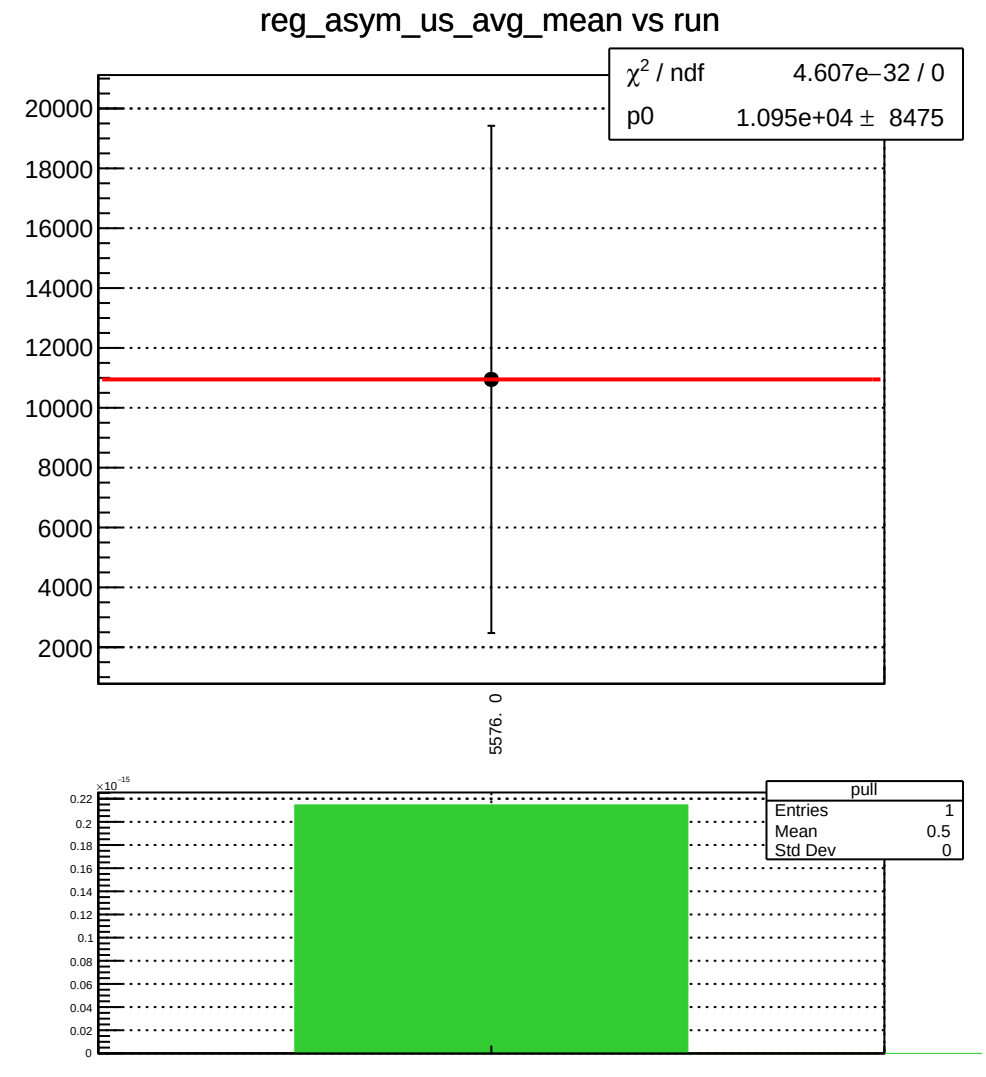
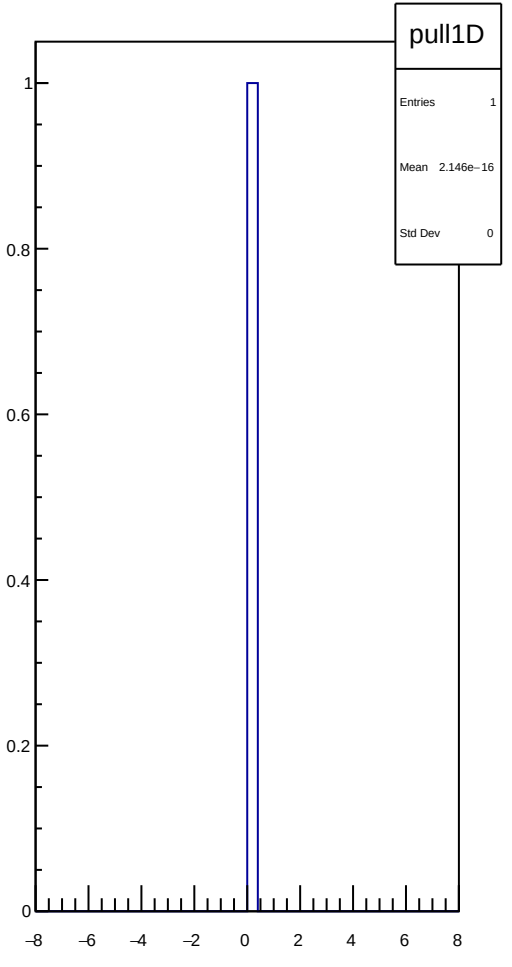
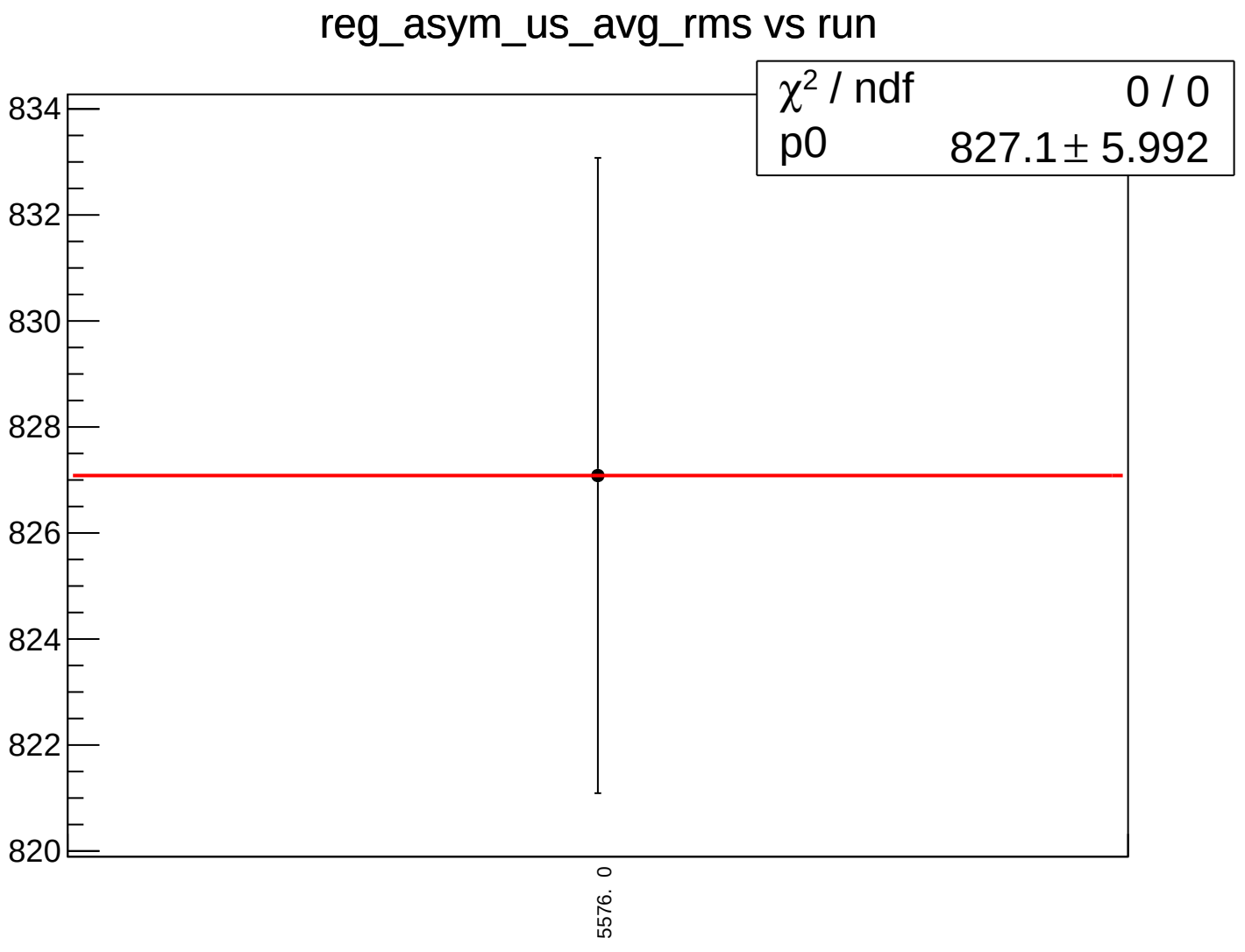
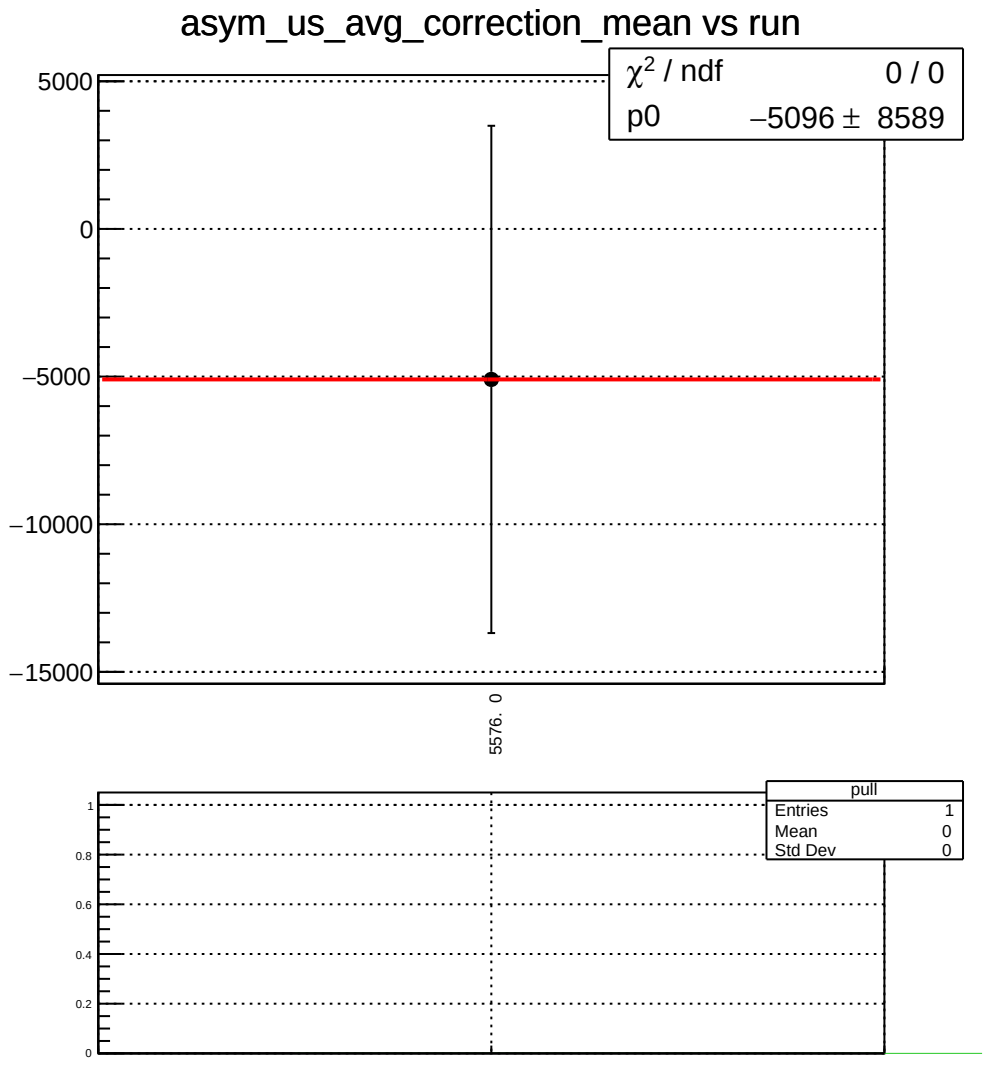
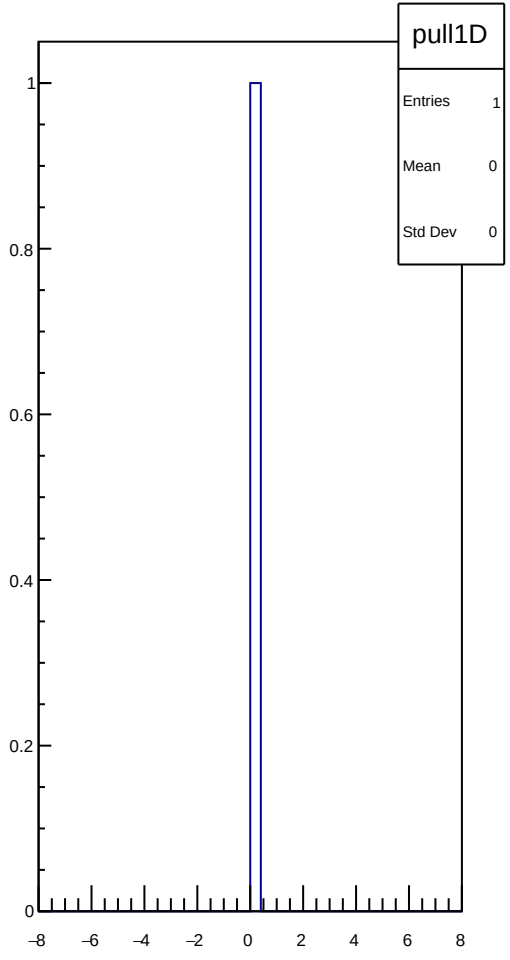
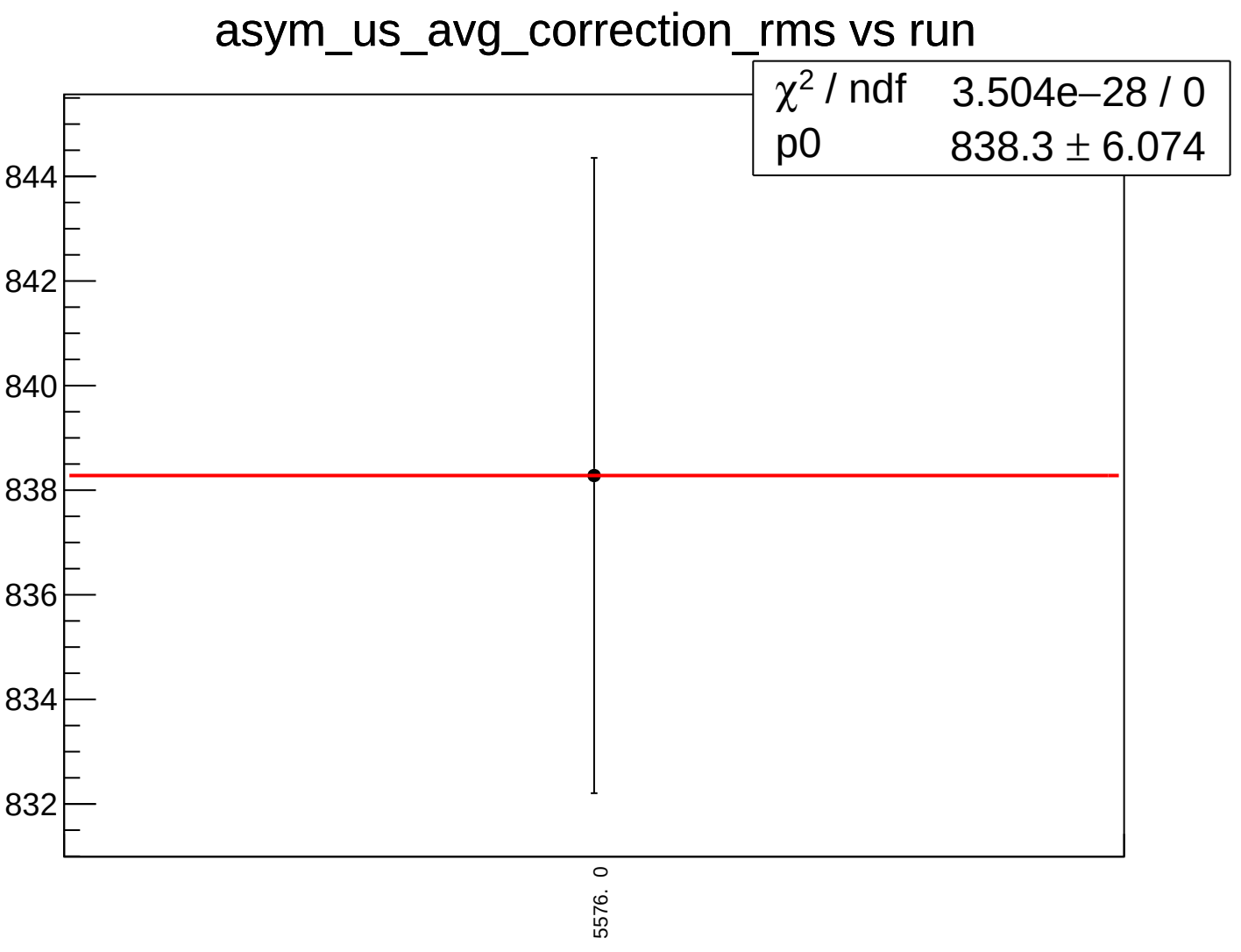

reg_asym_us_avg_mean vs run
χ² / ndf 4.607e−32 / 0
p0 1.095e+04 ± 8475
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
5576. 0
×10⁻¹⁵
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

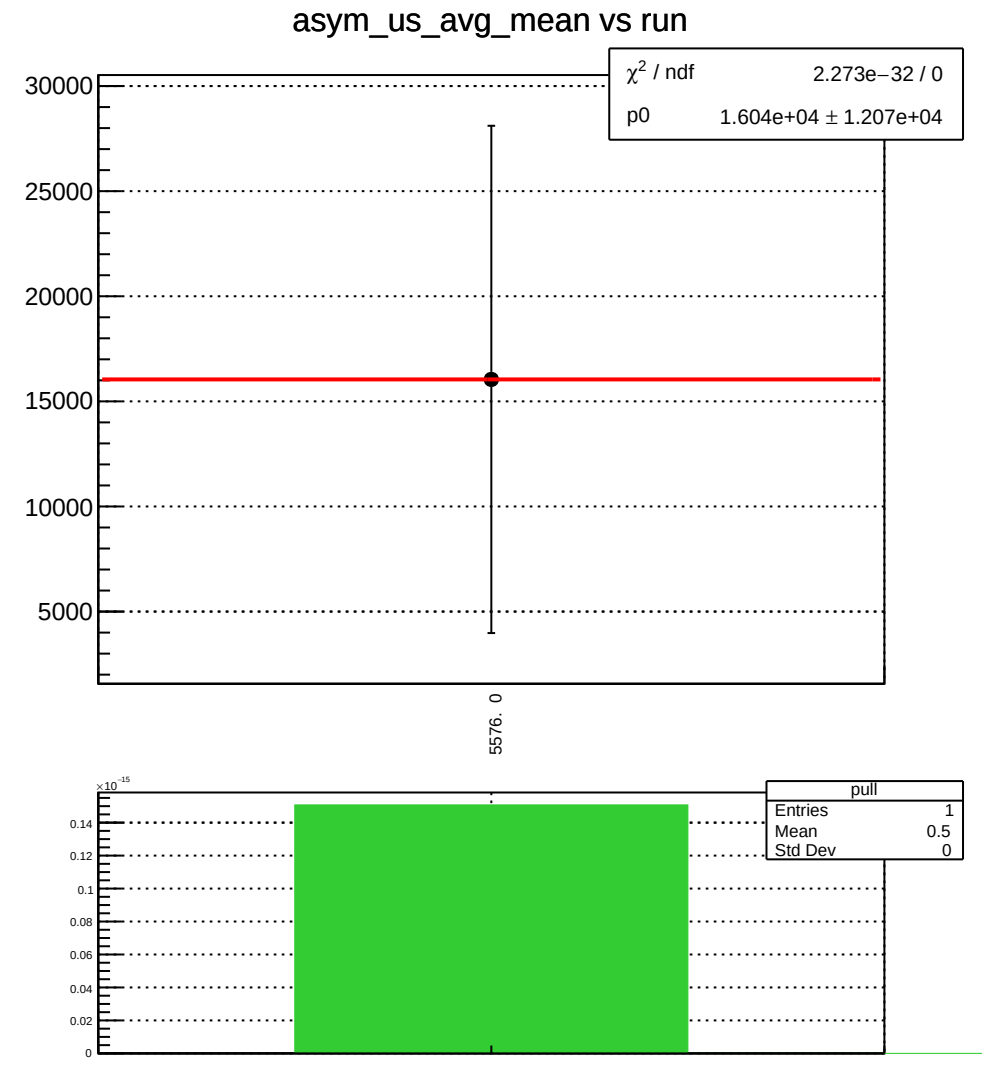

pull1D
Entries 1
Mean 2.146e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

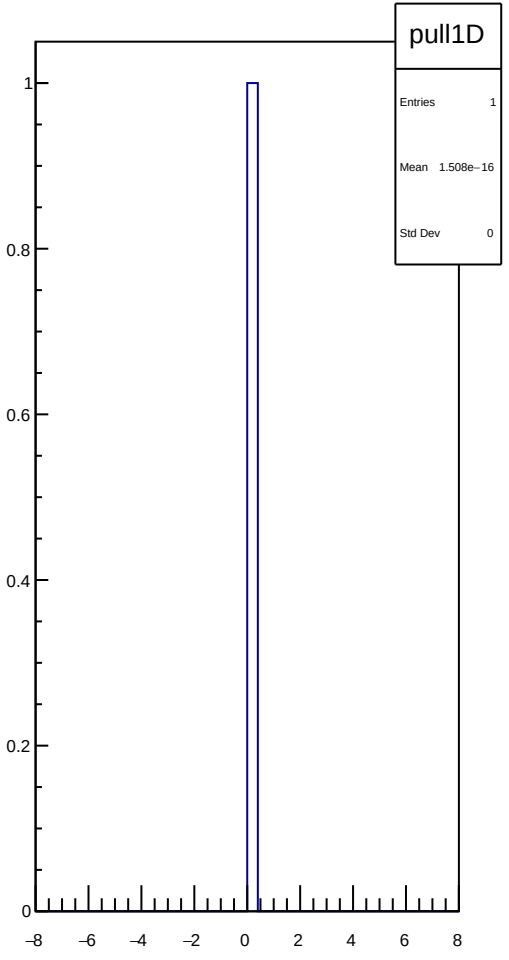

reg_asym_us_avg_rms vs run
χ^2 / ndf 0 / 0
p0 827.1 ± 5.992
834
832
830
828
826
824
822
820
5576. 0

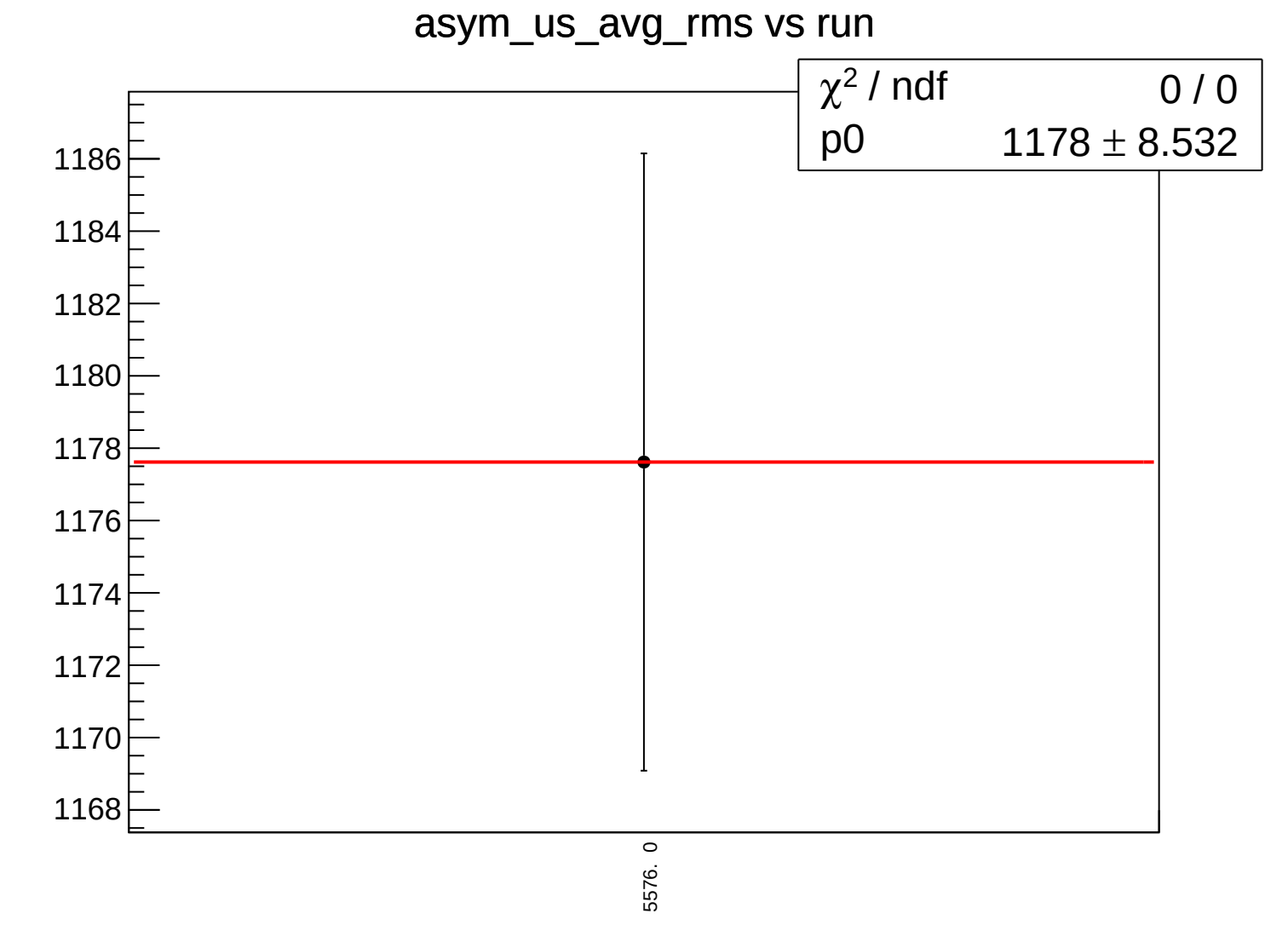

asym_us_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −5096 ± 8589
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

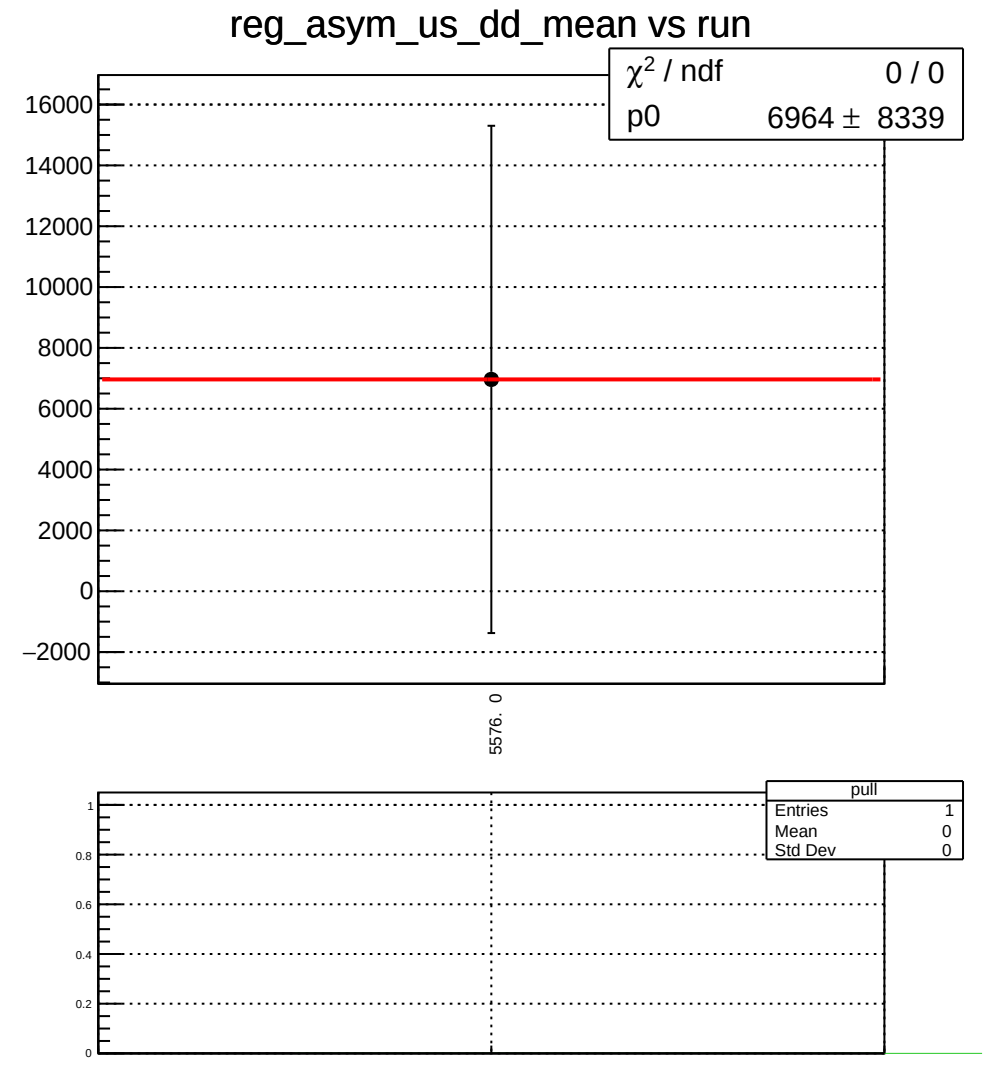

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

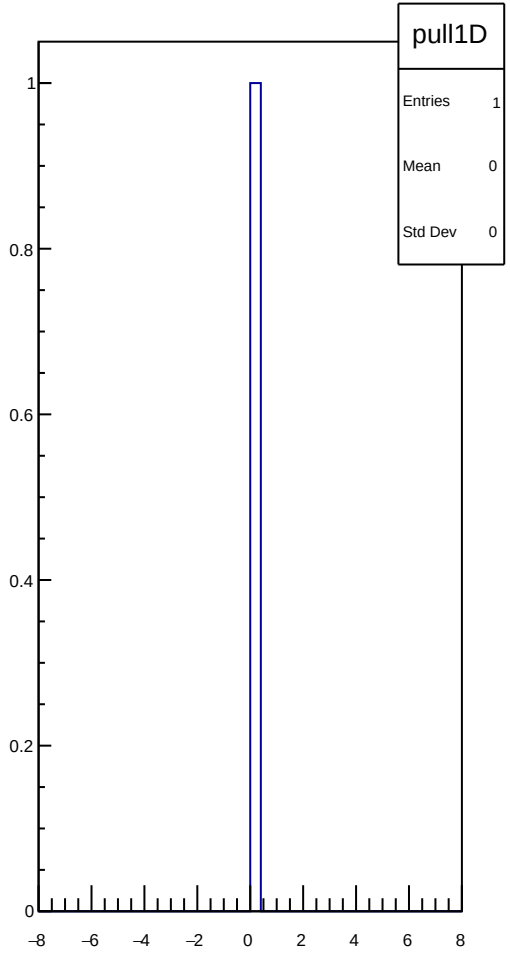

asym_us_avg_correction_rms vs run
χ^2 / ndf 3.504e−28 / 0
p0 838.3 ± 6.074
844
842
840
838
836
834
832
5576. 0

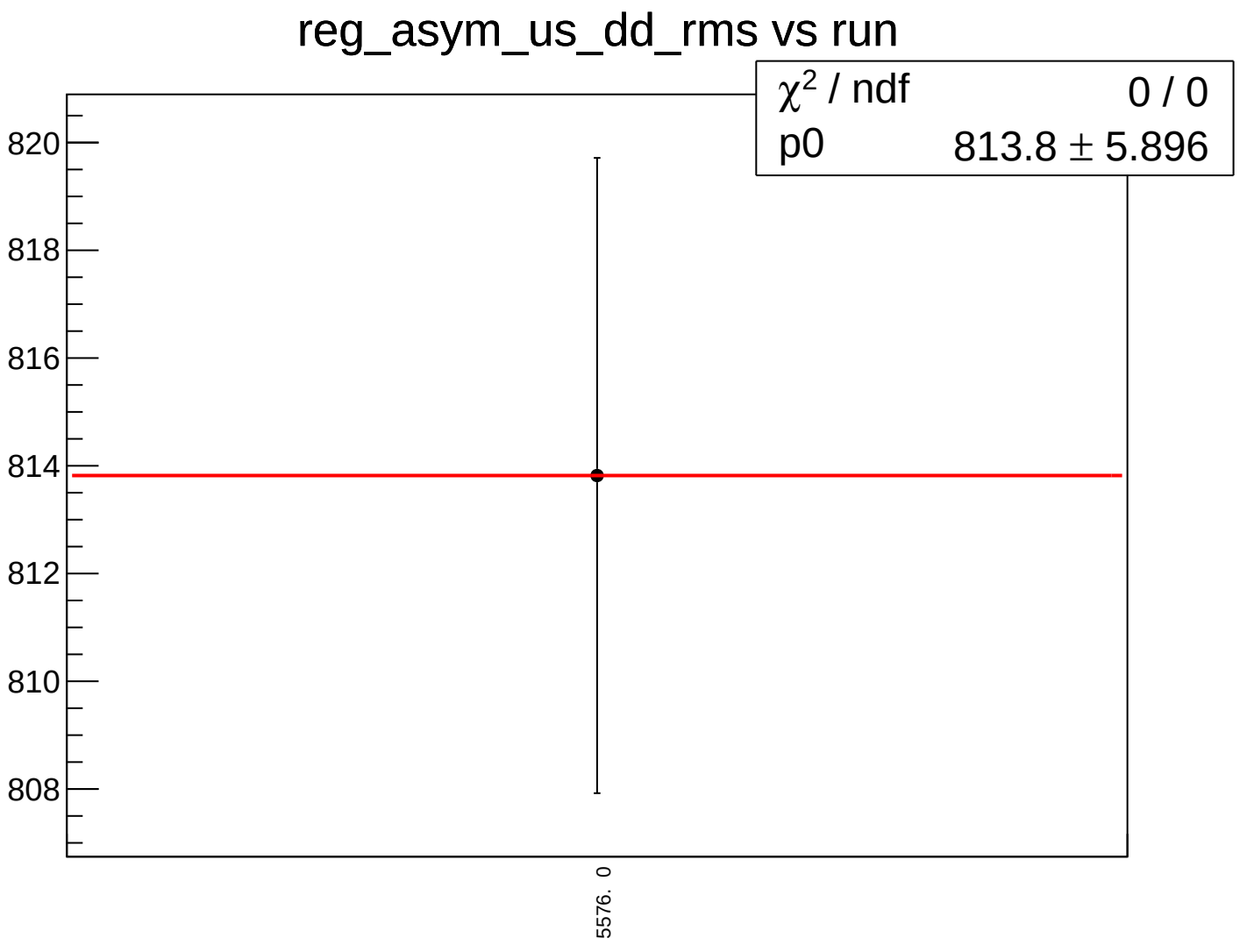

asym_us_avg_mean vs run
χ² / ndf 2.273e−32 / 0
p0 1.604e+04 ± 1.207e+04
30000
25000
20000
15000
10000
5000
5576. 0
×10⁻¹⁵
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

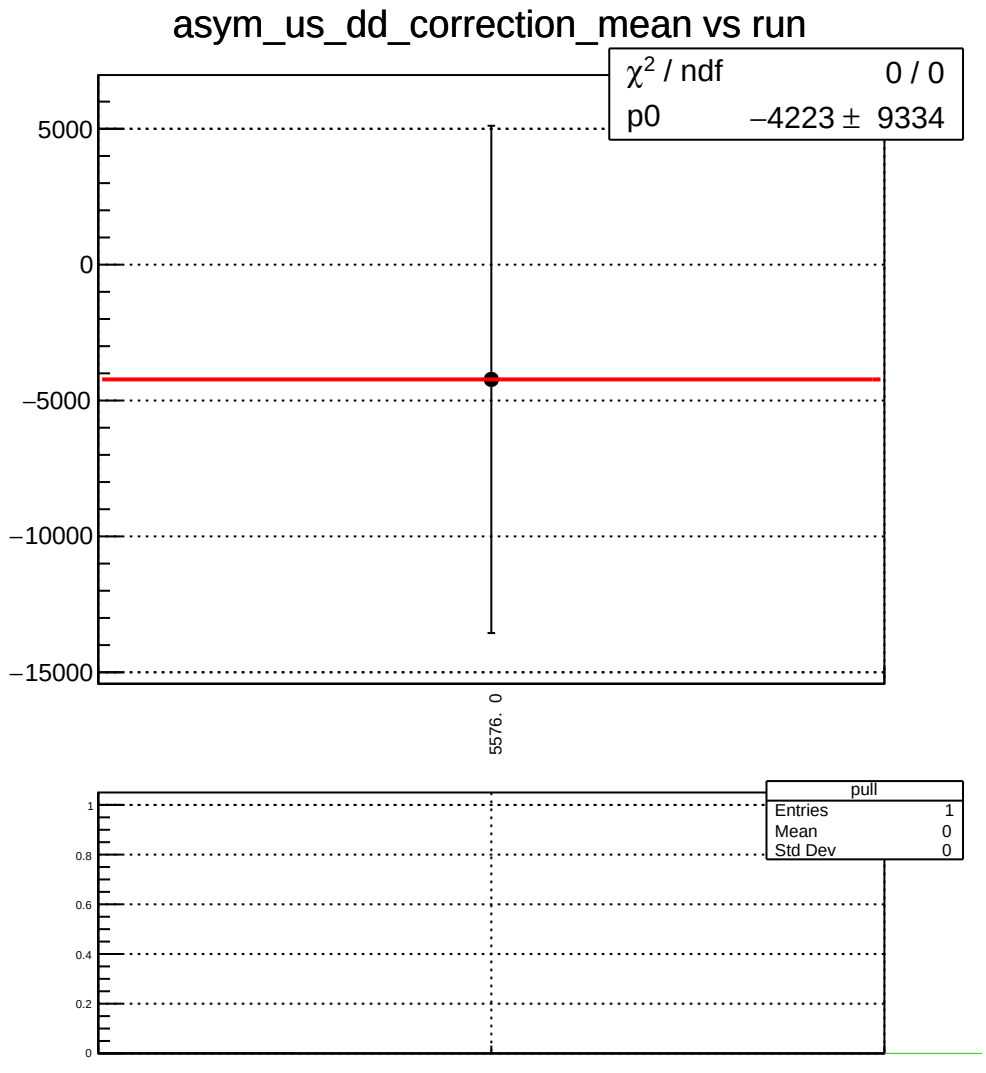

pull1D
Entries 1
Mean 1.508e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

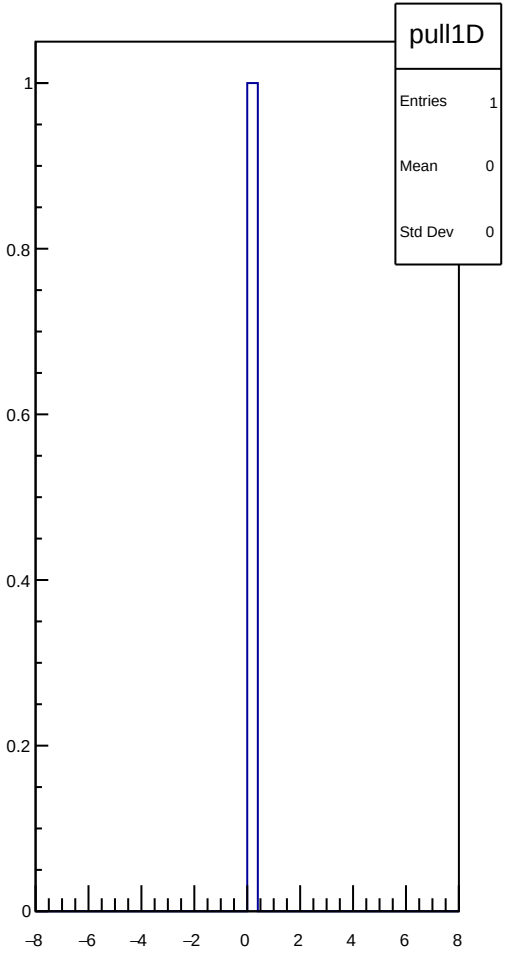

asym_us_avg_rms vs run
χ² / ndf 0 / 0
p0 1178 ± 8.532
1186
1184
1182
1180
1178
1176
1174
1172
1170
1168
5576. 0

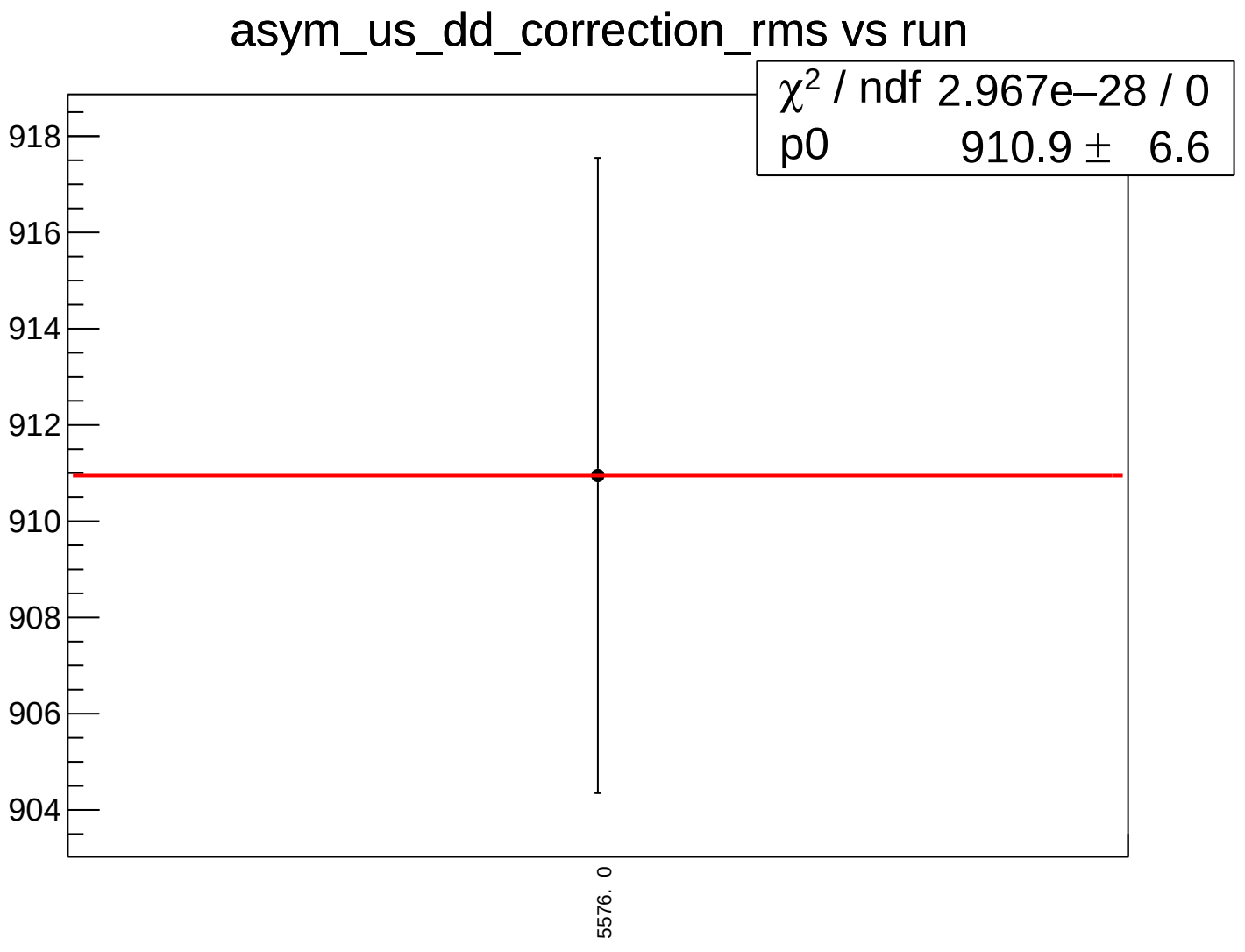

reg_asym_us_dd_mean vs run
χ² / ndf 0 / 0
p0 6964 ± 8339
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

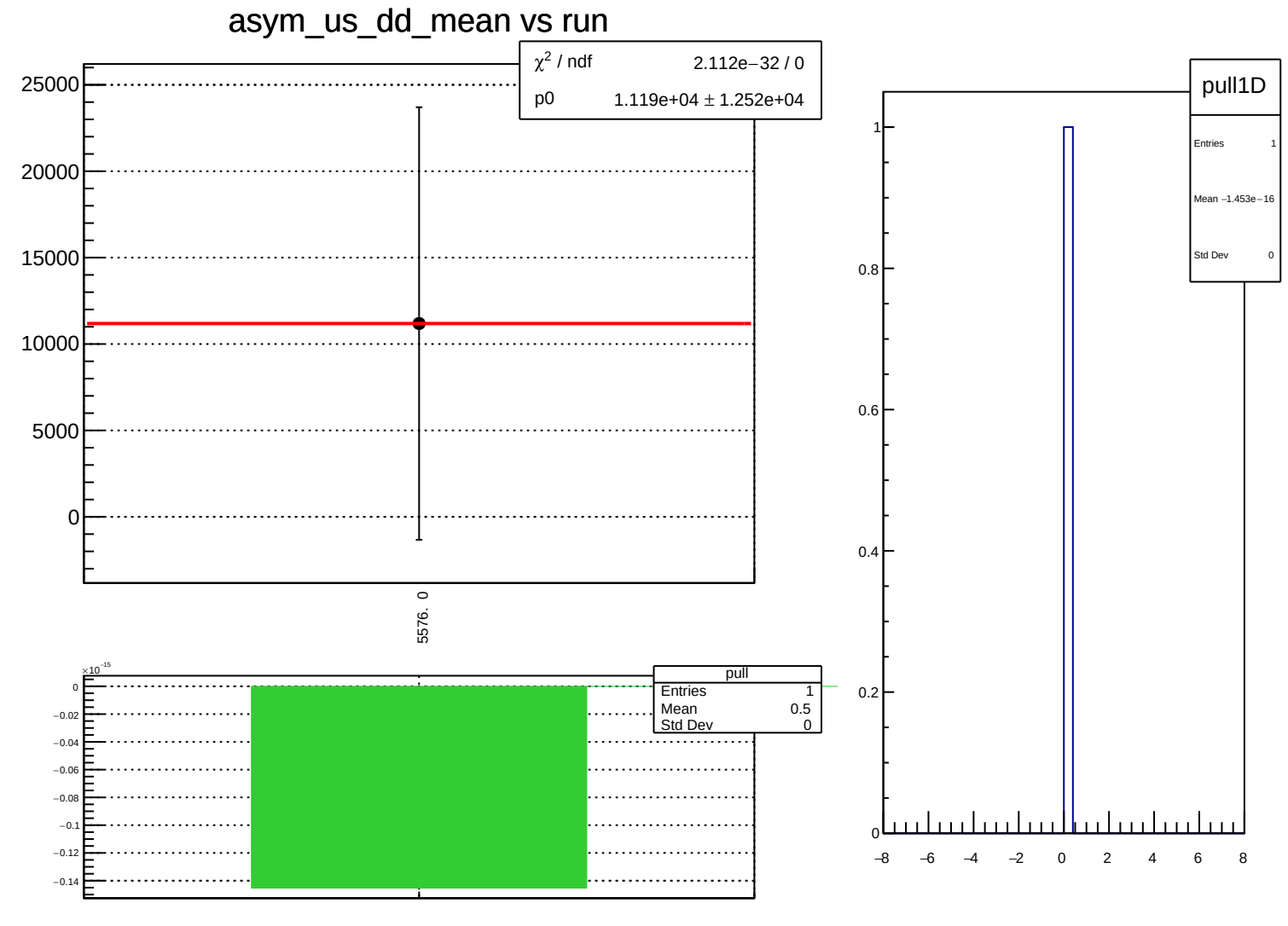

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

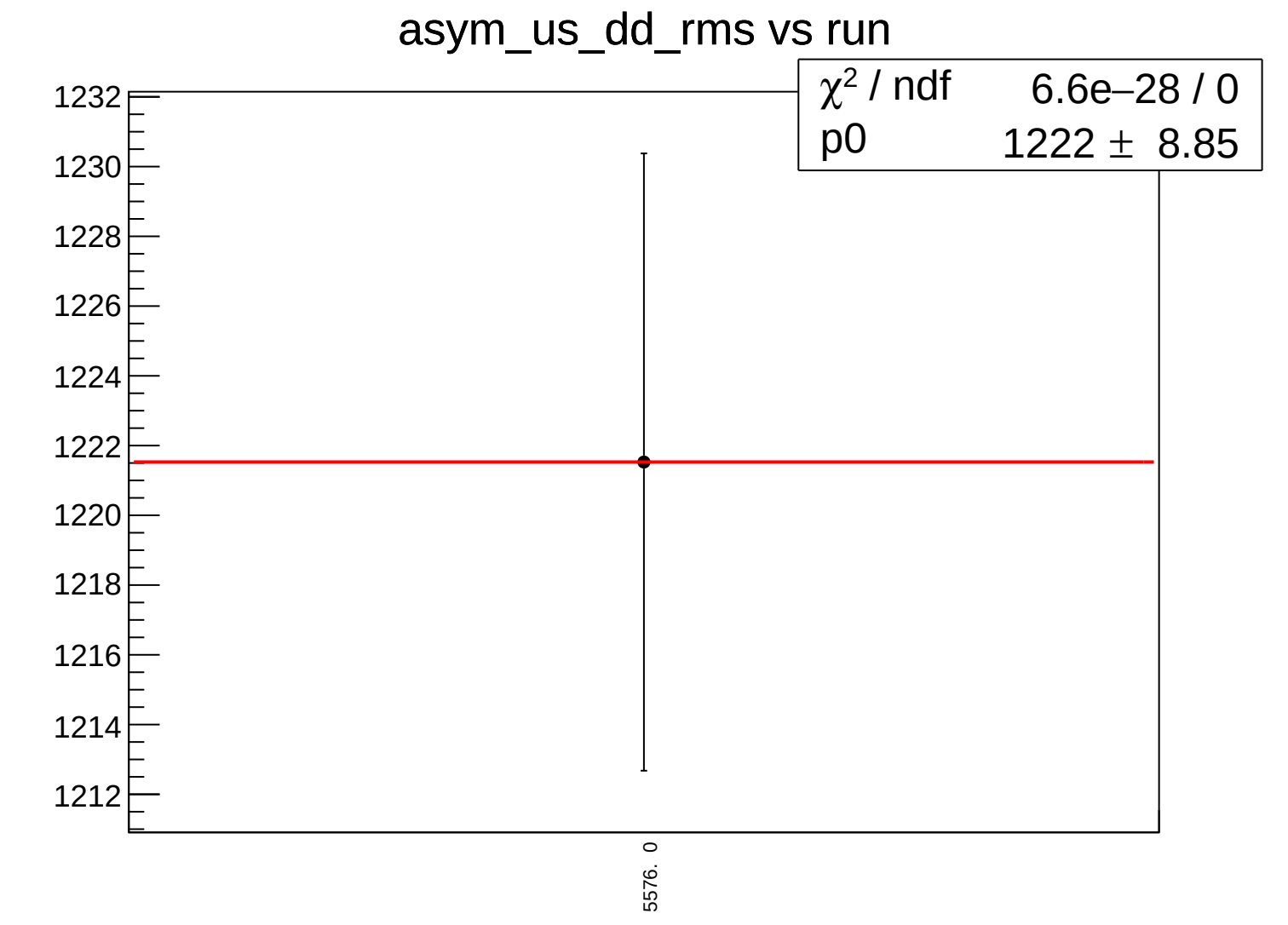

reg_asym_us_dd_rms vs run
χ² / ndf 0 / 0
p0 813.8 ± 5.896
820
818
816
814
812
810
808
5576. 0

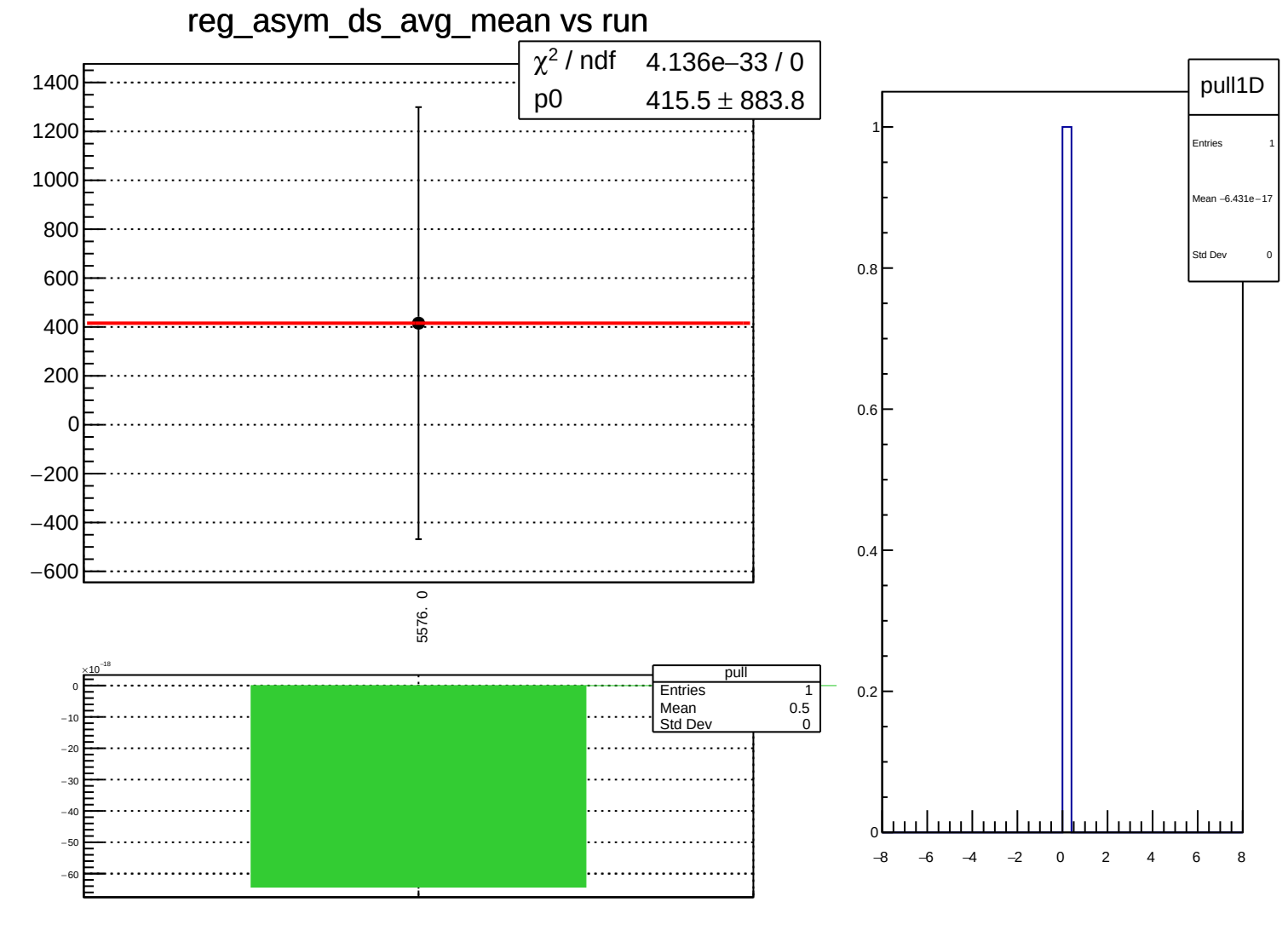

asym_us_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −4223 ± 9334
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

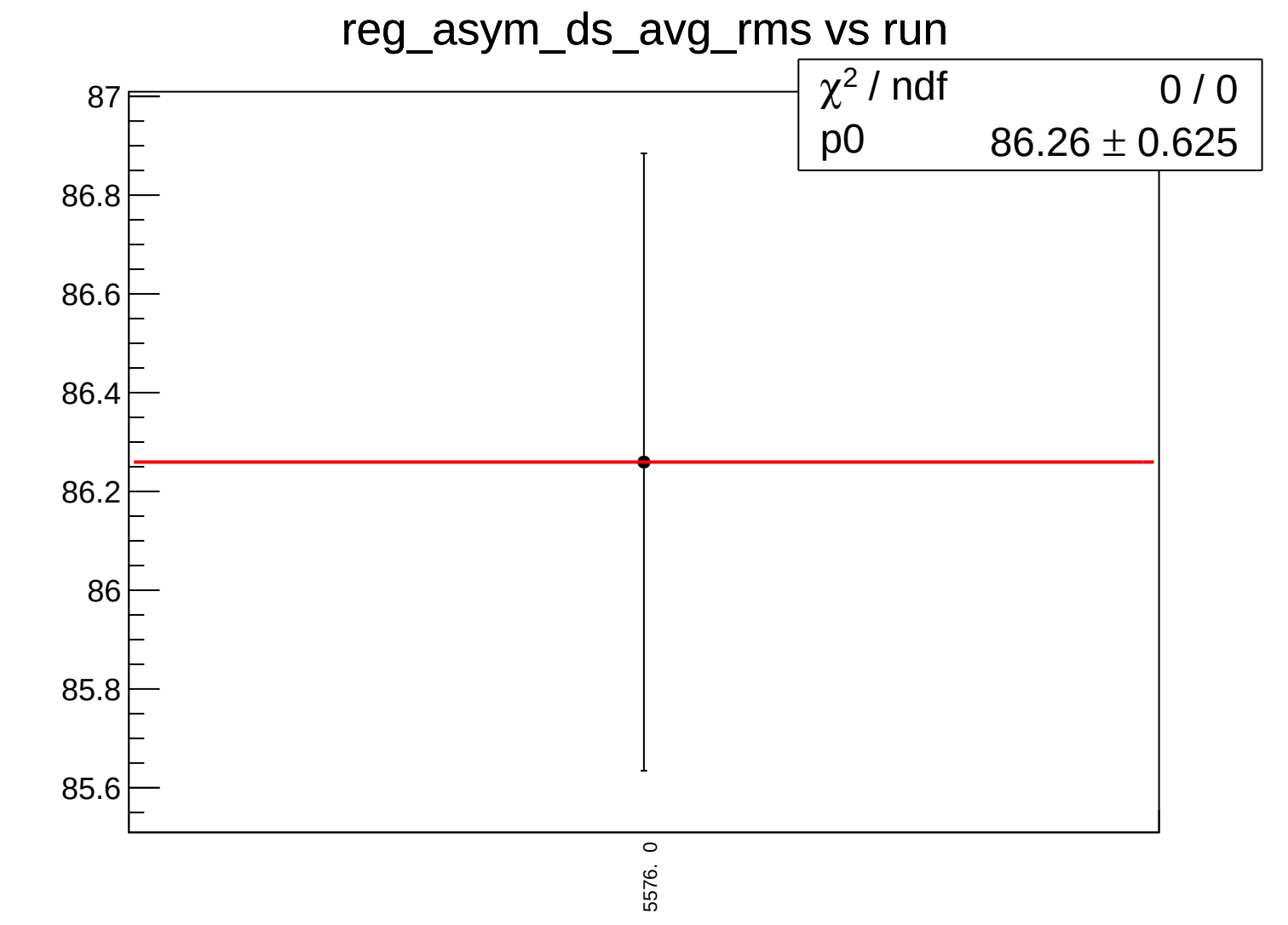

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

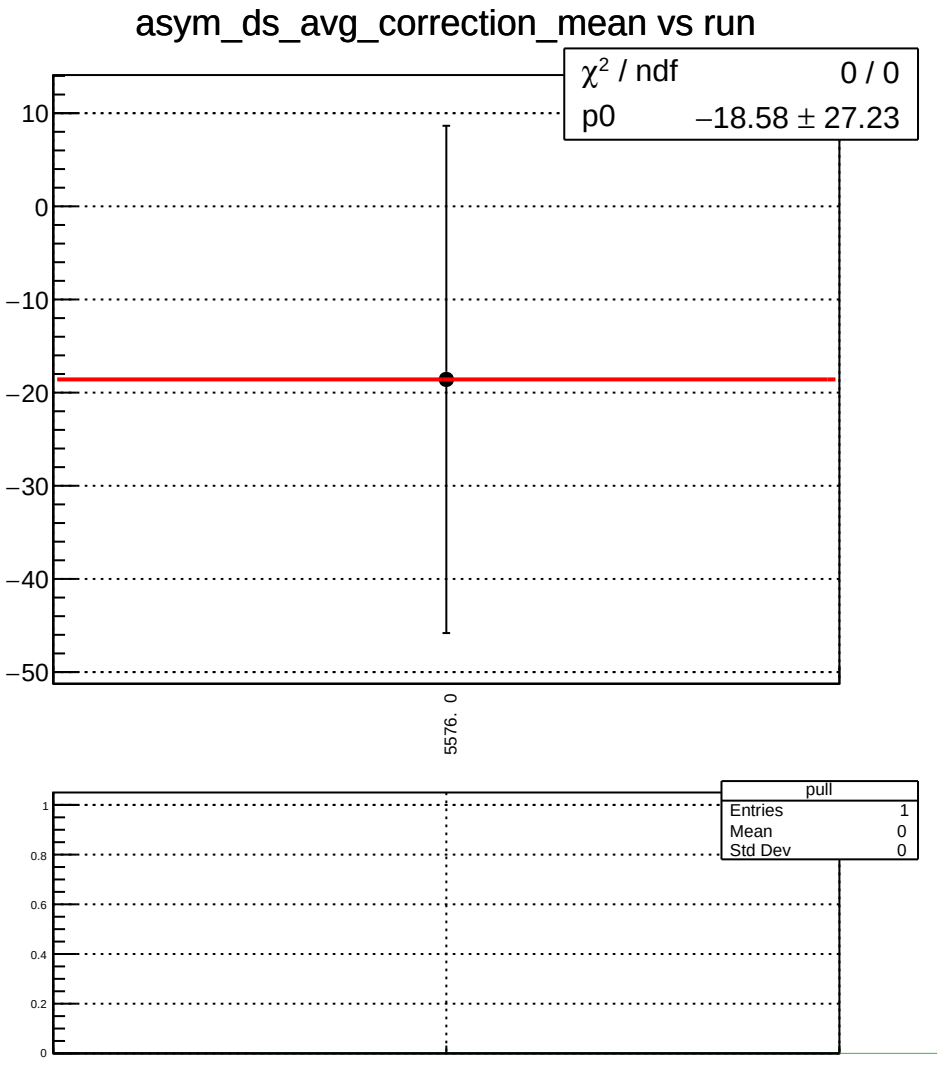

asym_us_dd_correction_rms vs run
χ² / ndf 2.967e–28 / 0
p0 910.9 ± 6.6
918
916
914
912
910
908
906
904
5576. 0

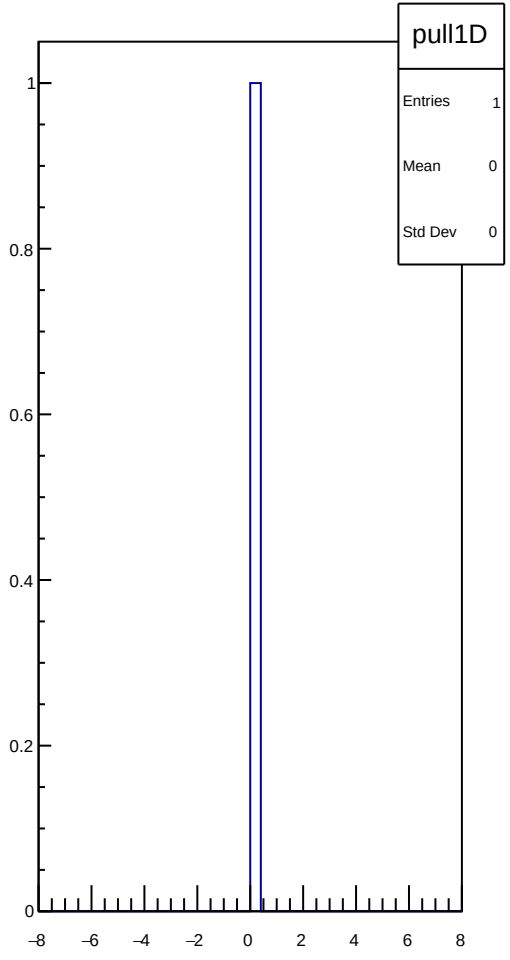

asym_us_dd_mean vs run
χ² / ndf 2.112e−32 / 0
p0 1.119e+04 ± 1.252e+04
25000
20000
15000
10000
5000
0
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.453e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

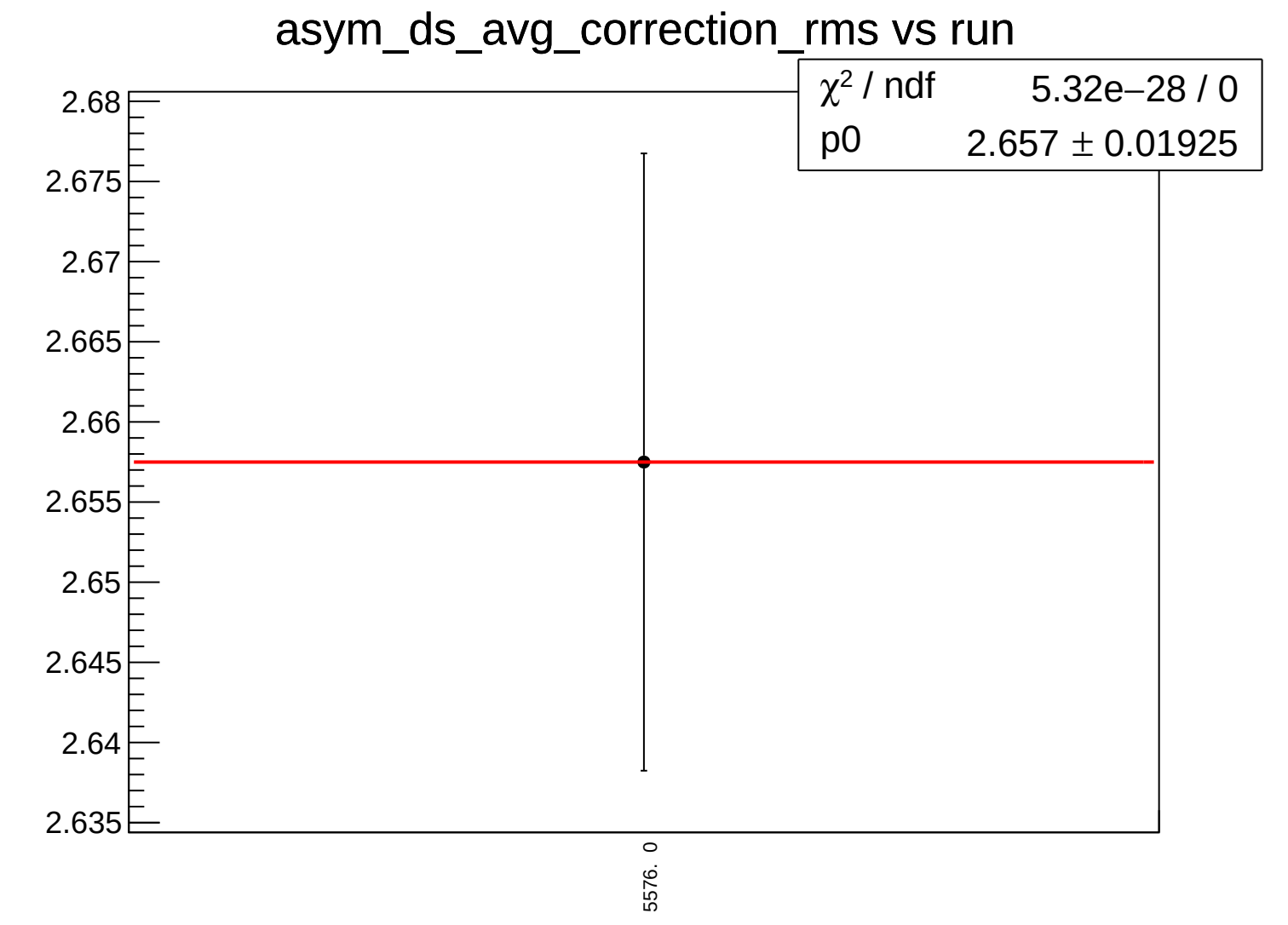

asym_us_dd_rms vs run
χ² / ndf 6.6e–28 / 0
p0 1222 ± 8.85
1232
1230
1228
1226
1224
1222
1220
1218
1216
1214
1212
5576. 0

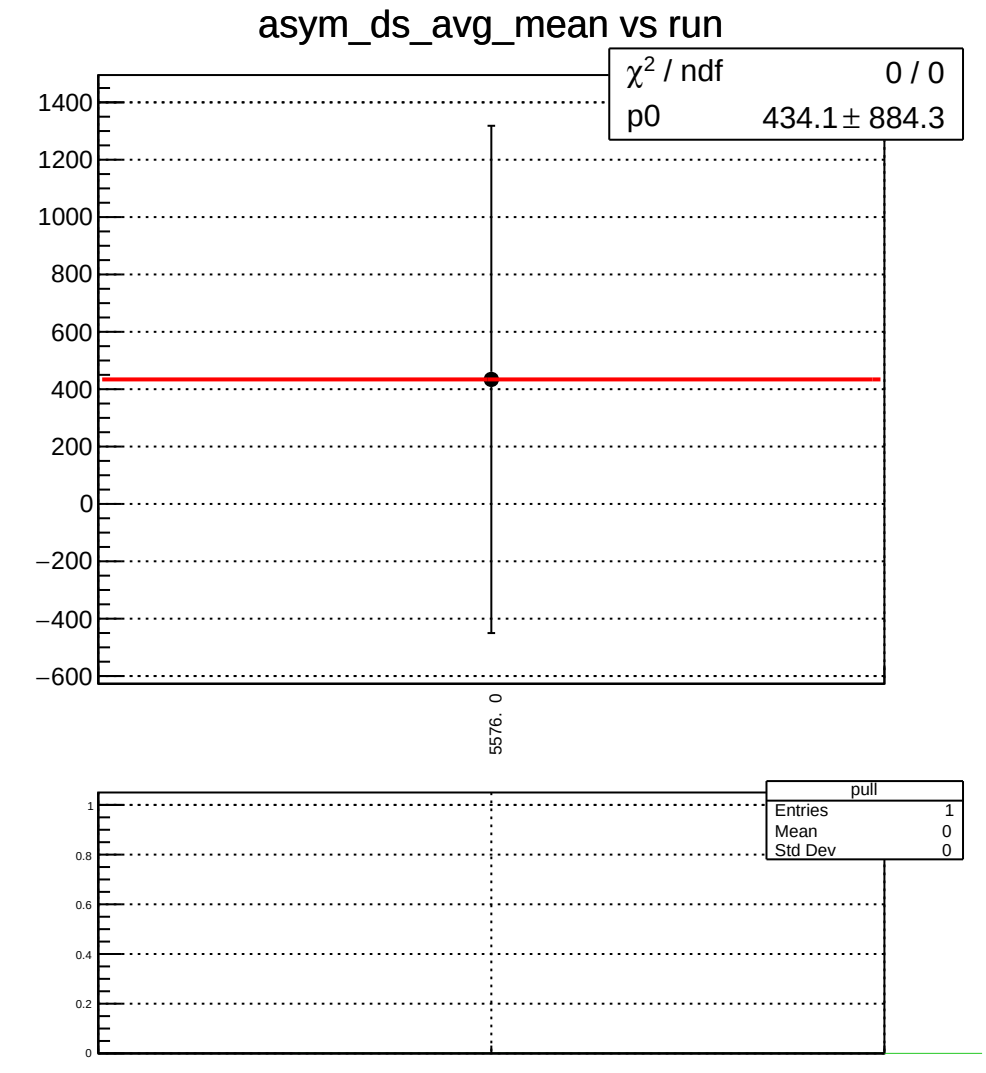

reg_asym_ds_avg_mean vs run
χ² / ndf 4.136e−33 / 0
p0 415.5 ± 883.8
1400
1200
1000
800
600
400
200
0
−200
−400
−600
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.431e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

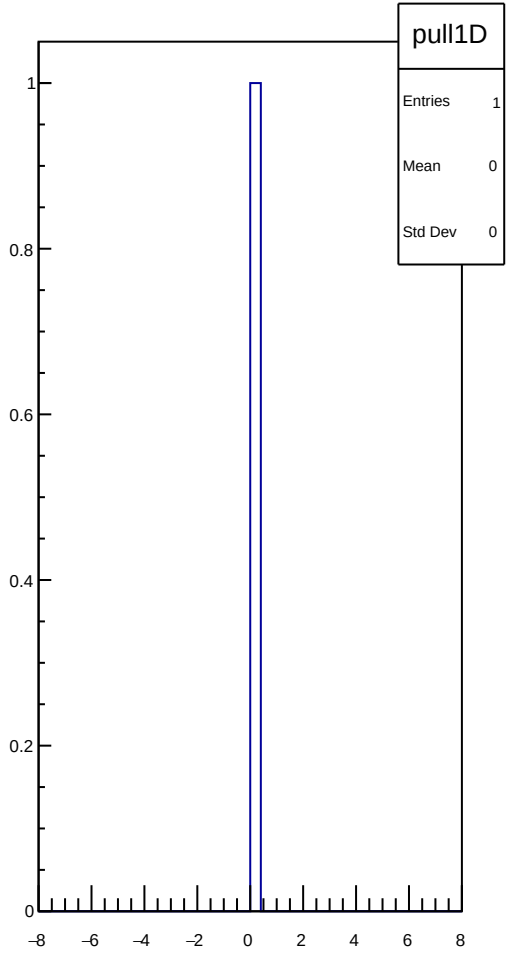

reg_asym_ds_avg_rms vs run
χ² / ndf 0 / 0
p0 86.26 ± 0.625
87
86.8
86.6
86.4
86.2
86
85.8
85.6
5576. 0

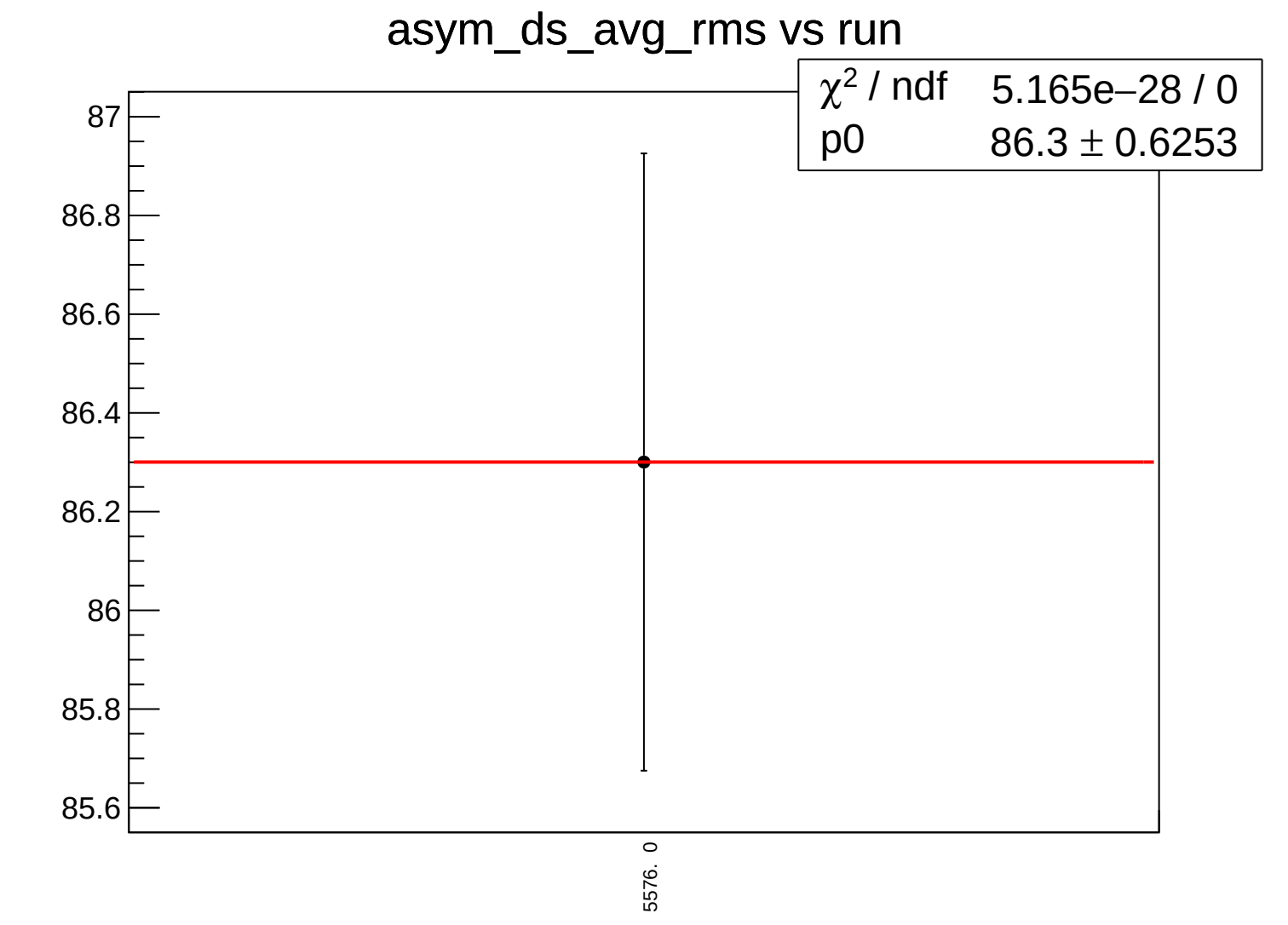

asym_ds_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −18.58 ± 27.23
10
0
−10
−20
−30
−40
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1

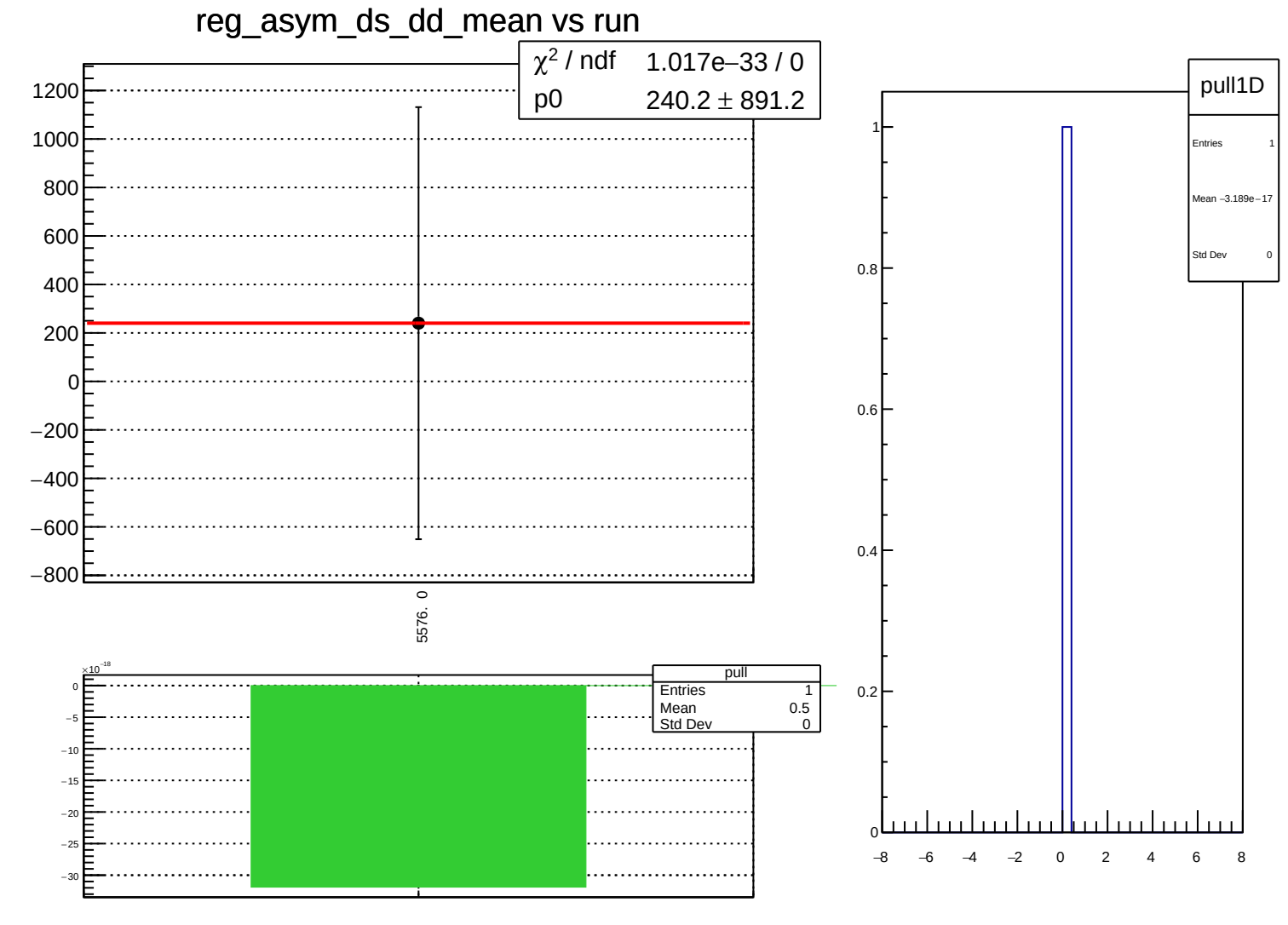

pull1D
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

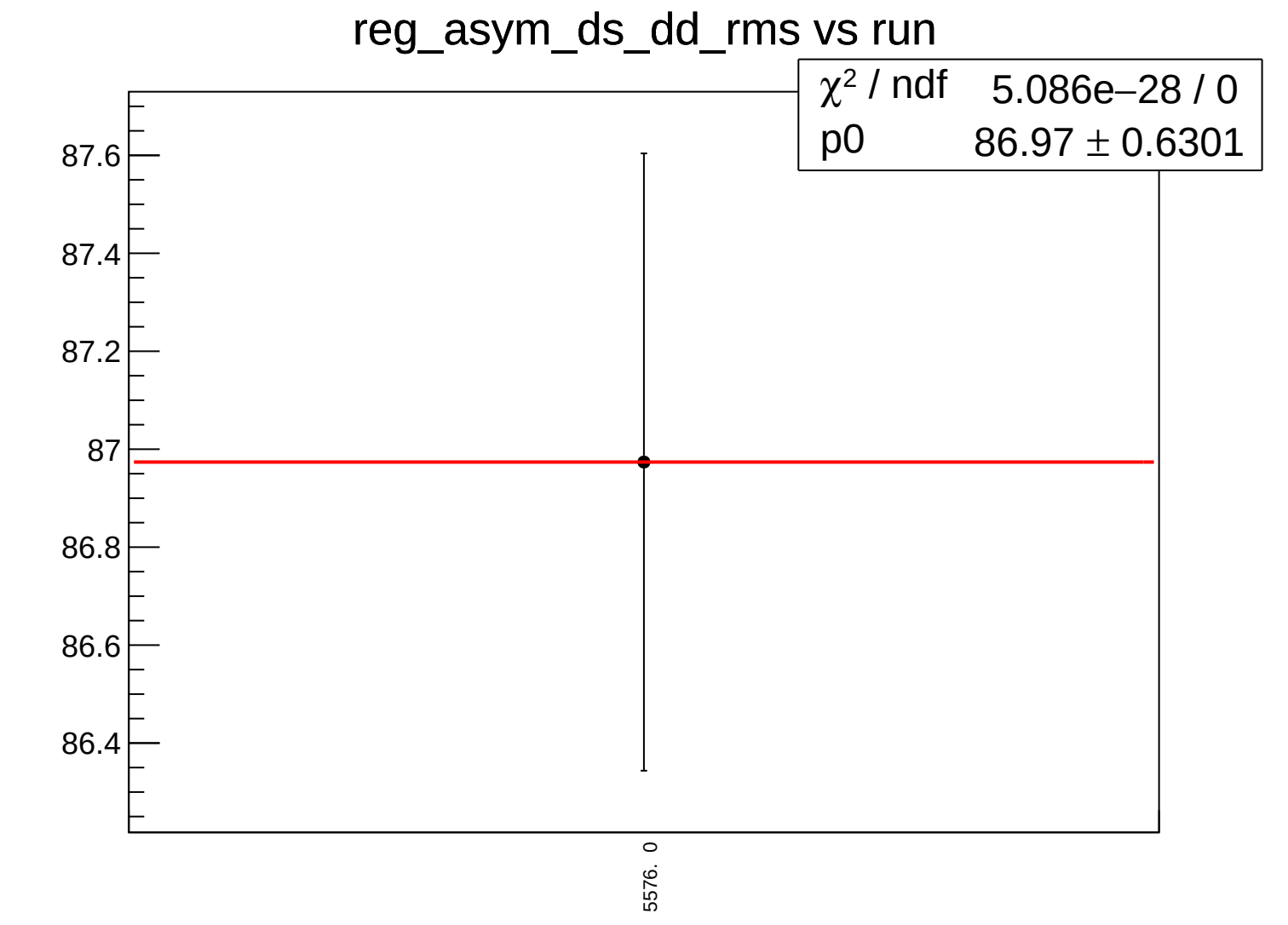

asym_ds_avg_correction_rms vs run
χ² / ndf 5.32e−28 / 0
p0 2.657 ± 0.01925
2.68
2.675
2.67
2.665
2.66
2.655
2.65
2.645
2.64
2.635
5576. 0

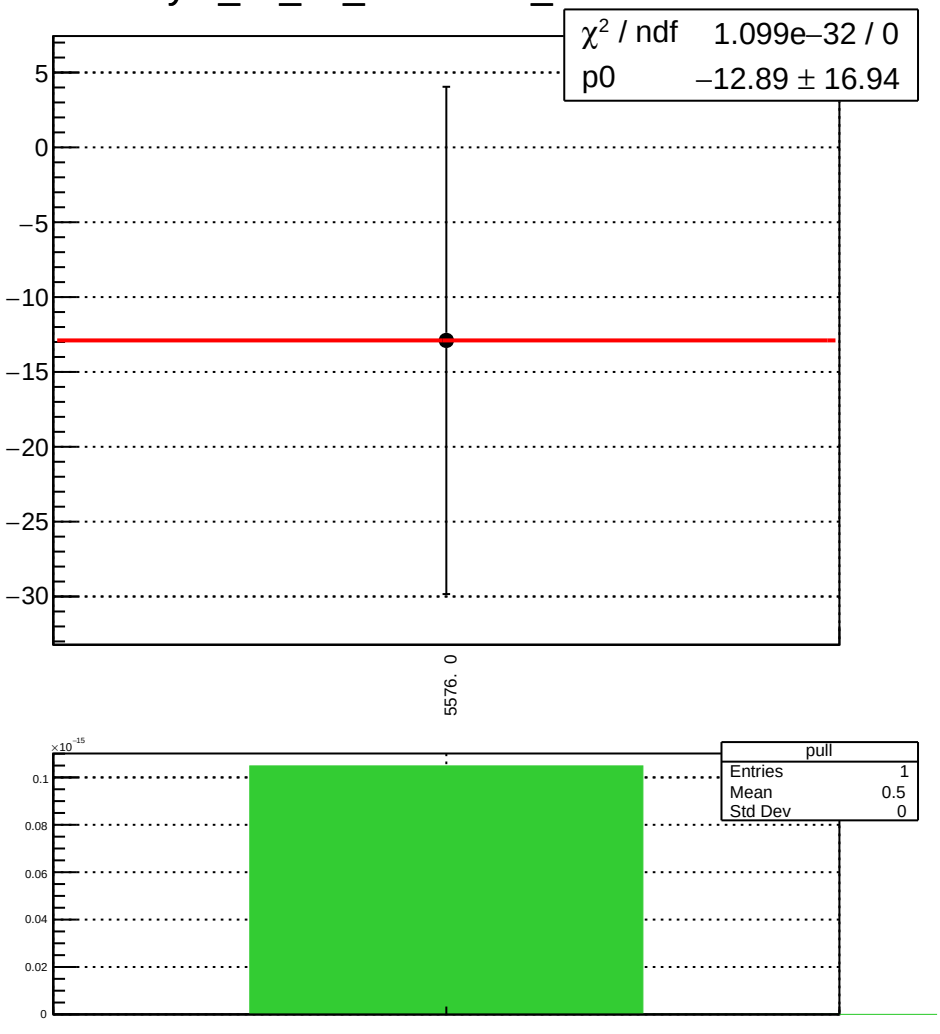

asym_ds_avg_mean vs run
χ² / ndf 0 / 0
p0 434.1 ± 884.3
1400
1200
1000
800
600
400
200
0
−200
−400
−600
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

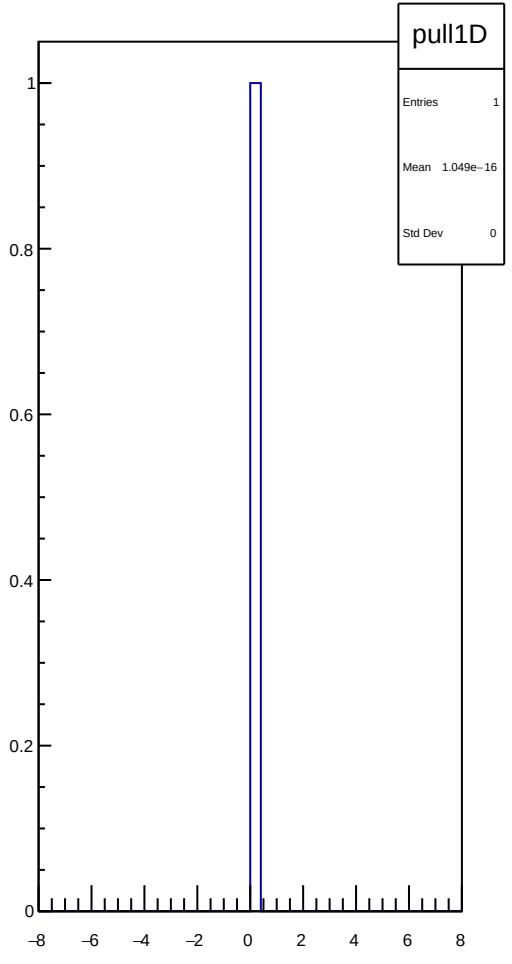

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

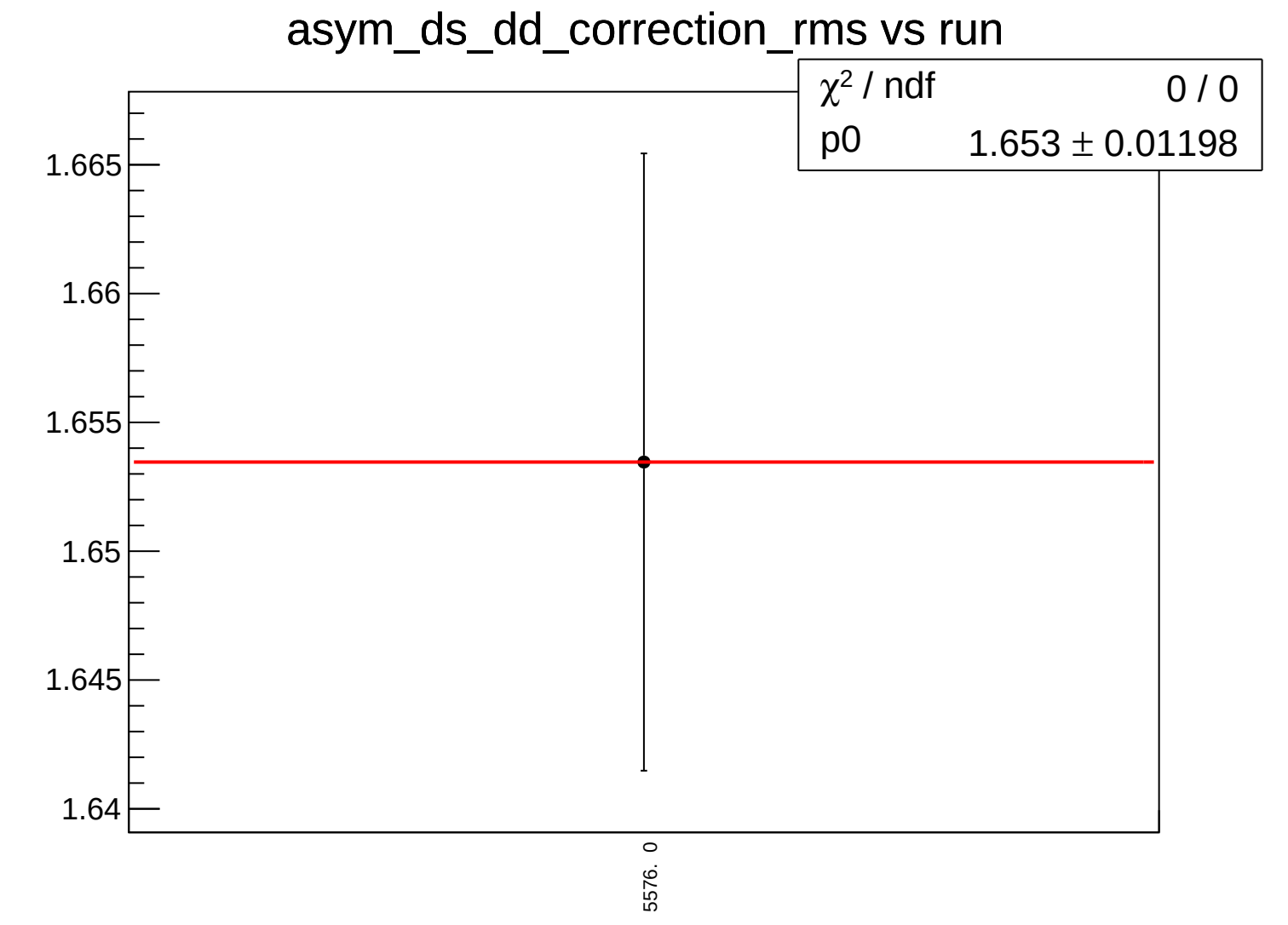

asym_ds_avg_rms vs run
χ² / ndf 5.165e−28 / 0
p0 86.3 ± 0.6253
87
86.8
86.6
86.4
86.2
86
85.8
85.6
5576. 0

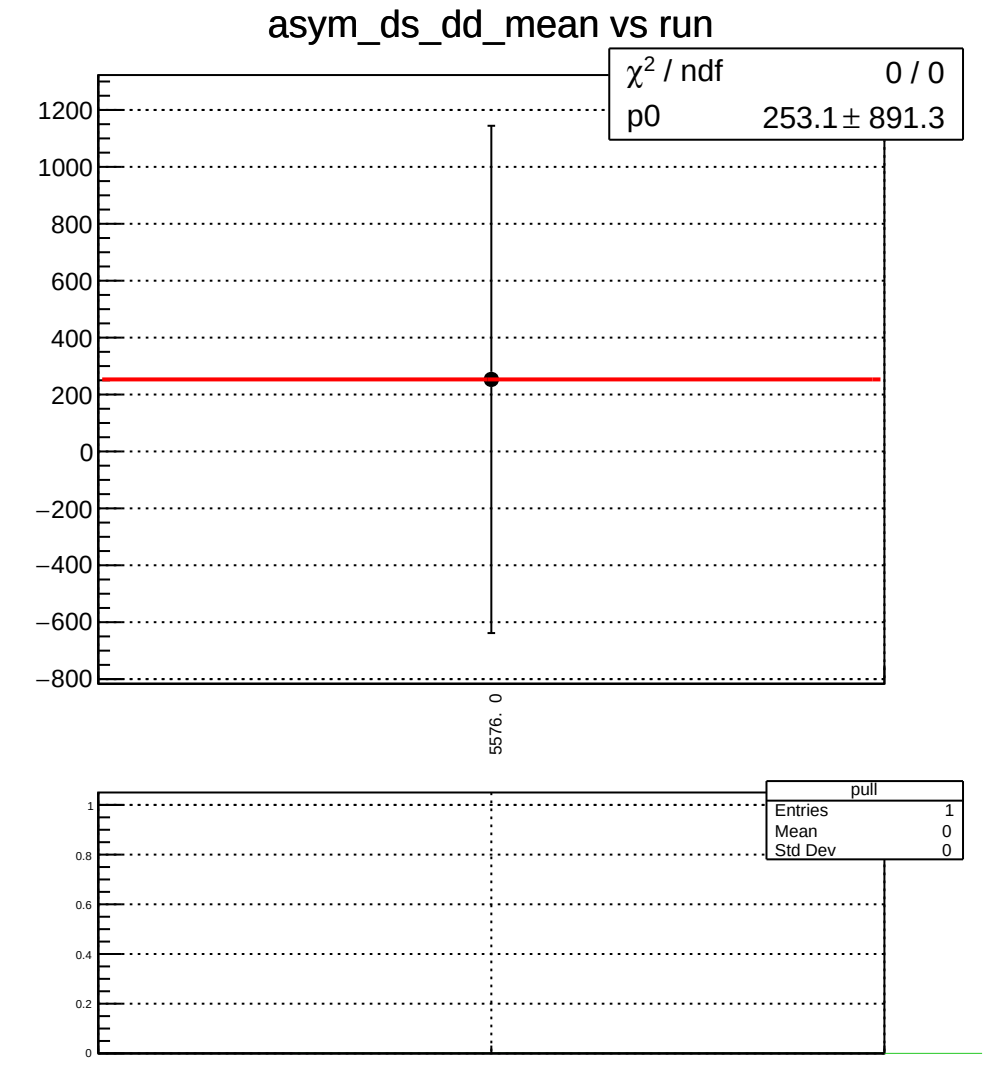

reg_asym_ds_dd_mean vs run
χ² / ndf 1.017e−33 / 0
p0 240.2 ± 891.2
1200
1000
800
600
400
200
0
−200
−400
−600
−800
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.189e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

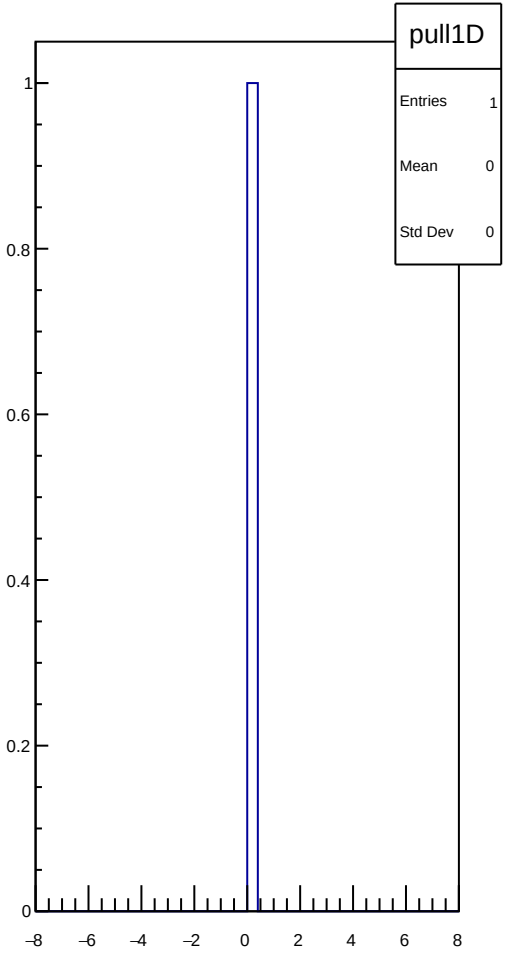

reg_asym_ds_dd_rms vs run
χ² / ndf 5.086e−28 / 0
p0 86.97 ± 0.6301
87.6
87.4
87.2
87
86.8
86.6
86.4
5576. 0

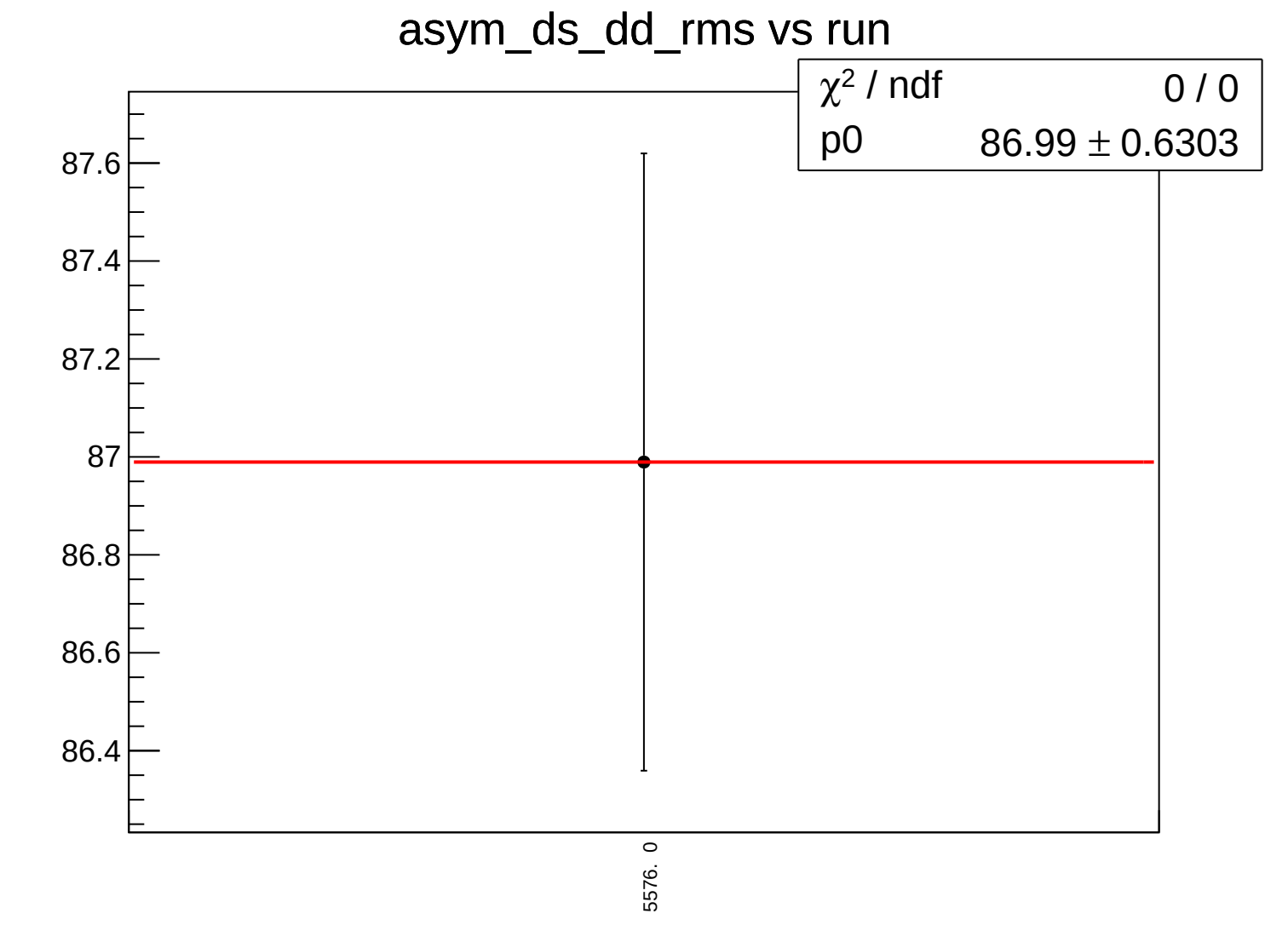

asym_ds_dd_correction_mean vs run
χ² / ndf 1.099e−32 / 0
p0 −12.89 ± 16.94
5
0
−5
−10
−15
−20
−25
−30
5576. 0
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

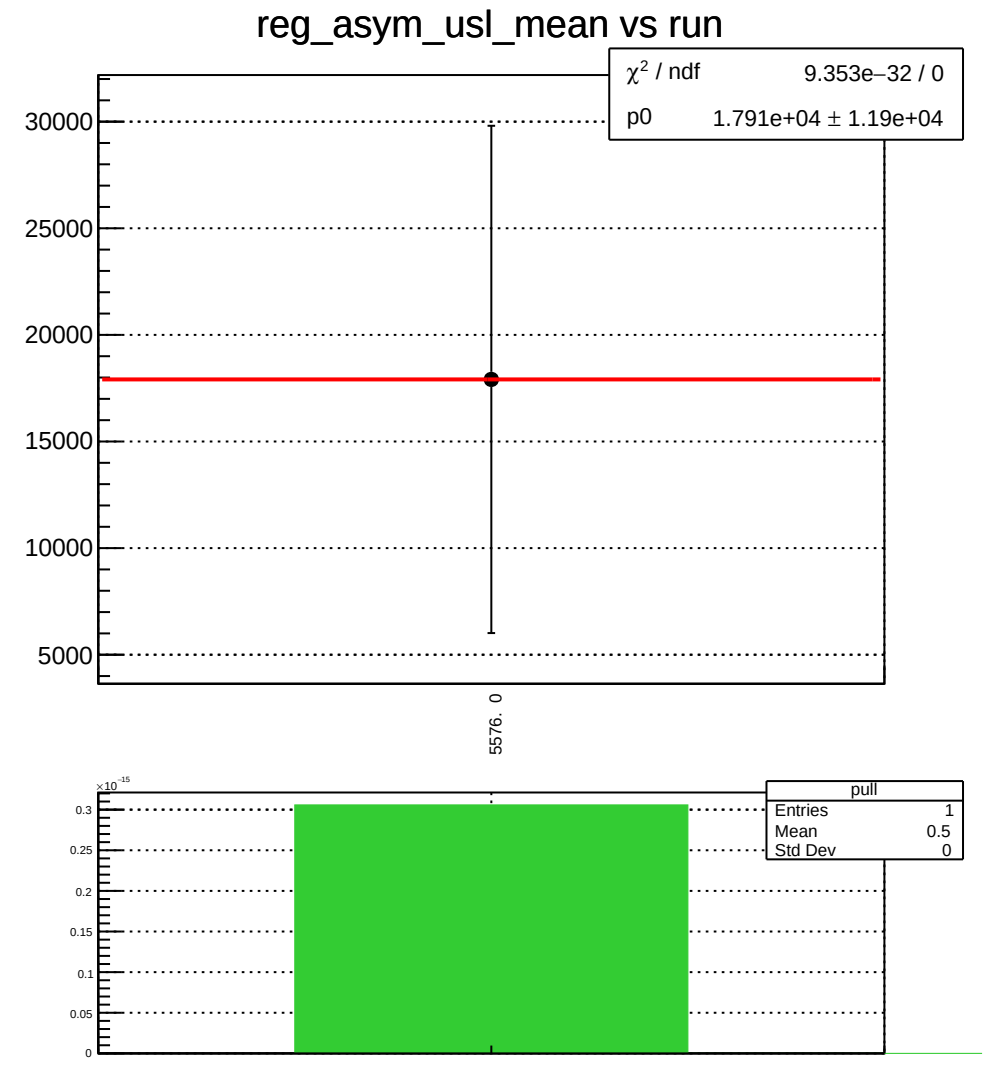

pull1D
Entries 1
Mean 1.049e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

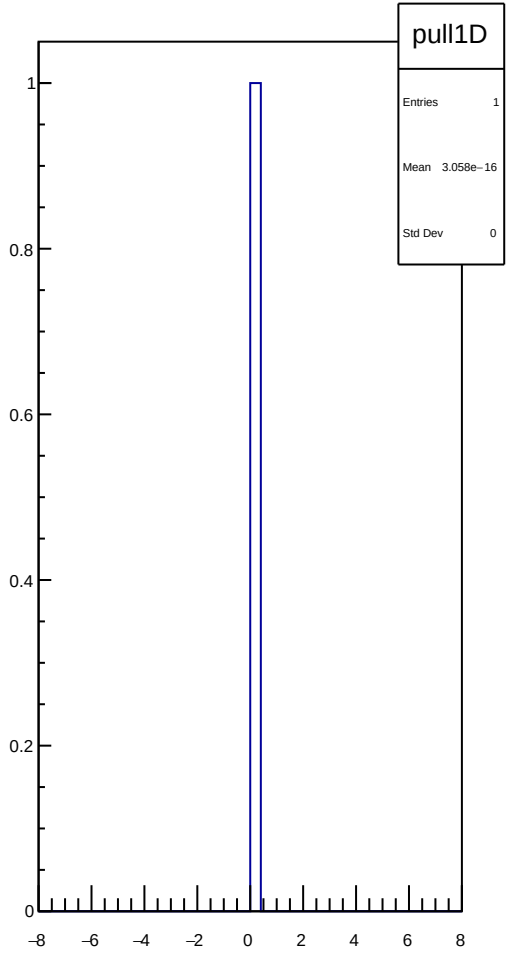

asym_ds_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 1.653 ± 0.01198
1.665
1.66
1.655
1.65
1.645
1.64
5576. 0

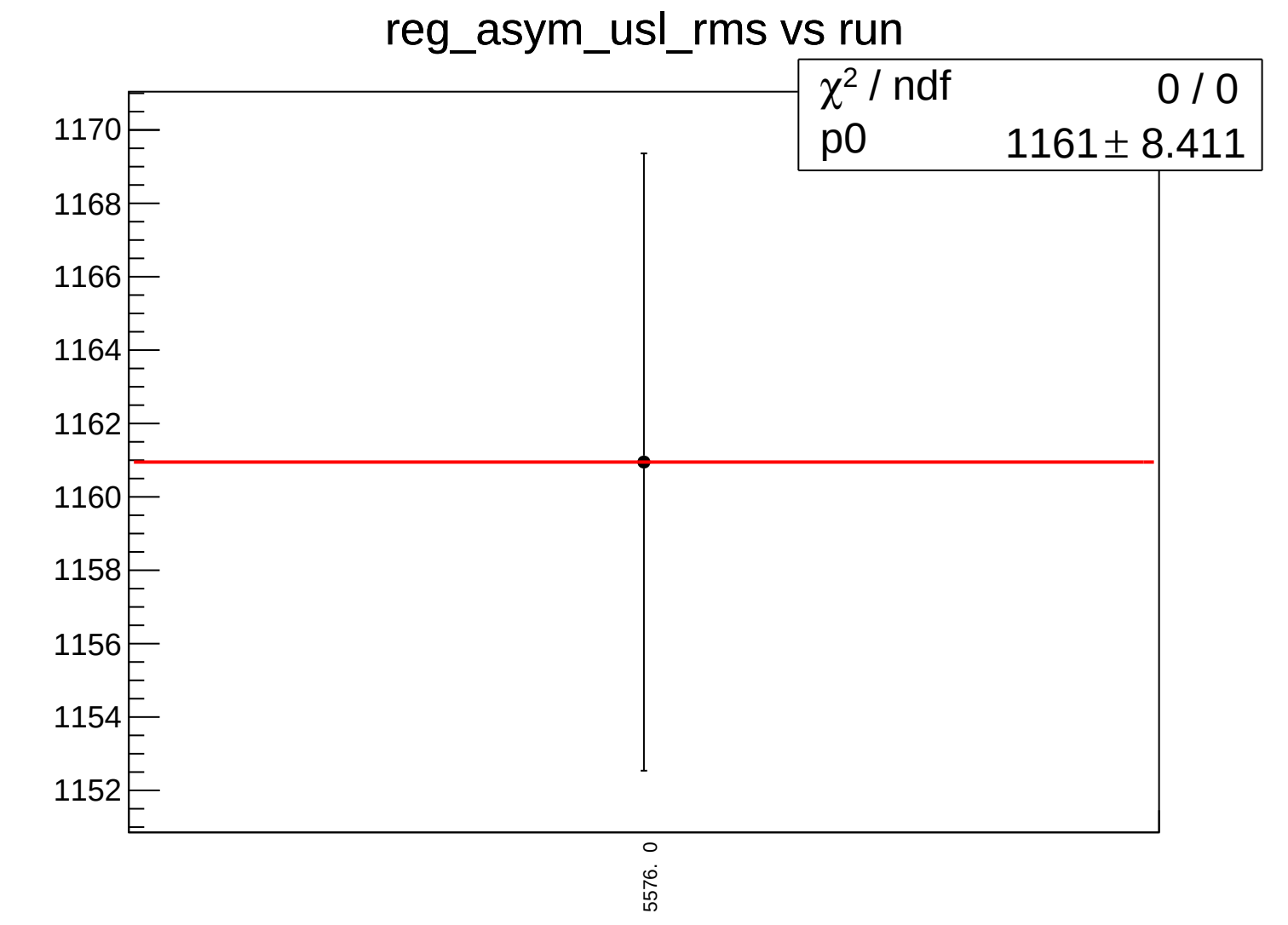

asym_ds_dd_mean vs run
χ² / ndf 0 / 0
p0 253.1 ± 891.3
1200
1000
800
600
400
200
0
−200
−400
−600
−800
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

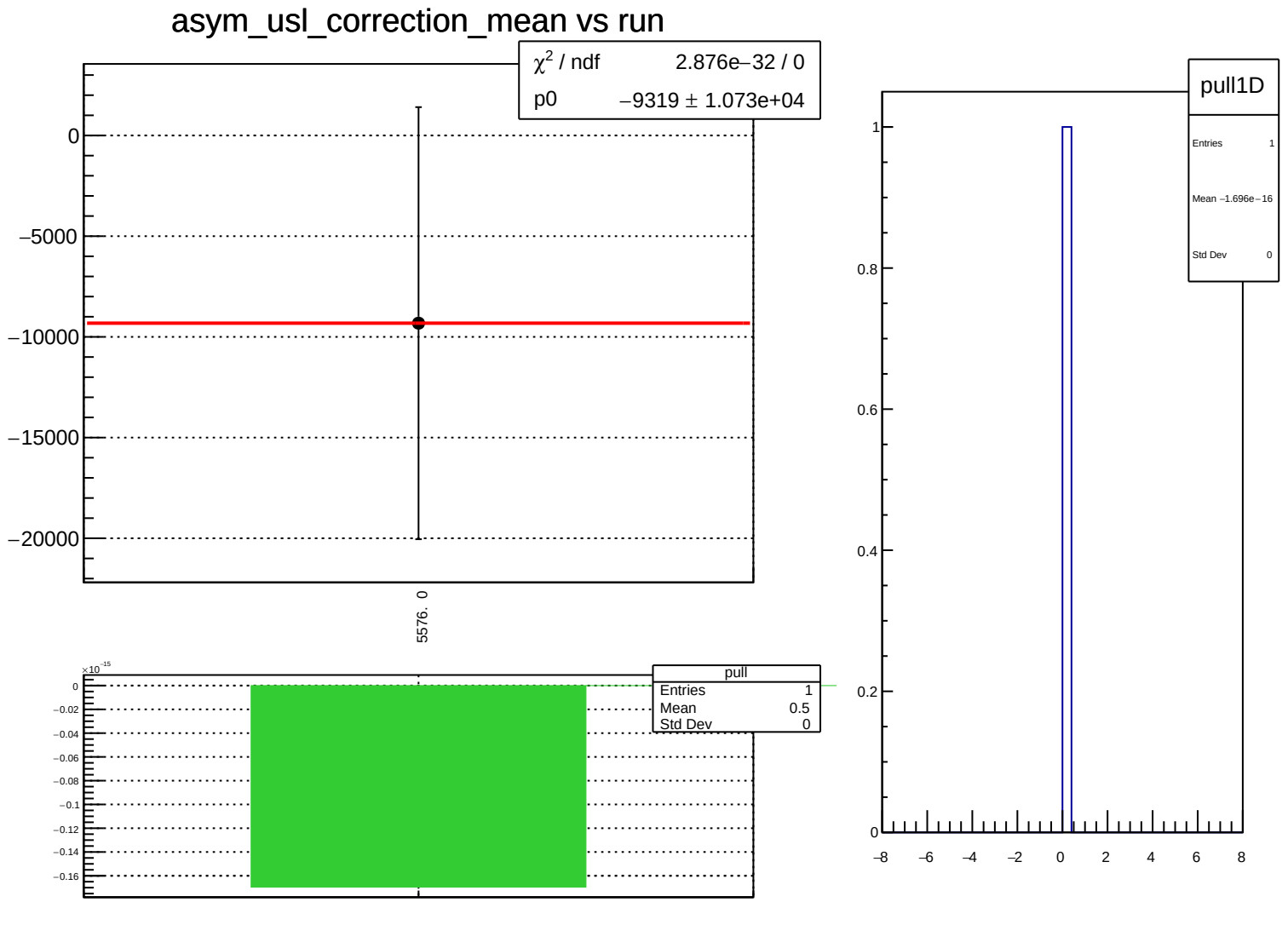

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

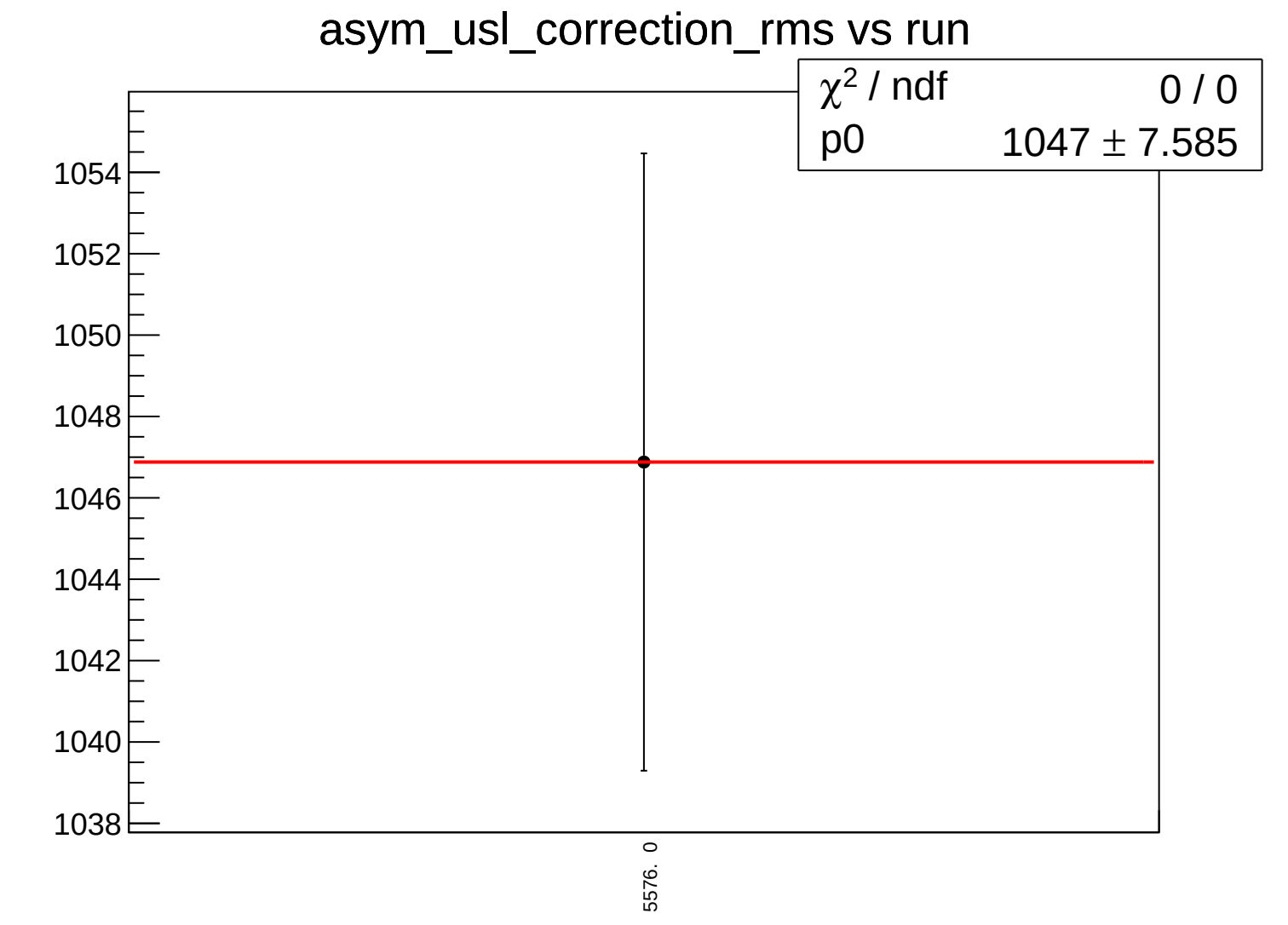

asym_ds_dd_rms vs run
χ² / ndf 0 / 0
p0 86.99 ± 0.6303
87.6
87.4
87.2
87
86.8
86.6
86.4
5576. 0

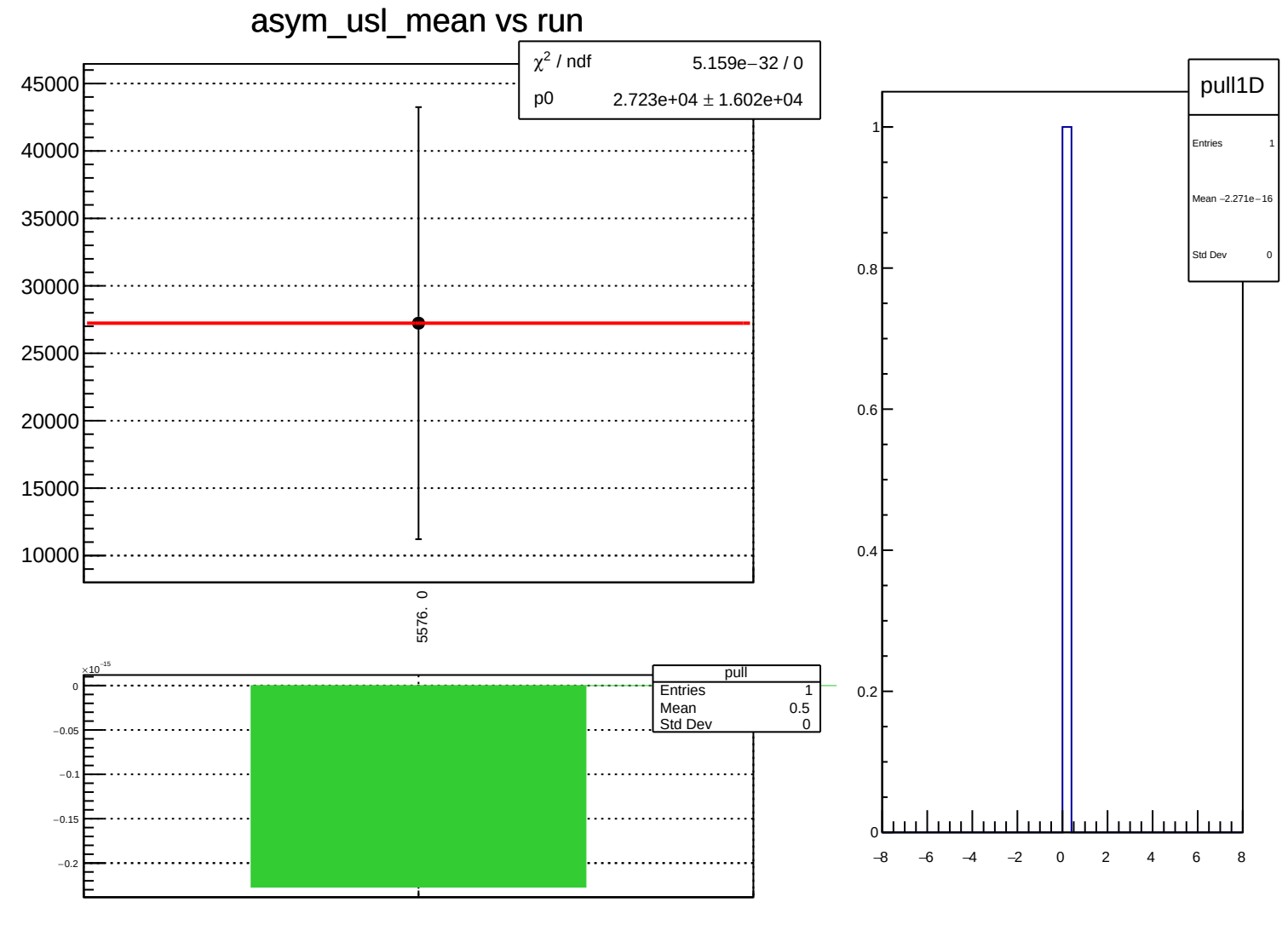

reg_asym_usl_mean vs run
χ² / ndf 9.353e−32 / 0
p0 1.791e+04 ± 1.19e+04
30000
25000
20000
15000
10000
5000
5576. 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

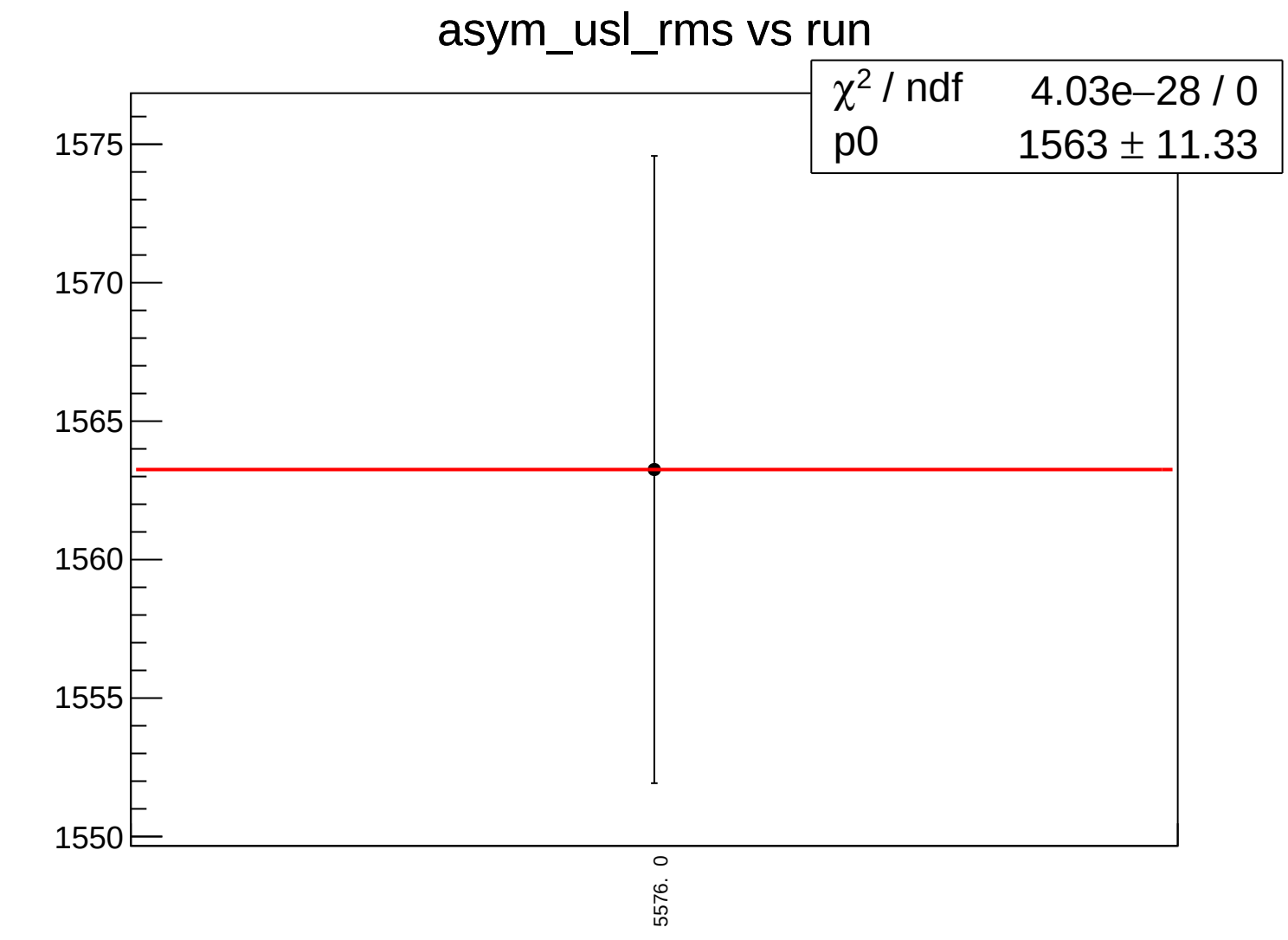

pull1D
Entries 1
Mean 3.058e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

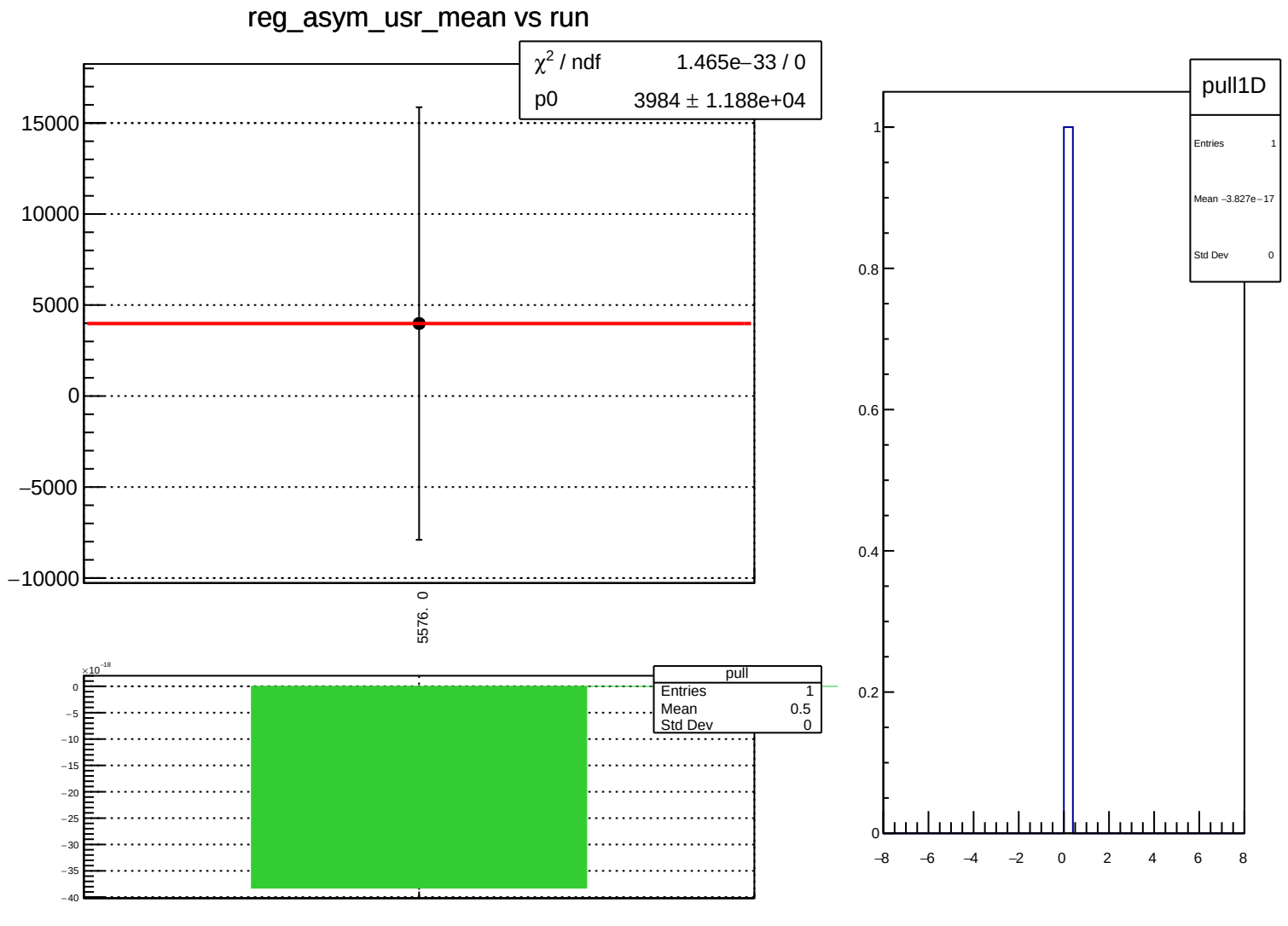

reg_asym_usl_rms vs run
χ² / ndf 0 / 0
p0 1161 ± 8.411
1170
1168
1166
1164
1162
1160
1158
1156
1154
1152
5576. 0

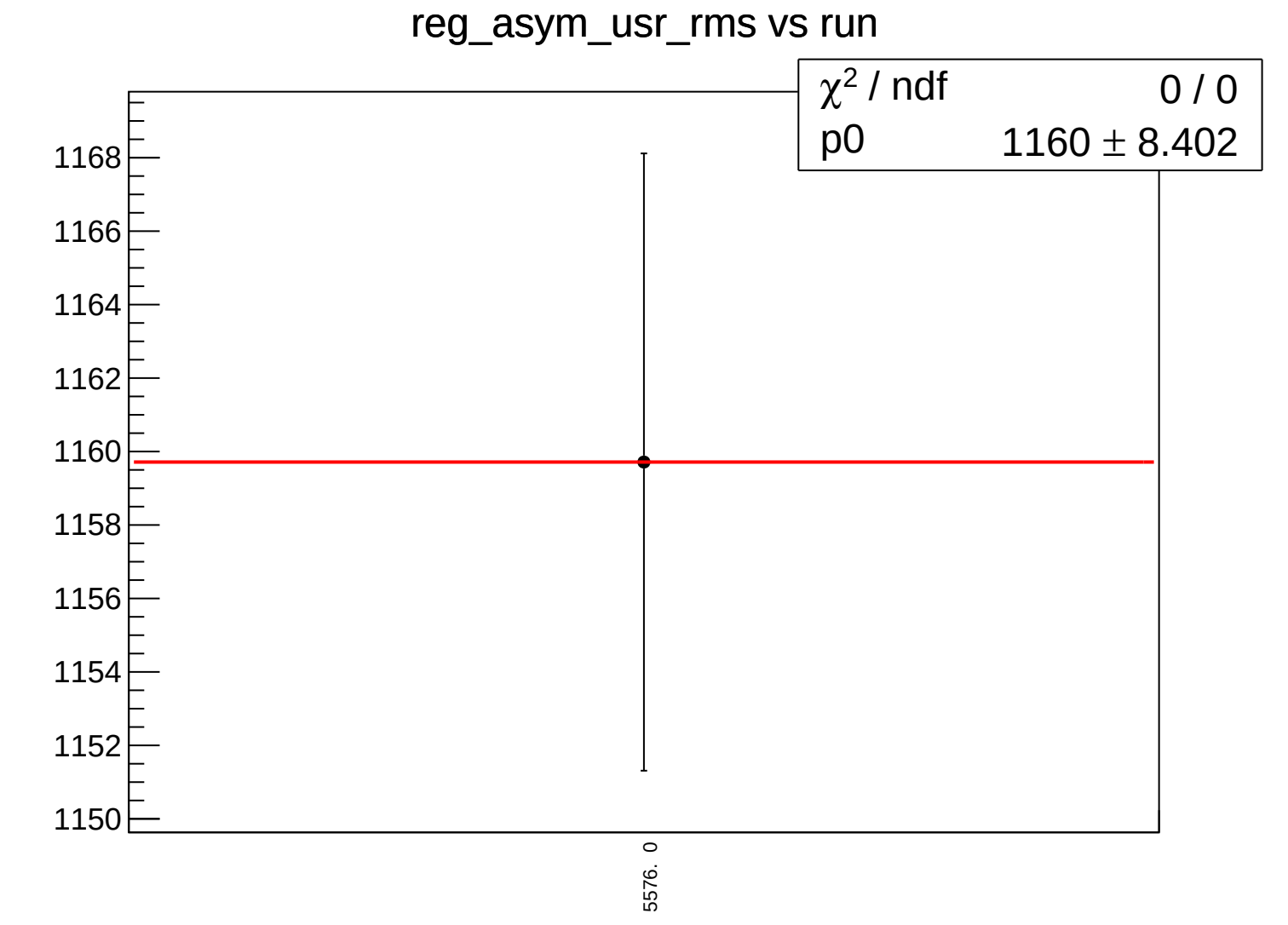

asym_usl_correction_mean vs run
χ² / ndf 2.876e−32 / 0
p0 −9319 ± 1.073e+04
0
−5000
−10000
−15000
−20000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.696e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

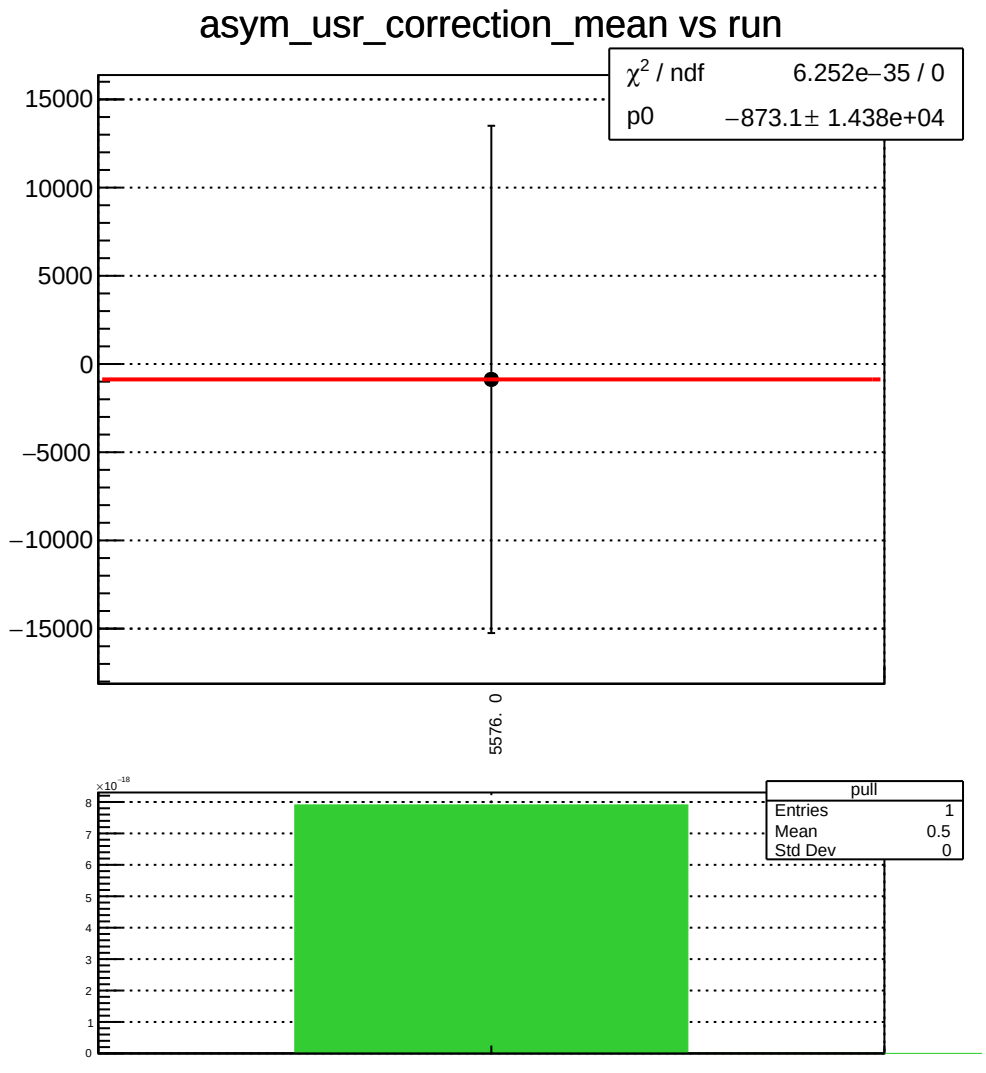

asym_usl_correction_rms vs run
χ² / ndf 0 / 0
p0 1047 ± 7.585
1054
1052
1050
1048
1046
1044
1042
1040
1038
5576. 0

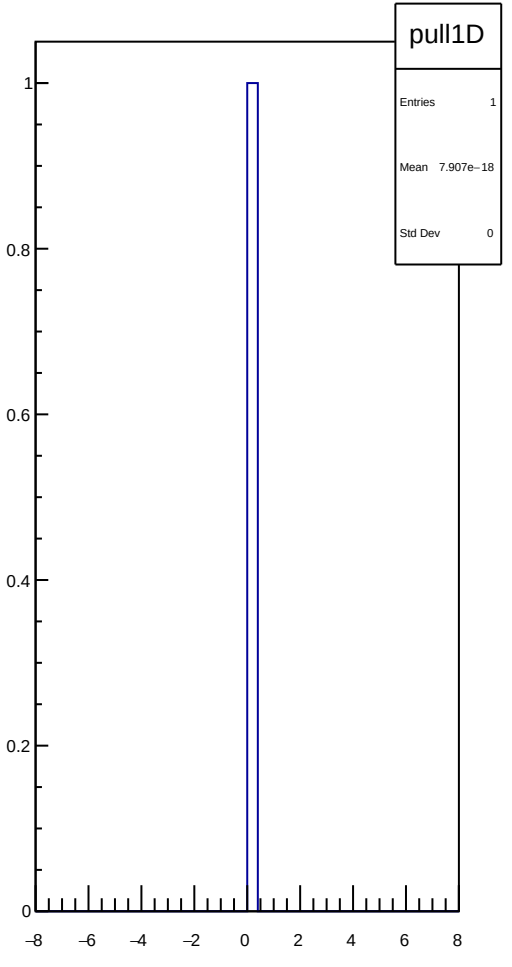

asym_usl_mean vs run
χ² / ndf 5.159e−32 / 0
p0 2.723e+04 ± 1.602e+04
45000
40000
35000
30000
25000
20000
15000
10000
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.271e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

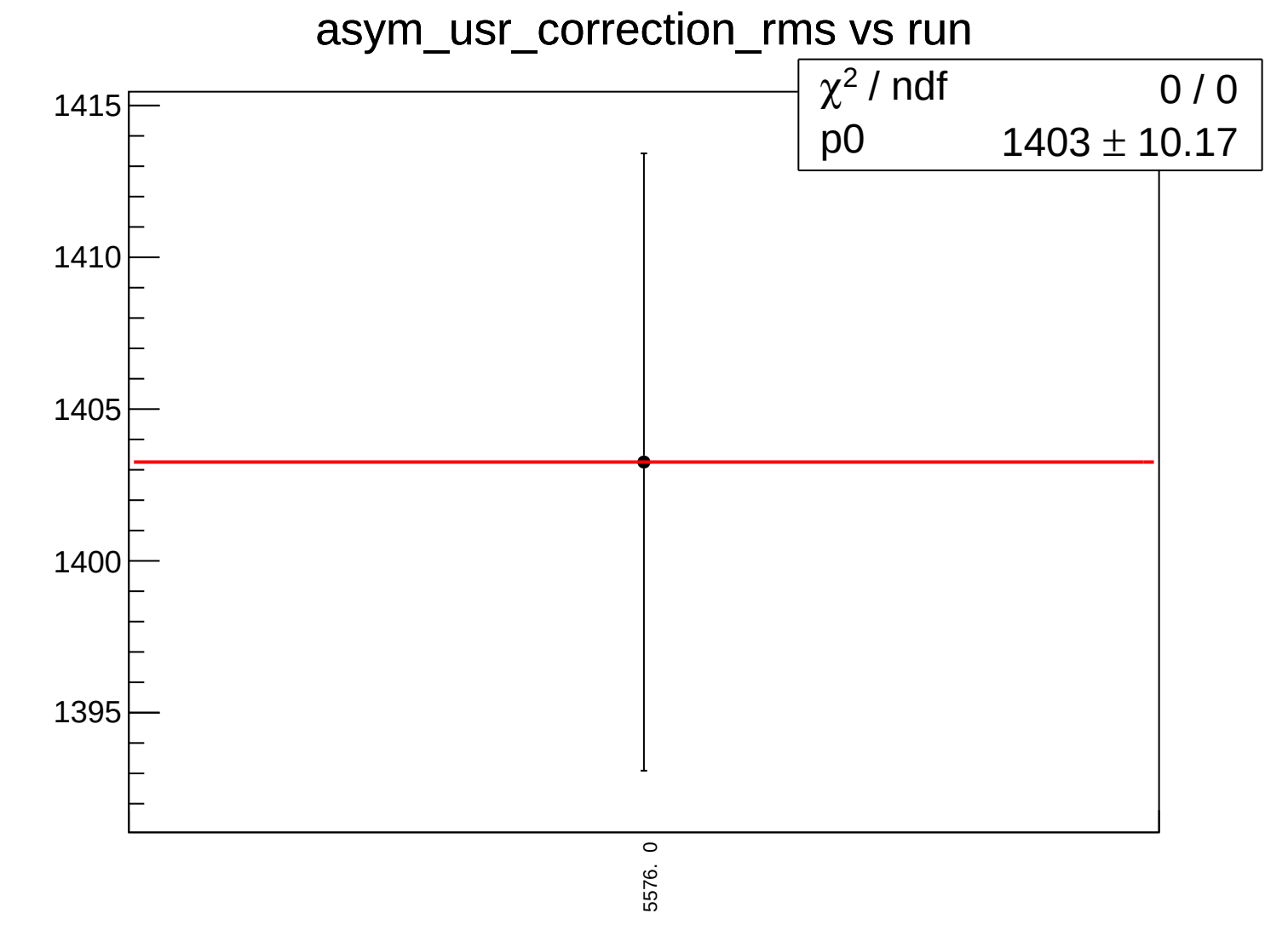

asym_usl_rms vs run
χ² / ndf 4.03e−28 / 0
p0 1563 ± 11.33
1575
1570
1565
1560
1555
1550
5576. 0

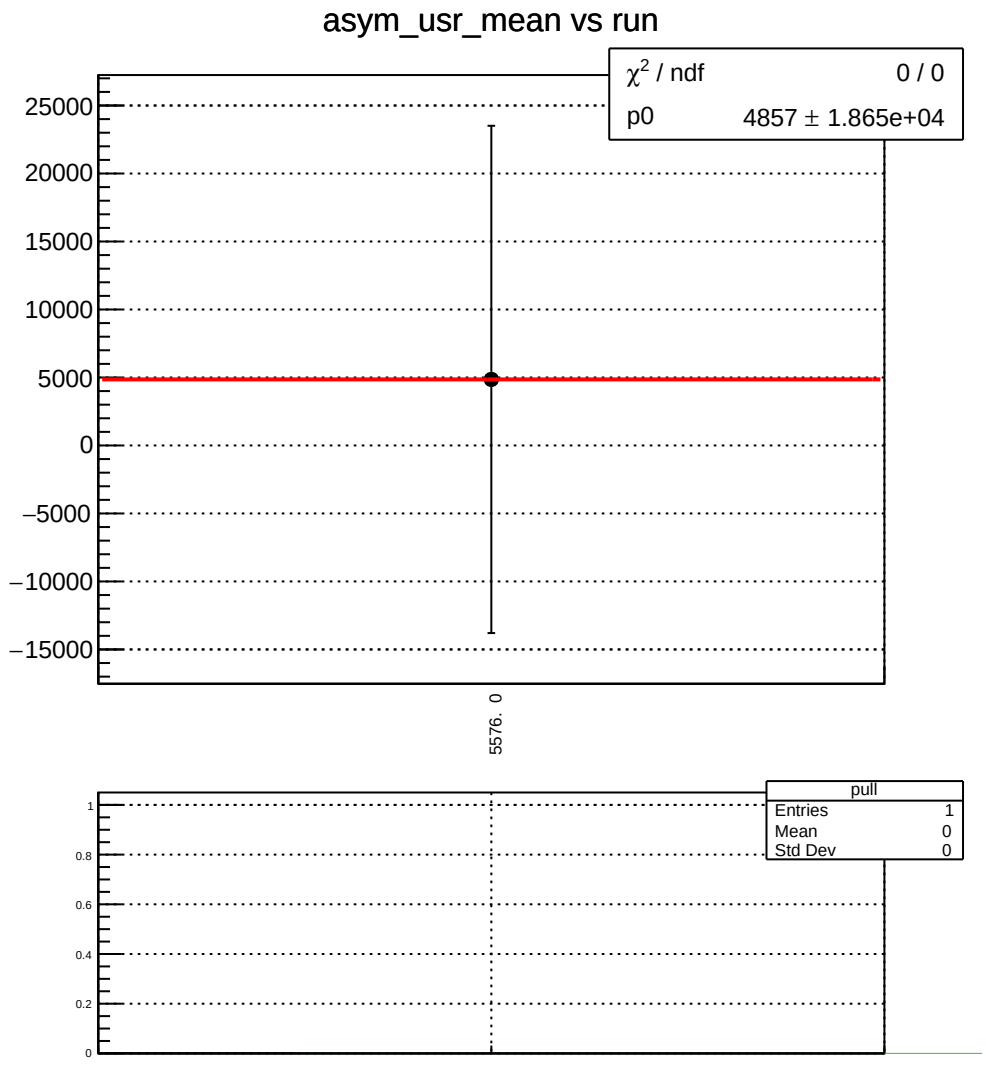

reg_asym_usr_mean vs run
χ² / ndf 1.465e−33 / 0
p0 3984 ± 1.188e+04
15000
10000
5000
0
−5000
−10000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.827e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

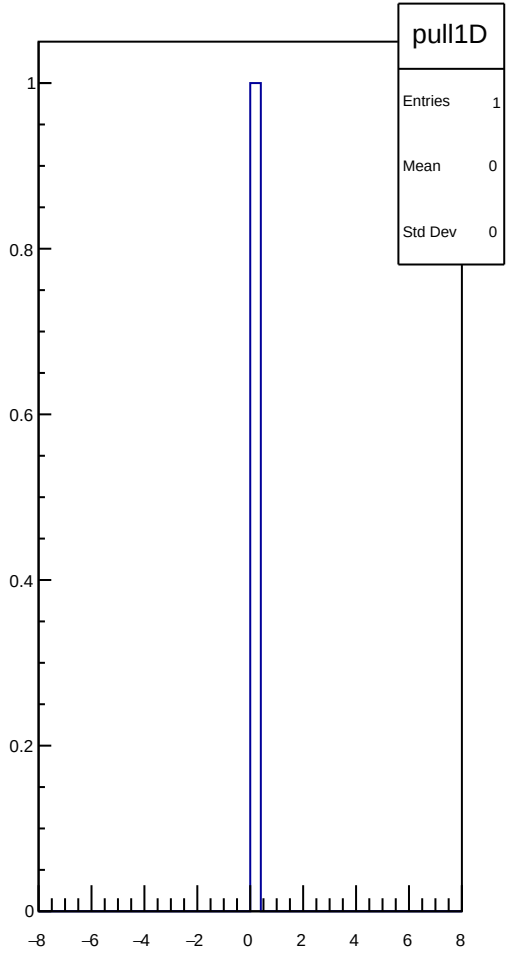

reg_asym_usr_rms vs run
χ² / ndf 0 / 0
p0 1160 ± 8.402
1168
1166
1164
1162
1160
1158
1156
1154
1152
1150
5576. 0

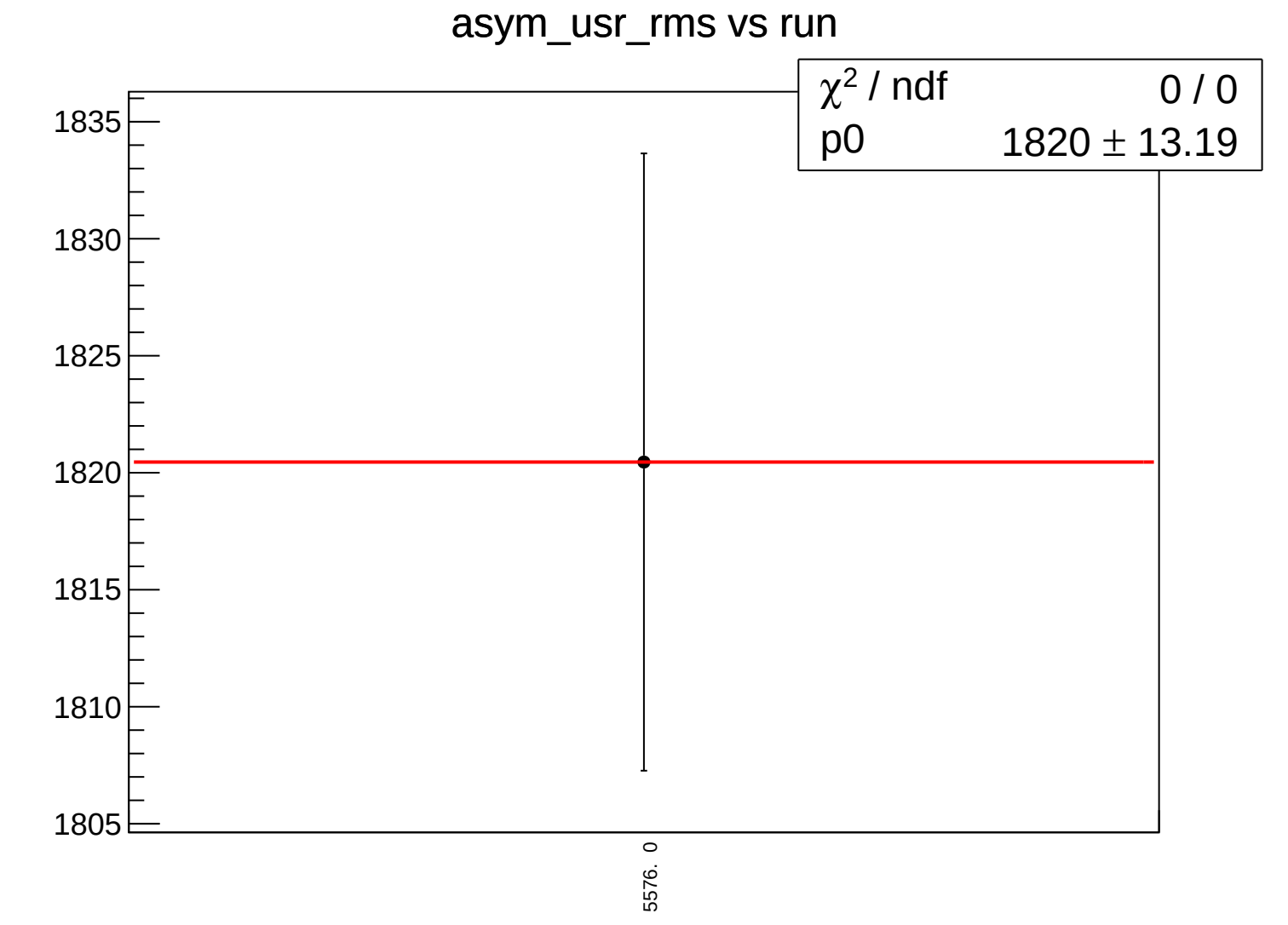

asym_usr_correction_mean vs run
χ² / ndf 6.252e−35 / 0
p0 −873.1± 1.438e+04
15000
10000
5000
0
−5000
−10000
−15000
5576. 0
×10⁻¹⁸
8
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0

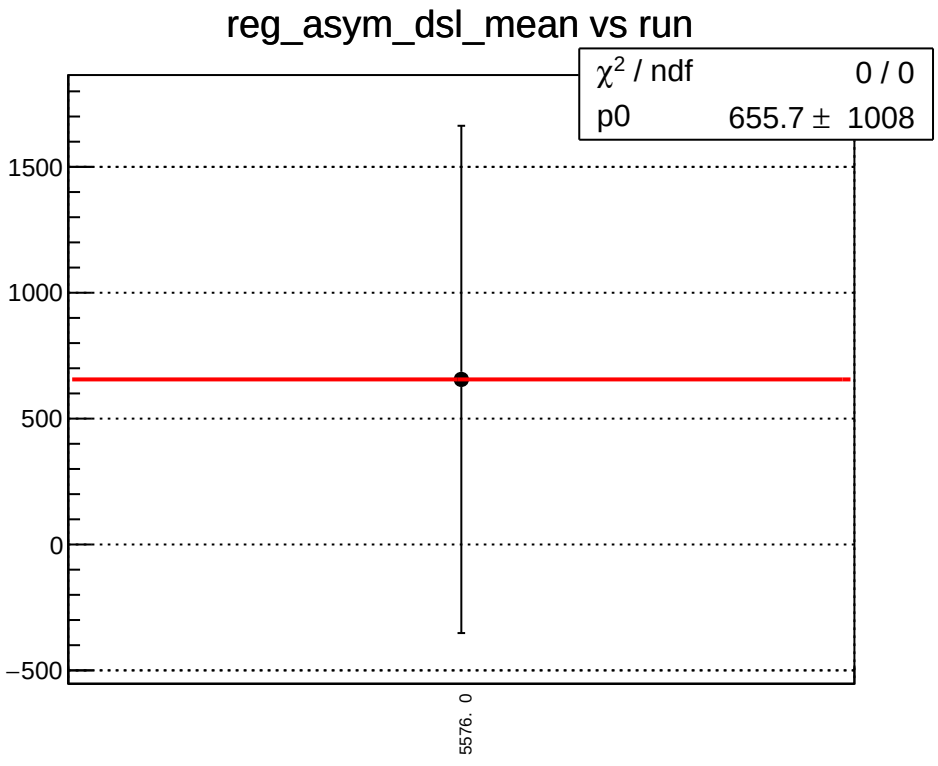

pull1D
Entries 1
Mean 7.907e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

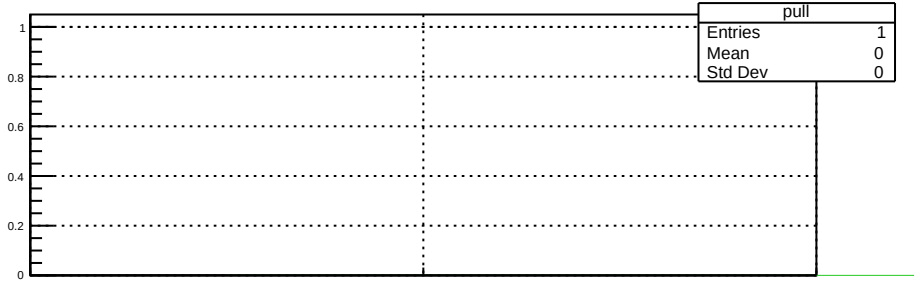

asym_usr_correction_rms vs run
χ² / ndf 0 / 0
p0 1403 ± 10.17
1415
1410
1405
1400
1395
5576. 0

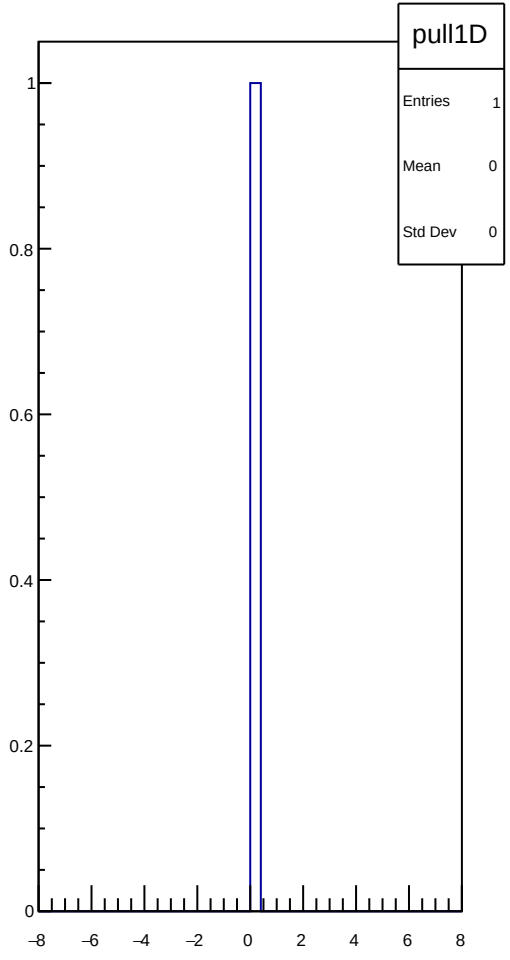

asym_usr_mean vs run
χ² / ndf 0 / 0
p0 4857 ± 1.865e+04
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

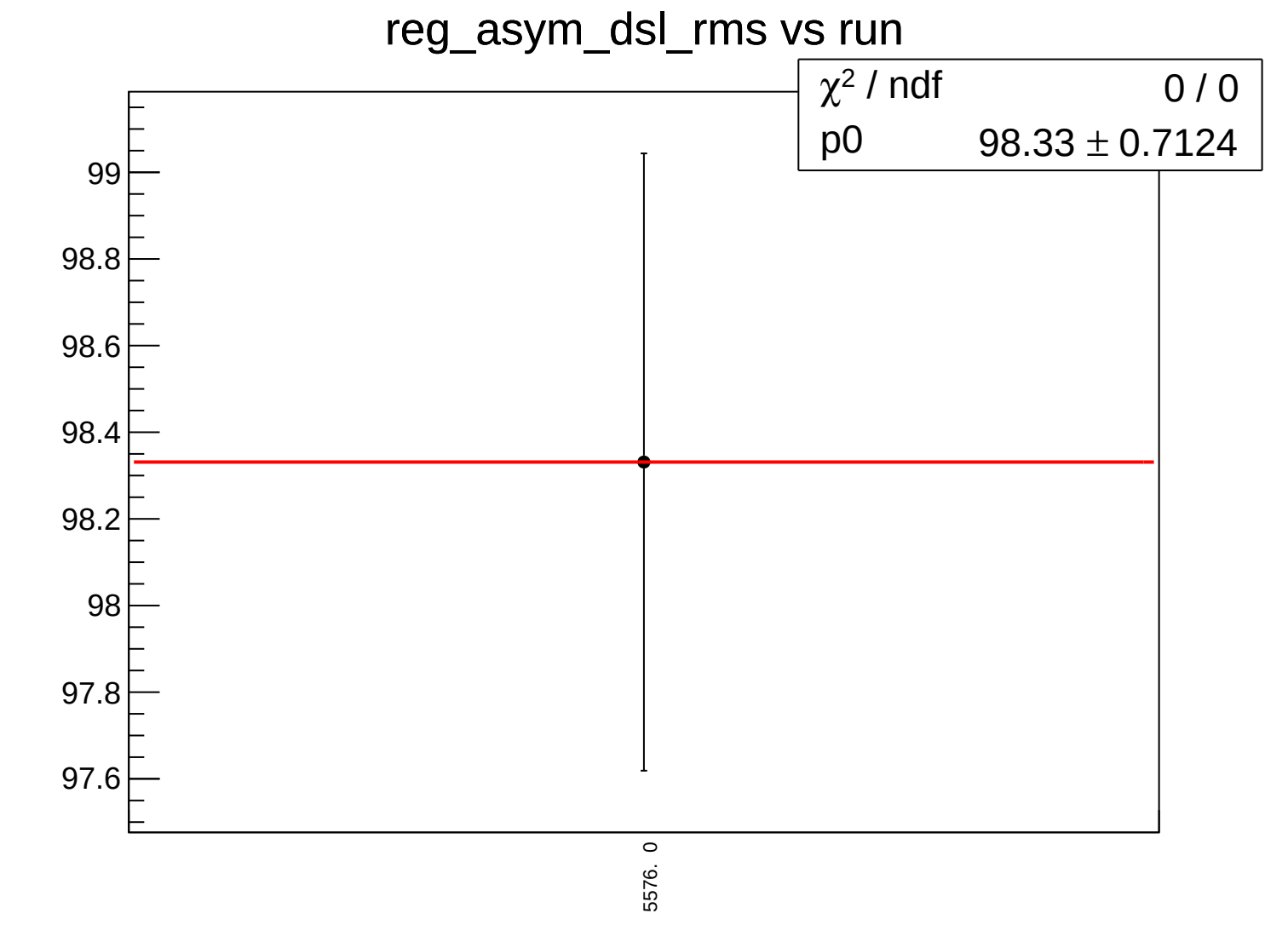

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

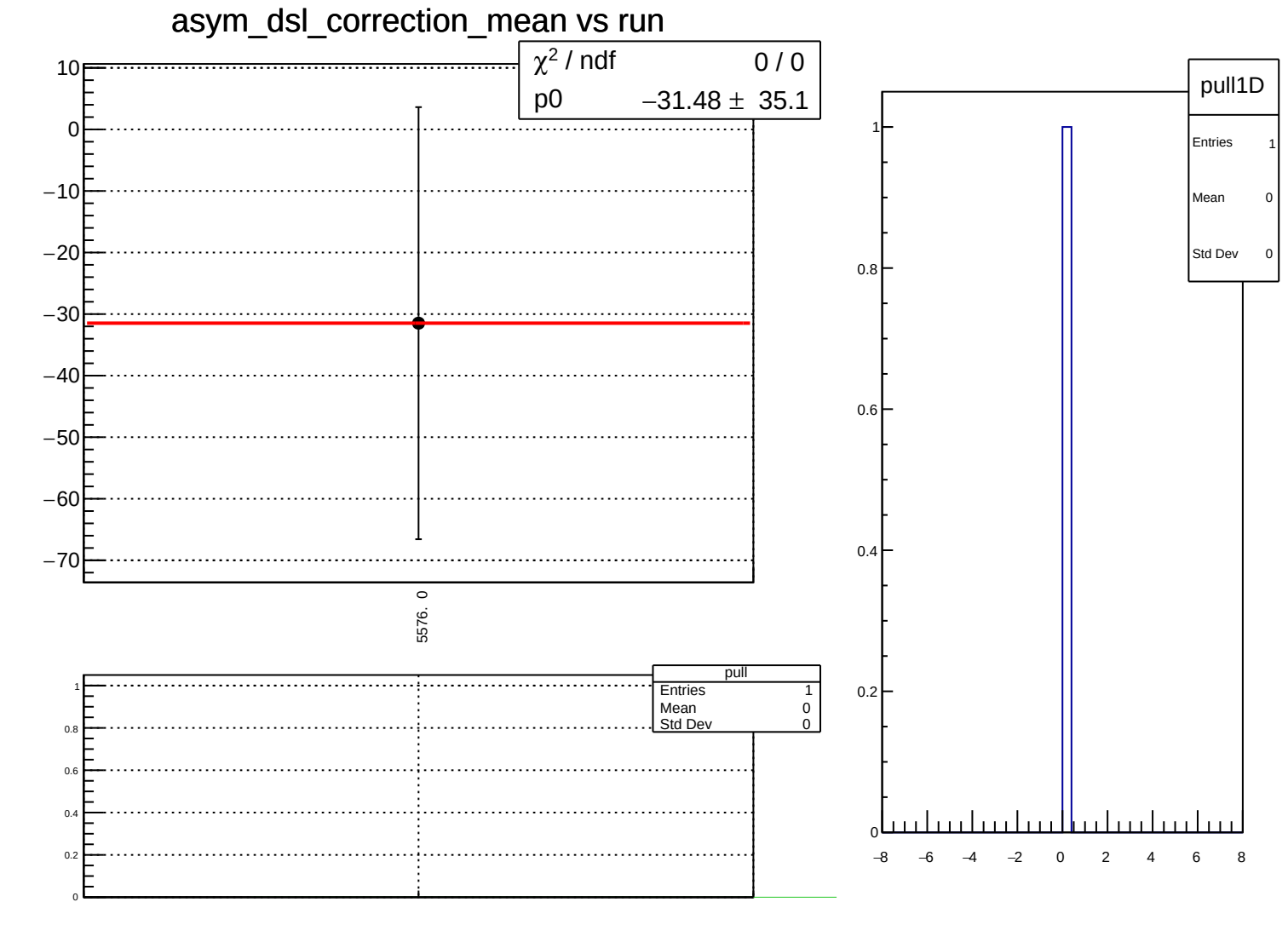

asym_usr_rms vs run
χ² / ndf 0 / 0
p0 1820 ± 13.19
1835
1830
1825
1820
1815
1810
1805
5576. 0

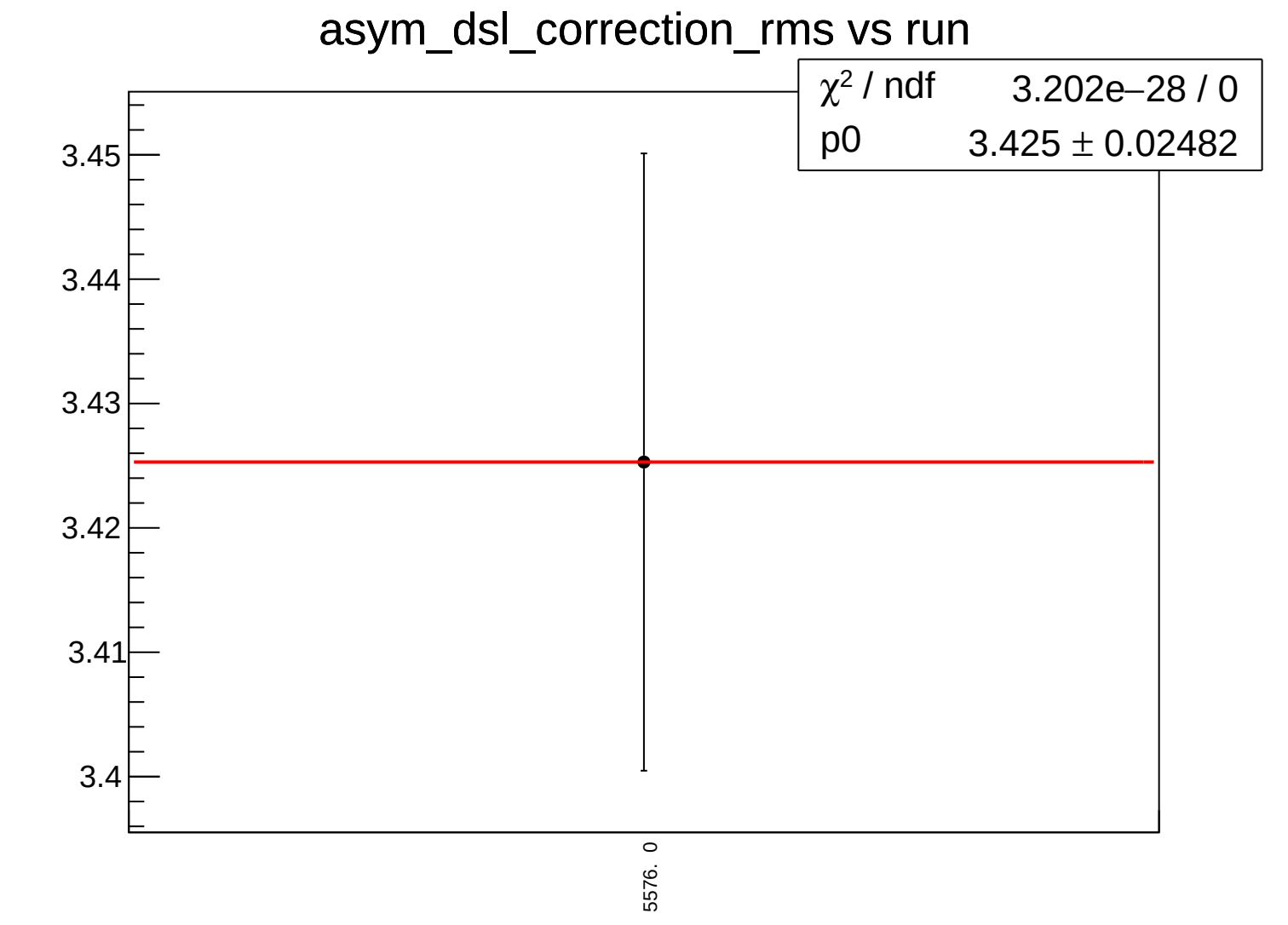

reg_asym_dsl_mean vs run
χ² / ndf 0 / 0
p0 655.7 ± 1008
1500
1000
500
0
−500
5576. 0

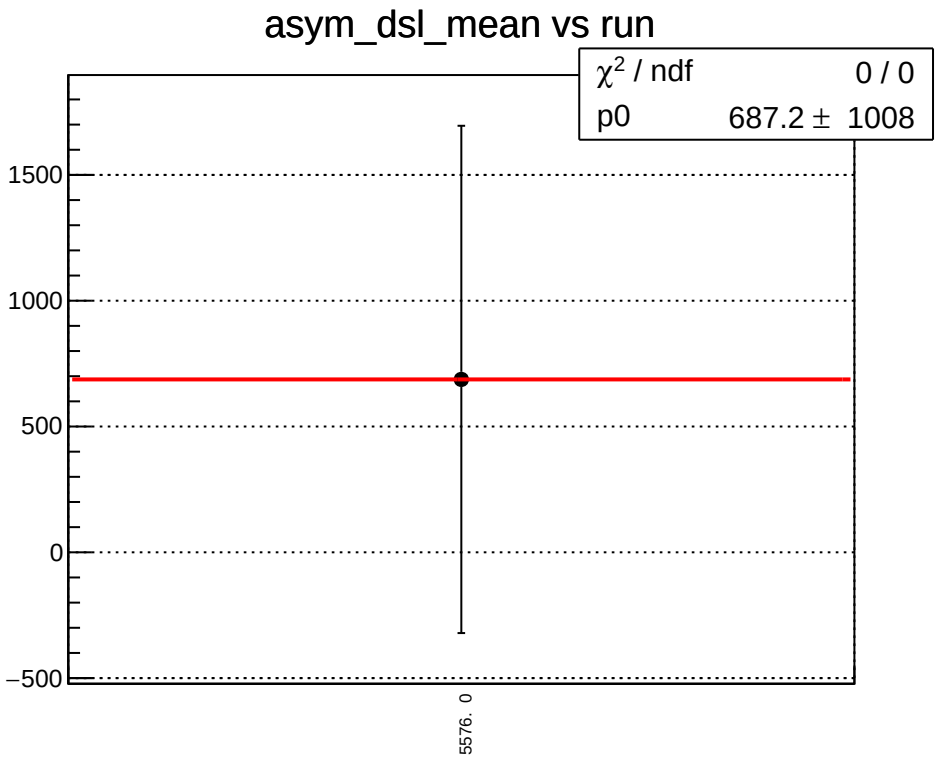

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

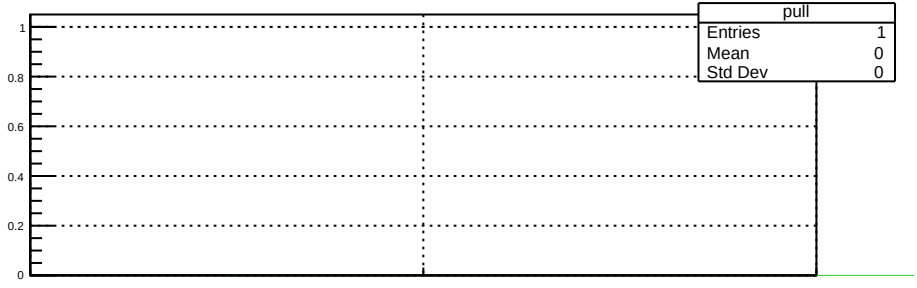

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

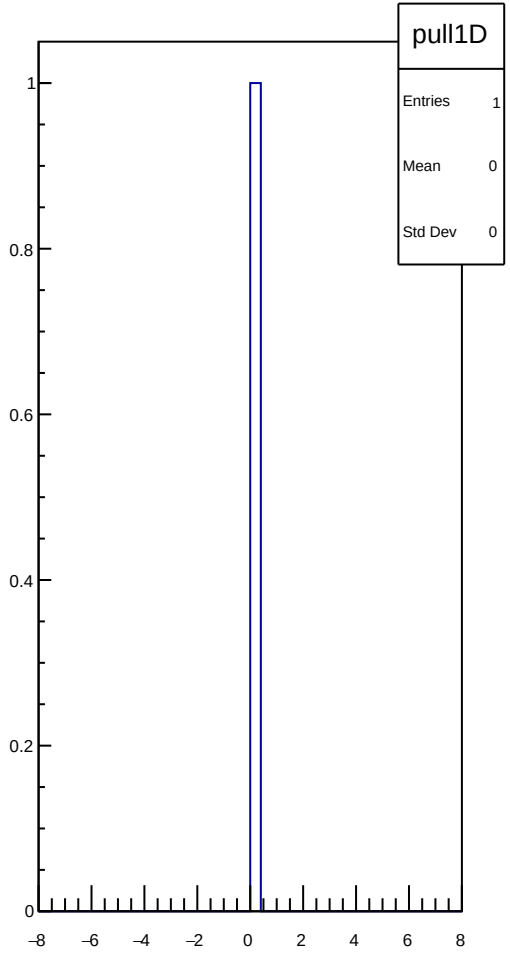

reg_asym_dsl_rms vs run
χ² / ndf 0 / 0
p0 98.33 ± 0.7124
99
98.8
98.6
98.4
98.2
98
97.8
97.6
5576. 0

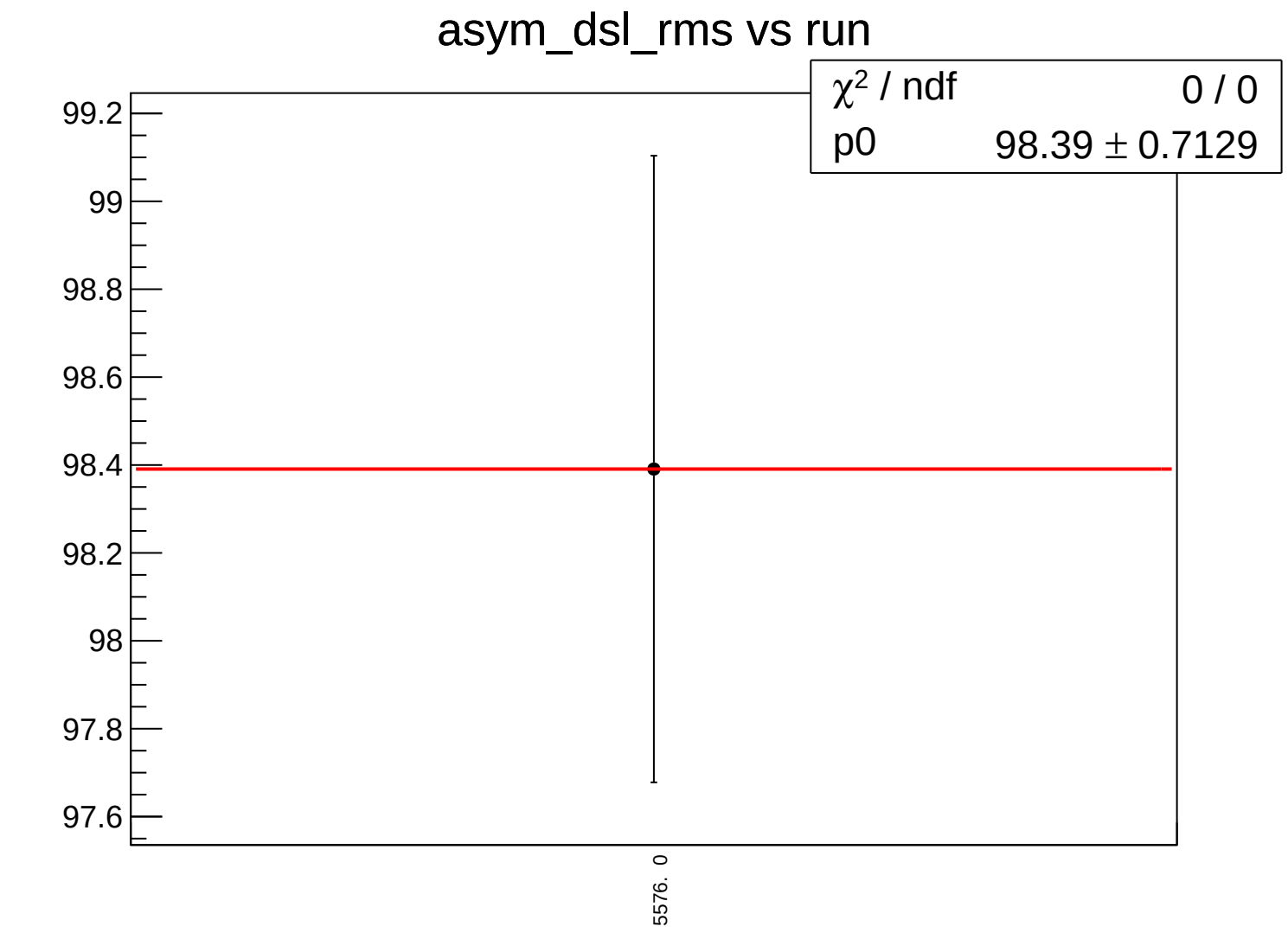

asym_dsl_correction_mean vs run
χ² / ndf 0 / 0
p0 −31.48 ± 35.1
10
0
−10
−20
−30
−40
−50
−60
−70
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

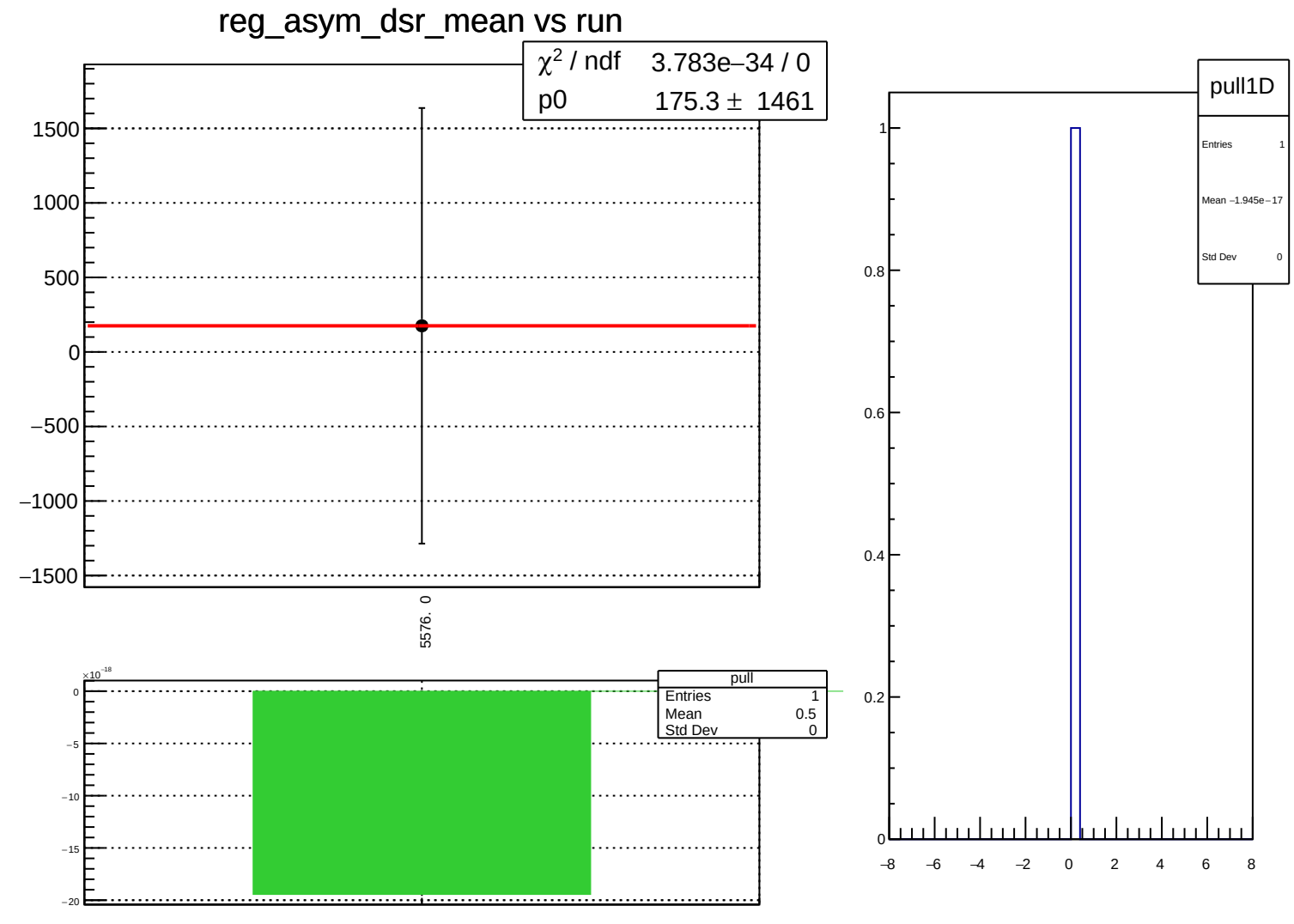

asym_dsl_correction_rms vs run
χ² / ndf 3.202e−28 / 0
p0 3.425 ± 0.02482
3.45
3.44
3.43
3.42
3.41
3.4
5576. 0

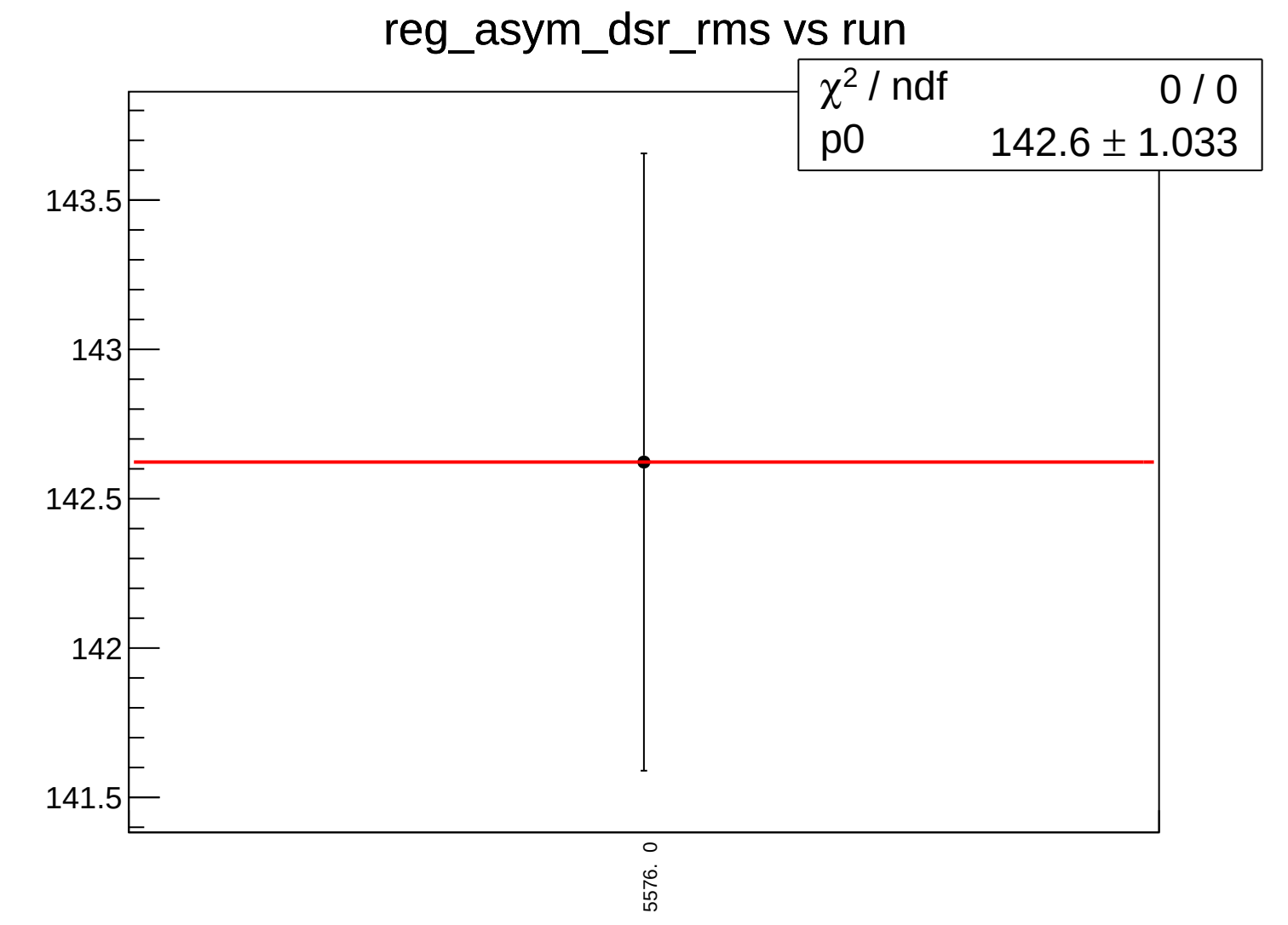

asym_dsl_mean vs run
χ² / ndf 0 / 0
p0 687.2 ± 1008
1500
1000
500
0
−500
5576. 0

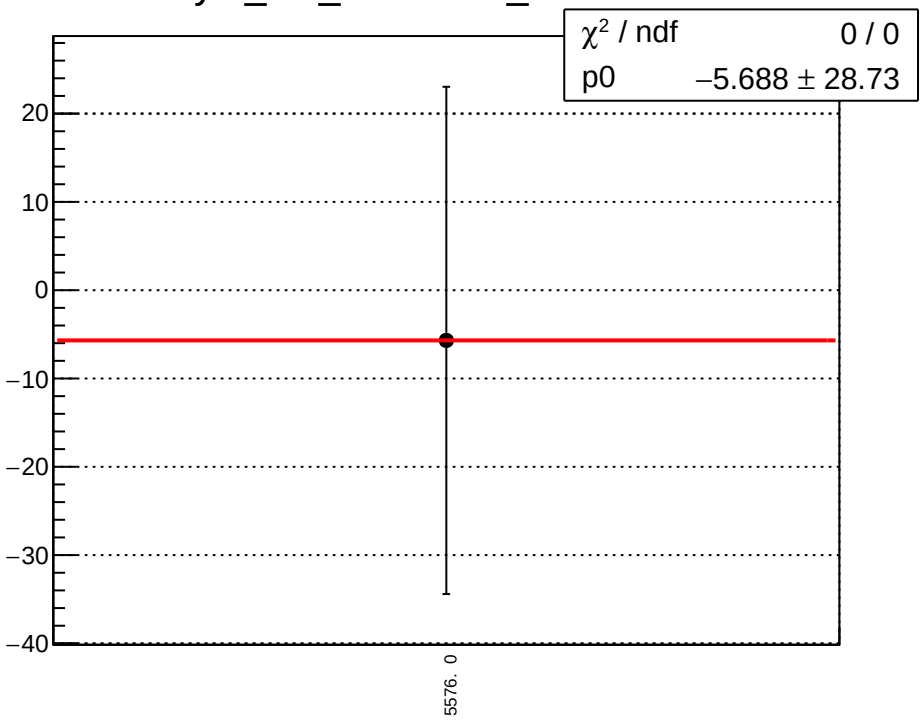

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

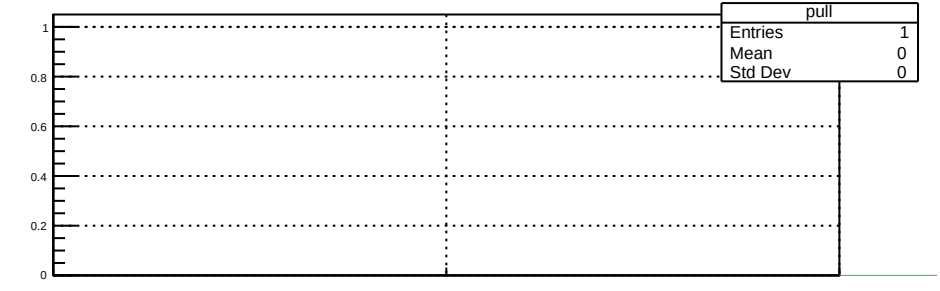

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

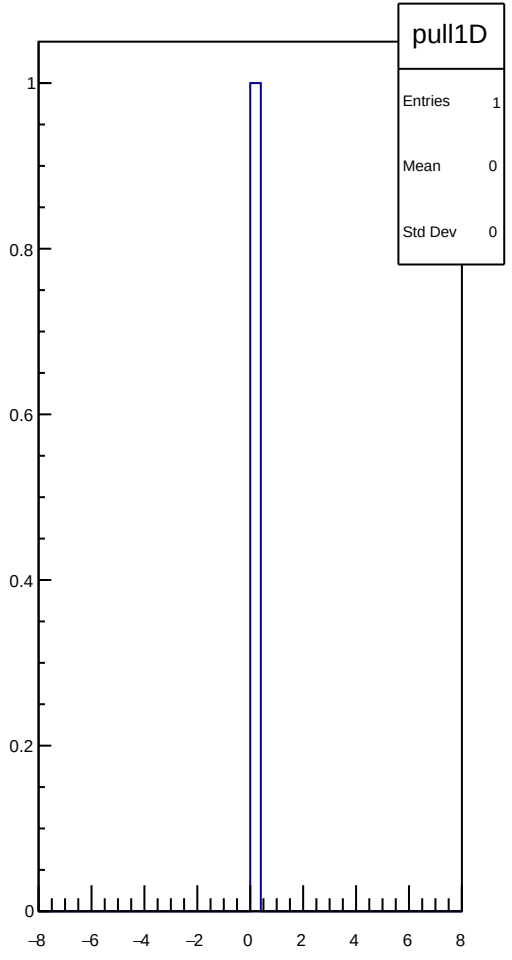

asym_dsl_rms vs run
χ² / ndf 0 / 0
p0 98.39 ± 0.7129
99.2
99
98.8
98.6
98.4
98.2
98
97.8
97.6
5576. 0

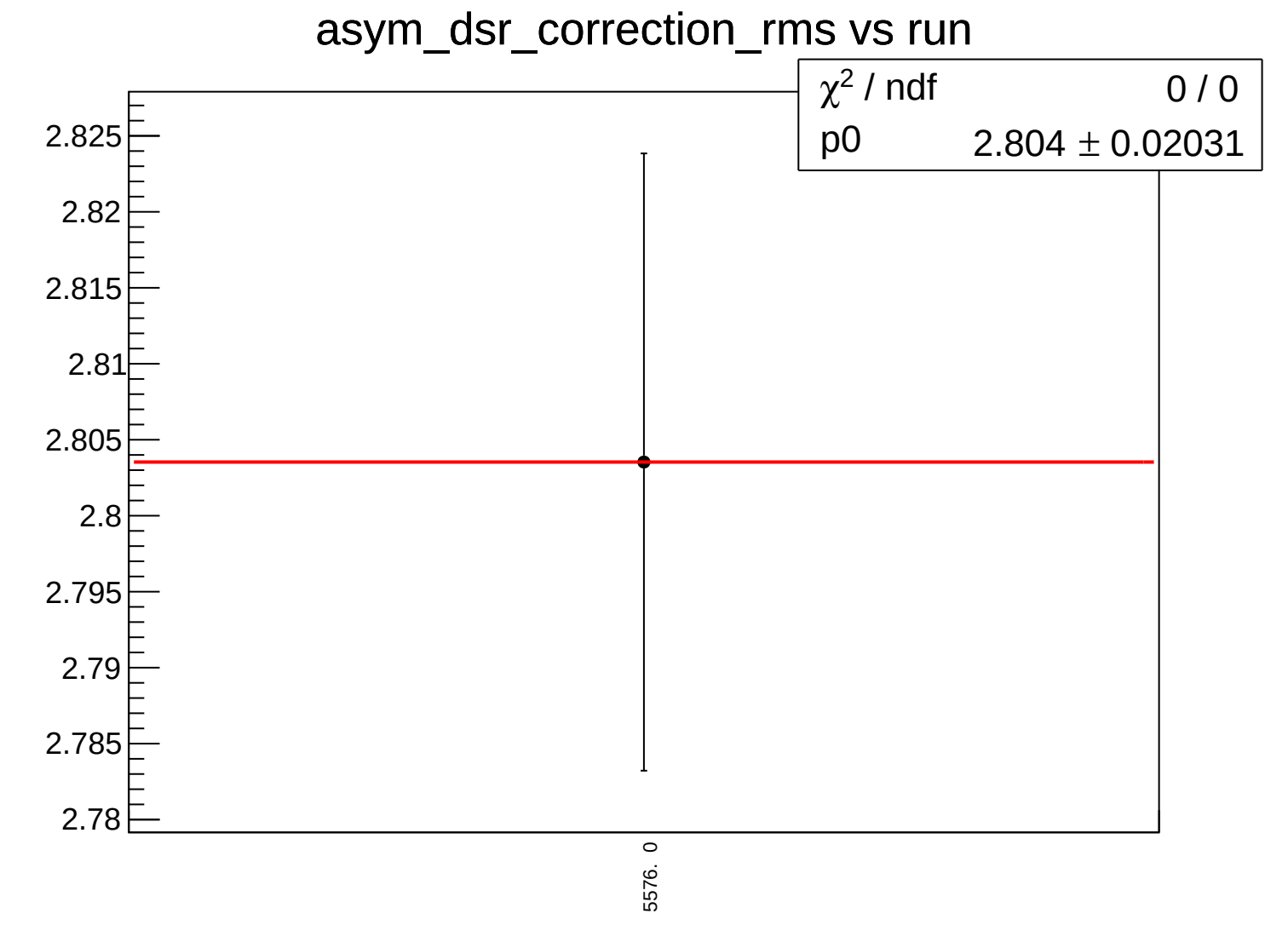

reg_asym_dsr_mean vs run
χ² / ndf 3.783e−34 / 0
p0 175.3 ± 1461
1500
1000
500
0
−500
−1000
−1500
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.945e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

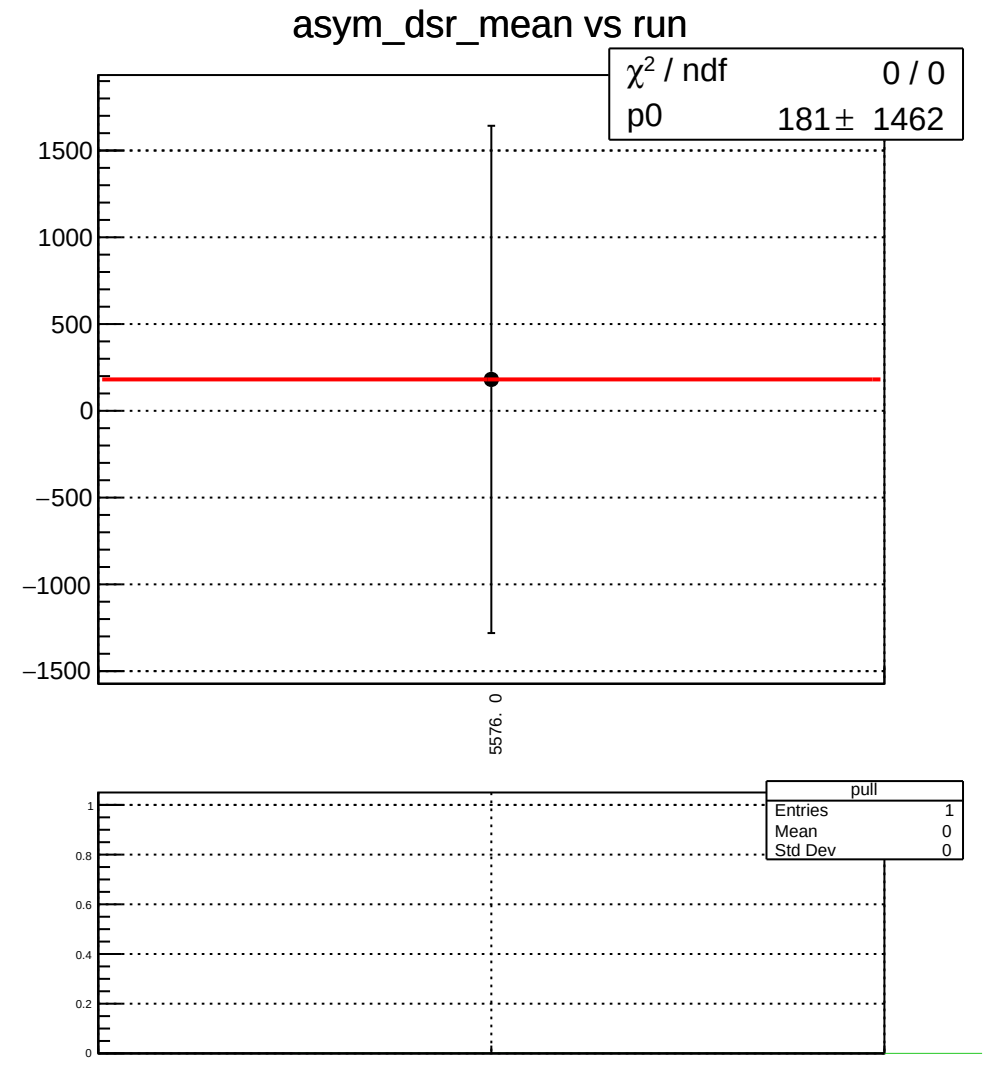

reg_asym_dsr_rms vs run
χ² / ndf 0 / 0
p0 142.6 ± 1.033
143.5
143
142.5
142
141.5
5576. 0

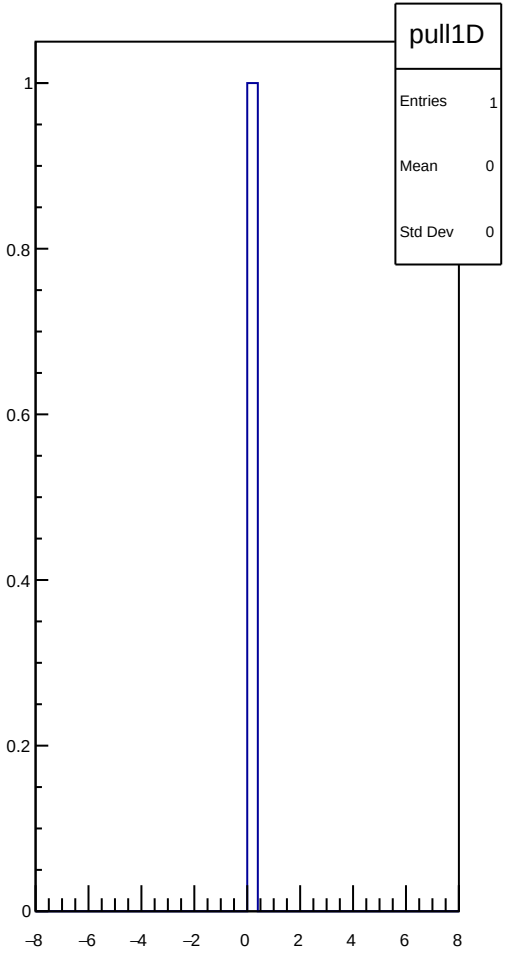

asym_dsr_correction_mean vs run
χ² / ndf 0 / 0
p0 −5.688 ± 28.73
20
10
0
−10
−20
−30
−40
5576. 0

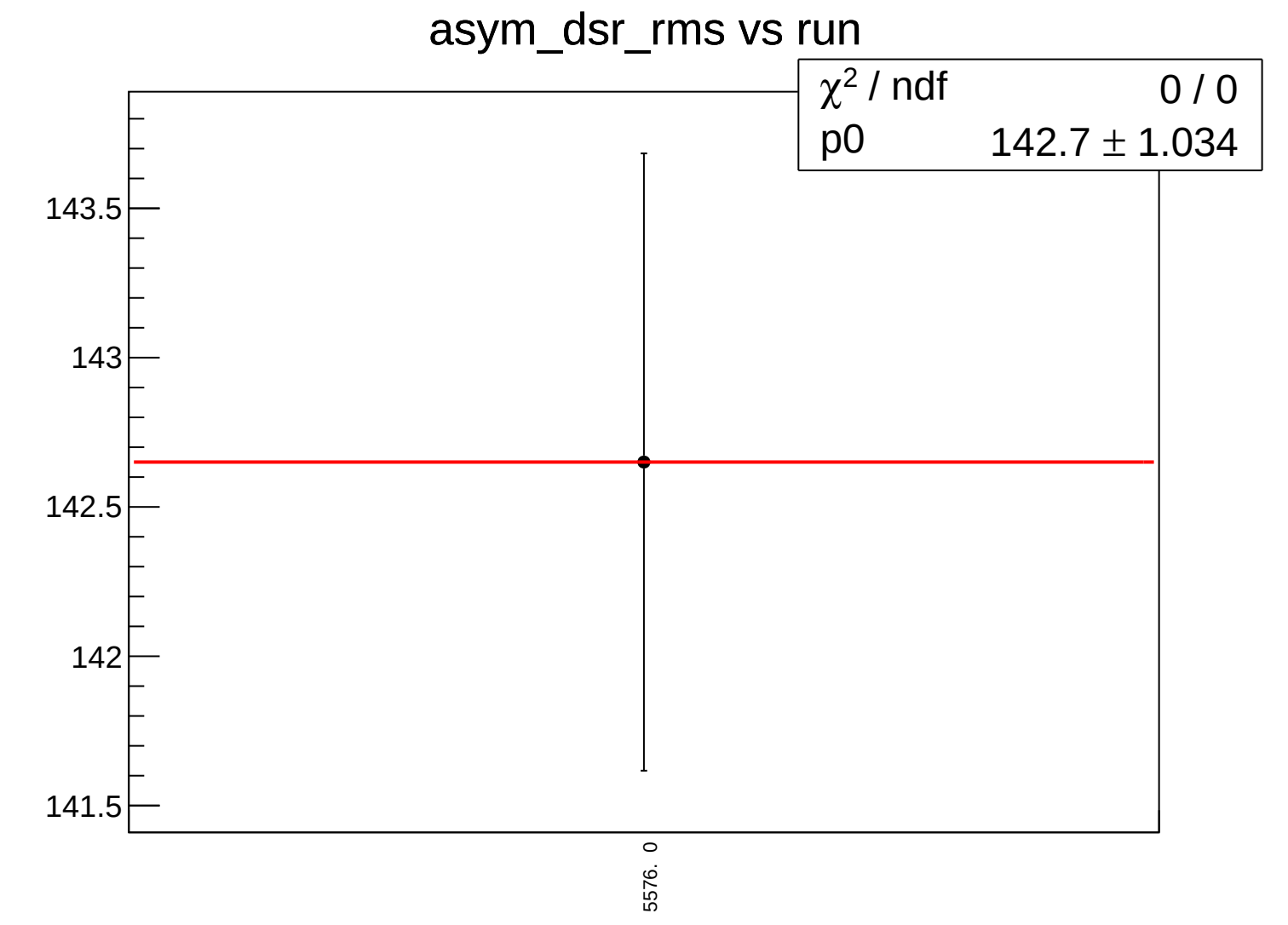

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

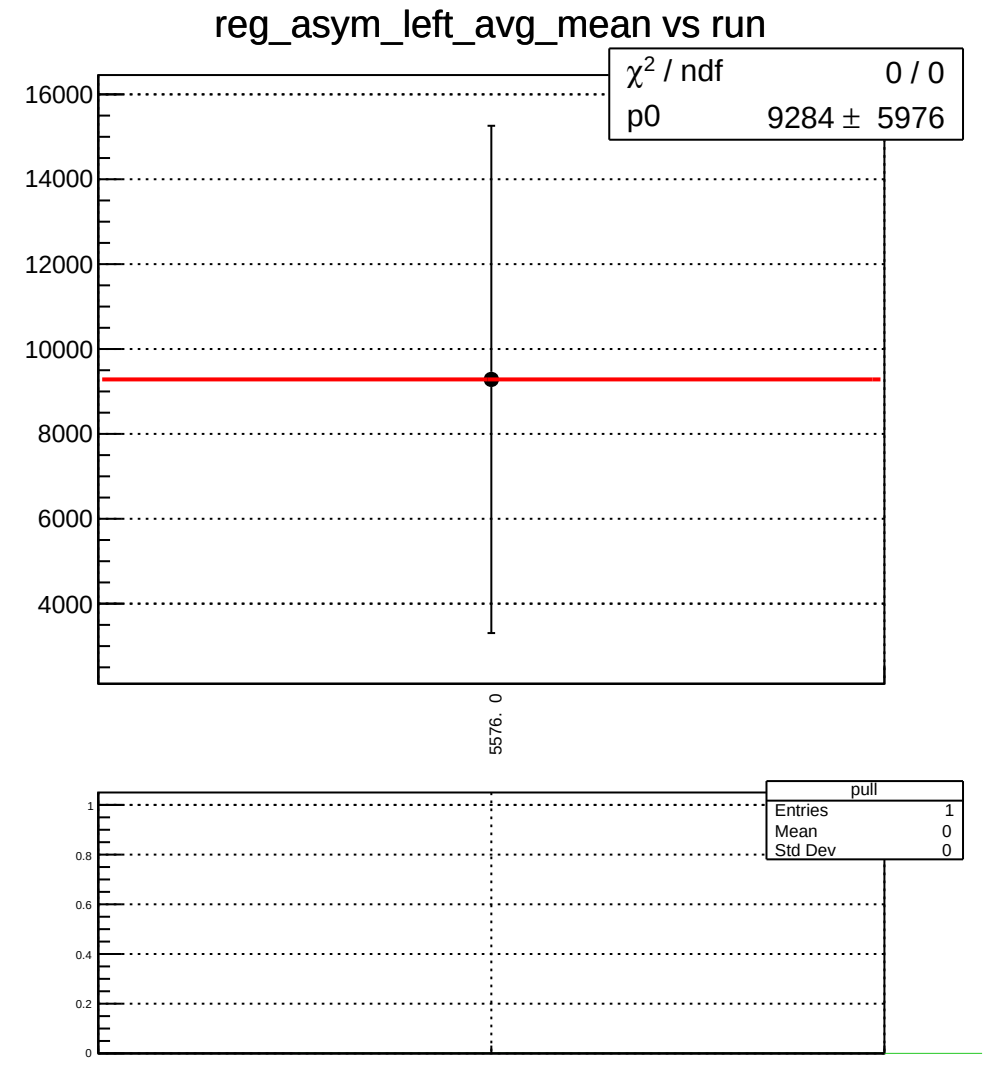

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

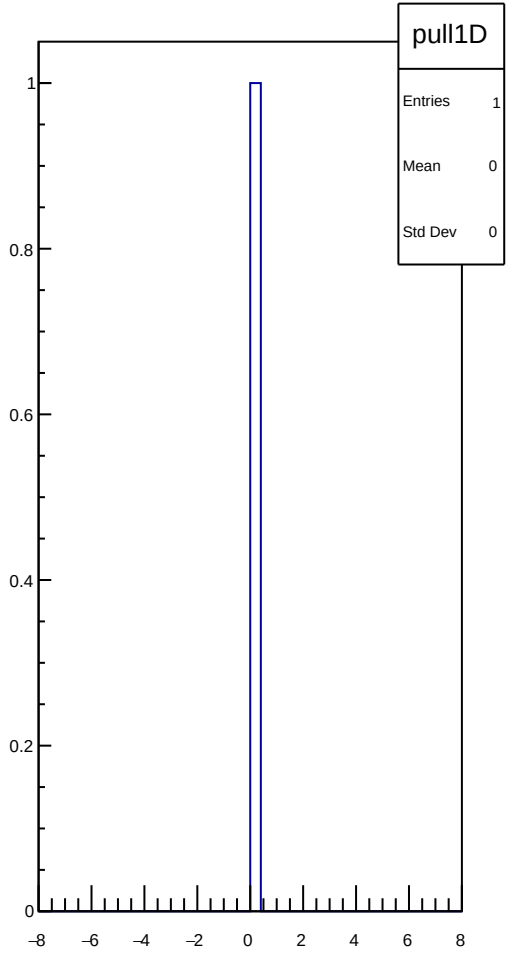

asym_dsr_correction_rms vs run
χ² / ndf 0 / 0
p0 2.804 ± 0.02031
2.825
2.82
2.815
2.81
2.805
2.8
2.795
2.79
2.785
2.78
5576. 0

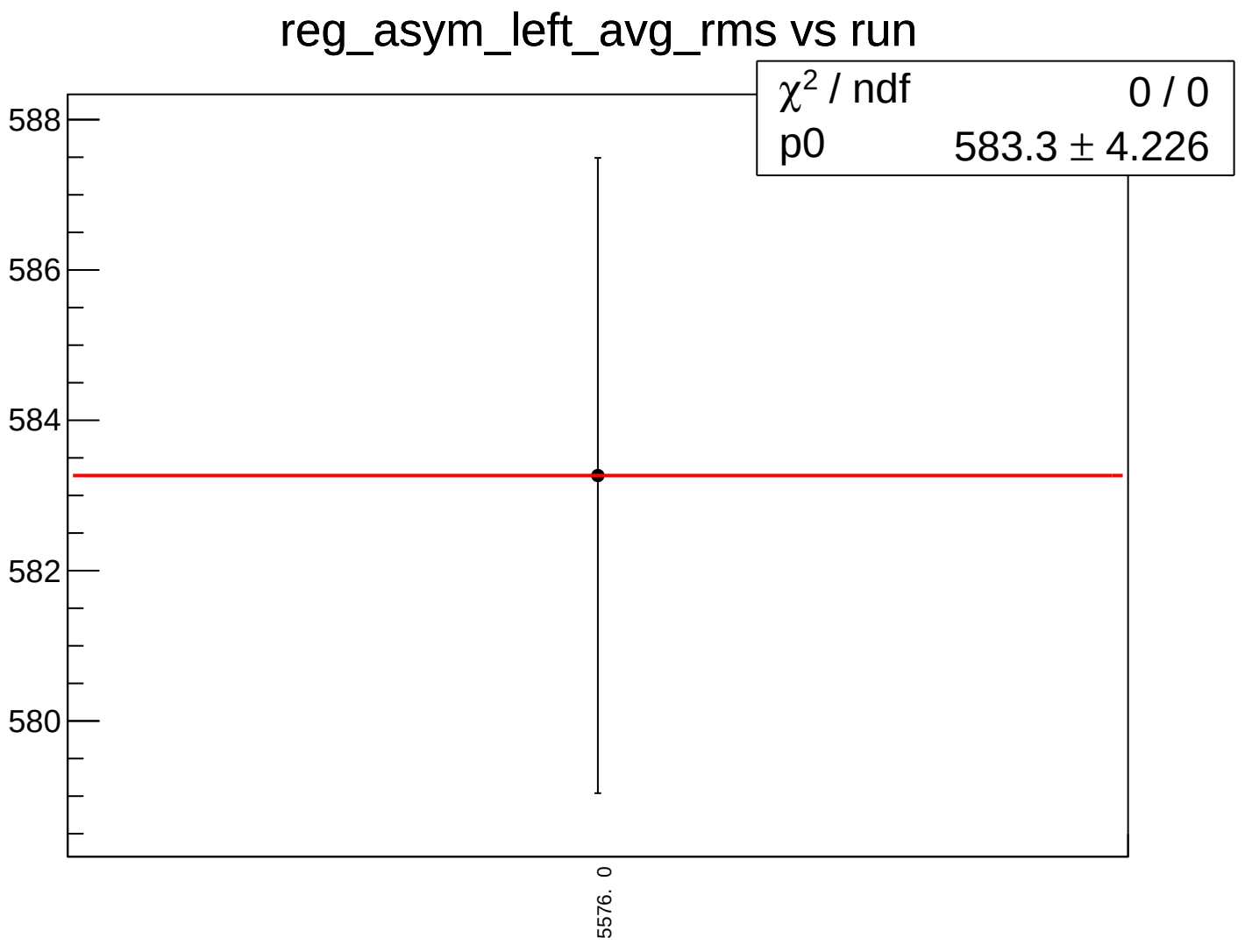

asym_dsr_mean vs run
χ² / ndf 0 / 0
p0 181 ± 1462
1500
1000
500
0
−500
−1000
−1500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

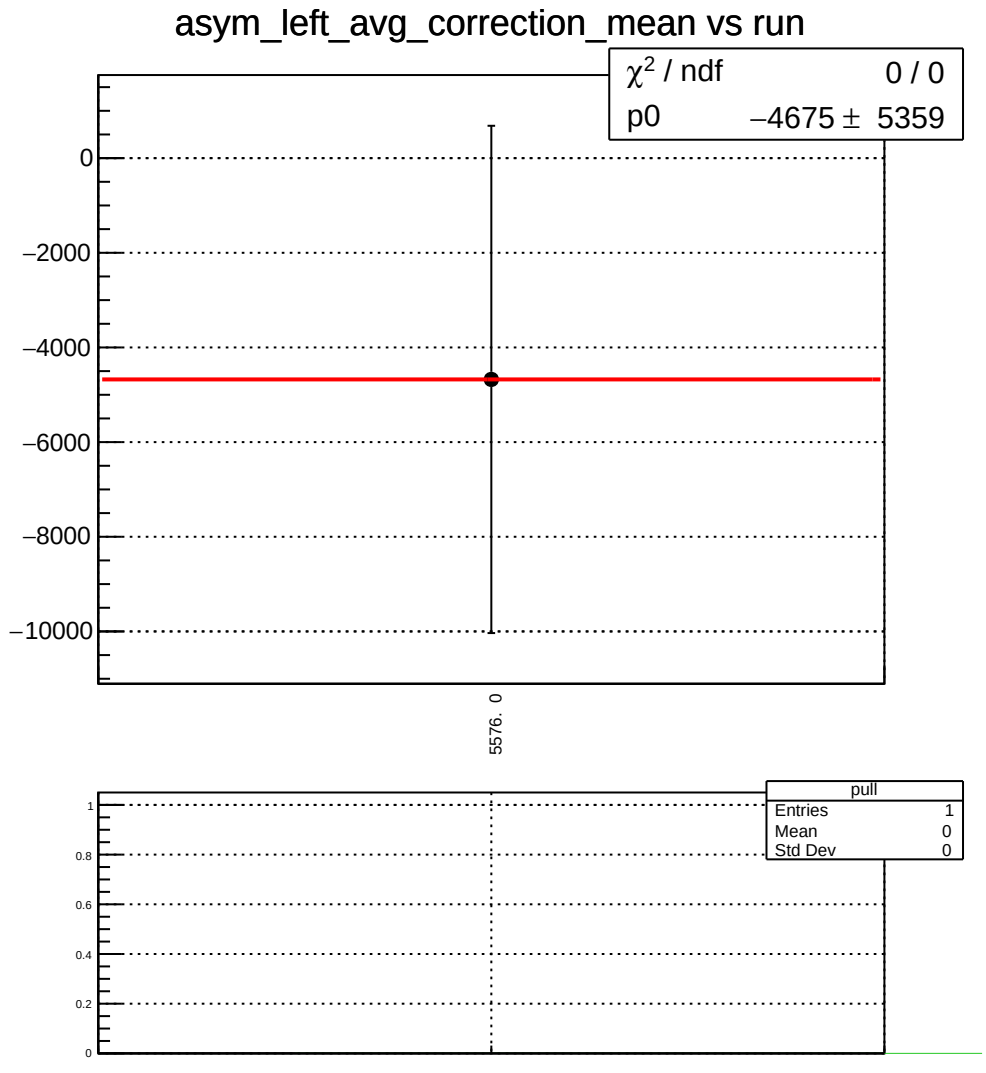

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

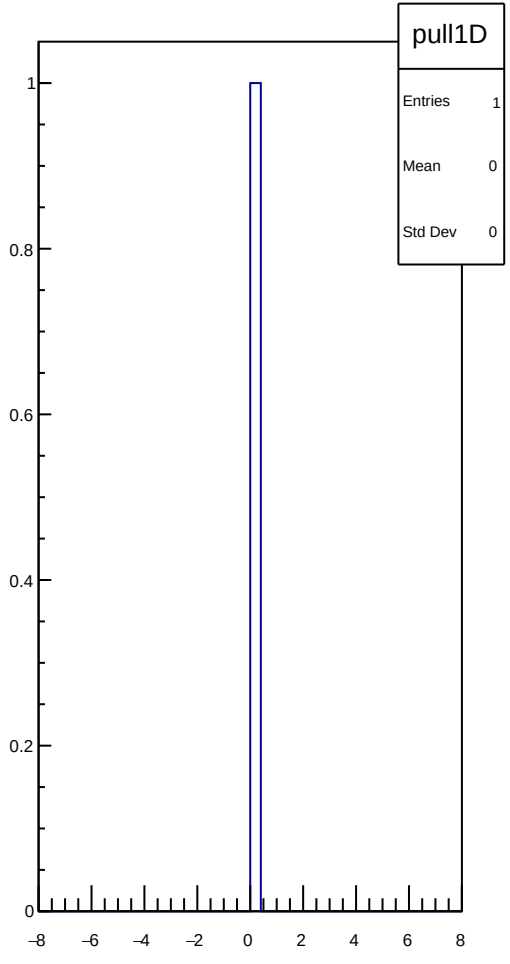

asym_dsr_rms vs run
χ² / ndf 0 / 0
p0 142.7 ± 1.034
143.5
143
142.5
142
141.5
5576. 0

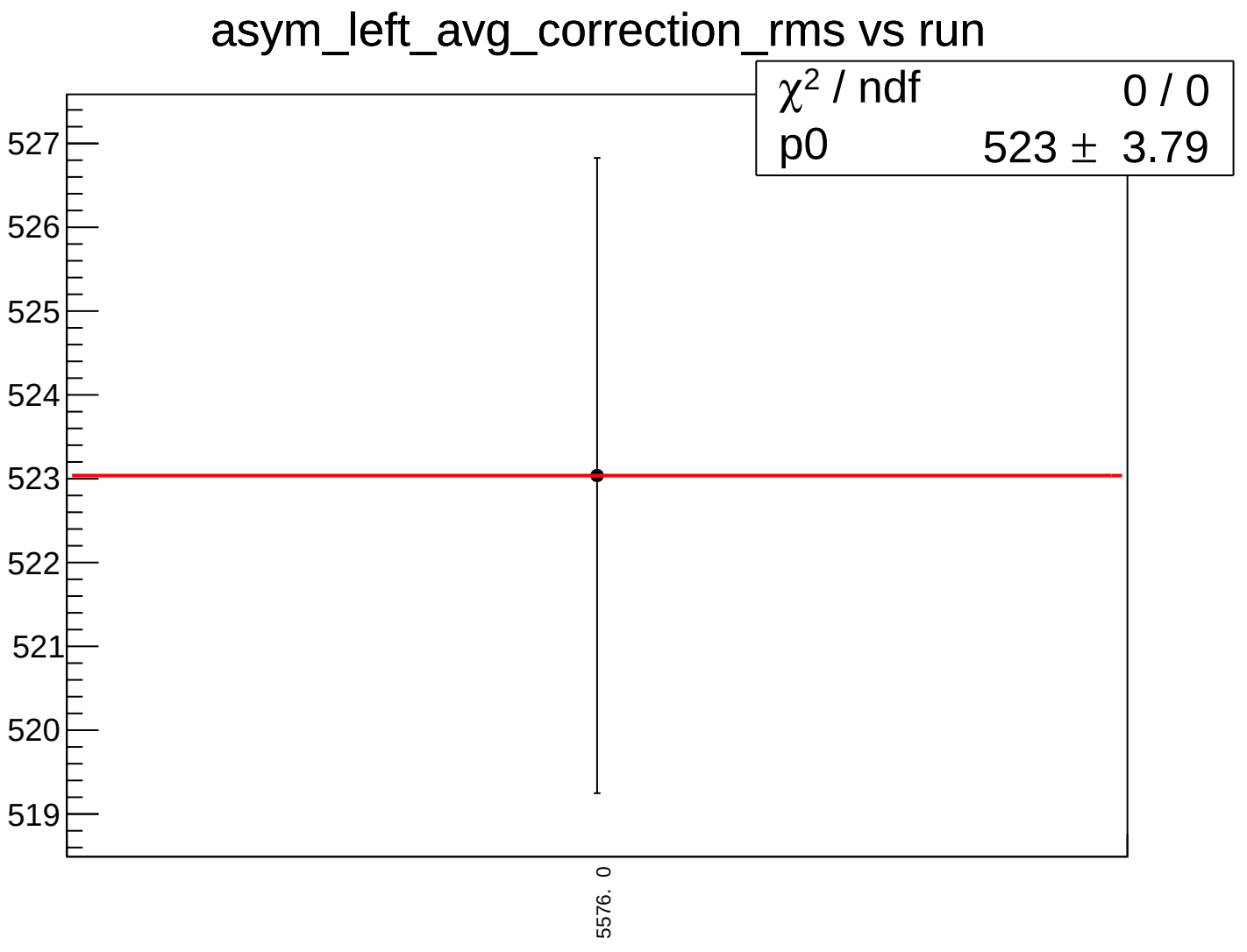

reg_asym_left_avg_mean vs run
χ² / ndf 0 / 0
p0 9284 ± 5976
16000
14000
12000
10000
8000
6000
4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

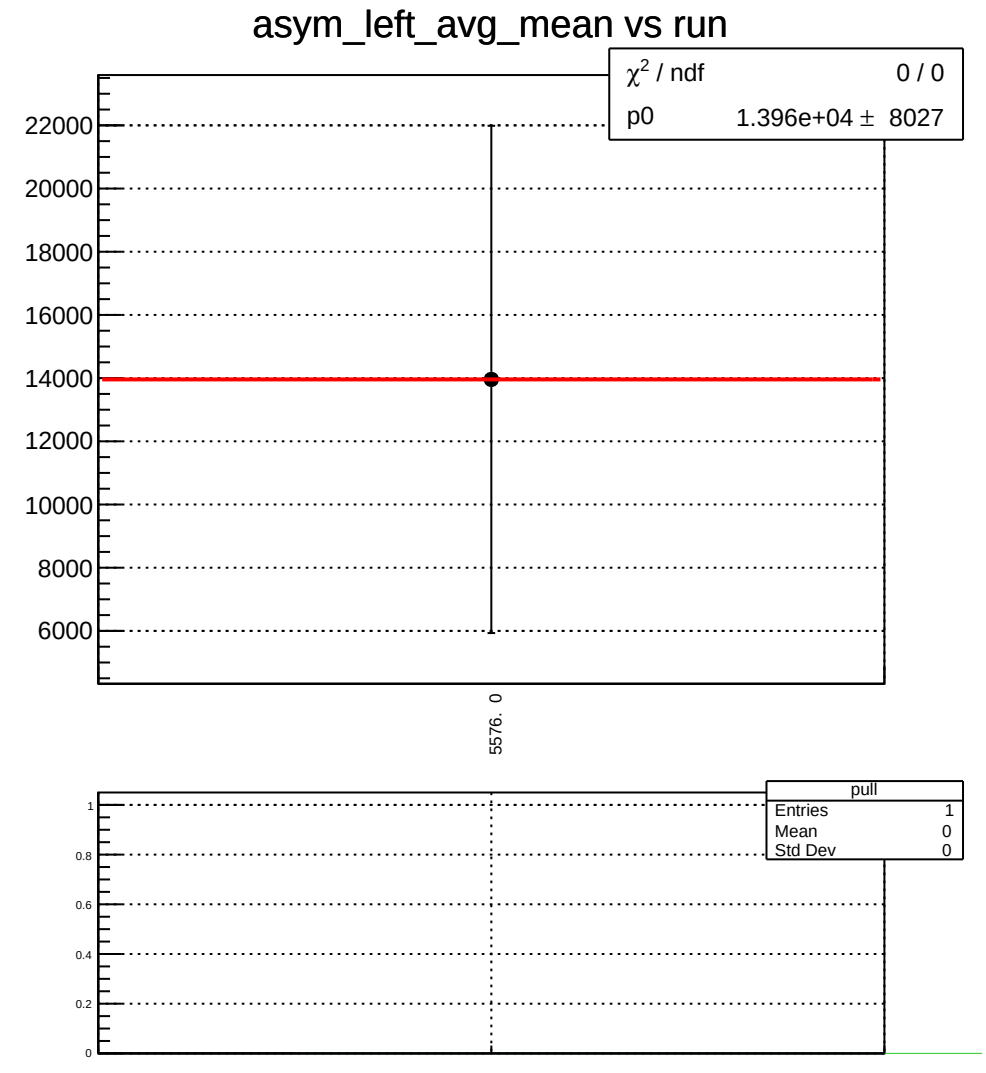

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

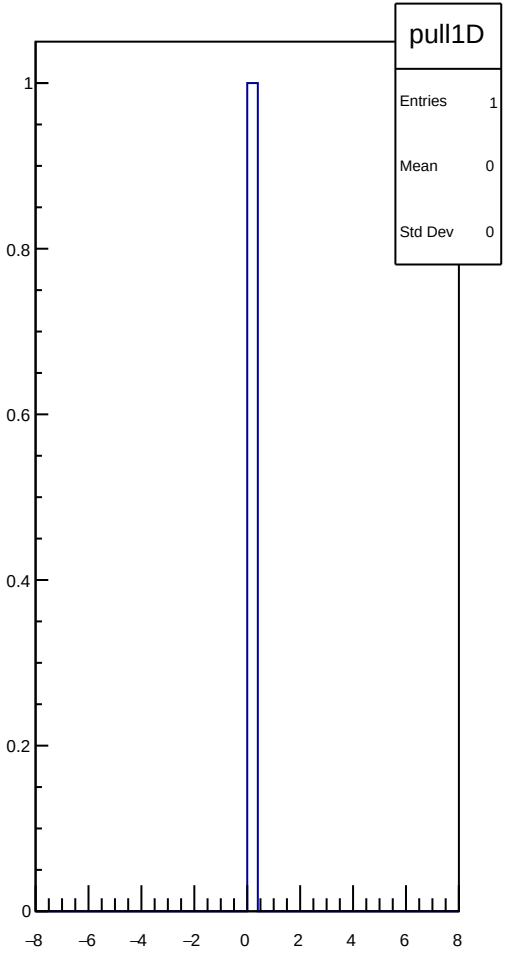

reg_asym_left_avg_rms vs run
χ² / ndf 0 / 0
p0 583.3 ± 4.226
588
586
584
582
580
5576. 0


asym_left_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −4675 ± 5359
0
−2000
−4000
−6000
−8000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_left_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 523 ± 3.79
527
526
525
524
523
522
521
520
519
5576. 0


asym_left_avg_mean vs run
χ² / ndf 0 / 0
p0 1.396e+04 ± 8027
22000
20000
18000
16000
14000
12000
10000
8000
6000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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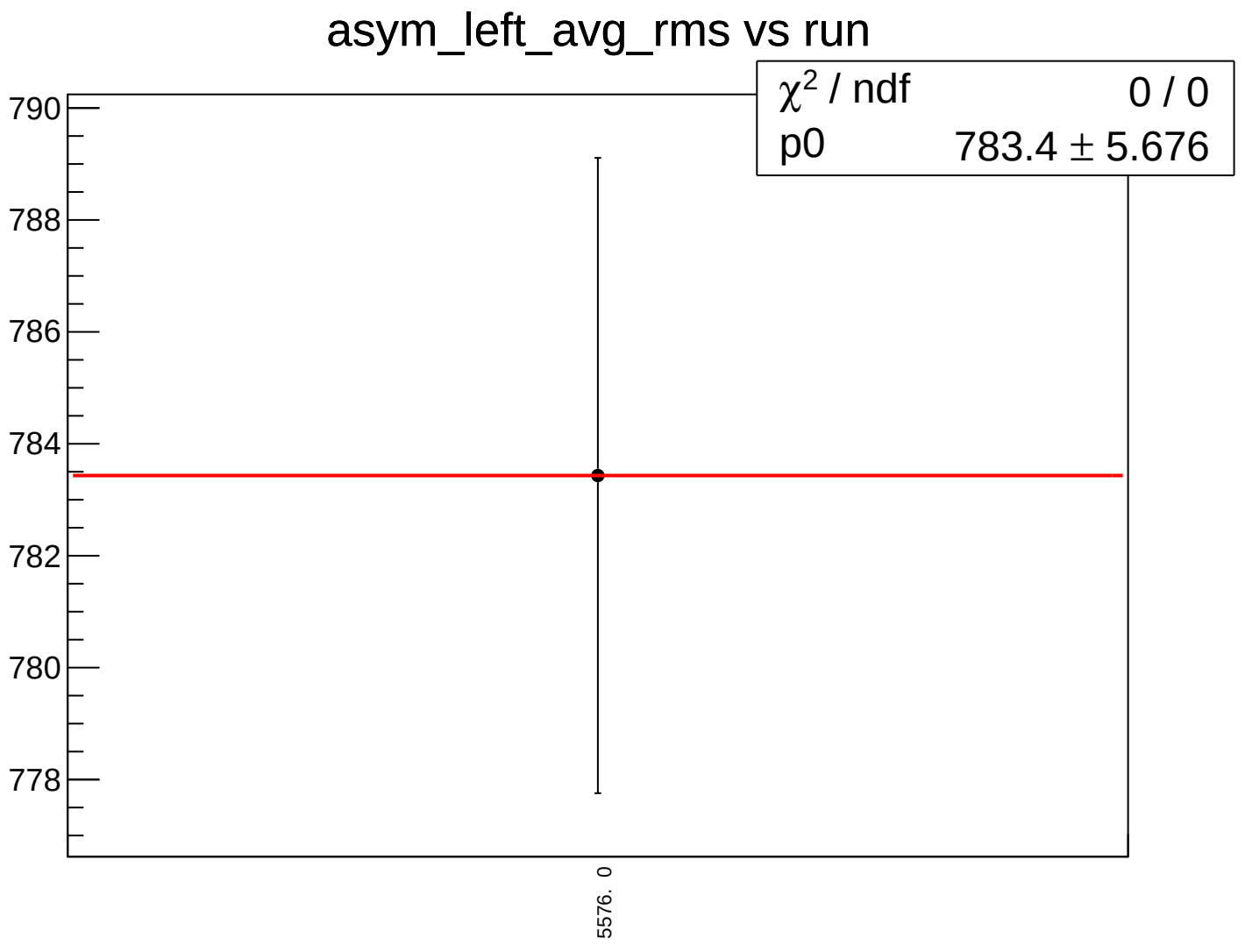
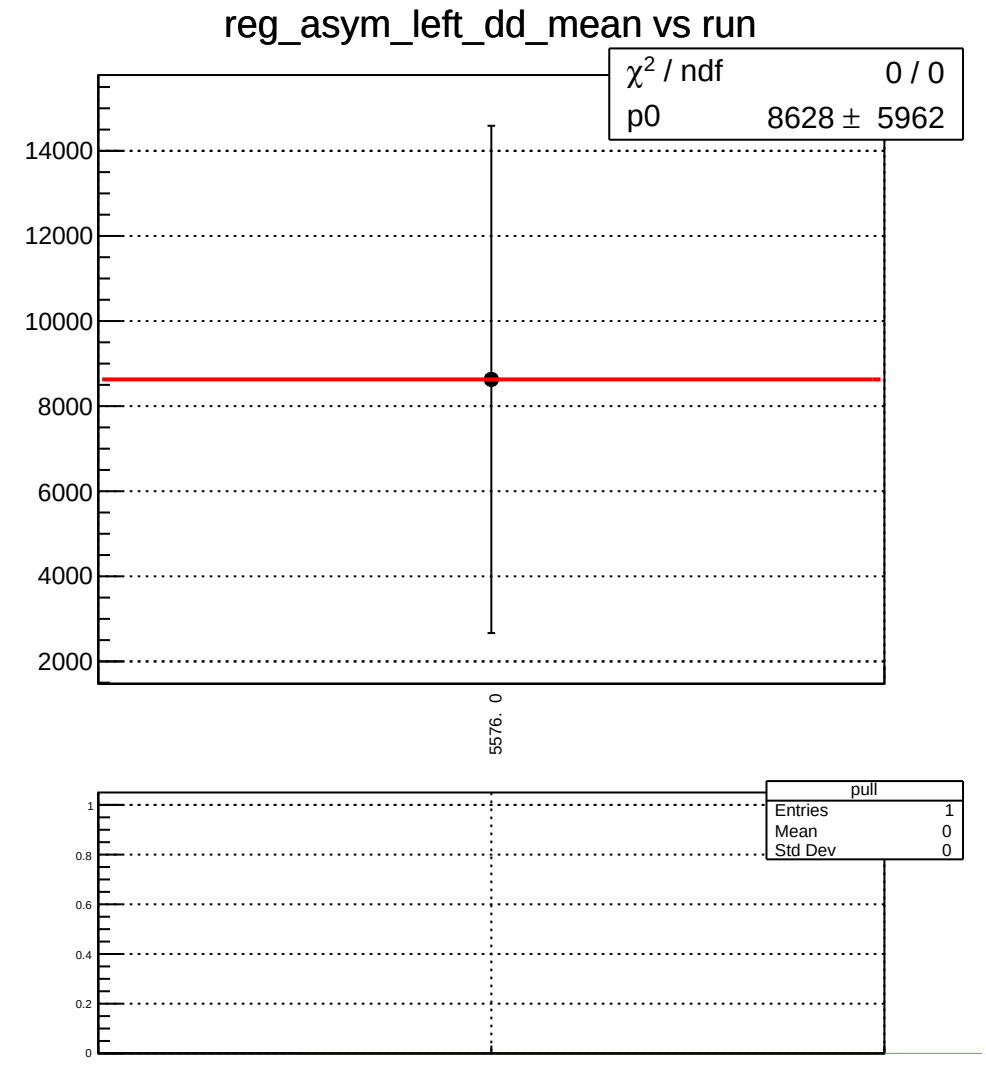
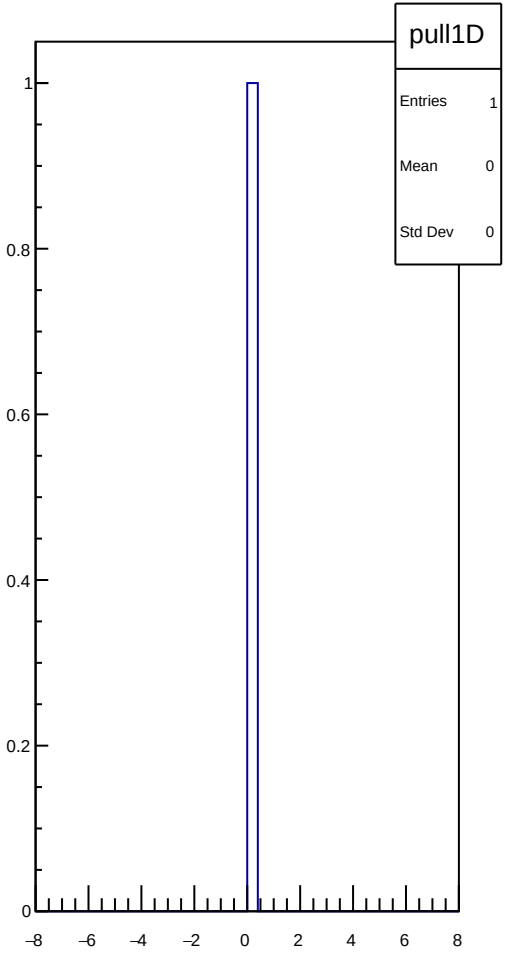
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 0 / 0
p0 783.4 ± 5.676
790
788
786
784
782
780
778
5576. 0


reg_asym_left_dd_mean vs run
χ² / ndf 0 / 0
p0 8628 ± 5962
14000
12000
10000
8000
6000
4000
2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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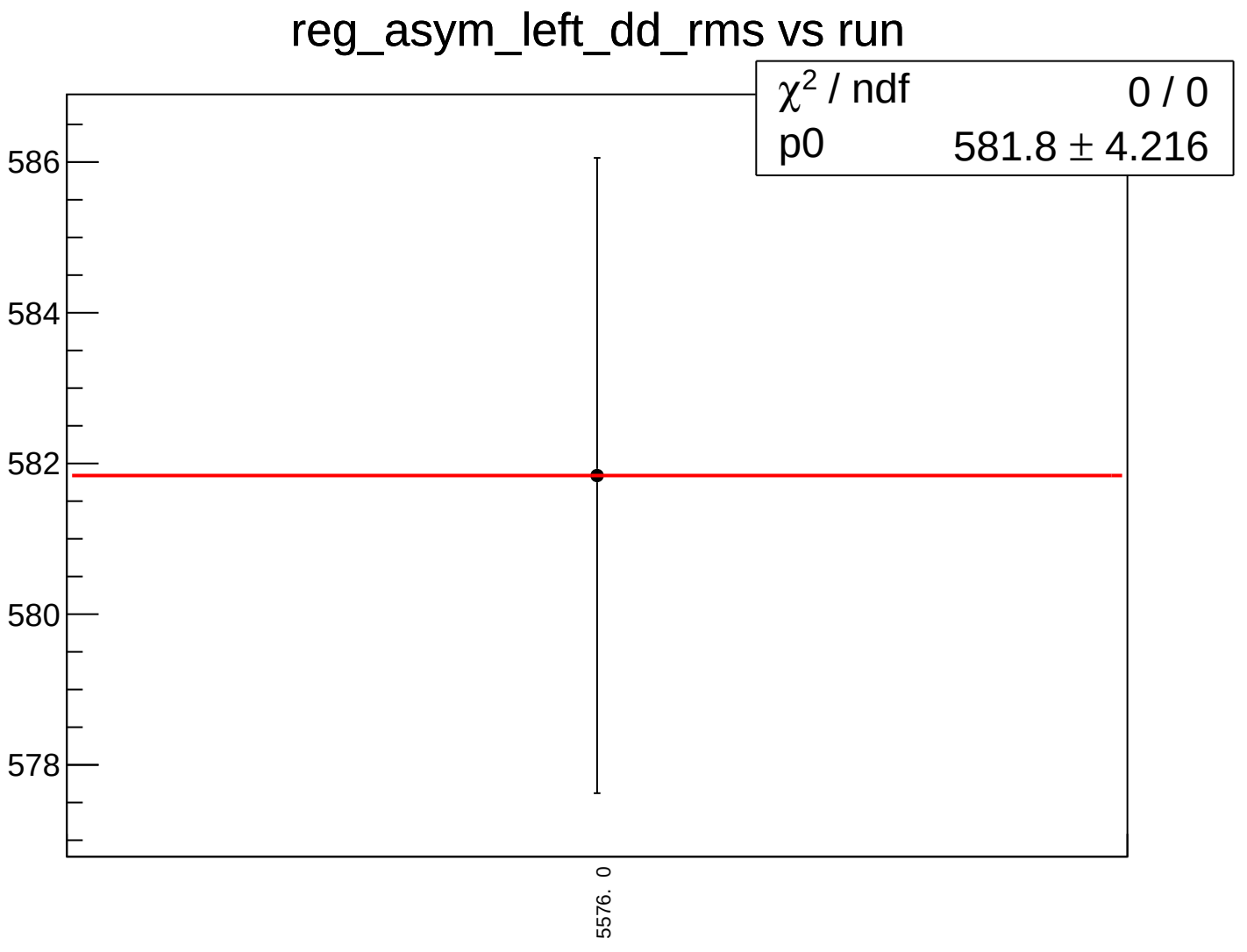
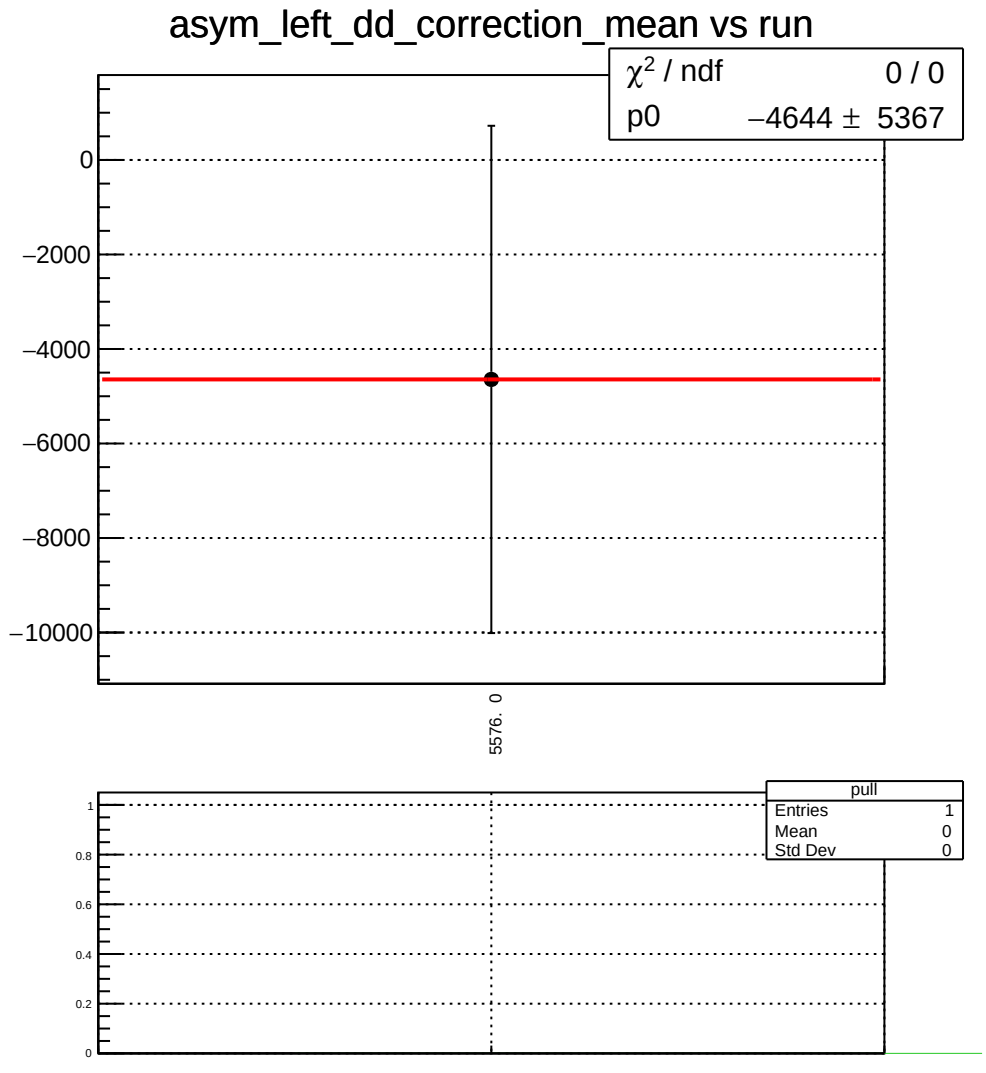
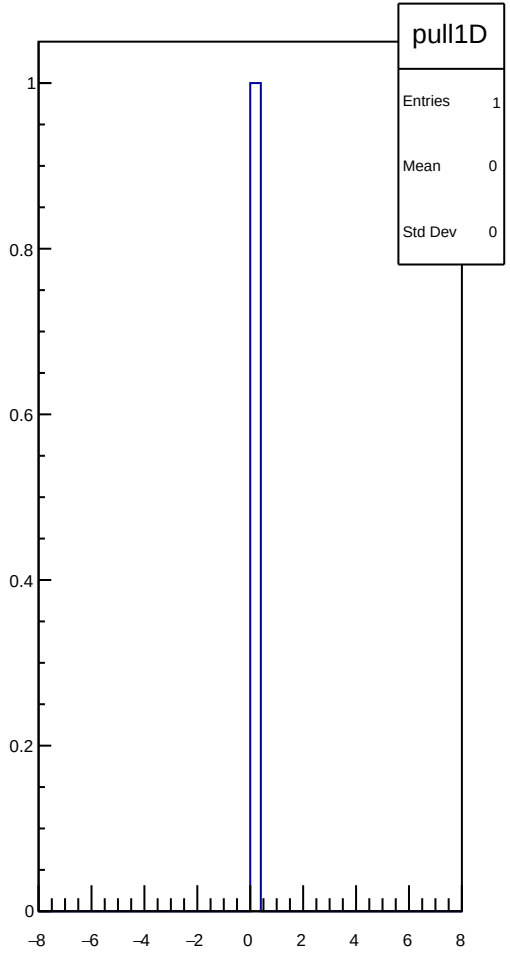
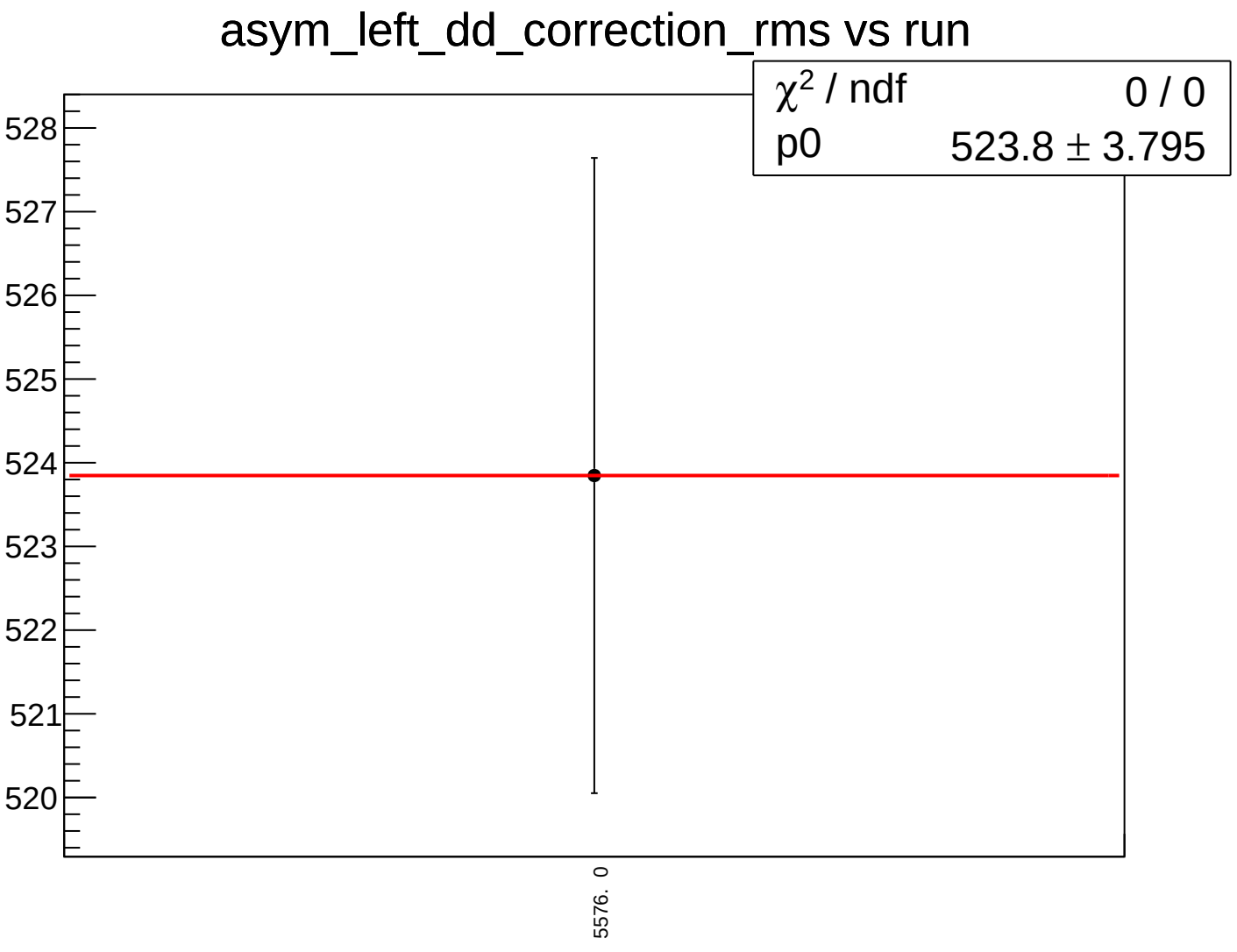
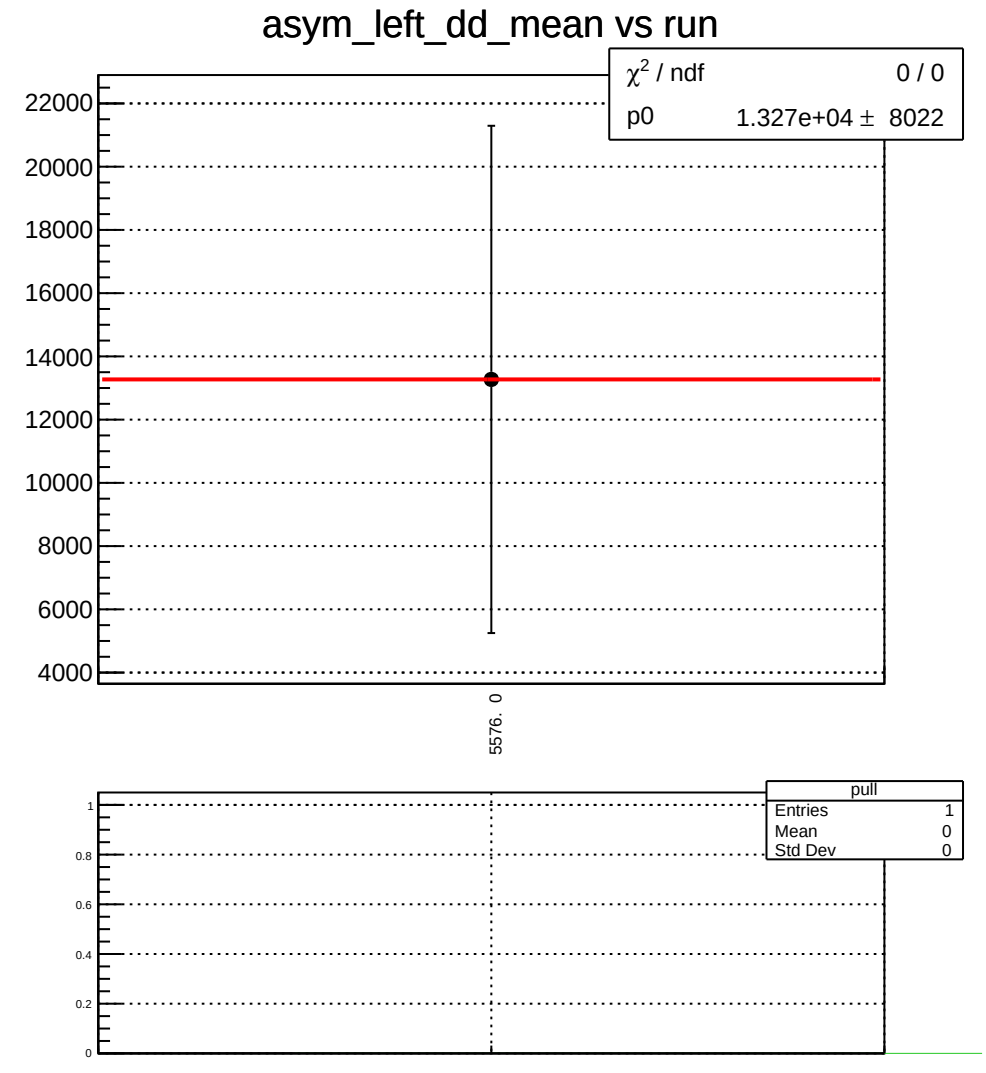
0
2
4
6
8

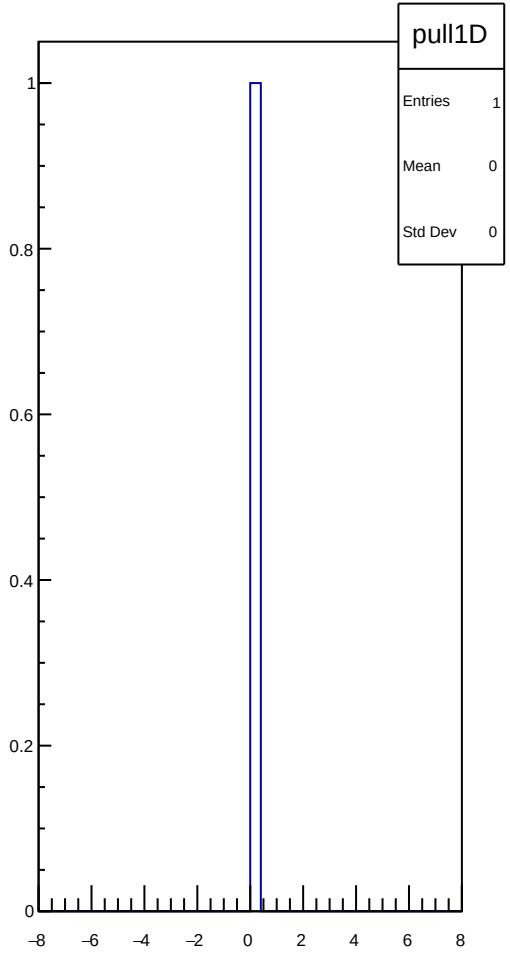

reg_asym_left_dd_rms vs run
χ² / ndf 0 / 0
p0 581.8 ± 4.216
586
584
582
580
578
5576. 0

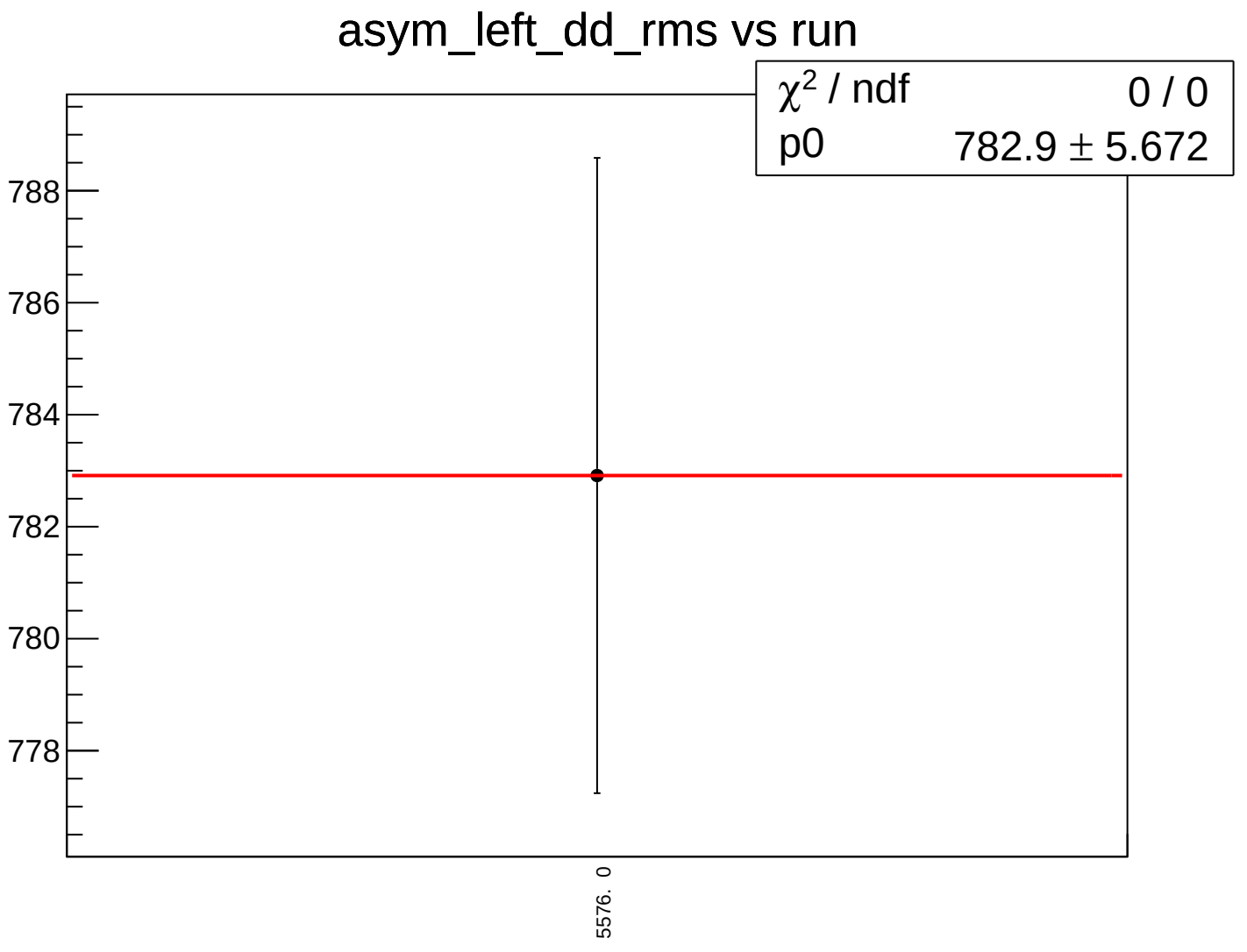

asym_left_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −4644 ± 5367
0
−2000
−4000
−6000
−8000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

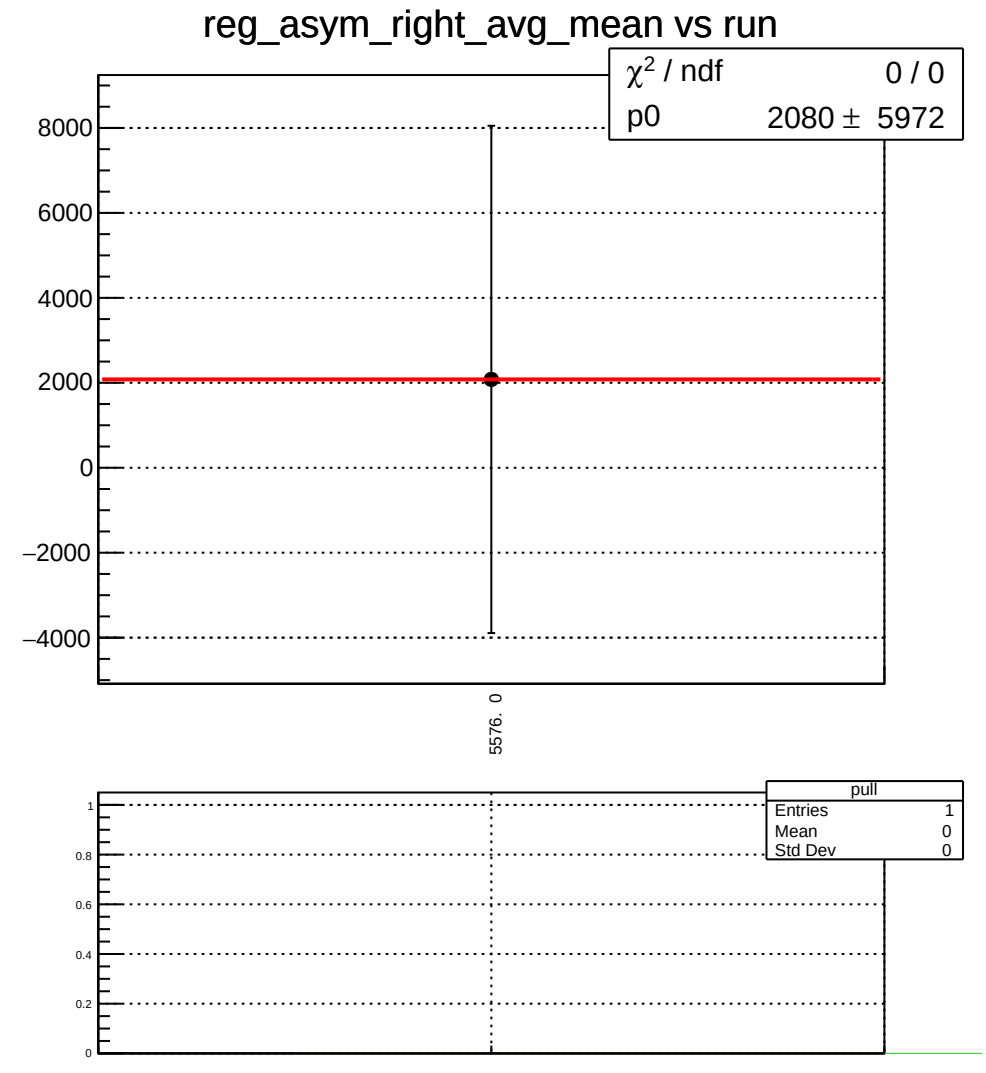

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

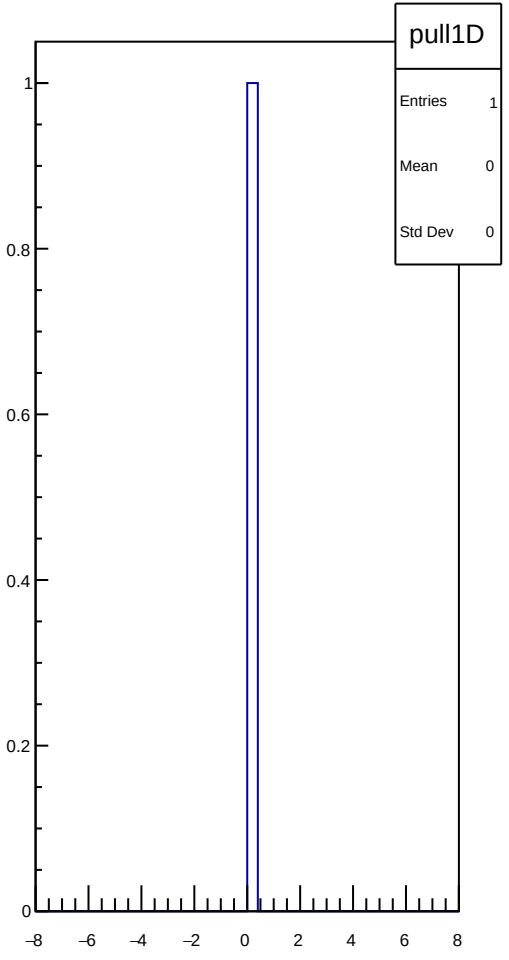

asym_left_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 523.8 ± 3.795
528
527
526
525
524
523
522
521
520
5576. 0

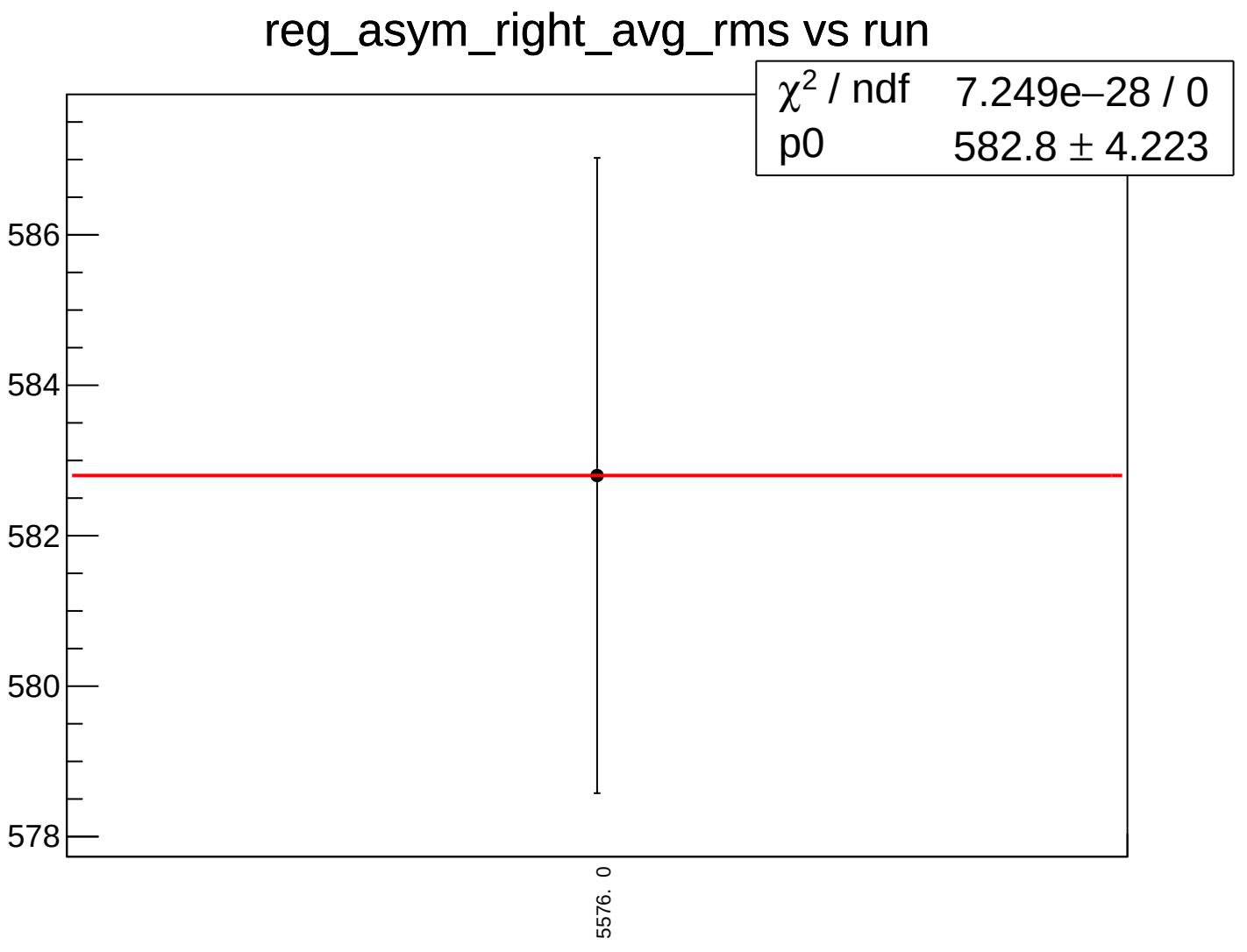

asym_left_dd_mean vs run
χ² / ndf 0 / 0
p0 1.327e+04 ± 8022
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

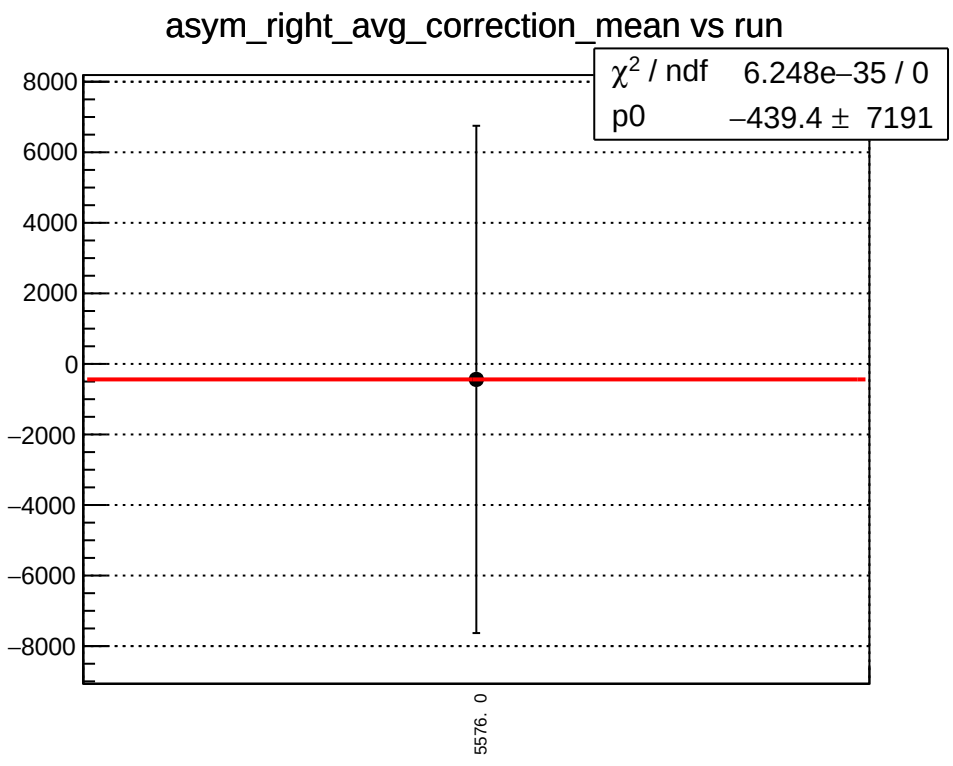

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

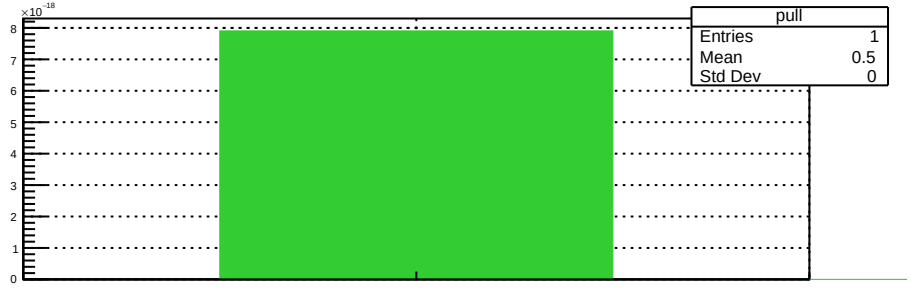

asym_left_dd_rms vs run
χ² / ndf 0 / 0
p0 782.9 ± 5.672
788
786
784
782
780
778
5576. 0

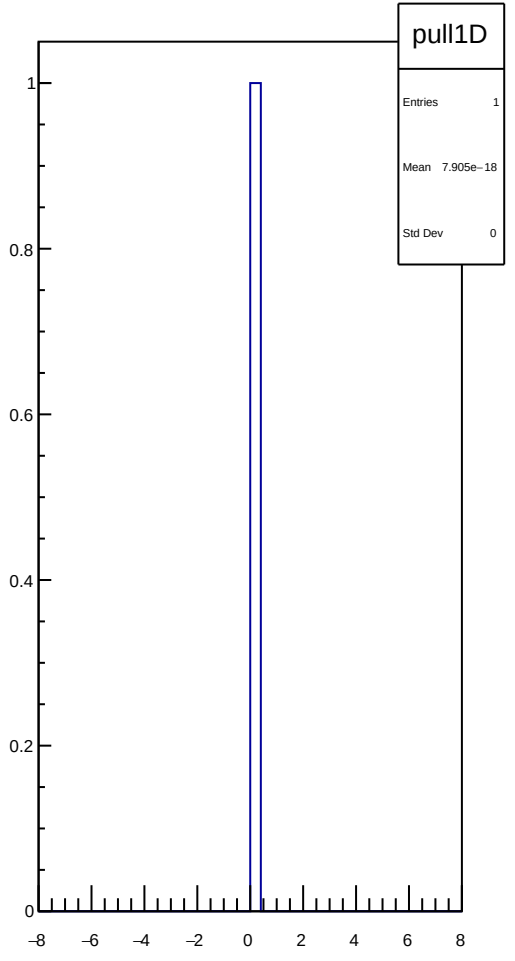

reg_asym_right_avg_mean vs run
χ² / ndf 0 / 0
p0 2080 ± 5972
8000
6000
4000
2000
0
−2000
−4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

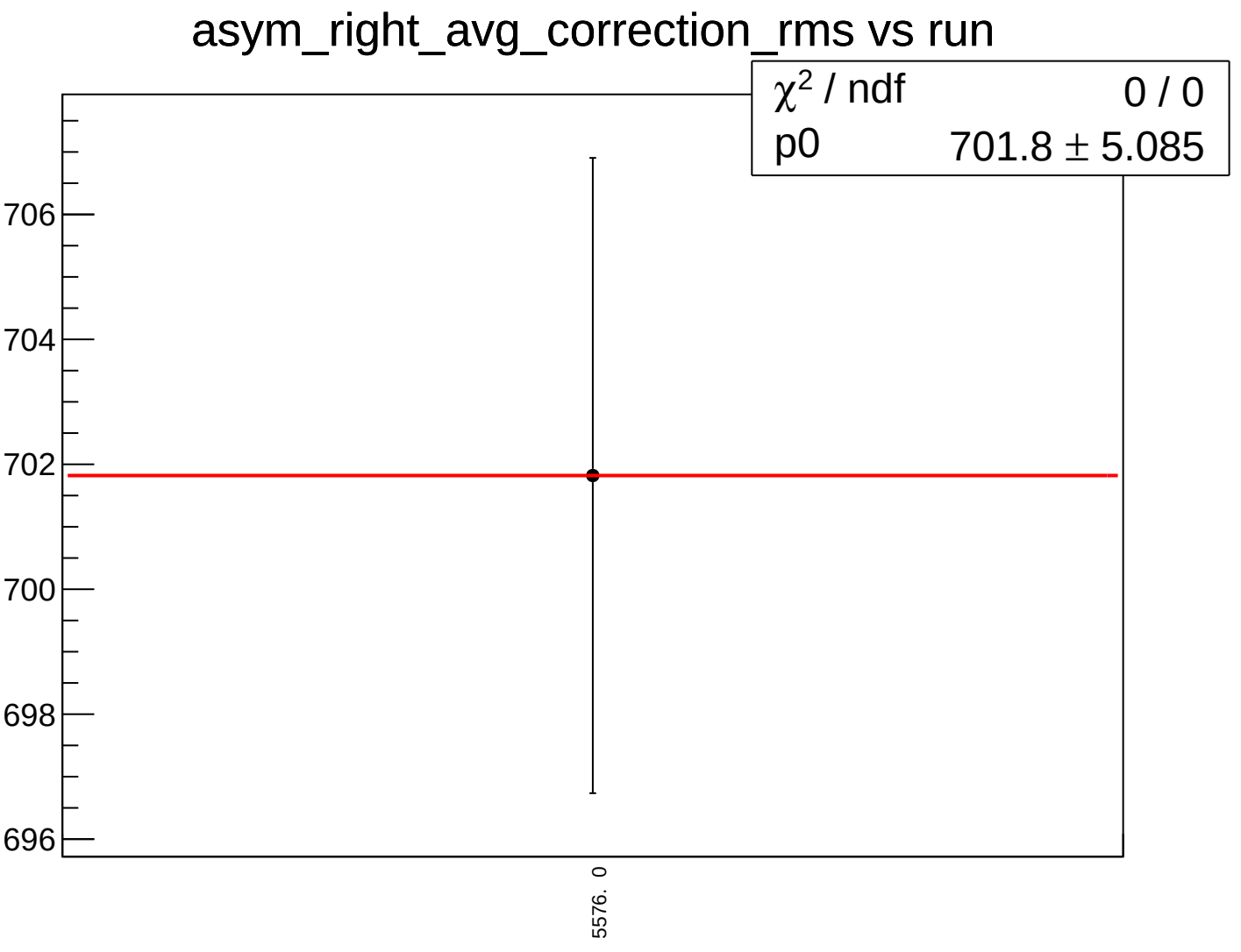

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

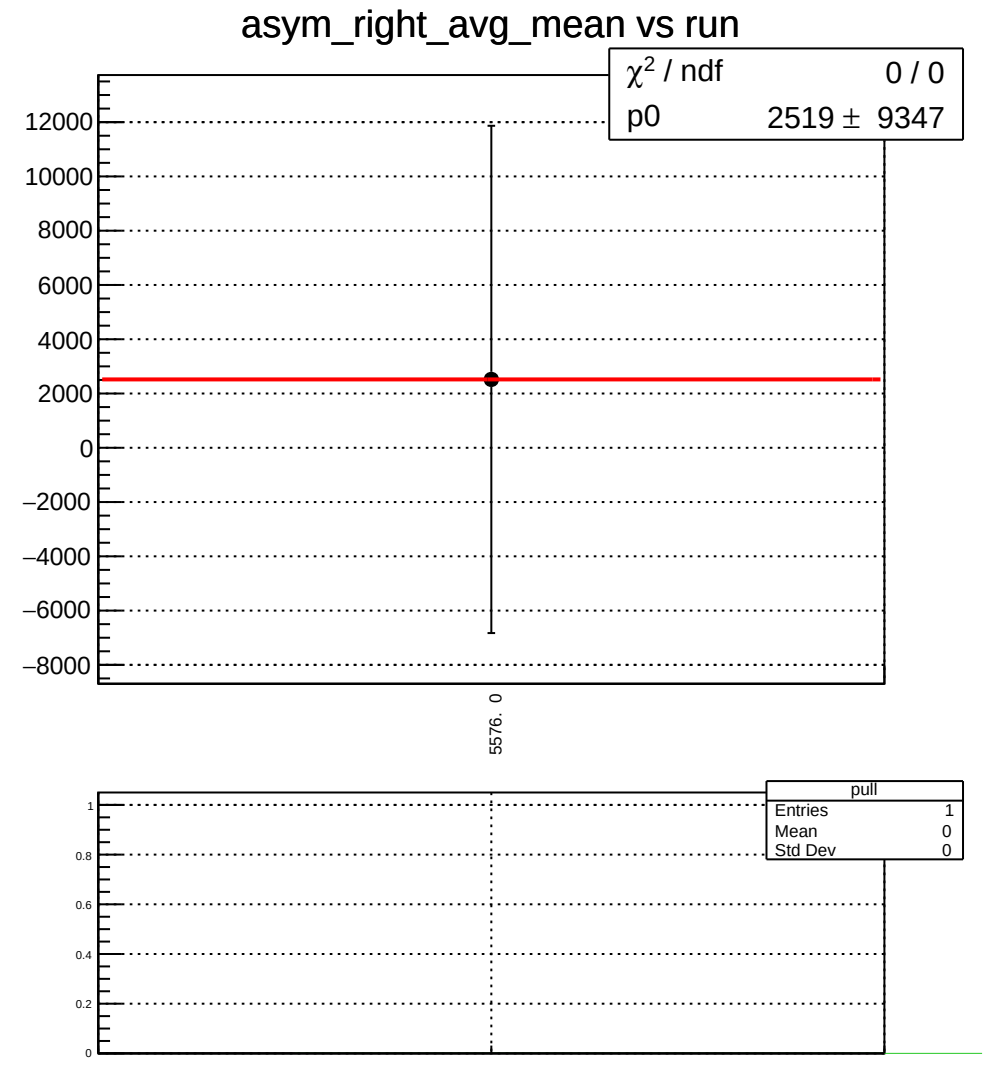

reg_asym_right_avg_rms vs run
χ² / ndf 7.249e−28 / 0
p0 582.8 ± 4.223
586
584
582
580
578
5576. 0

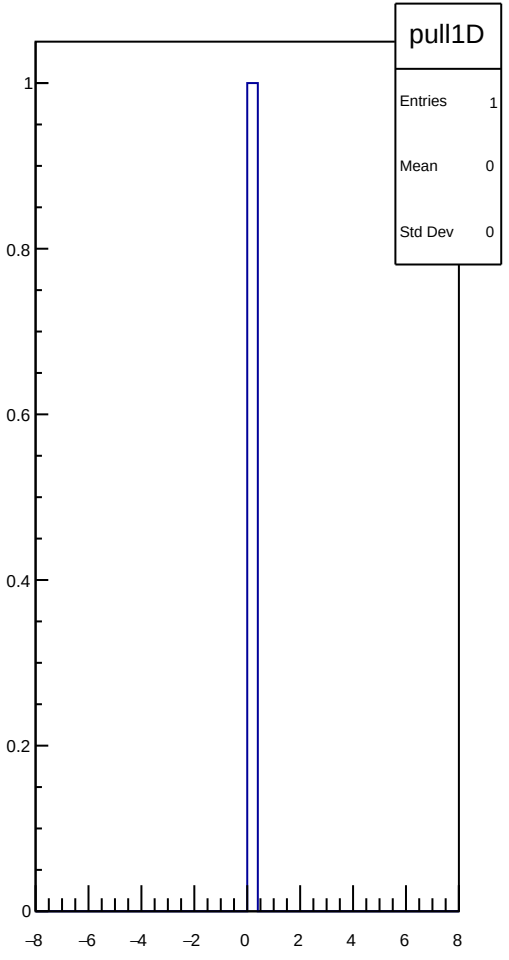

asym_right_avg_correction_mean vs run
χ² / ndf 6.248e−35 / 0
p0 −439.4 ± 7191
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0

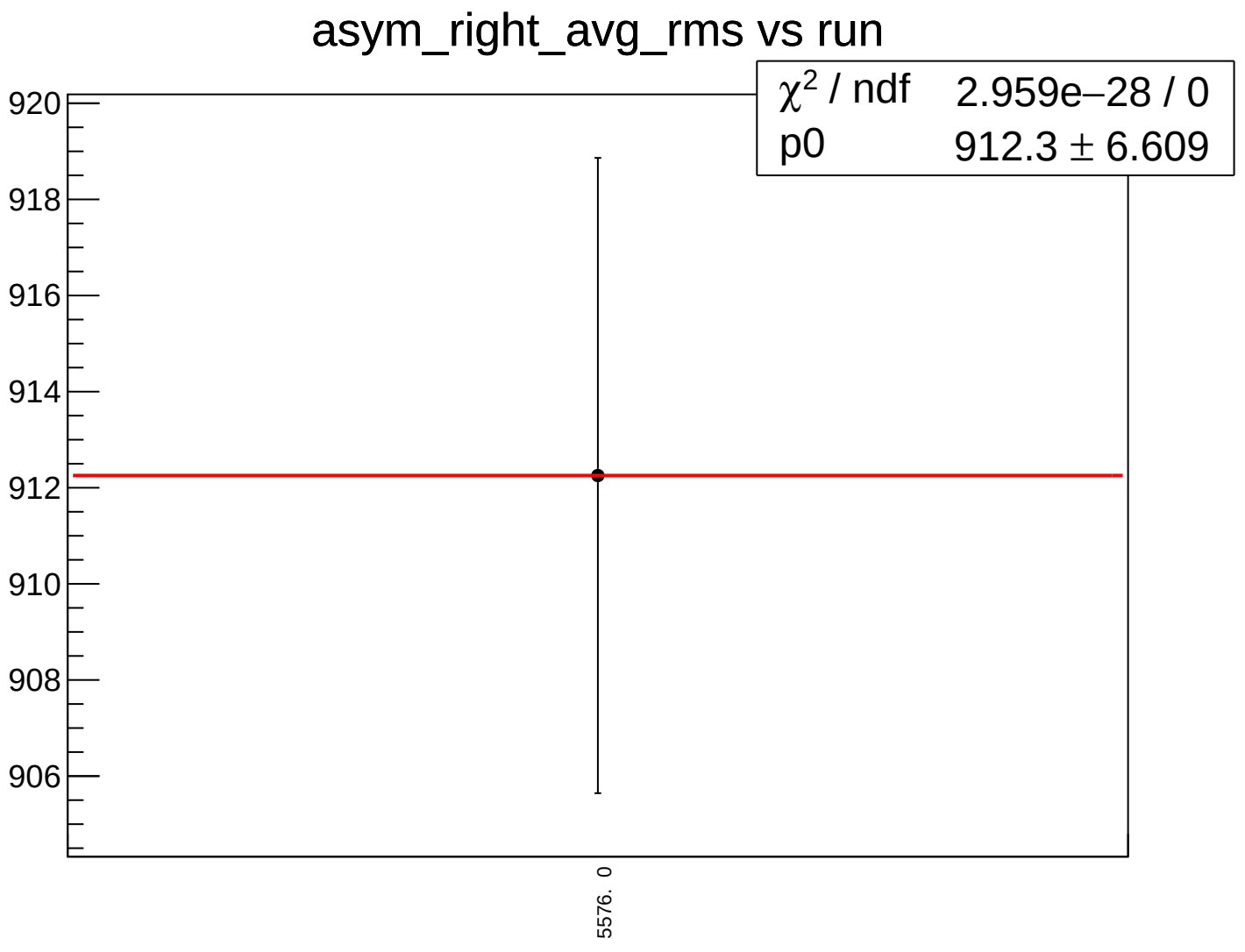

×10⁻¹⁸
8
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0

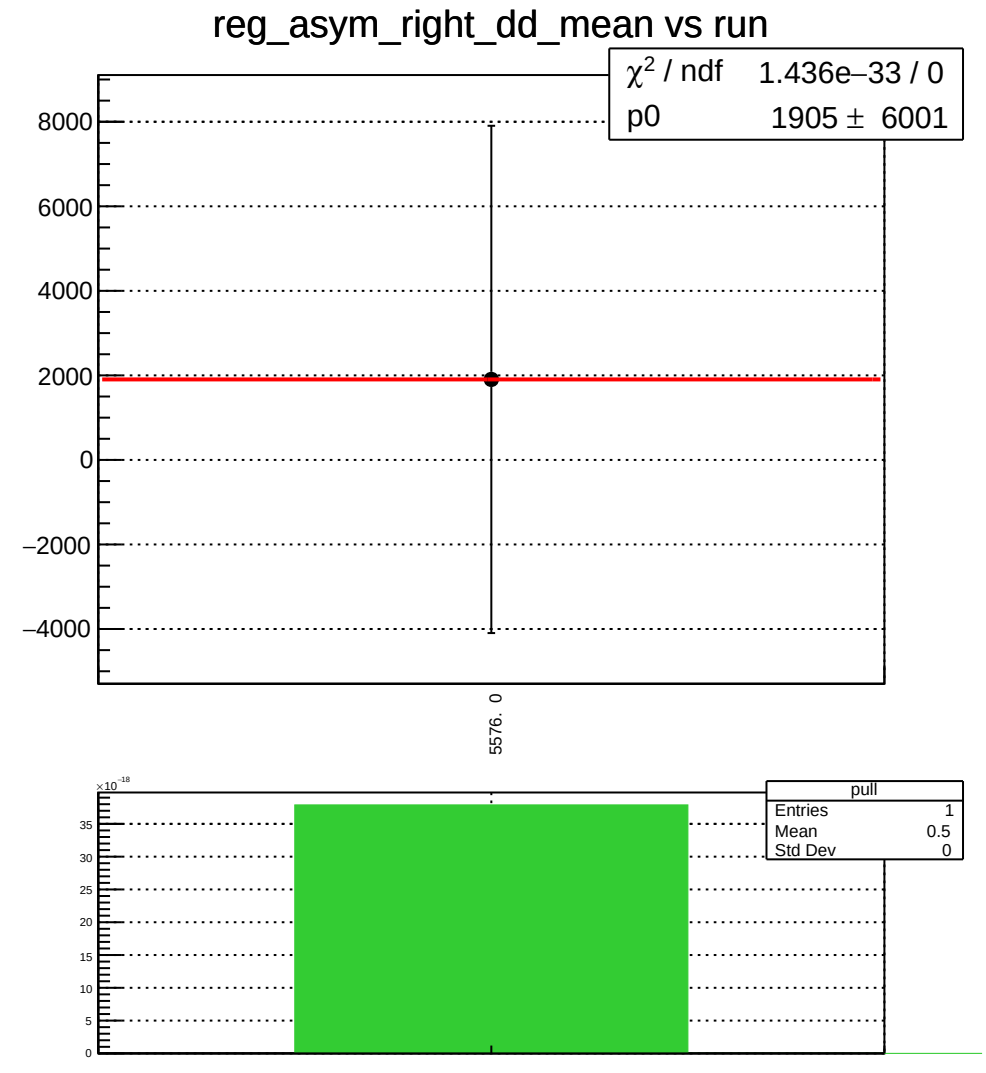

pull1D
Entries 1
Mean 7.905e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

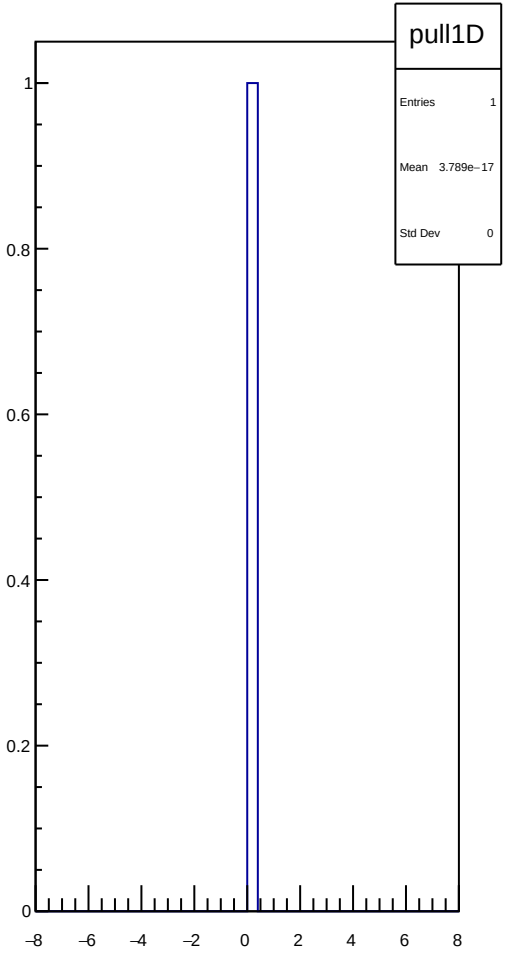

asym_right_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 701.8 ± 5.085
706
704
702
700
698
696
5576. 0

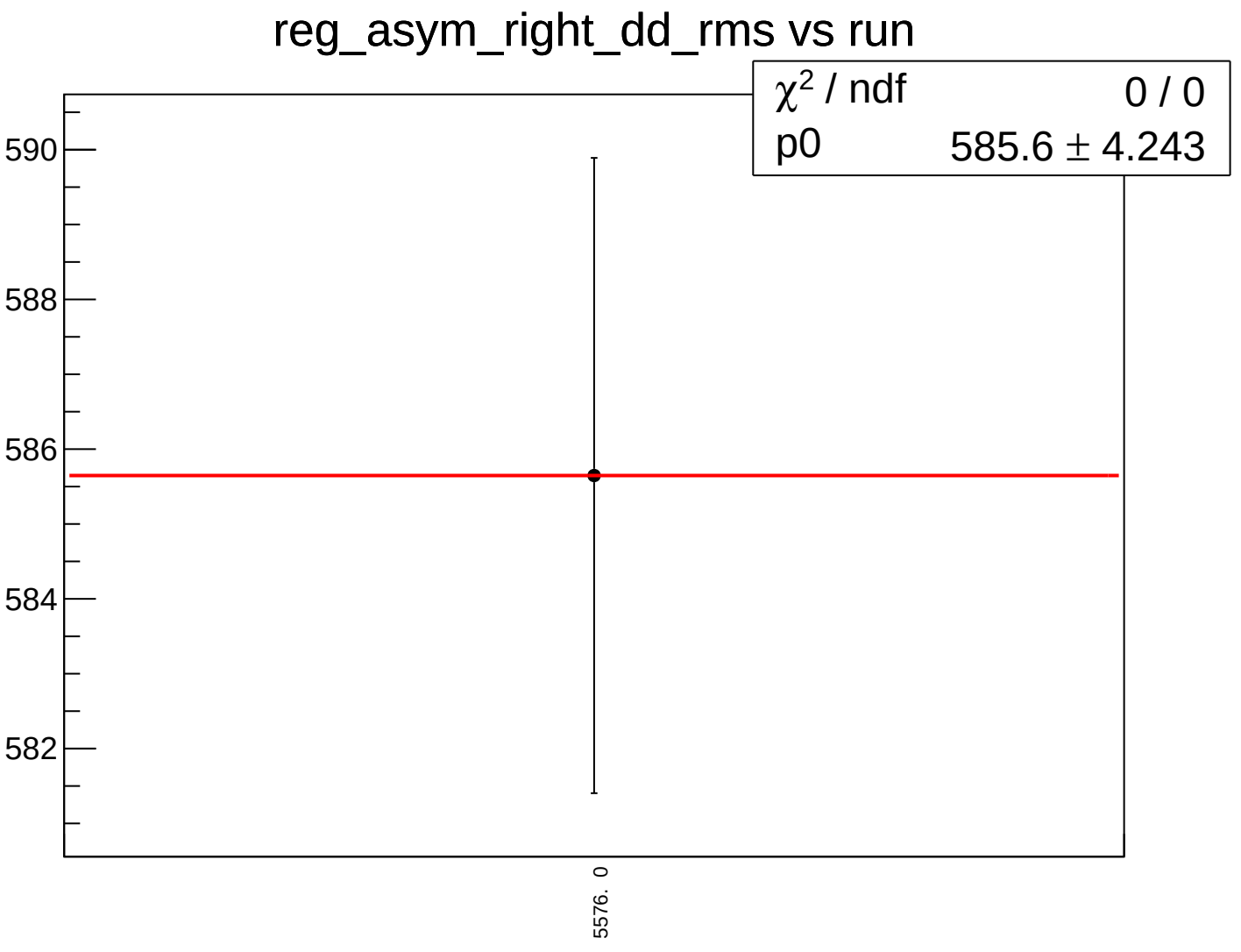

asym_right_avg_mean vs run
χ² / ndf 0 / 0
p0 2519 ± 9347
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

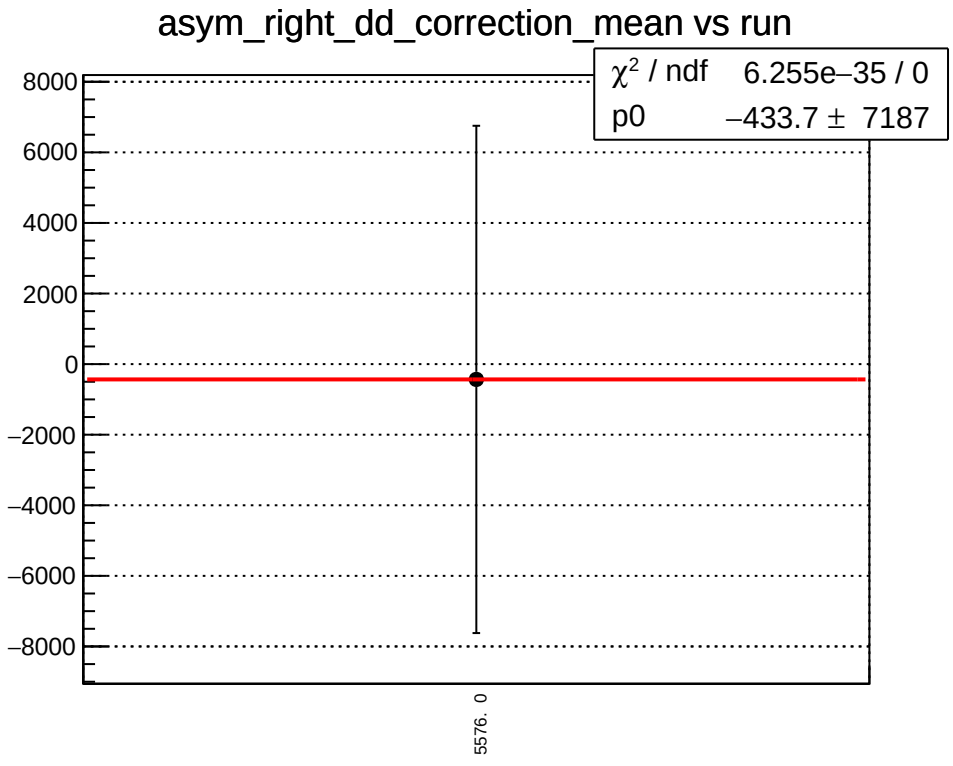

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

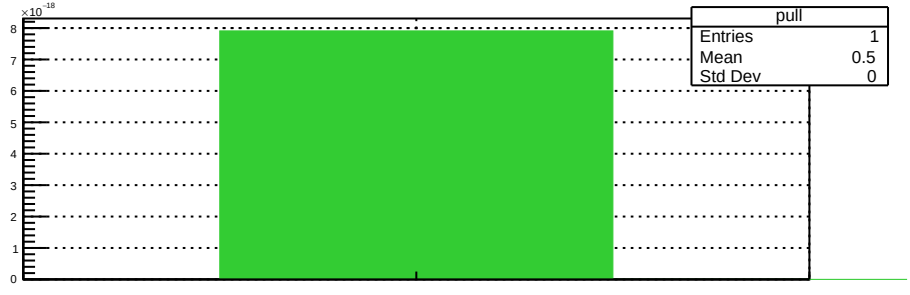

asym_right_avg_rms vs run
χ² / ndf 2.959e−28 / 0
p0 912.3 ± 6.609
920
918
916
914
912
910
908
906
5576. 0

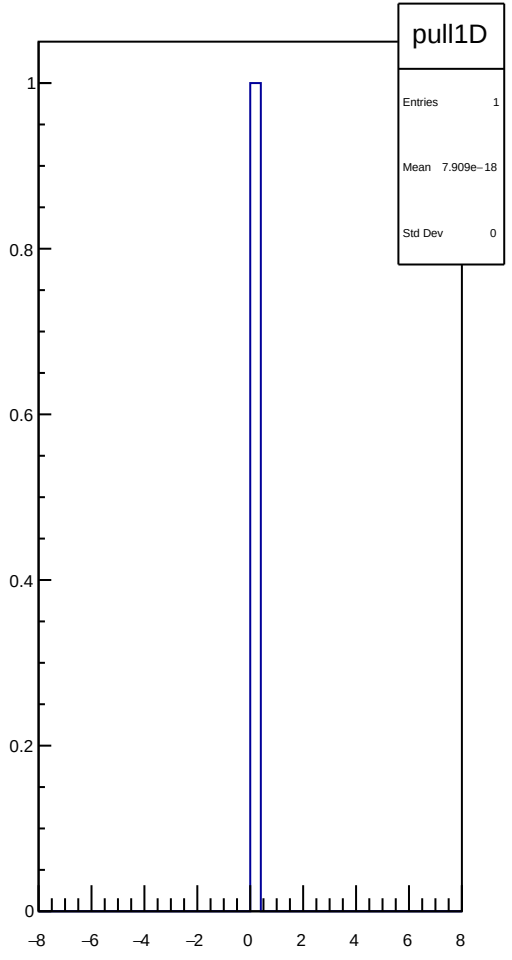

reg_asym_right_dd_mean vs run
χ² / ndf 1.436e−33 / 0
p0 1905 ± 6001
8000
6000
4000
2000
0
−2000
−4000
5576. 0
×10⁻¹⁸
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 3.789e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_rms vs run
χ² / ndf 0 / 0
p0 585.6 ± 4.243
590
588
586
584
582
5576. 0


asym_right_dd_correction_mean vs run
χ² / ndf 6.255e−35 / 0
p0 −433.7 ± 7187
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0


×10⁻¹⁸
8
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 7.909e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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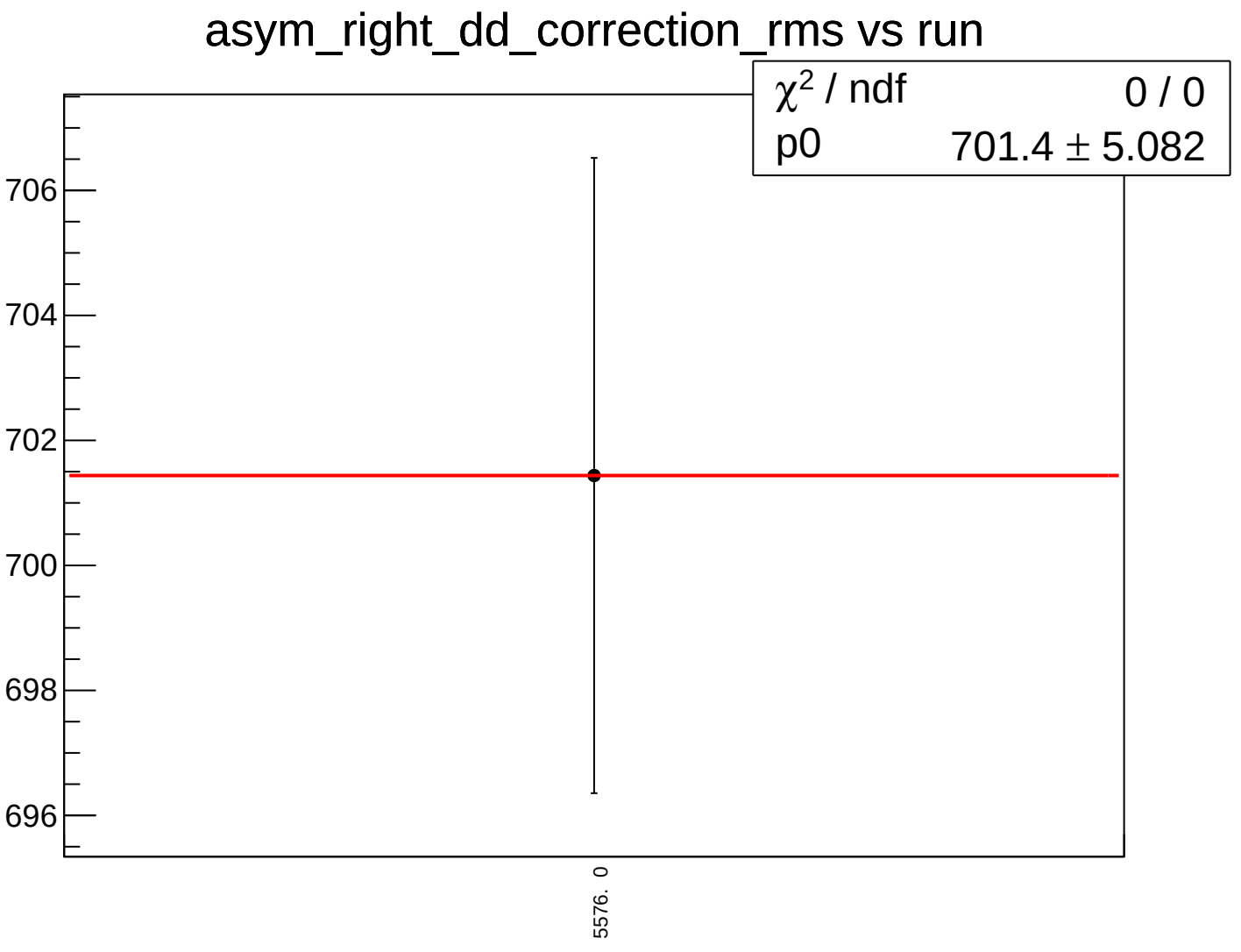
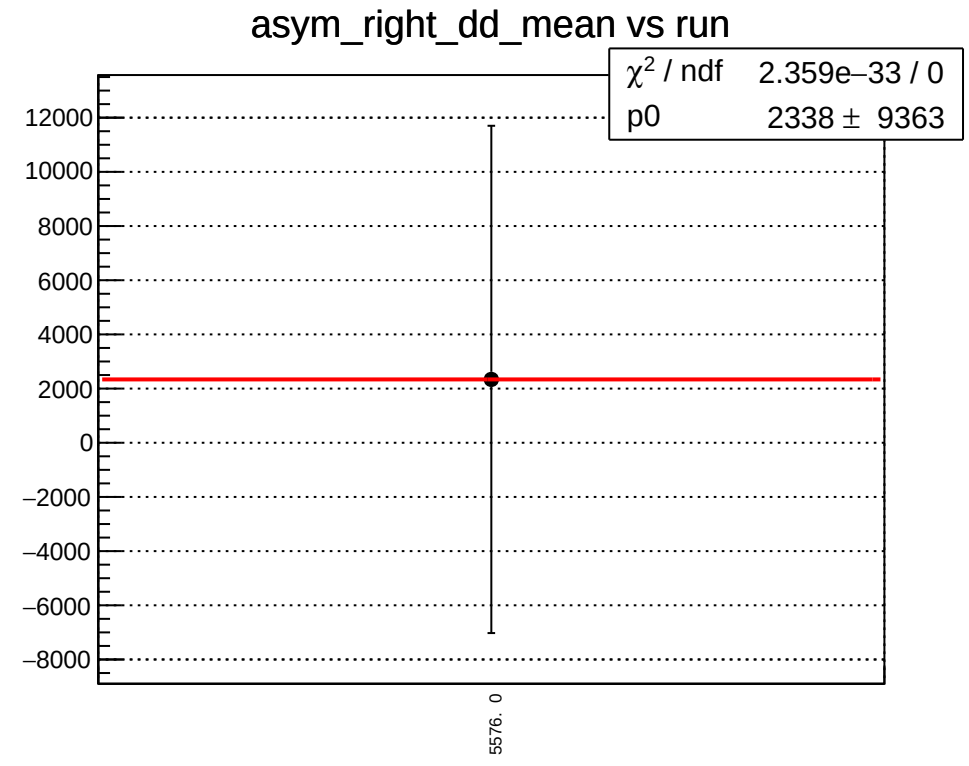
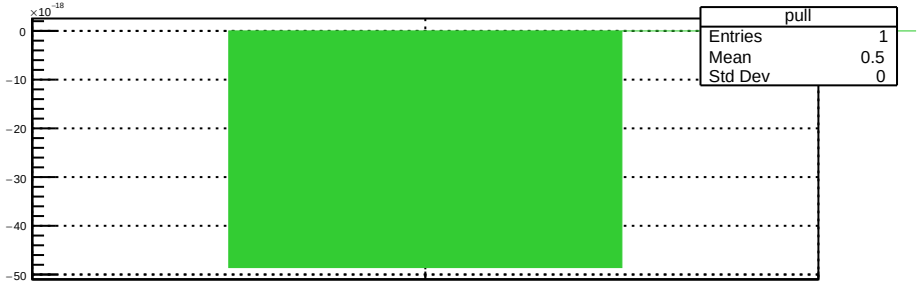
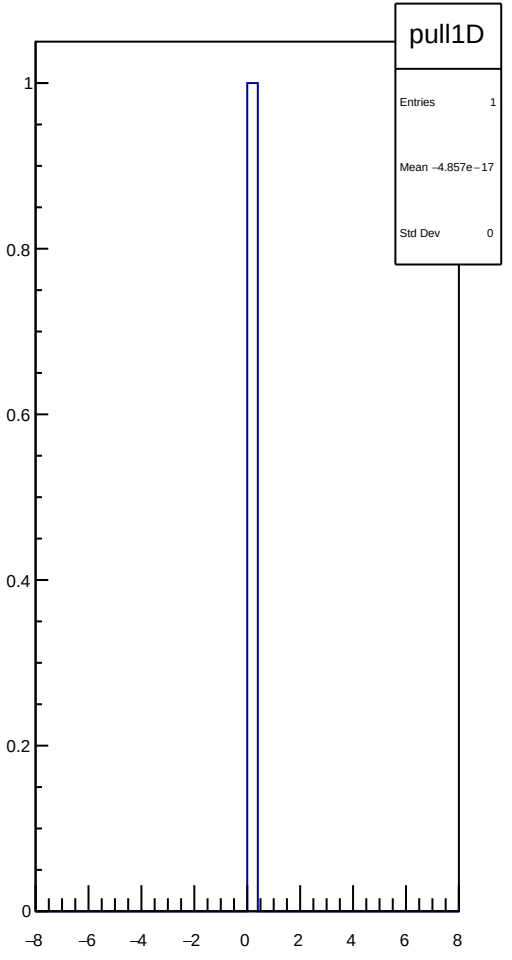
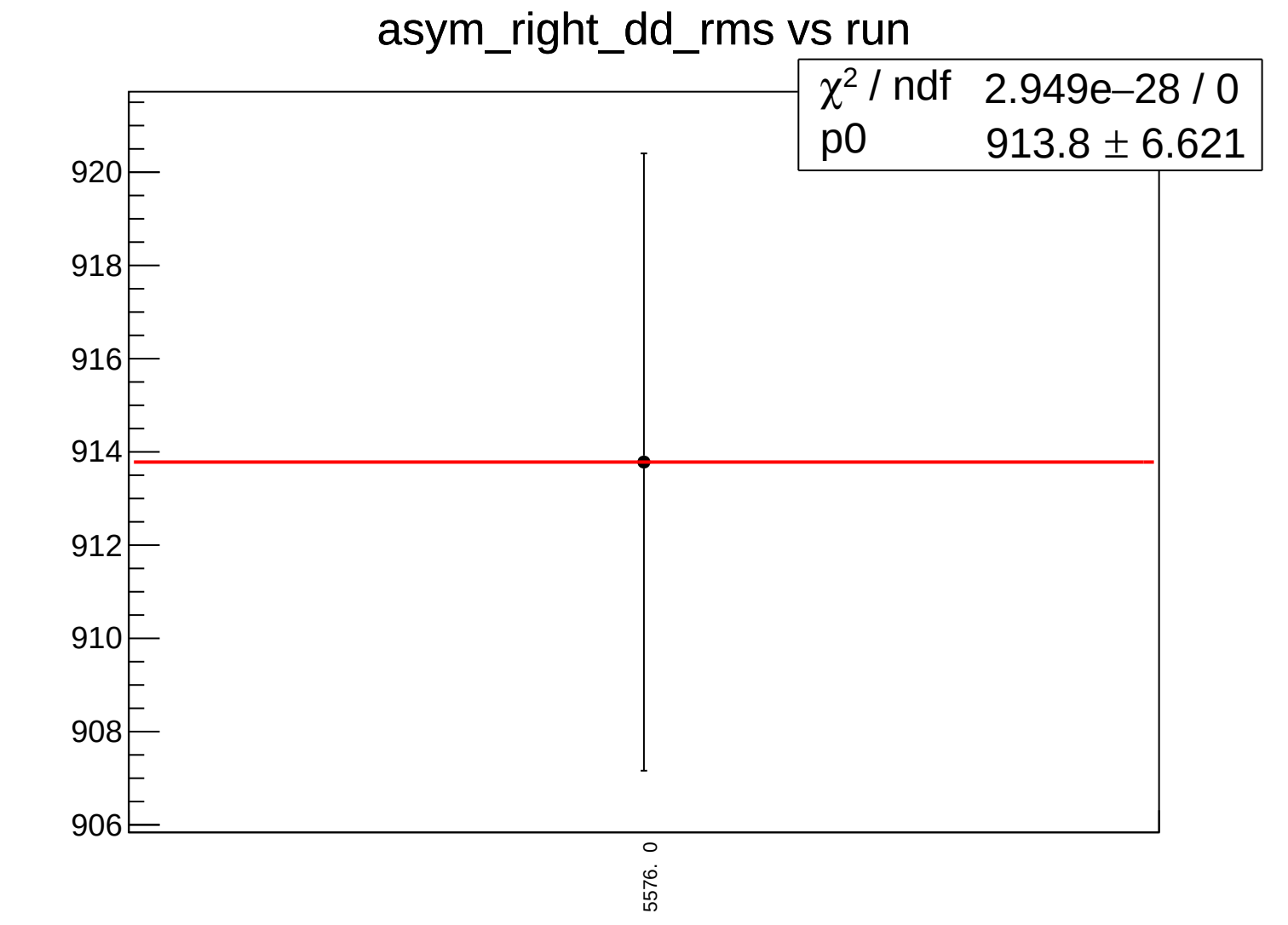
0
2
4
6
8

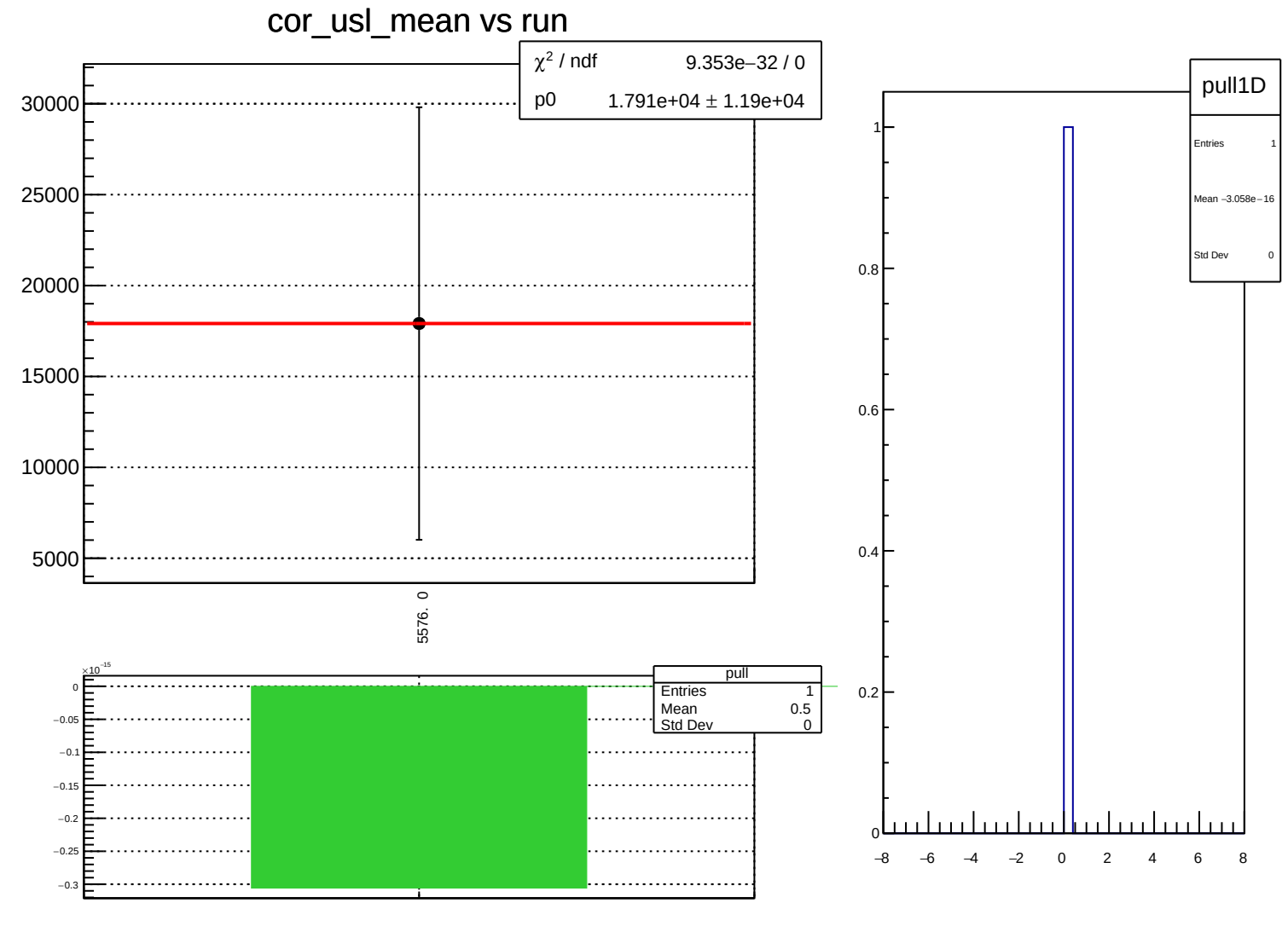

asym_right_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 701.4 ± 5.082
706
704
702
700
698
696
5576. 0

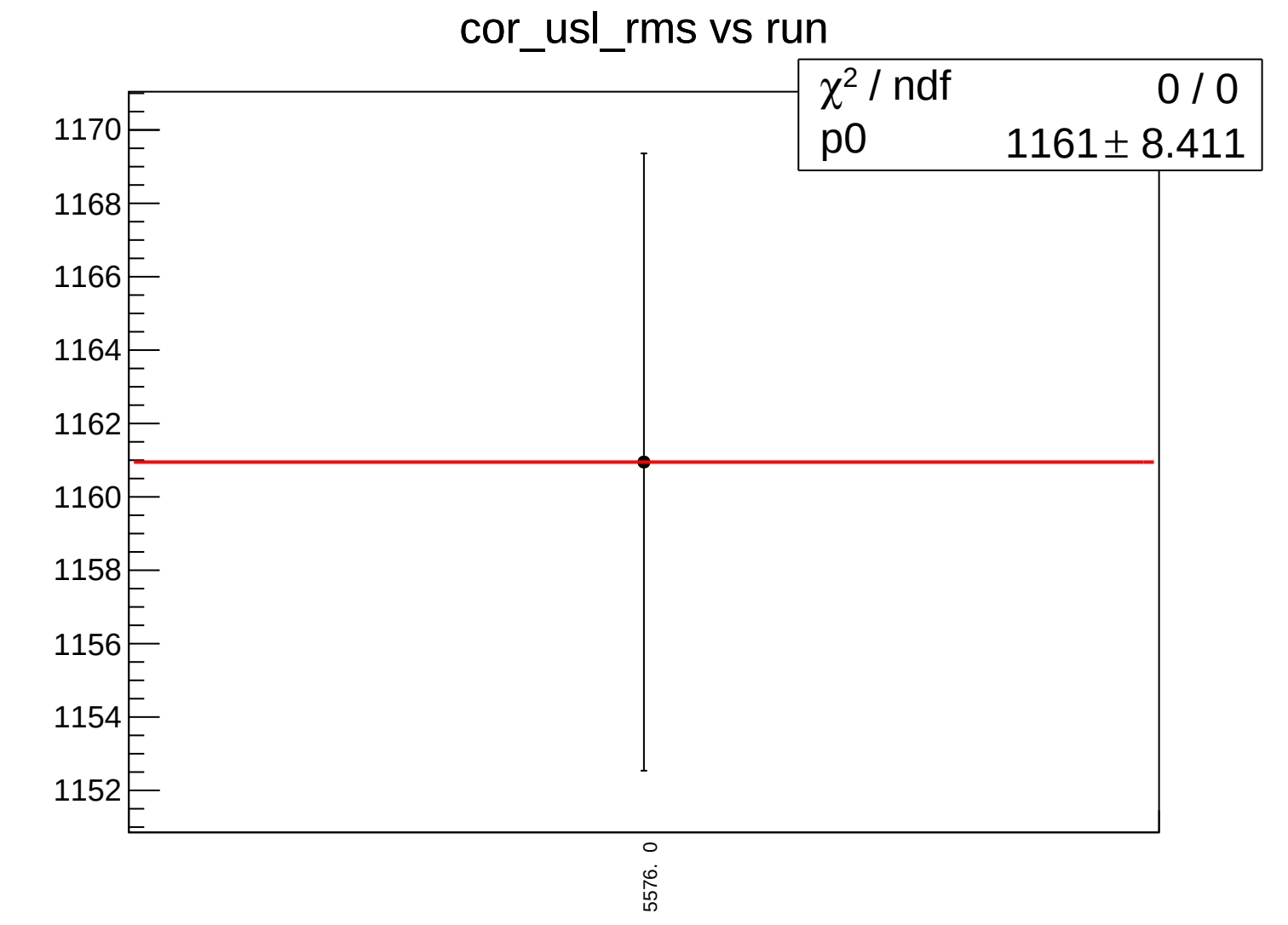

asym_right_dd_mean vs run
χ² / ndf 2.359e−33 / 0
p0 2338 ± 9363
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0

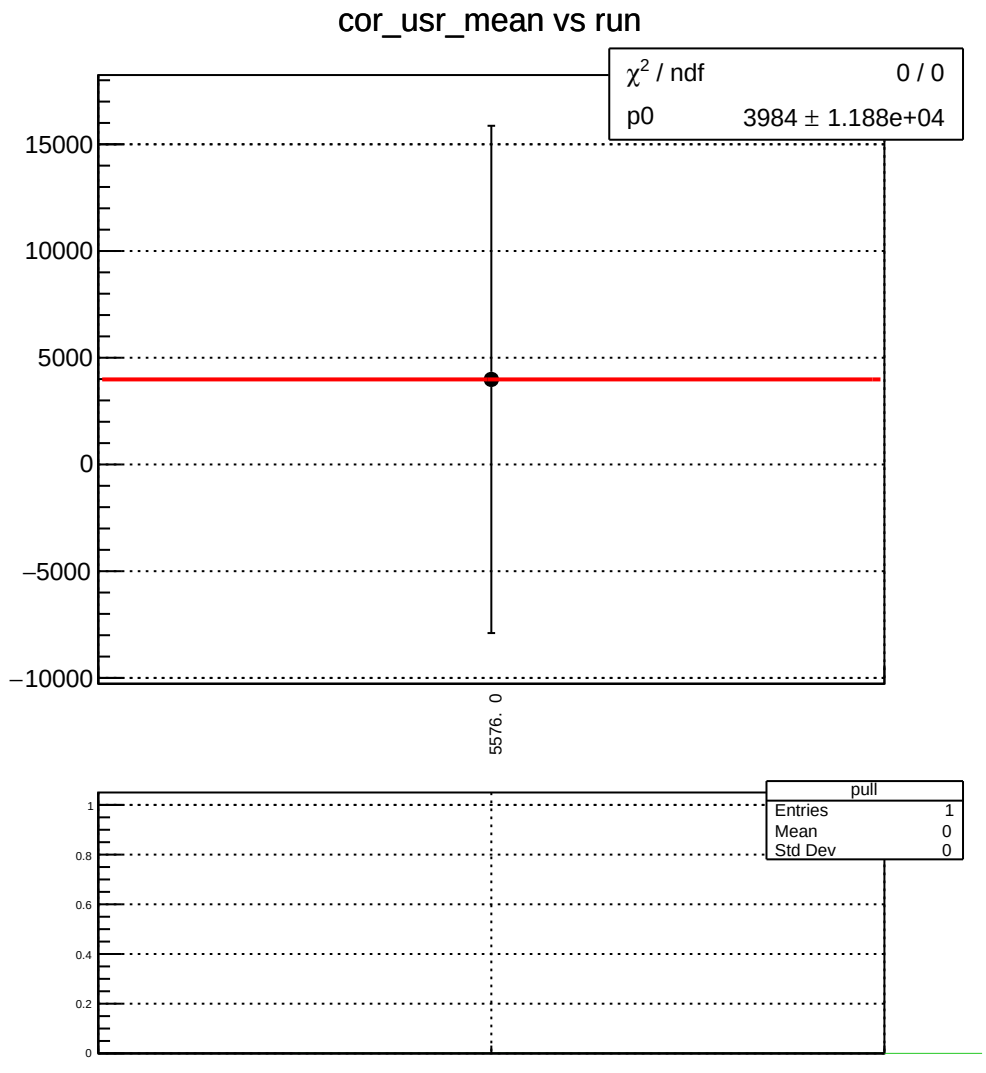

×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0

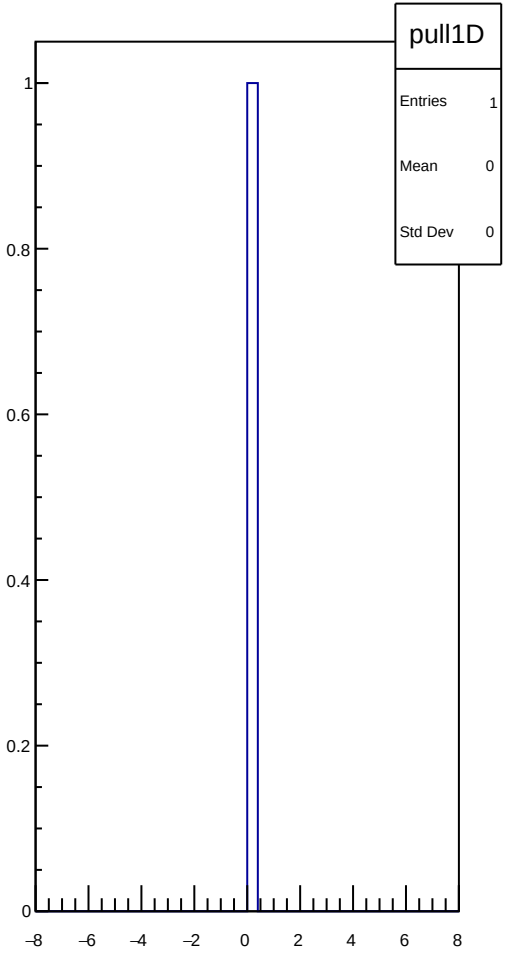

pull1D
Entries 1
Mean −4.857e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

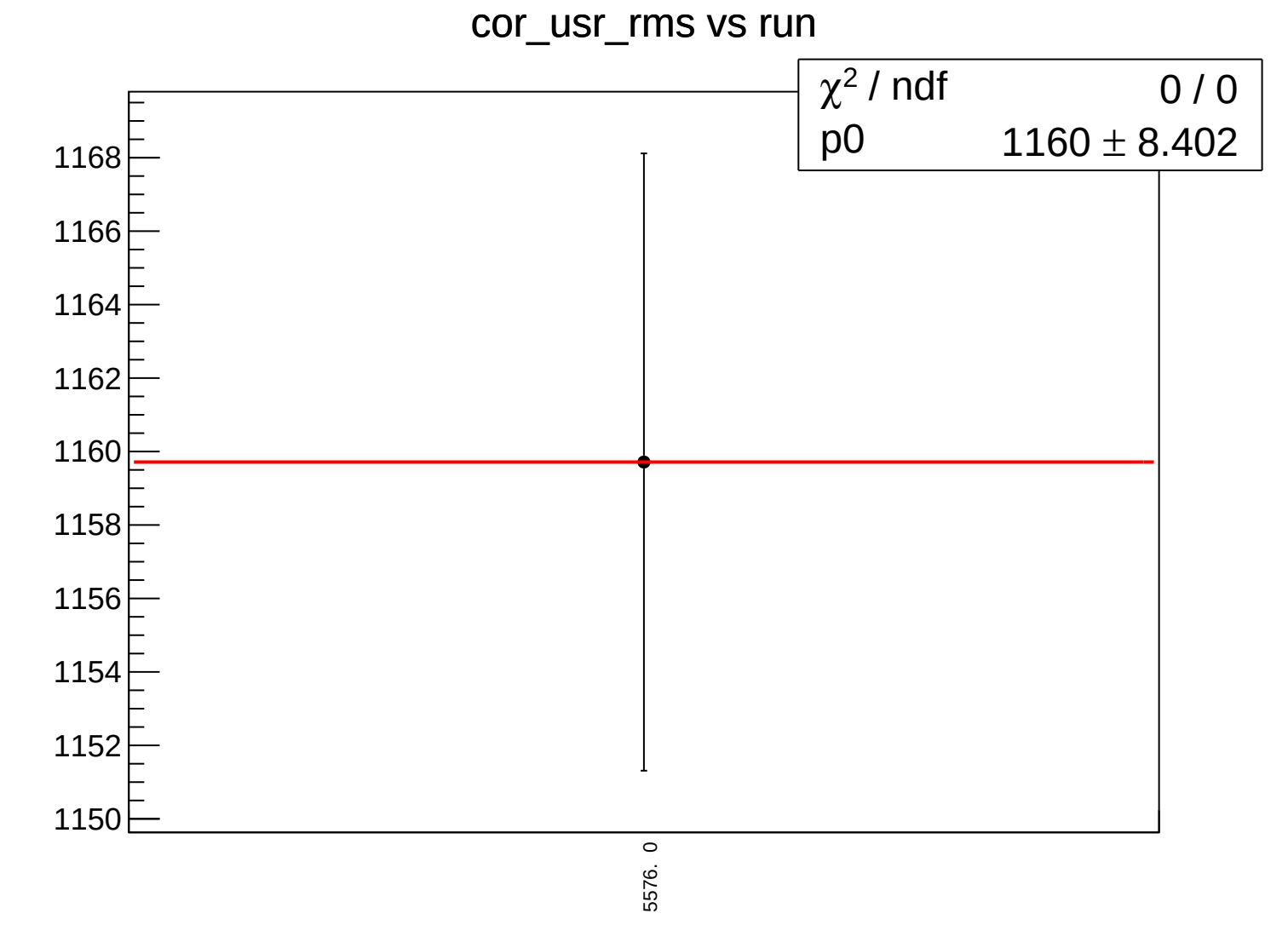

asym_right_dd_rms vs run
χ² / ndf 2.949e–28 / 0
p0 913.8 ± 6.621
920
918
916
914
912
910
908
906
5576. 0

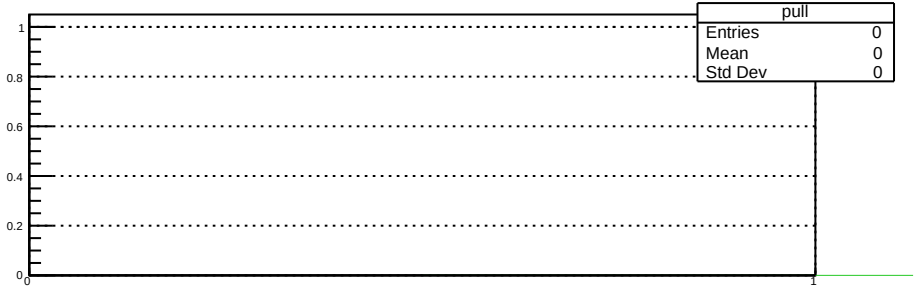

cor_usl_mean vs run
χ² / ndf 9.353e−32 / 0
p0 1.791e+04 ± 1.19e+04
30000
25000
20000
15000
10000
5000
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.058e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

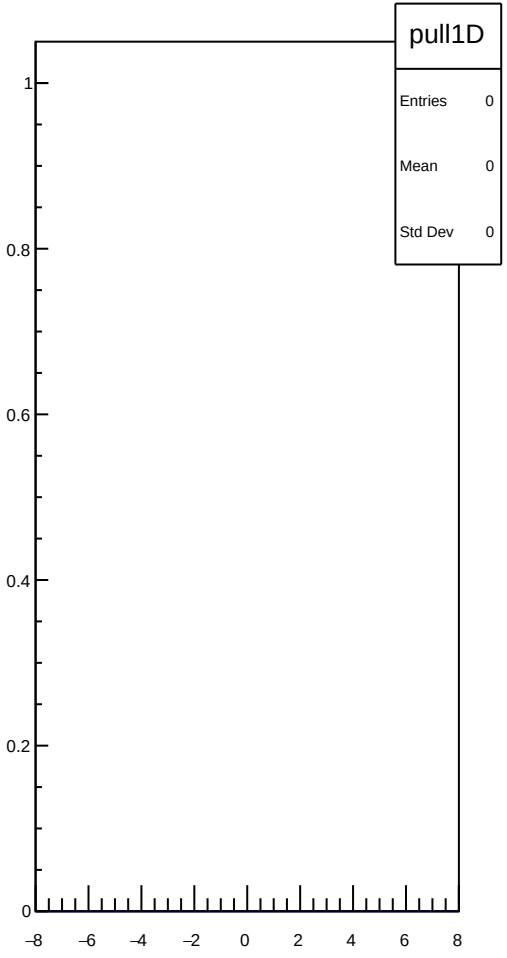

cor_usl_rms vs run
χ² / ndf 0 / 0
p0 1161 ± 8.411
1170
1168
1166
1164
1162
1160
1158
1156
1154
1152
5576. 0

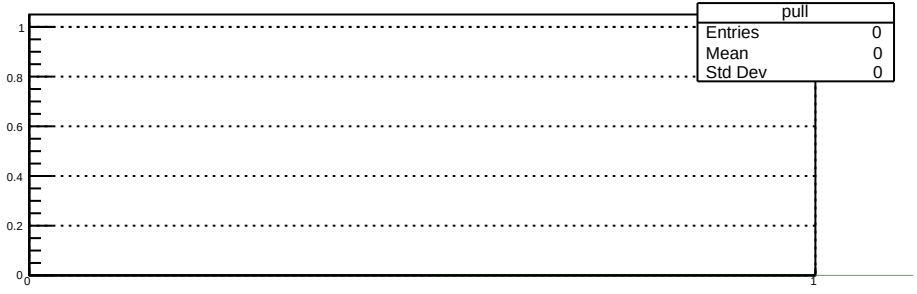

cor_usr_mean vs run
χ² / ndf 0 / 0
p0 3984 ± 1.188e+04
15000
10000
5000
0
−5000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

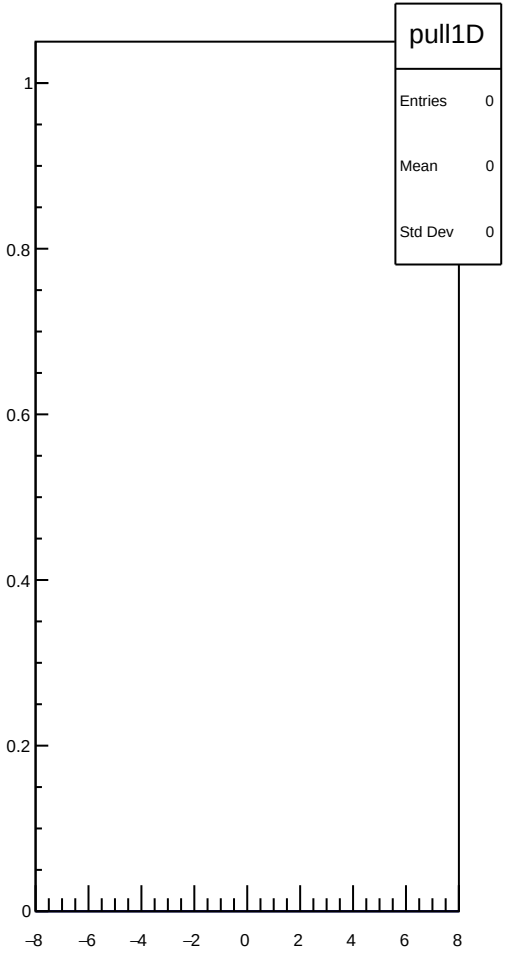

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


cor_usr_rms vs run
χ² / ndf 0 / 0
p0 1160 ± 8.402
1168
1166
1164
1162
1160
1158
1156
1154
1152
1150
5576. 0


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


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


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


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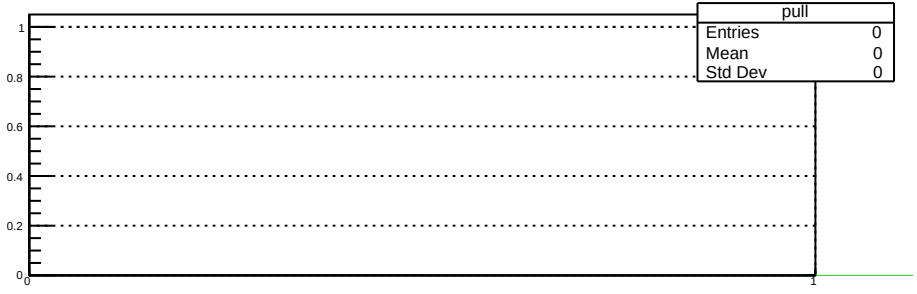
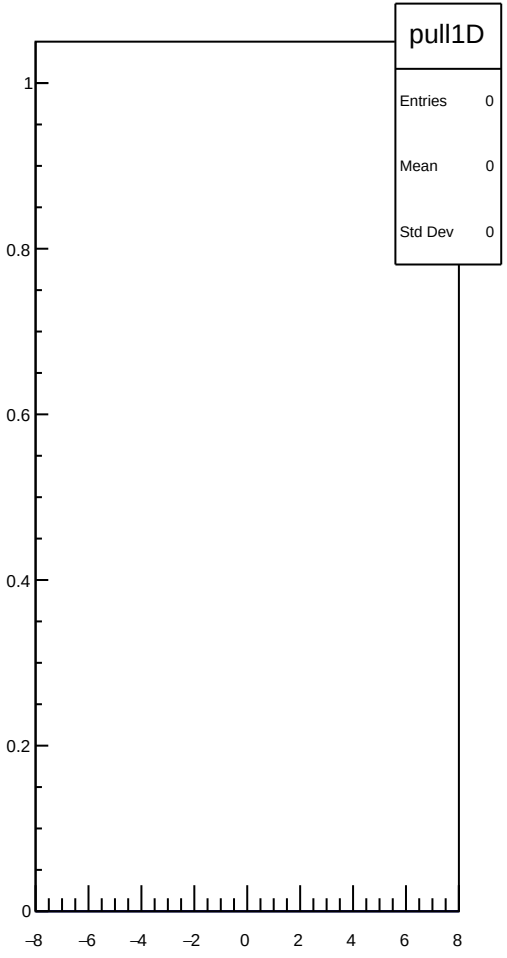
2
4
6
8


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


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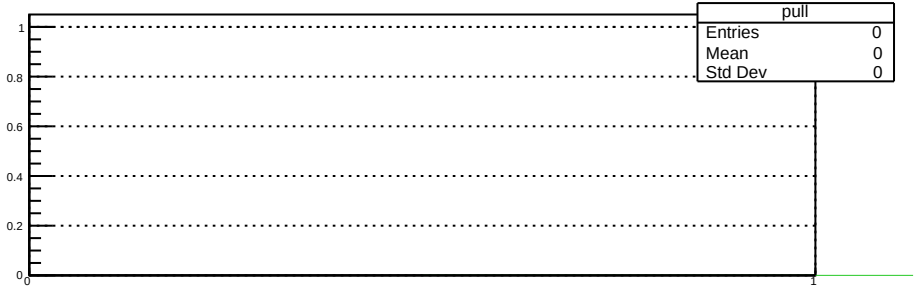
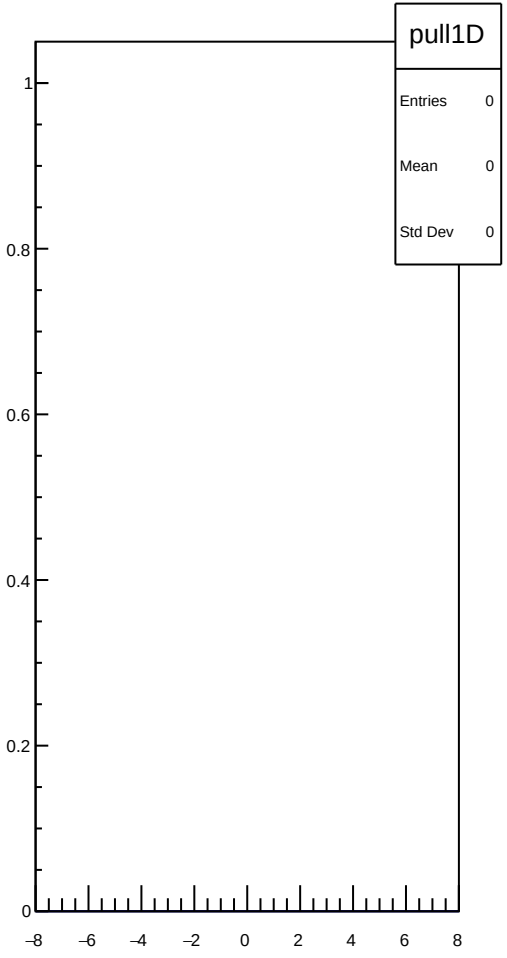
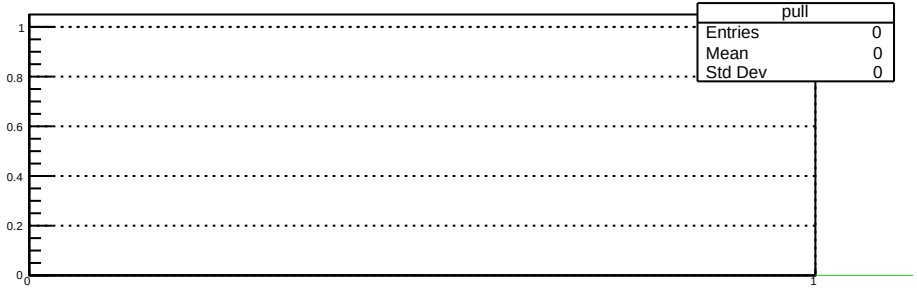
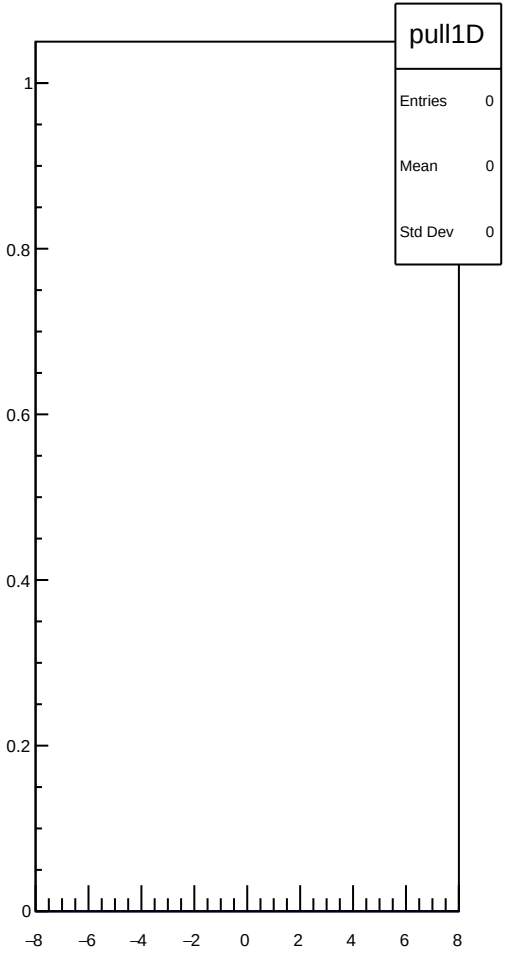
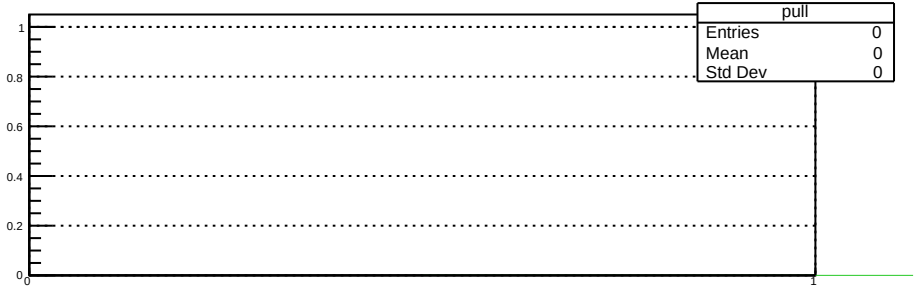
6
8

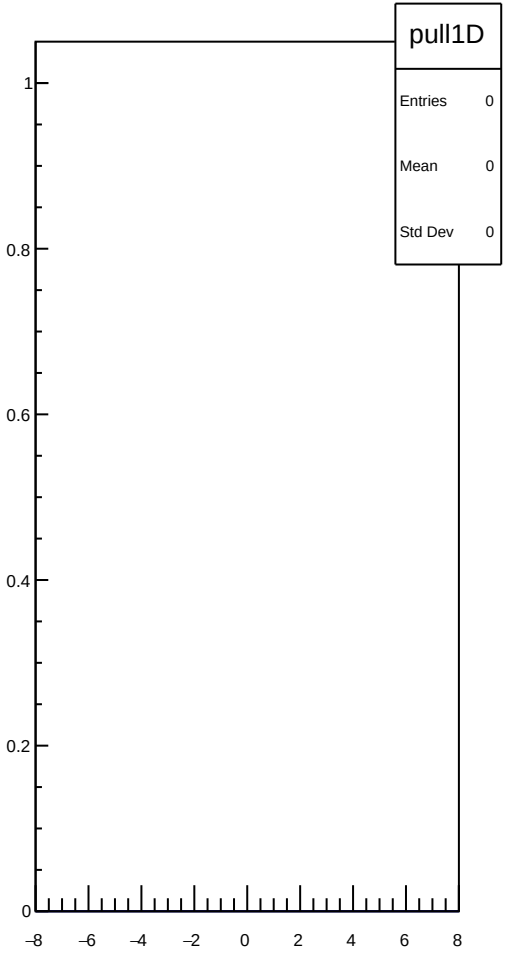

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

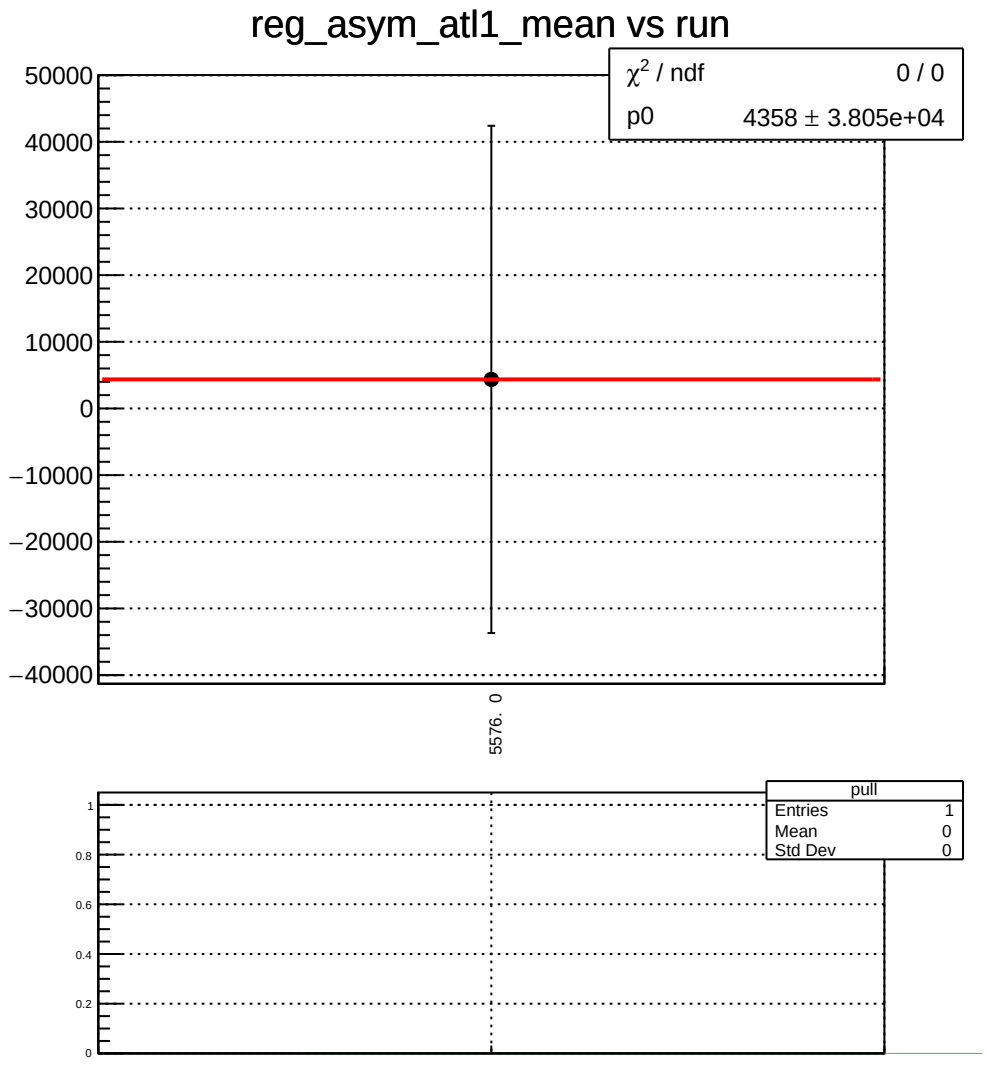

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

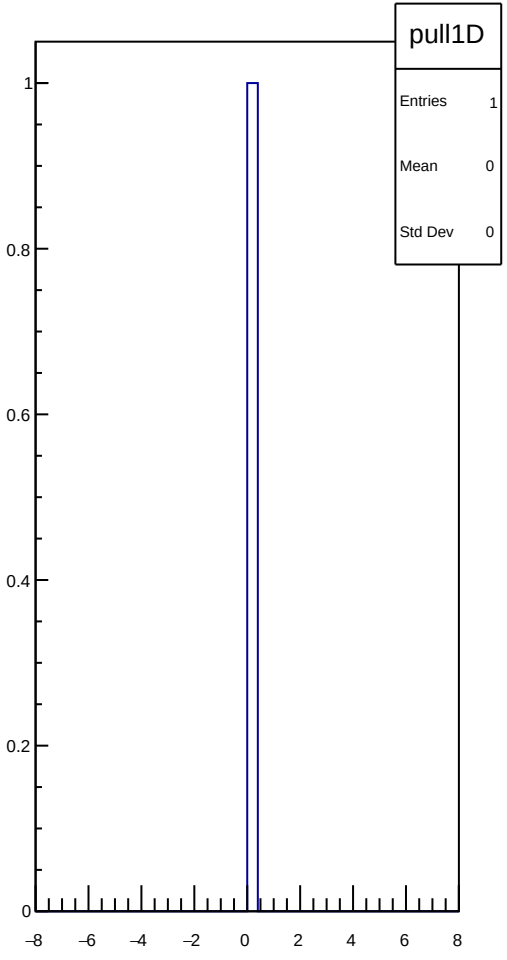

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

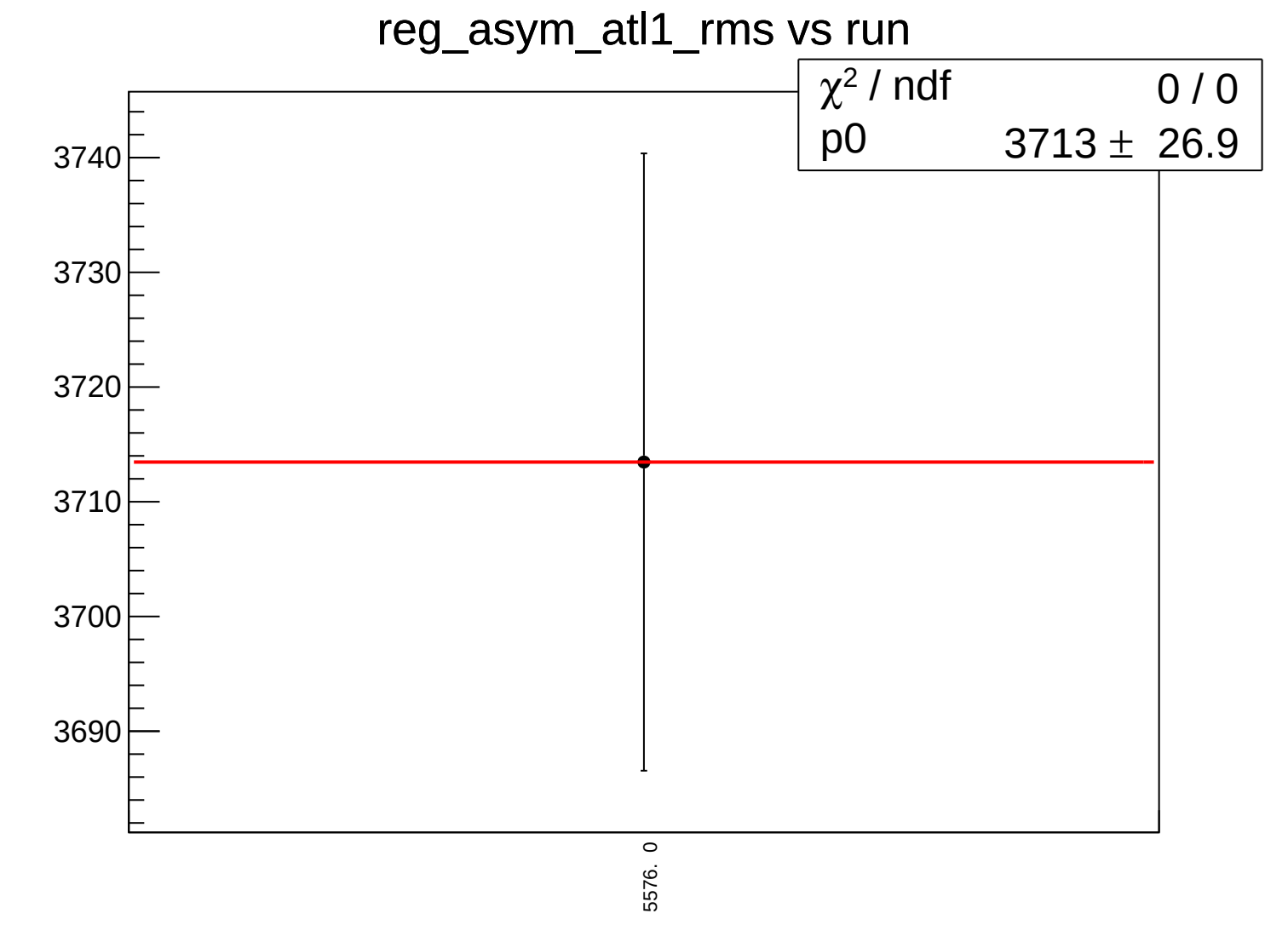

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

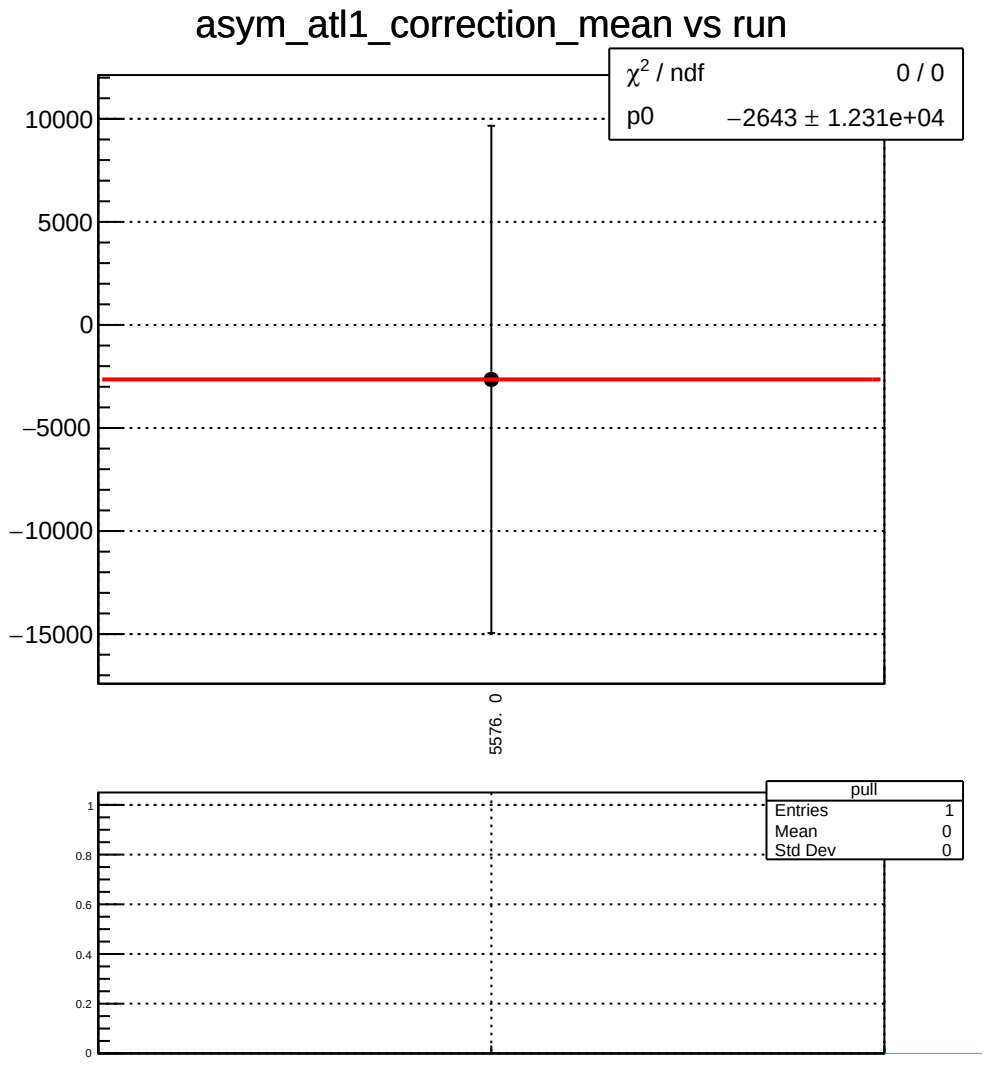

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

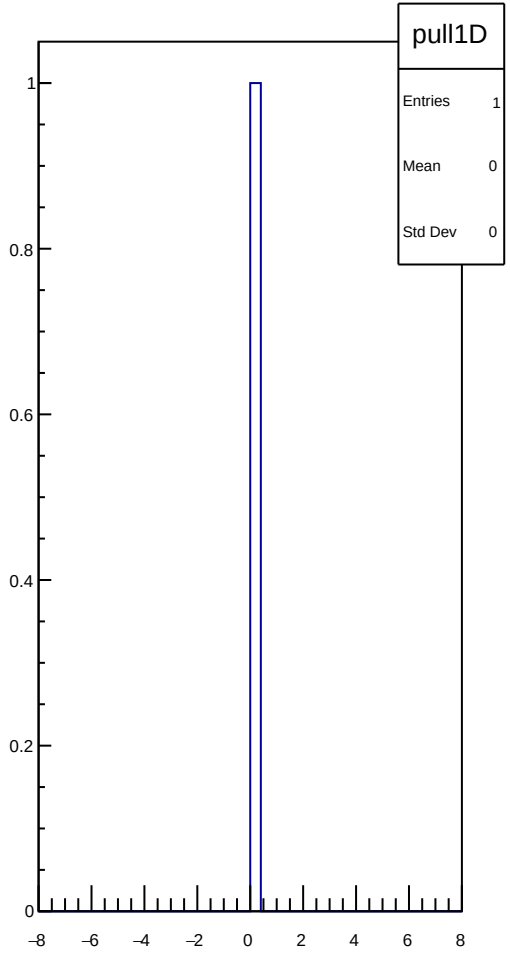

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

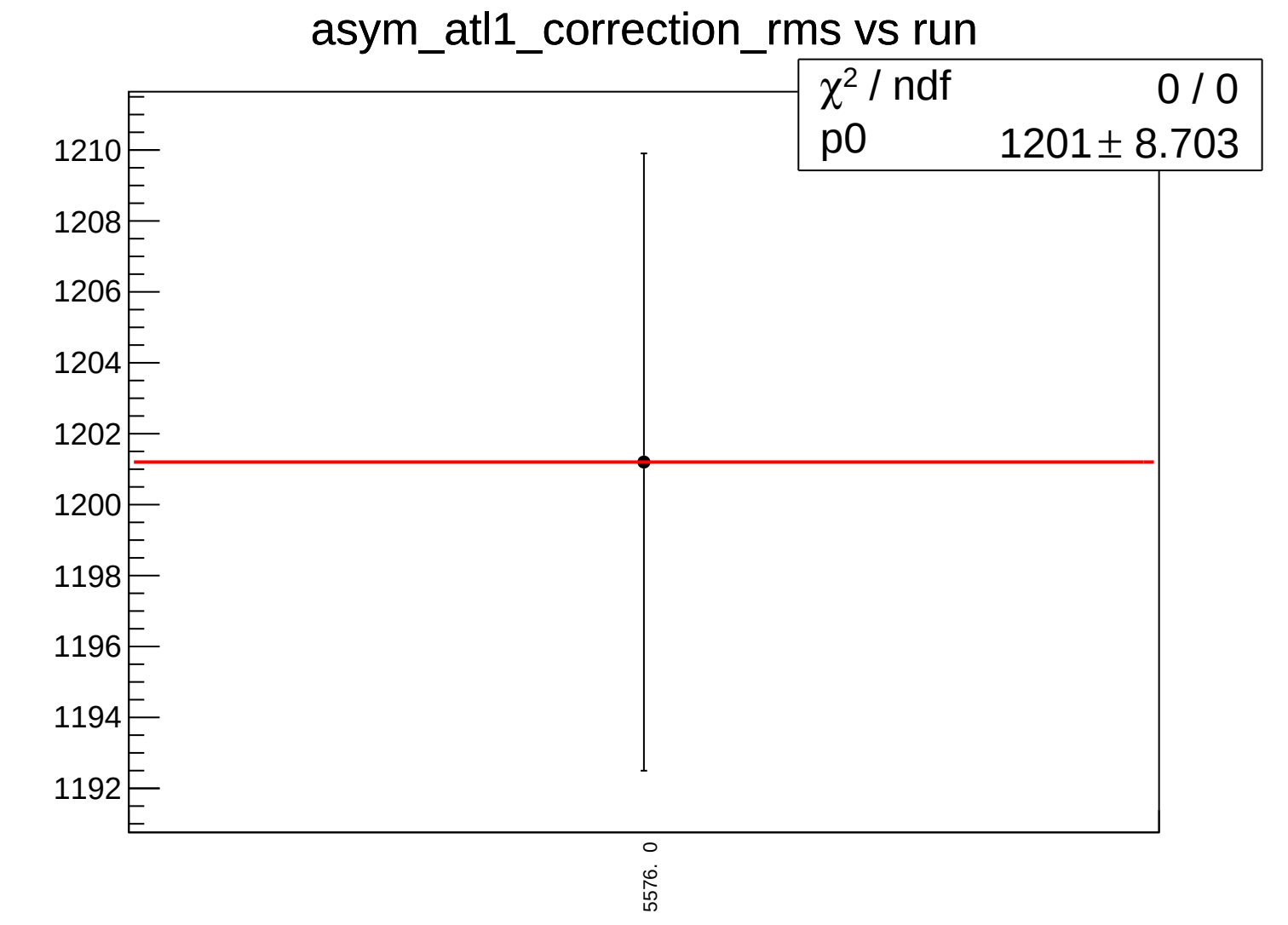

reg_asym_atl1_mean vs run
χ² / ndf 0 / 0
p0 4358 ± 3.805e+04
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

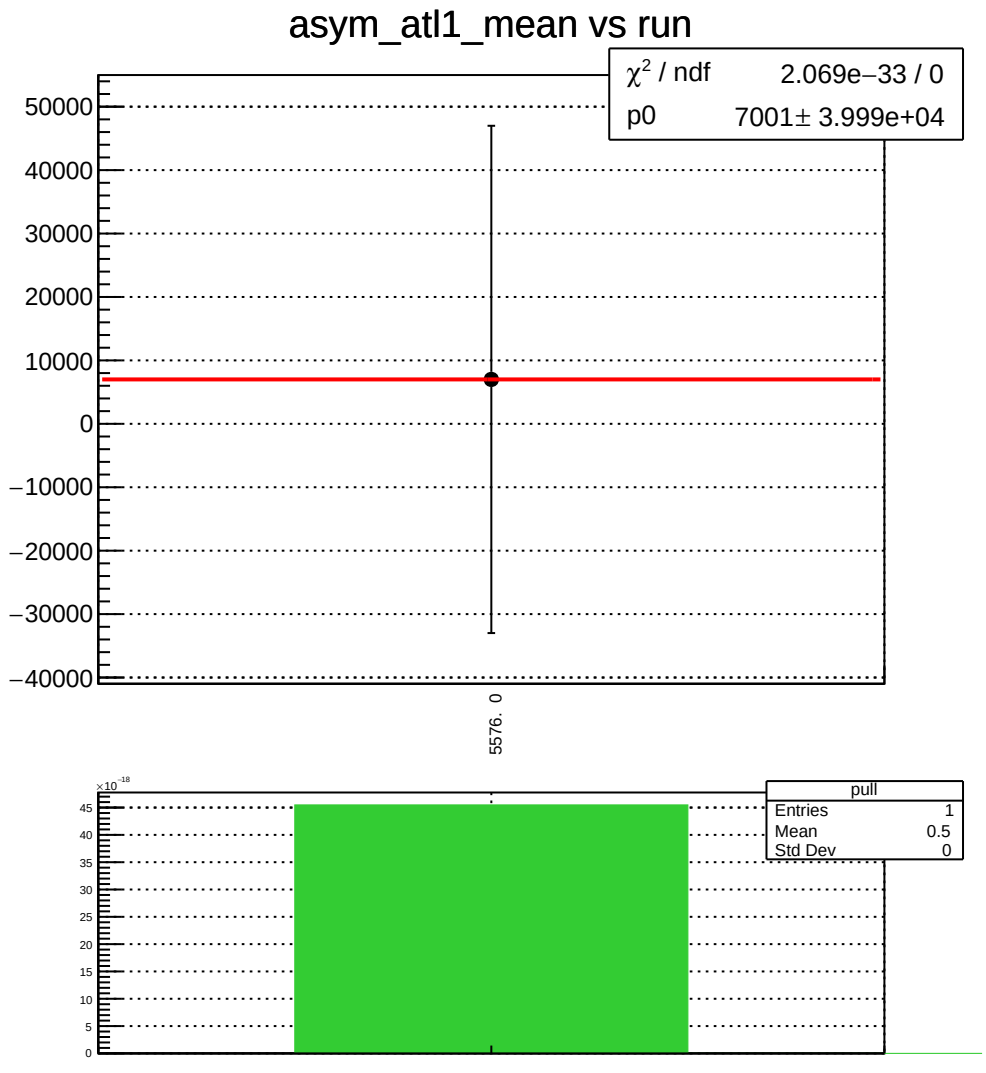

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

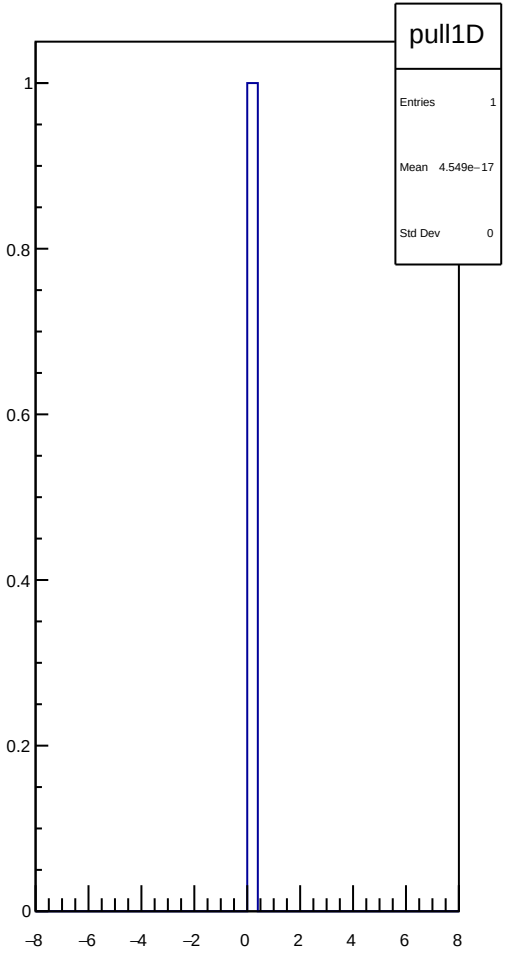

reg_asym_atl1_rms vs run
χ² / ndf 0 / 0
p0 3713 ± 26.9
3740
3730
3720
3710
3700
3690
5576. 0

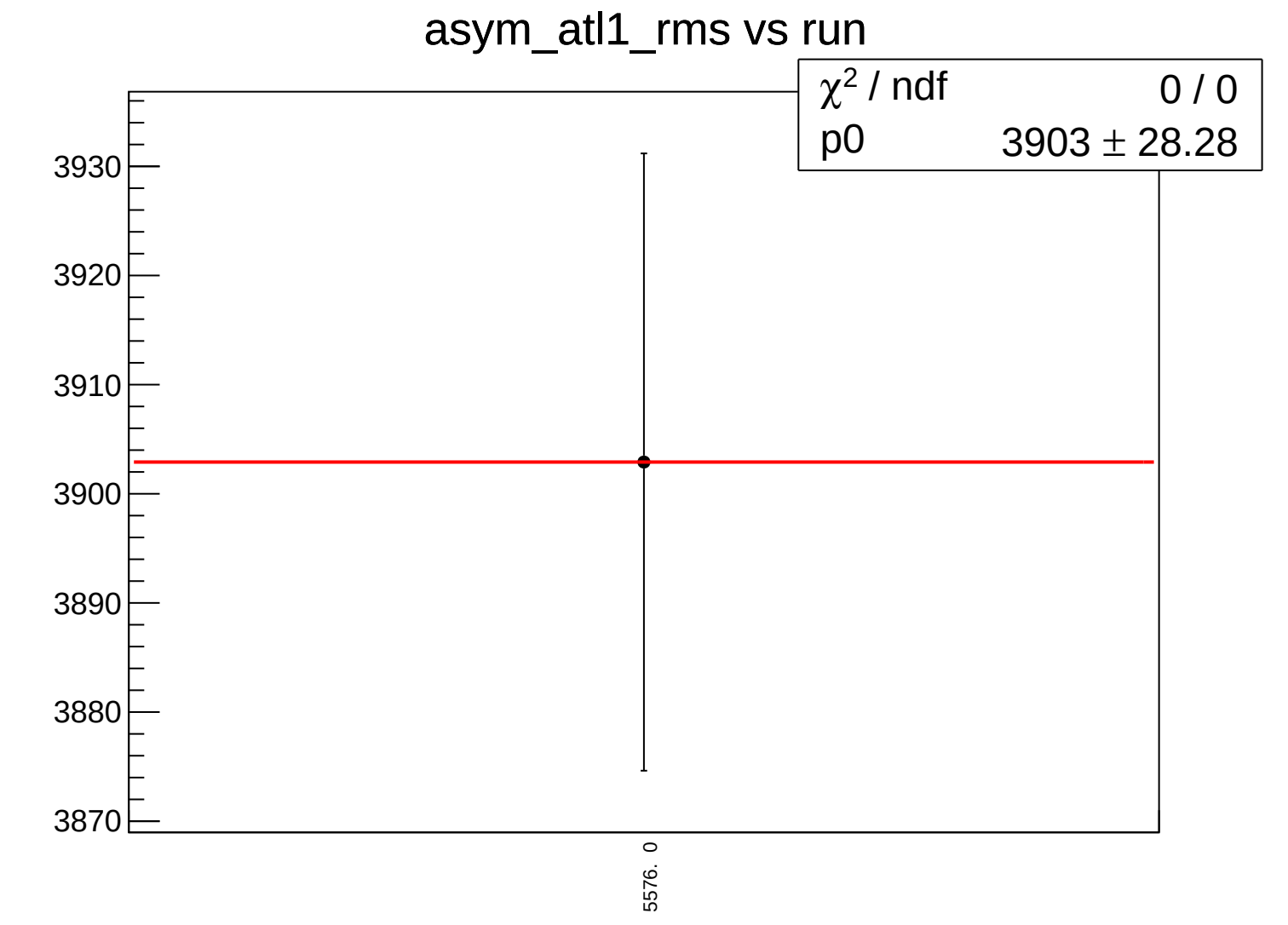

asym_atl1_correction_mean vs run
χ² / ndf 0 / 0
p0 −2643 ± 1.231e+04
10000
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

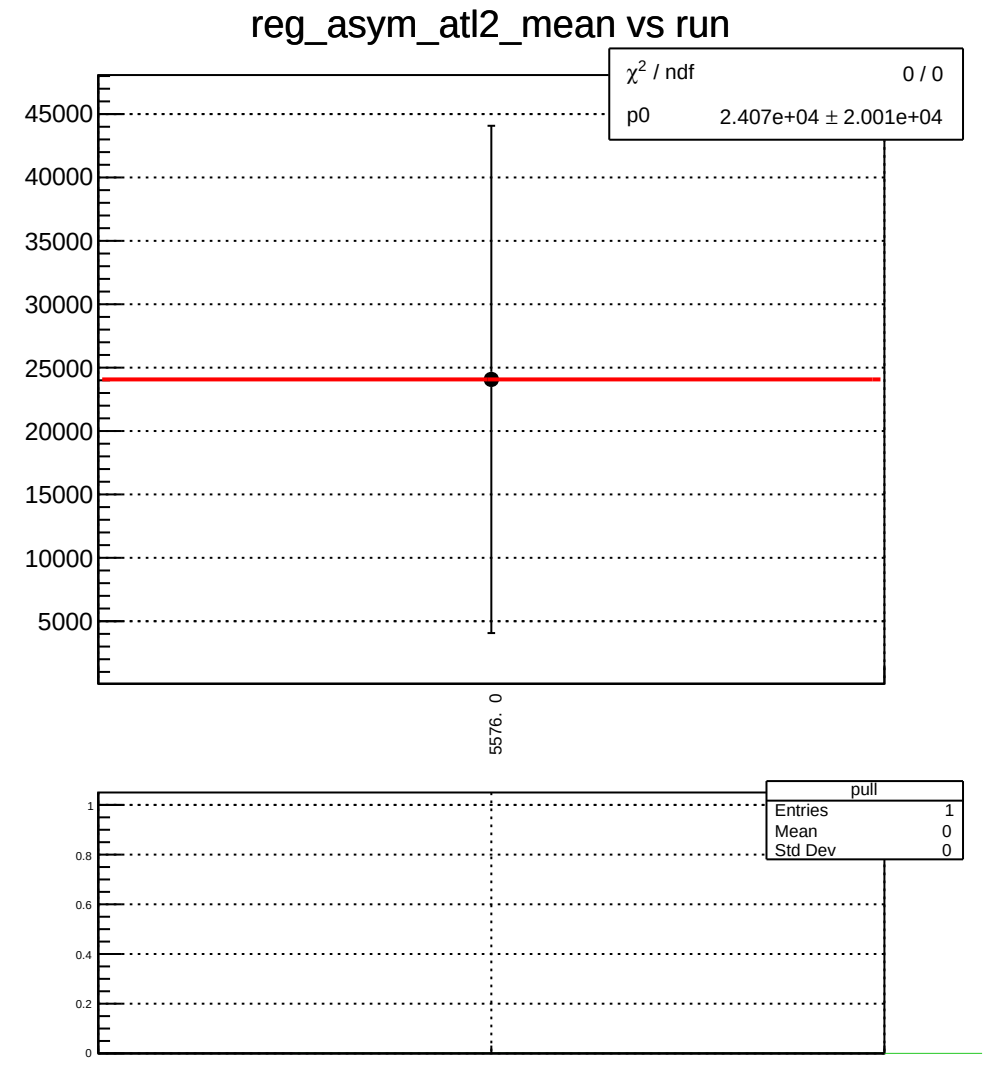

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

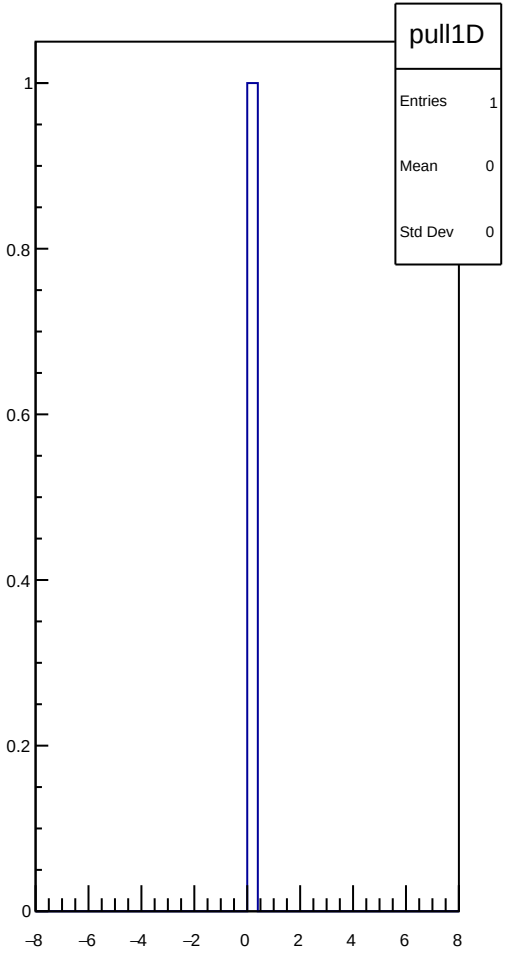

asym_atl1_correction_rms vs run
χ² / ndf 0 / 0
p0 1201 ± 8.703
1210
1208
1206
1204
1202
1200
1198
1196
1194
1192
5576. 0

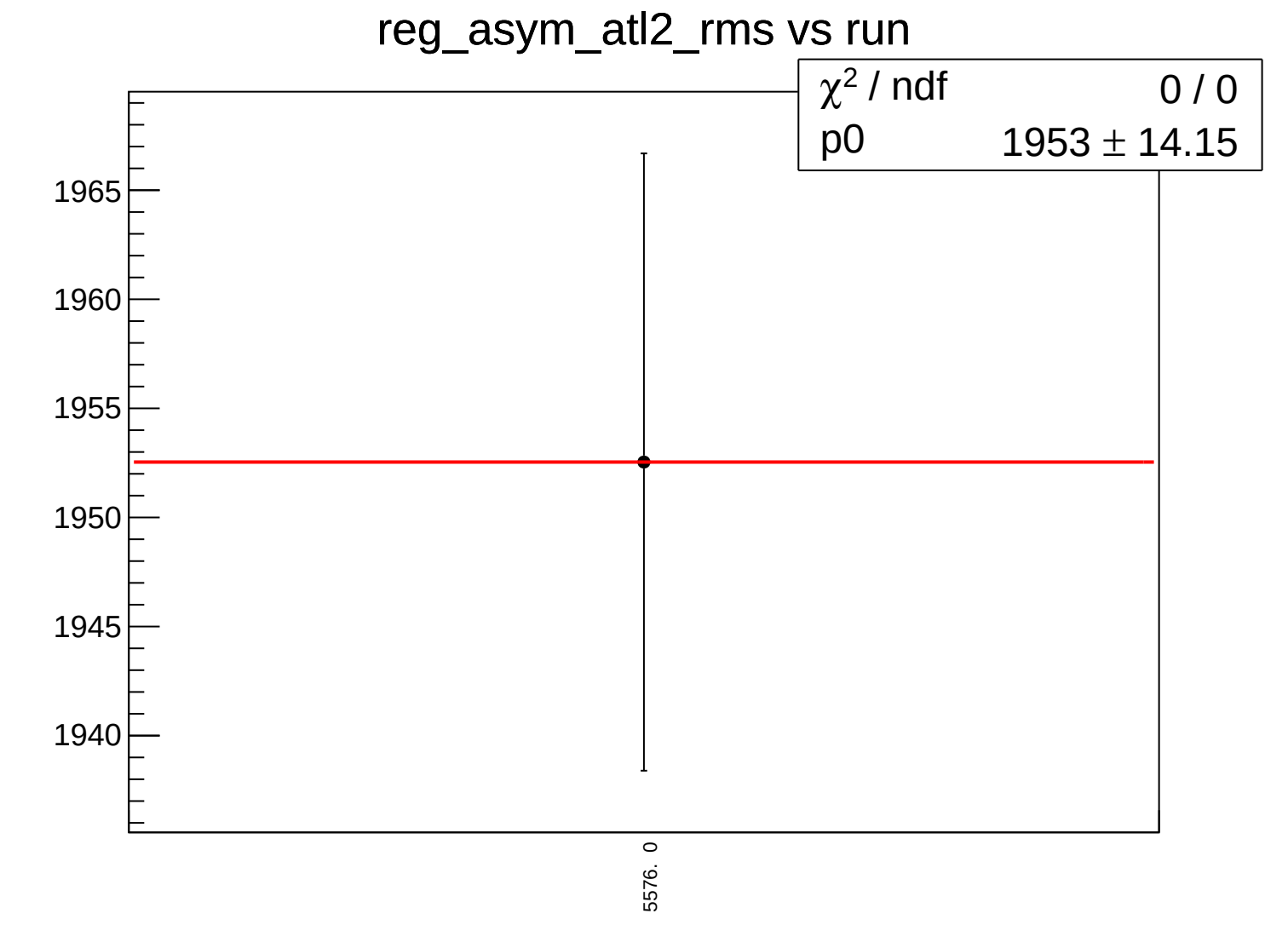

asym_atl1_mean vs run
χ² / ndf 2.069e−33 / 0
p0 7001± 3.999e+04
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
×10⁻¹⁸
45
40
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

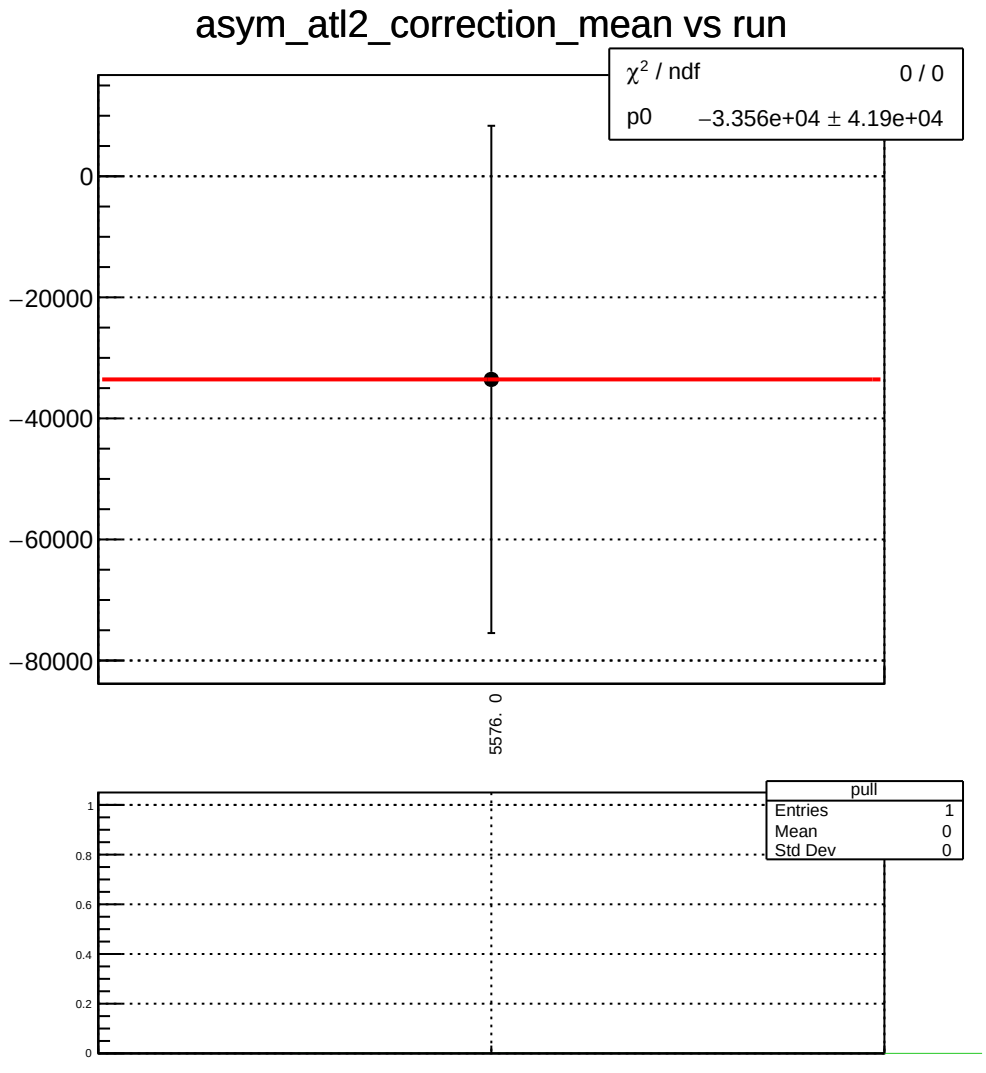

pull1D
Entries 1
Mean 4.549e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

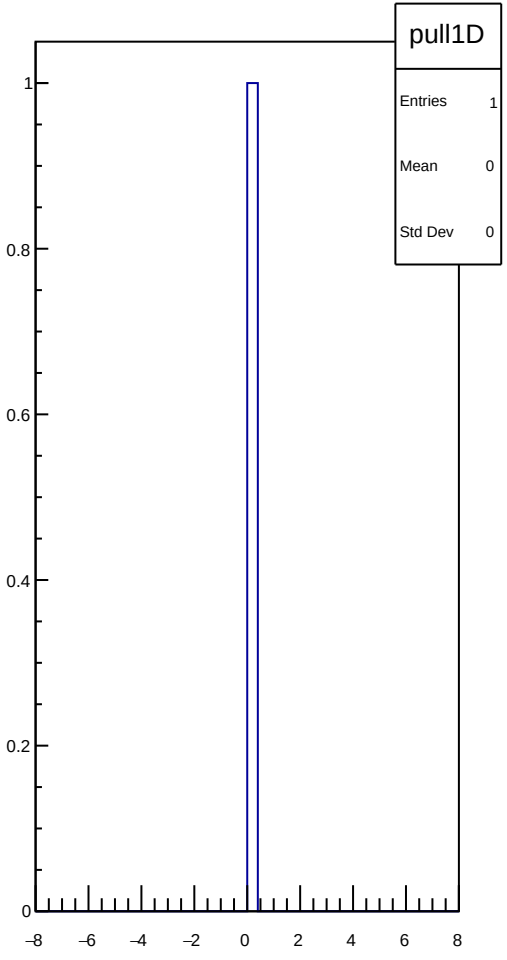

asym_atl1_rms vs run
χ² / ndf 0 / 0
p0 3903 ± 28.28
3930
3920
3910
3900
3890
3880
3870
5576. 0


reg_asym_atl2_mean vs run
χ² / ndf 0 / 0
p0 2.407e+04 ± 2.001e+04
45000
40000
35000
30000
25000
20000
15000
10000
5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

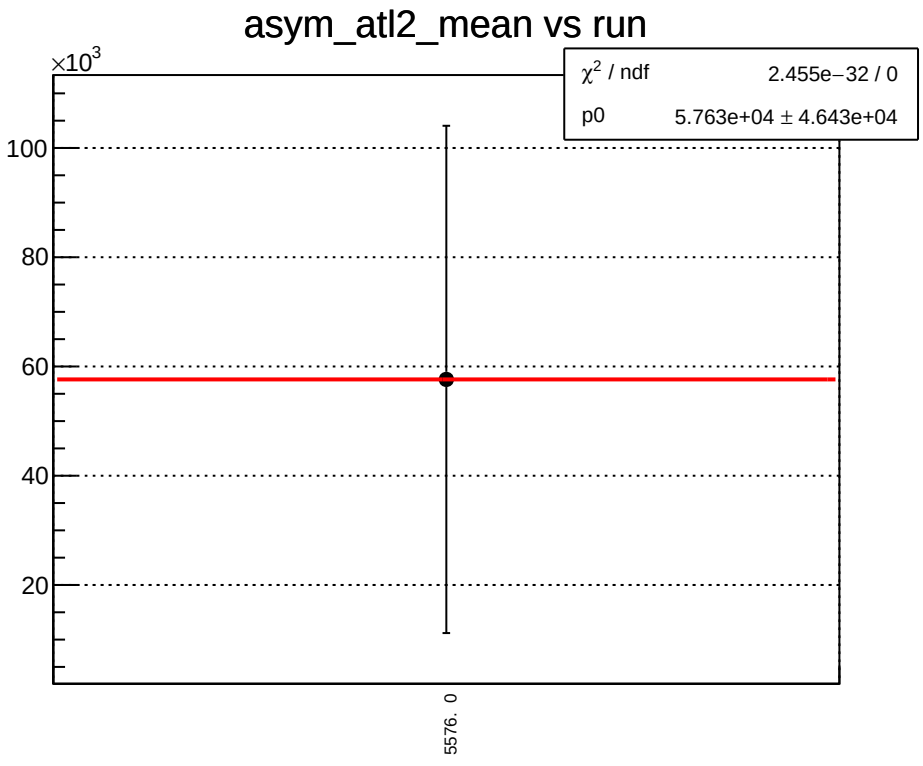

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

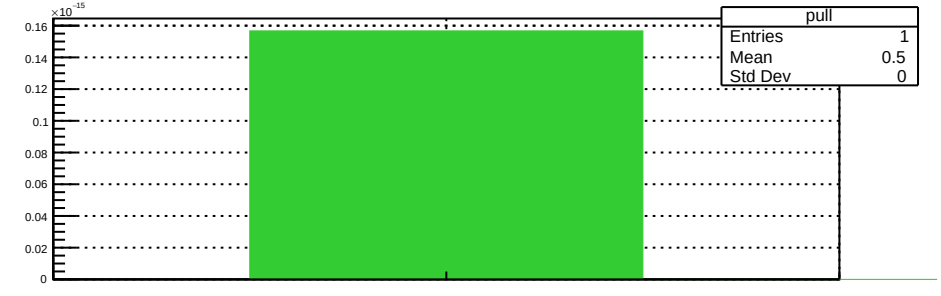

reg_asym_atl2_rms vs run
χ² / ndf 0 / 0
p0 1953 ± 14.15
1965
1960
1955
1950
1945
1940
5576. 0

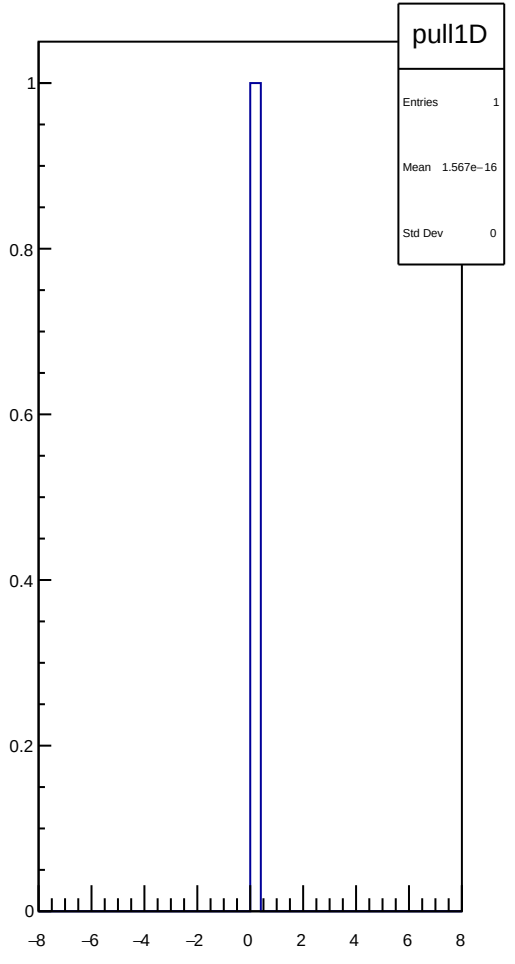

asym_atl2_correction_mean vs run
χ² / ndf 0 / 0
p0 −3.356e+04 ± 4.19e+04
0
−20000
−40000
−60000
−80000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

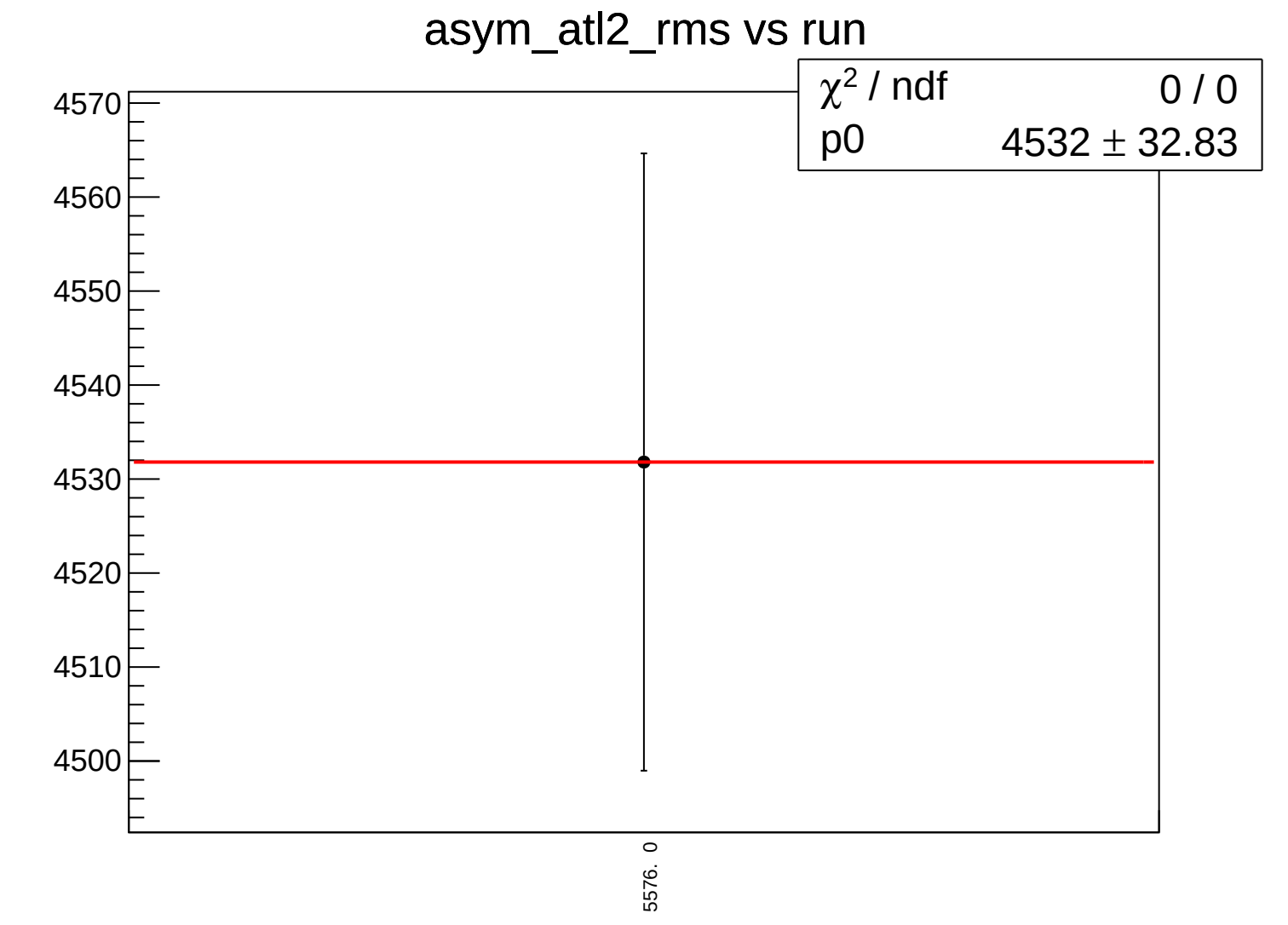

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

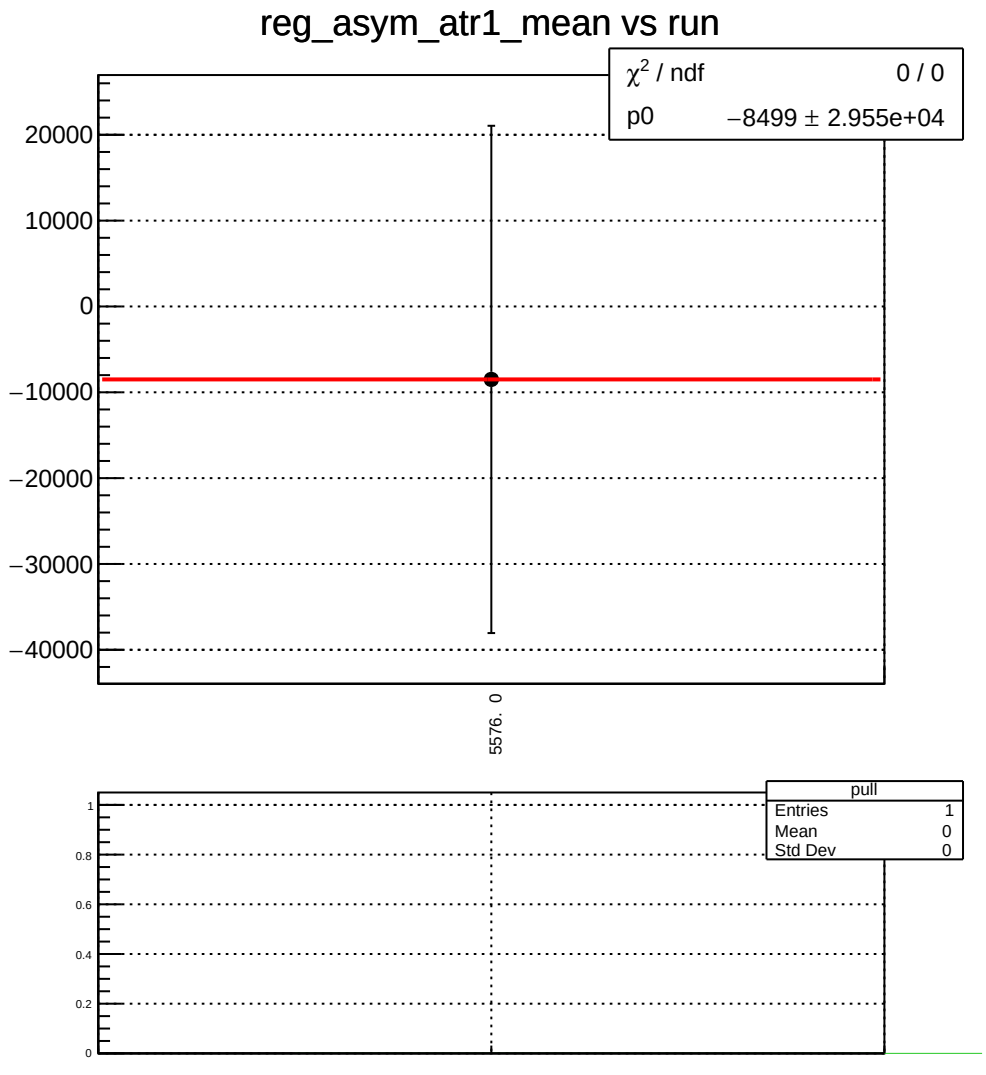
asym_atl2_correction_rms vs run
χ² / ndf 0 / 0
p0 4090 ± 29.63
4120
4110
4100
4090
4080
4070
4060
5576. 0

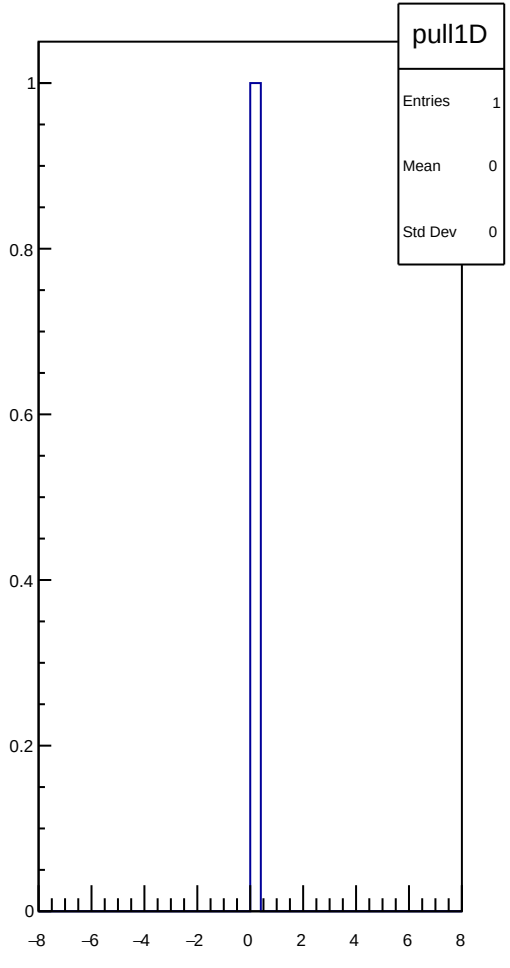

asym_atl2_mean vs run
×10^3
χ² / ndf 2.455e−32 / 0
p0 5.763e+04 ± 4.643e+04
100
80
60
40
20
5576. 0


×10^-15
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 1.567e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_rms vs run
χ² / ndf 0 / 0
p0 4532 ± 32.83
4570
4560
4550
4540
4530
4520
4510
4500
5576. 0


reg_asym_atr1_mean vs run
χ² / ndf 0 / 0
p0 −8499 ± 2.955e+04
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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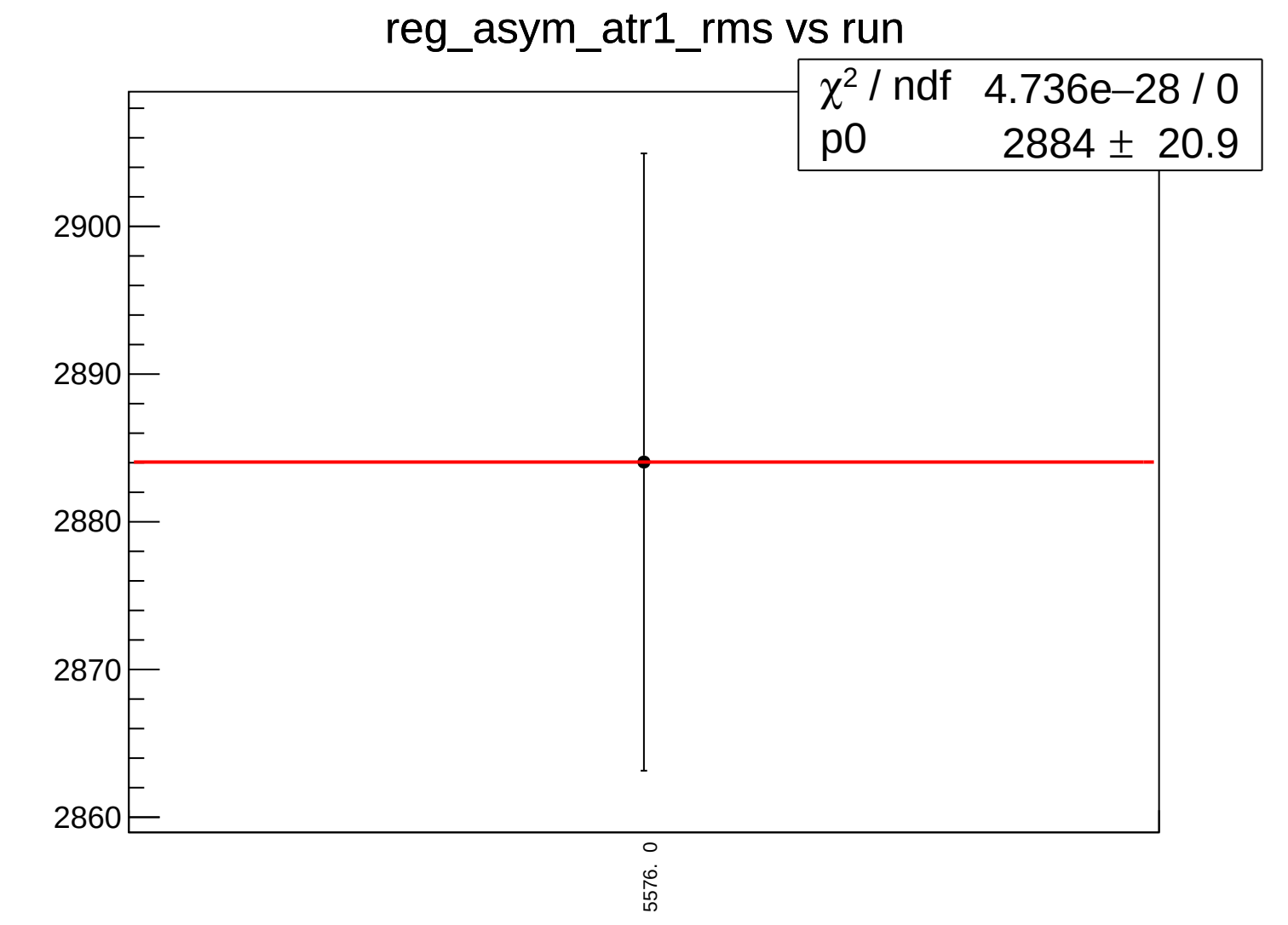
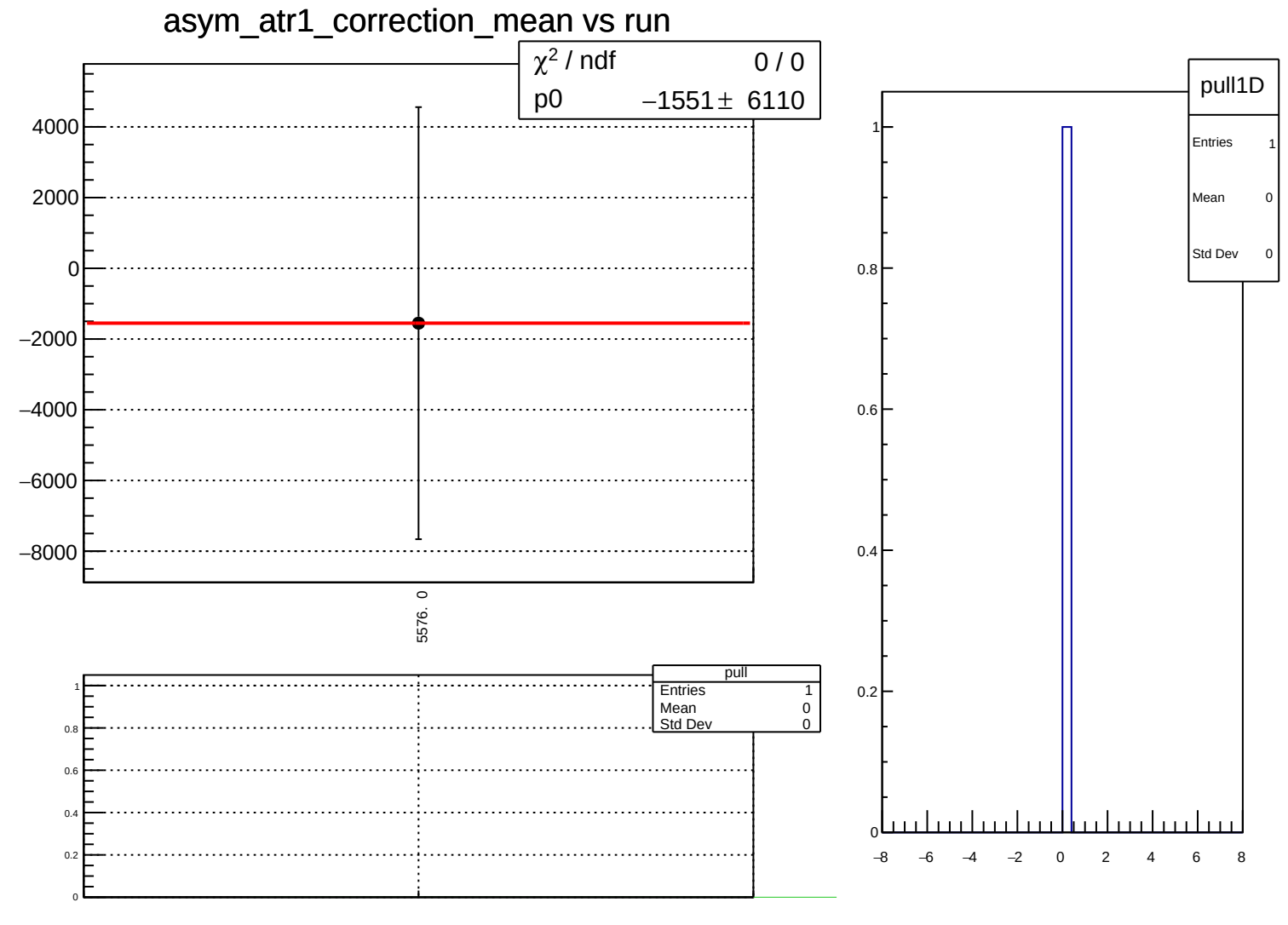
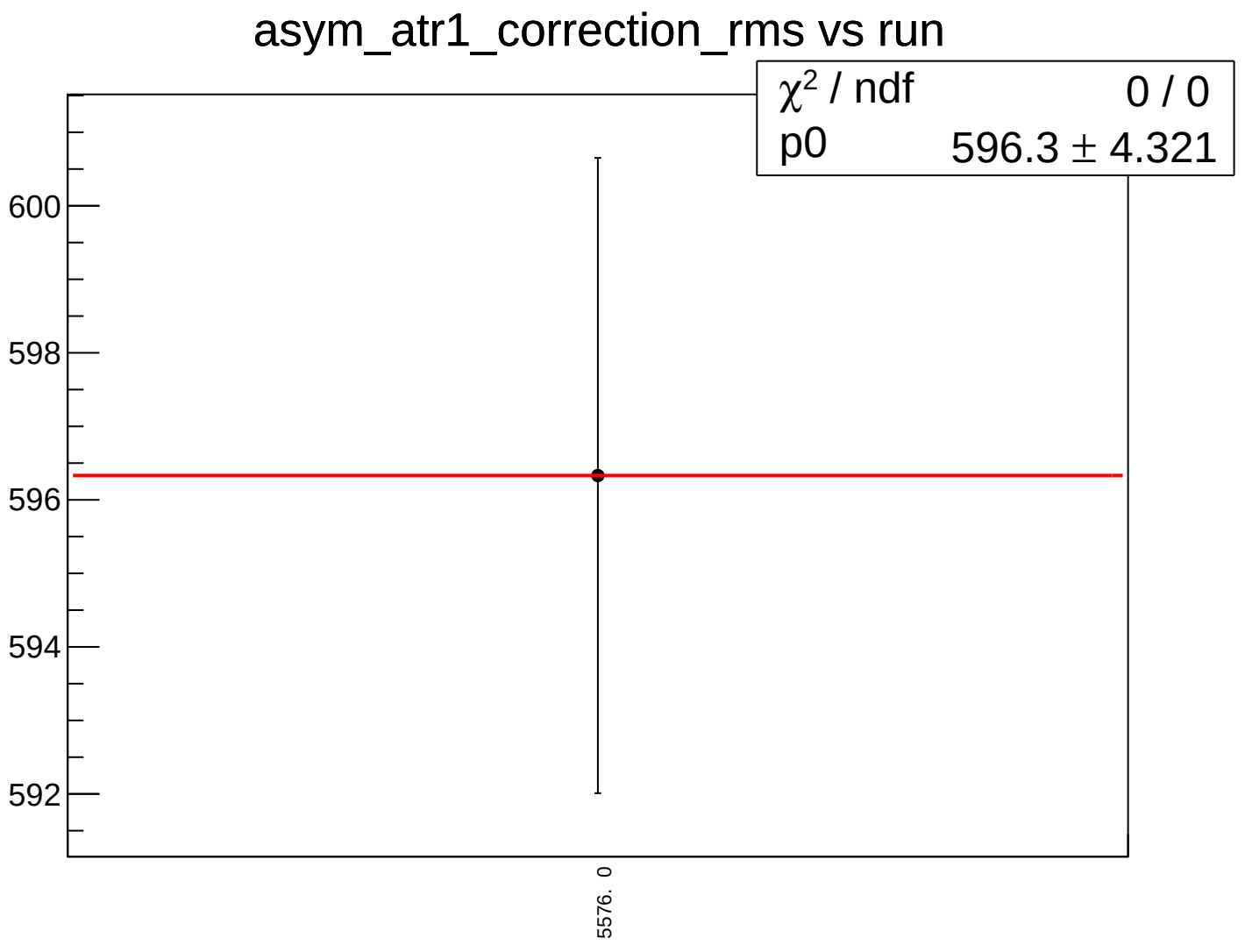
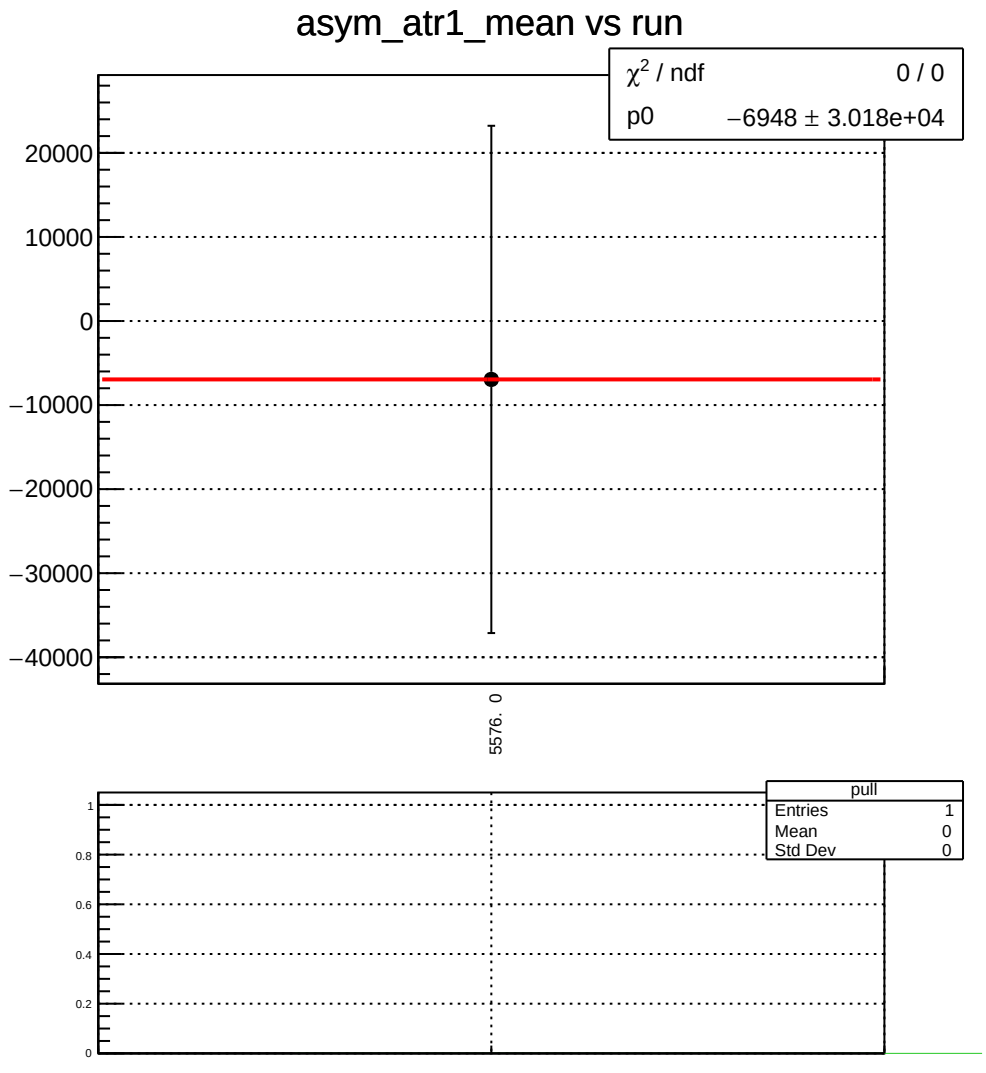
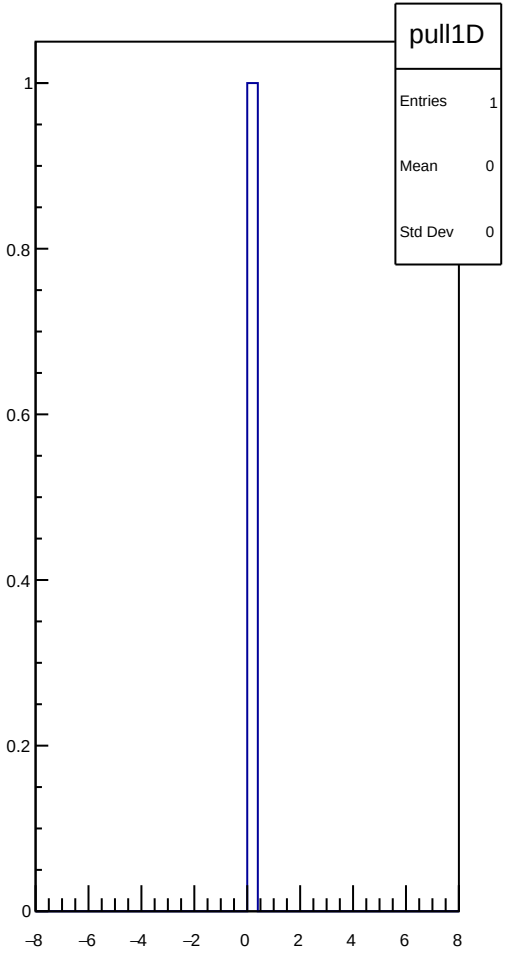
0
2
4
6
8

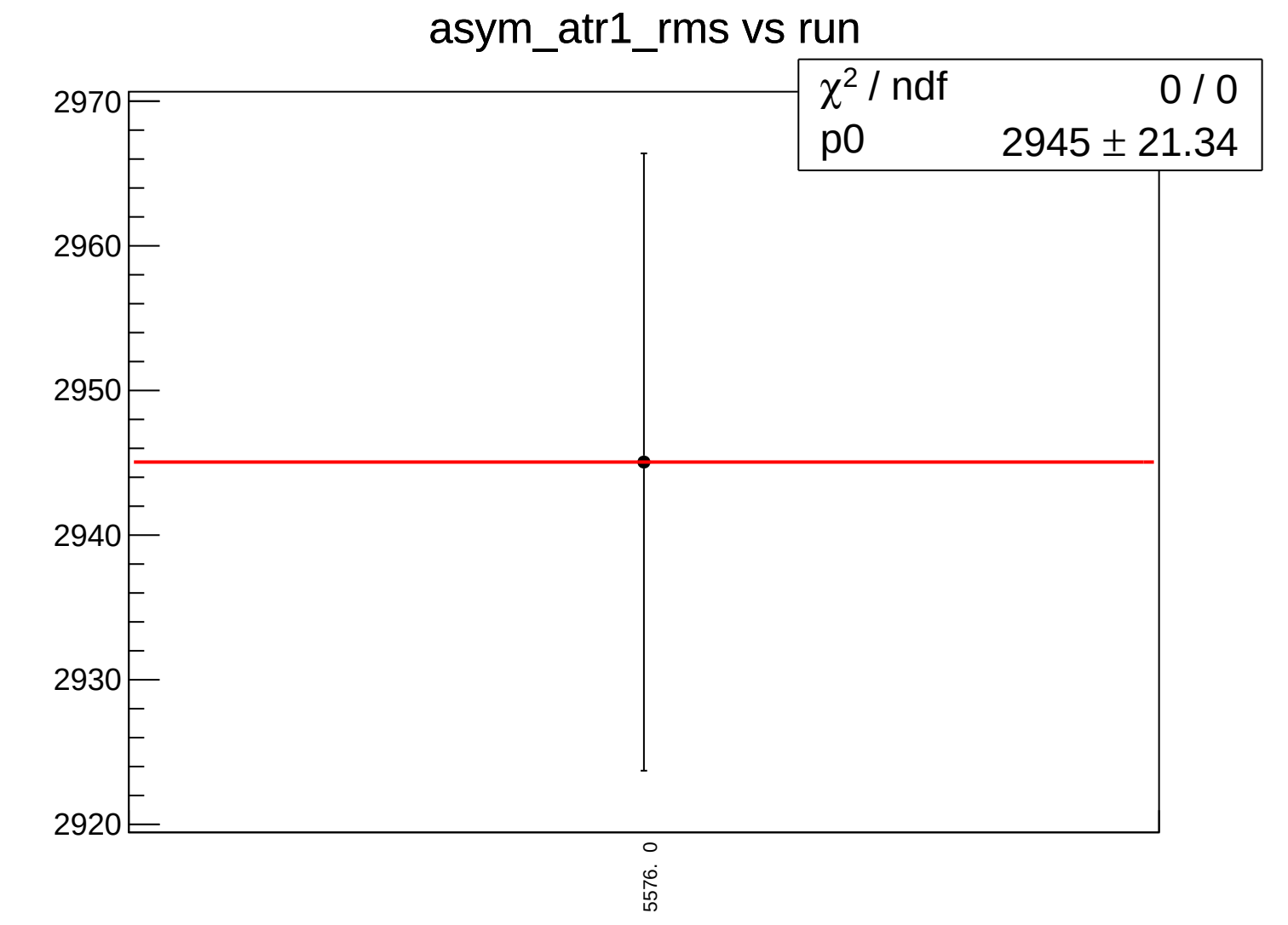

reg_asym_atr1_rms vs run
χ² / ndf 4.736e–28 / 0
p0 2884 ± 20.9
2900
2890
2880
2870
2860
5576. 0

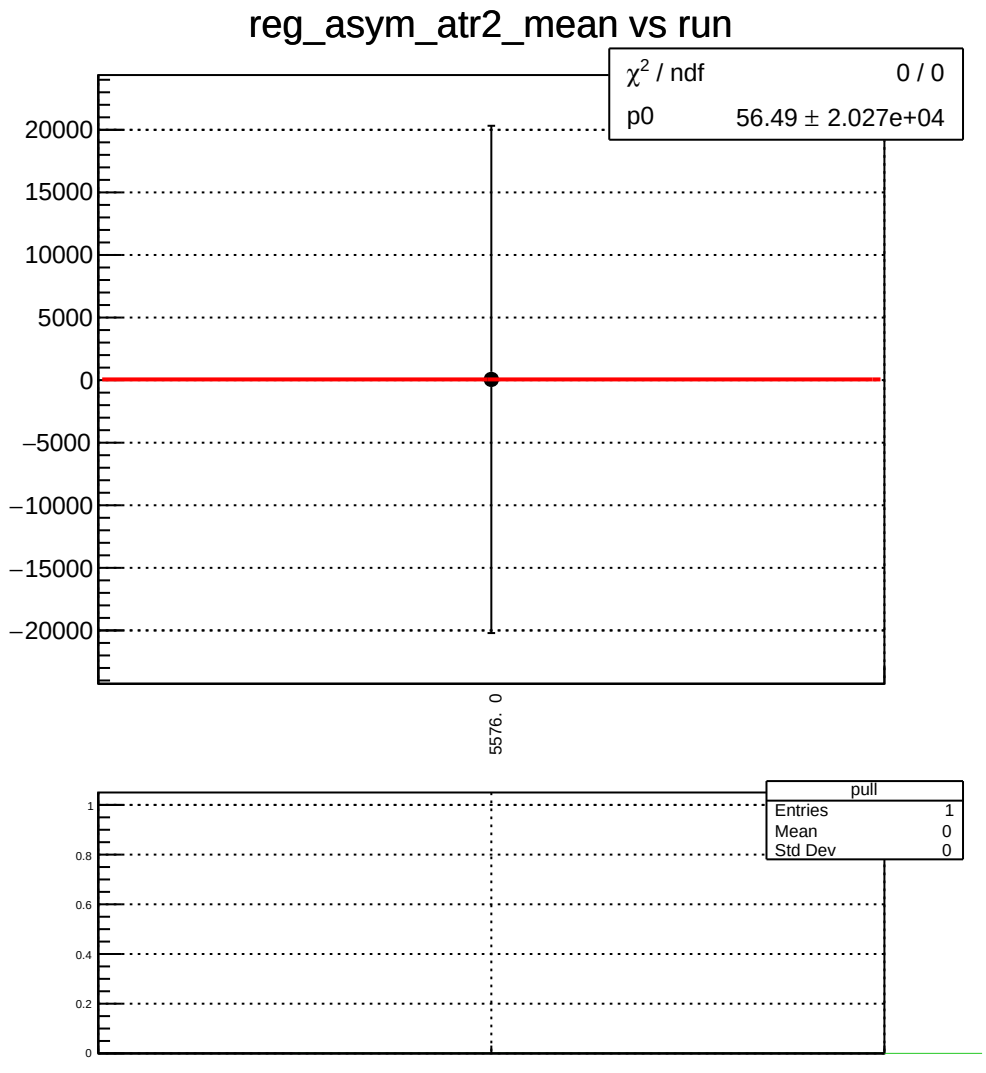

asym_atr1_correction_mean vs run
χ² / ndf 0 / 0
p0 −1551 ± 6110
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

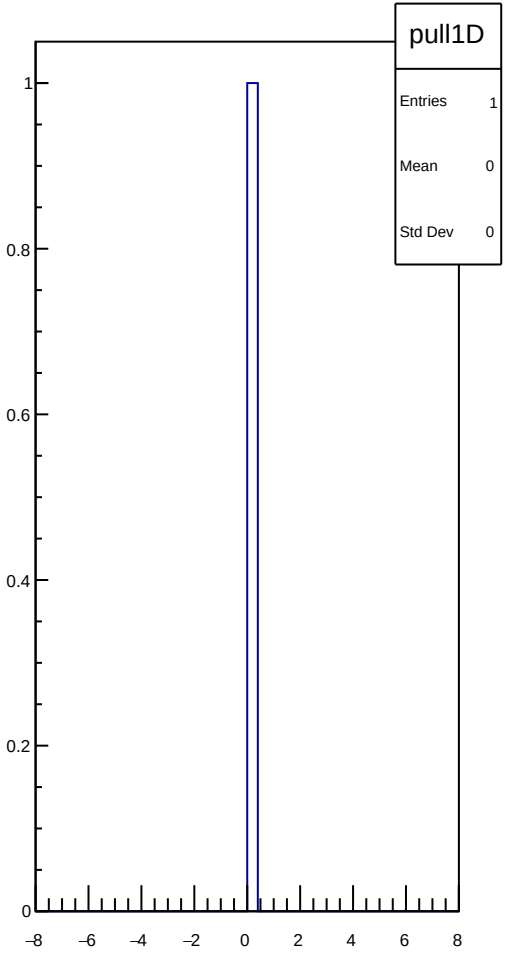

asym_atr1_correction_rms vs run
χ² / ndf 0 / 0
p0 596.3 ± 4.321
600
598
596
594
592
5576. 0

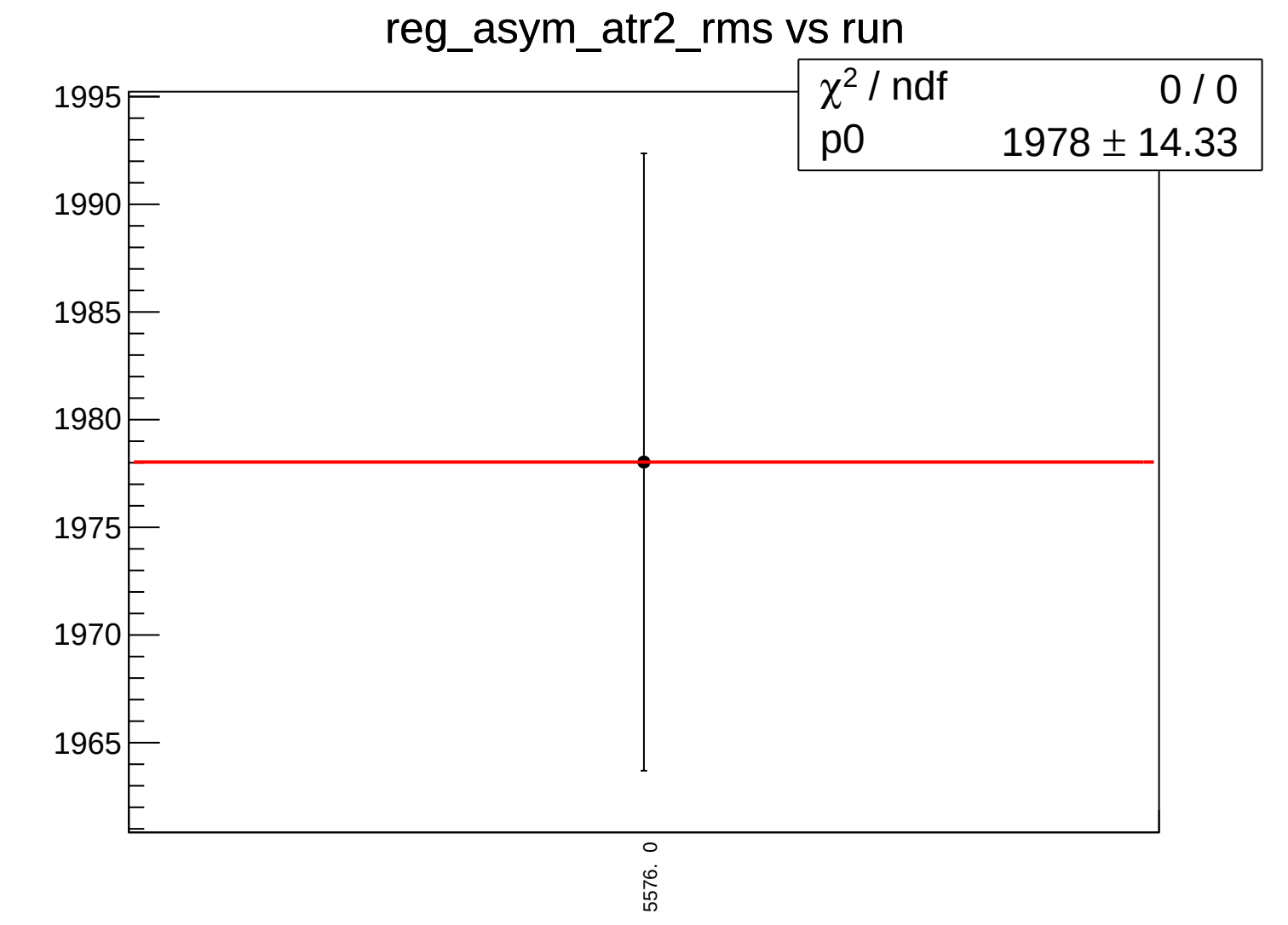

asym_atr1_mean vs run
χ² / ndf 0 / 0
p0 −6948 ± 3.018e+04
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

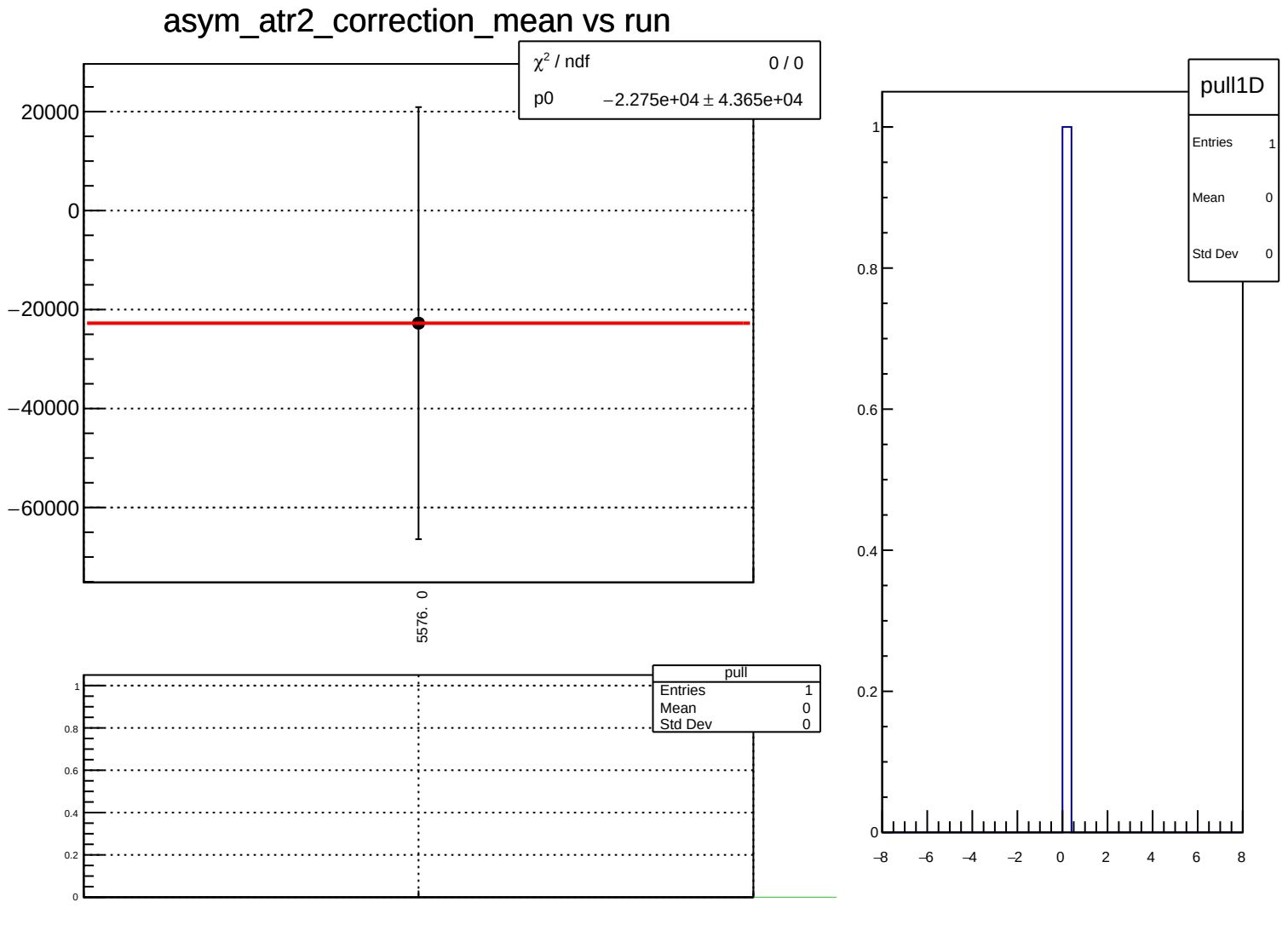

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

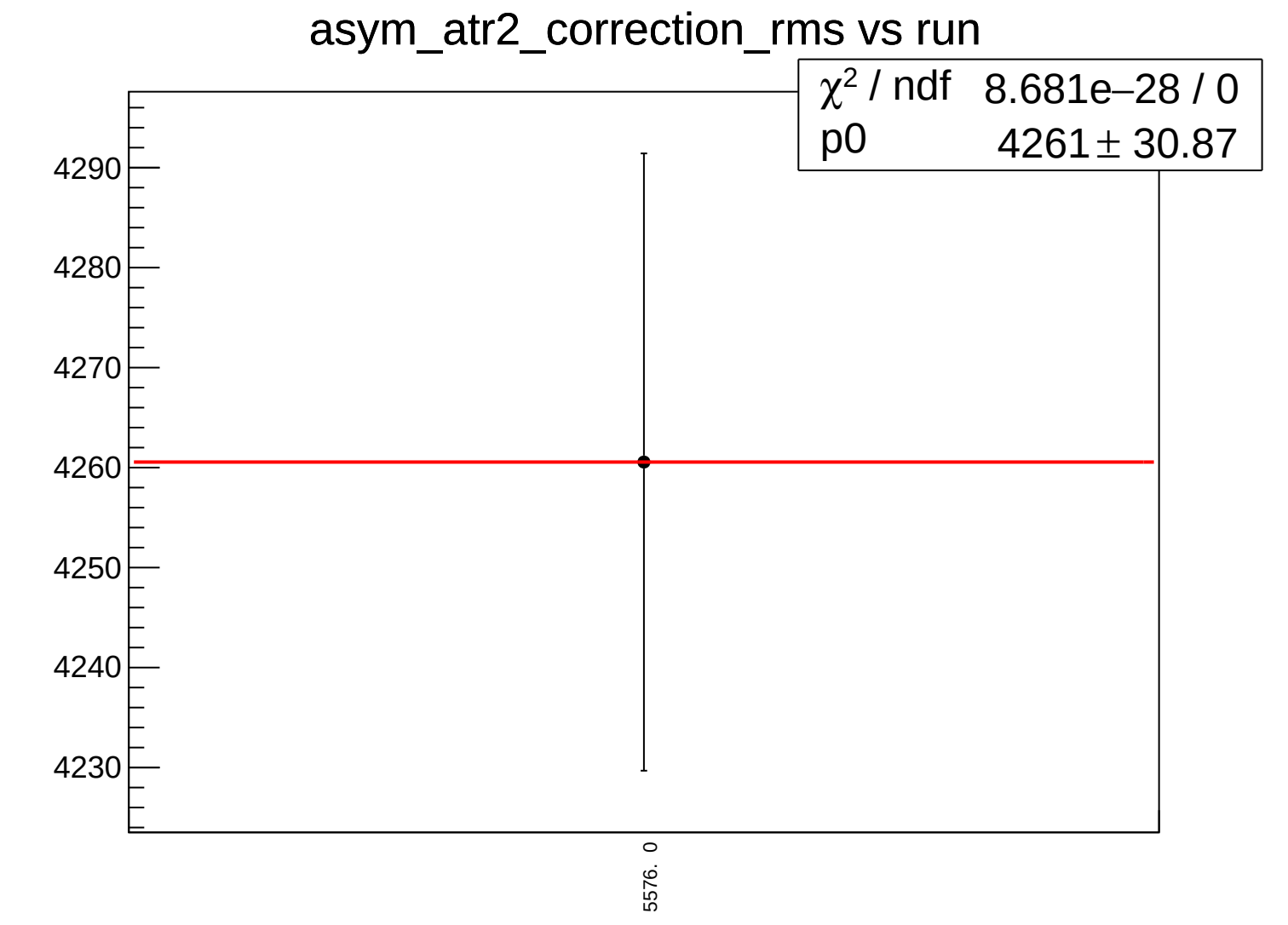

asym_atr1_rms vs run
χ² / ndf 0 / 0
p0 2945 ± 21.34
2970
2960
2950
2940
2930
2920
5576. 0

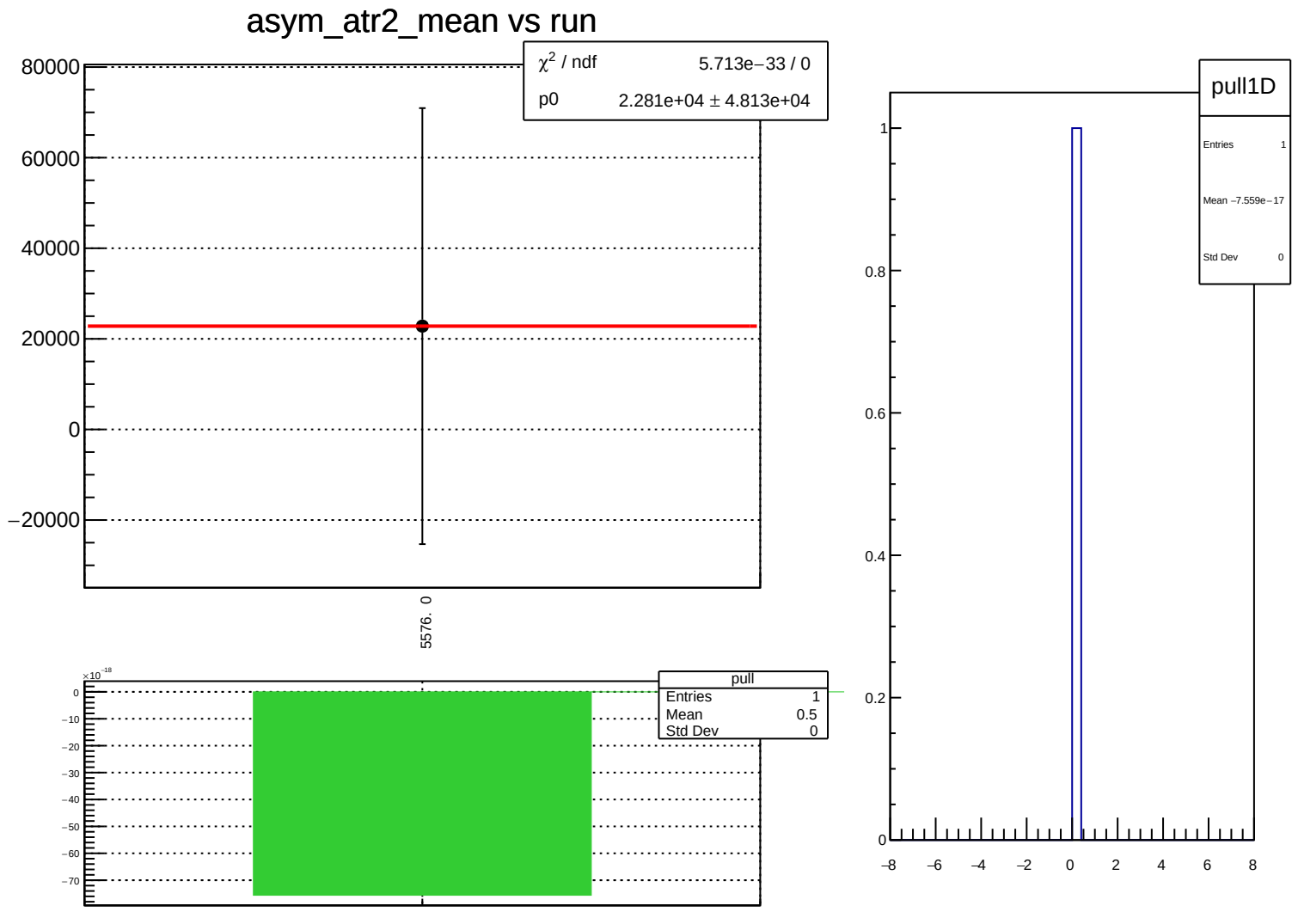

reg_asym_atr2_mean vs run
χ² / ndf 0 / 0
p0 56.49 ± 2.027e+04
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

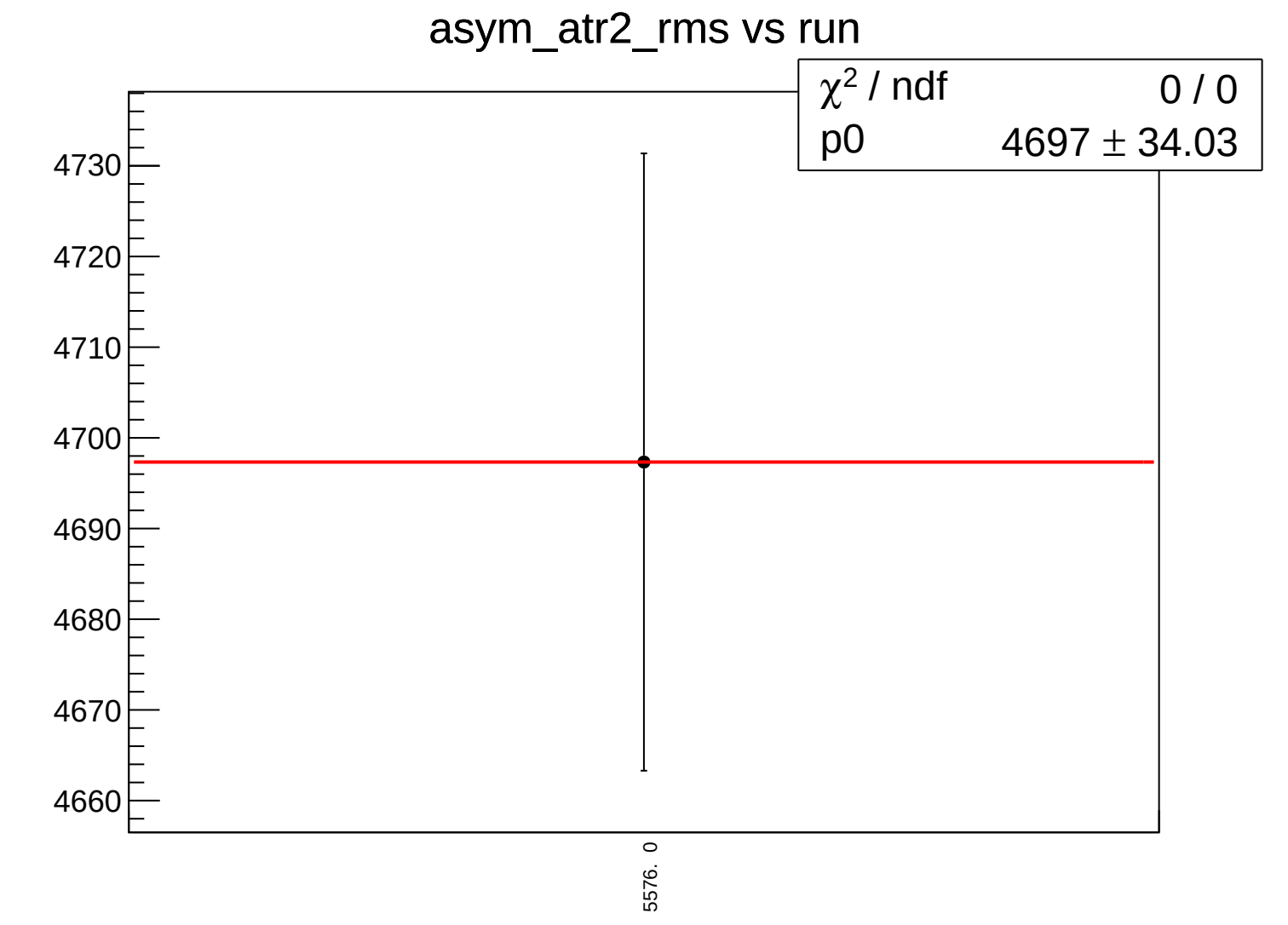

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

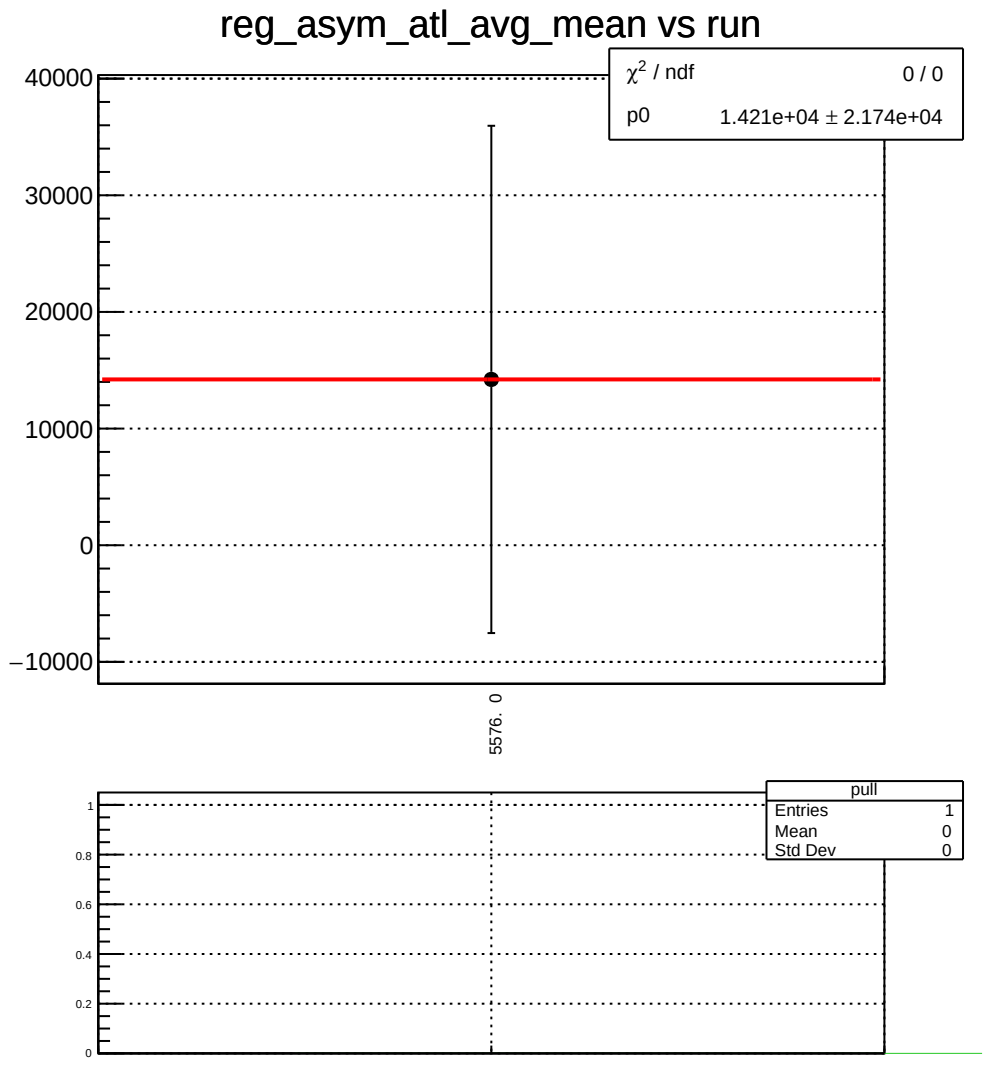

reg_asym_atr2_rms vs run
χ² / ndf 0 / 0
p0 1978 ± 14.33
1995
1990
1985
1980
1975
1970
1965
5576. 0

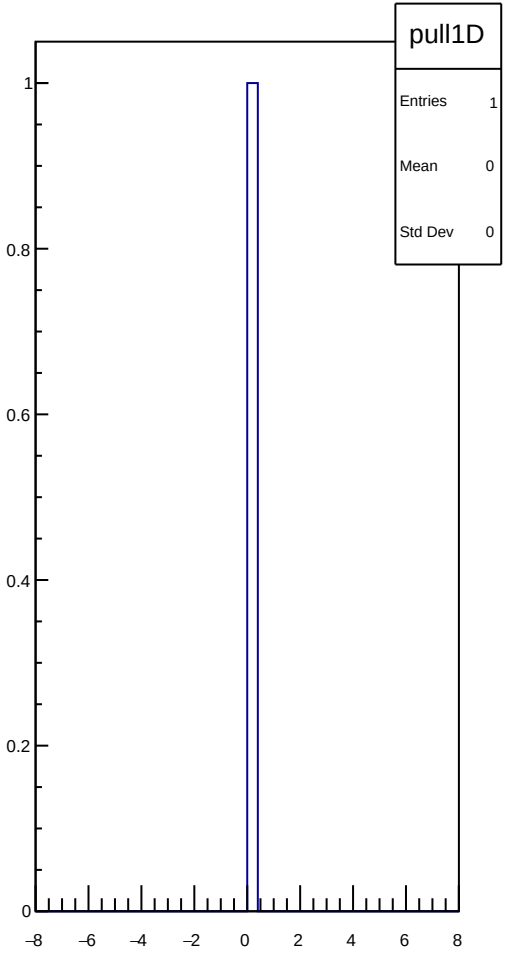

asym_atr2_correction_mean vs run
χ² / ndf 0 / 0
p0 −2.275e+04 ± 4.365e+04
20000
0
−20000
−40000
−60000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

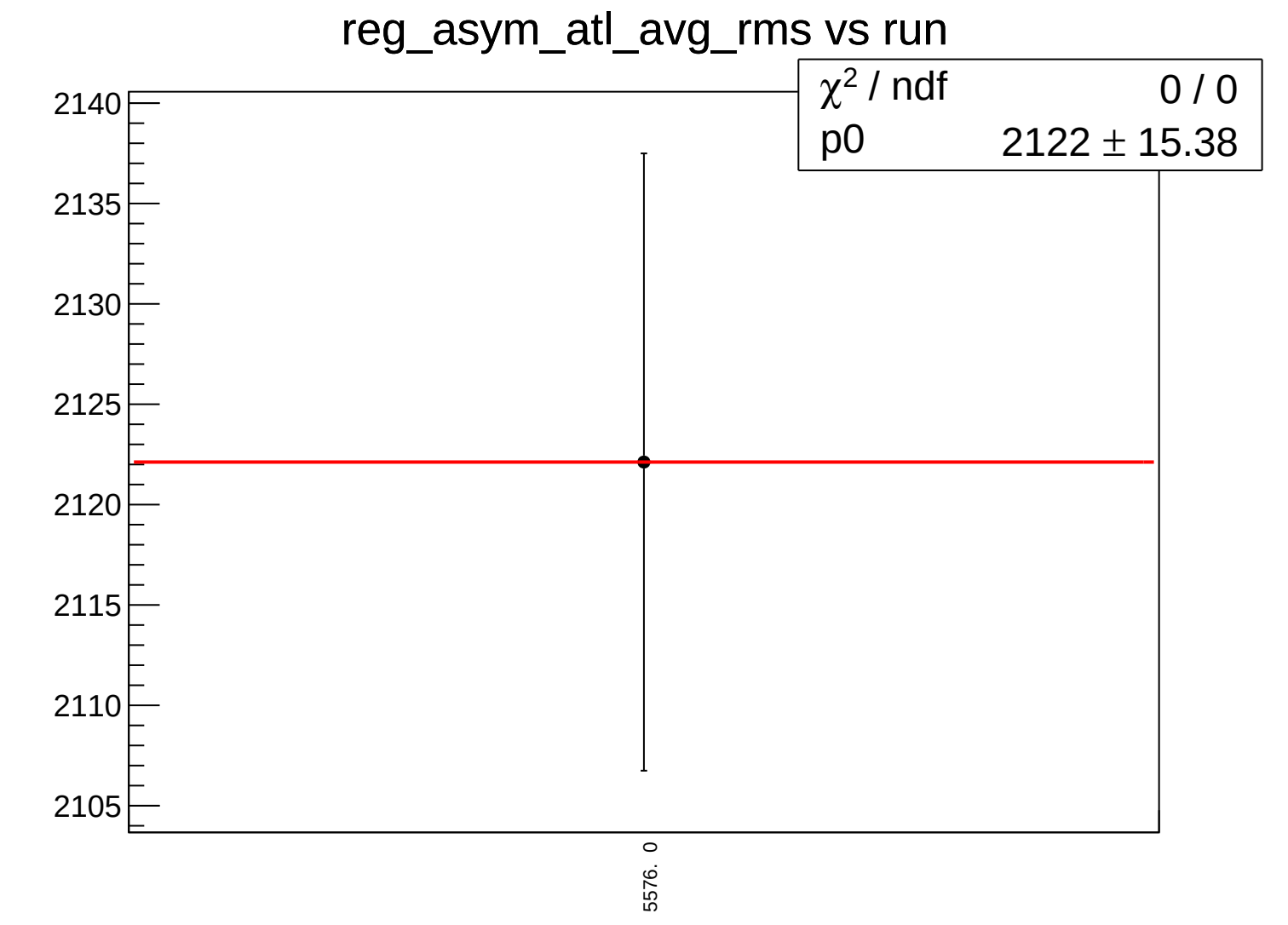

asym_atr2_correction_rms vs run
χ² / ndf 8.681e–28 / 0
p0 4261 ± 30.87
4290
4280
4270
4260
4250
4240
4230
5576. 0

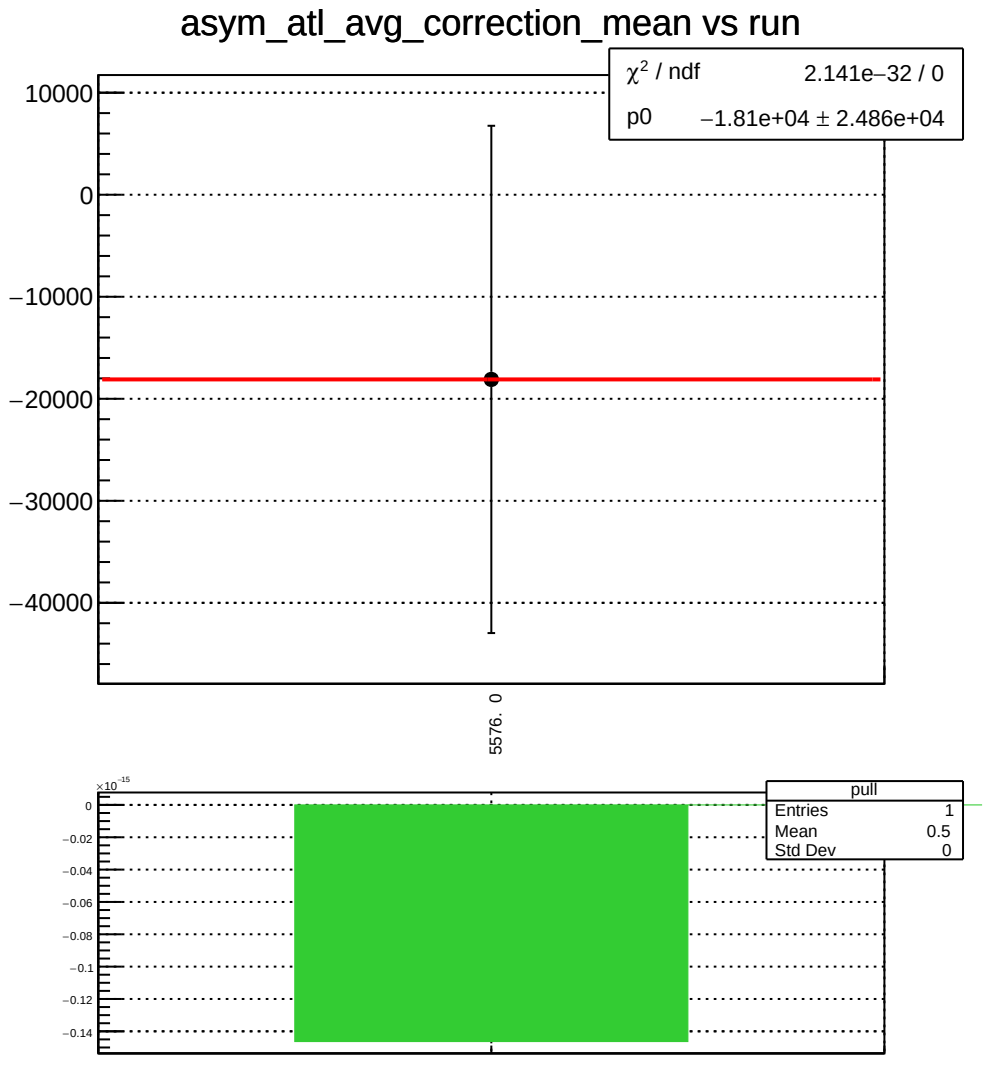

asym_atr2_mean vs run
χ² / ndf 5.713e−33 / 0
p0 2.281e+04 ± 4.813e+04
80000
60000
40000
20000
0
−20000
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −7.559e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

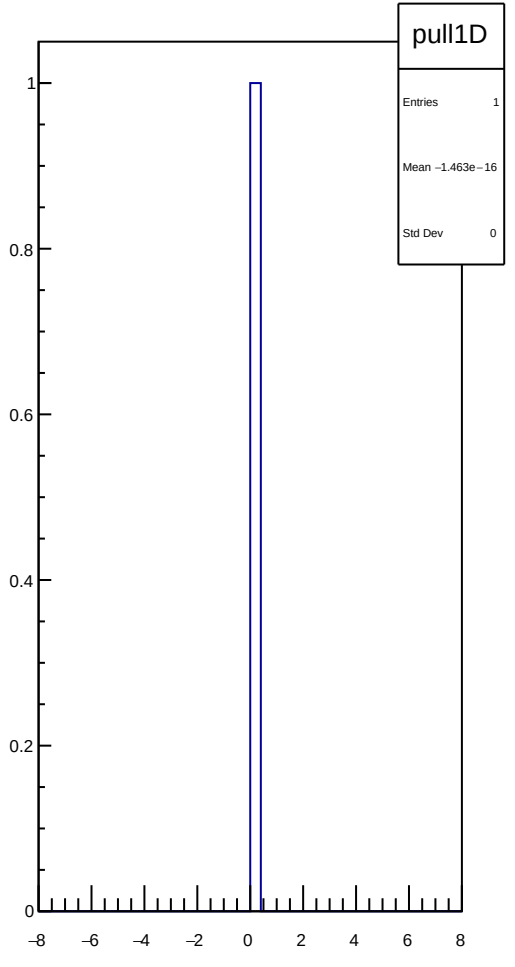

asym_atr2_rms vs run
χ² / ndf 0 / 0
p0 4697 ± 34.03
4730
4720
4710
4700
4690
4680
4670
4660
5576. 0

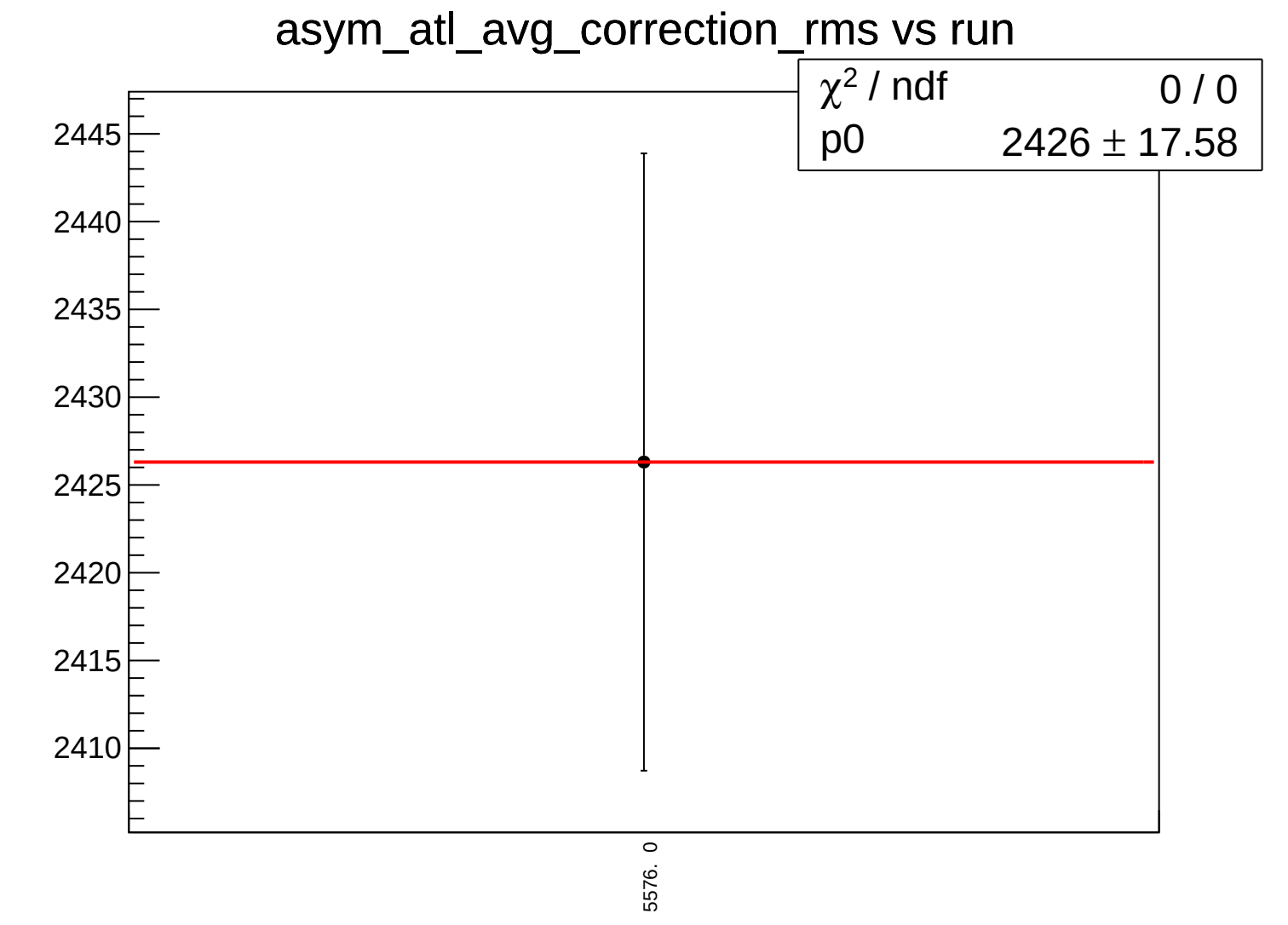

reg_asym_atl_avg_mean vs run
χ² / ndf 0 / 0
p0 1.421e+04 ± 2.174e+04
40000
30000
20000
10000
0
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

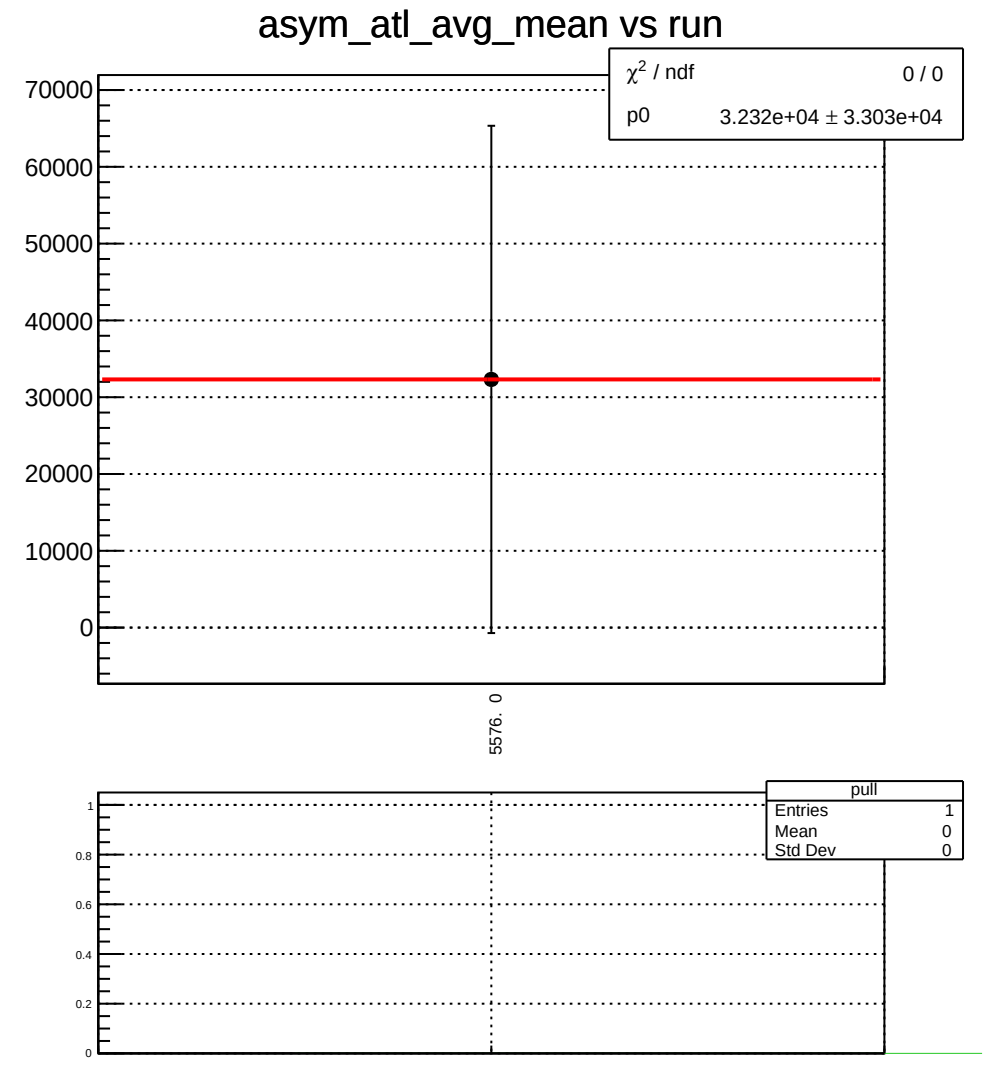

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

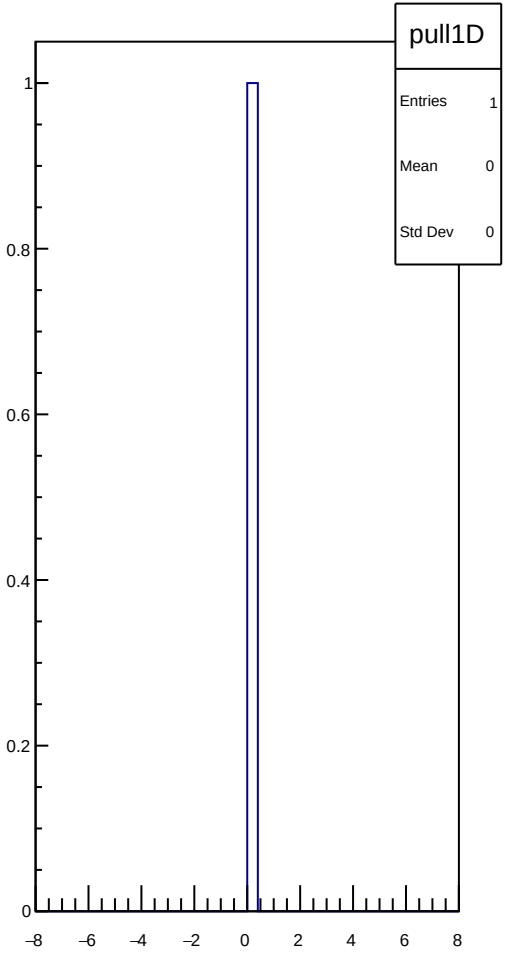

reg_asym_atl_avg_rms vs run
χ² / ndf 0 / 0
p0 2122 ± 15.38
2140
2135
2130
2125
2120
2115
2110
2105
5576. 0

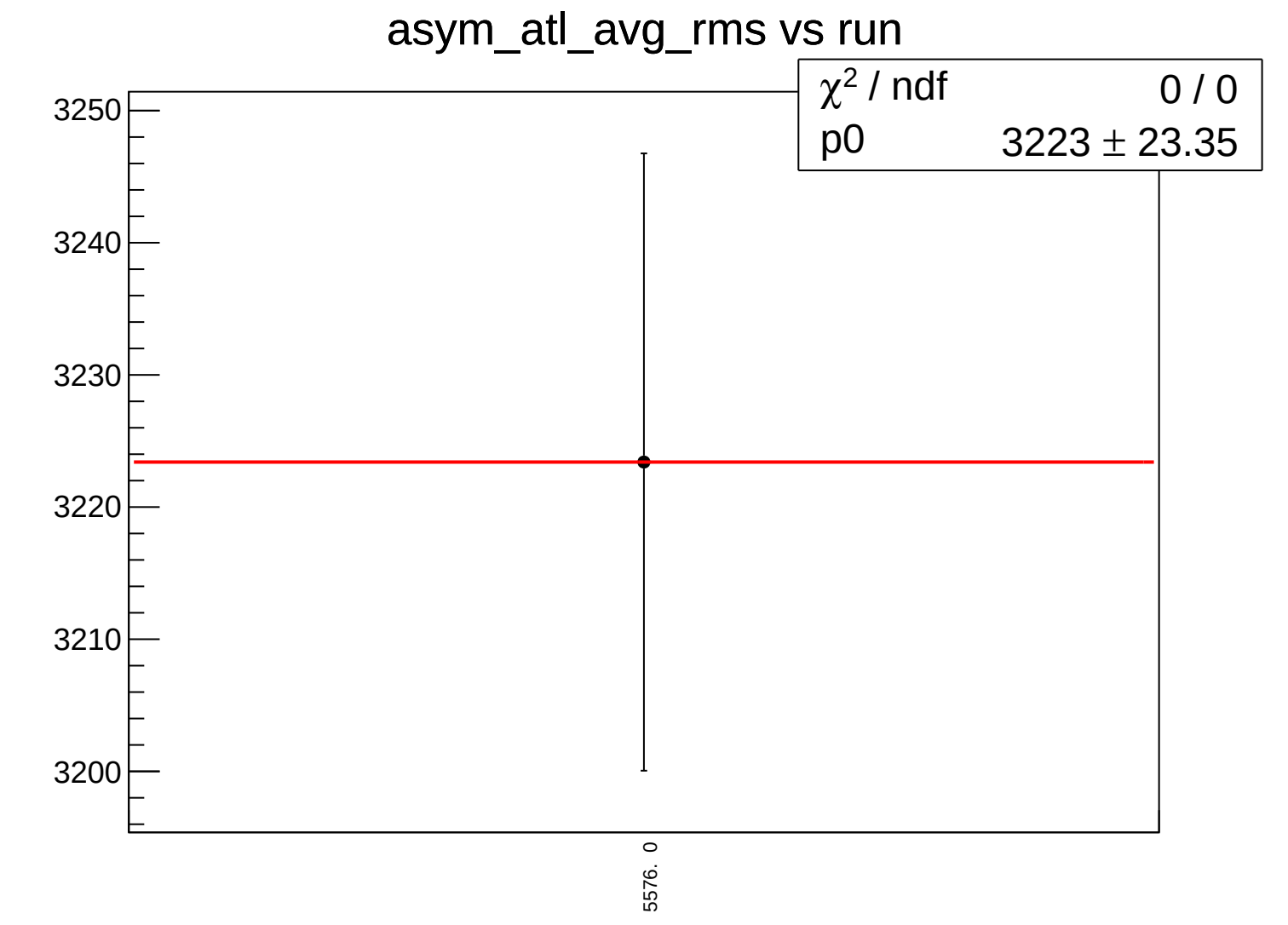

asym_atl_avg_correction_mean vs run
χ² / ndf 2.141e−32 / 0
p0 −1.81e+04 ± 2.486e+04
10000
0
−10000
−20000
−30000
−40000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0

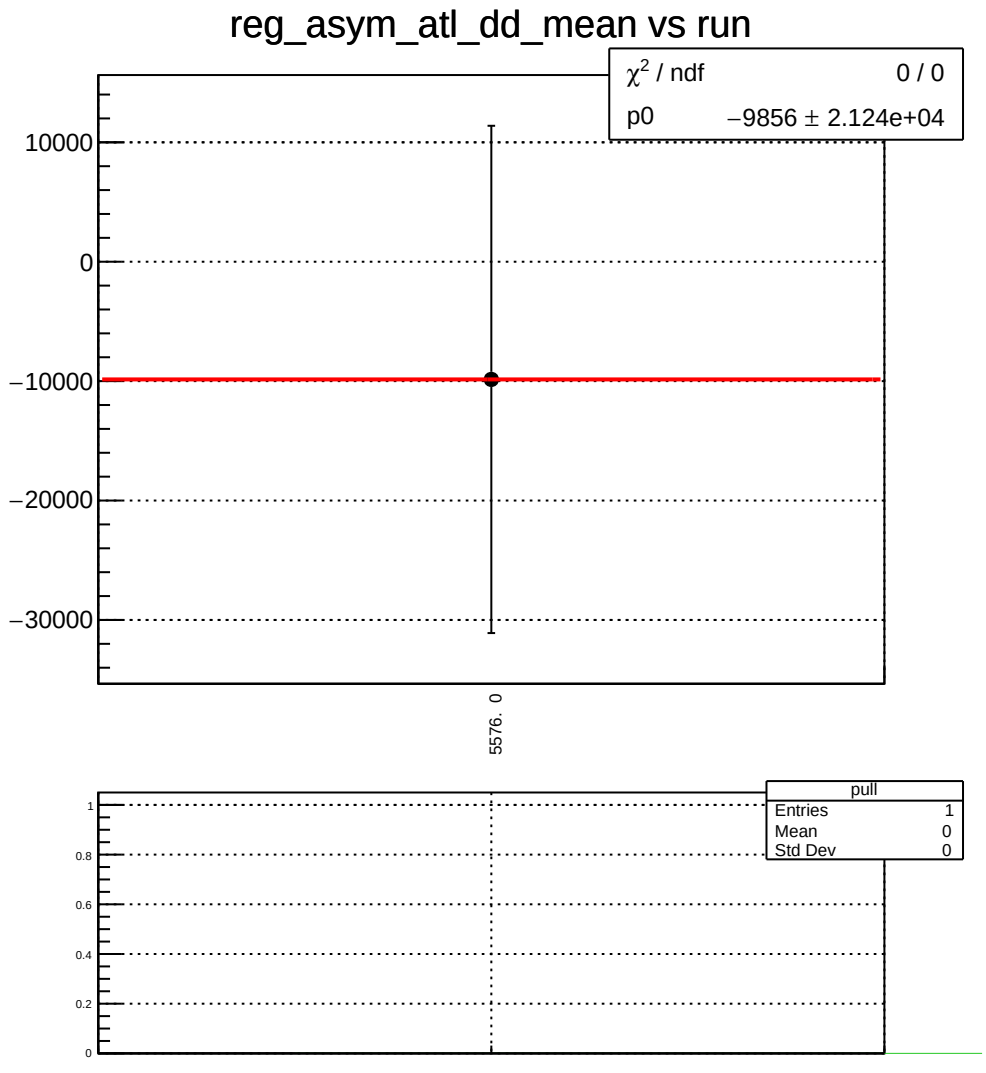

pull1D
Entries 1
Mean −1.463e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

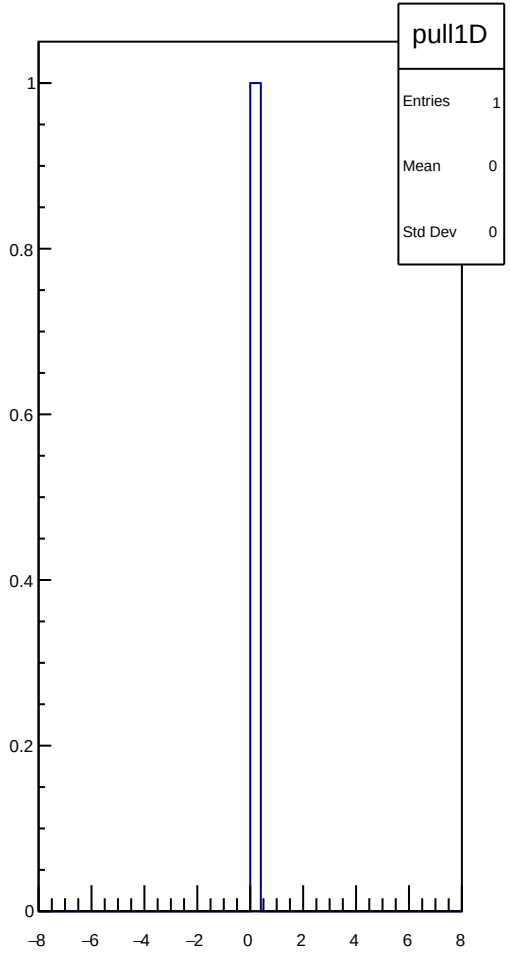

asym_atl_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 2426 ± 17.58
2445
2440
2435
2430
2425
2420
2415
2410
5576. 0

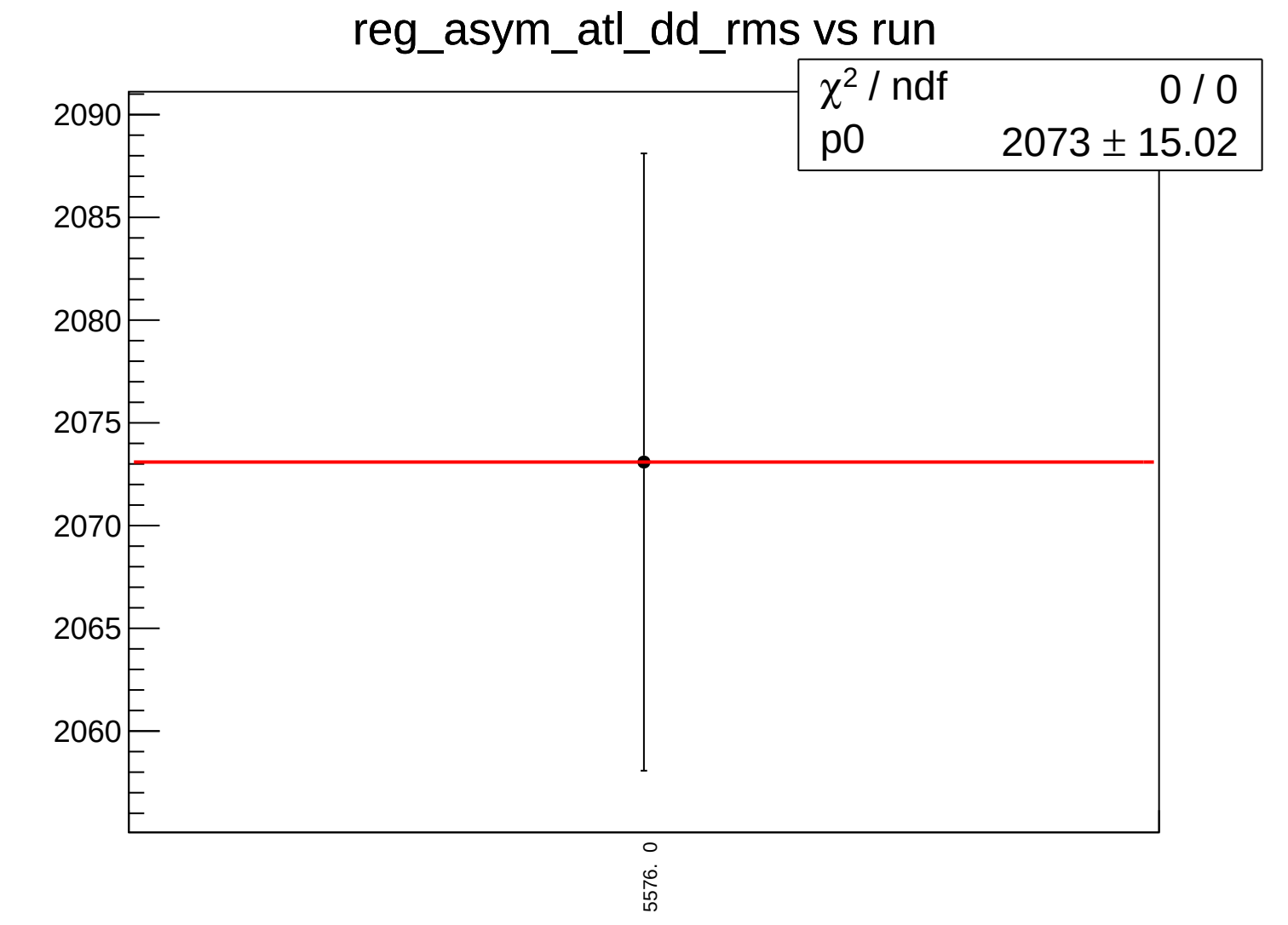

asym_atl_avg_mean vs run
χ² / ndf 0 / 0
p0 3.232e+04 ± 3.303e+04
70000
60000
50000
40000
30000
20000
10000
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

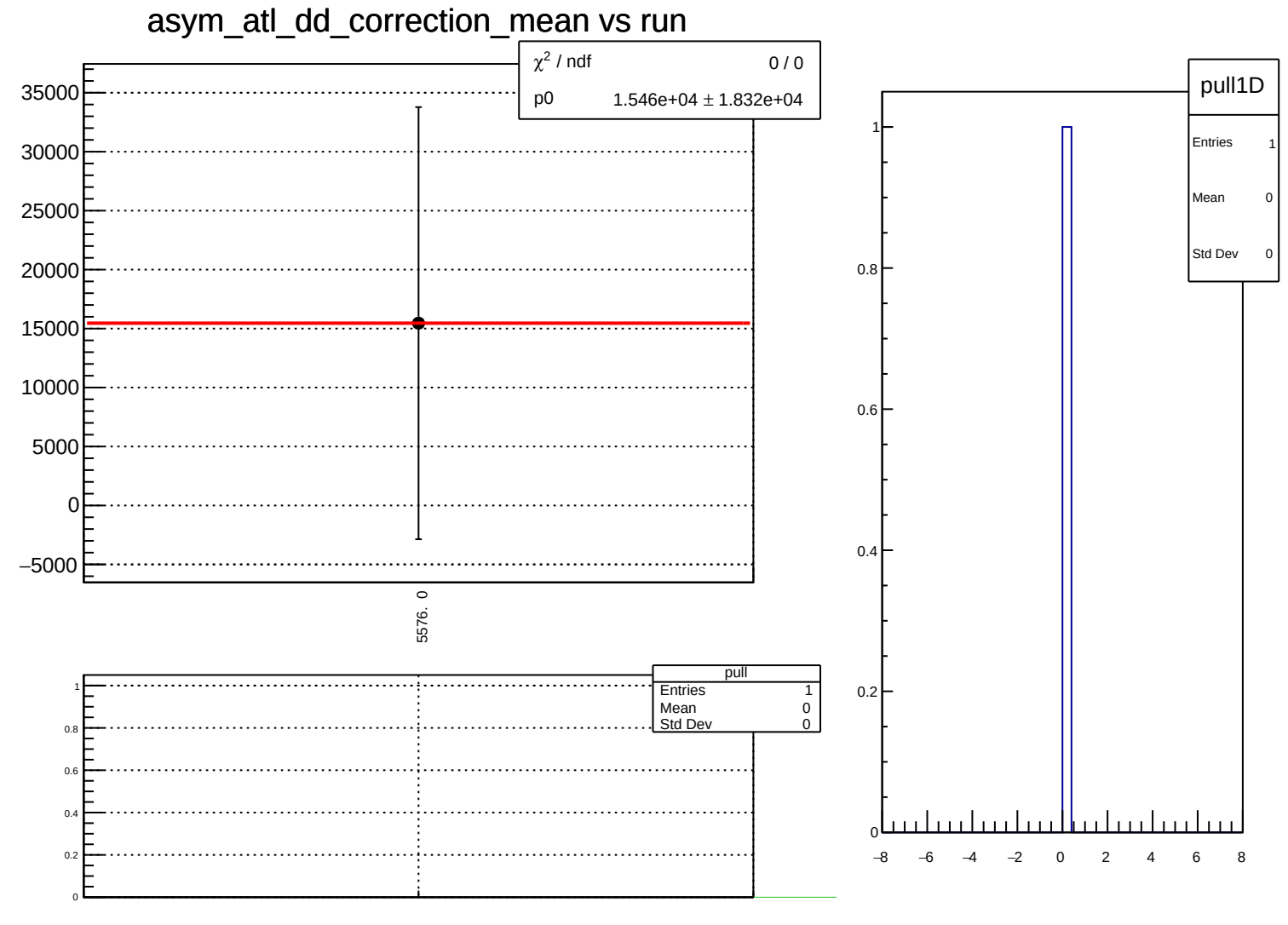

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

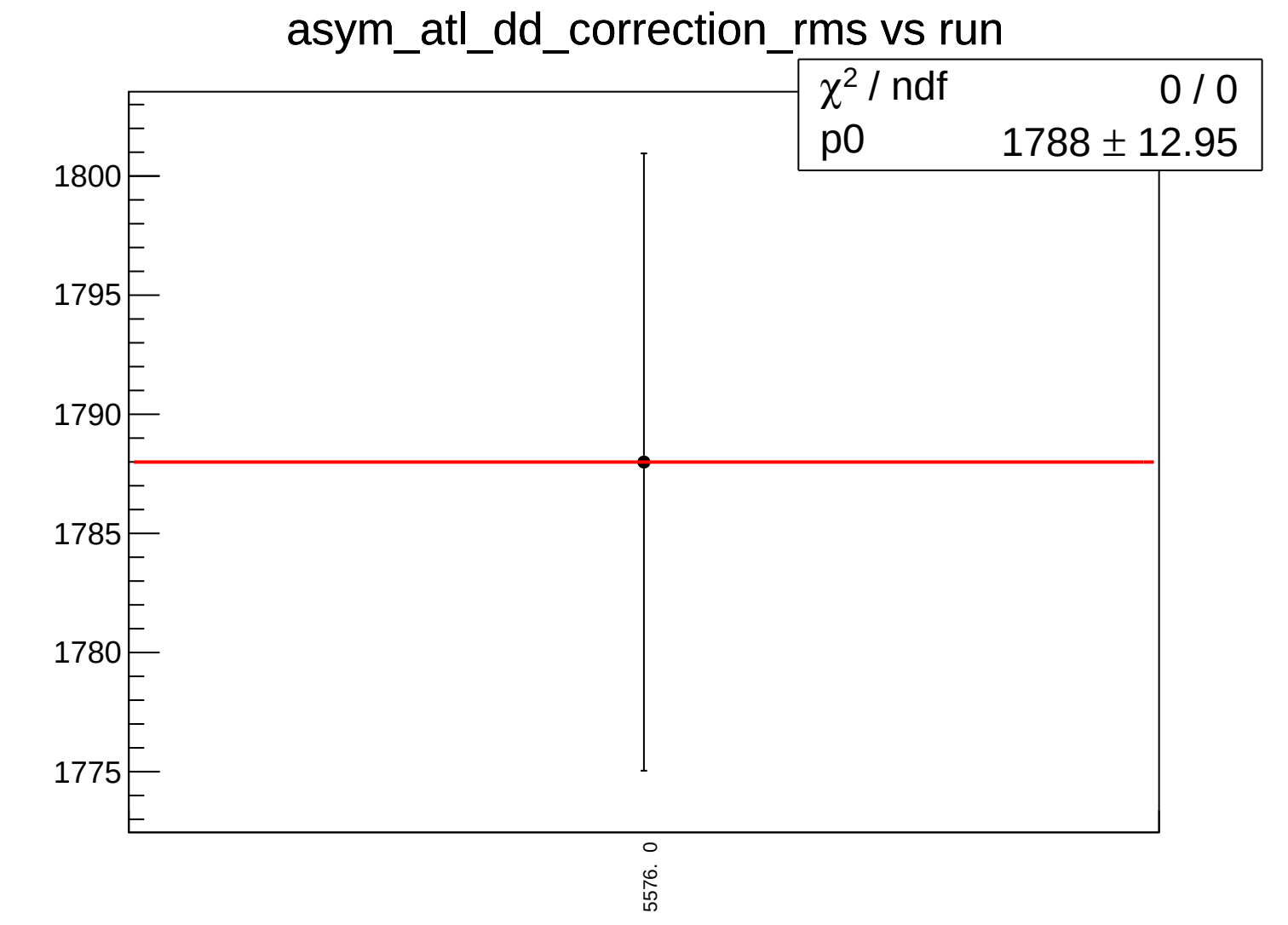

asym_atl_avg_rms vs run
χ² / ndf 0 / 0
p0 3223 ± 23.35
3250
3240
3230
3220
3210
3200
5576. 0

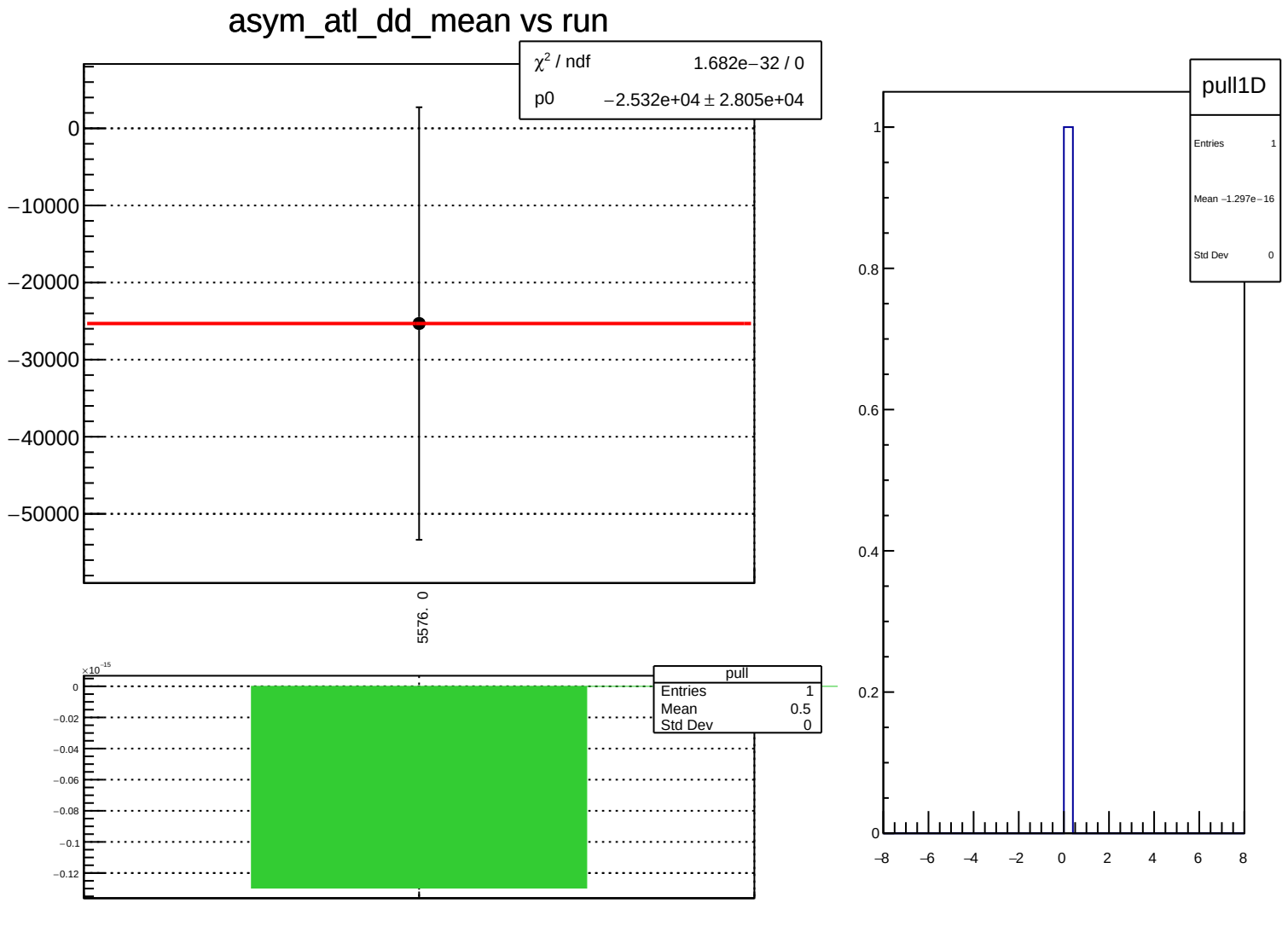

reg_asym_atl_dd_mean vs run
χ² / ndf 0 / 0
p0 −9856 ± 2.124e+04
10000
0
−10000
−20000
−30000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_atl_dd_rms vs run
χ² / ndf 0 / 0
p0 2073 ± 15.02
2090
2085
2080
2075
2070
2065
2060
5576. 0


asym_atl_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1.546e+04 ± 1.832e+04
35000
30000
25000
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 1788 ± 12.95
1800
1795
1790
1785
1780
1775
5576. 0


asym_atl_dd_mean vs run
χ² / ndf 1.682e−32 / 0
p0 −2.532e+04 ± 2.805e+04
0
−10000
−20000
−30000
−40000
−50000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.297e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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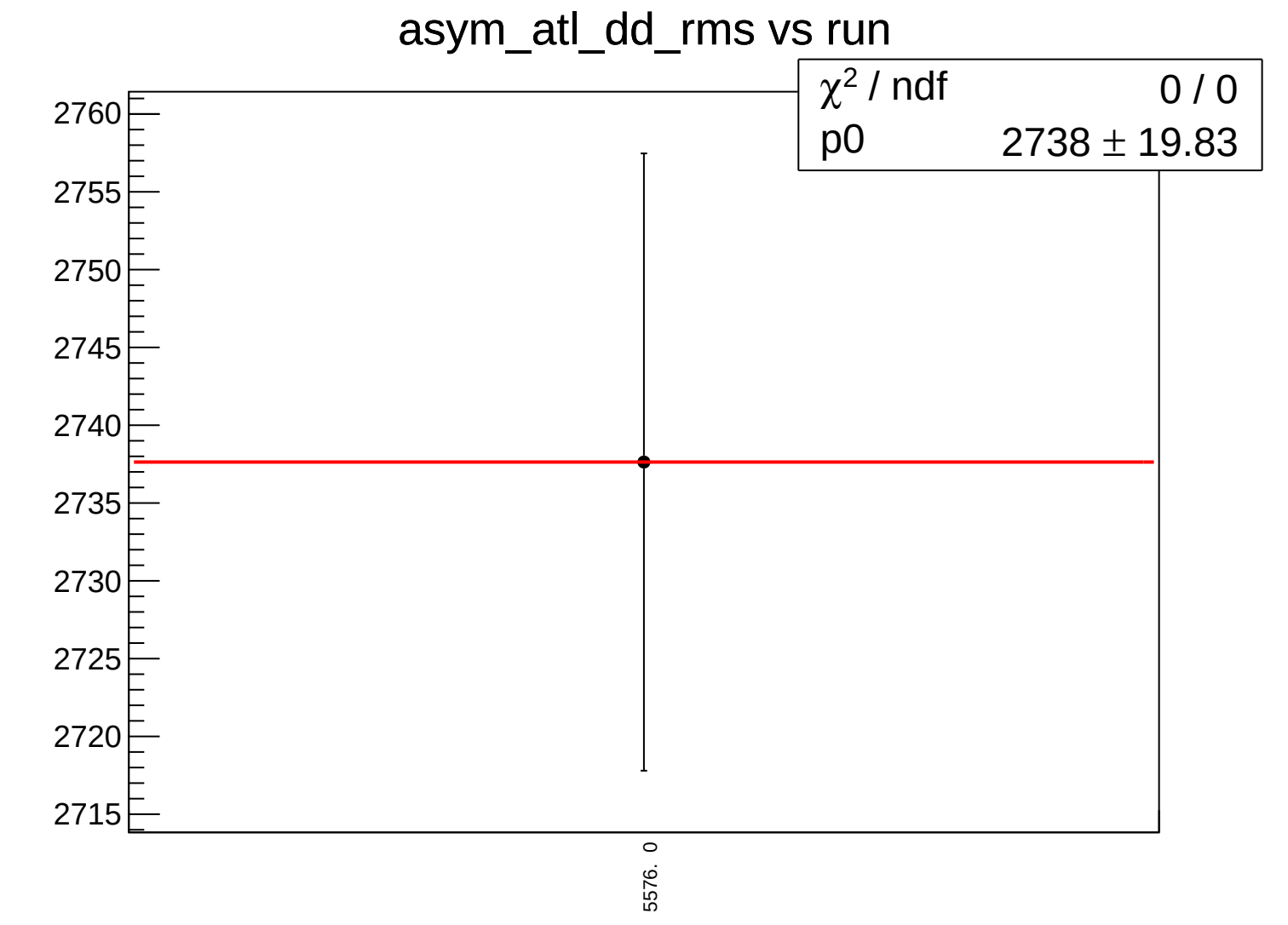
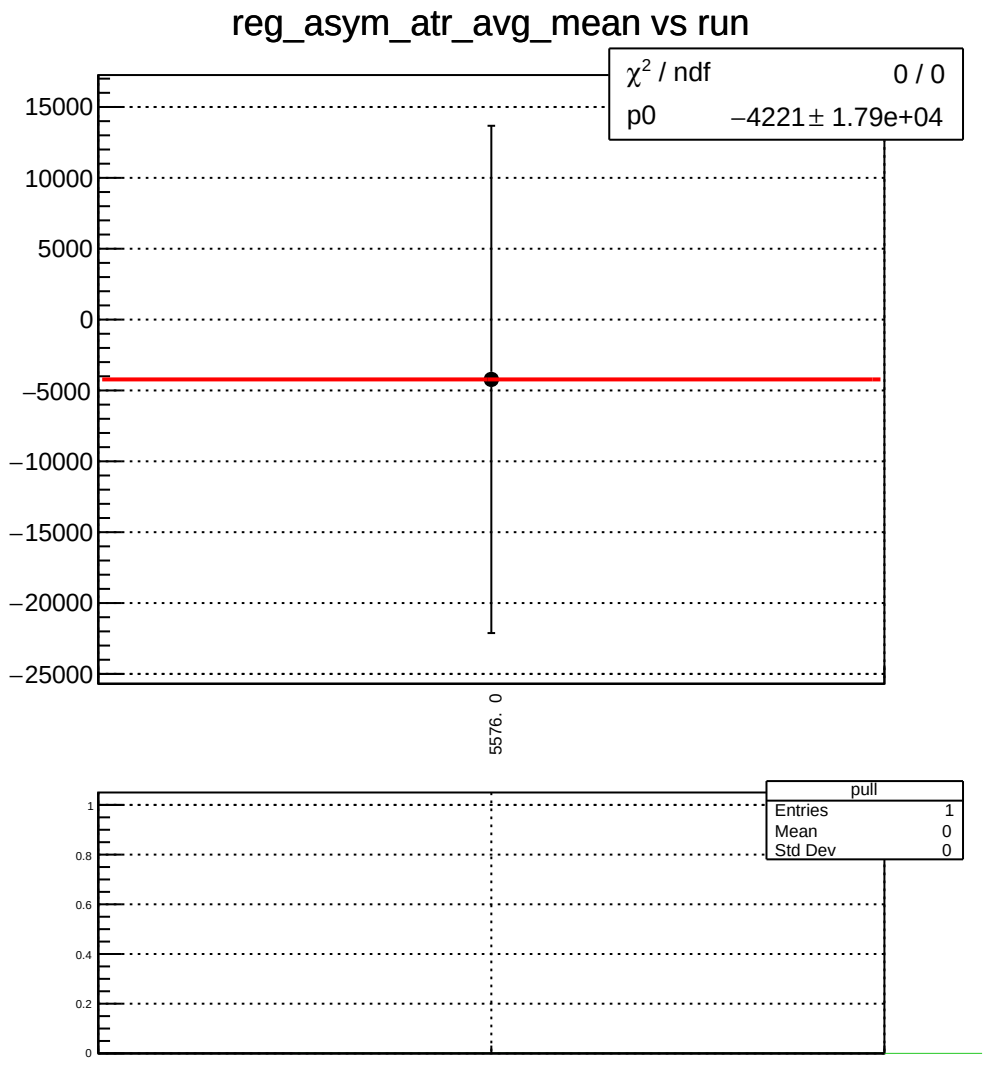
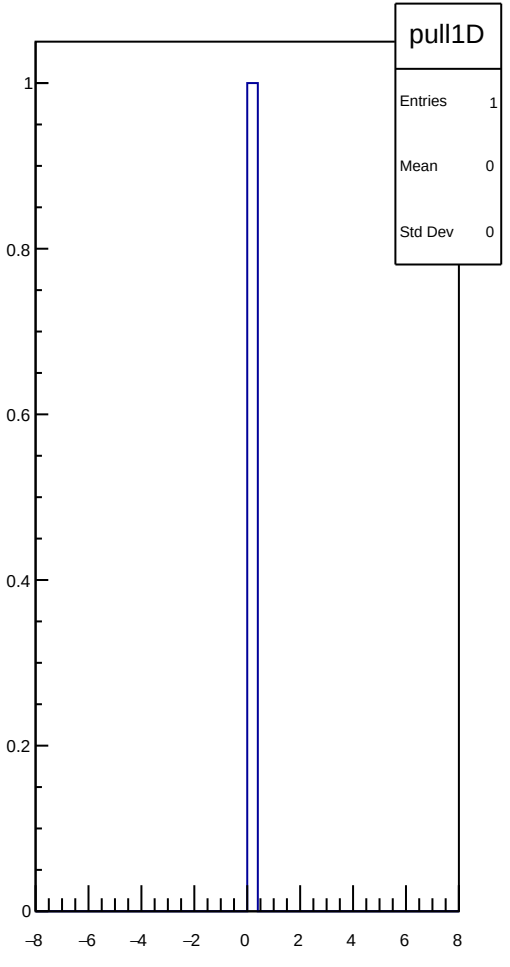
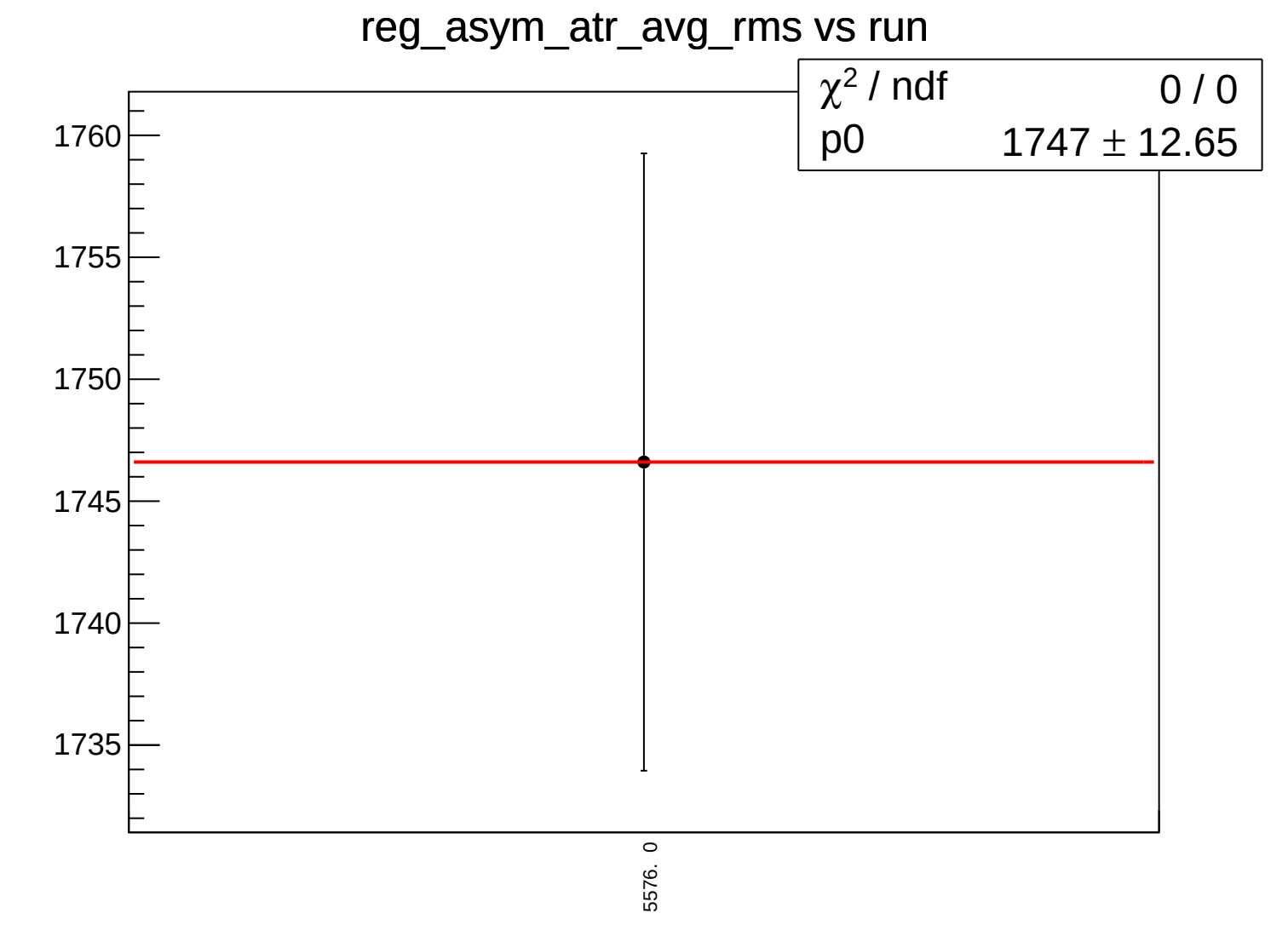
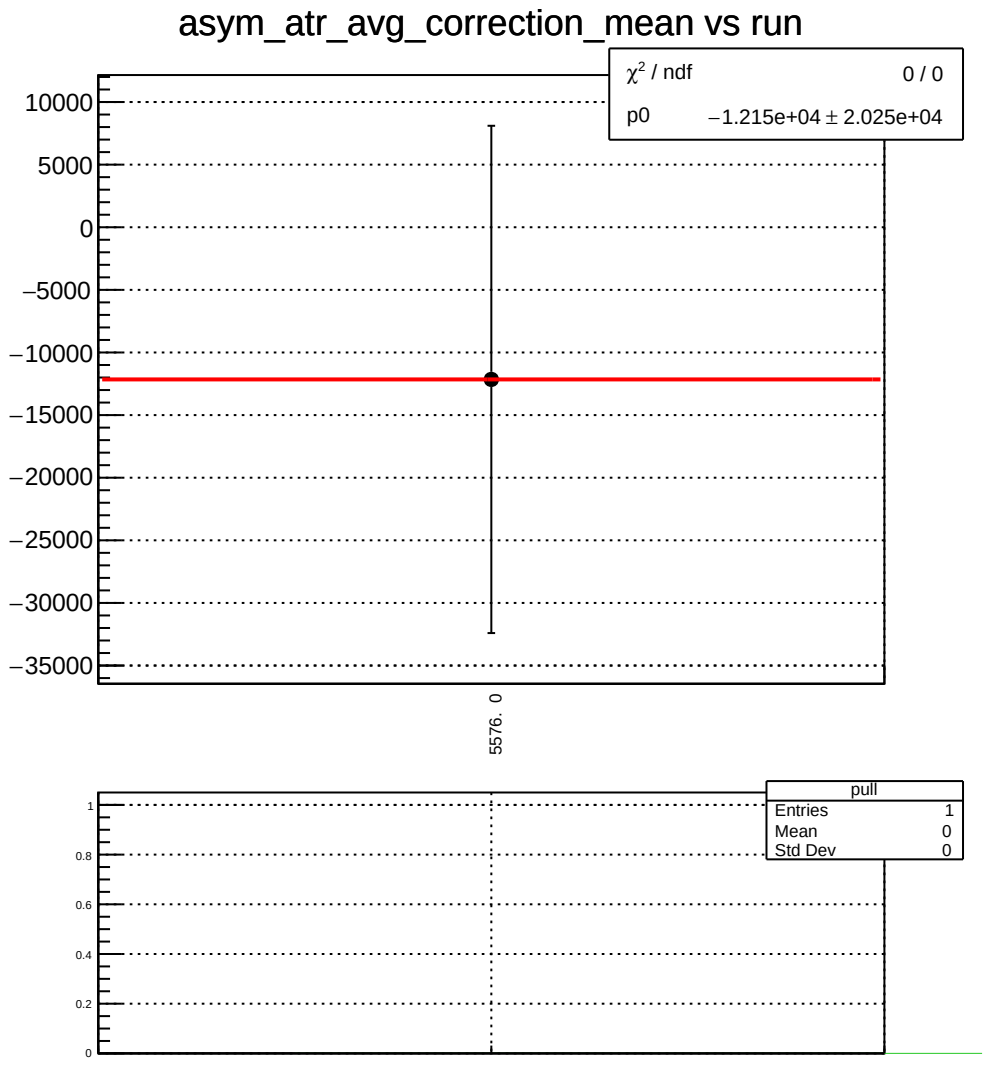
0
2
4
6
8

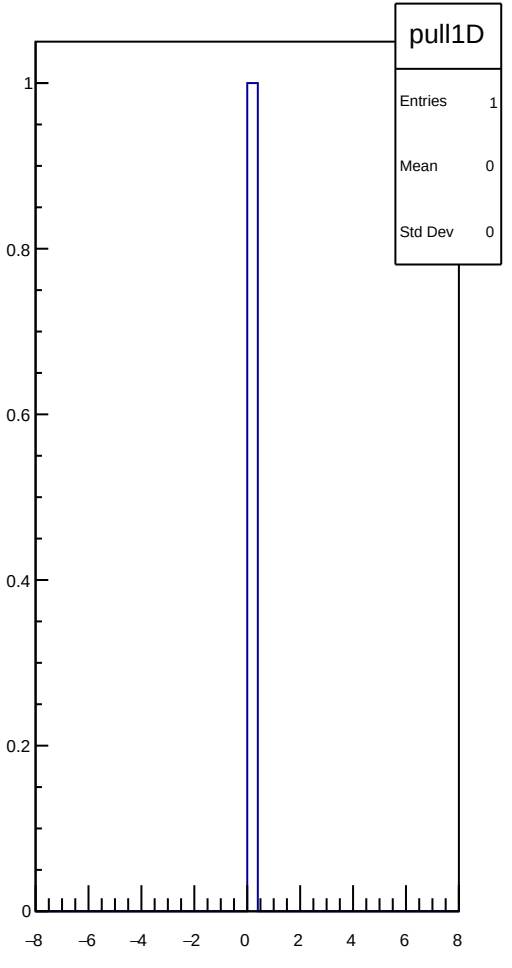

asym_atl_dd_rms vs run
χ² / ndf 0 / 0
p0 2738 ± 19.83
2760
2755
2750
2745
2740
2735
2730
2725
2720
2715
5576. 0

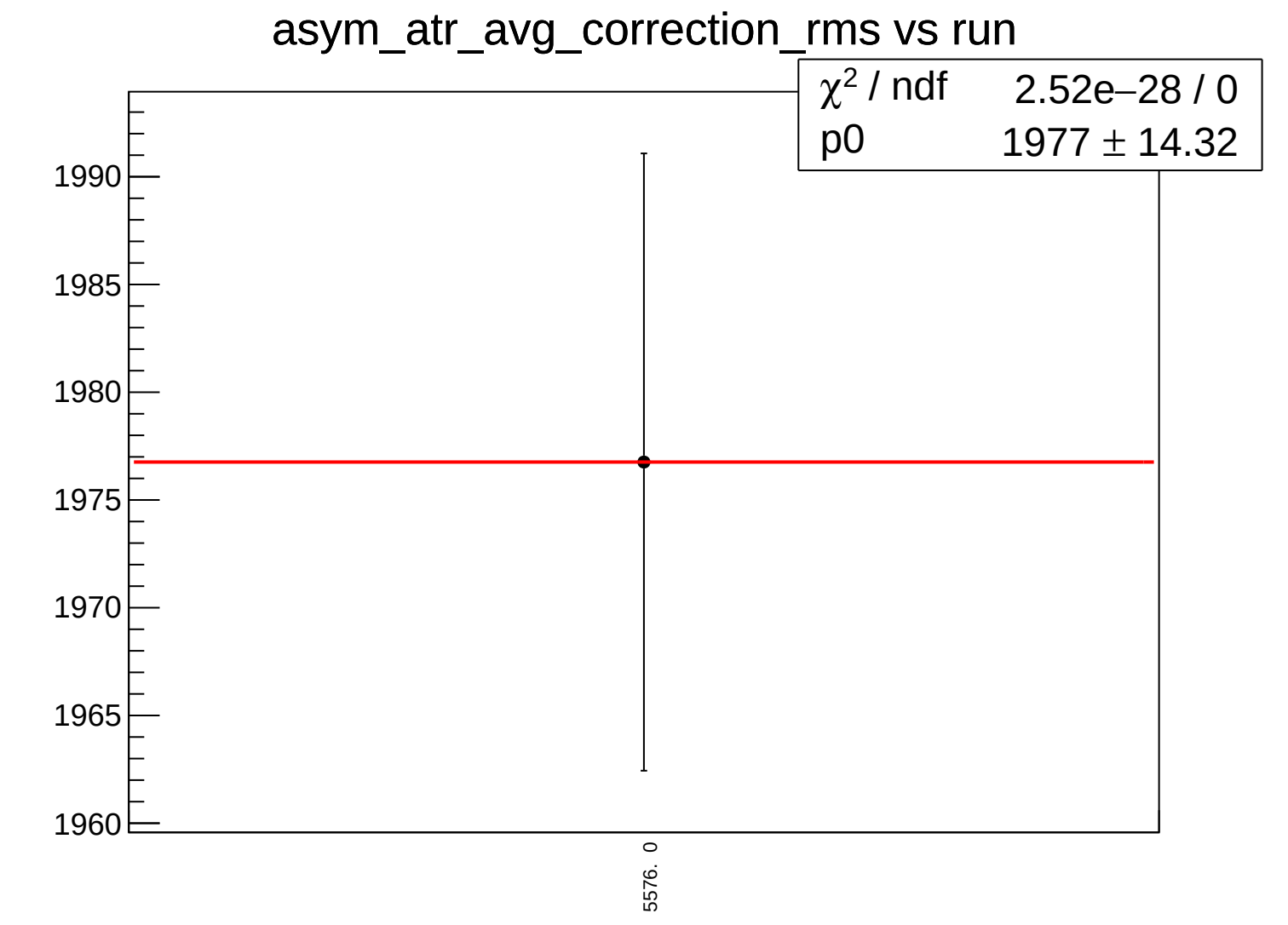

reg_asym_atr_avg_mean vs run
χ² / ndf 0 / 0
p0 −4221 ± 1.79e+04
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

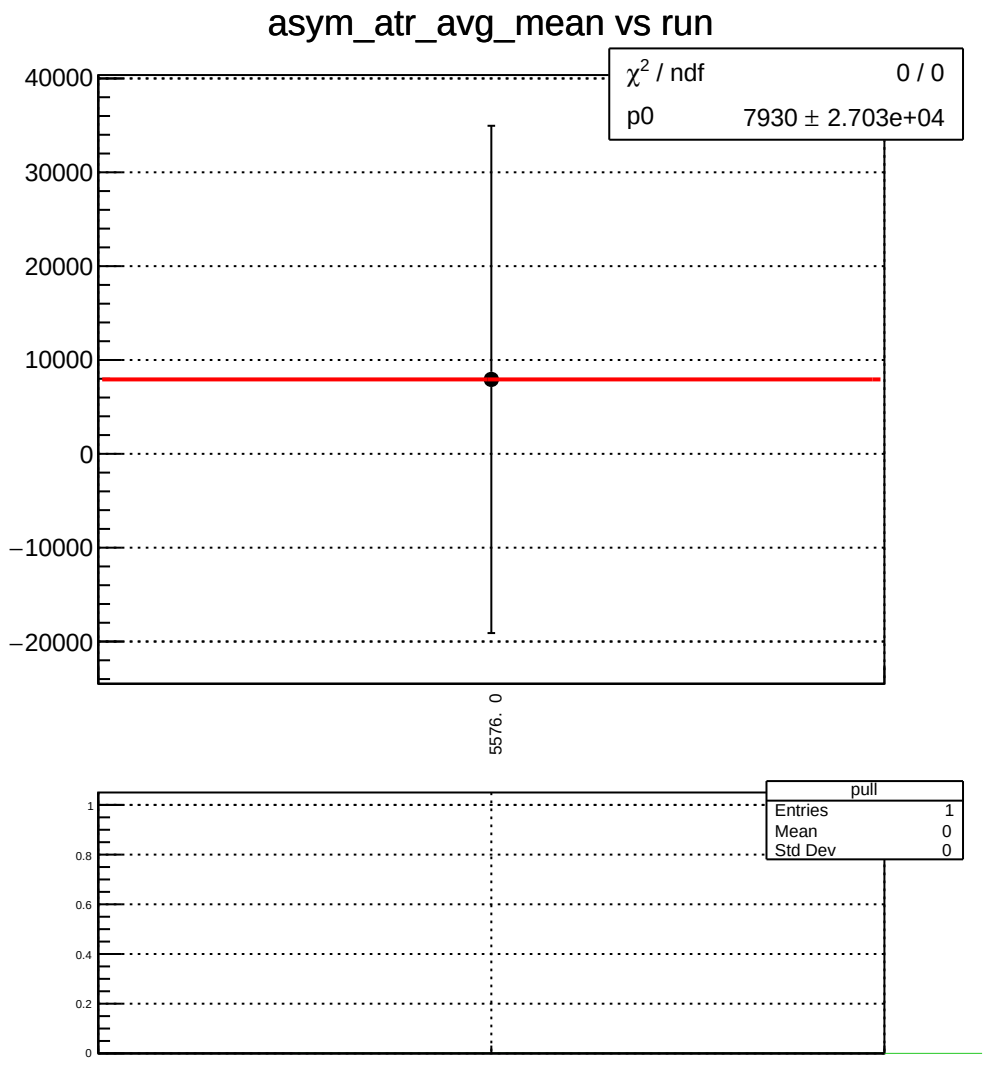

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

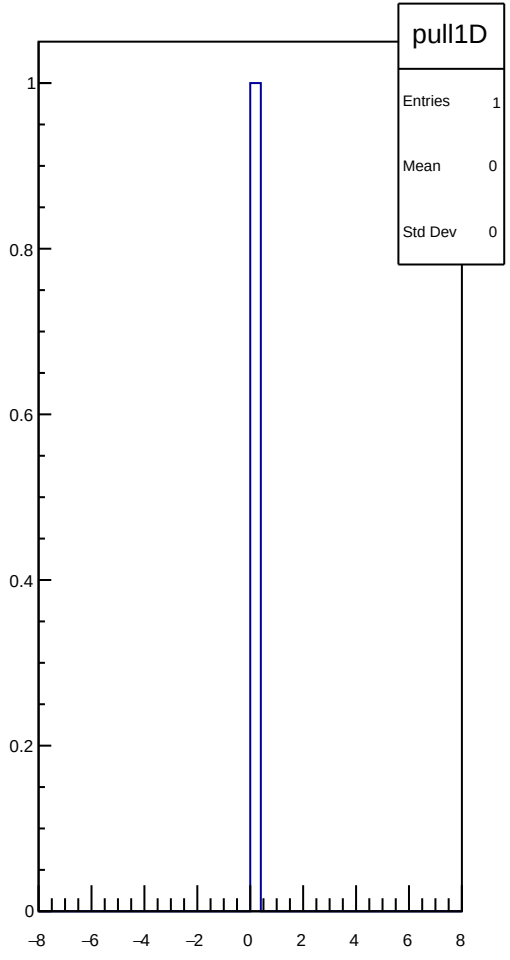

reg_asym_atr_avg_rms vs run
χ² / ndf 0 / 0
p0 1747 ± 12.65
1760
1755
1750
1745
1740
1735
5576. 0

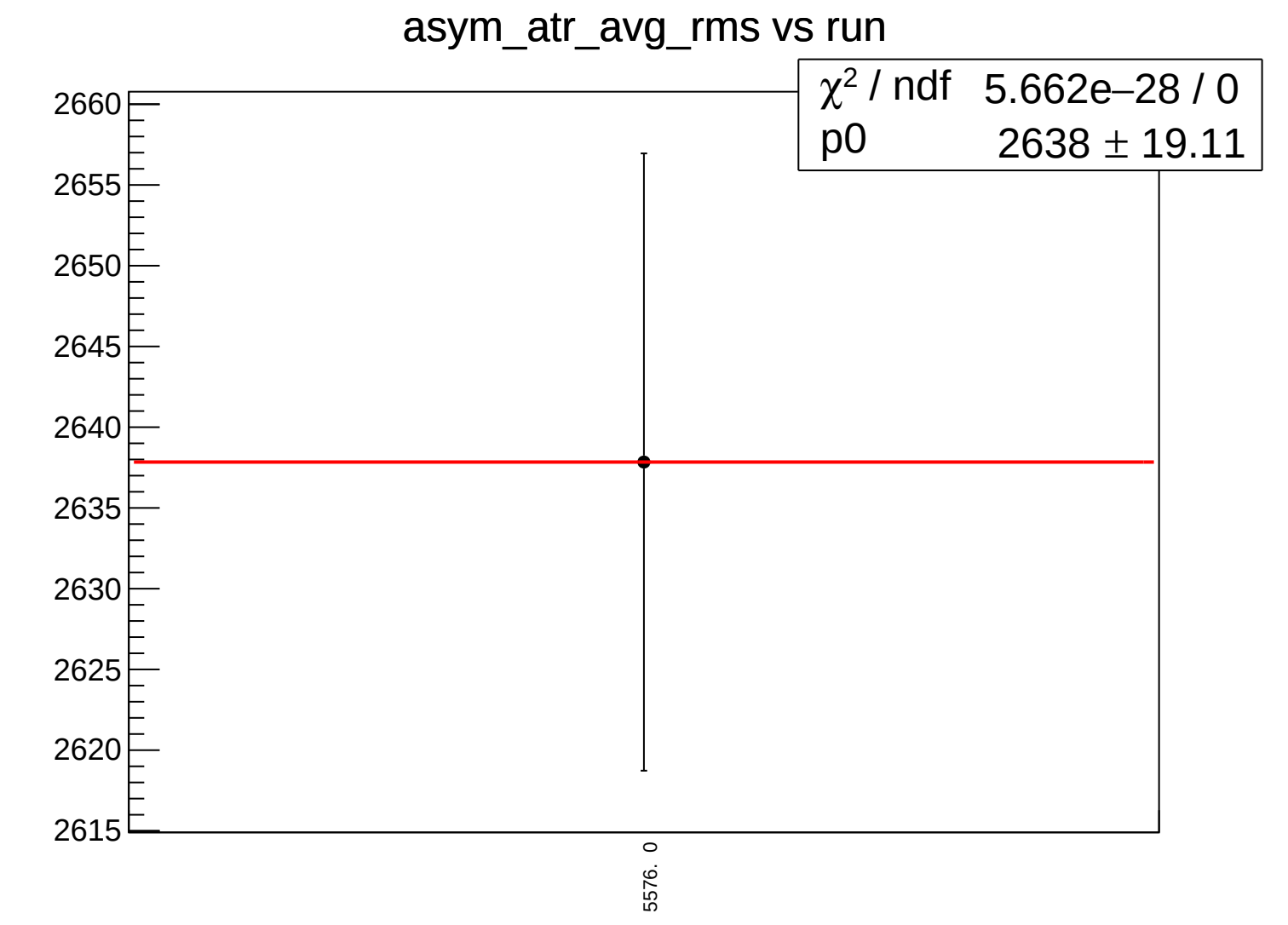

asym_atr_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −1.215e+04 ± 2.025e+04
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

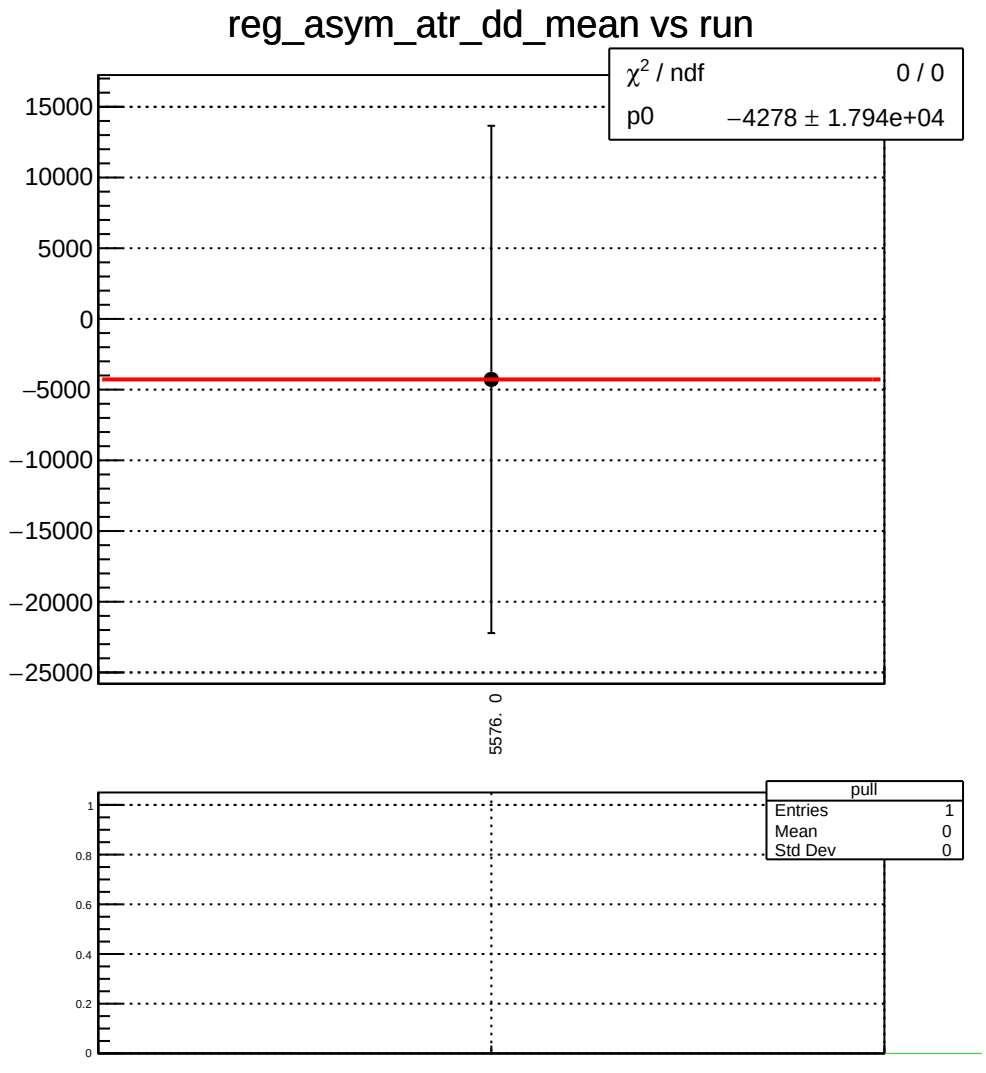

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

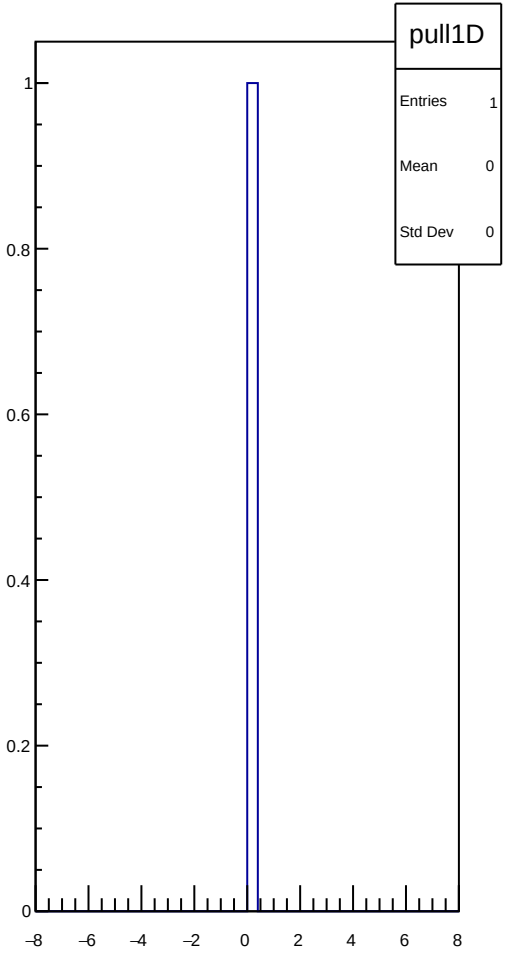

asym_atr_avg_correction_rms vs run
χ² / ndf 2.52e−28 / 0
p0 1977 ± 14.32
1990
1985
1980
1975
1970
1965
1960
5576. 0


asym_atr_avg_mean vs run
χ² / ndf 0 / 0
p0 7930 ± 2.703e+04
40000
30000
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_atr_avg_rms vs run
χ² / ndf 5.662e–28 / 0
p0 2638 ± 19.11
2660
2655
2650
2645
2640
2635
2630
2625
2620
2615
5576. 0


reg_asym_atr_dd_mean vs run
χ² / ndf 0 / 0
p0 −4278 ± 1.794e+04
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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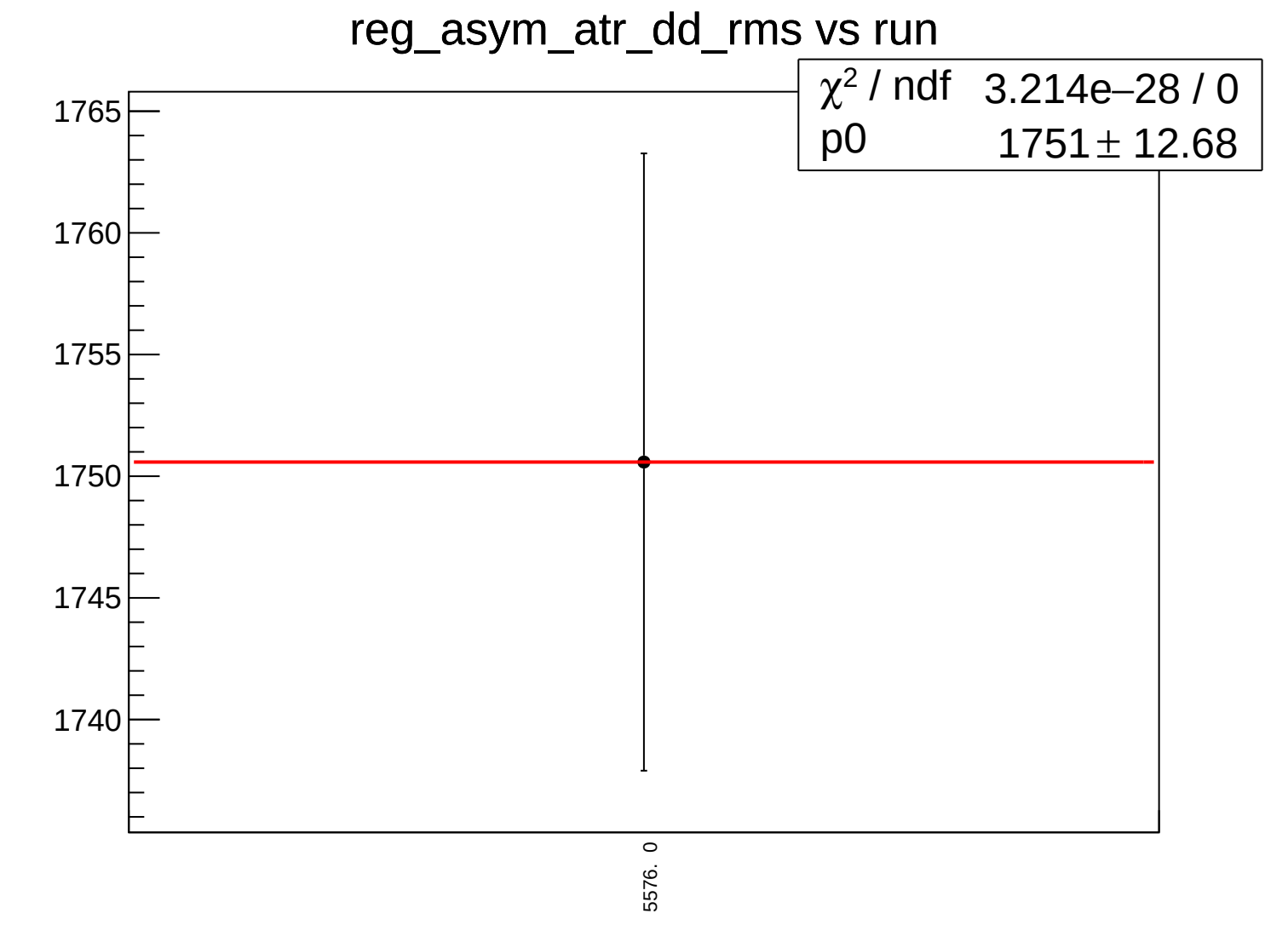
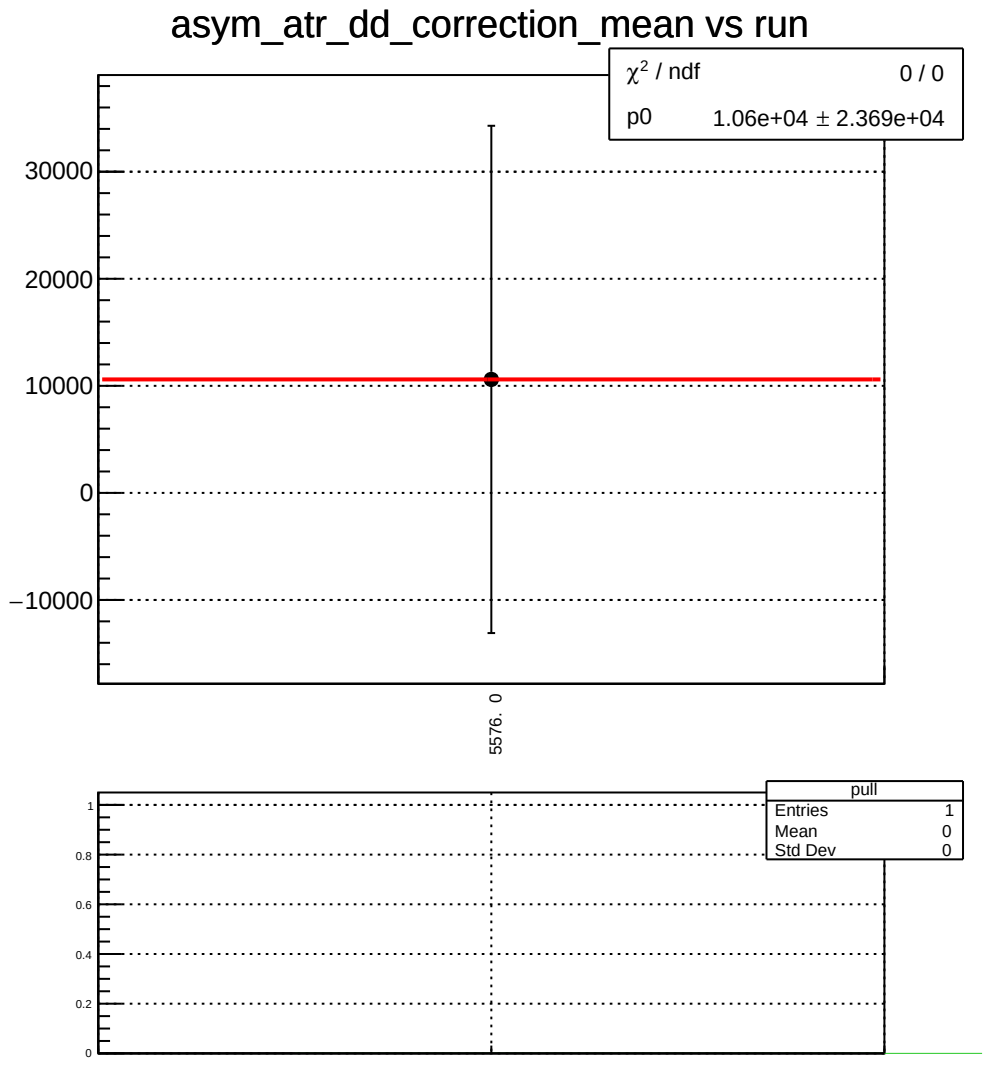
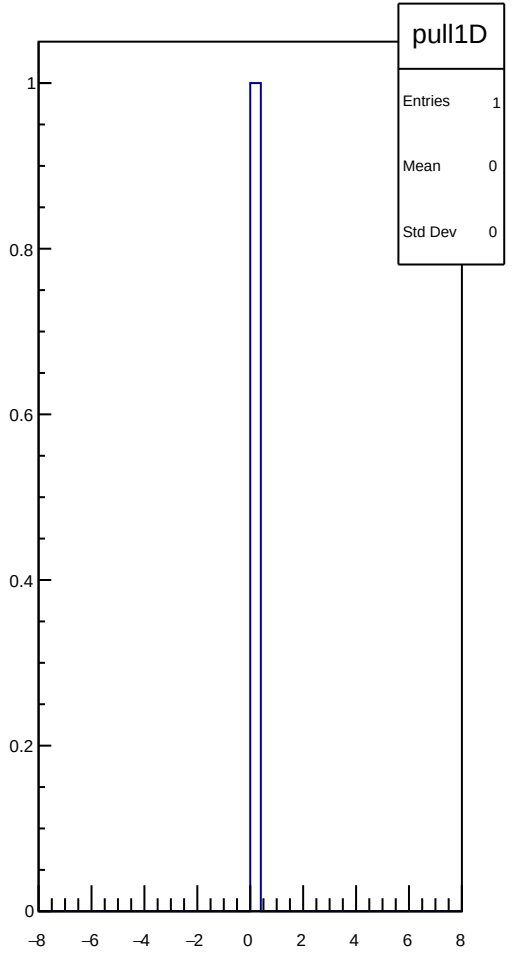
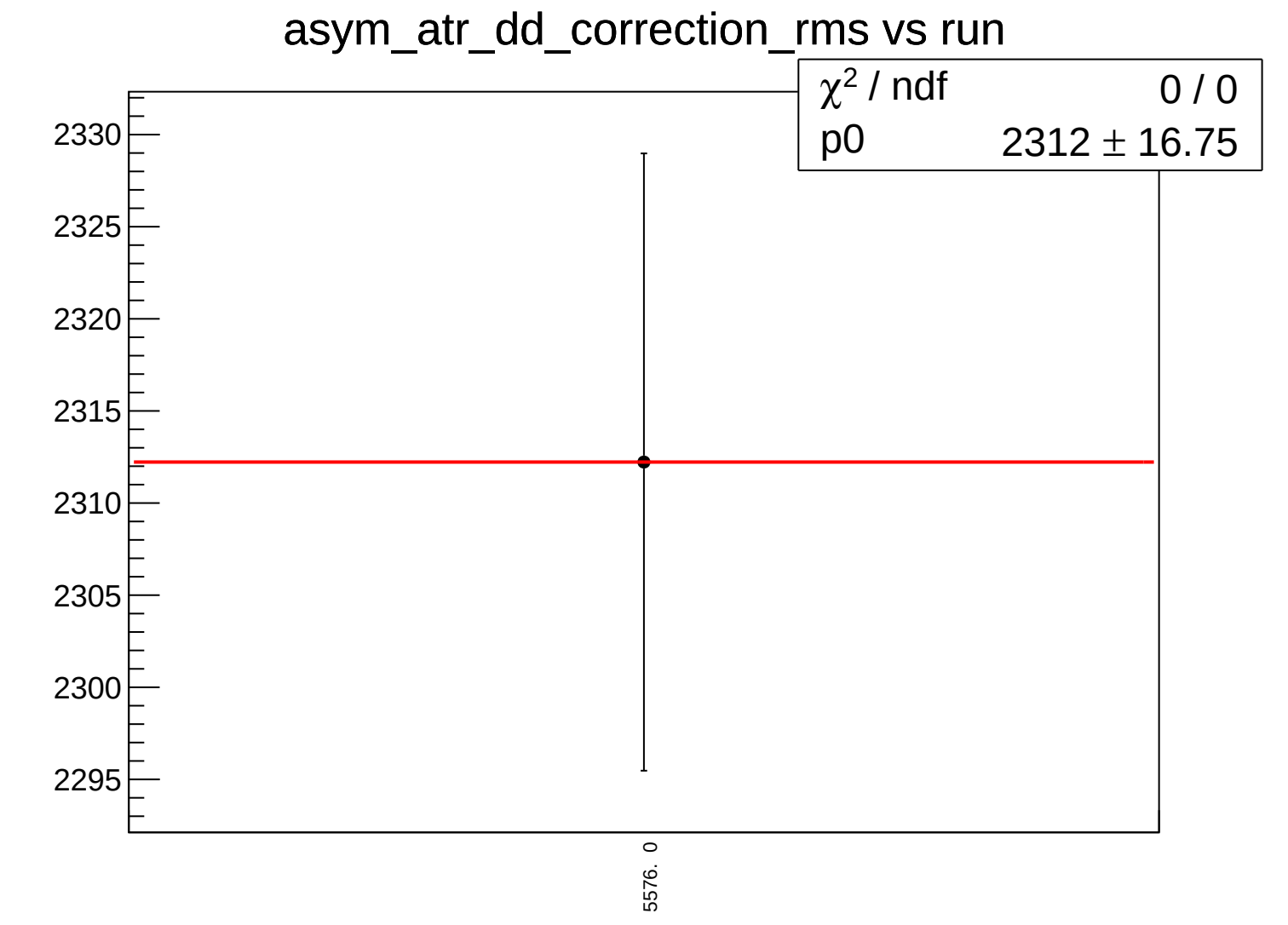
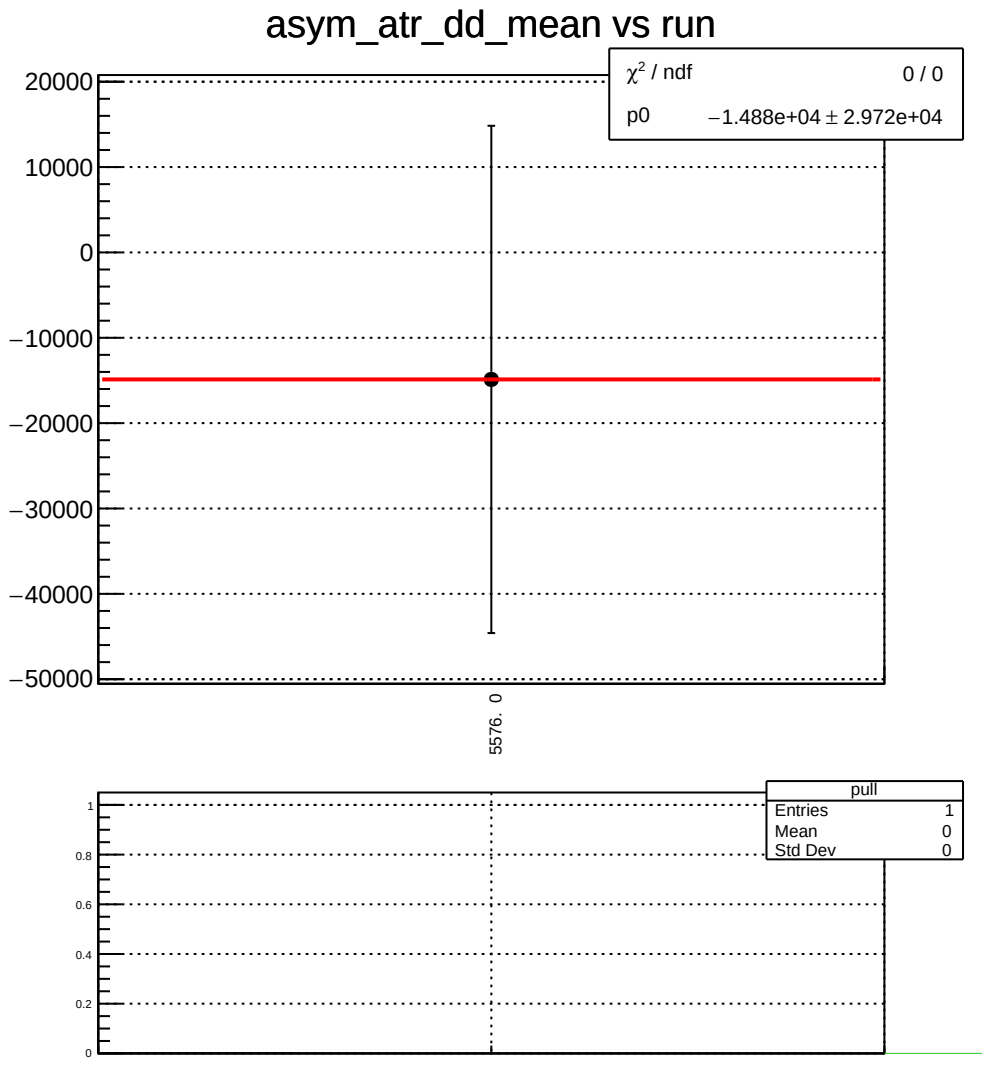
0
2
4
6
8

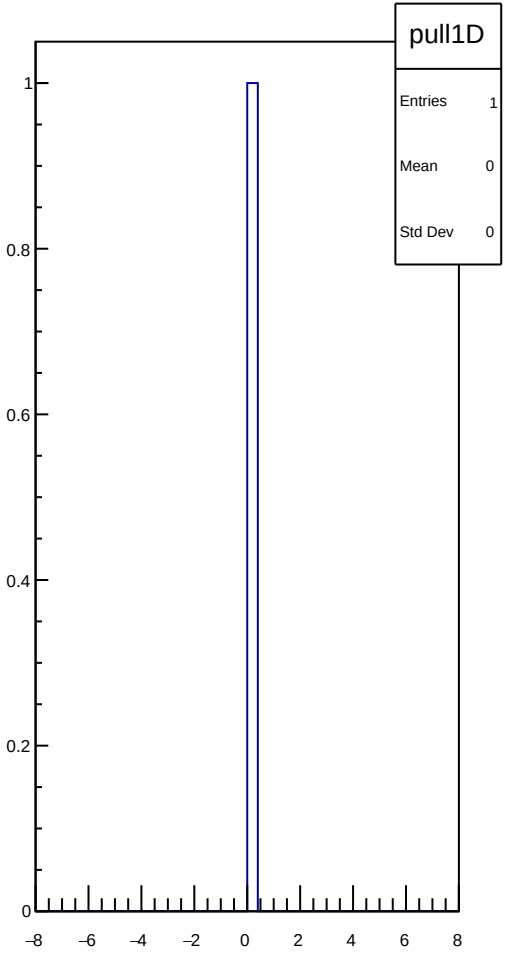

reg_asym_atr_dd_rms vs run
χ² / ndf 3.214e–28 / 0
p0 1751 ± 12.68
1765
1760
1755
1750
1745
1740
5576. 0

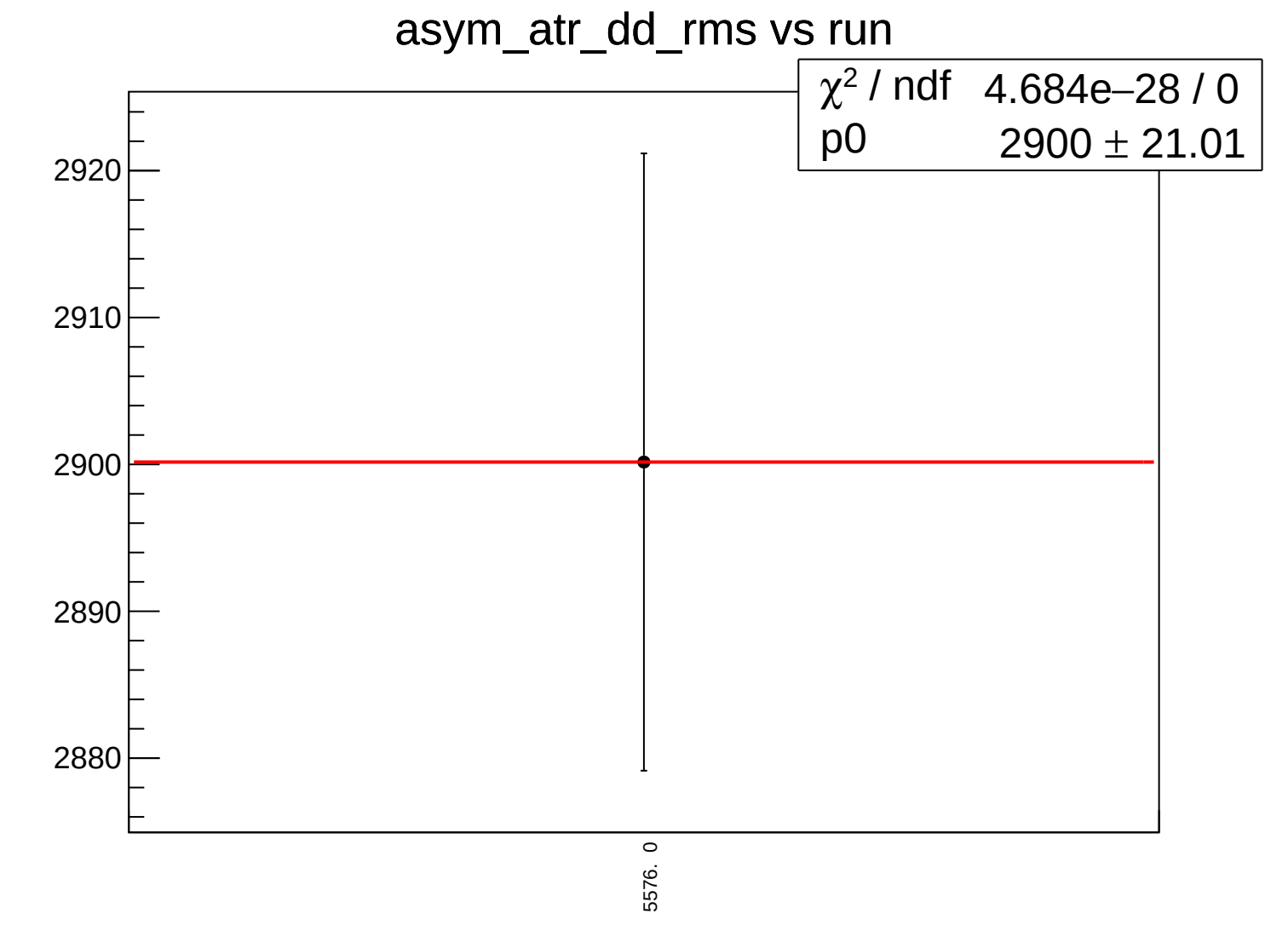

asym_atr_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1.06e+04 ± 2.369e+04
30000
20000
10000
0
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

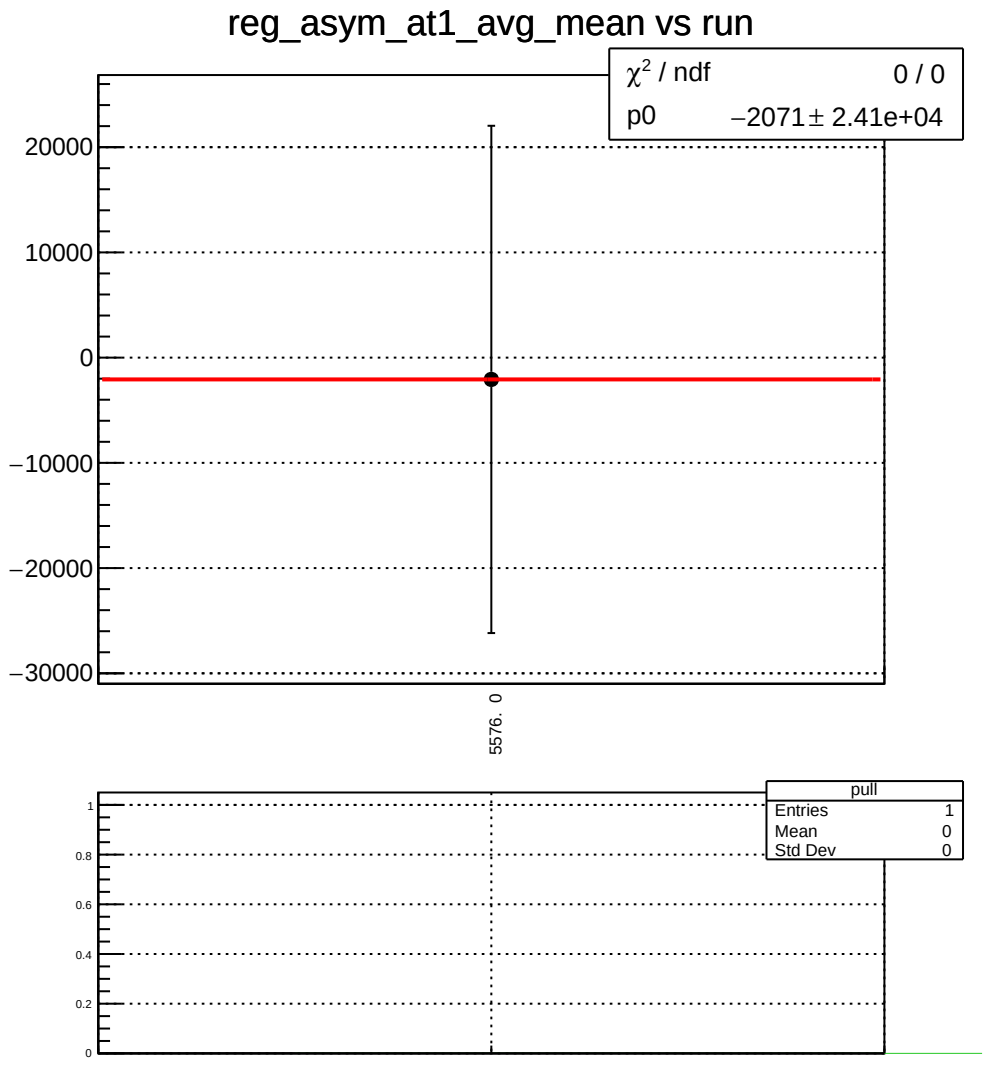

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

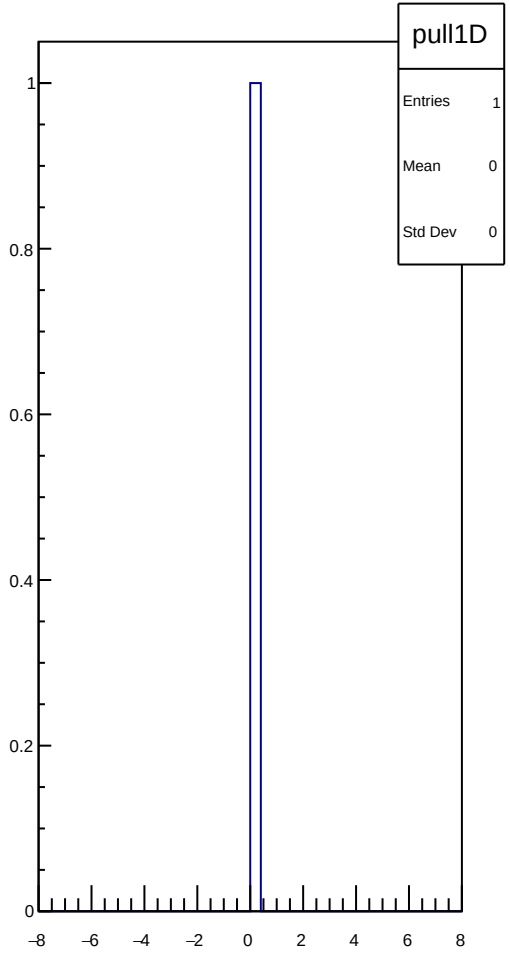

asym_atr_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 2312 ± 16.75
2330
2325
2320
2315
2310
2305
2300
2295
5576. 0

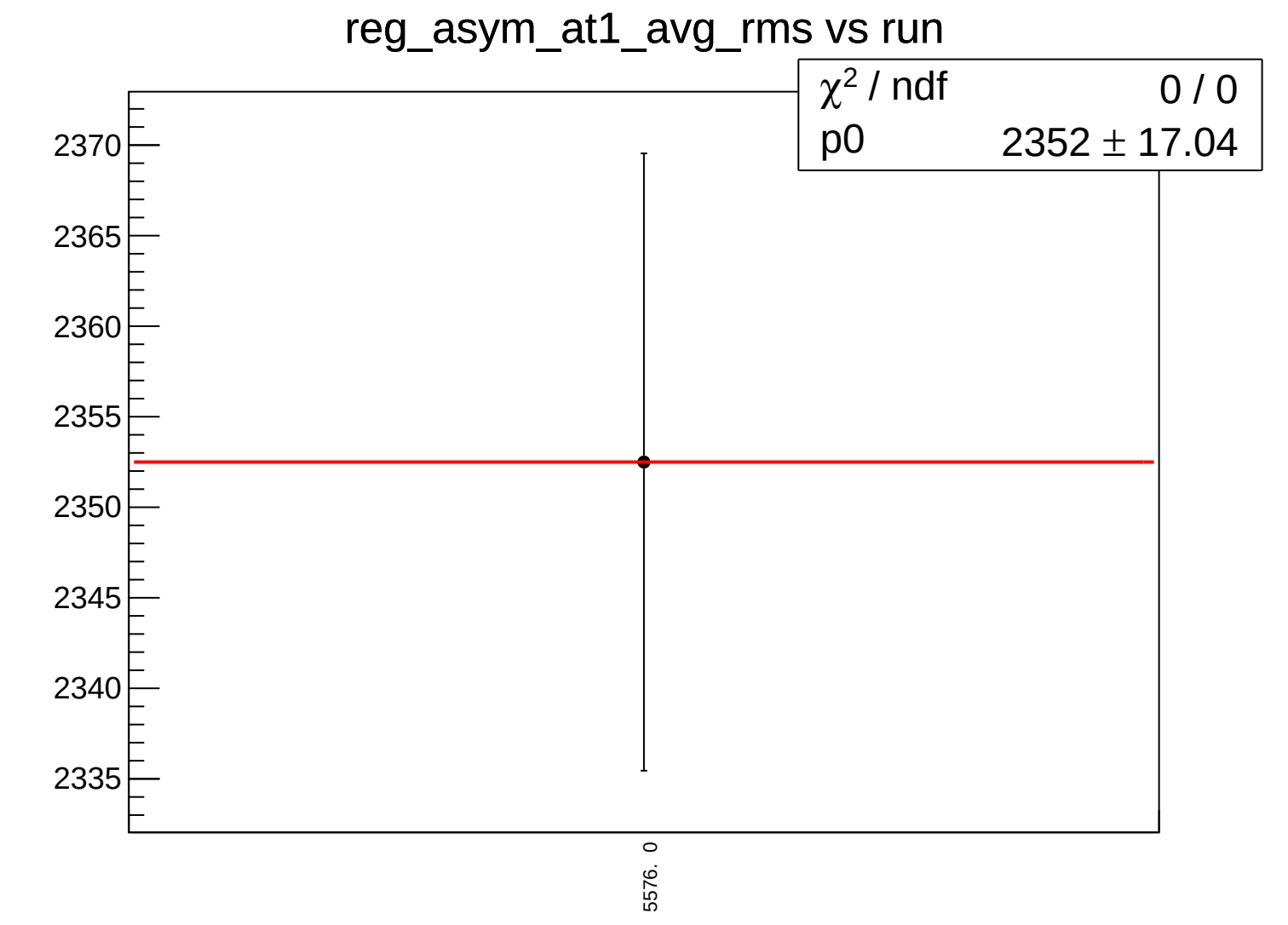

asym_atr_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.488e+04 ± 2.972e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

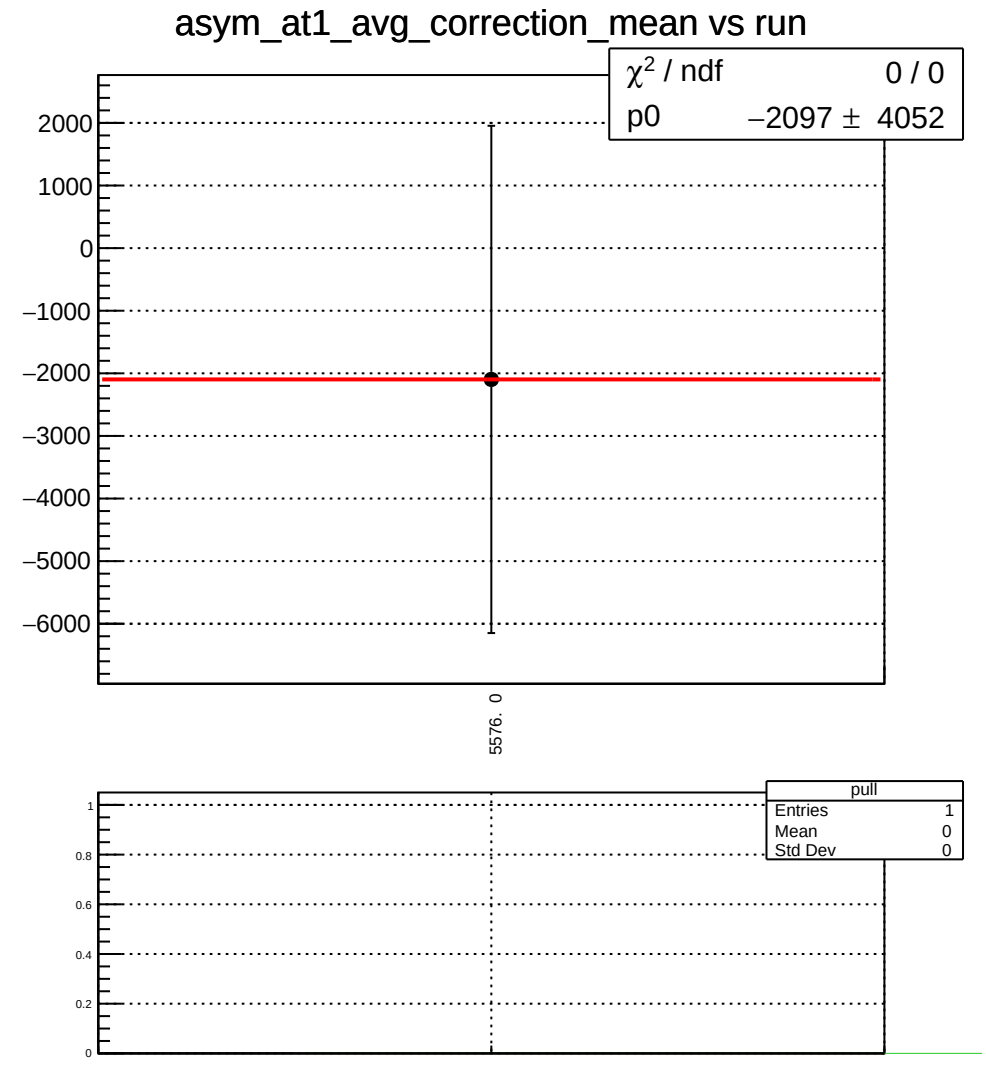

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

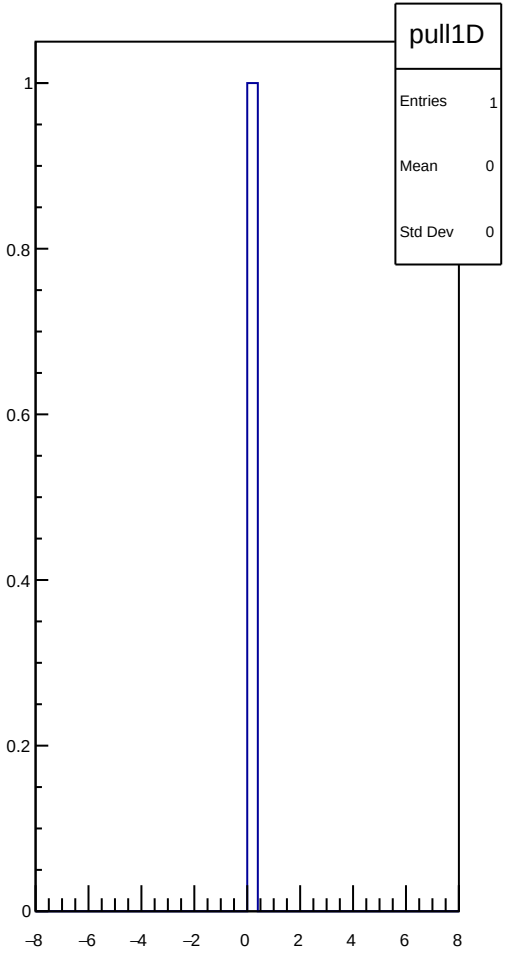

asym_atr_dd_rms vs run
χ² / ndf 4.684e–28 / 0
p0 2900 ± 21.01
2920
2910
2900
2890
2880
5576. 0

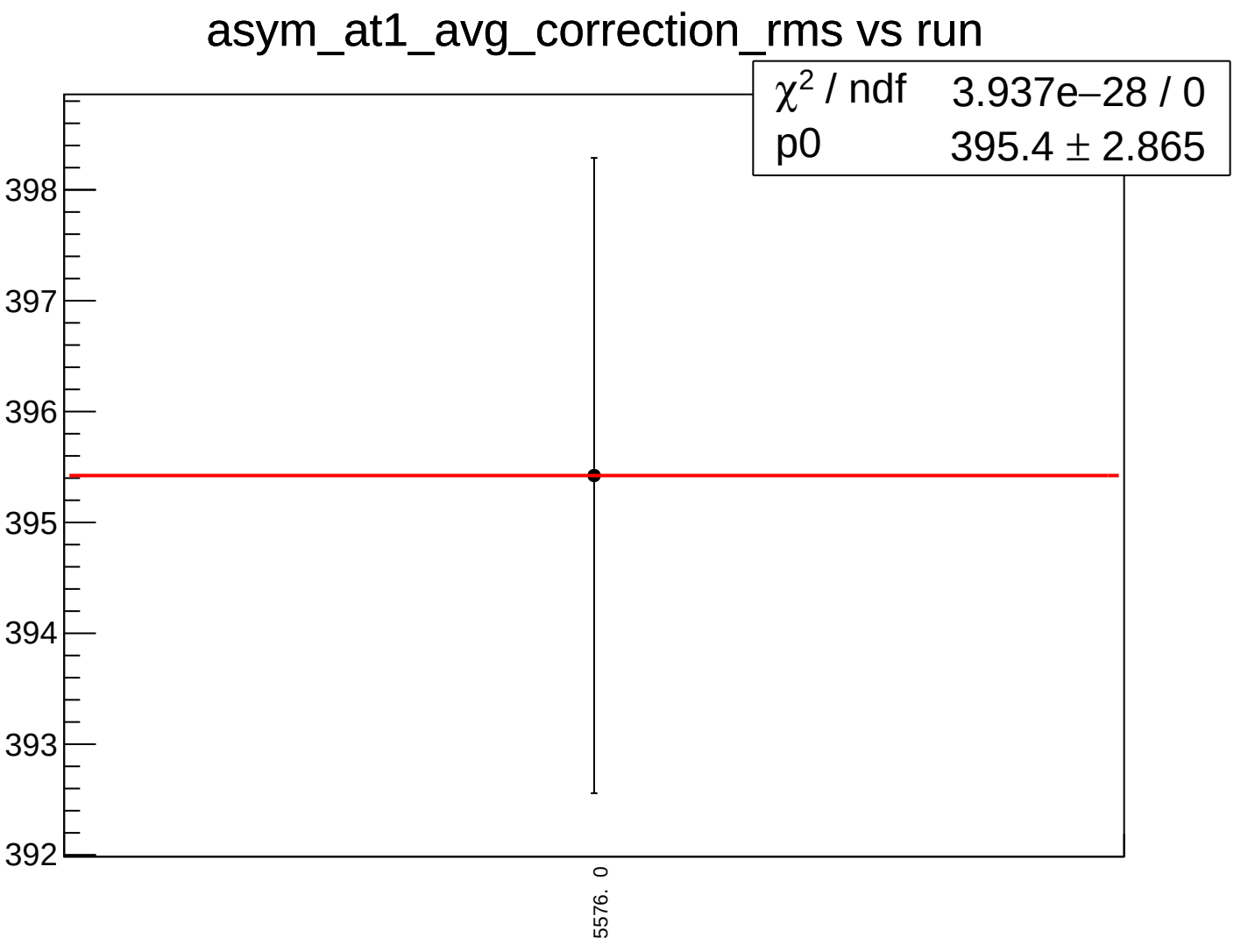

reg_asym_at1_avg_mean vs run
χ² / ndf 0 / 0
p0 −2071 ± 2.41e+04
20000
10000
0
−10000
−20000
−30000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

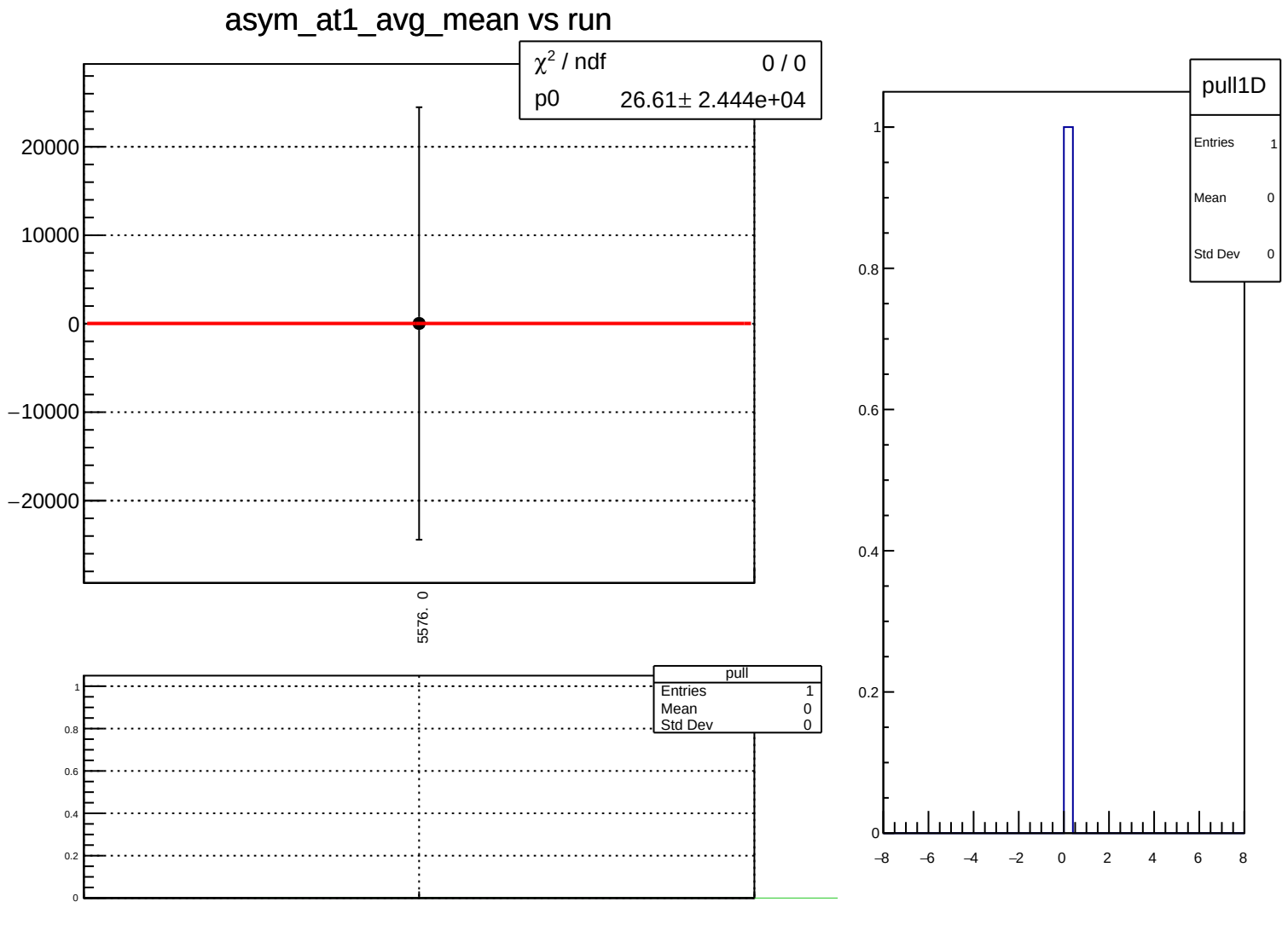

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

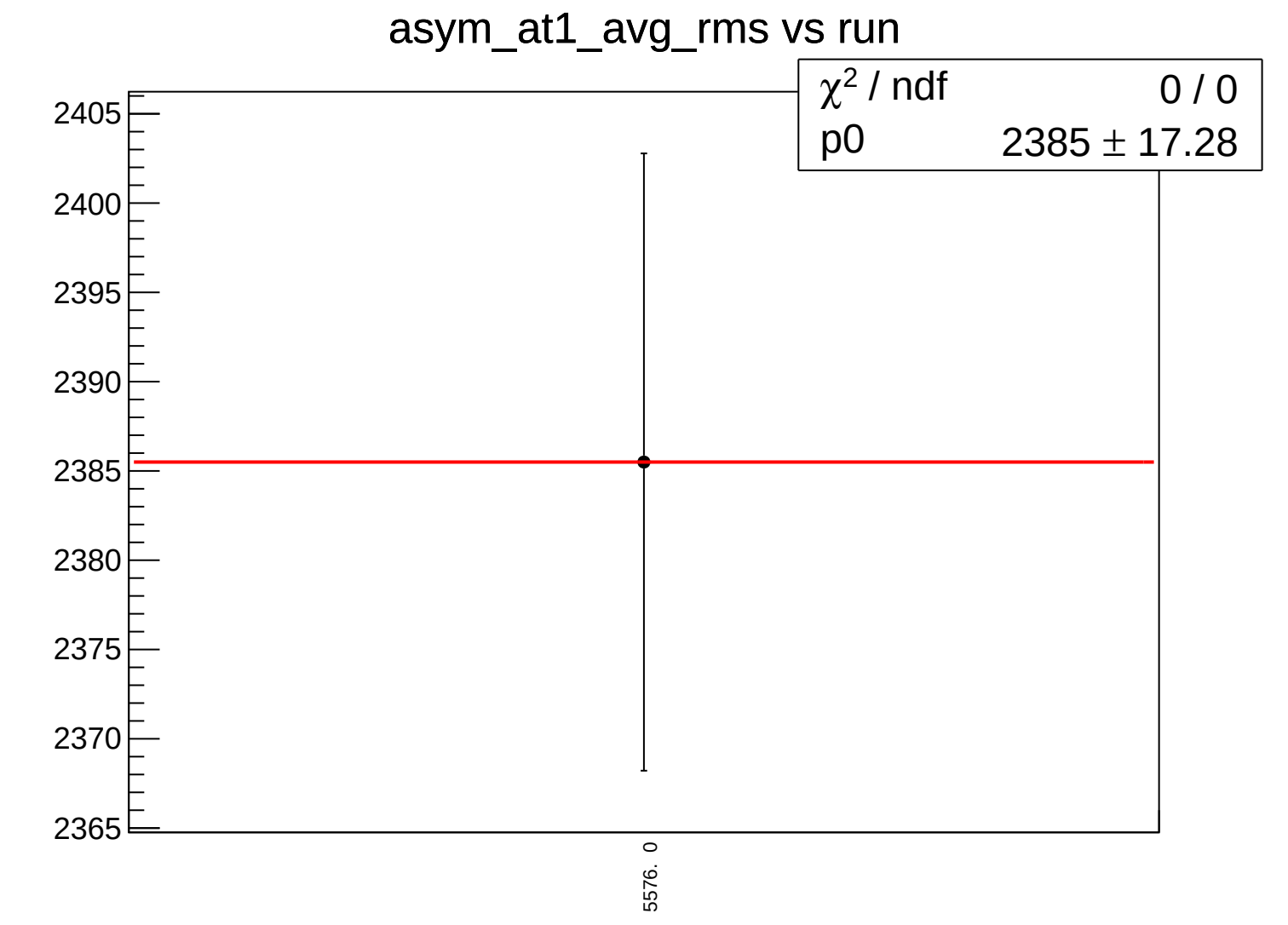

reg_asym_at1_avg_rms vs run
χ² / ndf 0 / 0
p0 2352 ± 17.04
2370
2365
2360
2355
2350
2345
2340
2335
5576. 0

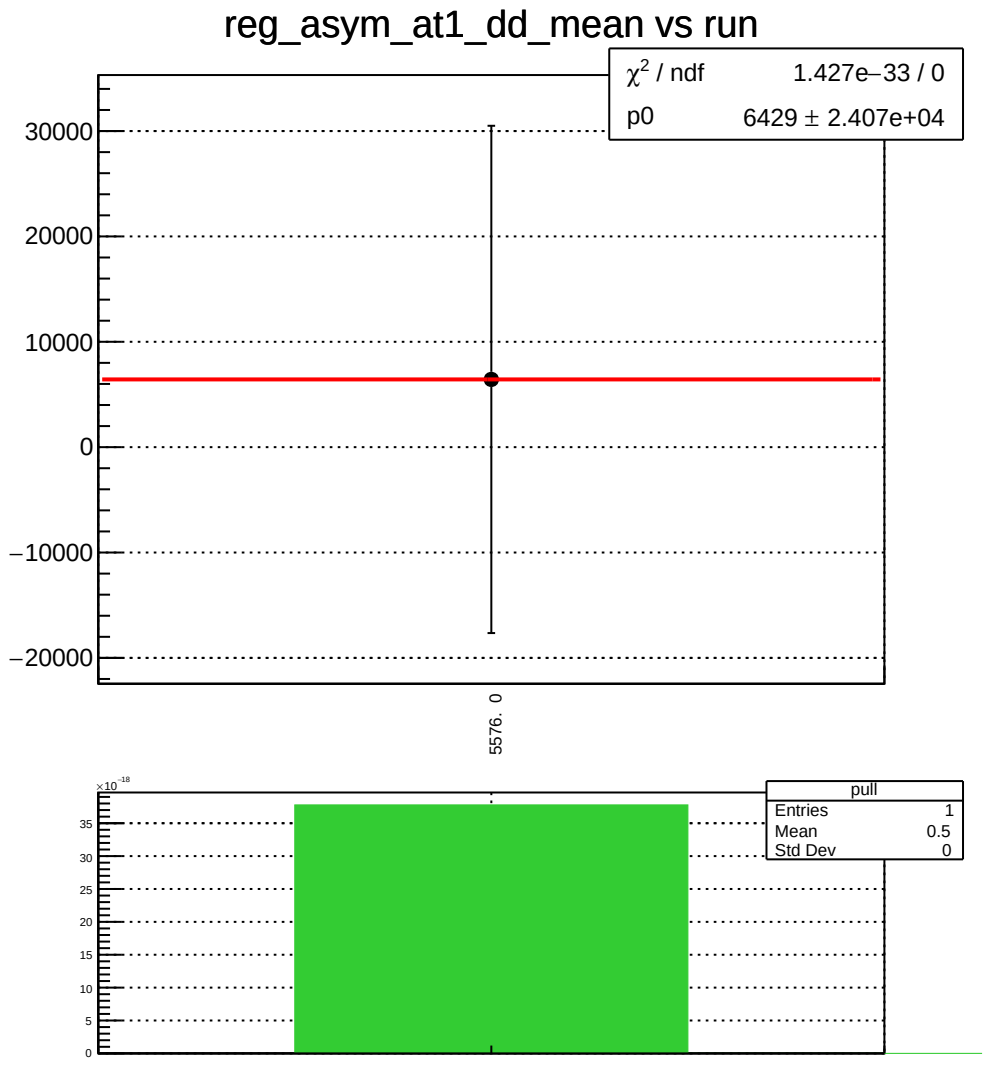

asym_at1_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −2097 ± 4052
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

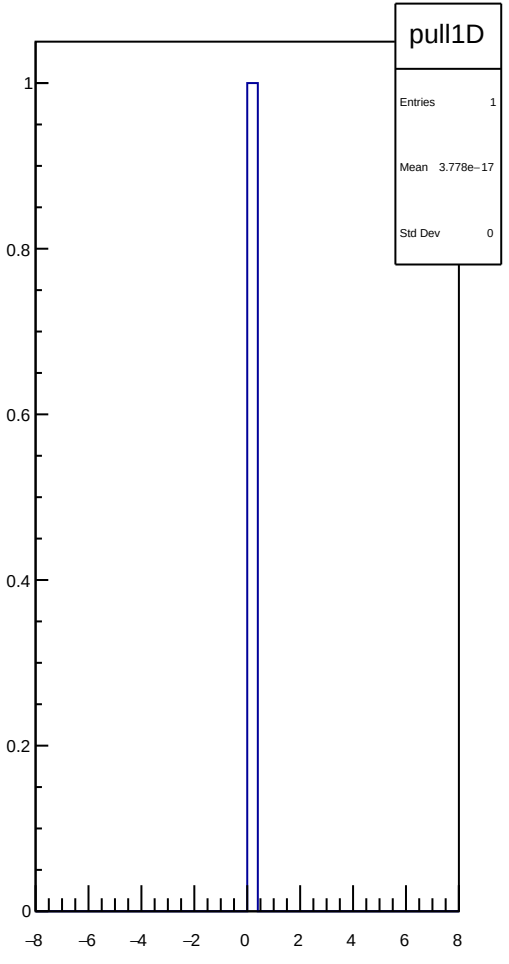

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

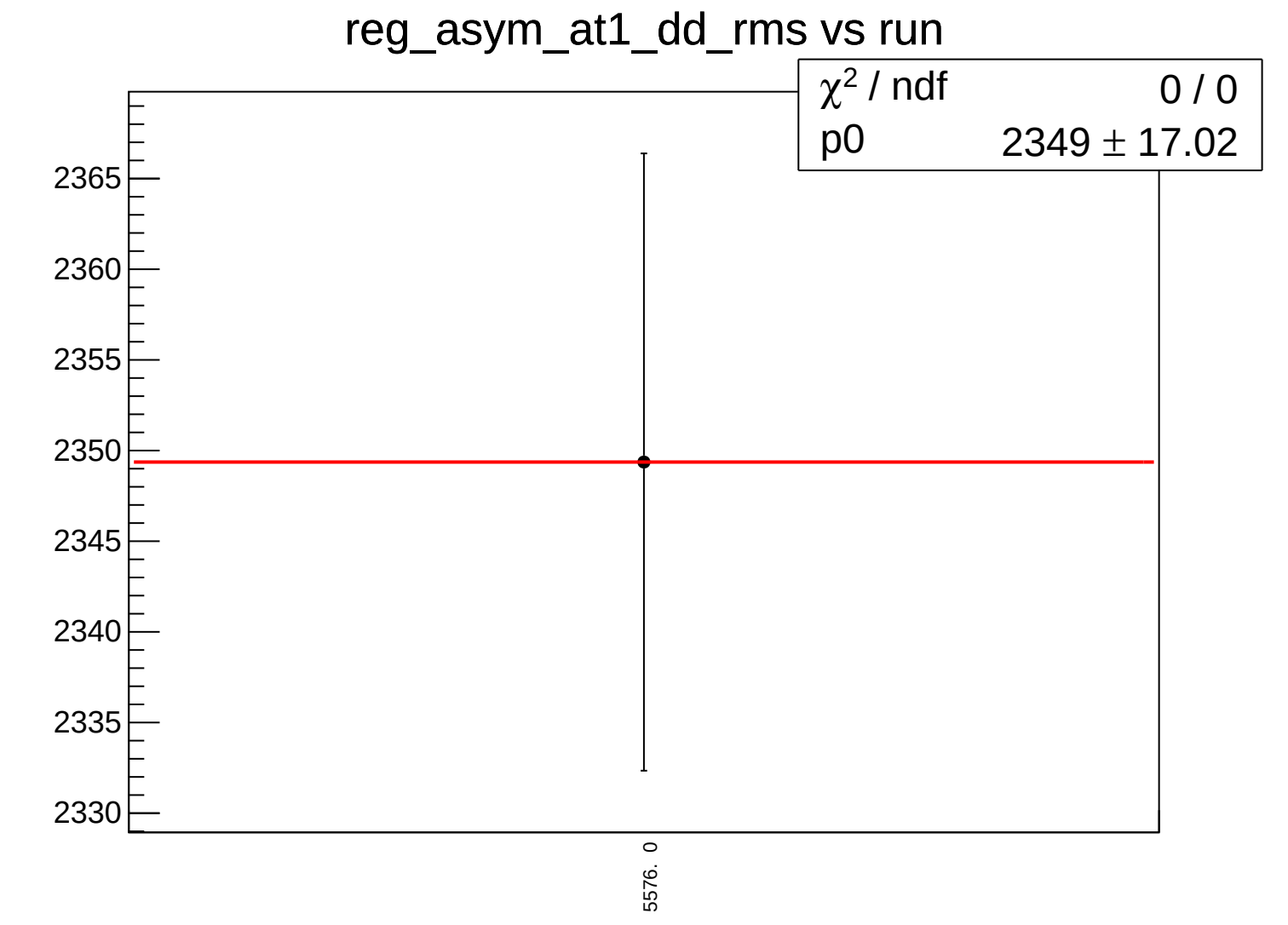

asym_at1_avg_correction_rms vs run
χ² / ndf 3.937e−28 / 0
p0 395.4 ± 2.865
398
397
396
395
394
393
392
5576. 0

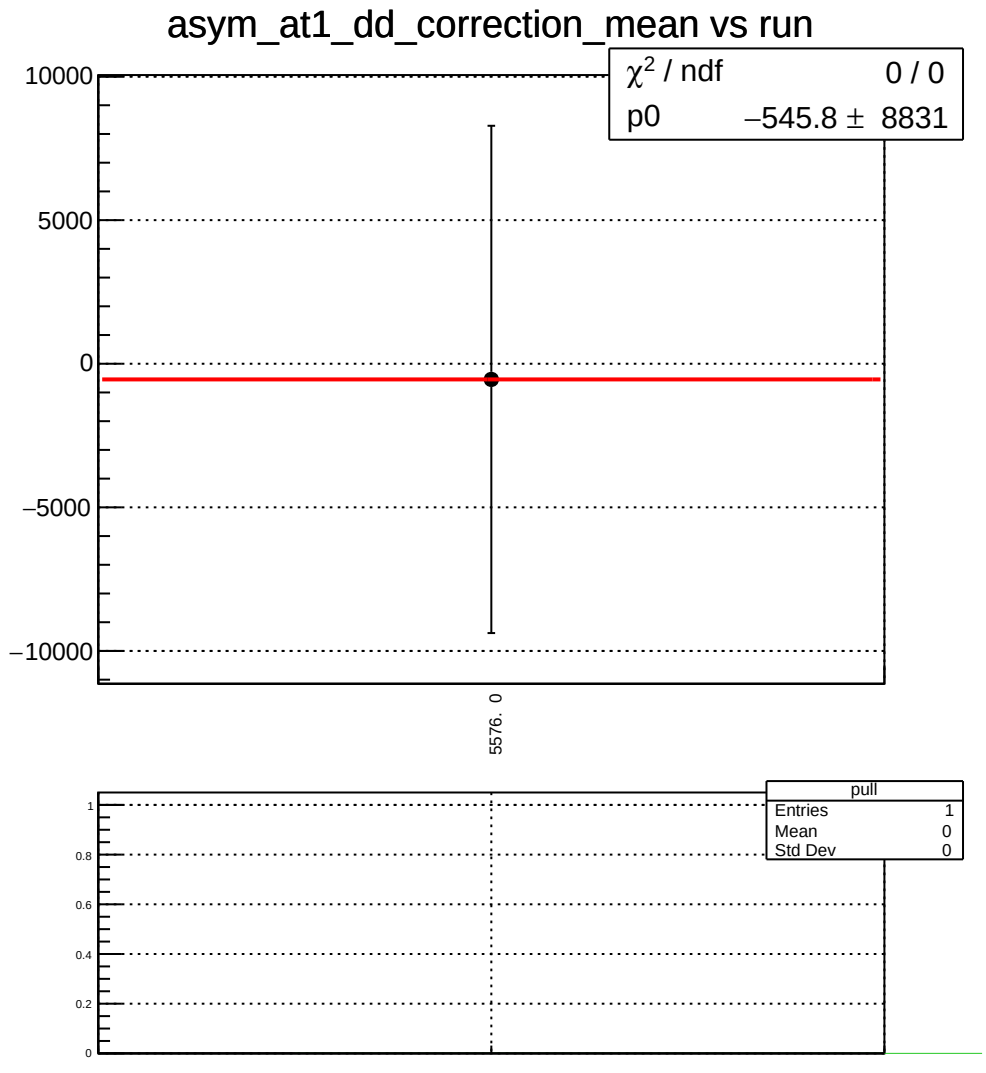

asym_at1_avg_mean vs run
χ² / ndf 0 / 0
p0 26.61± 2.444e+04
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

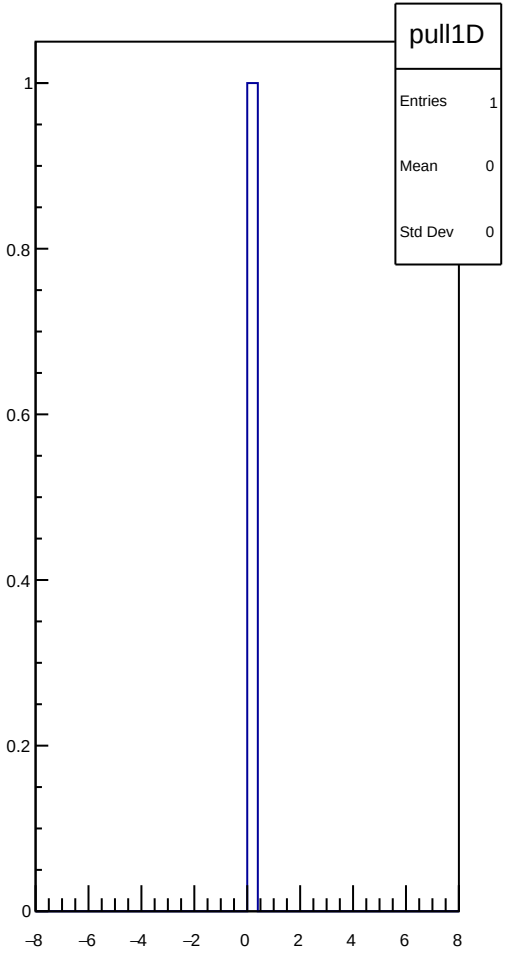

asym_at1_avg_rms vs run
χ² / ndf 0 / 0
p0 2385 ± 17.28
2405
2400
2395
2390
2385
2380
2375
2370
2365
5576. 0

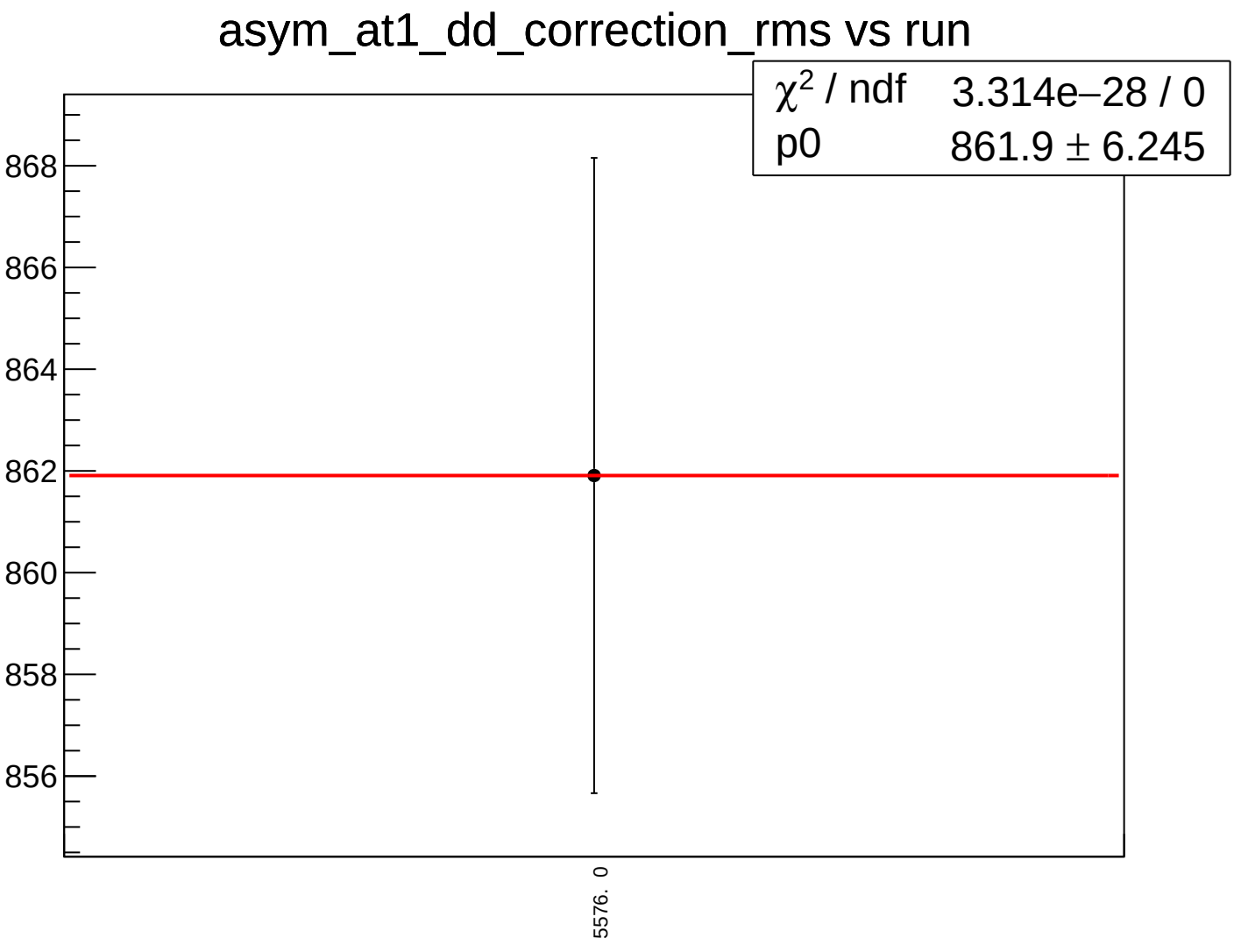

reg_asym_at1_dd_mean vs run
χ² / ndf 1.427e−33 / 0
p0 6429 ± 2.407e+04
30000
20000
10000
0
−10000
−20000
5576. 0
×10⁻¹⁸
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

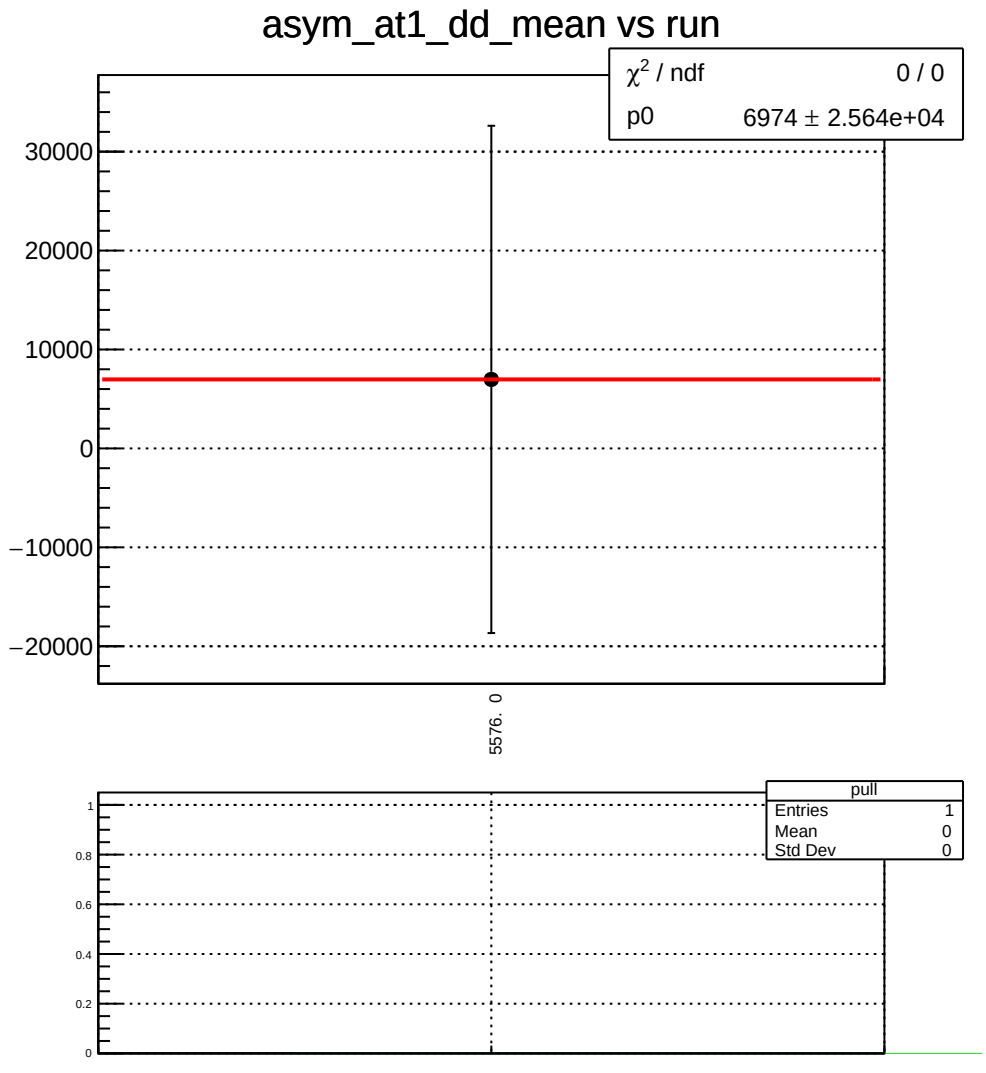

pull1D
Entries 1
Mean 3.778e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

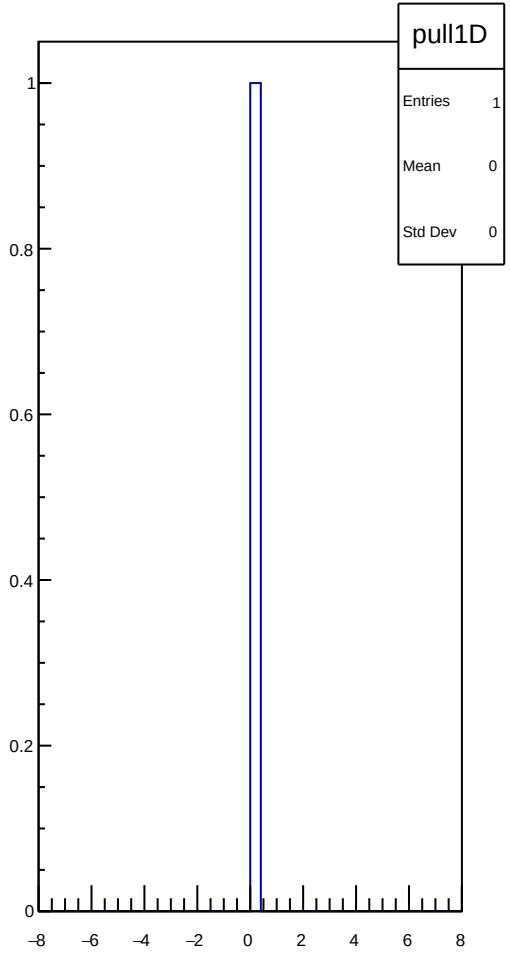

reg_asym_at1_dd_rms vs run
χ² / ndf 0 / 0
p0 2349 ± 17.02
2365
2360
2355
2350
2345
2340
2335
2330
5576. 0

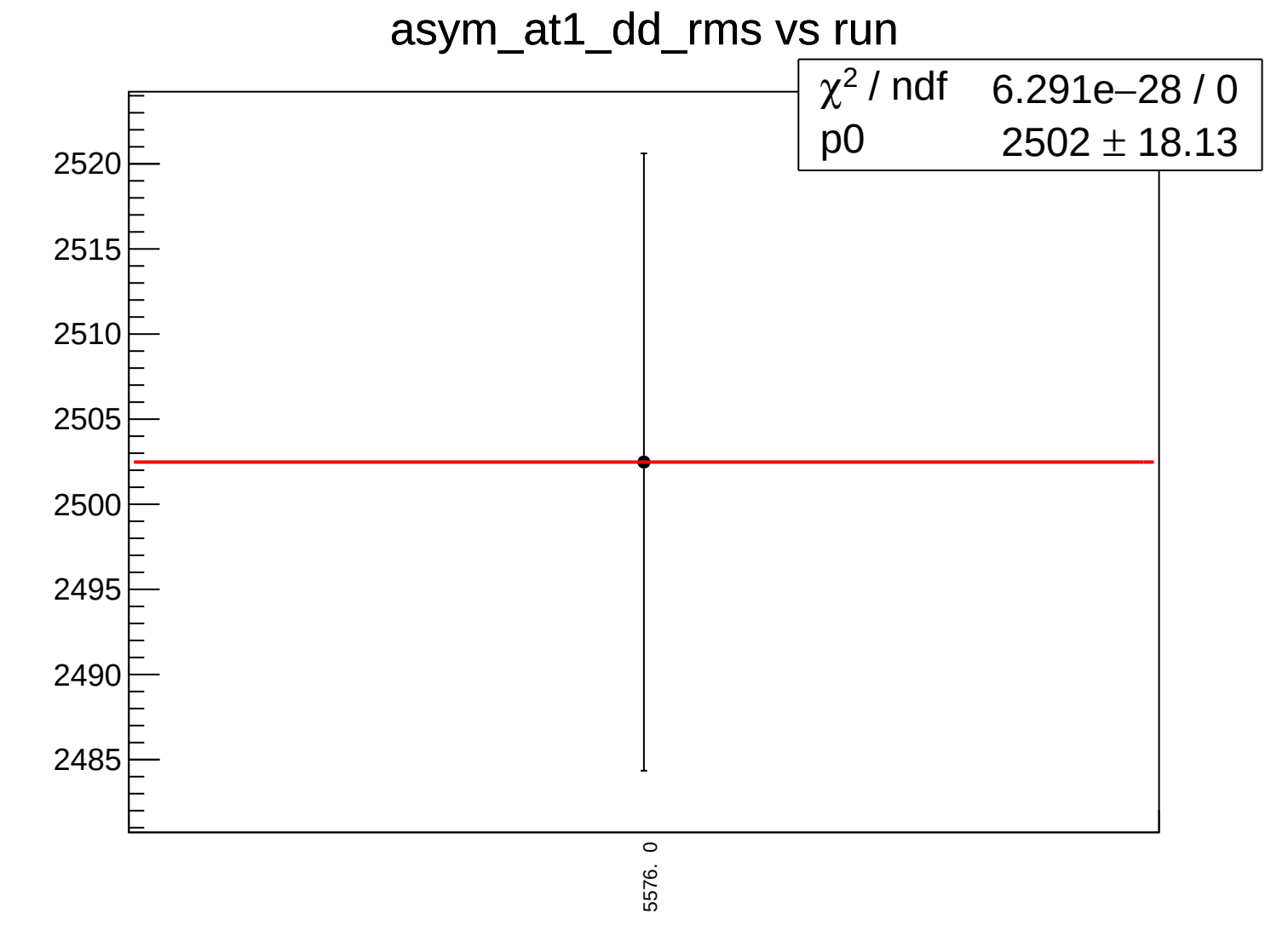

asym_at1_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −545.8 ± 8831
10000
5000
0
−5000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

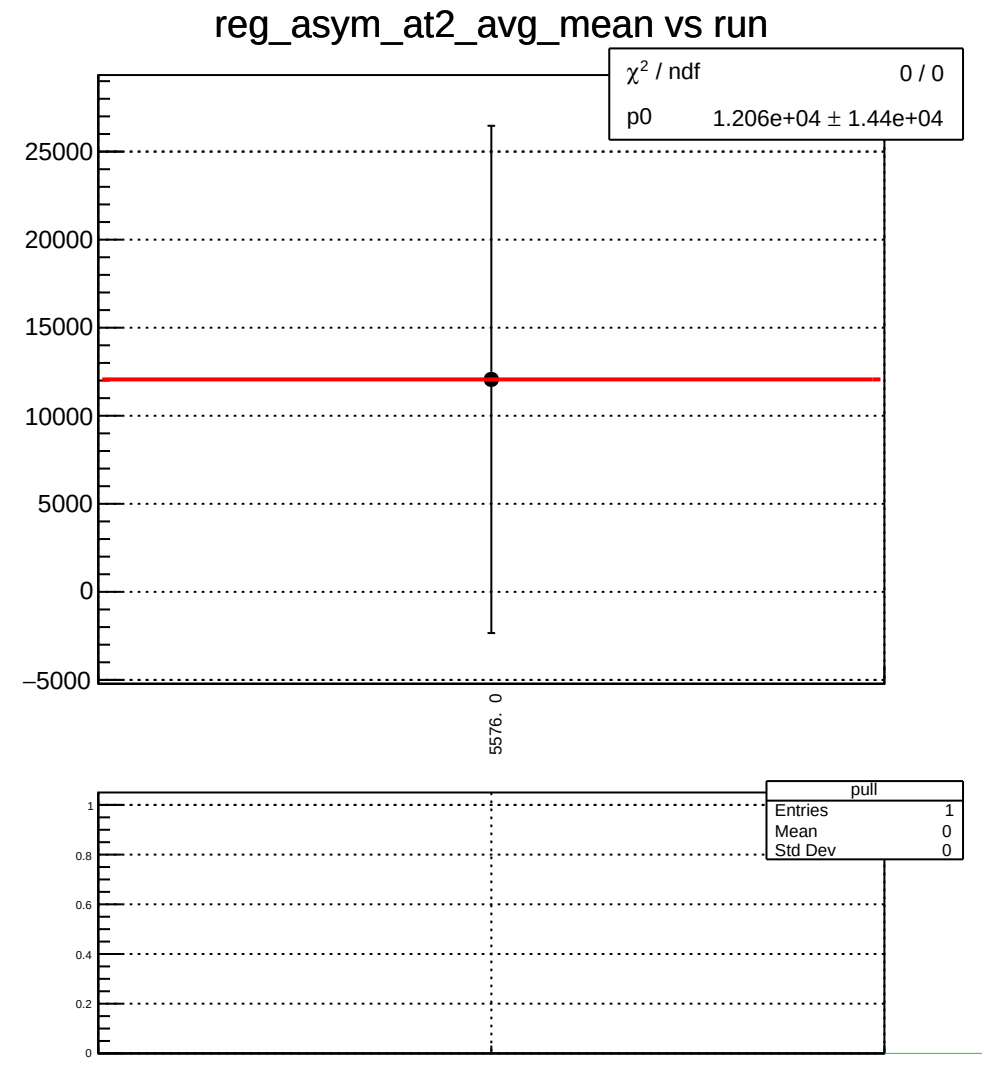

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

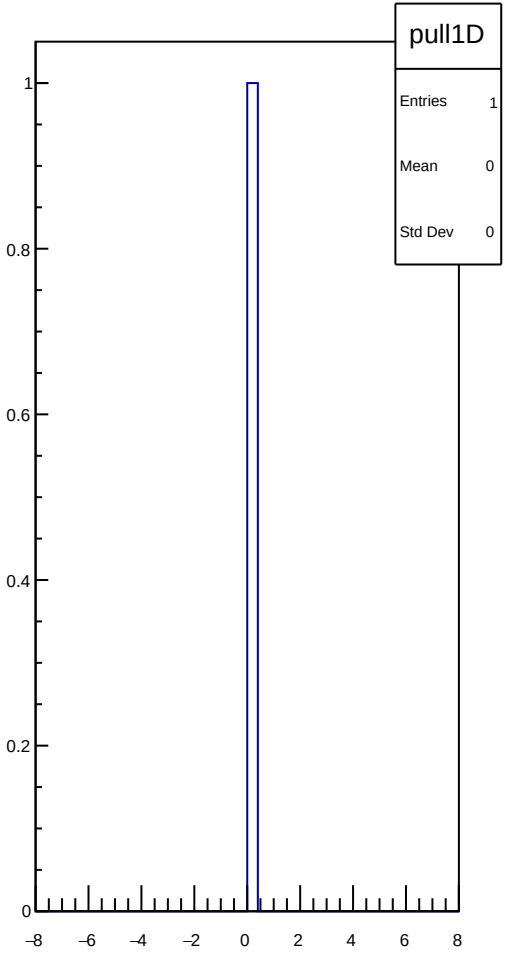

asym_at1_dd_correction_rms vs run
χ² / ndf 3.314e−28 / 0
p0 861.9 ± 6.245
868
866
864
862
860
858
856
5576. 0

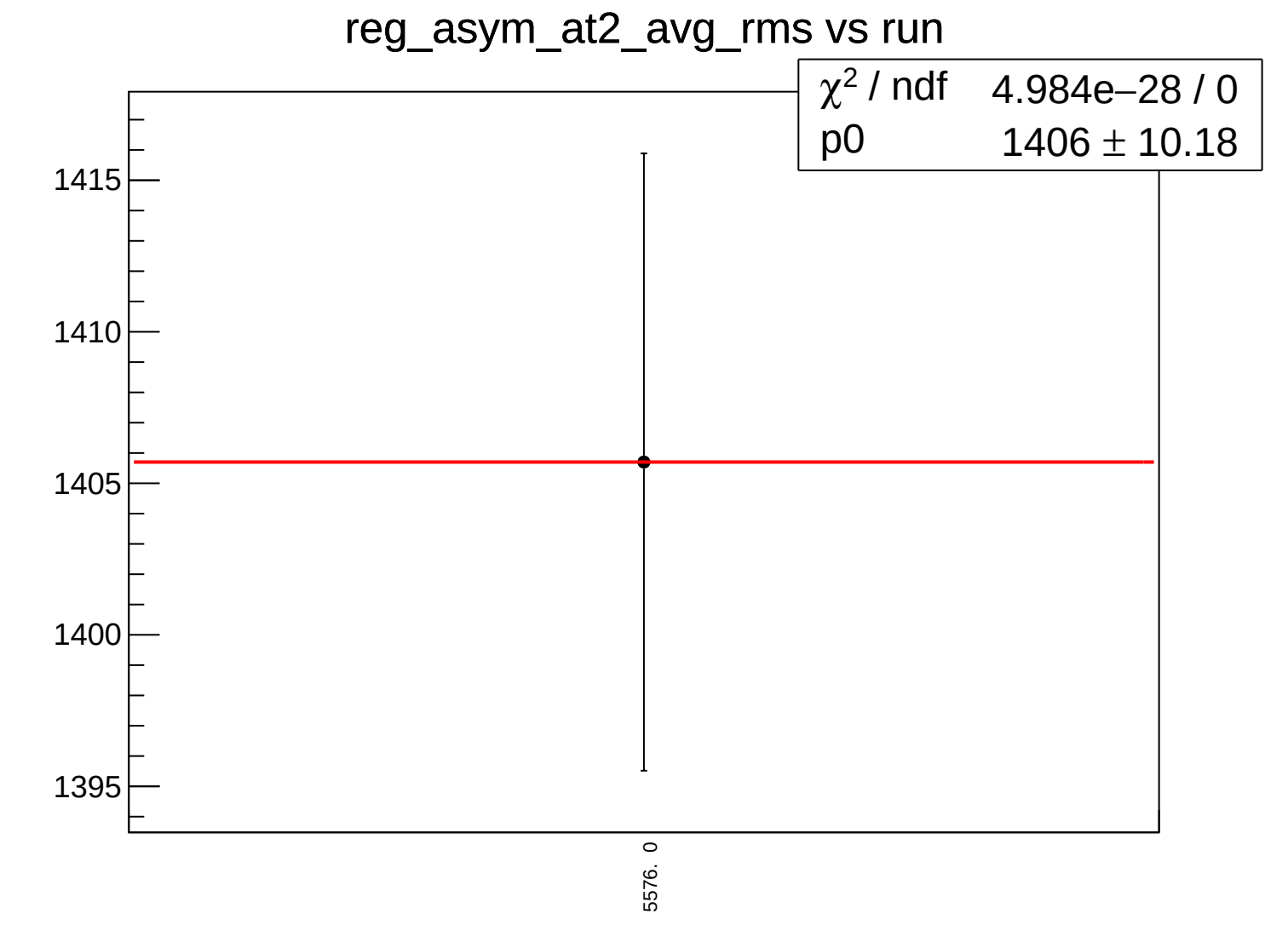

asym_at1_dd_mean vs run
χ² / ndf 0 / 0
p0 6974 ± 2.564e+04
30000
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

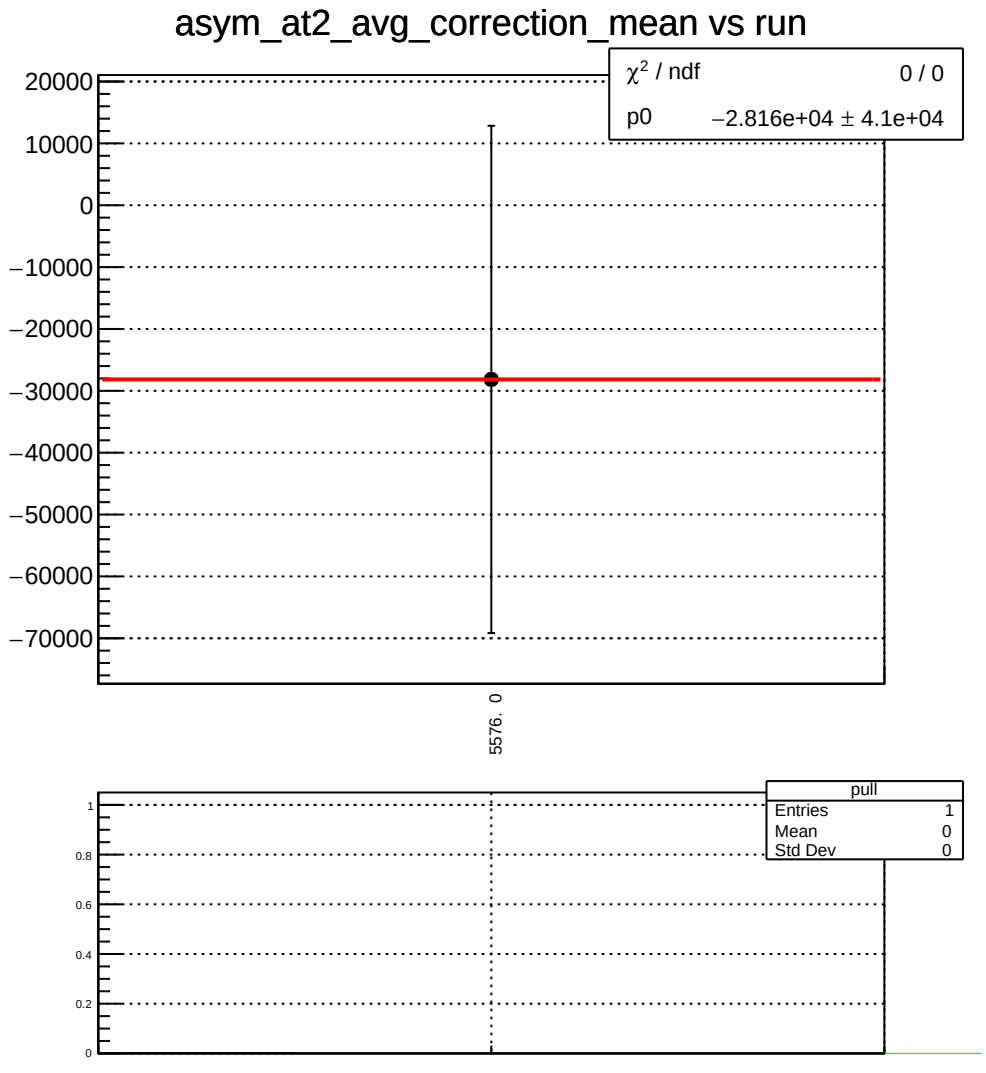

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

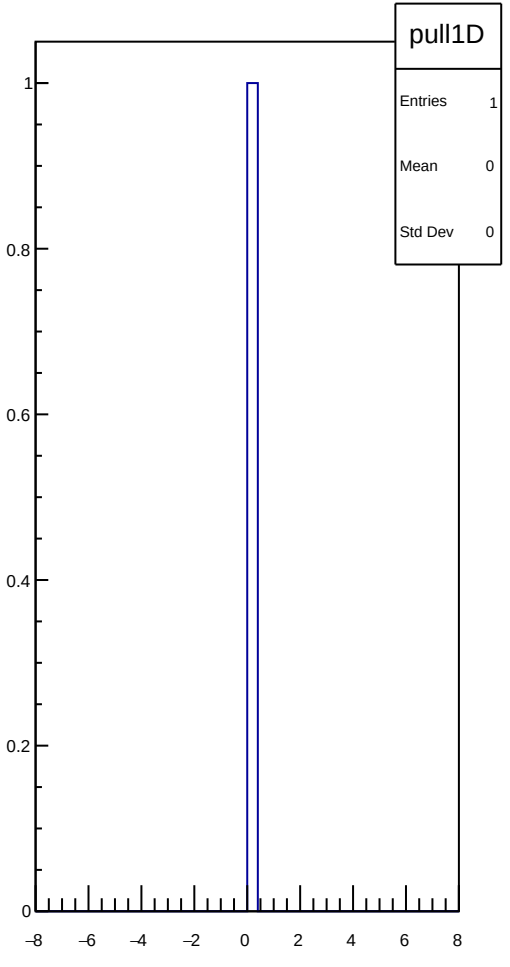

asym_at1_dd_rms vs run
χ² / ndf 6.291e−28 / 0
p0 2502 ± 18.13
2520
2515
2510
2505
2500
2495
2490
2485
5576. 0

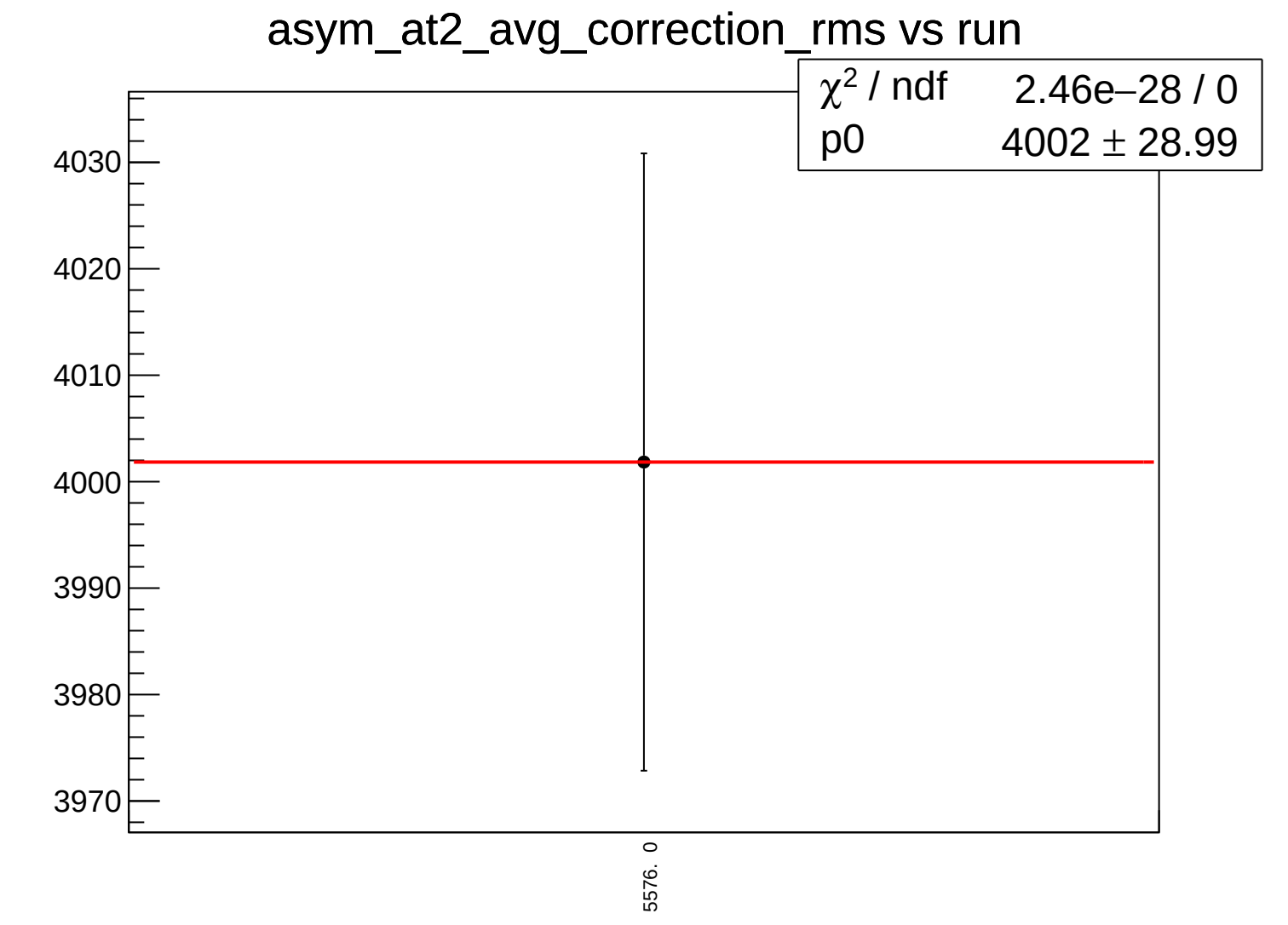

reg_asym_at2_avg_mean vs run
χ² / ndf 0 / 0
p0 1.206e+04 ± 1.44e+04
25000
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

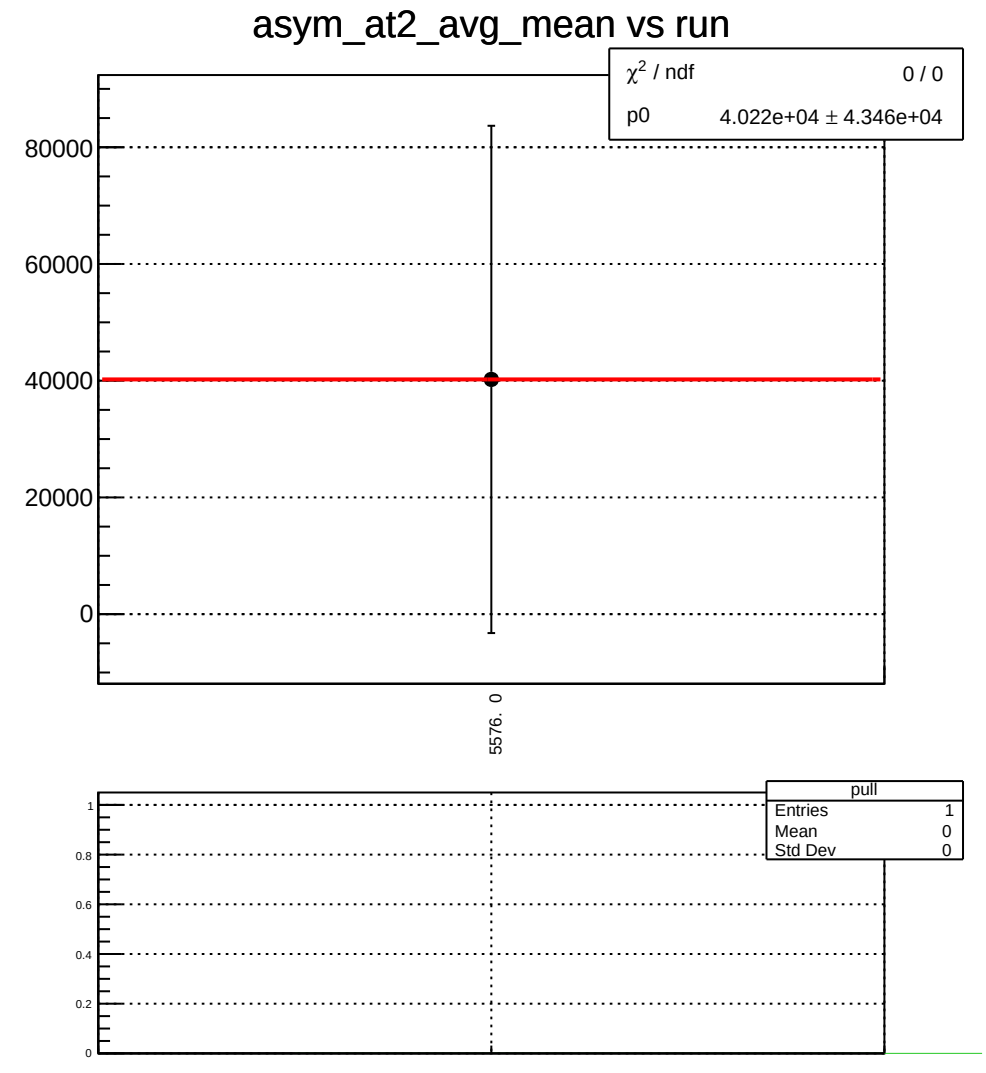

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

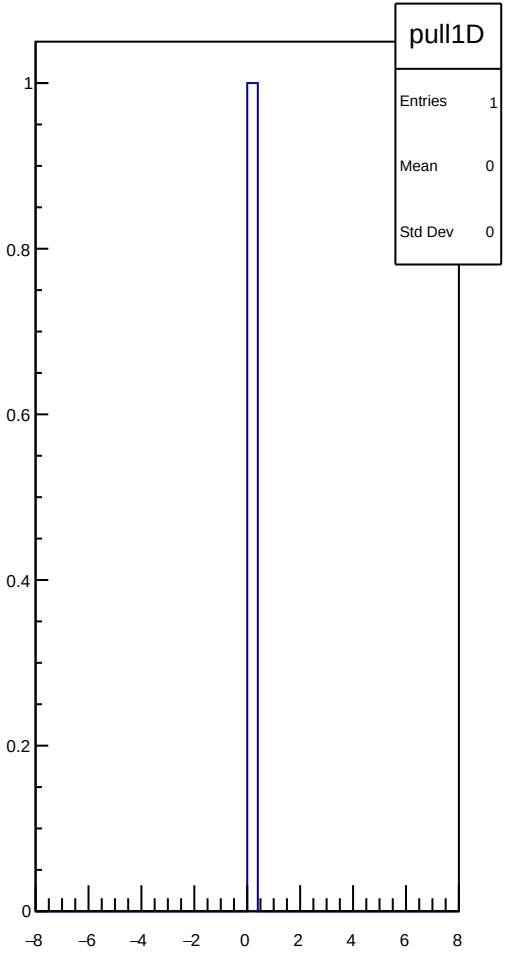

reg_asym_at2_avg_rms vs run
χ² / ndf 4.984e−28 / 0
p0 1406 ± 10.18
1415
1410
1405
1400
1395
5576. 0

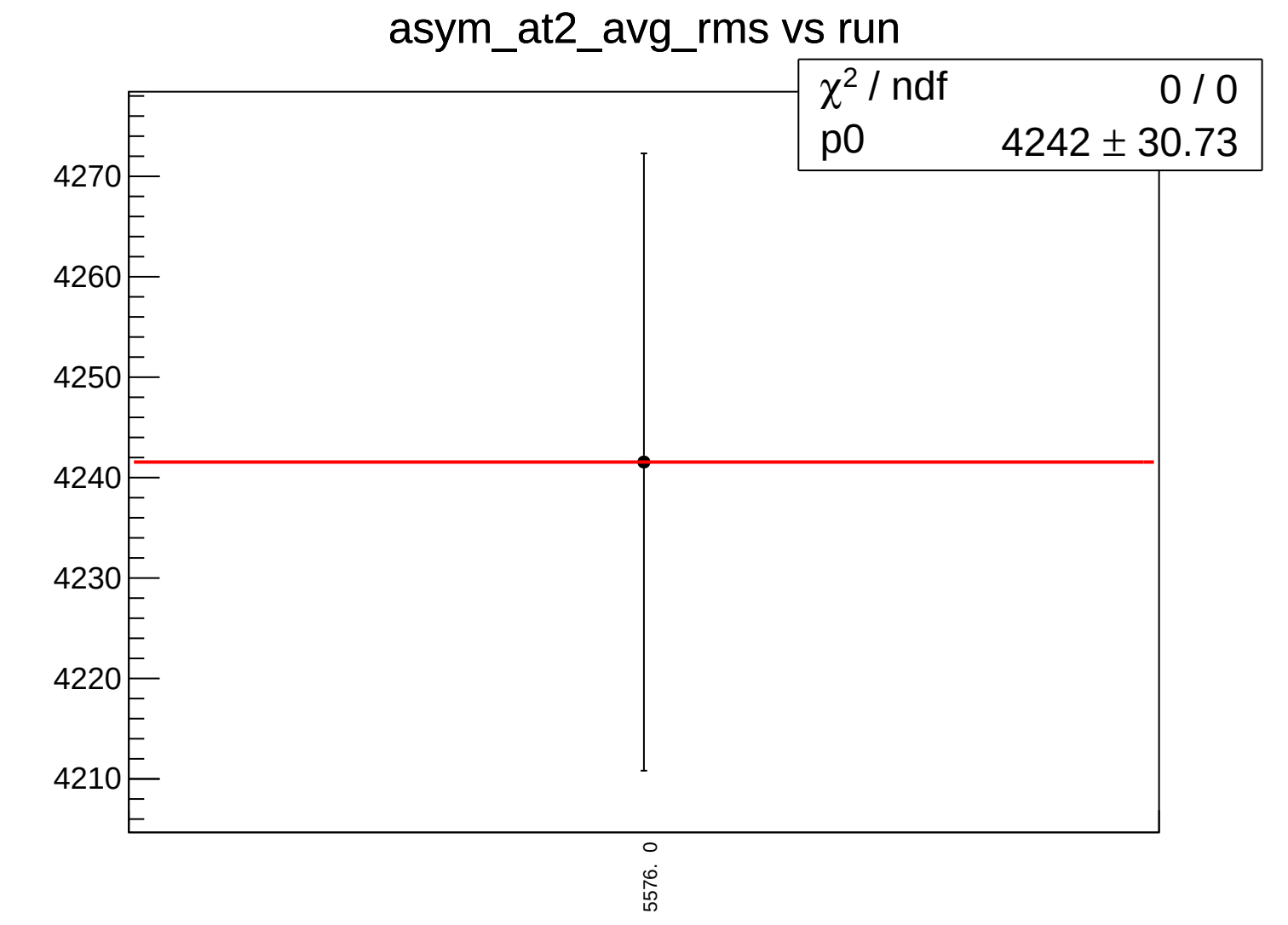

asym_at2_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −2.816e+04 ± 4.1e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
−70000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

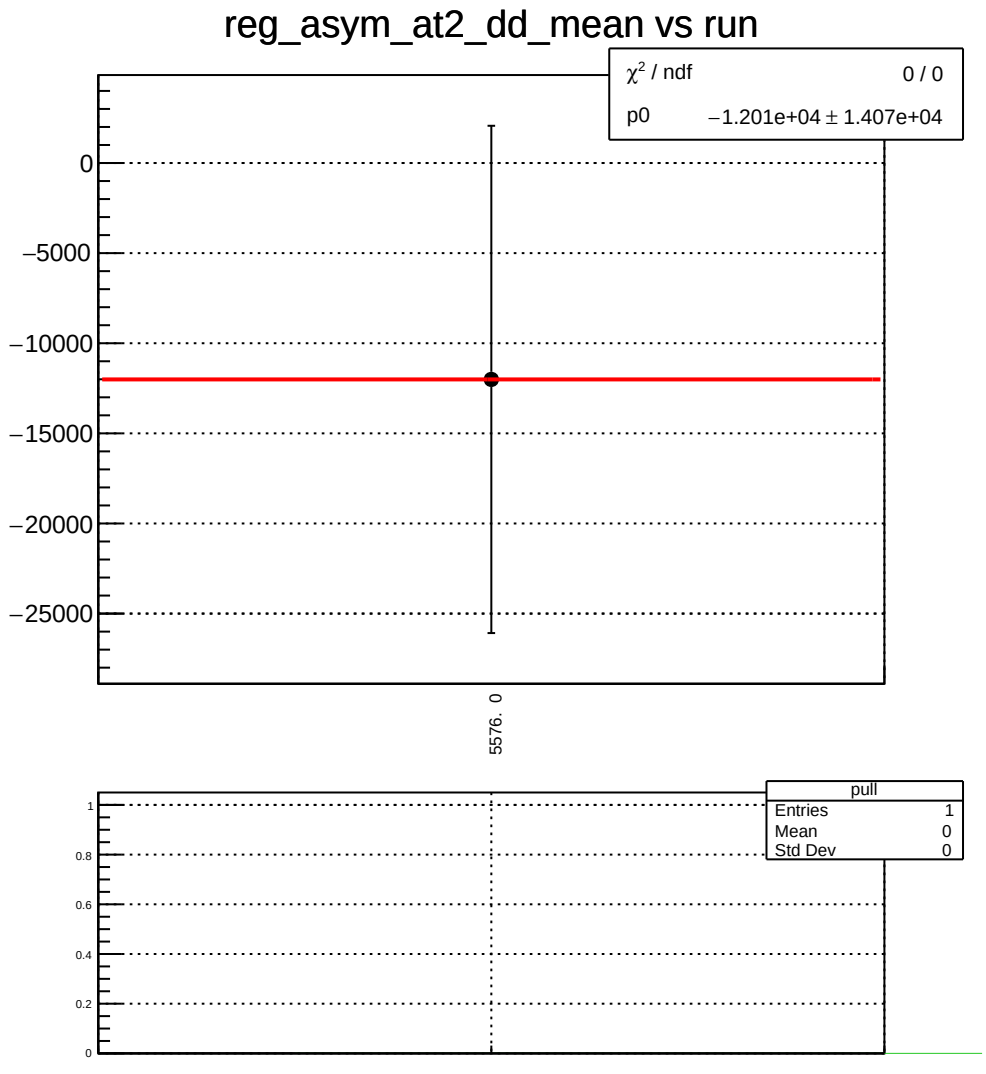

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

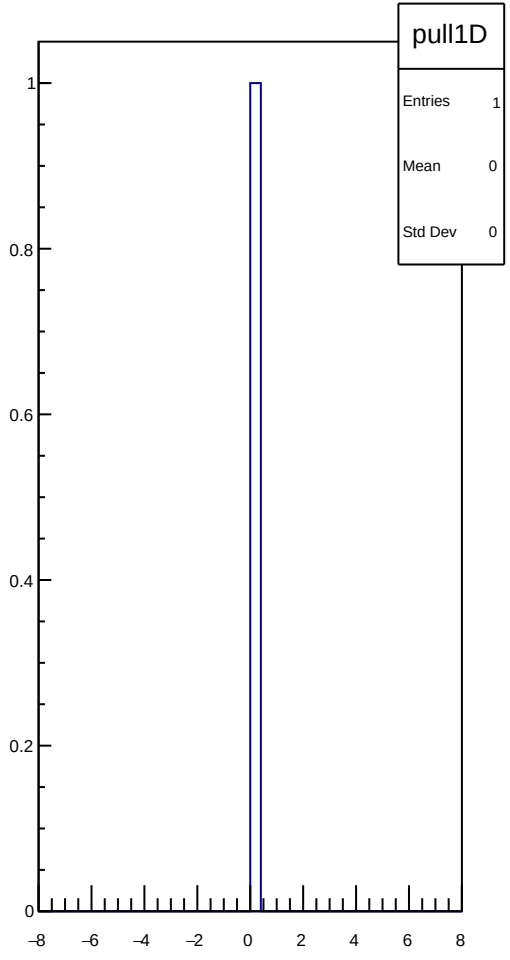

asym_at2_avg_correction_rms vs run
χ² / ndf 2.46e−28 / 0
p0 4002 ± 28.99
4030
4020
4010
4000
3990
3980
3970
5576. 0

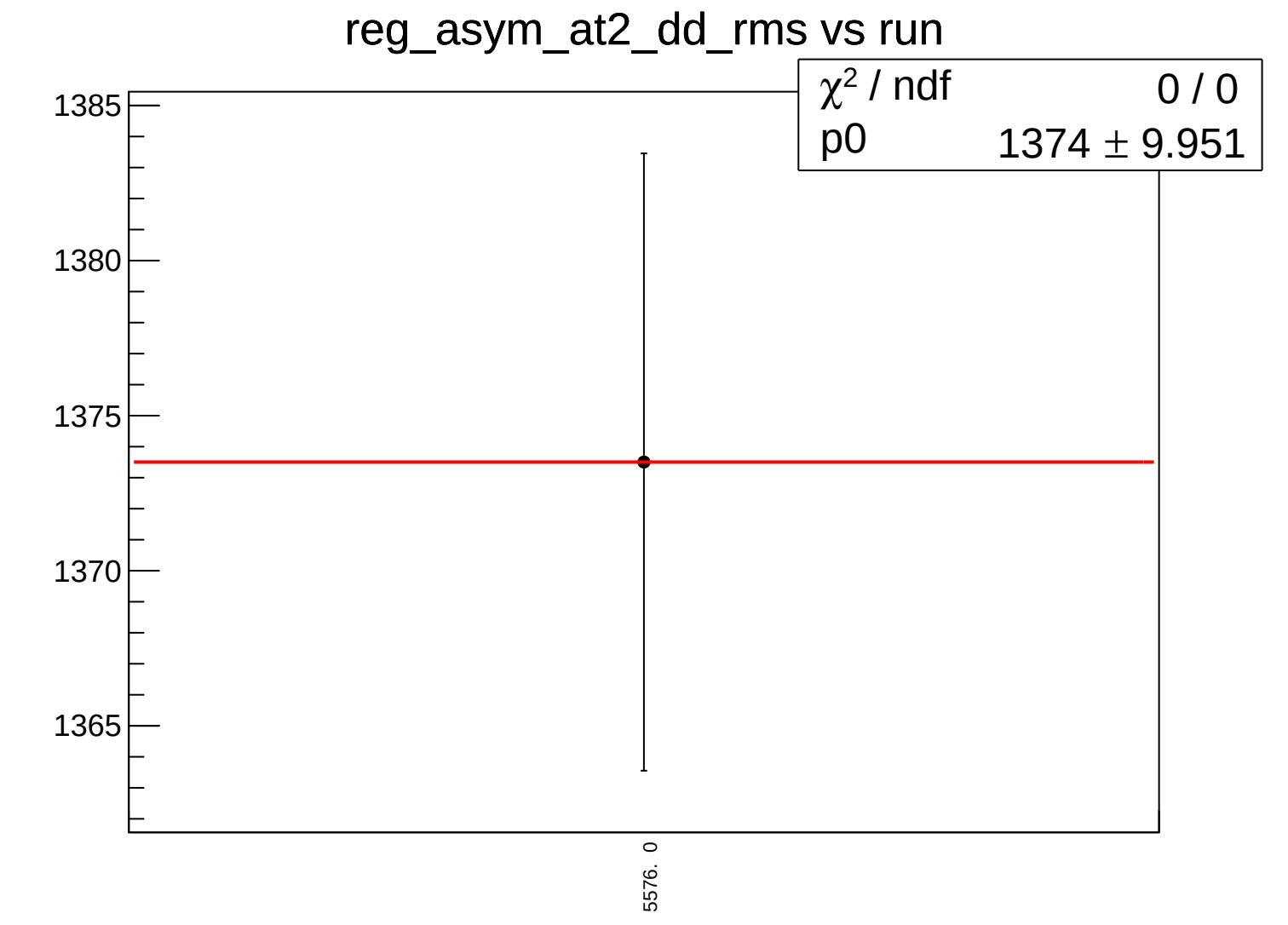

asym_at2_avg_mean vs run
χ² / ndf 0 / 0
p0 4.022e+04 ± 4.346e+04
80000
60000
40000
20000
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

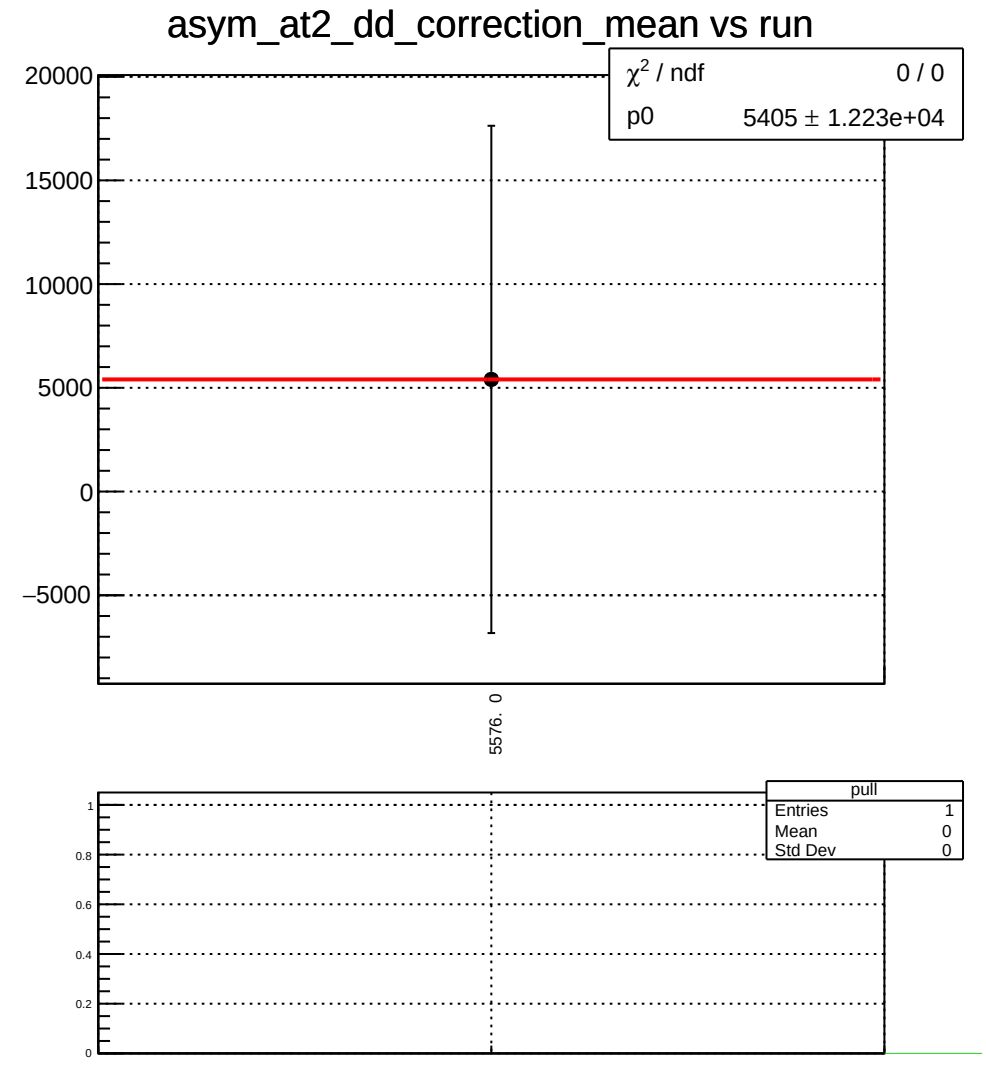

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

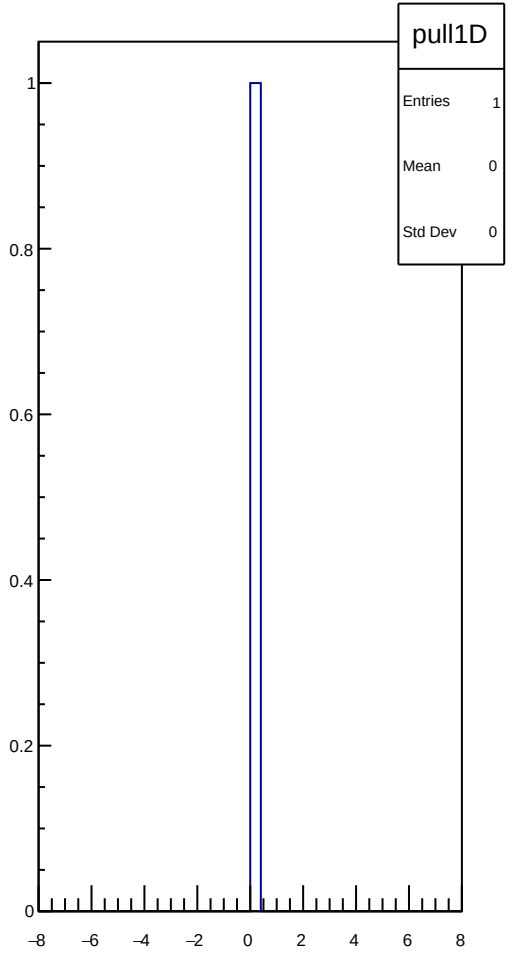

asym_at2_avg_rms vs run
χ² / ndf 0 / 0
p0 4242 ± 30.73
4270
4260
4250
4240
4230
4220
4210
5576. 0

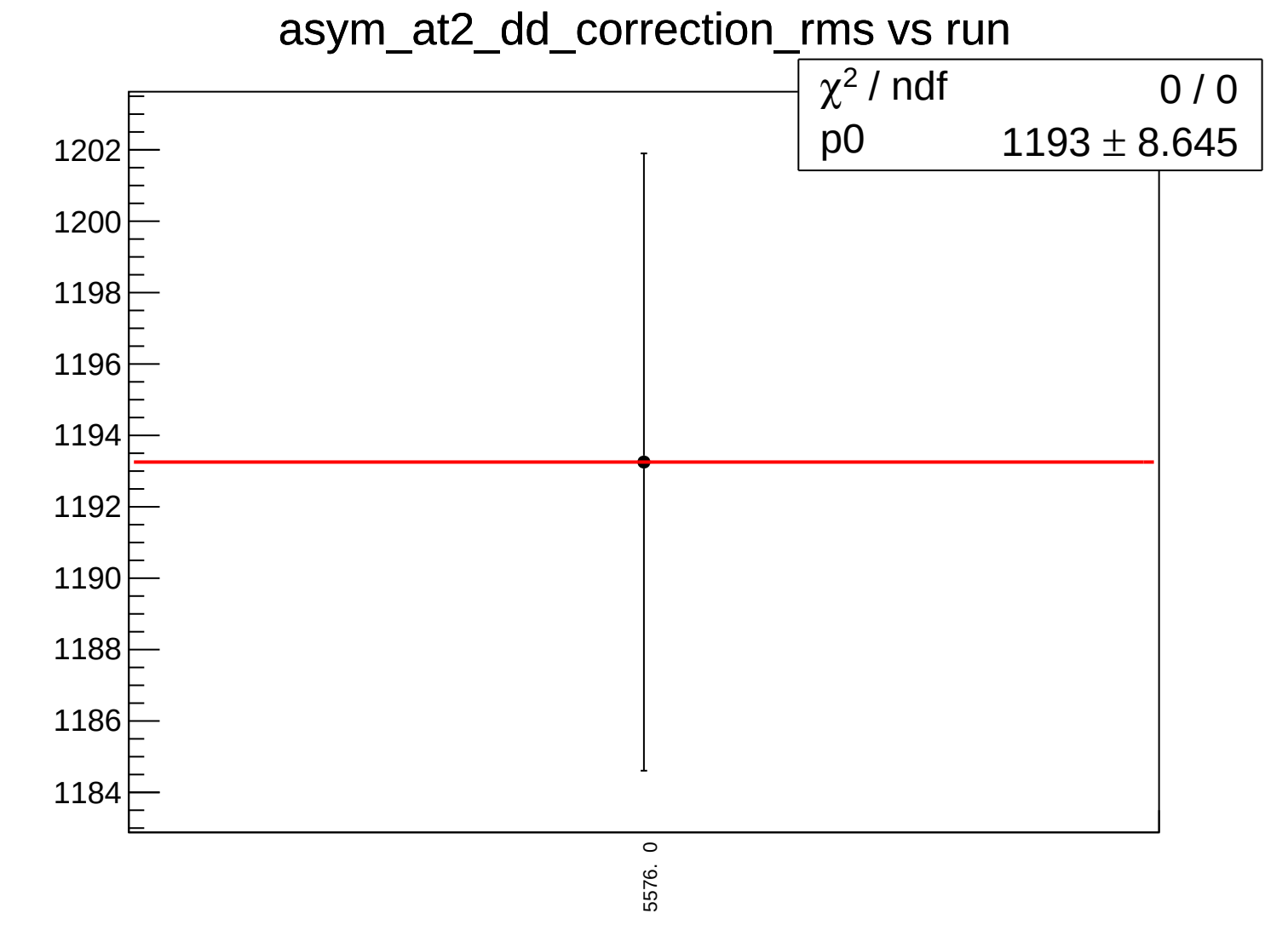

reg_asym_at2_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.201e+04 ± 1.407e+04
0
−5000
−10000
−15000
−20000
−25000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

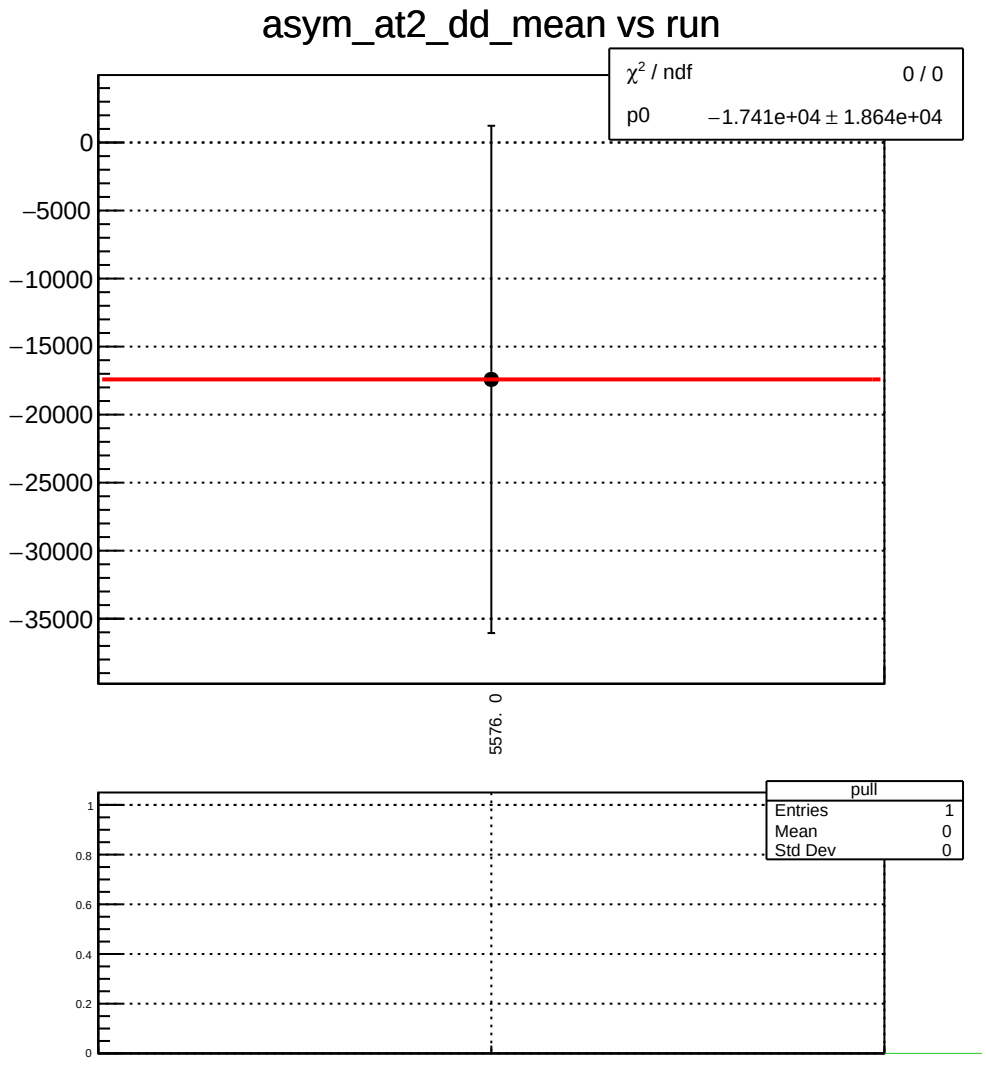

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

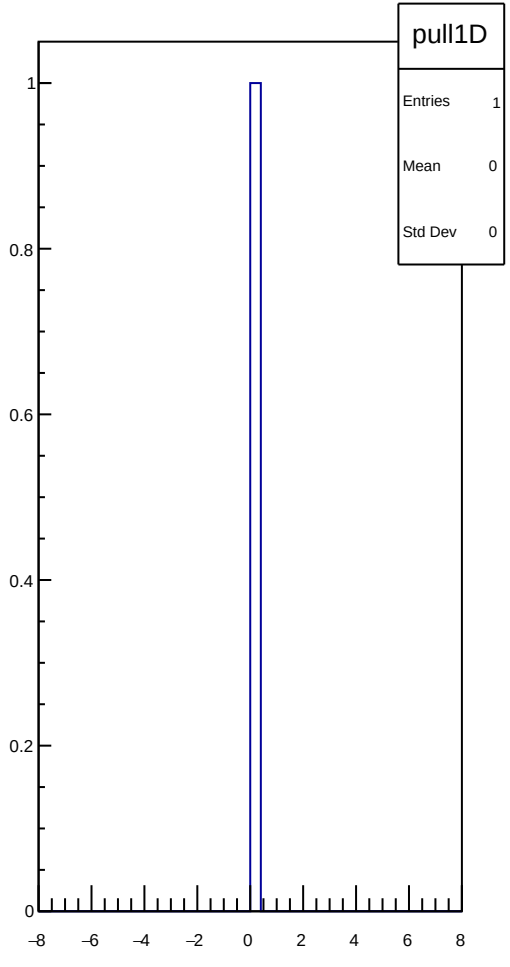

reg_asym_at2_dd_rms vs run
χ² / ndf 0 / 0
p0 1374 ± 9.951
1385
1380
1375
1370
1365
5576. 0


asym_at2_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 5405 ± 1.223e+04
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_at2_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 1193 ± 8.645
1202
1200
1198
1196
1194
1192
1190
1188
1186
1184
5576. 0


asym_at2_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.741e+04 ± 1.864e+04
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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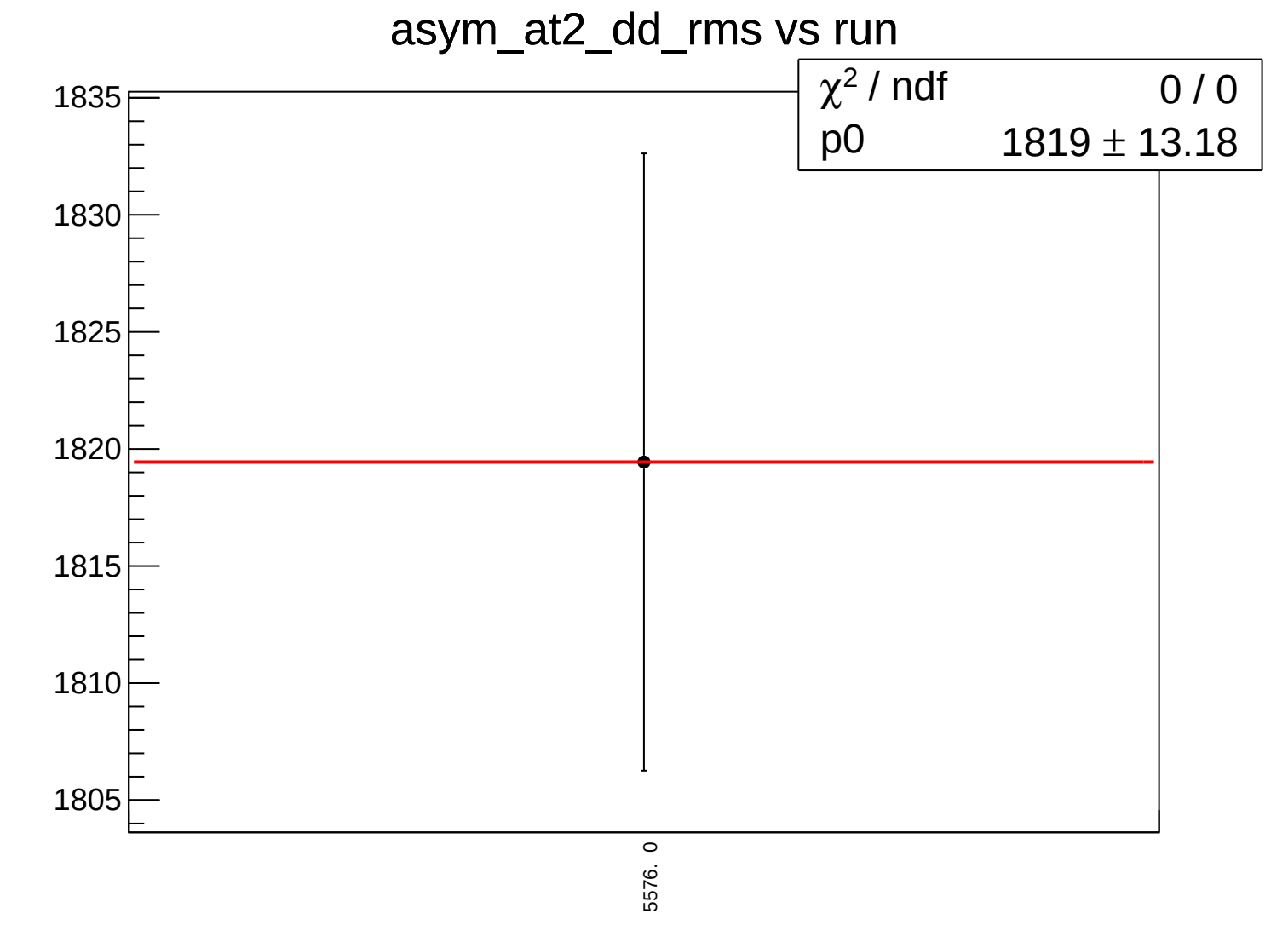
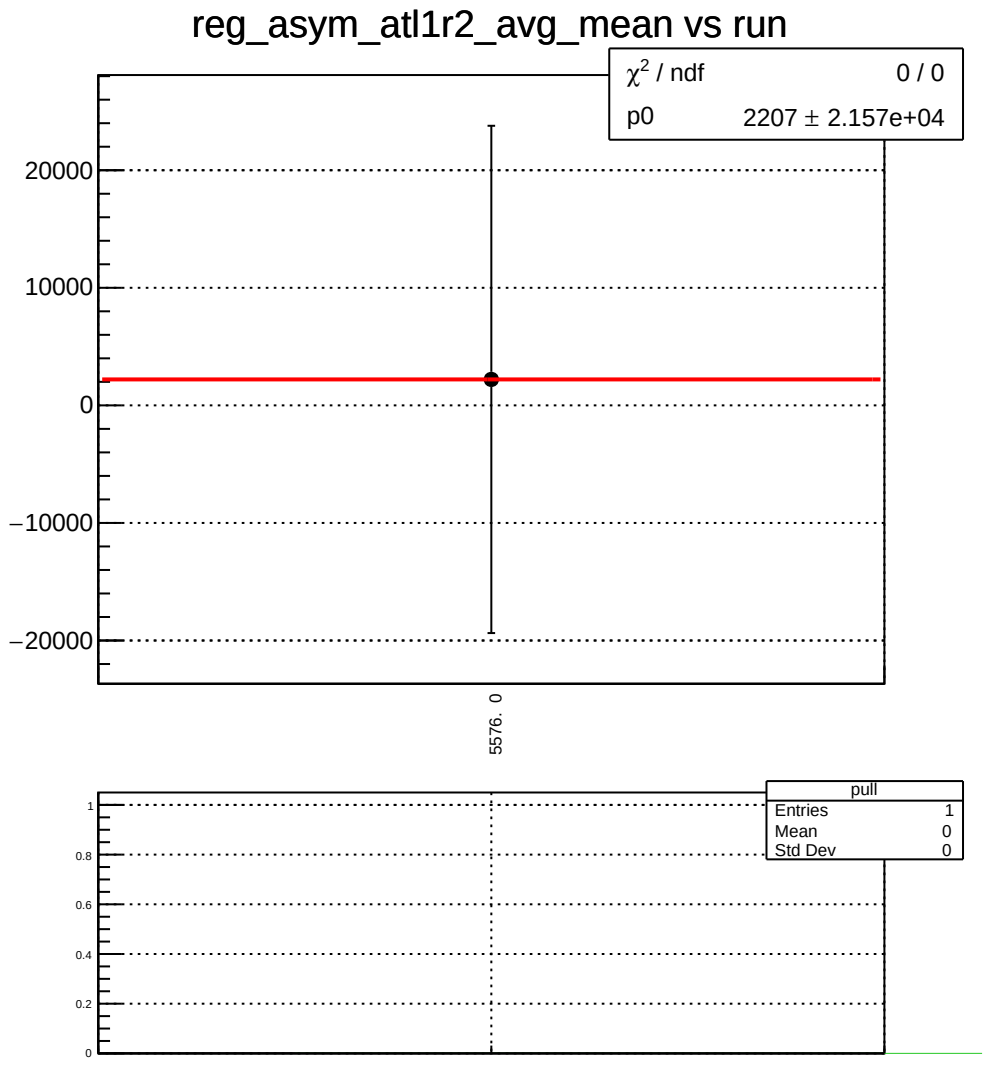
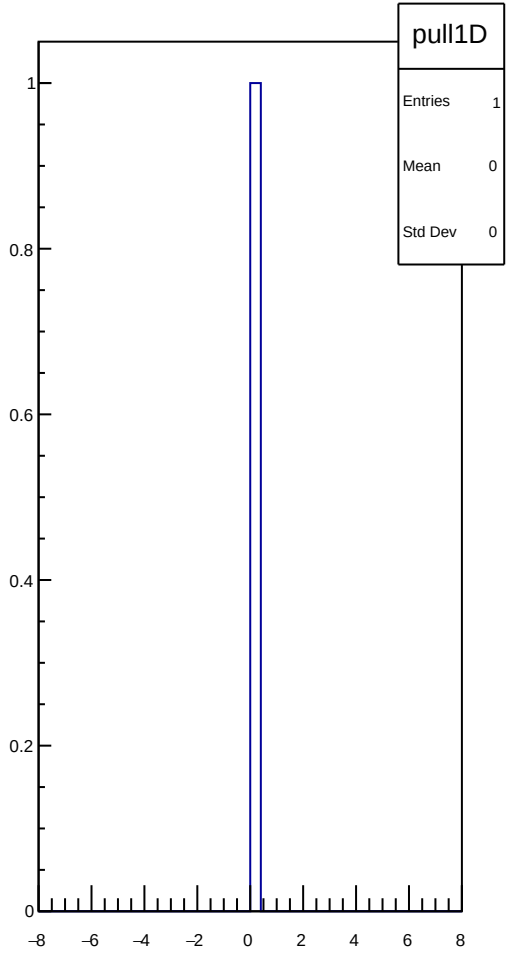
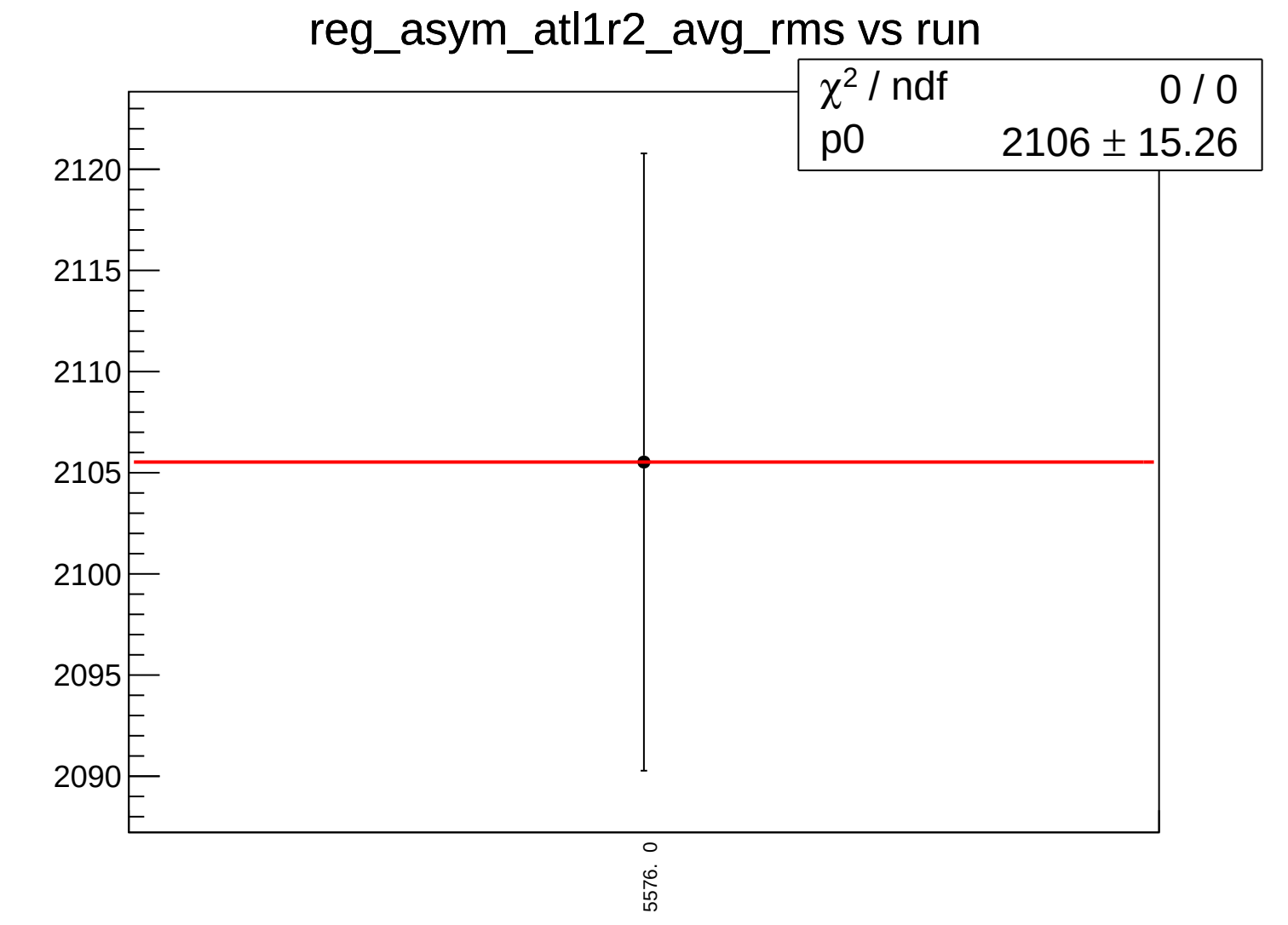
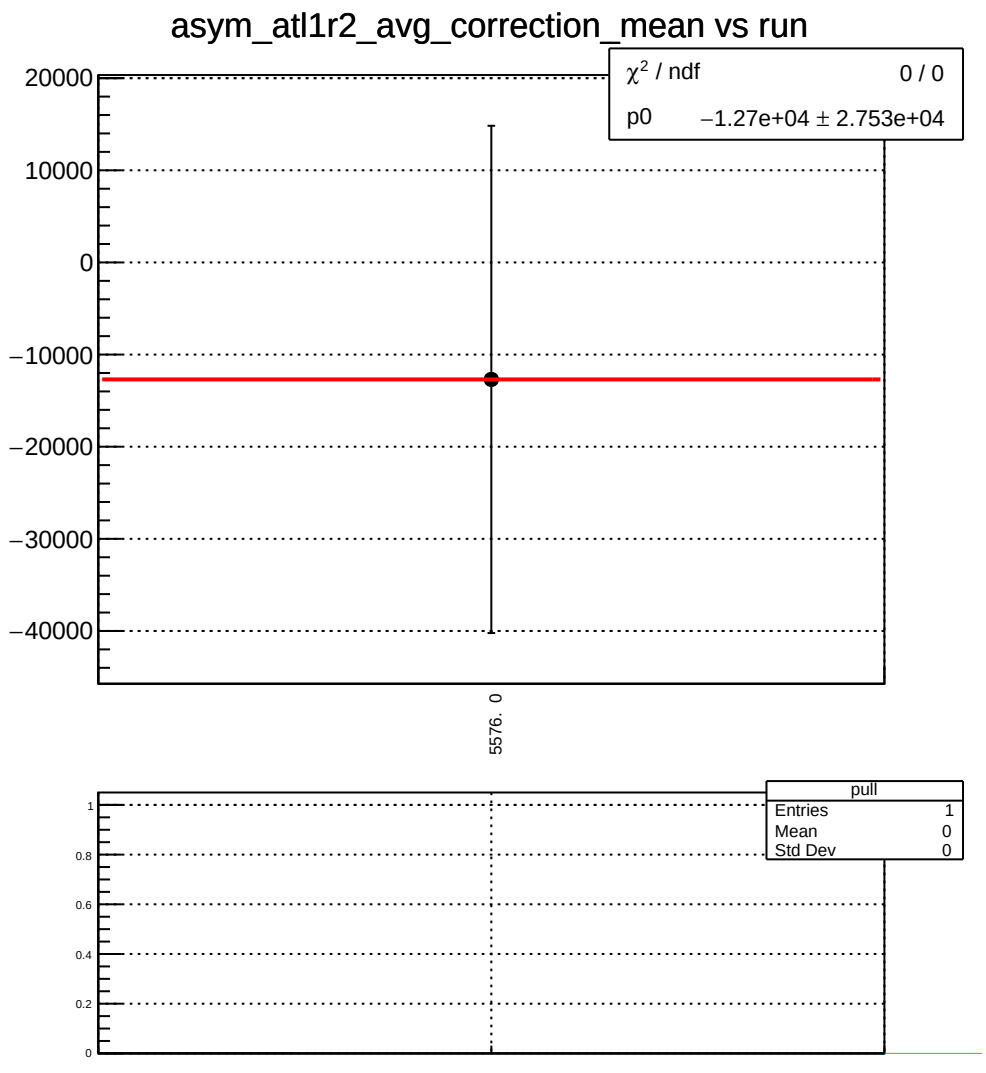
0
2
4
6
8

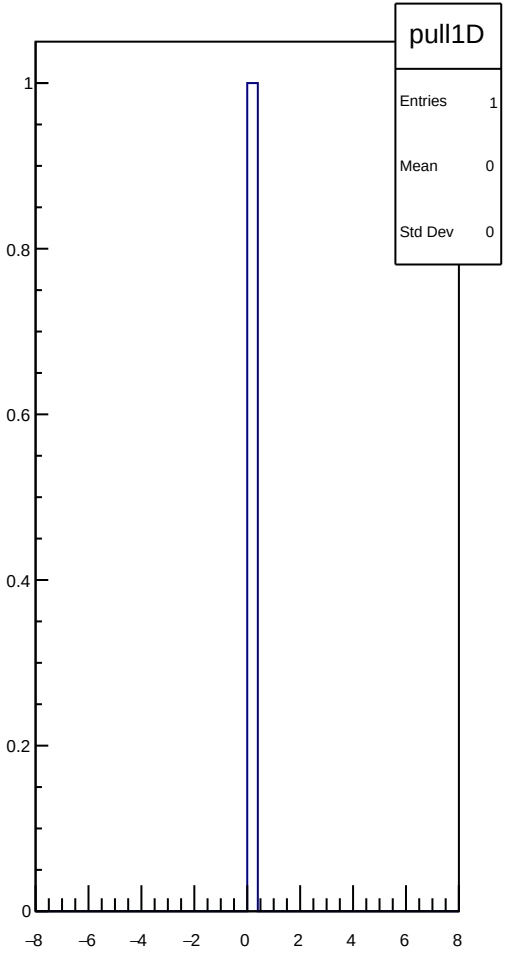

asym_at2_dd_rms vs run
χ² / ndf 0 / 0
p0 1819 ± 13.18
1835
1830
1825
1820
1815
1810
1805
5576. 0

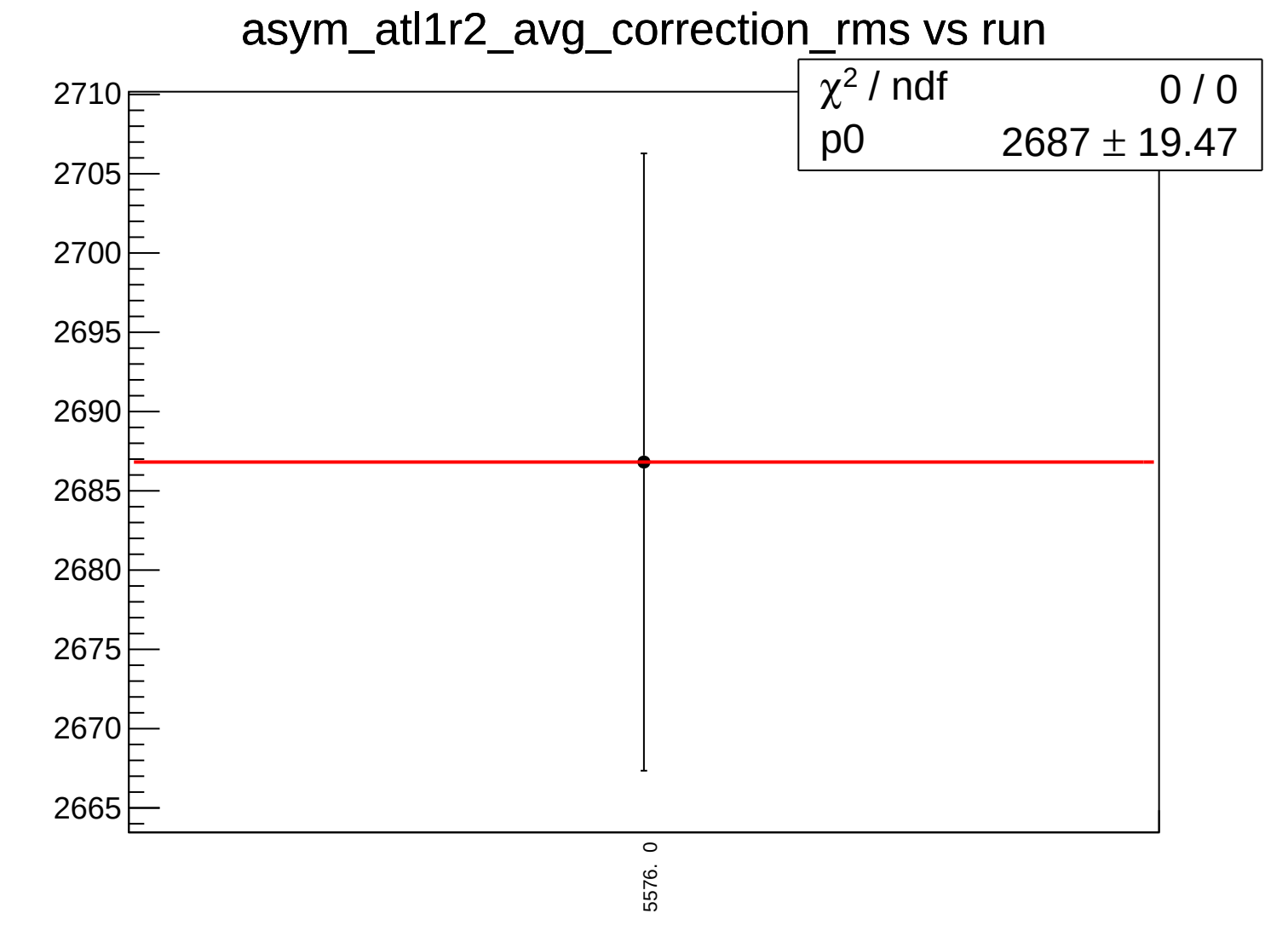

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 0 / 0
p0 2207 ± 2.157e+04
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

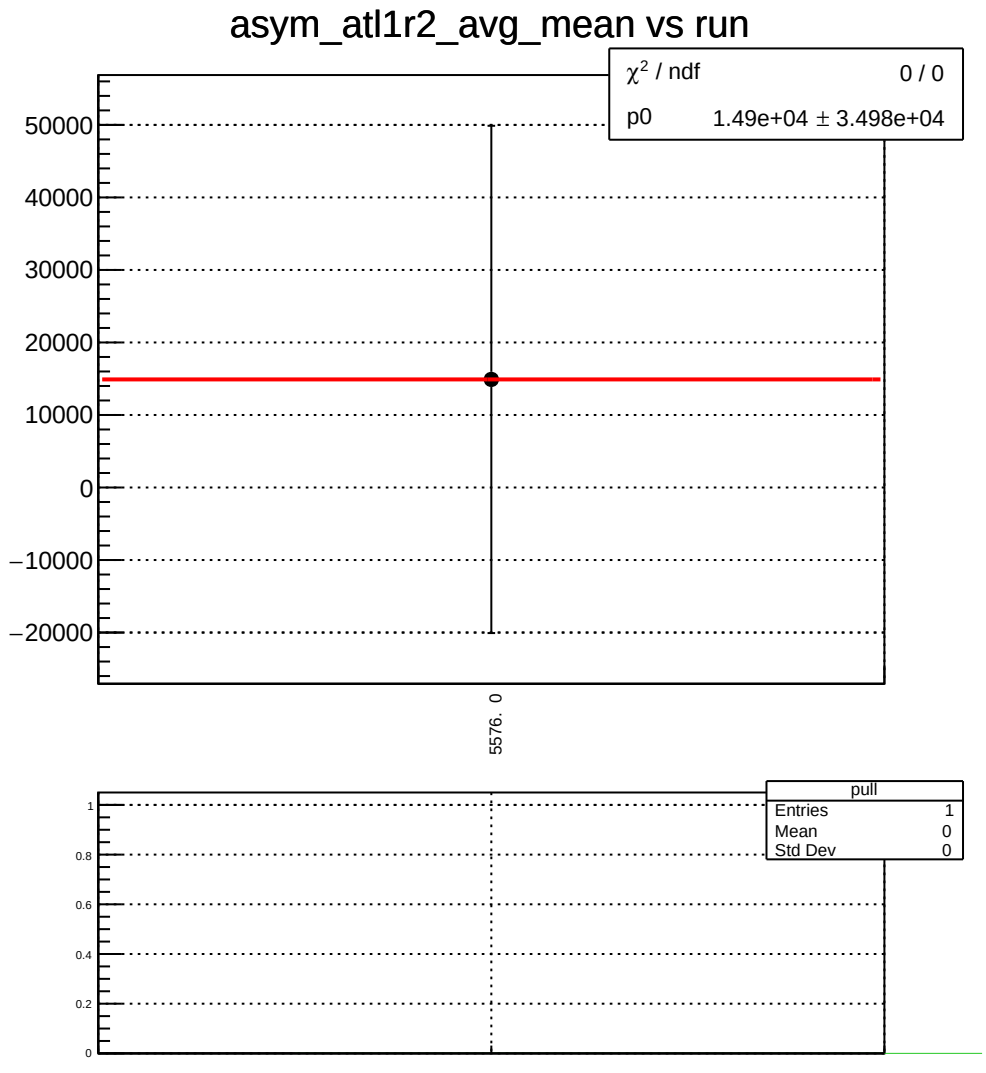

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

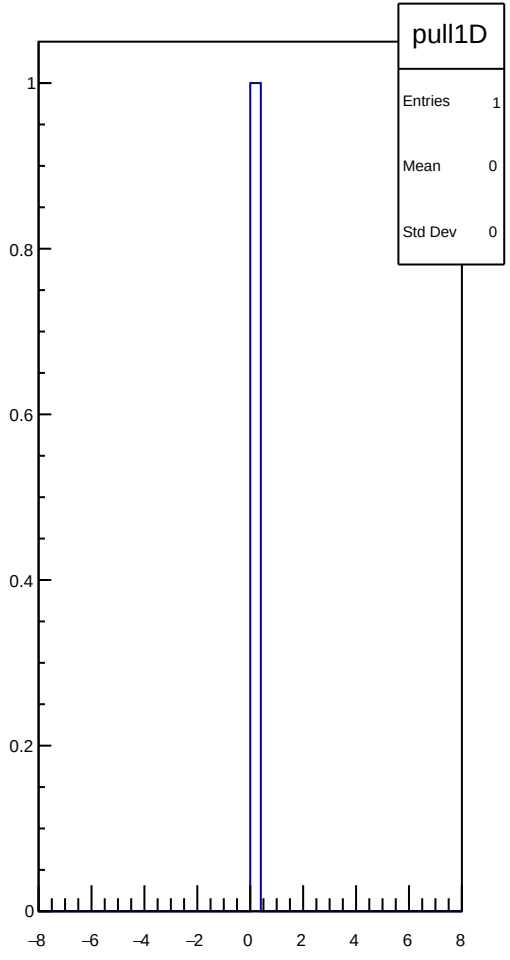

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 0 / 0
p0 2106 ± 15.26
2120
2115
2110
2105
2100
2095
2090
5576. 0

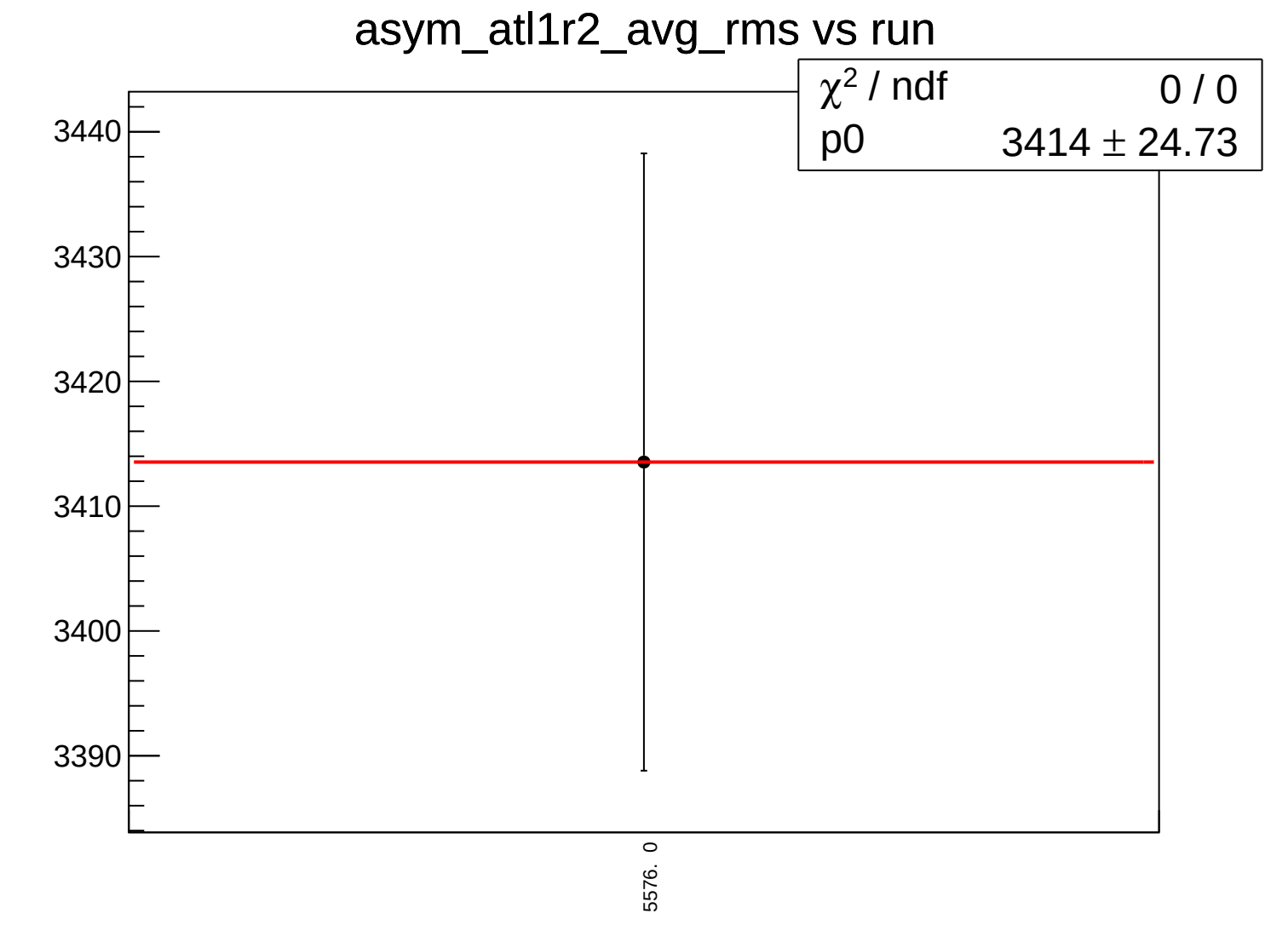

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −1.27e+04 ± 2.753e+04
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

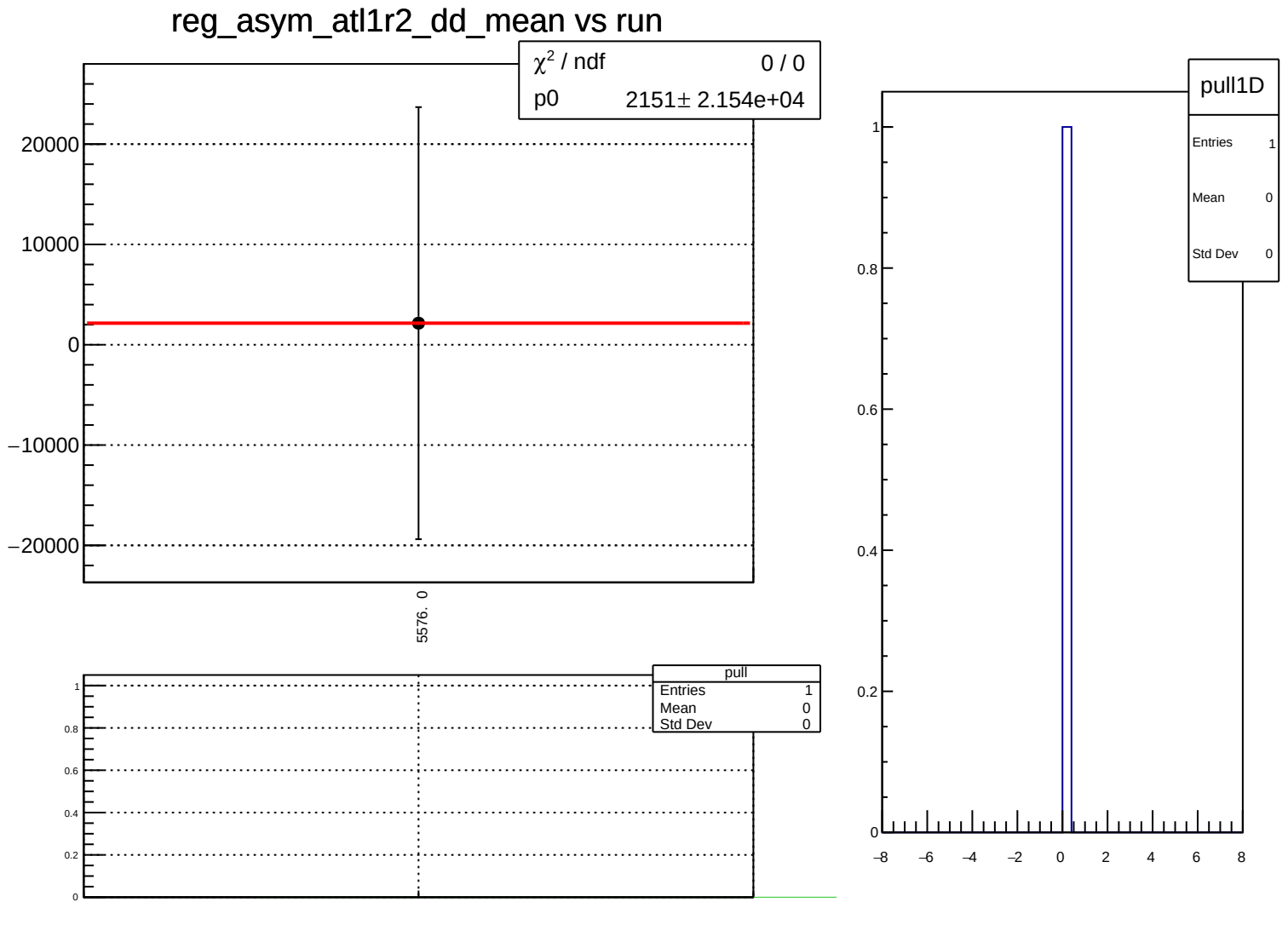

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

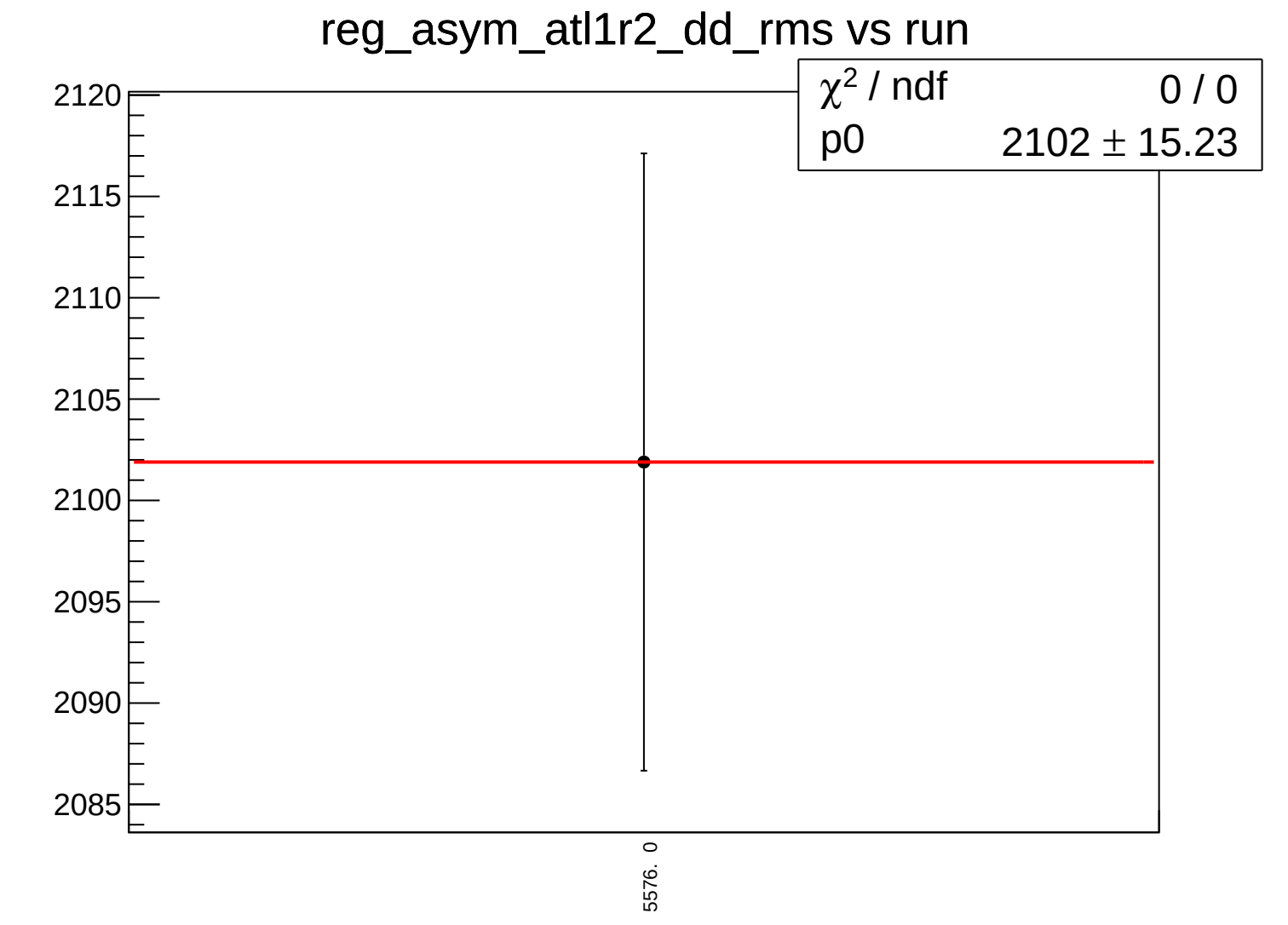

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 2687 ± 19.47
2710
2705
2700
2695
2690
2685
2680
2675
2670
2665
5576. 0

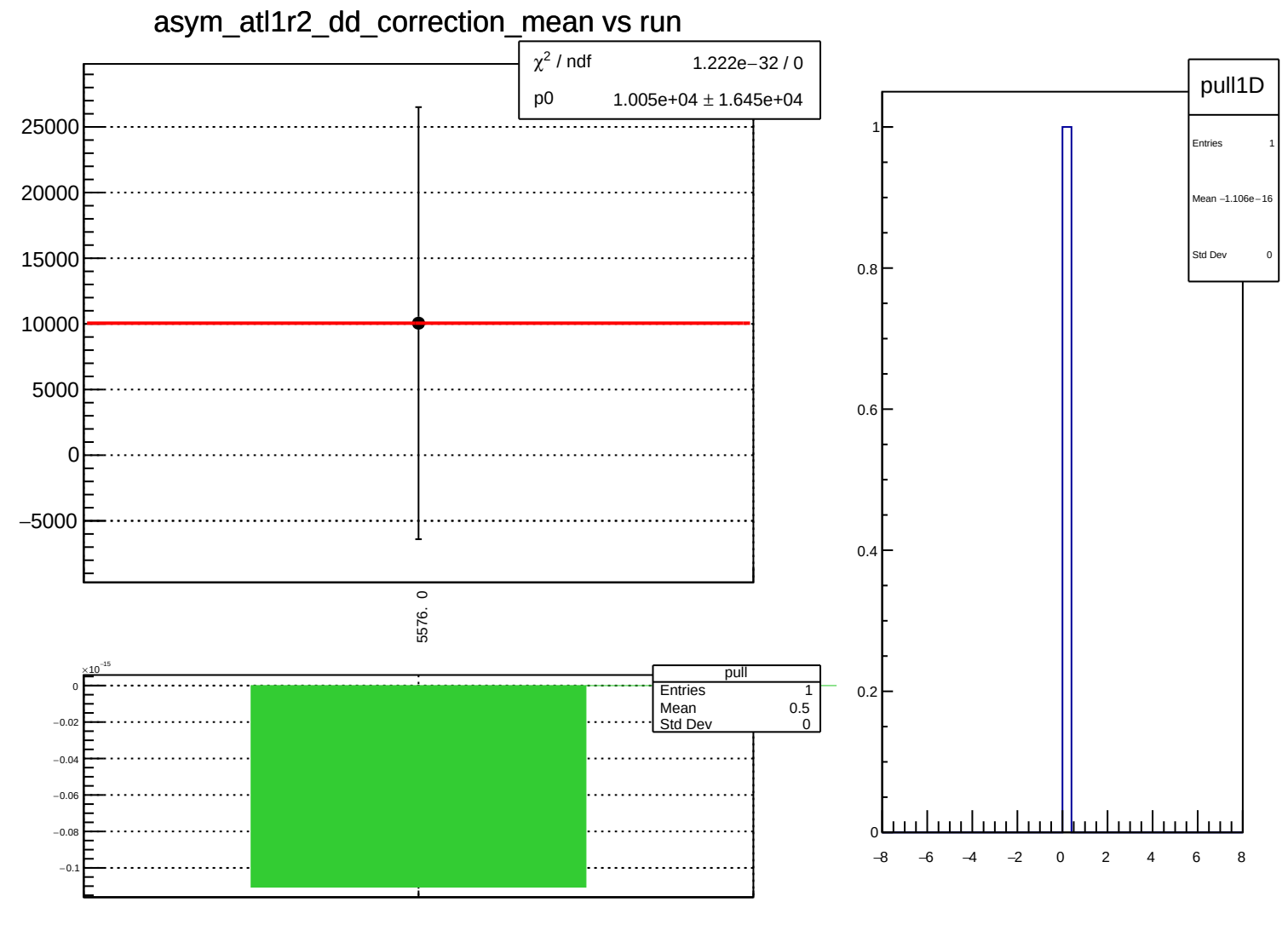

asym_atl1r2_avg_mean vs run
χ² / ndf 0 / 0
p0 1.49e+04 ± 3.498e+04
50000
40000
30000
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

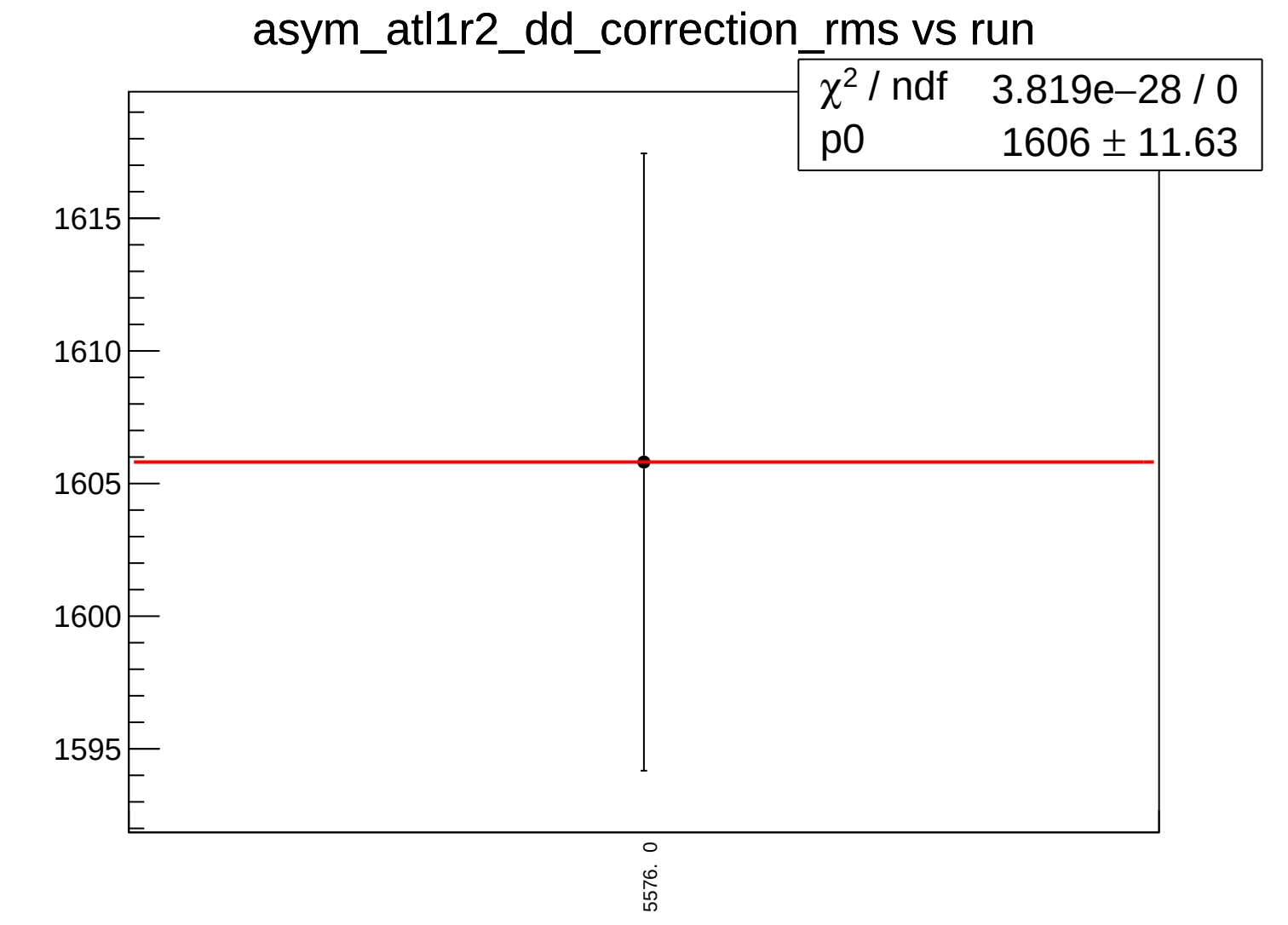

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

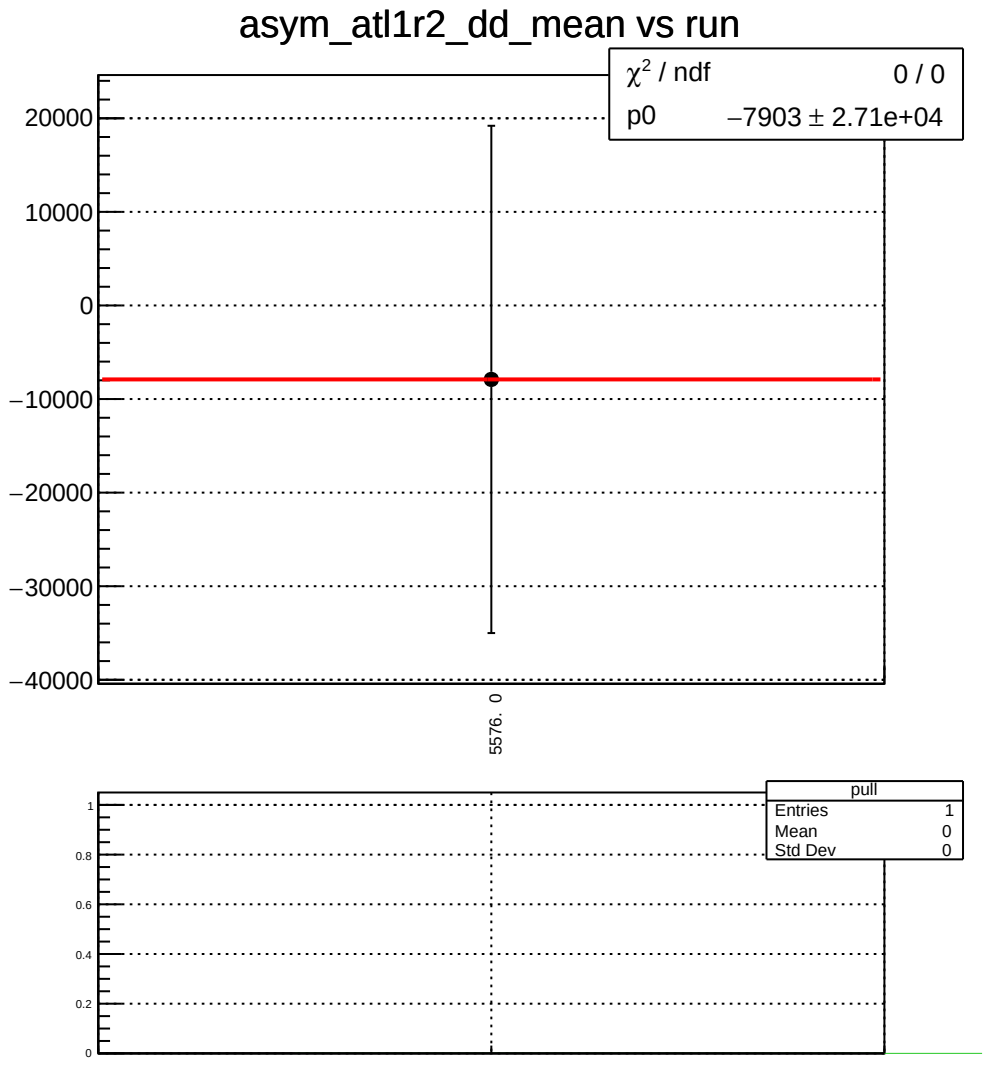

asym_atl1r2_avg_rms vs run
χ² / ndf 0 / 0
p0 3414 ± 24.73
3440
3430
3420
3410
3400
3390
5576. 0

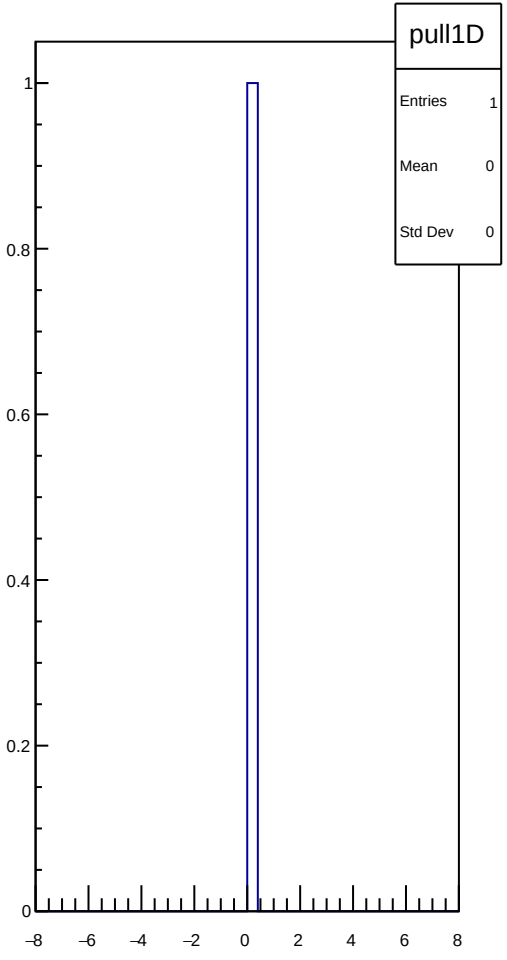

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 0 / 0
p0 2151± 2.154e+04
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

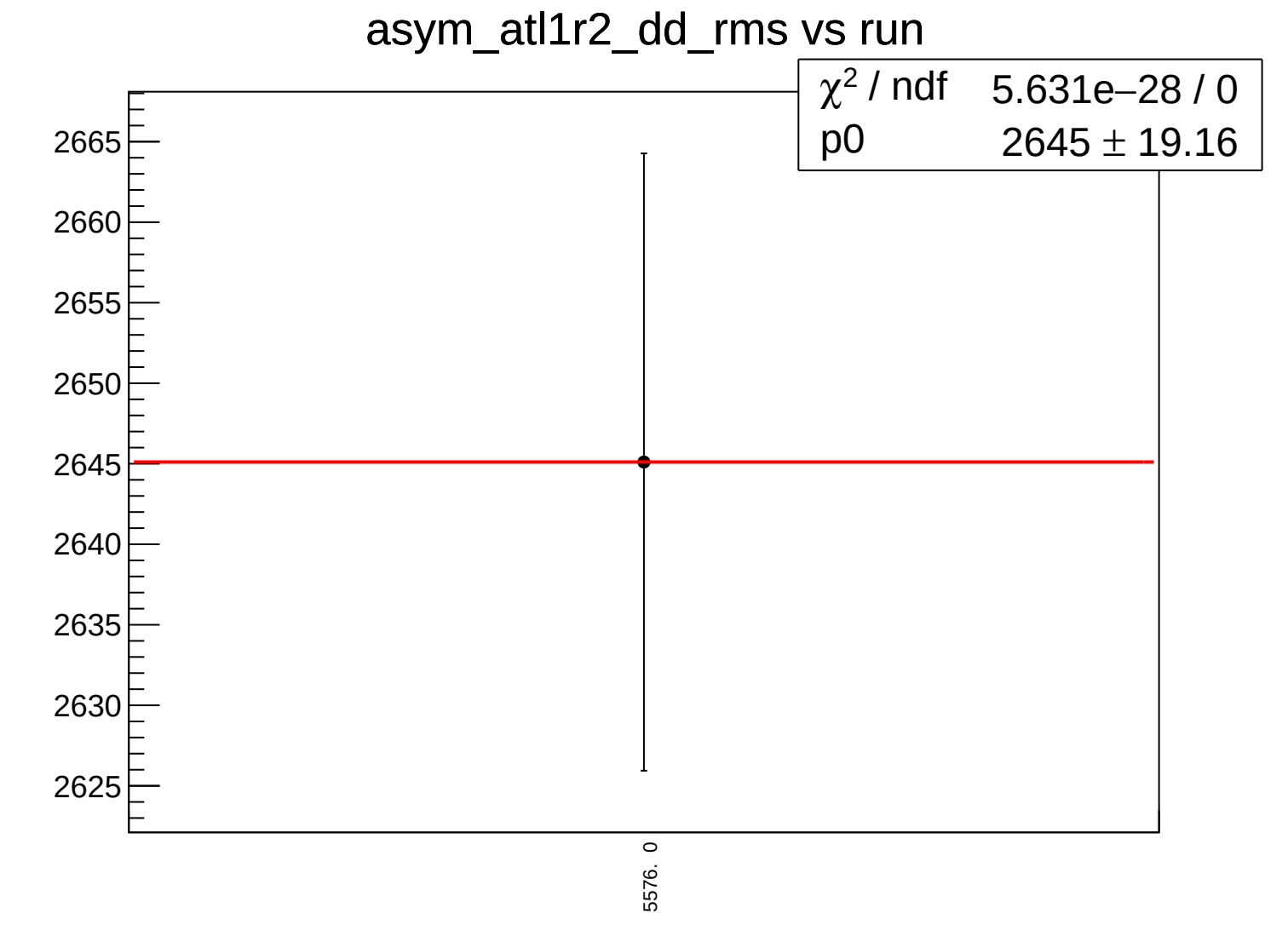

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 0 / 0
p0 2102 ± 15.23
2120
2115
2110
2105
2100
2095
2090
2085
5576. 0

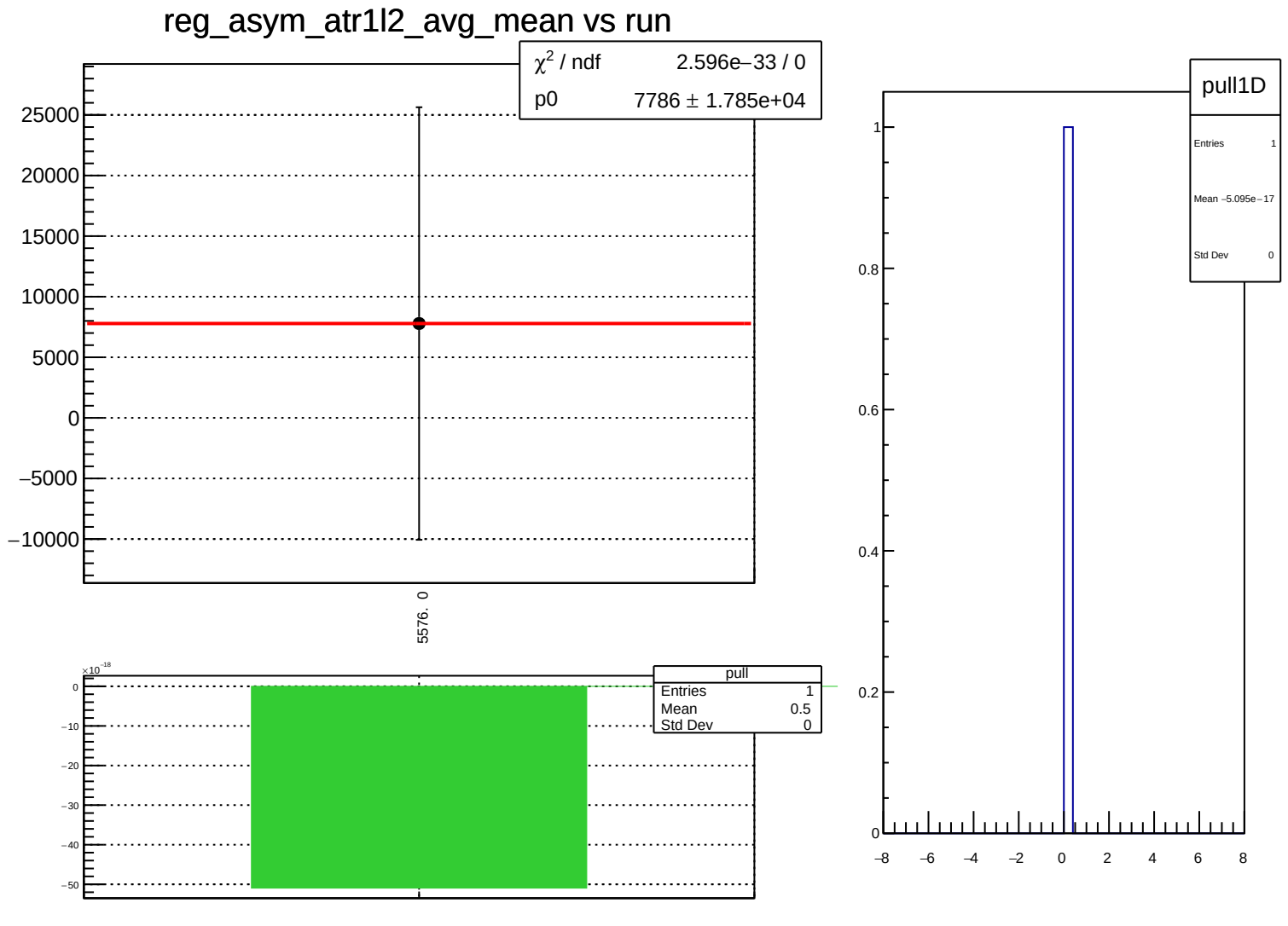

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 1.222e−32 / 0
p0 1.005e+04 ± 1.645e+04
25000
20000
15000
10000
5000
0
−5000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.106e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

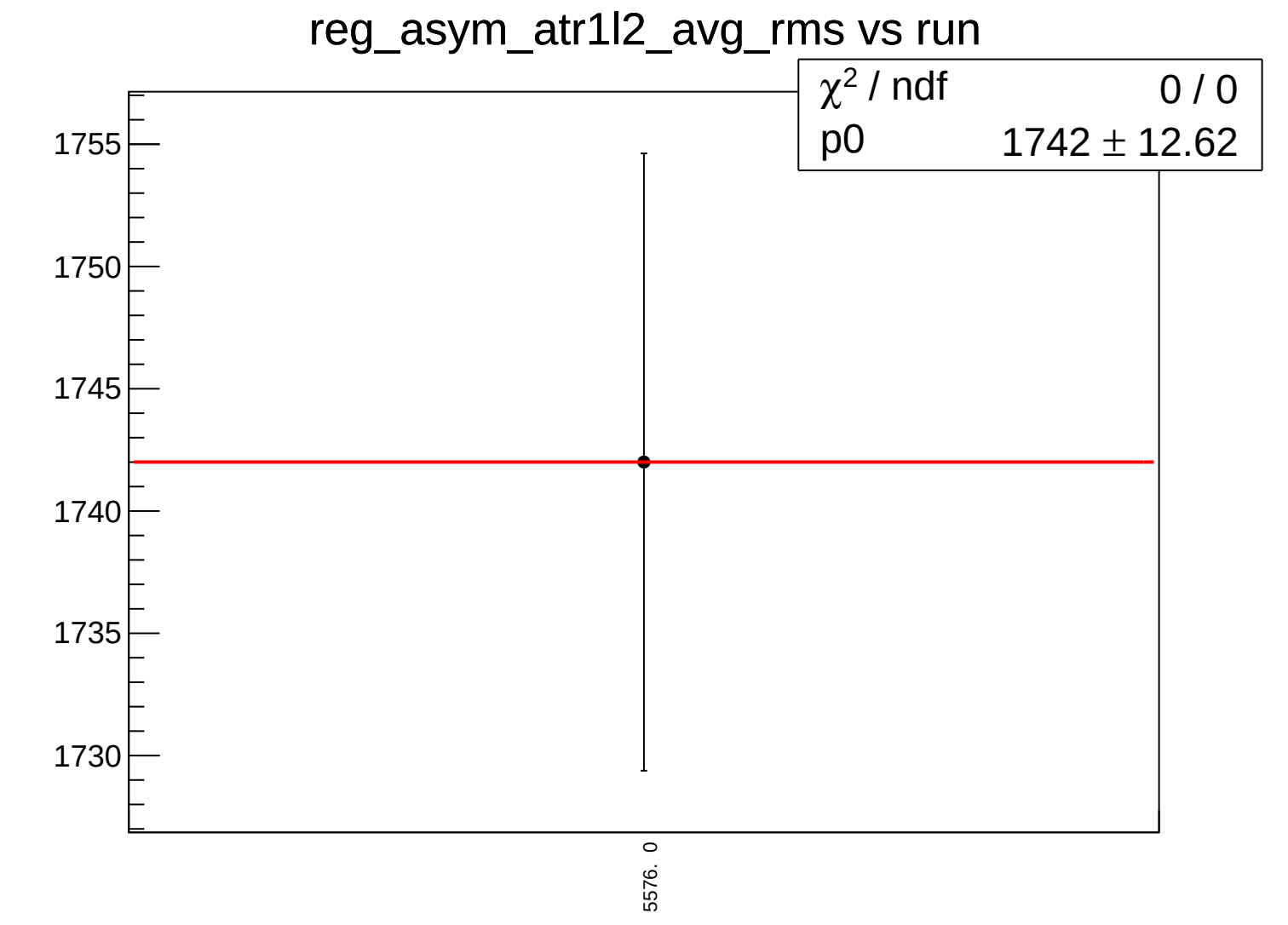

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3.819e−28 / 0
p0 1606 ± 11.63
1615
1610
1605
1600
1595
5576. 0

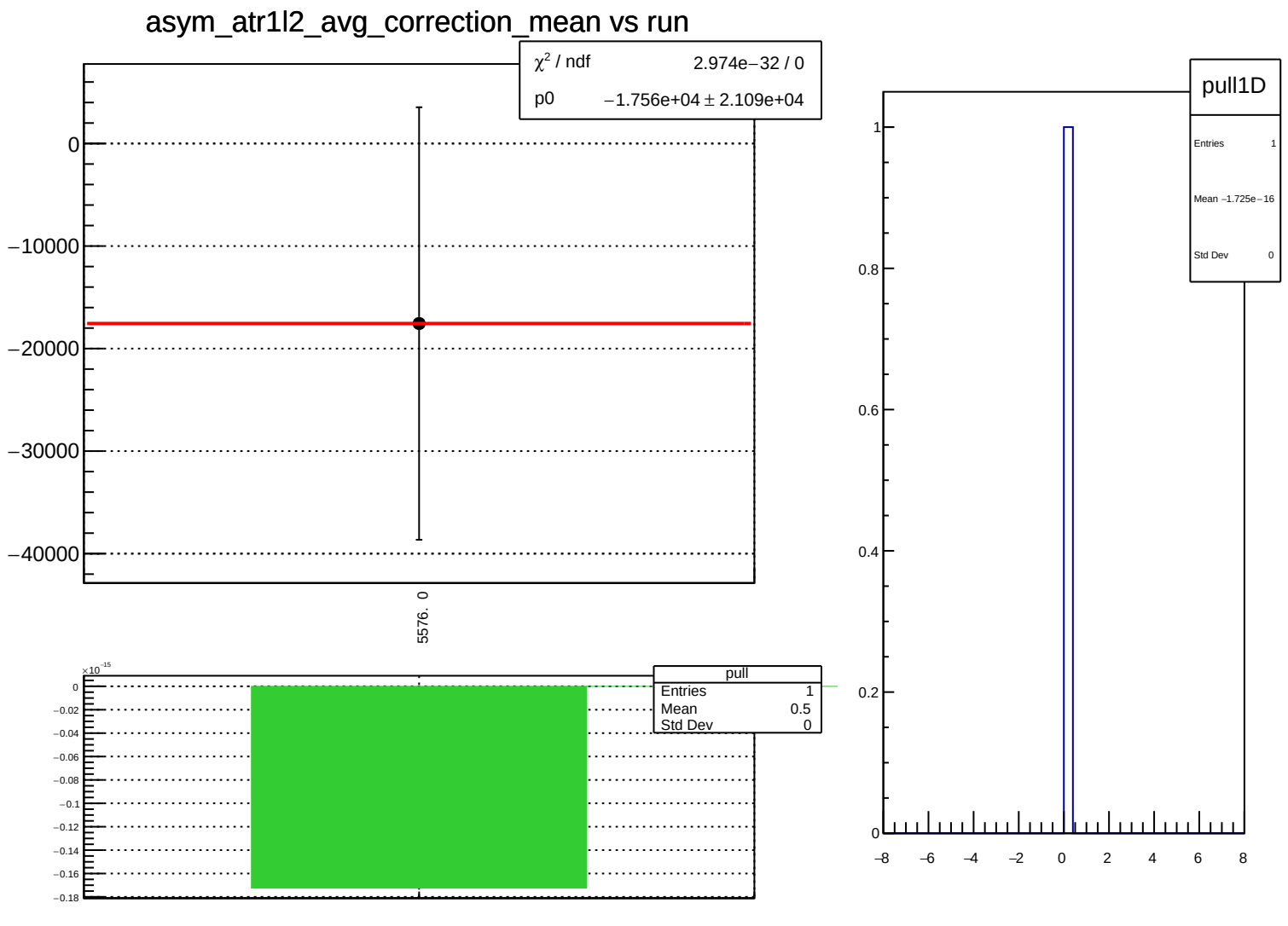

asym_atl1r2_dd_mean vs run
χ² / ndf 0 / 0
p0 −7903 ± 2.71e+04
20000
10000
0
−10000
−20000
−30000
−40000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_atl1r2_dd_rms vs run
χ² / ndf 5.631e−28 / 0
p0 2645 ± 19.16
2665
2660
2655
2650
2645
2640
2635
2630
2625
5576. 0


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 2.596e−33 / 0
p0 7786 ± 1.785e+04
25000
20000
15000
10000
5000
0
−5000
−10000
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −5.095e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 0 / 0
p0 1742 ± 12.62
1755
1750
1745
1740
1735
1730
5576. 0


asym_atr1l2_avg_correction_mean vs run
χ² / ndf 2.974e−32 / 0
p0 −1.756e+04 ± 2.109e+04
0
−10000
−20000
−30000
−40000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.725e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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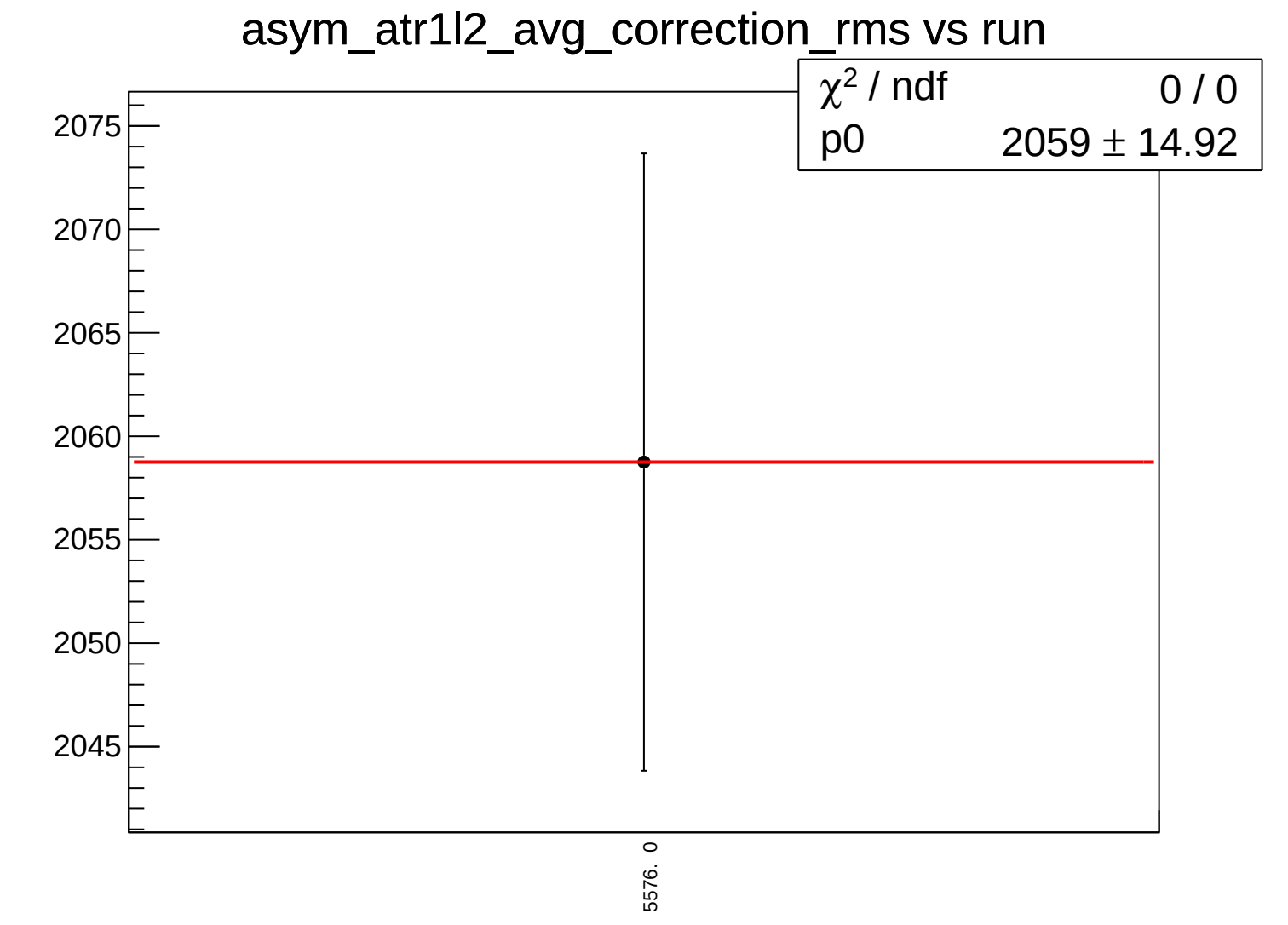
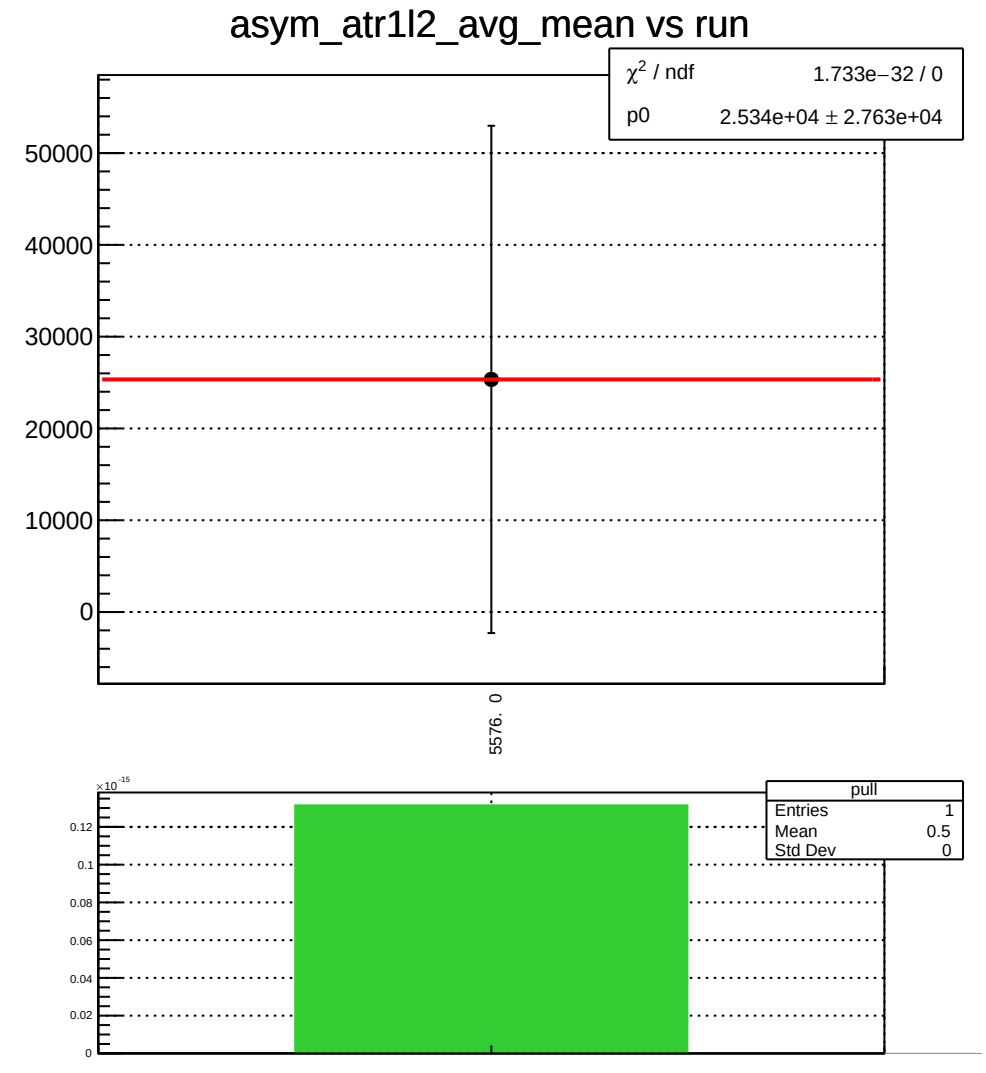
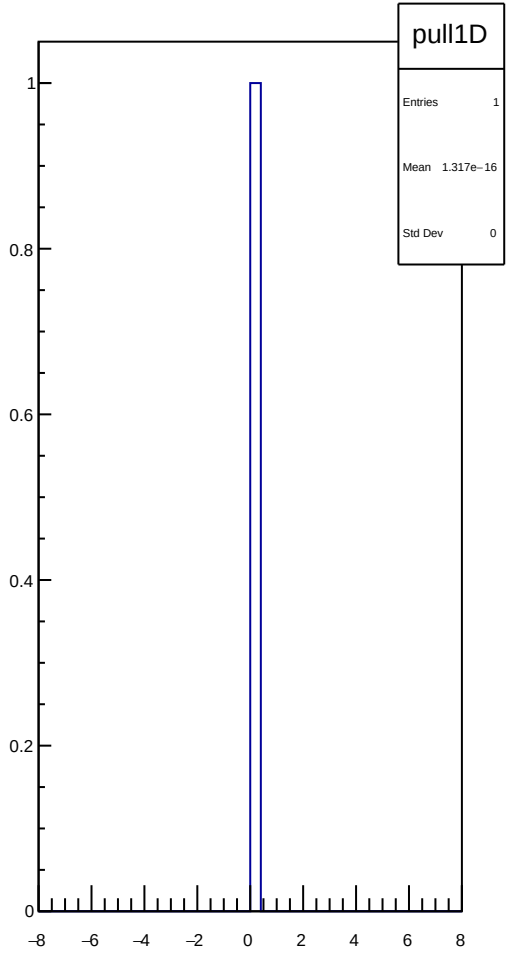
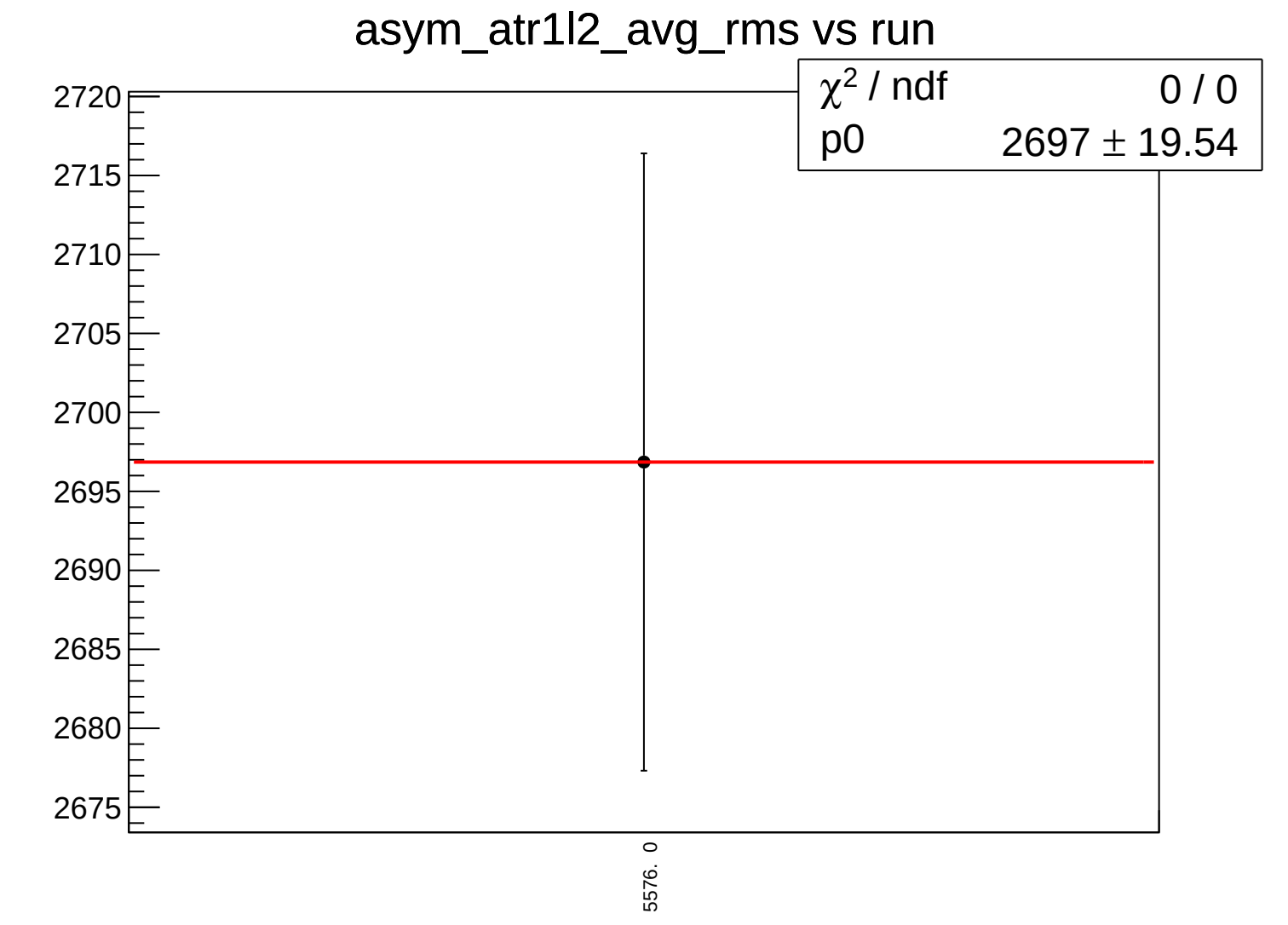
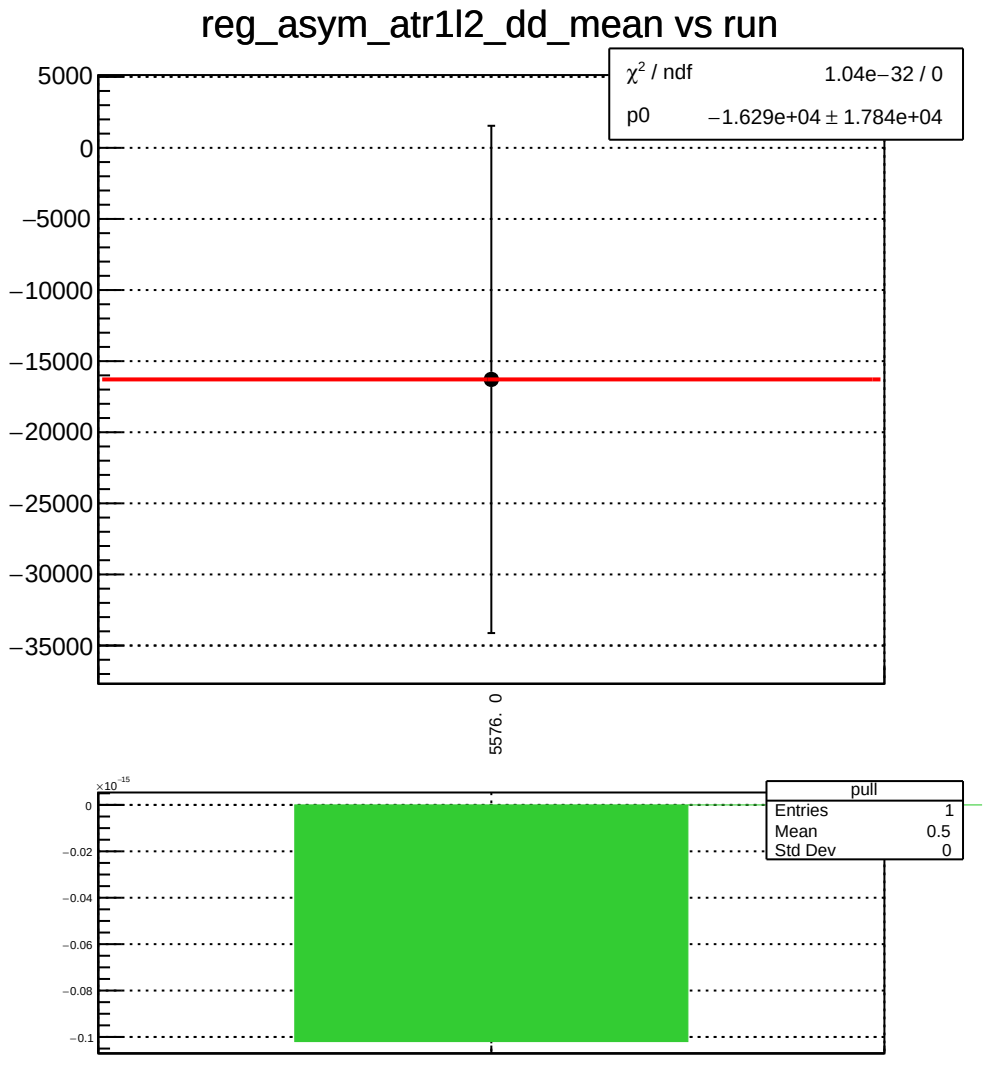
0
2
4
6
8

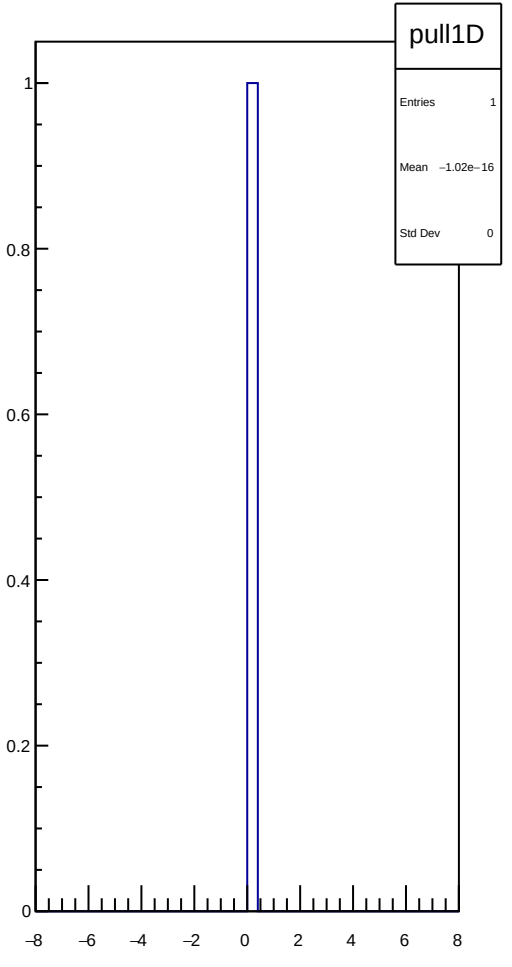

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 2059 ± 14.92
2075
2070
2065
2060
2055
2050
2045
5576. 0

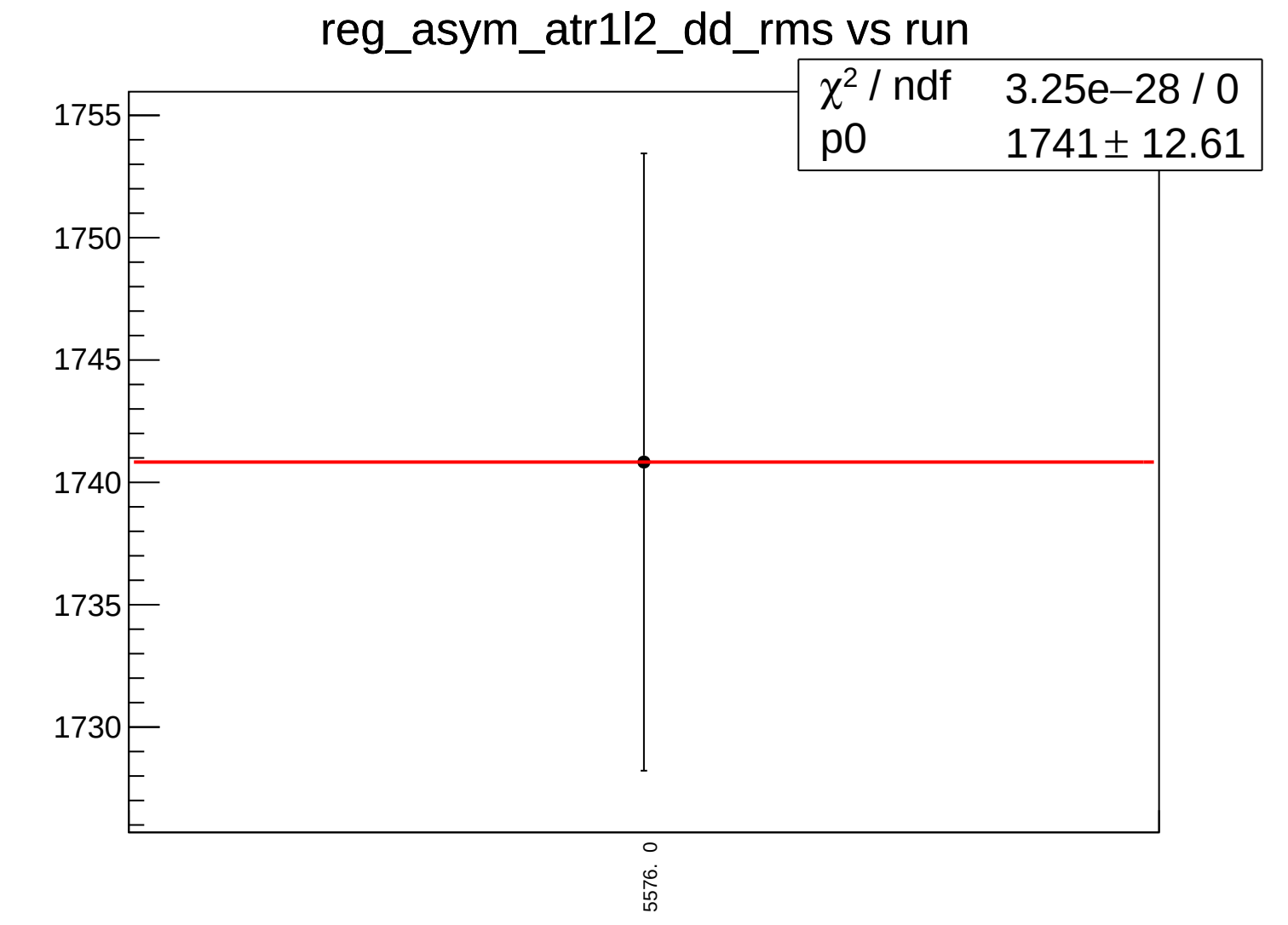

asym_atr1l2_avg_mean vs run
χ² / ndf 1.733e−32 / 0
p0 2.534e+04 ± 2.763e+04
50000
40000
30000
20000
10000
0
5576. 0
×10⁻¹⁵
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

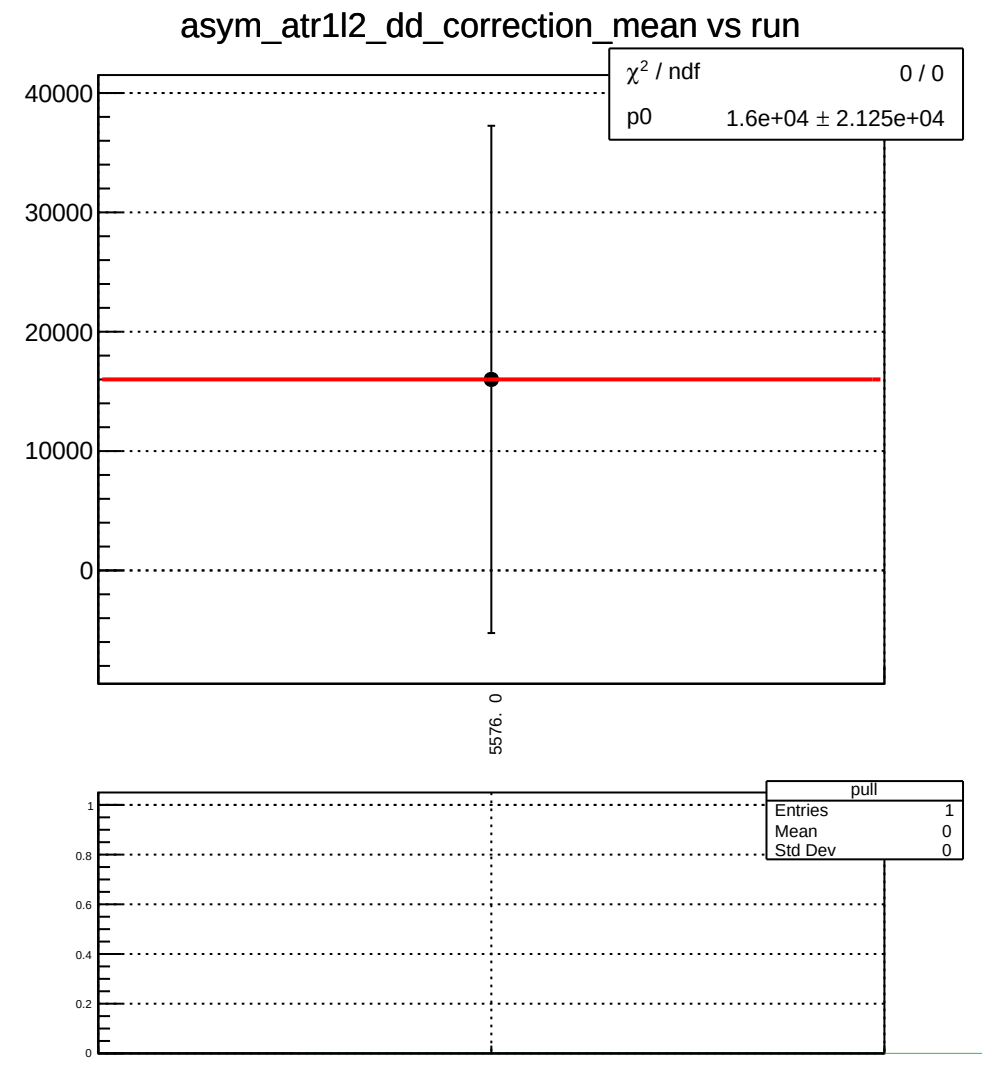

pull1D
Entries 1
Mean 1.317e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

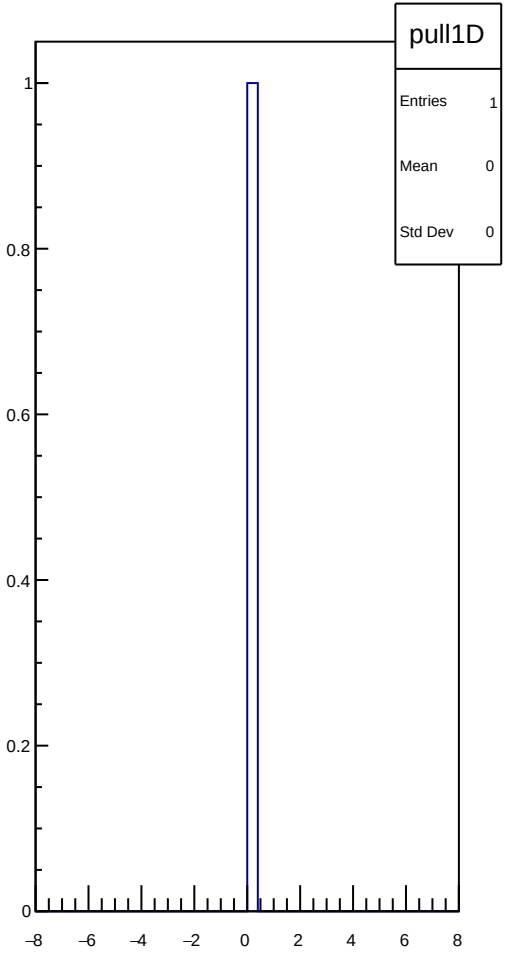

asym_atr1l2_avg_rms vs run
χ² / ndf 0 / 0
p0 2697 ± 19.54
2720
2715
2710
2705
2700
2695
2690
2685
2680
2675
5576. 0


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 1.04e−32 / 0
p0 −1.629e+04 ± 1.784e+04
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean −1.02e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 3.25e−28 / 0
p0 1741 ± 12.61
1755
1750
1745
1740
1735
1730
5576. 0


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1.6e+04 ± 2.125e+04
40000
30000
20000
10000
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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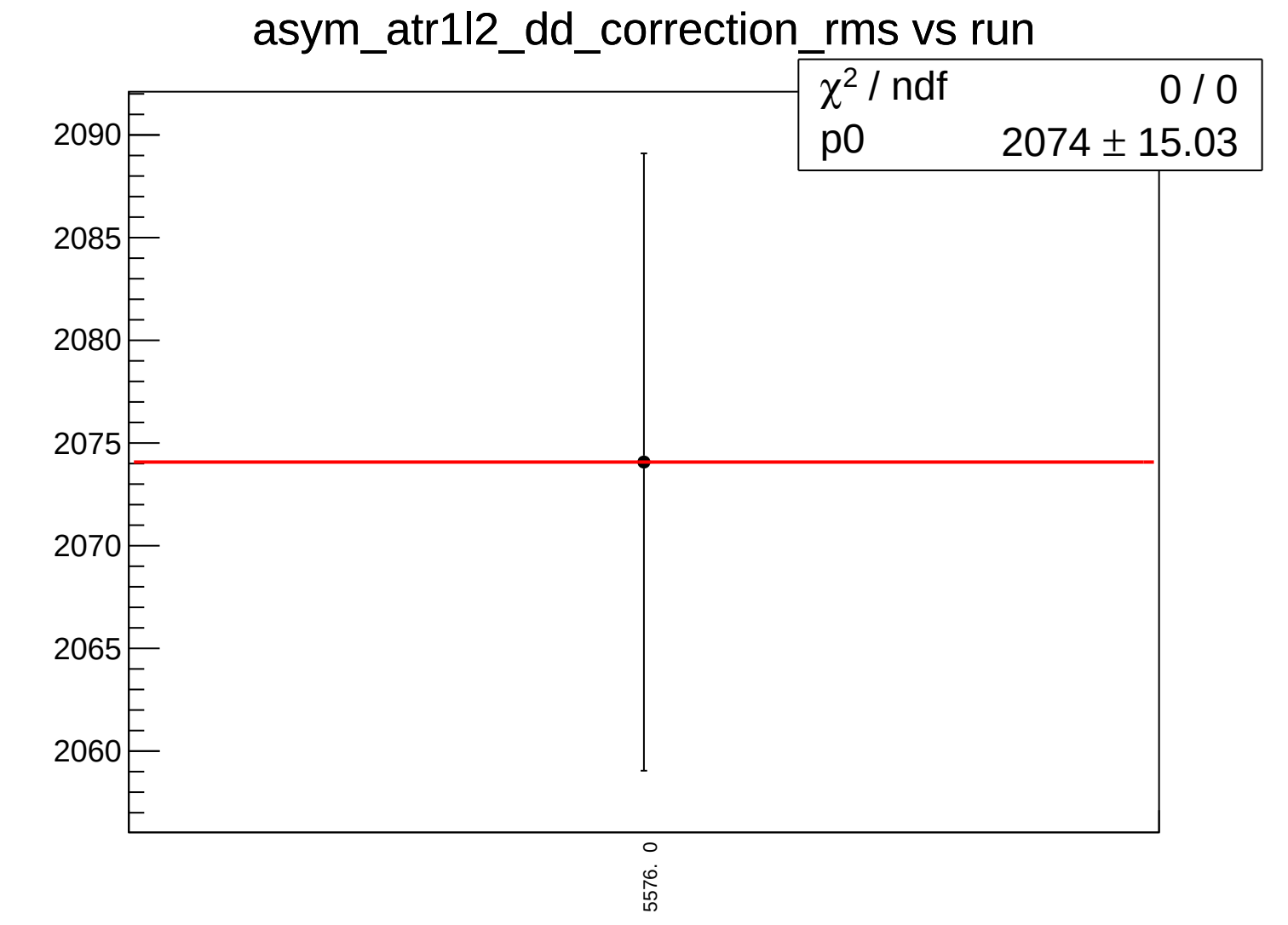
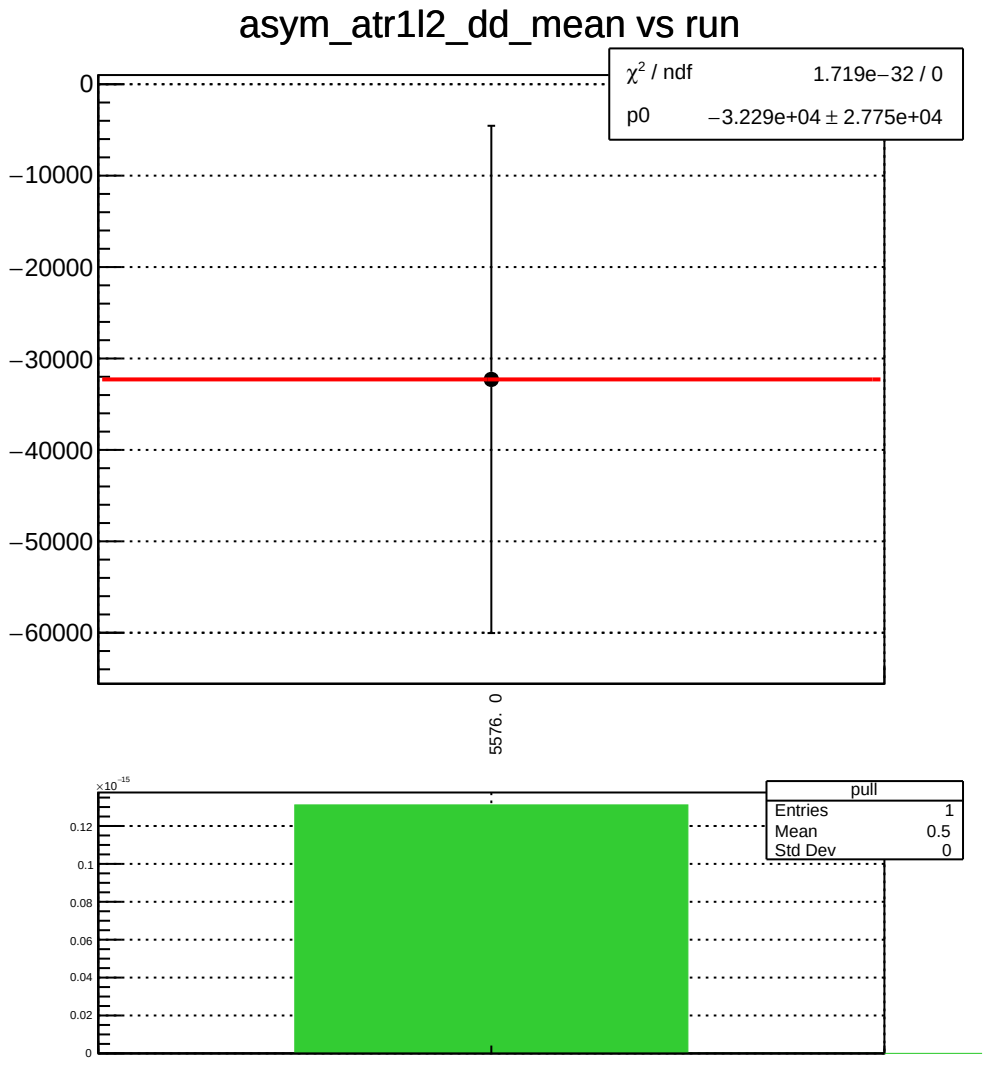
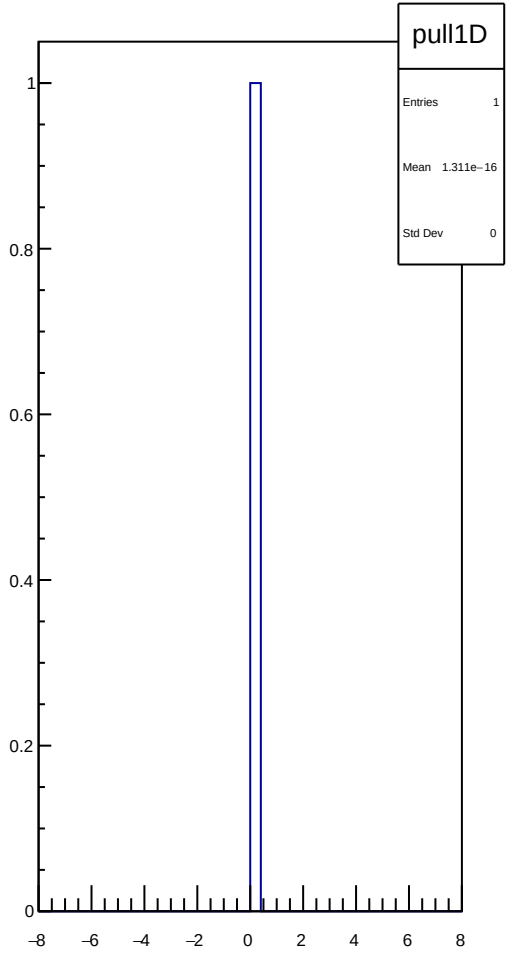
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 2074 ± 15.03
2090
2085
2080
2075
2070
2065
2060
5576. 0


asym_atr1l2_dd_mean vs run
χ² / ndf 1.719e−32 / 0
p0 −3.229e+04 ± 2.775e+04
0
−10000
−20000
−30000
−40000
−50000
−60000
5576. 0
×10⁻¹⁵
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 1.311e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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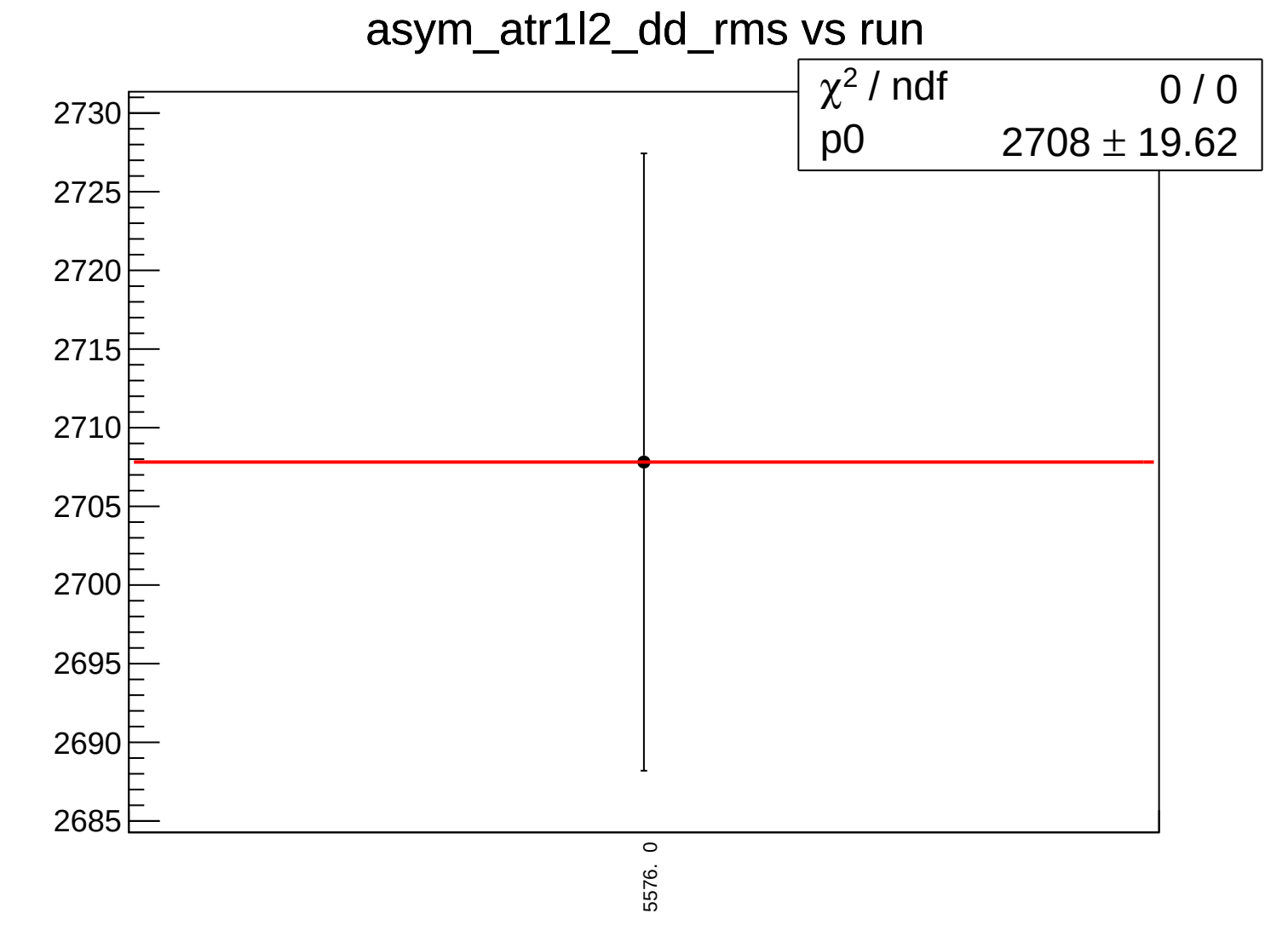
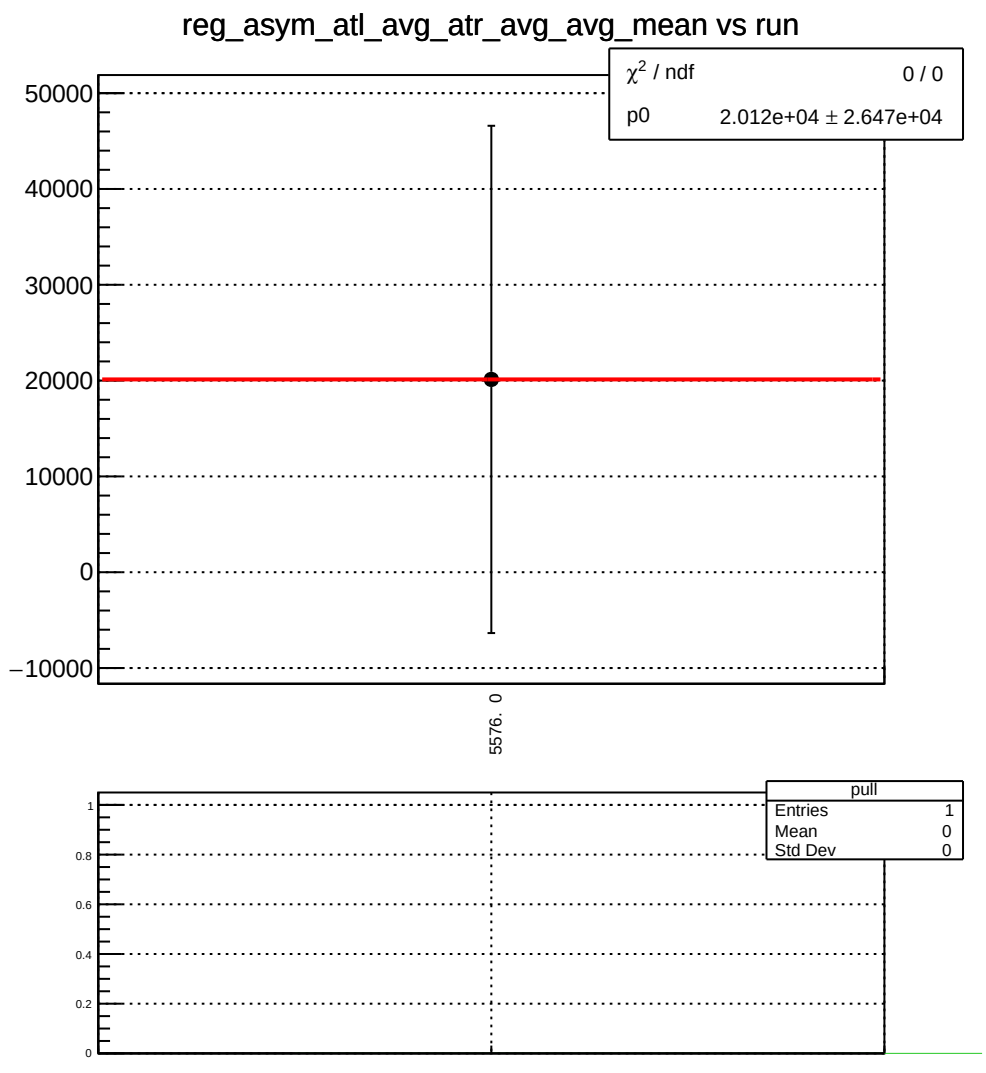
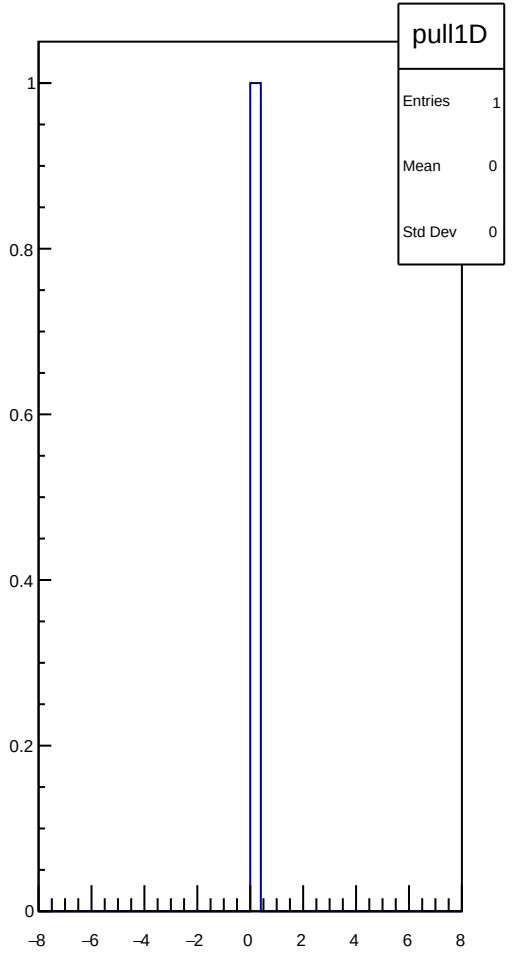
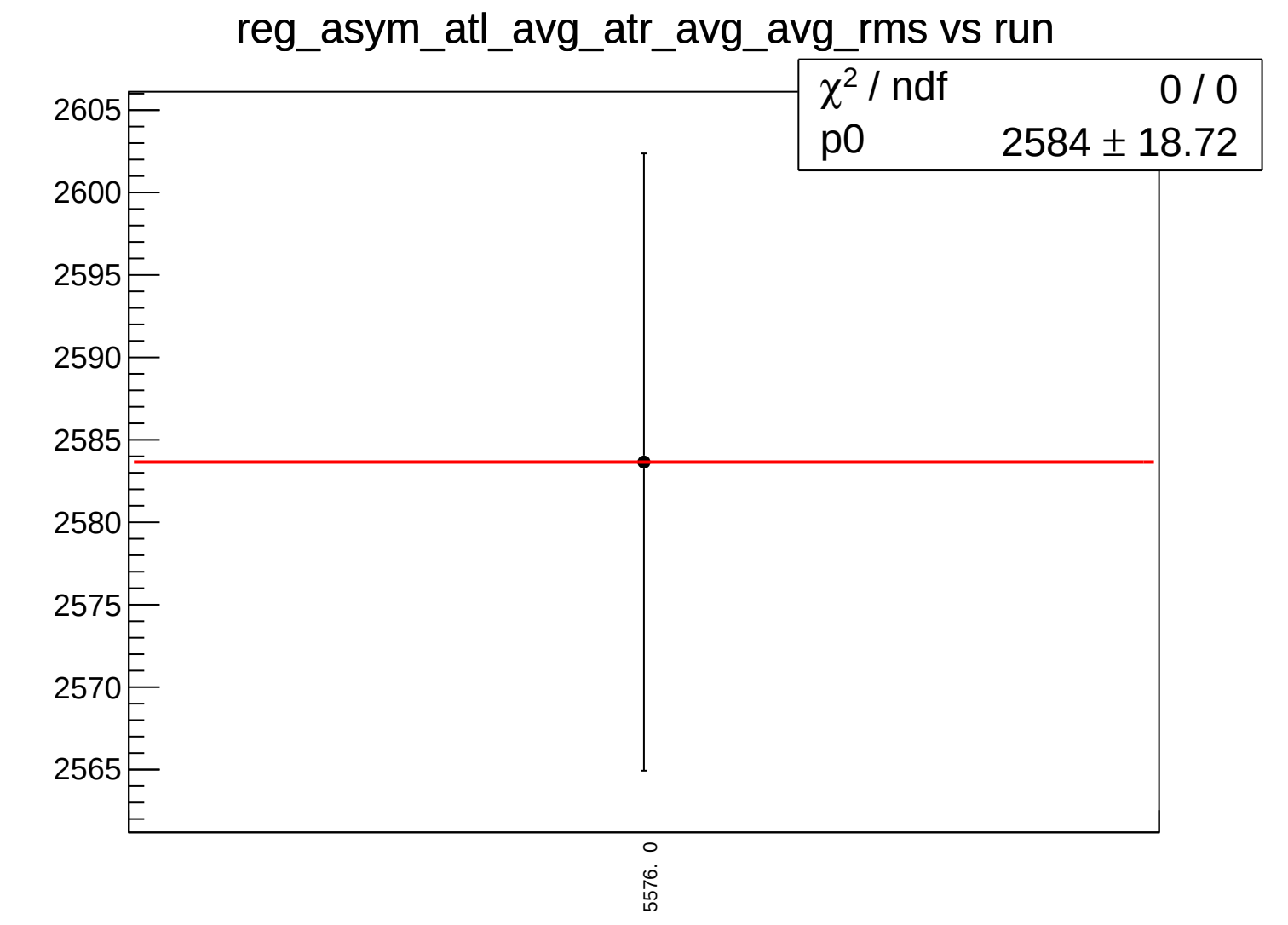
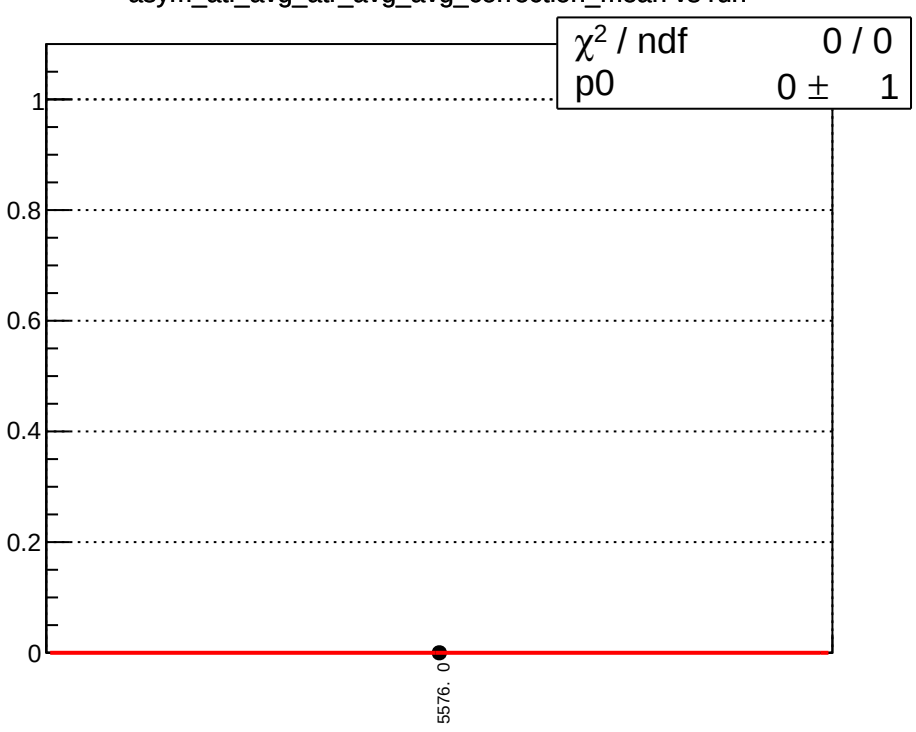
0
2
4
6
8

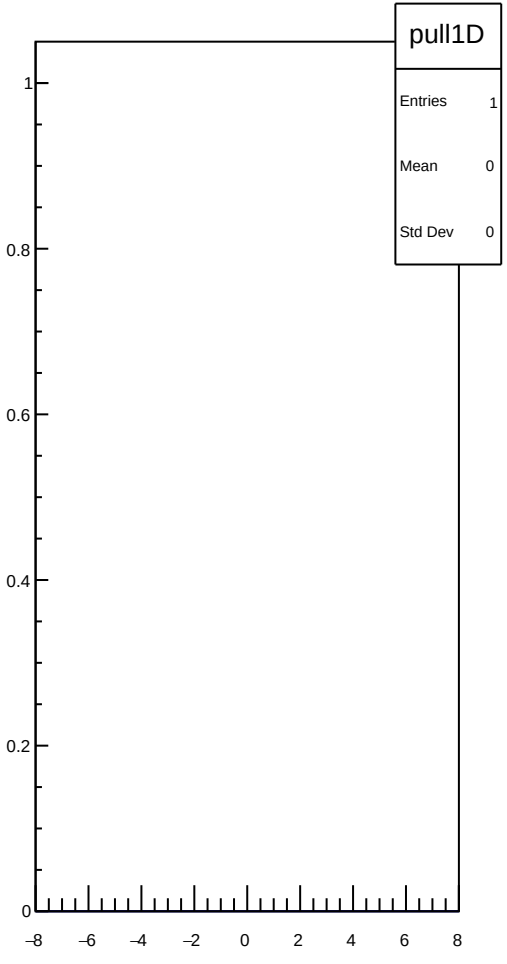

asym_atr1l2_dd_rms vs run
χ² / ndf 0 / 0
p0 2708 ± 19.62
2730
2725
2720
2715
2710
2705
2700
2695
2690
2685
5576. 0

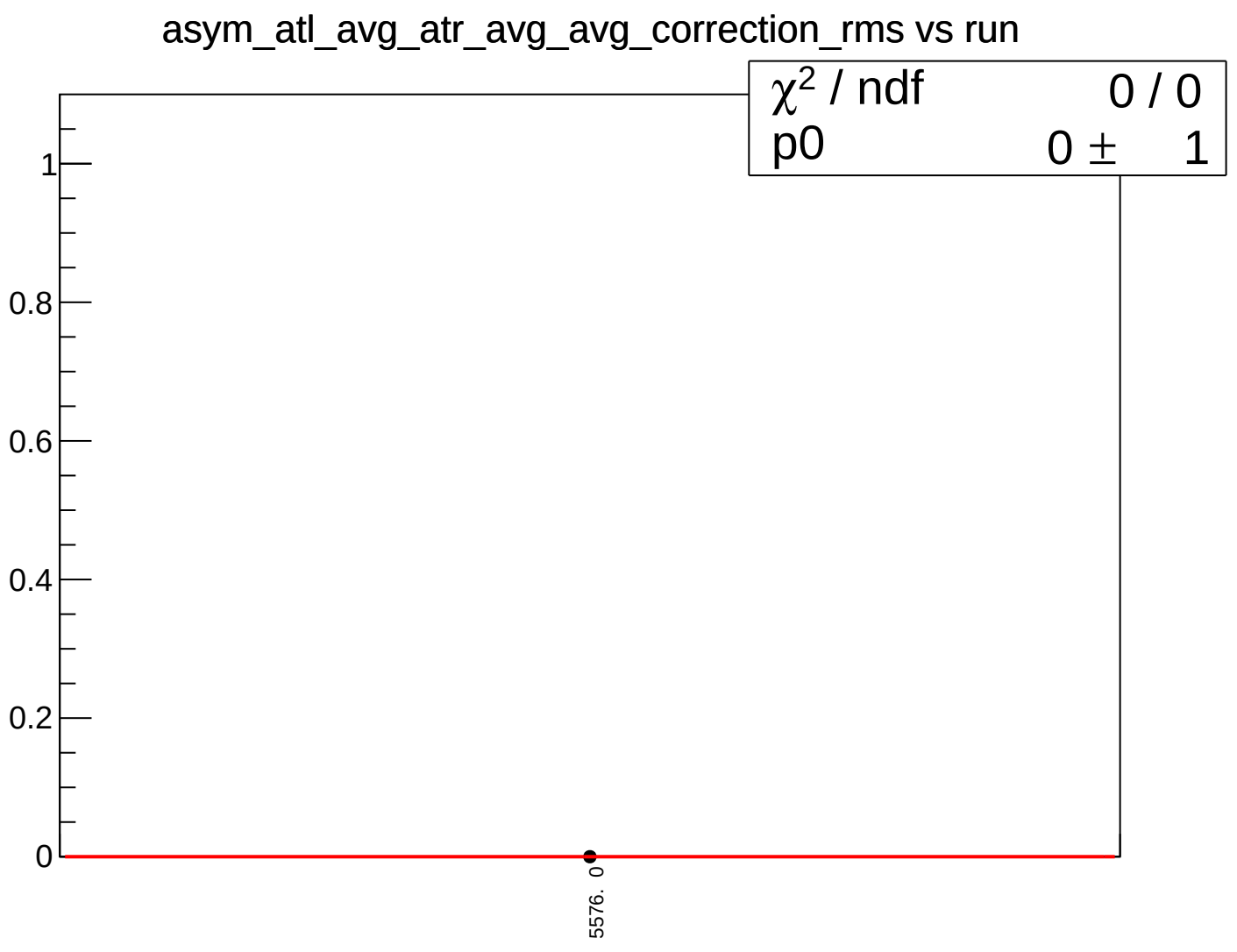

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 0 / 0
p0 2.012e+04 ± 2.647e+04
50000
40000
30000
20000
10000
0
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

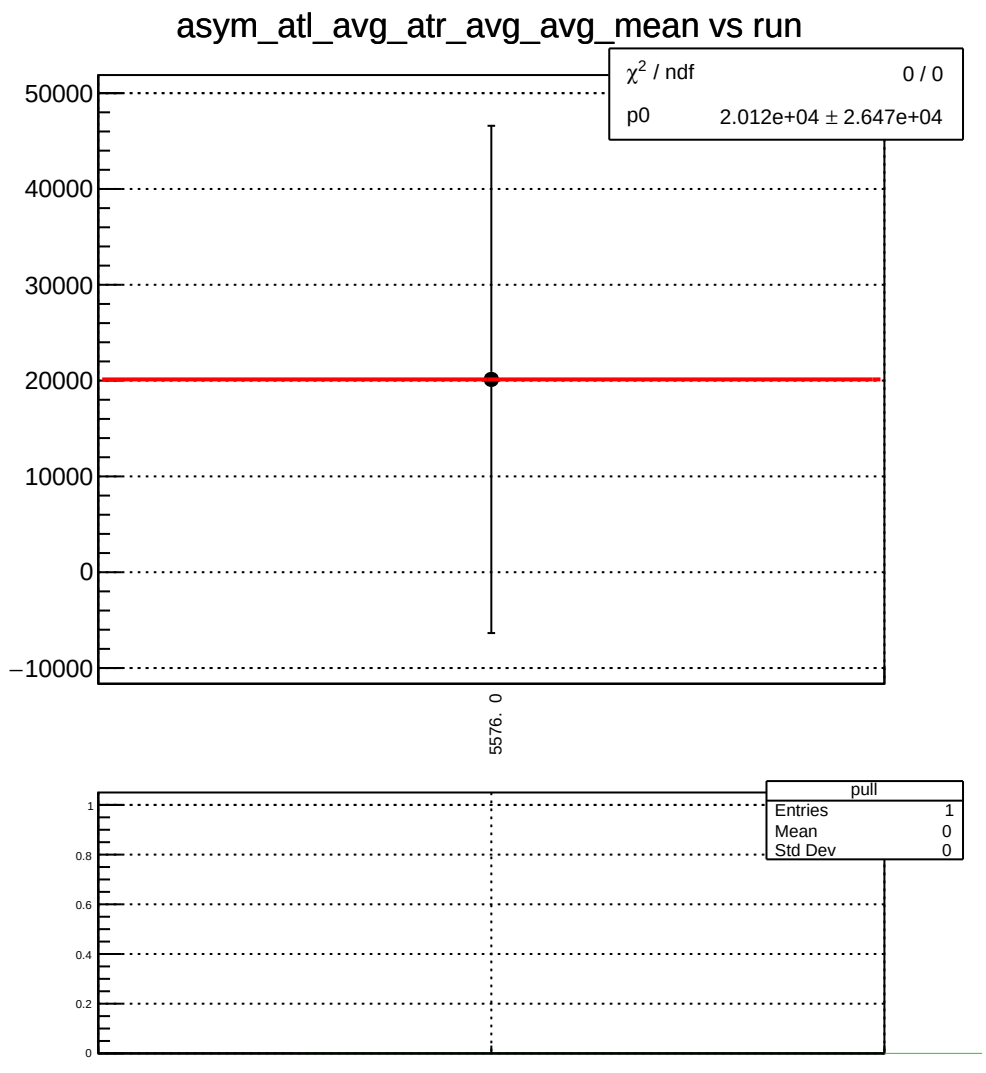

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

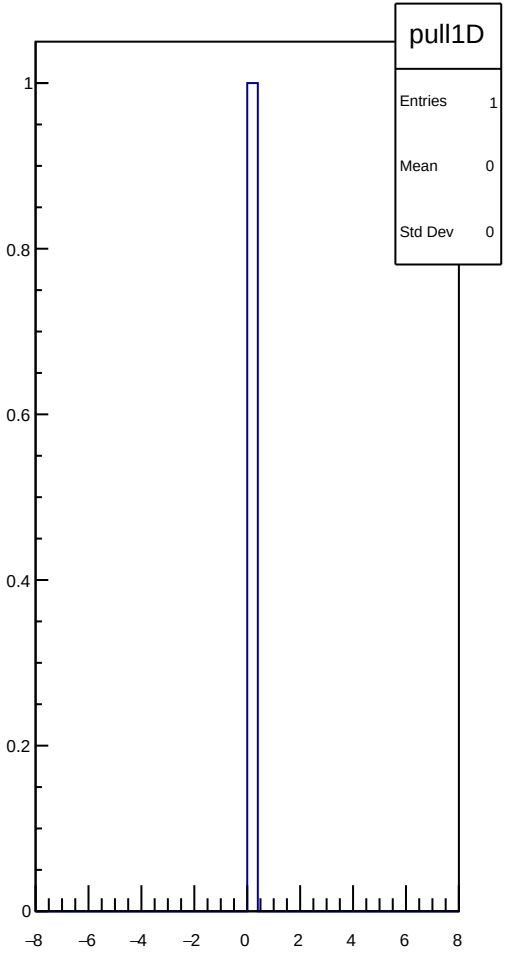

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 0 / 0
p0 2584 ± 18.72
2605
2600
2595
2590
2585
2580
2575
2570
2565
5576. 0


asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0


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


asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0


asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 0 / 0
p0 2.012e+04 ± 2.647e+04
50000
40000
30000
20000
10000
0
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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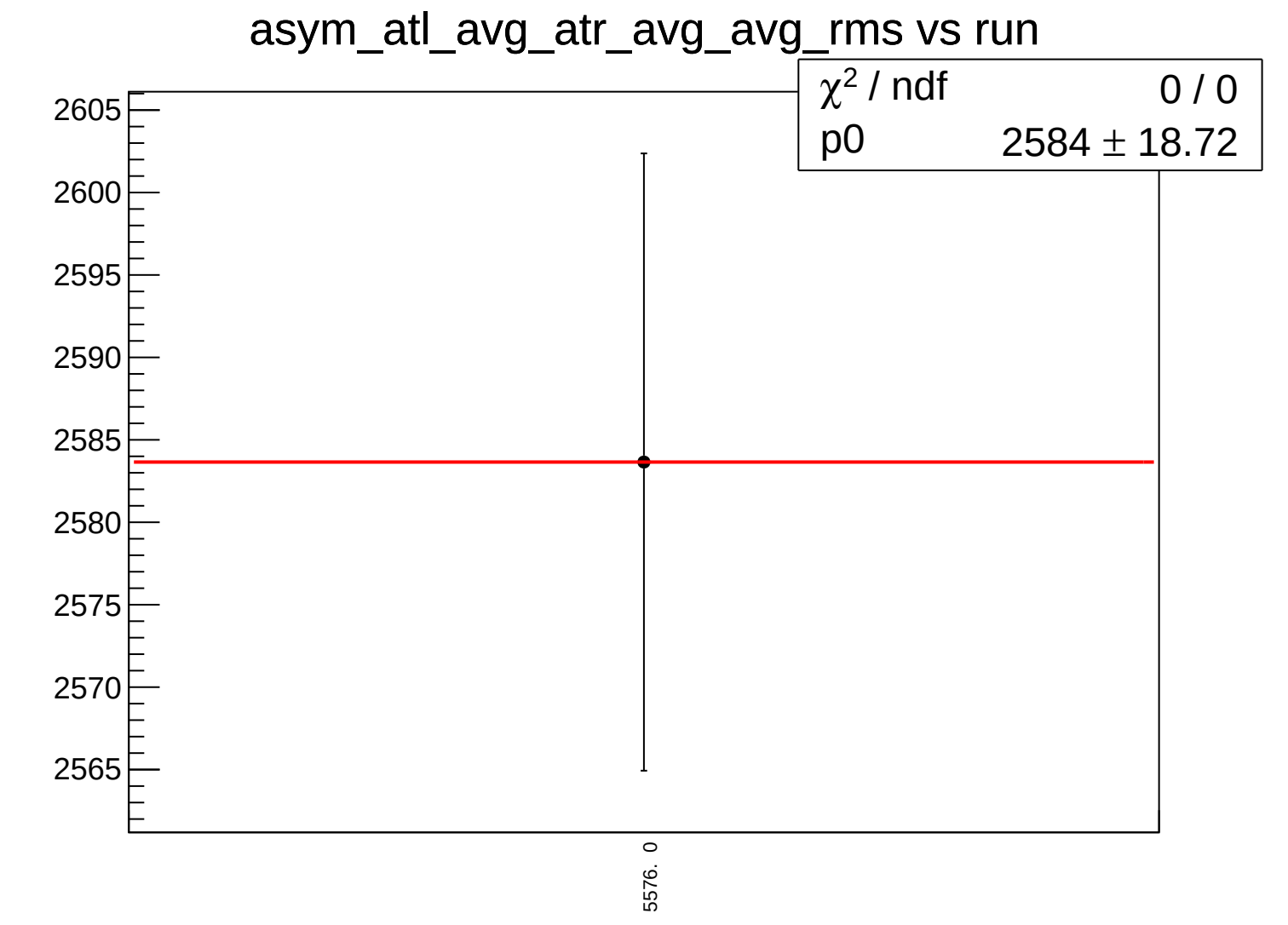
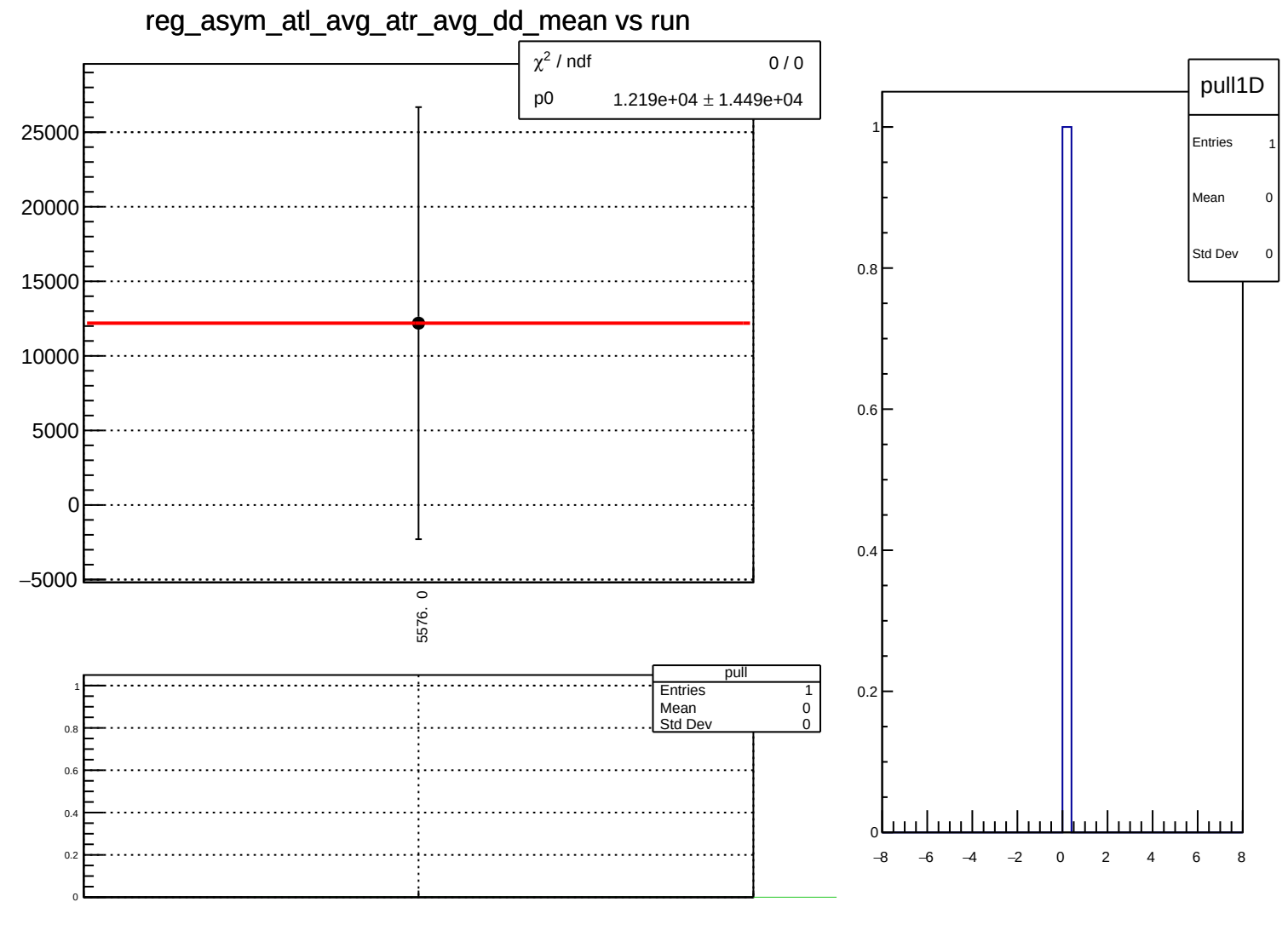
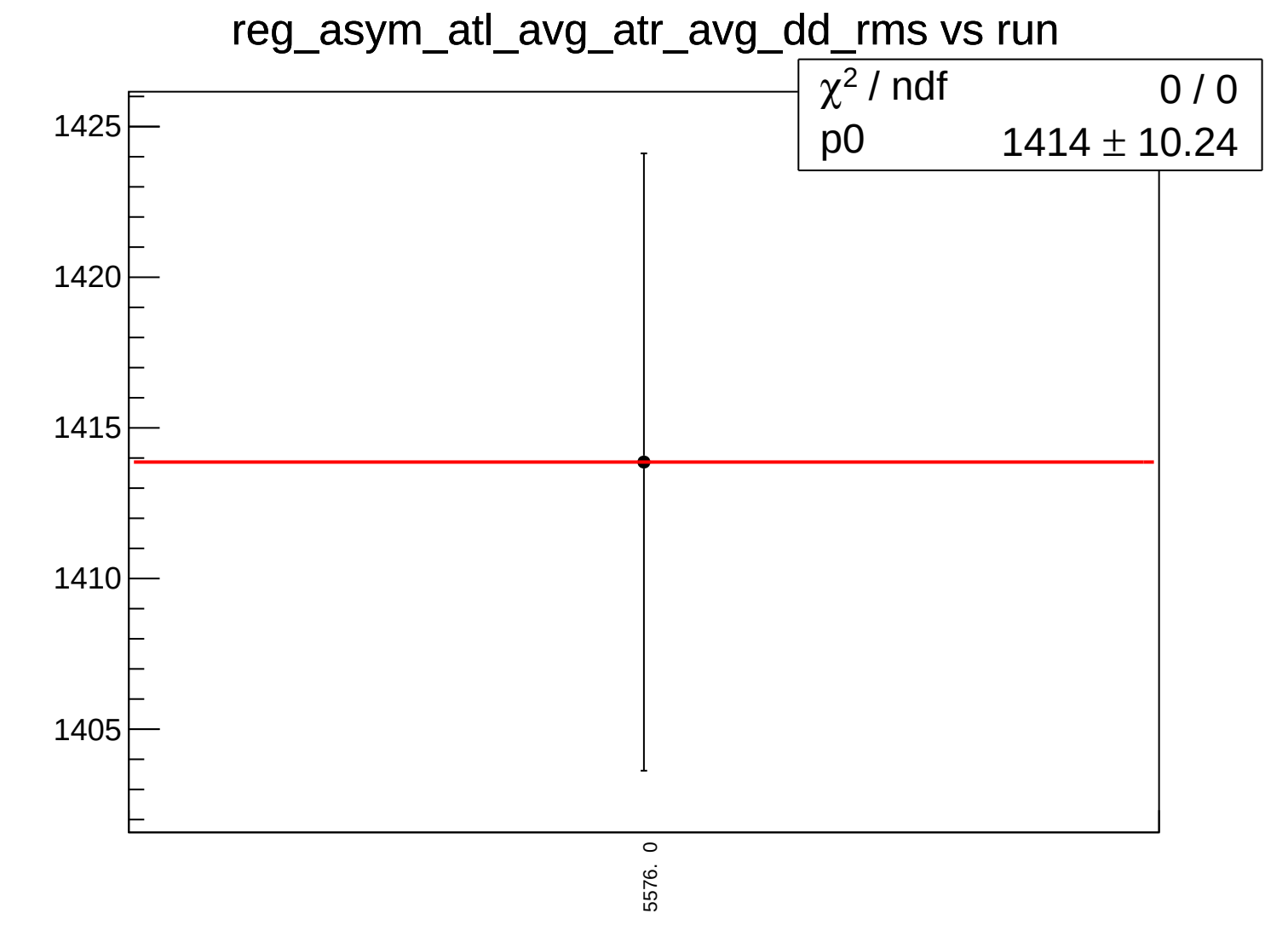
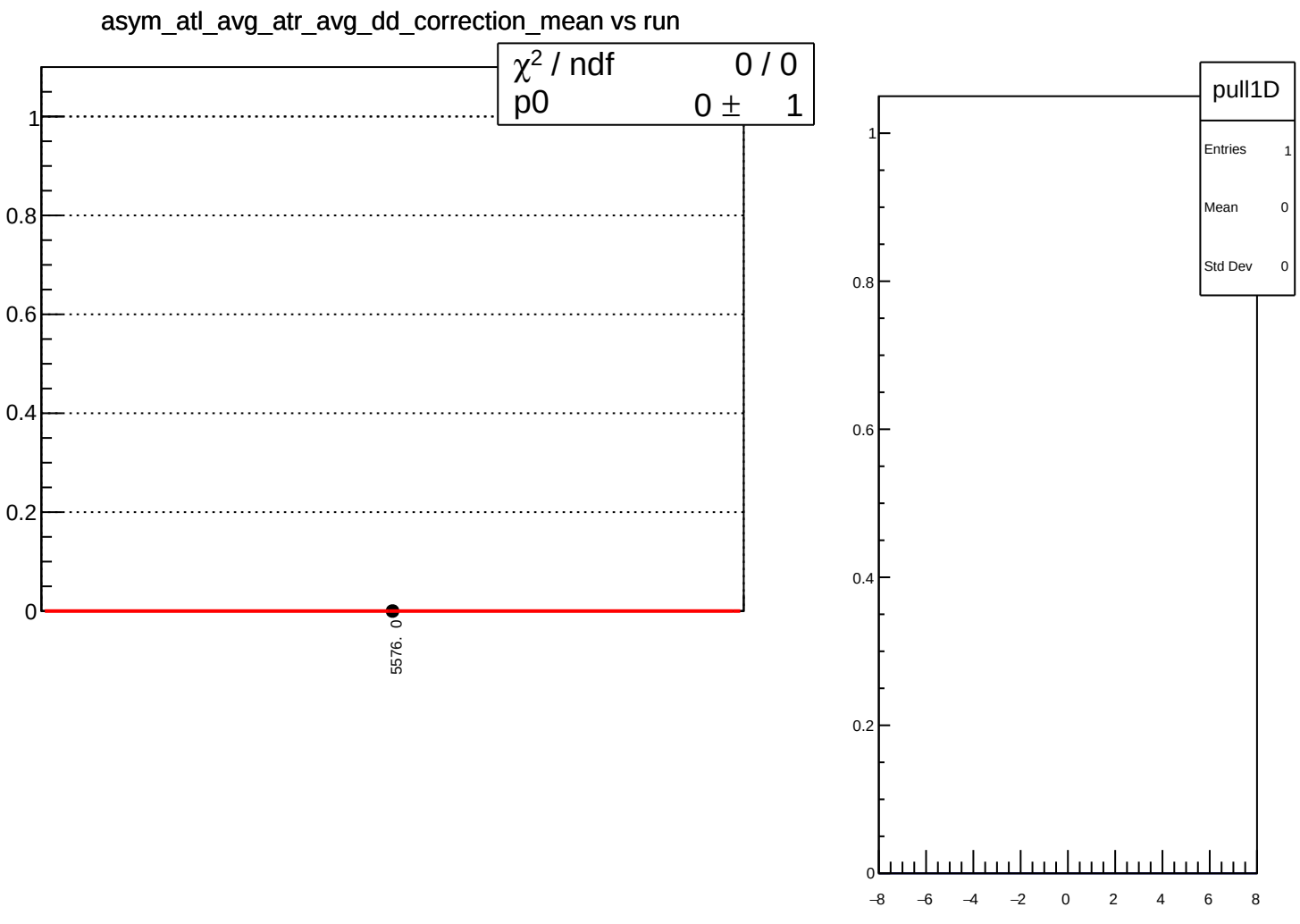
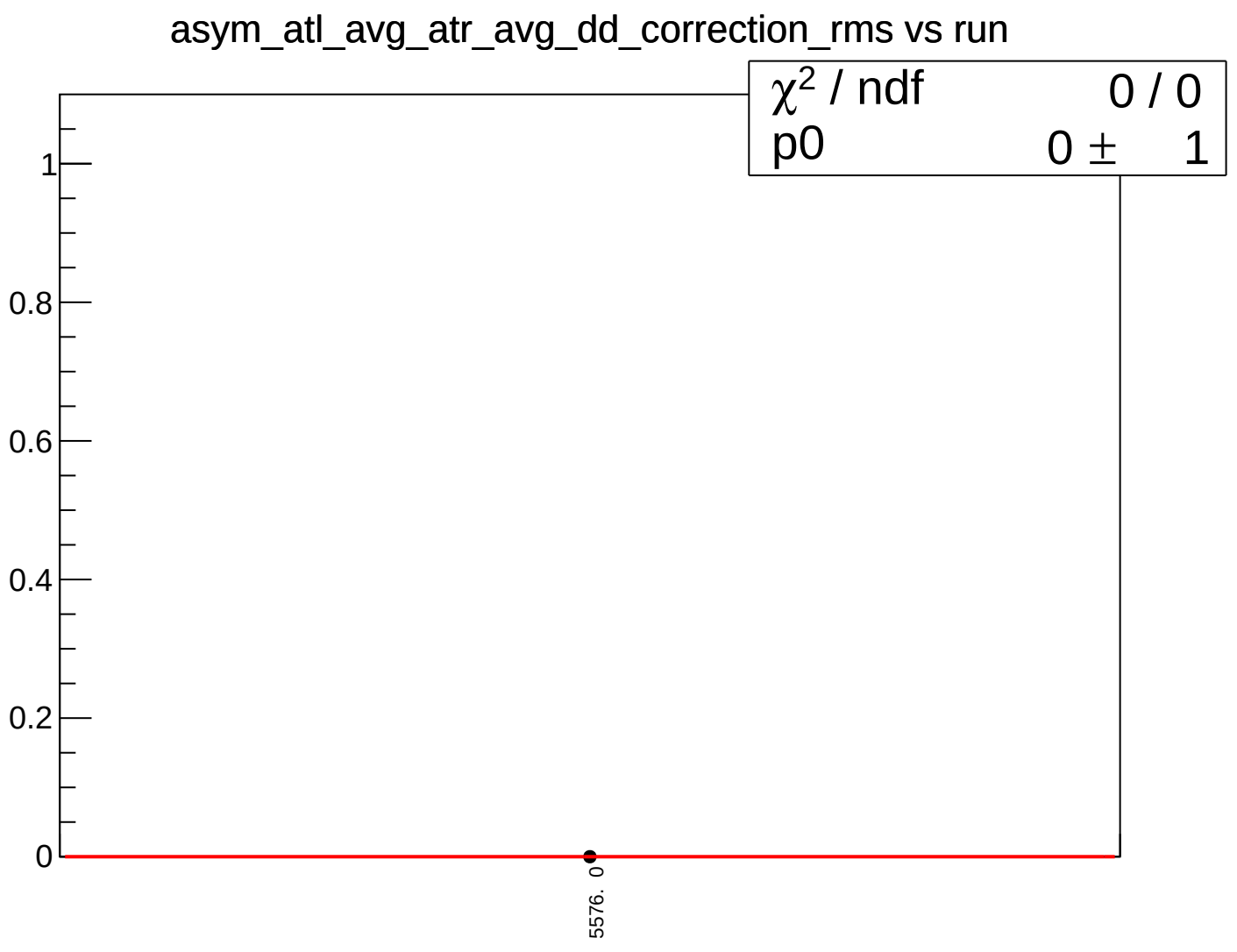
0
2
4
6
8

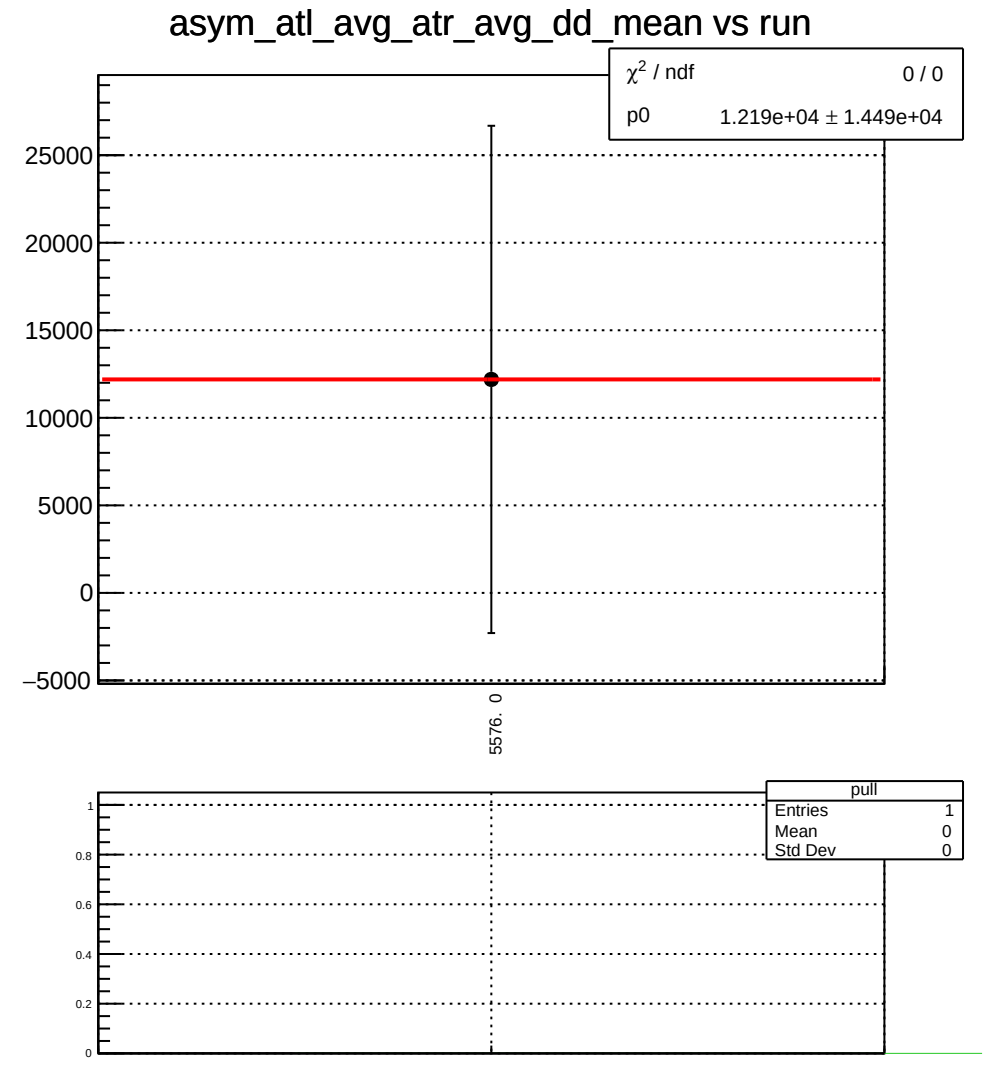

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 0 / 0
p0 2584 ± 18.72
2605
2600
2595
2590
2585
2580
2575
2570
2565
5576. 0

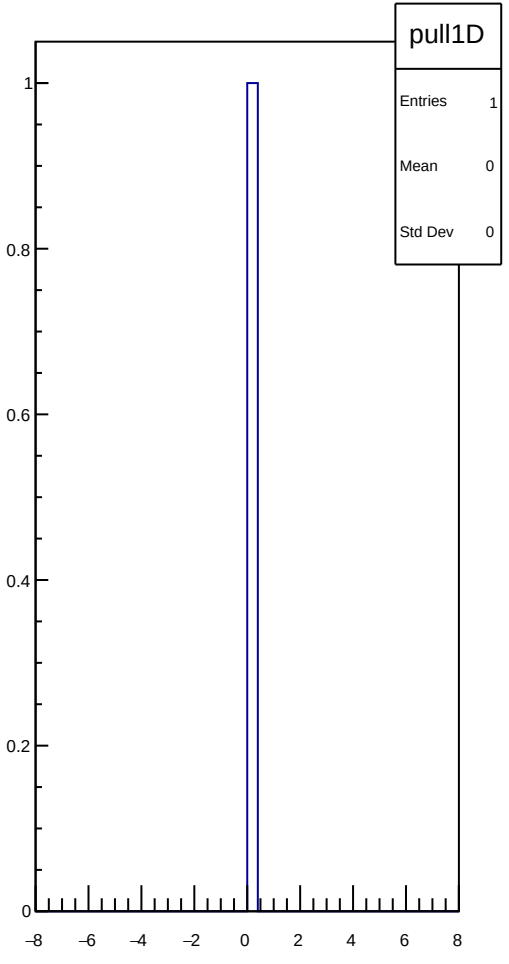

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 0 / 0
p0 1.219e+04 ± 1.449e+04
25000
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

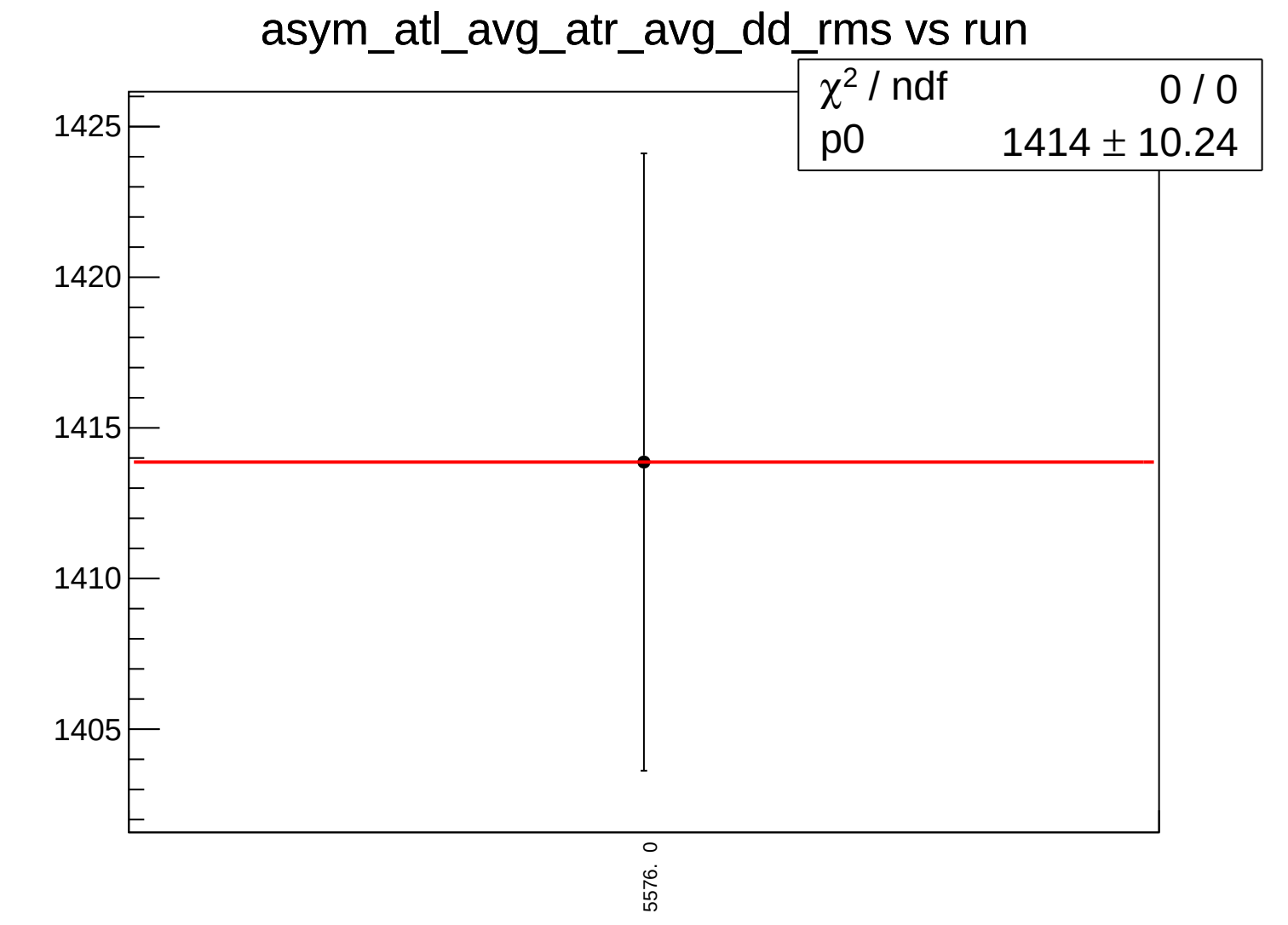

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 0 / 0
p0 1414 ± 10.24
1425
1420
1415
1410
1405
5576. 0

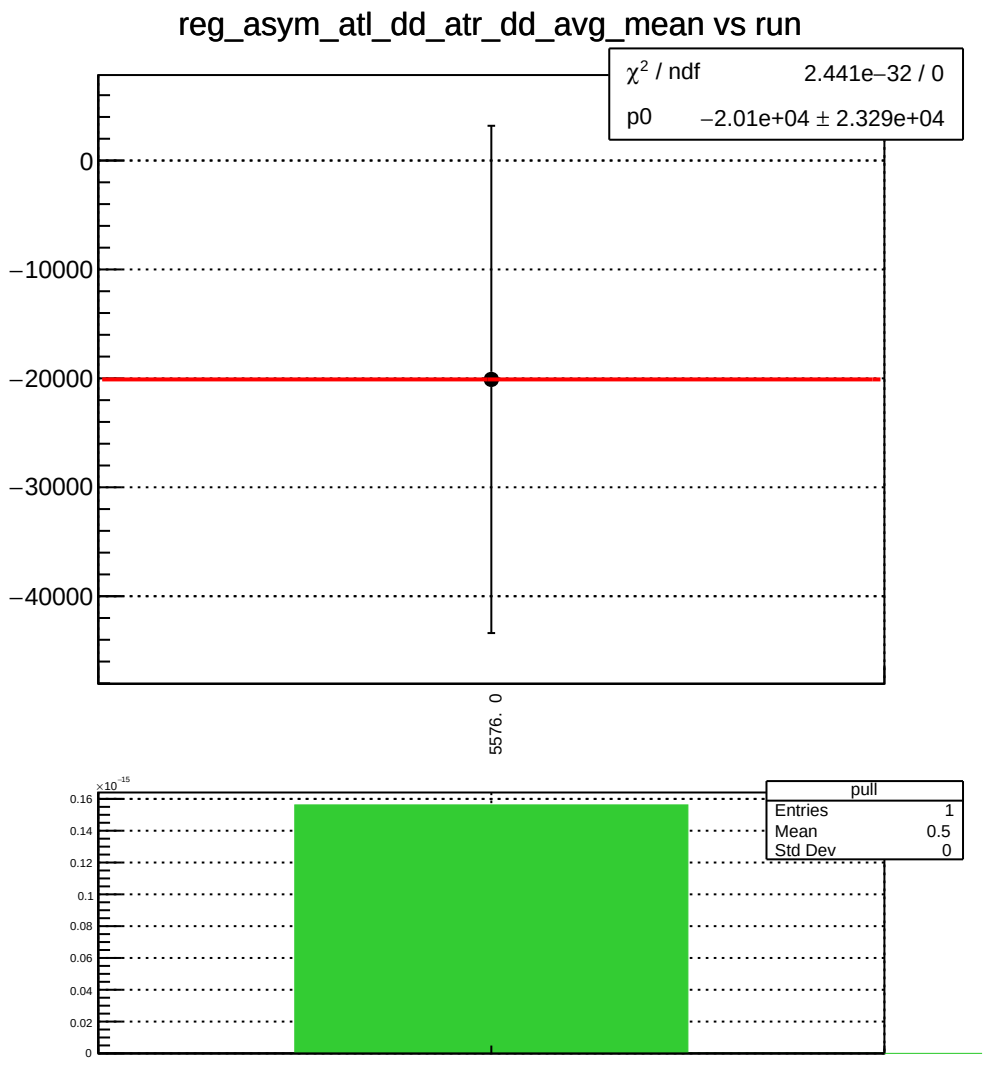

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

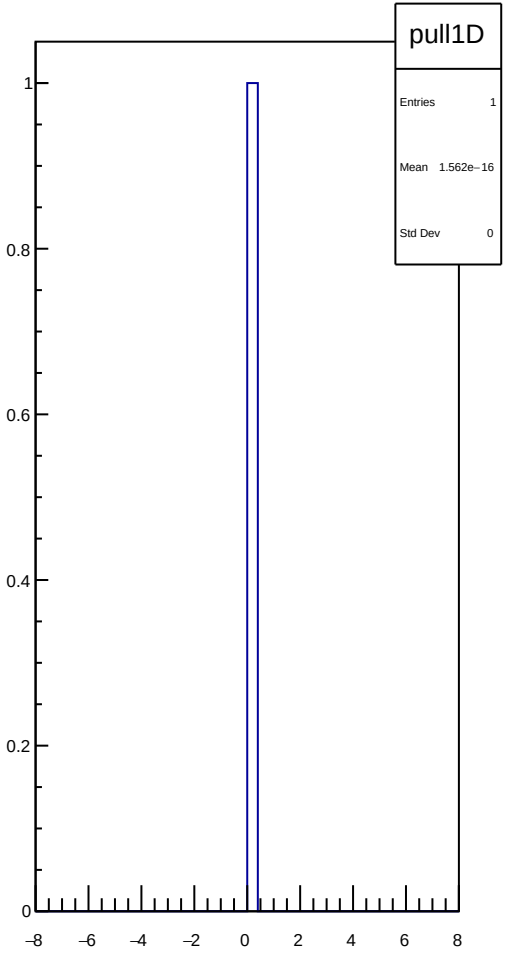

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0

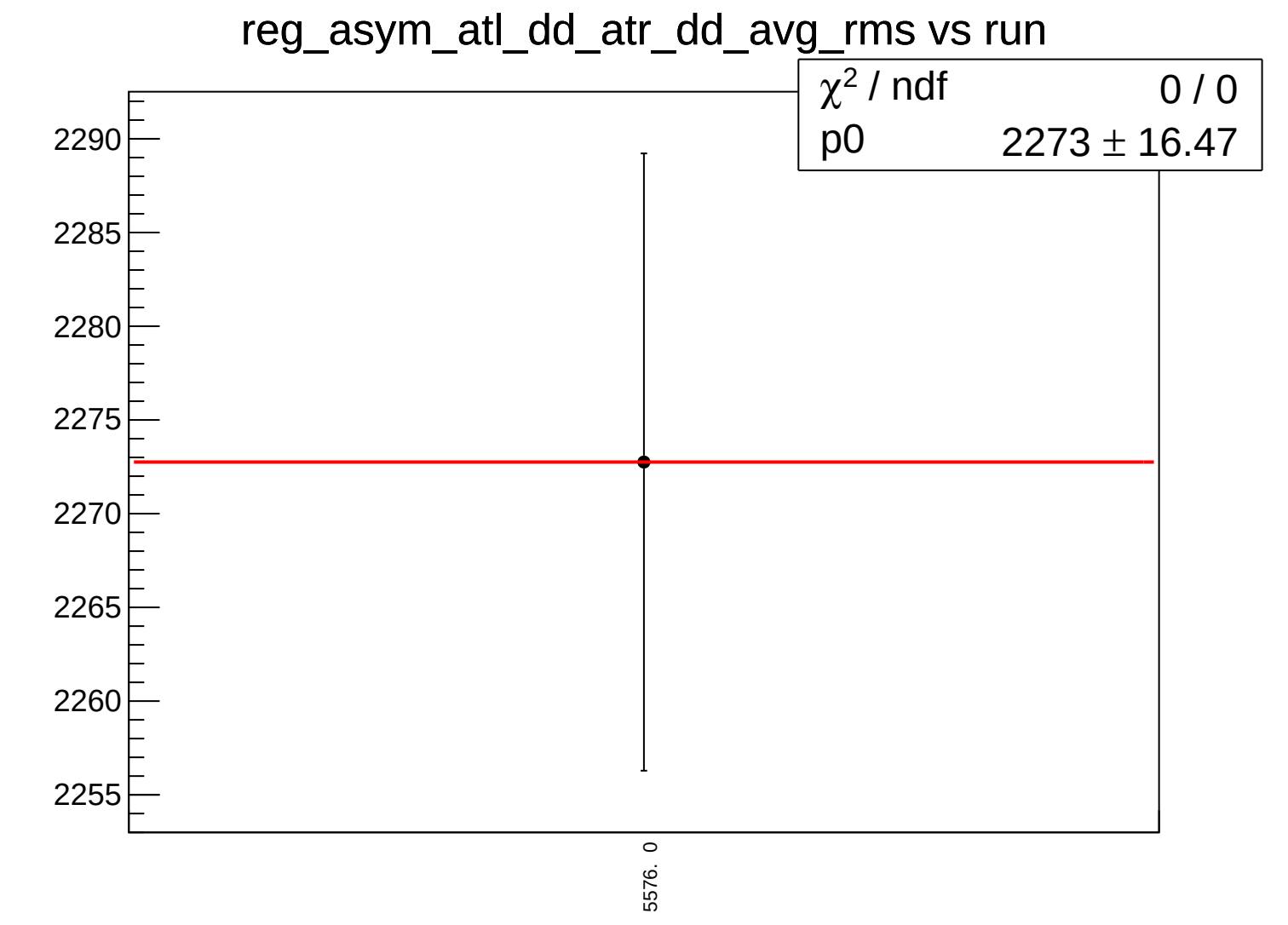

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 0 / 0
p0 1.219e+04 ± 1.449e+04
25000
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

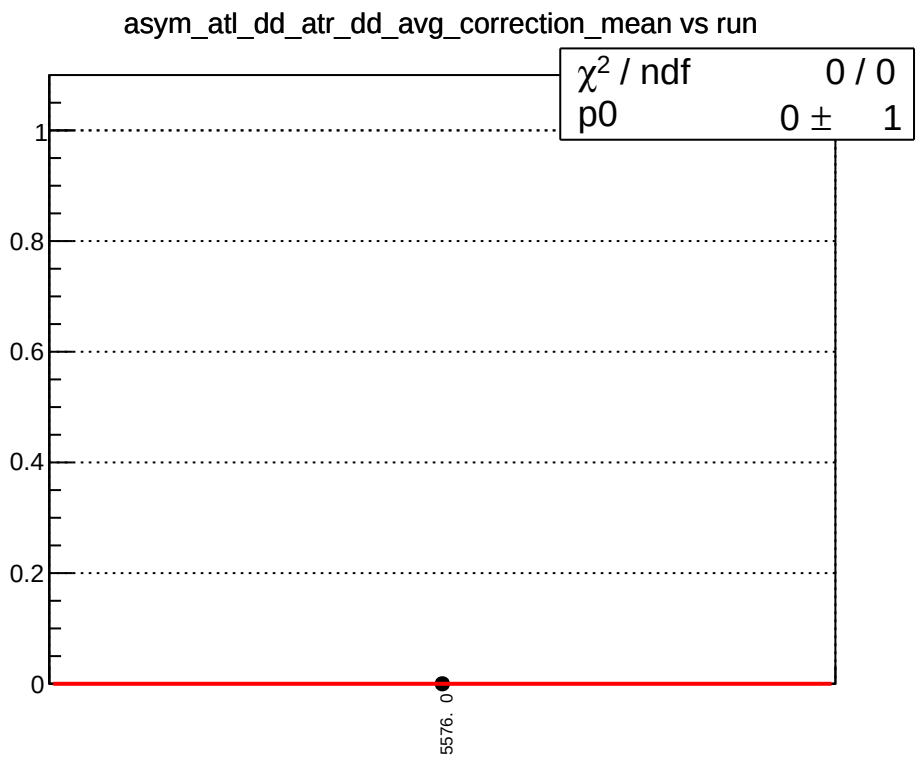

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

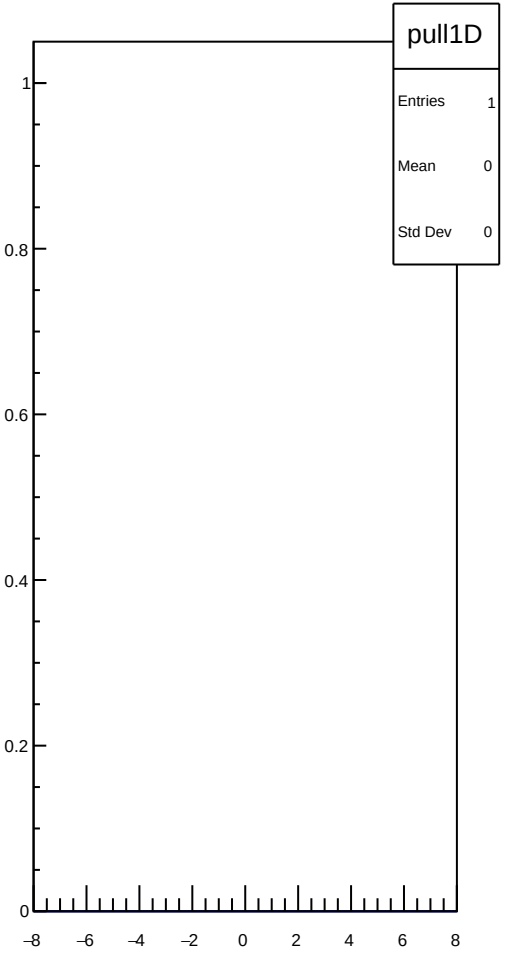

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 0 / 0
p0 1414 ± 10.24
1425
1420
1415
1410
1405
5576. 0

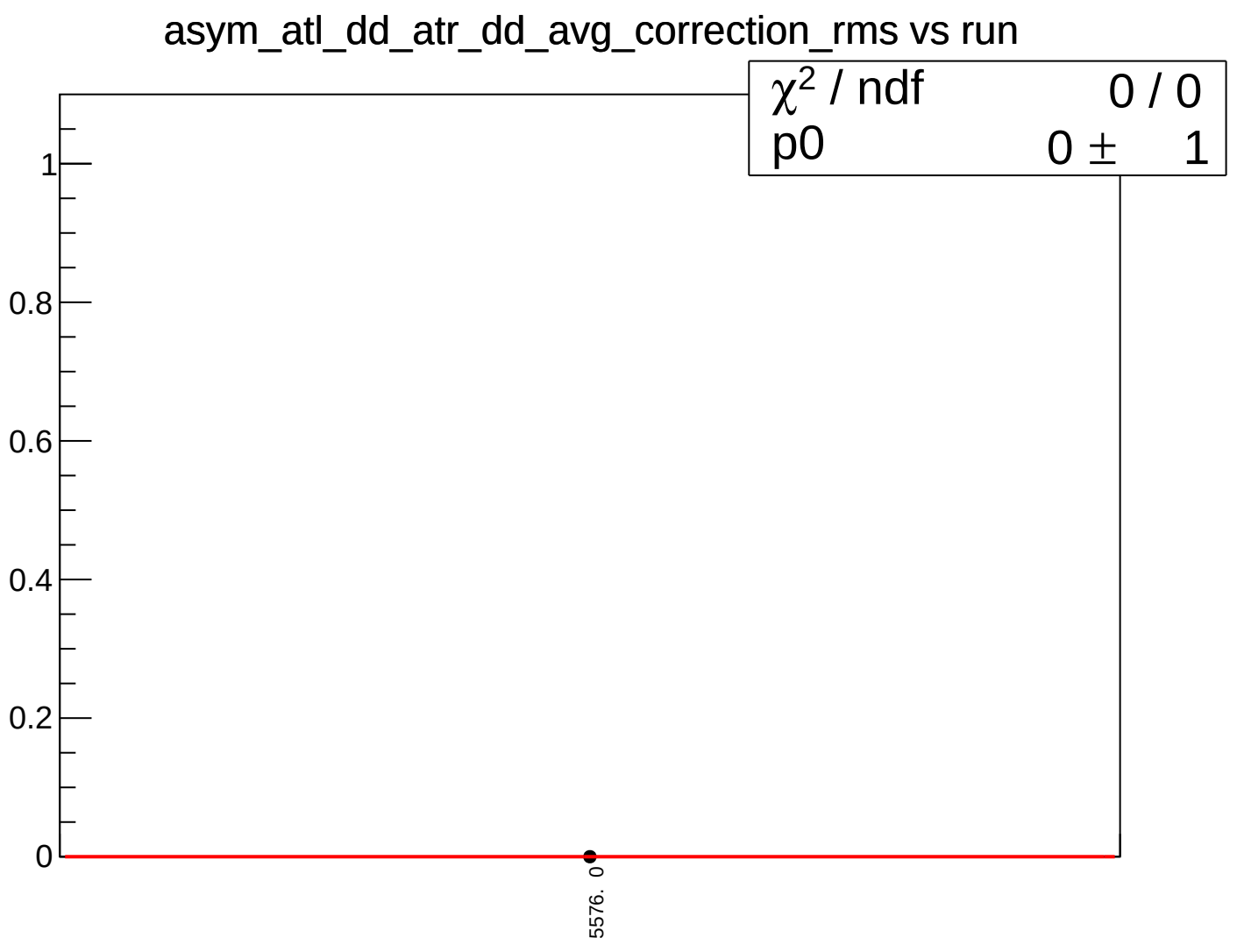

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 2.441e−32 / 0
p0 −2.01e+04 ± 2.329e+04
0
−10000
−20000
−30000
−40000
5576. 0
×10⁻¹⁵
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

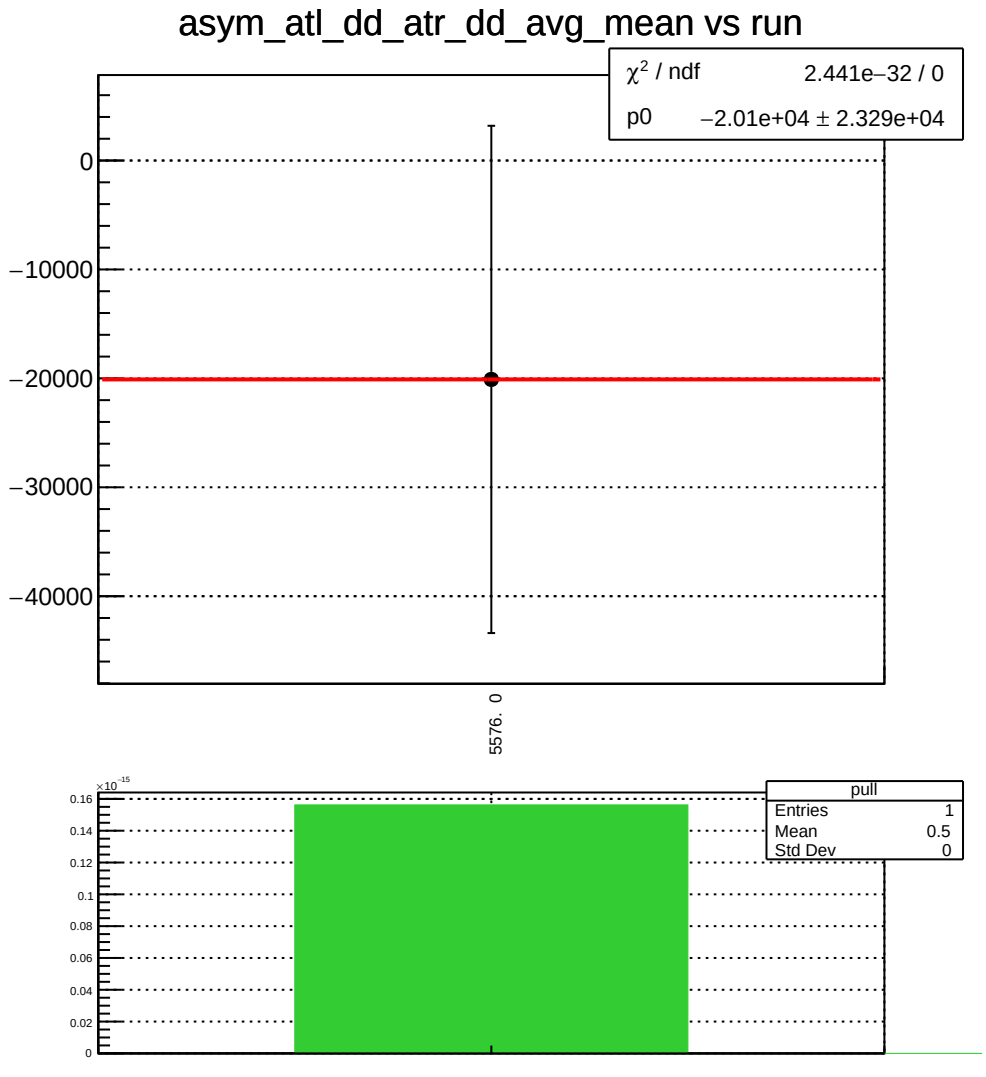

pull1D
Entries 1
Mean 1.562e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

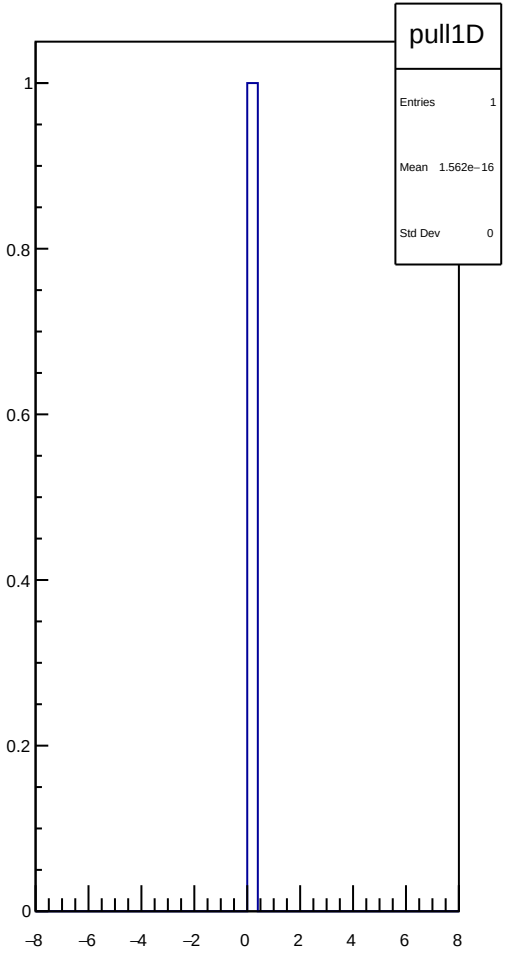

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 0 / 0
p0 2273 ± 16.47
2290
2285
2280
2275
2270
2265
2260
2255
5576. 0

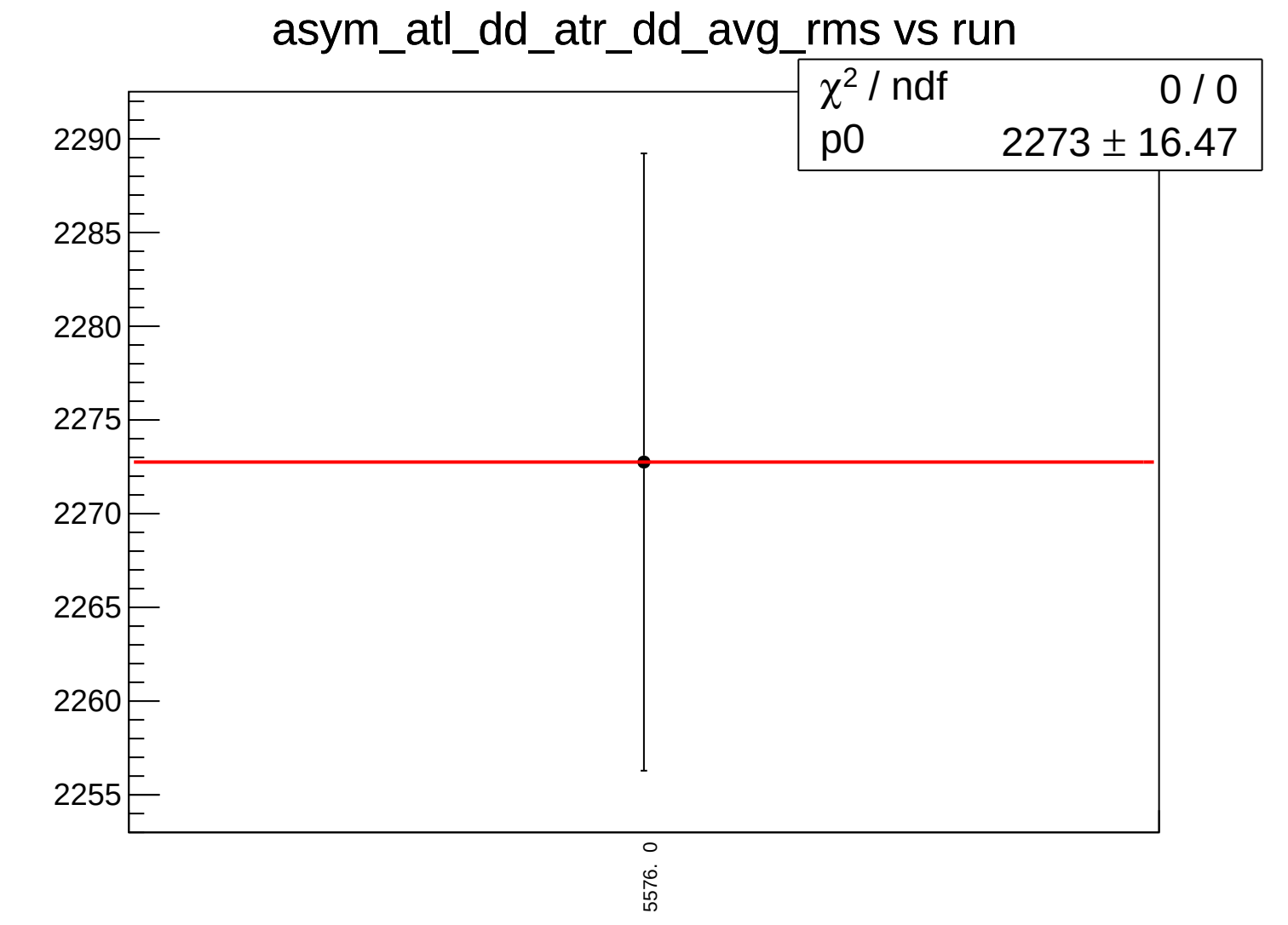

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0

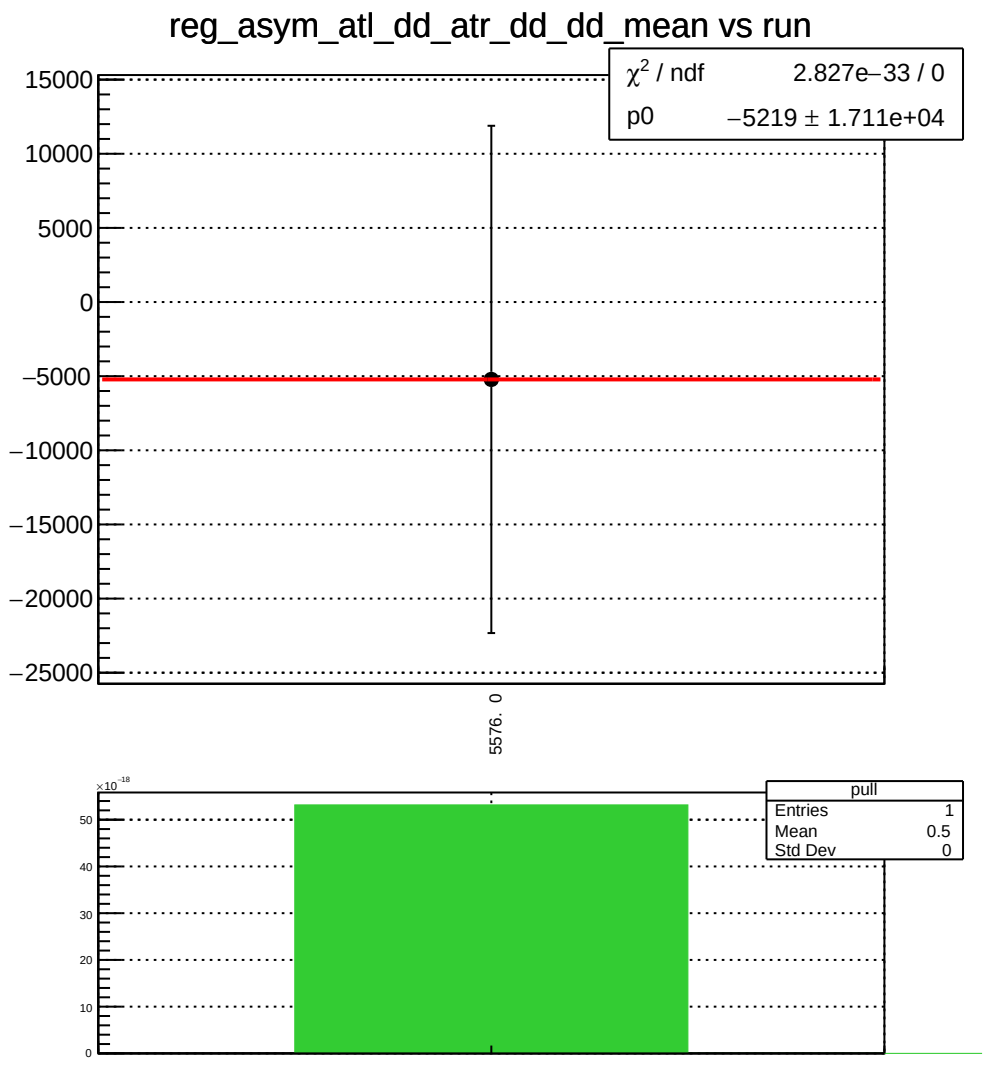

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

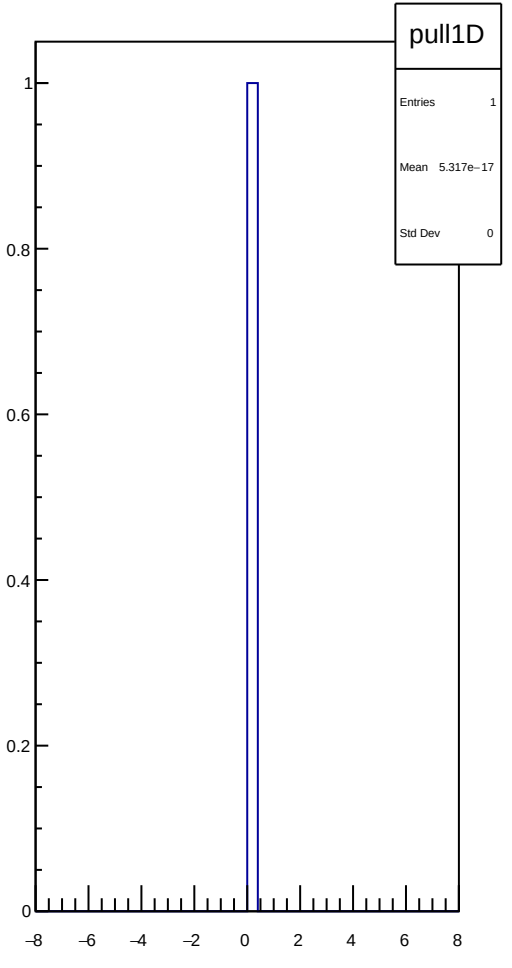

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0

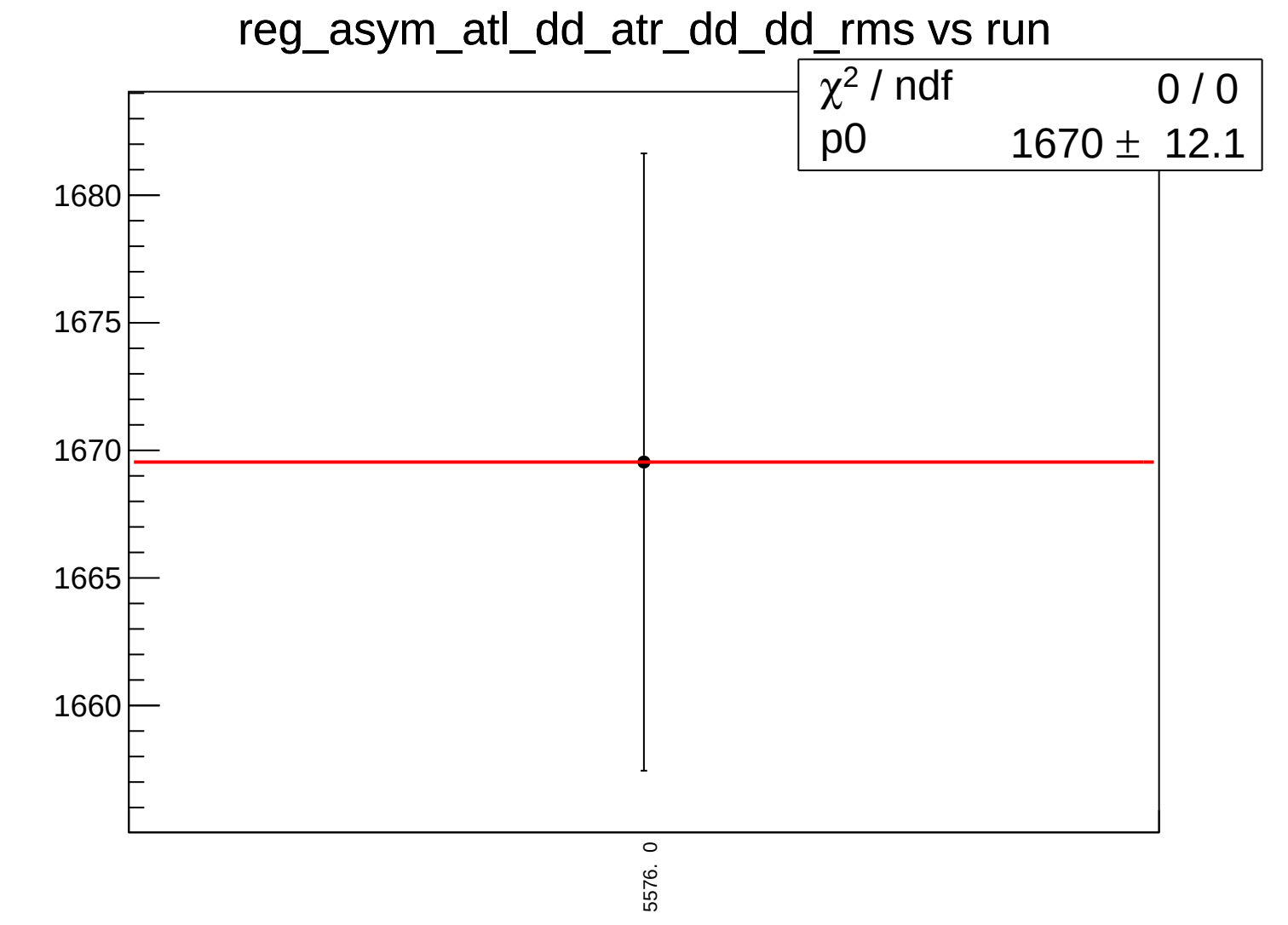

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 2.441e−32 / 0
p0 −2.01e+04 ± 2.329e+04
0
−10000
−20000
−30000
−40000
5576. 0
×10⁻¹⁵
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

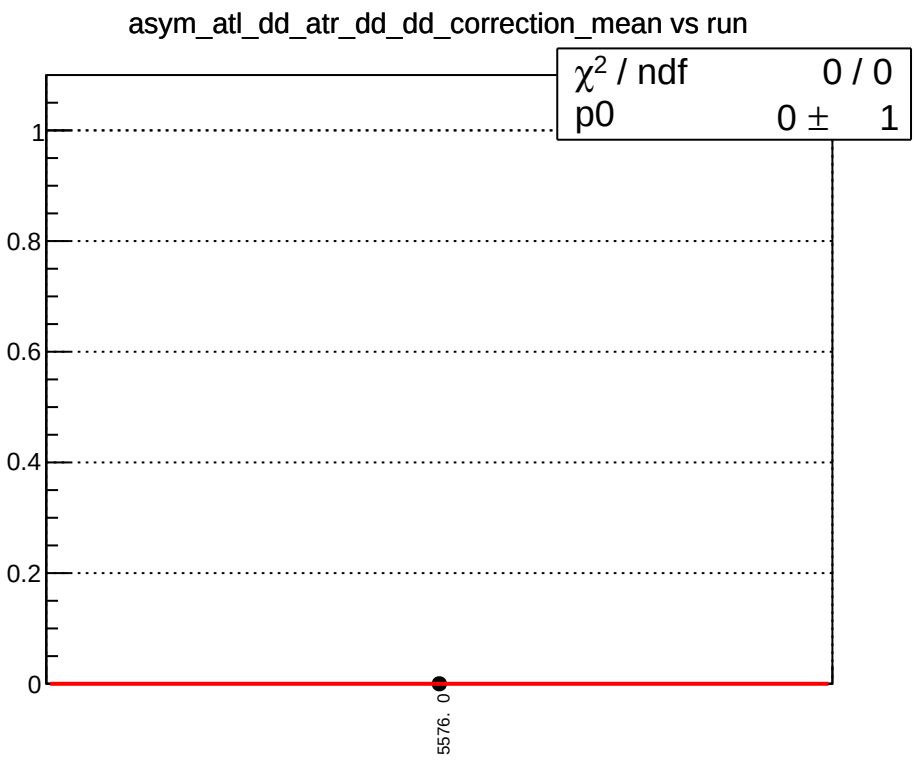

pull1D
Entries 1
Mean 1.562e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

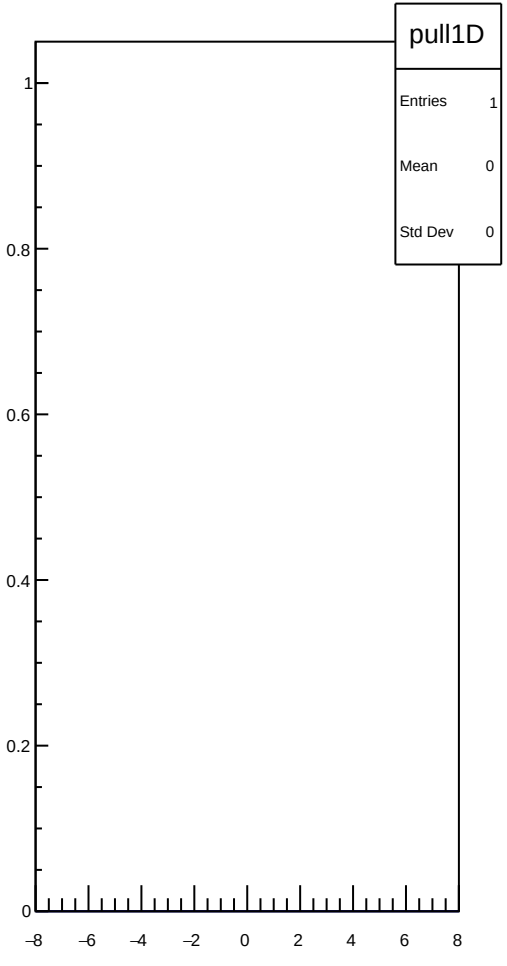

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 0 / 0
p0 2273 ± 16.47
2290
2285
2280
2275
2270
2265
2260
2255
5576. 0

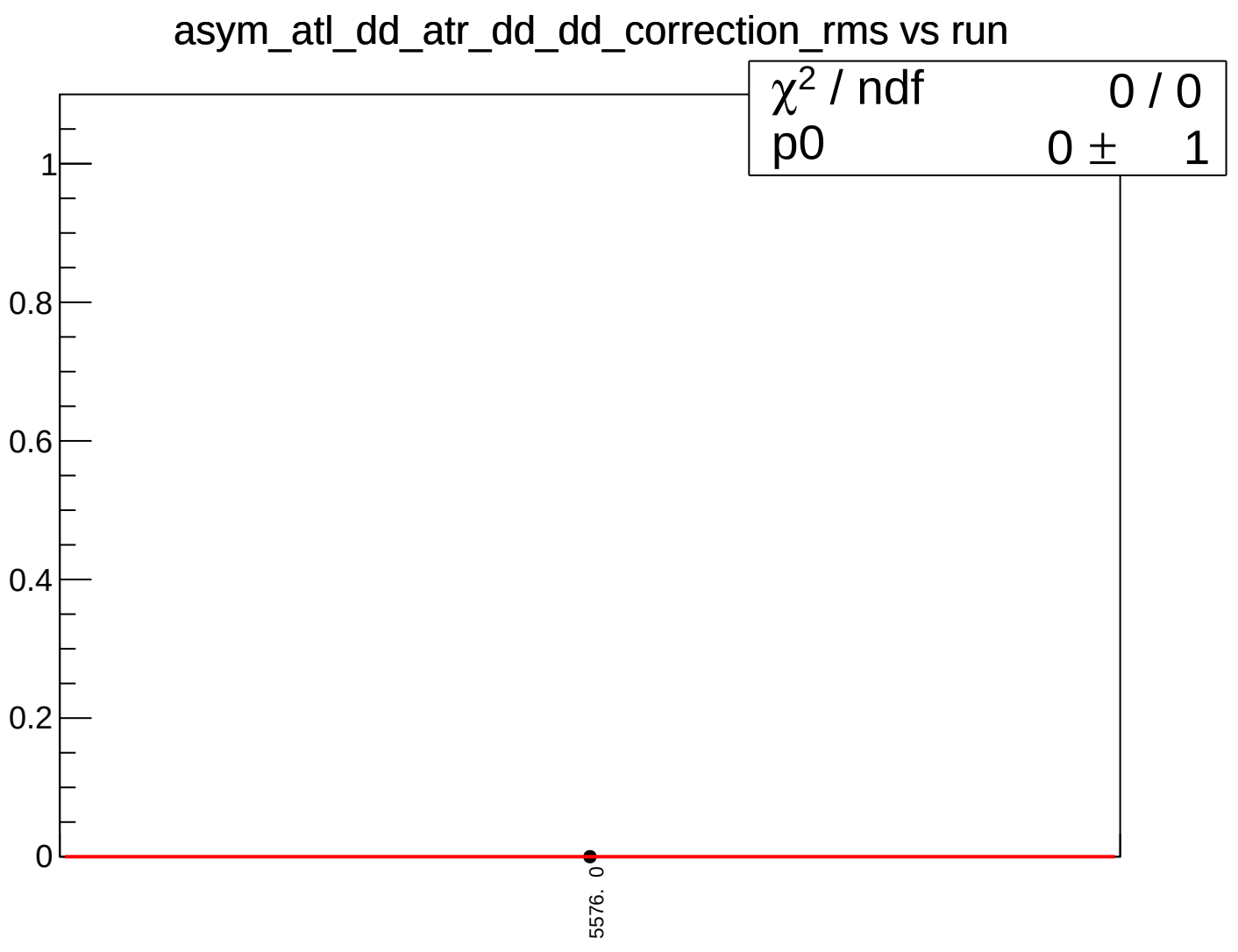

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 2.827e−33 / 0
p0 −5219 ± 1.711e+04
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

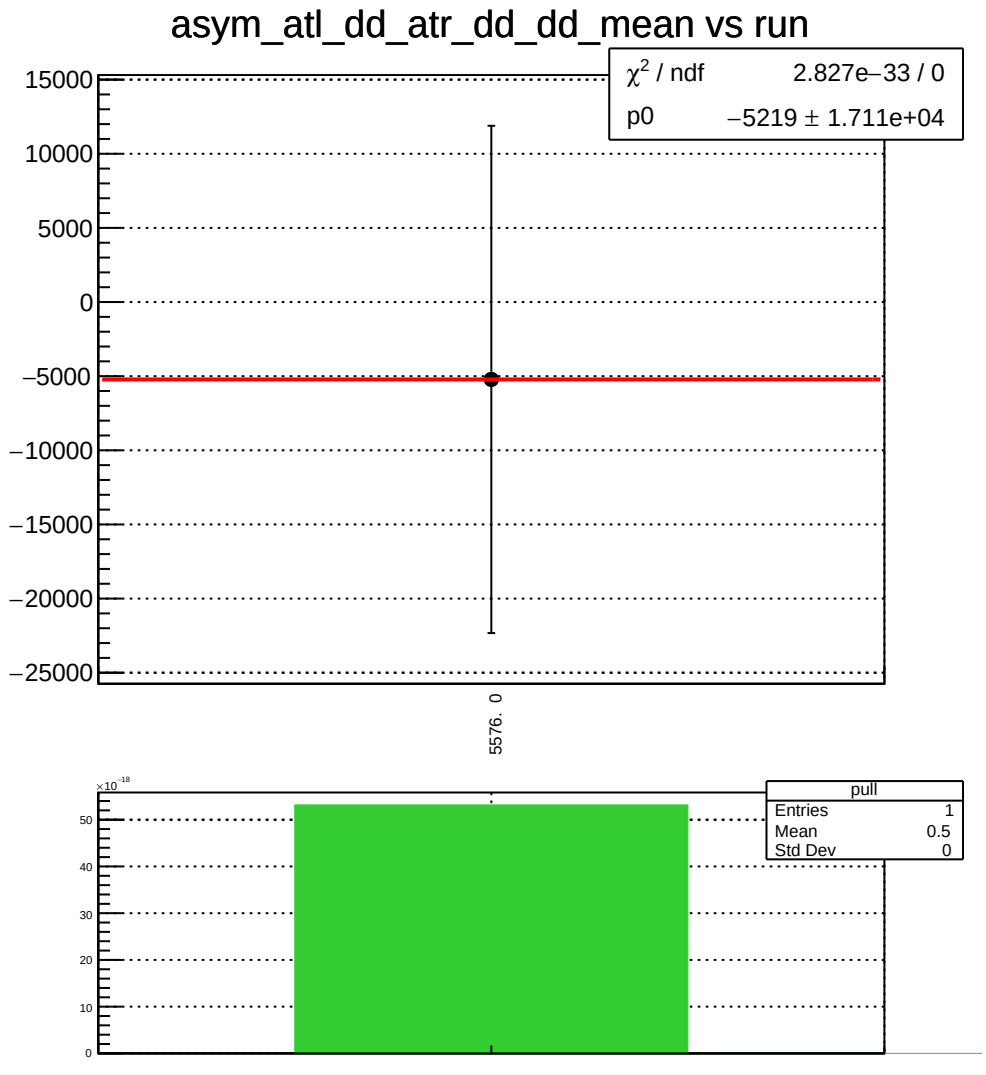

pull1D
Entries 1
Mean 5.317e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

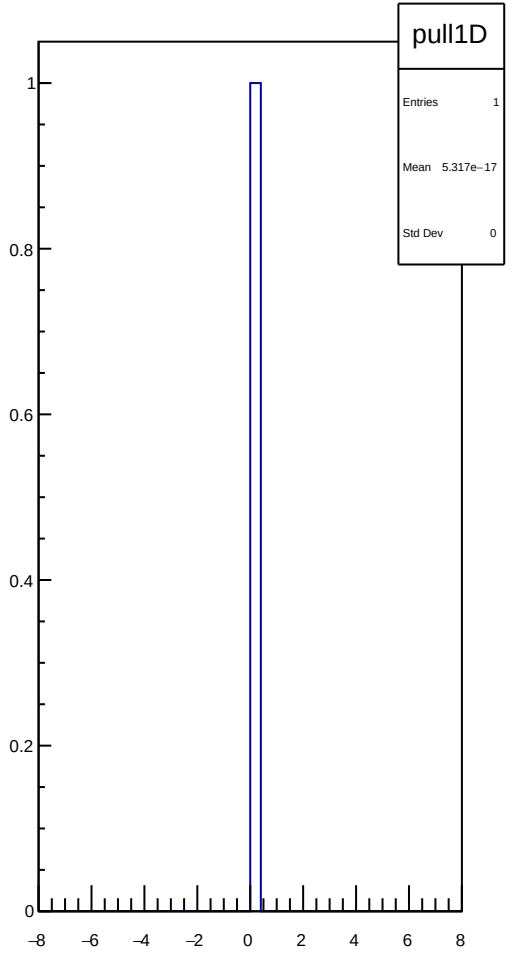

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 0 / 0
p0 1670 ± 12.1
1680
1675
1670
1665
1660
5576. 0

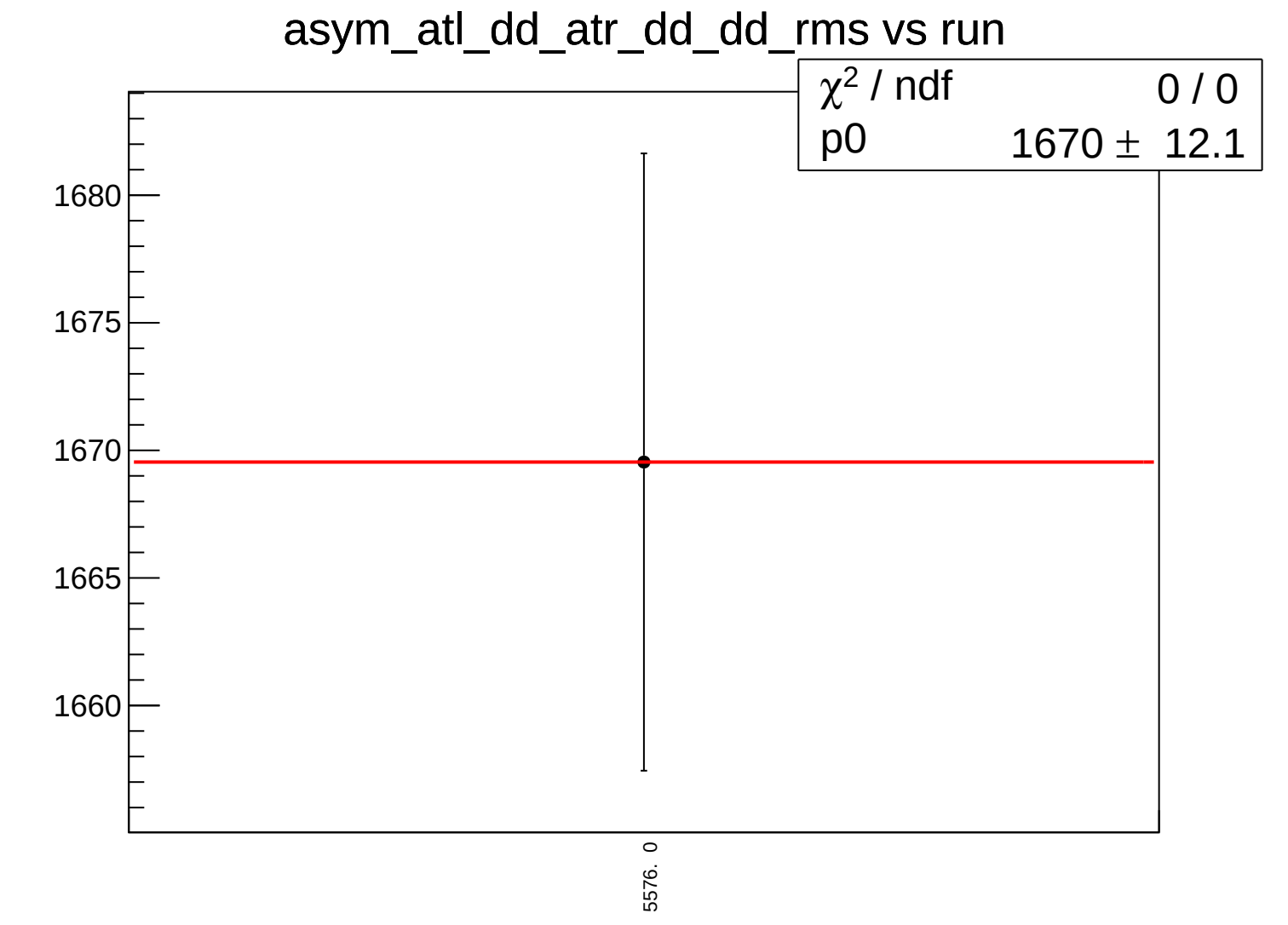

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0

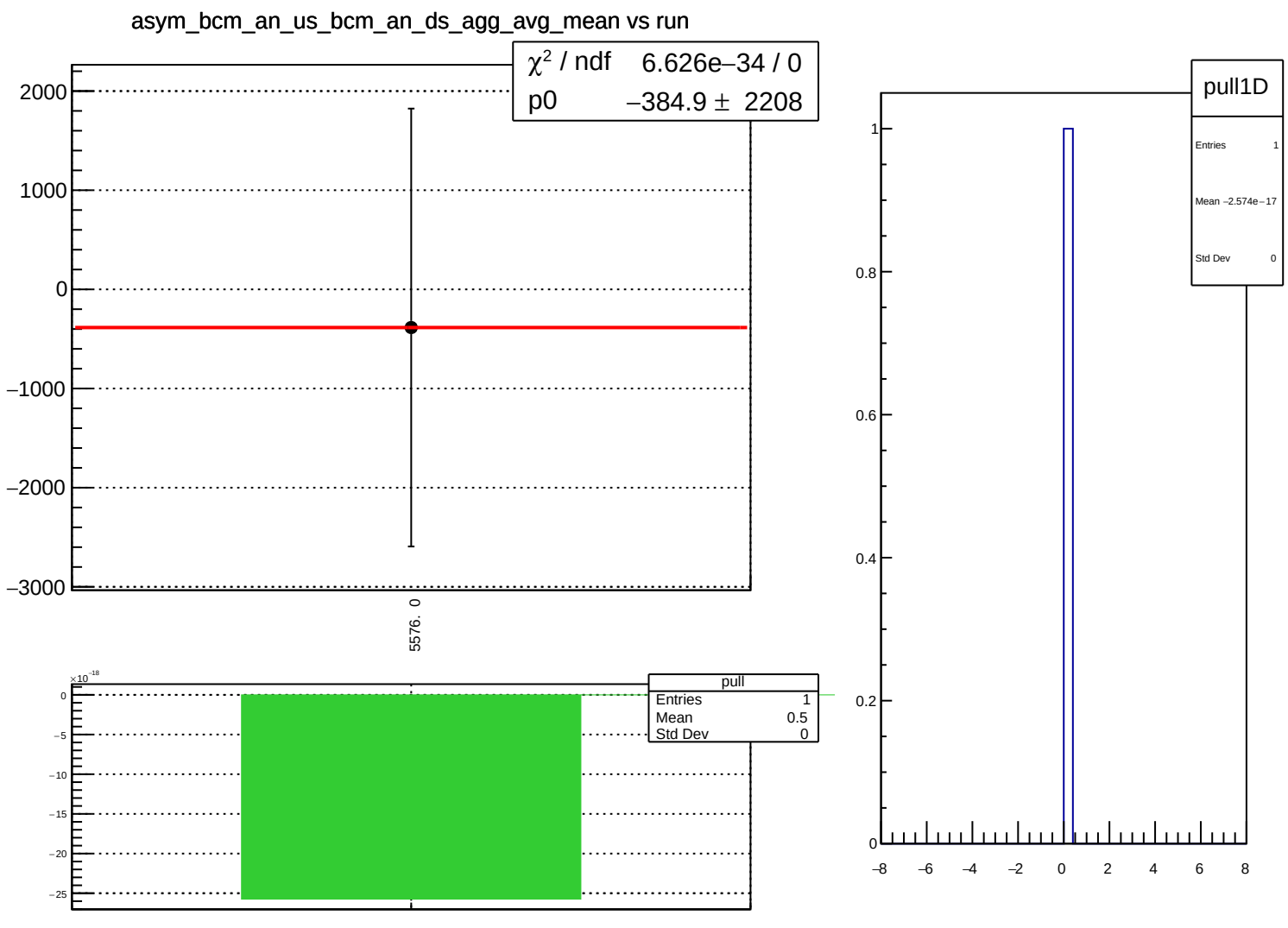

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

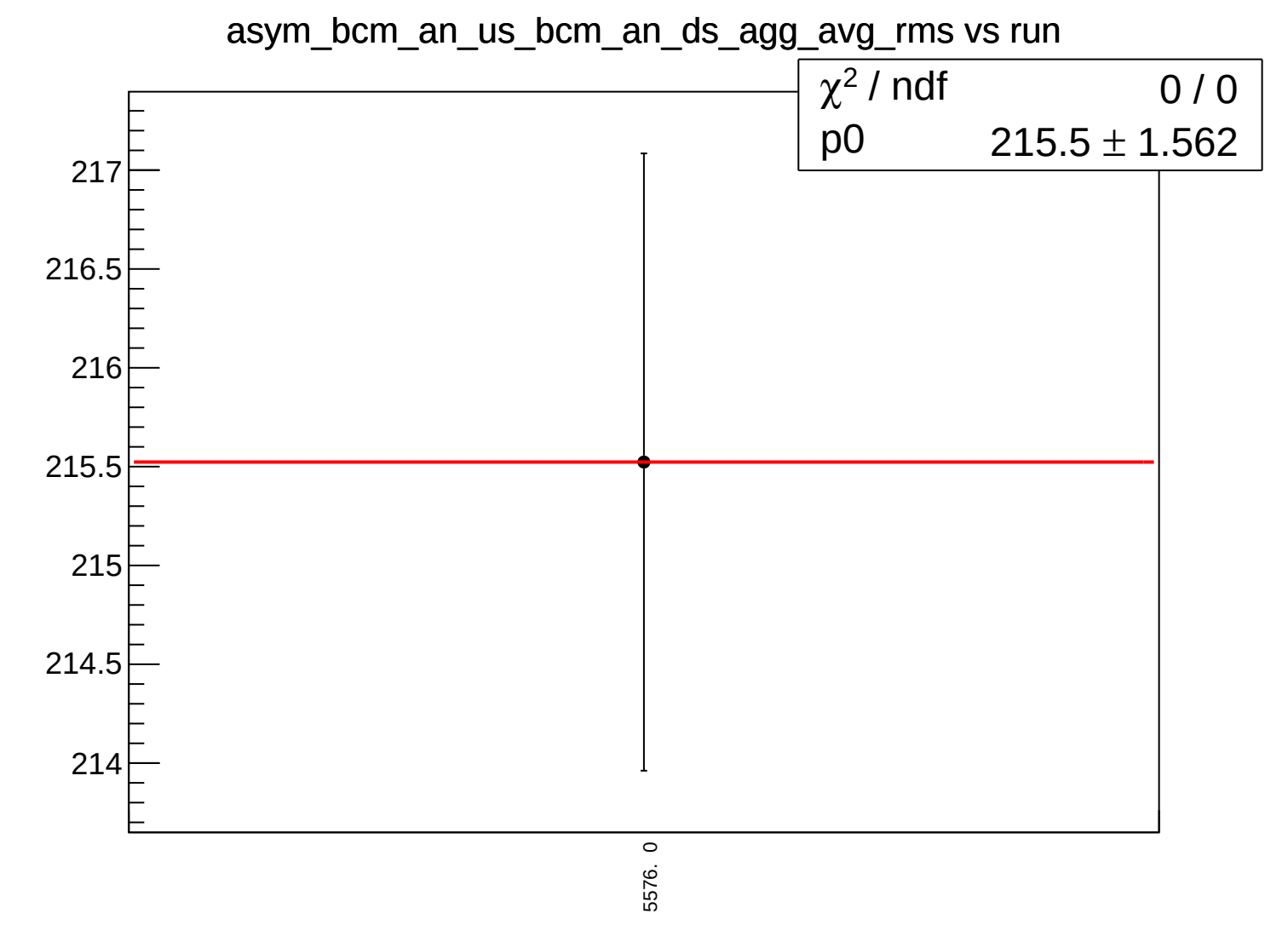

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 0 ± 1
1
0.8
0.6
0.4
0.2
0
5576. 0

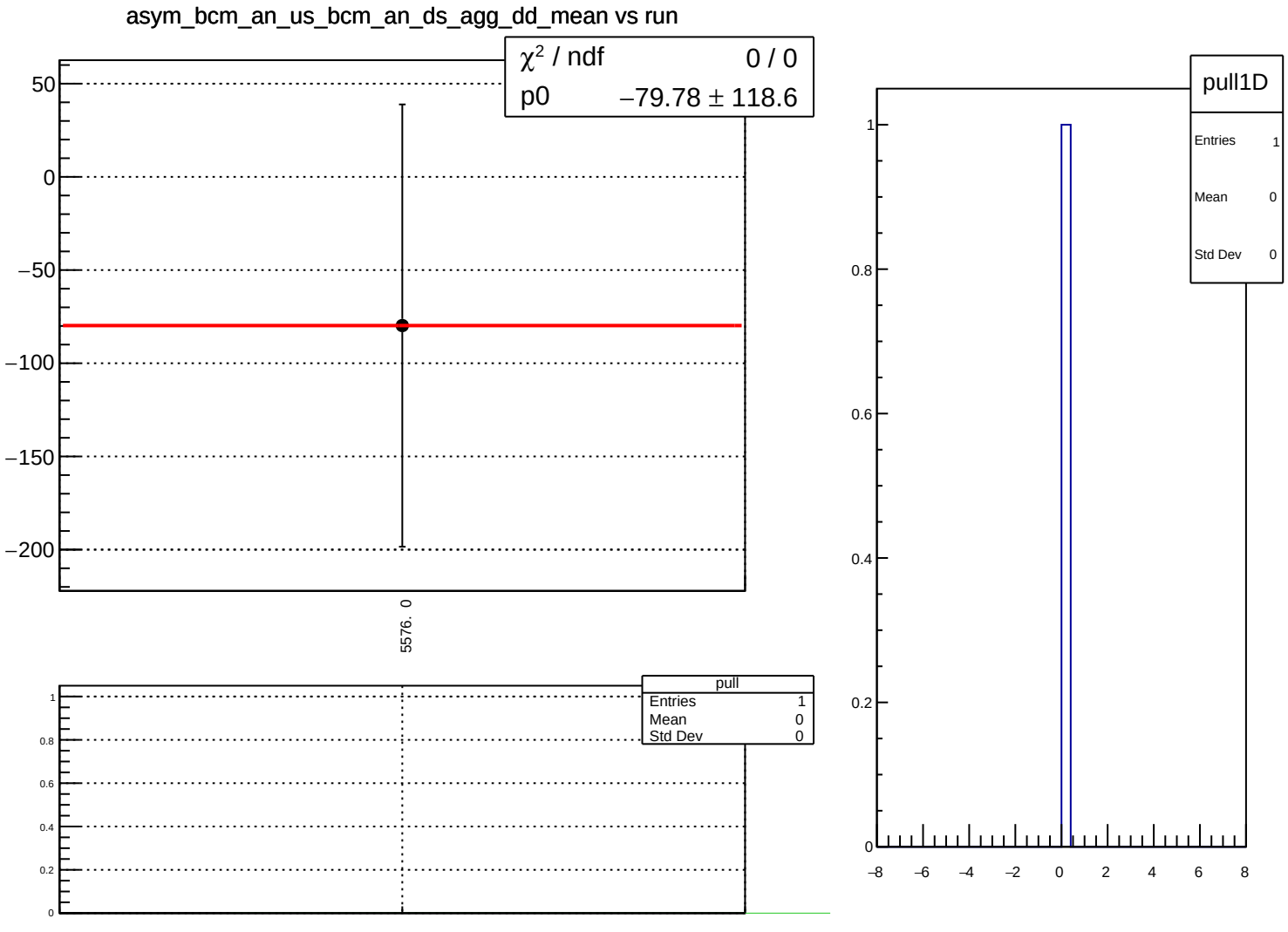

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 2.827e−33 / 0
p0 −5219 ± 1.711e+04
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

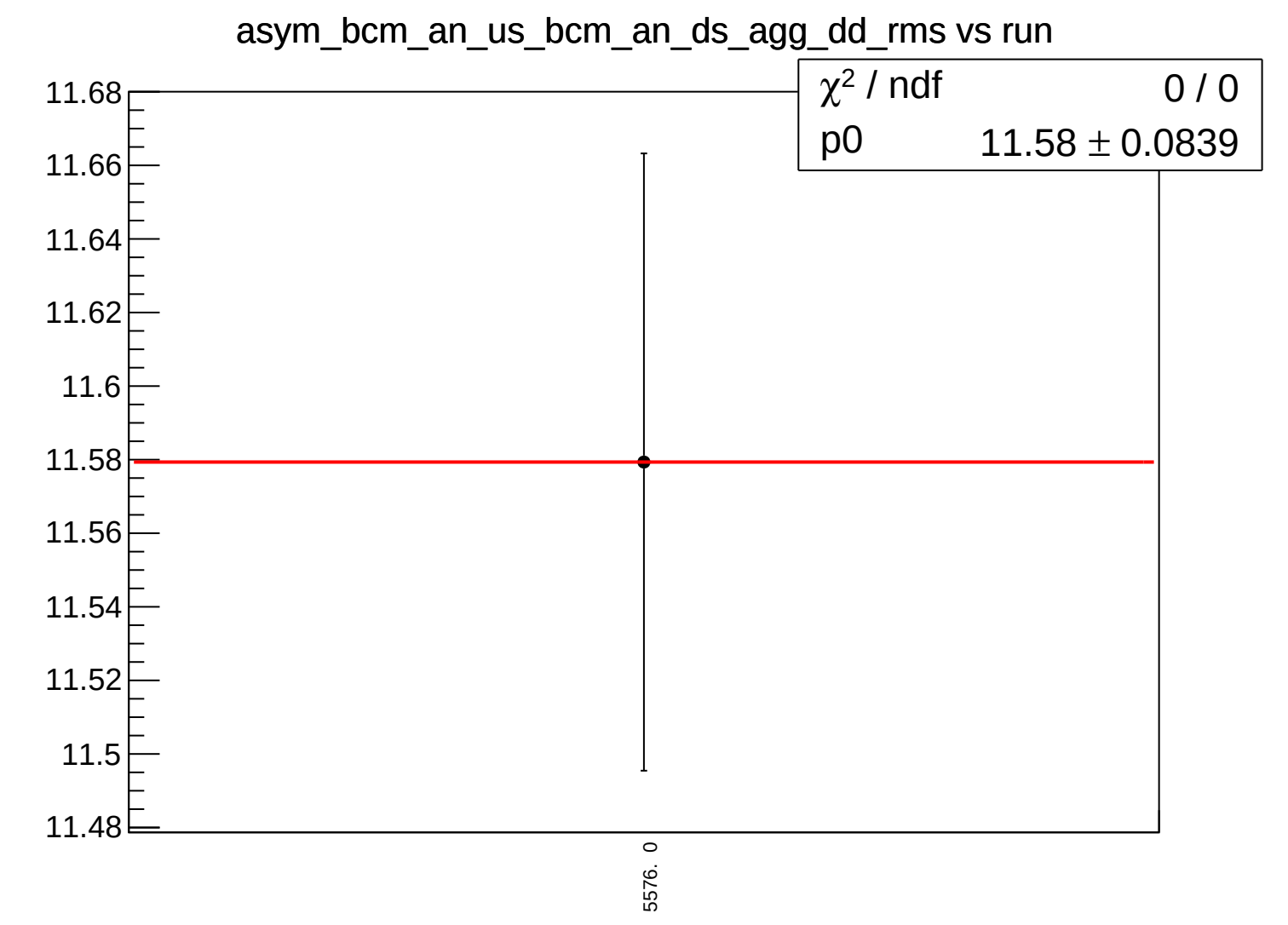

pull1D
Entries 1
Mean 5.317e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

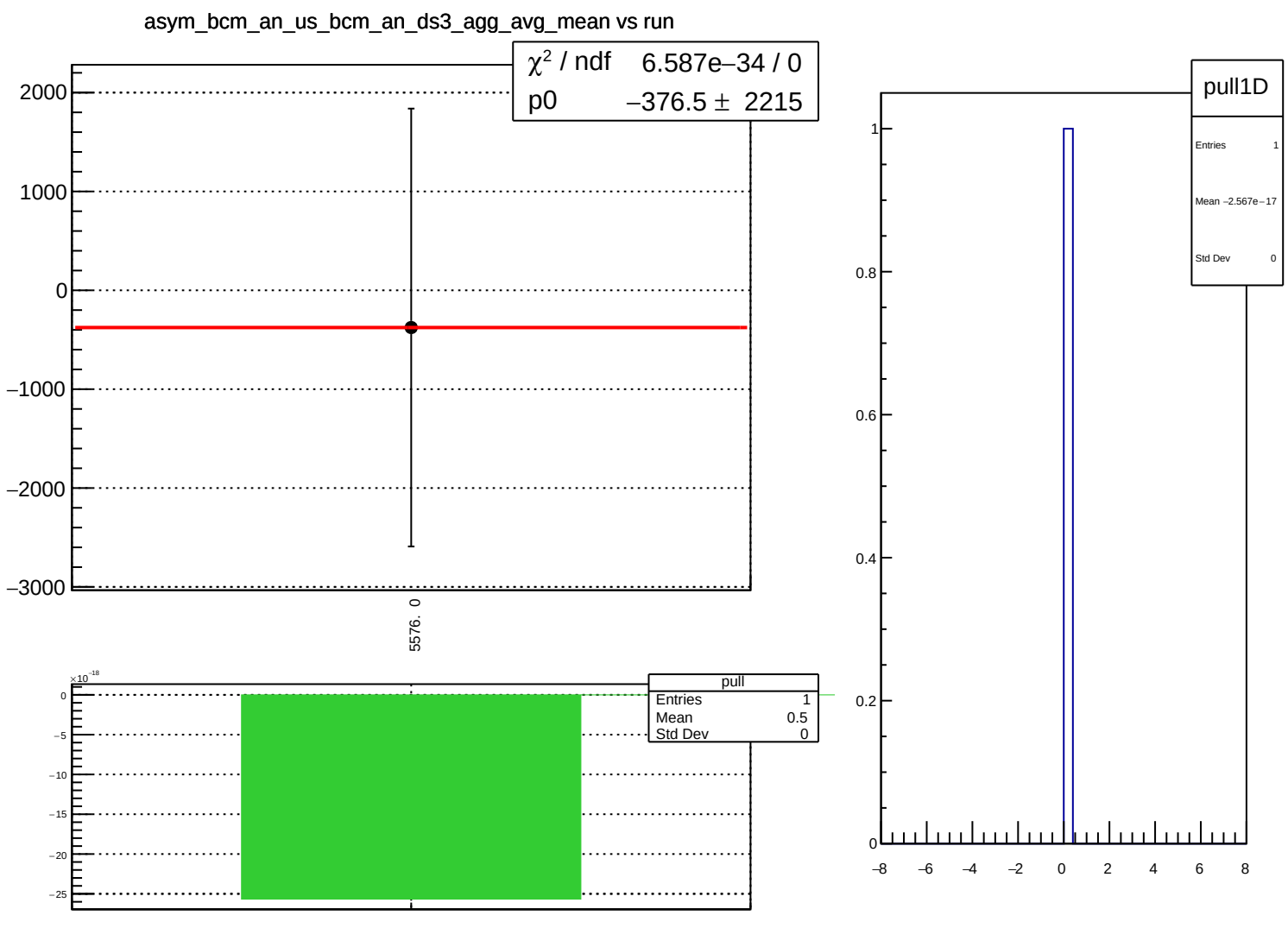

asym_atl_dd_atr_dd_dd_rms vs run
χ2 / ndf 0 / 0
p0 1670 ± 12.1
1680
1675
1670
1665
1660
5576. 0

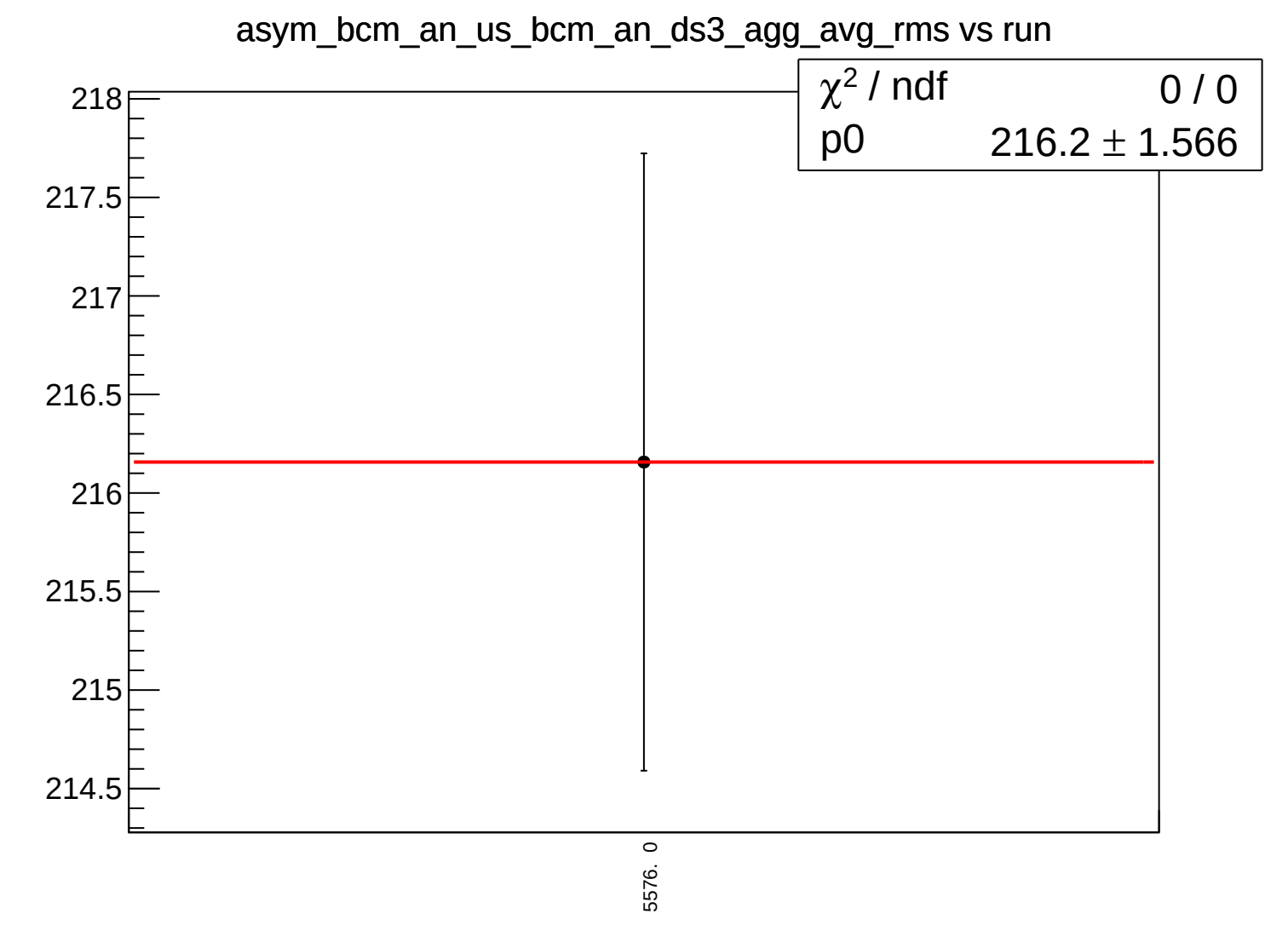

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.626e−34 / 0
p0 −384.9 ± 2208
2000
1000
0
−1000
−2000
−3000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.574e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

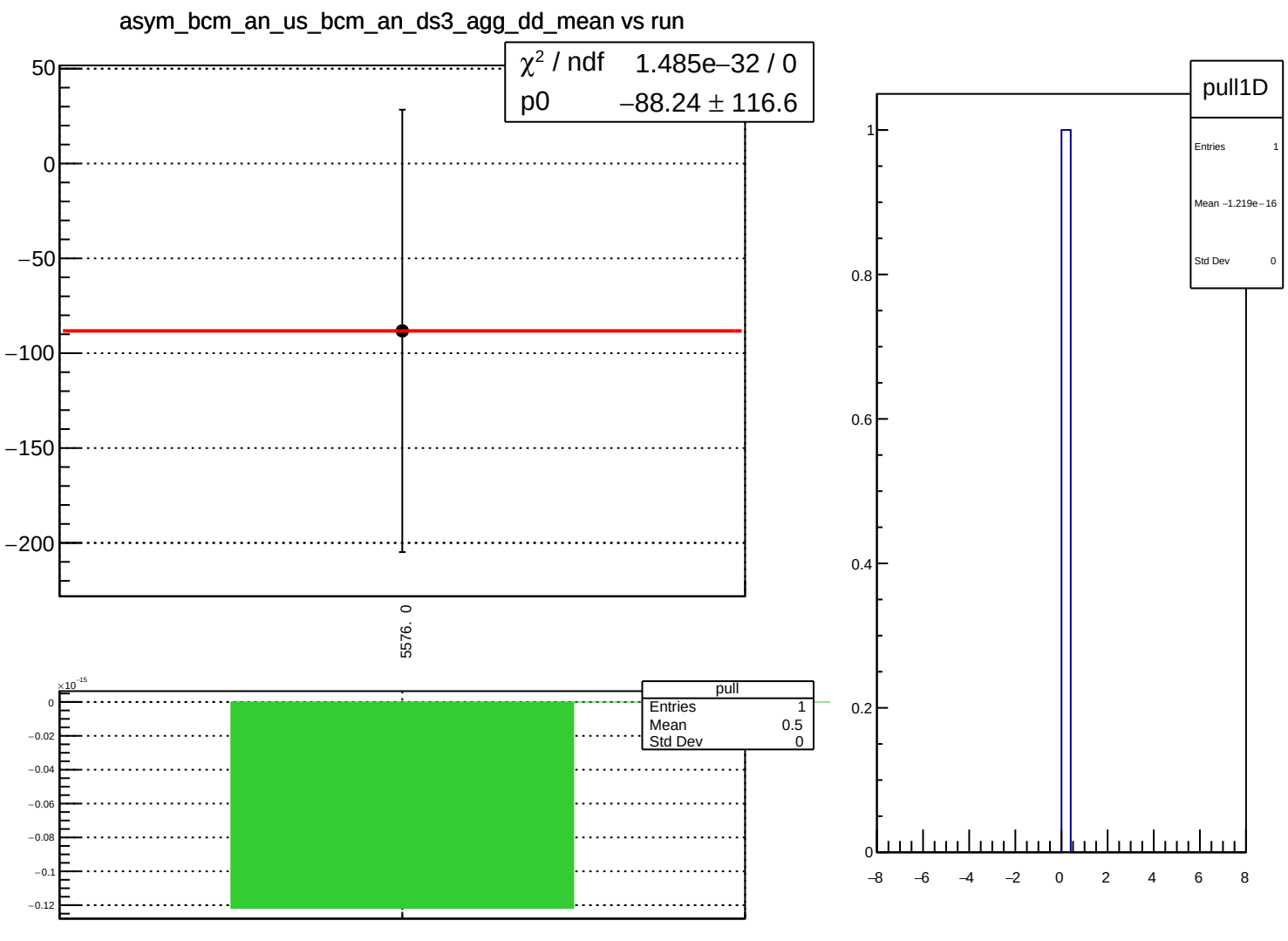

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 215.5 ± 1.562
217
216.5
216
215.5
215
214.5
214
5576. 0

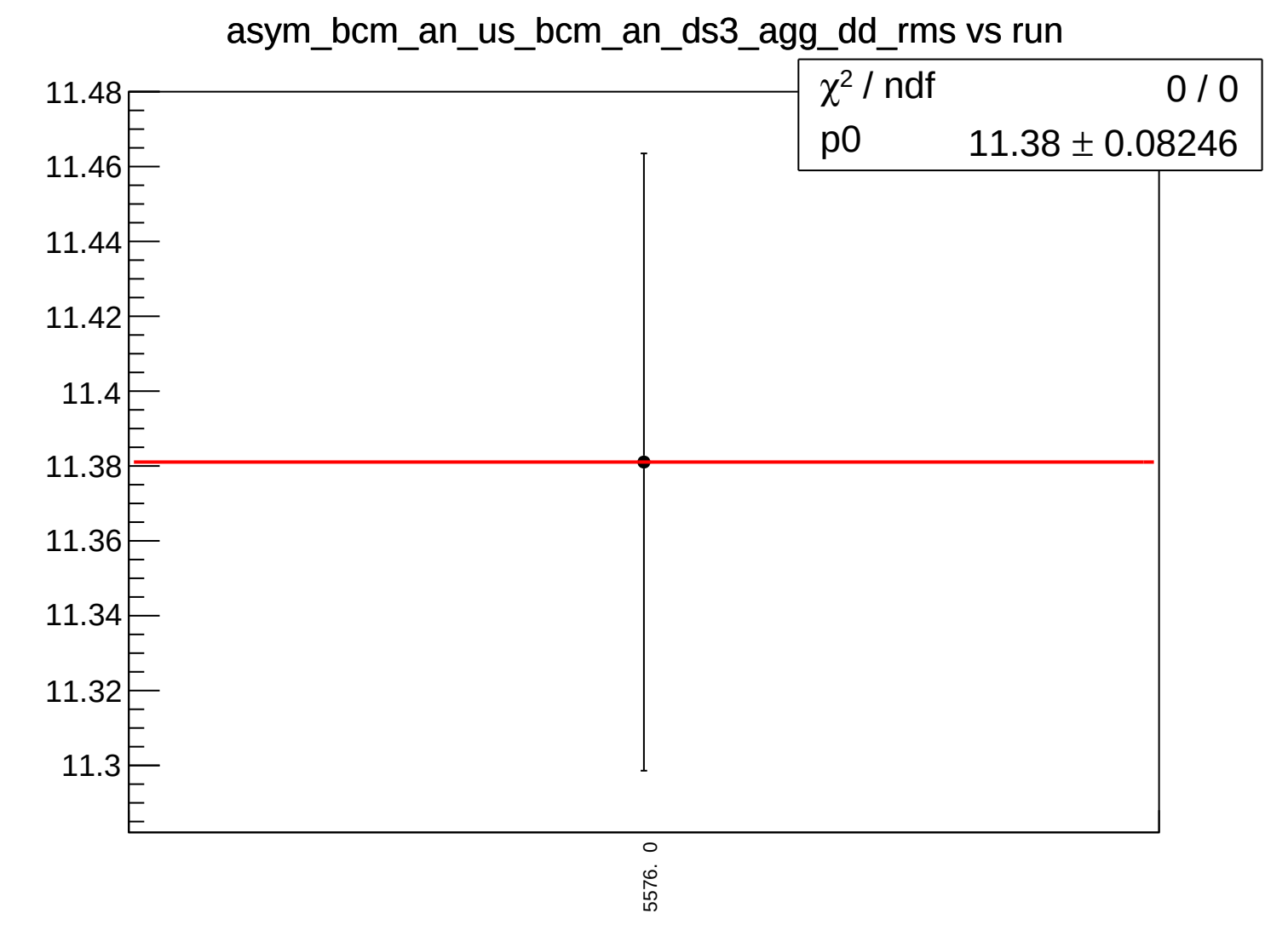

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −79.78 ± 118.6
50
0
−50
−100
−150
−200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

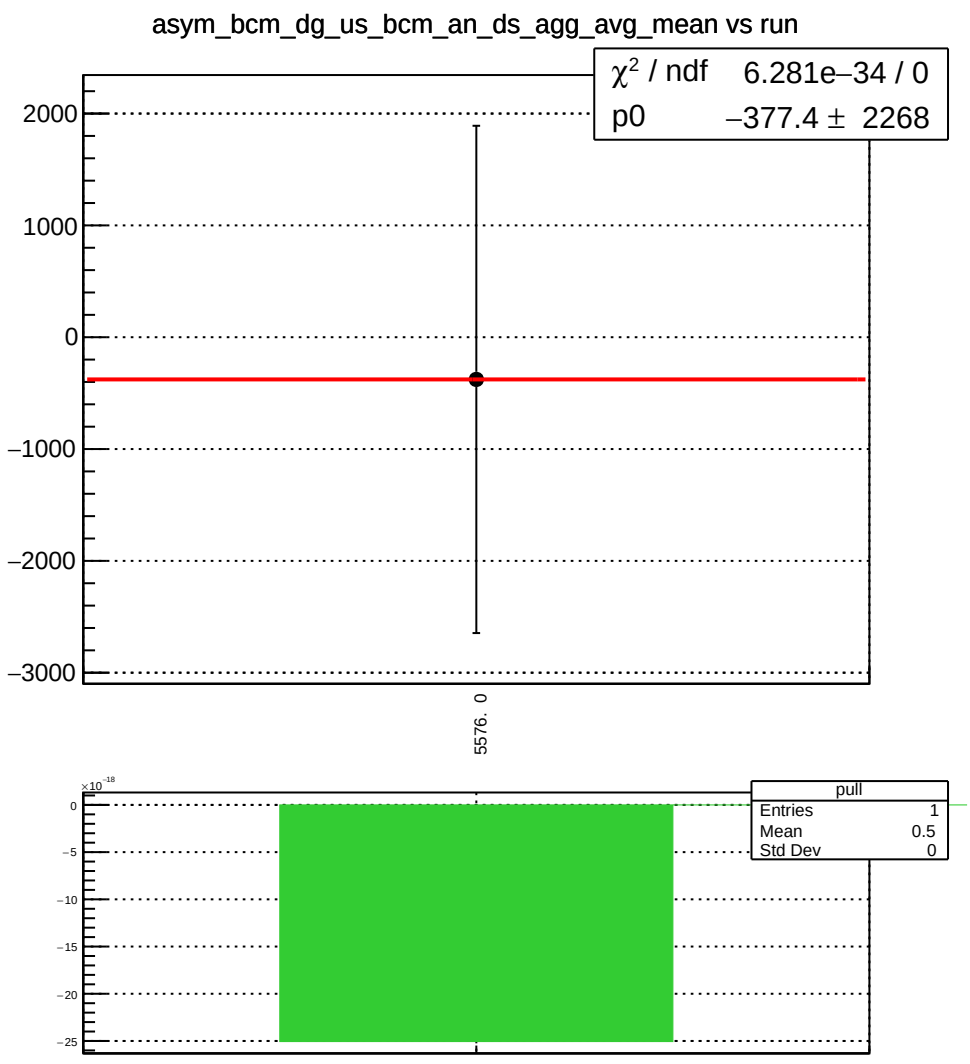

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 11.58 ± 0.0839
11.68
11.66
11.64
11.62
11.6
11.58
11.56
11.54
11.52
11.5
11.48
5576. 0

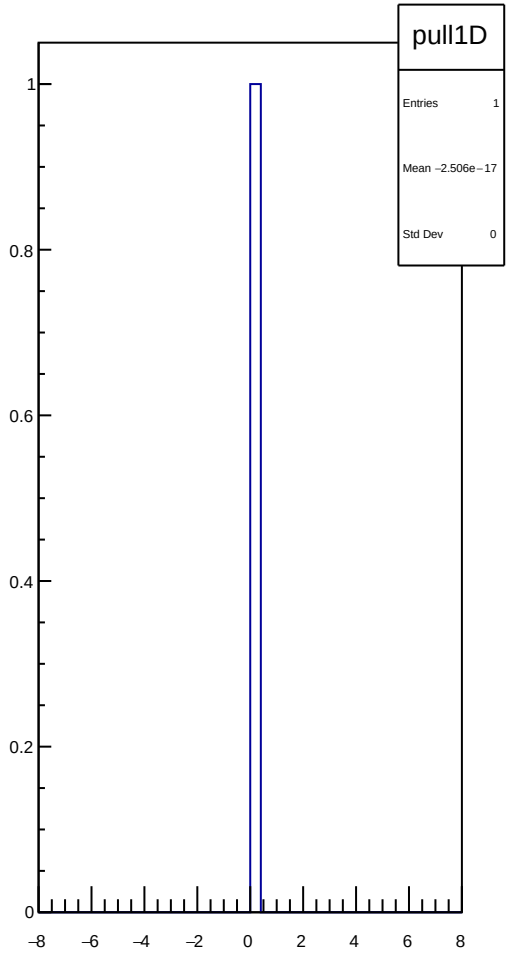

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 6.587e−34 / 0
p0 −376.5 ± 2215
2000
1000
0
−1000
−2000
−3000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.567e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

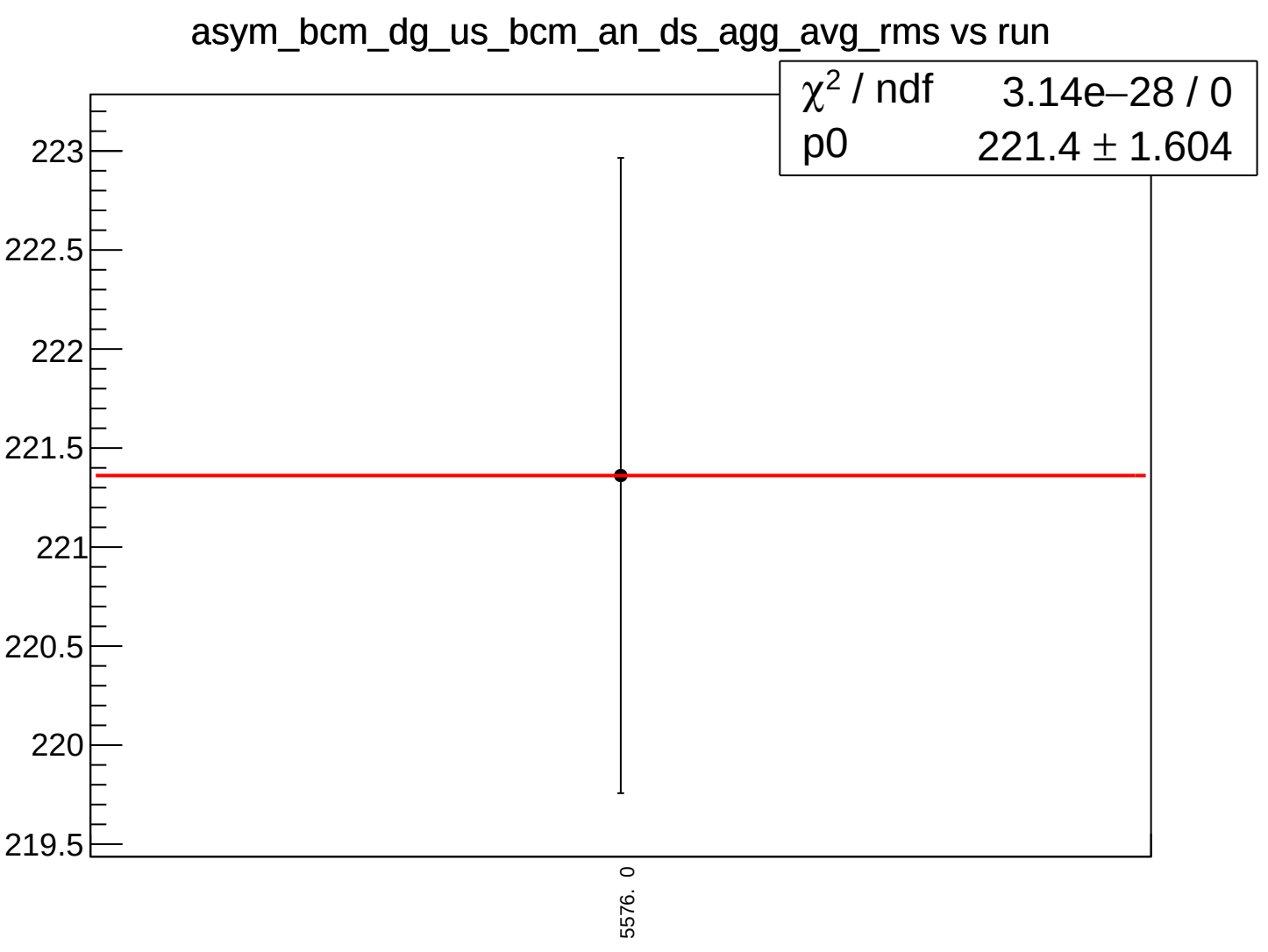

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 216.2 ± 1.566
218
217.5
217
216.5
216
215.5
215
214.5
5576. 0

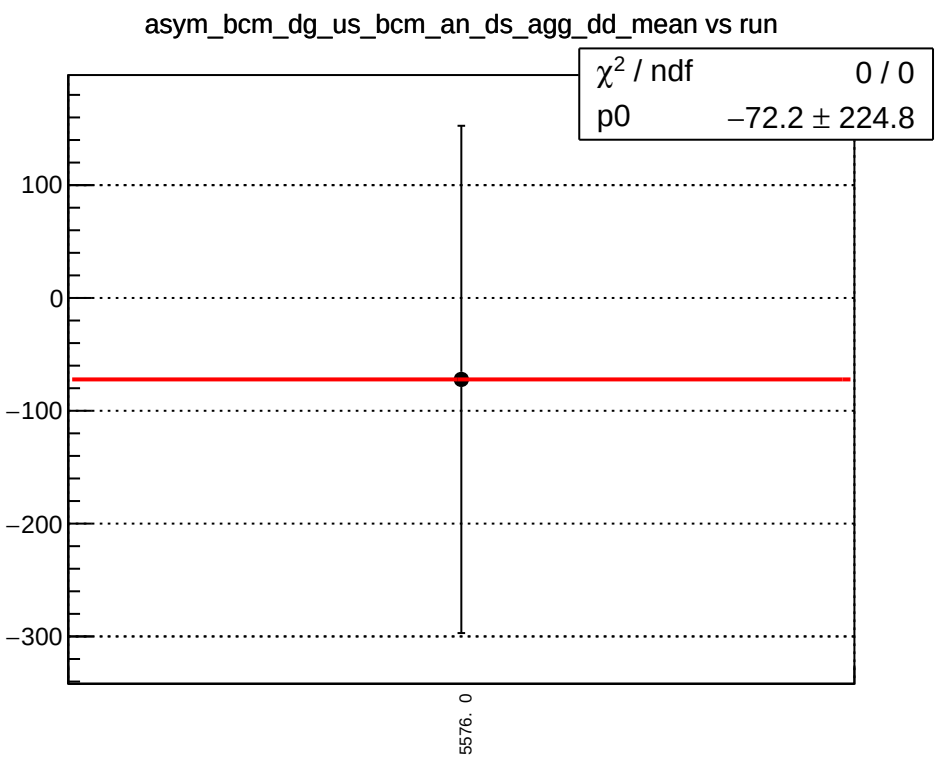

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 1.485e−32 / 0
p0 −88.24 ± 116.6
50
0
−50
−100
−150
−200
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.219e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

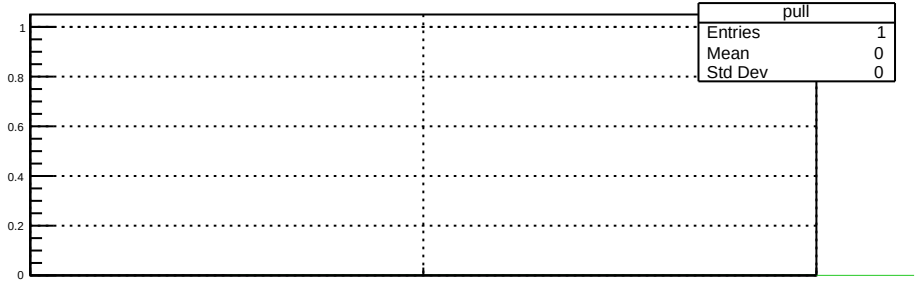

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 11.38 ± 0.08246
11.48
11.46
11.44
11.42
11.4
11.38
11.36
11.34
11.32
11.3
5576. 0

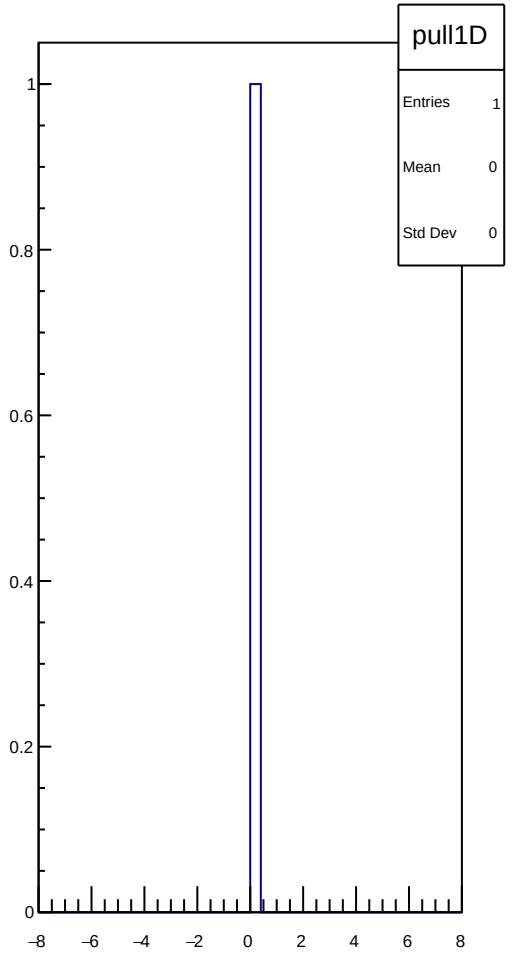

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.281e−34 / 0
p0 −377.4 ± 2268
2000
1000
0
−1000
−2000
−3000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0

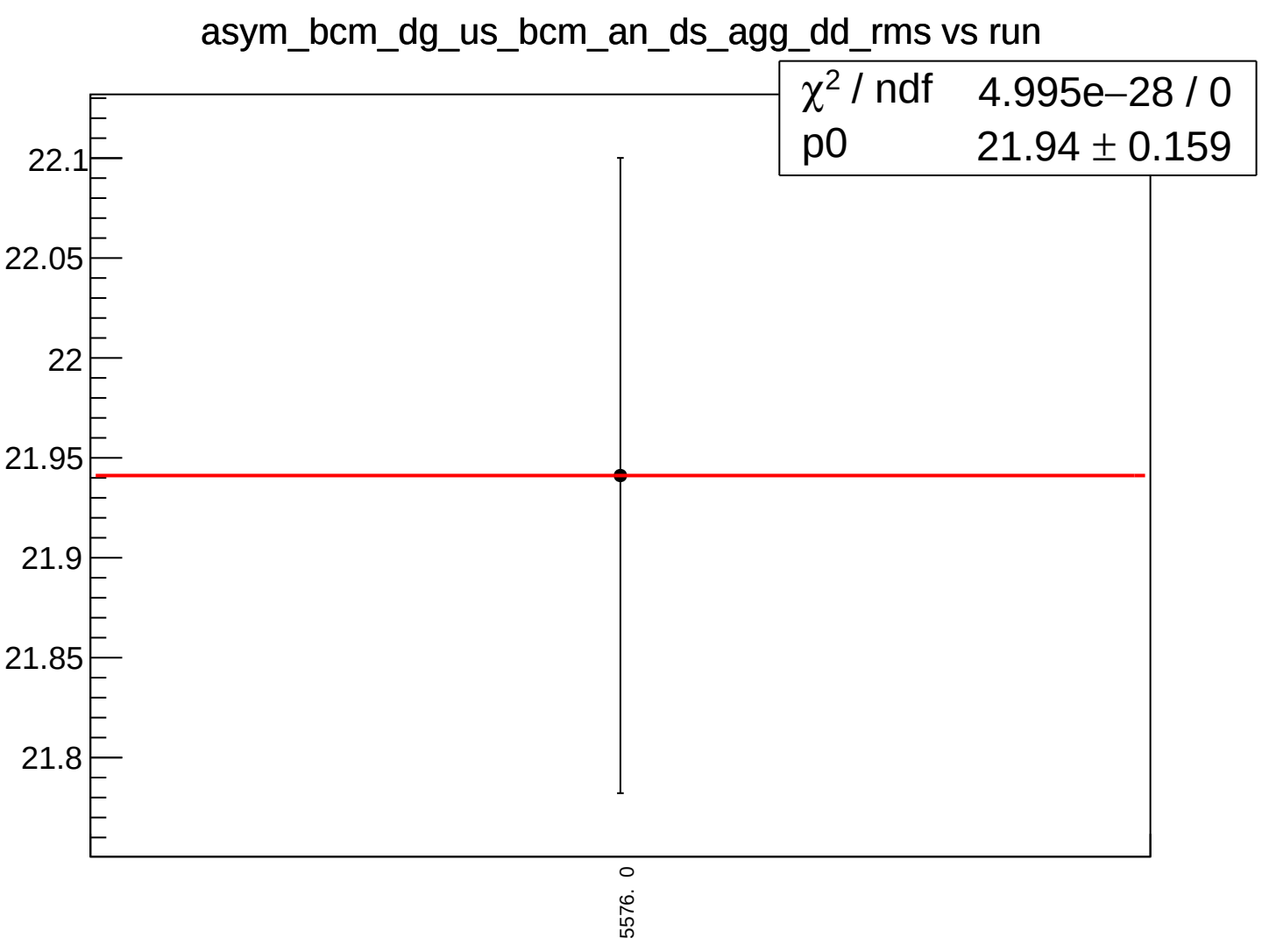

pull1D
Entries 1
Mean −2.506e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

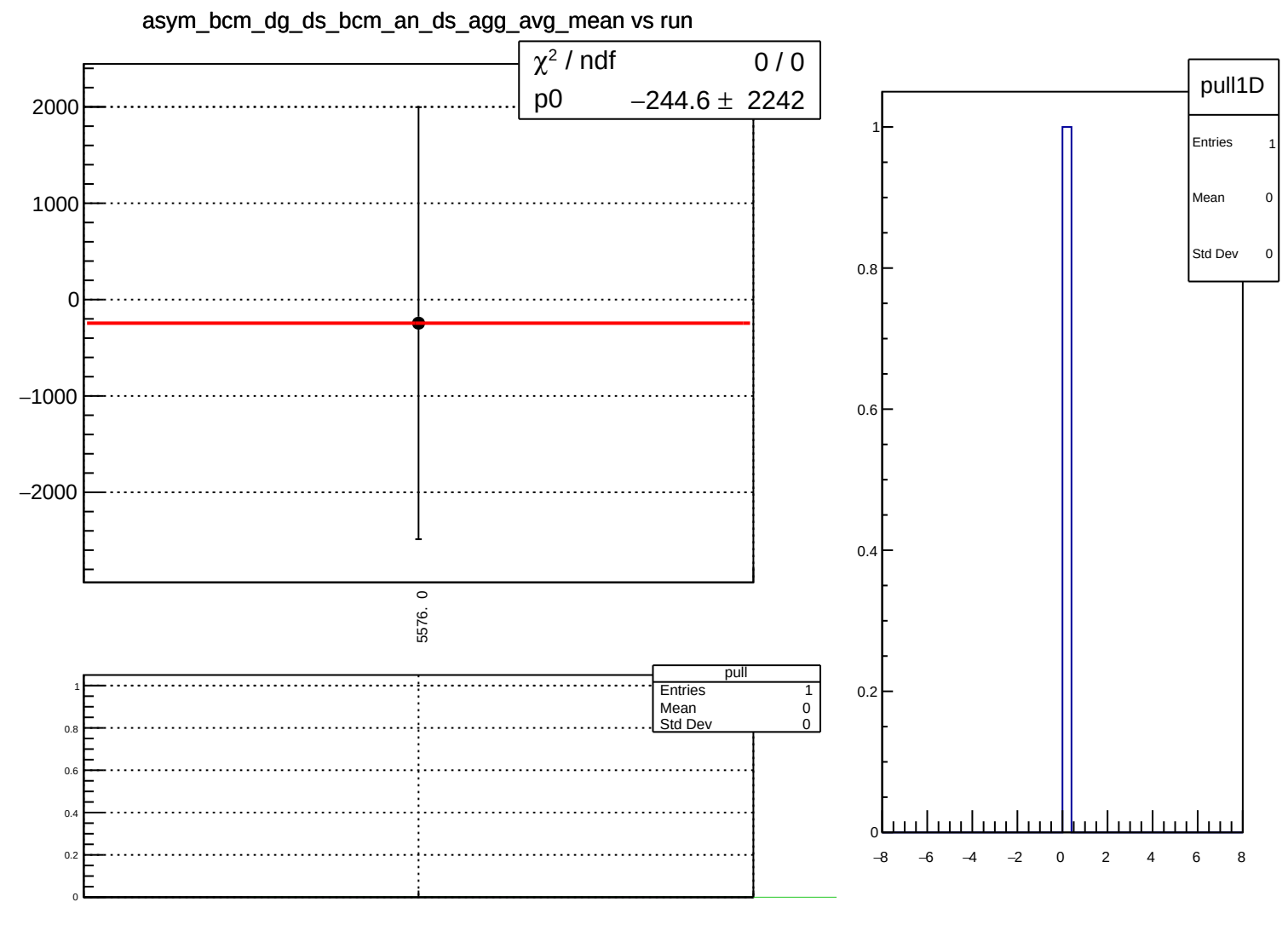

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.14e−28 / 0
p0 221.4 ± 1.604
223
222.5
222
221.5
221
220.5
220
219.5
5576. 0

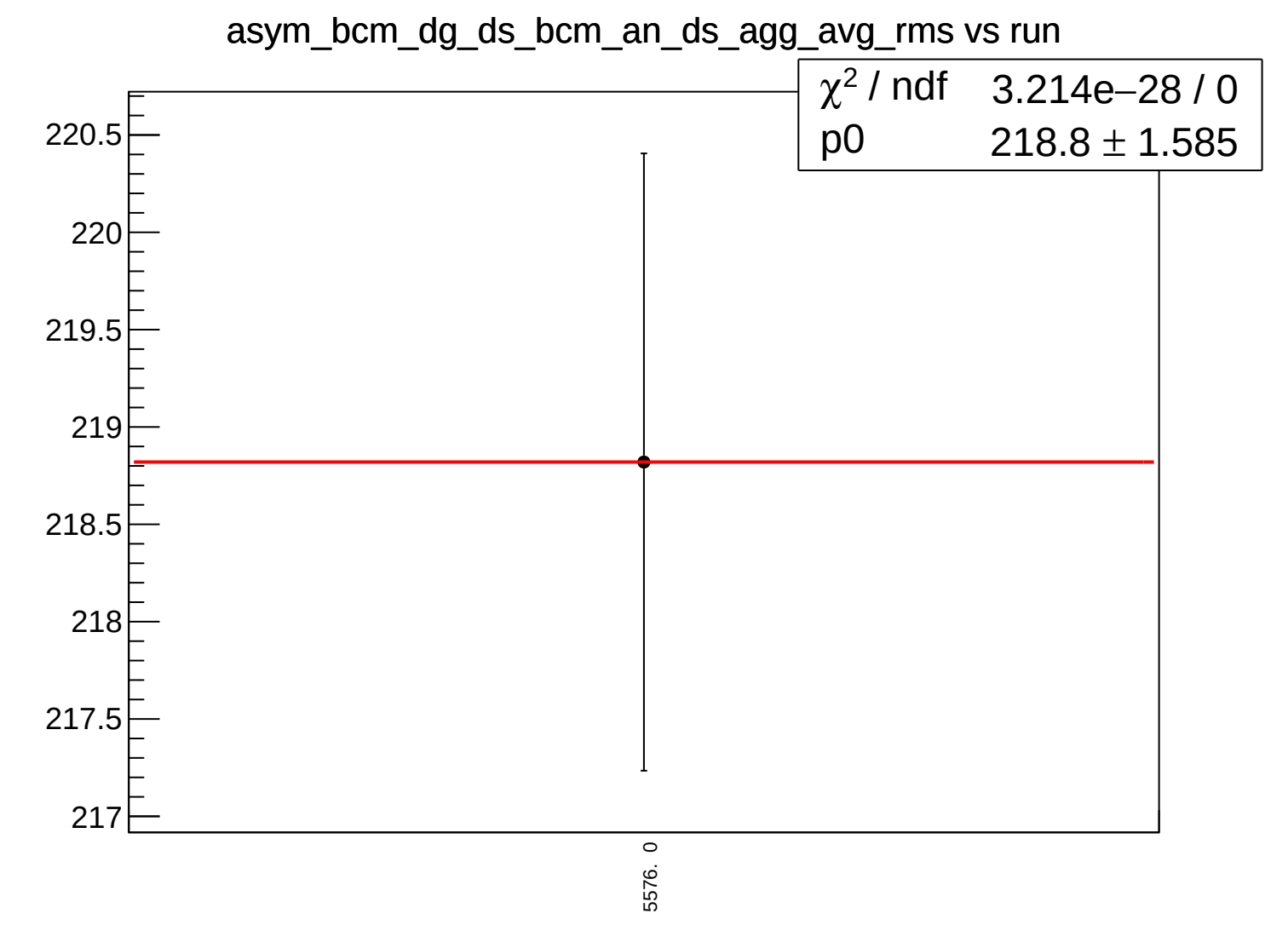

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −72.2 ± 224.8
100
0
−100
−200
−300
5576. 0

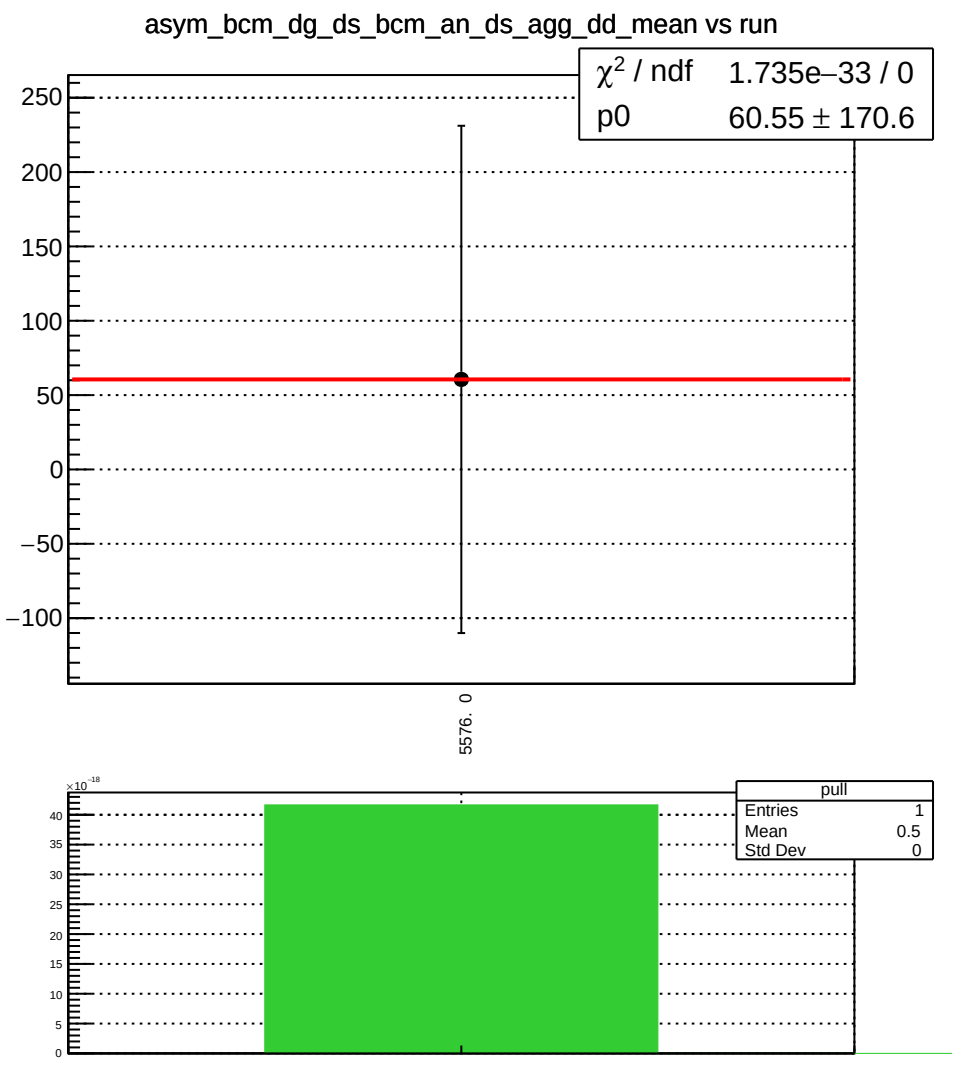

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

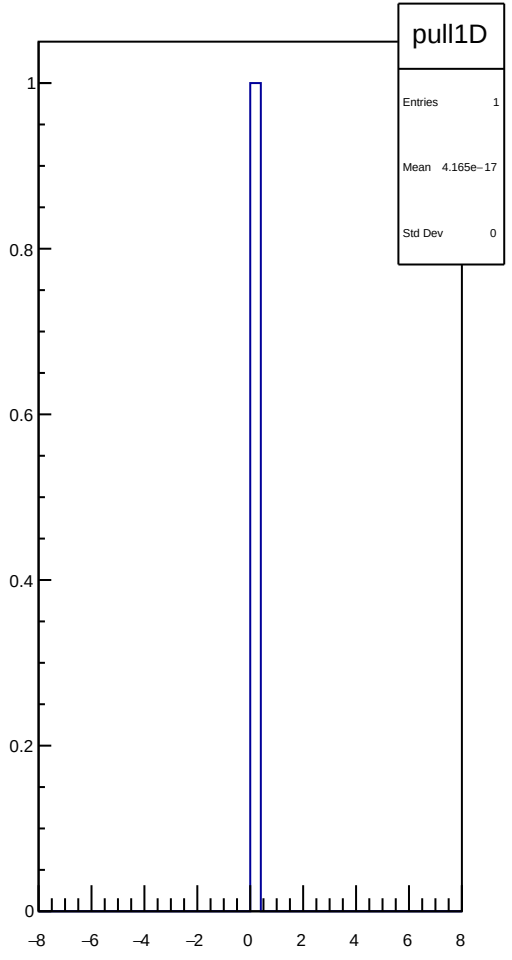

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

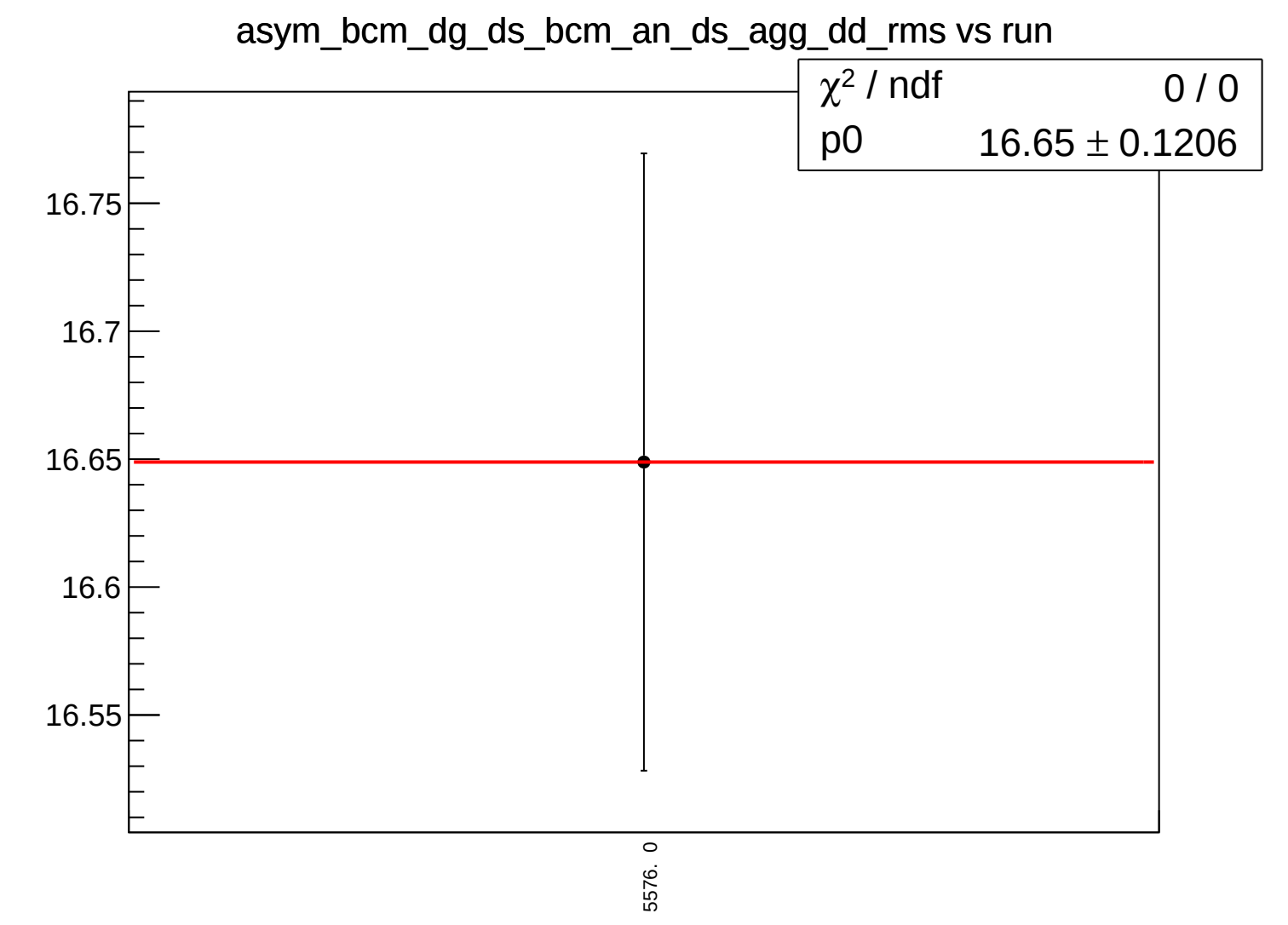

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4.995e−28 / 0
p0 21.94 ± 0.159
22.1
22.05
22
21.95
21.9
21.85
21.8
5576. 0

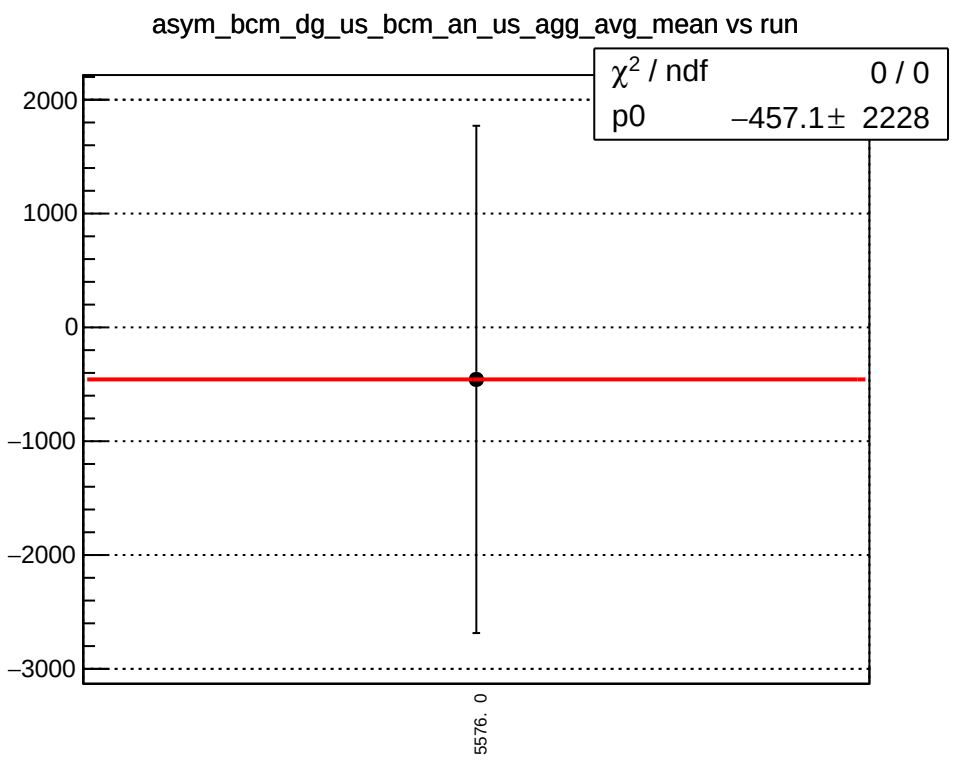

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −244.6 ± 2242
2000
1000
0
−1000
−2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

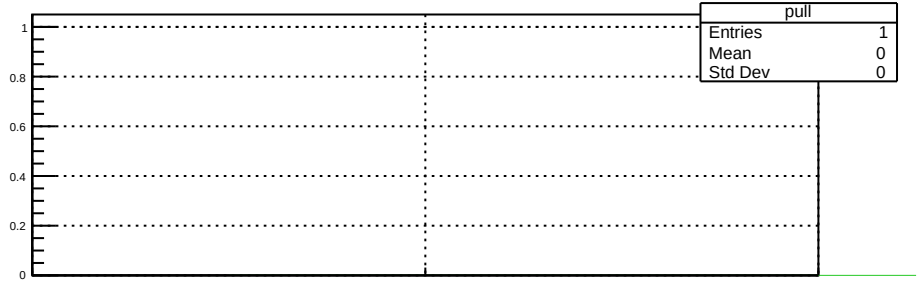

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.214e−28 / 0
p0 218.8 ± 1.585
220.5
220
219.5
219
218.5
218
217.5
217
5576. 0

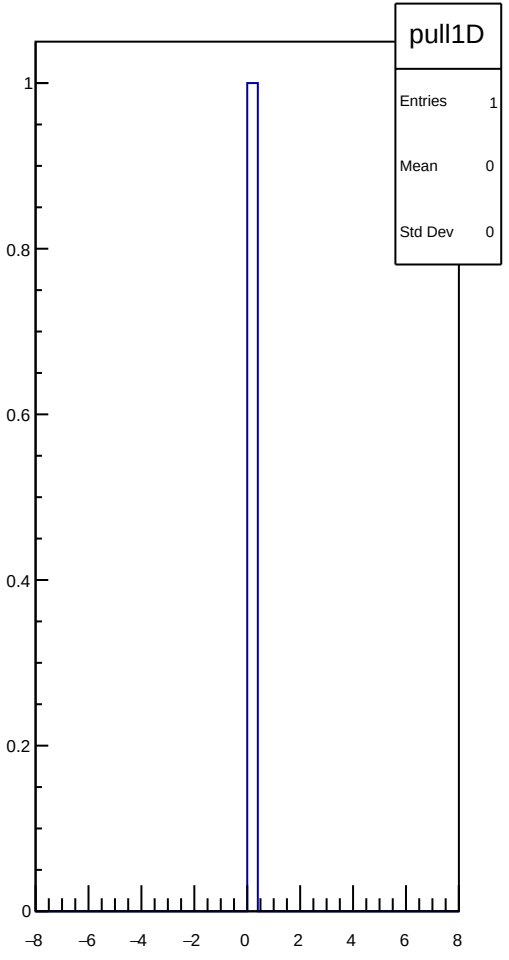

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 1.735e−33 / 0
p0 60.55 ± 170.6
250
200
150
100
50
0
−50
−100
5576. 0
×10⁻¹⁸
40
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

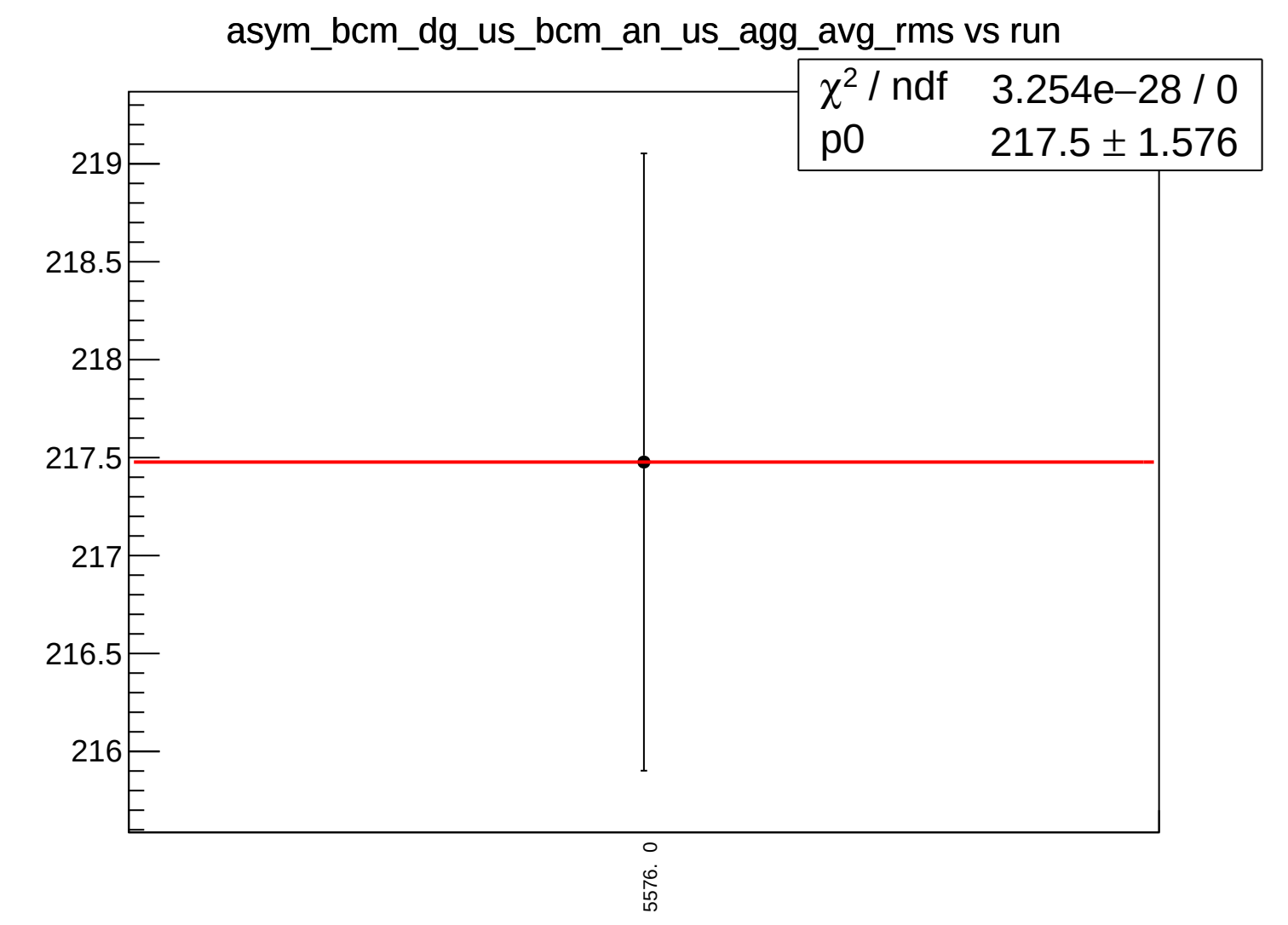

pull1D
Entries 1
Mean 4.165e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

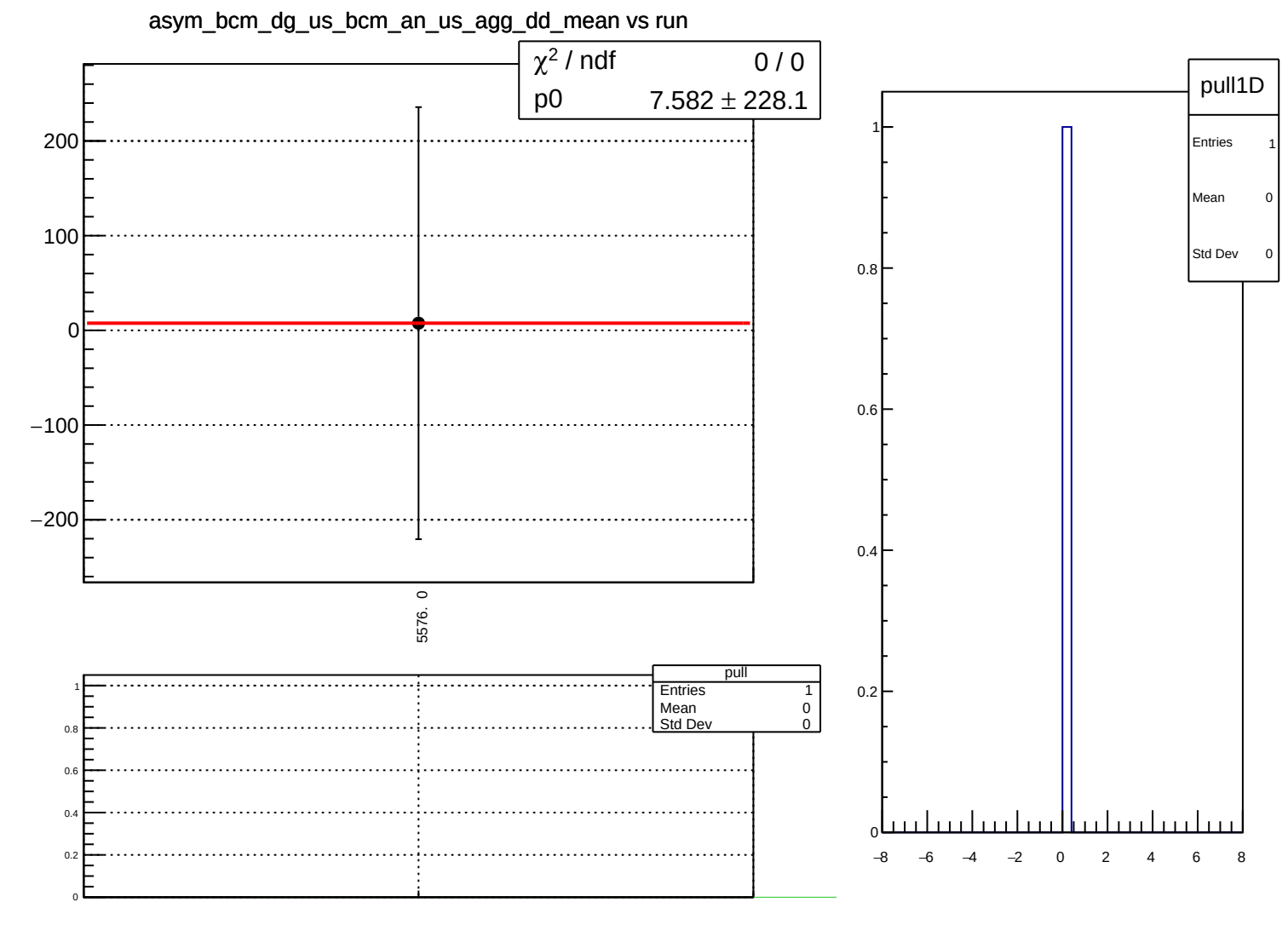

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 16.65 ± 0.1206
16.75
16.7
16.65
16.6
16.55
5576. 0

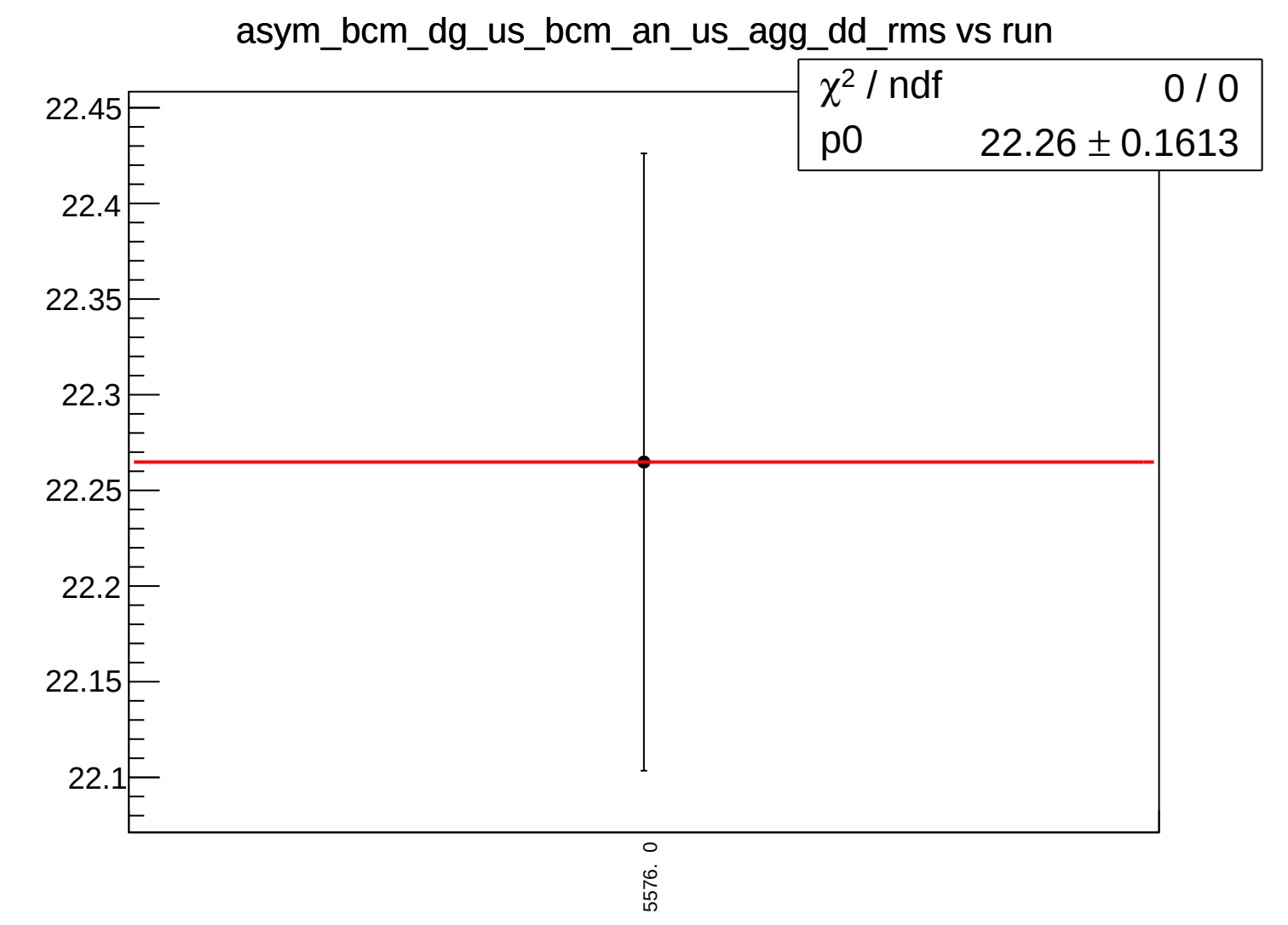

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −457.1± 2228
2000
1000
0
−1000
−2000
−3000
5576. 0

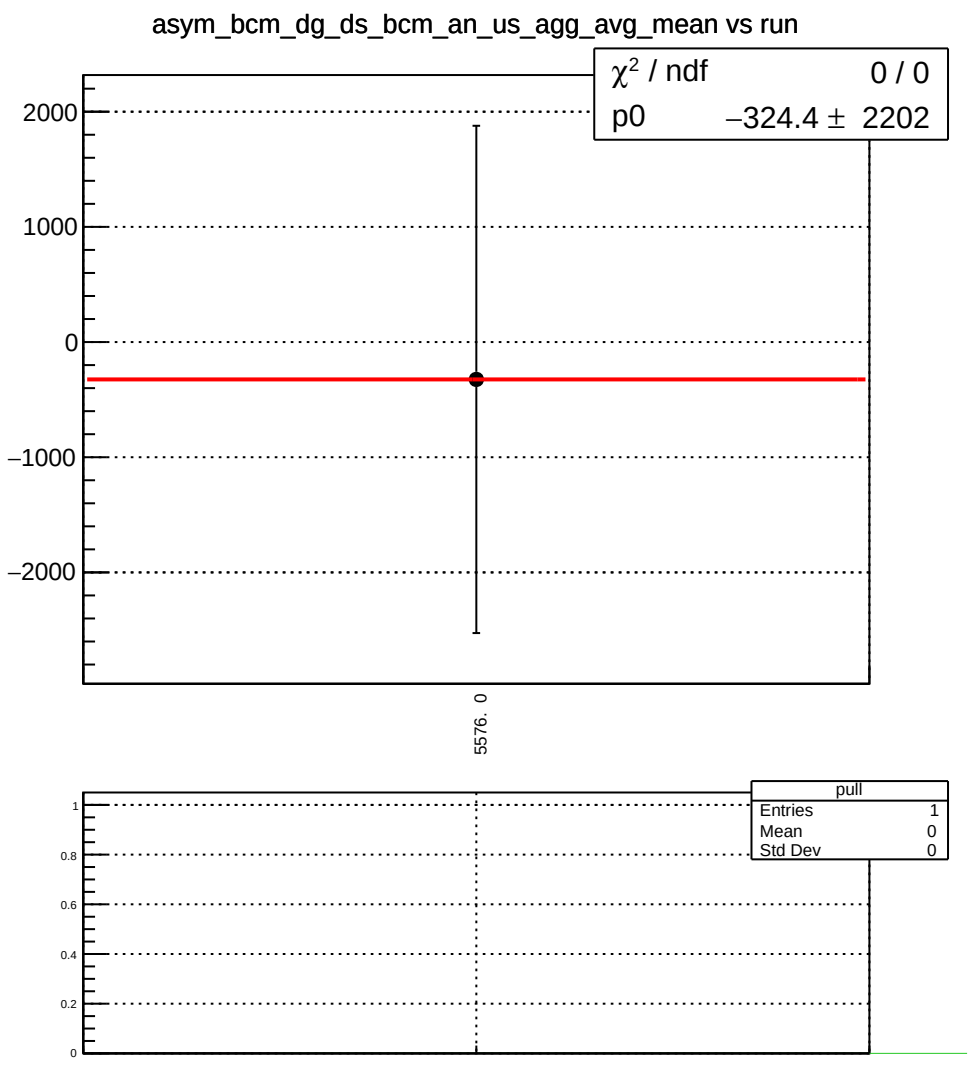

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

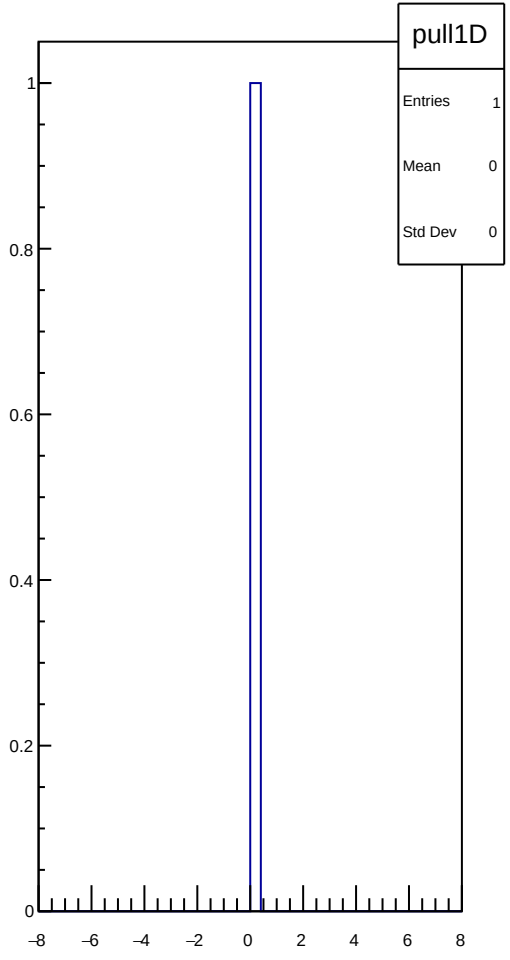

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

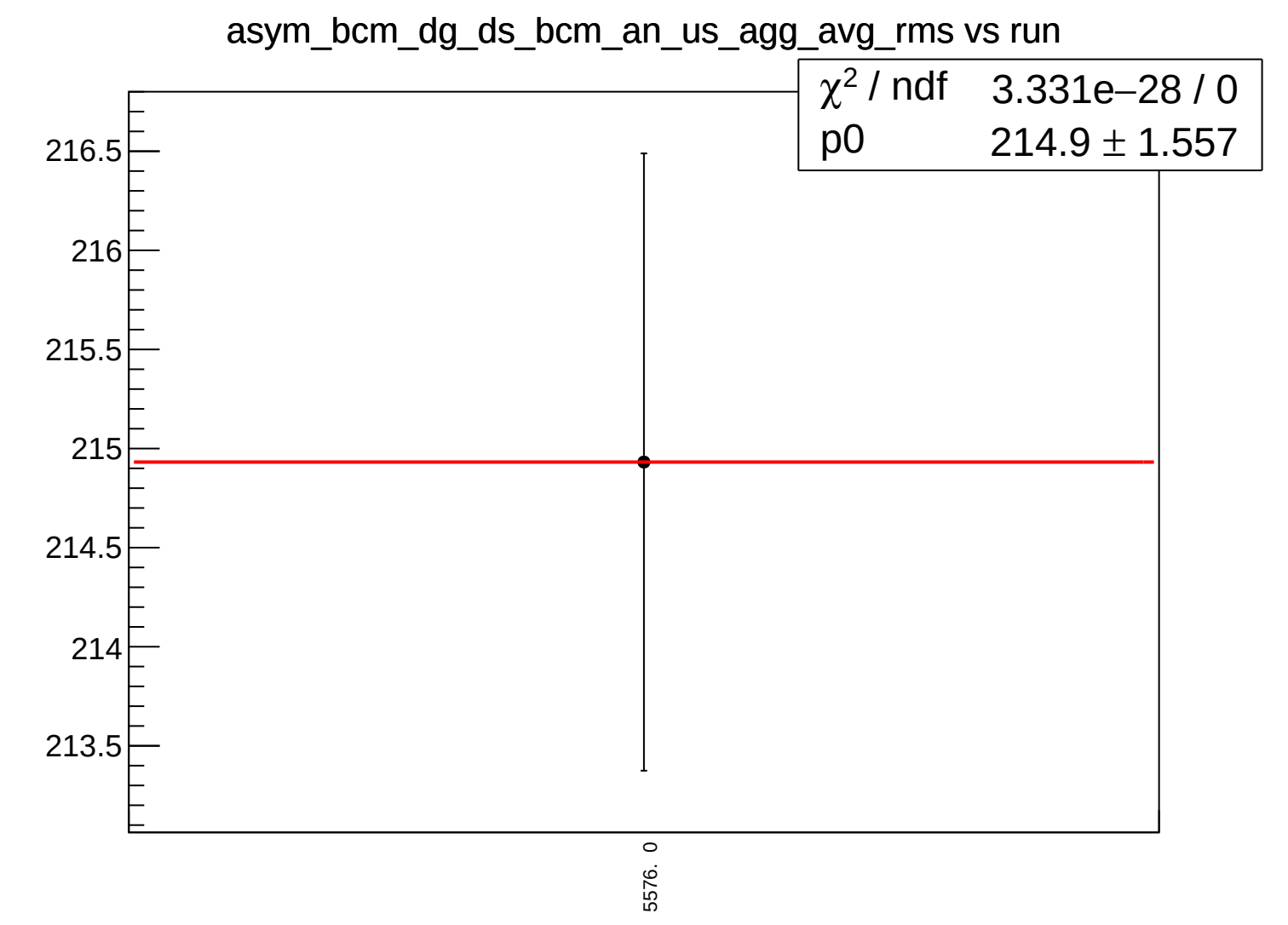

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.254e−28 / 0
p0 217.5 ± 1.576
219
218.5
218
217.5
217
216.5
216
5576. 0

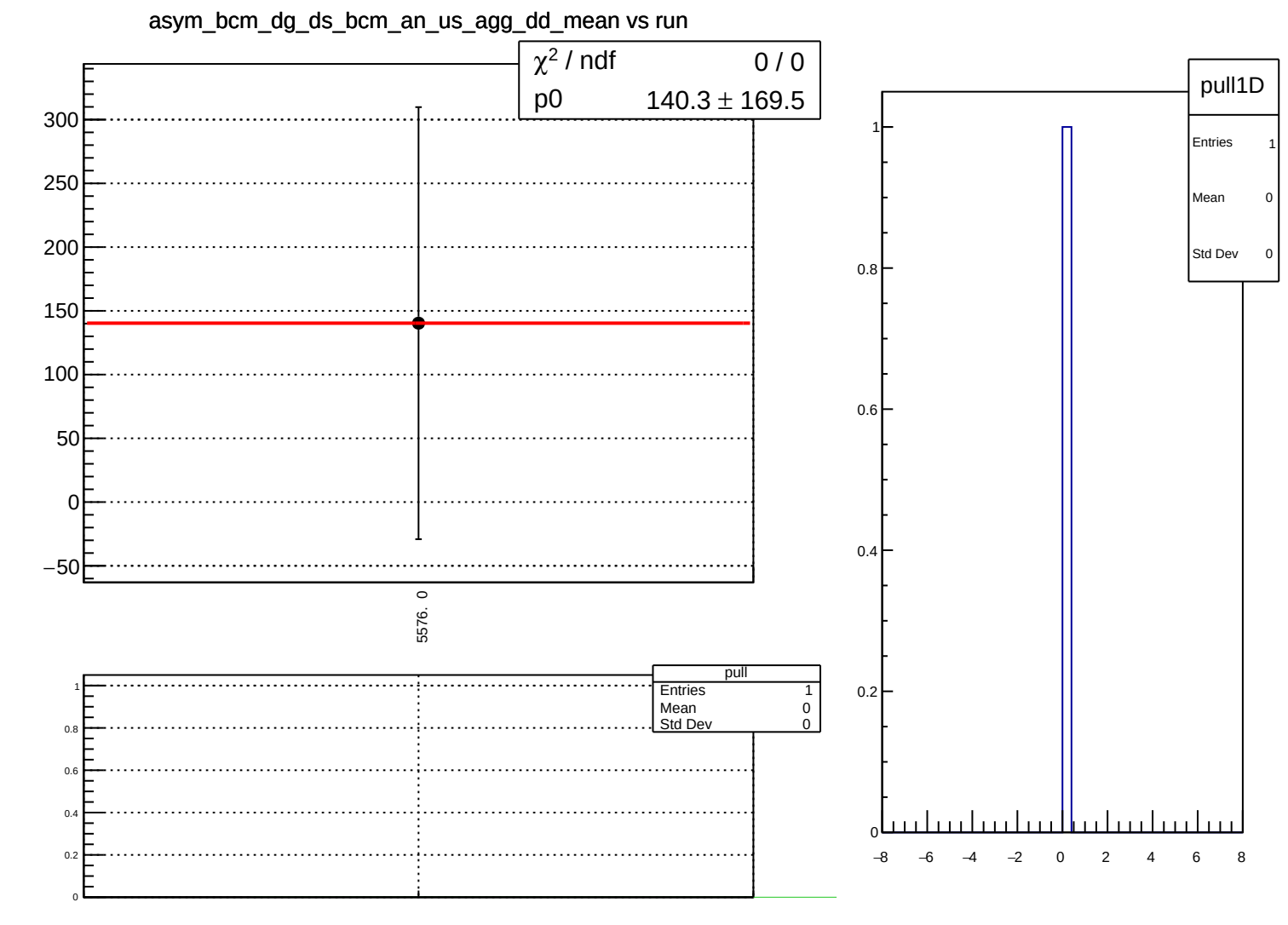

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 7.582 ± 228.1
200
100
0
−100
−200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

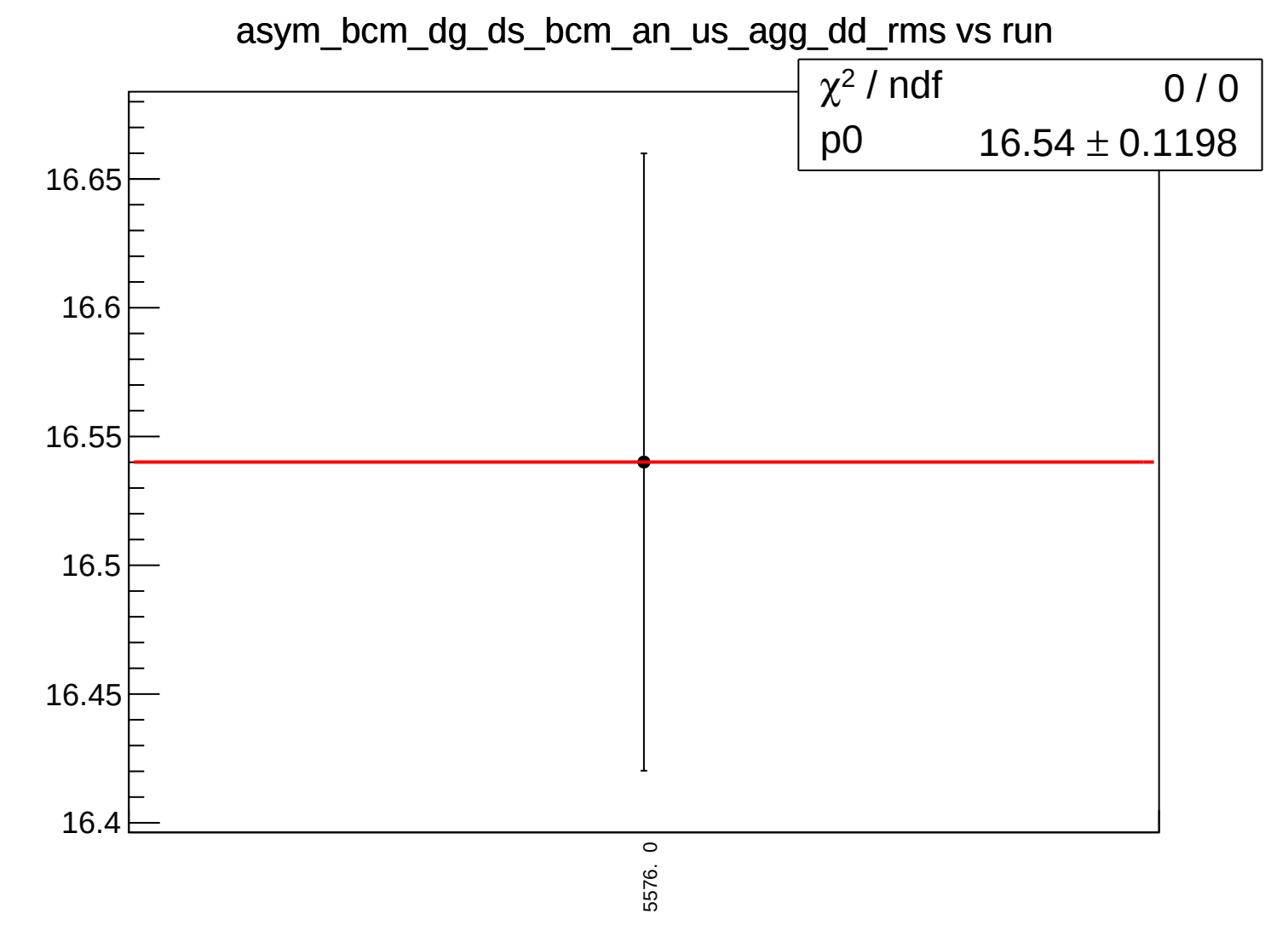

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 22.26 ± 0.1613
22.45
22.4
22.35
22.3
22.25
22.2
22.15
22.1
5576. 0

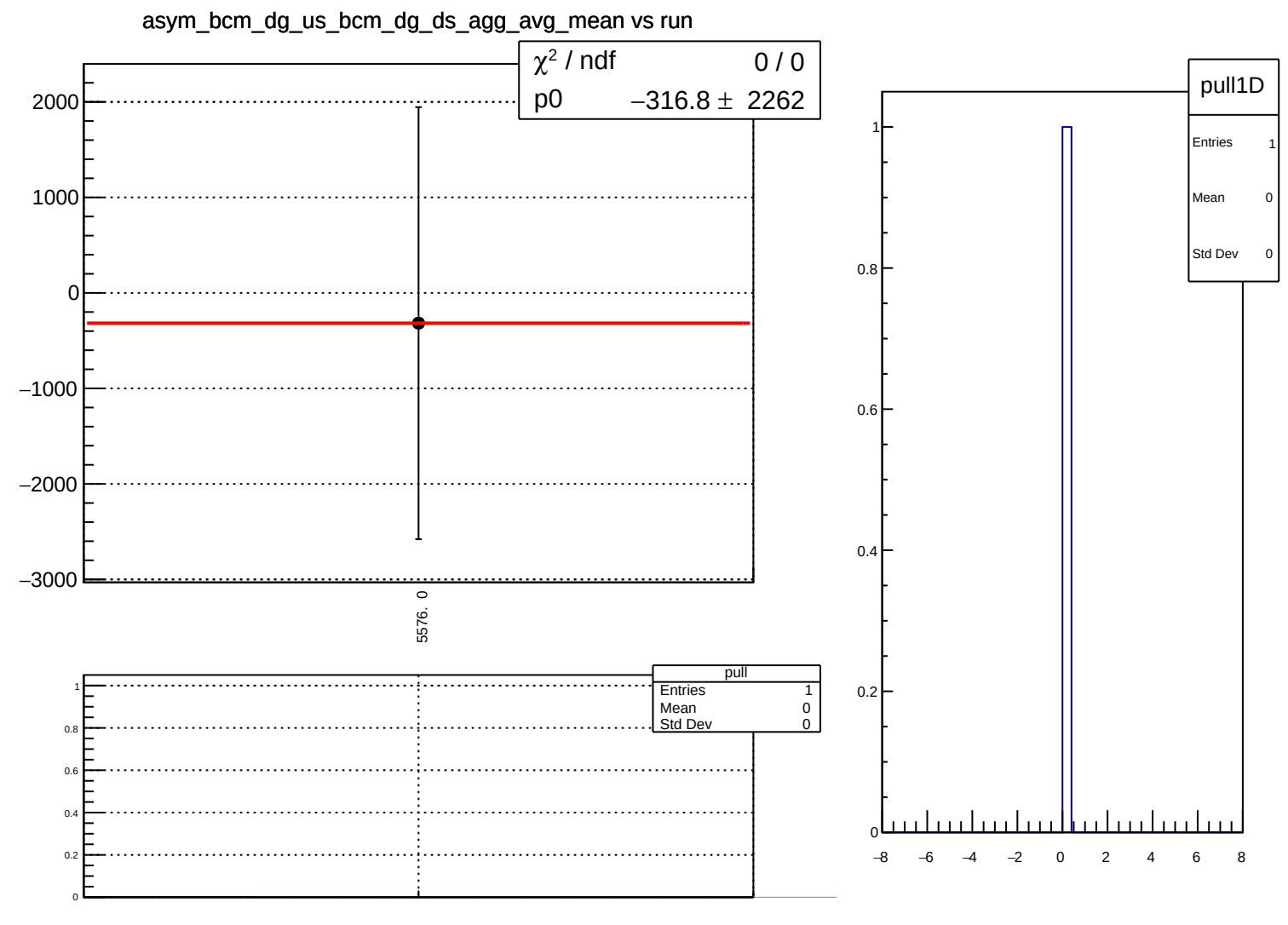

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −324.4 ± 2202
2000
1000
0
−1000
−2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

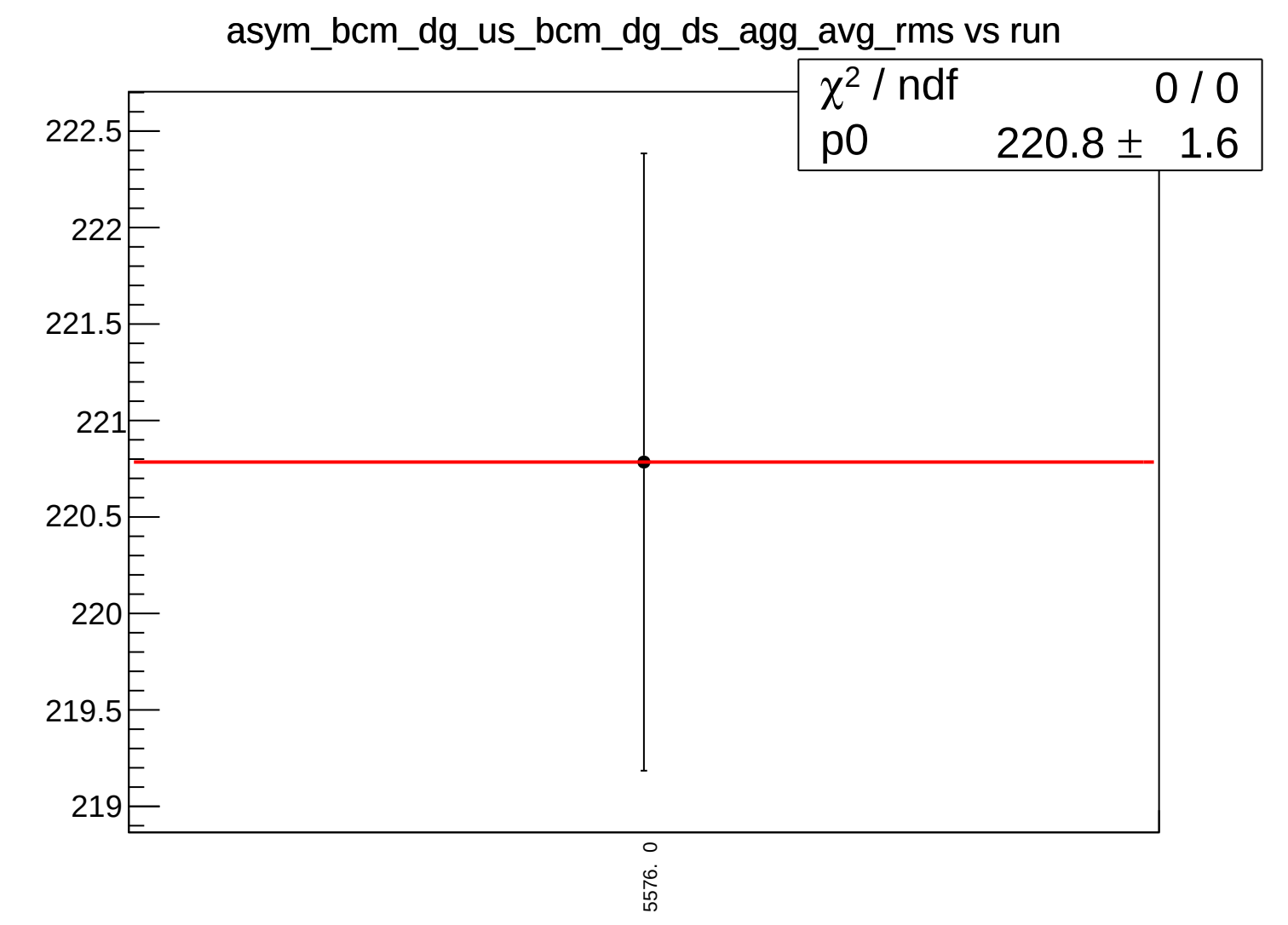

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

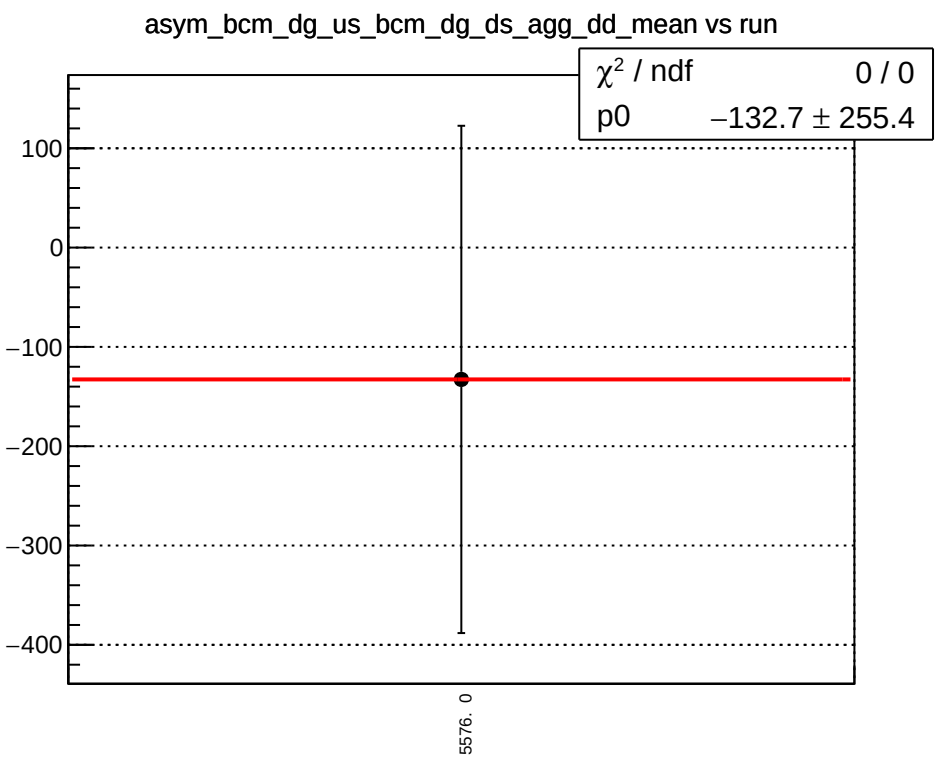

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.331e−28 / 0
p0 214.9 ± 1.557
216.5
216
215.5
215
214.5
214
213.5
5576. 0

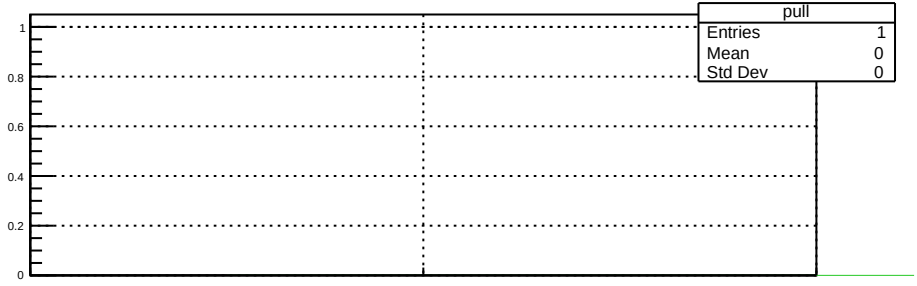

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 140.3 ± 169.5
300
250
200
150
100
50
0
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

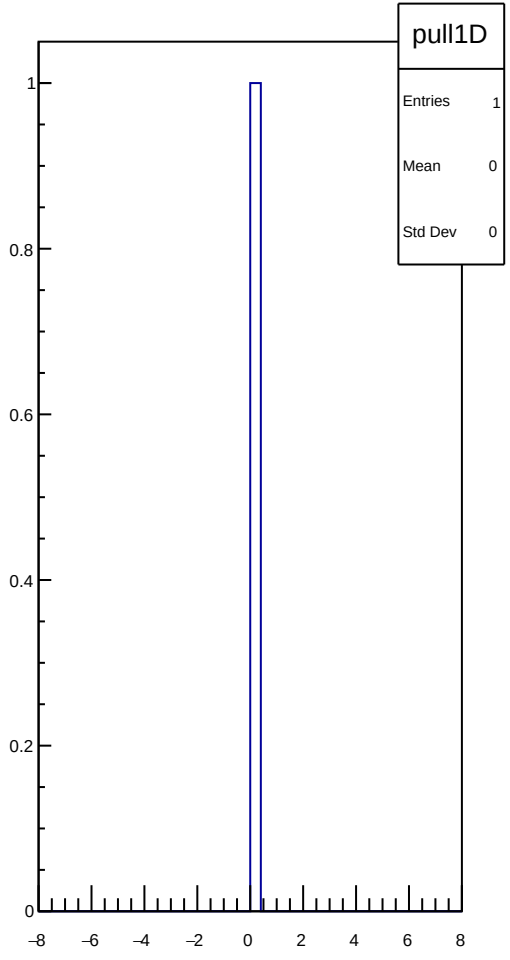

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 16.54 ± 0.1198
16.65
16.6
16.55
16.5
16.45
16.4
5576. 0


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −316.8 ± 2262
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 220.8 ± 1.6
222.5
222
221.5
221
220.5
220
219.5
219
5576. 0


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −132.7 ± 255.4
100
0
−100
−200
−300
−400
5576. 0


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


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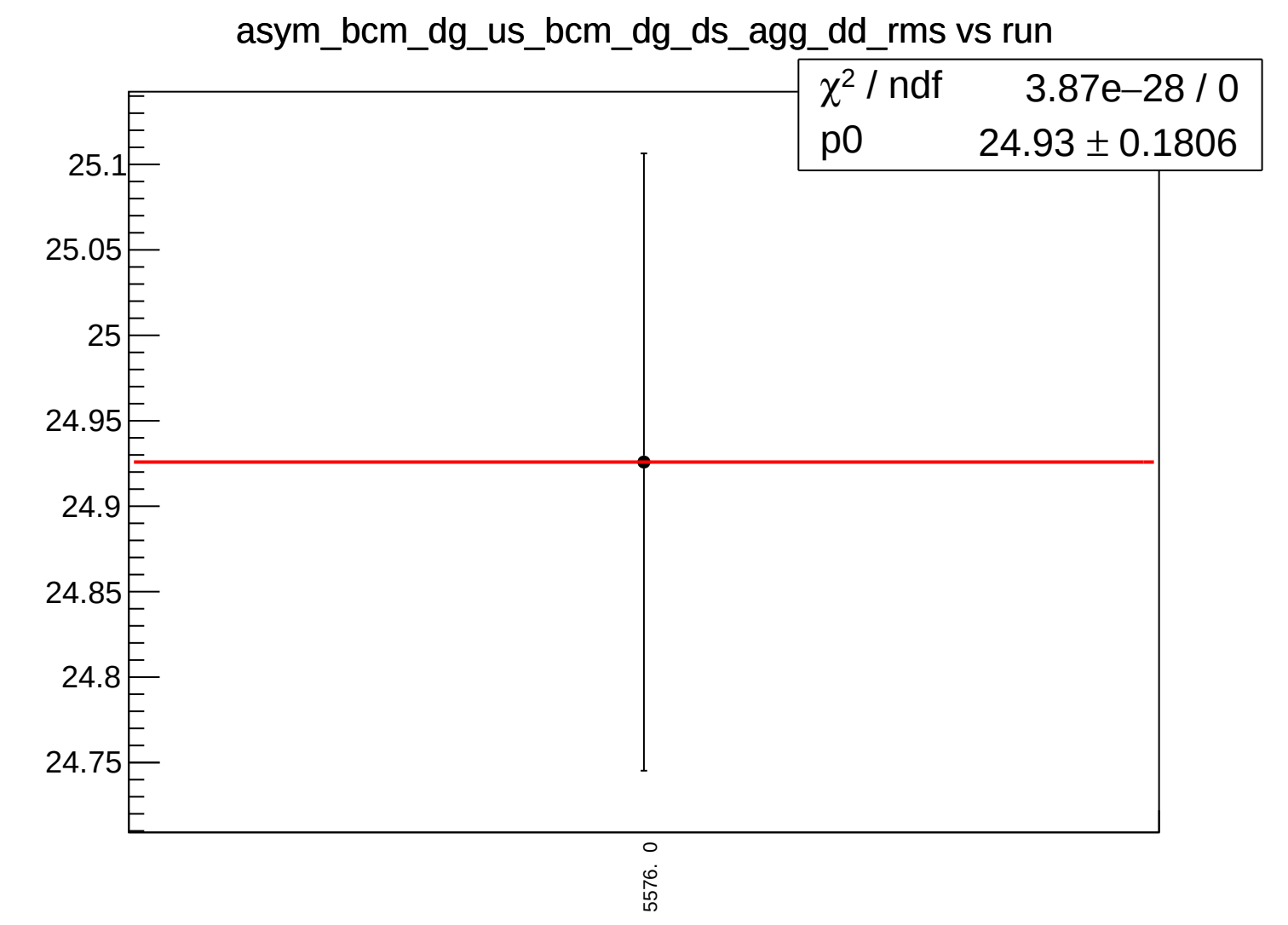
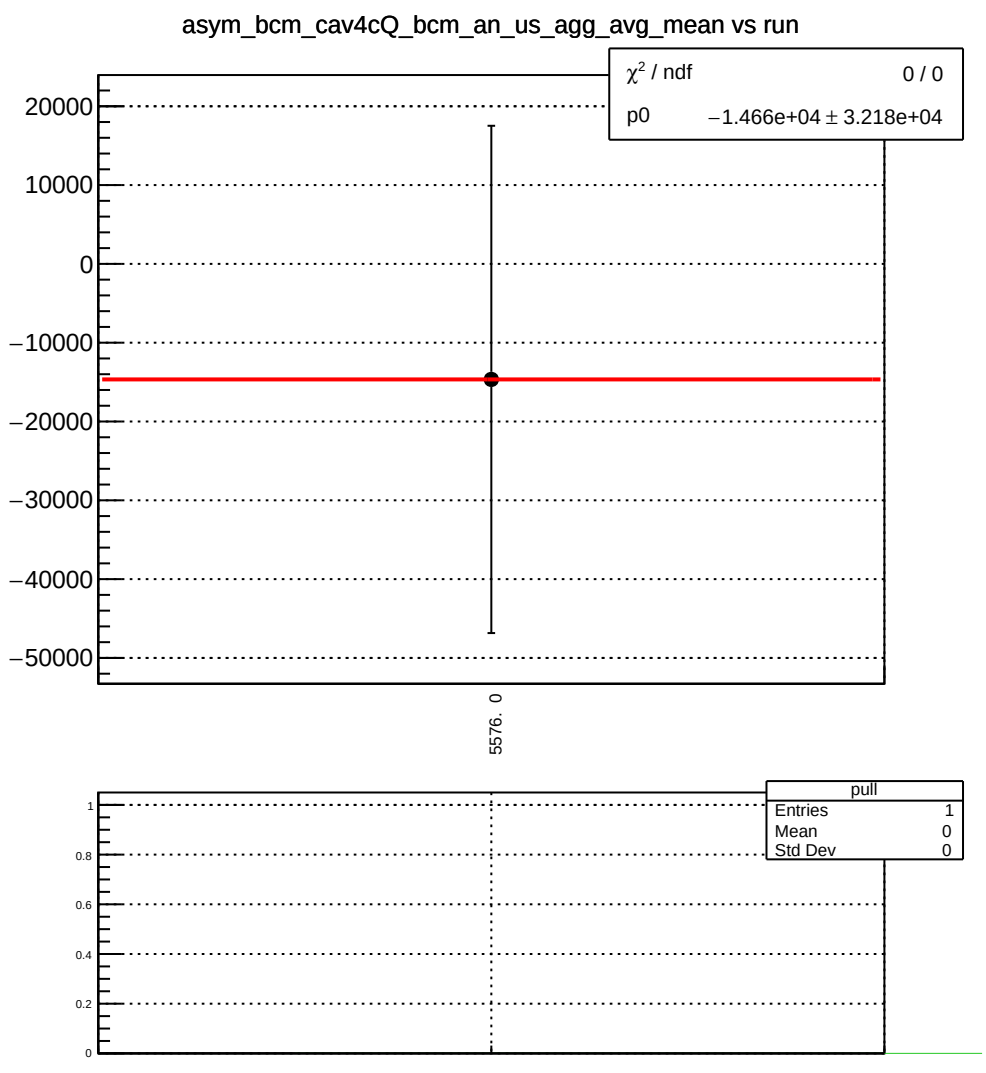
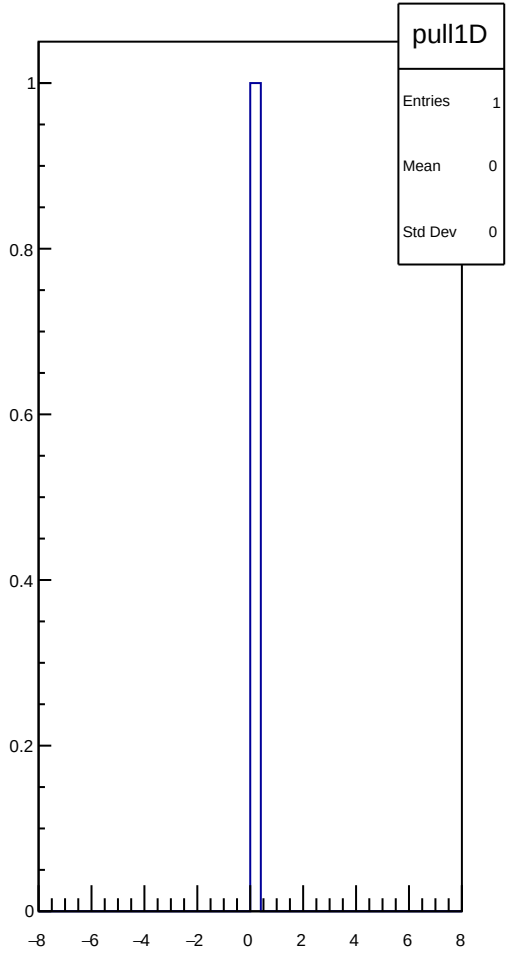
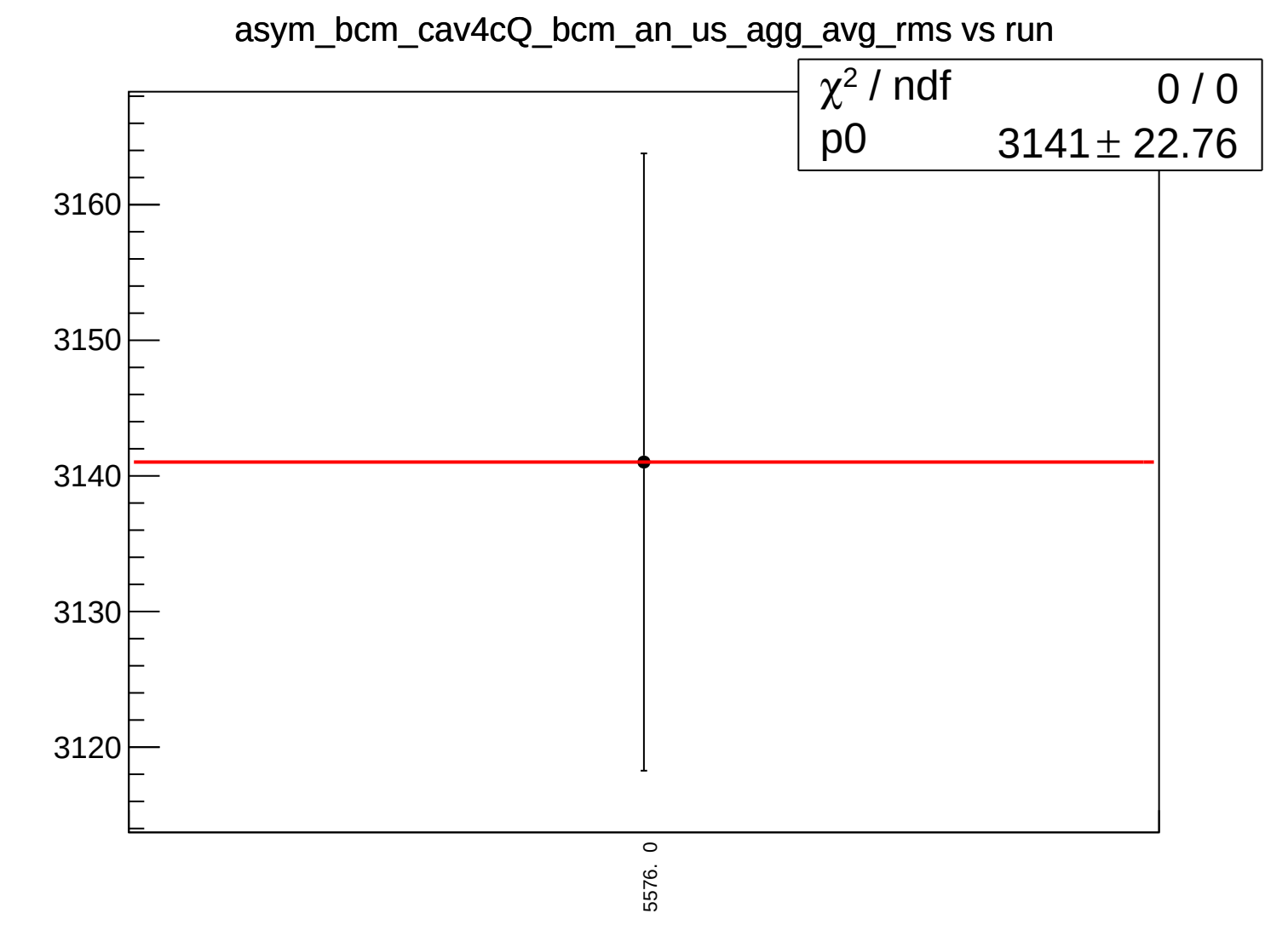
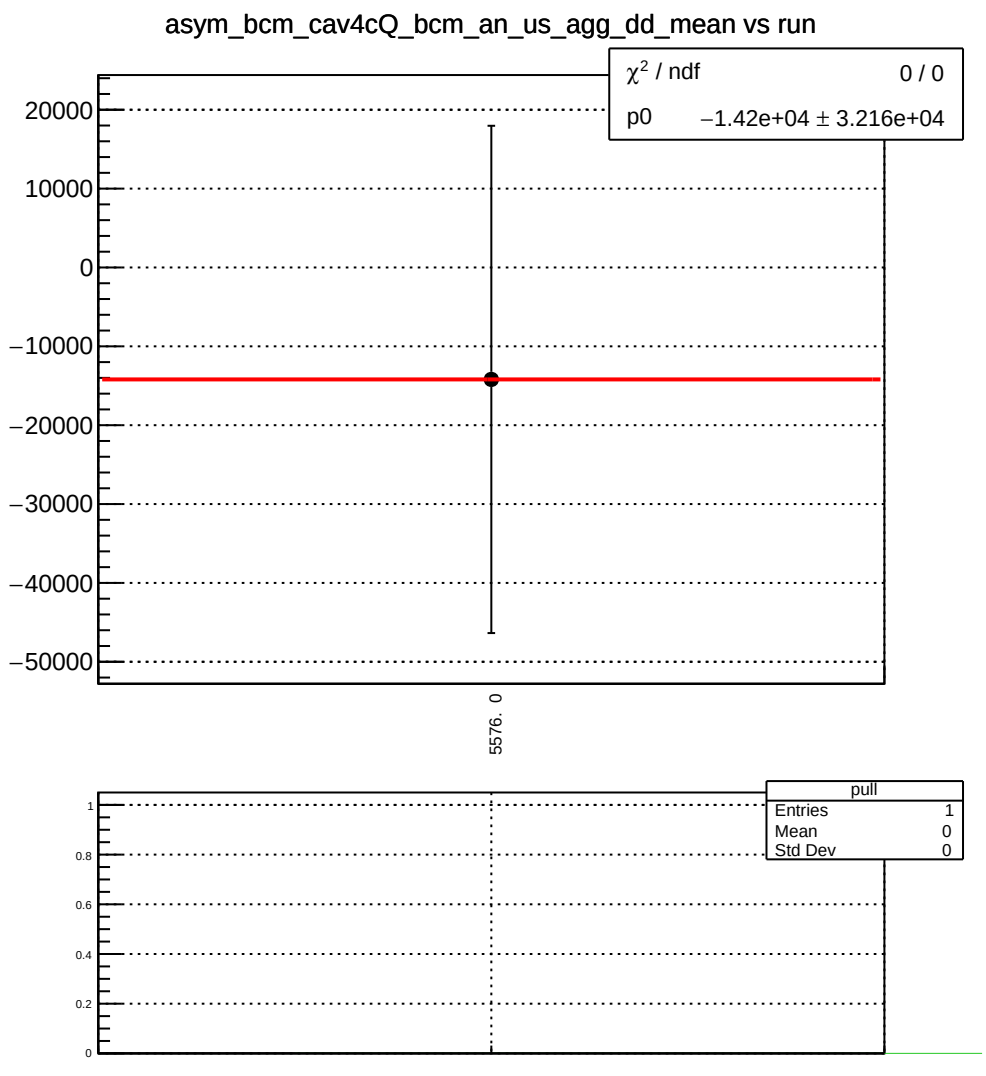
0
2
4
6
8

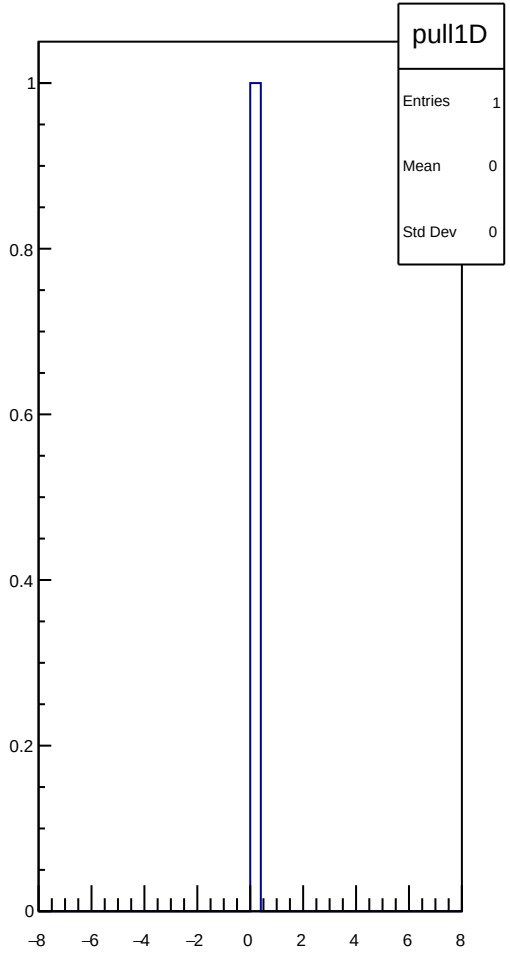

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3.87e–28 / 0
p0 24.93 ± 0.1806
25.1
25.05
25
24.95
24.9
24.85
24.8
24.75
5576. 0

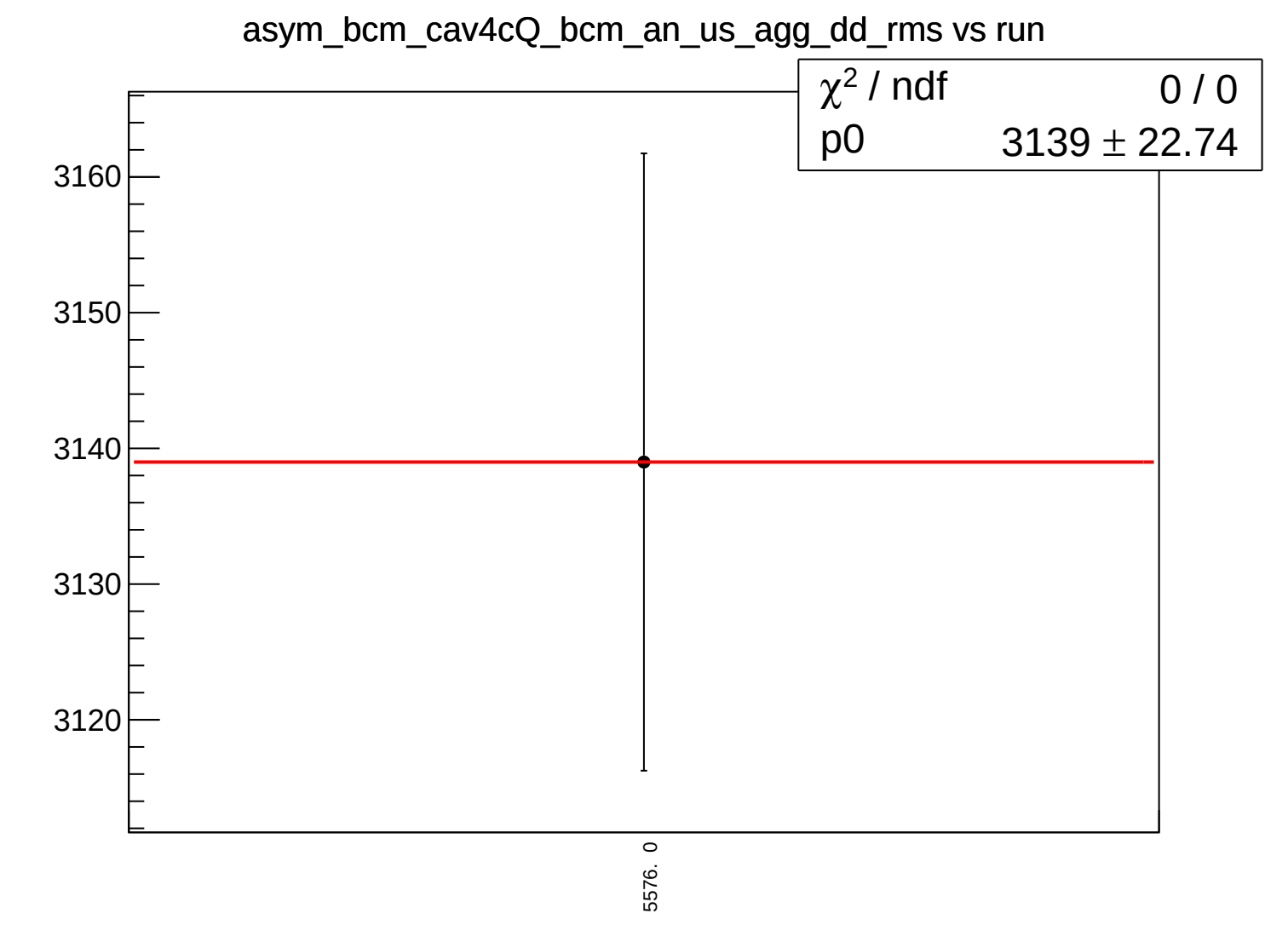

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −1.466e+04 ± 3.218e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

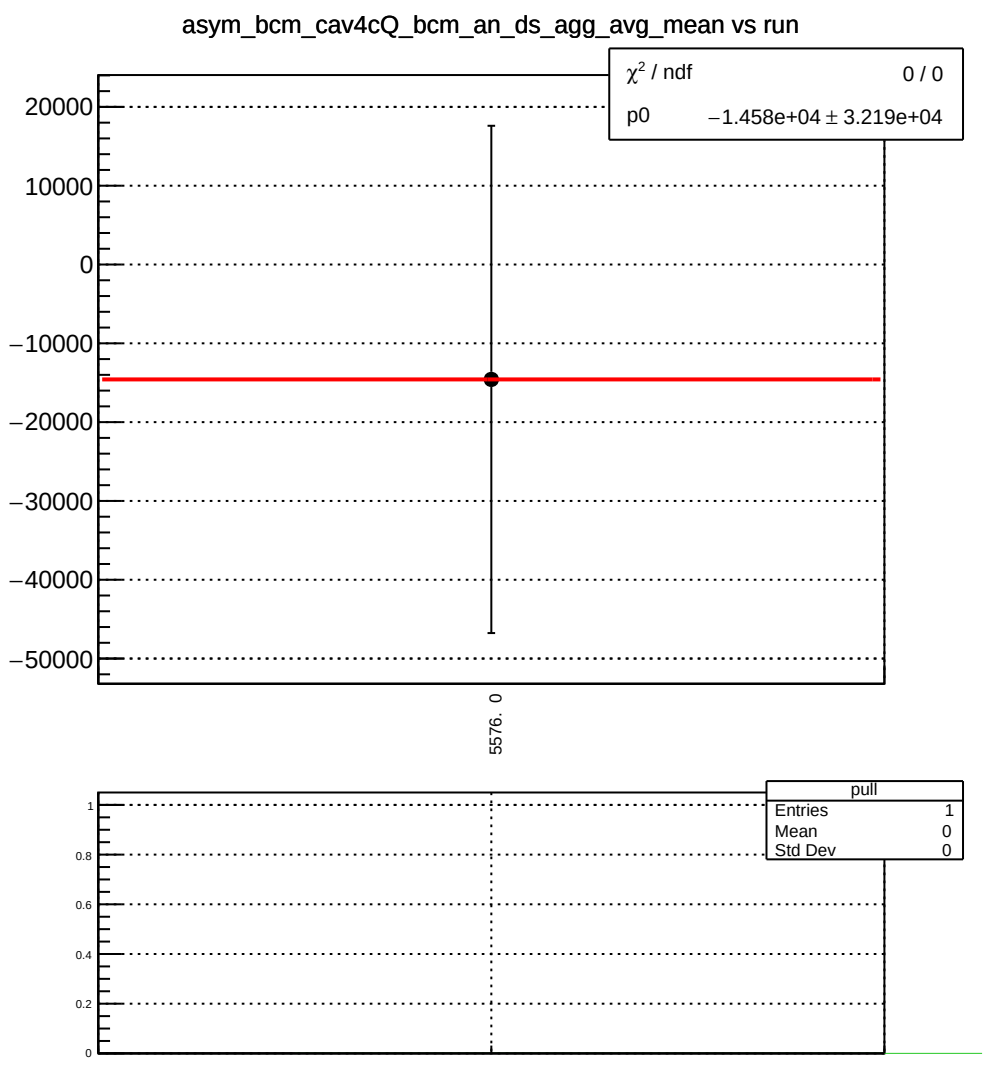

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

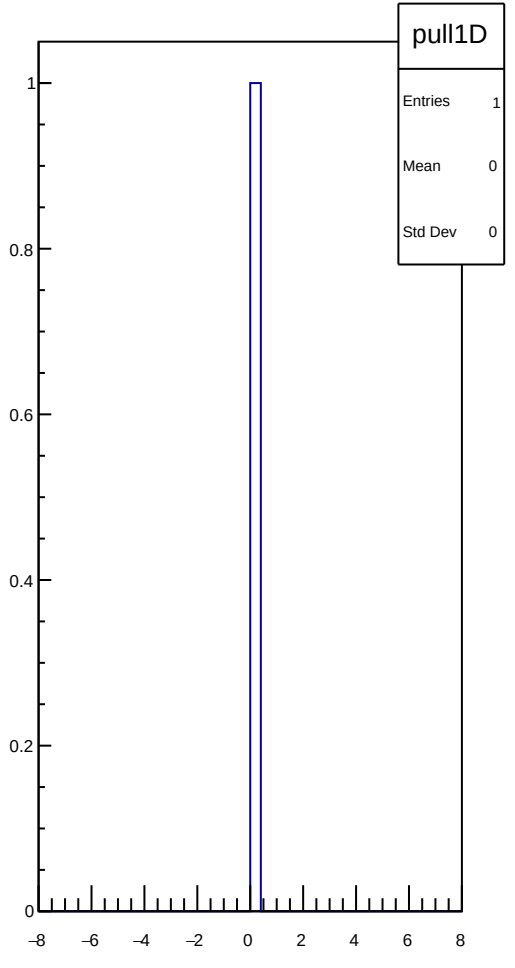

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 3141 ± 22.76
3160
3150
3140
3130
3120
5576. 0

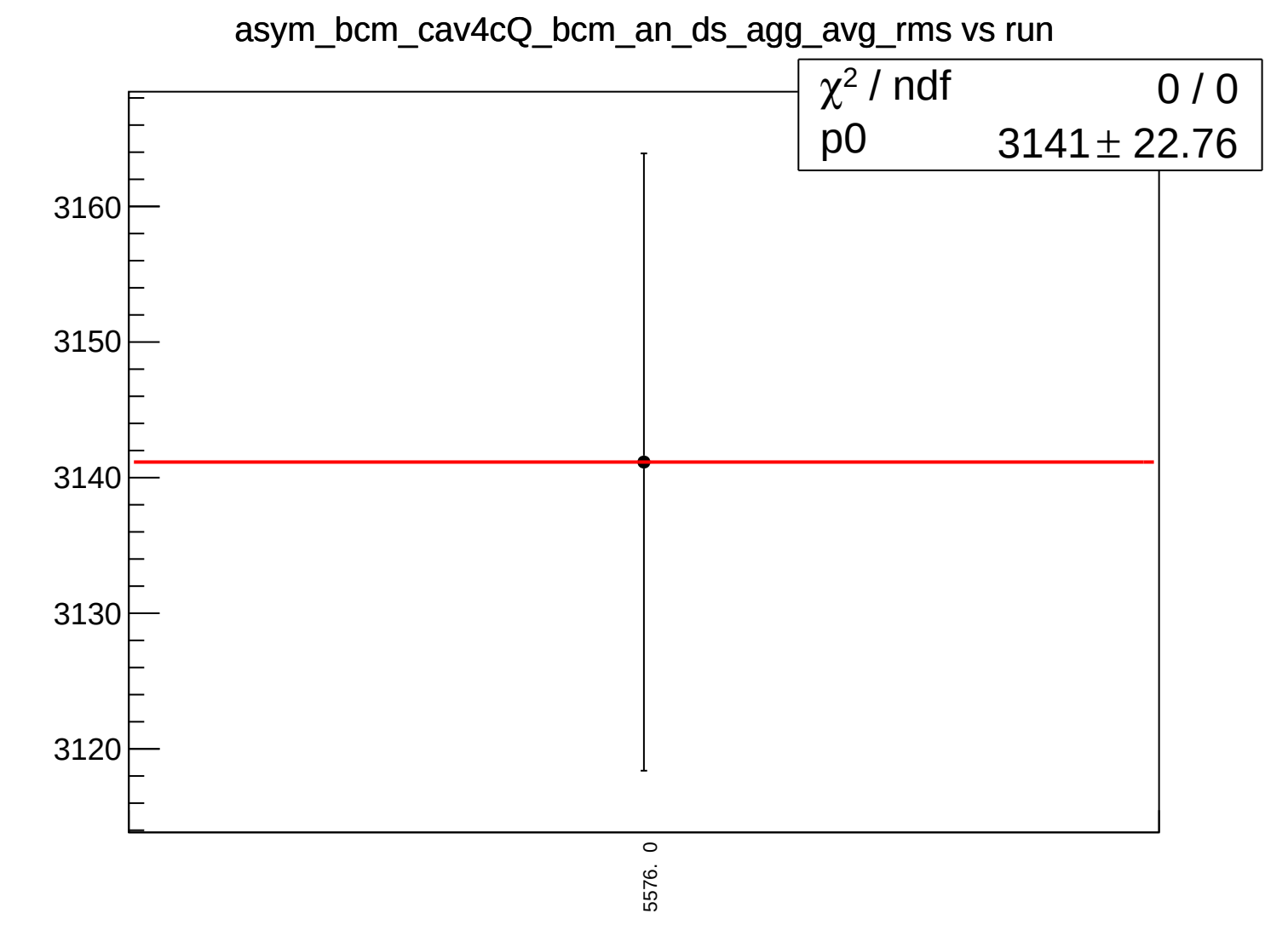

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.42e+04 ± 3.216e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

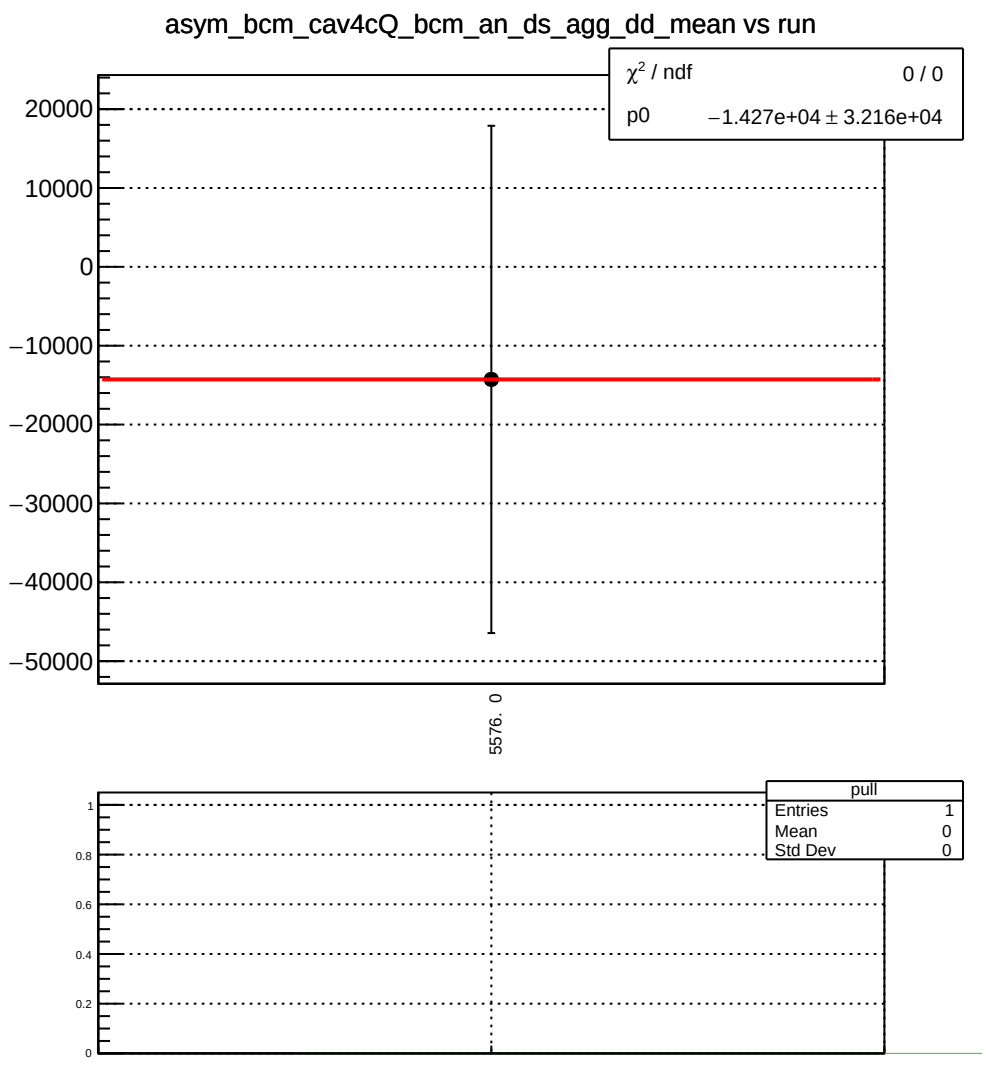

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

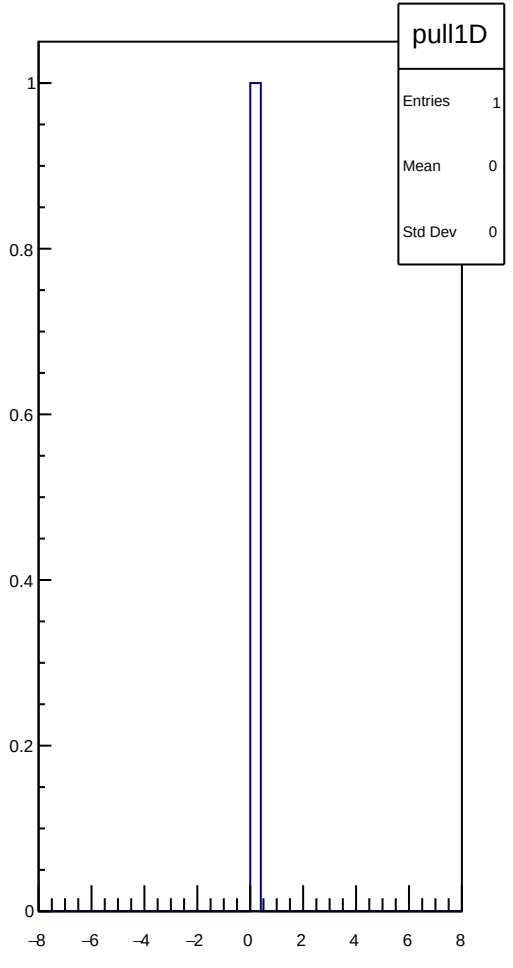

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 3139 ± 22.74
3160
3150
3140
3130
3120
5576. 0

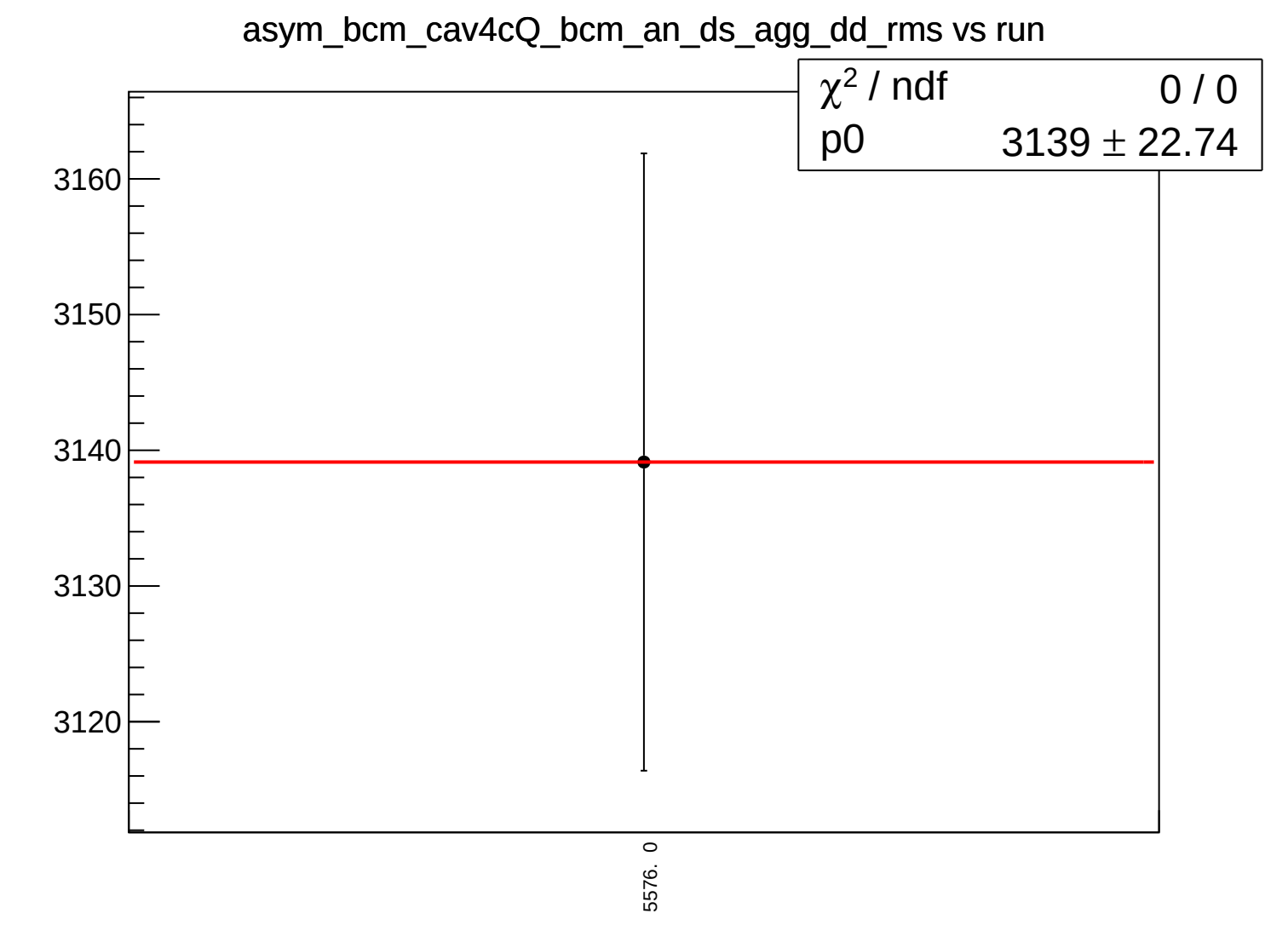

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −1.458e+04 ± 3.219e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

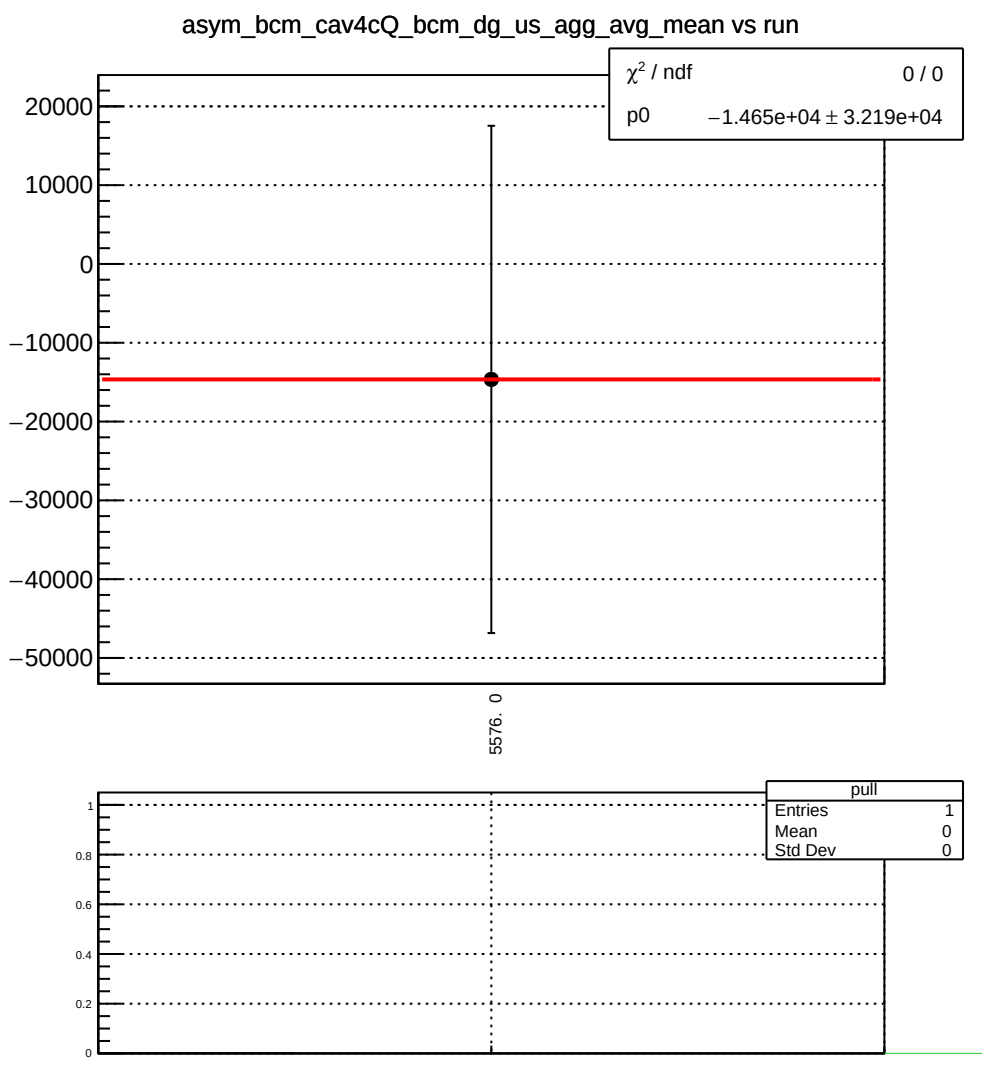

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

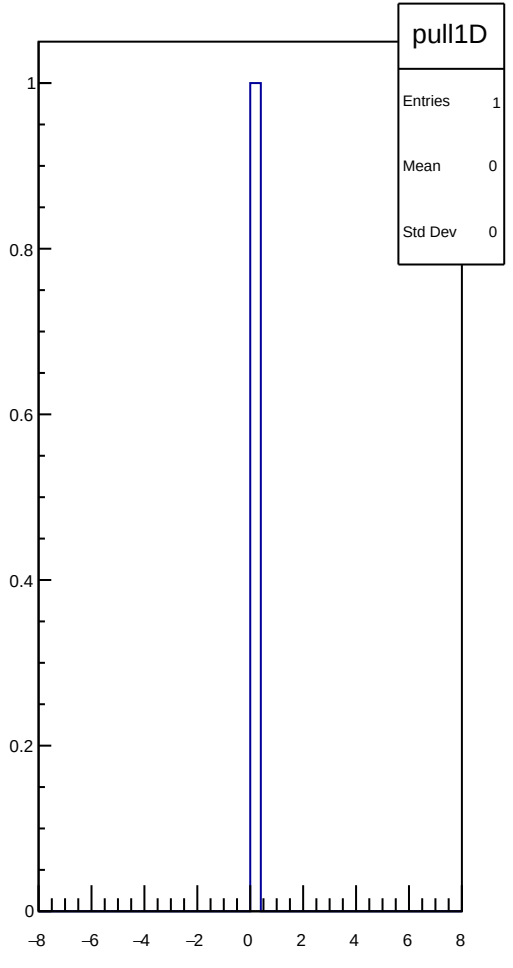

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 3141 ± 22.76
3160
3150
3140
3130
3120
5576. 0

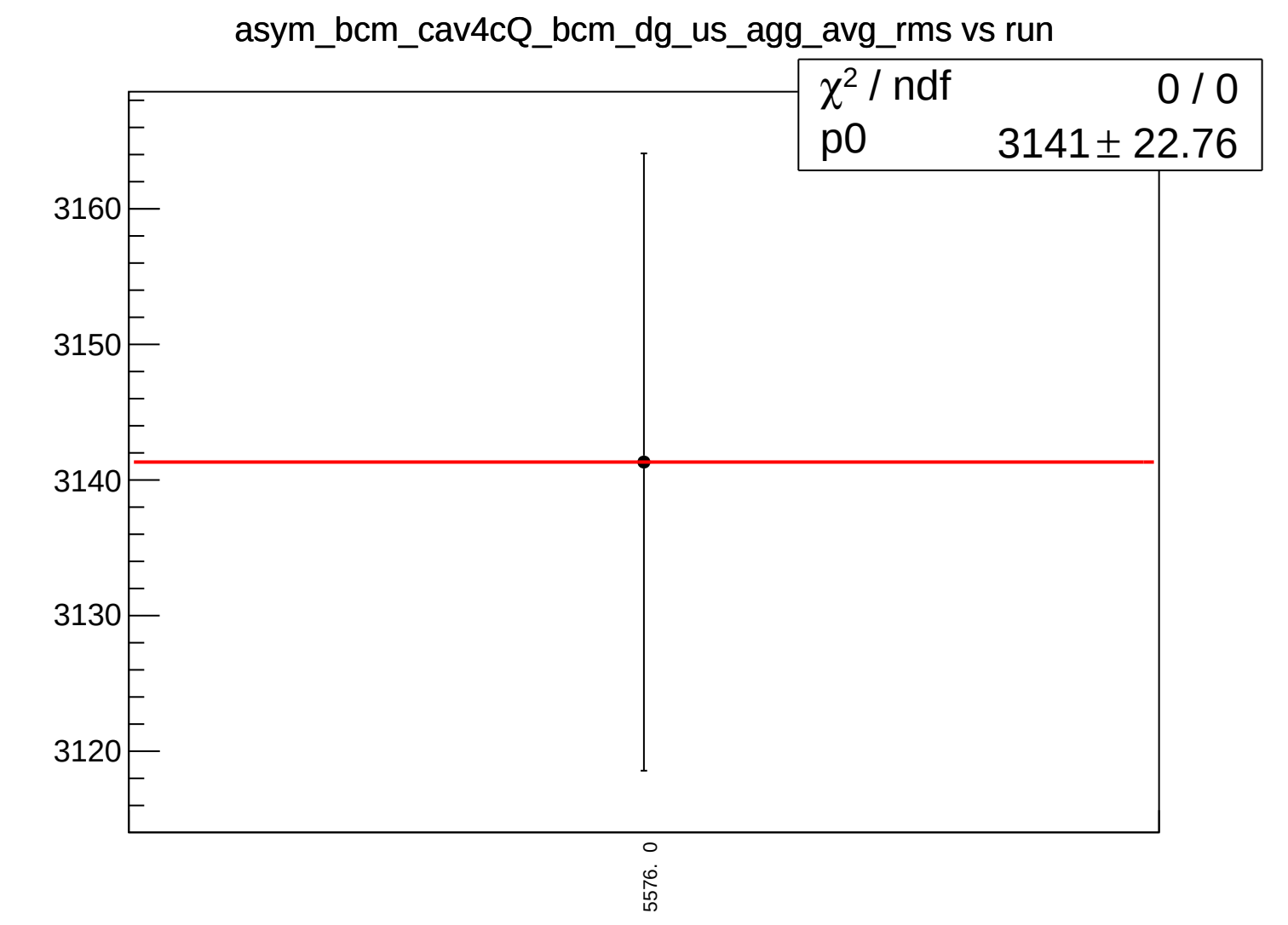

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.427e+04 ± 3.216e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

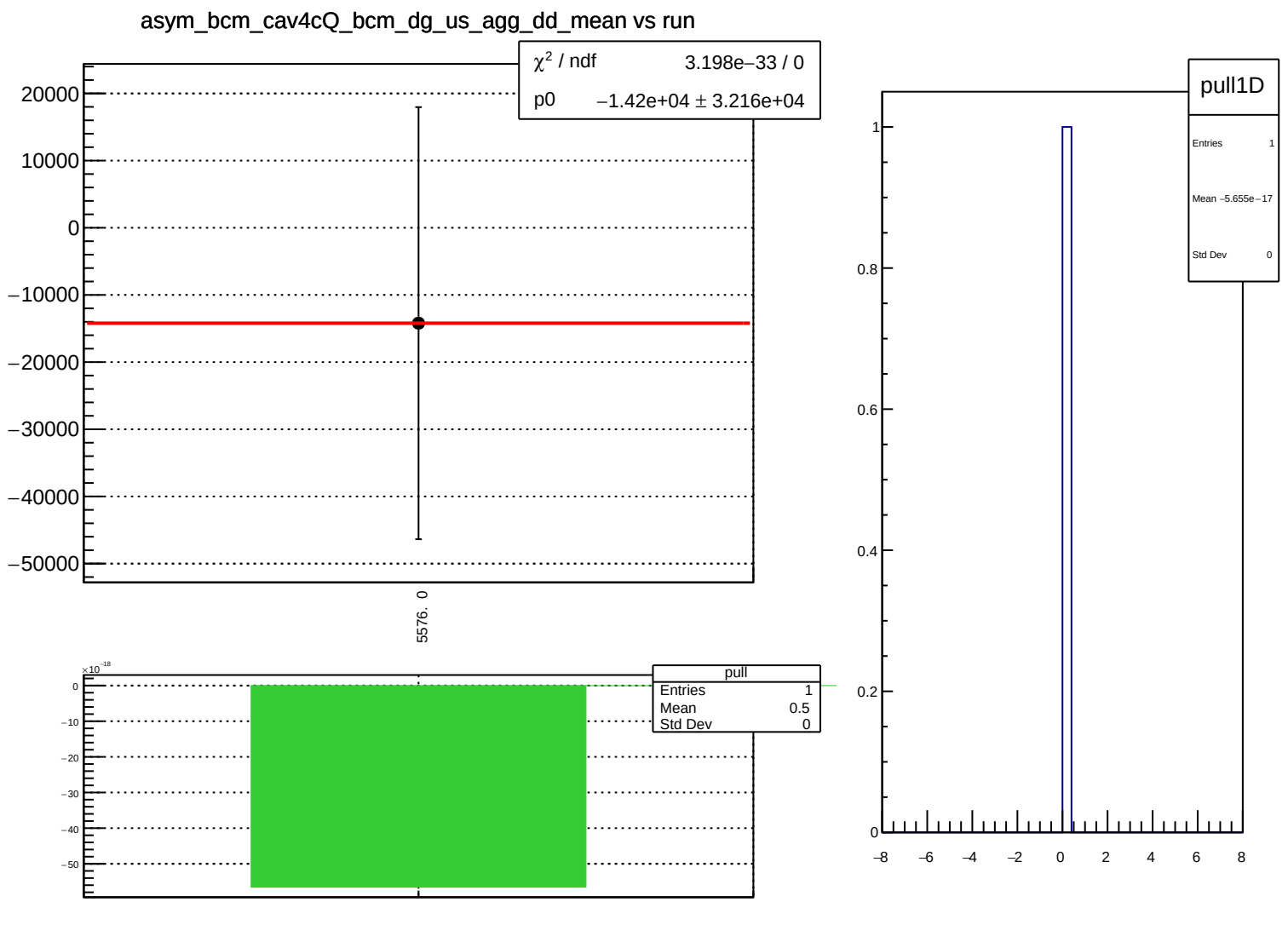

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

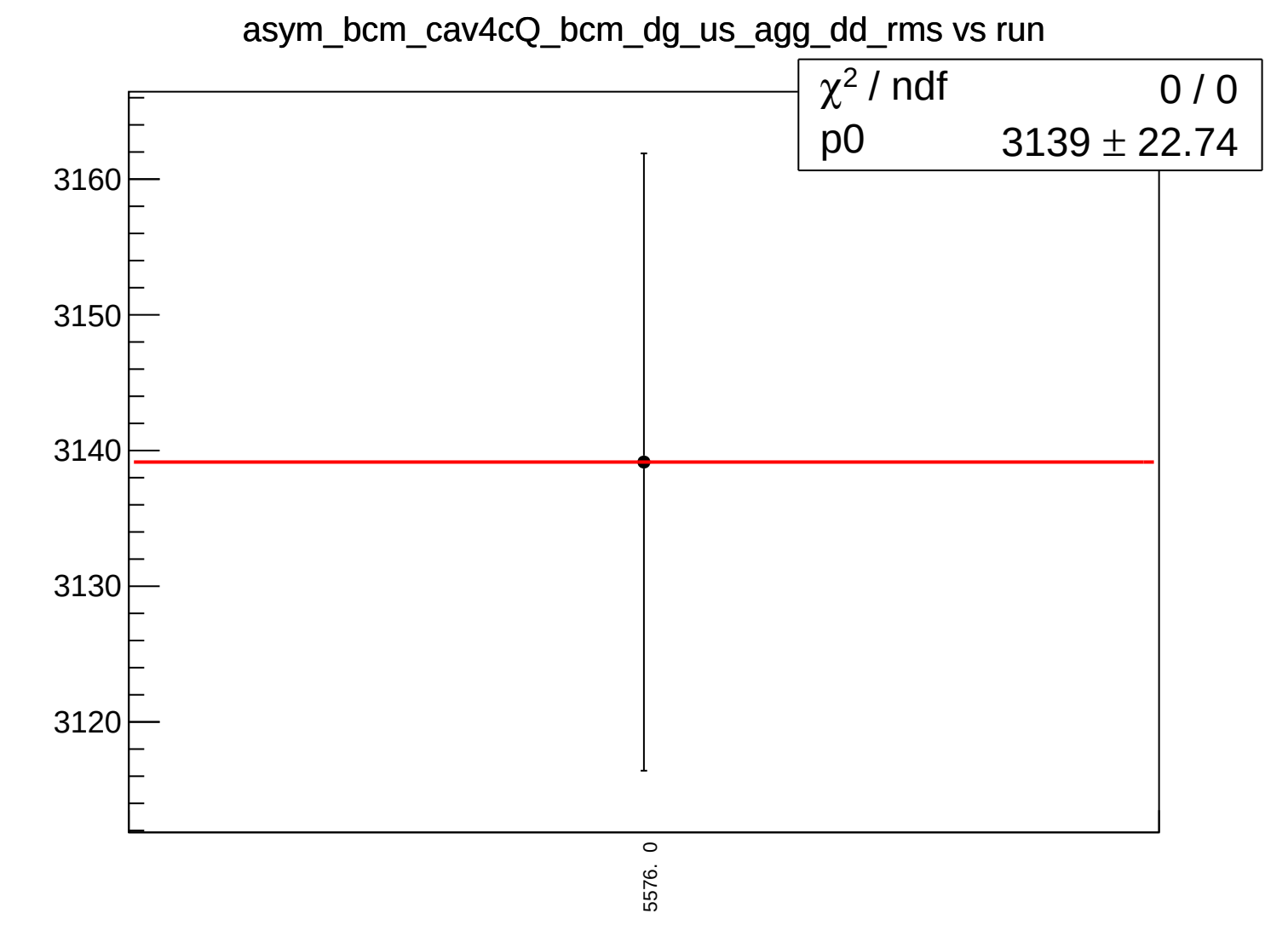

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 3139 ± 22.74
3160
3150
3140
3130
3120
5576. 0

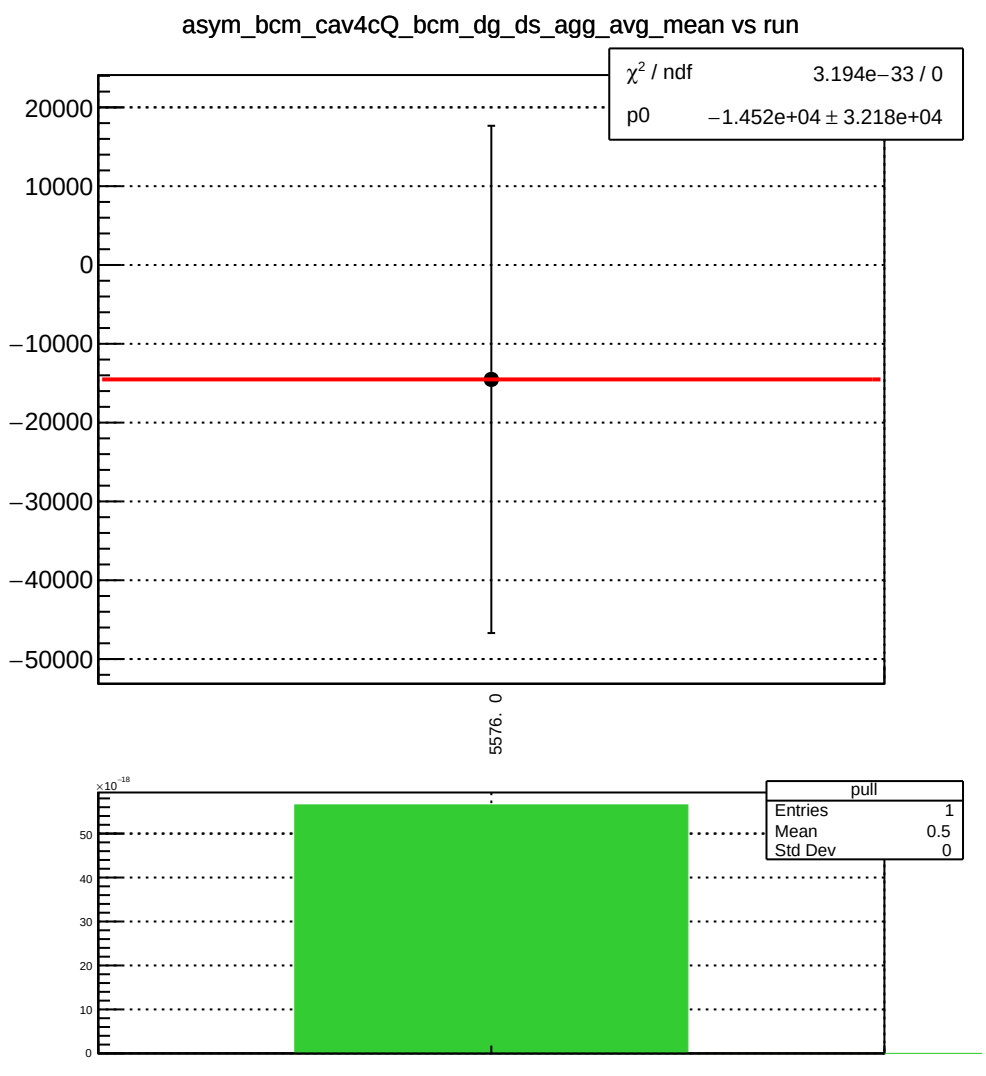

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 0 / 0
p0 −1.465e+04 ± 3.219e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

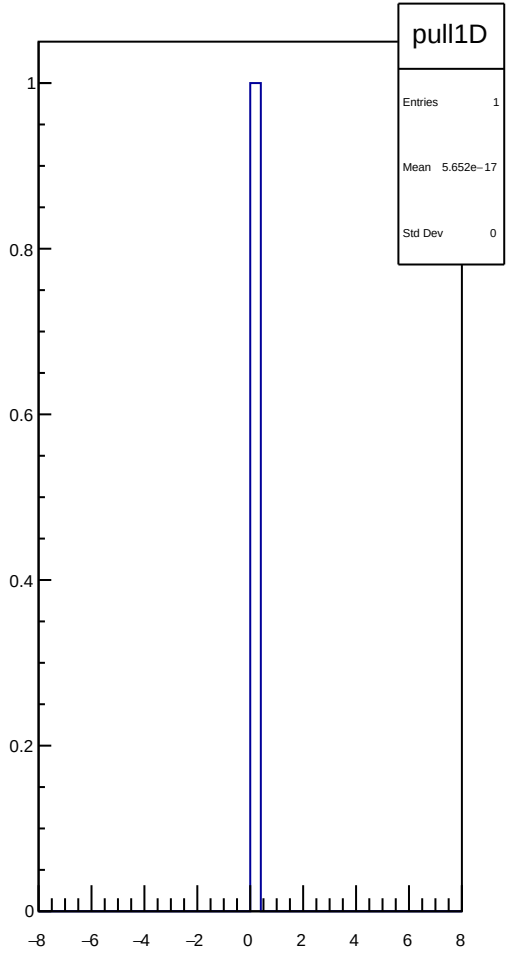

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 3141 ± 22.76
3160
3150
3140
3130
3120
5576. 0


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 3.198e−33 / 0
p0 −1.42e+04 ± 3.216e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −5.655e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 3139 ± 22.74
3160
3150
3140
3130
3120
5576. 0


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.194e−33 / 0
p0 −1.452e+04 ± 3.218e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 5.652e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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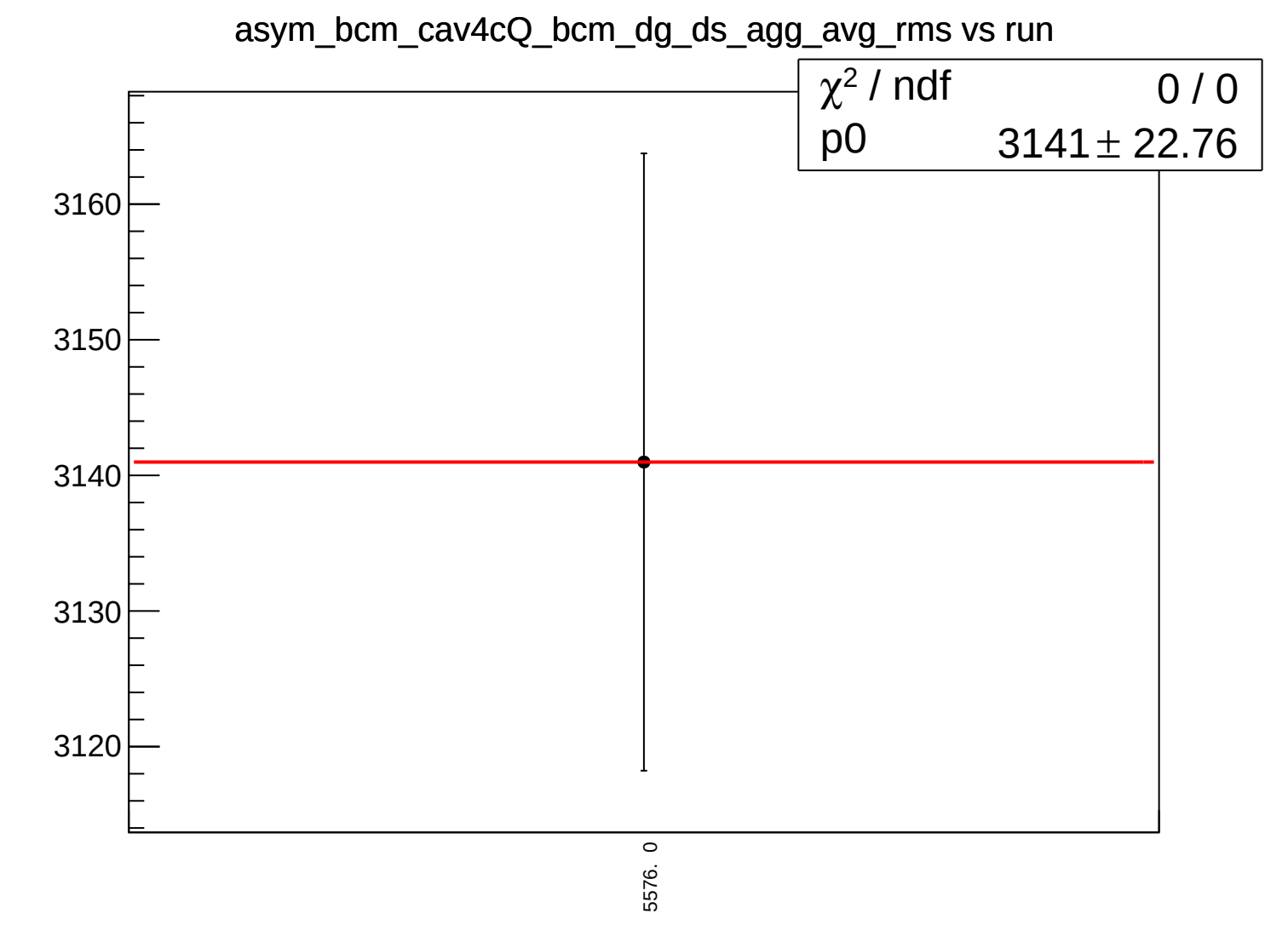
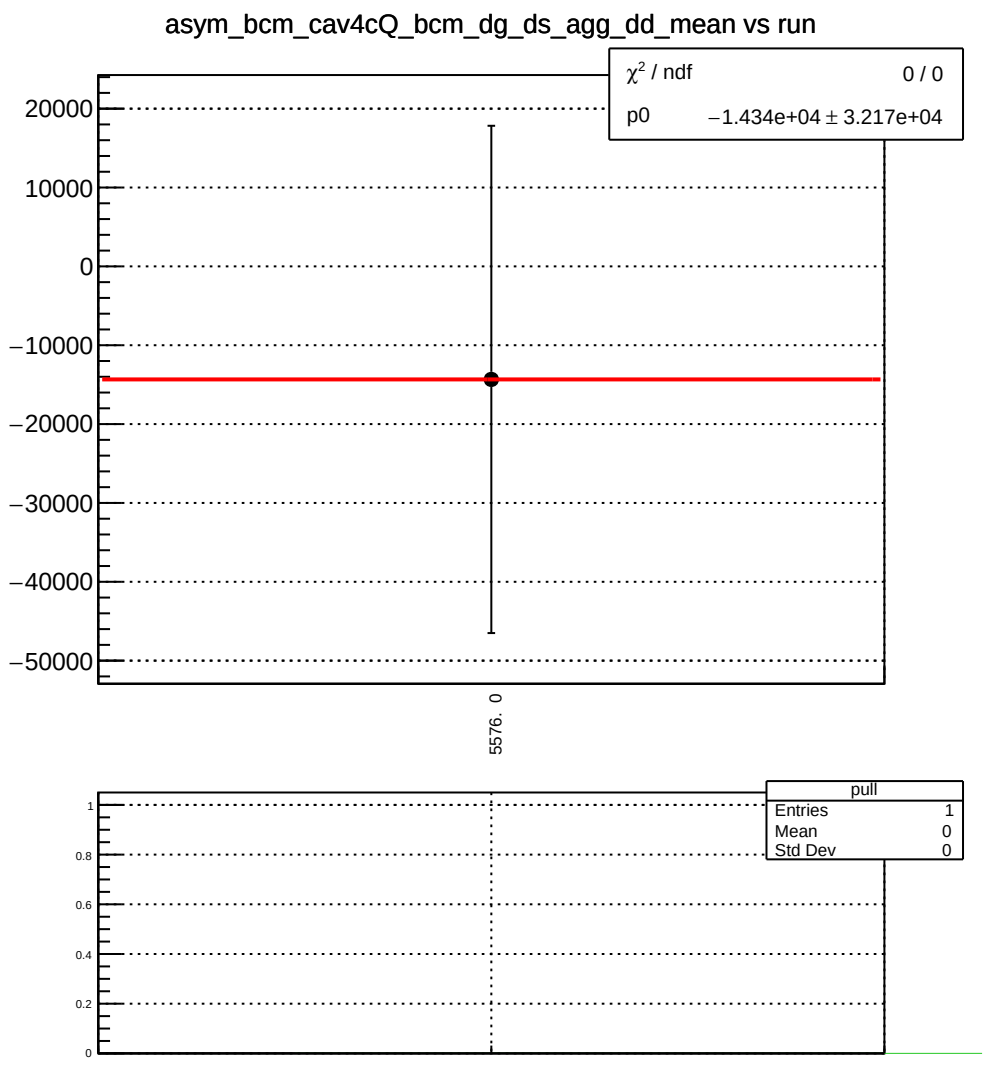
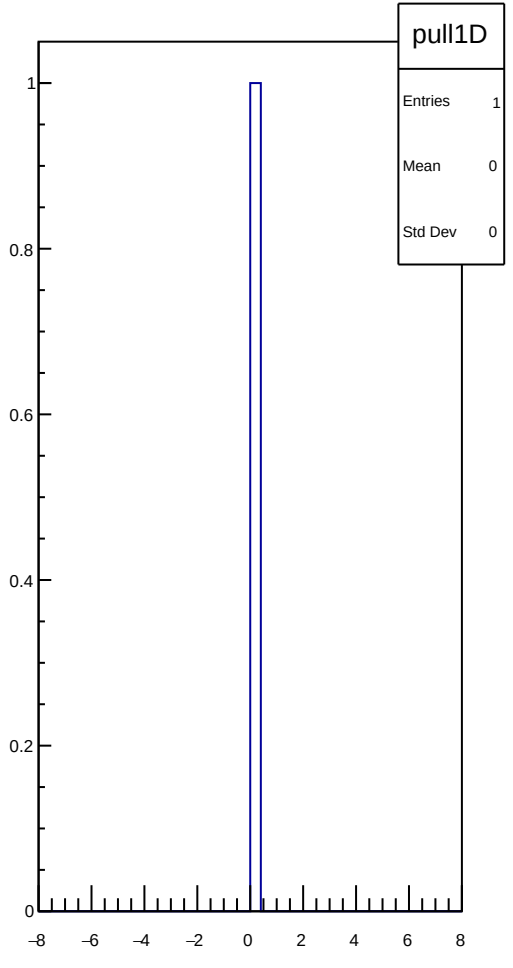
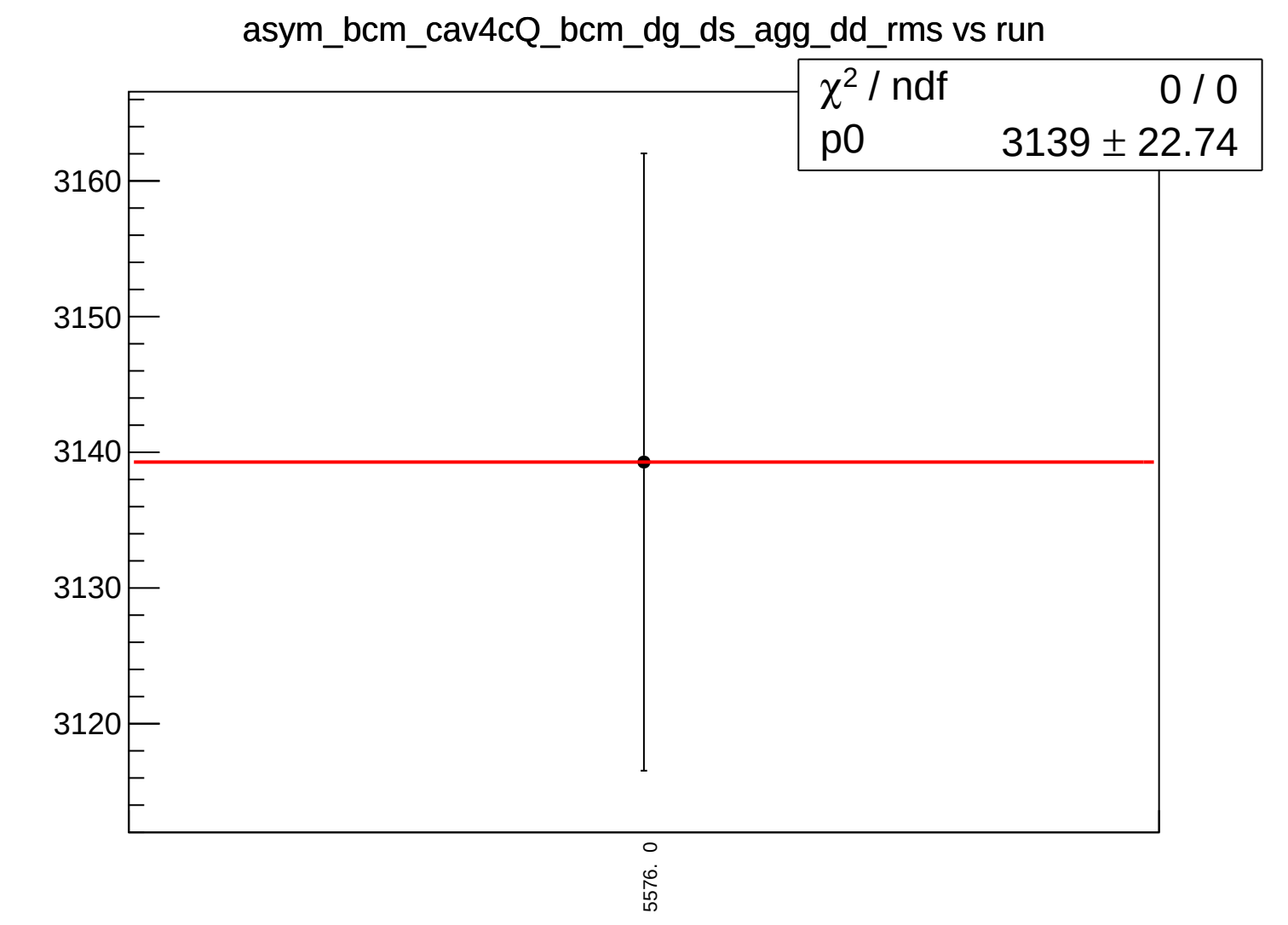
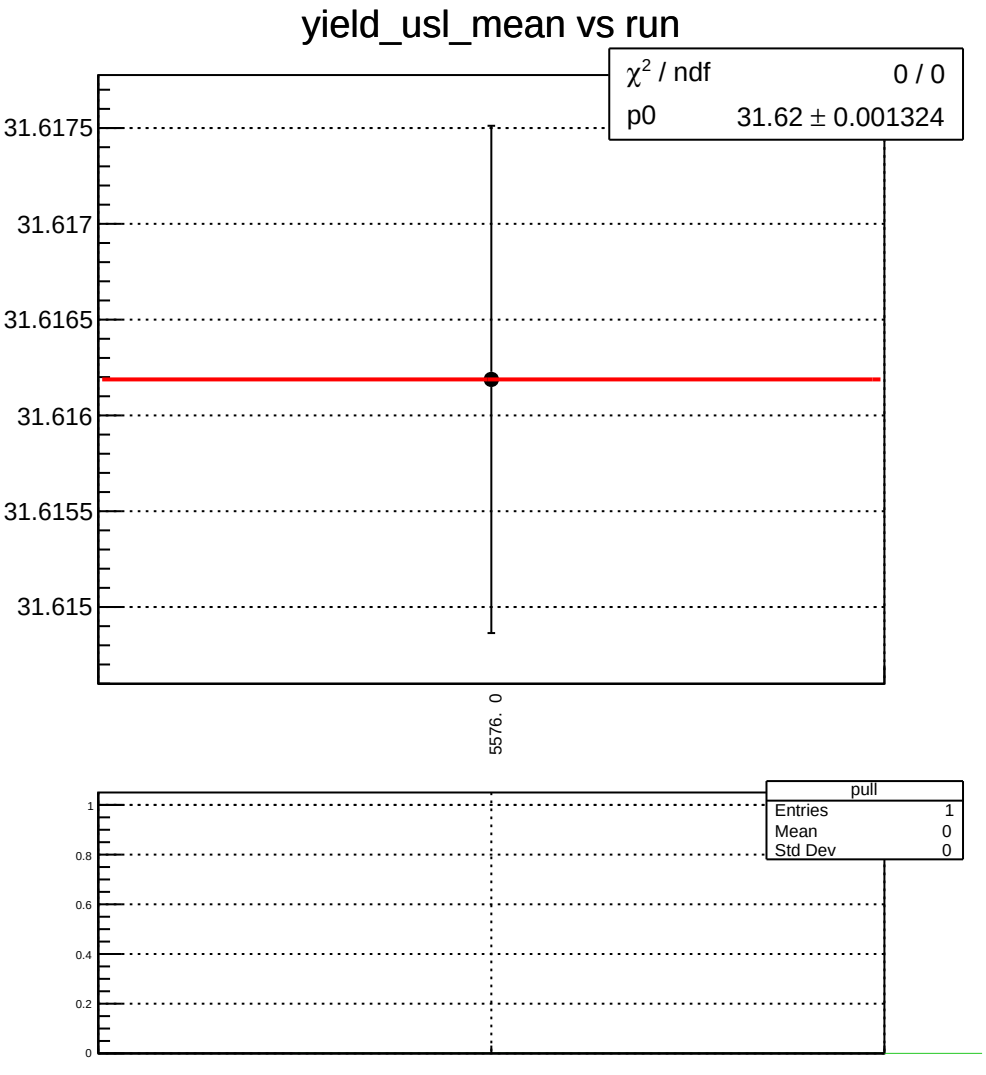
0
2
4
6
8

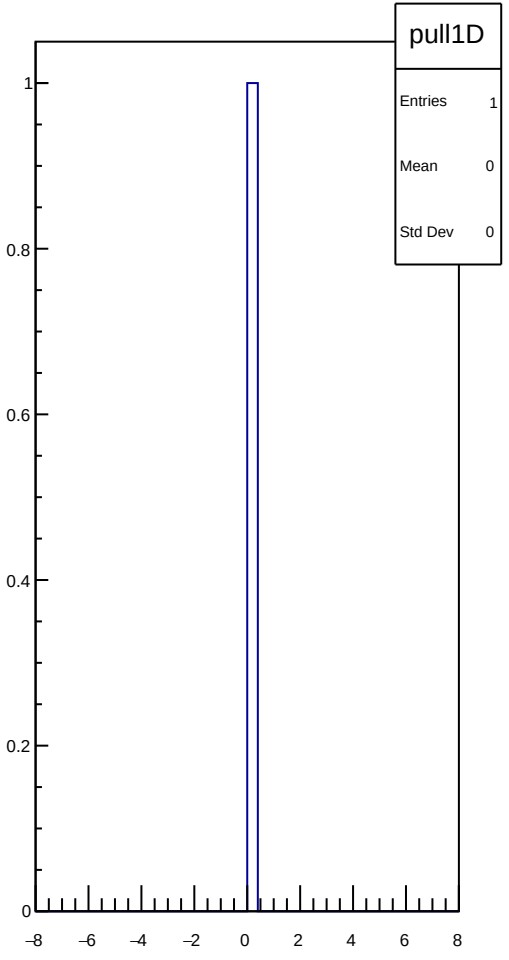

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 0 / 0
p0 3141 ± 22.76
3160
3150
3140
3130
3120
5576. 0

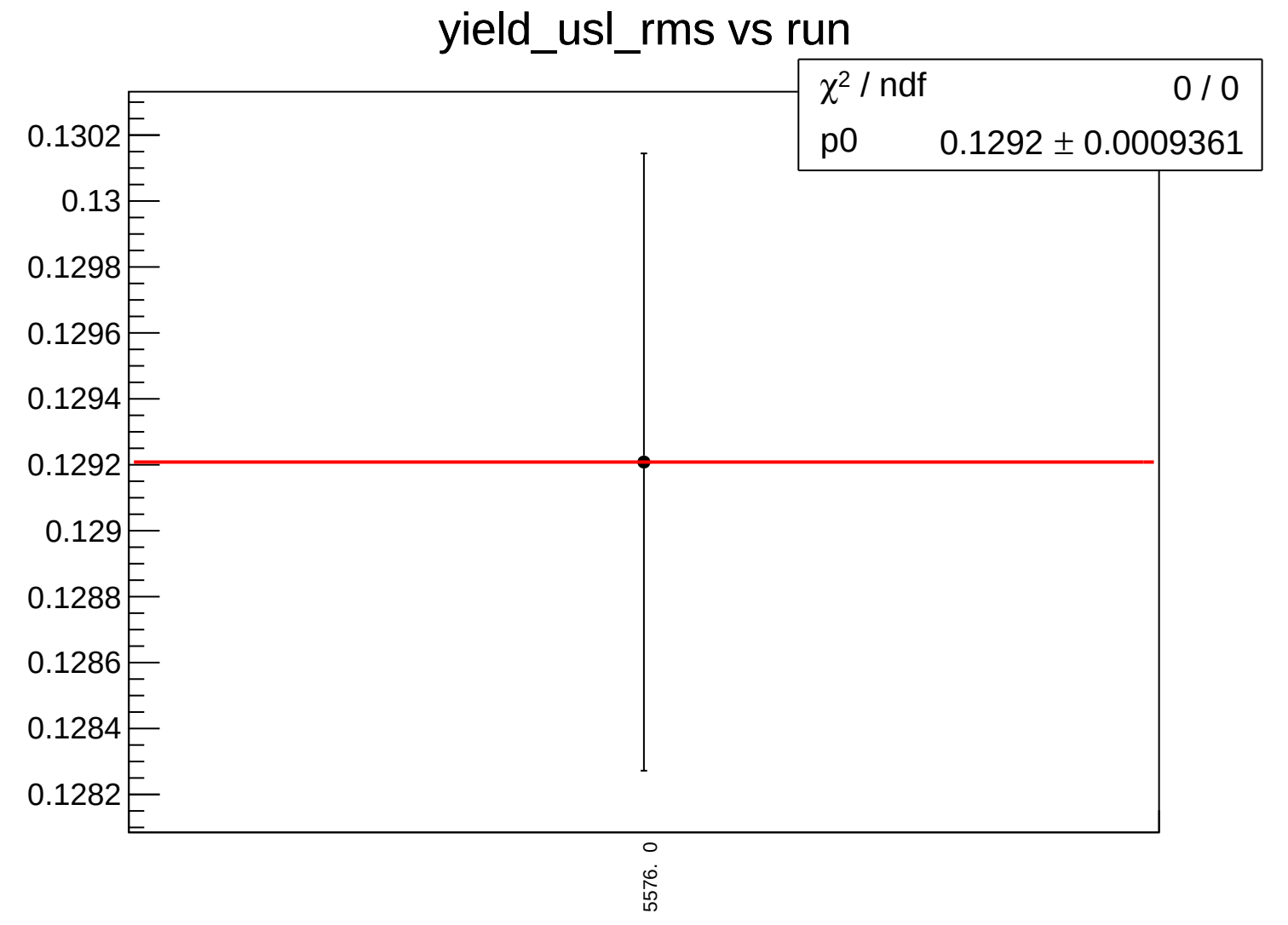

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 0 / 0
p0 −1.434e+04 ± 3.217e+04
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

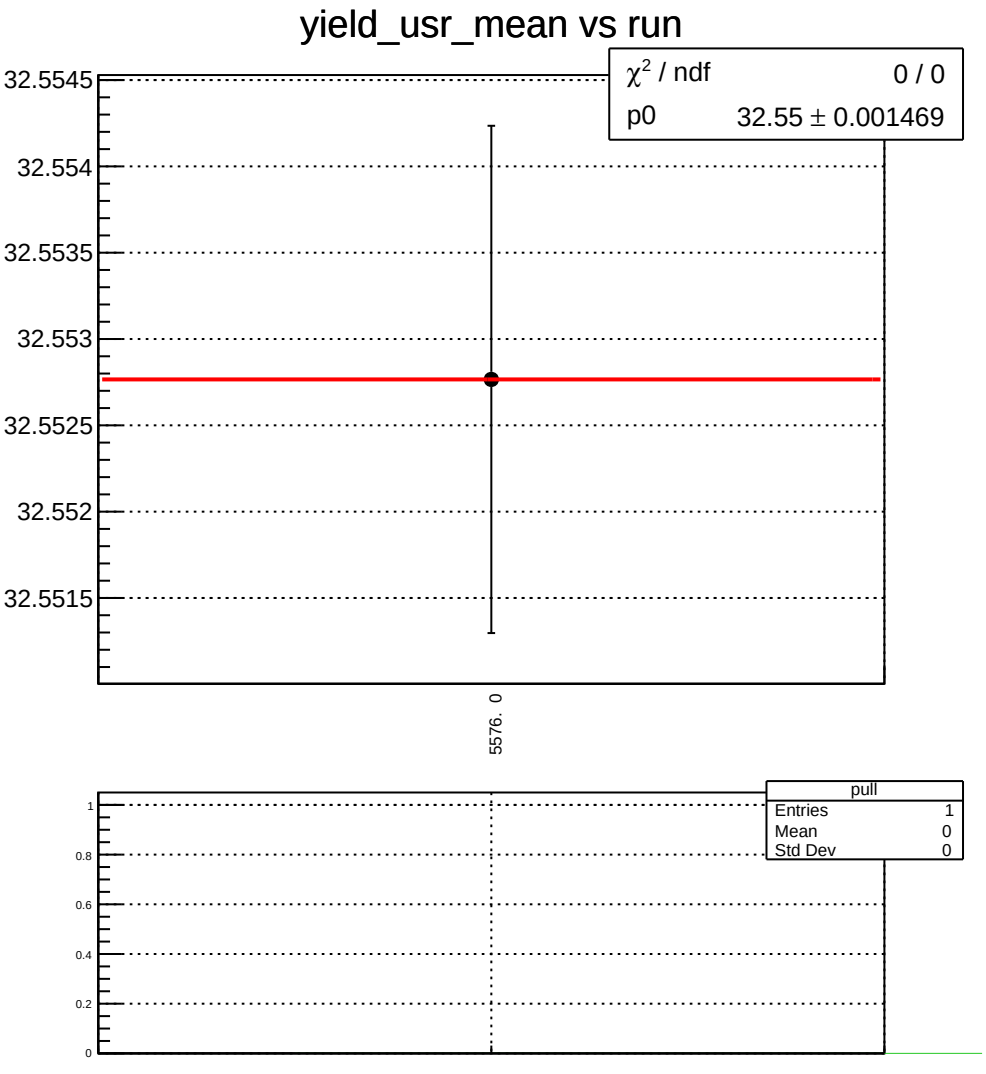

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

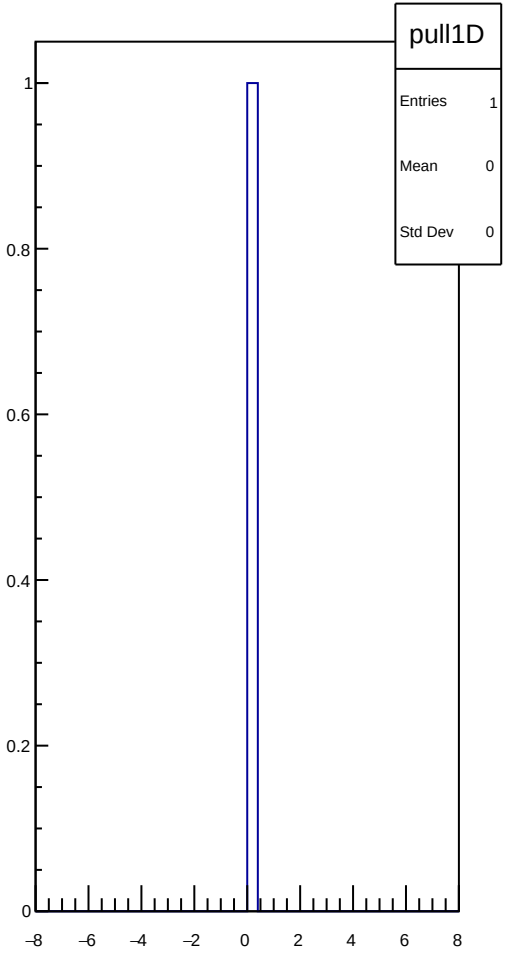

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 0 / 0
p0 3139 ± 22.74
3160
3150
3140
3130
3120
5576. 0


yield_usl_mean vs run
χ² / ndf 0 / 0
p0 31.62 ± 0.001324
31.6175
31.617
31.6165
31.616
31.6155
31.615
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_usl_rms vs run
χ² / ndf 0 / 0
p0 0.1292 ± 0.0009361
0.1302
0.13
0.1298
0.1296
0.1294
0.1292
0.129
0.1288
0.1286
0.1284
0.1282
5576. 0


yield_usr_mean vs run
χ² / ndf 0 / 0
p0 32.55 ± 0.001469
32.5545
32.554
32.5535
32.553
32.5525
32.552
32.5515
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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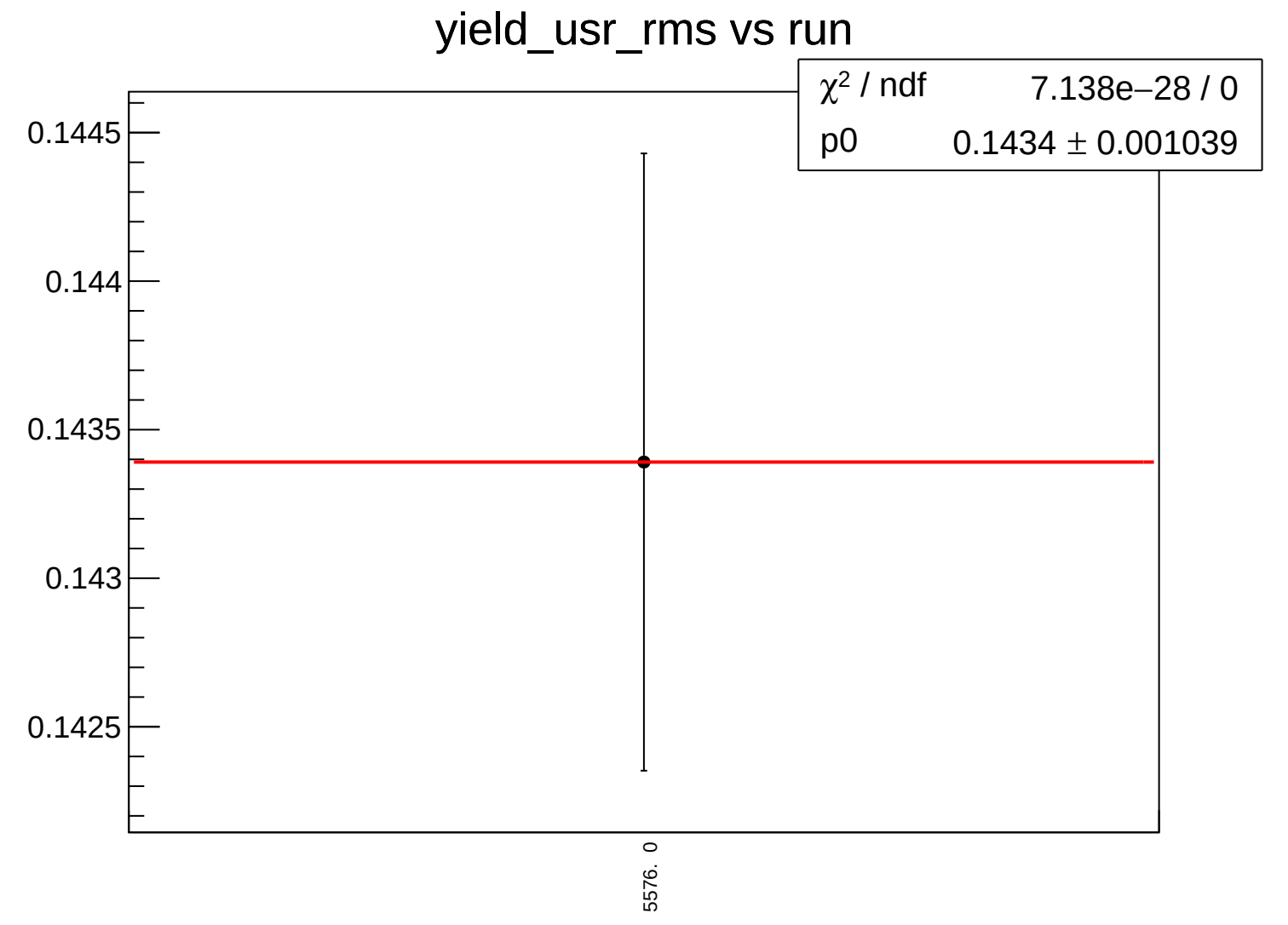
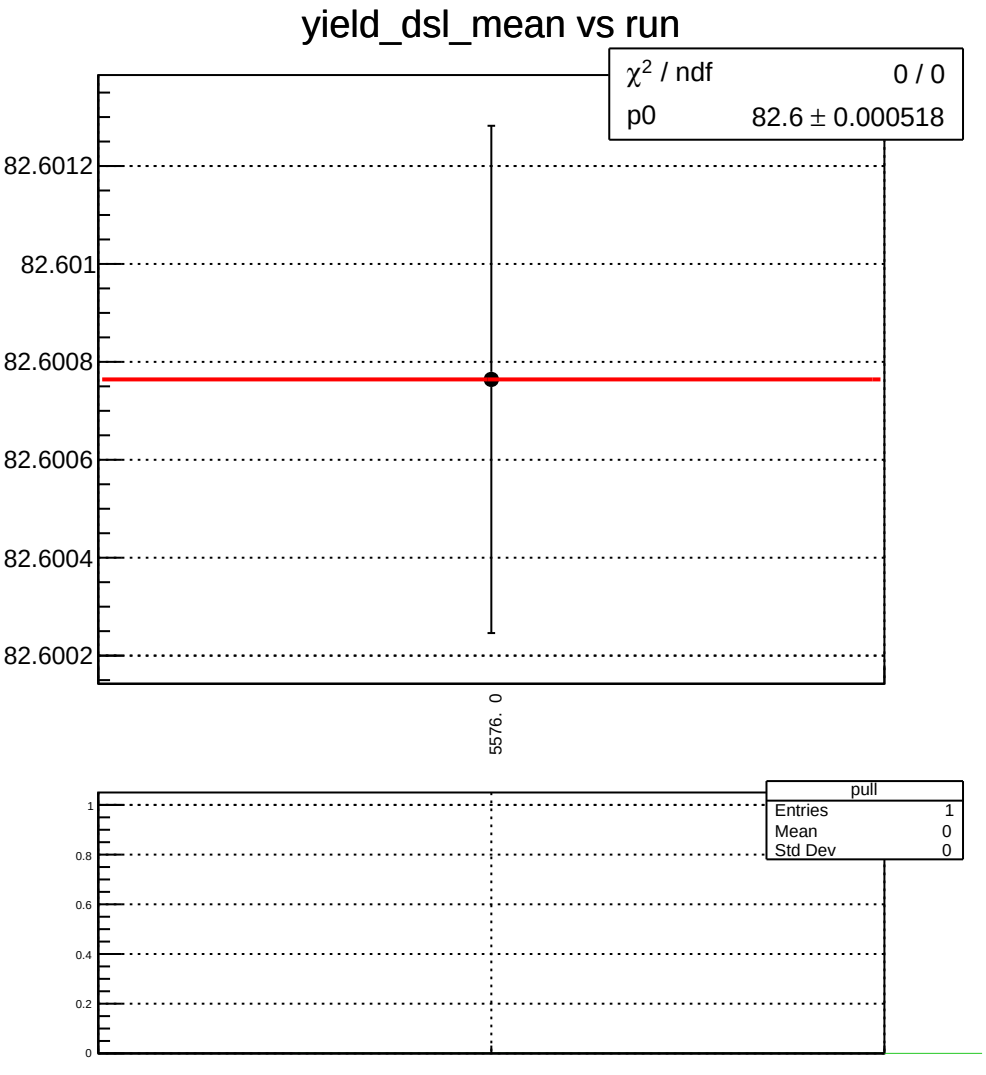
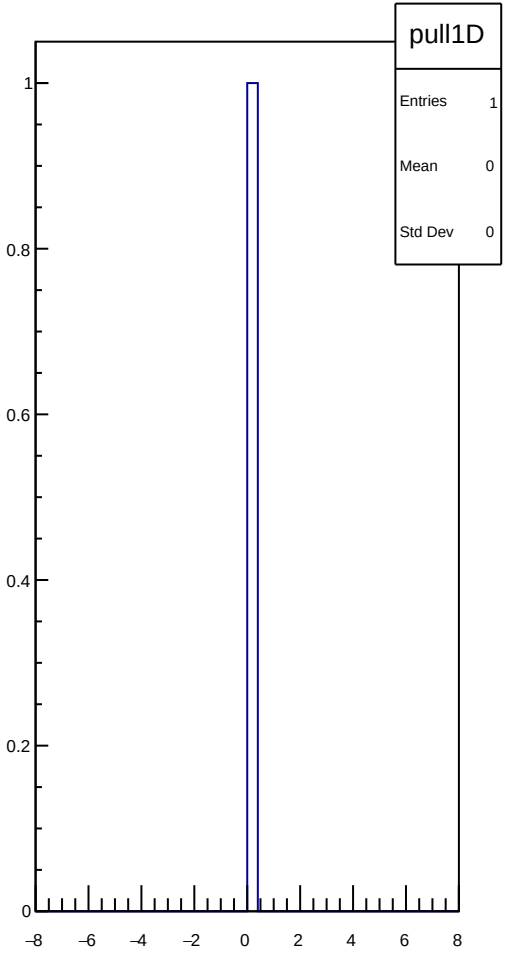
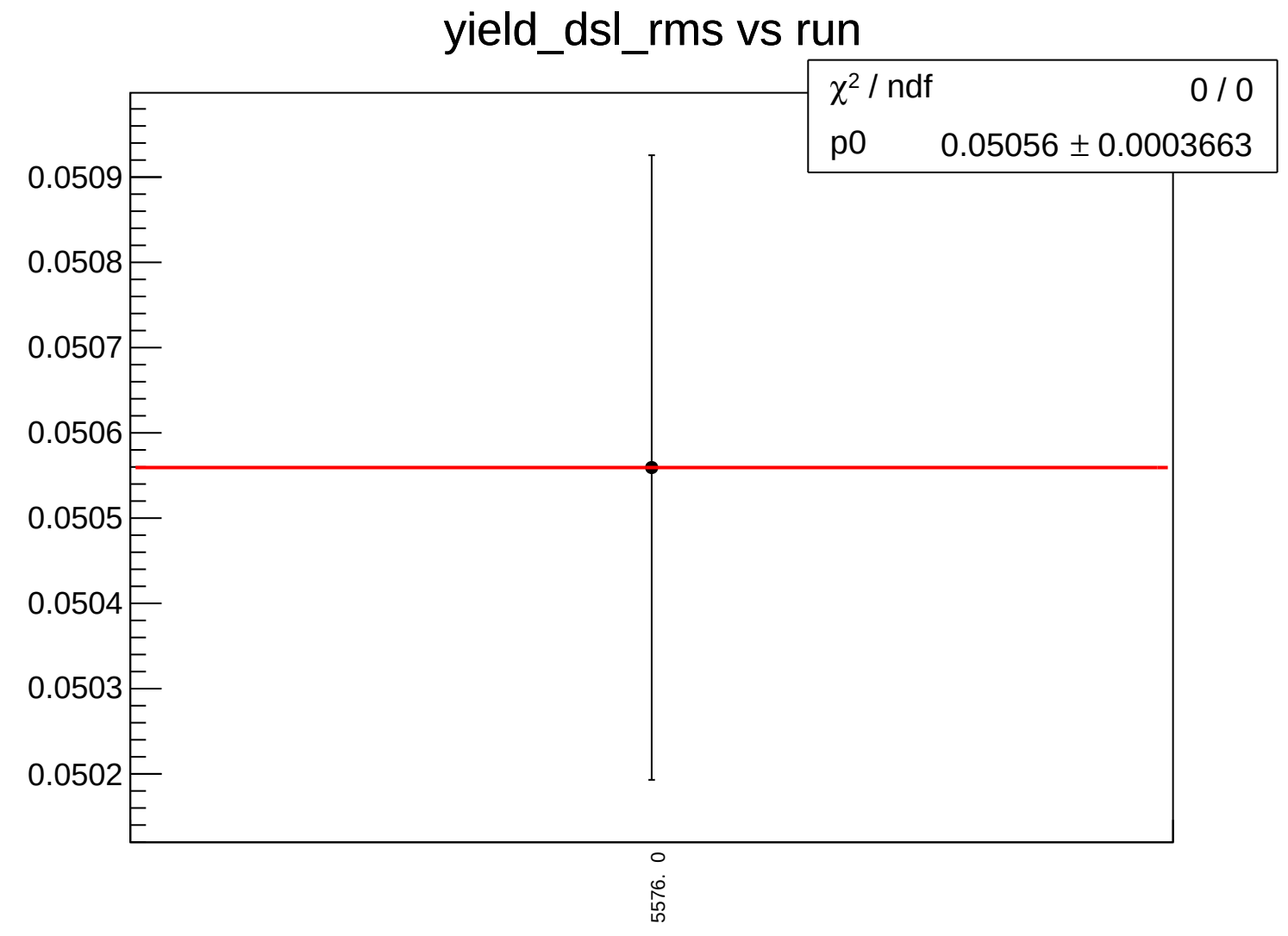
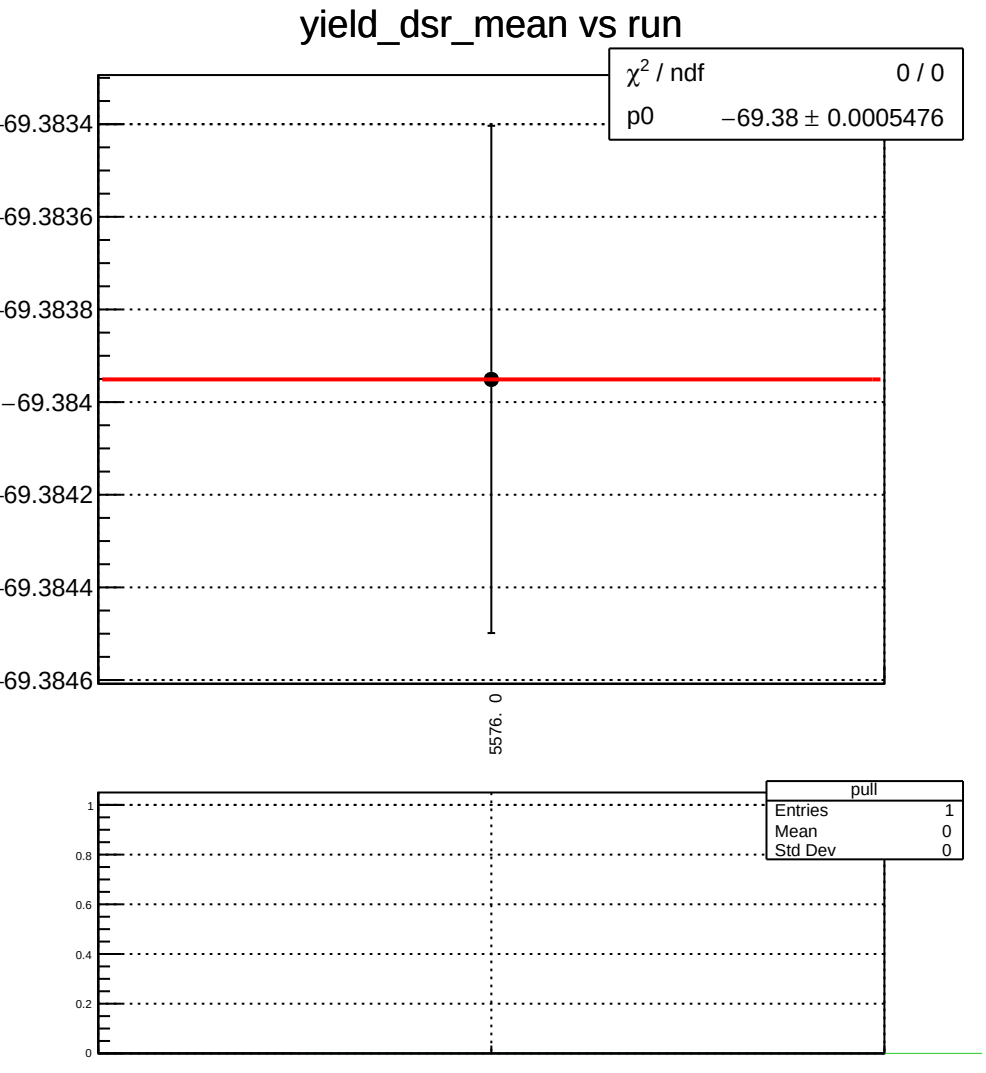
2
4
6
8

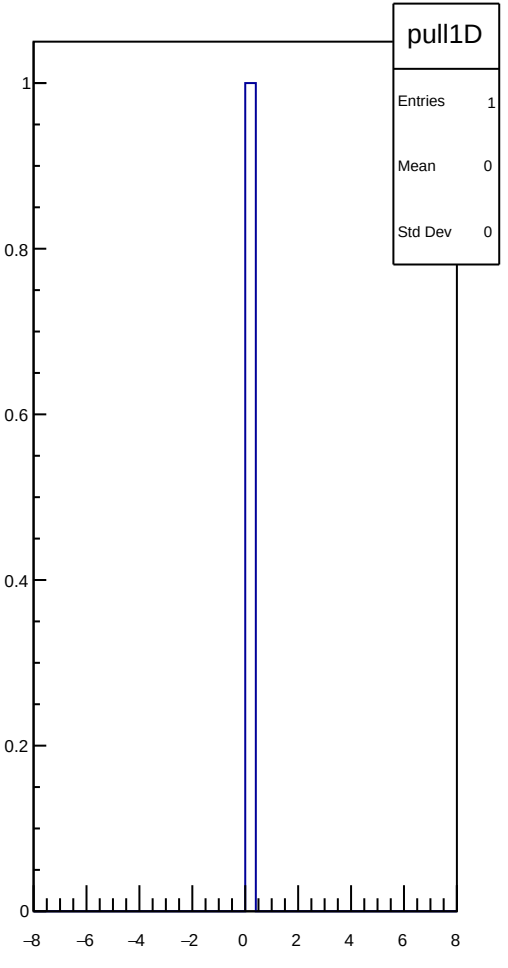

yield_usr_rms vs run
χ² / ndf 7.138e−28 / 0
p0 0.1434 ± 0.001039
0.1445
0.144
0.1435
0.143
0.1425
5576. 0

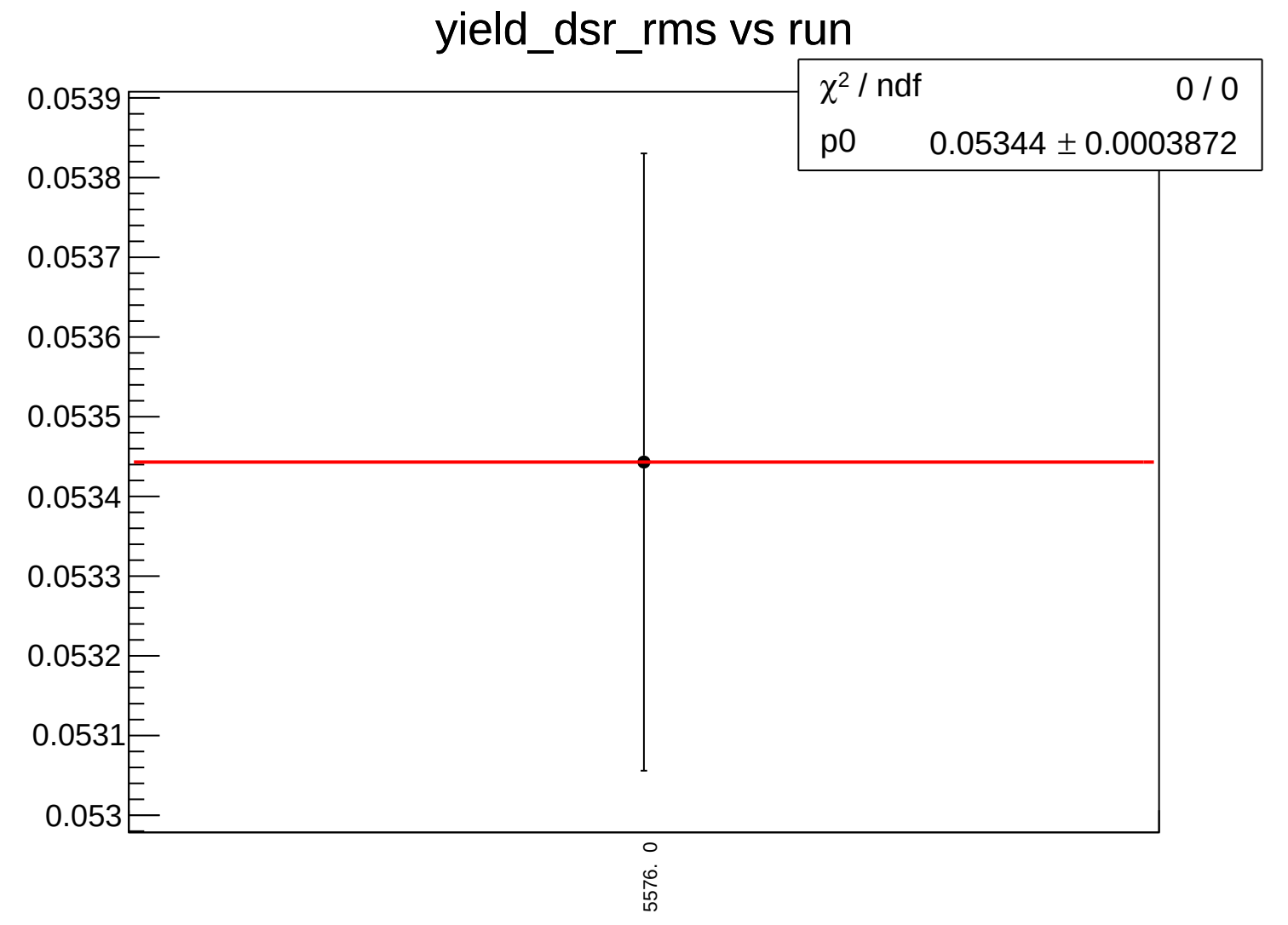

yield_dsl_mean vs run
χ² / ndf 0 / 0
p0 82.6 ± 0.000518
82.6012
82.601
82.6008
82.6006
82.6004
82.6002
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

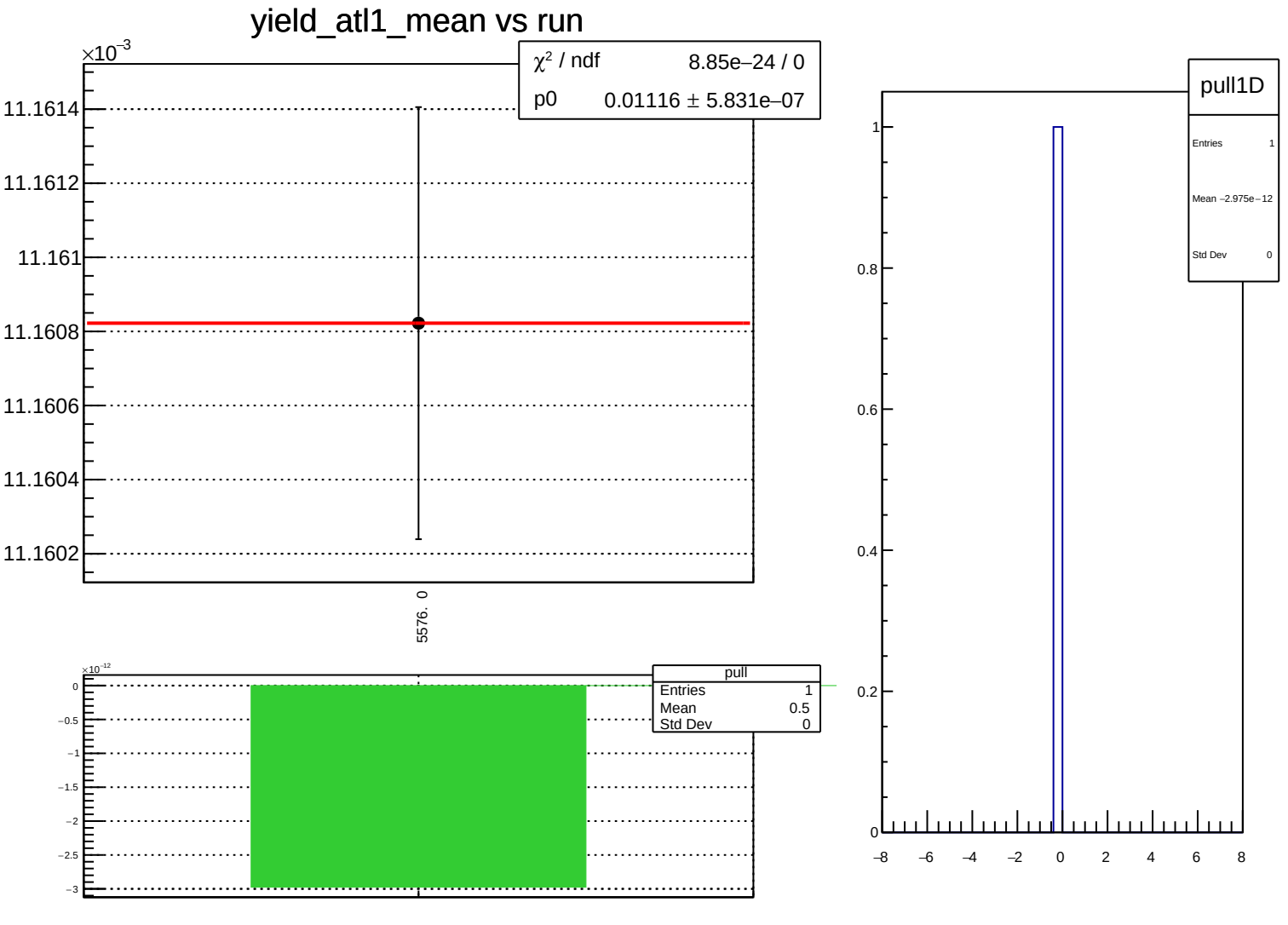

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

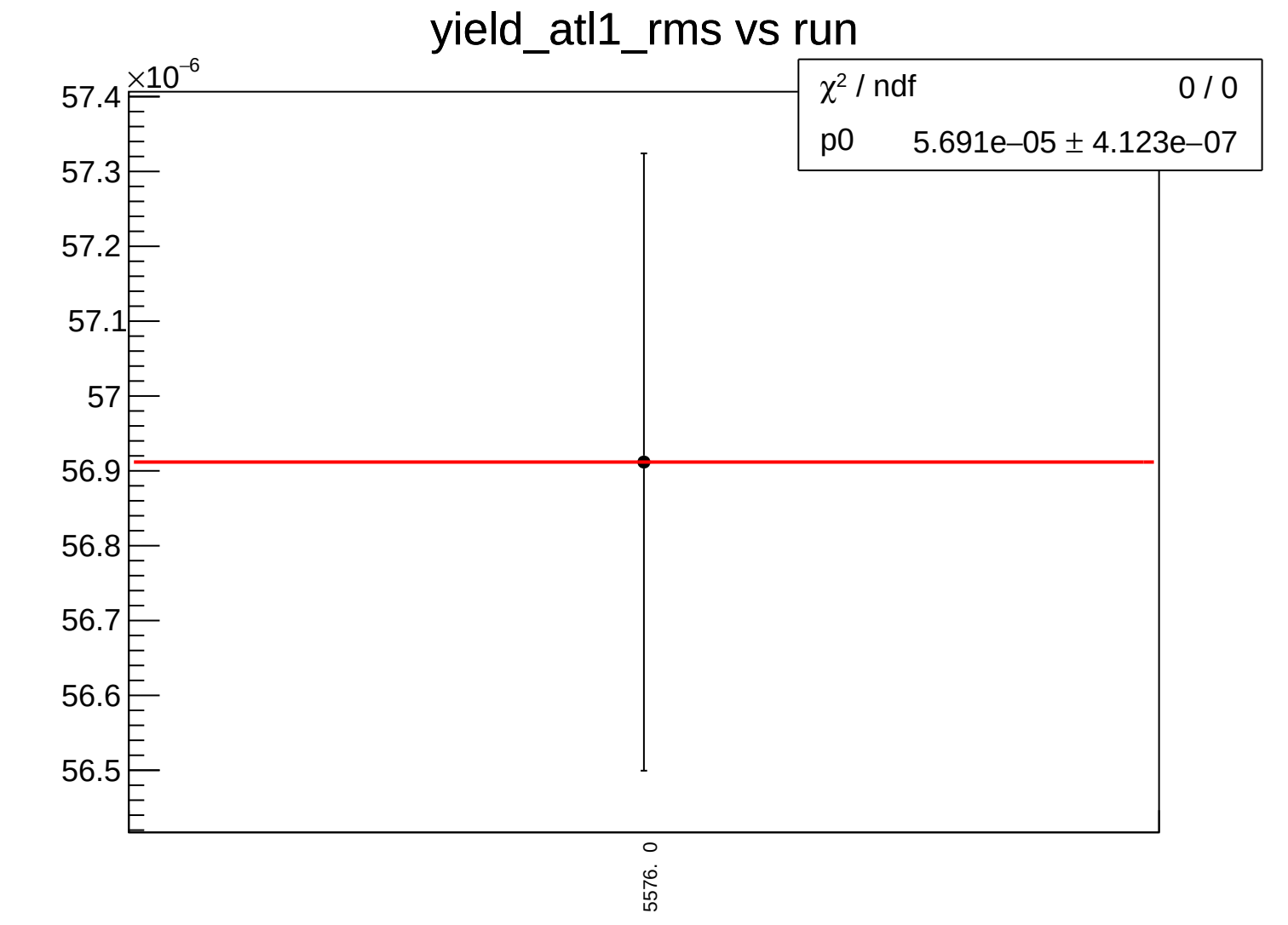

yield_dsl_rms vs run
χ² / ndf 0 / 0
p0 0.05056 ± 0.0003663
0.0509
0.0508
0.0507
0.0506
0.0505
0.0504
0.0503
0.0502
5576. 0

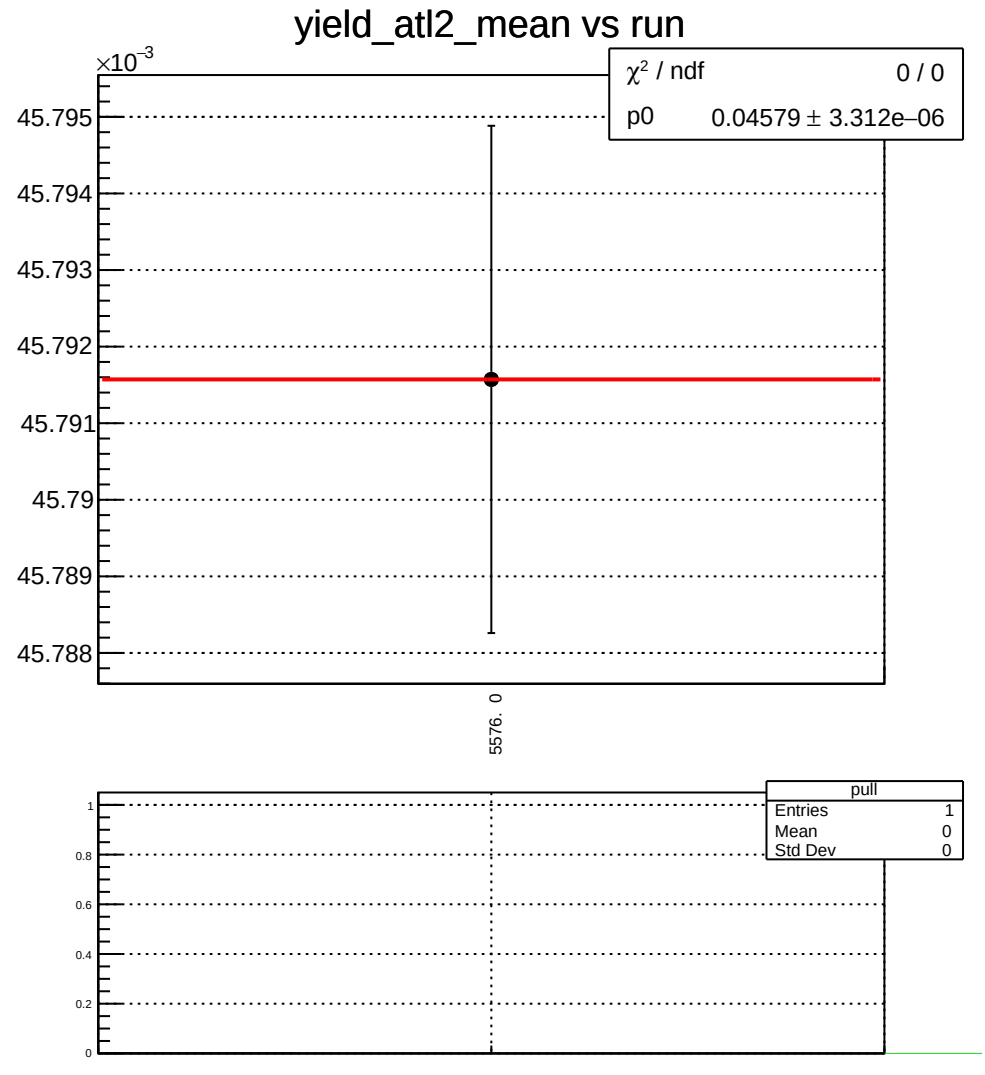

yield_dsr_mean vs run
χ² / ndf 0 / 0
p0 −69.38 ± 0.0005476
−69.3834
−69.3836
−69.3838
−69.384
−69.3842
−69.3844
−69.3846
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

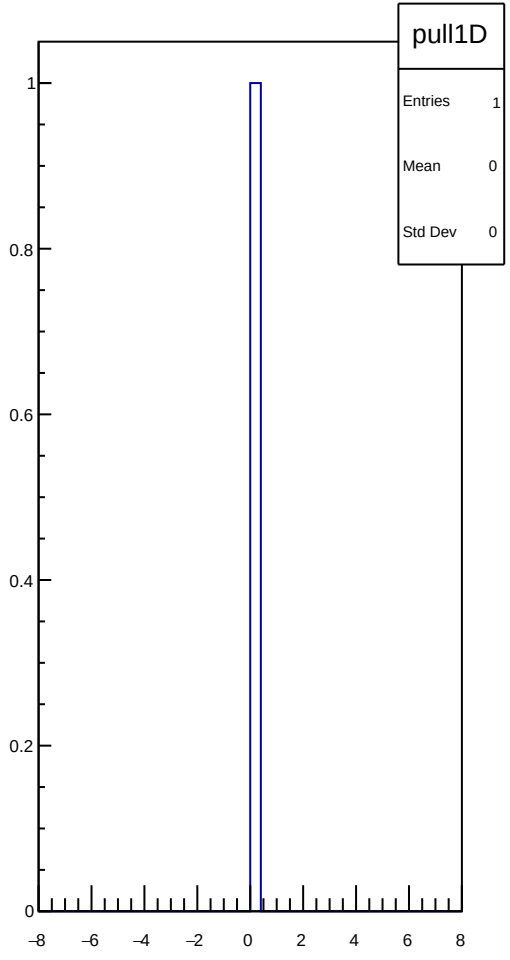

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

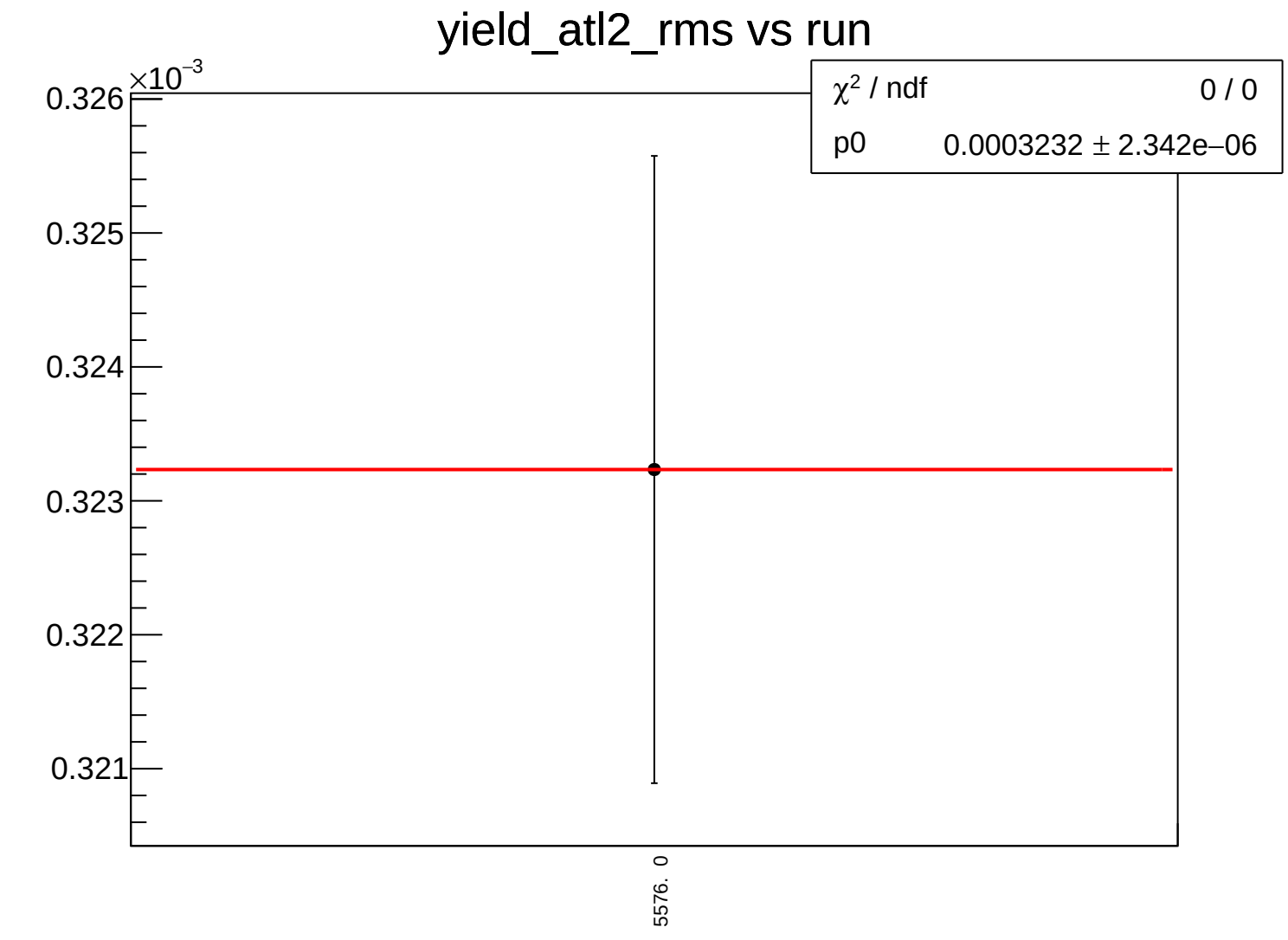

yield_dsr_rms vs run
χ² / ndf 0 / 0
p0 0.05344 ± 0.0003872
0.0539
0.0538
0.0537
0.0536
0.0535
0.0534
0.0533
0.0532
0.0531
0.053
5576. 0

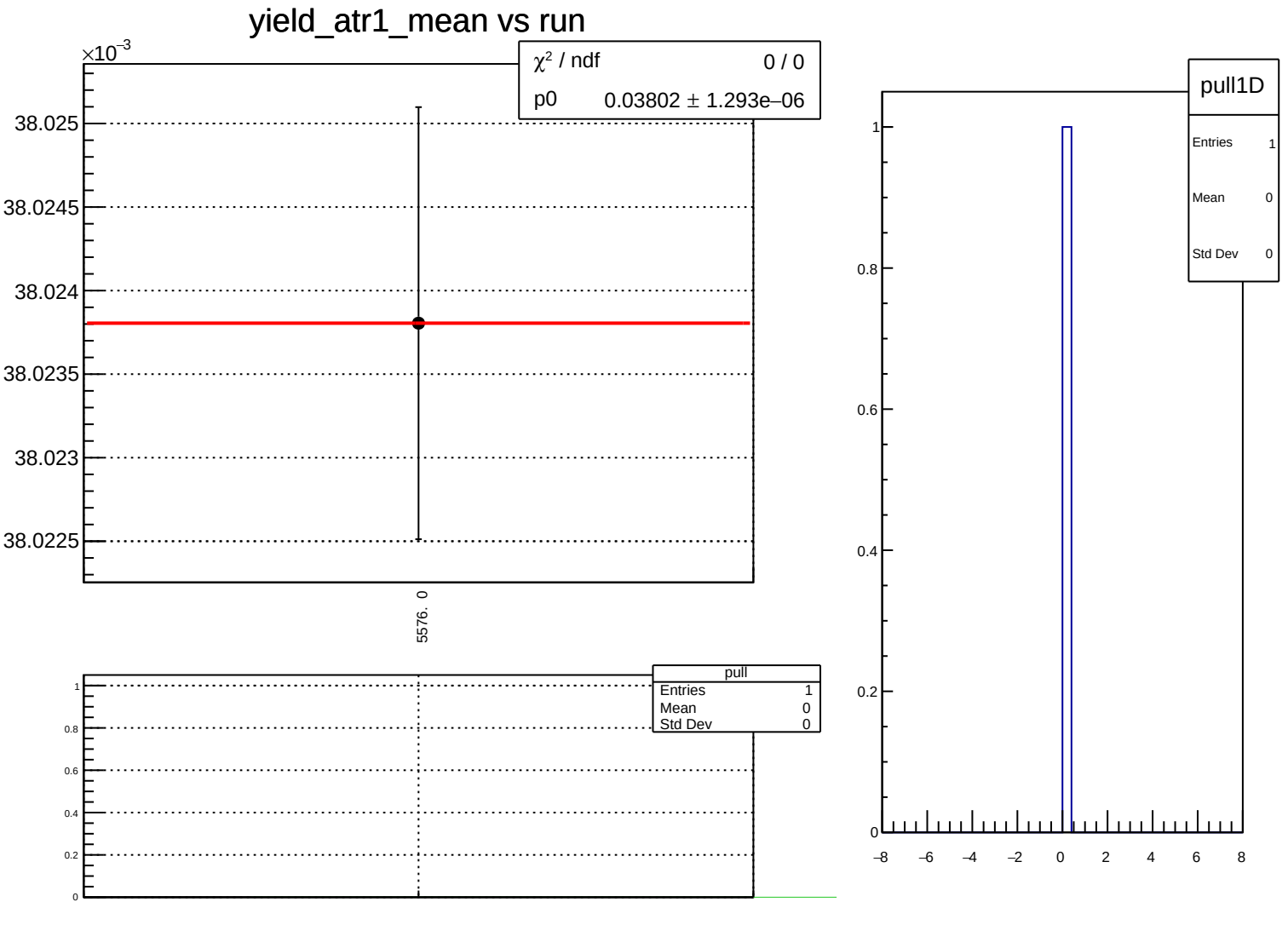

yield_atl1_mean vs run
×10⁻³
11.1614
11.1612
11.161
11.1608
11.1606
11.1604
11.1602
χ² / ndf 8.85e−24 / 0
p0 0.01116 ± 5.831e−07
5576. 0
×10⁻¹²
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.975e−12
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

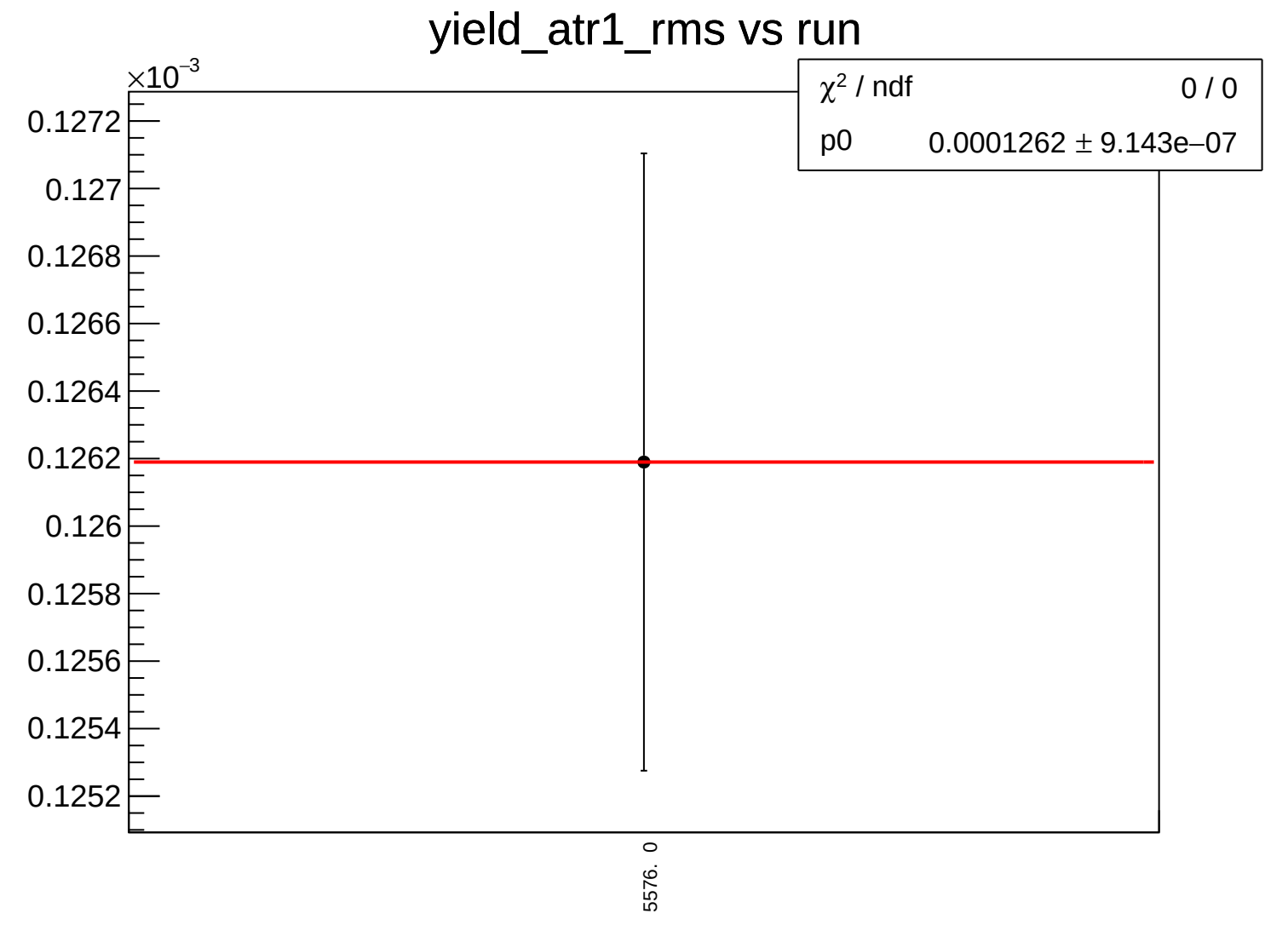

yield_atl1_rms vs run
×10⁻⁶
57.4
57.3
57.2
57.1
57
56.9
56.8
56.7
56.6
56.5
χ² / ndf 0 / 0
p0 5.691e−05 ± 4.123e−07
5576. 0

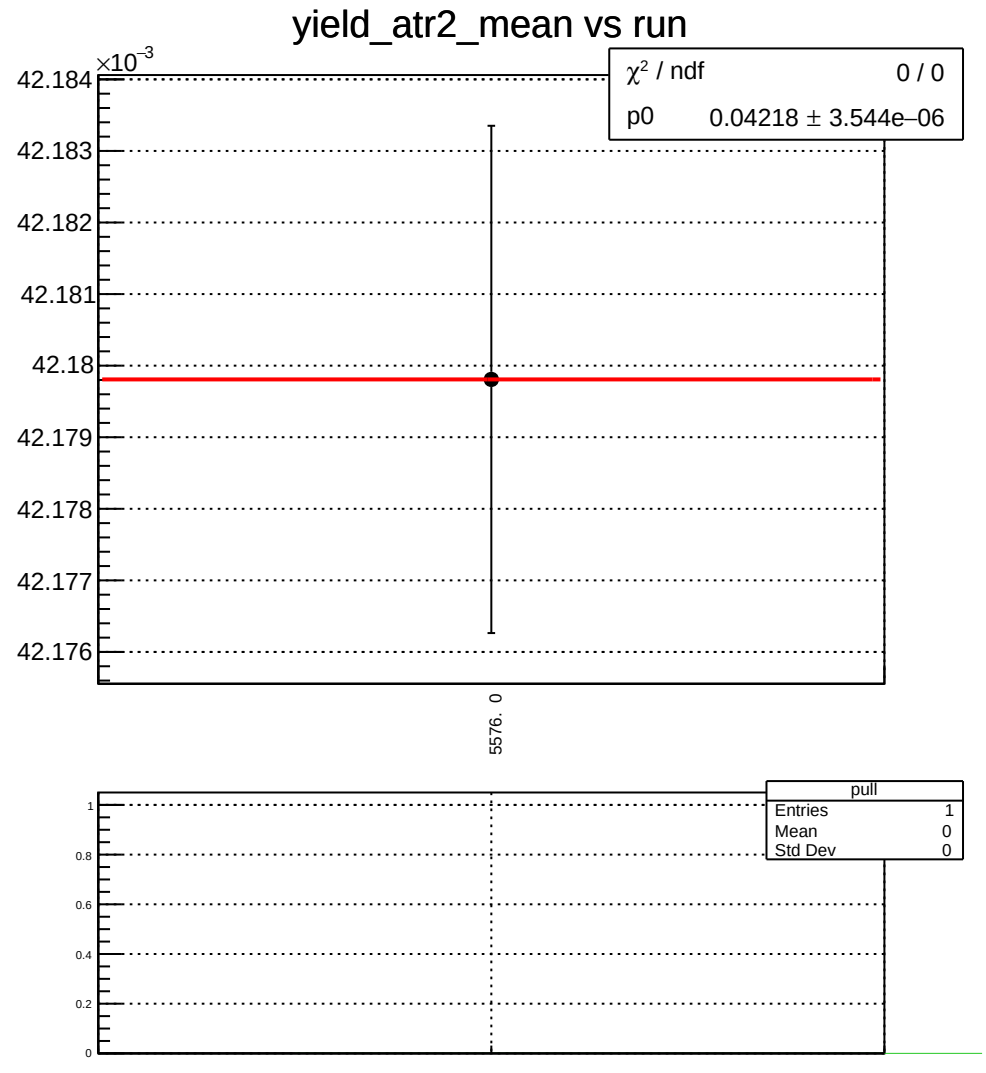

yield_atl2_mean vs run
×10⁻³
χ² / ndf 0 / 0
p0 0.04579 ± 3.312e−06
45.795
45.794
45.793
45.792
45.791
45.79
45.789
45.788
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

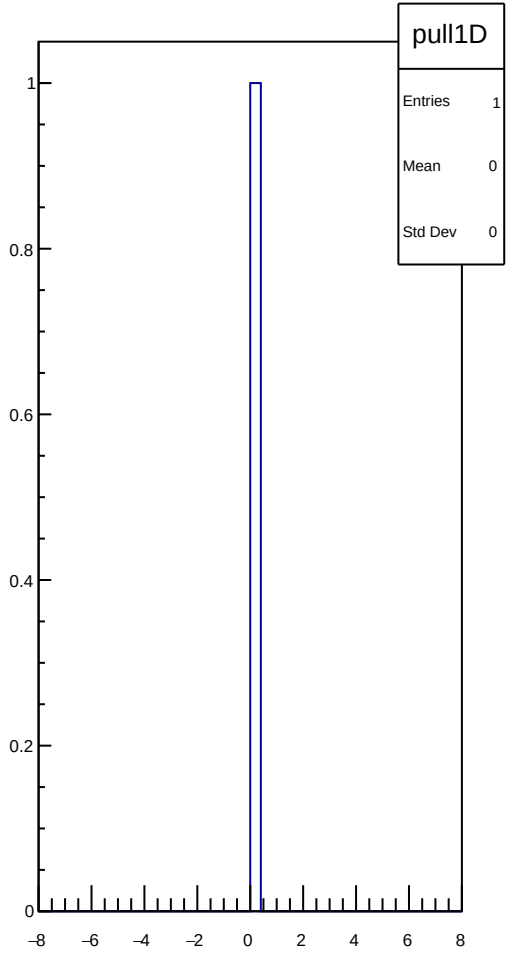

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

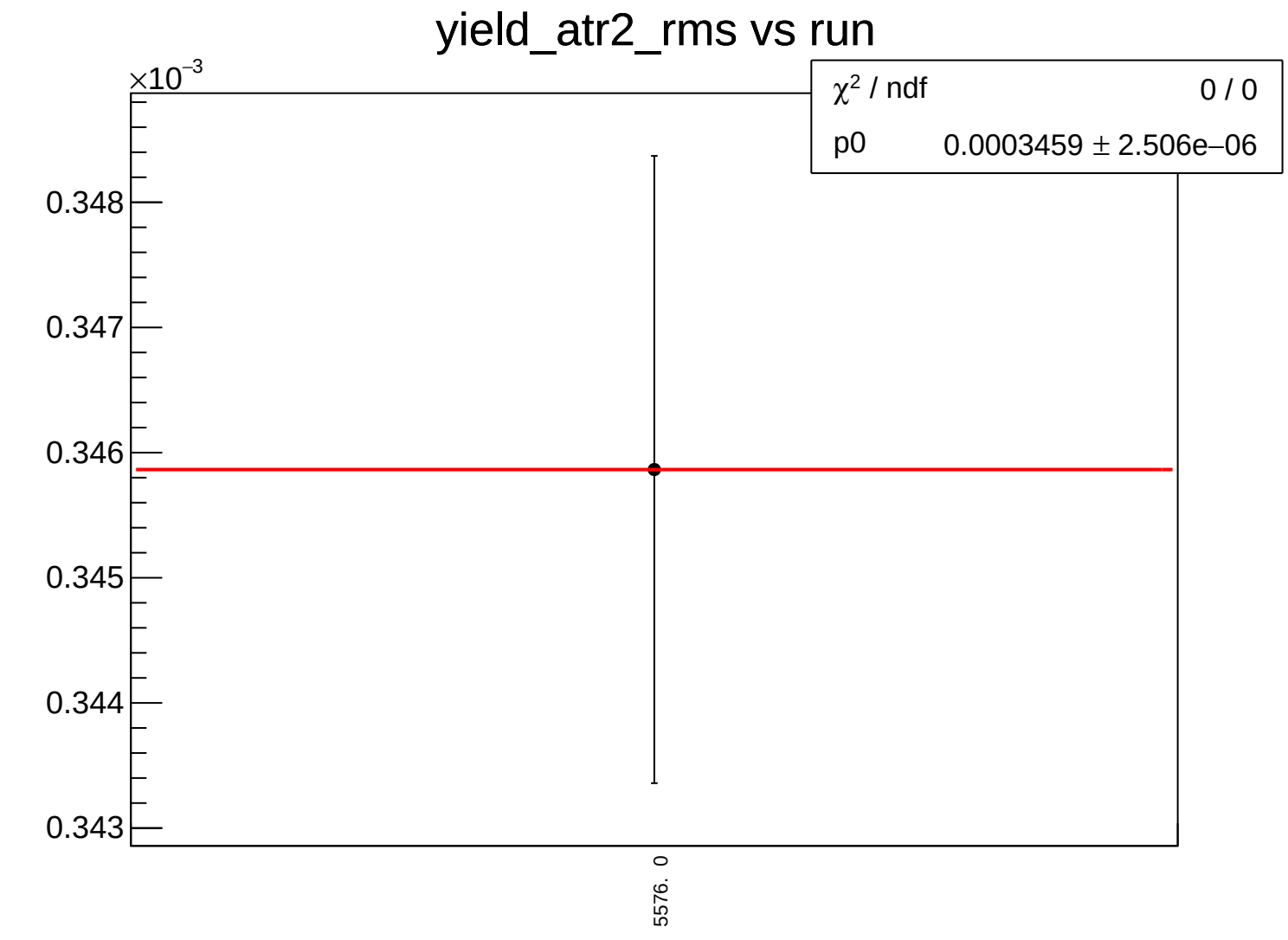

yield_atl2_rms vs run
×10⁻³
0.326
0.325
0.324
0.323
0.322
0.321
χ² / ndf 0 / 0
p0 0.0003232 ± 2.342e−06
5576. 0

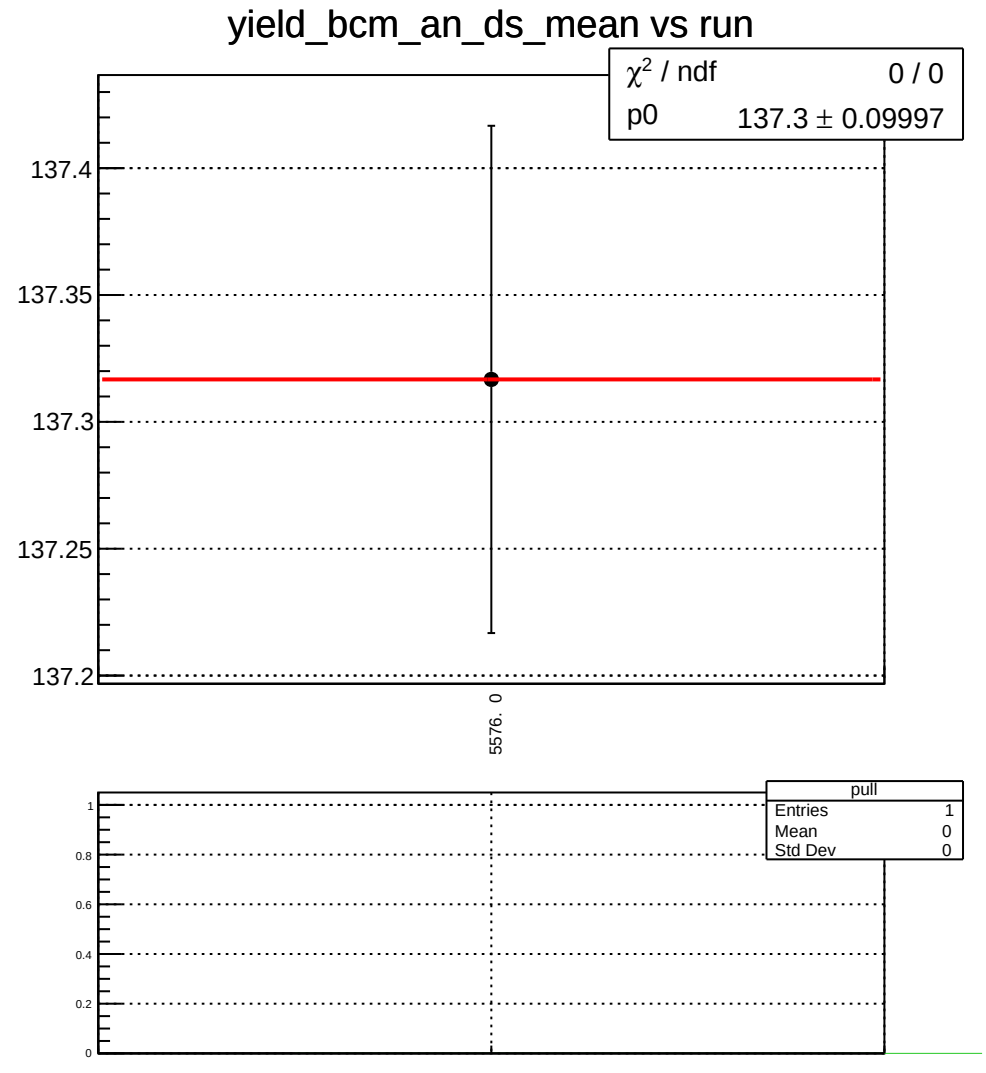

yield_atr1_mean vs run
×10⁻³
χ² / ndf 0 / 0
p0 0.03802 ± 1.293e−06
38.025
38.0245
38.024
38.0235
38.023
38.0225
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

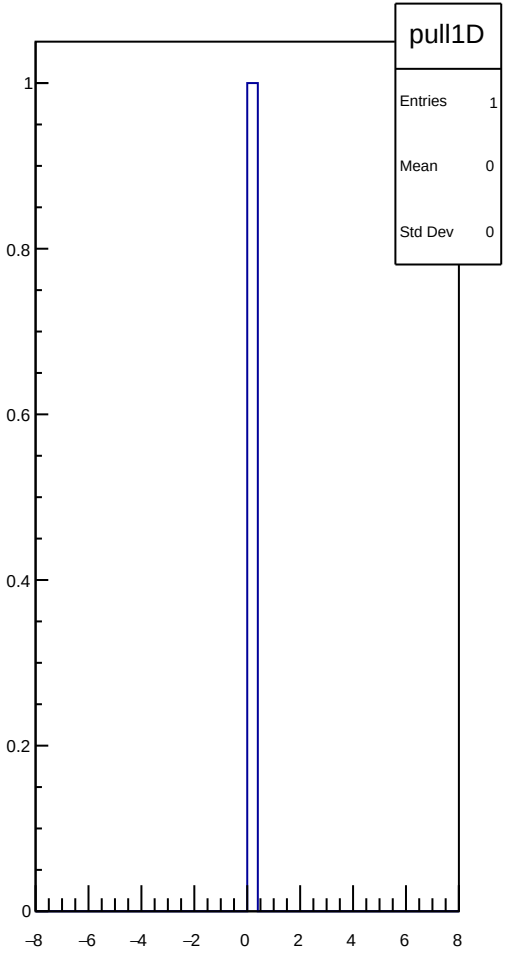

yield_atr1_rms vs run
×10⁻³
0.1272
0.127
0.1268
0.1266
0.1264
0.1262
0.126
0.1258
0.1256
0.1254
0.1252
χ² / ndf 0 / 0
p0 0.0001262 ± 9.143e−07
5576. 0

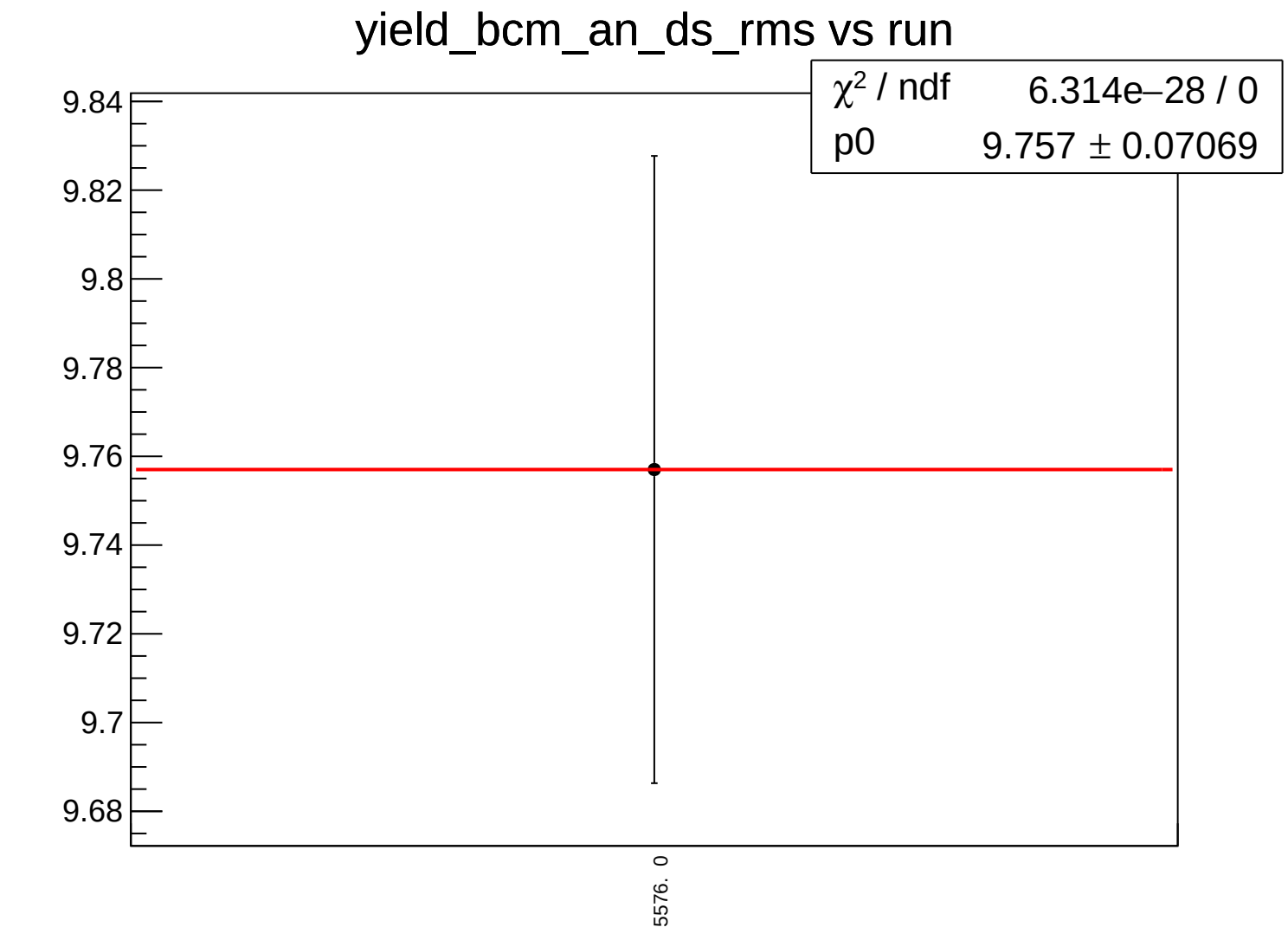

yield_atr2_mean vs run
×10⁻³
42.184
42.183
42.182
42.181
42.18
42.179
42.178
42.177
42.176
χ² / ndf 0 / 0
p0 0.04218 ± 3.544e−06
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

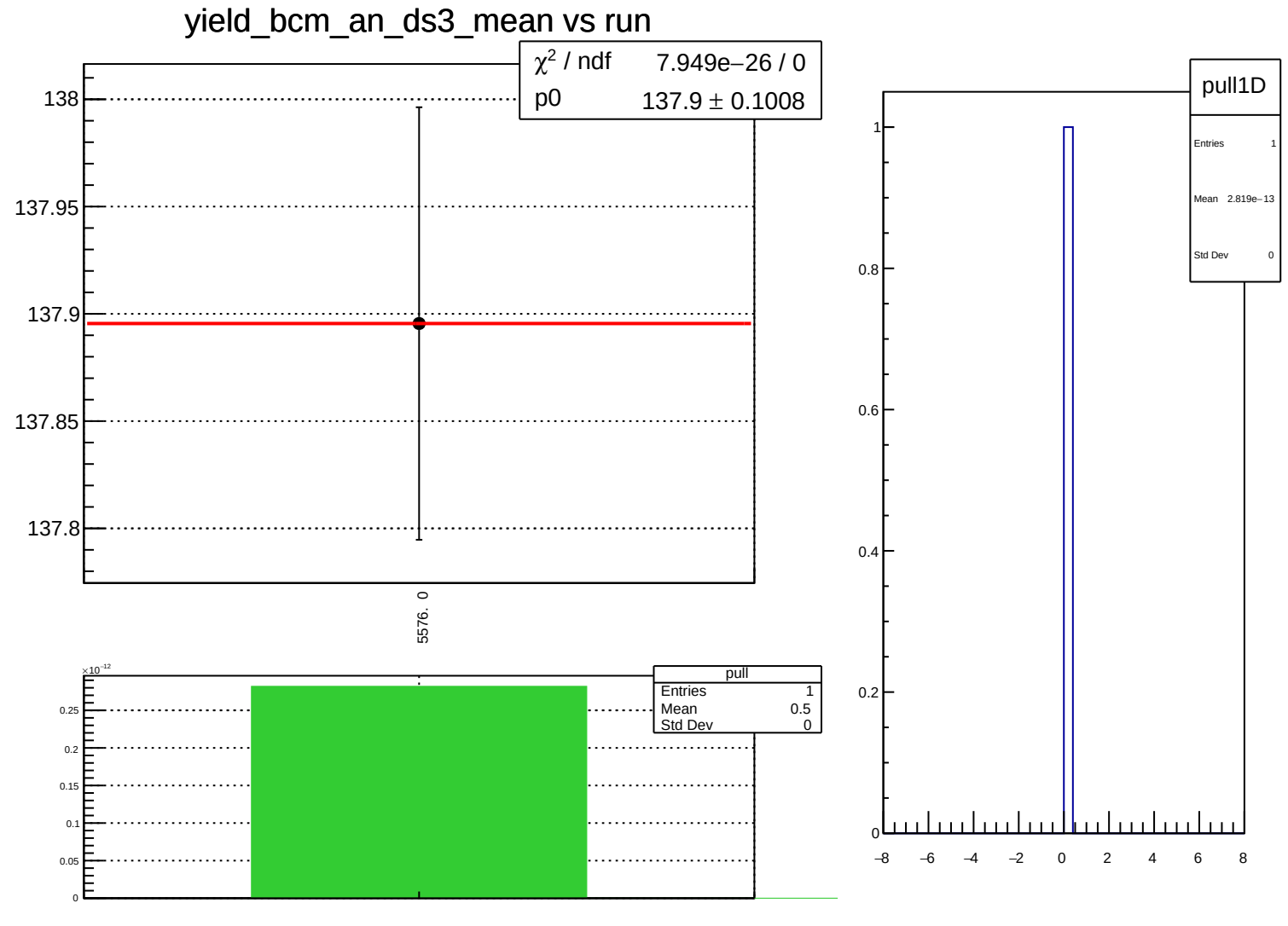

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

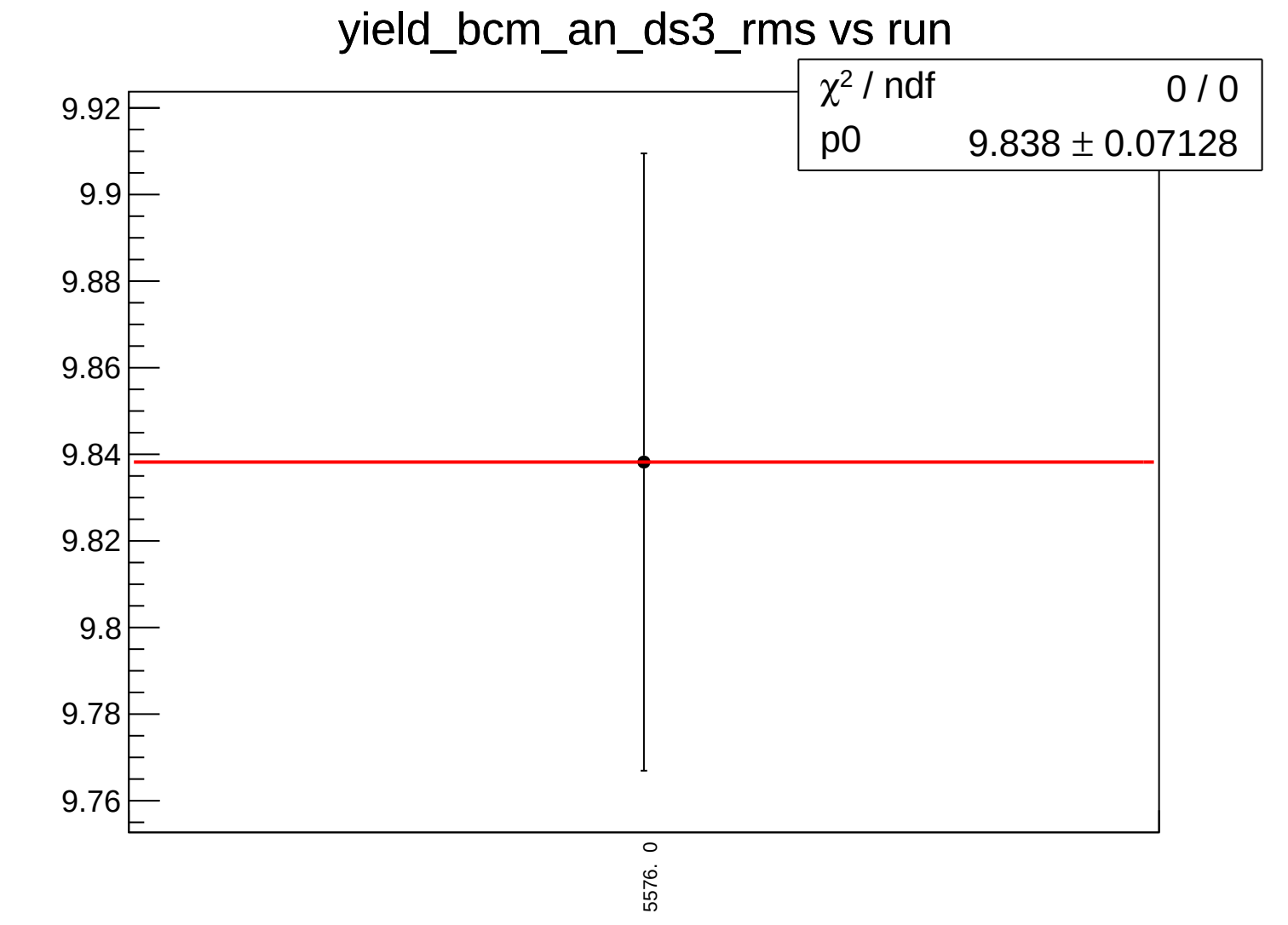

yield_atr2_rms vs run
×10⁻³
χ² / ndf 0 / 0
p0 0.0003459 ± 2.506e−06
0.348
0.347
0.346
0.345
0.344
0.343
5576. 0

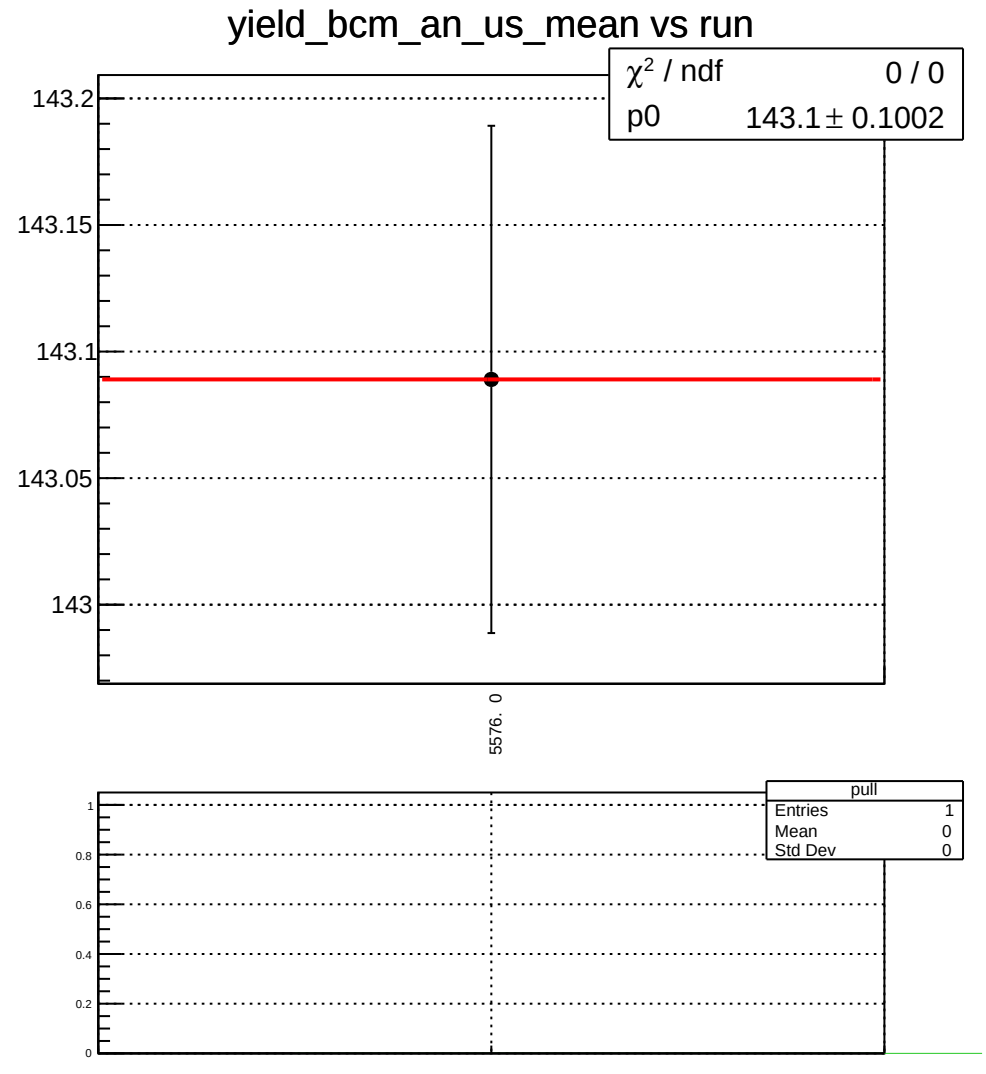

yield_bcm_an_ds_mean vs run
χ² / ndf 0 / 0
p0 137.3 ± 0.09997
137.4
137.35
137.3
137.25
137.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

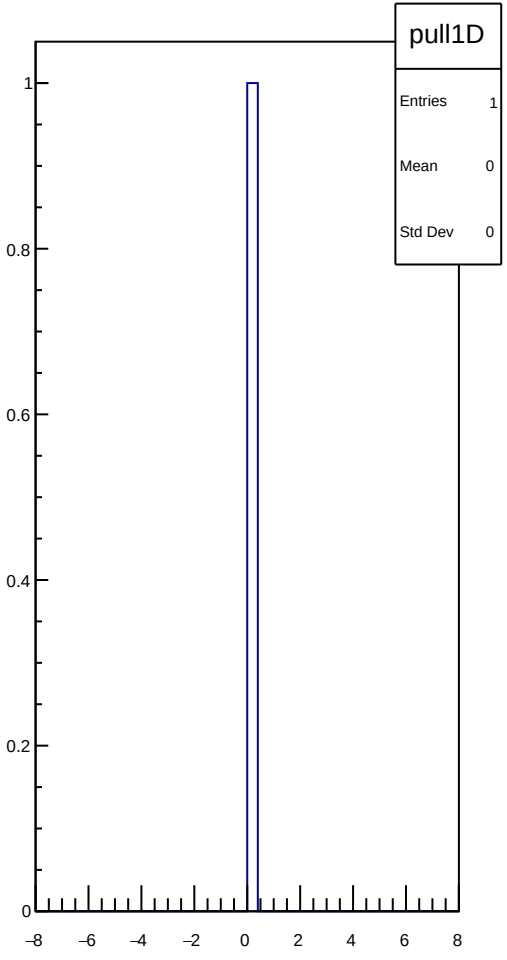

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

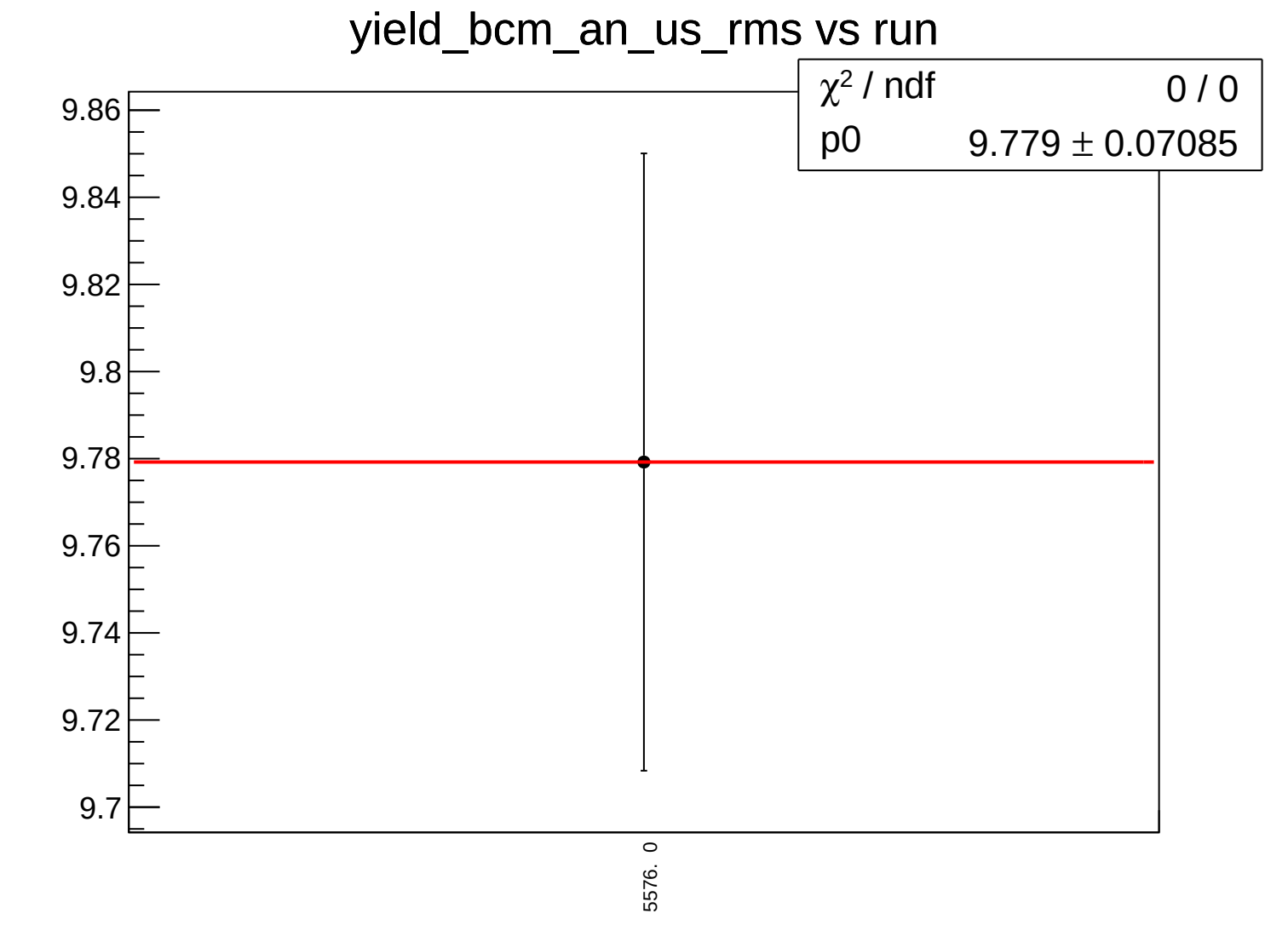

yield_bcm_an_ds_rms vs run
χ² / ndf 6.314e−28 / 0
p0 9.757 ± 0.07069
9.84
9.82
9.8
9.78
9.76
9.74
9.72
9.7
9.68
5576. 0

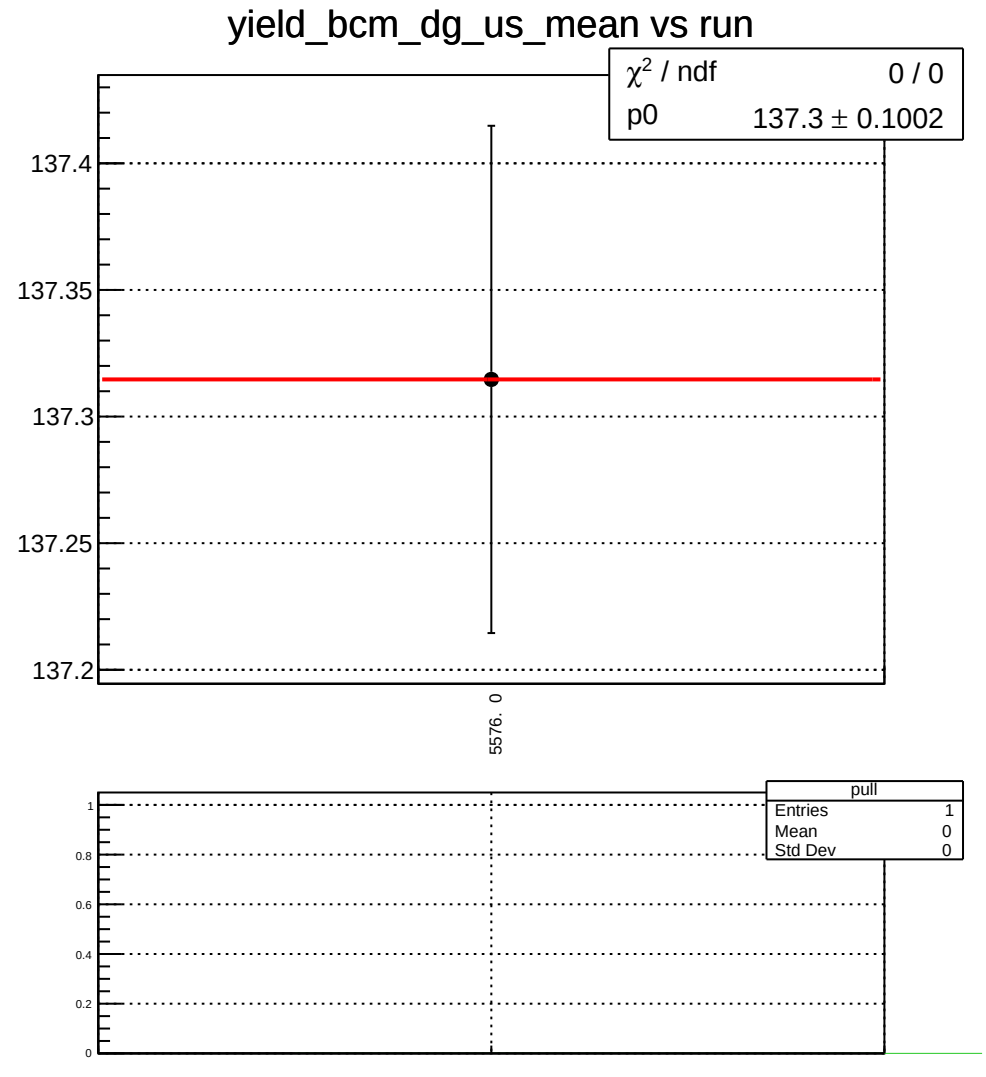

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.949e−26 / 0
p0 137.9 ± 0.1008
138
137.95
137.9
137.85
137.8
5576. 0
×10⁻¹²
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.819e−13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

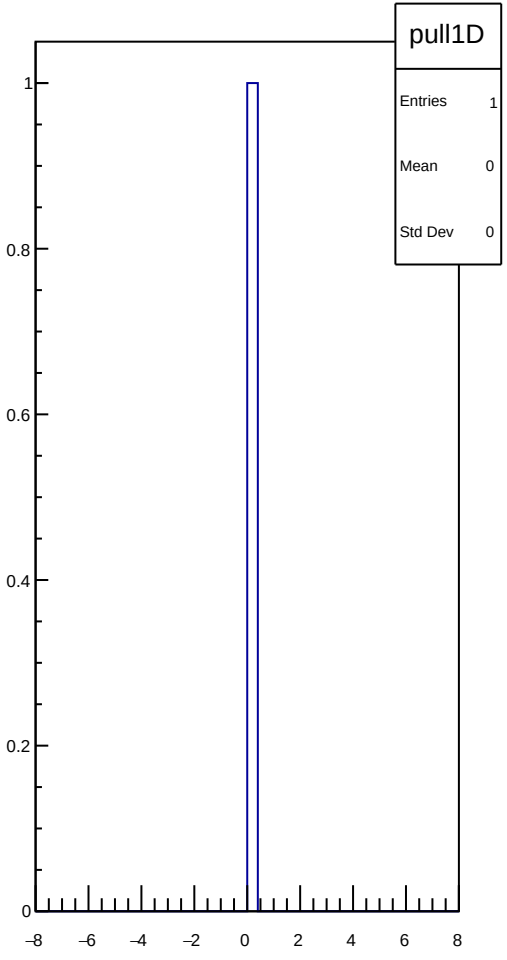

yield_bcm_an_ds3_rms vs run
χ² / ndf 0 / 0
p0 9.838 ± 0.07128
9.92
9.9
9.88
9.86
9.84
9.82
9.8
9.78
9.76
5576. 0

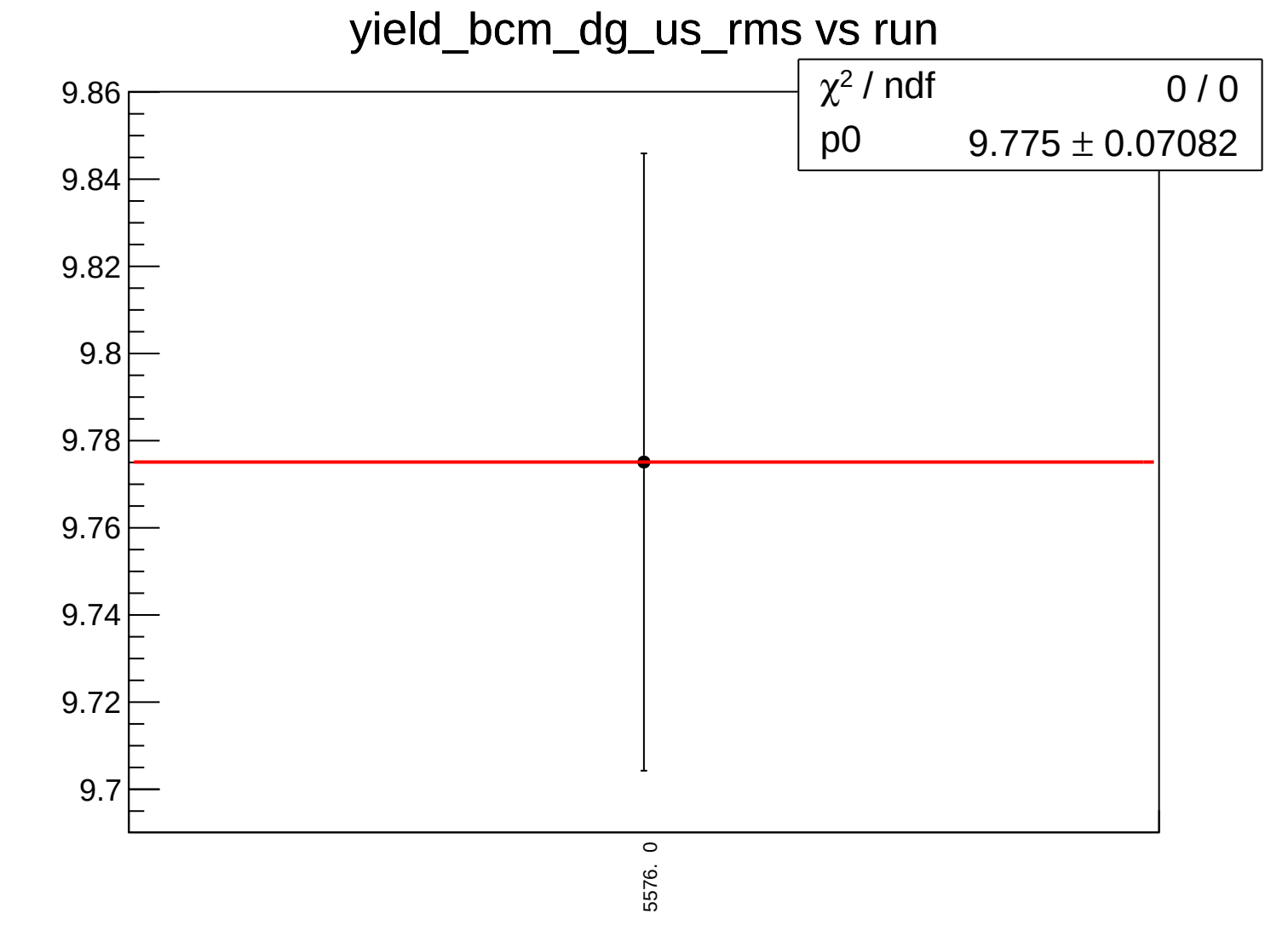

yield_bcm_an_us_mean vs run
χ² / ndf 0 / 0
p0 143.1 ± 0.1002
143.2
143.15
143.1
143.05
143
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

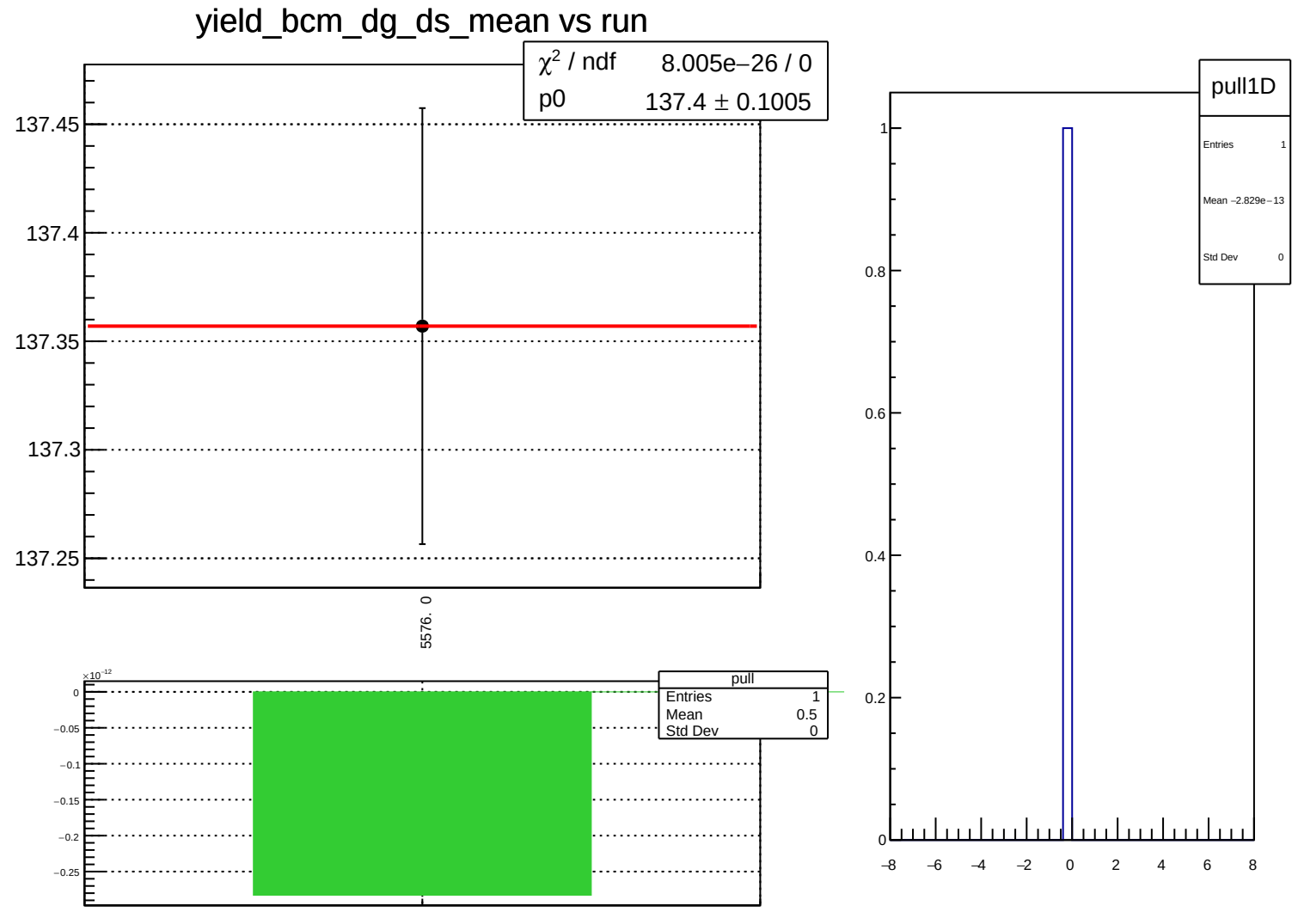

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

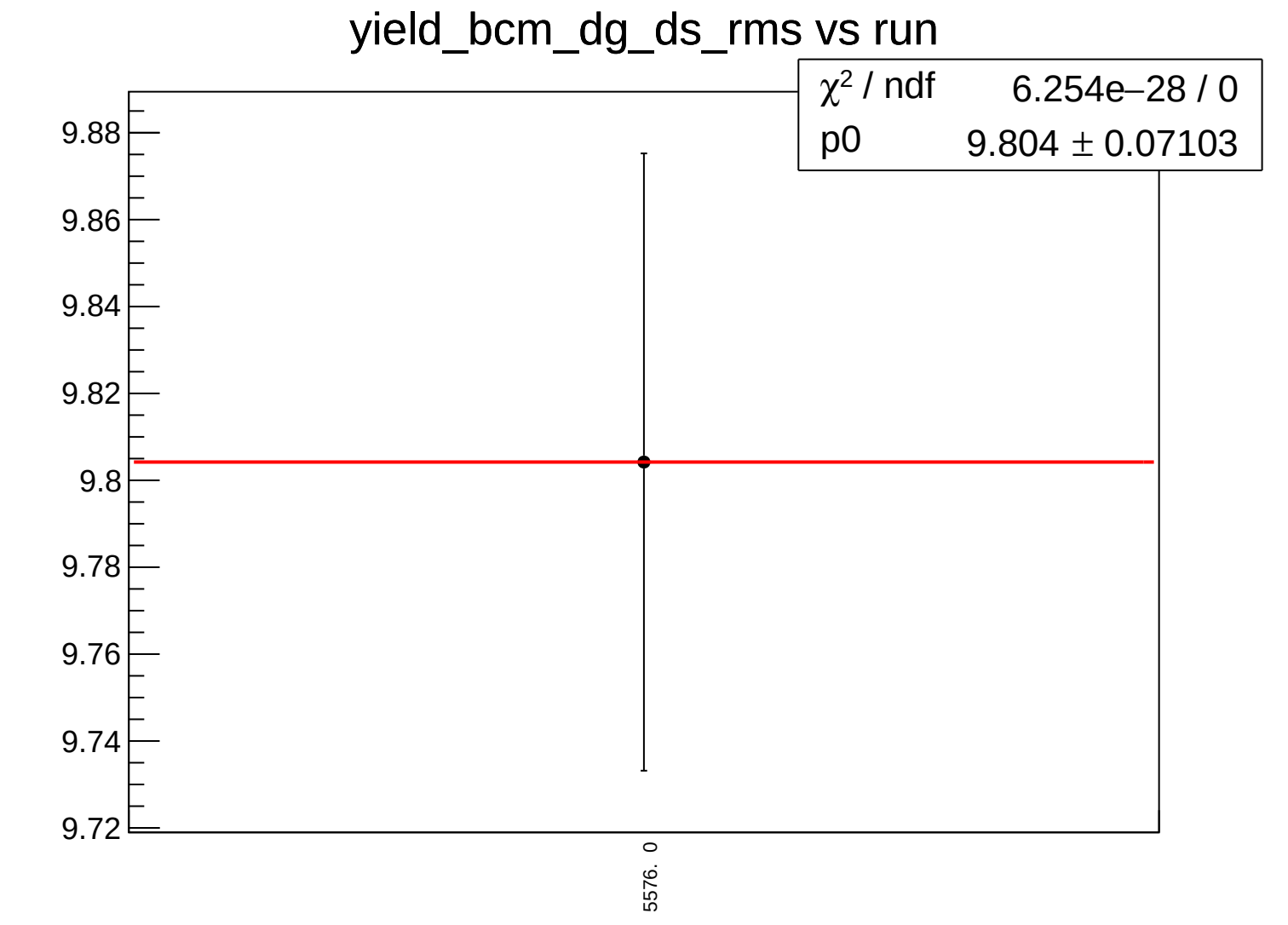

yield_bcm_an_us_rms vs run
χ² / ndf 0 / 0
p0 9.779 ± 0.07085
9.86
9.84
9.82
9.8
9.78
9.76
9.74
9.72
9.7
5576. 0

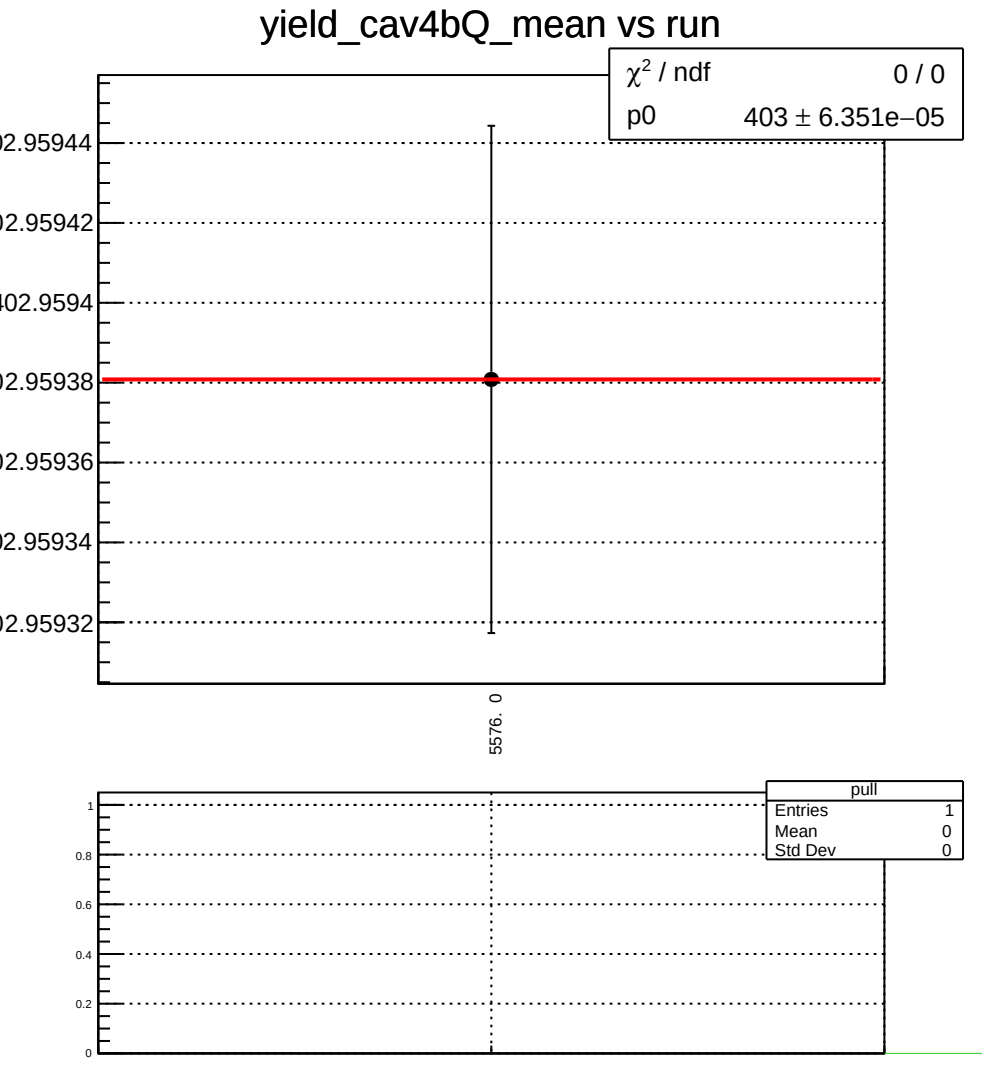

yield_bcm_dg_us_mean vs run
χ² / ndf 0 / 0
p0 137.3 ± 0.1002
137.4
137.35
137.3
137.25
137.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

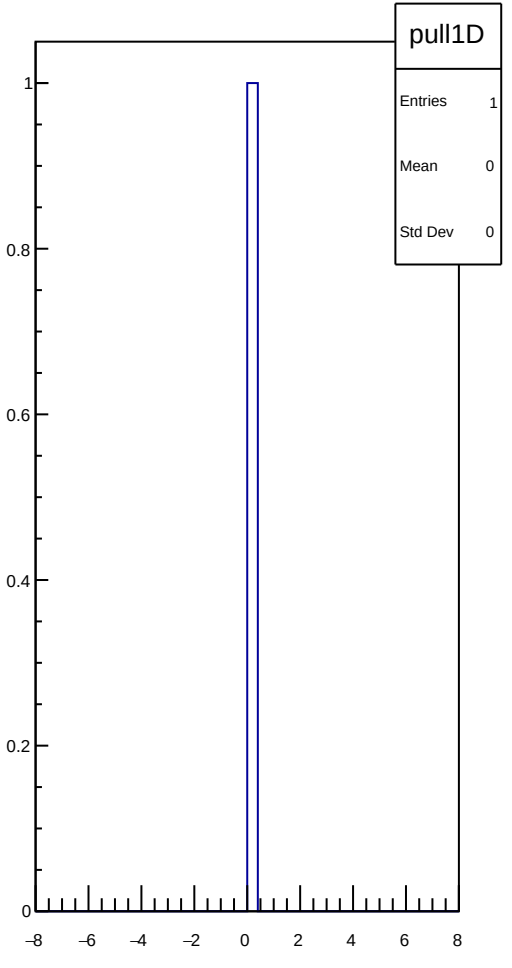

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

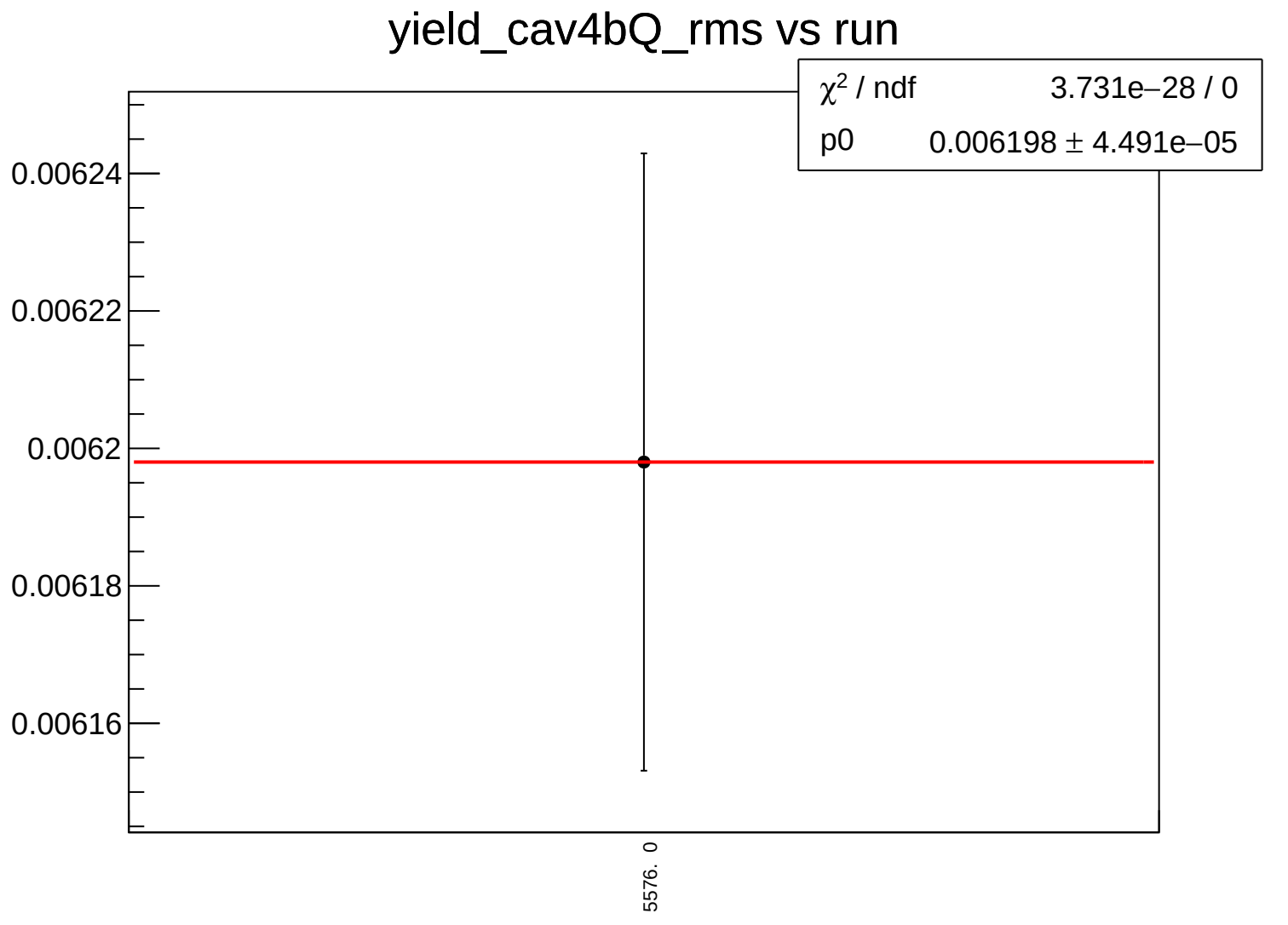

yield_bcm_dg_us_rms vs run
χ² / ndf 0 / 0
p0 9.775 ± 0.07082
9.86
9.84
9.82
9.8
9.78
9.76
9.74
9.72
9.7
5576. 0

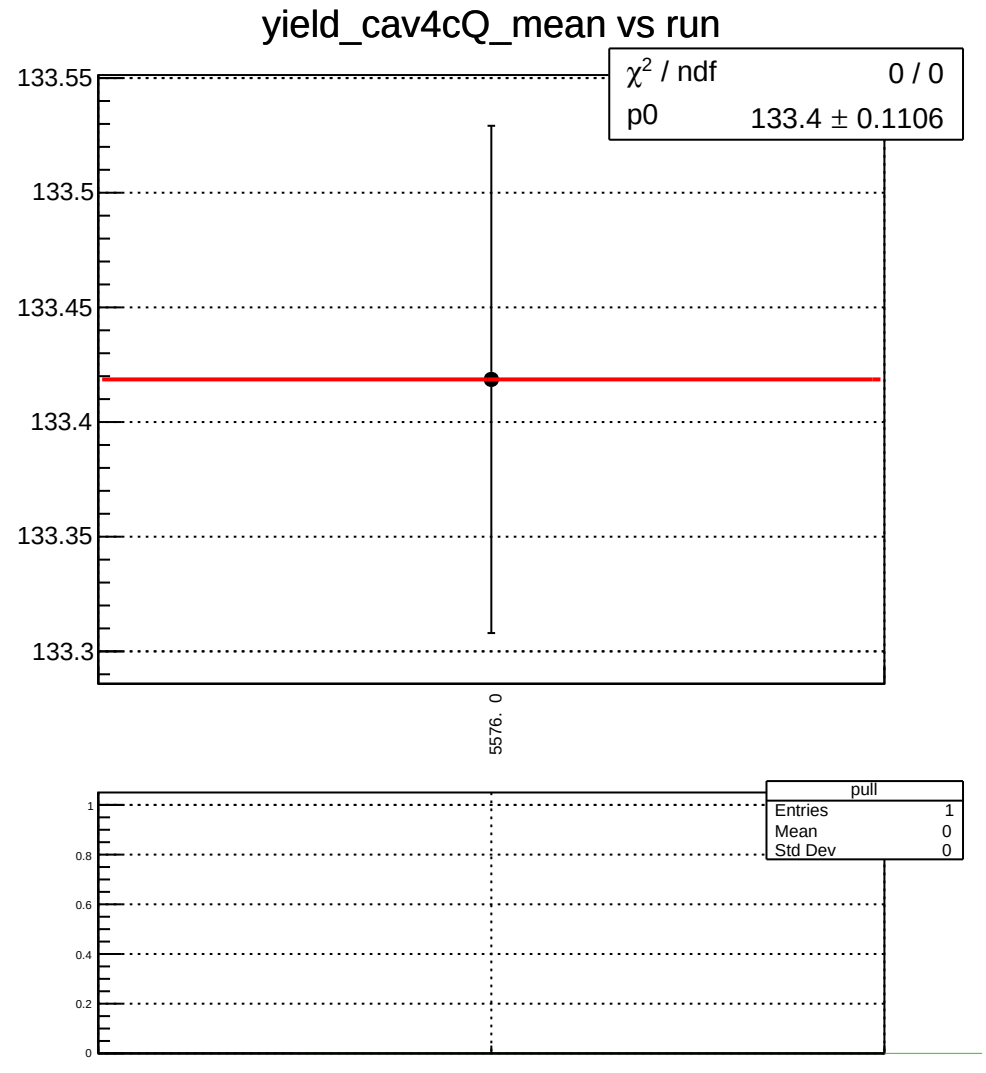

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.005e−26 / 0
p0 137.4 ± 0.1005
137.45
137.4
137.35
137.3
137.25
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 1
Mean −2.829e−13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

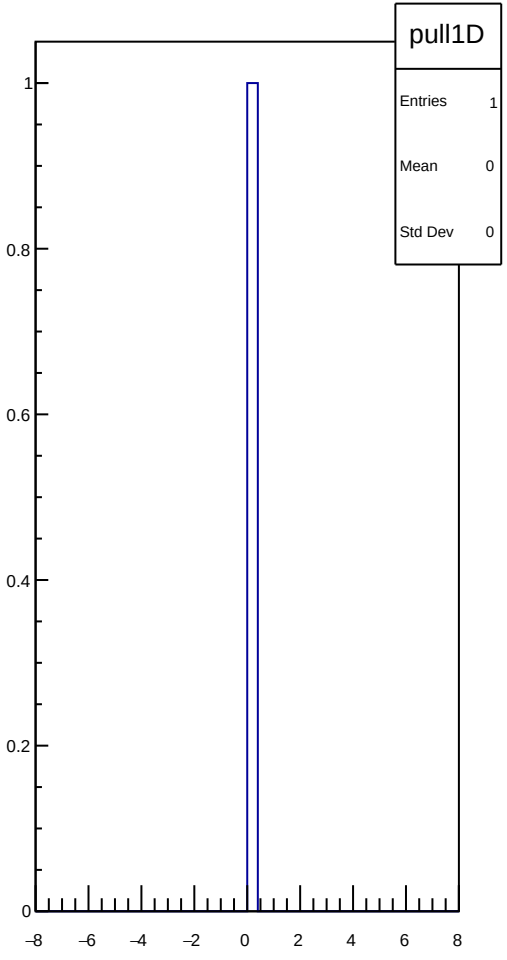

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.254e−28 / 0
p0 9.804 ± 0.07103
9.88
9.86
9.84
9.82
9.8
9.78
9.76
9.74
9.72
5576. 0

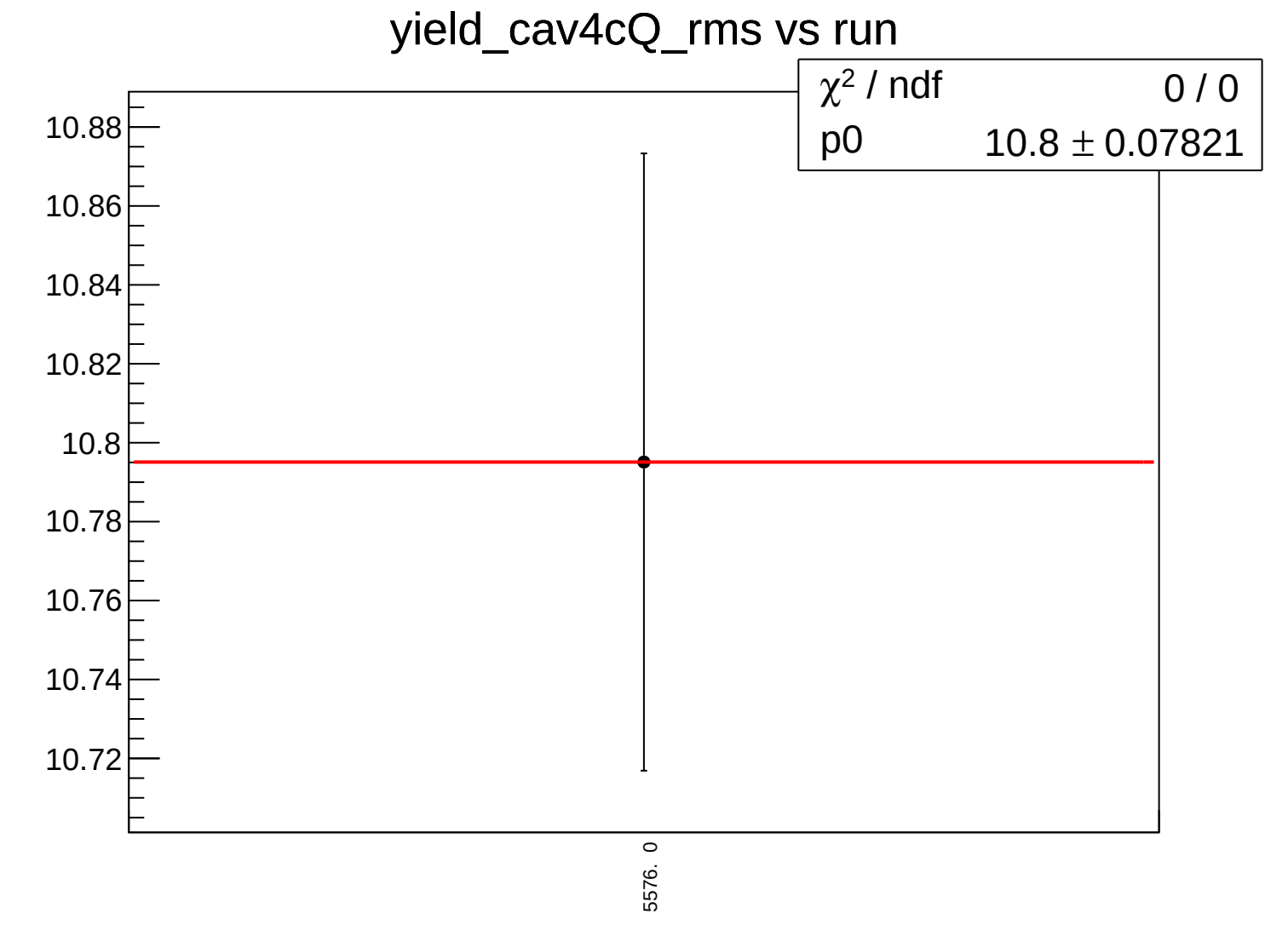

yield_cav4bQ_mean vs run
χ² / ndf 0 / 0
p0 403 ± 6.351e−05
2.95944
2.95942
402.9594
2.95938
2.95936
2.95934
2.95932
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1

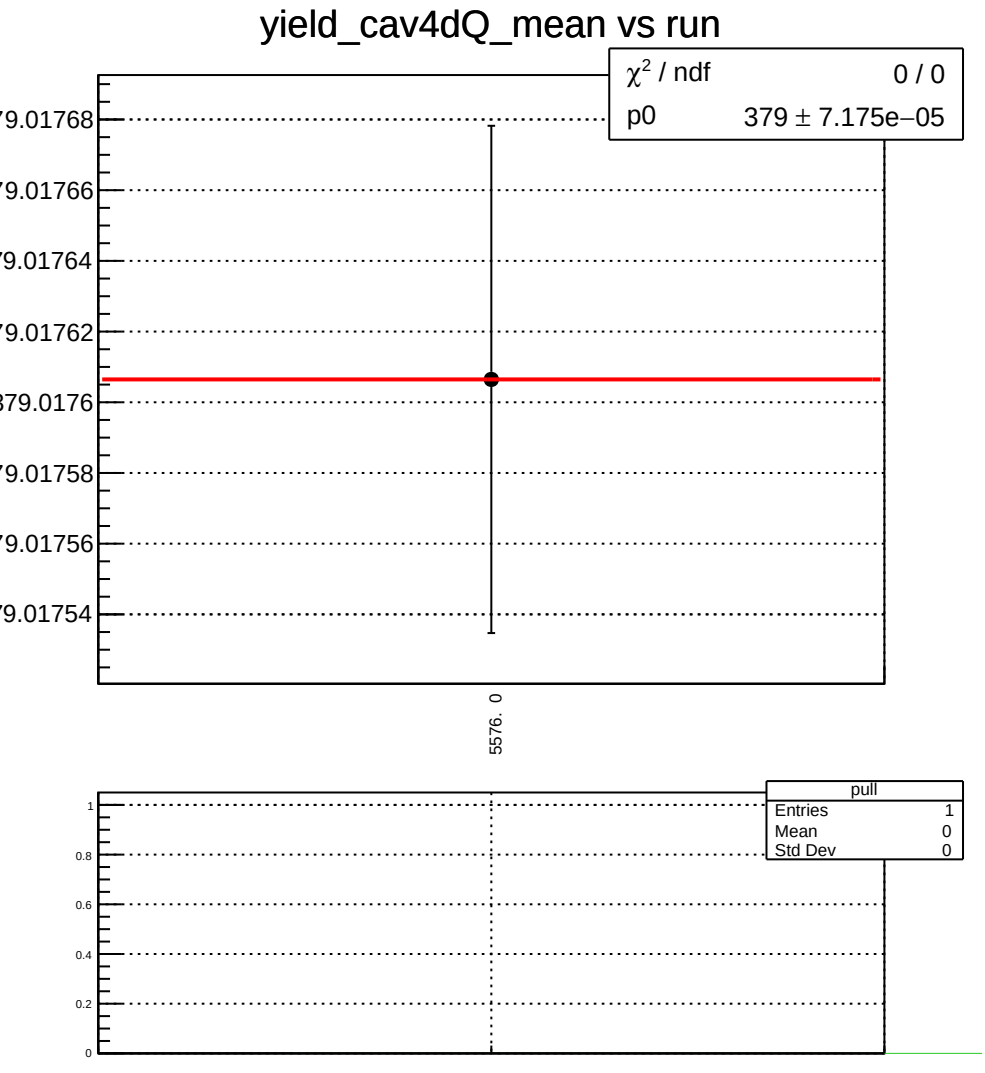

pull1D
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

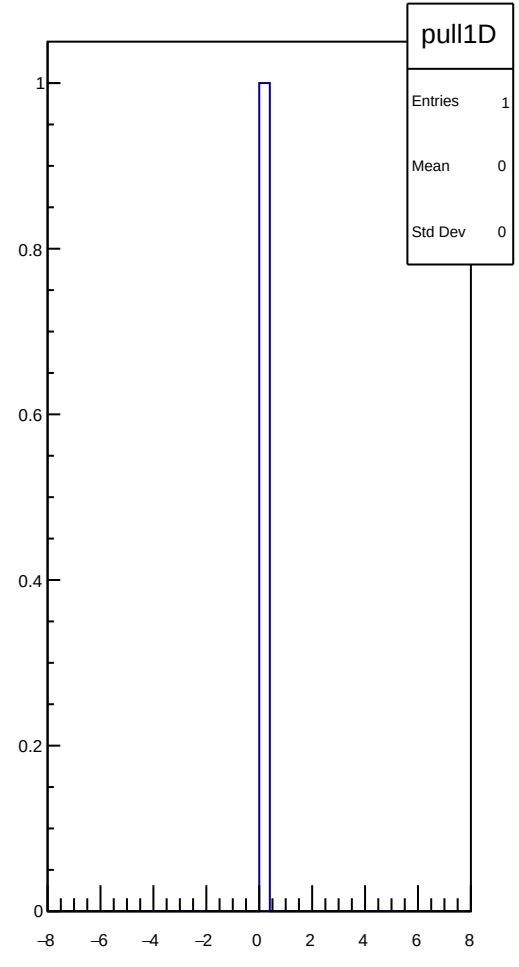

yield_cav4bQ_rms vs run
χ² / ndf 3.731e−28 / 0
p0 0.006198 ± 4.491e−05
0.00624
0.00622
0.0062
0.00618
0.00616
5576. 0

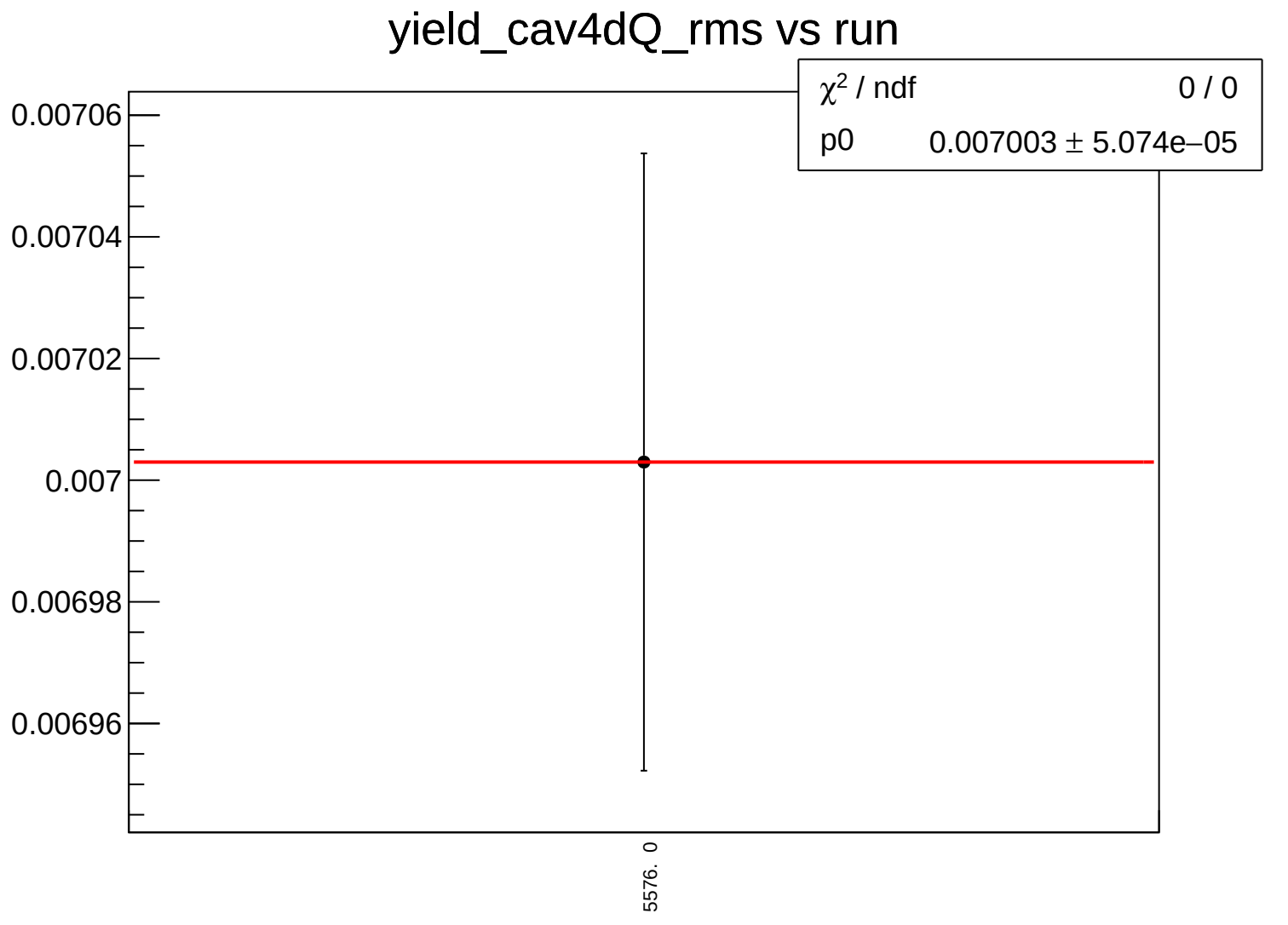

yield_cav4cQ_mean vs run
χ² / ndf 0 / 0
p0 133.4 ± 0.1106
133.55
133.5
133.45
133.4
133.35
133.3
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

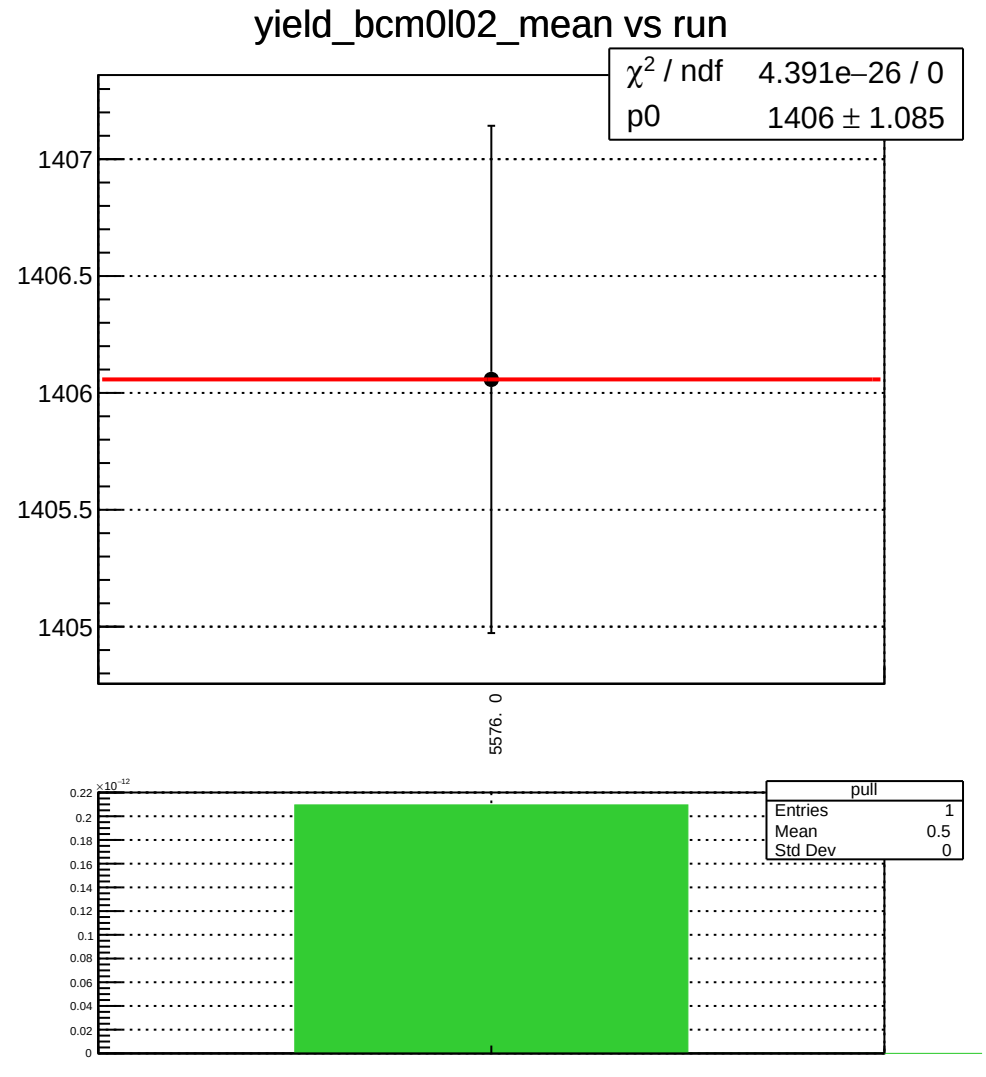

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

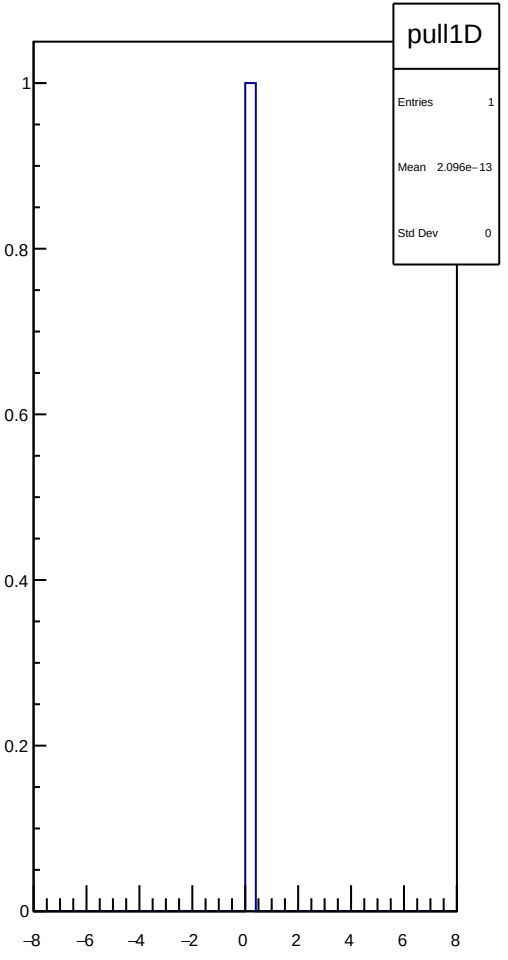

yield_cav4cQ_rms vs run
χ² / ndf 0 / 0
p0 10.8 ± 0.07821
10.88
10.86
10.84
10.82
10.8
10.78
10.76
10.74
10.72
5576. 0

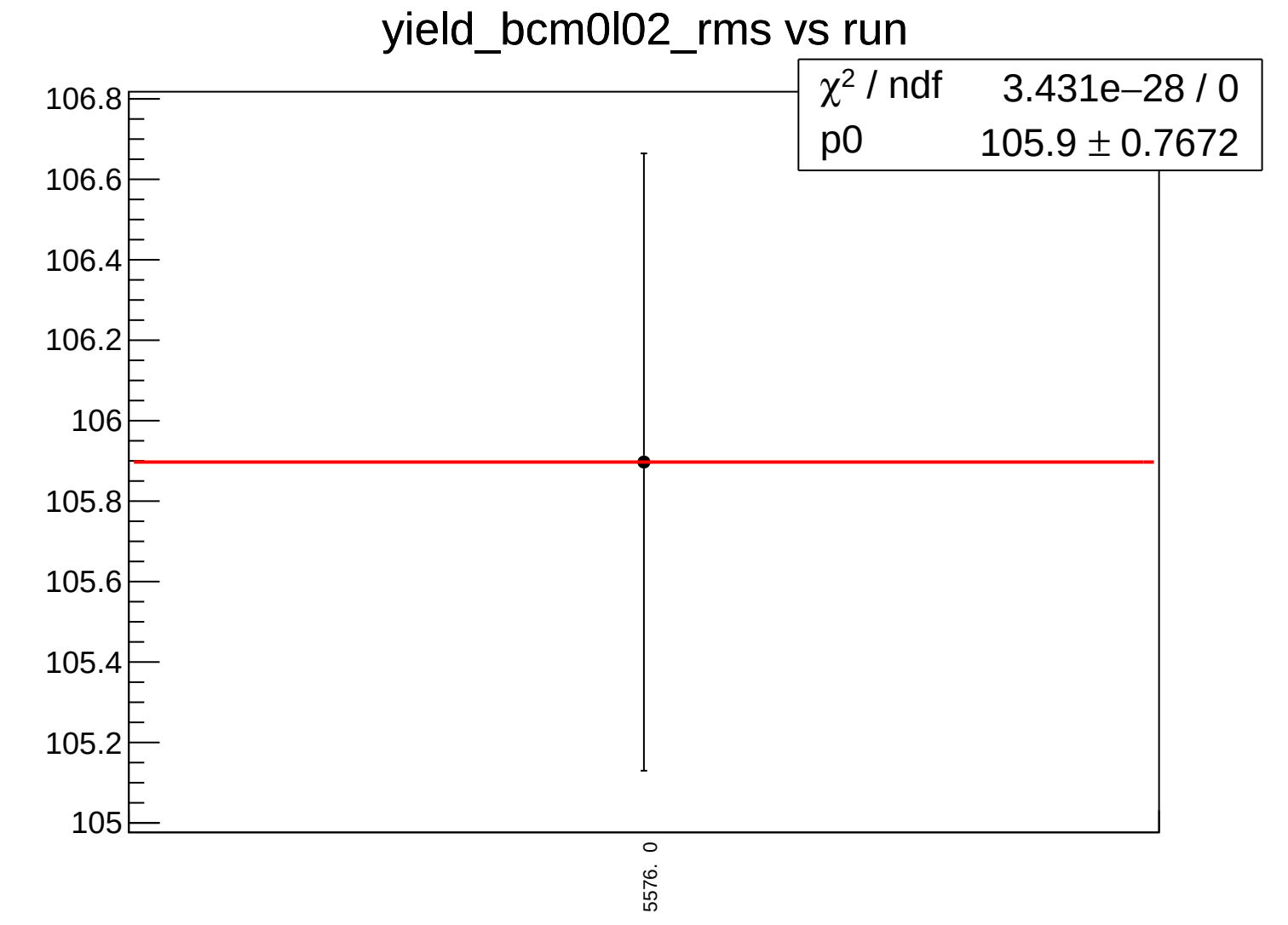

yield_cav4dQ_mean vs run
χ² / ndf 0 / 0
p0 379 ± 7.175e−05
79.01768
79.01766
79.01764
79.01762
379.0176
79.01758
79.01756
79.01754
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

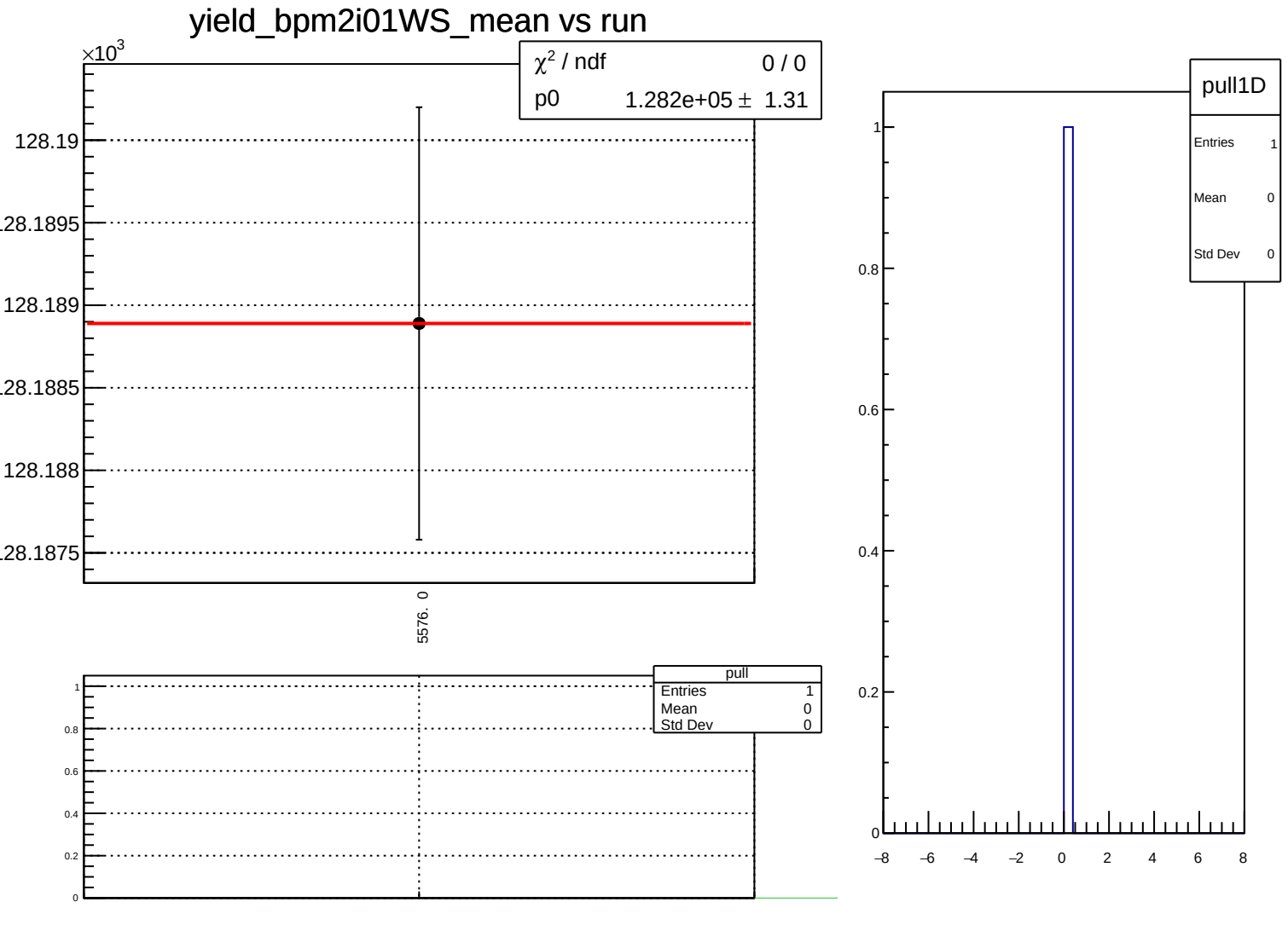

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

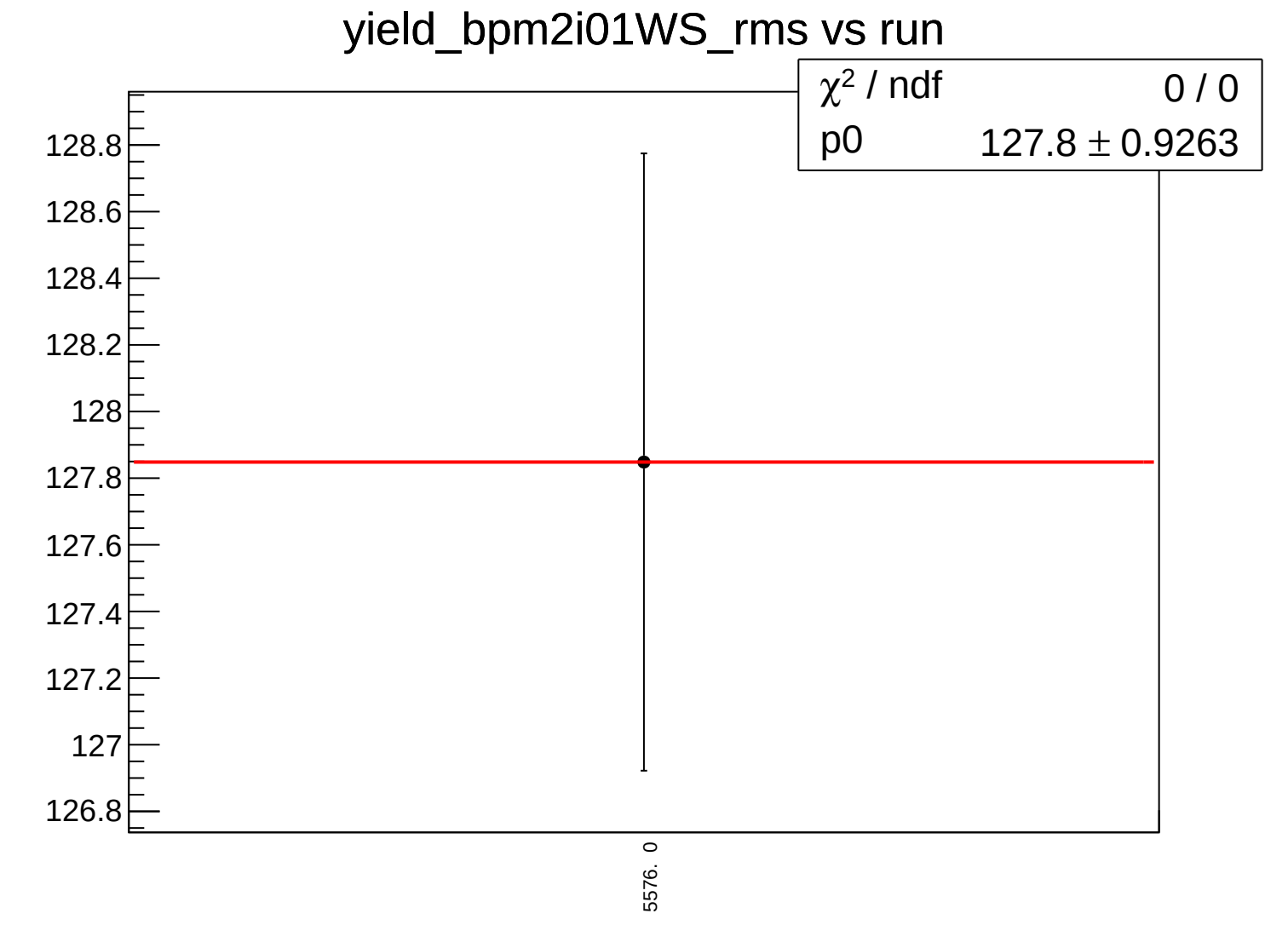

yield_cav4dQ_rms vs run
χ² / ndf 0 / 0
p0 0.007003 ± 5.074e−05
0.00706
0.00704
0.00702
0.007
0.00698
0.00696
5576. 0

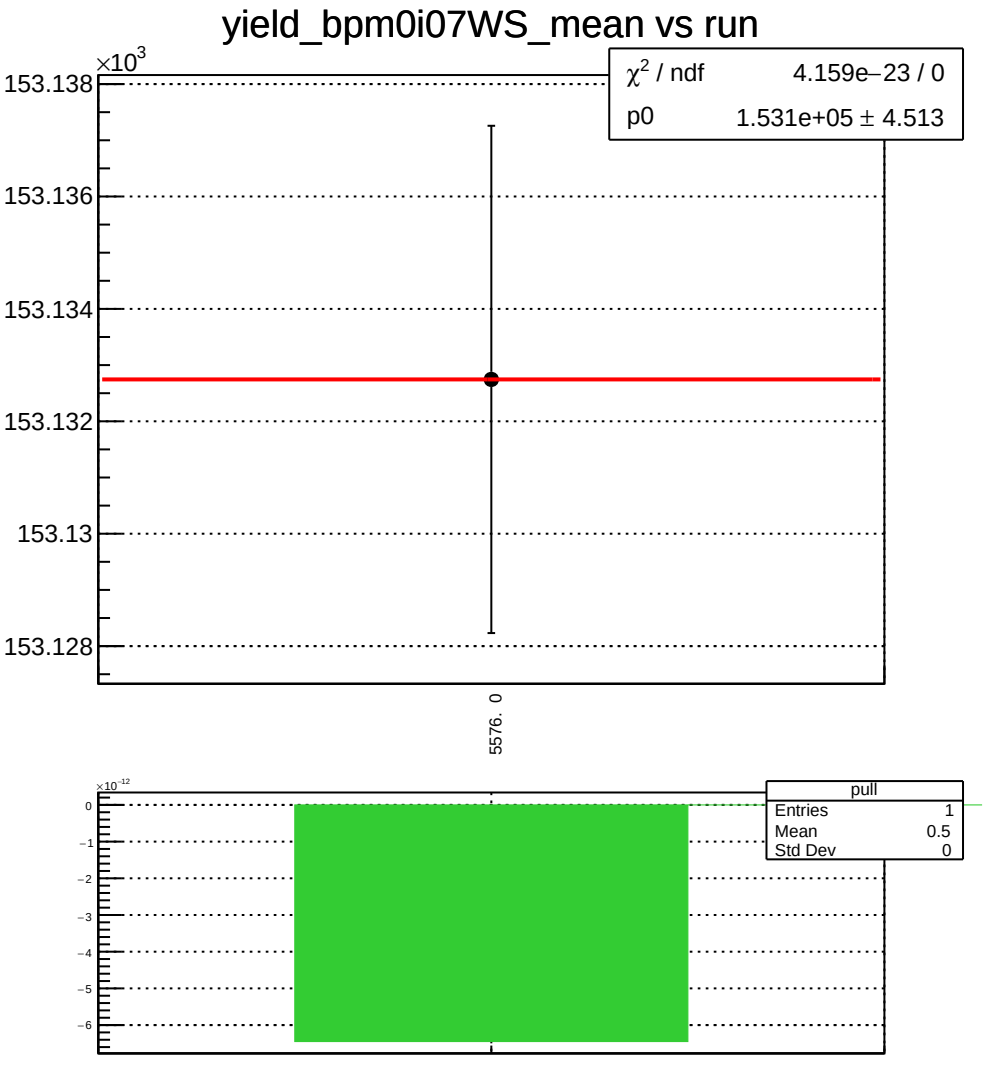

yield_bcm0l02_mean vs run
χ² / ndf 4.391e−26 / 0
p0 1406 ± 1.085
1407
1406.5
1406
1405.5
1405
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
×10⁻¹²
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

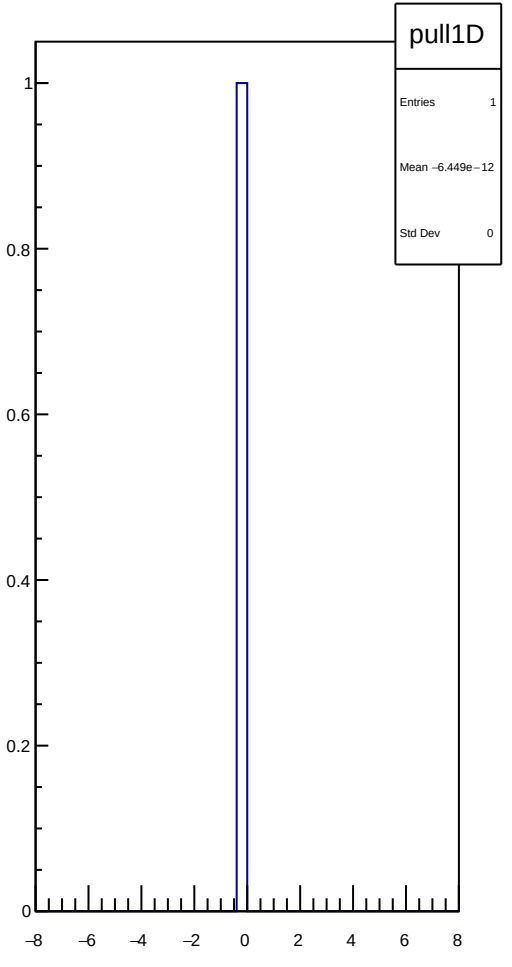

pull1D
Entries 1
Mean 2.096e−13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

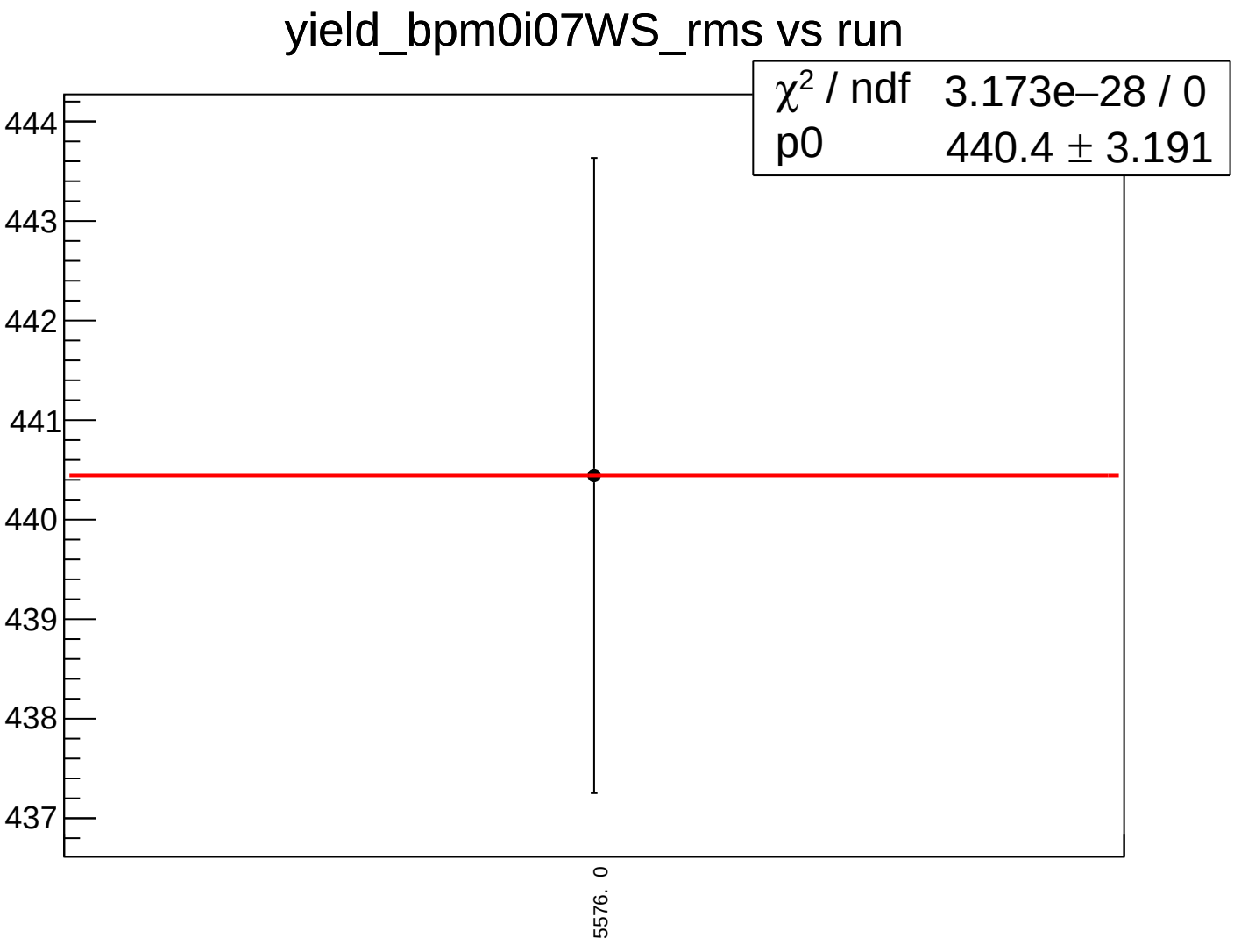

yield_bcm0l02_rms vs run
χ² / ndf 3.431e–28 / 0
p0 105.9 ± 0.7672
106.8
106.6
106.4
106.2
106
105.8
105.6
105.4
105.2
105
5576. 0

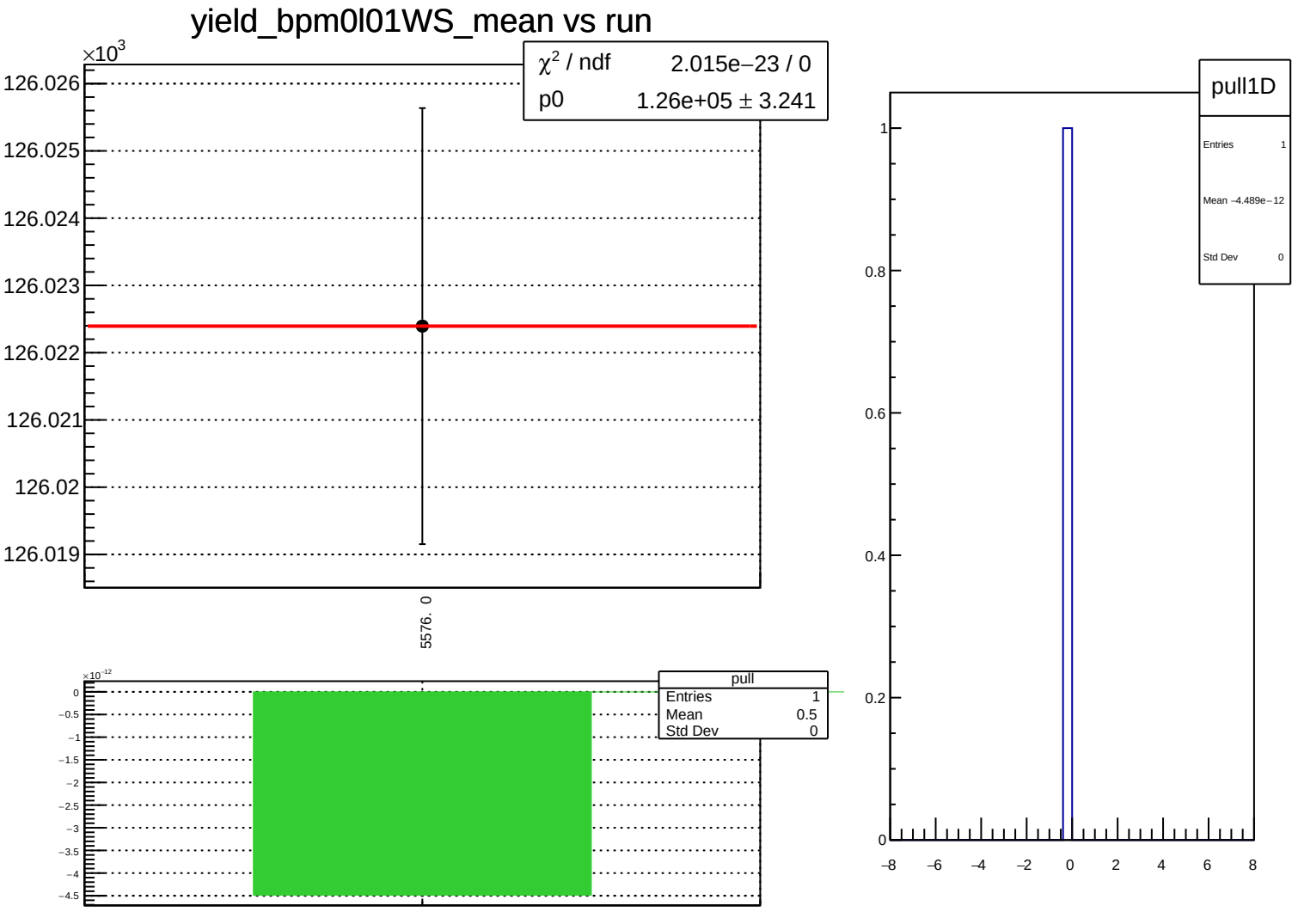

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 0 / 0
p0 1.282e+05 ± 1.31
128.19
128.1895
128.189
128.1885
128.188
128.1875
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

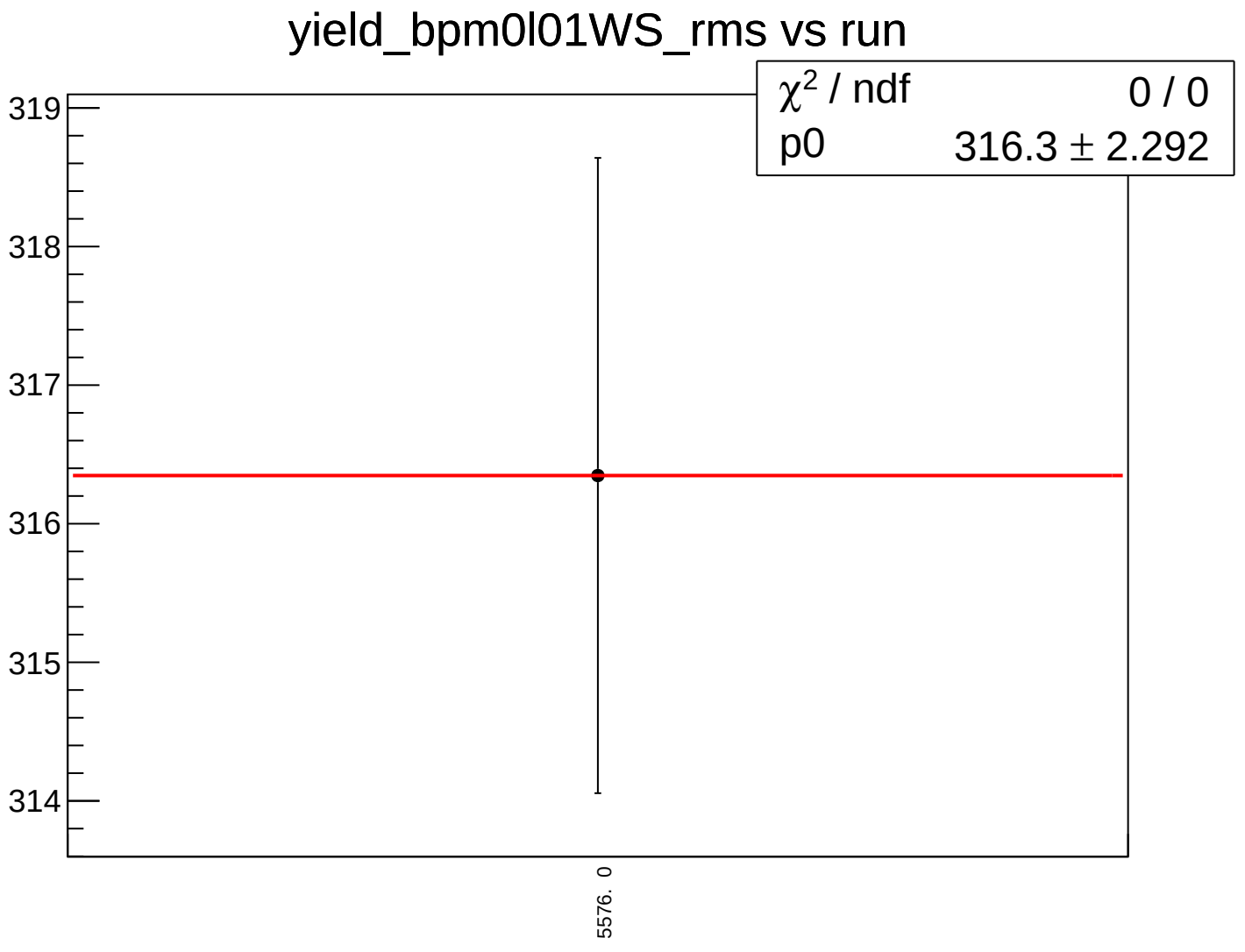

yield_bpm2i01WS_rms vs run
χ² / ndf 0 / 0
p0 127.8 ± 0.9263
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
5576. 0

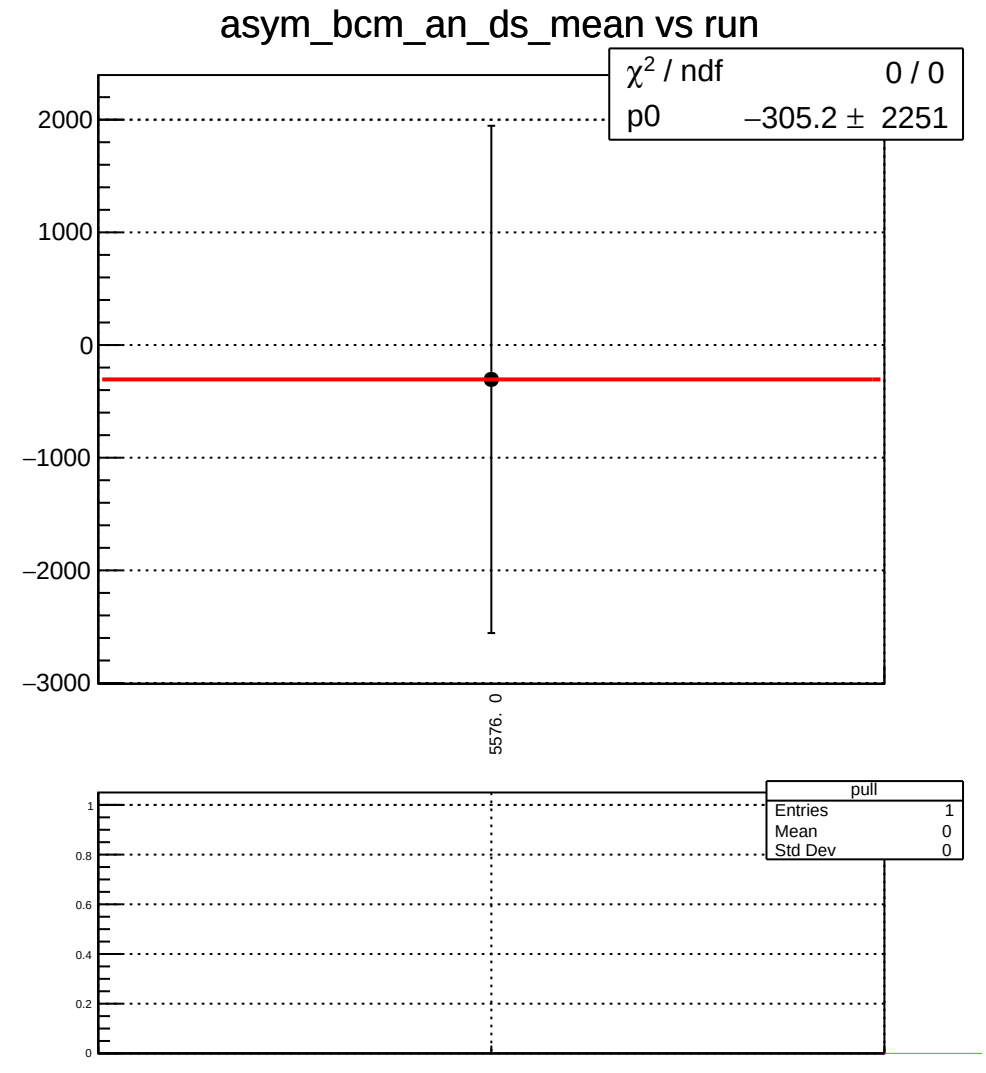

yield_bpm0i07WS_mean vs run
×10^3
153.138
153.136
153.134
153.132
153.13
153.128
χ² / ndf 4.159e−23 / 0
p0 1.531e+05 ± 4.513
5576. 0
×10^-12
0
−1
−2
−3
−4
−5
−6
pull
Entries 1
Mean 0.5
Std Dev 0

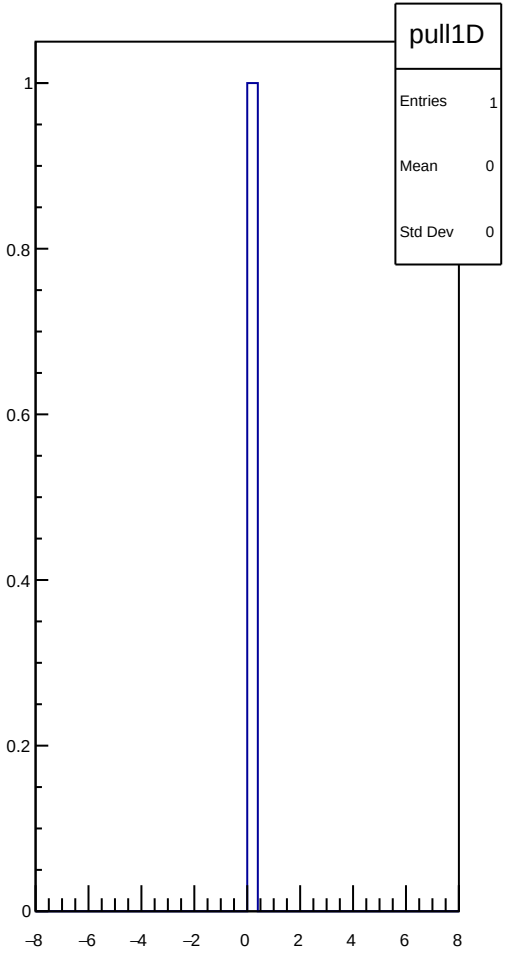

pull1D
Entries 1
Mean −6.449e−12
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

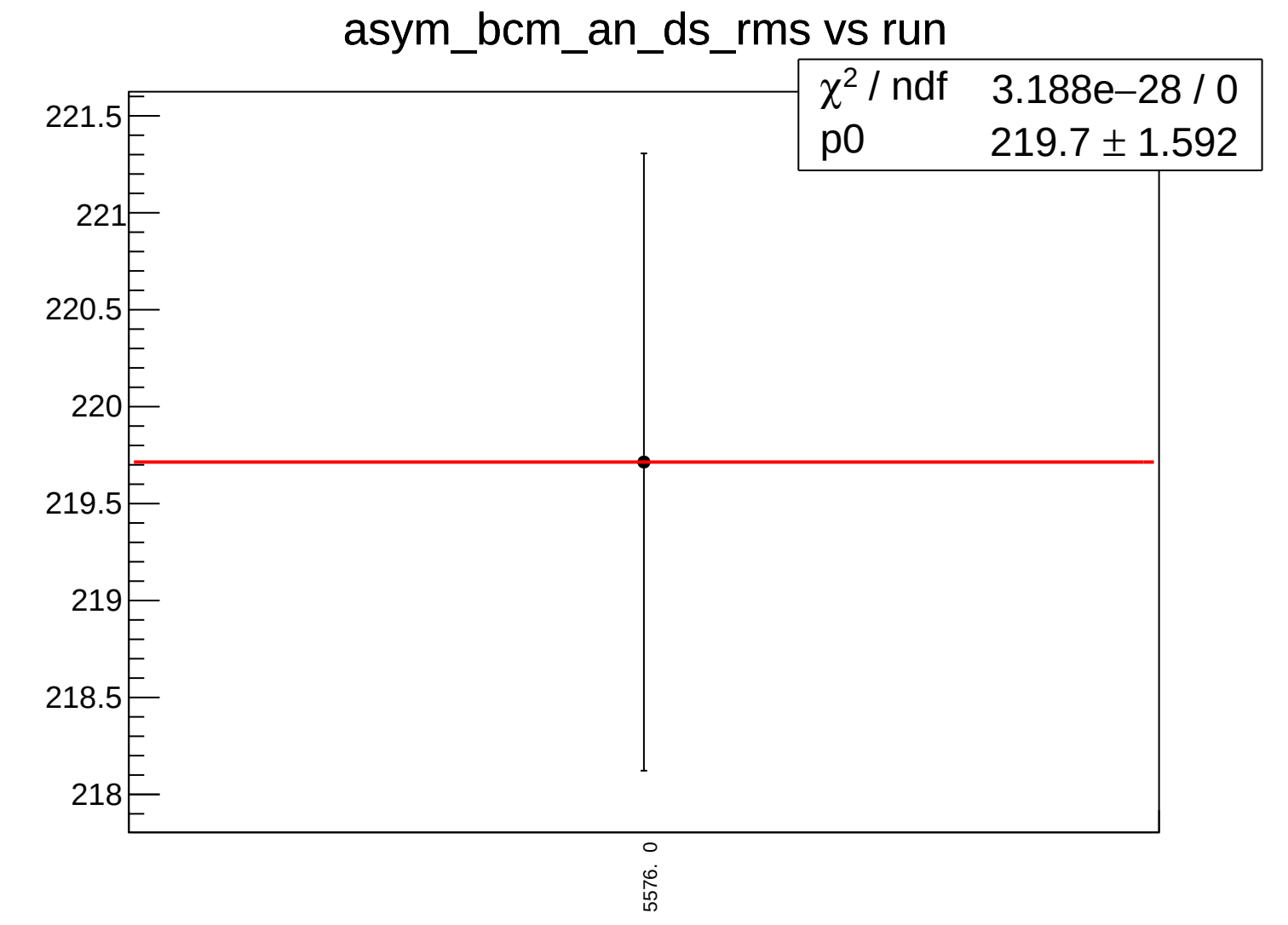

yield_bpm0i07WS_rms vs run
χ² / ndf 3.173e–28 / 0
p0 440.4 ± 3.191
444
443
442
441
440
439
438
437
5576. 0

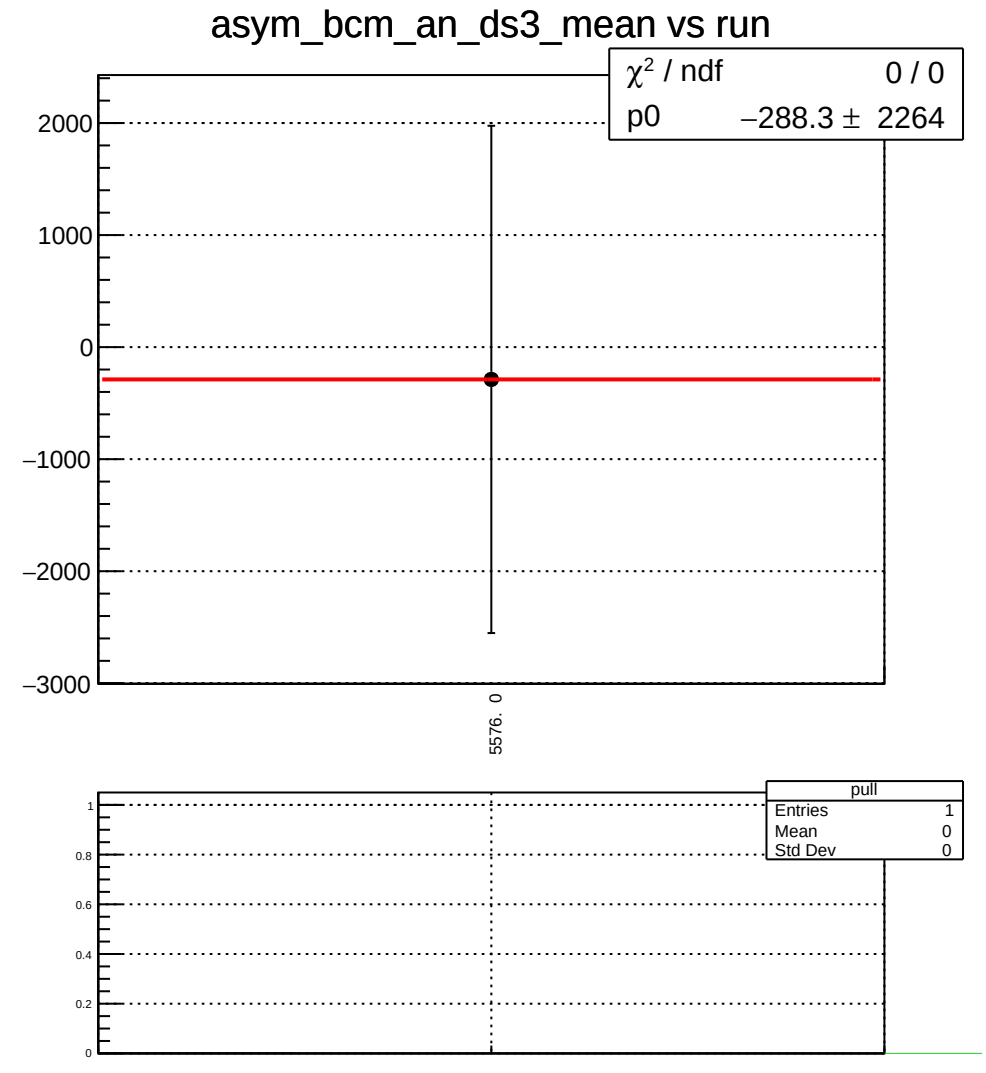

yield_bpm0l01WS_mean vs run
×10^3
126.026
126.025
126.024
126.023
126.022
126.021
126.02
126.019
χ² / ndf 2.015e−23 / 0
p0 1.26e+05 ± 3.241
5576. 0
×10^-12
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.489e−12
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

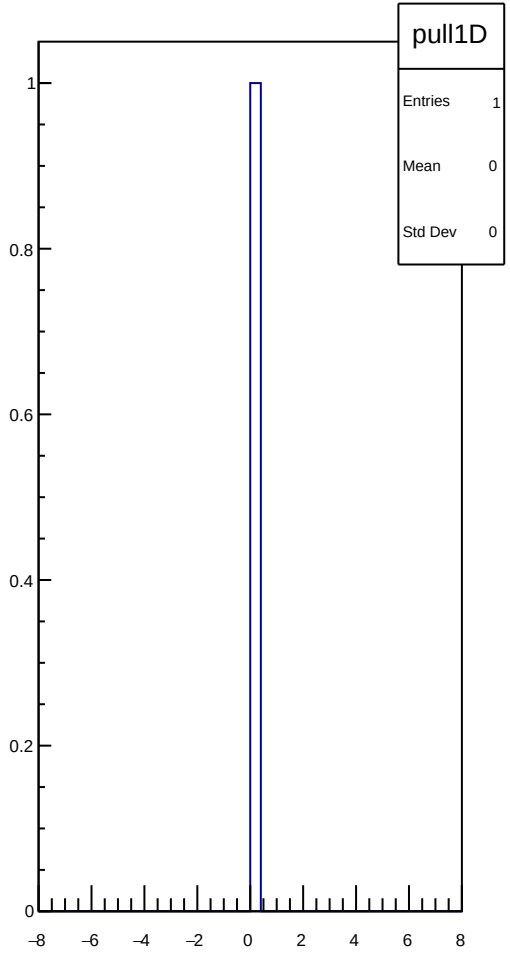

yield_bpm0l01WS_rms vs run
χ² / ndf 0 / 0
p0 316.3 ± 2.292
319
318
317
316
315
314
5576. 0

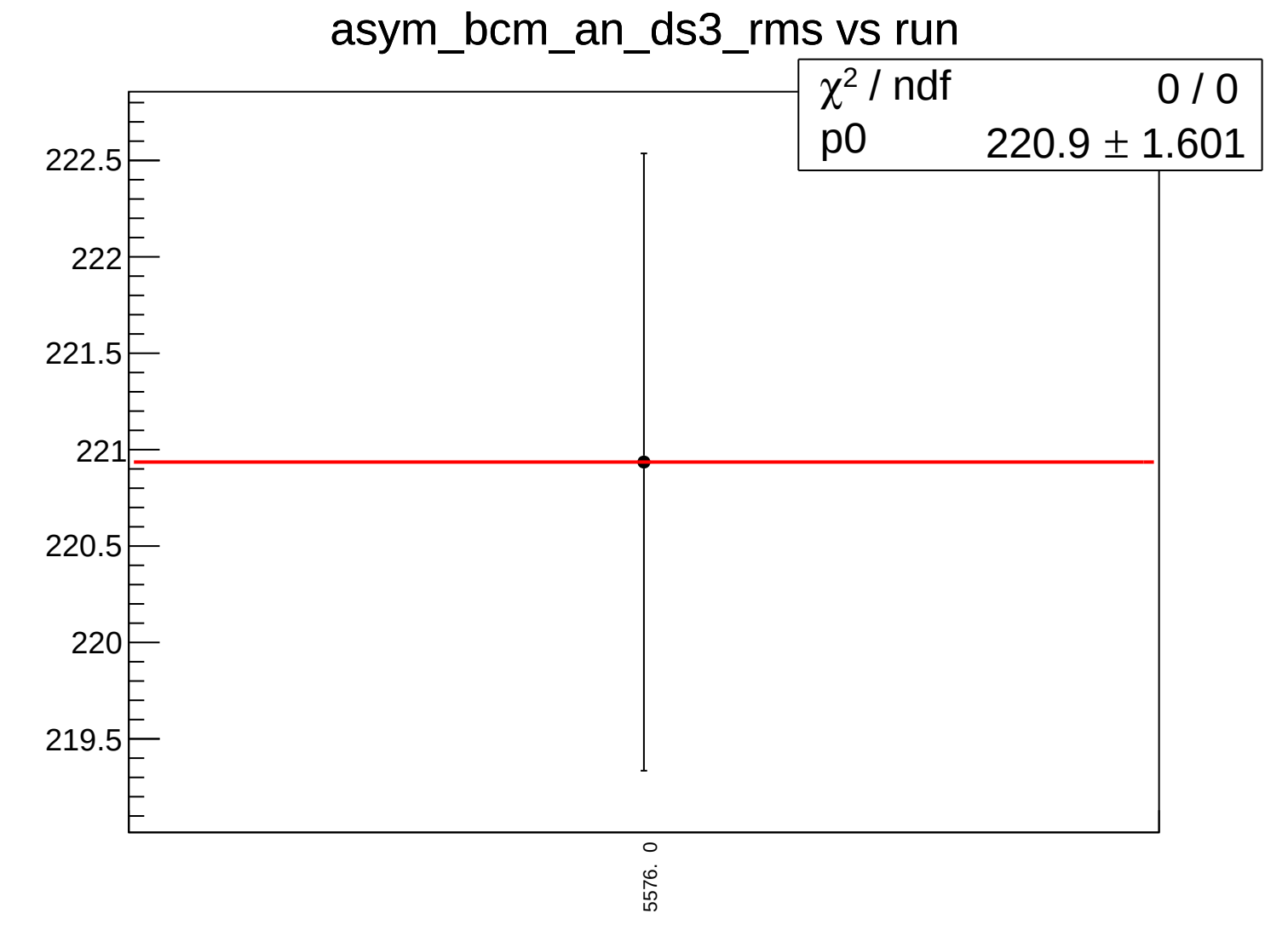

asym_bcm_an_ds_mean vs run
χ² / ndf 0 / 0
p0 −305.2 ± 2251
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

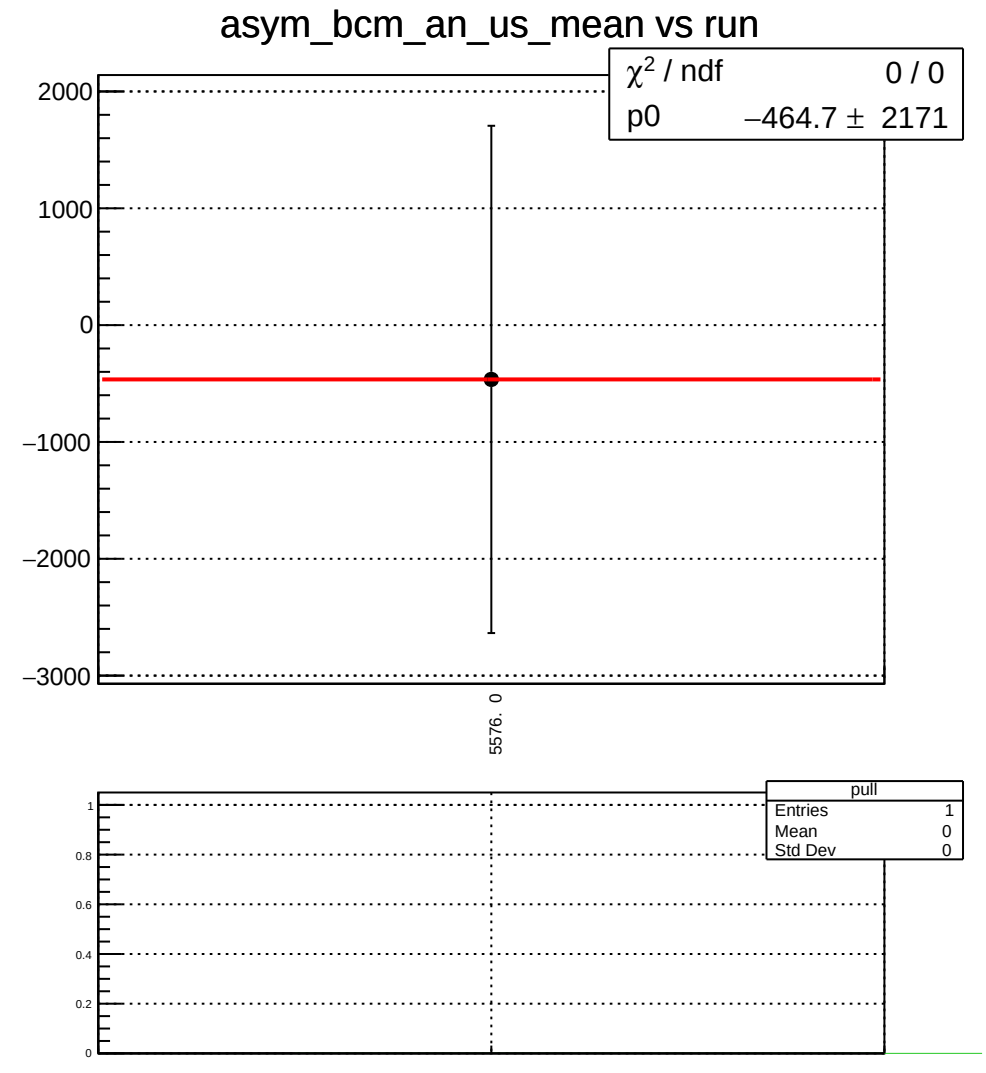

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

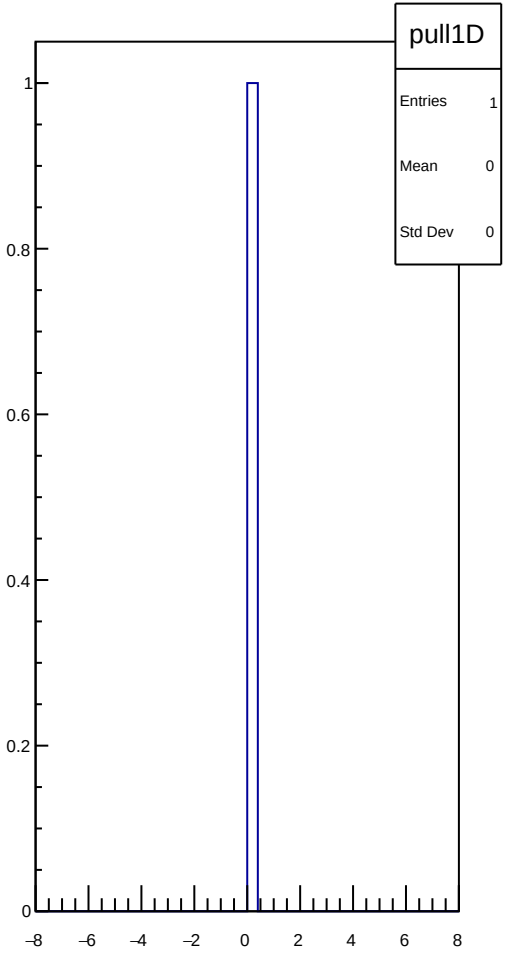

asym_bcm_an_ds_rms vs run
χ² / ndf 3.188e−28 / 0
p0 219.7 ± 1.592
221.5
221
220.5
220
219.5
219
218.5
218
5576. 0

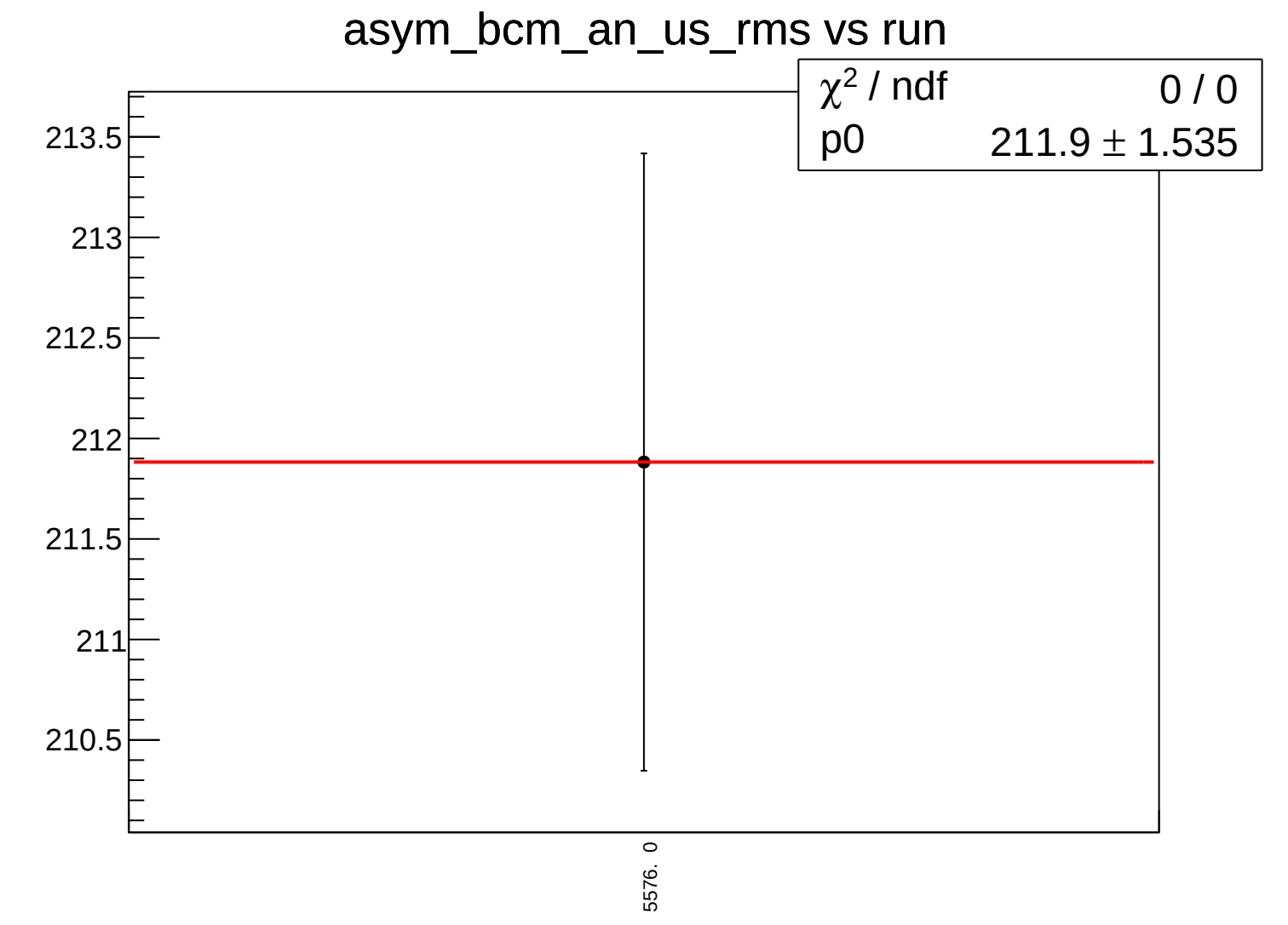

asym_bcm_an_ds3_mean vs run
χ² / ndf 0 / 0
p0 −288.3 ± 2264
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

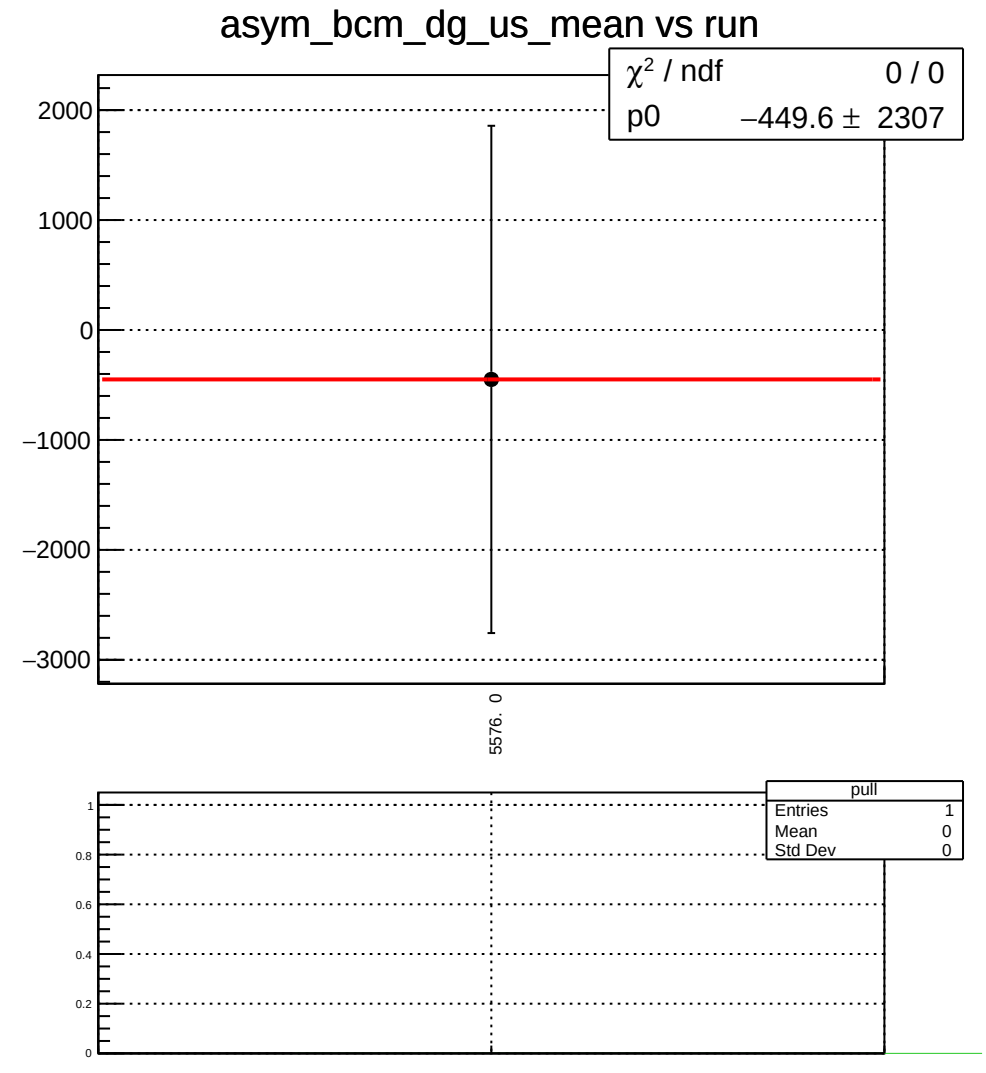

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

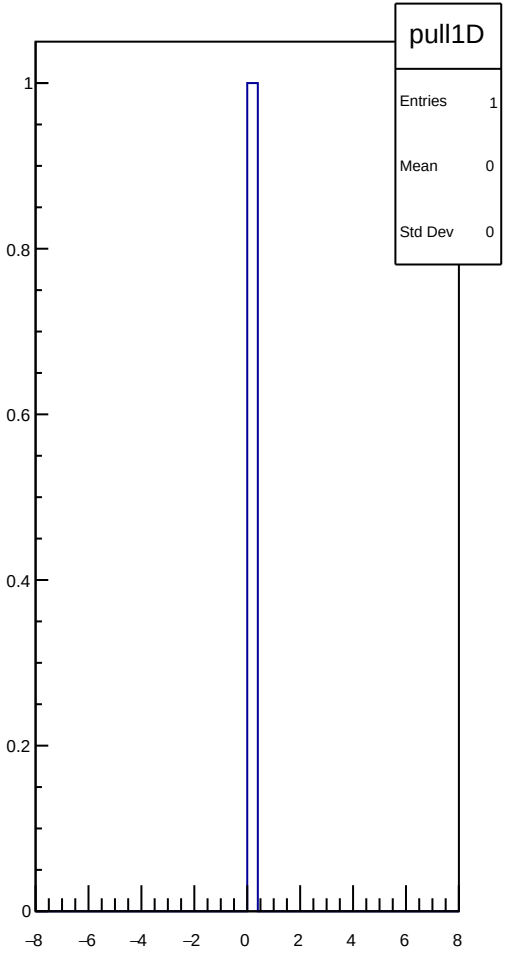

asym_bcm_an_ds3_rms vs run
χ² / ndf 0 / 0
p0 220.9 ± 1.601
222.5
222
221.5
221
220.5
220
219.5
5576. 0

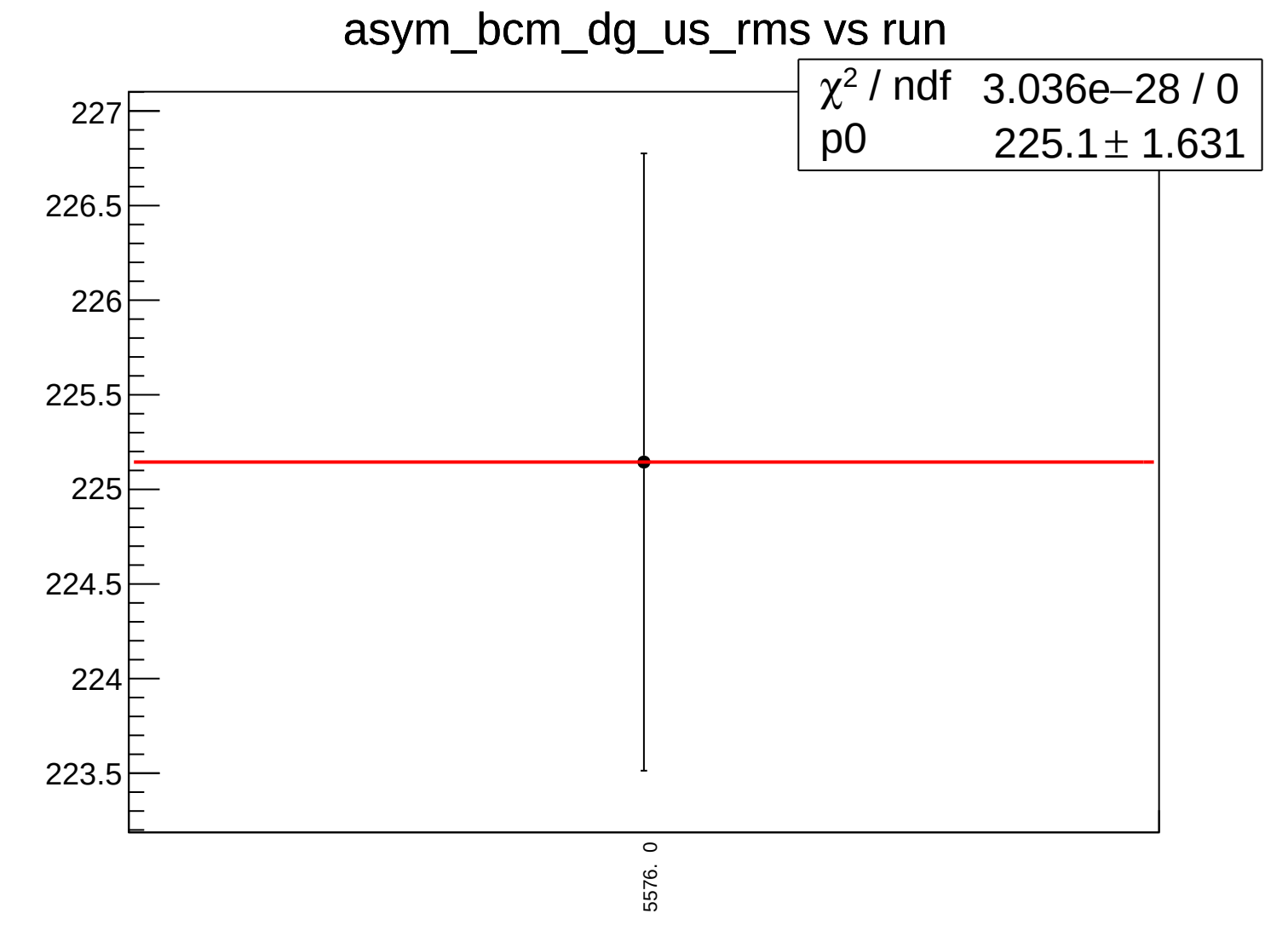

asym_bcm_an_us_mean vs run
χ² / ndf 0 / 0
p0 −464.7 ± 2171
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

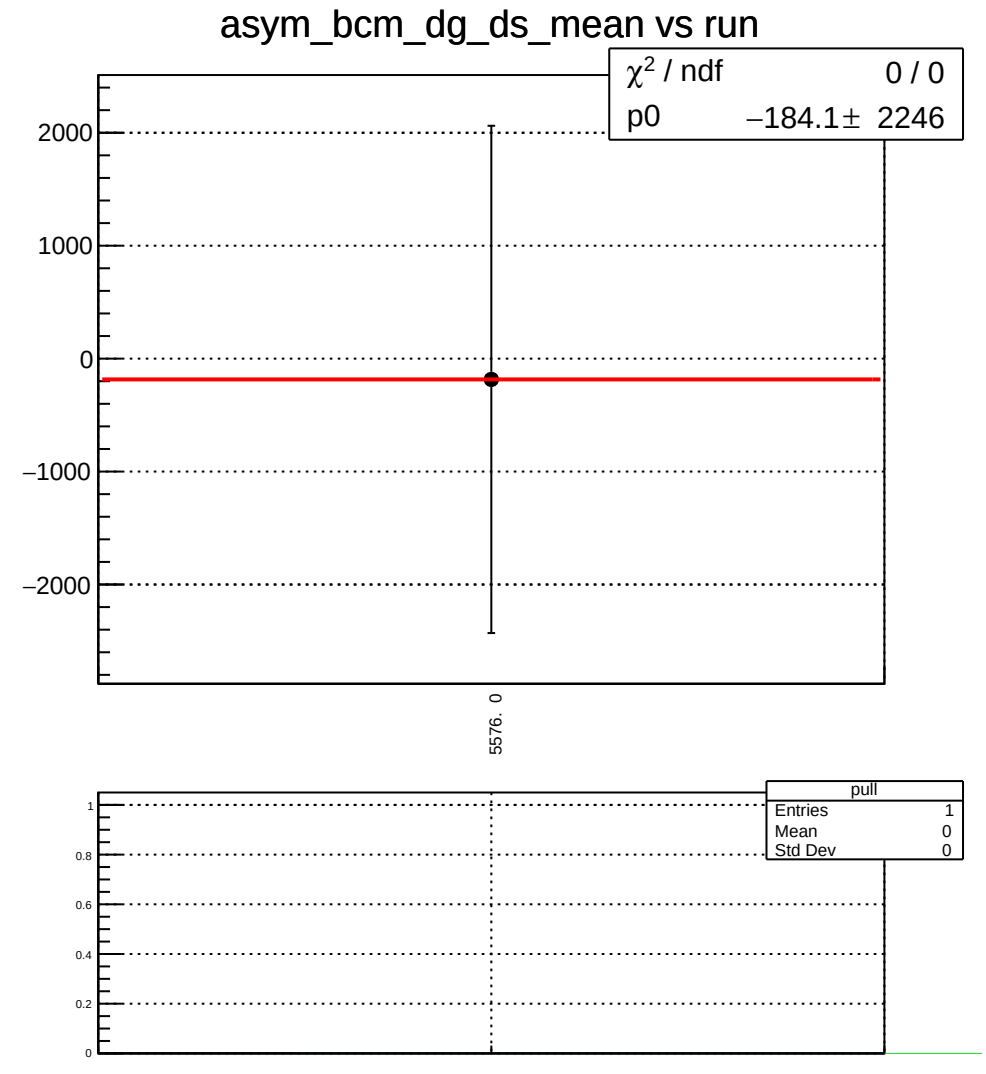

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

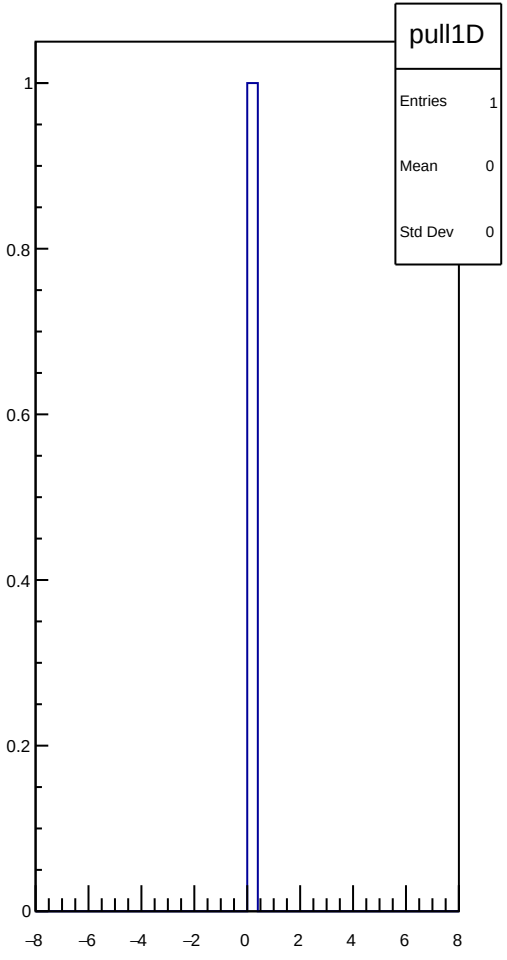

asym_bcm_an_us_rms vs run
χ² / ndf 0 / 0
p0 211.9 ± 1.535
213.5
213
212.5
212
211.5
211
210.5
5576. 0

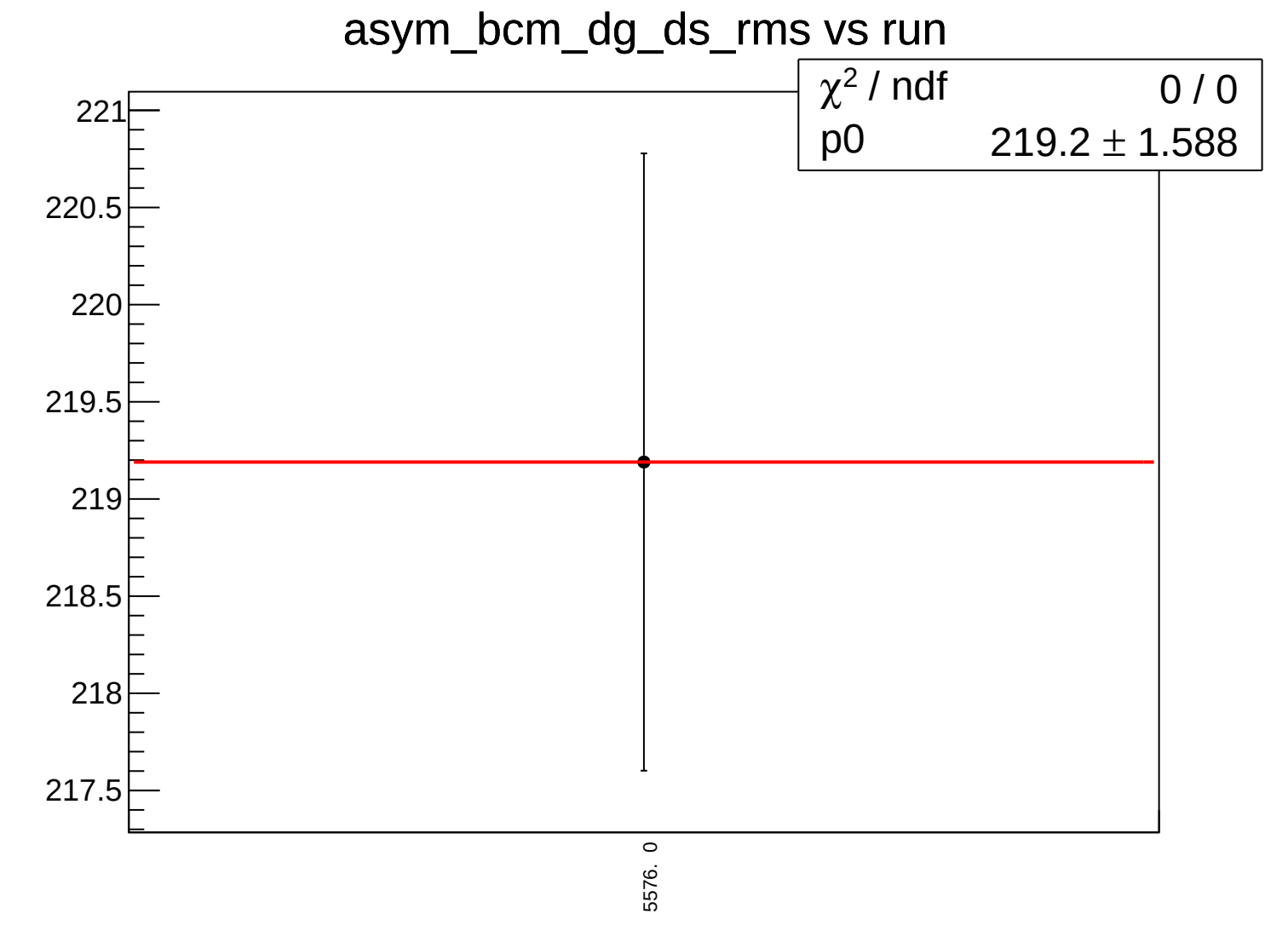

asym_bcm_dg_us_mean vs run
χ² / ndf 0 / 0
p0 −449.6 ± 2307
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

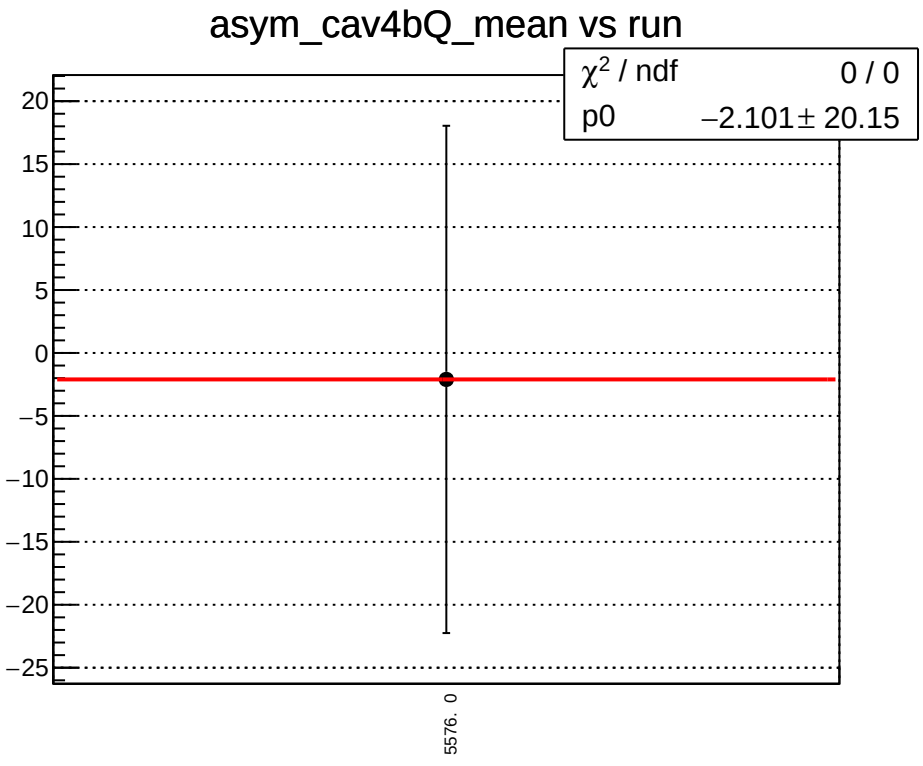

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

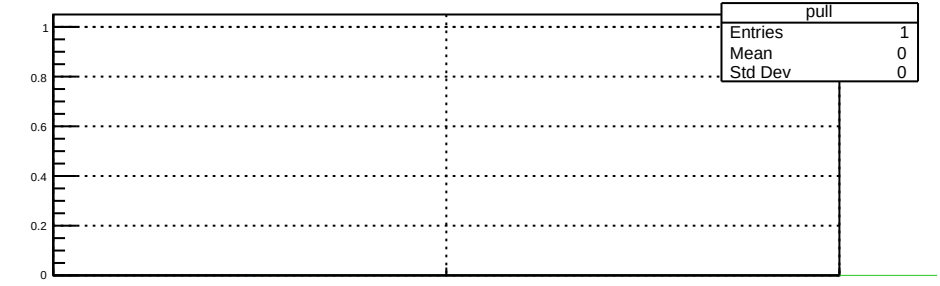

asym_bcm_dg_us_rms vs run
χ² / ndf 3.036e−28 / 0
p0 225.1 ± 1.631
227
226.5
226
225.5
225
224.5
224
223.5
5576. 0

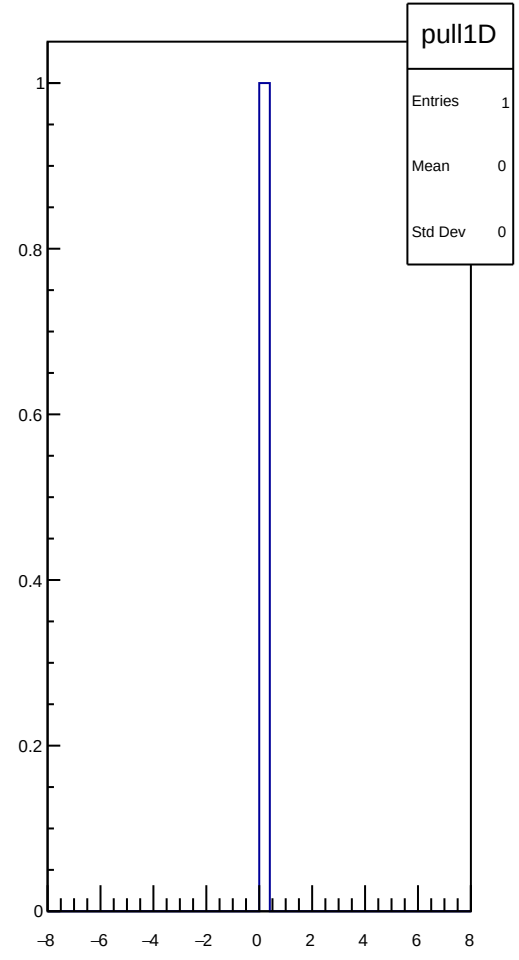

asym_bcm_dg_ds_mean vs run
χ² / ndf 0 / 0
p0 −184.1± 2246
2000
1000
0
−1000
−2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

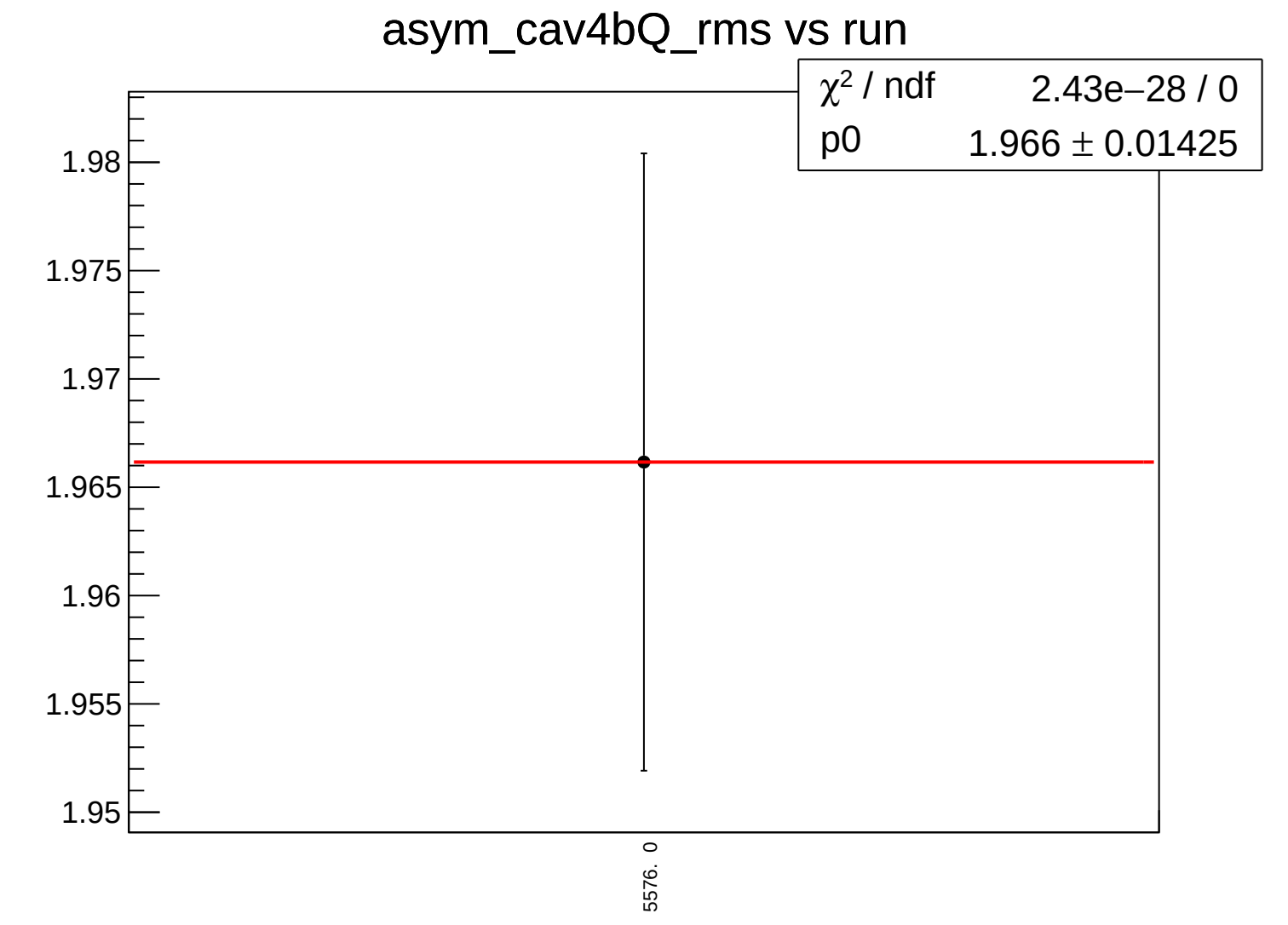

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

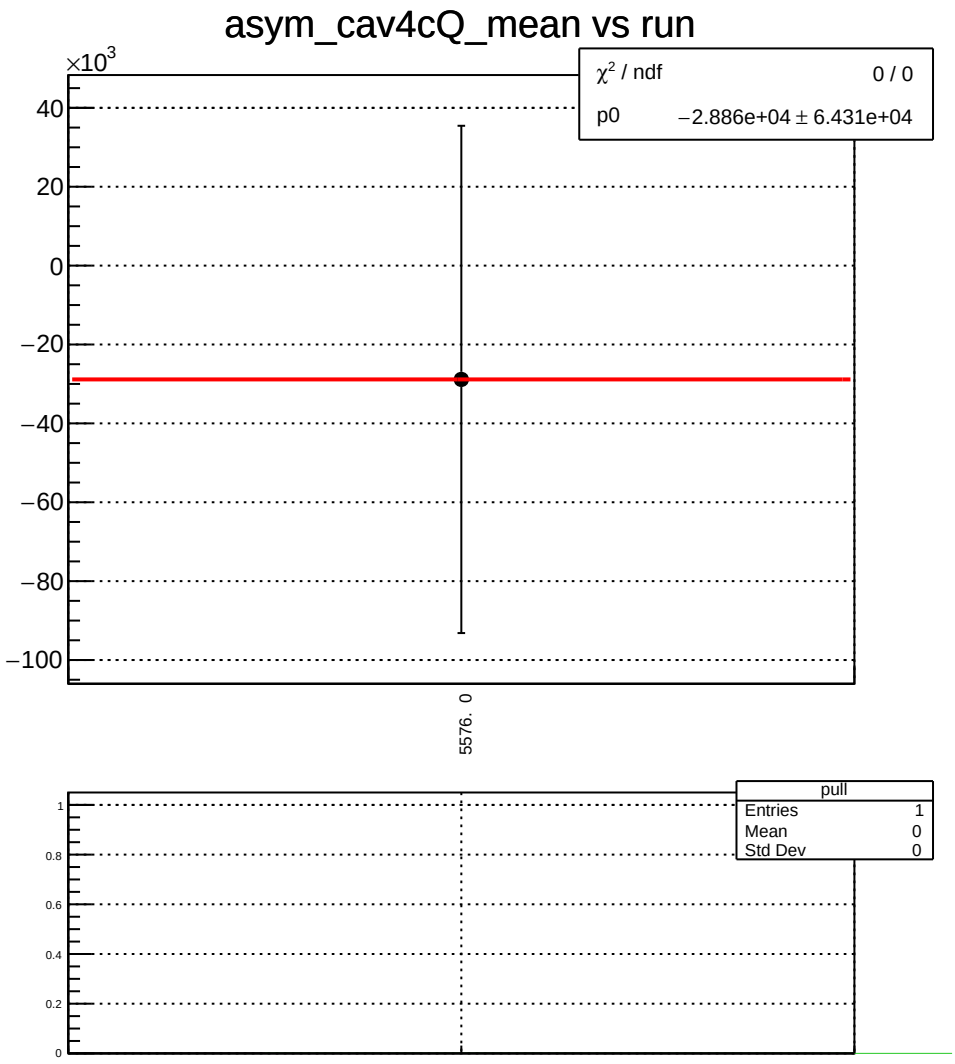

asym_bcm_dg_ds_rms vs run
χ² / ndf 0 / 0
p0 219.2 ± 1.588
221
220.5
220
219.5
219
218.5
218
217.5
5576. 0

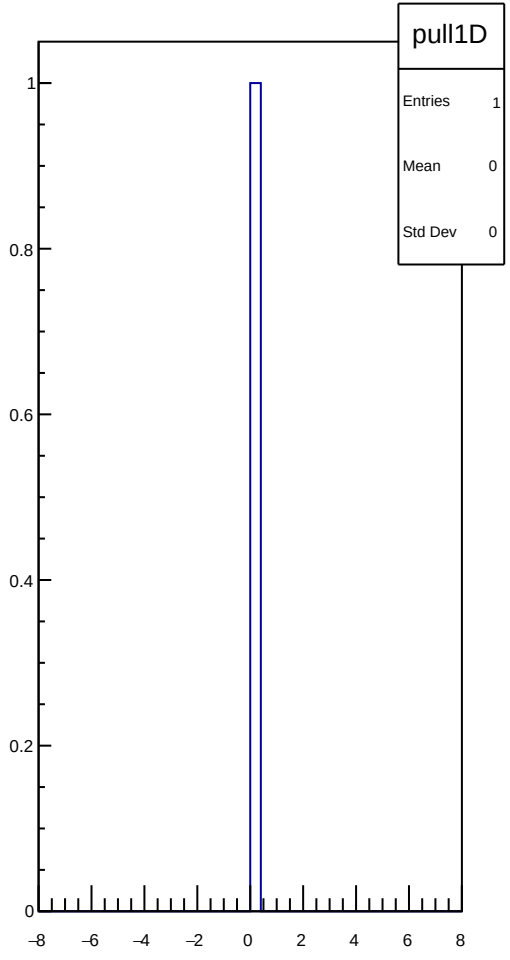

asym_cav4bQ_mean vs run
χ² / ndf 0 / 0
p0 −2.101 ± 20.15
20
15
10
5
0
−5
−10
−15
−20
−25
5576. 0

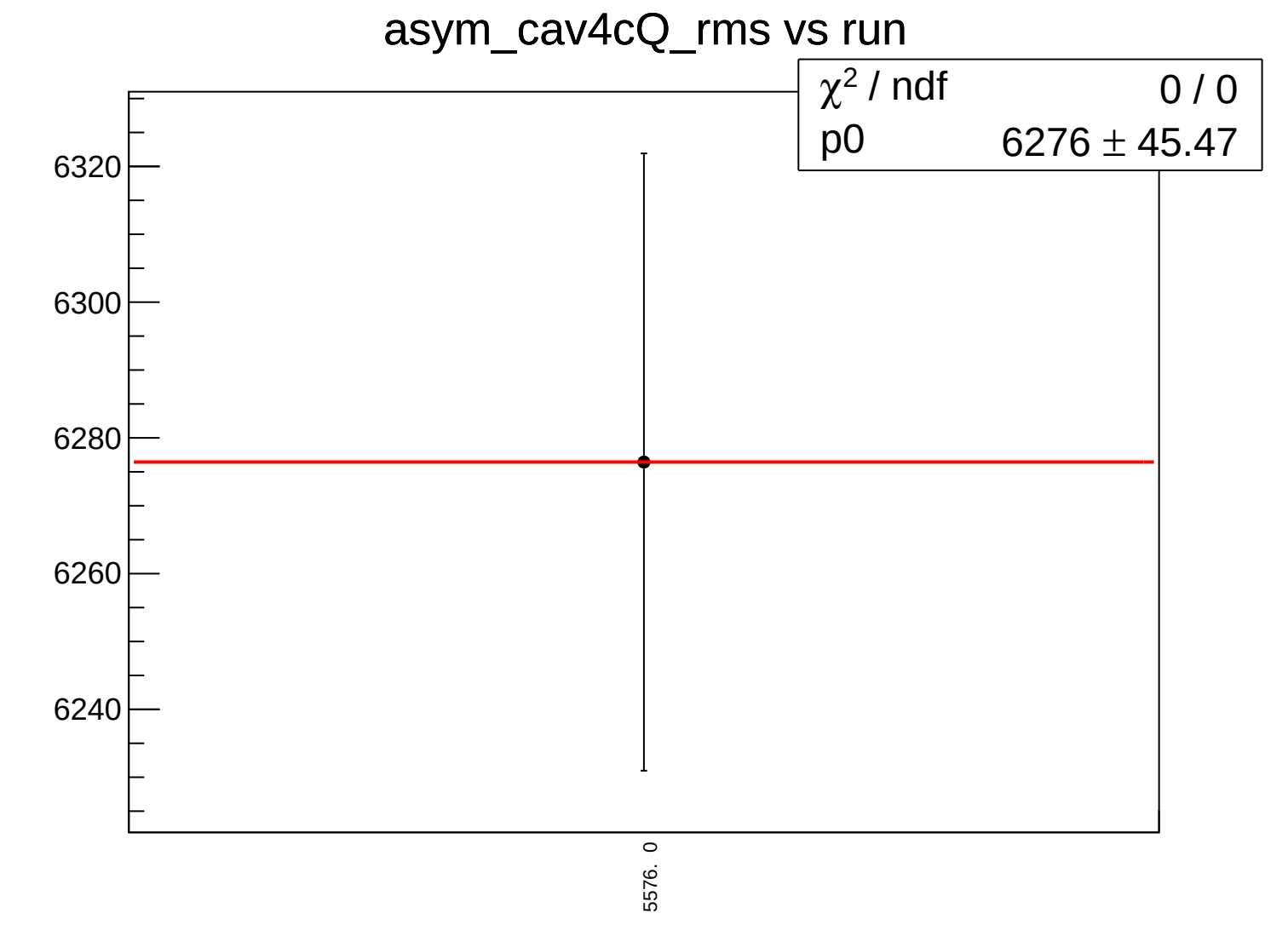

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

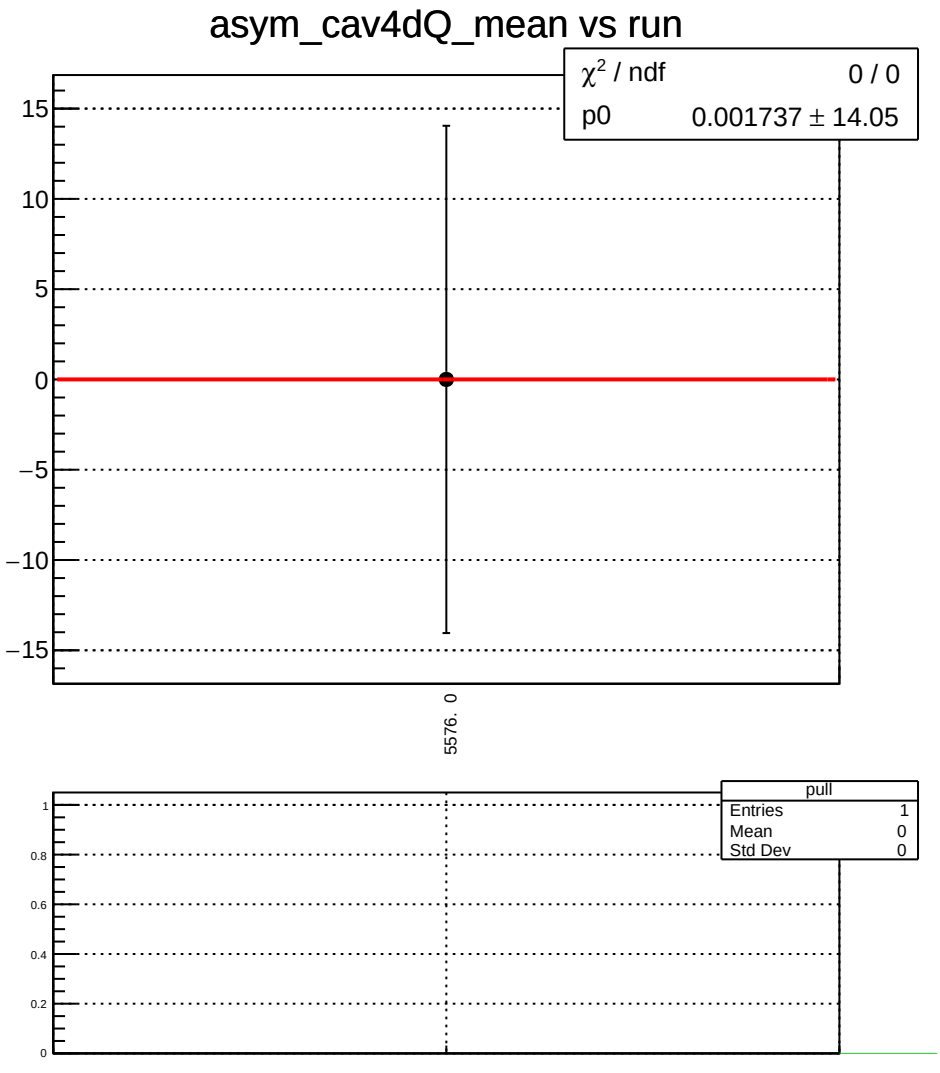

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

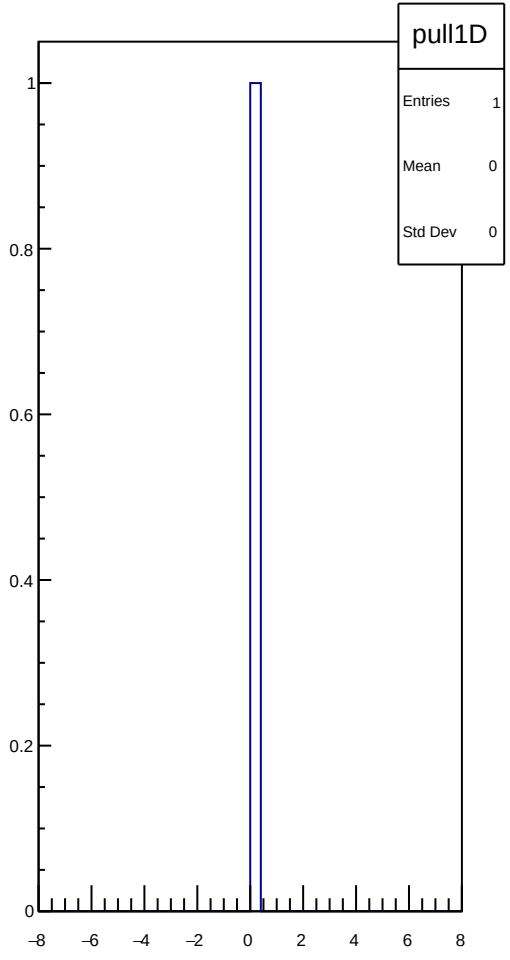

asym_cav4bQ_rms vs run
χ² / ndf 2.43e−28 / 0
p0 1.966 ± 0.01425
1.98
1.975
1.97
1.965
1.96
1.955
1.95
5576. 0

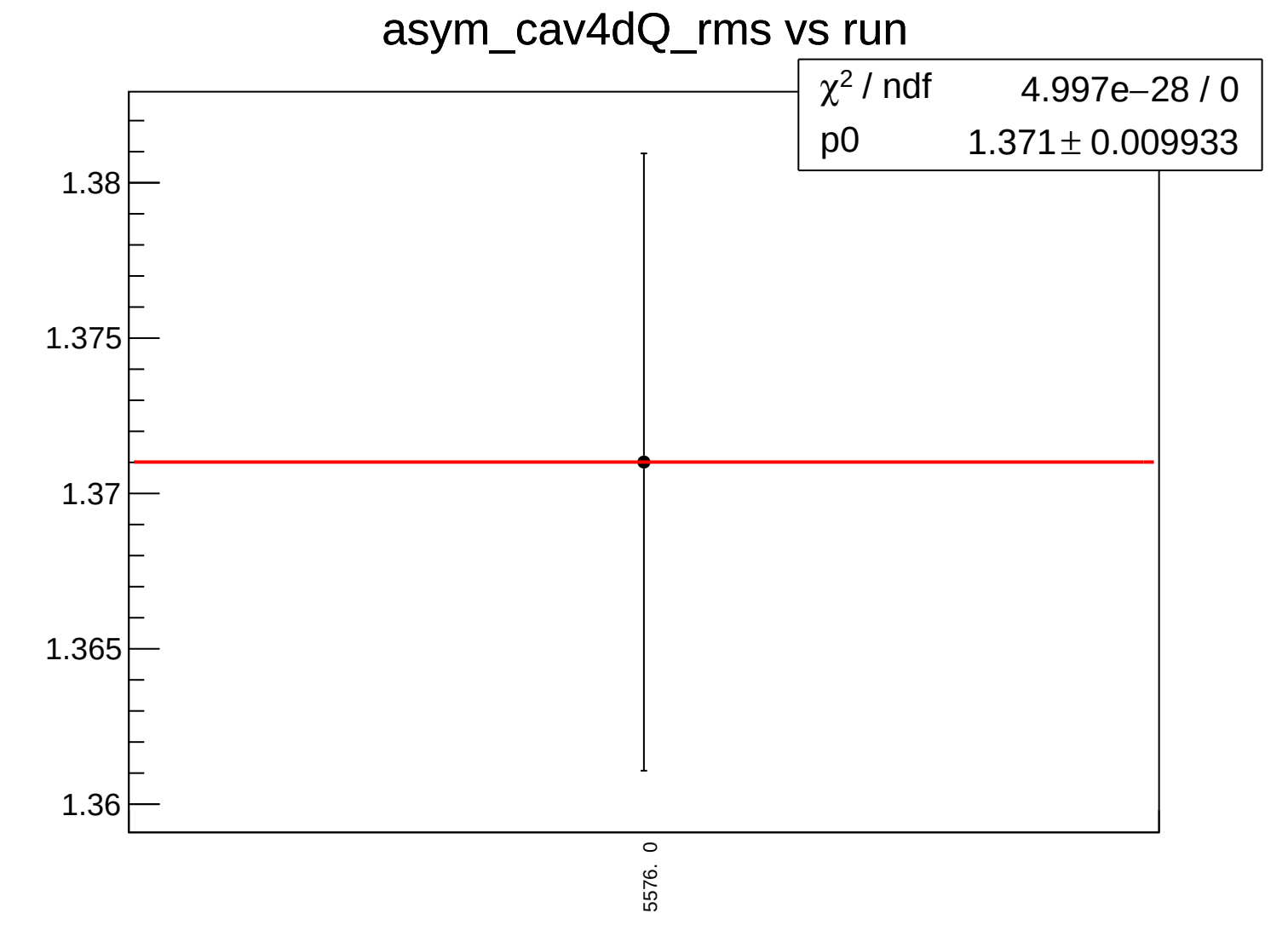

asym_cav4cQ_mean vs run
×10^3
40
20
0
−20
−40
−60
−80
−100
χ² / ndf 0 / 0
p0 −2.886e+04 ± 6.431e+04
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

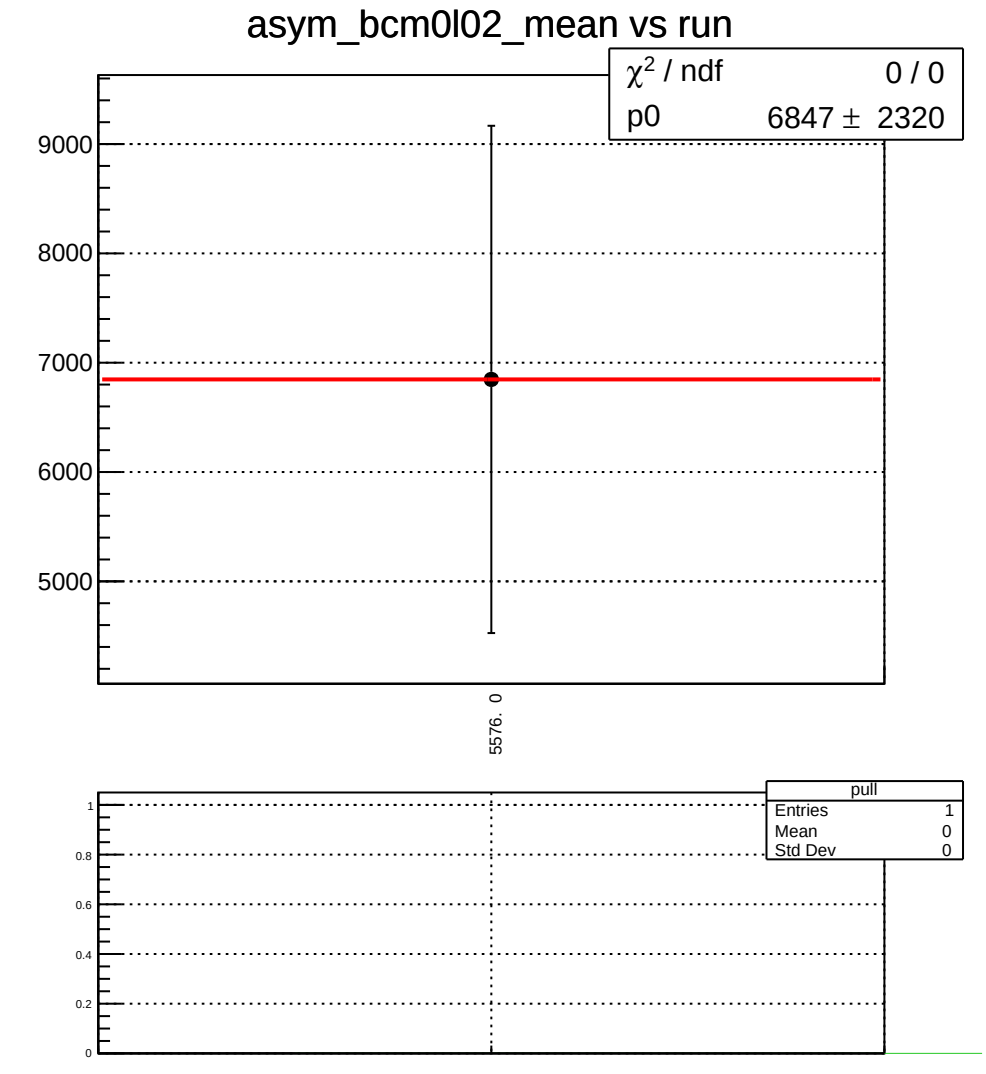

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

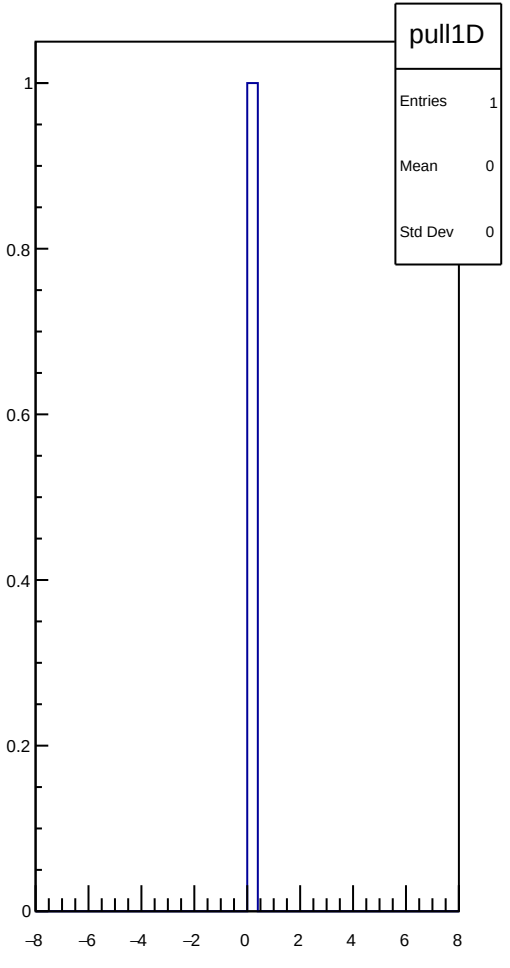

asym_cav4cQ_rms vs run
χ² / ndf 0 / 0
p0 6276 ± 45.47
6320
6300
6280
6260
6240
5576. 0

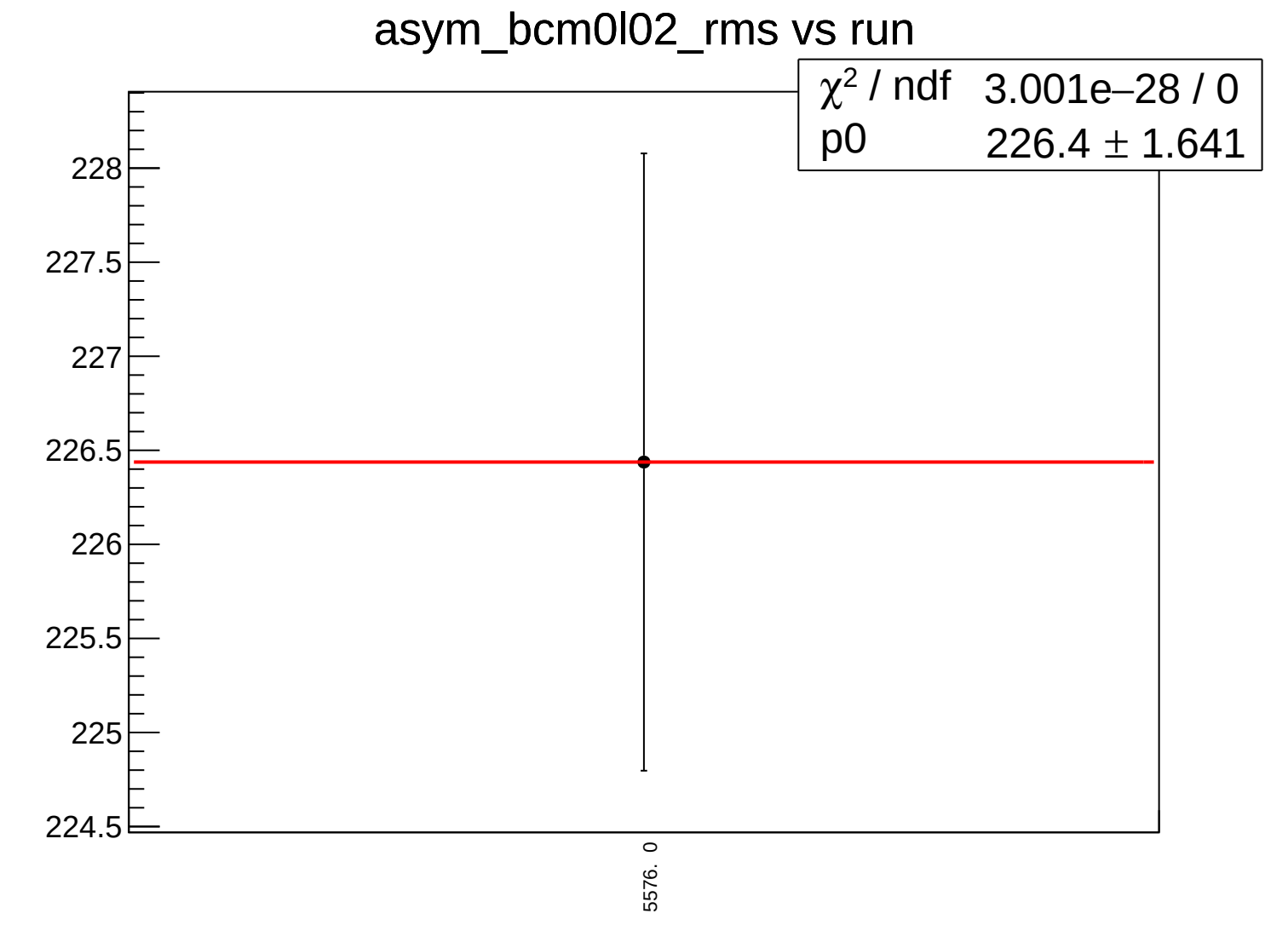

asym_cav4dQ_mean vs run
χ² / ndf 0 / 0
p0 0.001737 ± 14.05
15
10
5
0
−5
−10
−15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

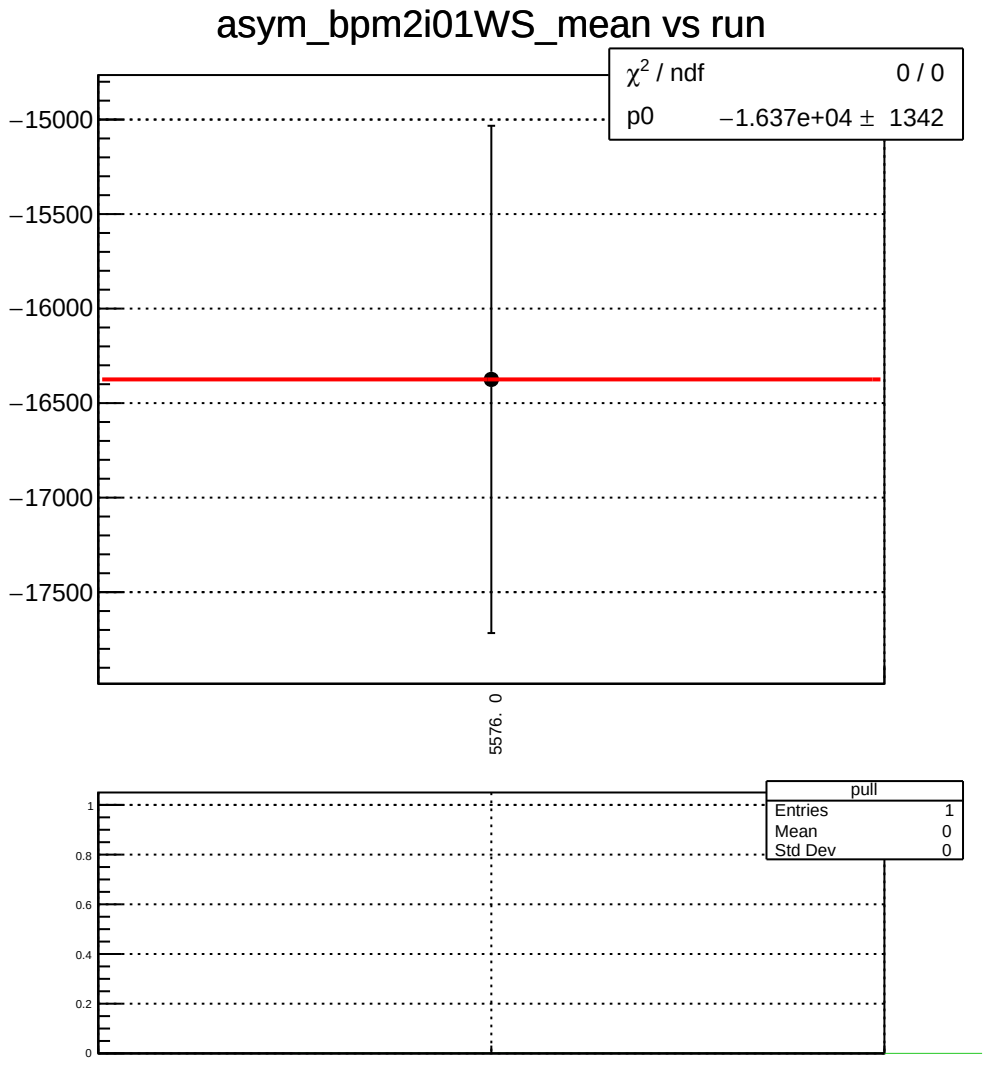

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

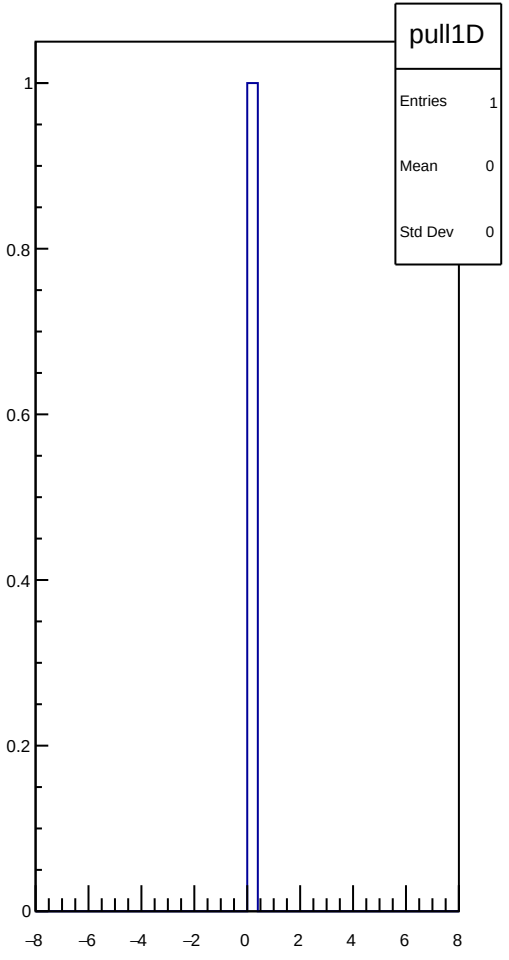

asym_cav4dQ_rms vs run
χ² / ndf 4.997e−28 / 0
p0 1.371 ± 0.009933
1.38
1.375
1.37
1.365
1.36
5576. 0

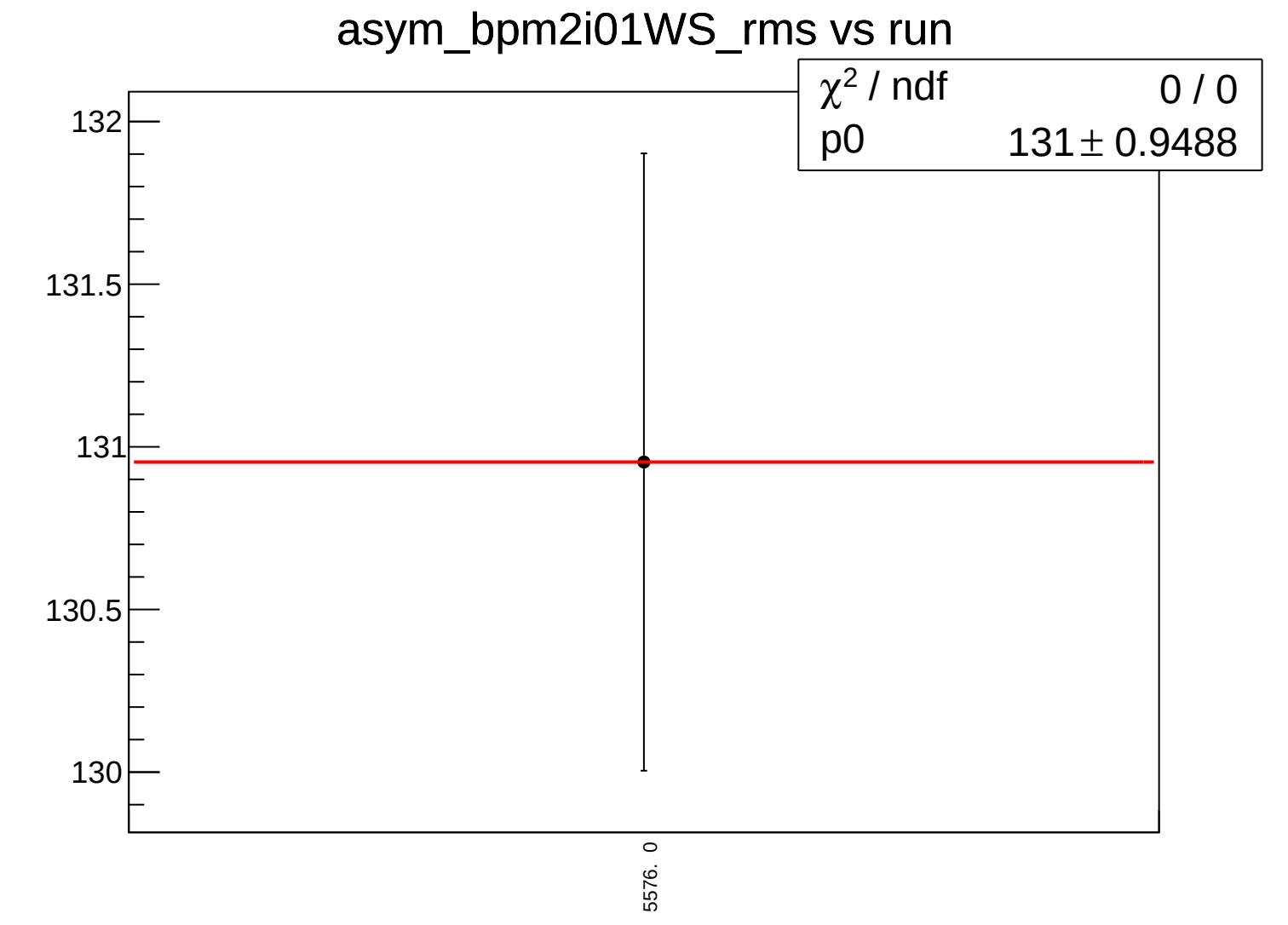

asym_bcm0l02_mean vs run
χ² / ndf 0 / 0
p0 6847 ± 2320
9000
8000
7000
6000
5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

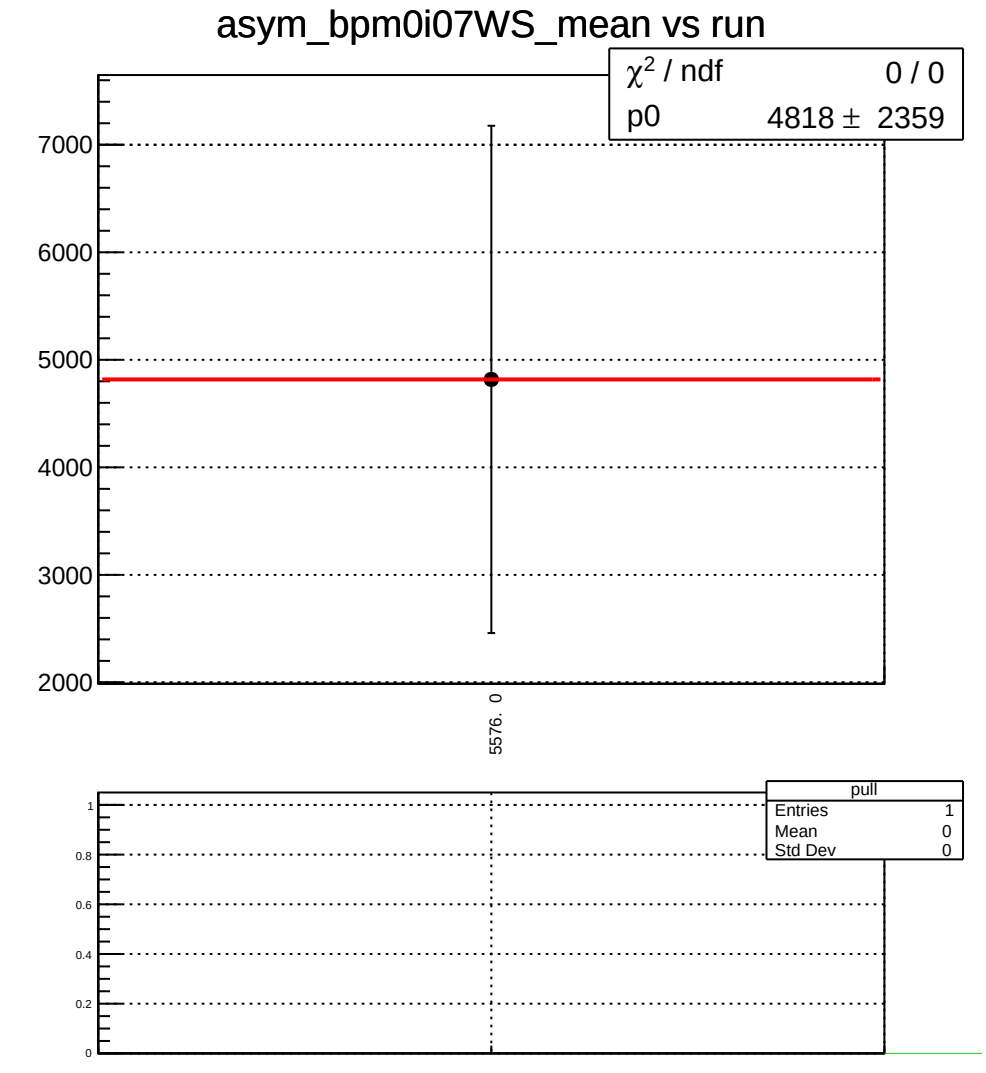

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

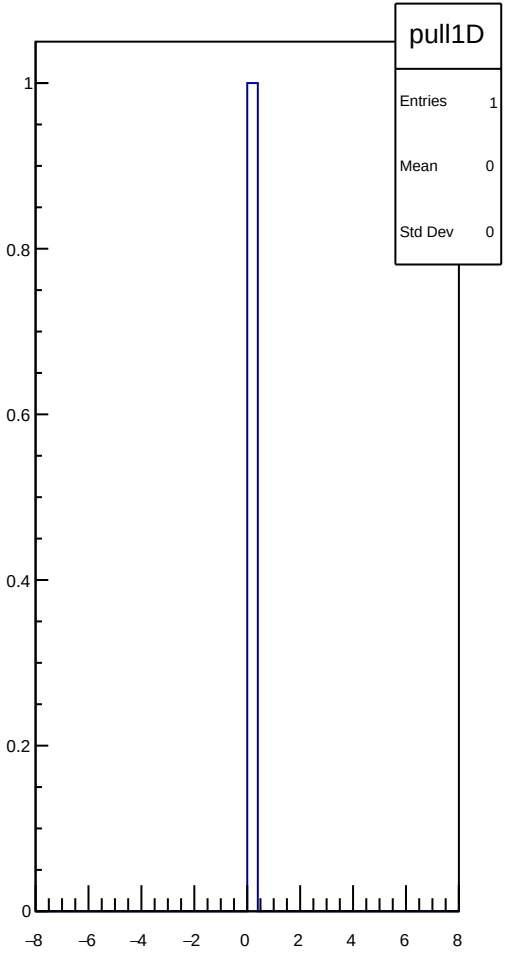

asym_bcm0l02_rms vs run
χ² / ndf 3.001e–28 / 0
p0 226.4 ± 1.641
228
227.5
227
226.5
226
225.5
225
224.5
5576. 0

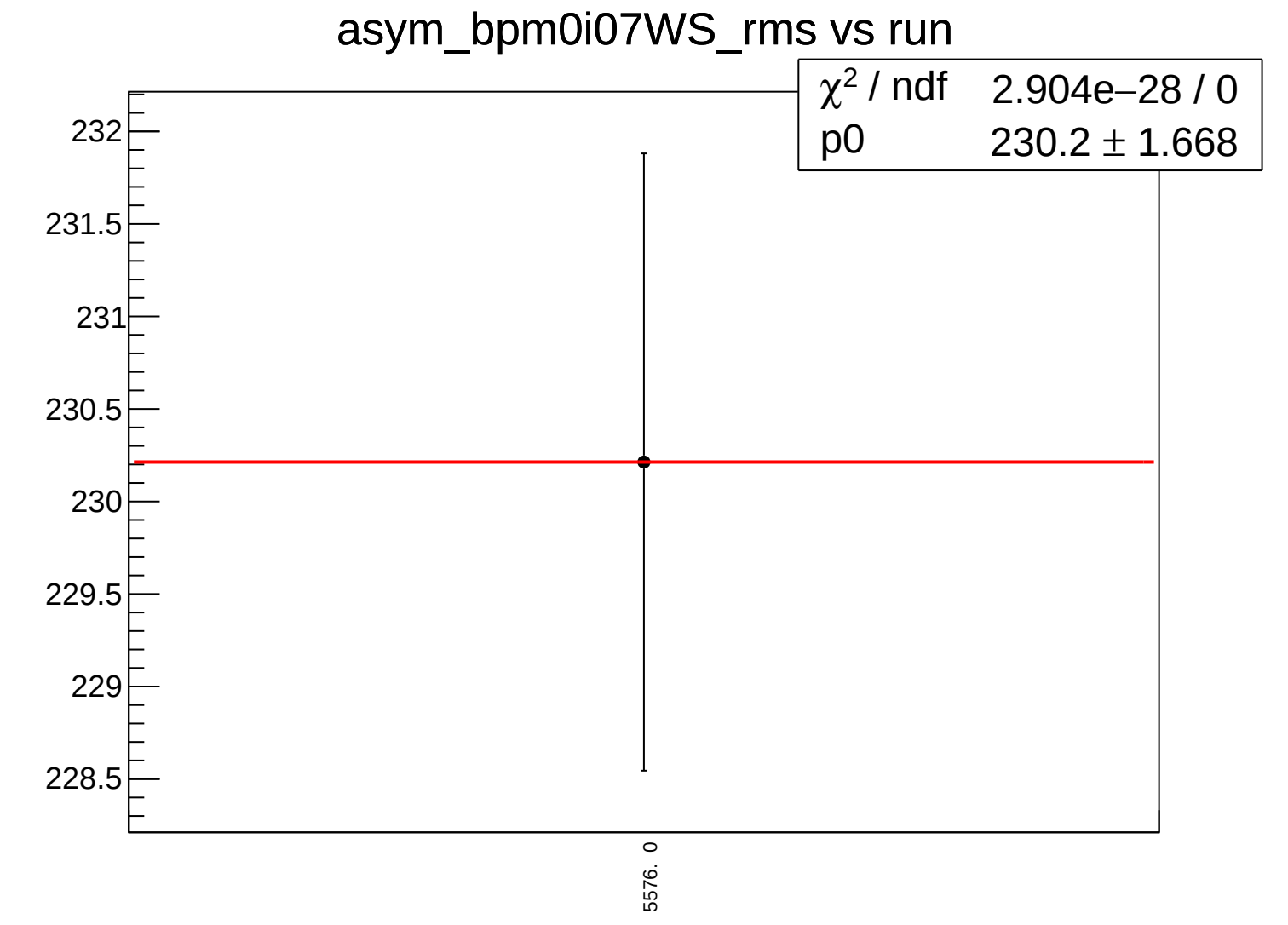

asym_bpm2i01WS_mean vs run
χ² / ndf 0 / 0
p0 −1.637e+04 ± 1342
−15000
−15500
−16000
−16500
−17000
−17500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

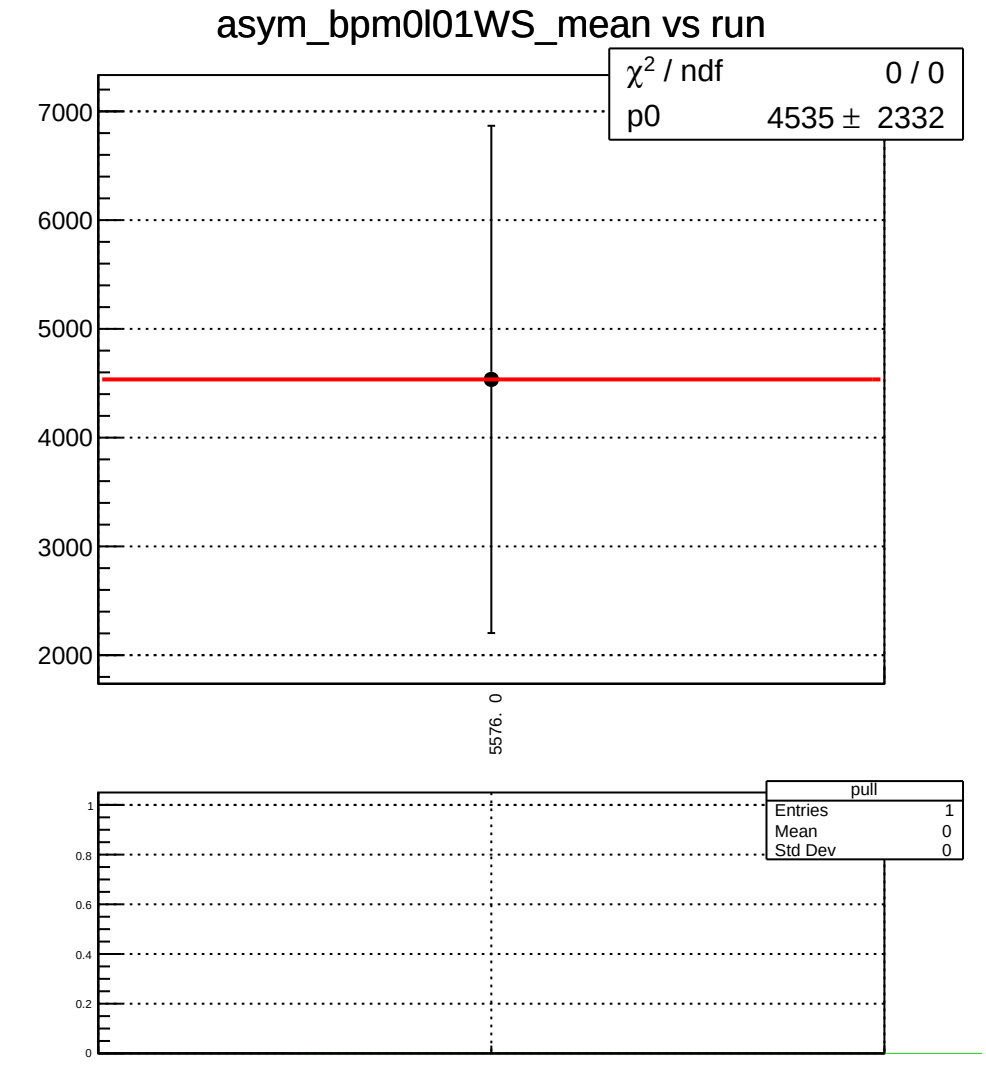

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

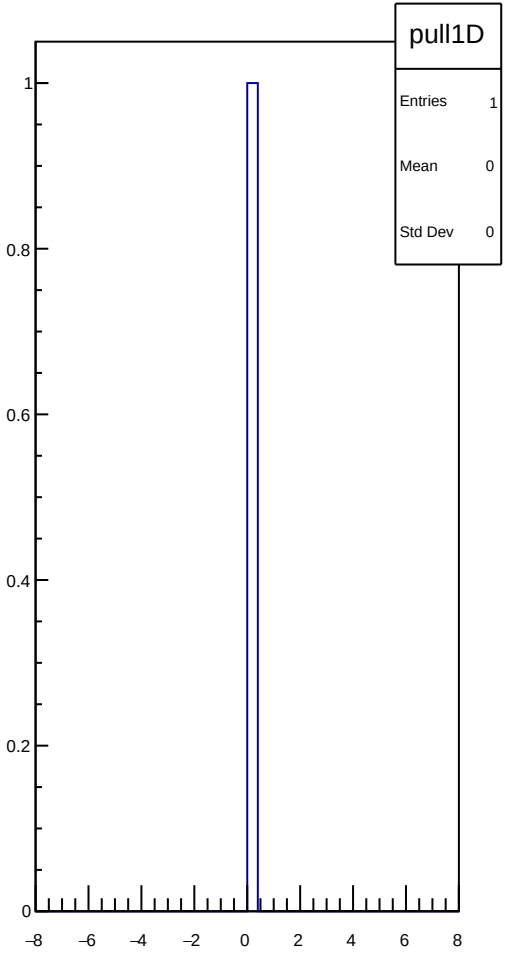

asym_bpm2i01WS_rms vs run
χ² / ndf 0 / 0
p0 131 ± 0.9488
132
131.5
131
130.5
130
5576. 0

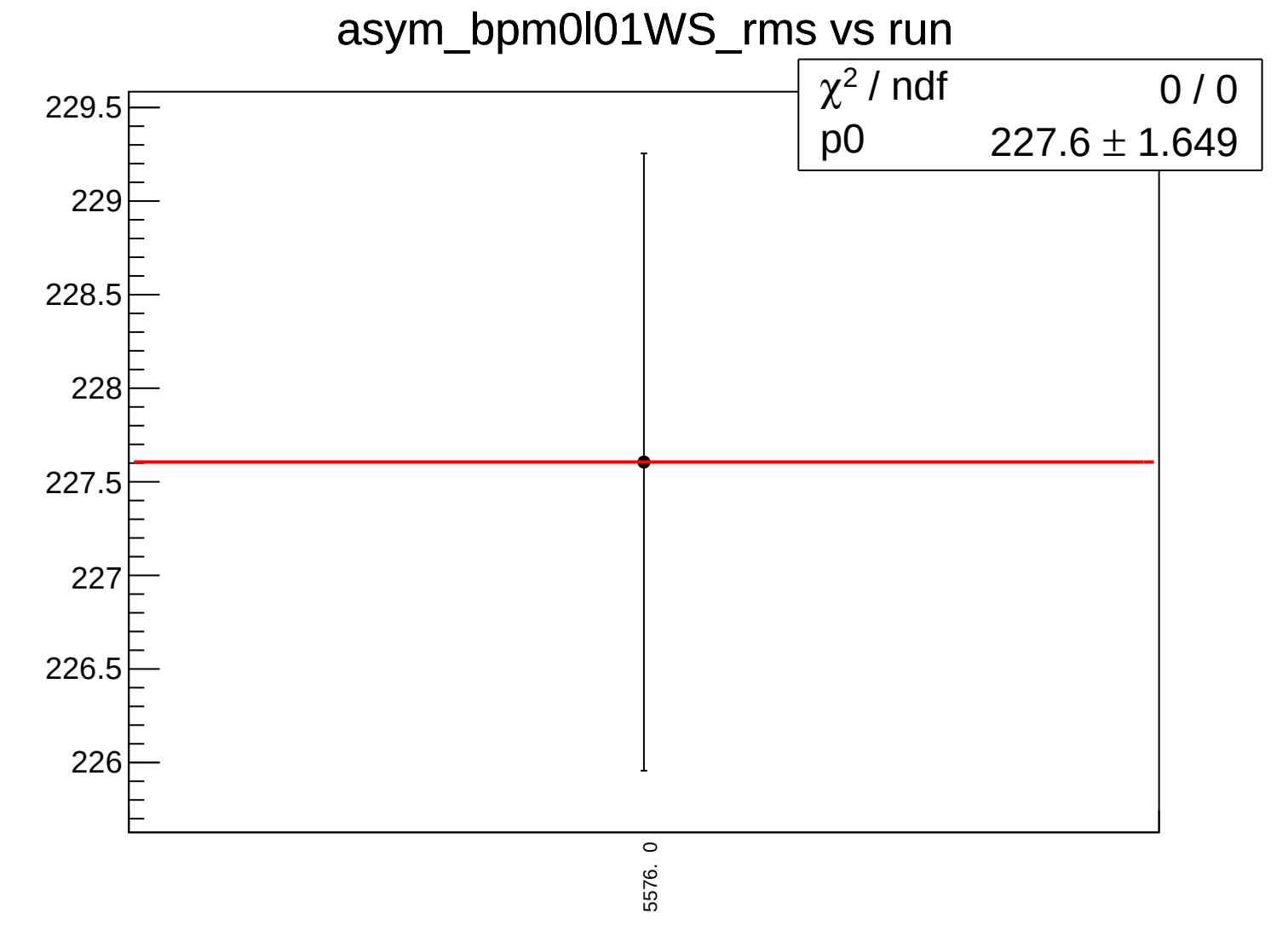

asym_bpm0i07WS_mean vs run
χ² / ndf 0 / 0
p0 4818 ± 2359
7000
6000
5000
4000
3000
2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

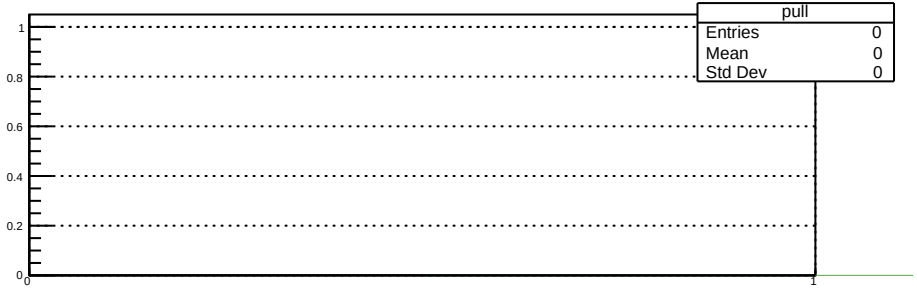

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

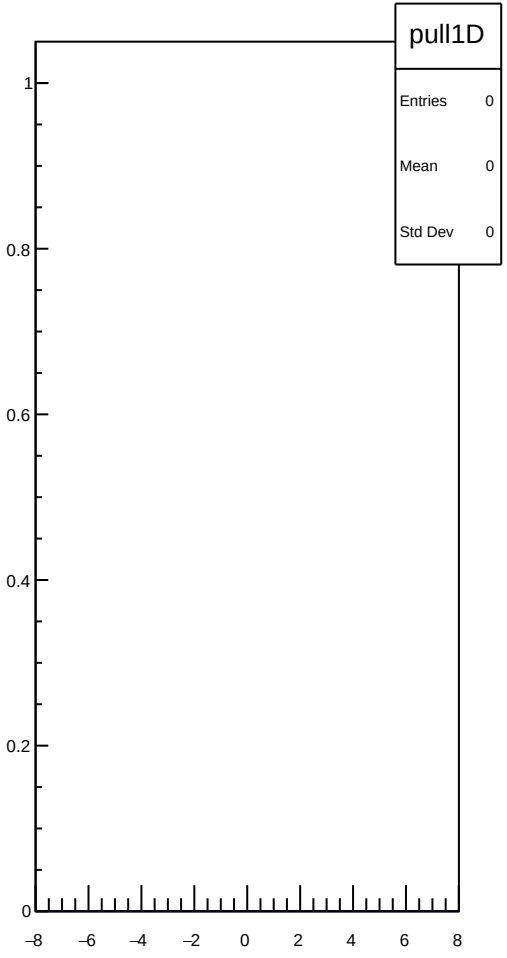

asym_bpm0i07WS_rms vs run
χ² / ndf 2.904e−28 / 0
p0 230.2 ± 1.668
232
231.5
231
230.5
230
229.5
229
228.5
5576. 0

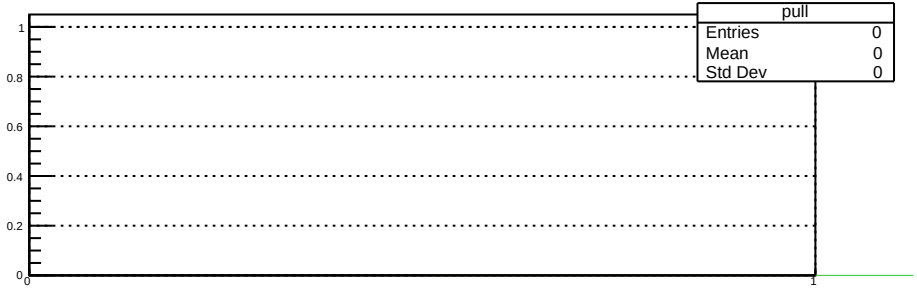

asym_bpm0l01WS_mean vs run
χ² / ndf 0 / 0
p0 4535 ± 2332
7000
6000
5000
4000
3000
2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

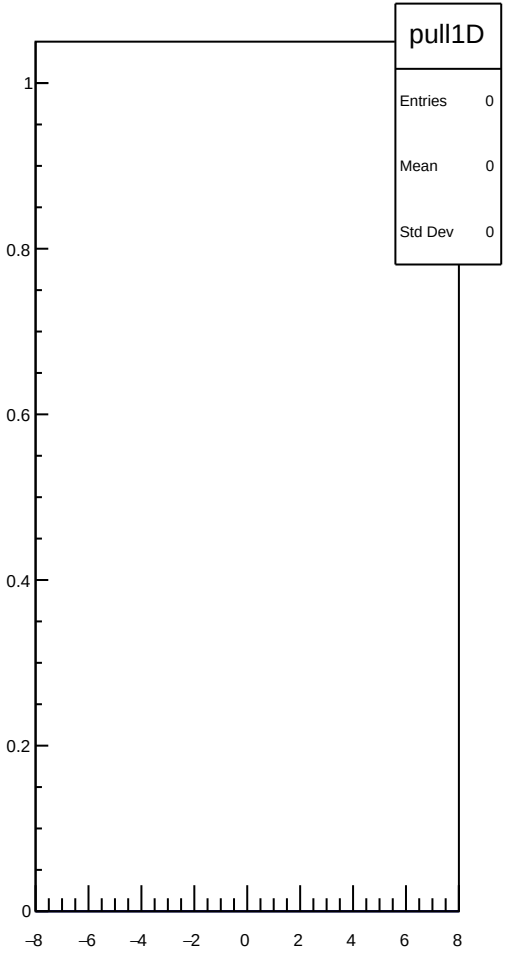

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

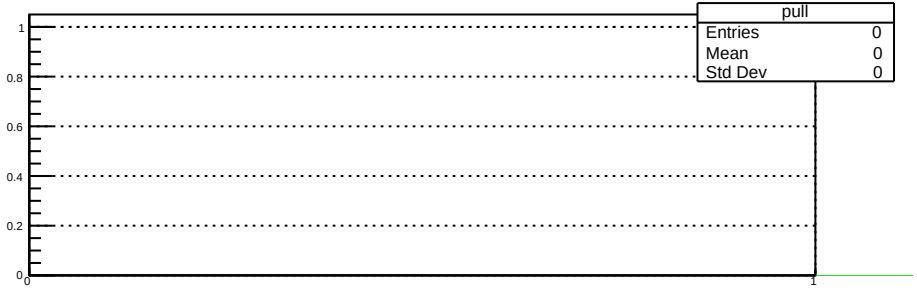

asym_bpm0l01WS_rms vs run
χ² / ndf 0 / 0
p0 227.6 ± 1.649
229.5
229
228.5
228
227.5
227
226.5
226
5576. 0

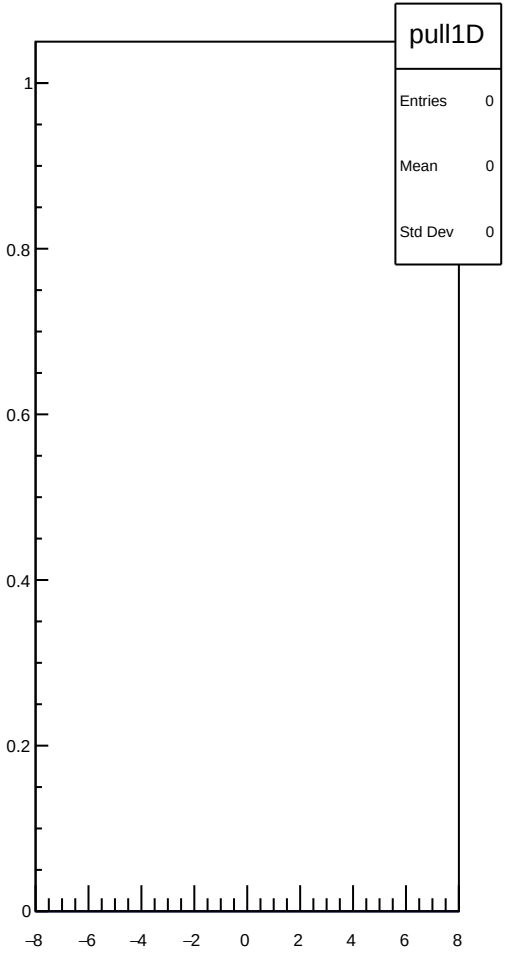

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

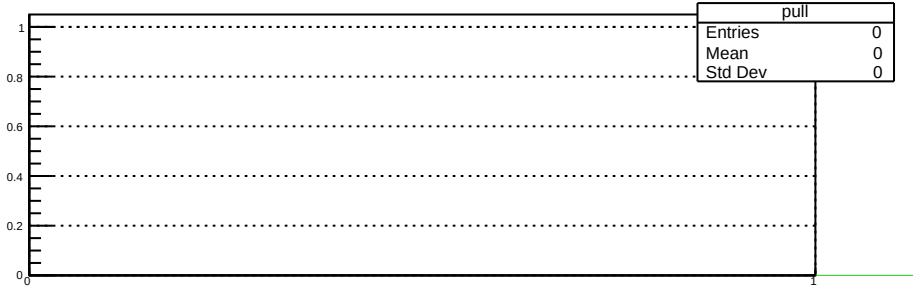

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

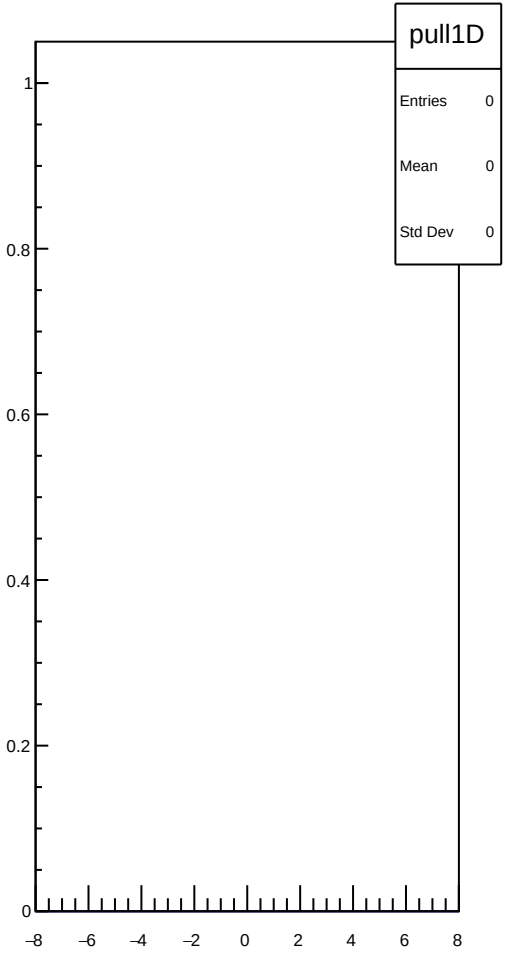

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

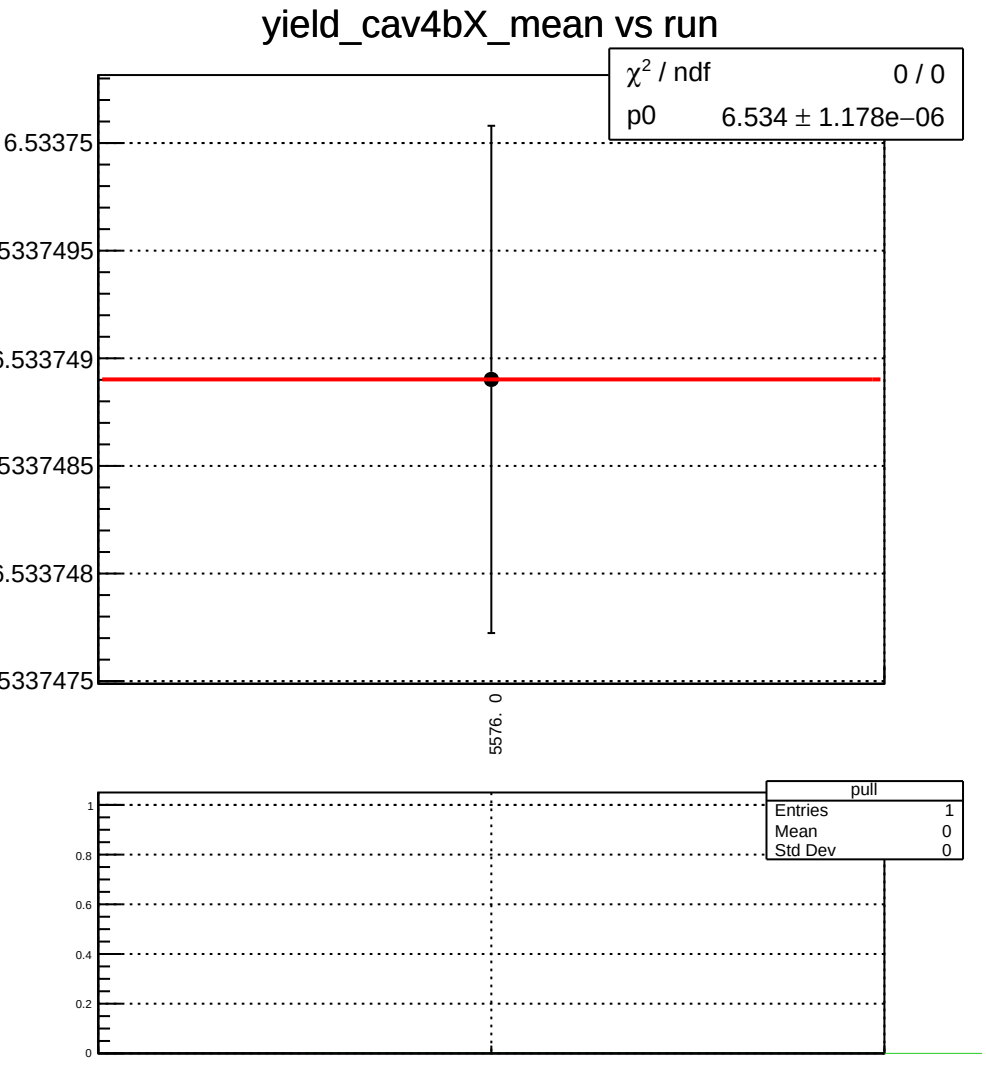

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

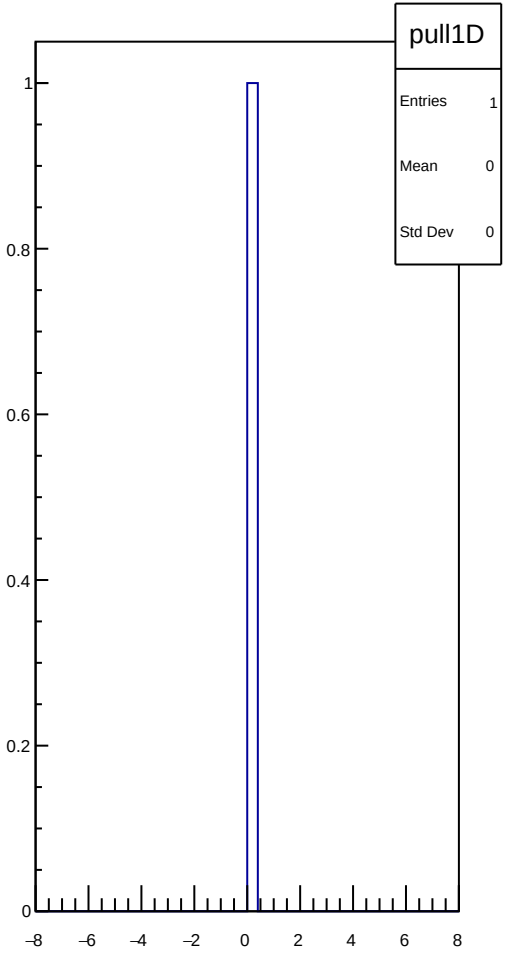

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

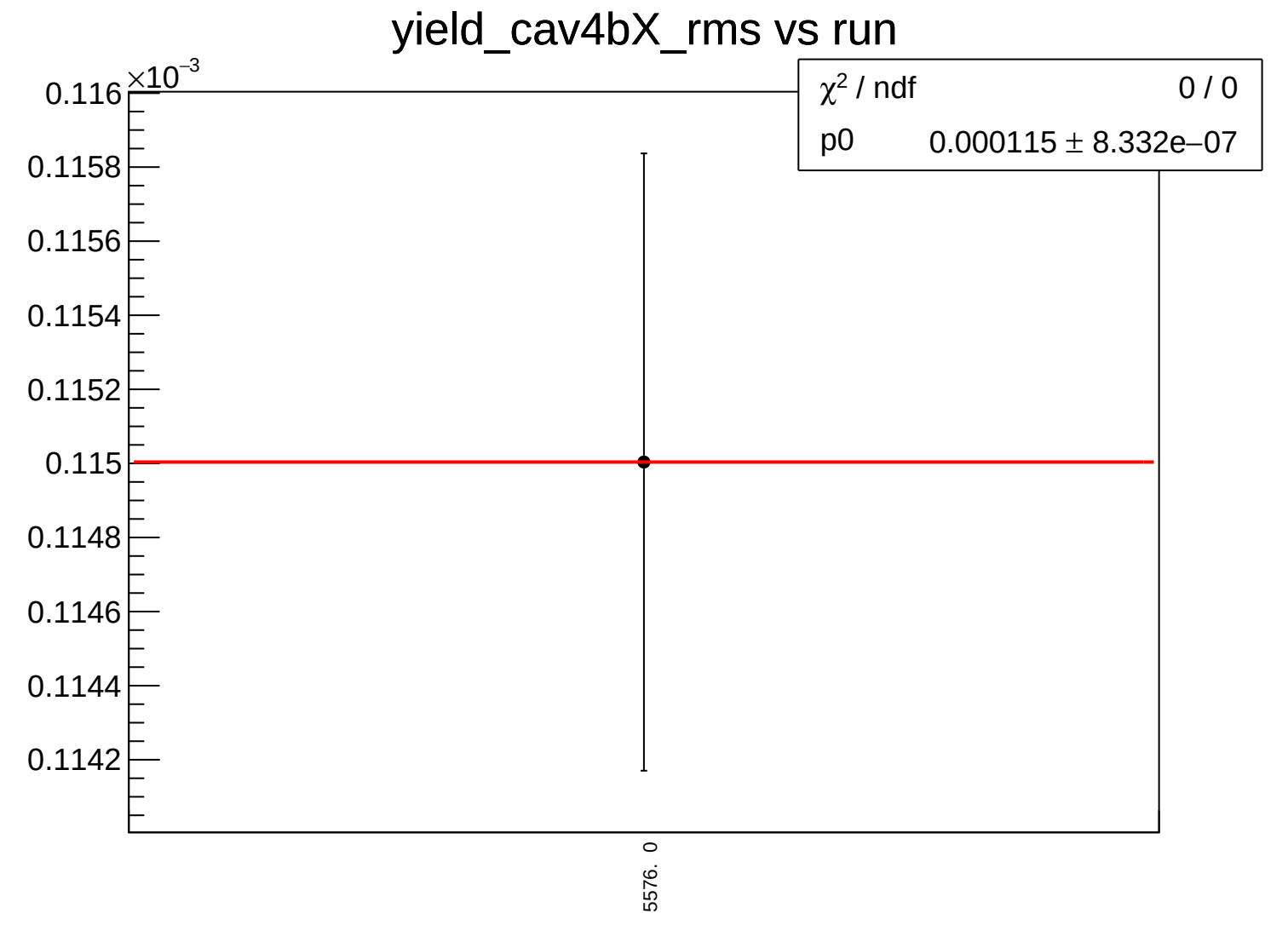

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

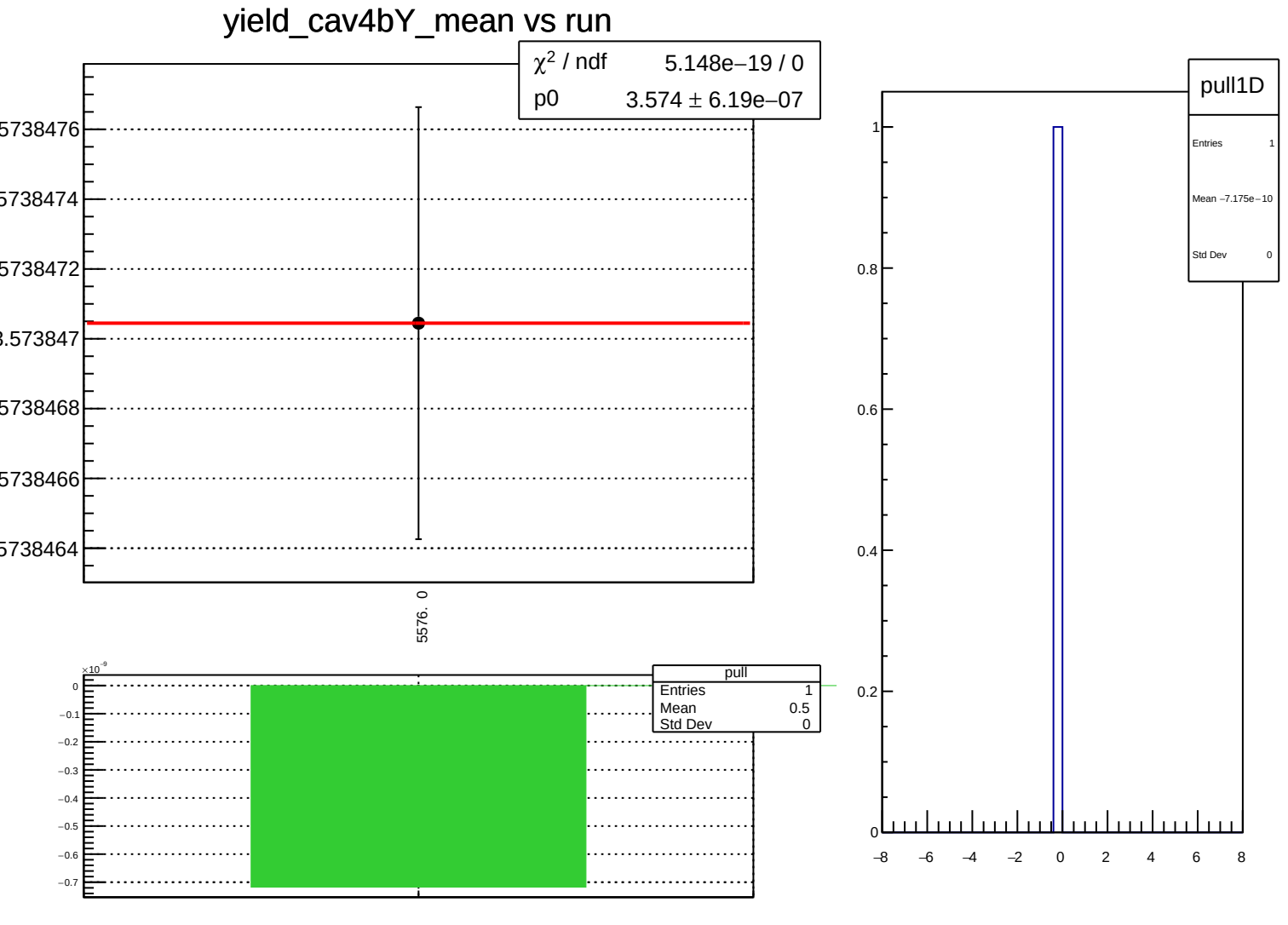

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

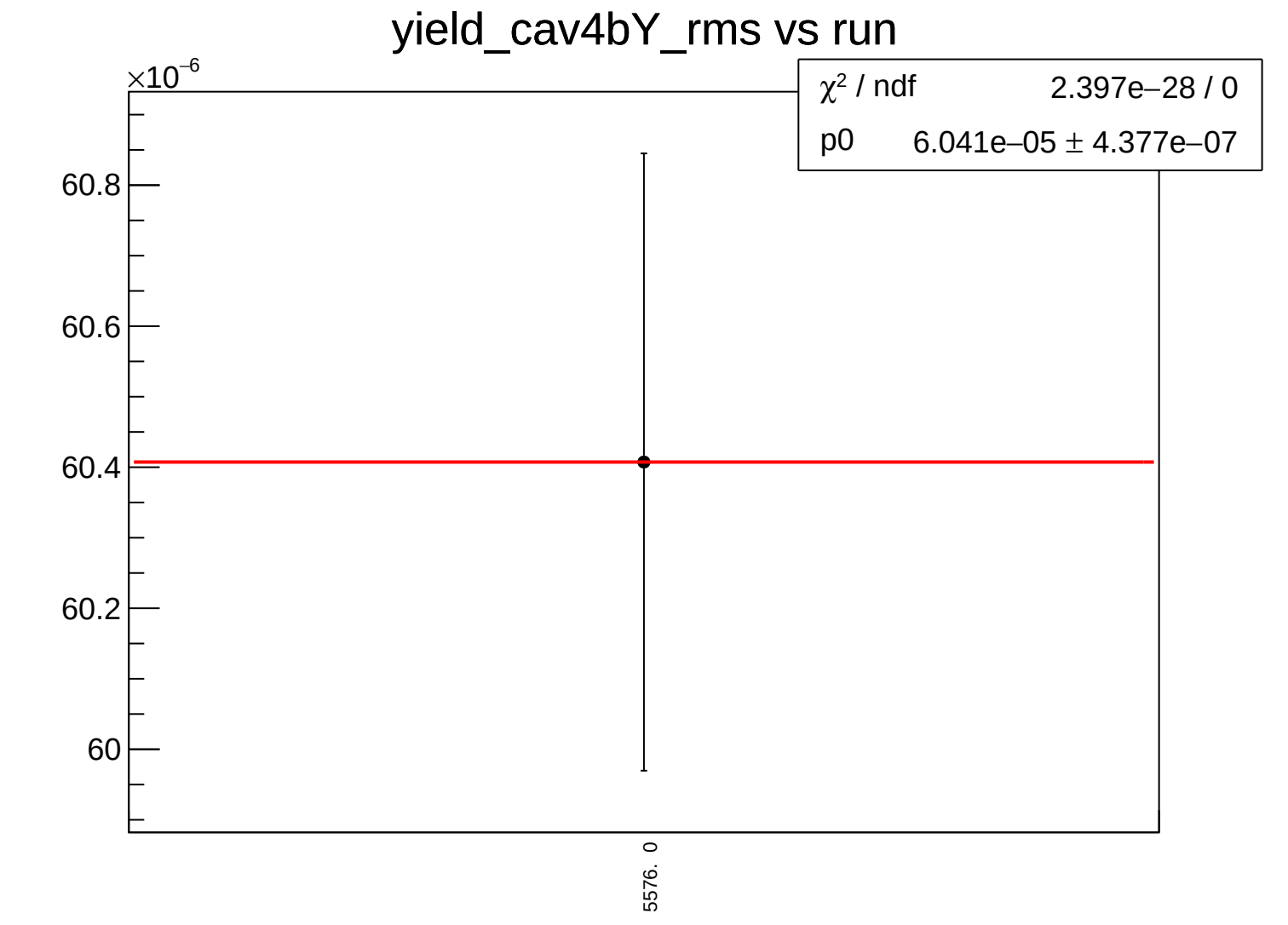

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

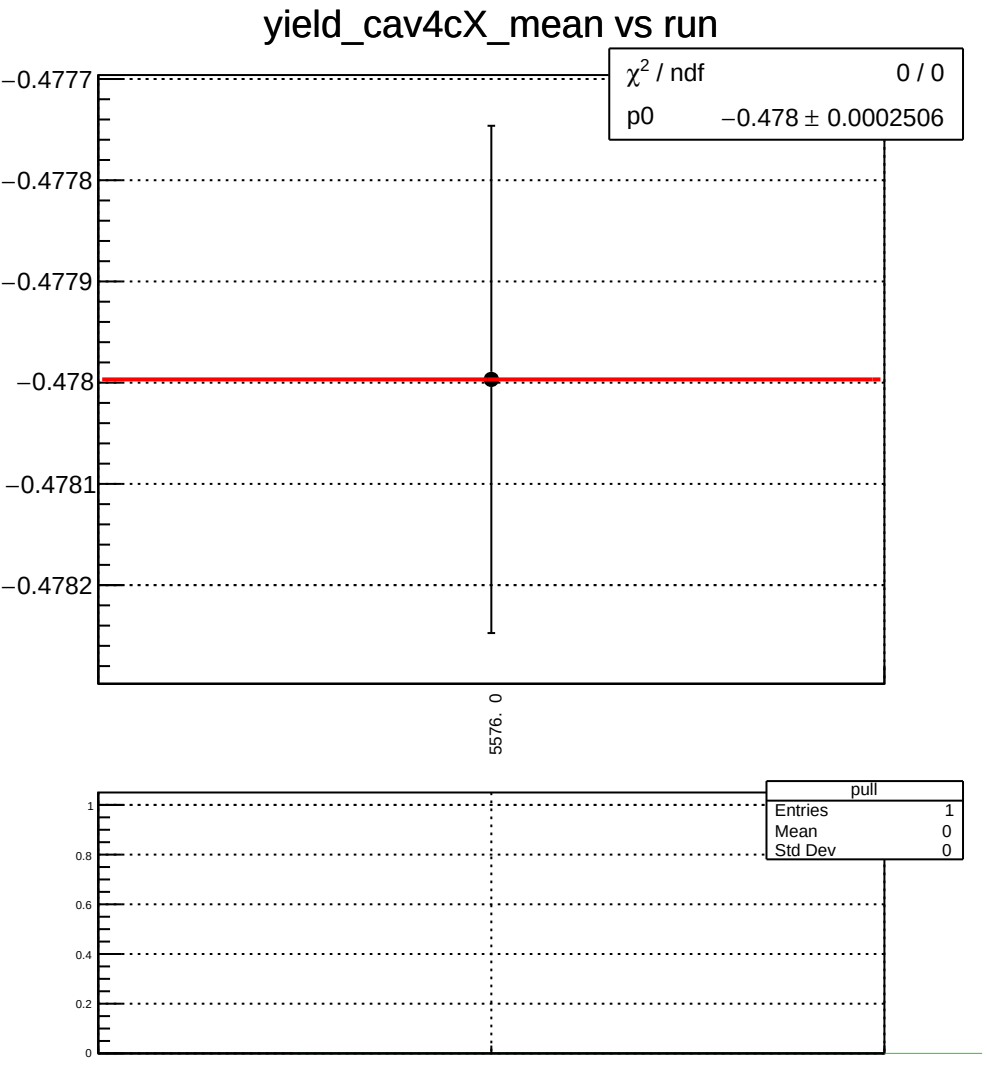

yield_cav4bX_mean vs run
χ² / ndf 0 / 0
p0 6.534 ± 1.178e−06
6.53375
5337495
6.533749
5337485
6.533748
5337475
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

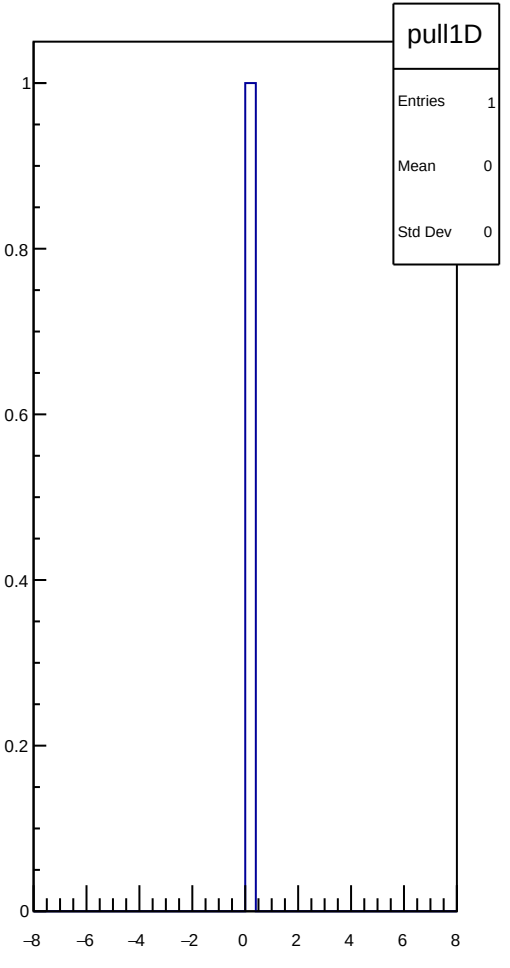

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

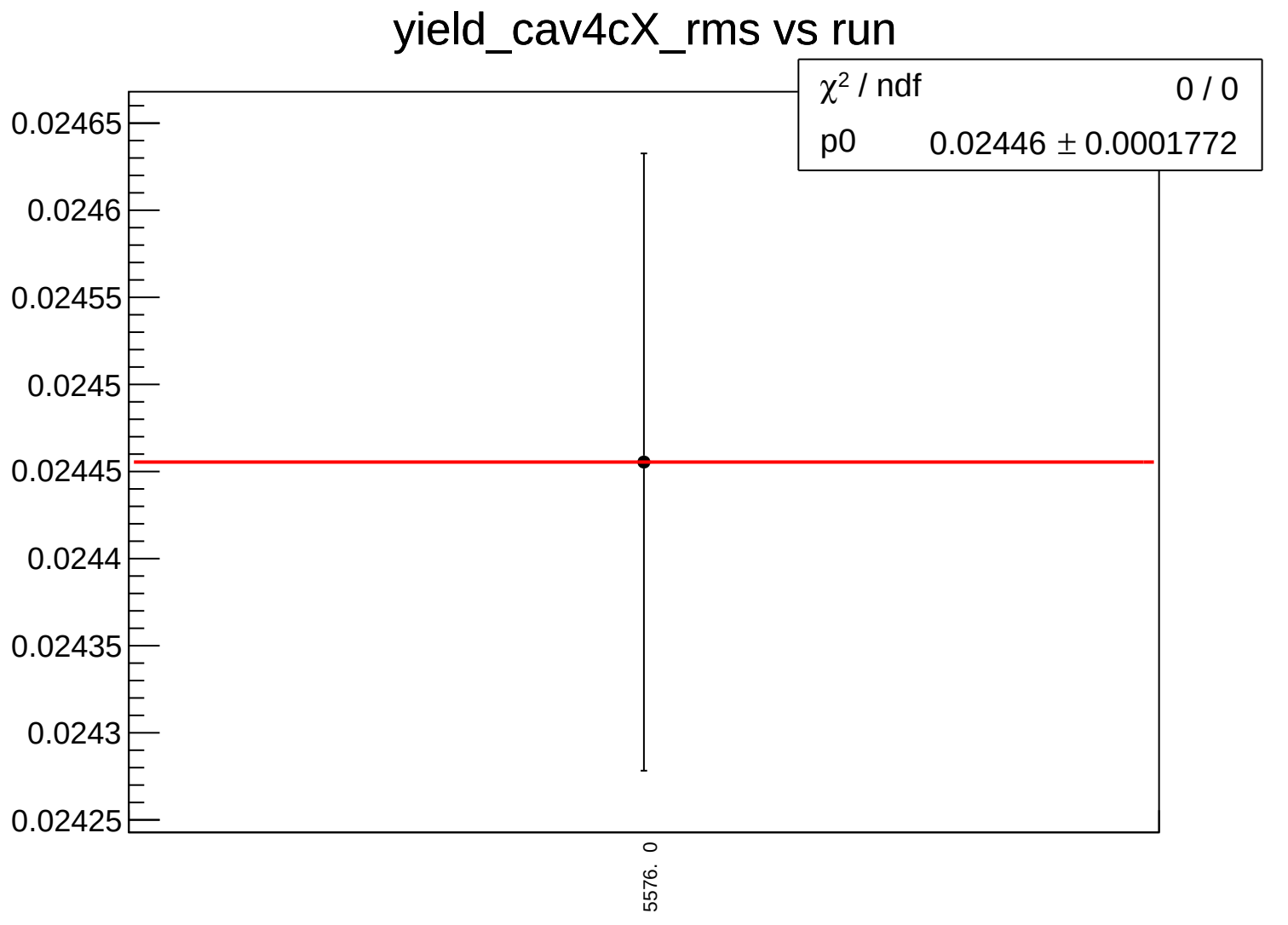

yield_cav4bX_rms vs run
×10⁻³
0.116
0.1158
0.1156
0.1154
0.1152
0.115
0.1148
0.1146
0.1144
0.1142
χ² / ndf 0 / 0
p0 0.000115 ± 8.332e−07
5576. 0

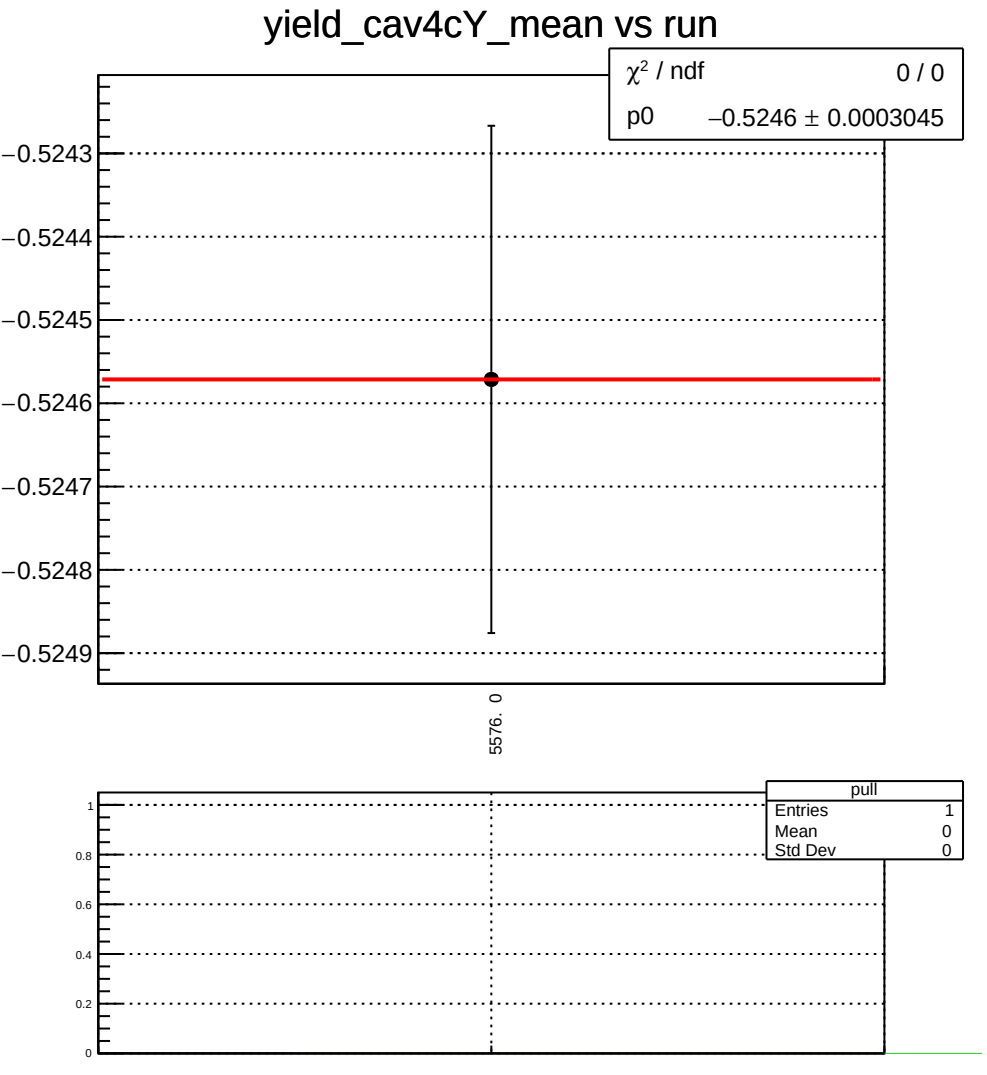

yield_cav4bY_mean vs run
χ² / ndf 5.148e−19 / 0
p0 3.574 ± 6.19e−07
5738476
5738474
5738472
3.573847
5738468
5738466
5738464
5576. 0
×10⁻⁹
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −7.175e−10
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

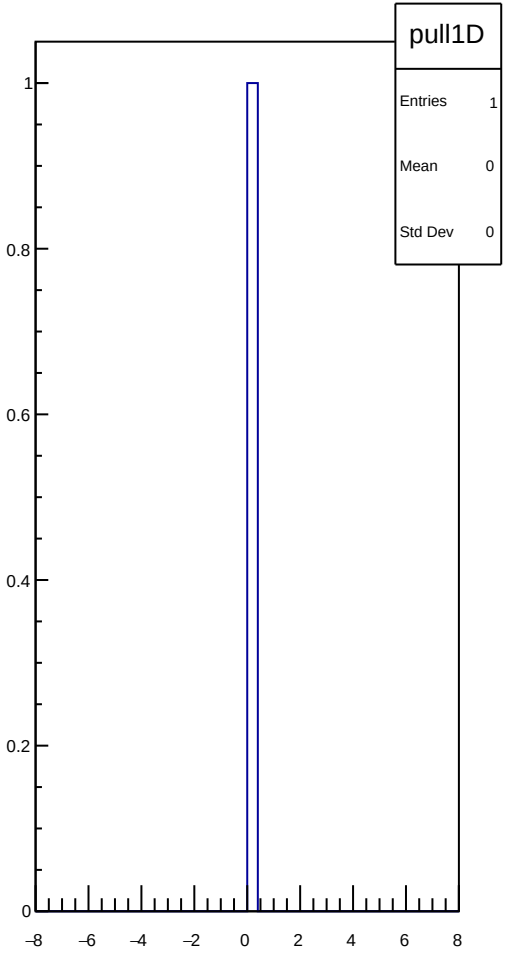

yield_cav4bY_rms vs run
×10⁻⁶
60.8
60.6
60.4
60.2
60
χ² / ndf 2.397e−28 / 0
p0 6.041e−05 ± 4.377e−07
5576. 0


yield_cav4cX_mean vs run
χ² / ndf 0 / 0
p0 −0.478 ± 0.0002506
−0.4777
−0.4778
−0.4779
−0.478
−0.4781
−0.4782
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_cav4cX_rms vs run
χ² / ndf 0 / 0
p0 0.02446 ± 0.0001772
0.02465
0.0246
0.02455
0.0245
0.02445
0.0244
0.02435
0.0243
0.02425
5576. 0


yield_cav4cY_mean vs run
χ² / ndf 0 / 0
p0 −0.5246 ± 0.0003045
−0.5243
−0.5244
−0.5245
−0.5246
−0.5247
−0.5248
−0.5249
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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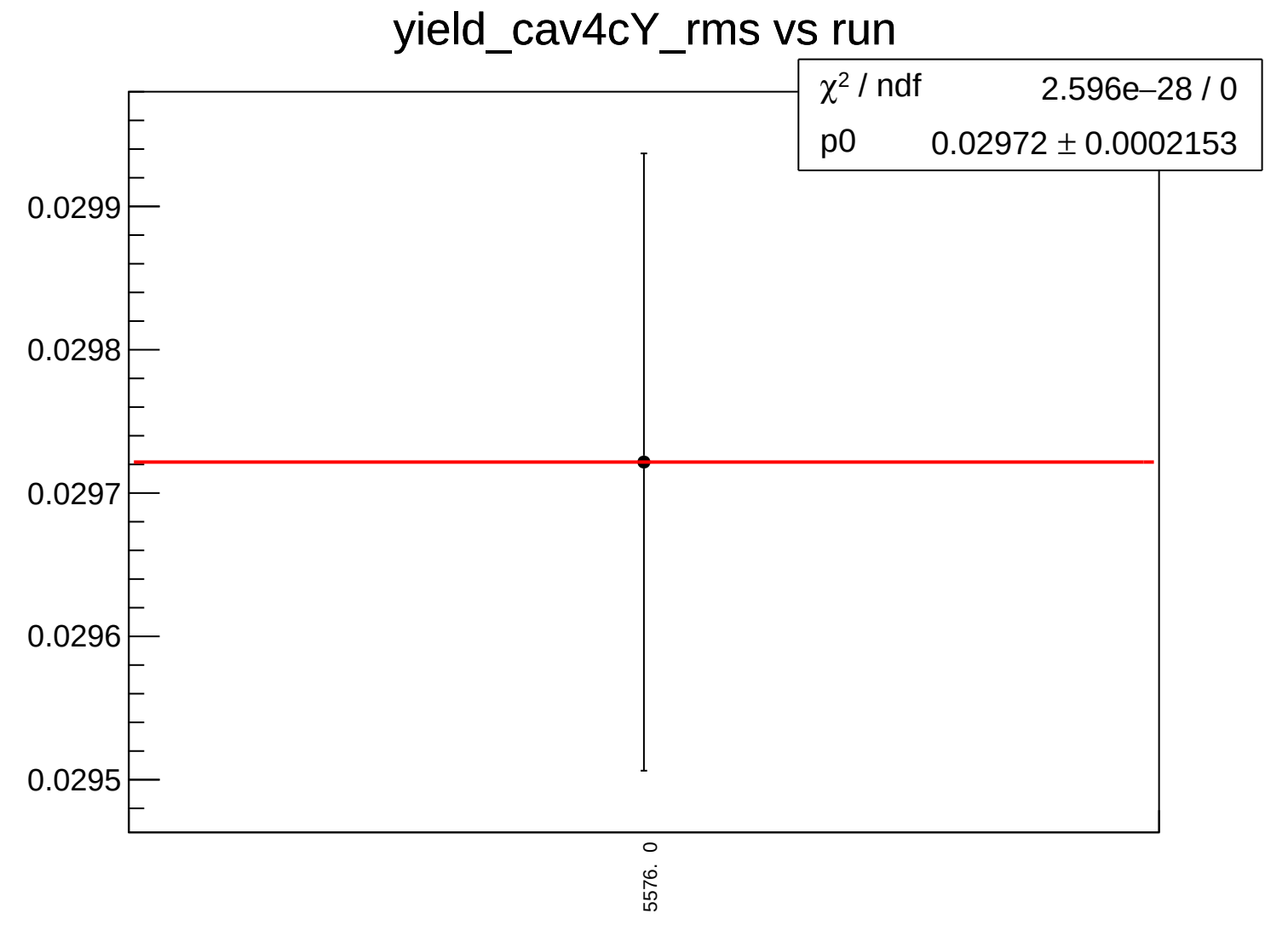
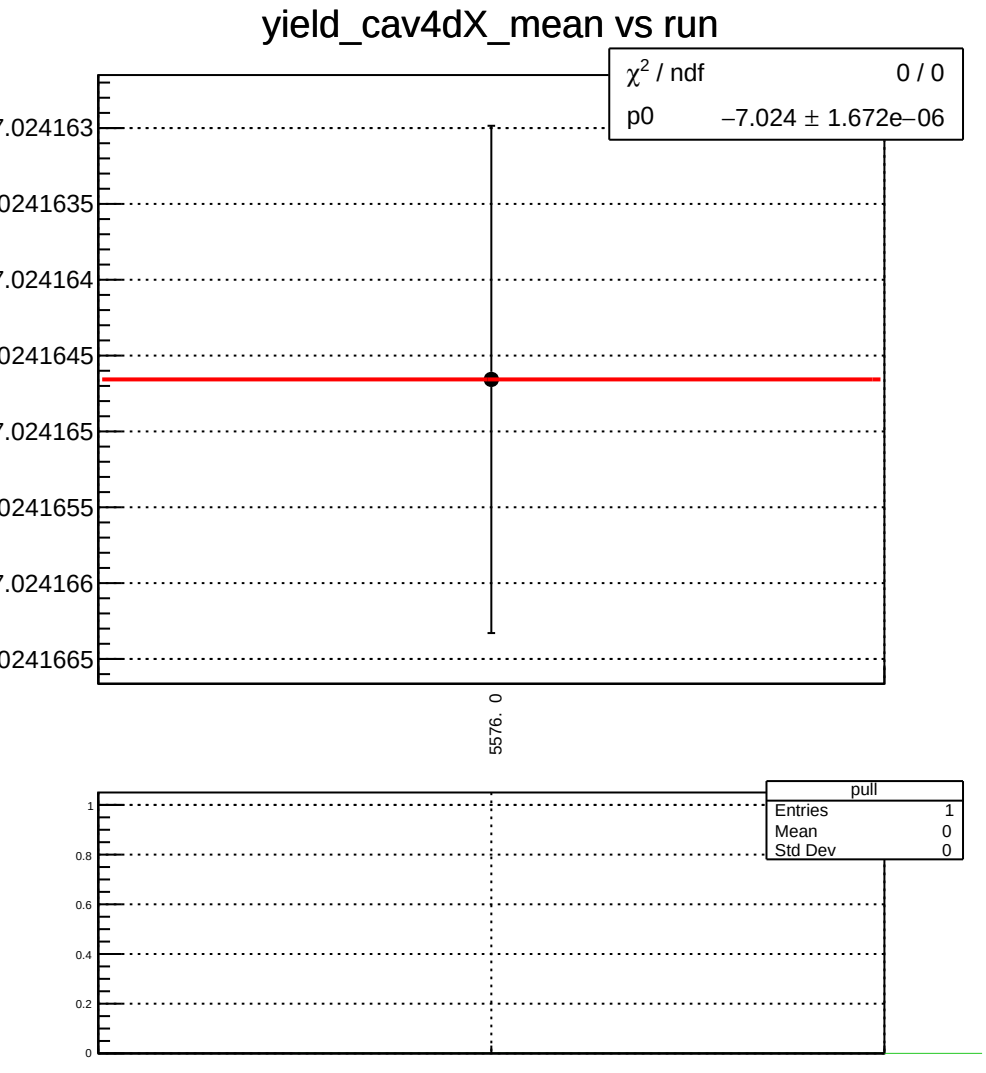
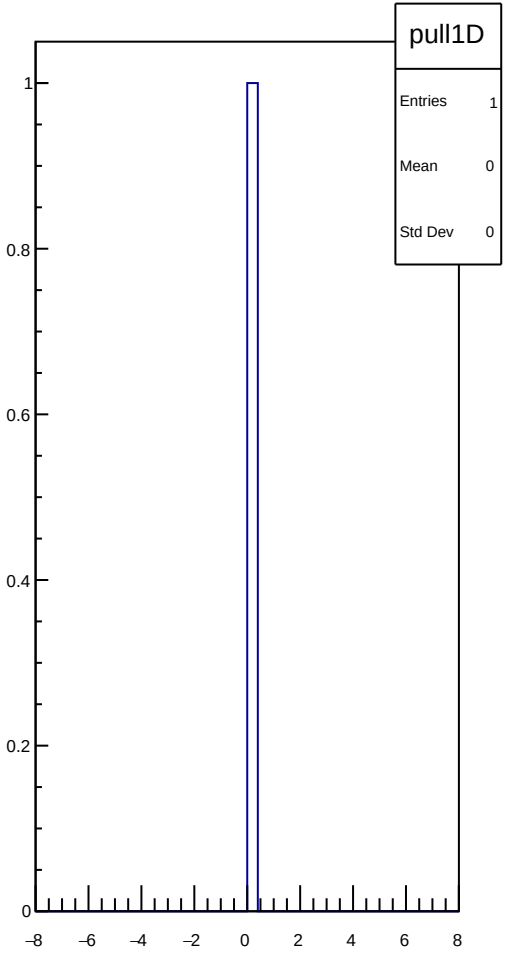
0
2
4
6
8


yield_cav4cY_rms vs run
χ² / ndf 2.596e−28 / 0
p0 0.02972 ± 0.0002153
0.0299
0.0298
0.0297
0.0296
0.0295
5576. 0


yield_cav4dX_mean vs run
χ² / ndf 0 / 0
p0 −7.024 ± 1.672e−06
7.024163
0241635
7.024164
0241645
7.024165
0241655
7.024166
0241665
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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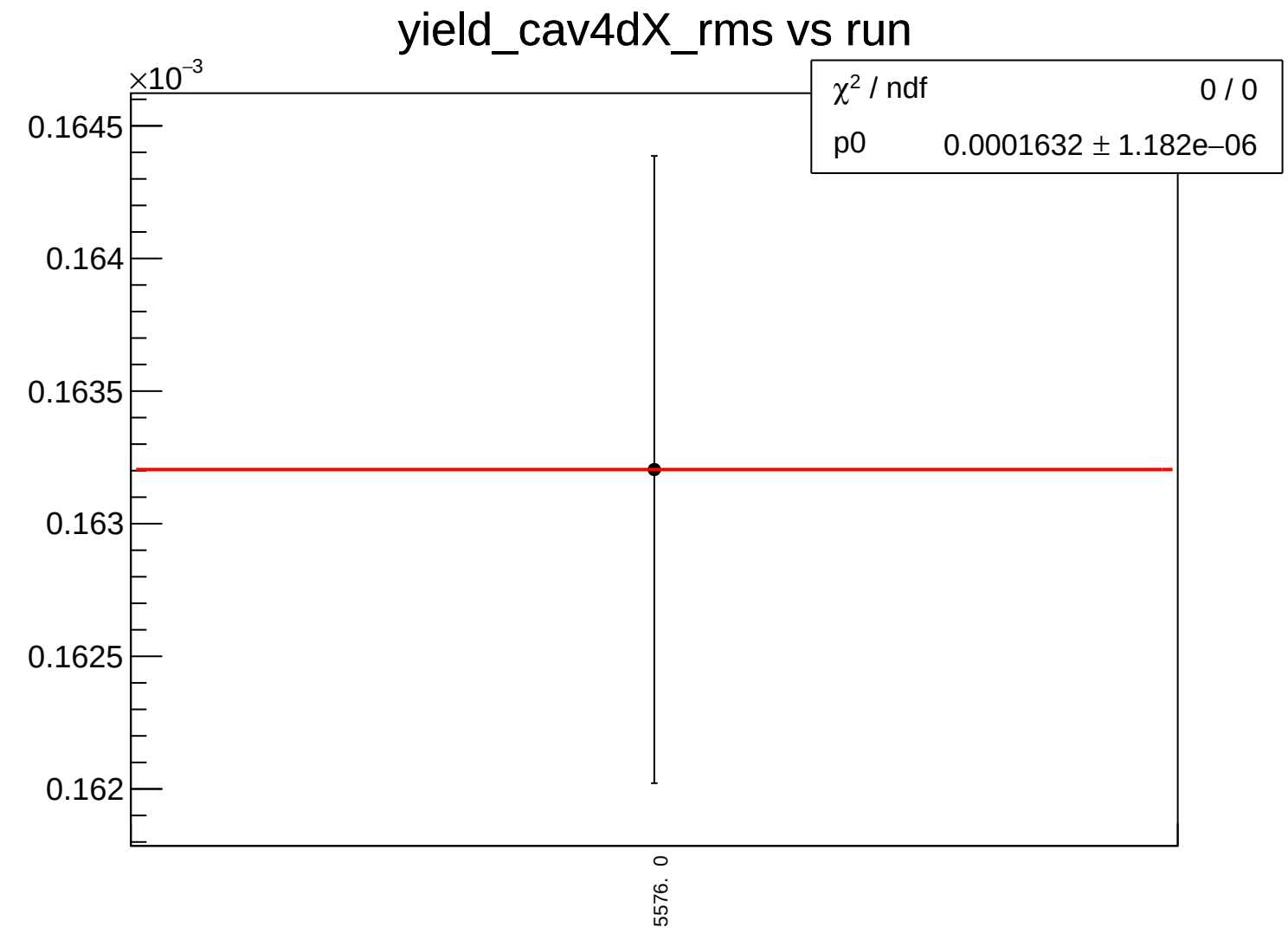
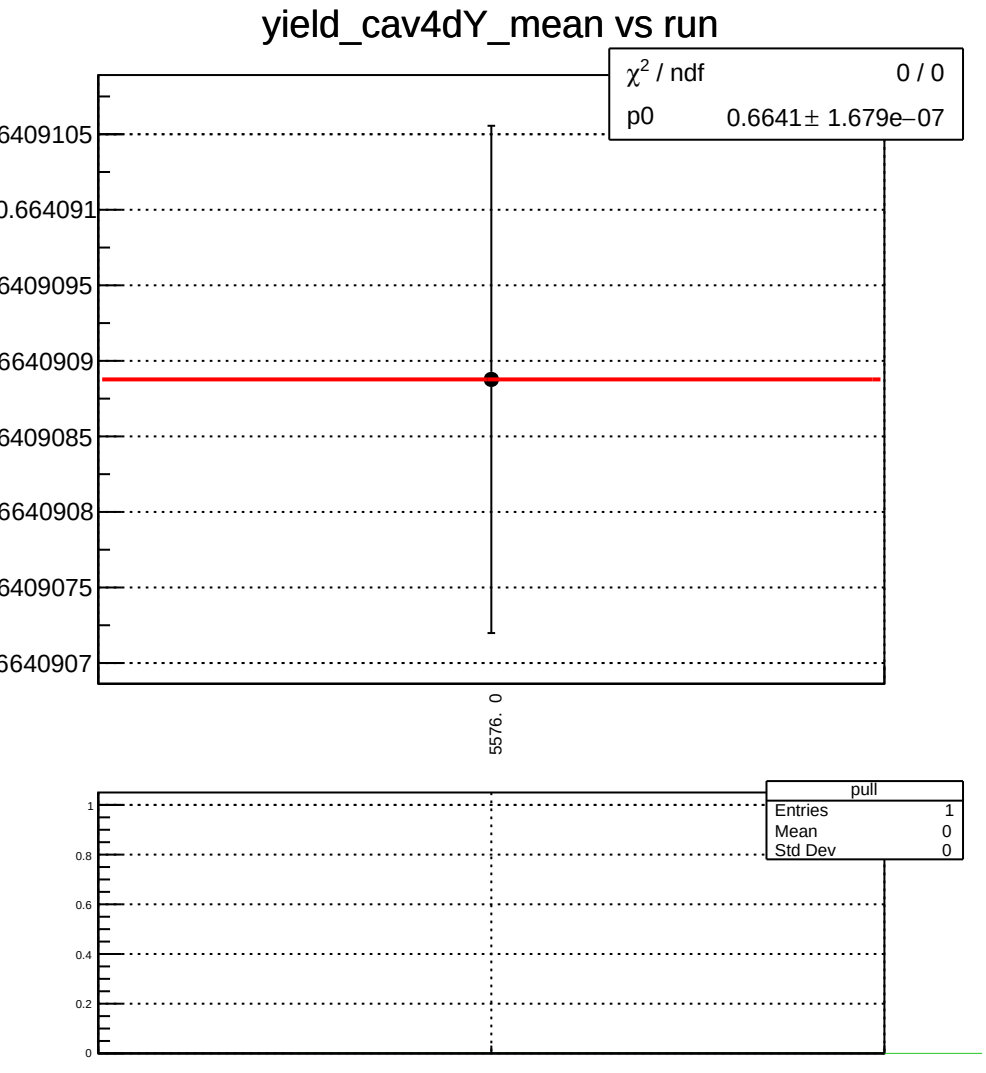
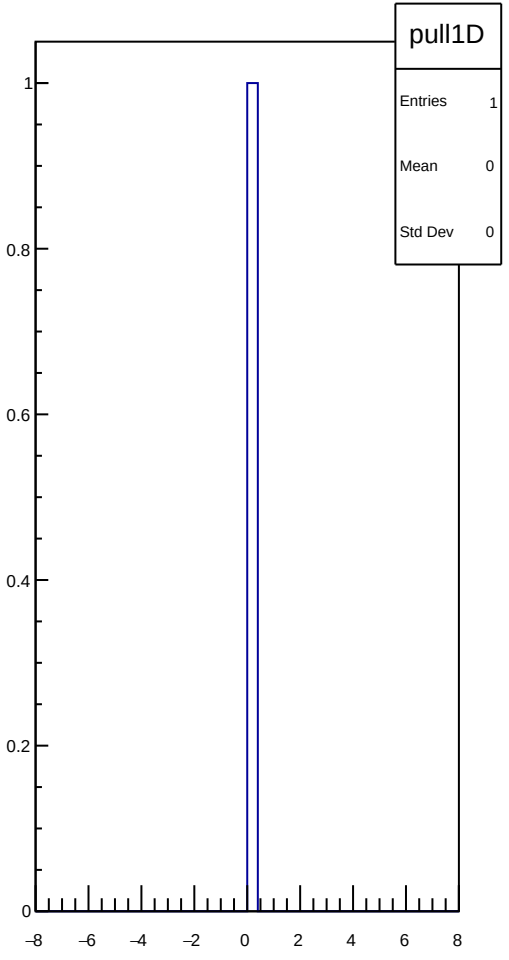
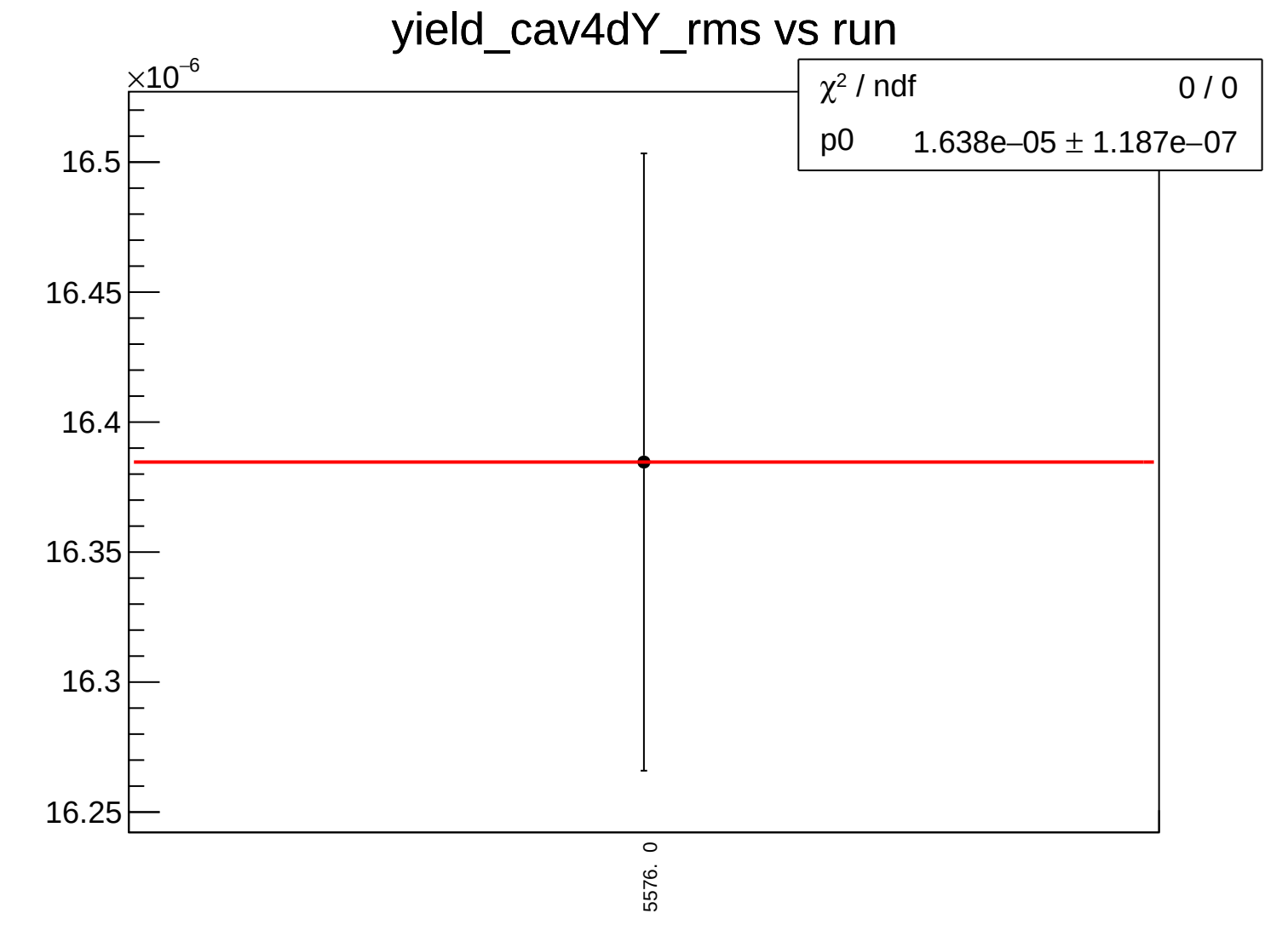
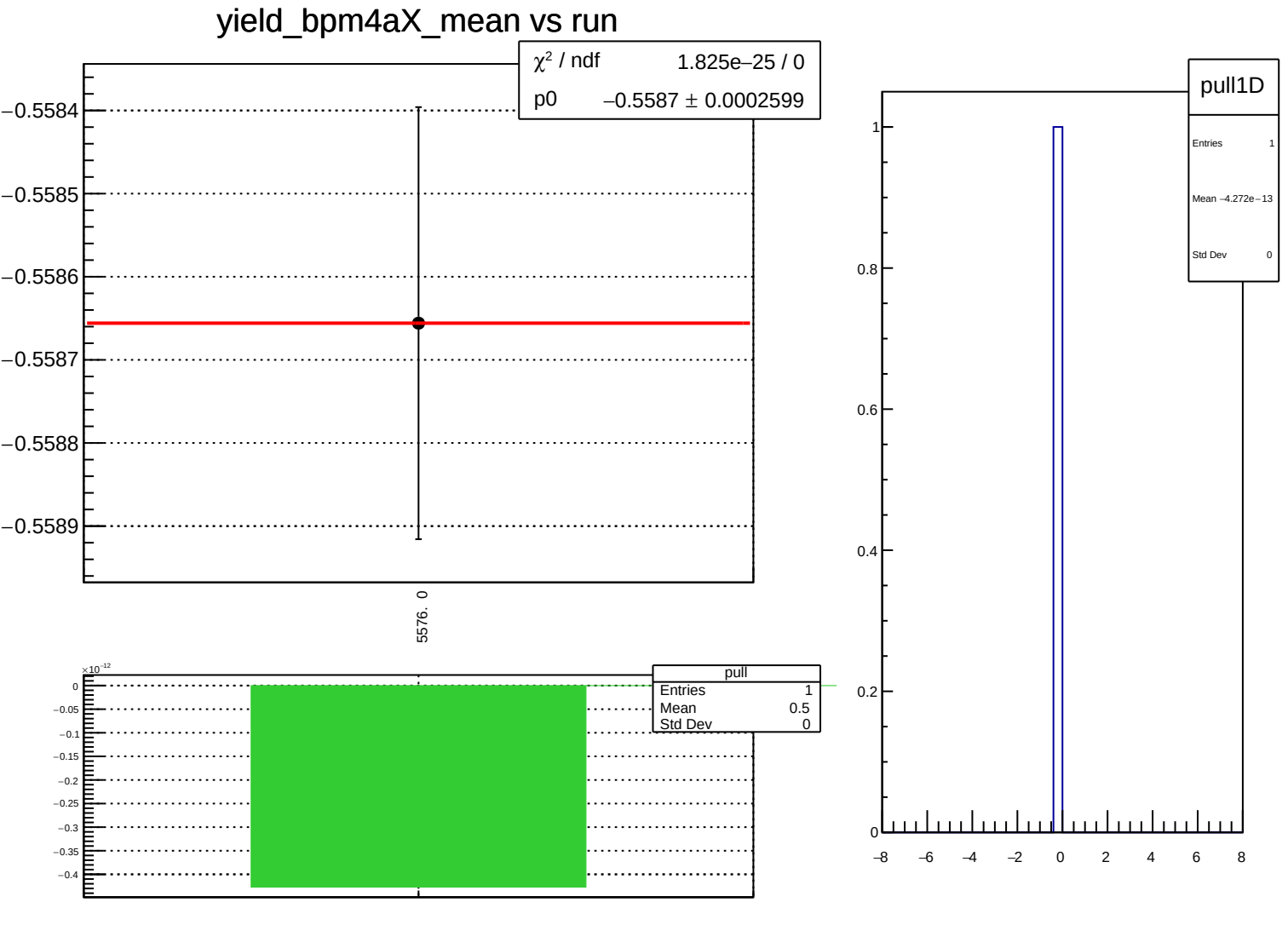
0
2
4
6
8

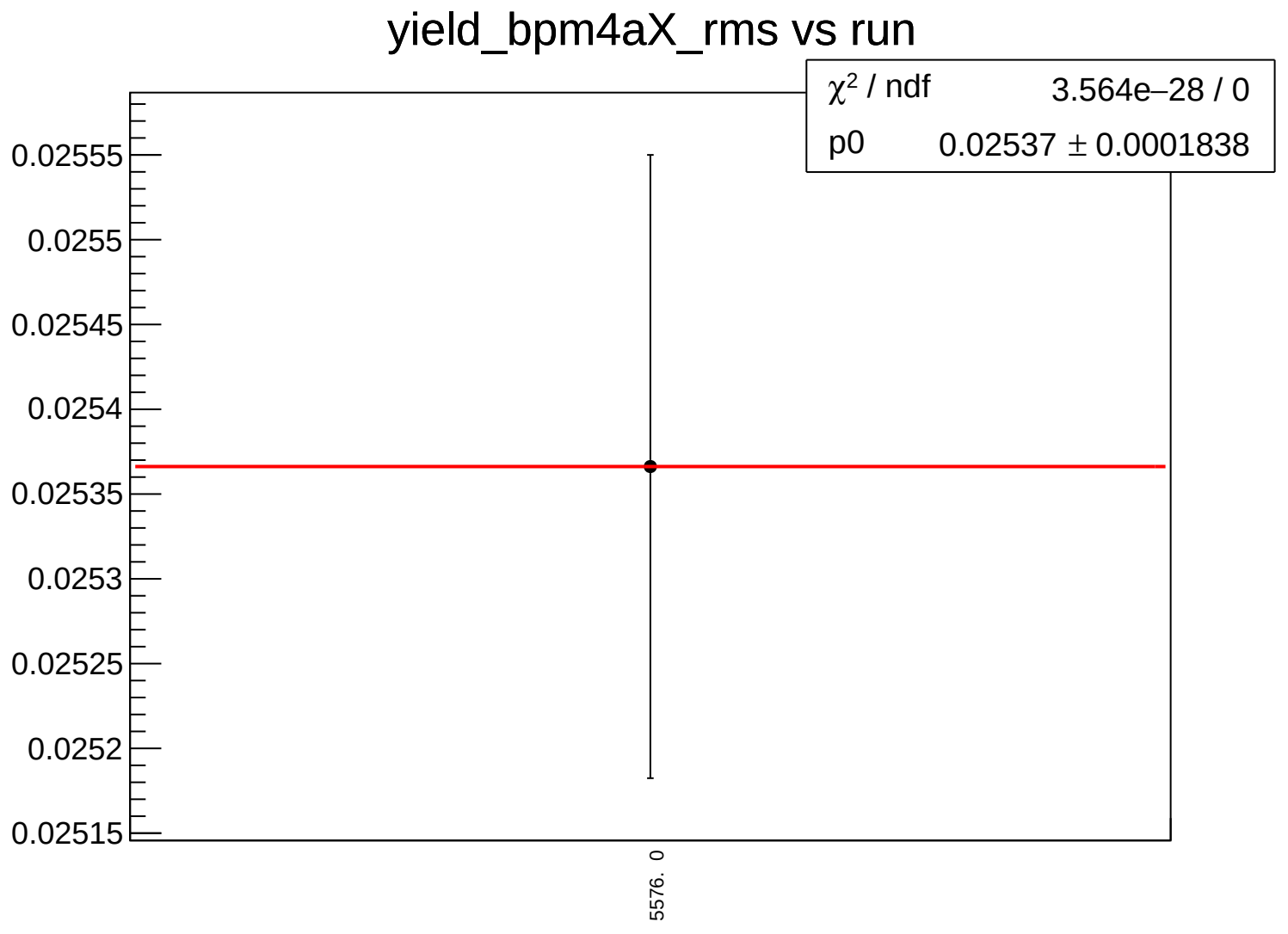

yield_cav4dX_rms vs run
×10⁻³
0.1645
0.164
0.1635
0.163
0.1625
0.162
χ² / ndf 0 / 0
p0 0.0001632 ± 1.182e−06
5576. 0

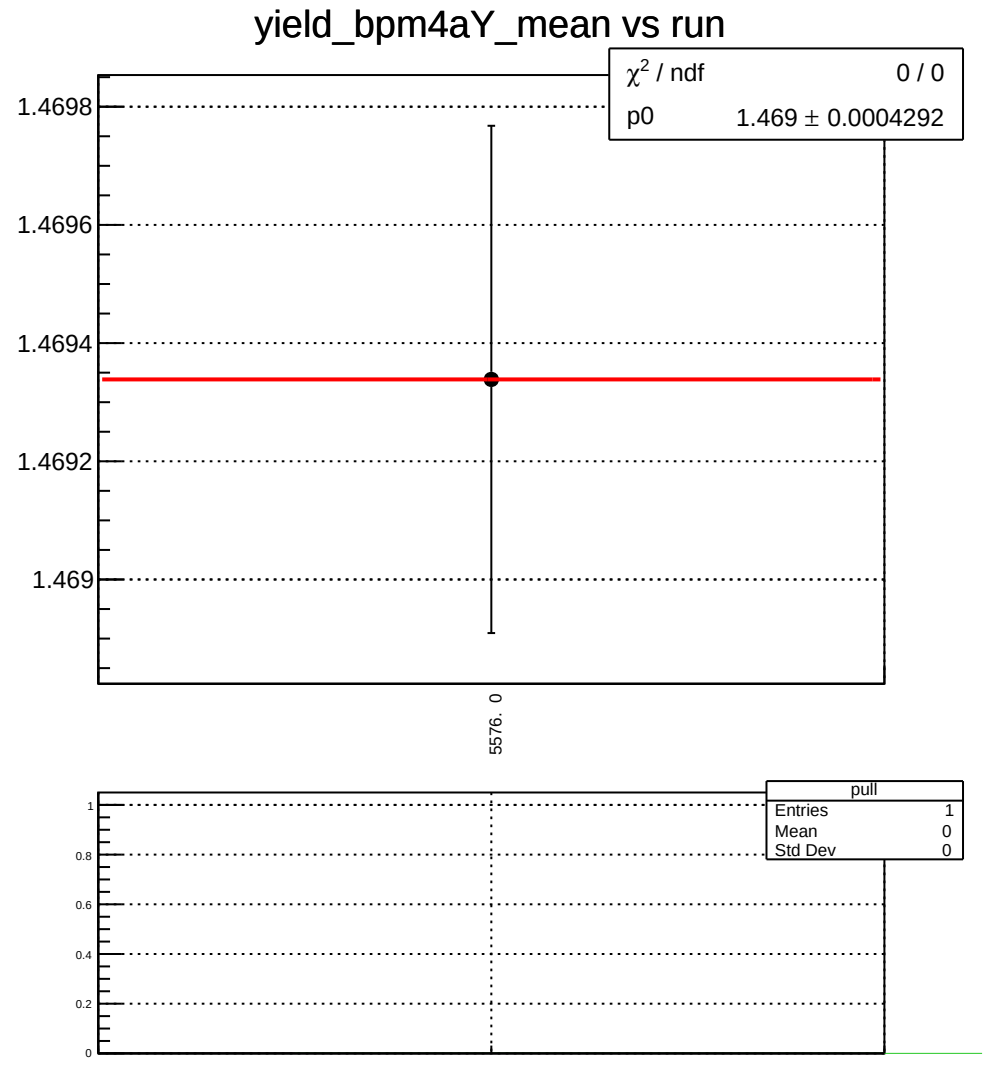

yield_cav4dY_mean vs run
χ² / ndf 0 / 0
p0 0.6641 ± 1.679e−07
6409105
0.664091
6409095
6640909
6409085
6640908
6409075
6640907
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

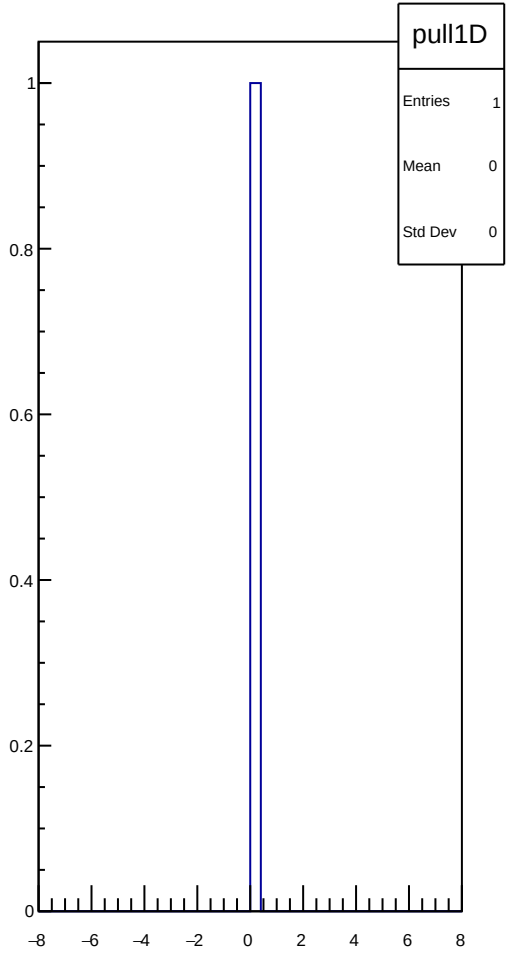

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

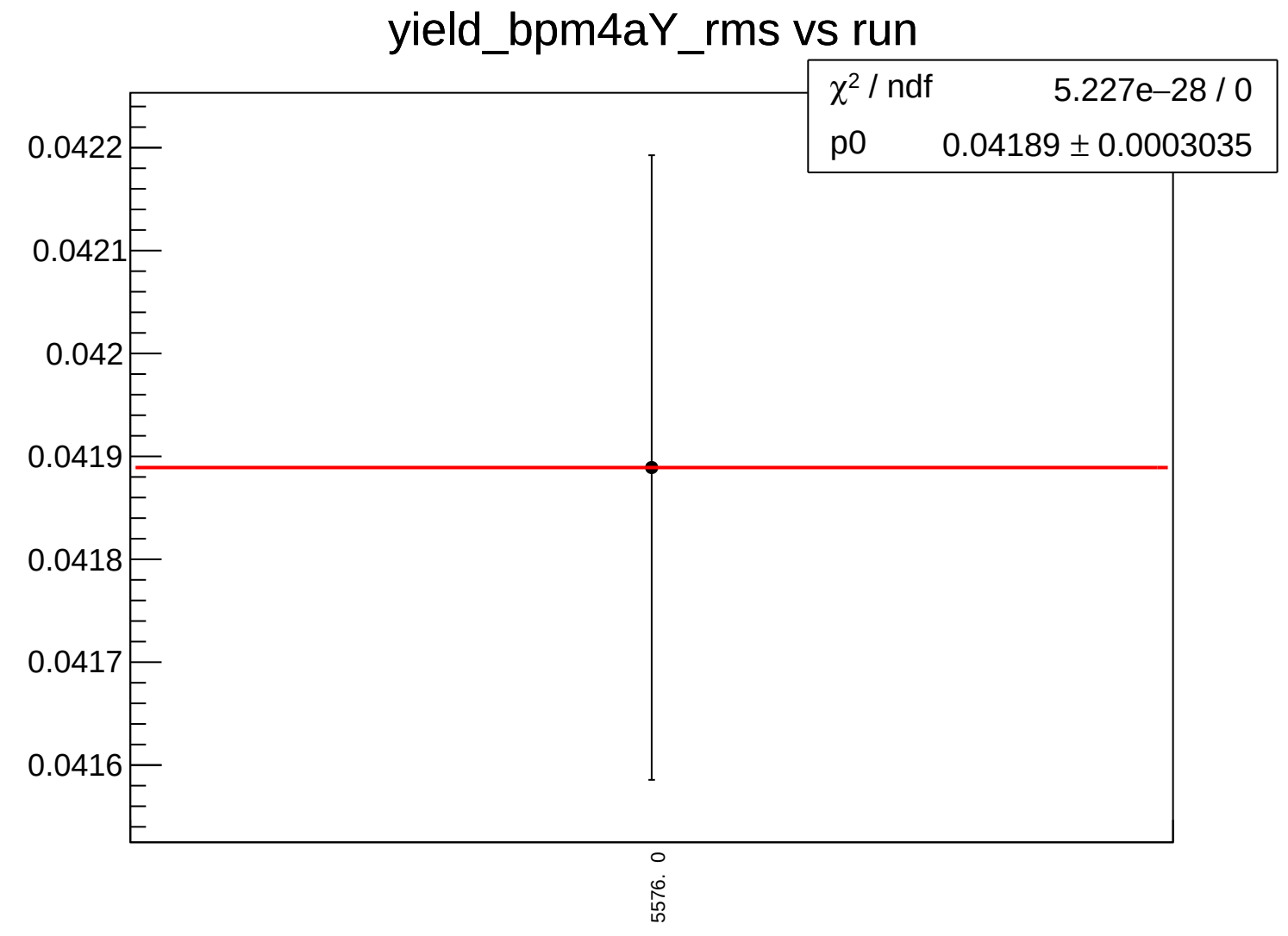

yield_cav4dY_rms vs run
×10⁻⁶
16.5
16.45
16.4
16.35
16.3
16.25
χ² / ndf 0 / 0
p0 1.638e−05 ± 1.187e−07
5576. 0

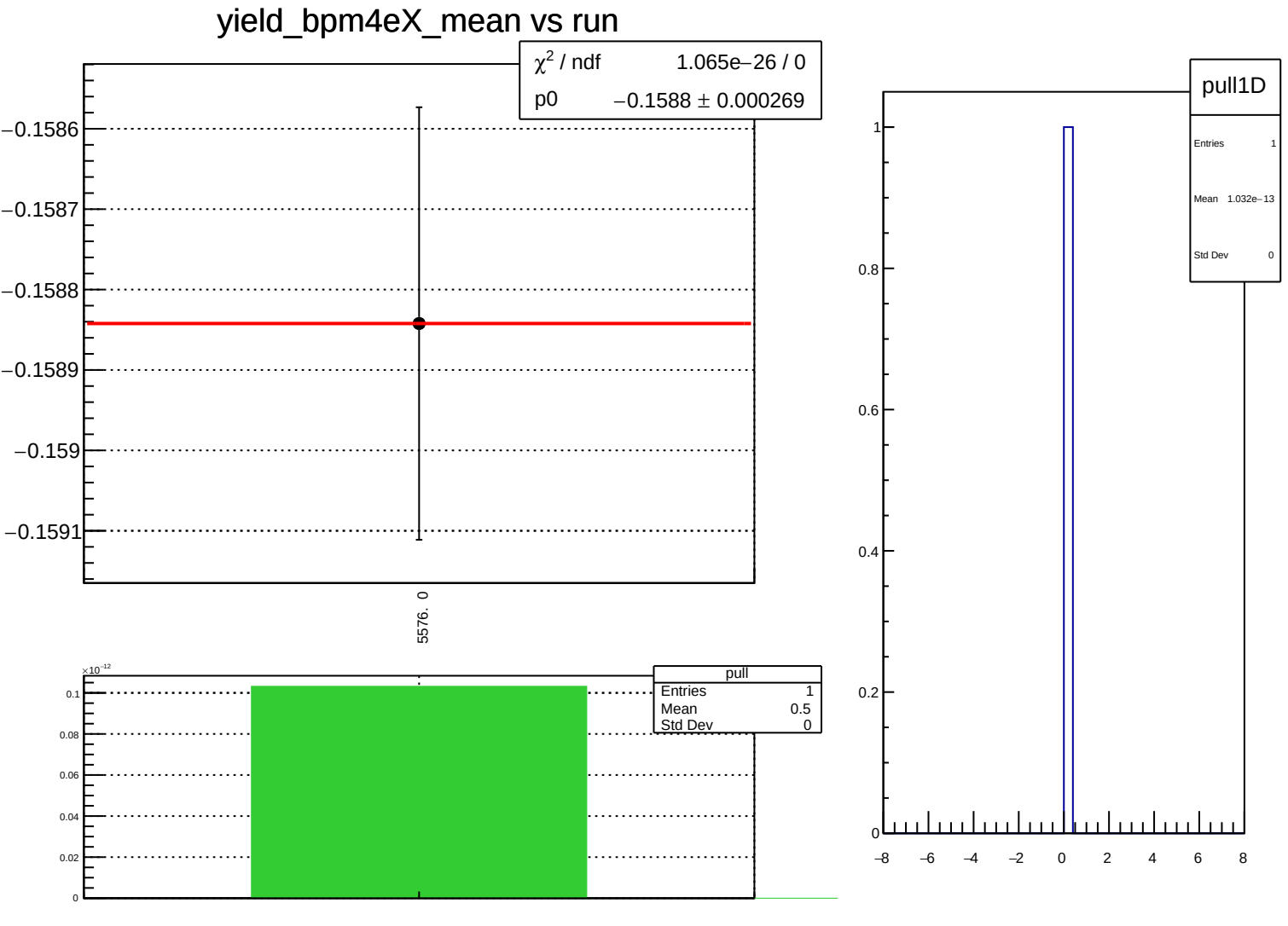

yield_bpm4aX_mean vs run
χ² / ndf 1.825e−25 / 0
p0 −0.5587 ± 0.0002599
−0.5584
−0.5585
−0.5586
−0.5587
−0.5588
−0.5589
5576. 0
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.272e−13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

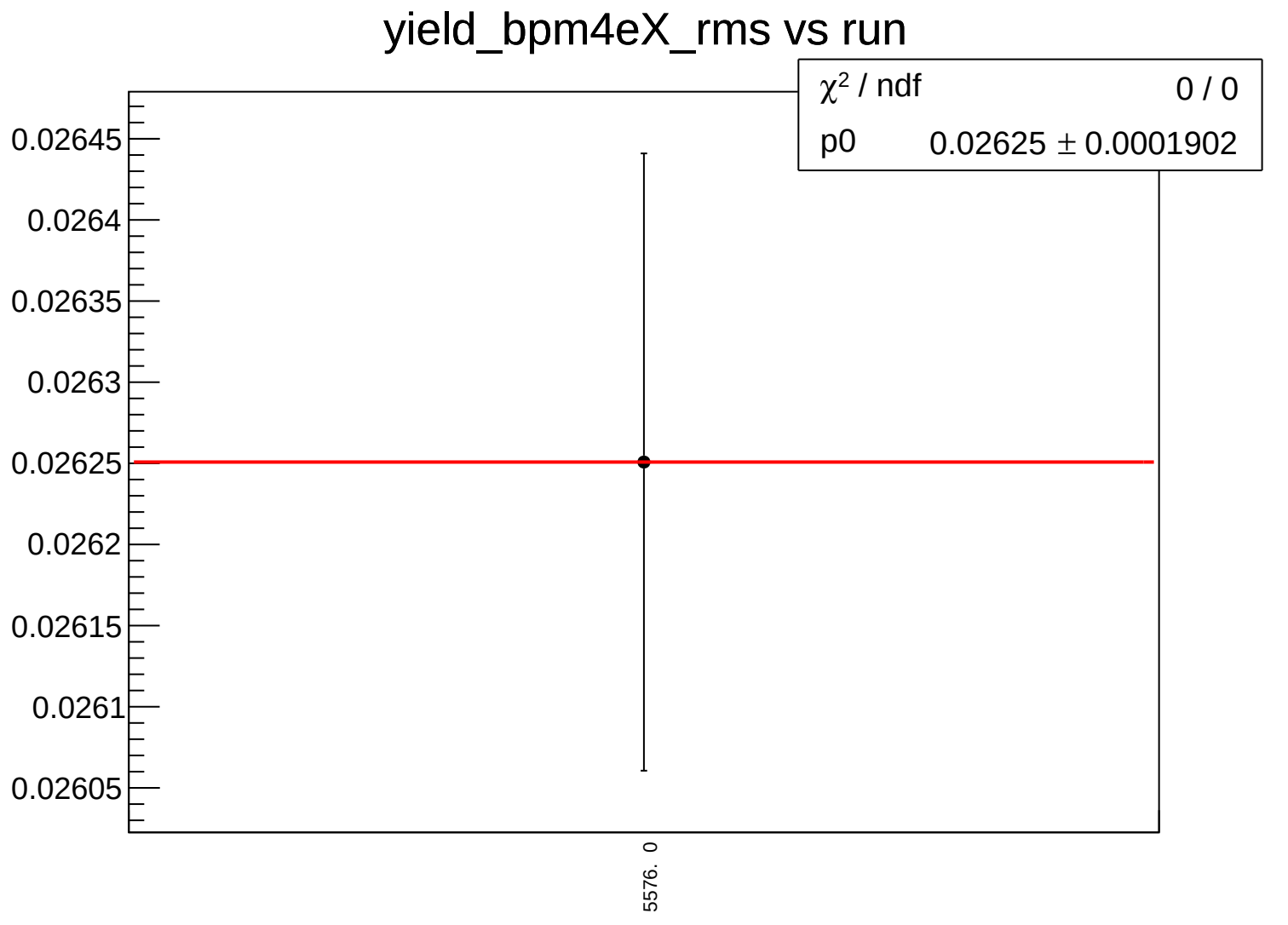

yield_bpm4aX_rms vs run
χ² / ndf 3.564e−28 / 0
p0 0.02537 ± 0.0001838
0.02555
0.0255
0.02545
0.0254
0.02535
0.0253
0.02525
0.0252
0.02515
5576. 0

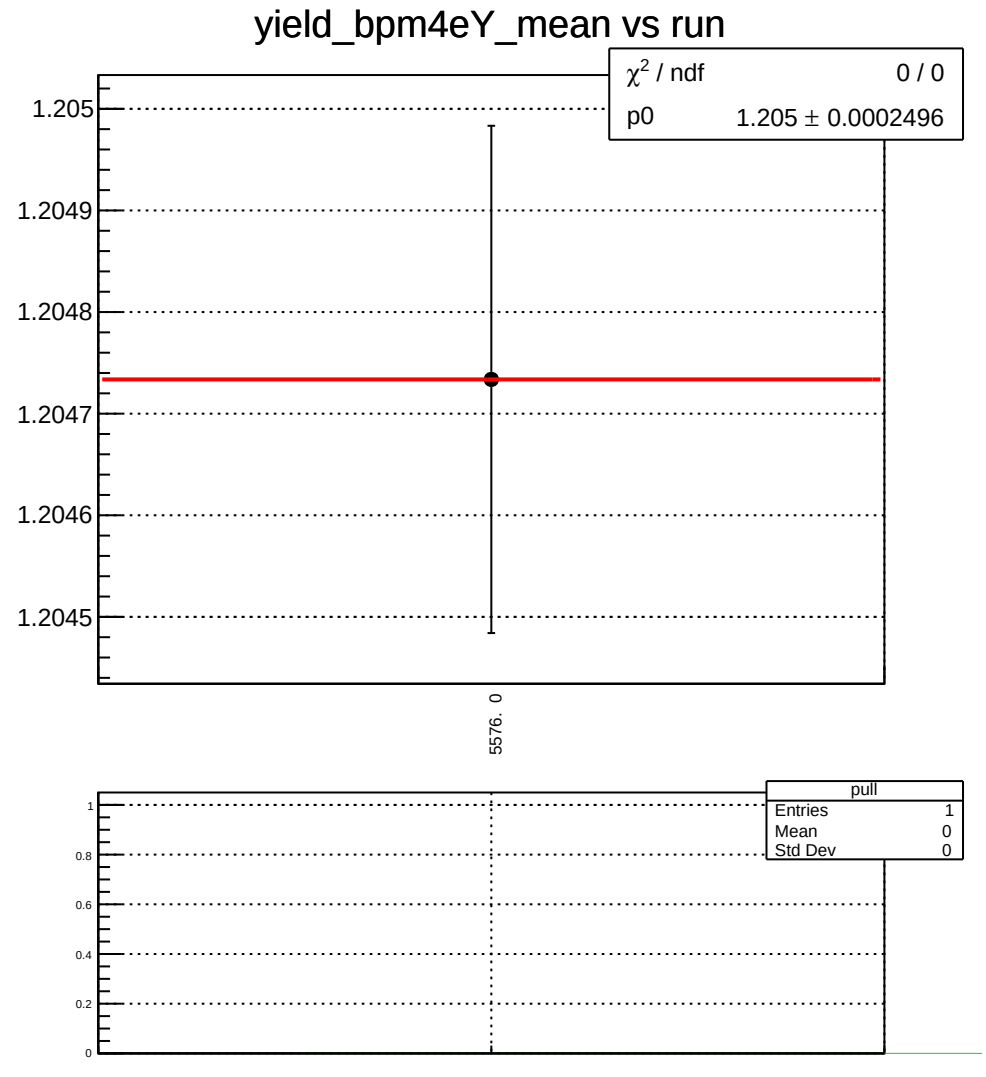

yield_bpm4aY_mean vs run
χ² / ndf 0 / 0
p0 1.469 ± 0.0004292
1.4698
1.4696
1.4694
1.4692
1.469
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

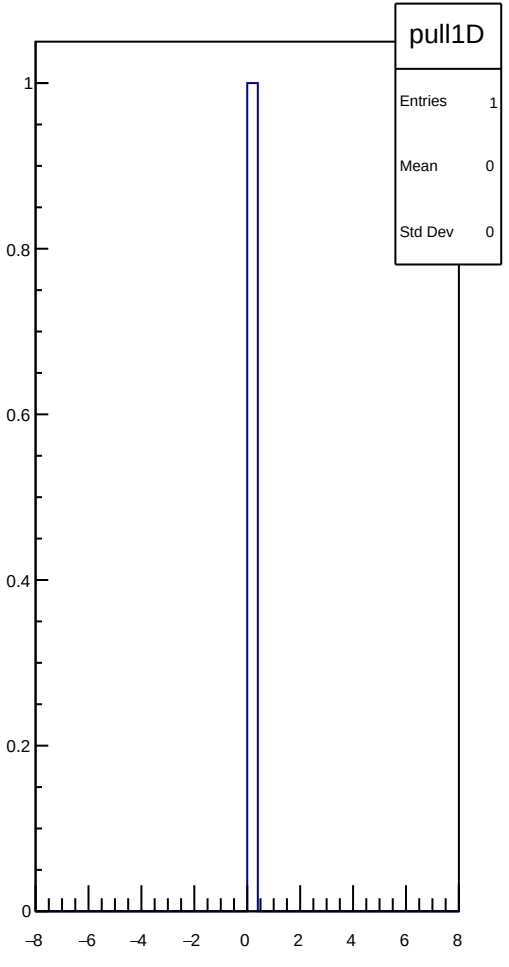

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

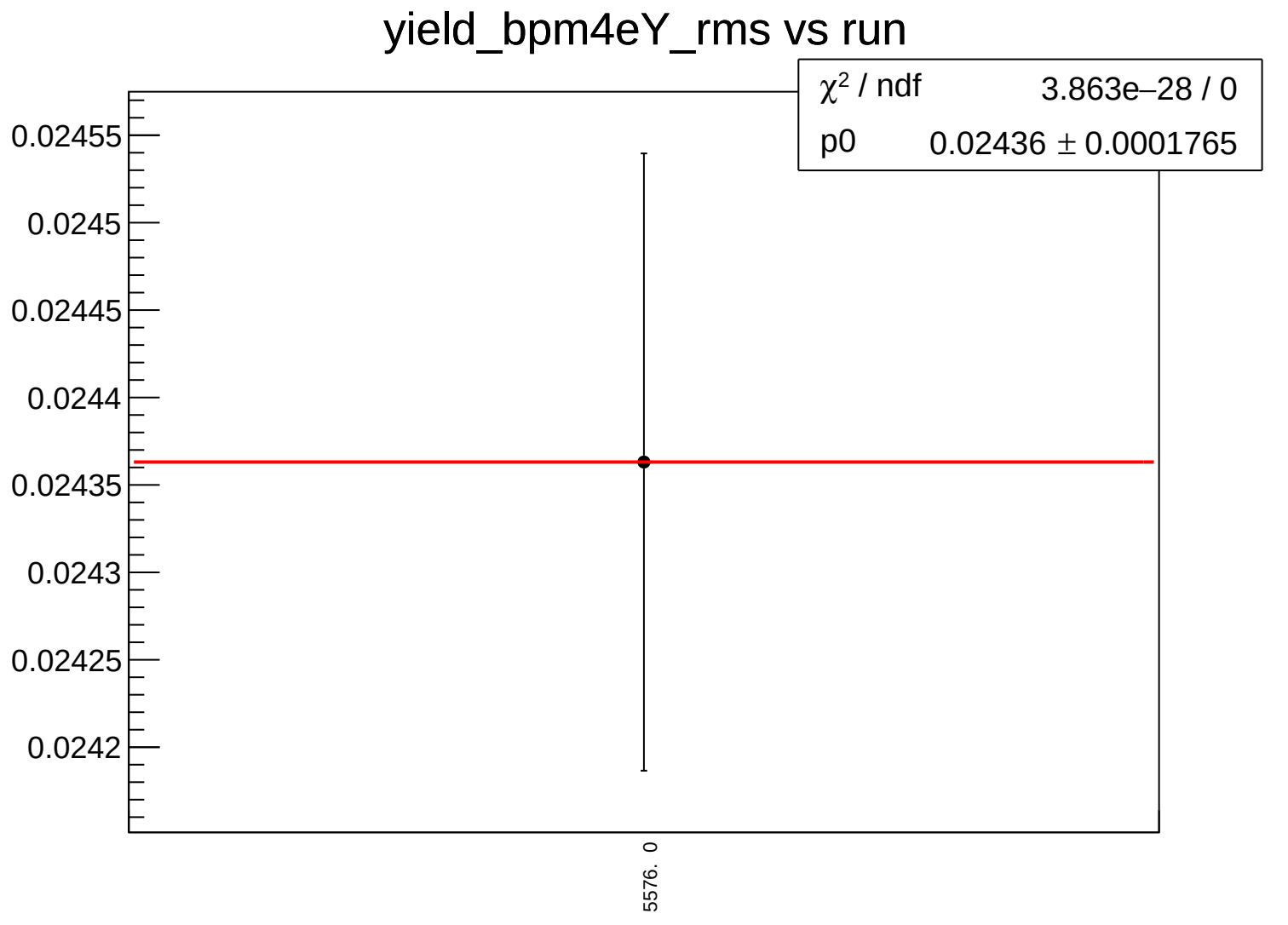

yield_bpm4aY_rms vs run
χ² / ndf 5.227e–28 / 0
p0 0.04189 ± 0.0003035
0.0422
0.0421
0.042
0.0419
0.0418
0.0417
0.0416
5576. 0

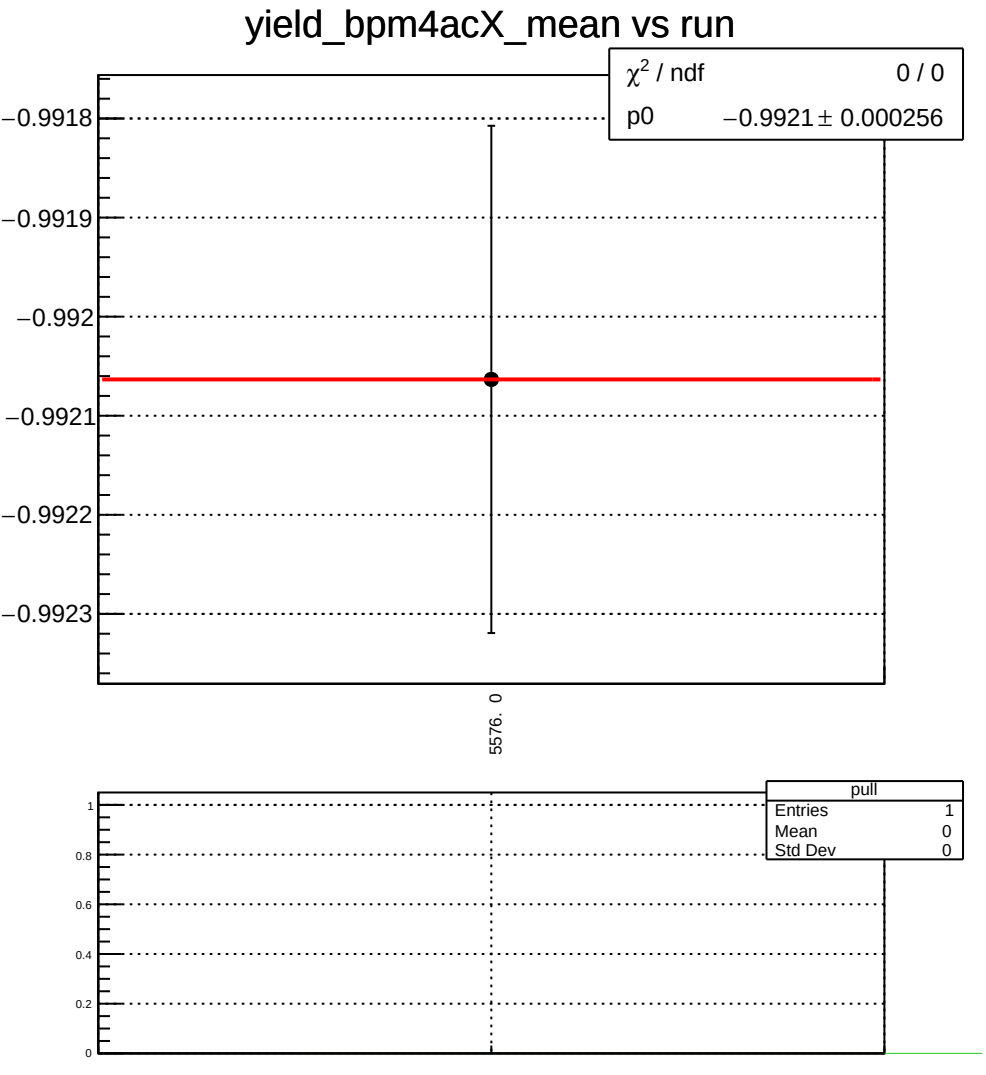

yield_bpm4eX_mean vs run
χ² / ndf 1.065e−26 / 0
p0 −0.1588 ± 0.000269
−0.1586
−0.1587
−0.1588
−0.1589
−0.159
−0.1591
5576. 0
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 1.032e−13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

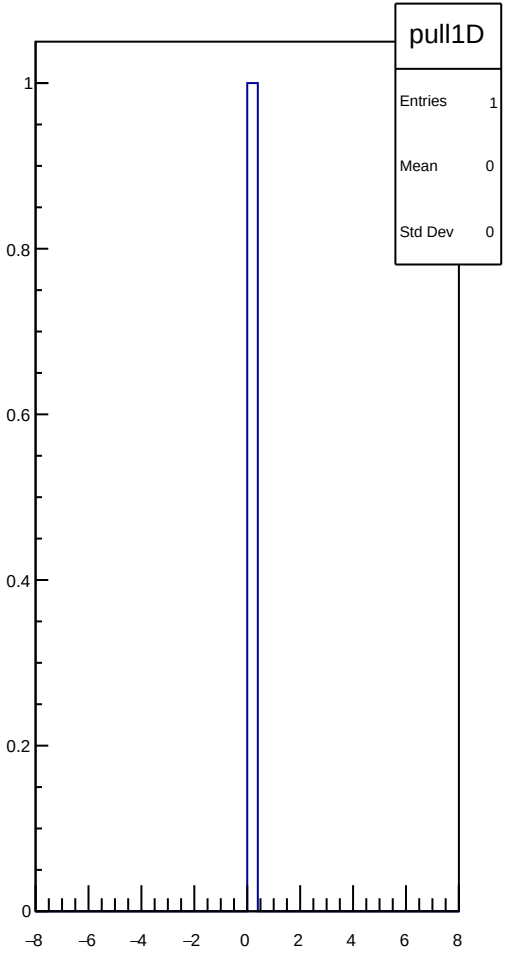

yield_bpm4eX_rms vs run
χ² / ndf 0 / 0
p0 0.02625 ± 0.0001902
0.02645
0.0264
0.02635
0.0263
0.02625
0.0262
0.02615
0.0261
0.02605
5576. 0

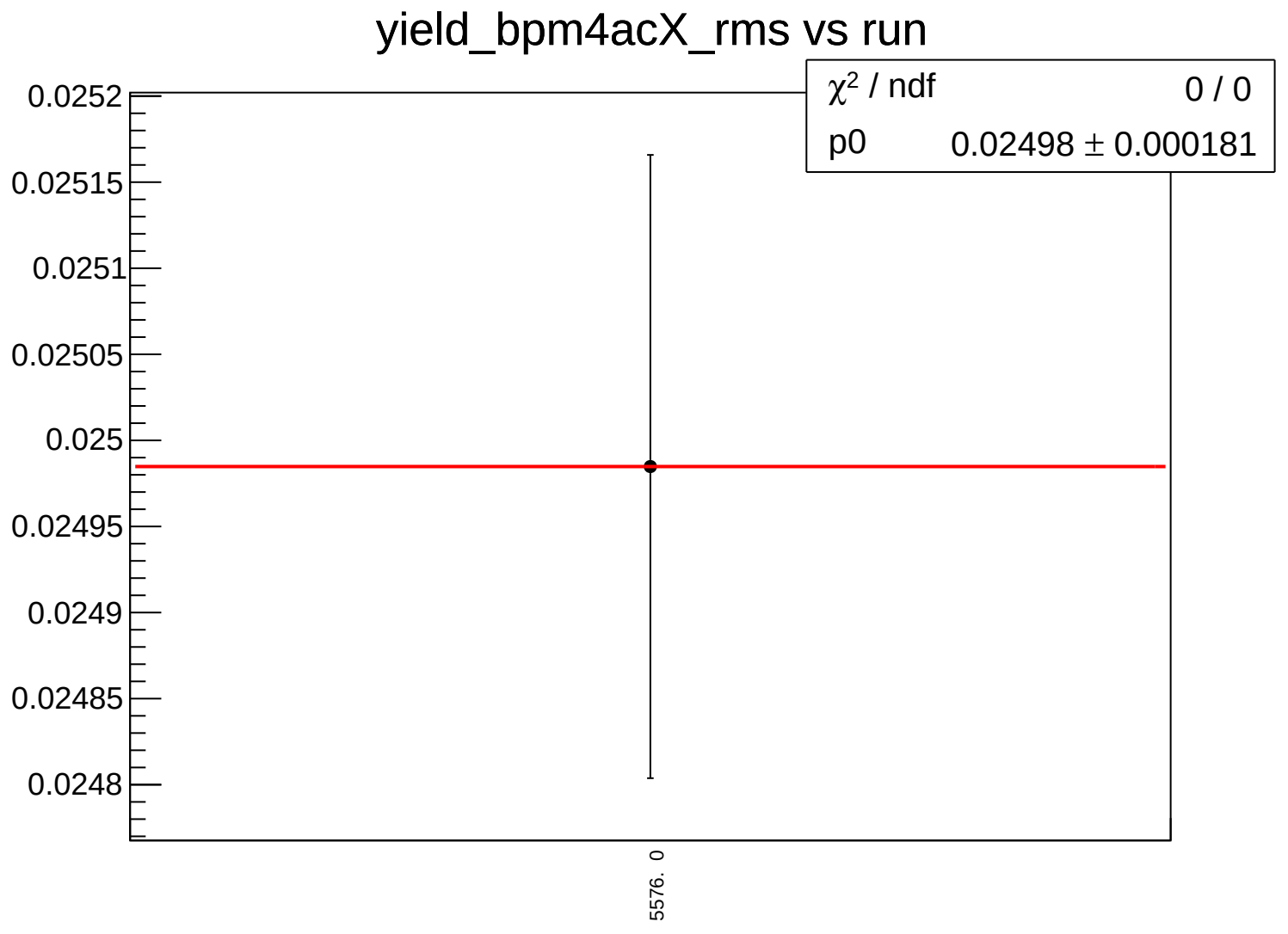

yield_bpm4eY_mean vs run
χ² / ndf 0 / 0
p0 1.205 ± 0.0002496
1.205
1.2049
1.2048
1.2047
1.2046
1.2045
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

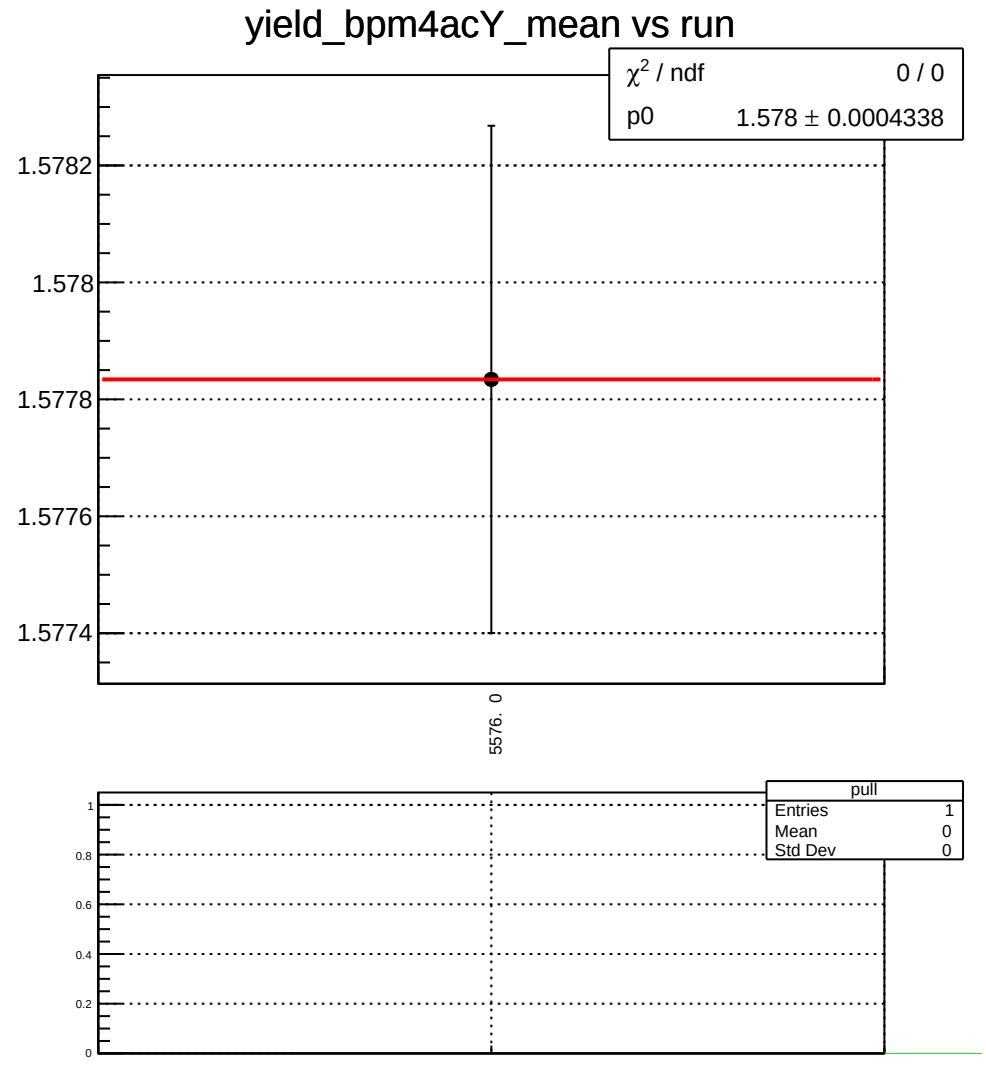

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

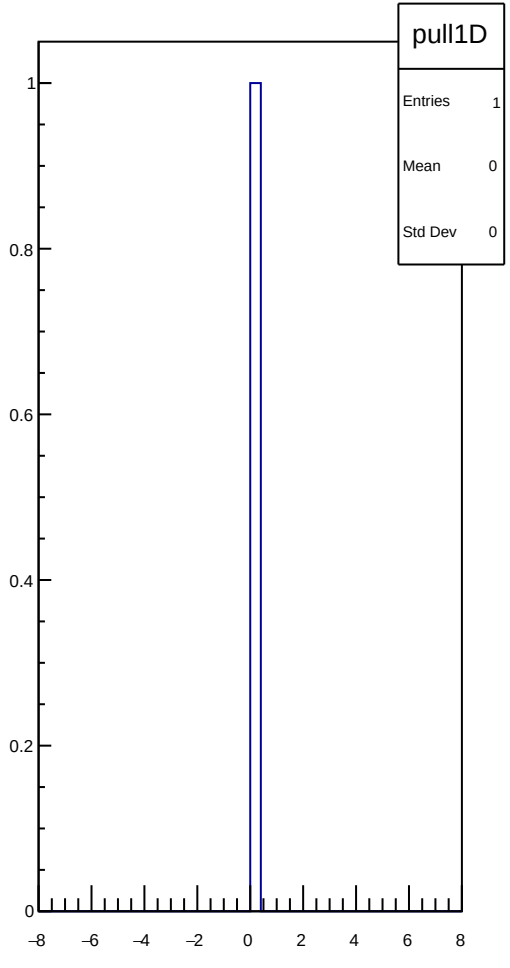

yield_bpm4eY_rms vs run
χ² / ndf 3.863e–28 / 0
p0 0.02436 ± 0.0001765
0.02455
0.0245
0.02445
0.0244
0.02435
0.0243
0.02425
0.0242
5576. 0

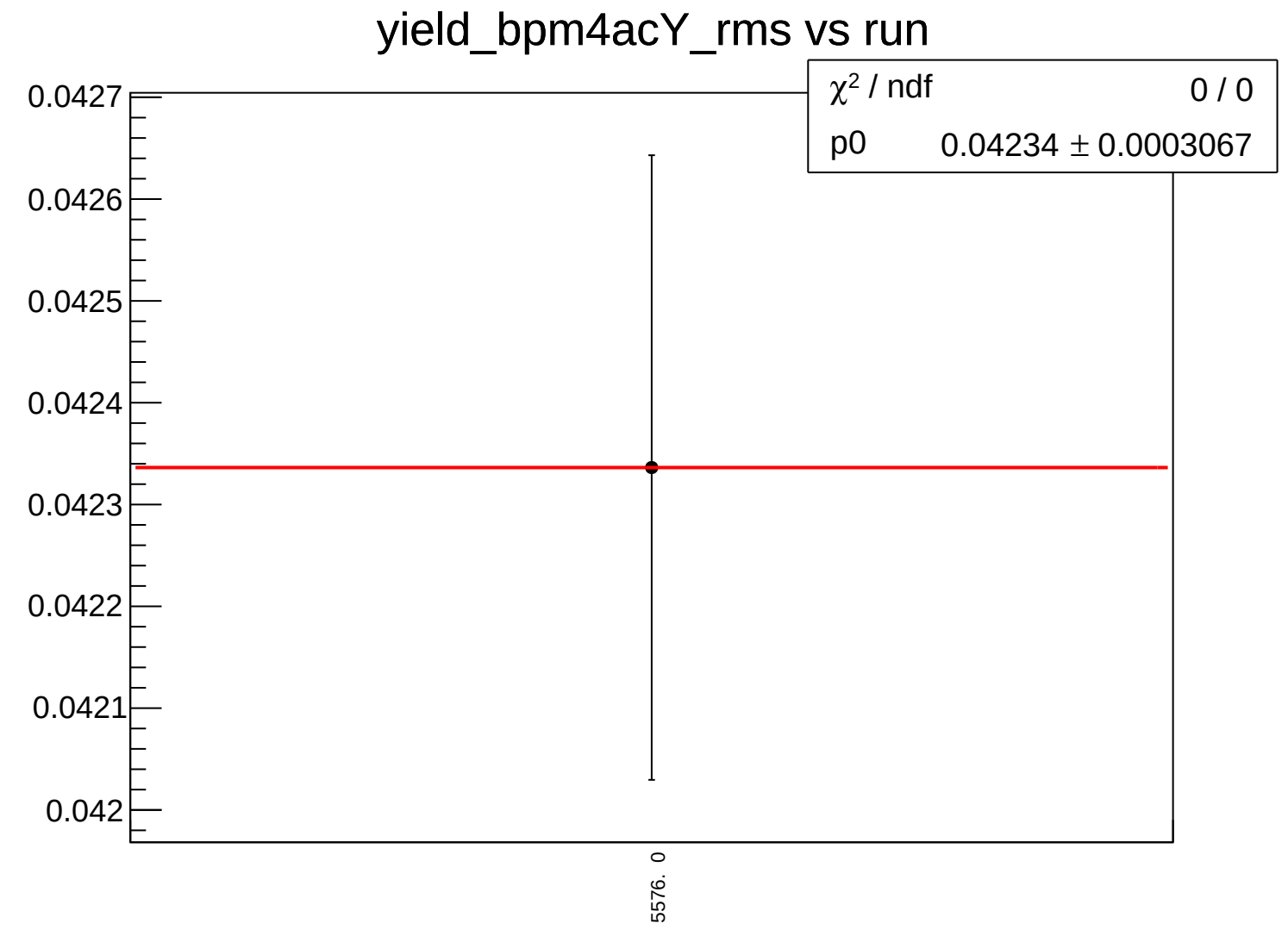

yield_bpm4acX_mean vs run
χ² / ndf 0 / 0
p0 −0.9921 ± 0.000256
−0.9918
−0.9919
−0.992
−0.9921
−0.9922
−0.9923
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

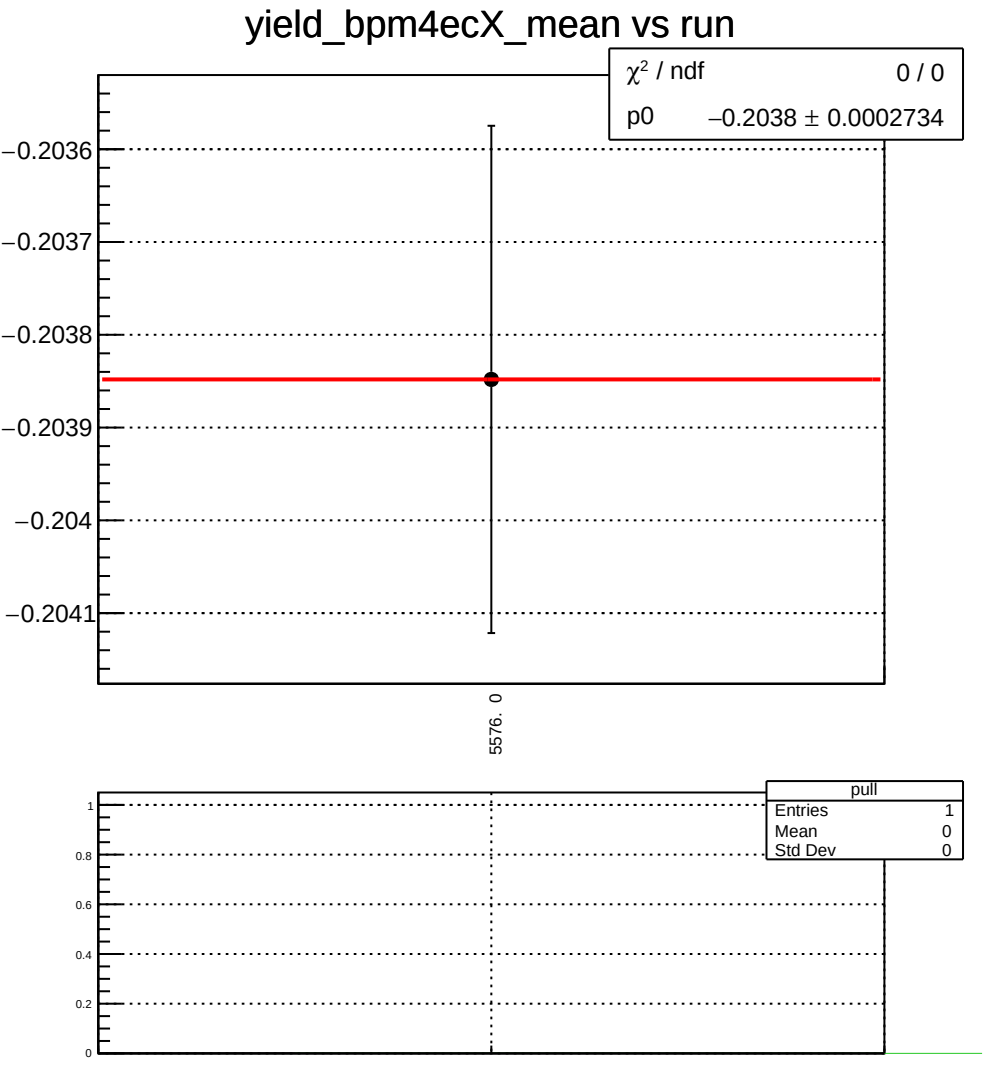

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

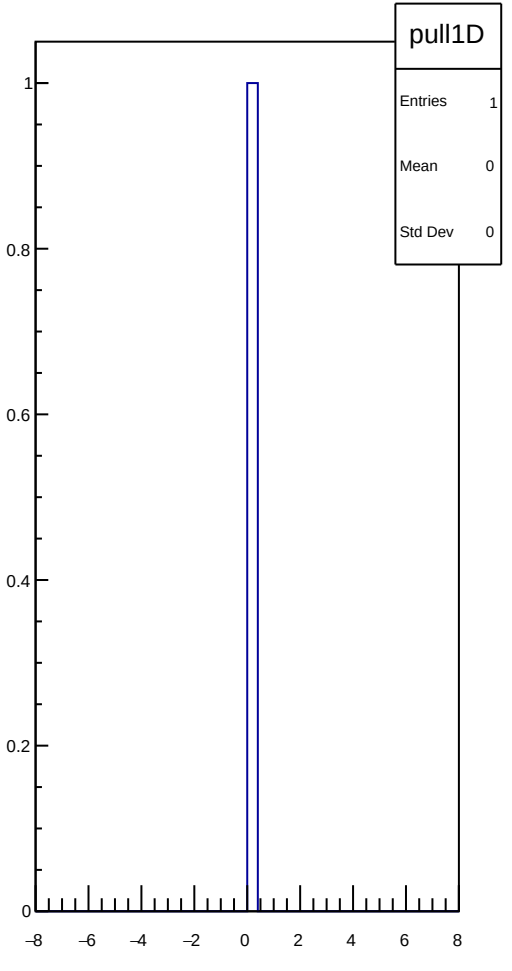

yield_bpm4acX_rms vs run
χ² / ndf 0 / 0
p0 0.02498 ± 0.000181
0.0252
0.02515
0.0251
0.02505
0.025
0.02495
0.0249
0.02485
0.0248
5576. 0


yield_bpm4acY_mean vs run
χ² / ndf 0 / 0
p0 1.578 ± 0.0004338
1.5782
1.578
1.5778
1.5776
1.5774
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_bpm4acY_rms vs run
χ² / ndf 0 / 0
p0 0.04234 ± 0.0003067
0.0427
0.0426
0.0425
0.0424
0.0423
0.0422
0.0421
0.042
5576. 0


yield_bpm4ecX_mean vs run
χ² / ndf 0 / 0
p0 −0.2038 ± 0.0002734
−0.2036
−0.2037
−0.2038
−0.2039
−0.204
−0.2041
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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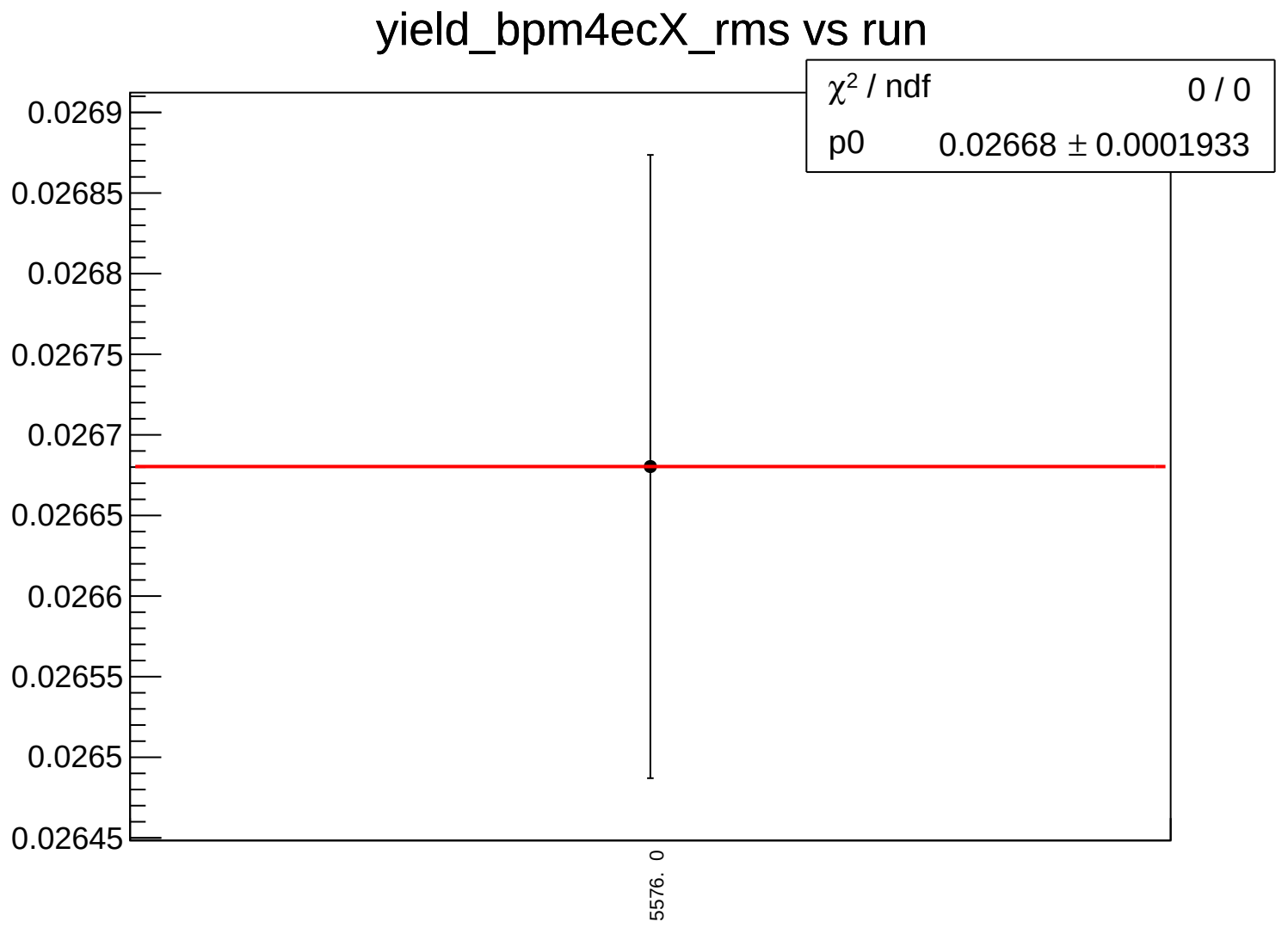
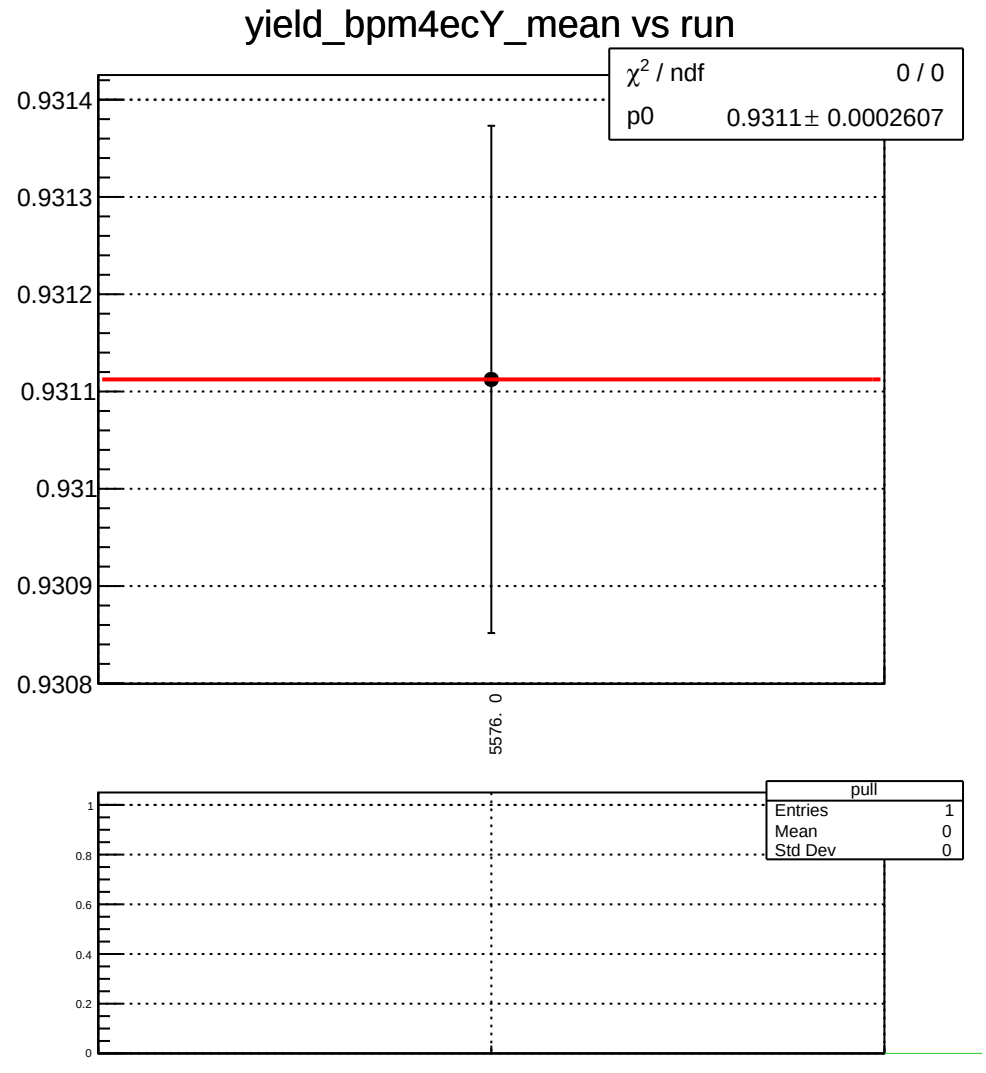
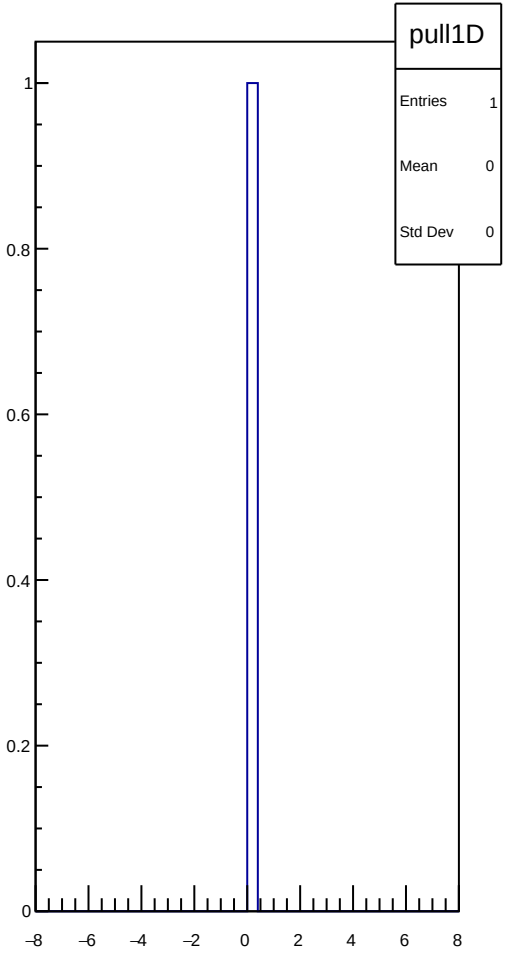
2
4
6
8


yield_bpm4ecX_rms vs run
χ² / ndf 0 / 0
p0 0.02668 ± 0.0001933
0.0269
0.02685
0.0268
0.02675
0.0267
0.02665
0.0266
0.02655
0.0265
0.02645
5576. 0


yield_bpm4ecY_mean vs run
χ² / ndf 0 / 0
p0 0.9311 ± 0.0002607
0.9314
0.9313
0.9312
0.9311
0.931
0.9309
0.9308
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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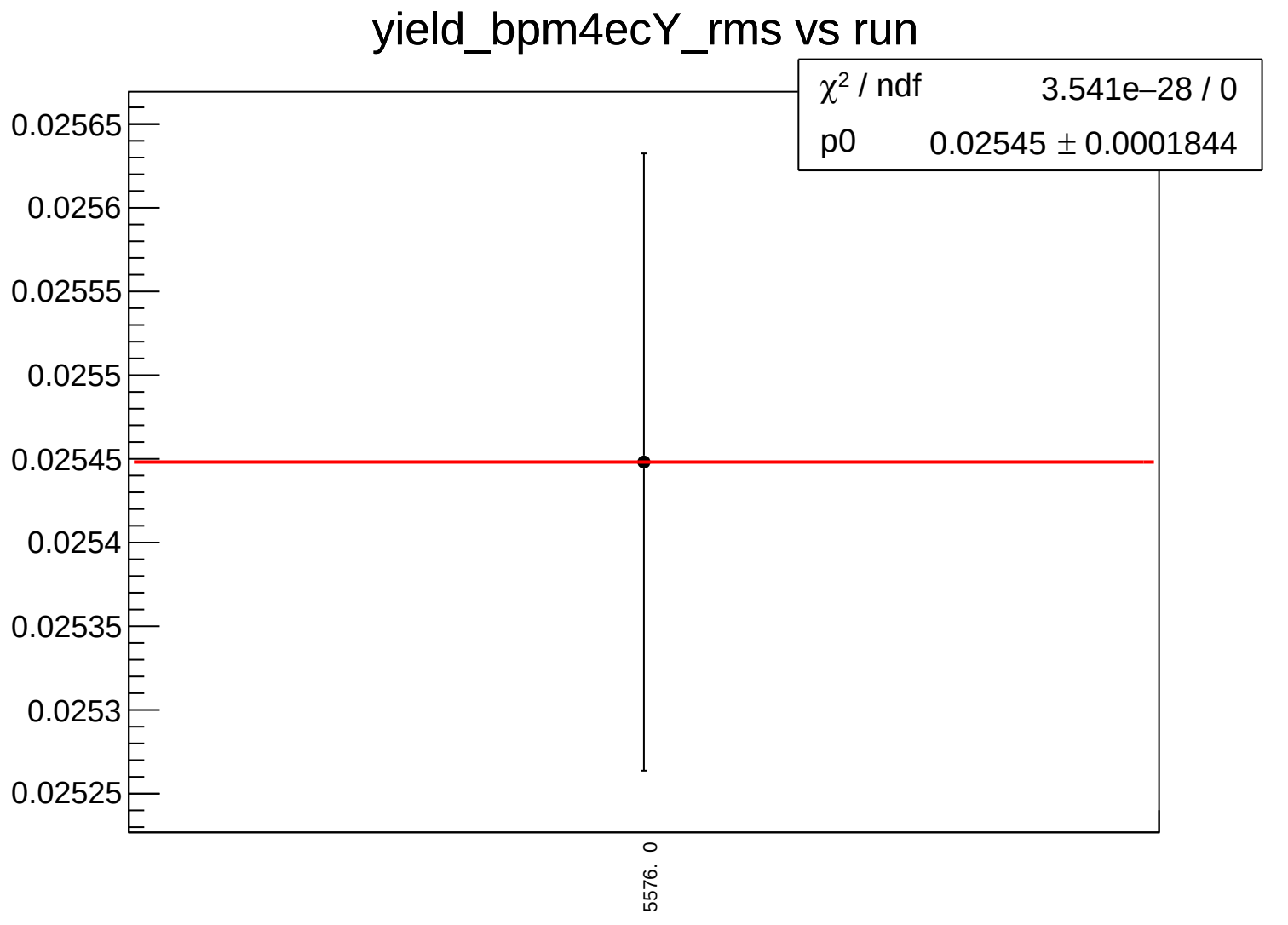
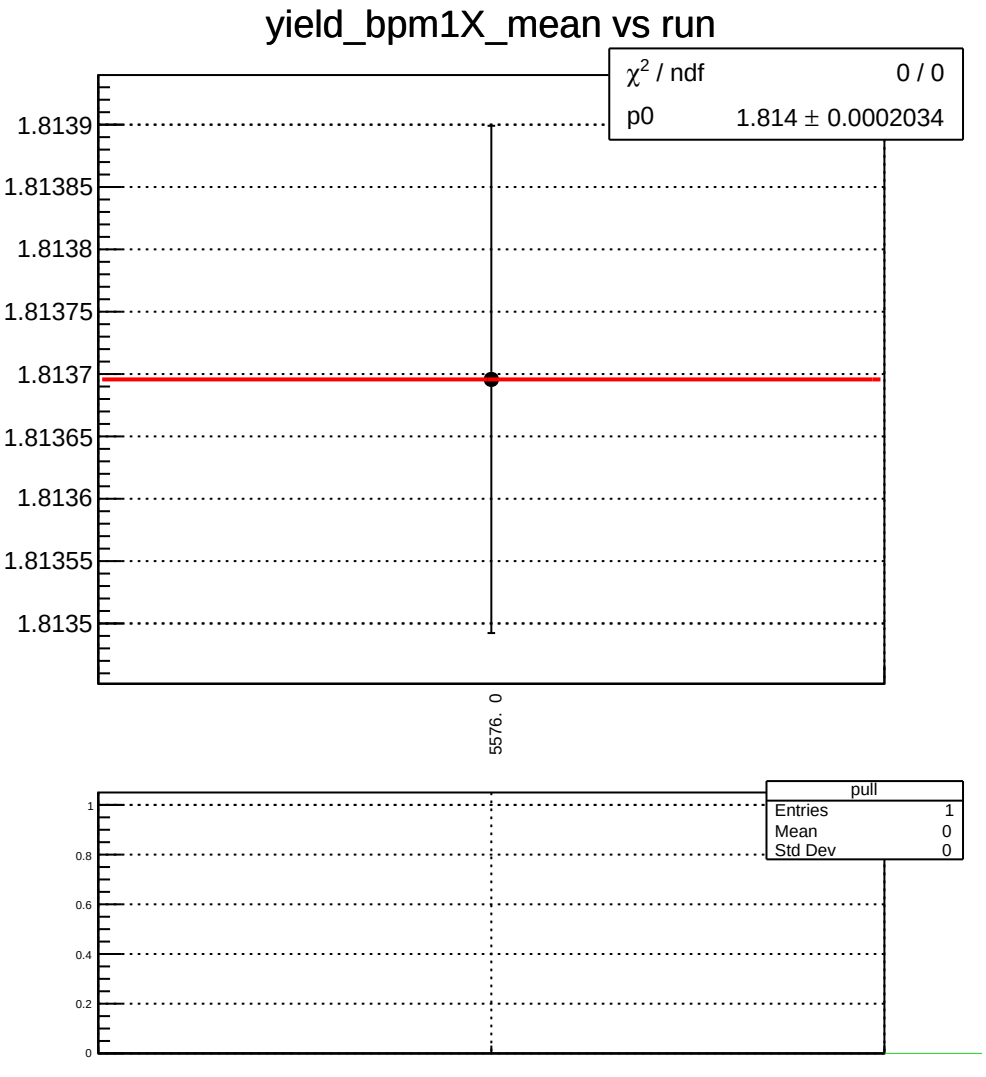
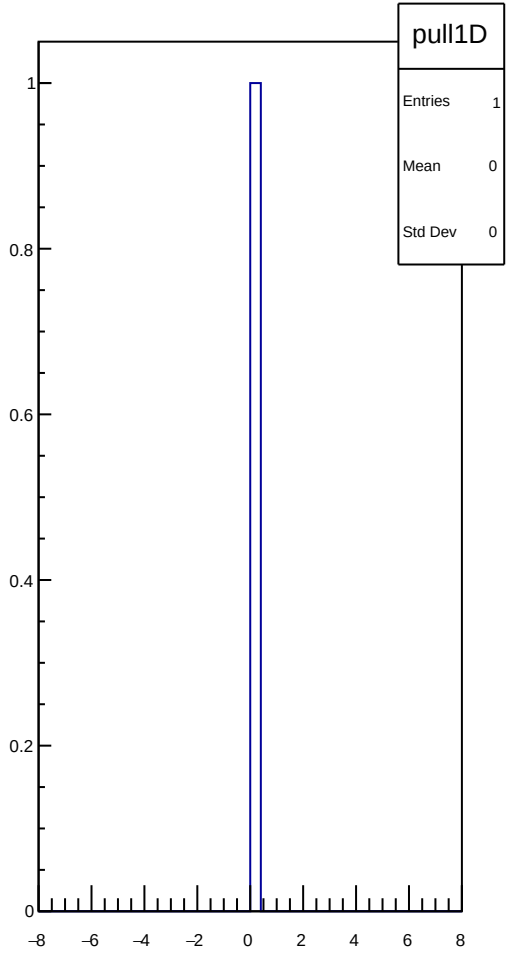
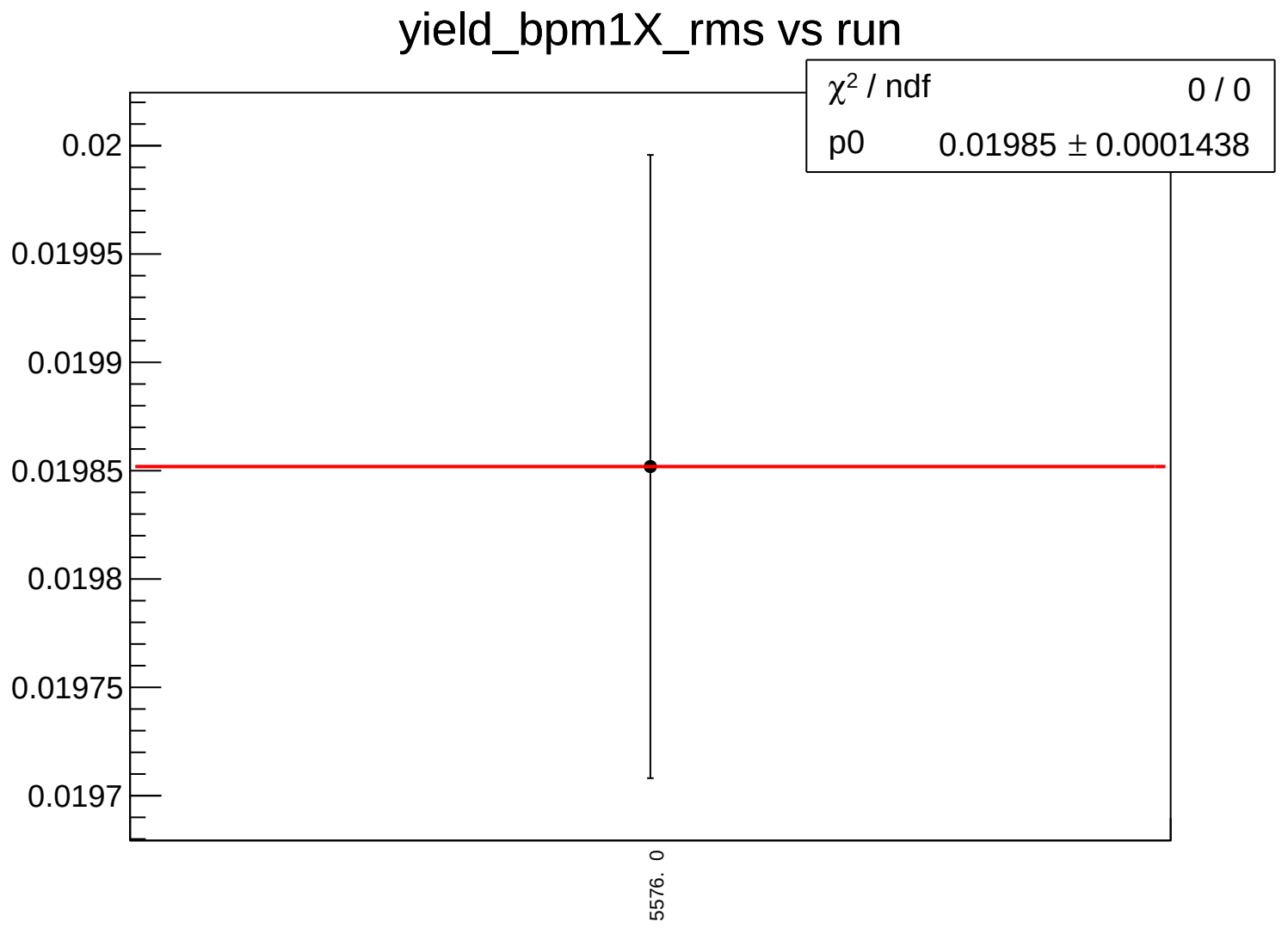
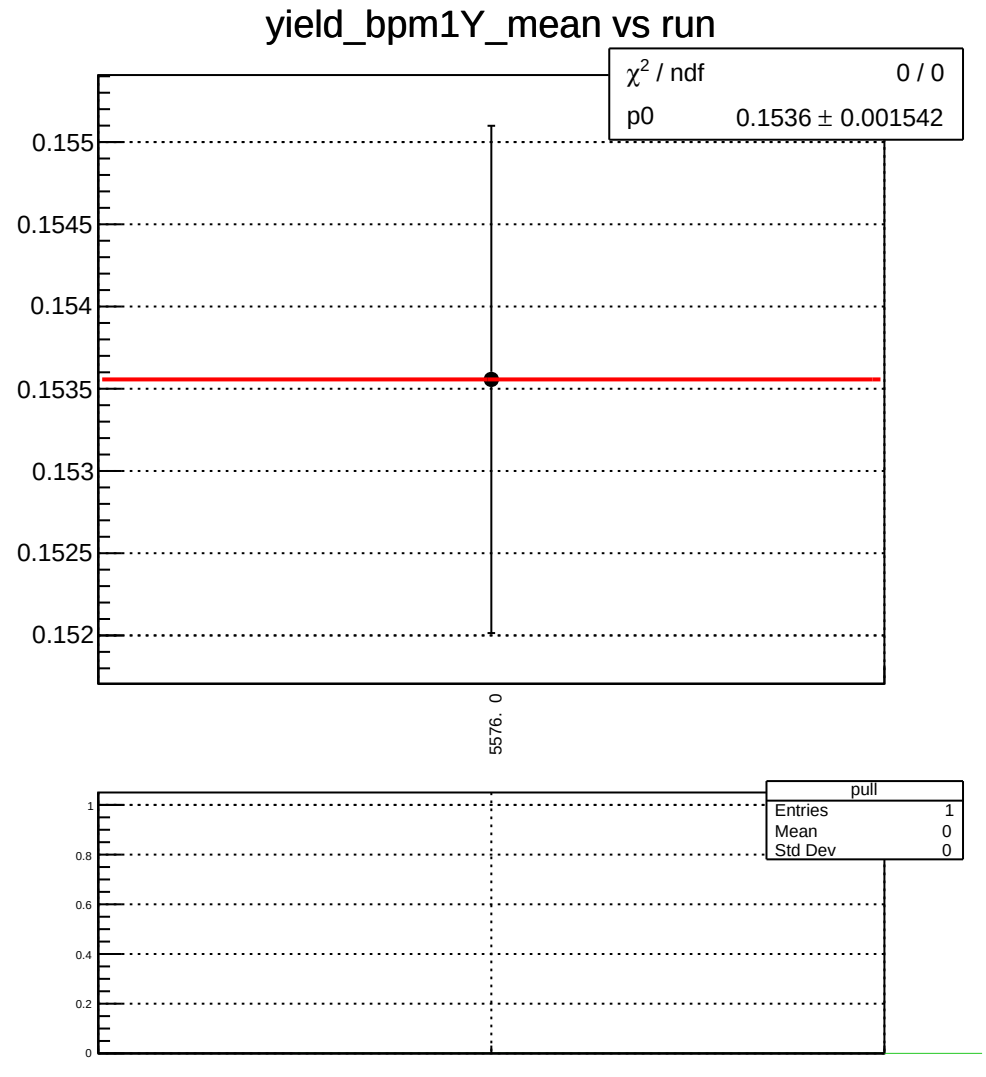
0
2
4
6
8

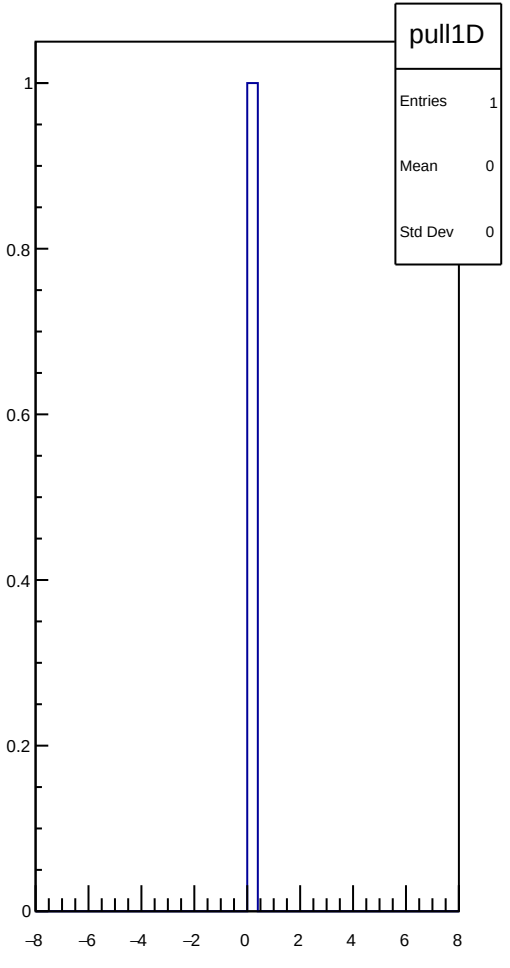

yield_bpm4ecY_rms vs run
χ² / ndf 3.541e–28 / 0
p0 0.02545 ± 0.0001844
0.02565
0.0256
0.02555
0.0255
0.02545
0.0254
0.02535
0.0253
0.02525
5576. 0


yield_bpm1X_mean vs run
χ² / ndf 0 / 0
p0 1.814 ± 0.0002034
1.8139
1.81385
1.8138
1.81375
1.8137
1.81365
1.8136
1.81355
1.8135
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_bpm1X_rms vs run
χ² / ndf 0 / 0
p0 0.01985 ± 0.0001438
0.02
0.01995
0.0199
0.01985
0.0198
0.01975
0.0197
5576. 0


yield_bpm1Y_mean vs run
χ² / ndf 0 / 0
p0 0.1536 ± 0.001542
0.155
0.1545
0.154
0.1535
0.153
0.1525
0.152
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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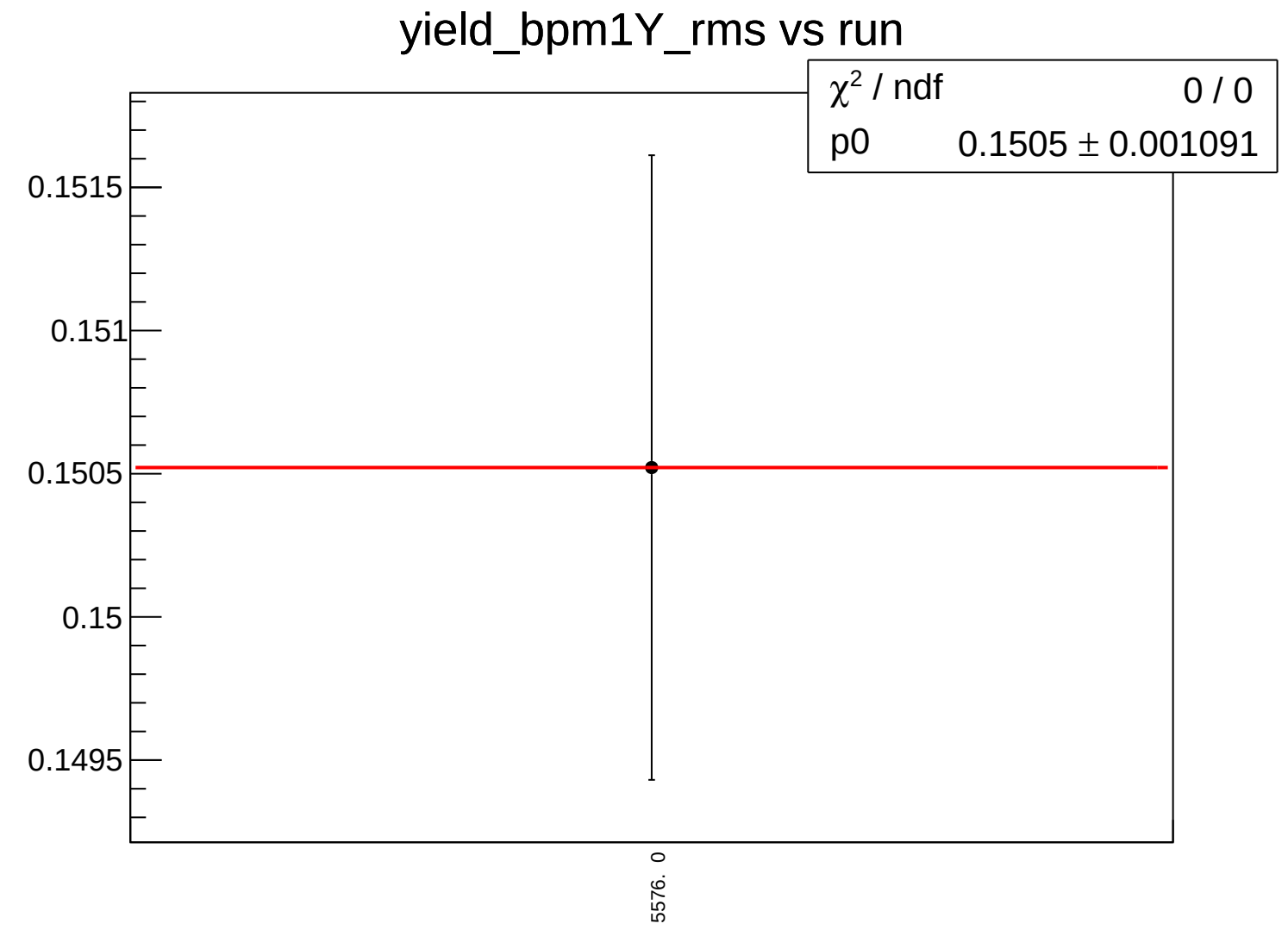
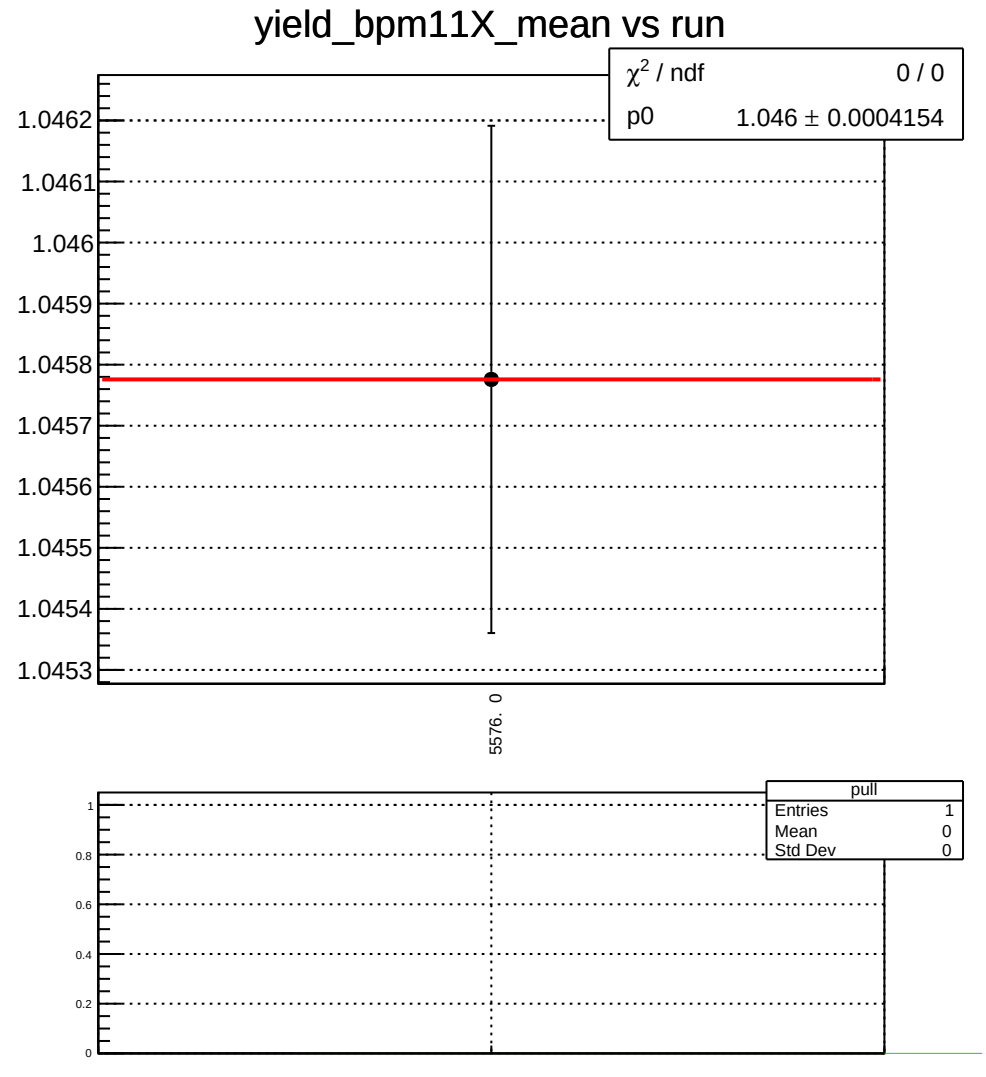
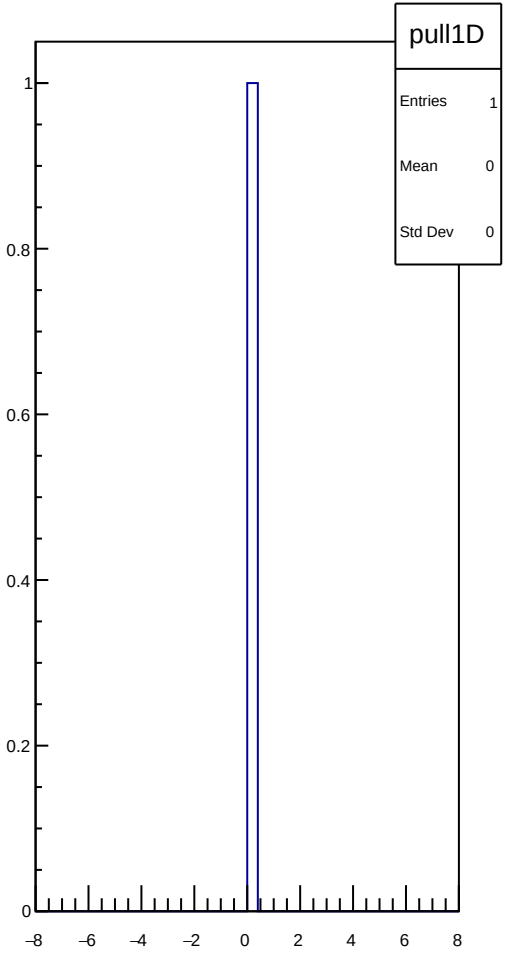
2
4
6
8


yield_bpm1Y_rms vs run
χ² / ndf 0 / 0
p0 0.1505 ± 0.001091
0.1515
0.151
0.1505
0.15
0.1495
5576. 0


yield_bpm11X_mean vs run
χ² / ndf 0 / 0
p0 1.046 ± 0.0004154
1.0462
1.0461
1.046
1.0459
1.0458
1.0457
1.0456
1.0455
1.0454
1.0453
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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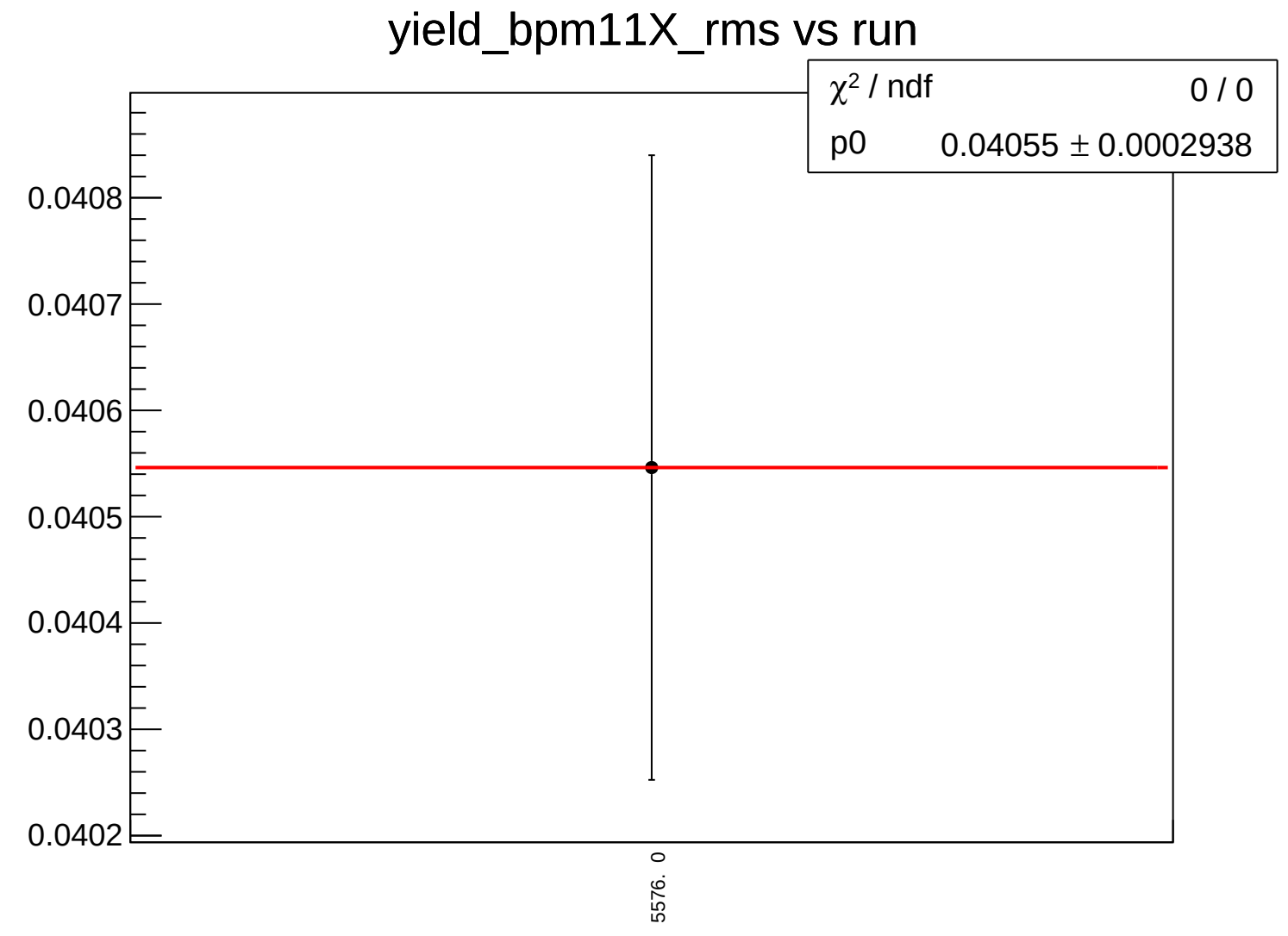
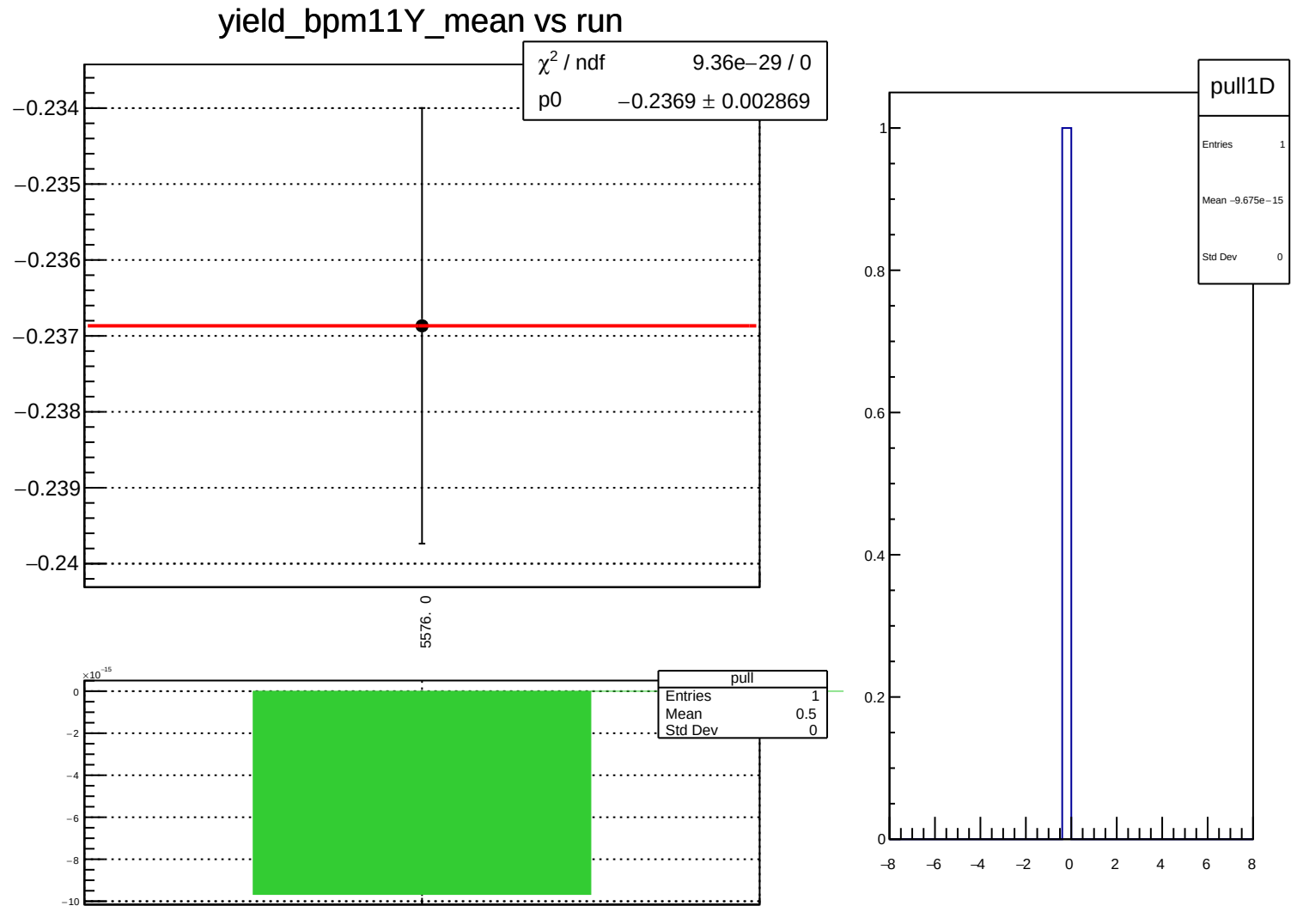
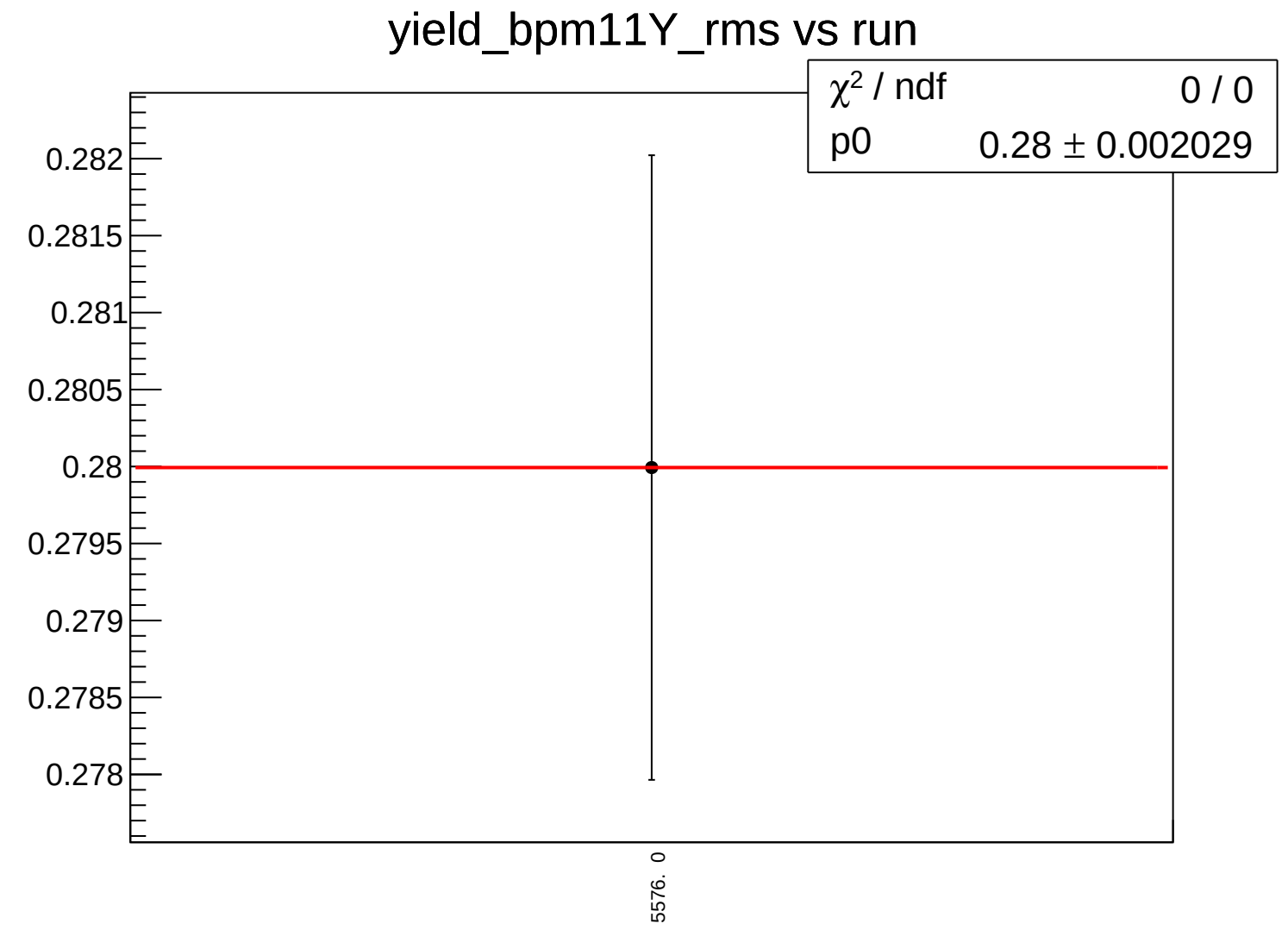
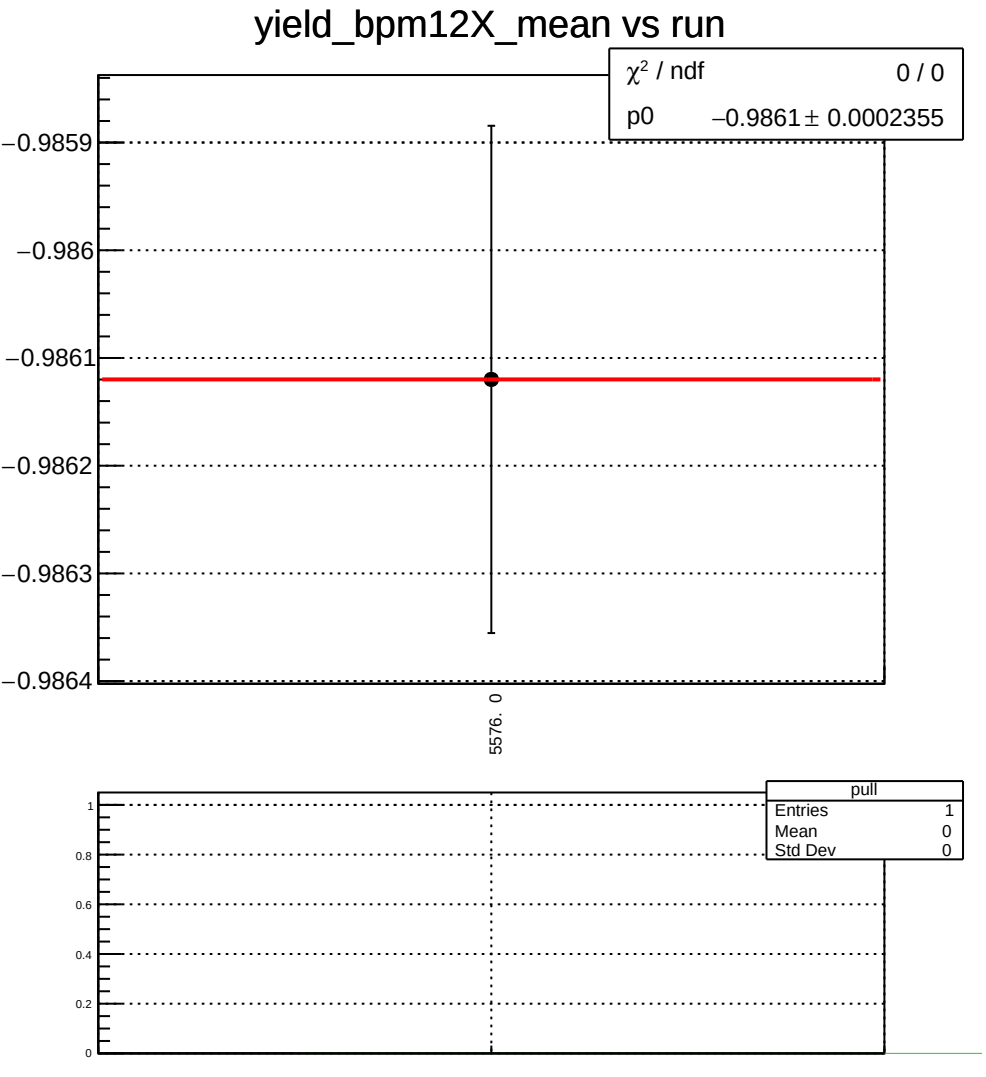
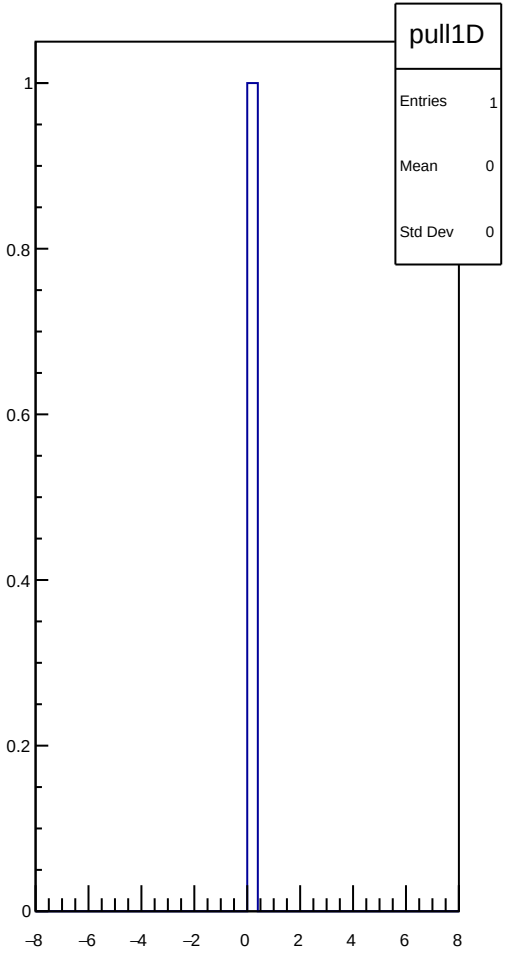
0
2
4
6
8

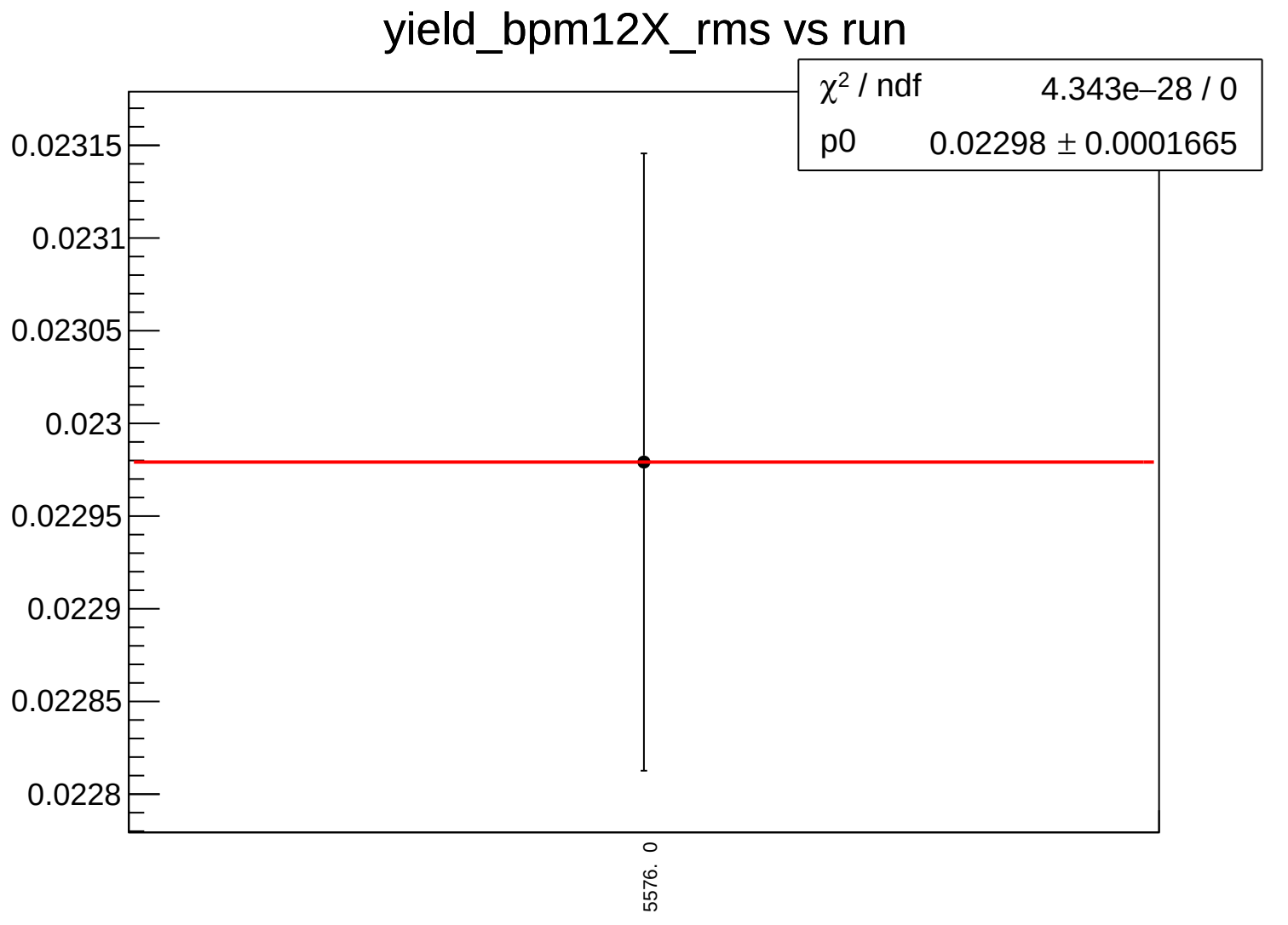

yield_bpm11X_rms vs run
χ² / ndf 0 / 0
p0 0.04055 ± 0.0002938
0.0408
0.0407
0.0406
0.0405
0.0404
0.0403
0.0402
5576. 0

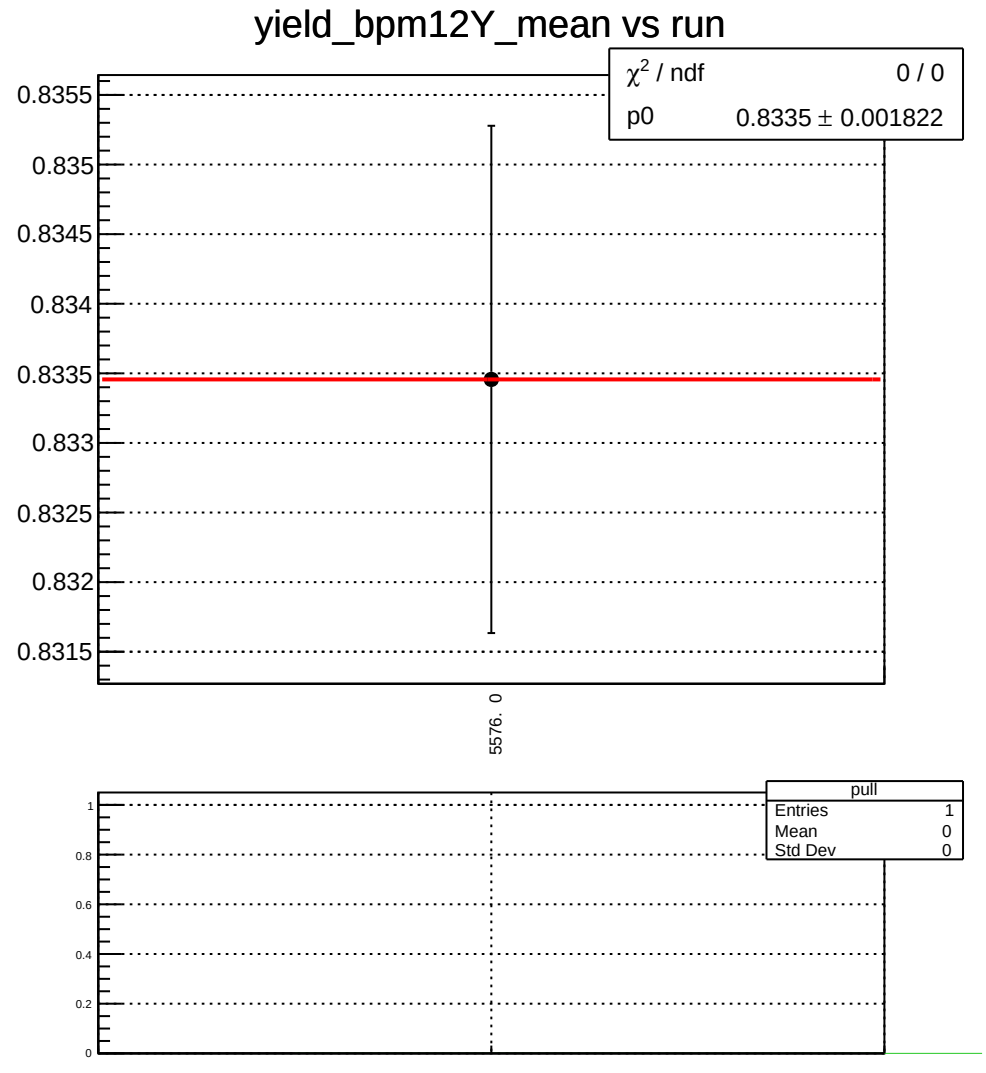

yield_bpm11Y_mean vs run
χ² / ndf 9.36e−29 / 0
p0 −0.2369 ± 0.002869
−0.234
−0.235
−0.236
−0.237
−0.238
−0.239
−0.24
5576. 0
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −9.675e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

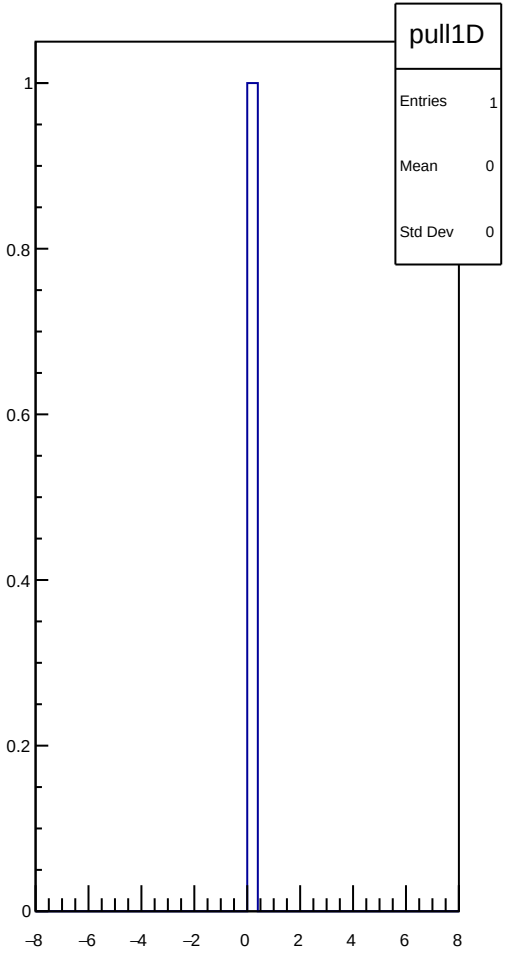

yield_bpm11Y_rms vs run
χ² / ndf 0 / 0
p0 0.28 ± 0.002029
0.282
0.2815
0.281
0.2805
0.28
0.2795
0.279
0.2785
0.278
5576. 0

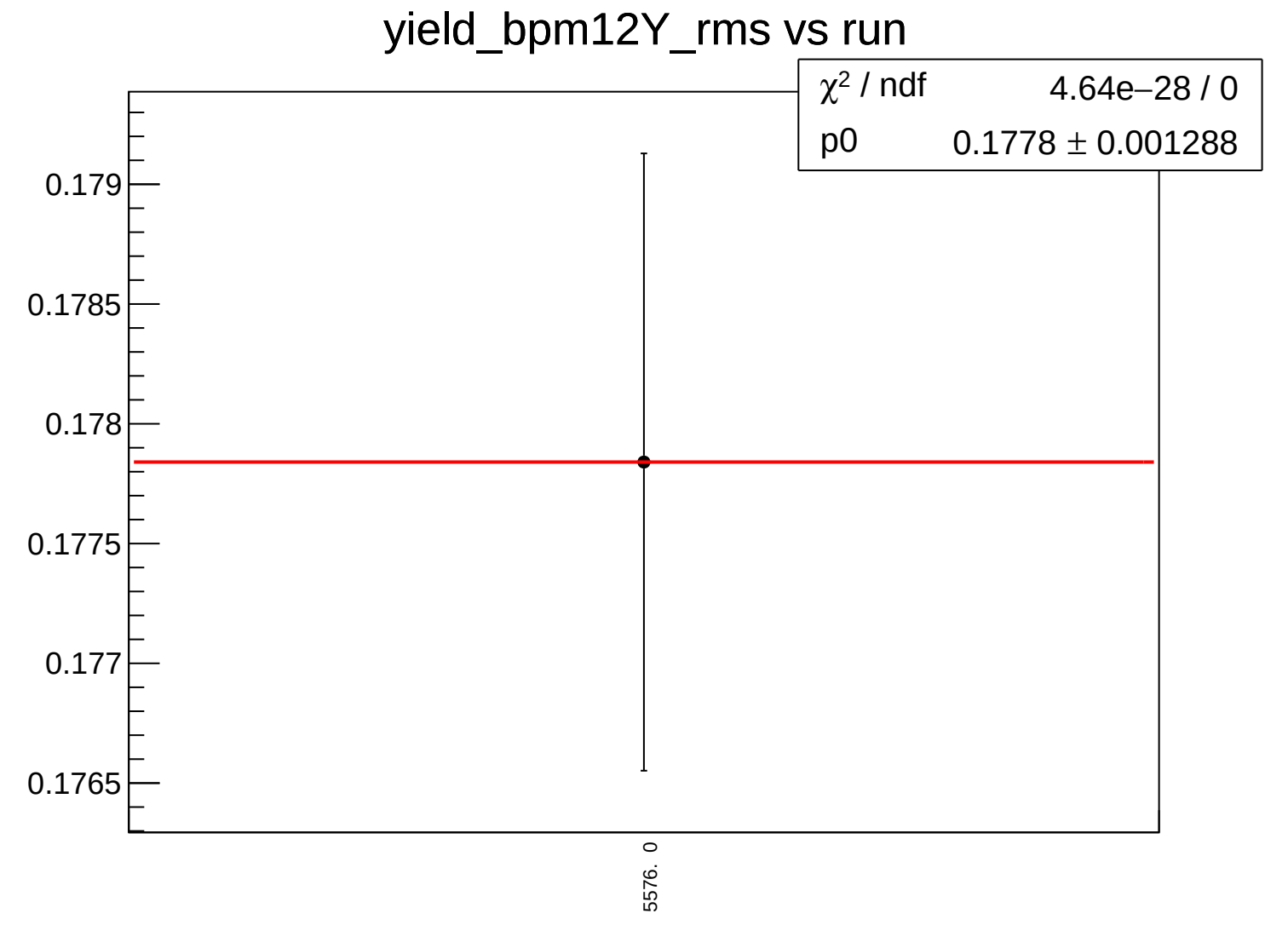

yield_bpm12X_mean vs run
χ² / ndf 0 / 0
p0 −0.9861 ± 0.0002355
−0.9859
−0.986
−0.9861
−0.9862
−0.9863
−0.9864
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

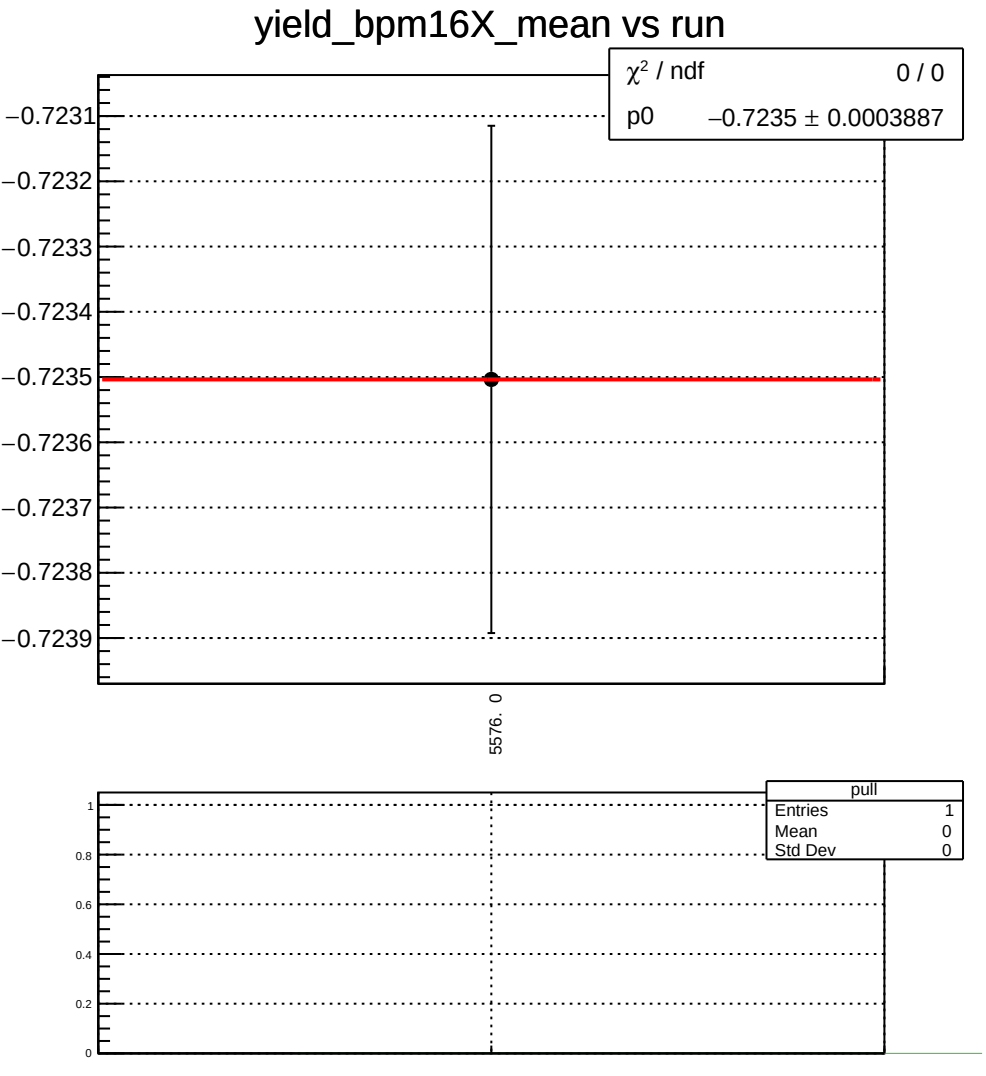

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

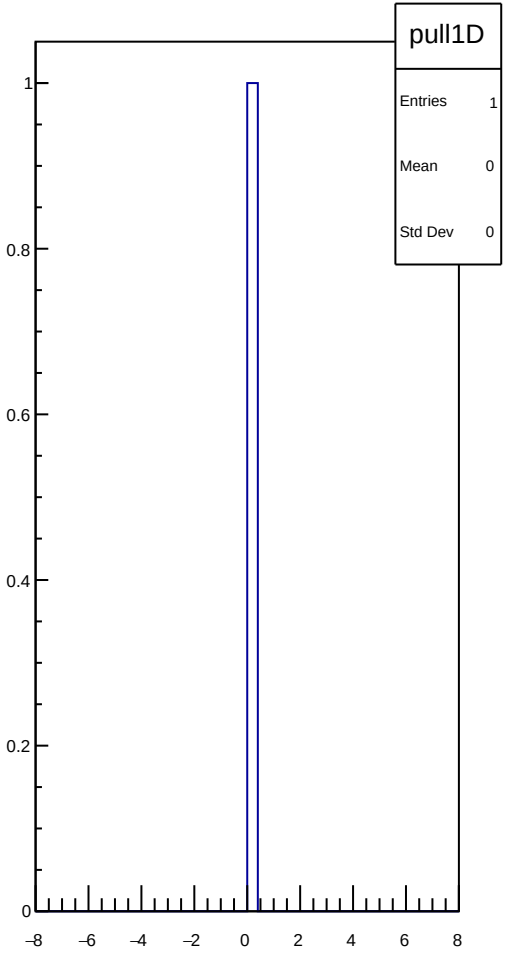

yield_bpm12X_rms vs run
χ² / ndf 4.343e−28 / 0
p0 0.02298 ± 0.0001665
0.02315
0.0231
0.02305
0.023
0.02295
0.0229
0.02285
0.0228
5576. 0


yield_bpm12Y_mean vs run
χ² / ndf 0 / 0
p0 0.8335 ± 0.001822
0.8355
0.835
0.8345
0.834
0.8335
0.833
0.8325
0.832
0.8315
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


yield_bpm12Y_rms vs run
χ² / ndf 4.64e−28 / 0
p0 0.1778 ± 0.001288
0.179
0.1785
0.178
0.1775
0.177
0.1765
5576. 0


yield_bpm16X_mean vs run
χ² / ndf 0 / 0
p0 −0.7235 ± 0.0003887
−0.7231
−0.7232
−0.7233
−0.7234
−0.7235
−0.7236
−0.7237
−0.7238
−0.7239
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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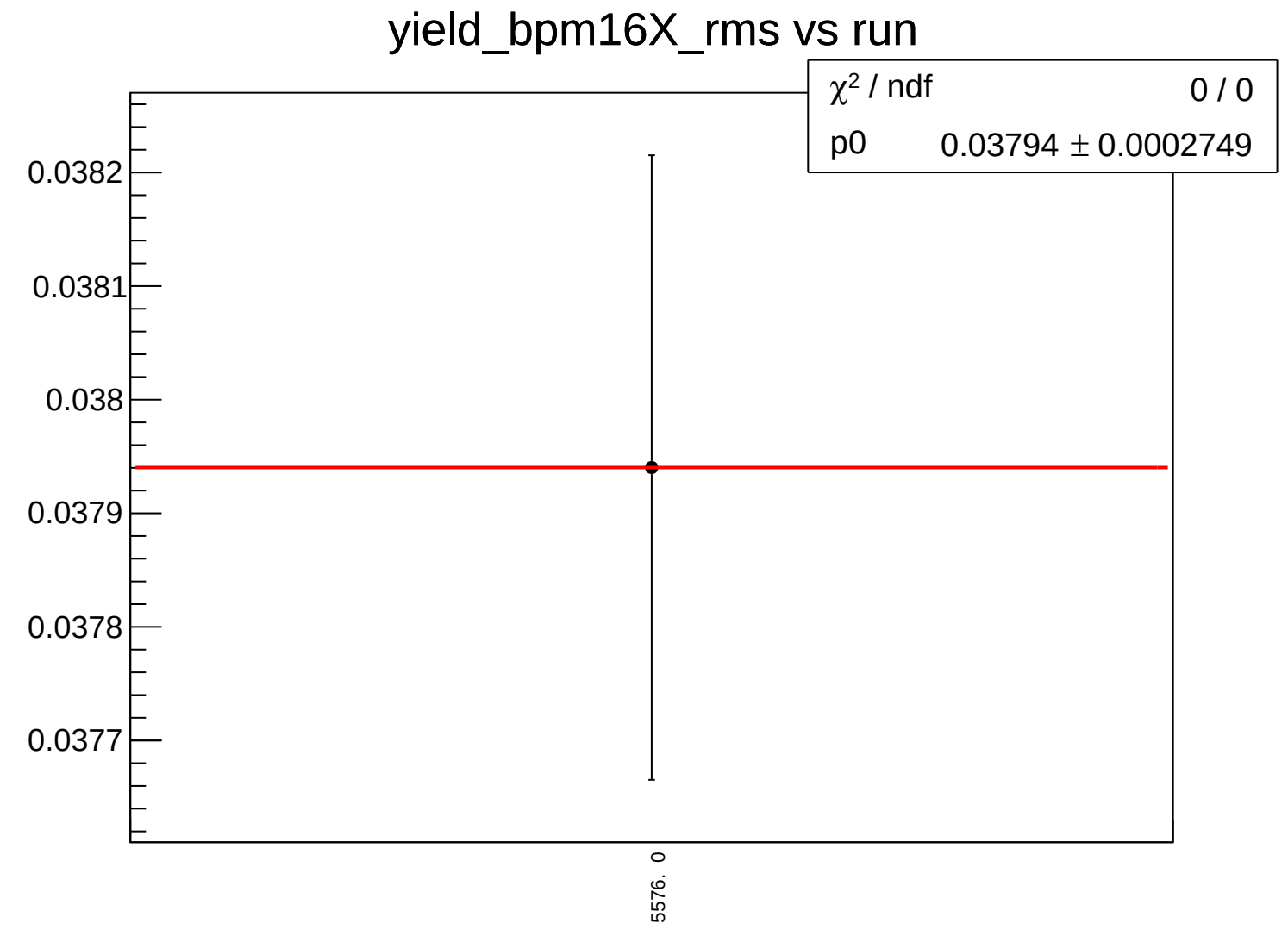
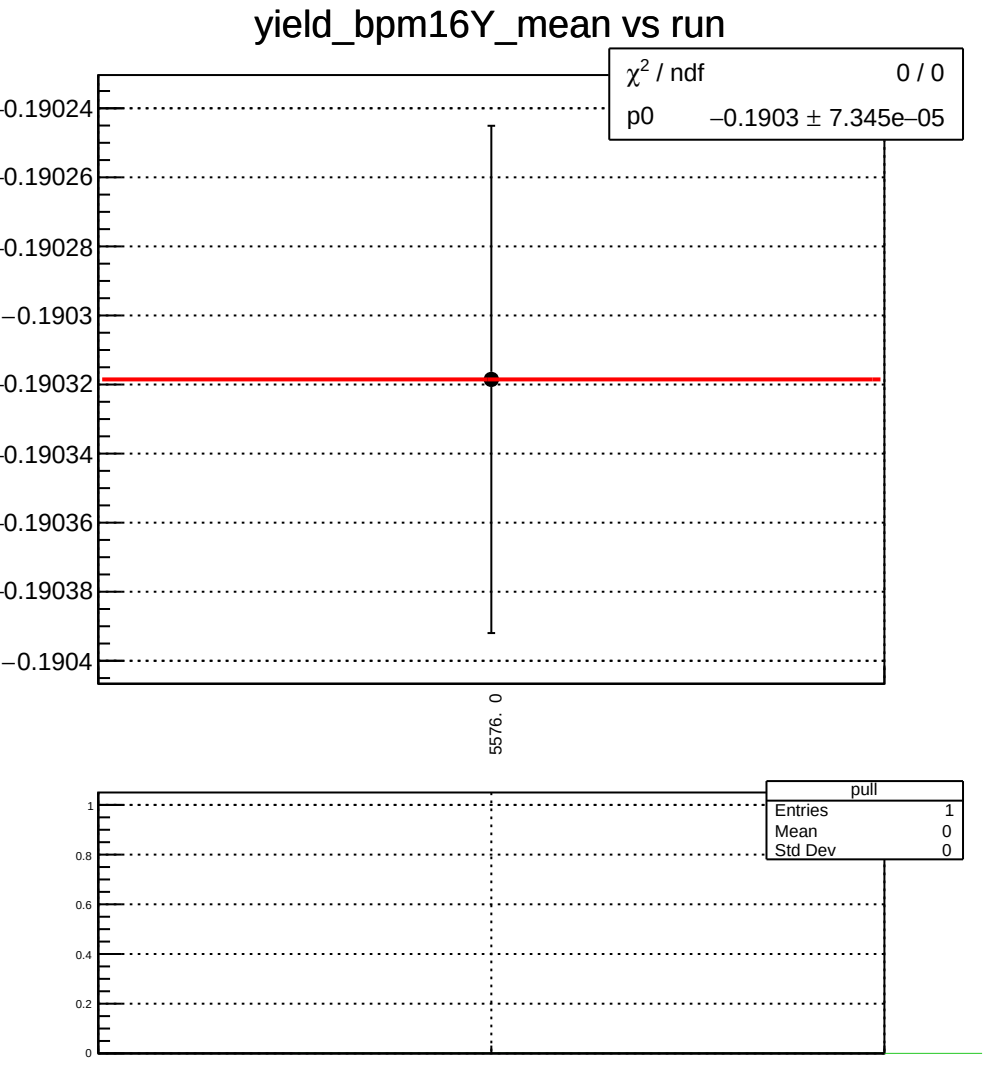
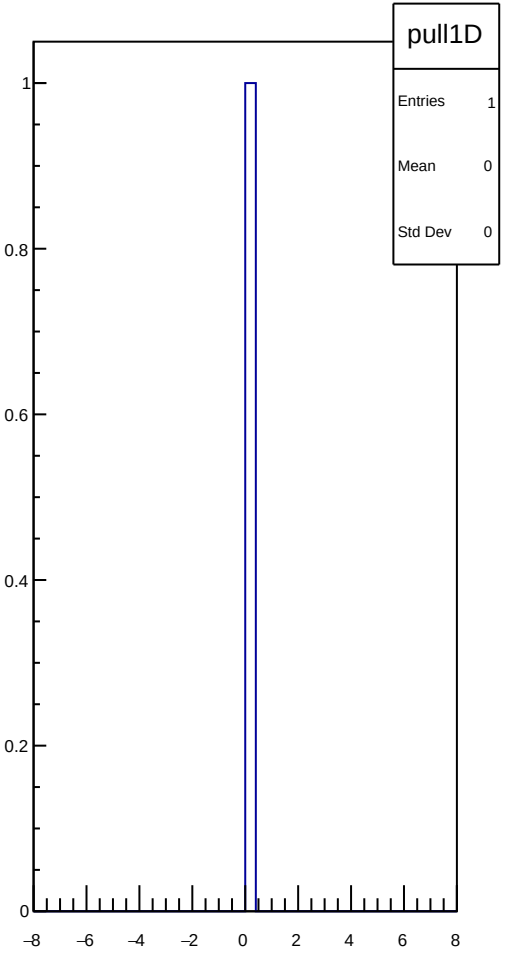
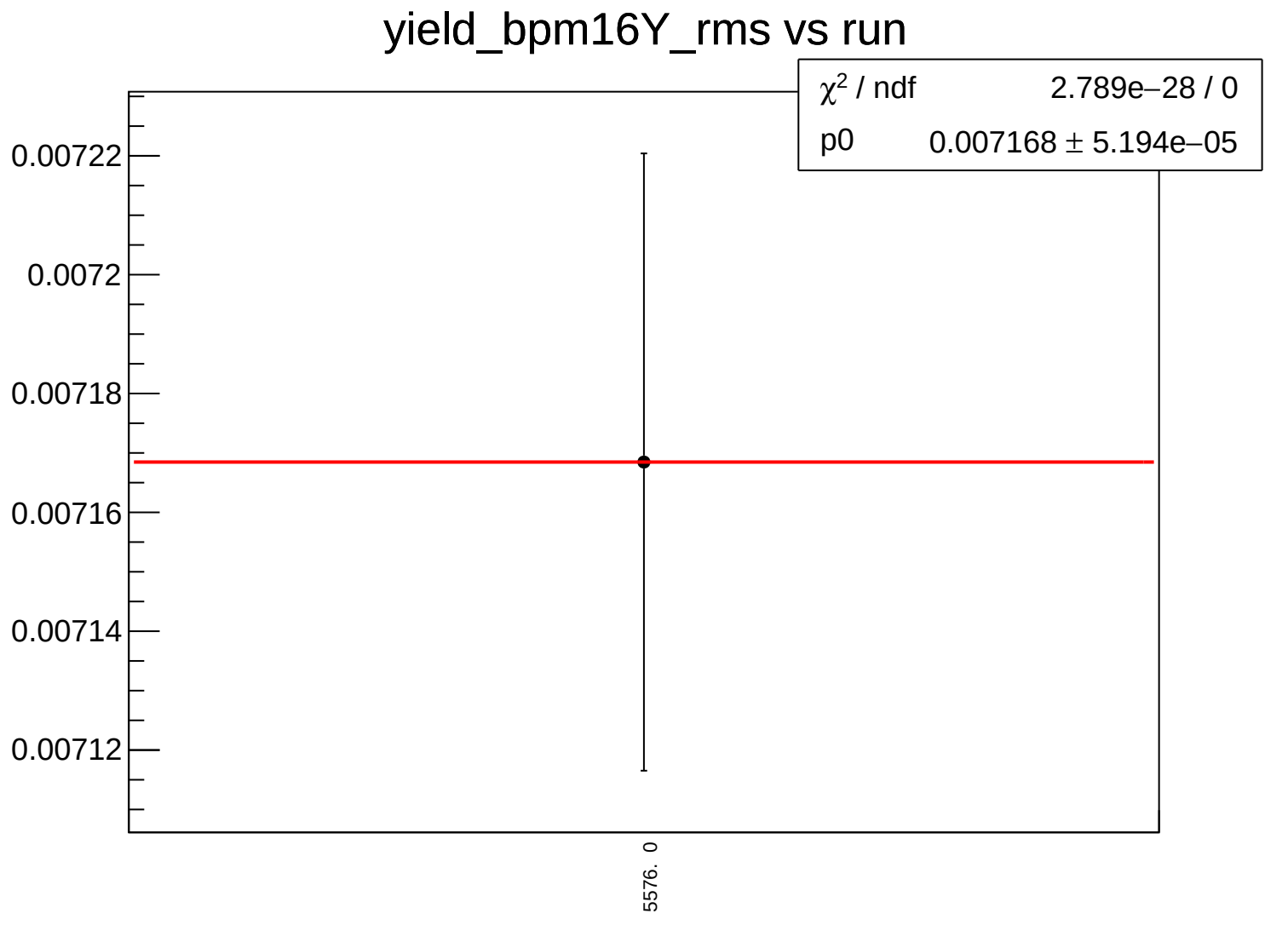
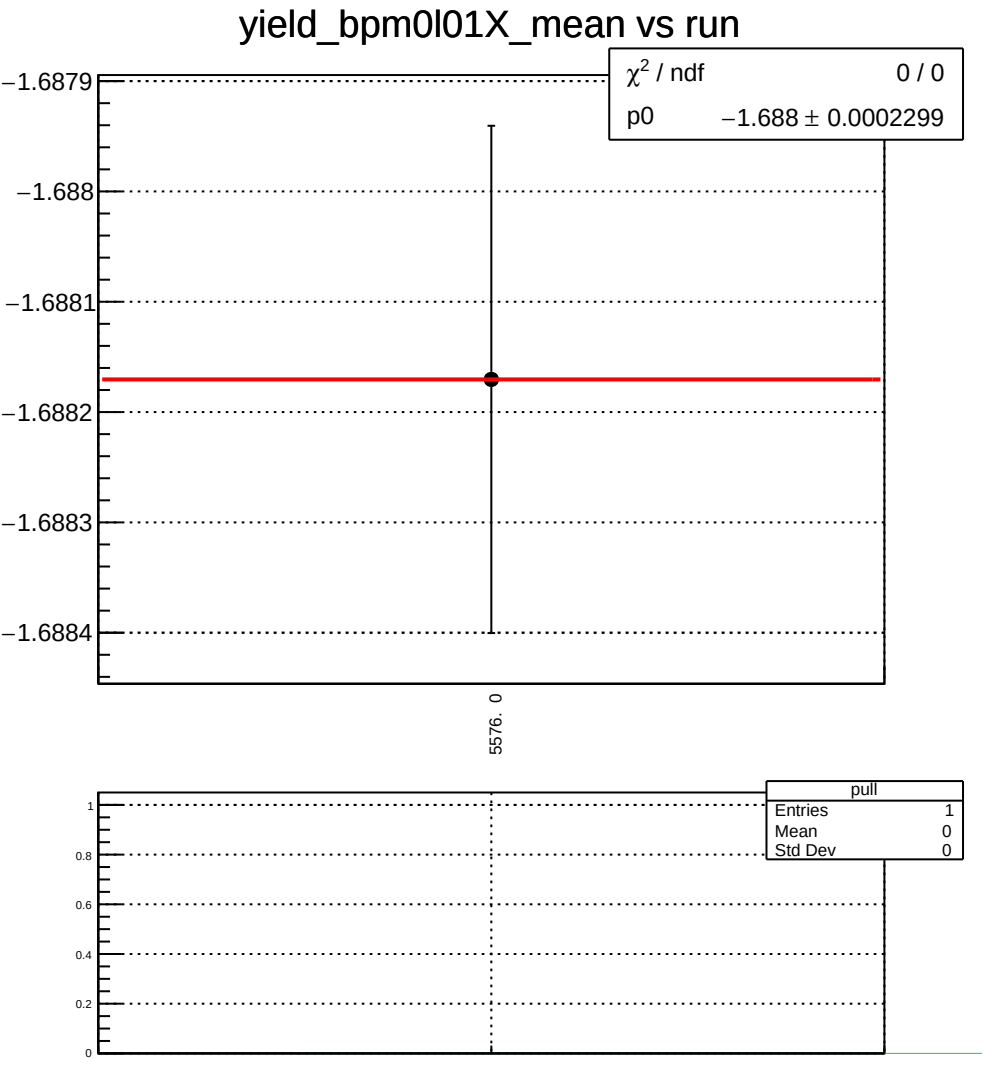
2
4
6
8

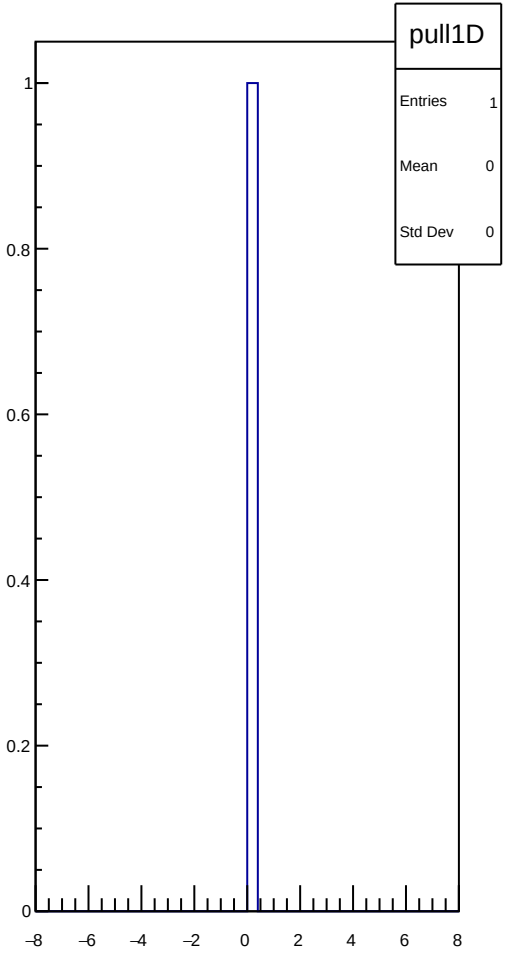

yield_bpm16X_rms vs run
χ² / ndf 0 / 0
p0 0.03794 ± 0.0002749
0.0382
0.0381
0.038
0.0379
0.0378
0.0377
5576. 0

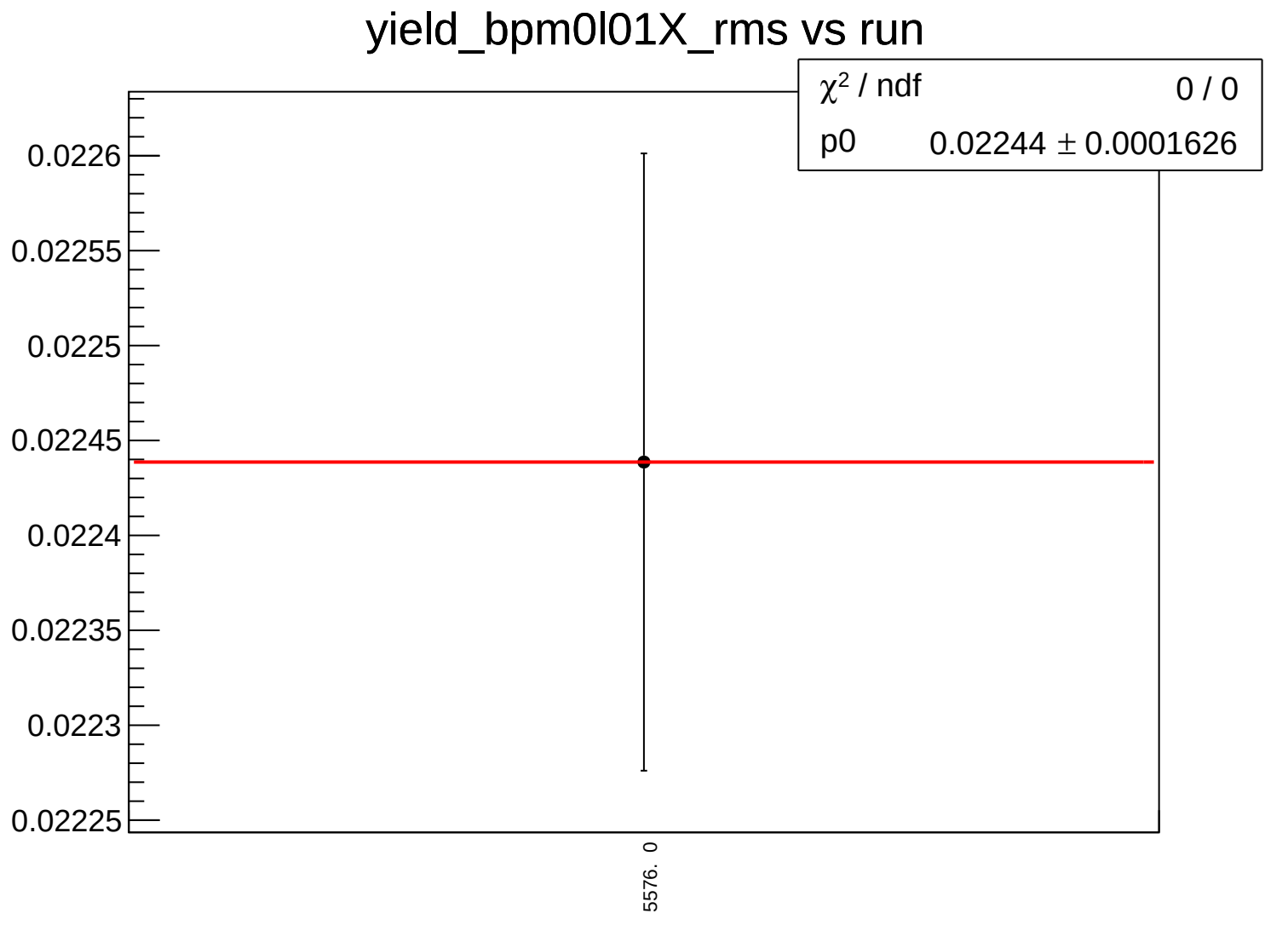

yield_bpm16Y_mean vs run
χ² / ndf 0 / 0
p0 −0.1903 ± 7.345e−05
−0.19024
−0.19026
−0.19028
−0.1903
−0.19032
−0.19034
−0.19036
−0.19038
−0.1904
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

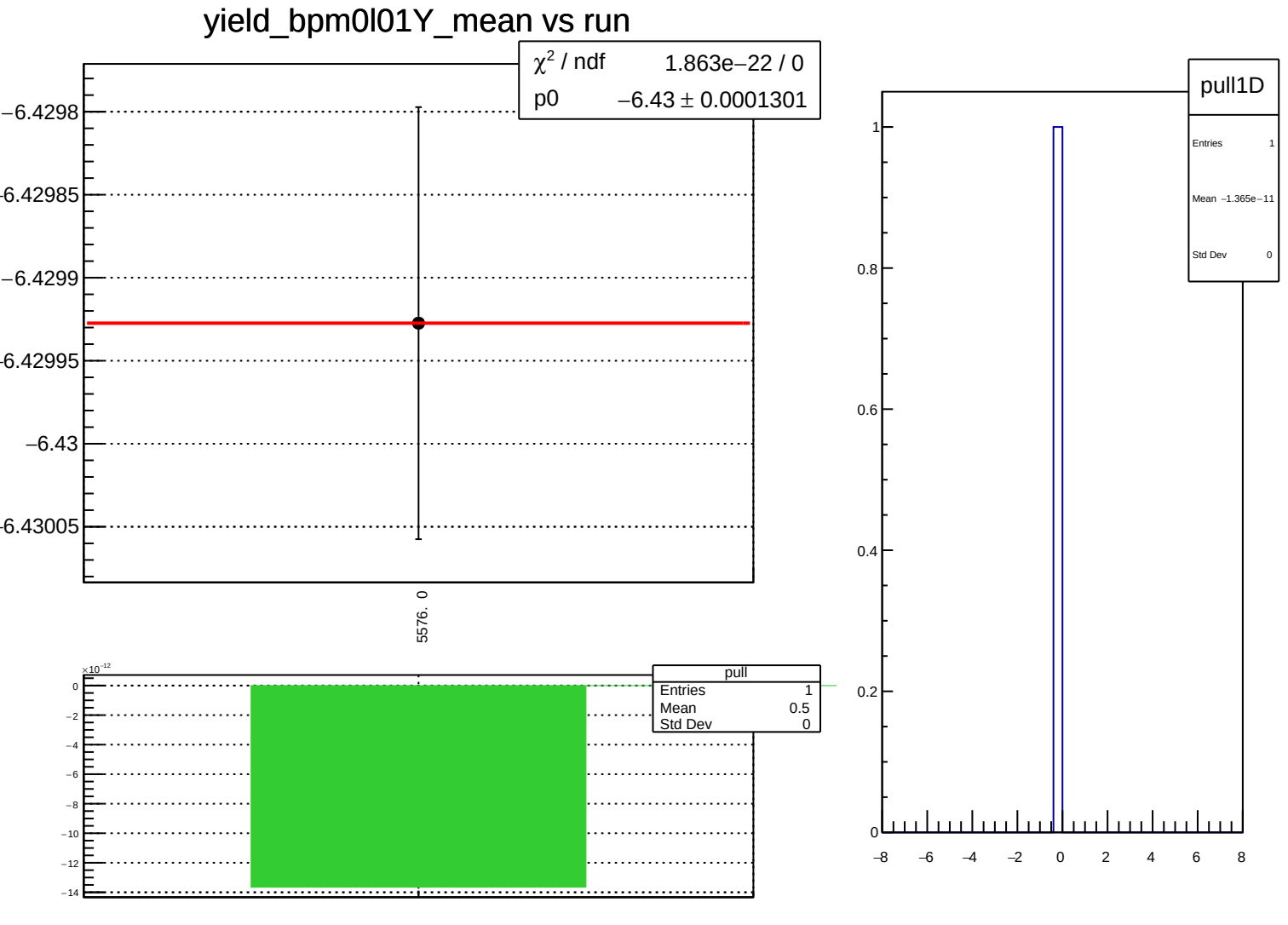

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

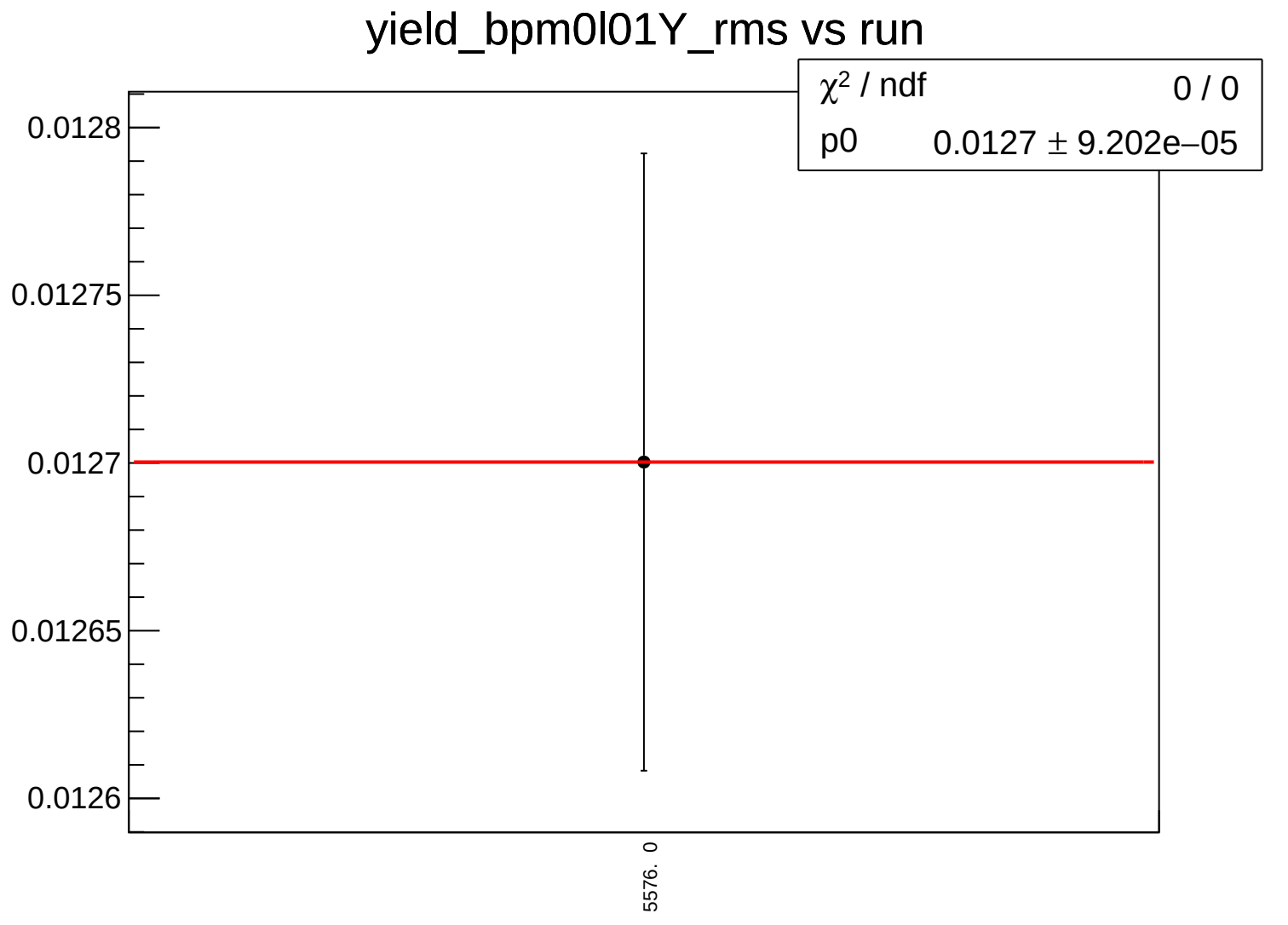

yield_bpm16Y_rms vs run
χ² / ndf 2.789e−28 / 0
p0 0.007168 ± 5.194e−05
0.00722
0.0072
0.00718
0.00716
0.00714
0.00712
5576. 0

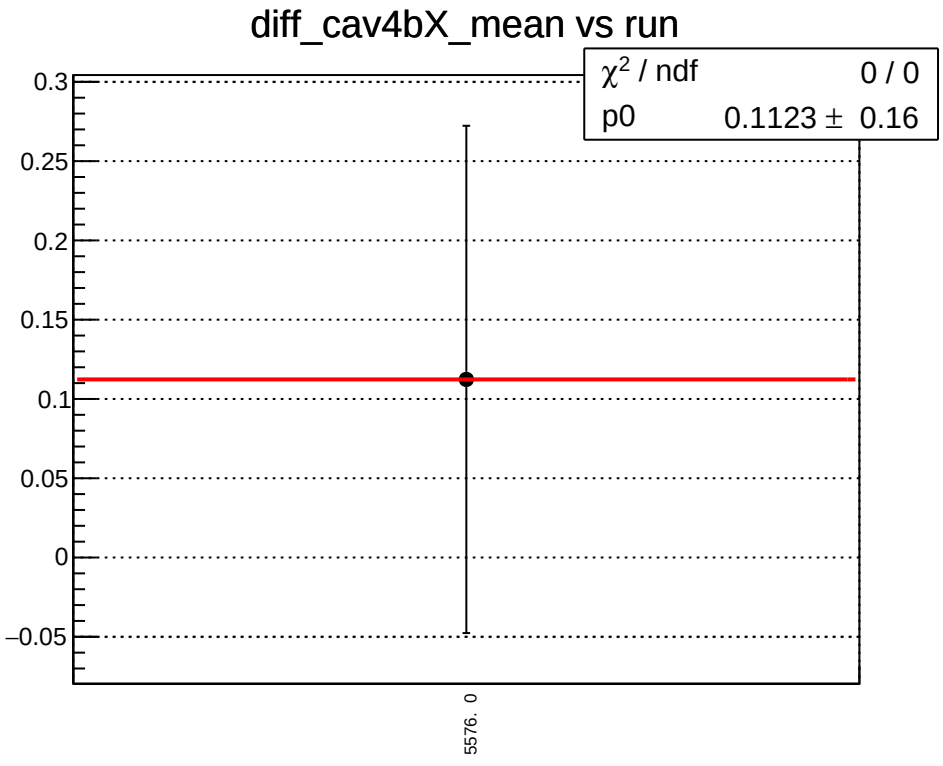

yield_bpm0l01X_mean vs run
χ² / ndf 0 / 0
p0 −1.688 ± 0.0002299
−1.6879
−1.688
−1.6881
−1.6882
−1.6883
−1.6884
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

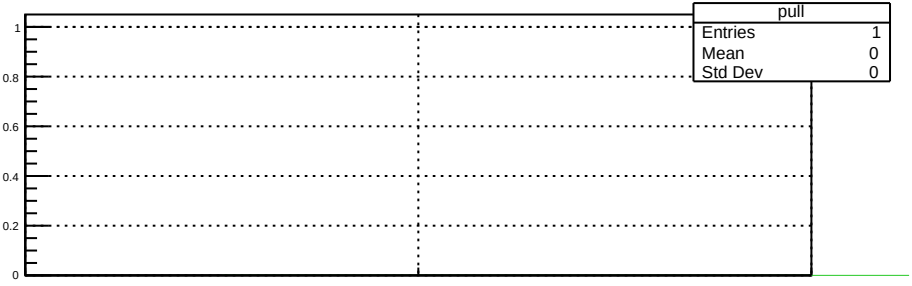

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

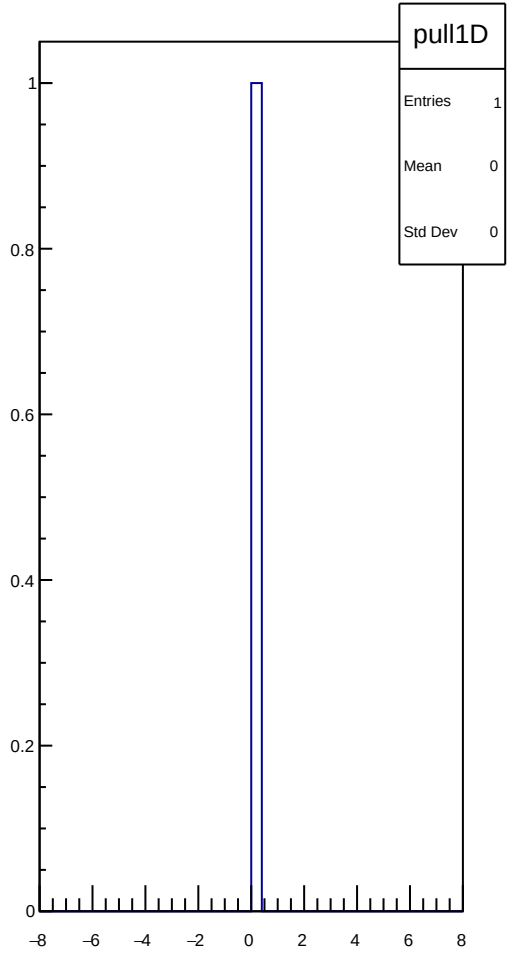

yield_bpm0l01X_rms vs run
χ² / ndf 0 / 0
p0 0.02244 ± 0.0001626
0.0226
0.02255
0.0225
0.02245
0.0224
0.02235
0.0223
0.02225
5576. 0

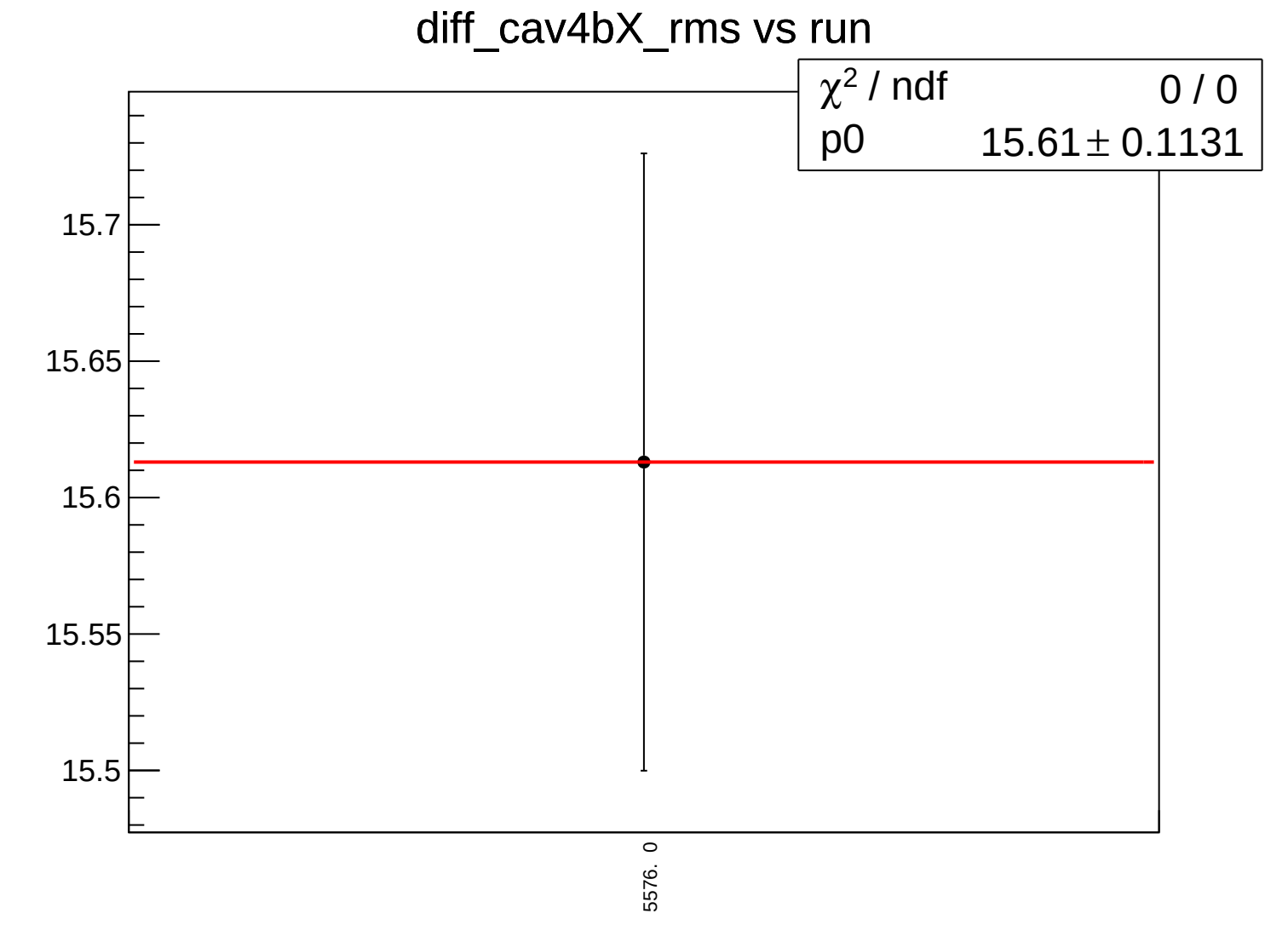

yield_bpm0l01Y_mean vs run
χ² / ndf 1.863e−22 / 0
p0 −6.43 ± 0.0001301
−6.4298
−6.42985
−6.4299
−6.42995
−6.43
−6.43005
5576. 0
×10⁻¹²
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.365e−11
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

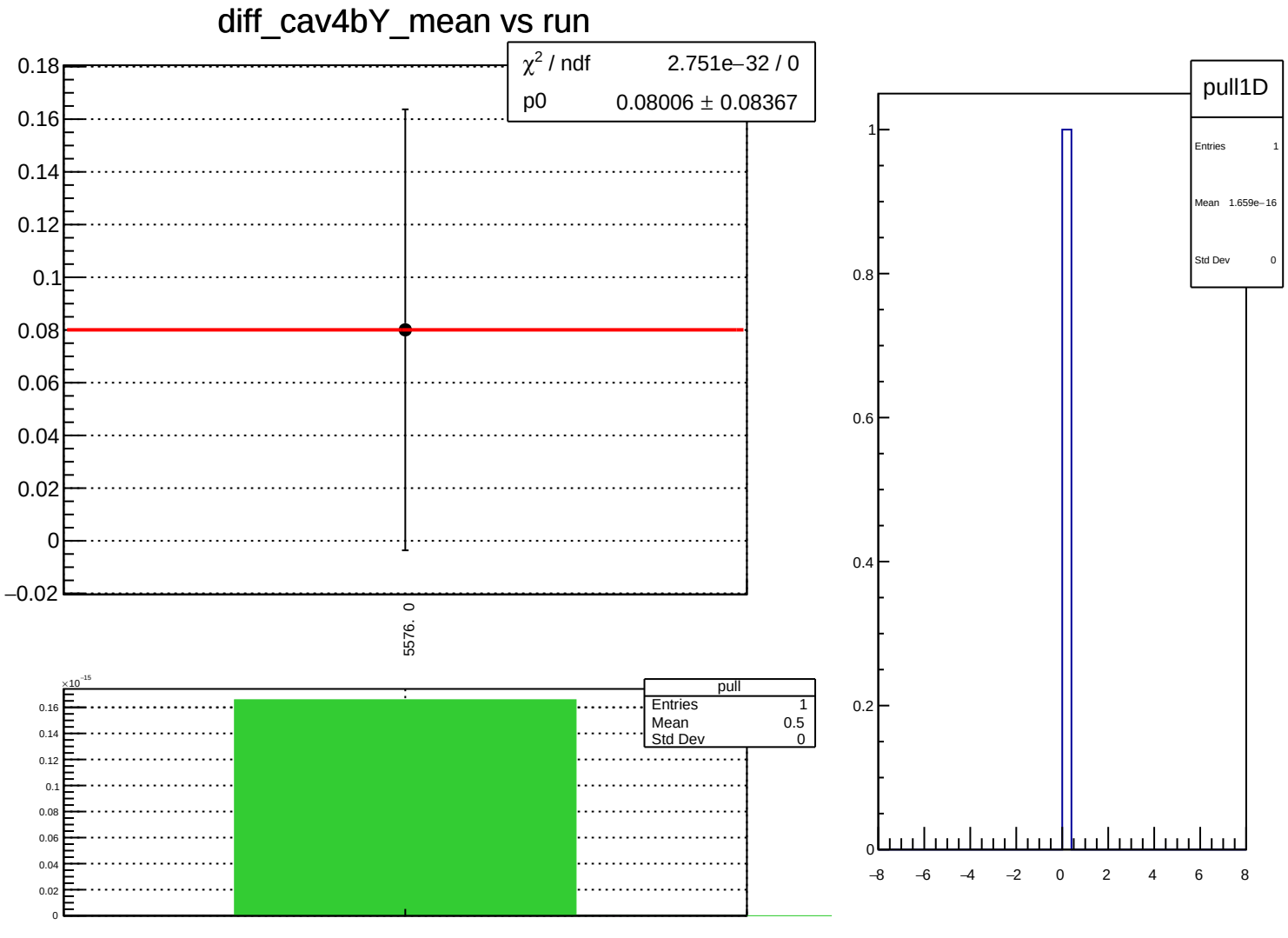

yield_bpm0l01Y_rms vs run
χ² / ndf 0 / 0
p0 0.0127 ± 9.202e–05
0.0128
0.01275
0.0127
0.01265
0.0126
5576. 0

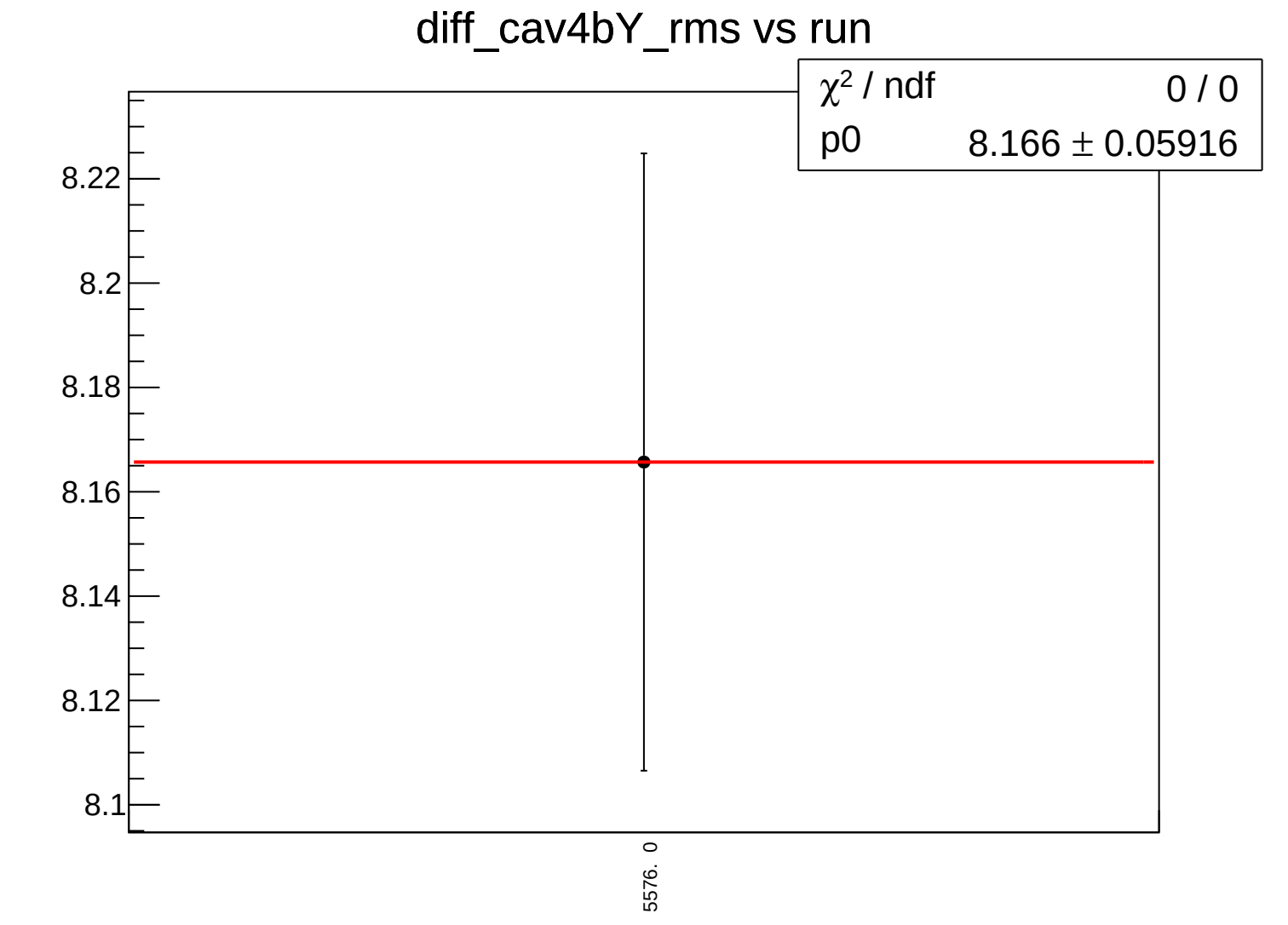

diff_cav4bX_mean vs run
χ² / ndf 0 / 0
p0 0.1123 ± 0.16
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
5576. 0

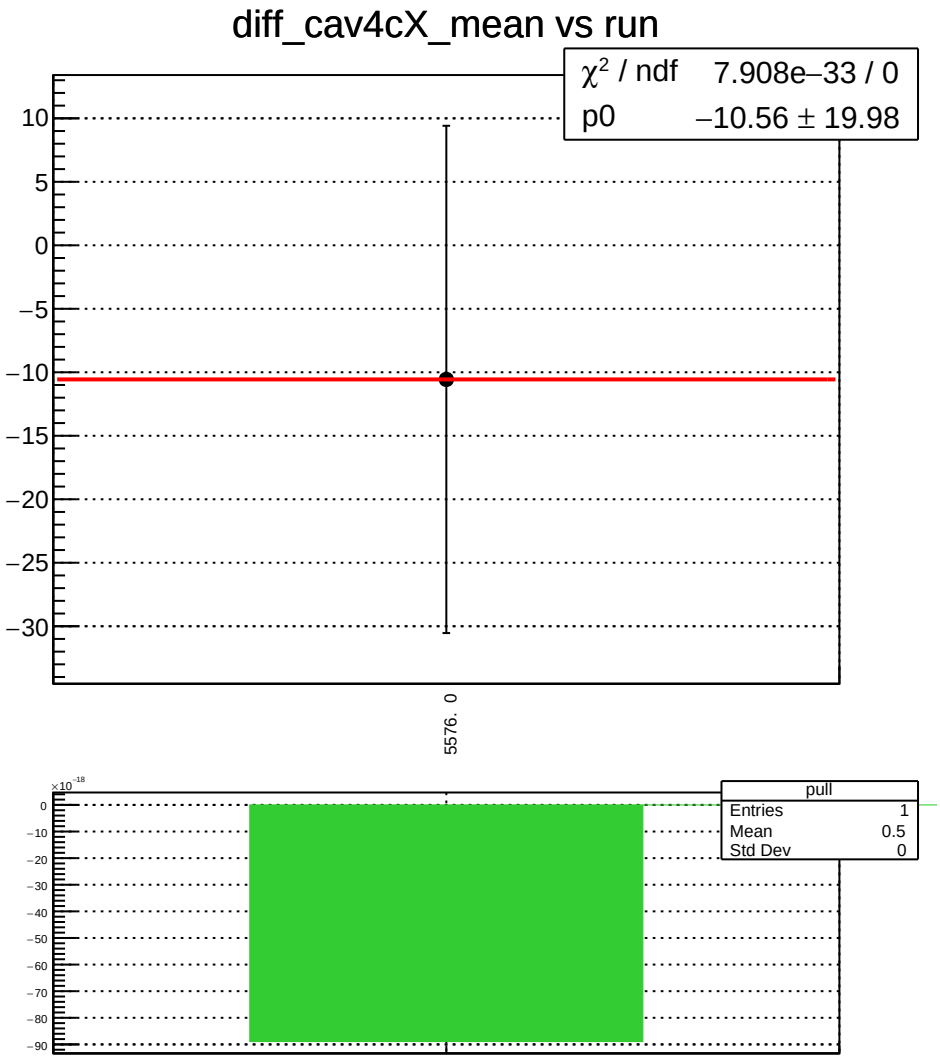

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

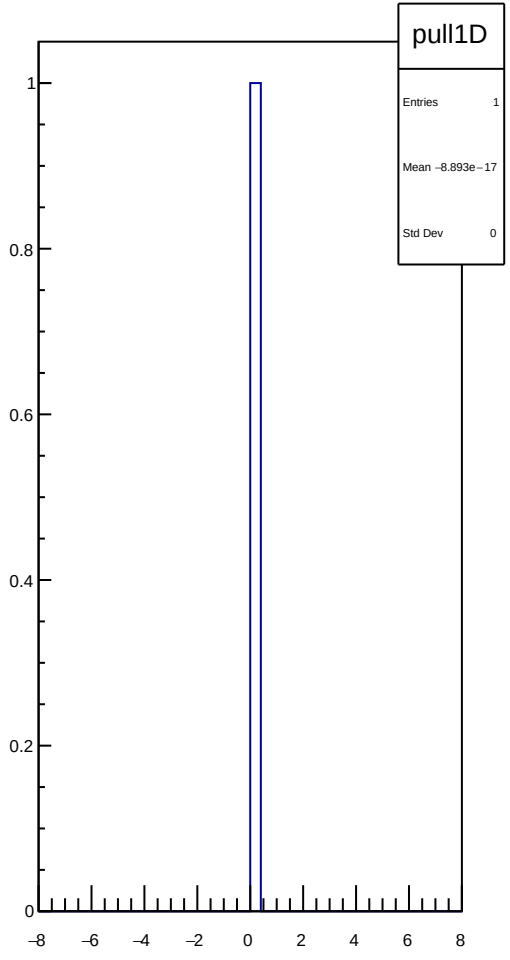

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

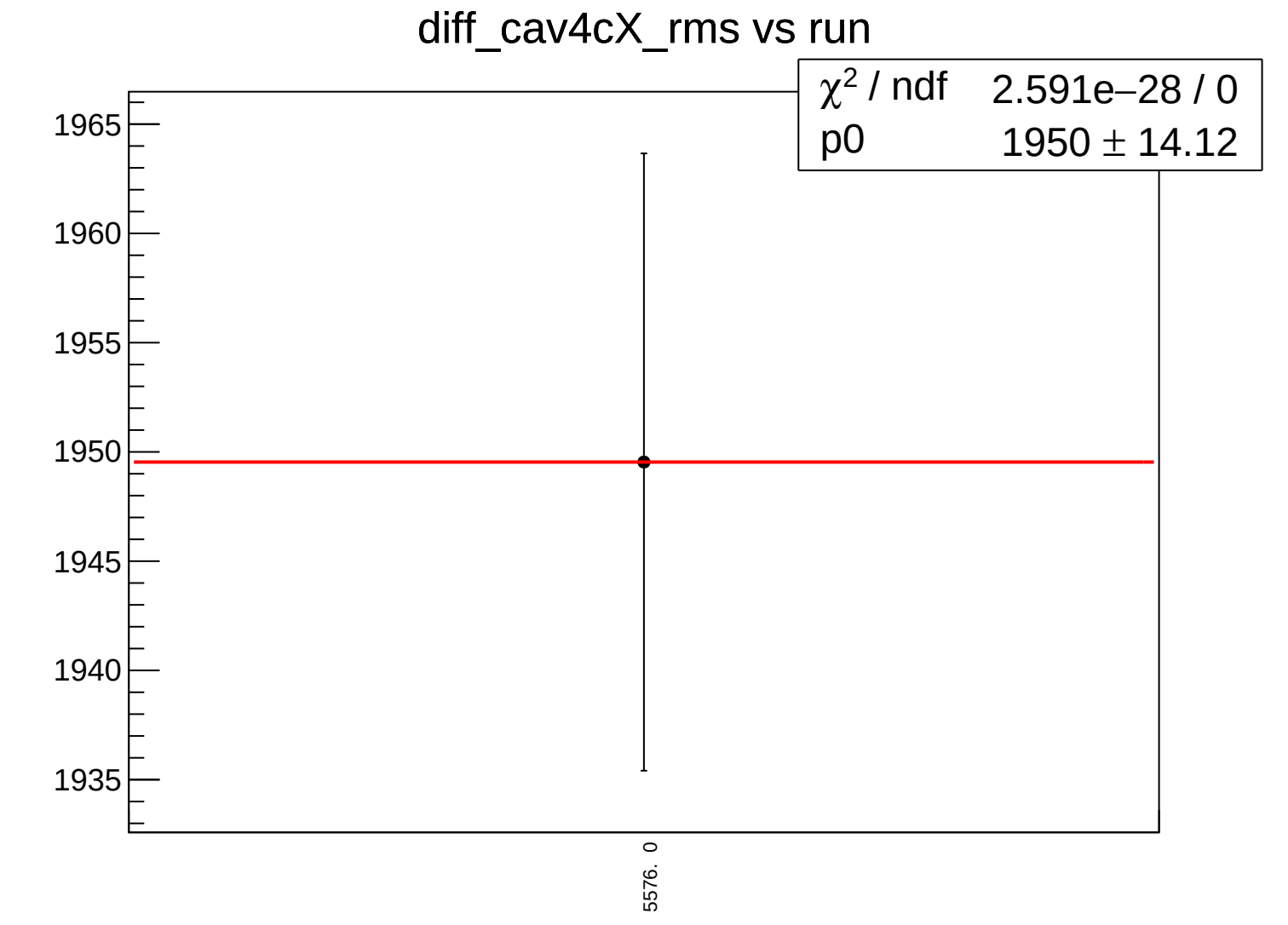

diff_cav4bX_rms vs run
χ² / ndf 0 / 0
p0 15.61 ± 0.1131
15.7
15.65
15.6
15.55
15.5
5576. 0

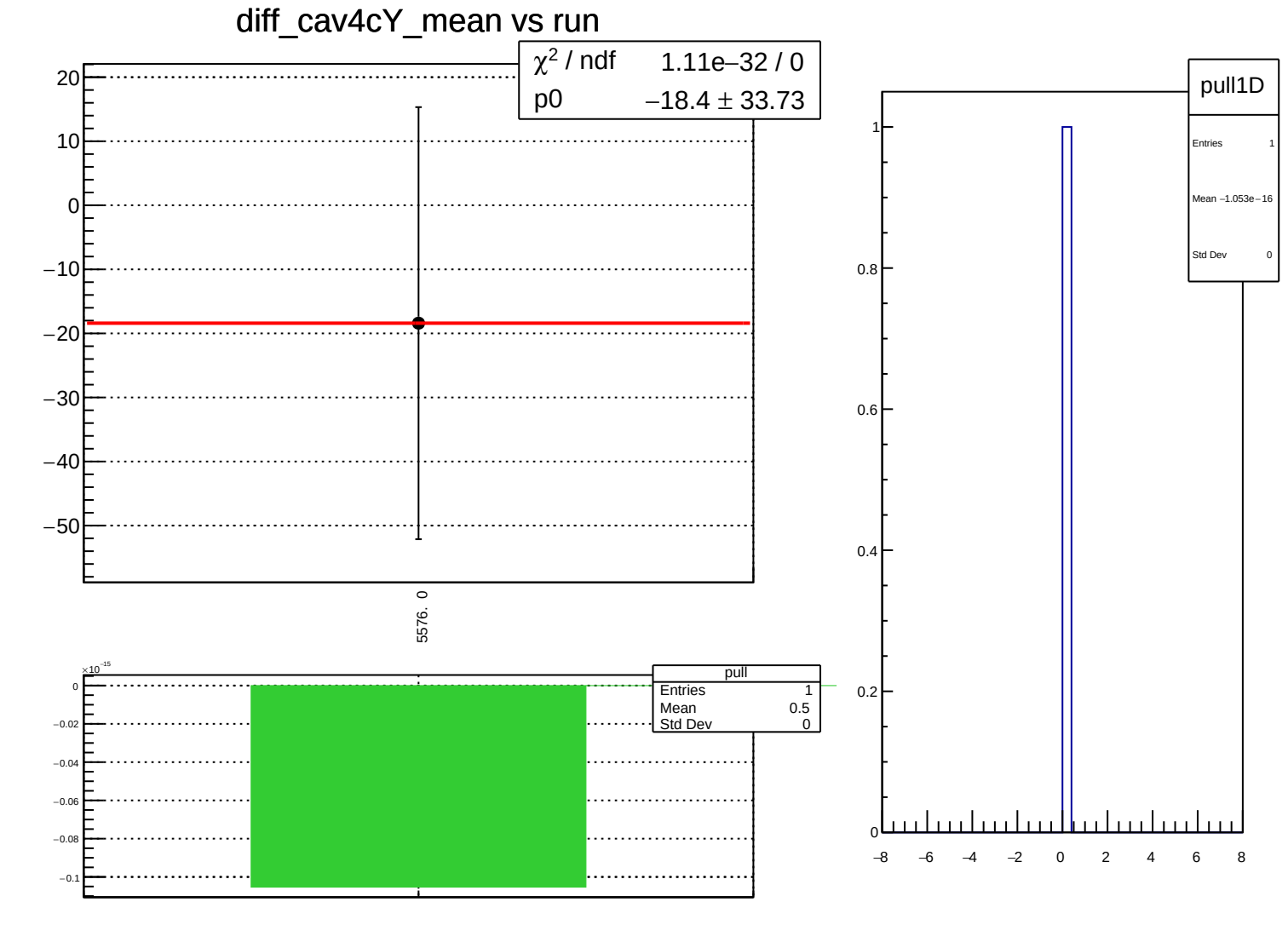

diff_cav4bY_mean vs run
χ² / ndf 2.751e−32 / 0
p0 0.08006 ± 0.08367
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
5576. 0
×10⁻¹⁵
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 1.659e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

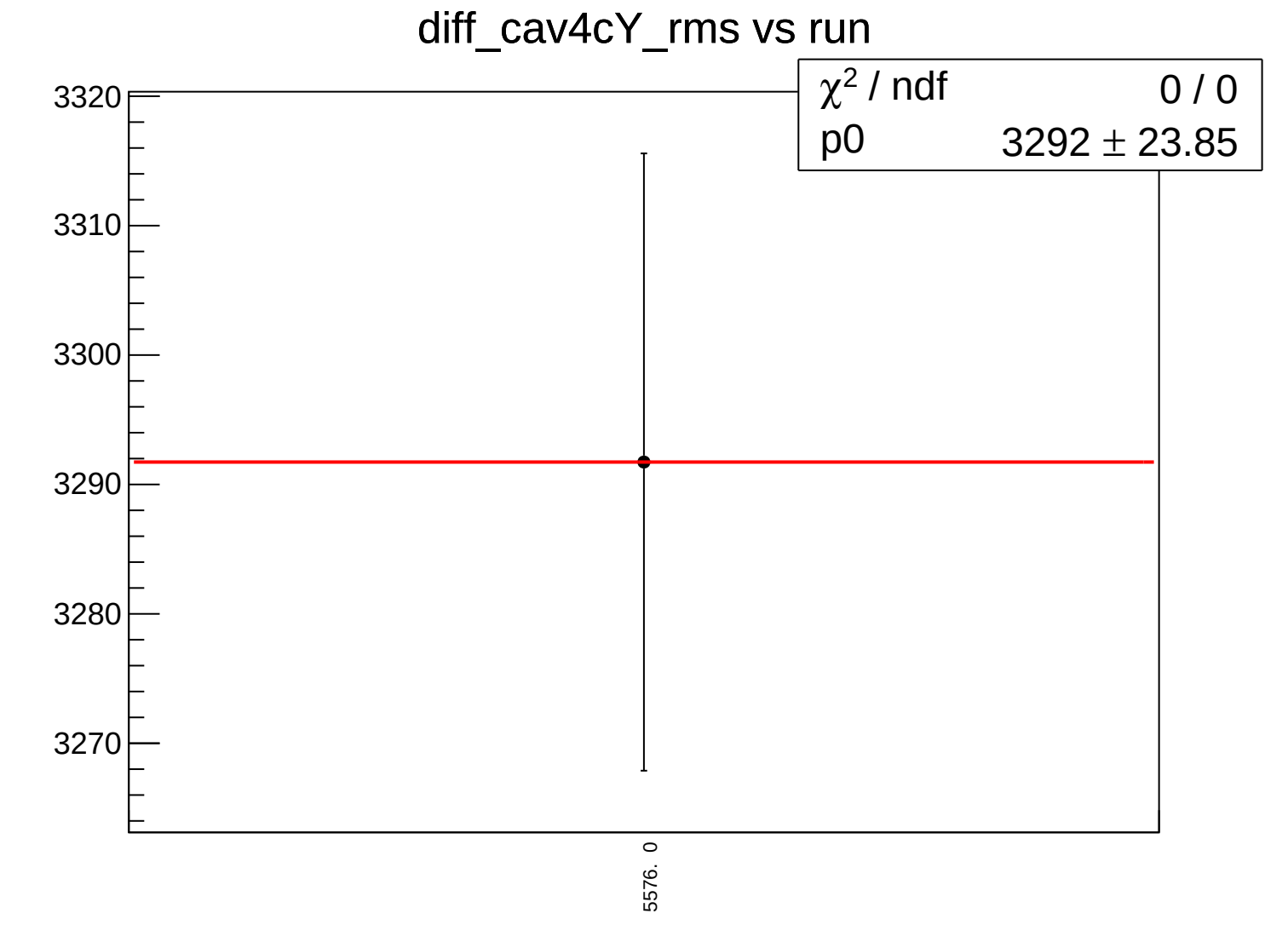

diff_cav4bY_rms vs run
χ² / ndf 0 / 0
p0 8.166 ± 0.05916
8.22
8.2
8.18
8.16
8.14
8.12
8.1
5576. 0

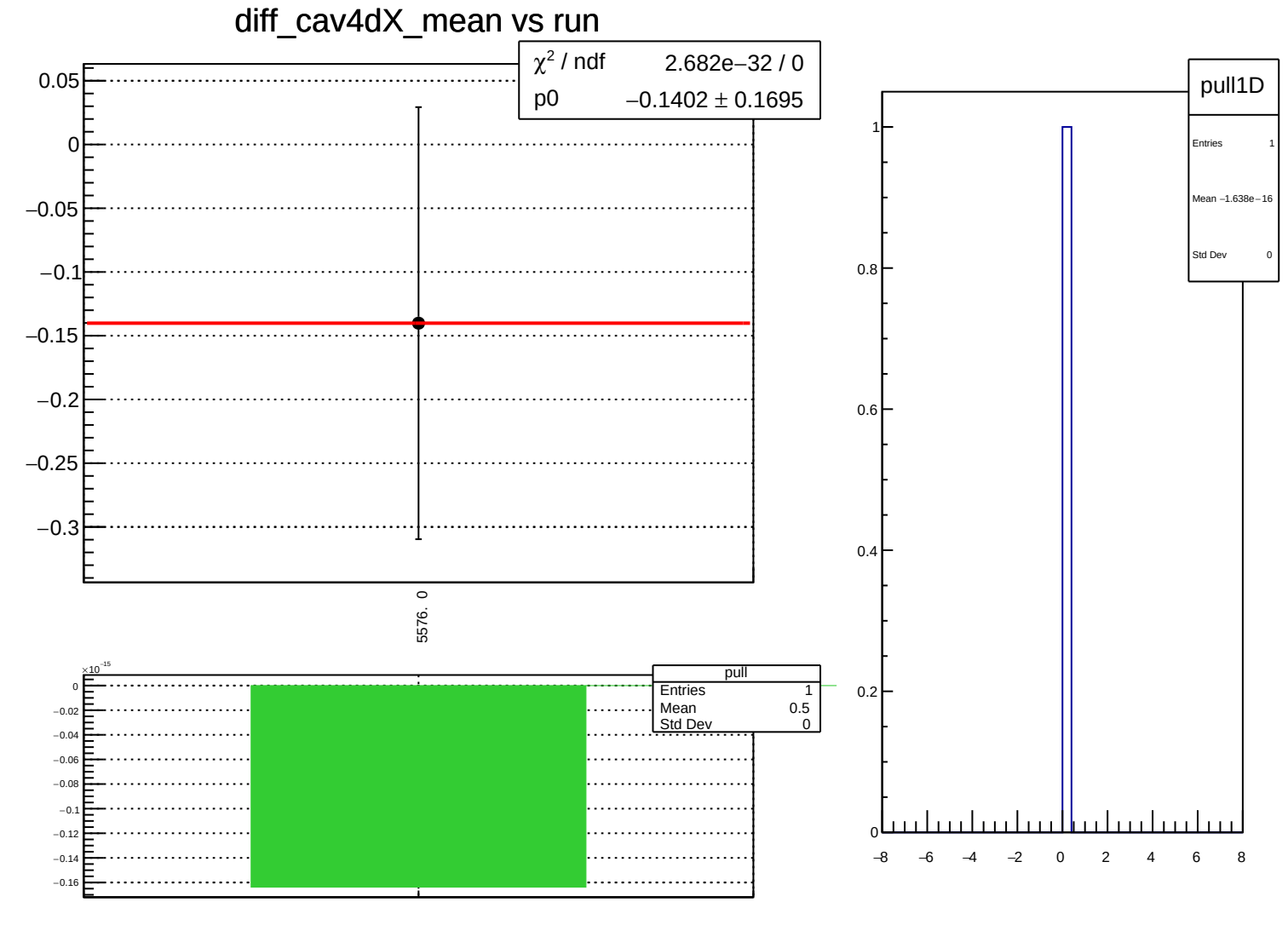

diff_cav4cX_mean vs run
χ² / ndf 7.908e−33 / 0
p0 −10.56 ± 19.98
10
5
0
−5
−10
−15
−20
−25
−30
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean −8.893e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4cX_rms vs run
χ² / ndf 2.591e−28 / 0
p0 1950 ± 14.12
1965
1960
1955
1950
1945
1940
1935
5576. 0


diff_cav4cY_mean vs run
χ^2 / ndf 1.11e−32 / 0
p0 −18.4 ± 33.73
20
10
0
−10
−20
−30
−40
−50
5576. 0
×10^-15
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.053e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4cY_rms vs run
χ² / ndf 0 / 0
p0 3292 ± 23.85
3320
3310
3300
3290
3280
3270
5576. 0


diff_cav4dX_mean vs run
χ² / ndf 2.682e−32 / 0
p0 −0.1402 ± 0.1695
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.638e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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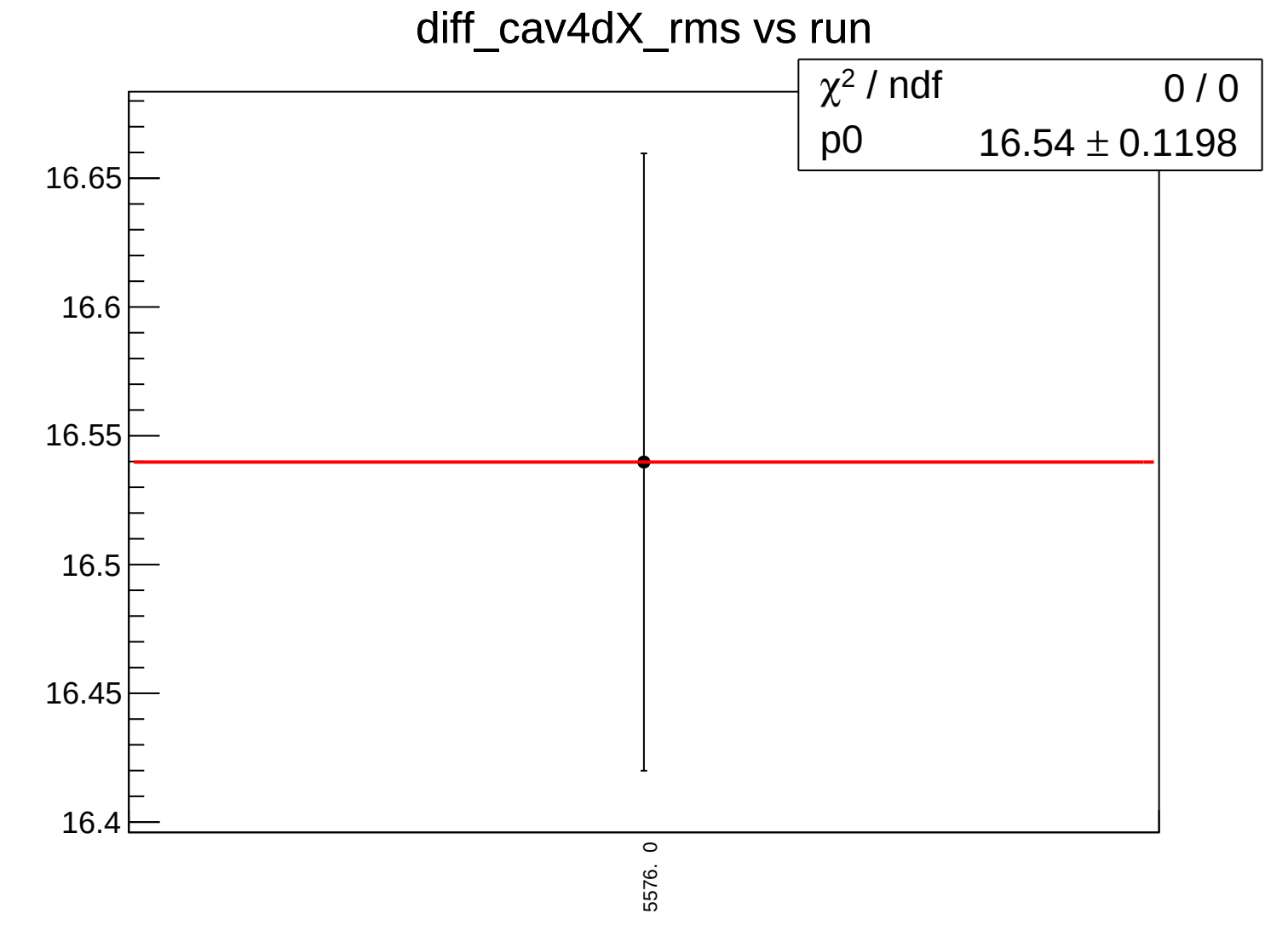
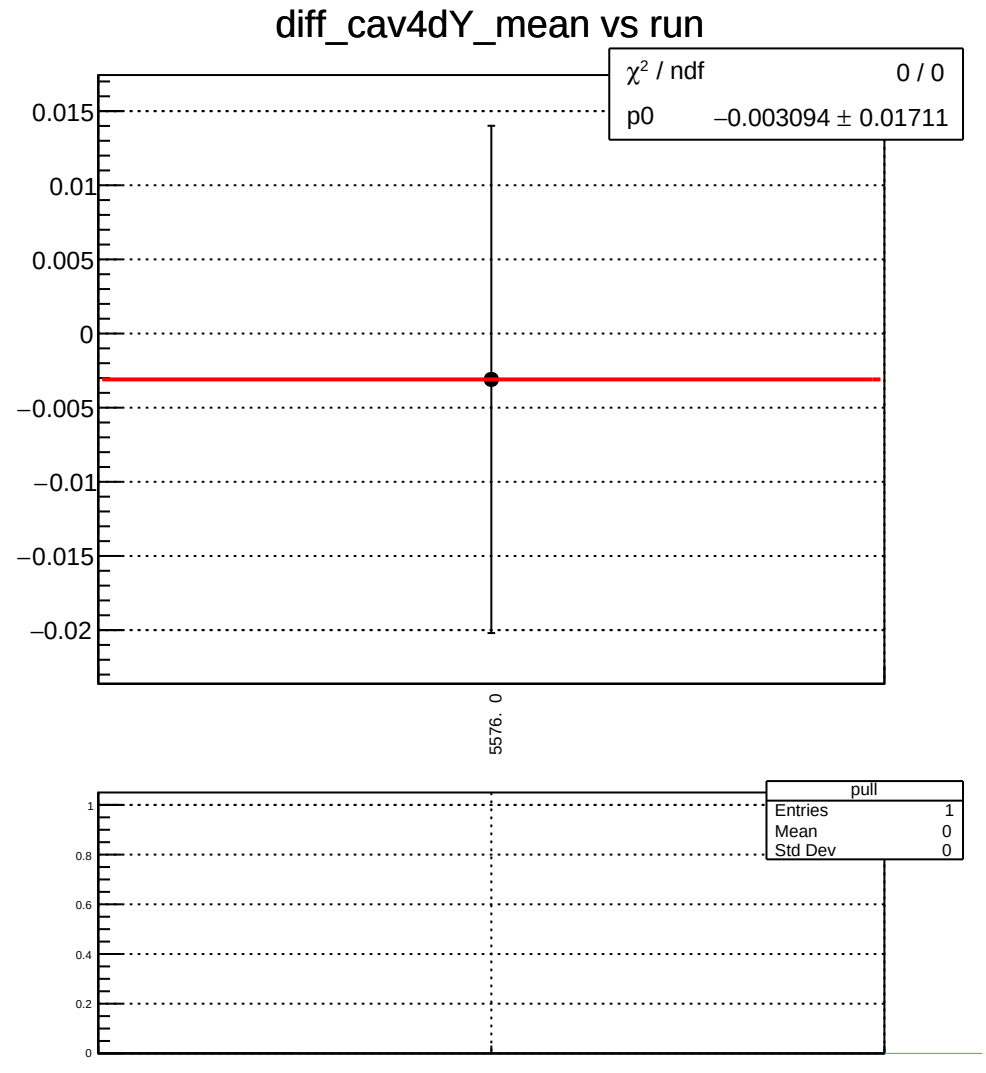
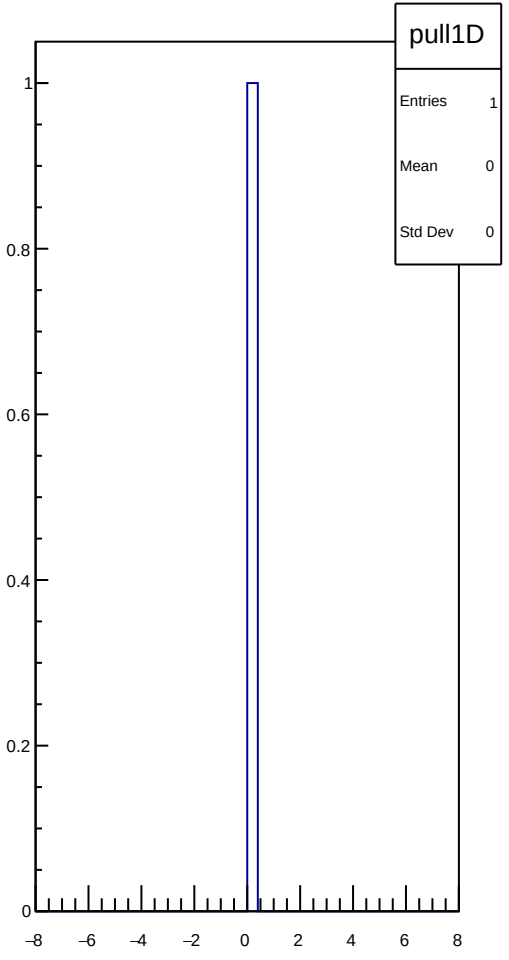
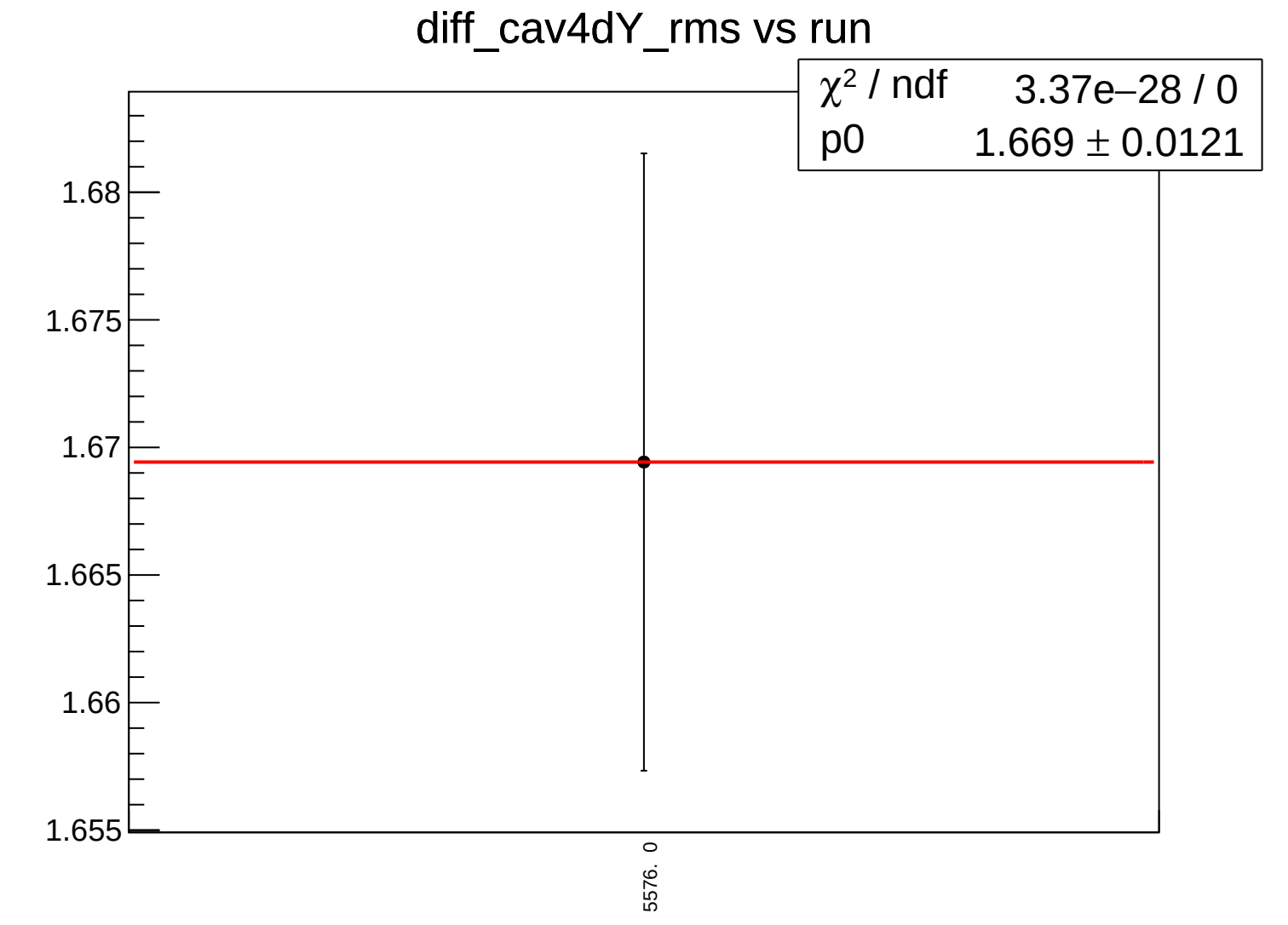
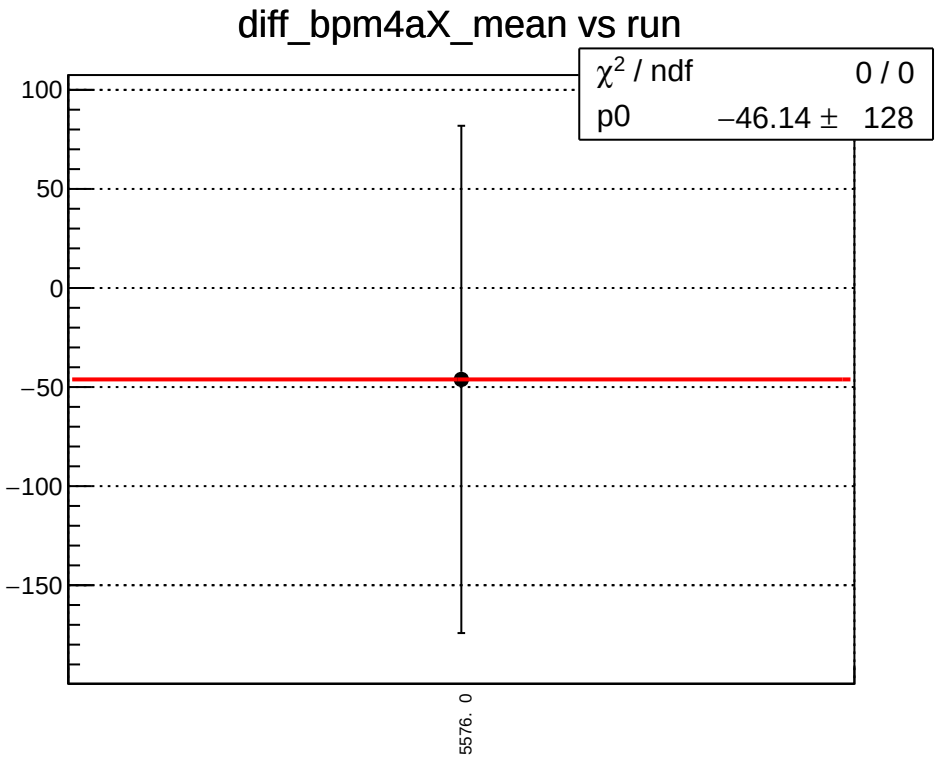
0
2
4
6
8

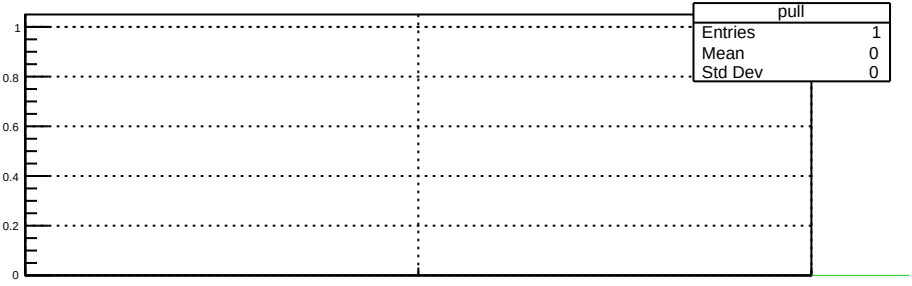

diff_cav4dX_rms vs run
χ² / ndf 0 / 0
p0 16.54 ± 0.1198
16.65
16.6
16.55
16.5
16.45
16.4
5576. 0

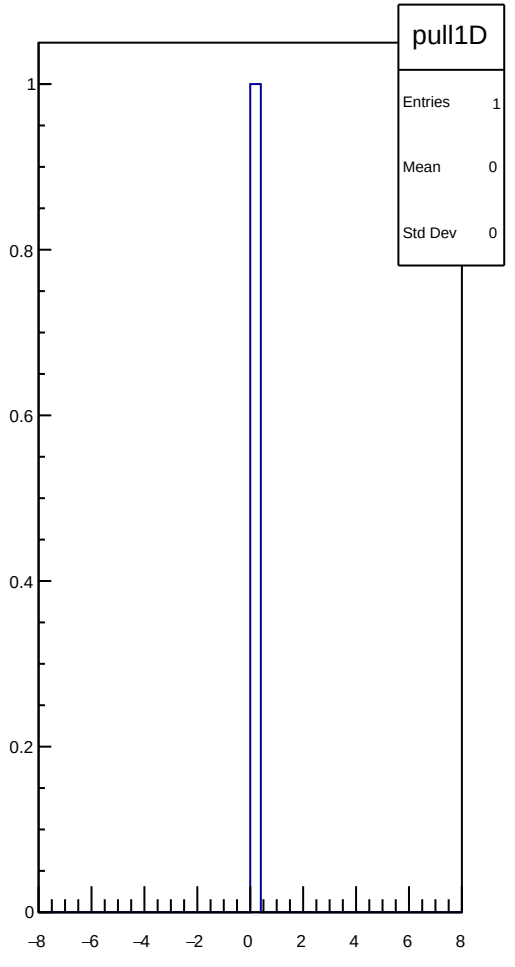

diff_cav4dY_mean vs run
χ² / ndf 0 / 0
p0 −0.003094 ± 0.01711
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_cav4dY_rms vs run
χ² / ndf 3.37e−28 / 0
p0 1.669 ± 0.0121
1.68
1.675
1.67
1.665
1.66
1.655
5576. 0


diff_bpm4aX_mean vs run
χ² / ndf 0 / 0
p0 −46.14 ± 128
100
50
0
−50
−100
−150
5576. 0


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


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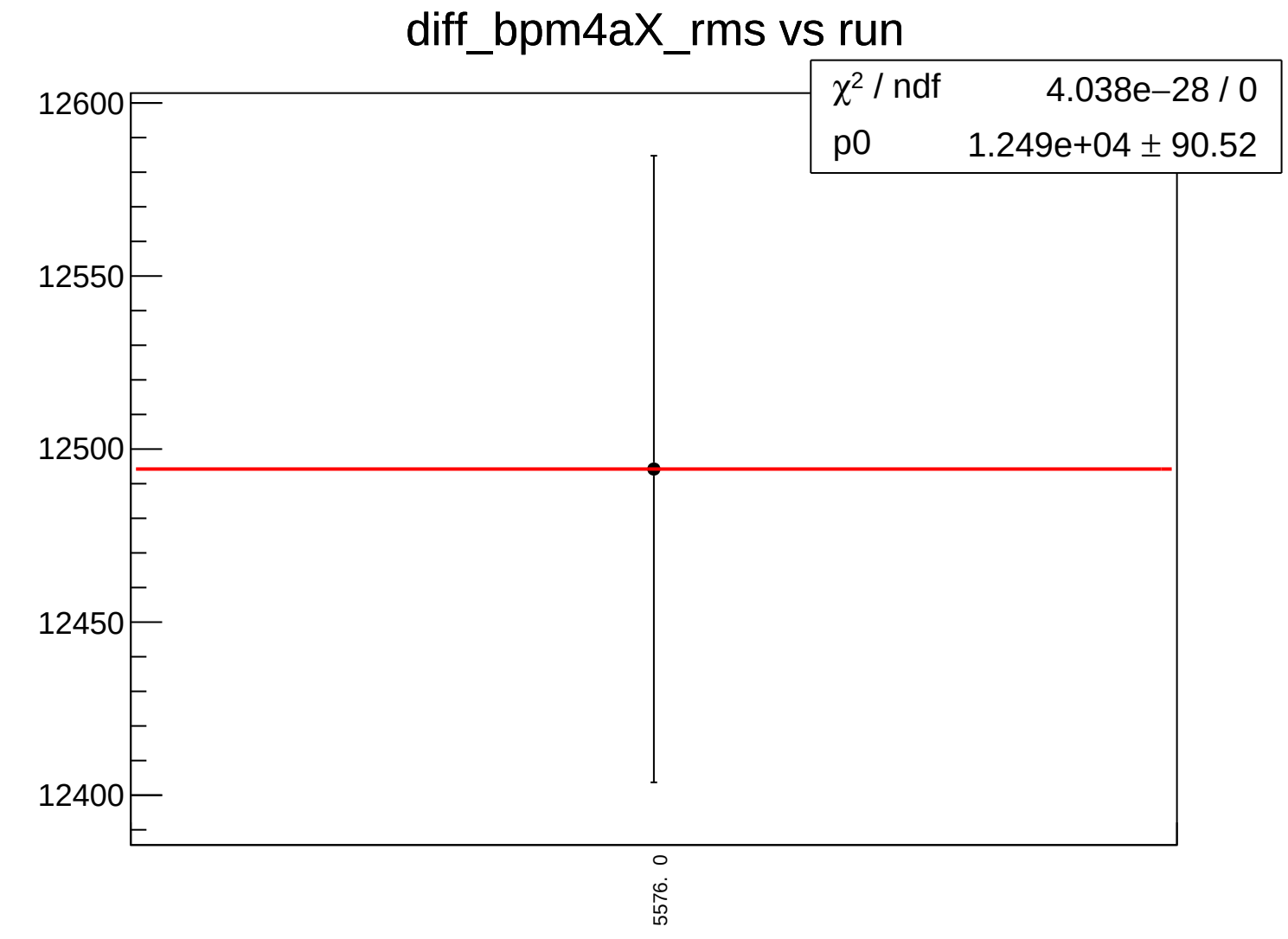
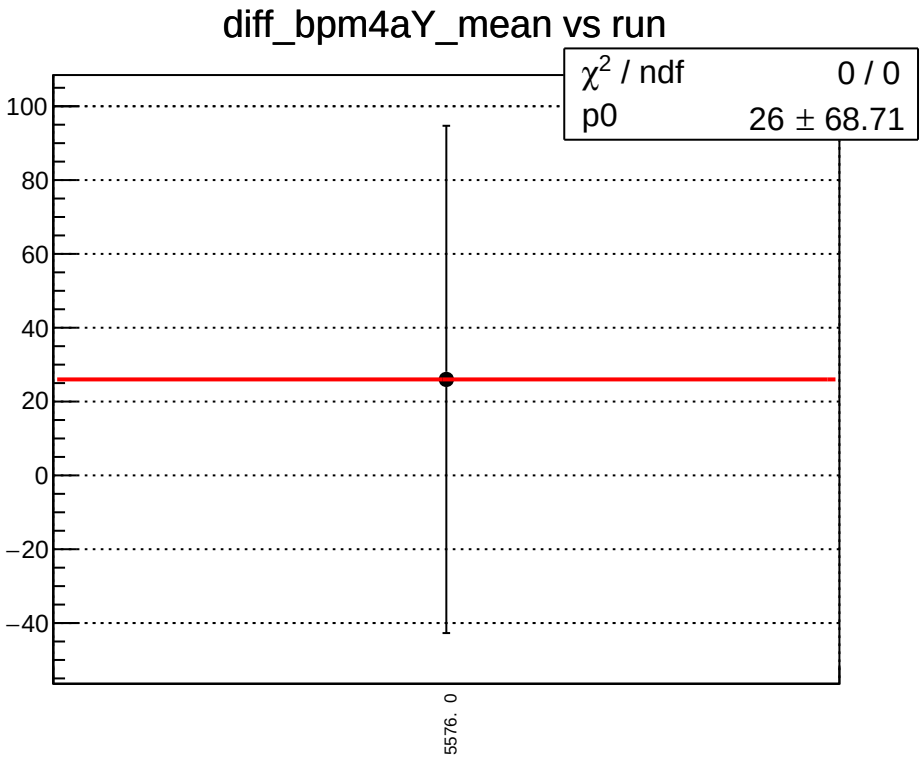
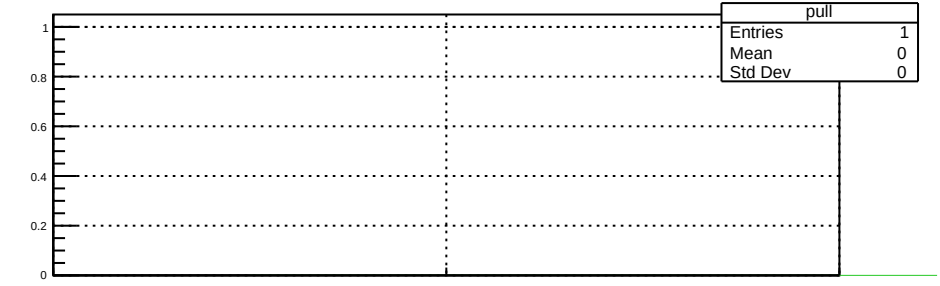
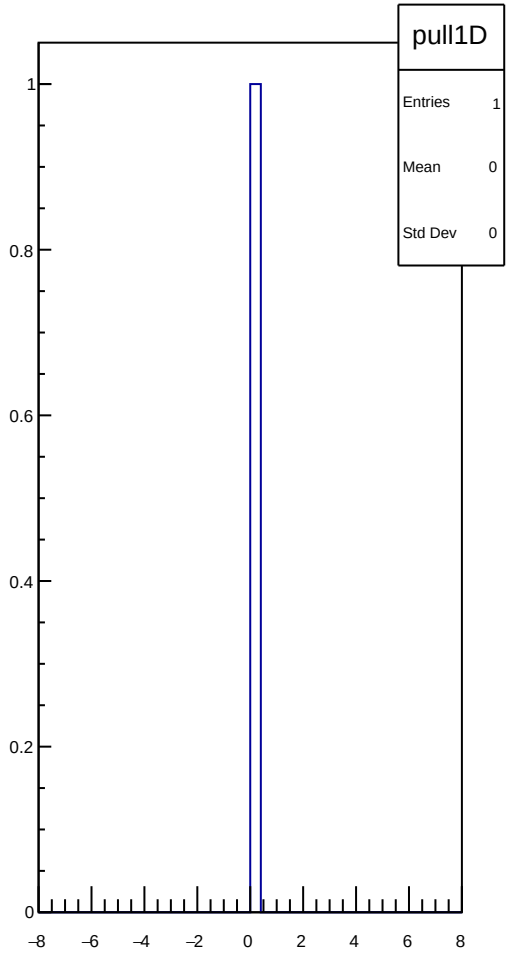
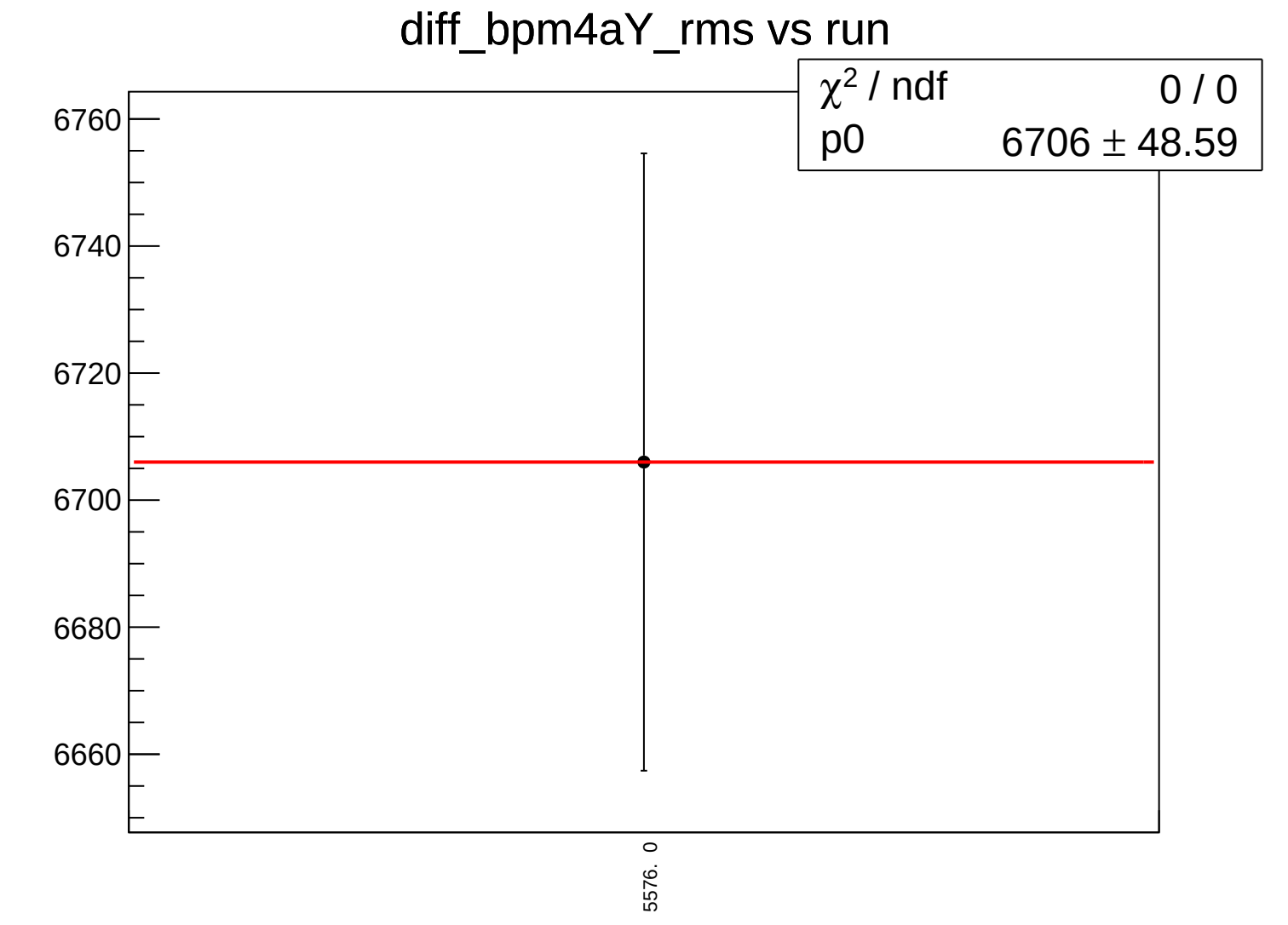
0
2
4
6
8

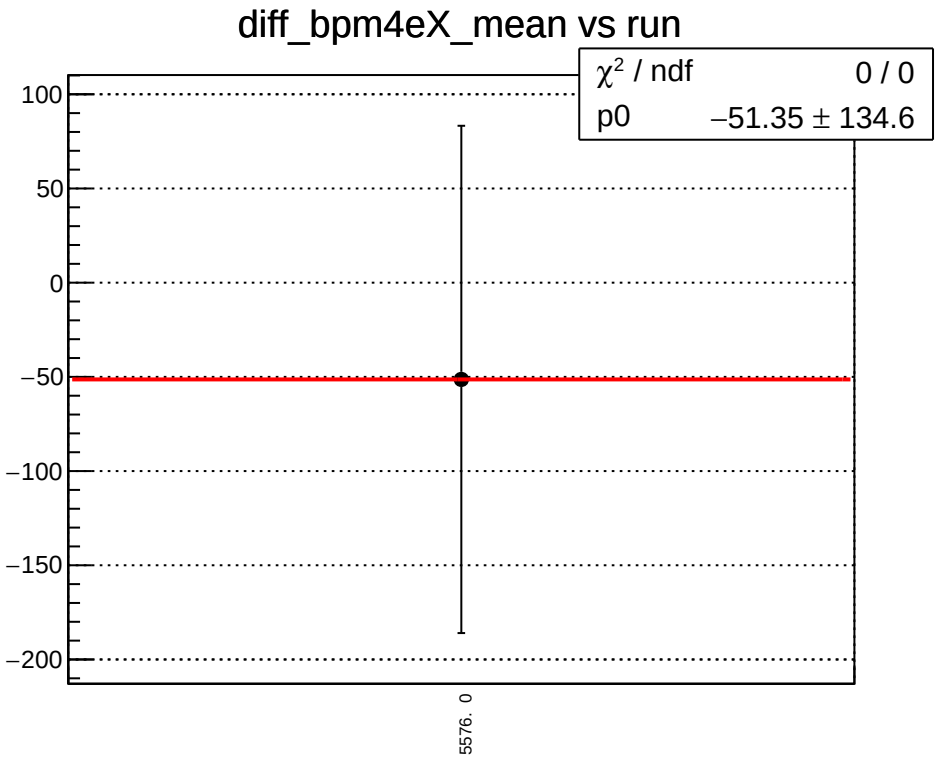

diff_bpm4aX_rms vs run
χ² / ndf 4.038e−28 / 0
p0 1.249e+04 ± 90.52
12600
12550
12500
12450
12400
5576. 0

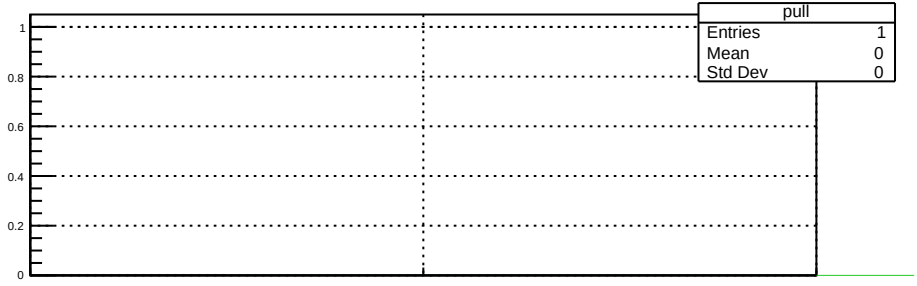

diff_bpm4aY_mean vs run
χ² / ndf 0 / 0
p0 26 ± 68.71
100
80
60
40
20
0
−20
−40
5576. 0

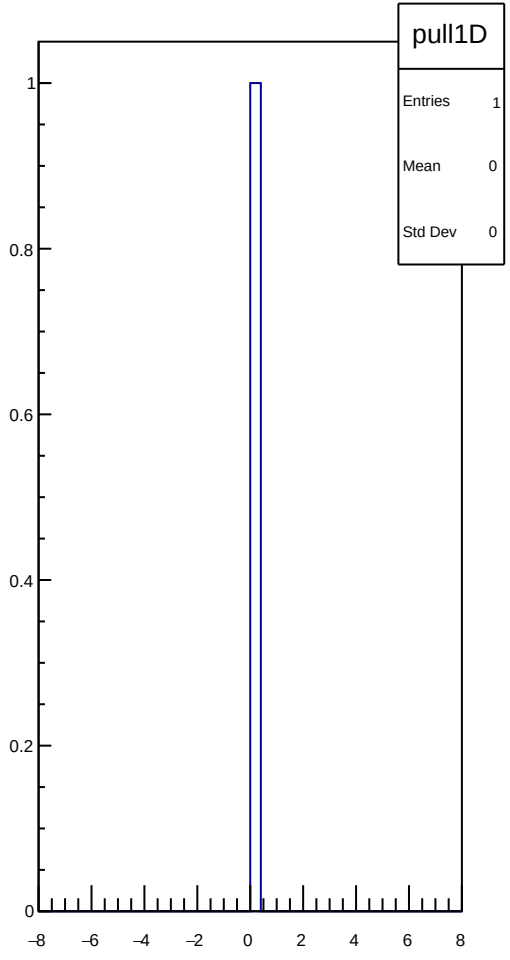

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

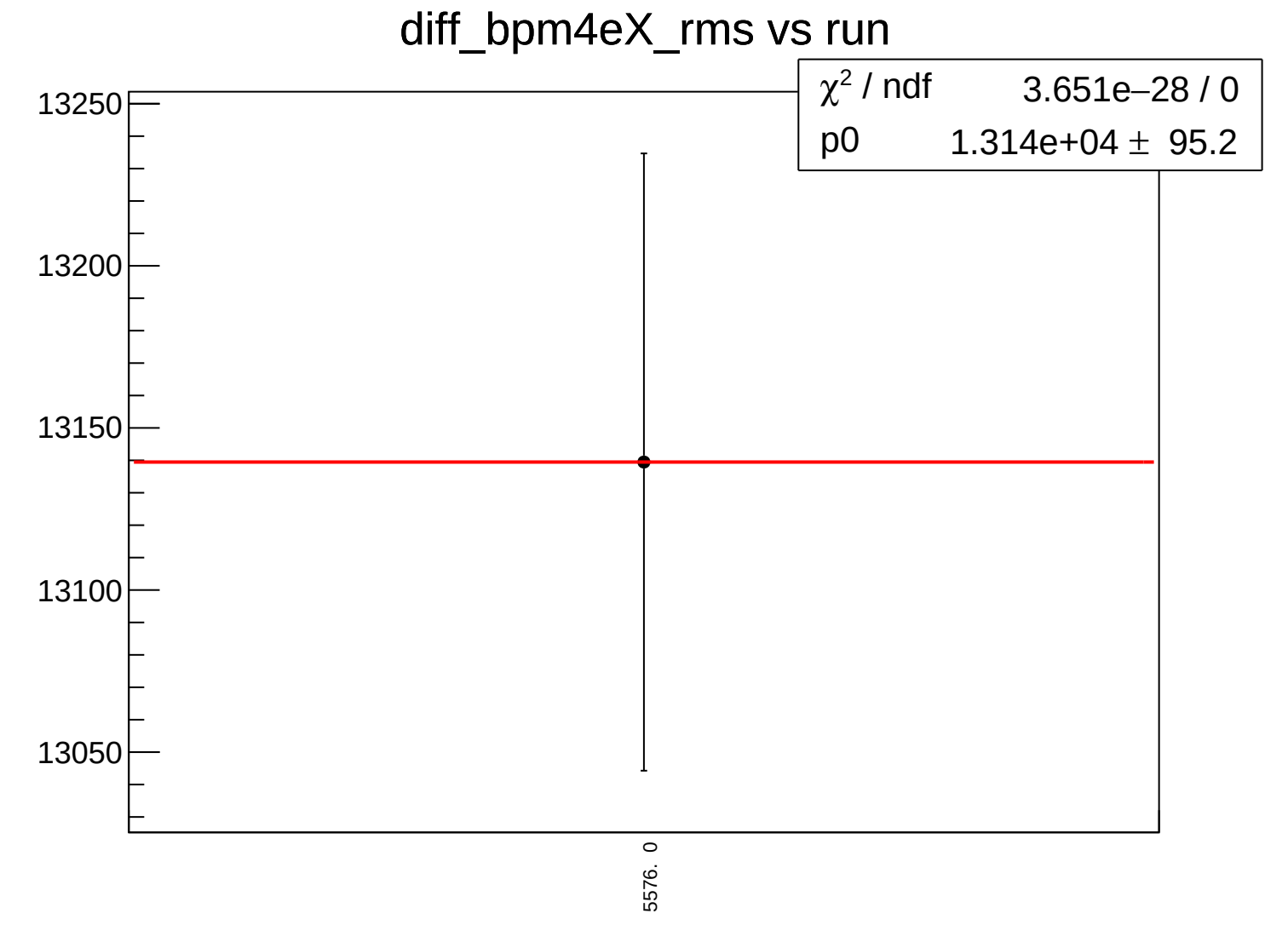

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

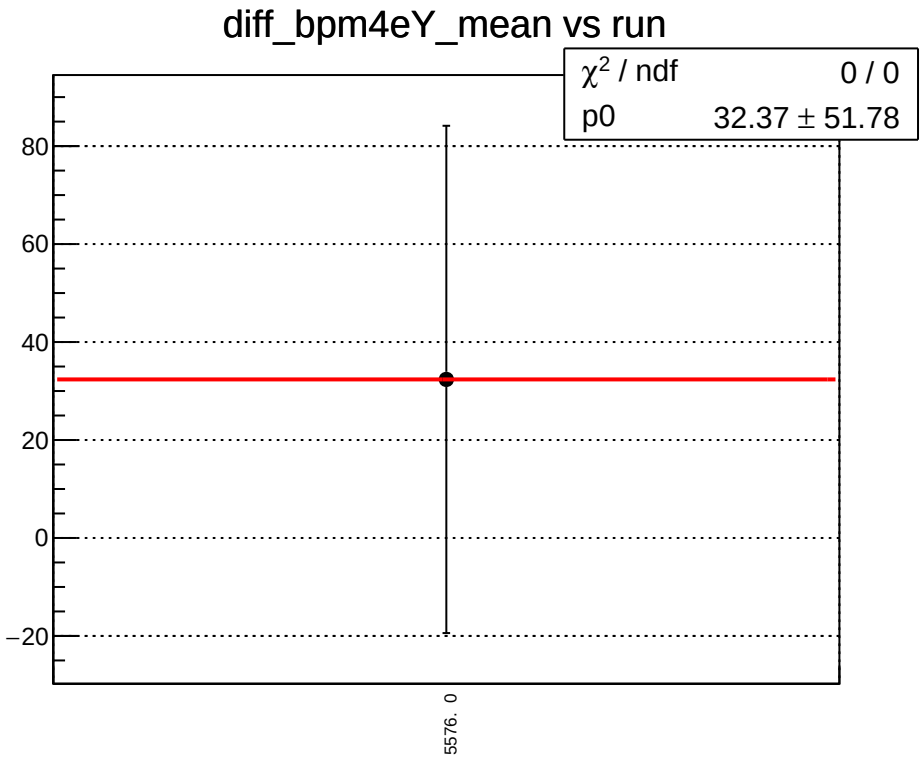

diff_bpm4aY_rms vs run
χ² / ndf 0 / 0
p0 6706 ± 48.59
6760
6740
6720
6700
6680
6660
5576. 0

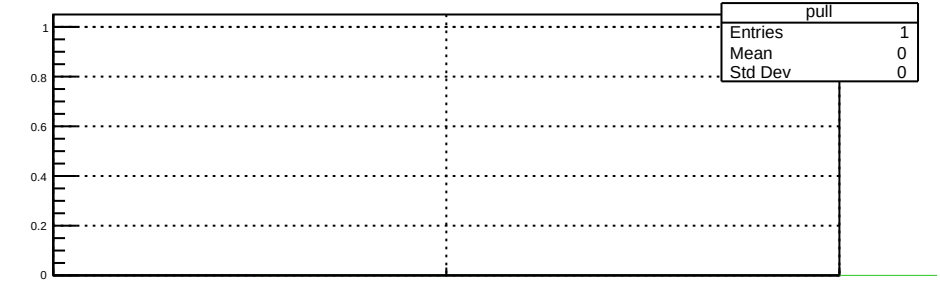

diff_bpm4eX_mean vs run
χ² / ndf 0 / 0
p0 −51.35 ± 134.6
100
50
0
−50
−100
−150
−200
5576. 0

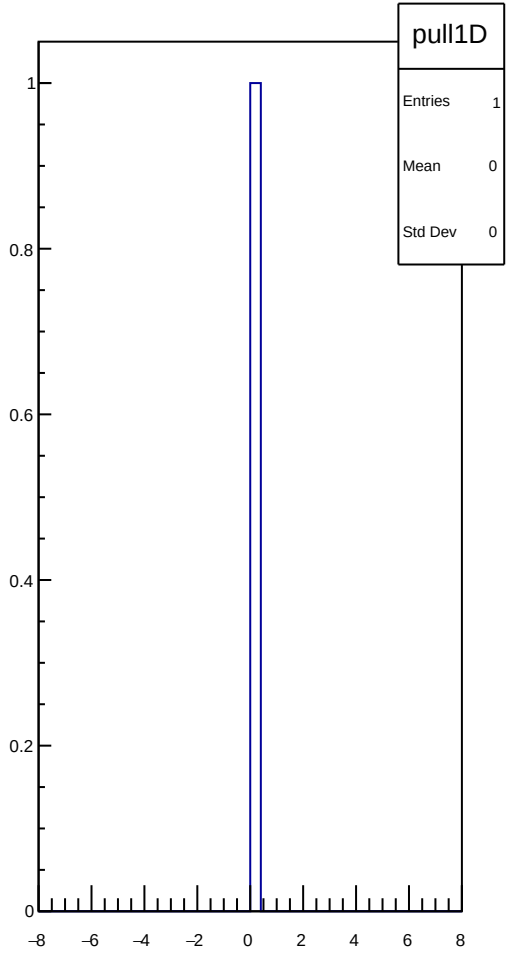

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

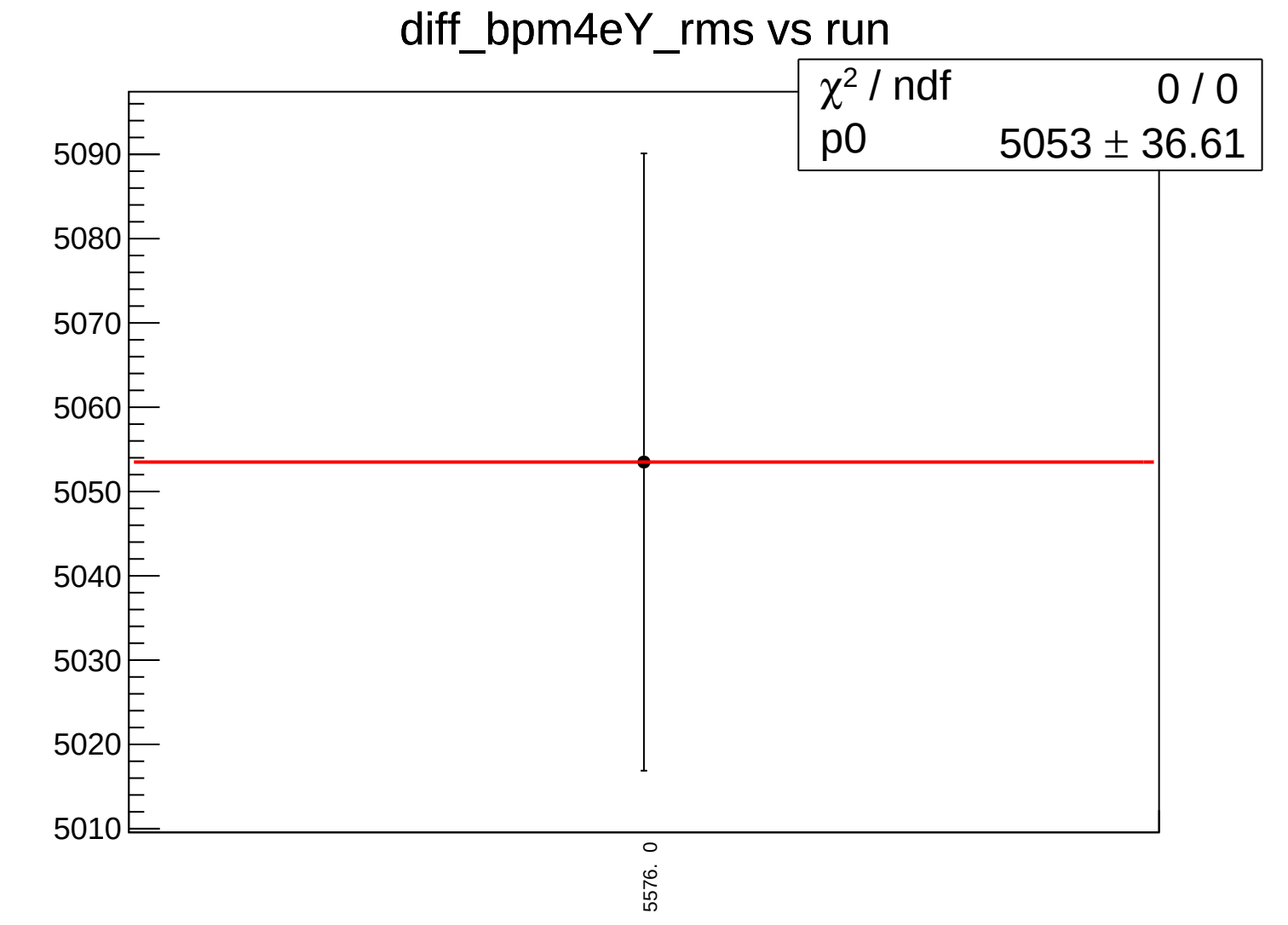

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

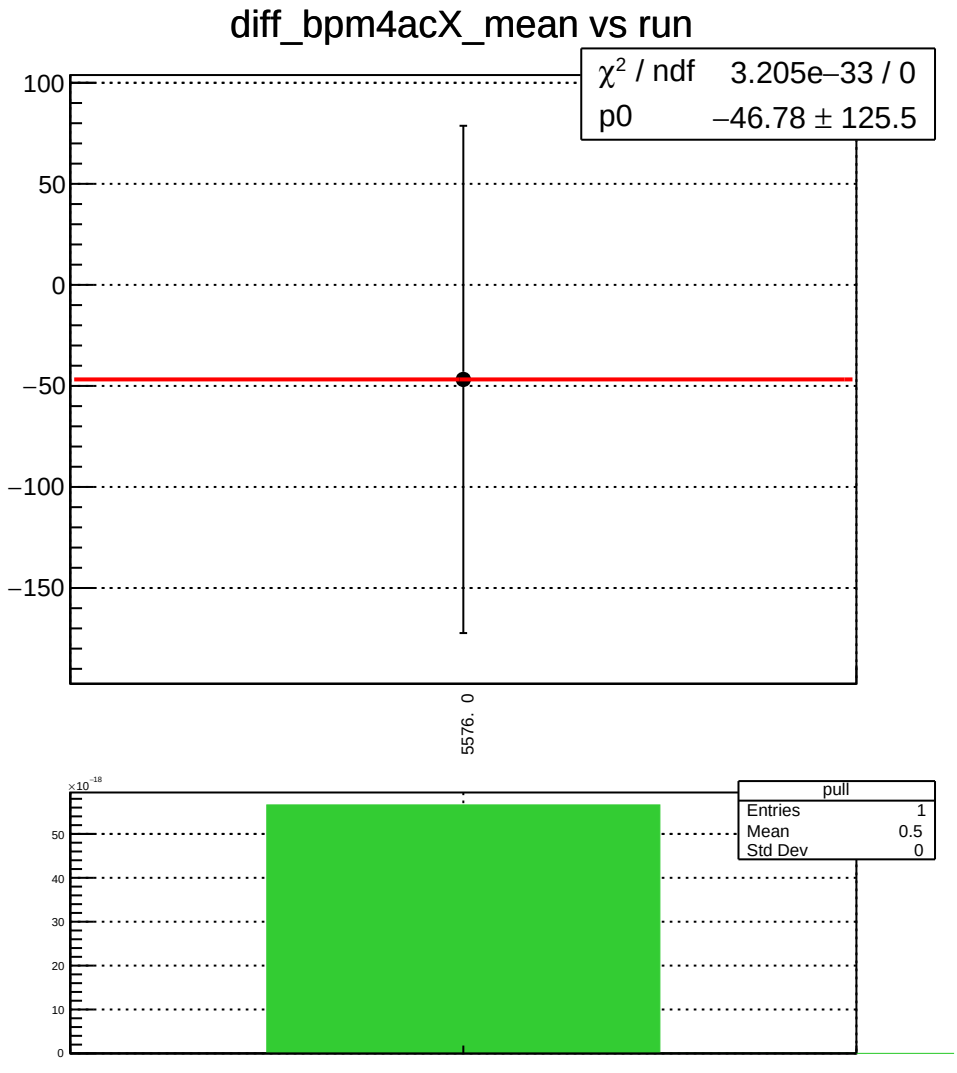

diff_bpm4eX_rms vs run
χ² / ndf 3.651e−28 / 0
p0 1.314e+04 ± 95.2
13250
13200
13150
13100
13050
5576. 0

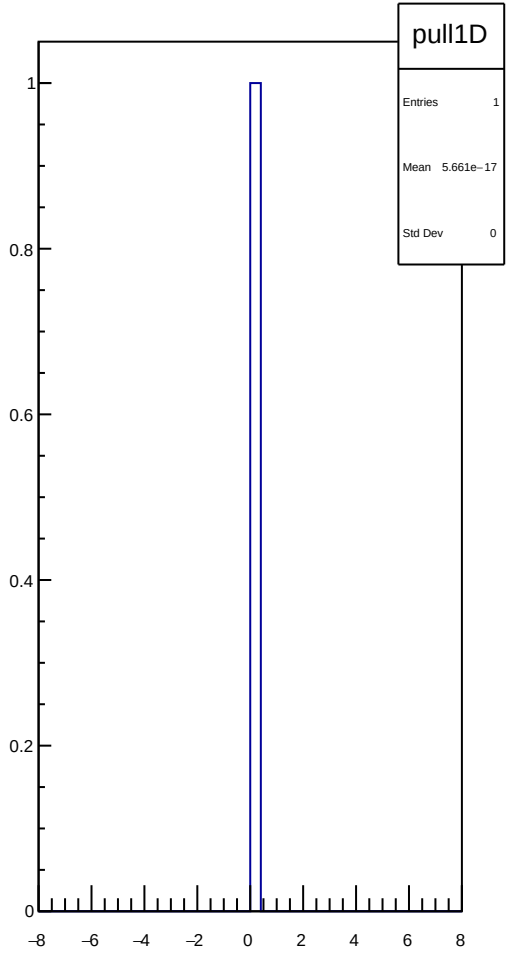

diff_bpm4eY_mean vs run
χ² / ndf 0 / 0
p0 32.37 ± 51.78
80
60
40
20
0
−20
5576. 0

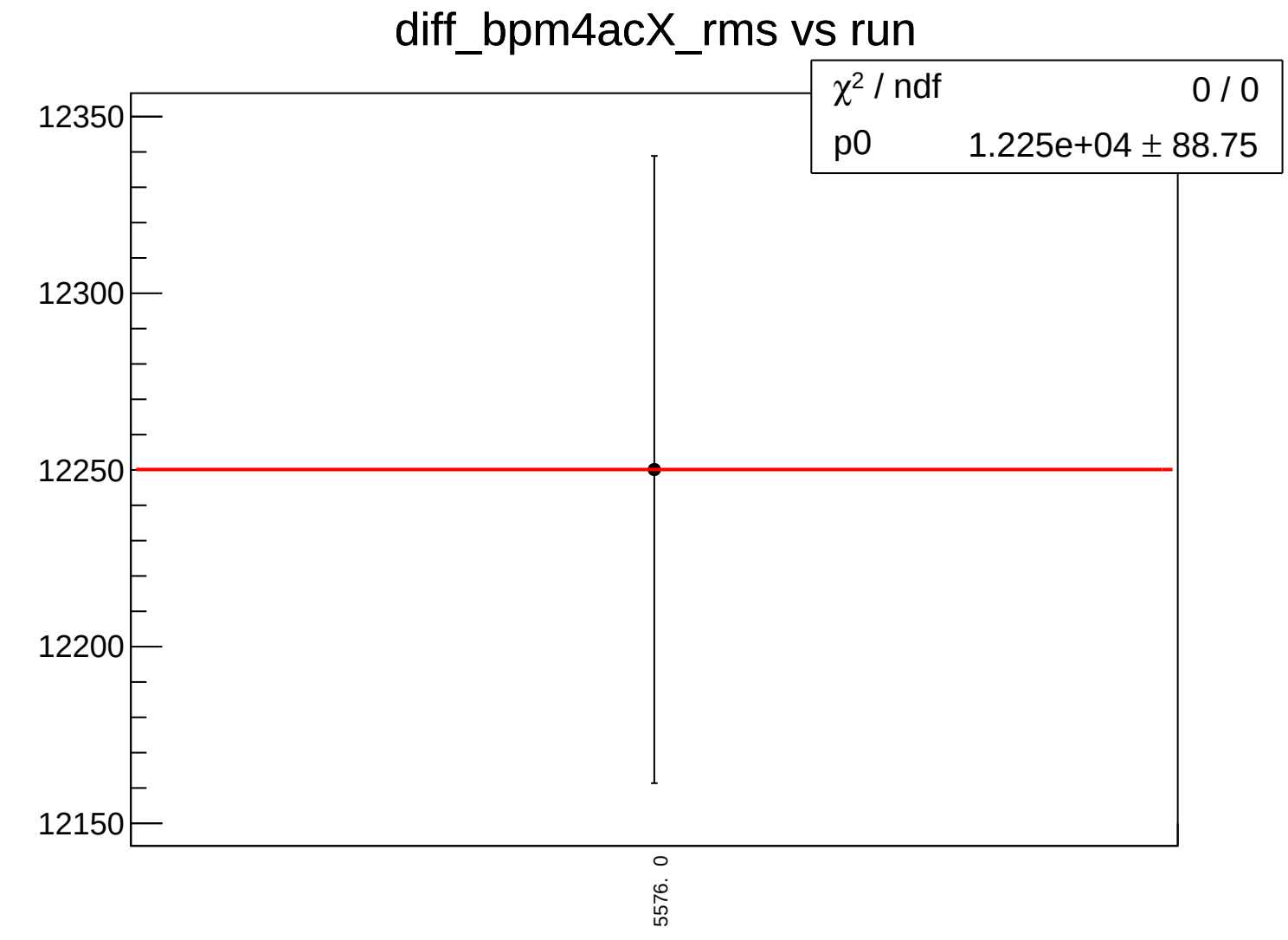

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

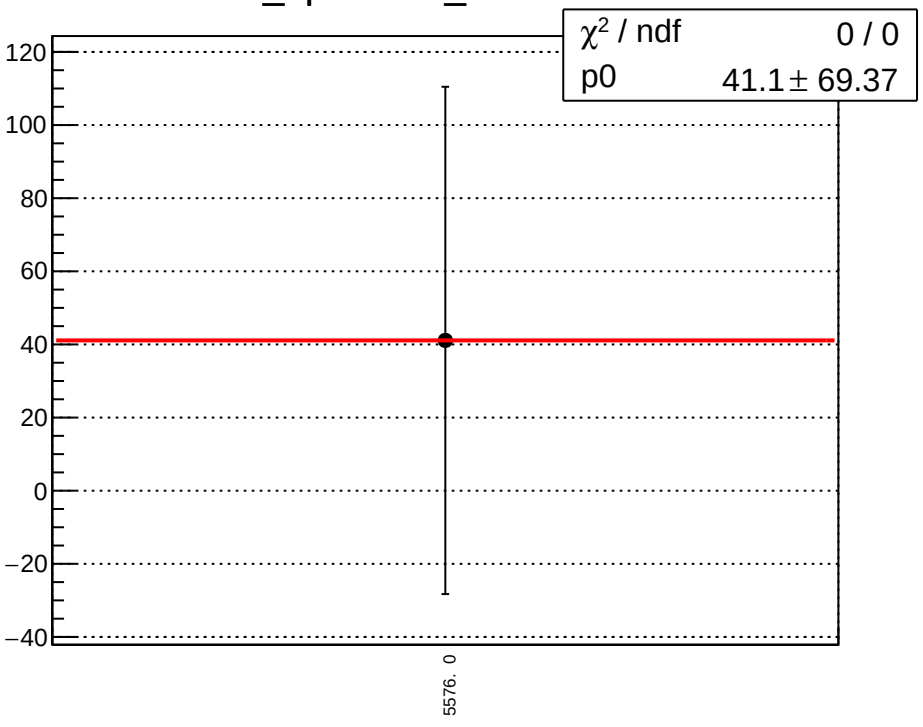

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

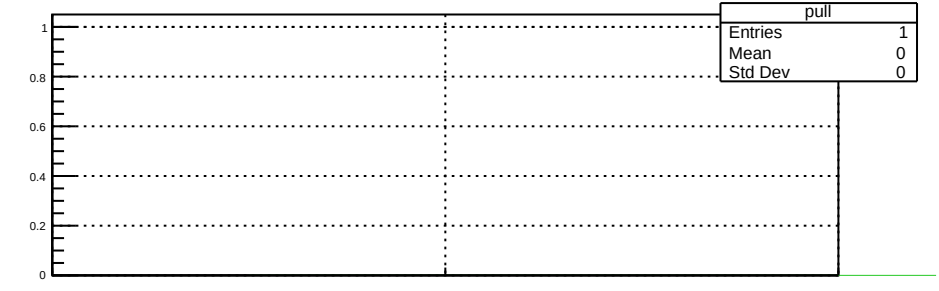

diff_bpm4eY_rms vs run
χ² / ndf 0 / 0
p0 5053 ± 36.61
5090
5080
5070
5060
5050
5040
5030
5020
5010
5576. 0

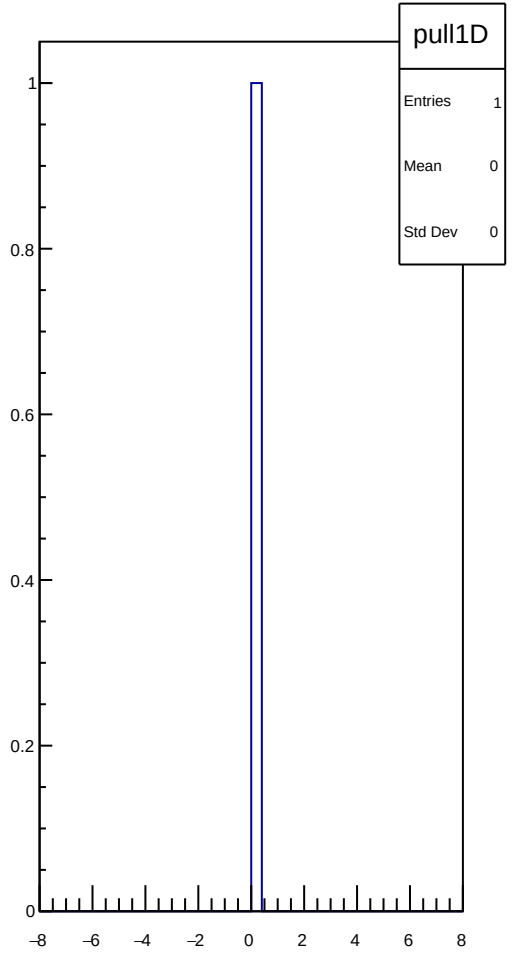

diff_bpm4acX_mean vs run
χ² / ndf 3.205e−33 / 0
p0 −46.78 ± 125.5
100
50
0
−50
−100
−150
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

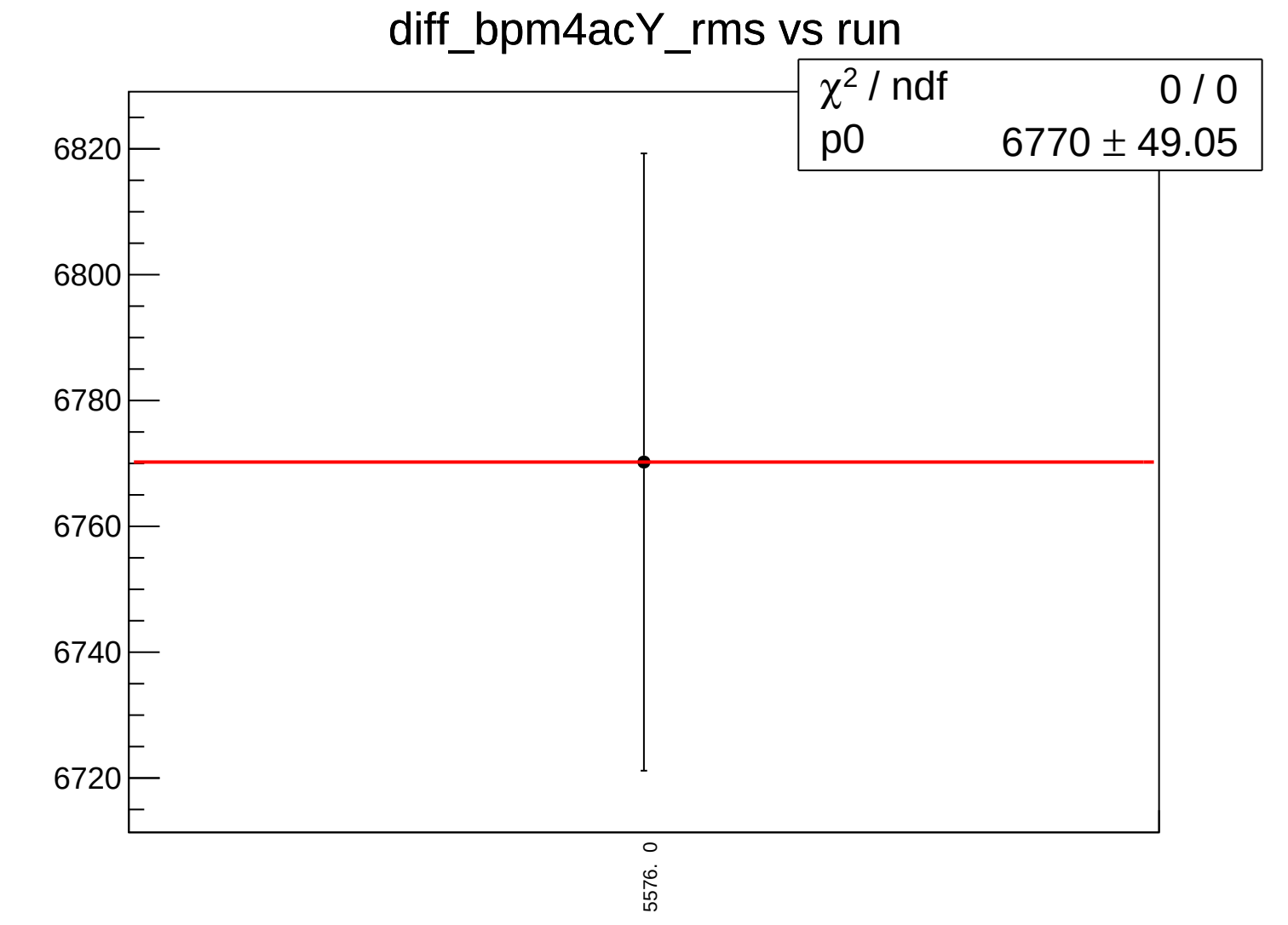

pull1D
Entries 1
Mean 5.661e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

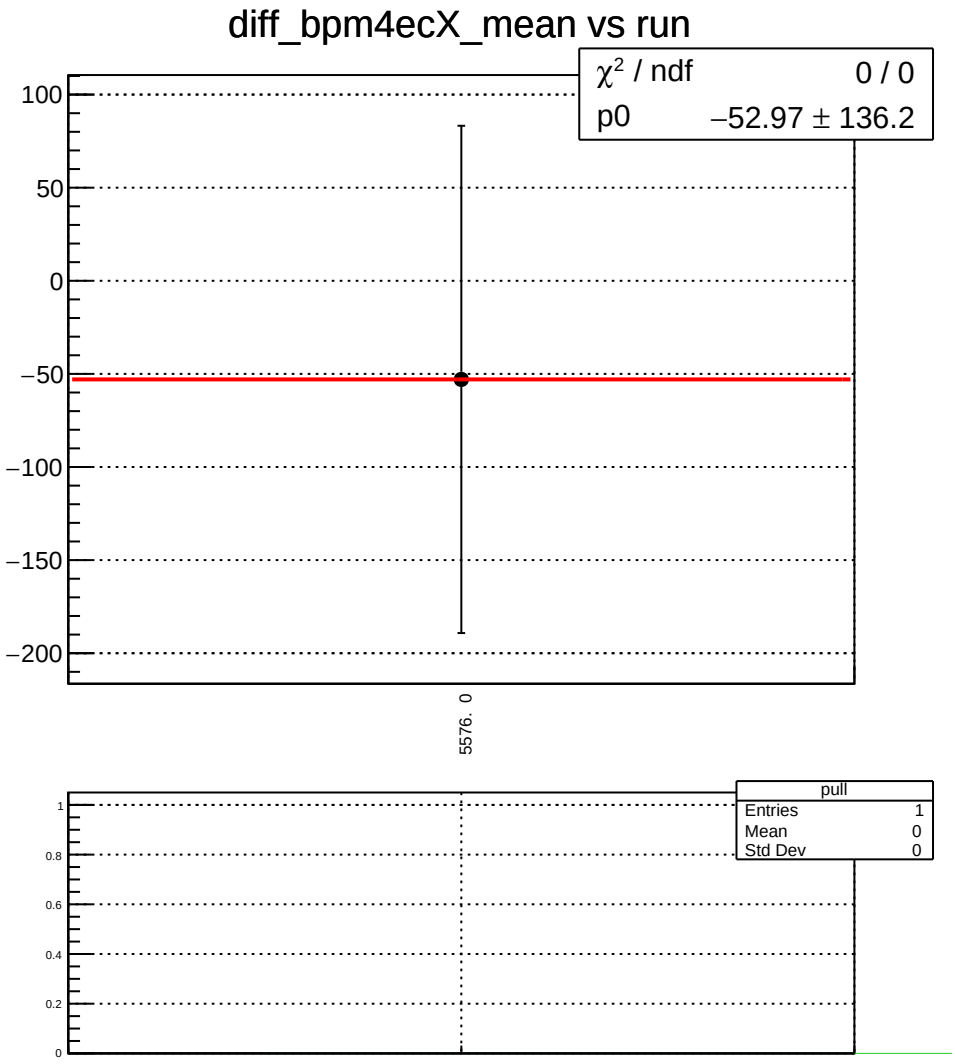

diff_bpm4acX_rms vs run
χ² / ndf 0 / 0
p0 1.225e+04 ± 88.75
12350
12300
12250
12200
12150
5576. 0

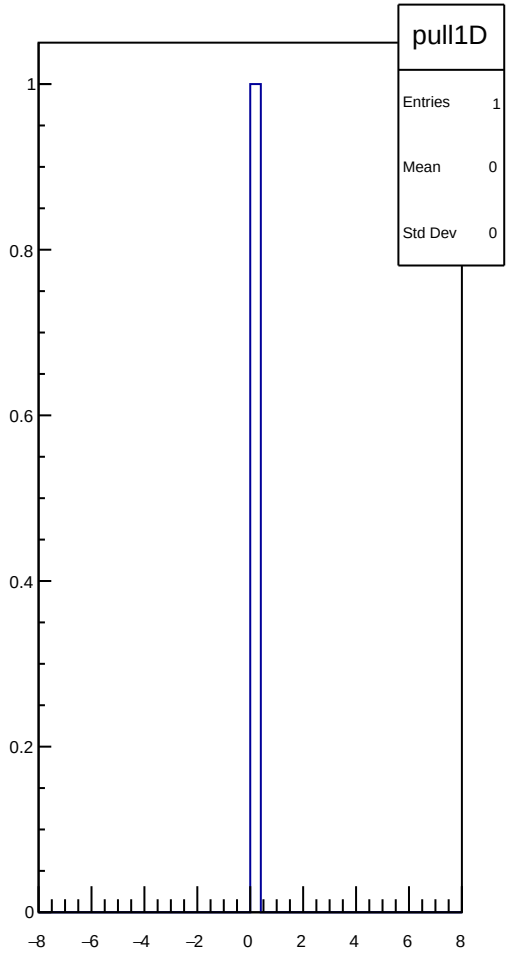

diff_bpm4acY_mean vs run
χ² / ndf 0 / 0
p0 41.1 ± 69.37
120
100
80
60
40
20
0
−20
−40
5576. 0

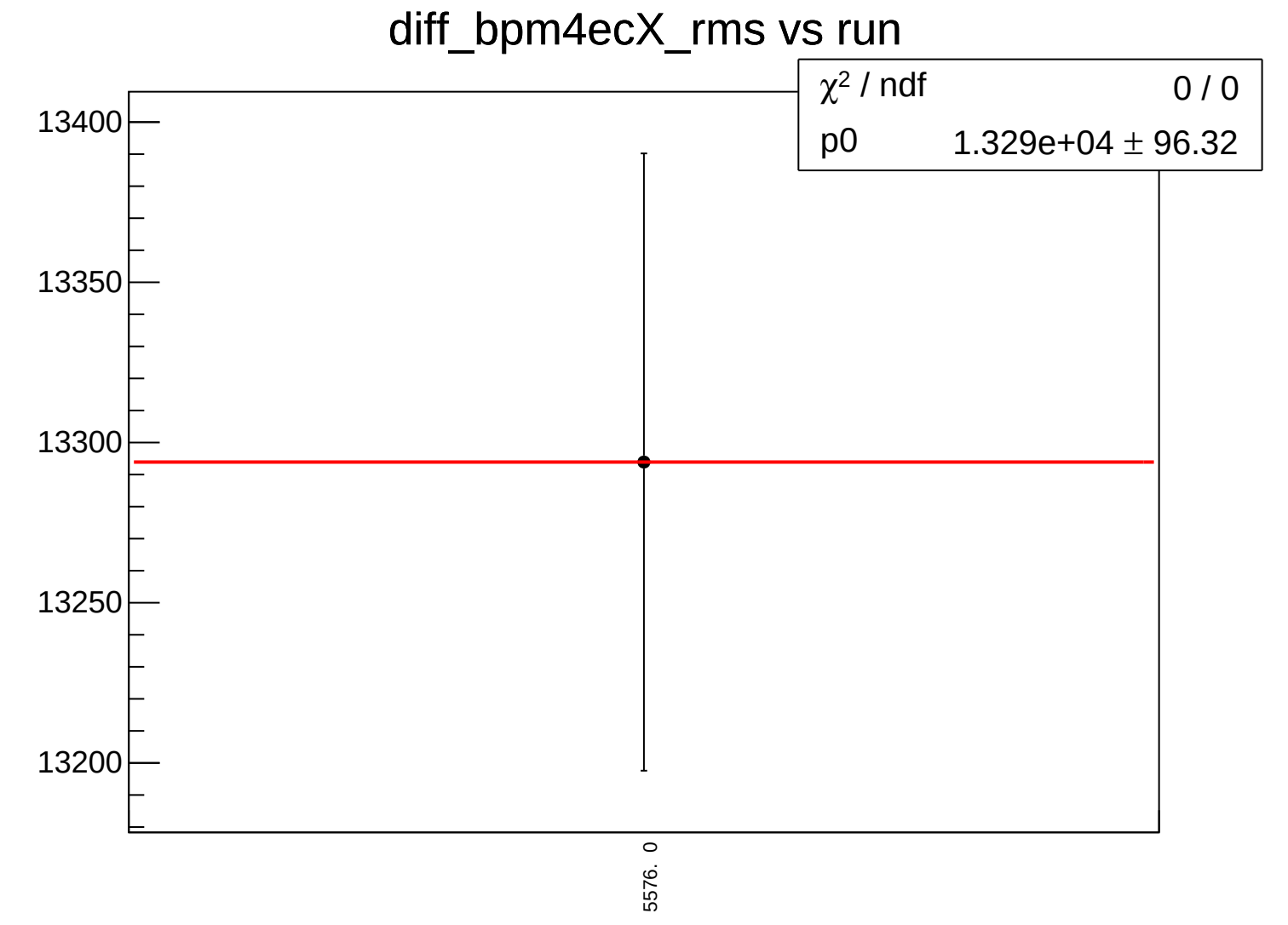

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

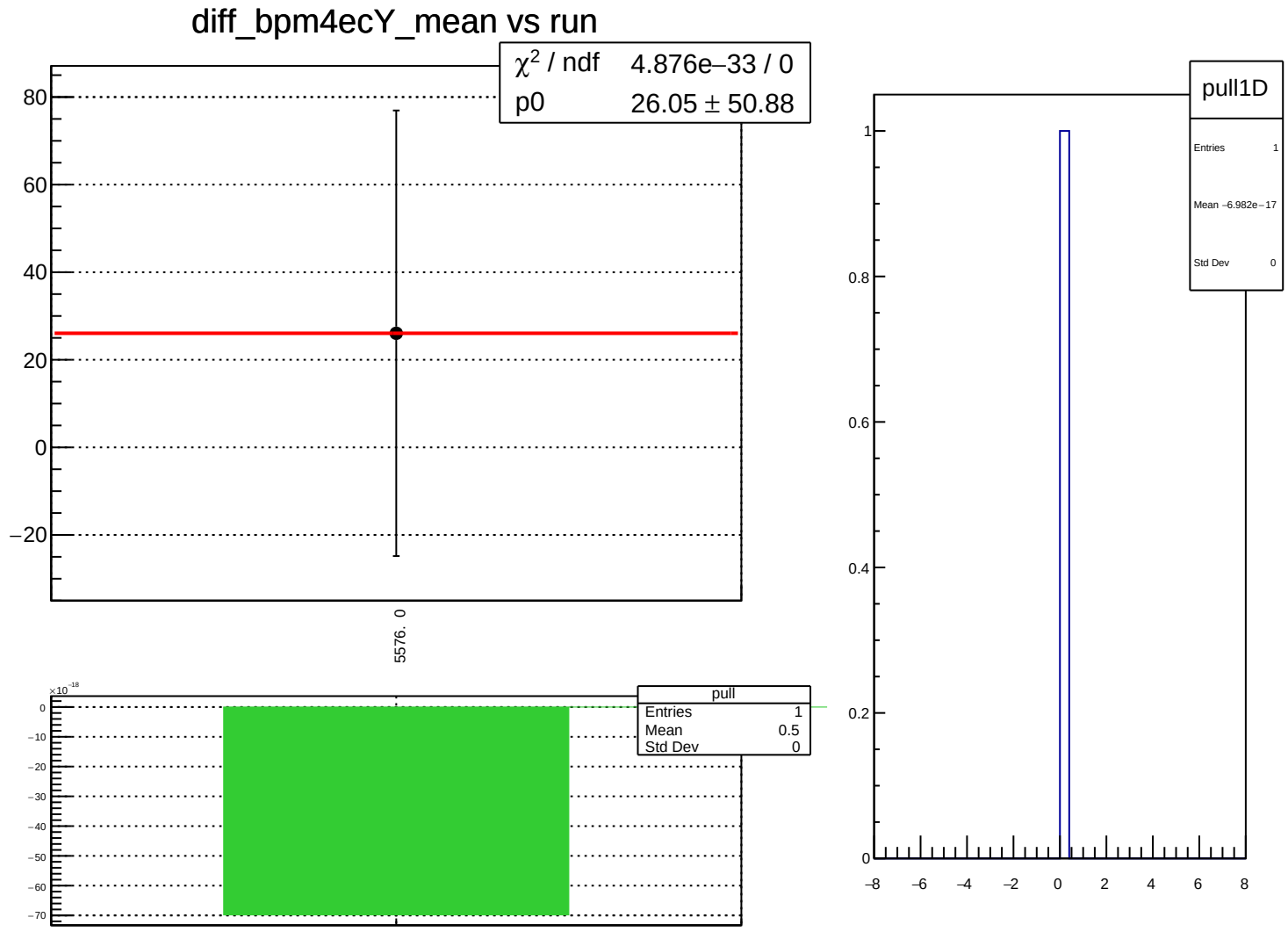

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

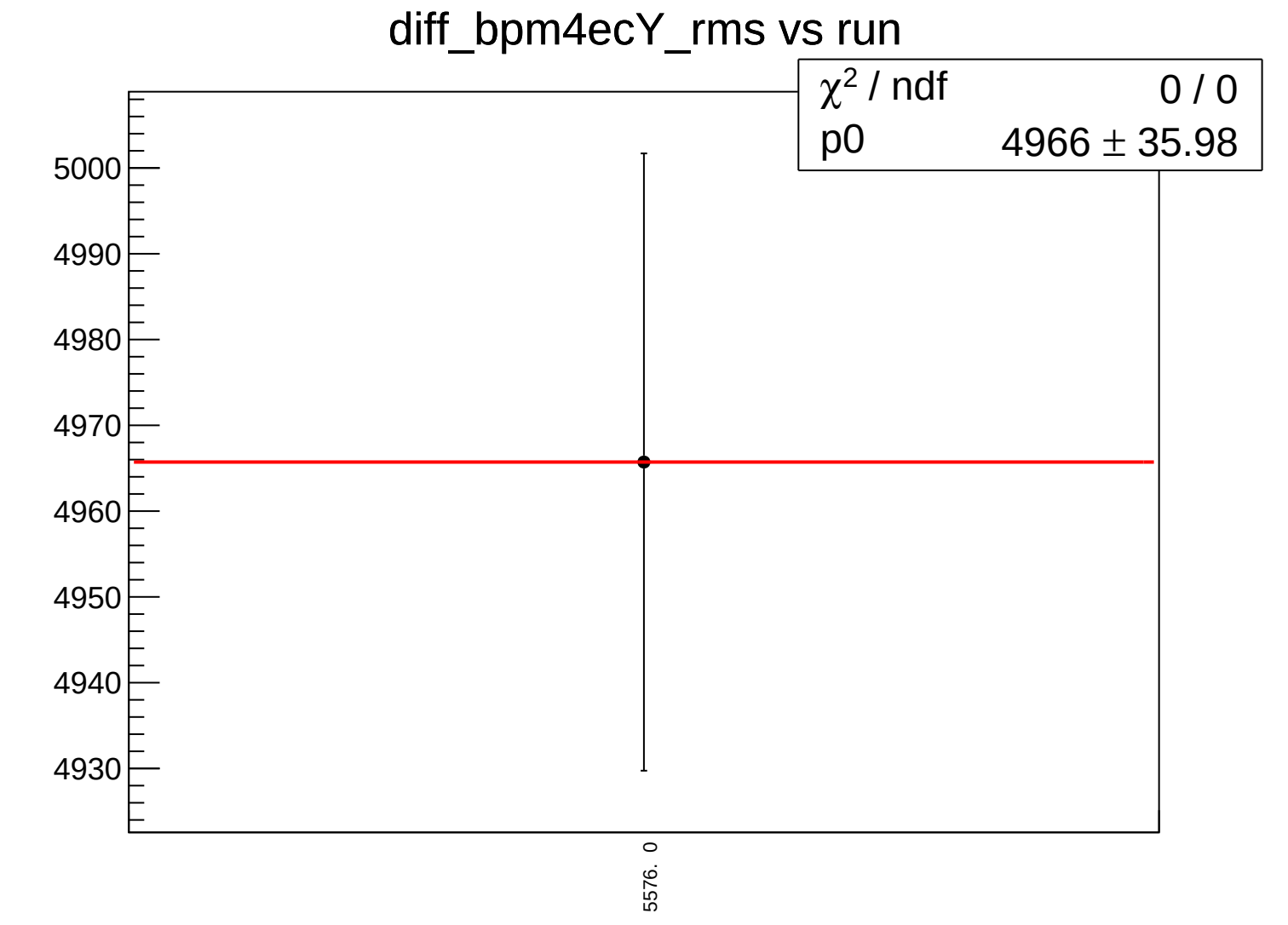

diff_bpm4acY_rms vs run
χ² / ndf 0 / 0
p0 6770 ± 49.05
6820
6800
6780
6760
6740
6720
5576. 0

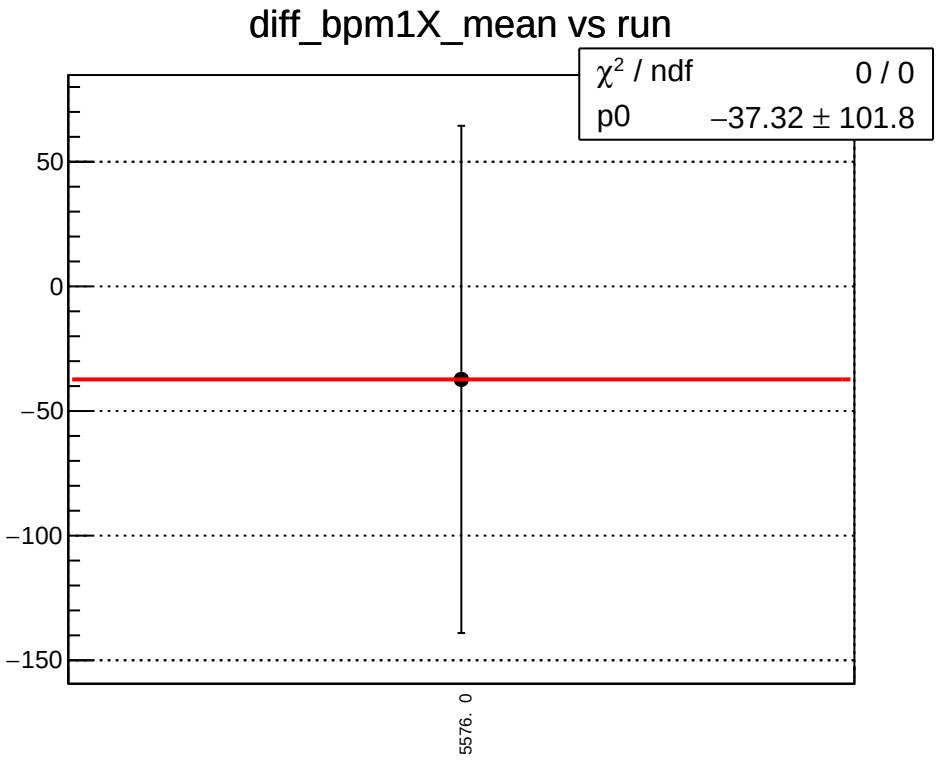

diff_bpm4ecX_mean vs run
χ² / ndf 0 / 0
p0 −52.97 ± 136.2
100
50
0
−50
−100
−150
−200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

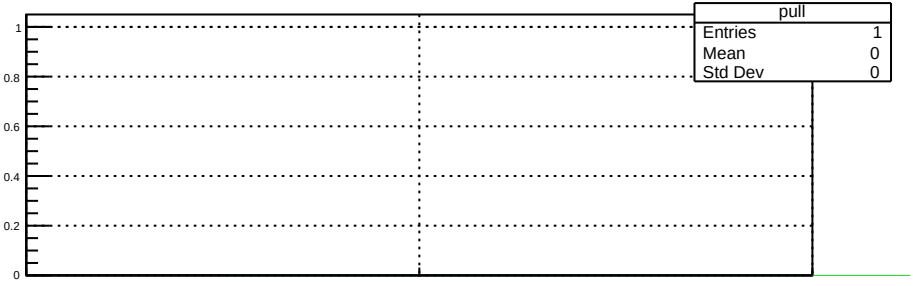

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

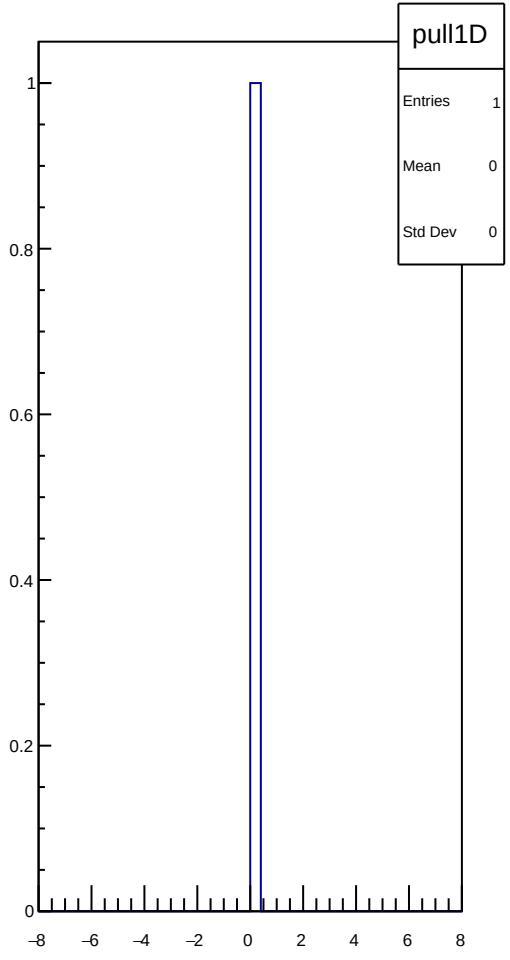

diff_bpm4ecX_rms vs run
χ² / ndf 0 / 0
p0 1.329e+04 ± 96.32
13400
13350
13300
13250
13200
5576. 0

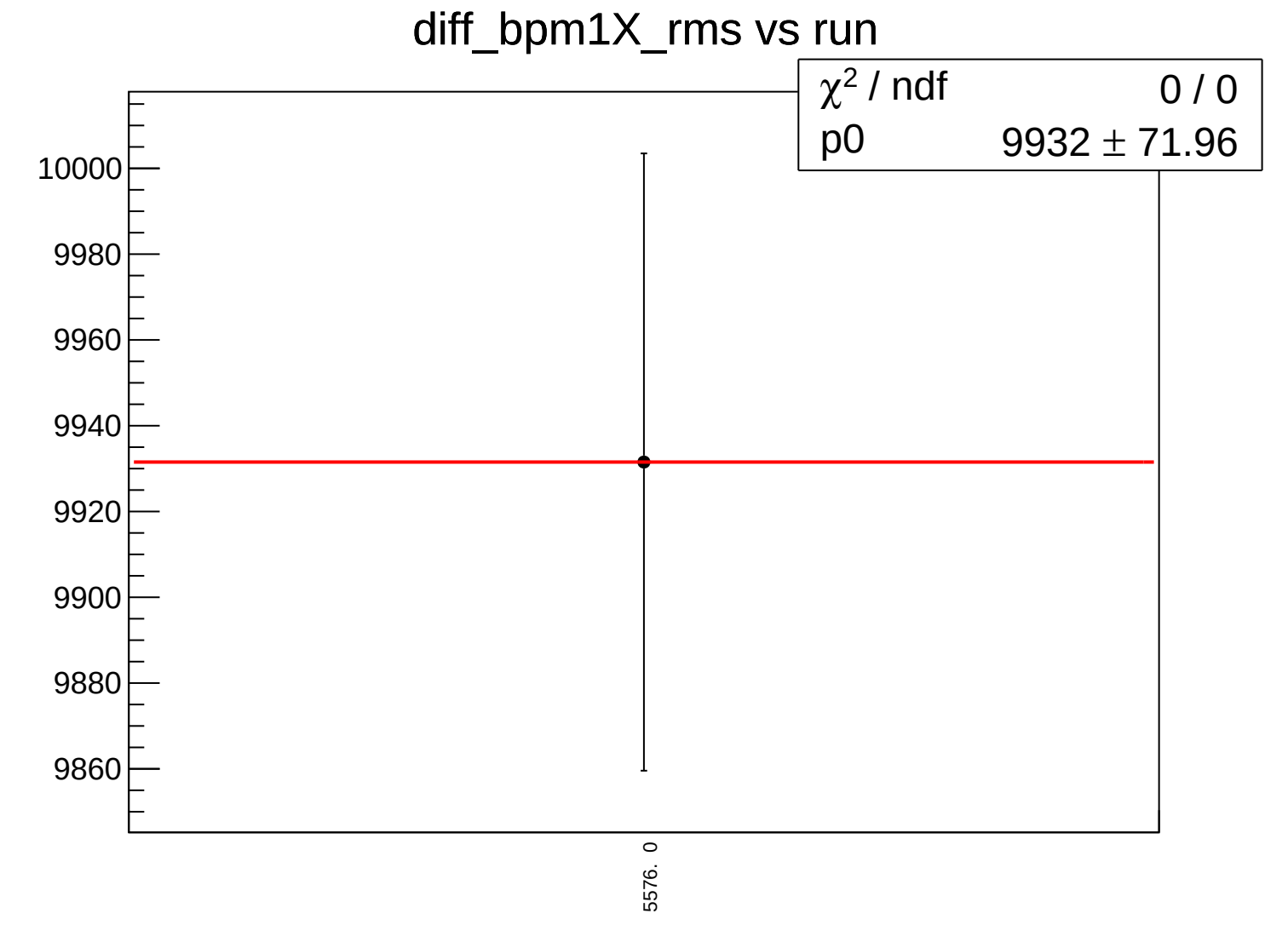

diff_bpm4ecY_mean vs run
χ² / ndf 4.876e−33 / 0
p0 26.05 ± 50.88
80
60
40
20
0
−20
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.982e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

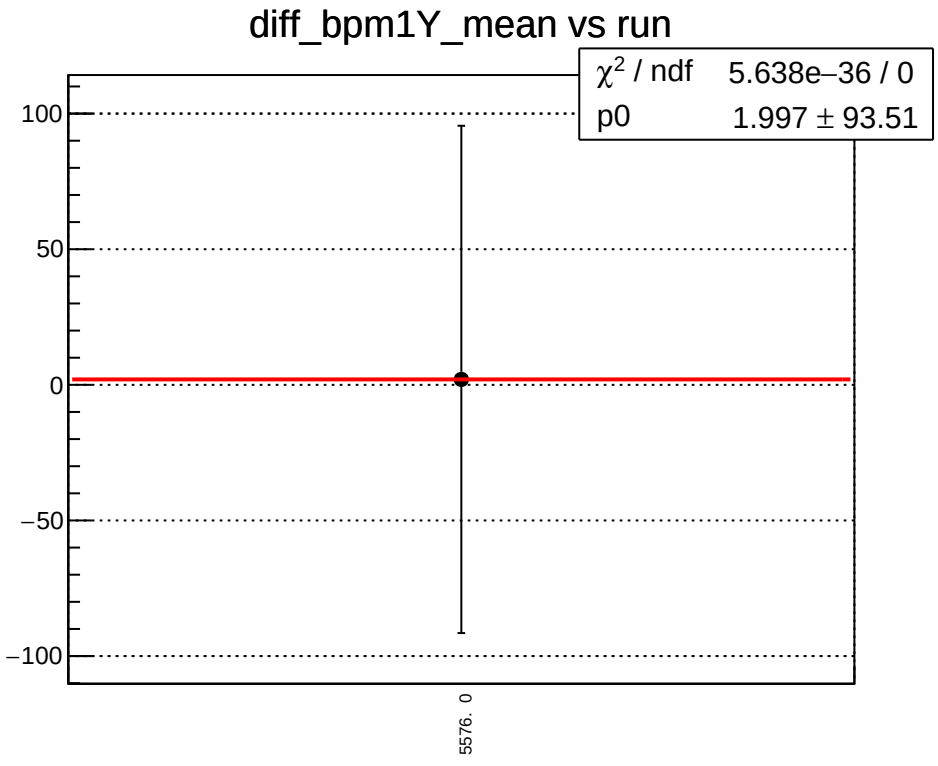

diff_bpm4ecY_rms vs run
χ² / ndf 0 / 0
p0 4966 ± 35.98
5000
4990
4980
4970
4960
4950
4940
4930
5576. 0

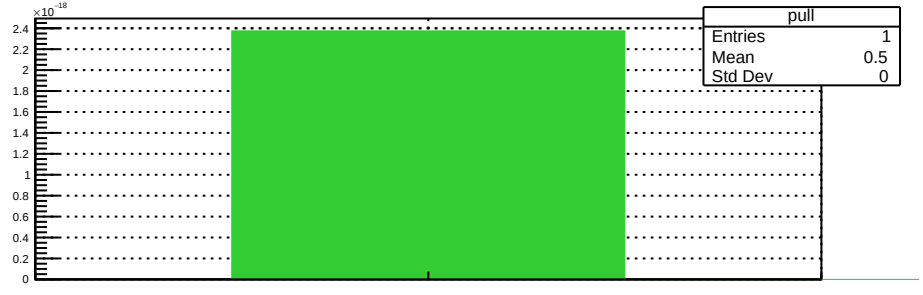

diff_bpm1X_mean vs run
χ² / ndf 0 / 0
p0 −37.32 ± 101.8
50
0
−50
−100
−150
5576. 0

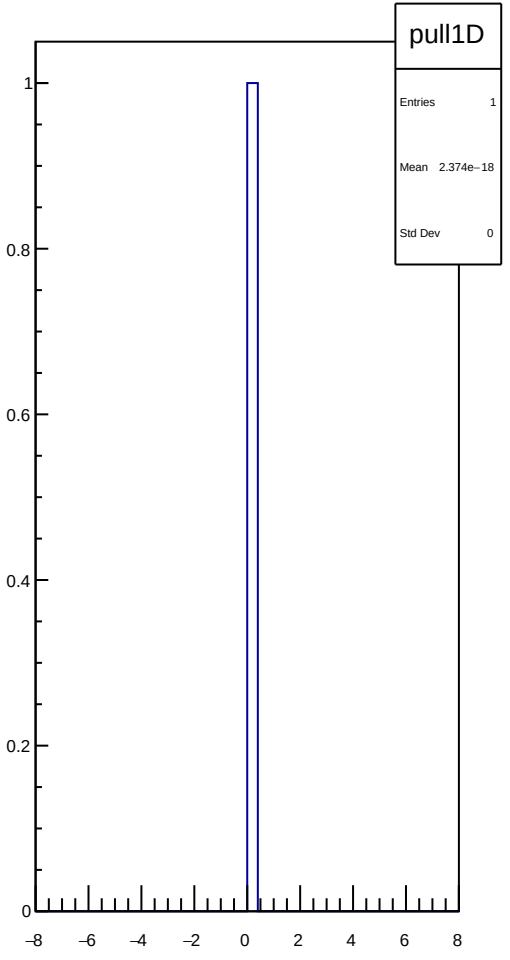

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

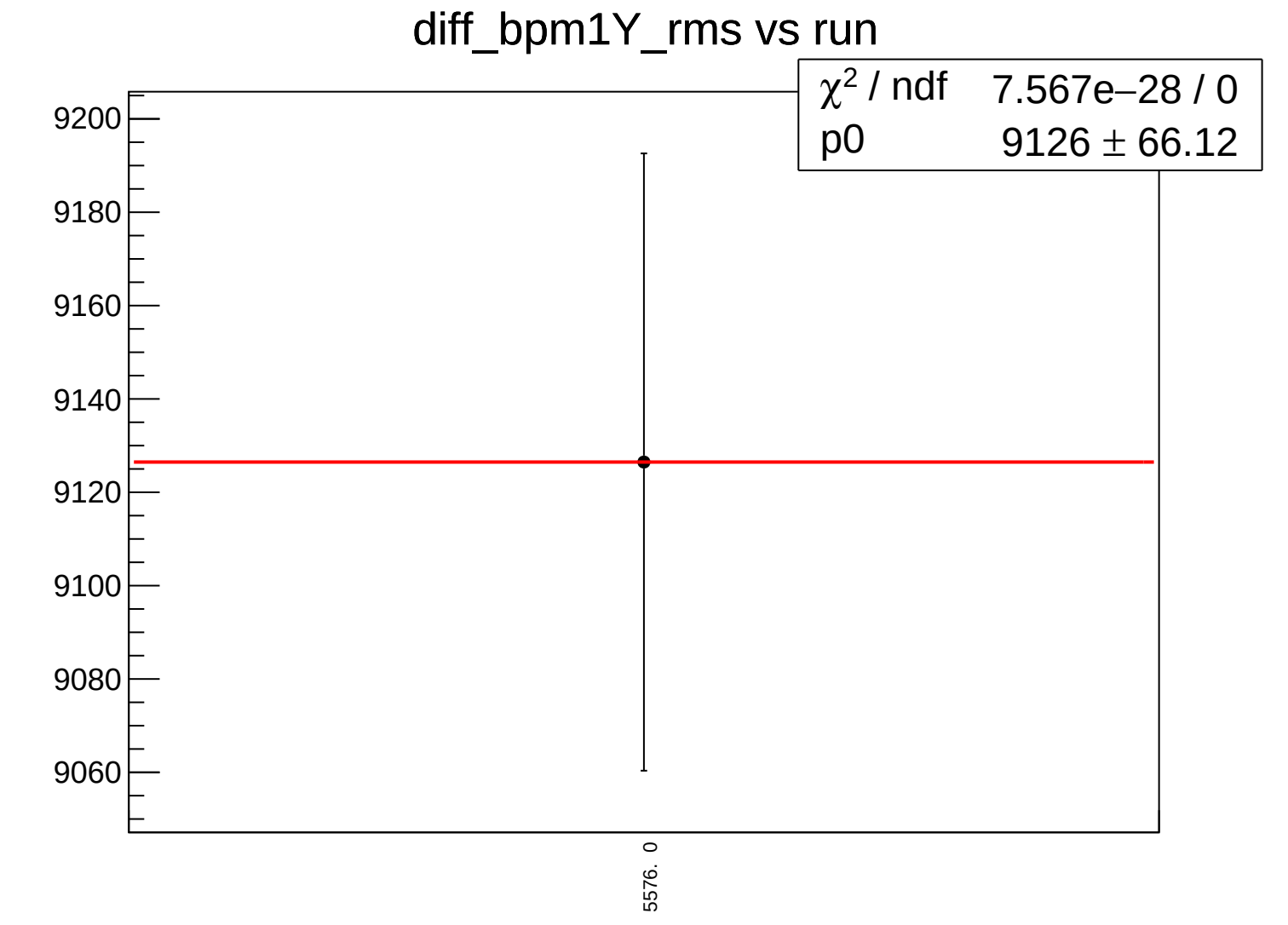

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

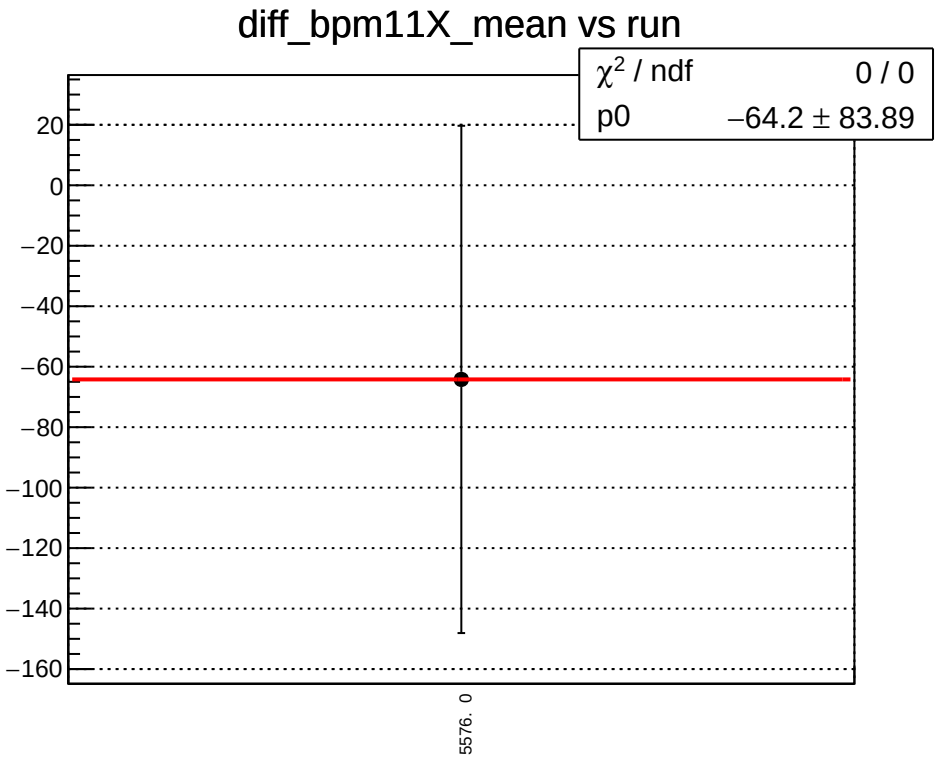

diff_bpm1X_rms vs run
χ² / ndf 0 / 0
p0 9932 ± 71.96
10000
9980
9960
9940
9920
9900
9880
9860
5576. 0

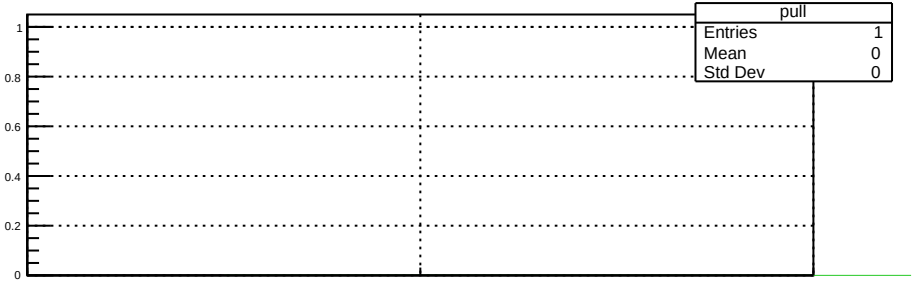

diff_bpm1Y_mean vs run
χ² / ndf 5.638e−36 / 0
p0 1.997 ± 93.51
100
50
0
−50
−100
5576. 0

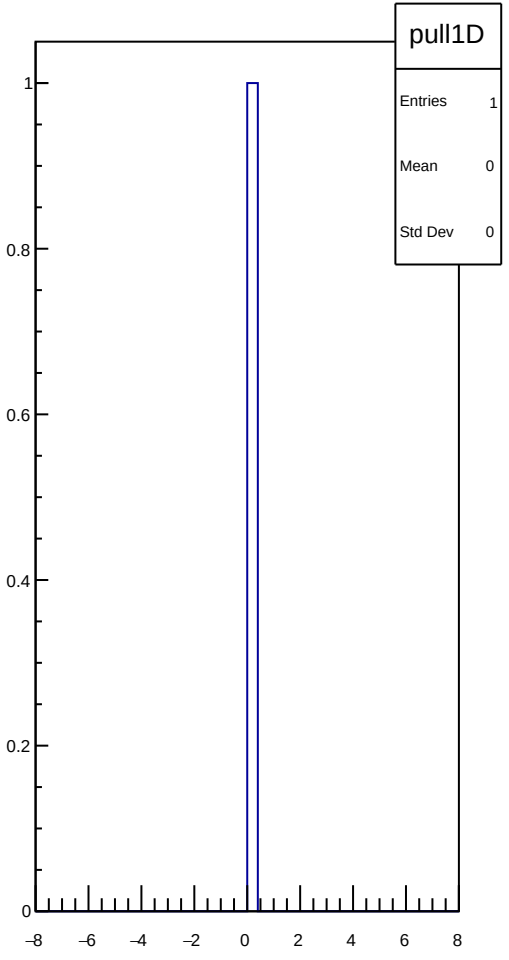

×10⁻¹⁸
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 1
Mean 0.5
Std Dev 0

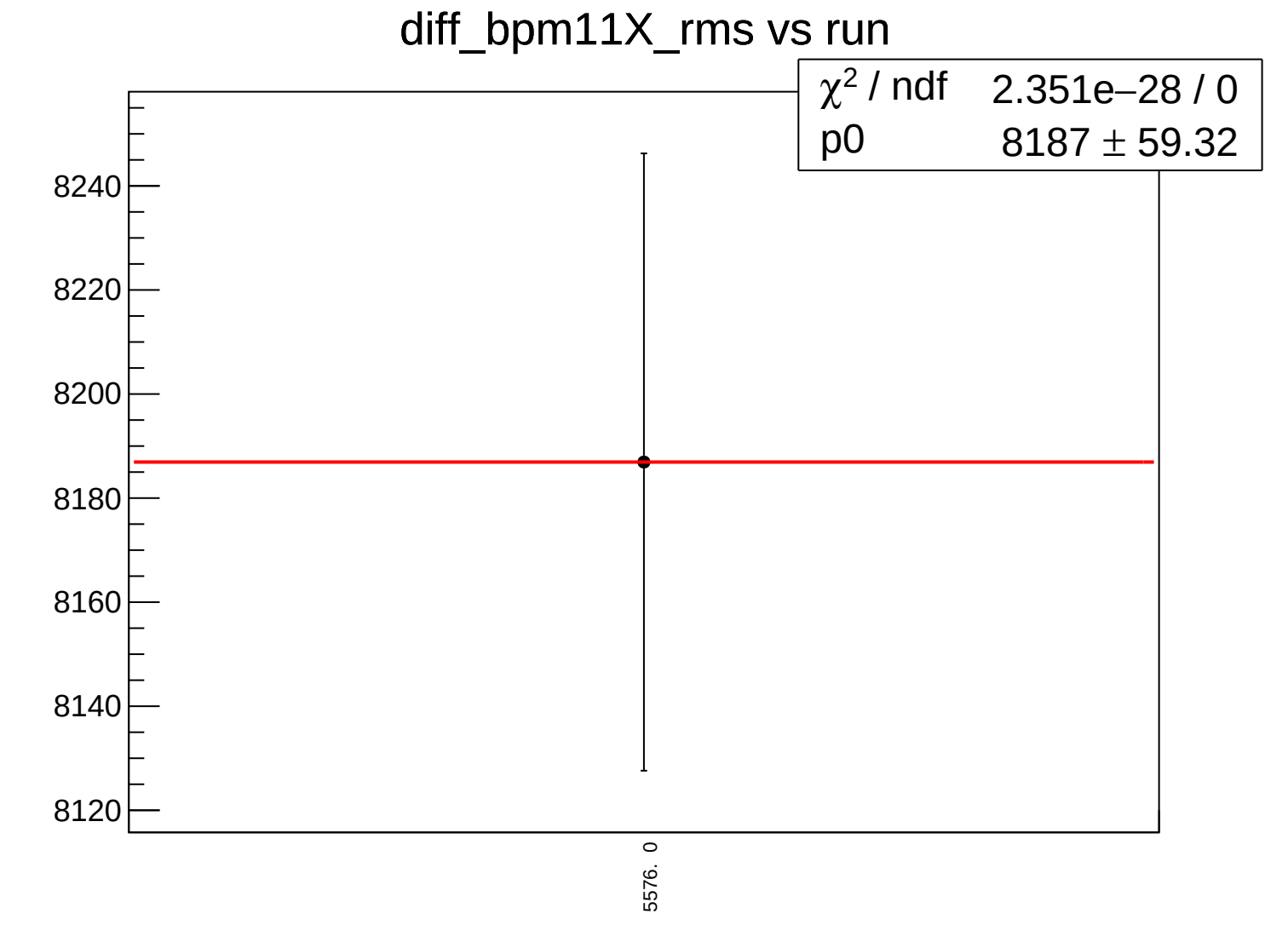

pull1D
Entries 1
Mean 2.374e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

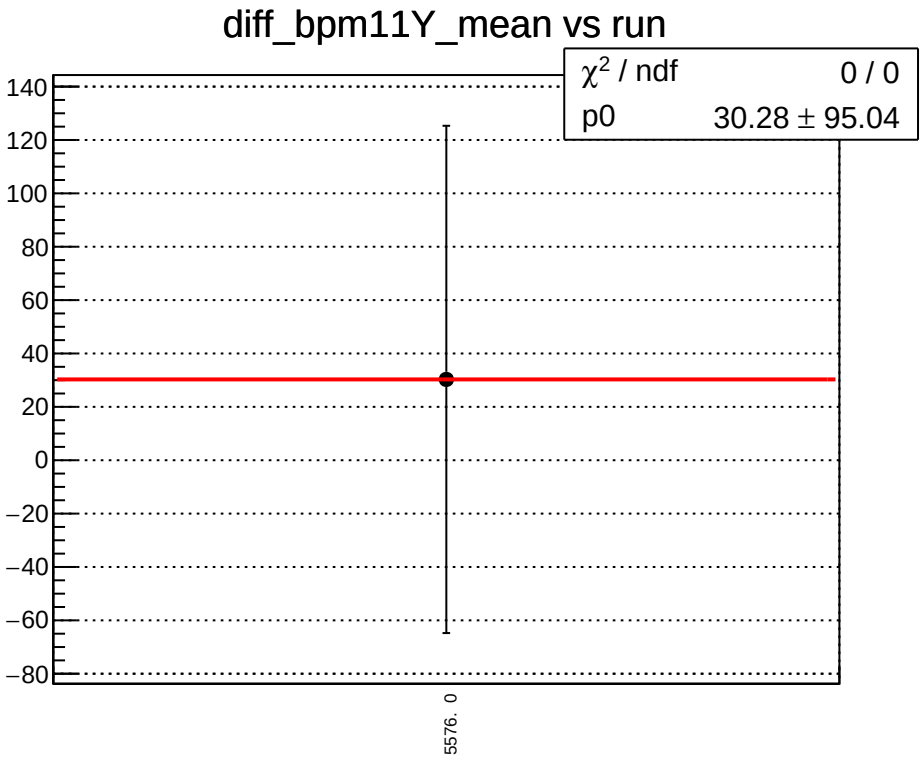

diff_bpm1Y_rms vs run
χ² / ndf 7.567e−28 / 0
p0 9126 ± 66.12
9200
9180
9160
9140
9120
9100
9080
9060
5576. 0

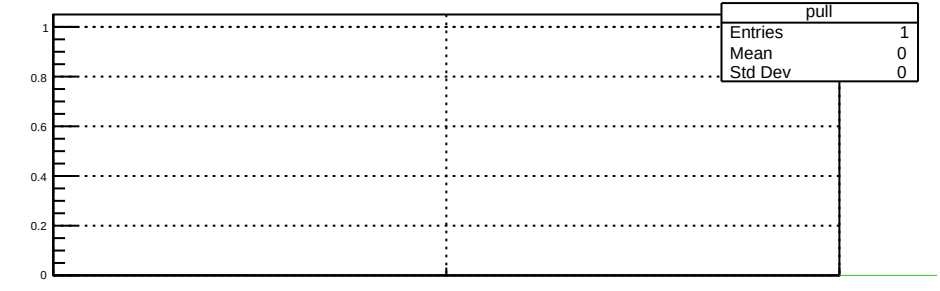

diff_bpm11X_mean vs run
χ² / ndf 0 / 0
p0 −64.2 ± 83.89
20
0
−20
−40
−60
−80
−100
−120
−140
−160
5576. 0

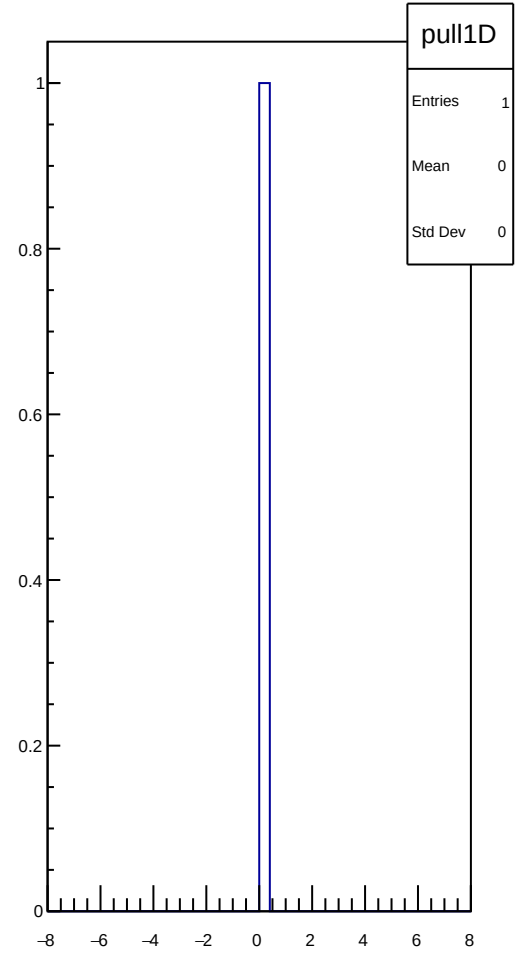

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_bpm11X_rms vs run
χ² / ndf 2.351e−28 / 0
p0 8187 ± 59.32
8240
8220
8200
8180
8160
8140
8120
5576. 0


diff_bpm11Y_mean vs run
χ² / ndf 0 / 0
p0 30.28 ± 95.04
140
120
100
80
60
40
20
0
−20
−40
−60
−80
5576. 0


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


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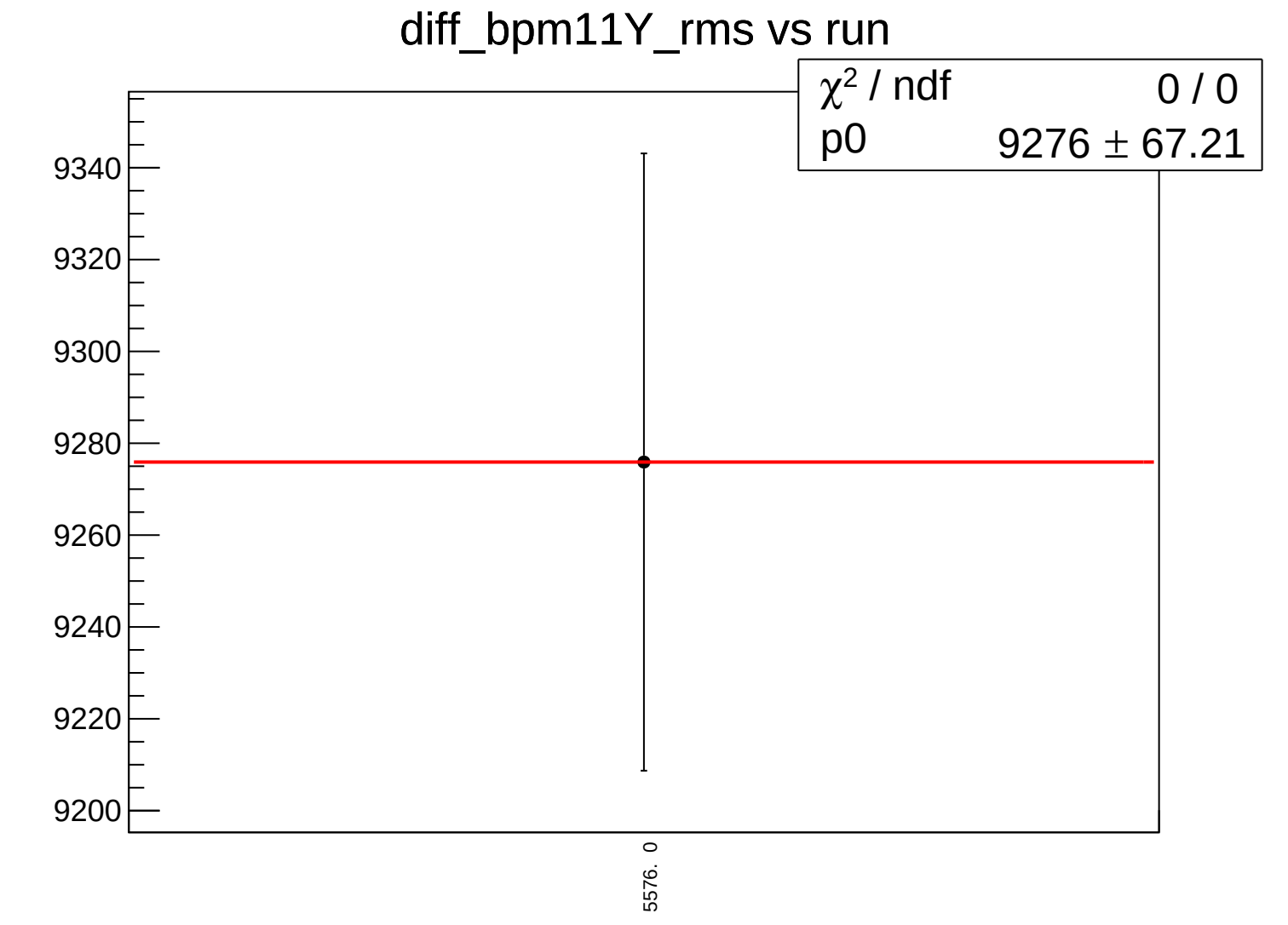
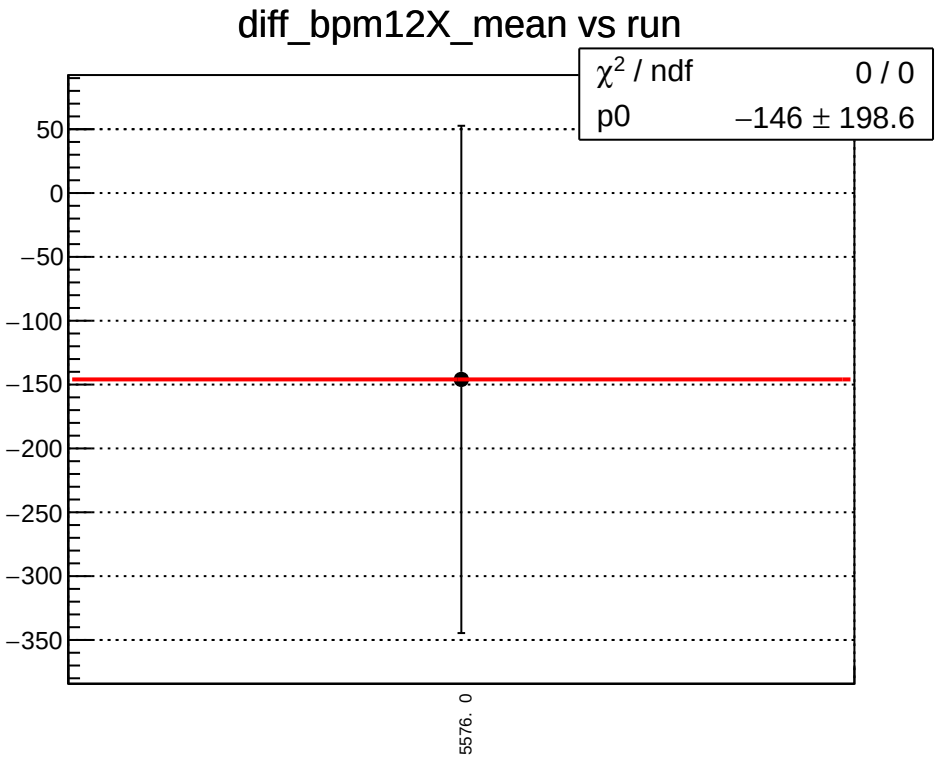
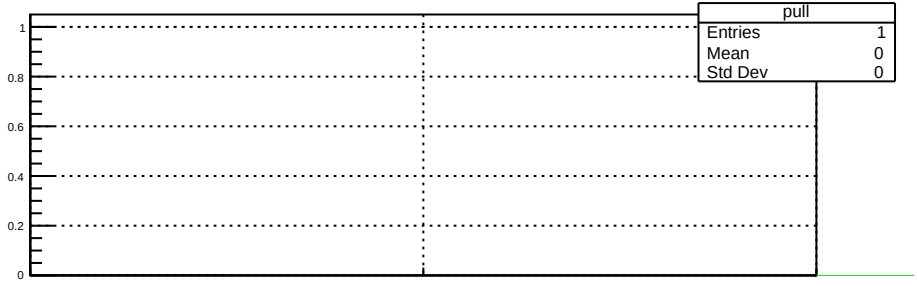
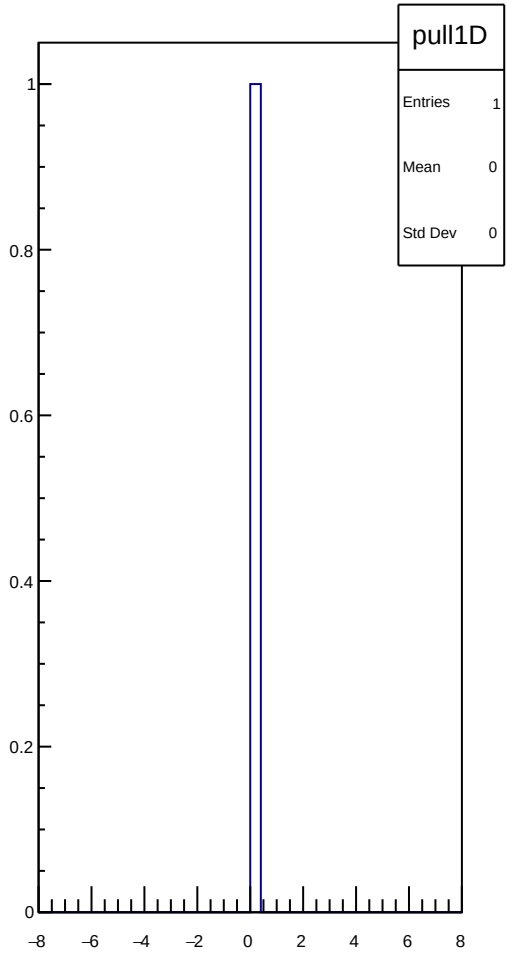
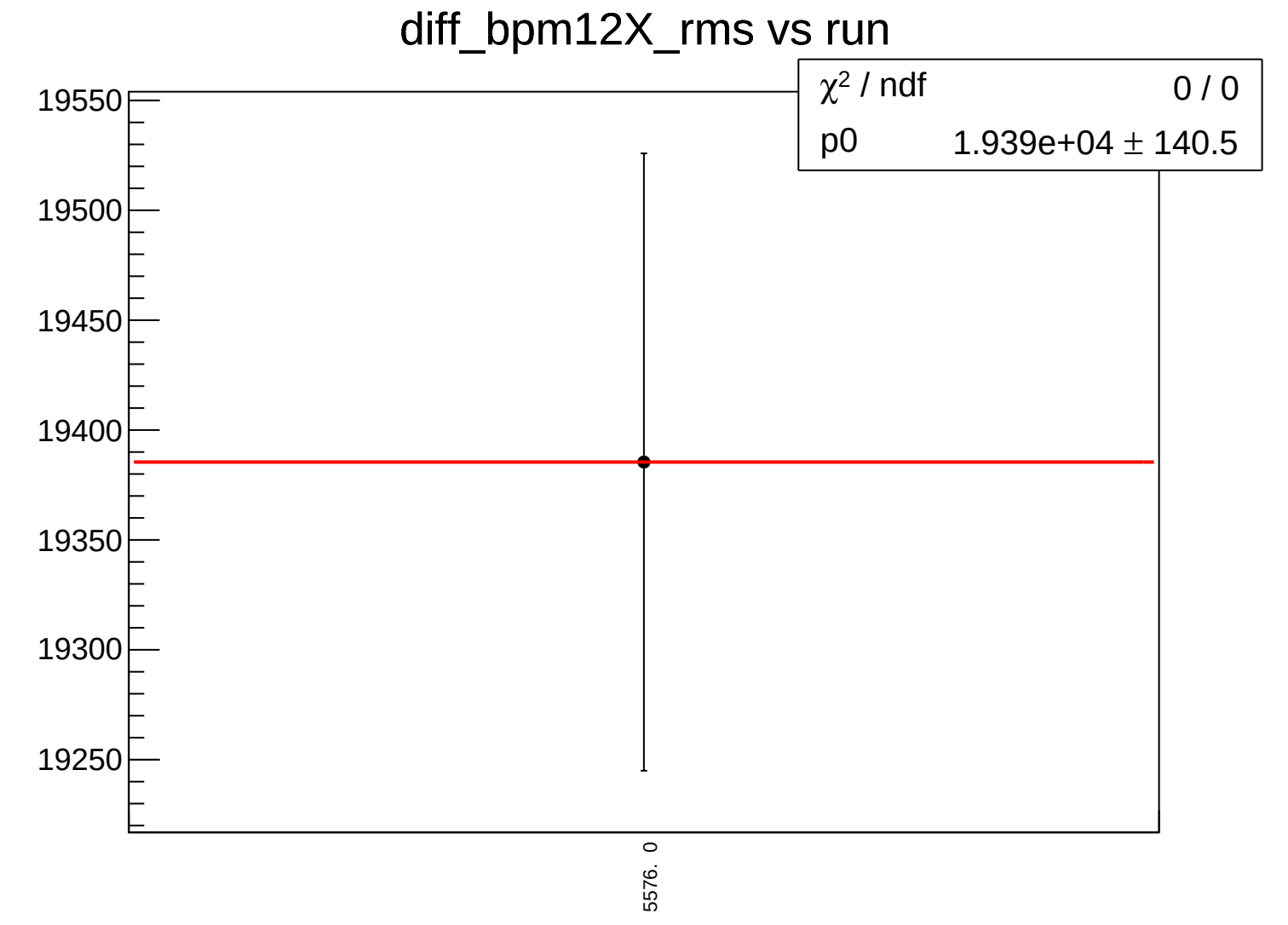
0
2
4
6
8

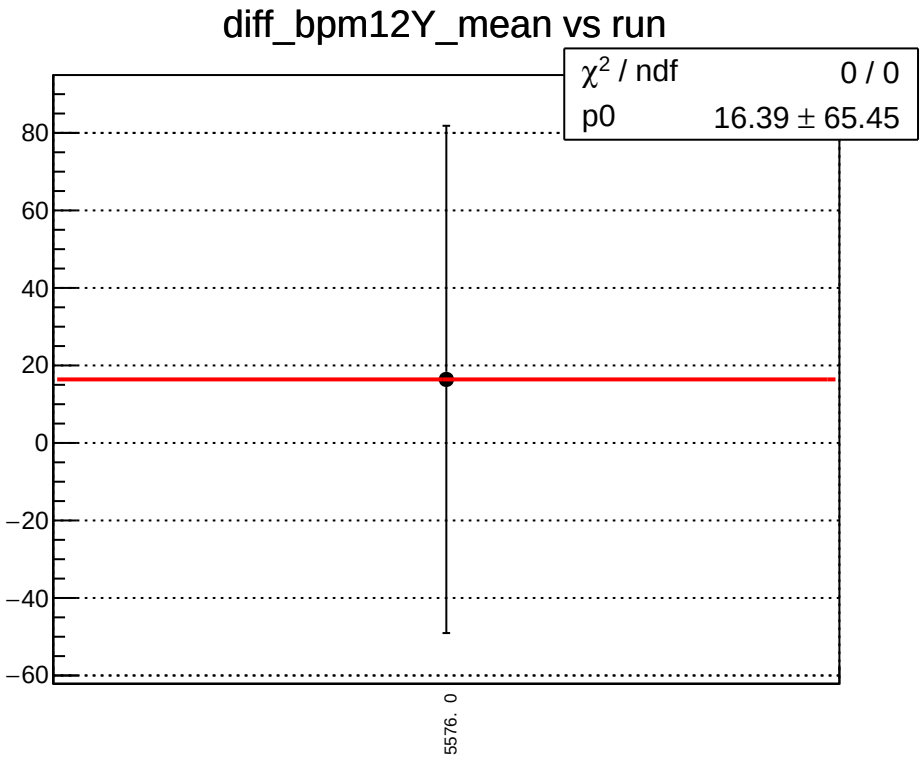

diff_bpm11Y_rms vs run
χ² / ndf 0 / 0
p0 9276 ± 67.21
9340
9320
9300
9280
9260
9240
9220
9200
5576. 0

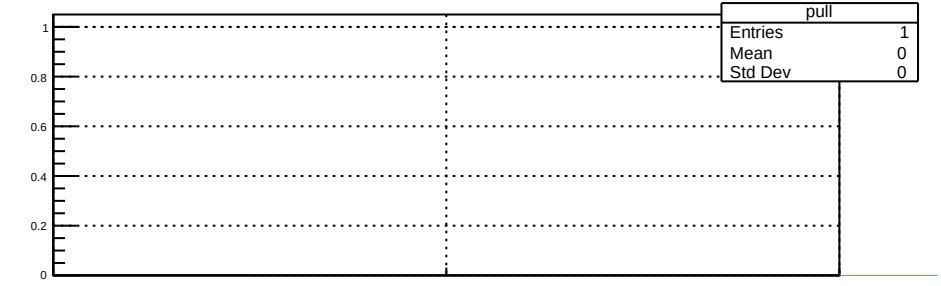

diff_bpm12X_mean vs run
χ² / ndf 0 / 0
p0 −146 ± 198.6
50
0
−50
−100
−150
−200
−250
−300
−350
5576. 0

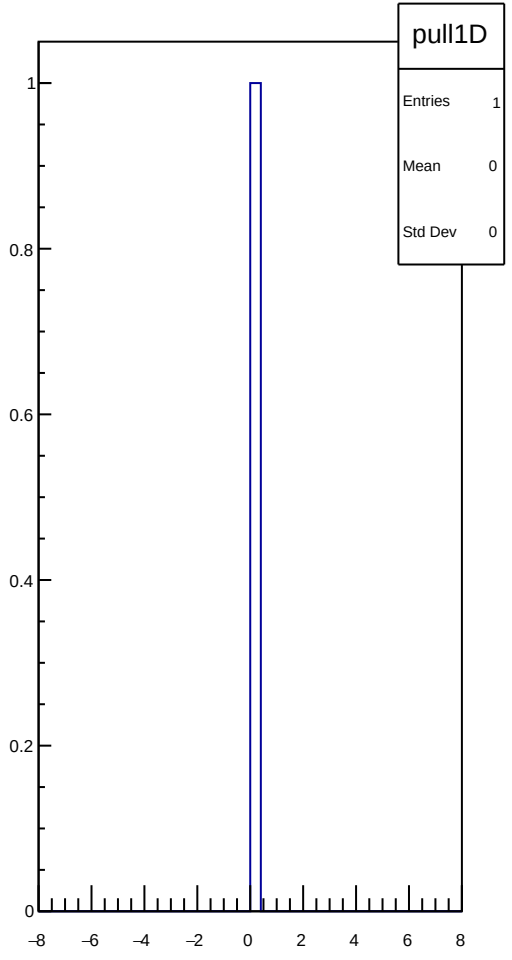

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

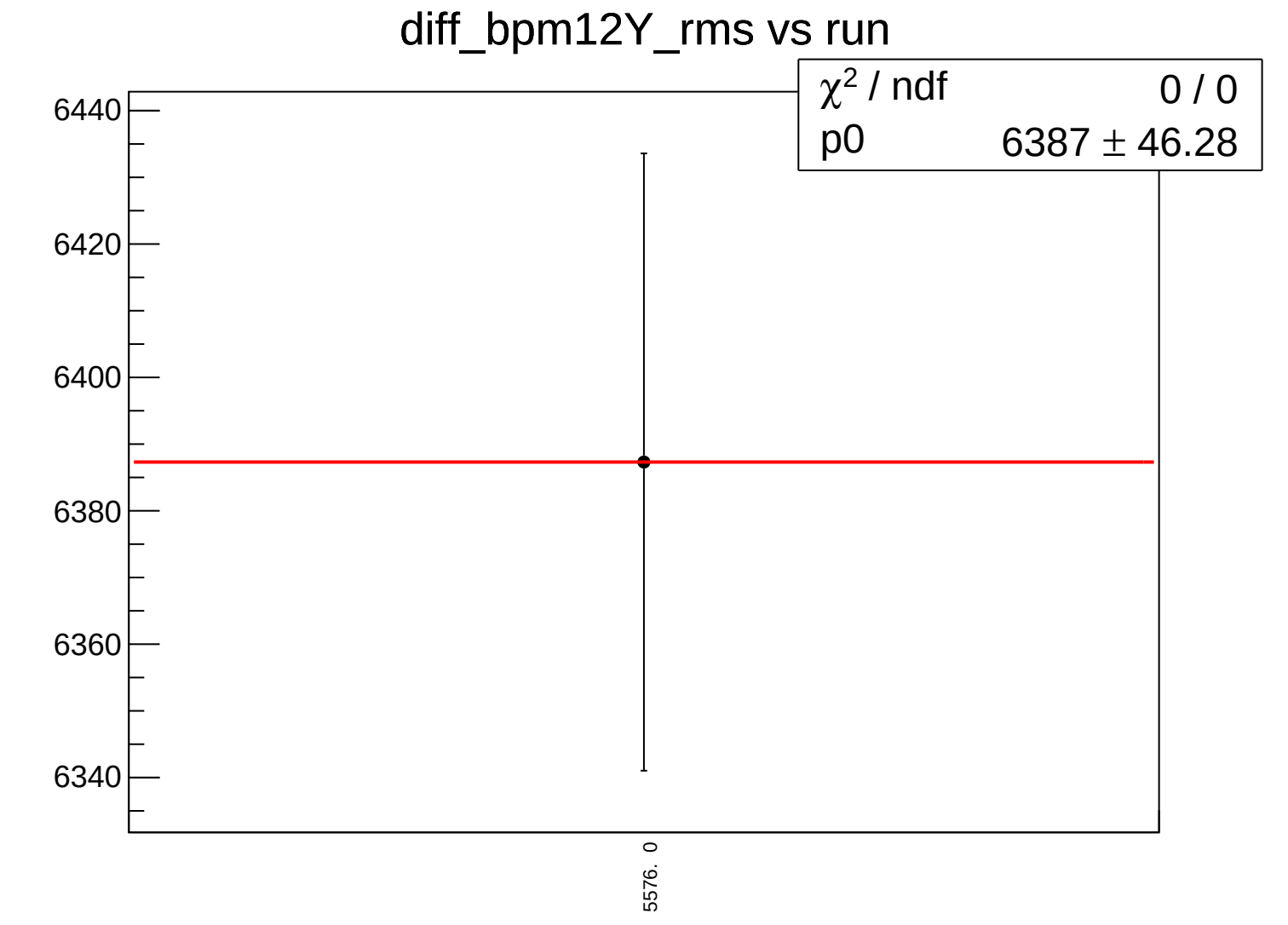

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

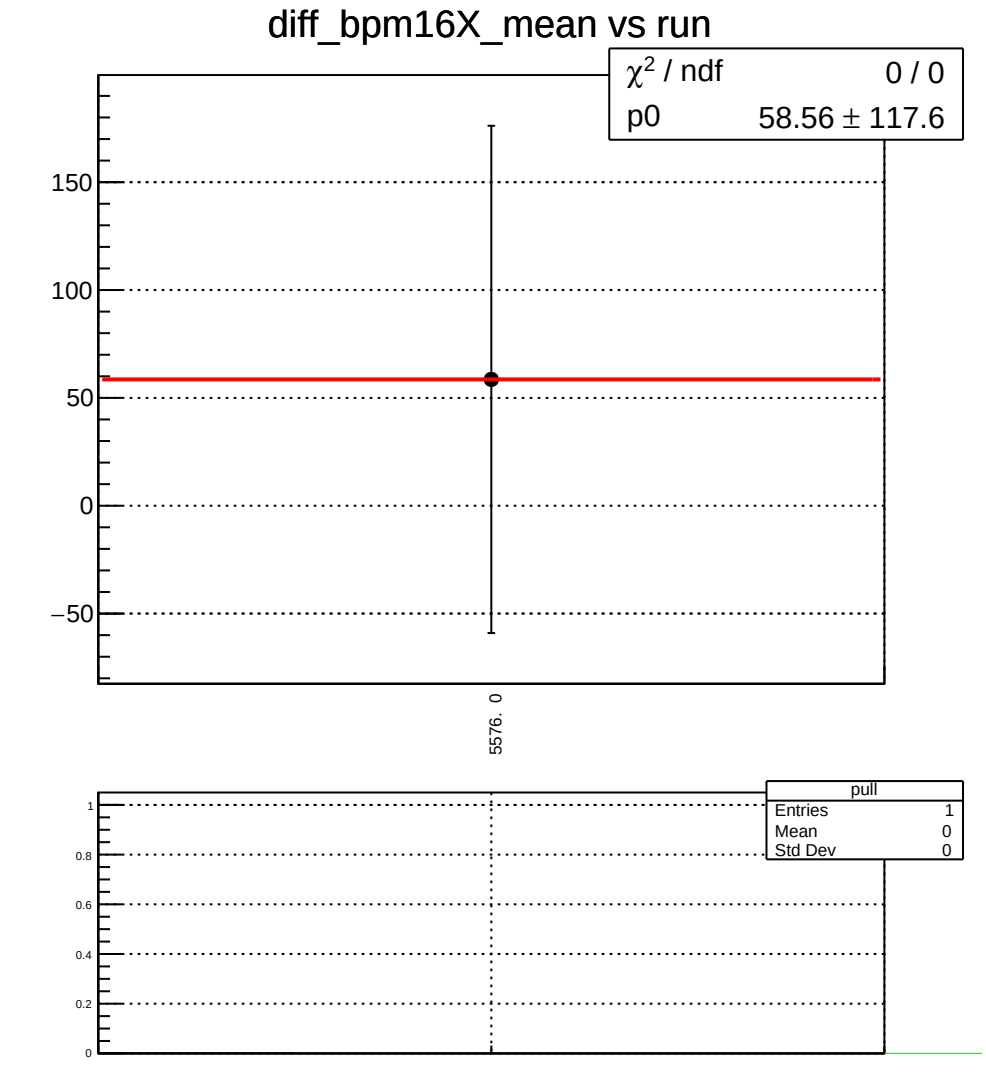

diff_bpm12X_rms vs run
χ² / ndf 0 / 0
p0 1.939e+04 ± 140.5
19550
19500
19450
19400
19350
19300
19250
5576. 0

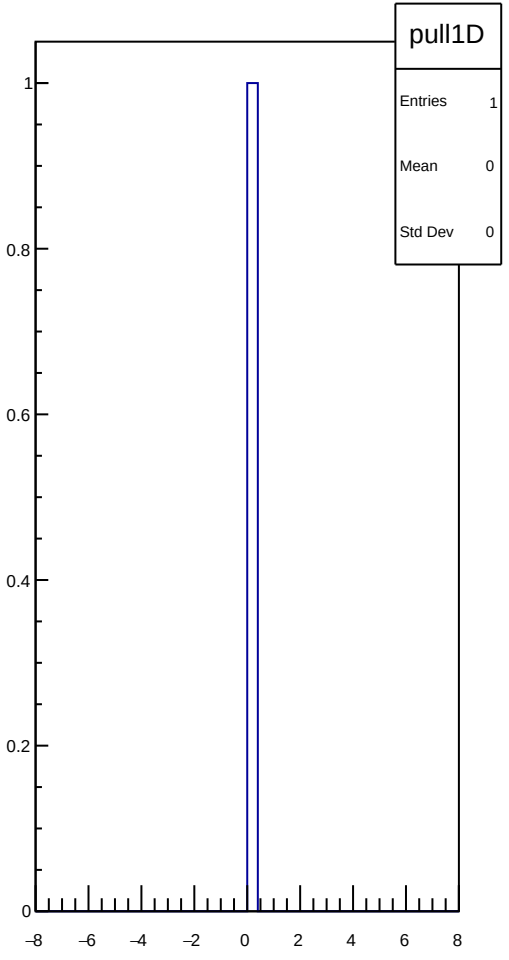

diff_bpm12Y_mean vs run
χ² / ndf 0 / 0
p0 16.39 ± 65.45
80
60
40
20
0
−20
−40
−60
5576. 0


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


pull1D
Entries 1
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_bpm12Y_rms vs run
χ² / ndf 0 / 0
p0 6387 ± 46.28
6440
6420
6400
6380
6360
6340
5576. 0


diff_bpm16X_mean vs run
χ² / ndf 0 / 0
p0 58.56 ± 117.6
150
100
50
0
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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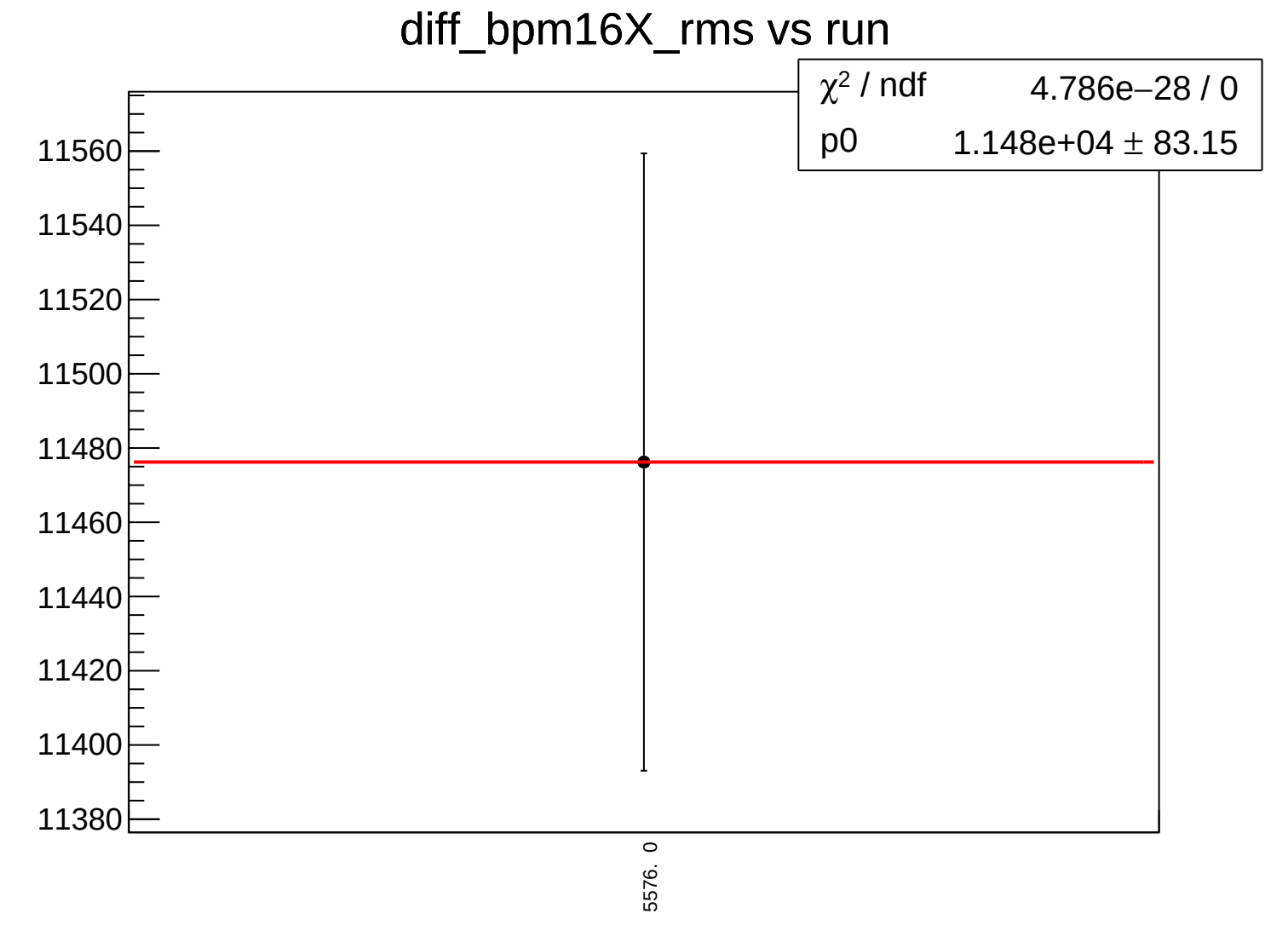
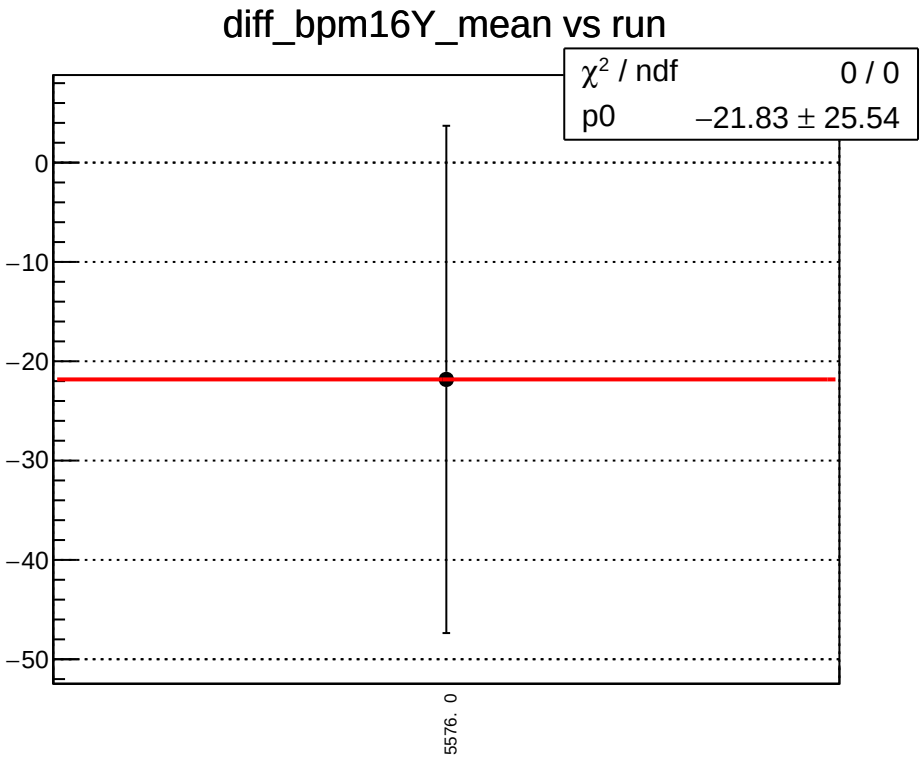
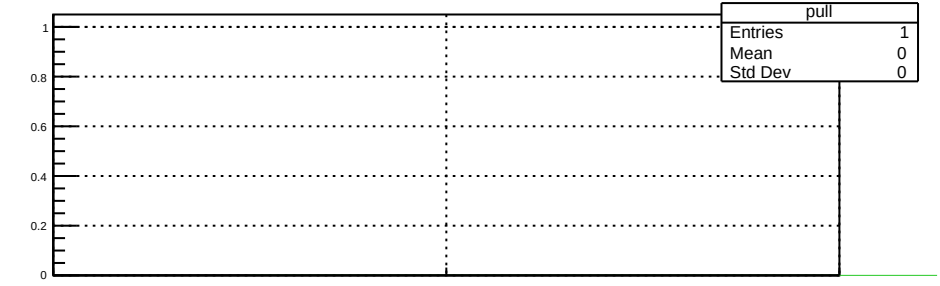
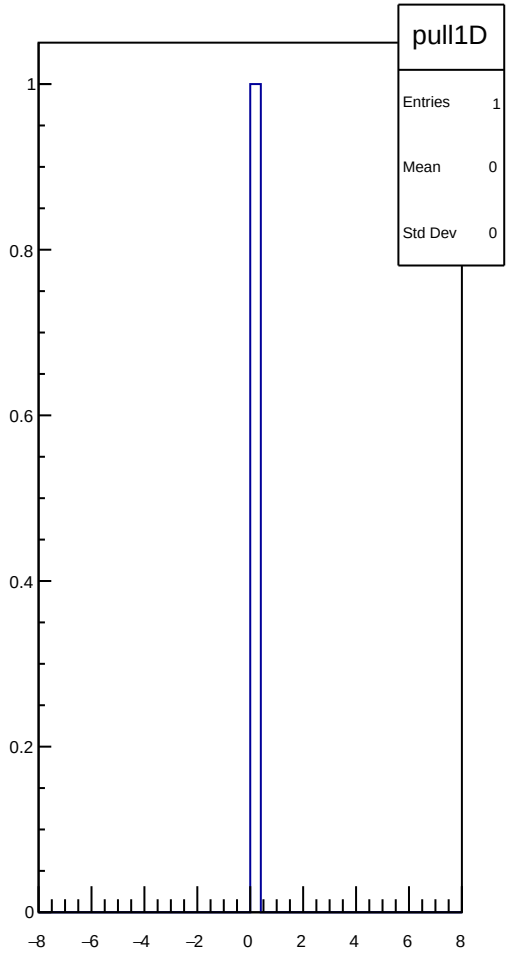
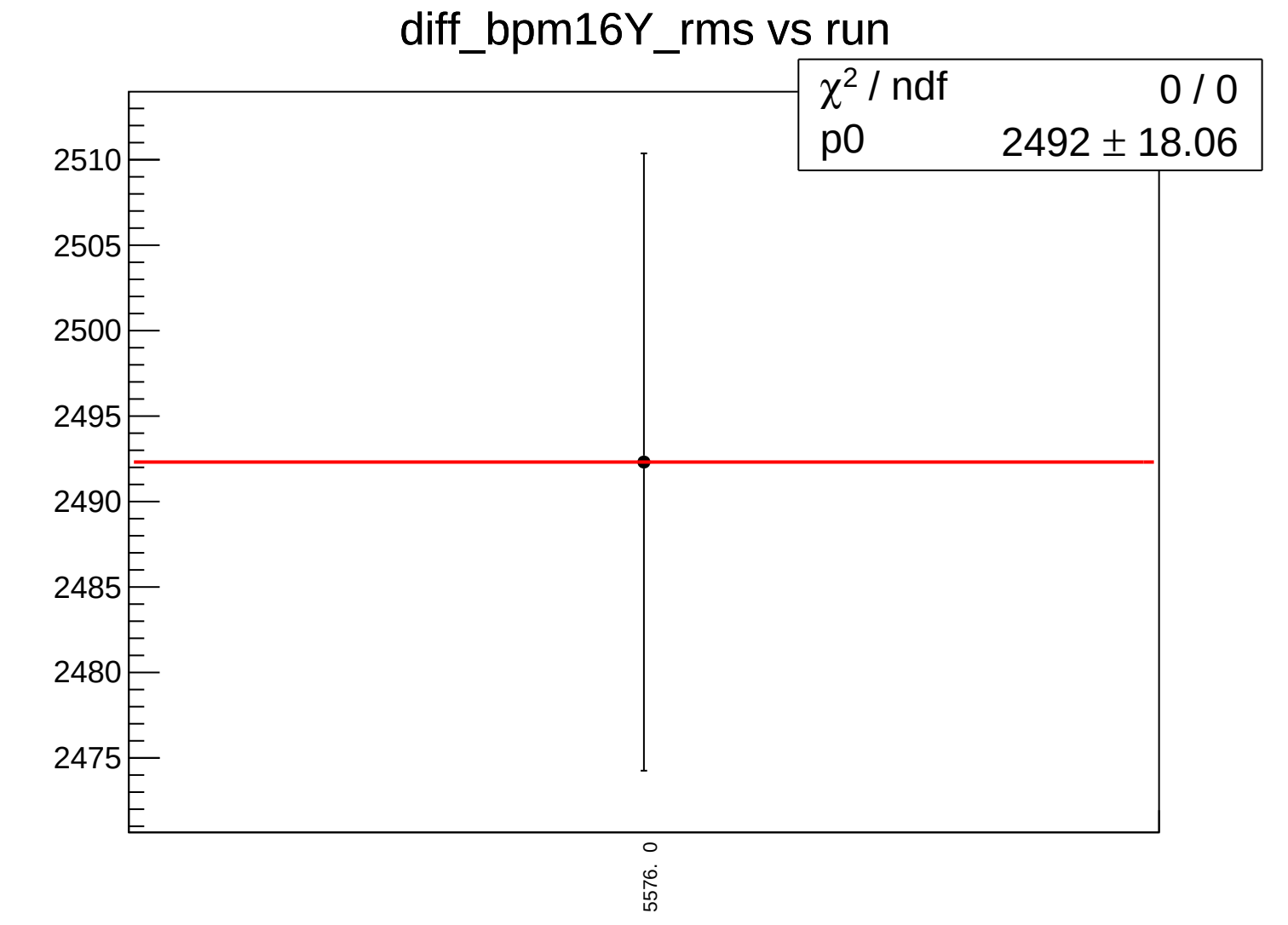
2
4
6
8

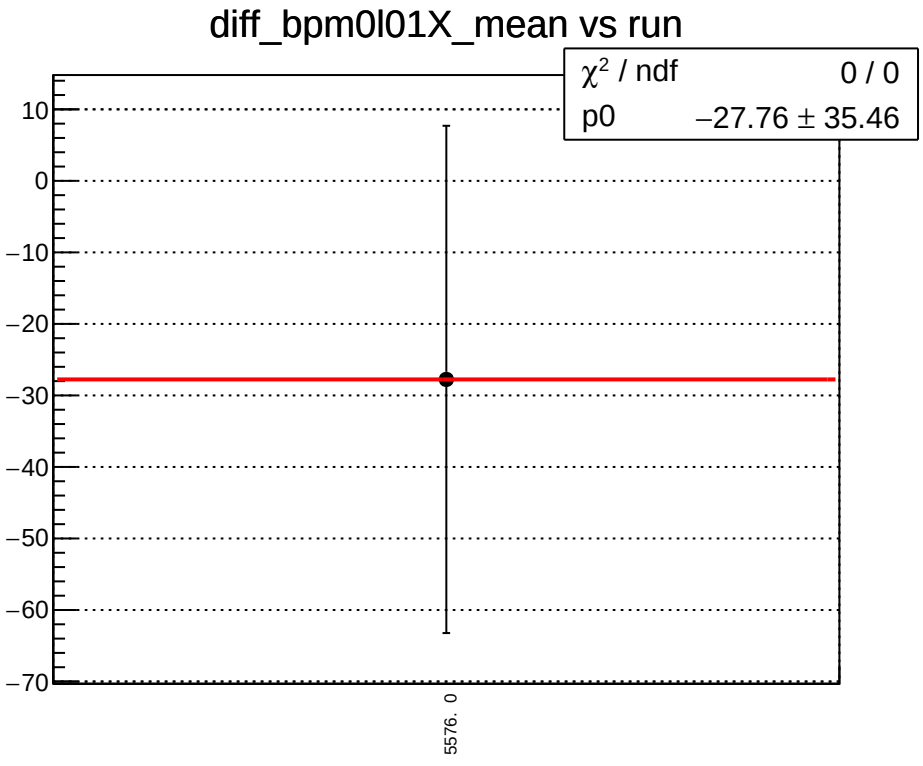

diff_bpm16X_rms vs run
χ² / ndf 4.786e−28 / 0
p0 1.148e+04 ± 83.15
11560
11540
11520
11500
11480
11460
11440
11420
11400
11380
5576. 0

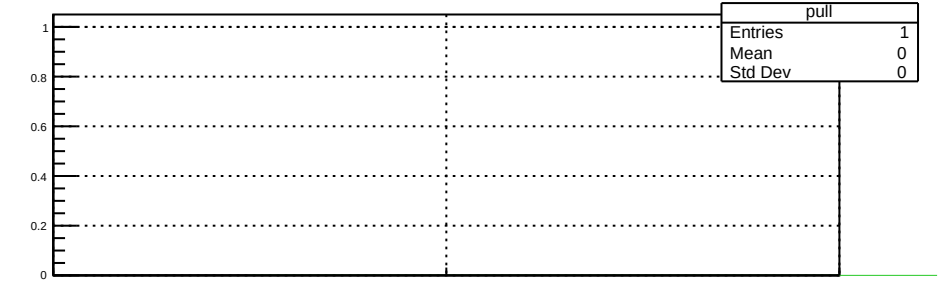

diff_bpm16Y_mean vs run
χ² / ndf 0 / 0
p0 −21.83 ± 25.54
0
−10
−20
−30
−40
−50
5576. 0

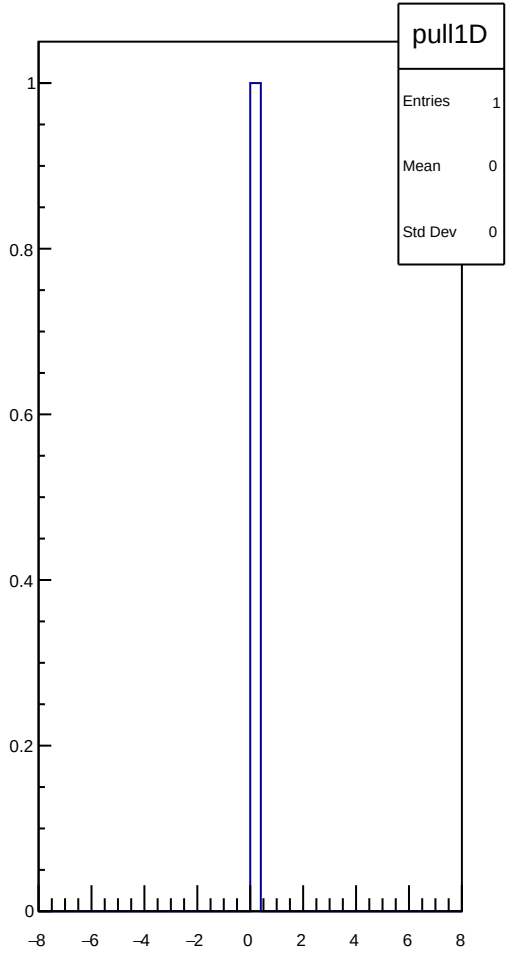

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

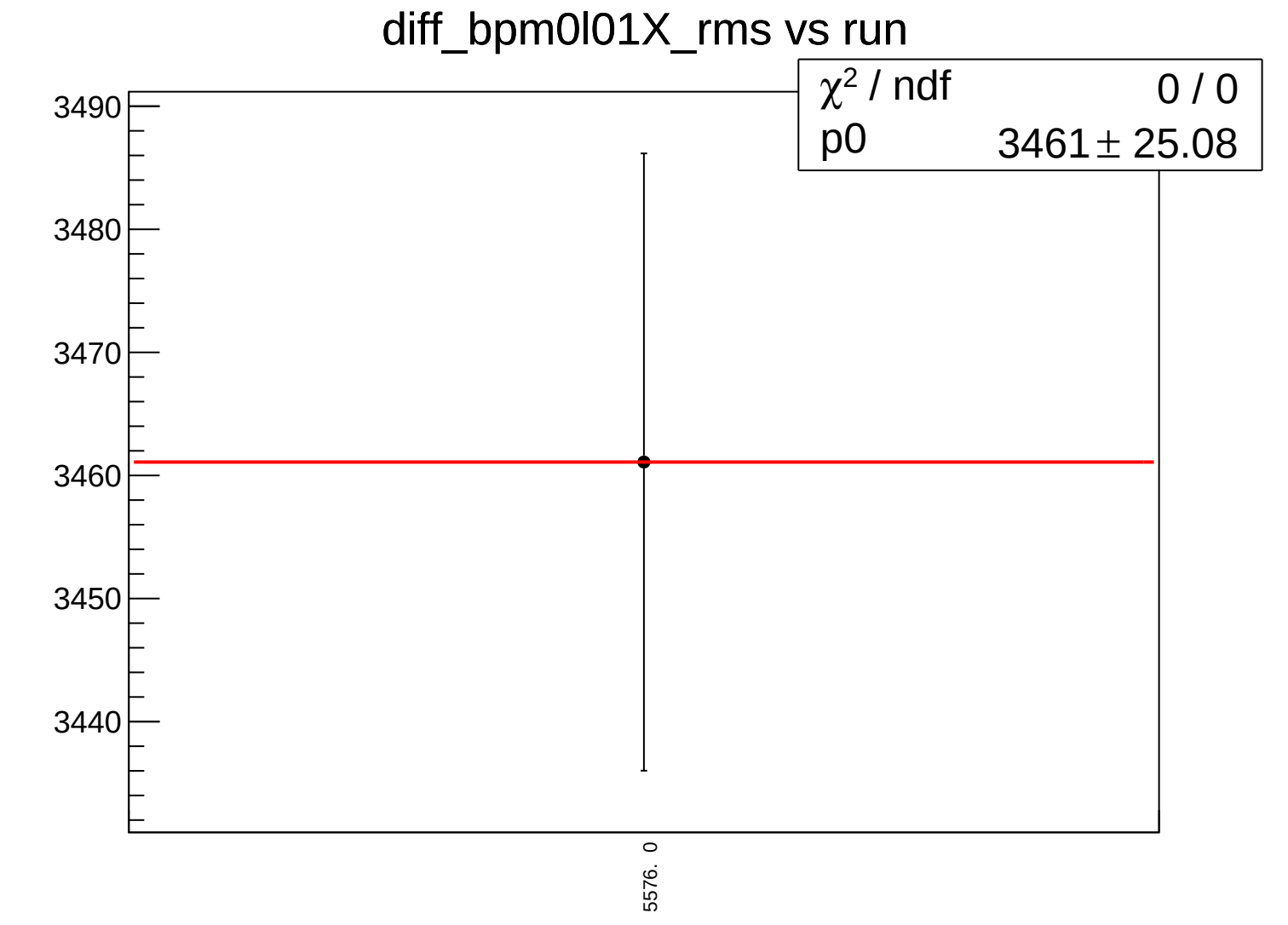

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

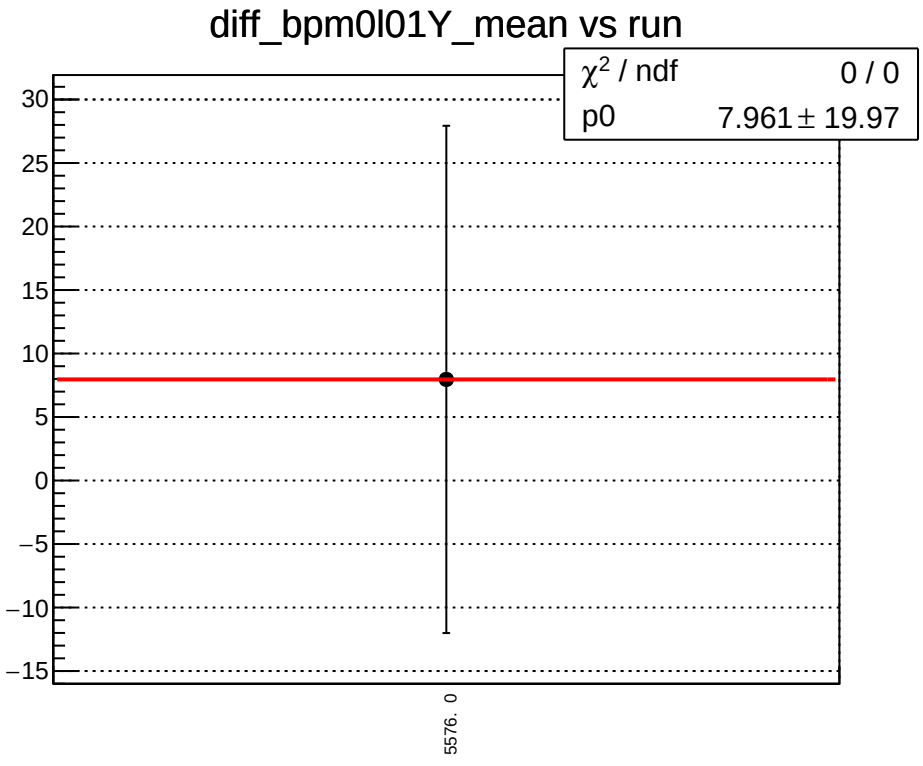

diff_bpm16Y_rms vs run
χ² / ndf 0 / 0
p0 2492 ± 18.06
2510
2505
2500
2495
2490
2485
2480
2475
5576. 0

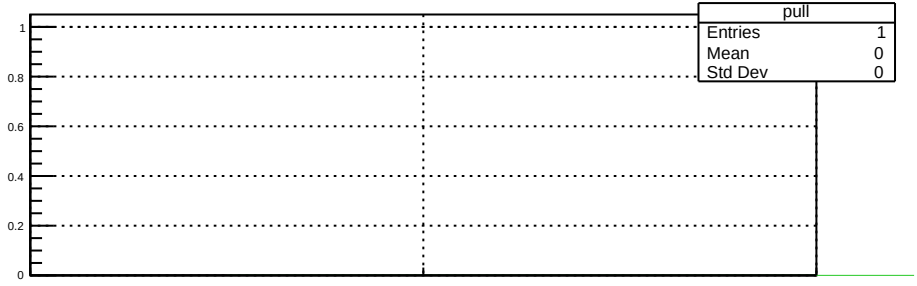

diff_bpm0l01X_mean vs run
χ² / ndf 0 / 0
p0 −27.76 ± 35.46
10
0
−10
−20
−30
−40
−50
−60
−70
5576. 0

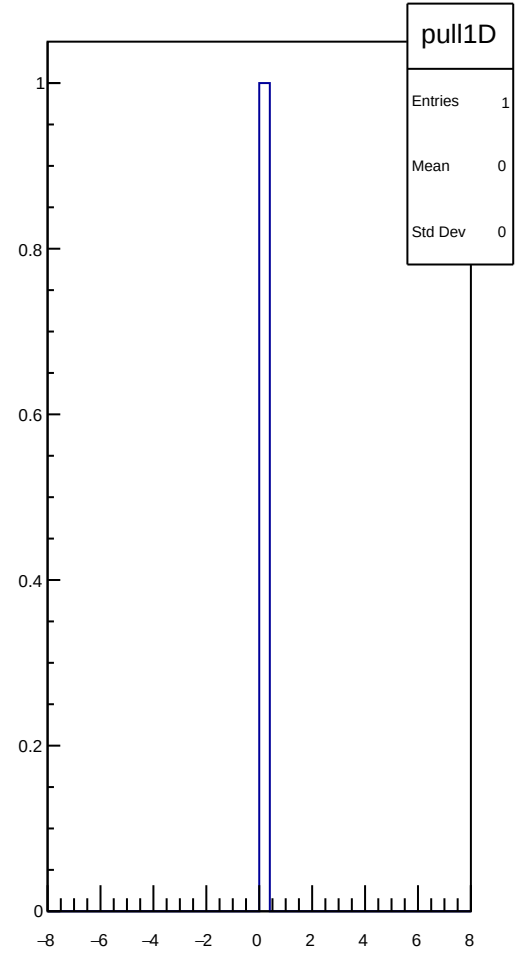

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

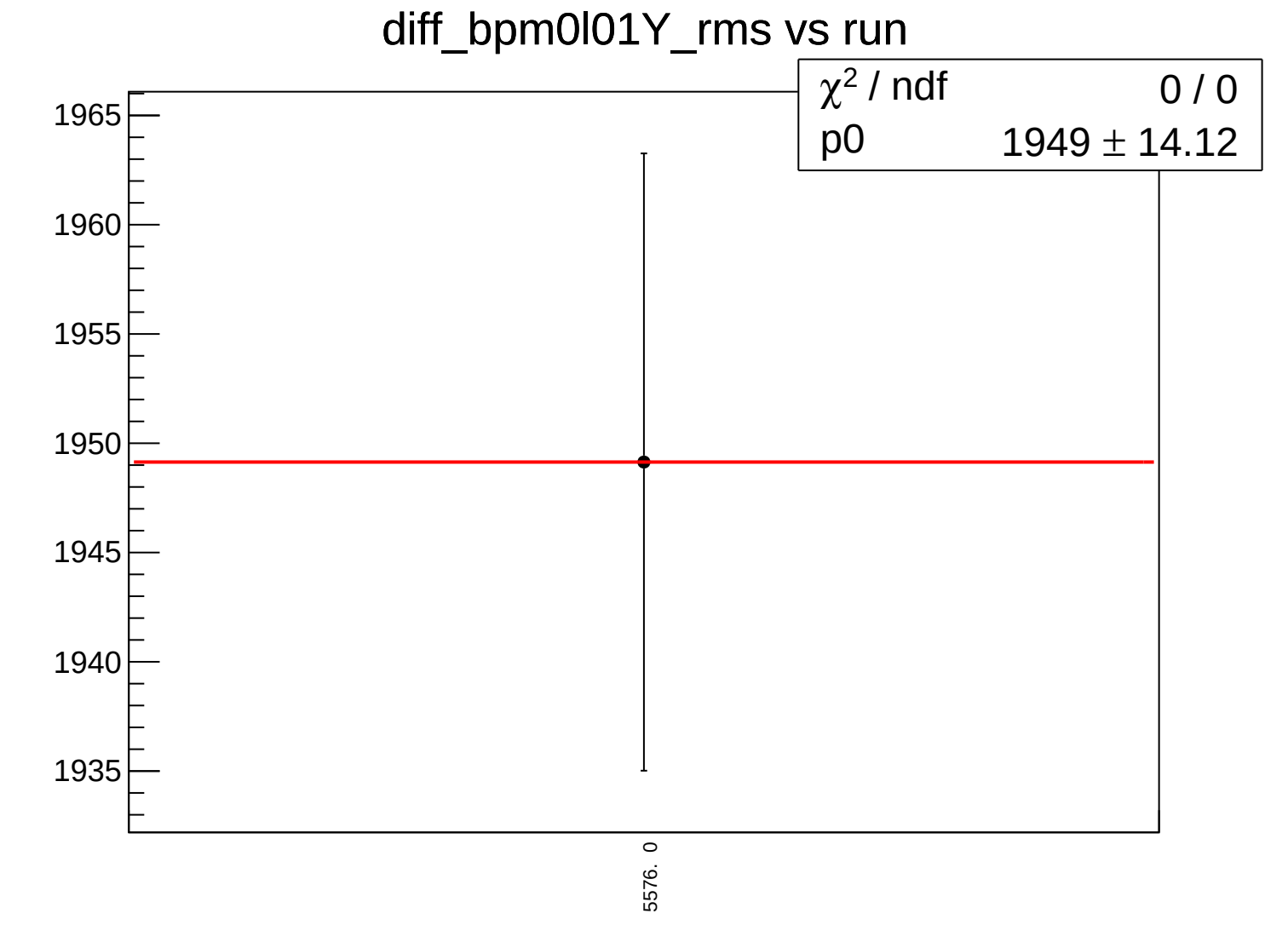

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

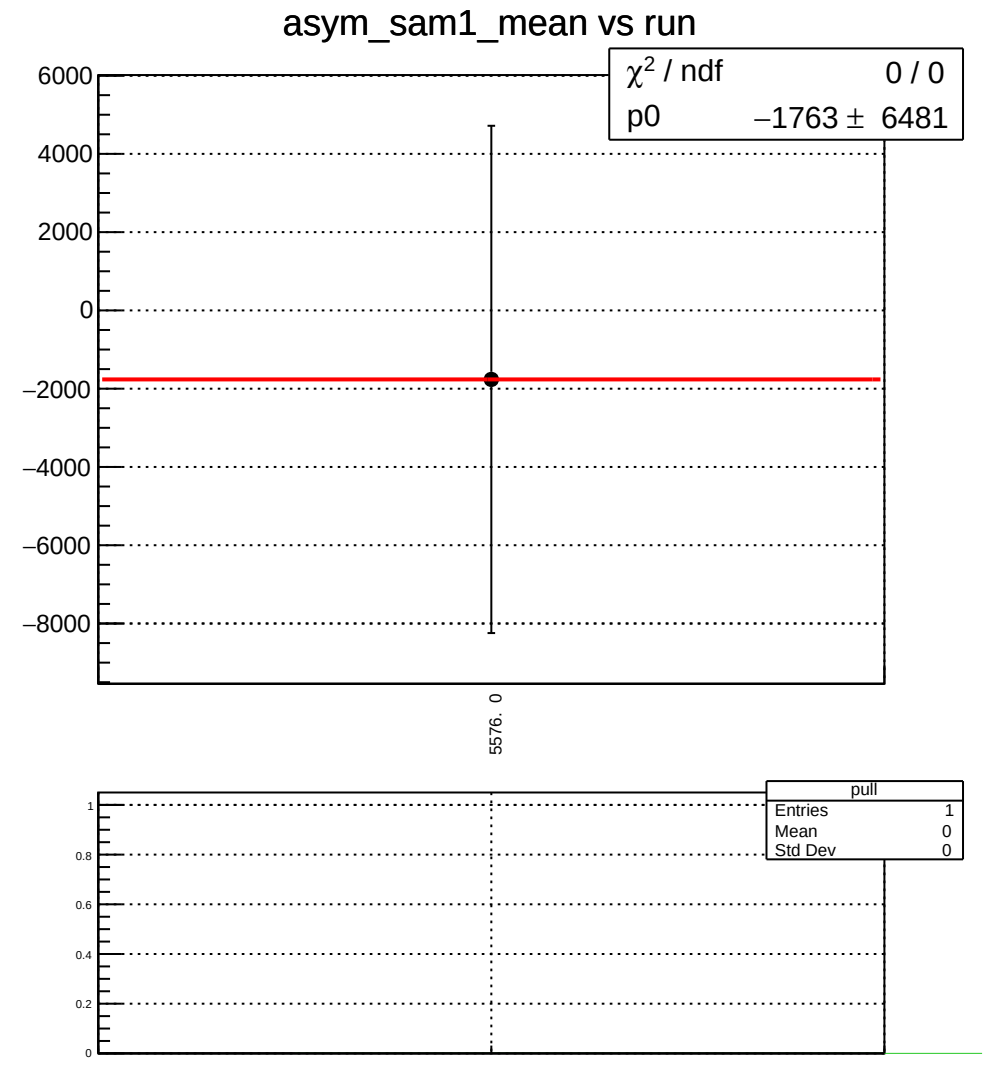

diff_bpm0l01X_rms vs run
χ² / ndf 0 / 0
p0 3461 ± 25.08
3490
3480
3470
3460
3450
3440
5576. 0

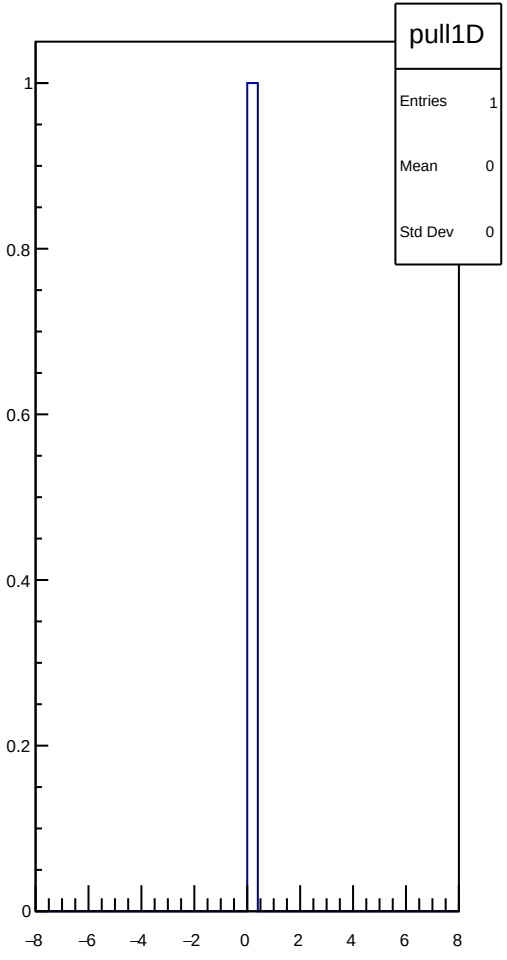

diff_bpm0l01Y_mean vs run
χ² / ndf 0 / 0
p0 7.961 ± 19.97
30
25
20
15
10
5
0
−5
−10
−15
5576. 0

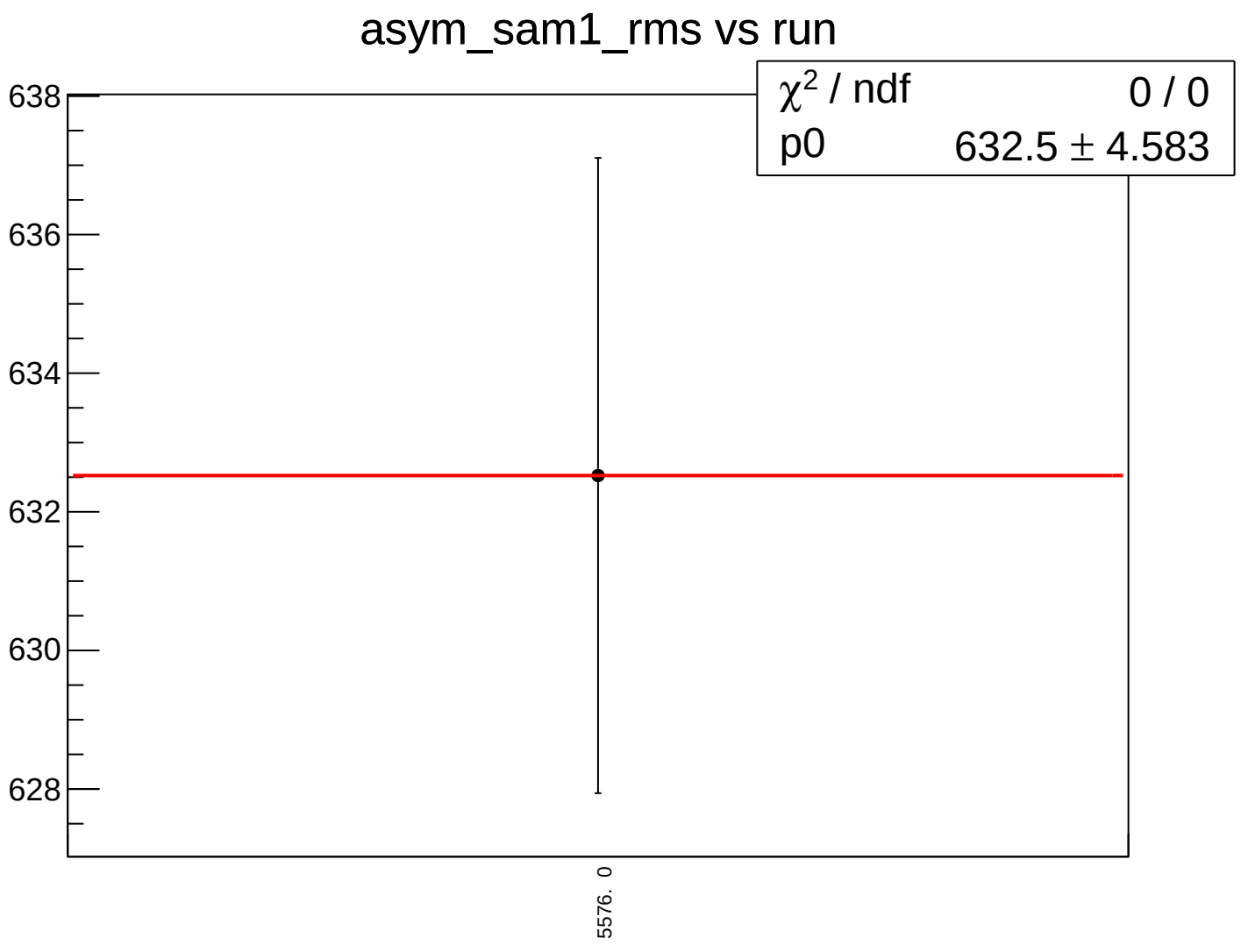

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

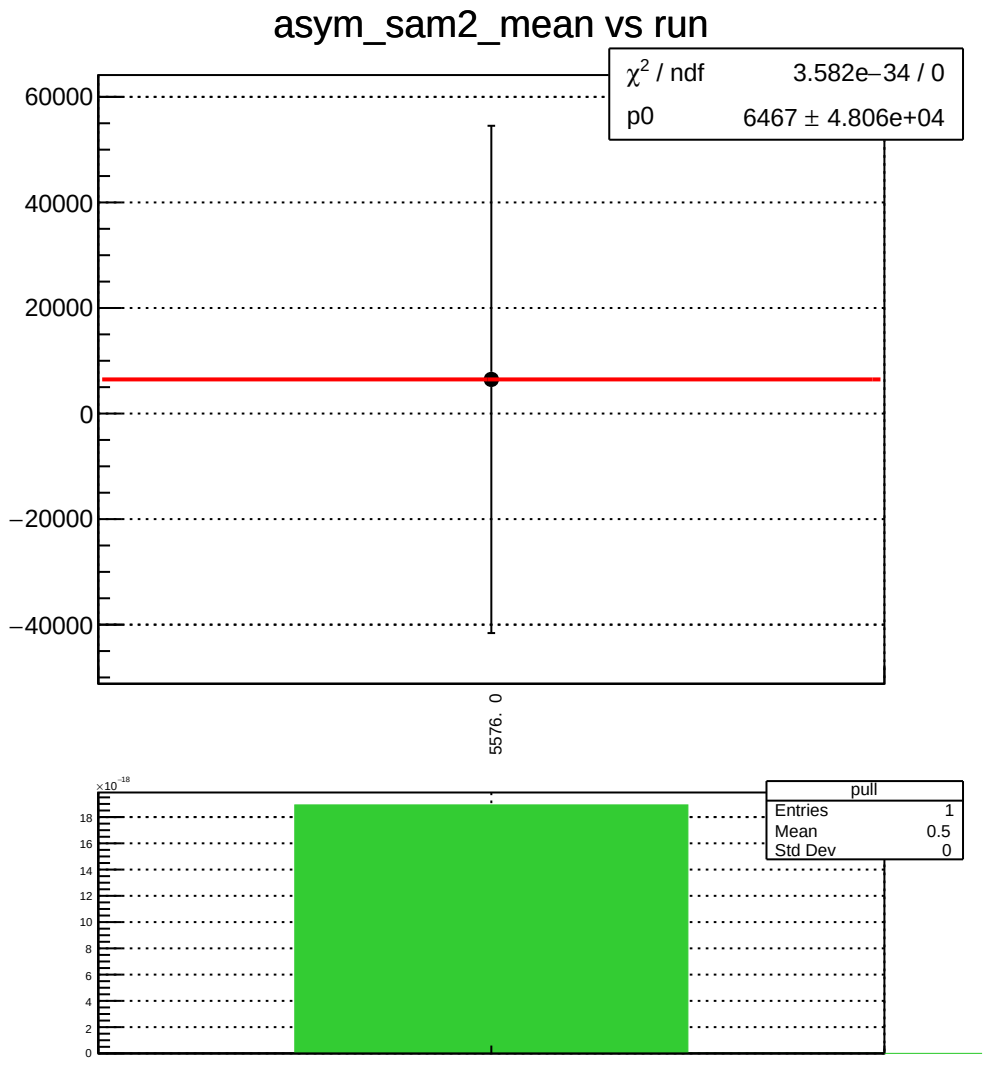

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

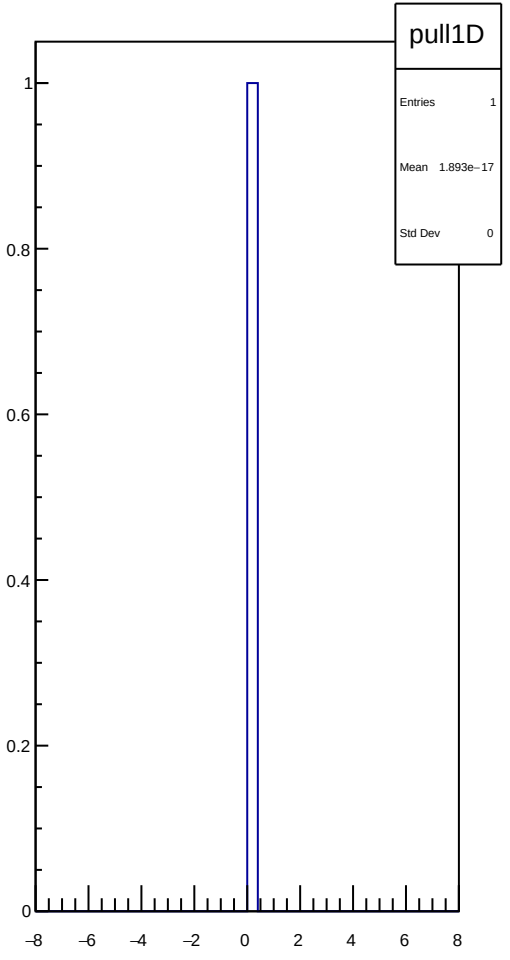

diff_bpm0l01Y_rms vs run
χ² / ndf 0 / 0
p0 1949 ± 14.12
1965
1960
1955
1950
1945
1940
1935
5576. 0

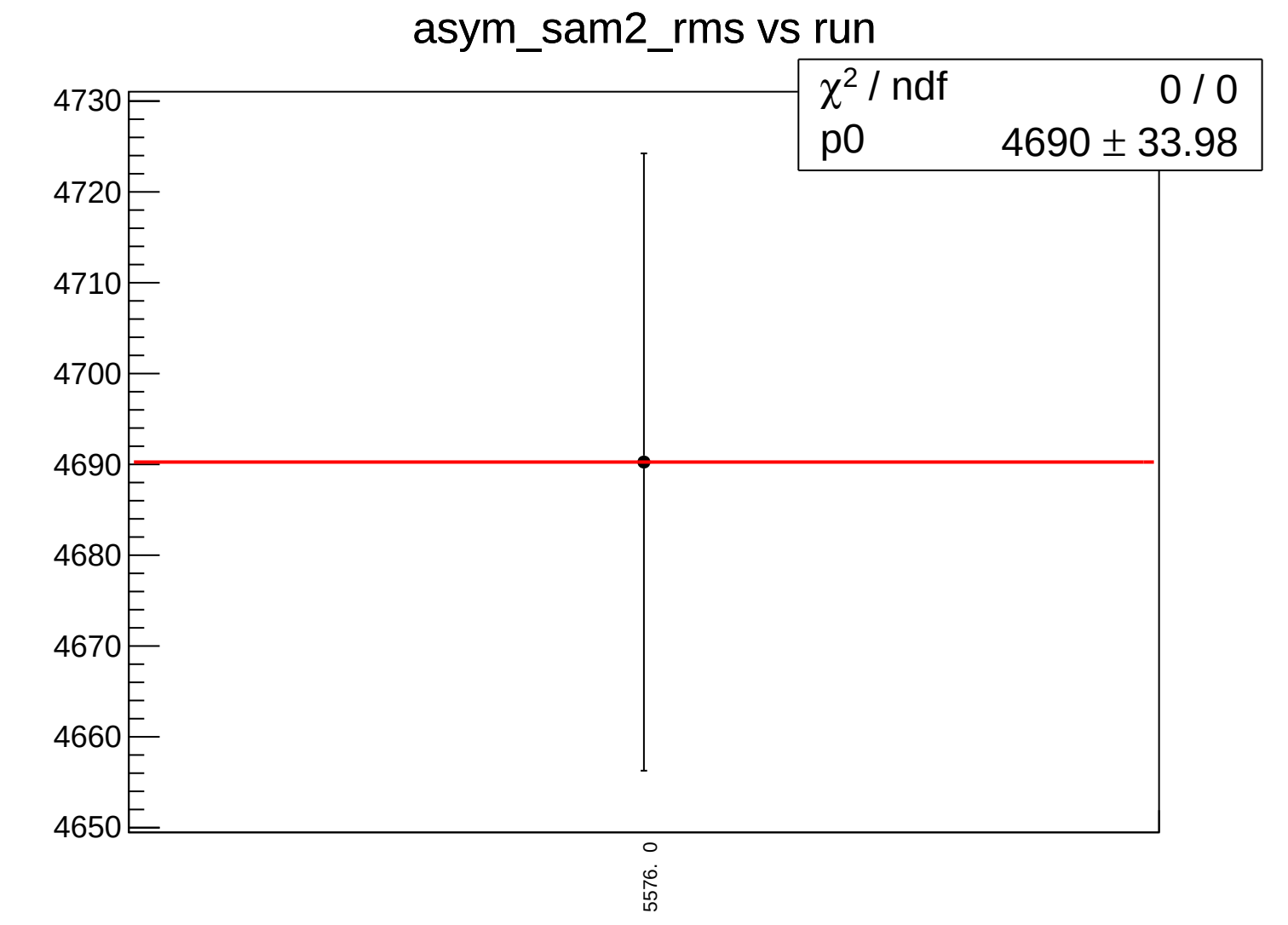

asym_sam1_mean vs run
χ² / ndf 0 / 0
p0 −1763 ± 6481
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

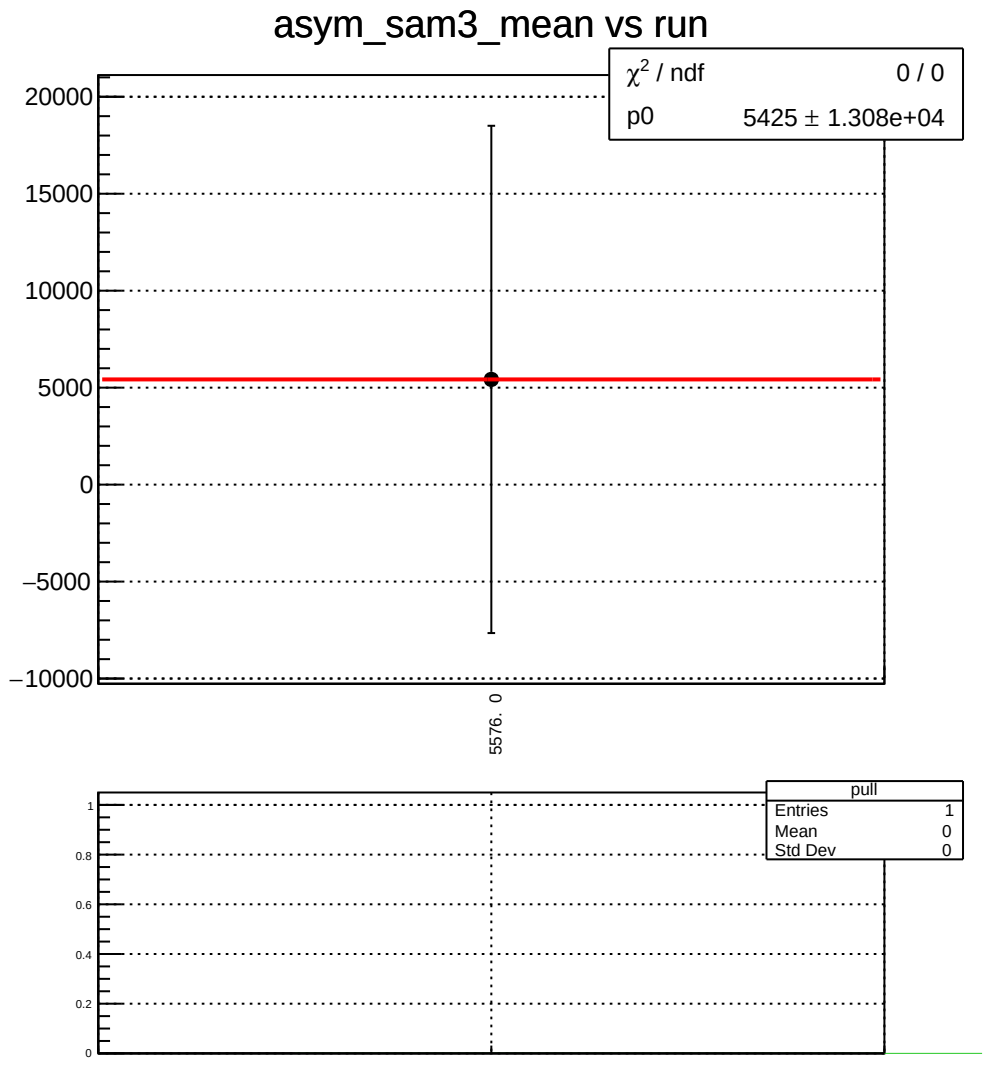

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

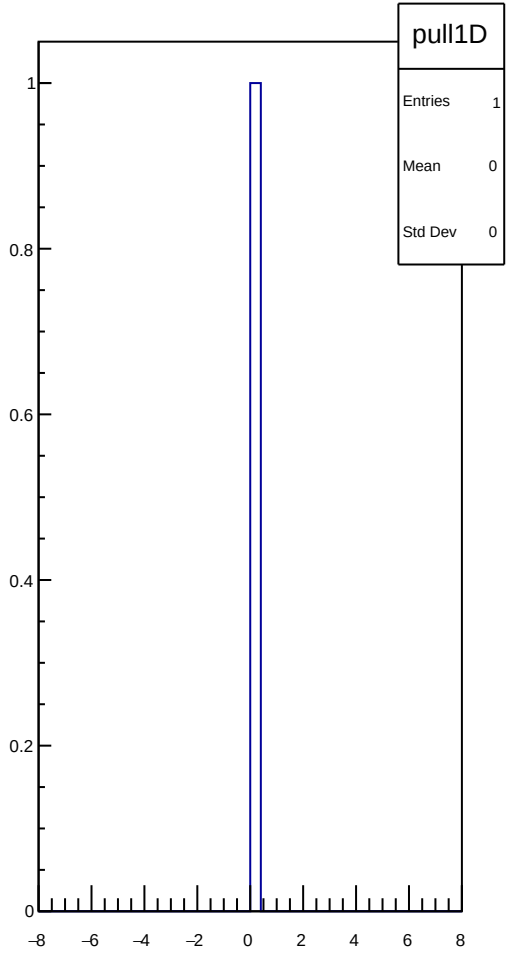

asym_sam1_rms vs run
χ² / ndf 0 / 0
p0 632.5 ± 4.583
638
636
634
632
630
628
5576. 0

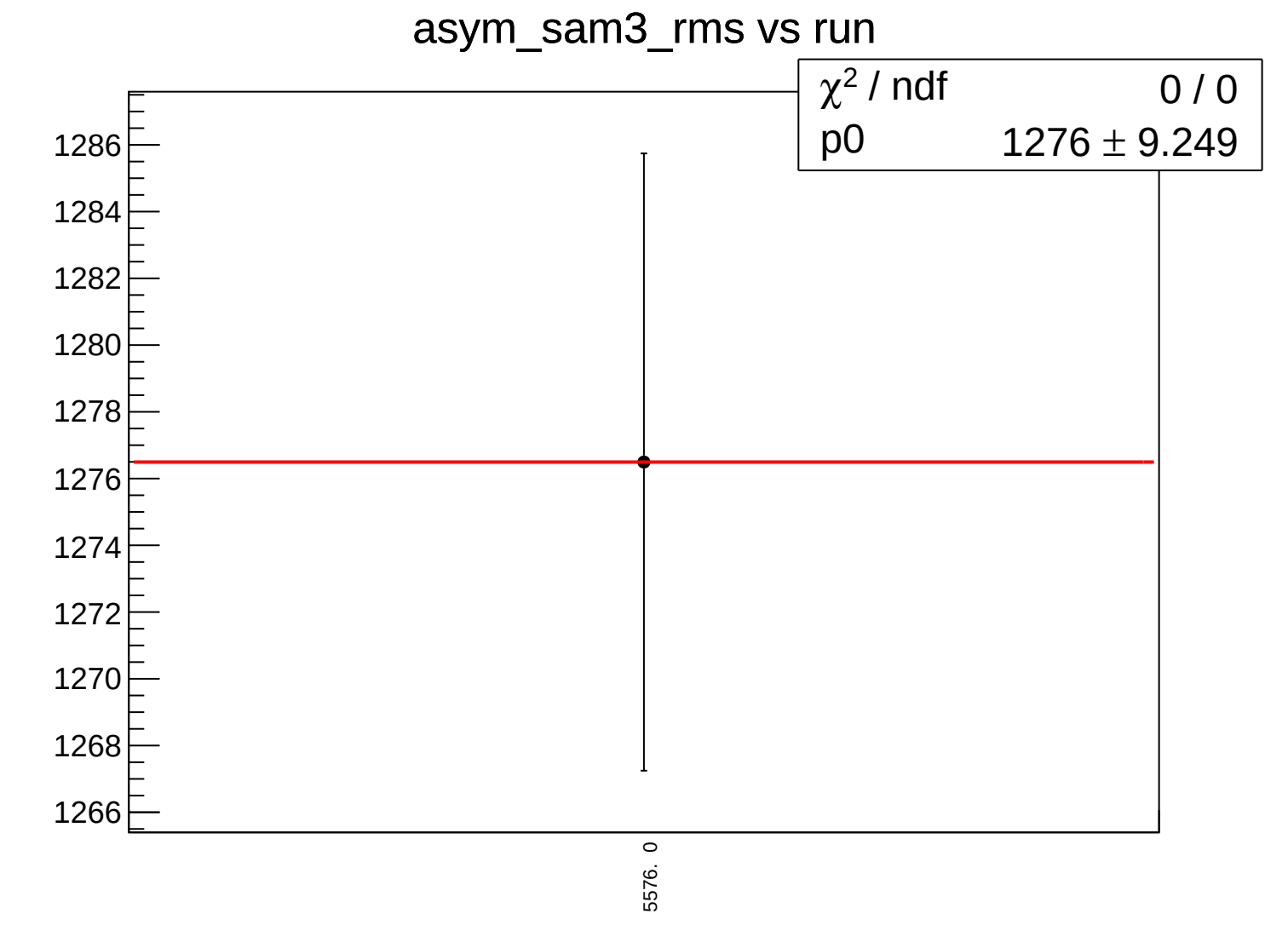

asym_sam2_mean vs run
χ² / ndf 3.582e−34 / 0
p0 6467 ± 4.806e+04
60000
40000
20000
0
−20000
−40000
5576. 0
×10⁻¹⁸
18
16
14
12
10
8
6
4
2
0
pull
Entries 1
Mean 0.5
Std Dev 0

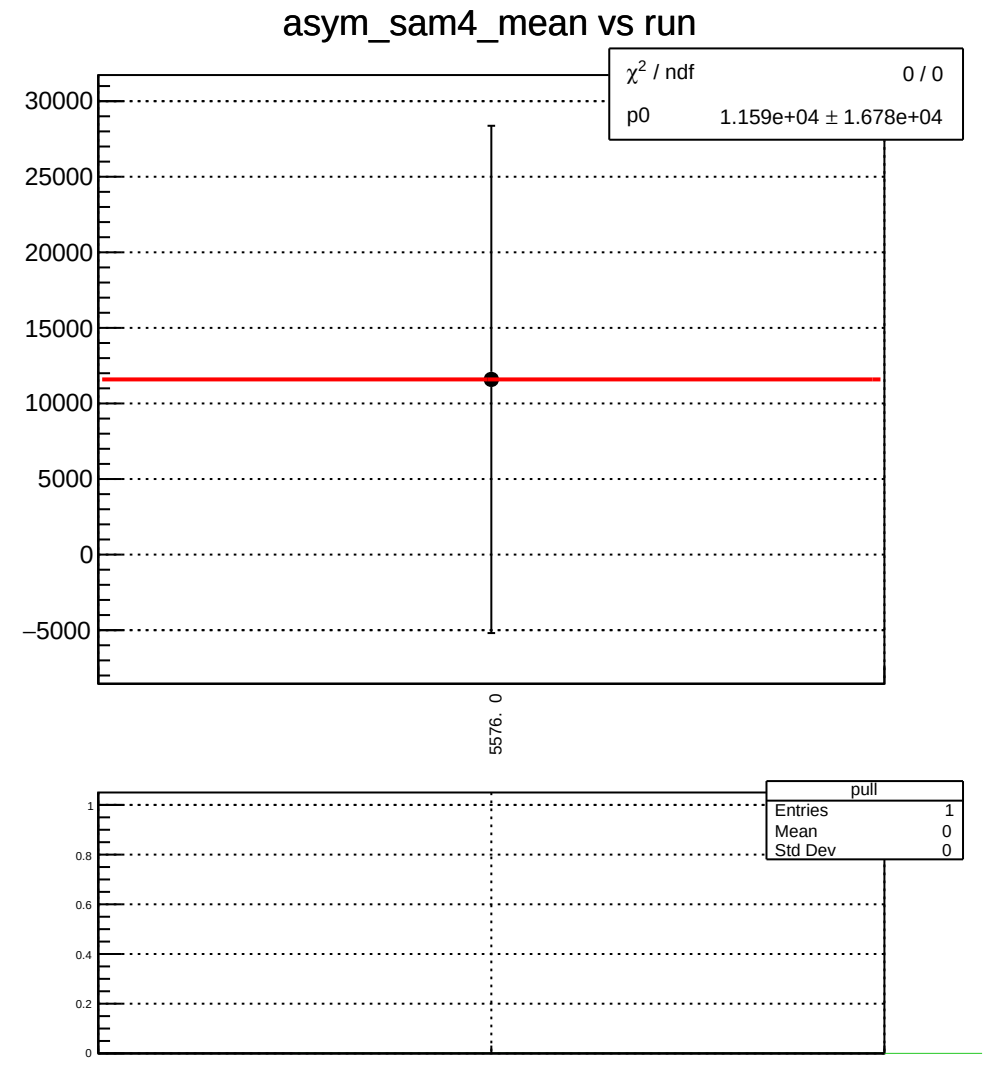

pull1D
Entries 1
Mean 1.893e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

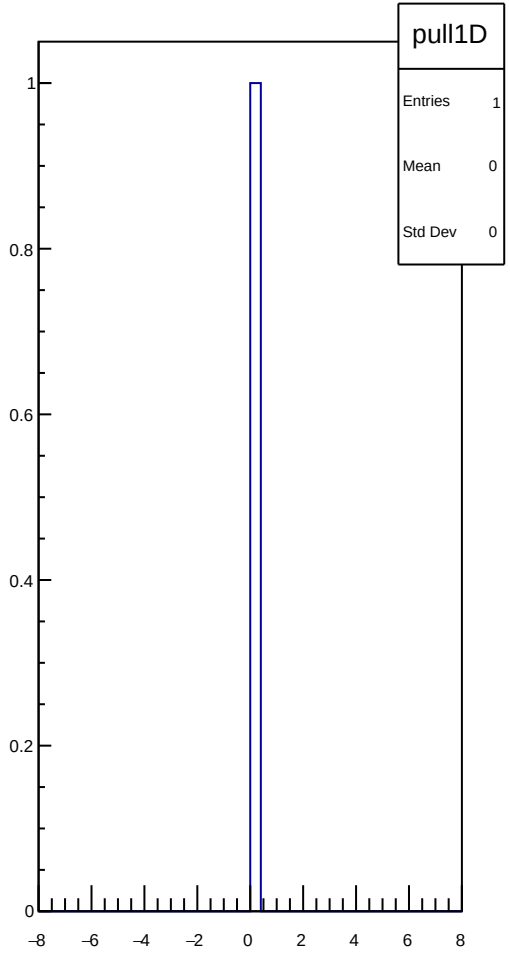

asym_sam2_rms vs run
χ² / ndf 0 / 0
p0 4690 ± 33.98
4730
4720
4710
4700
4690
4680
4670
4660
4650
5576. 0

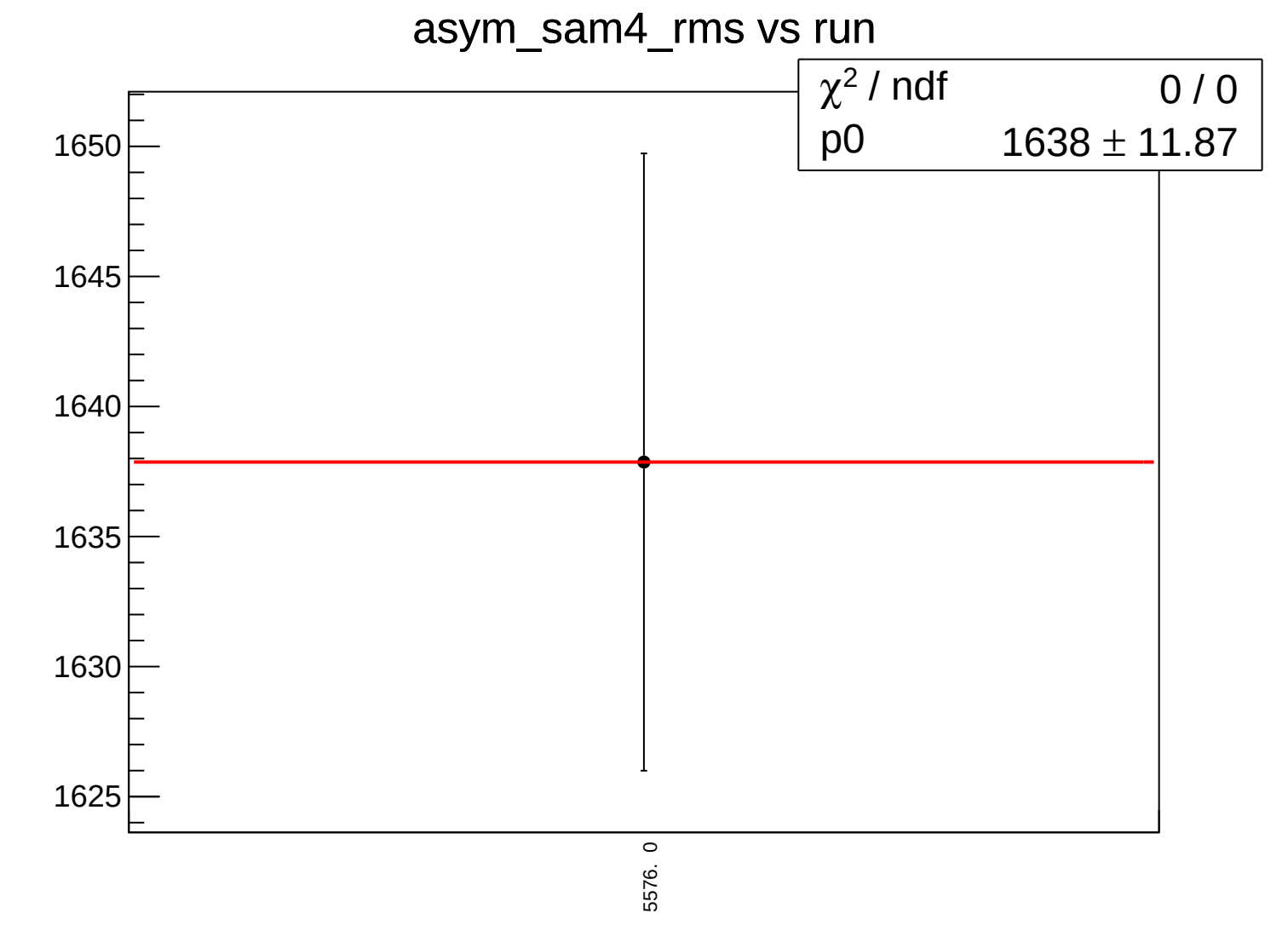

asym_sam3_mean vs run
χ² / ndf 0 / 0
p0 5425 ± 1.308e+04
20000
15000
10000
5000
0
−5000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

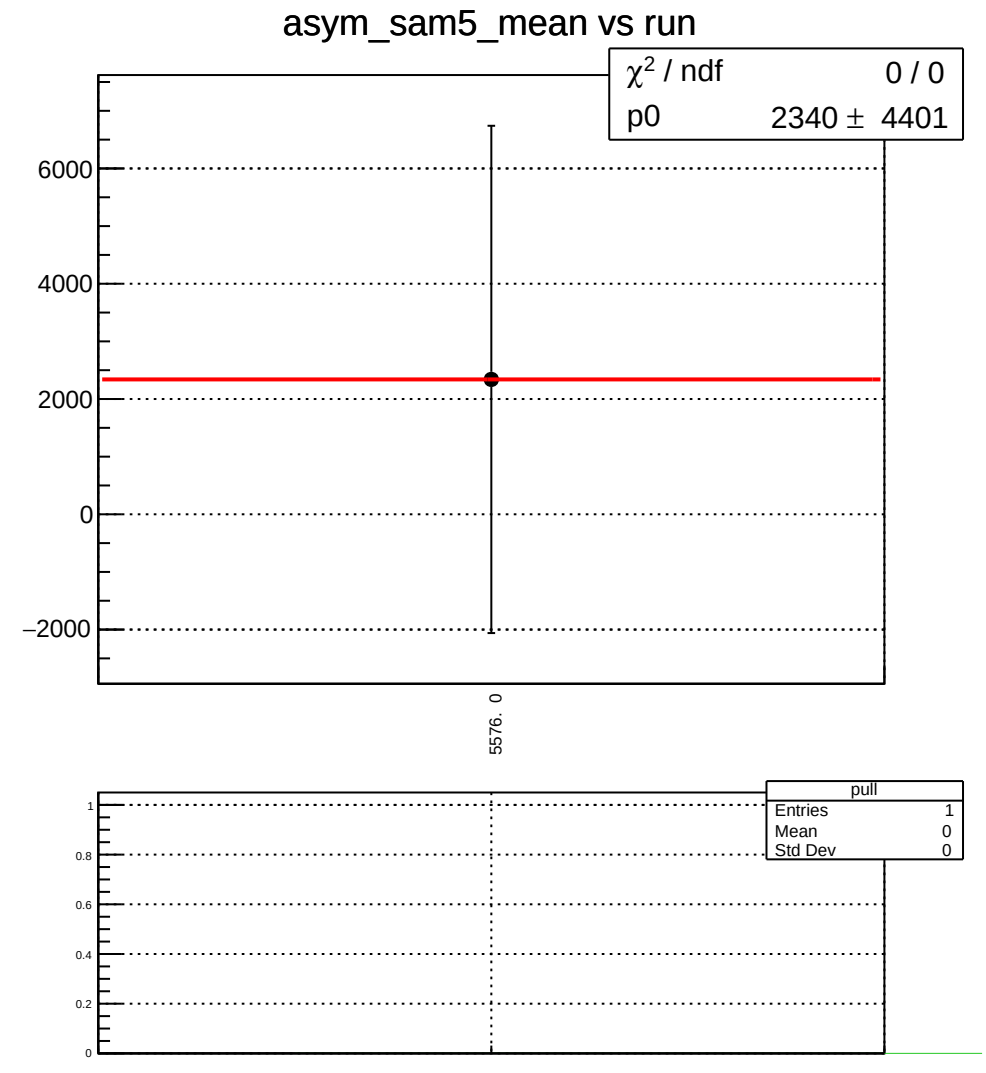

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

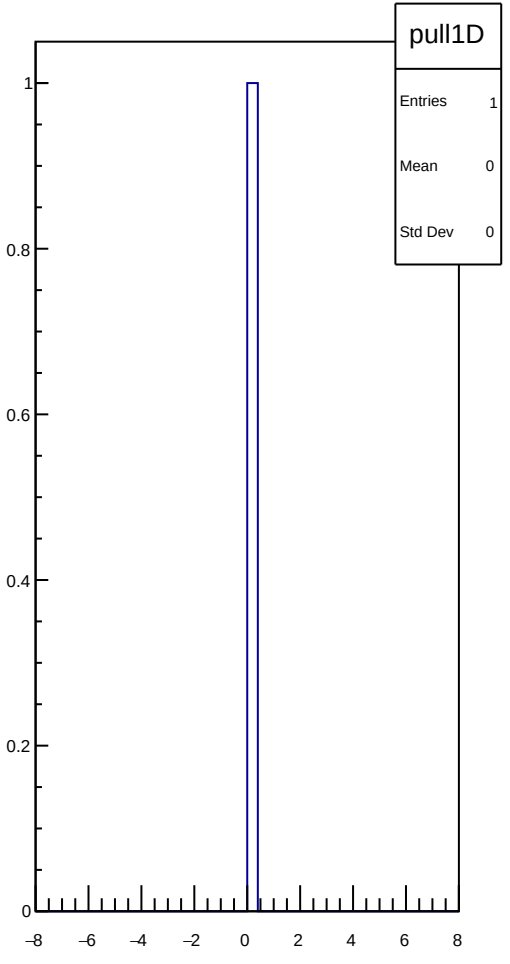

asym_sam3_rms vs run
χ² / ndf 0 / 0
p0 1276 ± 9.249
1286
1284
1282
1280
1278
1276
1274
1272
1270
1268
1266
5576. 0

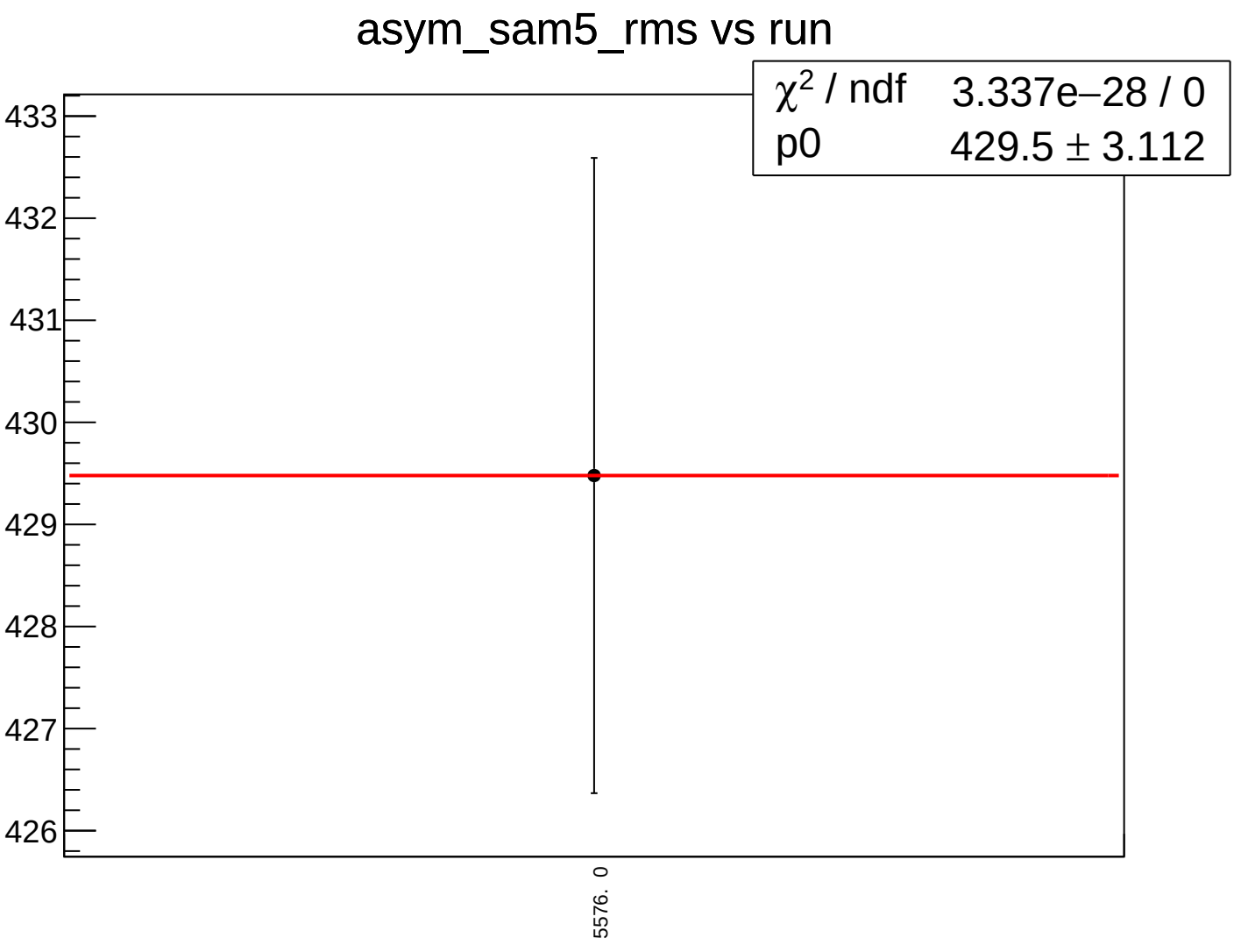

asym_sam4_mean vs run
χ² / ndf 0 / 0
p0 1.159e+04 ± 1.678e+04
30000
25000
20000
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

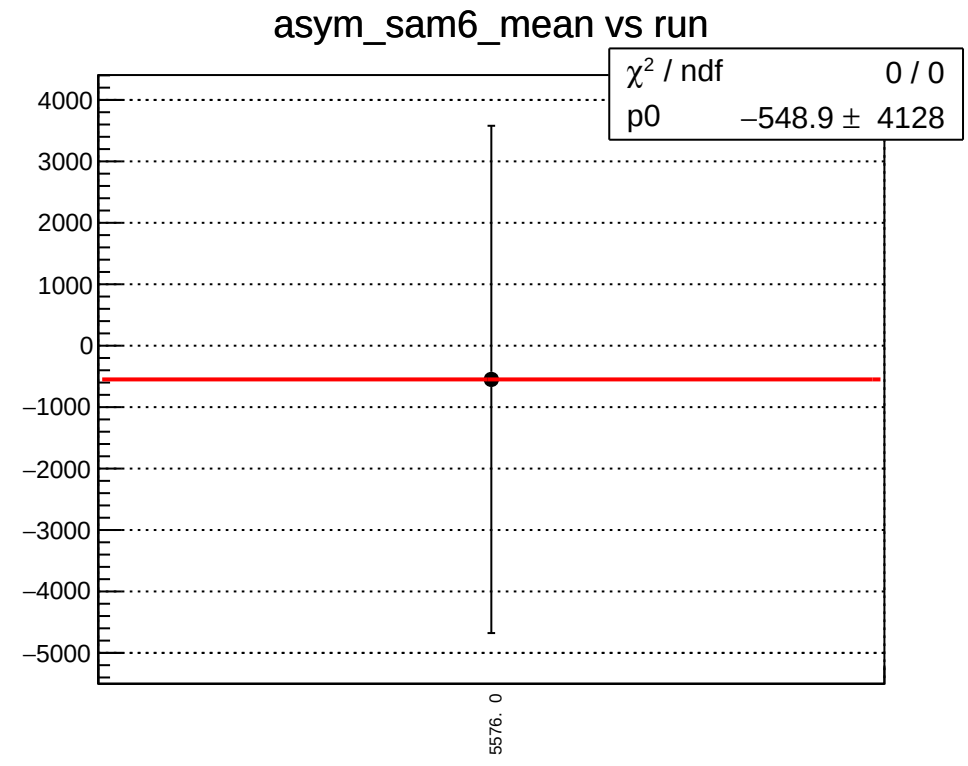

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

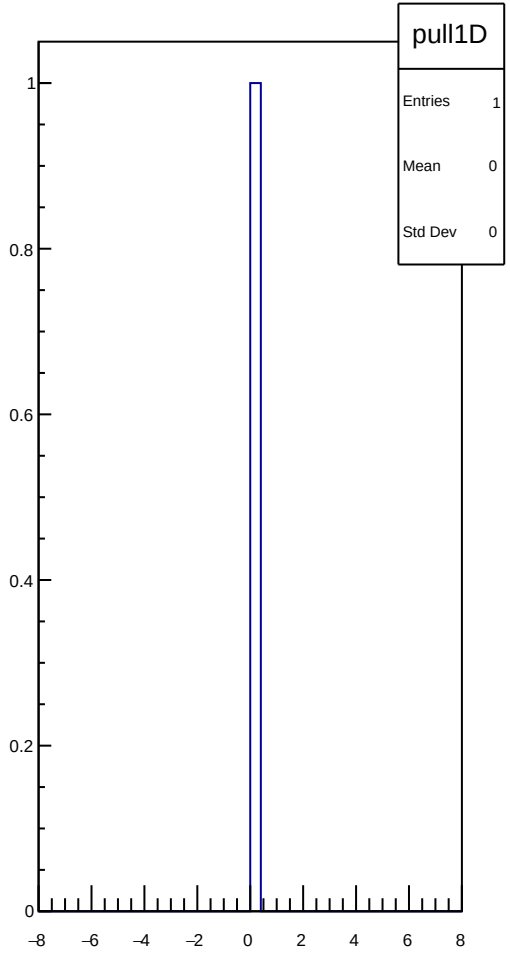

asym_sam4_rms vs run
χ² / ndf 0 / 0
p0 1638 ± 11.87
1650
1645
1640
1635
1630
1625
5576. 0

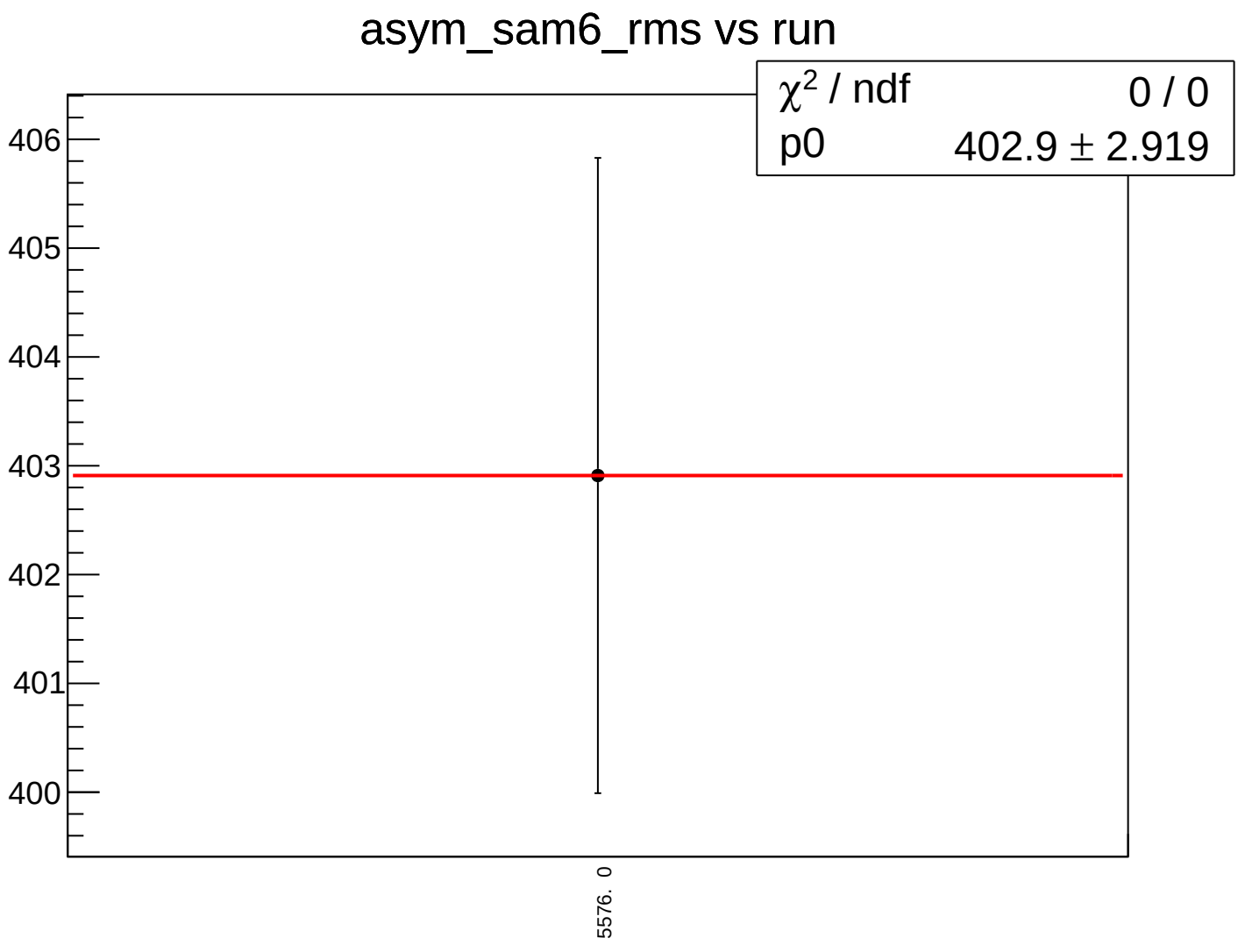

asym_sam5_mean vs run
χ² / ndf 0 / 0
p0 2340 ± 4401
6000
4000
2000
0
−2000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

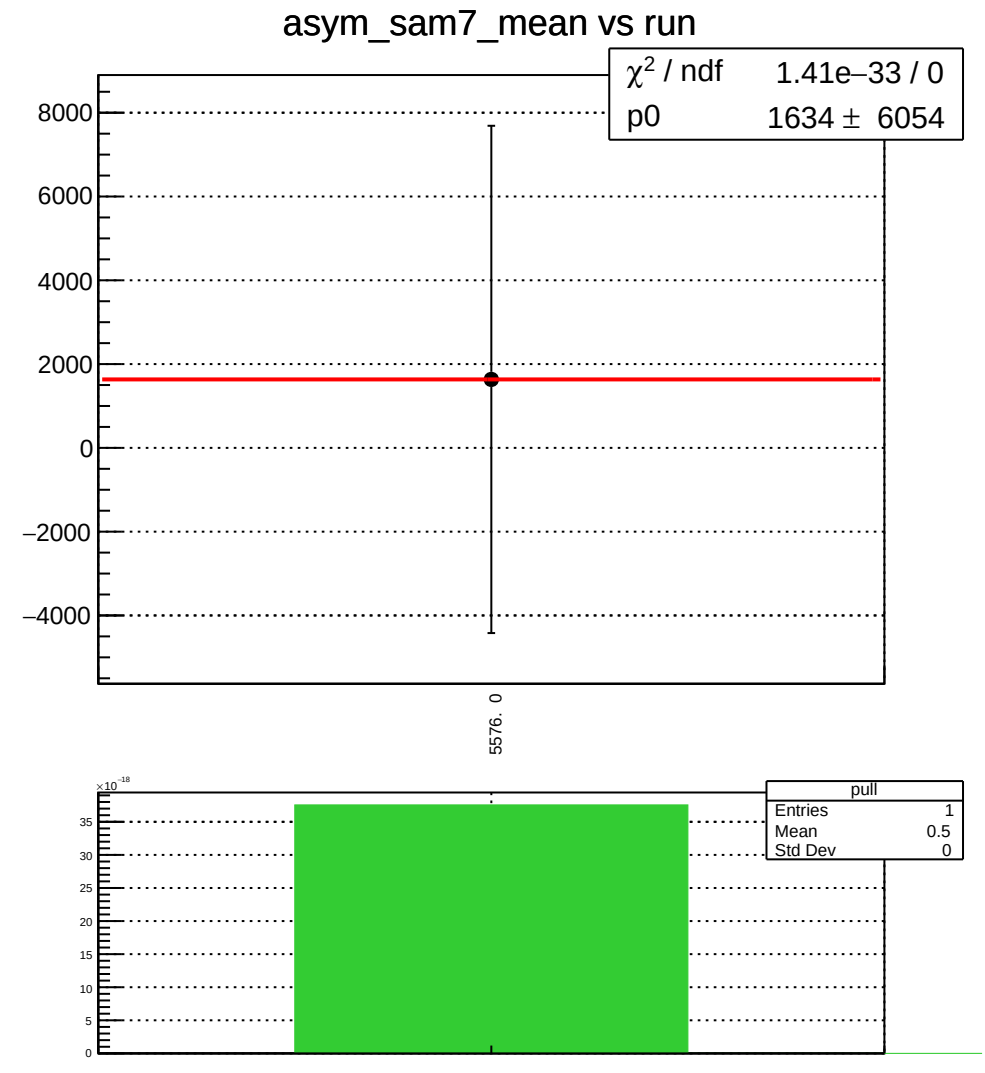

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

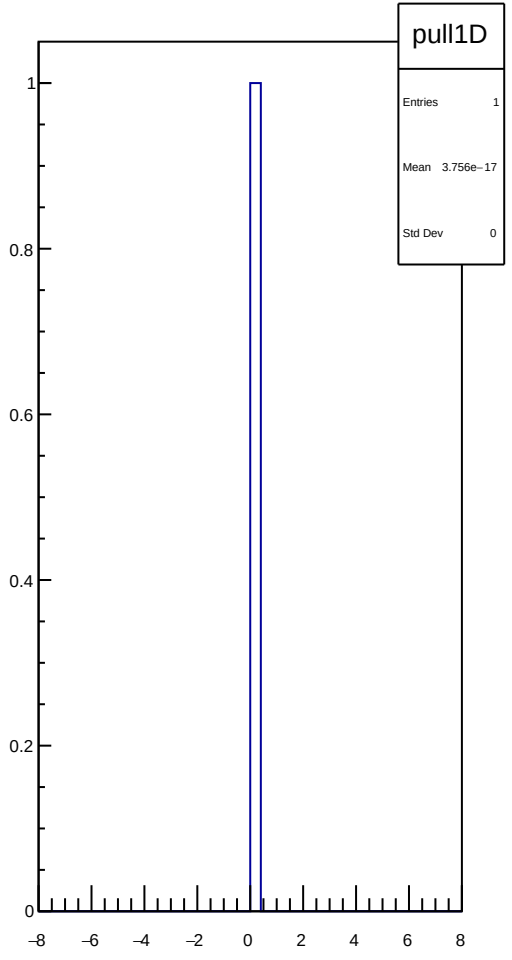

asym_sam5_rms vs run
χ² / ndf 3.337e−28 / 0
p0 429.5 ± 3.112
433
432
431
430
429
428
427
426
5576. 0

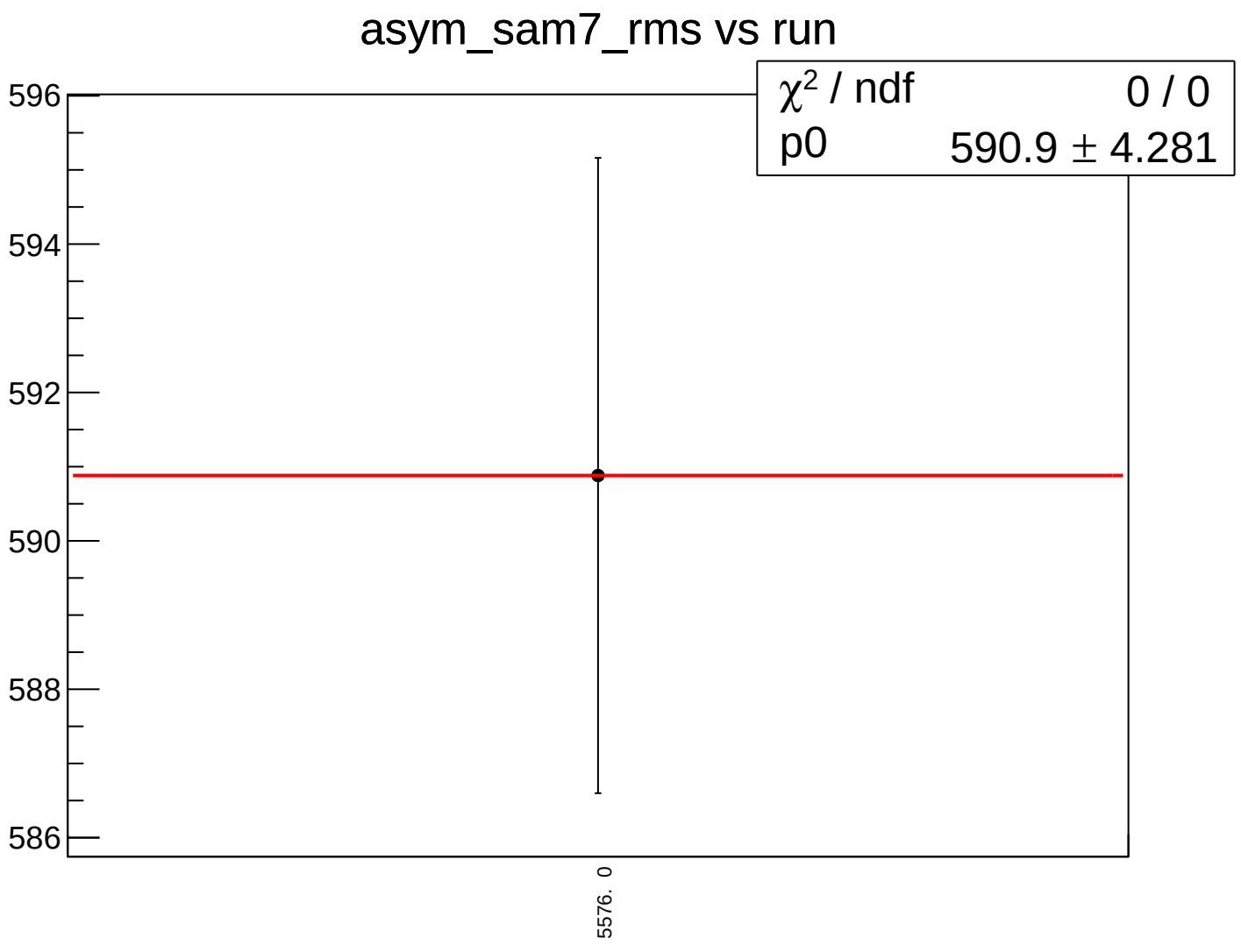

asym_sam6_mean vs run
χ² / ndf 0 / 0
p0 −548.9 ± 4128
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

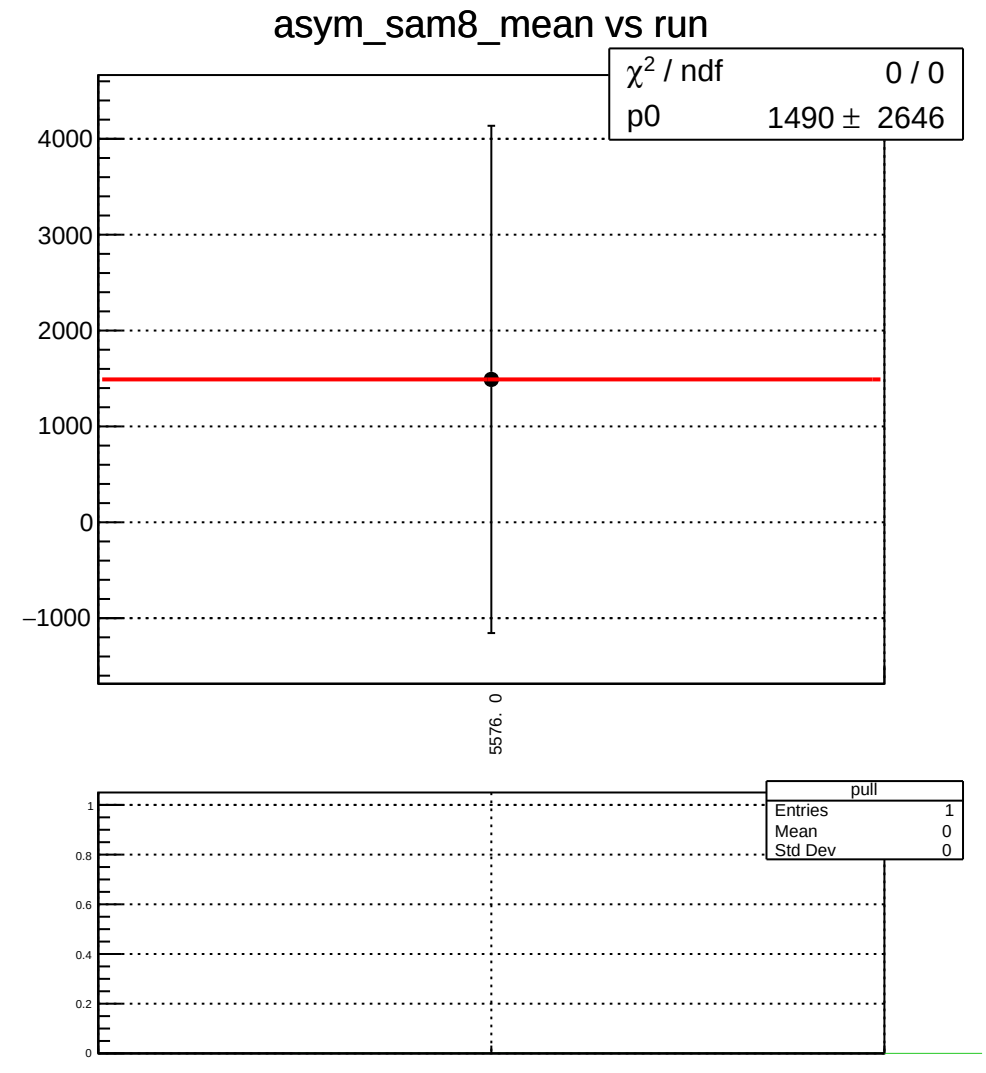

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

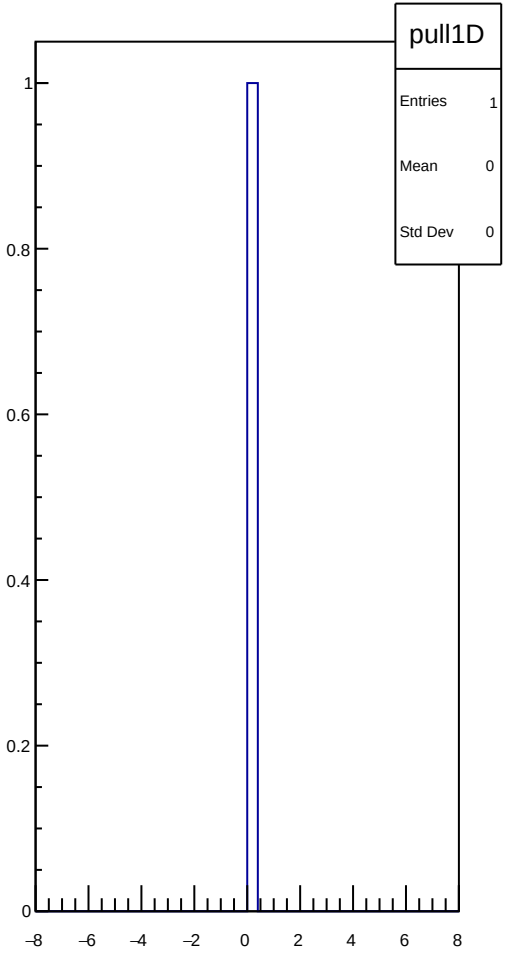

asym_sam6_rms vs run
χ² / ndf 0 / 0
p0 402.9 ± 2.919
406
405
404
403
402
401
400
5576. 0

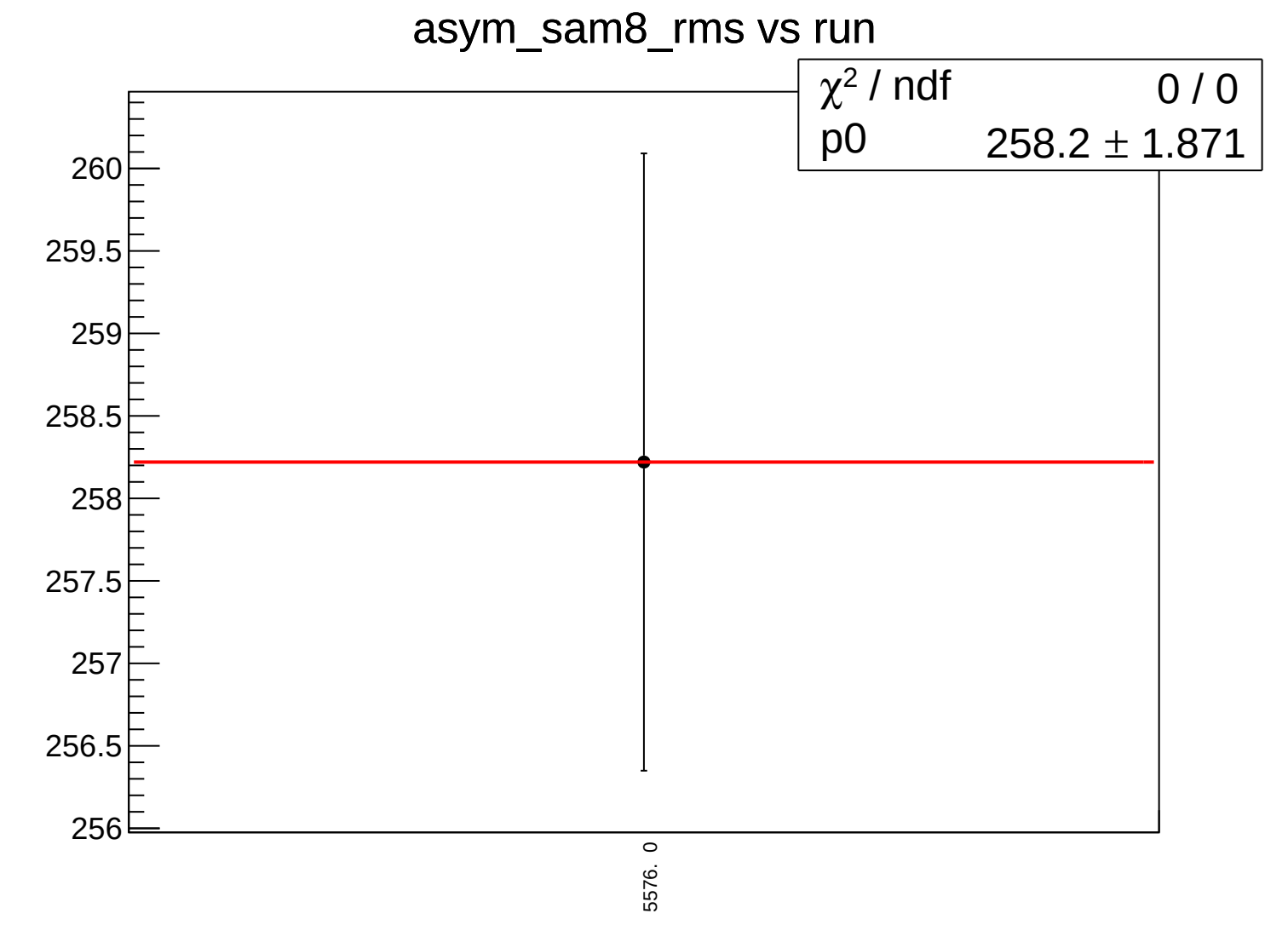

asym_sam7_mean vs run
χ² / ndf 1.41e−33 / 0
p0 1634 ± 6054
8000
6000
4000
2000
0
−2000
−4000
5576. 0
×10⁻¹⁸
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

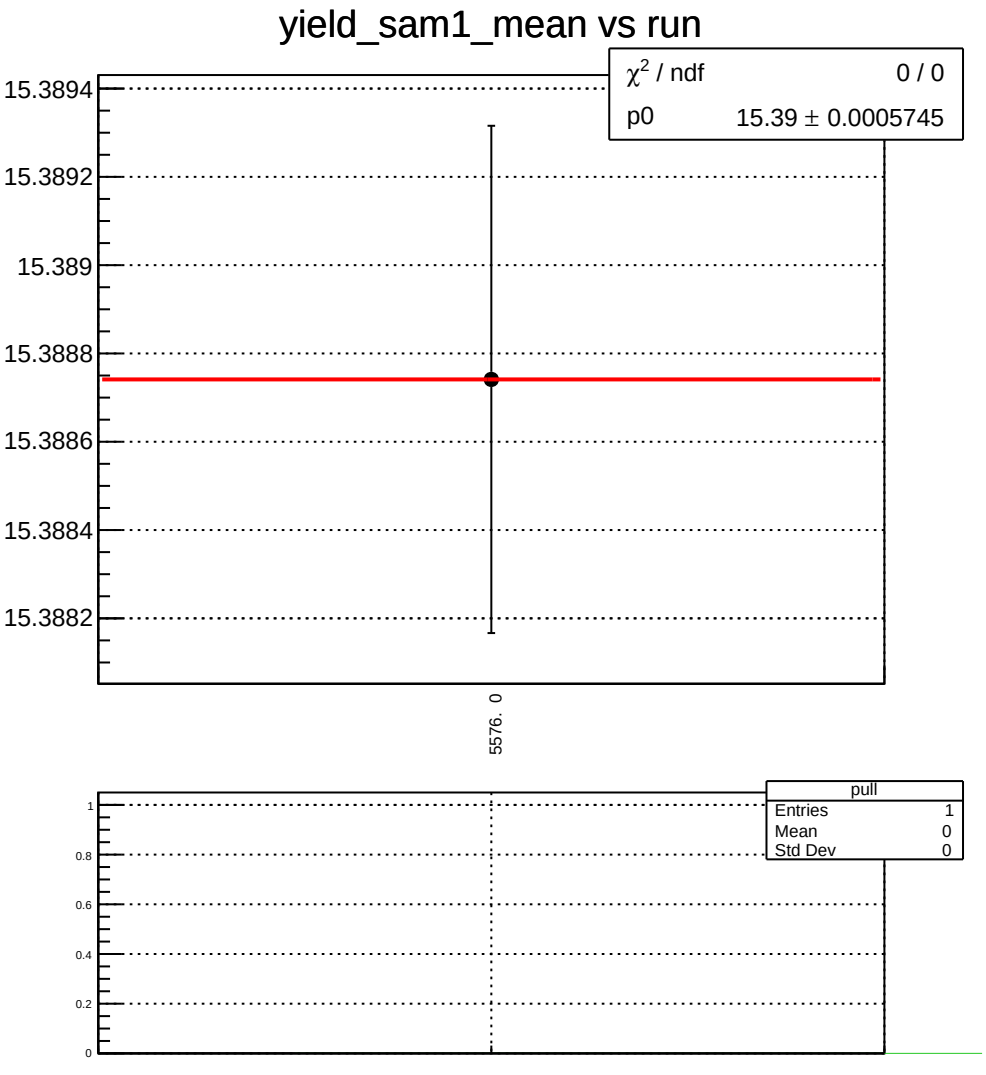

pull1D
Entries 1
Mean 3.756e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

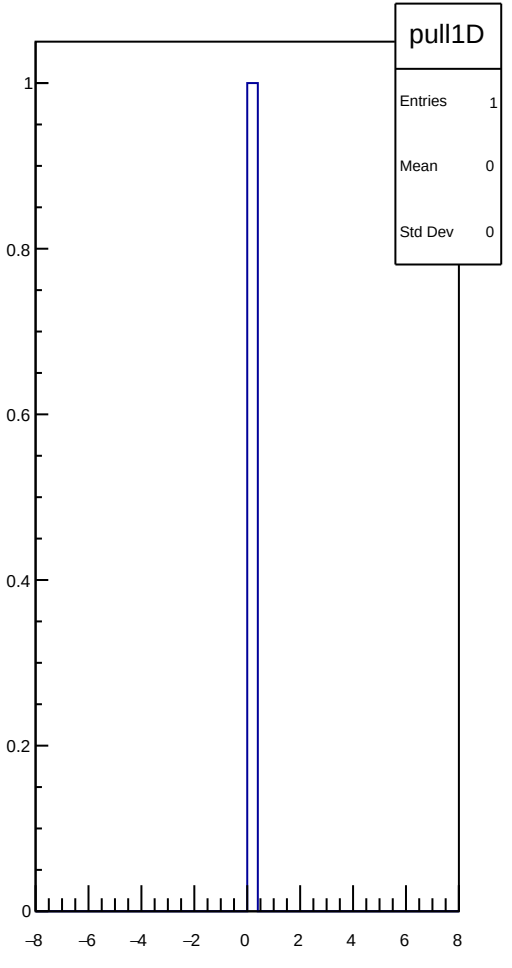

asym_sam7_rms vs run
χ² / ndf 0 / 0
p0 590.9 ± 4.281
596
594
592
590
588
586
5576. 0

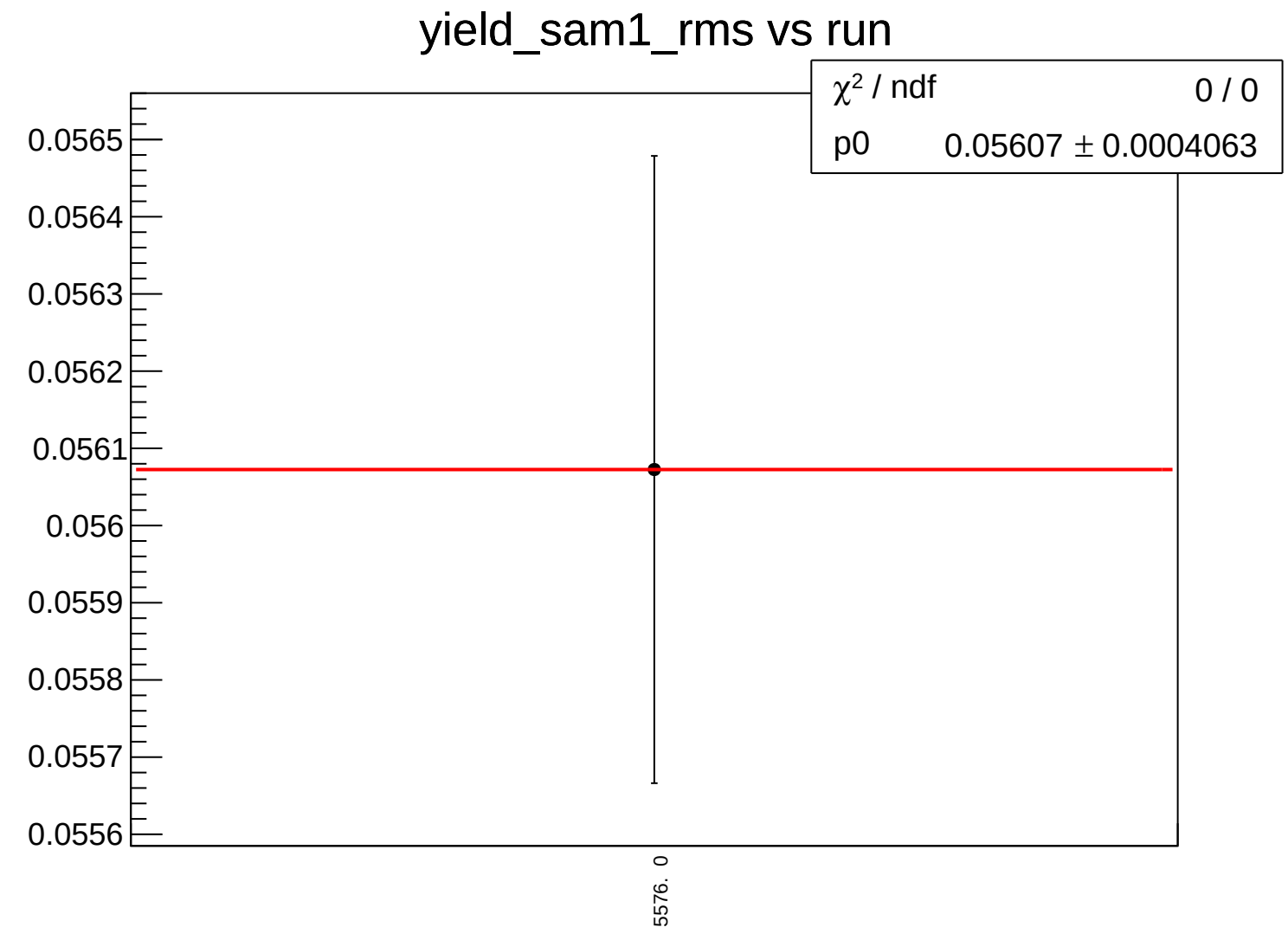

asym_sam8_mean vs run
χ² / ndf 0 / 0
p0 1490 ± 2646
4000
3000
2000
1000
0
−1000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

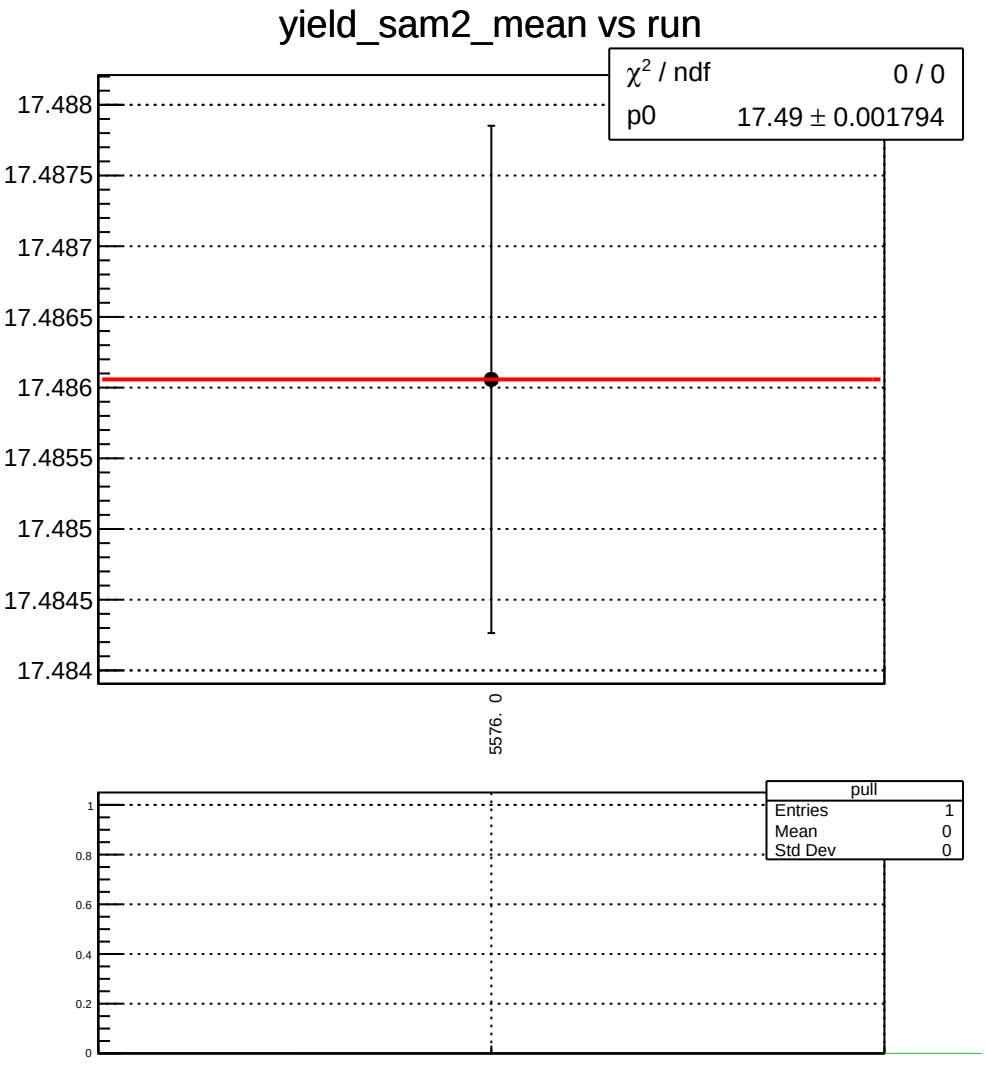

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

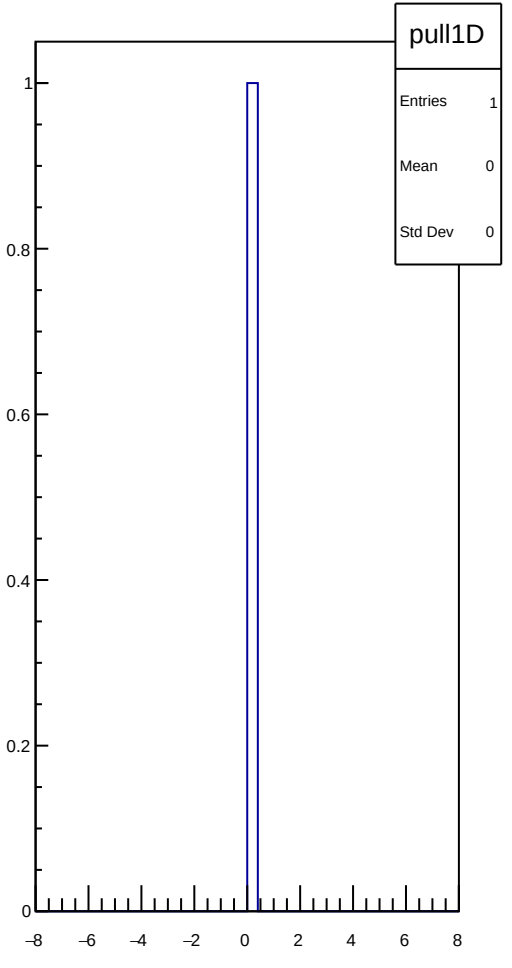

asym_sam8_rms vs run
χ² / ndf 0 / 0
p0 258.2 ± 1.871
260
259.5
259
258.5
258
257.5
257
256.5
256
5576. 0

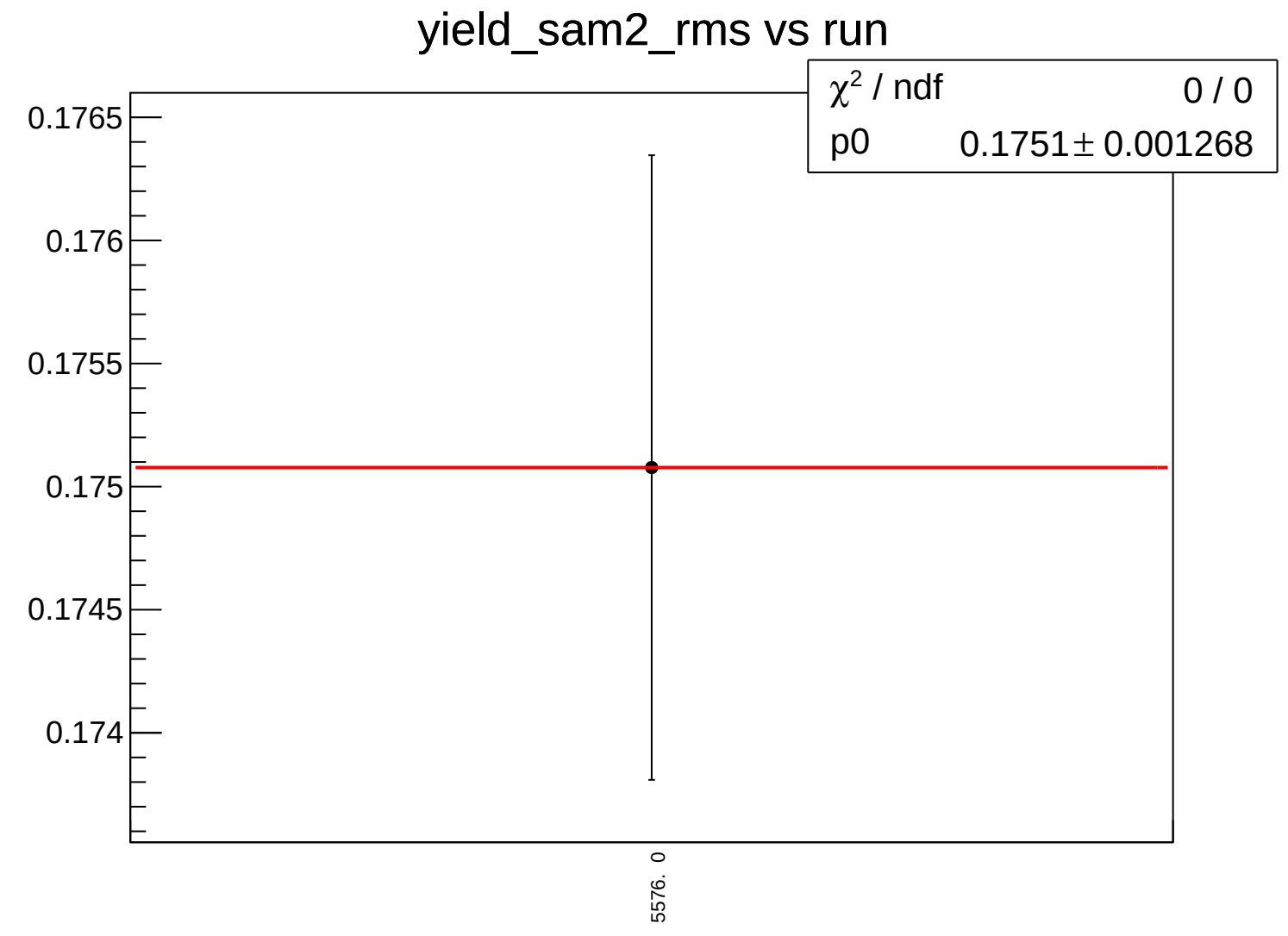

yield_sam1_mean vs run
χ² / ndf 0 / 0
p0 15.39 ± 0.0005745
15.3894
15.3892
15.389
15.3888
15.3886
15.3884
15.3882
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

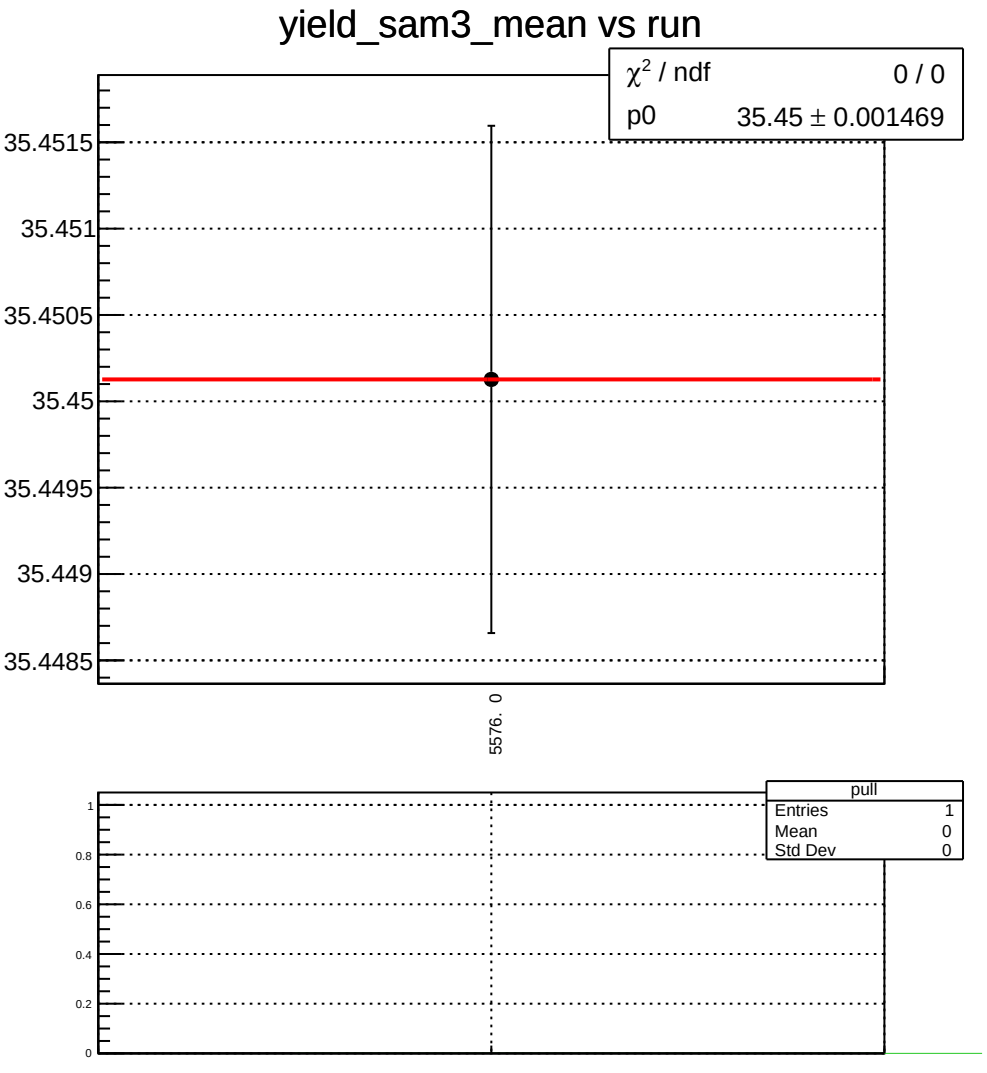

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

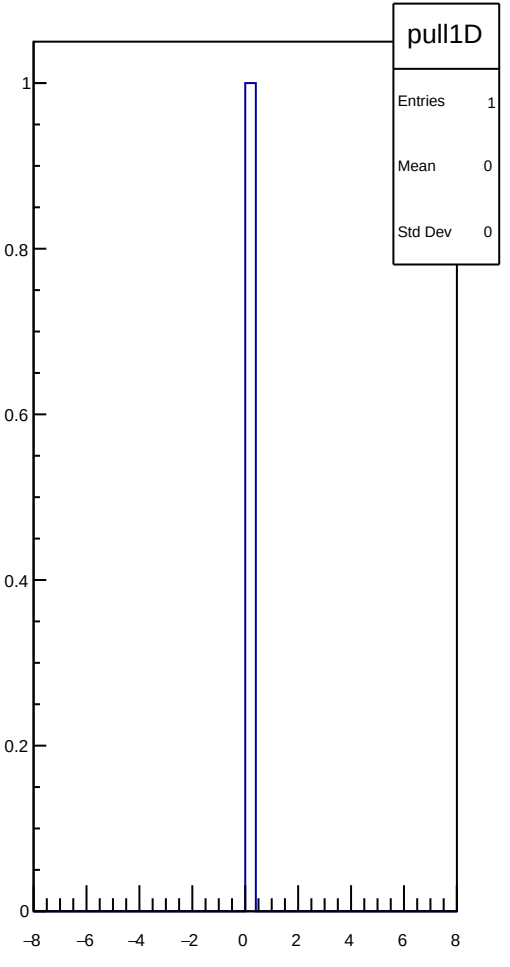

yield_sam1_rms vs run
χ² / ndf 0 / 0
p0 0.05607 ± 0.0004063
0.0565
0.0564
0.0563
0.0562
0.0561
0.056
0.0559
0.0558
0.0557
0.0556
5576. 0

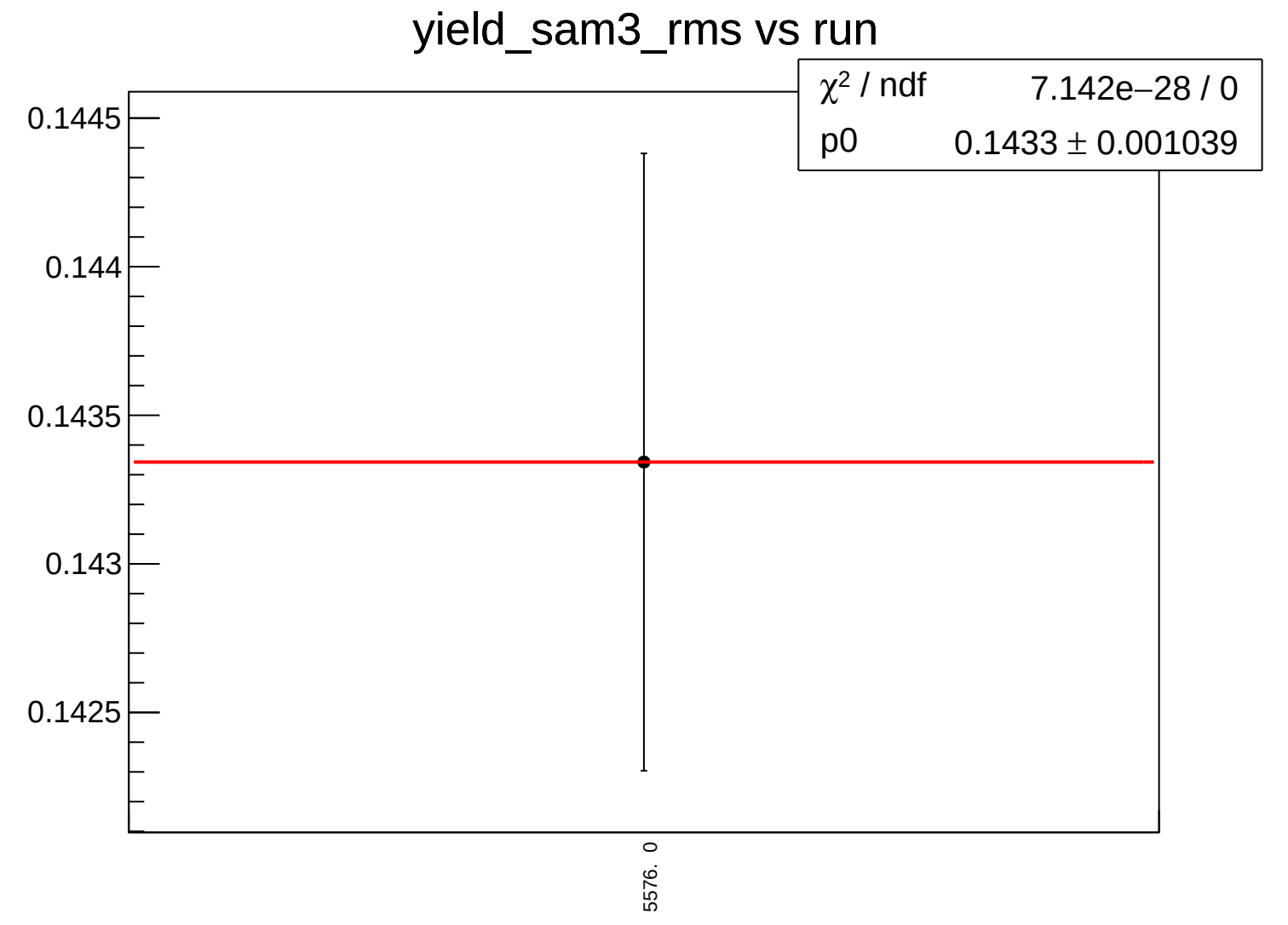

yield_sam2_mean vs run
χ² / ndf 0 / 0
p0 17.49 ± 0.001794
17.488
17.4875
17.487
17.4865
17.486
17.4855
17.485
17.4845
17.484
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

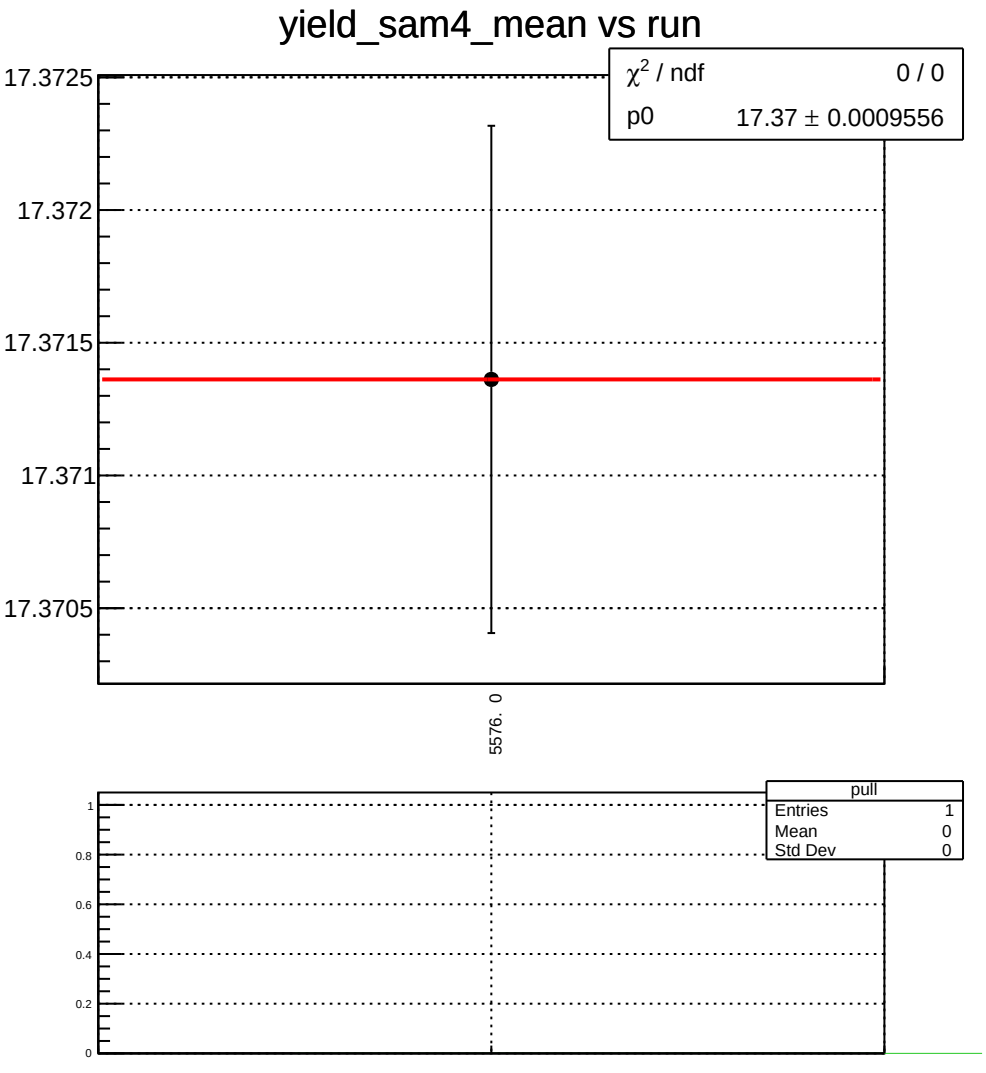

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

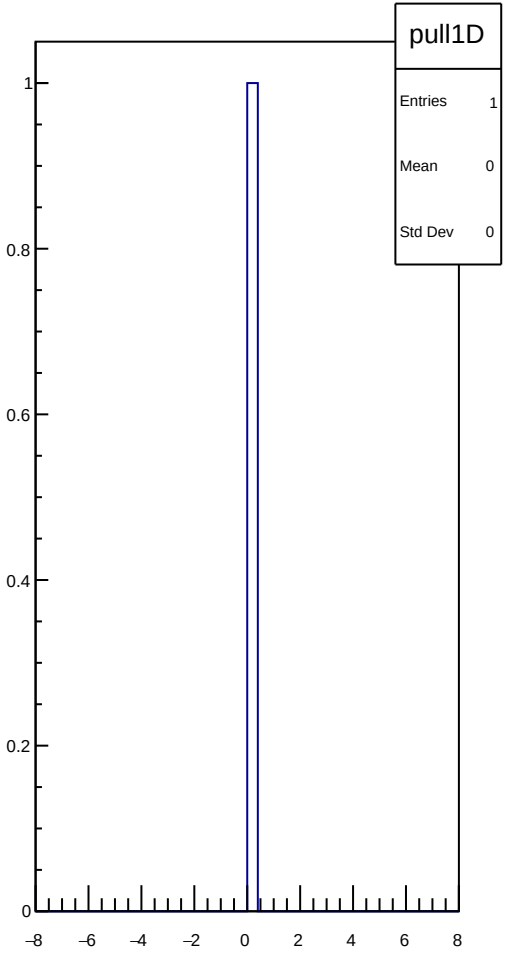

yield_sam2_rms vs run
χ² / ndf 0 / 0
p0 0.1751 ± 0.001268
0.1765
0.176
0.1755
0.175
0.1745
0.174
5576. 0

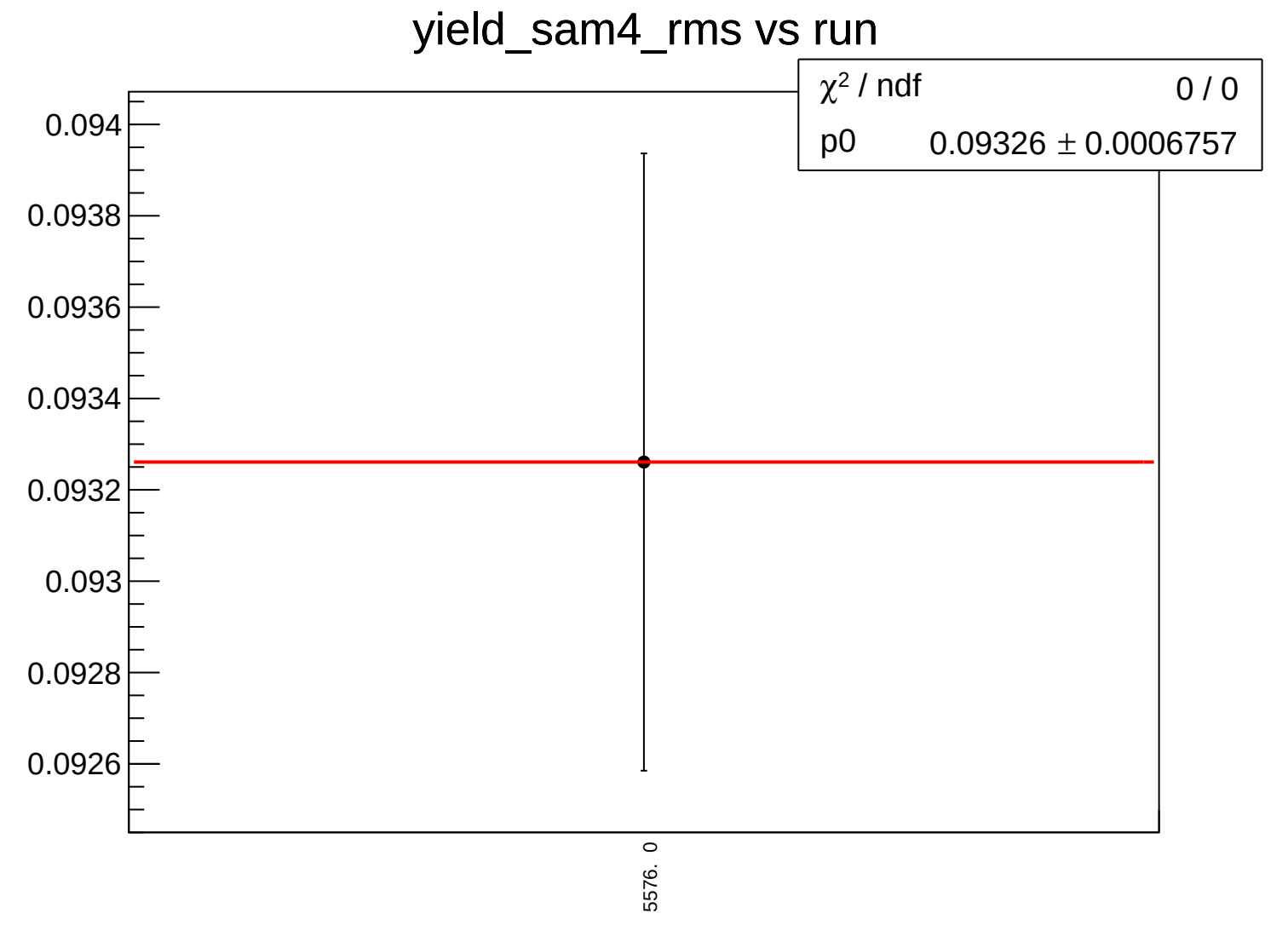

yield_sam3_mean vs run
χ² / ndf 0 / 0
p0 35.45 ± 0.001469
35.4515
35.451
35.4505
35.45
35.4495
35.449
35.4485
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

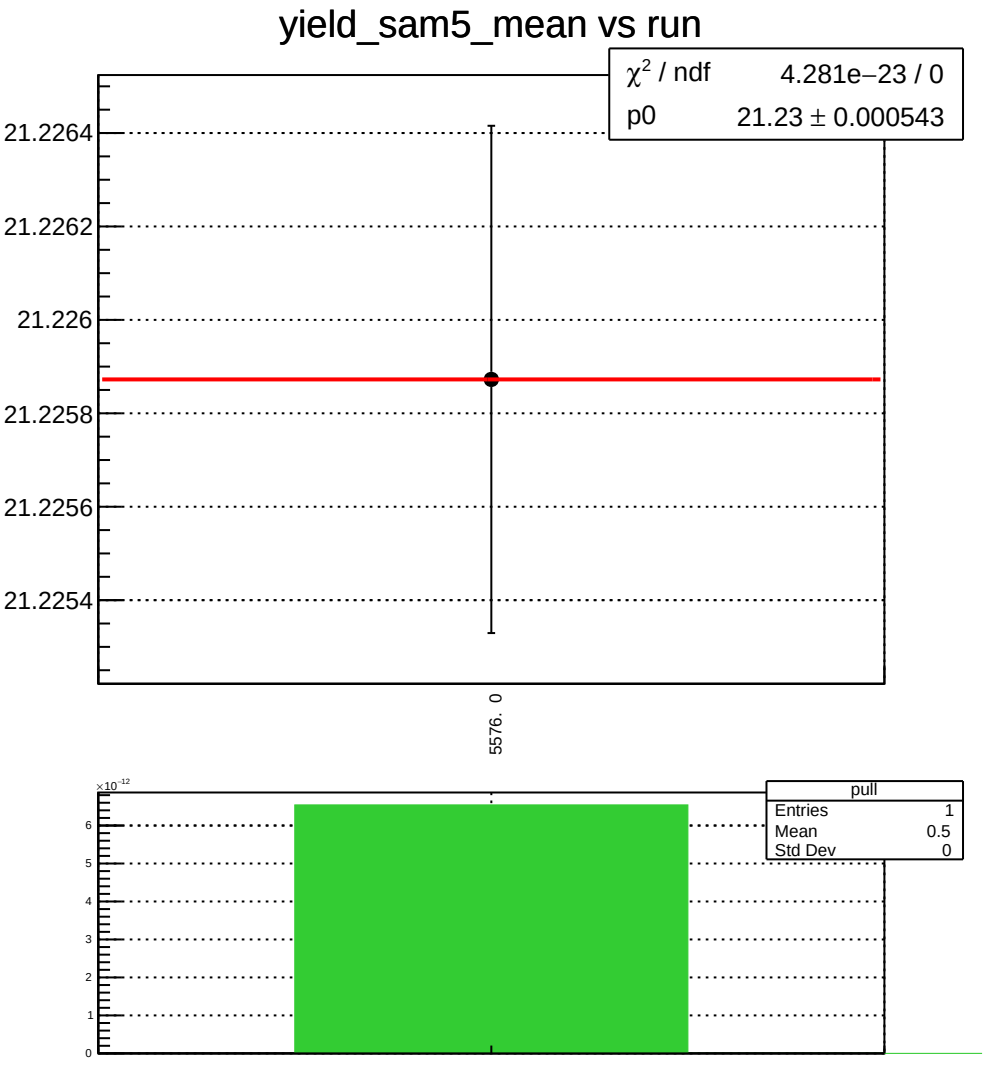

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

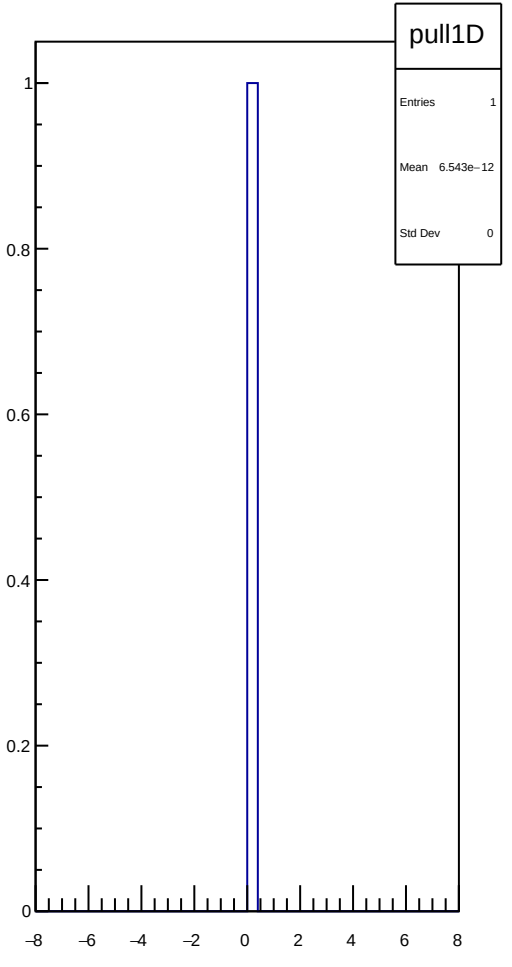

yield_sam3_rms vs run
χ² / ndf 7.142e−28 / 0
p0 0.1433 ± 0.001039
0.1445
0.144
0.1435
0.143
0.1425
5576. 0


yield_sam4_mean vs run
χ² / ndf 0 / 0
p0 17.37 ± 0.0009556
17.3725
17.372
17.3715
17.371
17.3705
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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_sam4_rms vs run
χ² / ndf 0 / 0
p0 0.09326 ± 0.0006757
0.094
0.0938
0.0936
0.0934
0.0932
0.093
0.0928
0.0926
5576. 0


yield_sam5_mean vs run
χ² / ndf 4.281e−23 / 0
p0 21.23 ± 0.000543
21.2264
21.2262
21.226
21.2258
21.2256
21.2254
5576. 0
×10⁻¹²
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 6.543e−12
Std Dev 0
1
0.8
0.6
0.4
0.2
0
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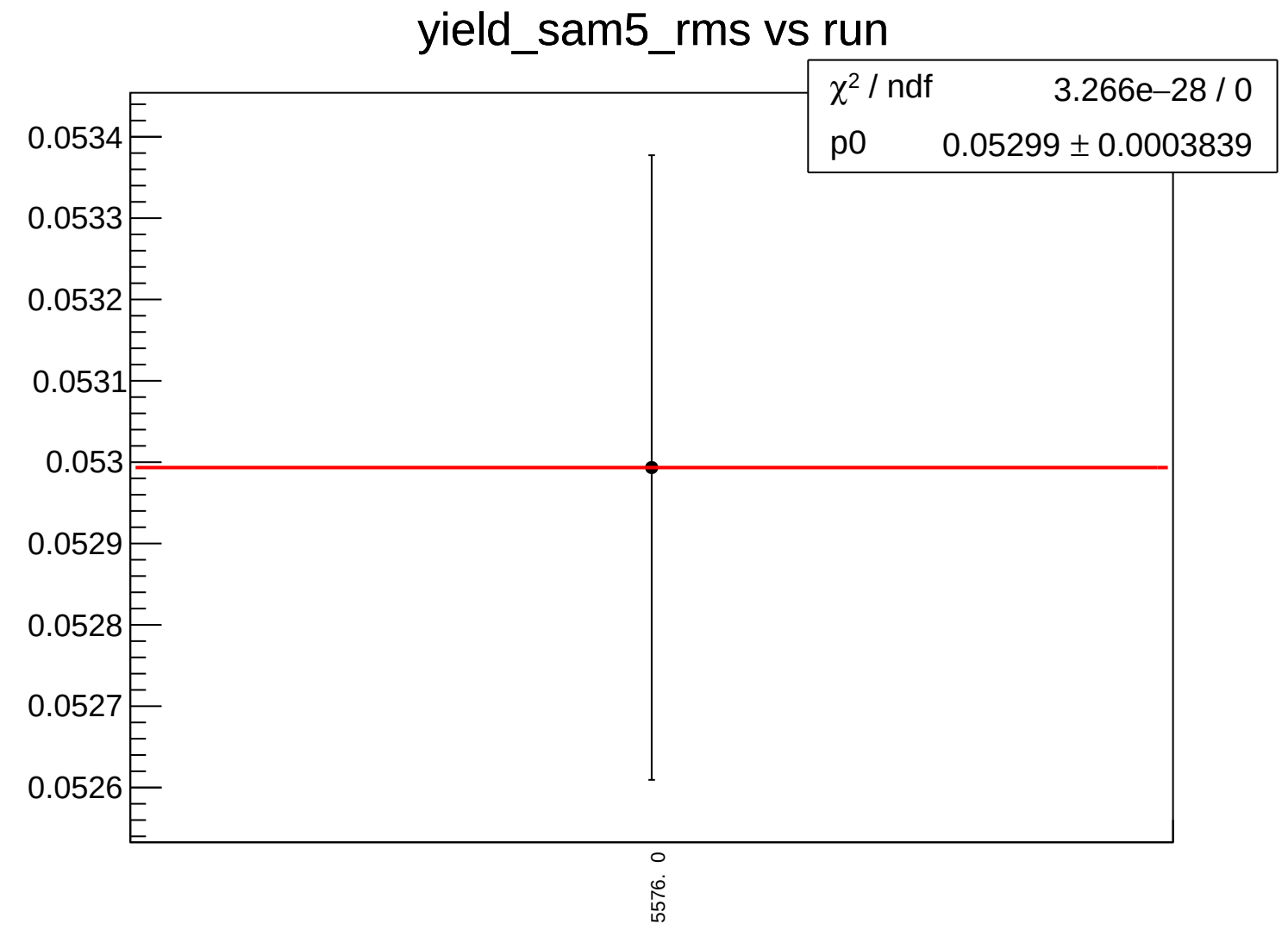
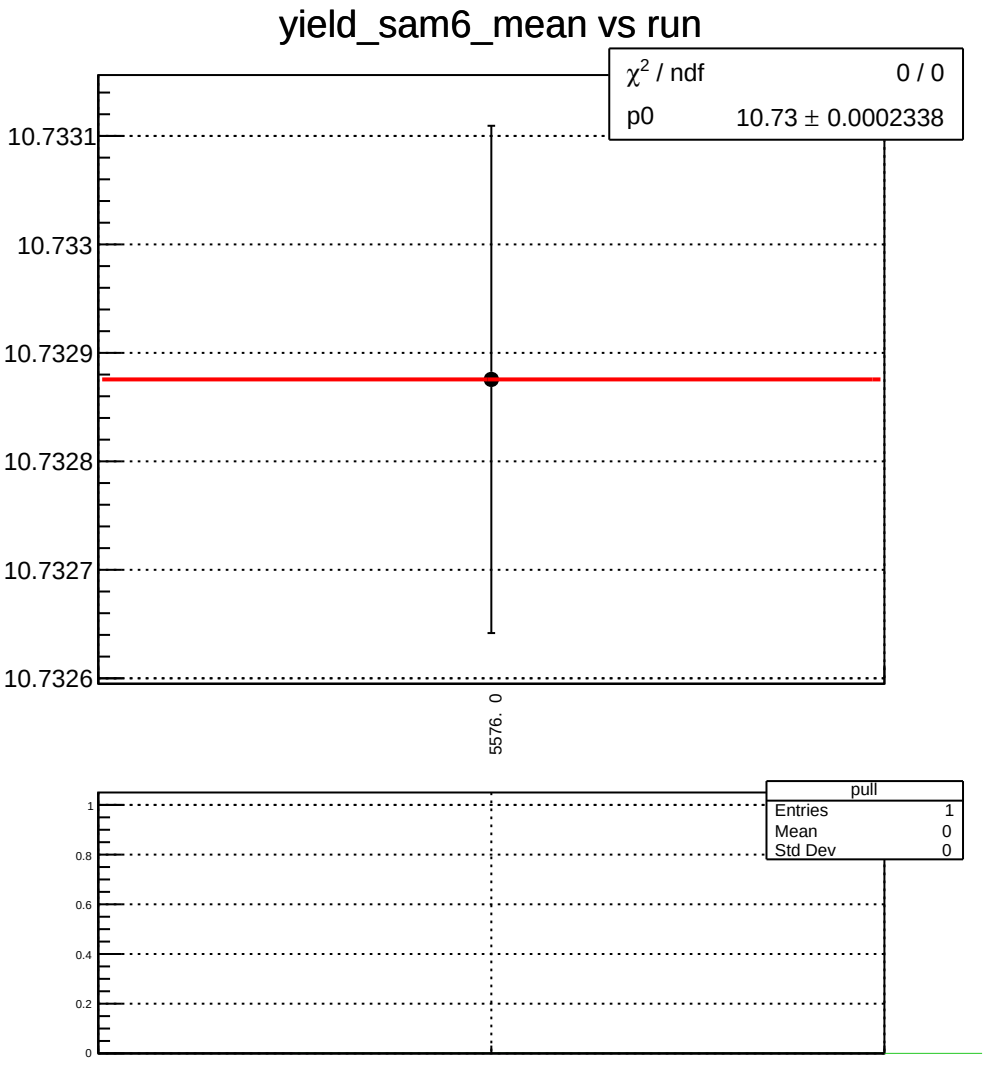
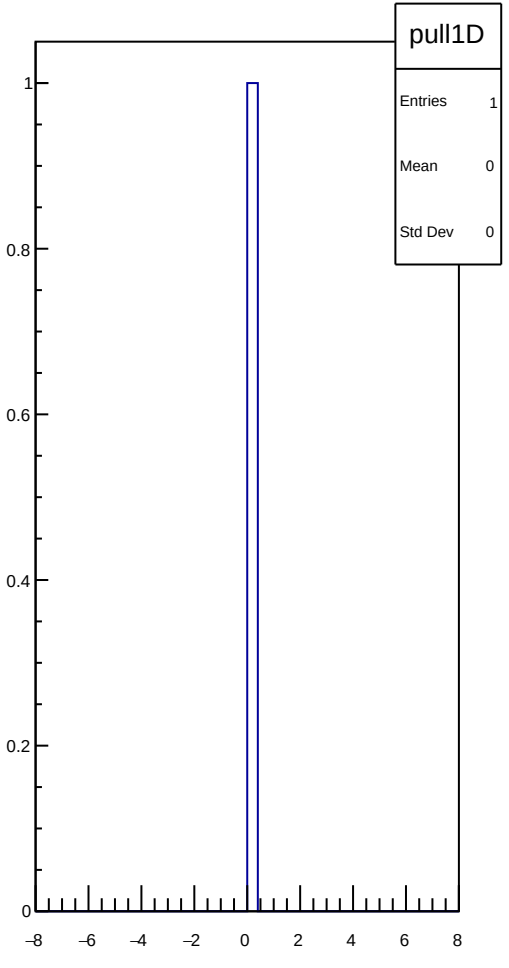
2
4
6
8


yield_sam5_rms vs run
χ² / ndf 3.266e–28 / 0
p0 0.05299 ± 0.0003839
0.0534
0.0533
0.0532
0.0531
0.053
0.0529
0.0528
0.0527
0.0526
5576. 0


yield_sam6_mean vs run
χ² / ndf 0 / 0
p0 10.73 ± 0.0002338
10.7331
10.733
10.7329
10.7328
10.7327
10.7326
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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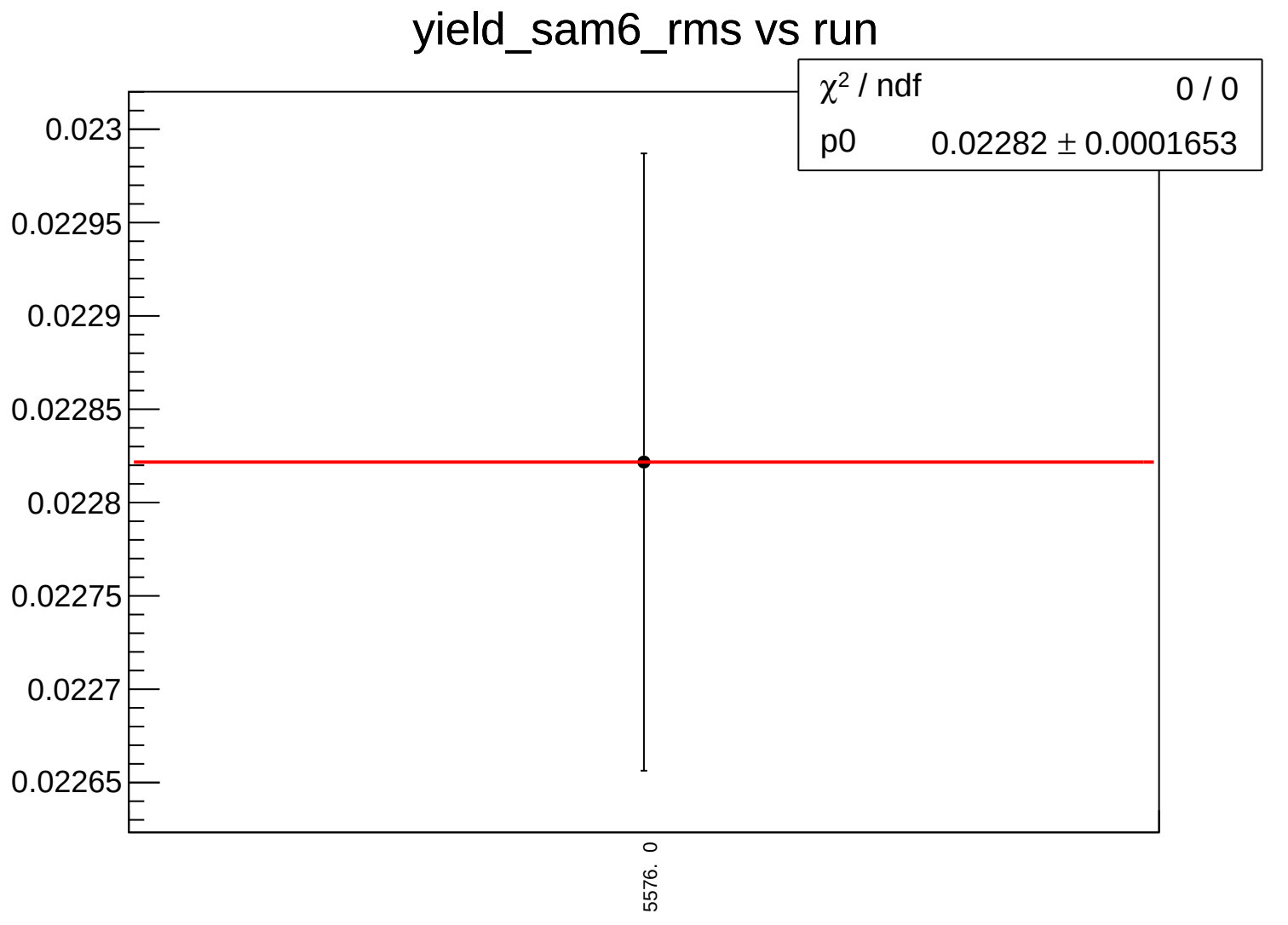
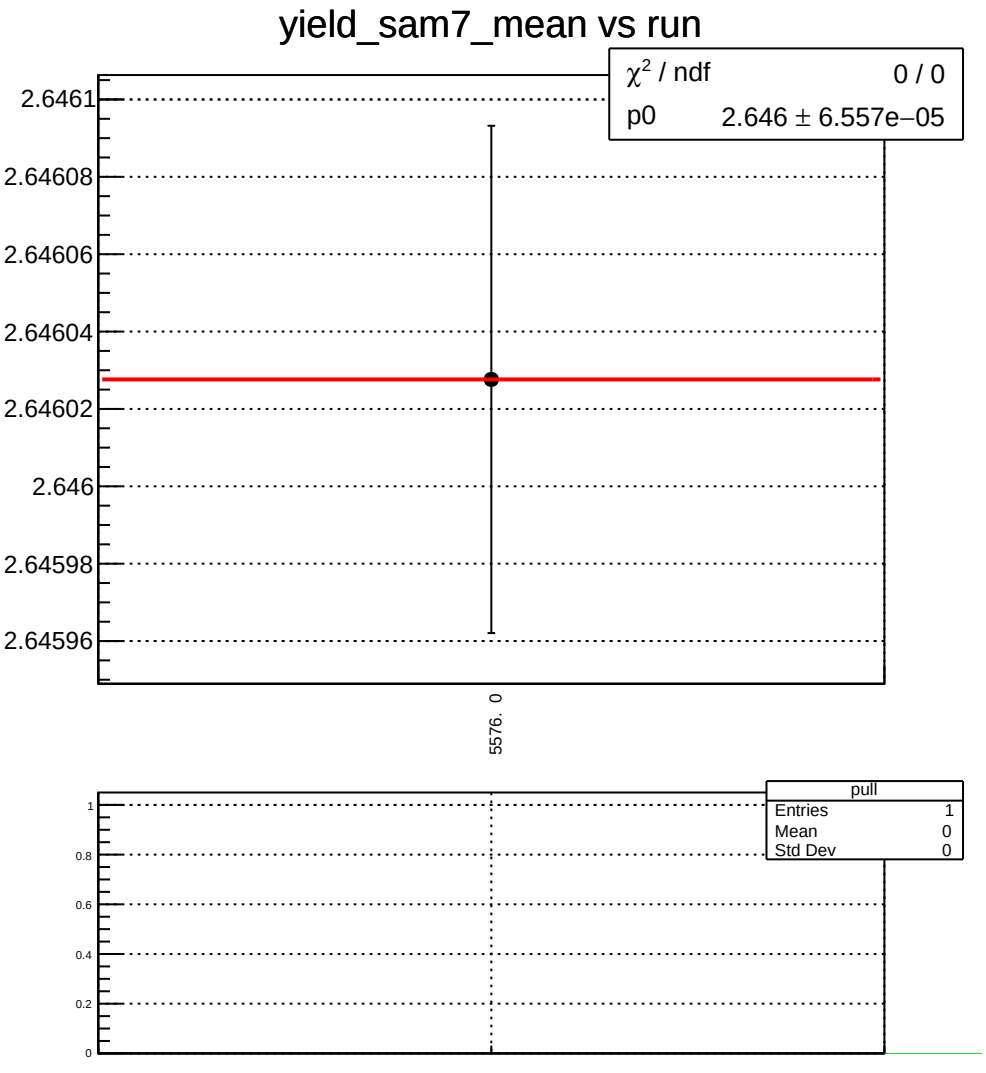
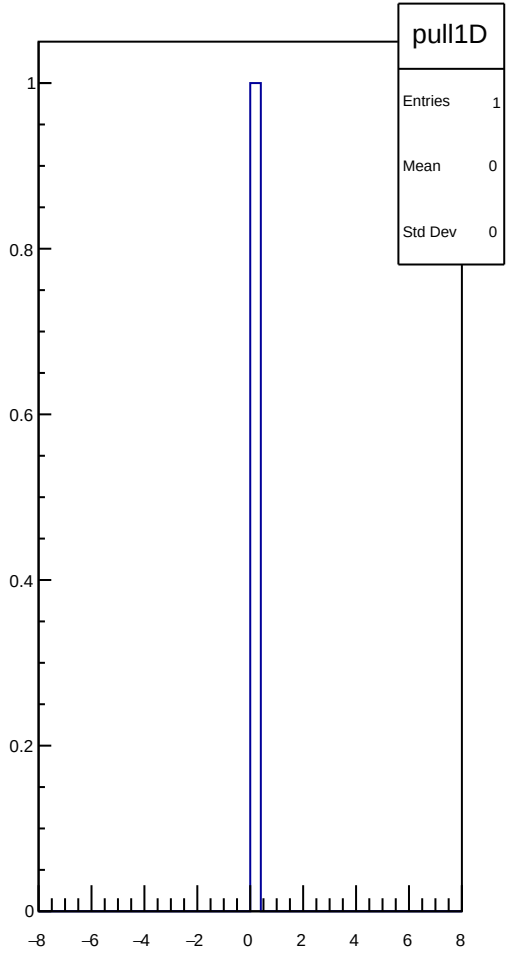
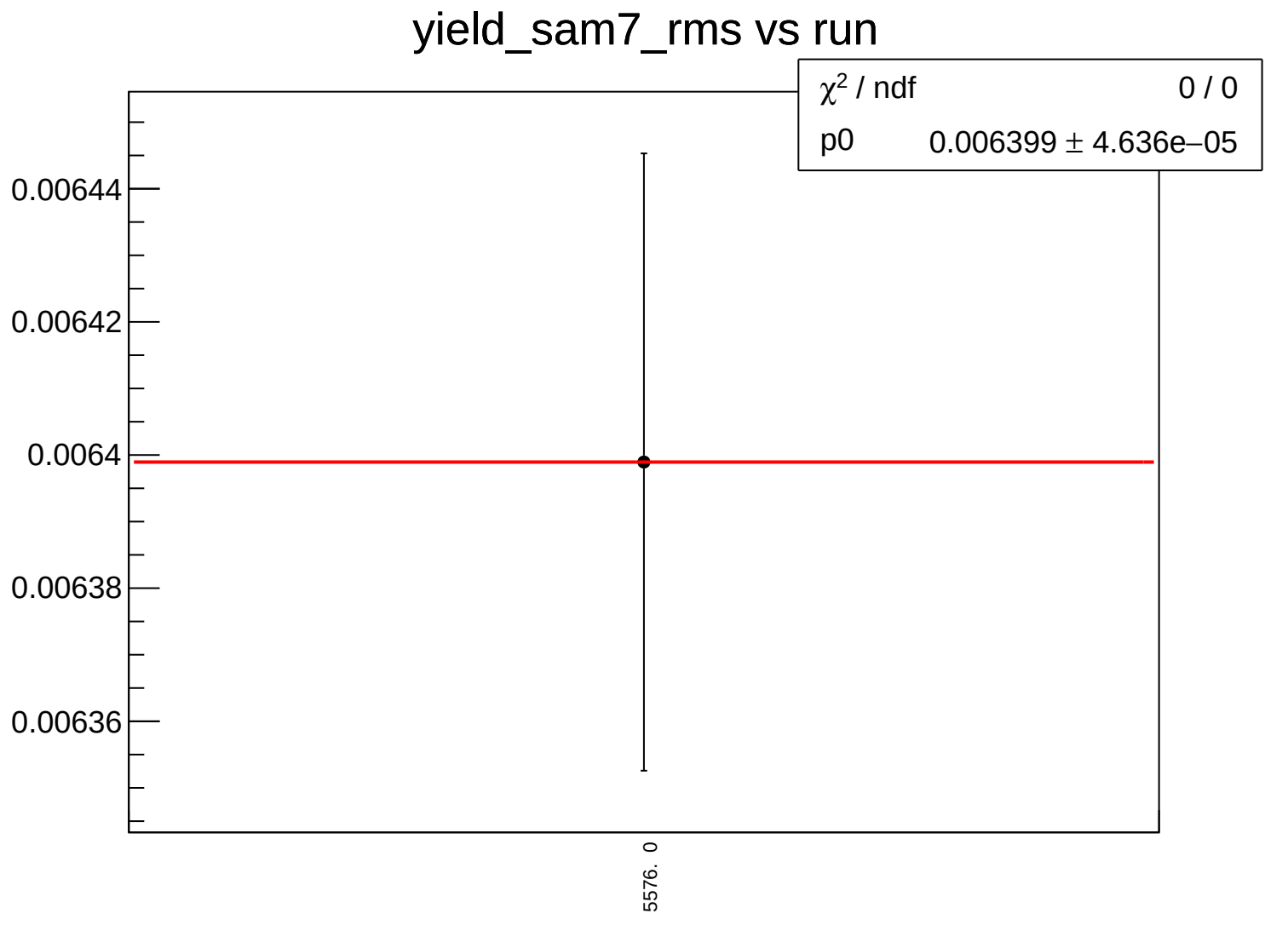
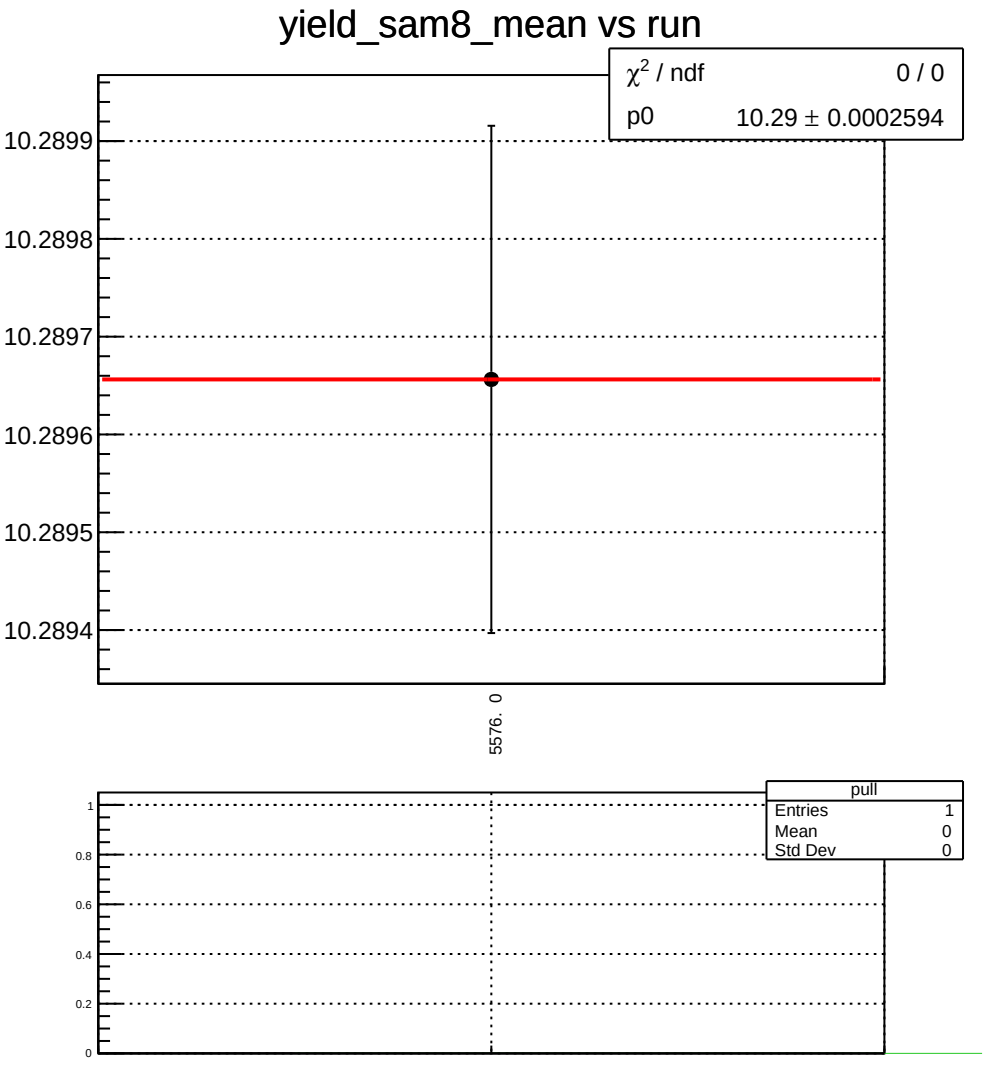
2
4
6
8

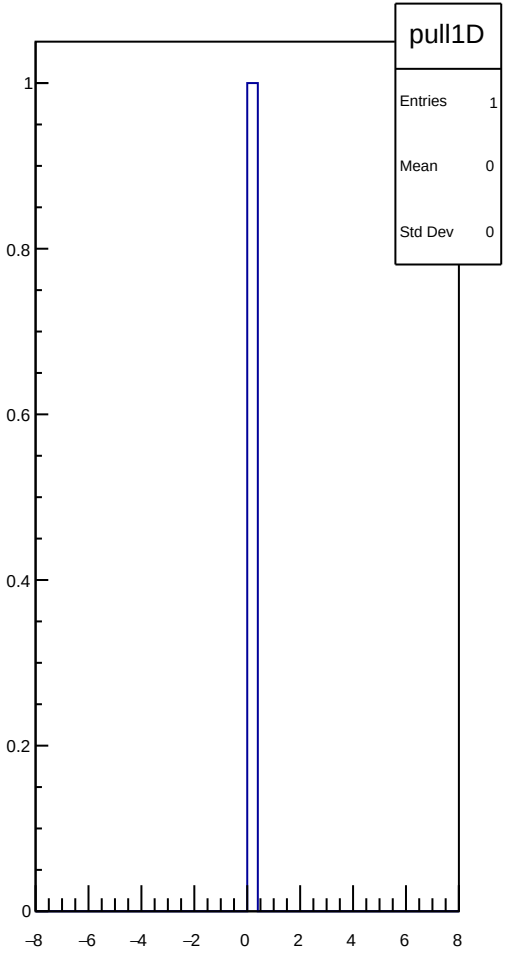

yield_sam6_rms vs run
χ² / ndf 0 / 0
p0 0.02282 ± 0.0001653
0.023
0.02295
0.0229
0.02285
0.0228
0.02275
0.0227
0.02265
5576. 0


yield_sam7_mean vs run
χ² / ndf 0 / 0
p0 2.646 ± 6.557e−05
2.6461
2.64608
2.64606
2.64604
2.64602
2.646
2.64598
2.64596
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 1
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 0 / 0
p0 0.006399 ± 4.636e−05
0.00644
0.00642
0.0064
0.00638
0.00636
5576. 0


yield_sam8_mean vs run
χ² / ndf 0 / 0
p0 10.29 ± 0.0002594
10.2899
10.2898
10.2897
10.2896
10.2895
10.2894
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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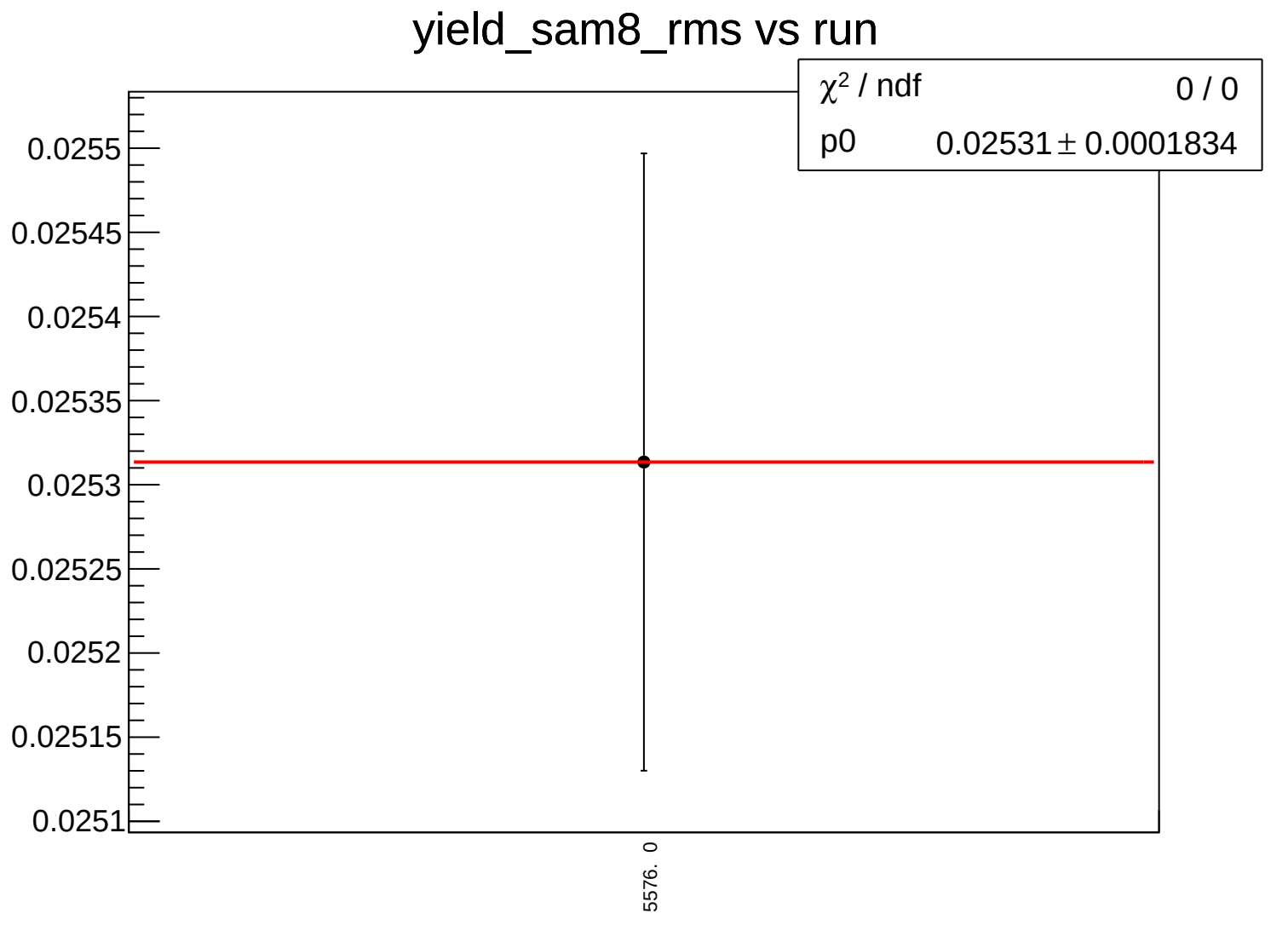
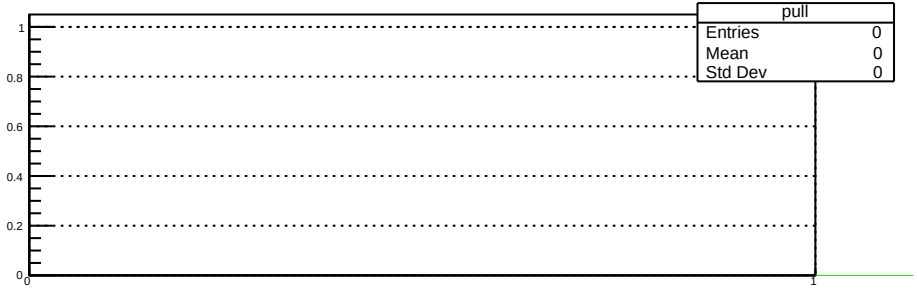
−4
−2
0
2
4
6
8


yield_sam8_rms vs run
χ² / ndf 0 / 0
p0 0.02531 ± 0.0001834
0.0255
0.02545
0.0254
0.02535
0.0253
0.02525
0.0252
0.02515
0.0251
5576. 0


pull
Entries 0
Mean 0
Std Dev 0
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0.4
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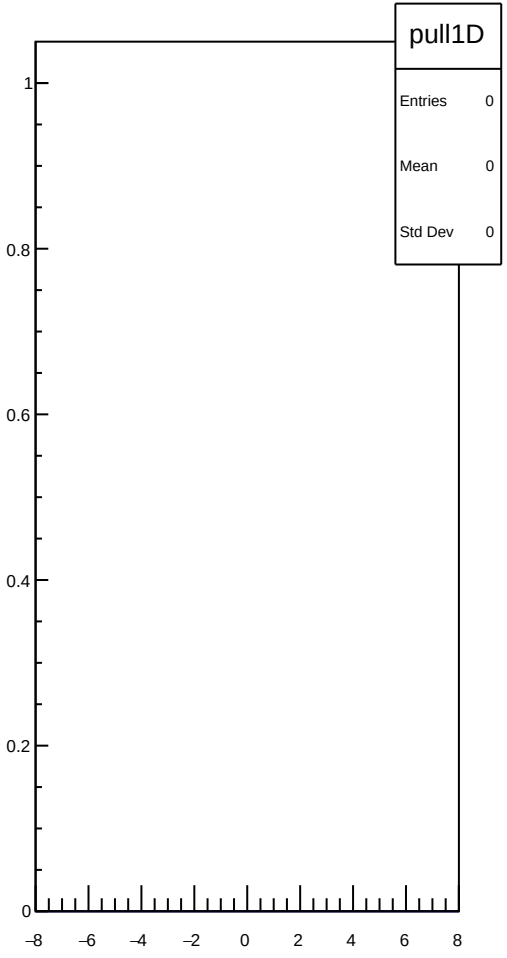
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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–4
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2
4
6
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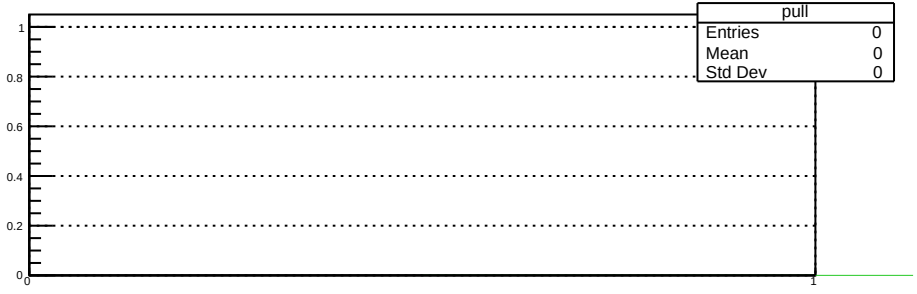
pull
Entries 0
Mean 0
Std Dev 0
1
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0.6
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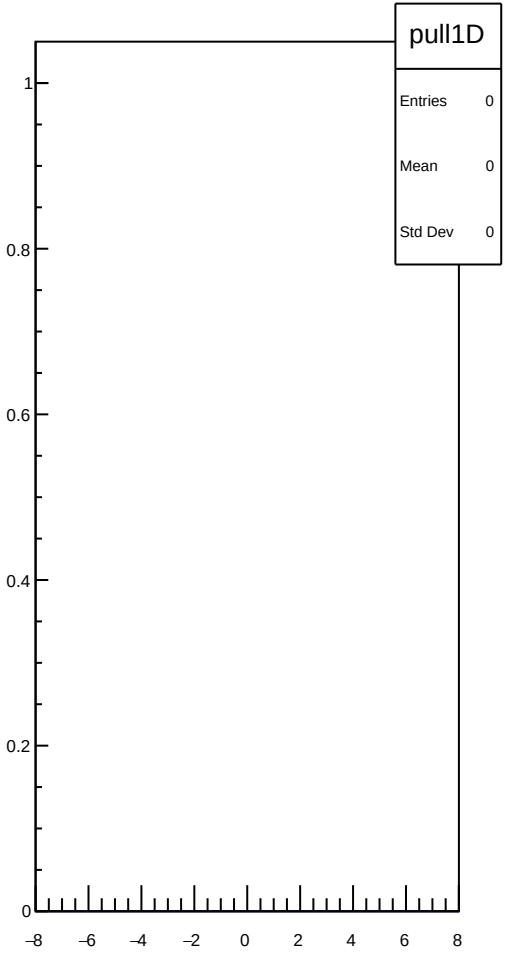
0
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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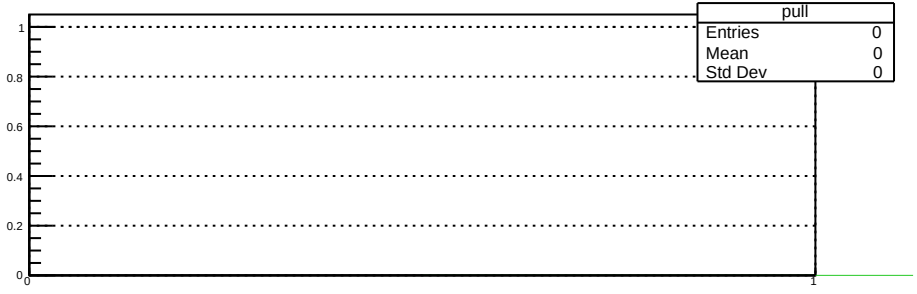
pull
Entries 0
Mean 0
Std Dev 0
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0.6
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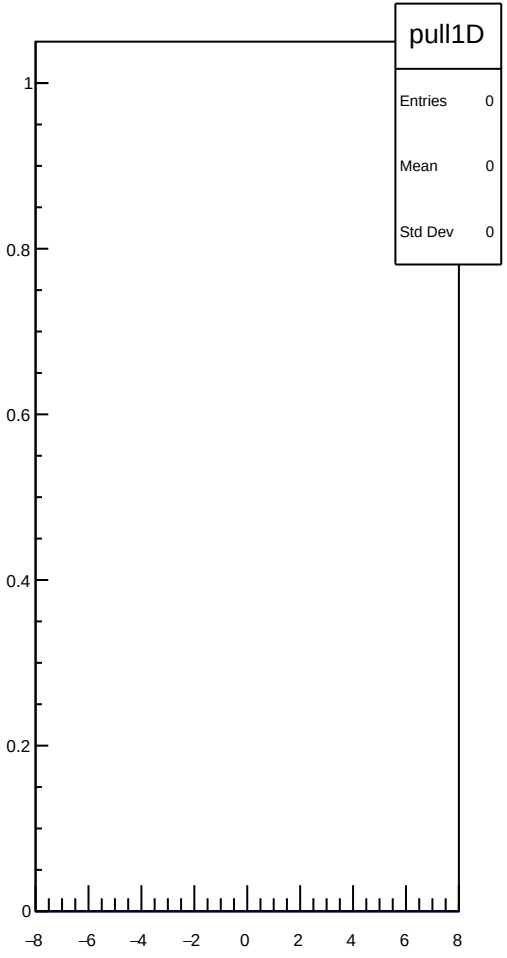
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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–4
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6
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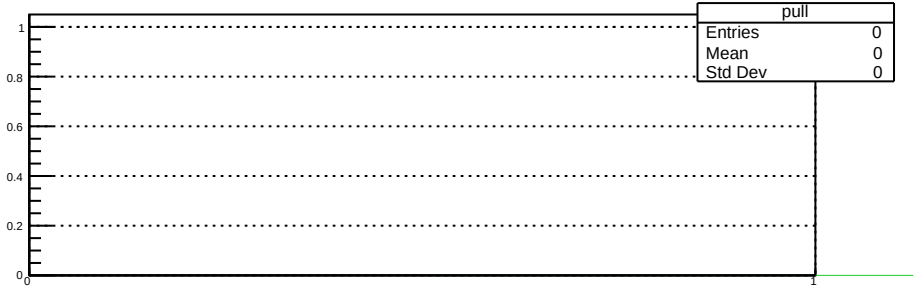
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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0
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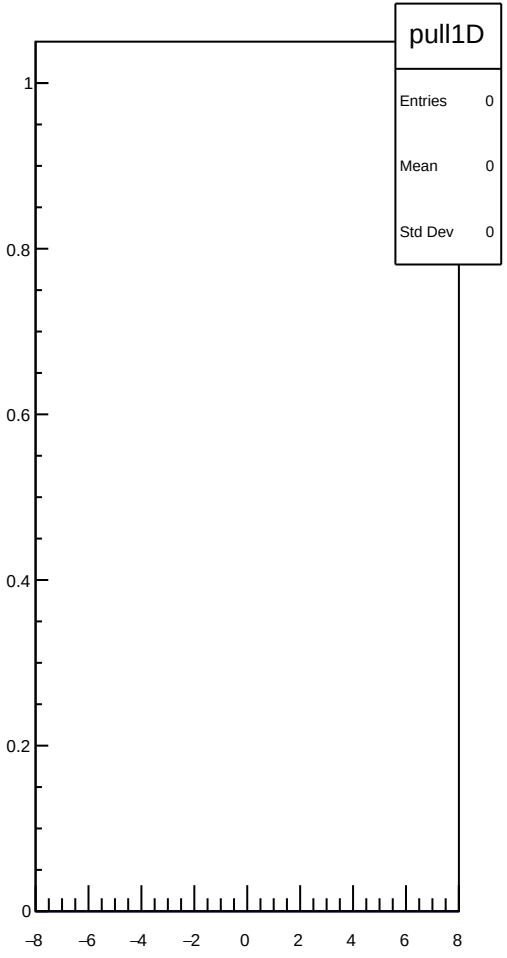
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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0
–8
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–4
–2
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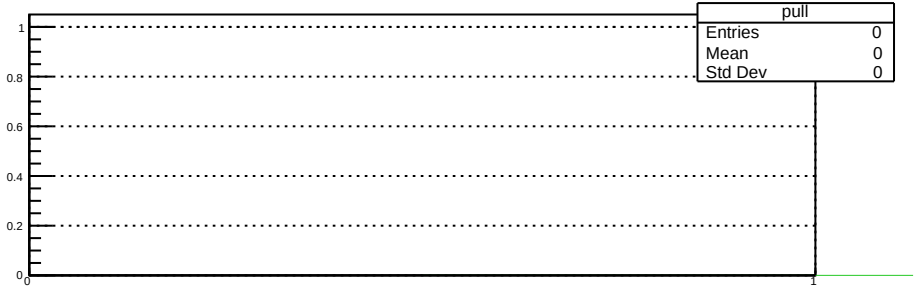
2
4
6
8


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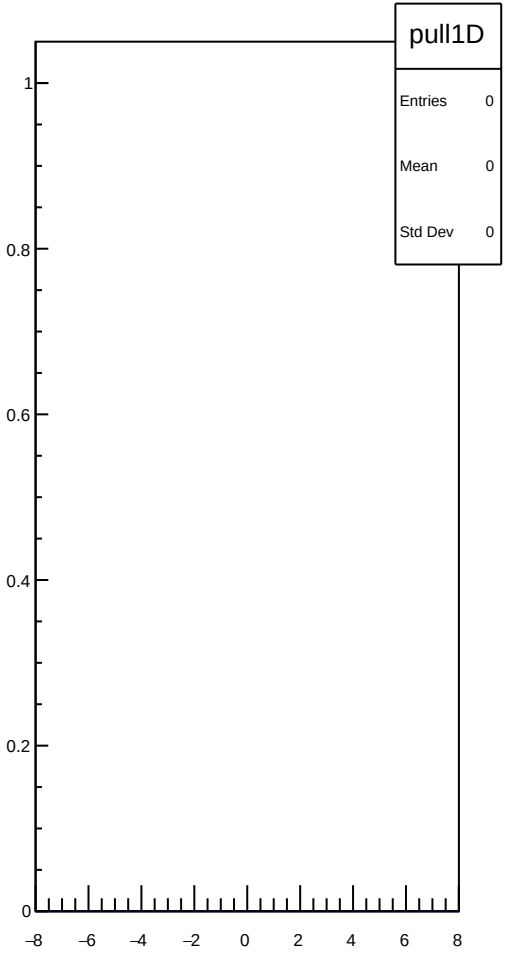
pull1D
Entries 0
Mean 0
Std Dev 0
1
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0.6
0.4
0.2
0
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–6
–4
–2
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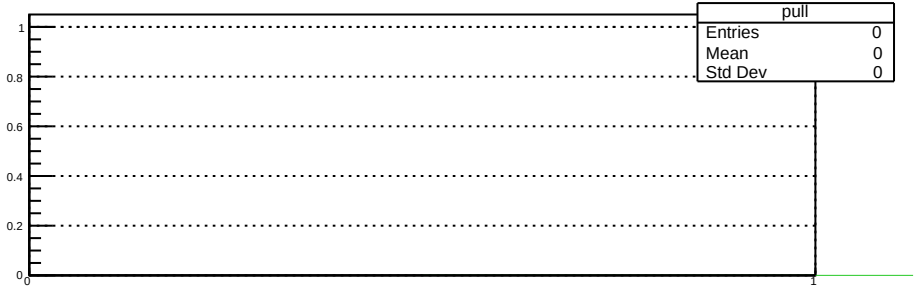
2
4
6
8


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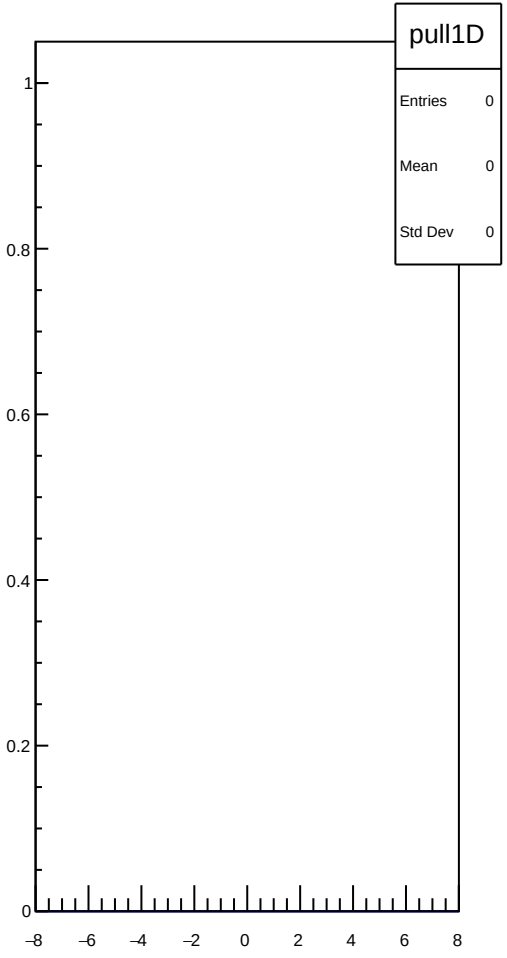
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
–6
–4
–2
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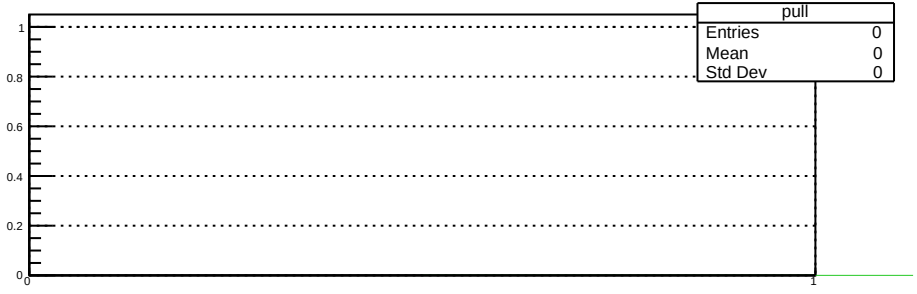
2
4
6
8


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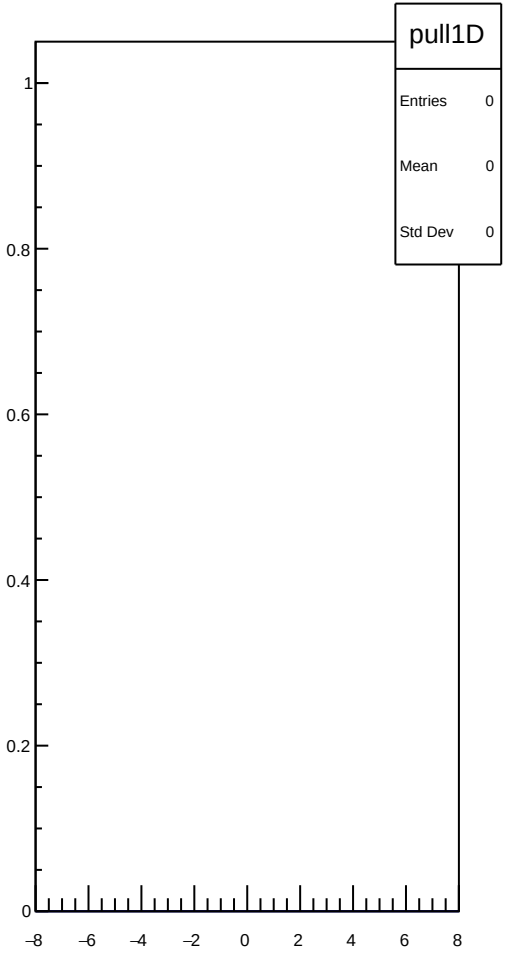
0.6
0.4
0.2
0
0
1


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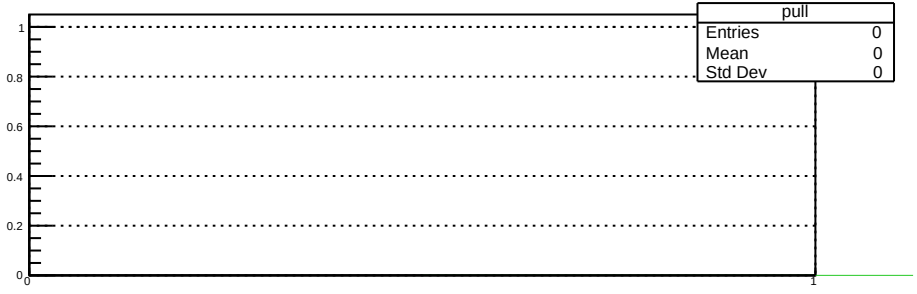
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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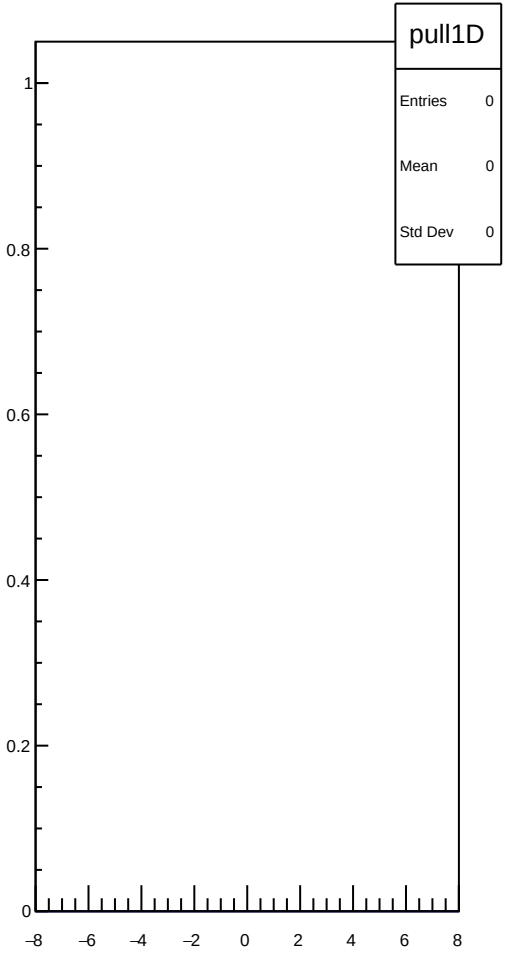
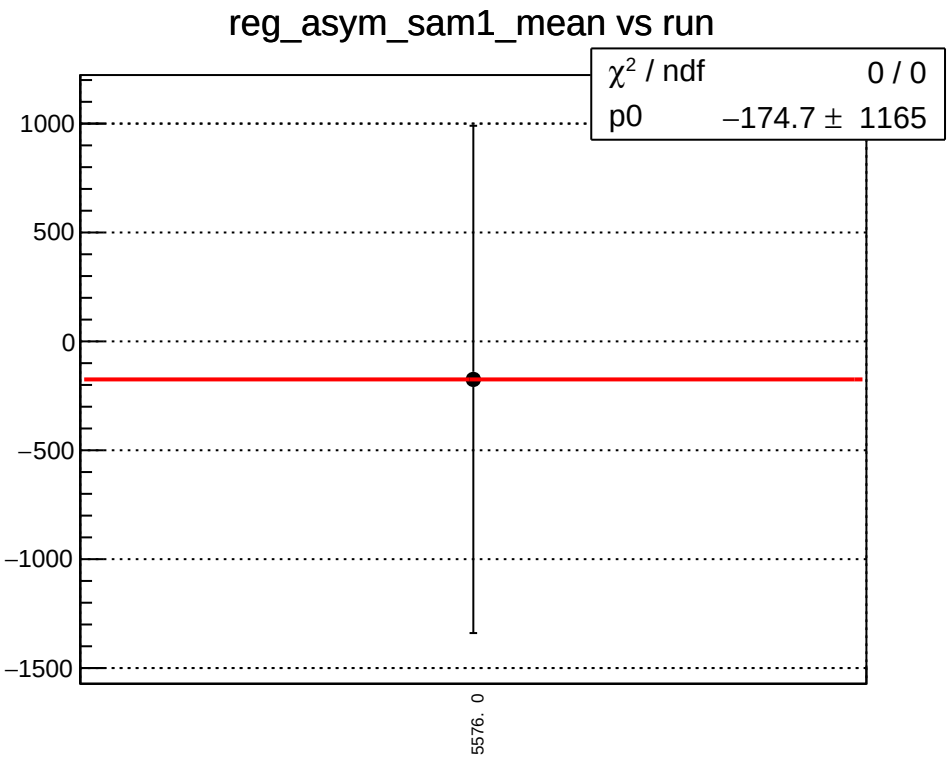
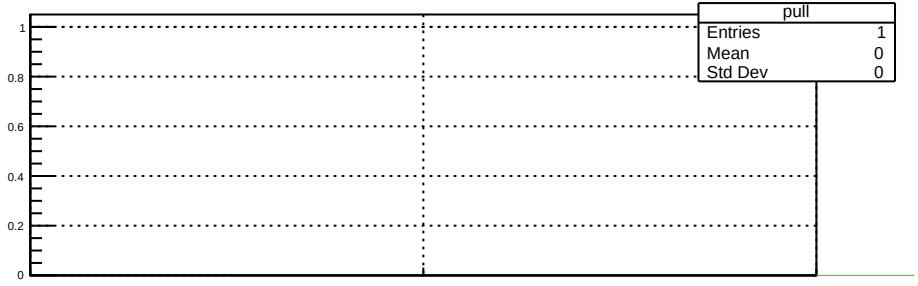
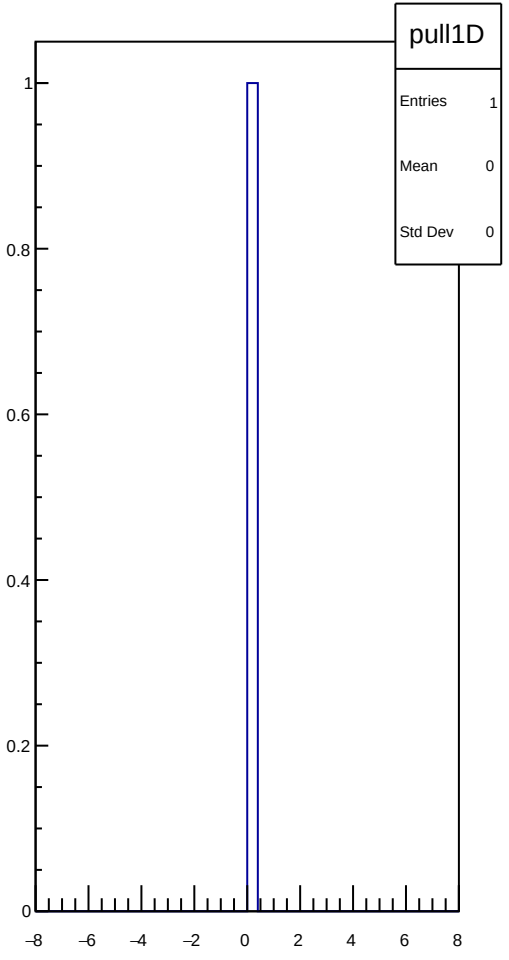
0.6
0.4
0.2
0
0
1


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


reg_asym_sam1_mean vs run
χ² / ndf 0 / 0
p0 −174.7 ± 1165
1000
500
0
−500
−1000
−1500
5576. 0


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


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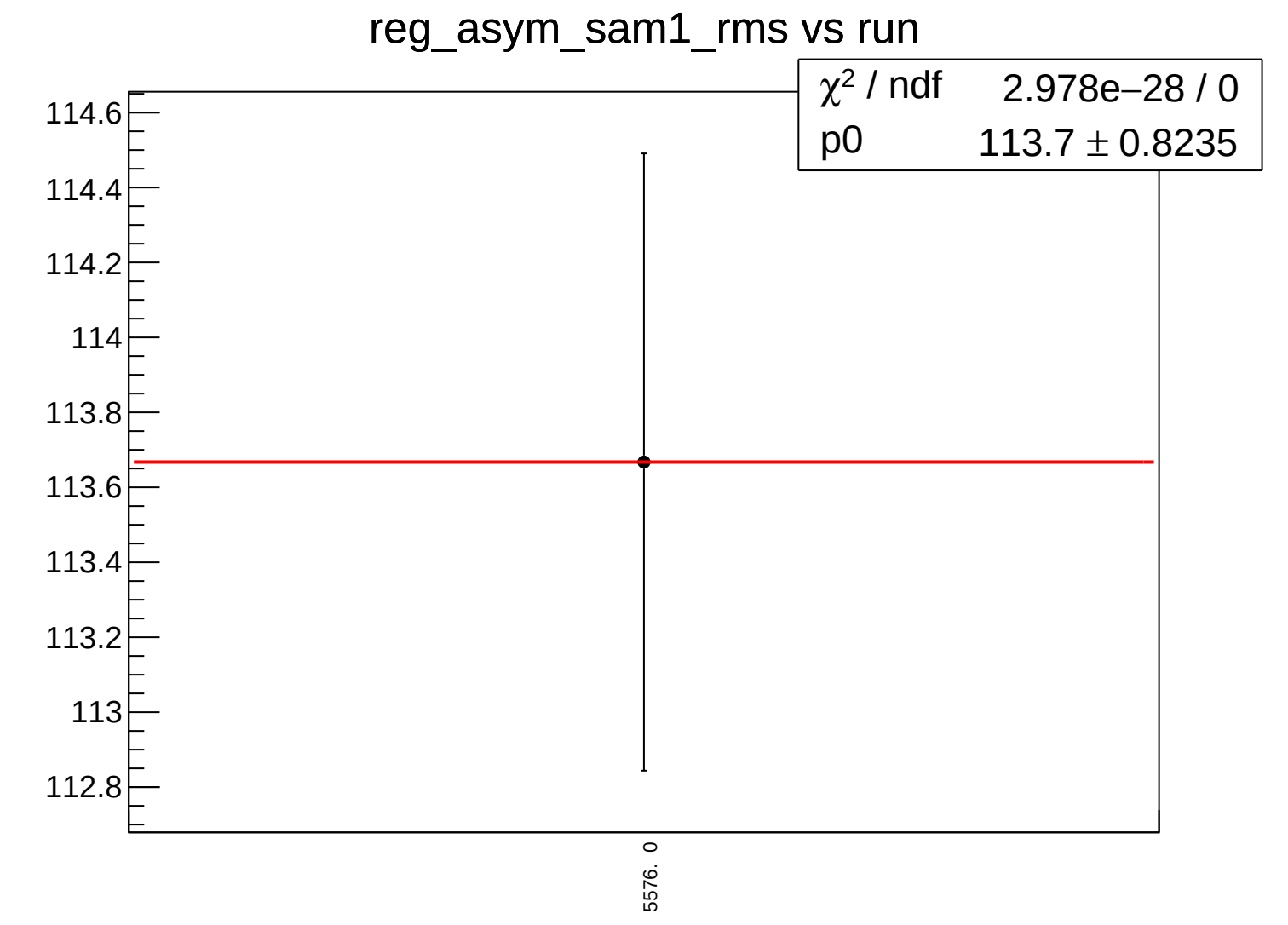
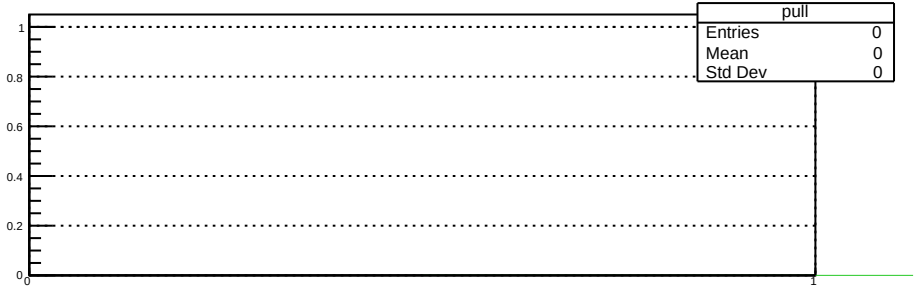
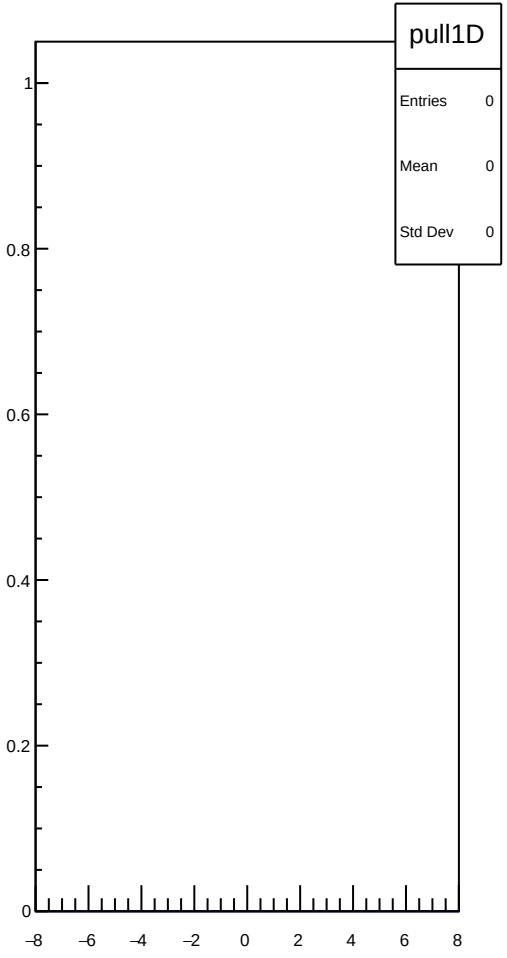
2
4
6
8


reg_asym_sam1_rms vs run
χ² / ndf 2.978e–28 / 0
p0 113.7 ± 0.8235
114.6
114.4
114.2
114
113.8
113.6
113.4
113.2
113
112.8
5576. 0


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


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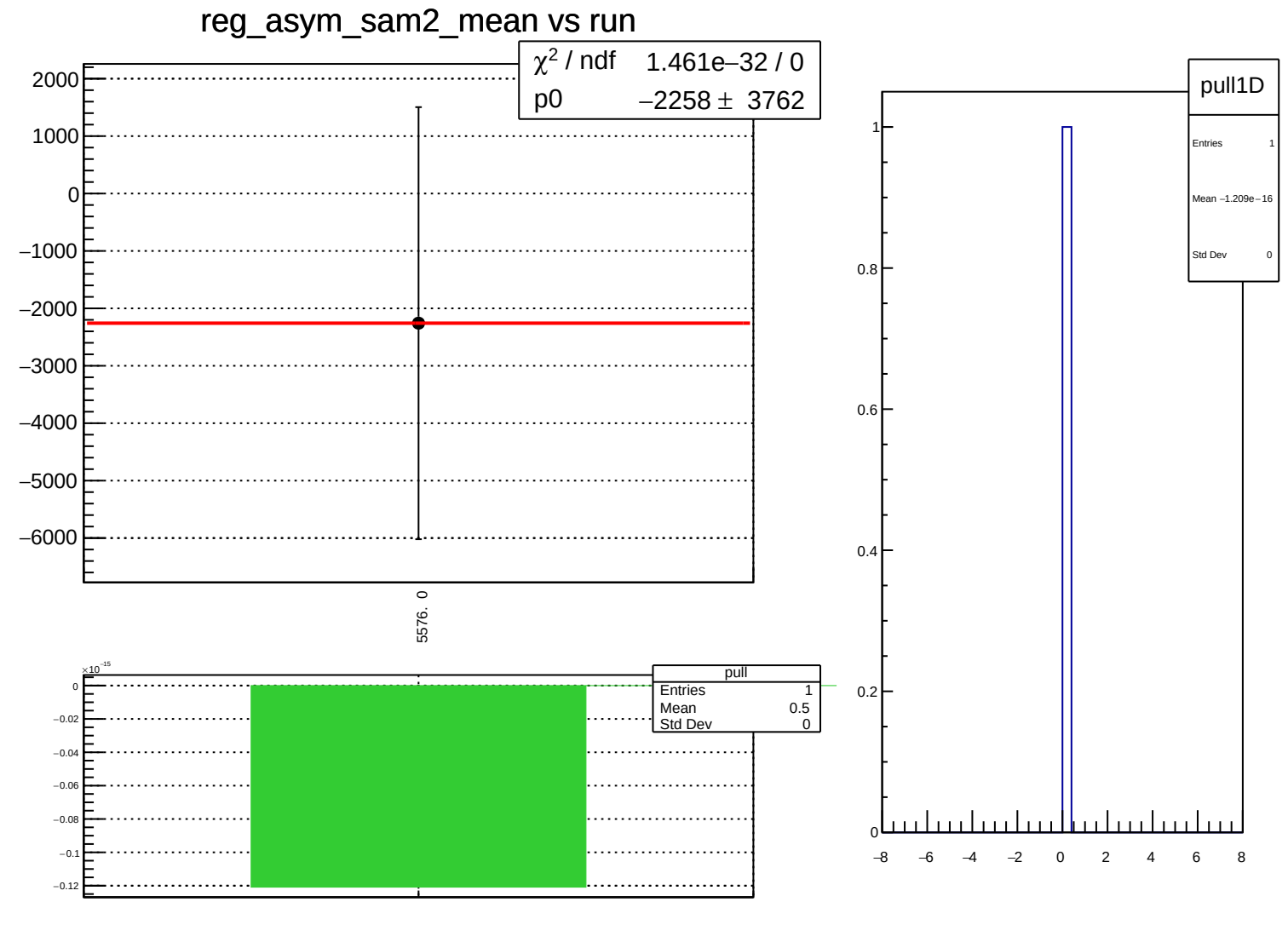
2
4
6
8


reg_asym_sam2_mean vs run
χ² / ndf 1.461e−32 / 0
p0 −2258 ± 3762
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.209e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
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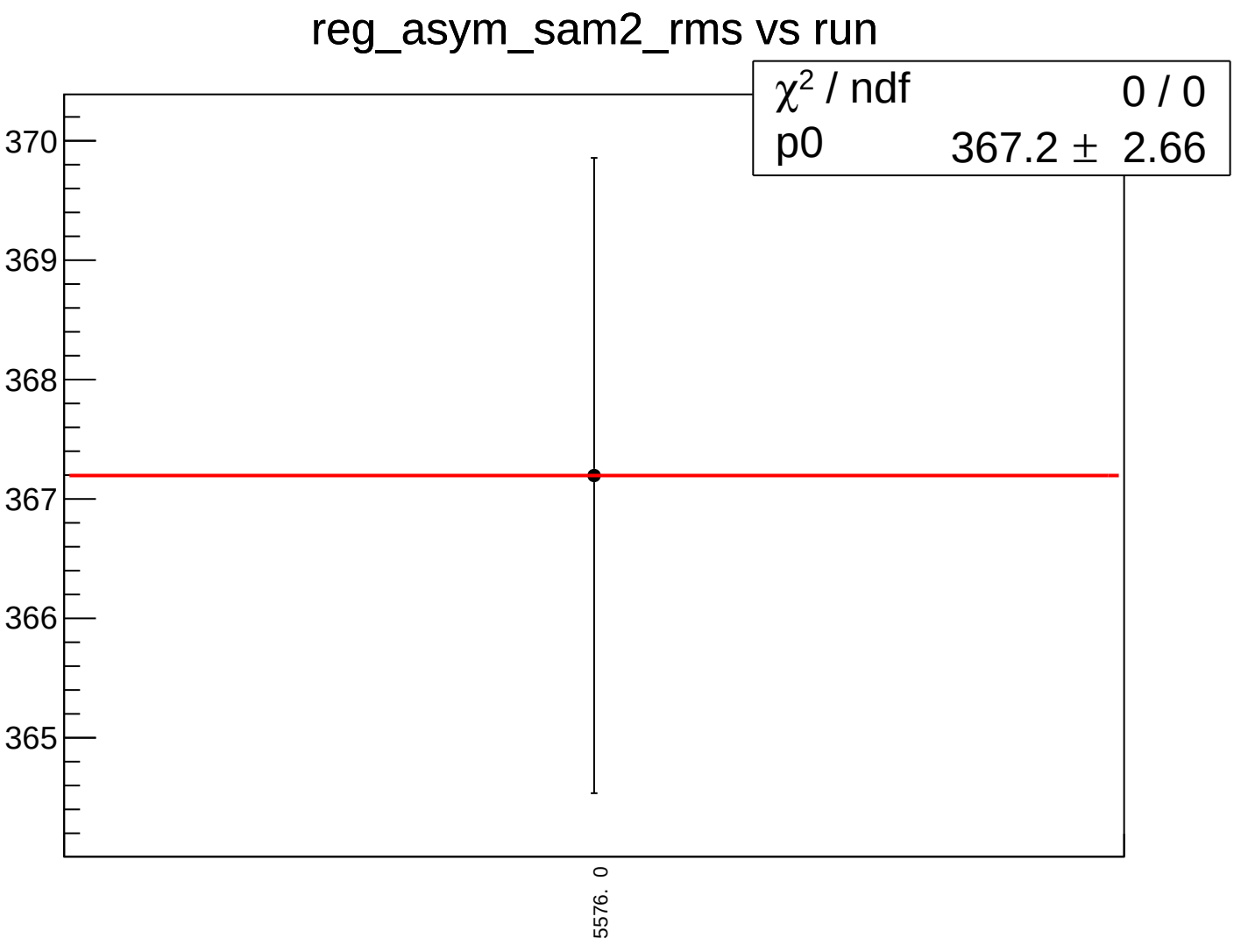
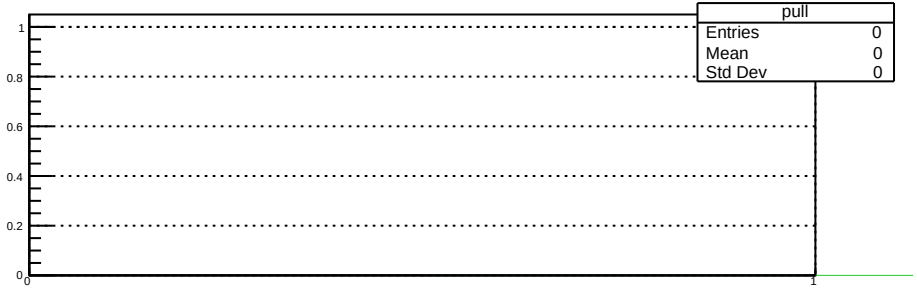
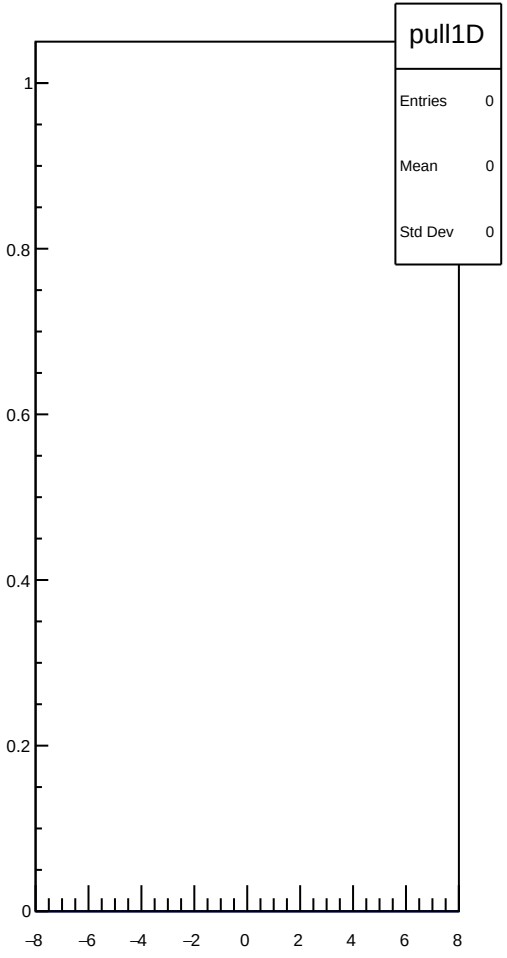
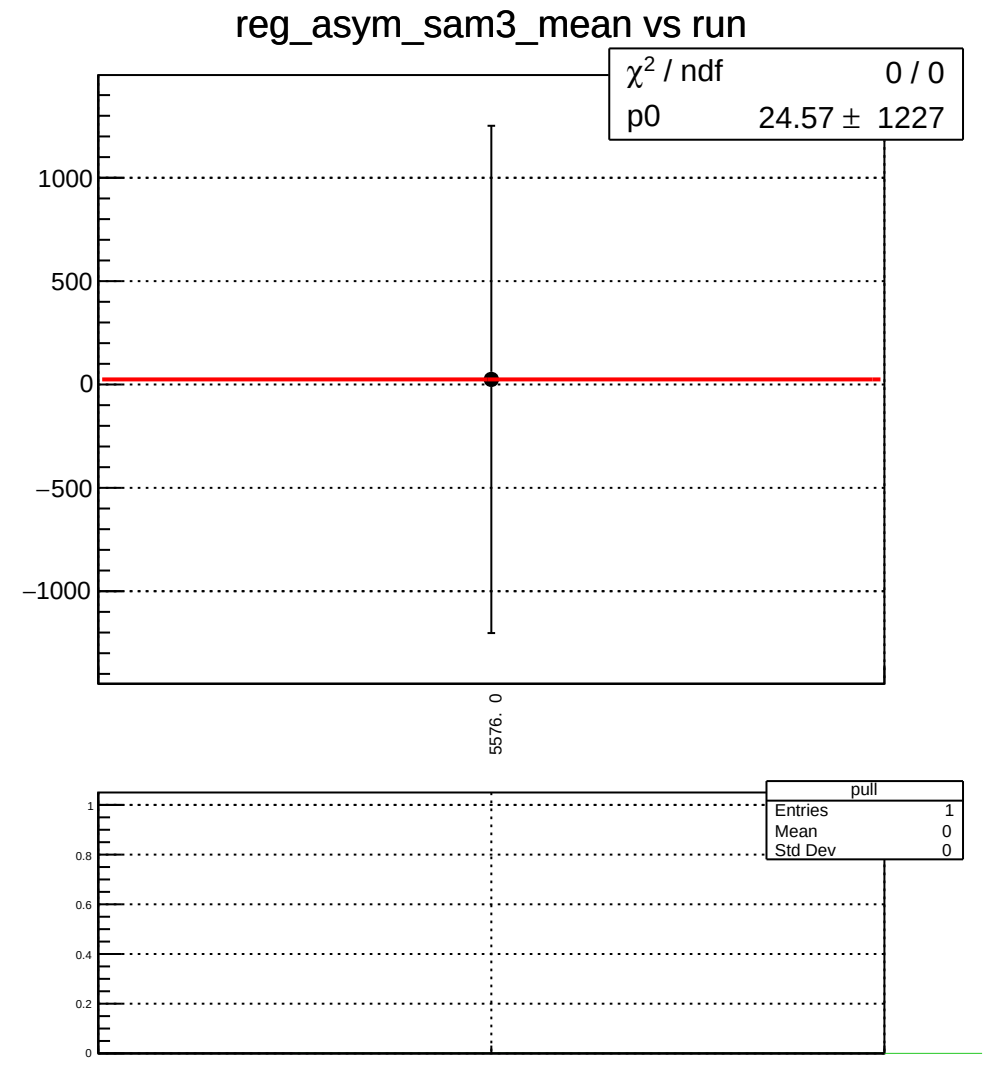
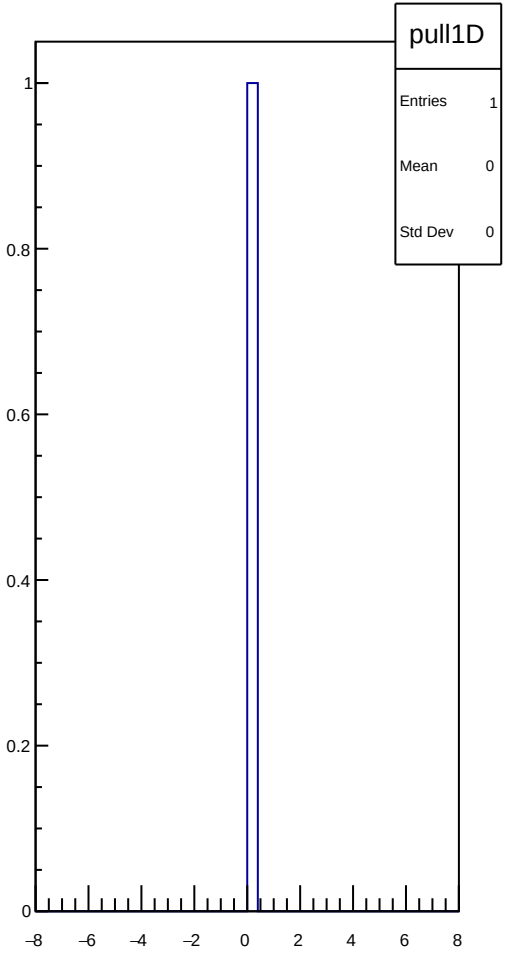
−4
−2
0
2
4
6
8

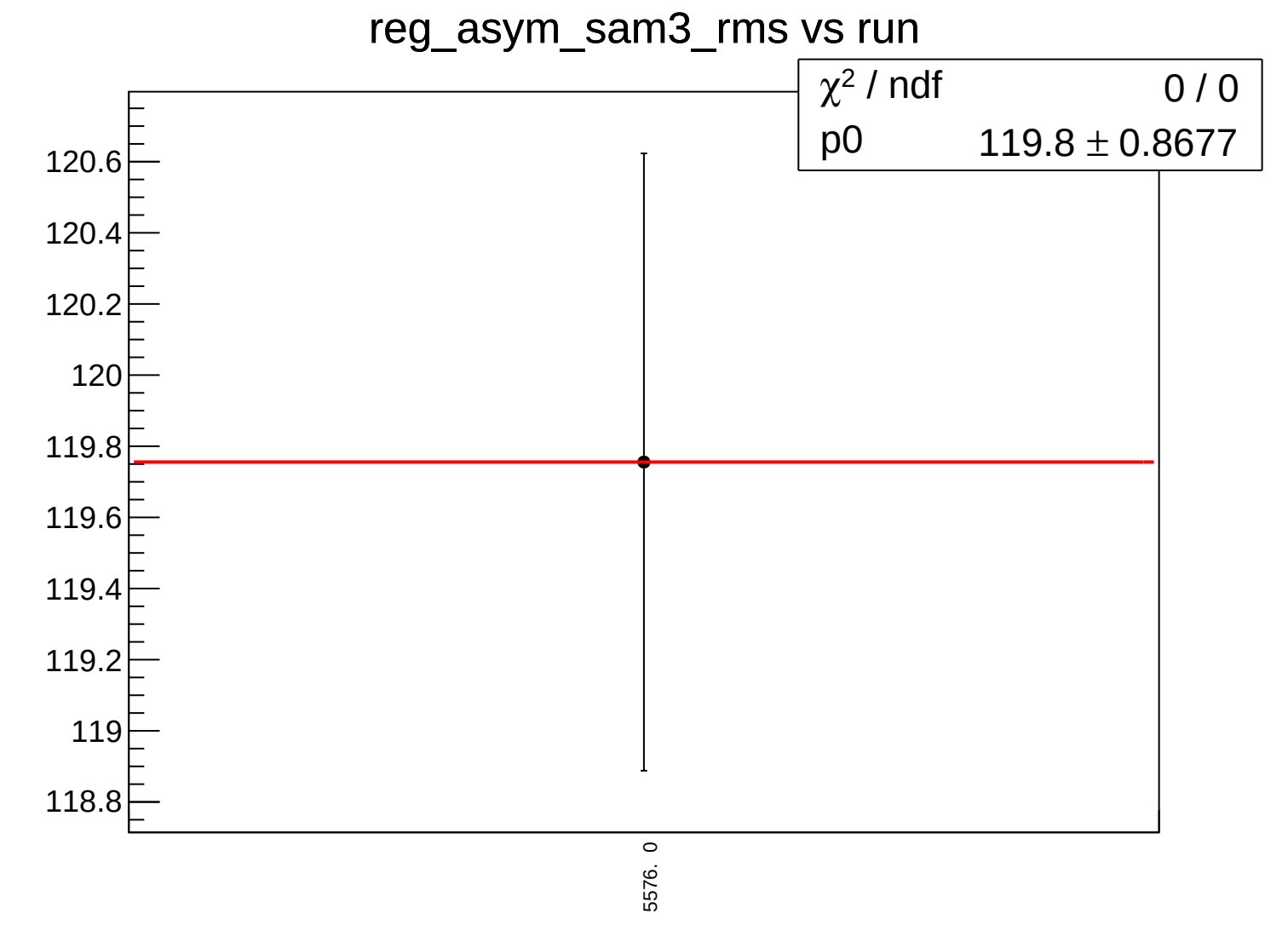

reg_asym_sam2_rms vs run
χ² / ndf 0 / 0
p0 367.2 ± 2.66
370
369
368
367
366
365
5576. 0

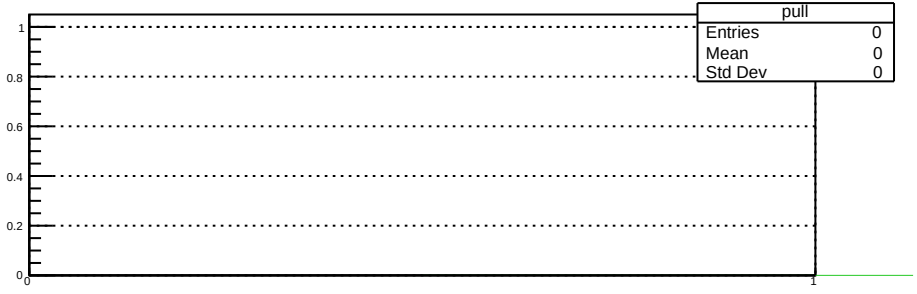

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

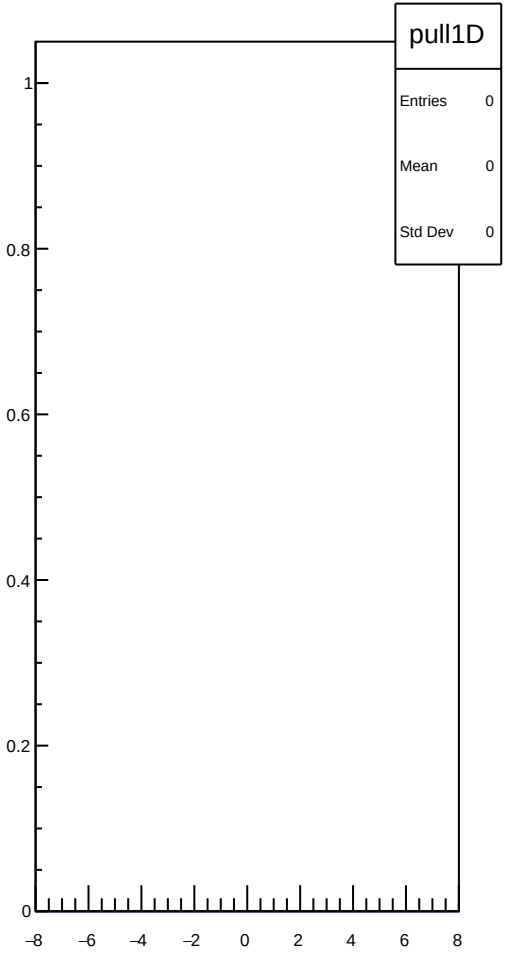

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

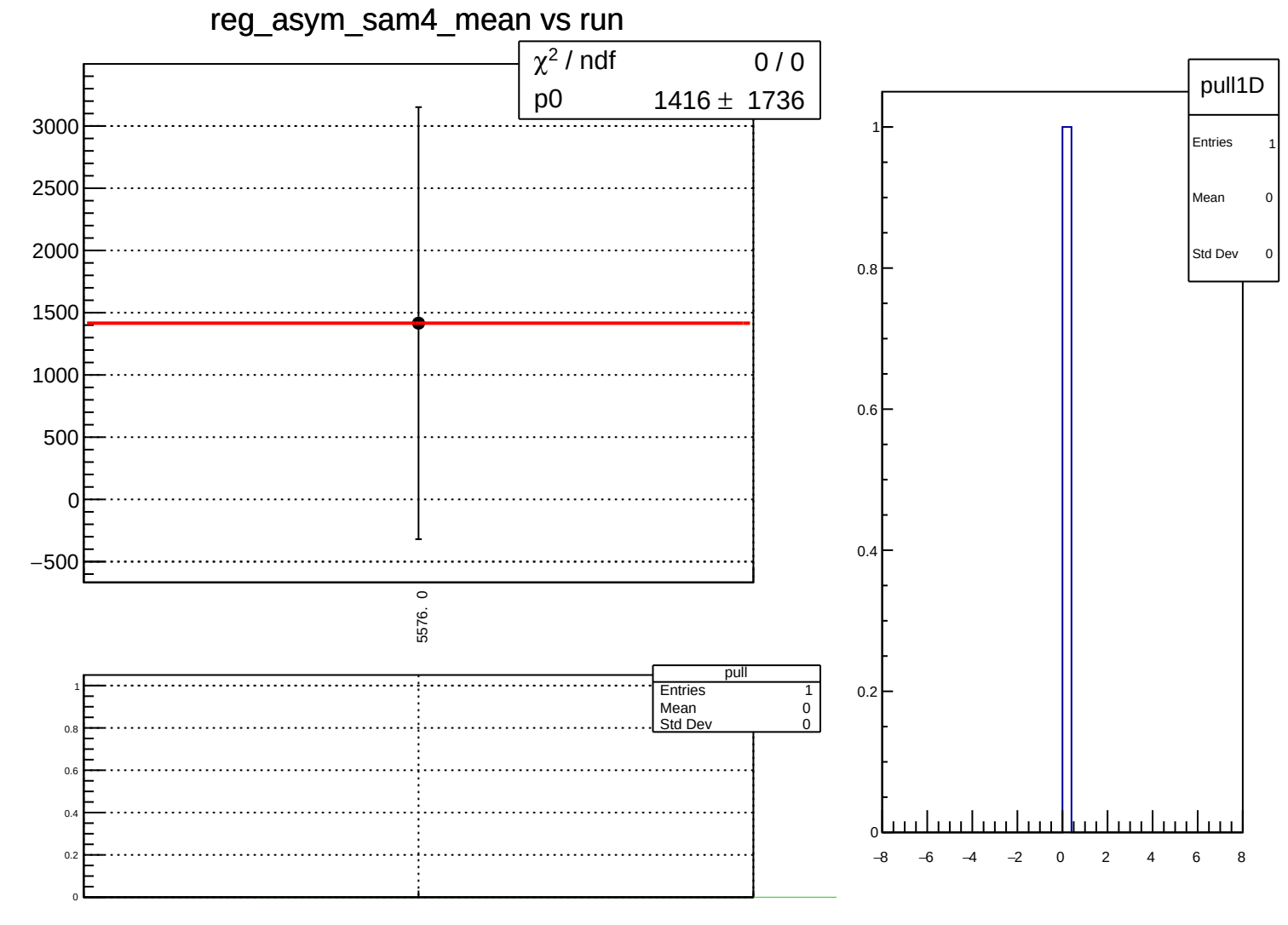

reg_asym_sam3_mean vs run
χ² / ndf 0 / 0
p0 24.57 ± 1227
1000
500
0
−500
−1000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

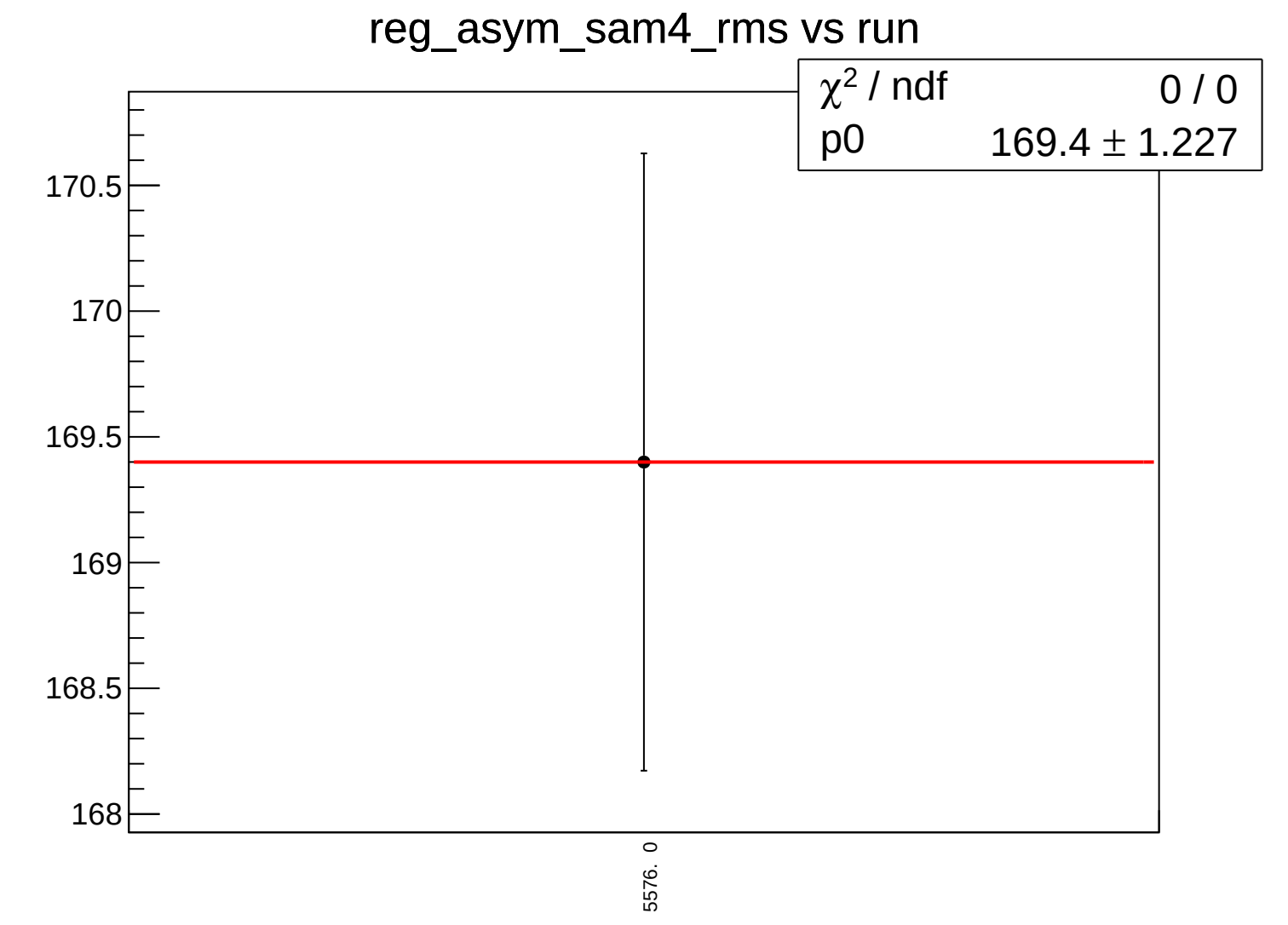

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

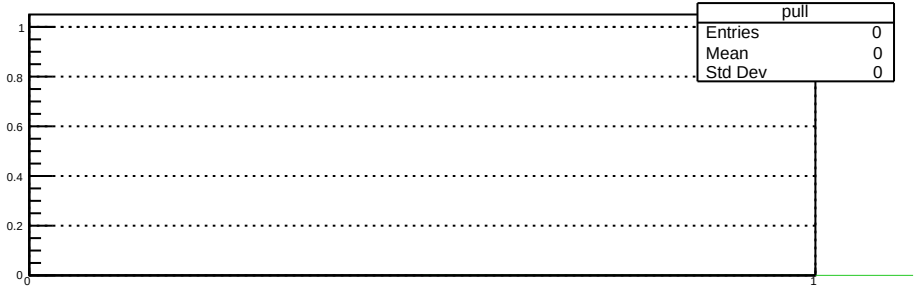

reg_asym_sam3_rms vs run
χ² / ndf 0 / 0
p0 119.8 ± 0.8677
120.6
120.4
120.2
120
119.8
119.6
119.4
119.2
119
118.8
5576. 0

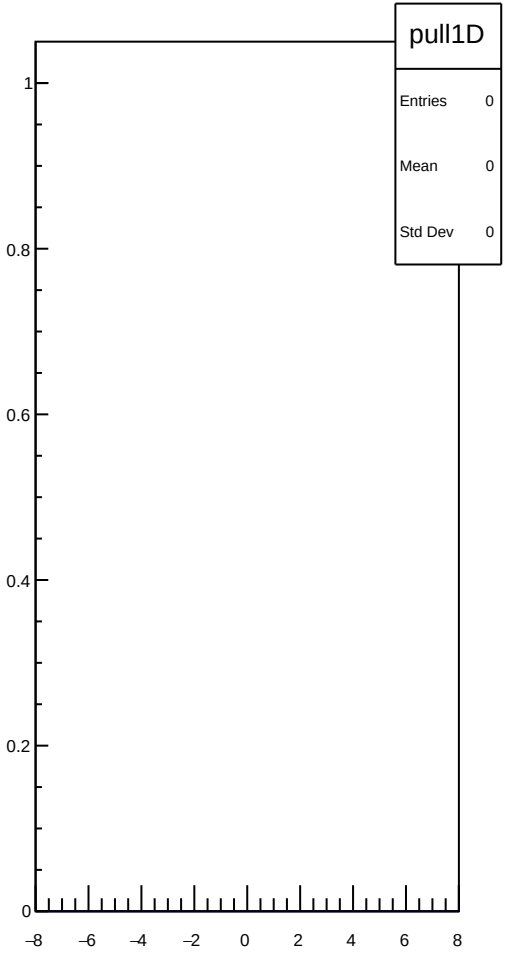

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

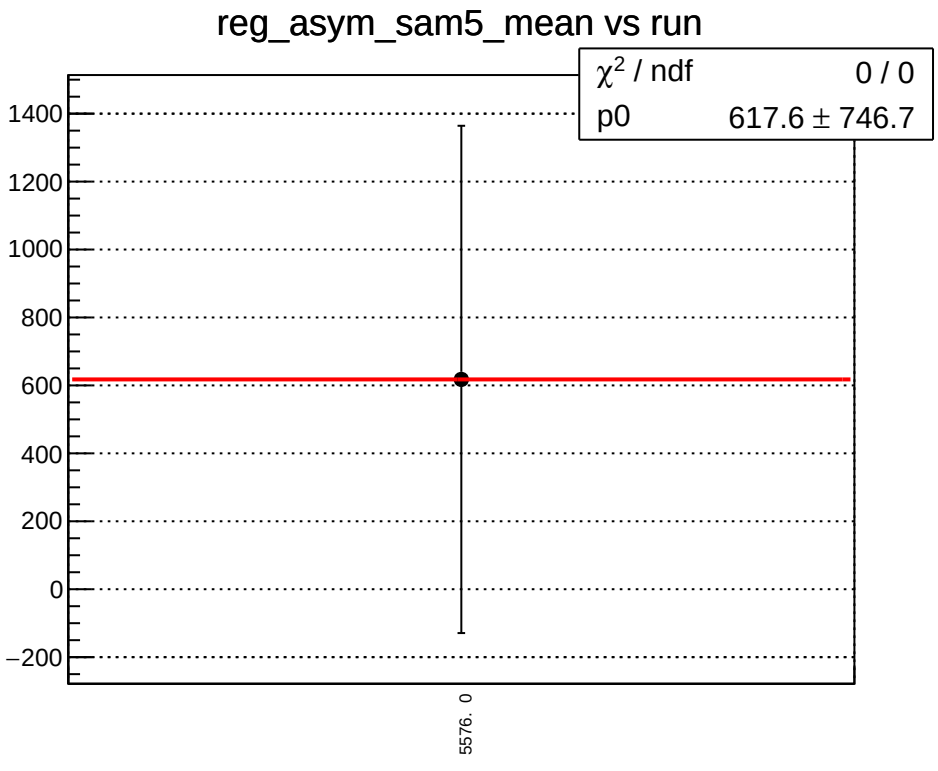

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

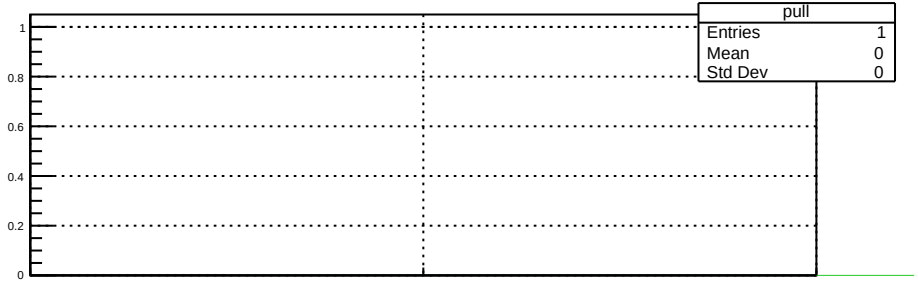

reg_asym_sam4_mean vs run
χ² / ndf 0 / 0
p0 1416 ± 1736
3000
2500
2000
1500
1000
500
0
−500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

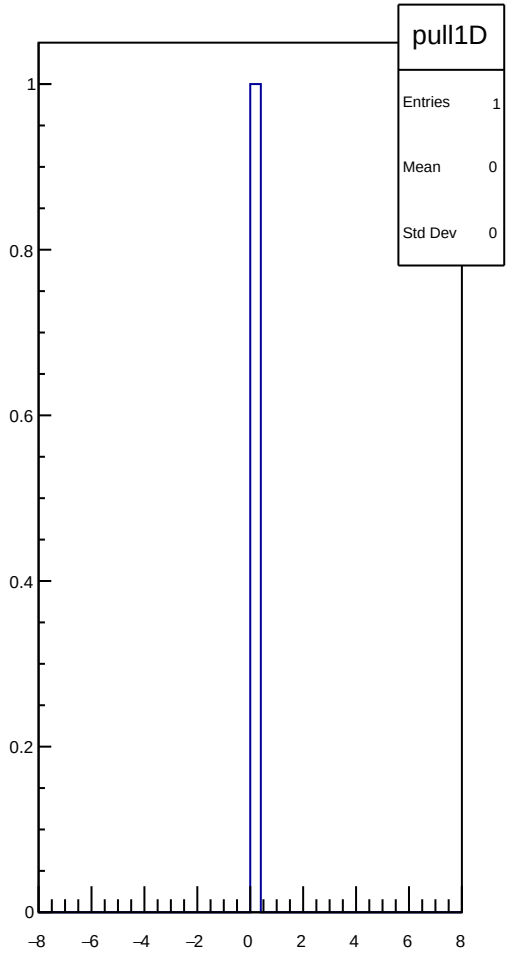

reg_asym_sam4_rms vs run
χ² / ndf 0 / 0
p0 169.4 ± 1.227
170.5
170
169.5
169
168.5
168
5576. 0

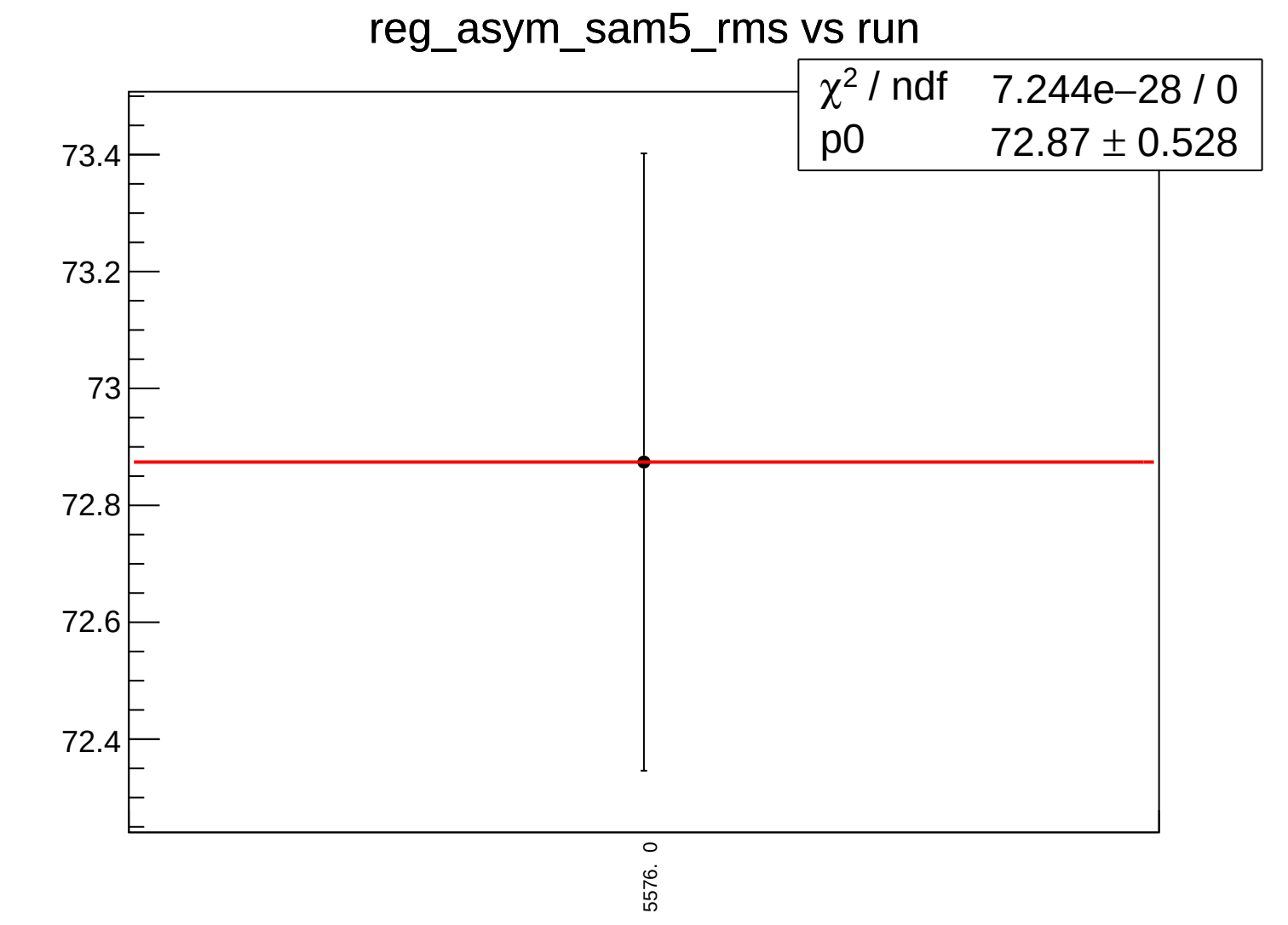

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

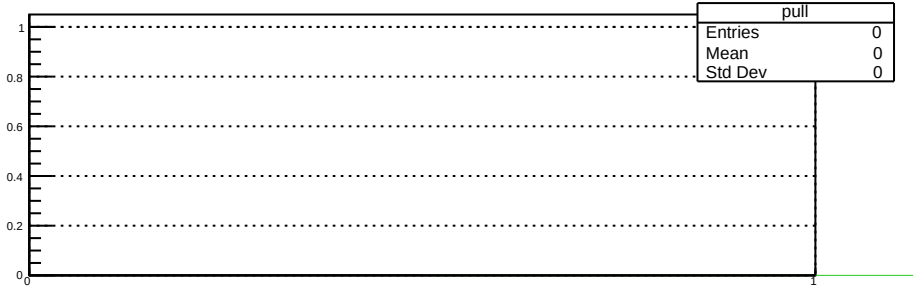

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

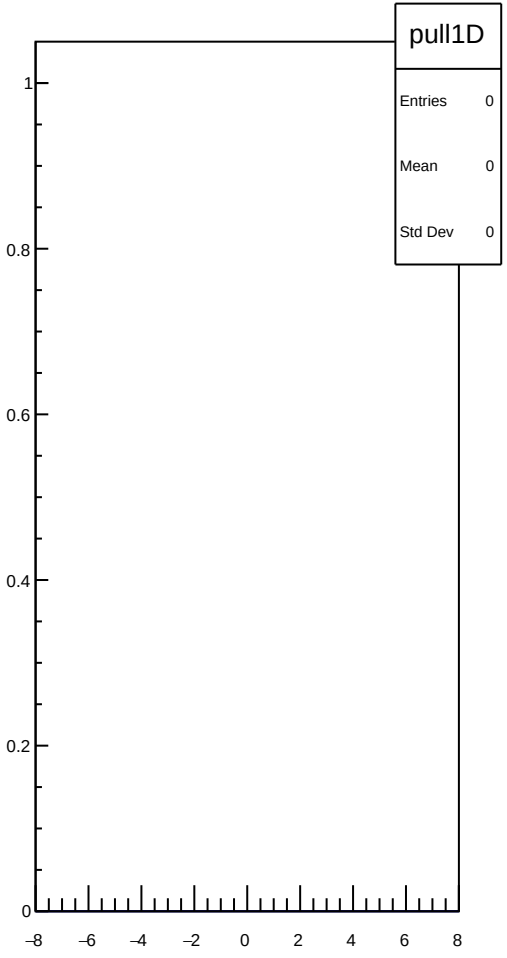

reg_asym_sam5_mean vs run
χ² / ndf 0 / 0
p0 617.6 ± 746.7
1400
1200
1000
800
600
400
200
0
−200
5576. 0

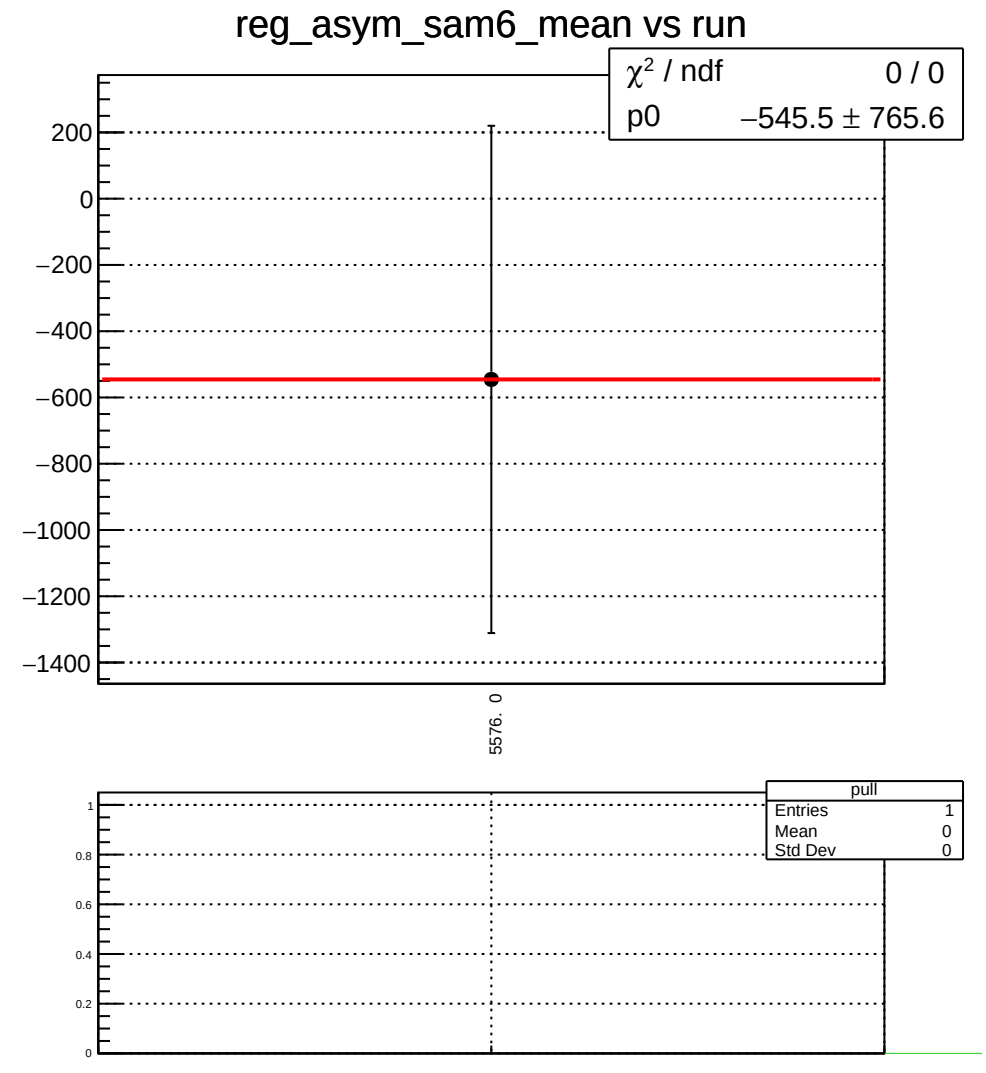

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

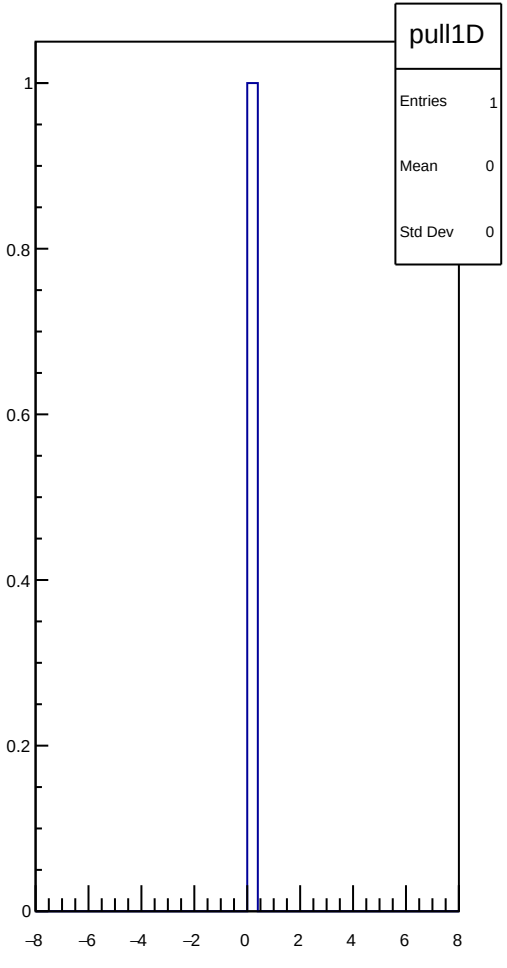

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

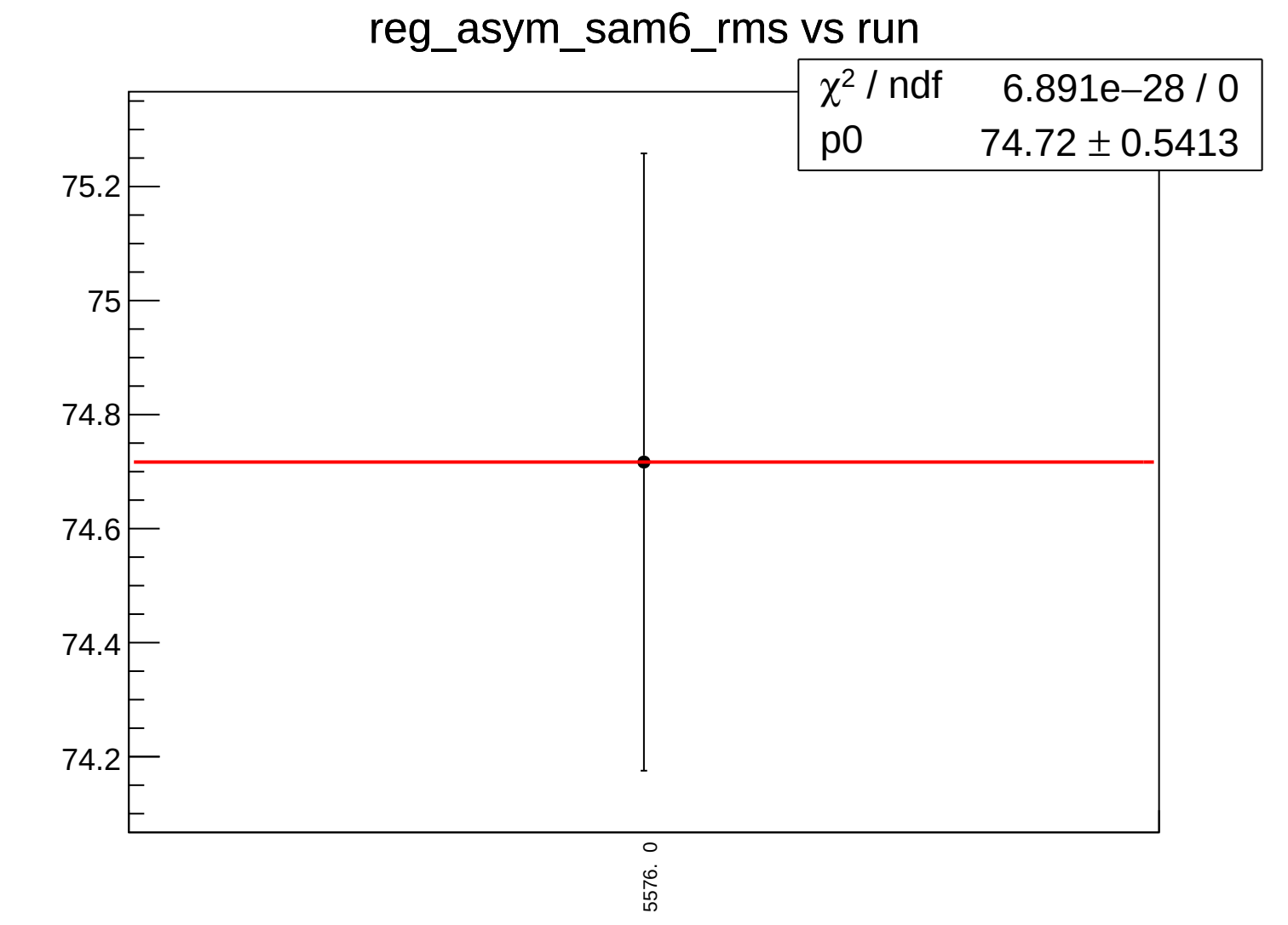

reg_asym_sam5_rms vs run
χ² / ndf 7.244e−28 / 0
p0 72.87 ± 0.528
73.4
73.2
73
72.8
72.6
72.4
5576. 0

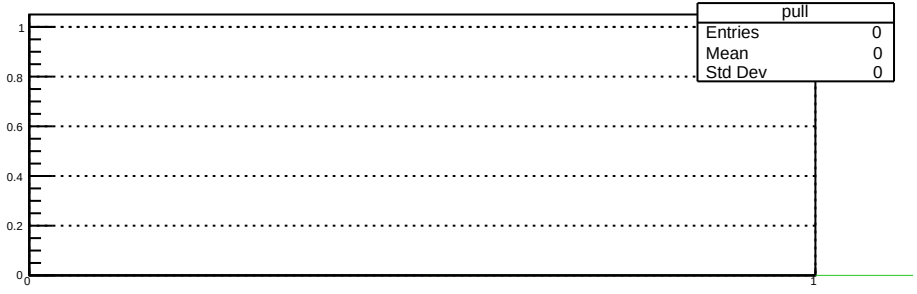

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

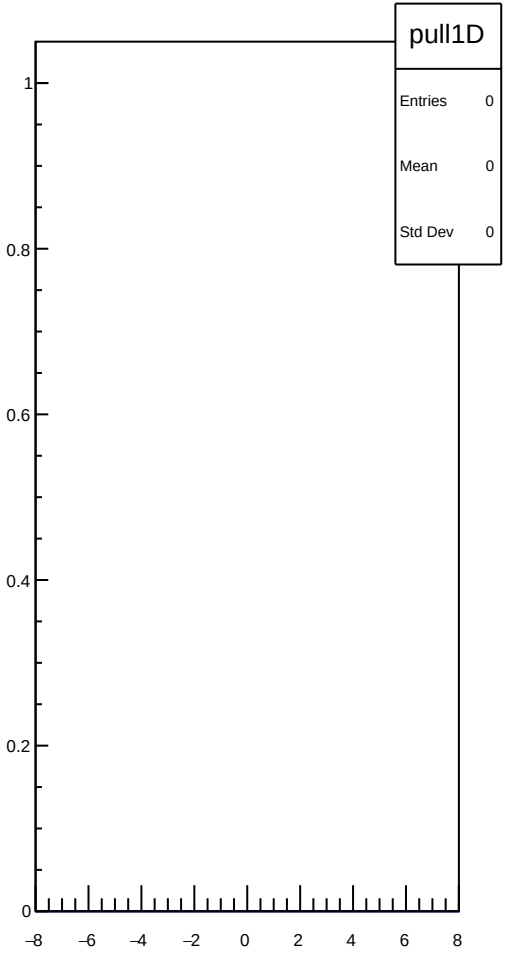

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

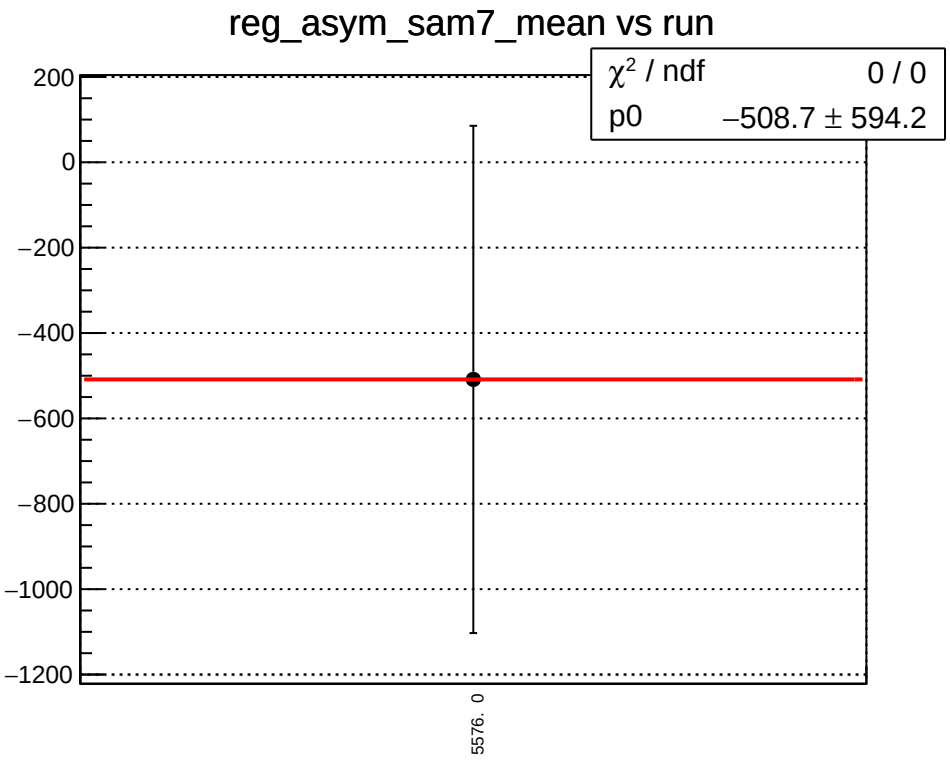

reg_asym_sam6_mean vs run
χ² / ndf 0 / 0
p0 −545.5 ± 765.6
200
0
−200
−400
−600
−800
−1000
−1200
−1400
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

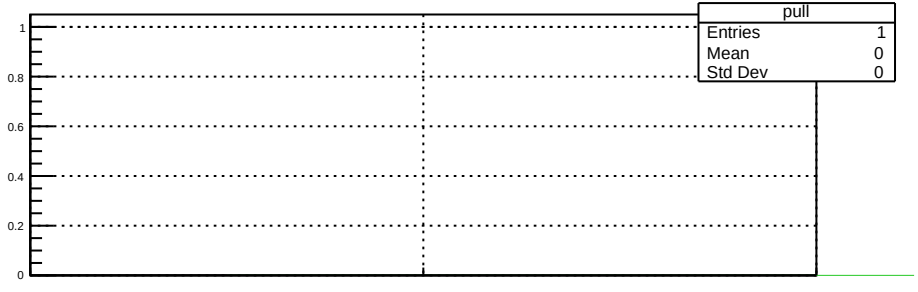

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

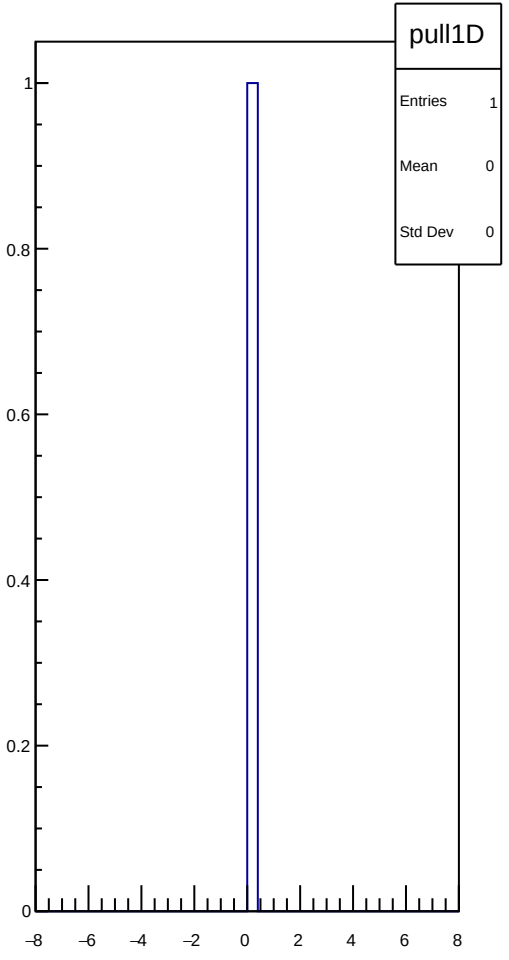

reg_asym_sam6_rms vs run
χ² / ndf 6.891e–28 / 0
p0 74.72 ± 0.5413
75.2
75
74.8
74.6
74.4
74.2
5576. 0

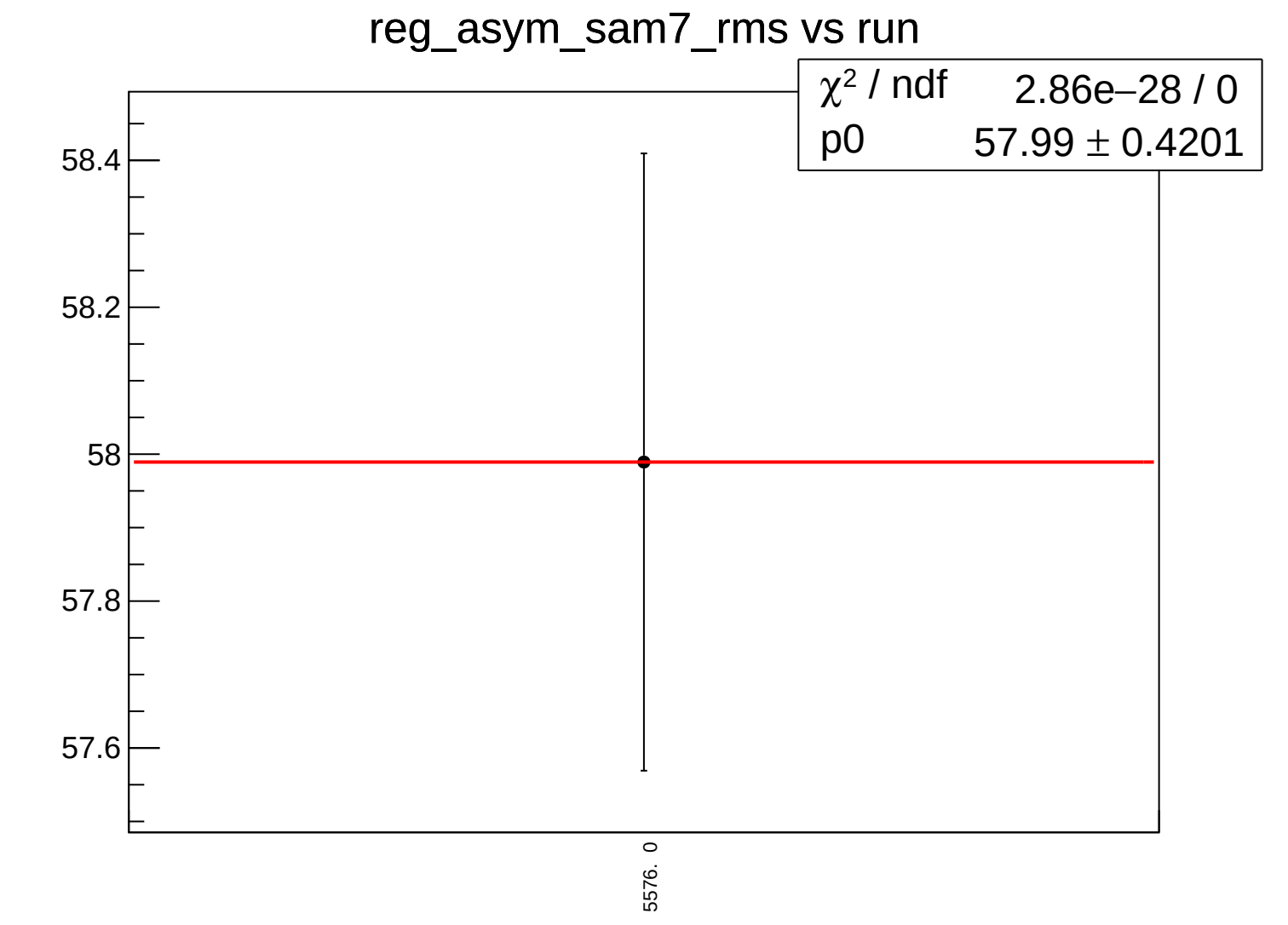

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

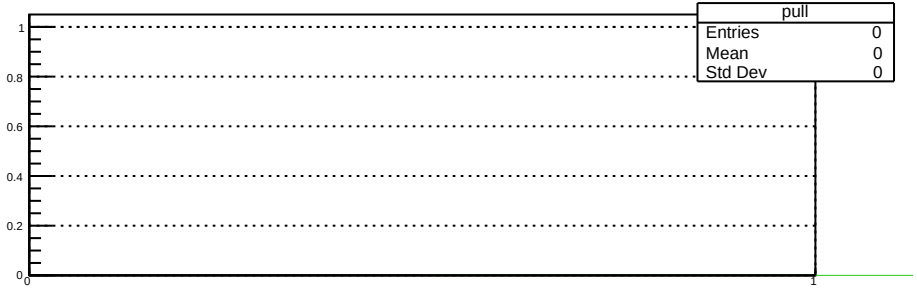

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

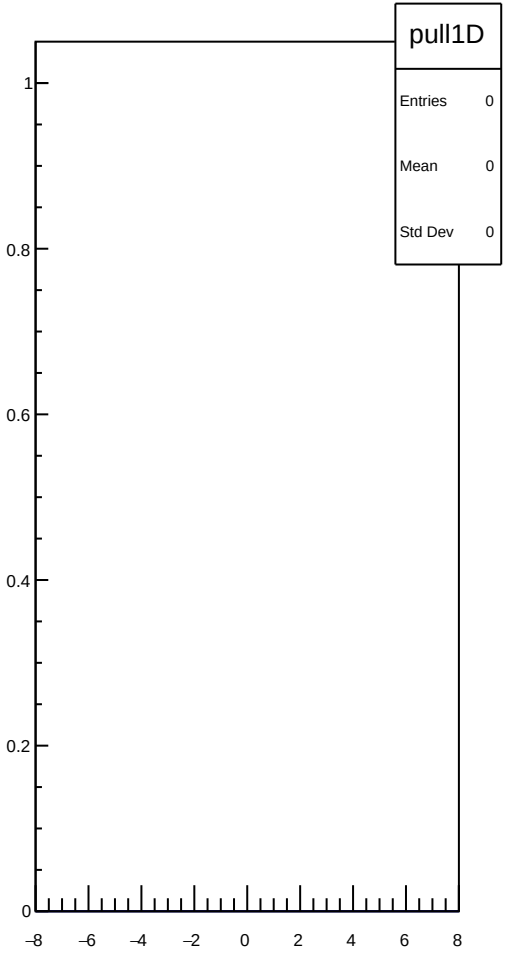

reg_asym_sam7_mean vs run
χ² / ndf 0 / 0
p0 −508.7 ± 594.2
200
0
−200
−400
−600
−800
−1000
−1200
5576. 0

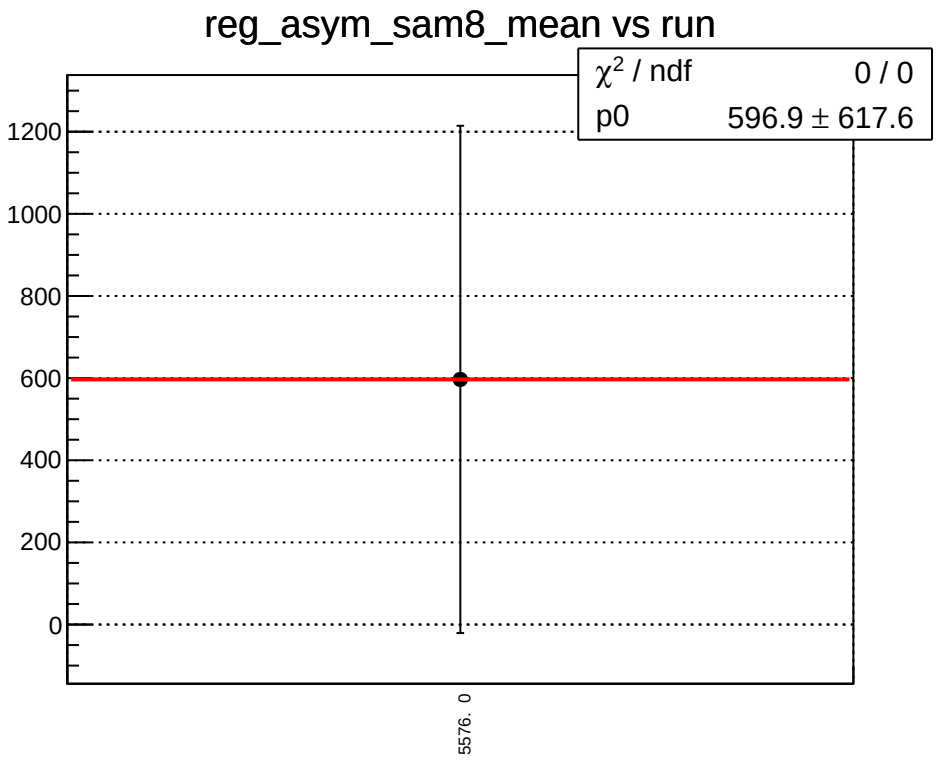

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

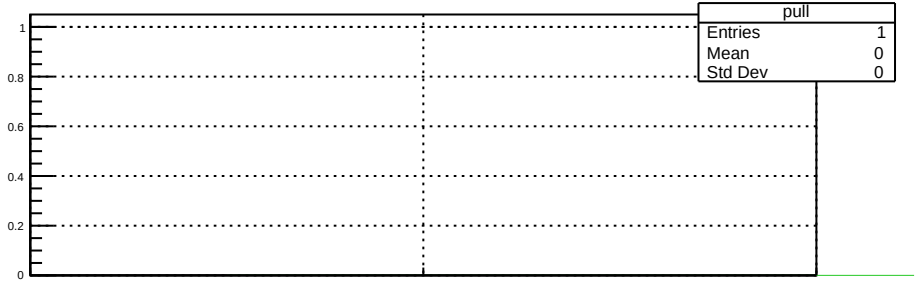

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

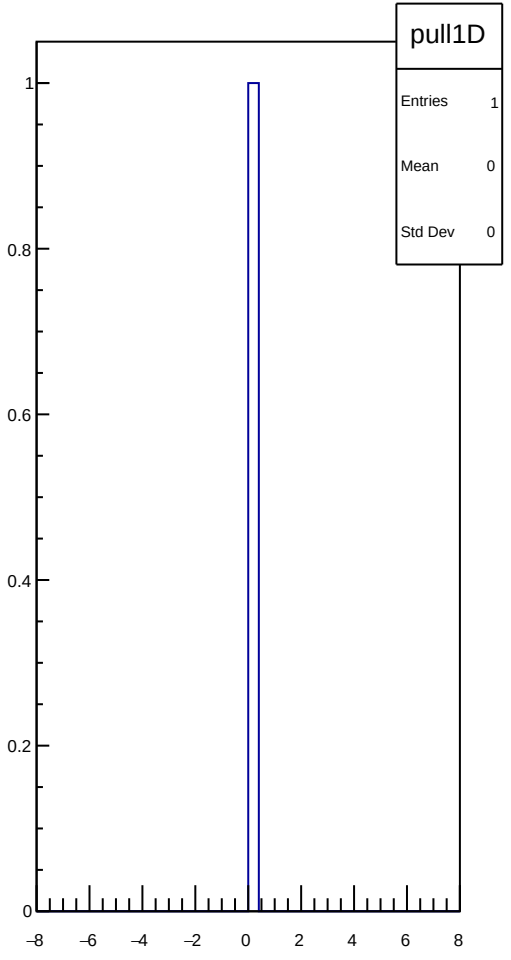

reg_asym_sam7_rms vs run
χ² / ndf 2.86e−28 / 0
p0 57.99 ± 0.4201
58.4
58.2
58
57.8
57.6
5576. 0

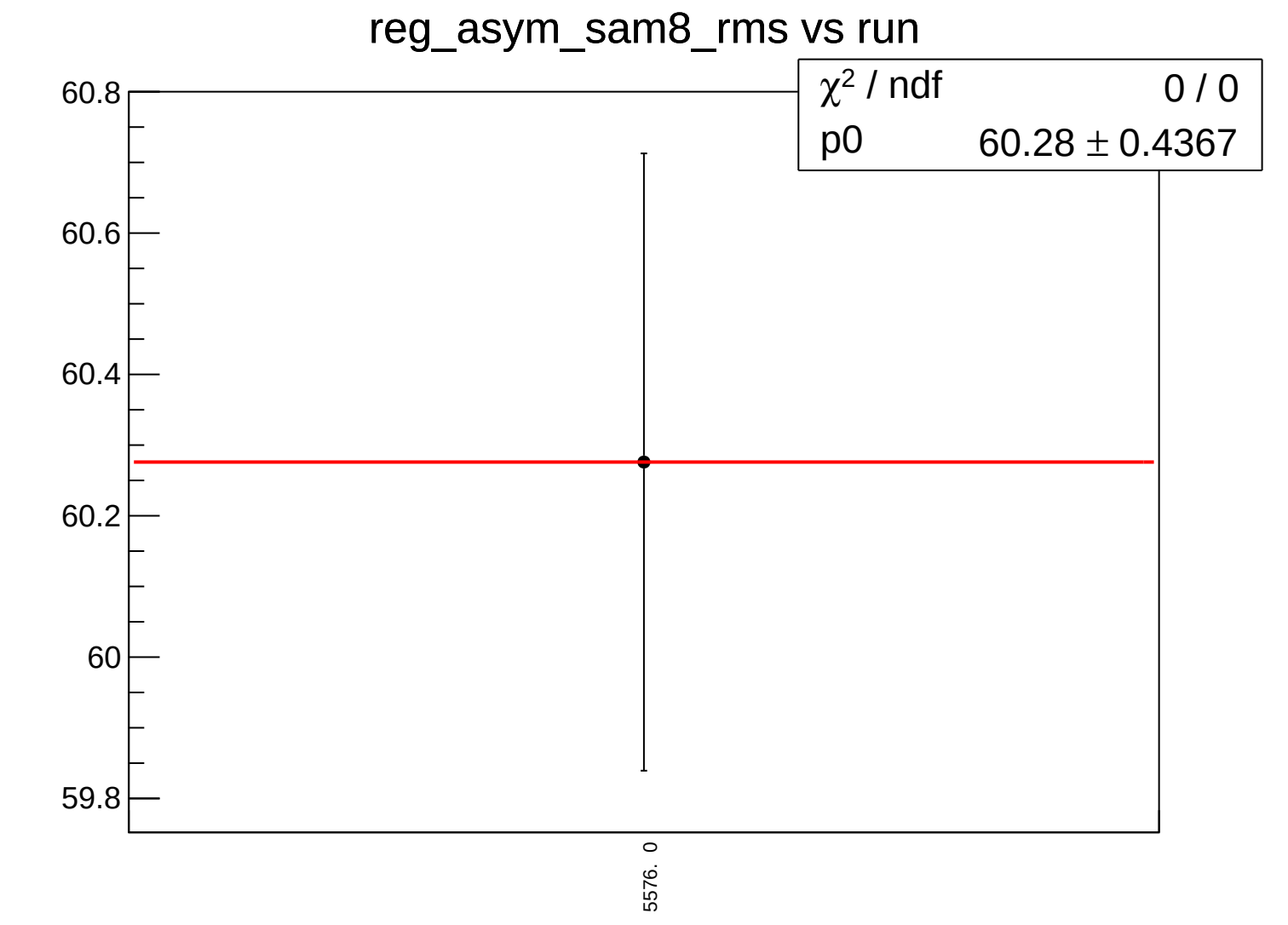

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

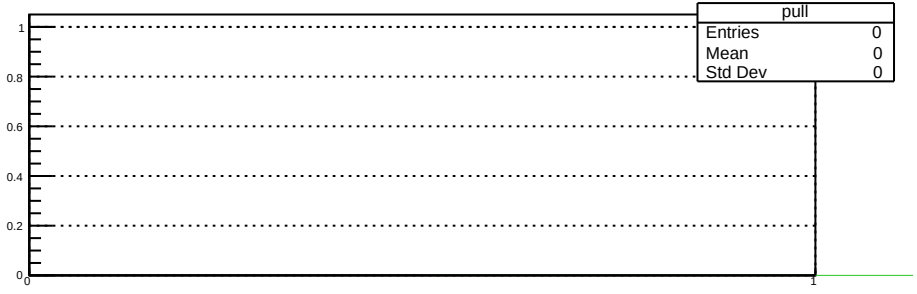

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

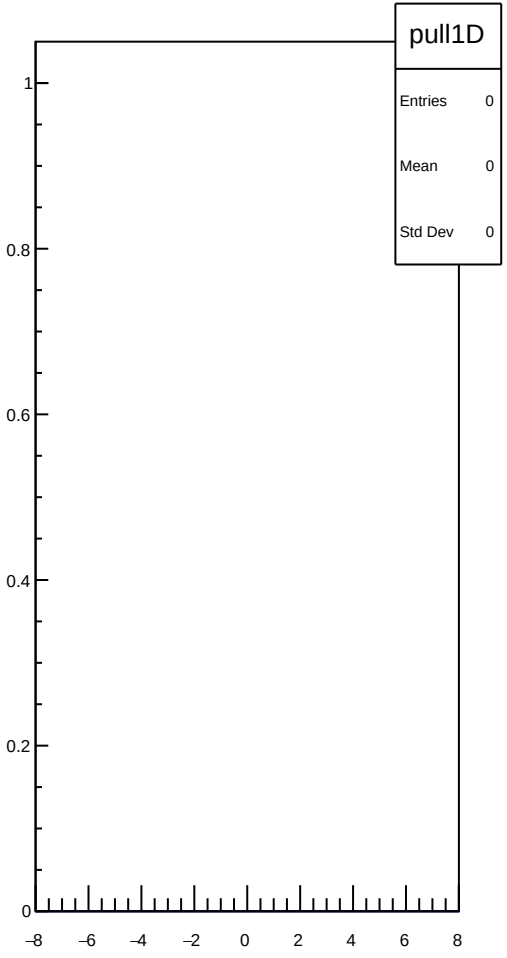

reg_asym_sam8_mean vs run
χ² / ndf 0 / 0
p0 596.9 ± 617.6
1200
1000
800
600
400
200
0
5576. 0

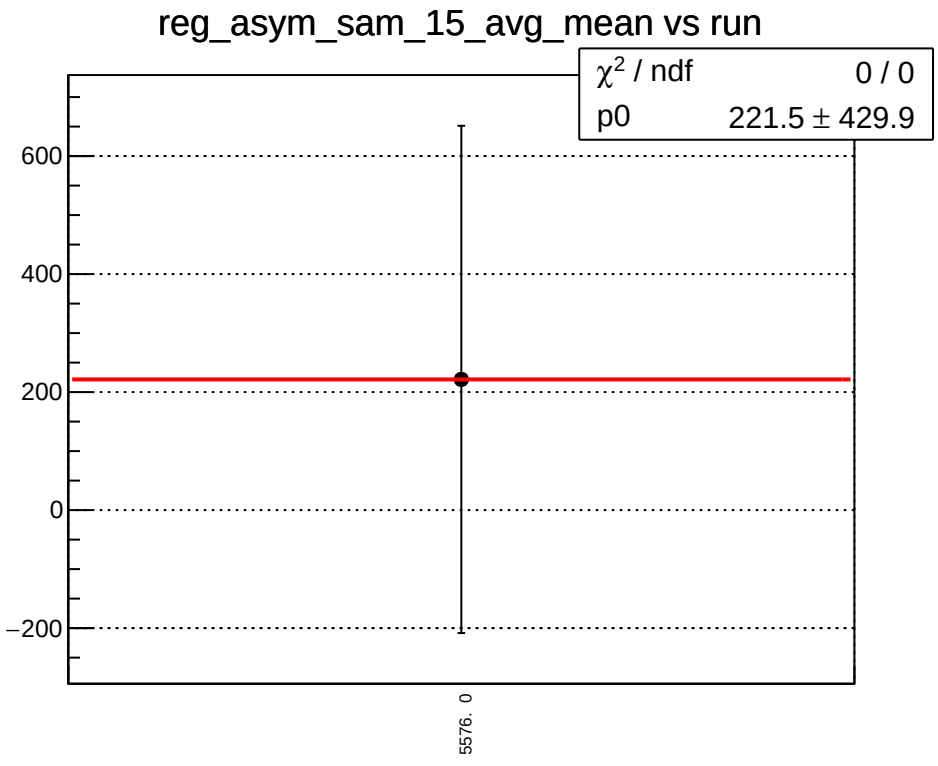

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

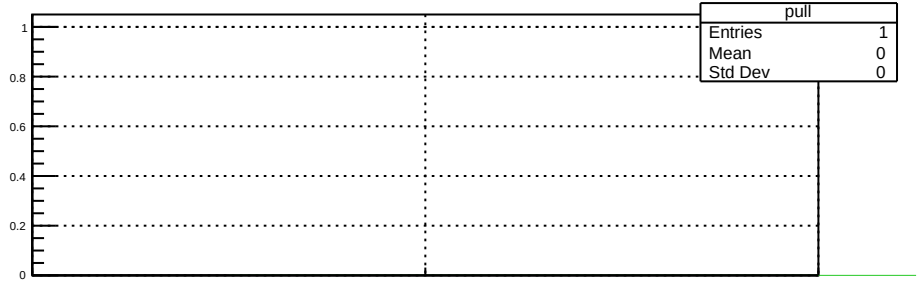

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

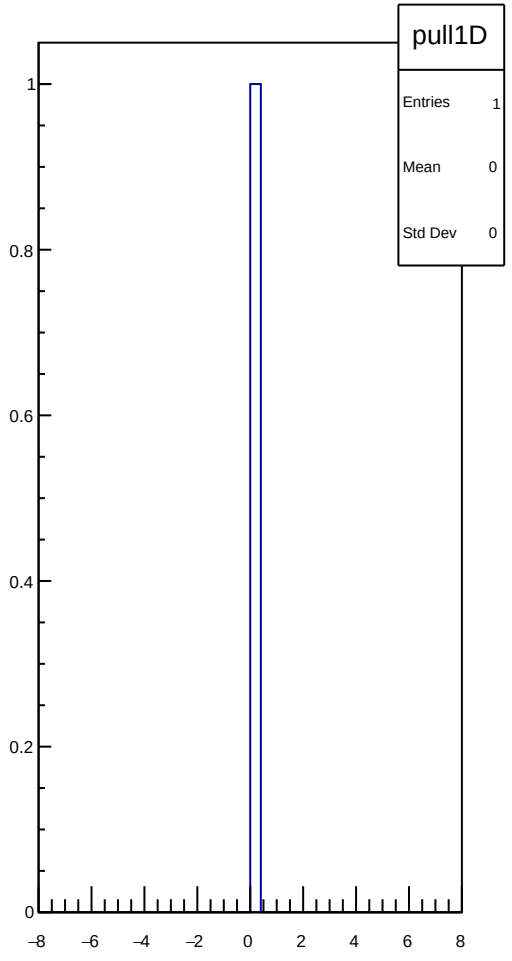

reg_asym_sam8_rms vs run
χ² / ndf 0 / 0
p0 60.28 ± 0.4367
60.8
60.6
60.4
60.2
60
59.8
5576. 0

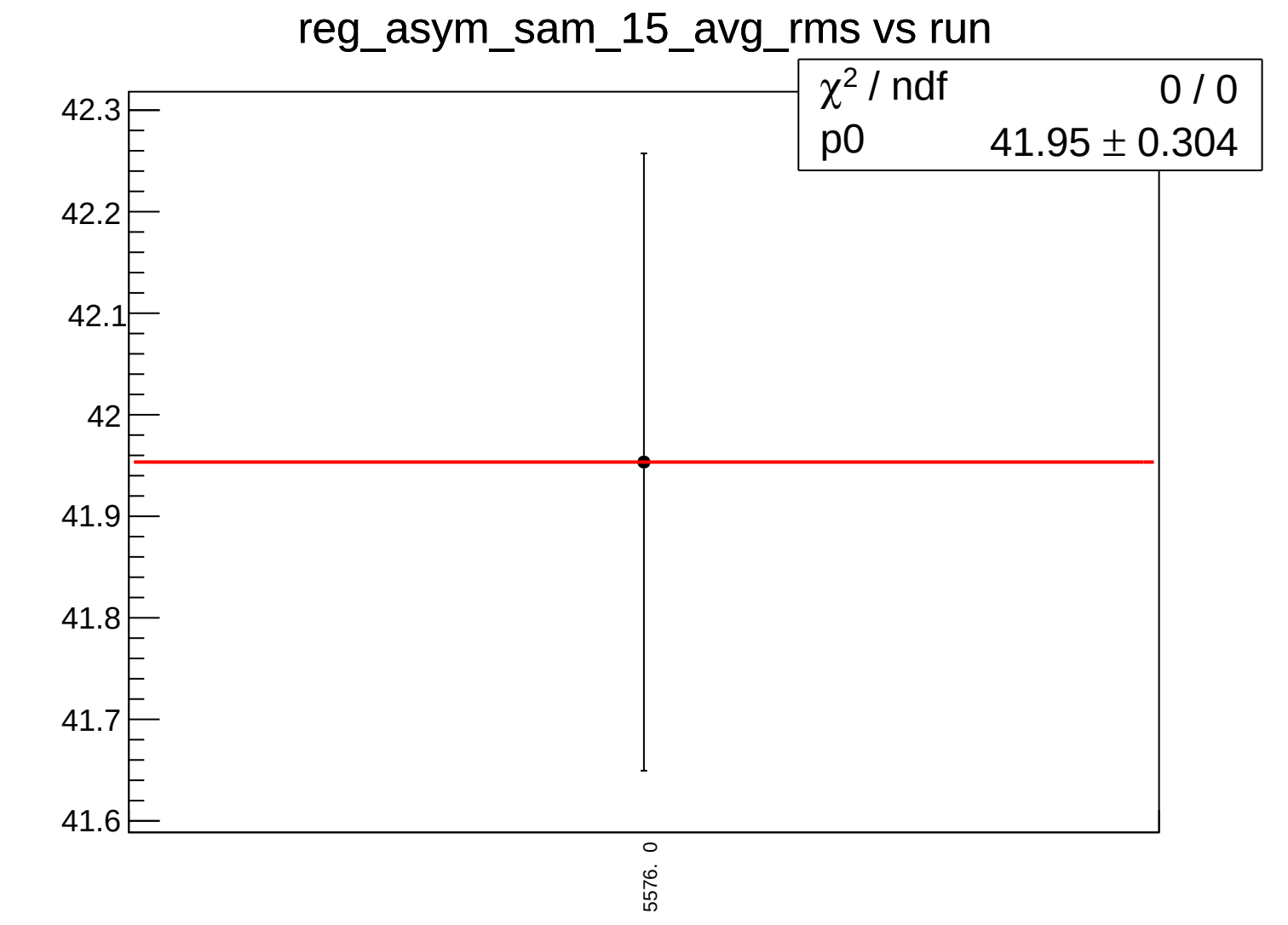

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

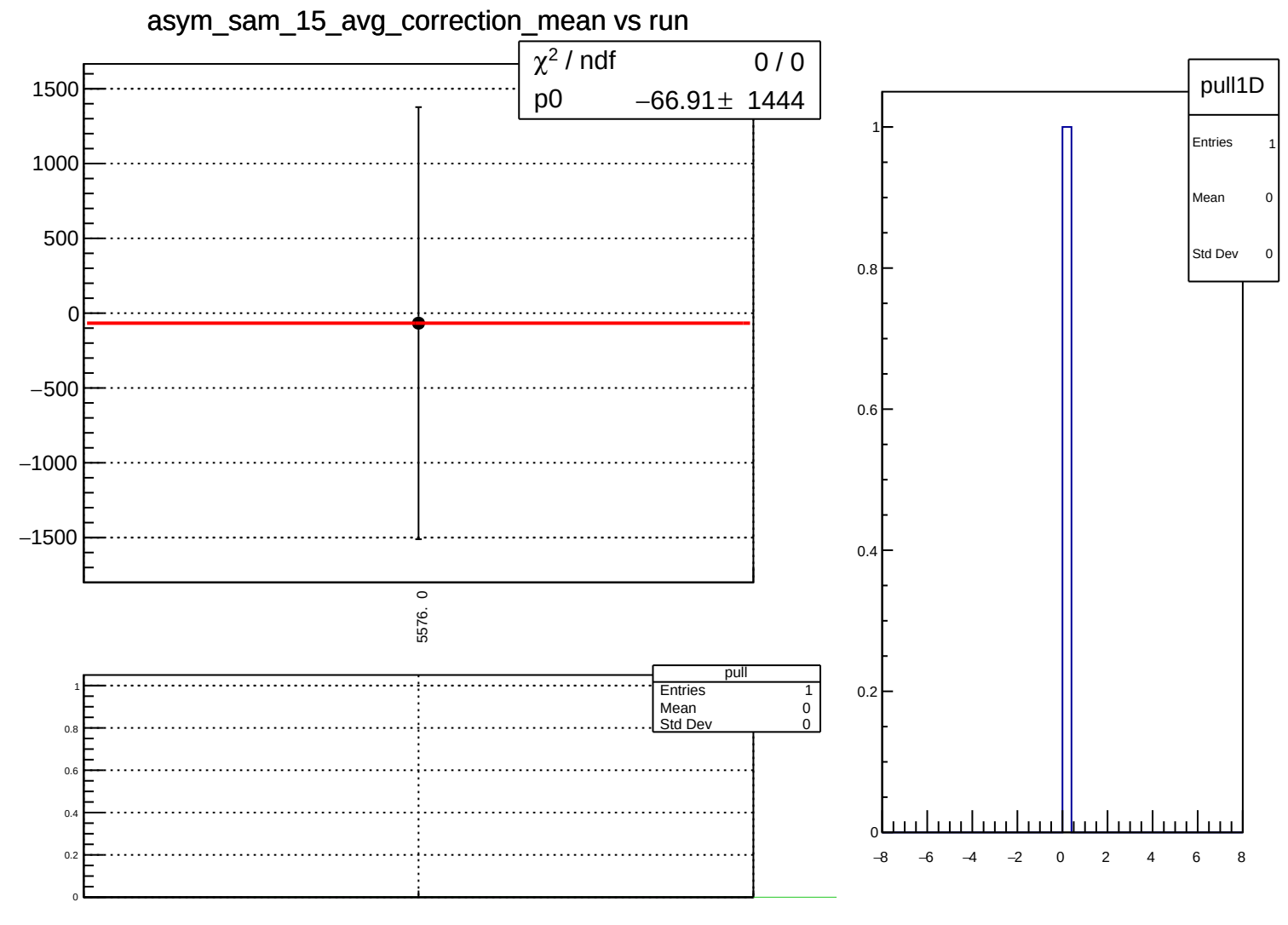

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

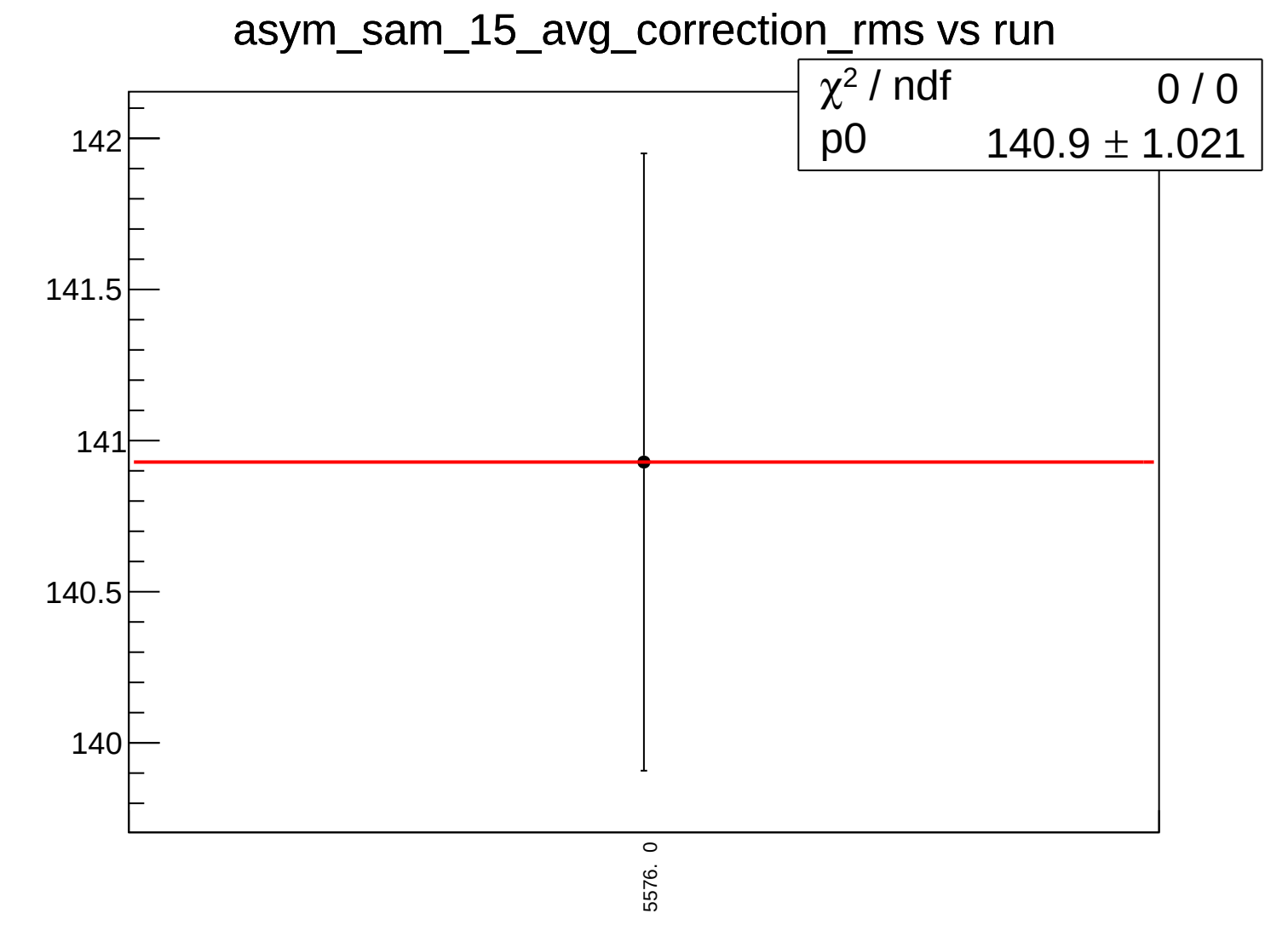

reg_asym_sam_15_avg_mean vs run
χ² / ndf 0 / 0
p0 221.5 ± 429.9
600
400
200
0
−200
5576. 0

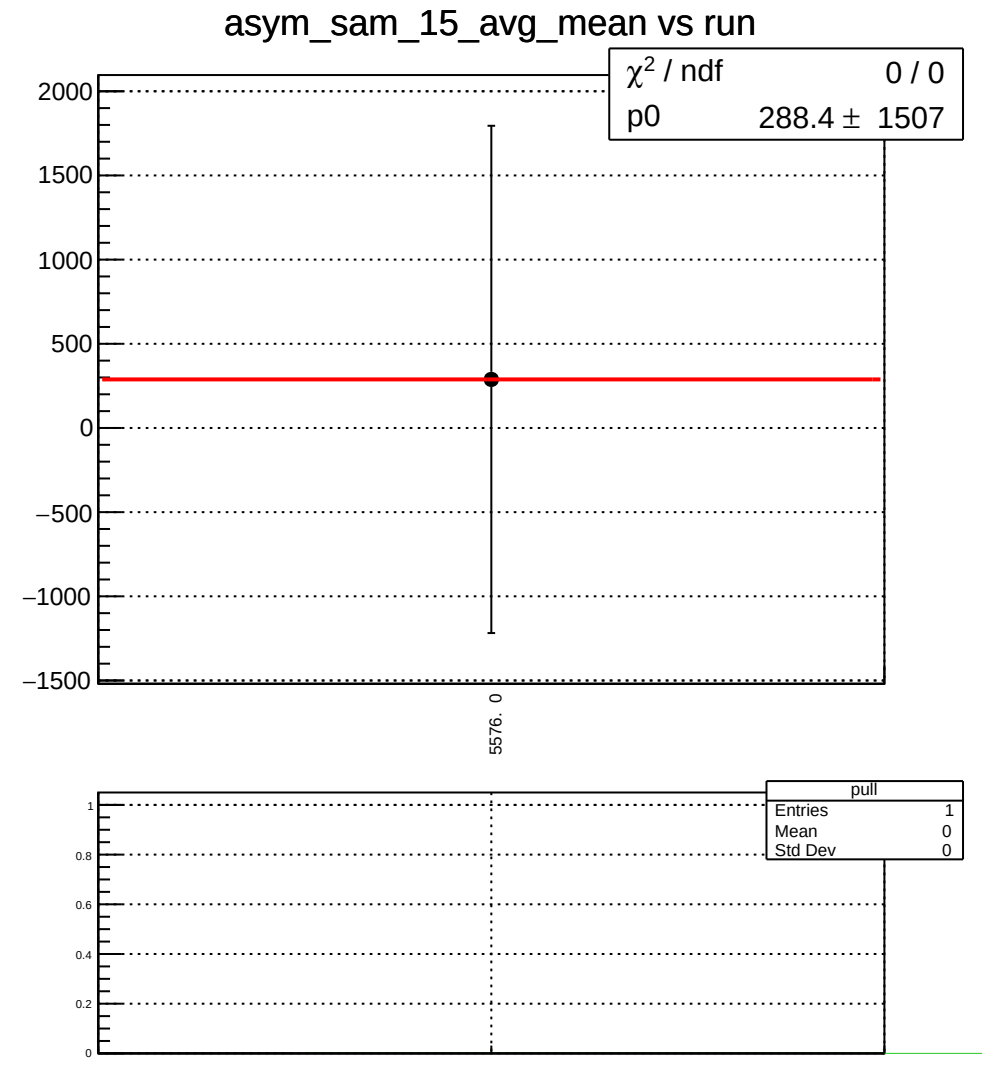

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

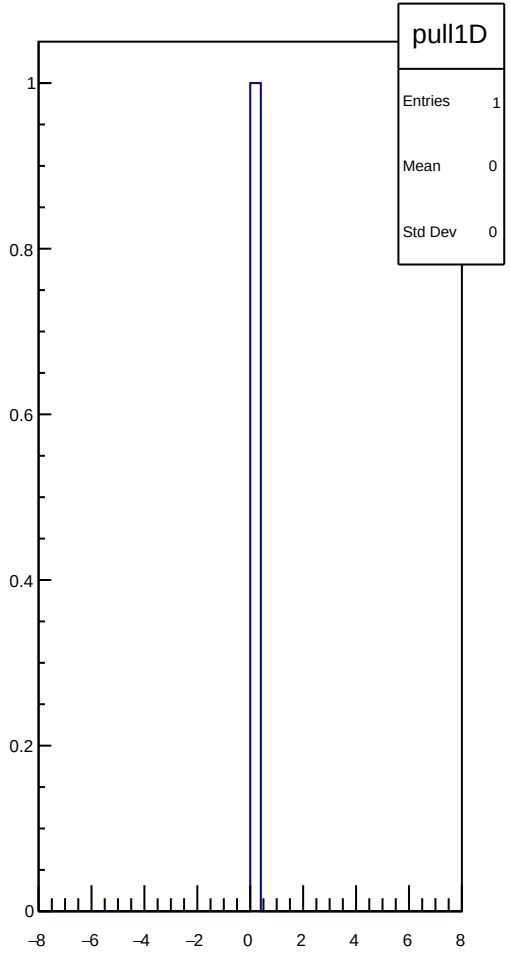

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

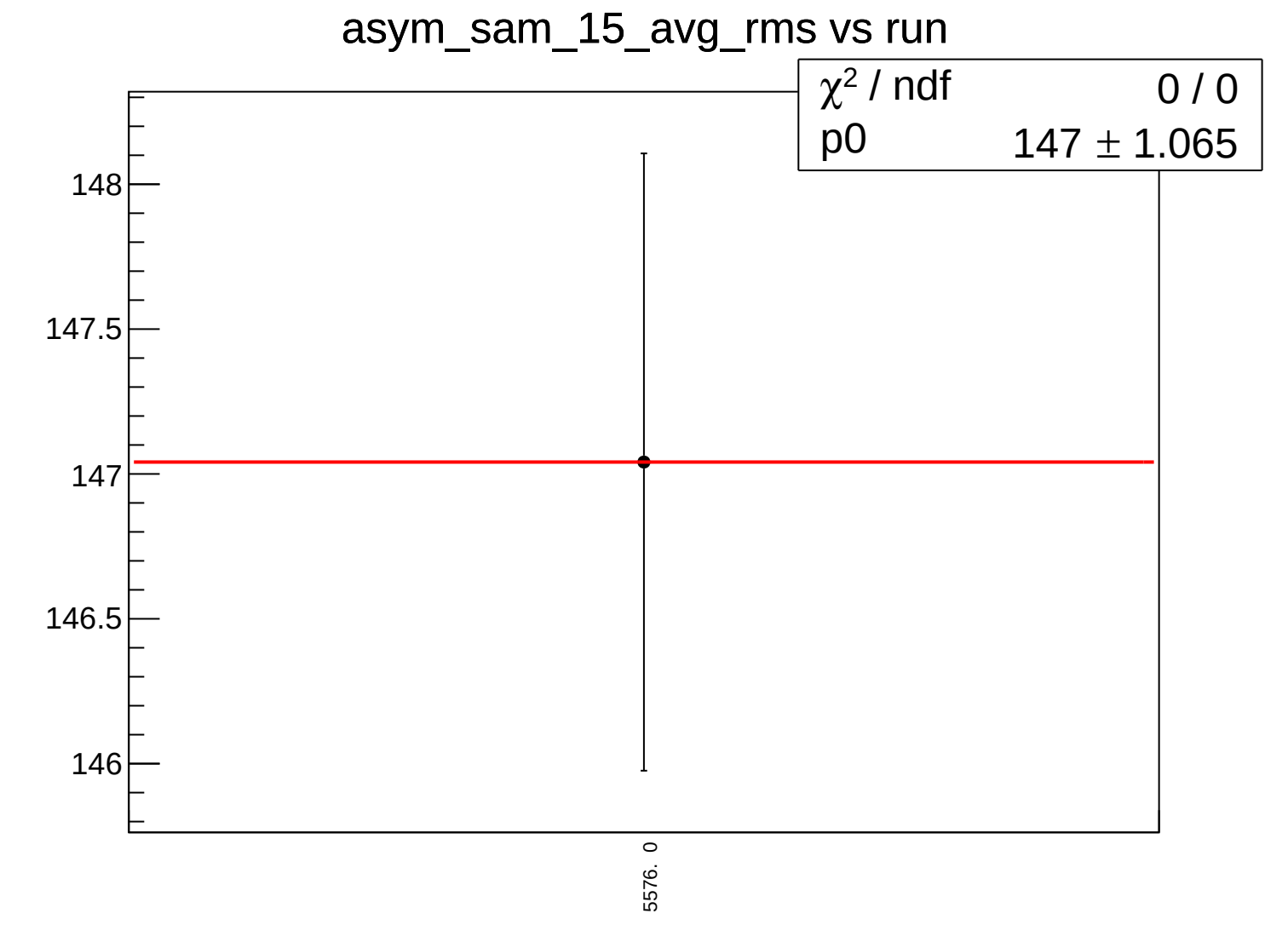

reg_asym_sam_15_avg_rms vs run
χ² / ndf 0 / 0
p0 41.95 ± 0.304
42.3
42.2
42.1
42
41.9
41.8
41.7
41.6
5576. 0

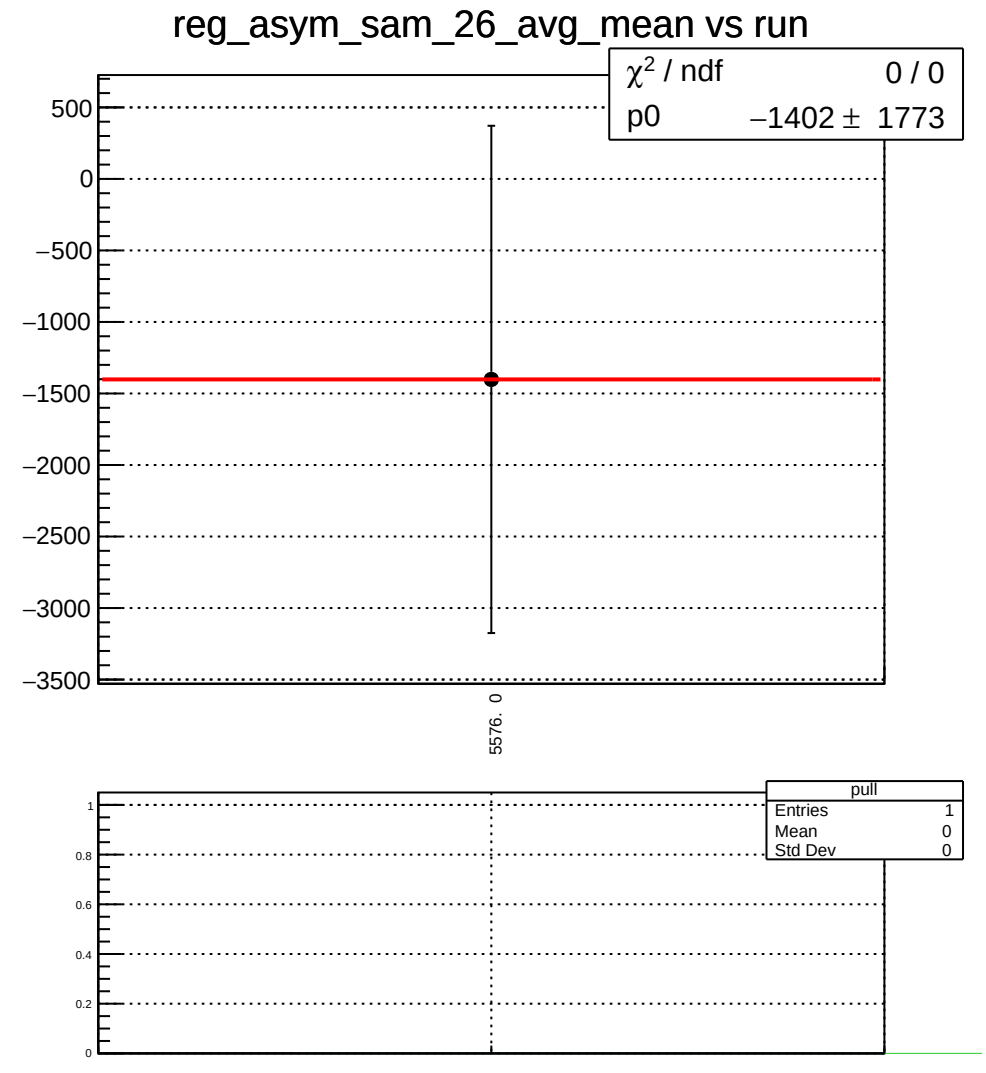

asym_sam_15_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −66.91± 1444
1500
1000
500
0
−500
−1000
−1500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

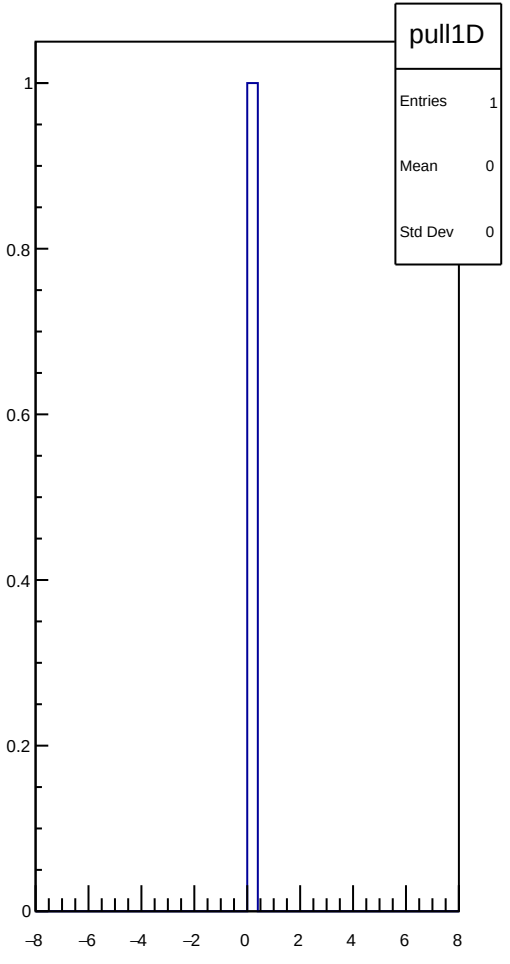

asym_sam_15_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 140.9 ± 1.021
142
141.5
141
140.5
140
5576. 0


asym_sam_15_avg_mean vs run
χ² / ndf 0 / 0
p0 288.4 ± 1507
2000
1500
1000
500
0
−500
−1000
−1500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_sam_15_avg_rms vs run
χ² / ndf 0 / 0
p0 147 ± 1.065
148
147.5
147
146.5
146
5576. 0


reg_asym_sam_26_avg_mean vs run
χ² / ndf 0 / 0
p0 −1402 ± 1773
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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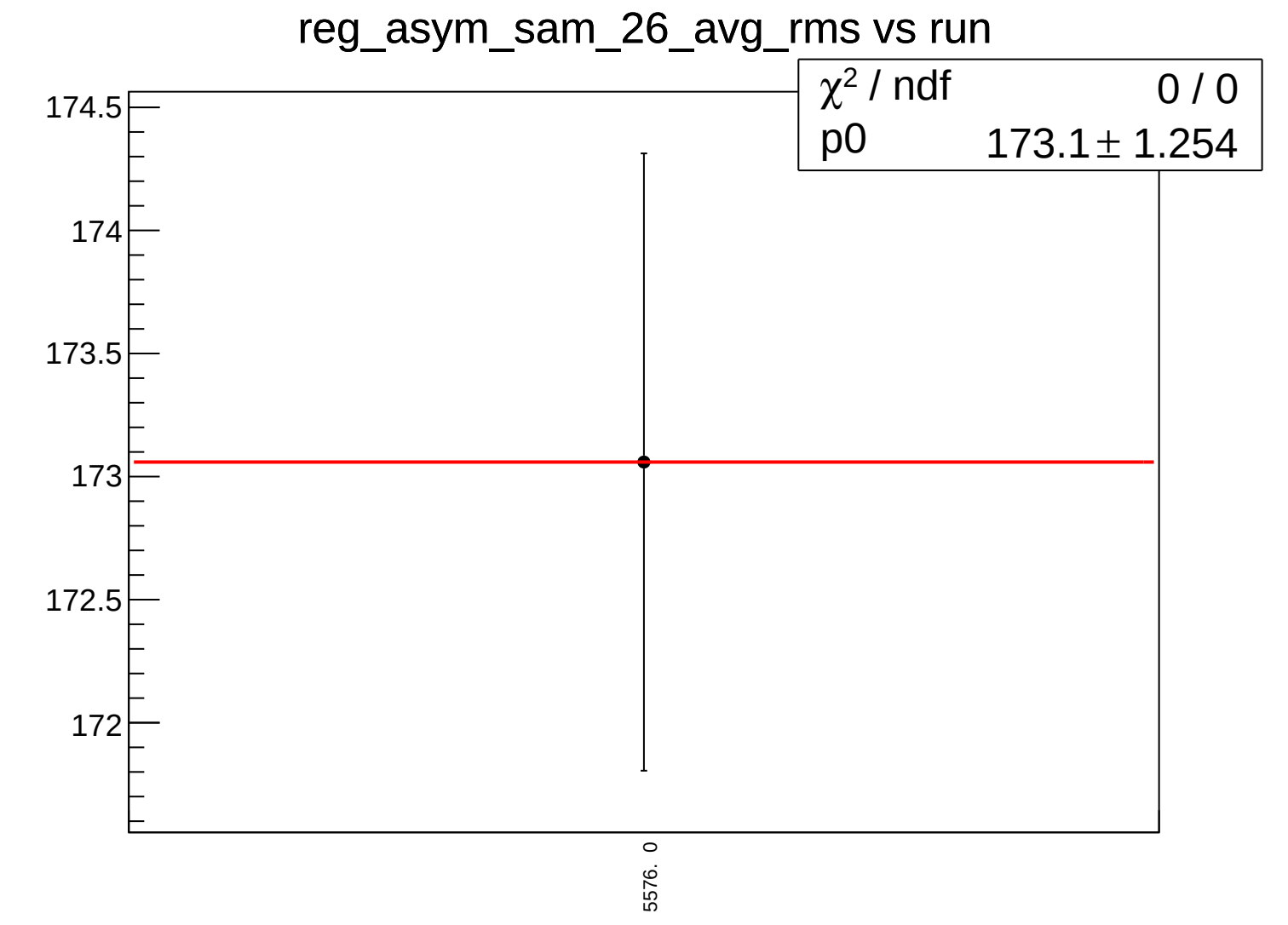
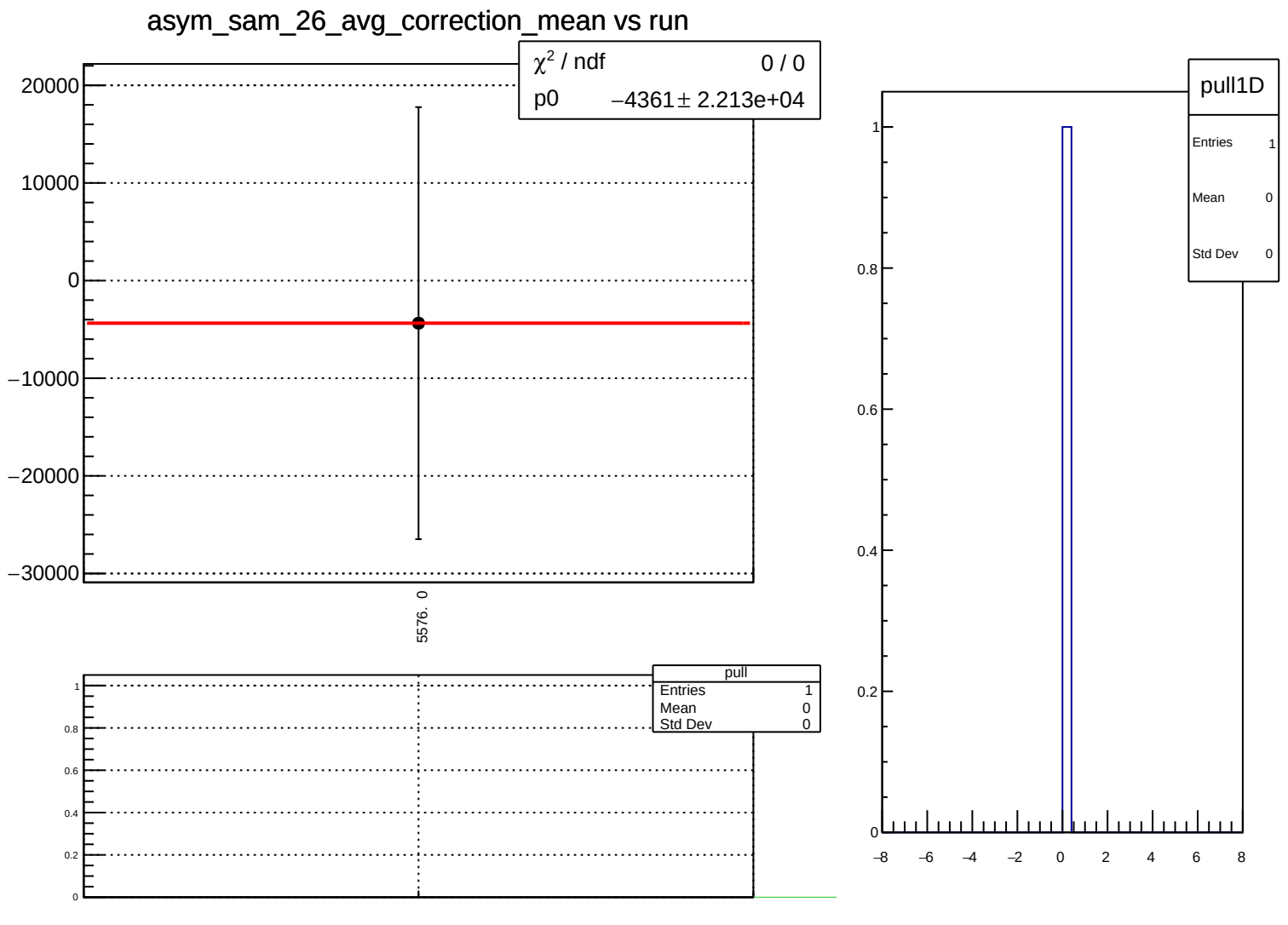
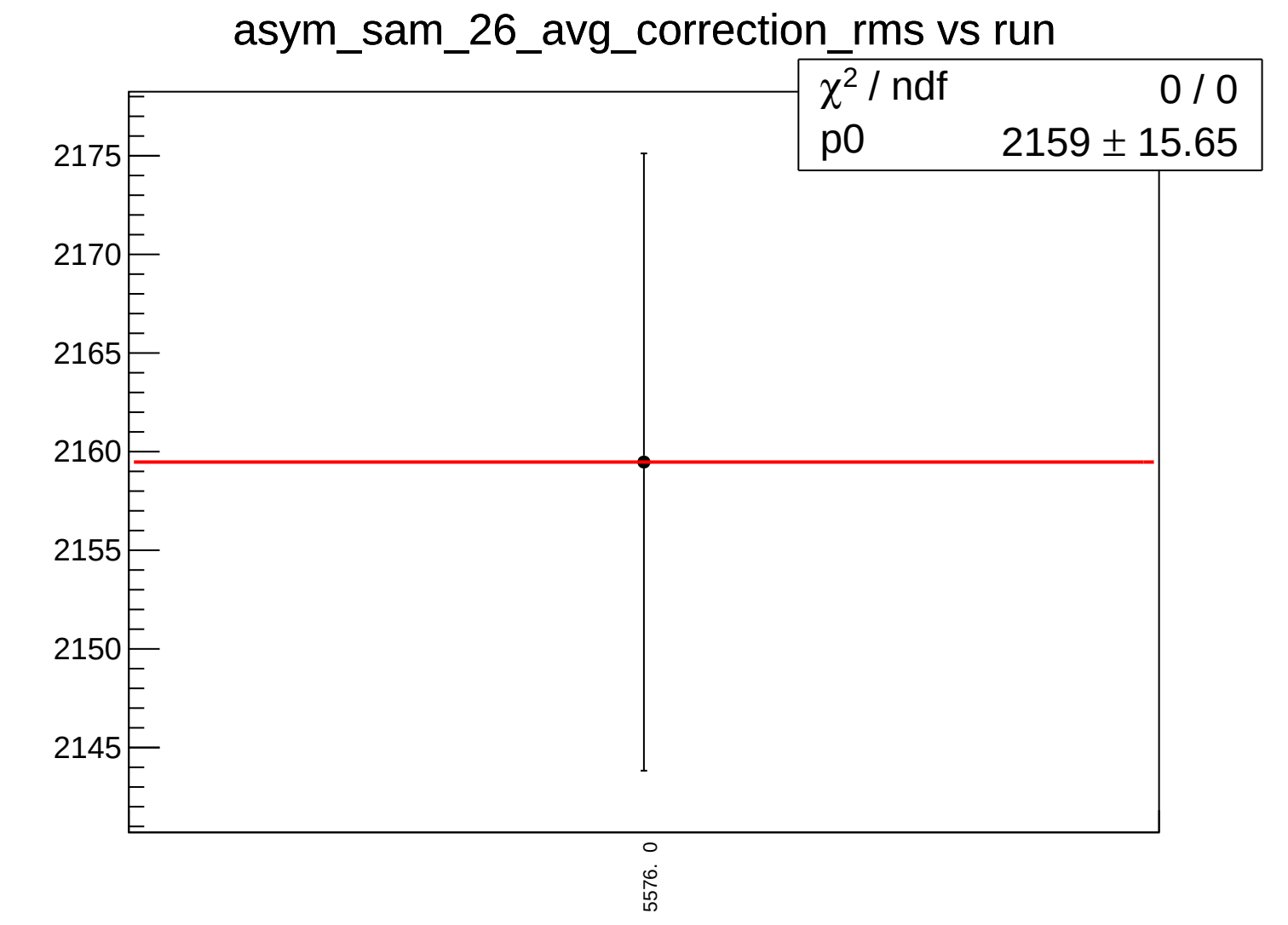
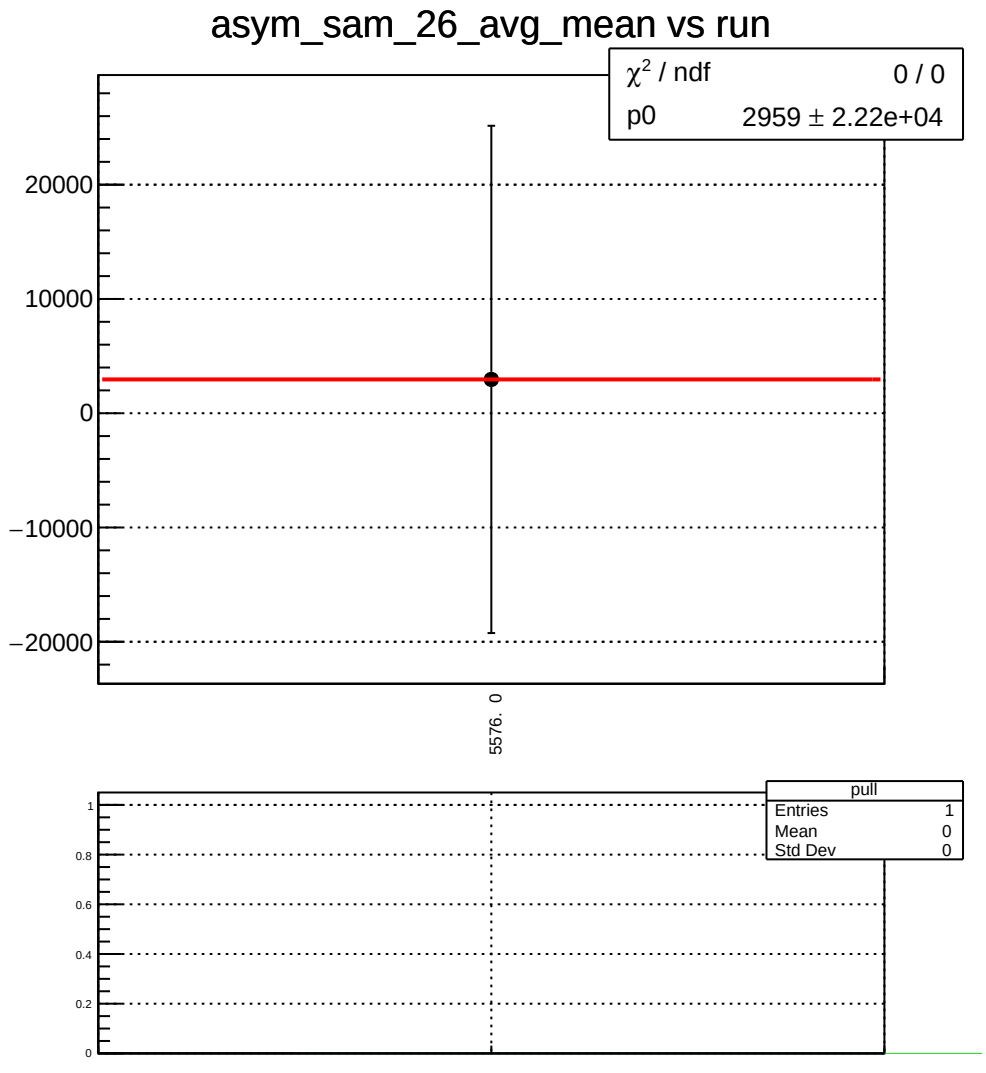
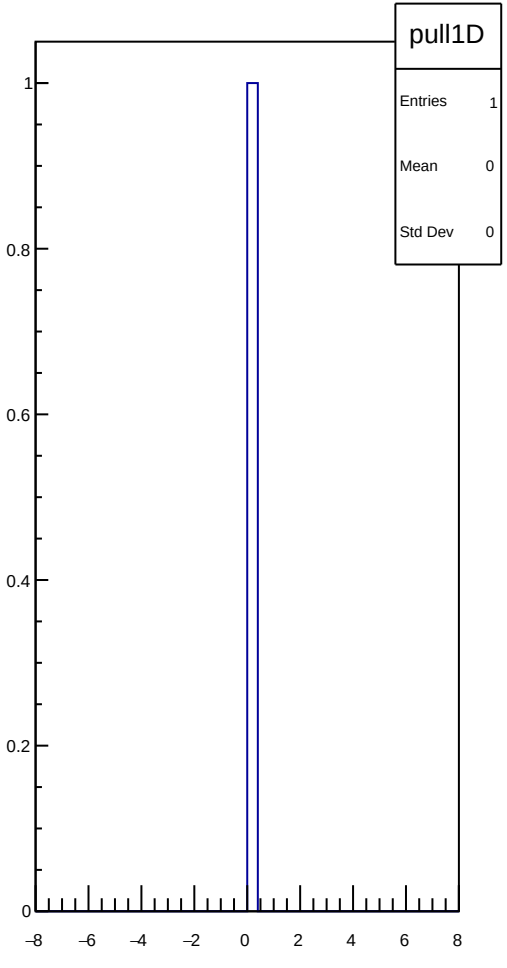
0
2
4
6
8


reg_asym_sam_26_avg_rms vs run
χ² / ndf 0 / 0
p0 173.1 ± 1.254
174.5
174
173.5
173
172.5
172
5576. 0


asym_sam_26_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −4361 ± 2.213e+04
20000
10000
0
−10000
−20000
−30000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 2159 ± 15.65
2175
2170
2165
2160
2155
2150
2145
5576. 0


asym_sam_26_avg_mean vs run
χ² / ndf 0 / 0
p0 2959 ± 2.22e+04
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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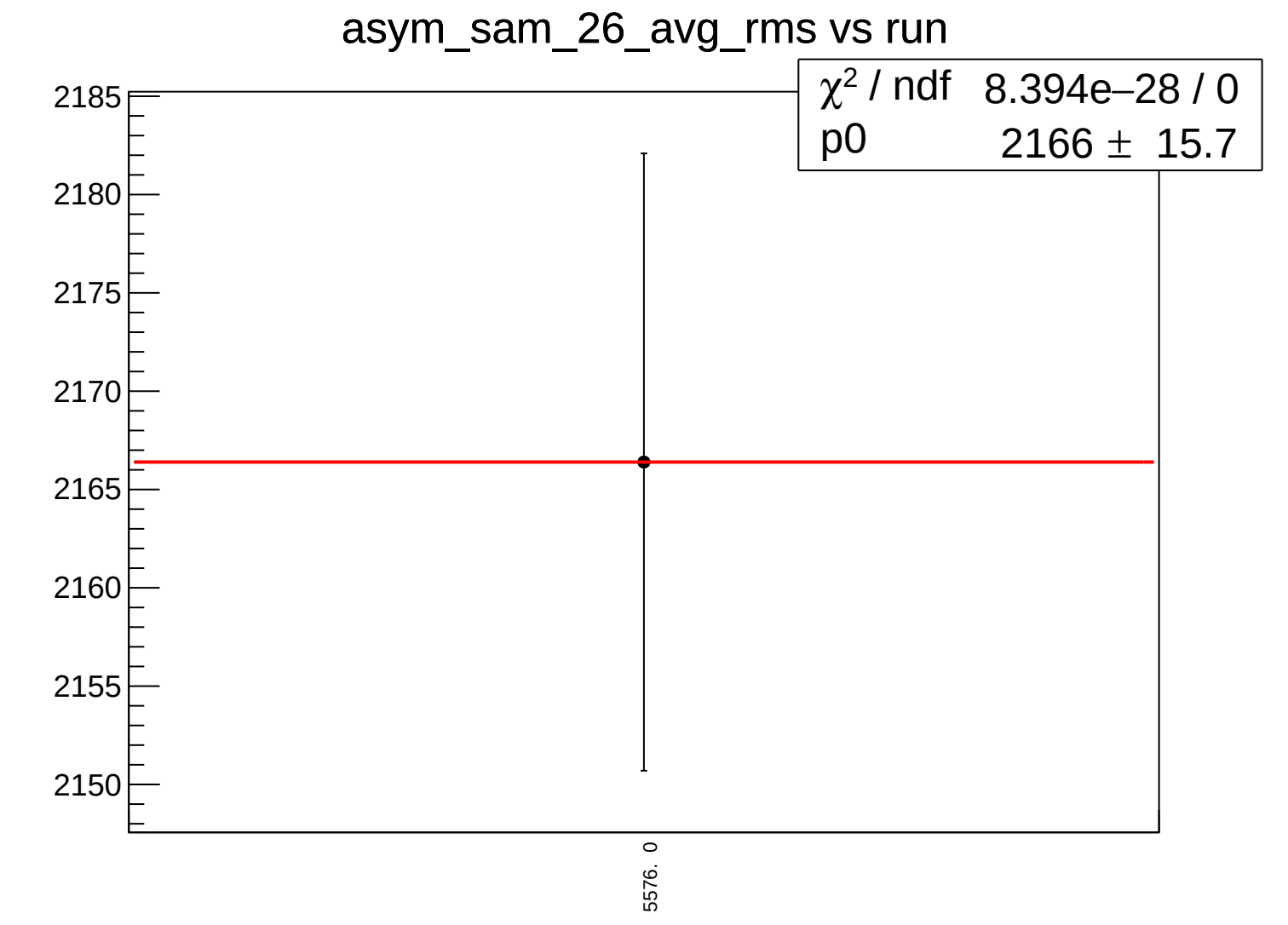
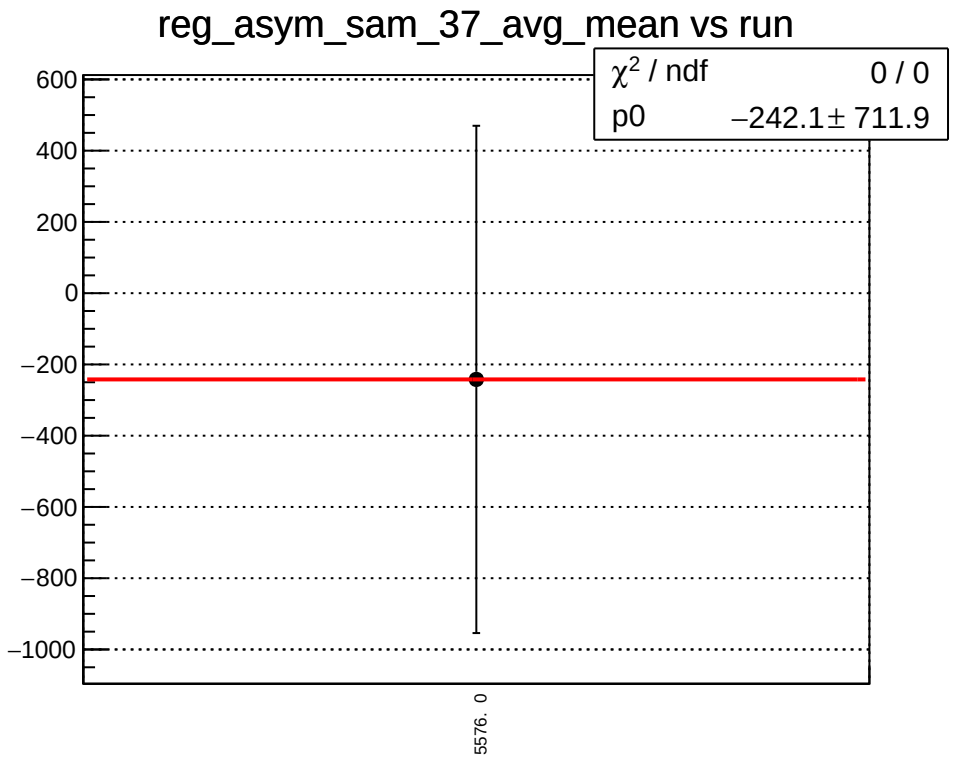
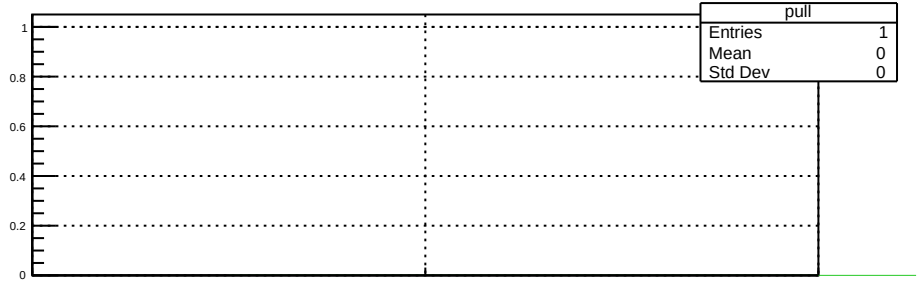
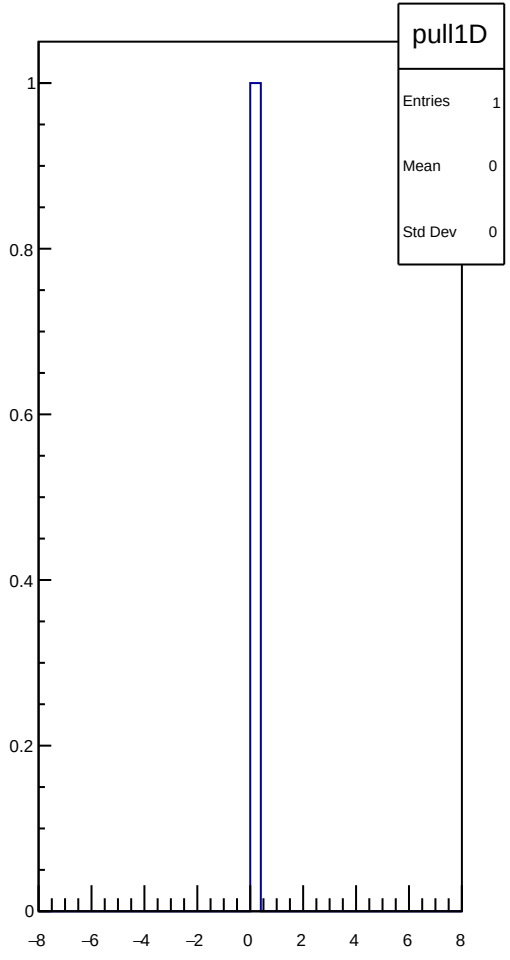
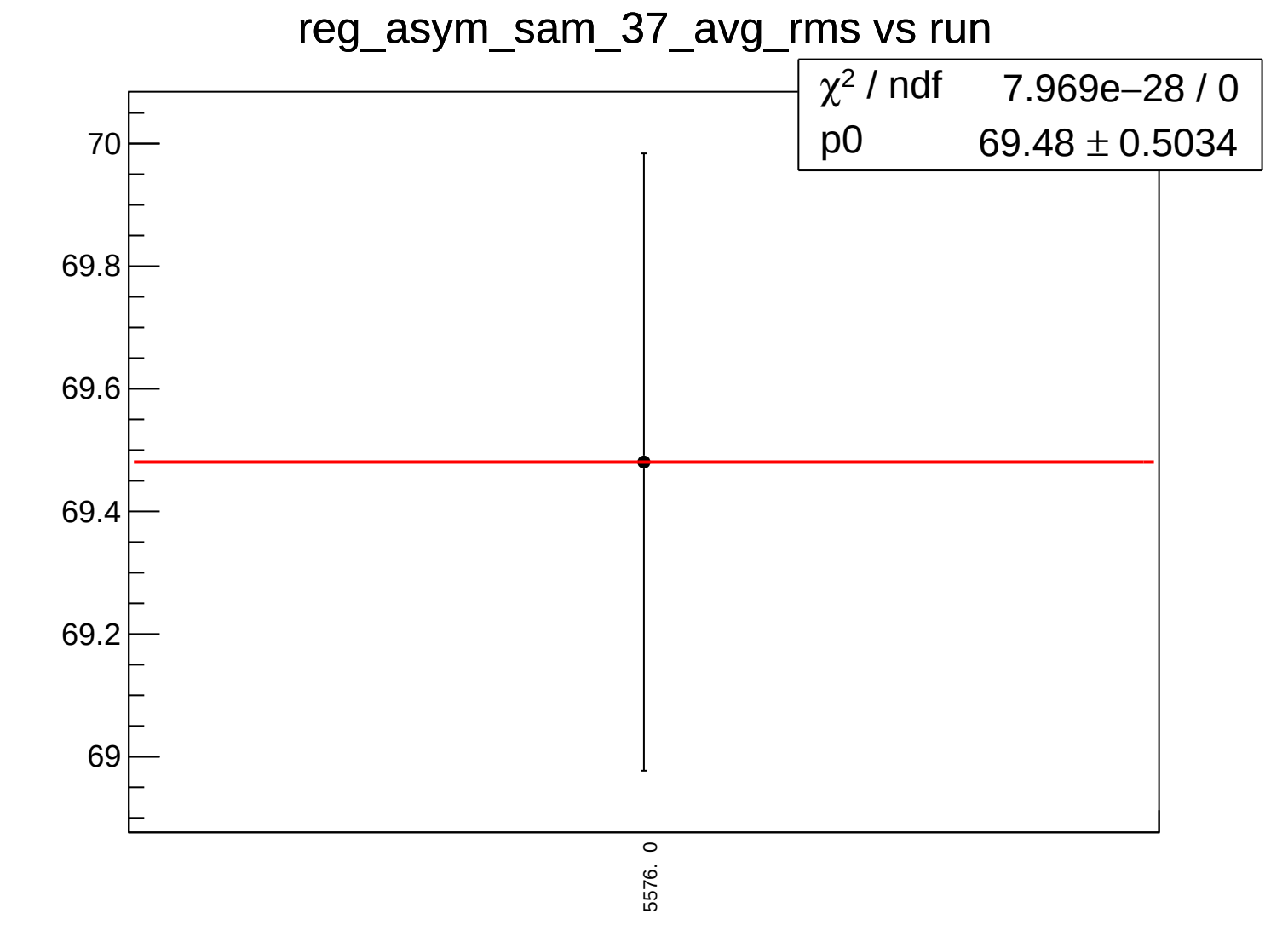
2
4
6
8

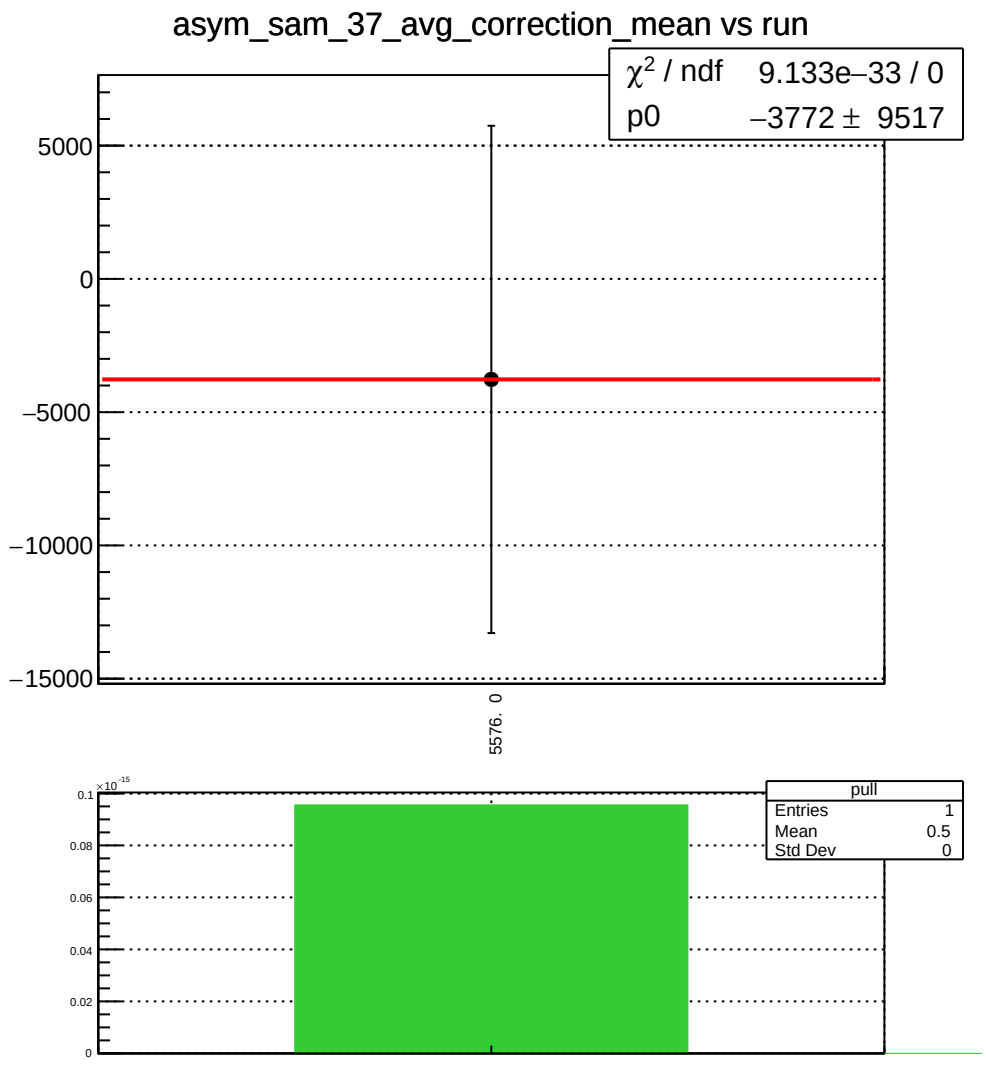

asym_sam_26_avg_rms vs run
χ² / ndf 8.394e–28 / 0
p0 2166 ± 15.7
2185
2180
2175
2170
2165
2160
2155
2150
5576. 0

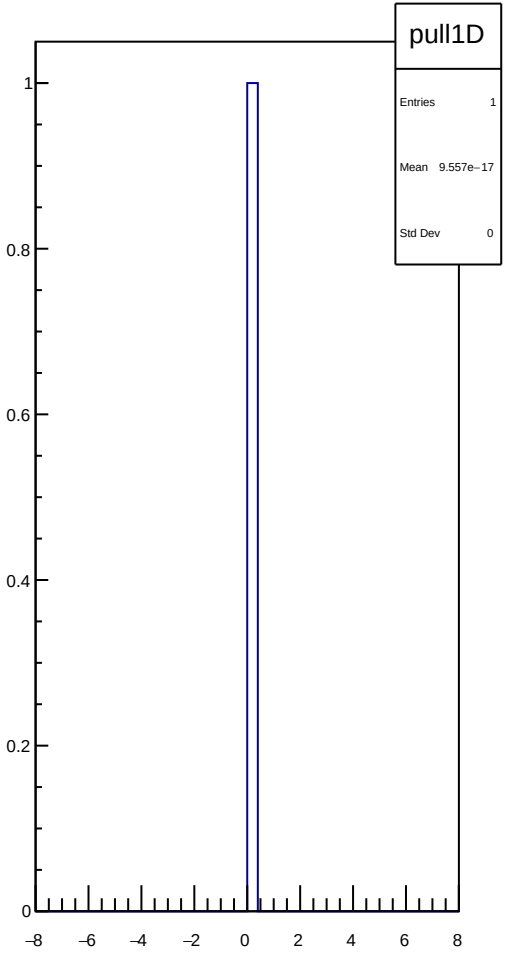

reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 0 / 0
p0 −242.1± 711.9
600
400
200
0
−200
−400
−600
−800
−1000
5576. 0


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


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


reg_asym_sam_37_avg_rms vs run
χ² / ndf 7.969e−28 / 0
p0 69.48 ± 0.5034
70
69.8
69.6
69.4
69.2
69
5576. 0


asym_sam_37_avg_correction_mean vs run
χ² / ndf 9.133e−33 / 0
p0 −3772 ± 9517
5000
0
−5000
−10000
−15000
5576. 0
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 9.557e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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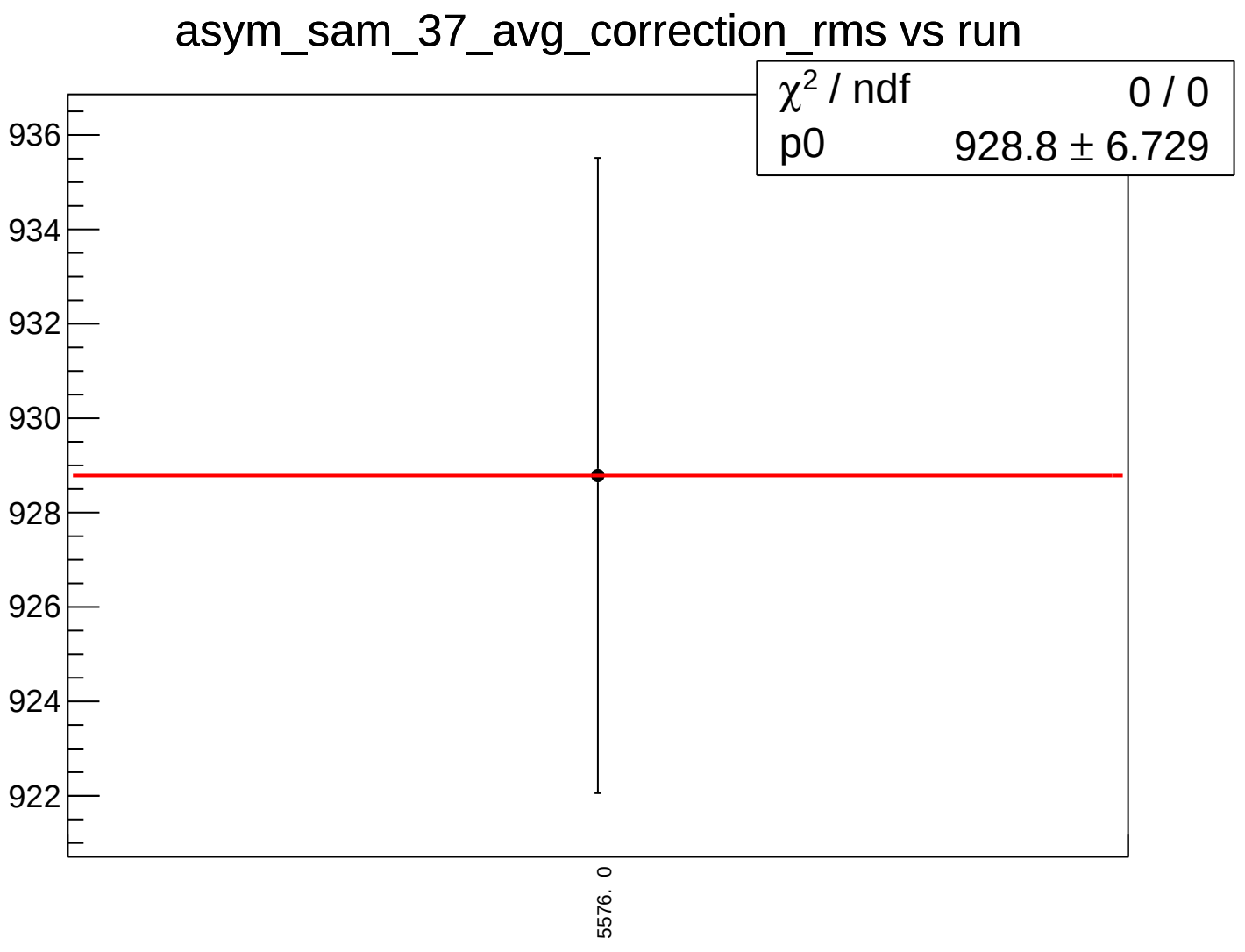
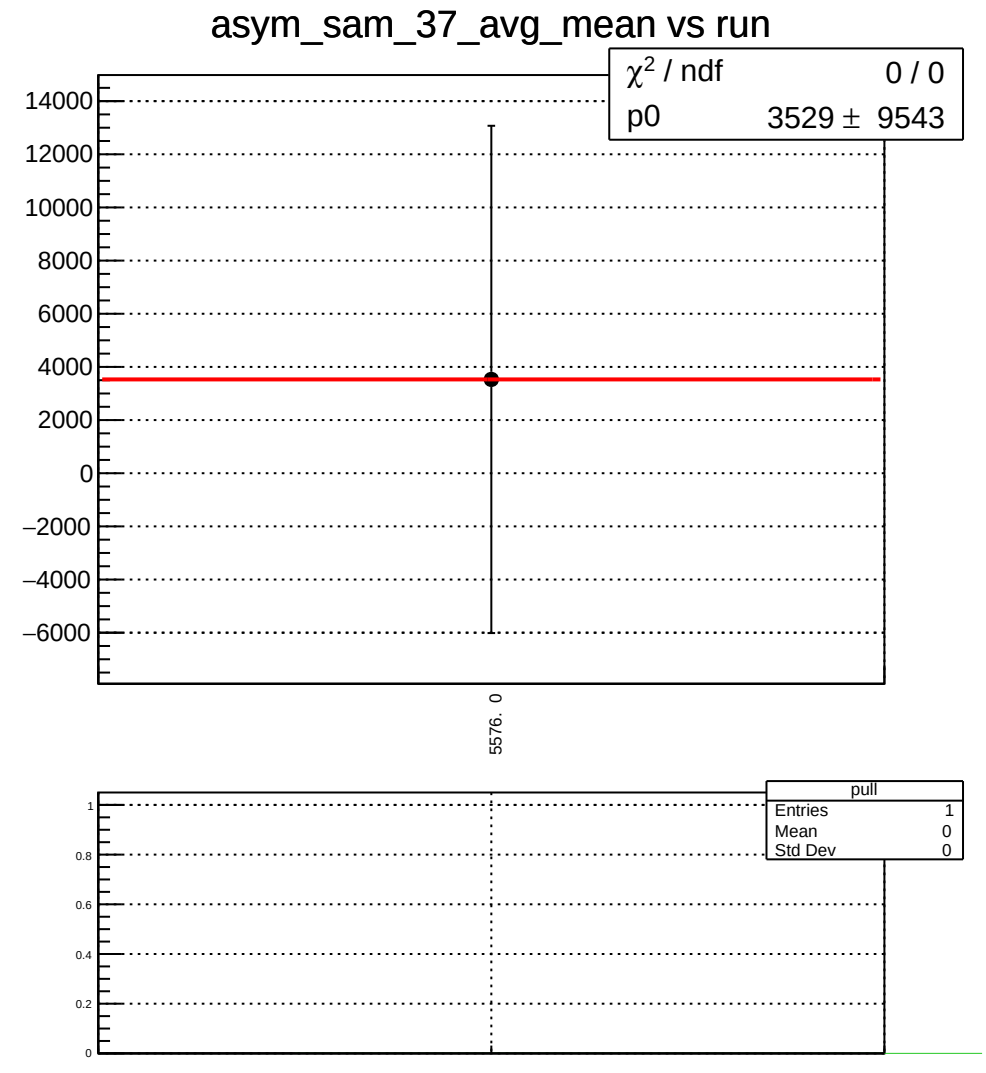
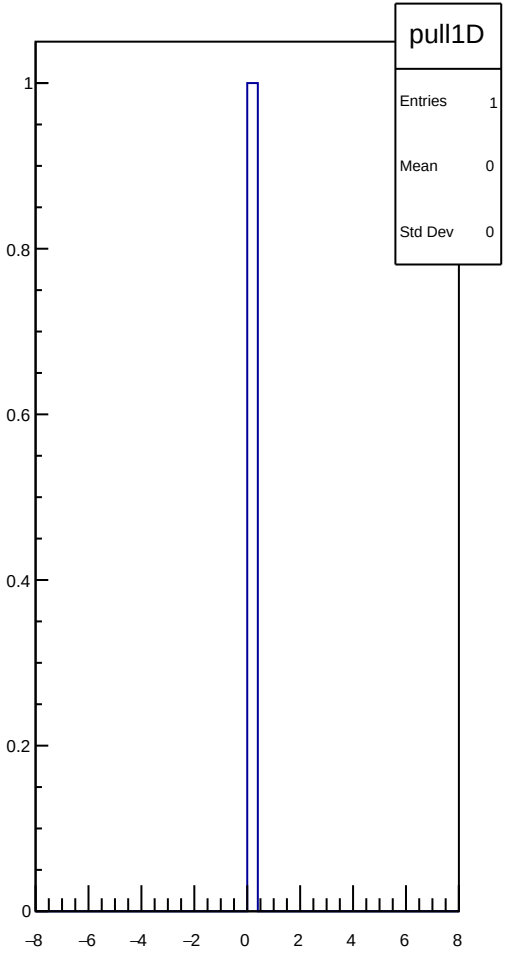
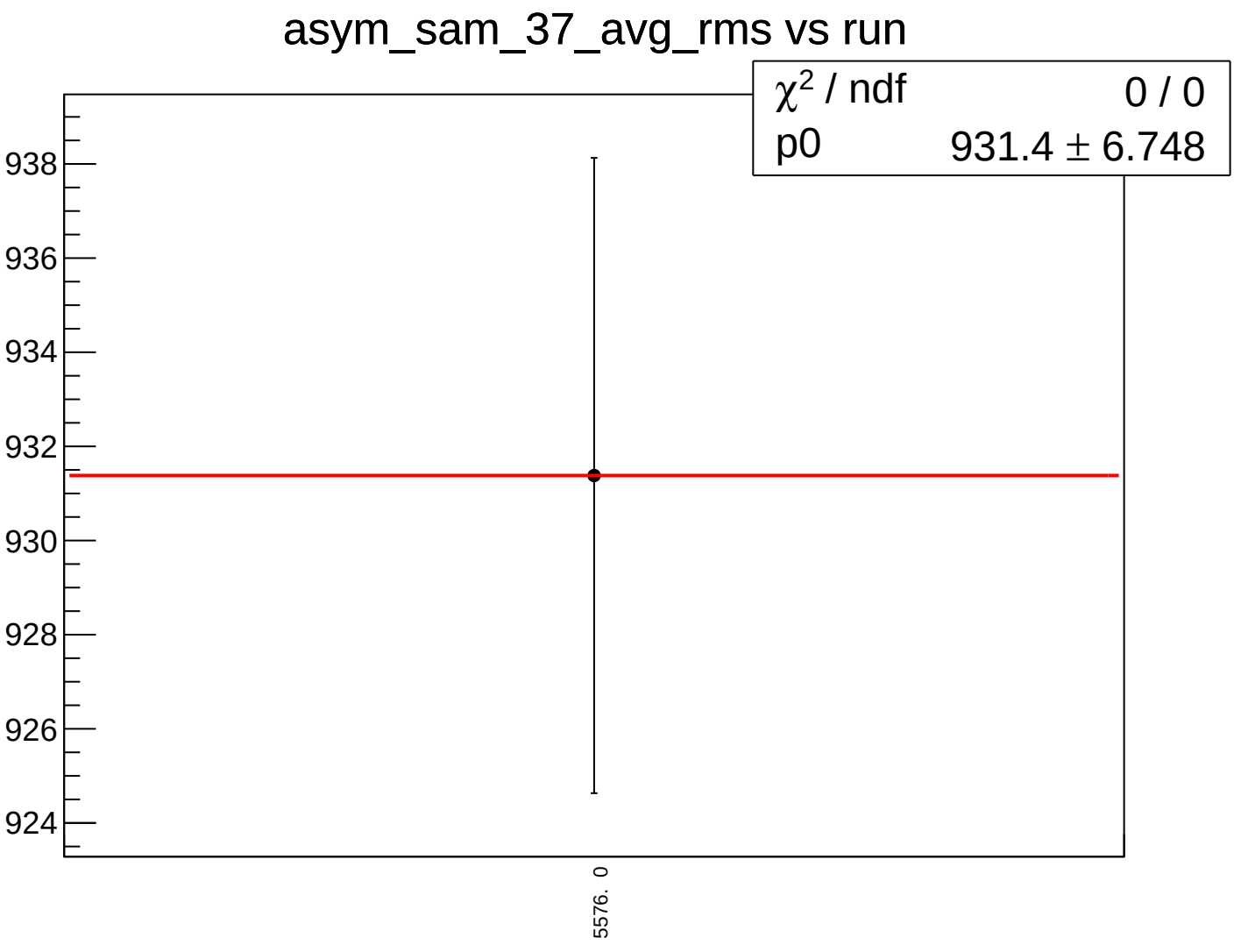
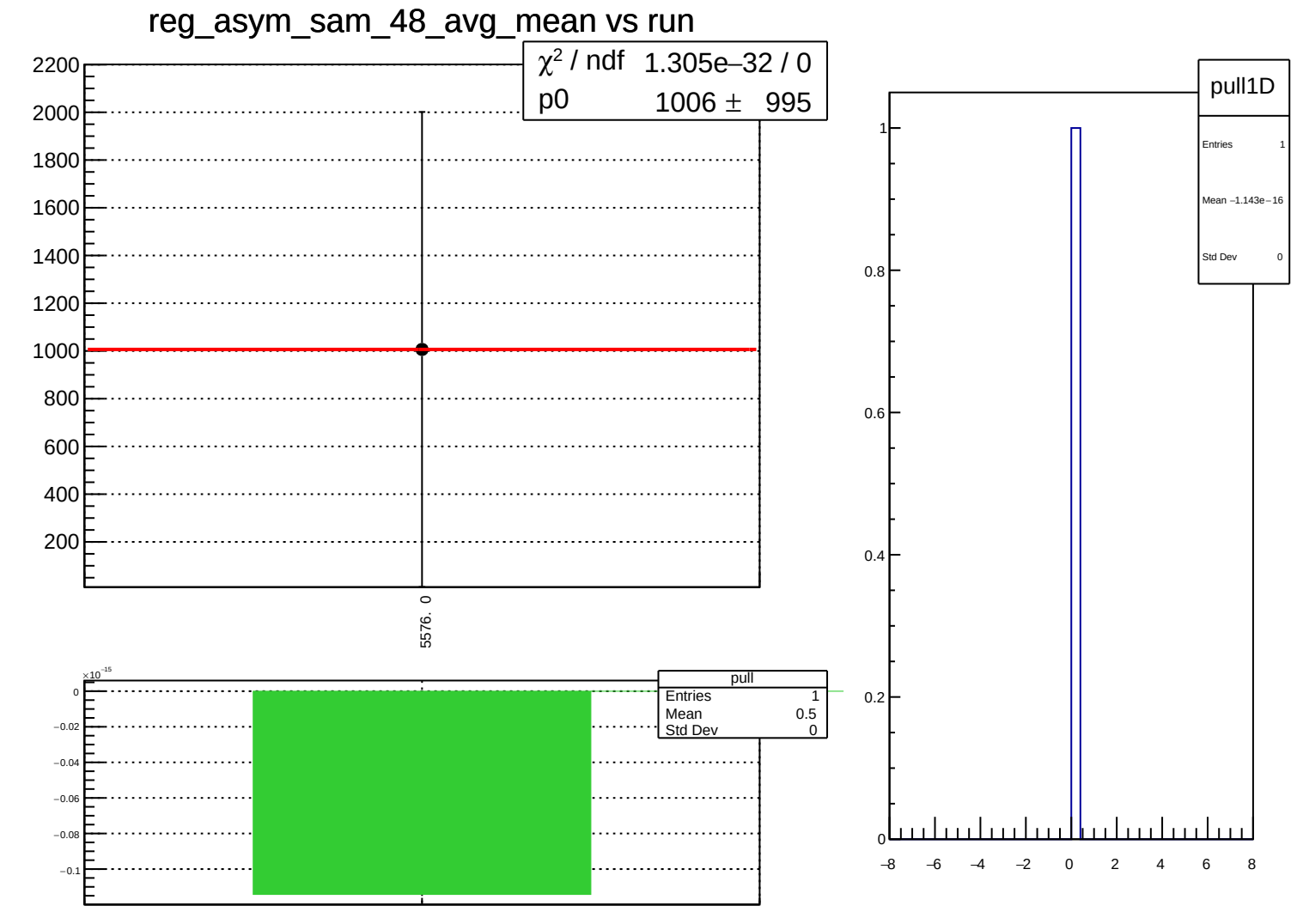
0
2
4
6
8

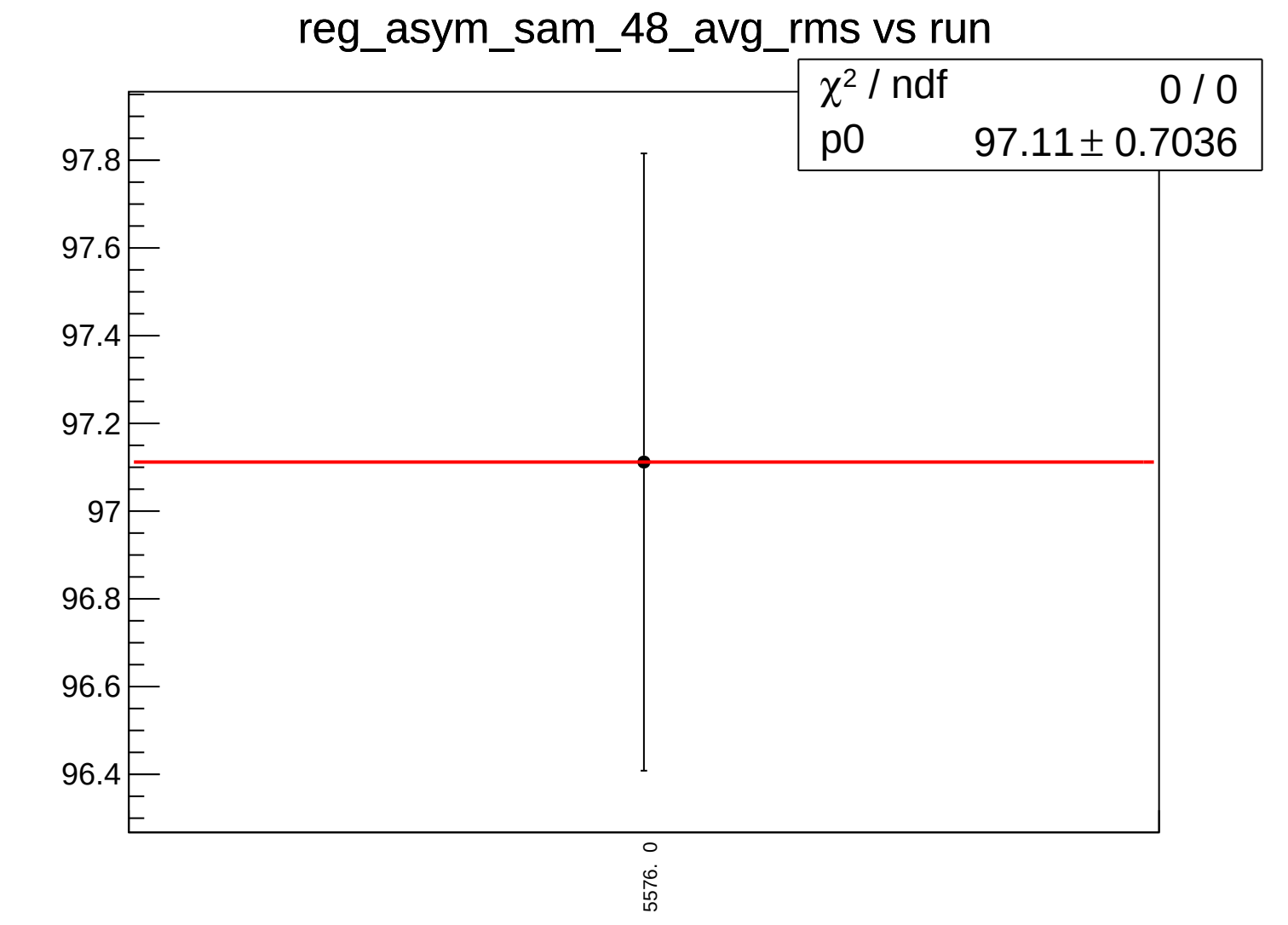

asym_sam_37_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 928.8 ± 6.729
936
934
932
930
928
926
924
922
5576. 0

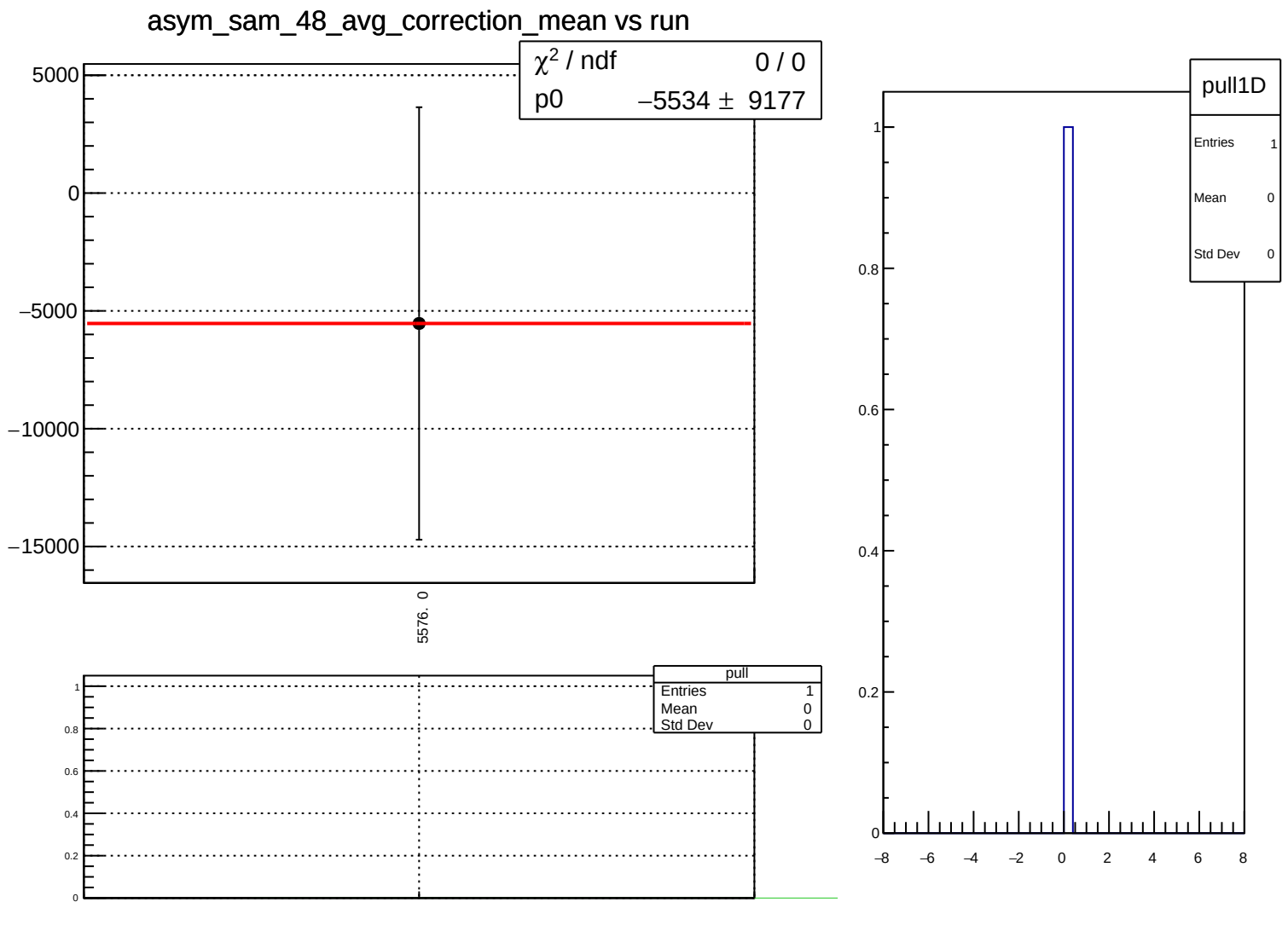

asym_sam_37_avg_mean vs run
χ2 / ndf 0 / 0
p0 3529 ± 9543
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

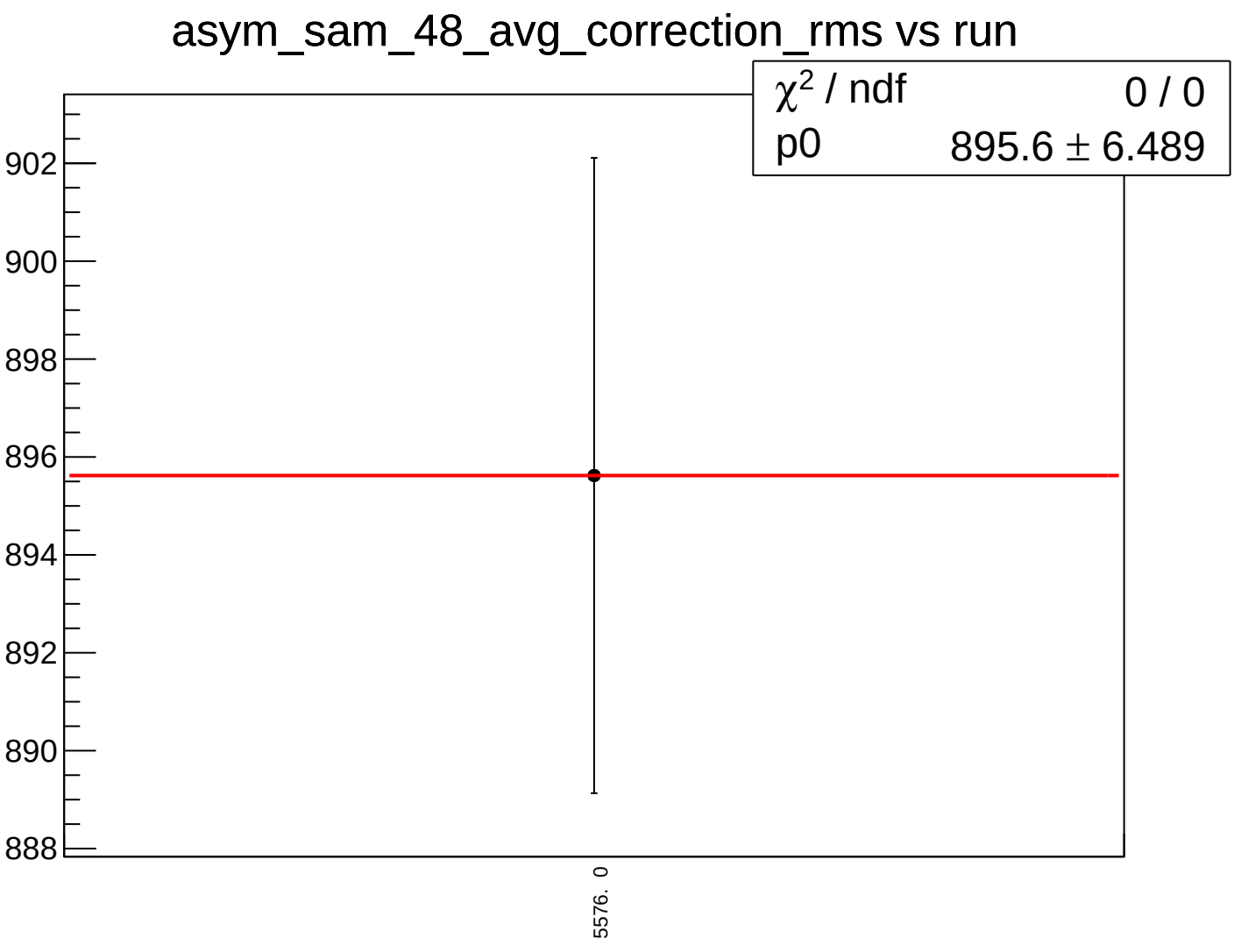

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

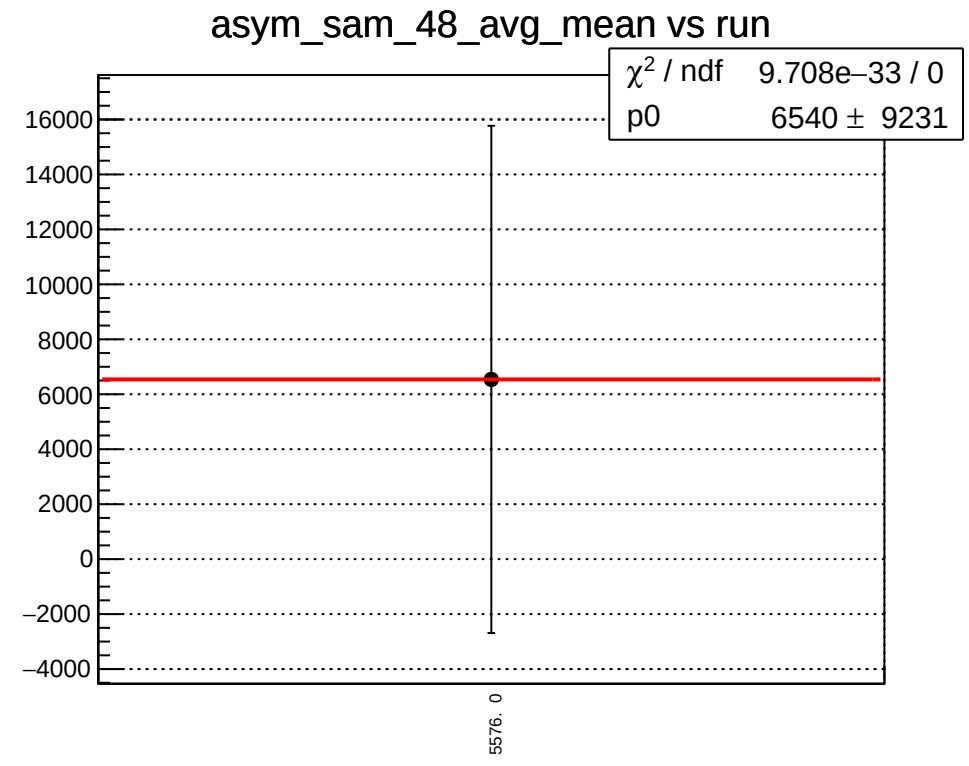

asym_sam_37_avg_rms vs run
χ² / ndf 0 / 0
p0 931.4 ± 6.748
938
936
934
932
930
928
926
924
5576. 0

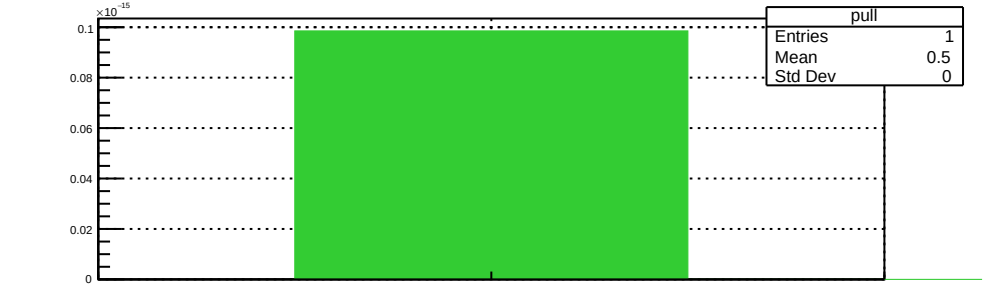

reg_asym_sam_48_avg_mean vs run
χ² / ndf 1.305e−32 / 0
p0 1006 ± 995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.143e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

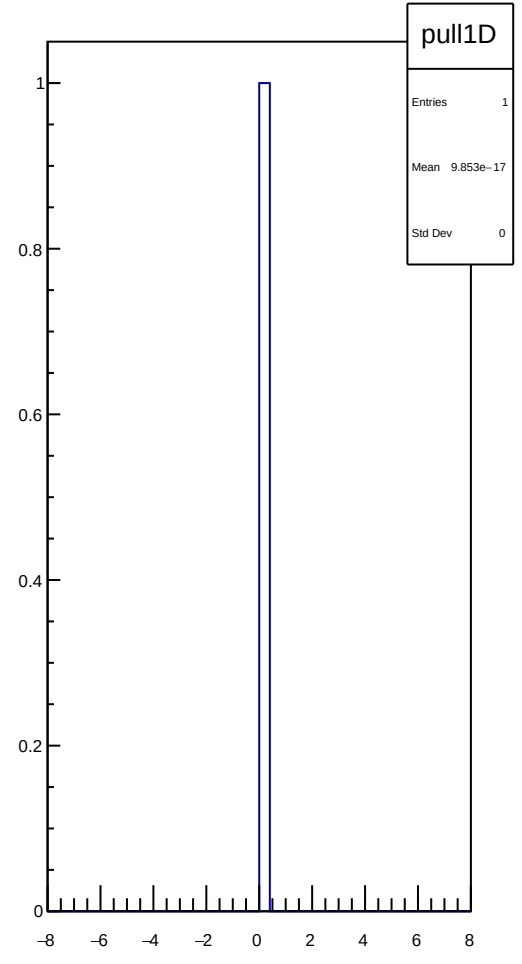

reg_asym_sam_48_avg_rms vs run
χ² / ndf 0 / 0
p0 97.11 ± 0.7036
97.8
97.6
97.4
97.2
97
96.8
96.6
96.4
5576. 0


asym_sam_48_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −5534 ± 9177
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 895.6 ± 6.489
902
900
898
896
894
892
890
888
5576. 0


asym_sam_48_avg_mean vs run
χ² / ndf 9.708e−33 / 0
p0 6540 ± 9231
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
5576. 0


×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 9.853e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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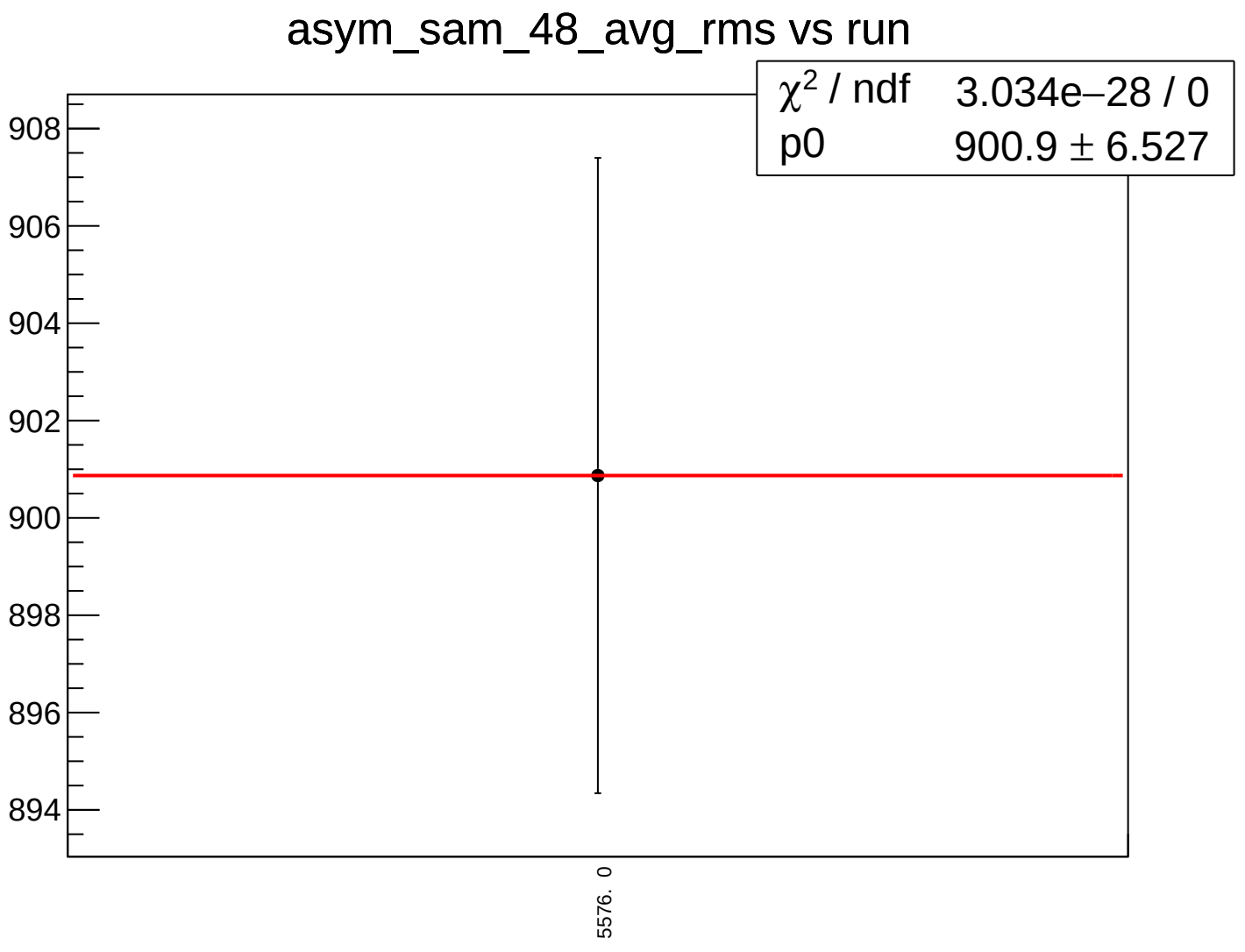
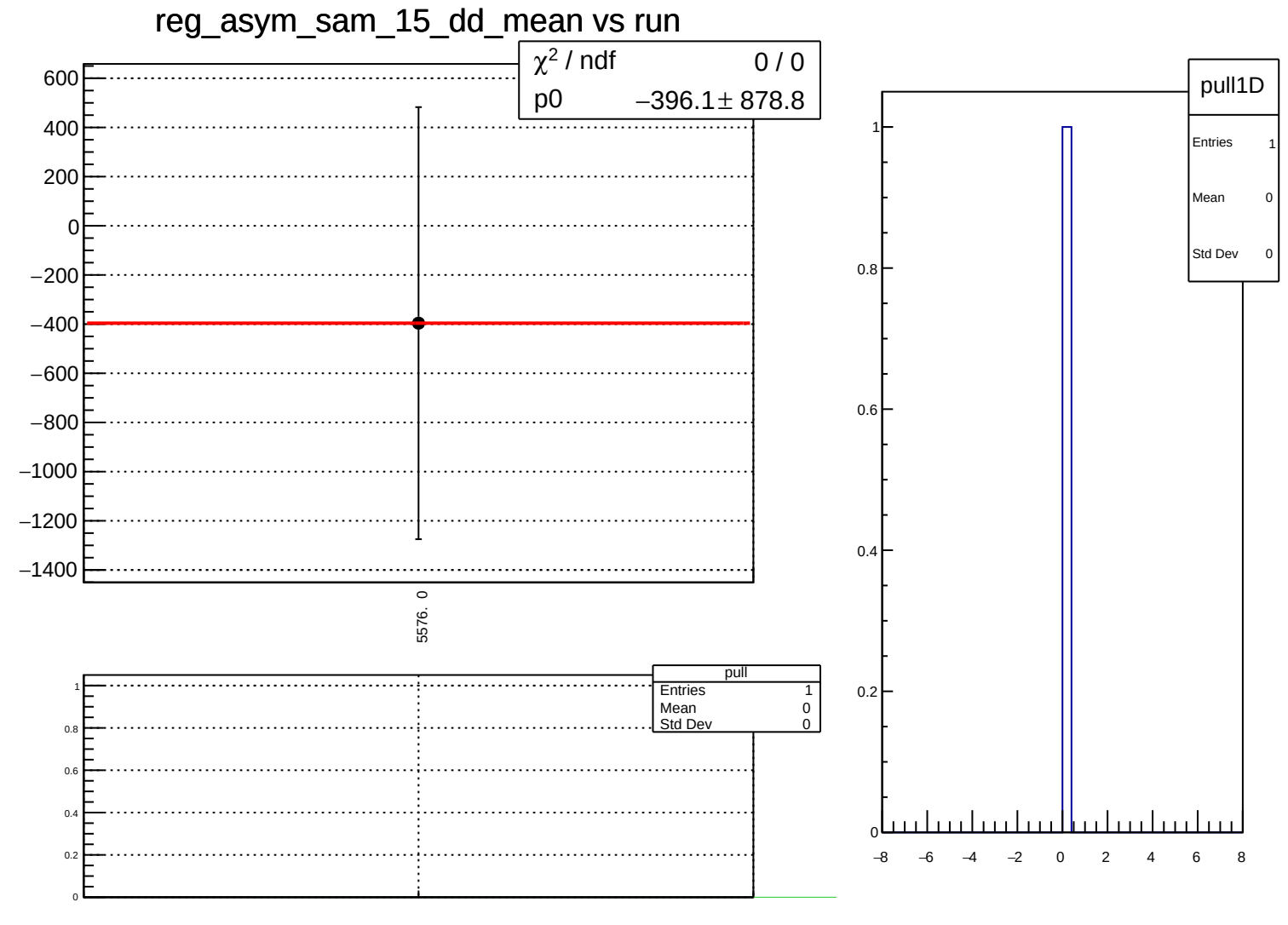
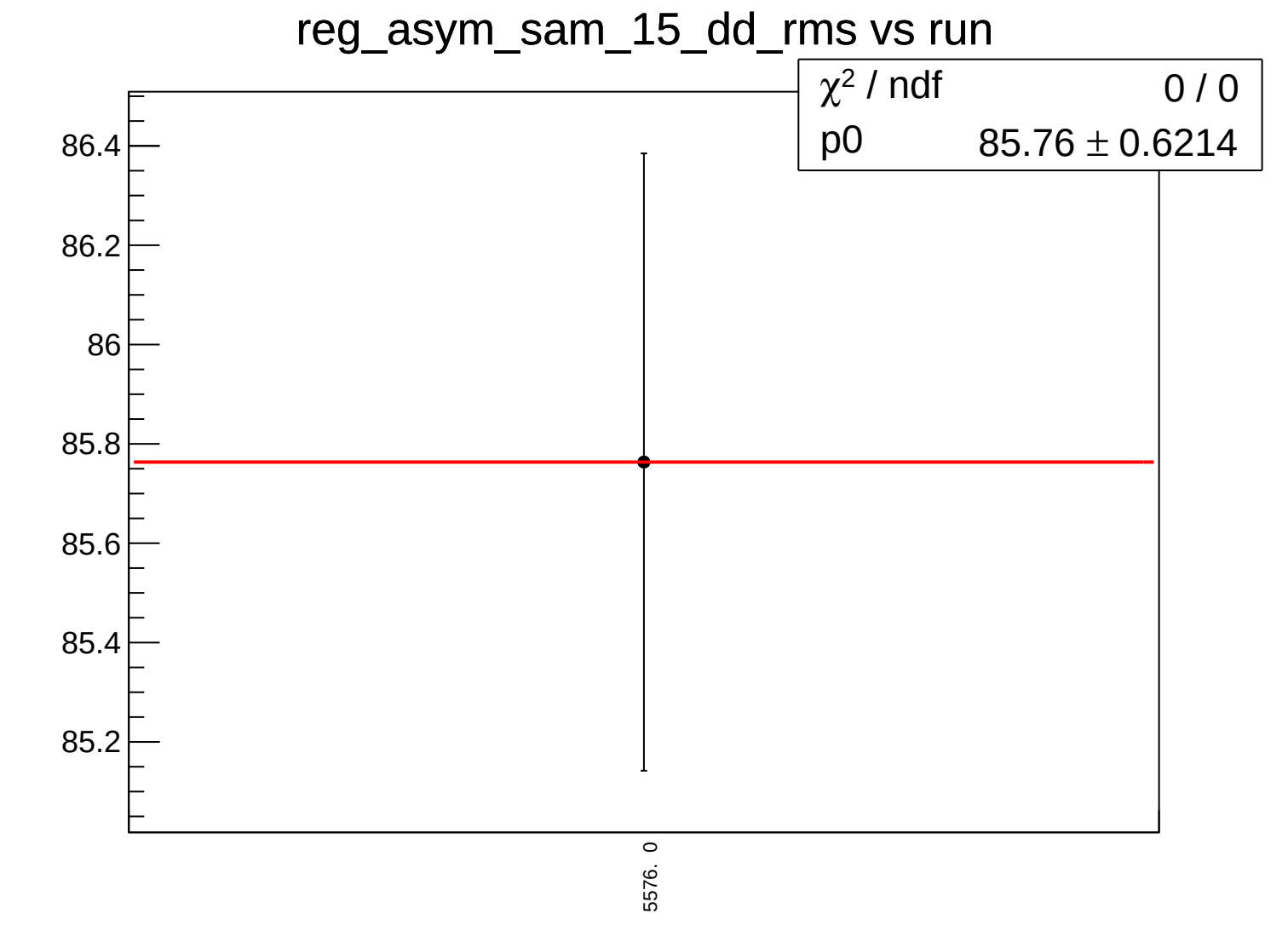
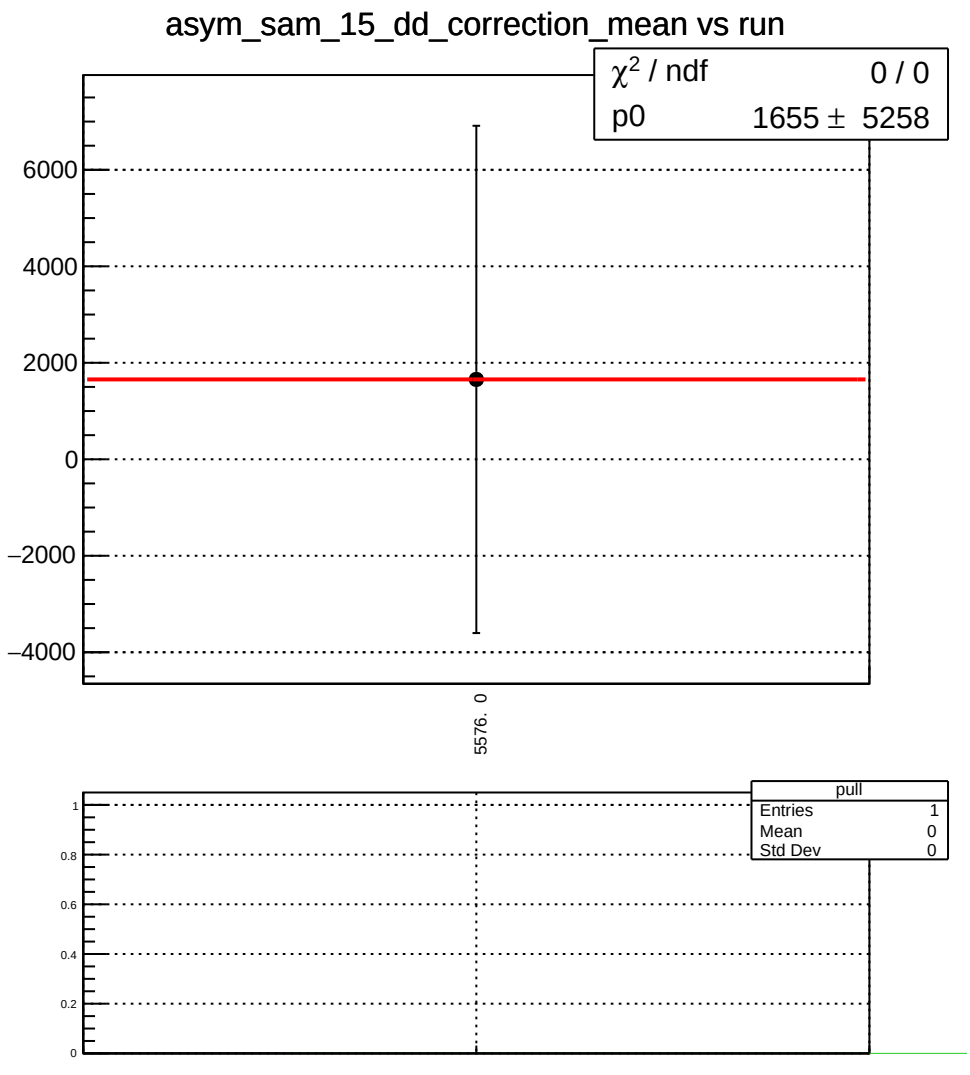
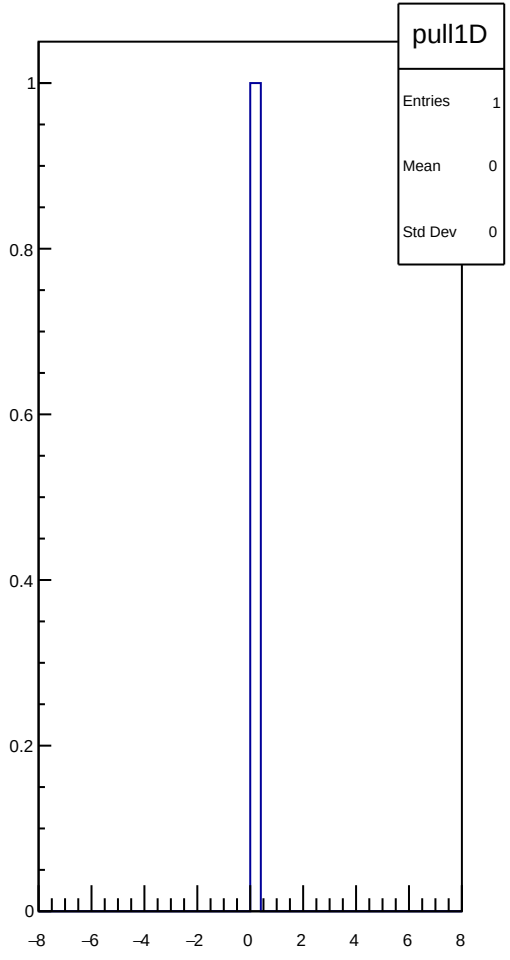
0
2
4
6
8


asym_sam_48_avg_rms vs run
χ² / ndf 3.034e−28 / 0
p0 900.9 ± 6.527
908
906
904
902
900
898
896
894
5576. 0


reg_asym_sam_15_dd_mean vs run
χ² / ndf 0 / 0
p0 −396.1 ± 878.8
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_rms vs run
χ² / ndf 0 / 0
p0 85.76 ± 0.6214
86.4
86.2
86
85.8
85.6
85.4
85.2
5576. 0


asym_sam_15_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1655 ± 5258
6000
4000
2000
0
−2000
−4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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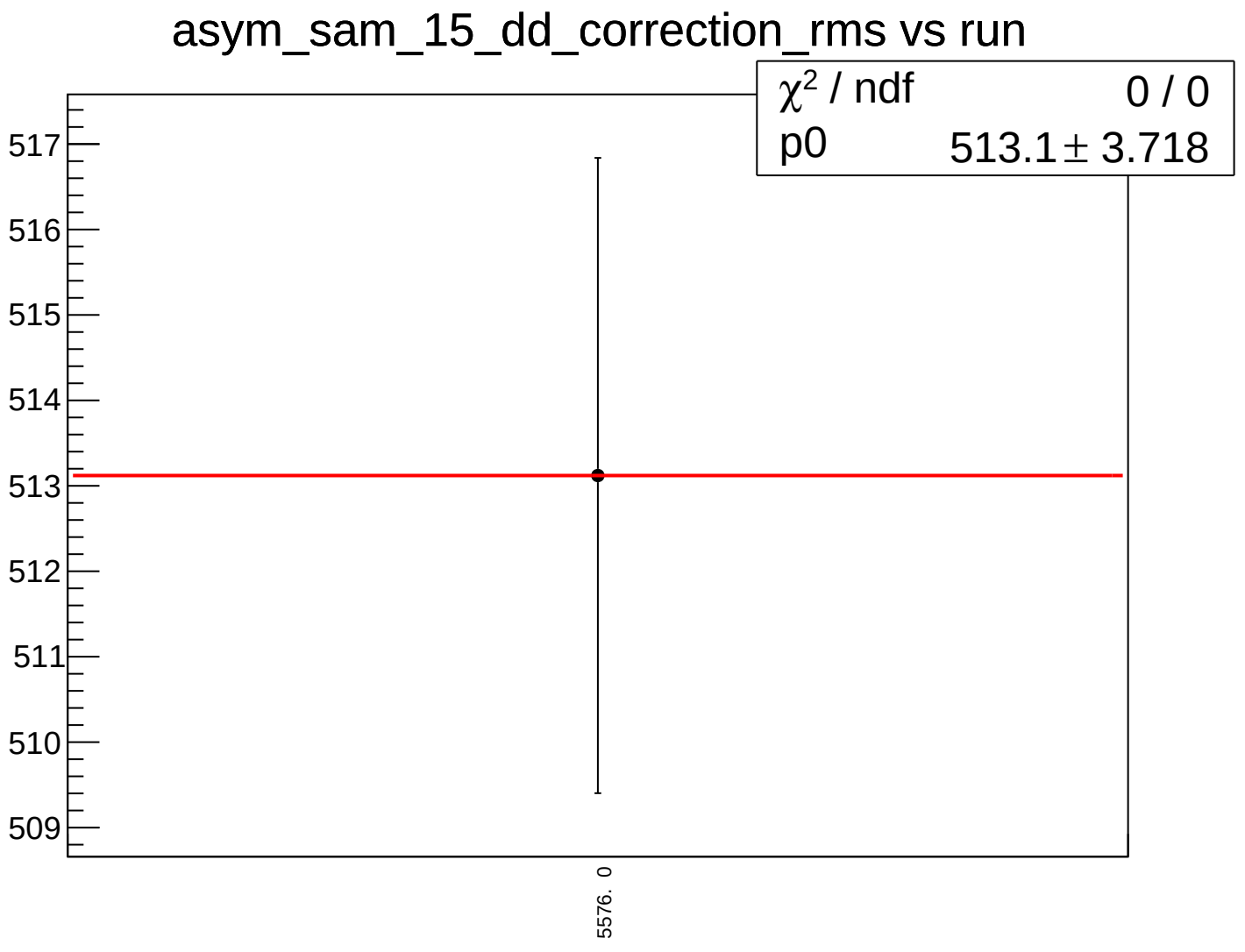
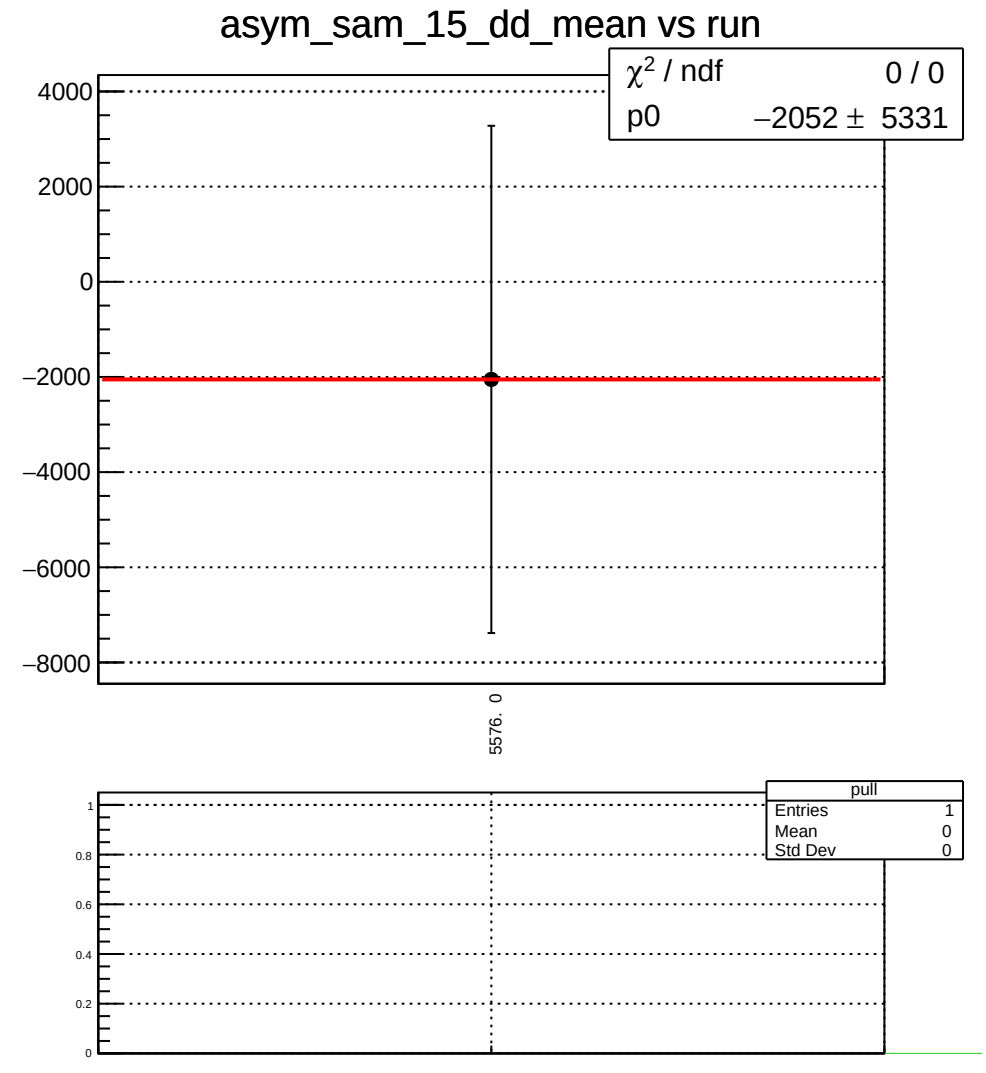
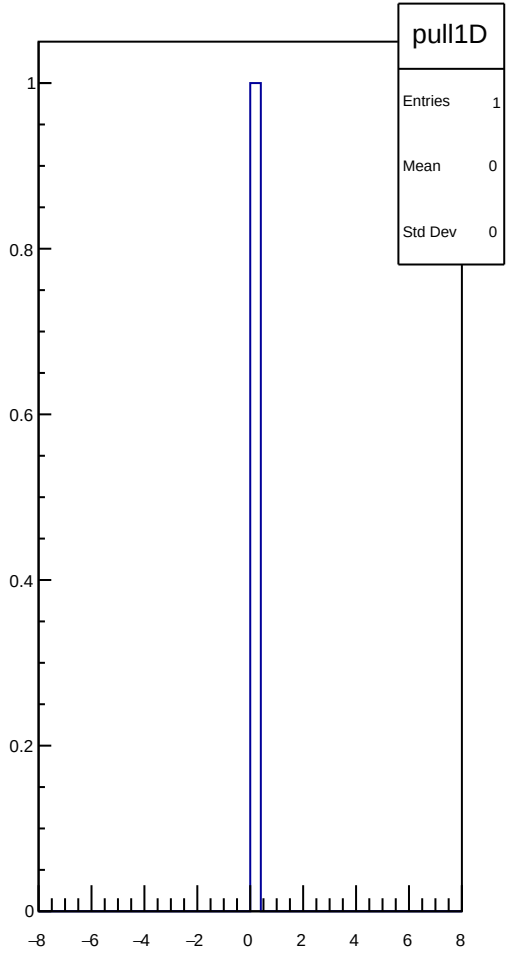
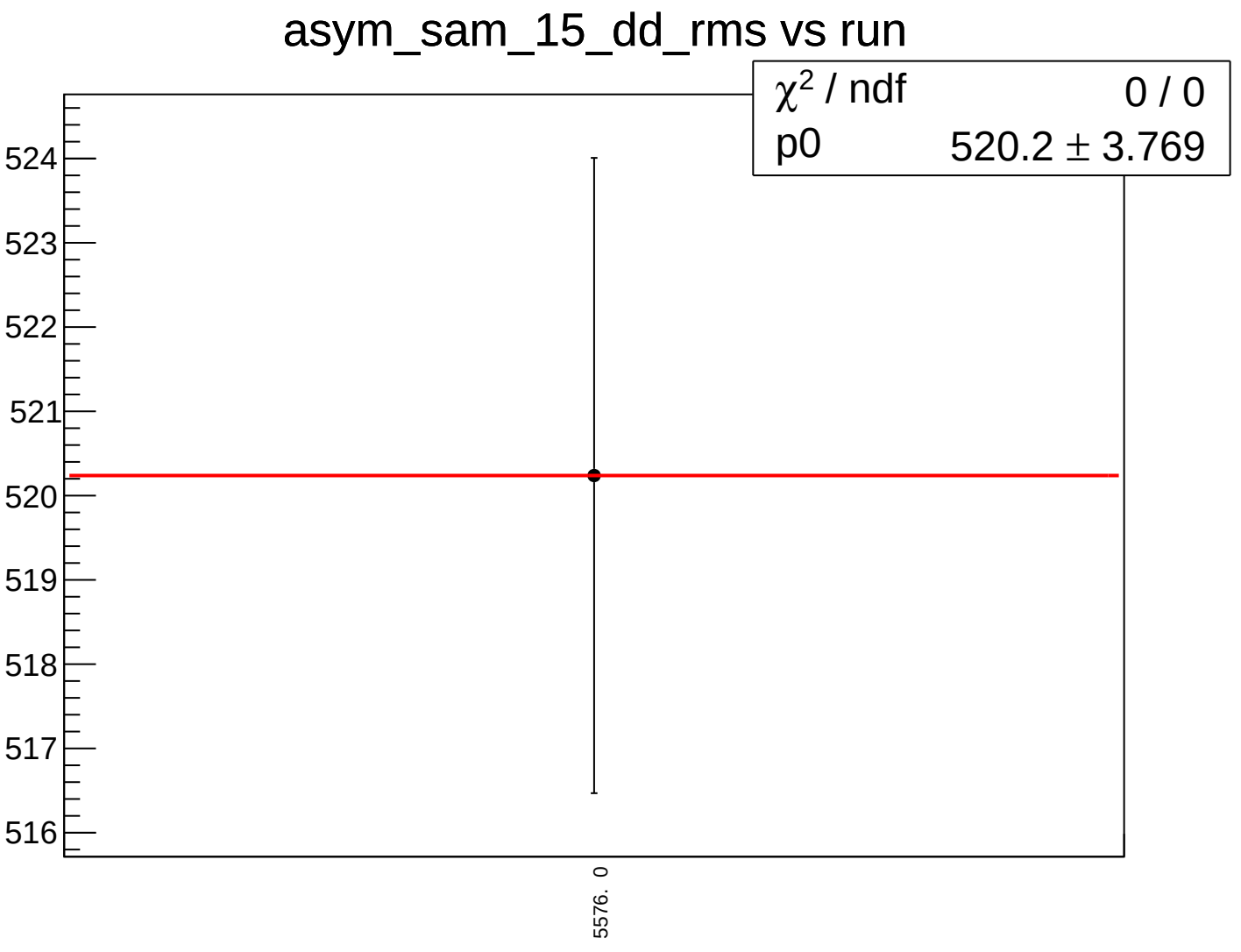
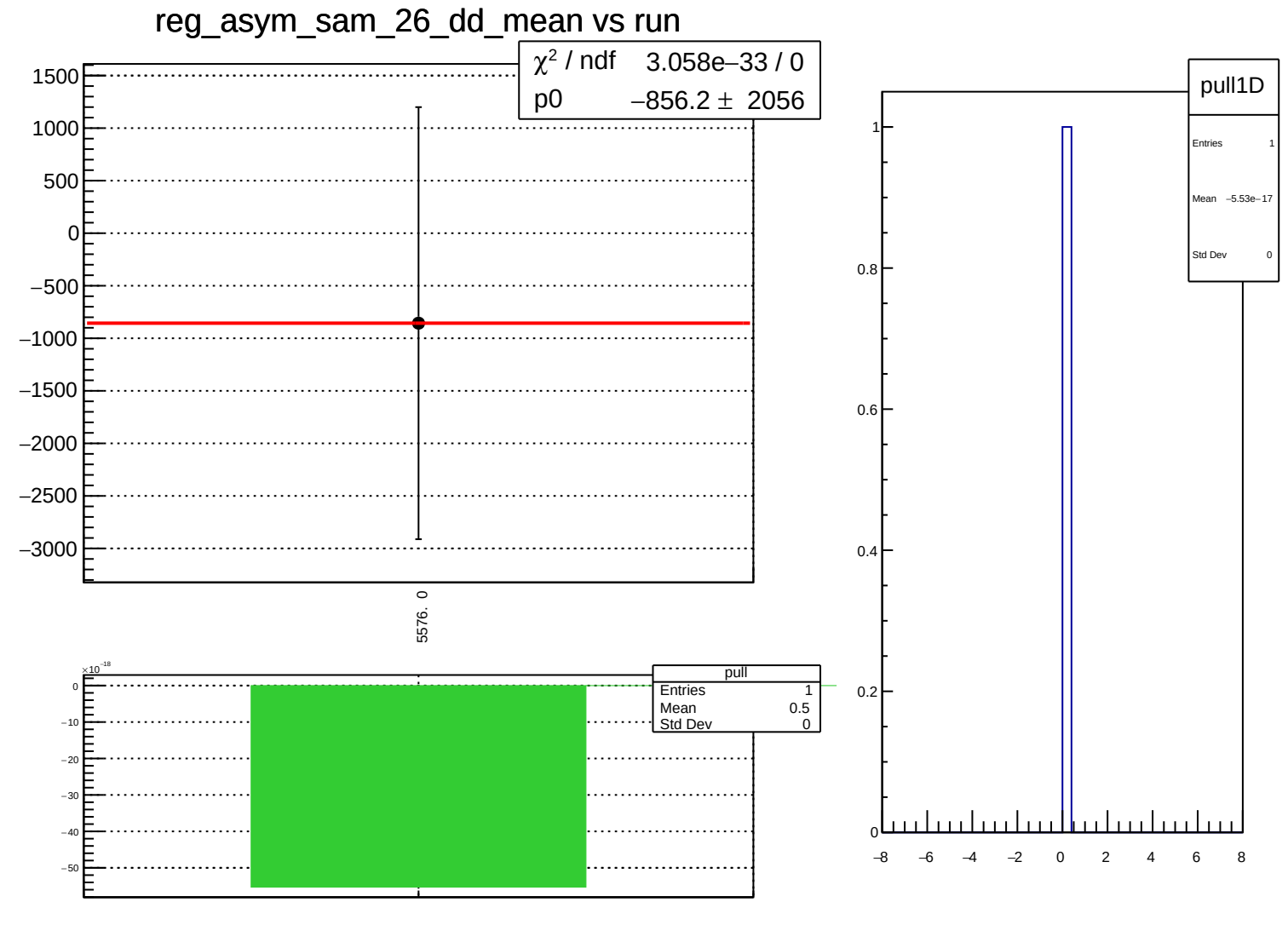
0
2
4
6
8

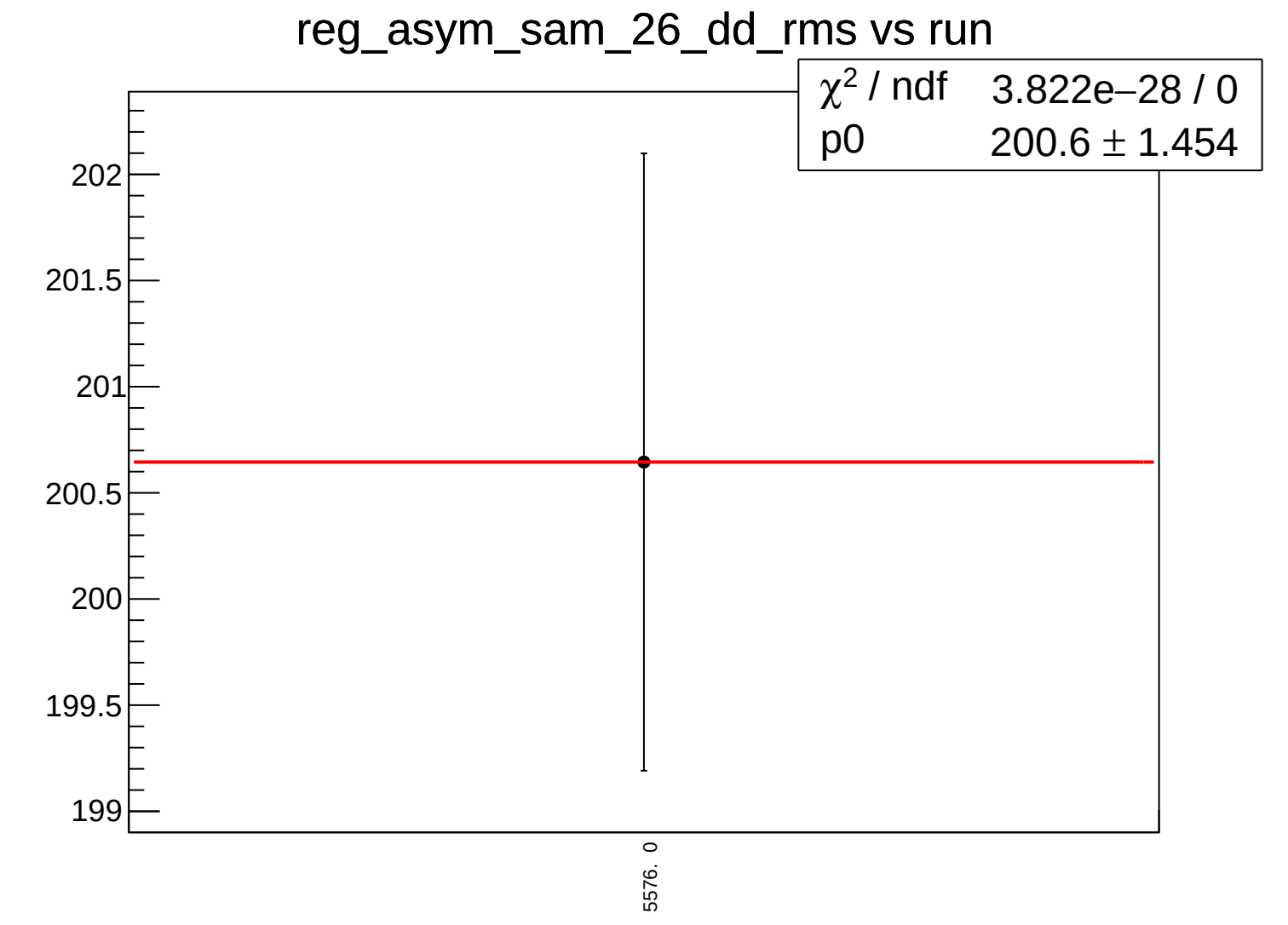

asym_sam_15_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 513.1 ± 3.718
517
516
515
514
513
512
511
510
509
5576. 0

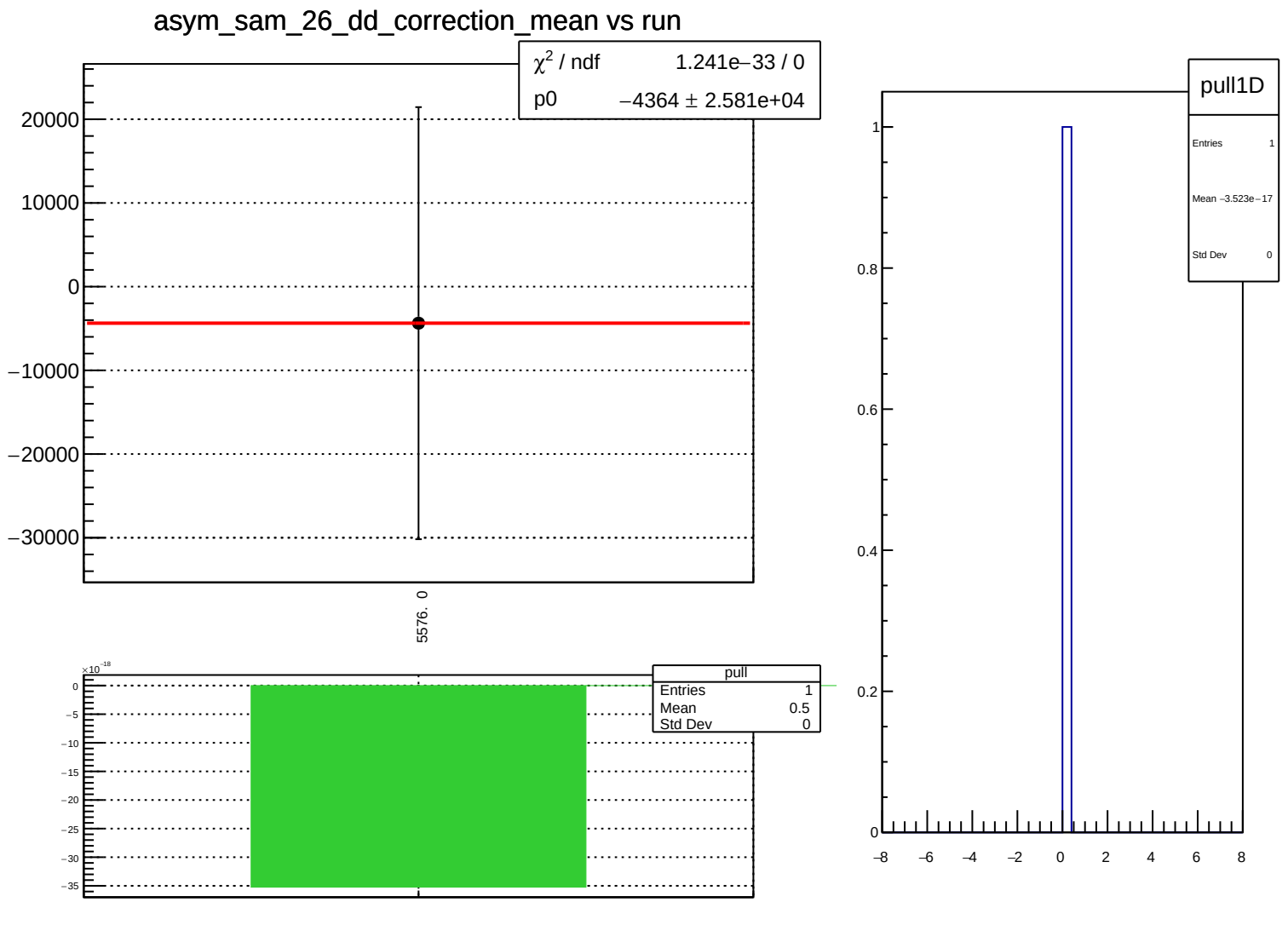

asym_sam_15_dd_mean vs run
χ² / ndf 0 / 0
p0 −2052 ± 5331
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

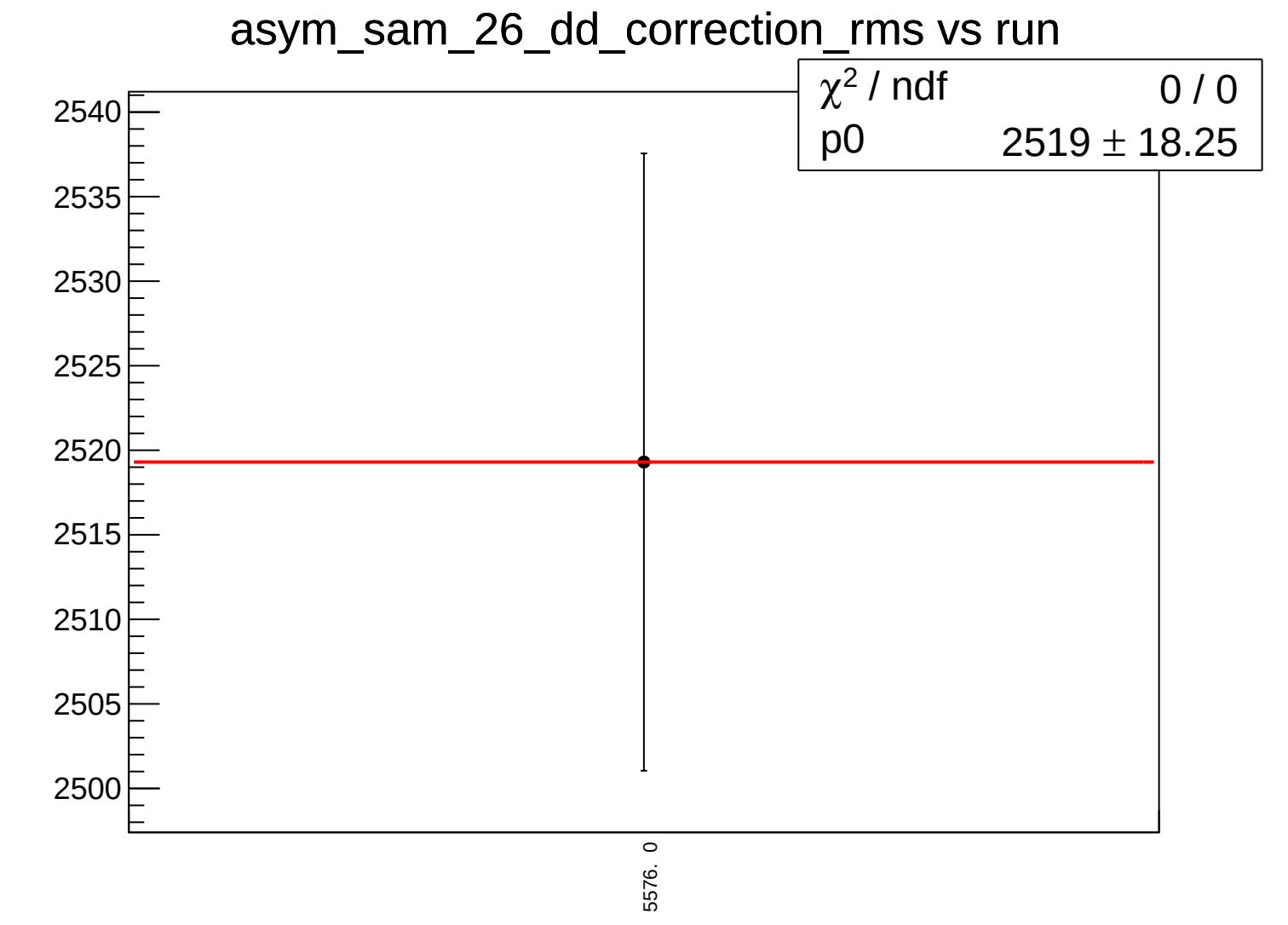

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

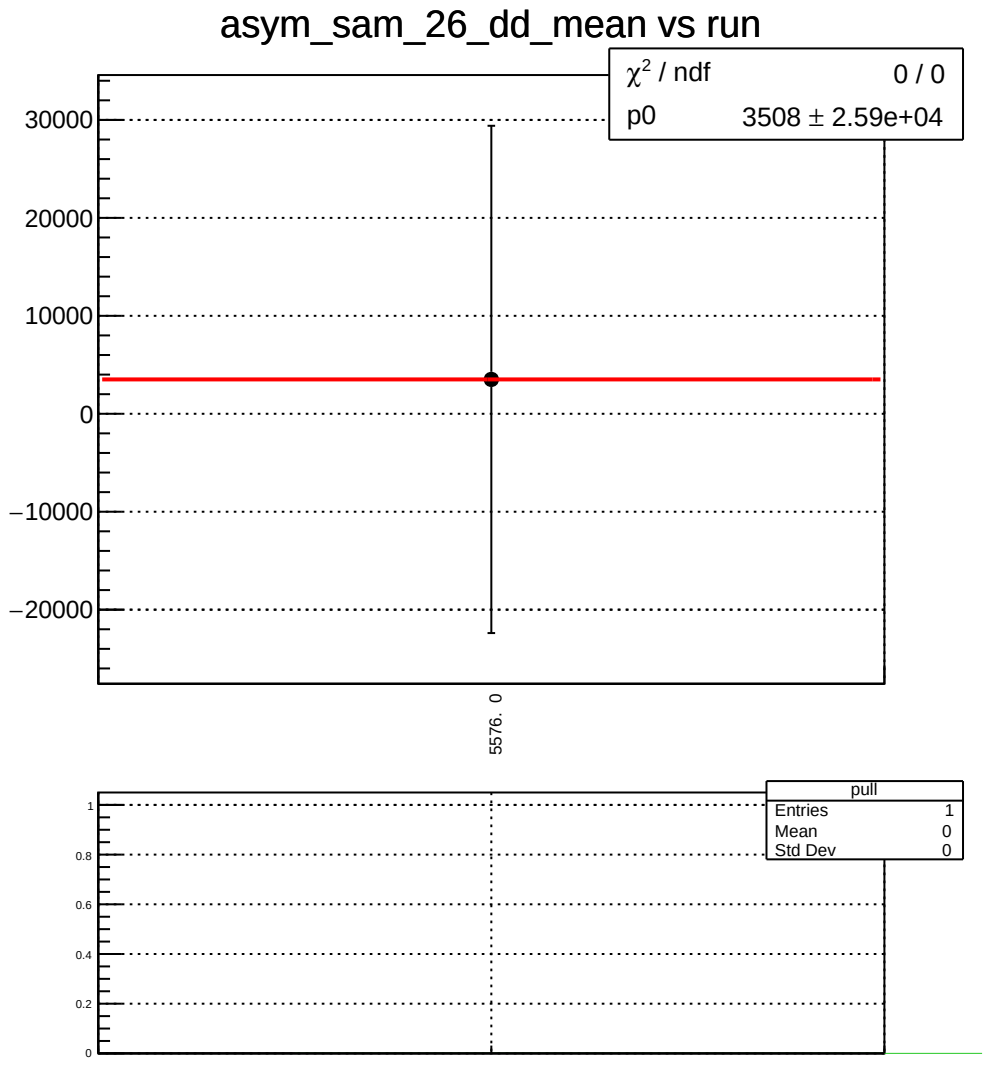

asym_sam_15_dd_rms vs run
χ² / ndf 0 / 0
p0 520.2 ± 3.769
524
523
522
521
520
519
518
517
516
5576. 0

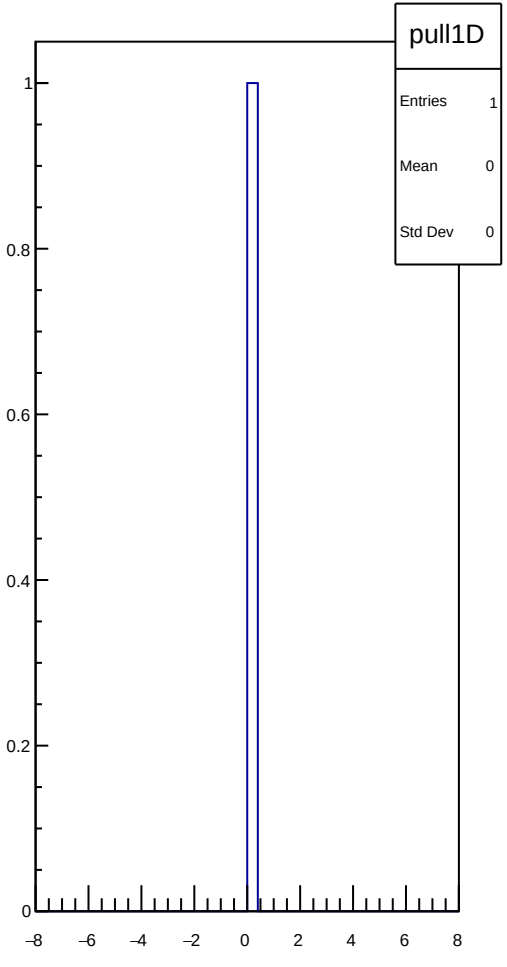

reg_asym_sam_26_dd_mean vs run
χ² / ndf 3.058e−33 / 0
p0 −856.2 ± 2056
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −5.53e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

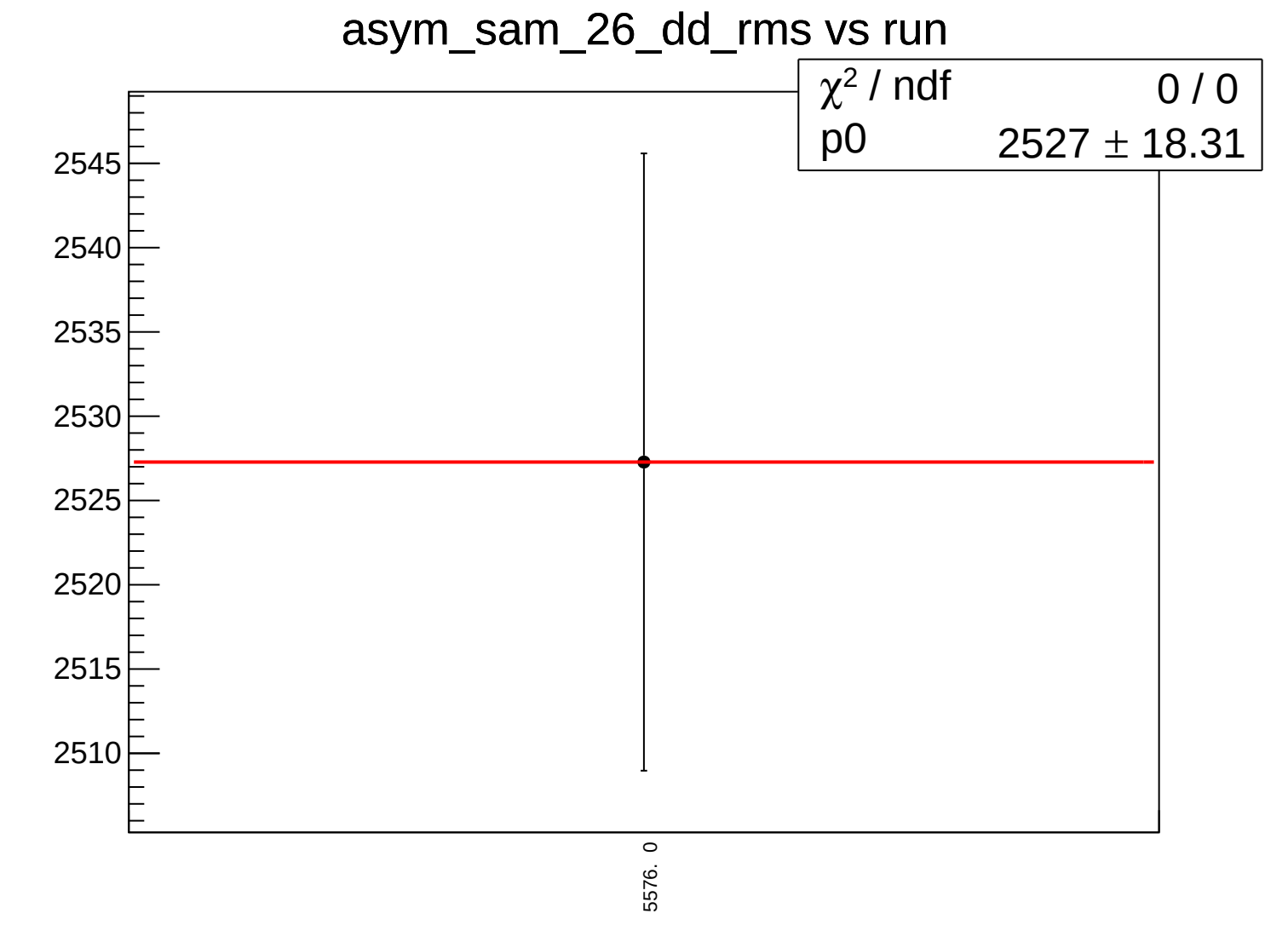

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3.822e−28 / 0
p0 200.6 ± 1.454
202
201.5
201
200.5
200
199.5
199
5576. 0

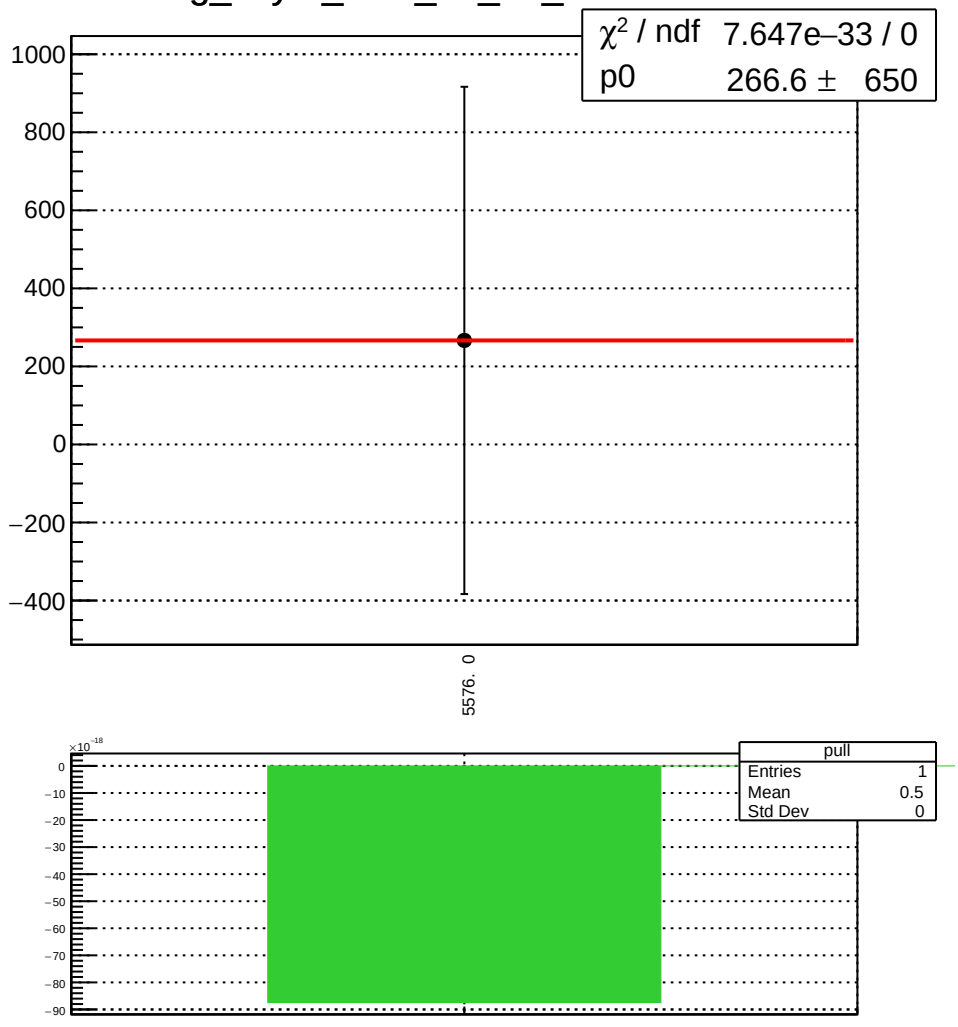

asym_sam_26_dd_correction_mean vs run
χ² / ndf 1.241e−33 / 0
p0 −4364 ± 2.581e+04
20000
10000
0
−10000
−20000
−30000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.523e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

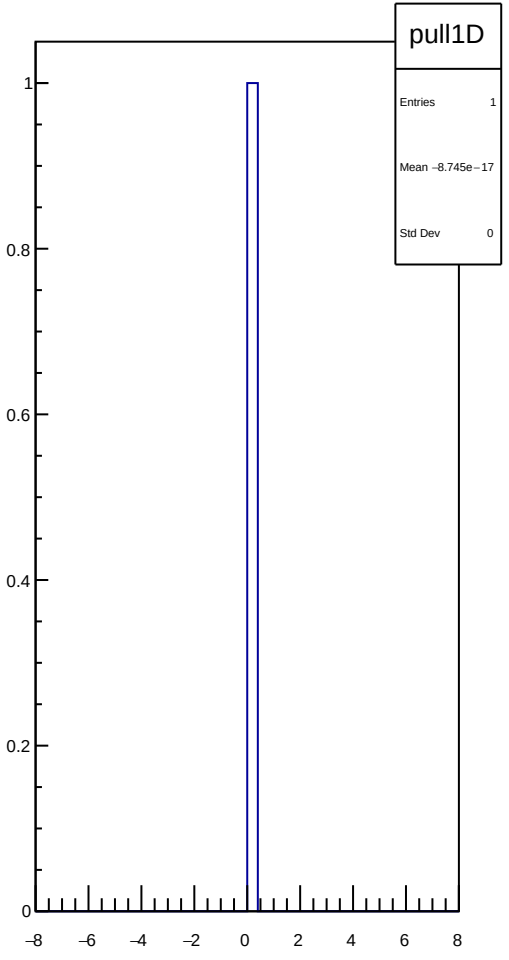

asym_sam_26_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 2519 ± 18.25
2540
2535
2530
2525
2520
2515
2510
2505
2500
5576. 0

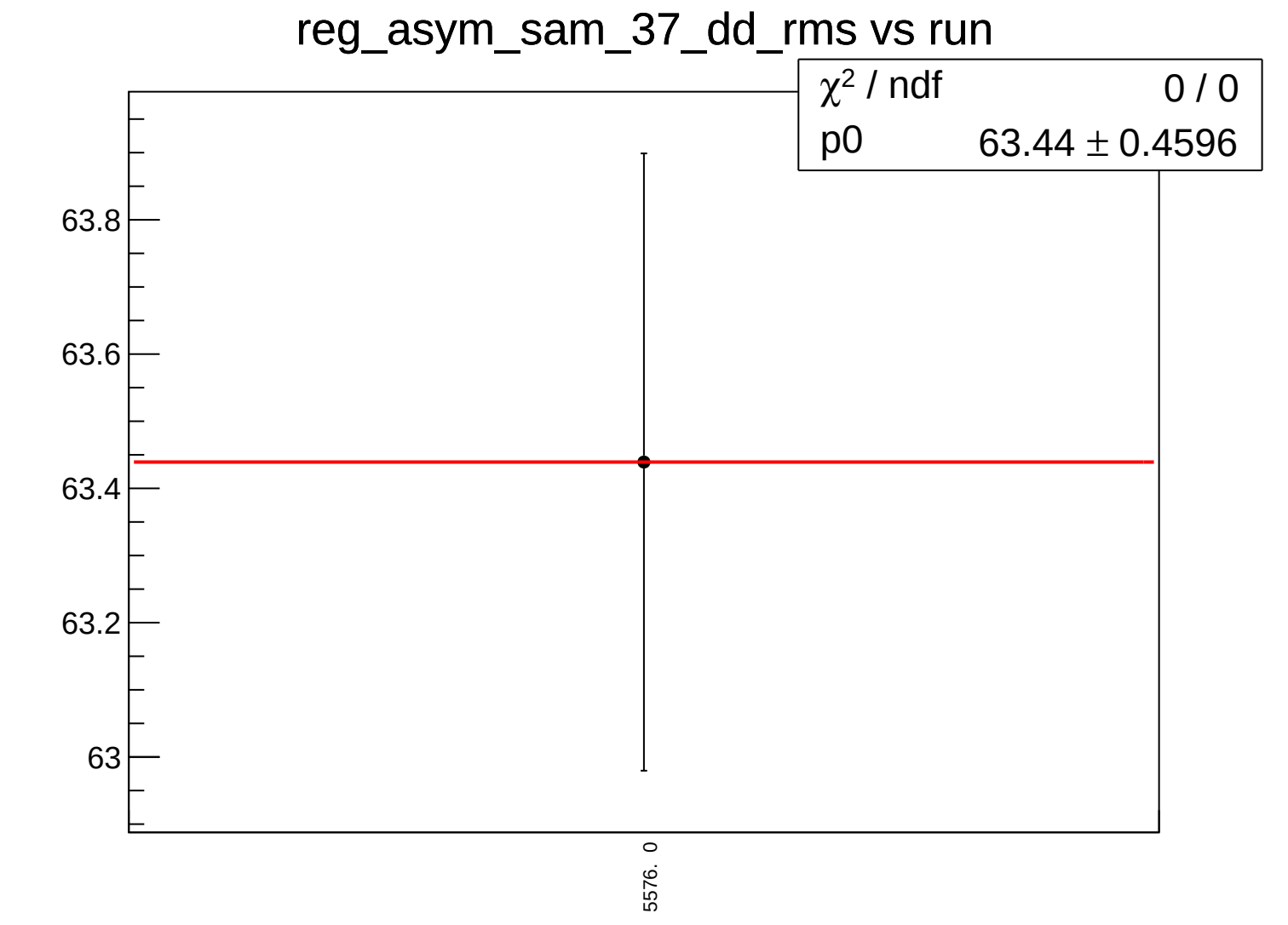

asym_sam_26_dd_mean vs run
χ² / ndf 0 / 0
p0 3508 ± 2.59e+04
30000
20000
10000
0
−10000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

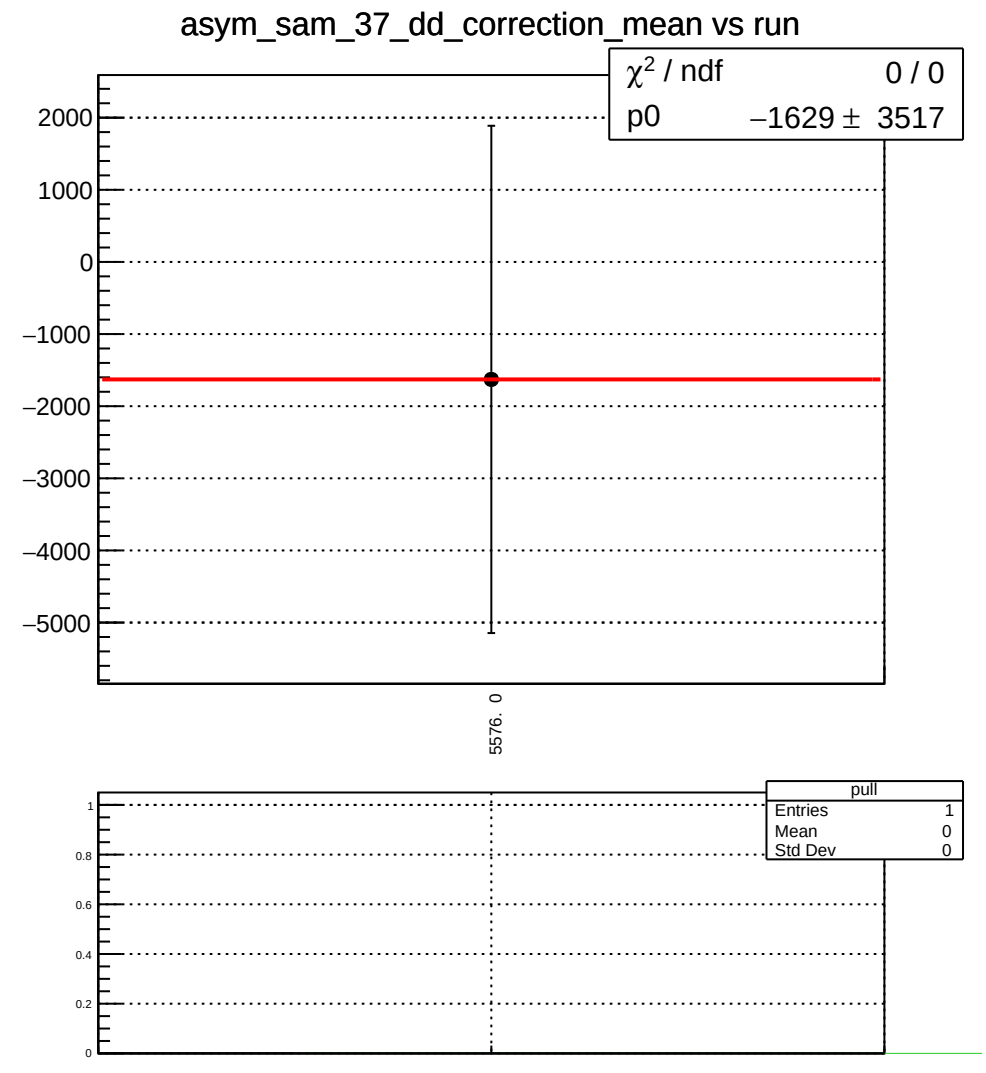

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

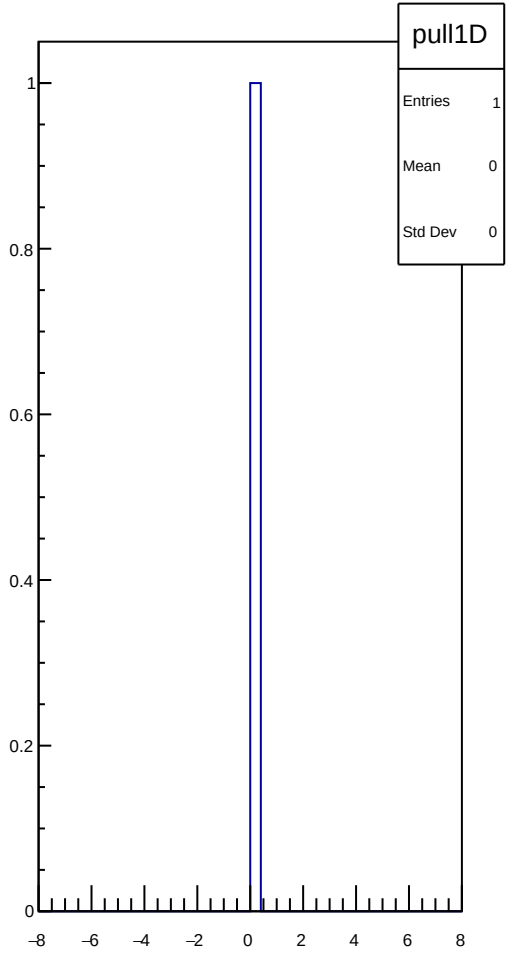

asym_sam_26_dd_rms vs run
χ² / ndf 0 / 0
p0 2527 ± 18.31
2545
2540
2535
2530
2525
2520
2515
2510
5576. 0

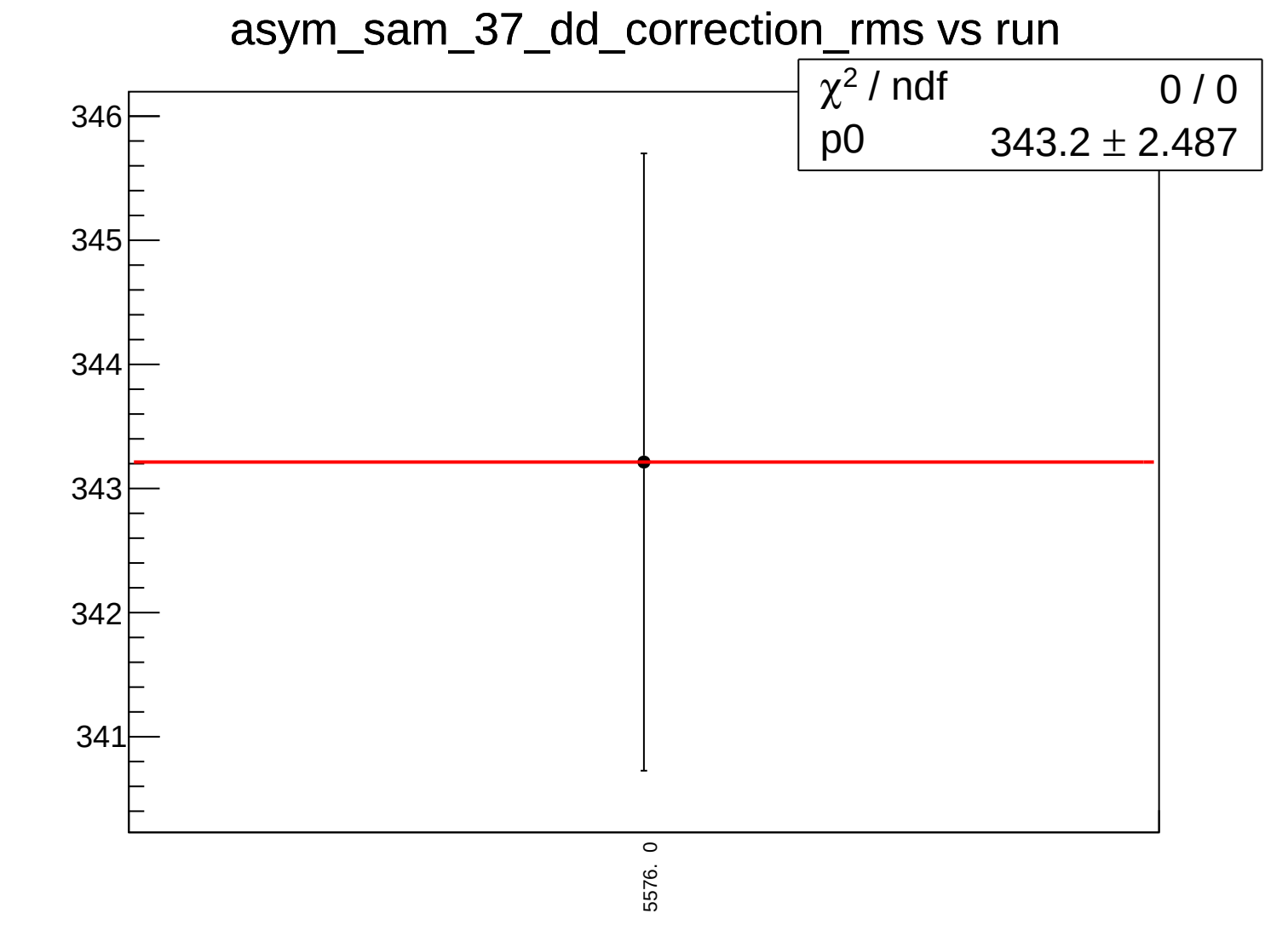

reg_asym_sam_37_dd_mean vs run
χ² / ndf 7.647e−33 / 0
p0 266.6 ± 650
1000
800
600
400
200
0
−200
−400
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
pull
Entries 1
Mean 0.5
Std Dev 0

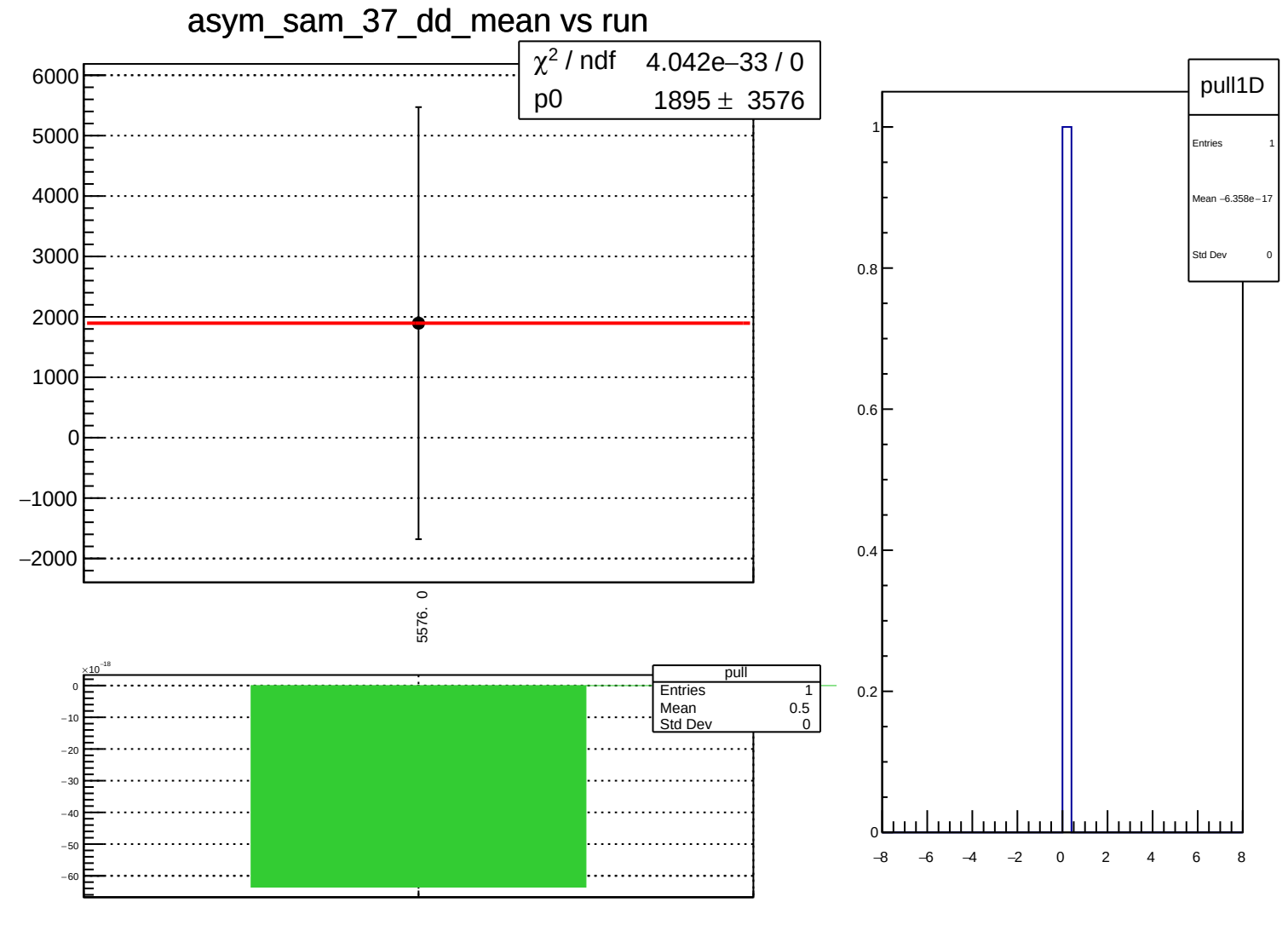

pull1D
Entries 1
Mean −8.745e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

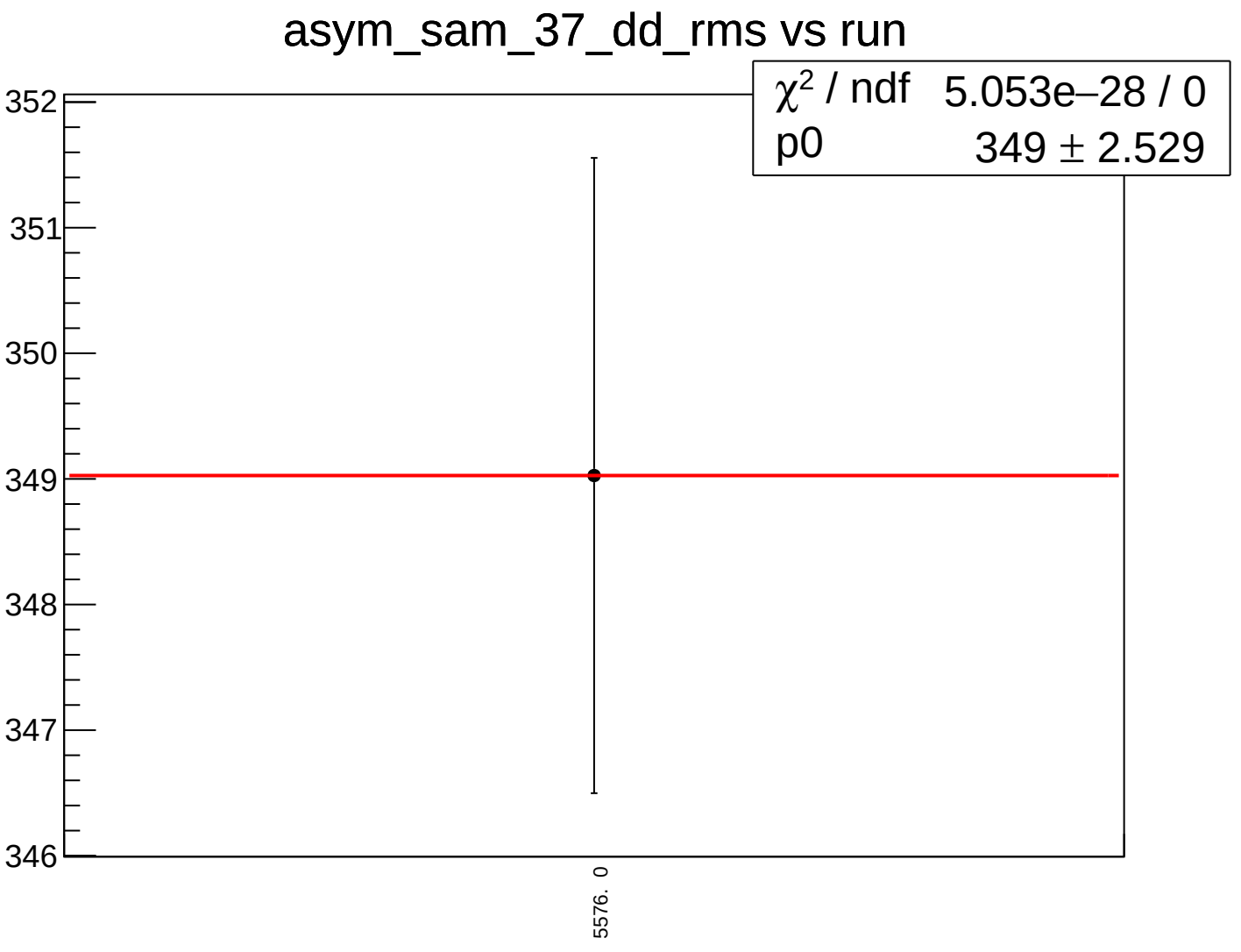

reg_asym_sam_37_dd_rms vs run
χ² / ndf 0 / 0
p0 63.44 ± 0.4596
63.8
63.6
63.4
63.2
63
5576. 0

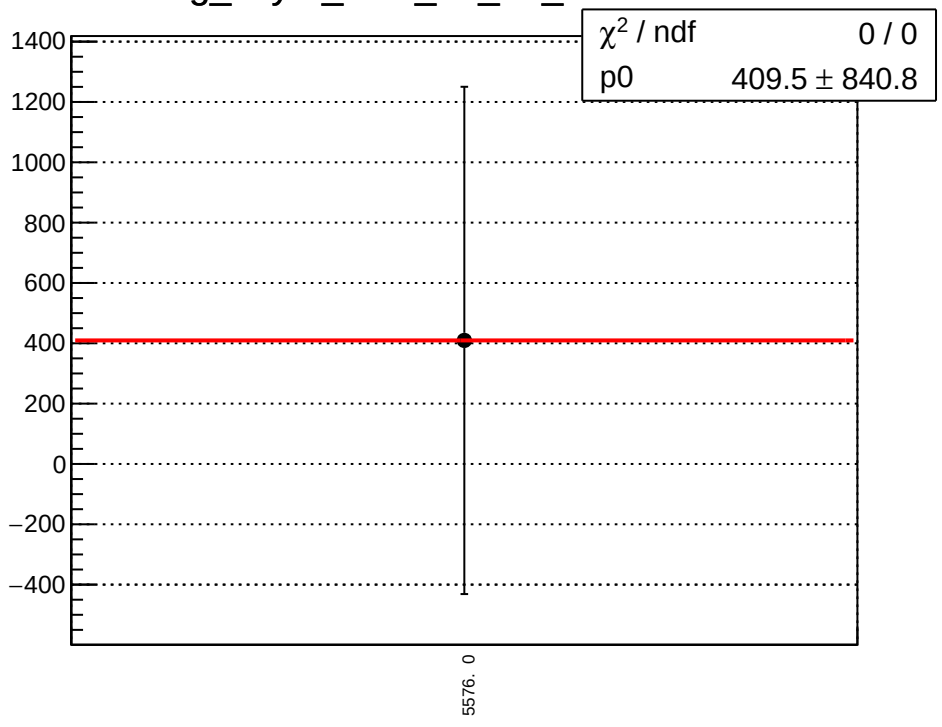

asym_sam_37_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −1629 ± 3517
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

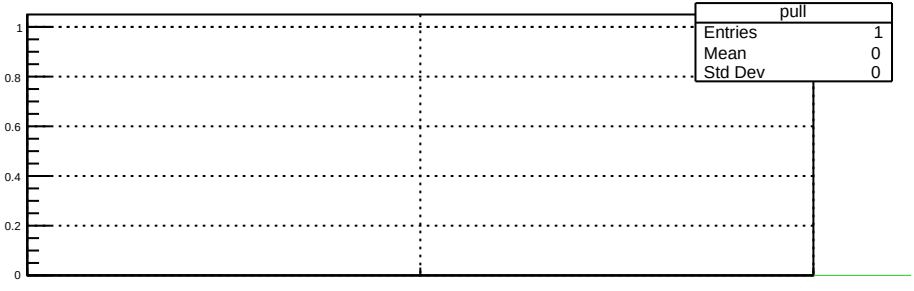

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

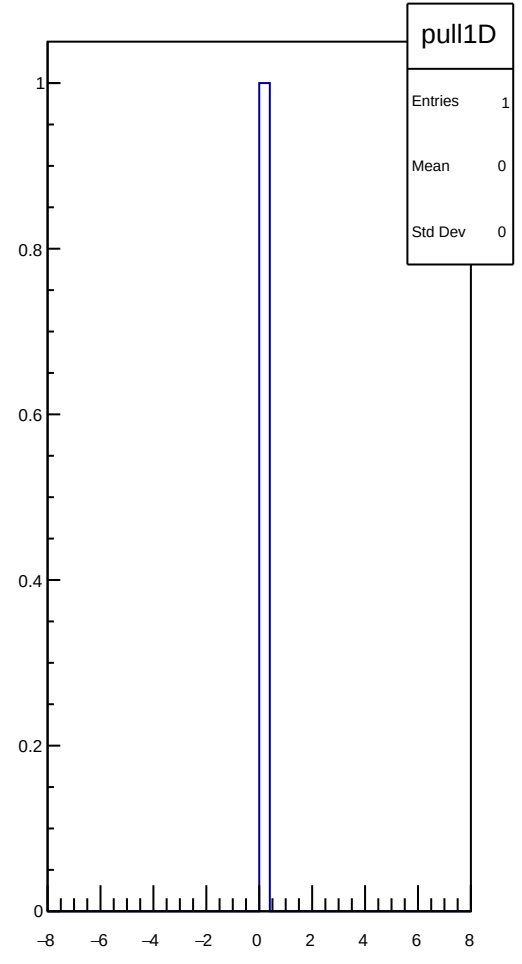

asym_sam_37_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 343.2 ± 2.487
346
345
344
343
342
341
5576. 0

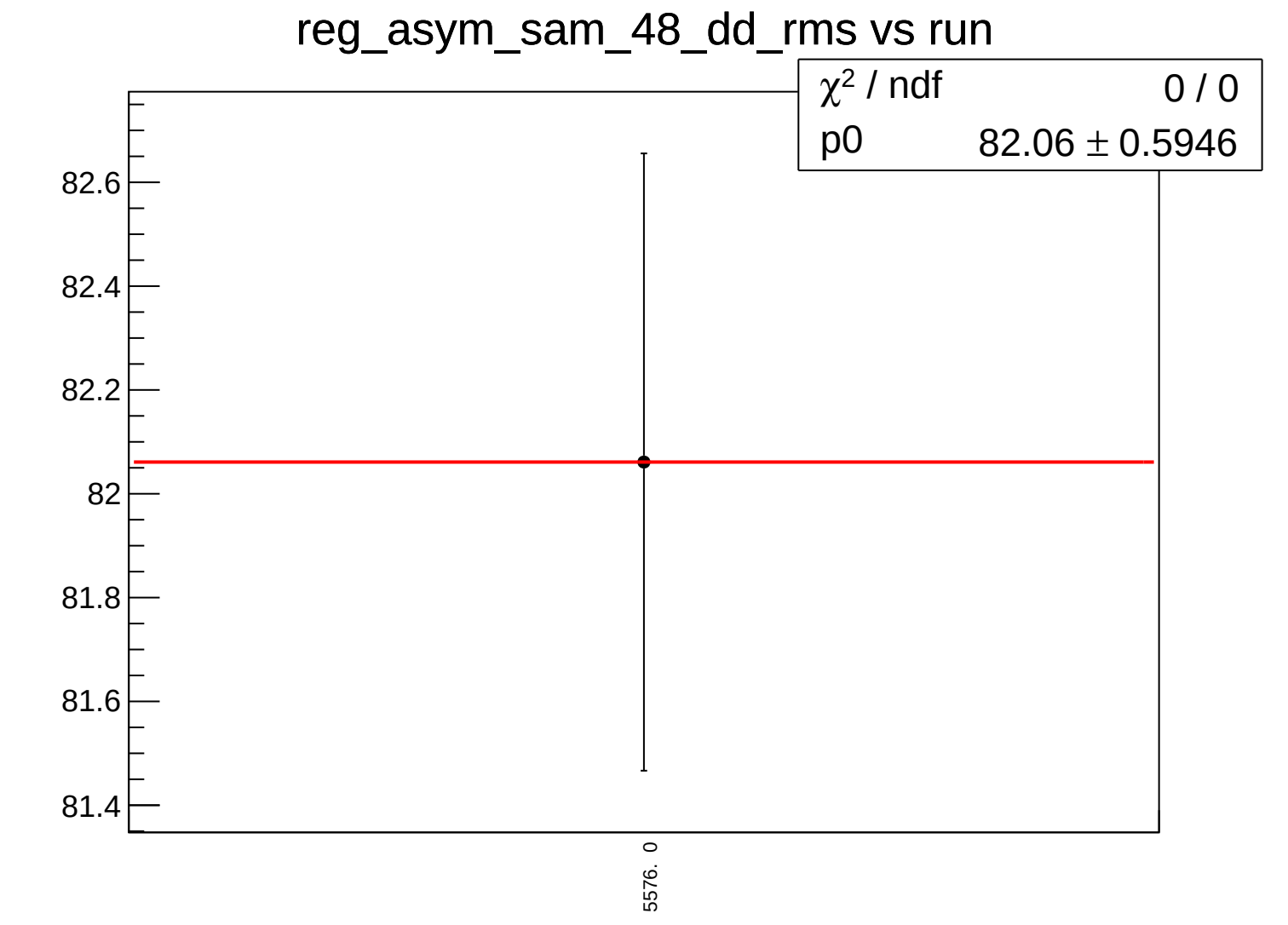

asym_sam_37_dd_mean vs run
χ² / ndf 4.042e−33 / 0
p0 1895 ± 3576
6000
5000
4000
3000
2000
1000
0
−1000
−2000
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.358e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

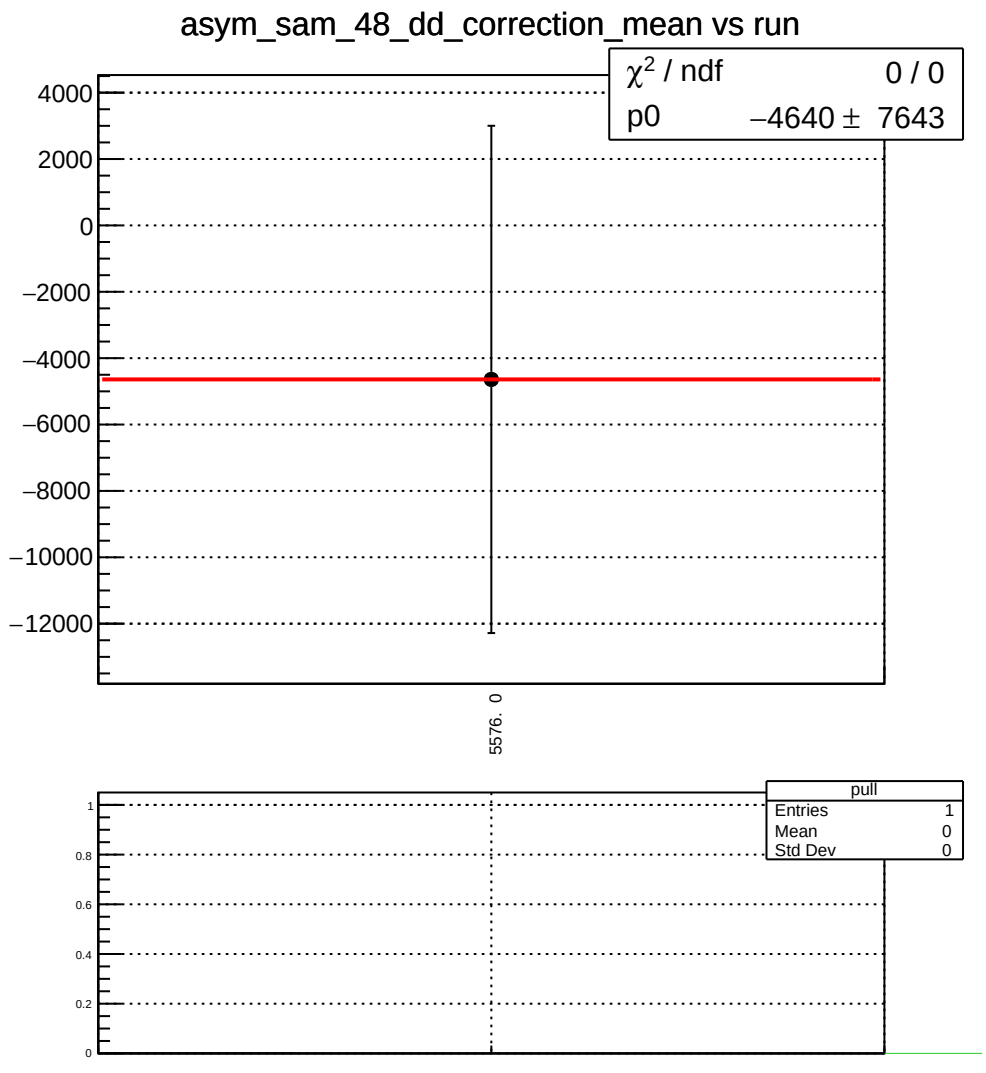

asym_sam_37_dd_rms vs run
χ² / ndf 5.053e−28 / 0
p0 349 ± 2.529
352
351
350
349
348
347
346
5576. 0

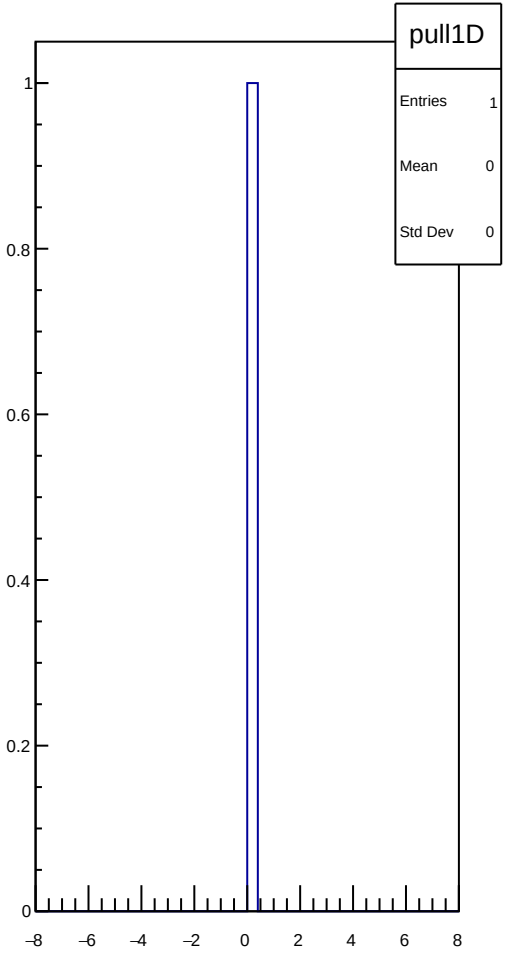

reg_asym_sam_48_dd_mean vs run
χ² / ndf 0 / 0
p0 409.5 ± 840.8
1400
1200
1000
800
600
400
200
0
−200
−400
5576. 0

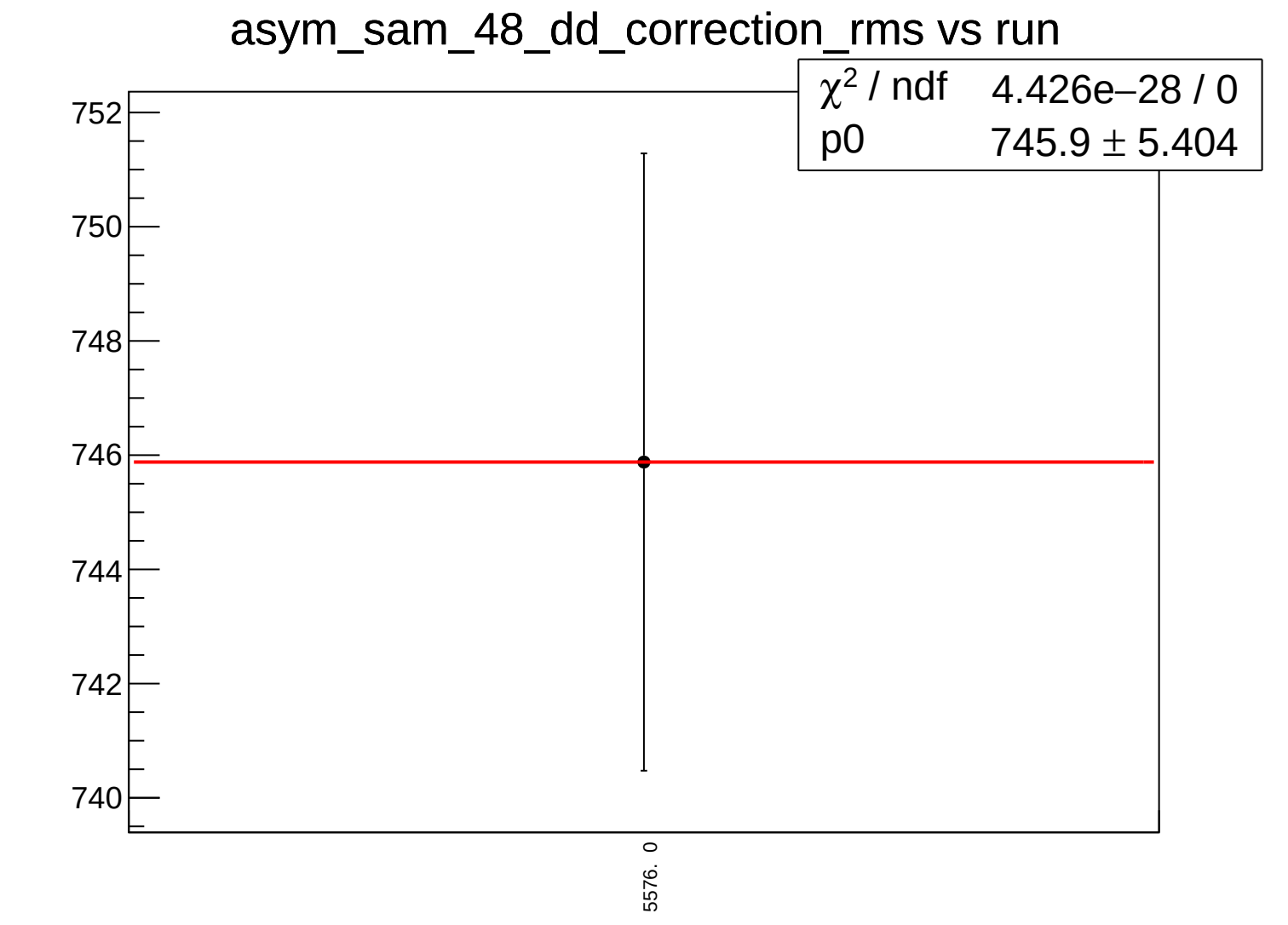

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

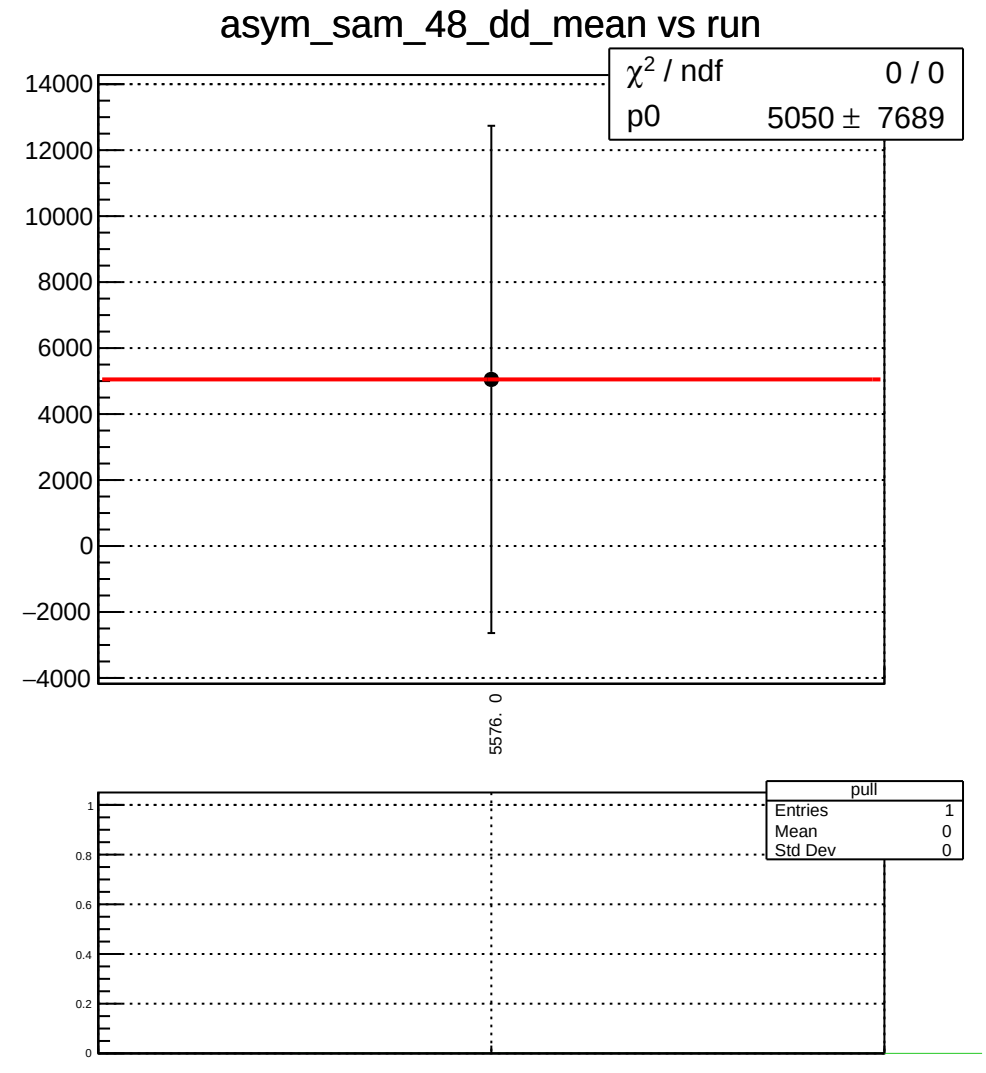

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

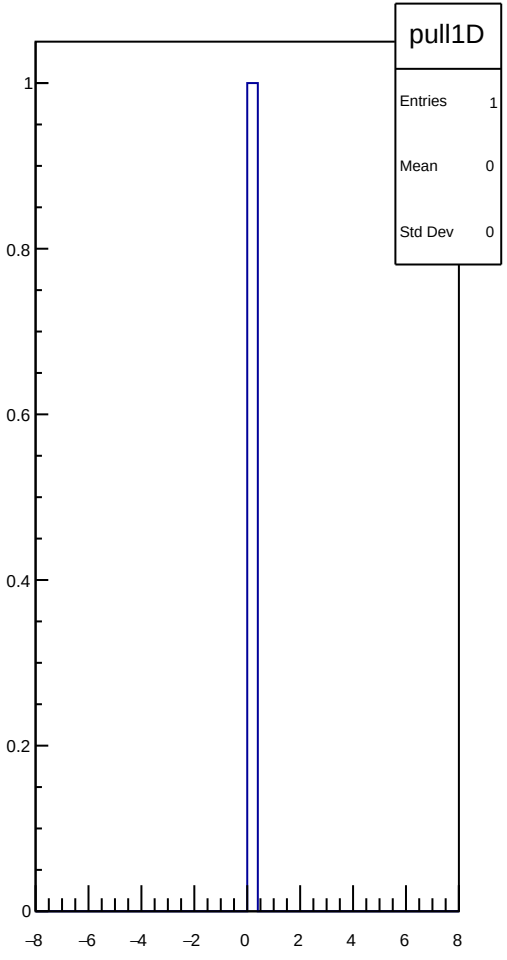

reg_asym_sam_48_dd_rms vs run
χ² / ndf 0 / 0
p0 82.06 ± 0.5946
82.6
82.4
82.2
82
81.8
81.6
81.4
5576. 0

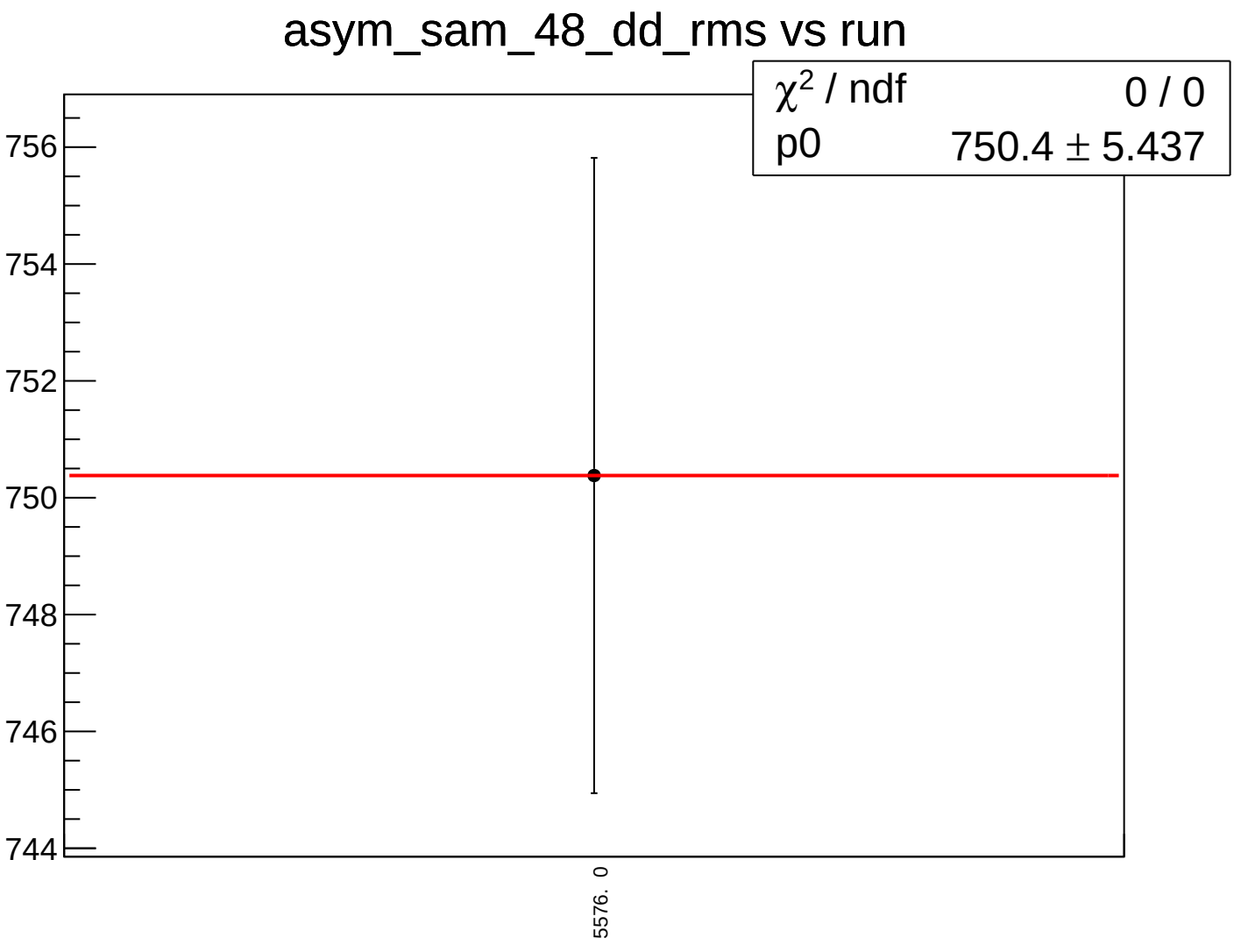

asym_sam_48_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −4640 ± 7643
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

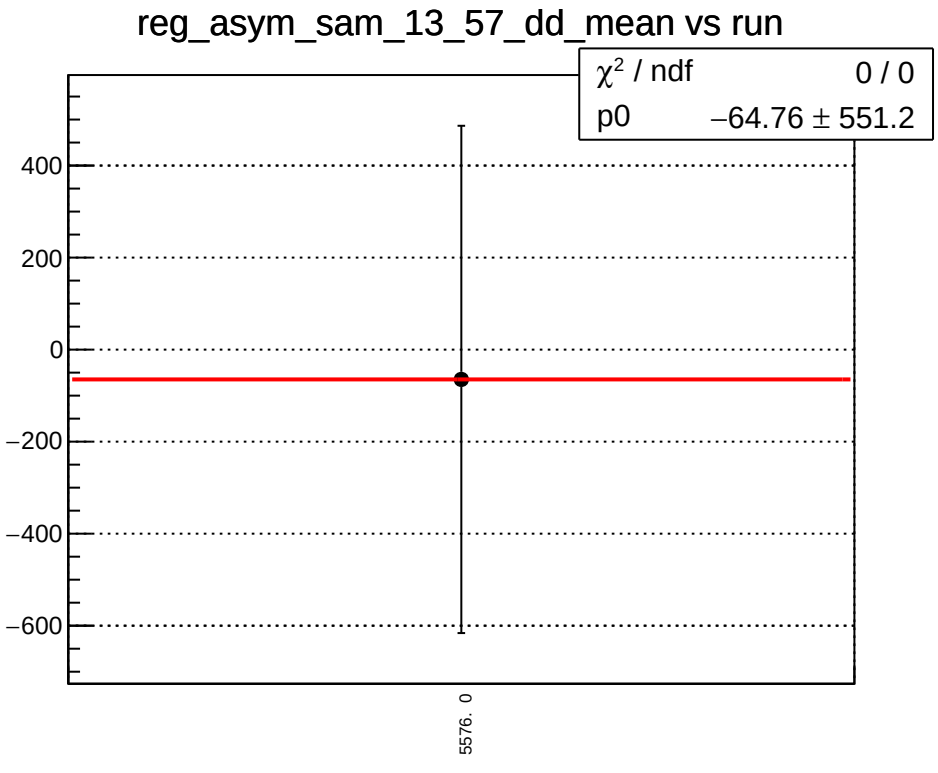

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

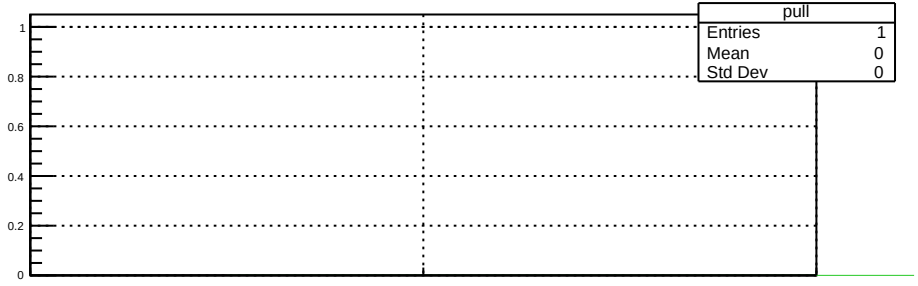

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4.426e−28 / 0
p0 745.9 ± 5.404
752
750
748
746
744
742
740
5576. 0

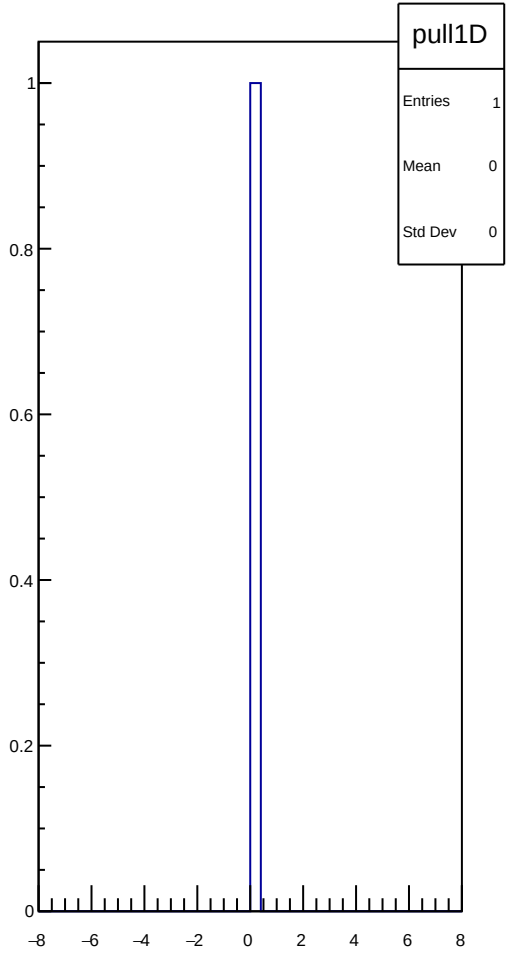

asym_sam_48_dd_mean vs run
χ² / ndf 0 / 0
p0 5050 ± 7689
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

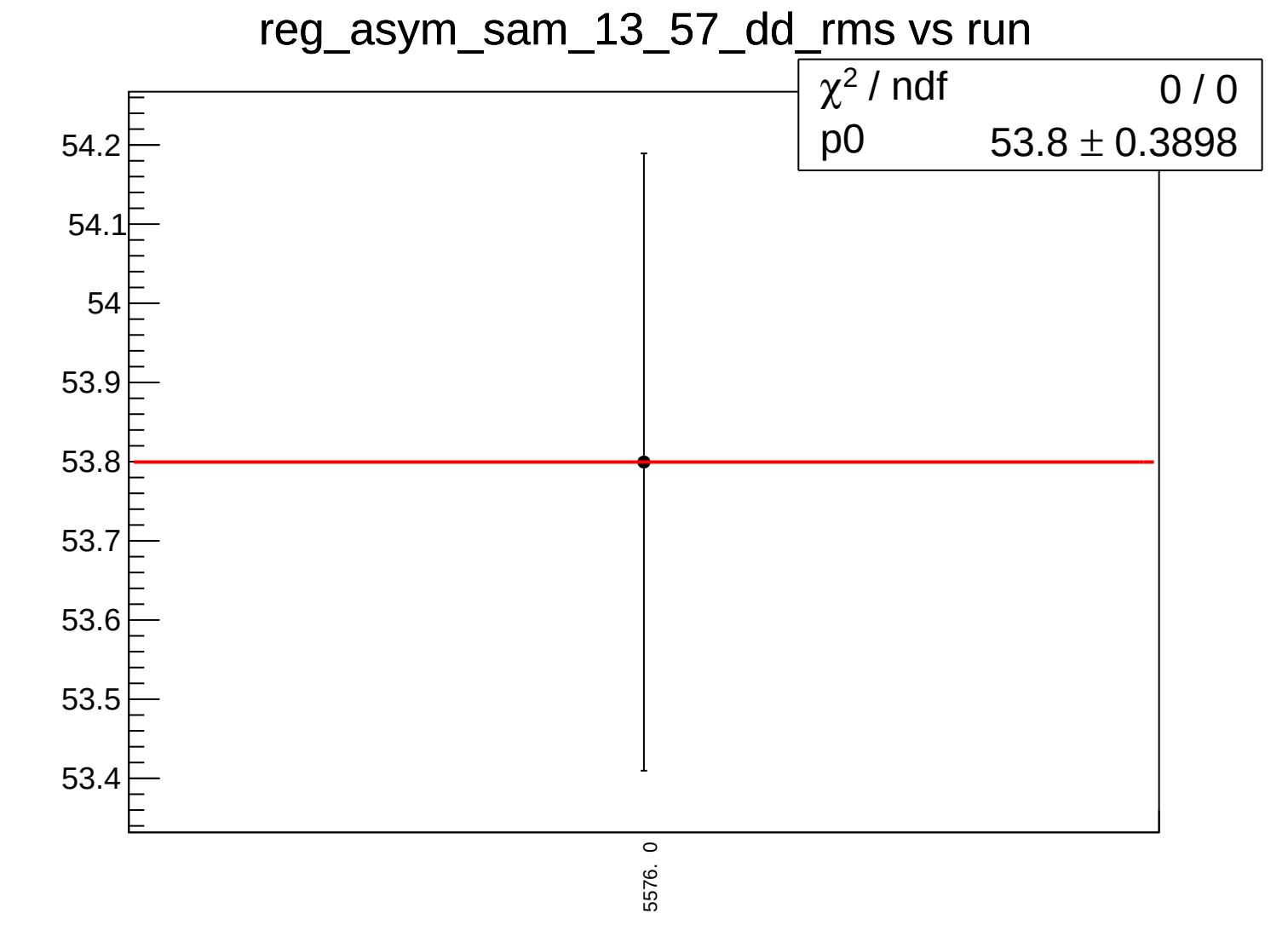

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

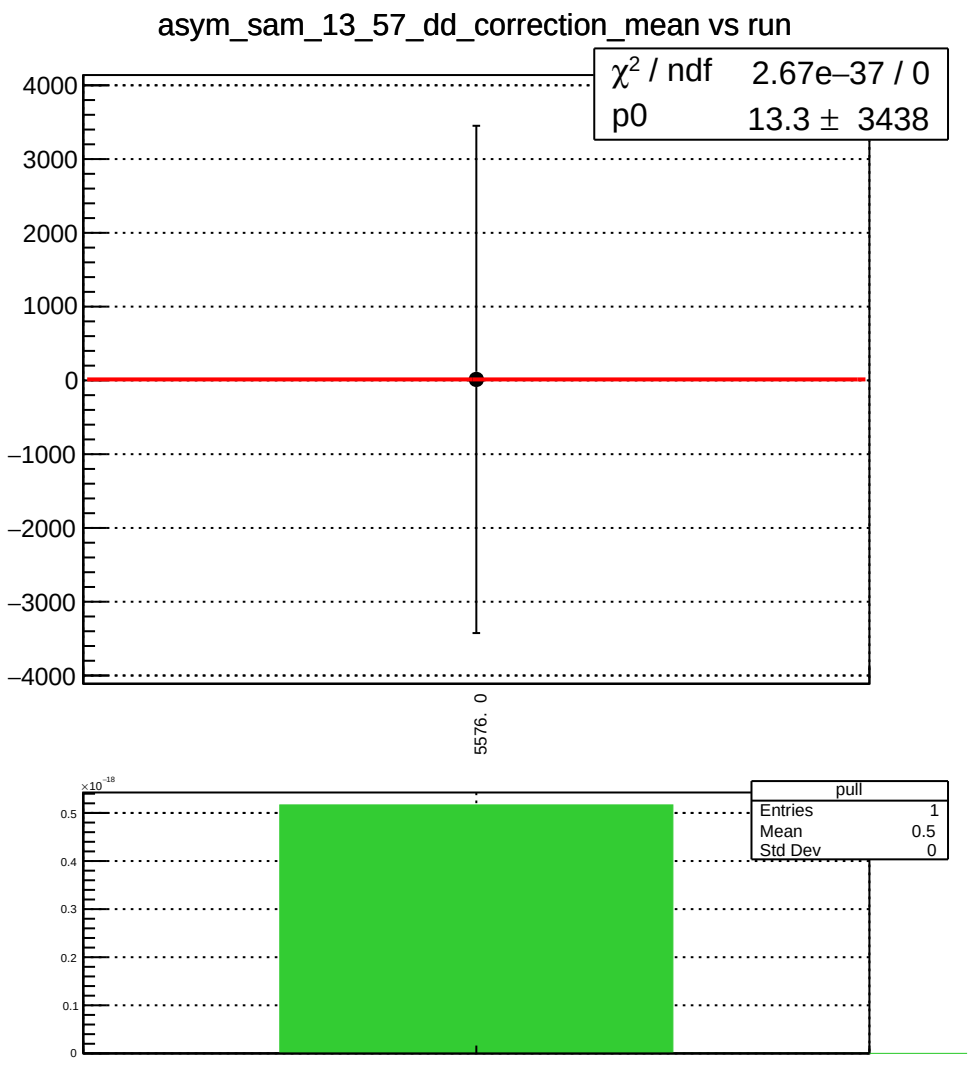

asym_sam_48_dd_rms vs run
χ² / ndf 0 / 0
p0 750.4 ± 5.437
756
754
752
750
748
746
744
5576. 0

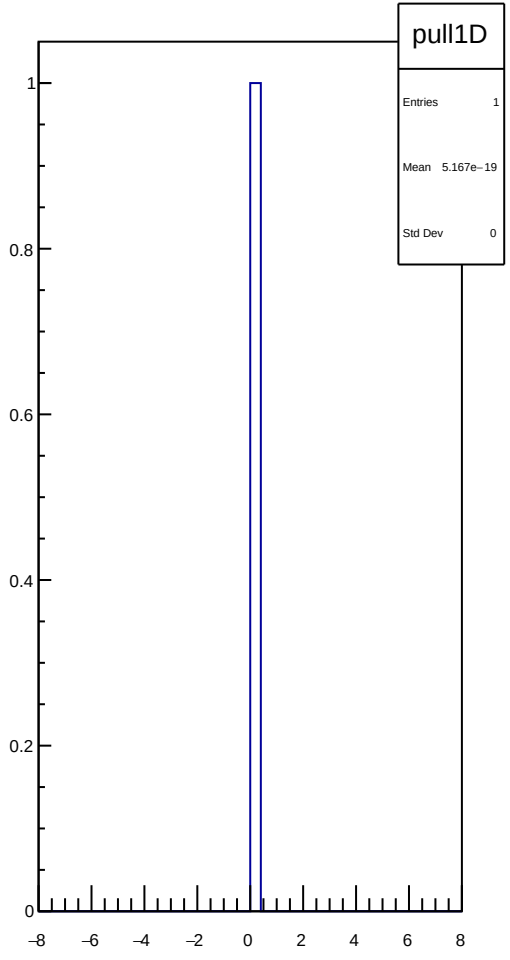

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 0 / 0
p0 −64.76 ± 551.2
400
200
0
−200
−400
−600
5576. 0

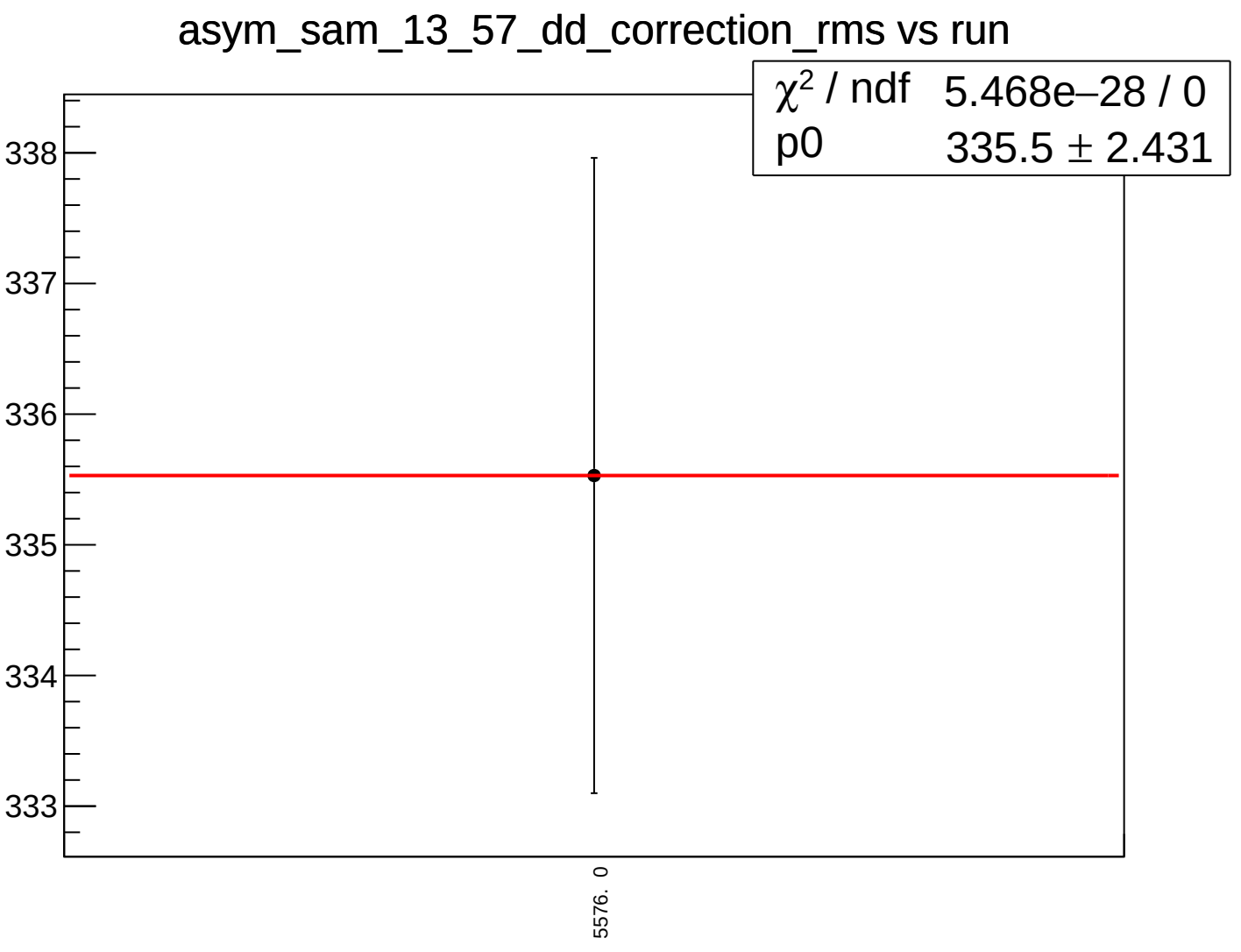

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

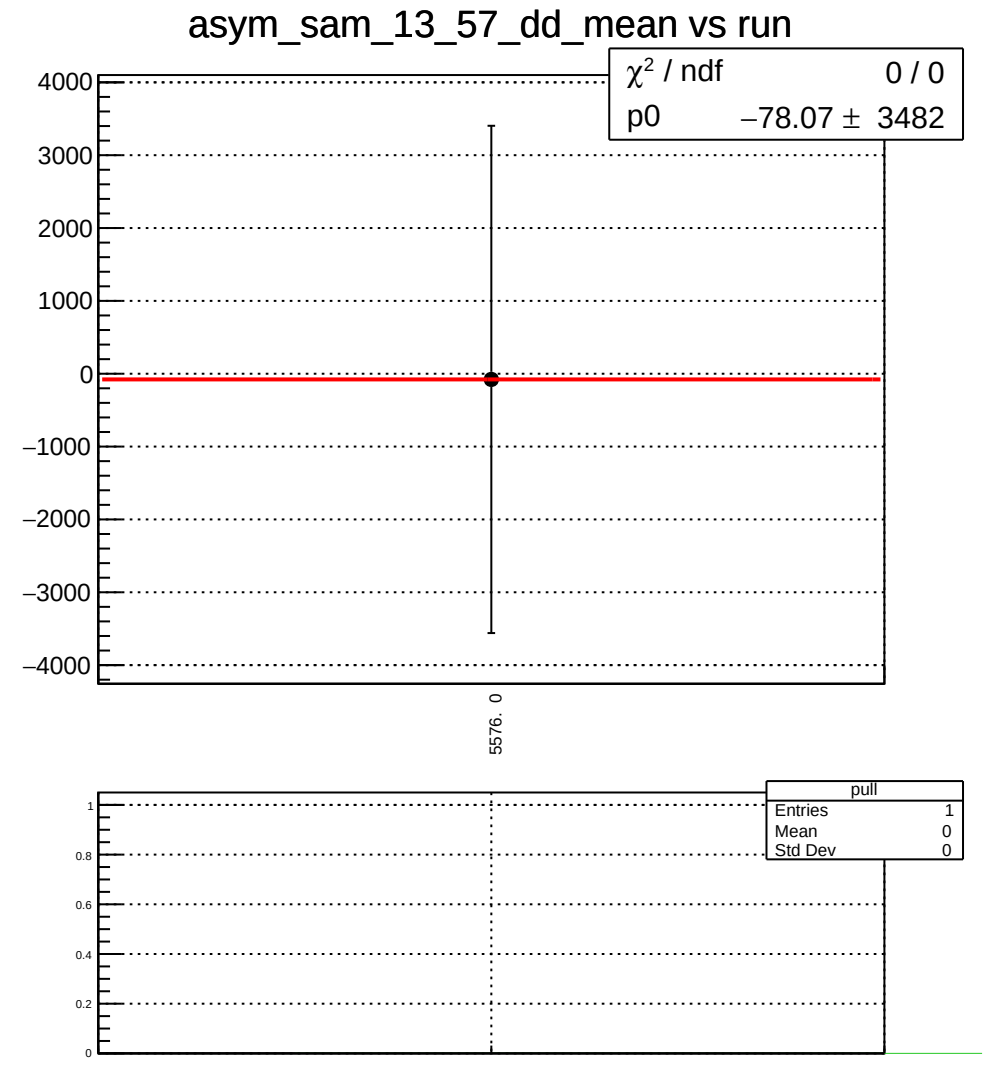

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

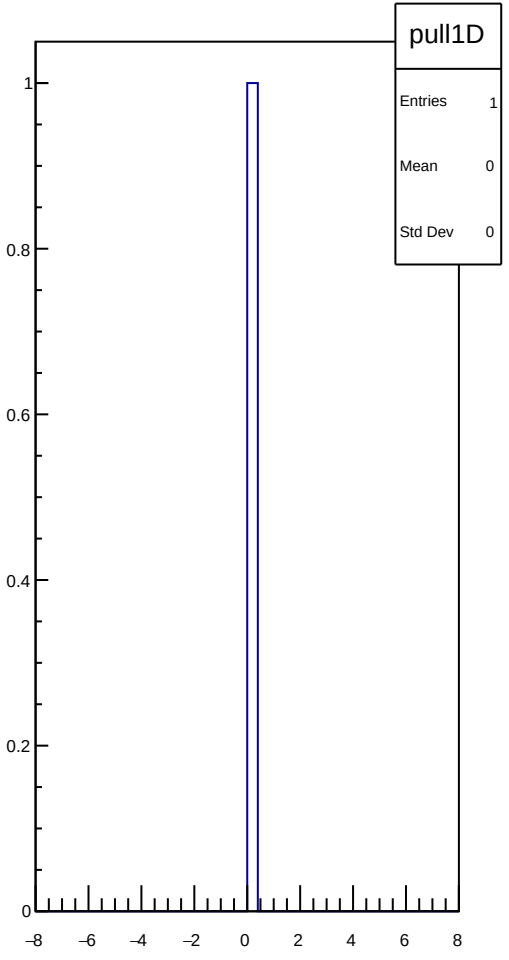

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 0 / 0
p0 53.8 ± 0.3898
54.2
54.1
54
53.9
53.8
53.7
53.6
53.5
53.4
5576. 0

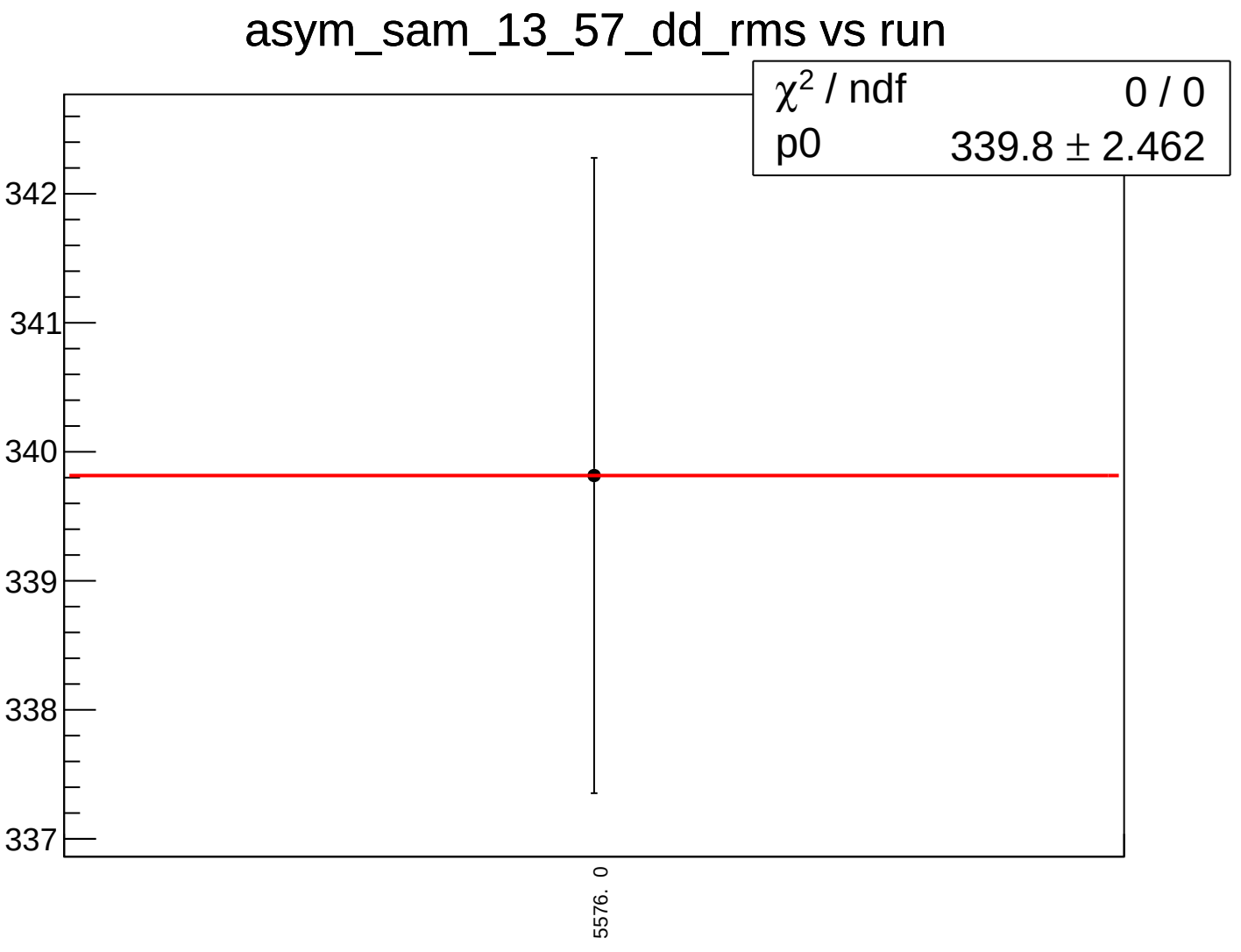

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 2.67e−37 / 0
p0 13.3 ± 3438
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5576. 0
×10⁻¹⁸
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 1
Mean 0.5
Std Dev 0

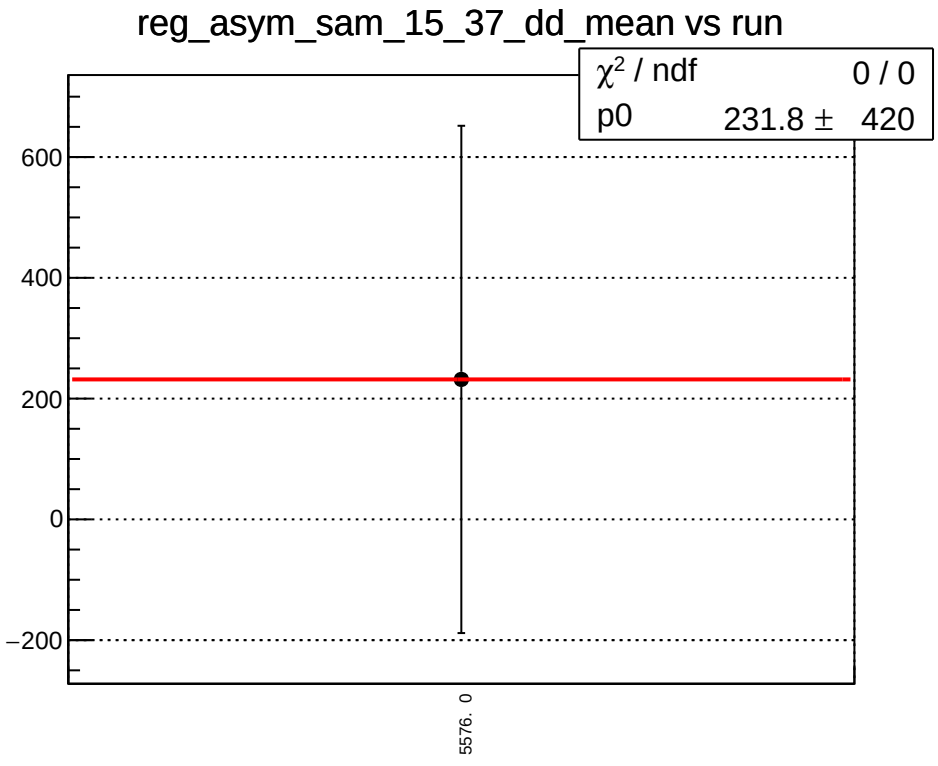

pull1D
Entries 1
Mean 5.167e−19
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

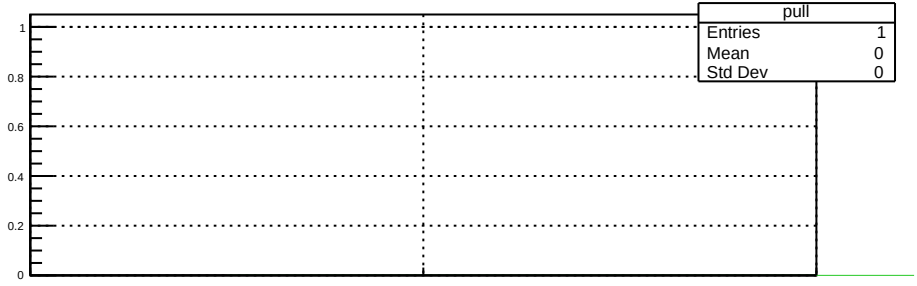

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 5.468e–28 / 0
p0 335.5 ± 2.431
338
337
336
335
334
333
5576. 0

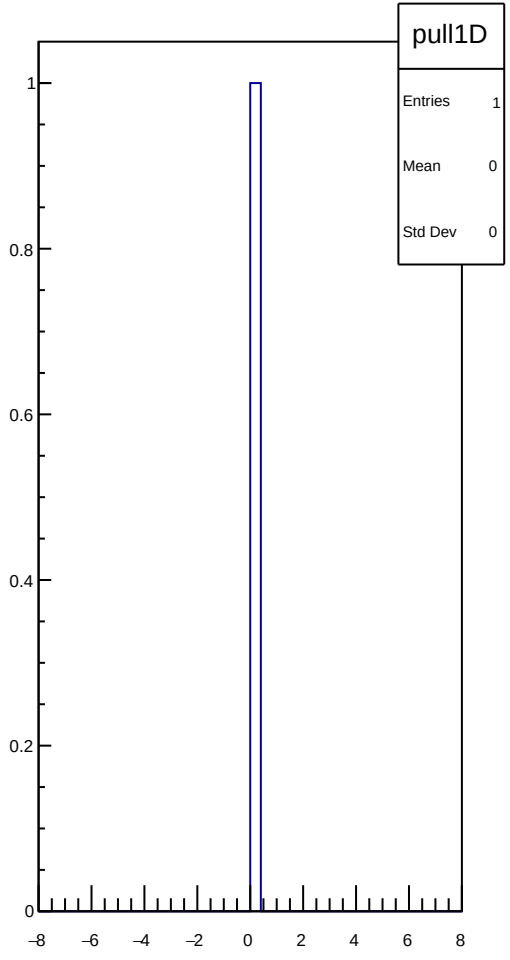

asym_sam_13_57_dd_mean vs run
χ² / ndf 0 / 0
p0 −78.07 ± 3482
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_sam_13_57_dd_rms vs run
χ² / ndf 0 / 0
p0 339.8 ± 2.462
342
341
340
339
338
337
5576. 0


reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 0 / 0
p0 231.8 ± 420
600
400
200
0
−200
5576. 0


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


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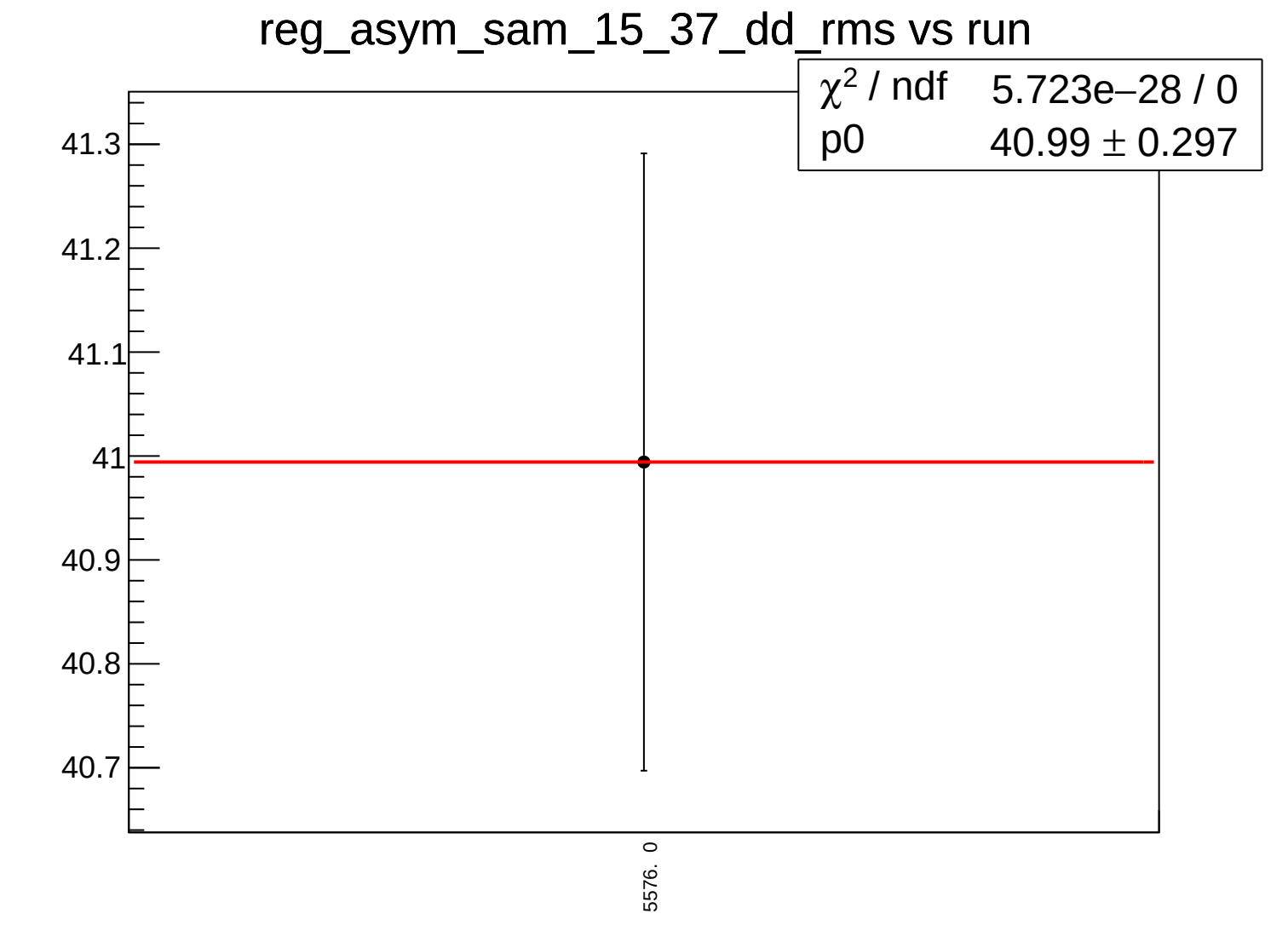
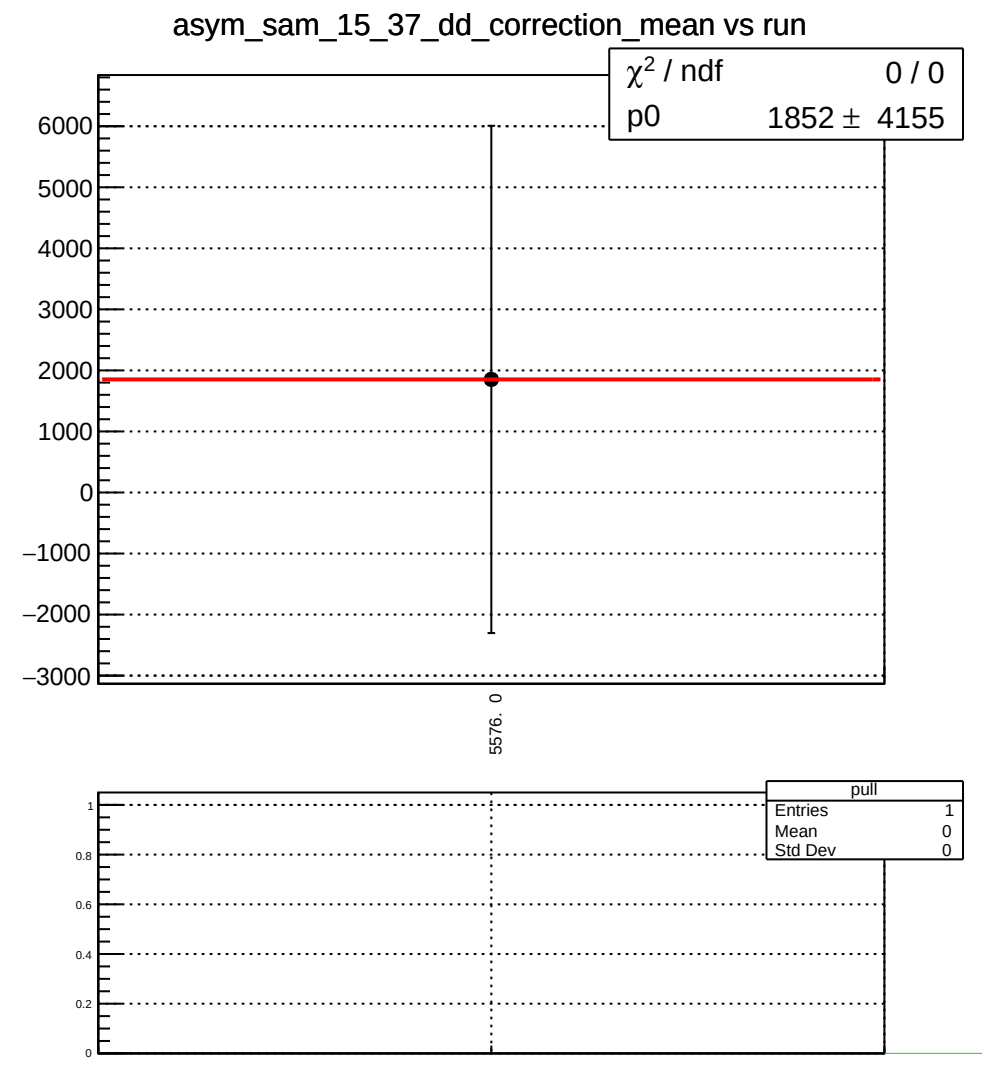
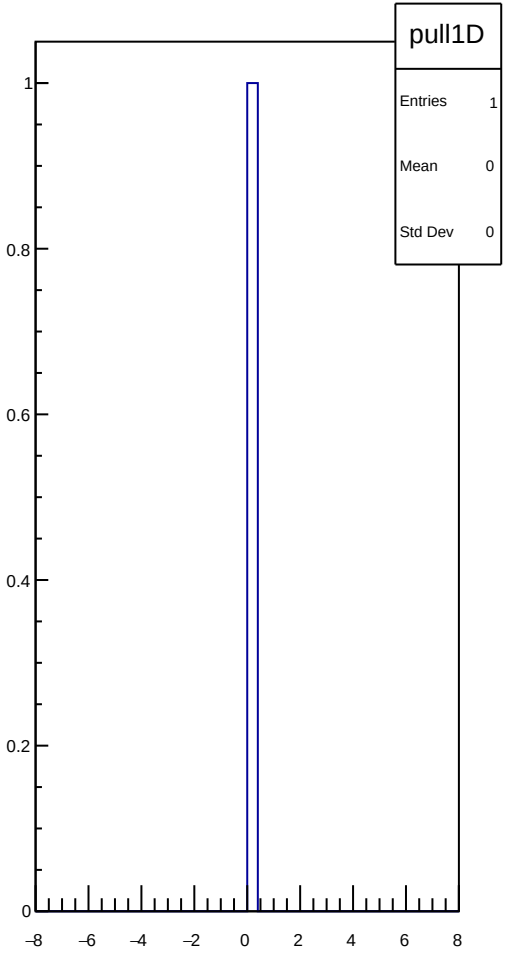
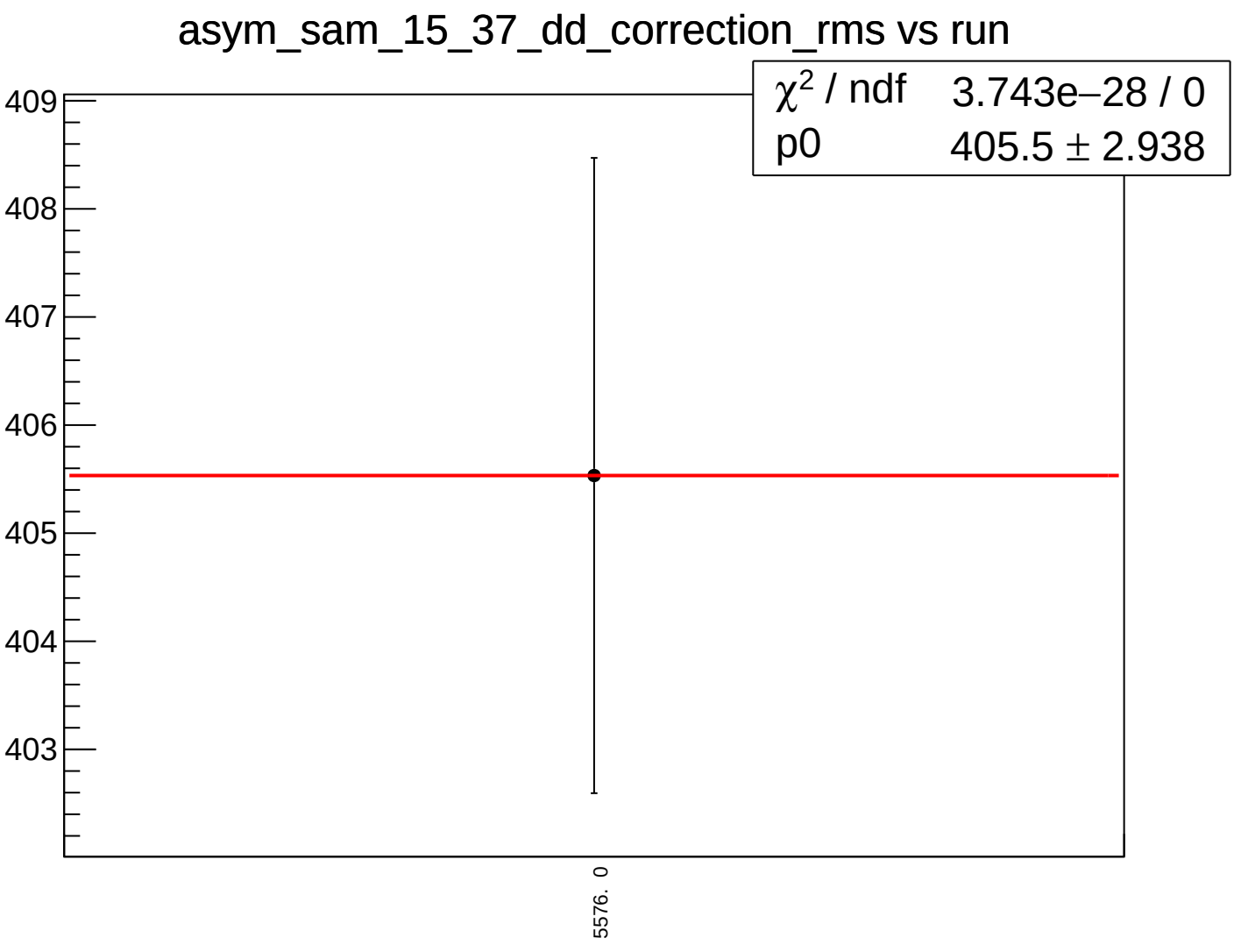
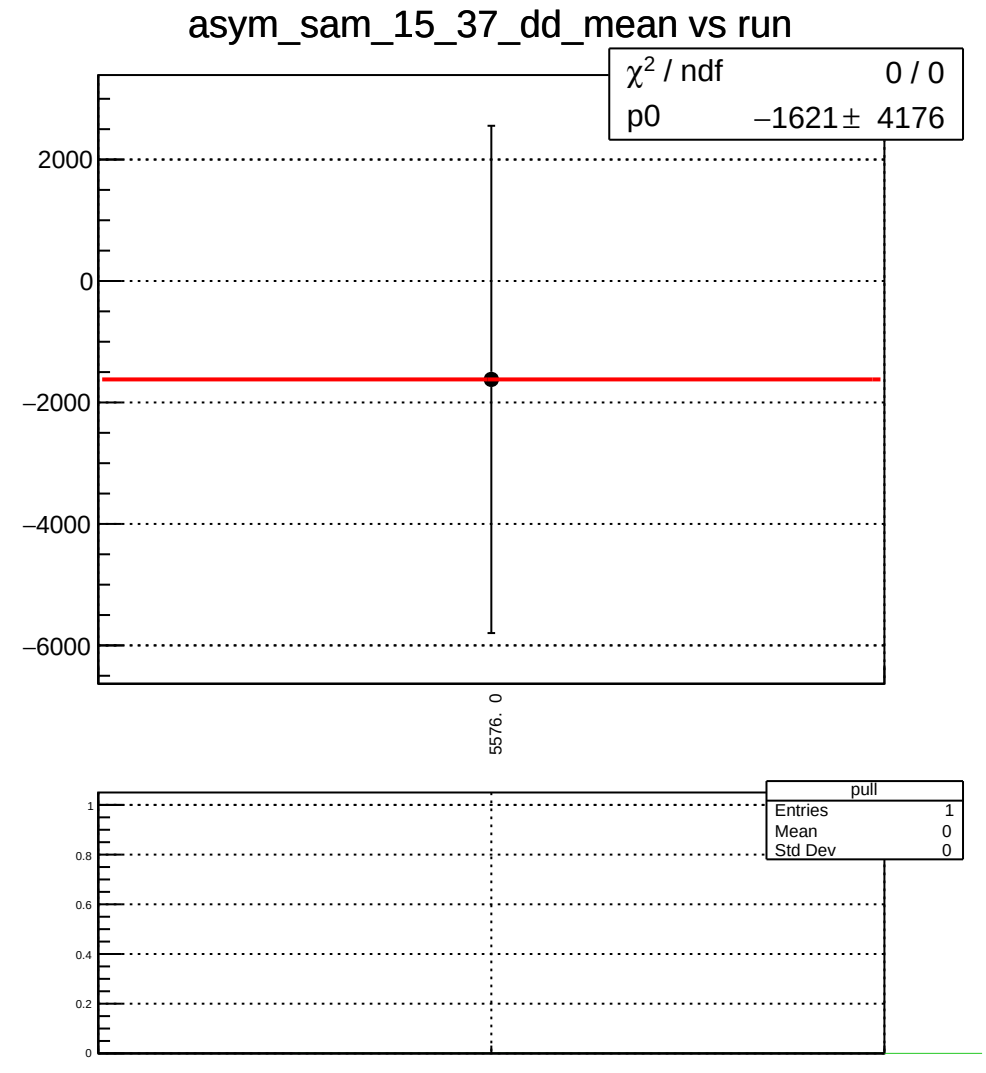
0
2
4
6
8

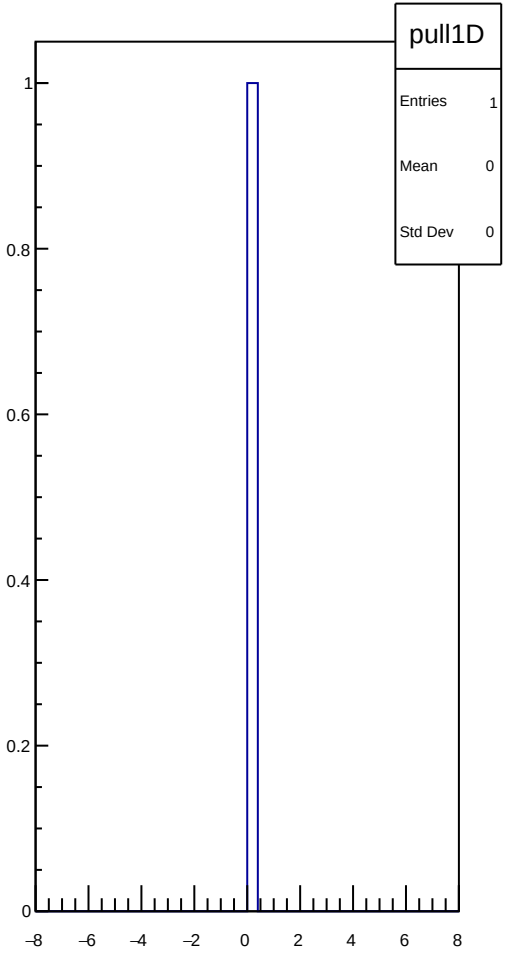

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 5.723e−28 / 0
p0 40.99 ± 0.297
41.3
41.2
41.1
41
40.9
40.8
40.7
5576. 0

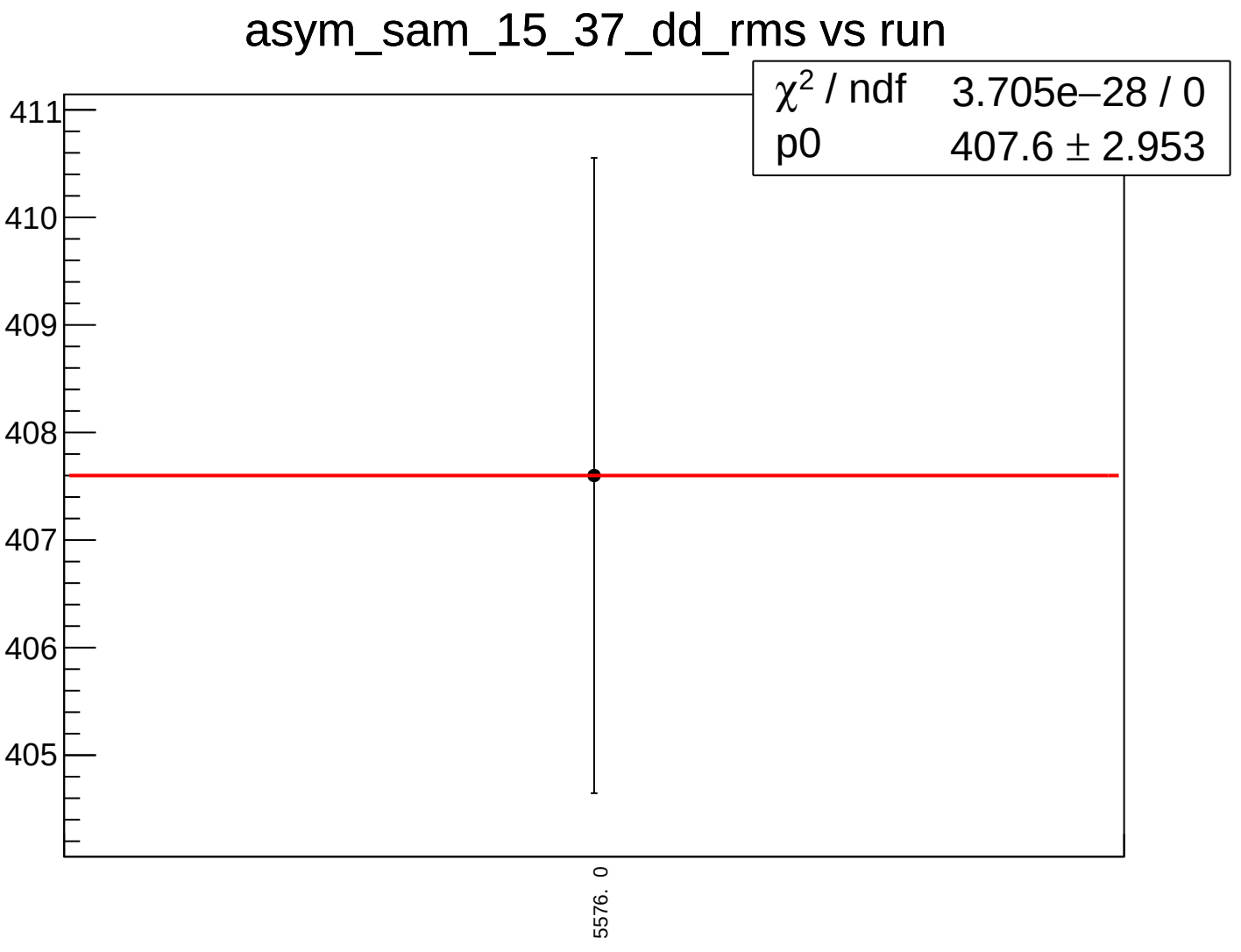

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1852 ± 4155
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

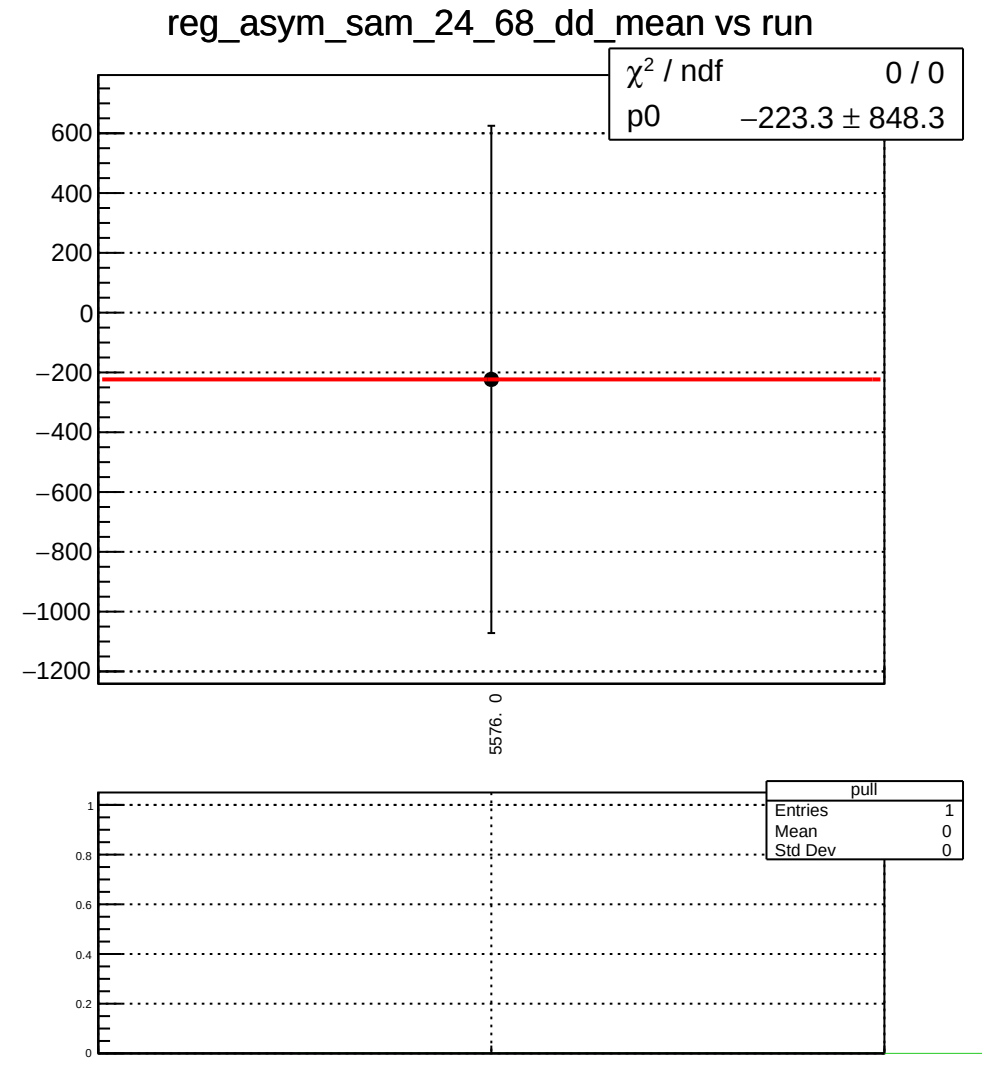

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

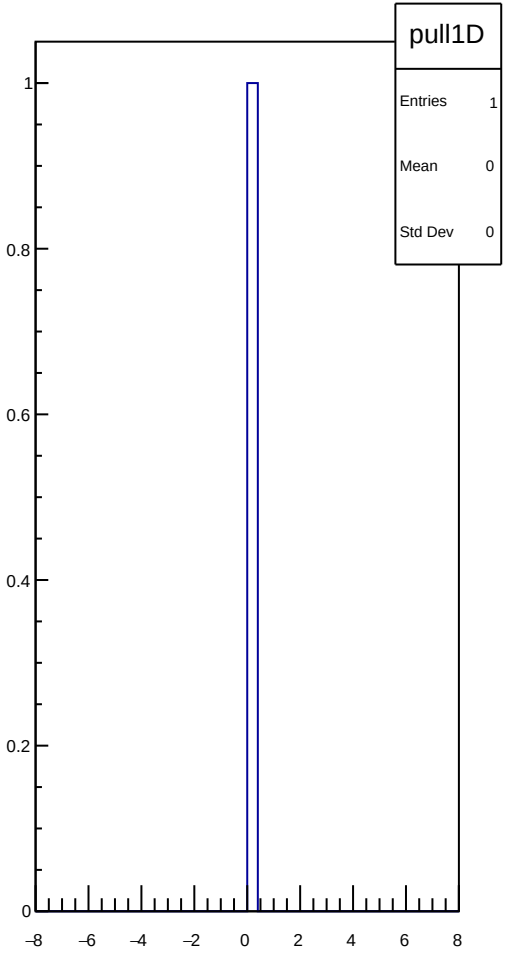

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3.743e−28 / 0
p0 405.5 ± 2.938
409
408
407
406
405
404
403
5576. 0

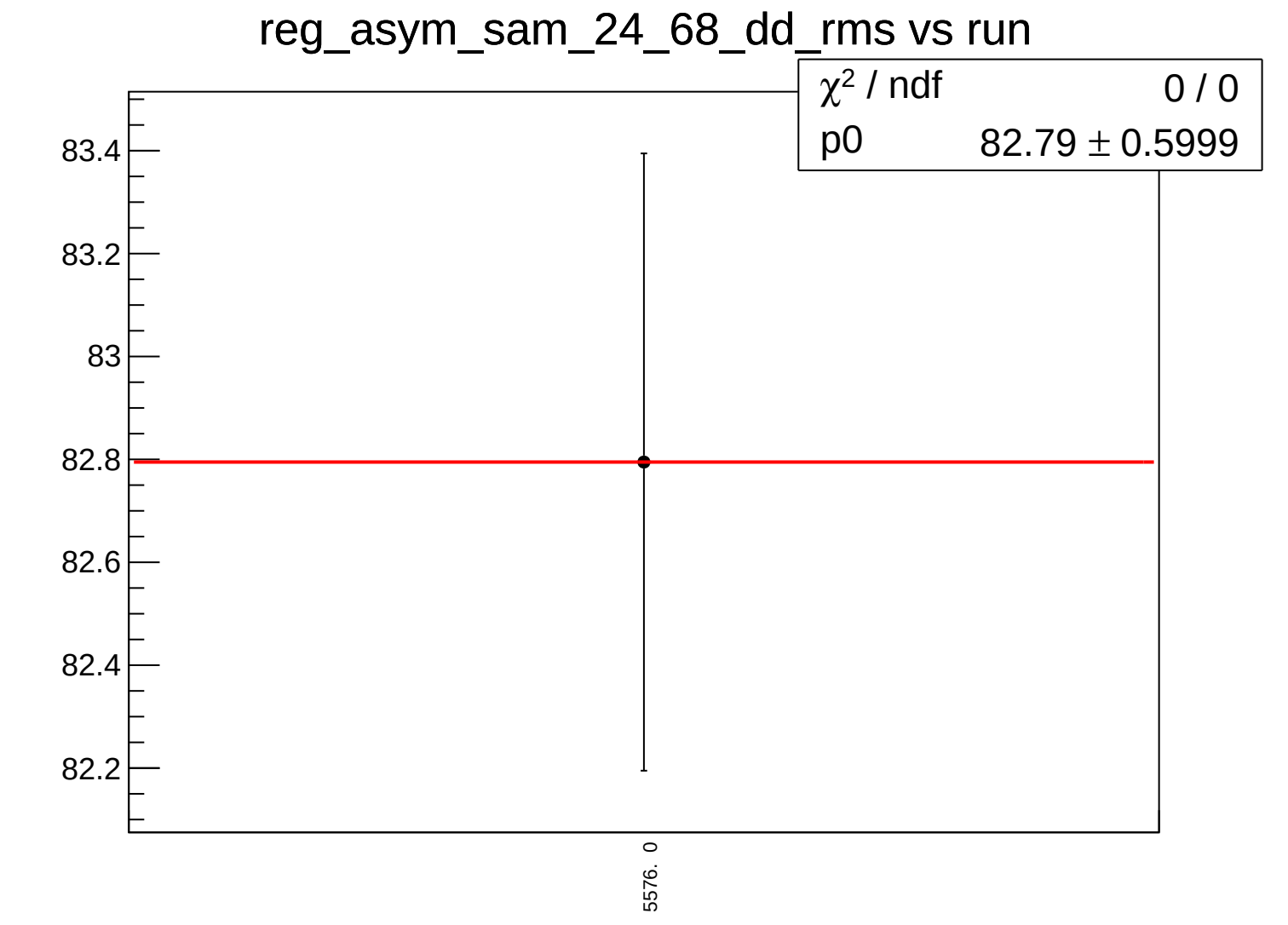

asym_sam_15_37_dd_mean vs run
χ² / ndf 0 / 0
p0 −1621 ± 4176
2000
0
−2000
−4000
−6000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

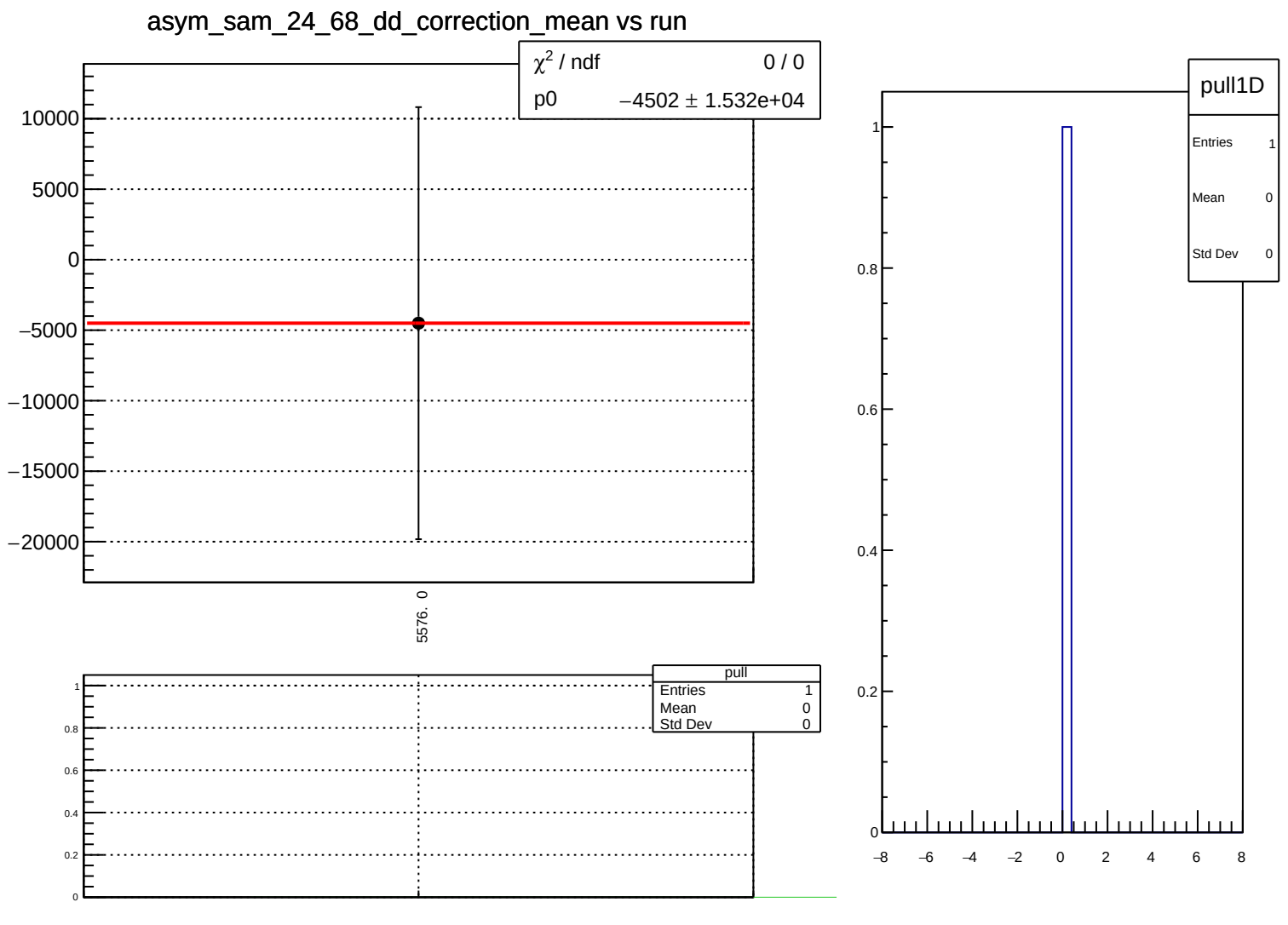

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

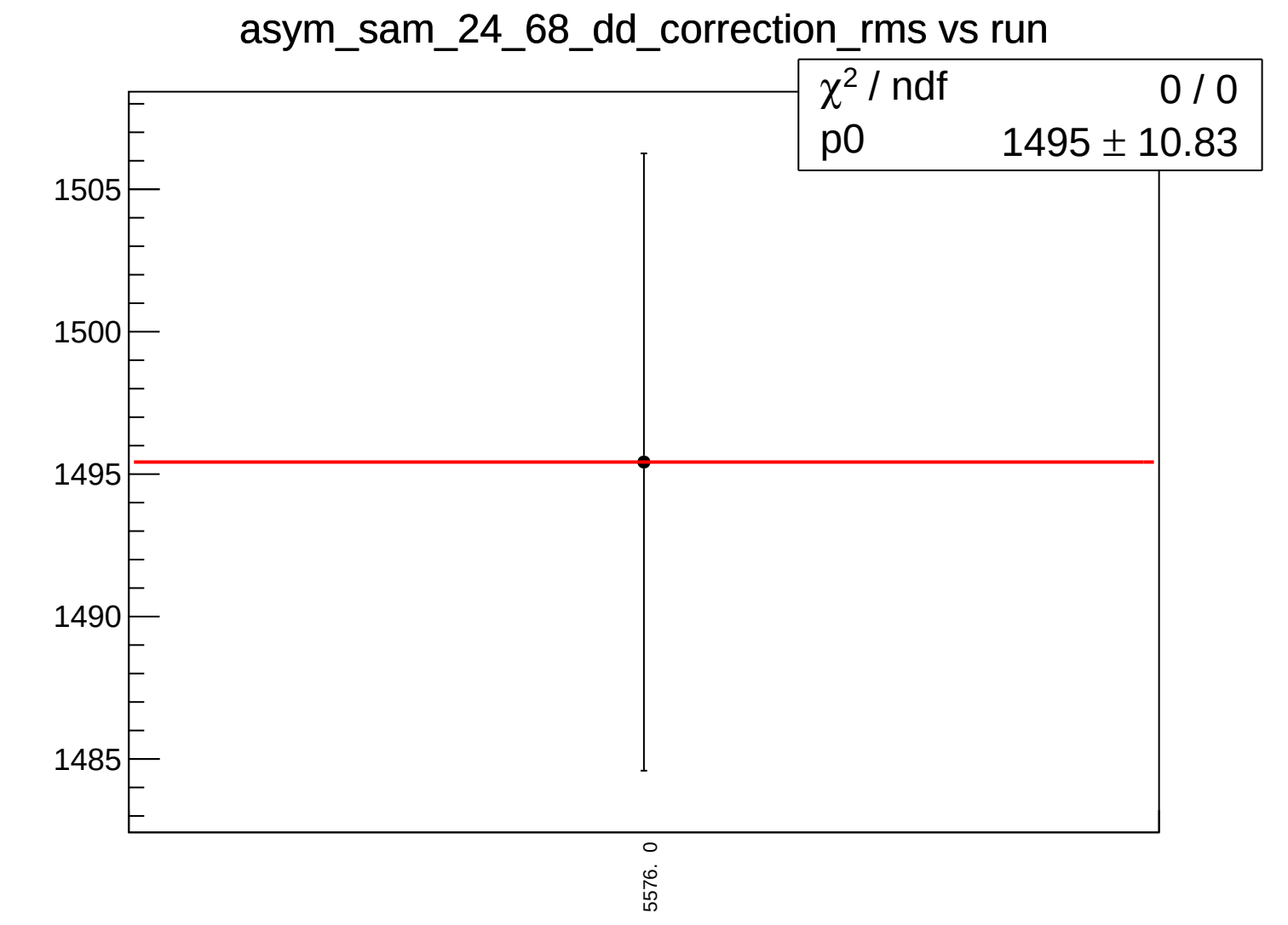

asym_sam_15_37_dd_rms vs run
χ² / ndf 3.705e−28 / 0
p0 407.6 ± 2.953
411
410
409
408
407
406
405
5576. 0

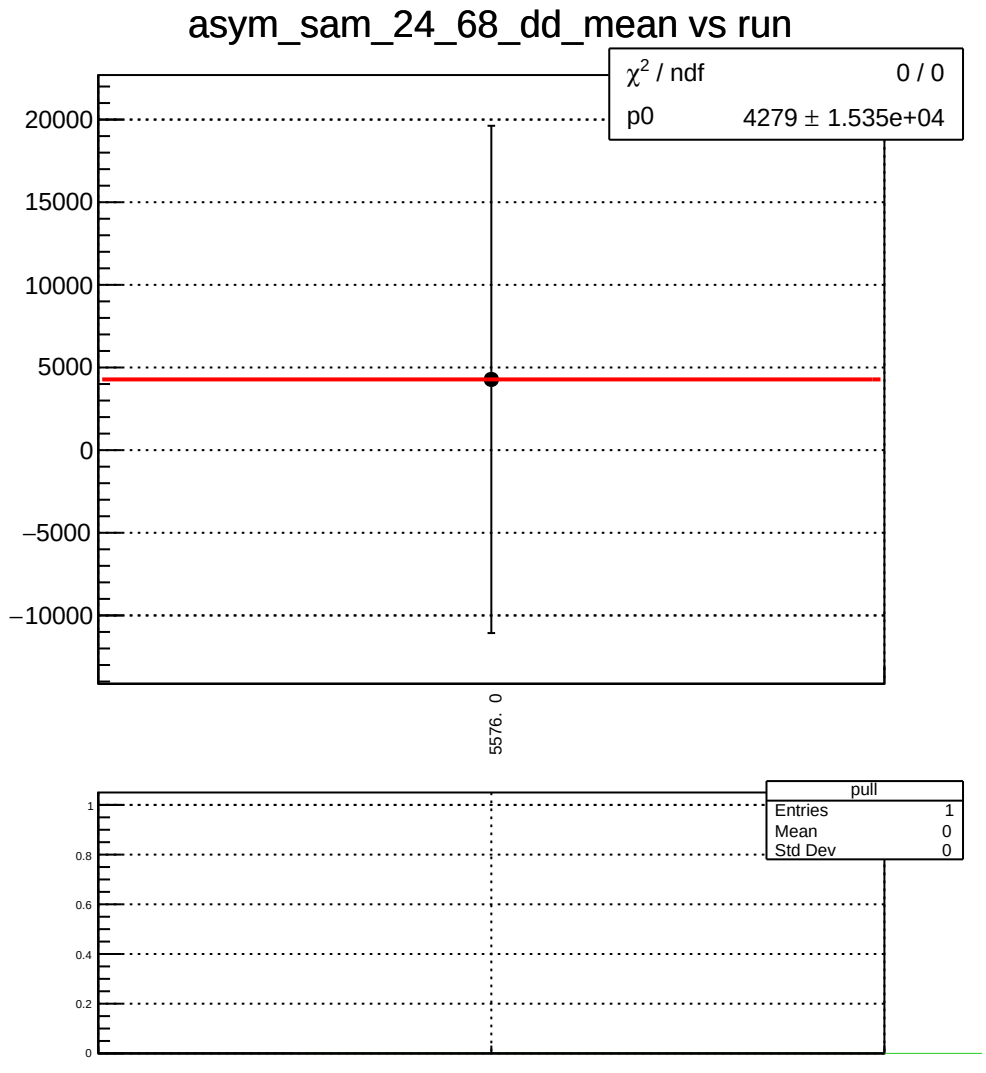

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 0 / 0
p0 −223.3 ± 848.3
600
400
200
0
−200
−400
−600
−800
−1000
−1200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

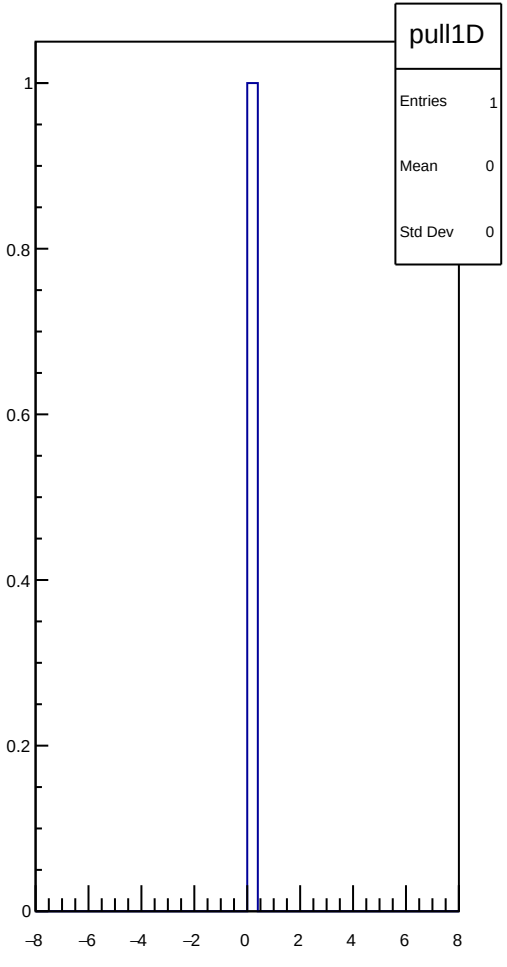

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

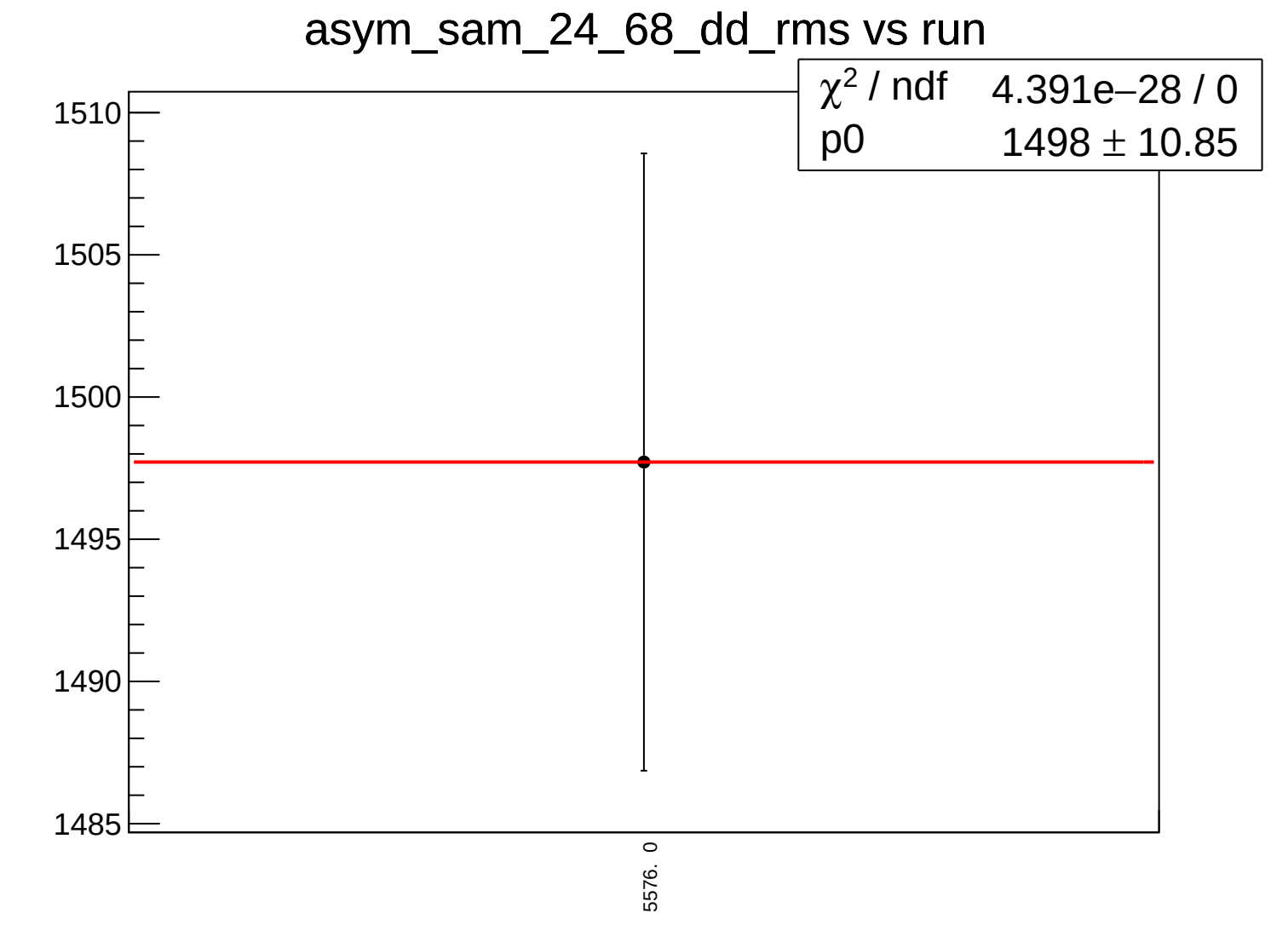

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 0 / 0
p0 82.79 ± 0.5999
83.4
83.2
83
82.8
82.6
82.4
82.2
5576. 0

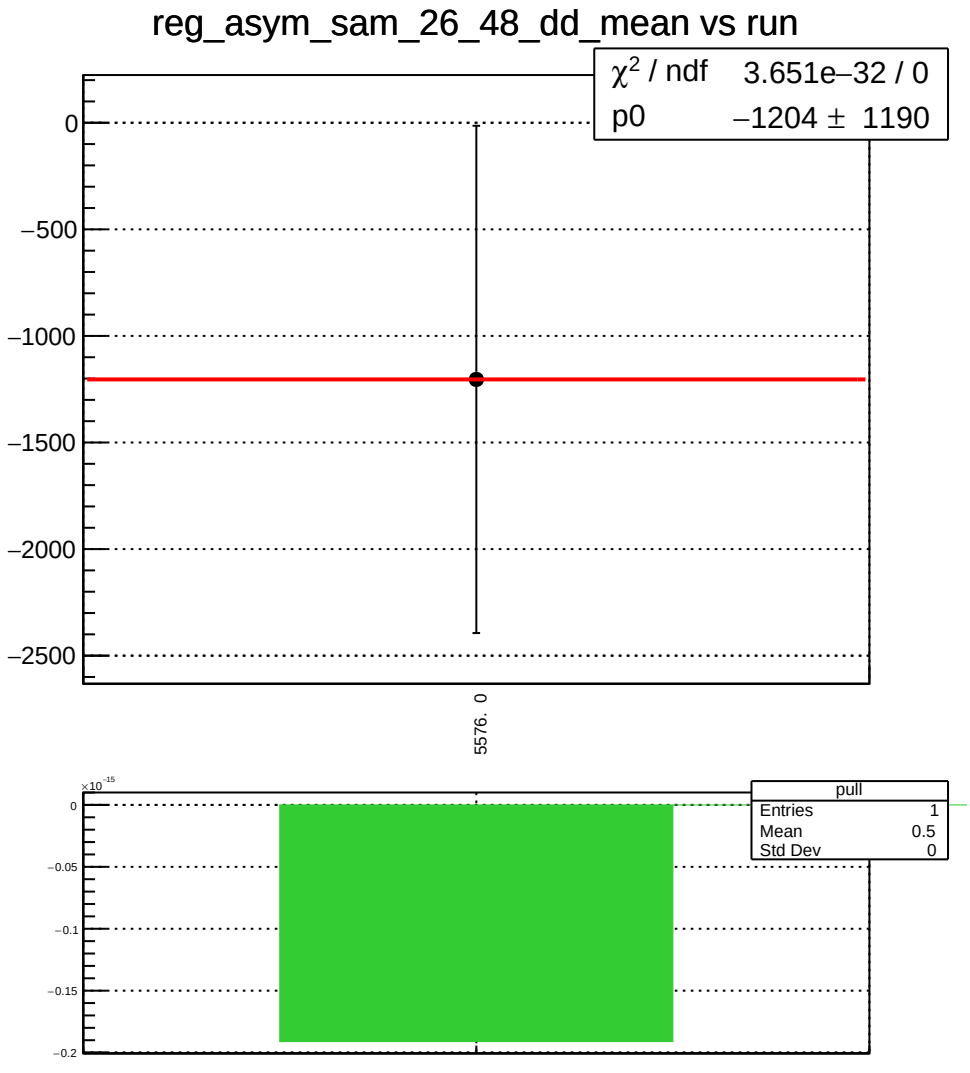

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 −4502 ± 1.532e+04
10000
5000
0
−5000
−10000
−15000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

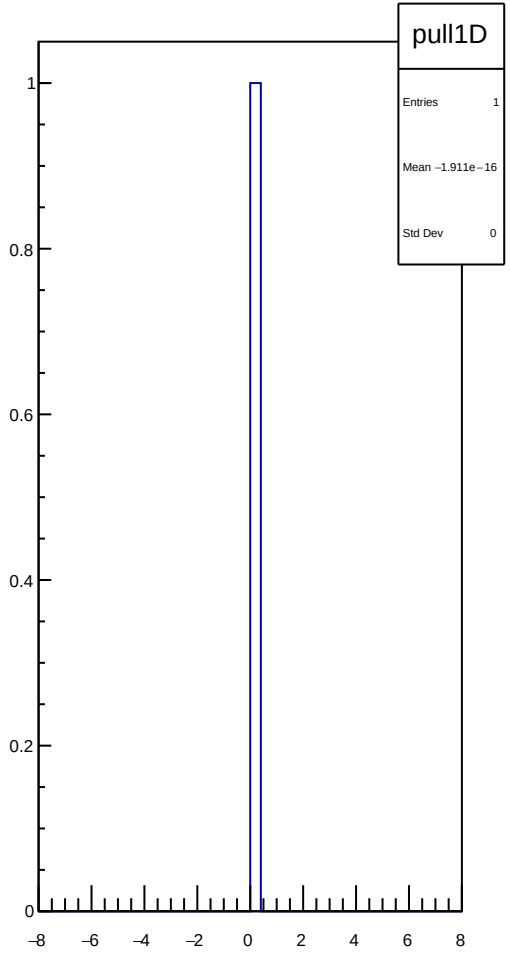

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 0 / 0
p0 1495 ± 10.83
1505
1500
1495
1490
1485
5576. 0

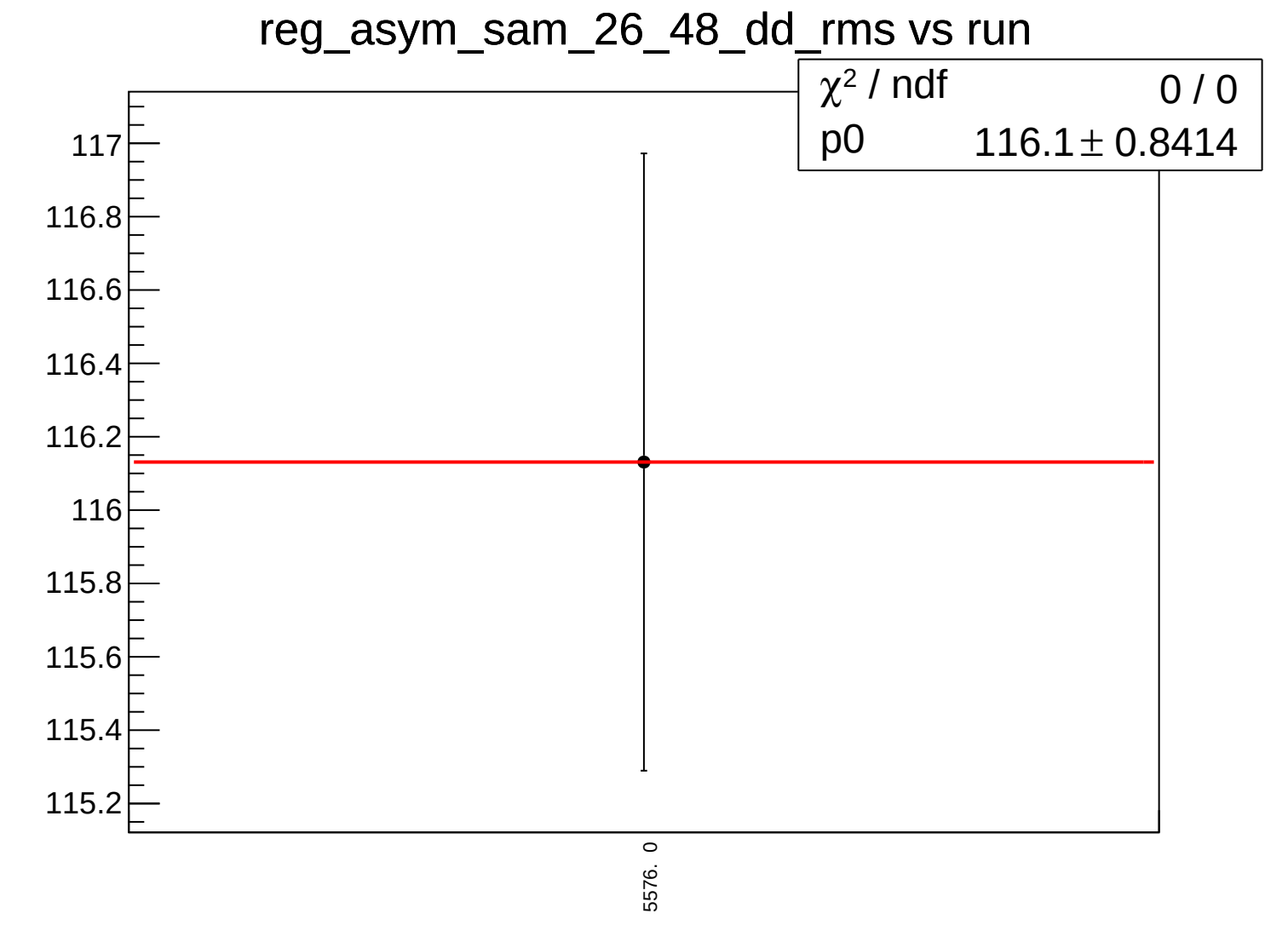

asym_sam_24_68_dd_mean vs run
χ² / ndf 0 / 0
p0 4279 ± 1.535e+04
20000
15000
10000
5000
0
−5000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

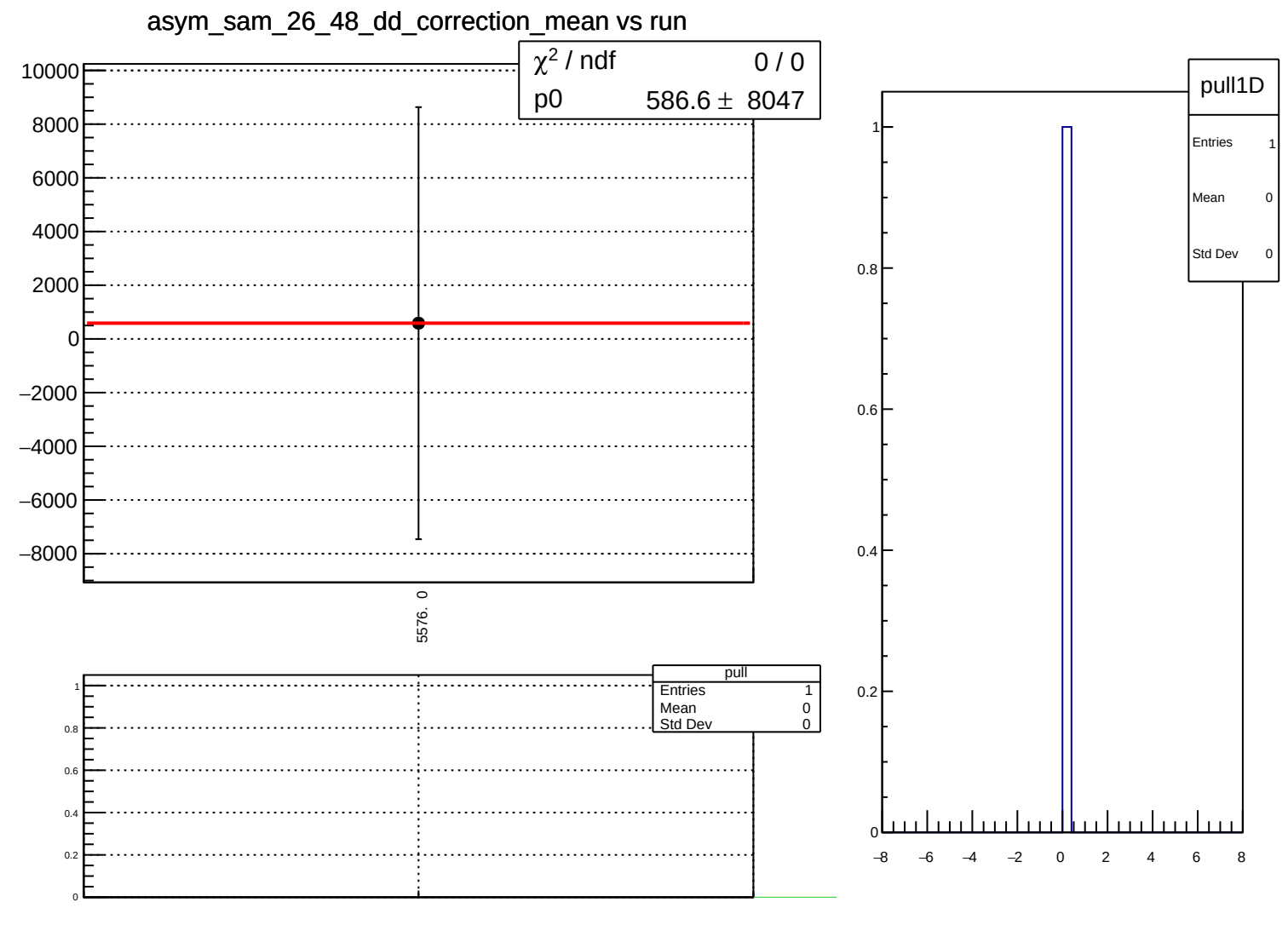

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

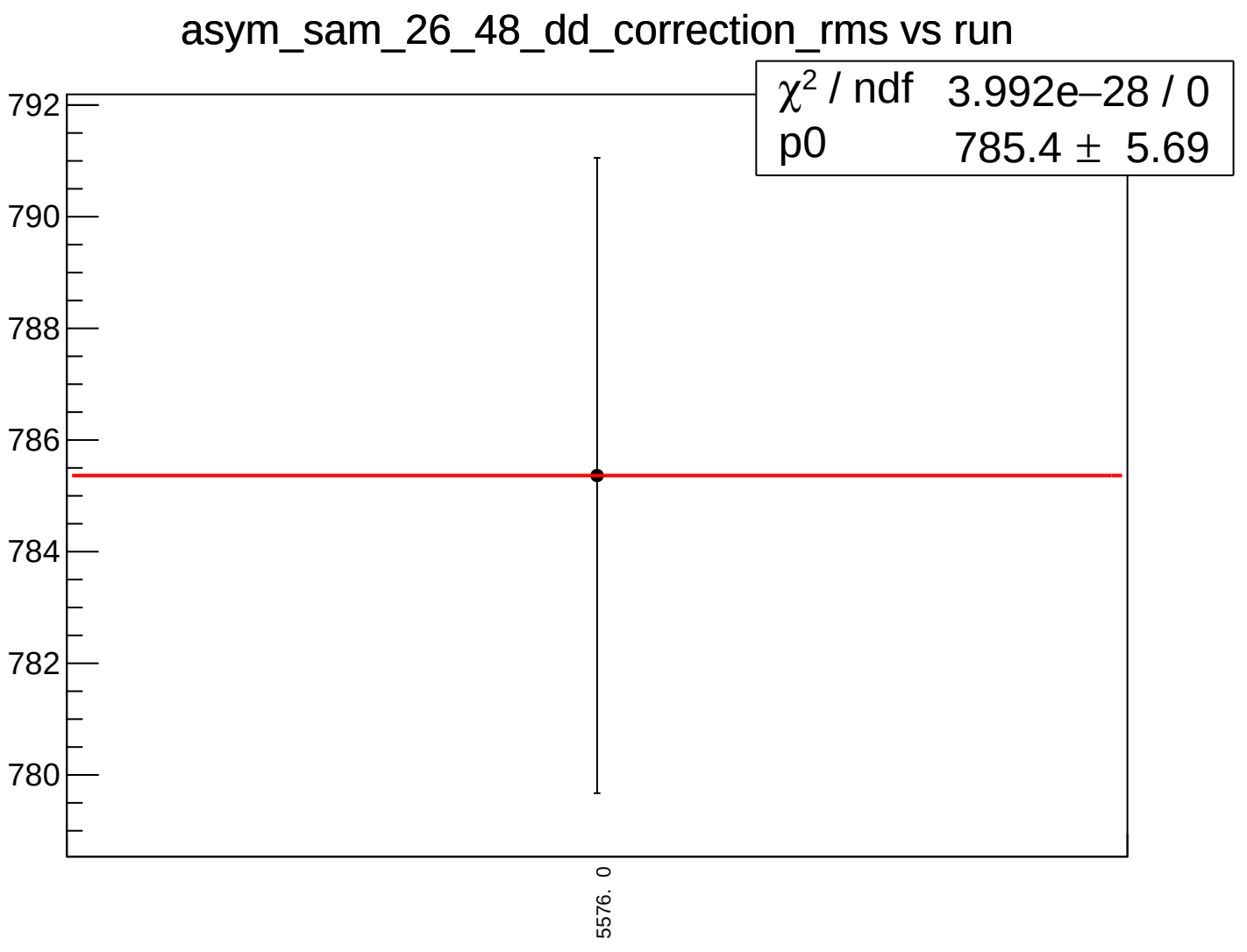

asym_sam_24_68_dd_rms vs run
χ² / ndf 4.391e−28 / 0
p0 1498 ± 10.85
1510
1505
1500
1495
1490
1485
5576. 0

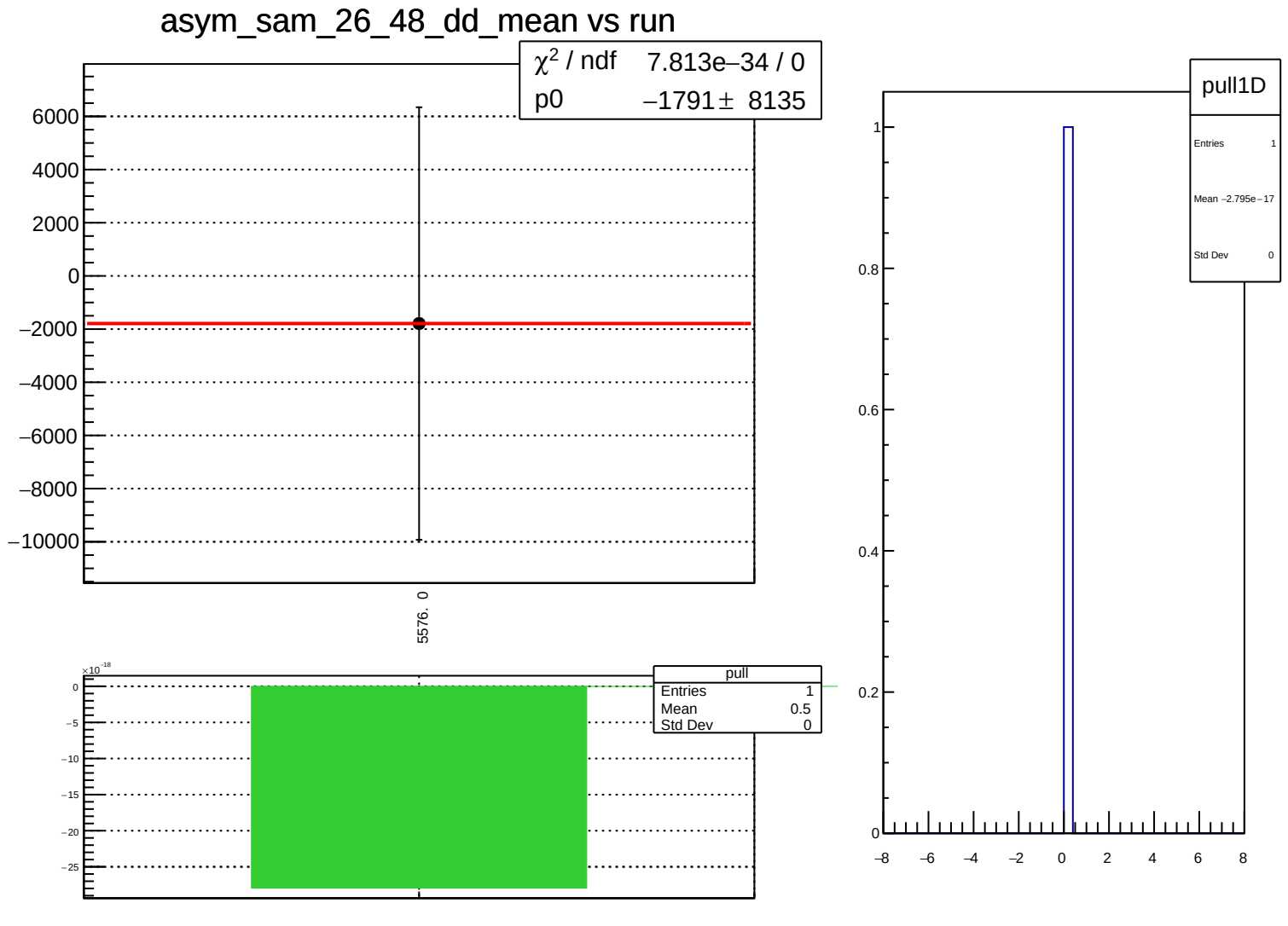

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 3.651e−32 / 0
p0 −1204 ± 1190
0
−500
−1000
−1500
−2000
−2500
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0

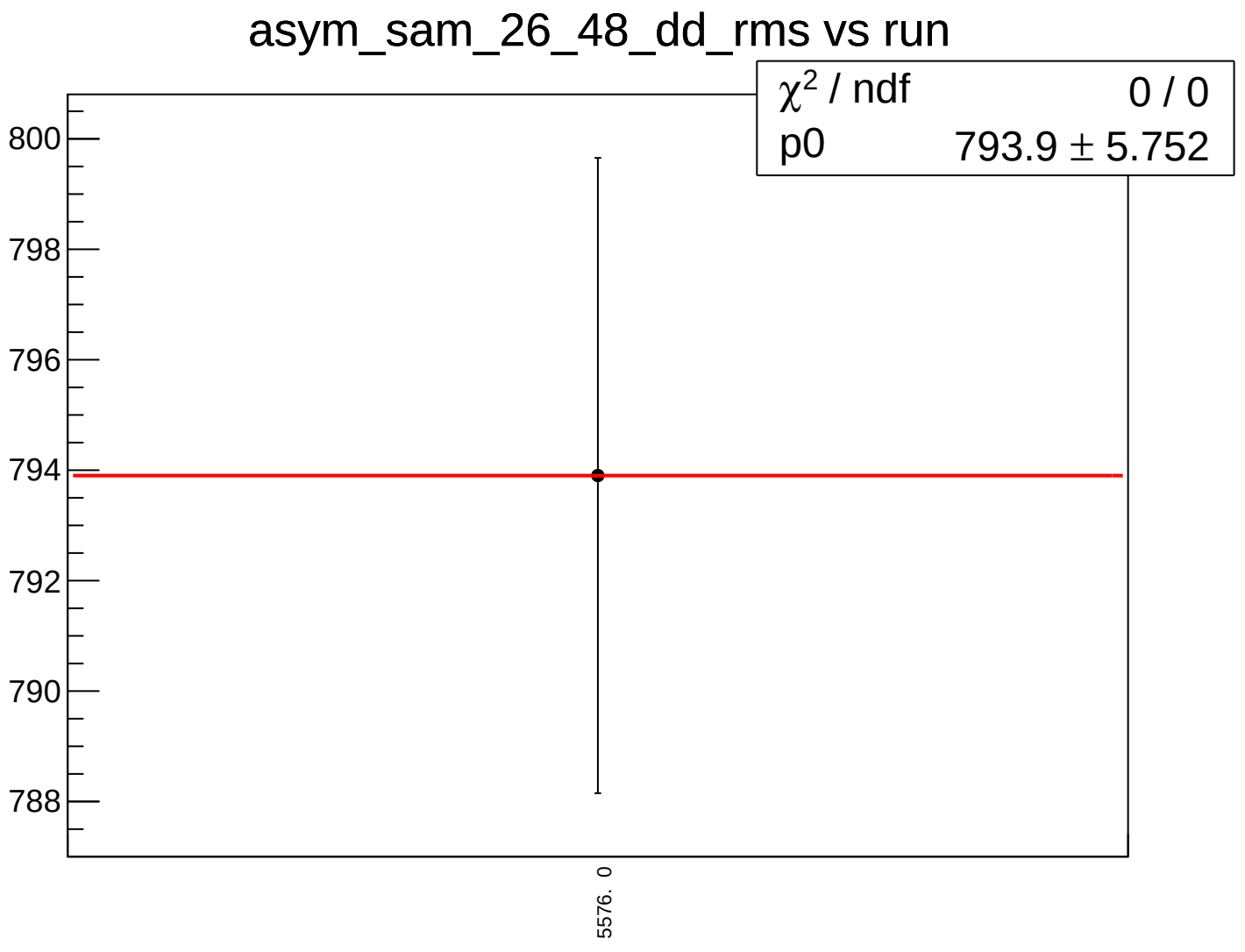

pull1D
Entries 1
Mean −1.911e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

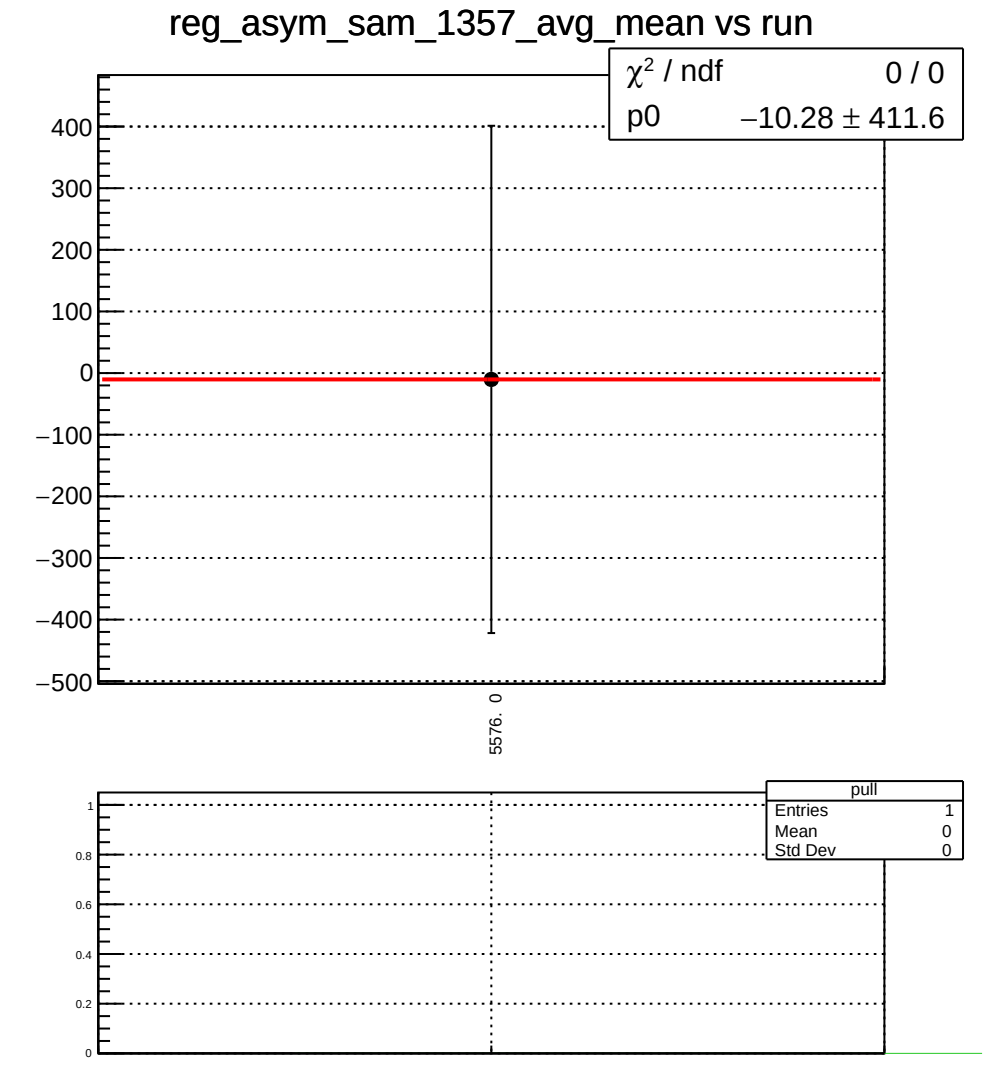

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 0 / 0
p0 116.1 ± 0.8414
117
116.8
116.6
116.4
116.2
116
115.8
115.6
115.4
115.2
5576. 0

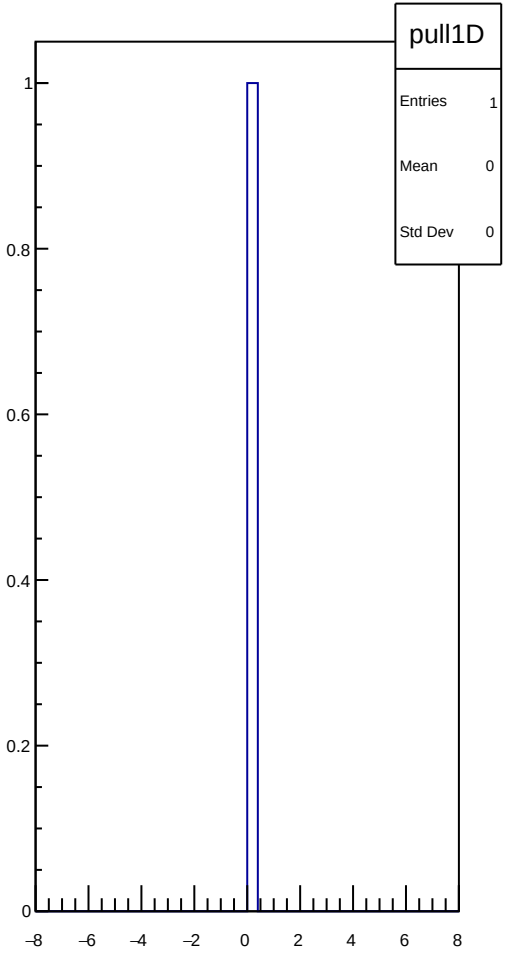

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 586.6 ± 8047
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

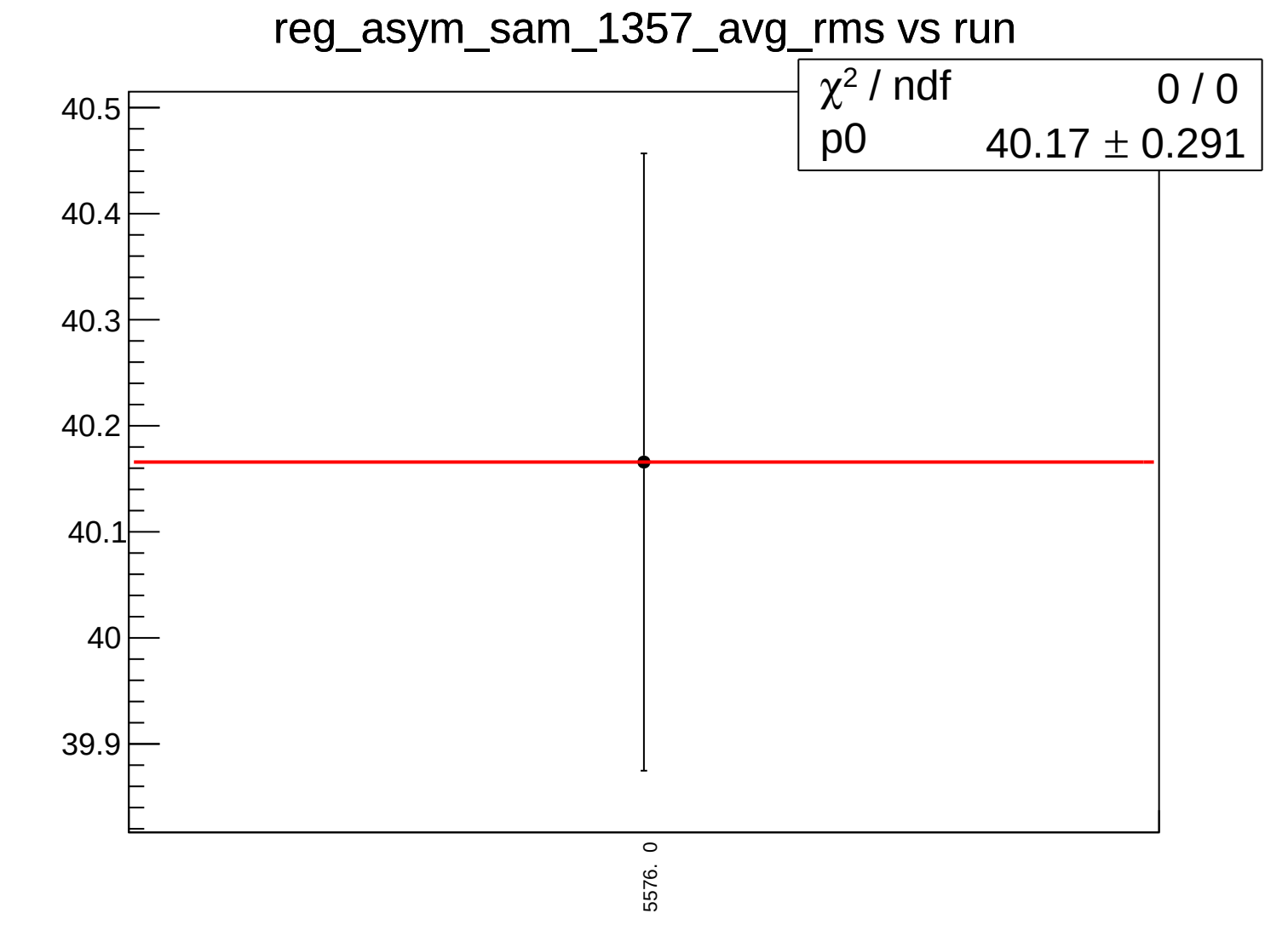

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3.992e–28 / 0
p0 785.4 ± 5.69
792
790
788
786
784
782
780
5576. 0

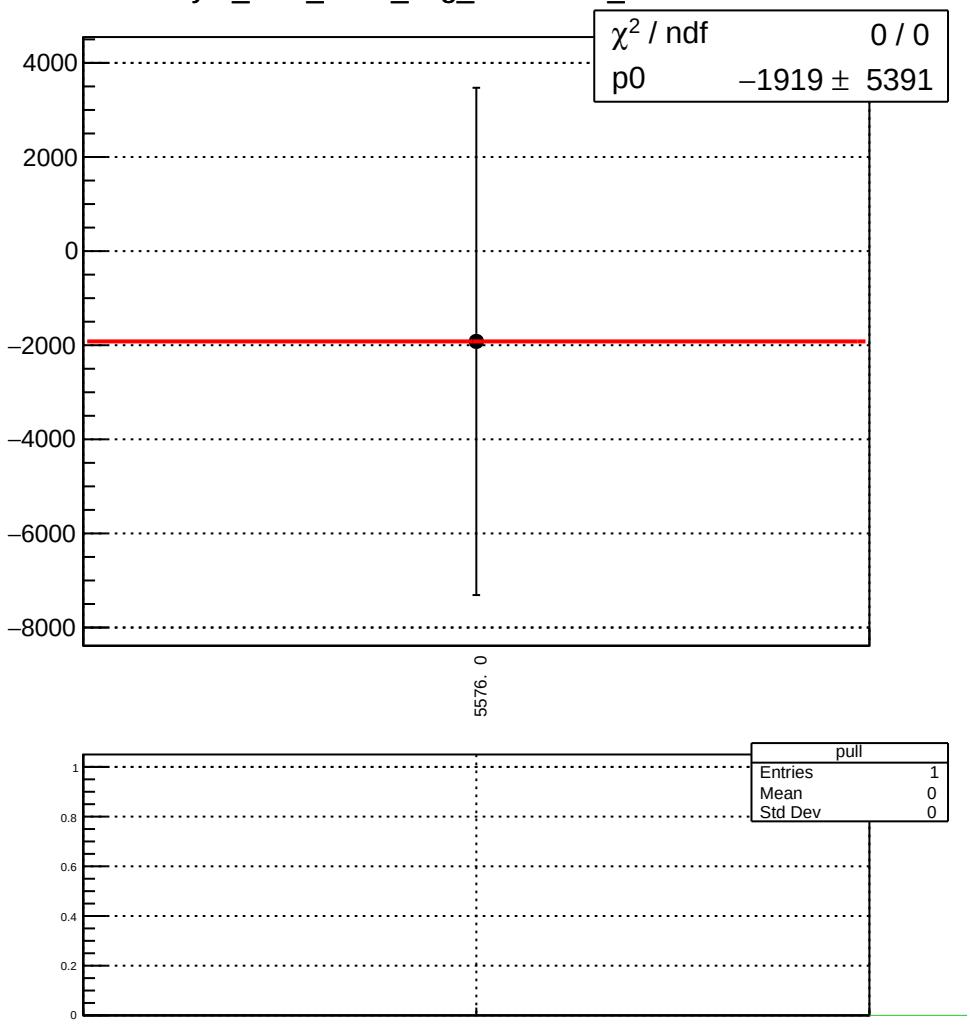

asym_sam_26_48_dd_mean vs run
χ² / ndf 7.813e−34 / 0
p0 −1791 ± 8135
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.795e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

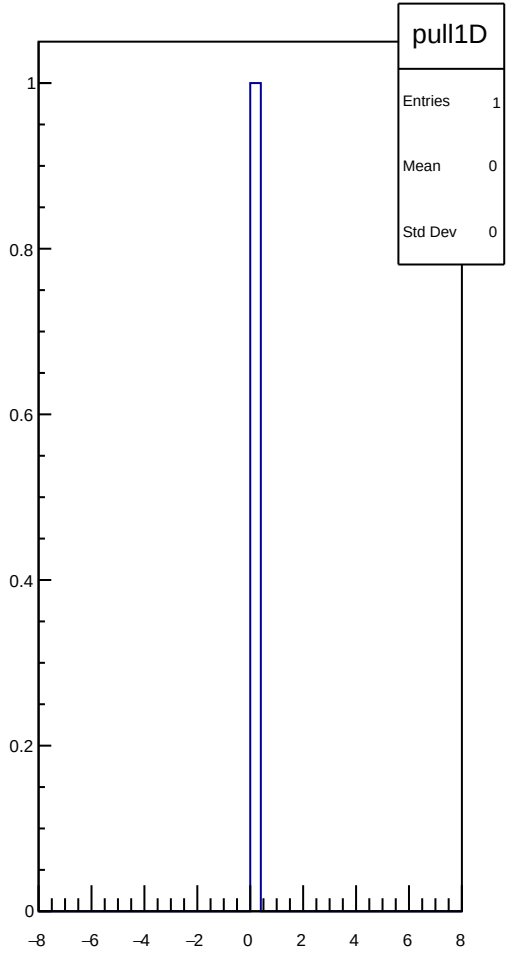

asym_sam_26_48_dd_rms vs run
χ² / ndf 0 / 0
p0 793.9 ± 5.752
800
798
796
794
792
790
788
5576. 0

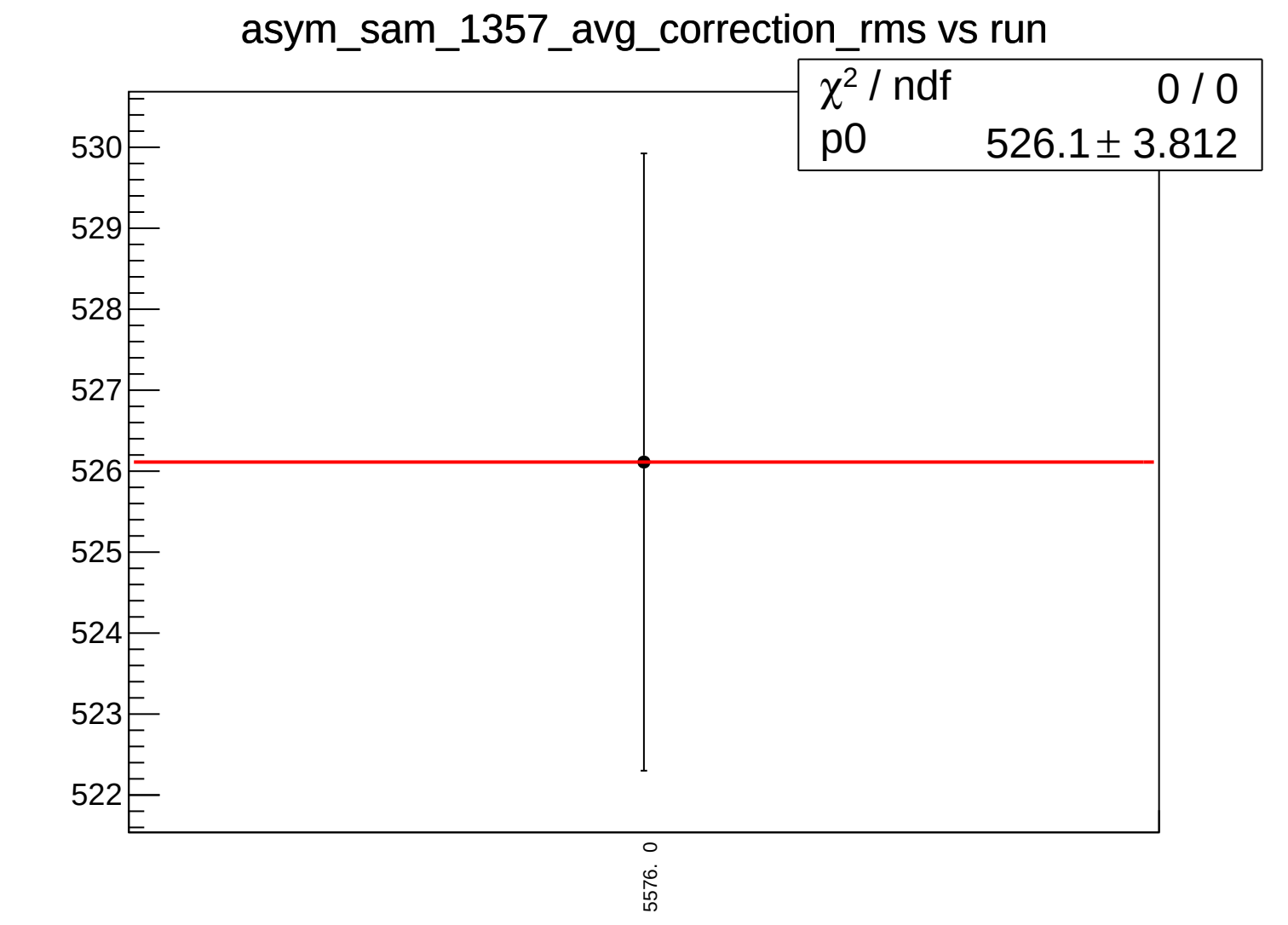

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 0 / 0
p0 −10.28 ± 411.6
400
300
200
100
0
−100
−200
−300
−400
−500
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

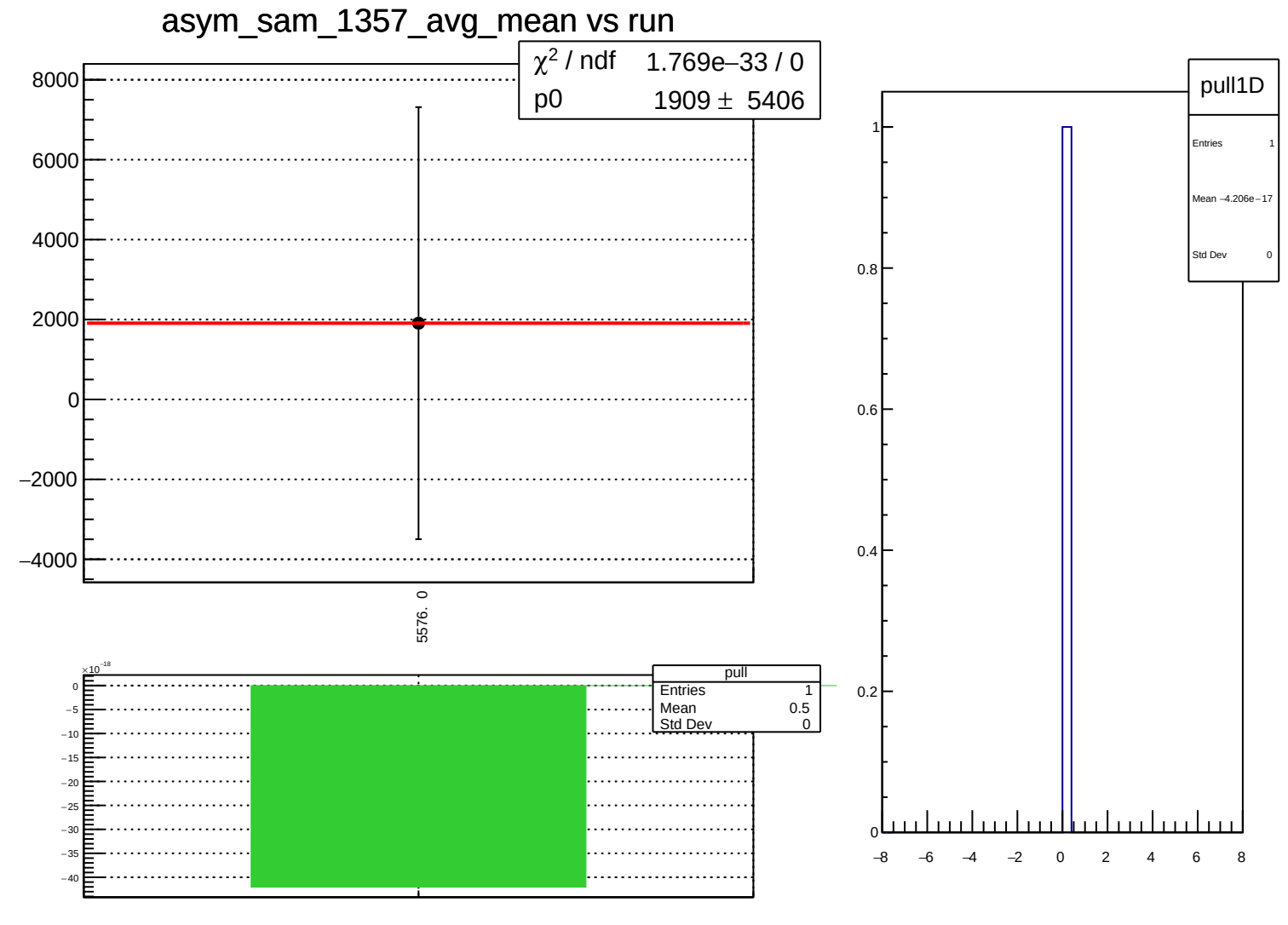

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

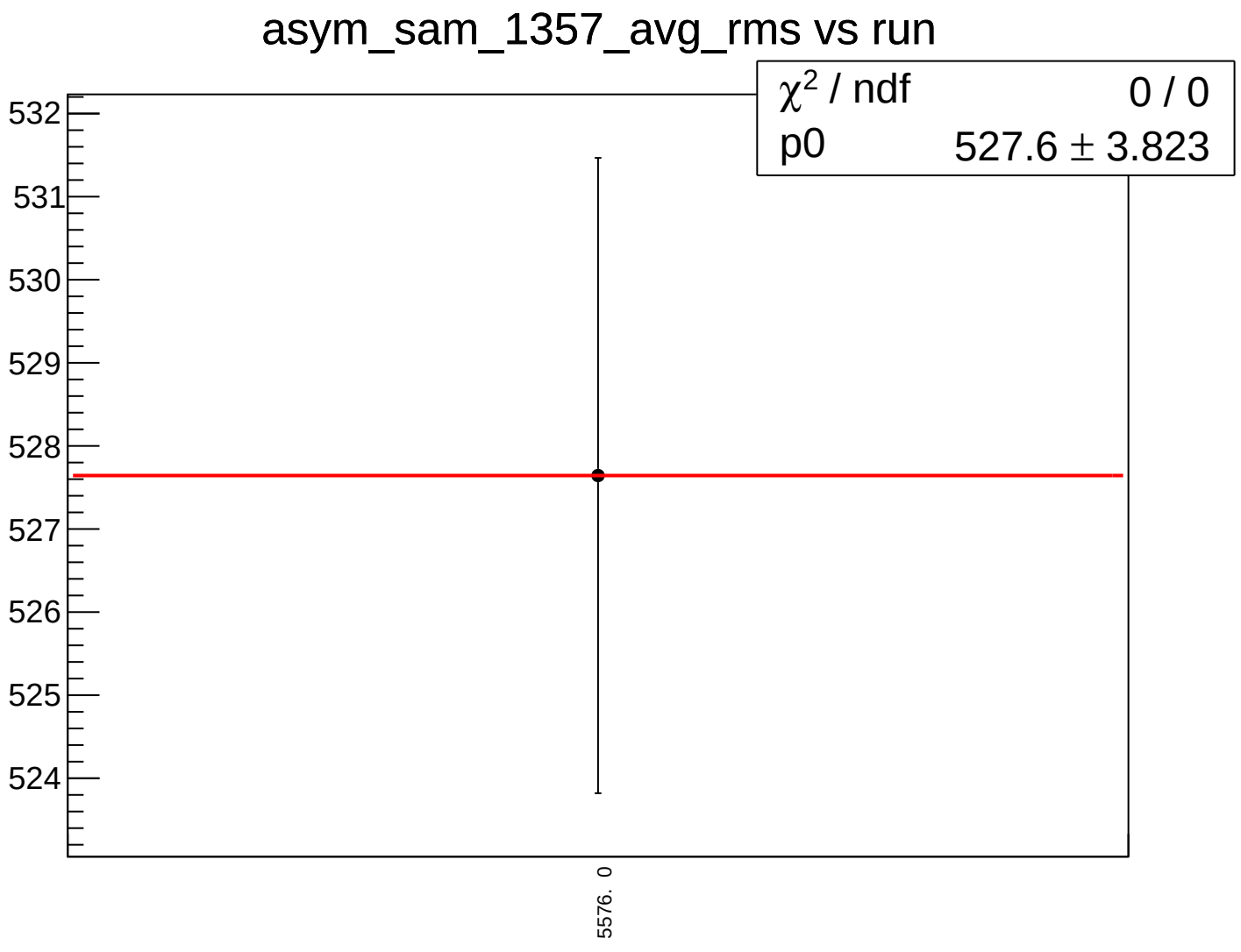

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 0 / 0
p0 40.17 ± 0.291
40.5
40.4
40.3
40.2
40.1
40
39.9
5576. 0

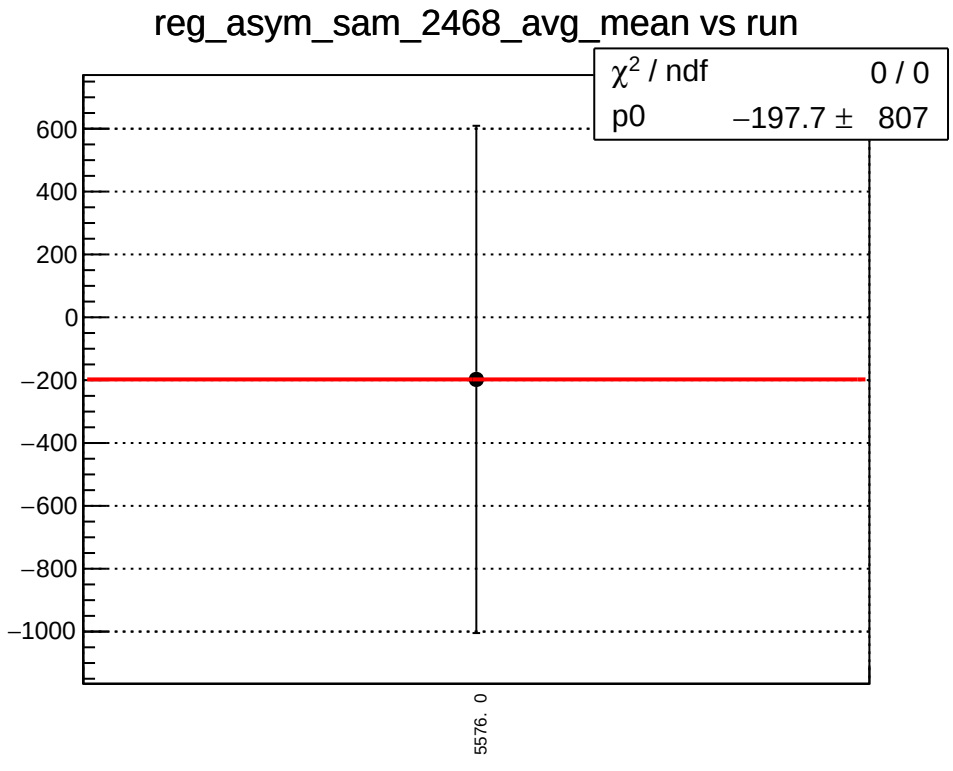

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −1919 ± 5391
4000
2000
0
−2000
−4000
−6000
−8000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

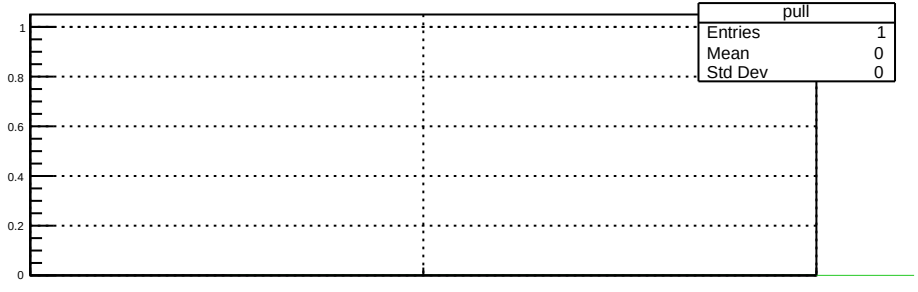

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

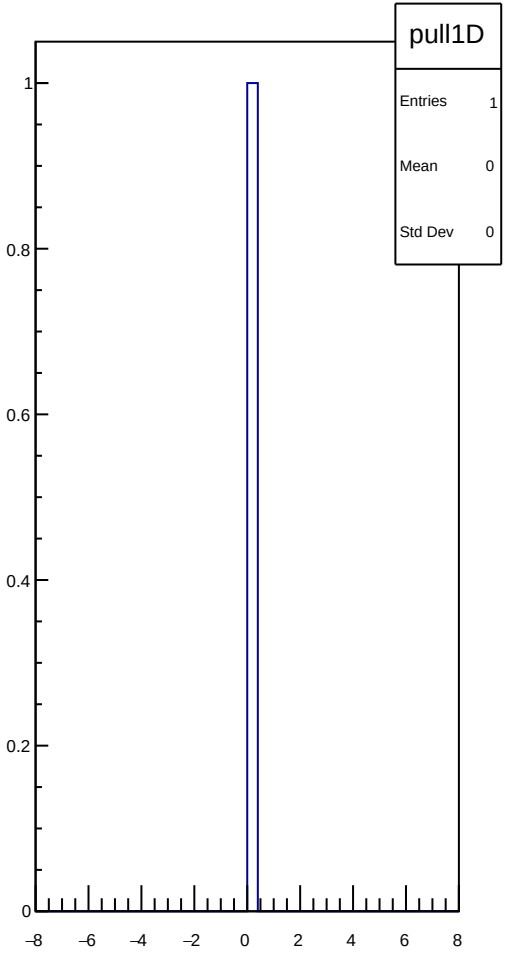

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 526.1 ± 3.812
530
529
528
527
526
525
524
523
522
5576. 0

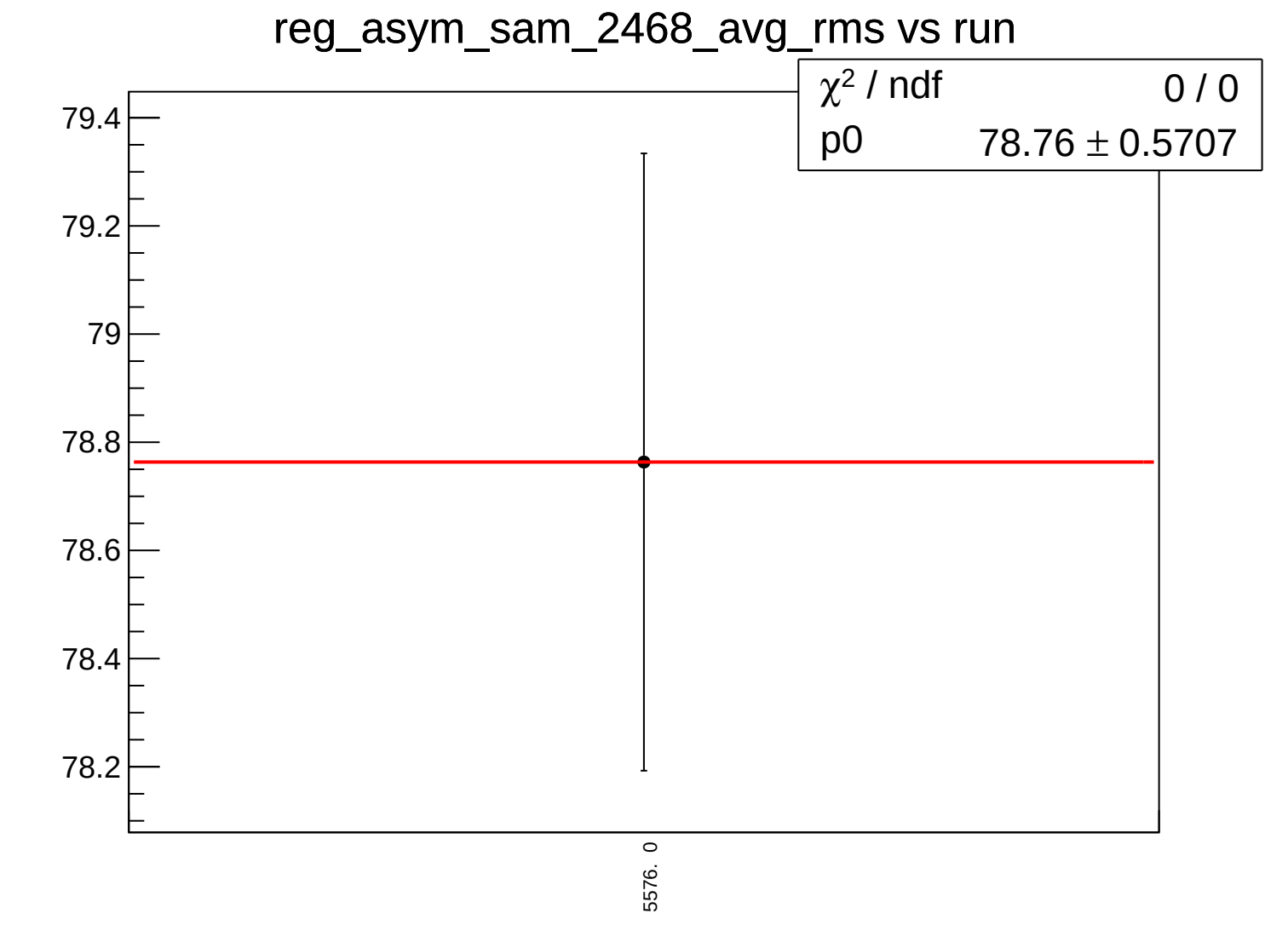

asym_sam_1357_avg_mean vs run
χ² / ndf 1.769e−33 / 0
p0 1909 ± 5406
8000
6000
4000
2000
0
−2000
−4000
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.206e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

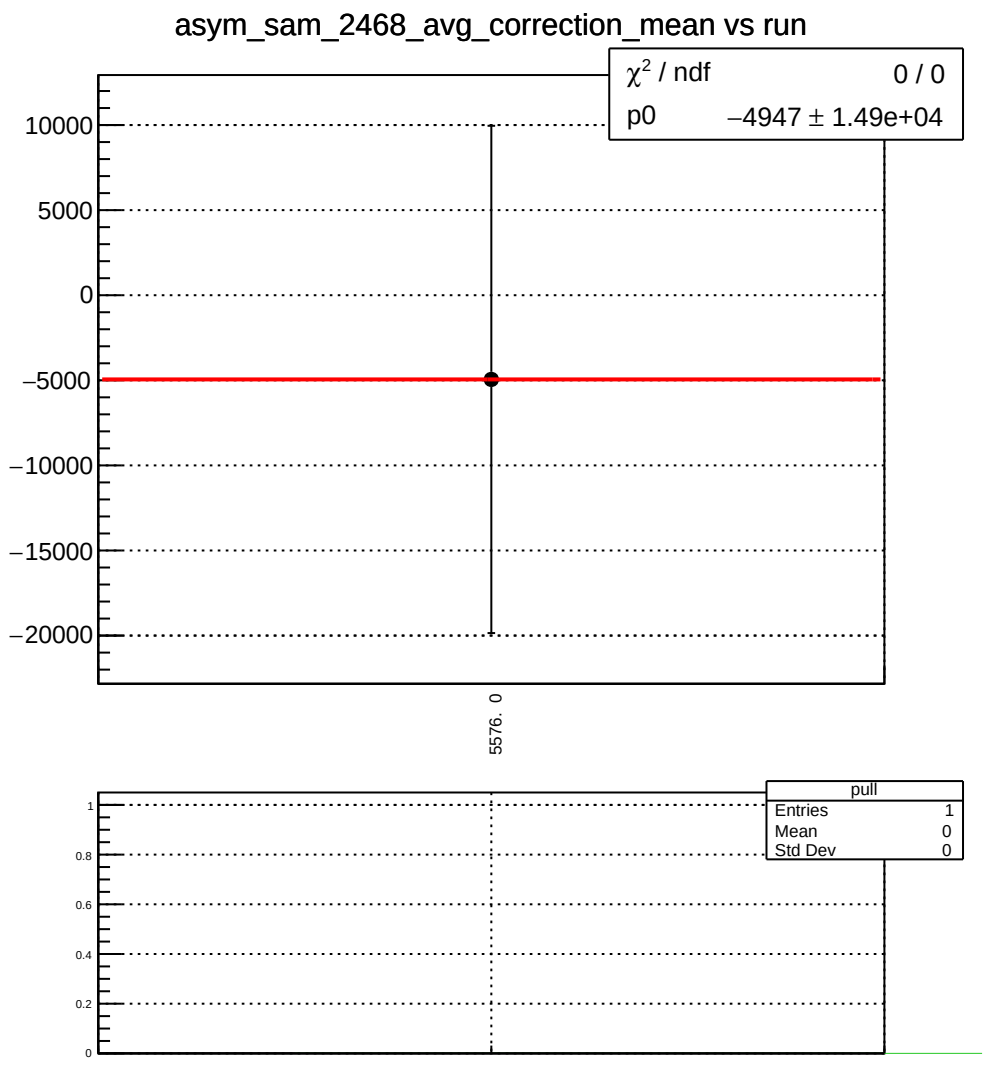

asym_sam_1357_avg_rms vs run
χ² / ndf 0 / 0
p0 527.6 ± 3.823
532
531
530
529
528
527
526
525
524
5576. 0

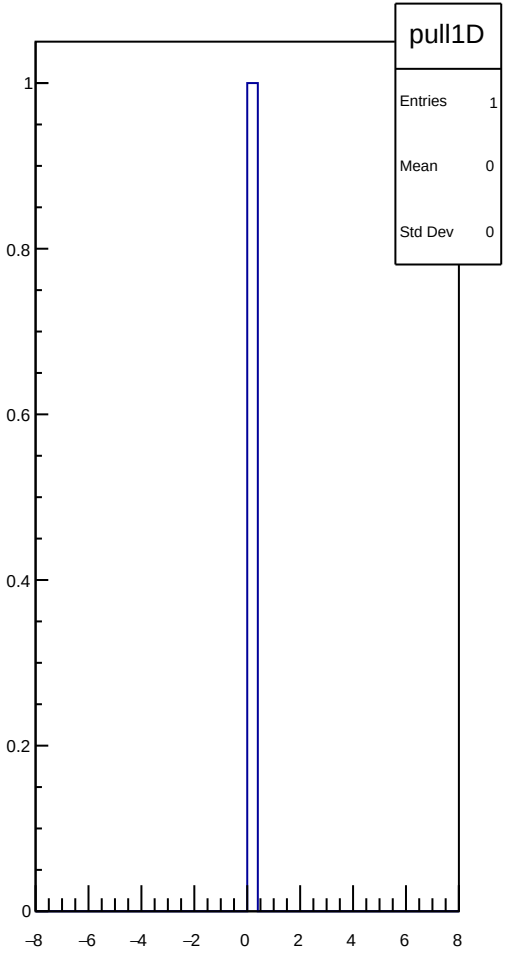

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 0 / 0
p0 −197.7 ± 807
600
400
200
0
−200
−400
−600
−800
−1000
5576. 0

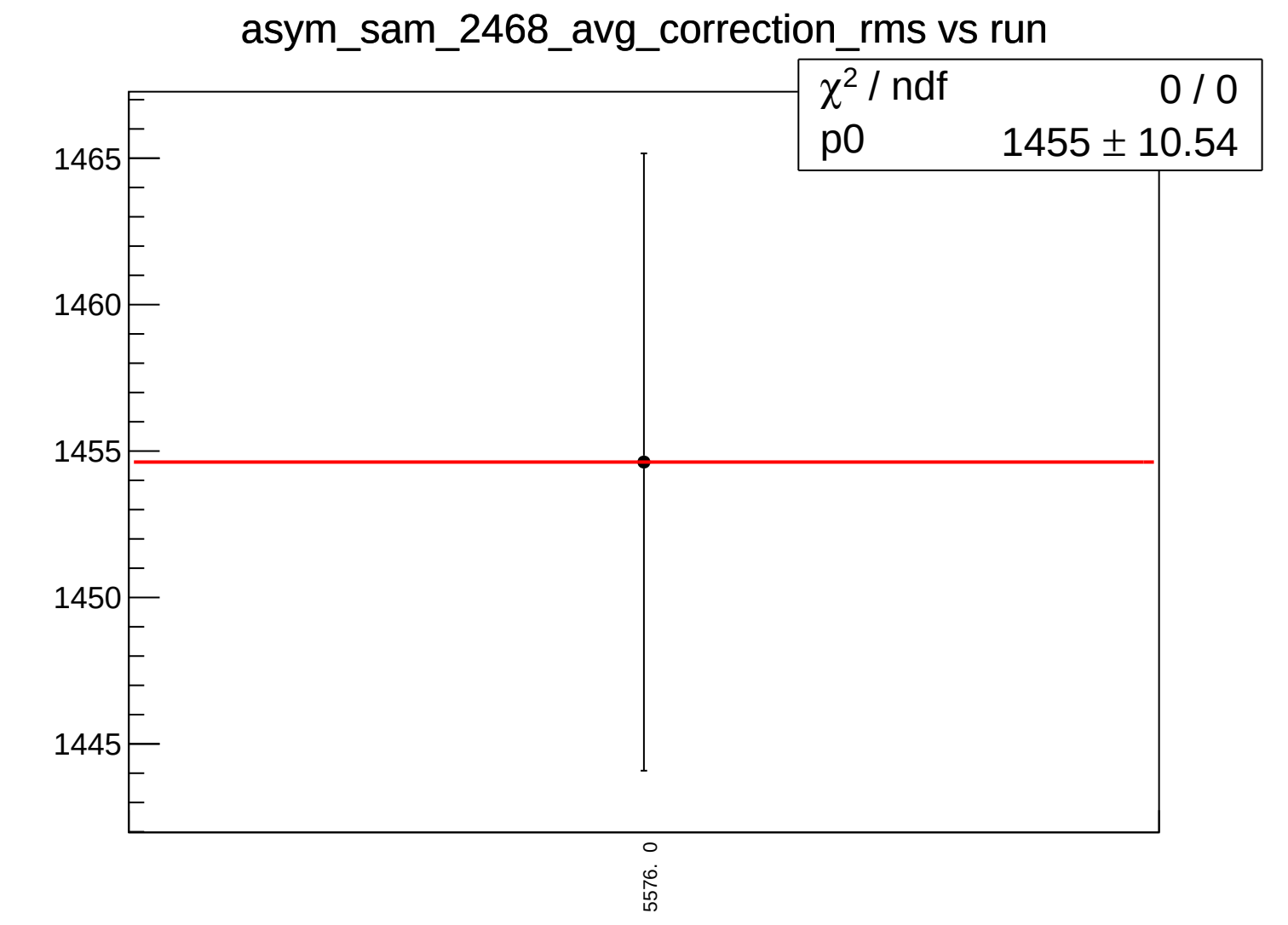

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

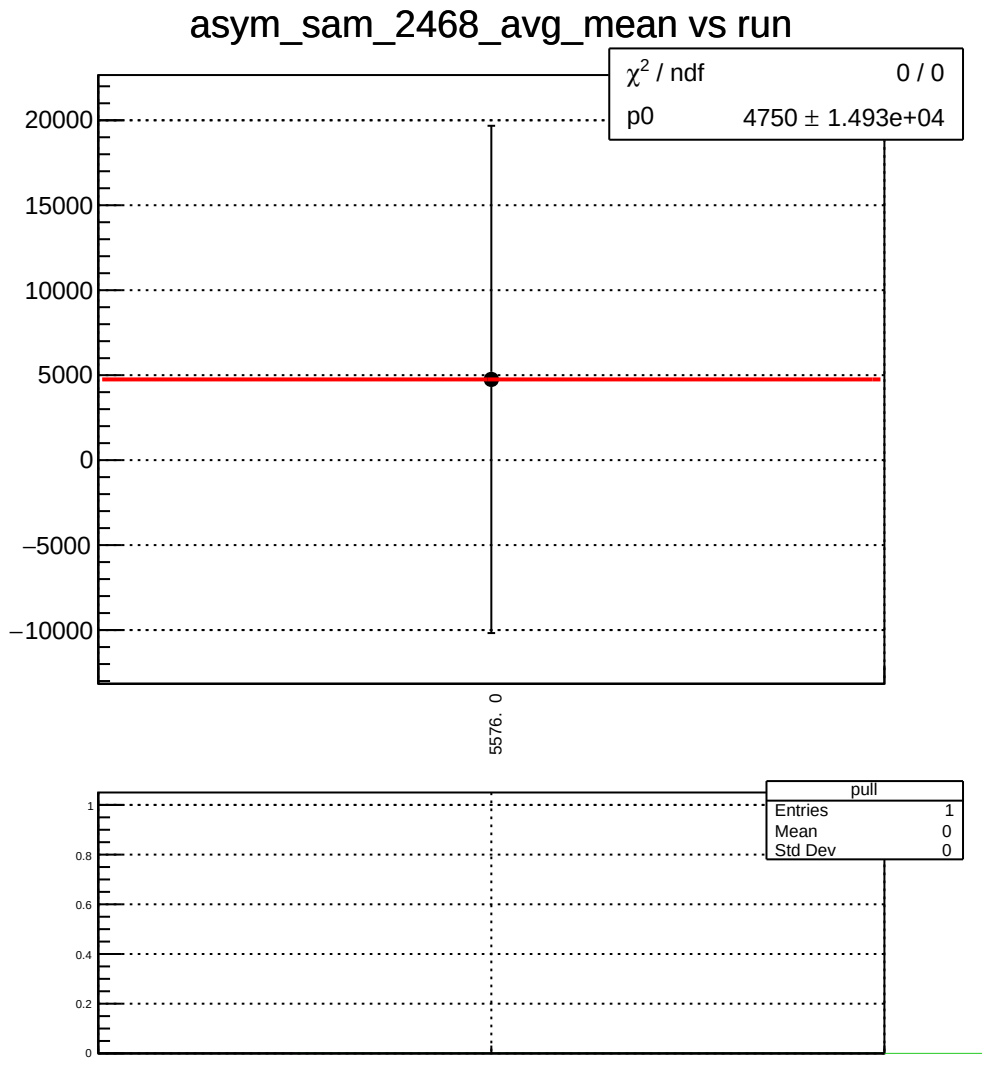

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

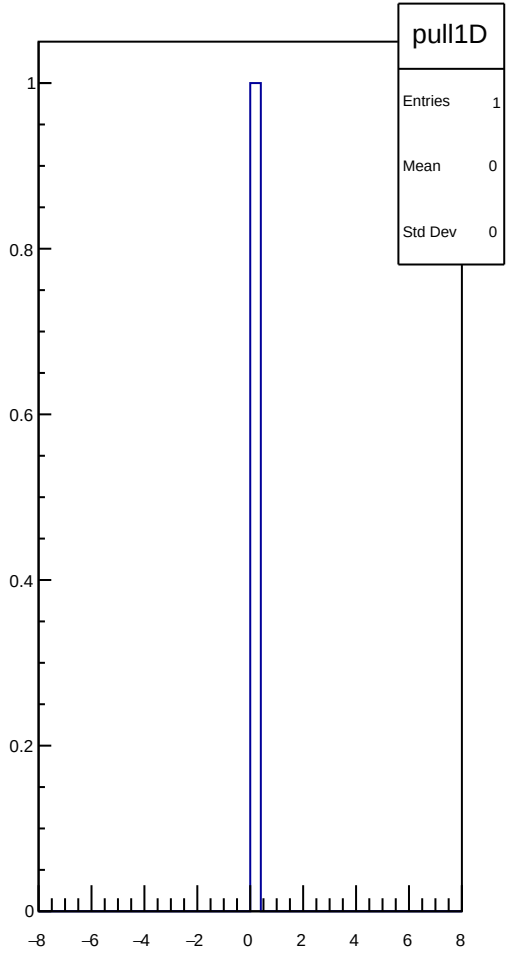

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 0 / 0
p0 78.76 ± 0.5707
79.4
79.2
79
78.8
78.6
78.4
78.2
5576. 0


asym_sam_2468_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −4947 ± 1.49e+04
10000
5000
0
−5000
−10000
−15000
−20000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


asym_sam_2468_avg_correction_rms vs run
χ² / ndf 0 / 0
p0 1455 ± 10.54
1465
1460
1455
1450
1445
5576. 0


asym_sam_2468_avg_mean vs run
χ² / ndf 0 / 0
p0 4750 ± 1.493e+04
20000
15000
10000
5000
0
−5000
−10000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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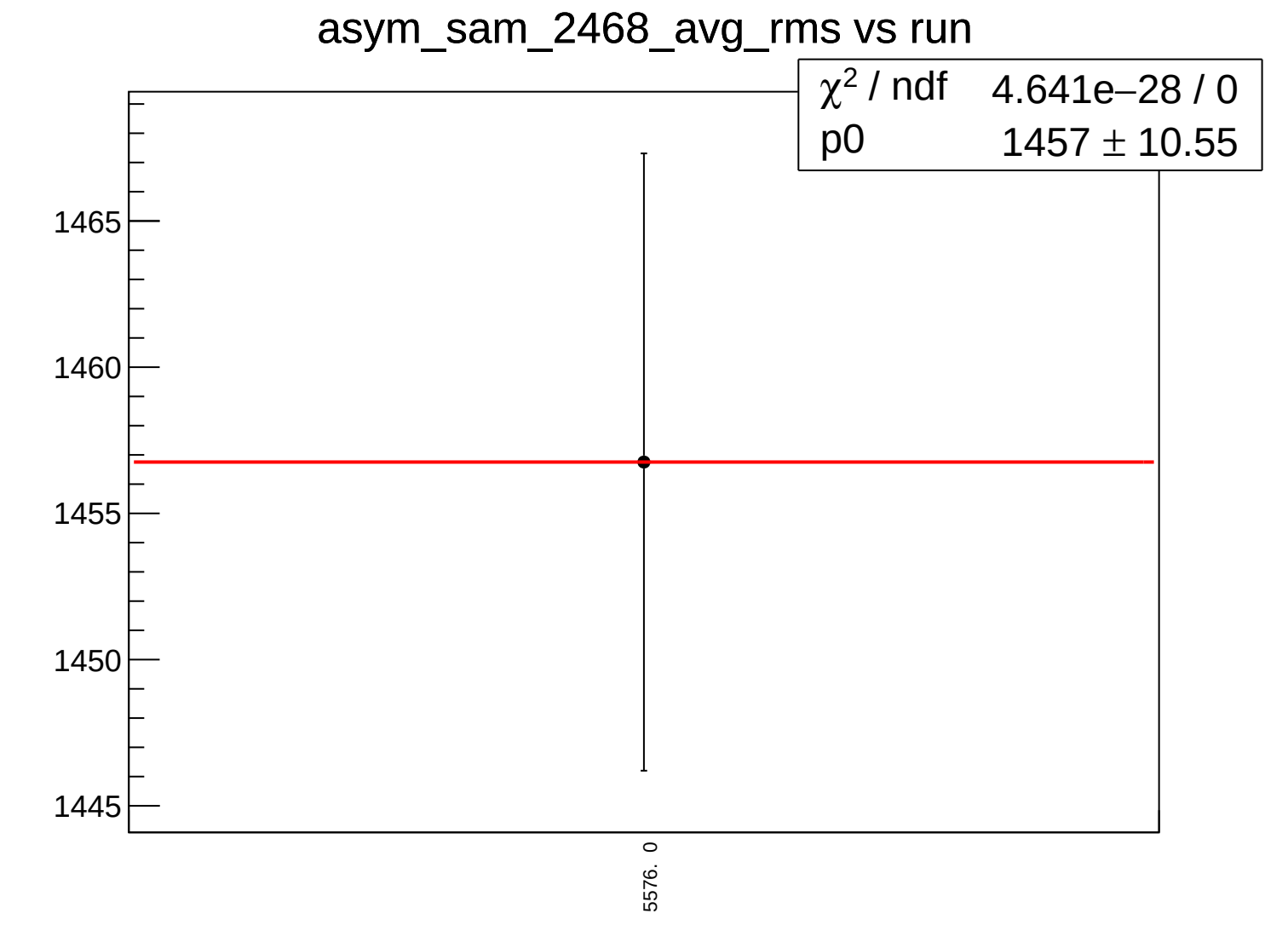
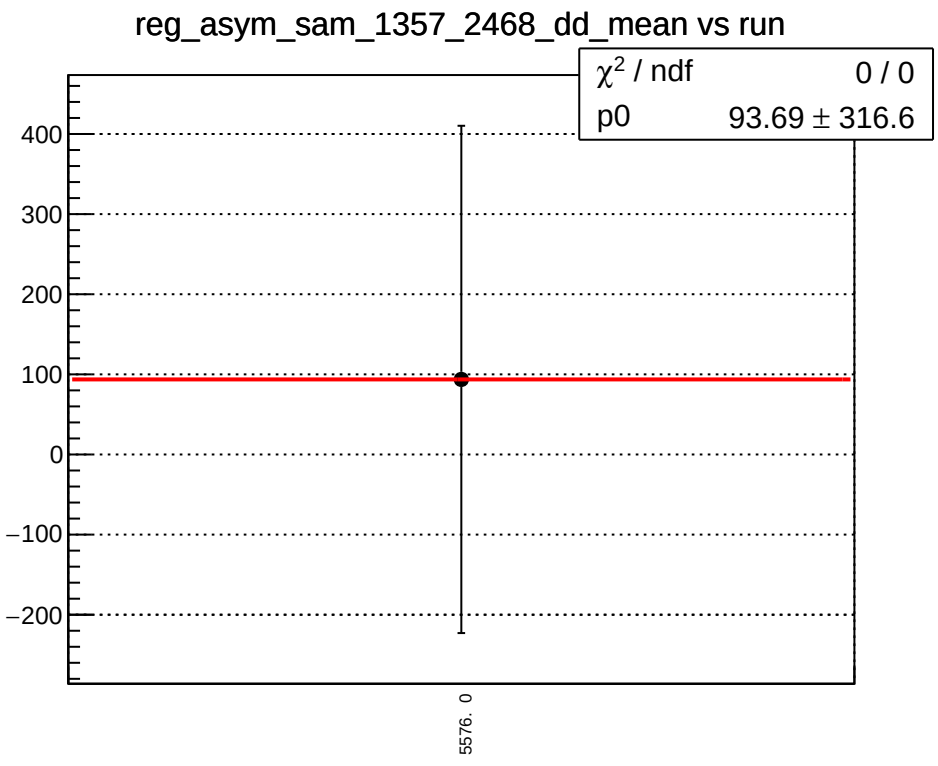
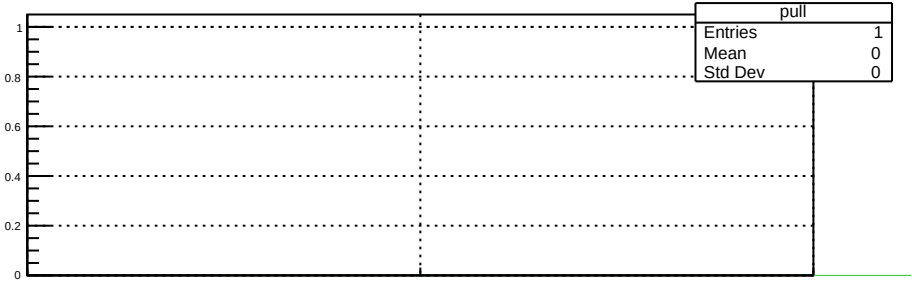
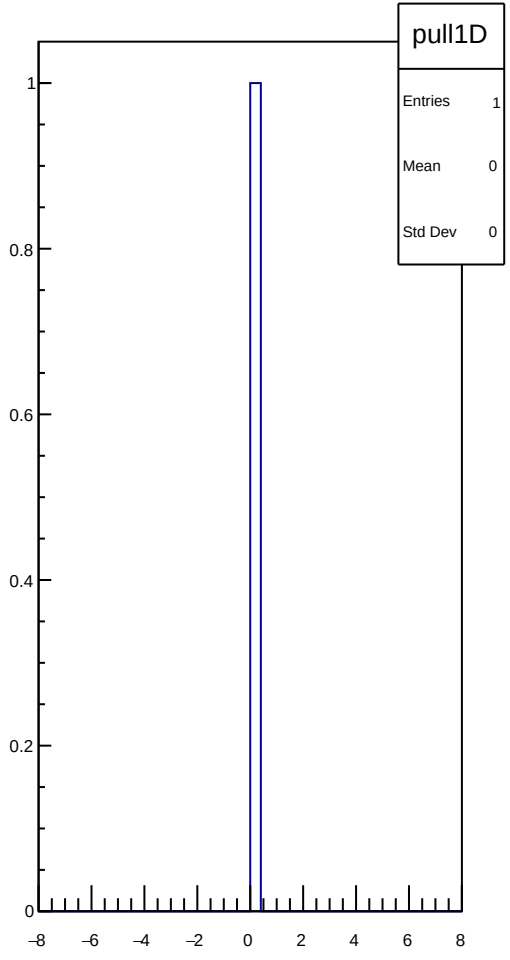
0
2
4
6
8


asym_sam_2468_avg_rms vs run
χ² / ndf 4.641e−28 / 0
p0 1457 ± 10.55
1465
1460
1455
1450
1445
5576. 0


reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 0 / 0
p0 93.69 ± 316.6
400
300
200
100
0
−100
−200
5576. 0


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


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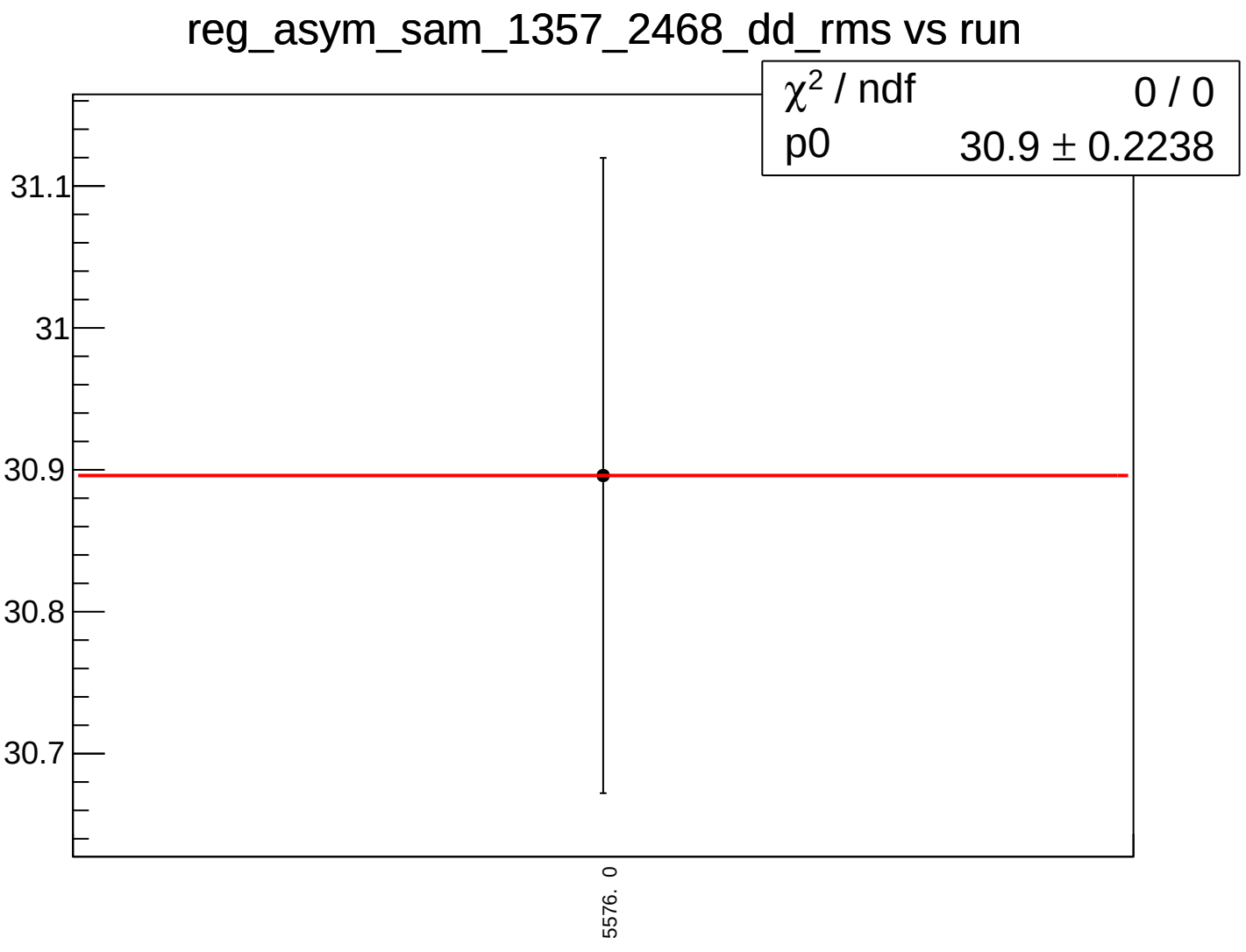
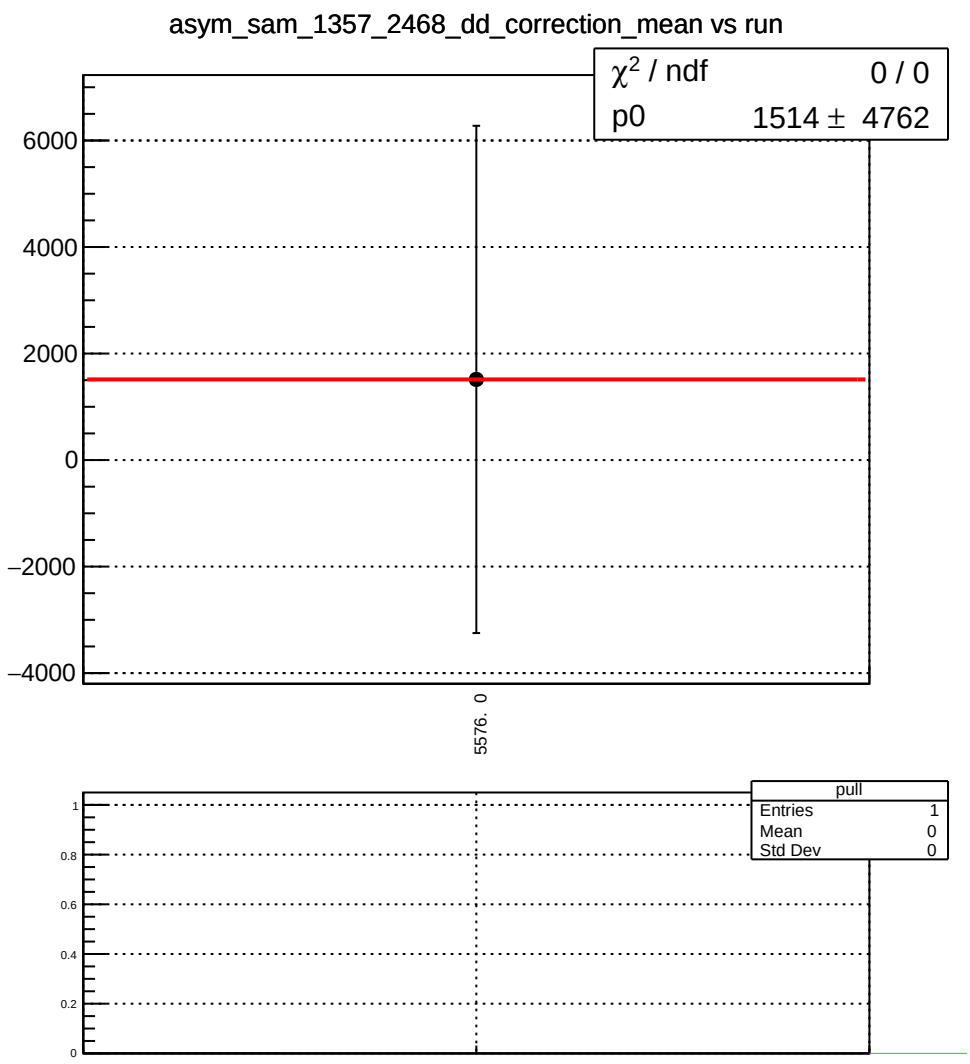
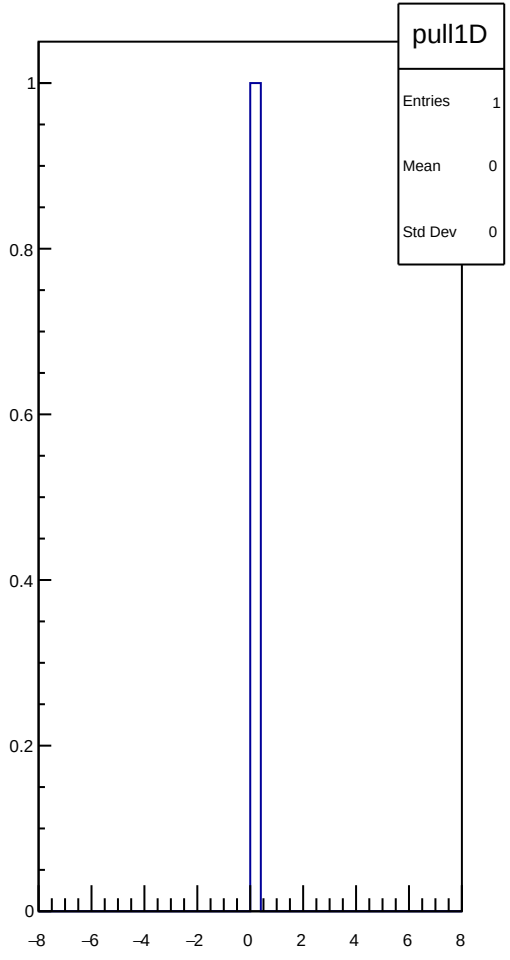
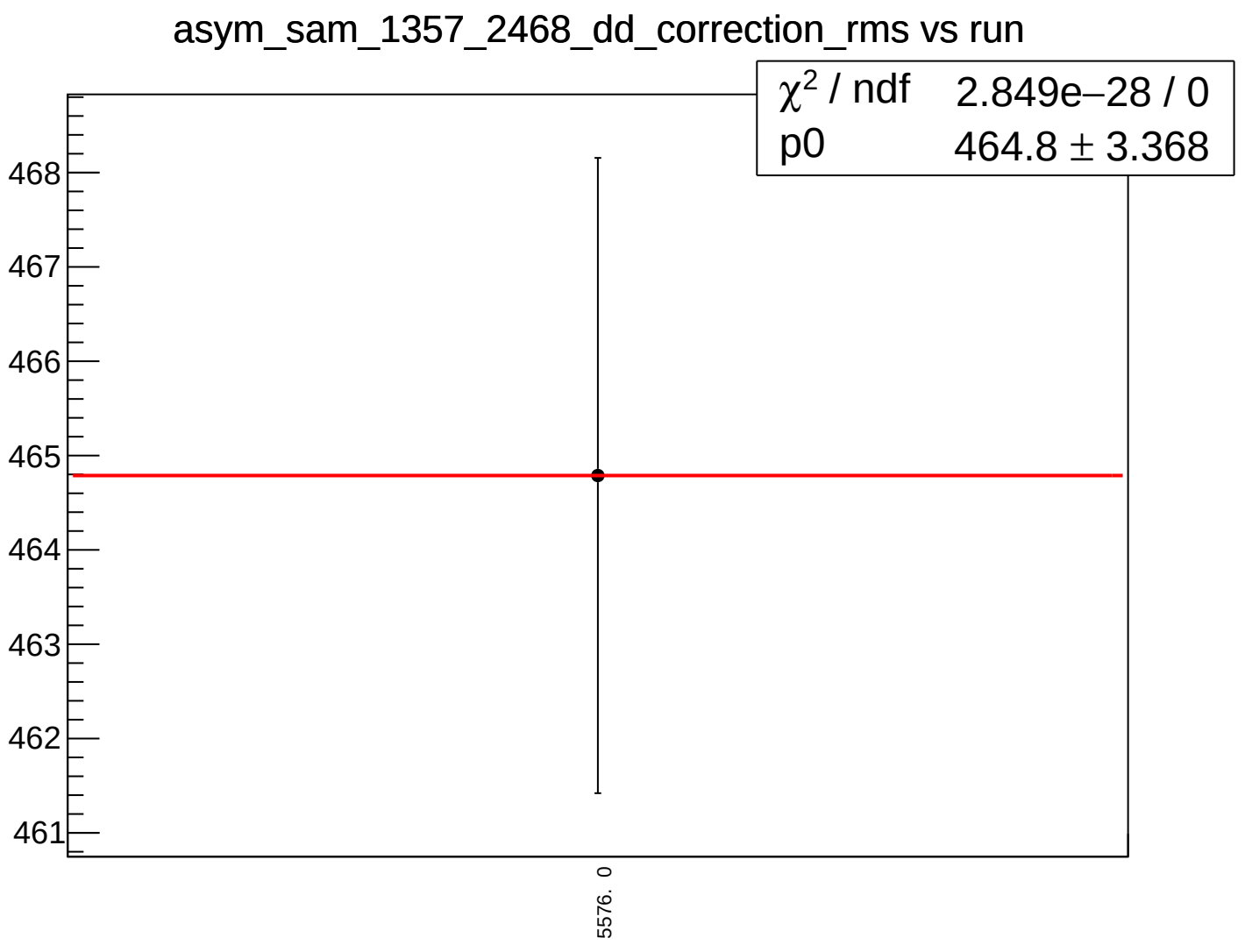
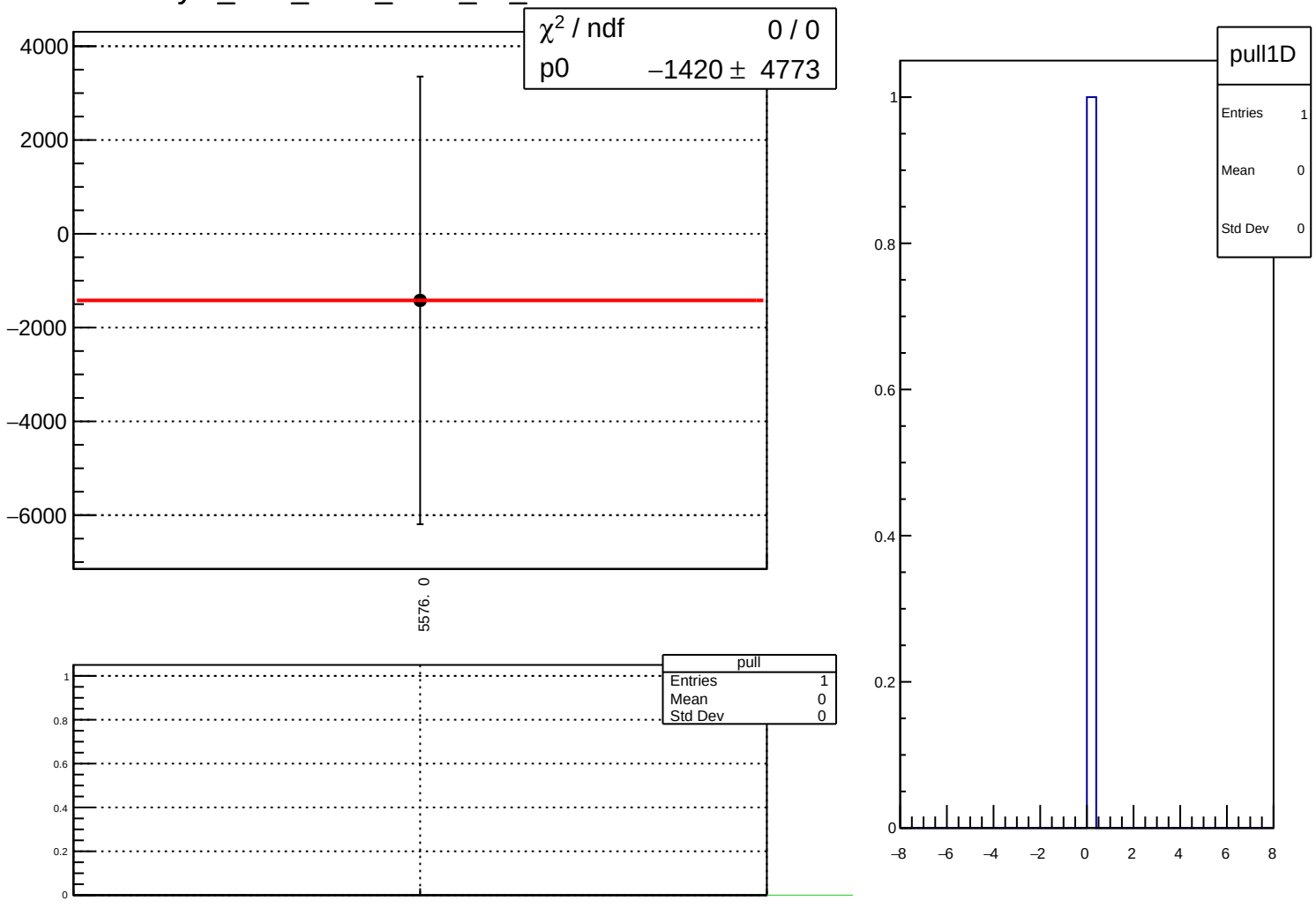
0
2
4
6
8

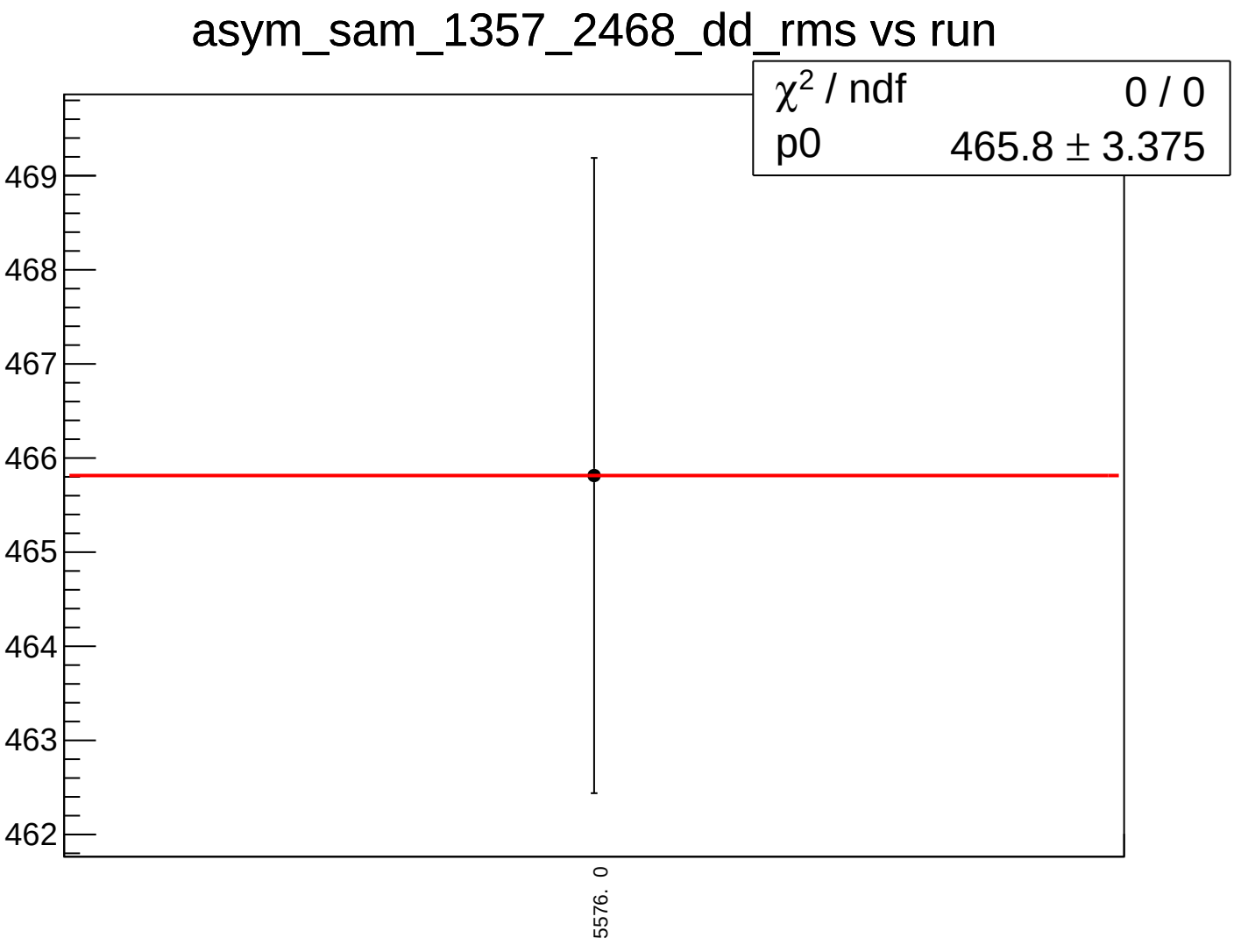

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 0 / 0
p0 30.9 ± 0.2238
31.1
31
30.9
30.8
30.7
5576. 0

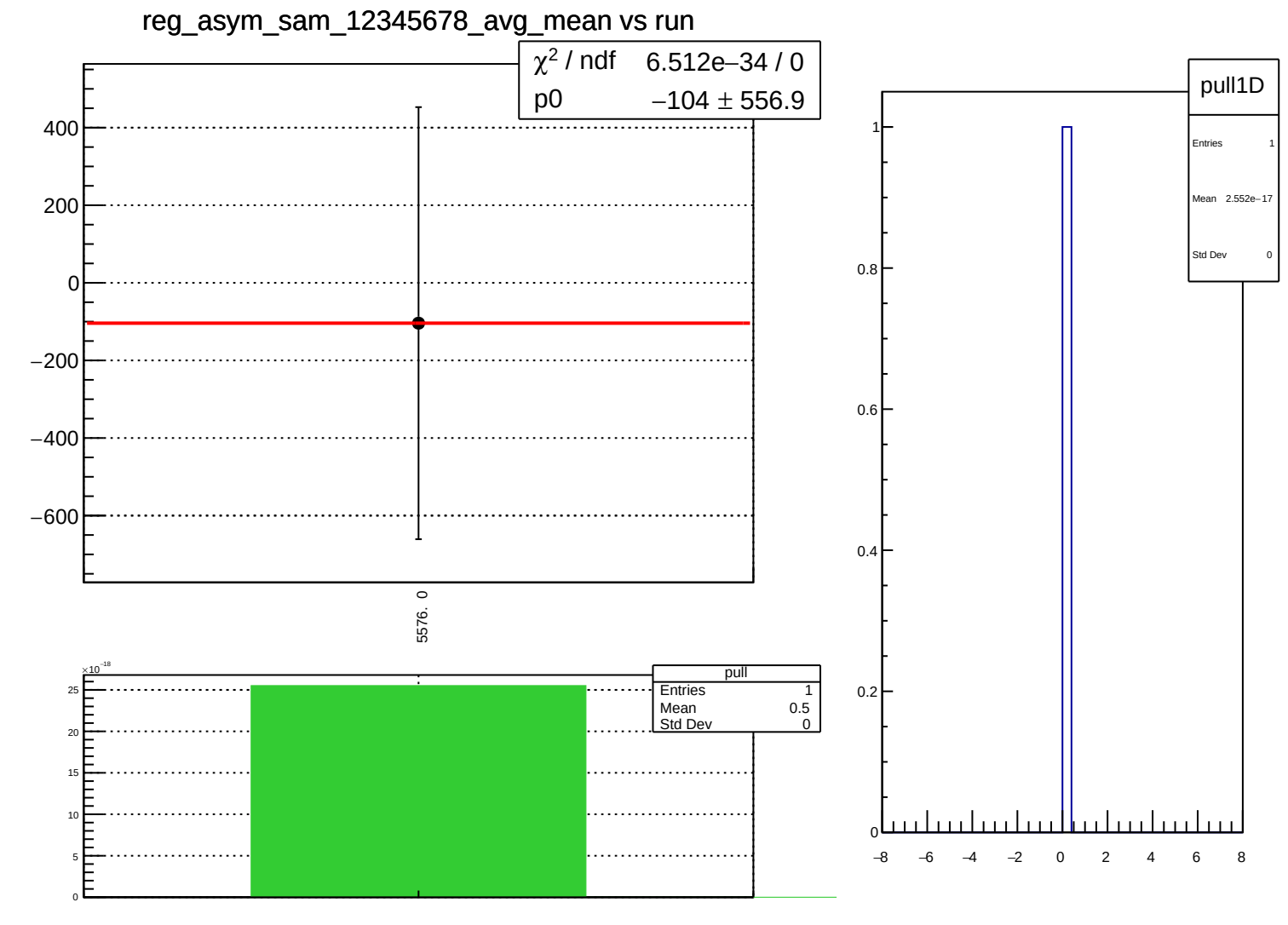

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 0 / 0
p0 1514 ± 4762
6000
4000
2000
0
−2000
−4000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

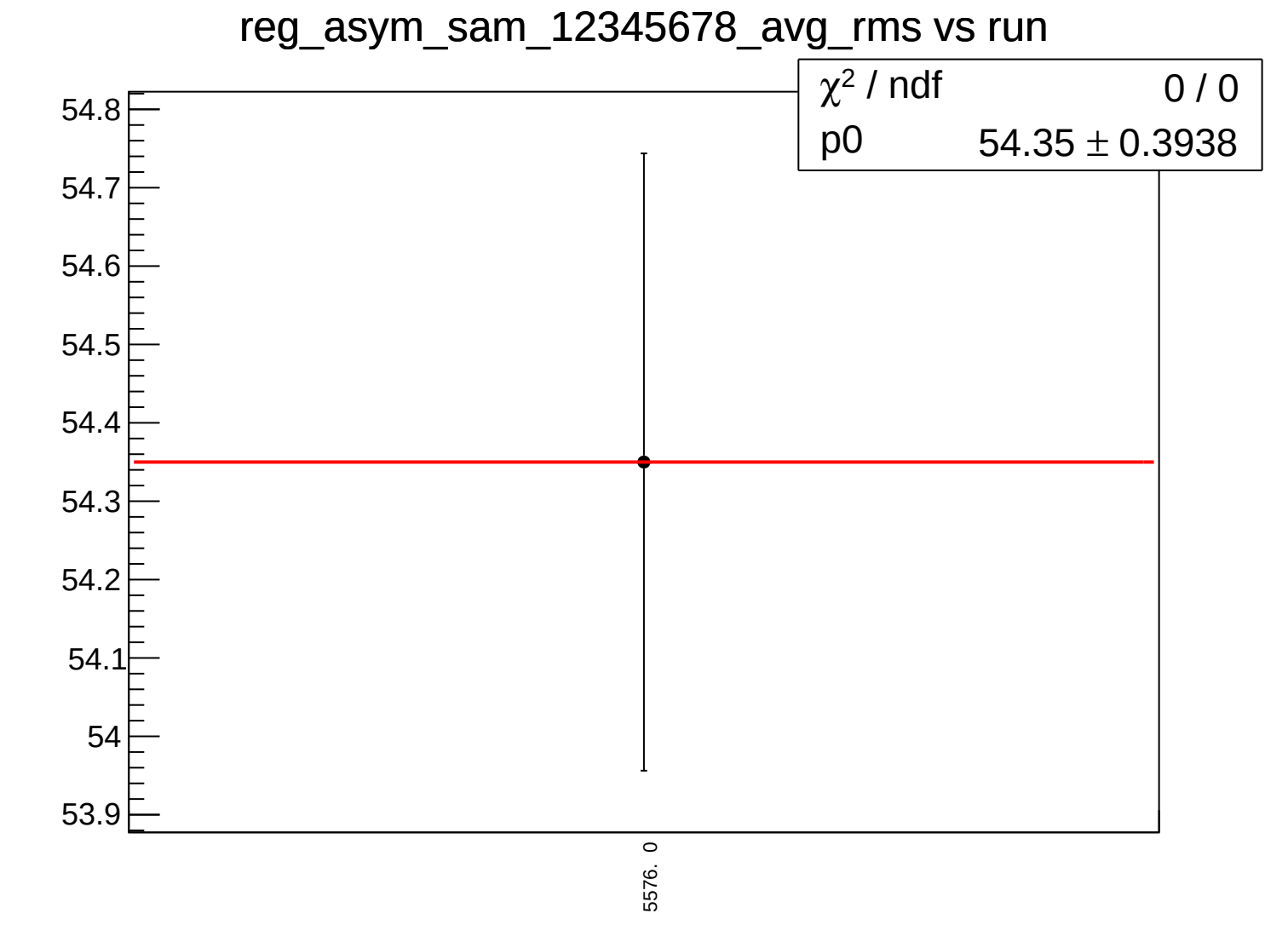

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

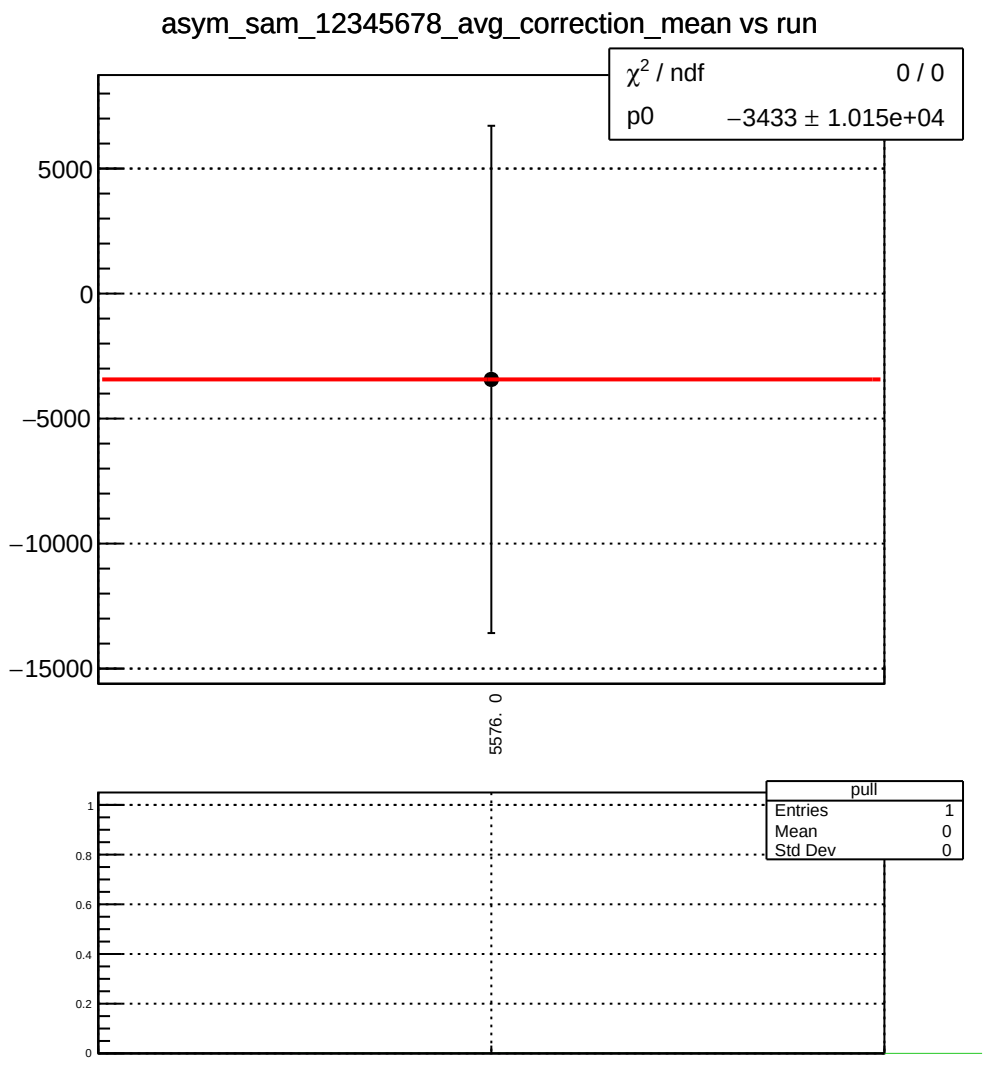

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2.849e−28 / 0
p0 464.8 ± 3.368
468
467
466
465
464
463
462
461
5576. 0

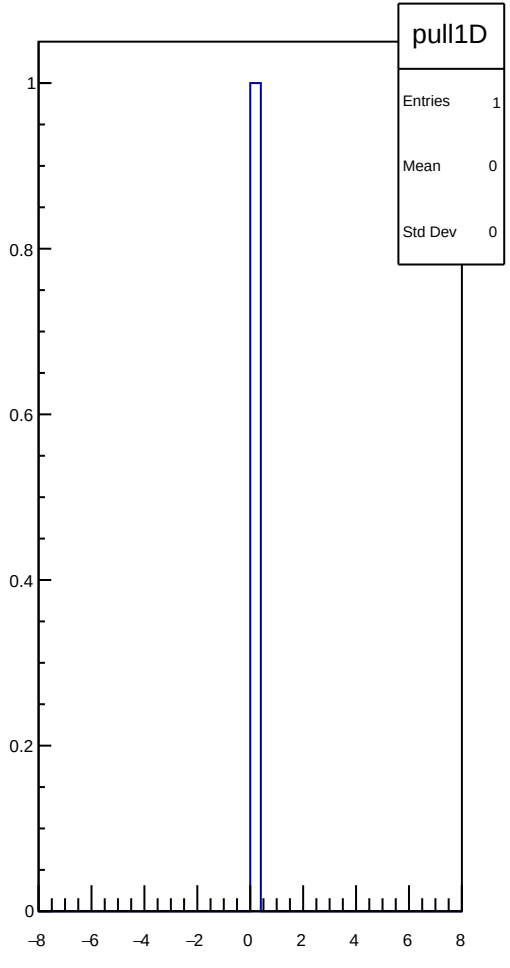

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 0 / 0
p0 −1420 ± 4773
4000
2000
0
−2000
−4000
−6000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

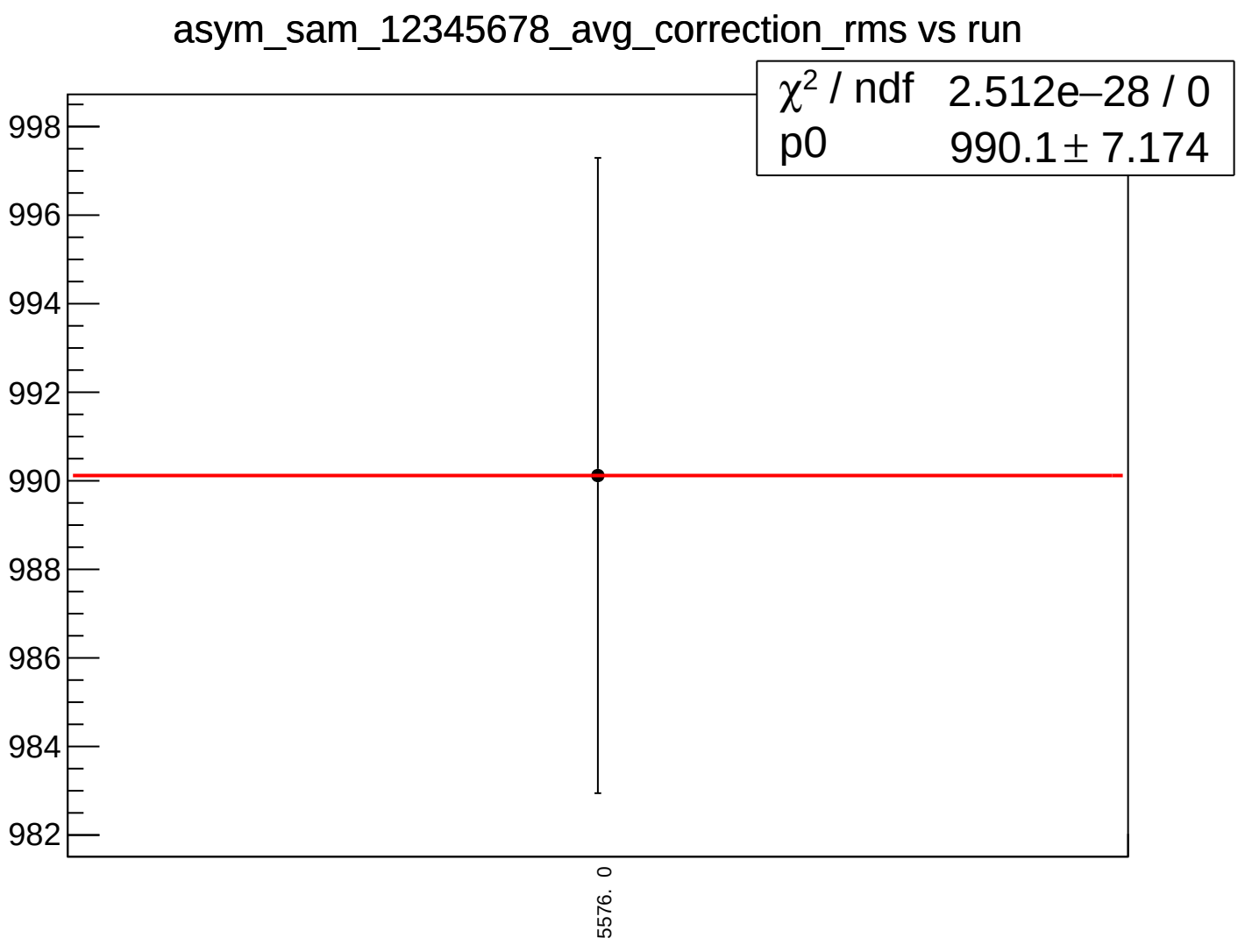

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 0 / 0
p0 465.8 ± 3.375
469
468
467
466
465
464
463
462
5576. 0

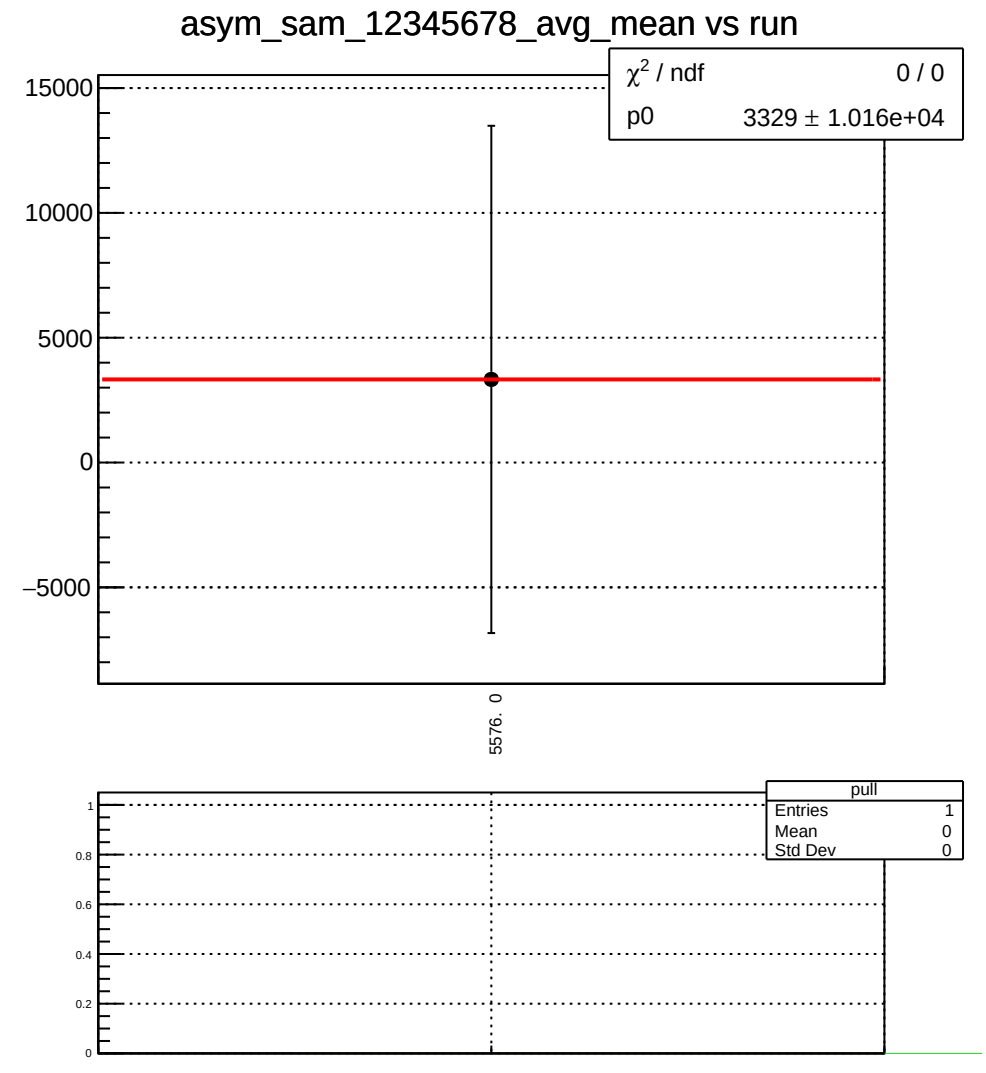

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 6.512e−34 / 0
p0 −104 ± 556.9
400
200
0
−200
−400
−600
5576. 0
×10⁻¹⁸
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.552e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

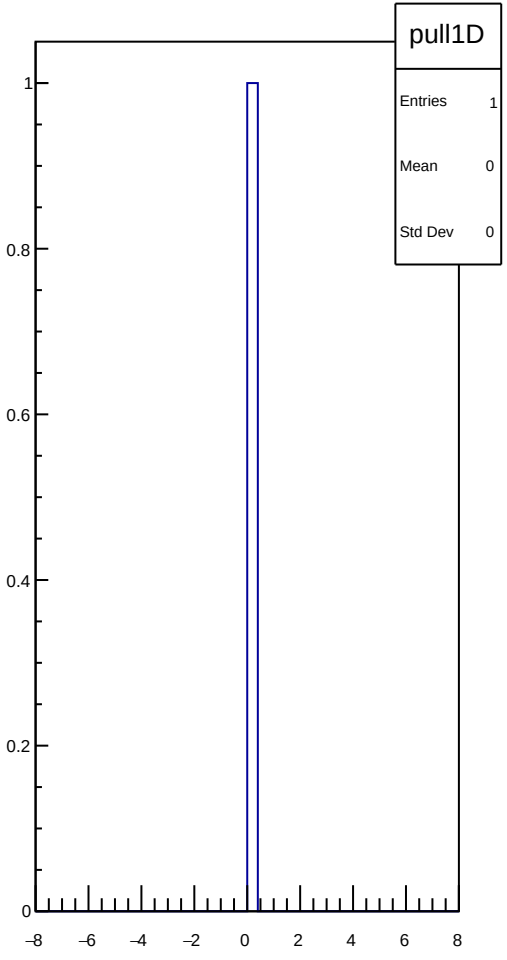

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 0 / 0
p0 54.35 ± 0.3938
54.8
54.7
54.6
54.5
54.4
54.3
54.2
54.1
54
53.9
5576. 0

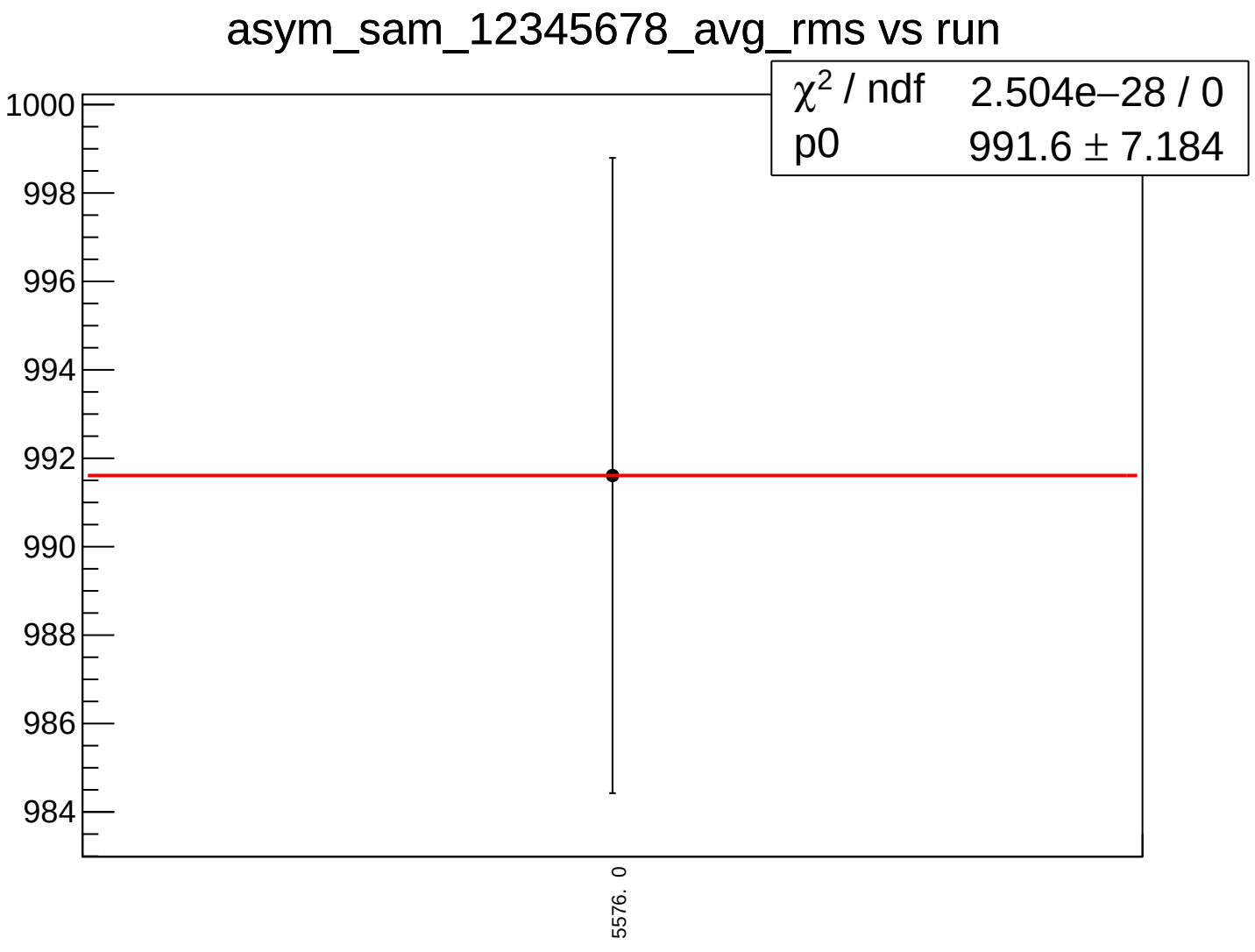

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 0 / 0
p0 −3433 ± 1.015e+04
5000
0
−5000
−10000
−15000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

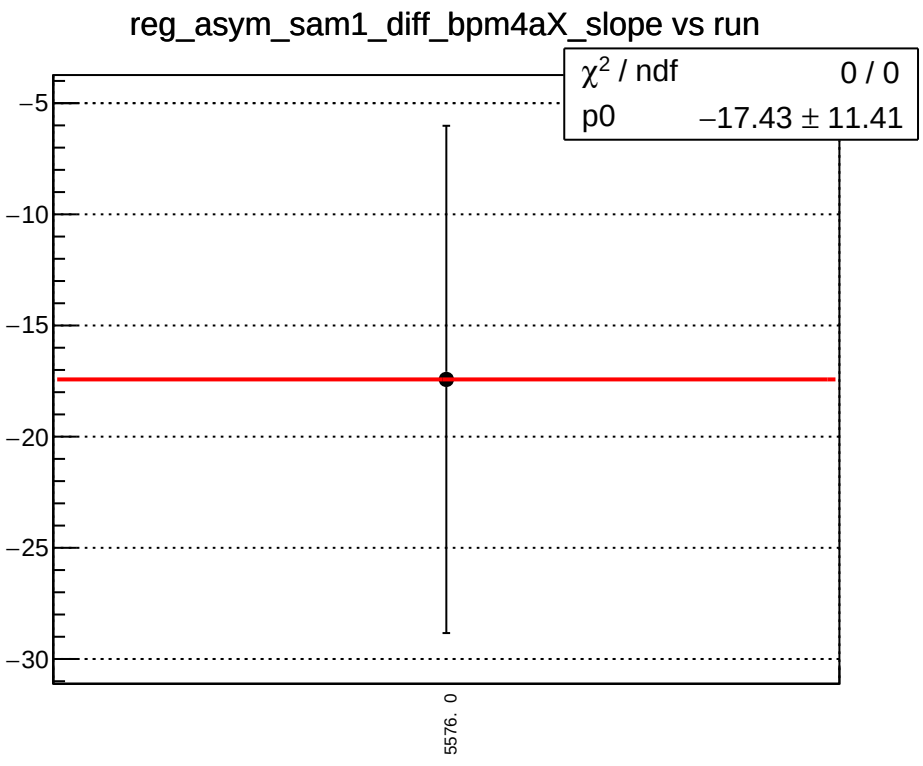

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

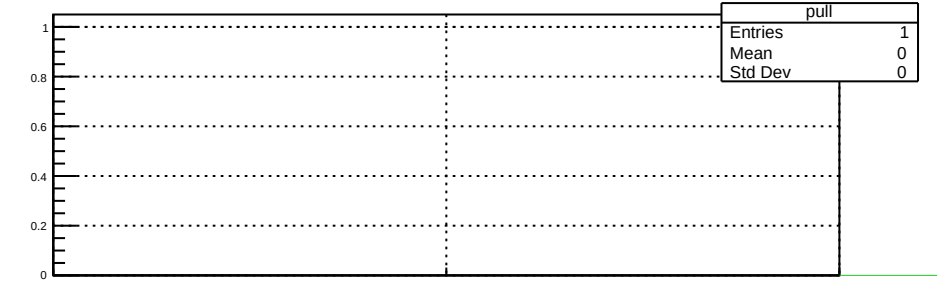

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.512e−28 / 0
p0 990.1 ± 7.174
998
996
994
992
990
988
986
984
982
5576. 0

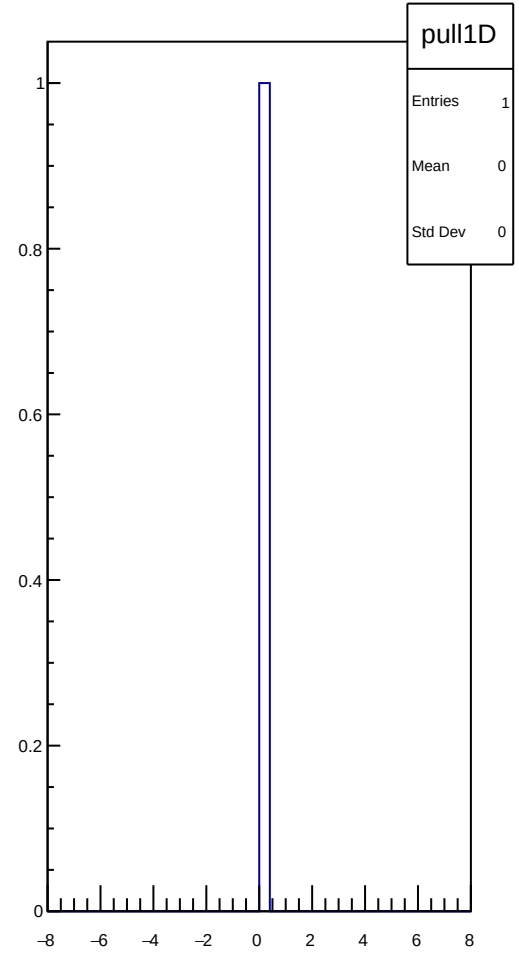

asym_sam_12345678_avg_mean vs run
χ² / ndf 0 / 0
p0 3329 ± 1.016e+04
15000
10000
5000
0
−5000
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

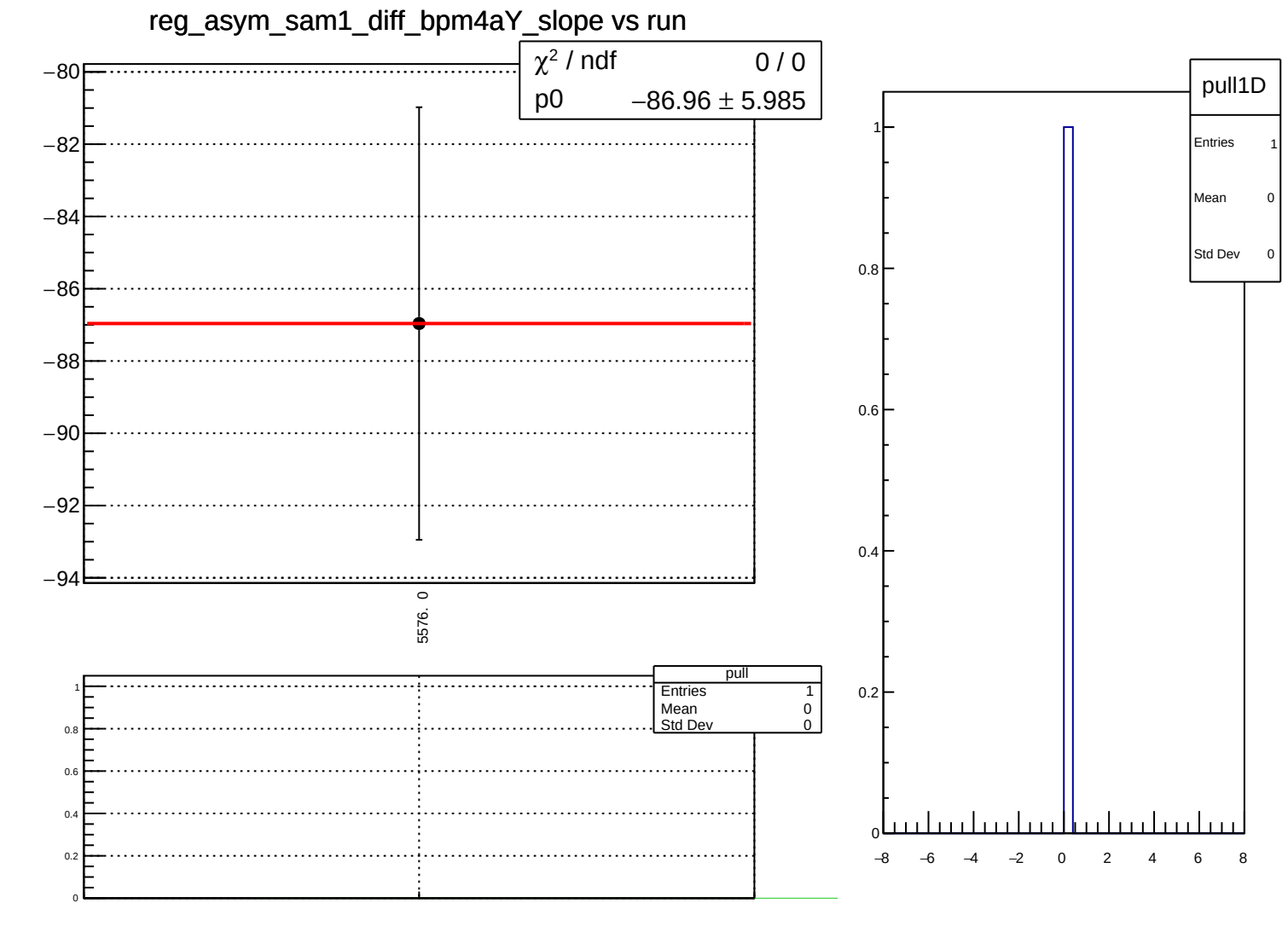

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

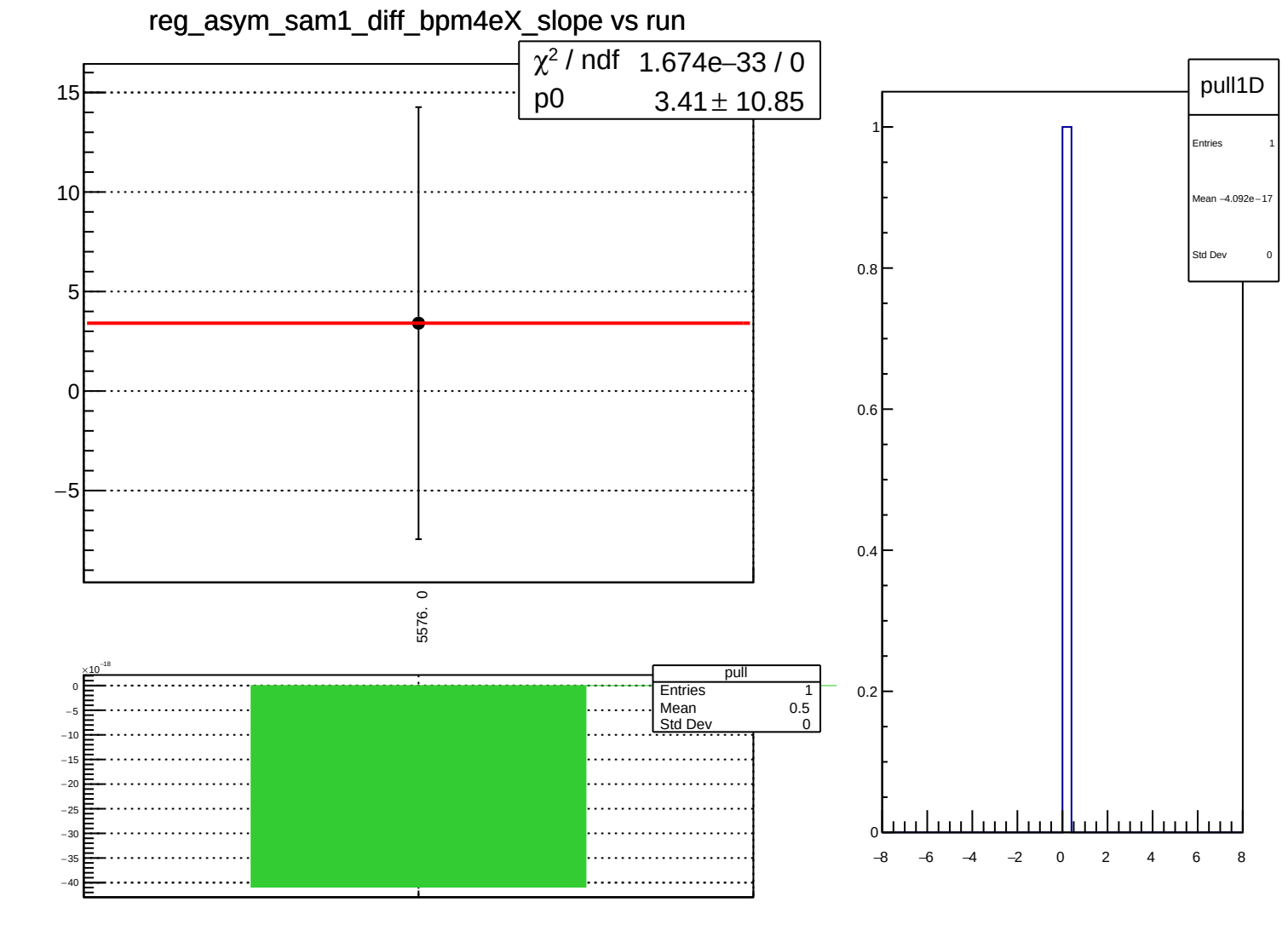

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.504e−28 / 0
p0 991.6 ± 7.184
1000
998
996
994
992
990
988
986
984
5576. 0

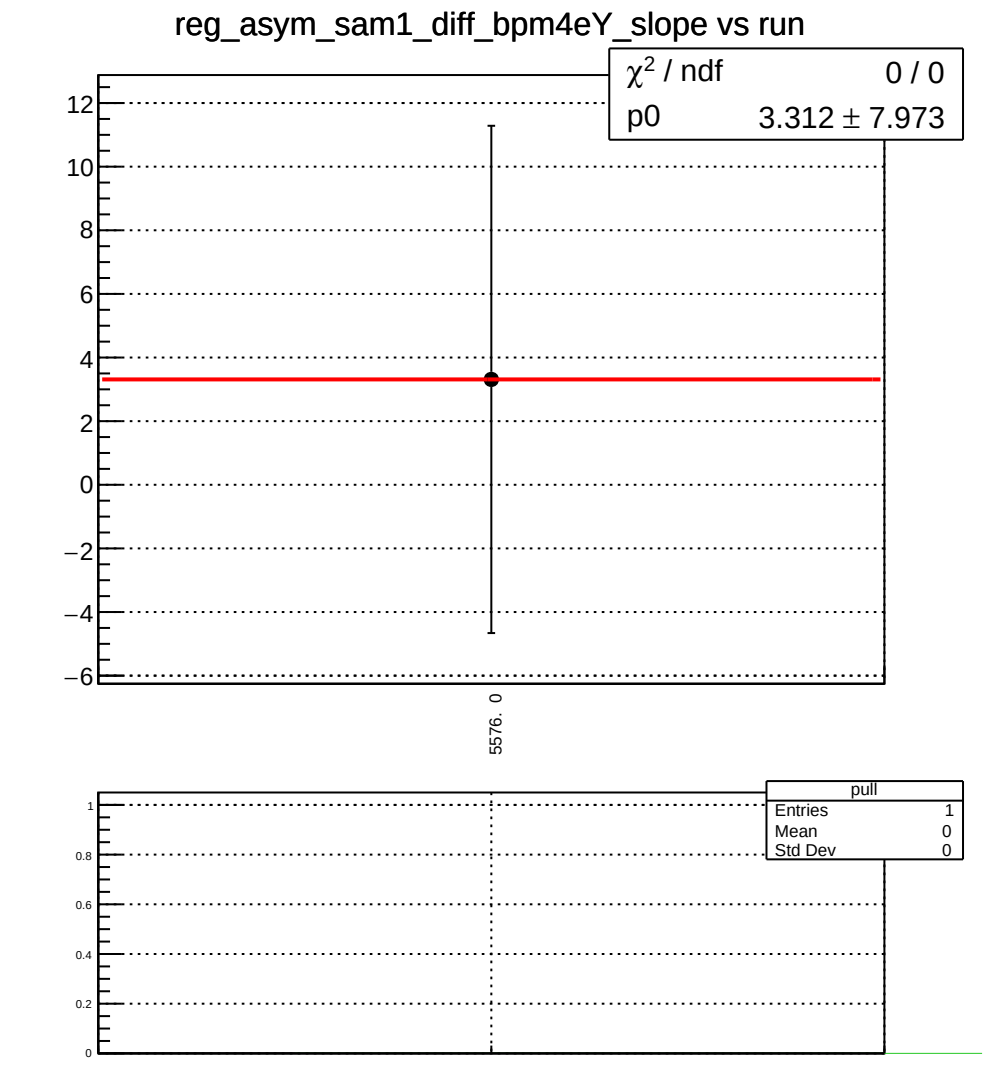

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −17.43 ± 11.41
−5
−10
−15
−20
−25
−30
5576. 0

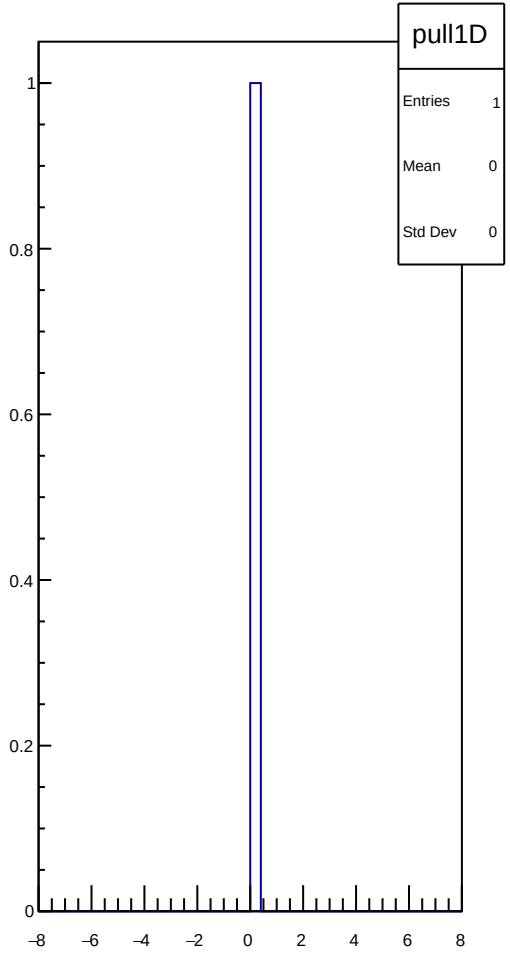

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

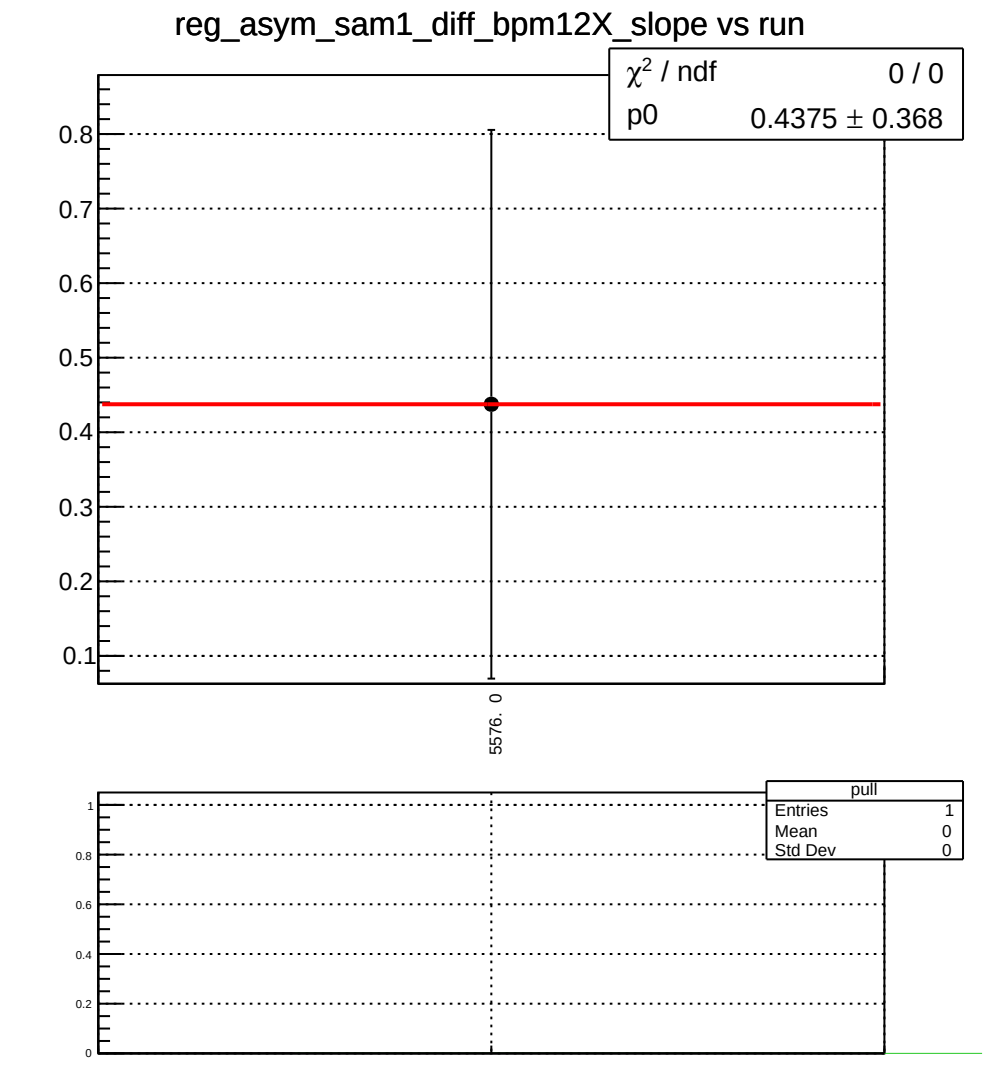

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

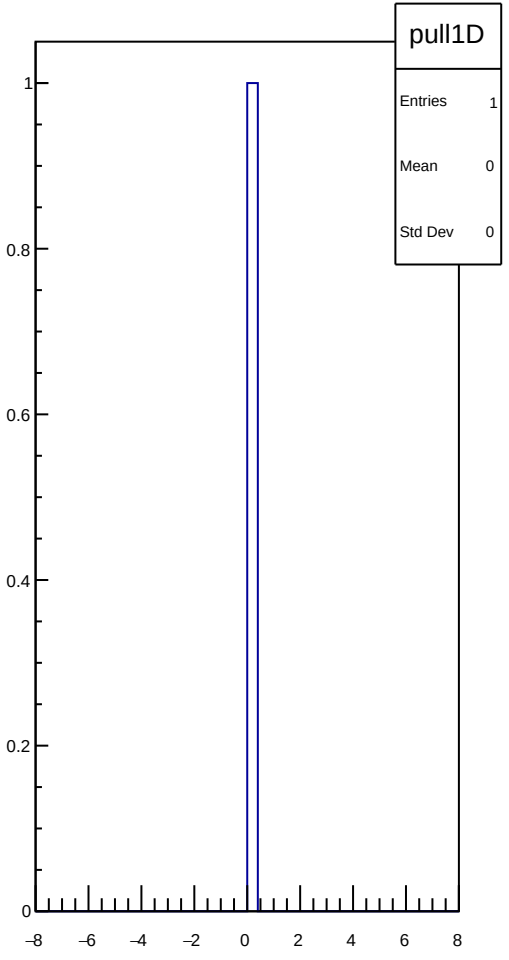

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −86.96 ± 5.985
−80
−82
−84
−86
−88
−90
−92
−94
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

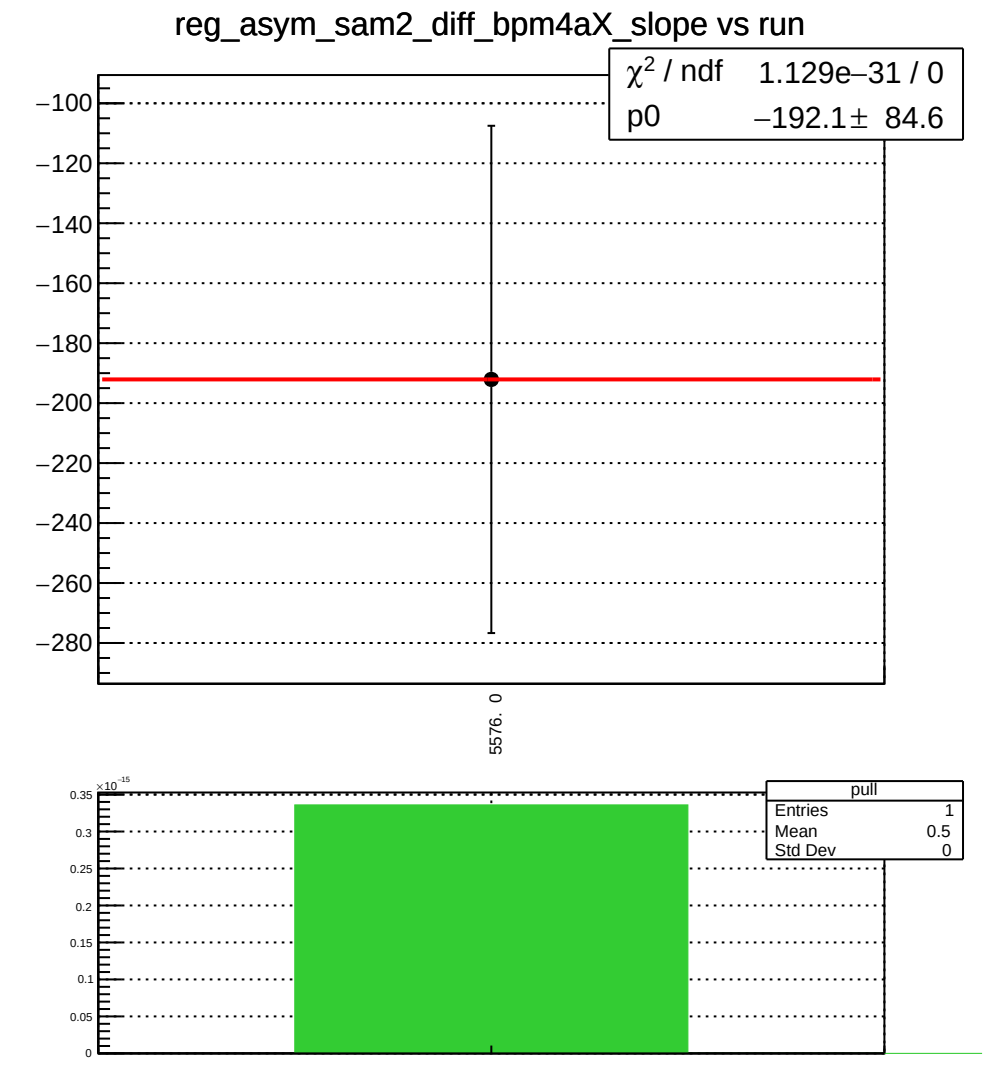

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.674e−33 / 0
p0 3.41 ± 10.85
15
10
5
0
−5
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.092e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

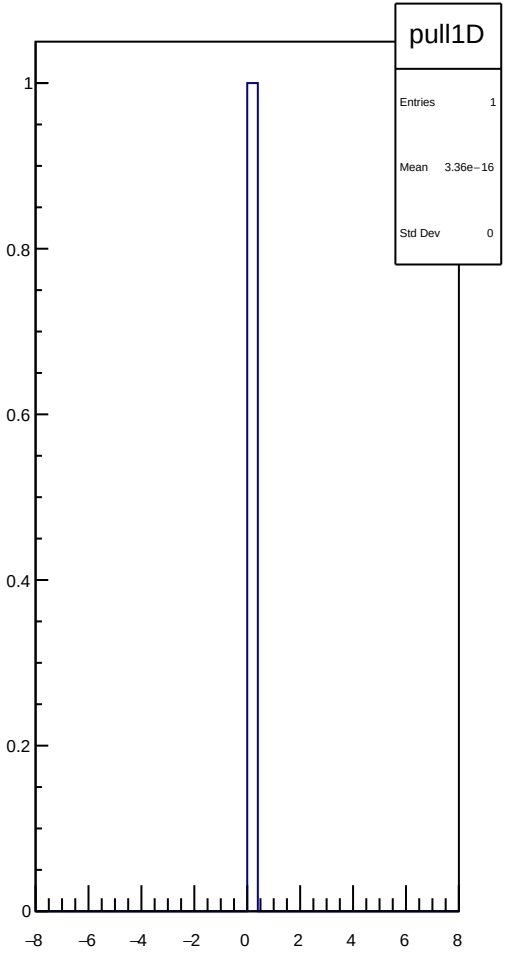

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 3.312 ± 7.973
12
10
8
6
4
2
0
−2
−4
−6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.4375 ± 0.368
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_sam2_diff_bpm4aX_slope vs run
χ2 / ndf 1.129e−31 / 0
p0 −192.1± 84.6
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
5576. 0
×10−15
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0


pull1D
Entries 1
Mean 3.36e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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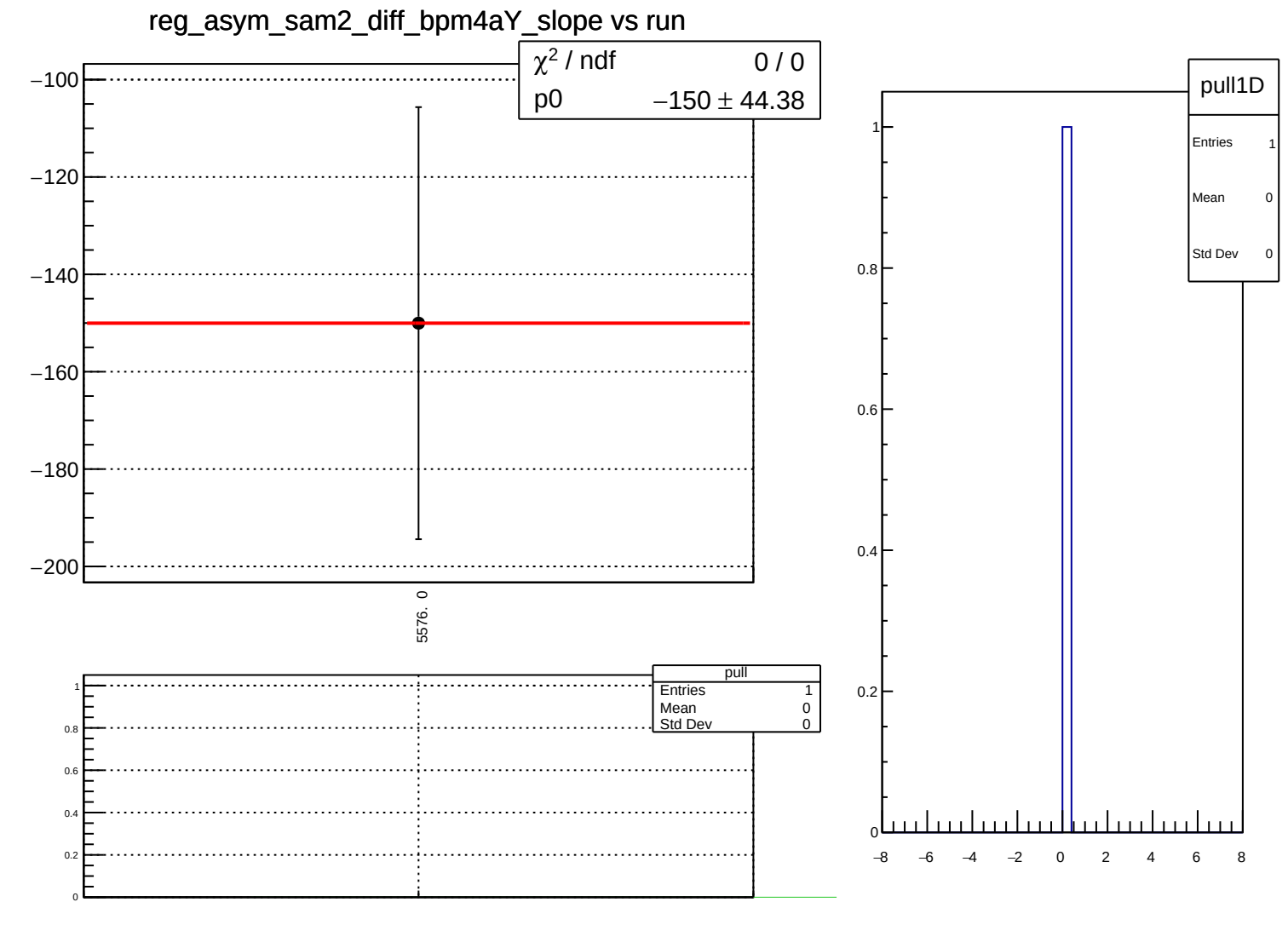
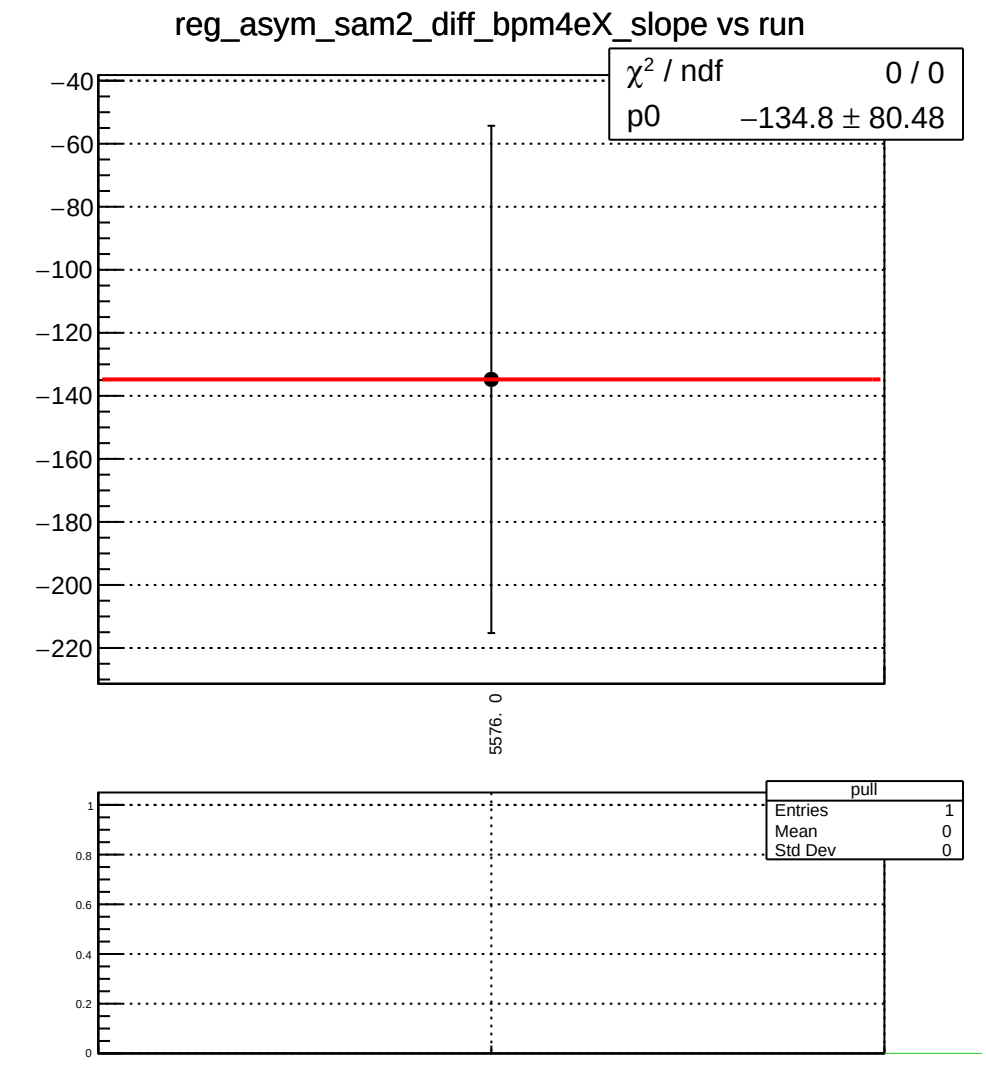
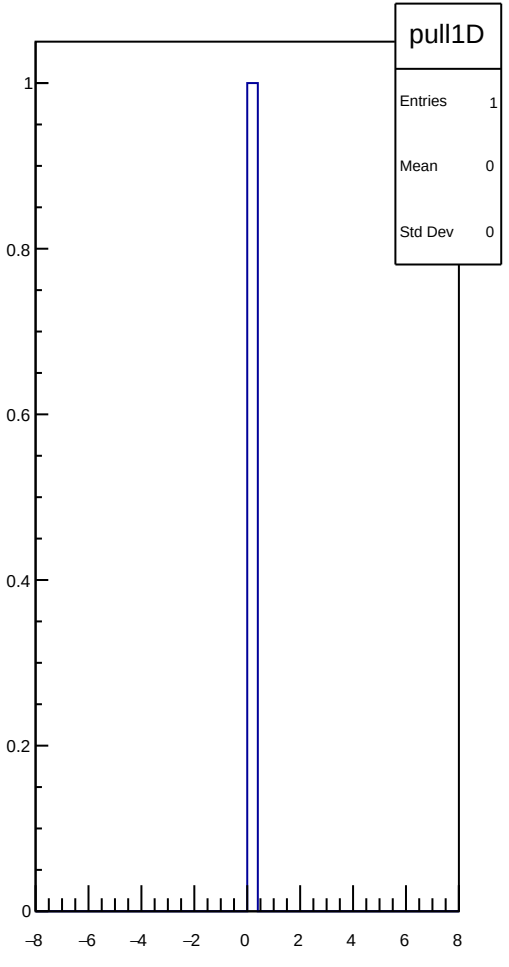
0
2
4
6
8


reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −150 ± 44.38
−100
−120
−140
−160
−180
−200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −134.8 ± 80.48
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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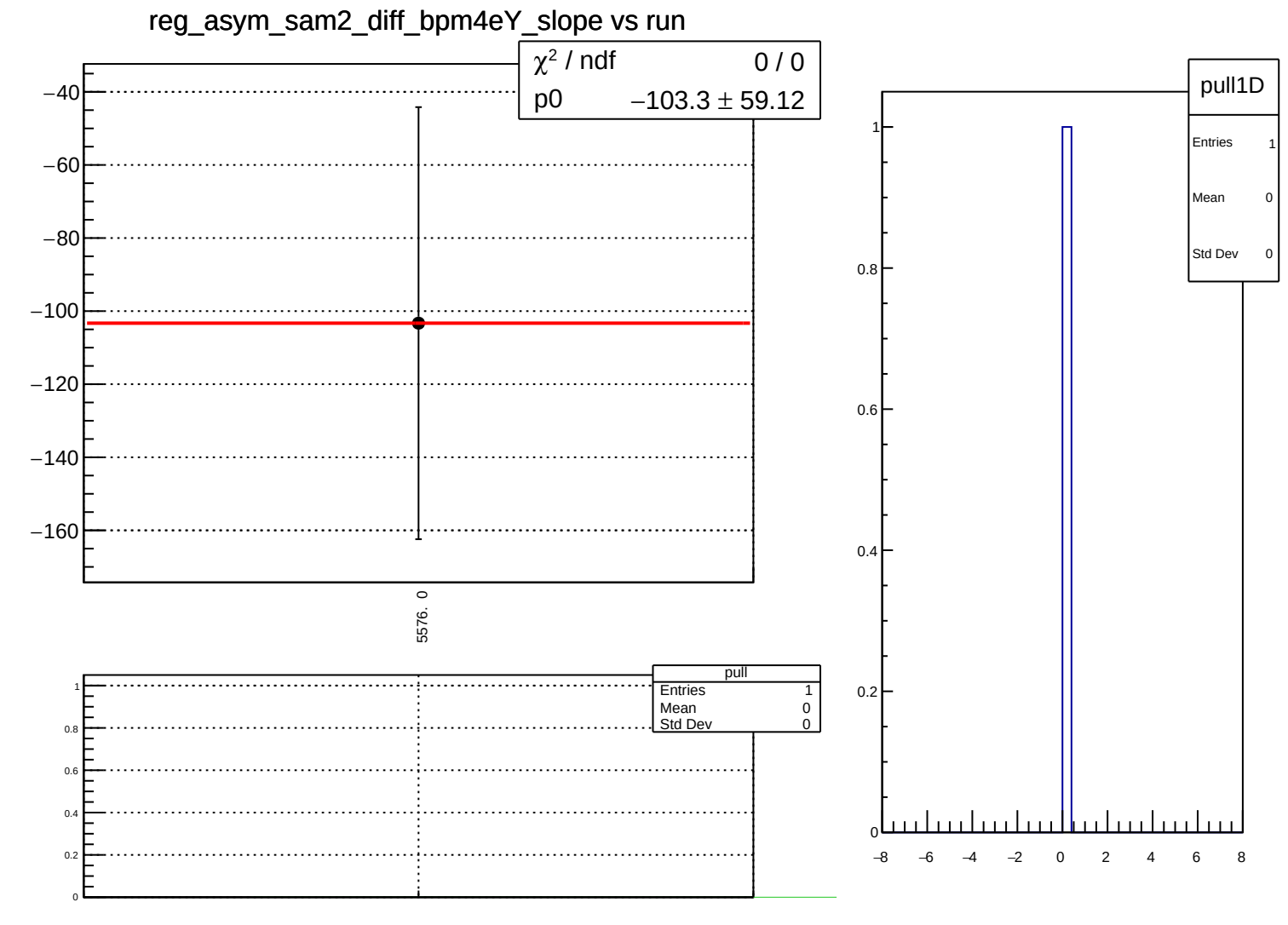
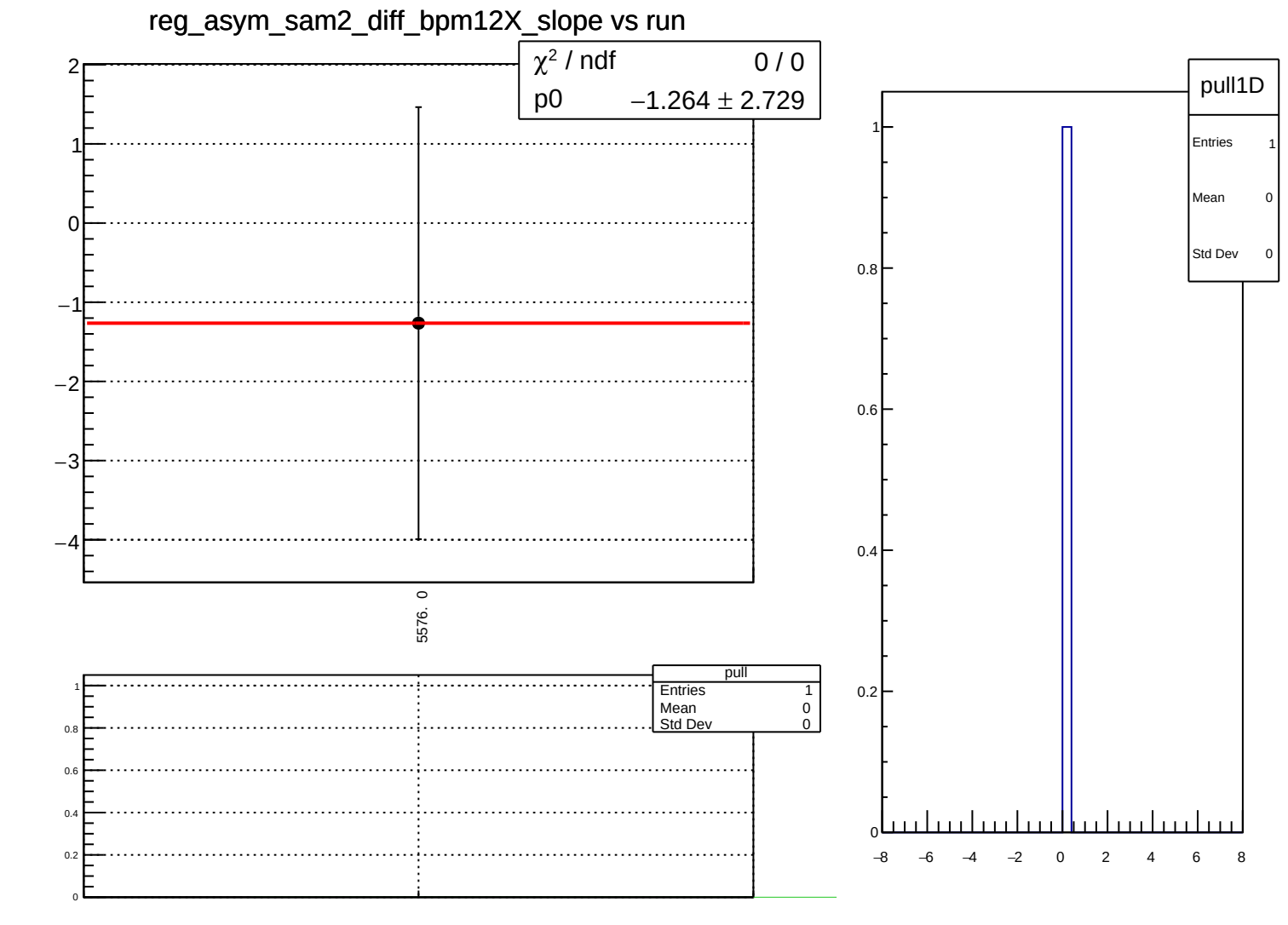
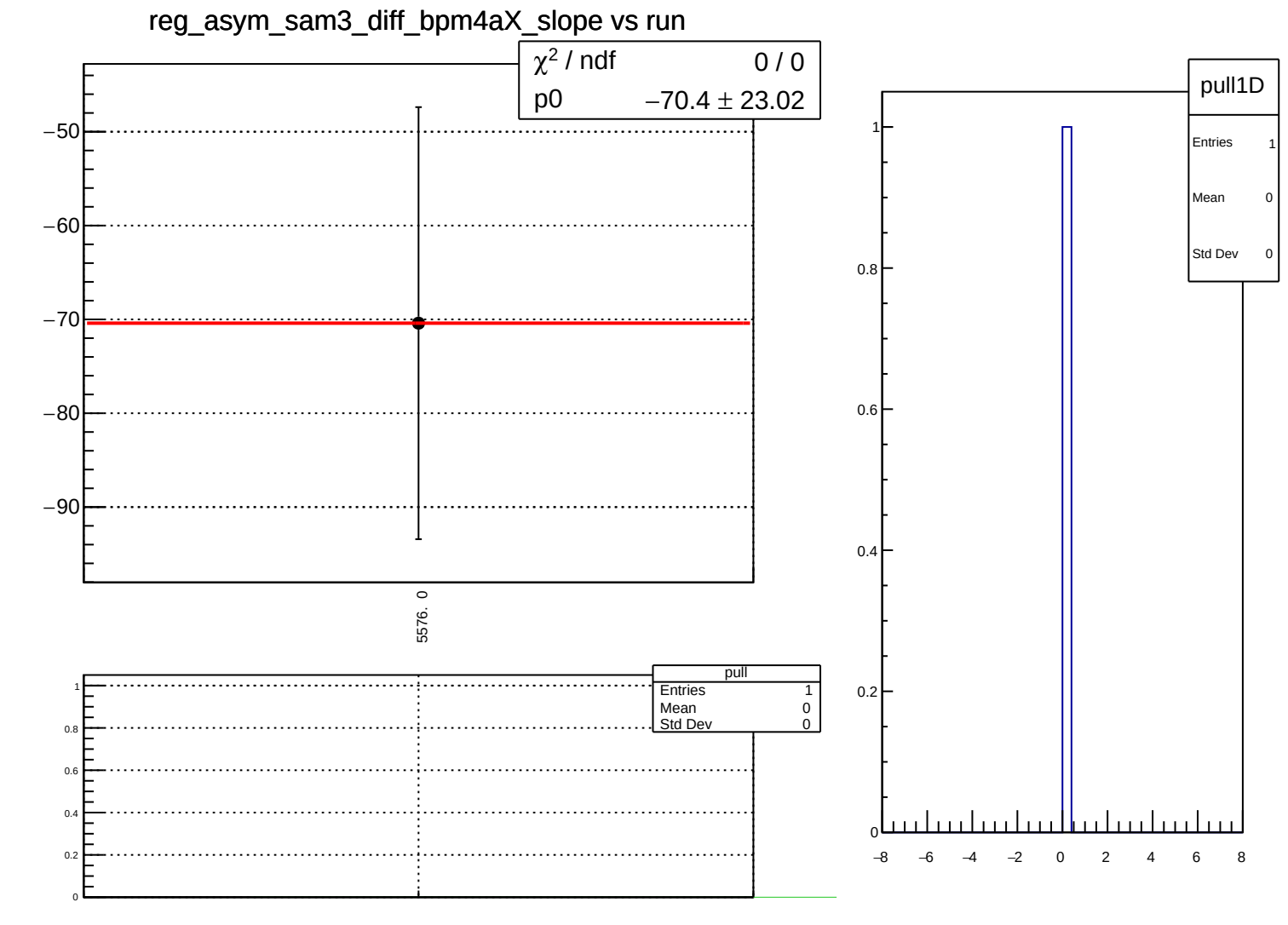
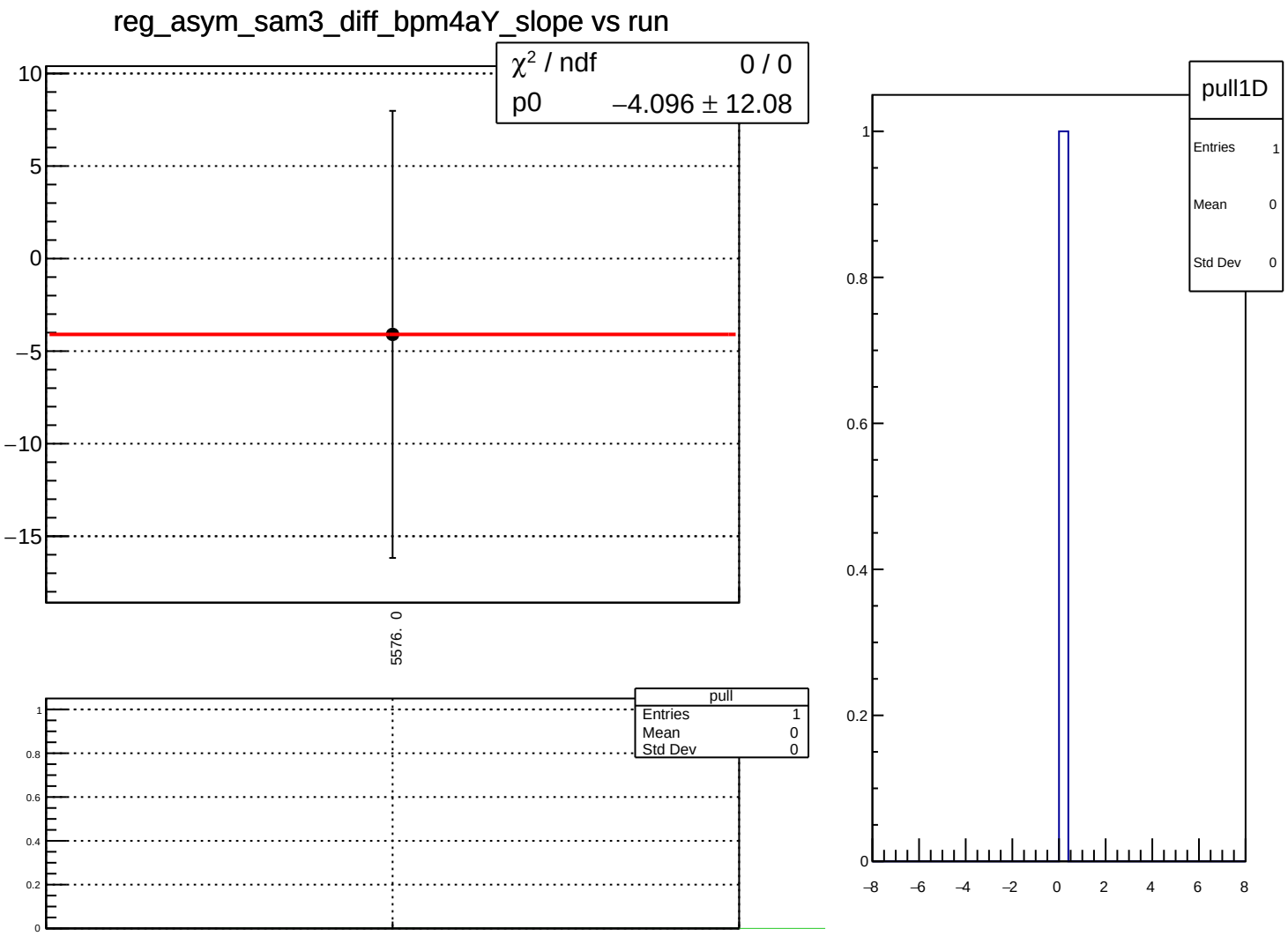
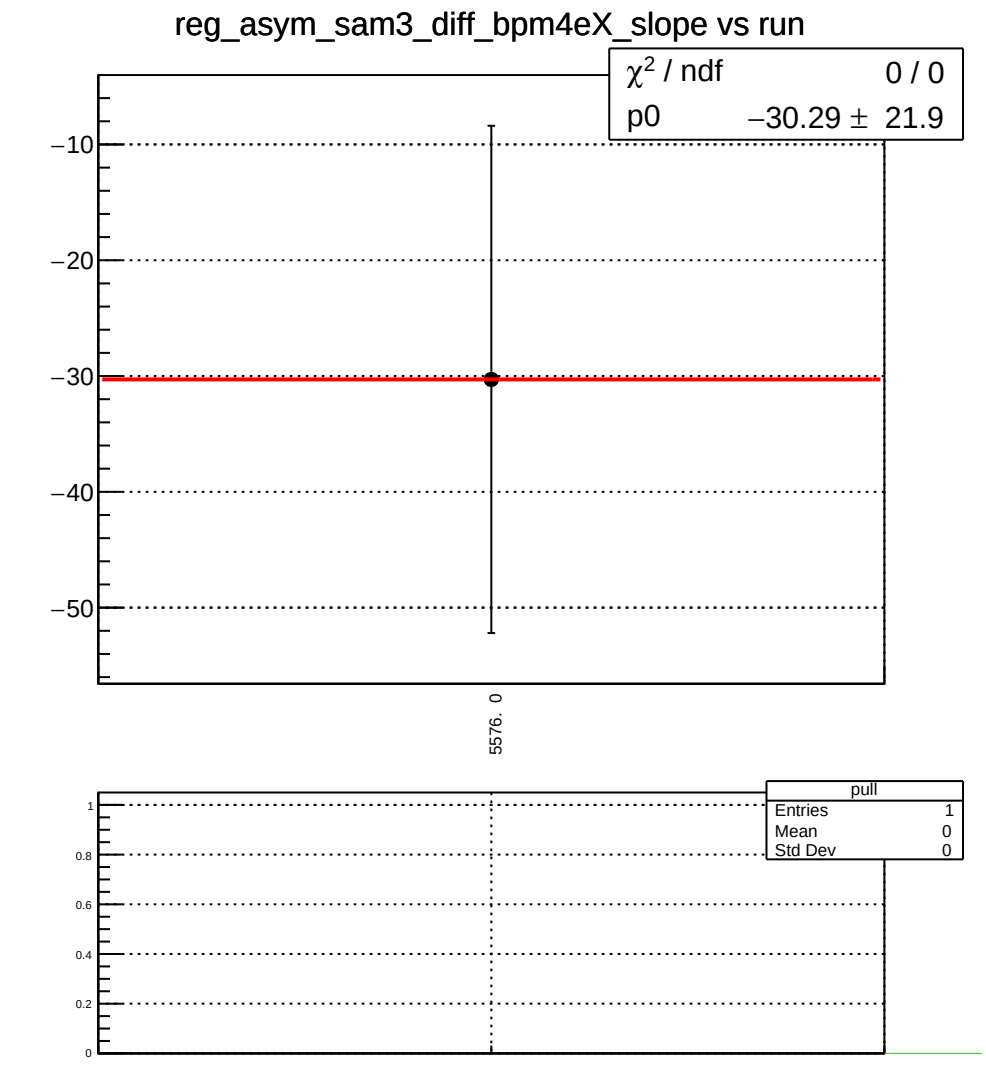
0
2
4
6
8

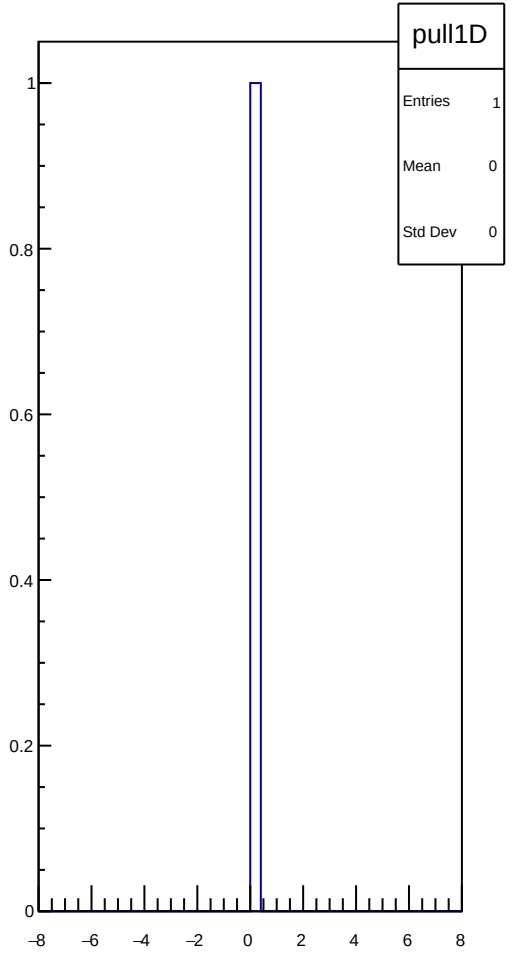

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −103.3 ± 59.12
−40
−60
−80
−100
−120
−140
−160
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

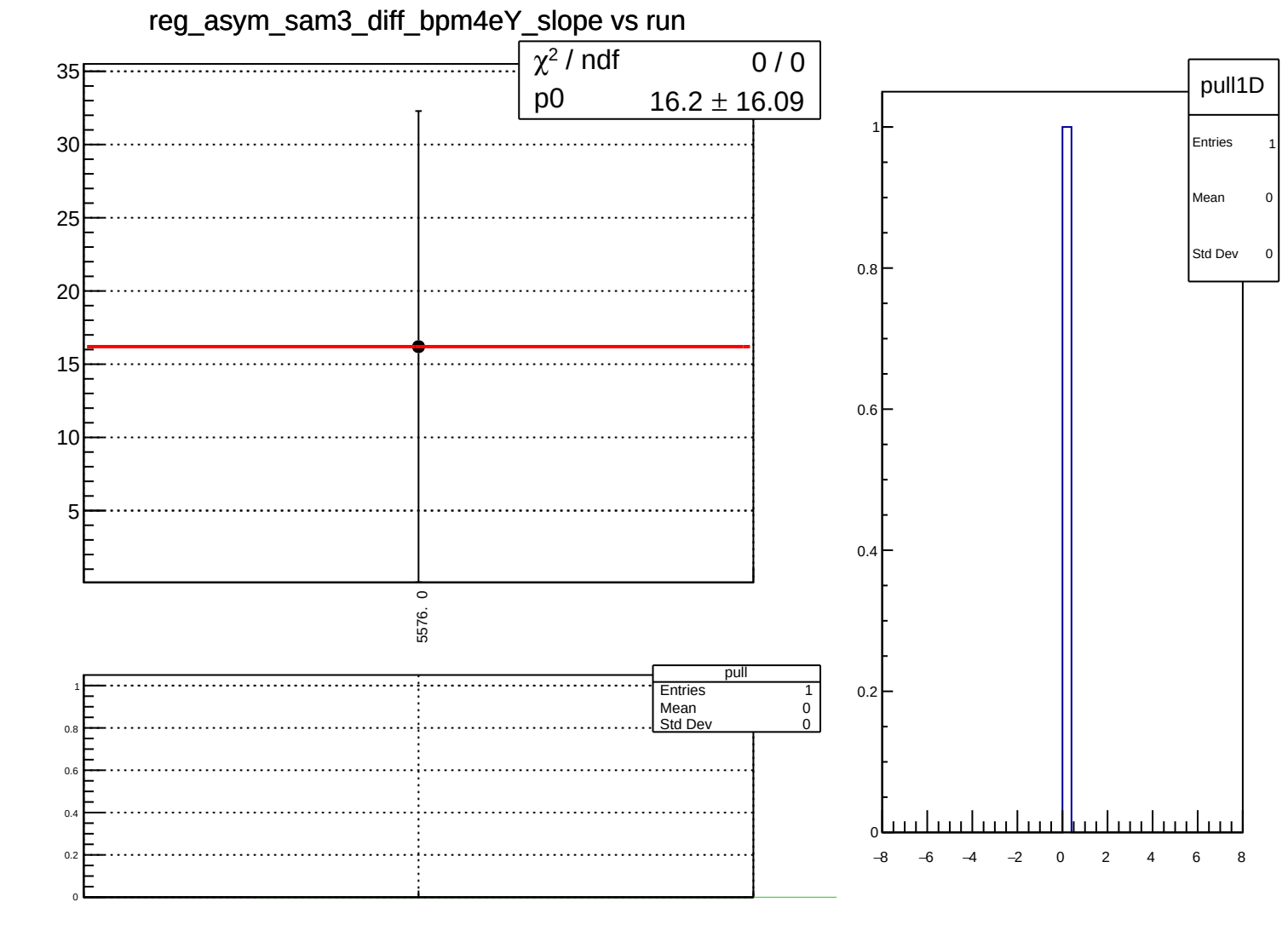

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −1.264 ± 2.729
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

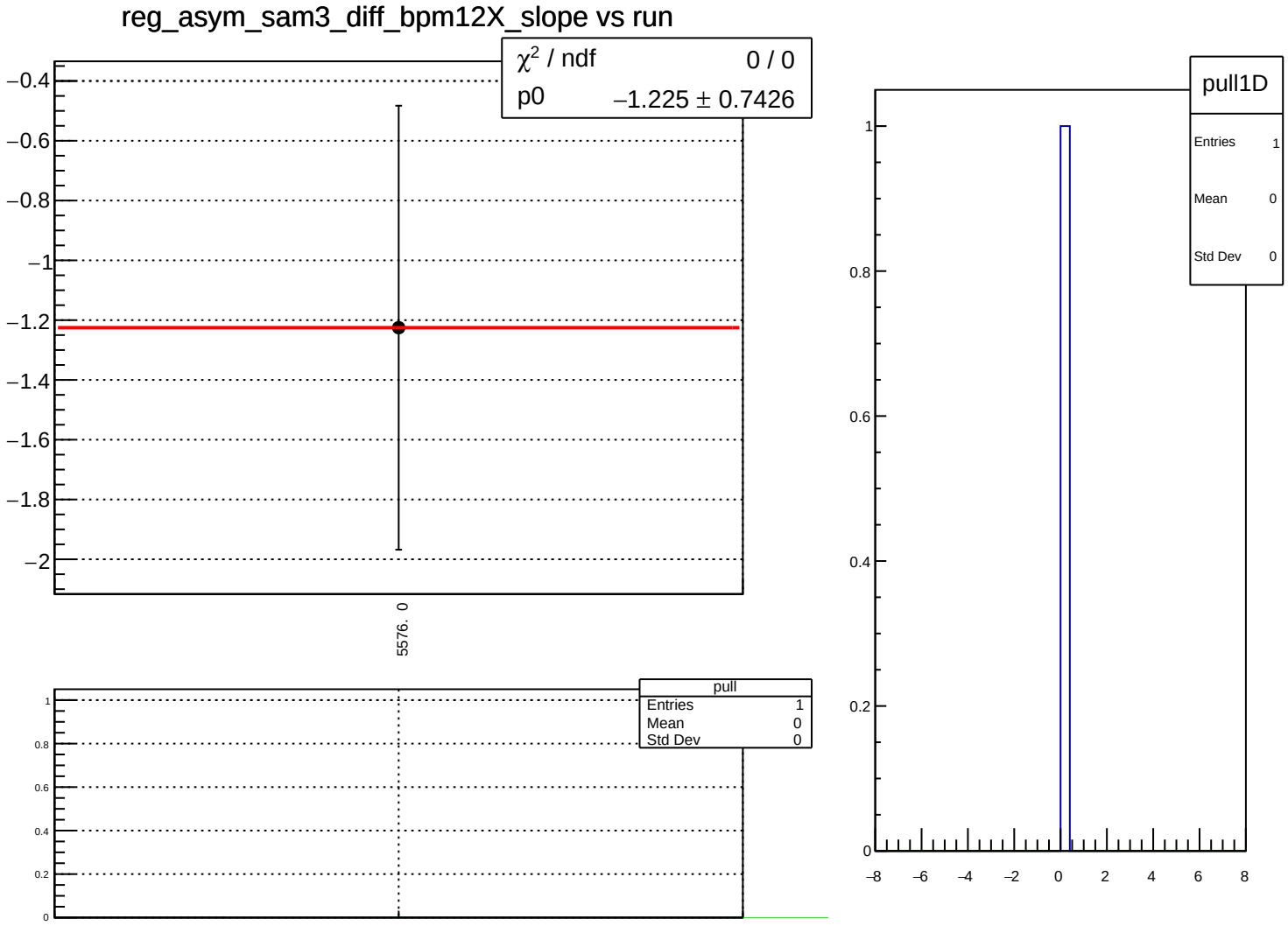

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −70.4 ± 23.02
−50
−60
−70
−80
−90
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

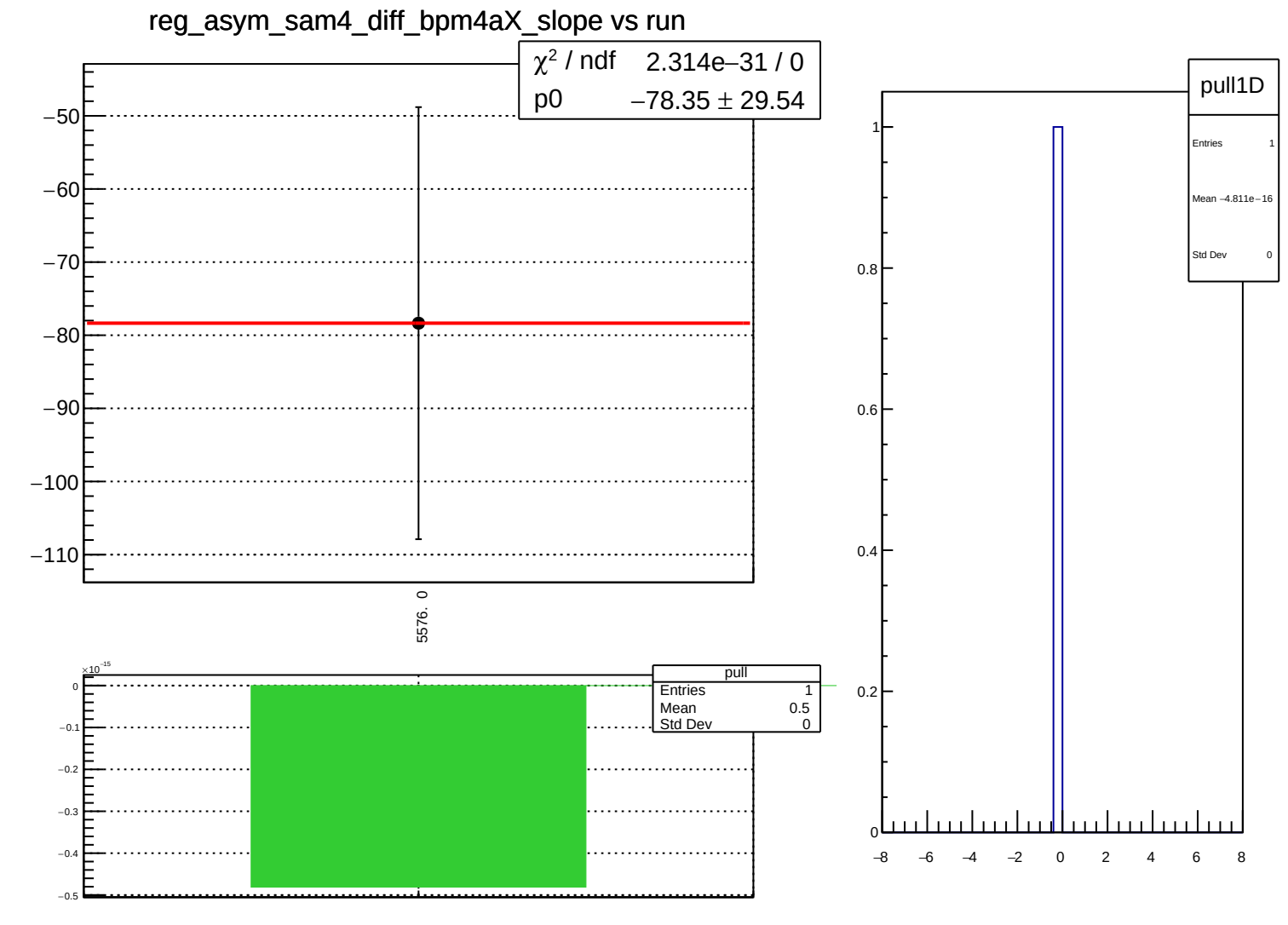

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −4.096 ± 12.08
10
5
0
−5
−10
−15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

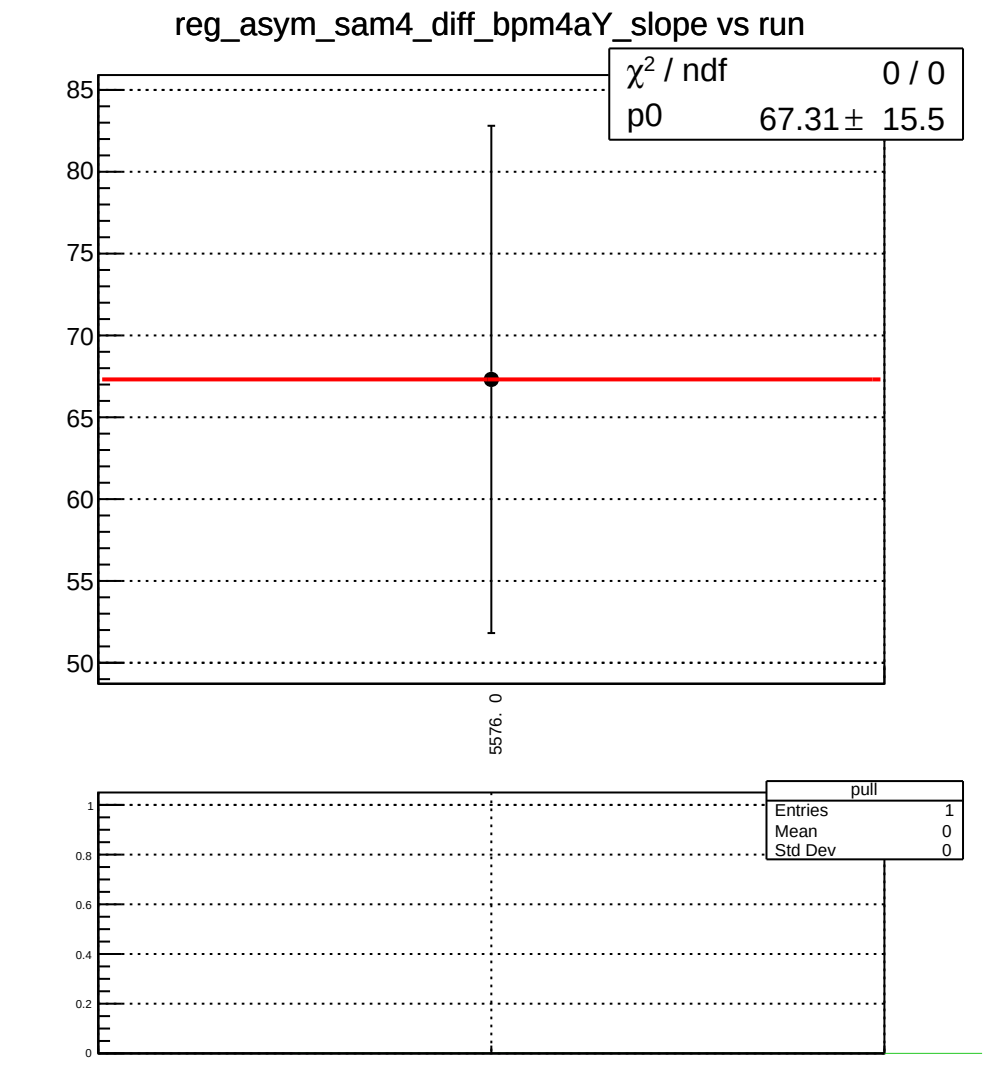

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −30.29 ± 21.9
−10
−20
−30
−40
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

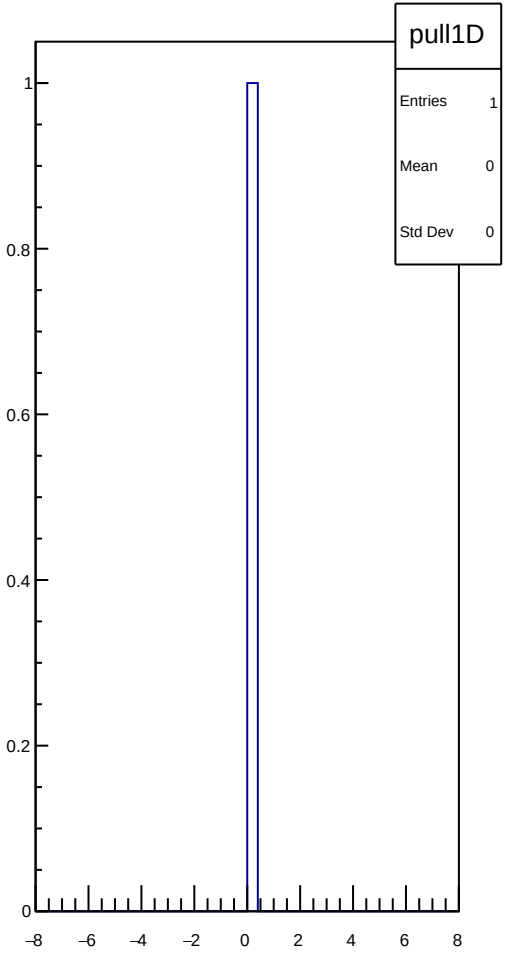

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

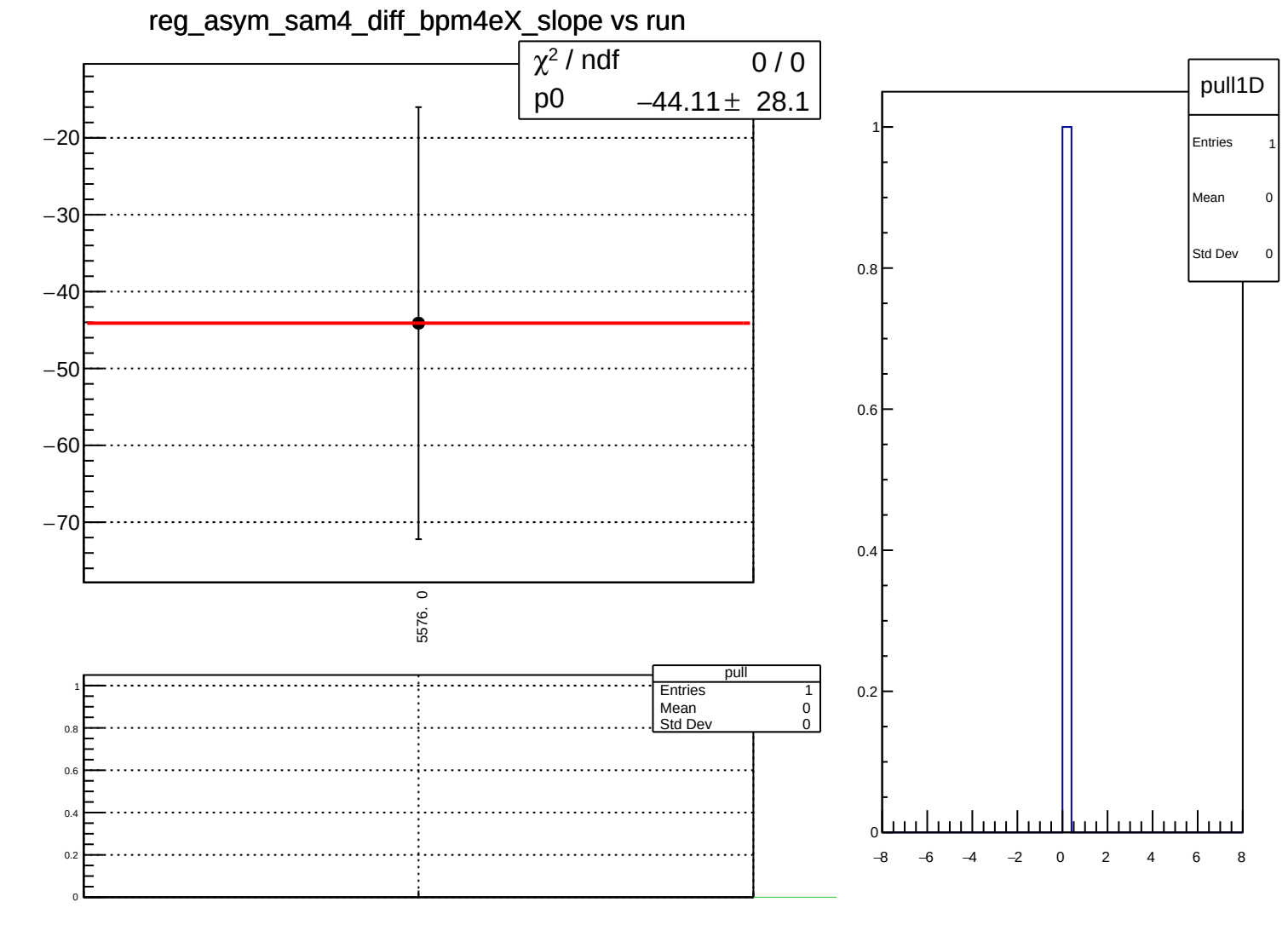

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 16.2 ± 16.09
35
30
25
20
15
10
5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

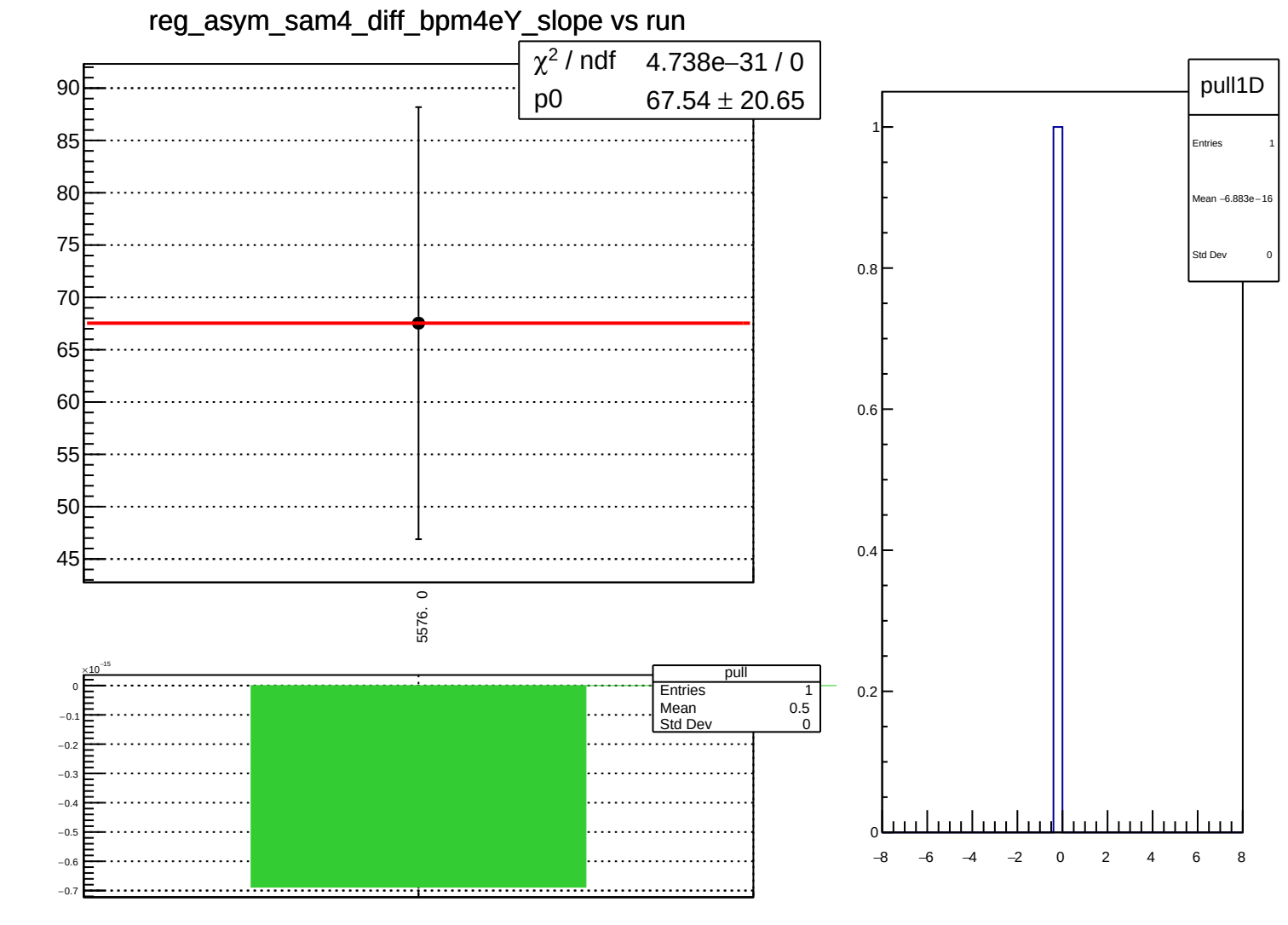

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −1.225 ± 0.7426
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

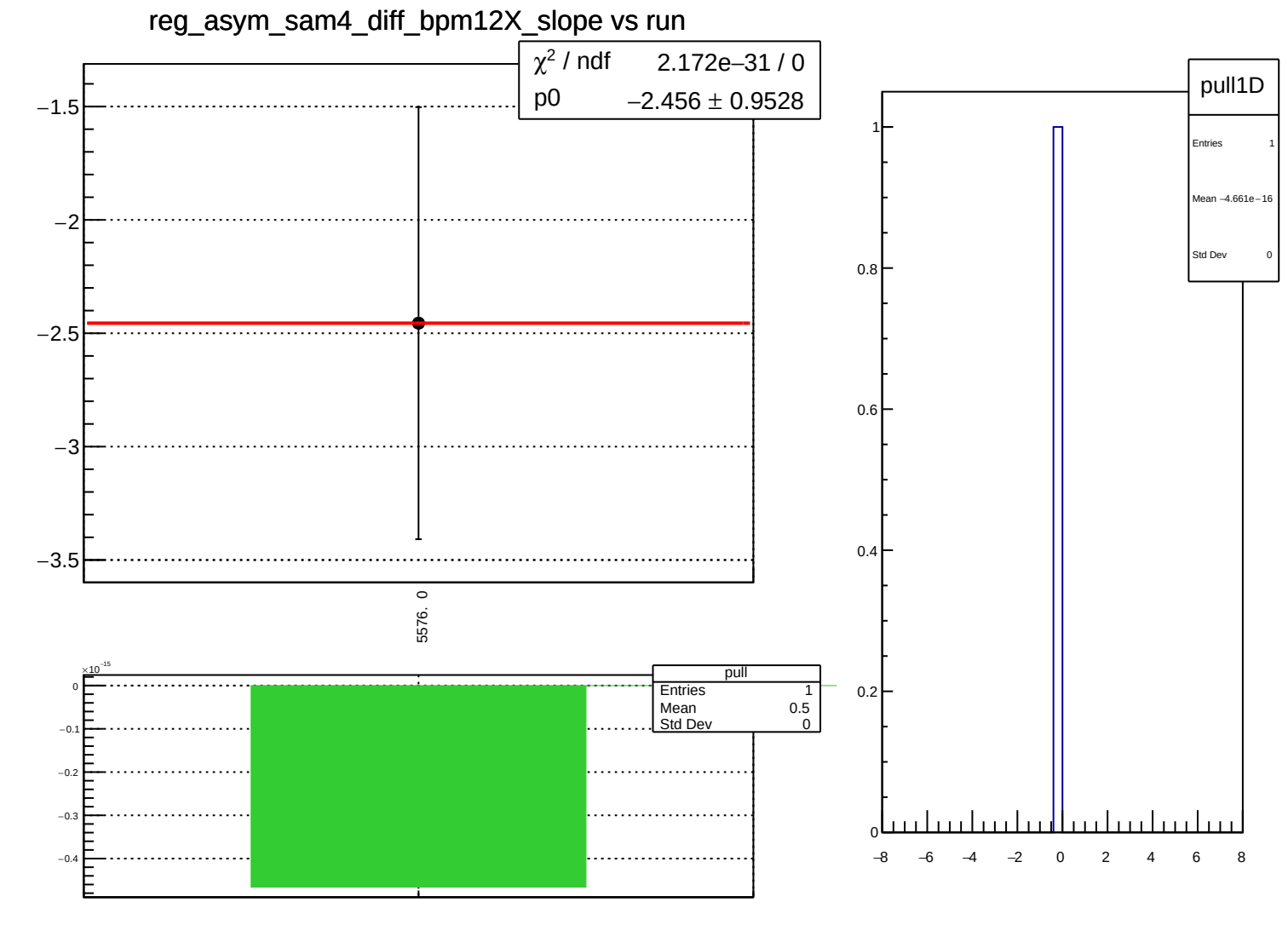

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 2.314e−31 / 0
p0 −78.35 ± 29.54
−50
−60
−70
−80
−90
−100
−110
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.811e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 67.31 ± 15.5
85
80
75
70
65
60
55
50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −44.11 ± 28.1
−20
−30
−40
−50
−60
−70
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.738e−31 / 0
p0 67.54 ± 20.65
90
85
80
75
70
65
60
55
50
45
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.883e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.172e−31 / 0
p0 −2.456 ± 0.9528
−1.5
−2
−2.5
−3
−3.5
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.661e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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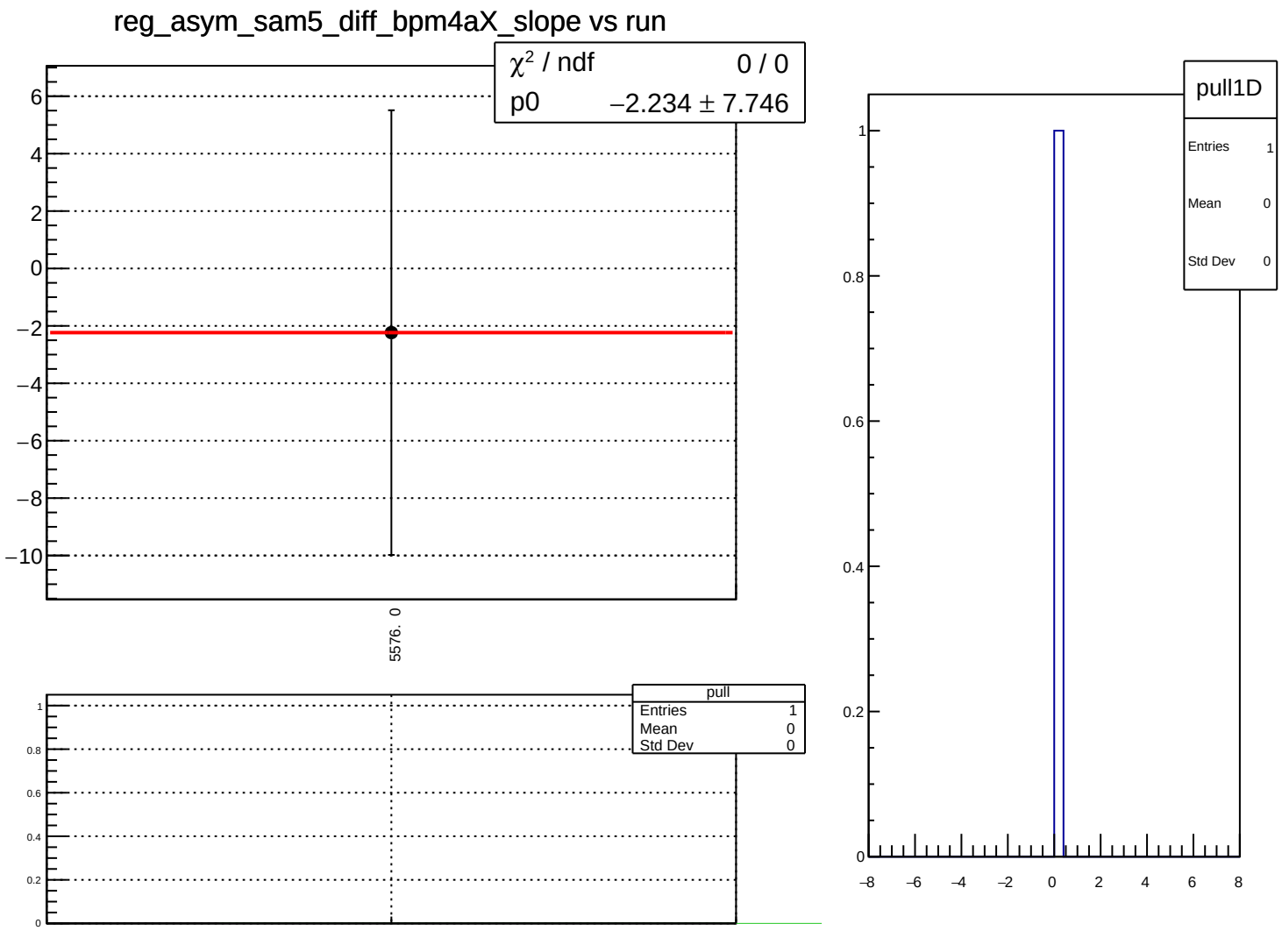
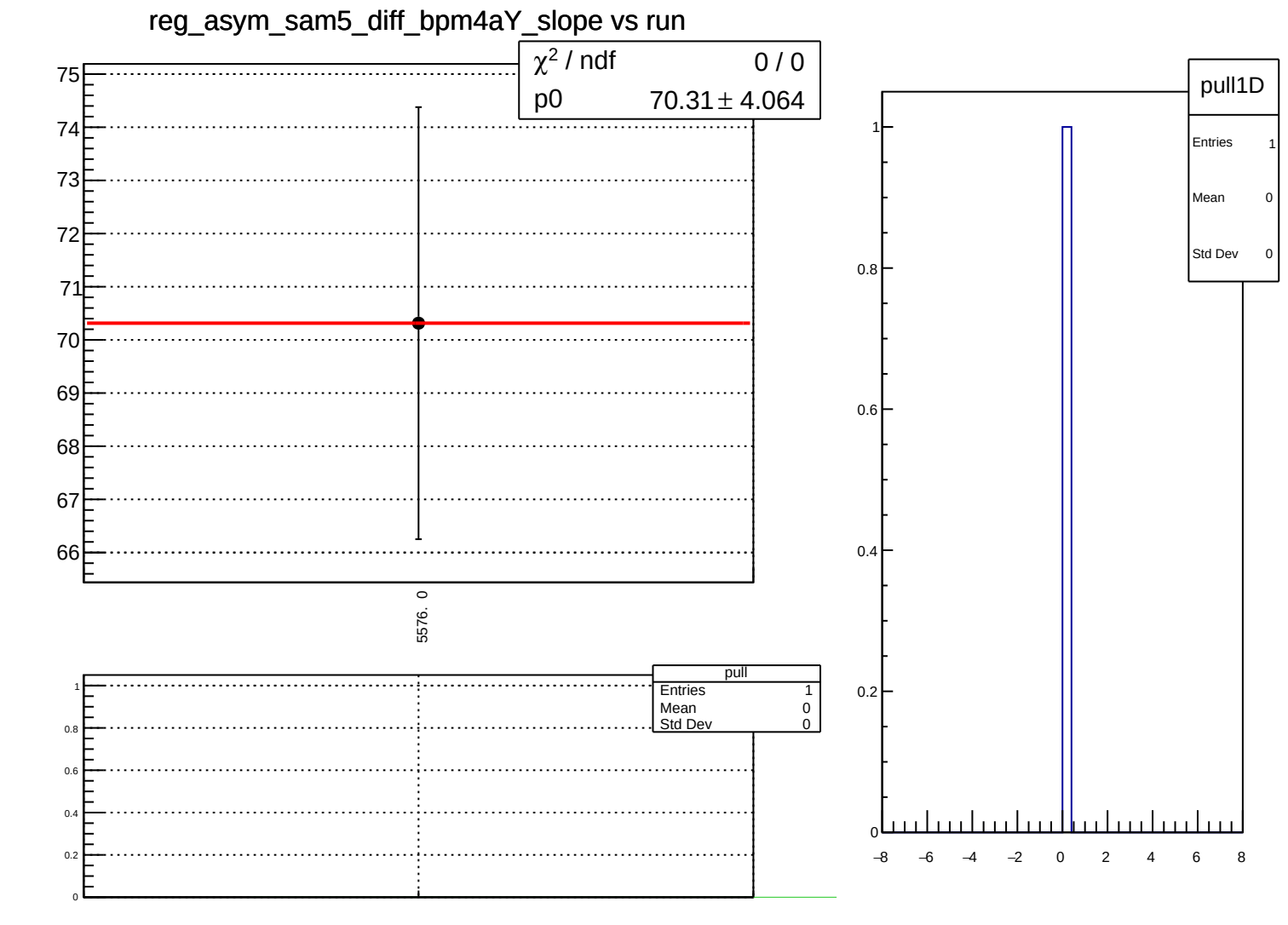
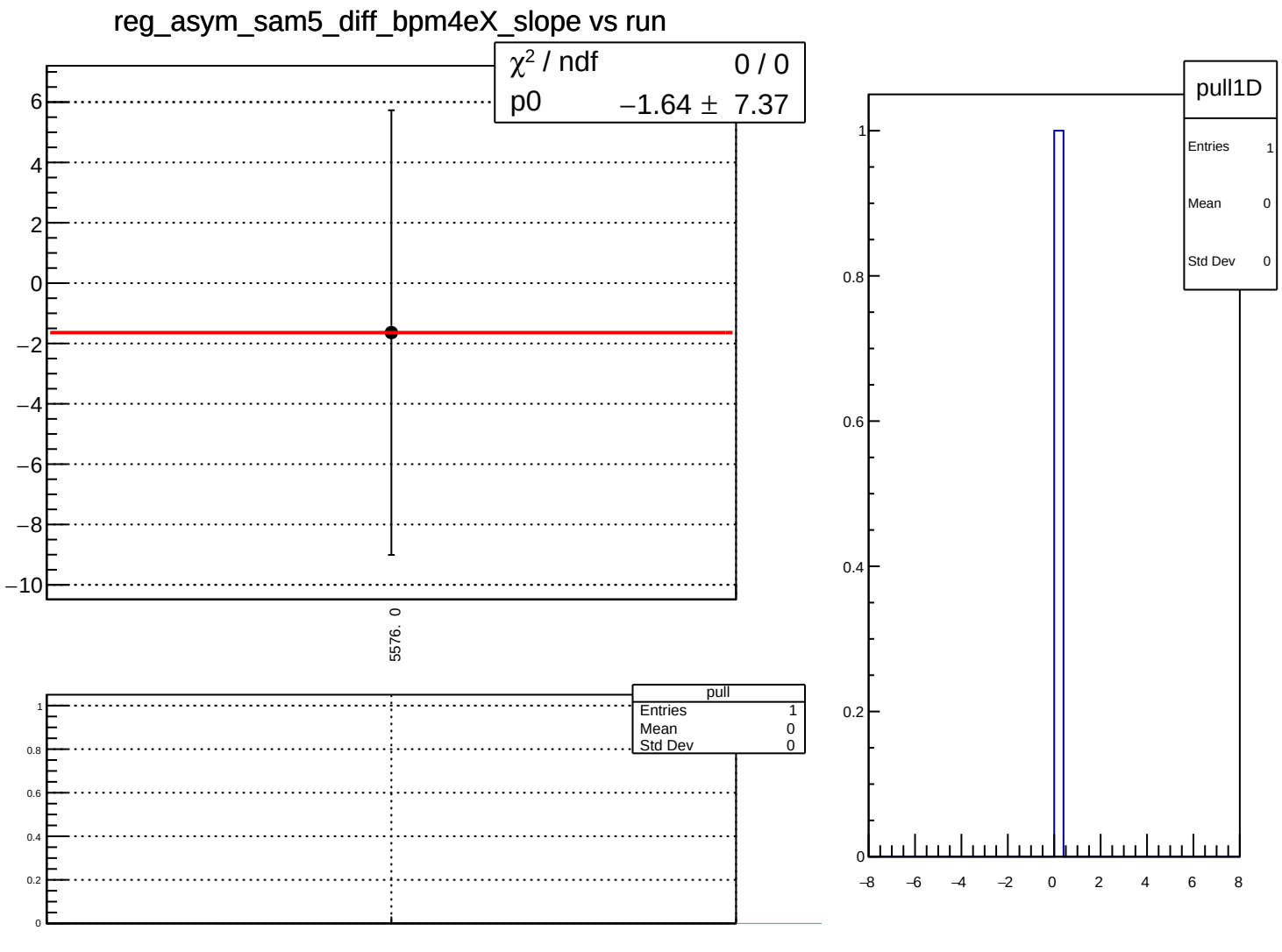
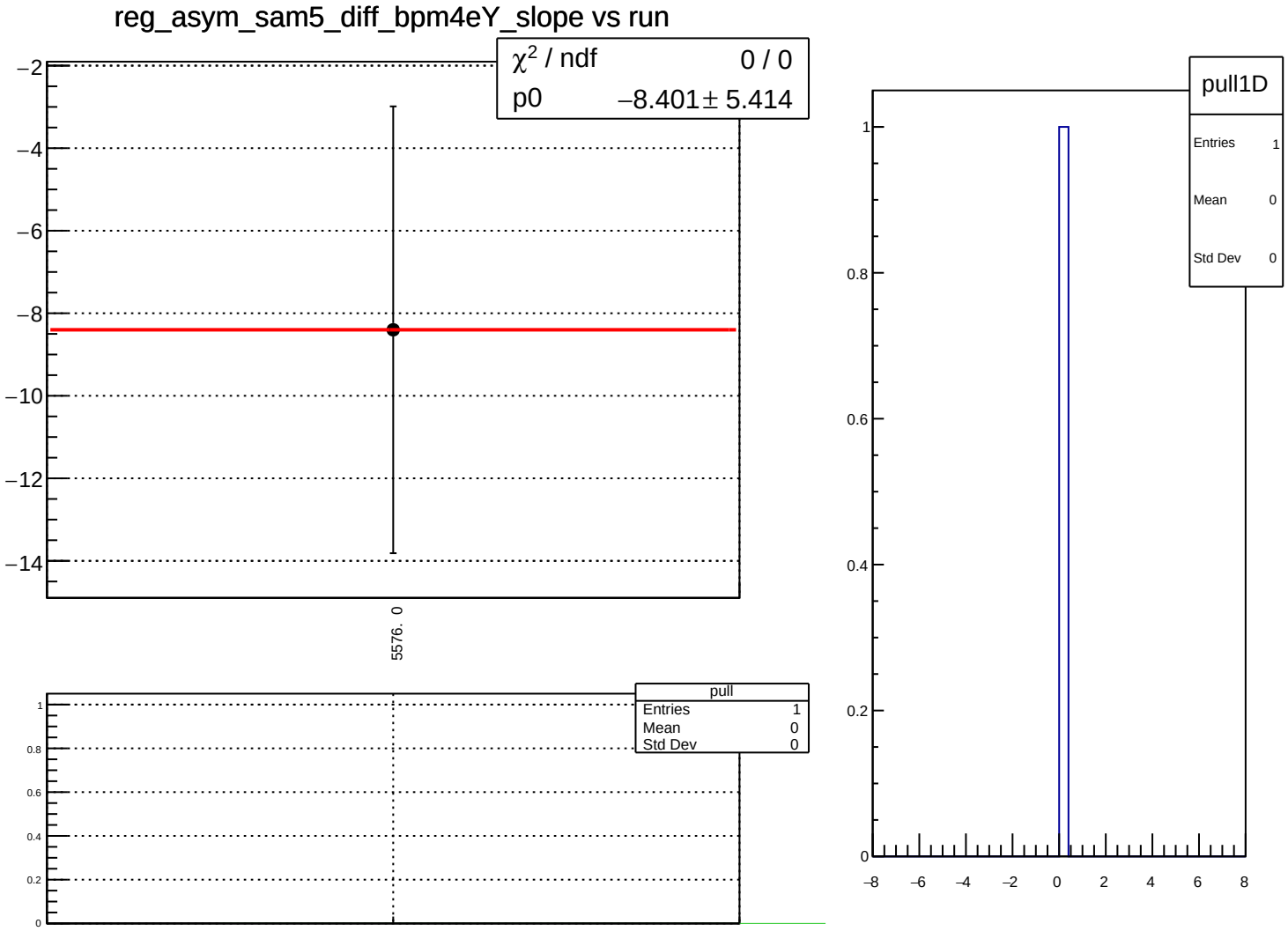
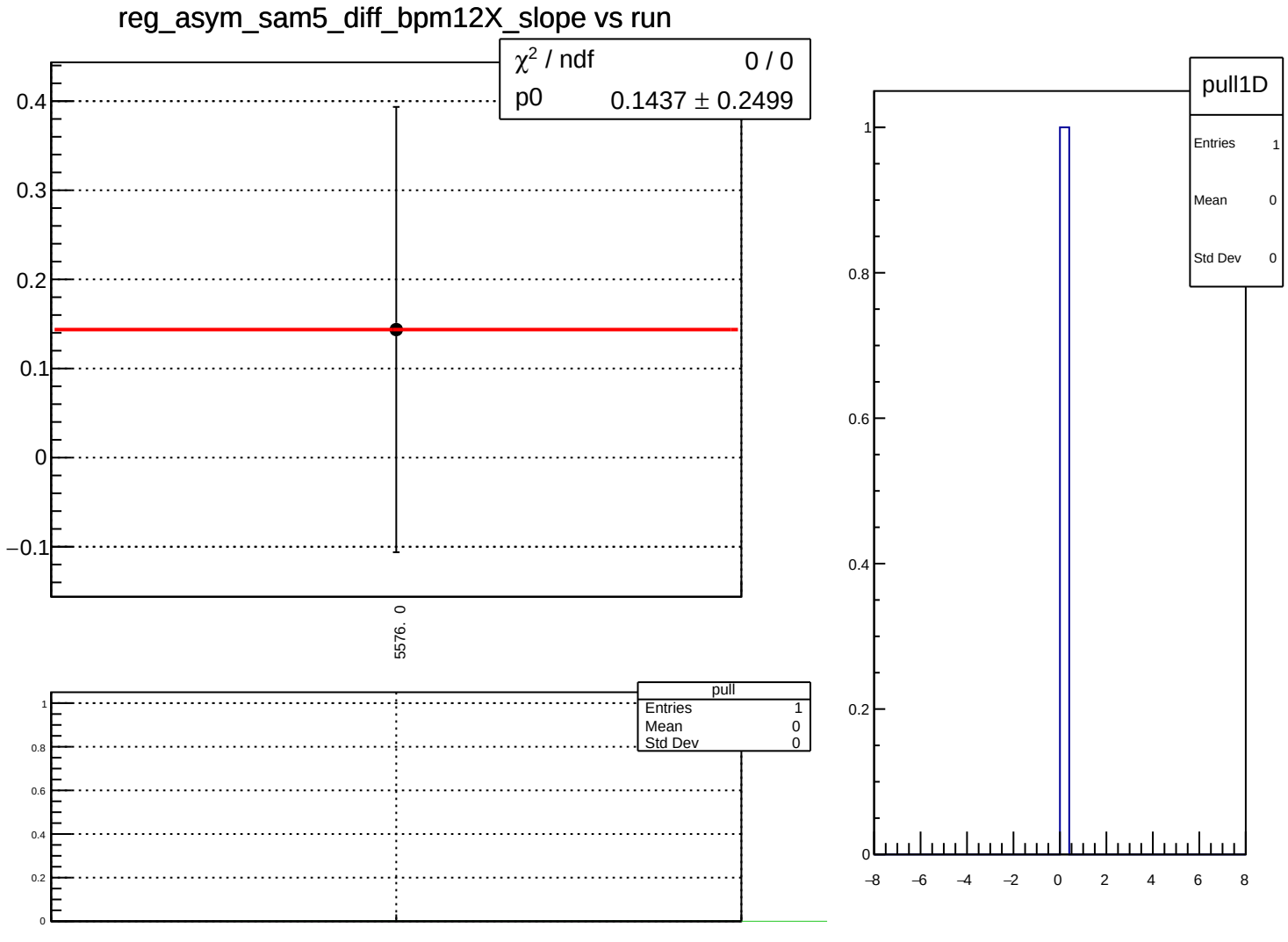
0
2
4
6
8

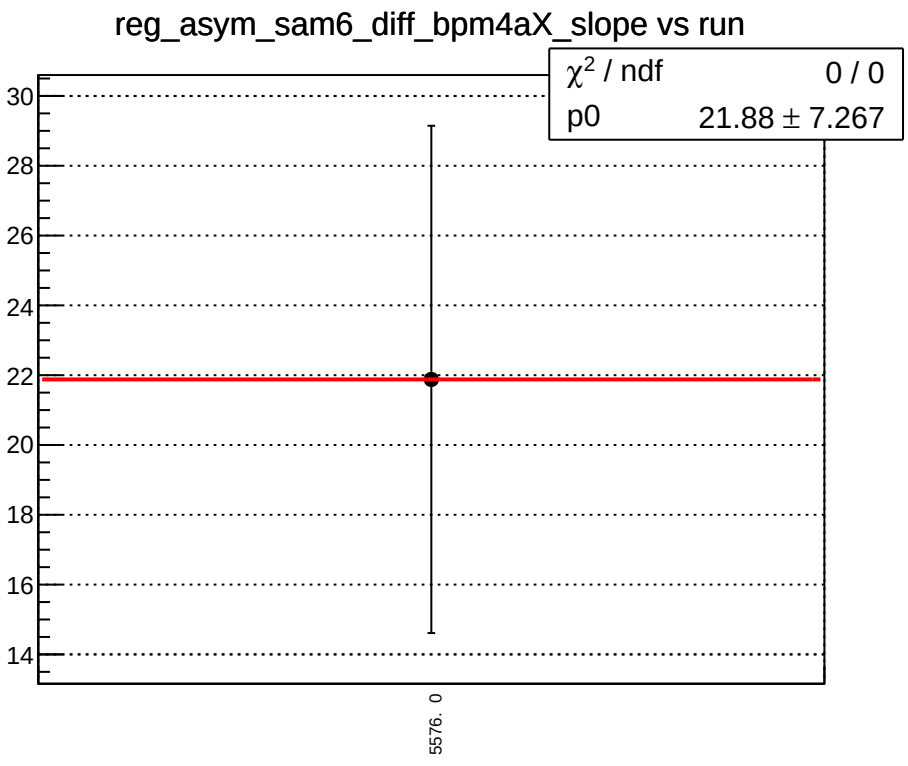

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −2.234 ± 7.746
6
4
2
0
−2
−4
−6
−8
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

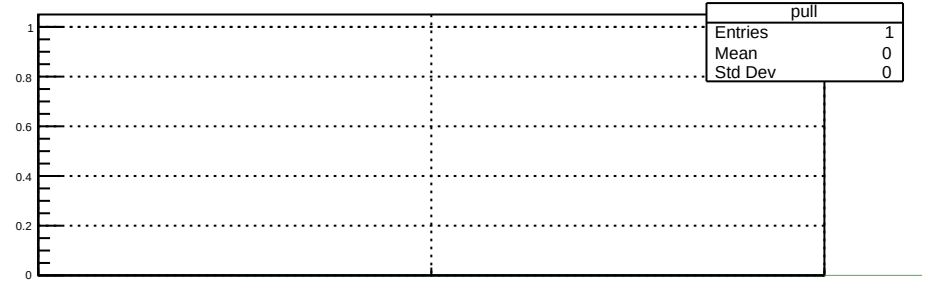

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 70.31 ± 4.064
75
74
73
72
71
70
69
68
67
66
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

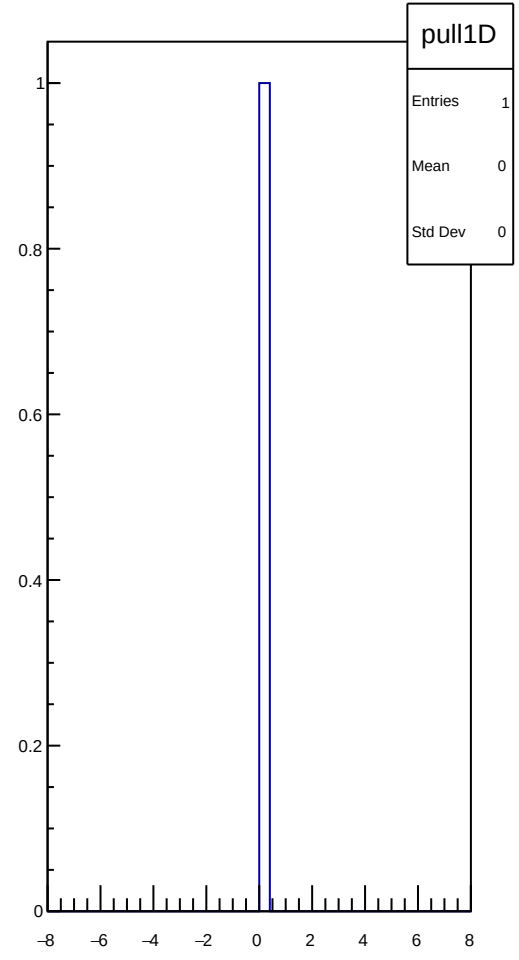

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −1.64 ± 7.37
6
4
2
0
−2
−4
−6
−8
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

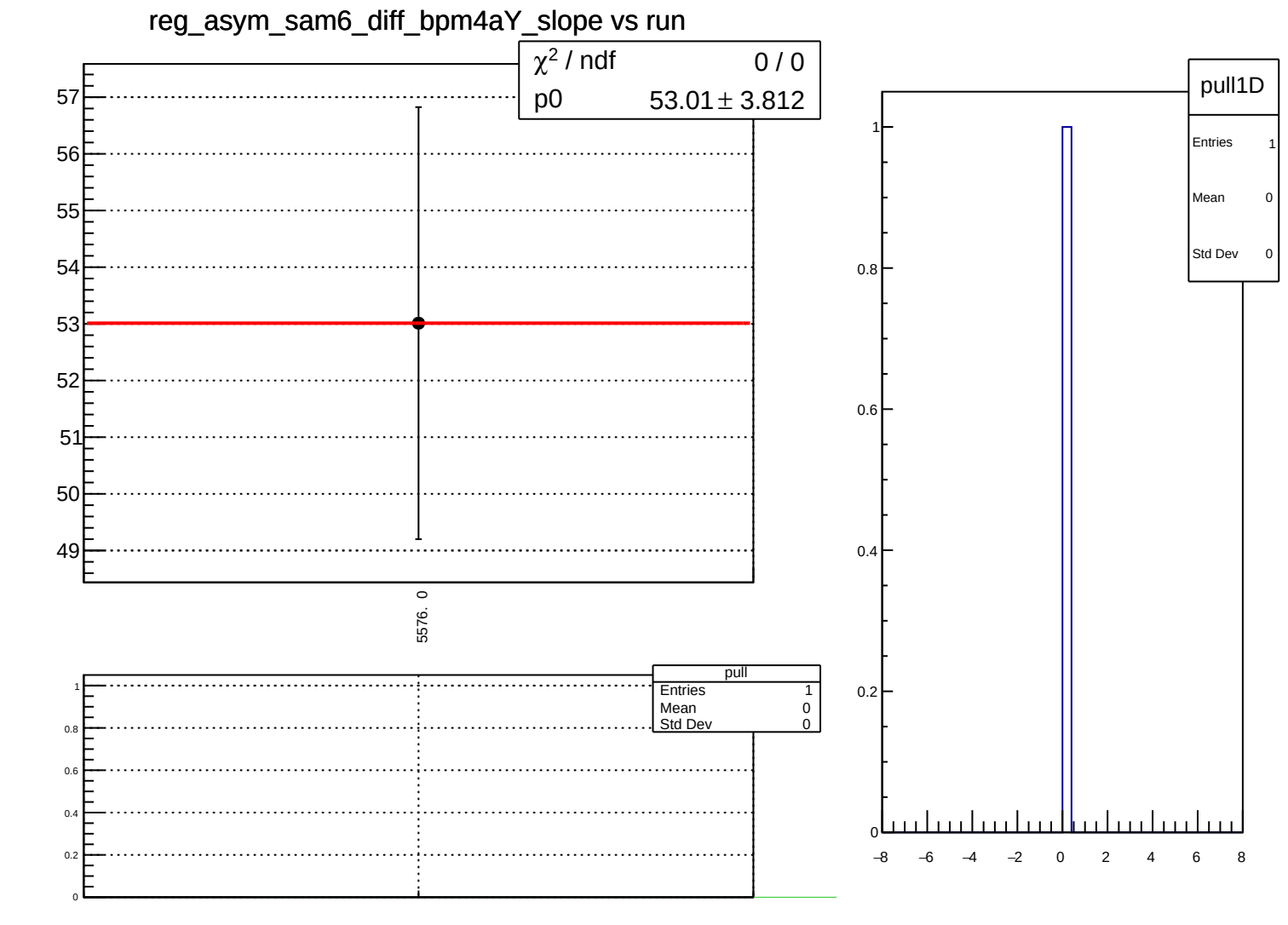

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −8.401 ± 5.414
−2
−4
−6
−8
−10
−12
−14
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

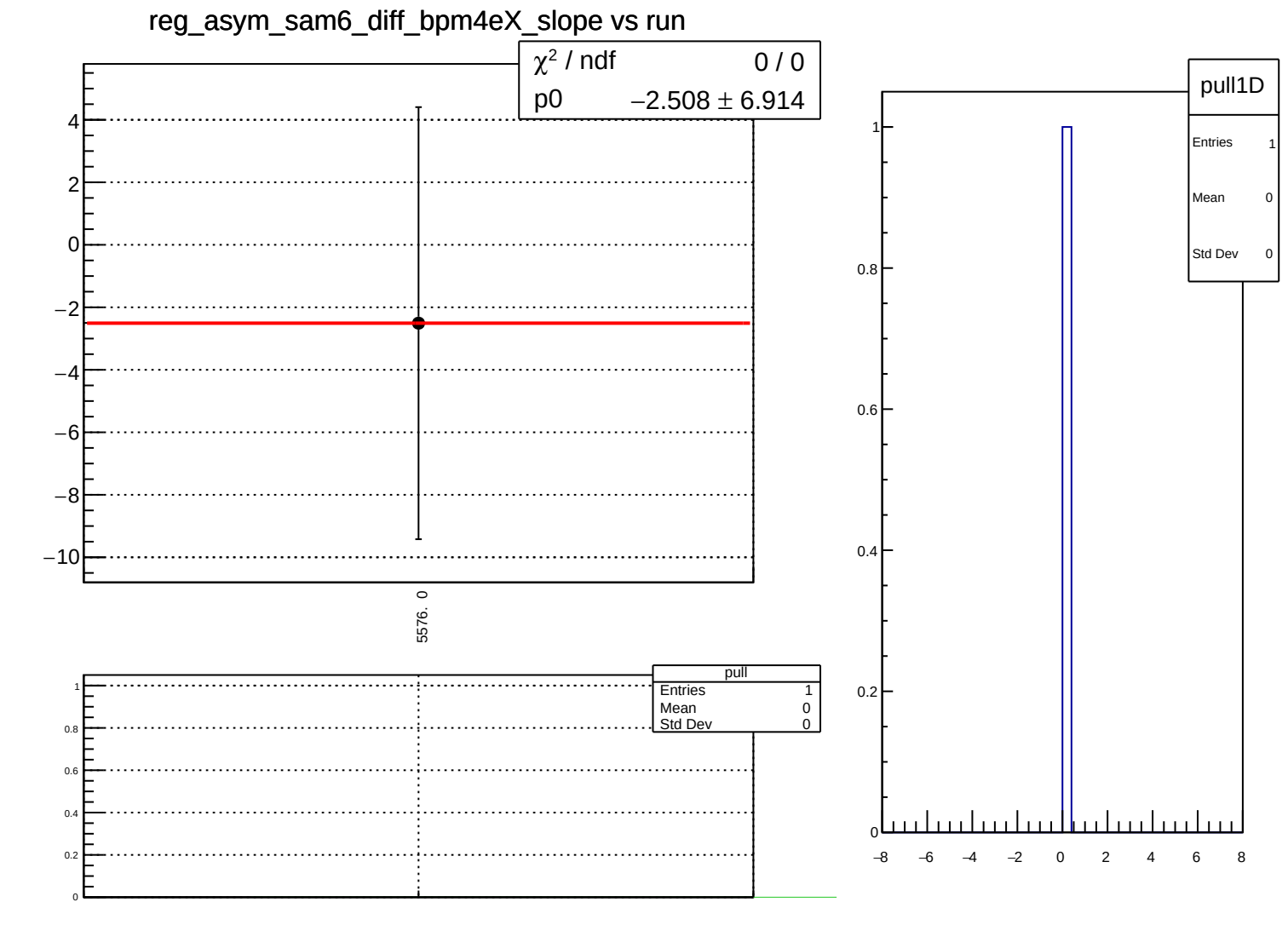

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.1437 ± 0.2499
0.4
0.3
0.2
0.1
0
−0.1
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

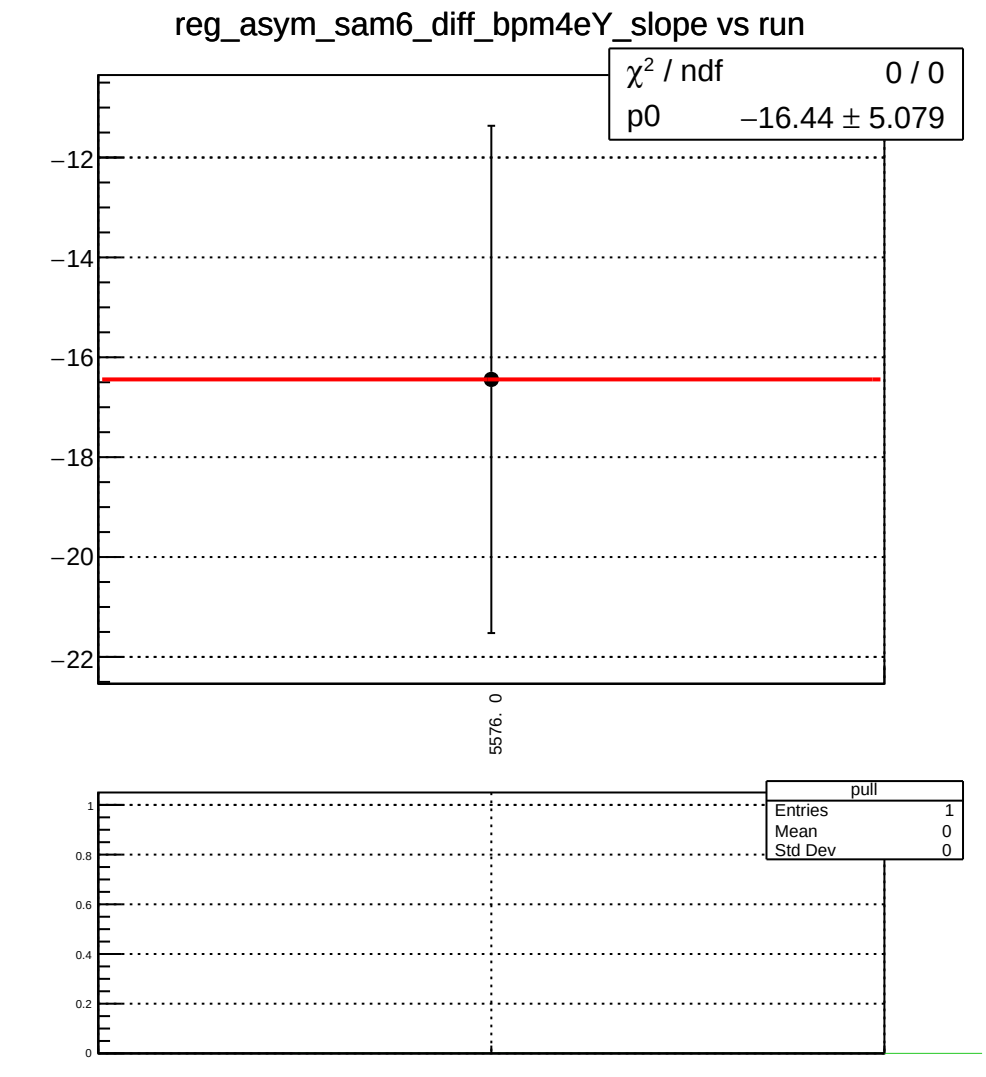

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 21.88 ± 7.267
30
28
26
24
22
20
18
16
14
5576. 0

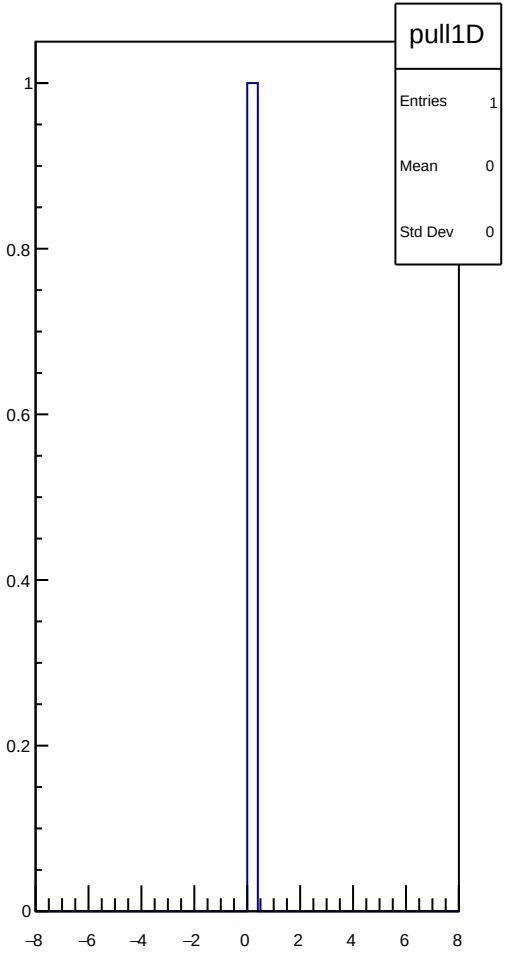

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 53.01 ± 3.812
57
56
55
54
53
52
51
50
49
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −2.508 ± 6.914
4
2
0
−2
−4
−6
−8
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −16.44 ± 5.079
−12
−14
−16
−18
−20
−22
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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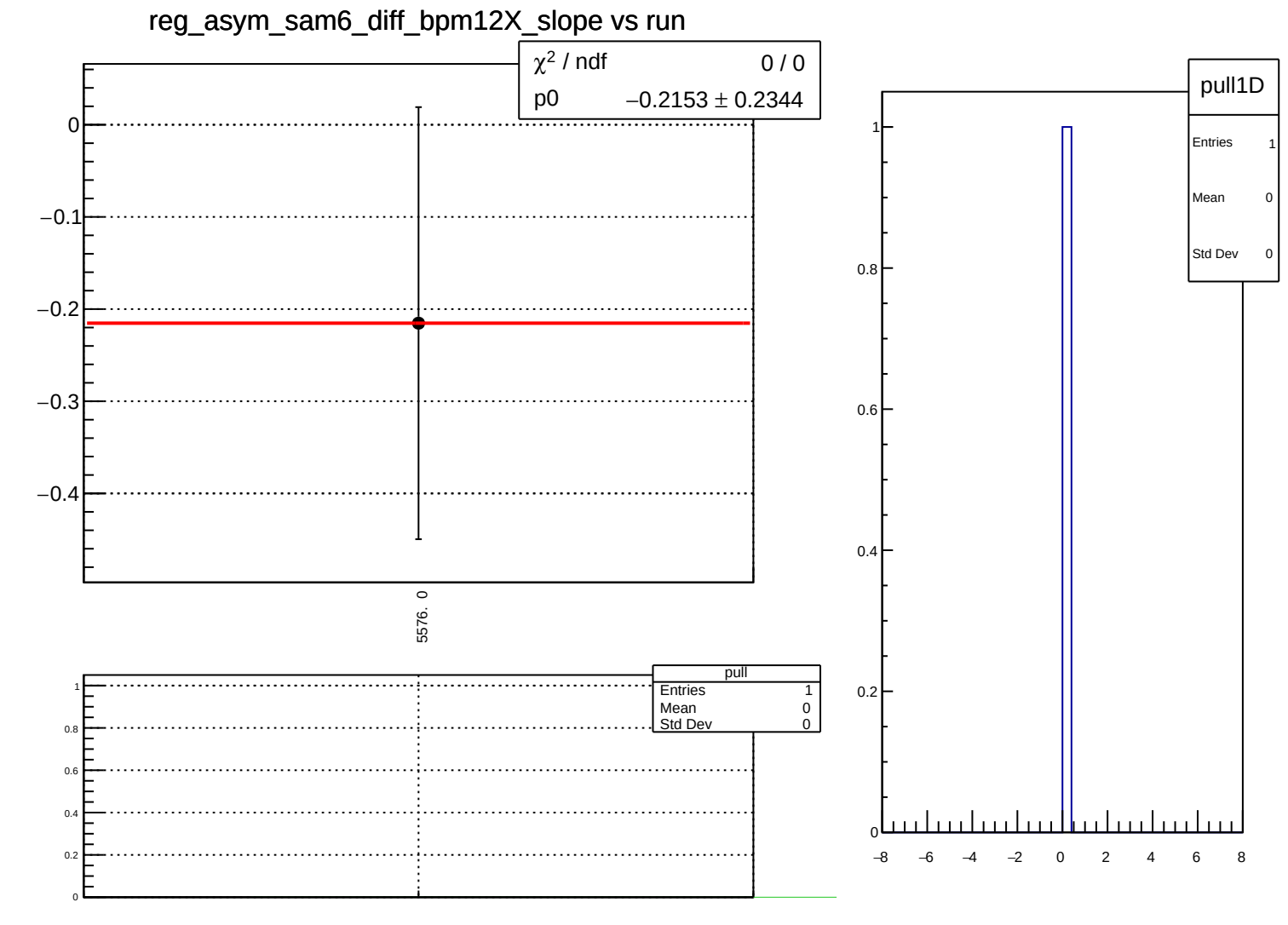
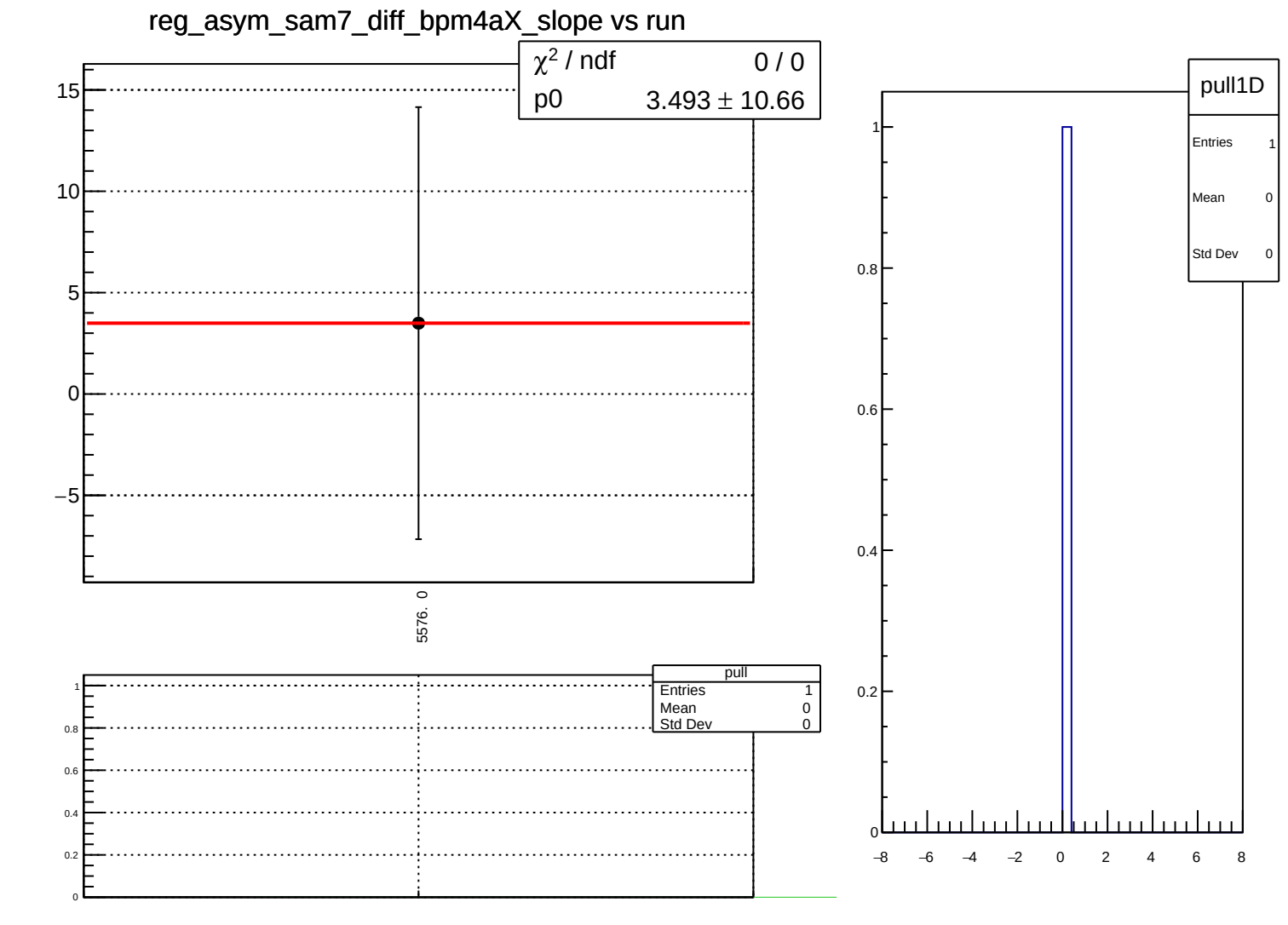
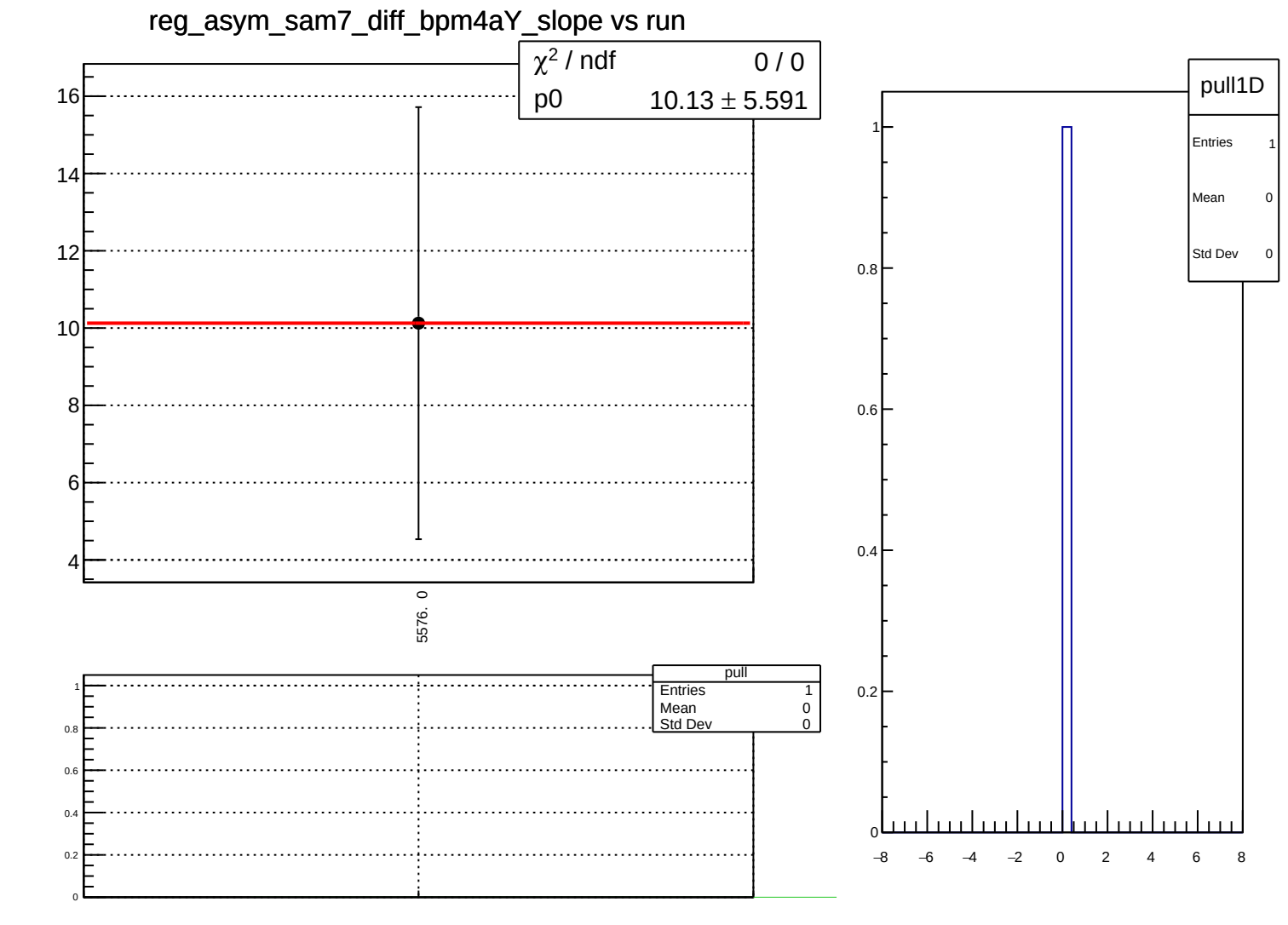
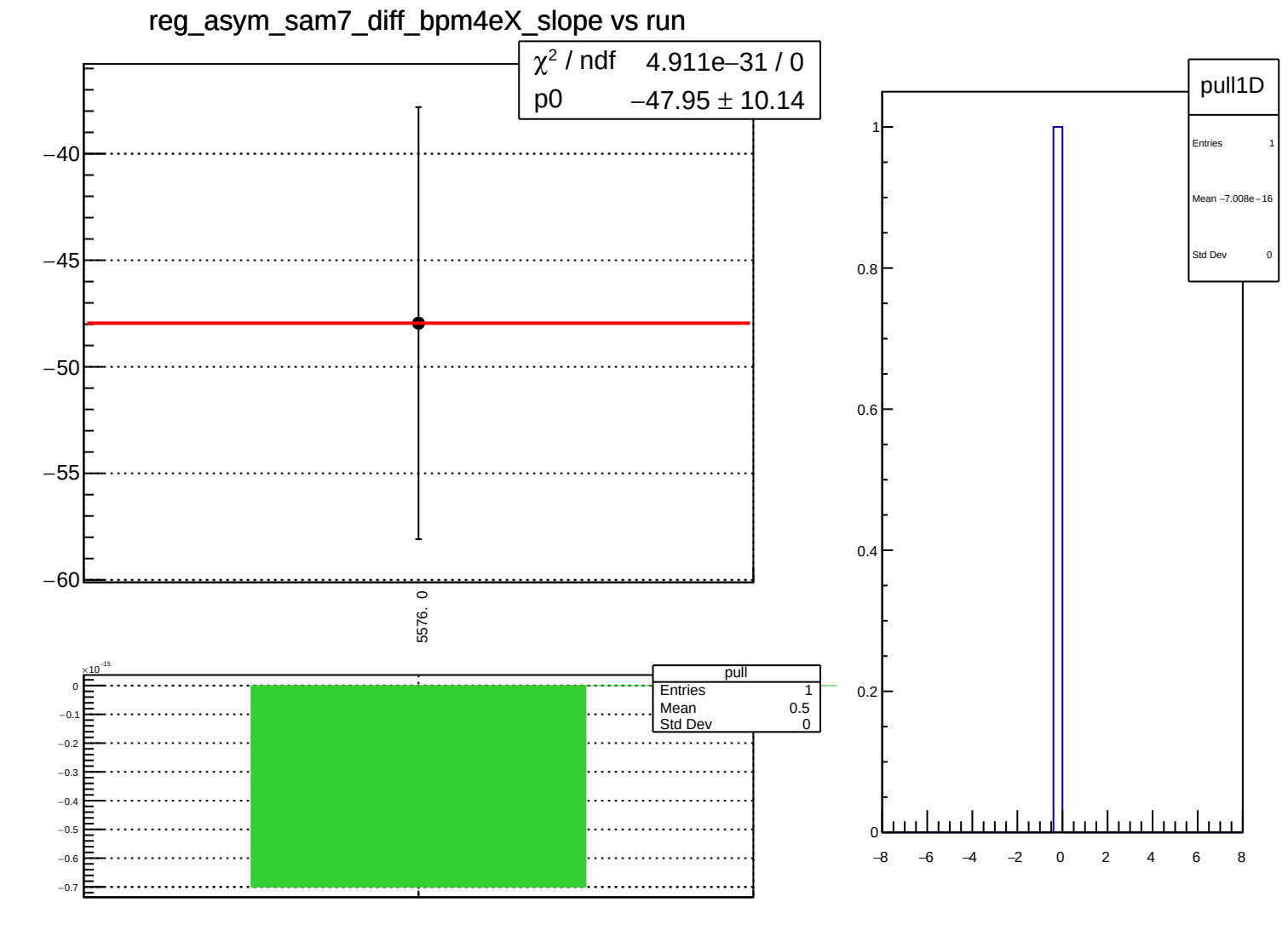
0
2
4
6
8


reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.2153 ± 0.2344
0
−0.1
−0.2
−0.3
−0.4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 3.493 ± 10.66
15
10
5
0
−5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 10.13 ± 5.591
16
14
12
10
8
6
4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 4.911e−31 / 0
p0 −47.95 ± 10.14
−40
−45
−50
−55
−60
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −7.008e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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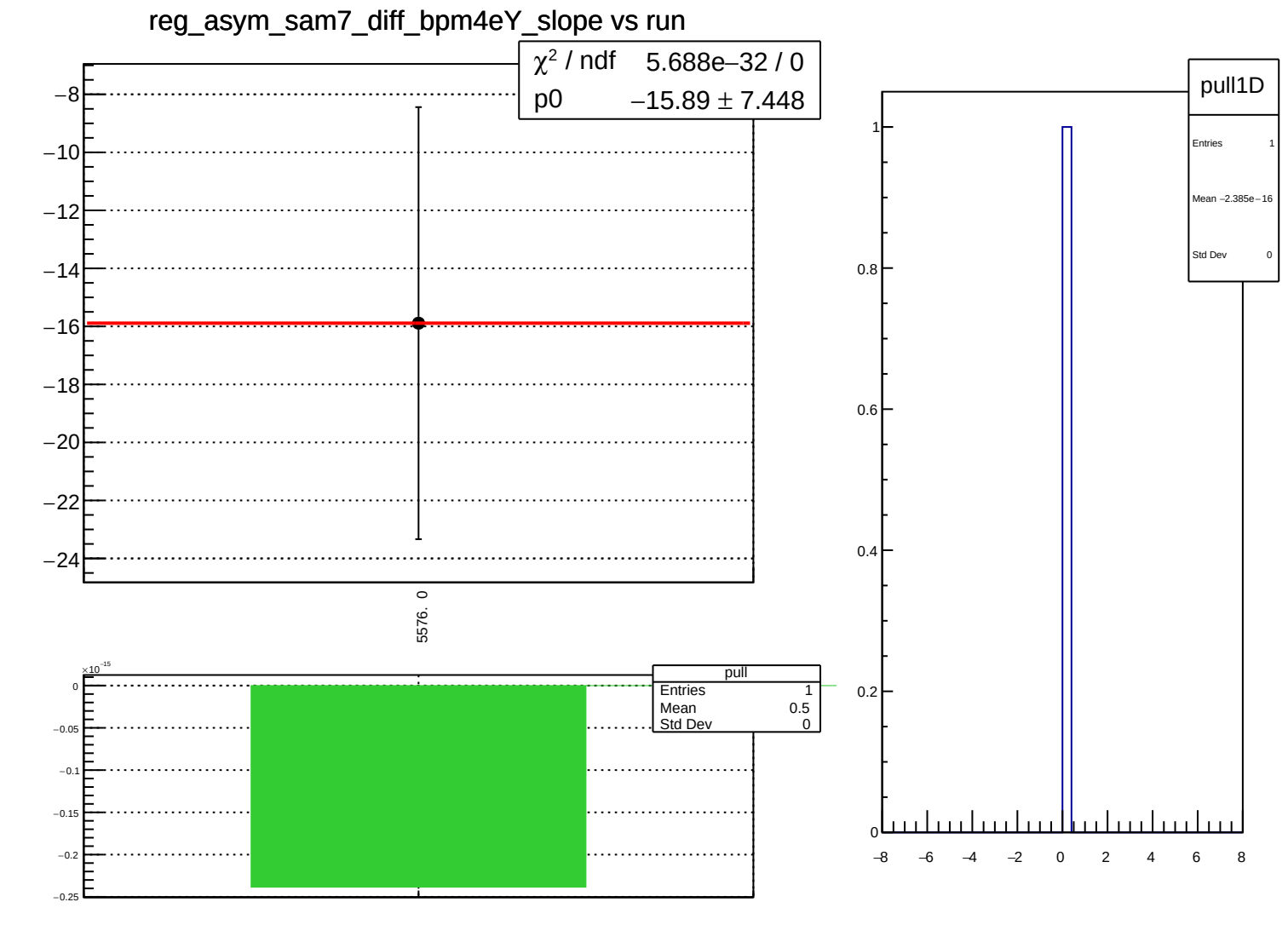
0
2
4
6
8


reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 5.688e−32 / 0
p0 −15.89 ± 7.448
−8
−10
−12
−14
−16
−18
−20
−22
−24
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.385e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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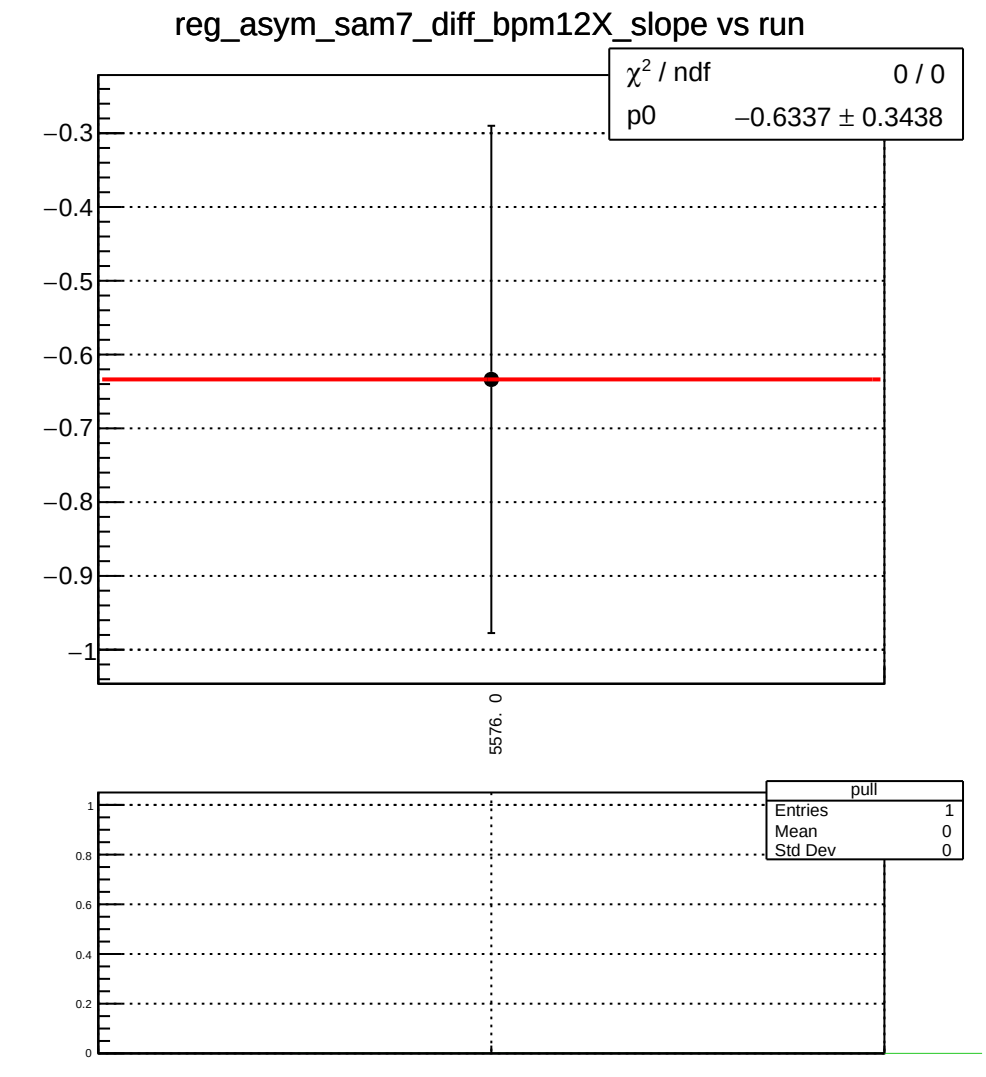
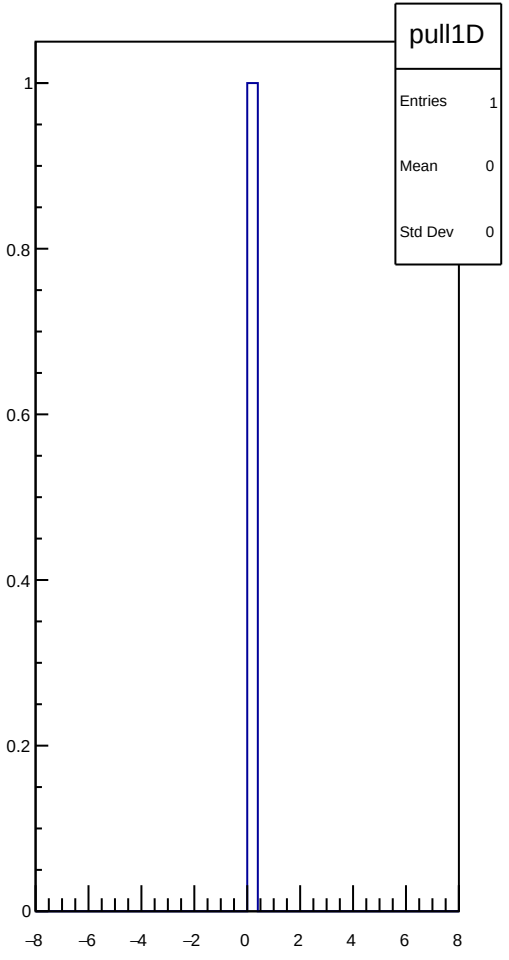
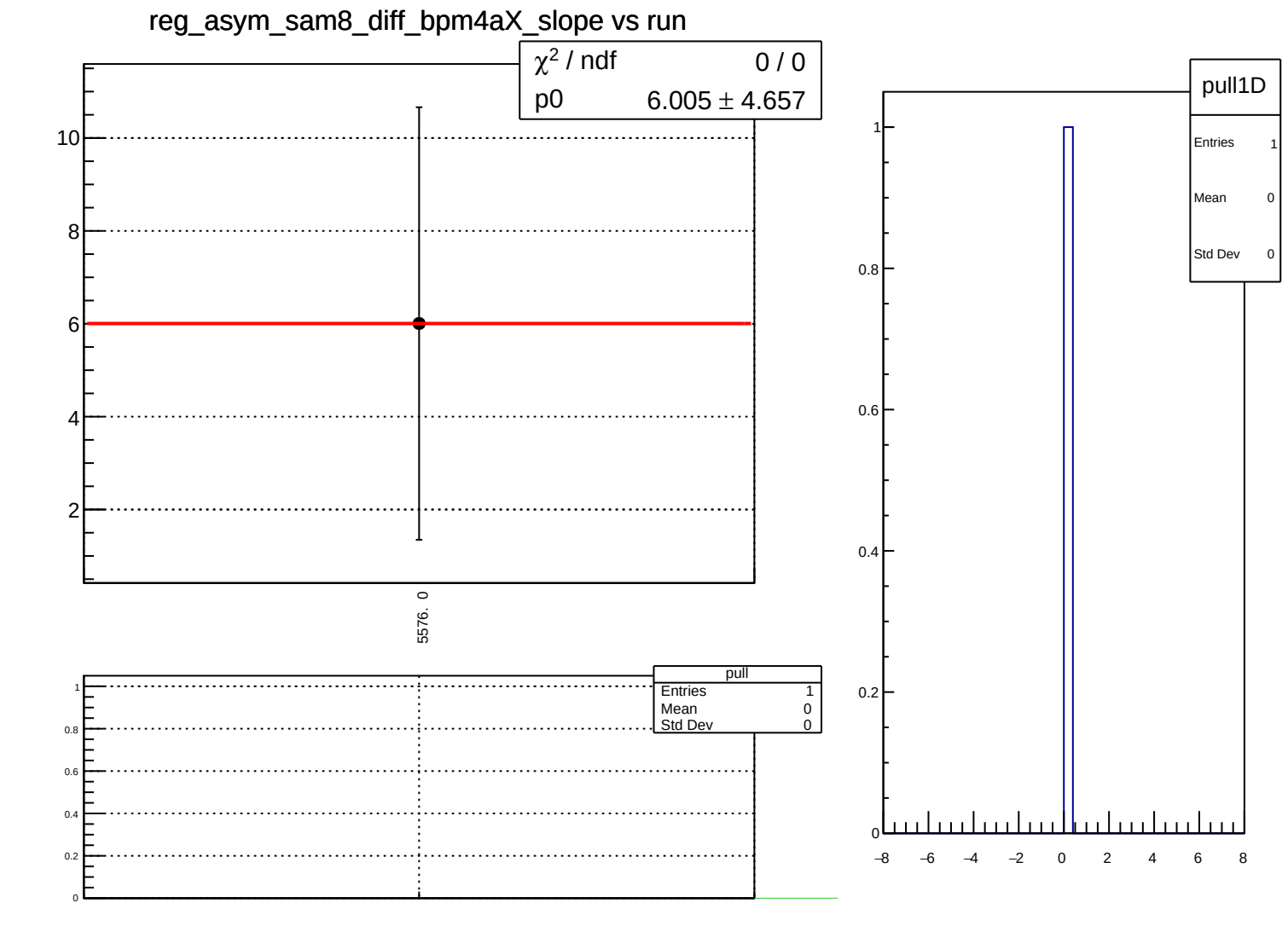
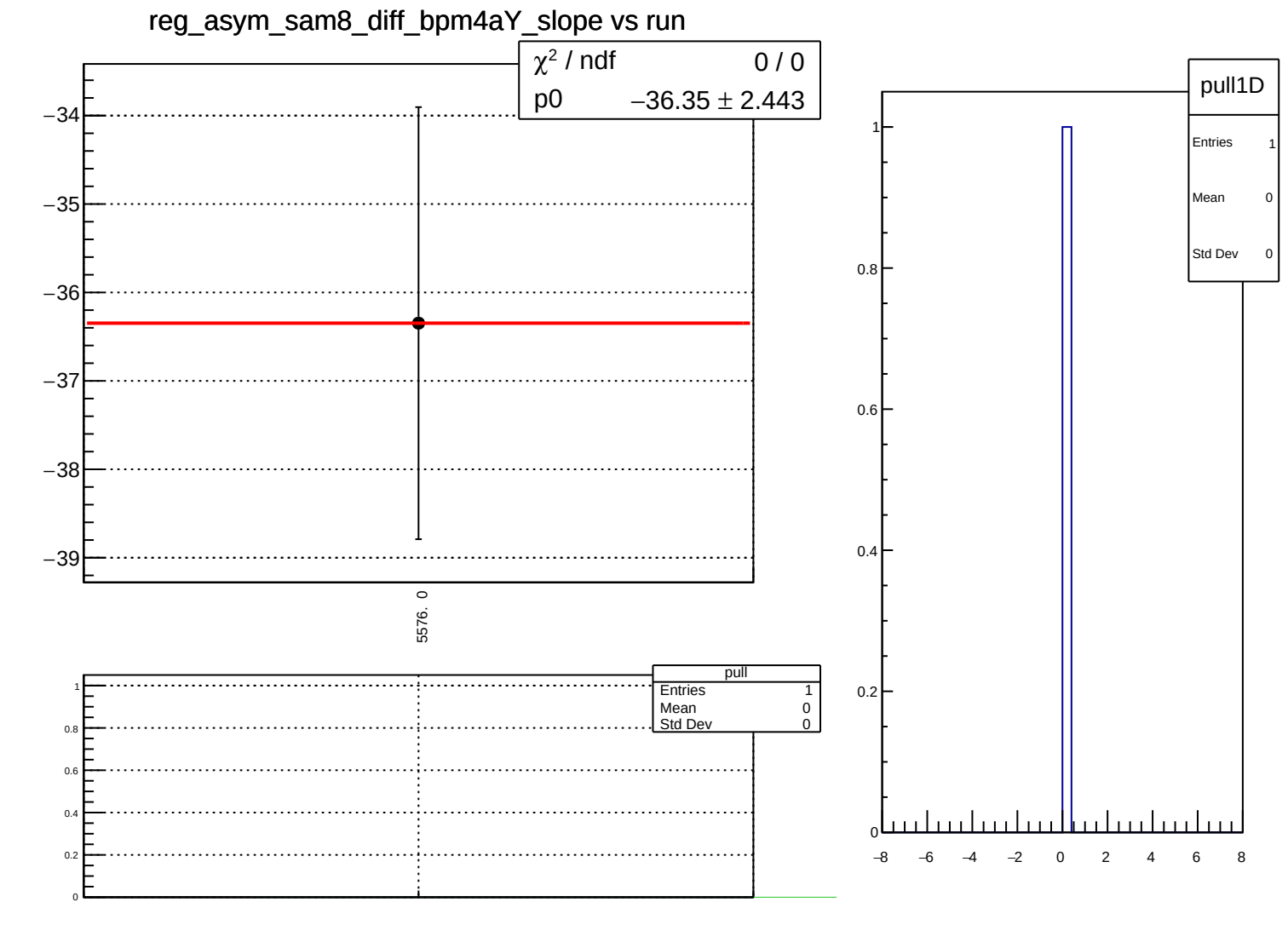
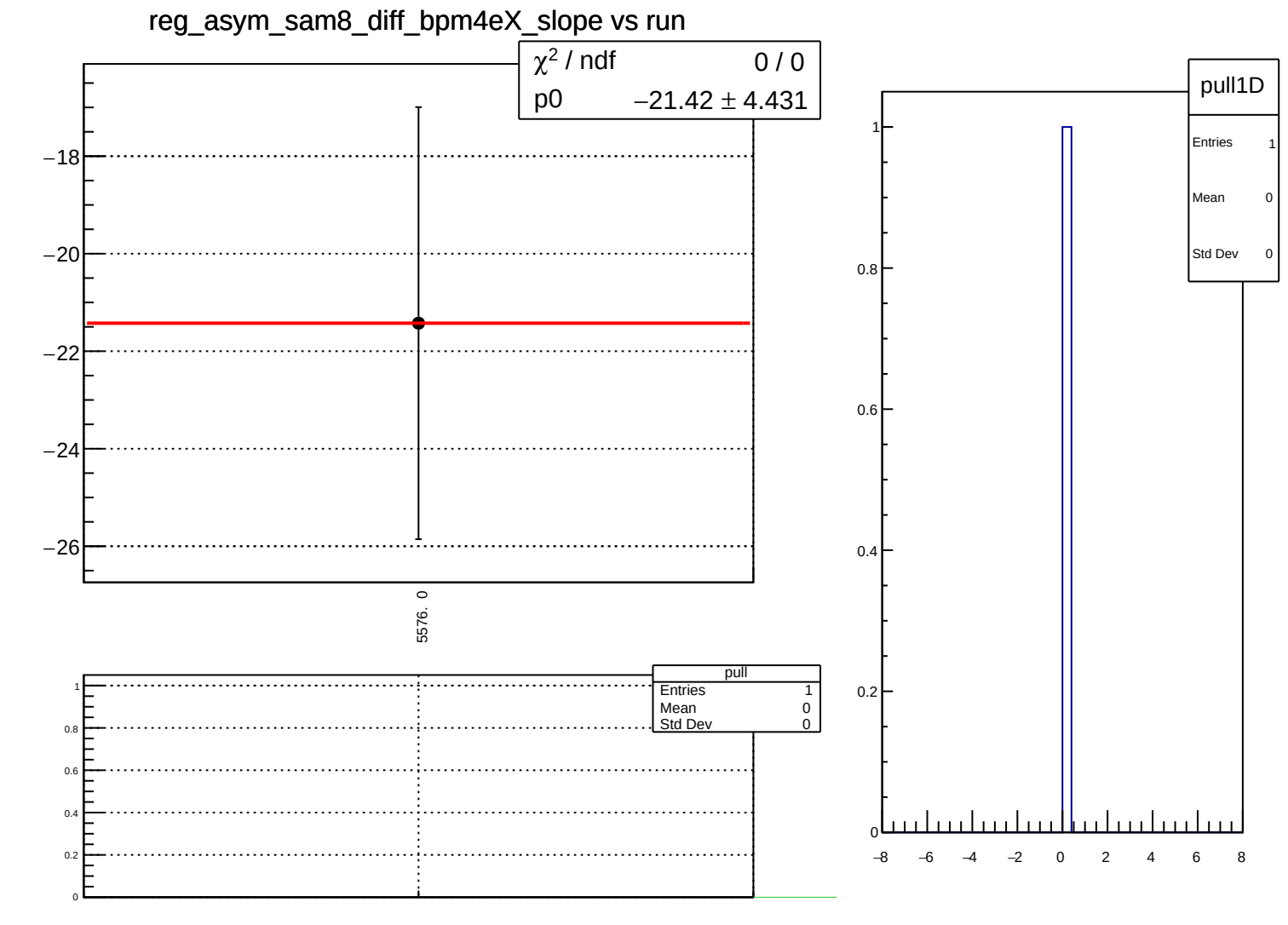
0
2
4
6
8

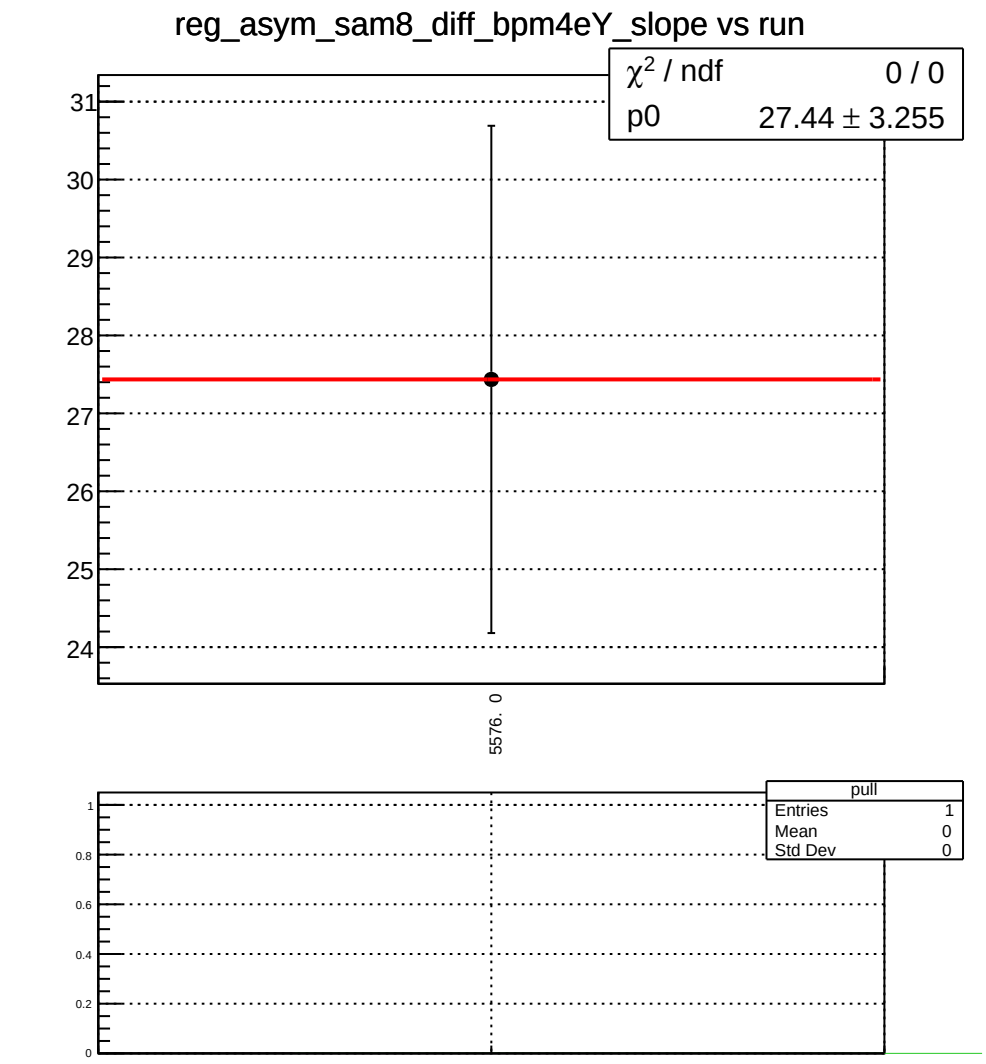

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.6337 ± 0.3438
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

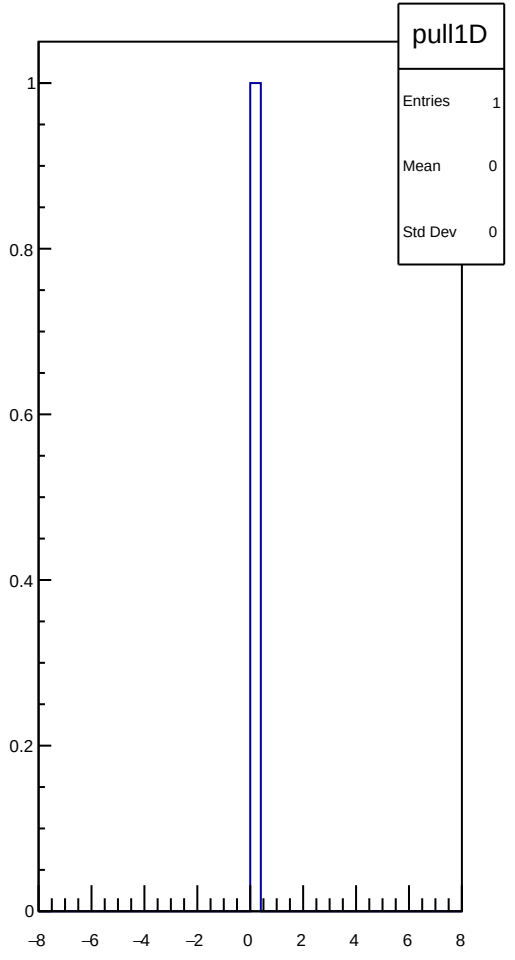

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

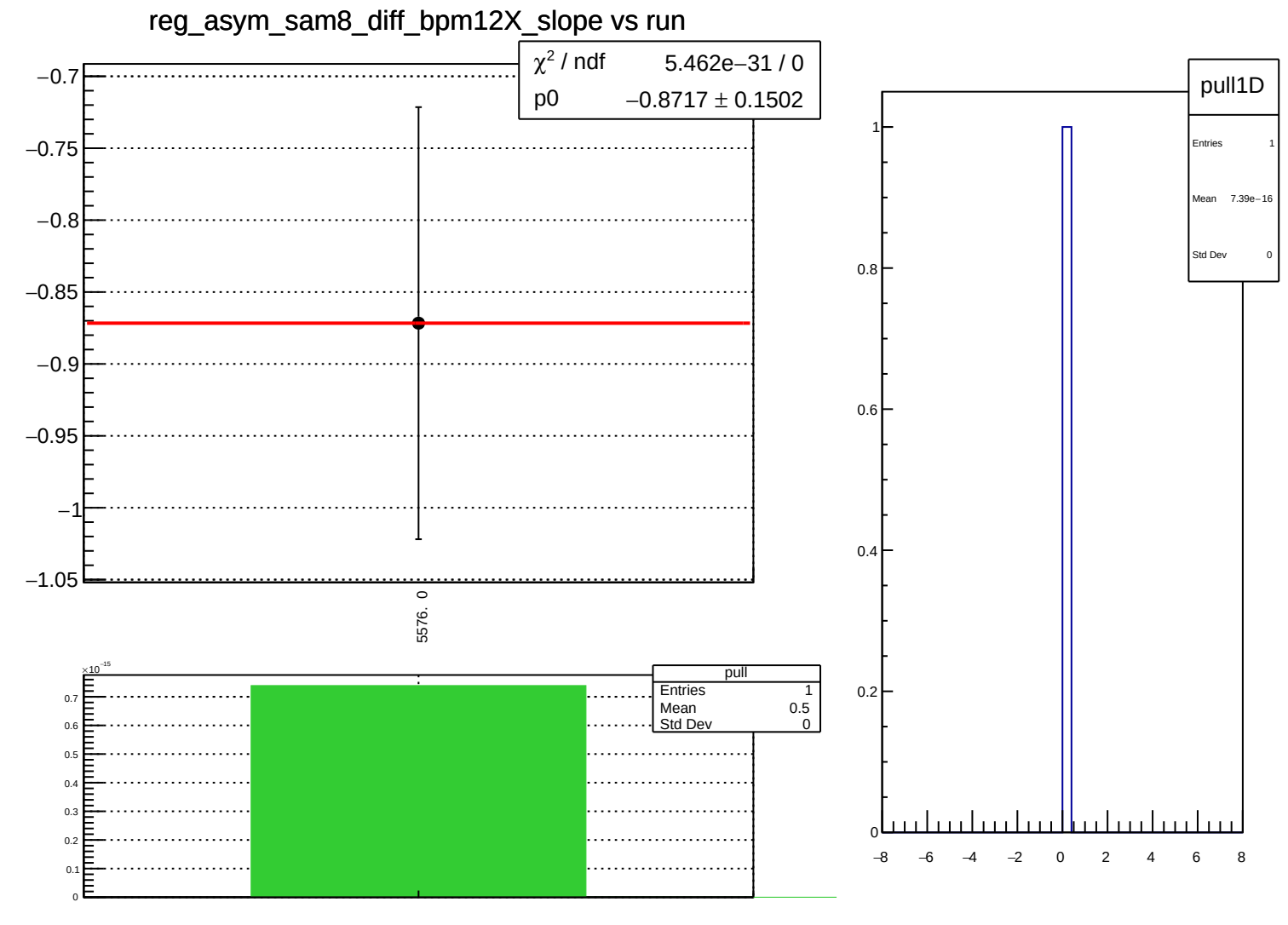

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 6.005 ± 4.657
10
8
6
4
2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

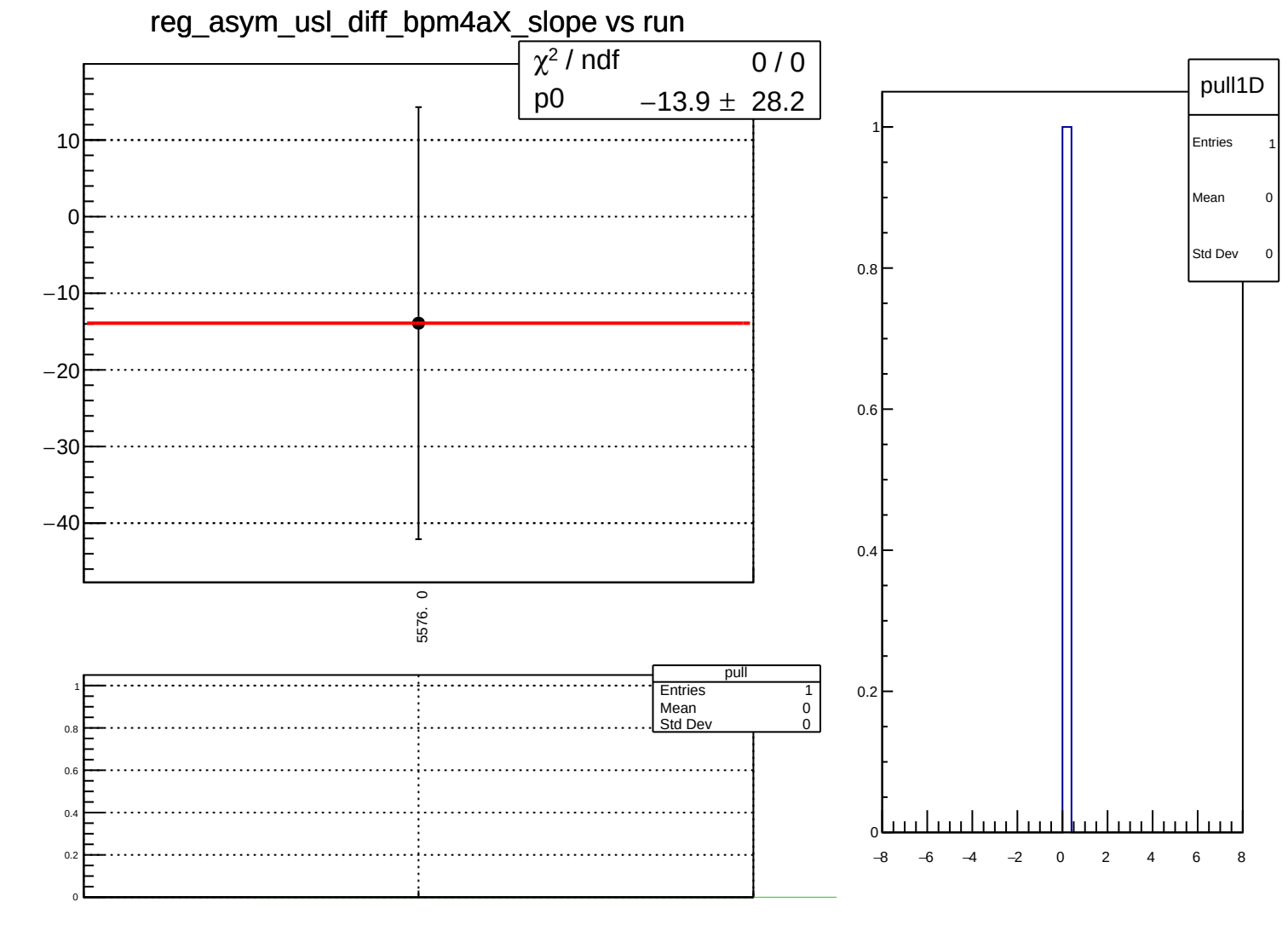

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −36.35 ± 2.443
−34
−35
−36
−37
−38
−39
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

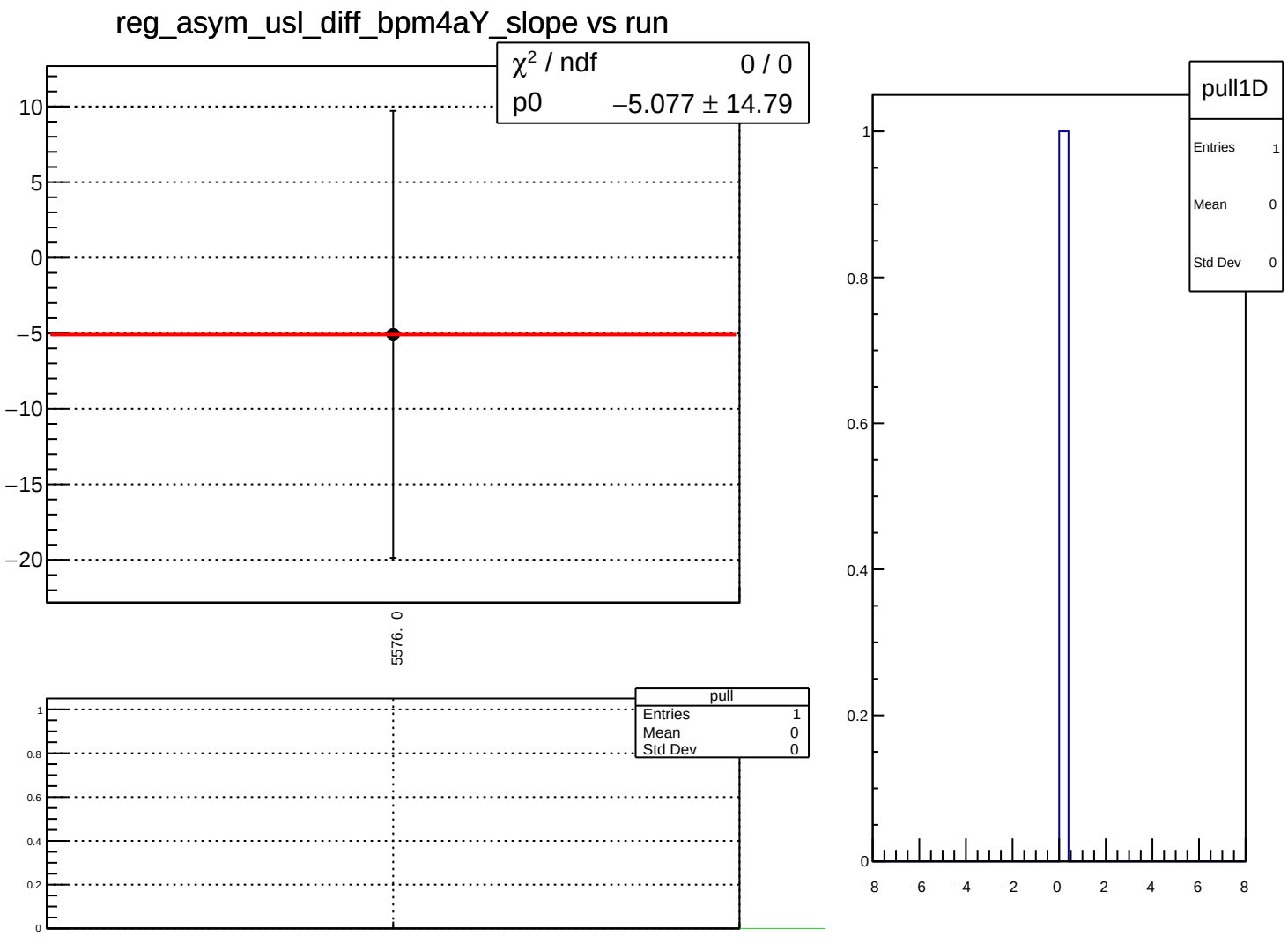

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −21.42 ± 4.431
−18
−20
−22
−24
−26
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

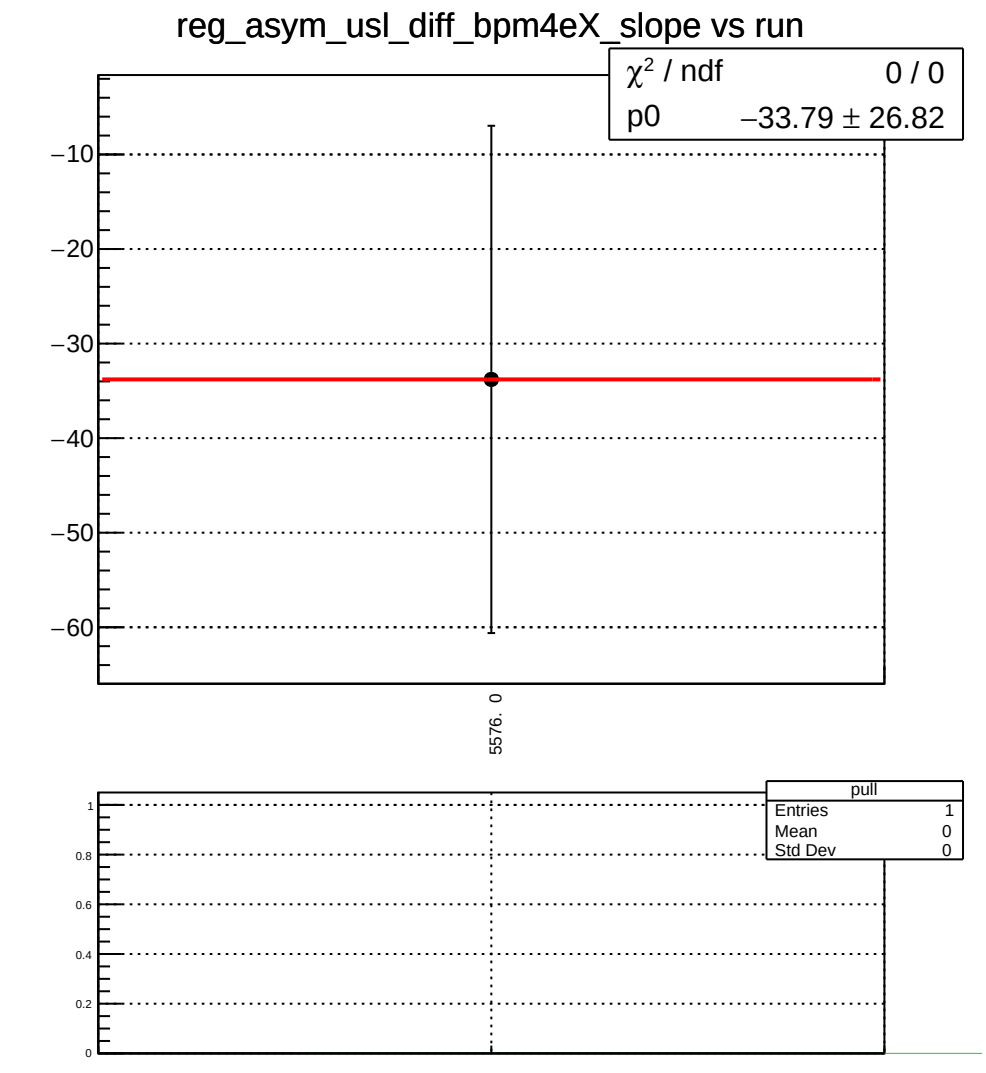

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 27.44 ± 3.255
31
30
29
28
27
26
25
24
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

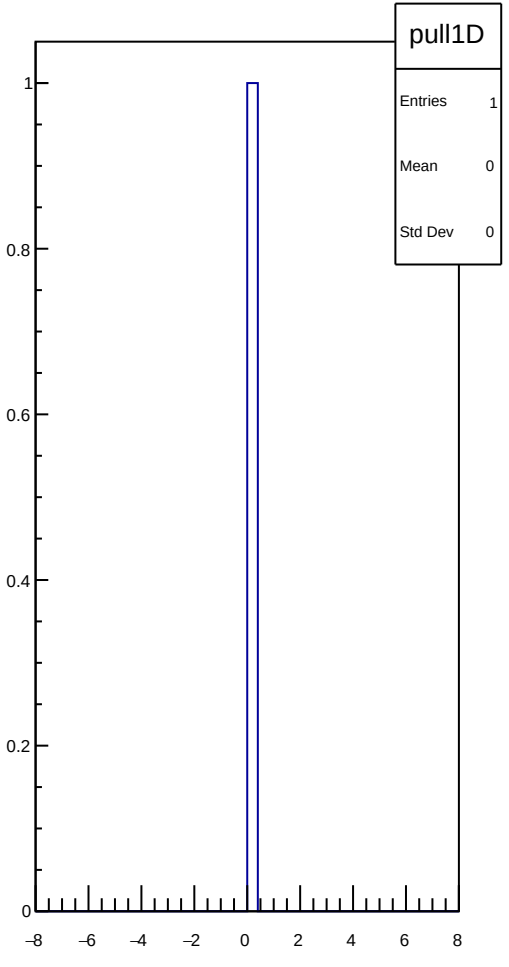

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

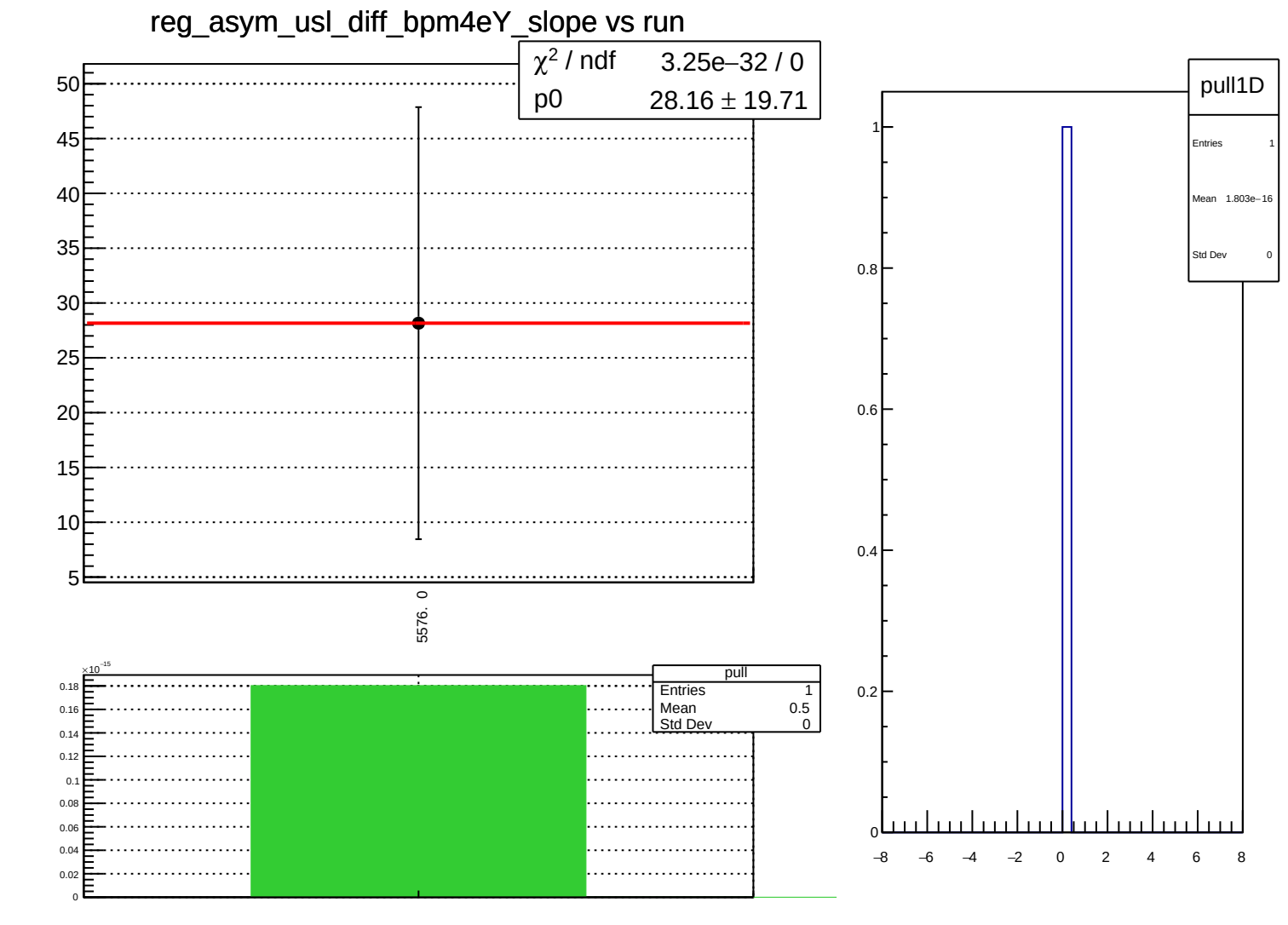

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 5.462e−31 / 0
p0 −0.8717 ± 0.1502
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
5576. 0
×10⁻¹⁵
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 7.39e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

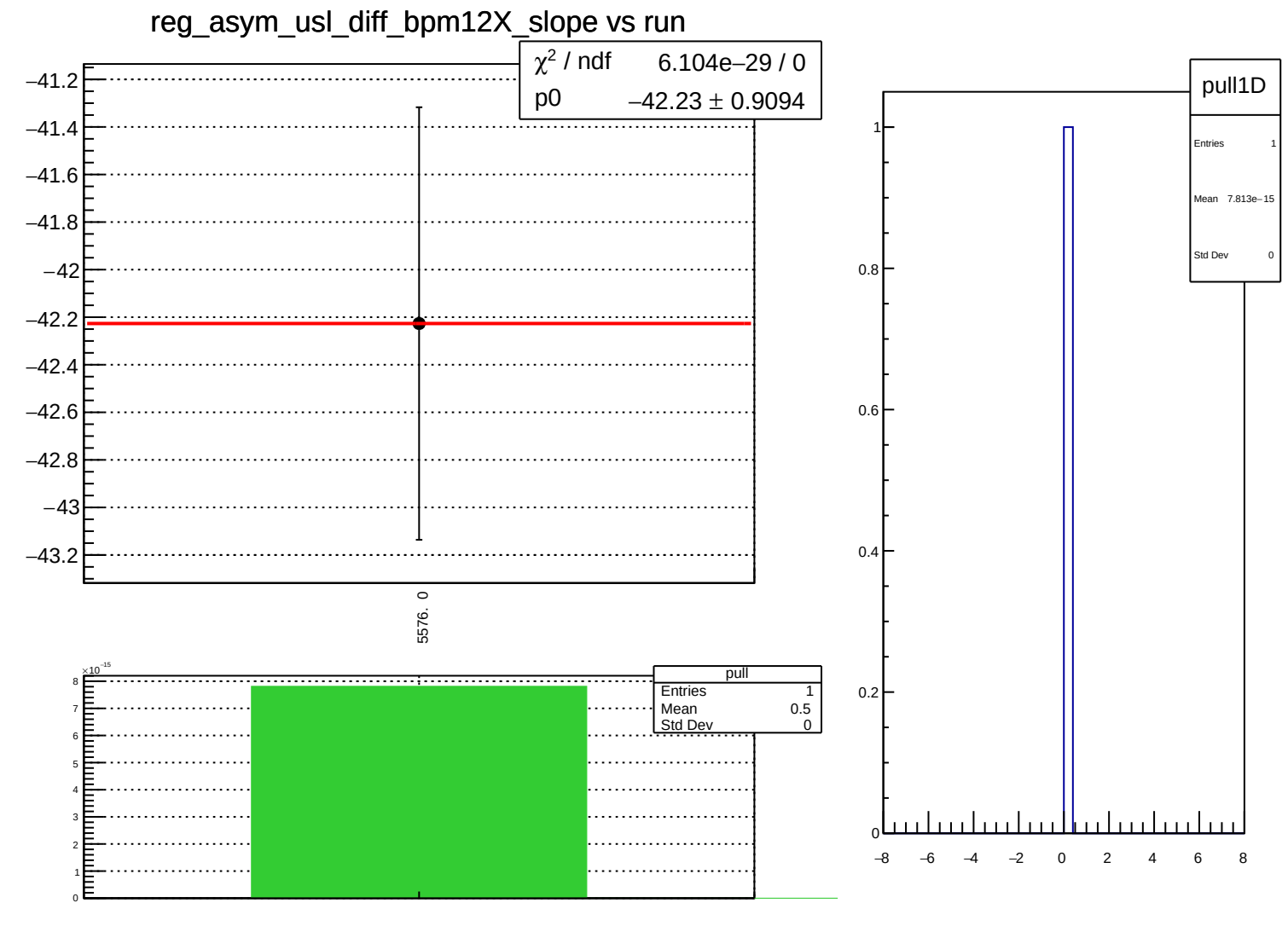

reg_asym_usl_diff_bpm4aX_slope vs run
χ2 / ndf 0 / 0
p0 −13.9 ± 28.2
10
0
−10
−20
−30
−40
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

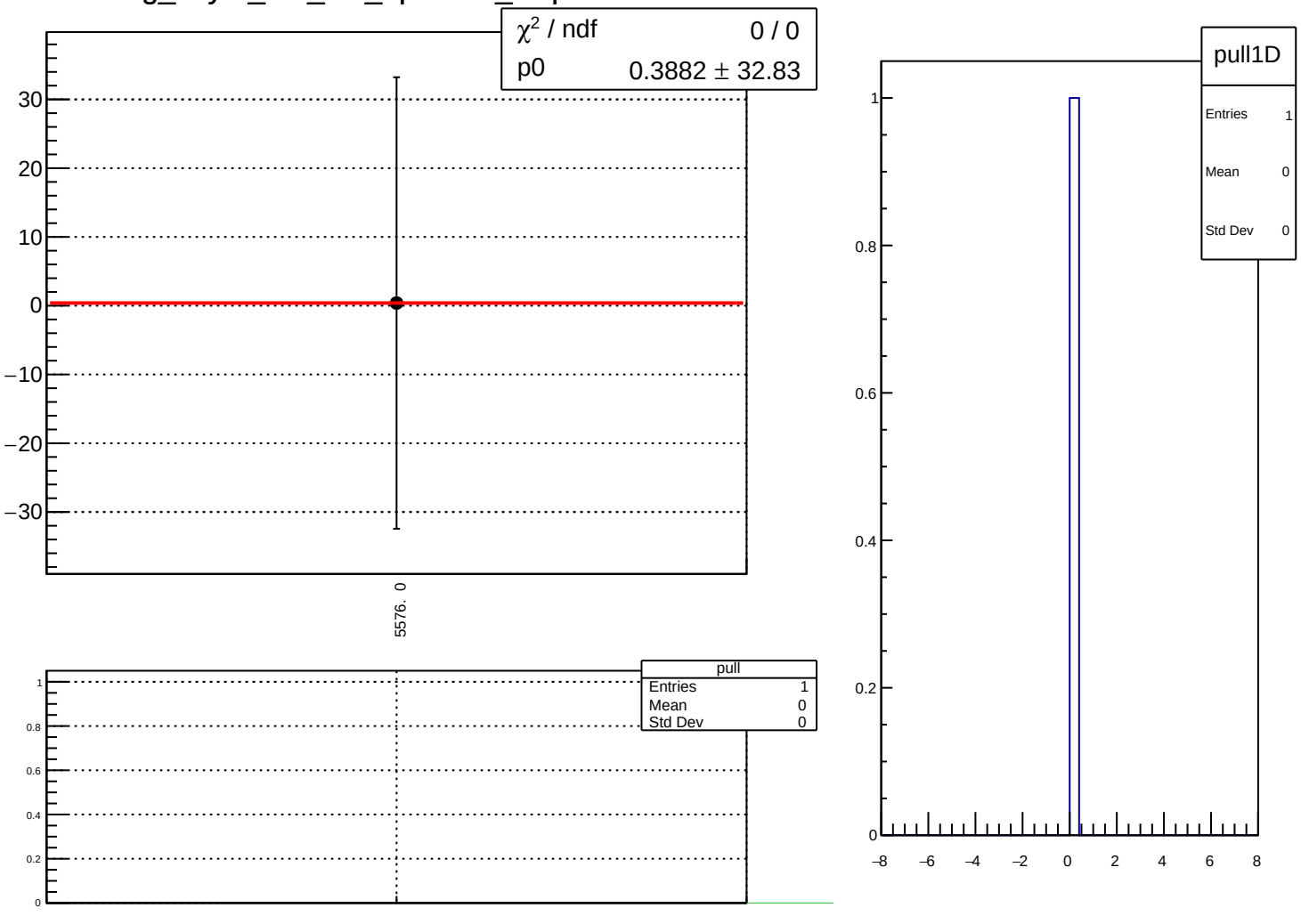

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −5.077 ± 14.79
10
5
0
−5
−10
−15
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

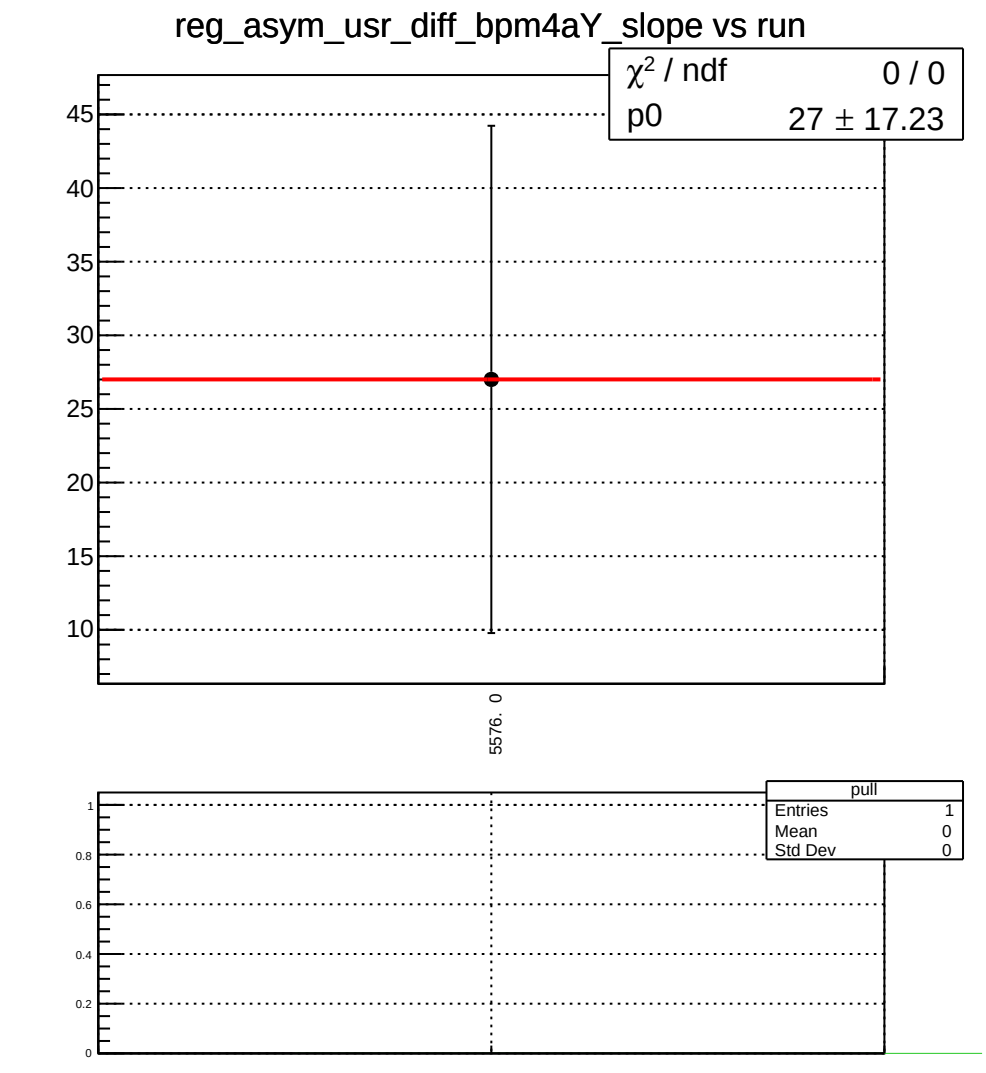

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −33.79 ± 26.82
−10
−20
−30
−40
−50
−60
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

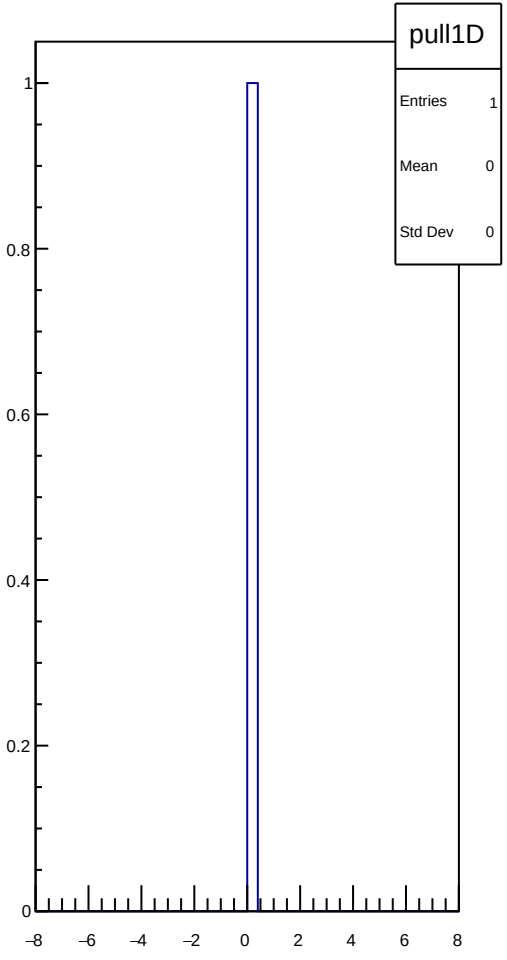

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

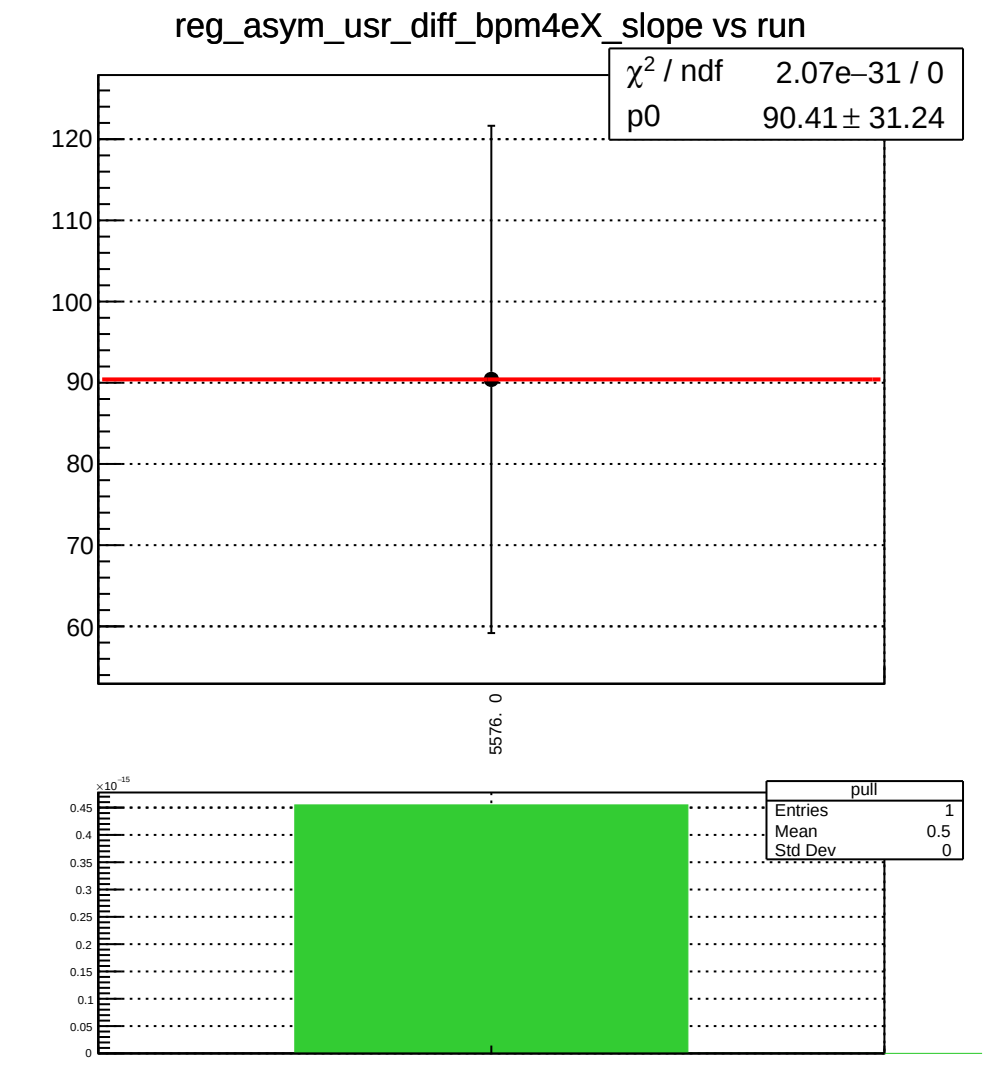

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.25e−32 / 0
p0 28.16 ± 19.71
50
45
40
35
30
25
20
15
10
5
5576. 0
×10⁻¹⁵
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 1.803e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

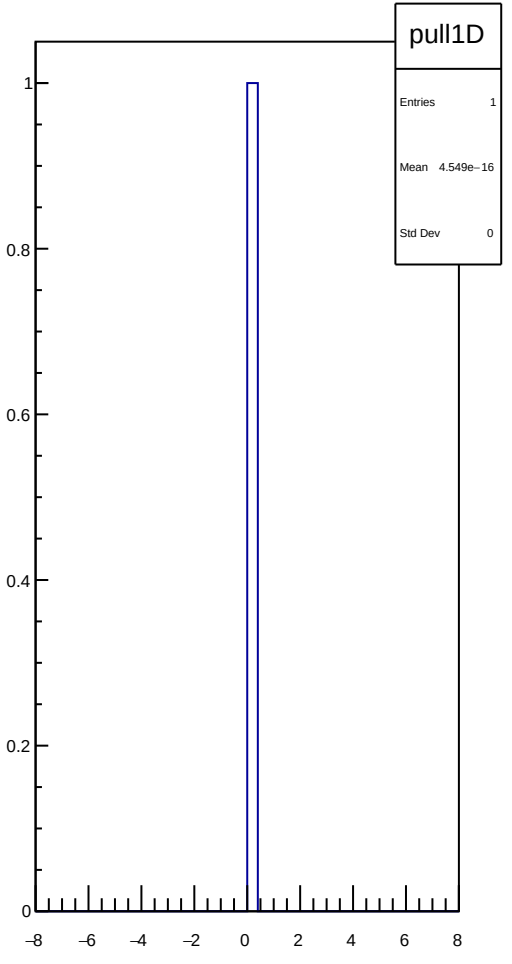

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 6.104e−29 / 0
p0 −42.23 ± 0.9094
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
−42.6
−42.8
−43
−43.2
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull1D
Entries 1
Mean 7.813e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

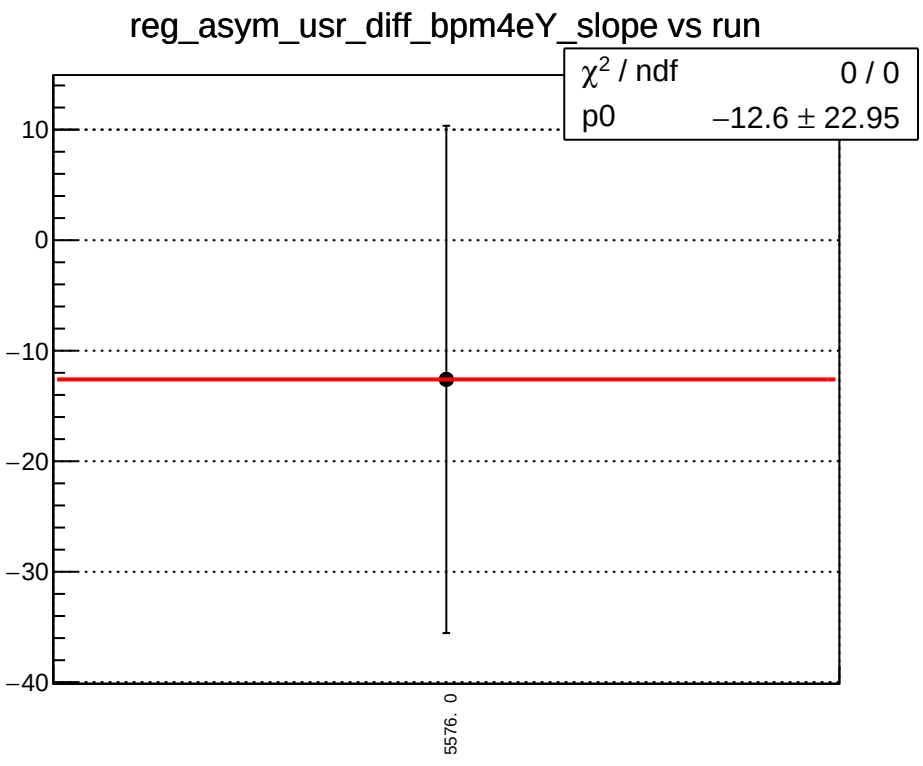

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 0.3882 ± 32.83
30
20
10
0
−10
−20
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

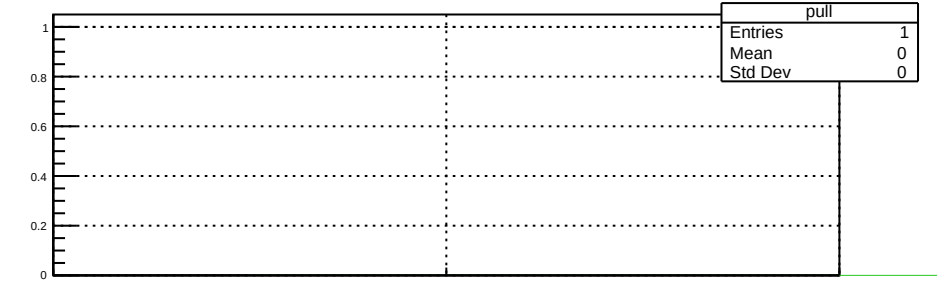

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 27 ± 17.23
45
40
35
30
25
20
15
10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

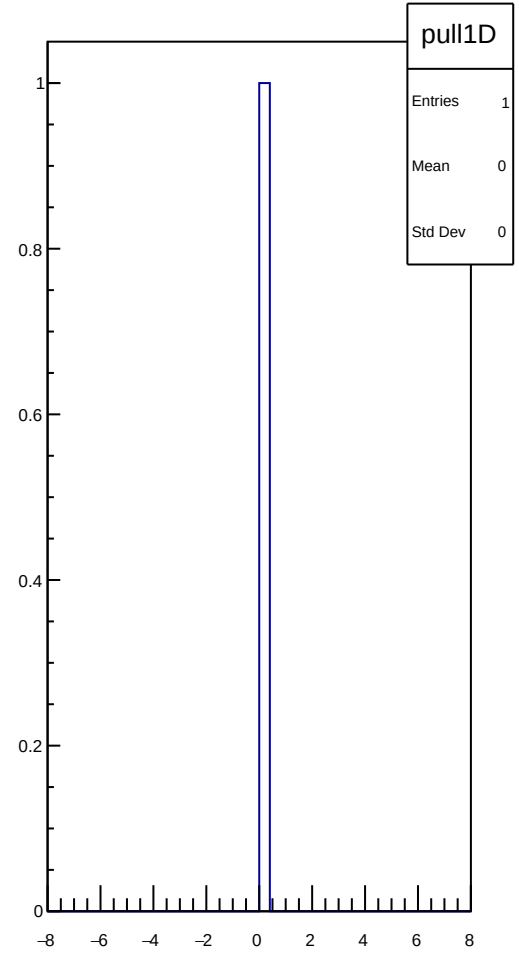

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

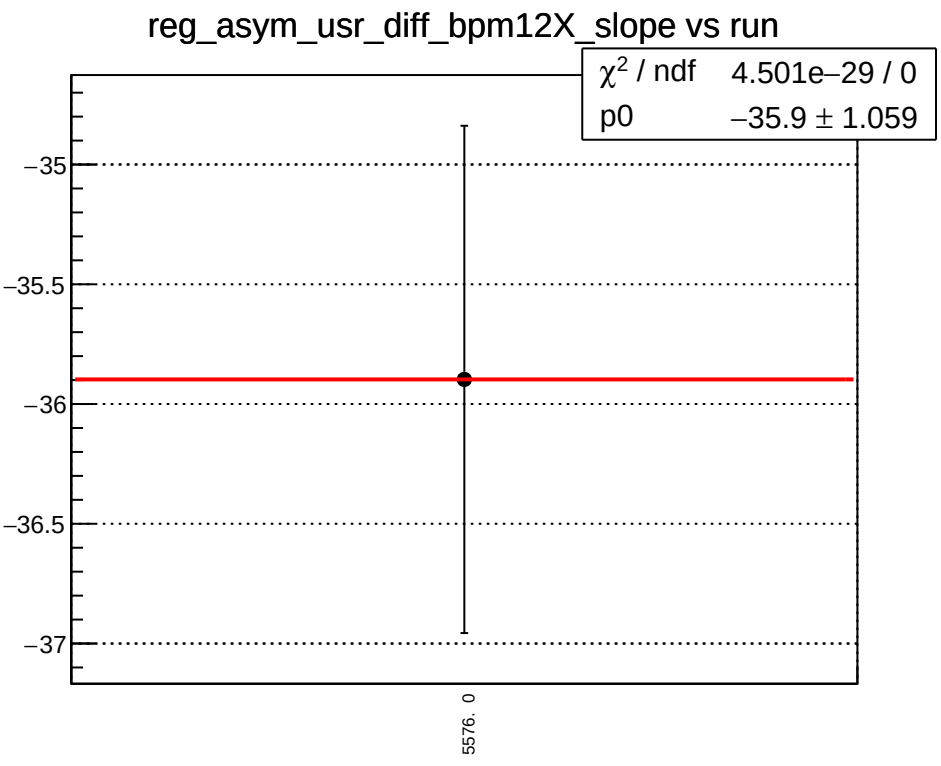

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 2.07e−31 / 0
p0 90.41 ± 31.24
120
110
100
90
80
70
60
5576. 0
×10⁻¹⁵
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

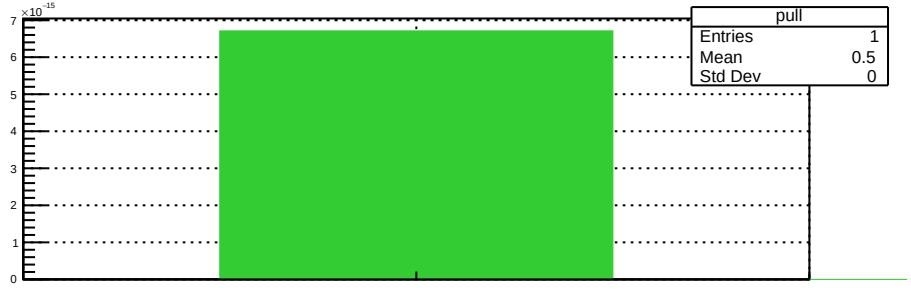

pull1D
Entries 1
Mean 4.549e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

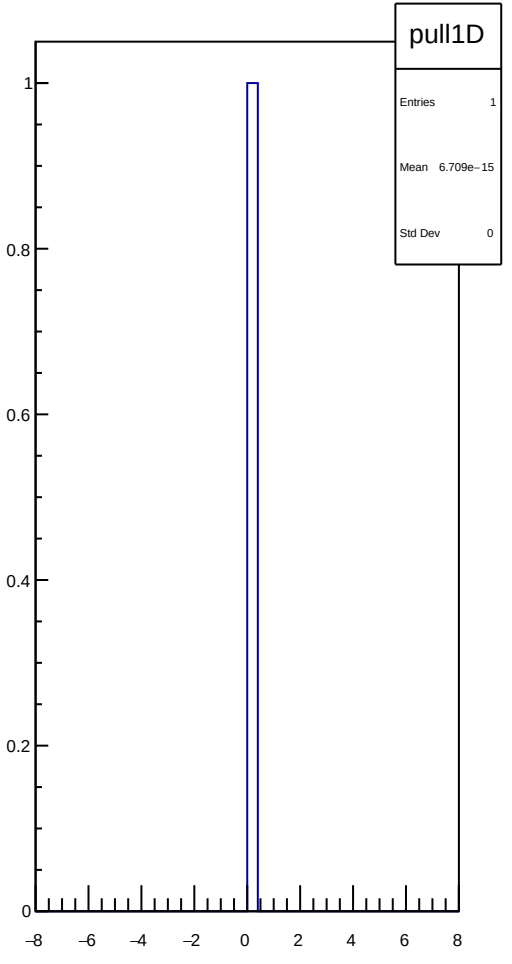

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −12.6 ± 22.95
10
0
−10
−20
−30
−40
5576. 0

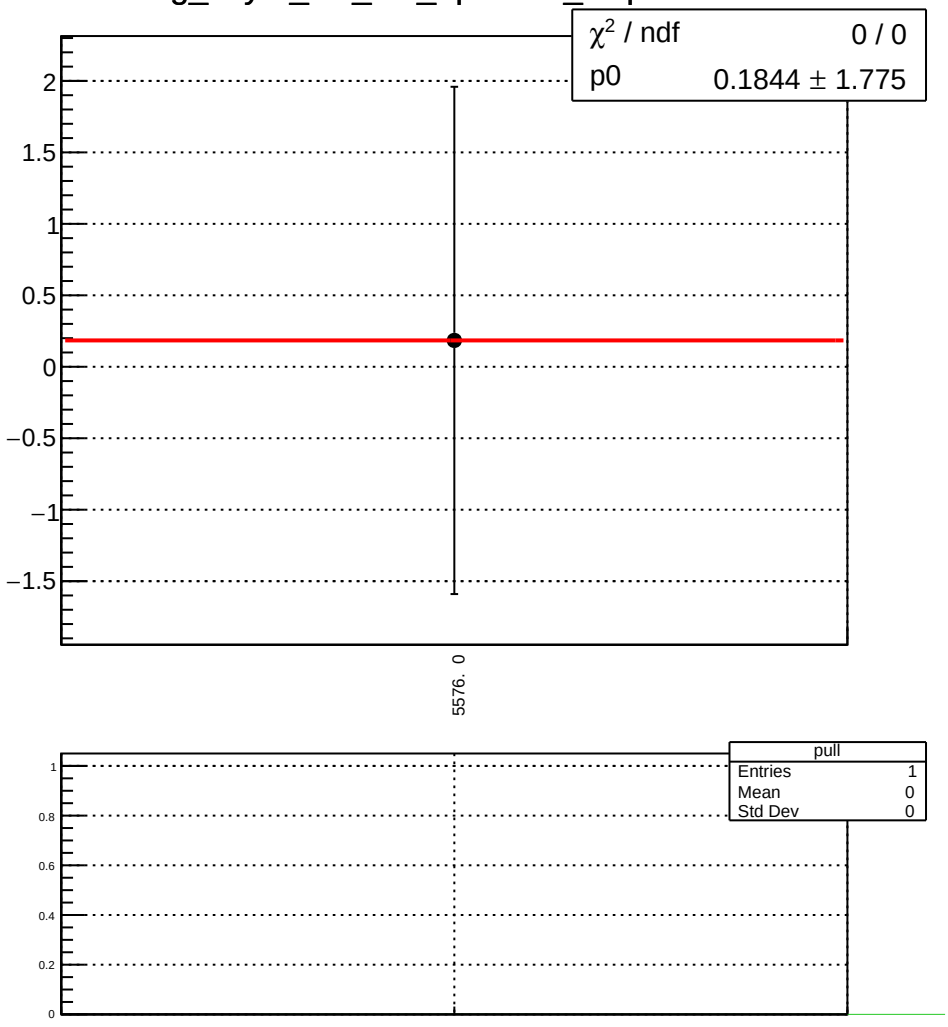

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

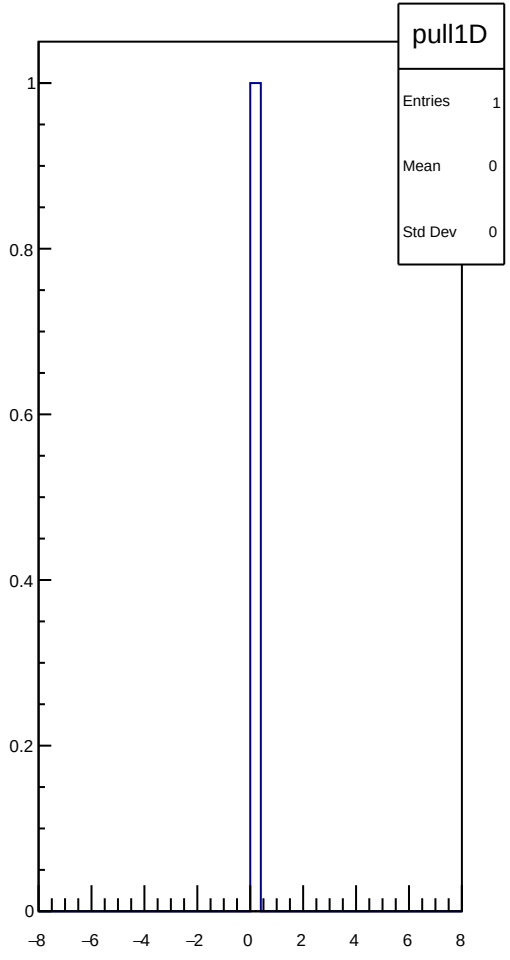

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

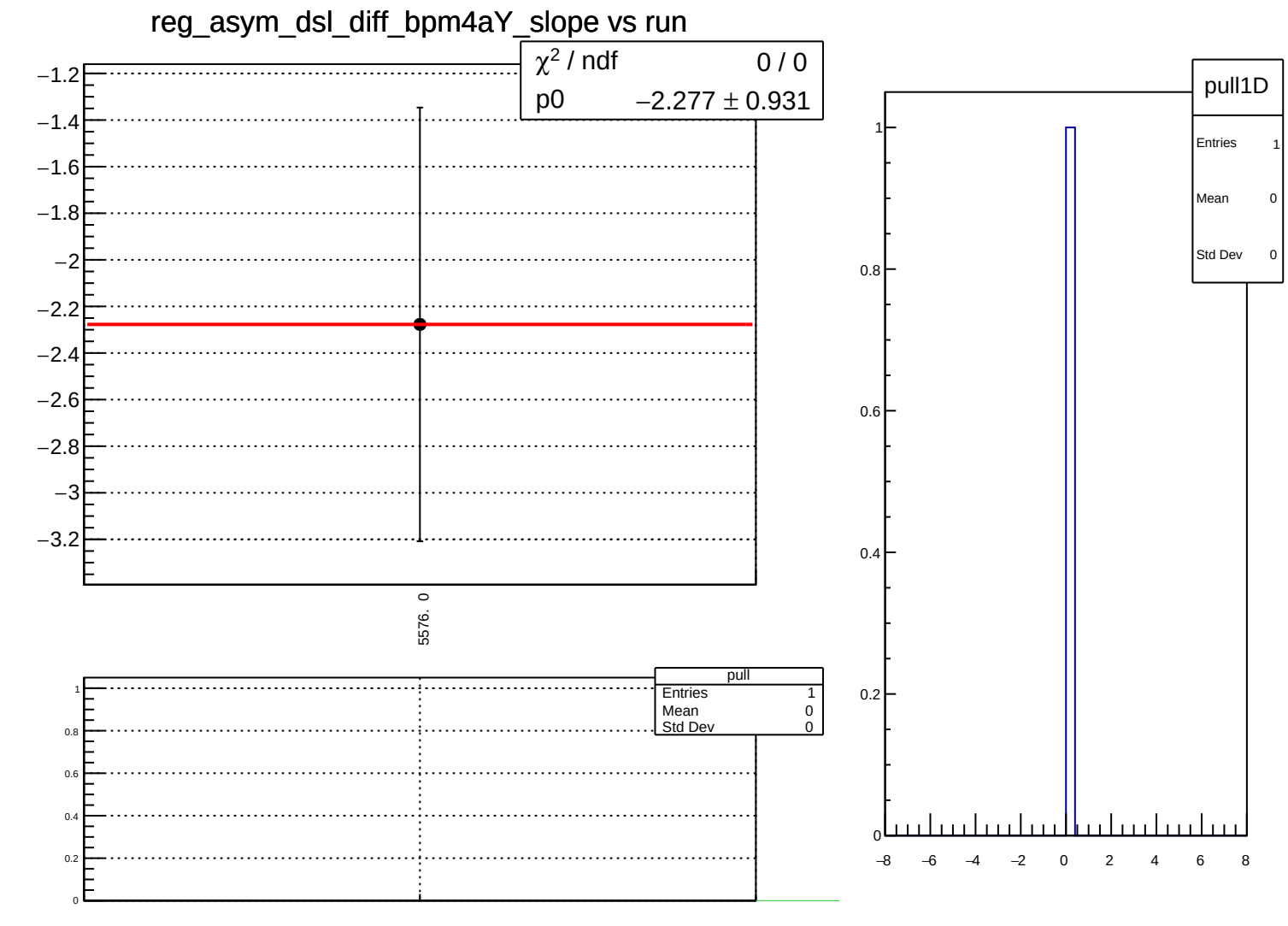

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 4.501e−29 / 0
p0 −35.9 ± 1.059
−35
−35.5
−36
−36.5
−37
5576. 0

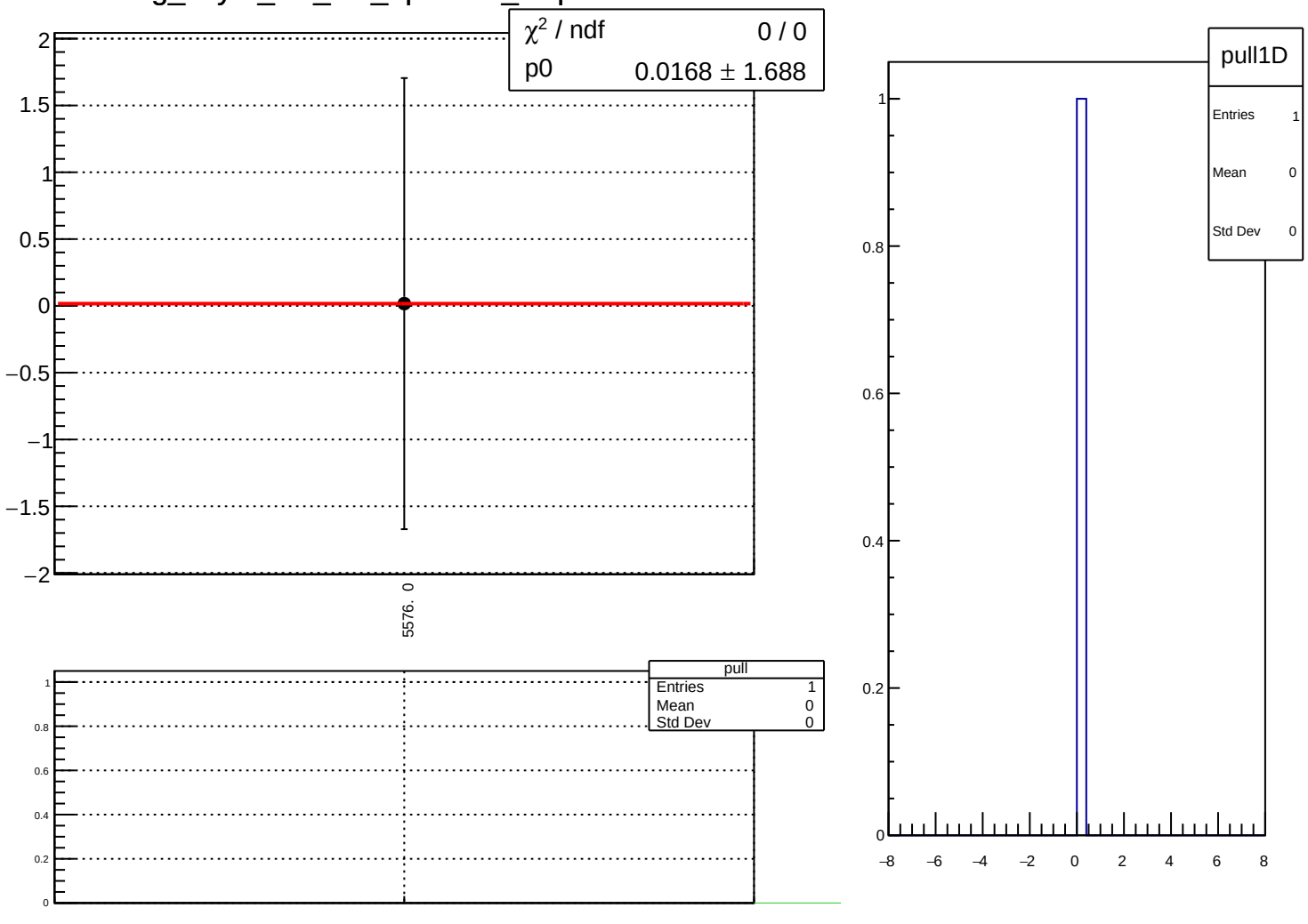

×10⁻¹⁵
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0

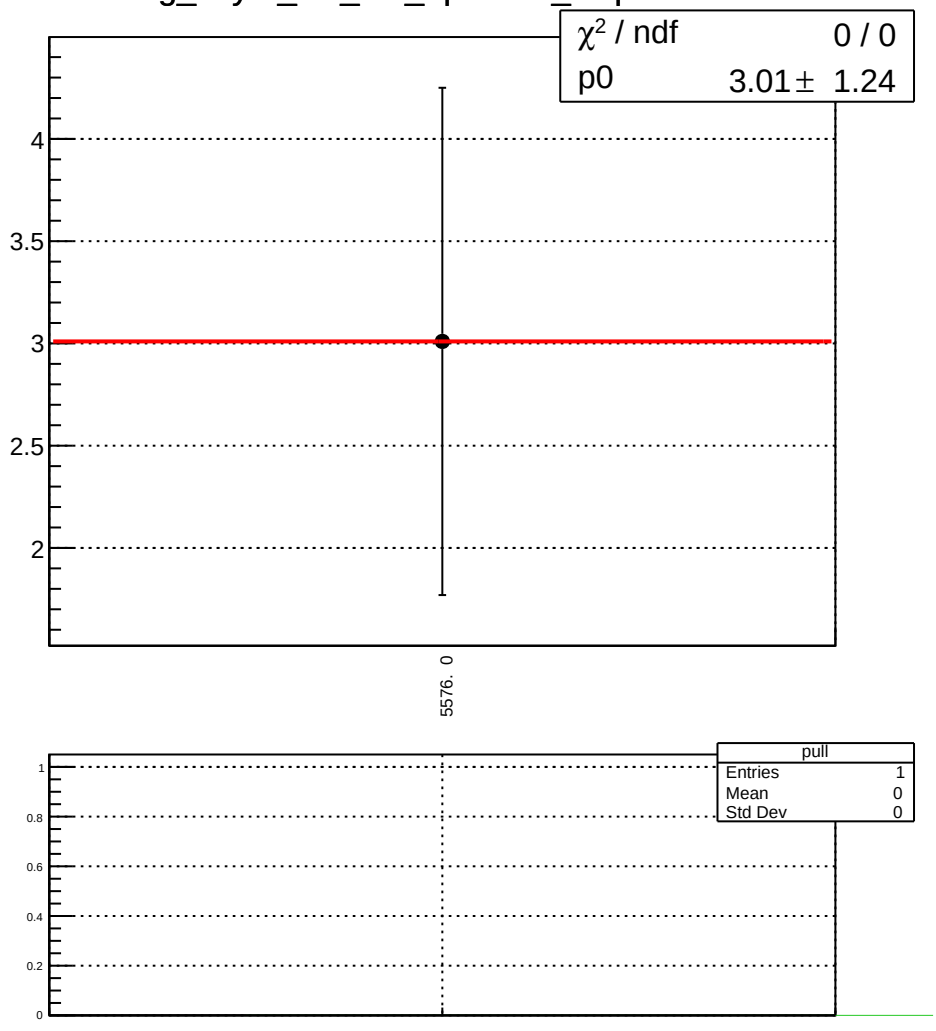

pull1D
Entries 1
Mean 6.709e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

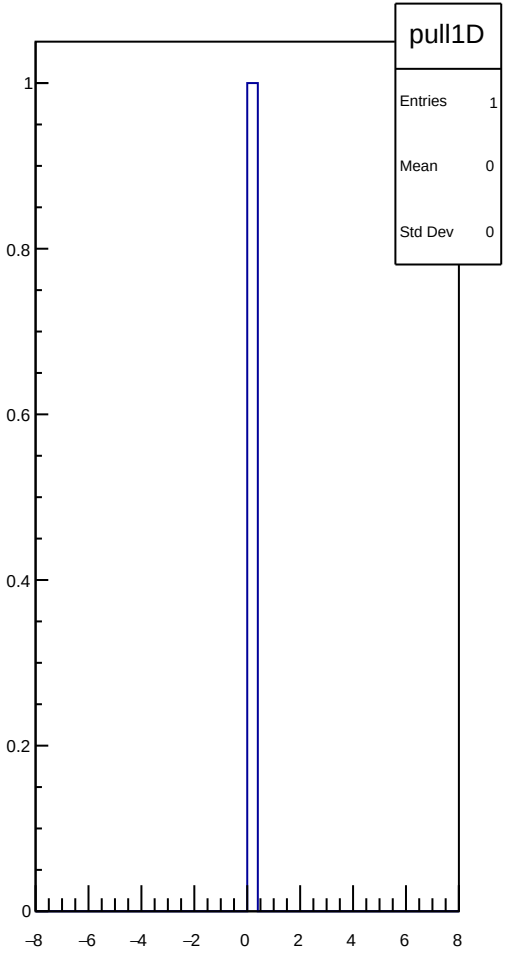

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 0.1844 ± 1.775
2
1.5
1
0.5
0
−0.5
−1
−1.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

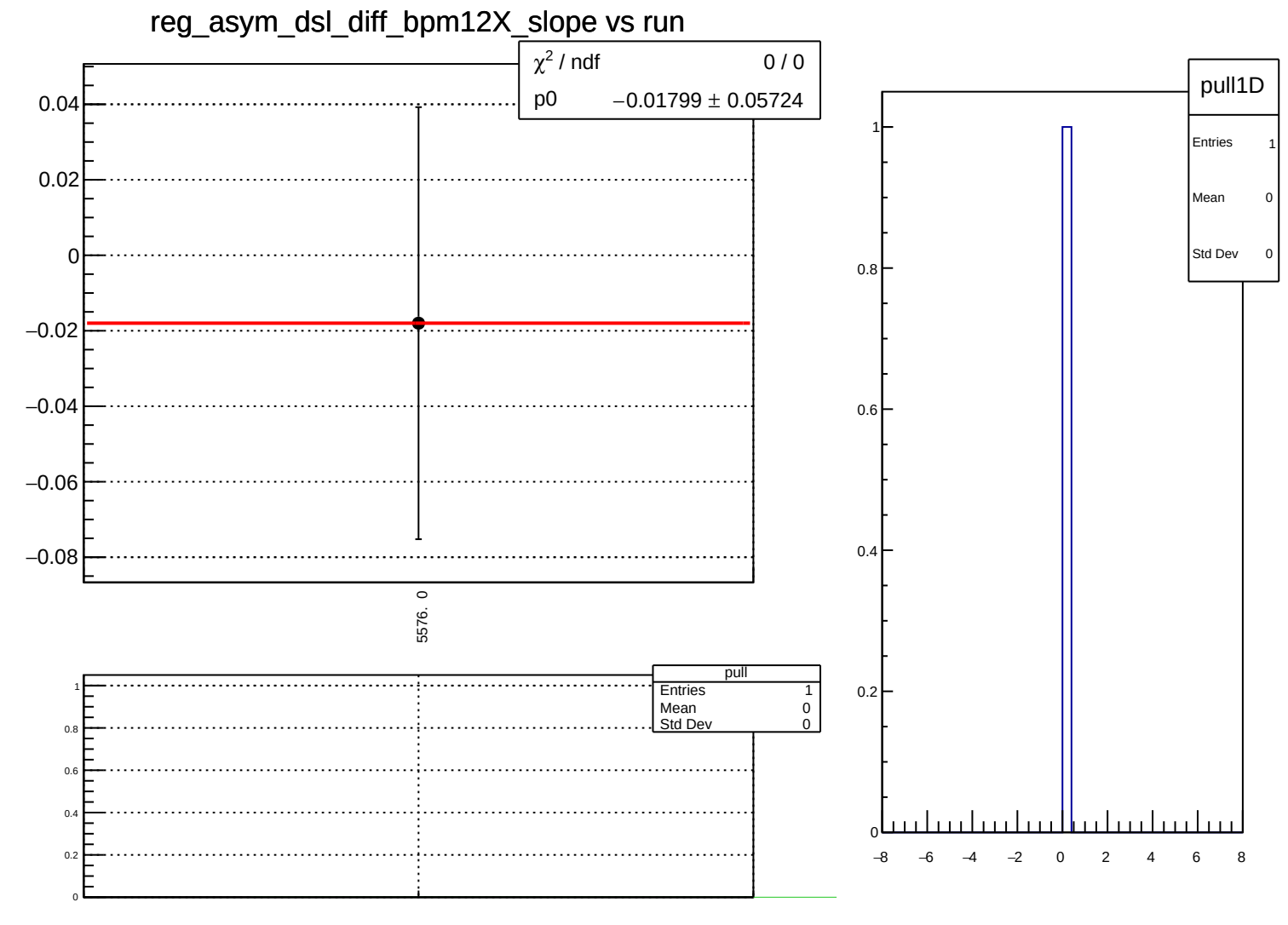

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

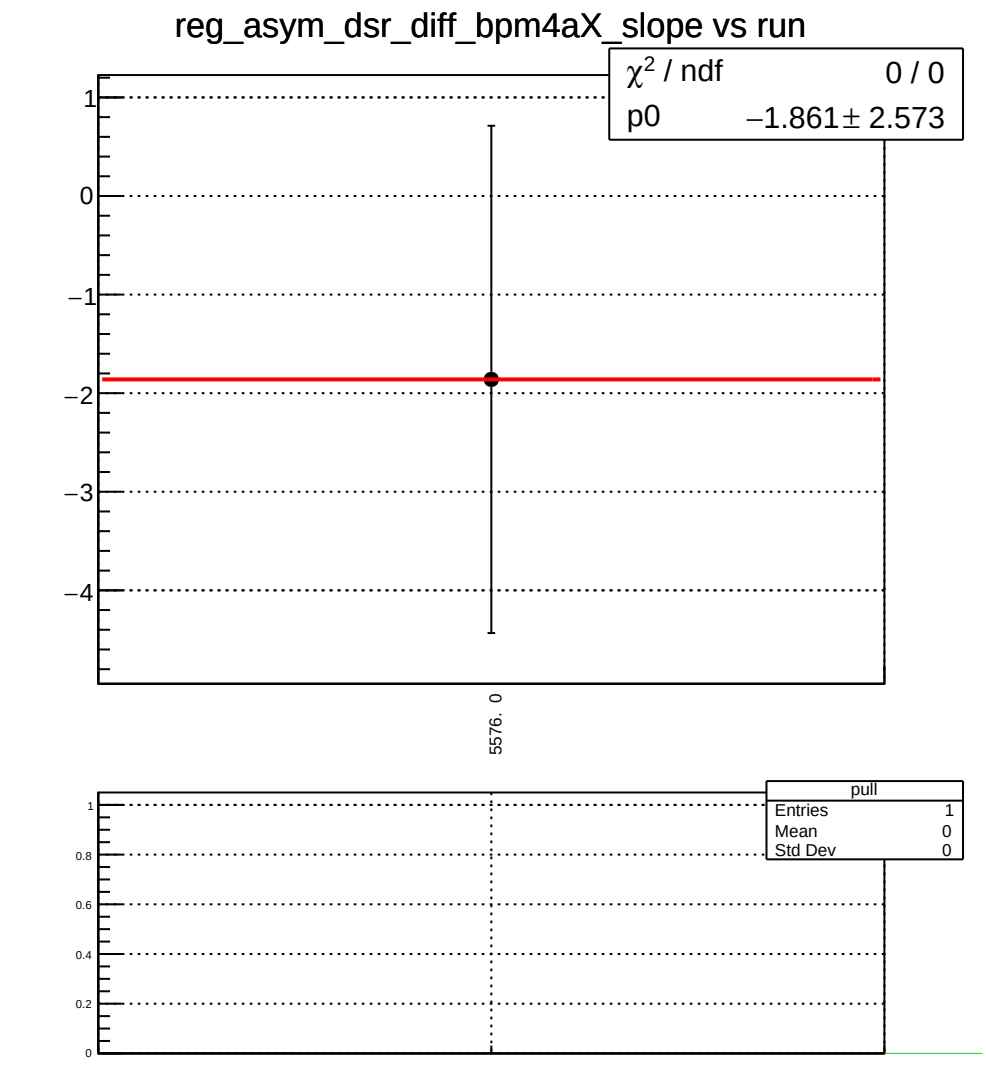

reg_asym_dsl_diff_bpm4aY_slope vs run
χ2 / ndf 0 / 0
p0 −2.277 ± 0.931
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

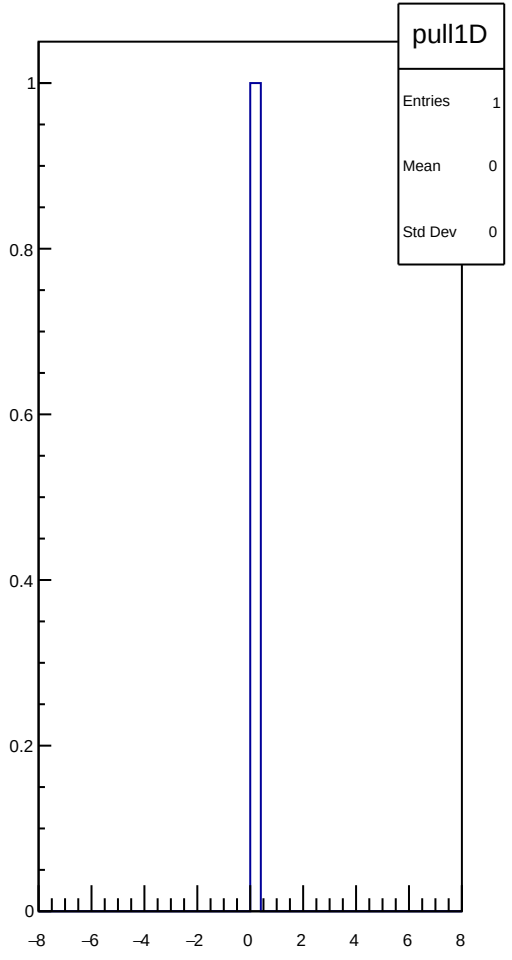

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 0.0168 ± 1.688
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

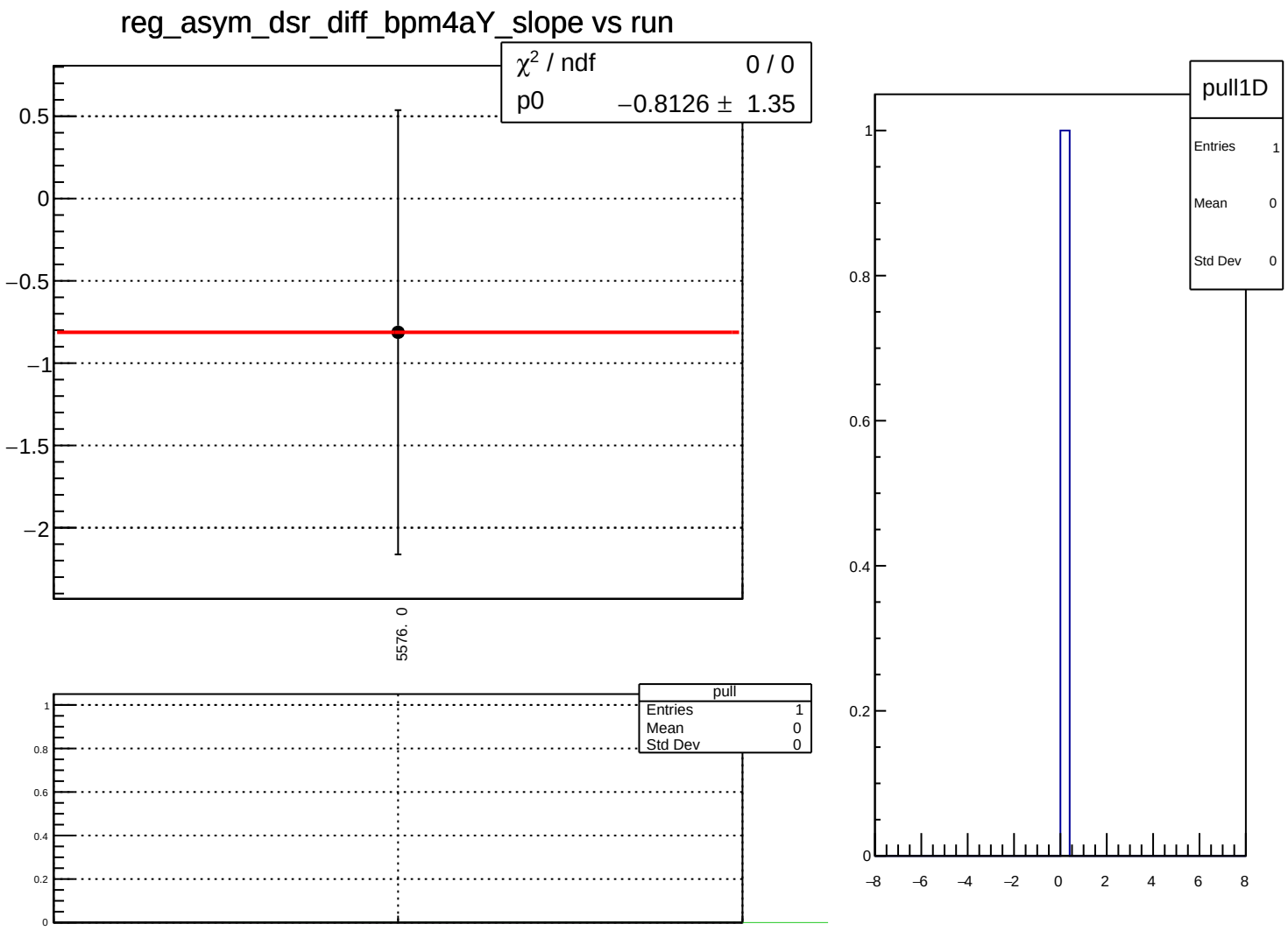

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 3.01 ± 1.24
4
3.5
3
2.5
2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

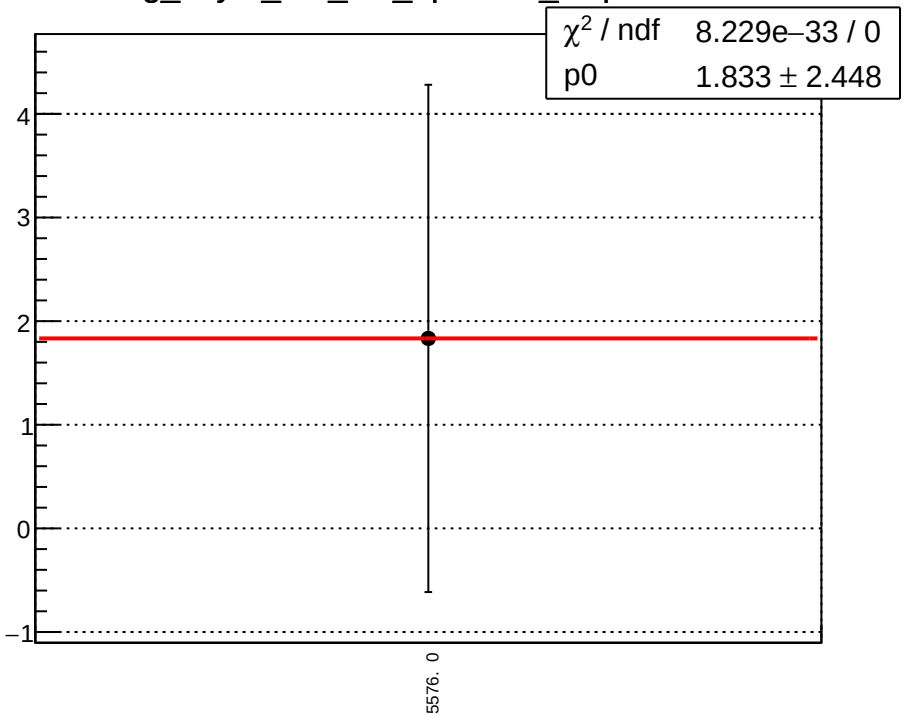

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

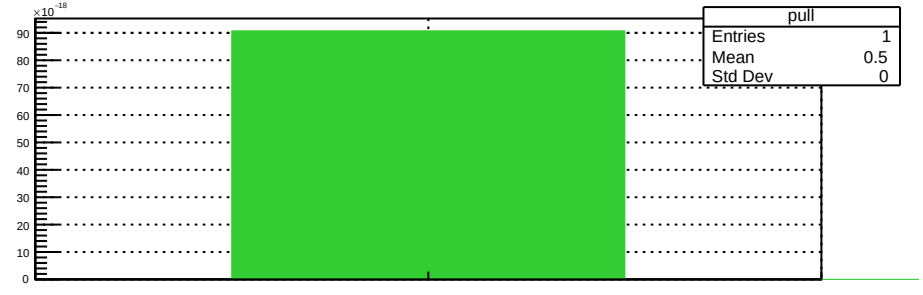

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.01799 ± 0.05724
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

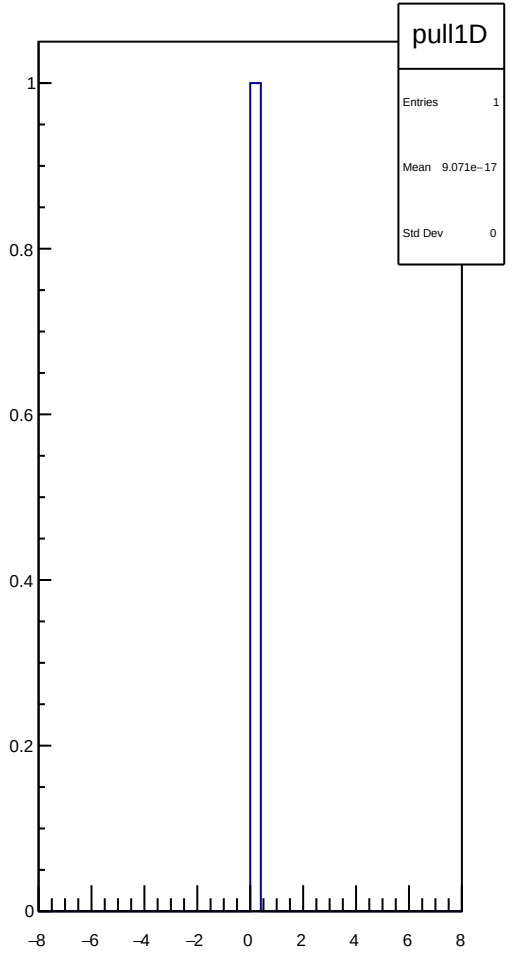

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −1.861 ± 2.573
5576. 0
pull
Entries 1
Mean 0
Std Dev 0

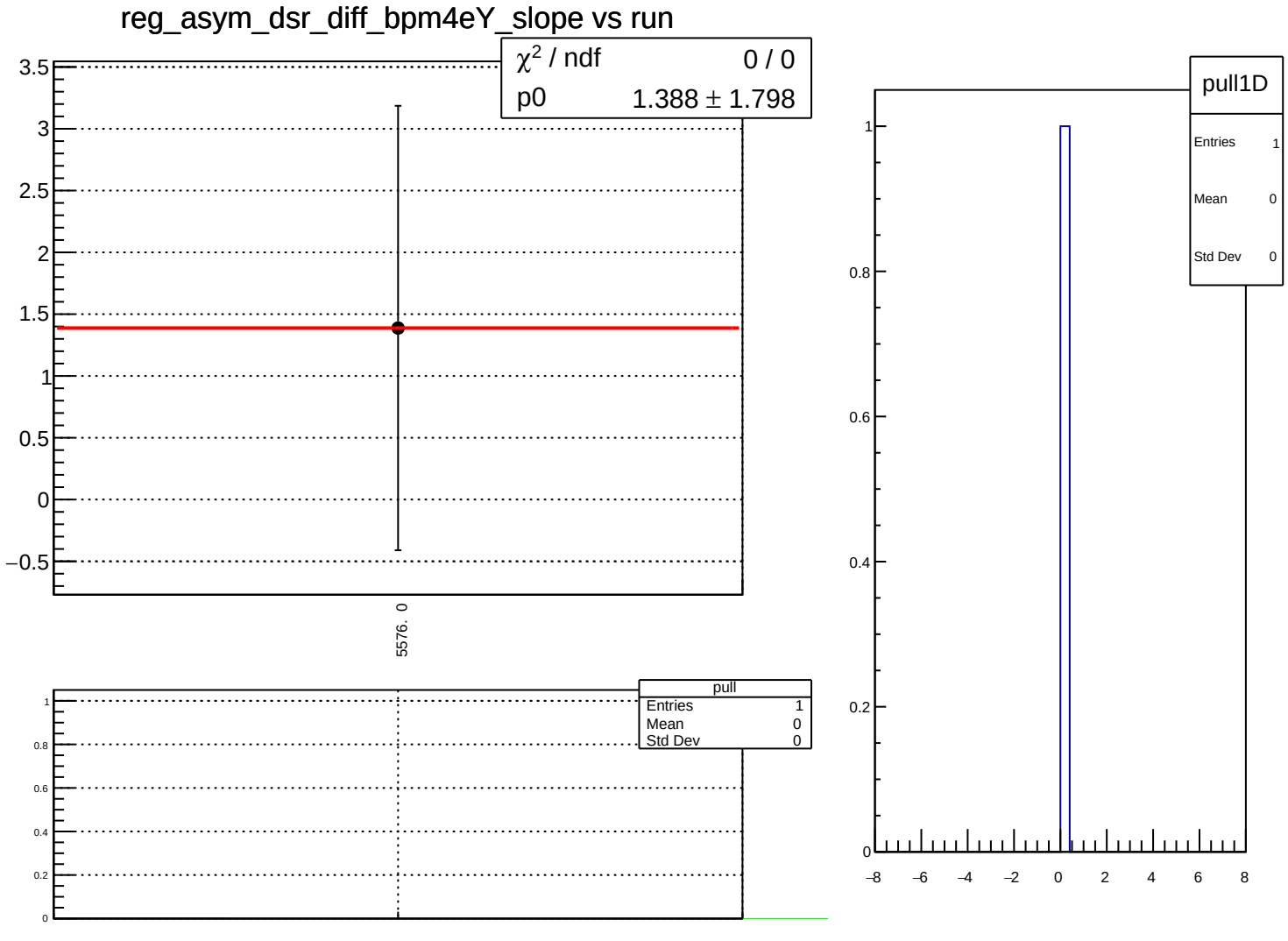

pull1D
Entries 1
Mean 0
Std Dev 0

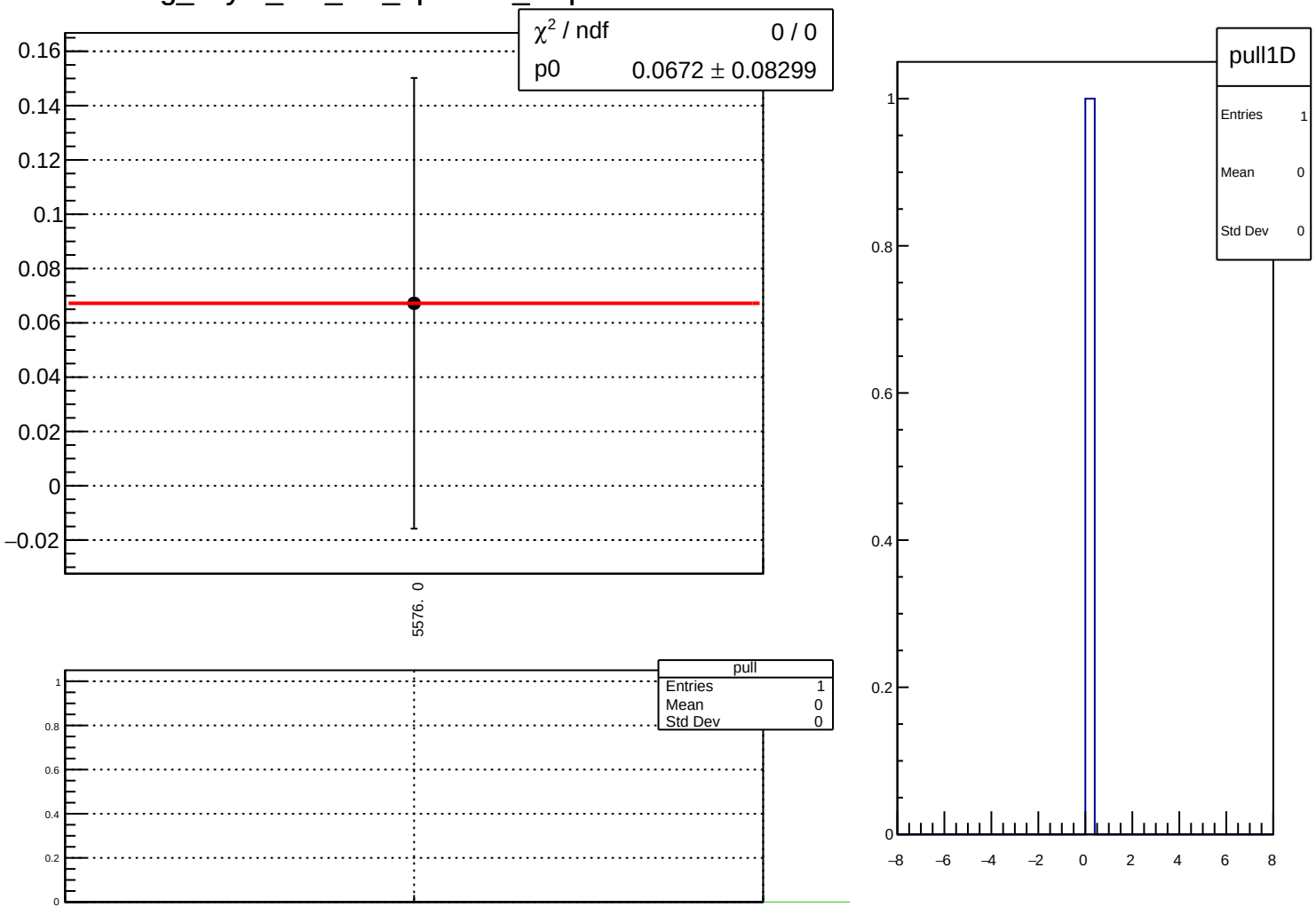

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −0.8126 ± 1.35
0.5
0
−0.5
−1
−1.5
−2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

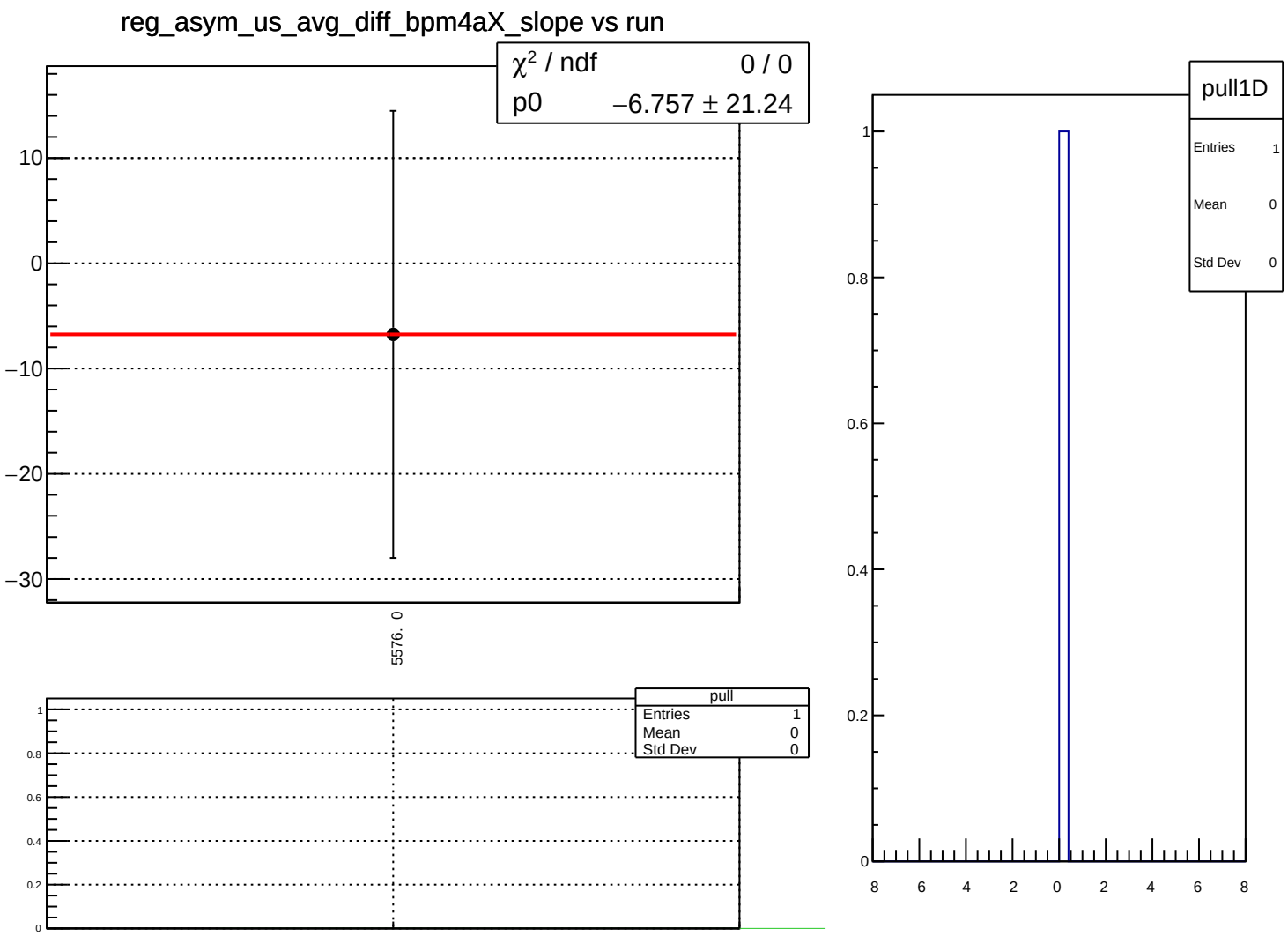

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 8.229e−33 / 0
p0 1.833 ± 2.448
4
3
2
1
0
−1
5576. 0

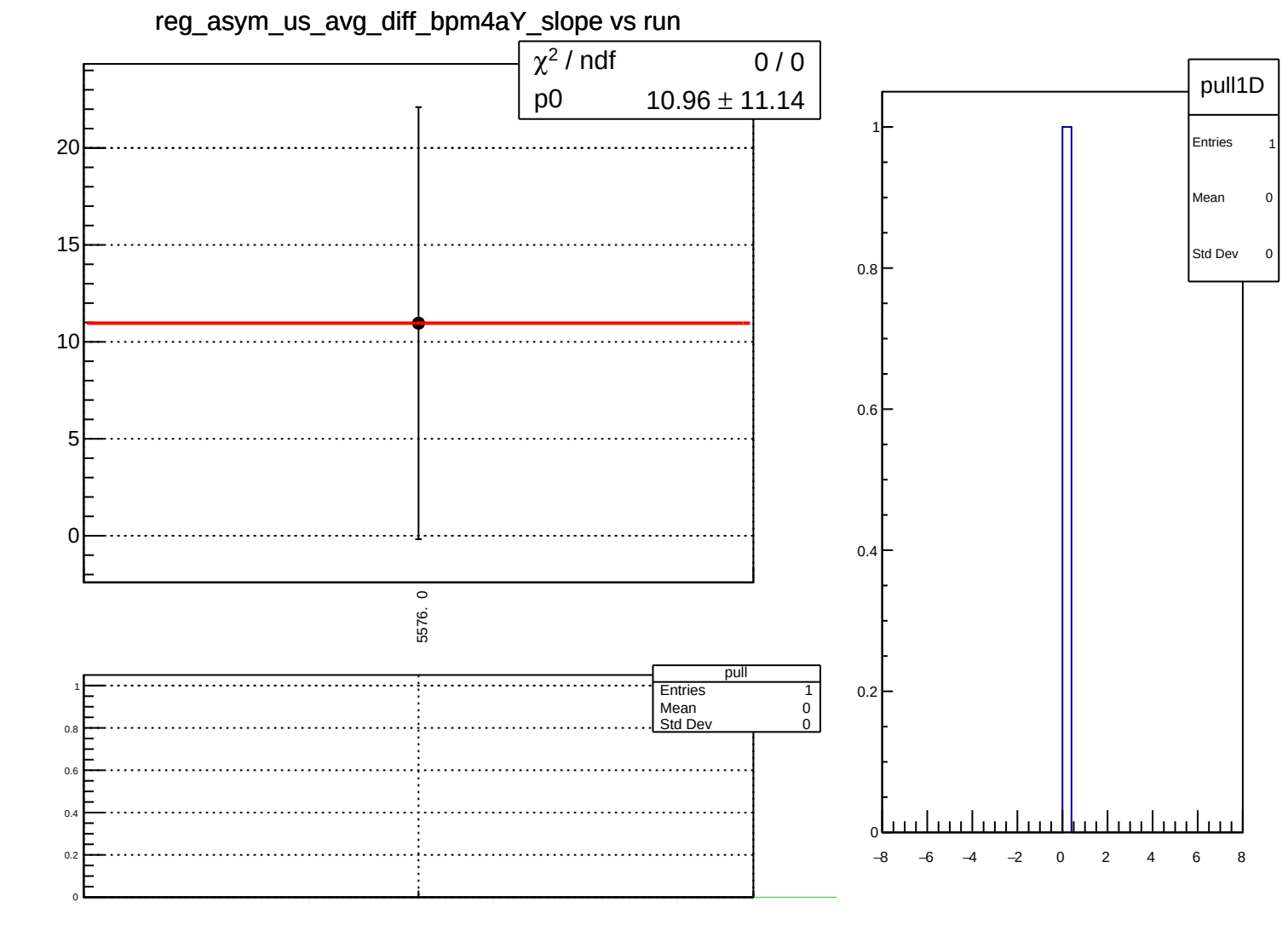

×10⁻¹⁸
90
80
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

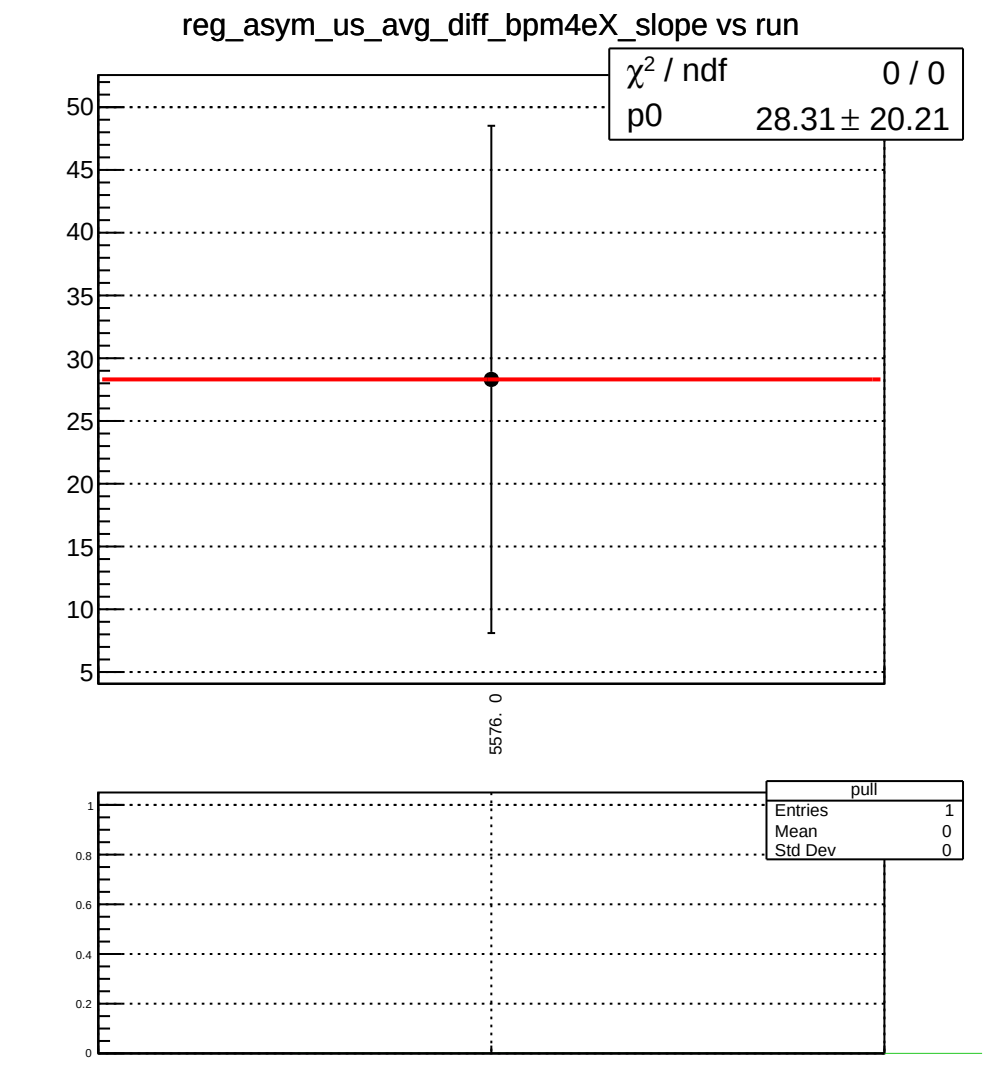

pull1D
Entries 1
Mean 9.071e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

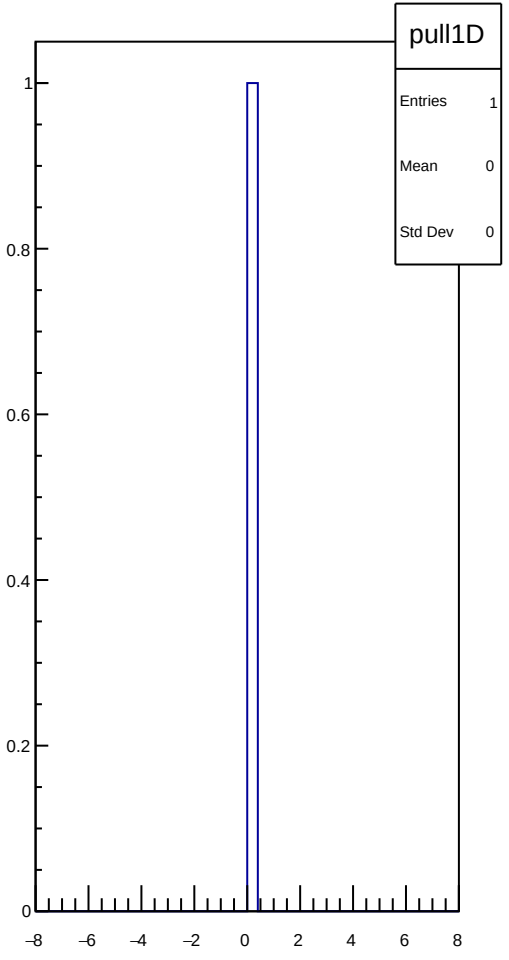

reg_asym_dsr_diff_bpm4eY_slope vs run
χ2 / ndf 0 / 0
p0 1.388 ± 1.798
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

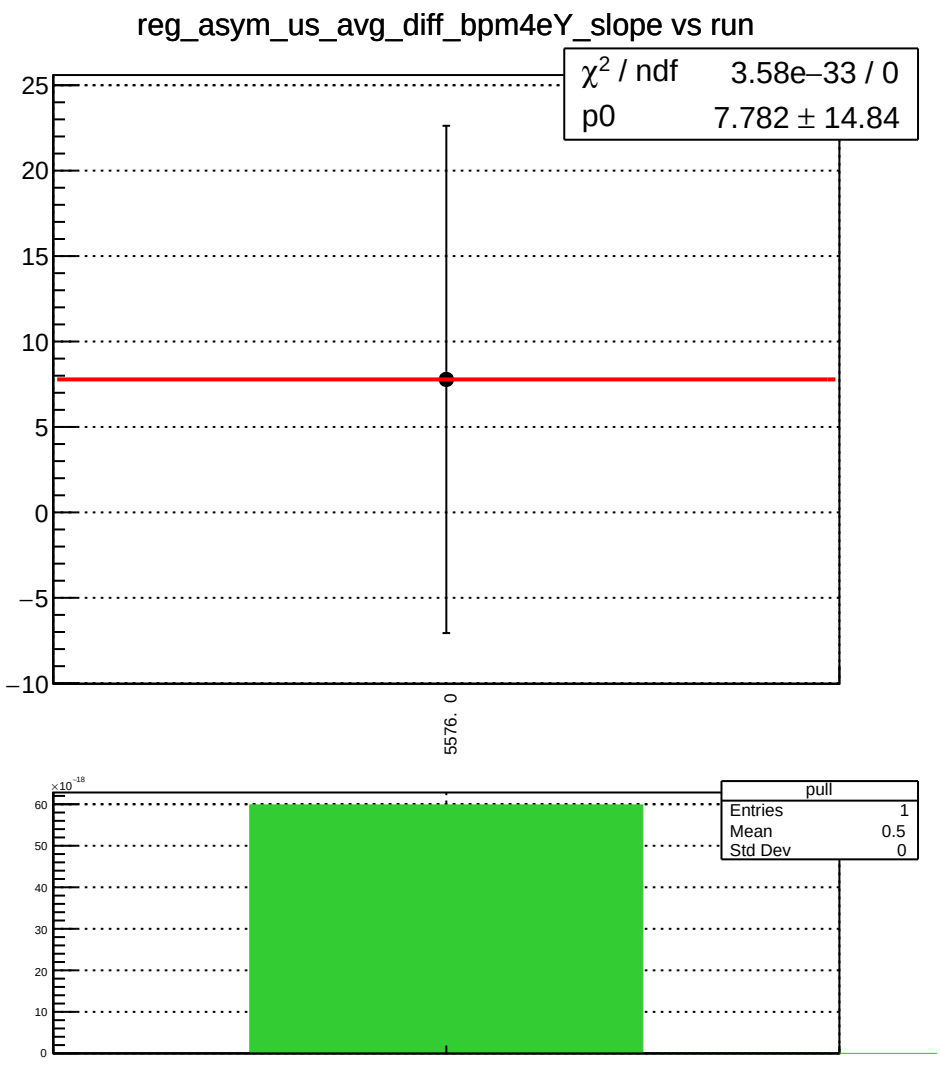

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.0672 ± 0.08299
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

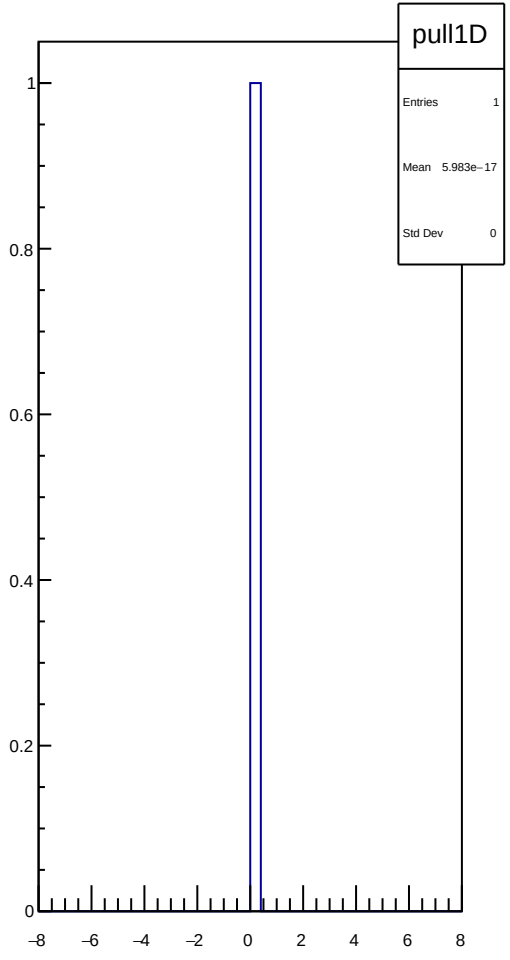

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −6.757 ± 21.24
10
0
−10
−20
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

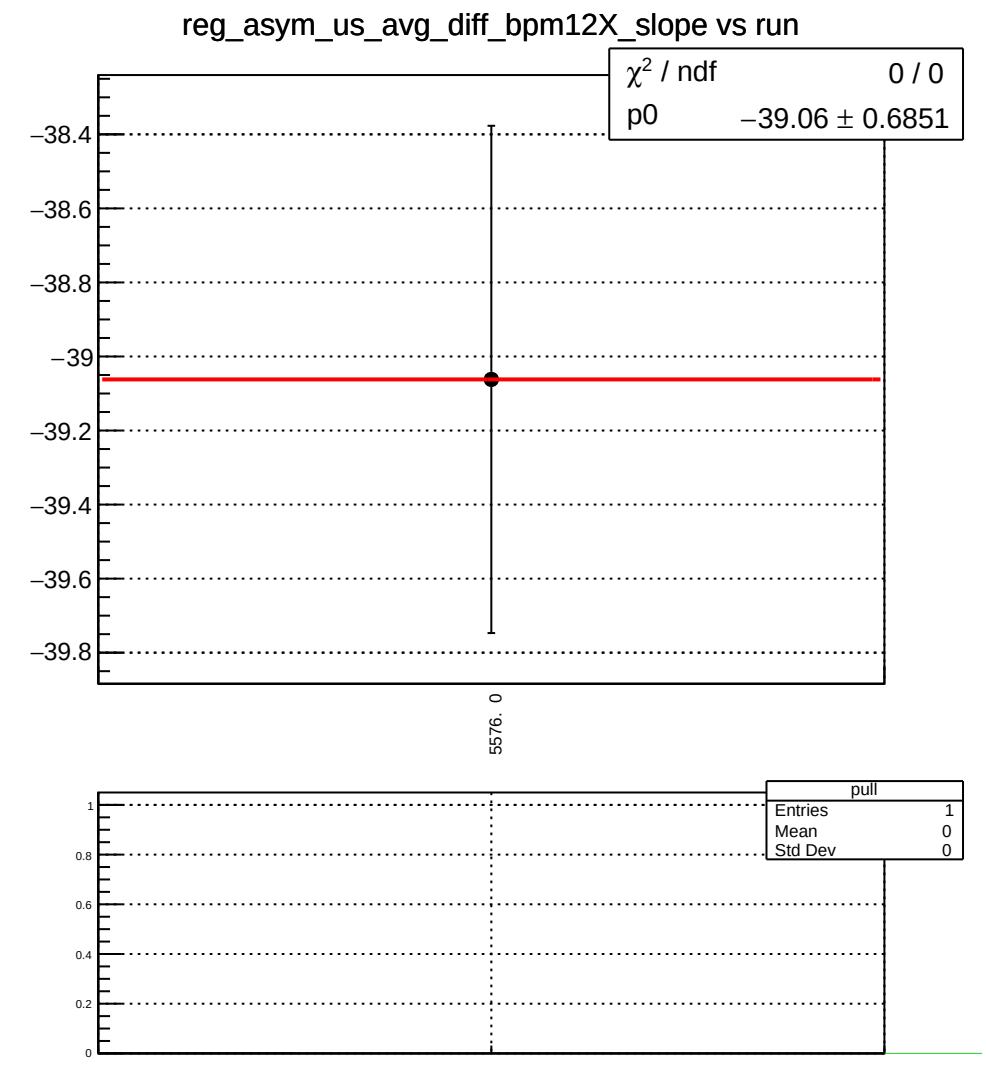

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 10.96 ± 11.14
20
15
10
5
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

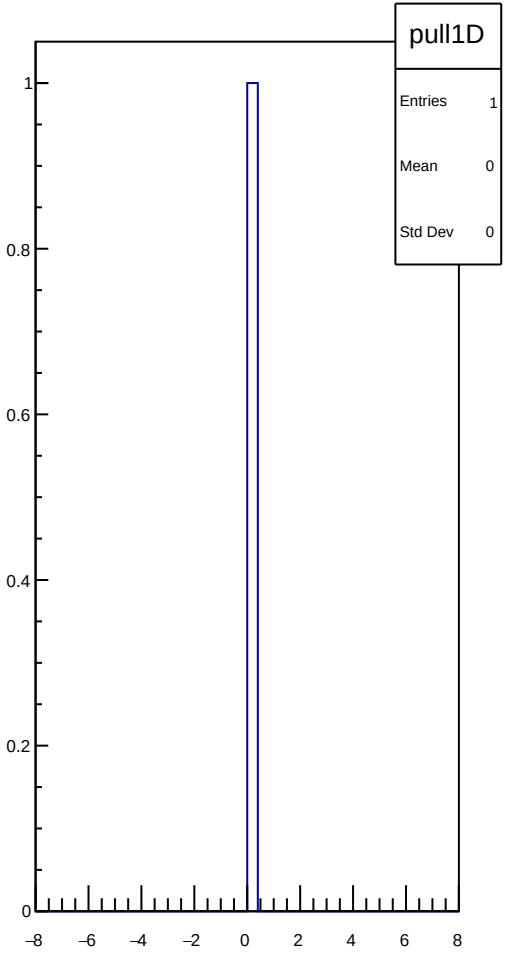

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 28.31 ± 20.21
50
45
40
35
30
25
20
15
10
5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

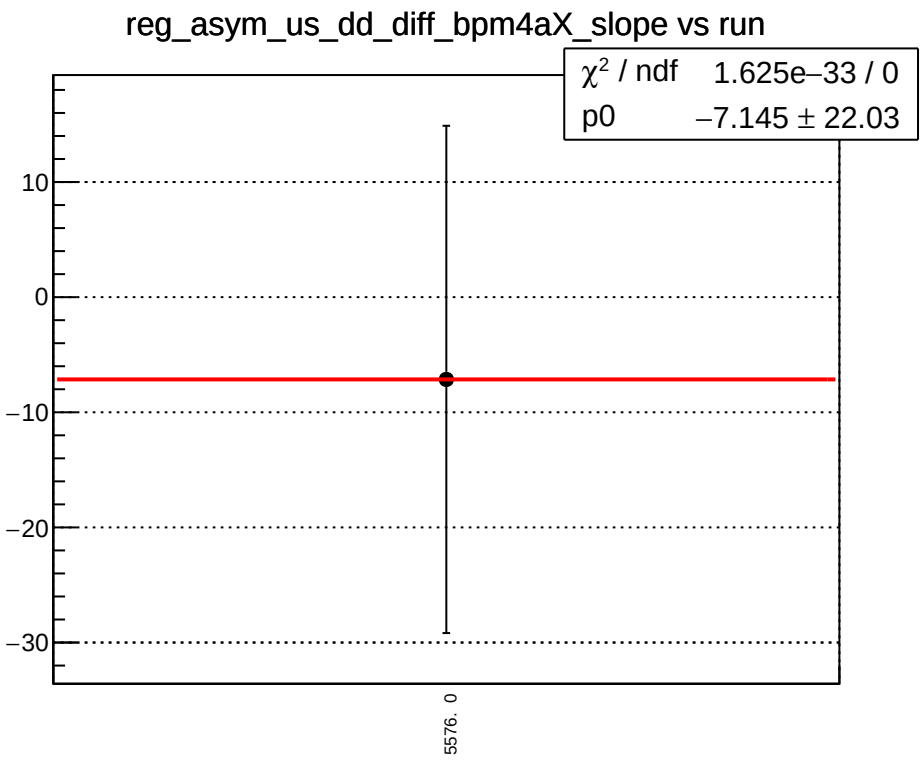

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

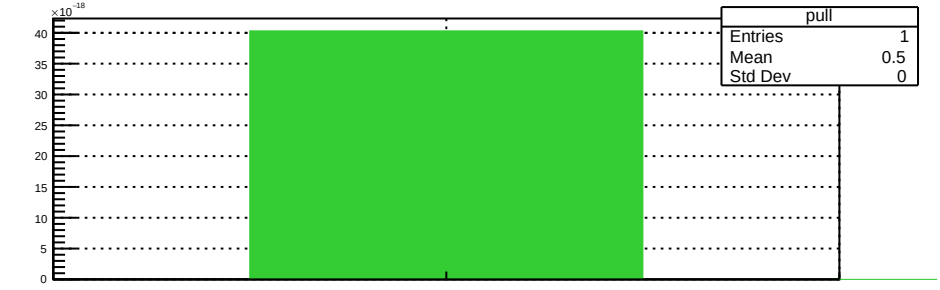

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.58e−33 / 0
p0 7.782 ± 14.84
25
20
15
10
5
0
−5
−10
5576. 0
×10⁻¹⁸
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

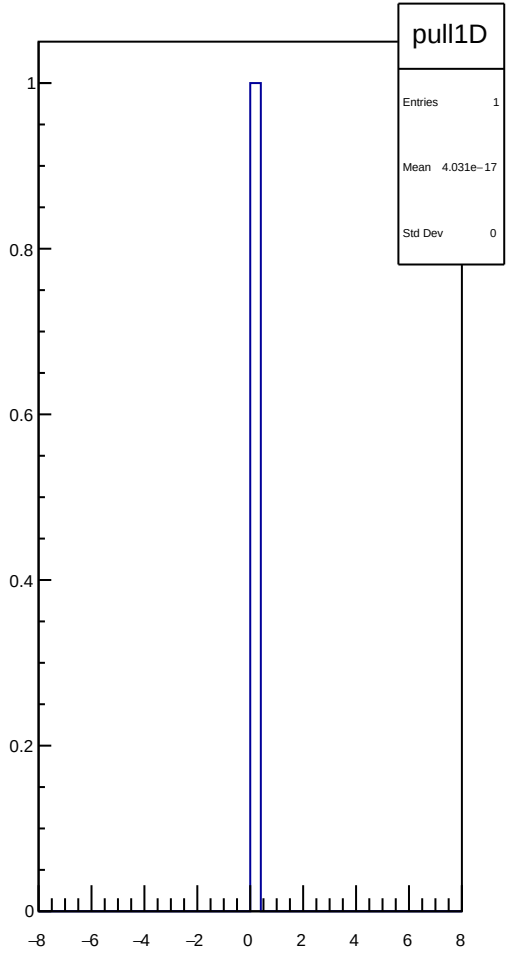

pull1D
Entries 1
Mean 5.983e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

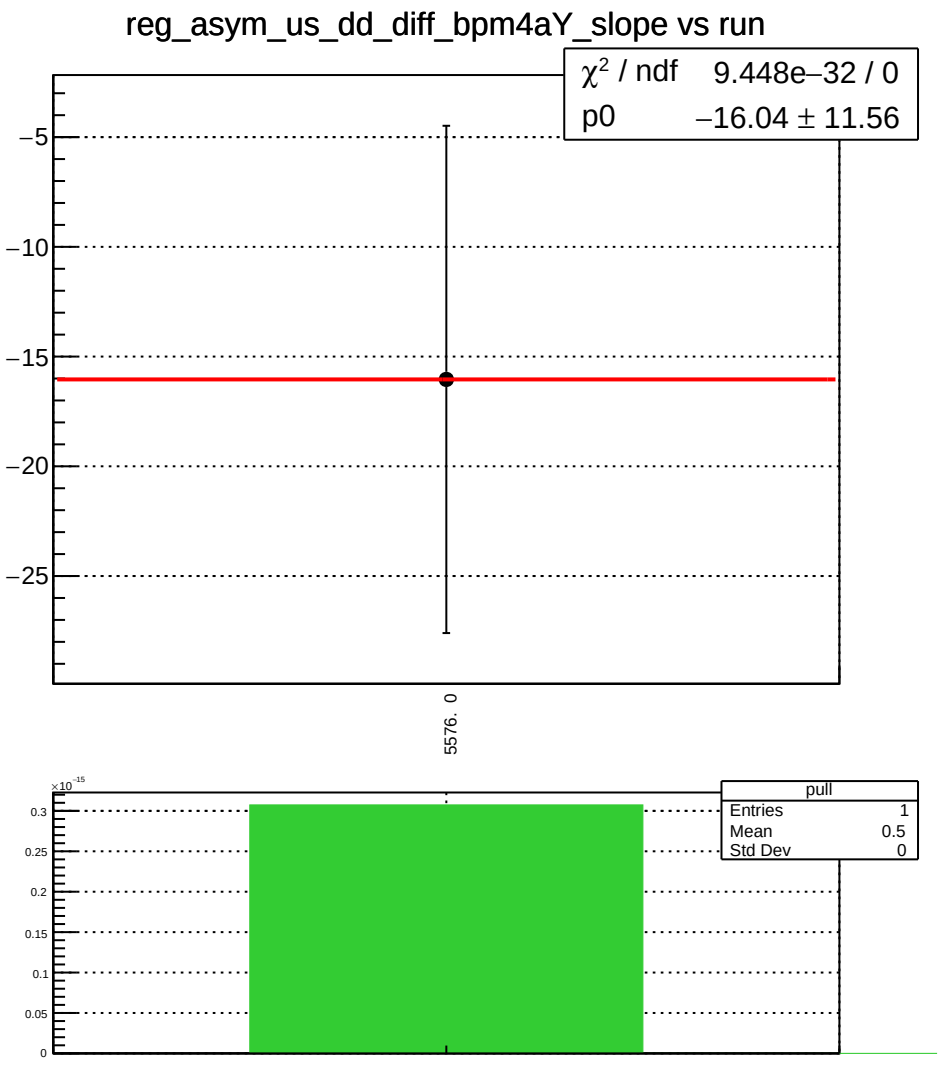

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −39.06 ± 0.6851
−38.4
−38.6
−38.8
−39
−39.2
−39.4
−39.6
−39.8
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

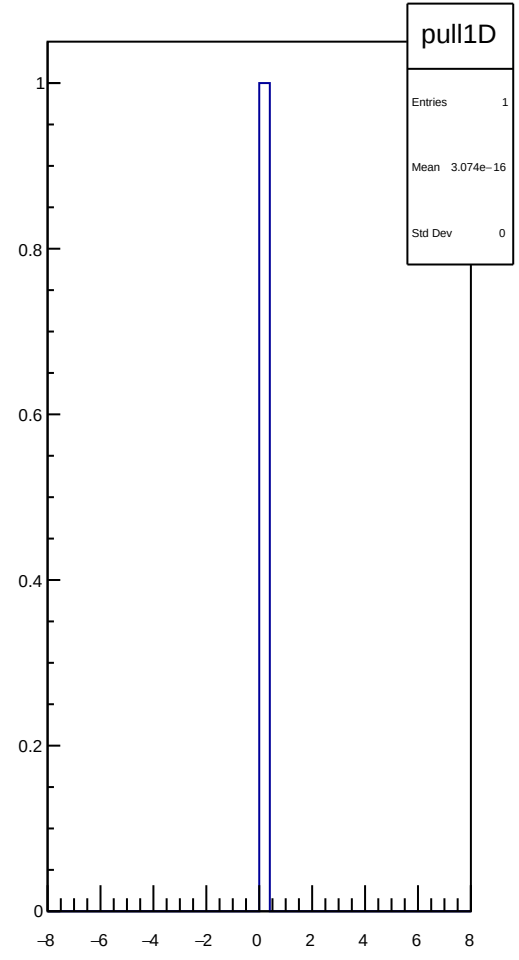

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

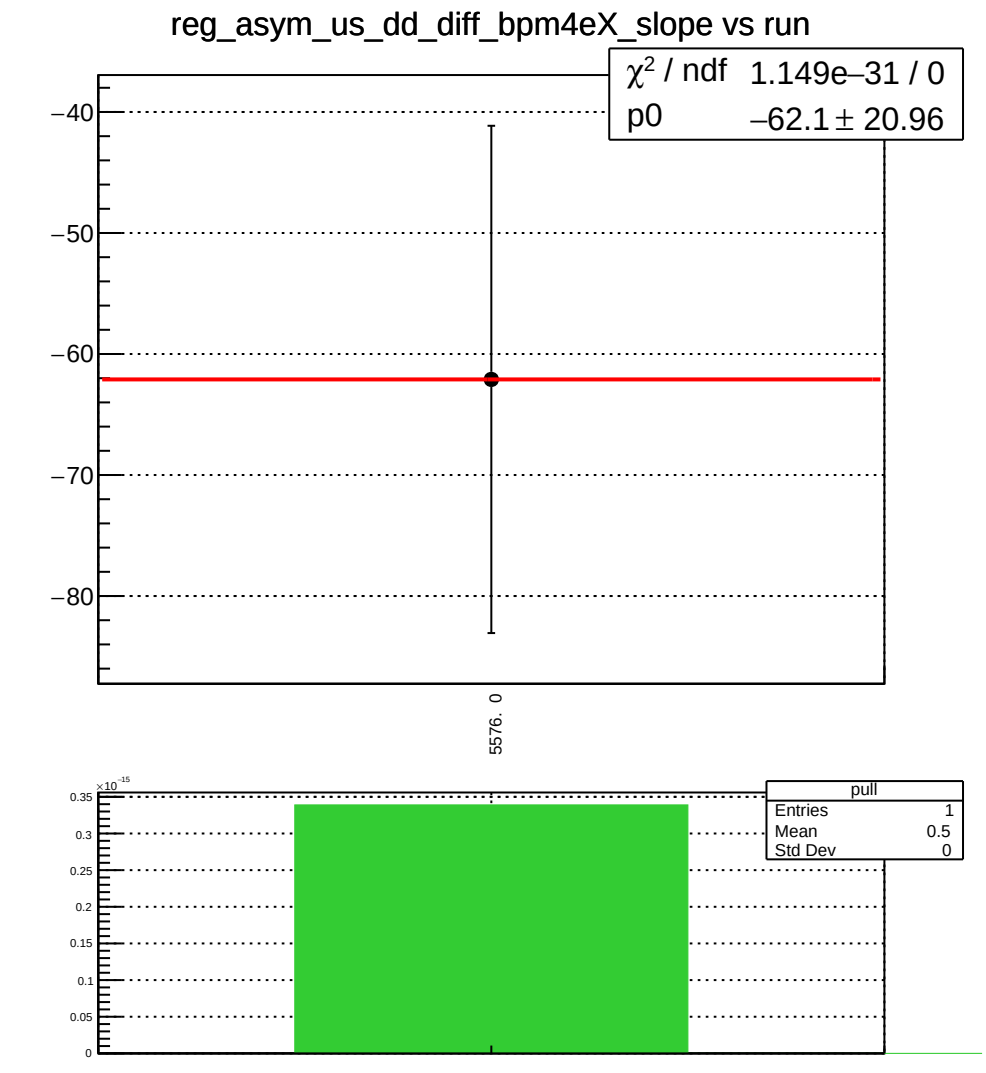

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.625e−33 / 0
p0 −7.145 ± 22.03
10
0
−10
−20
−30
5576. 0

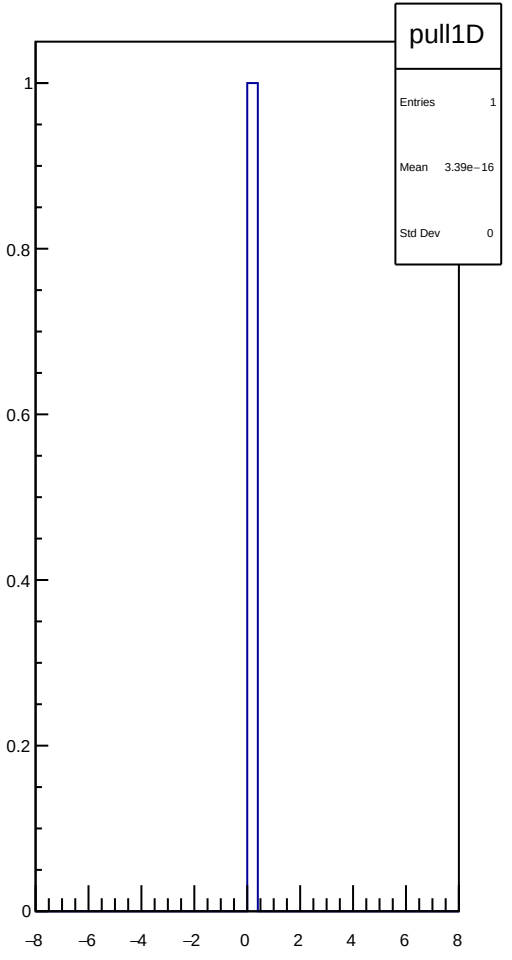

×10⁻¹⁸
40
35
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

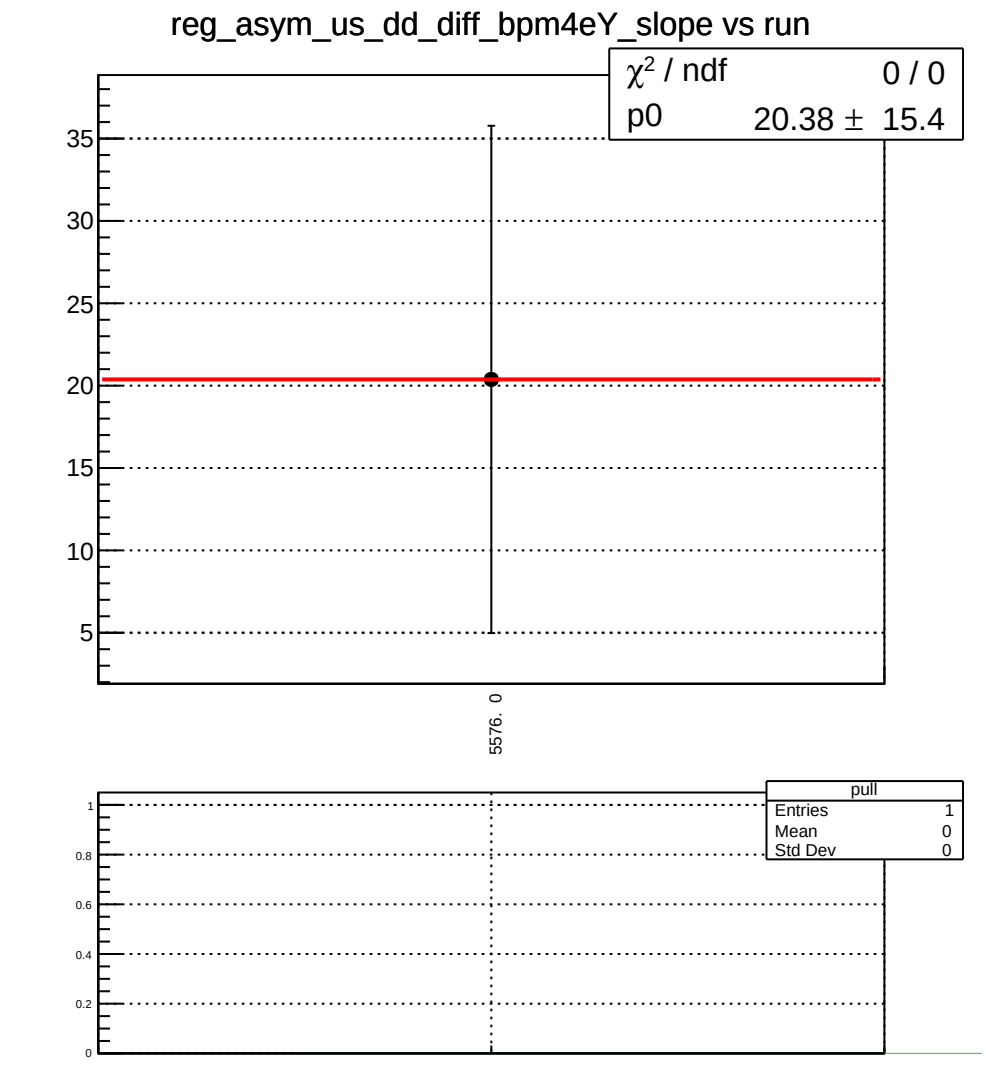

pull1D
Entries 1
Mean 4.031e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

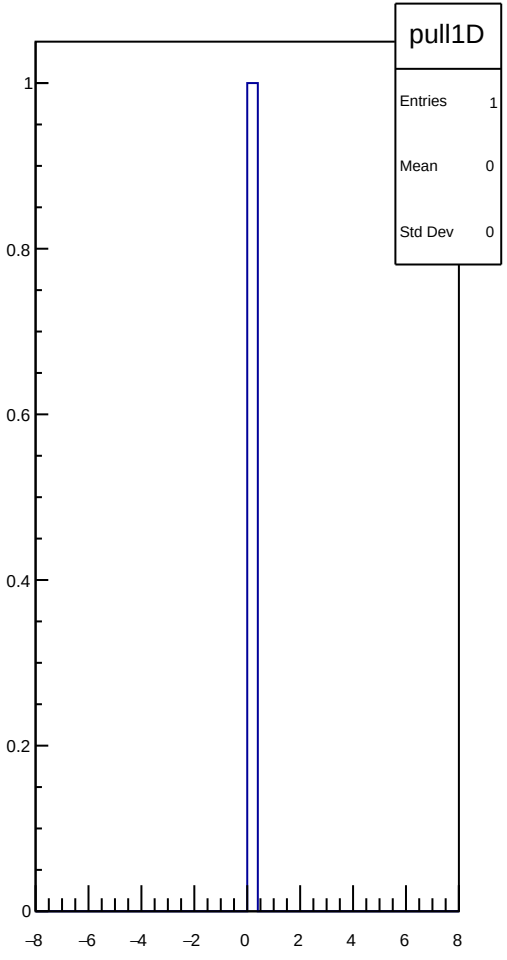

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.448e−32 / 0
p0 −16.04 ± 11.56
−5
−10
−15
−20
−25
5576. 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

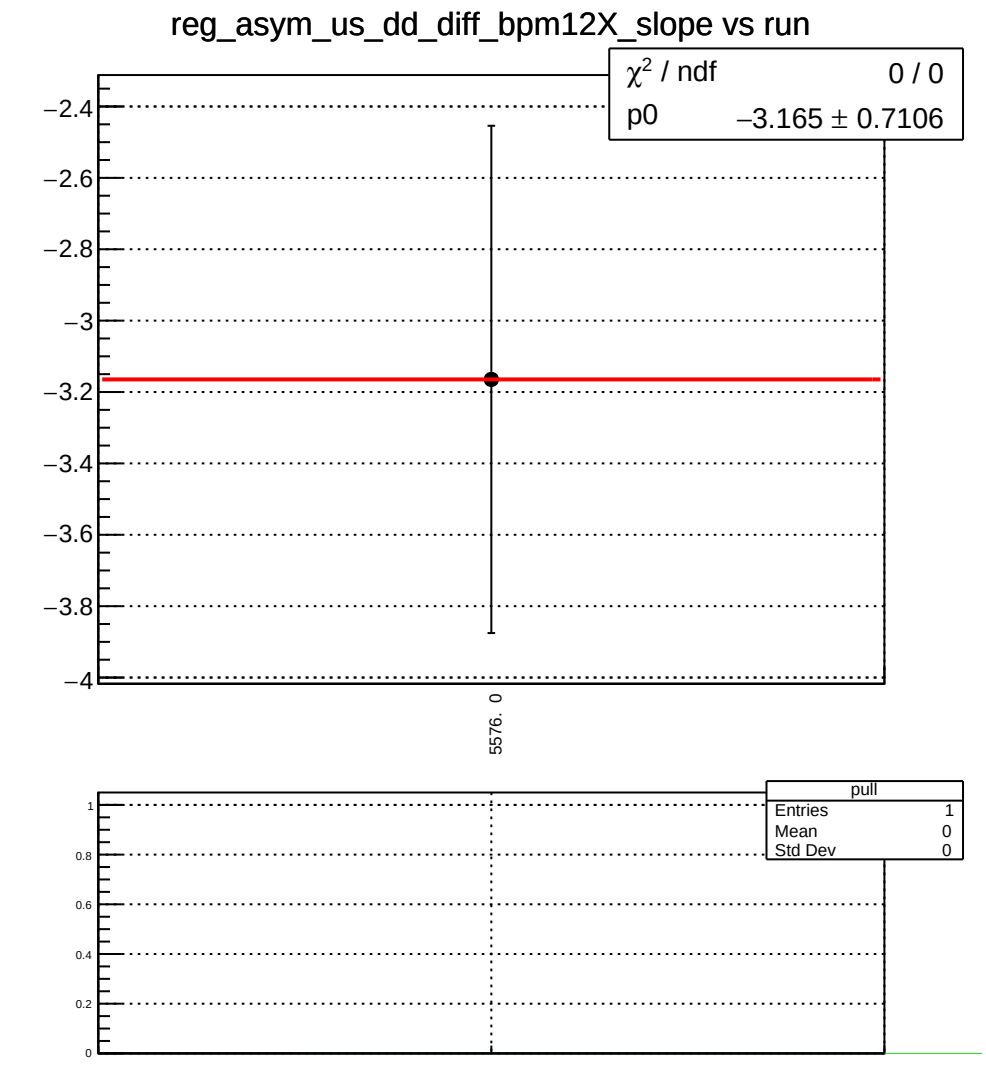

pull1D
Entries 1
Mean 3.074e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

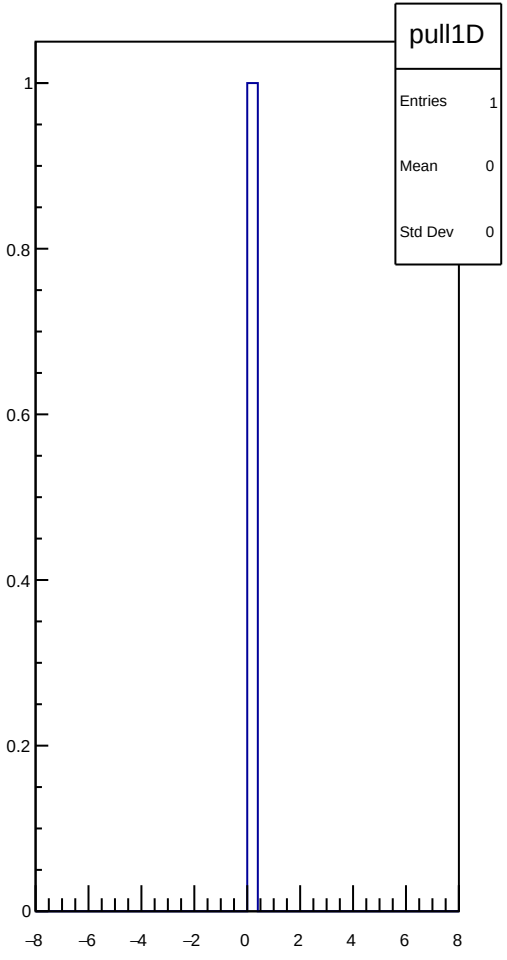

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.149e−31 / 0
p0 −62.1 ± 20.96
−40
−50
−60
−70
−80
5576. 0
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

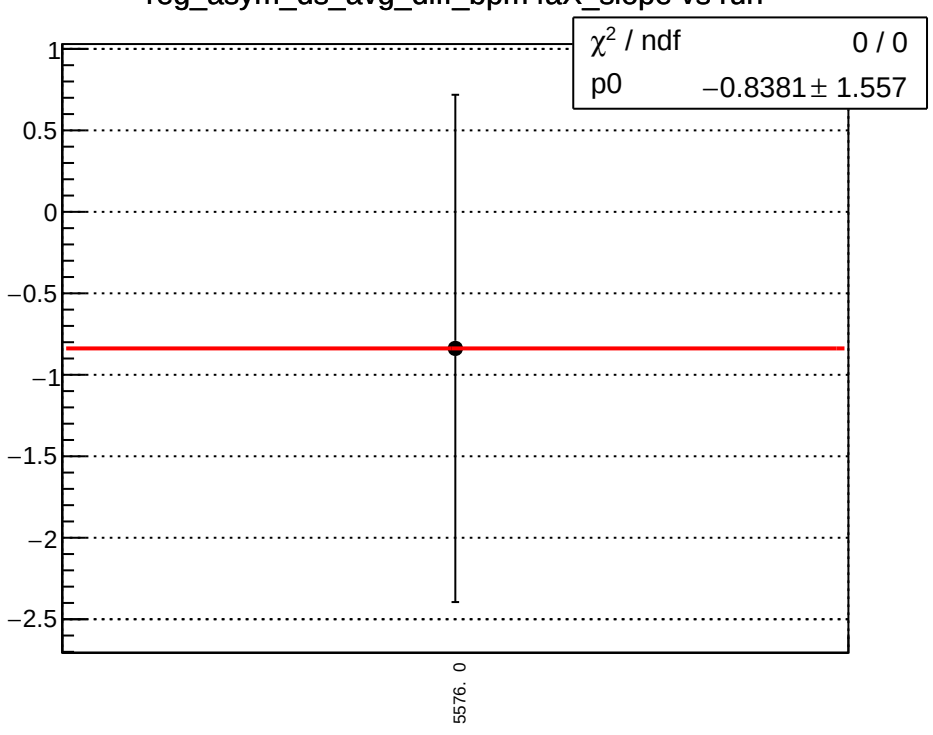

pull1D
Entries 1
Mean 3.39e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

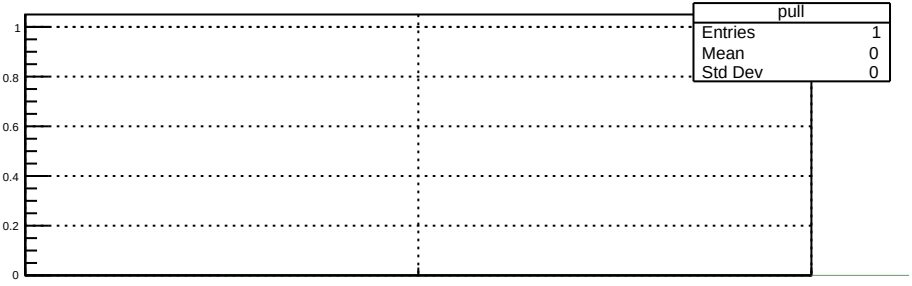

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 20.38 ± 15.4
35
30
25
20
15
10
5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

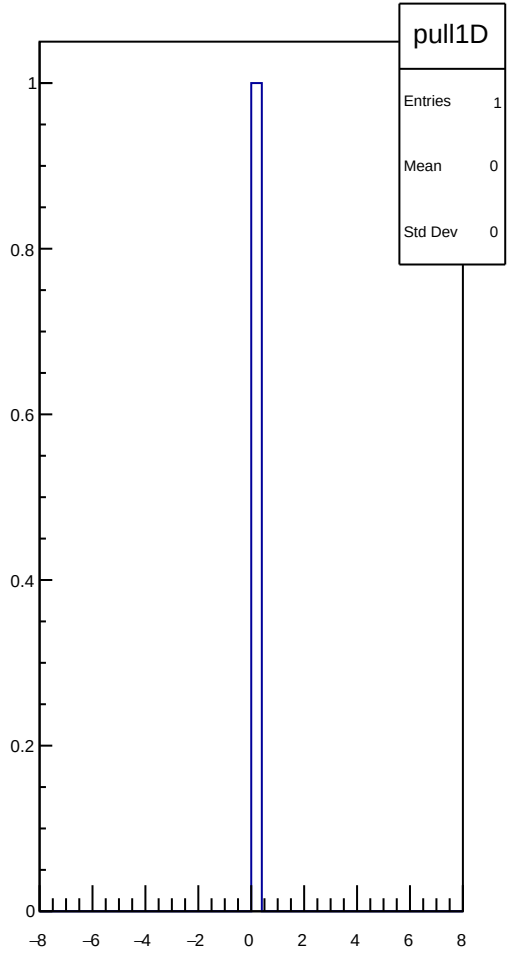

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

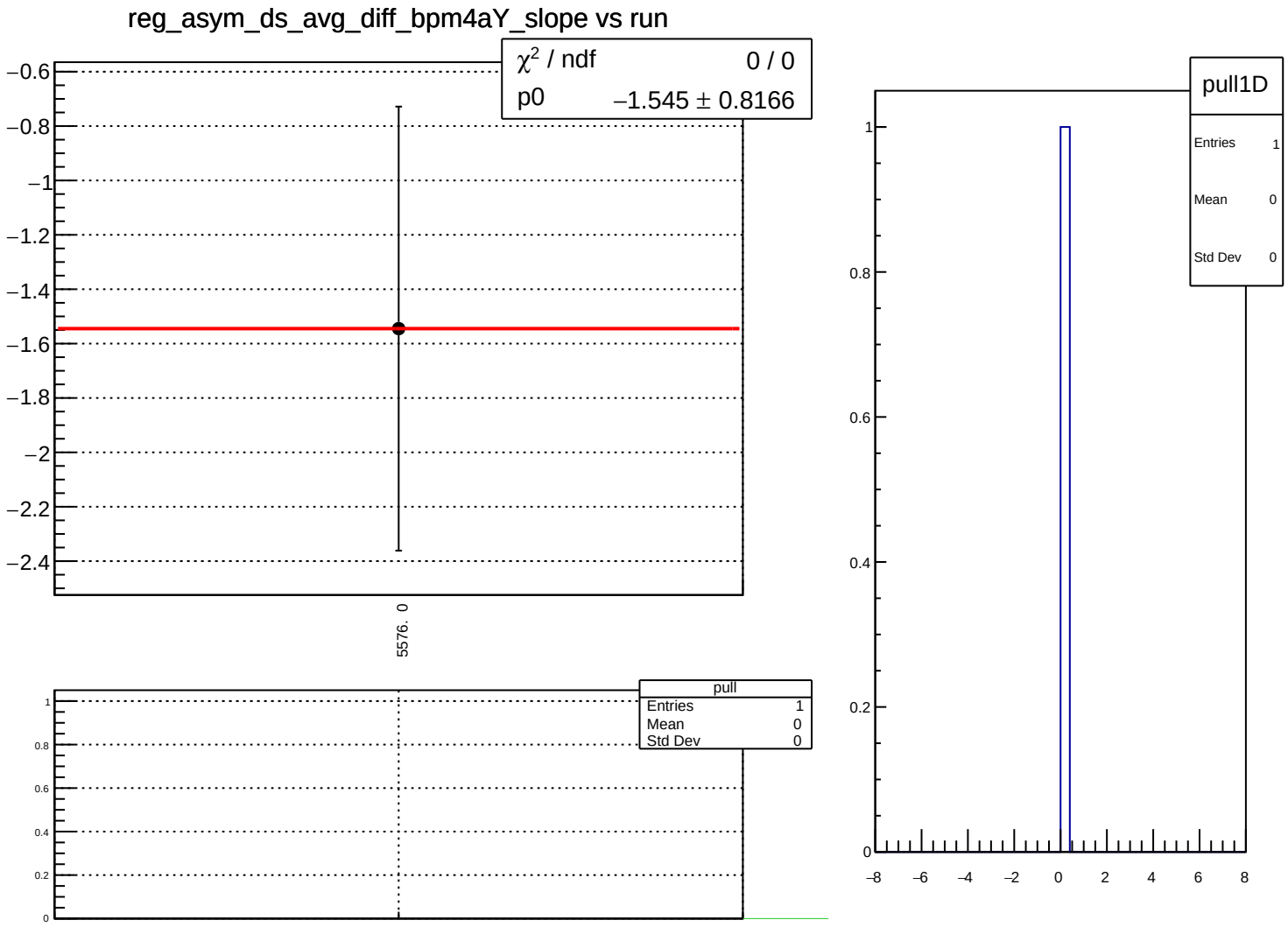

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −3.165 ± 0.7106
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
−4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

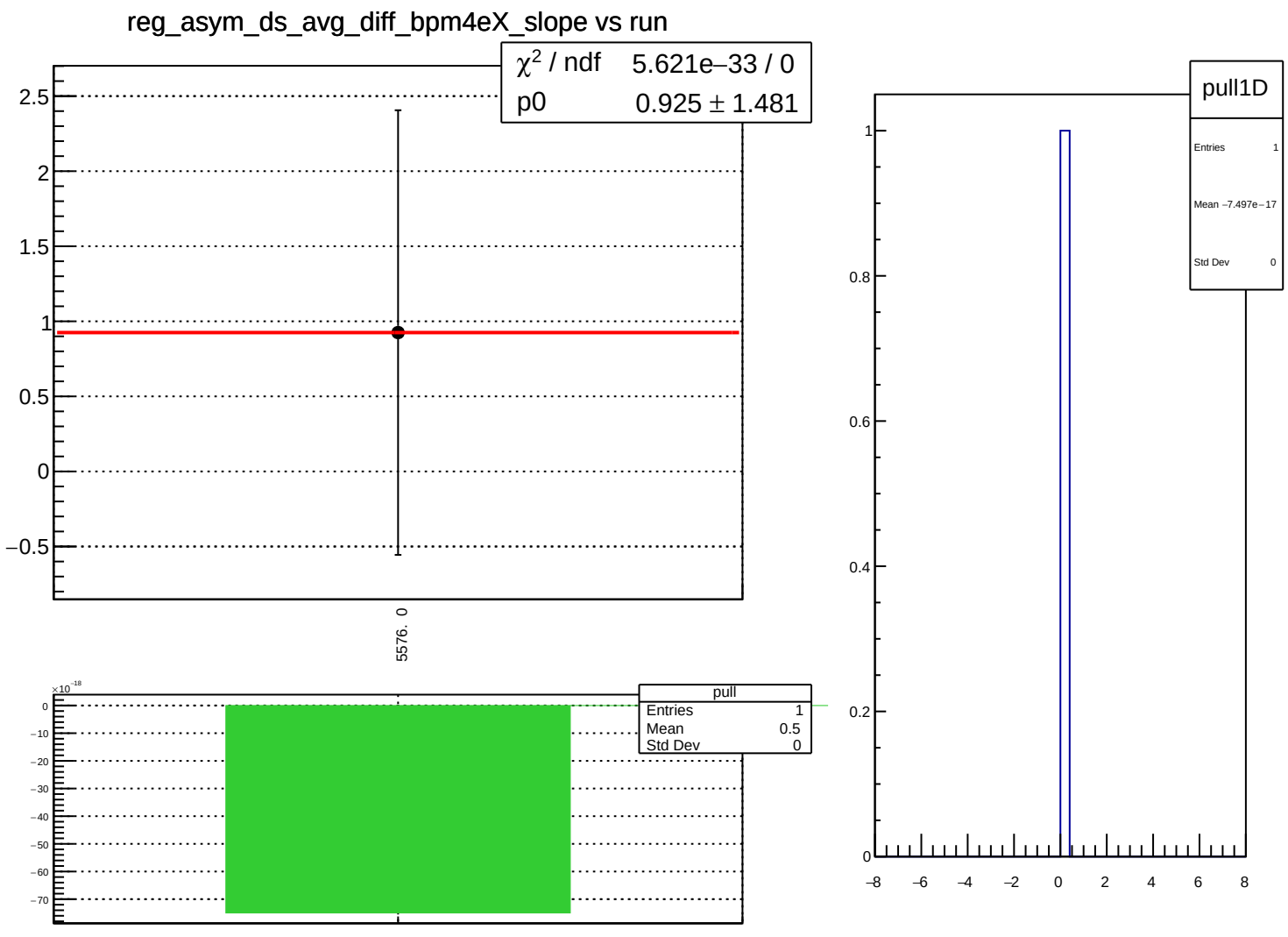

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

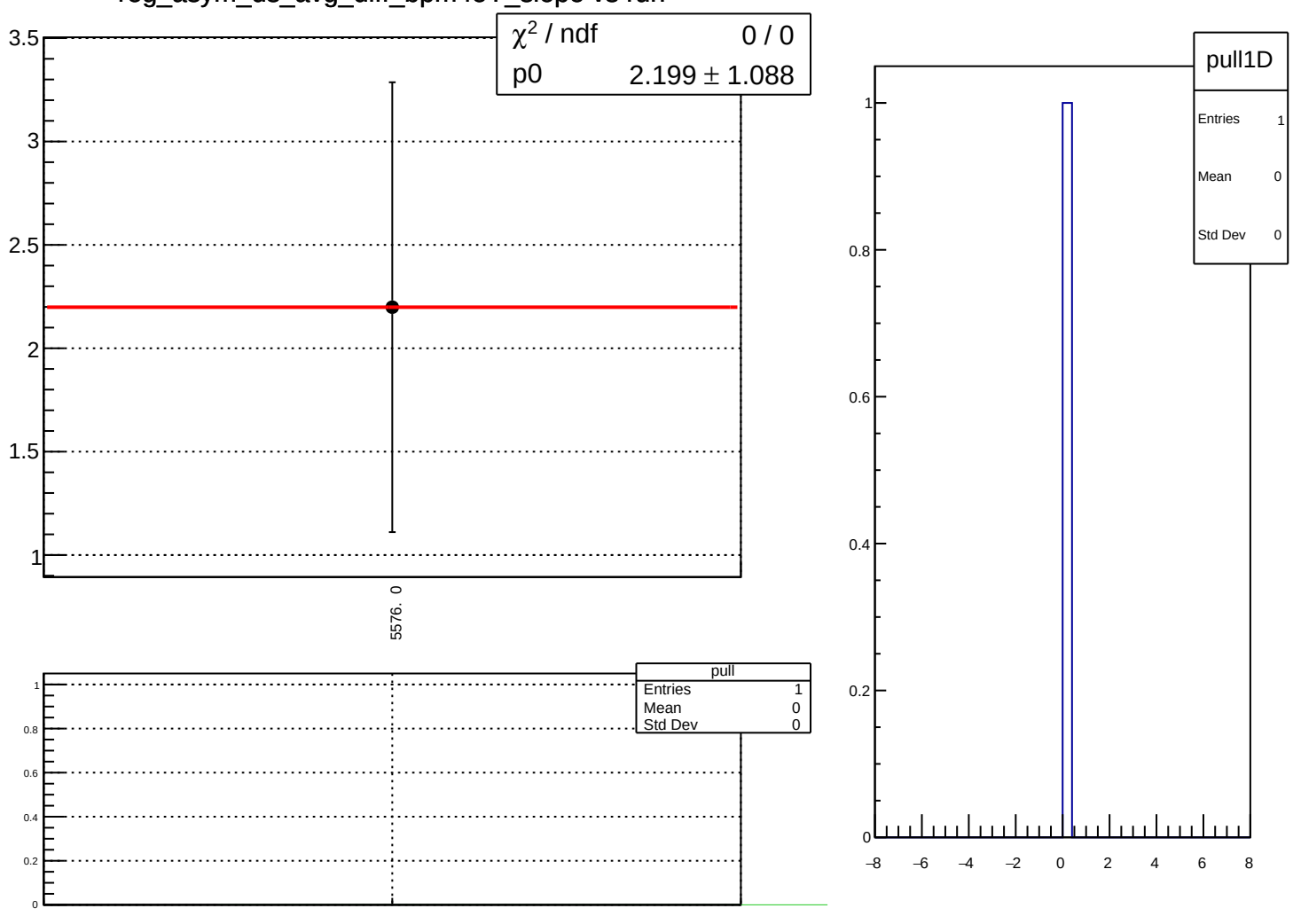

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −0.8381 ± 1.557
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5576. 0

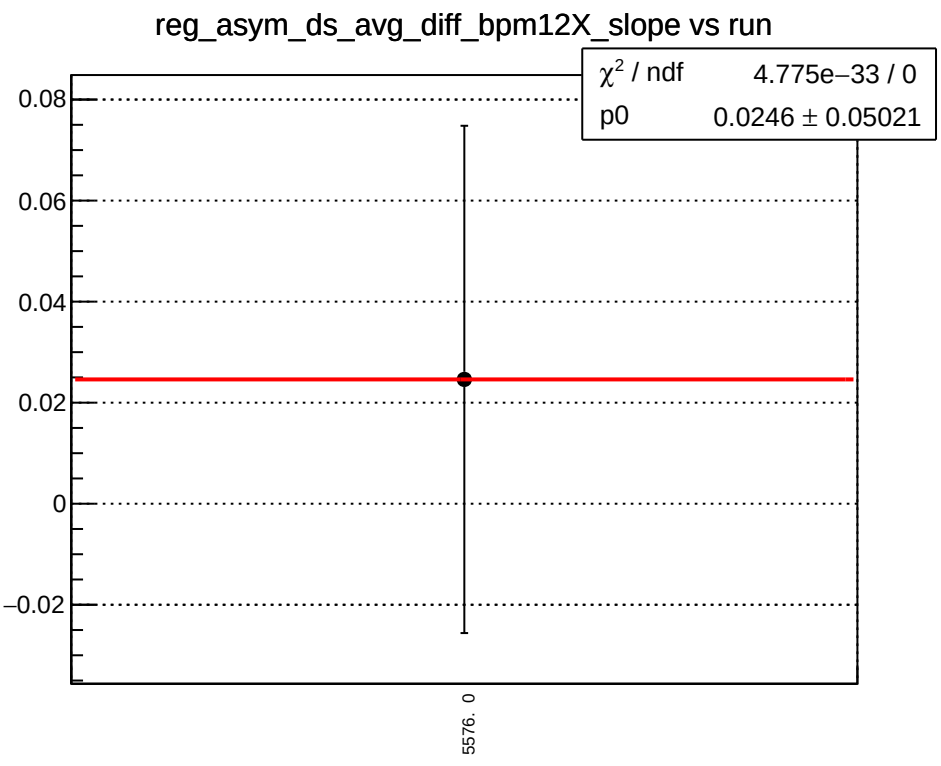

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

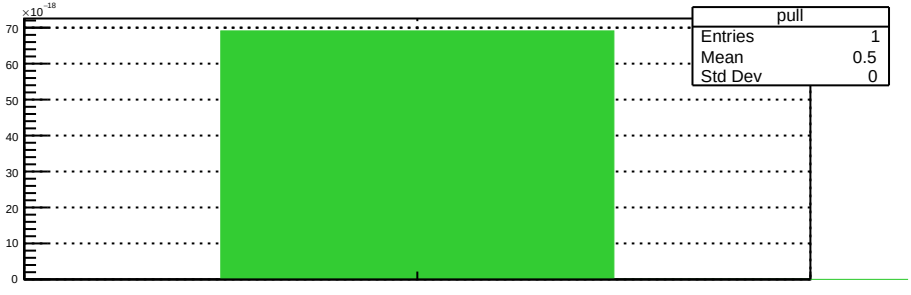

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

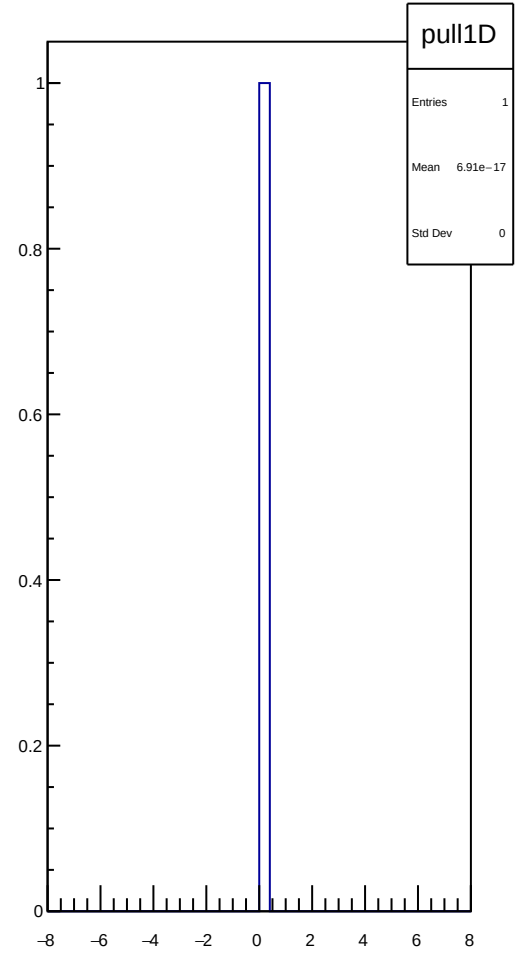

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −1.545 ± 0.8166
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

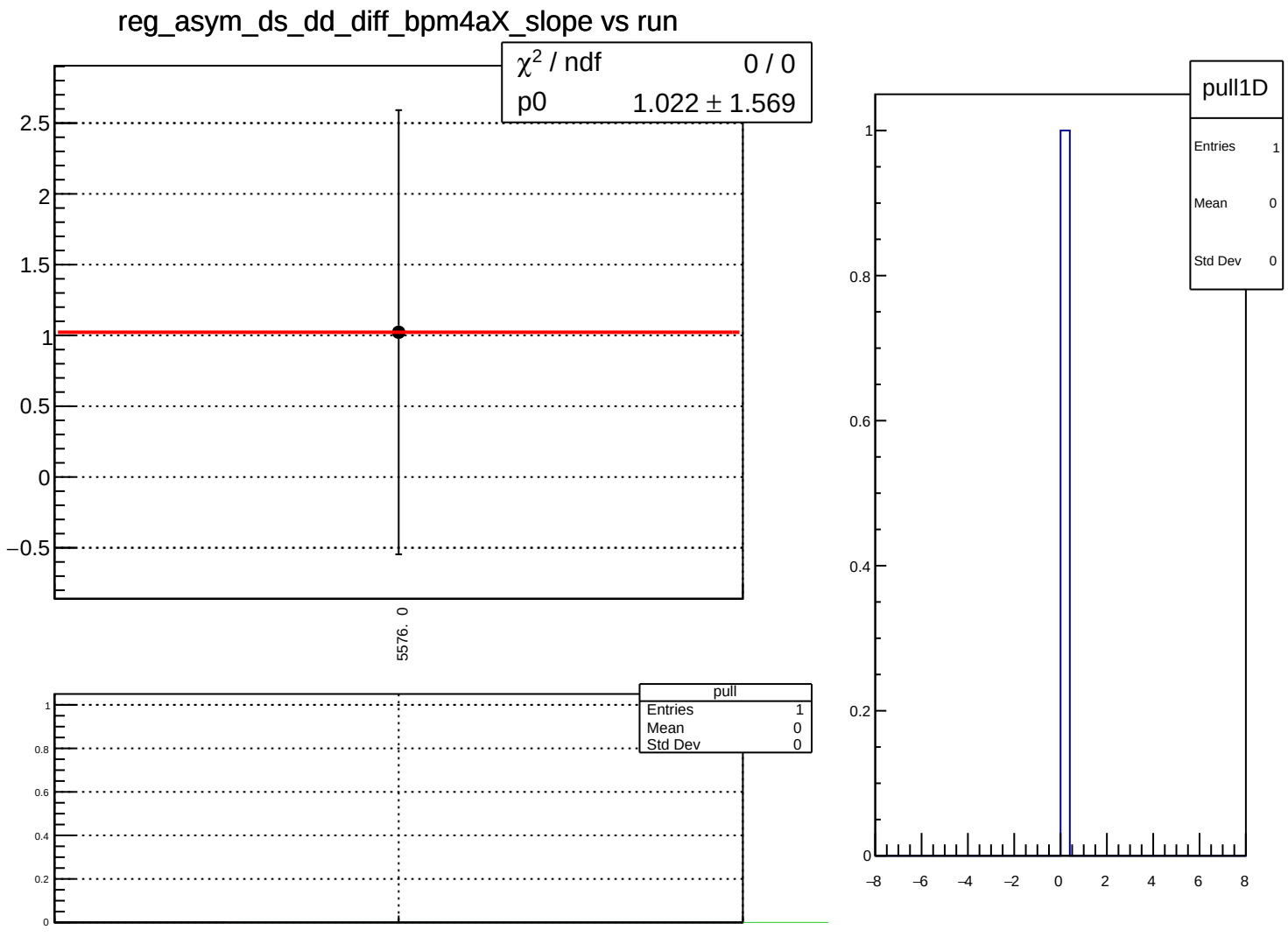

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.621e−33 / 0
p0 0.925 ± 1.481
2.5
2
1.5
1
0.5
0
−0.5
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
−70
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −7.497e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

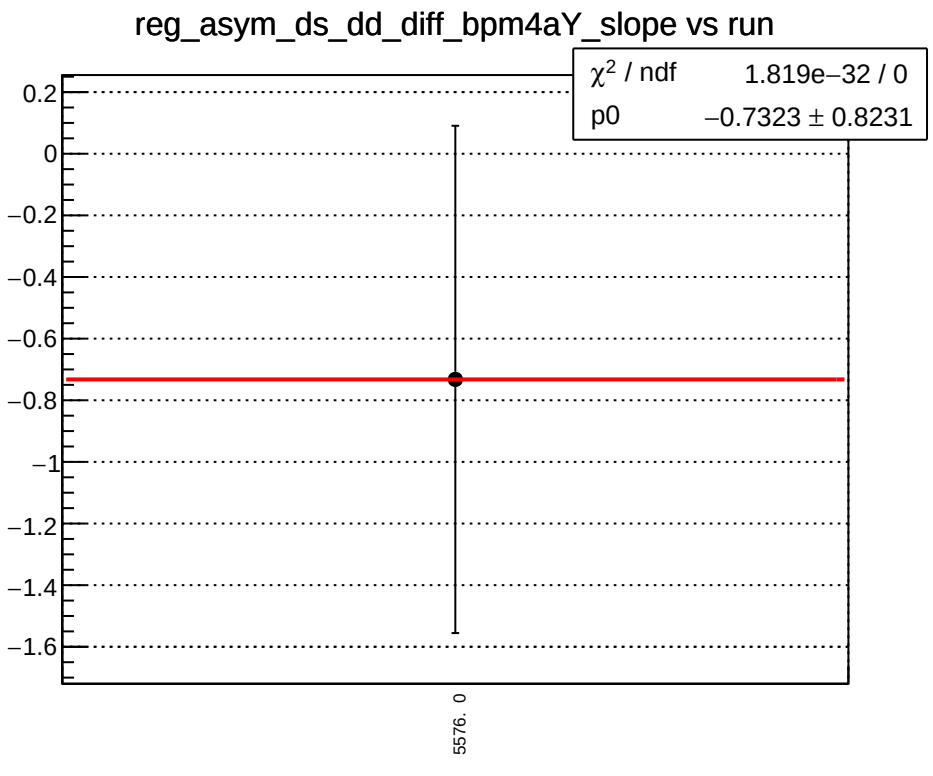

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 2.199 ± 1.088
3.5
3
2.5
2
1.5
1
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

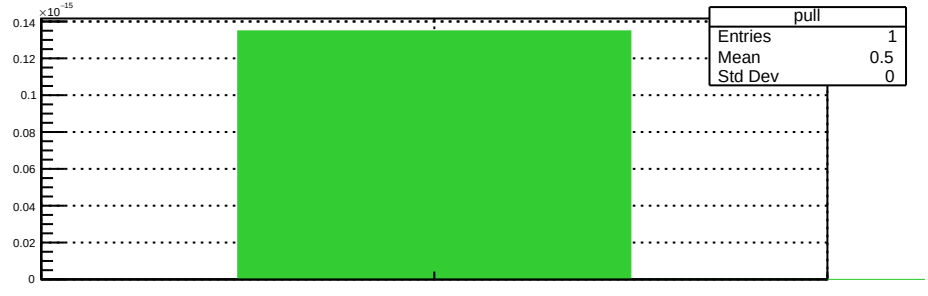

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 4.775e−33 / 0
p0 0.0246 ± 0.05021
0.08
0.06
0.04
0.02
0
−0.02
5576. 0

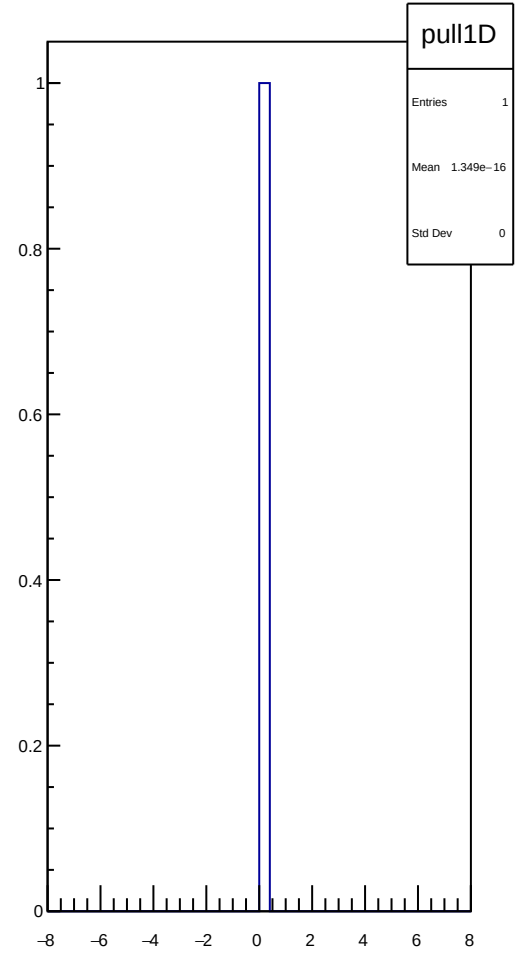

×10⁻¹⁸
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

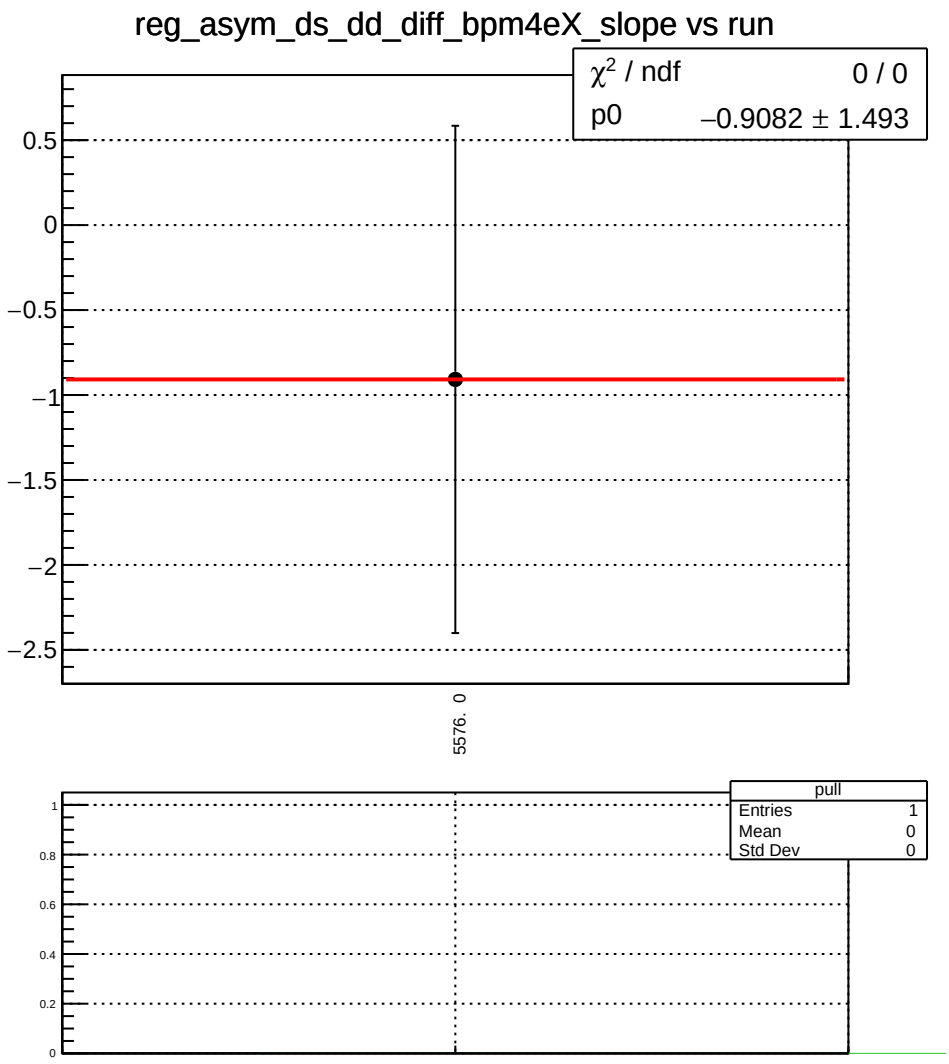

pull1D
Entries 1
Mean 6.91e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

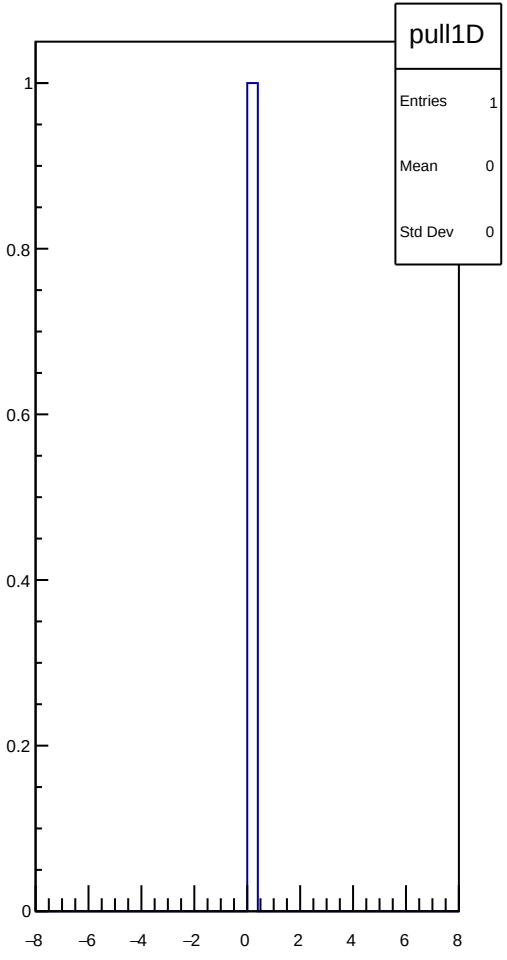

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 1.022 ± 1.569
2.5
2
1.5
1
0.5
0
−0.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

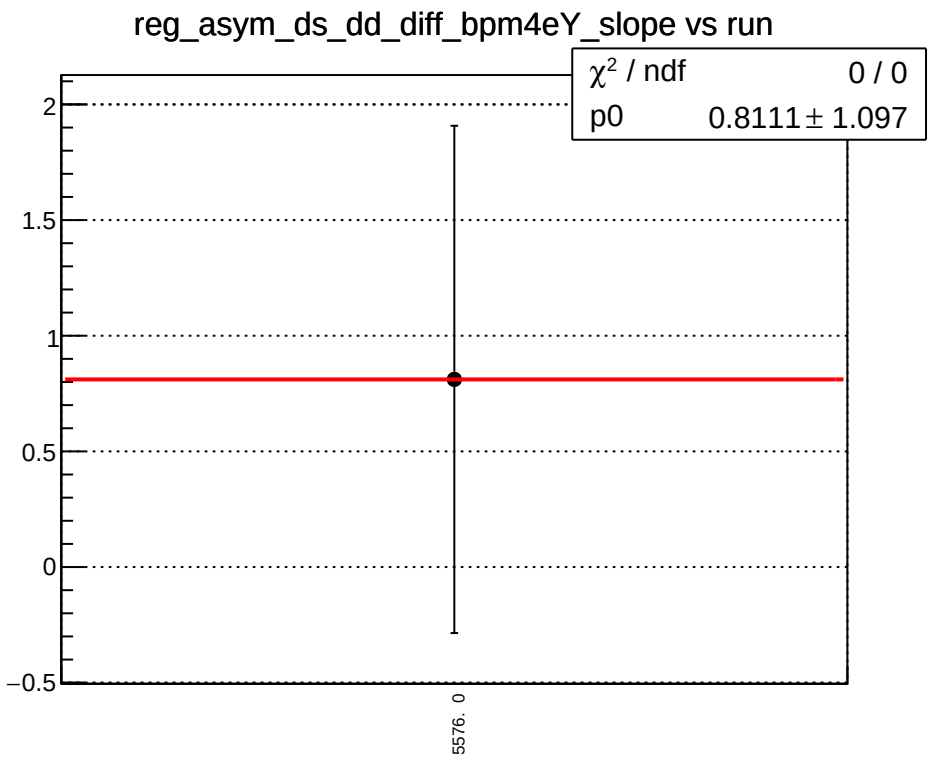

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.819e−32 / 0
p0 −0.7323 ± 0.8231
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
5576. 0

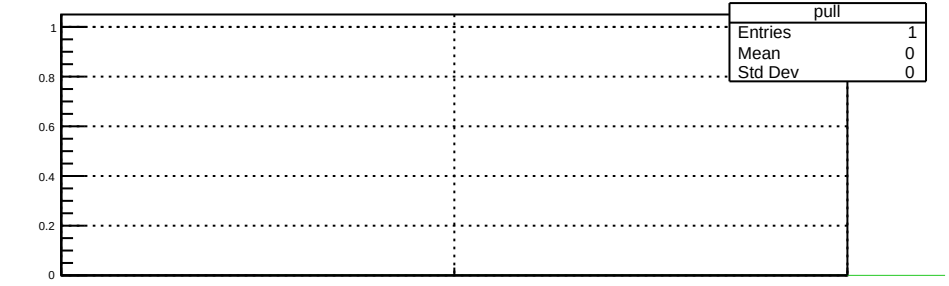

×10⁻¹⁵
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

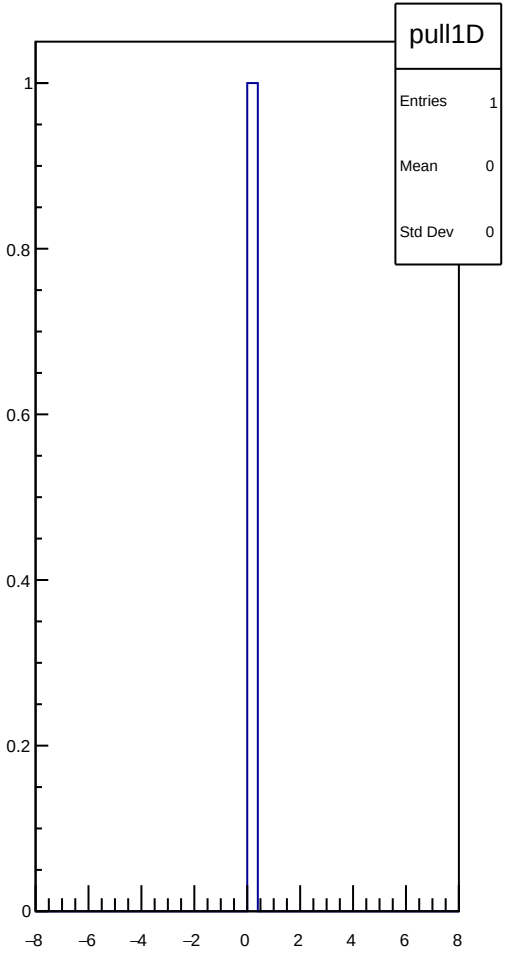

pull1D
Entries 1
Mean 1.349e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

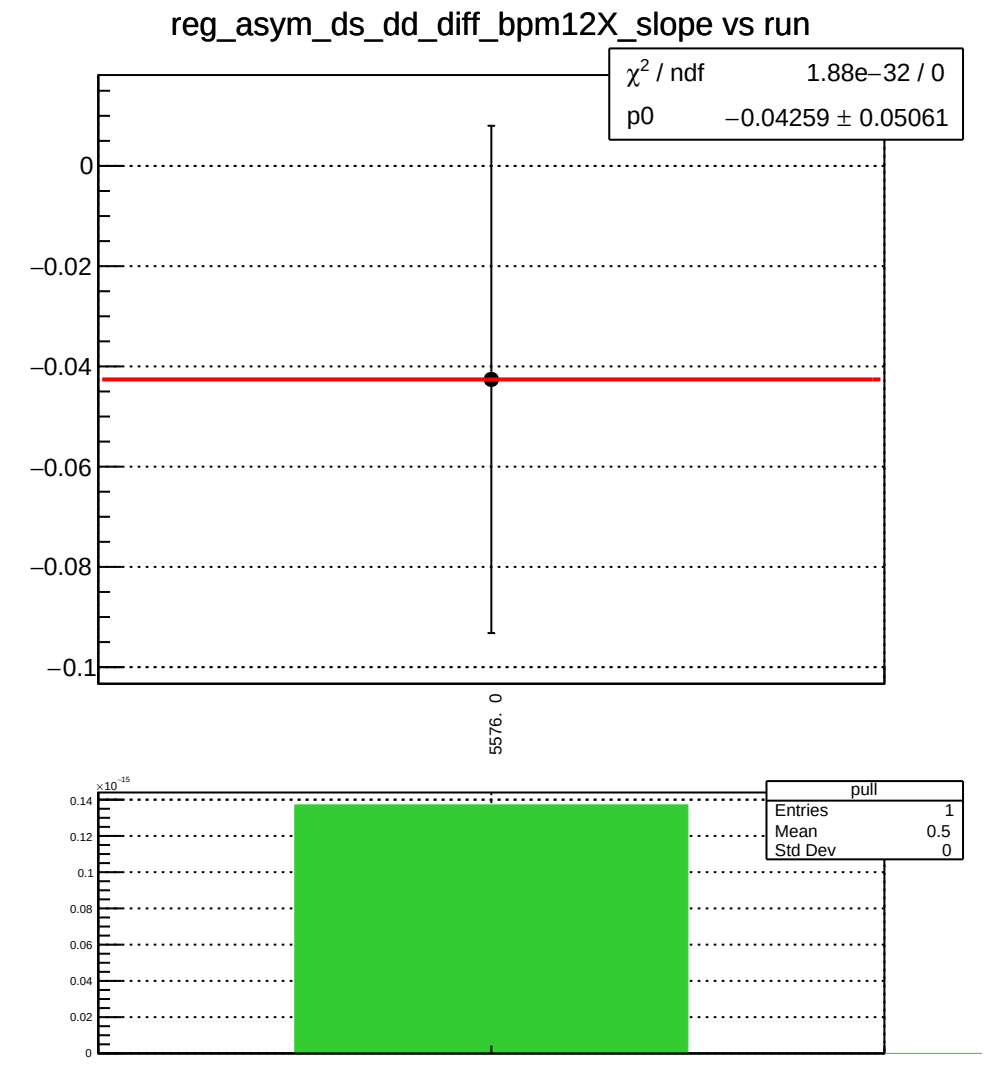

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −0.9082 ± 1.493
0.5
0
−0.5
−1
−1.5
−2
−2.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

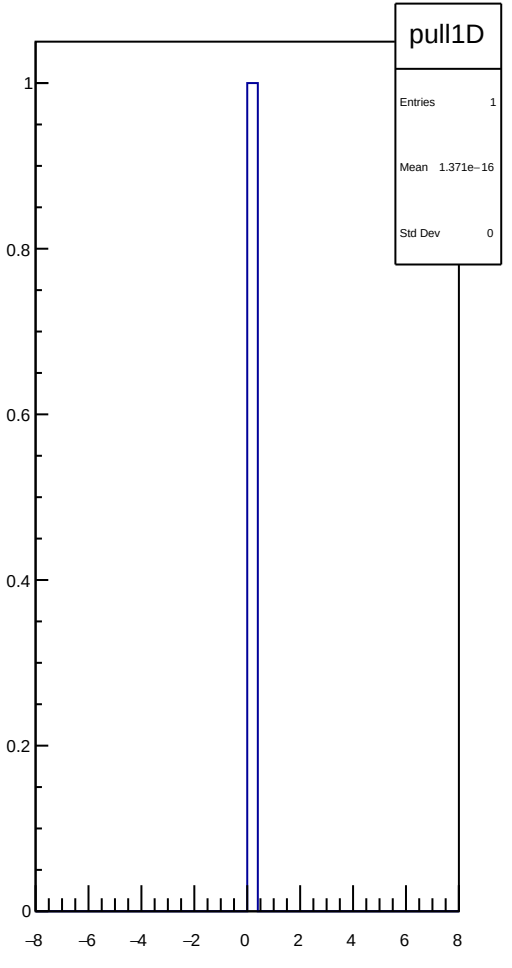

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

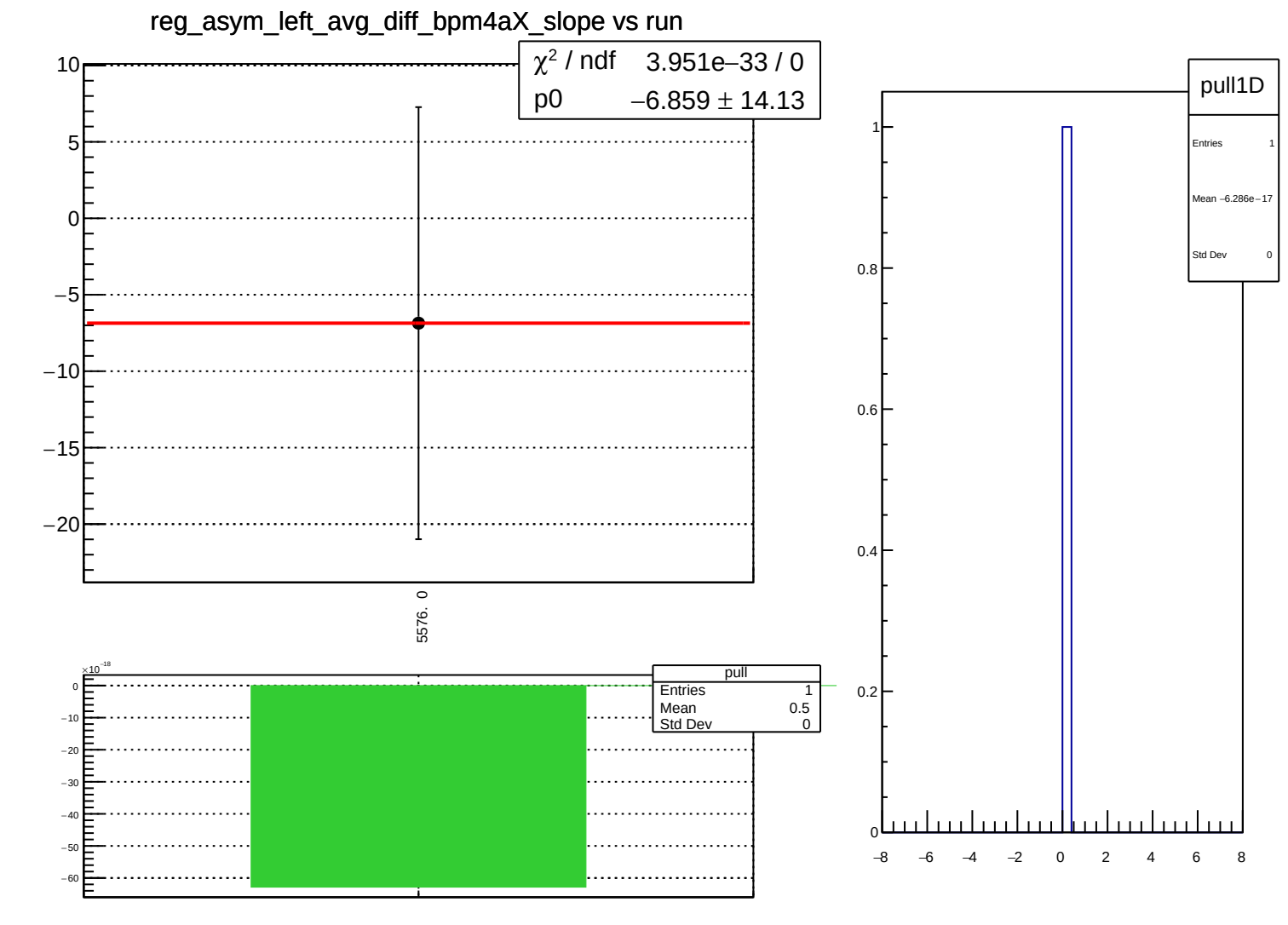

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 0.8111 ± 1.097
2
1.5
1
0.5
0
−0.5
5576. 0

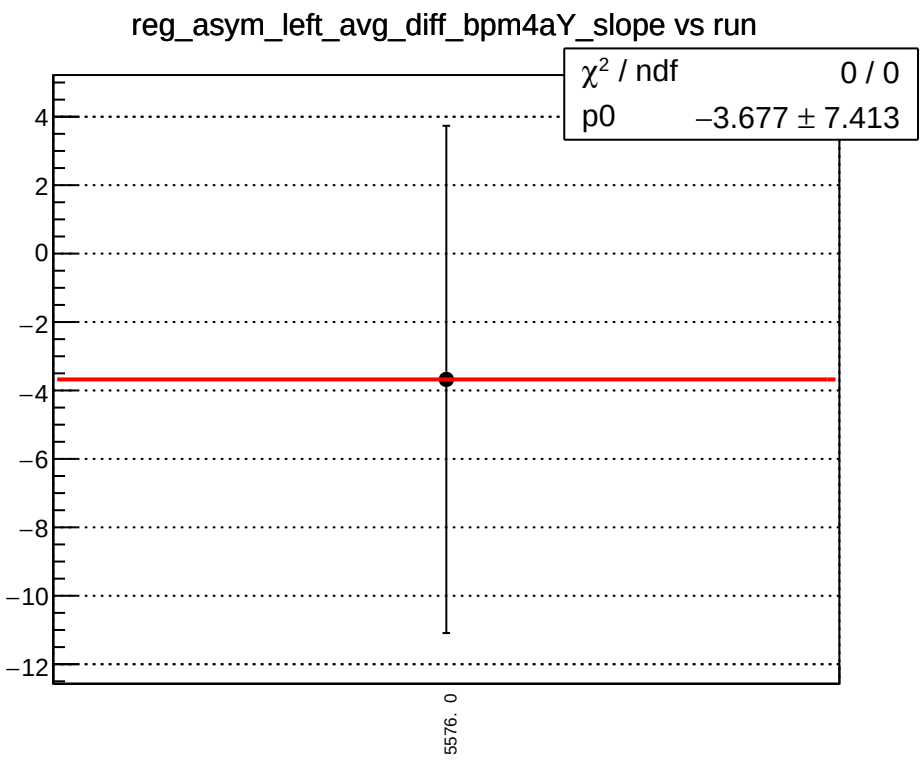

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

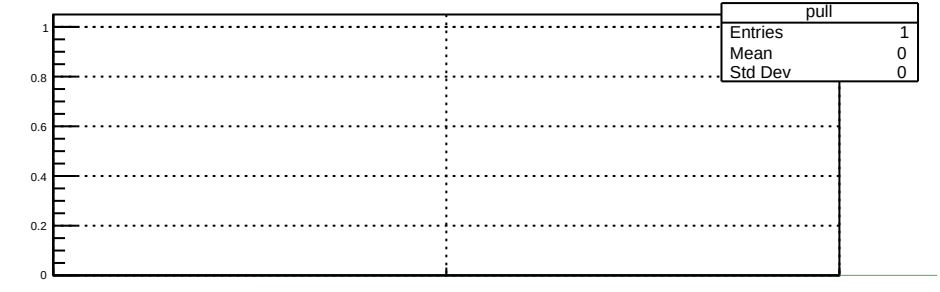

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

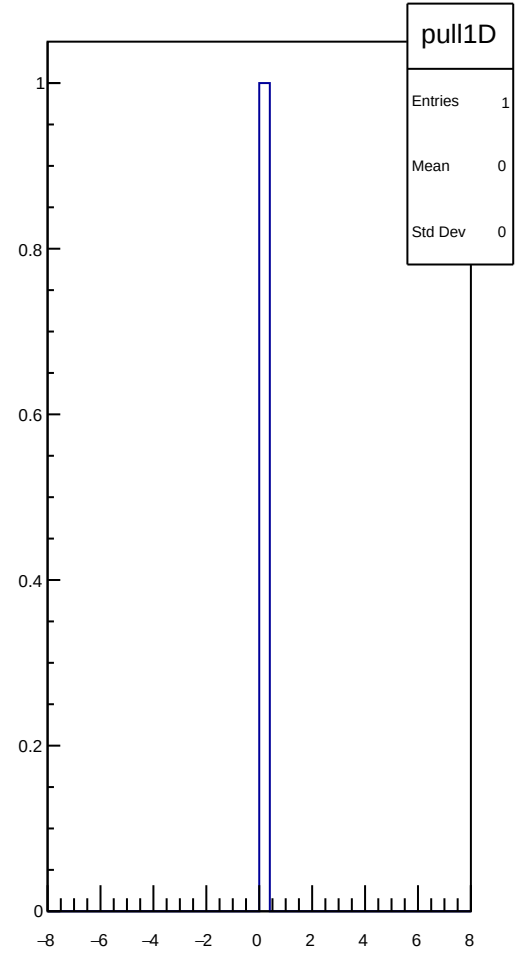

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 1.88e−32 / 0
p0 −0.04259 ± 0.05061
0
−0.02
−0.04
−0.06
−0.08
−0.1
5576. 0
×10⁻¹⁵
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

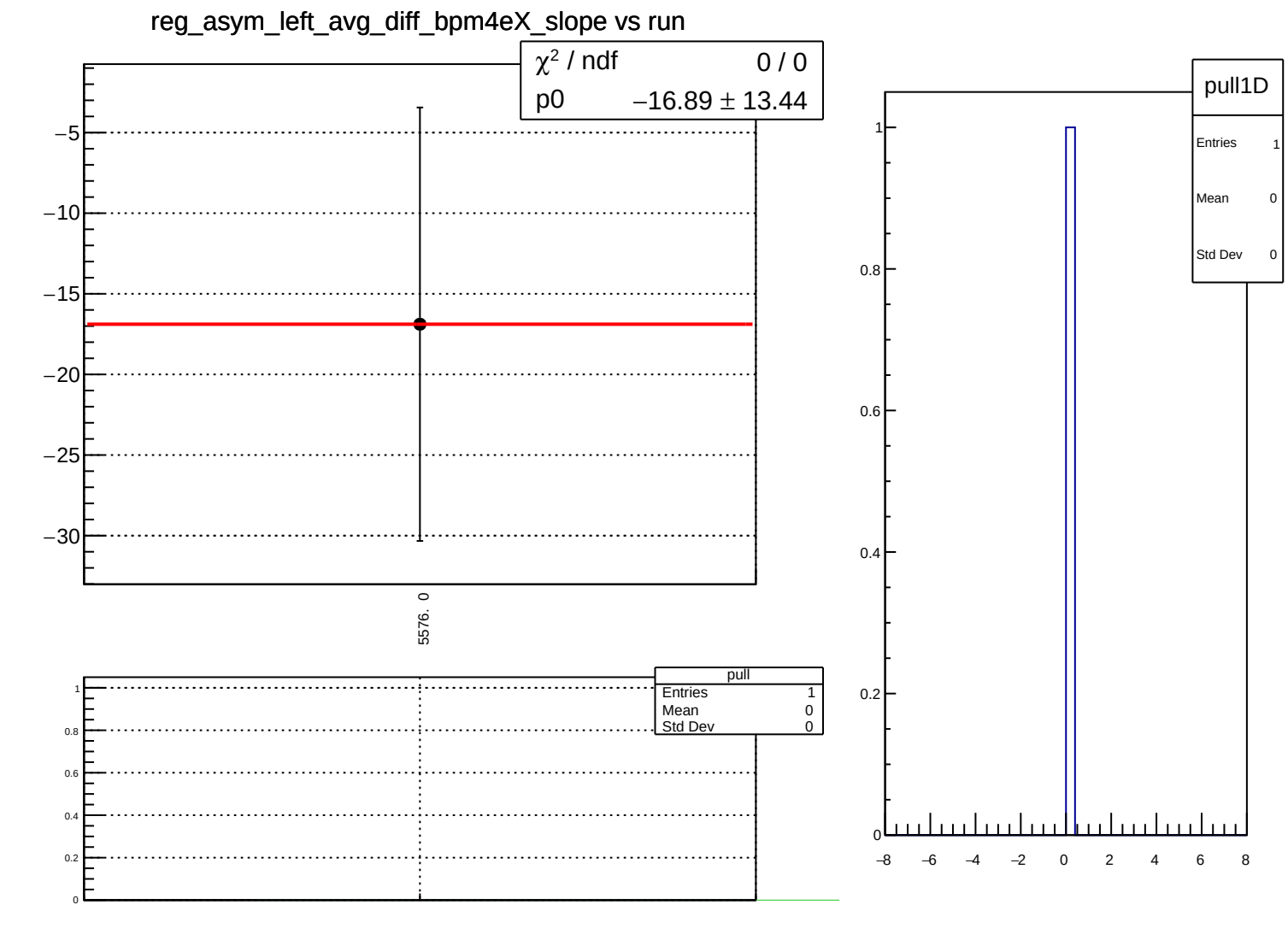

pull1D
Entries 1
Mean 1.371e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

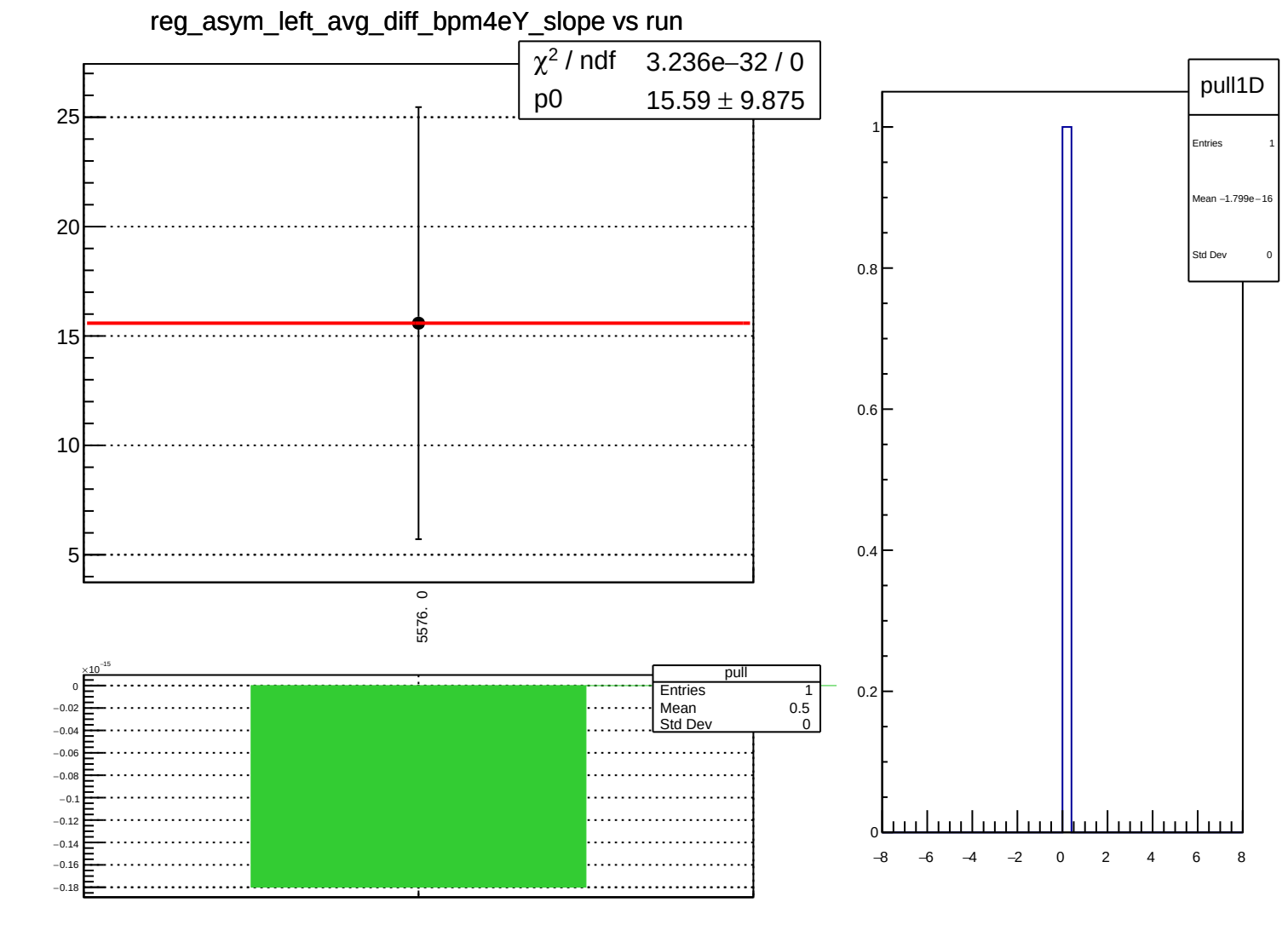

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.951e−33 / 0
p0 −6.859 ± 14.13
10
5
0
−5
−10
−15
−20
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
−60
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.286e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

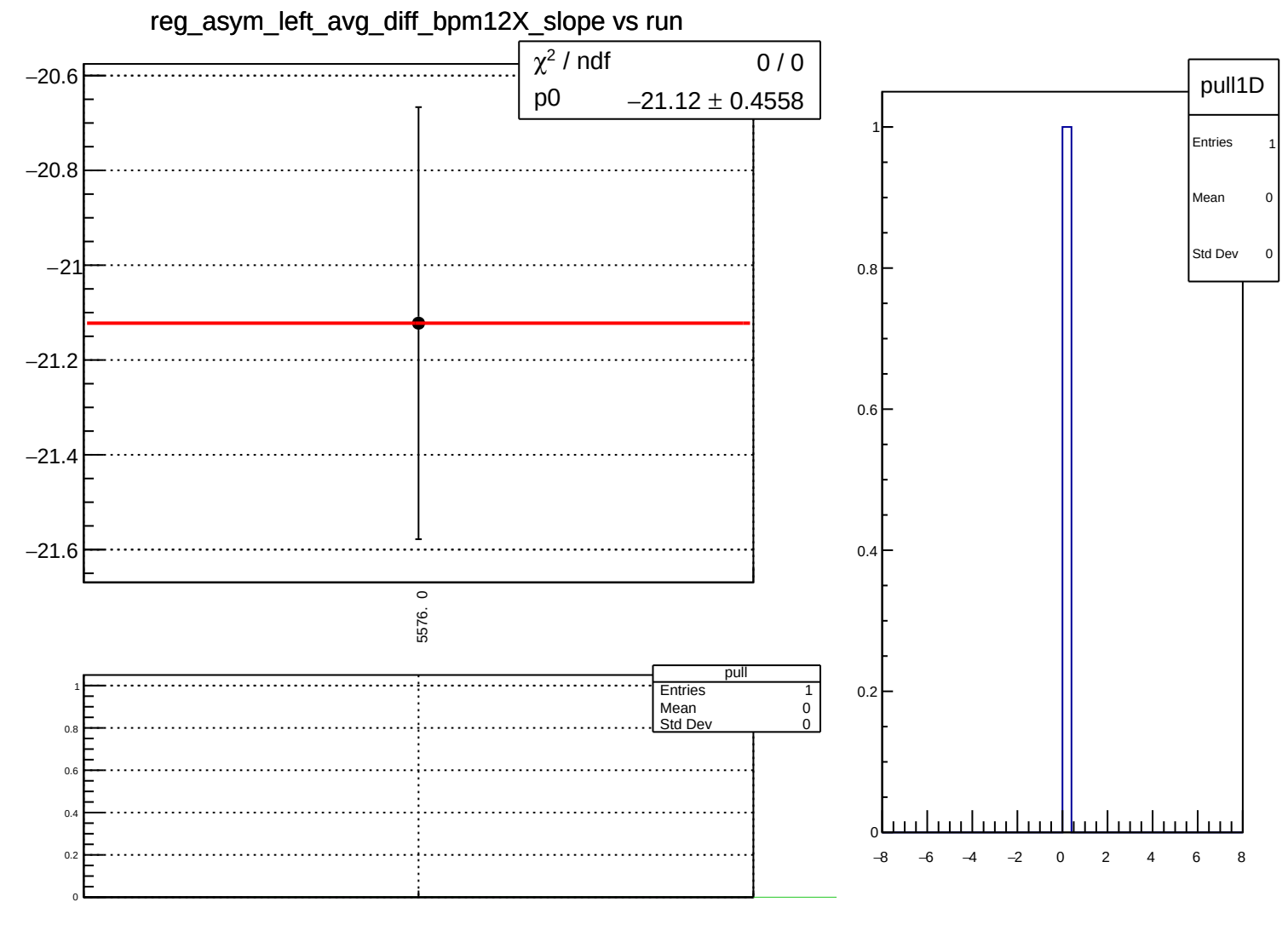

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −3.677 ± 7.413
4
2
0
−2
−4
−6
−8
−10
−12
5576. 0

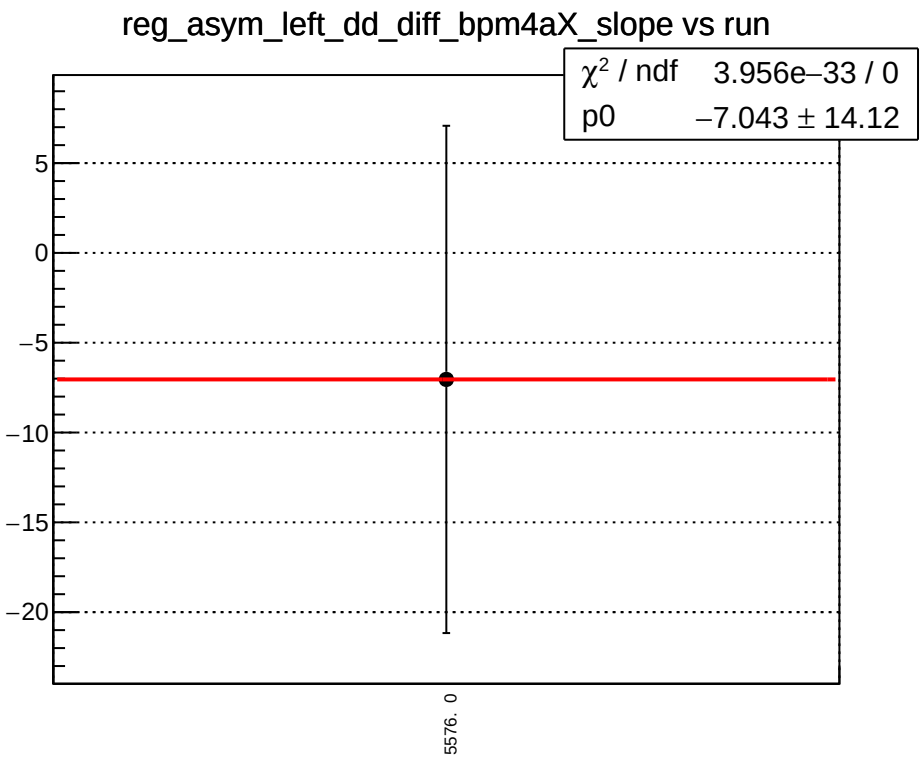

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

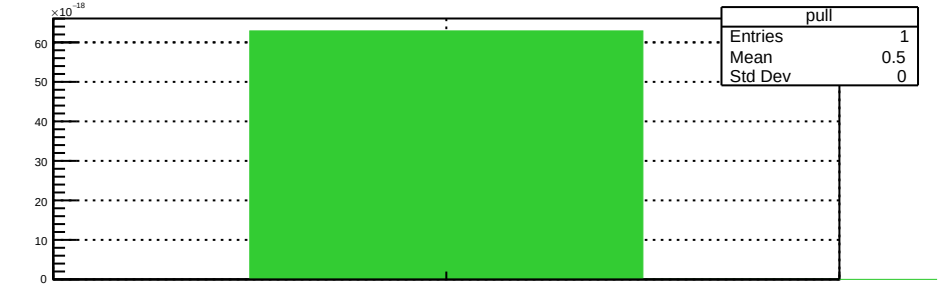

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

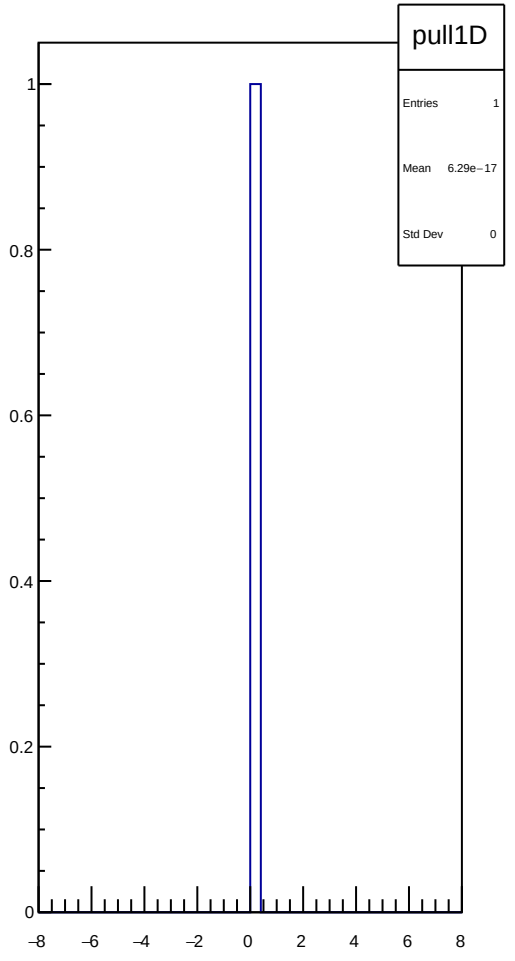

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −16.89 ± 13.44
−5
−10
−15
−20
−25
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

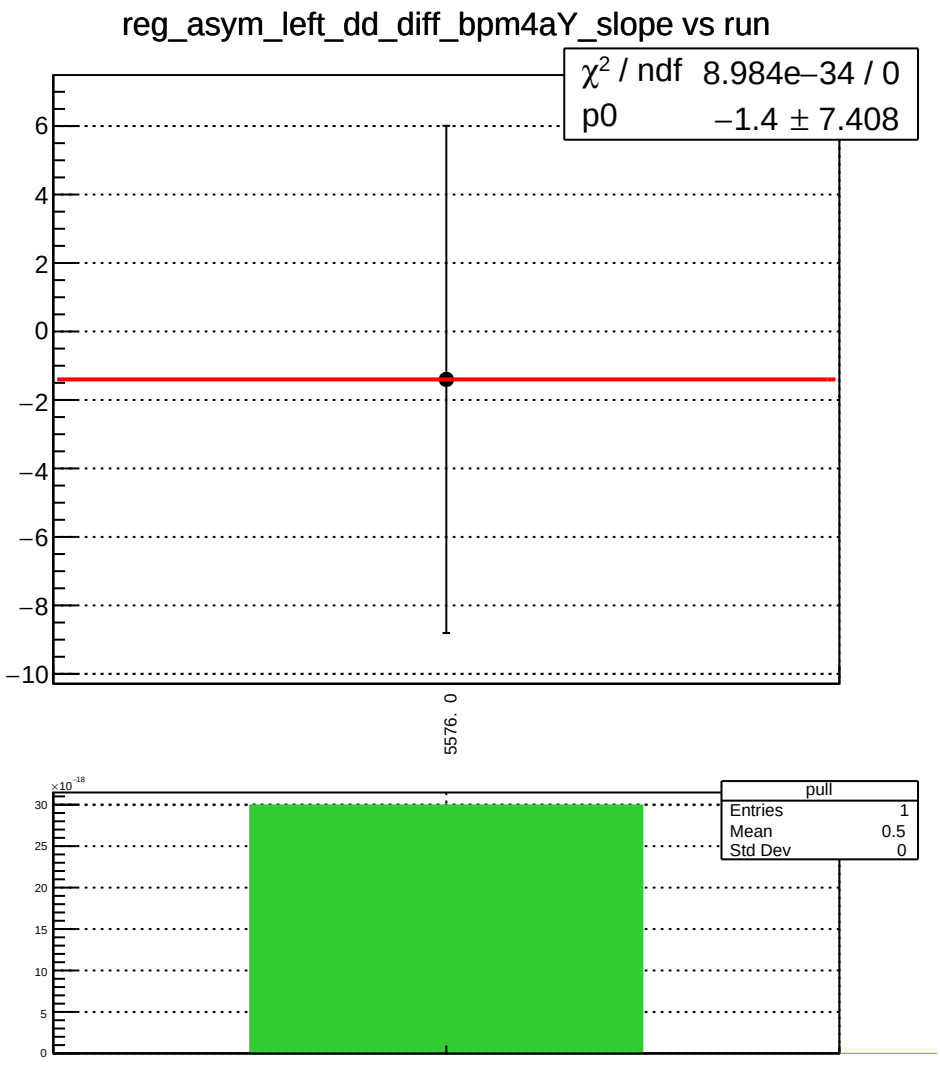

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.236e−32 / 0
p0 15.59 ± 9.875
25
20
15
10
5
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.799e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

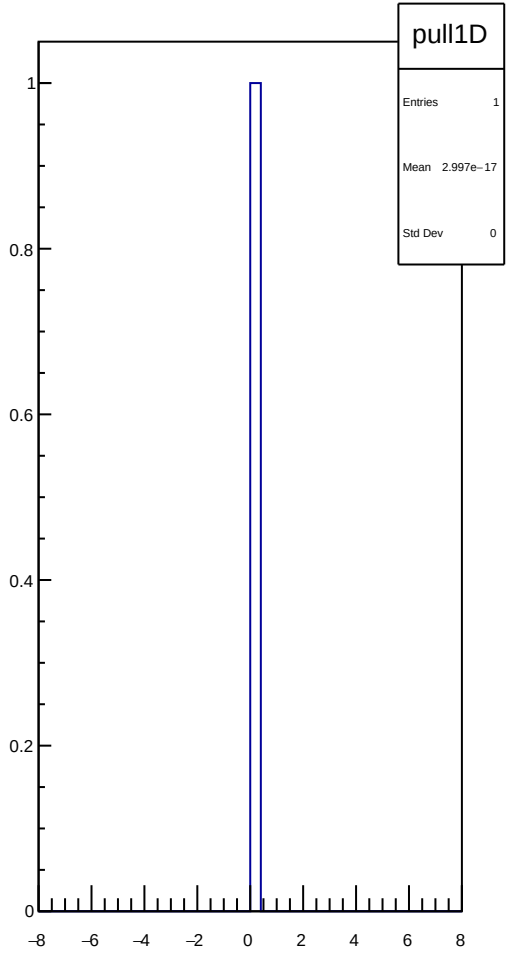

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −21.12 ± 0.4558
−20.6
−20.8
−21
−21.2
−21.4
−21.6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

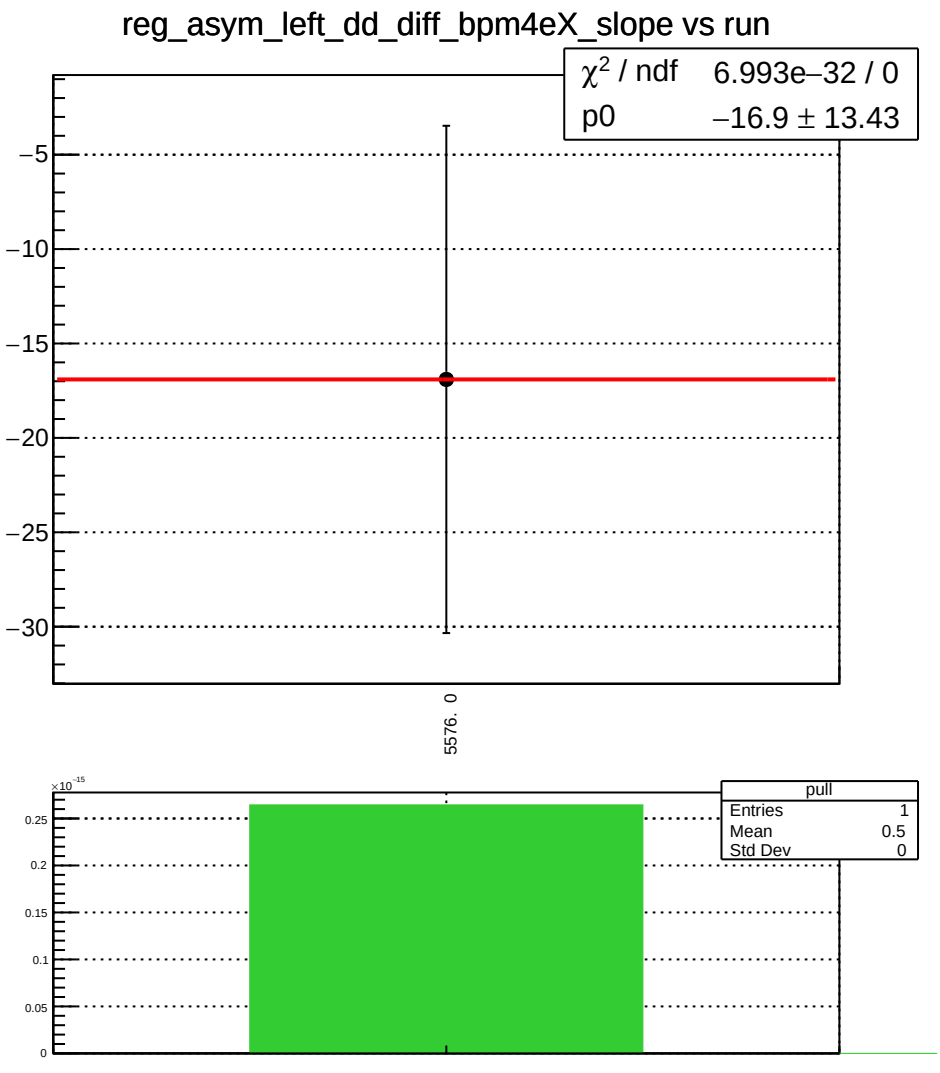

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.956e−33 / 0
p0 −7.043 ± 14.12
5
0
−5
−10
−15
−20
5576. 0

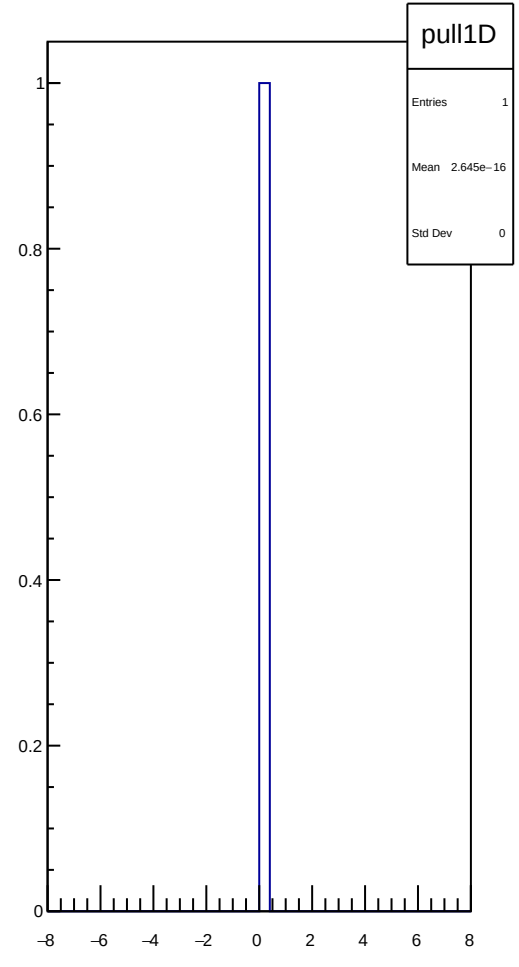

×10⁻¹⁸
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

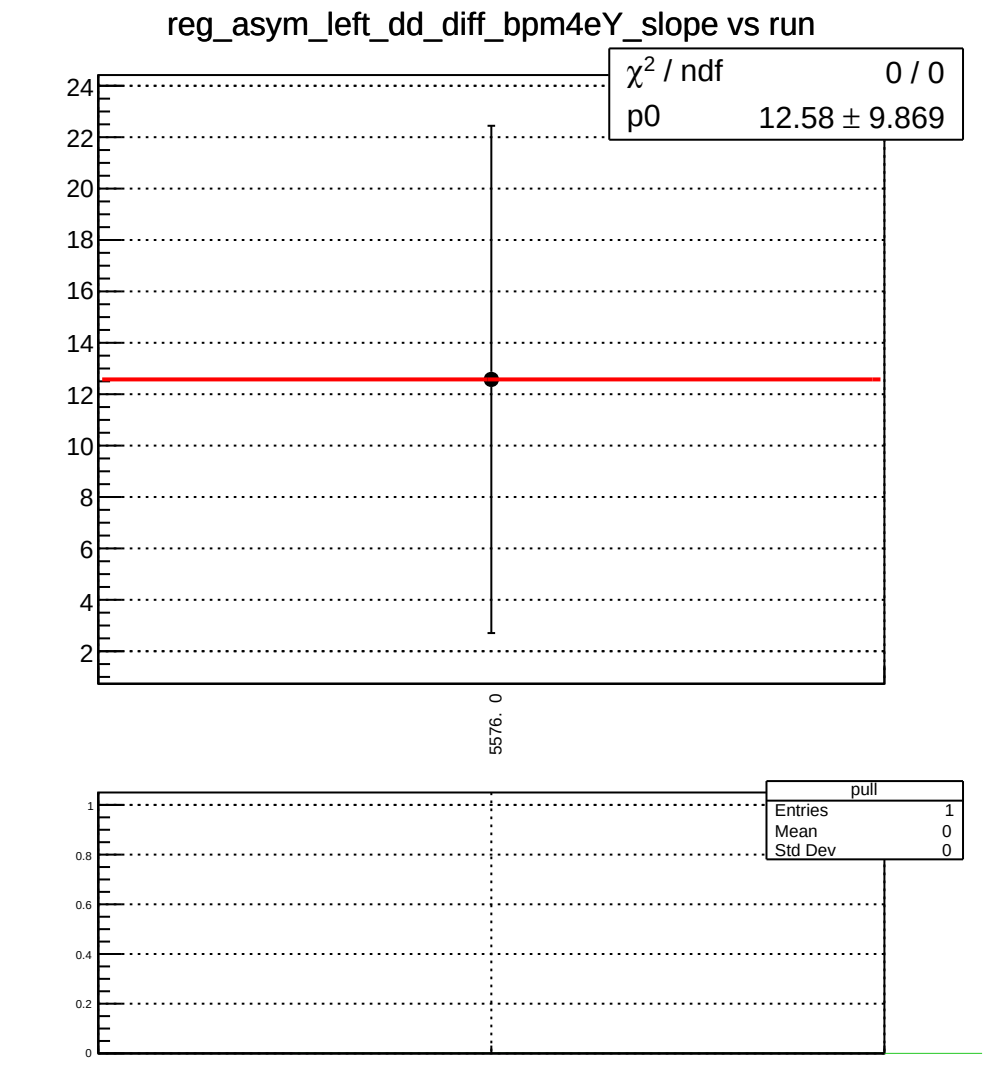

pull1D
Entries 1
Mean 6.29e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

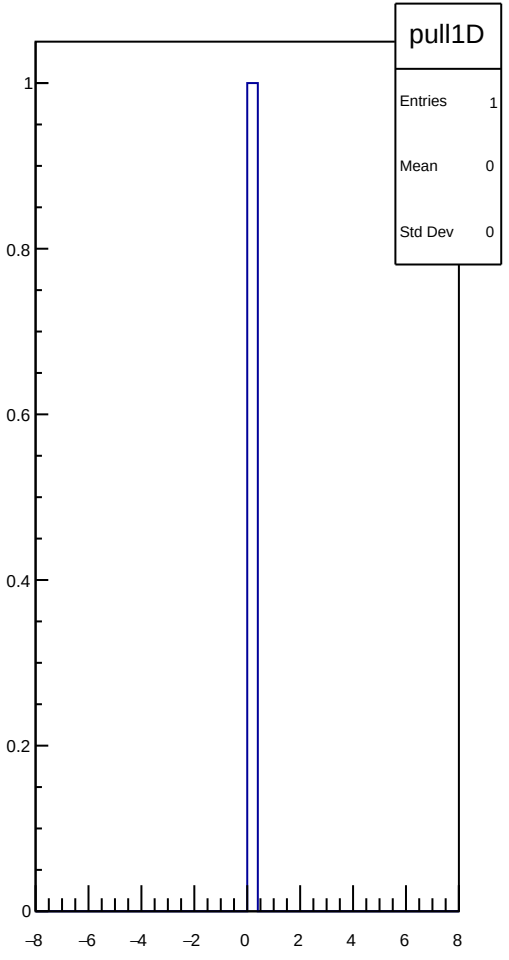

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.984e−34 / 0
p0 −1.4 ± 7.408
6
4
2
0
−2
−4
−6
−8
−10
5576. 0
×10⁻¹⁸
30
25
20
15
10
5
0
pull
Entries 1
Mean 0.5
Std Dev 0

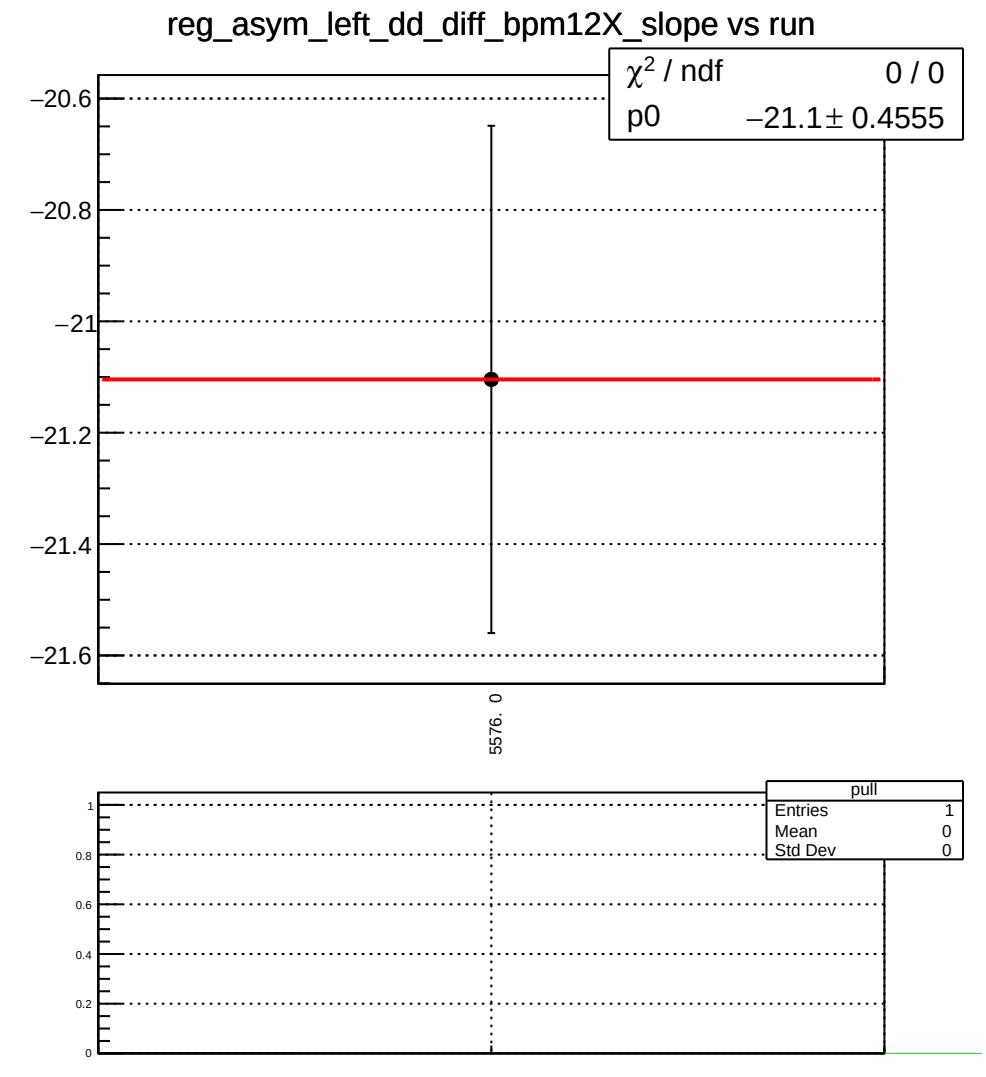

pull1D
Entries 1
Mean 2.997e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

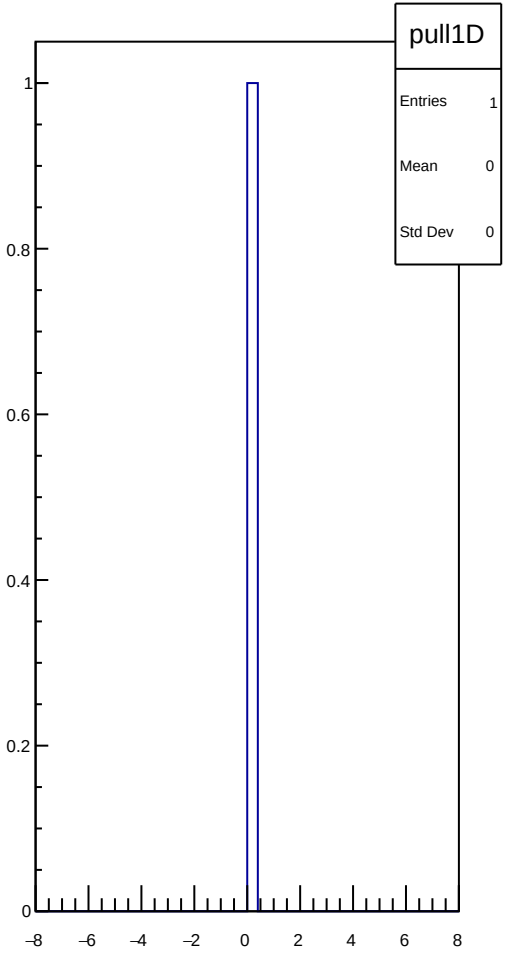

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.993e−32 / 0
p0 −16.9 ± 13.43
−5
−10
−15
−20
−25
−30
5576. 0
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

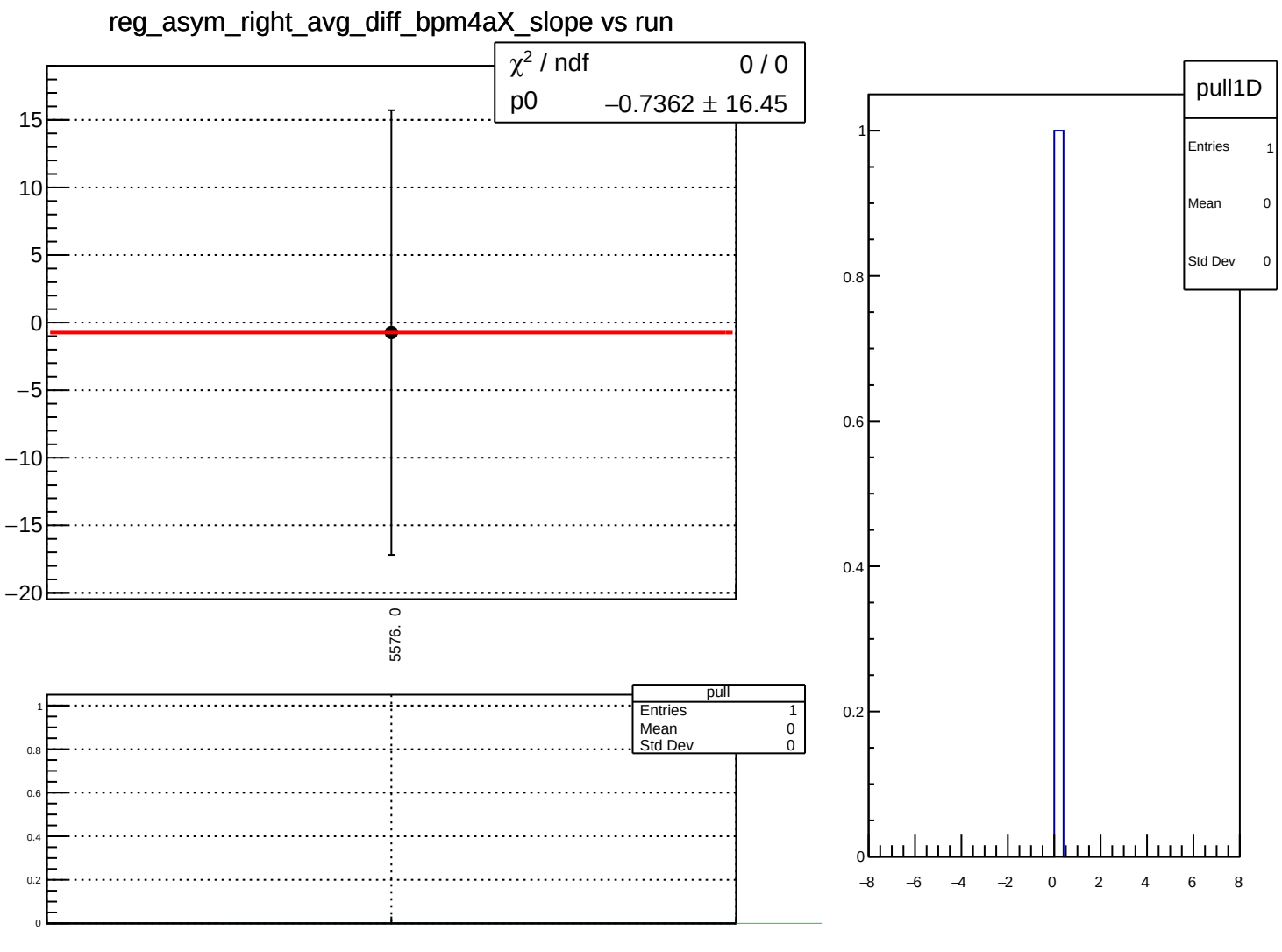

pull1D
Entries 1
Mean 2.645e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

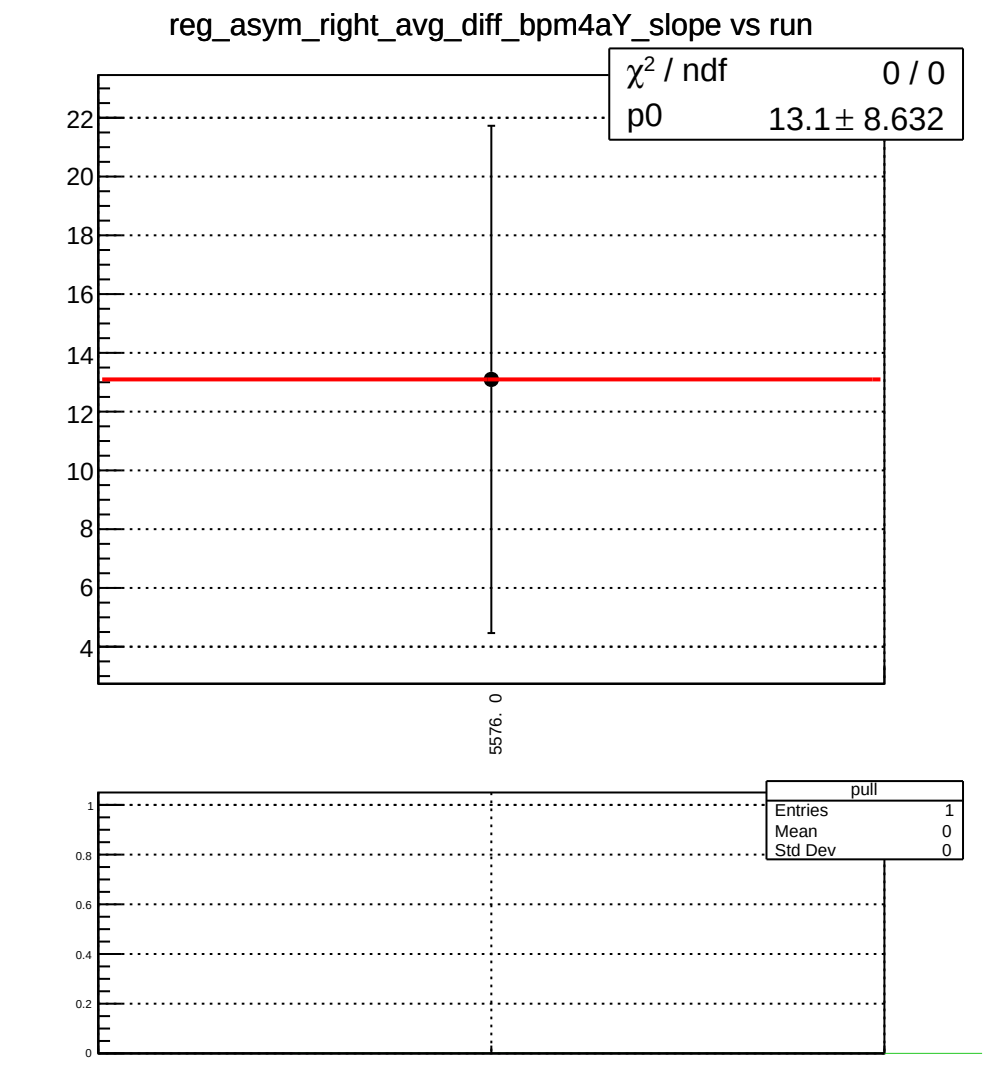

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 12.58 ± 9.869
24
22
20
18
16
14
12
10
8
6
4
2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

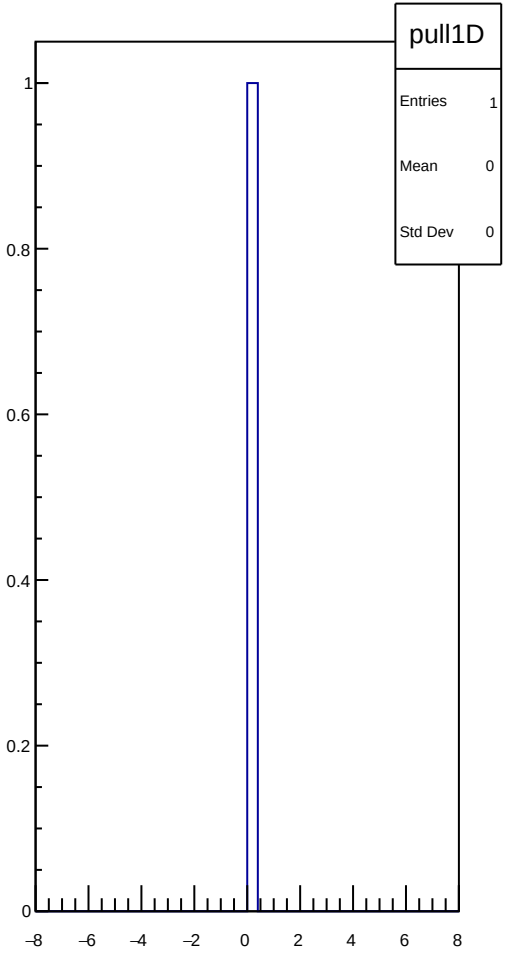

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

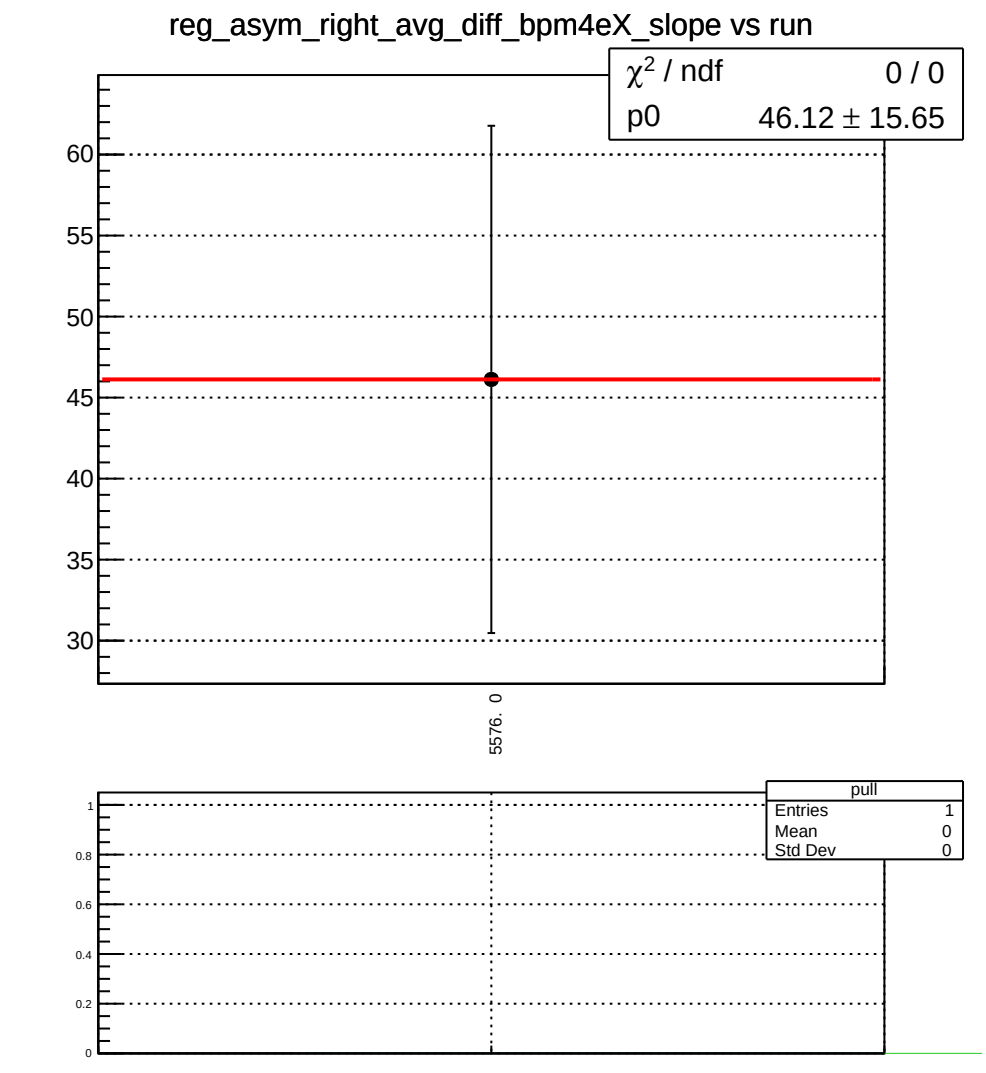

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −21.1 ± 0.4555
−20.6
−20.8
−21
−21.2
−21.4
−21.6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

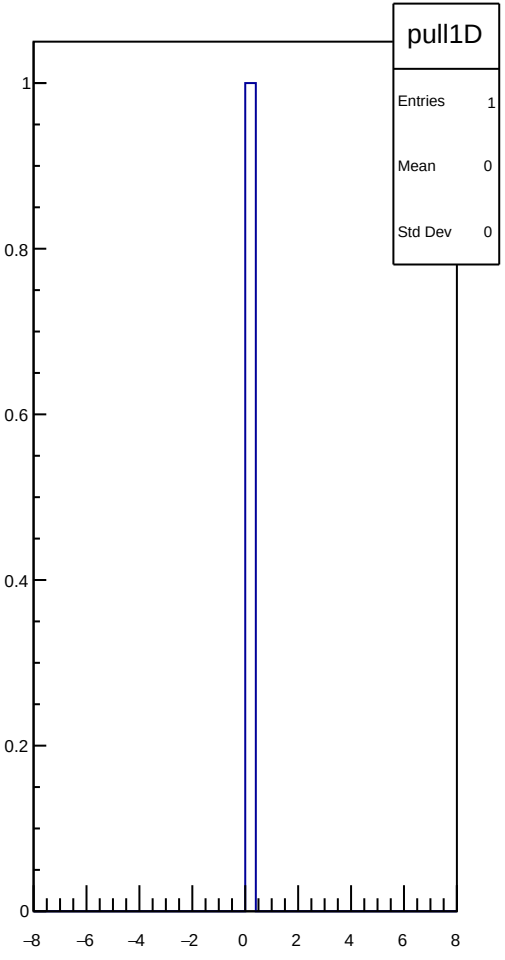

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

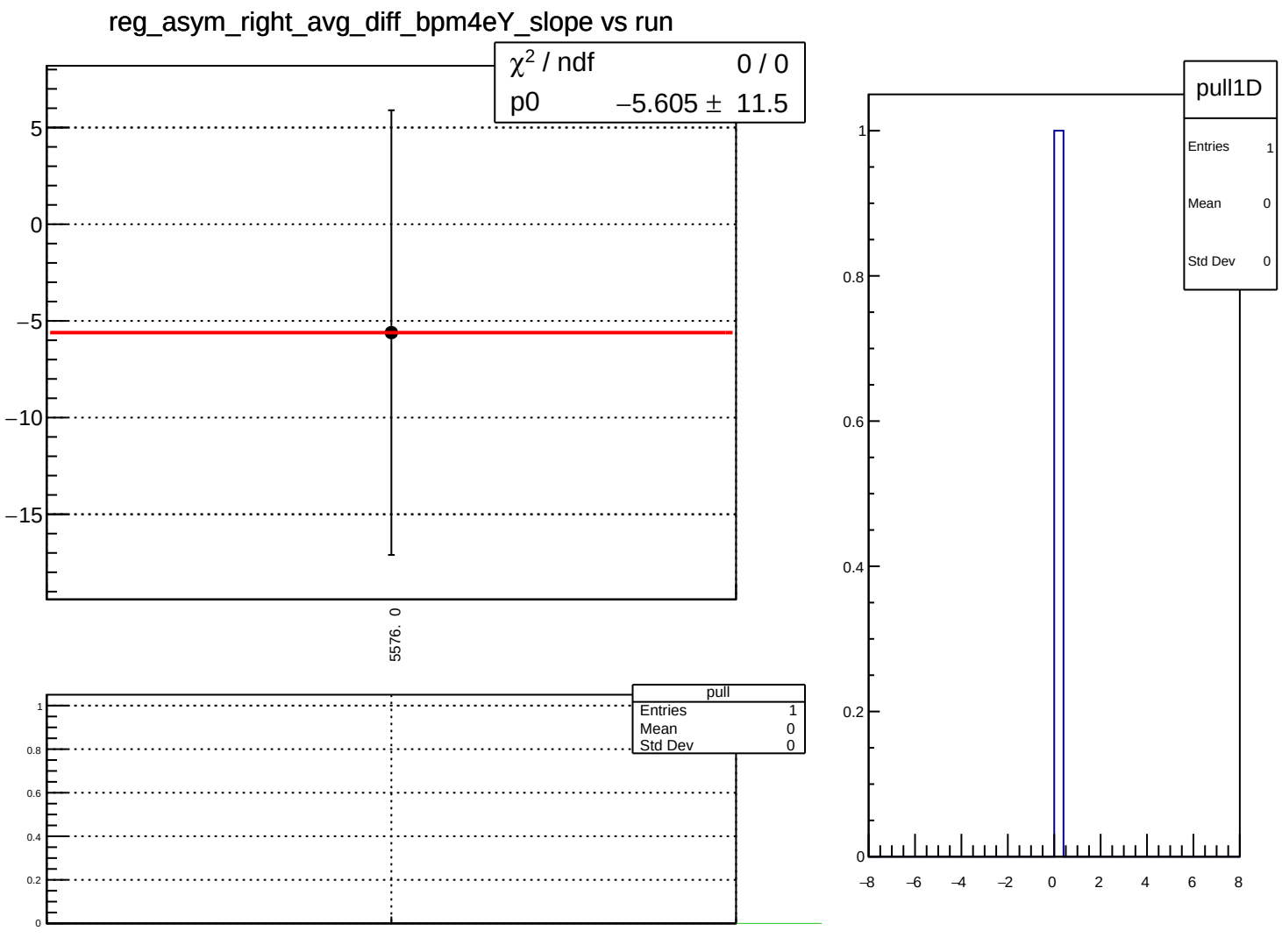

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −0.7362 ± 16.45
15
10
5
0
−5
−10
−15
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

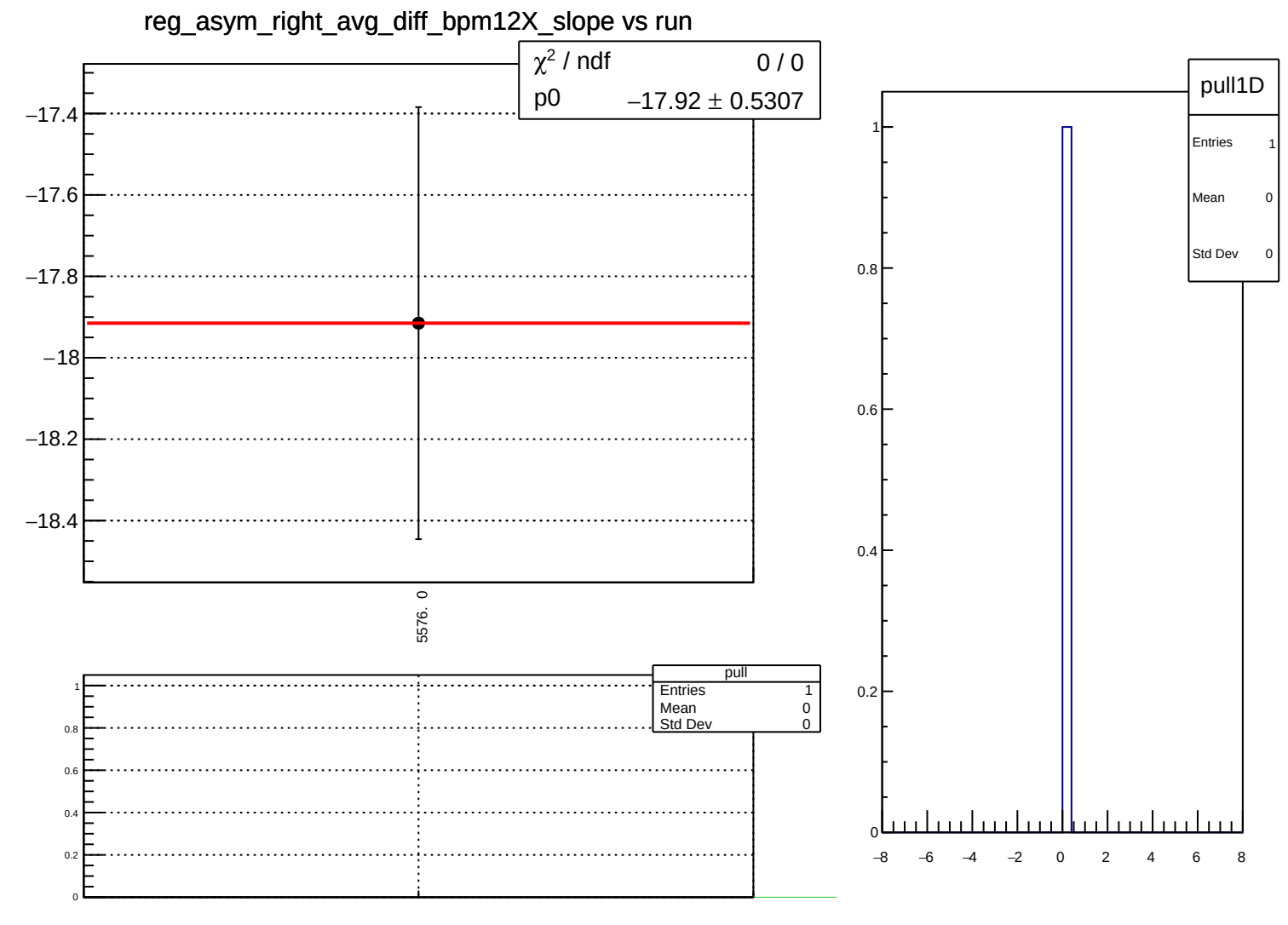

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 13.1 ± 8.632
22
20
18
16
14
12
10
8
6
4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

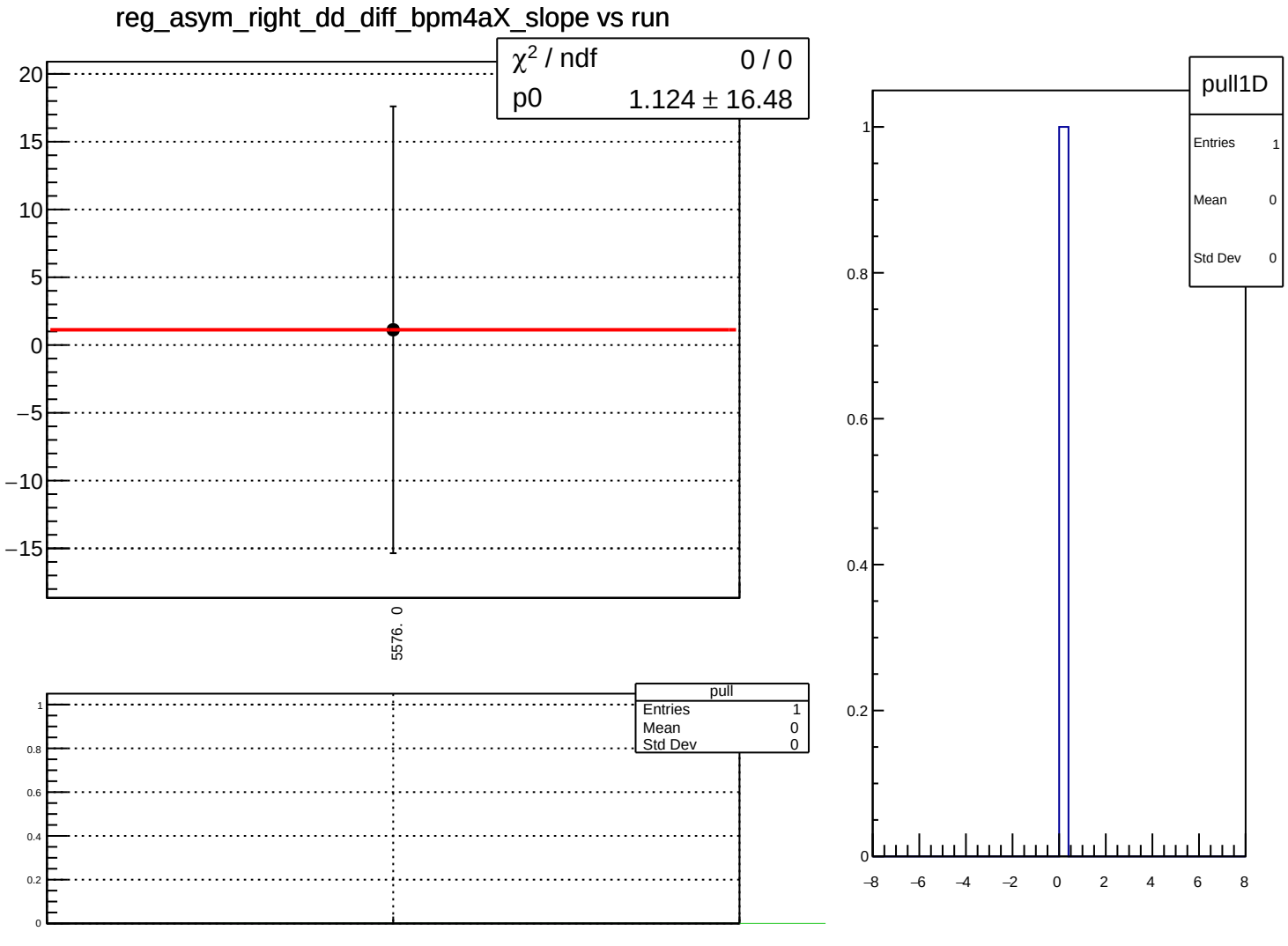

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

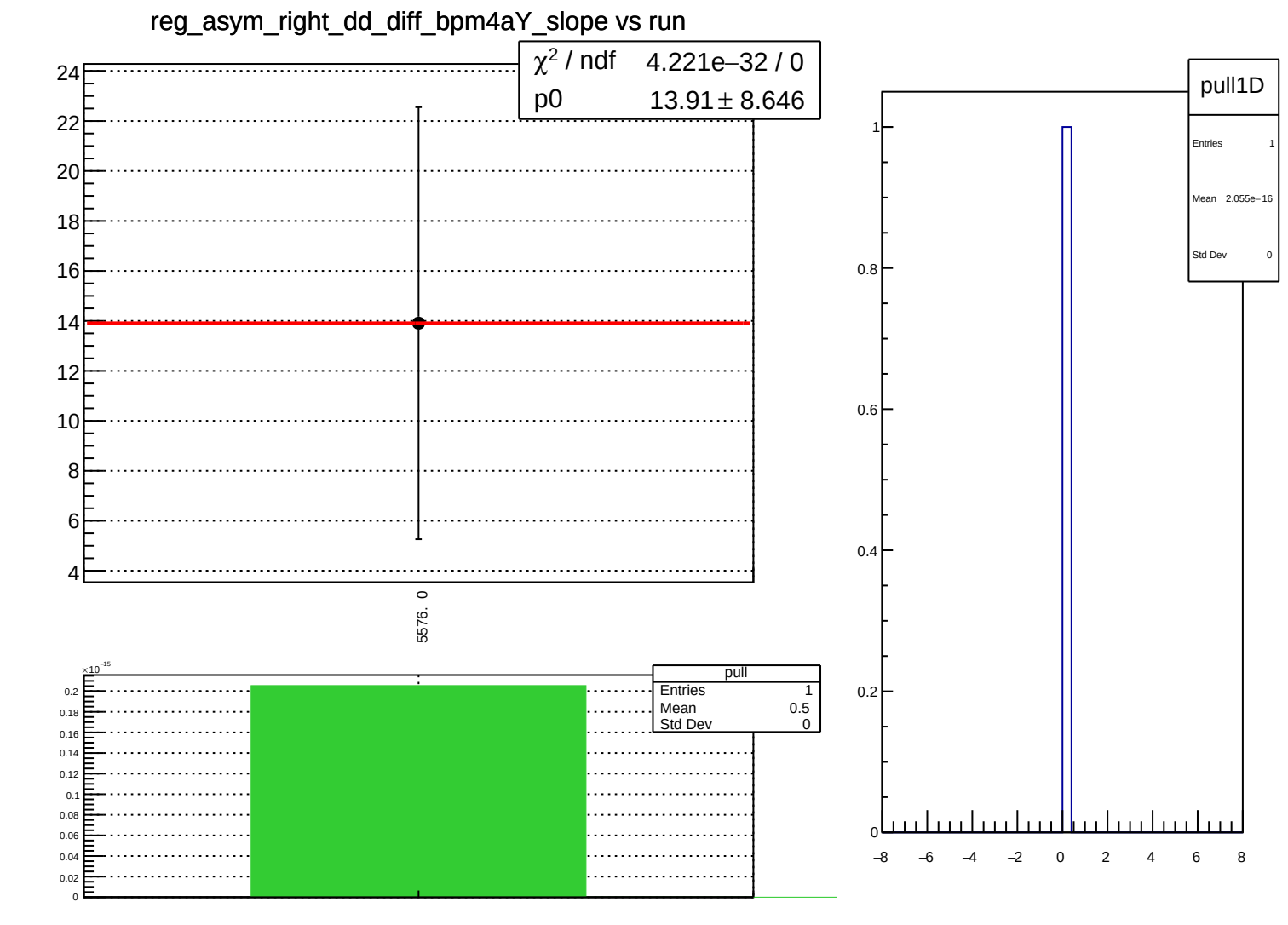

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 46.12 ± 15.65
60
55
50
45
40
35
30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

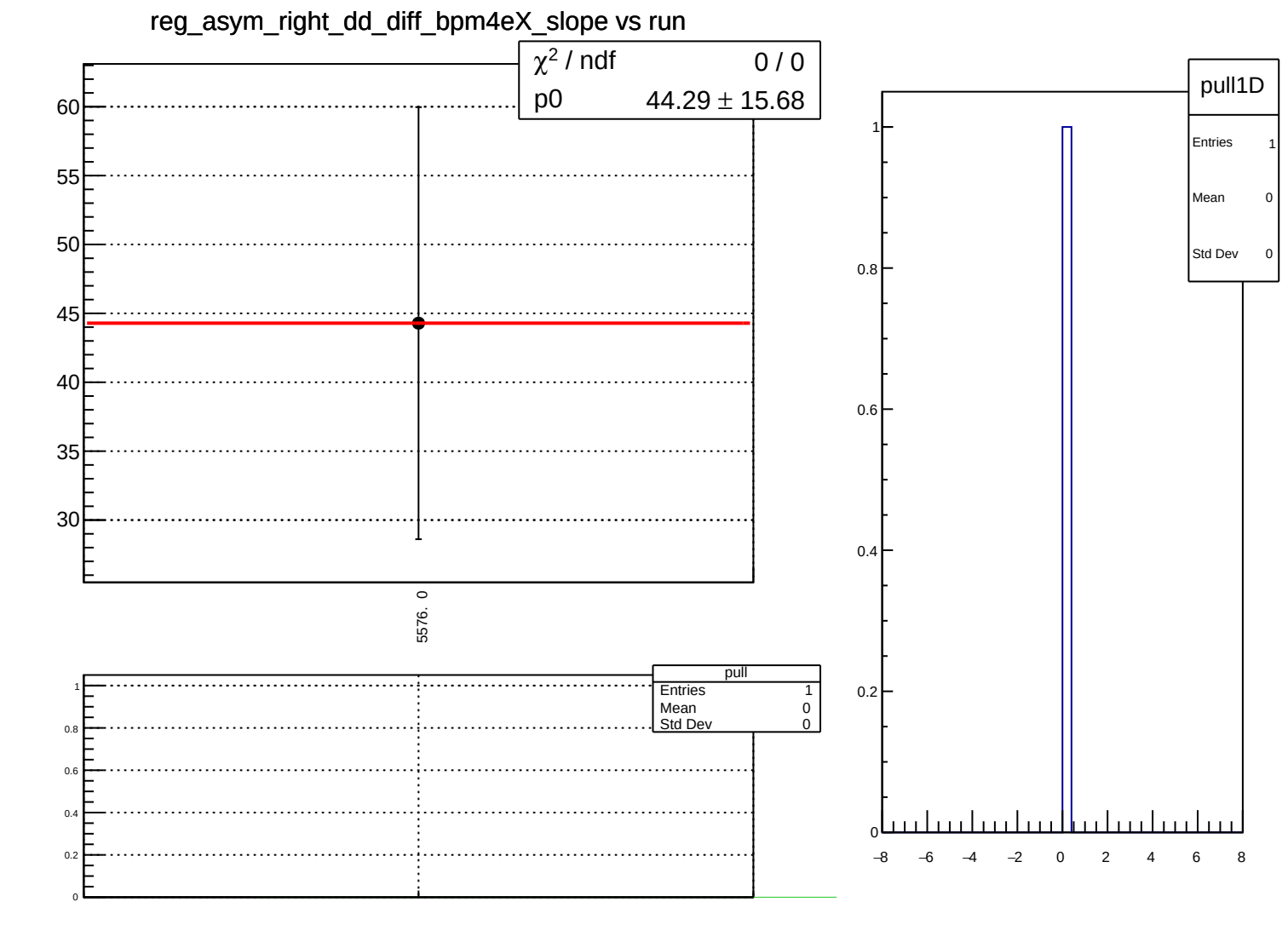

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

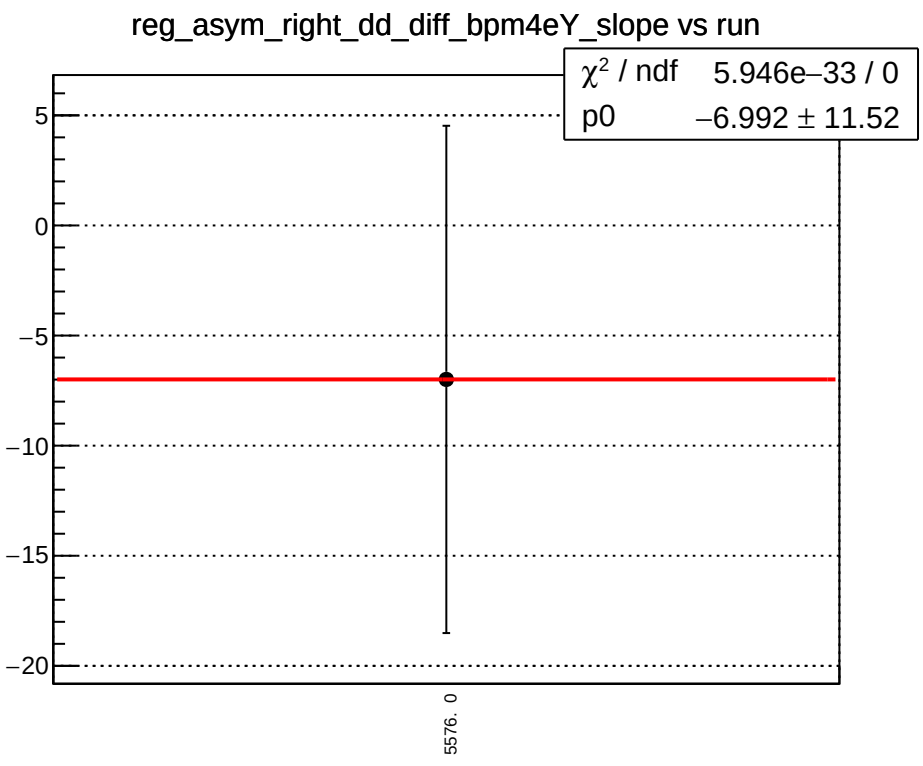

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −5.605 ± 11.5
5
0
−5
−10
−15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

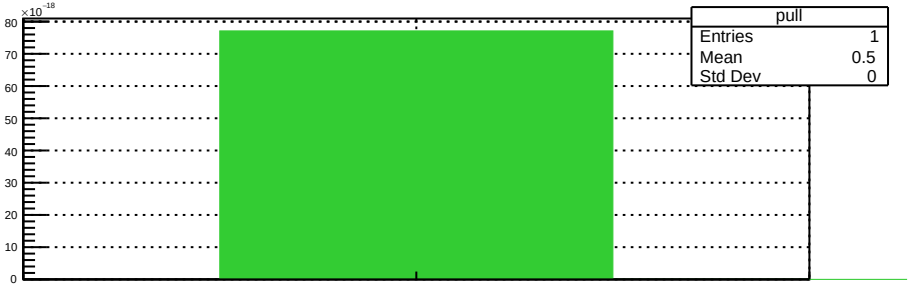

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −17.92 ± 0.5307
−17.4
−17.6
−17.8
−18
−18.2
−18.4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

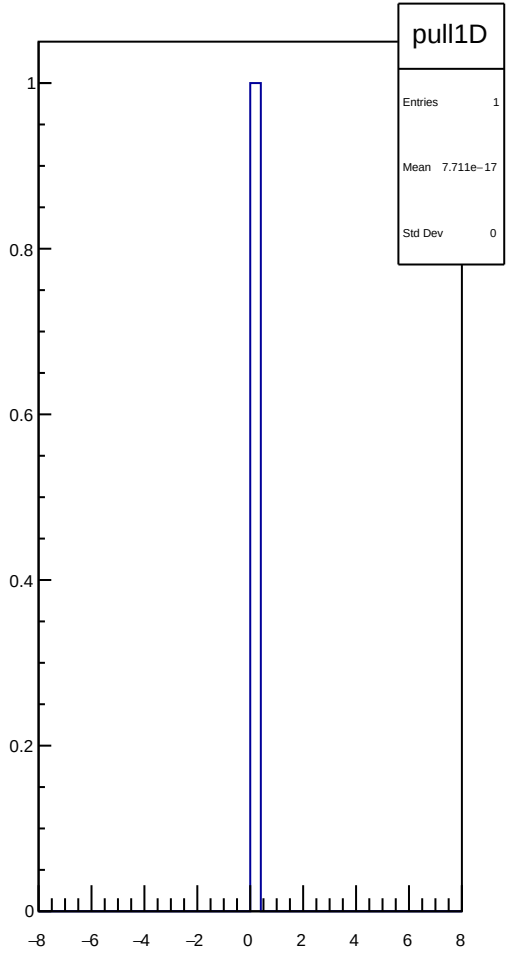

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 1.124 ± 16.48
20
15
10
5
0
−5
−10
−15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

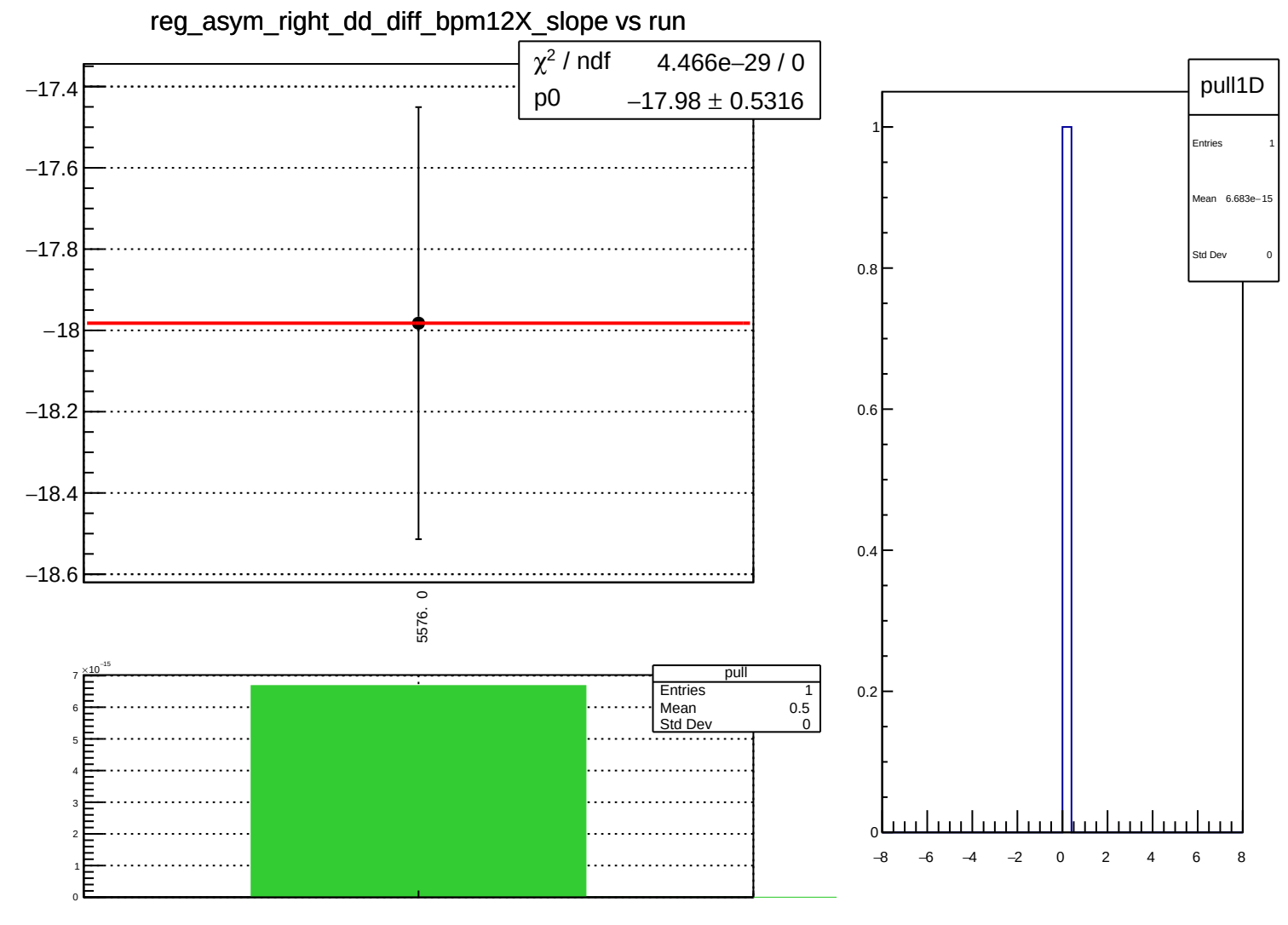

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.221e−32 / 0
p0 13.91 ± 8.646
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.055e−16
Std Dev 0

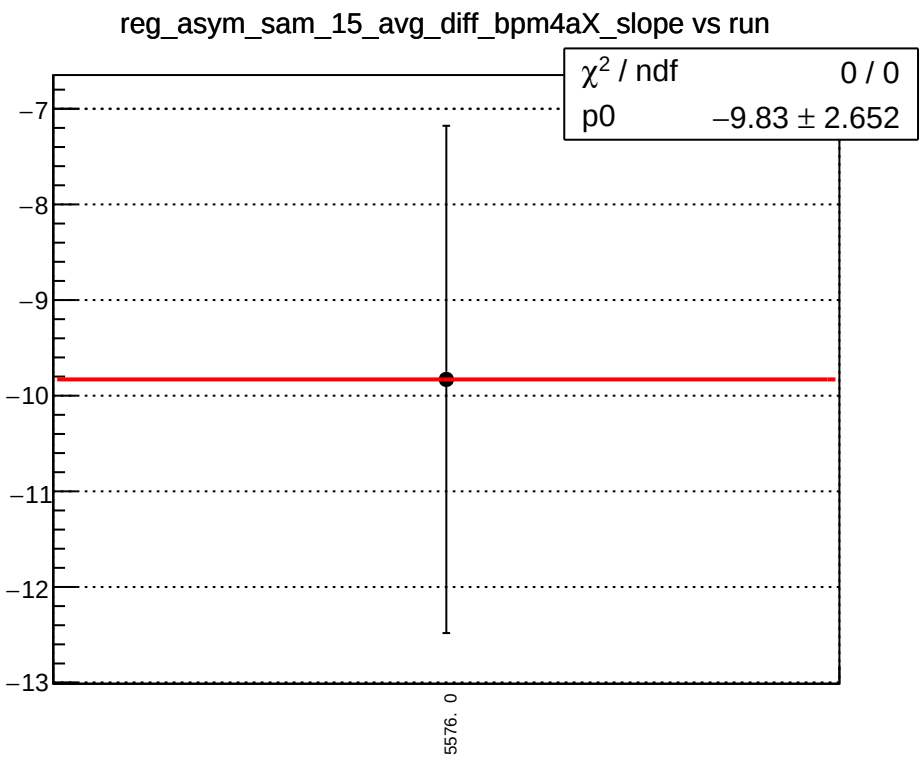

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 44.29 ± 15.68
60
55
50
45
40
35
30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

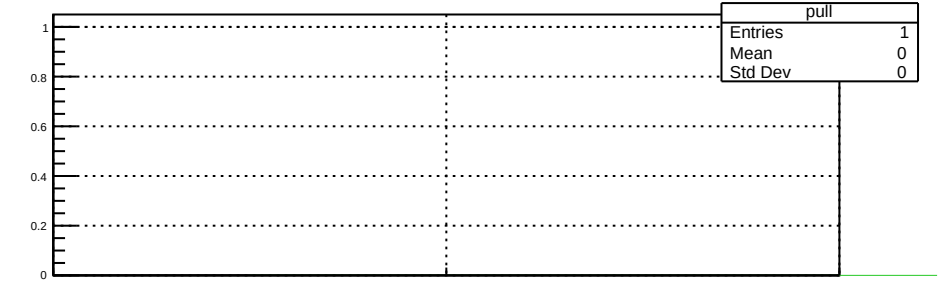

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.946e−33 / 0
p0 −6.992 ± 11.52
5
0
−5
−10
−15
−20
5576. 0

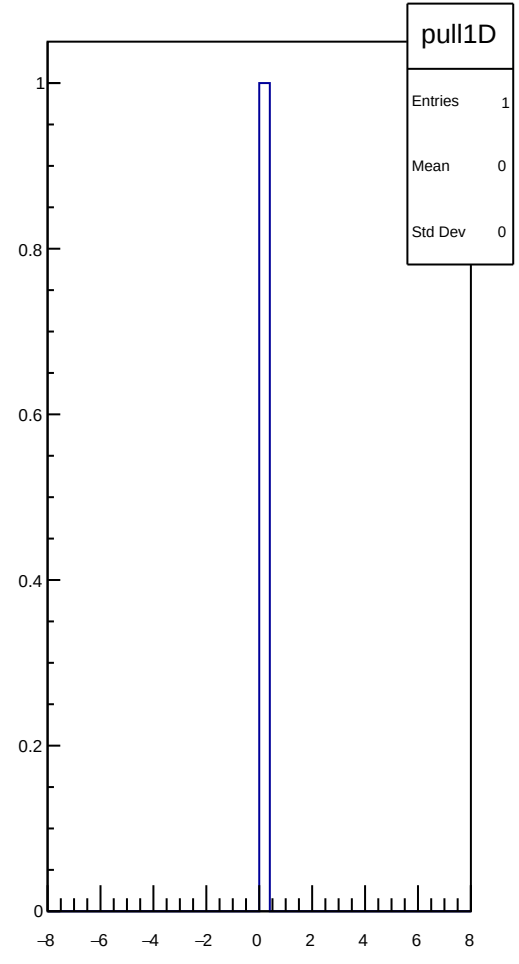

×10⁻¹⁸
80
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

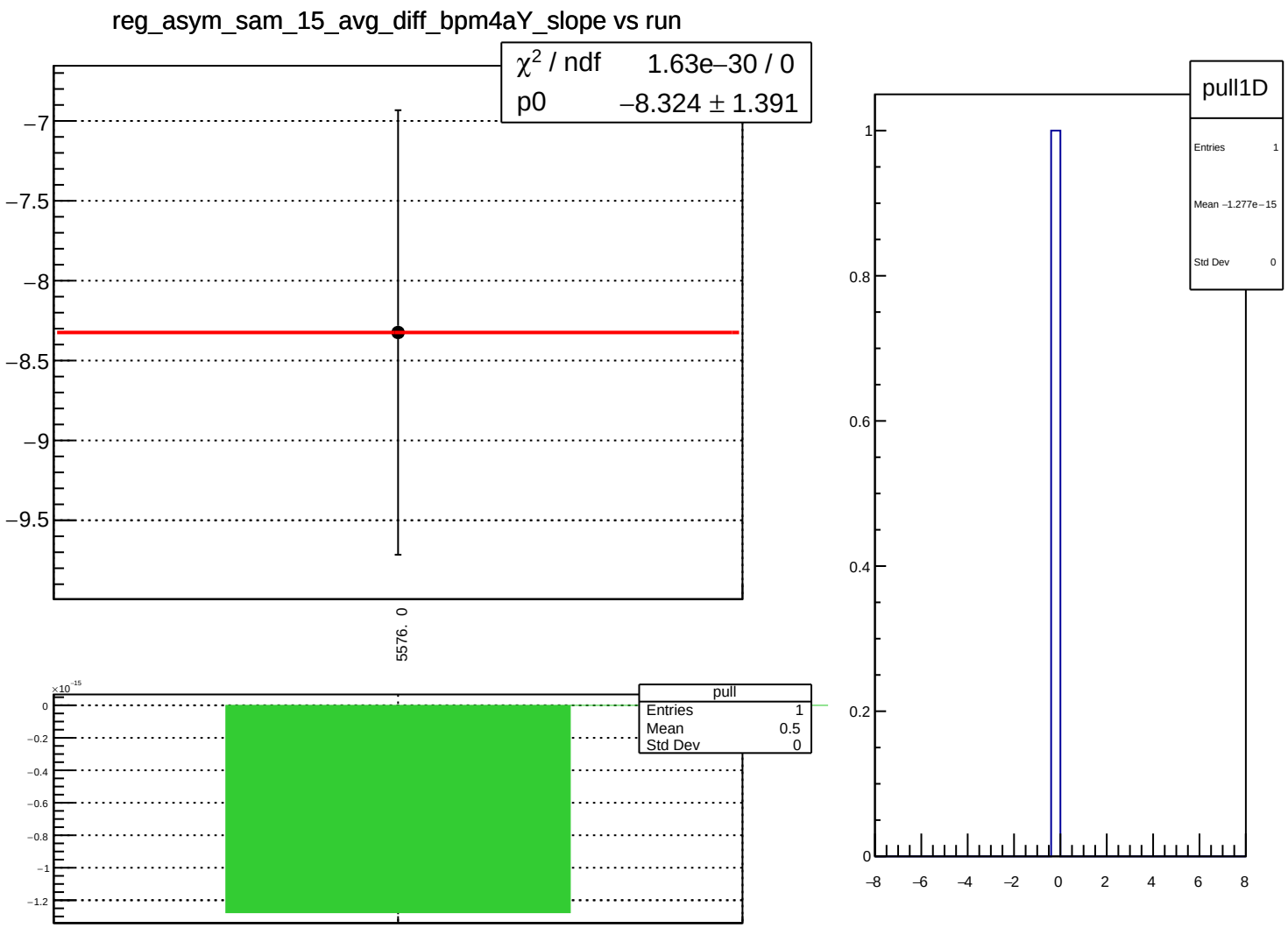

pull1D
Entries 1
Mean 7.711e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

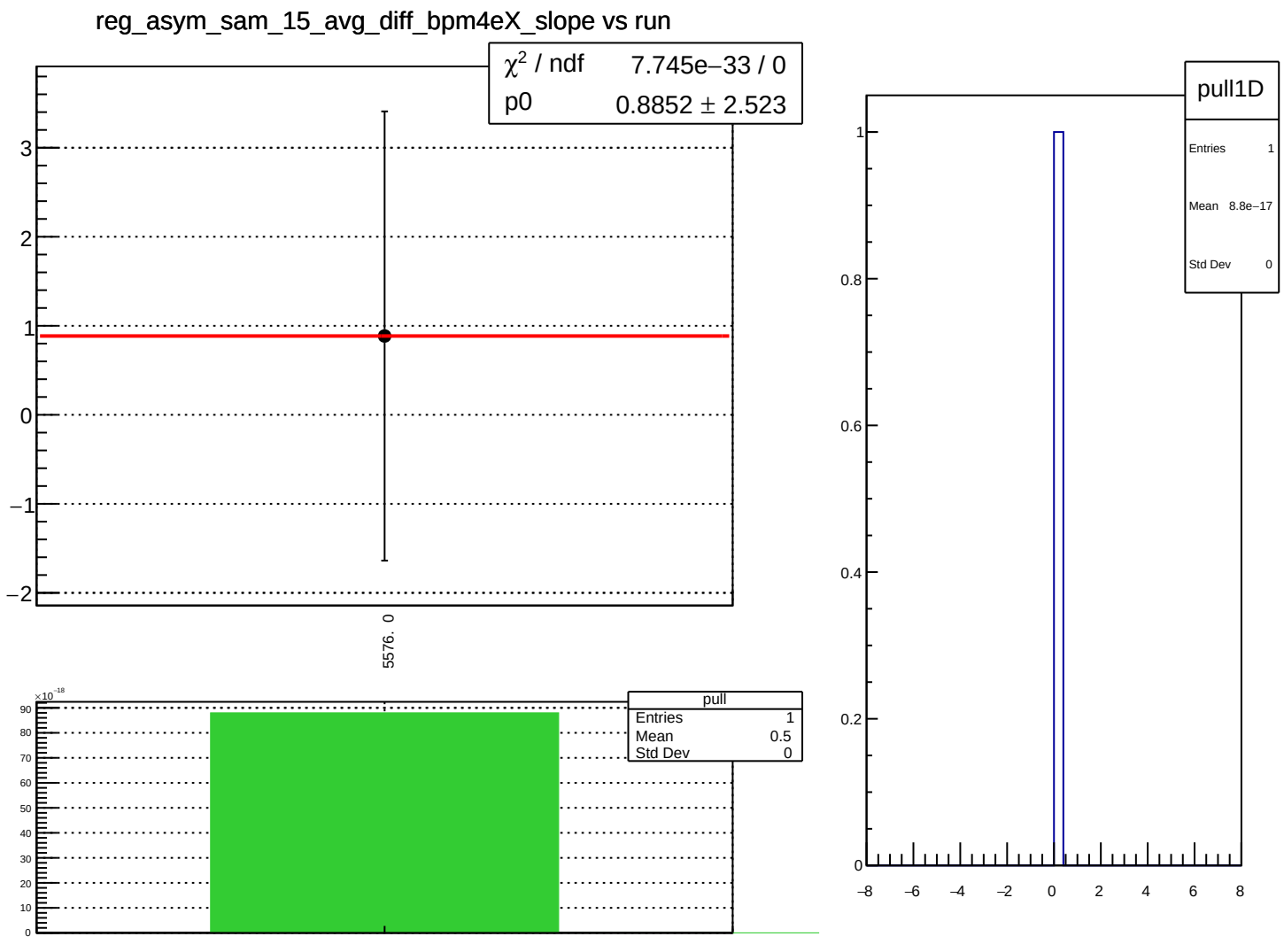

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 4.466e−29 / 0
p0 −17.98 ± 0.5316
−17.4
−17.6
−17.8
−18
−18.2
−18.4
−18.6
5576. 0
×10⁻¹⁵
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 6.683e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

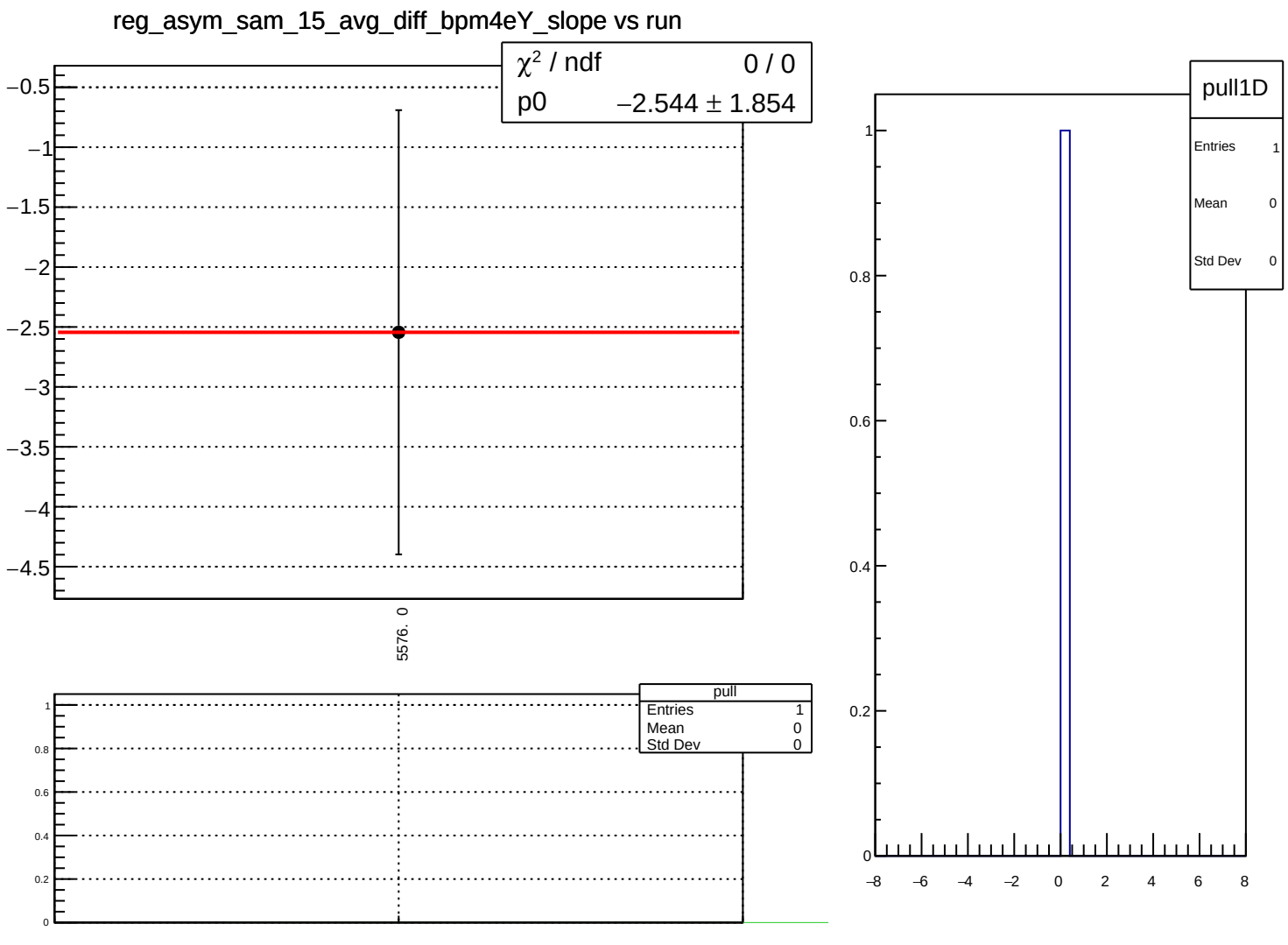

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −9.83 ± 2.652
−7
−8
−9
−10
−11
−12
−13
5576. 0

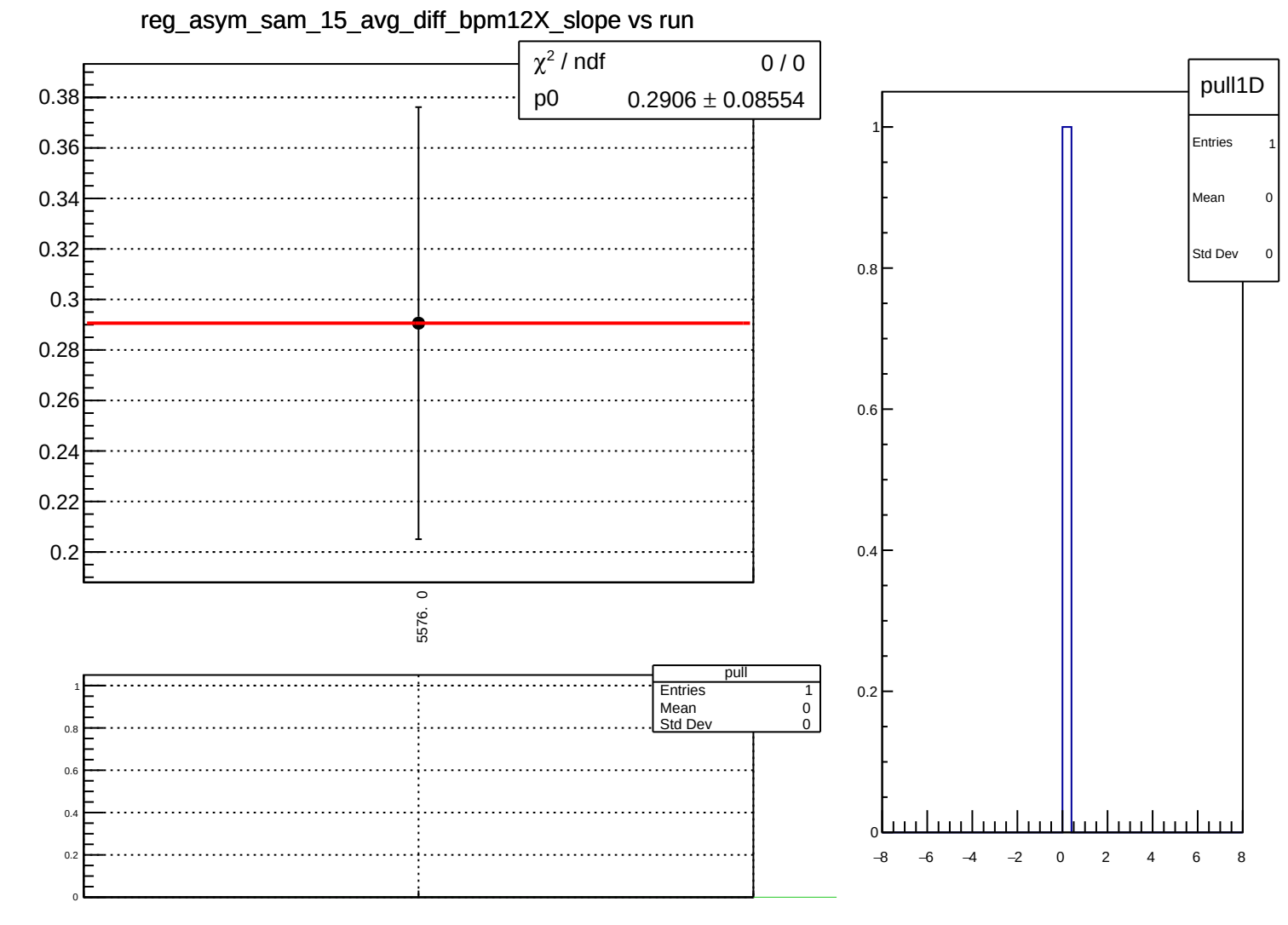

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

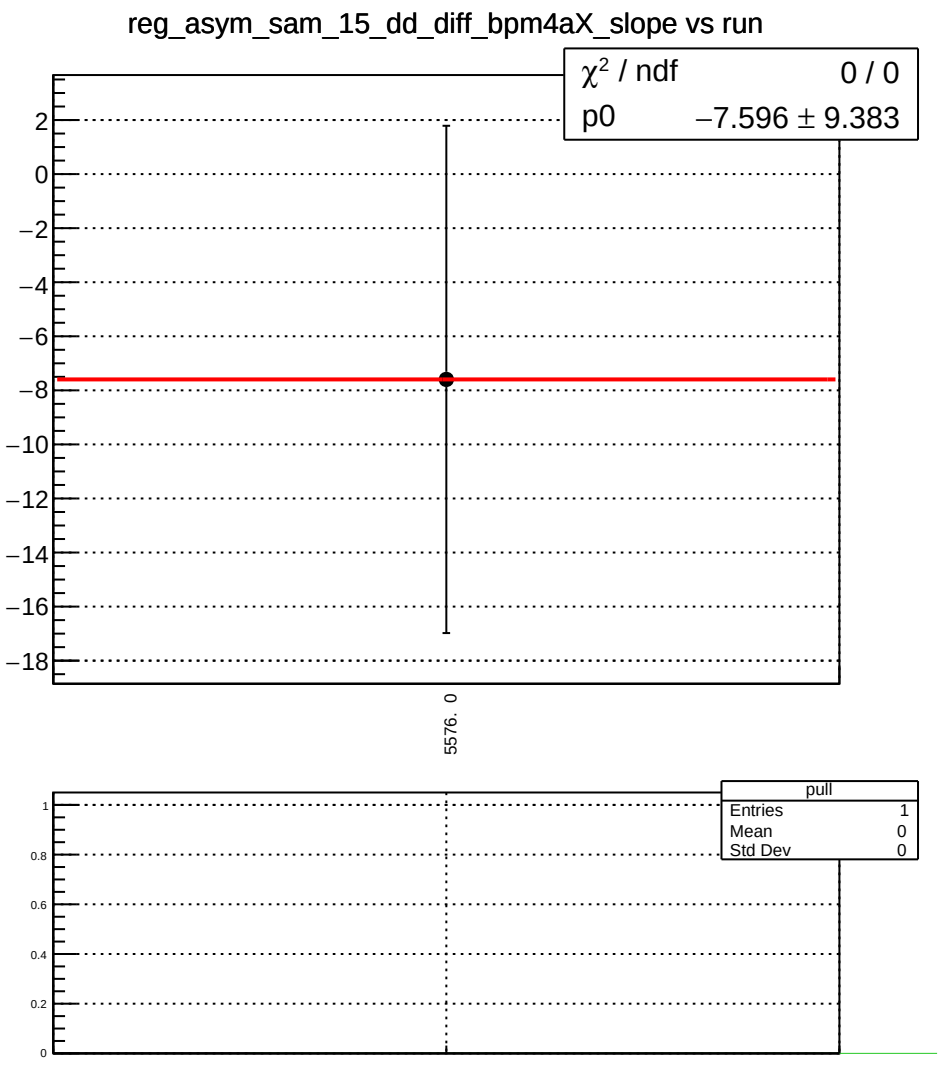

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

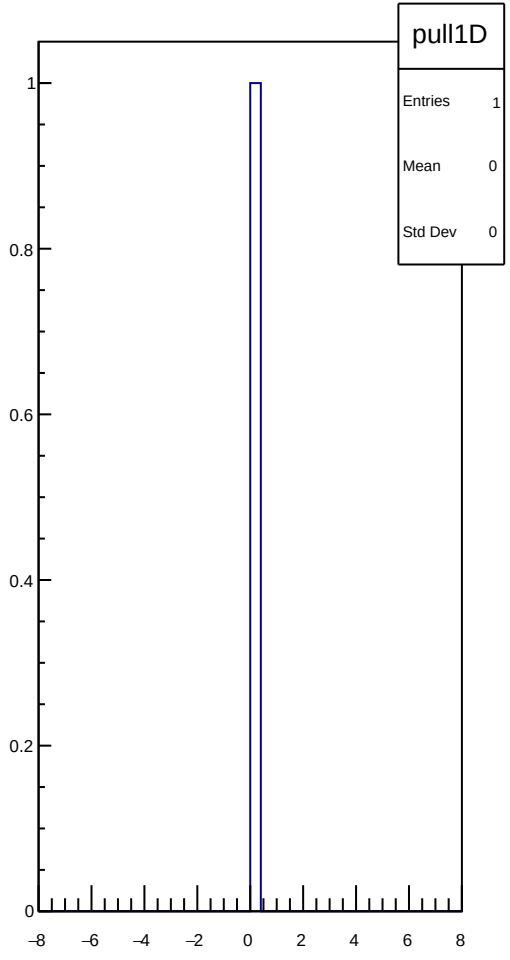

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.63e−30 / 0
p0 −8.324 ± 1.391
−7
−7.5
−8
−8.5
−9
−9.5
5576. 0
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.277e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

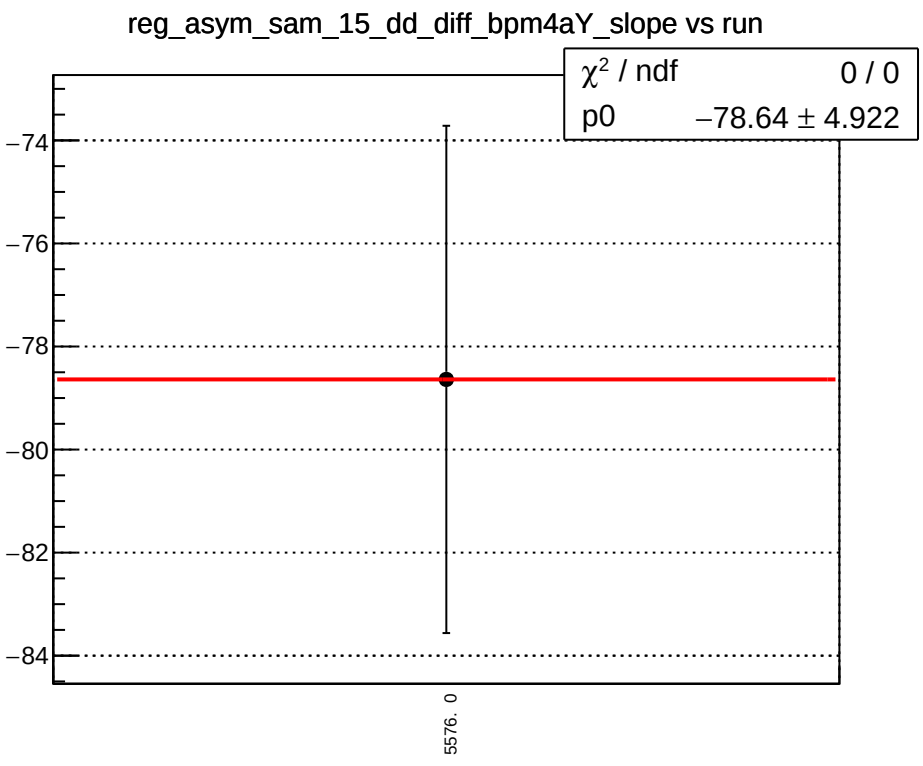

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.745e−33 / 0
p0 0.8852 ± 2.523
3
2
1
0
−1
−2
5576. 0
×10⁻¹⁸
90
80
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 8.8e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

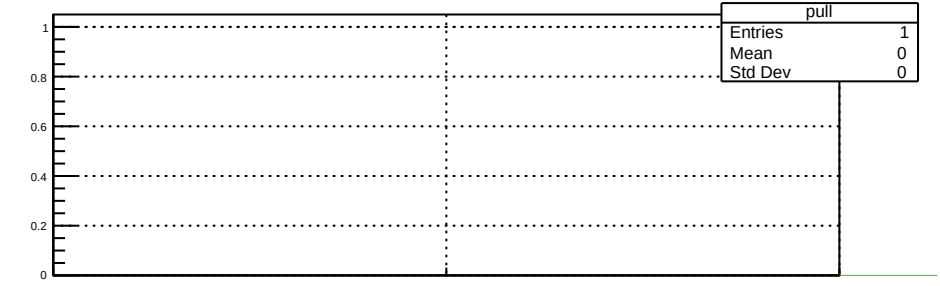

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −2.544 ± 1.854
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

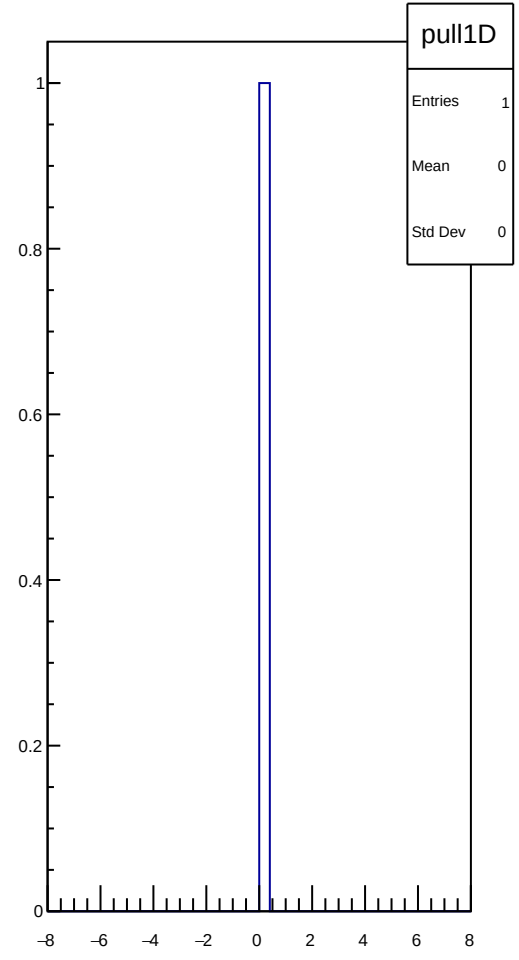

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.2906 ± 0.08554
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

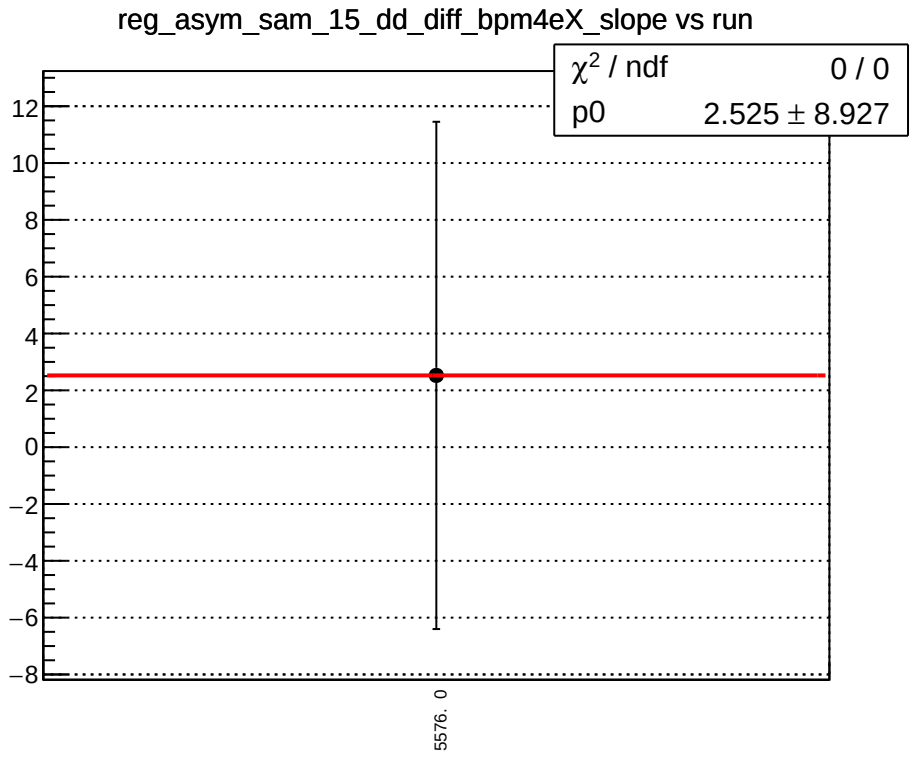

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −7.596 ± 9.383
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

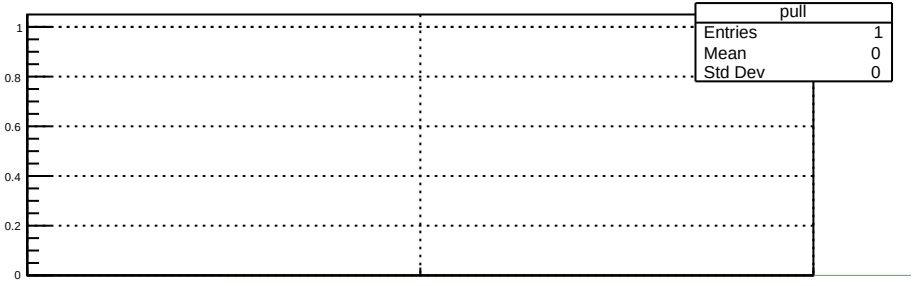

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

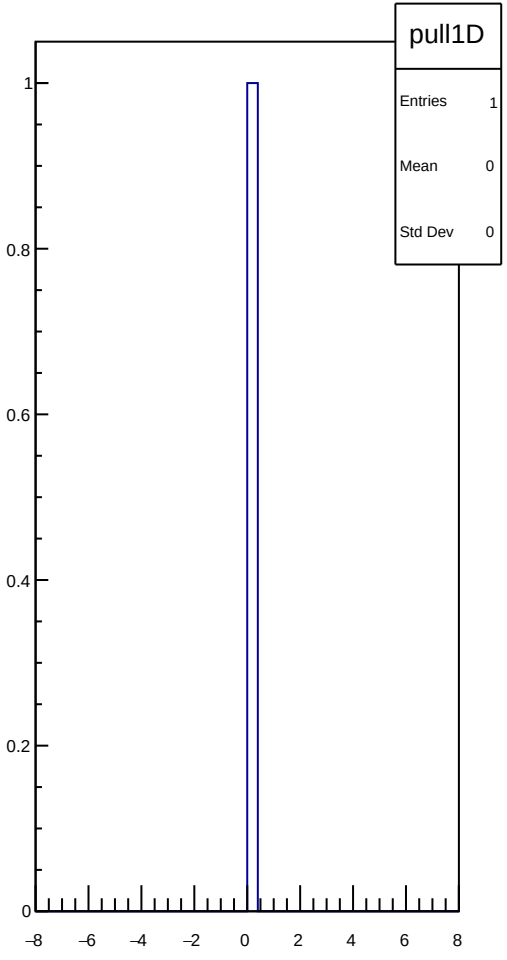

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −78.64 ± 4.922
−74
−76
−78
−80
−82
−84
5576. 0

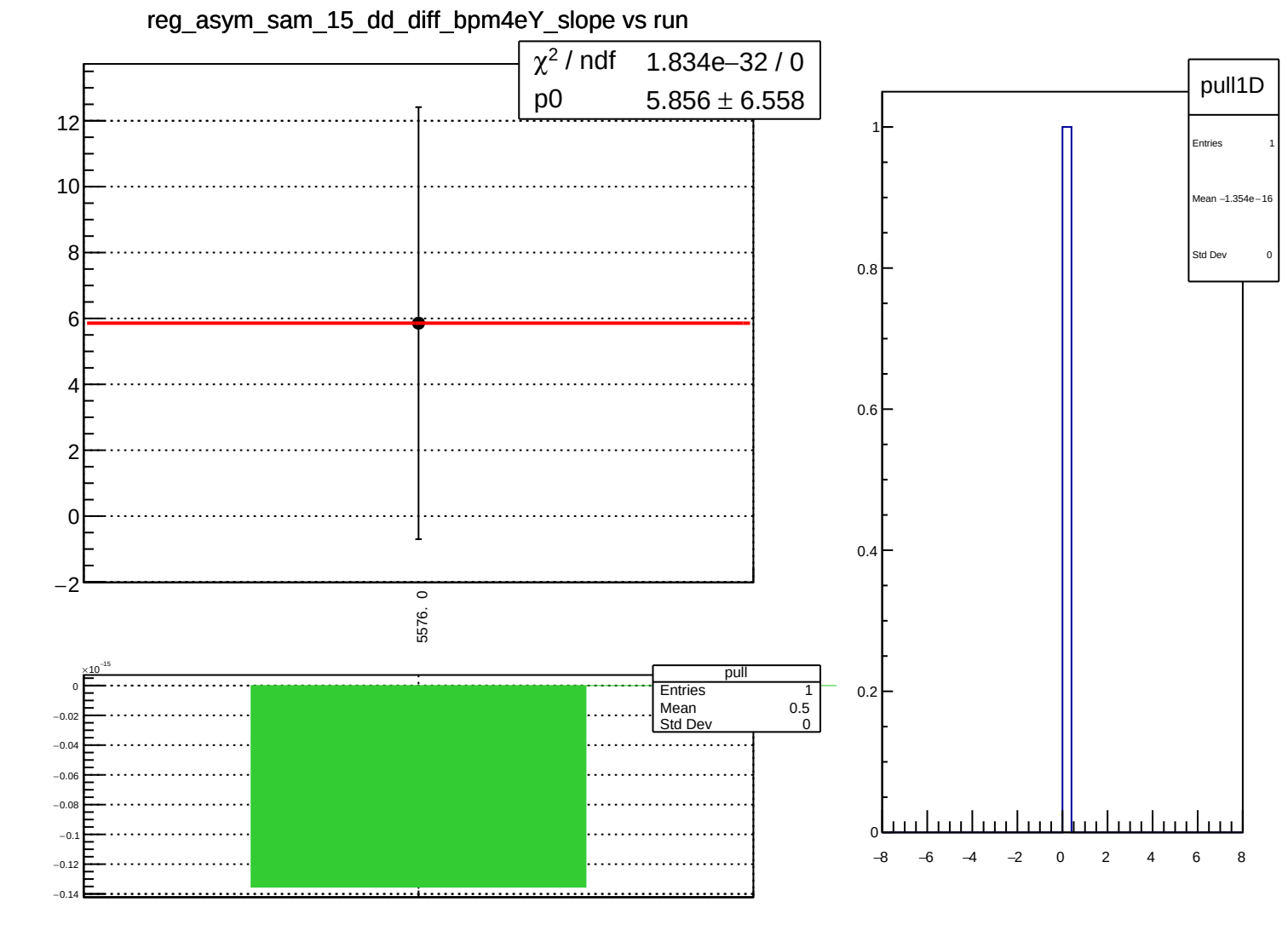

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

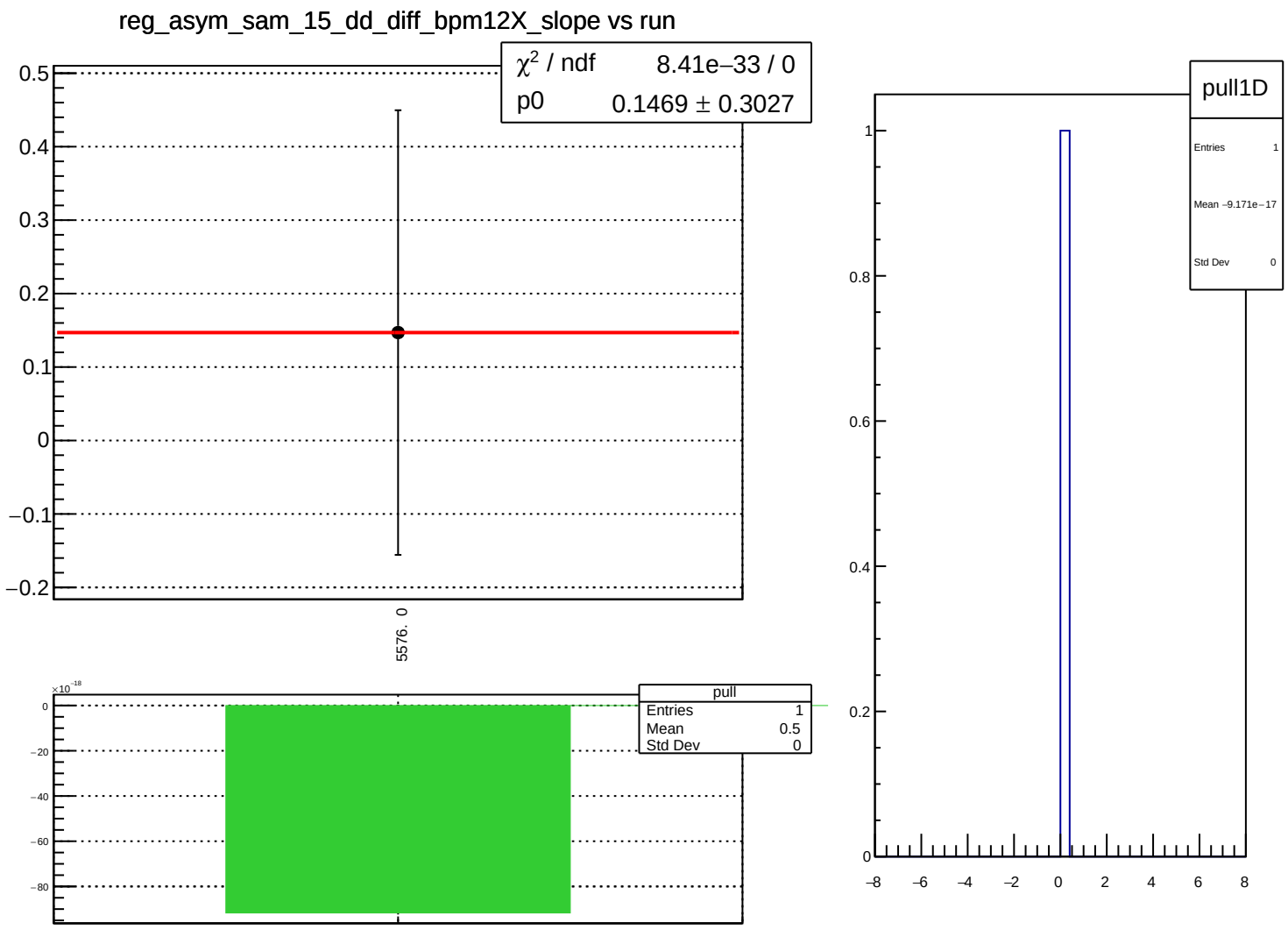

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

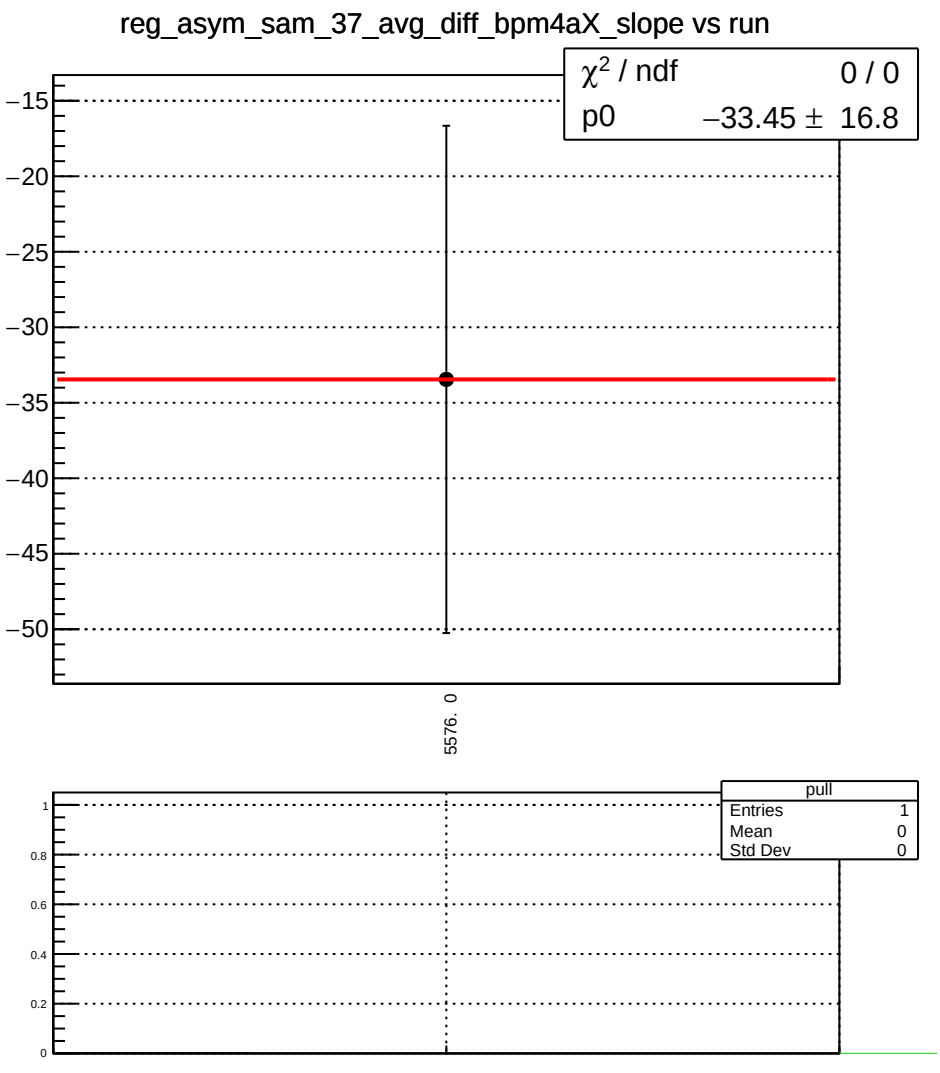

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 2.525 ± 8.927
12
10
8
6
4
2
0
−2
−4
−6
−8
5576. 0

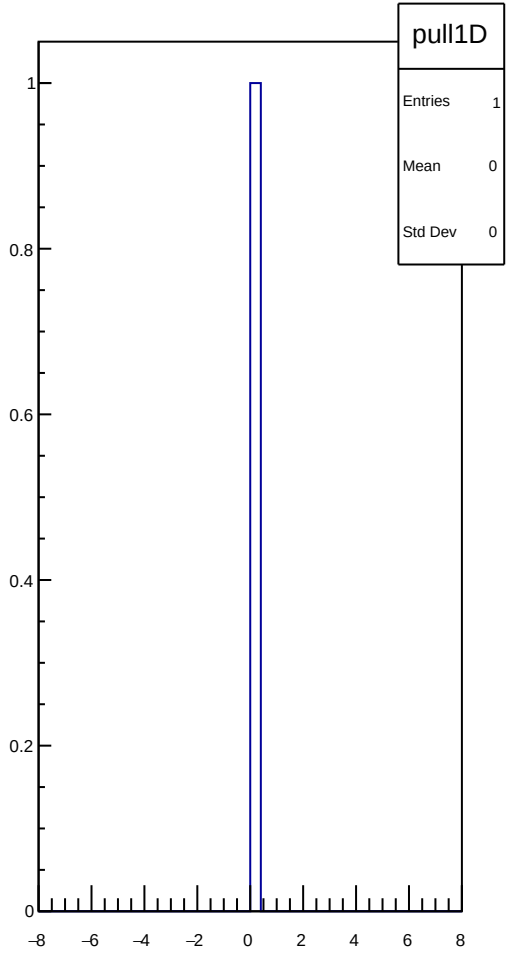

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

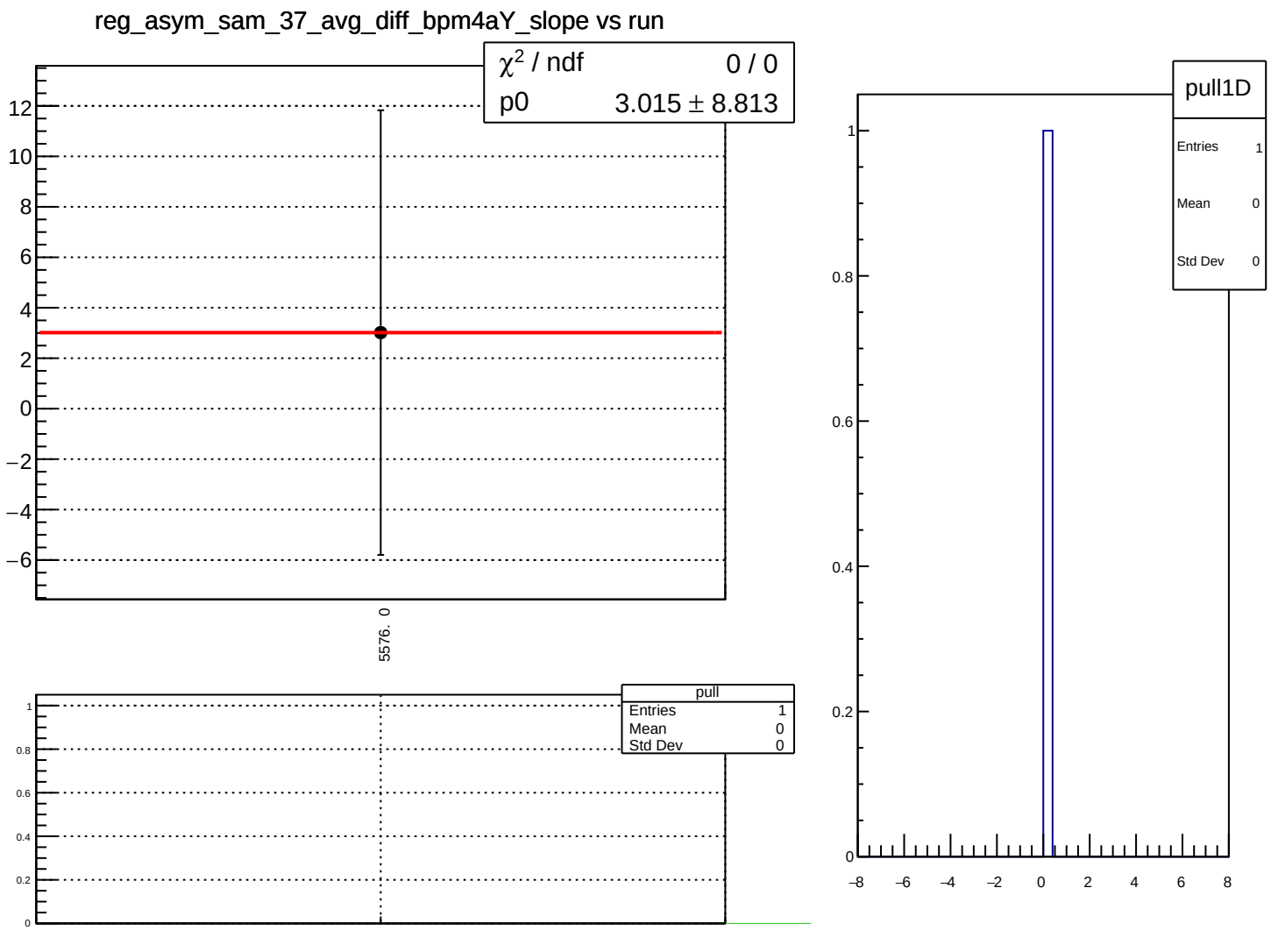

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

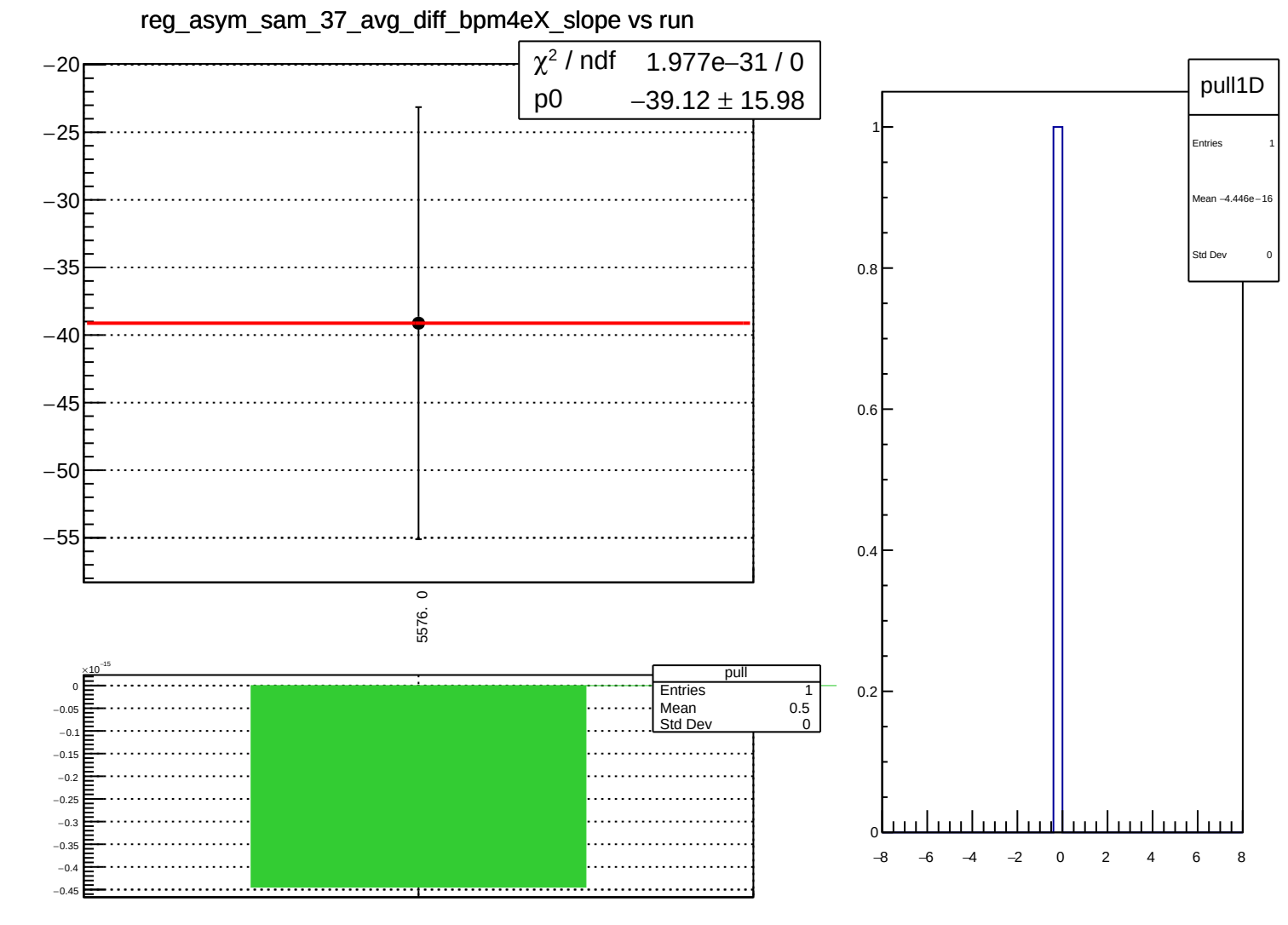

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.834e−32 / 0
p0 5.856 ± 6.558
12
10
8
6
4
2
0
−2
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.354e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

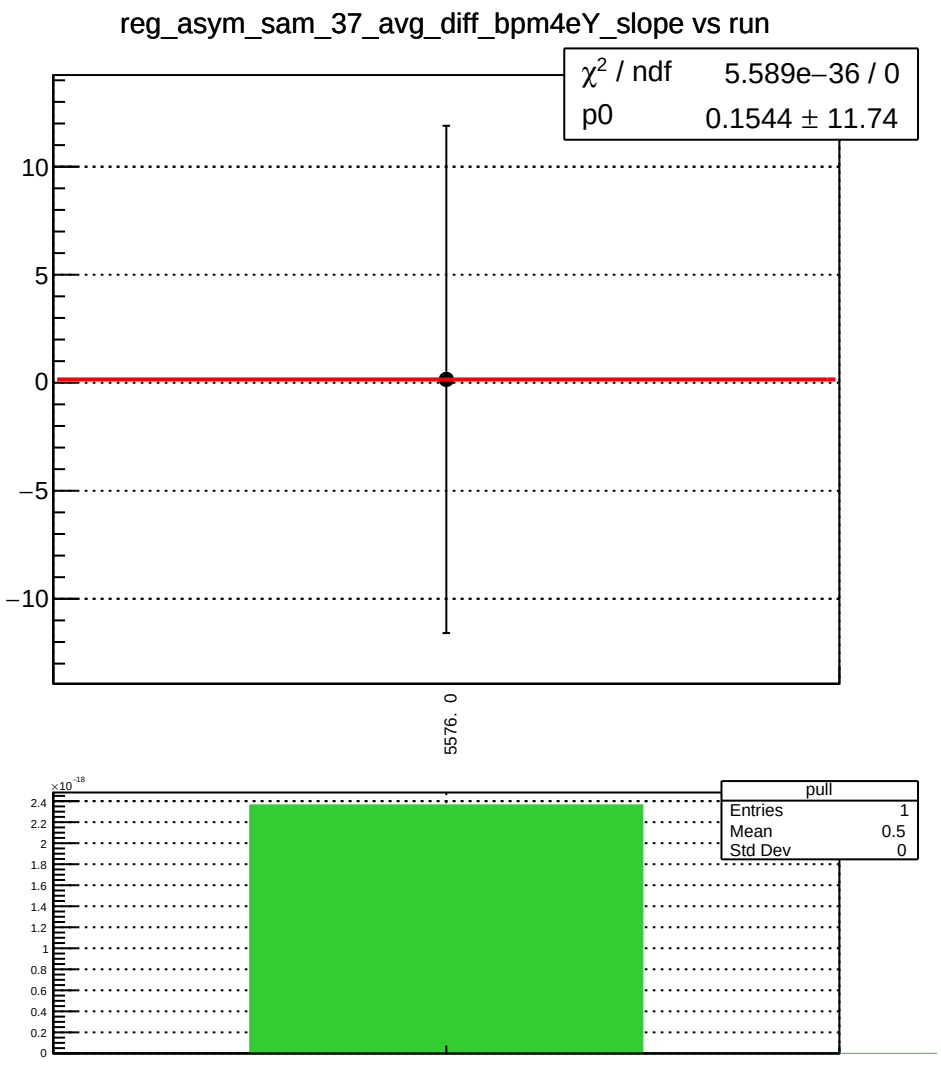

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 8.41e−33 / 0
p0 0.1469 ± 0.3027
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5576. 0
×10⁻¹⁸
0
−20
−40
−60
−80
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −9.171e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

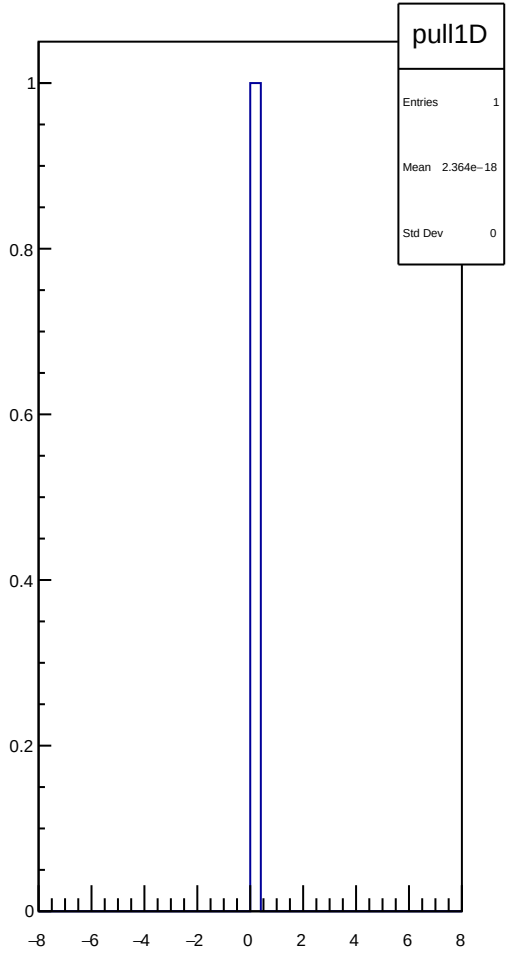

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −33.45 ± 16.8
−15
−20
−25
−30
−35
−40
−45
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

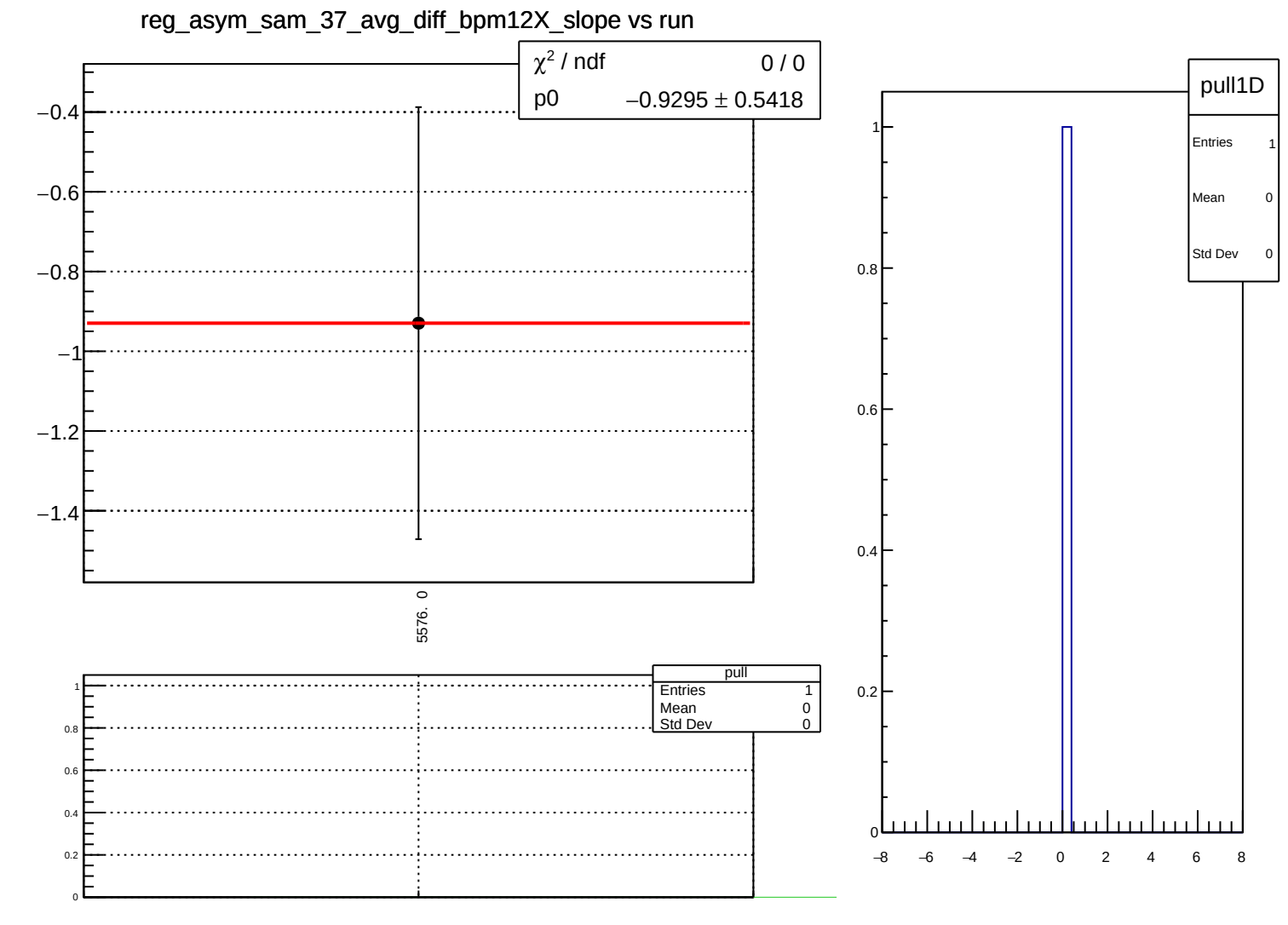

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

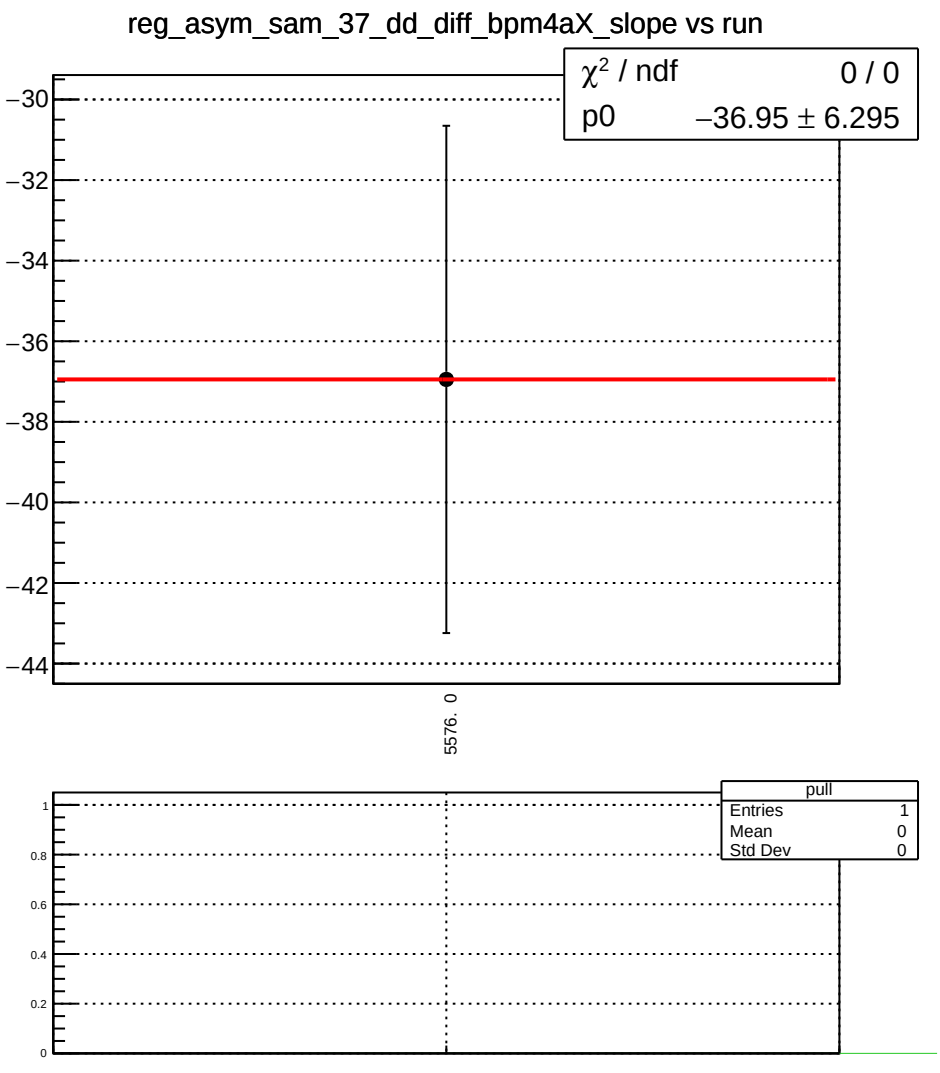

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 3.015 ± 8.813
12
10
8
6
4
2
0
−2
−4
−6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

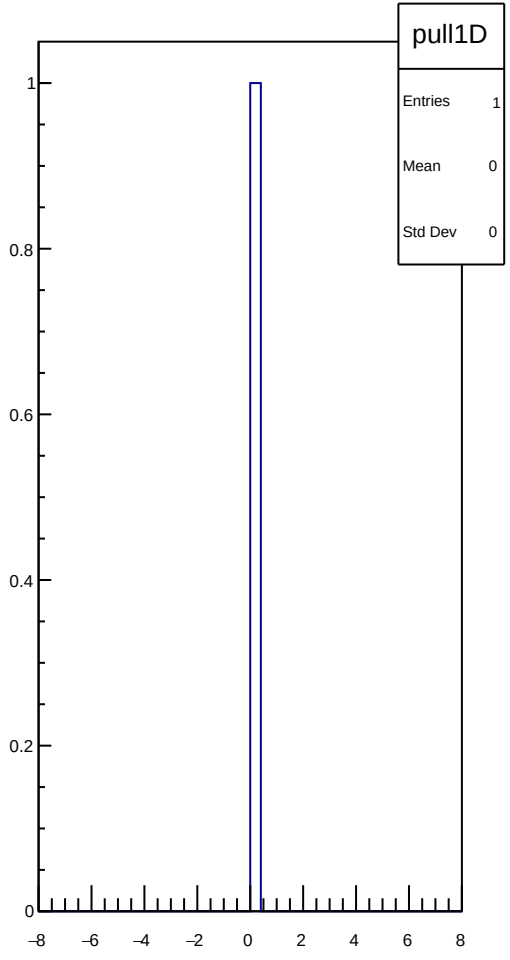

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.977e−31 / 0
p0 −39.12 ± 15.98
−20
−25
−30
−35
−40
−45
−50
−55
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.446e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

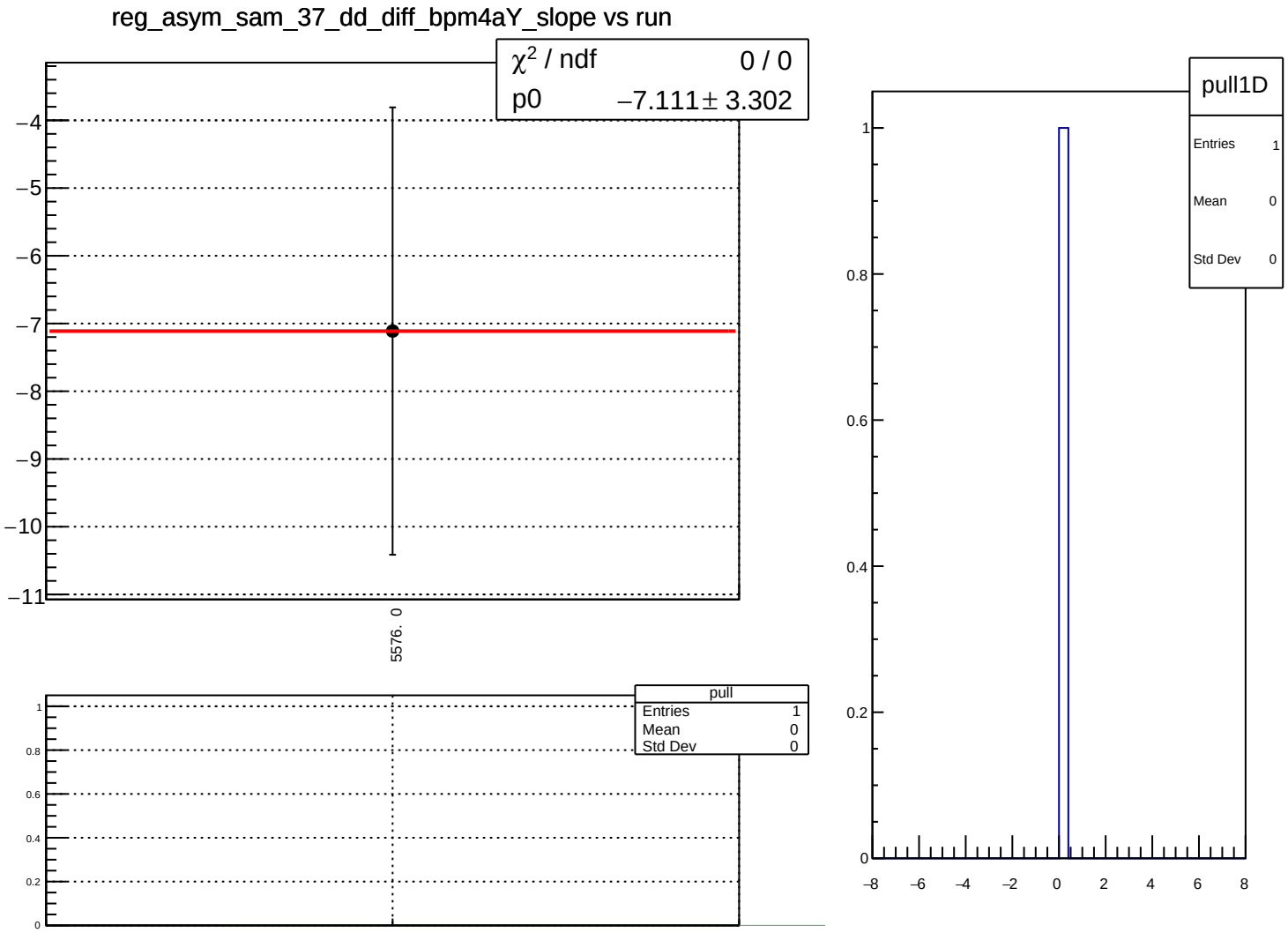

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.589e−36 / 0
p0 0.1544 ± 11.74
10
5
0
−5
−10
5576. 0
×10⁻¹⁸
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 1
Mean 0.5
Std Dev 0

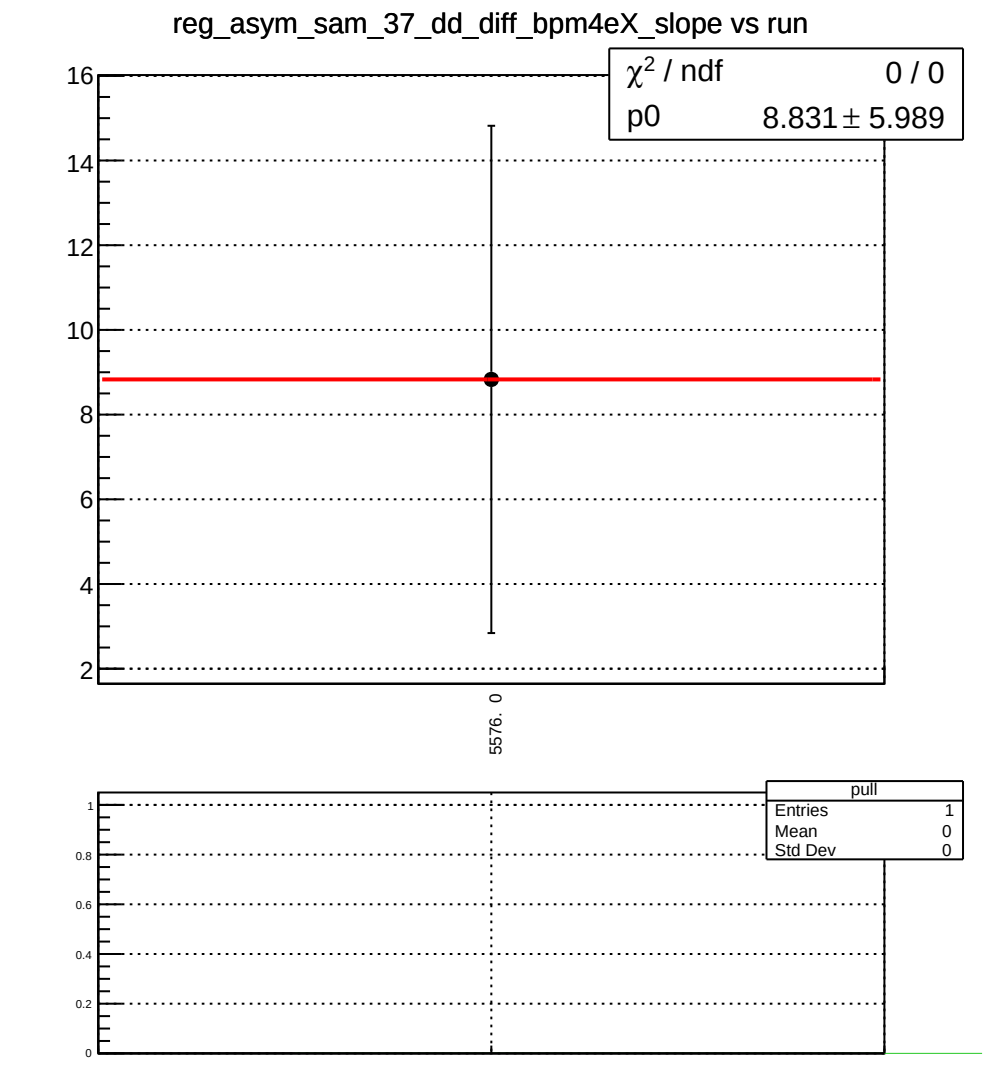

pull1D
Entries 1
Mean 2.364e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

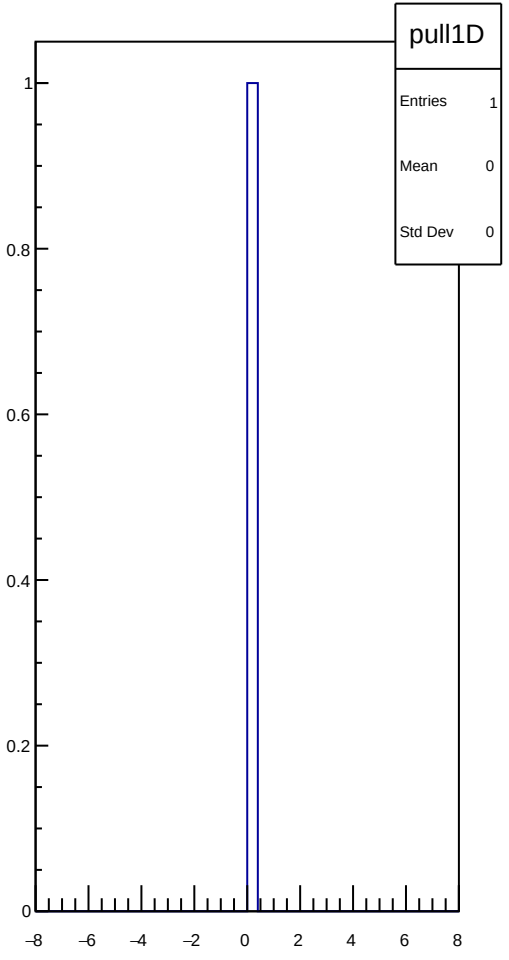

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.9295 ± 0.5418
−0.4
−0.6
−0.8
−1
−1.2
−1.4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

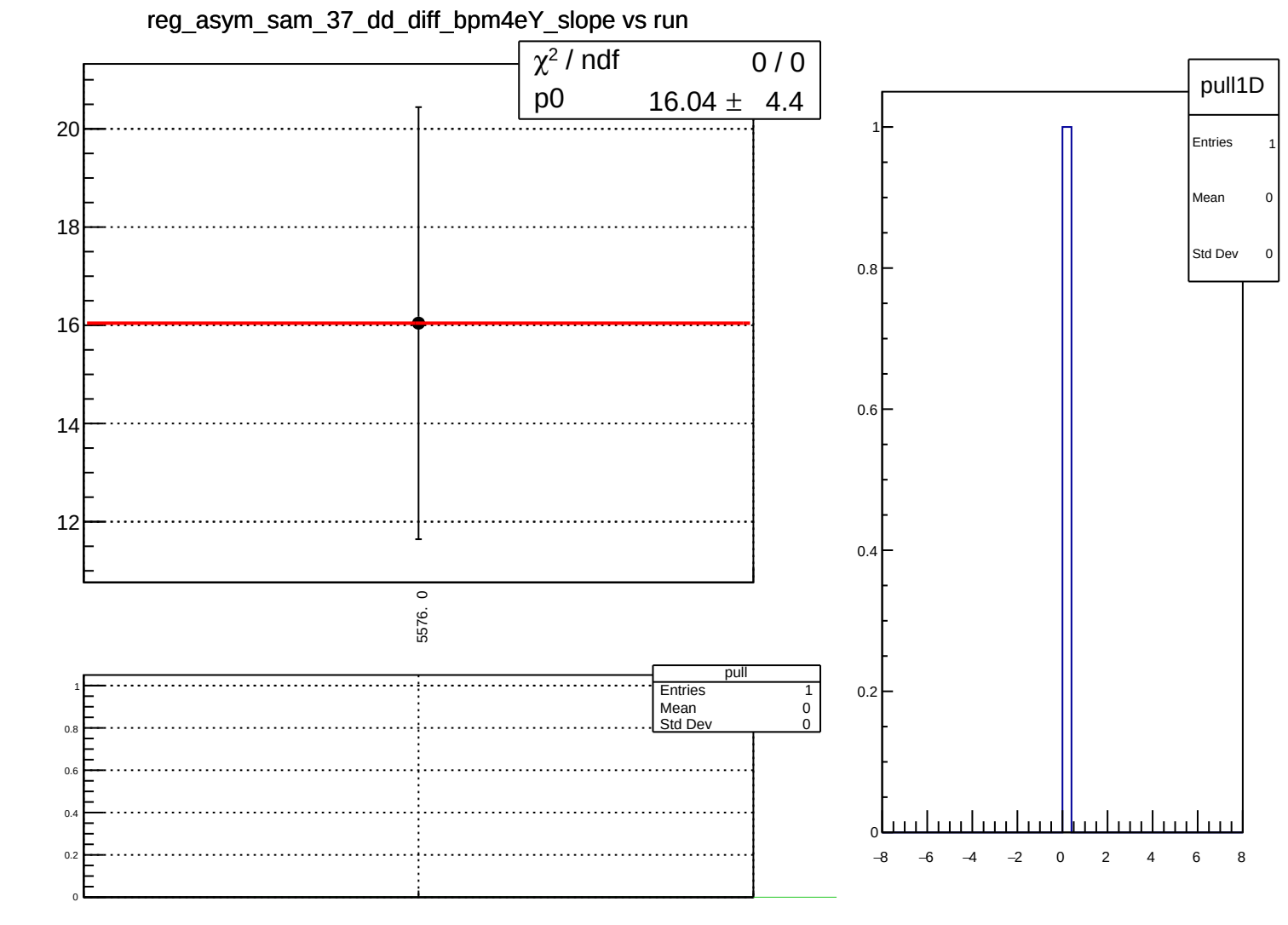

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −36.95 ± 6.295
−30
−32
−34
−36
−38
−40
−42
−44
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

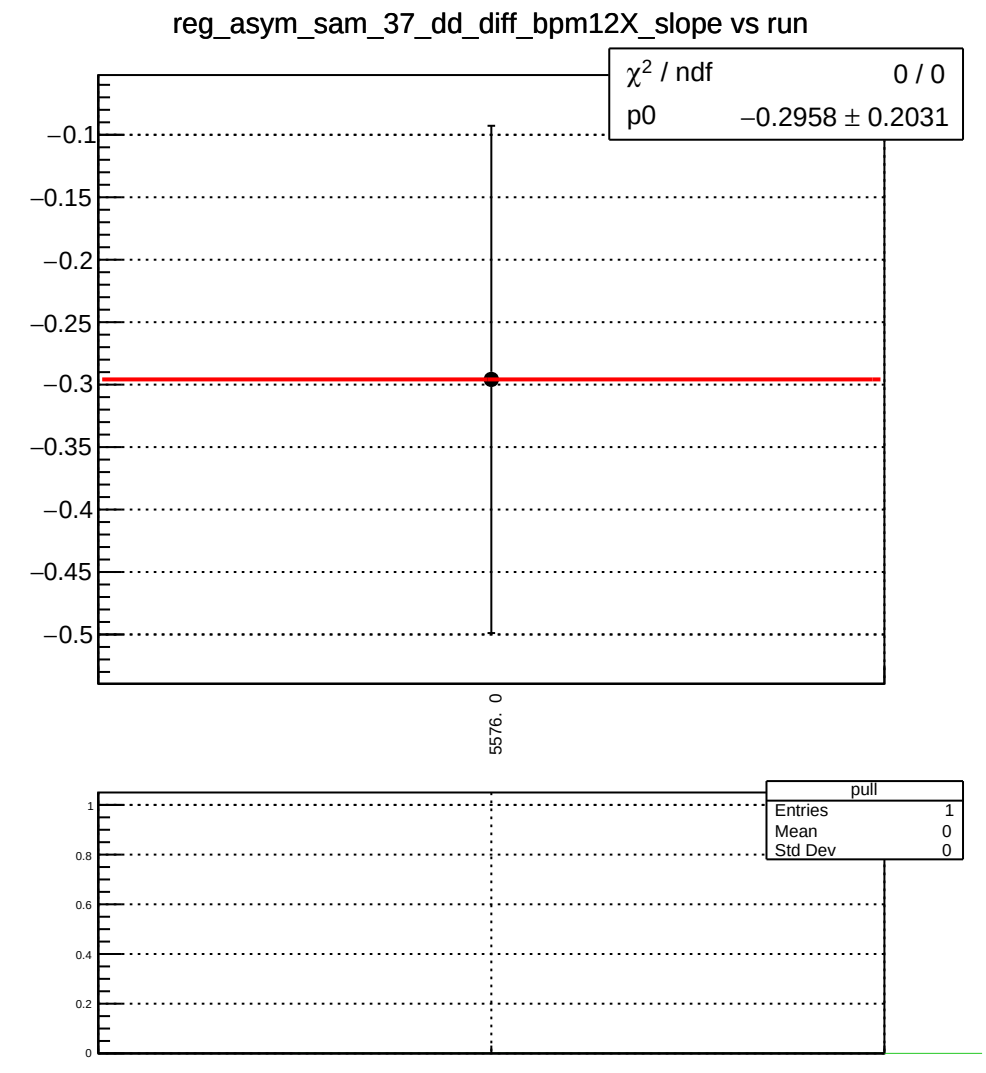

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

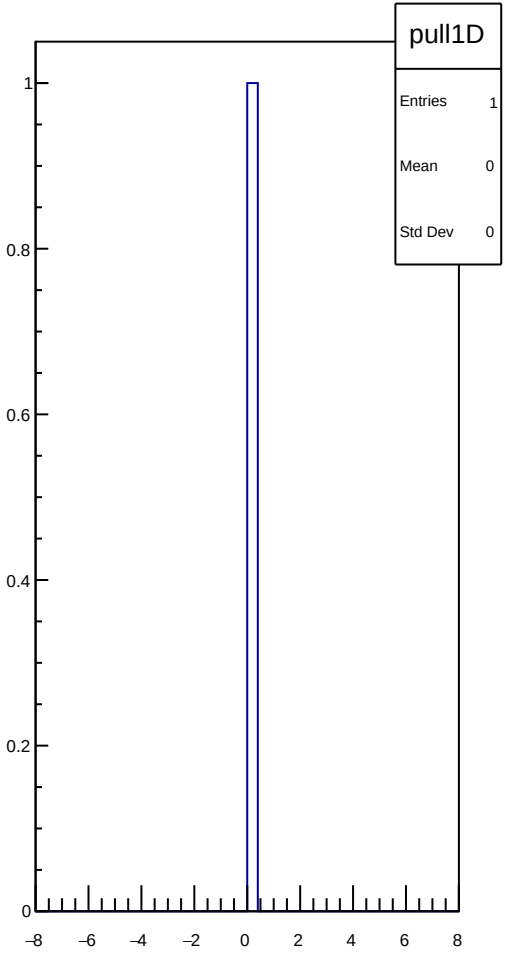

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ2 / ndf 0 / 0
p0 −7.111± 3.302
−4
−5
−6
−7
−8
−9
−10
−11
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

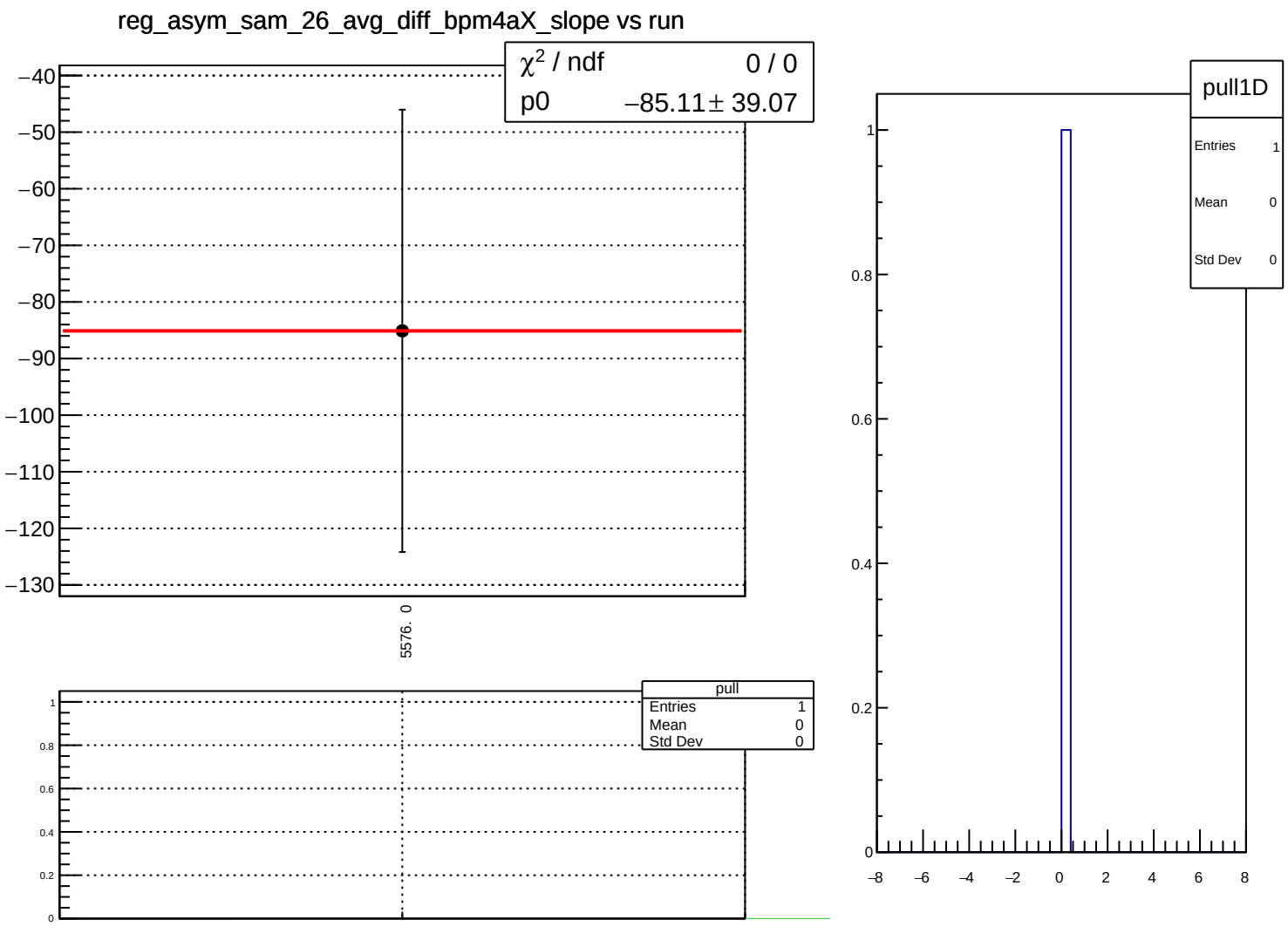

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 8.831 ± 5.989
16
14
12
10
8
6
4
2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

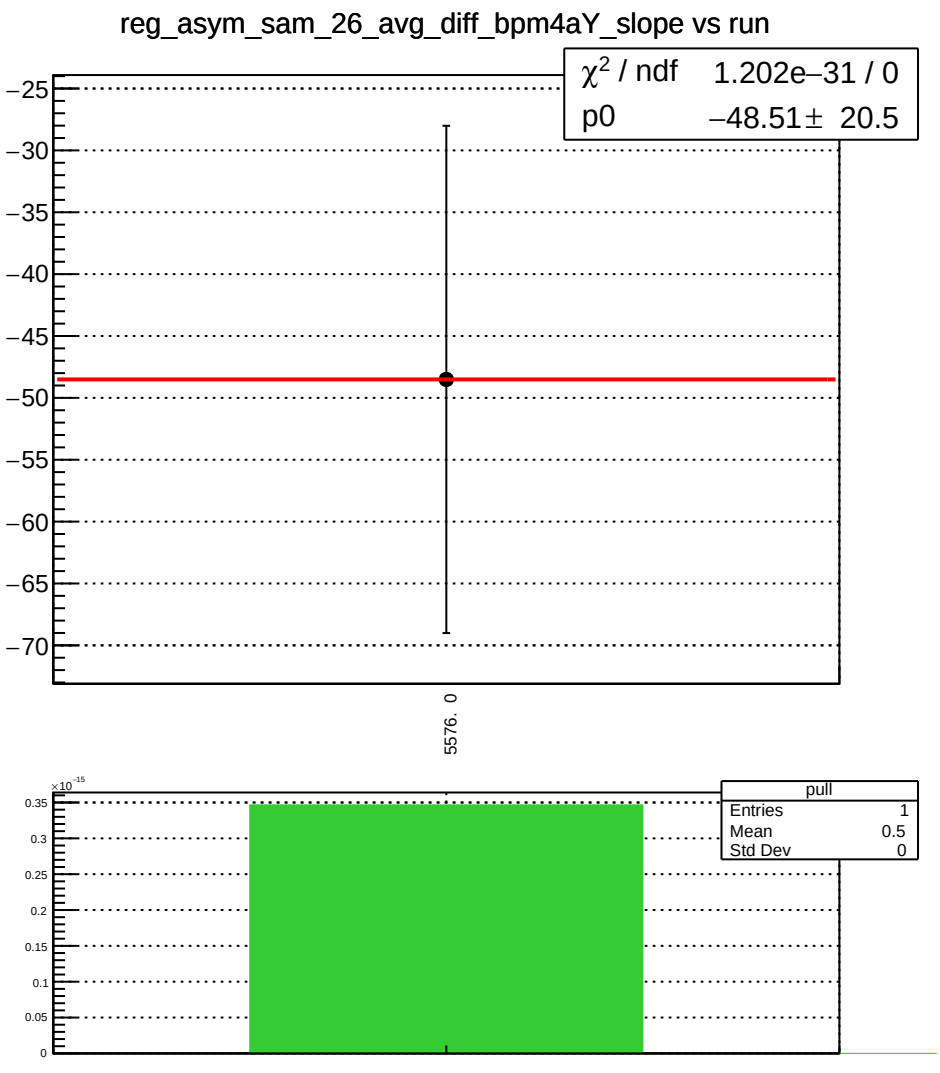

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

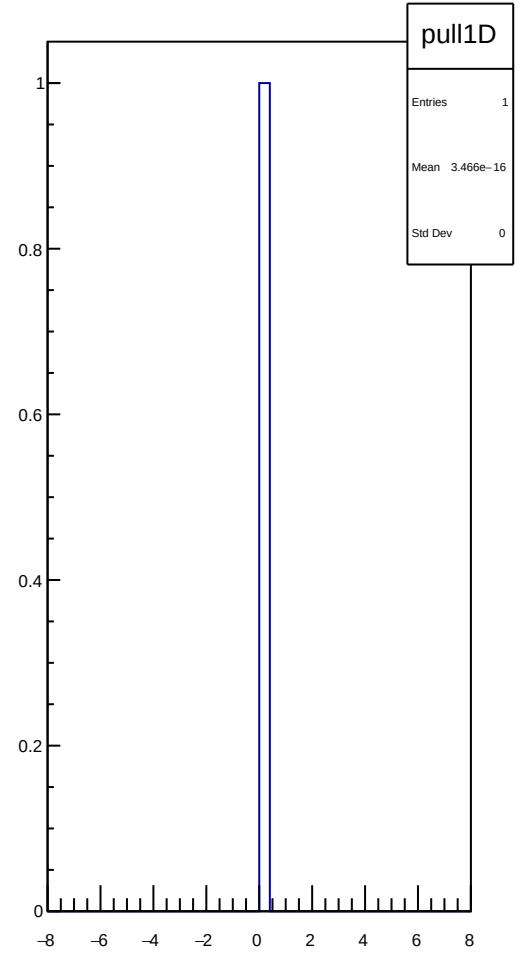

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 16.04 ± 4.4
20
18
16
14
12
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

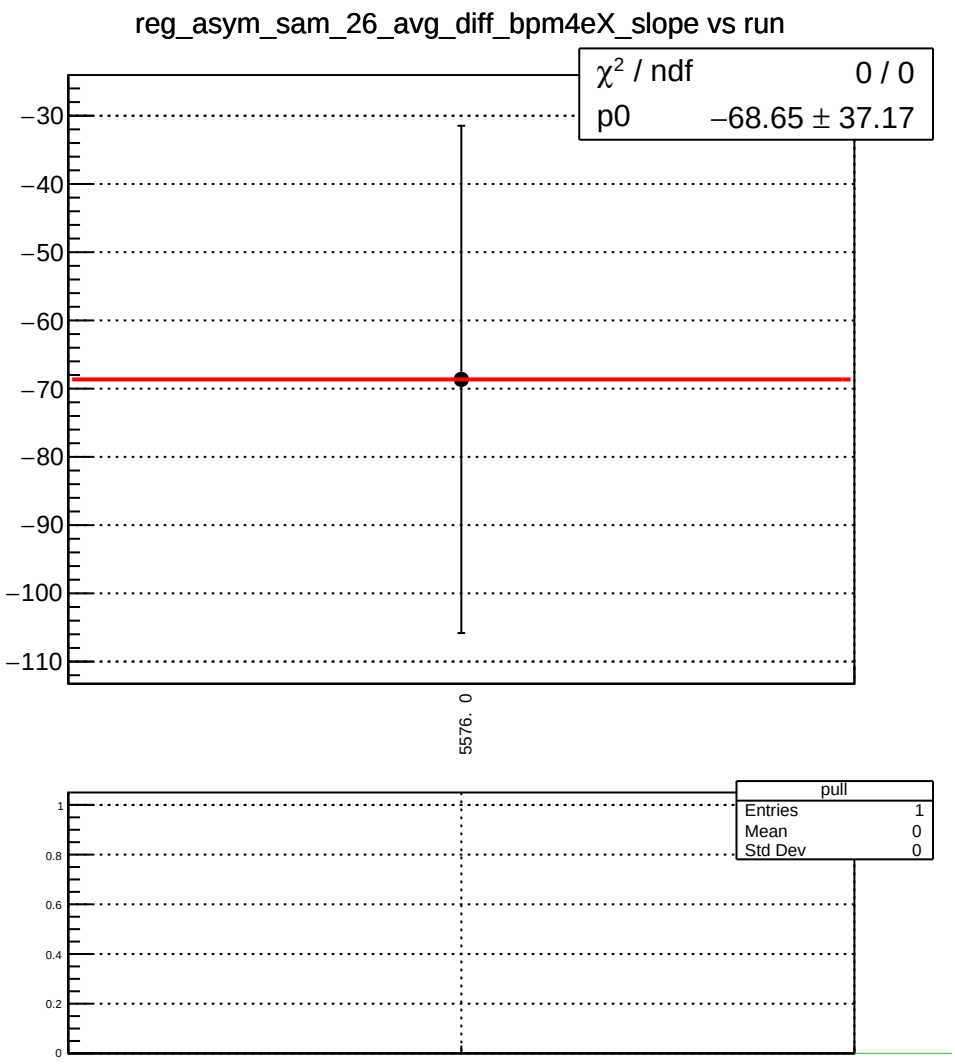

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.2958 ± 0.2031
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

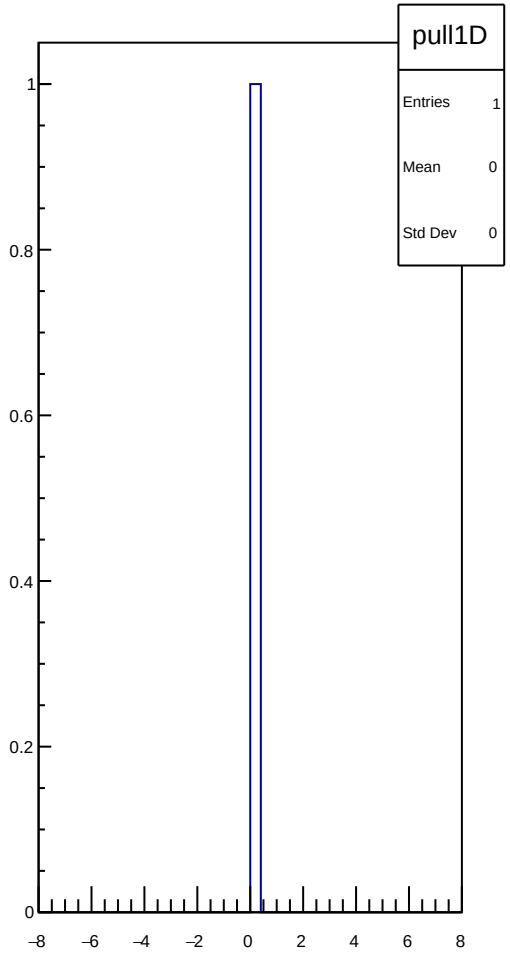

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

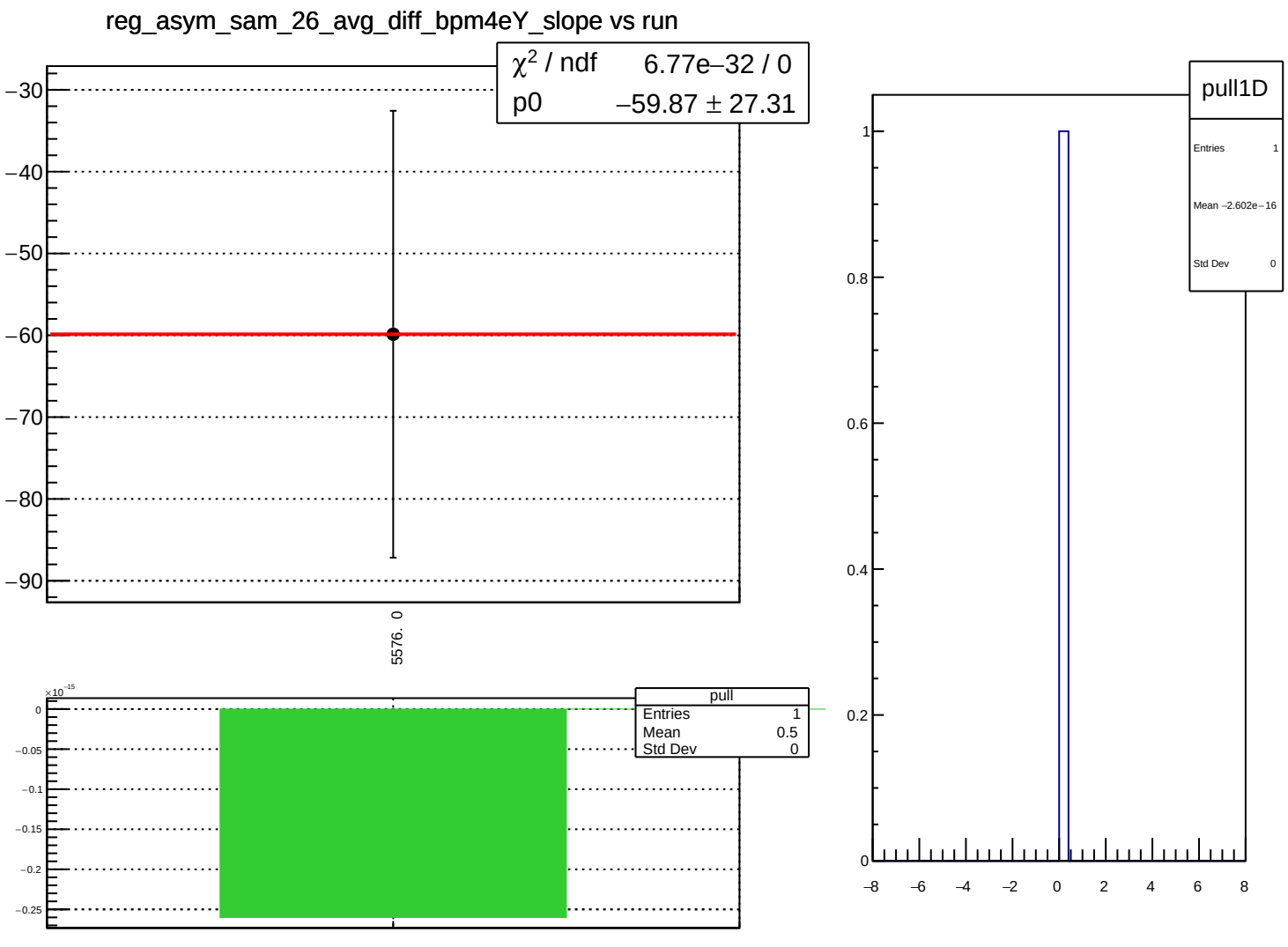

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ2 / ndf 0 / 0
p0 −85.11± 39.07
−40
−50
−60
−70
−80
−90
−100
−110
−120
−130
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

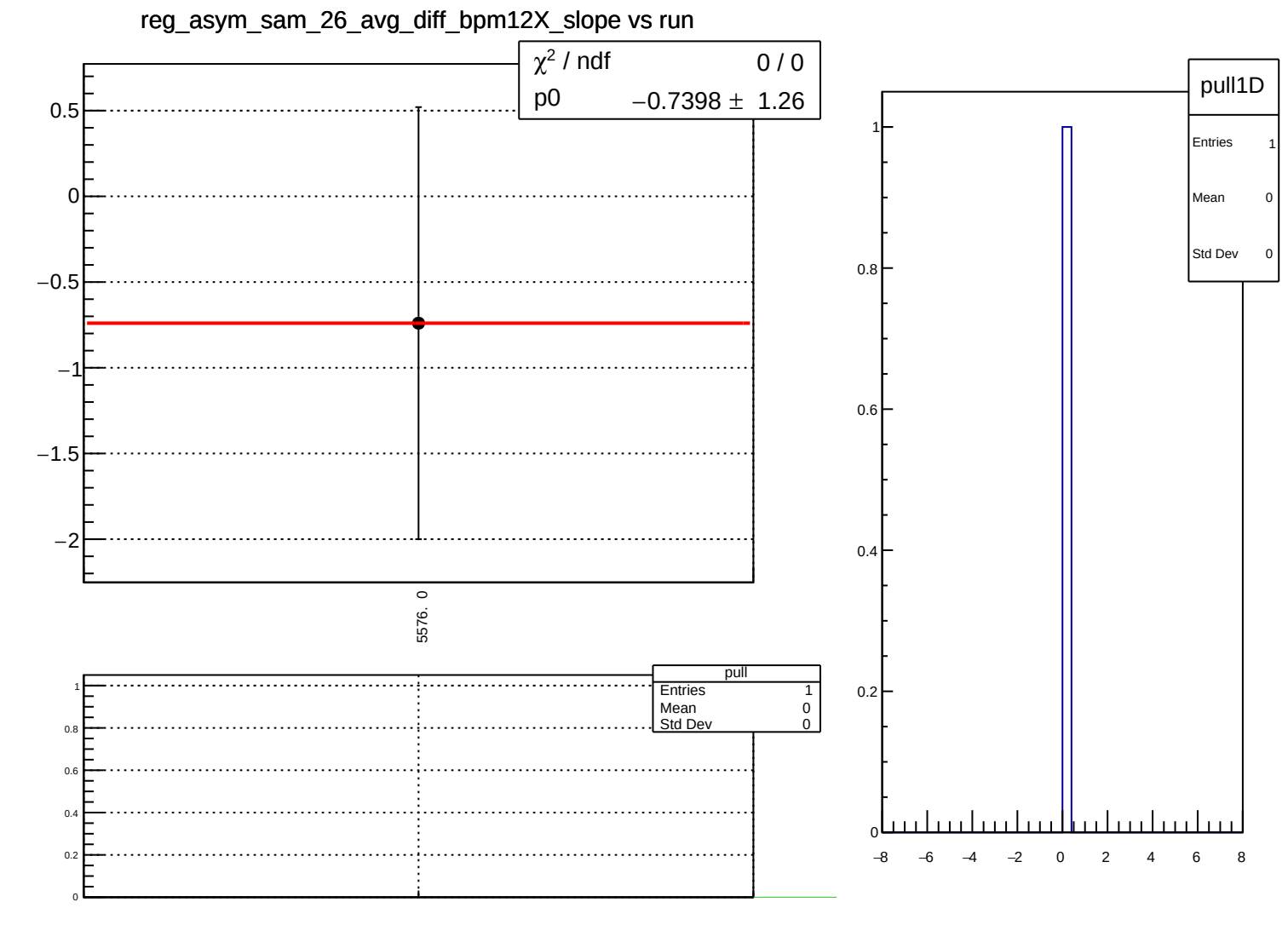

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.202e−31 / 0
p0 −48.51 ± 20.5
−25
−30
−35
−40
−45
−50
−55
−60
−65
−70
5576. 0
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

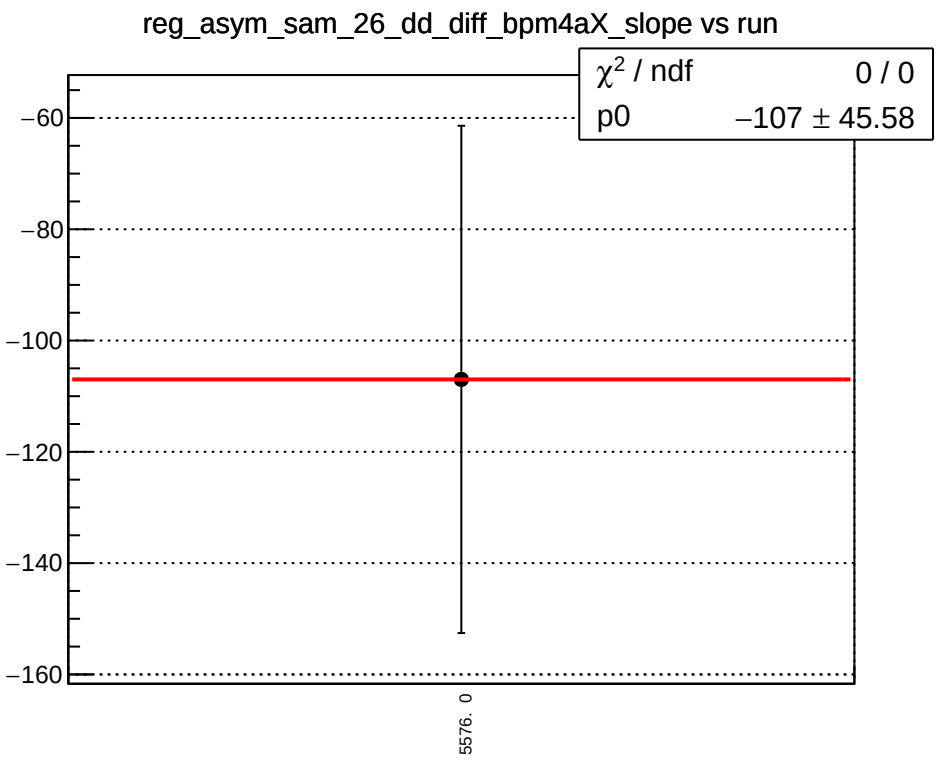

pull1D
Entries 1
Mean 3.466e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

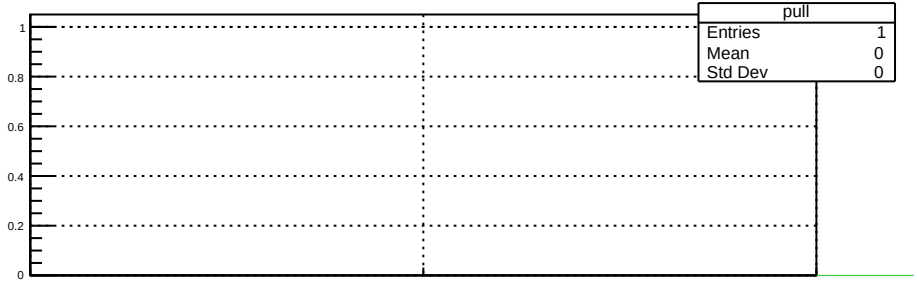

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −68.65 ± 37.17
−30
−40
−50
−60
−70
−80
−90
−100
−110
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

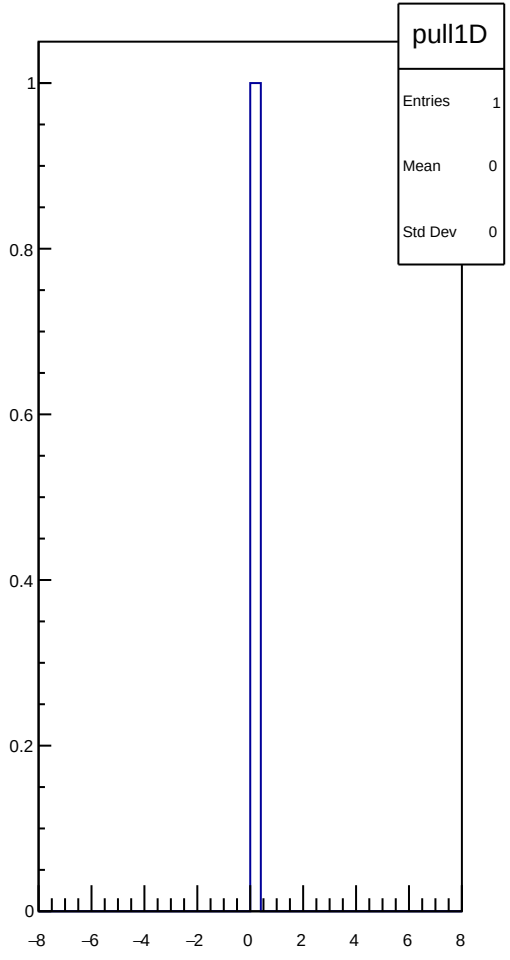

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

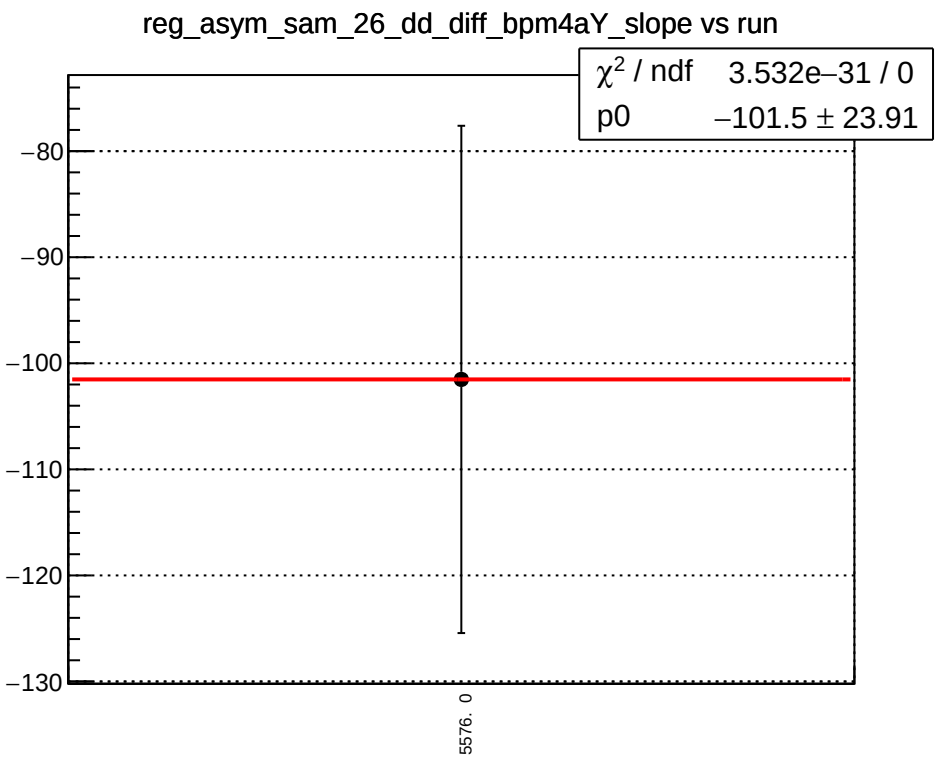

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.77e−32 / 0
p0 −59.87 ± 27.31
−30
−40
−50
−60
−70
−80
−90
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.602e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

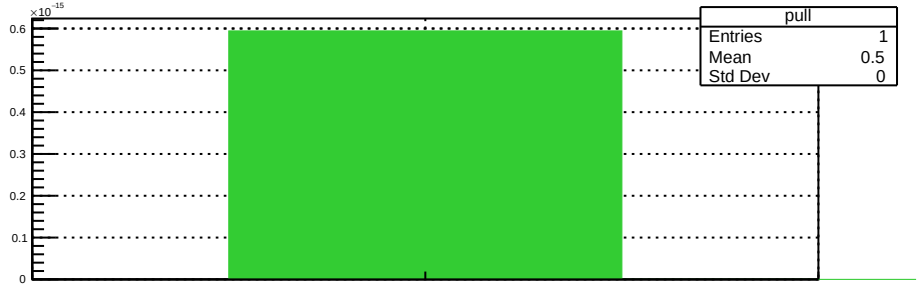

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.7398 ± 1.26
0.5
0
−0.5
−1
−1.5
−2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

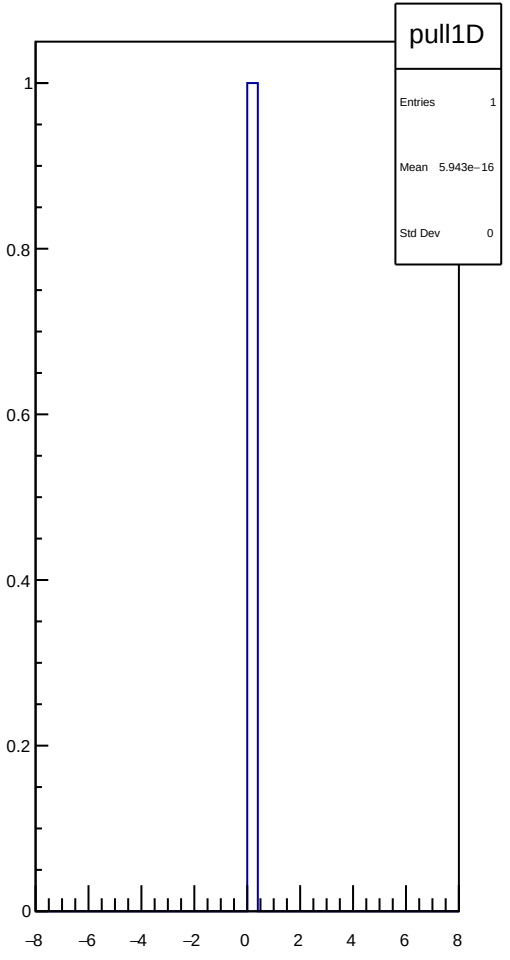

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −107 ± 45.58
−60
−80
−100
−120
−140
−160
5576. 0

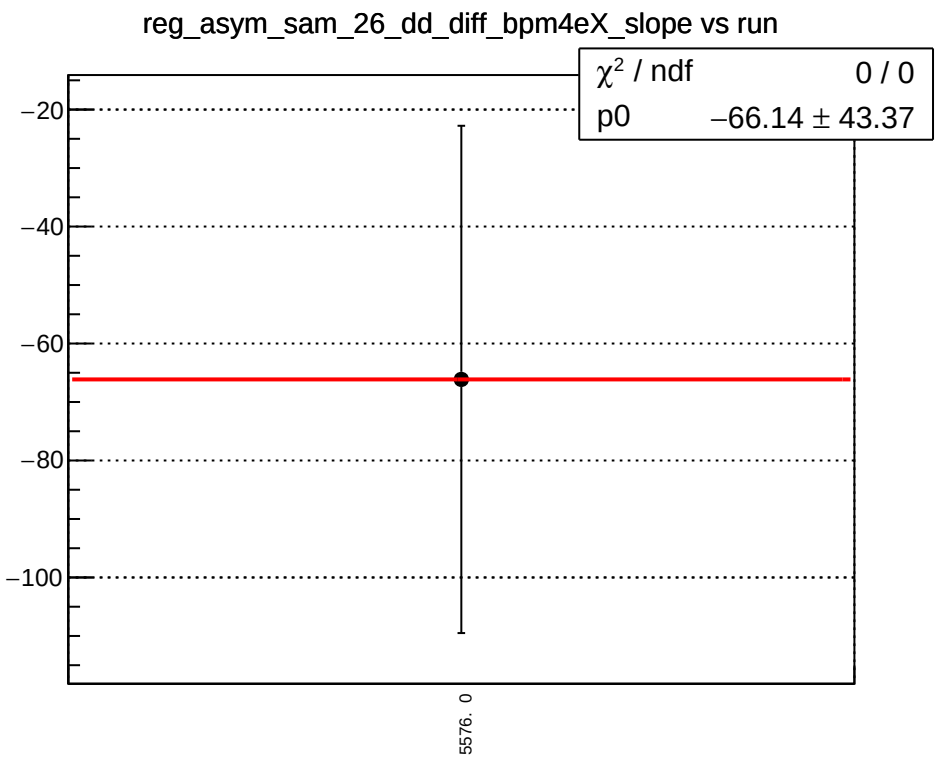

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

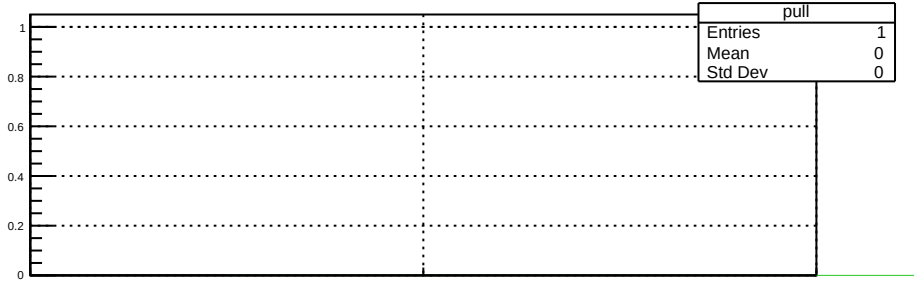

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

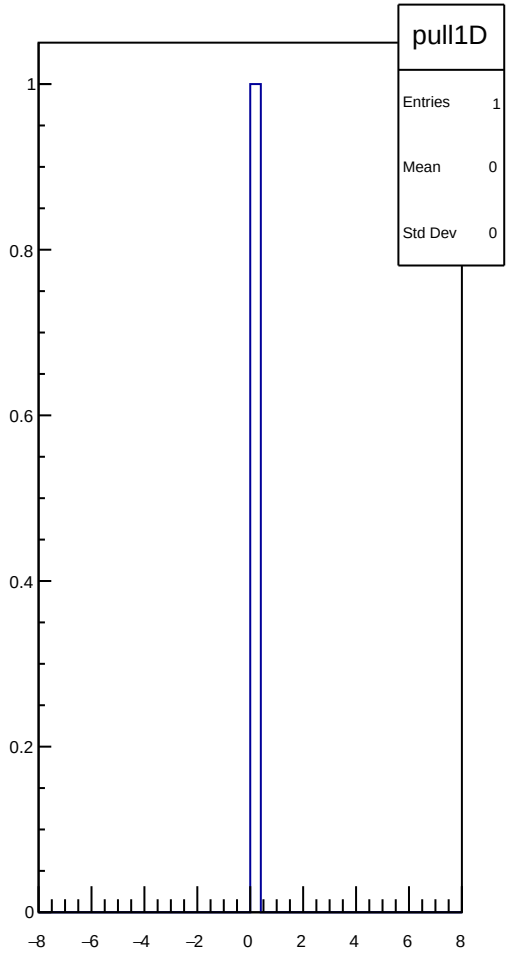

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.532e−31 / 0
p0 −101.5 ± 23.91
−80
−90
−100
−110
−120
−130
5576. 0

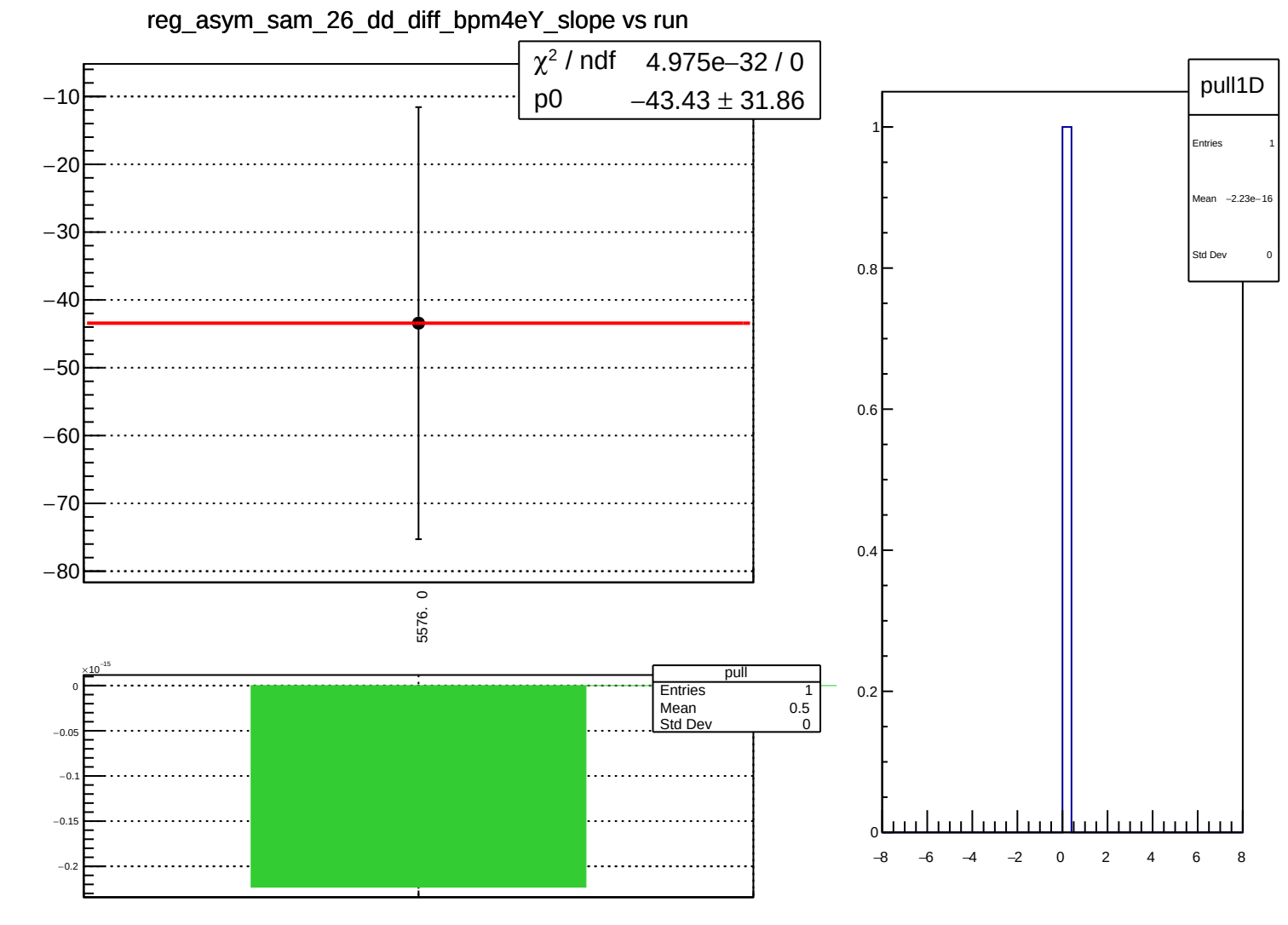

×10⁻¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 1
Mean 0.5
Std Dev 0

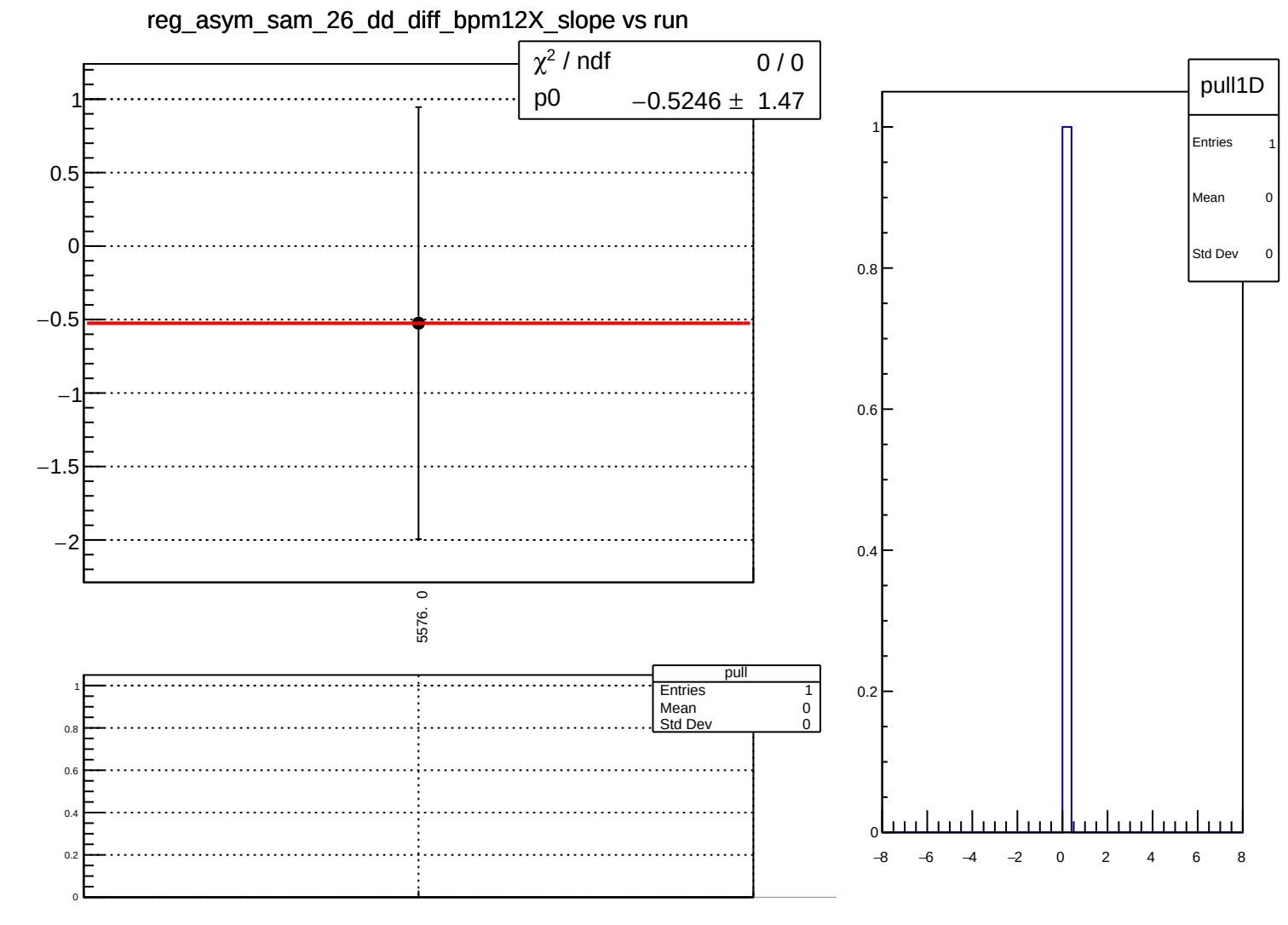

pull1D
Entries 1
Mean 5.943e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

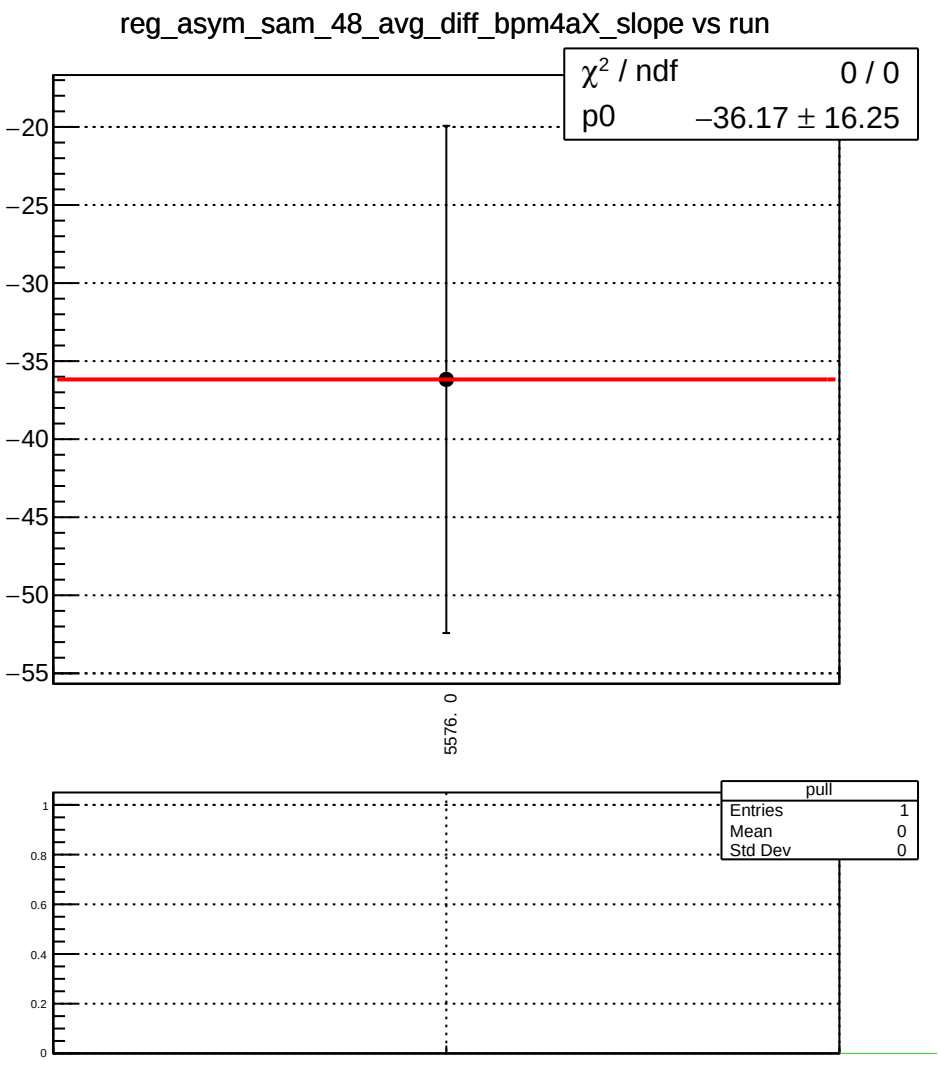

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −66.14 ± 43.37
−20
−40
−60
−80
−100
5576. 0

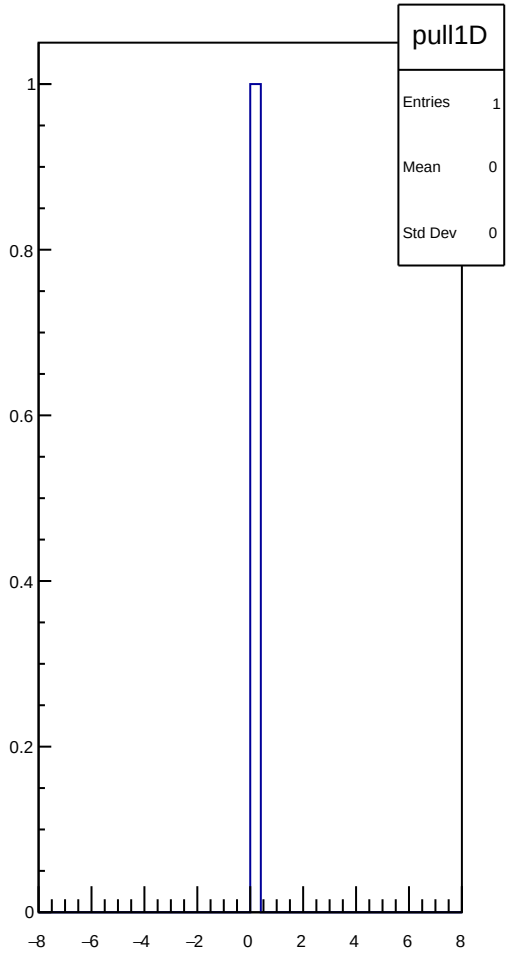

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

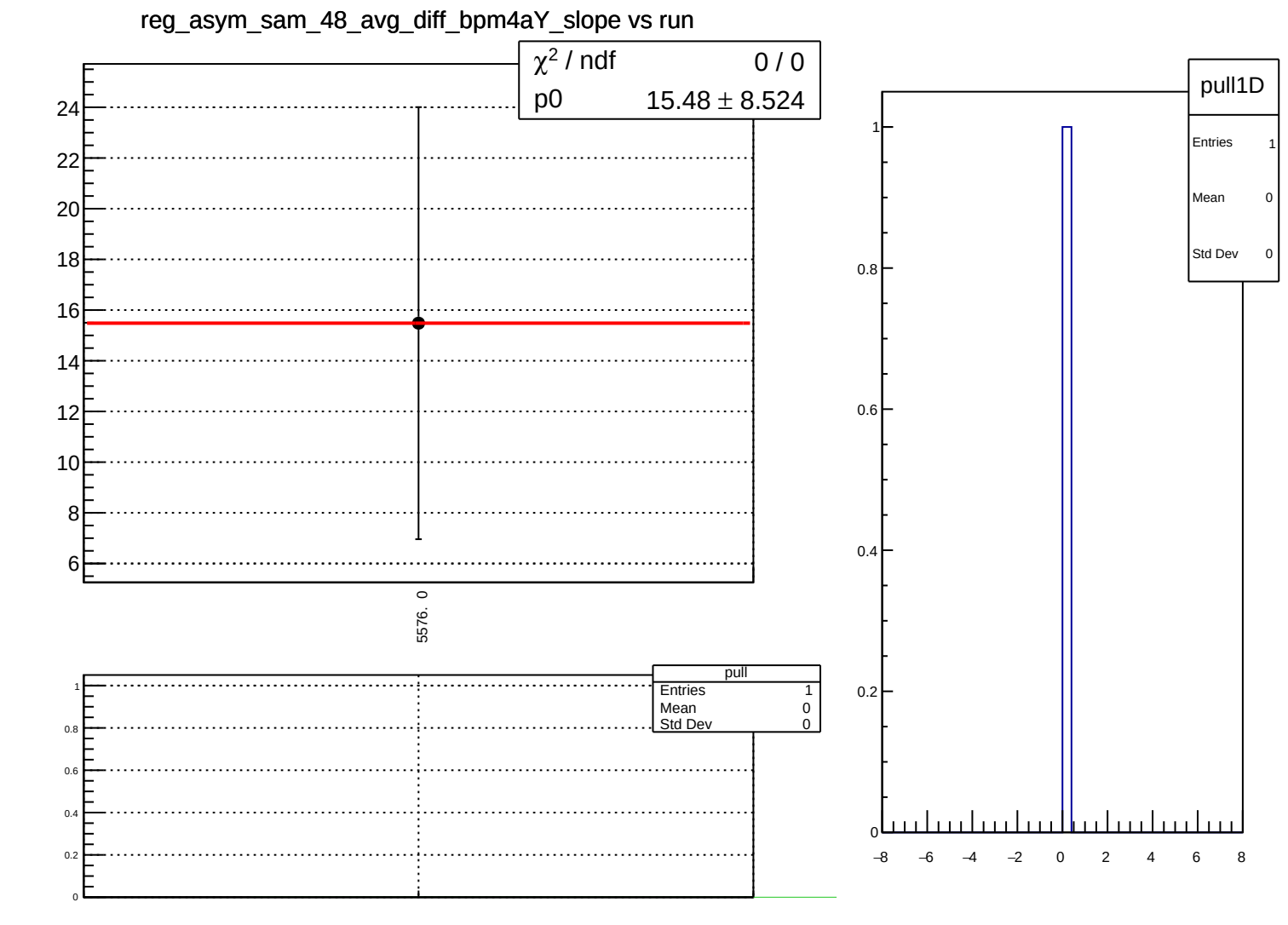

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

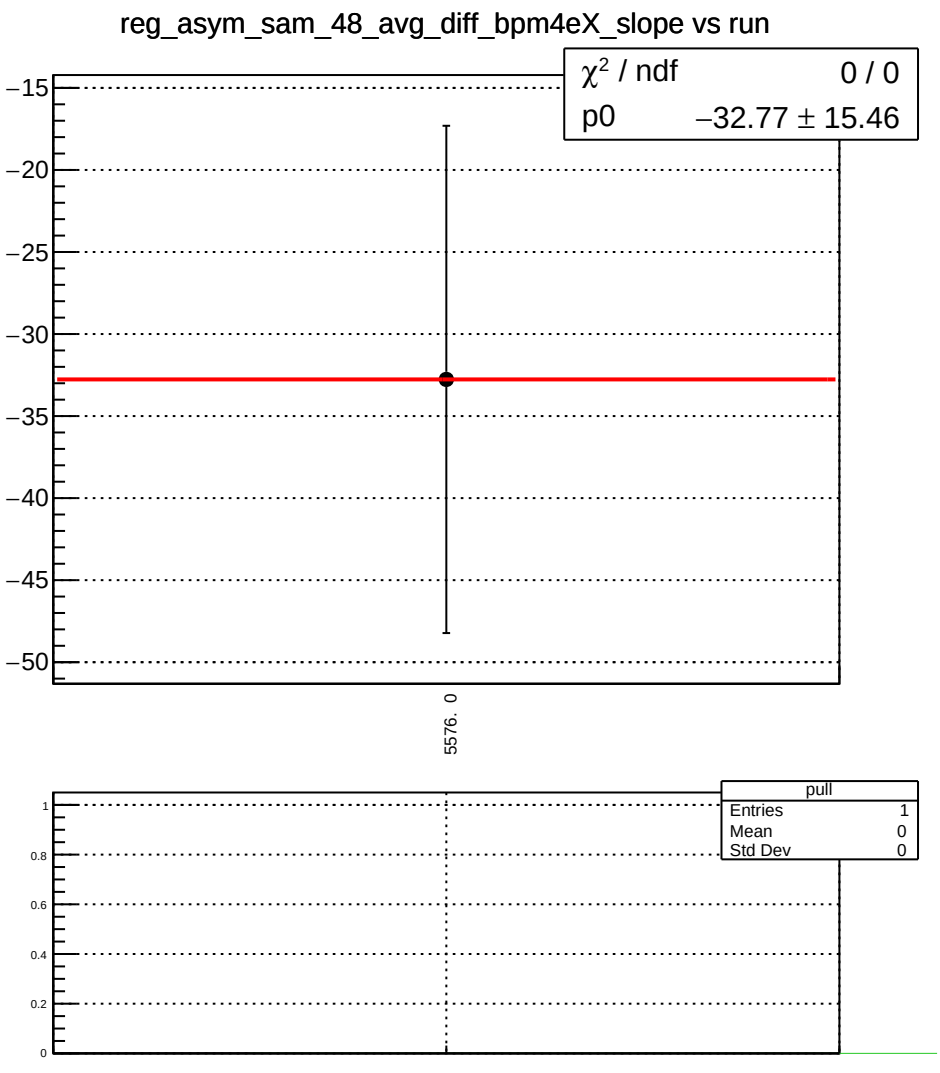

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.975e−32 / 0
p0 −43.43 ± 31.86
−10
−20
−30
−40
−50
−60
−70
−80
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.23e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

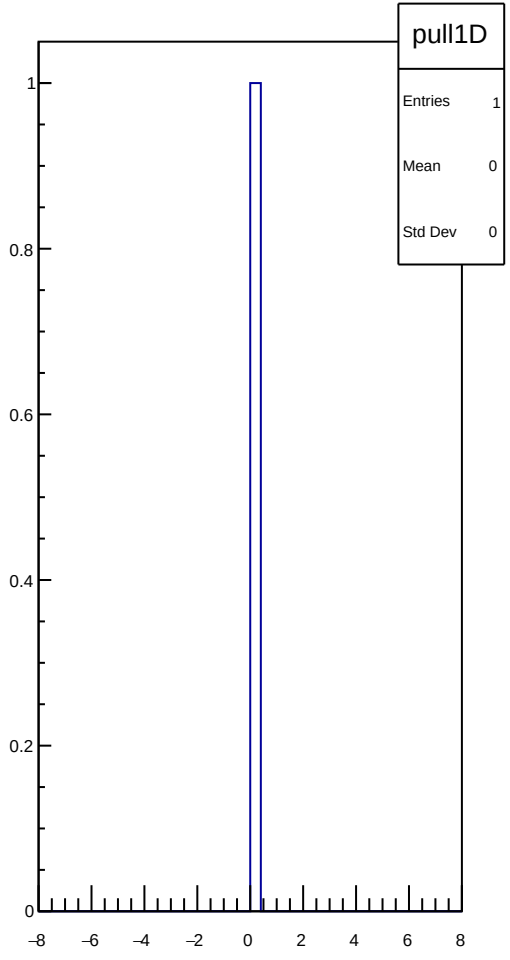

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.5246 ± 1.47
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

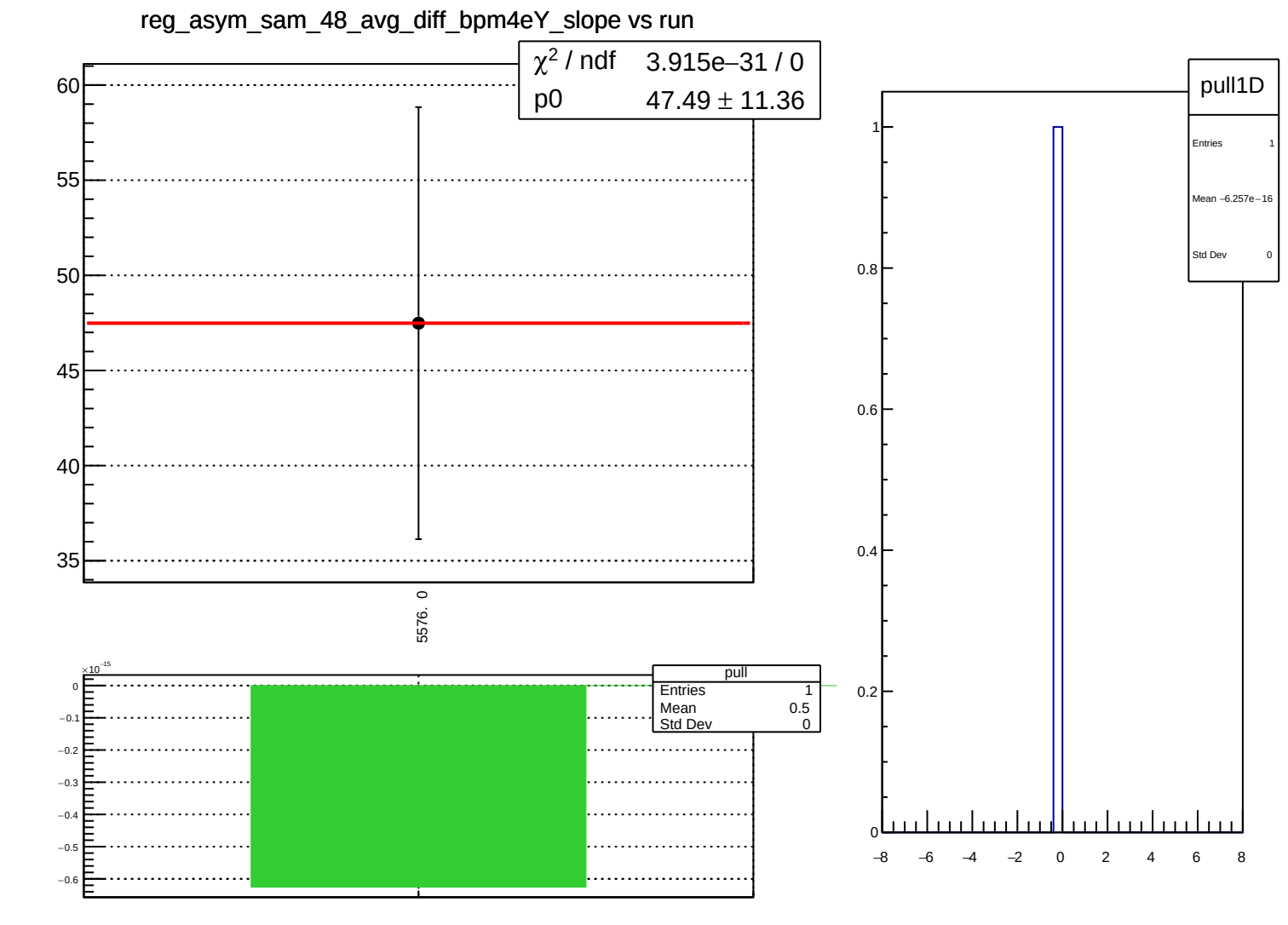

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −36.17 ± 16.25
−20
−25
−30
−35
−40
−45
−50
−55
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

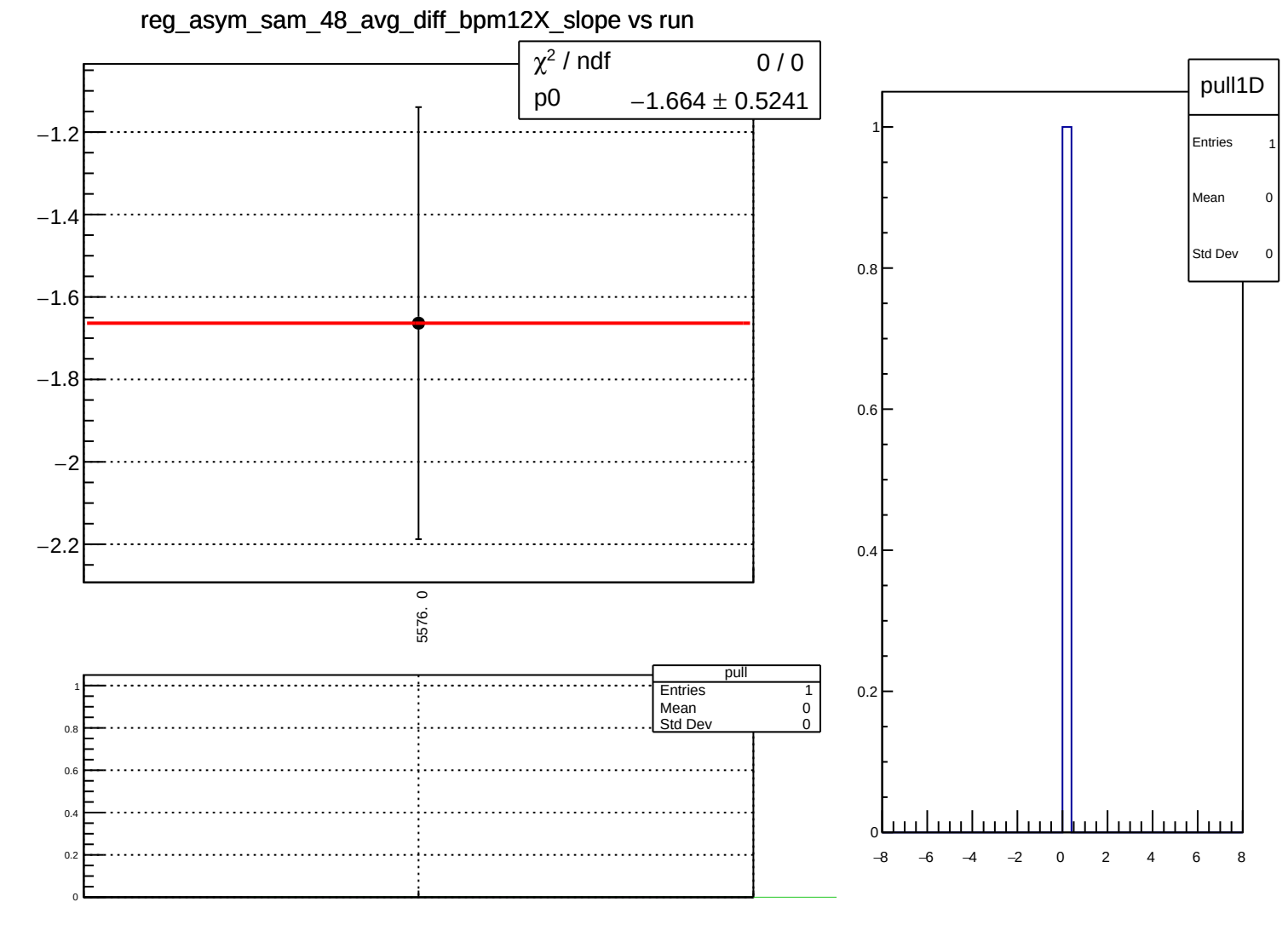

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

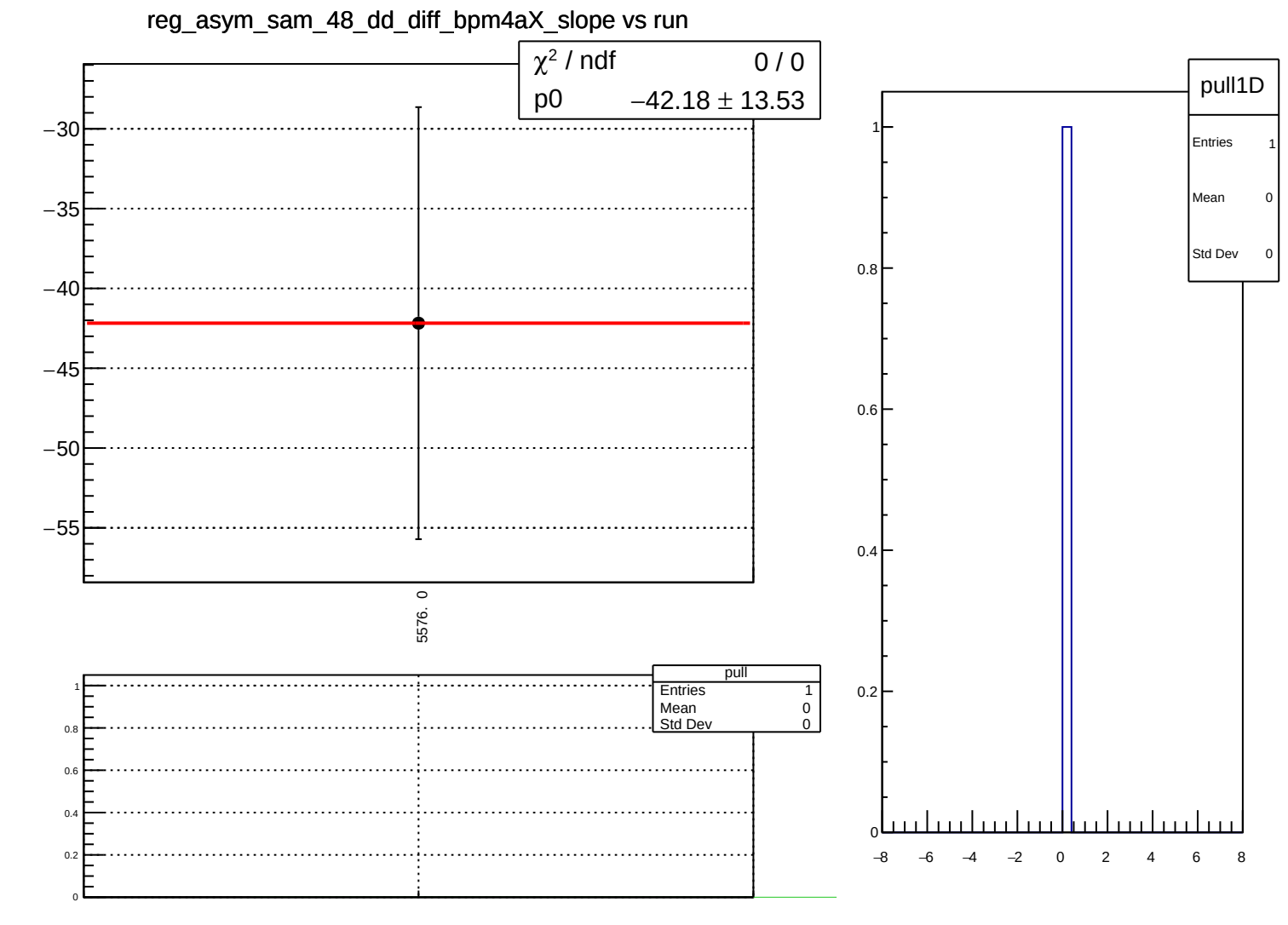

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 15.48 ± 8.524
24
22
20
18
16
14
12
10
8
6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

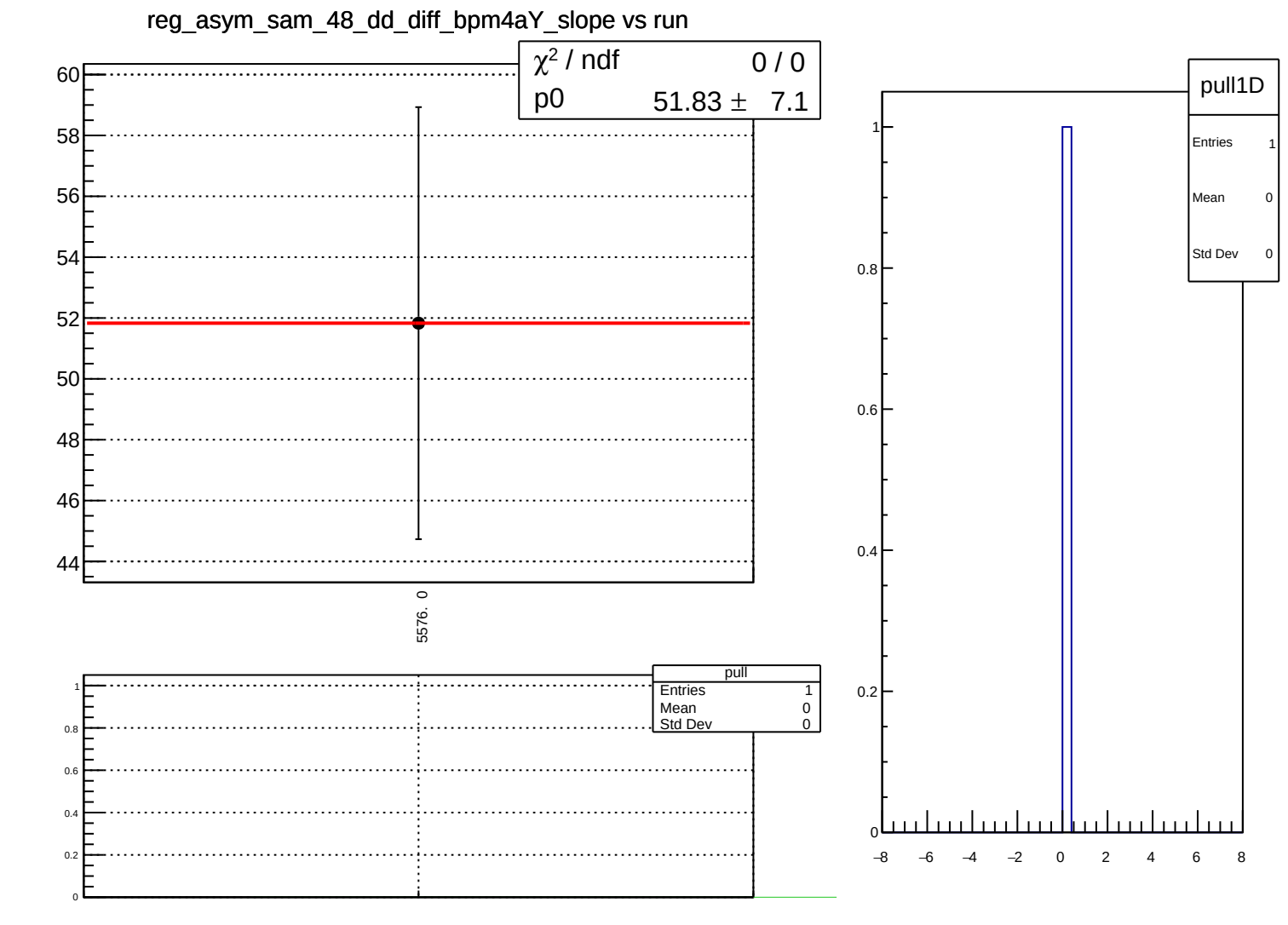

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −32.77 ± 15.46
−15
−20
−25
−30
−35
−40
−45
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

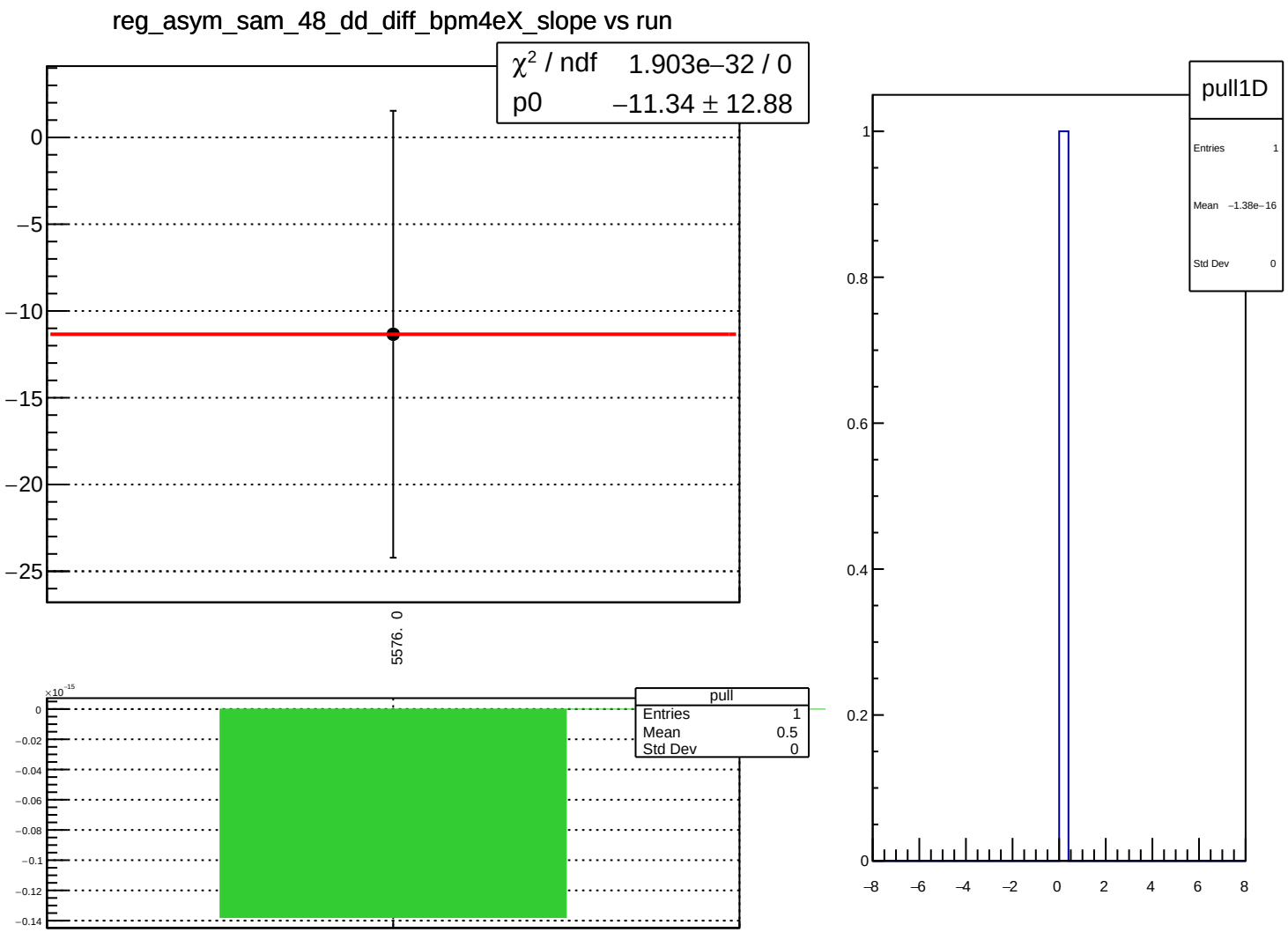

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

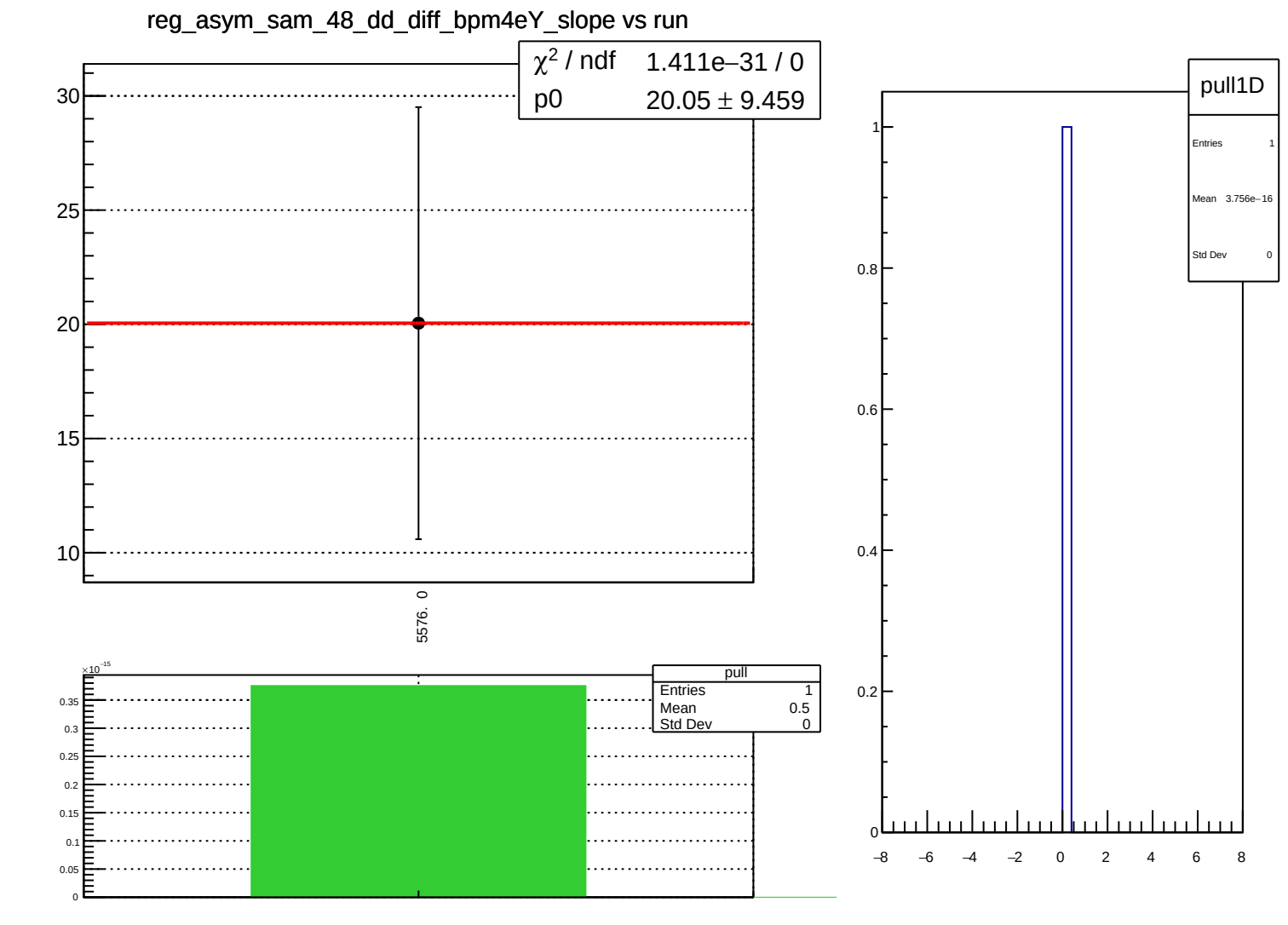

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.915e−31 / 0
p0 47.49 ± 11.36
60
55
50
45
40
35
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.257e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

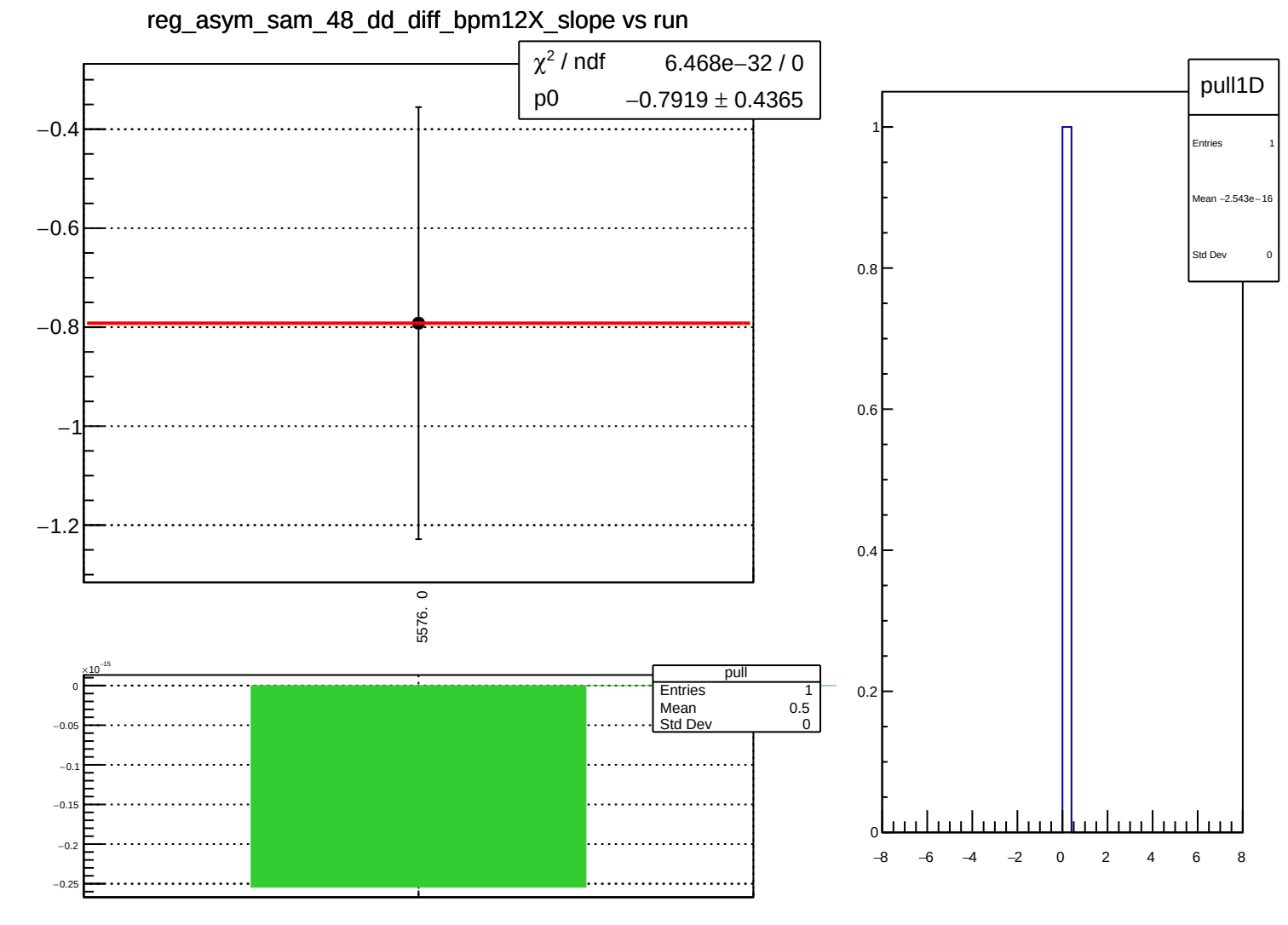

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −1.664 ± 0.5241
−1.2
−1.4
−1.6
−1.8
−2
−2.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

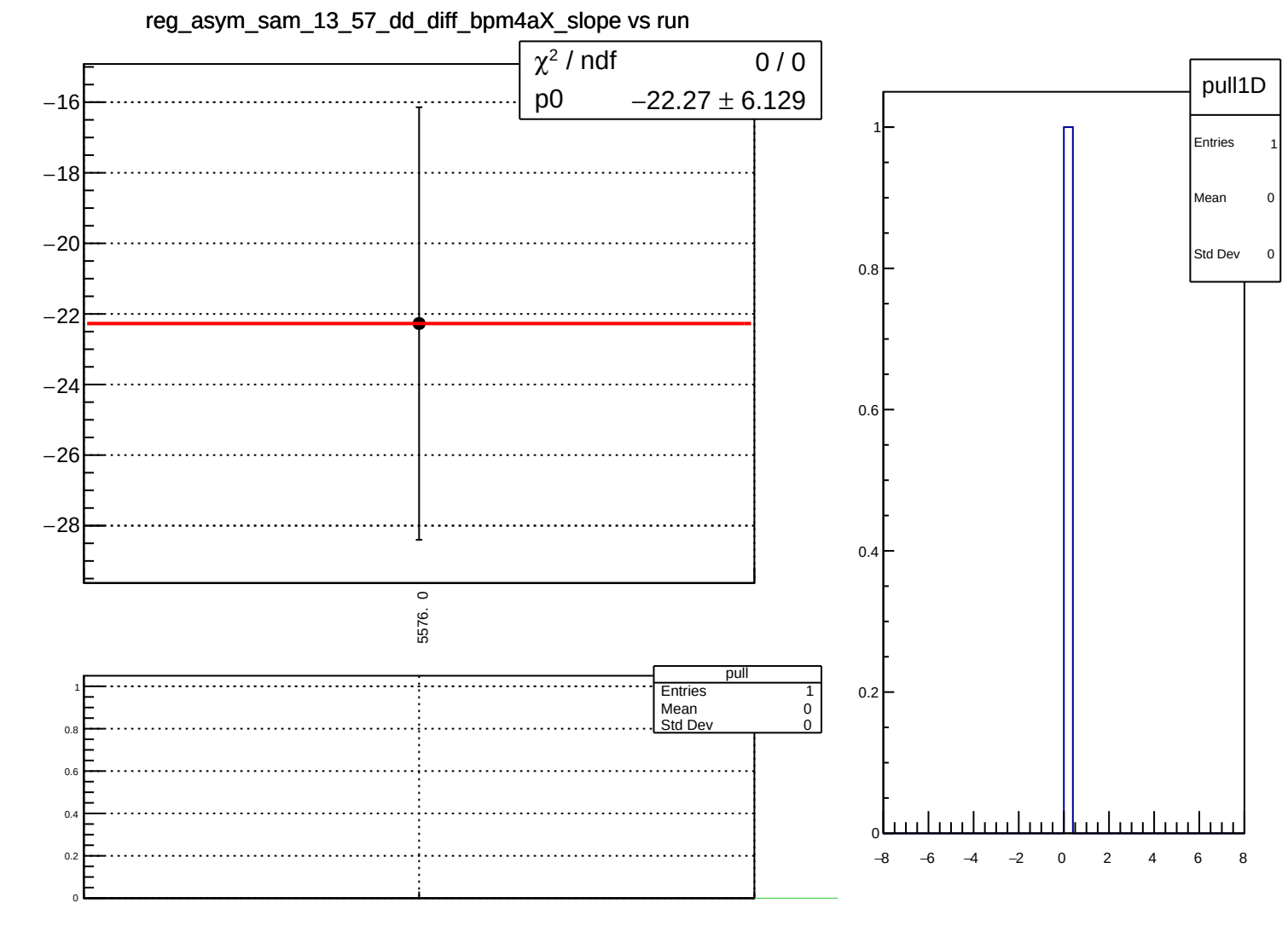

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −42.18 ± 13.53
−30
−35
−40
−45
−50
−55
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

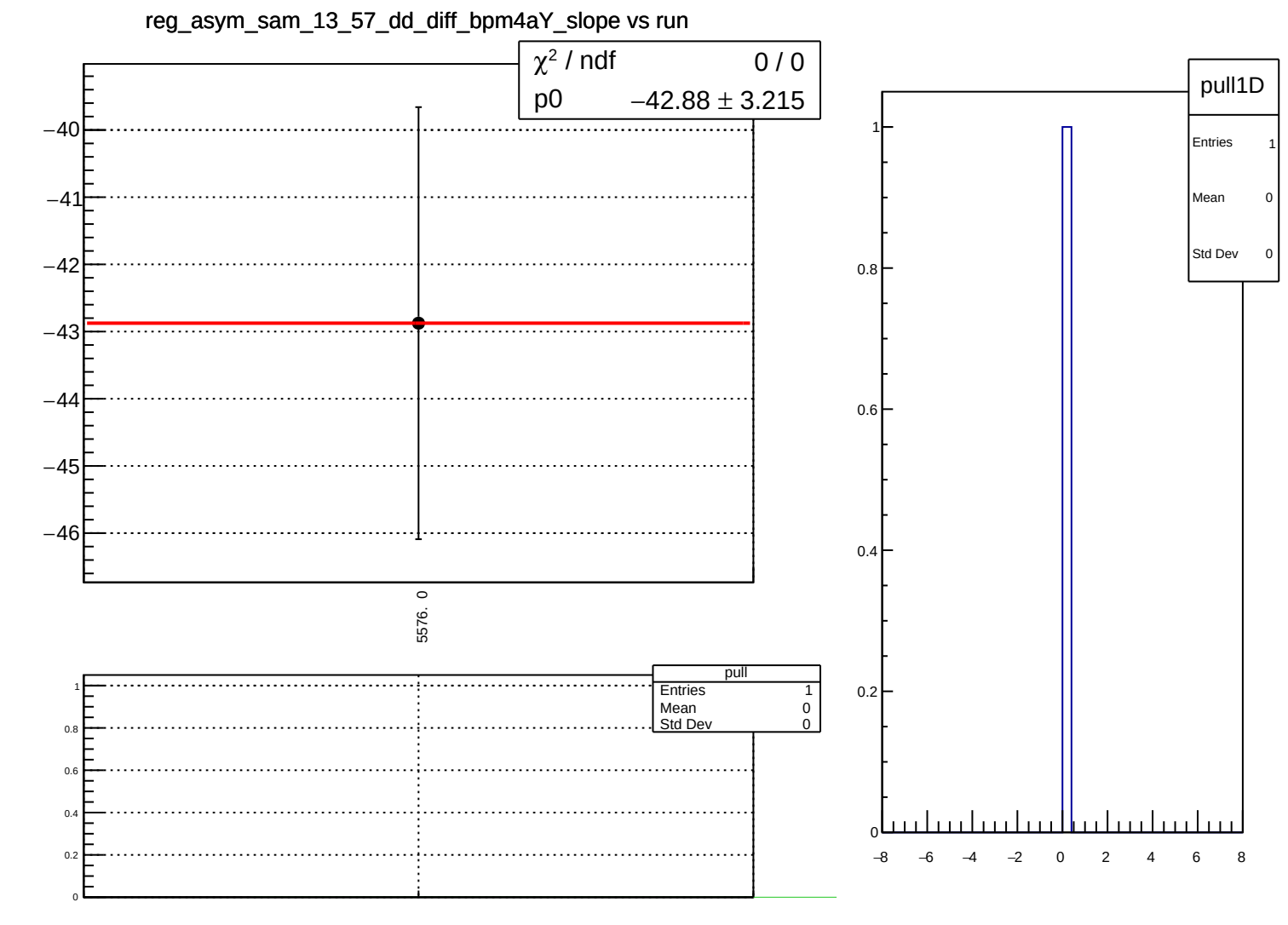

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 51.83 ± 7.1
60
58
56
54
52
50
48
46
44
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

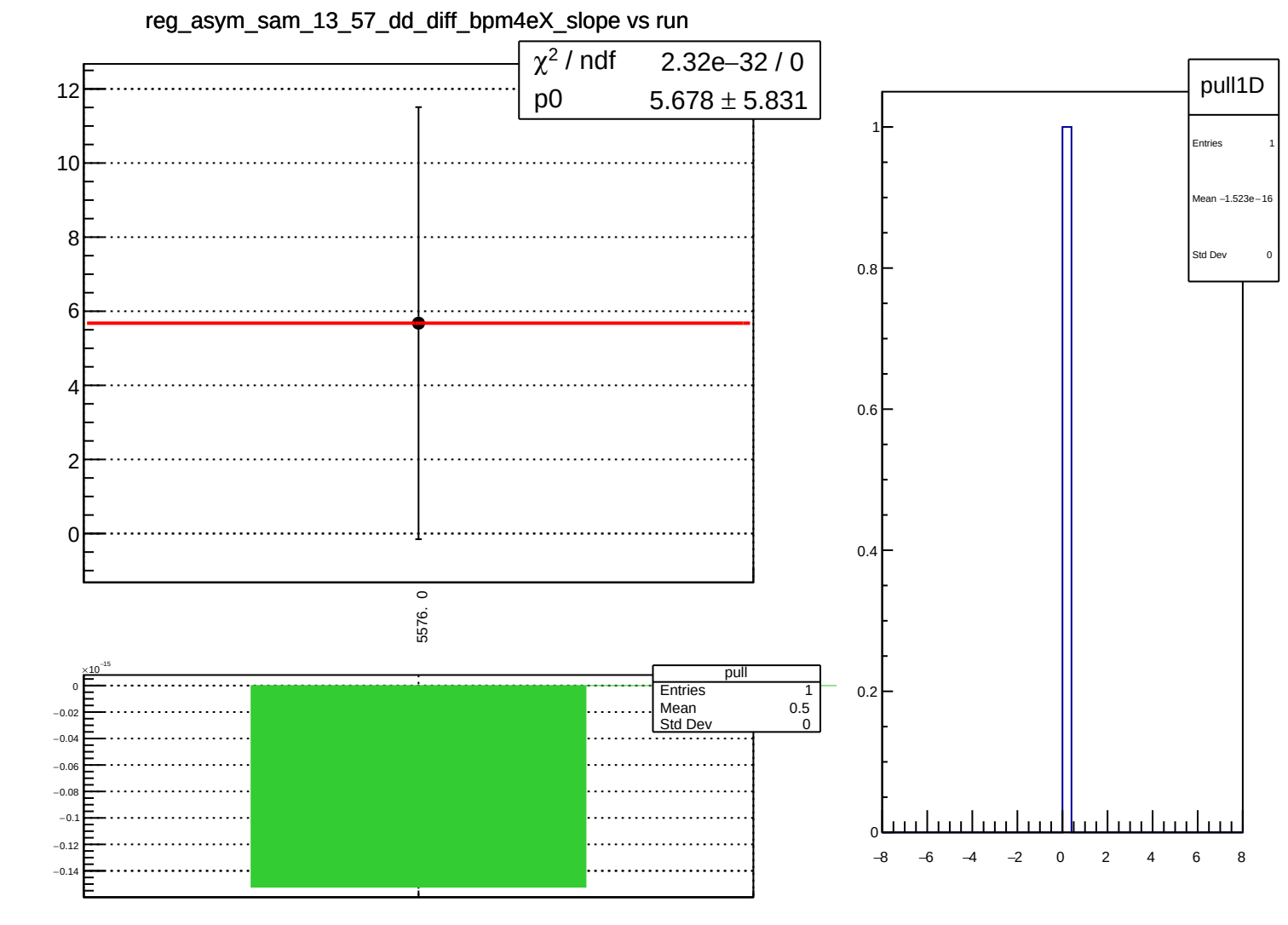

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.903e−32 / 0
p0 −11.34 ± 12.88
0
−5
−10
−15
−20
−25
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.38e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

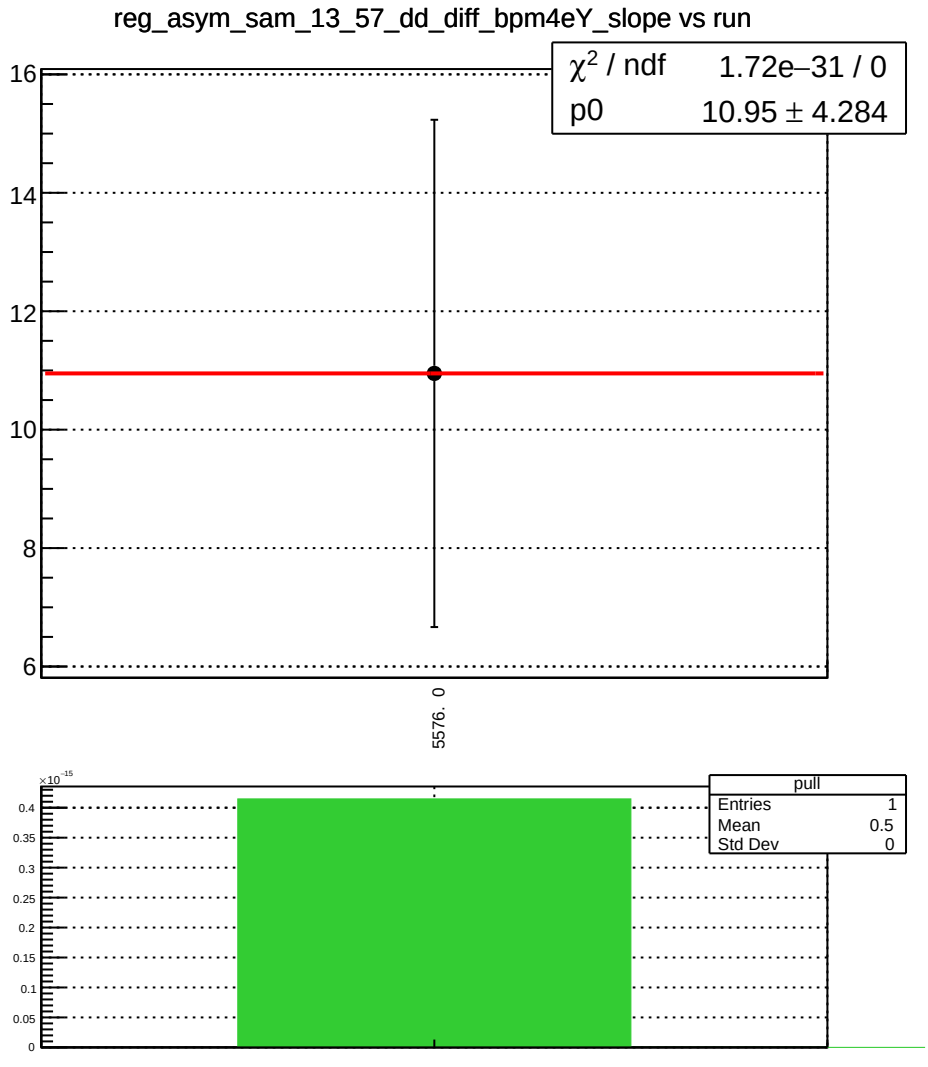

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.411e−31 / 0
p0 20.05 ± 9.459
30
25
20
15
10
5576. 0
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 3.756e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

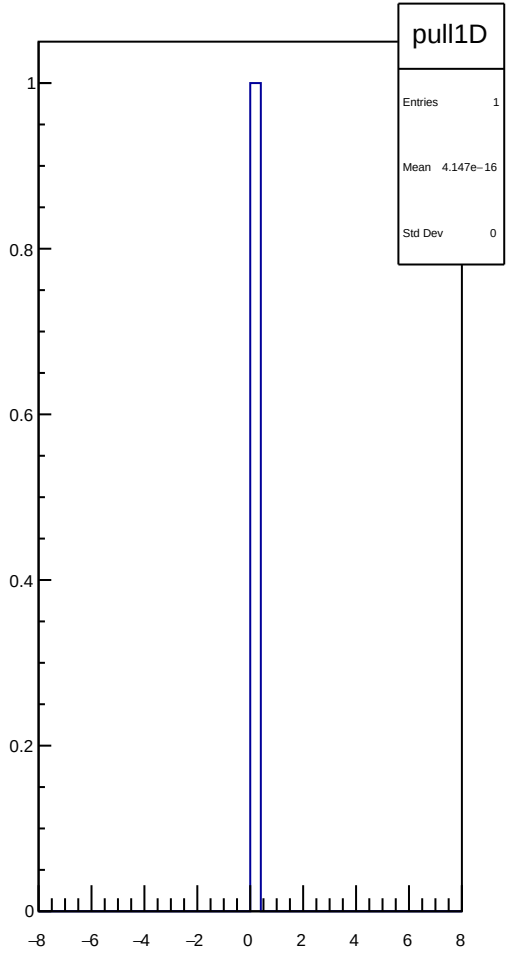

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.468e−32 / 0
p0 −0.7919 ± 0.4365
−0.4
−0.6
−0.8
−1
−1.2
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.543e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

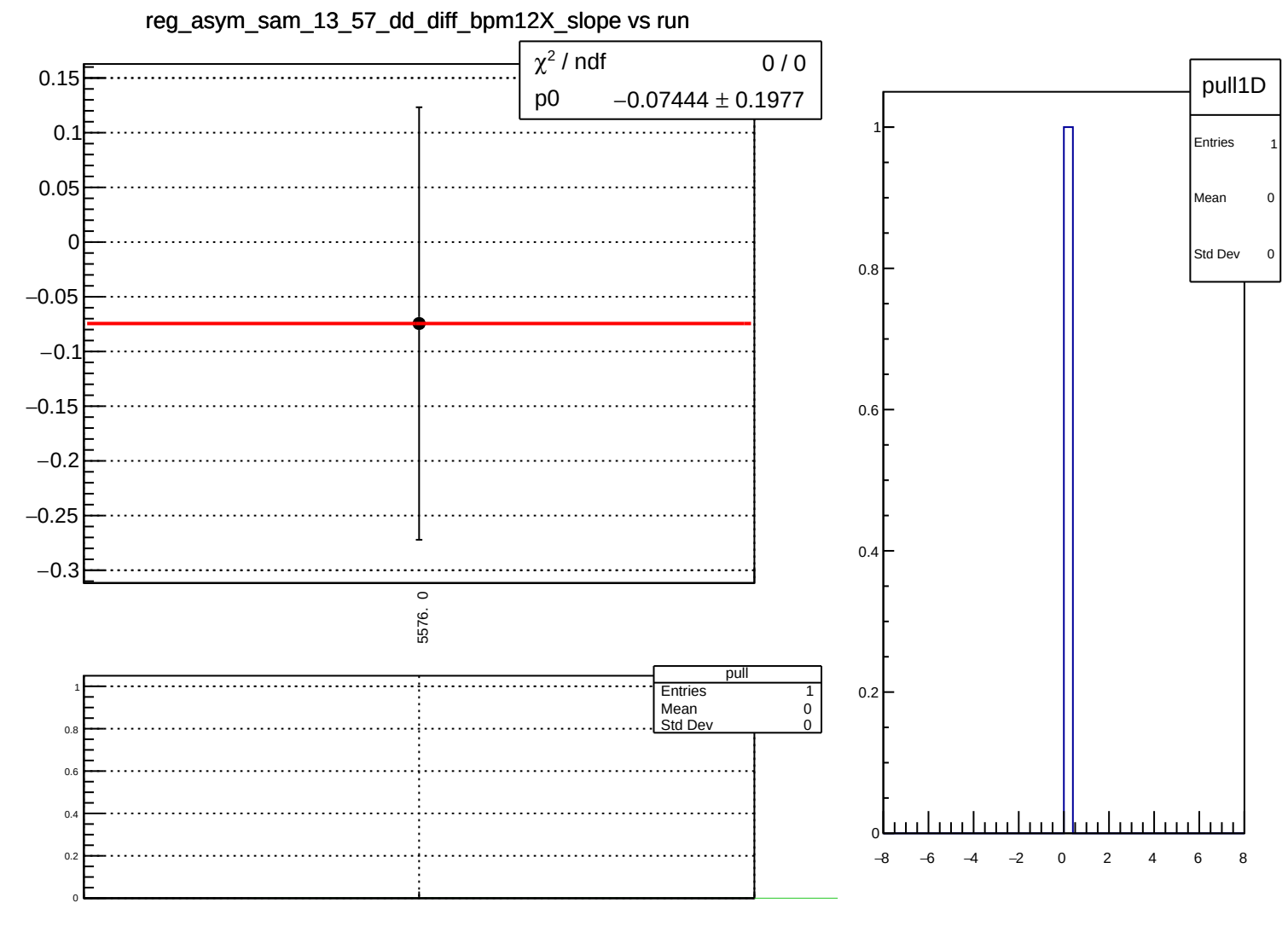

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −22.27 ± 6.129
−16
−18
−20
−22
−24
−26
−28
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

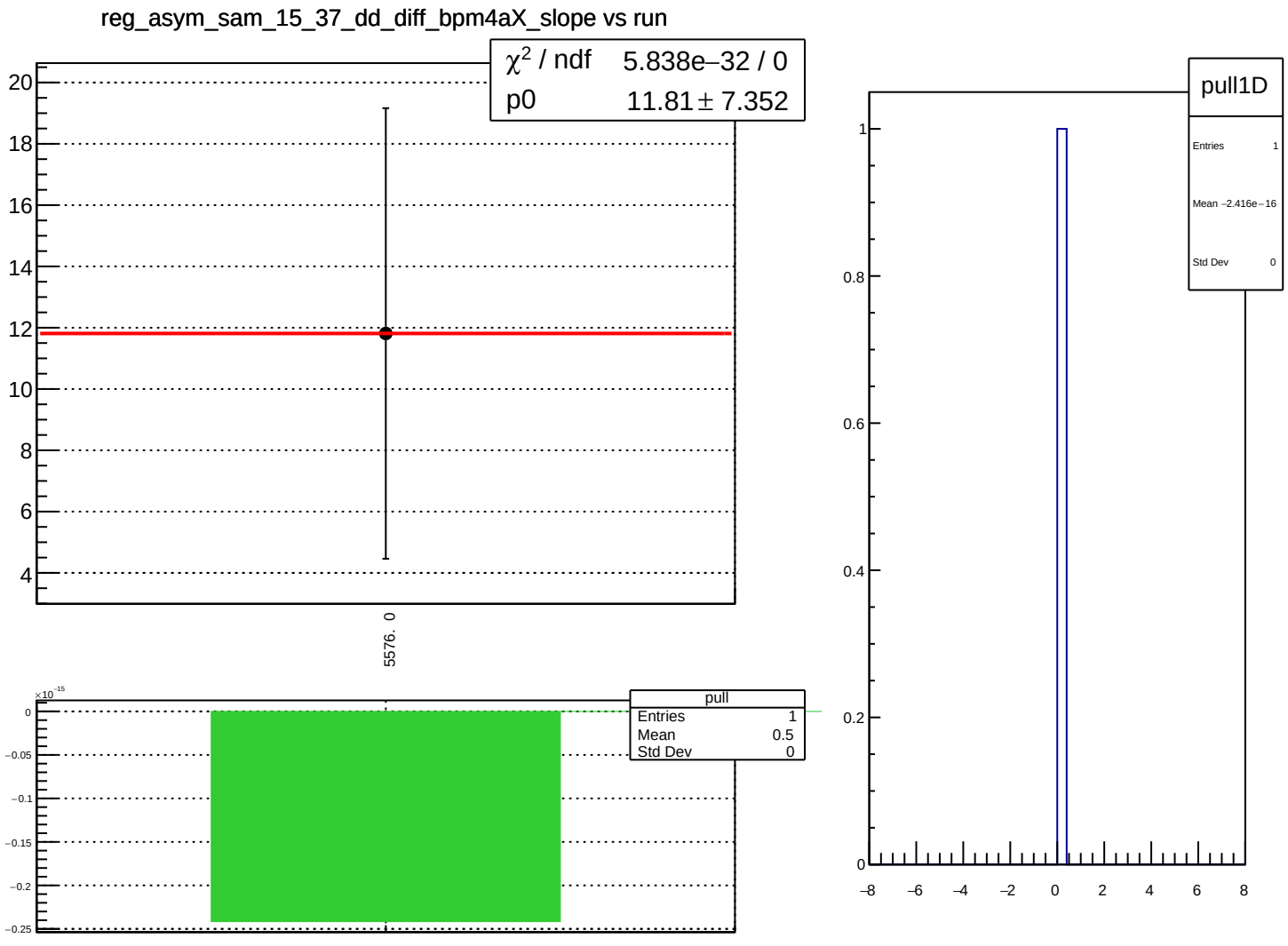

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −42.88 ± 3.215
−40
−41
−42
−43
−44
−45
−46
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

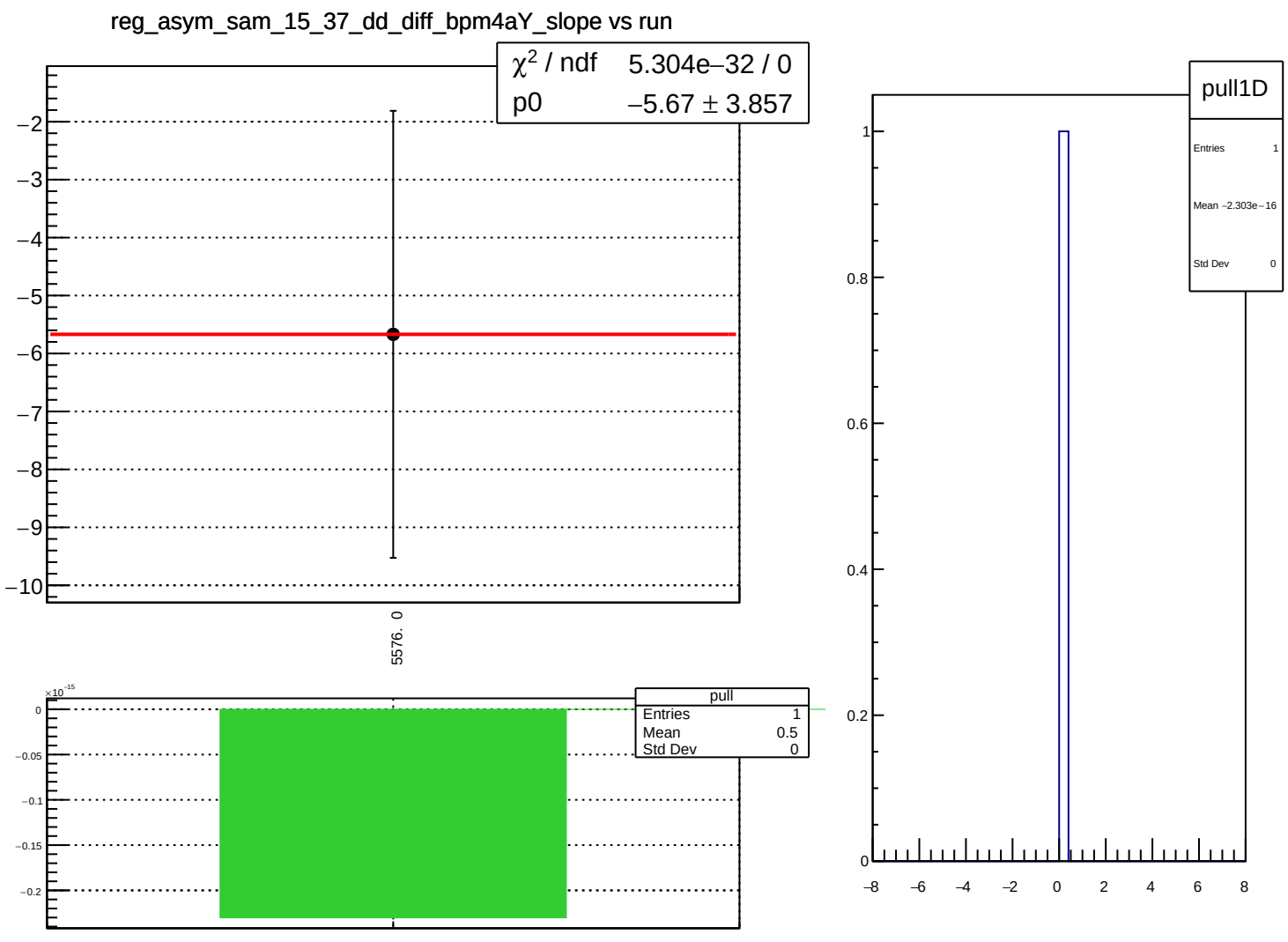

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.32e−32 / 0
p0 5.678 ± 5.831
12
10
8
6
4
2
0
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.523e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

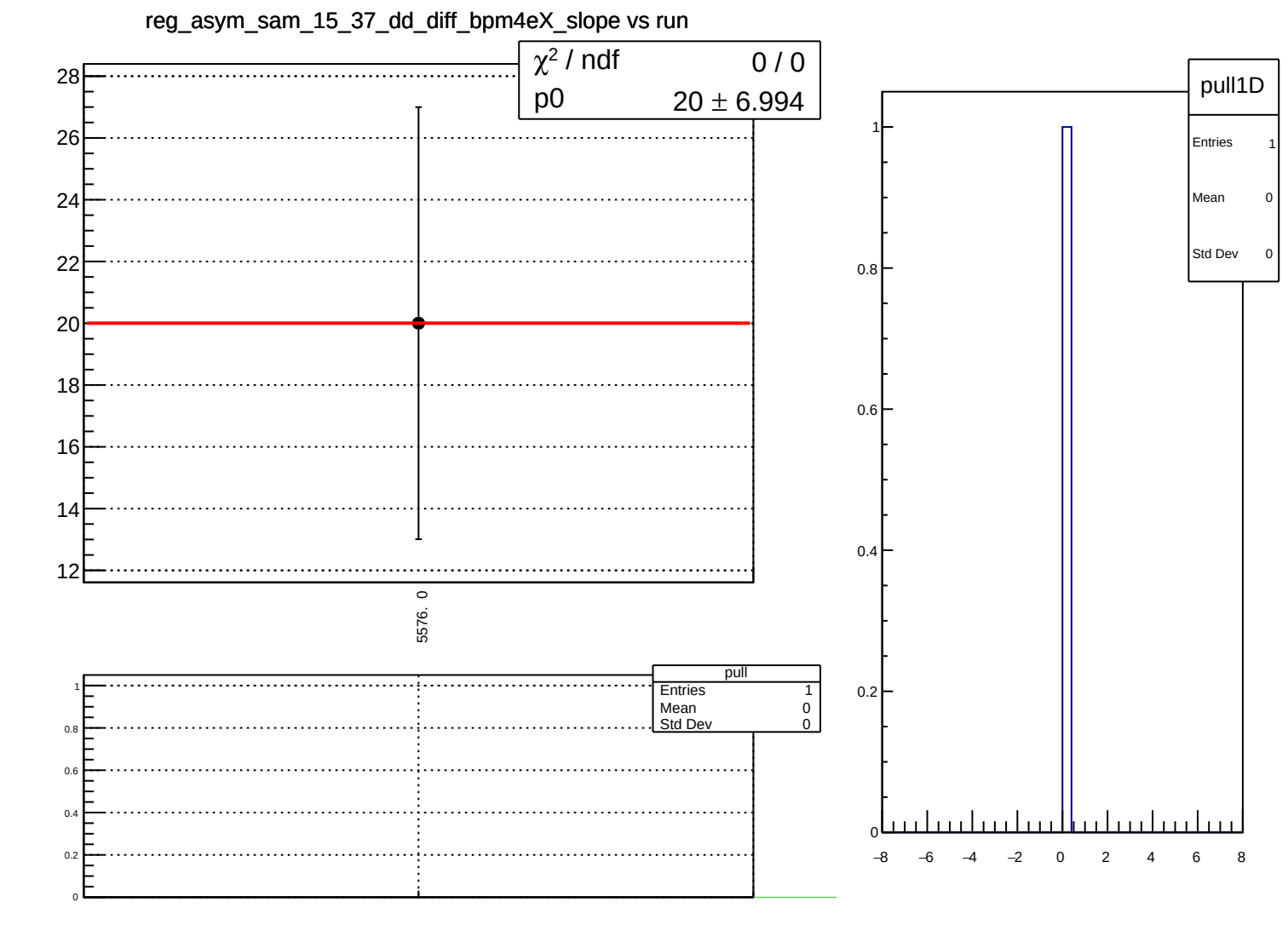

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.72e−31 / 0
p0 10.95 ± 4.284
16
14
12
10
8
6
5576. 0
×10⁻¹⁵
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

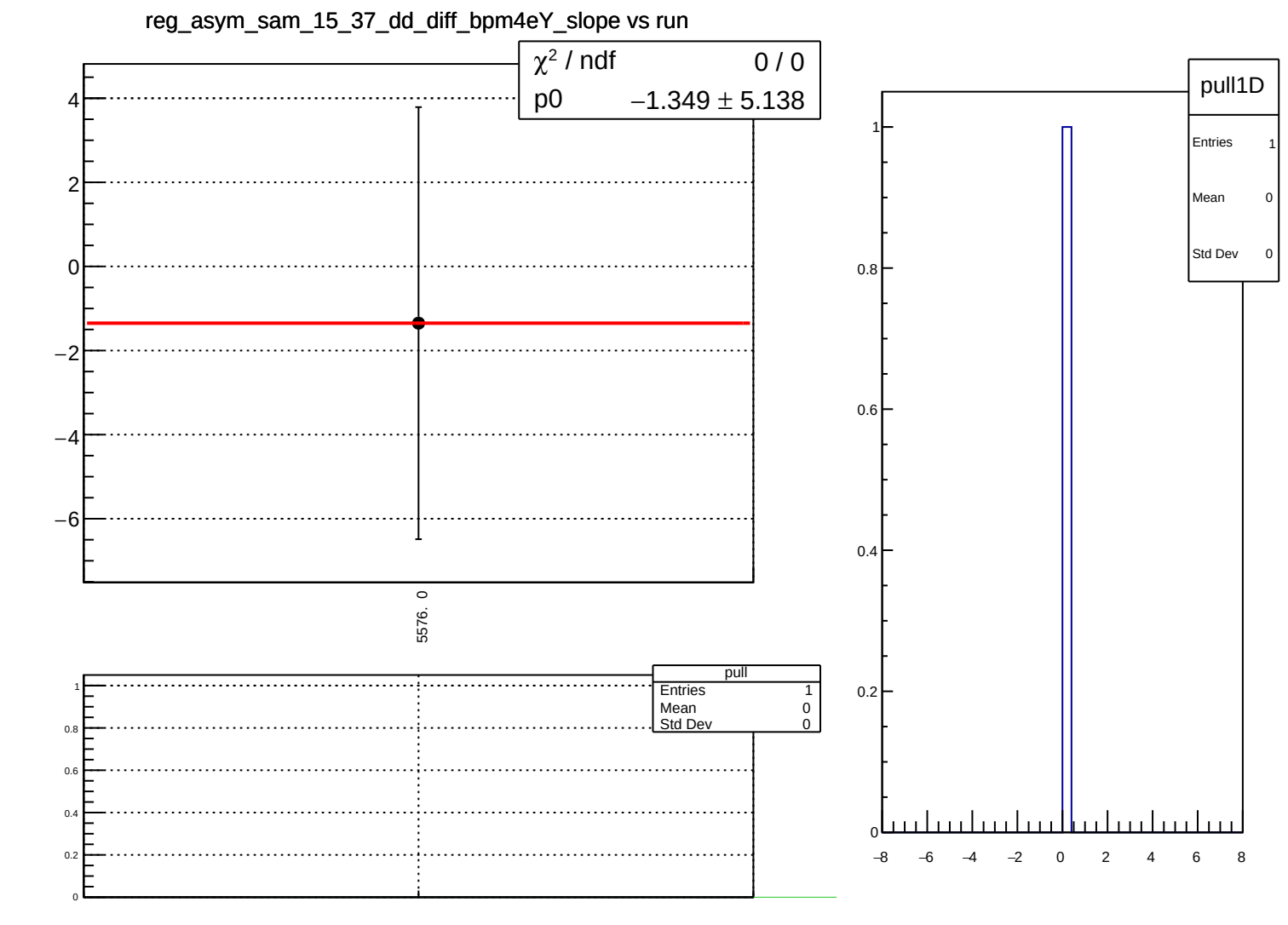

pull1D
Entries 1
Mean 4.147e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

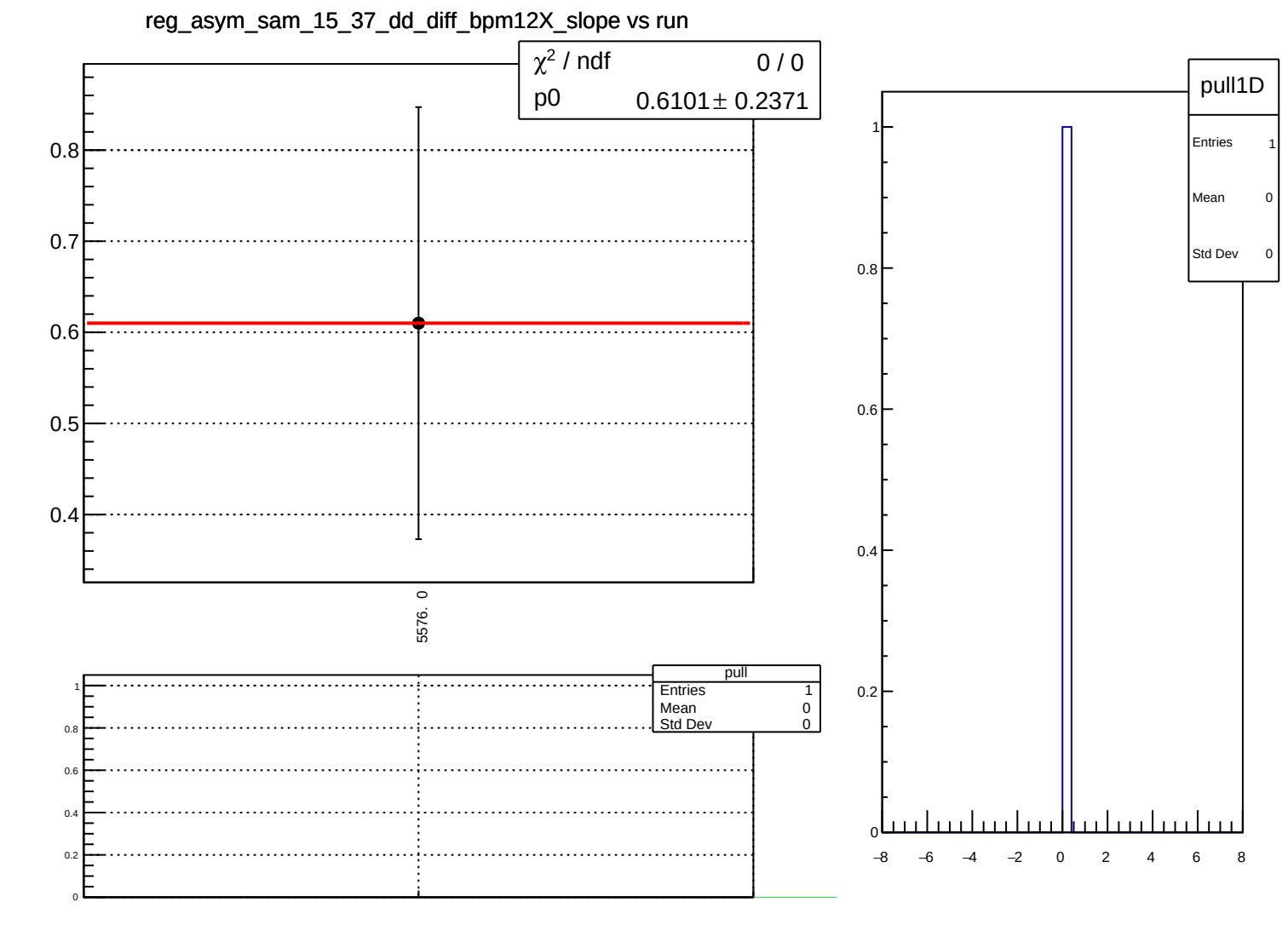

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.07444 ± 0.1977
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

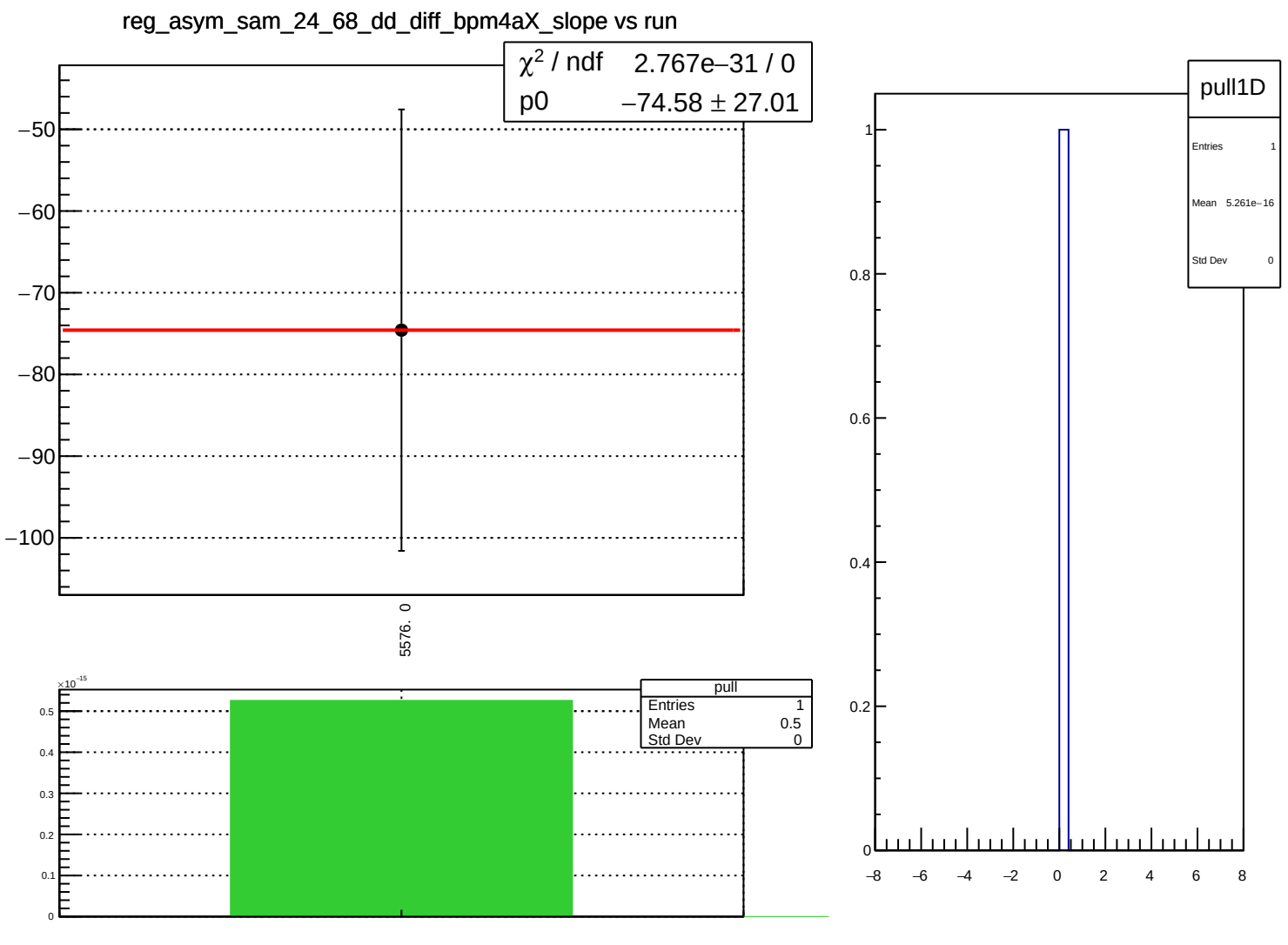

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.838e−32 / 0
p0 11.81 ± 7.352
20
18
16
14
12
10
8
6
4
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.416e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

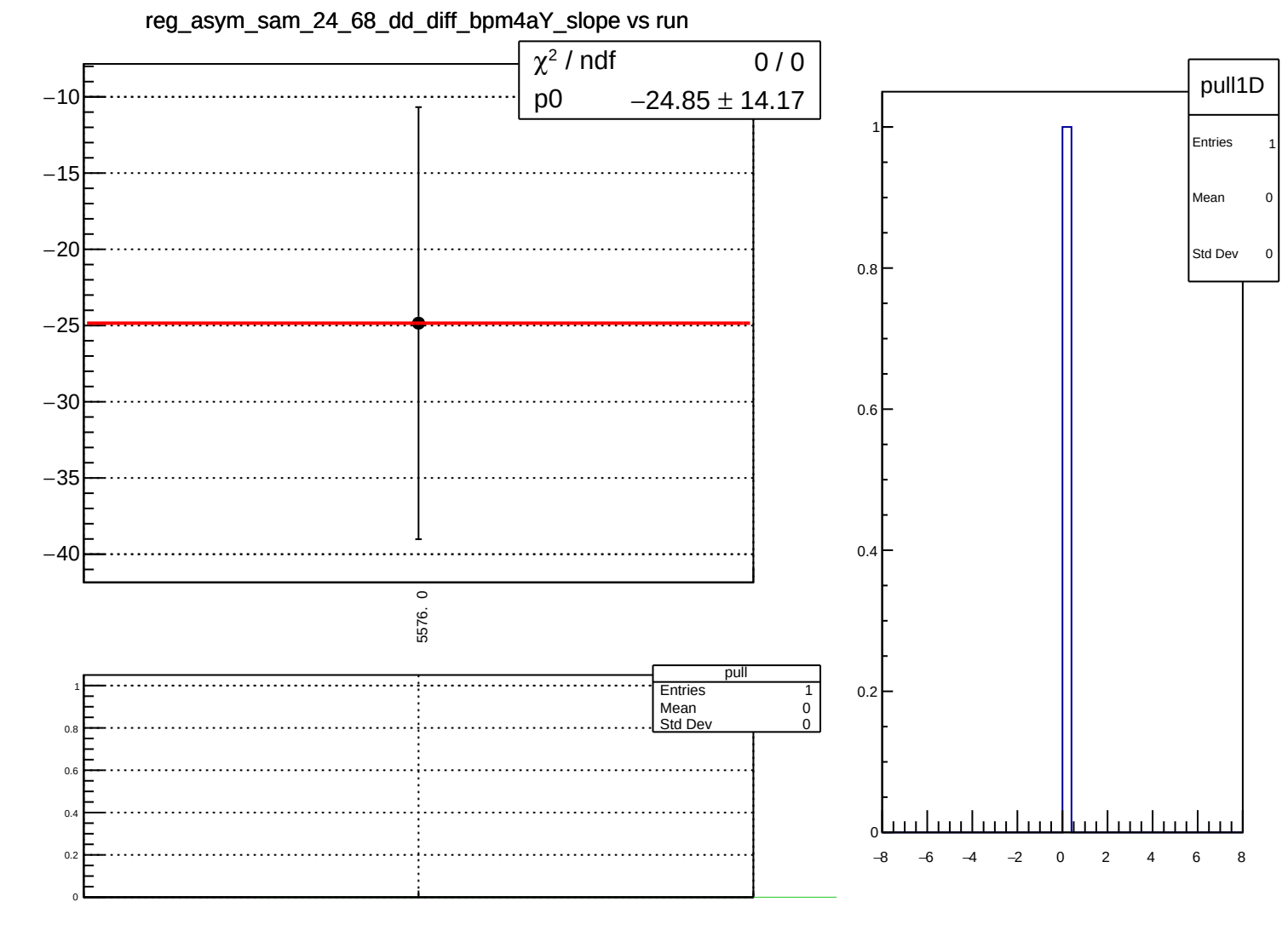

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.304e−32 / 0
p0 −5.67 ± 3.857
−2
−3
−4
−5
−6
−7
−8
−9
−10
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.303e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

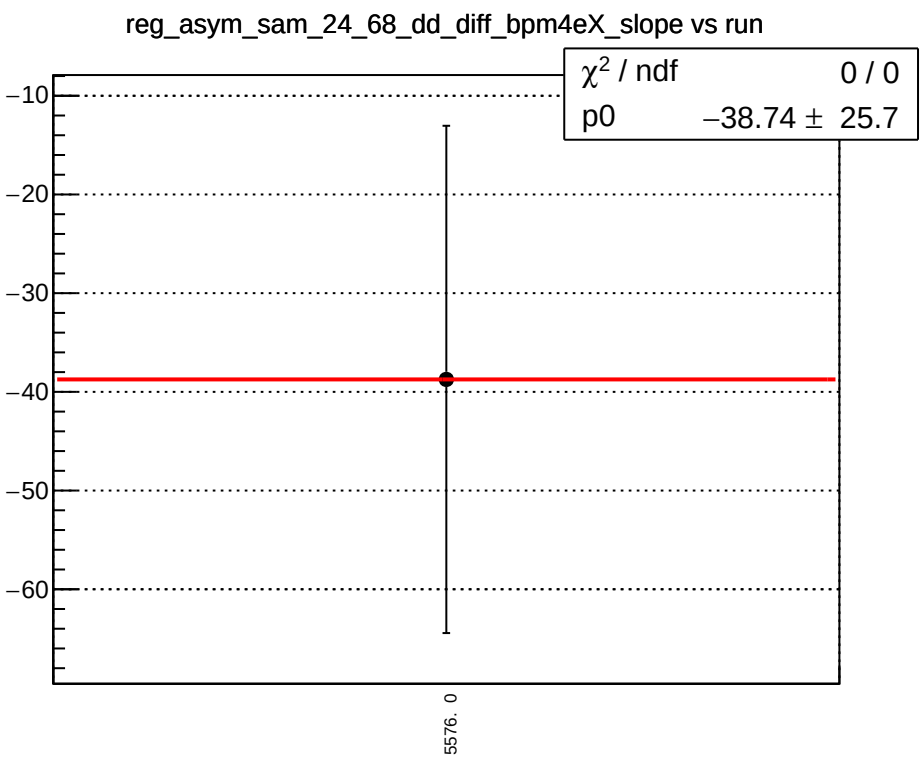

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 20 ± 6.994
28
26
24
22
20
18
16
14
12
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

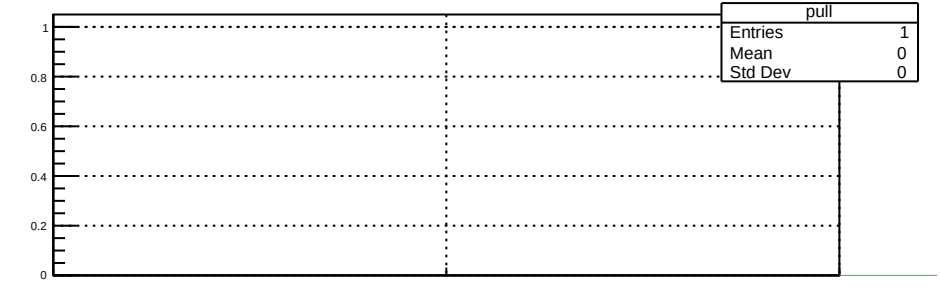

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −1.349 ± 5.138
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

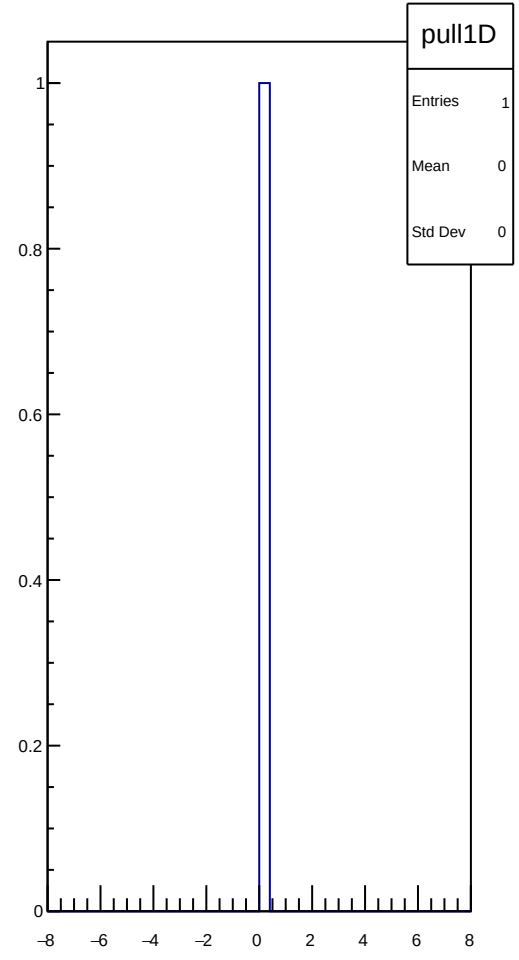

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.6101 ± 0.2371
0.8
0.7
0.6
0.5
0.4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

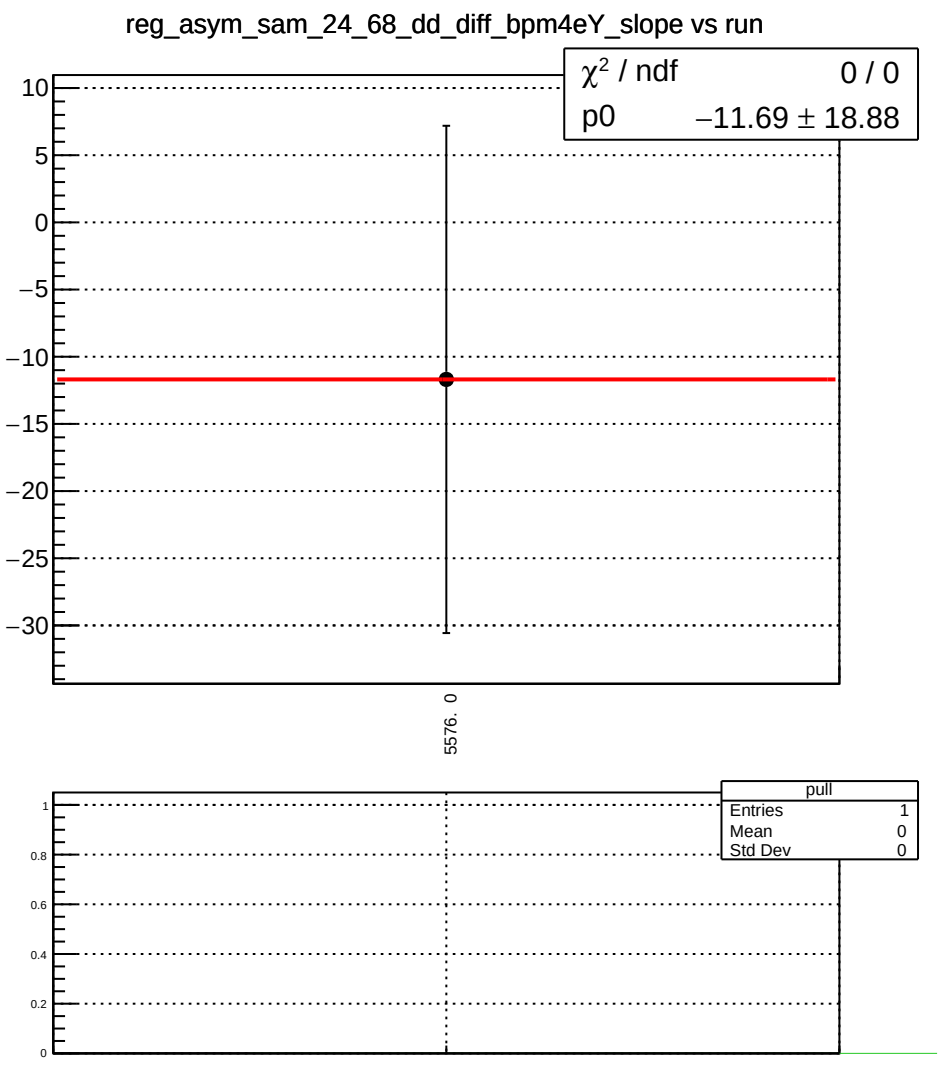

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.767e−31 / 0
p0 −74.58 ± 27.01
−50
−60
−70
−80
−90
−100
5576. 0
×10⁻¹⁵
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 5.261e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

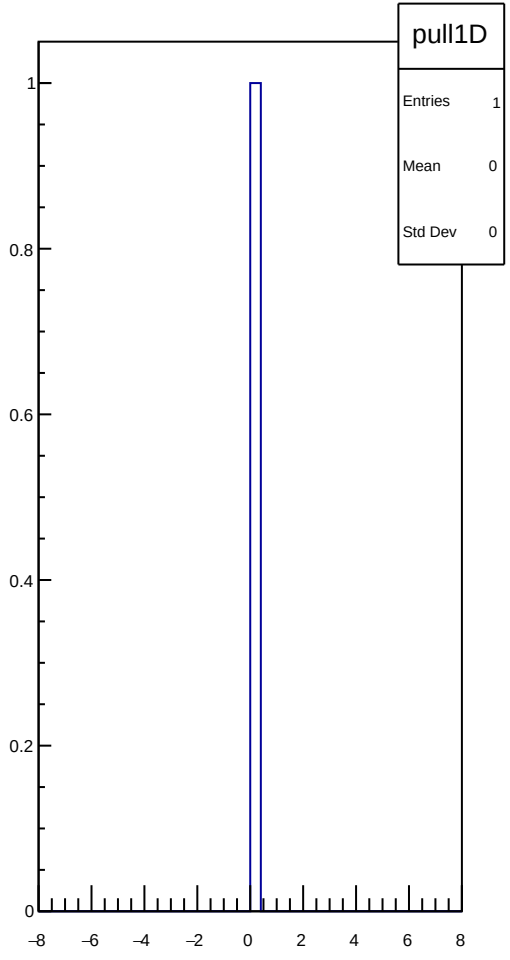

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −24.85 ± 14.17
−10
−15
−20
−25
−30
−35
−40
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

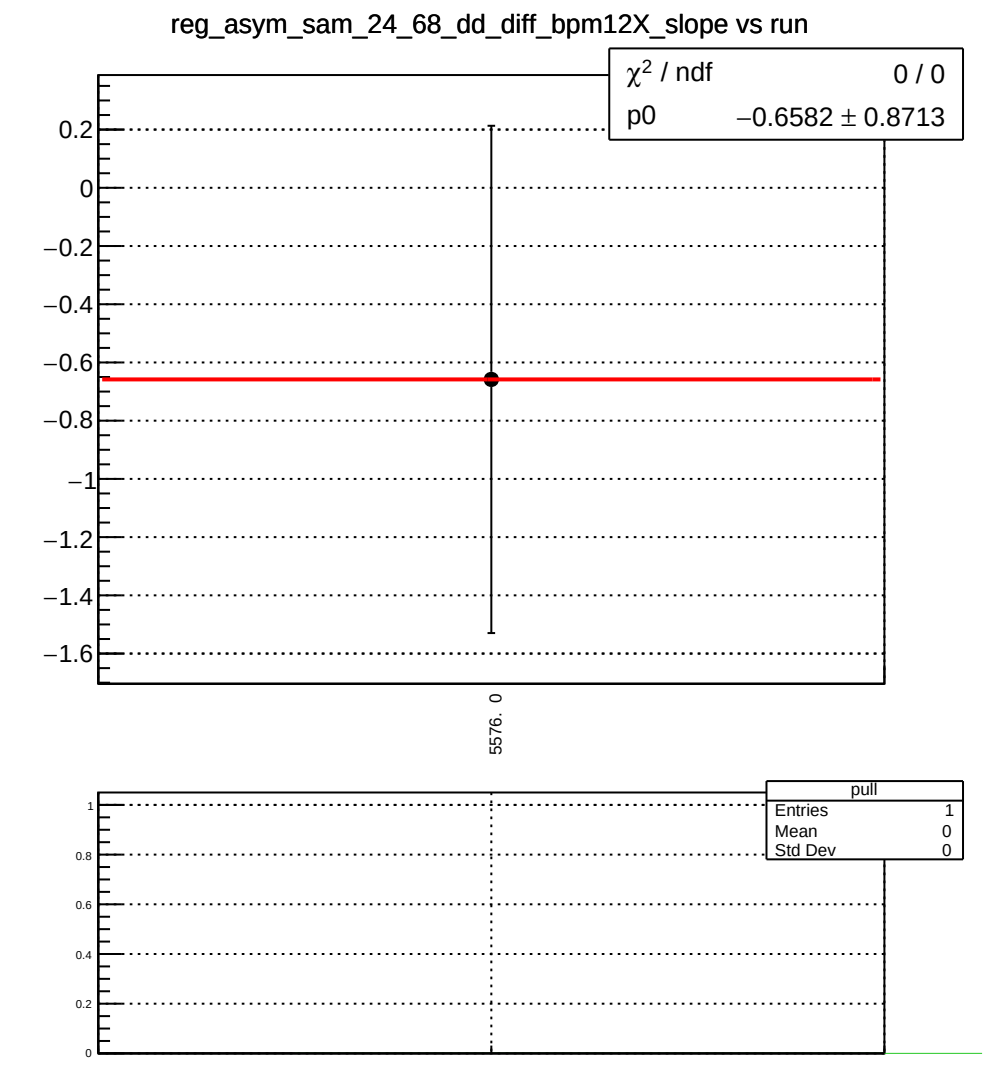

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −38.74 ± 25.7
−10
−20
−30
−40
−50
−60
5576. 0

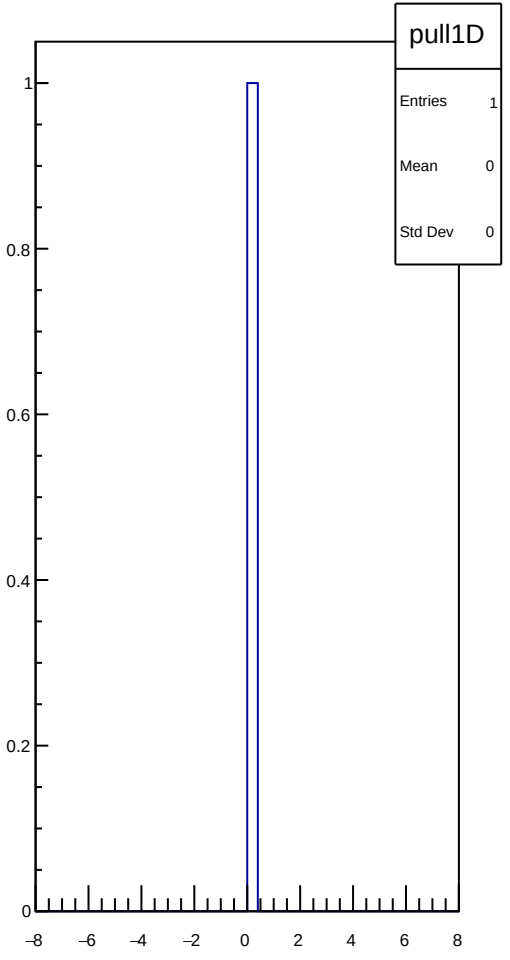

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

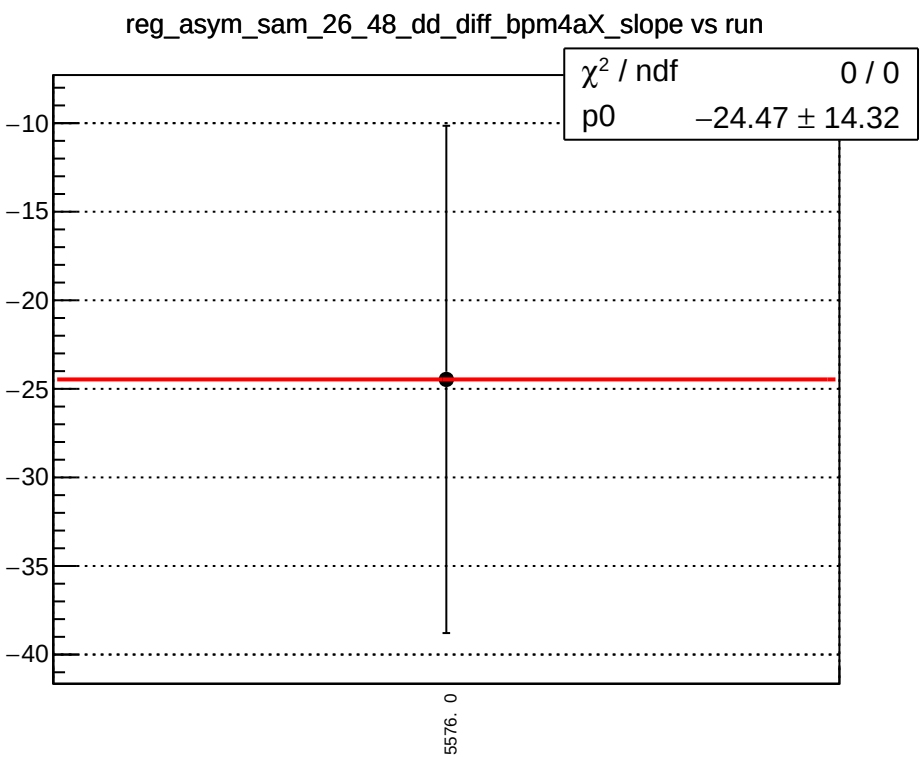

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

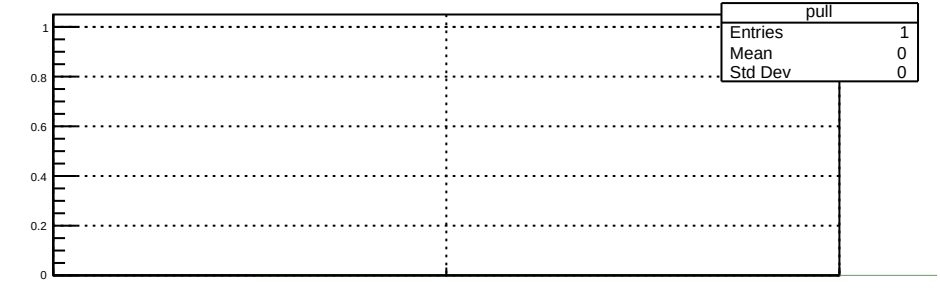

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −11.69 ± 18.88
10
5
0
−5
−10
−15
−20
−25
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

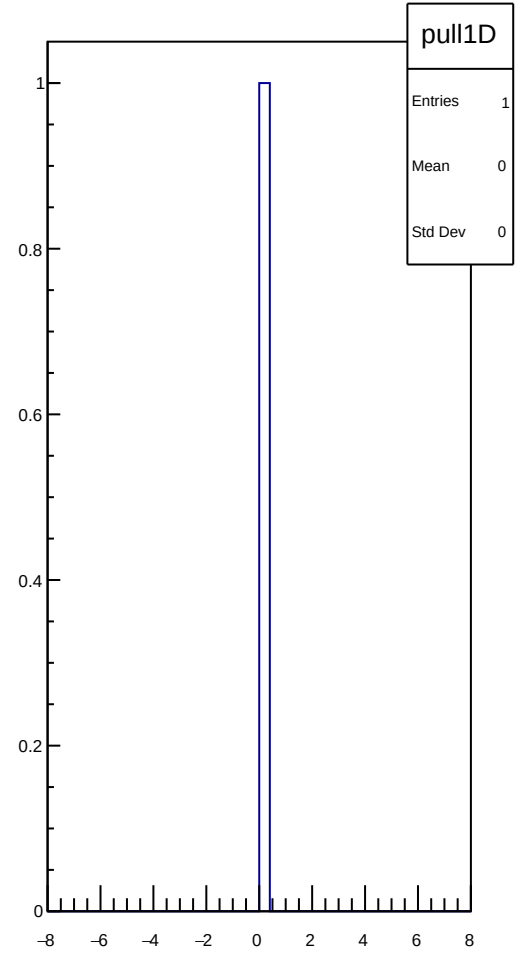

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

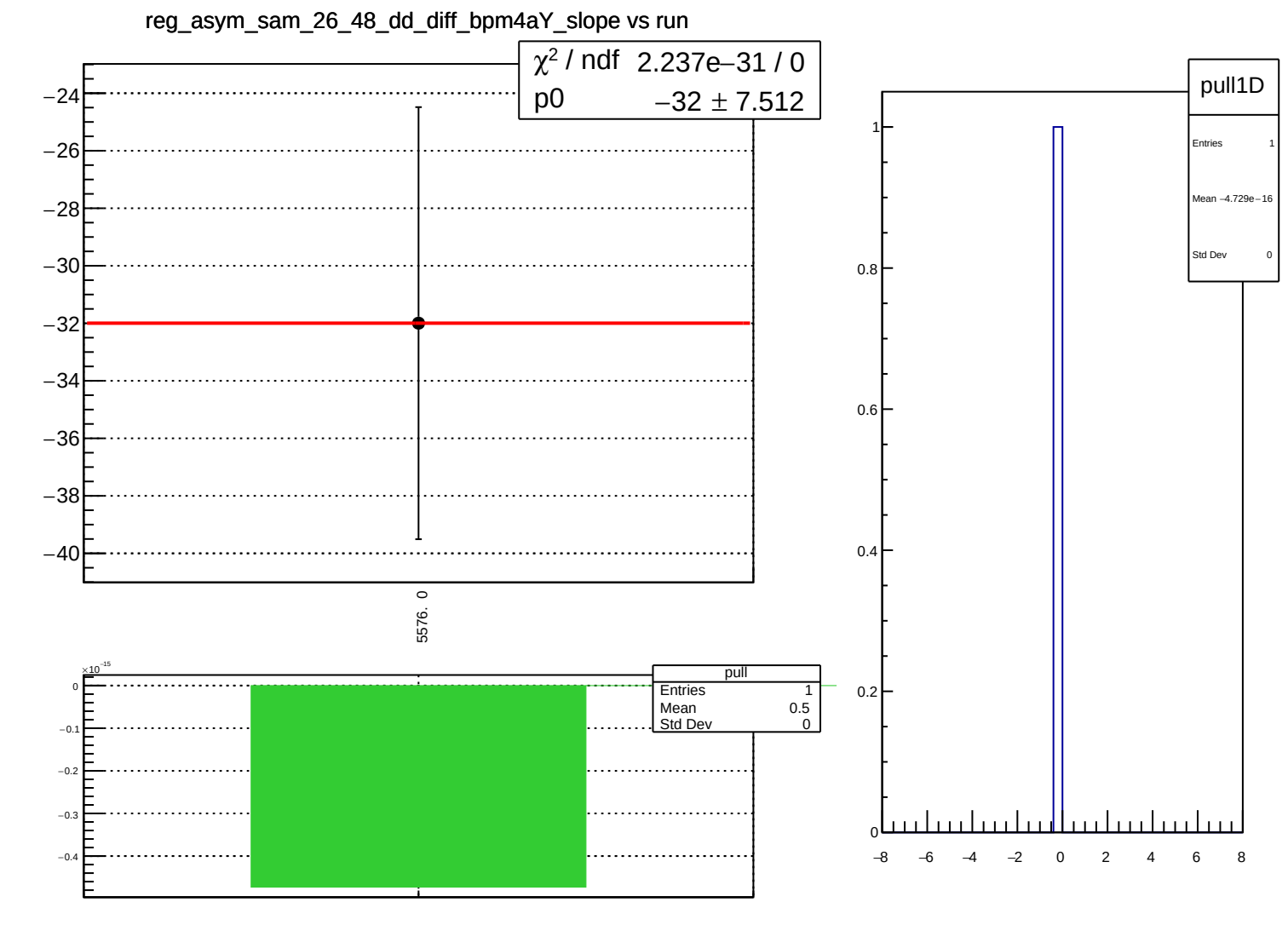

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.6582 ± 0.8713
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

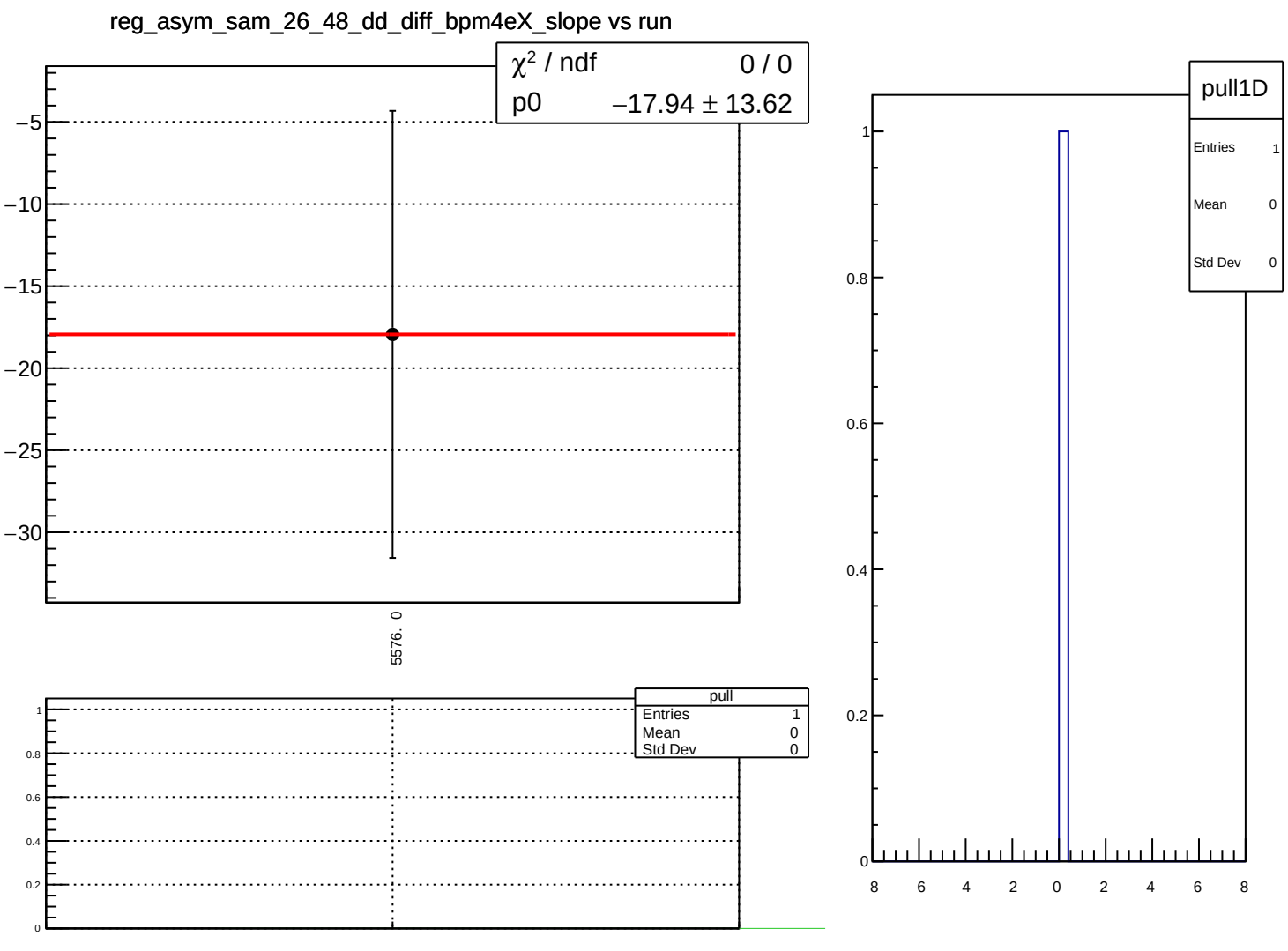

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

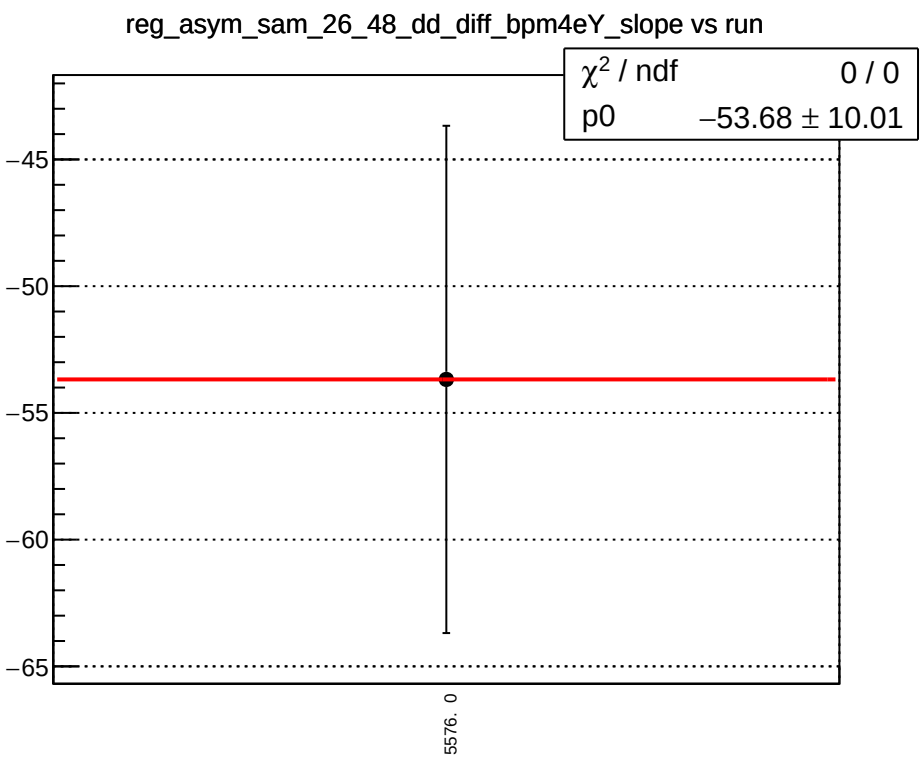

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −24.47 ± 14.32
−10
−15
−20
−25
−30
−35
−40
5576. 0

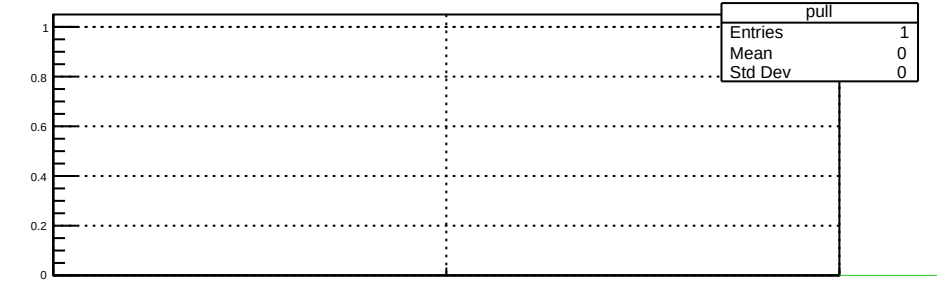

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

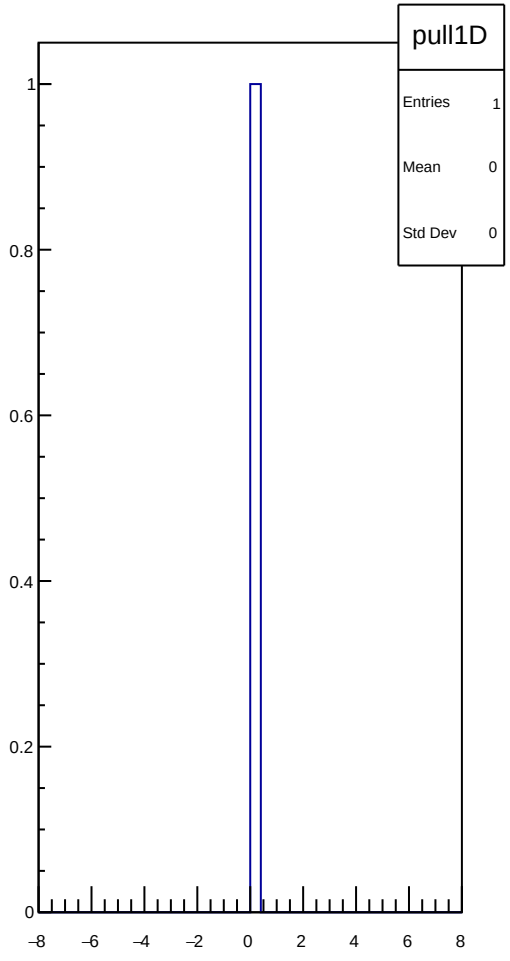

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

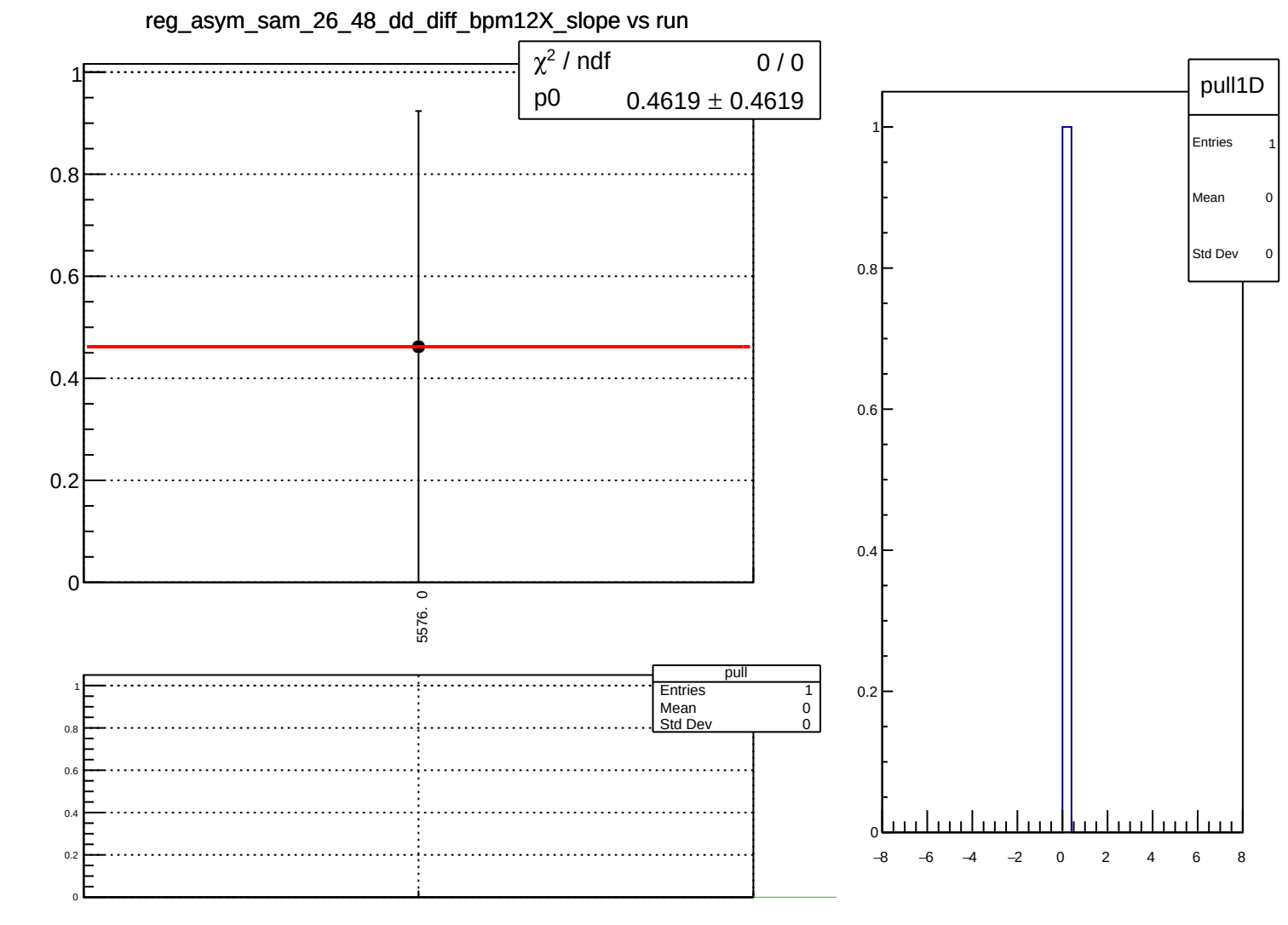

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.237e−31 / 0
p0 −32 ± 7.512
−24
−26
−28
−30
−32
−34
−36
−38
−40
5576. 0
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −4.729e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

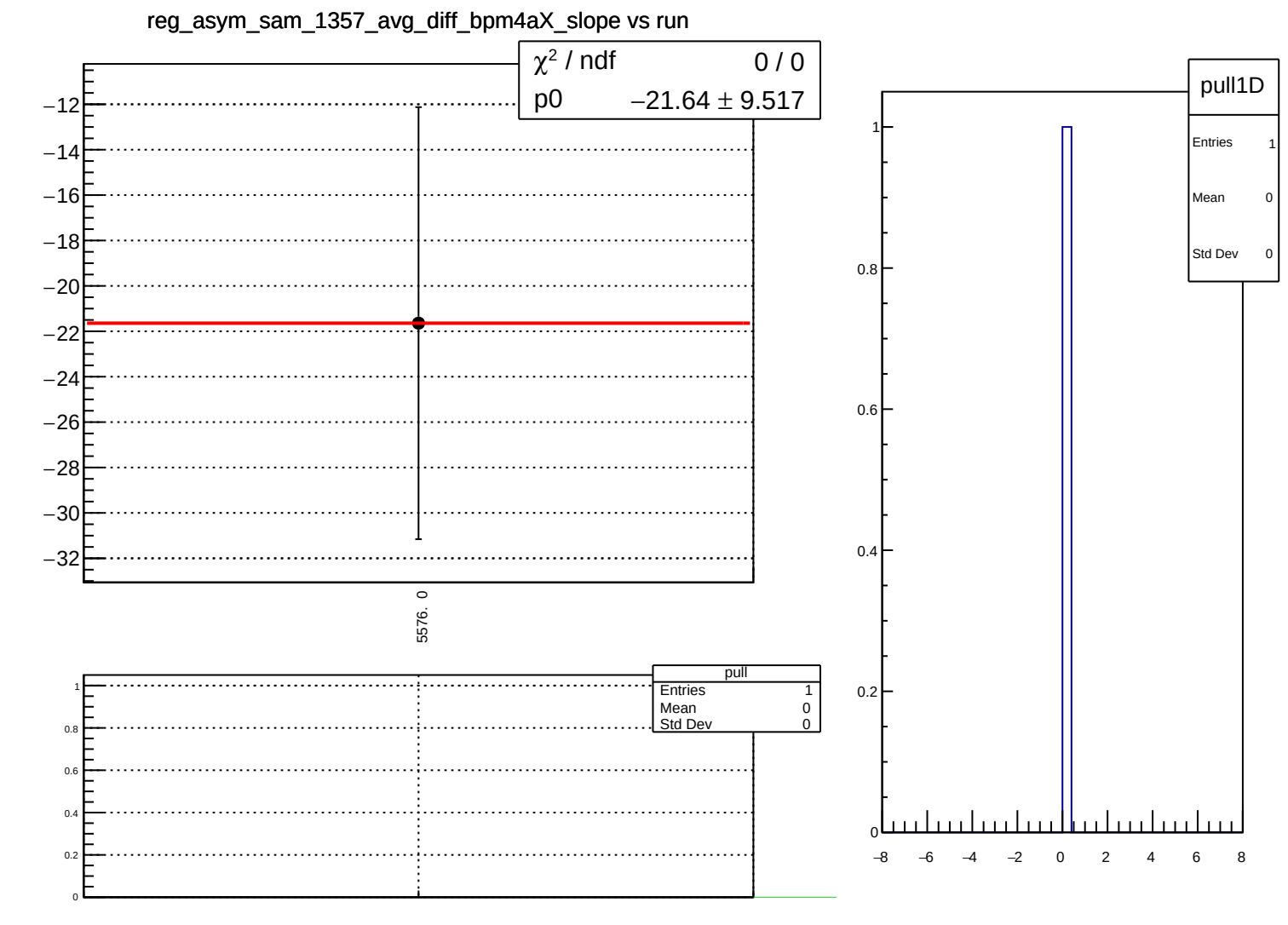

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −17.94 ± 13.62
−5
−10
−15
−20
−25
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

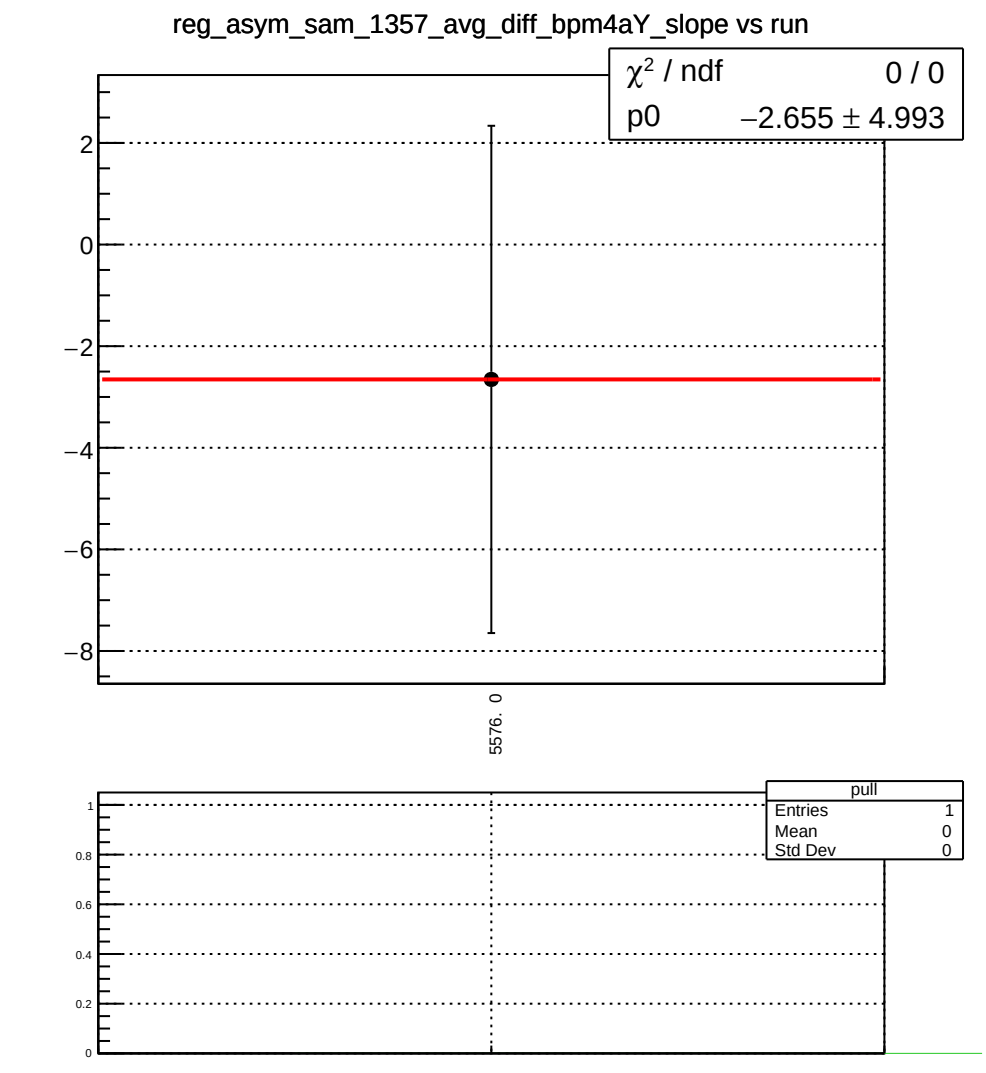

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −53.68 ± 10.01
−45
−50
−55
−60
−65
5576. 0

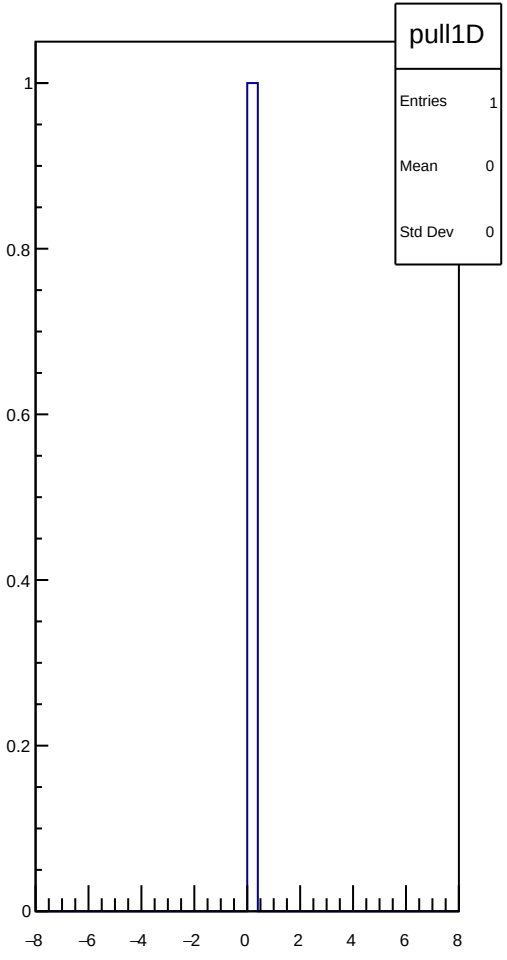

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

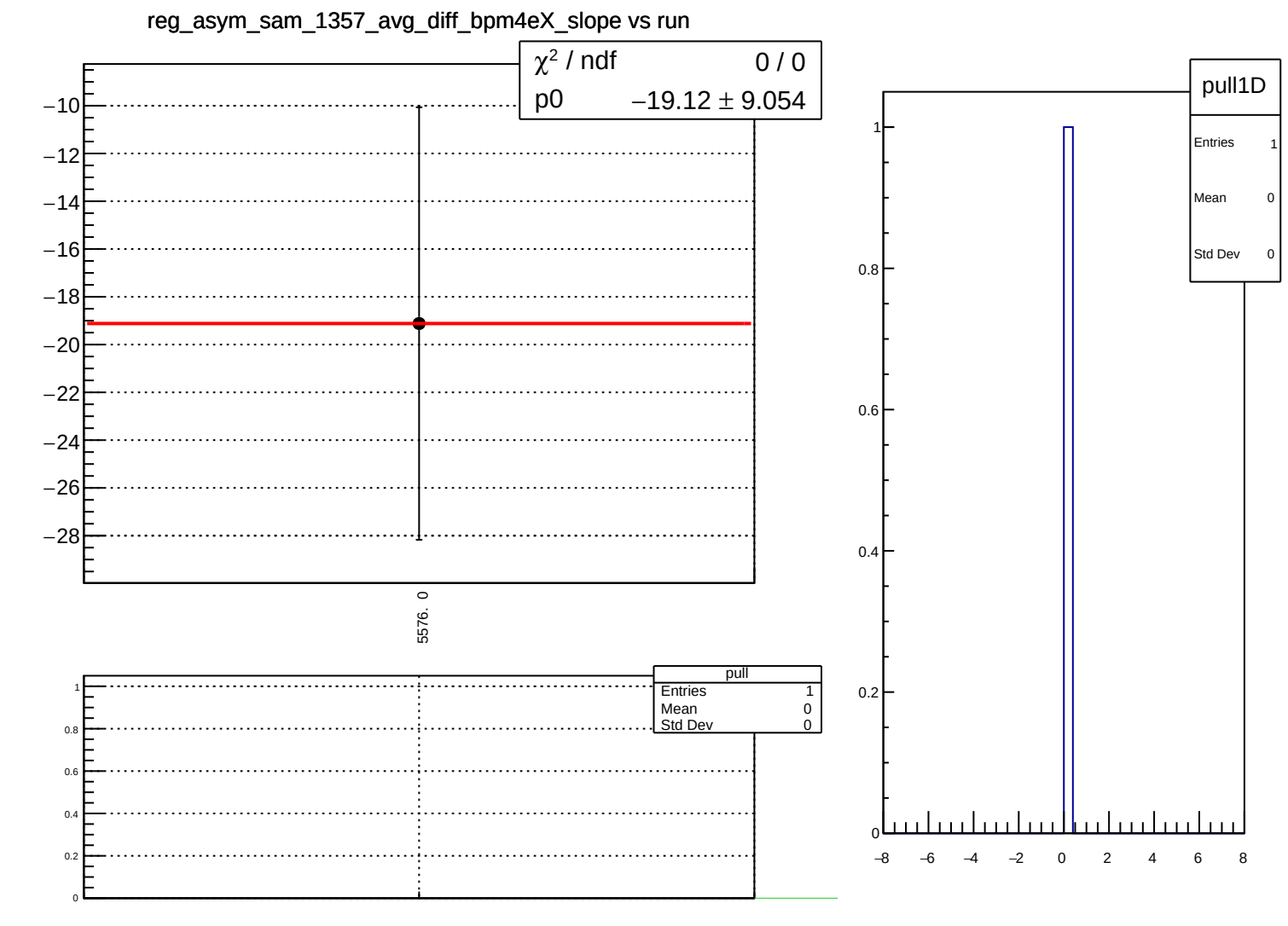

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

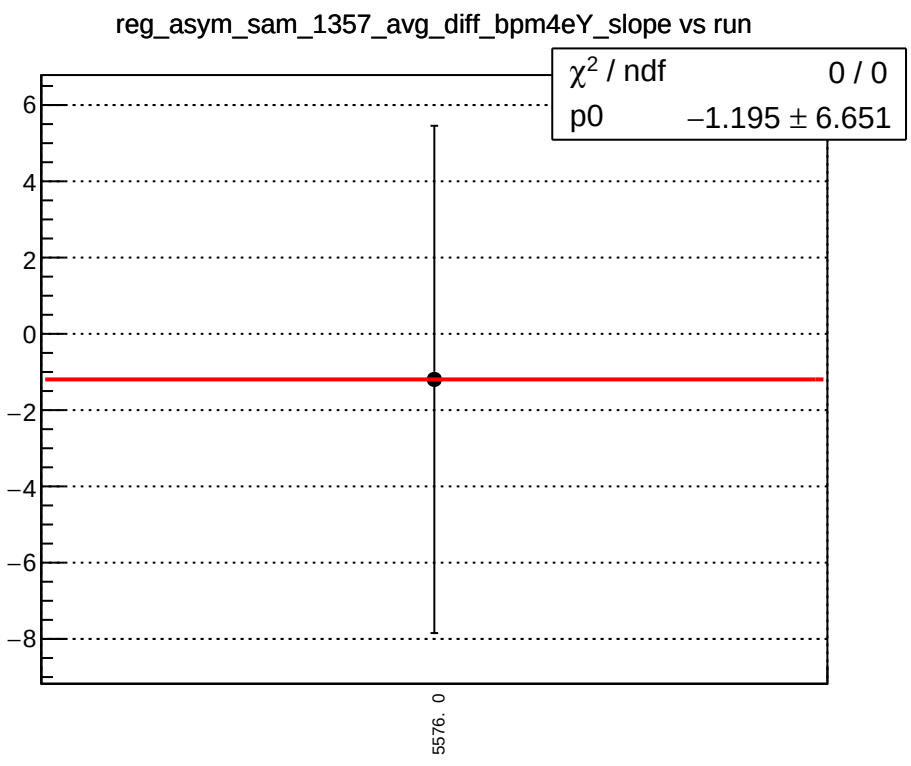

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.4619 ± 0.4619
1
0.8
0.6
0.4
0.2
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

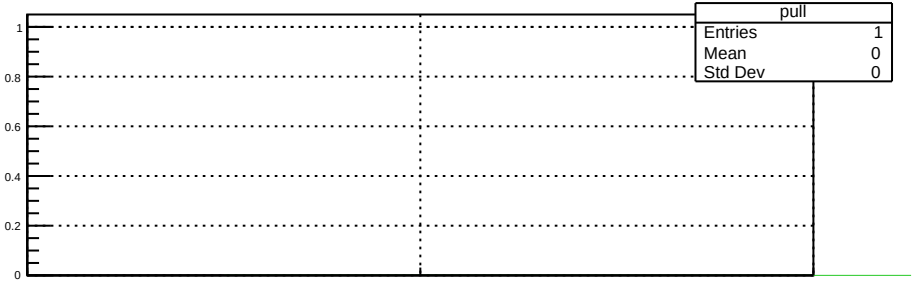

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −21.64 ± 9.517
−12
−14
−16
−18
−20
−22
−24
−26
−28
−30
−32
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

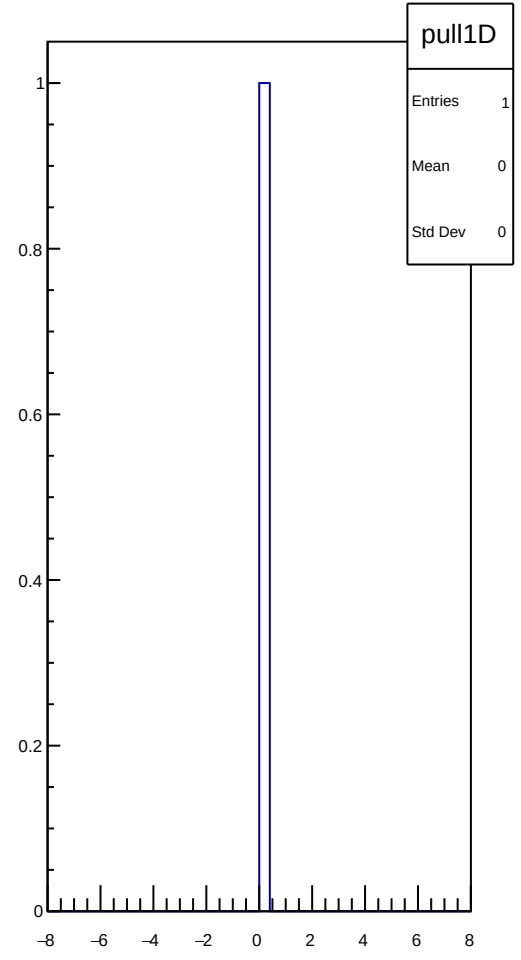

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −2.655 ± 4.993
2
0
−2
−4
−6
−8
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

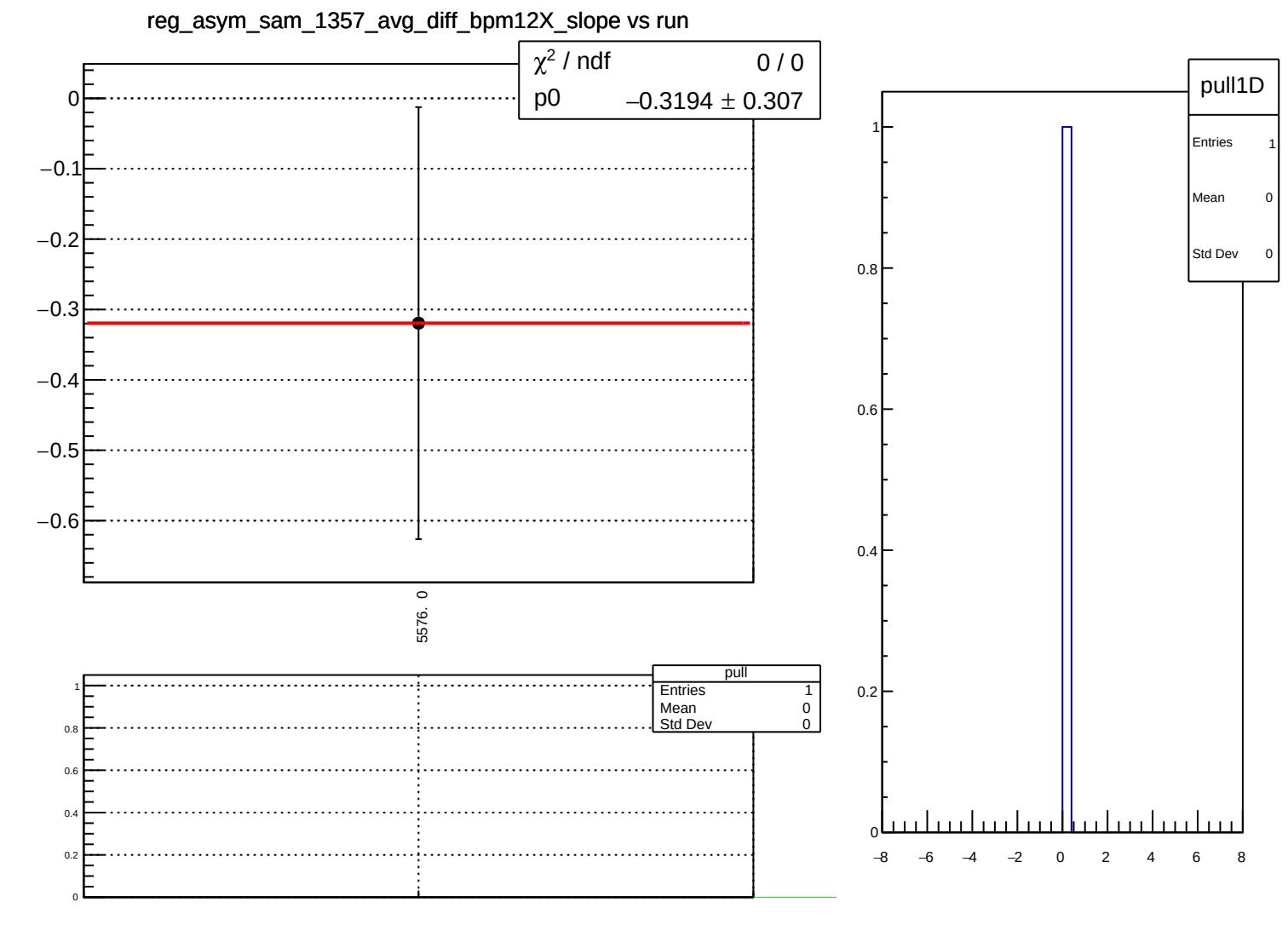

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

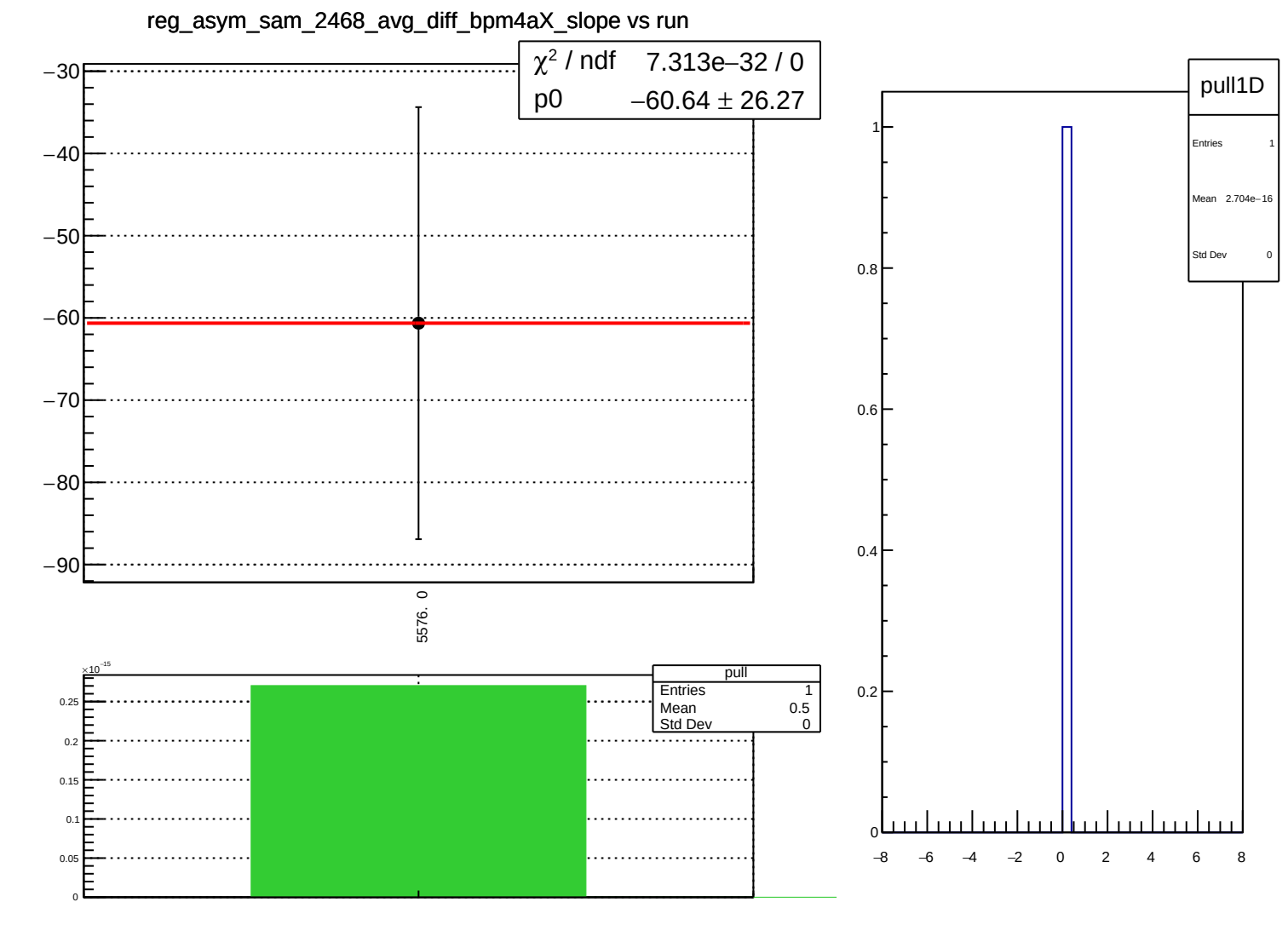

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −19.12 ± 9.054
−10
−12
−14
−16
−18
−20
−22
−24
−26
−28
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

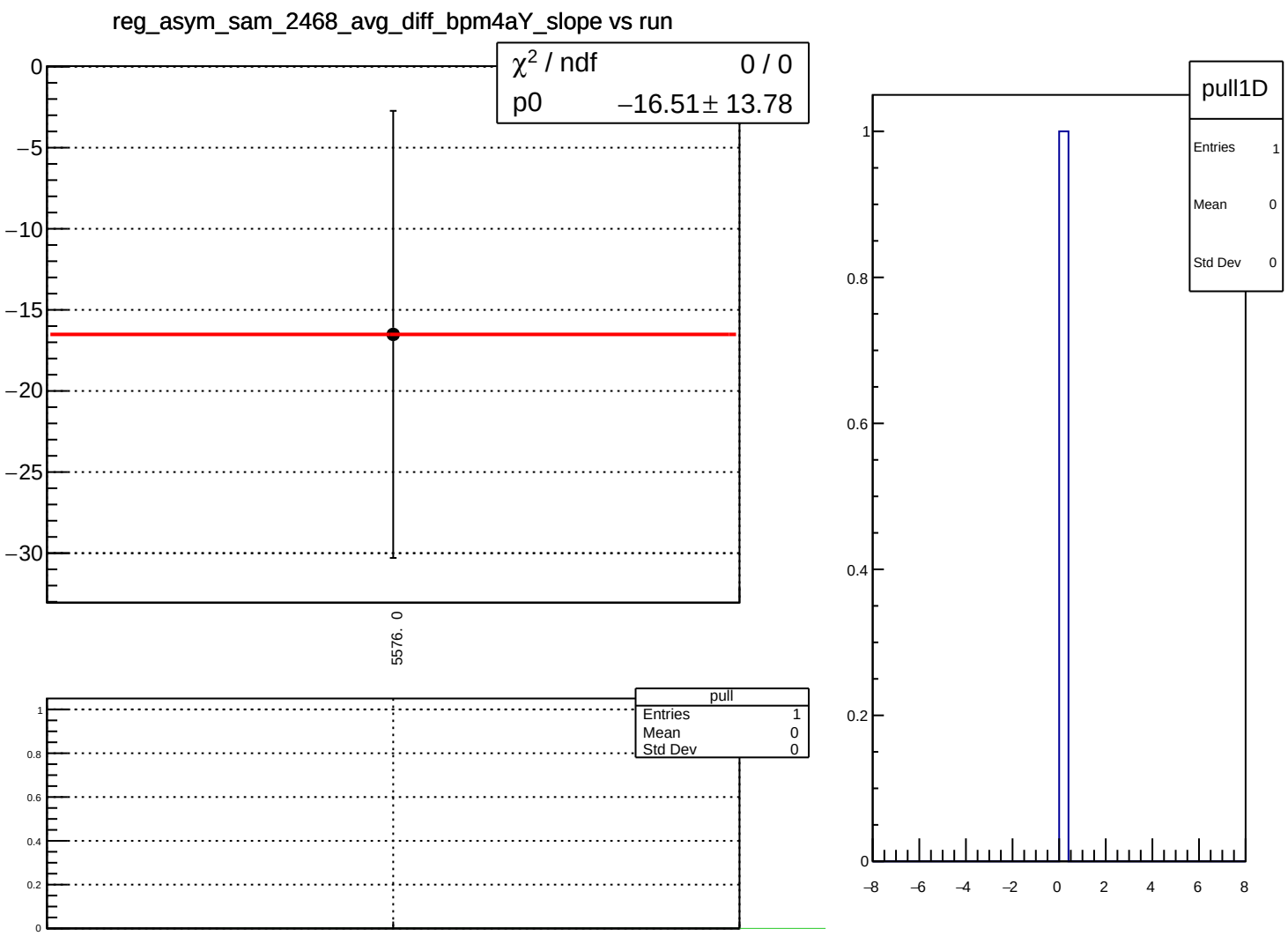

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −1.195 ± 6.651
6
4
2
0
−2
−4
−6
−8
5576. 0

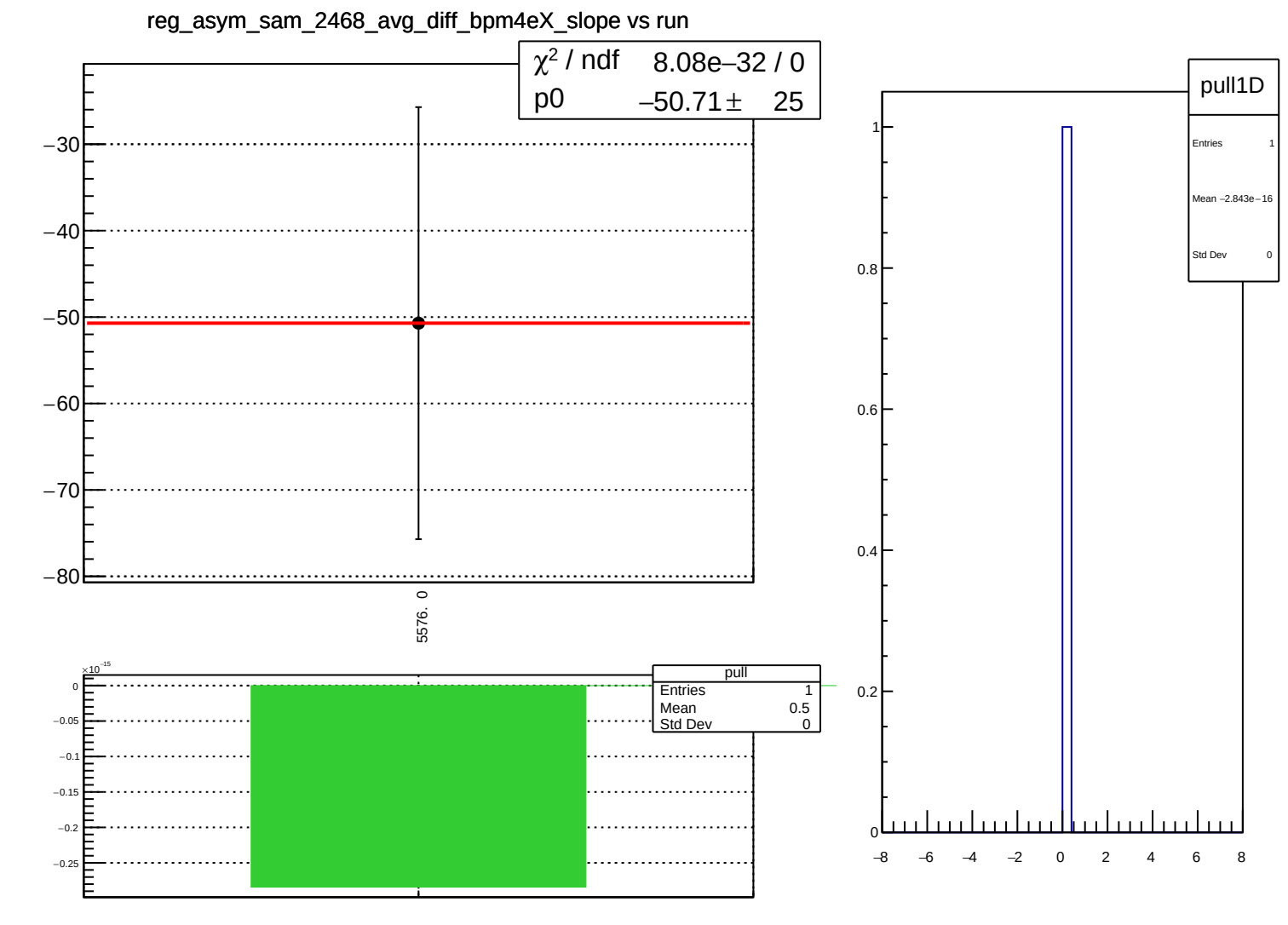

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

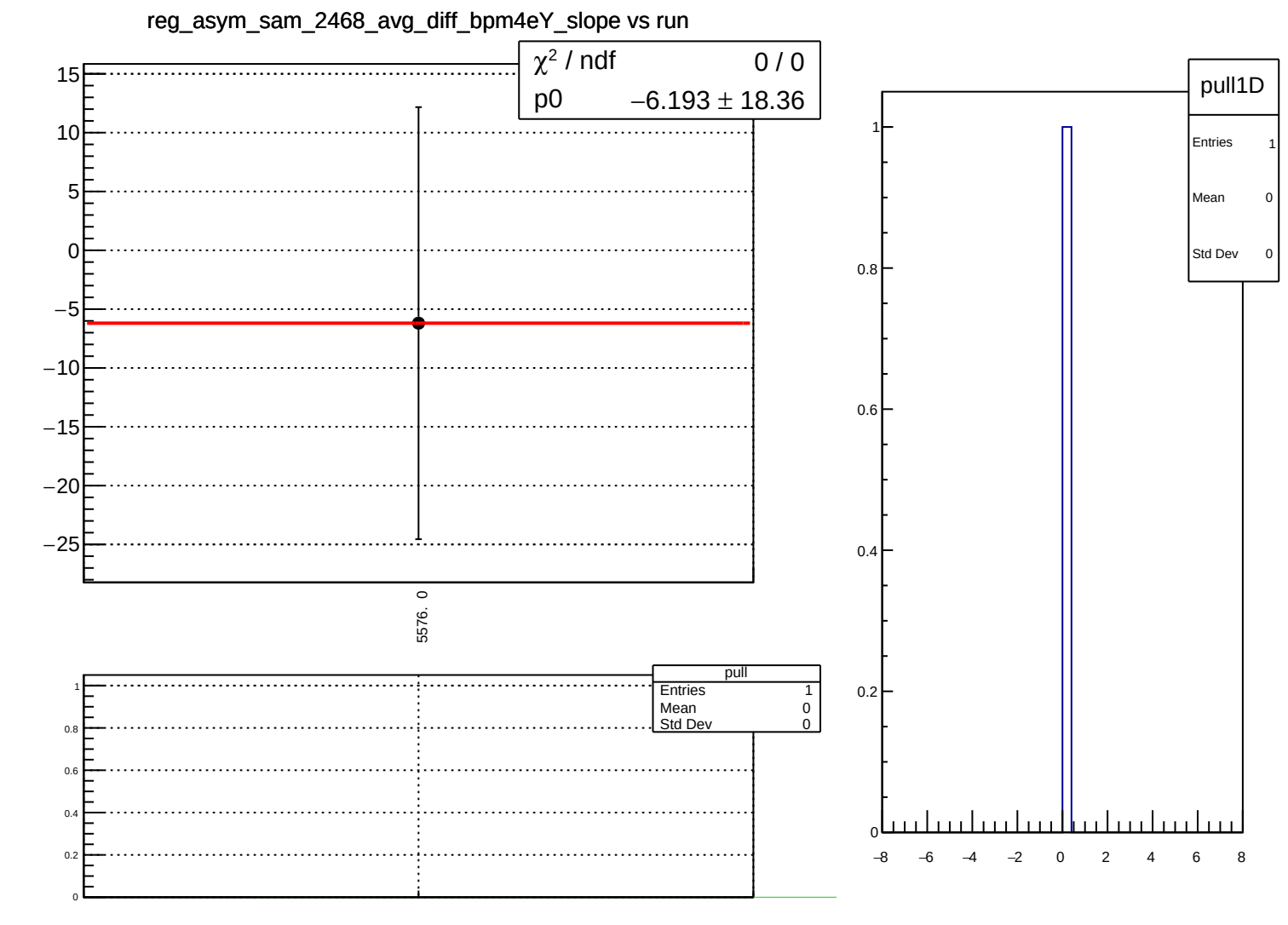

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

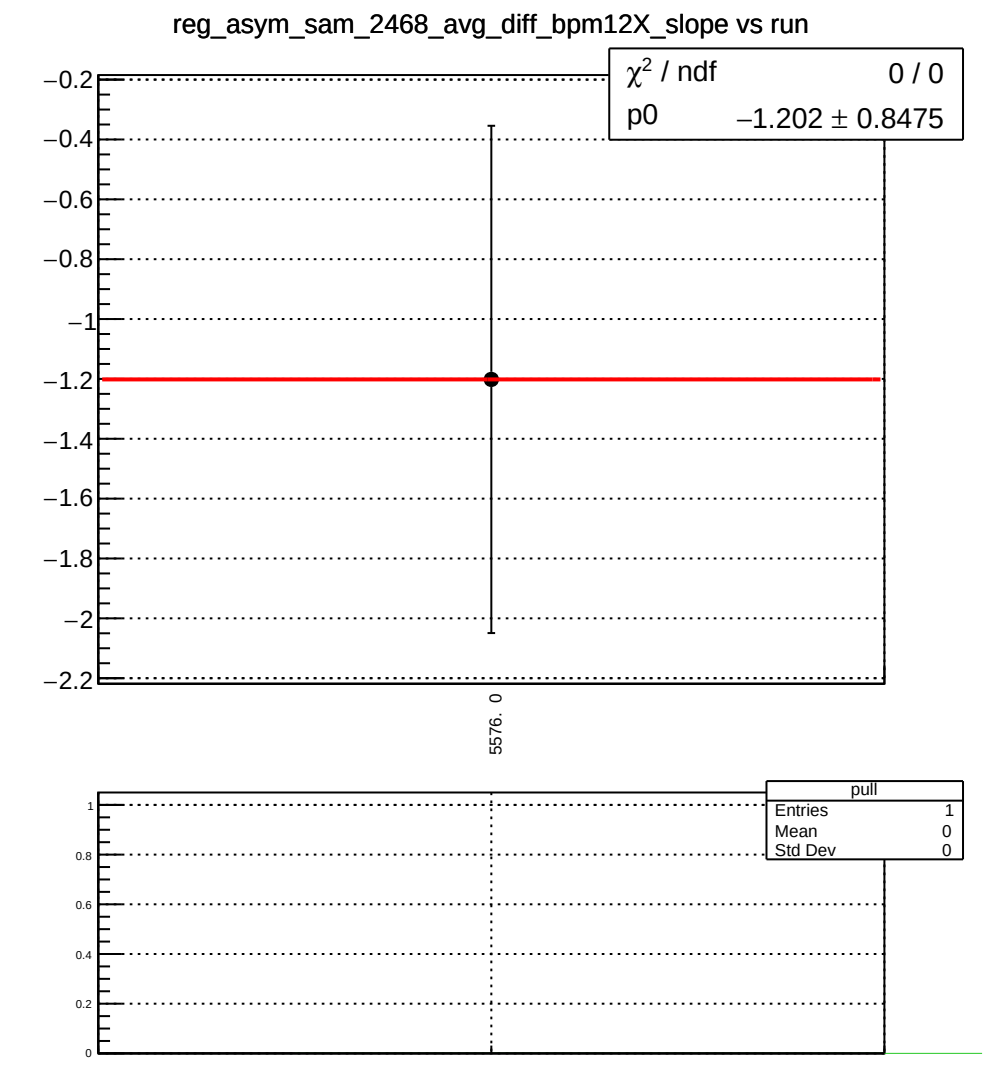

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.3194 ± 0.307
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

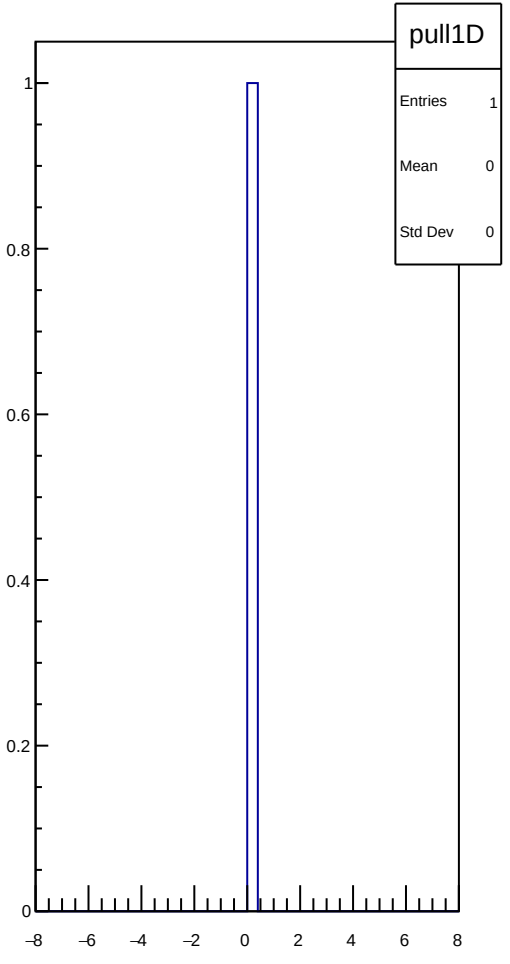

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.313e−32 / 0
p0 −60.64 ± 26.27
−30
−40
−50
−60
−70
−80
−90
5576. 0
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.704e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

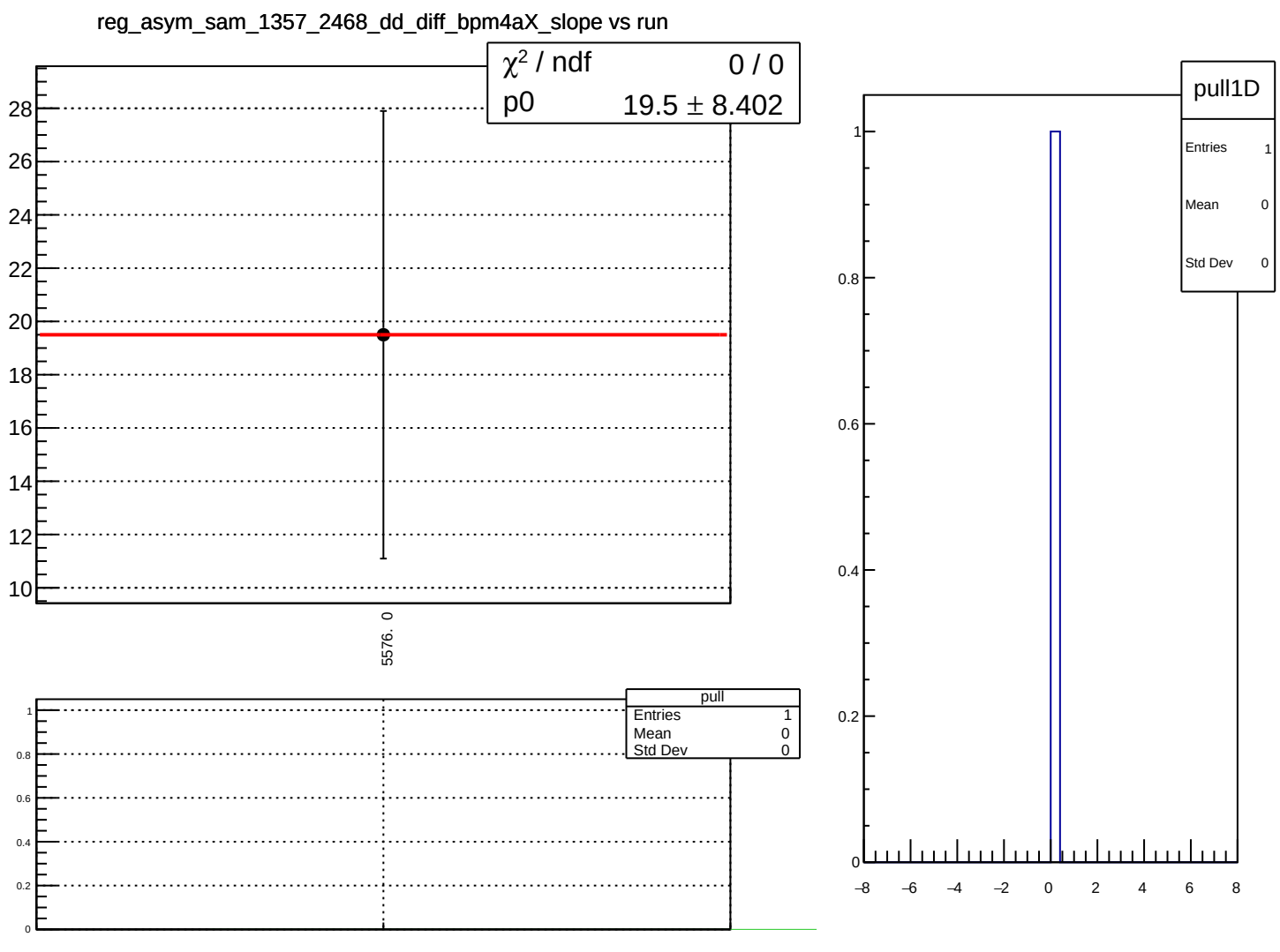

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −16.51 ± 13.78
0
−5
−10
−15
−20
−25
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

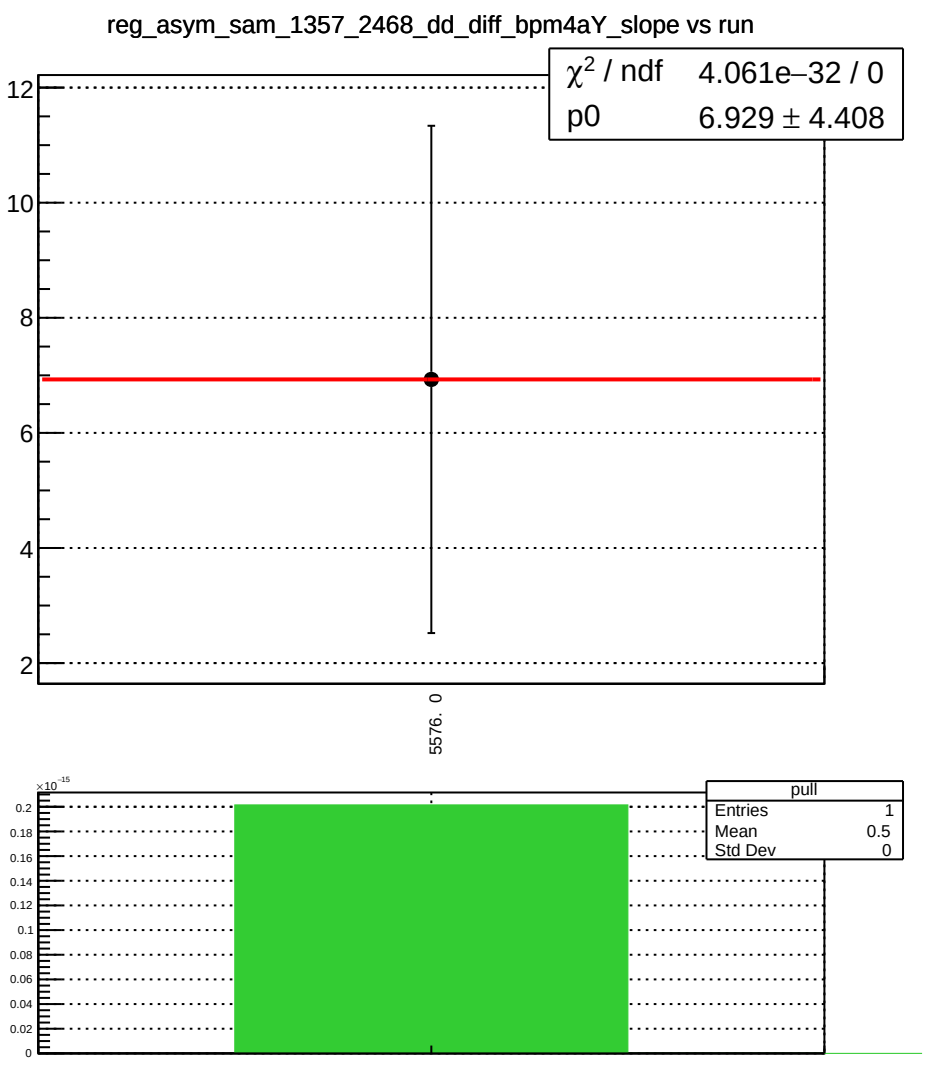

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.08e−32 / 0
p0 −50.71 ± 25
−30
−40
−50
−60
−70
−80
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.843e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

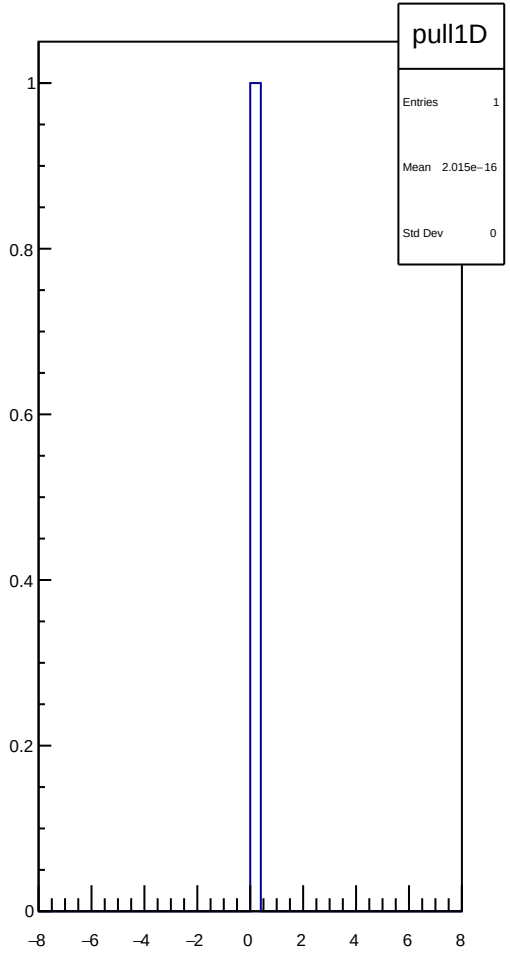

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −6.193 ± 18.36
15
10
5
0
−5
−10
−15
−20
−25
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

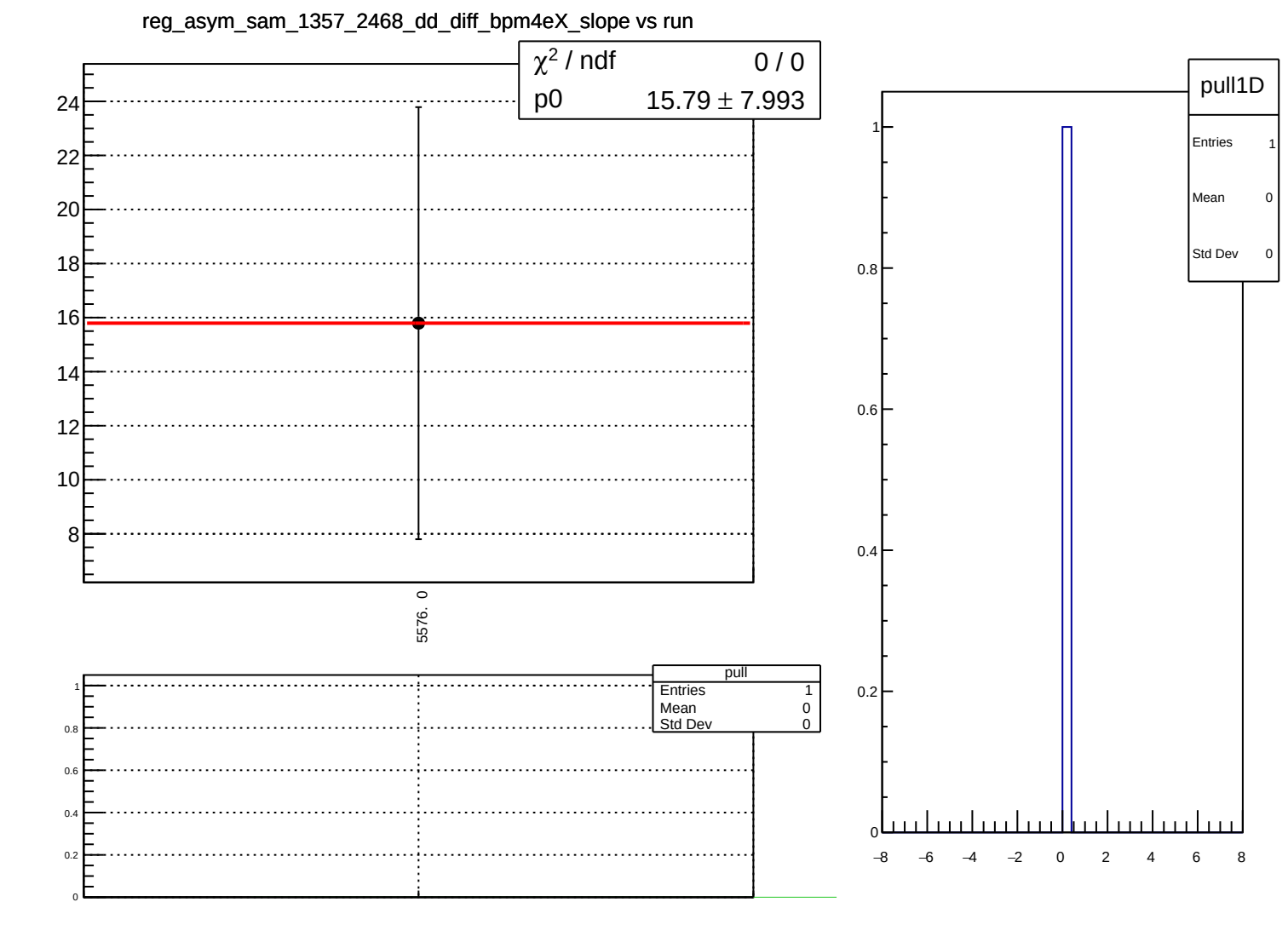

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −1.202 ± 0.8475
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

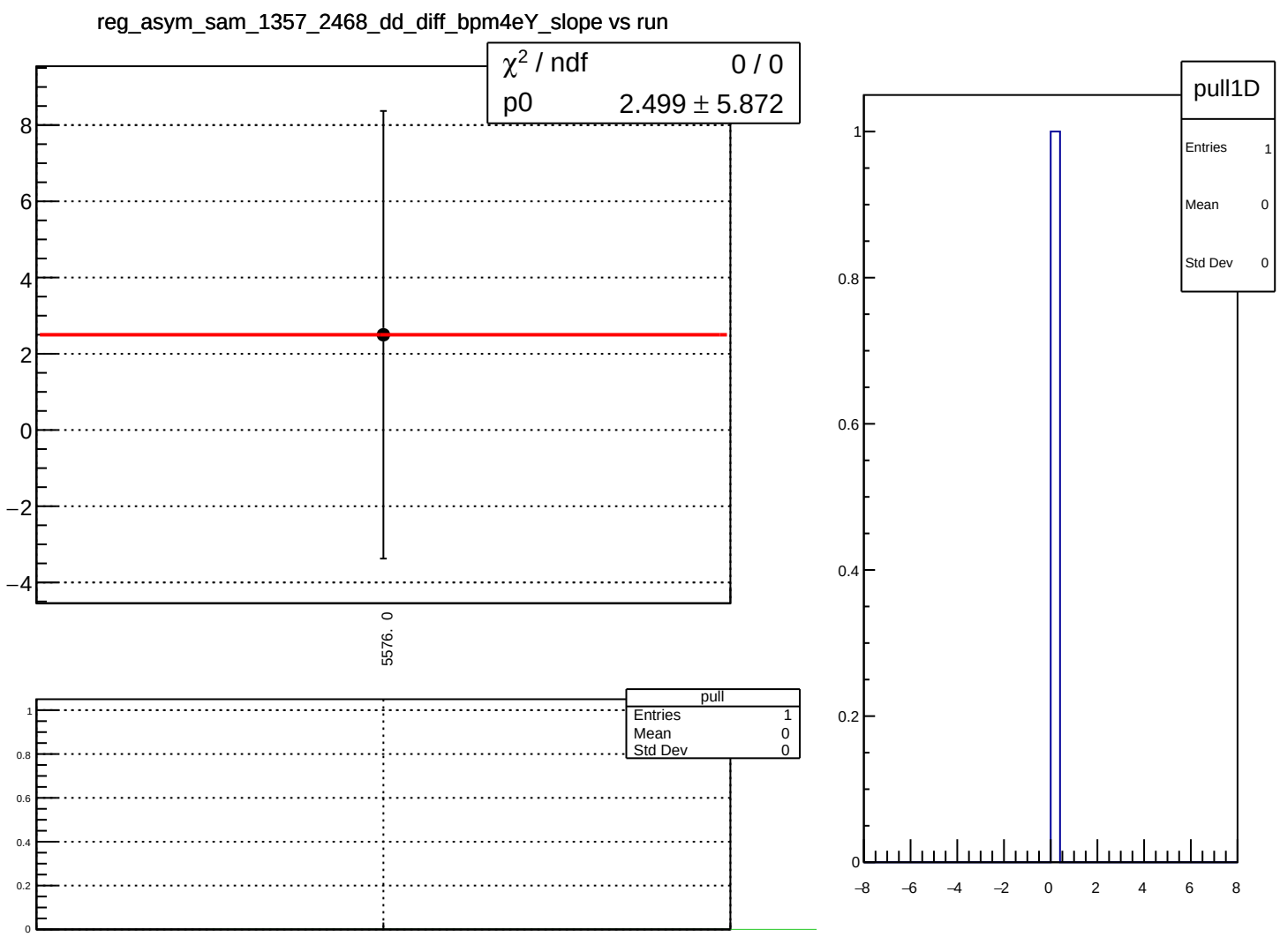

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

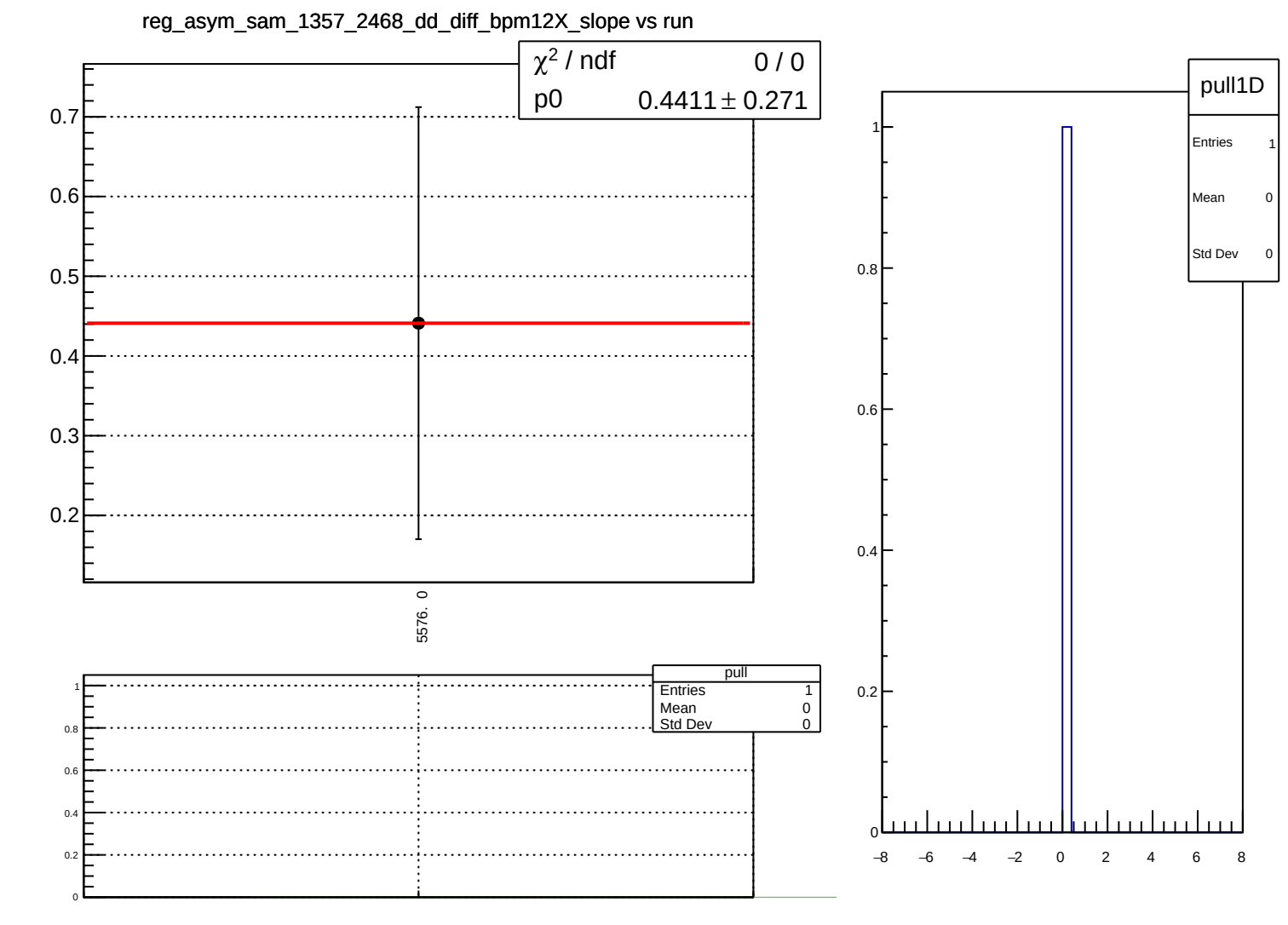

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 19.5 ± 8.402
28
26
24
22
20
18
16
14
12
10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

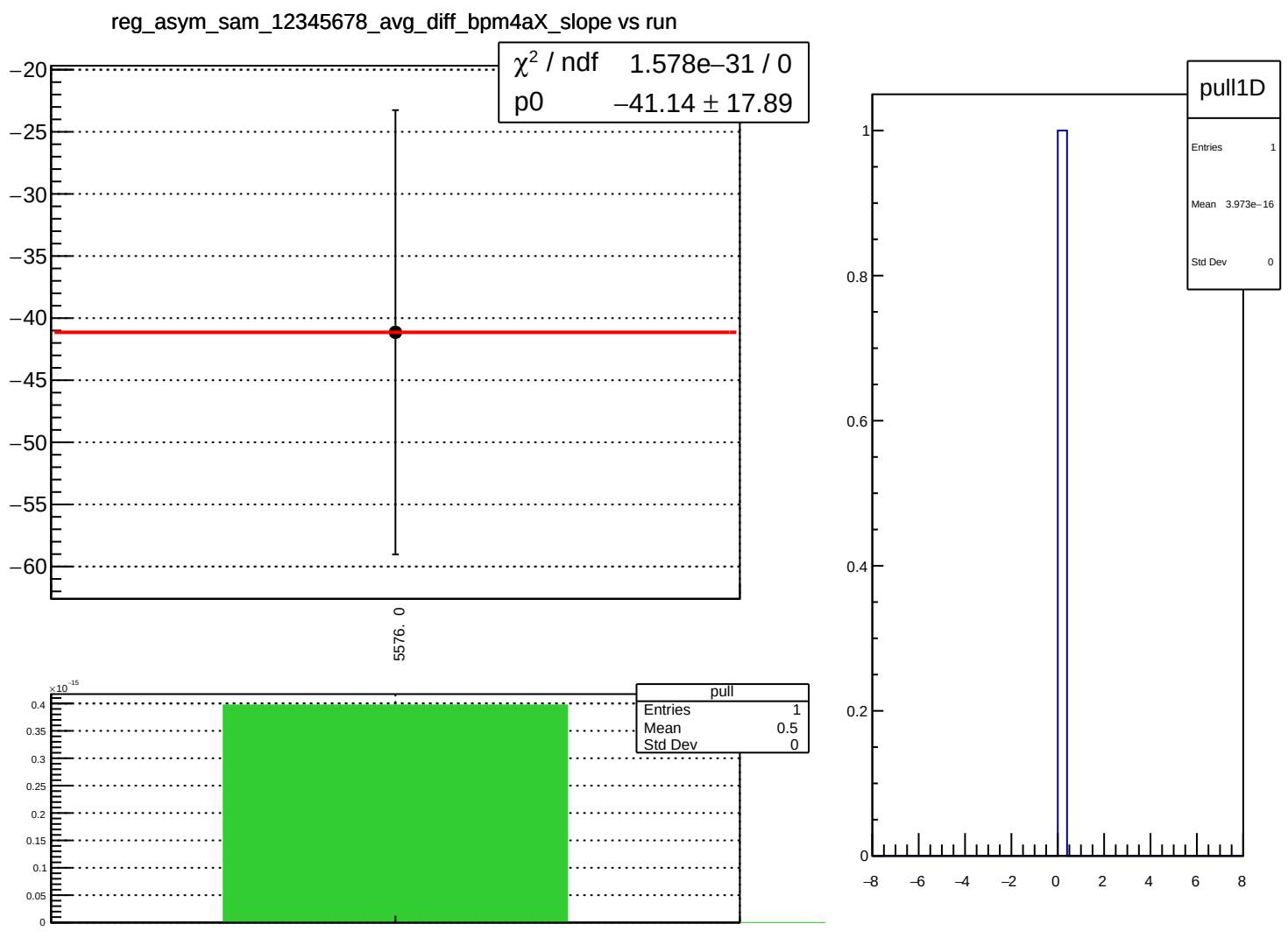

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.061e−32 / 0
p0 6.929 ± 4.408
12
10
8
6
4
2
5576. 0
×10⁻¹⁵
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

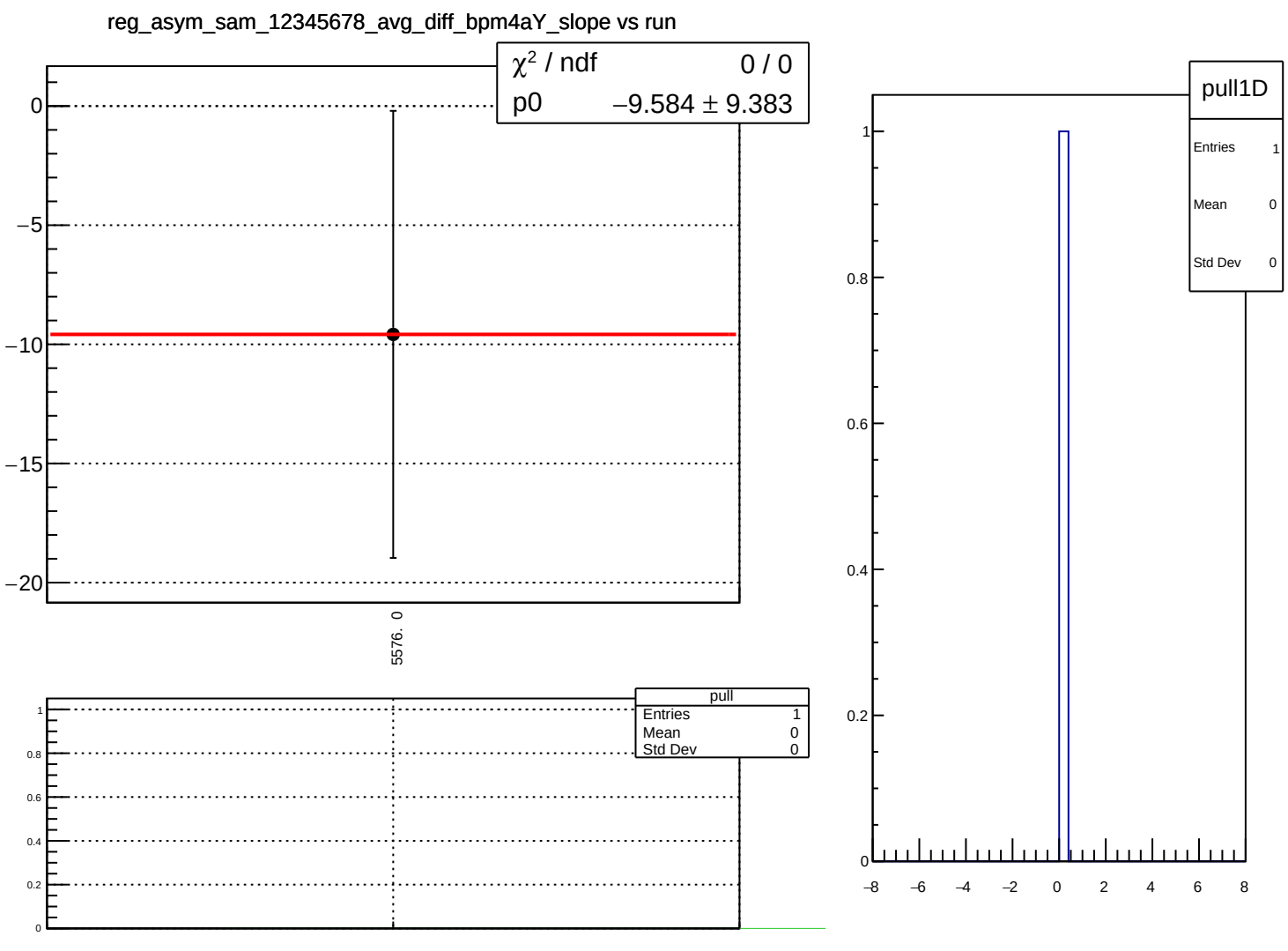

pull1D
Entries 1
Mean 2.015e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

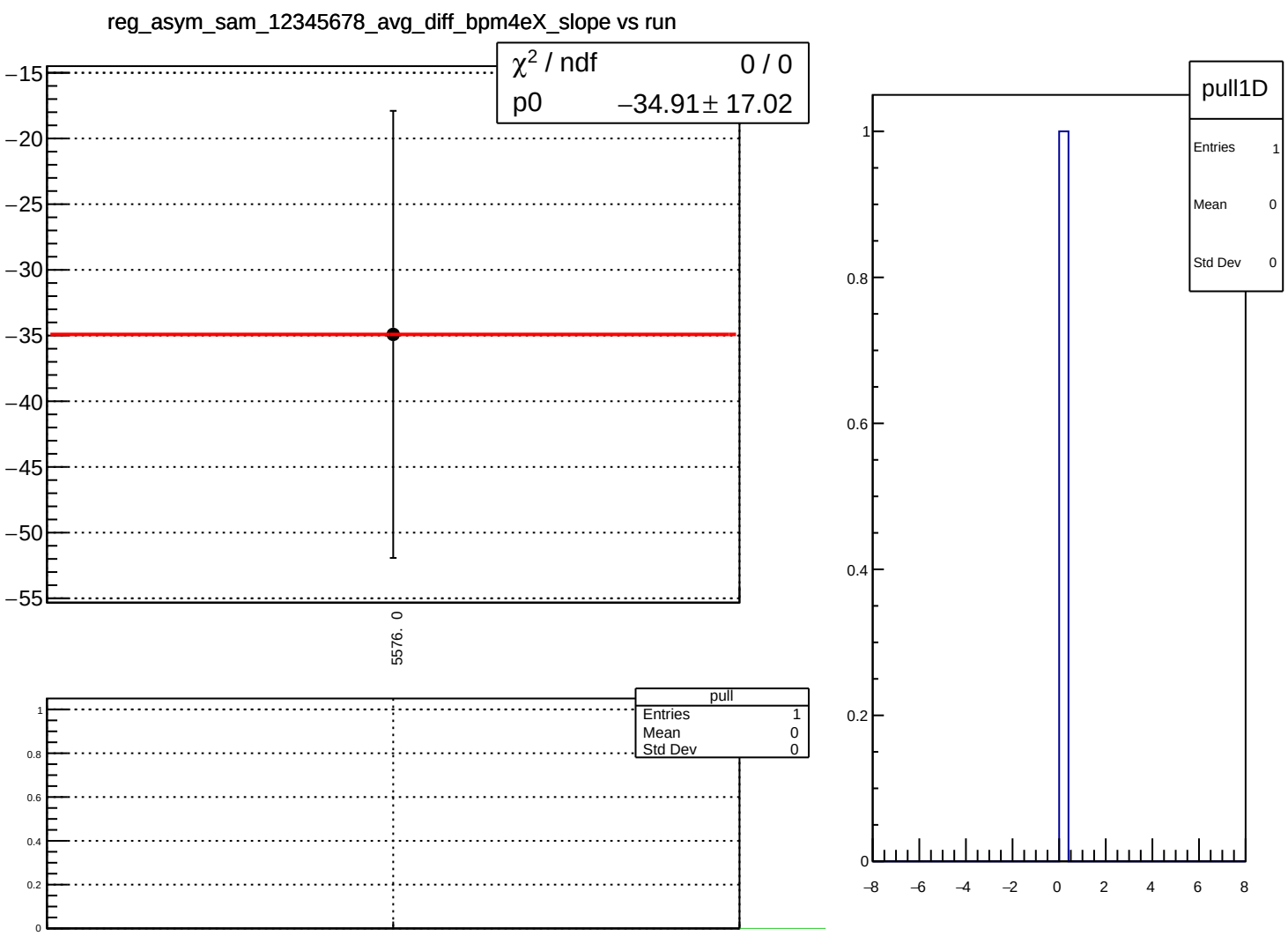

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 15.79 ± 7.993
24
22
20
18
16
14
12
10
8
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

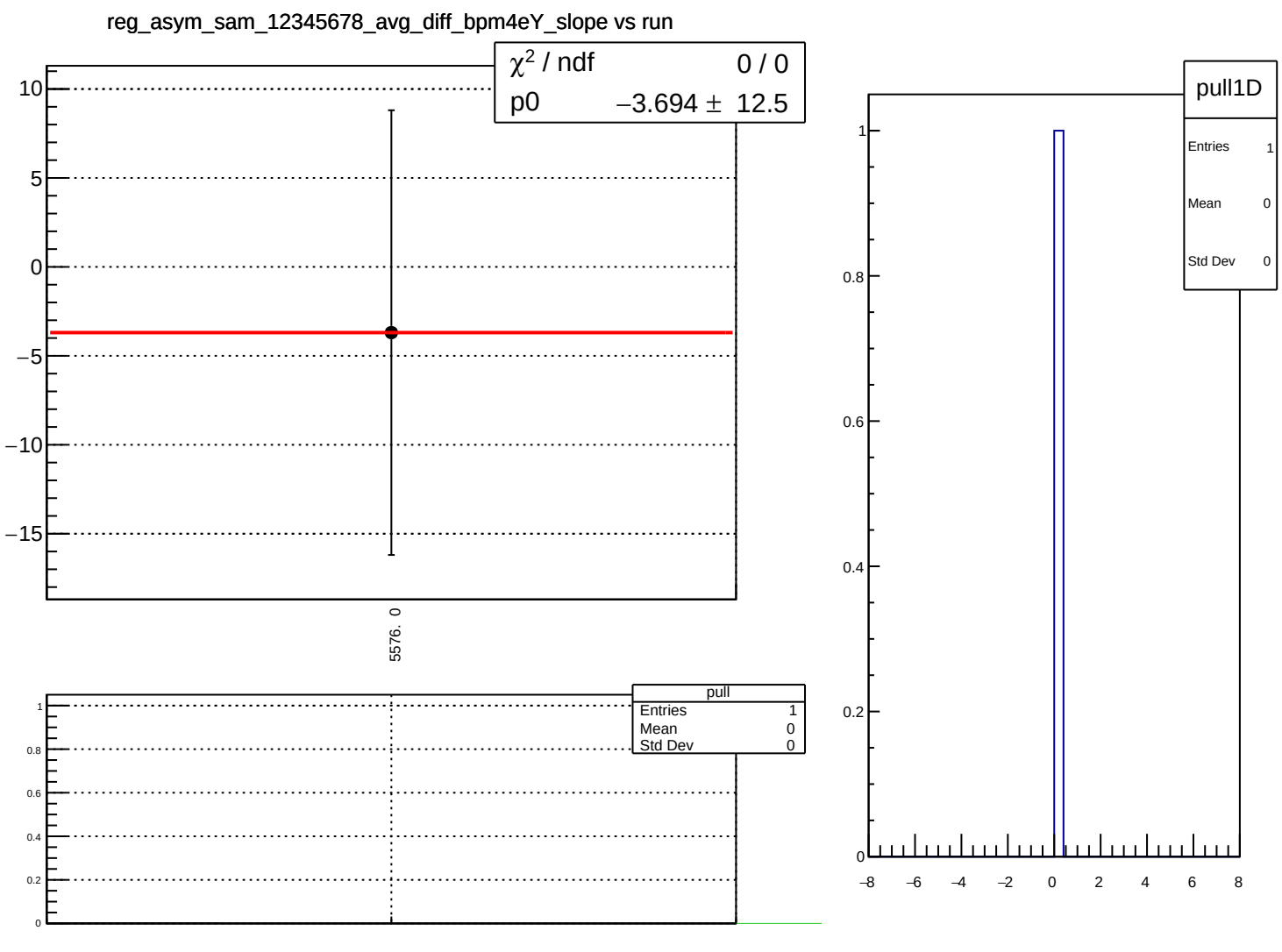

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 2.499 ± 5.872
8
6
4
2
0
−2
−4
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

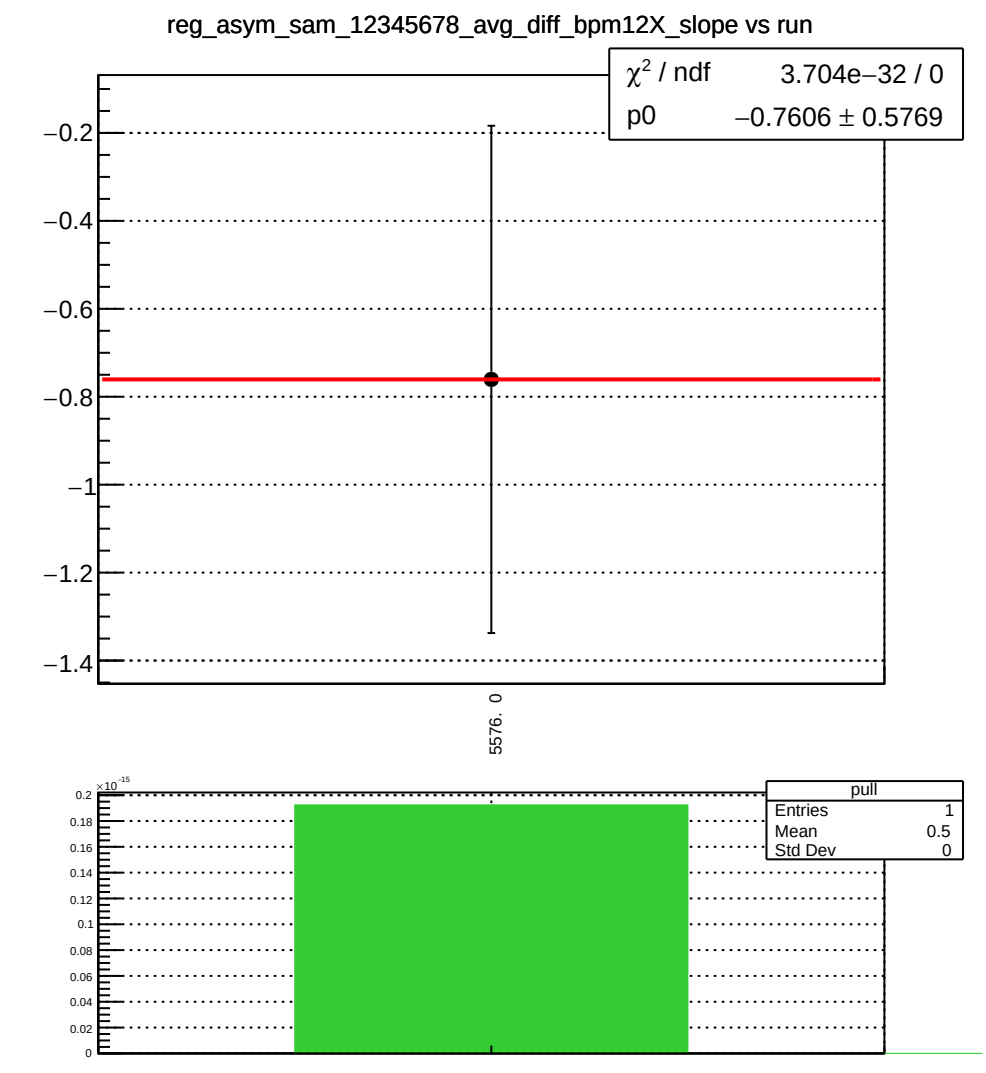

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 0.4411 ± 0.271
0.7
0.6
0.5
0.4
0.3
0.2
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

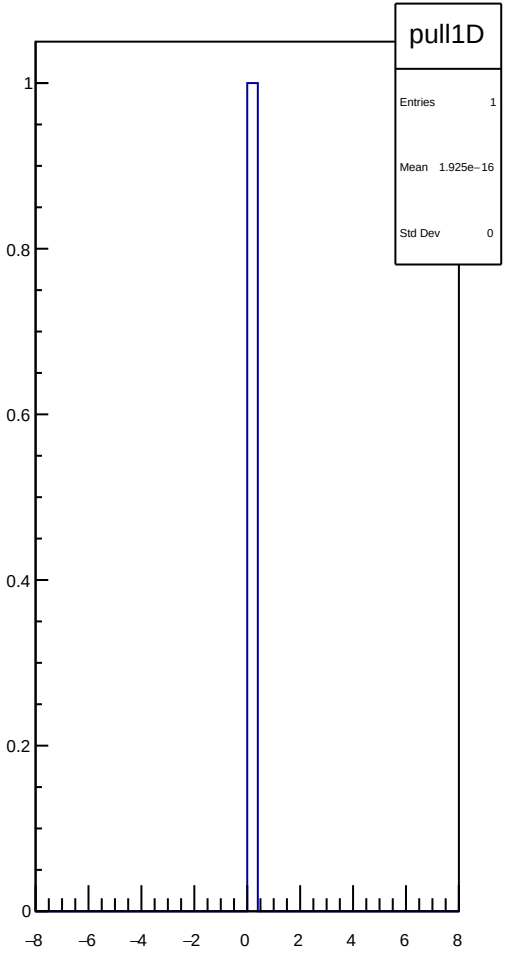

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.578e−31 / 0
p0 −41.14 ± 17.89
−20
−25
−30
−35
−40
−45
−50
−55
−60
5576. 0
×10⁻¹⁵
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 3.973e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

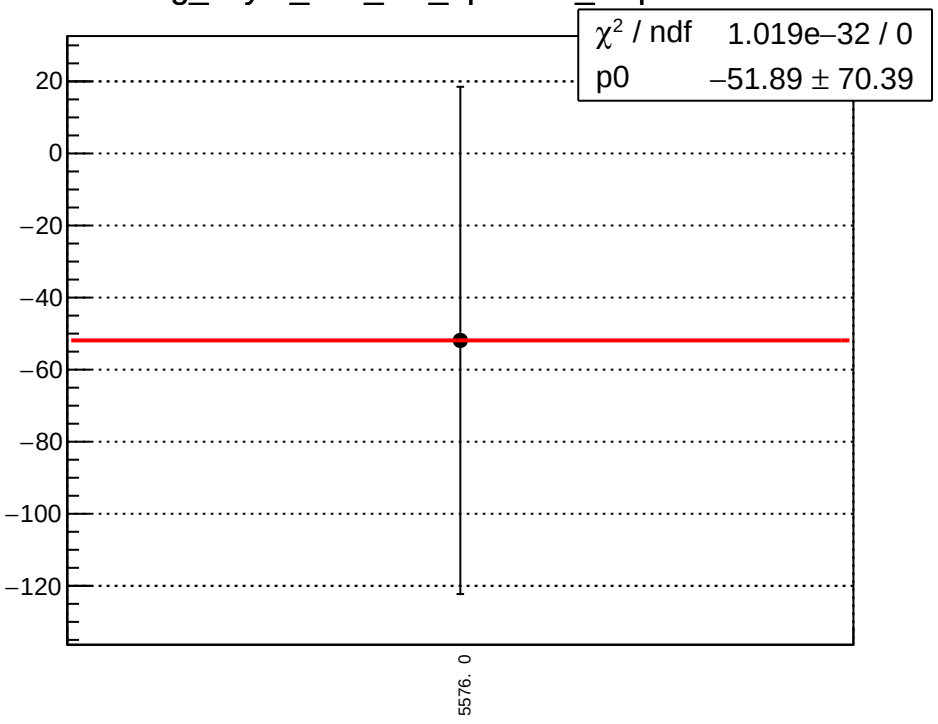

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −9.584 ± 9.383
0
−5
−10
−15
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

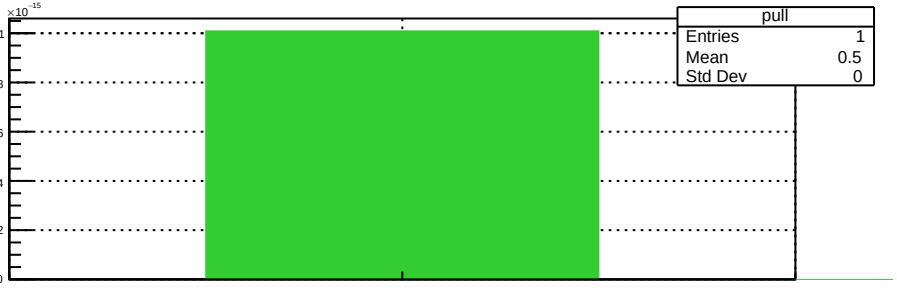

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −34.91 ± 17.02
−15
−20
−25
−30
−35
−40
−45
−50
−55
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

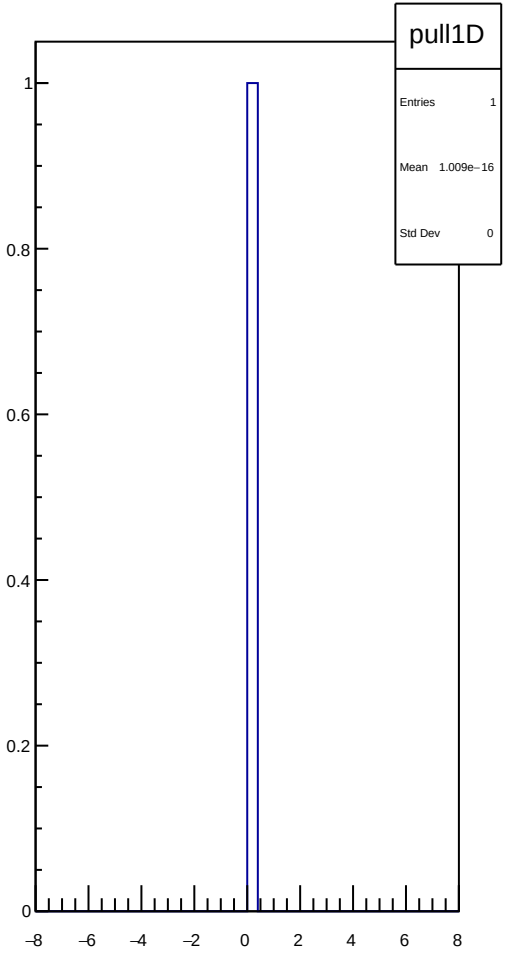

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −3.694 ± 12.5
10
5
0
−5
−10
−15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

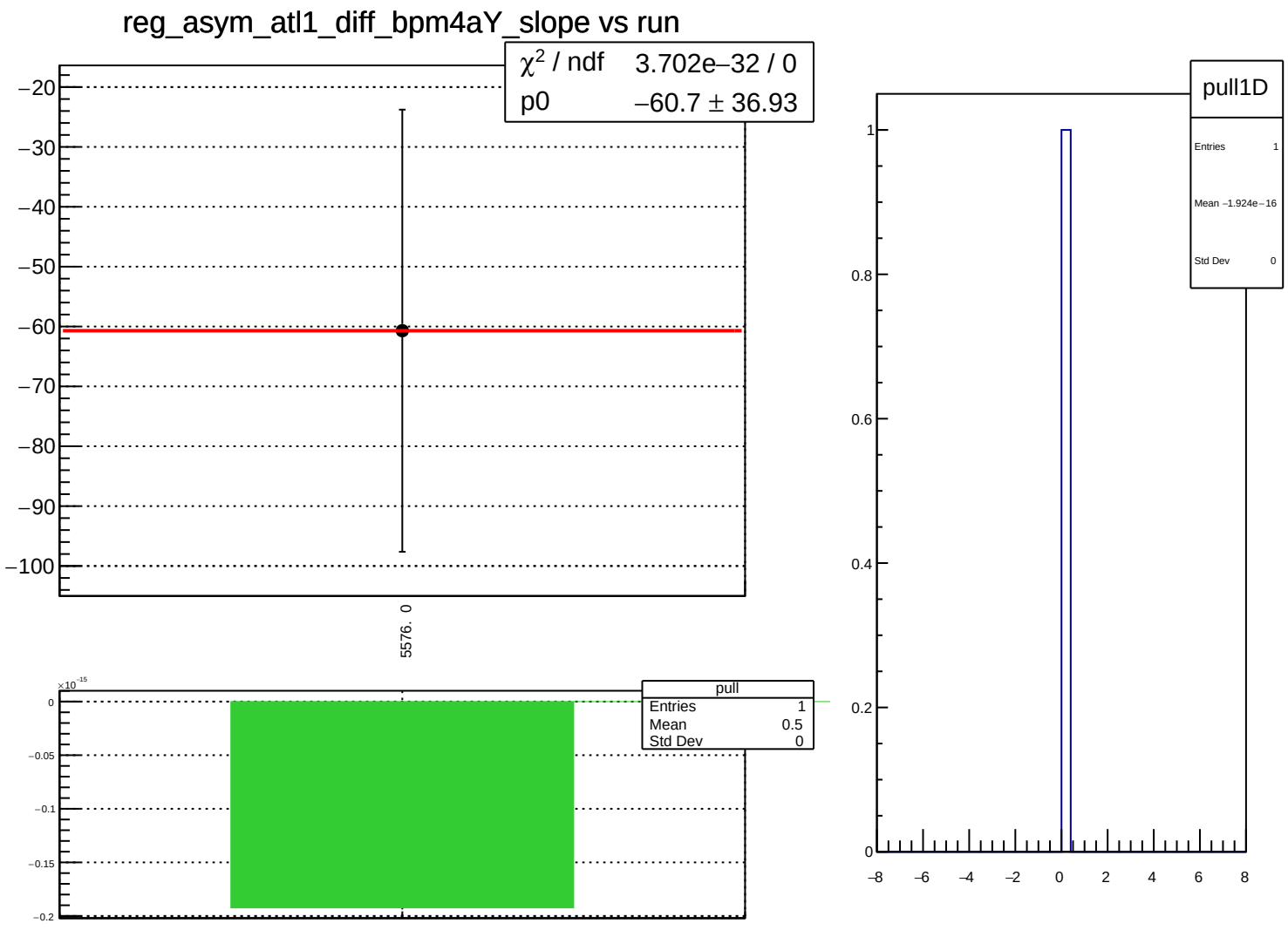

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.704e−32 / 0
p0 −0.7606 ± 0.5769
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
5576. 0
×10⁻¹⁵
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

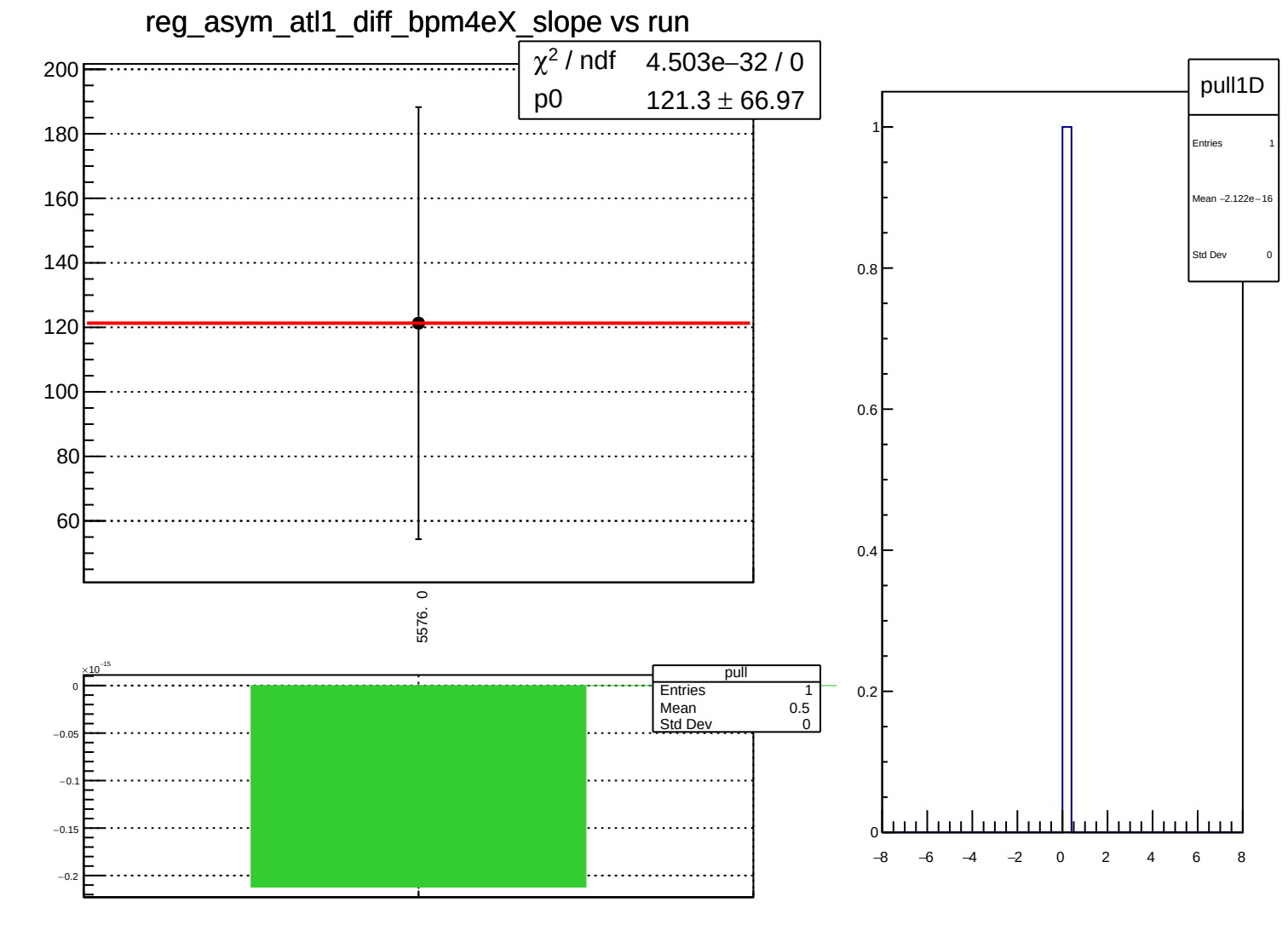

pull1D
Entries 1
Mean 1.925e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

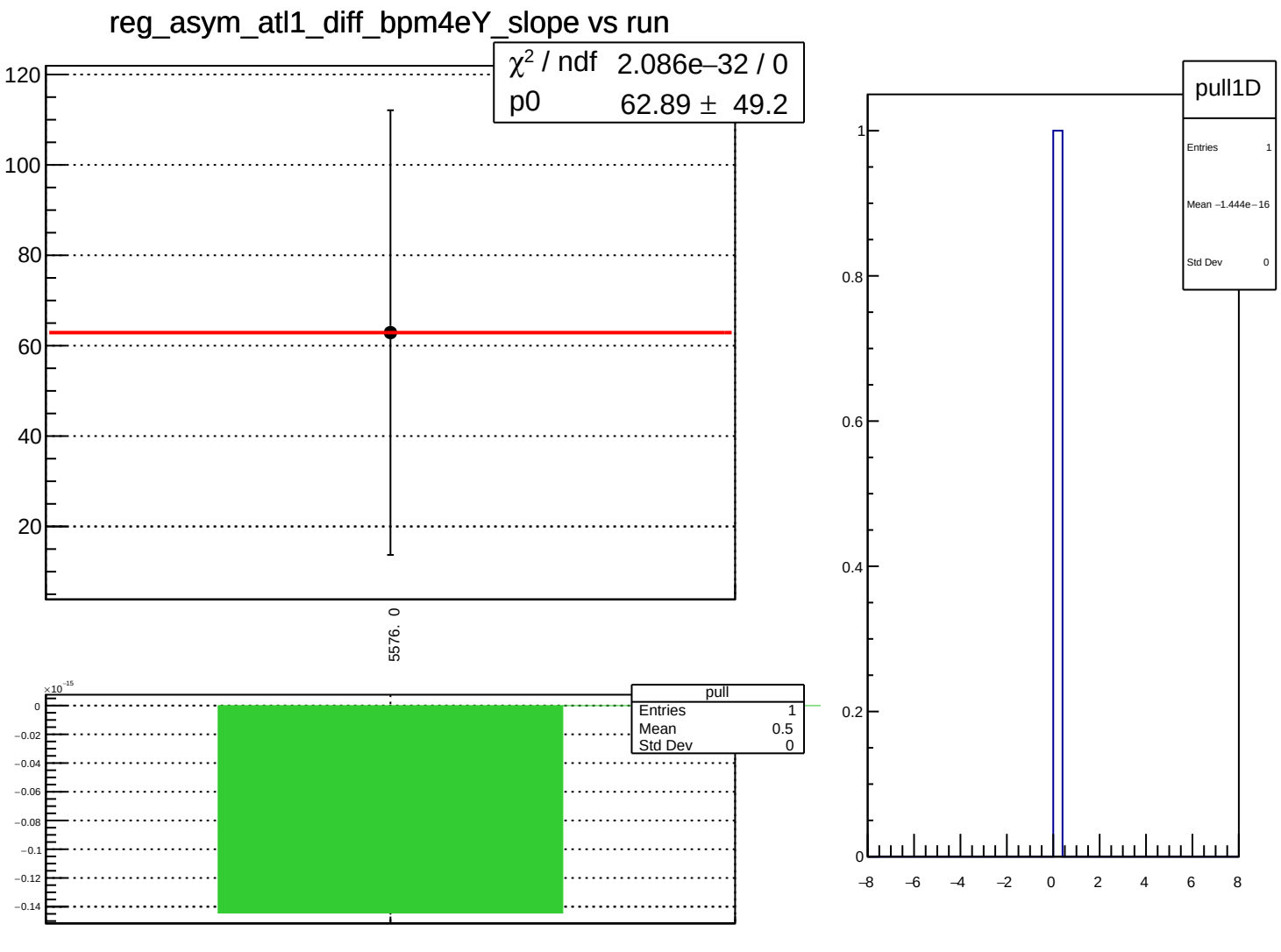

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 1.019e−32 / 0
p0 −51.89 ± 70.39
20
0
−20
−40
−60
−80
−100
−120
5576. 0

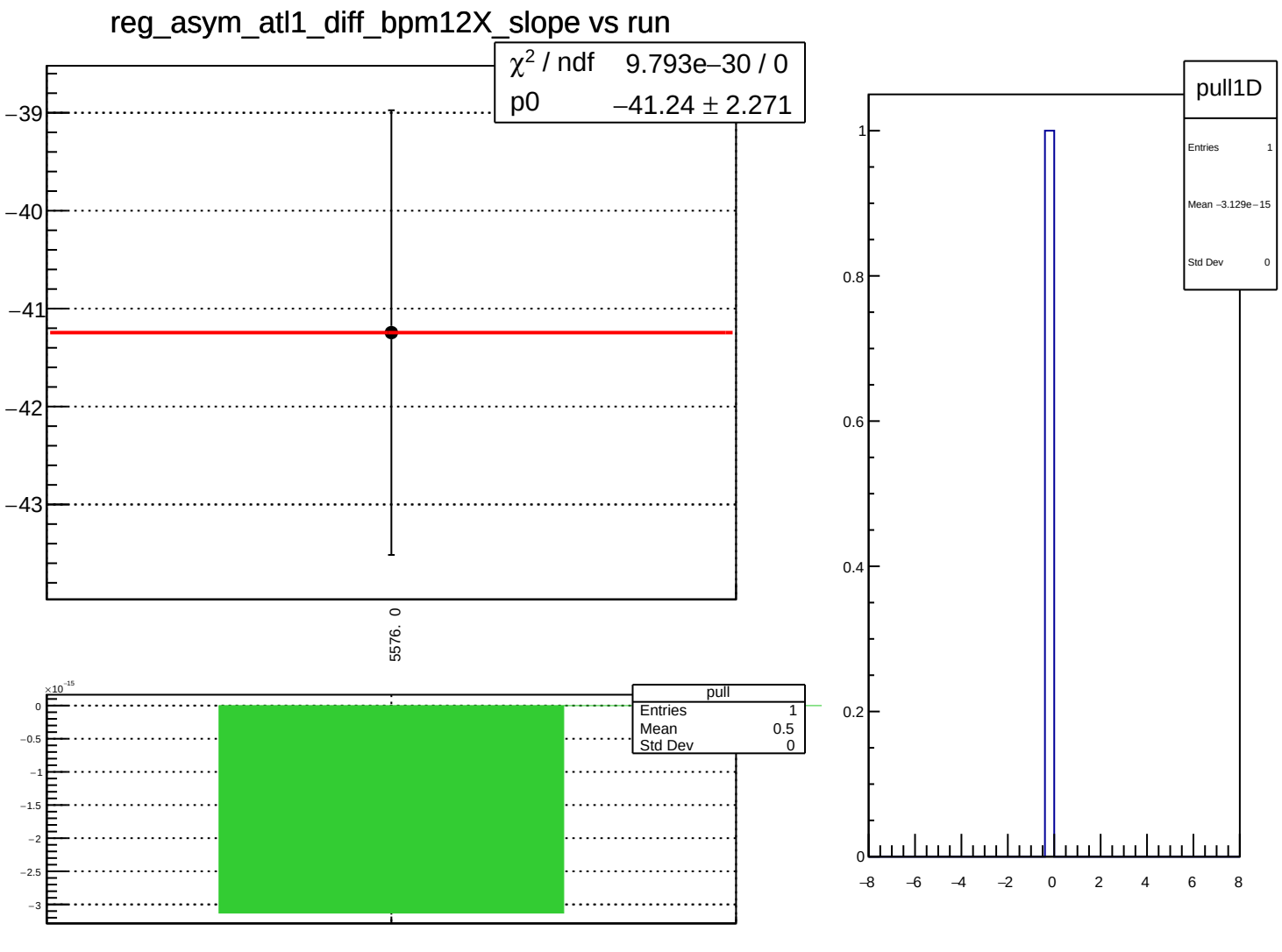

×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

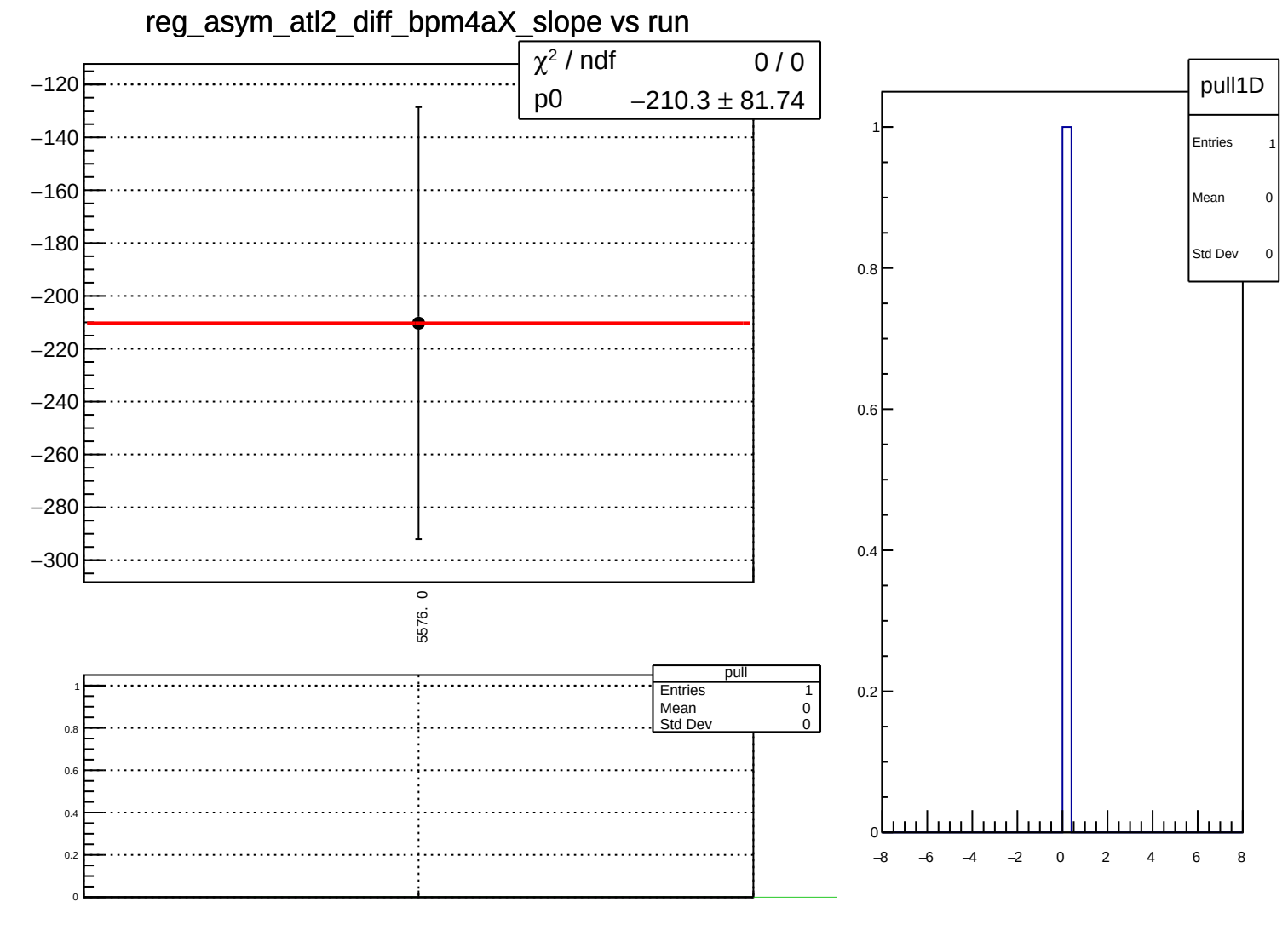

pull1D
Entries 1
Mean 1.009e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

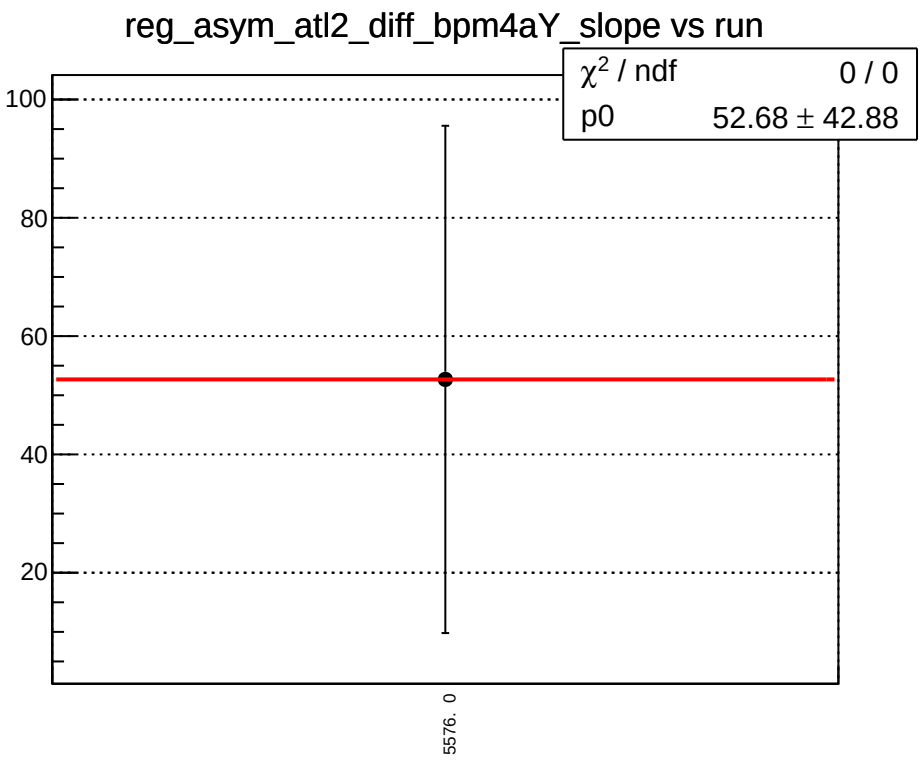

reg_asym_atl1_diff_bpm4aY_slope vs run
χ2 / ndf 3.702e−32 / 0
p0 −60.7 ± 36.93
−20
−30
−40
−50
−60
−70
−80
−90
−100
5576. 0
×10−15
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.924e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

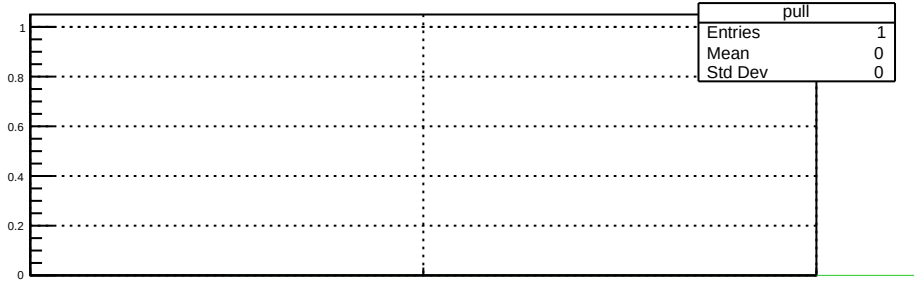

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 4.503e−32 / 0
p0 121.3 ± 66.97
200
180
160
140
120
100
80
60
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.122e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

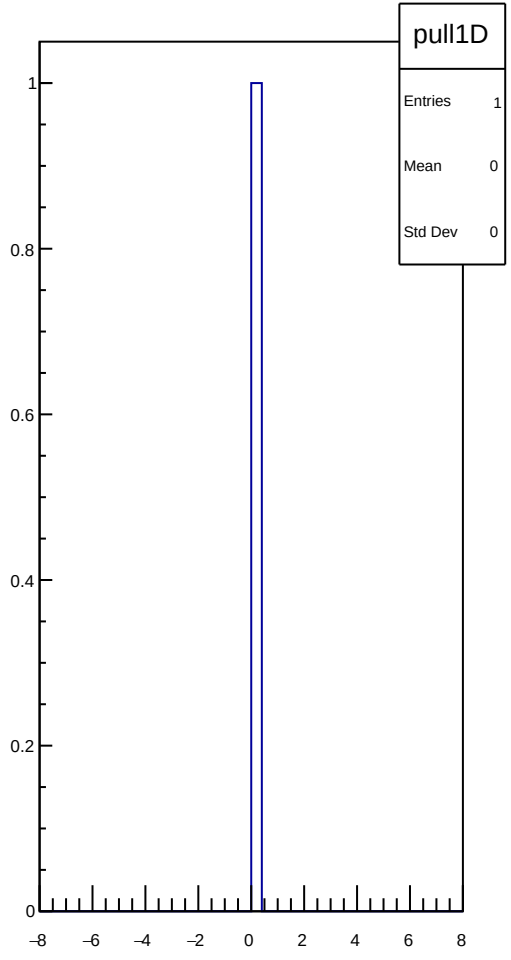

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 2.086e−32 / 0
p0 62.89 ± 49.2
120
100
80
60
40
20
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.444e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

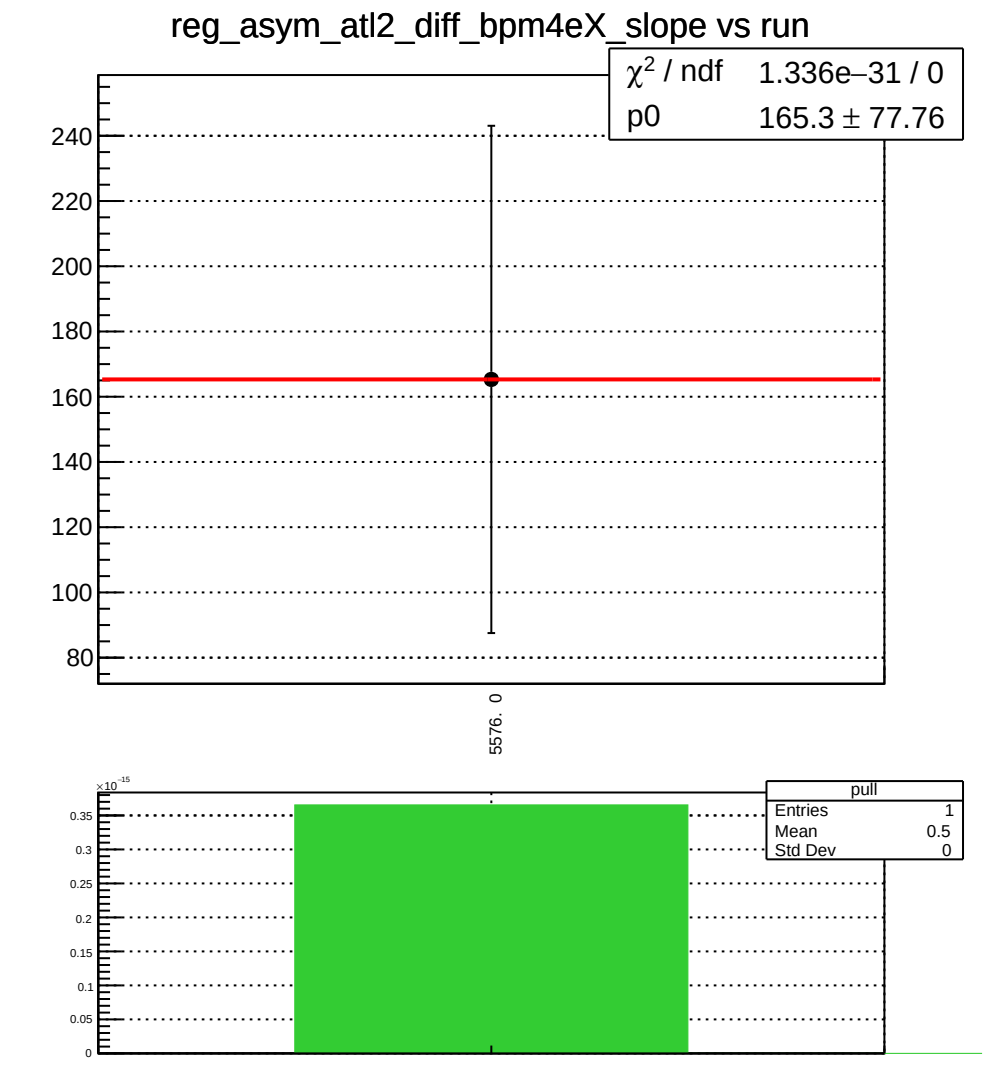

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 9.793e−30 / 0
p0 −41.24 ± 2.271
−39
−40
−41
−42
−43
5576. 0
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.129e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

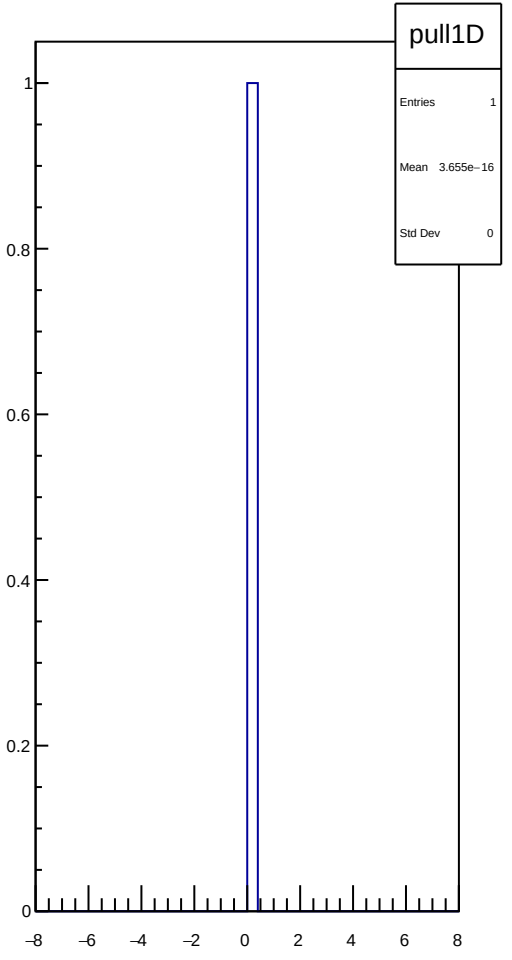

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −210.3 ± 81.74
−120
−140
−160
−180
−200
−220
−240
−260
−280
−300
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

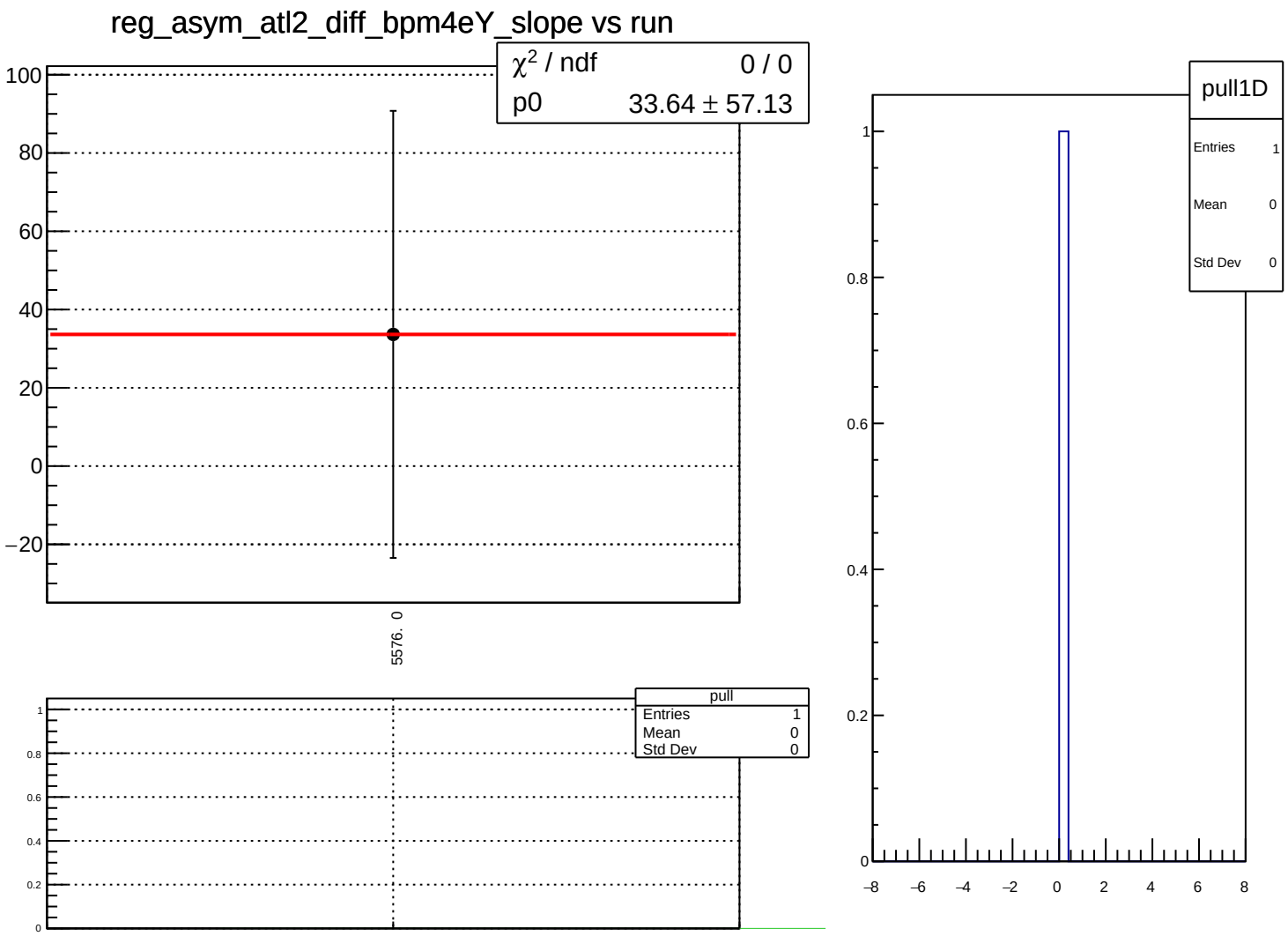

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 52.68 ± 42.88
100
80
60
40
20
5576. 0

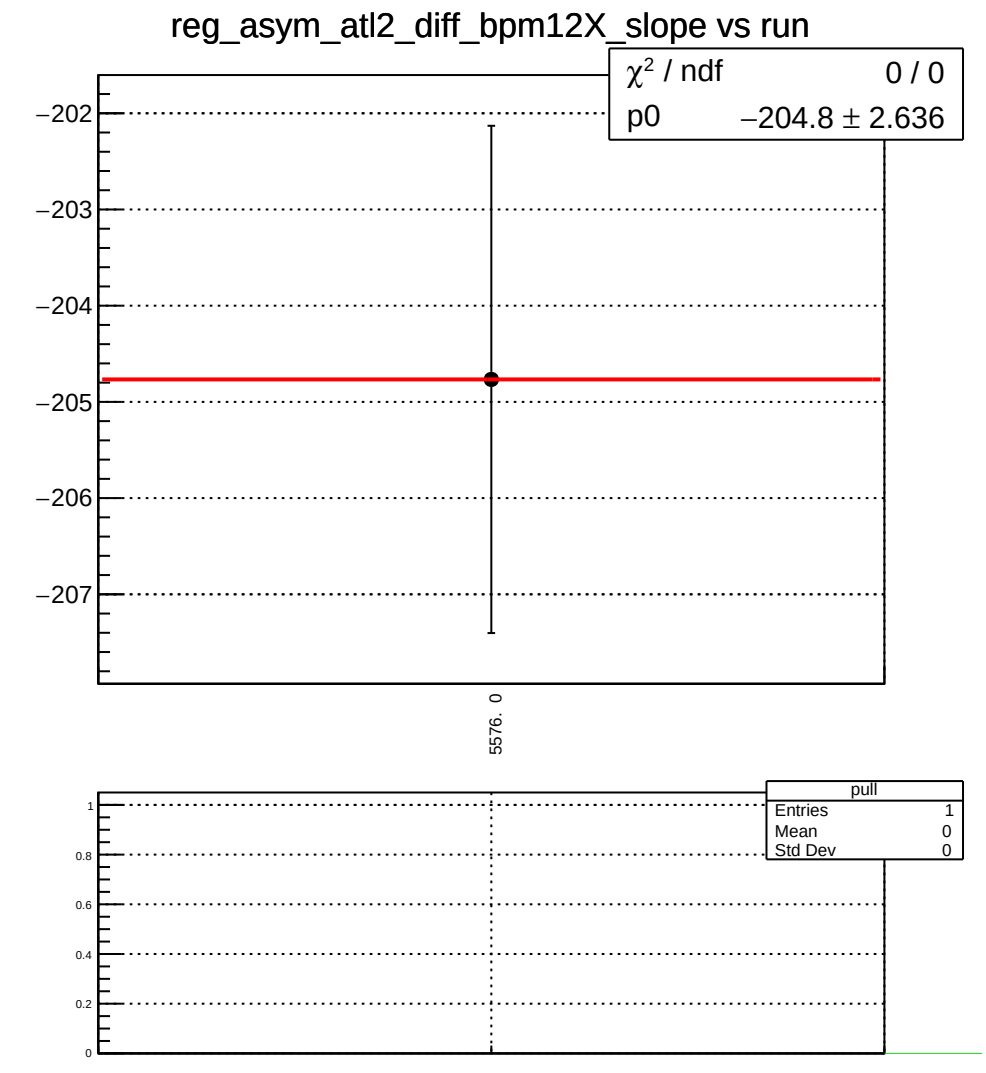

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

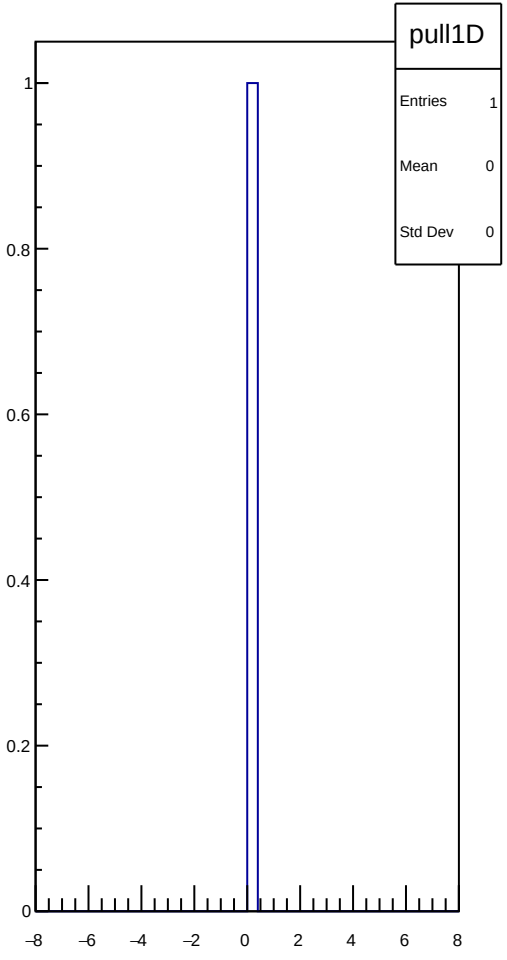

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

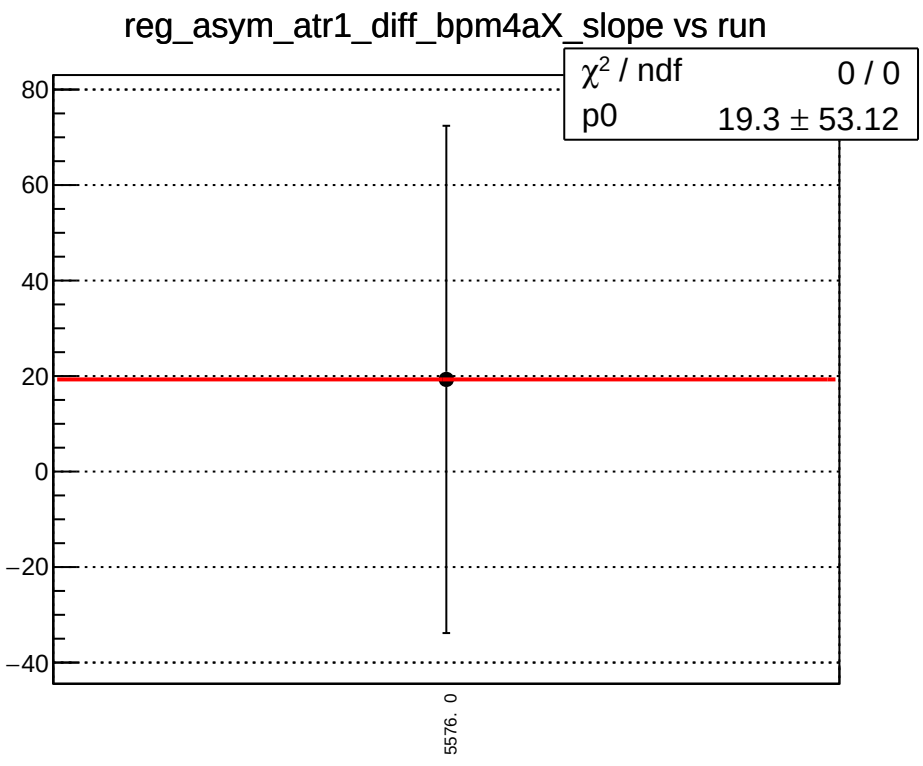

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.336e−31 / 0
p0 165.3 ± 77.76
240
220
200
180
160
140
120
100
80
5576. 0
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

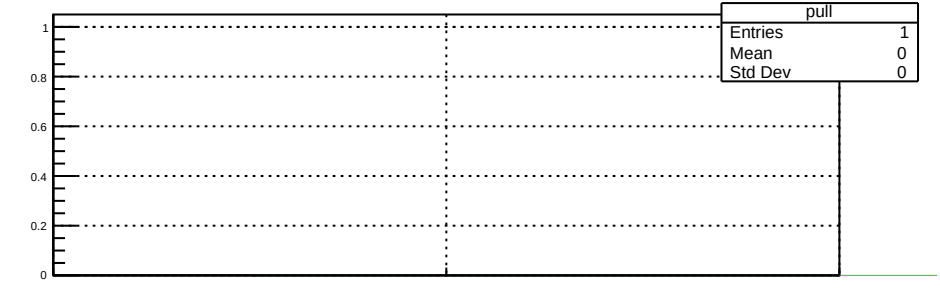

pull1D
Entries 1
Mean 3.655e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

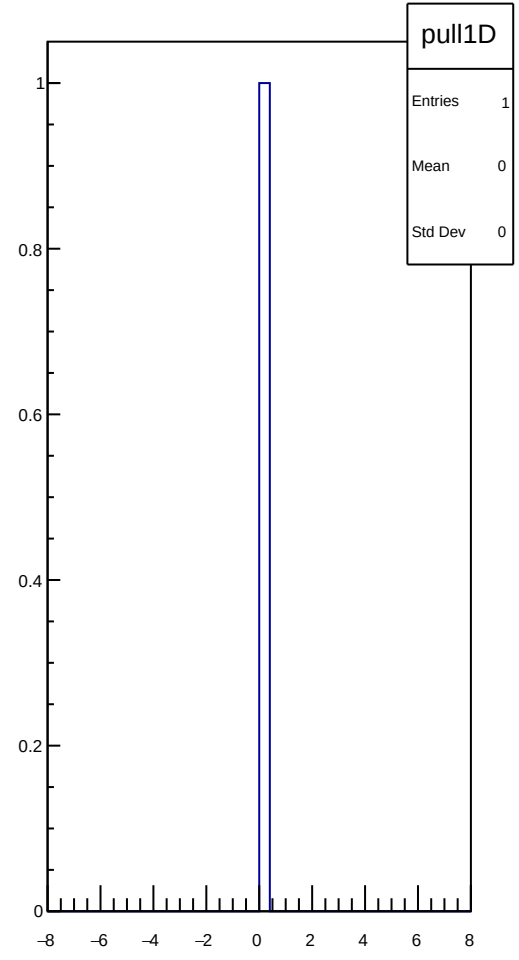

reg_asym_atl2_diff_bpm4eY_slope vs run
χ2 / ndf 0 / 0
p0 33.64 ± 57.13
100
80
60
40
20
0
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

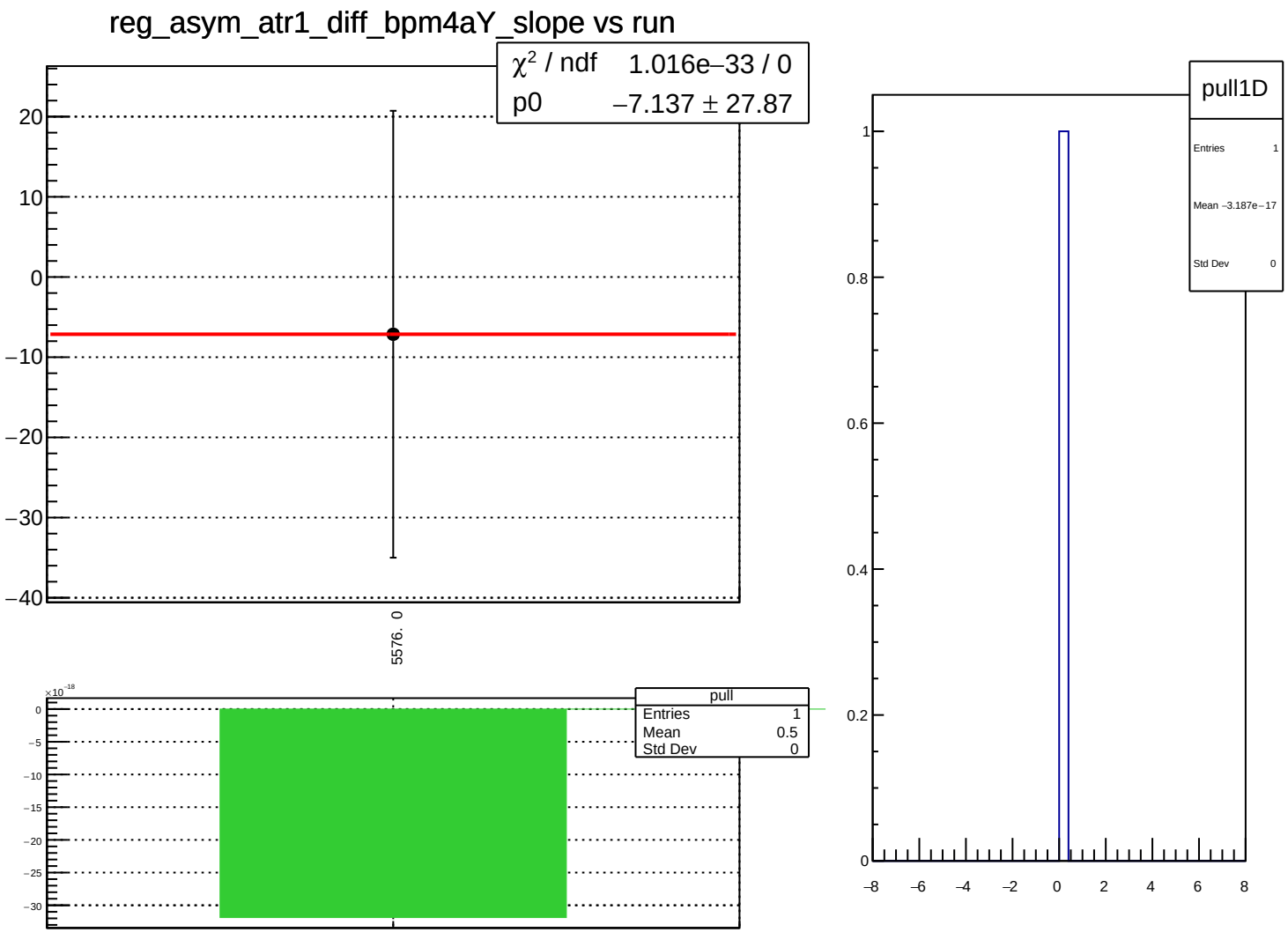

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −204.8 ± 2.636
−202
−203
−204
−205
−206
−207
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

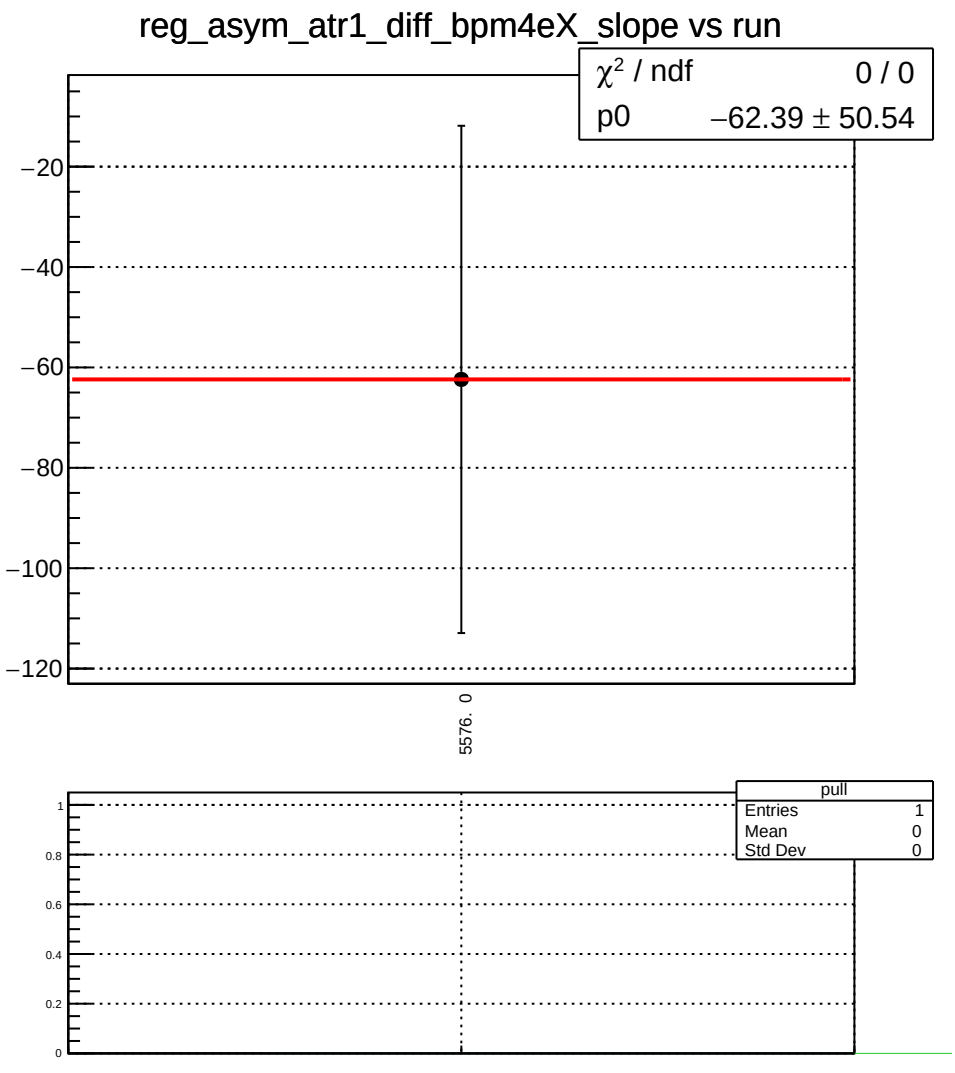

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

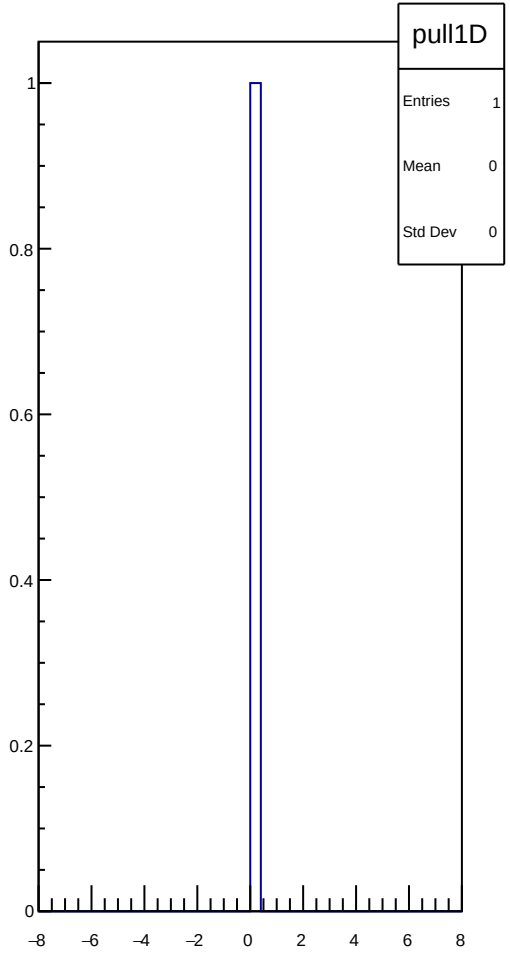

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 19.3 ± 53.12
80
60
40
20
0
−20
−40
5576. 0

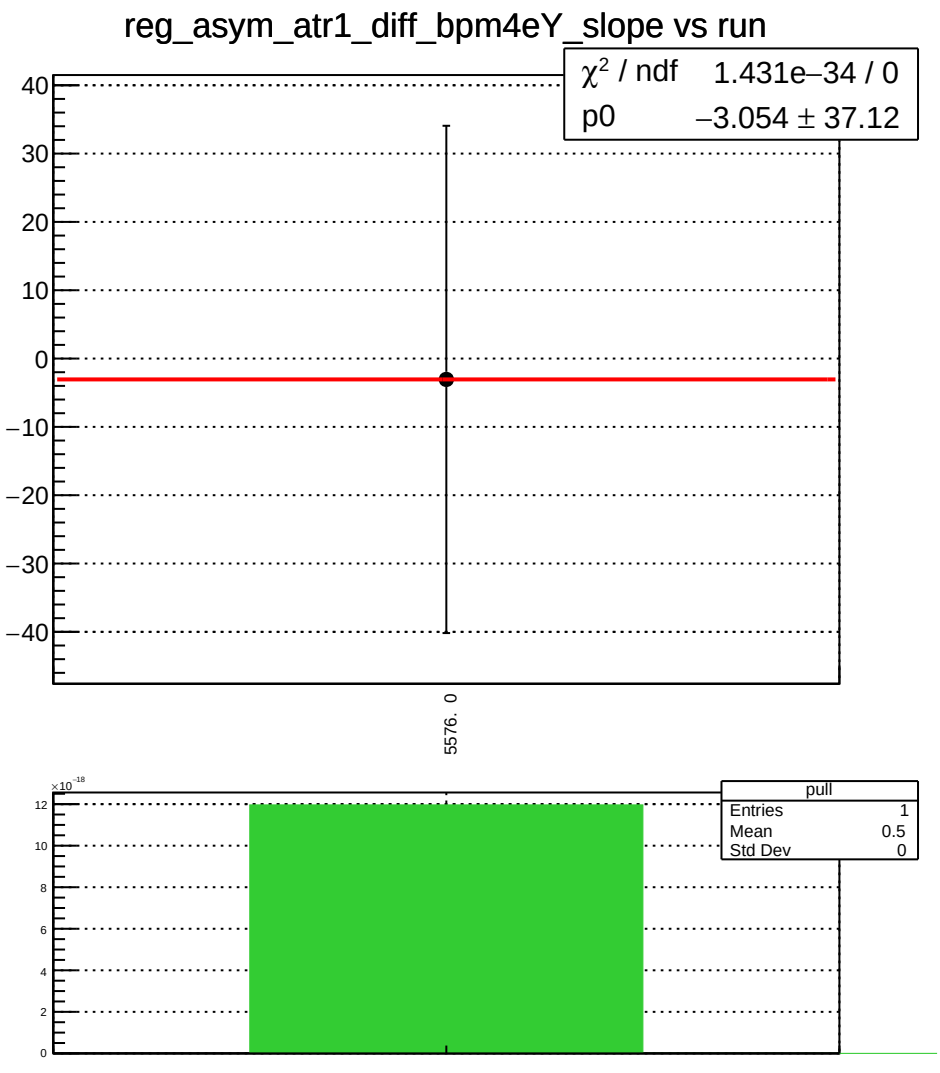

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

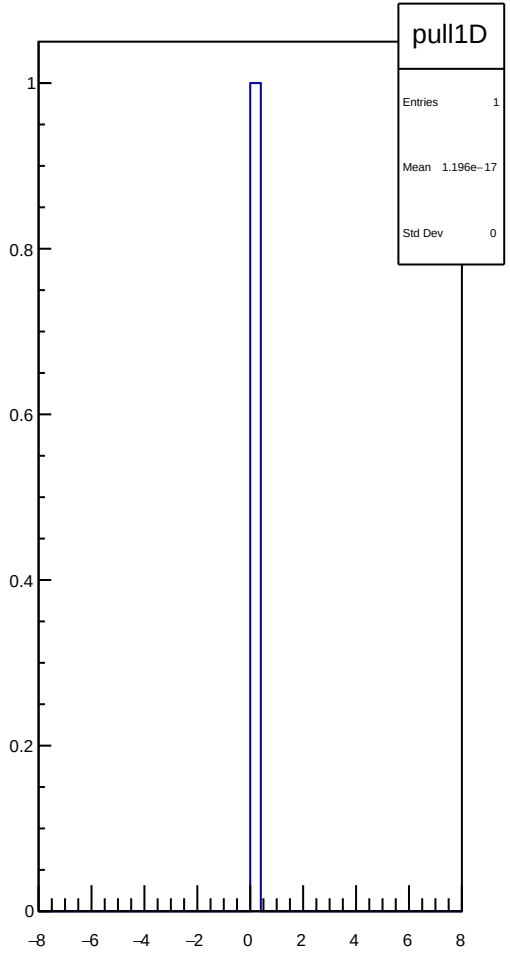

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

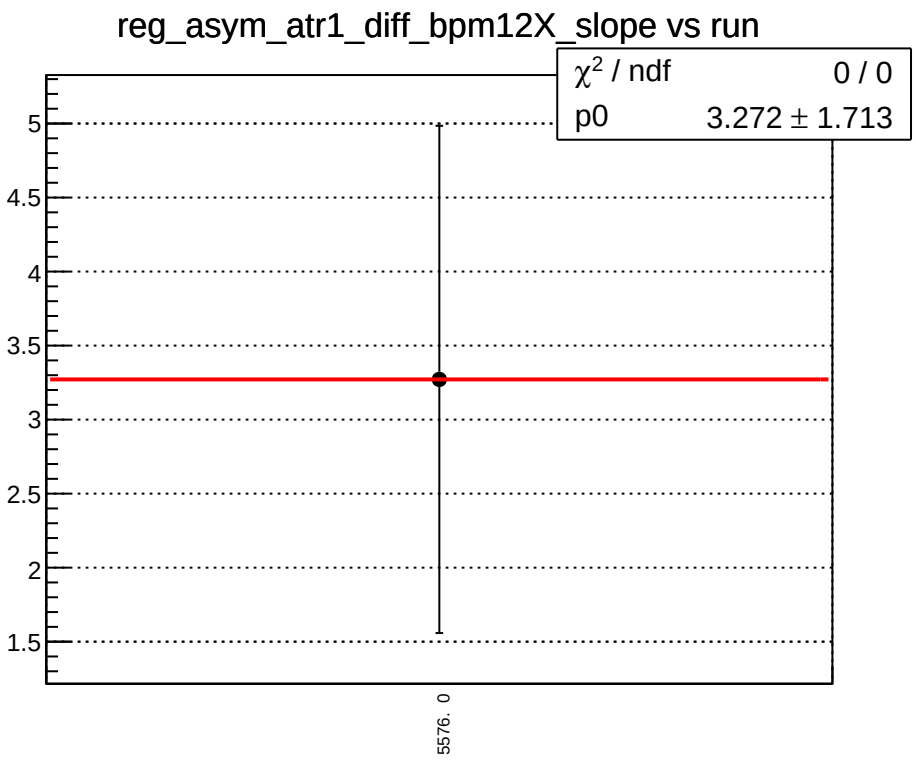

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 1.016e−33 / 0
p0 −7.137 ± 27.87
20
10
0
−10
−20
−30
−40
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.187e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −62.39 ± 50.54
−20
−40
−60
−80
−100
−120
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

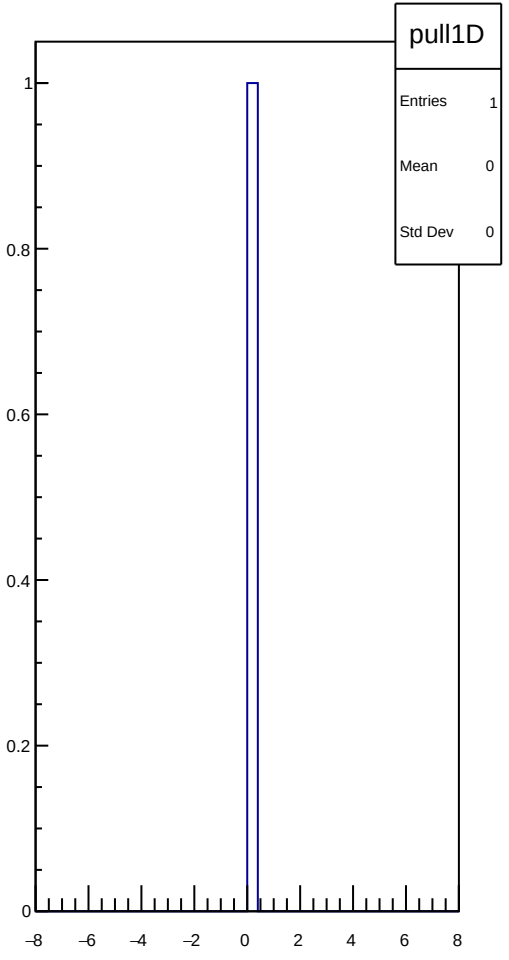

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

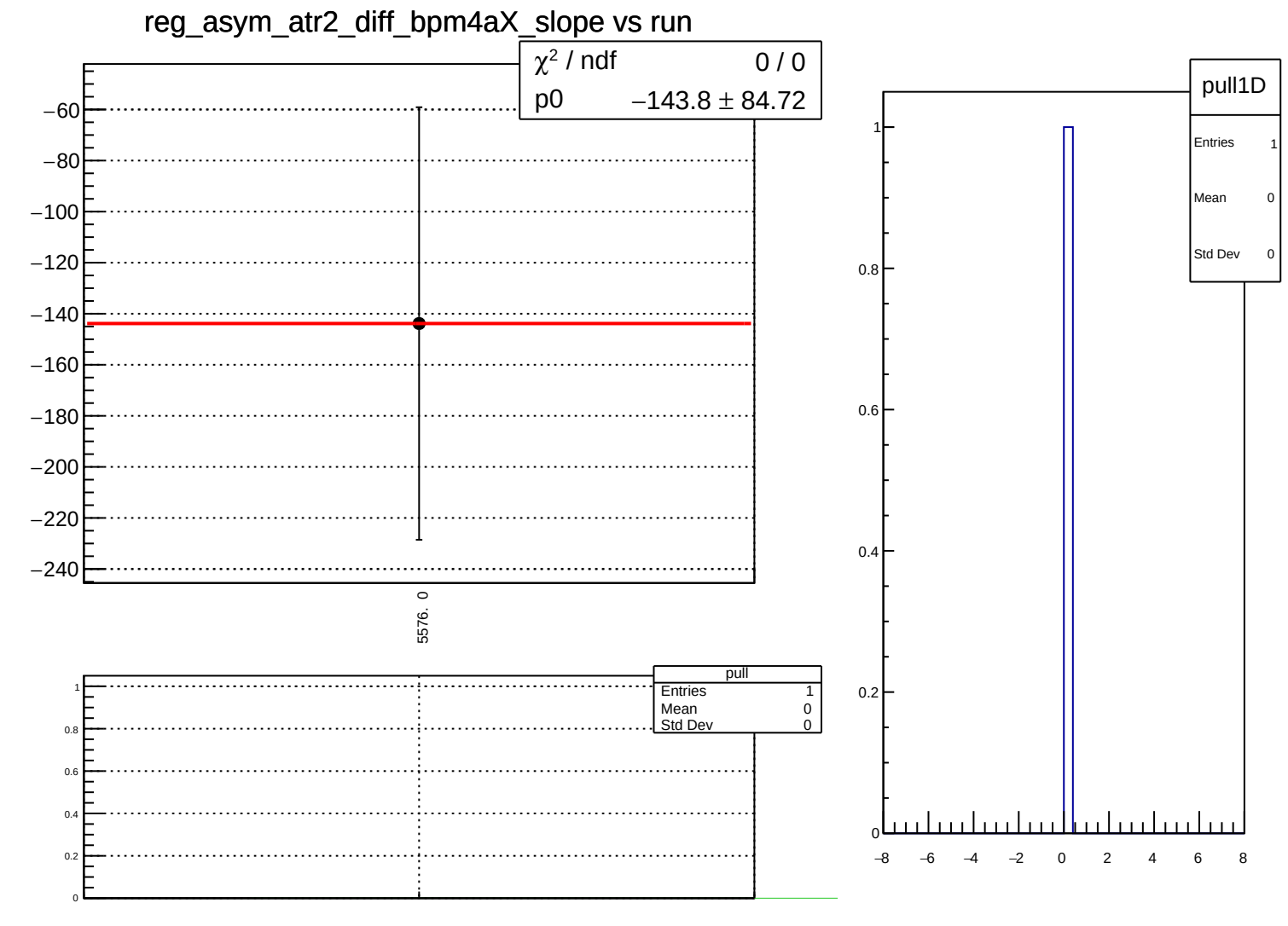

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 1.431e−34 / 0
p0 −3.054 ± 37.12
40
30
20
10
0
−10
−20
−30
−40
5576. 0
×10⁻¹⁸
12
10
8
6
4
2
0
pull
Entries 1
Mean 0.5
Std Dev 0

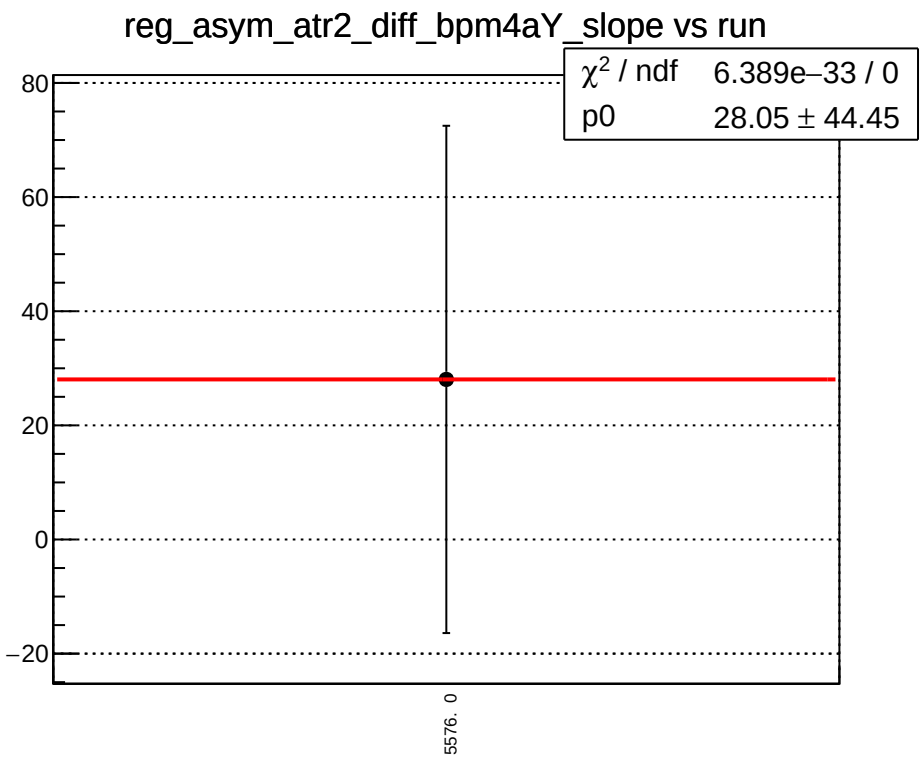

pull1D
Entries 1
Mean 1.196e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

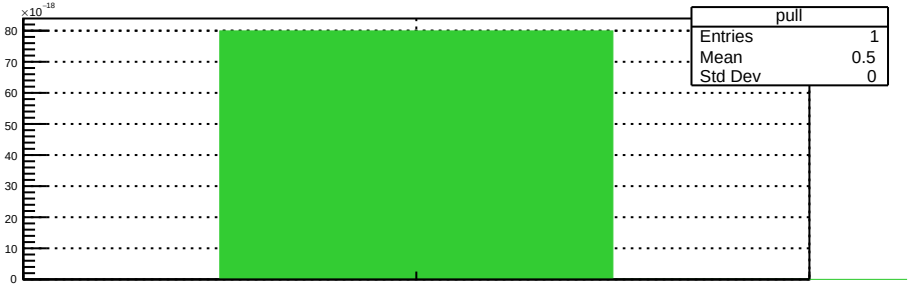

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 3.272 ± 1.713
5
4.5
4
3.5
3
2.5
2
1.5
5576. 0

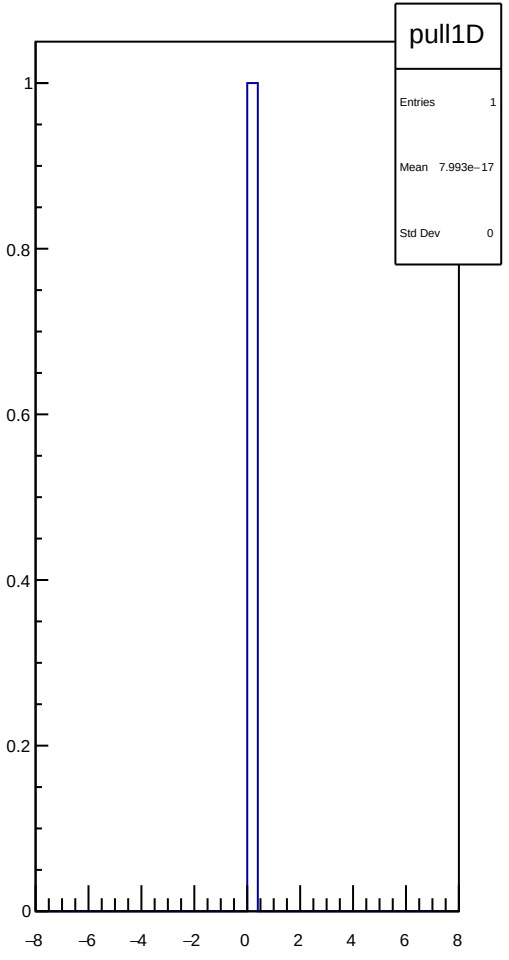
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

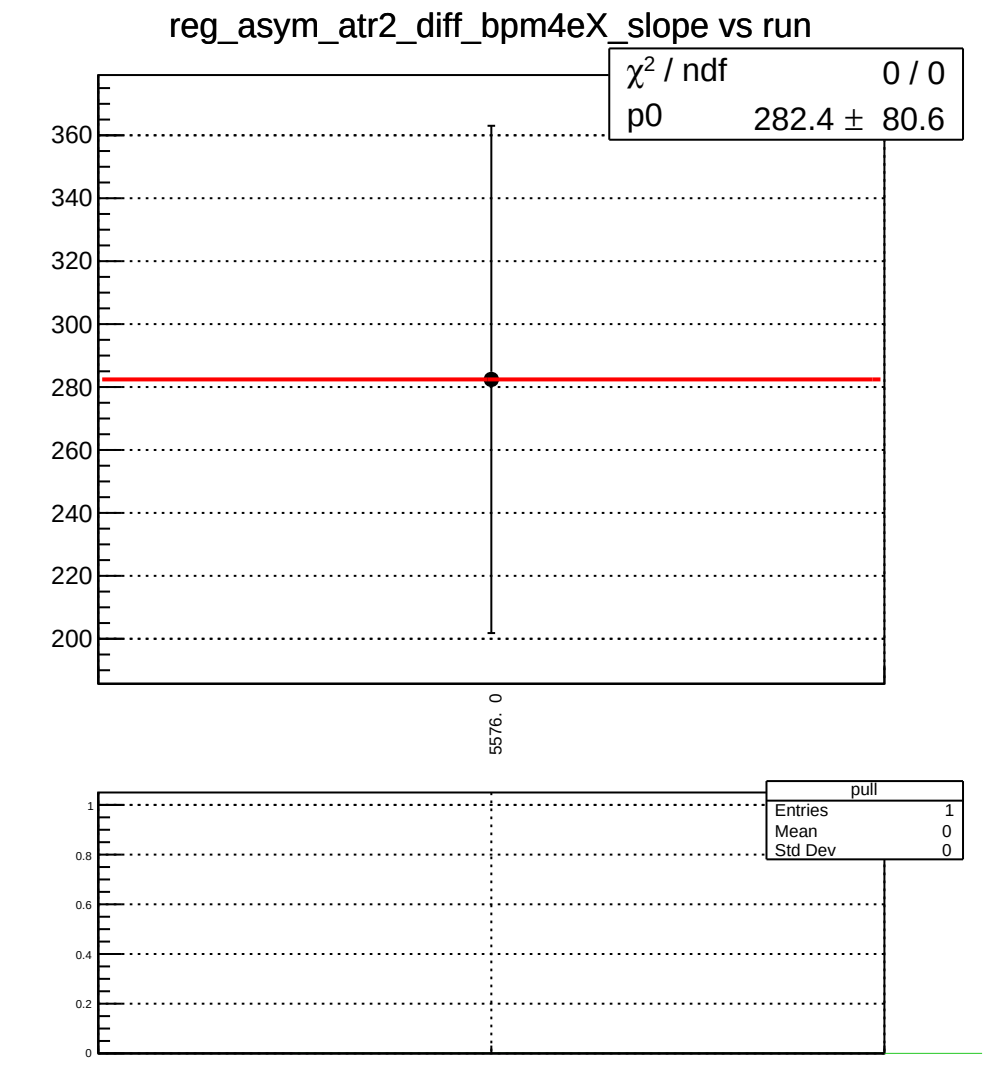

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

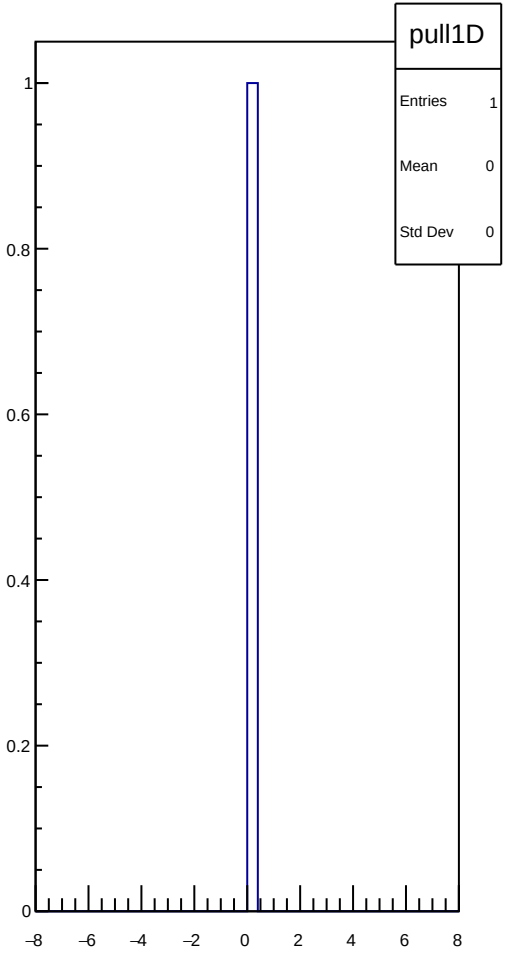

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −143.8 ± 84.72
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

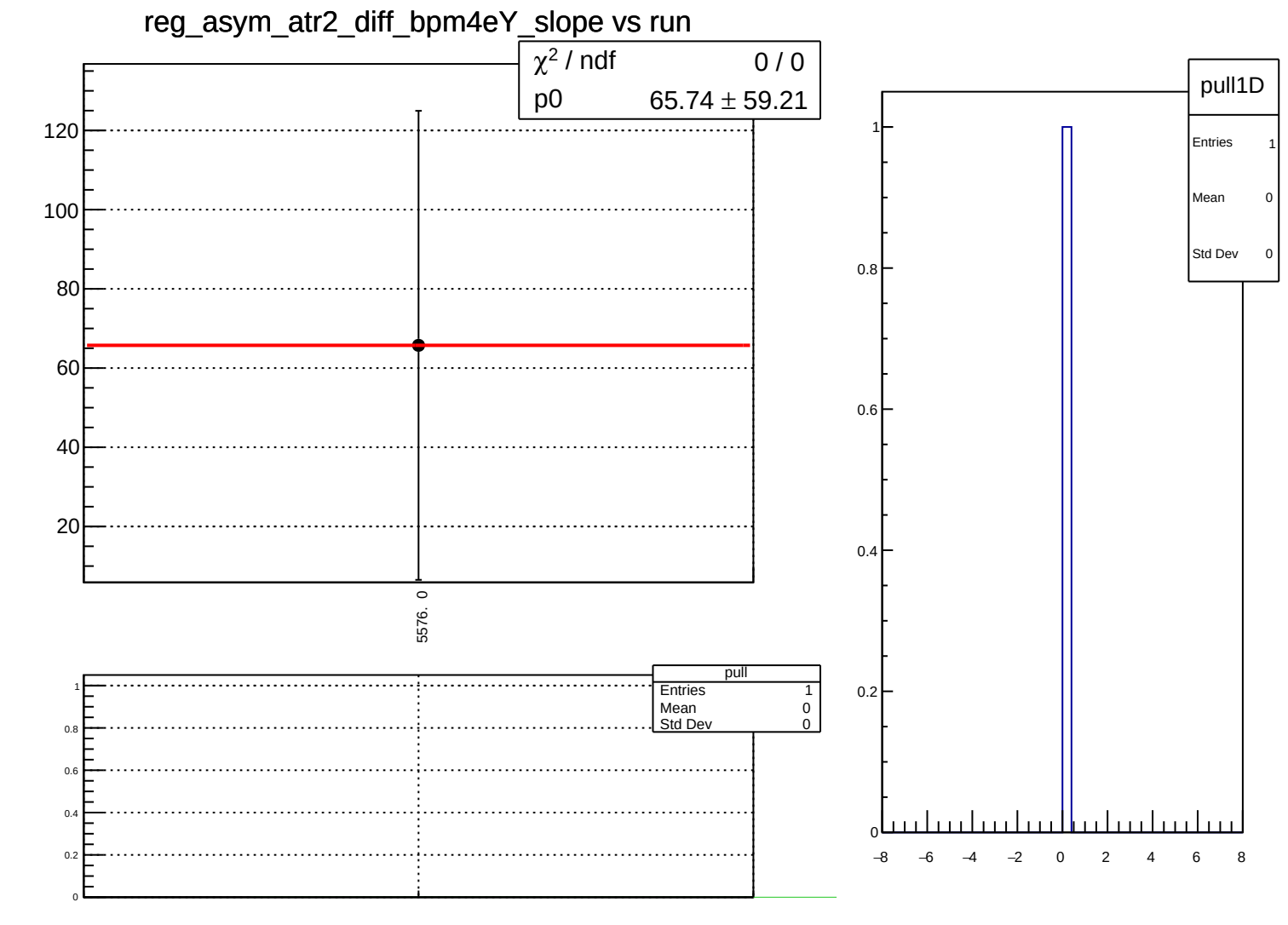

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 6.389e−33 / 0
p0 28.05 ± 44.45
80
60
40
20
0
−20
5576. 0

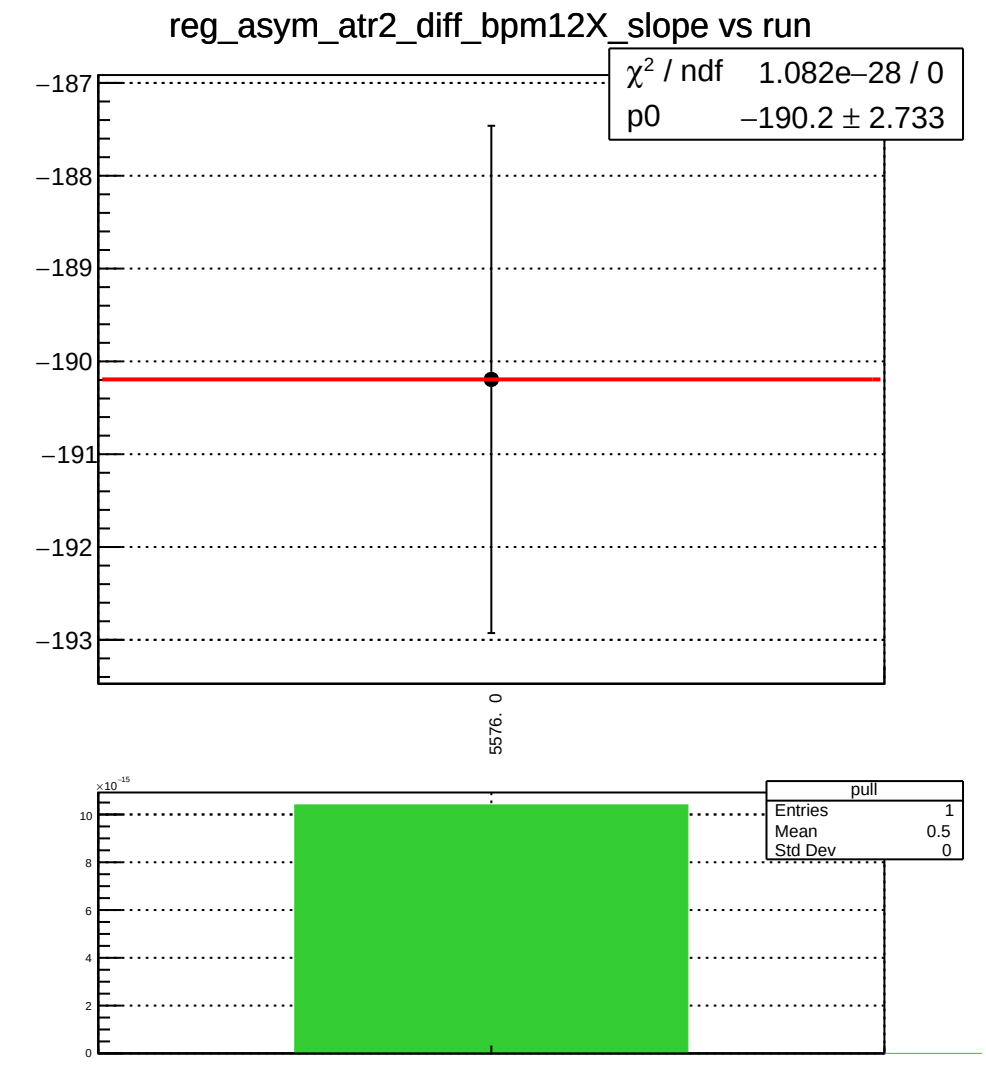

×10⁻¹⁸
80
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

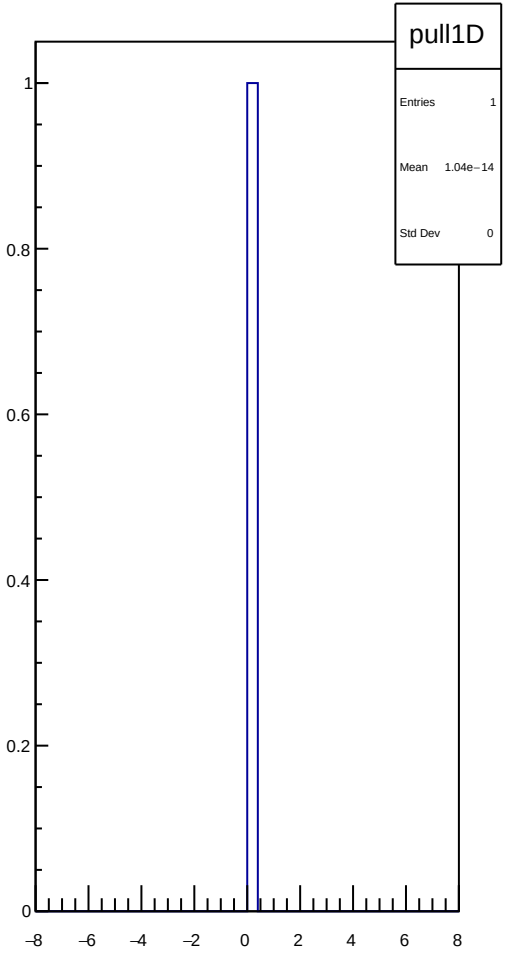

pull1D
Entries 1
Mean 7.993e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

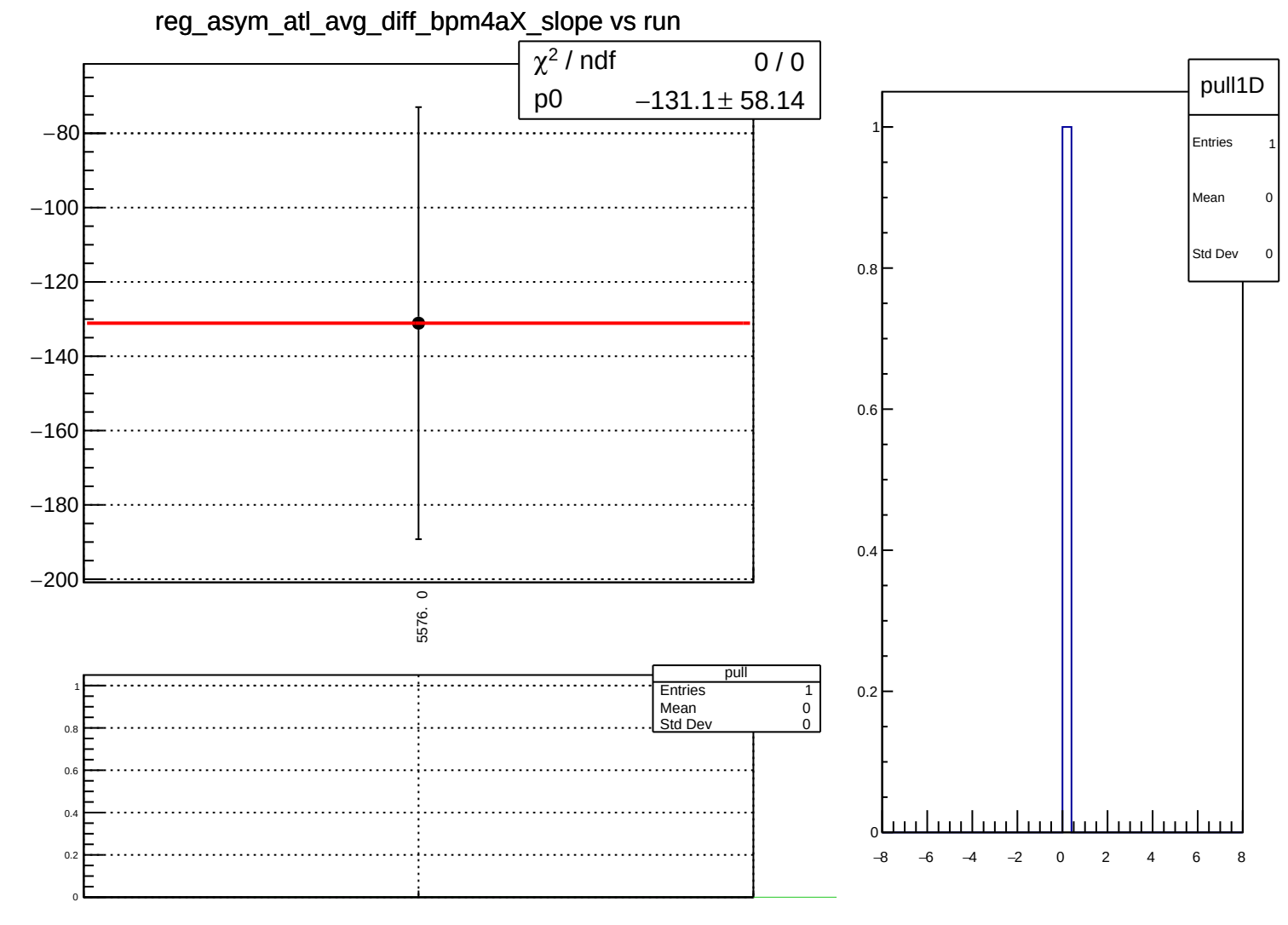

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 282.4 ± 80.6
360
340
320
300
280
260
240
220
200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

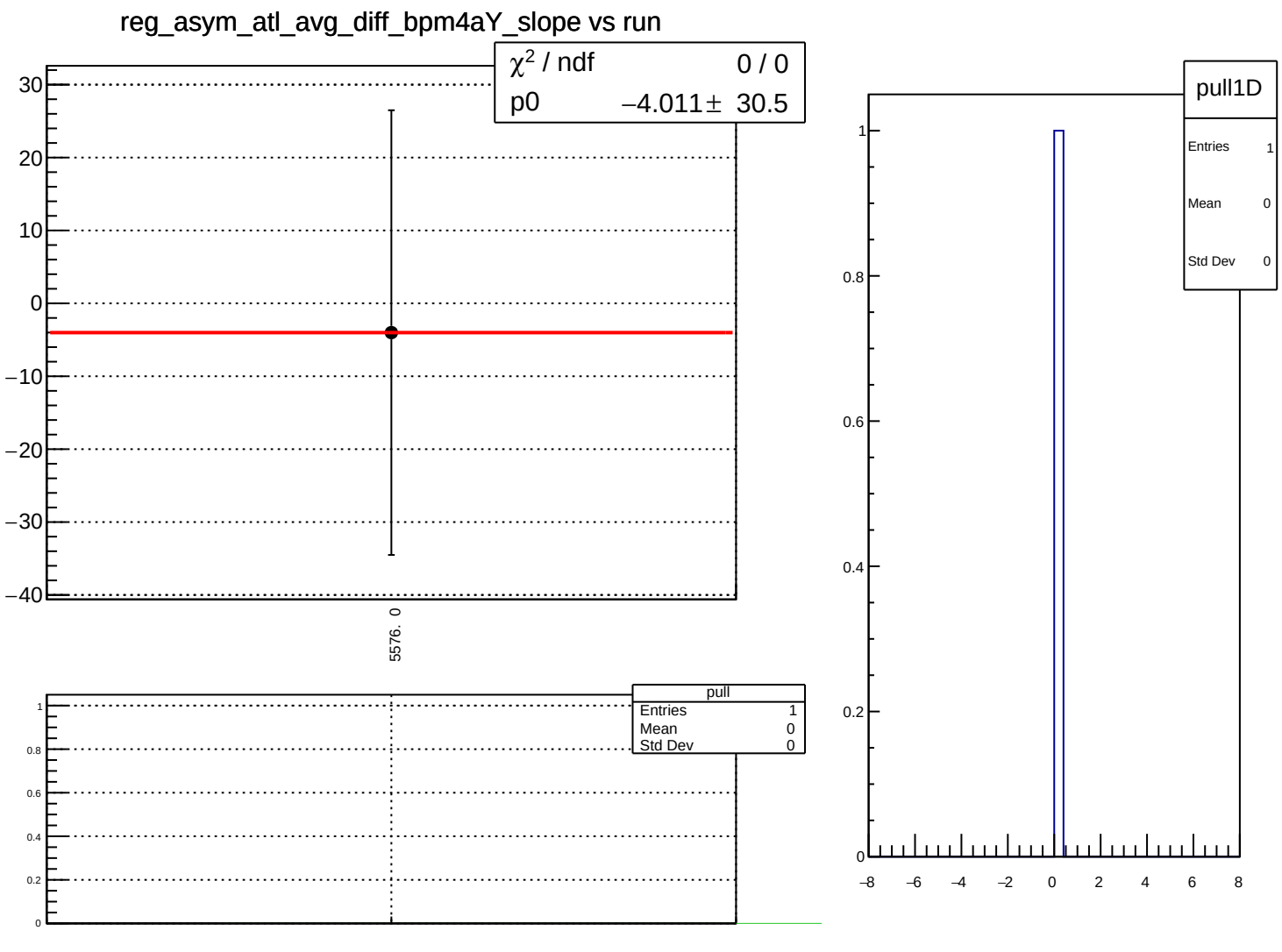

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

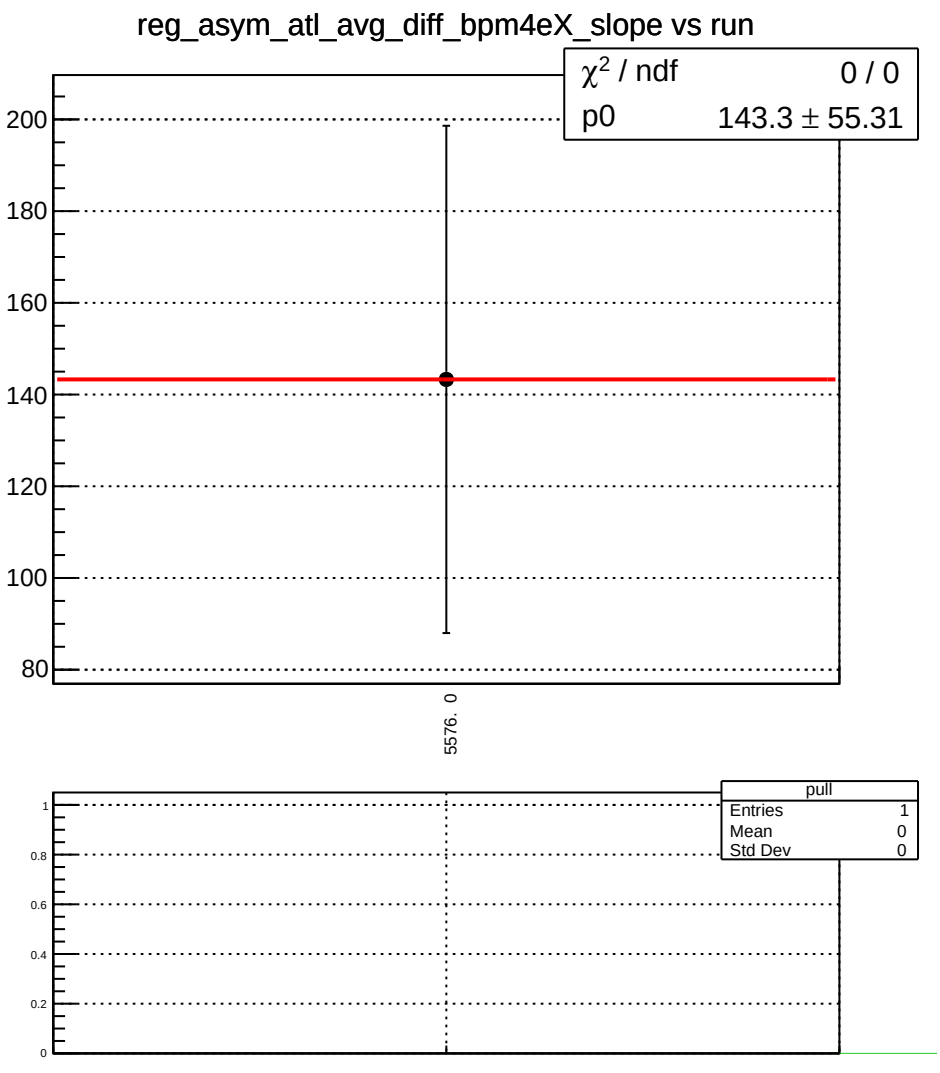

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 65.74 ± 59.21
120
100
80
60
40
20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

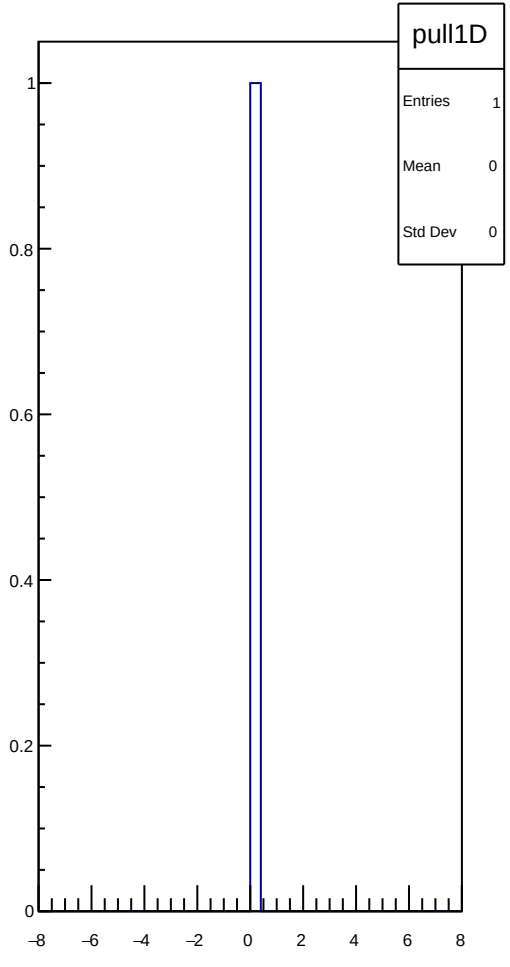

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 1.082e−28 / 0
p0 −190.2 ± 2.733
−187
−188
−189
−190
−191
−192
−193
5576. 0
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 1
Mean 0.5
Std Dev 0

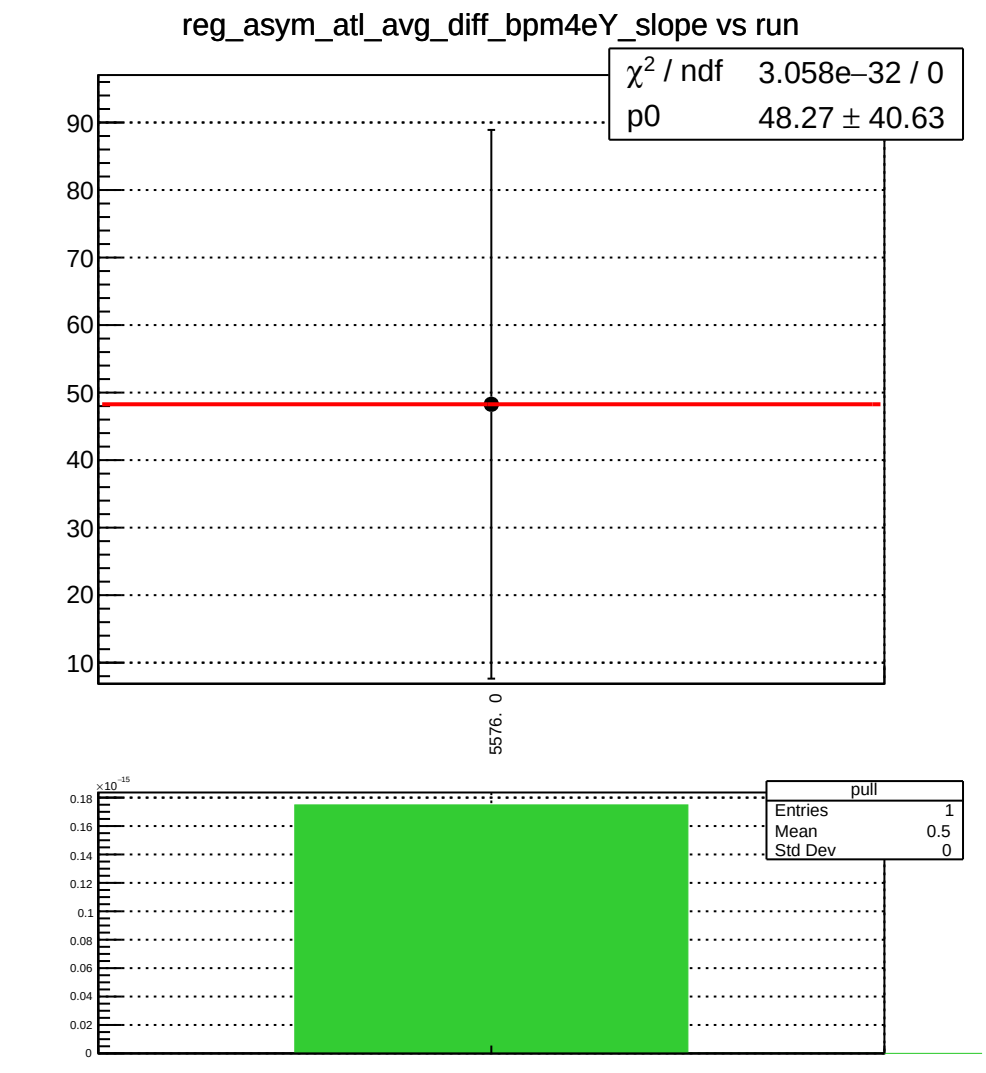

pull1D
Entries 1
Mean 1.04e−14
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

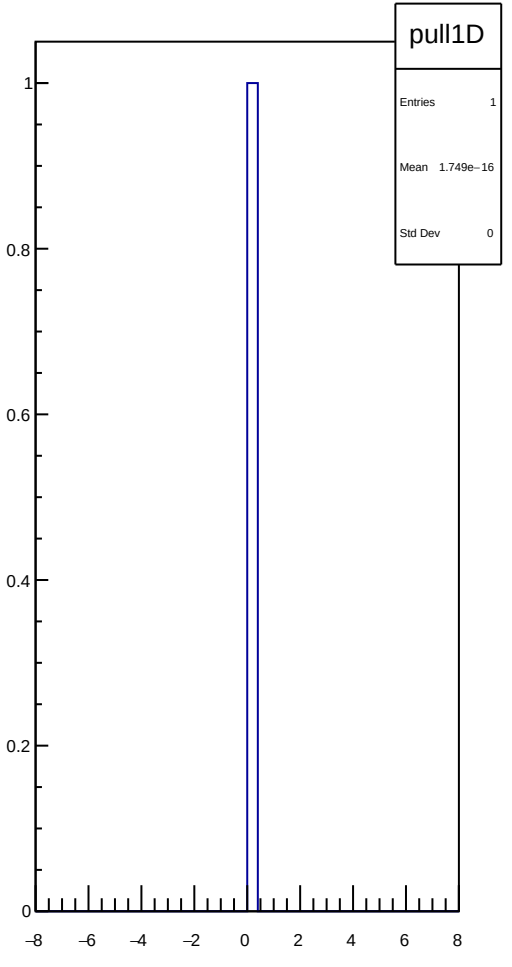

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −131.1 ± 58.14
−80
−100
−120
−140
−160
−180
−200
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

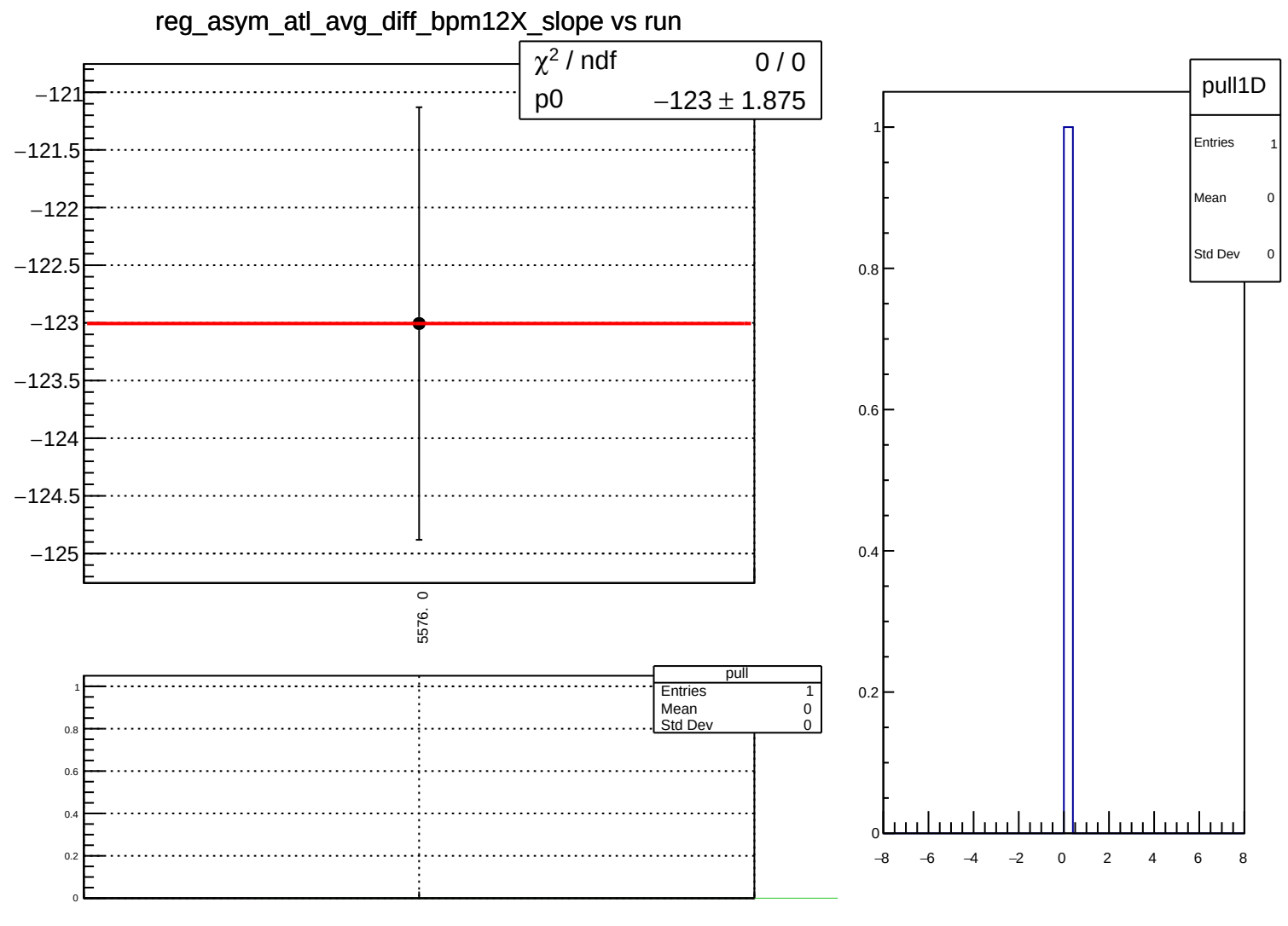

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ2 / ndf 0 / 0
p0 −4.011± 30.5
30
20
10
0
−10
−20
−30
−40
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

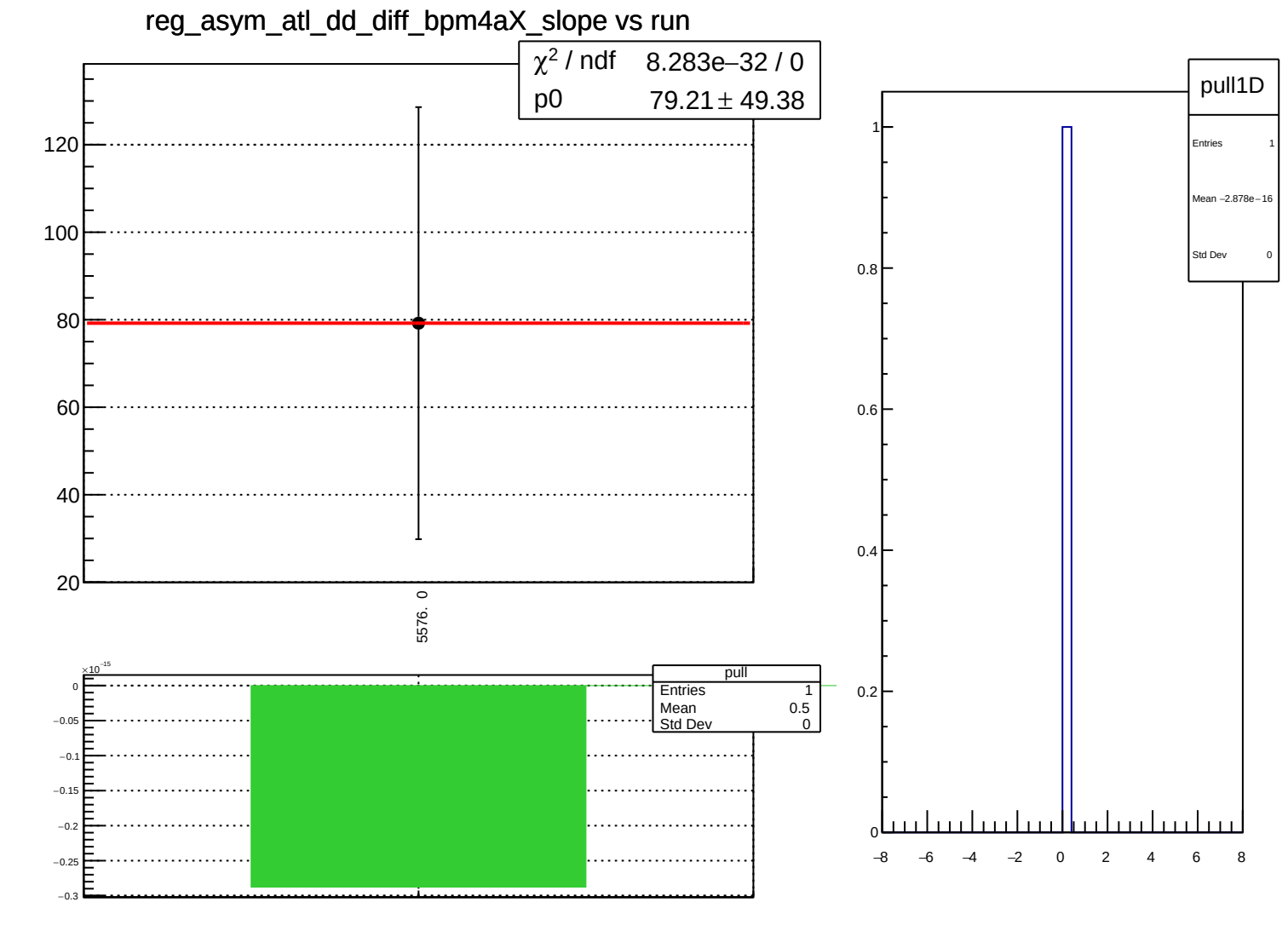

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 143.3 ± 55.31
200
180
160
140
120
100
80
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

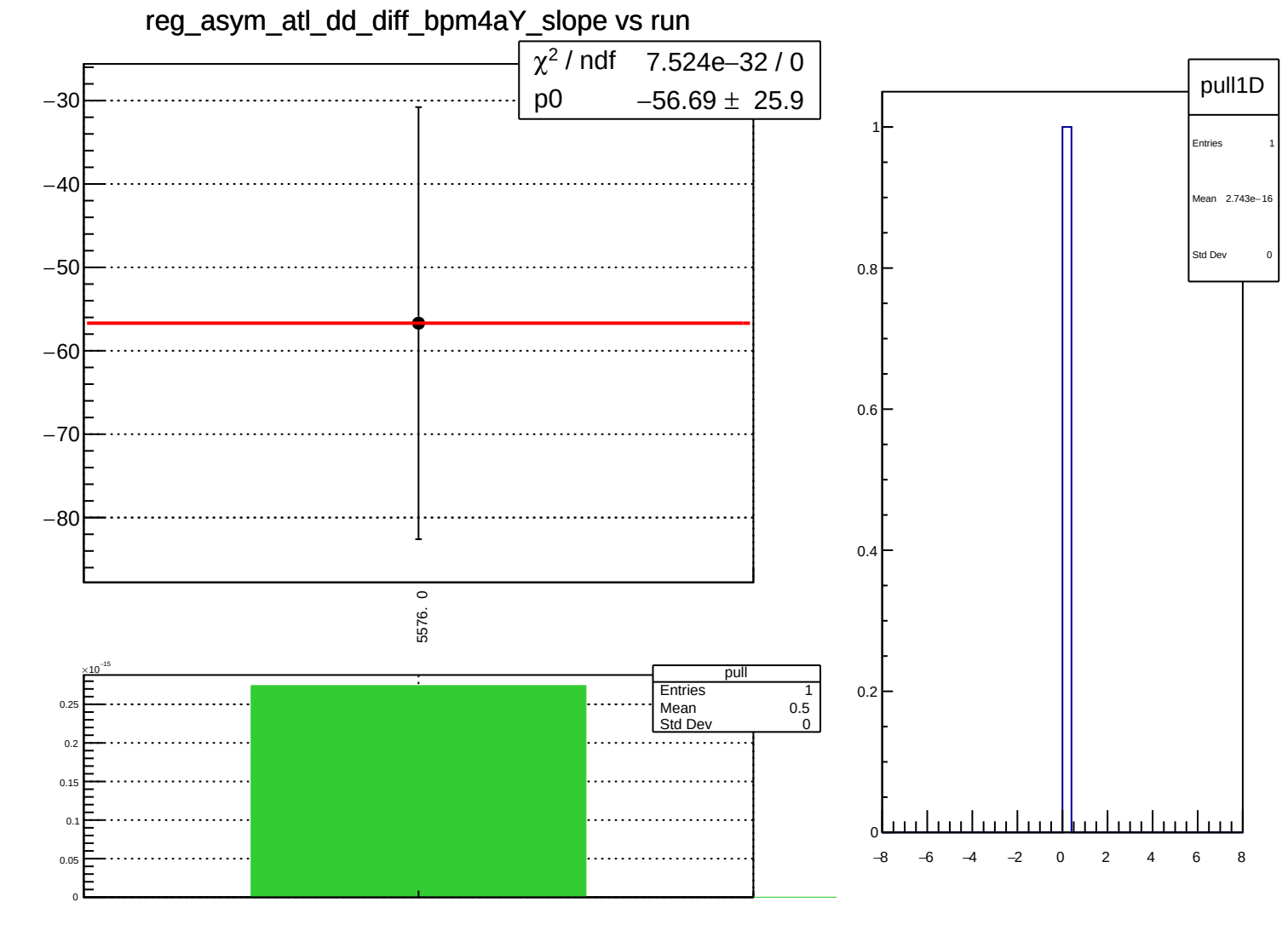

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

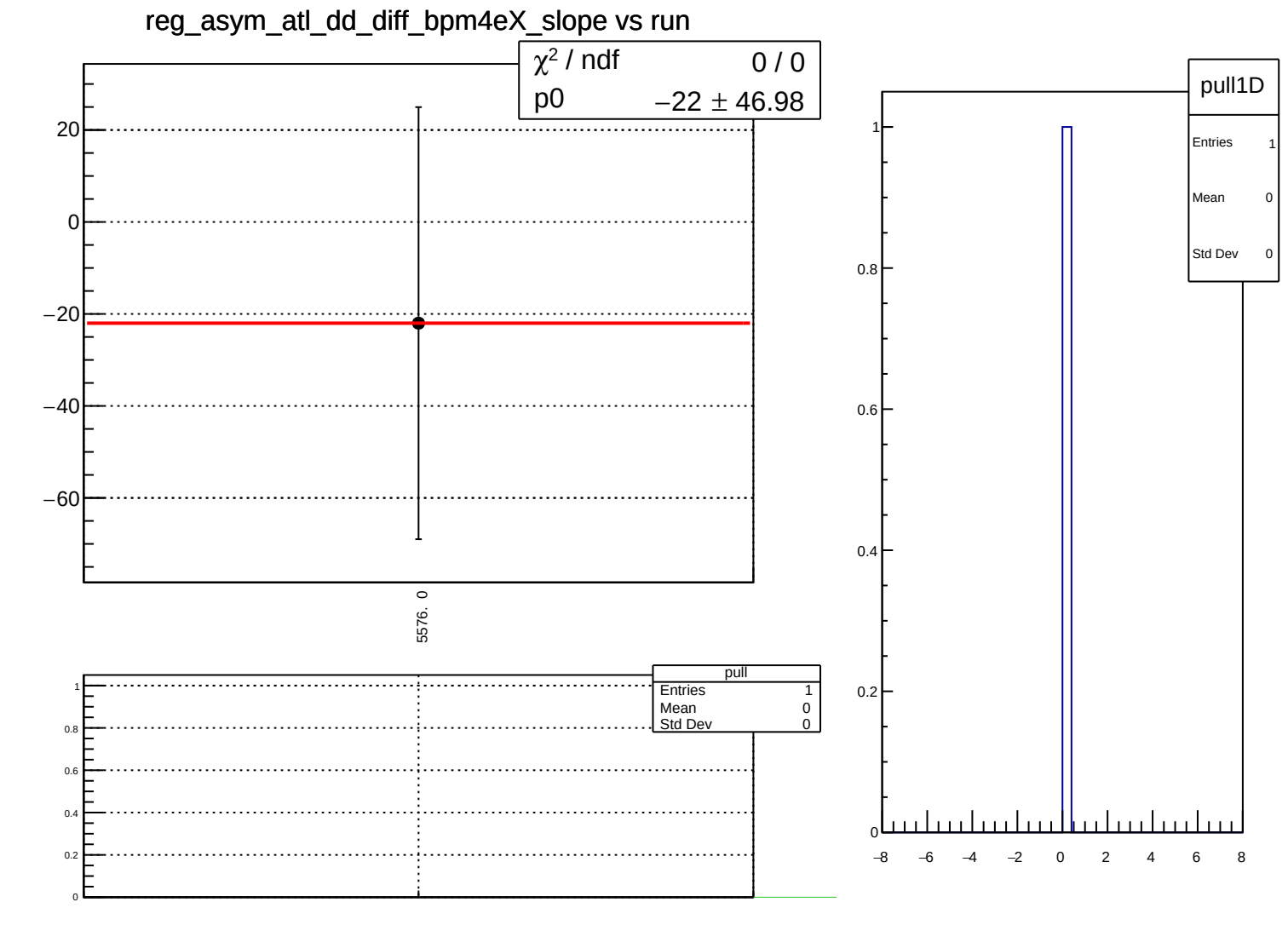

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.058e−32 / 0
p0 48.27 ± 40.63
90
80
70
60
50
40
30
20
10
5576. 0
×10⁻¹⁵
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

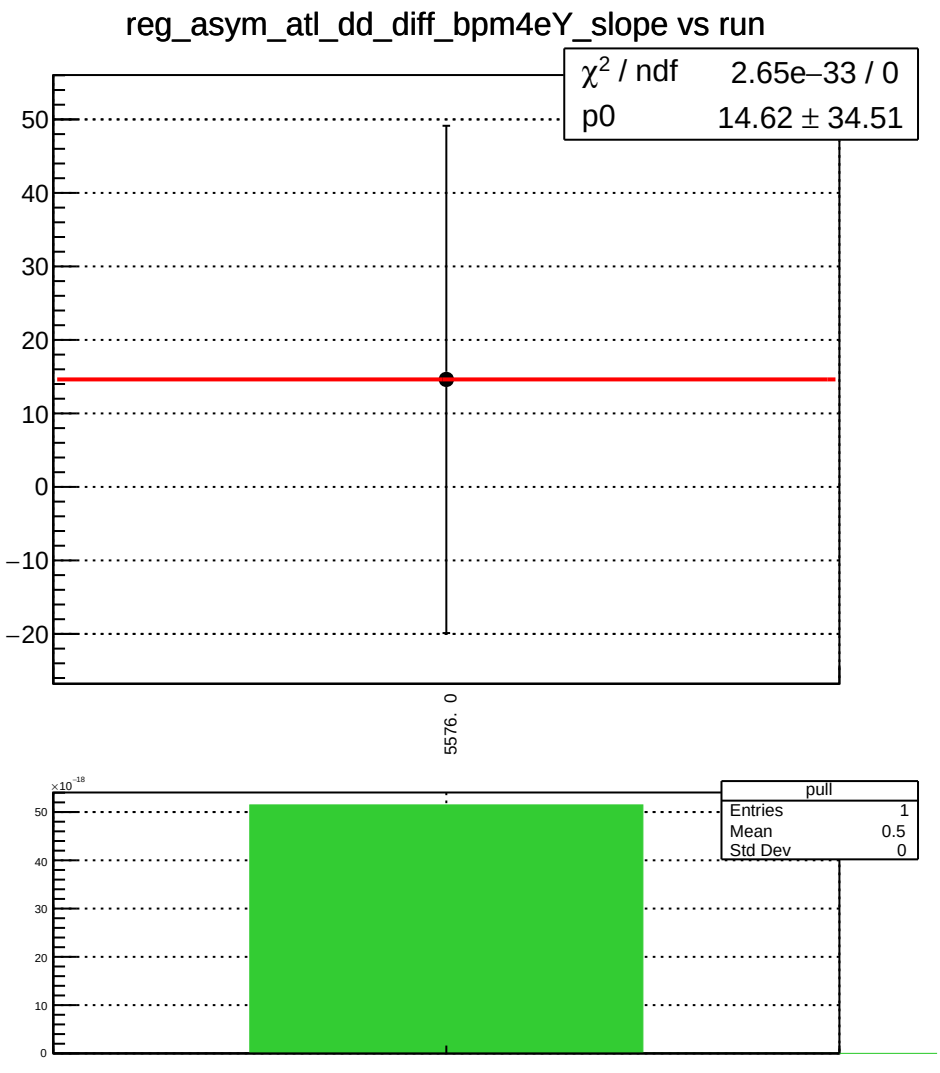

pull1D
Entries 1
Mean 1.749e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

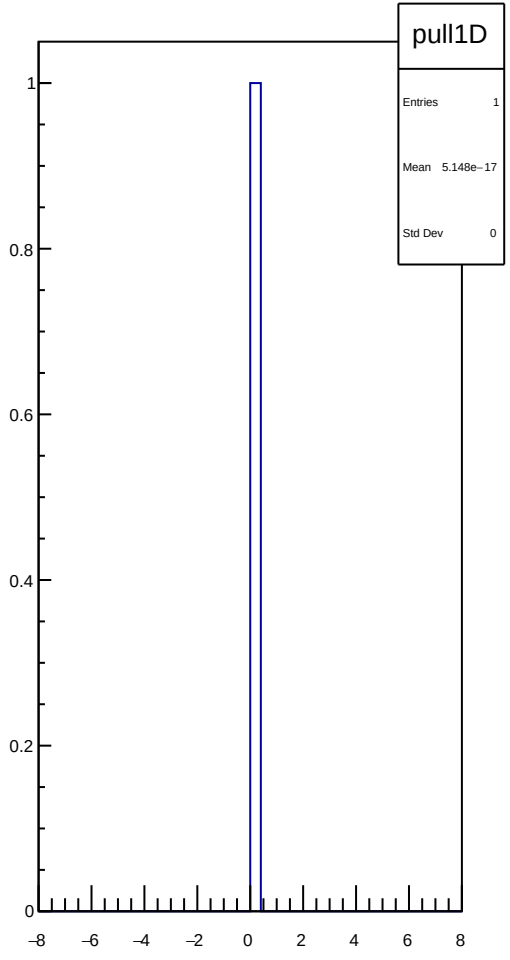

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −123 ± 1.875
−121
−121.5
−122
−122.5
−123
−123.5
−124
−124.5
−125
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

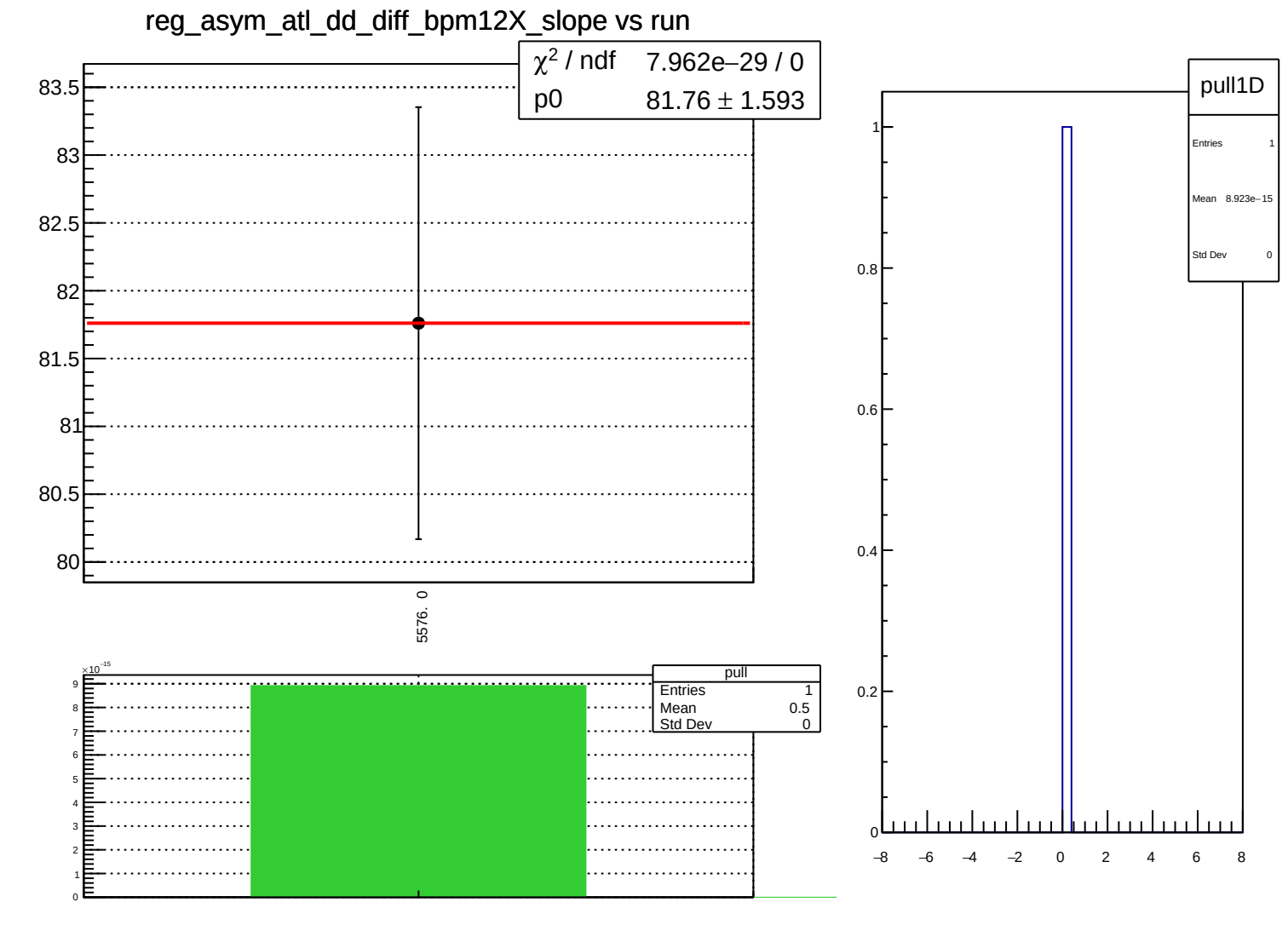

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.283e−32 / 0
p0 79.21 ± 49.38
120
100
80
60
40
20
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.878e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

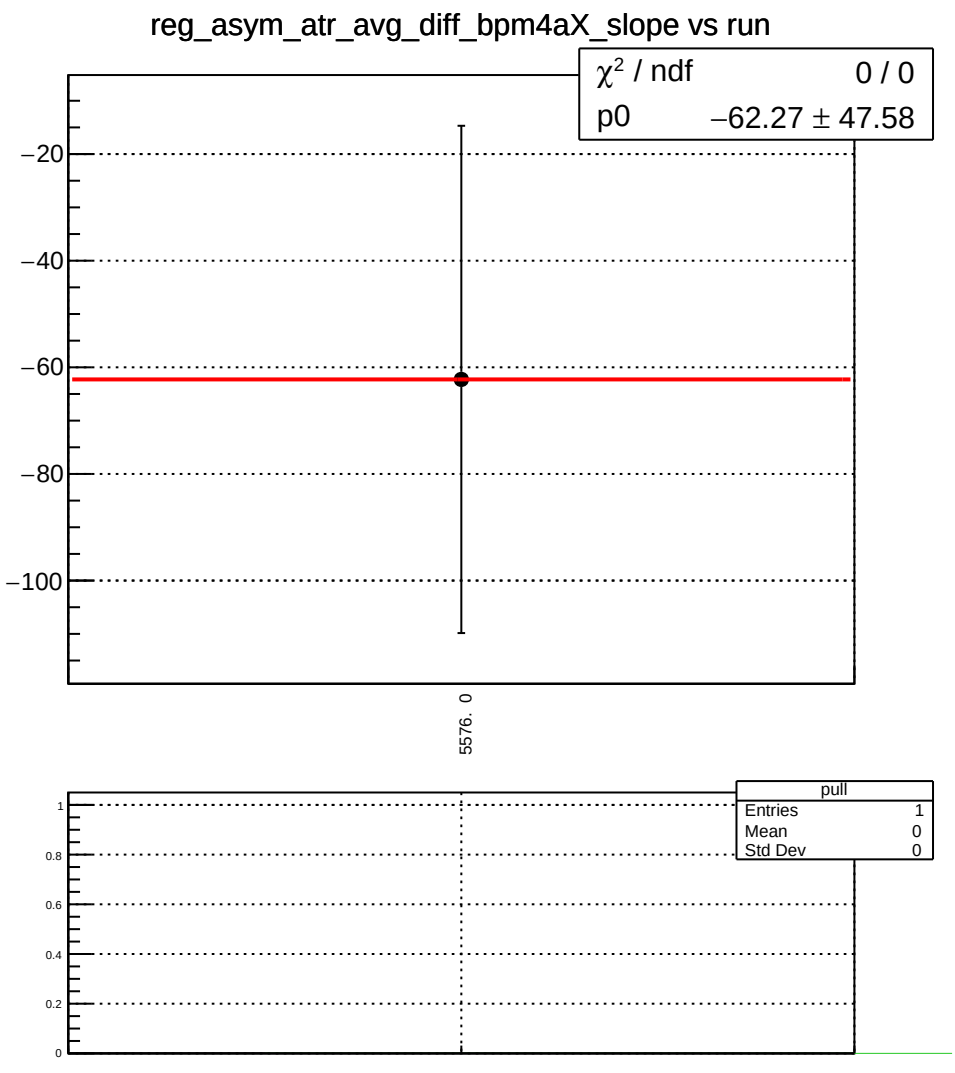

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.524e−32 / 0
p0 −56.69 ± 25.9
−30
−40
−50
−60
−70
−80
5576. 0
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.743e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

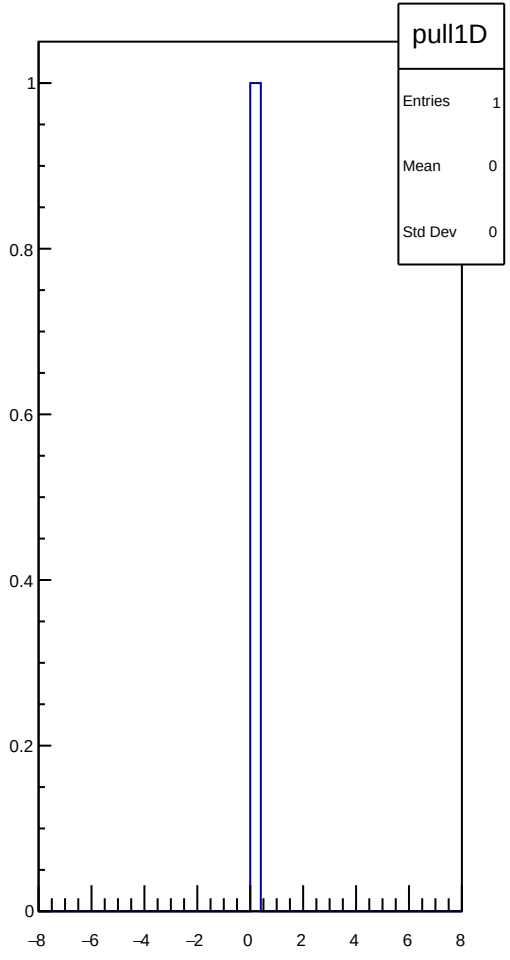

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −22 ± 46.98
20
0
−20
−40
−60
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

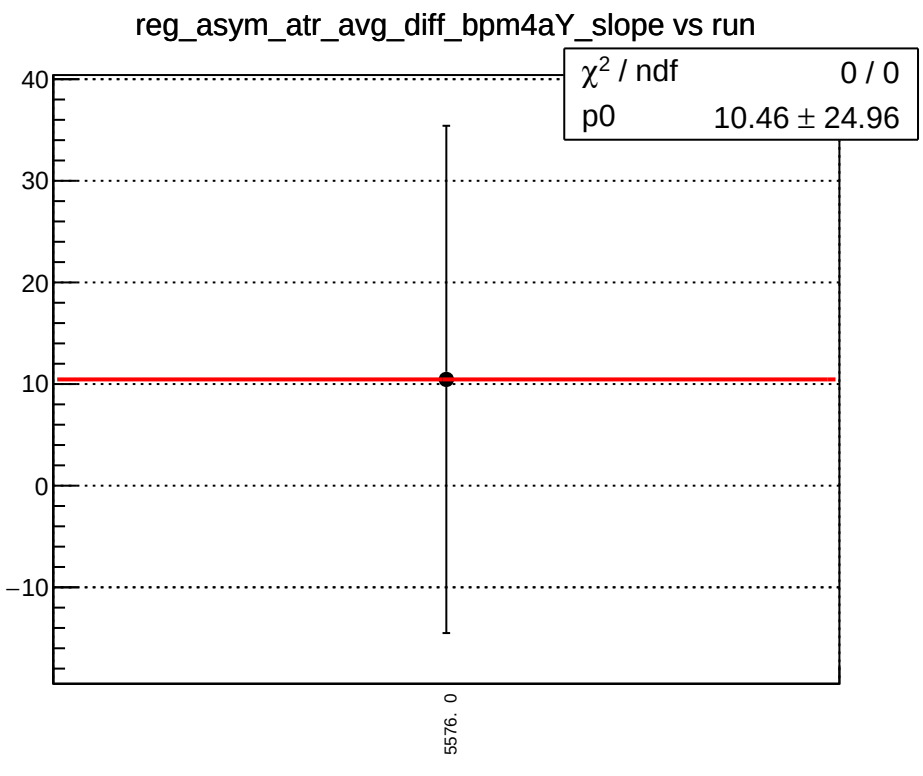

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.65e−33 / 0
p0 14.62 ± 34.51
50
40
30
20
10
0
−10
−20
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

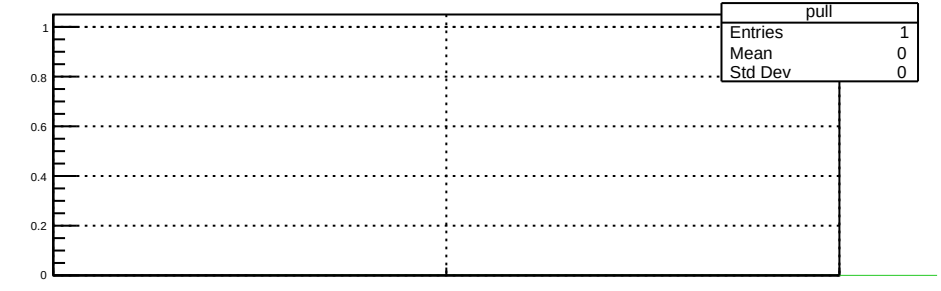

pull1D
Entries 1
Mean 5.148e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

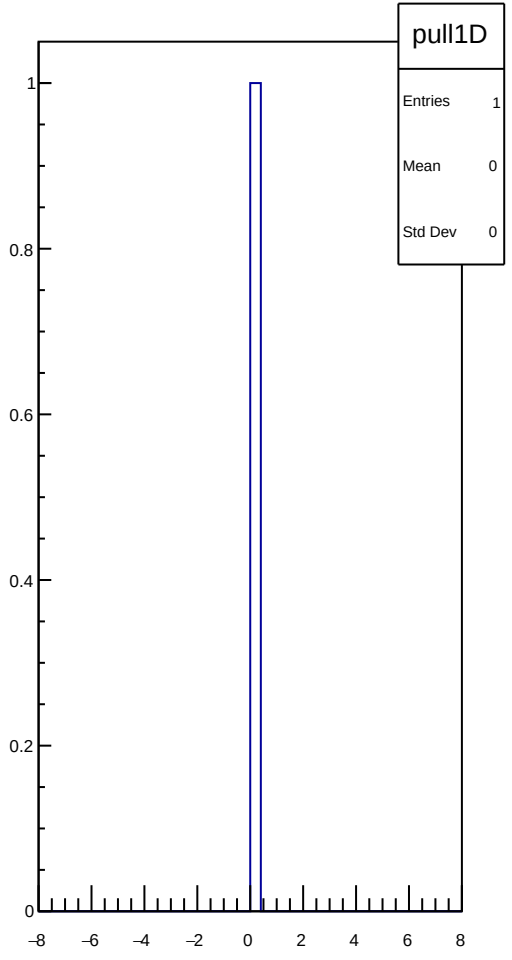

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 7.962e−29 / 0
p0 81.76 ± 1.593
83.5
83
82.5
82
81.5
81
80.5
80
5576. 0
×10⁻¹⁵
9
8
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 8.923e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

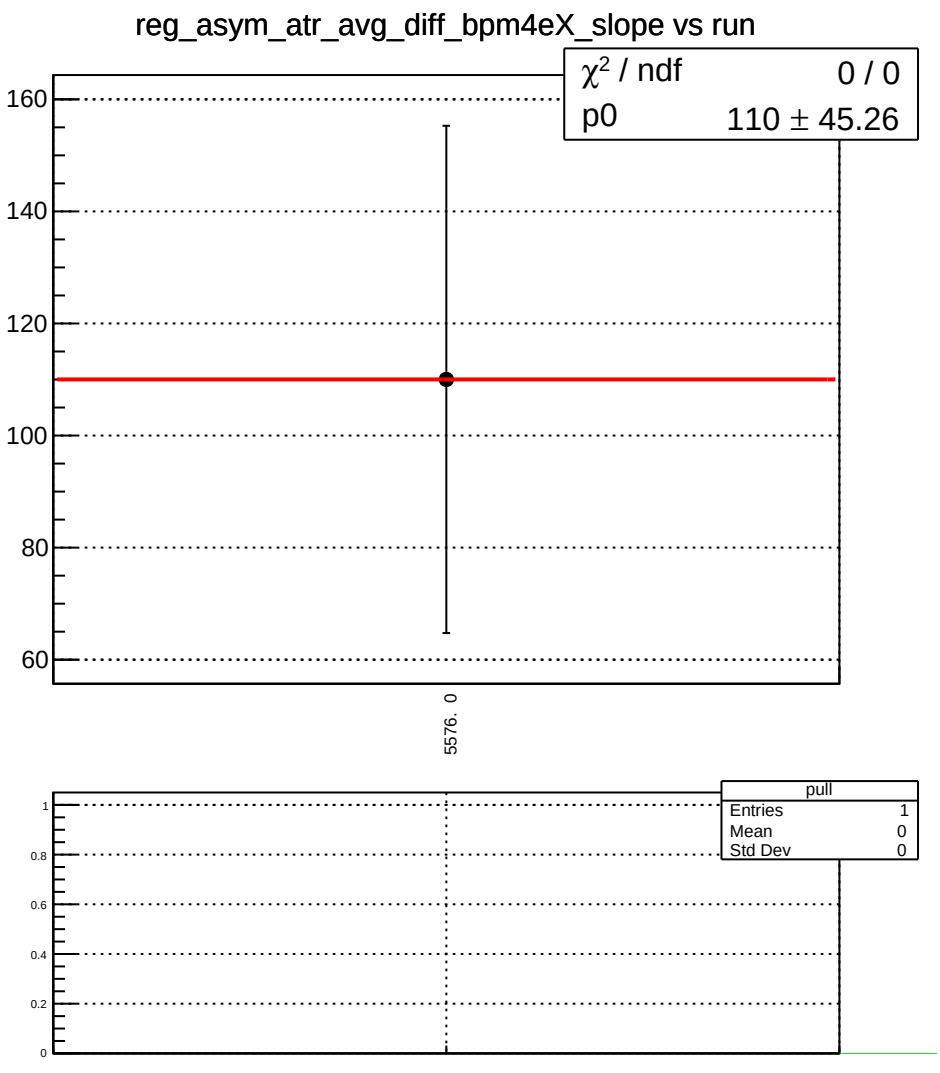

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −62.27 ± 47.58
−20
−40
−60
−80
−100
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

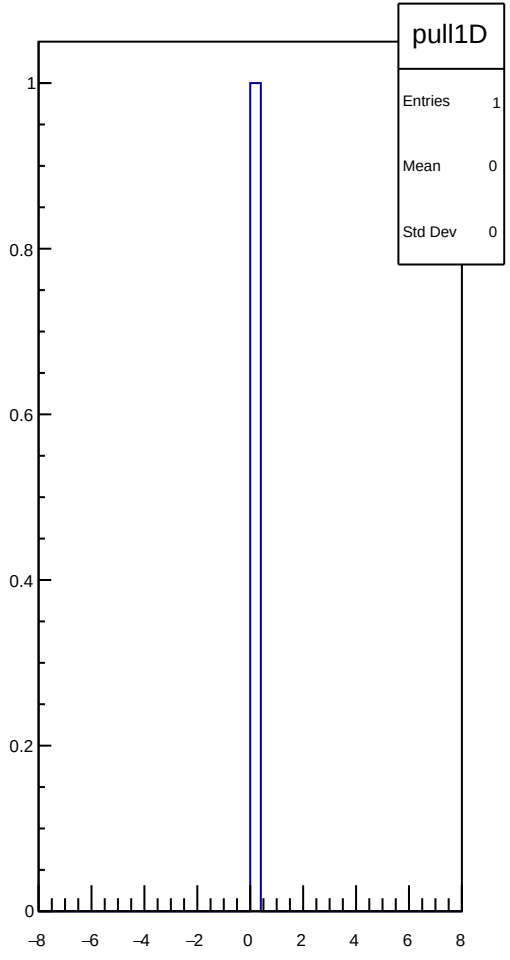

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

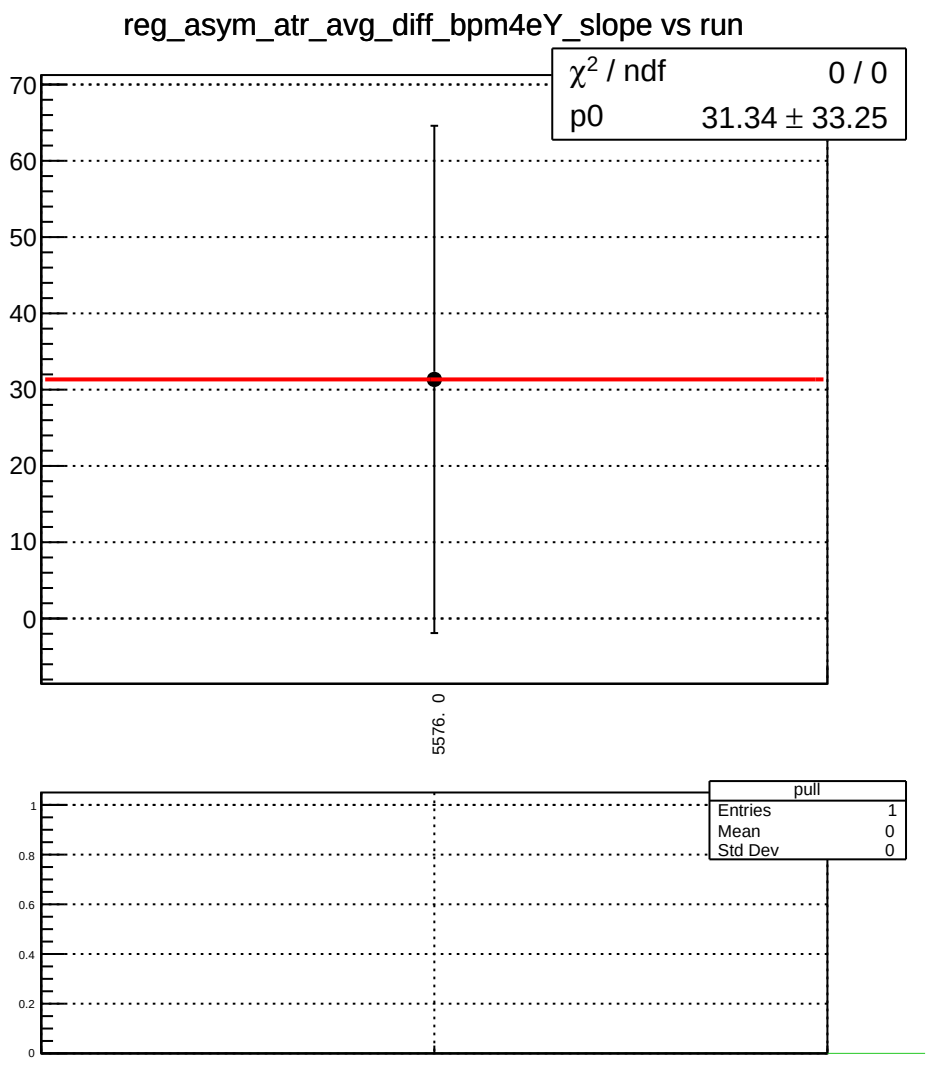

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 10.46 ± 24.96
40
30
20
10
0
−10
5576. 0

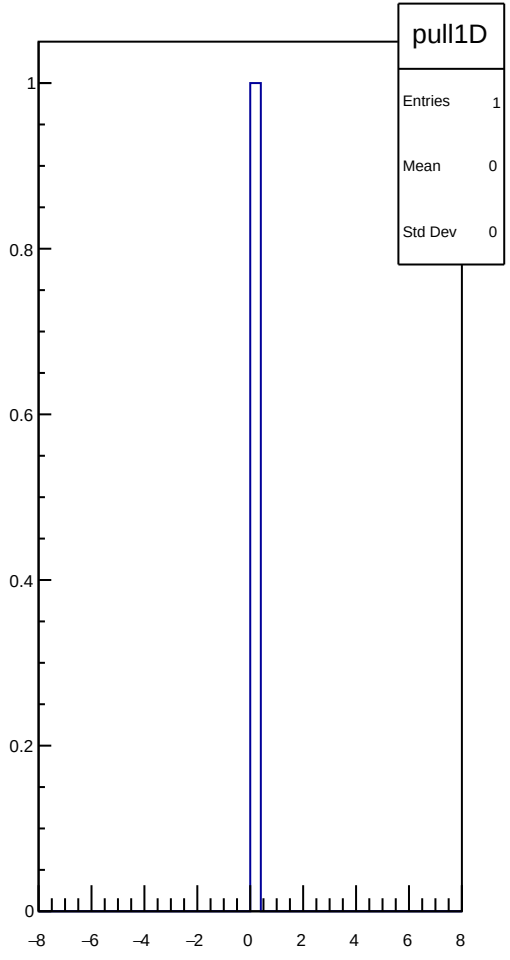

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

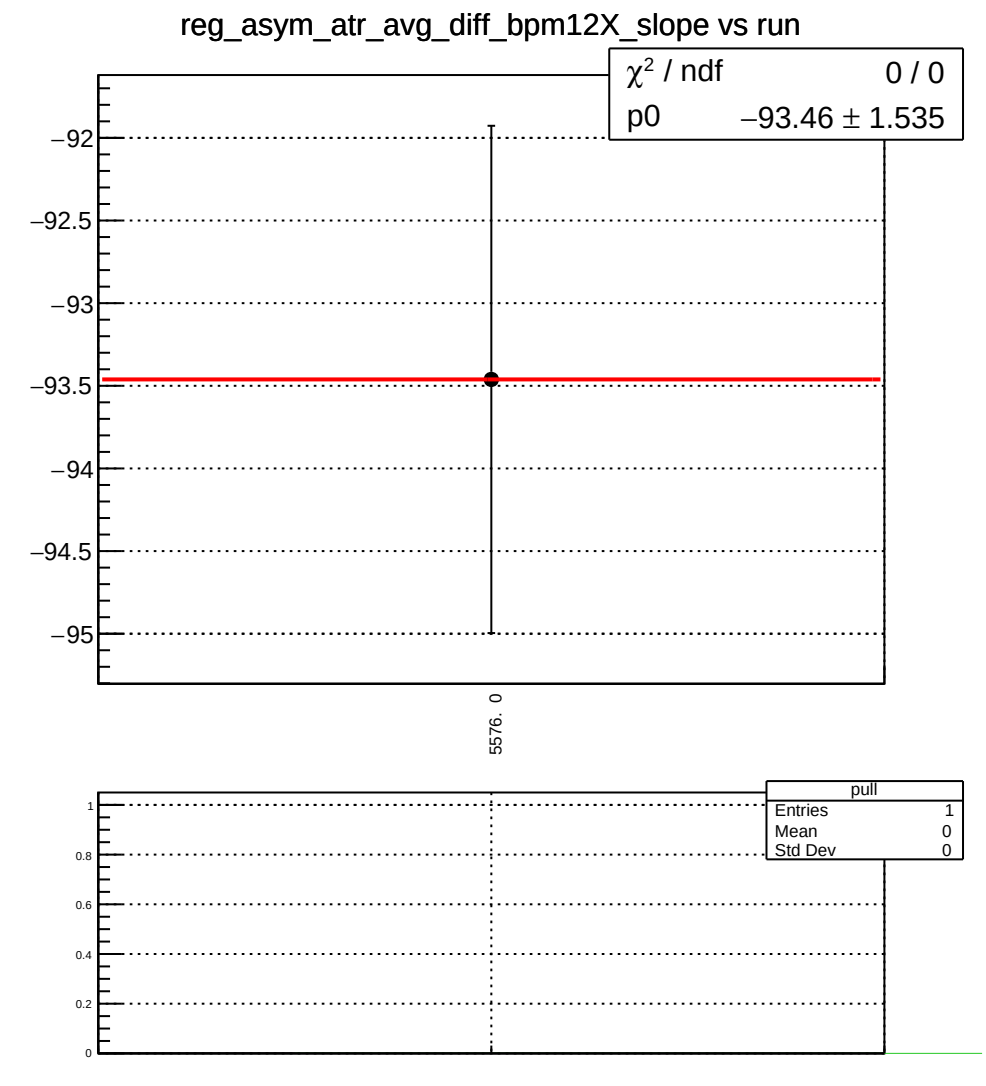

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

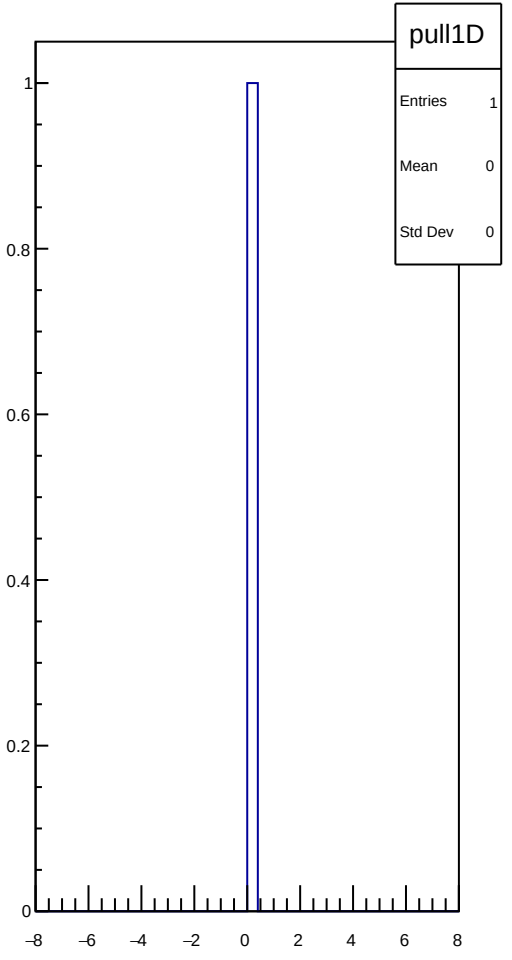

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 110 ± 45.26
160
140
120
100
80
60
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

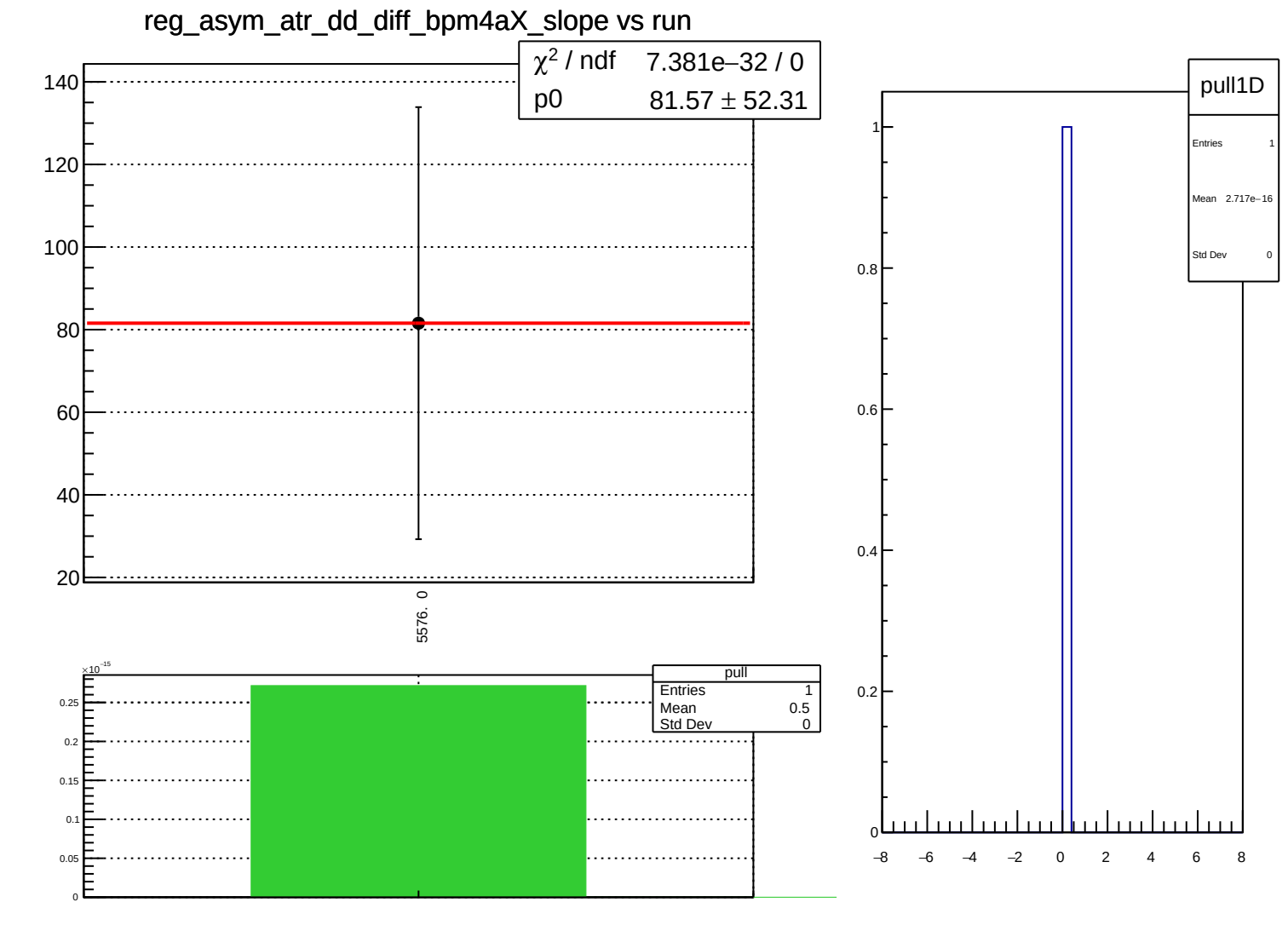

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

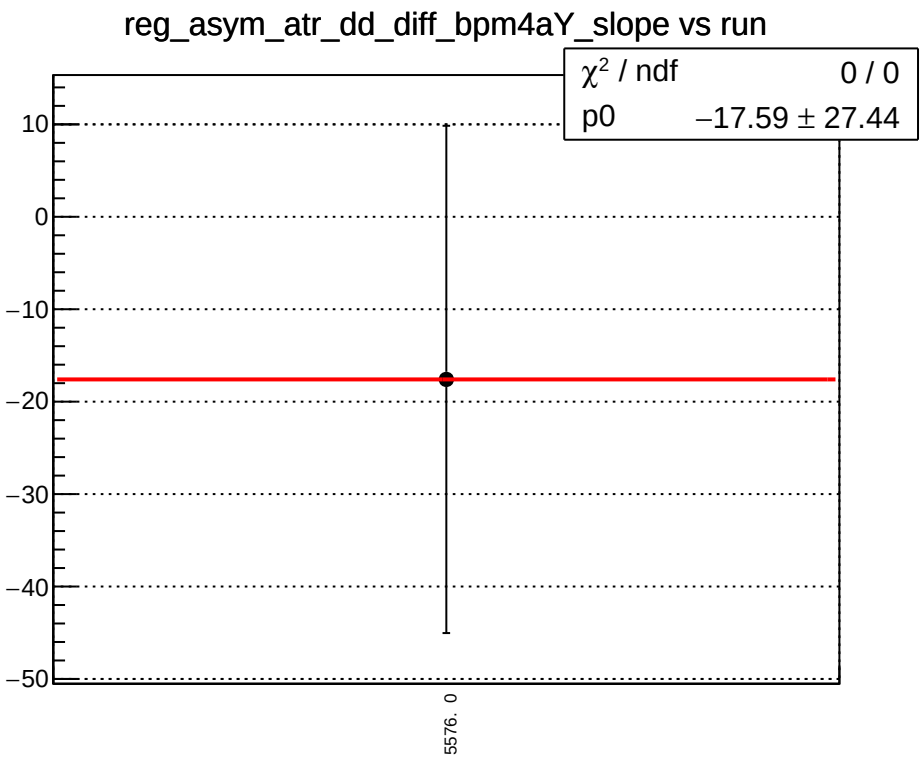

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 31.34 ± 33.25
70
60
50
40
30
20
10
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

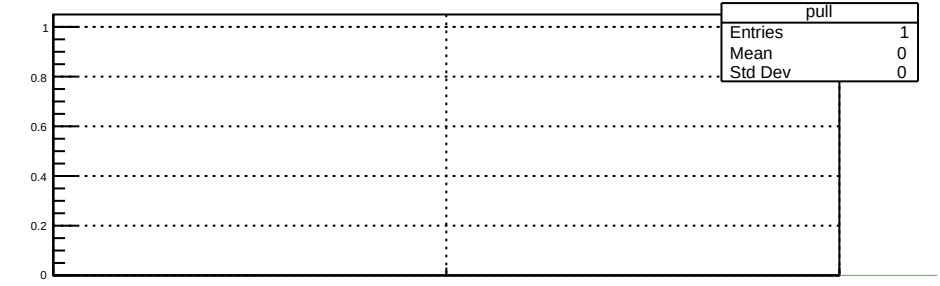

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

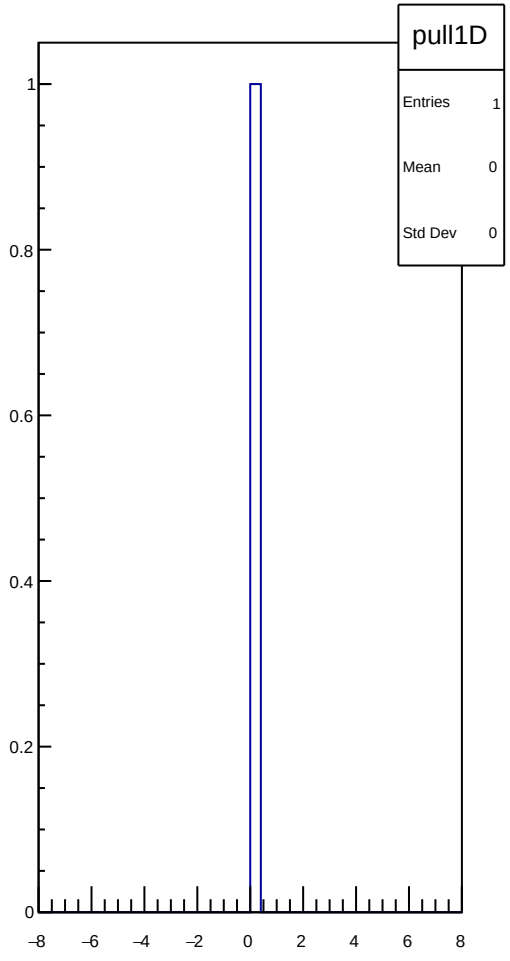

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −93.46 ± 1.535
−92
−92.5
−93
−93.5
−94
−94.5
−95
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

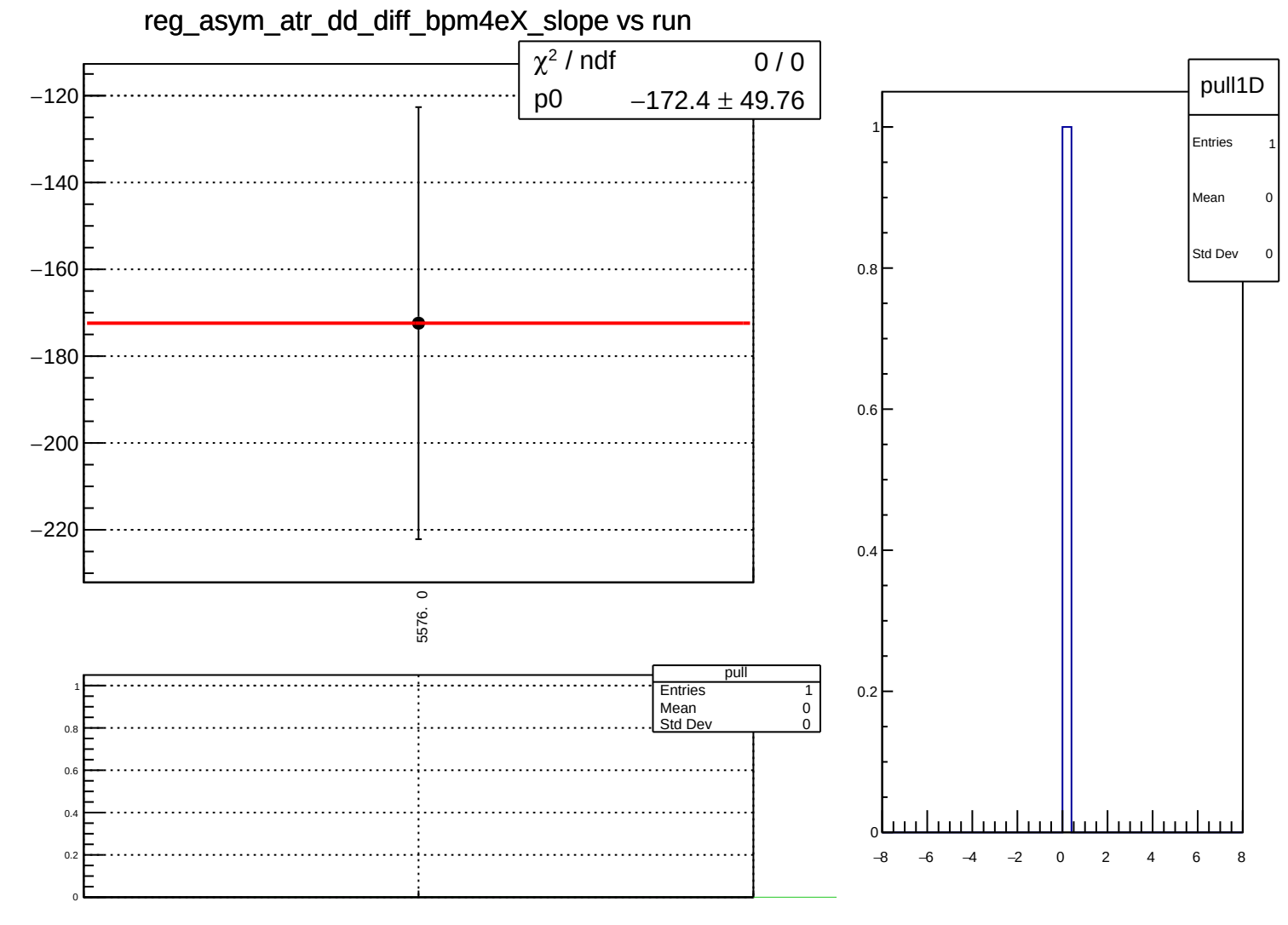

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

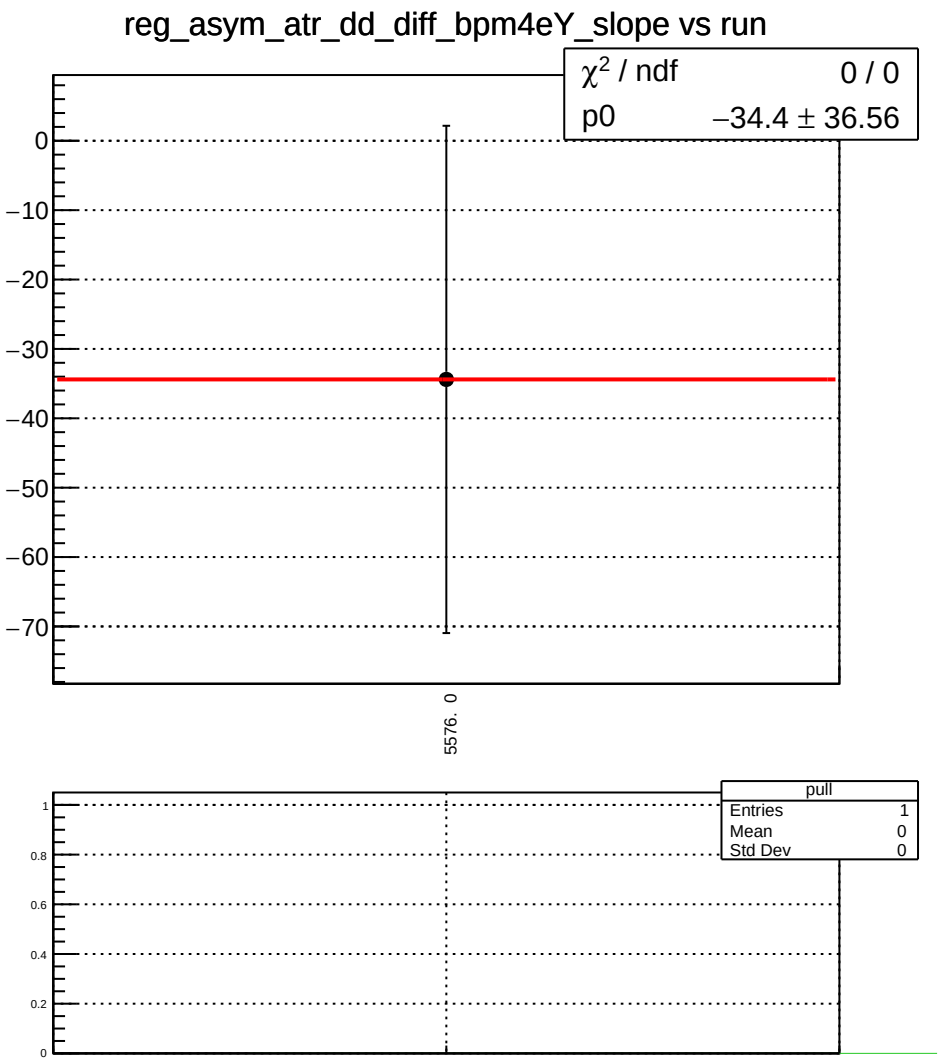

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.381e−32 / 0
p0 81.57 ± 52.31
140
120
100
80
60
40
20
5576. 0
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 2.717e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

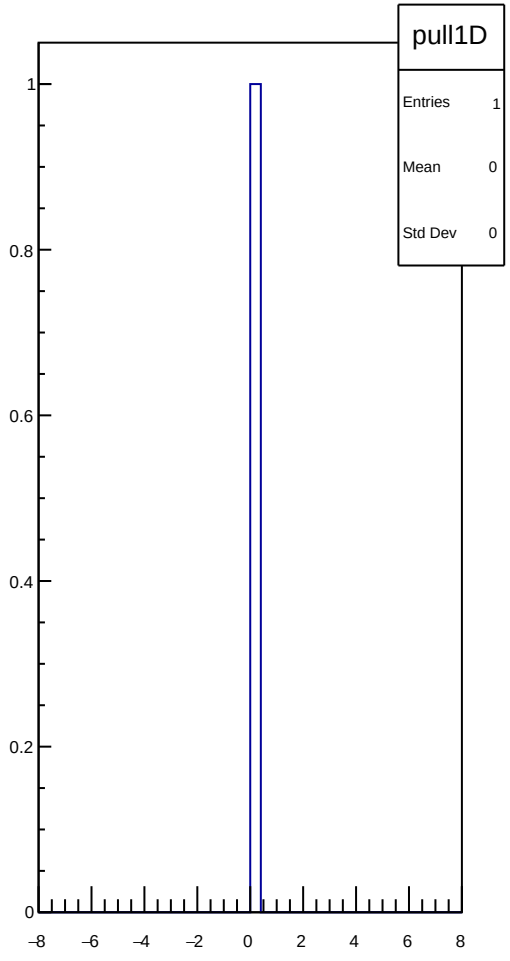

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −17.59 ± 27.44
10
0
−10
−20
−30
−40
−50
5576. 0

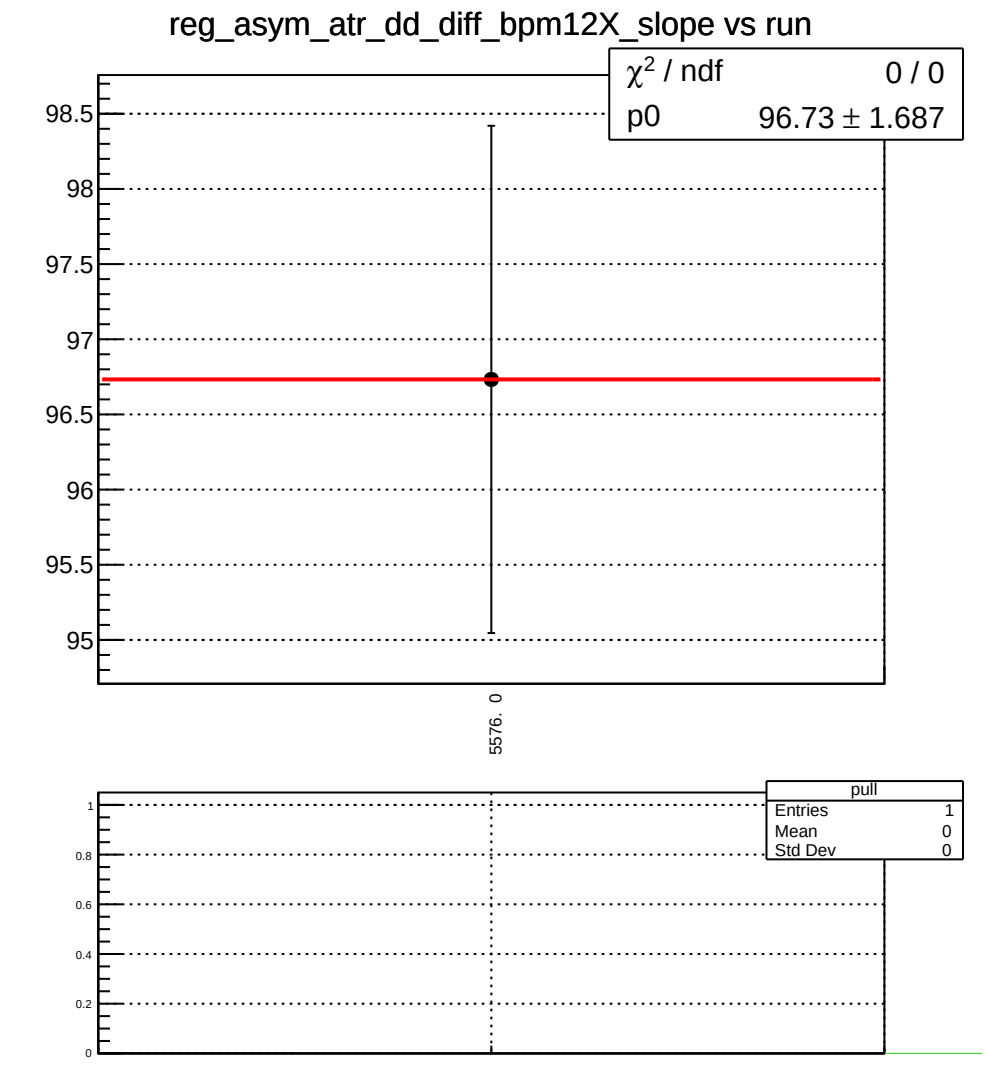

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

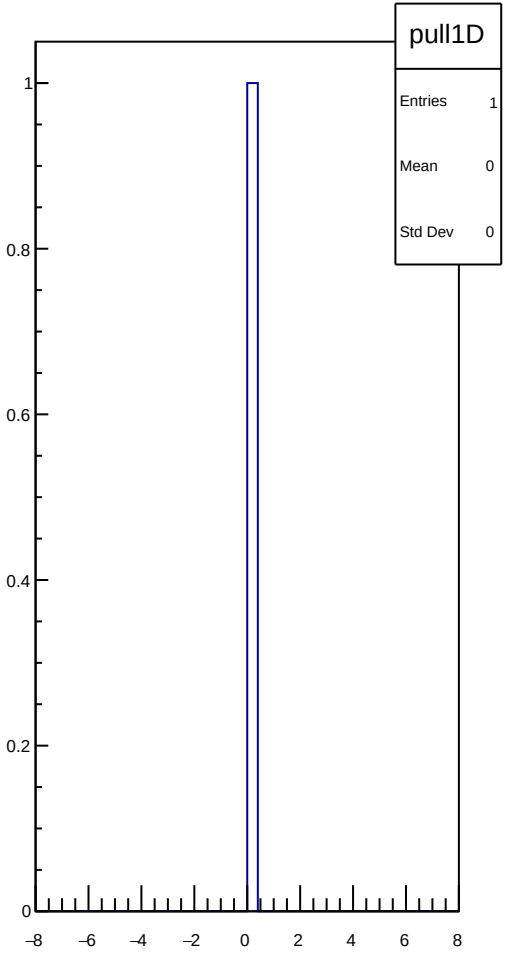

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

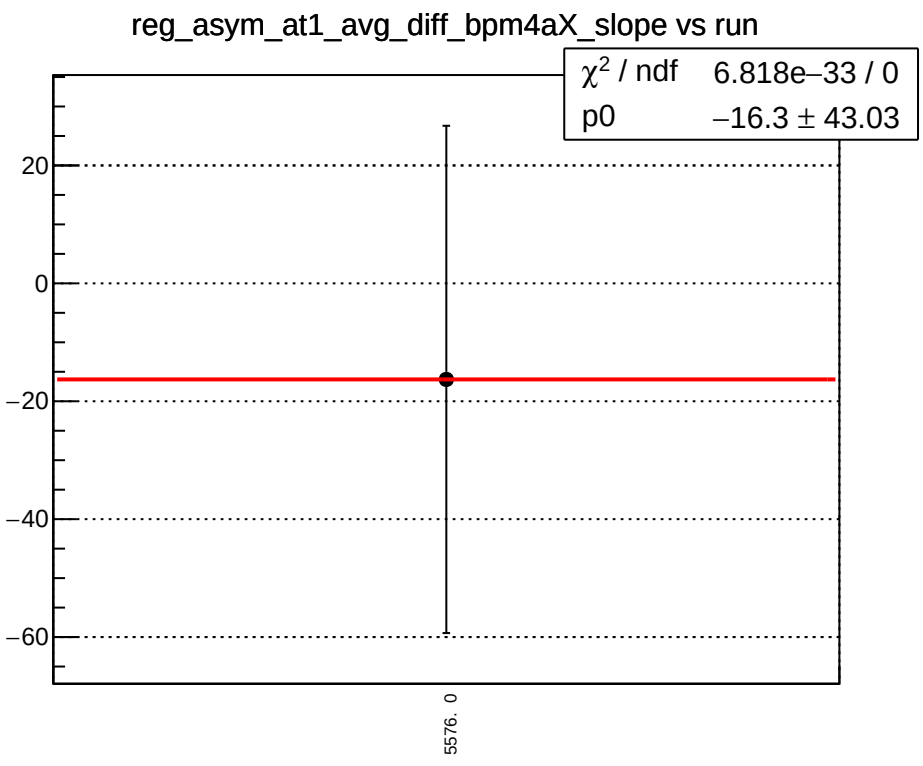

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −172.4 ± 49.76
−120
−140
−160
−180
−200
−220
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

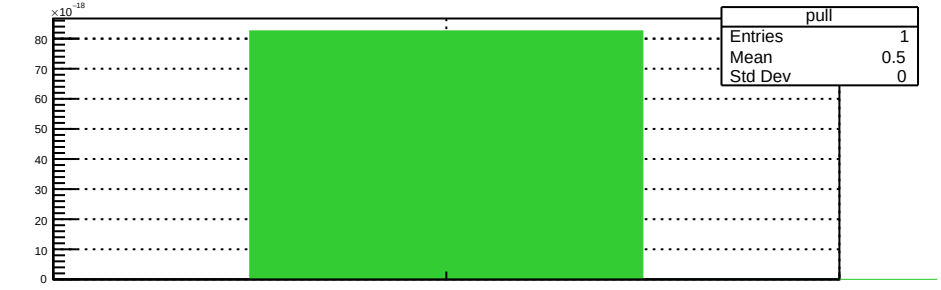

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −34.4 ± 36.56
0
−10
−20
−30
−40
−50
−60
−70
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

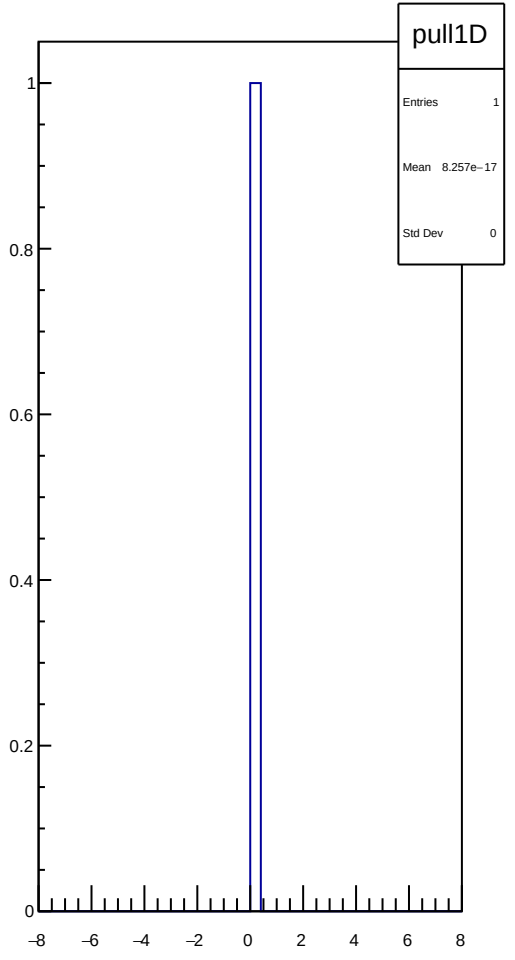

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

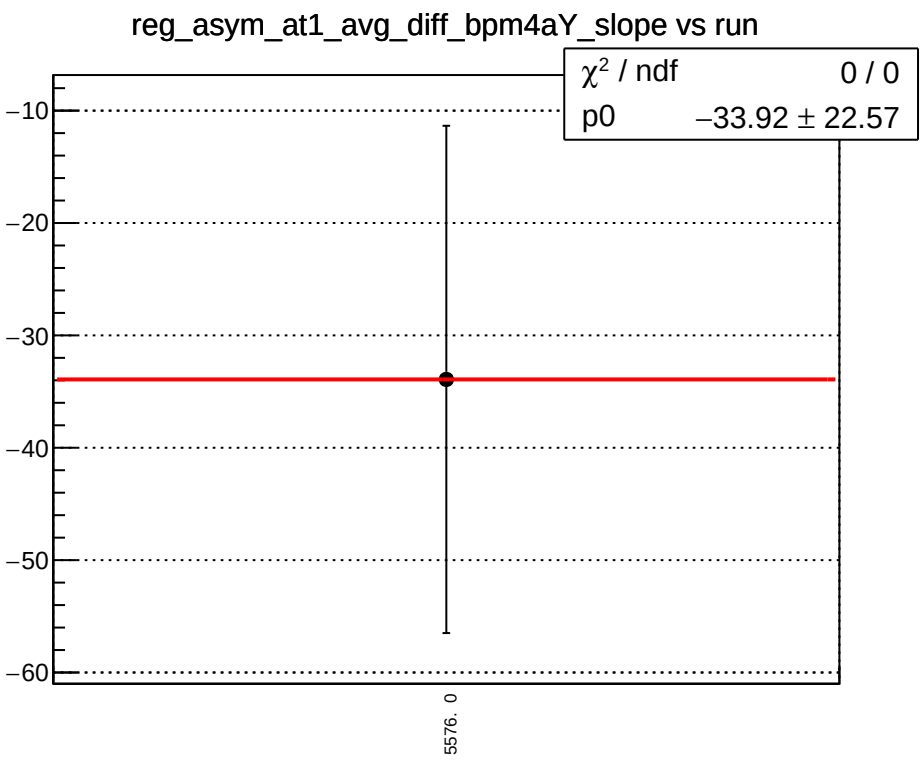

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 96.73 ± 1.687
98.5
98
97.5
97
96.5
96
95.5
95
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

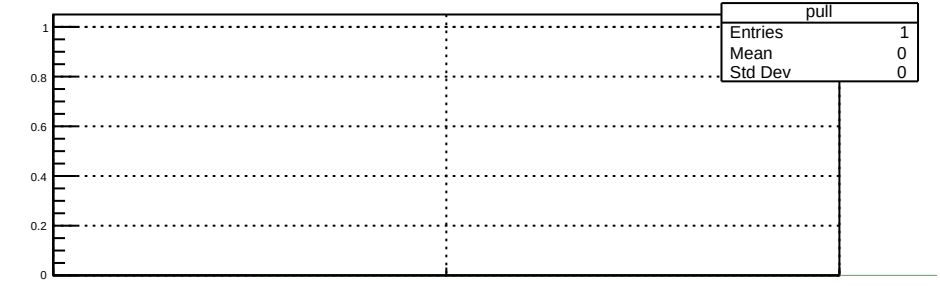

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

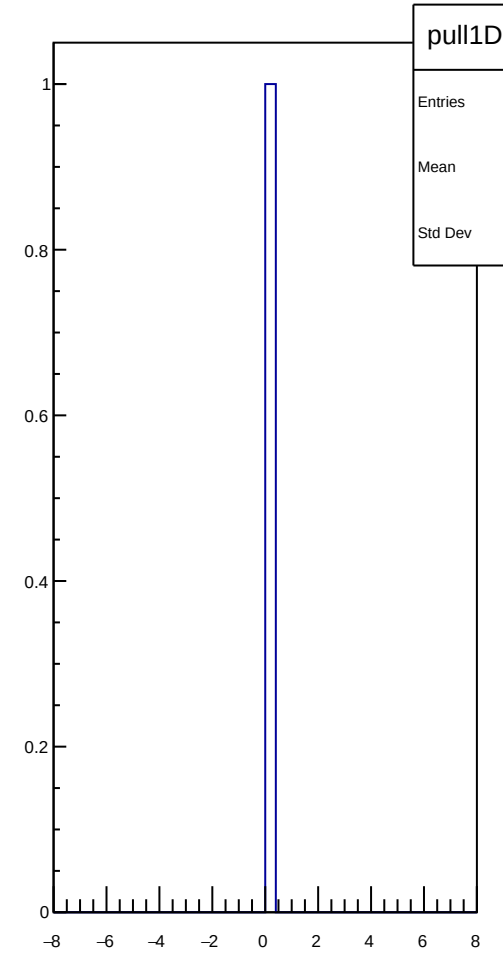

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.818e−33 / 0
p0 −16.3 ± 43.03
20
0
−20
−40
−60
5576. 0

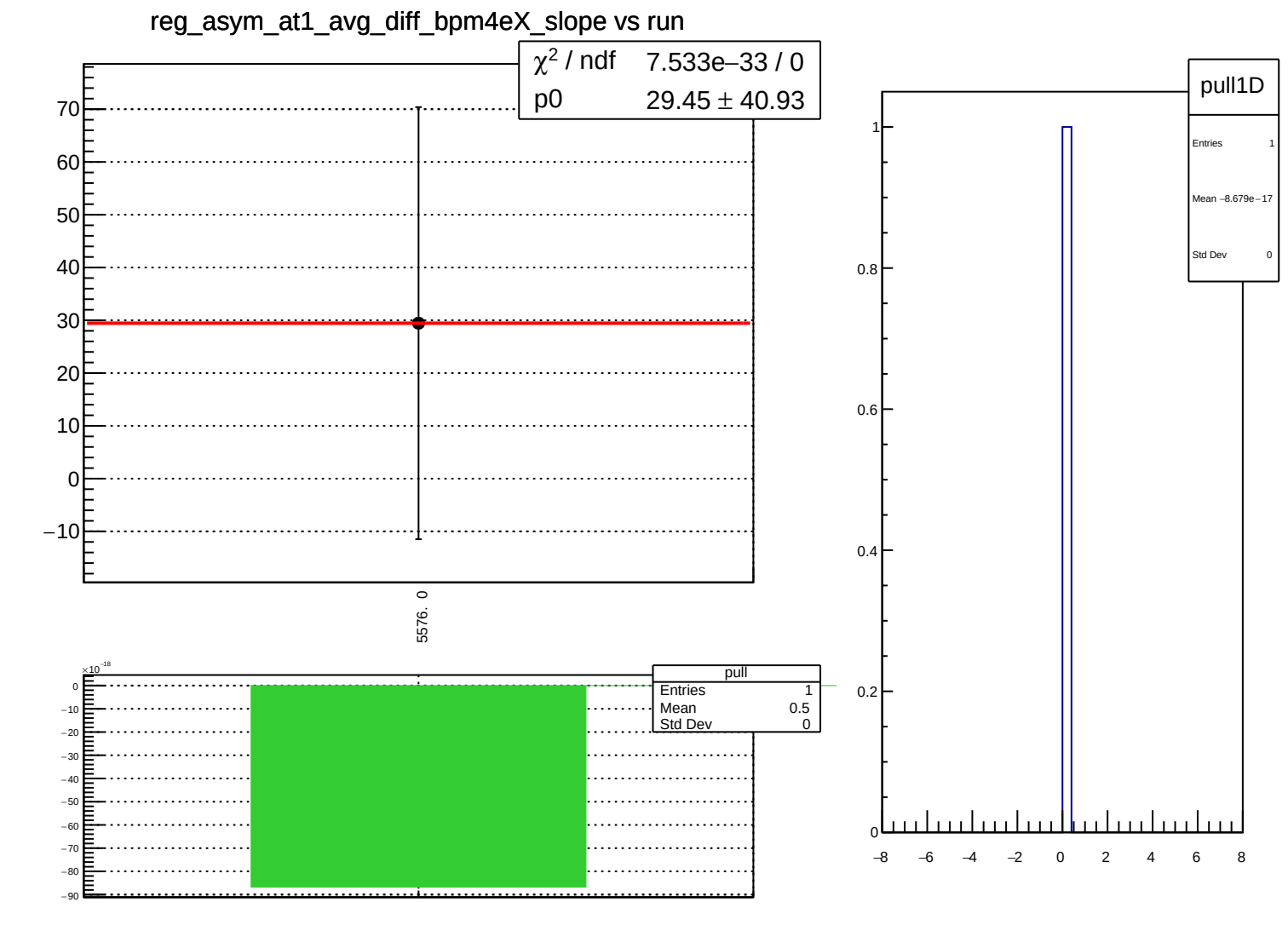

×10⁻¹⁸
80
70
60
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0

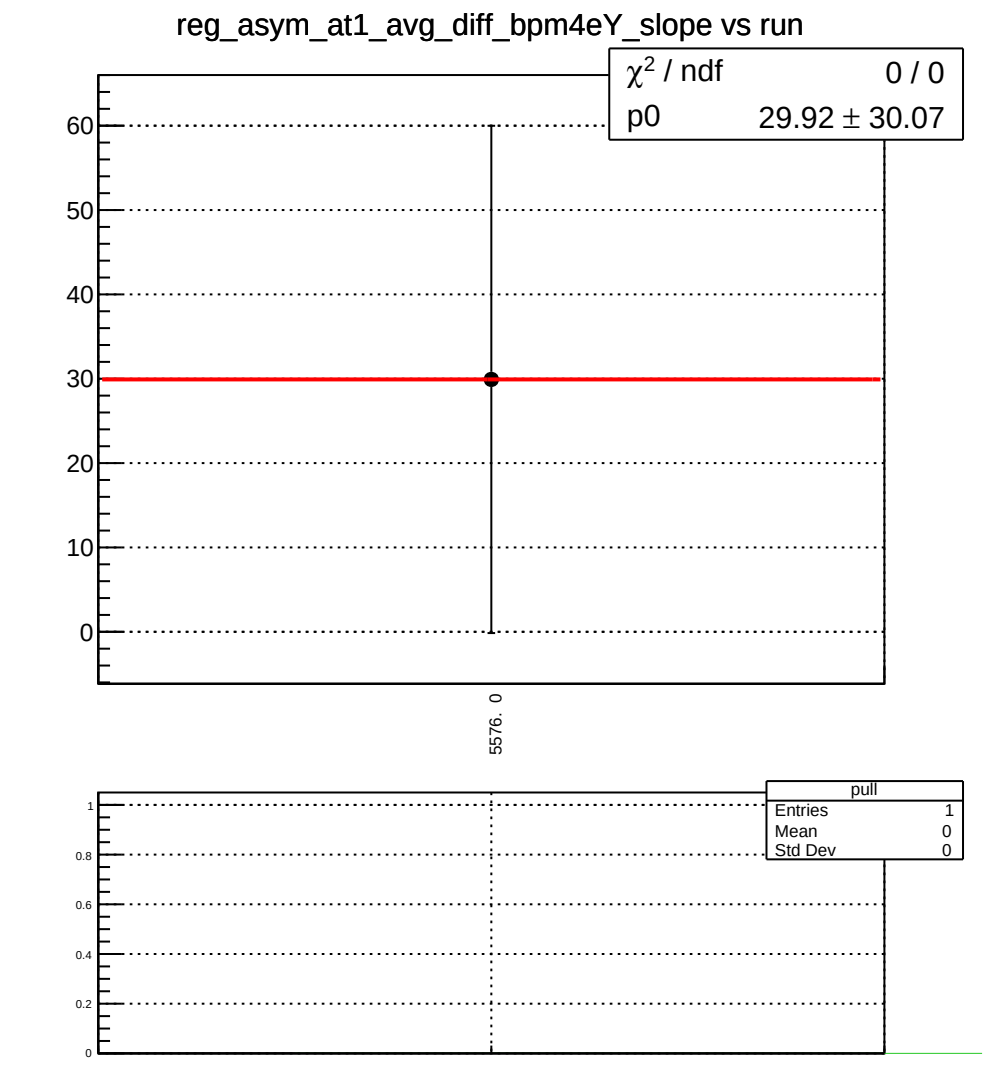

pull1D
Entries 1
Mean 8.257e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

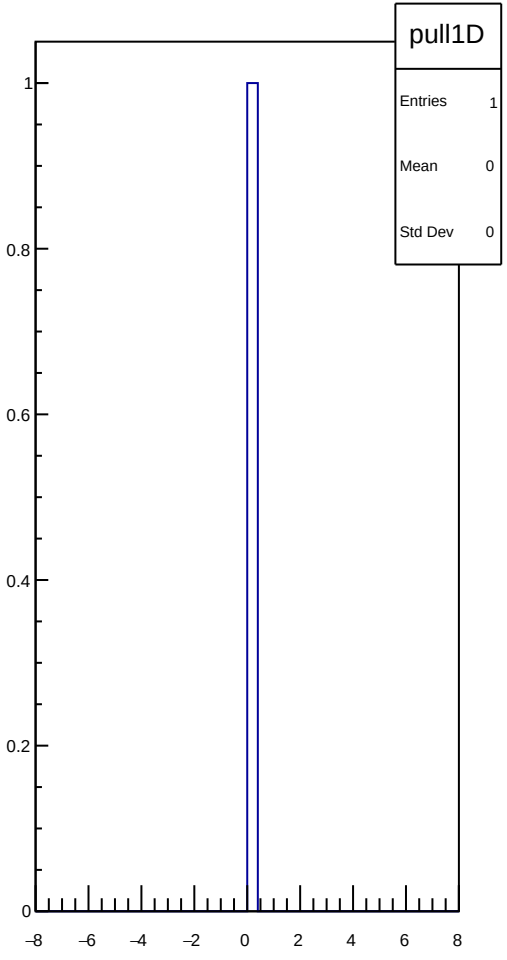

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −33.92 ± 22.57
−10
−20
−30
−40
−50
−60
5576. 0

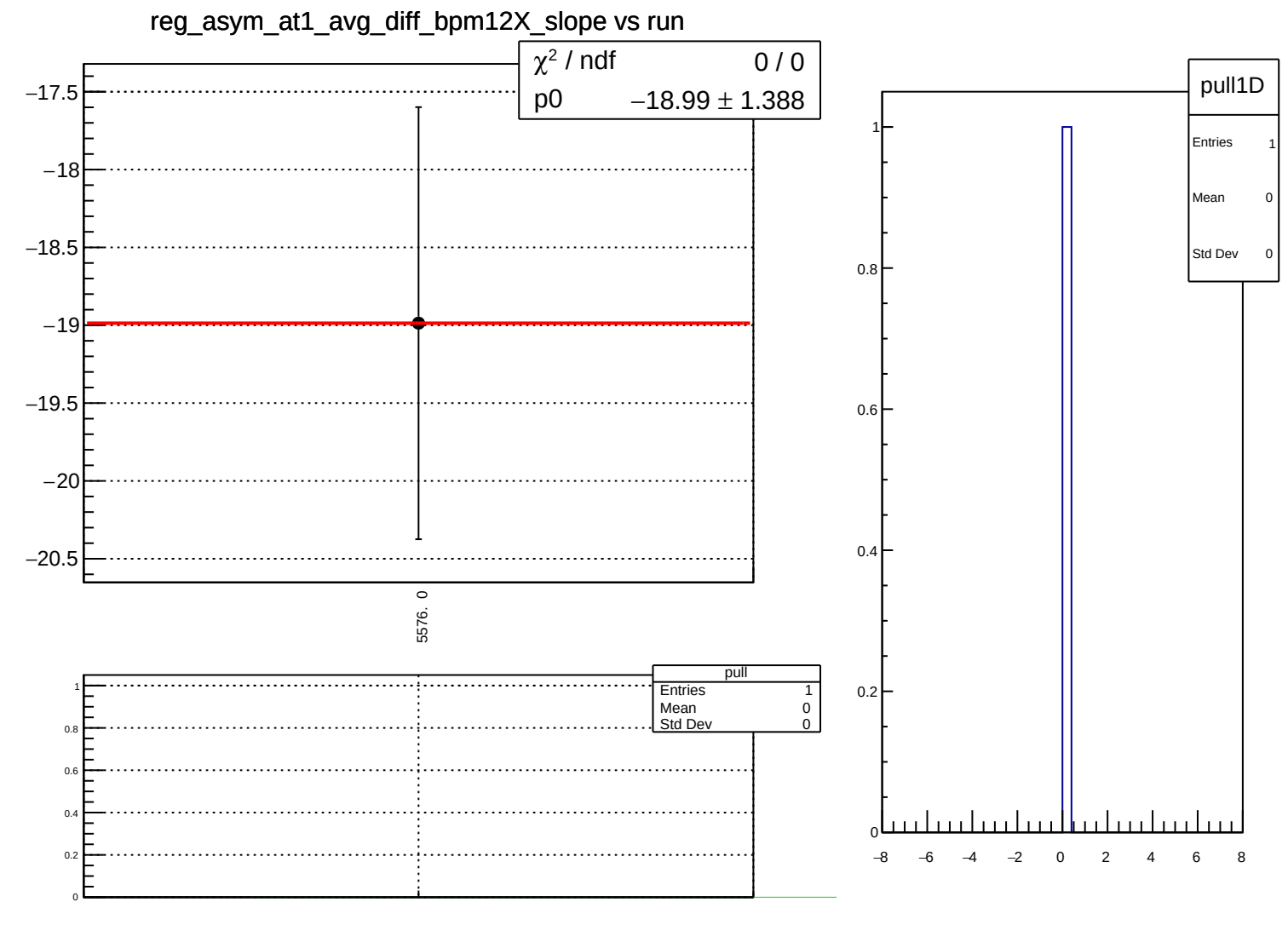

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

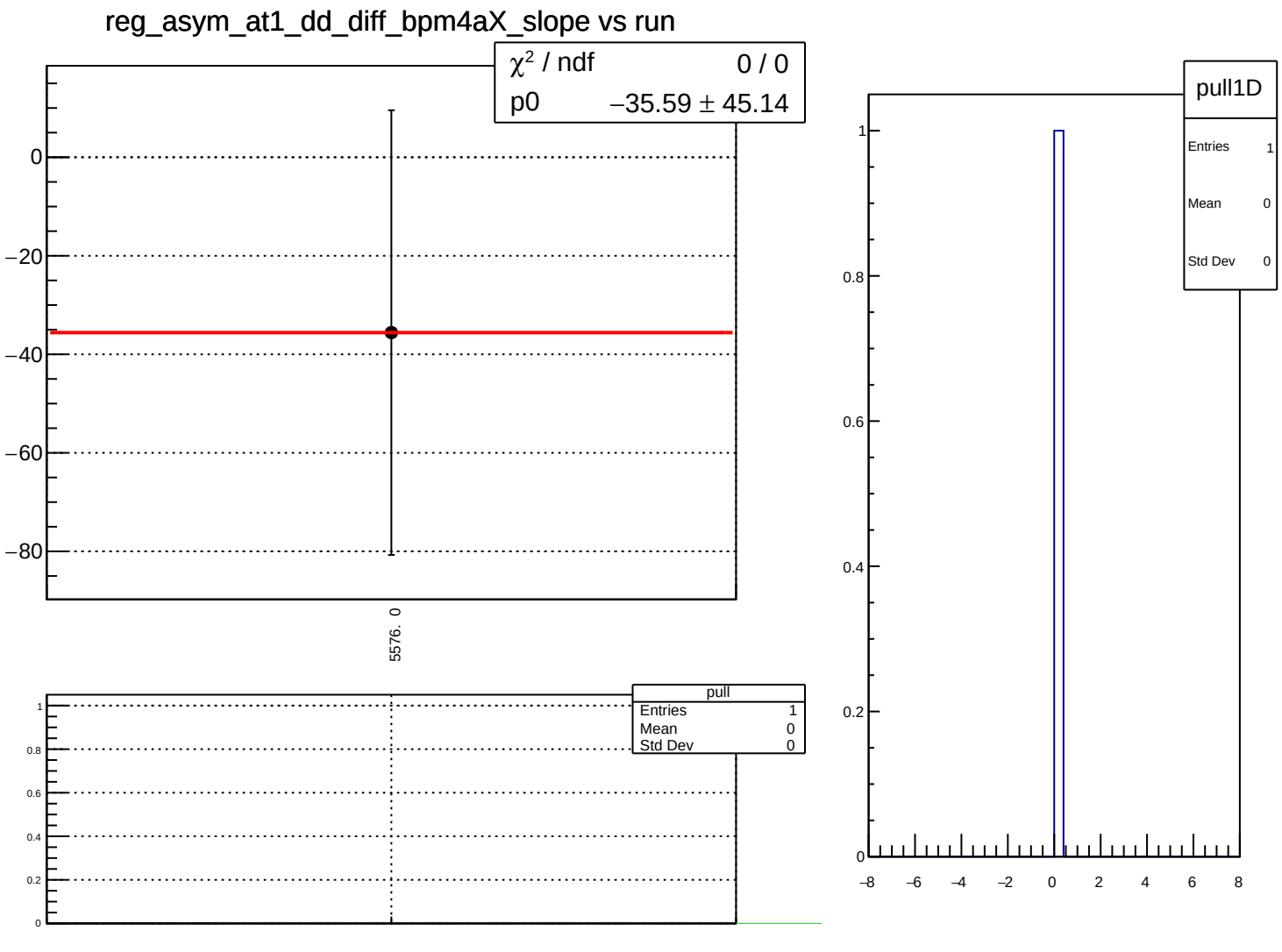

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

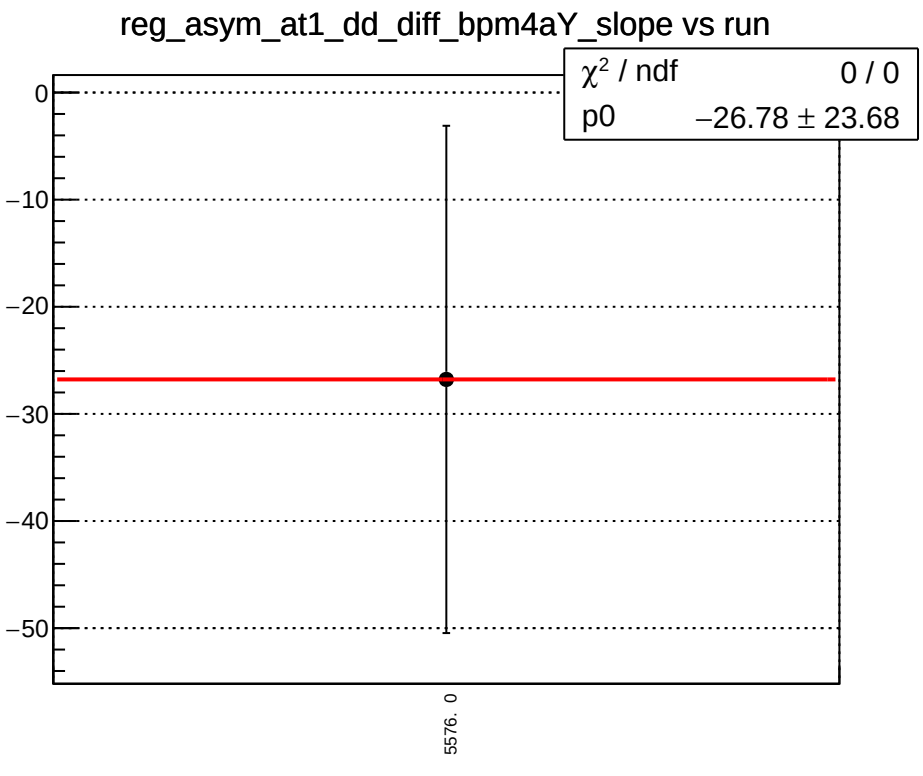

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ2 / ndf 7.533e−33 / 0
p0 29.45 ± 40.93
70
60
50
40
30
20
10
0
−10
5576. 0
×10-18
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −8.679e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

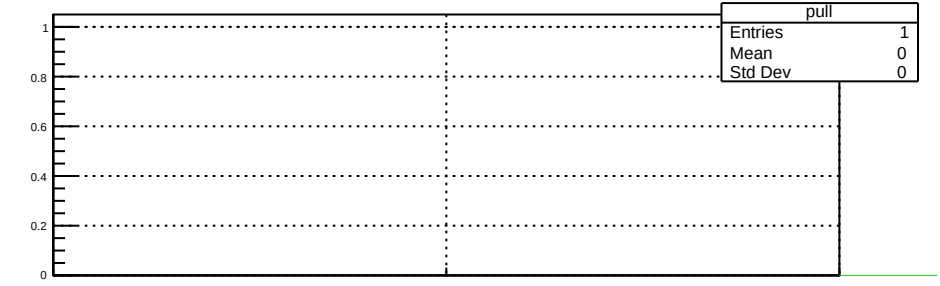

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 29.92 ± 30.07
60
50
40
30
20
10
0
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

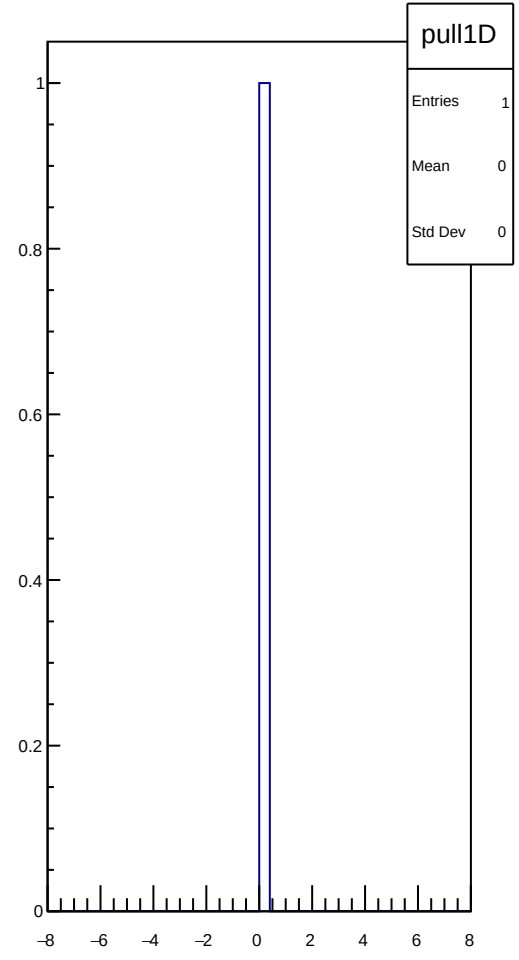

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

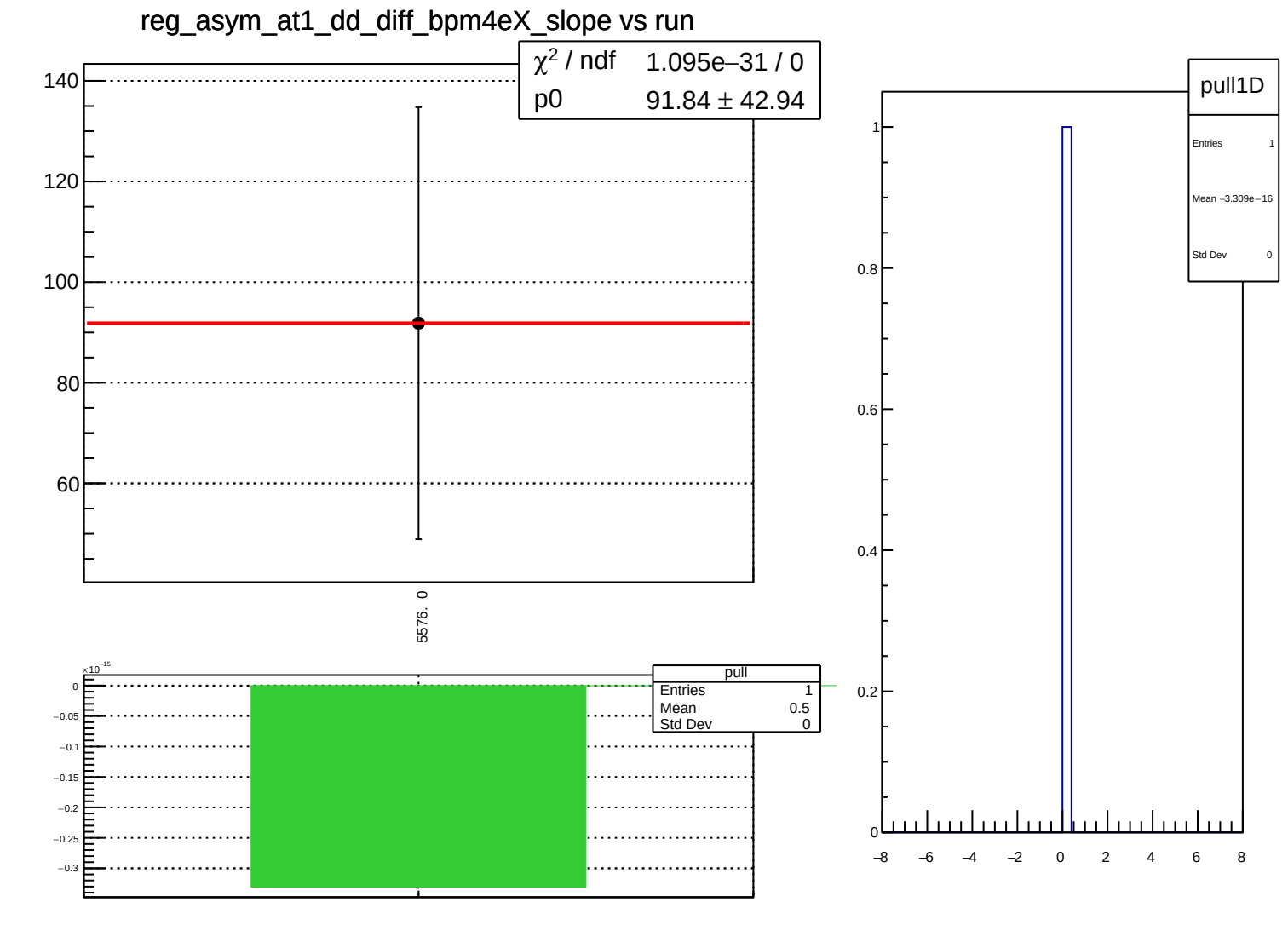

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −18.99 ± 1.388
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

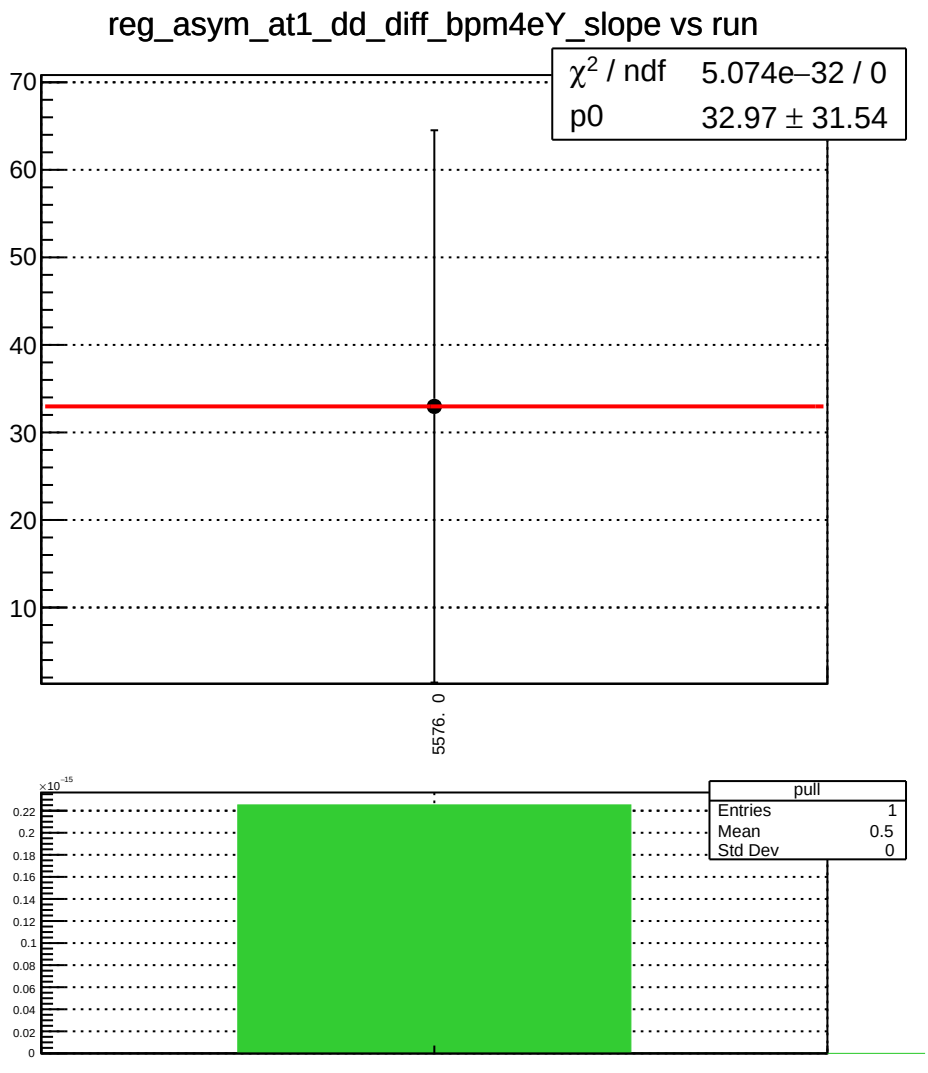

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −35.59 ± 45.14
0
−20
−40
−60
−80
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
pull1D
Entries 1
Mean 0
Std Dev 0
−8
−6
−4
−2
0
2
4
6
8

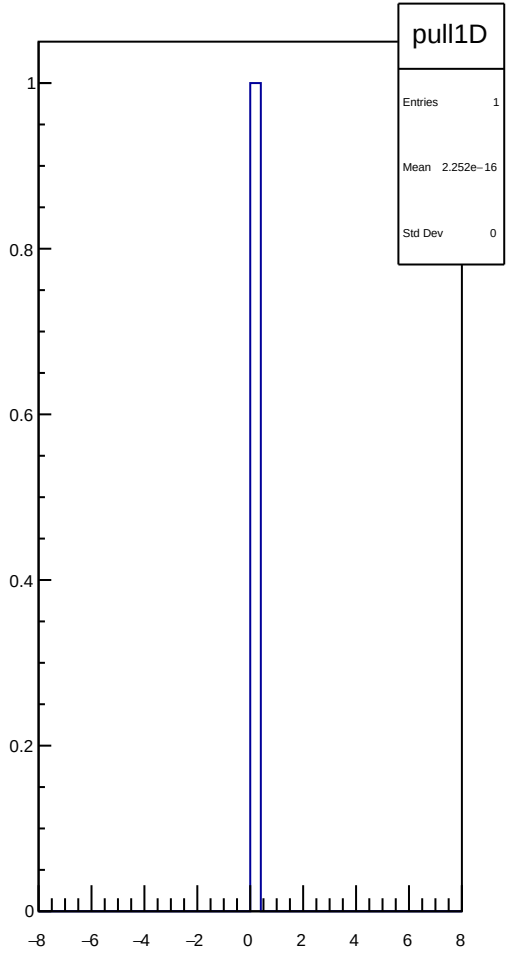

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −26.78 ± 23.68
0
−10
−20
−30
−40
−50
5576. 0

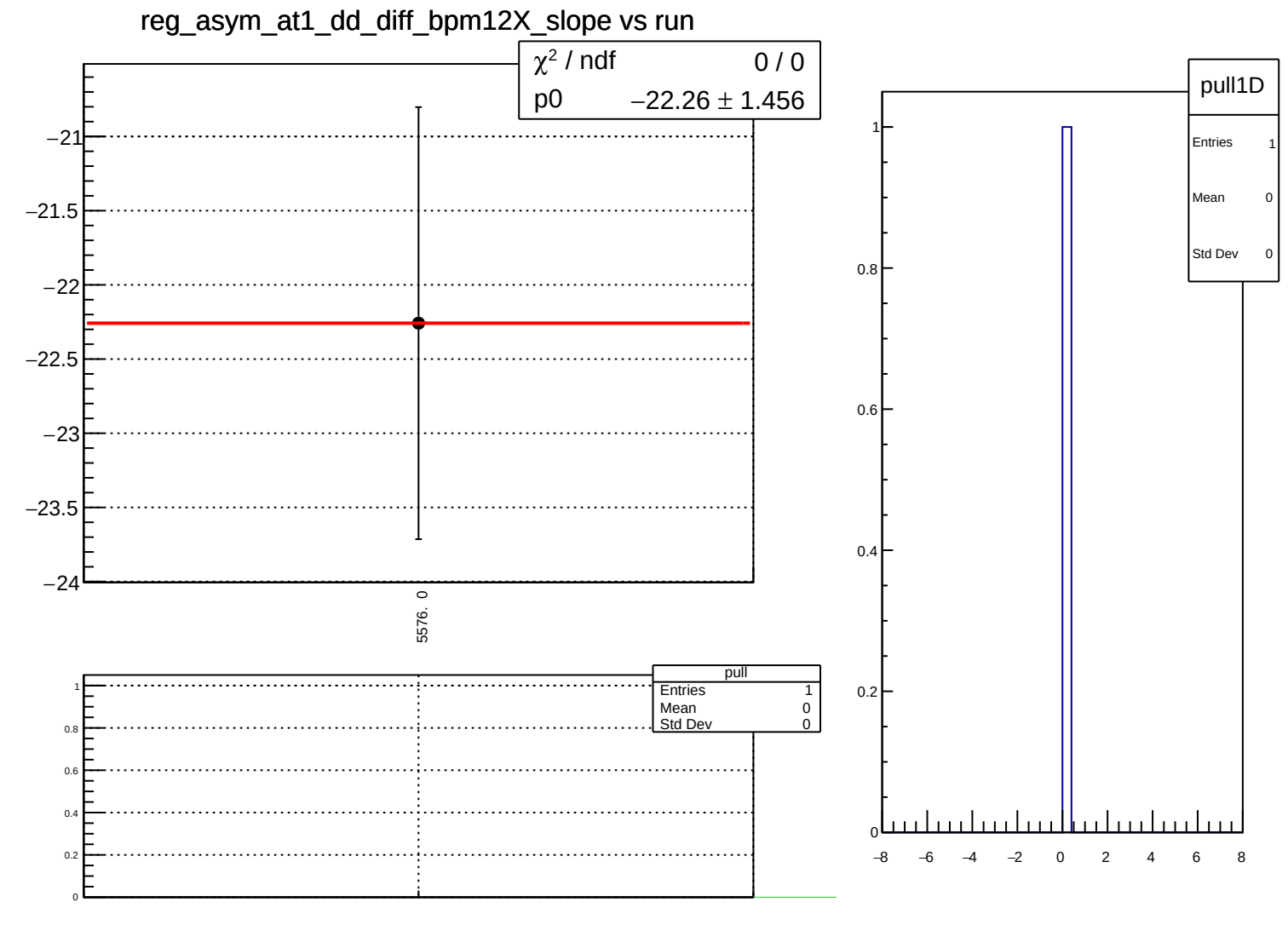

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

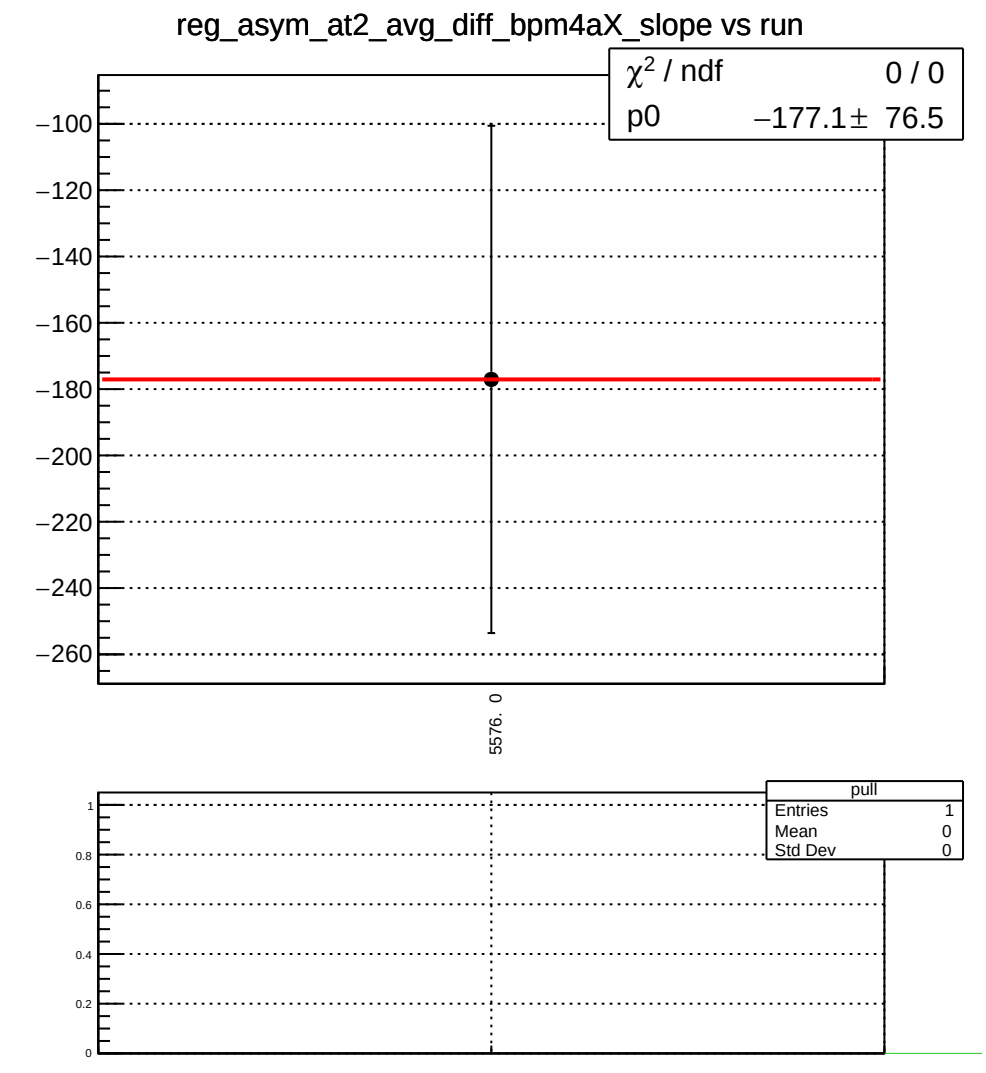

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

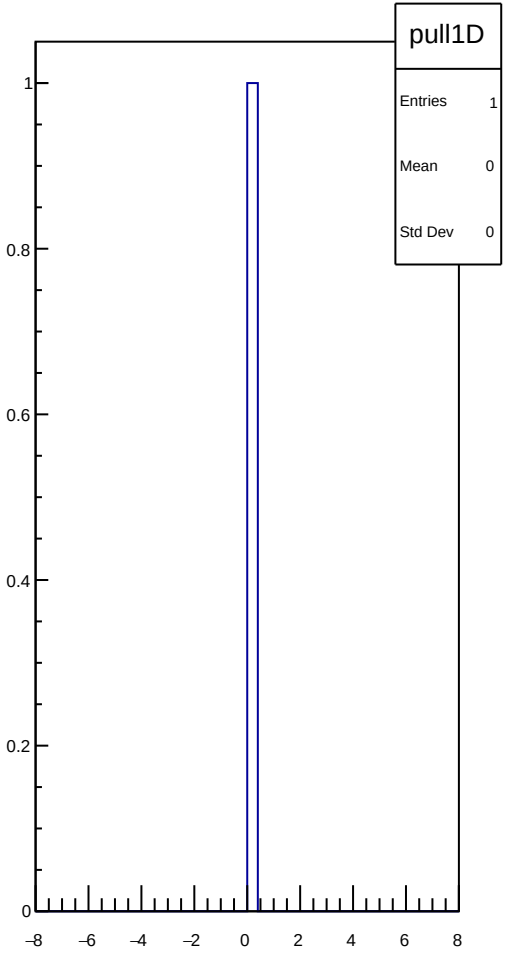

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.095e−31 / 0
p0 91.84 ± 42.94
140
120
100
80
60
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.309e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

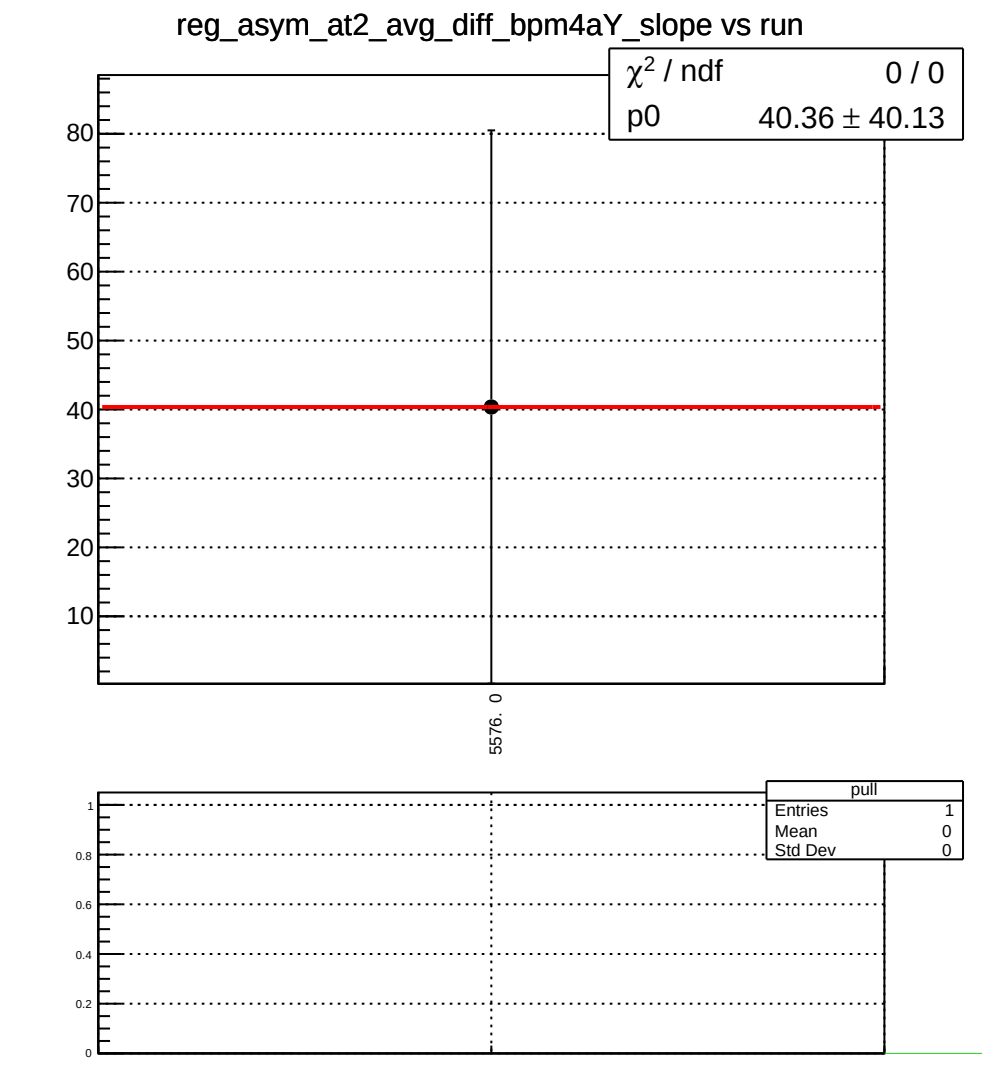

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 5.074e−32 / 0
p0 32.97 ± 31.54
70
60
50
40
30
20
10
5576. 0
×10^-15
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

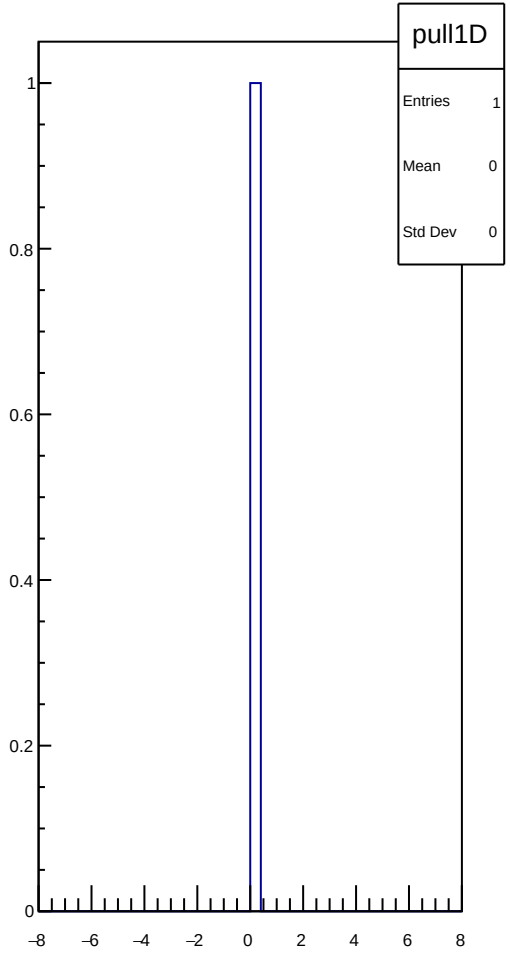

pull1D
Entries 1
Mean 2.252e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

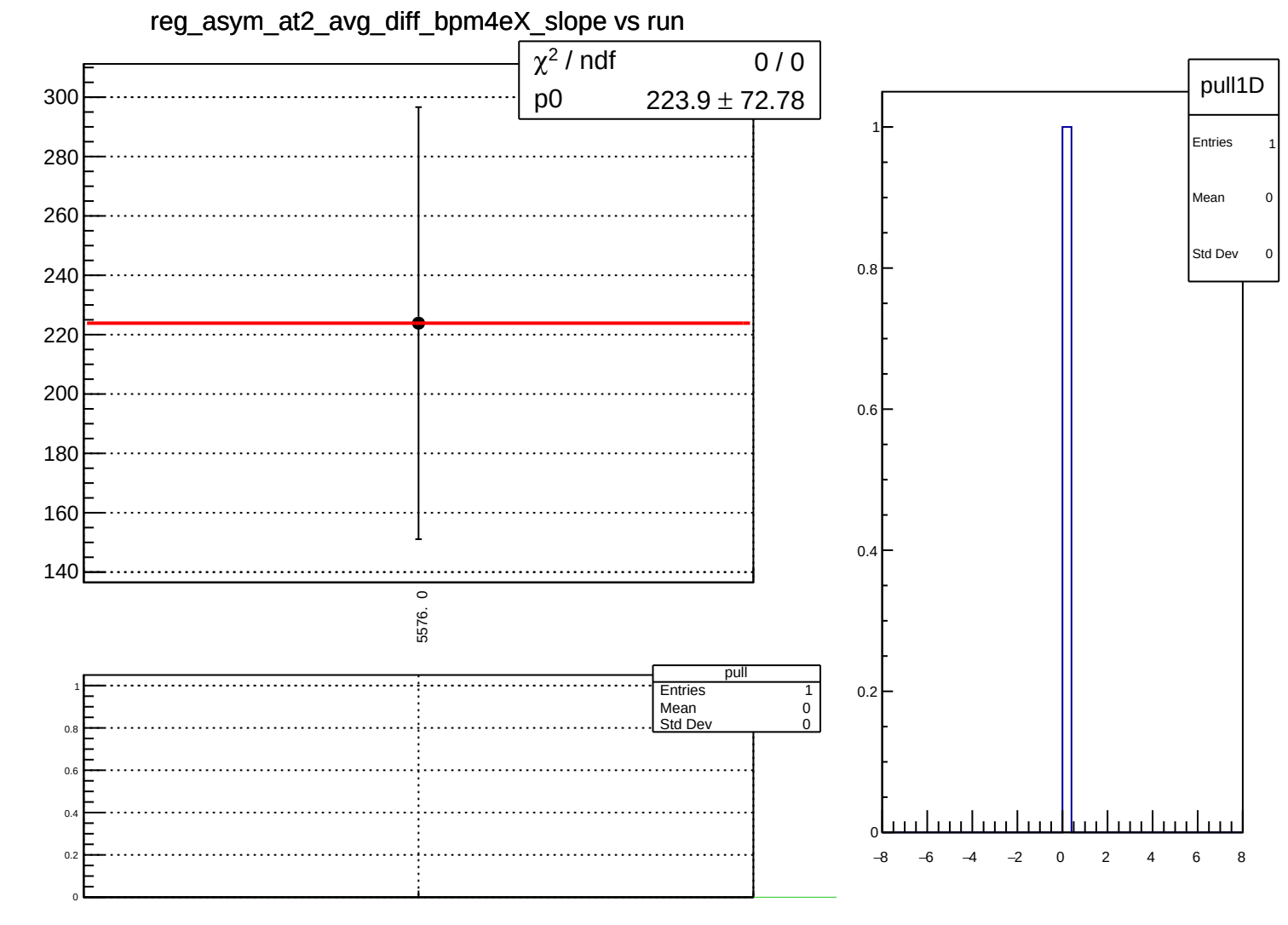

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −22.26 ± 1.456
−21
−21.5
−22
−22.5
−23
−23.5
−24
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

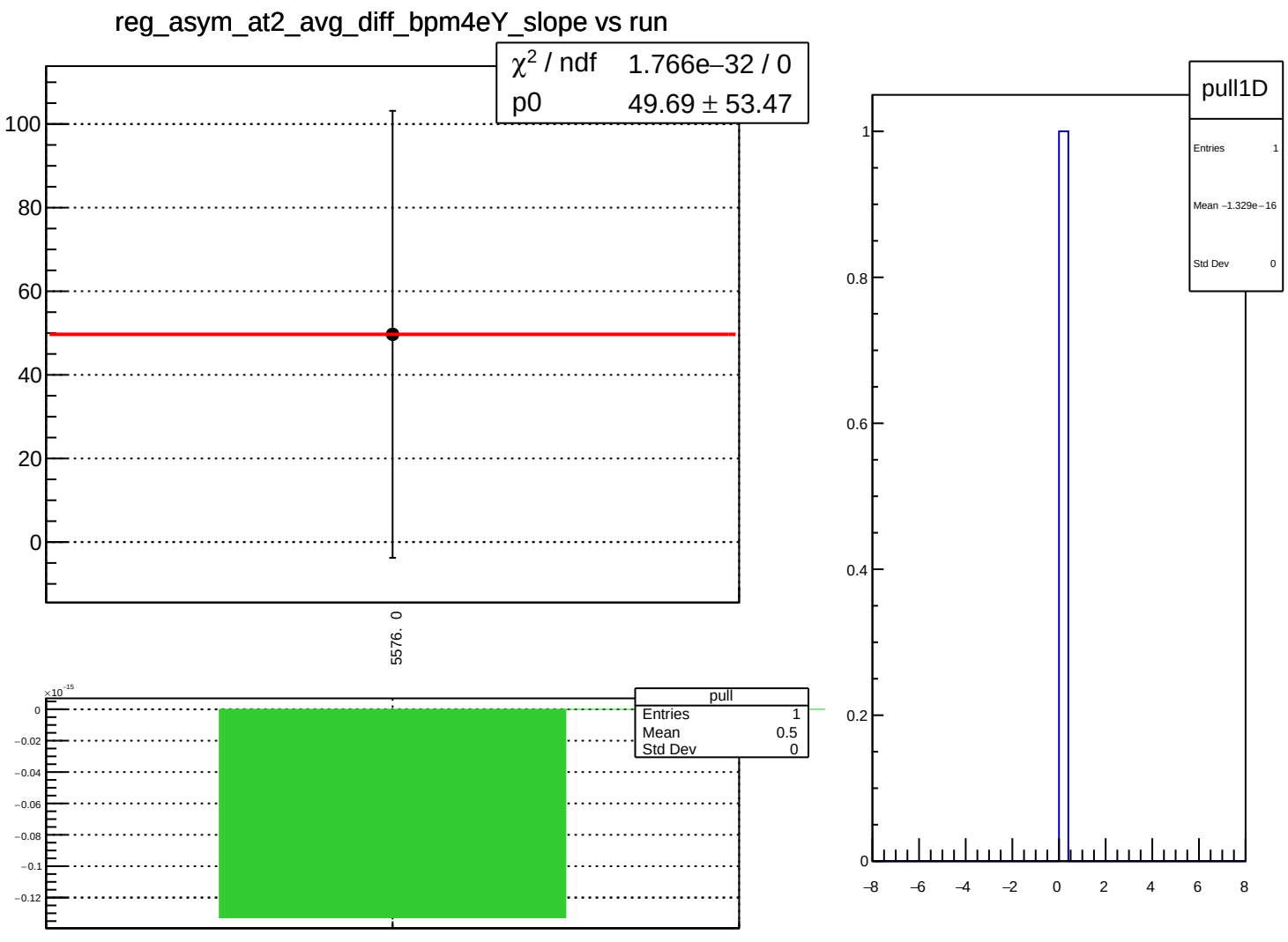

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −177.1± 76.5
−100
−120
−140
−160
−180
−200
−220
−240
−260
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

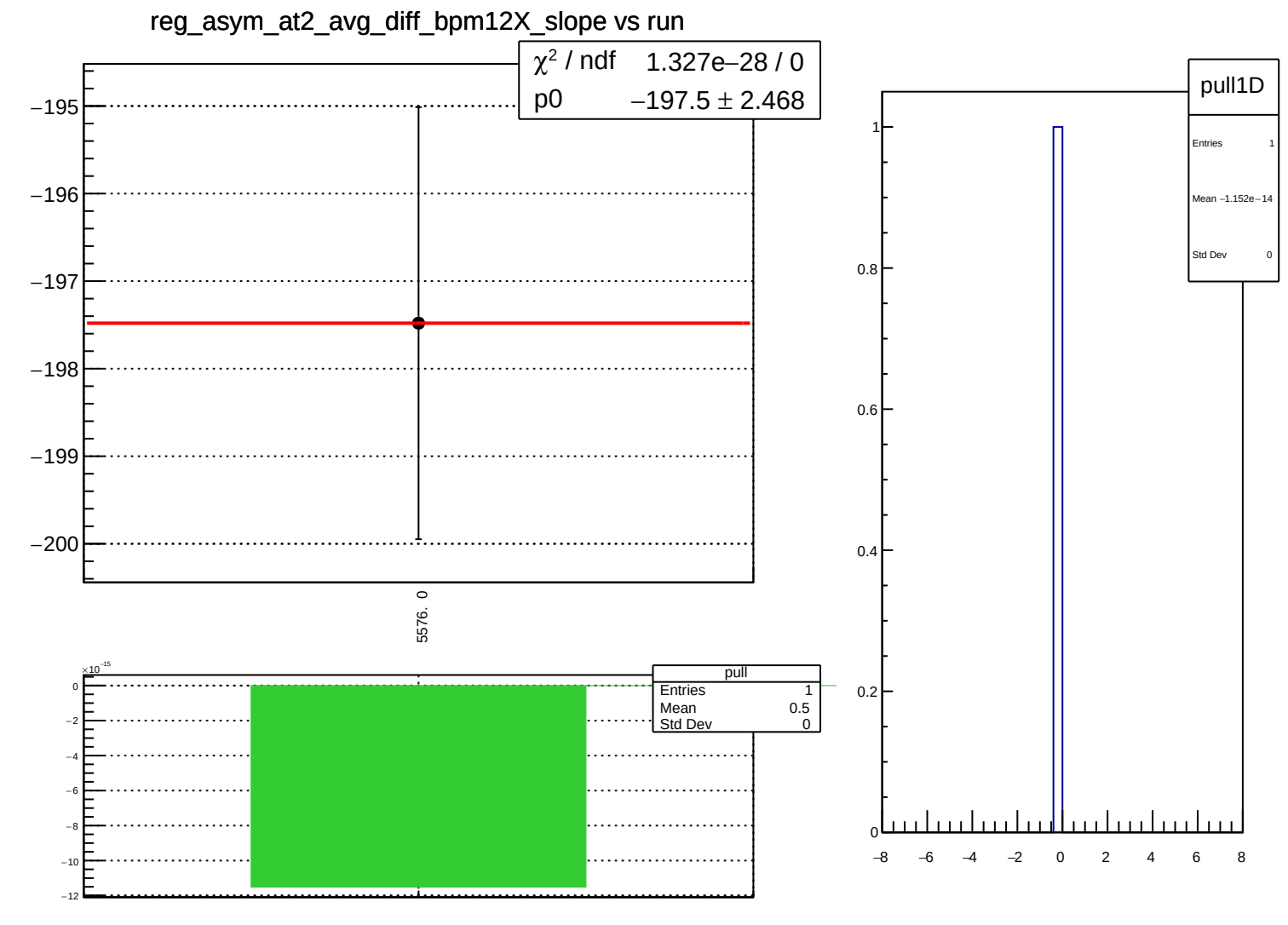

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

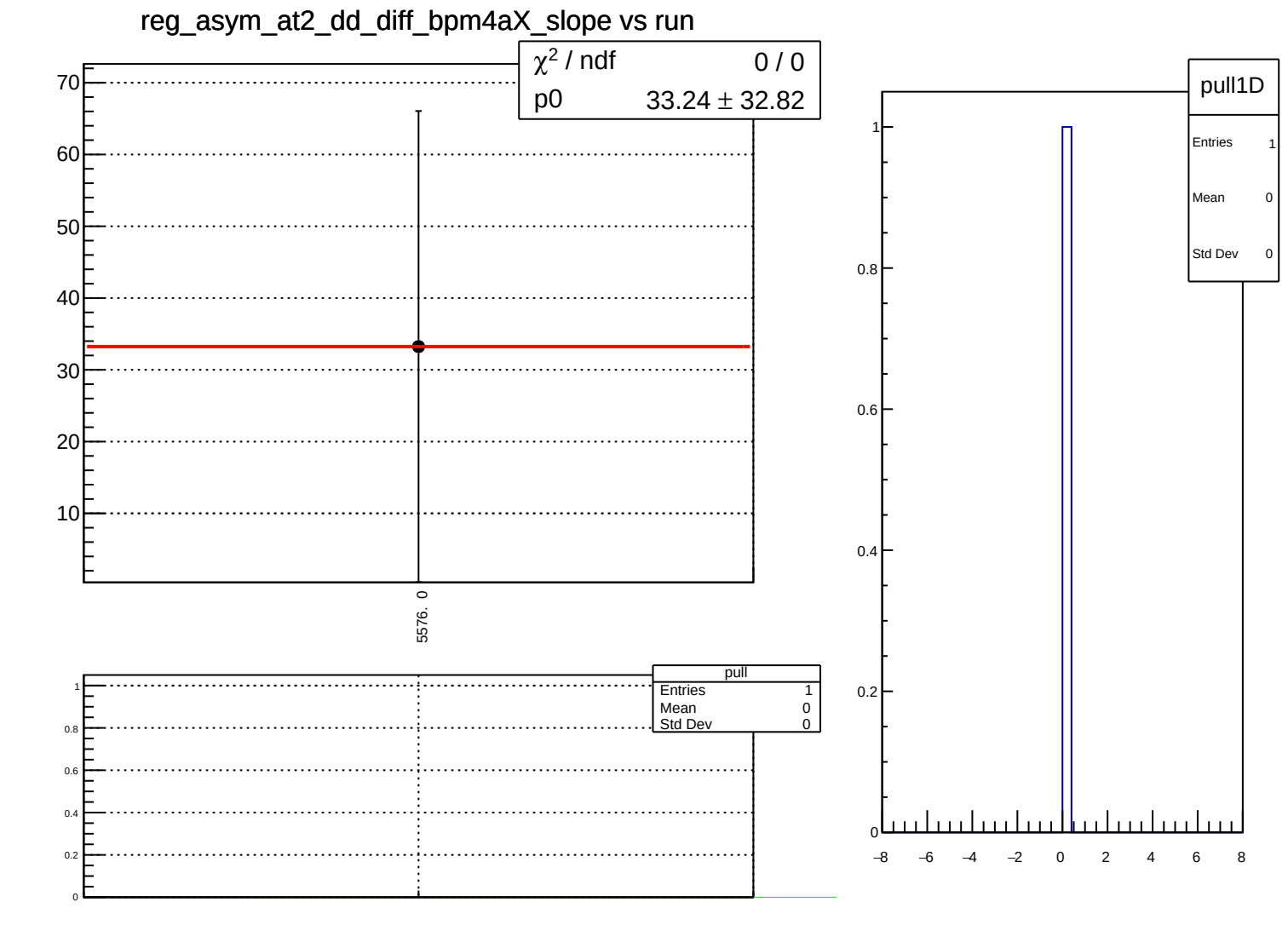

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 40.36 ± 40.13
80
70
60
50
40
30
20
10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

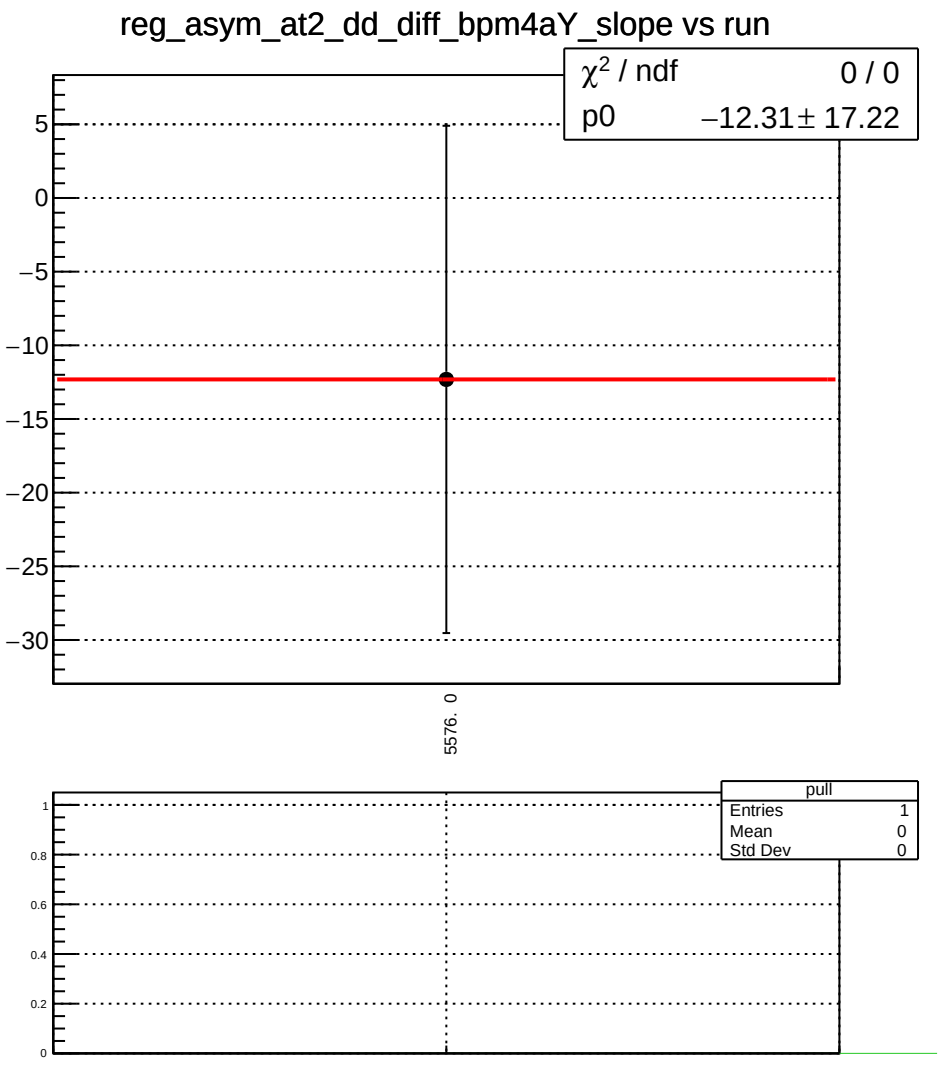

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

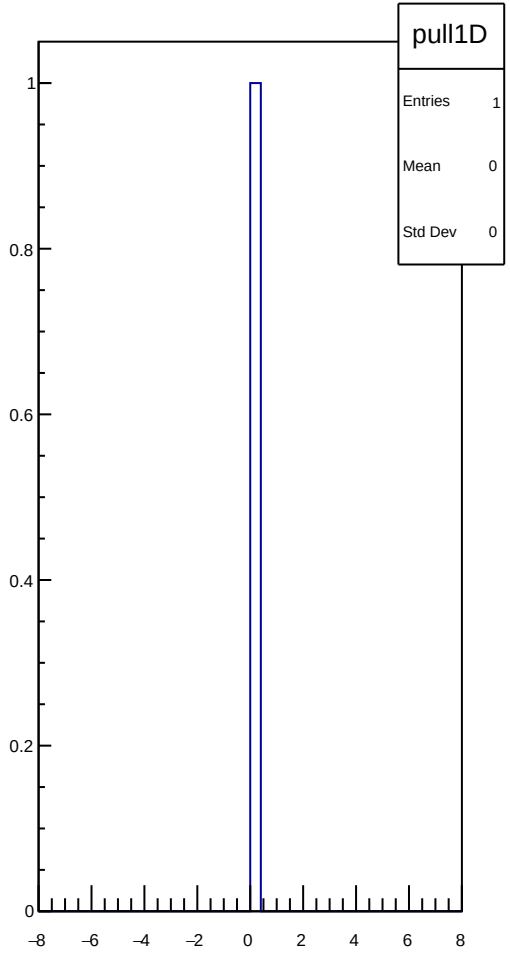

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 223.9 ± 72.78
300
280
260
240
220
200
180
160
140
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

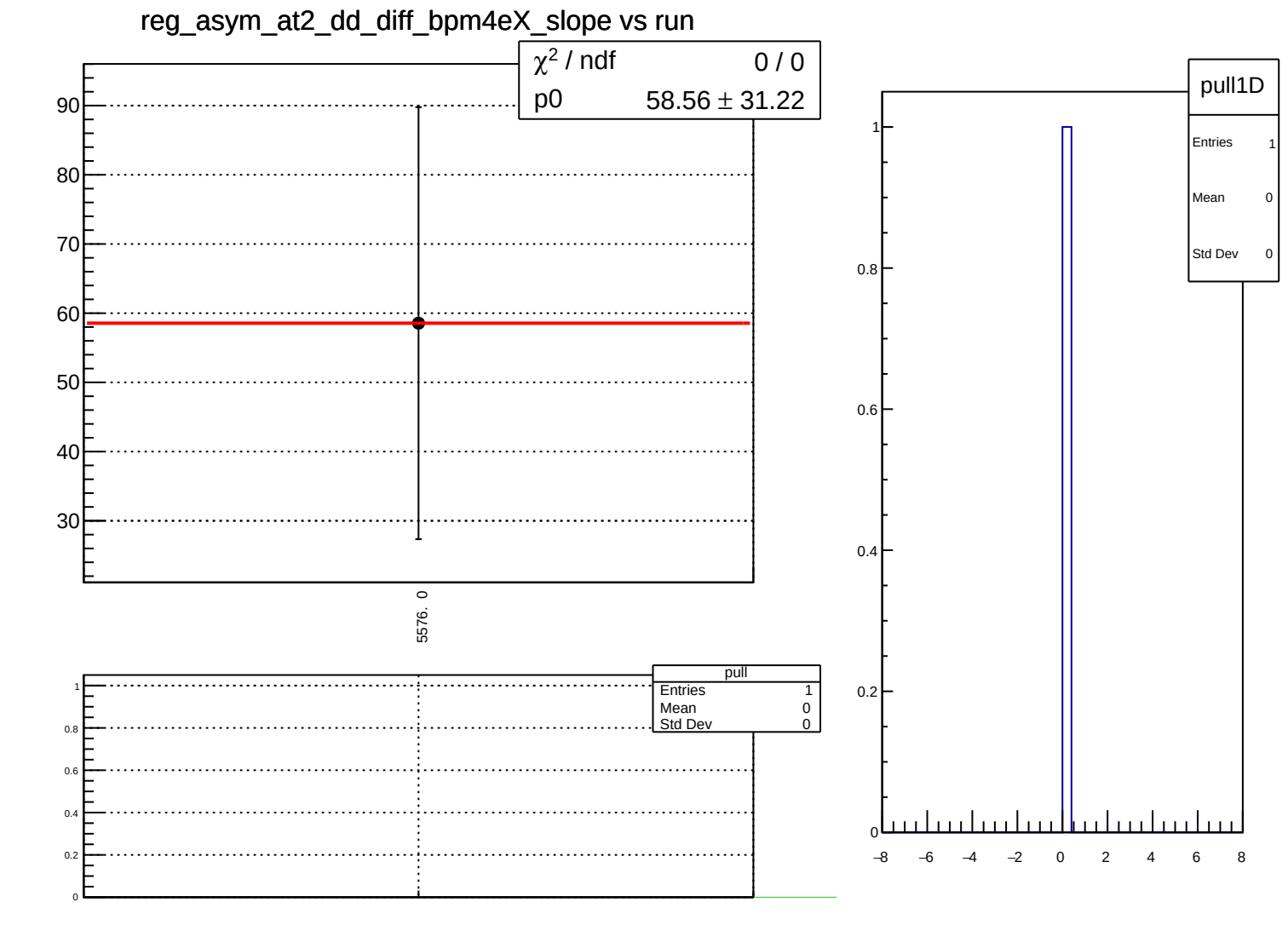

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.766e−32 / 0
p0 49.69 ± 53.47
100
80
60
40
20
0
5576. 0
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.329e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

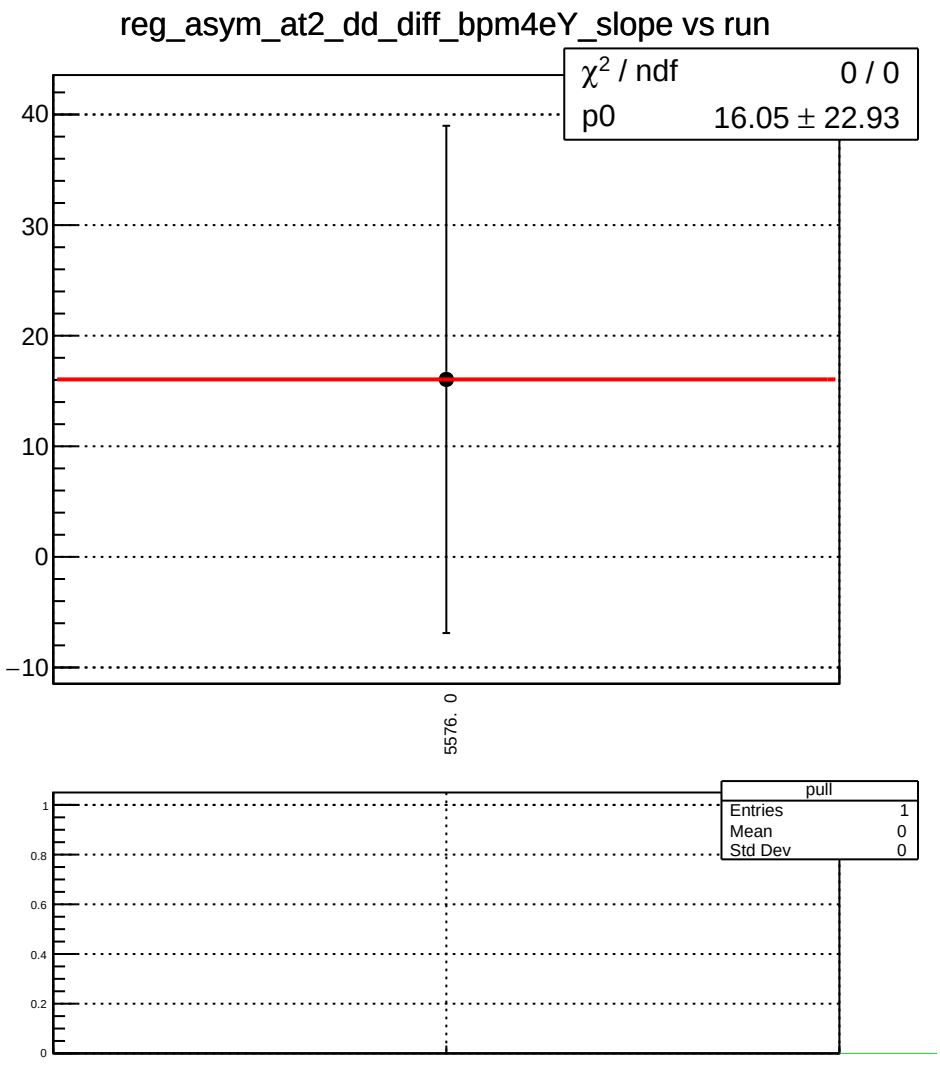

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.327e−28 / 0
p0 −197.5 ± 2.468
−195
−196
−197
−198
−199
−200
5576. 0
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.152e−14
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

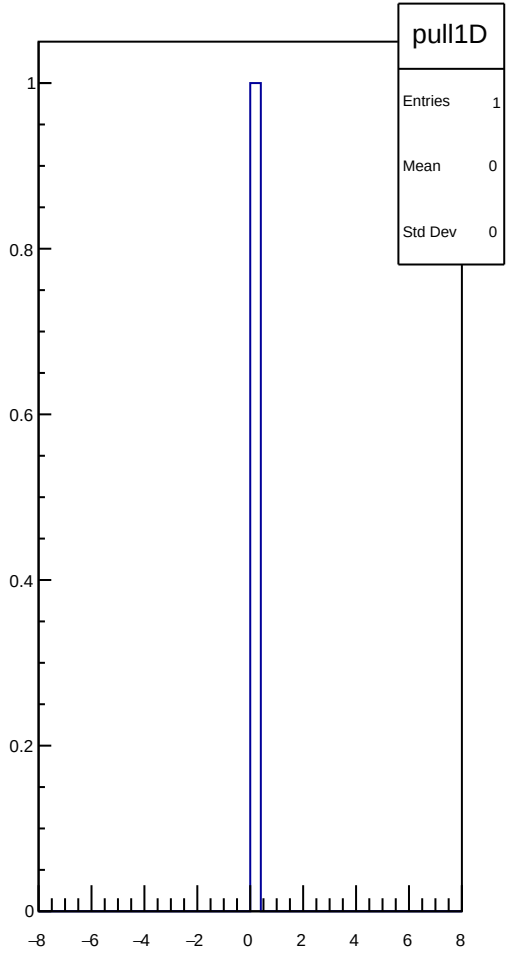

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 33.24 ± 32.82
70
60
50
40
30
20
10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

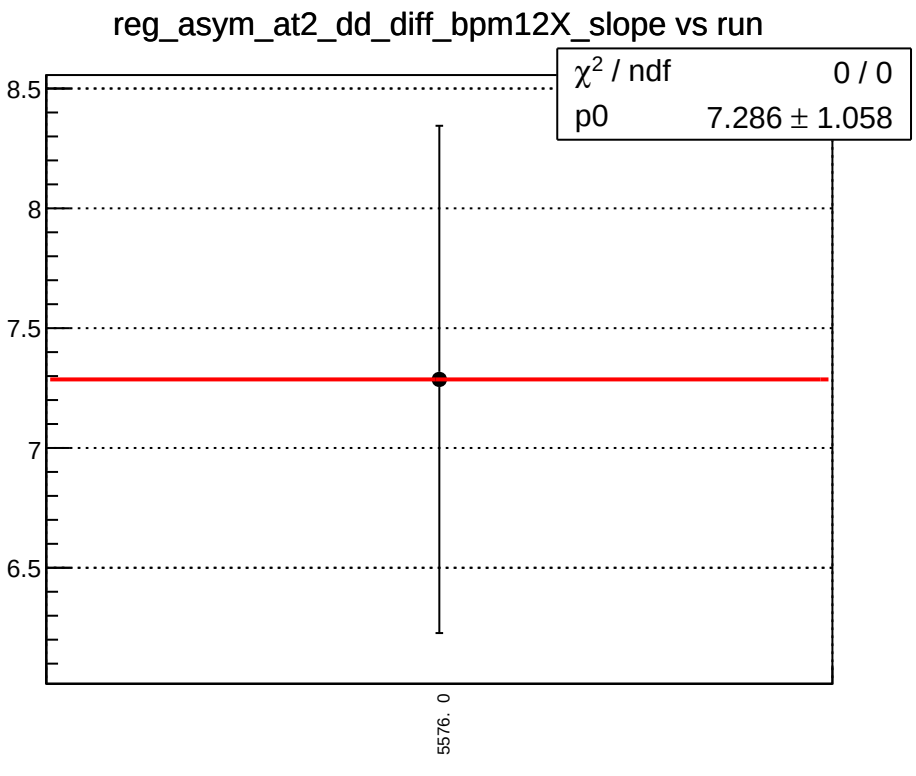

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −12.31 ± 17.22
5
0
−5
−10
−15
−20
−25
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

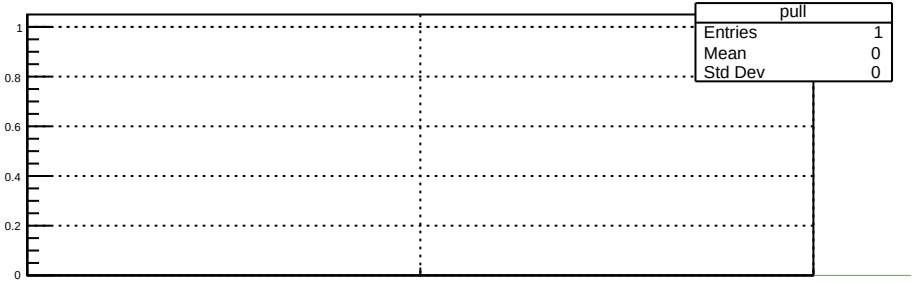

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

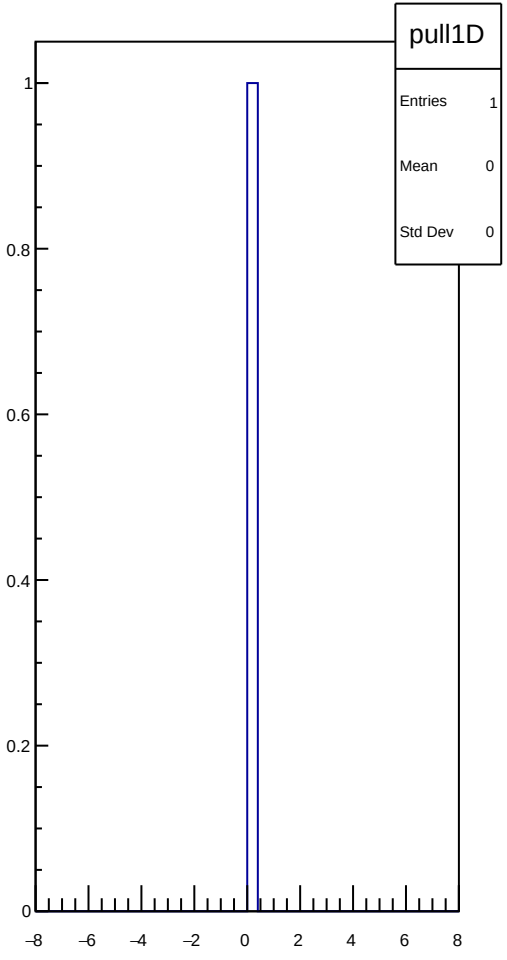

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 58.56 ± 31.22
90
80
70
60
50
40
30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

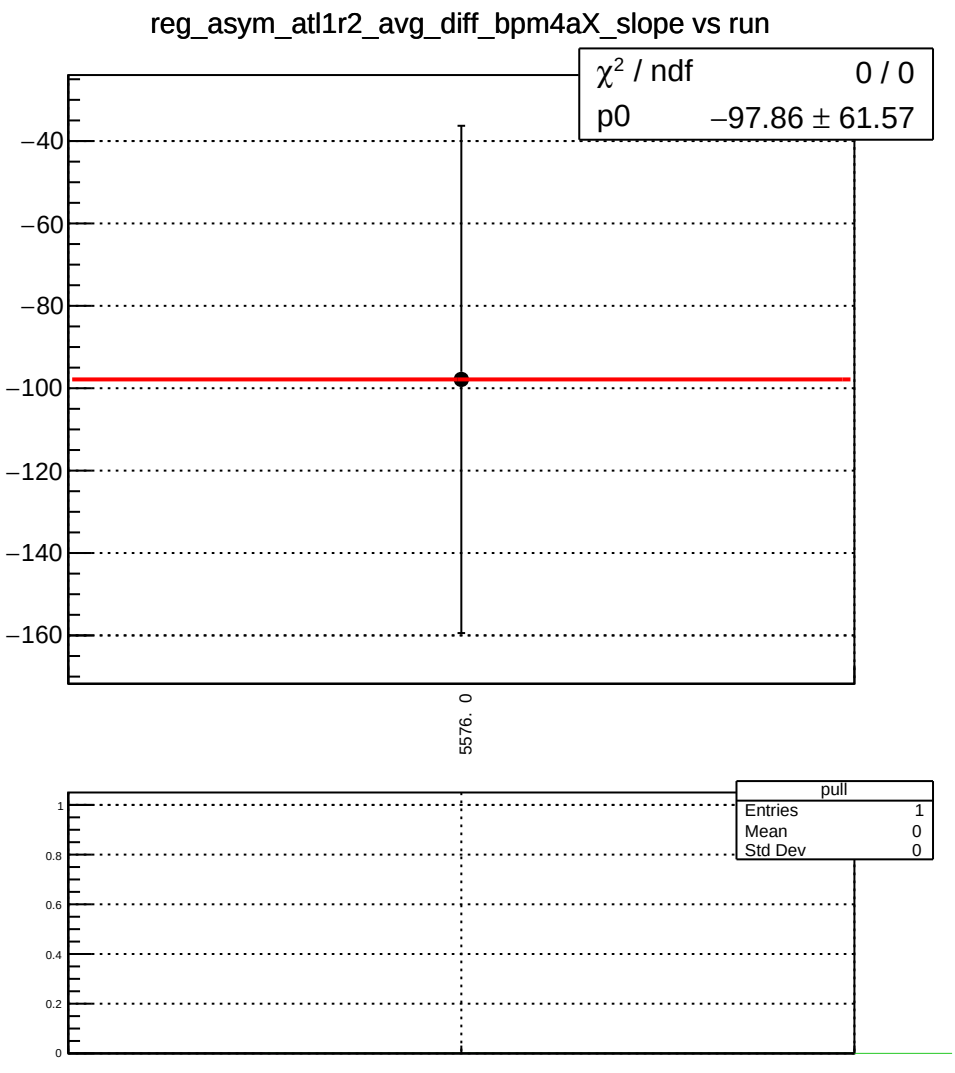

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 16.05 ± 22.93
40
30
20
10
0
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

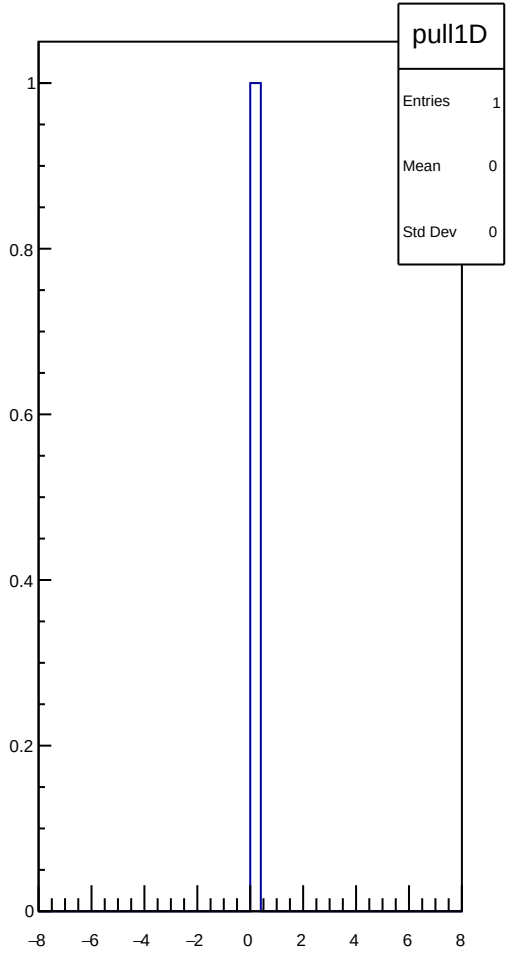

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

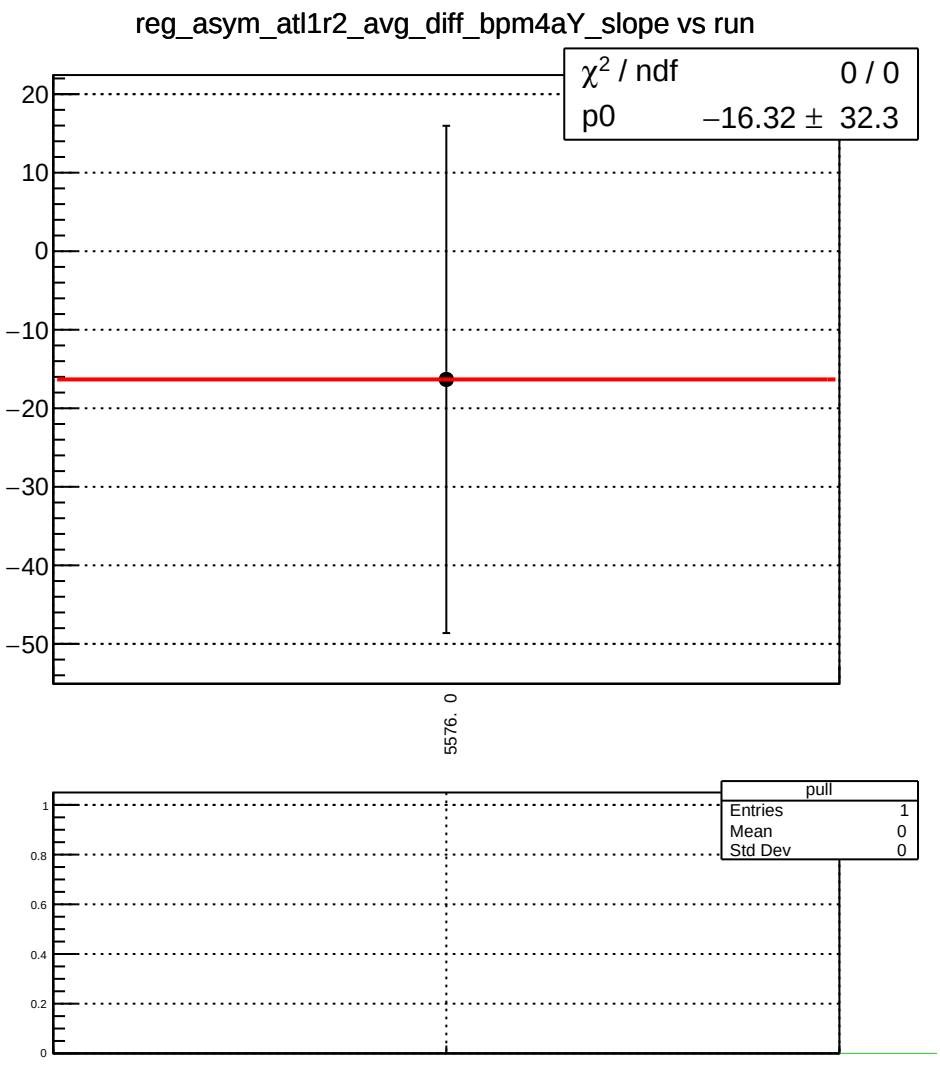

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 7.286 ± 1.058
8.5
8
7.5
7
6.5
5576. 0

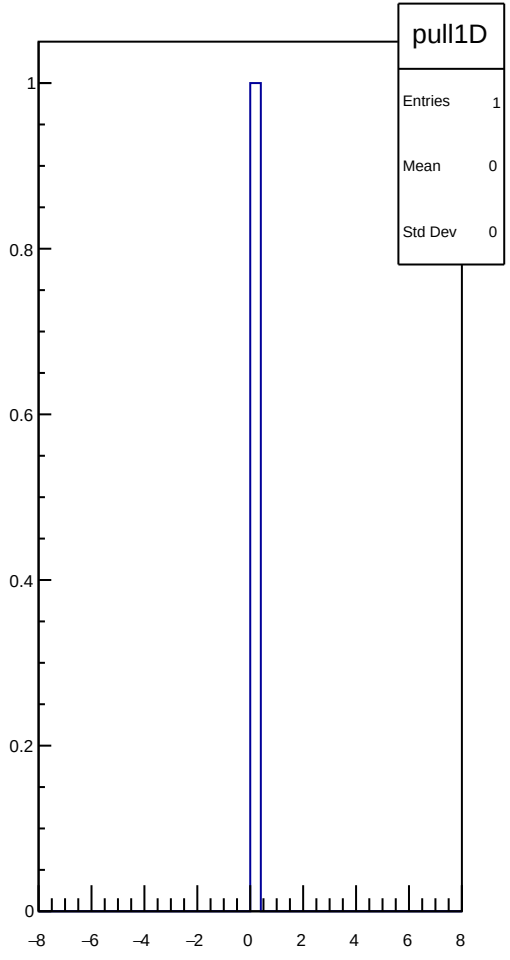

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

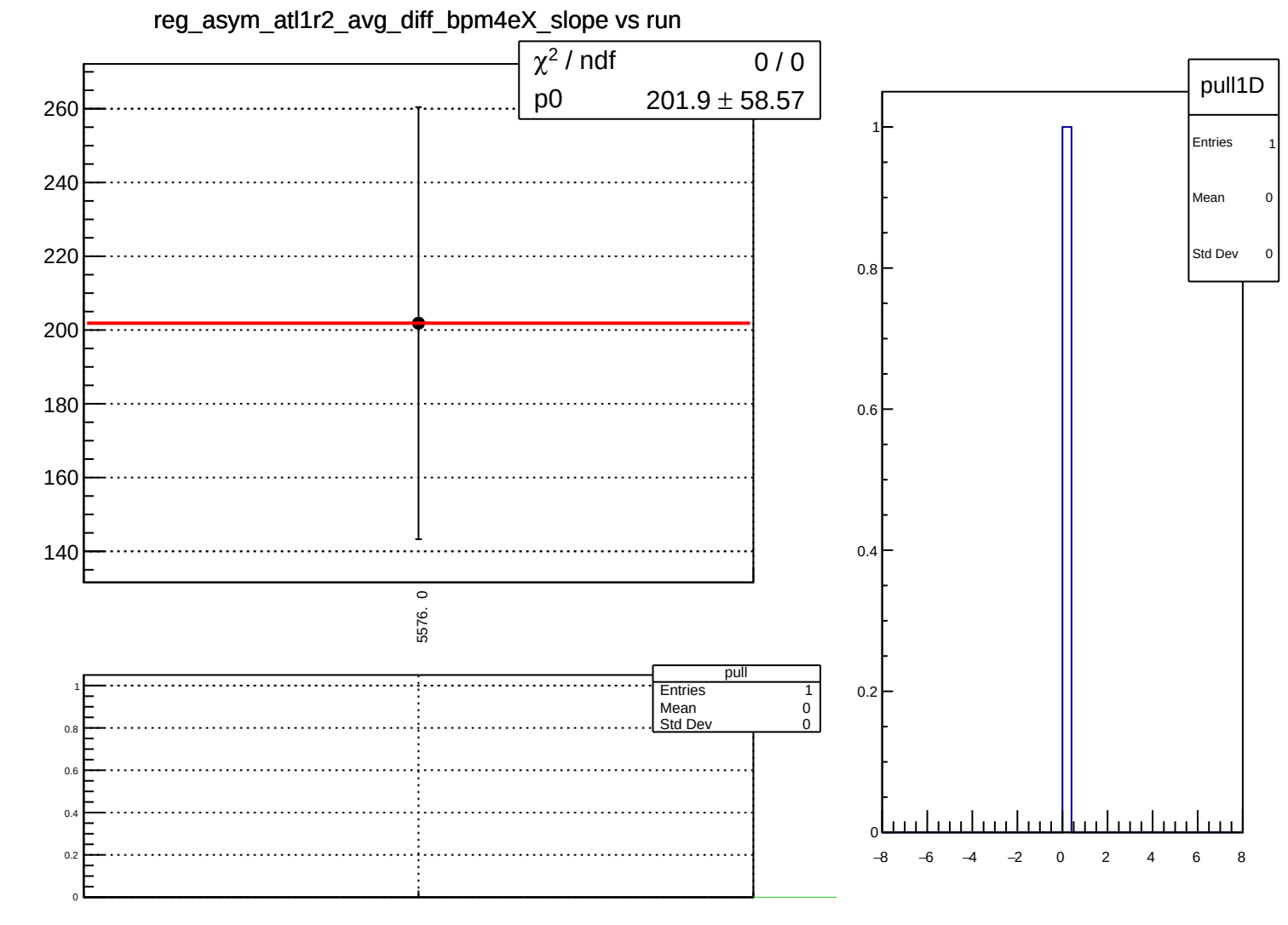

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

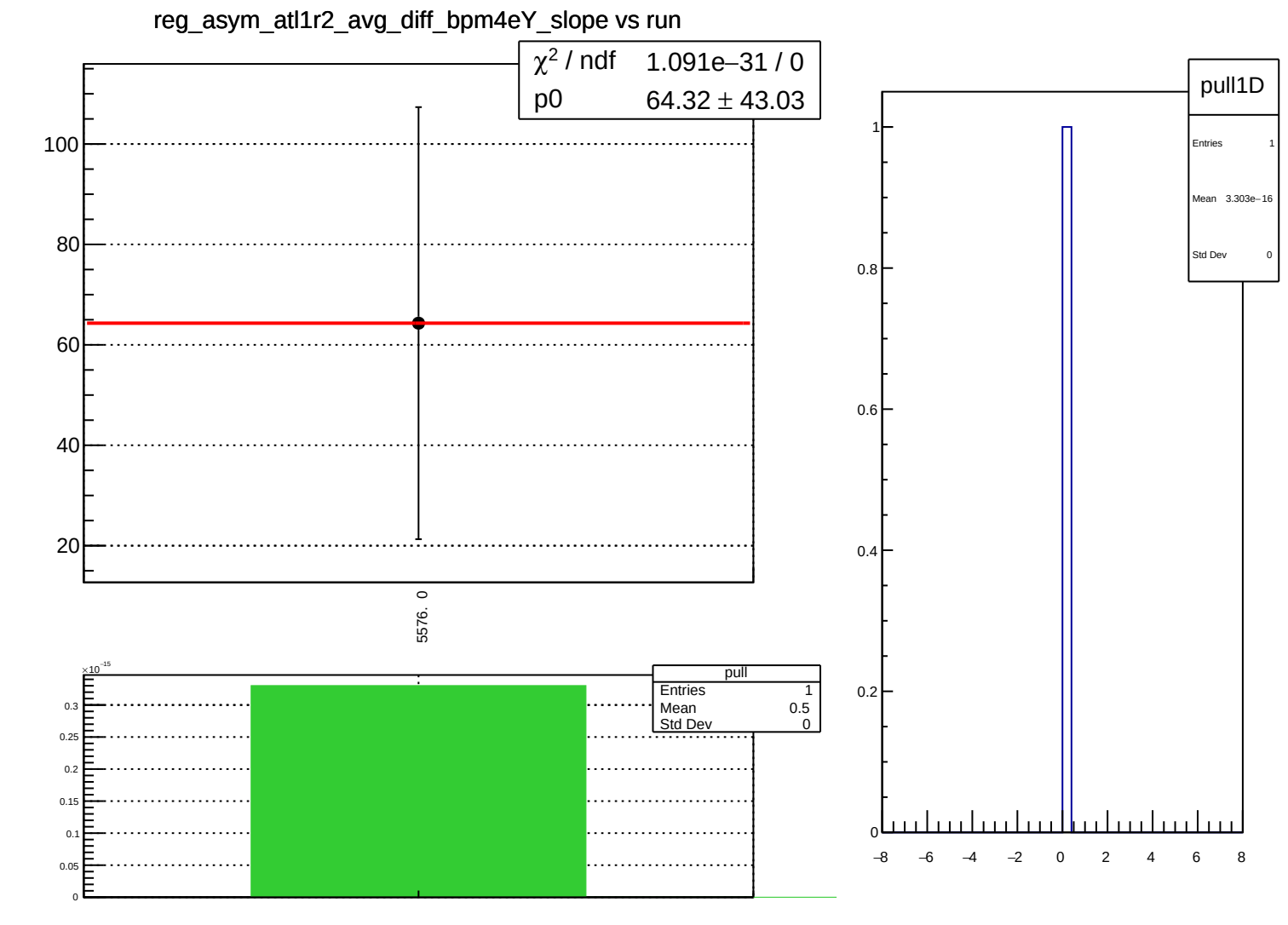

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −97.86 ± 61.57
−40
−60
−80
−100
−120
−140
−160
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

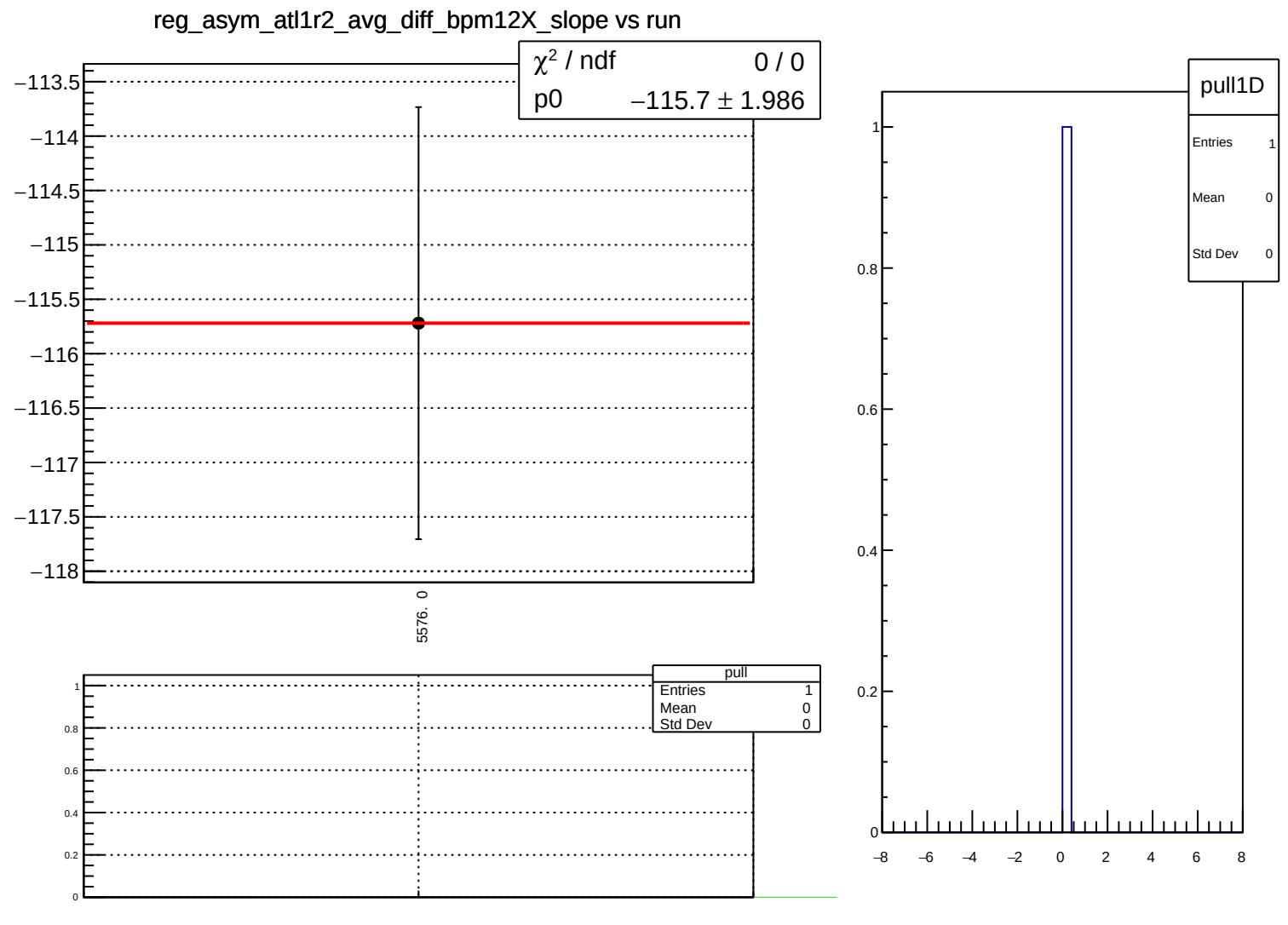

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

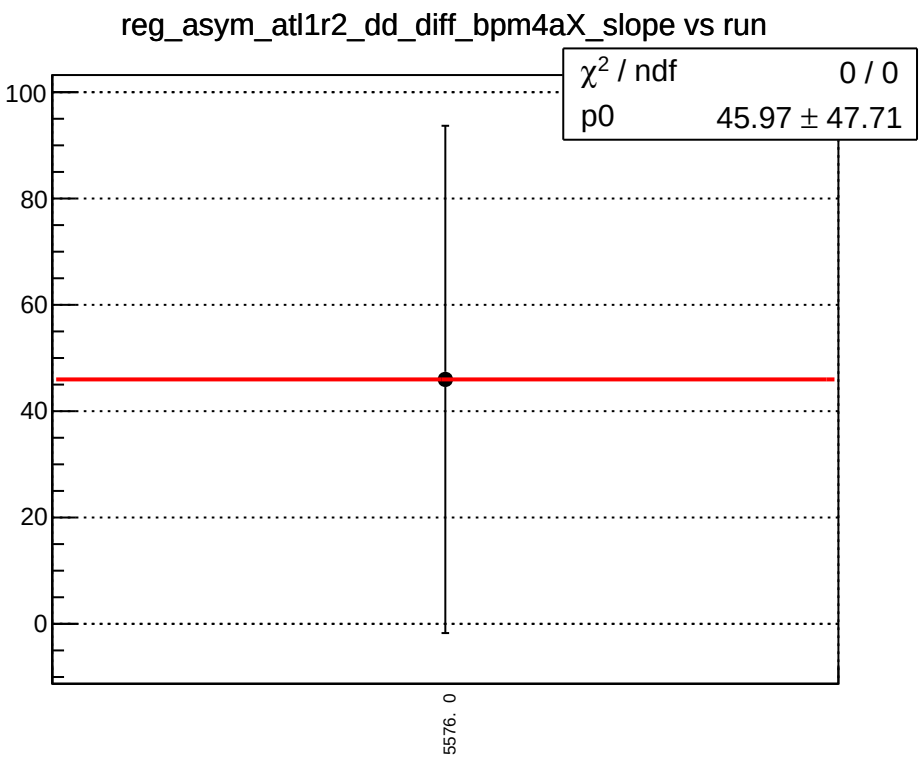

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −16.32 ± 32.3
20
10
0
−10
−20
−30
−40
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

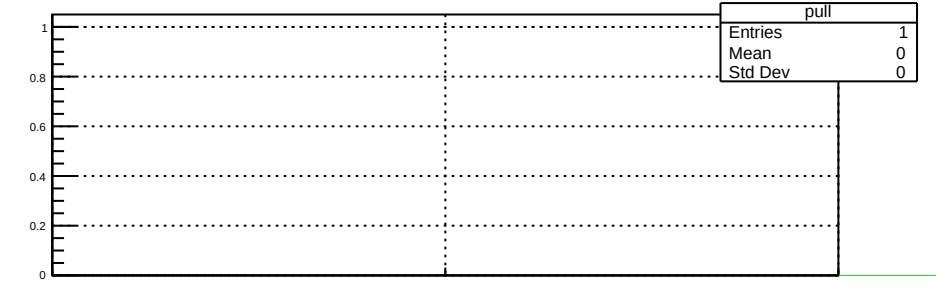

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

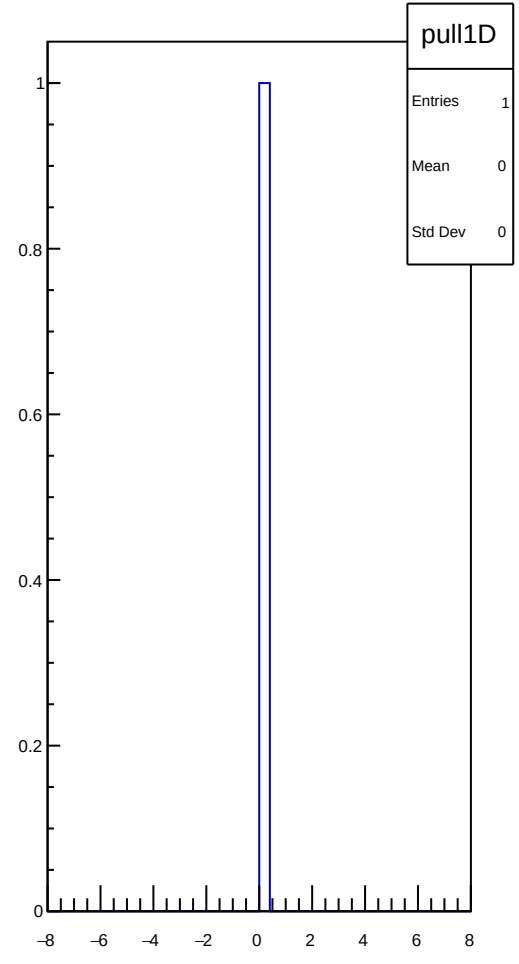

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 201.9 ± 58.57
260
240
220
200
180
160
140
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

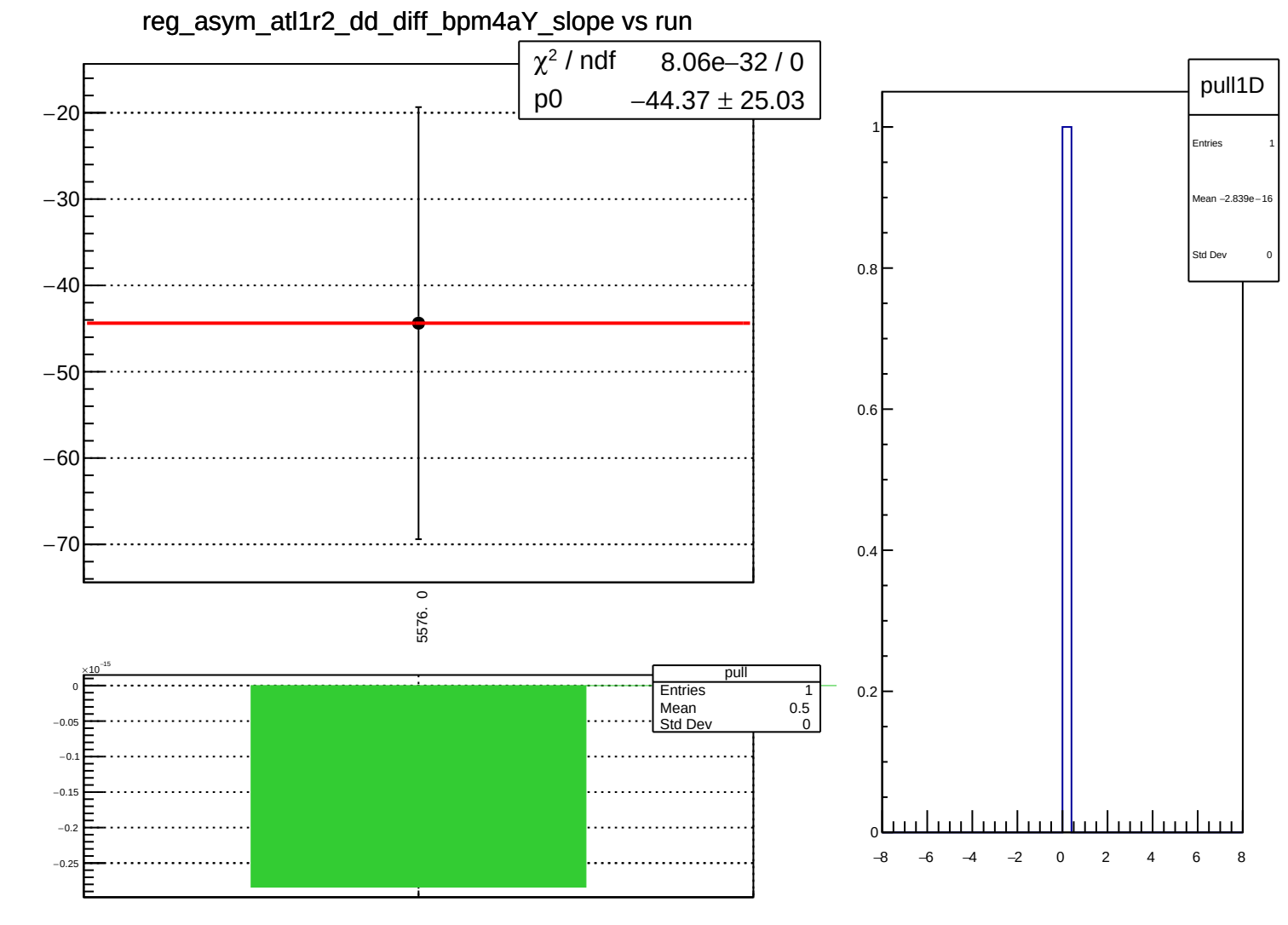

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.091e−31 / 0
p0 64.32 ± 43.03
100
80
60
40
20
5576. 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 3.303e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

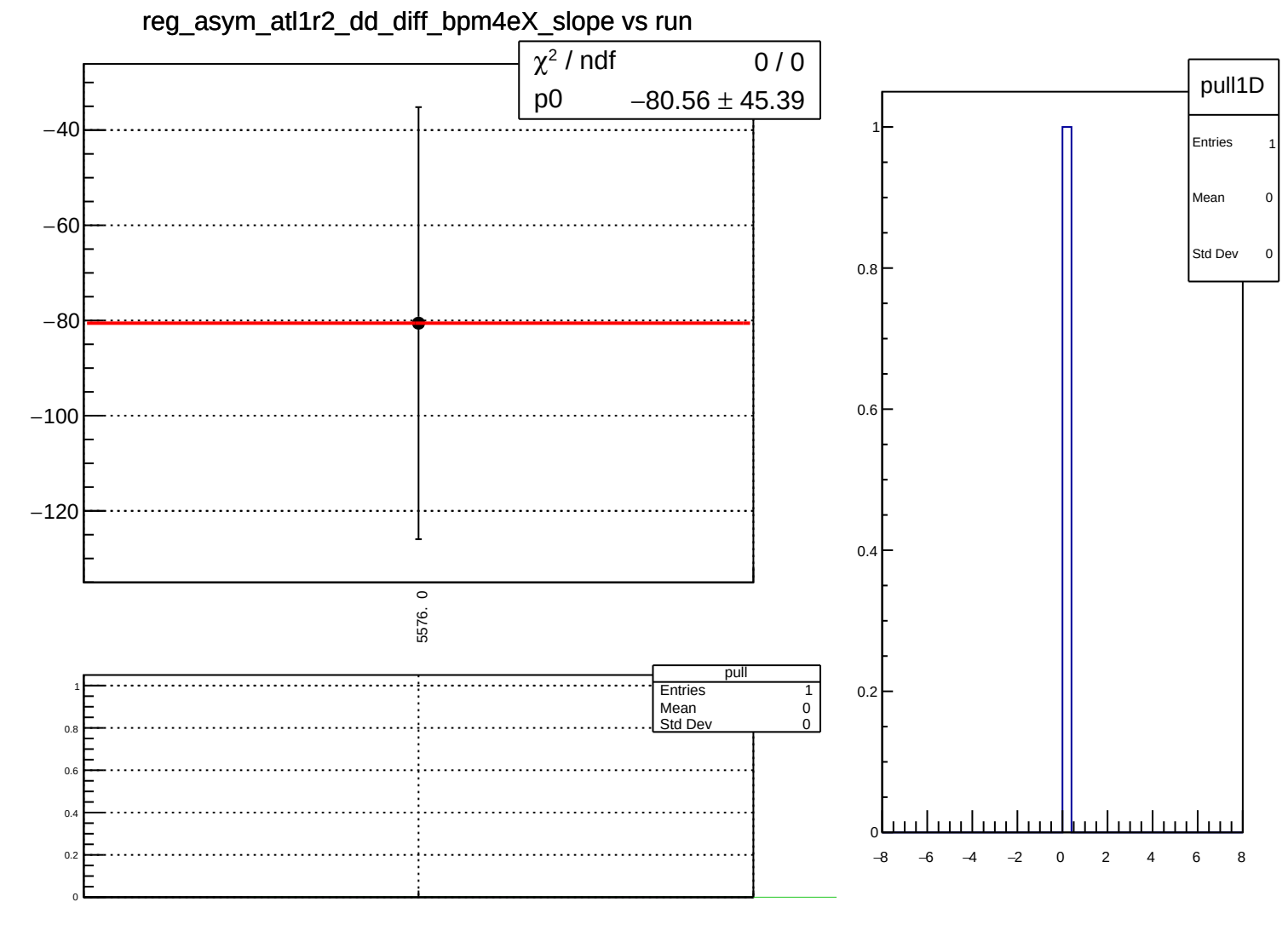

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −115.7 ± 1.986
−113.5
−114
−114.5
−115
−115.5
−116
−116.5
−117
−117.5
−118
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

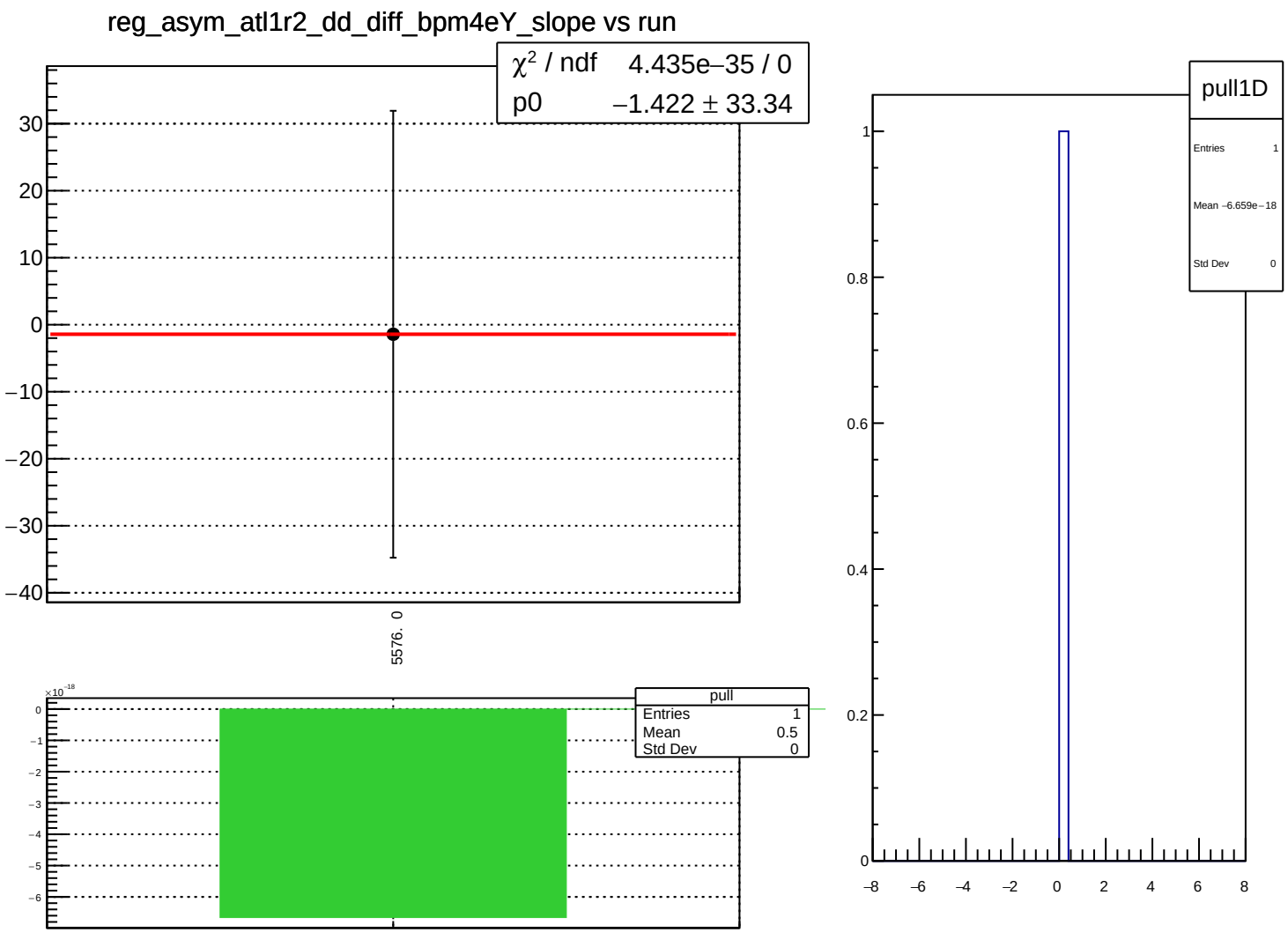

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 45.97 ± 47.71
100
80
60
40
20
0
5576. 0

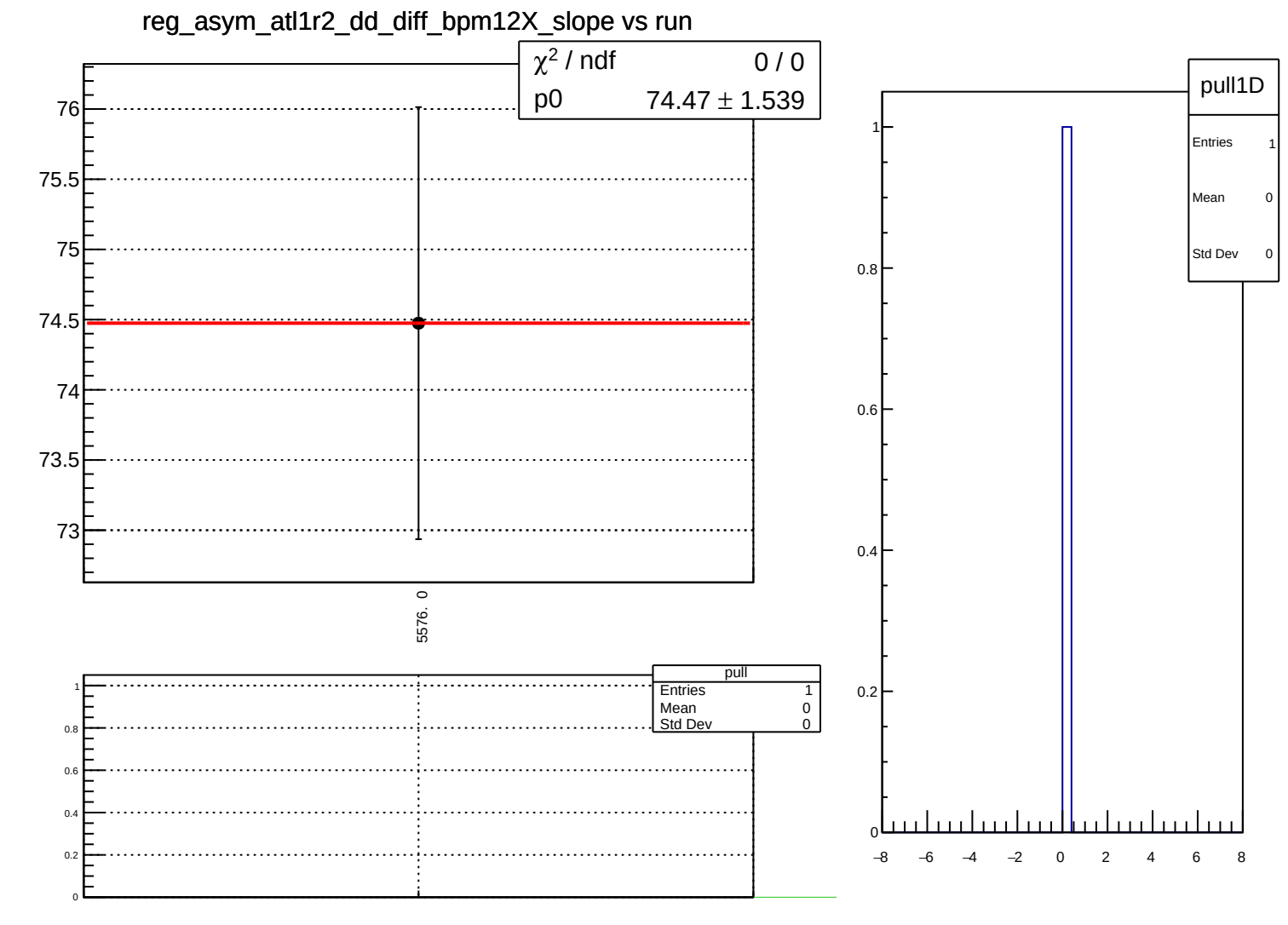

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

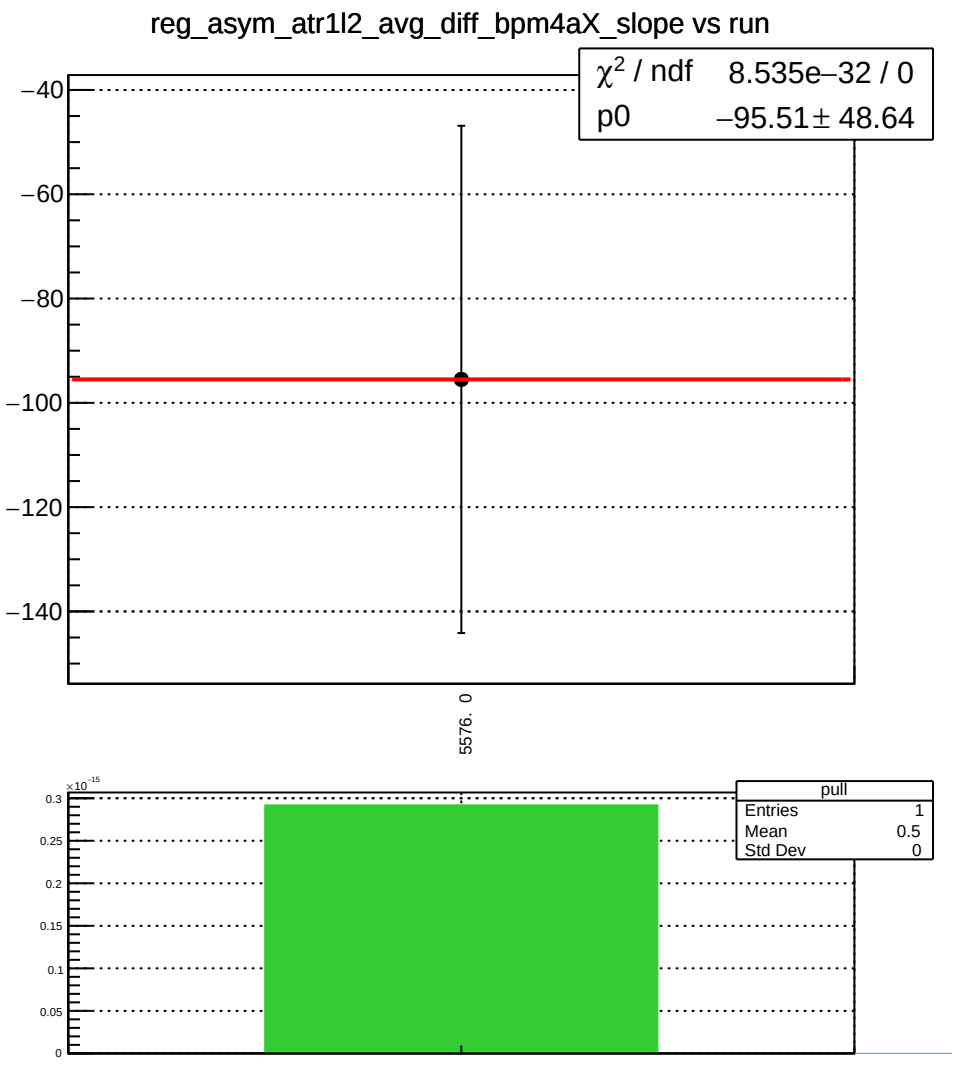

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

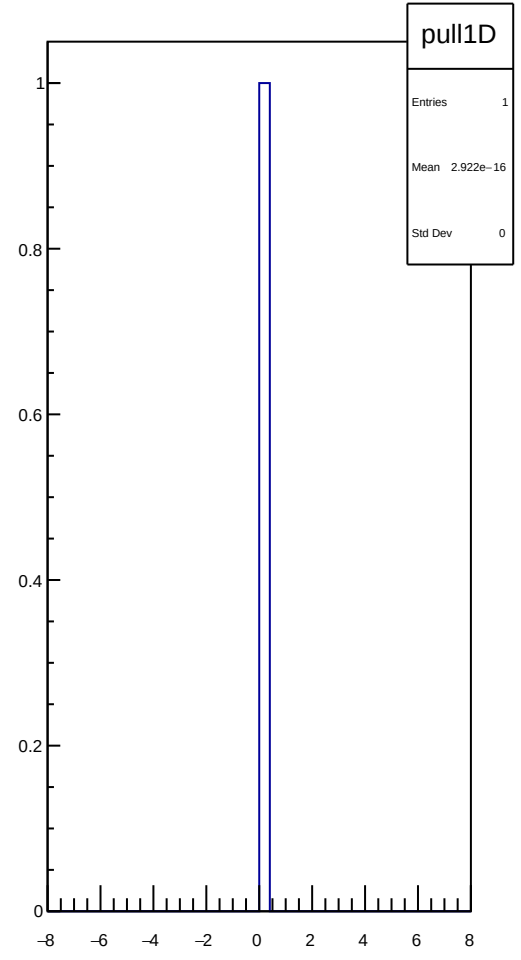

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.06e−32 / 0
p0 −44.37 ± 25.03
−20
−30
−40
−50
−60
−70
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.839e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

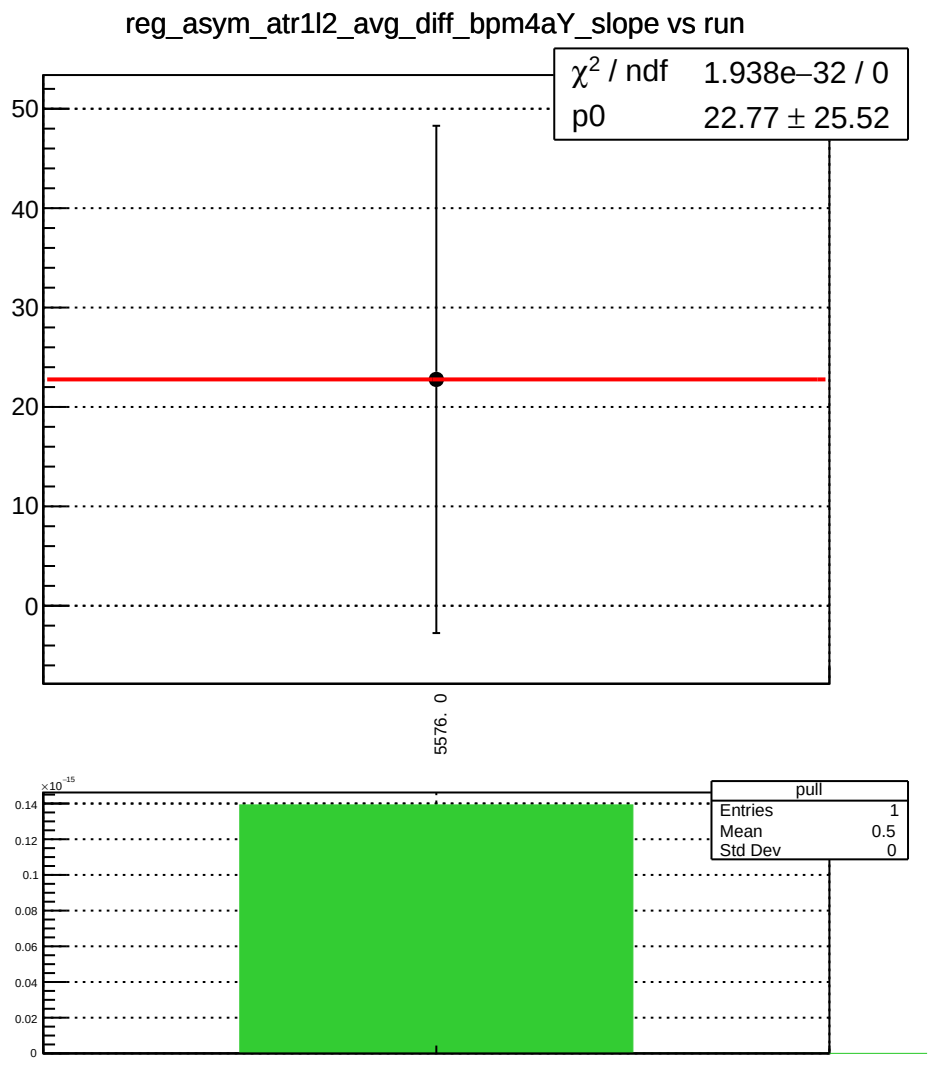

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −80.56 ± 45.39
−40
−60
−80
−100
−120
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

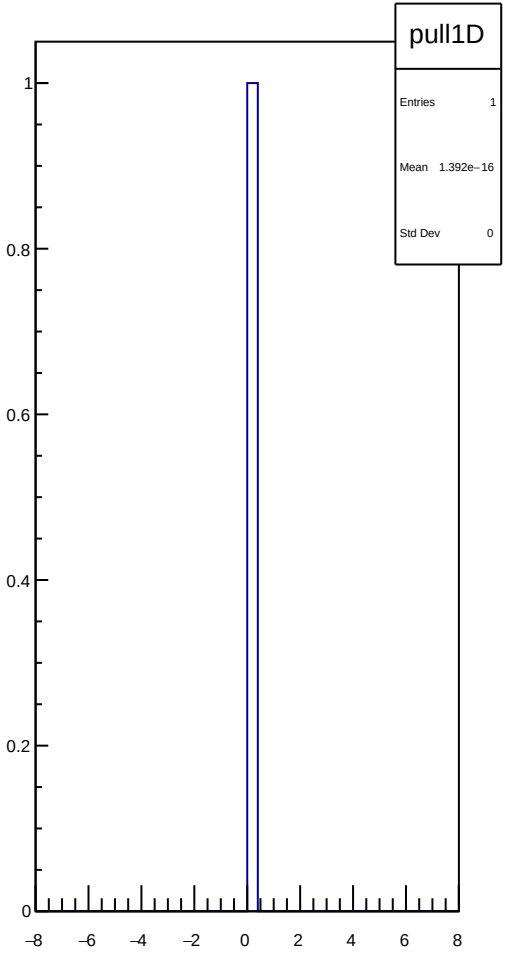

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.435e−35 / 0
p0 −1.422 ± 33.34
30
20
10
0
−10
−20
−30
−40
5576. 0
×10⁻¹⁸
0
−1
−2
−3
−4
−5
−6
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −6.659e−18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

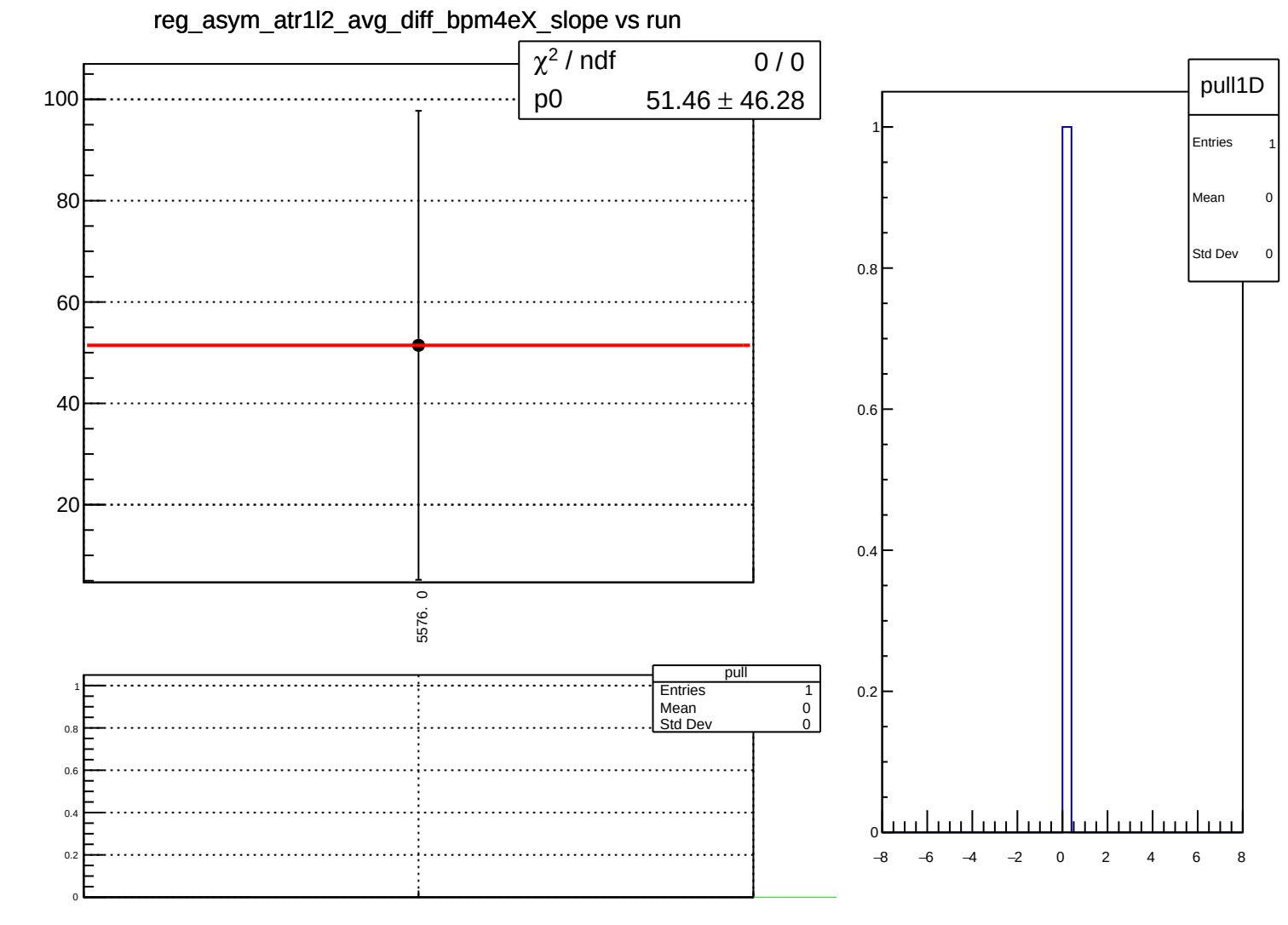

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 74.47 ± 1.539
76
75.5
75
74.5
74
73.5
73
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

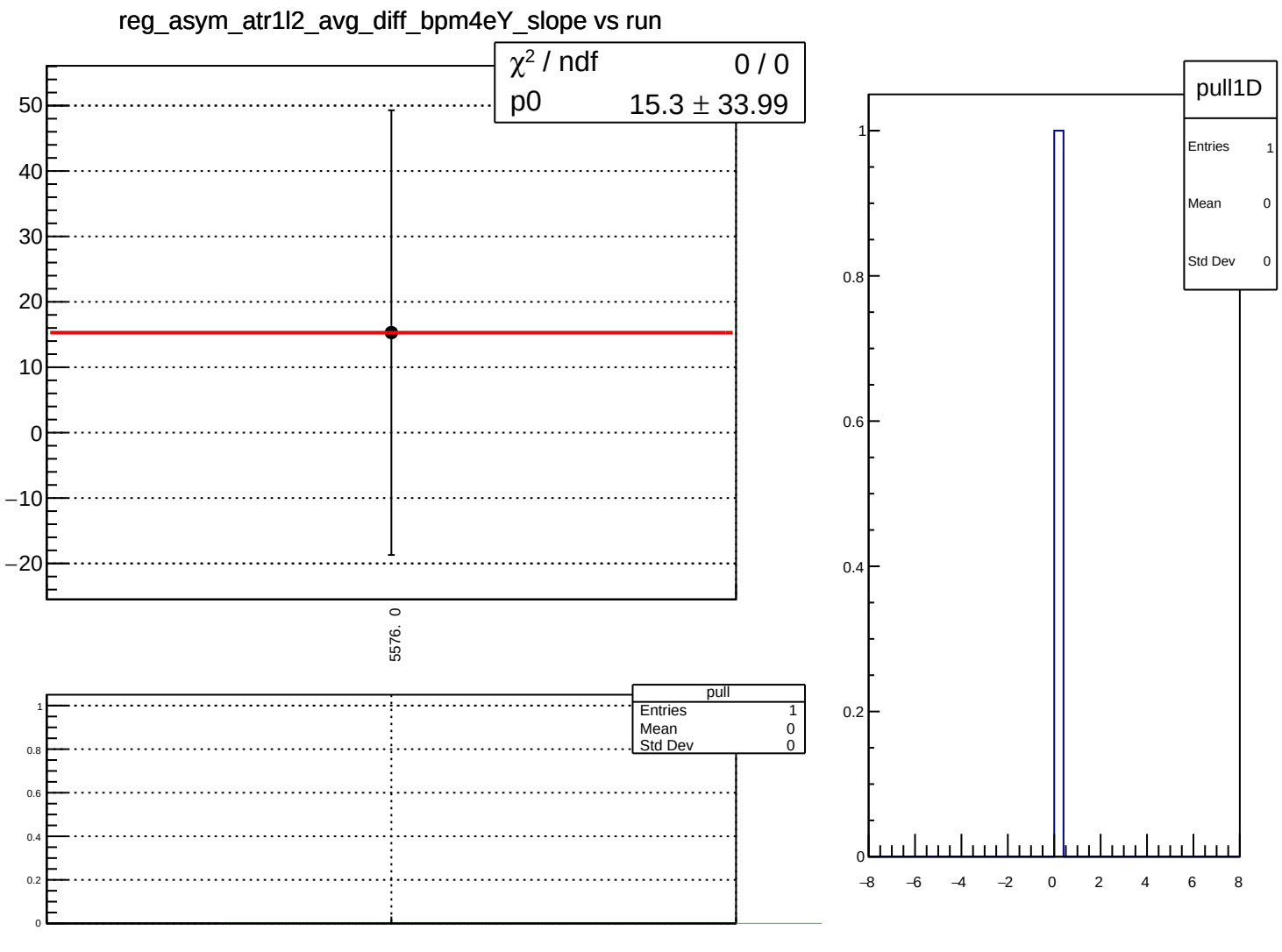

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.535e−32 / 0
p0 −95.51 ± 48.64
−40
−60
−80
−100
−120
−140
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0

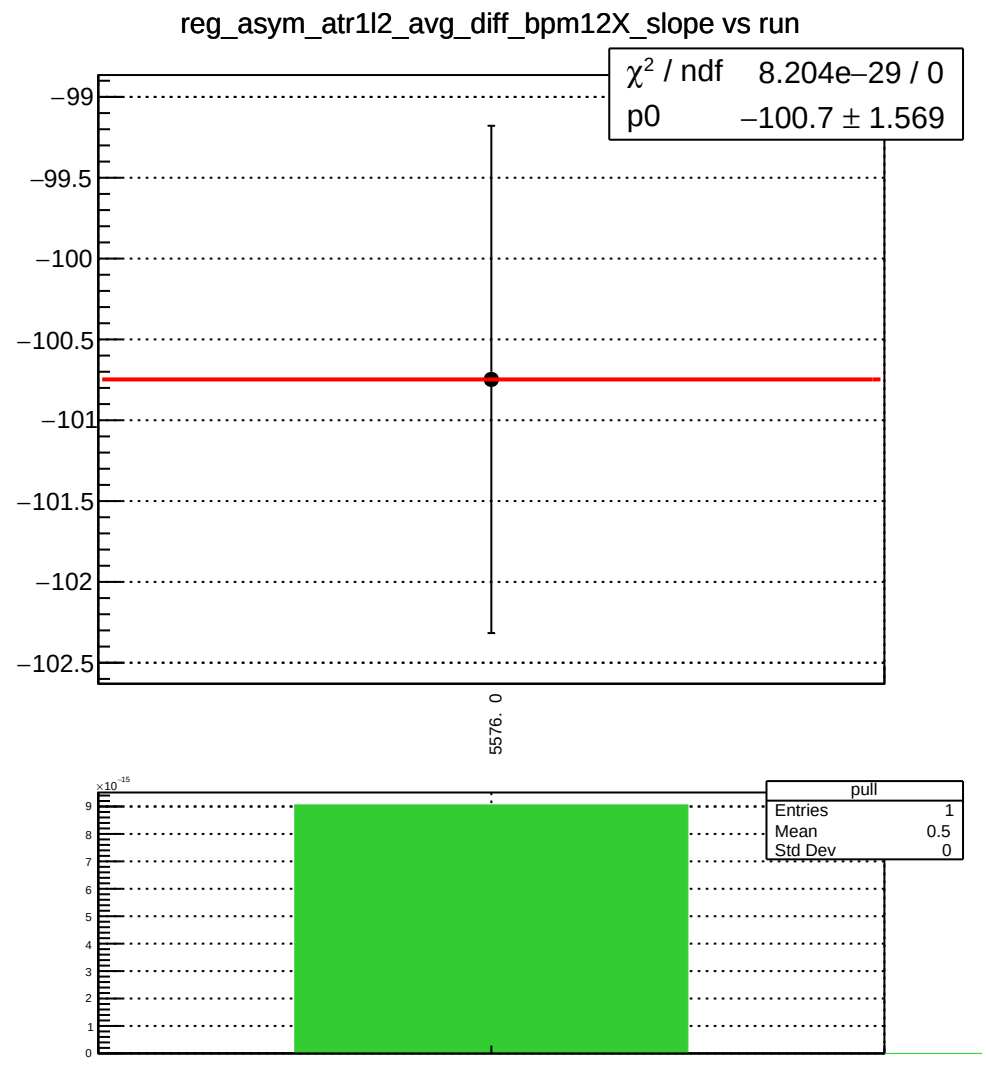

pull1D
Entries 1
Mean 2.922e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

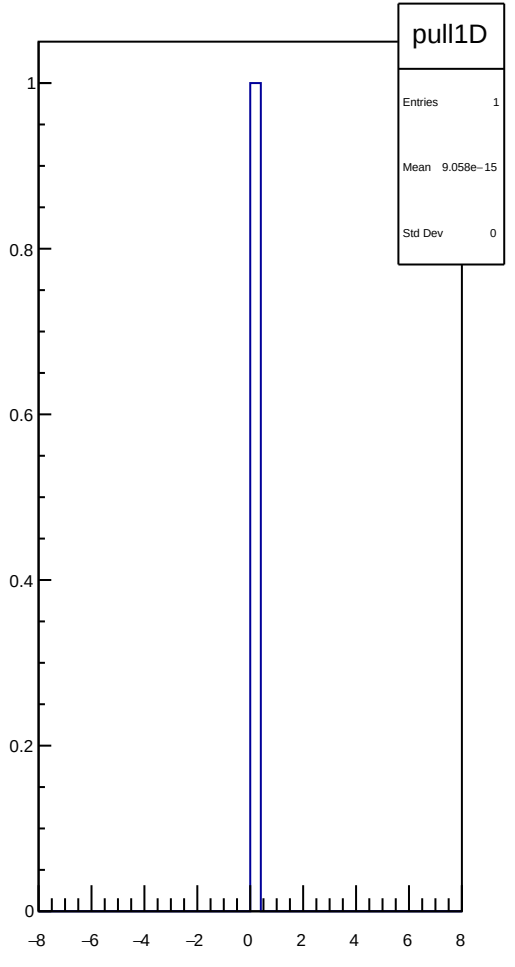

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.938e−32 / 0
p0 22.77 ± 25.52
50
40
30
20
10
0
5576. 0
×10⁻¹⁵
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 1
Mean 0.5
Std Dev 0

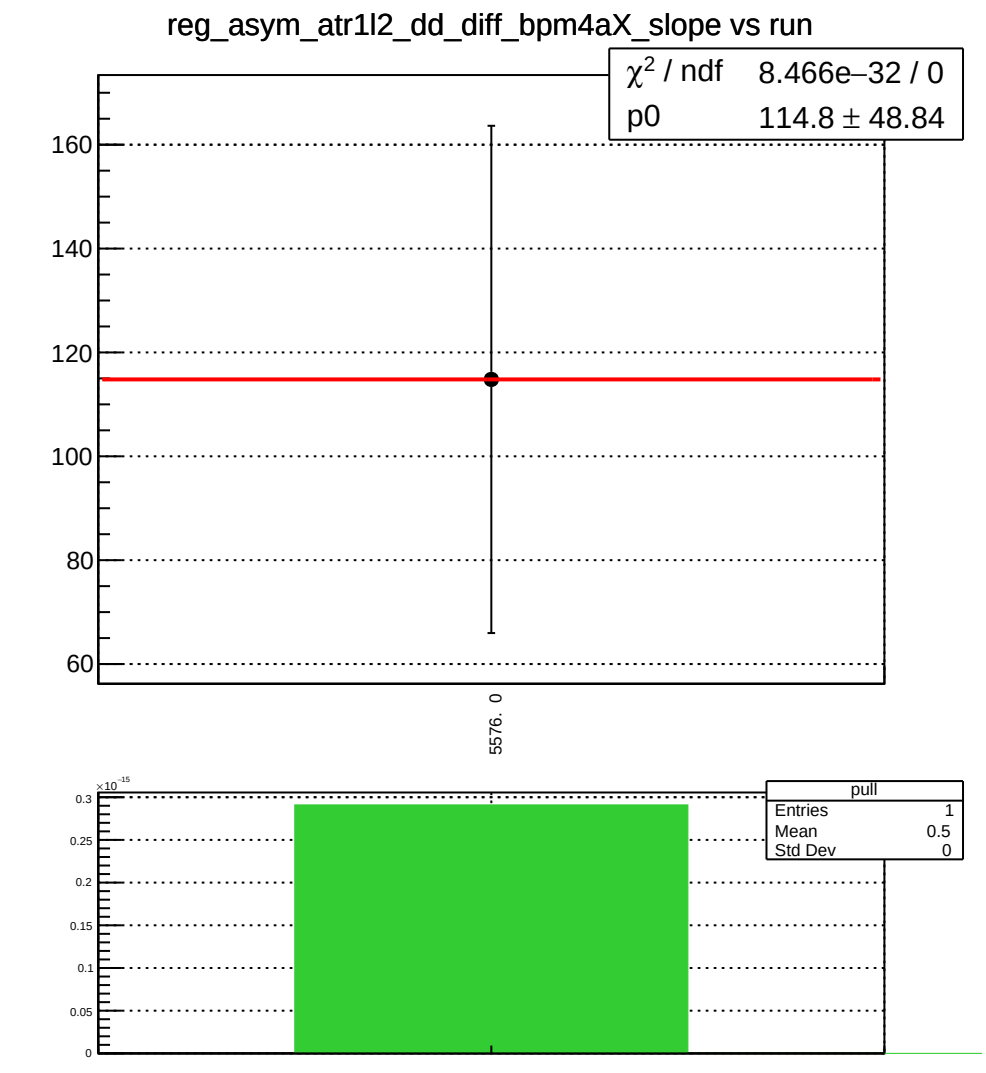

pull1D
Entries 1
Mean 1.392e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

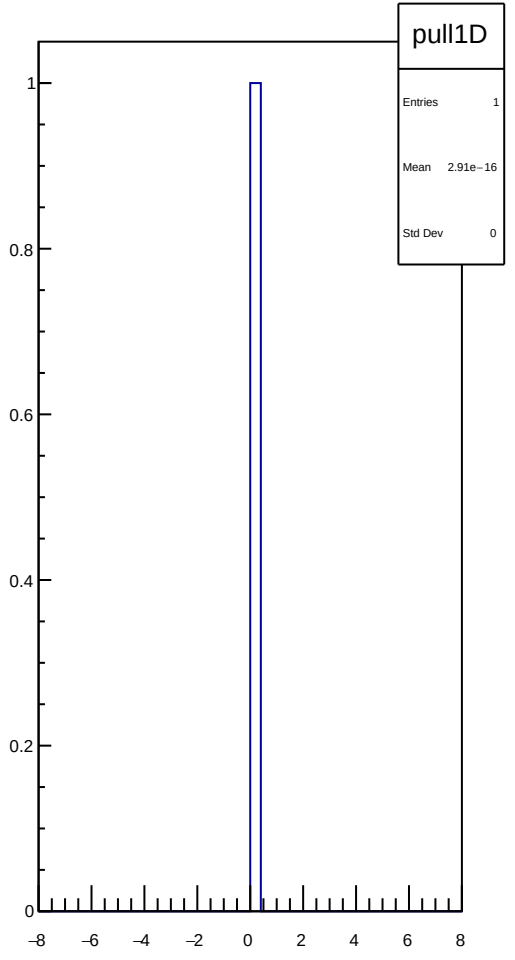

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 51.46 ± 46.28
100
80
60
40
20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

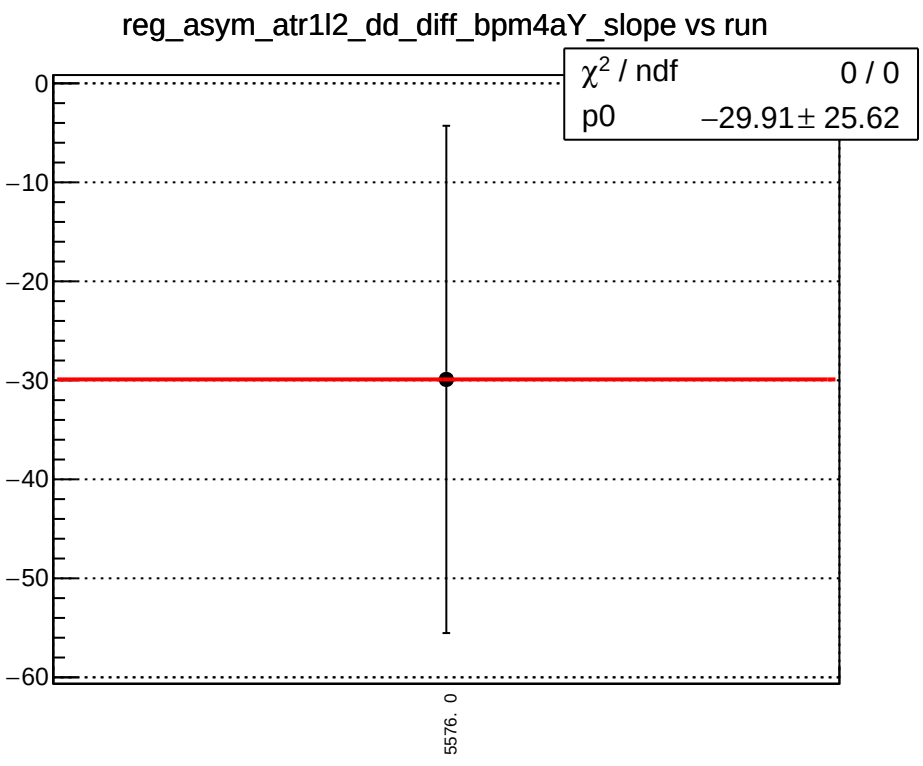

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 15.3 ± 33.99
50
40
30
20
10
0
−10
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

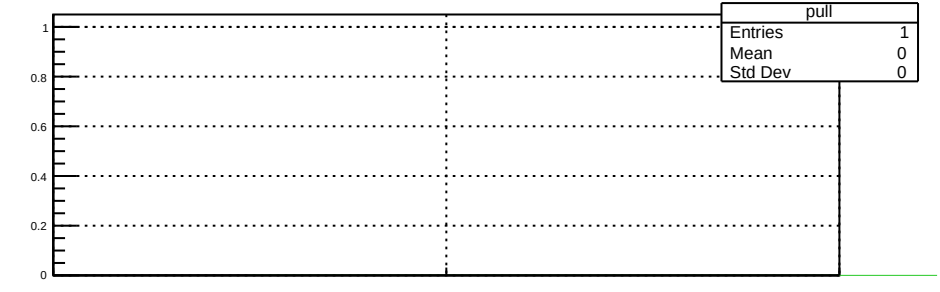

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.204e−29 / 0
p0 −100.7 ± 1.569
−99
−99.5
−100
−100.5
−101
−101.5
−102
−102.5
5576. 0
×10⁻¹⁵
pull
Entries 1
Mean 0.5
Std Dev 0

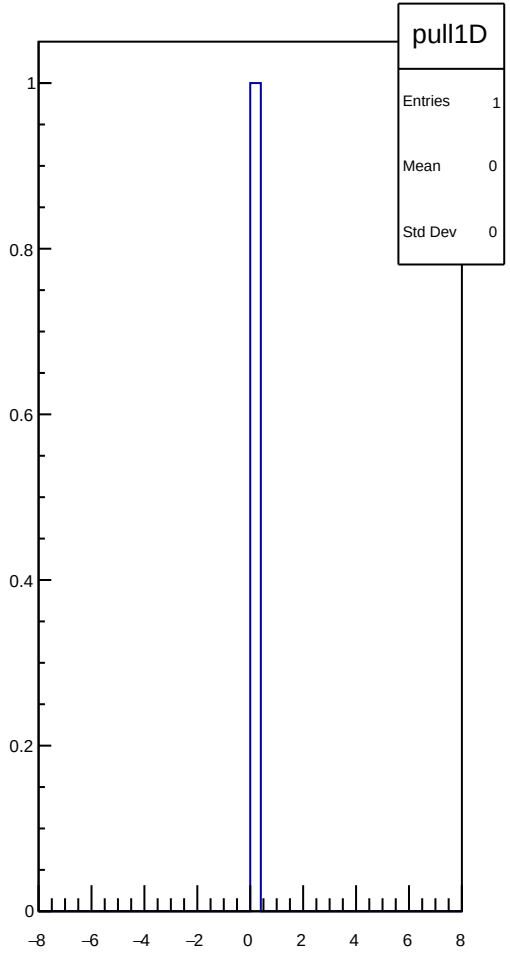

pull1D
Entries 1
Mean 9.058e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

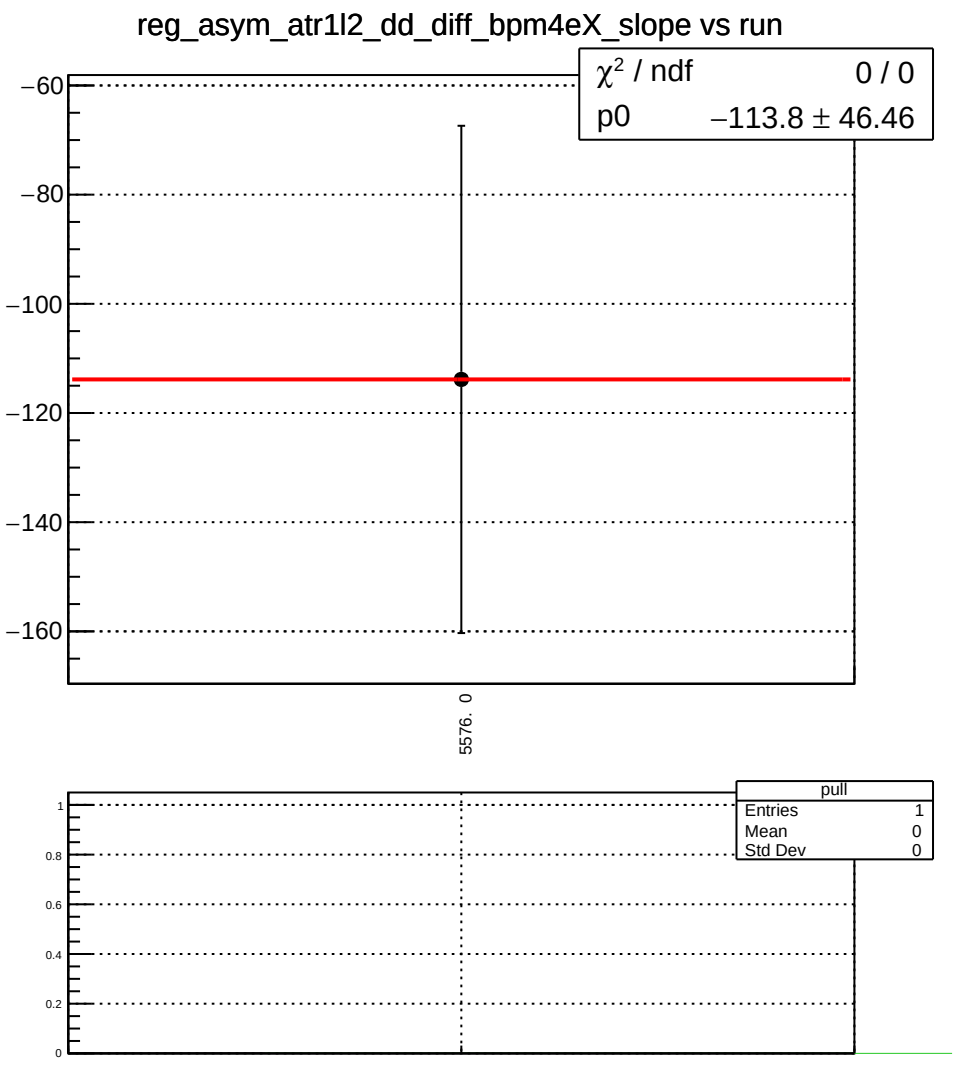

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.466e−32 / 0
p0 114.8 ± 48.84
160
140
120
100
80
60
5576. 0
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0

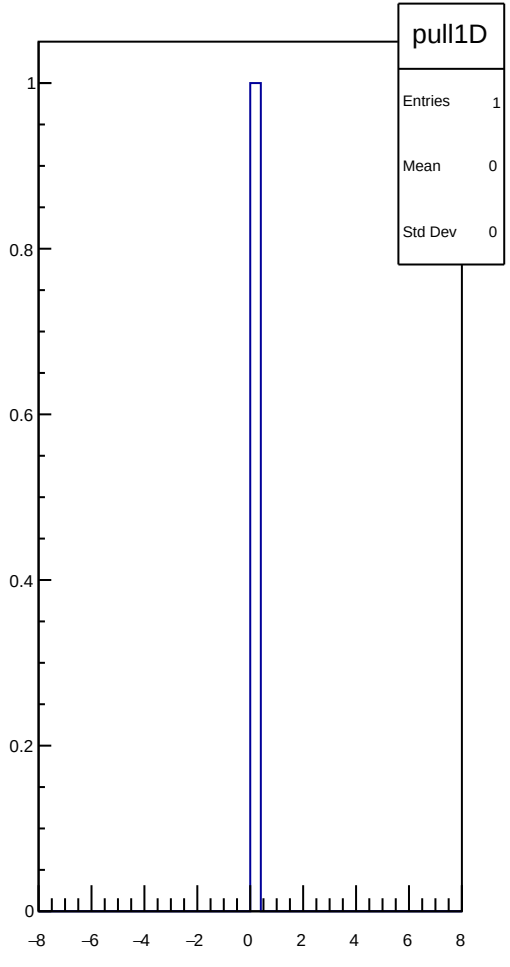

pull1D
Entries 1
Mean 2.91e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

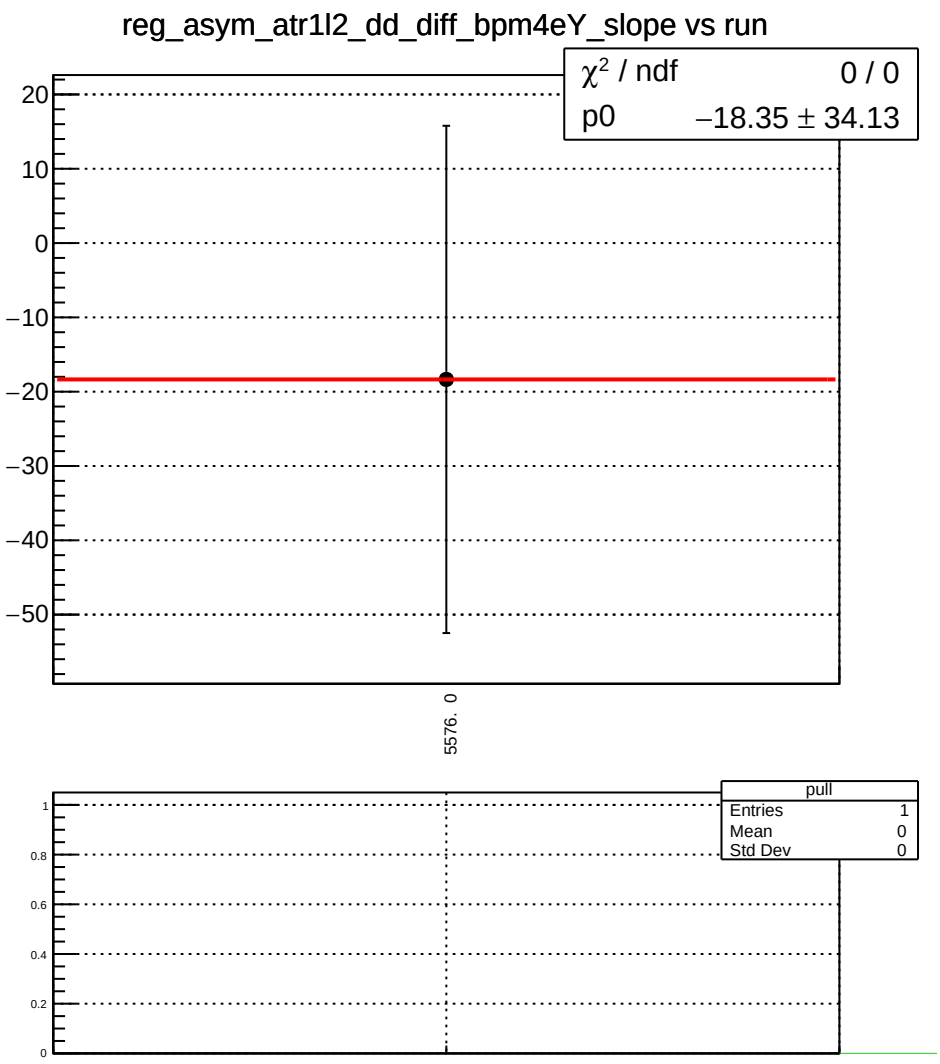

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −29.91 ± 25.62
0
−10
−20
−30
−40
−50
−60
5576. 0

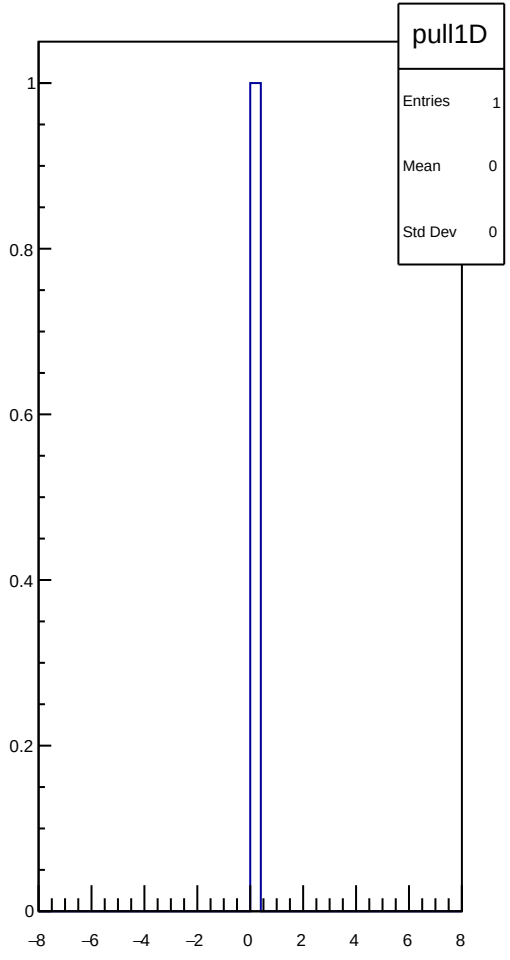

pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

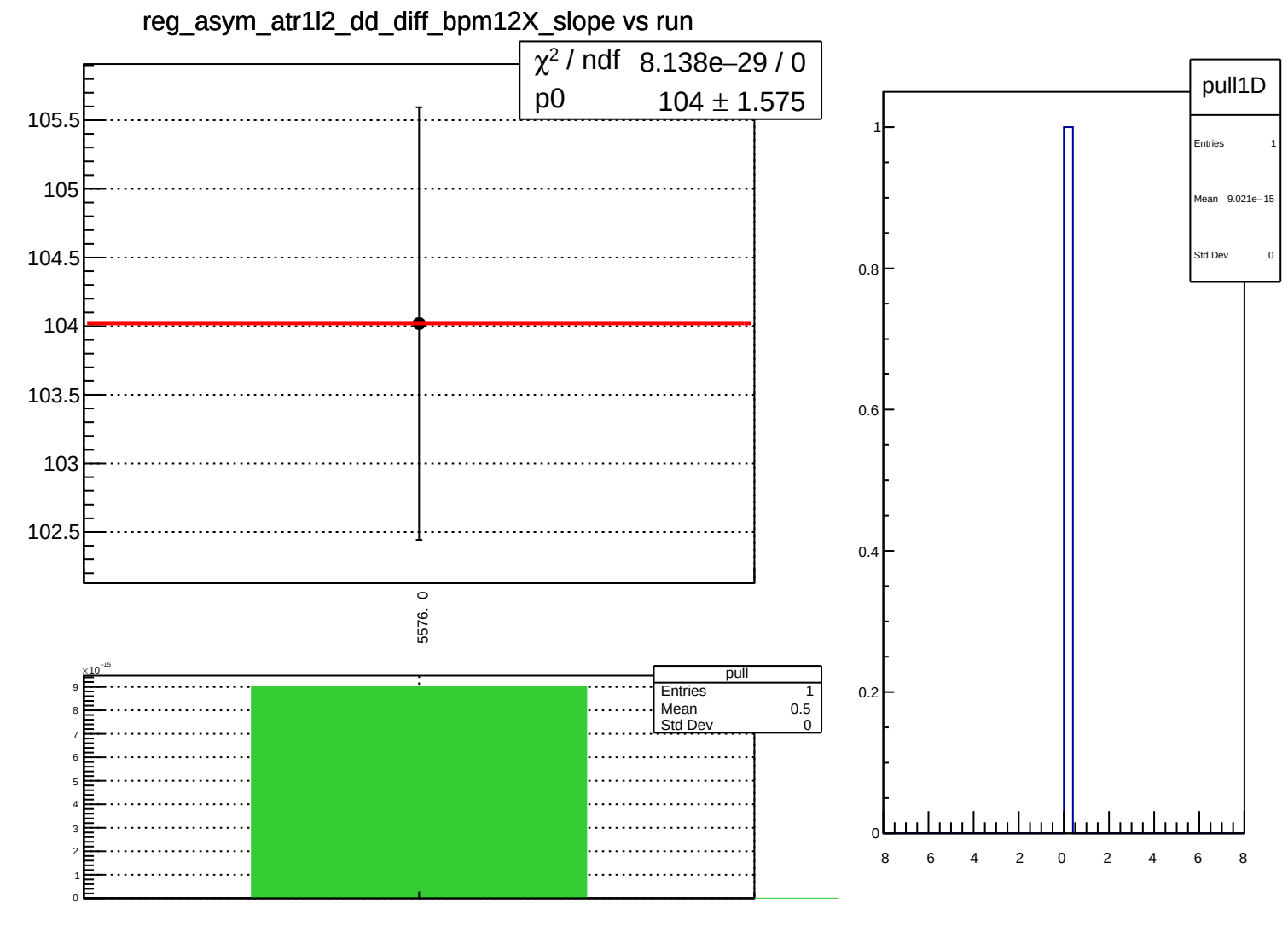

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −113.8 ± 46.46
−60
−80
−100
−120
−140
−160
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −18.35 ± 34.13
20
10
0
−10
−20
−30
−40
−50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.138e−29 / 0
p0 104 ± 1.575
105.5
105
104.5
104
103.5
103
102.5
5576. 0
×10⁻¹⁵
9
8
7
6
5
4
3
2
1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 9.021e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
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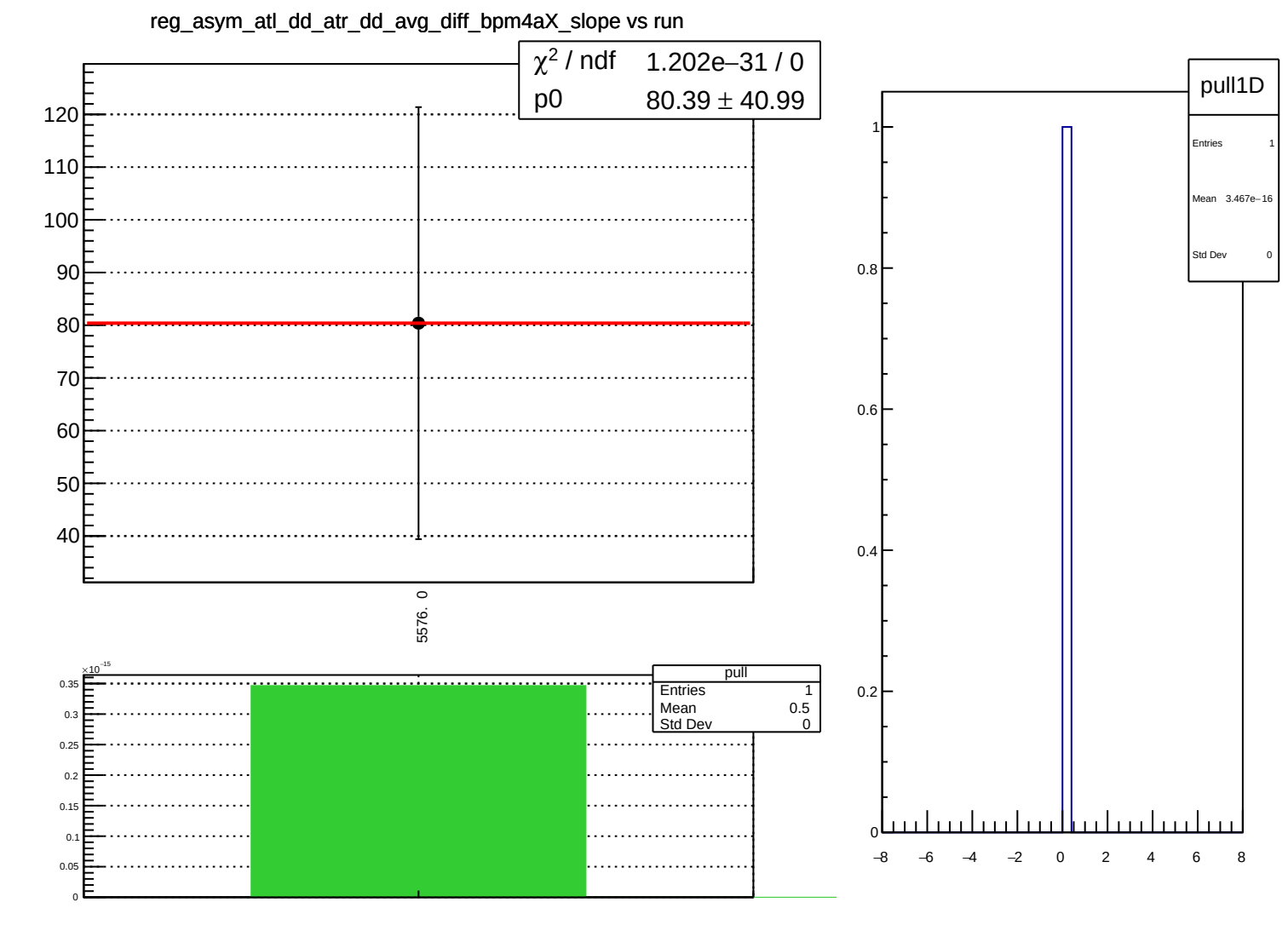
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.202e−31 / 0
p0 80.39 ± 40.99
120
110
100
90
80
70
60
50
40
5576. 0
×10⁻¹⁵
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 3.467e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
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2
4
6
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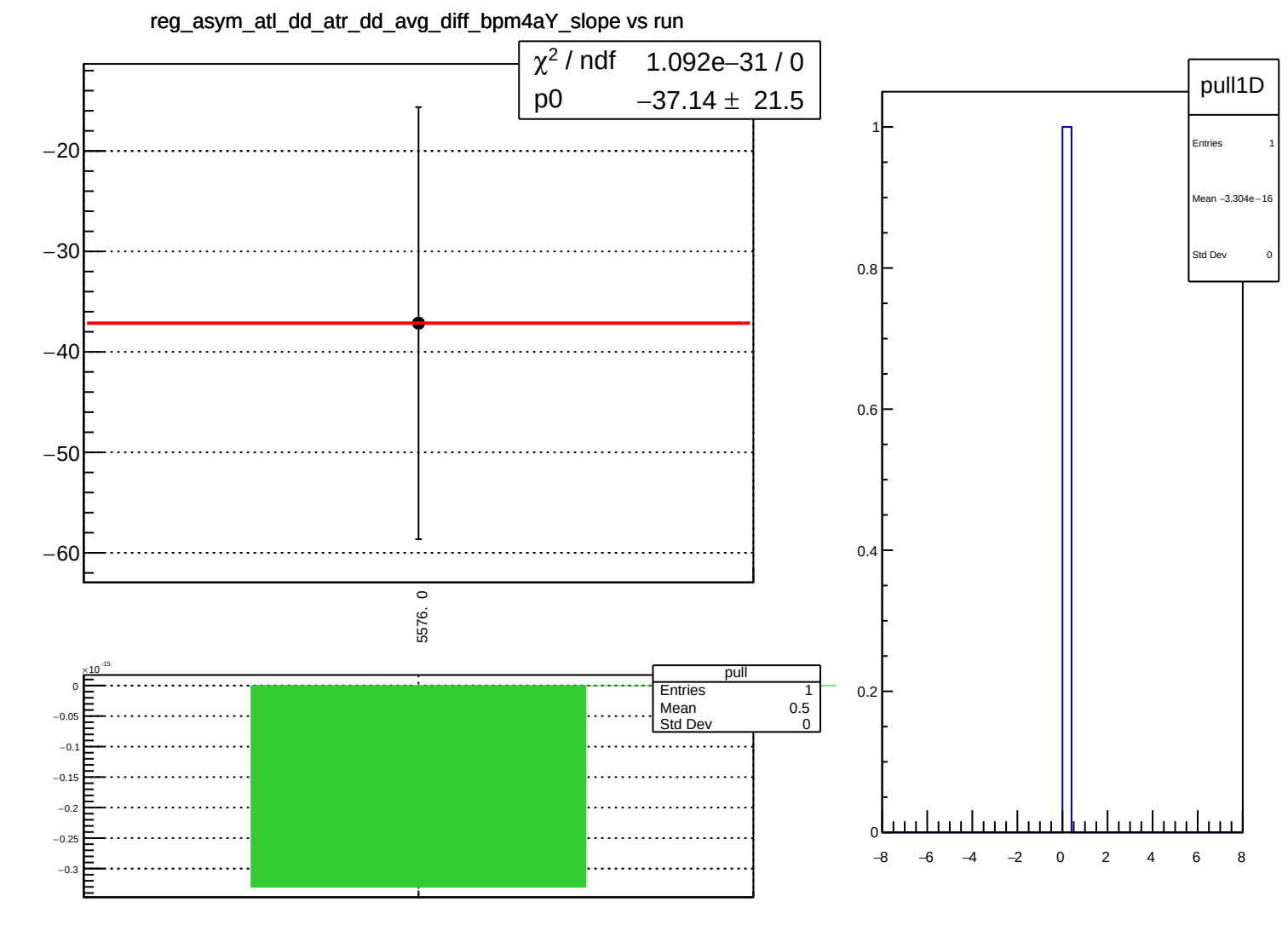
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.092e−31 / 0
p0 −37.14 ± 21.5
−20
−30
−40
−50
−60
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −3.304e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
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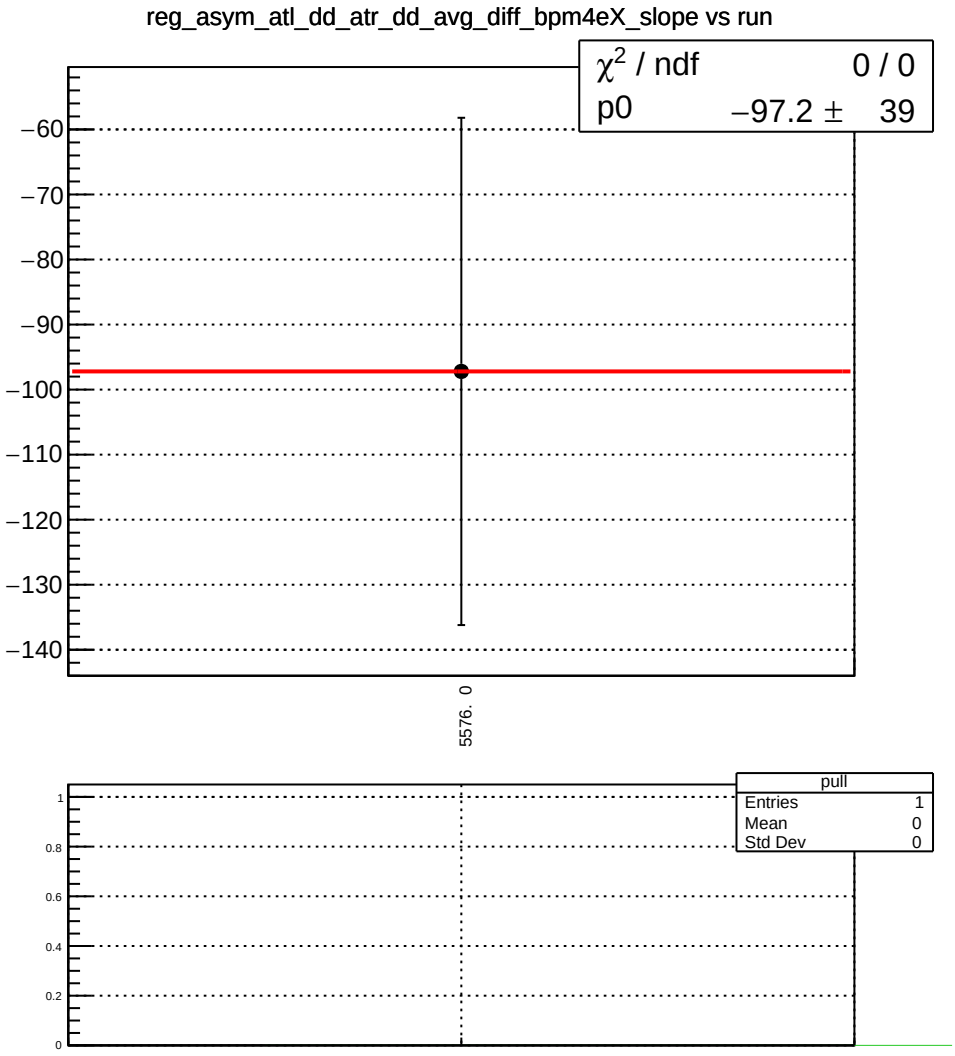
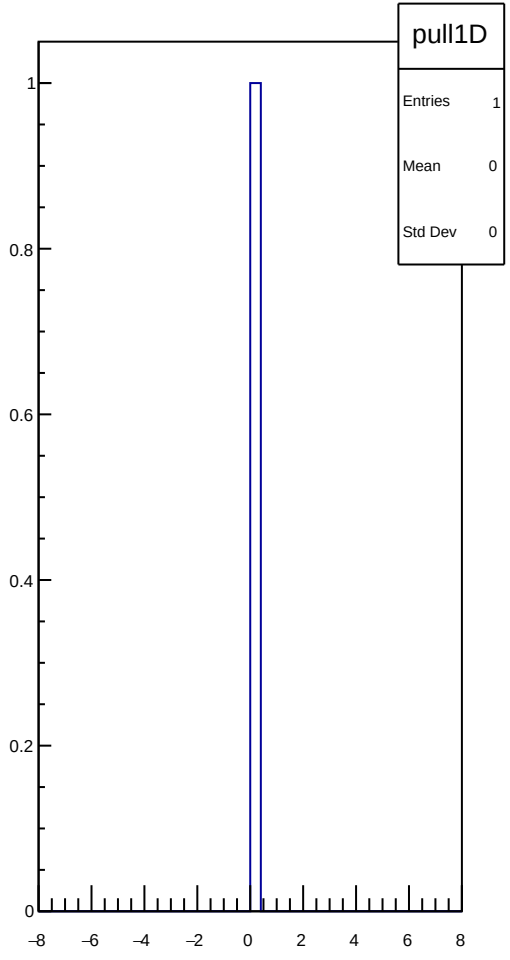
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −97.2 ± 39
−60
−70
−80
−90
−100
−110
−120
−130
−140
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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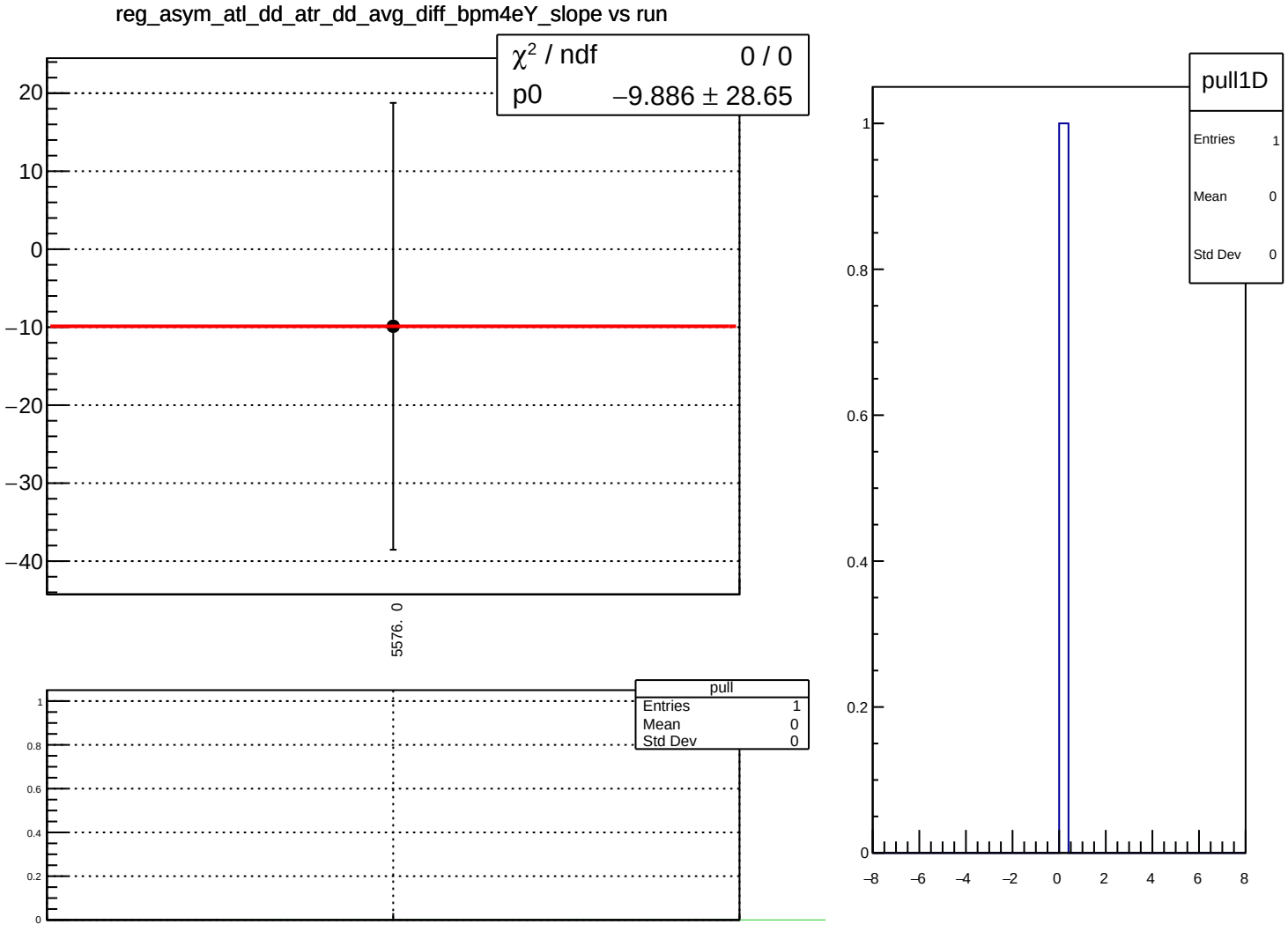
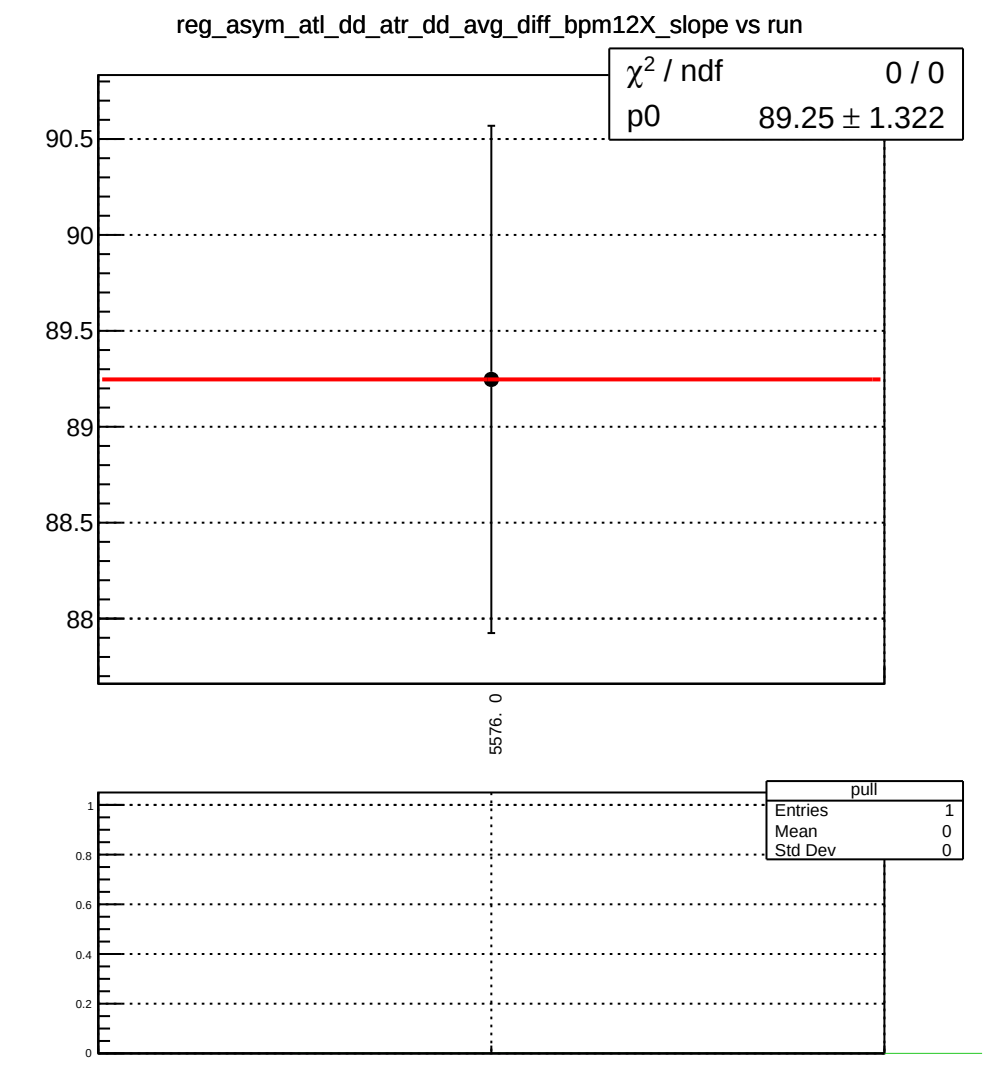
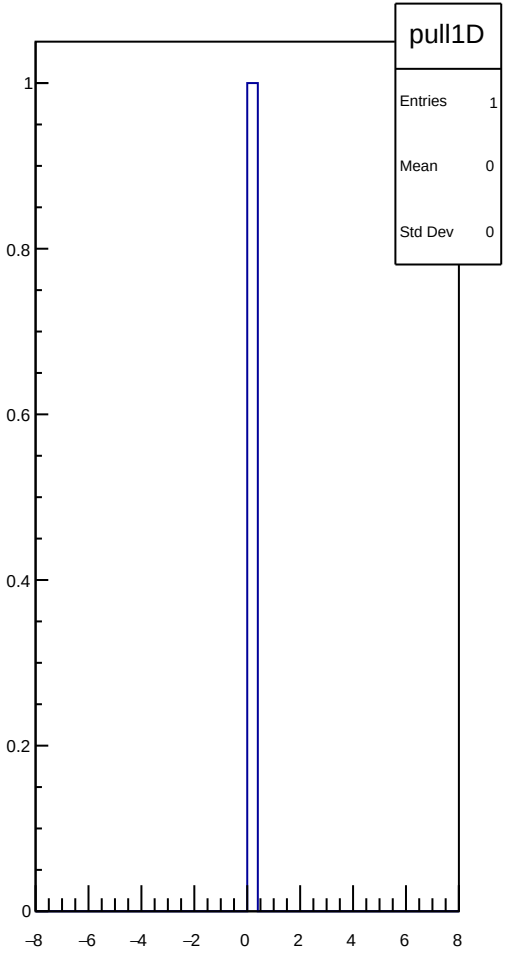
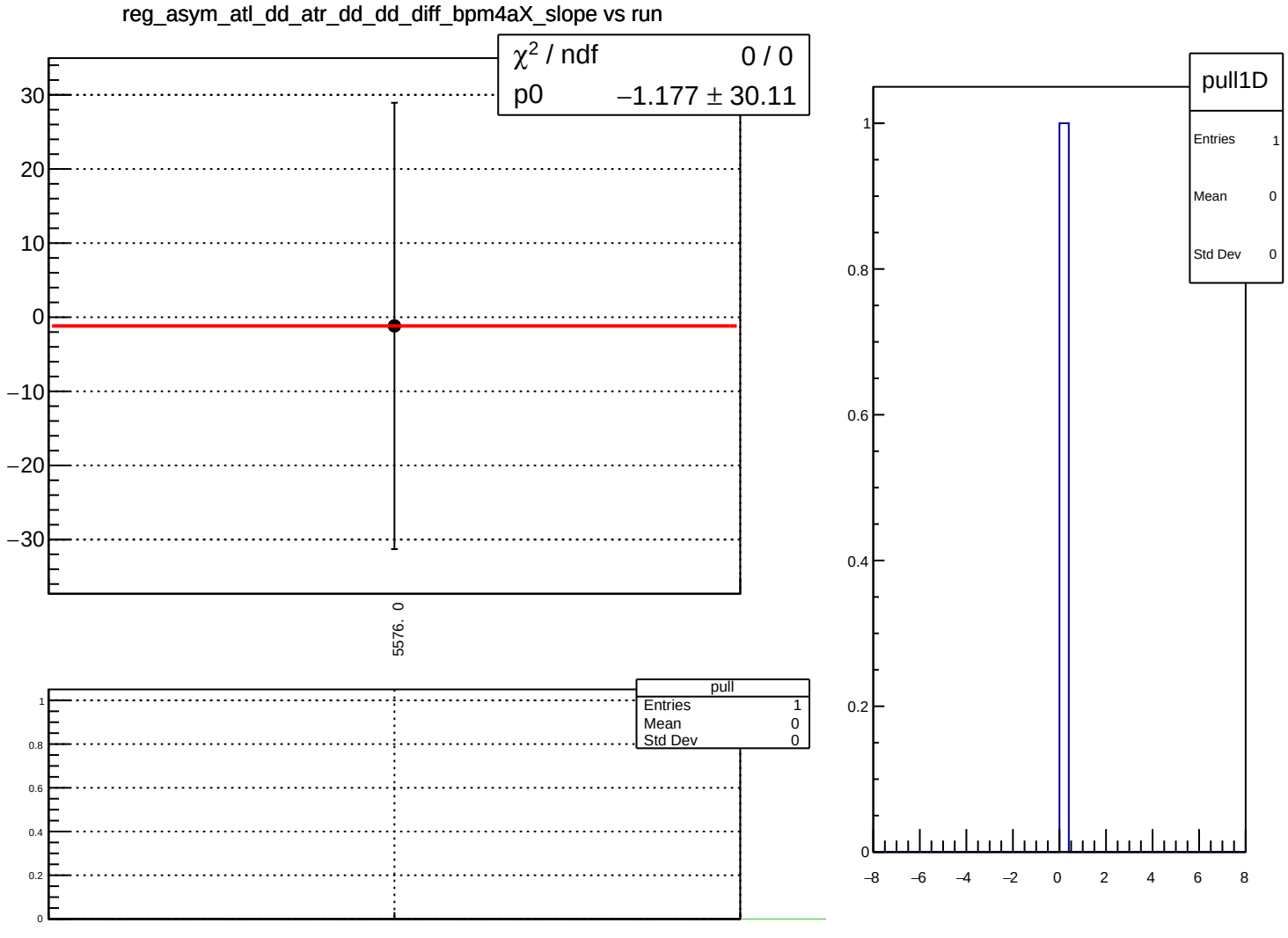
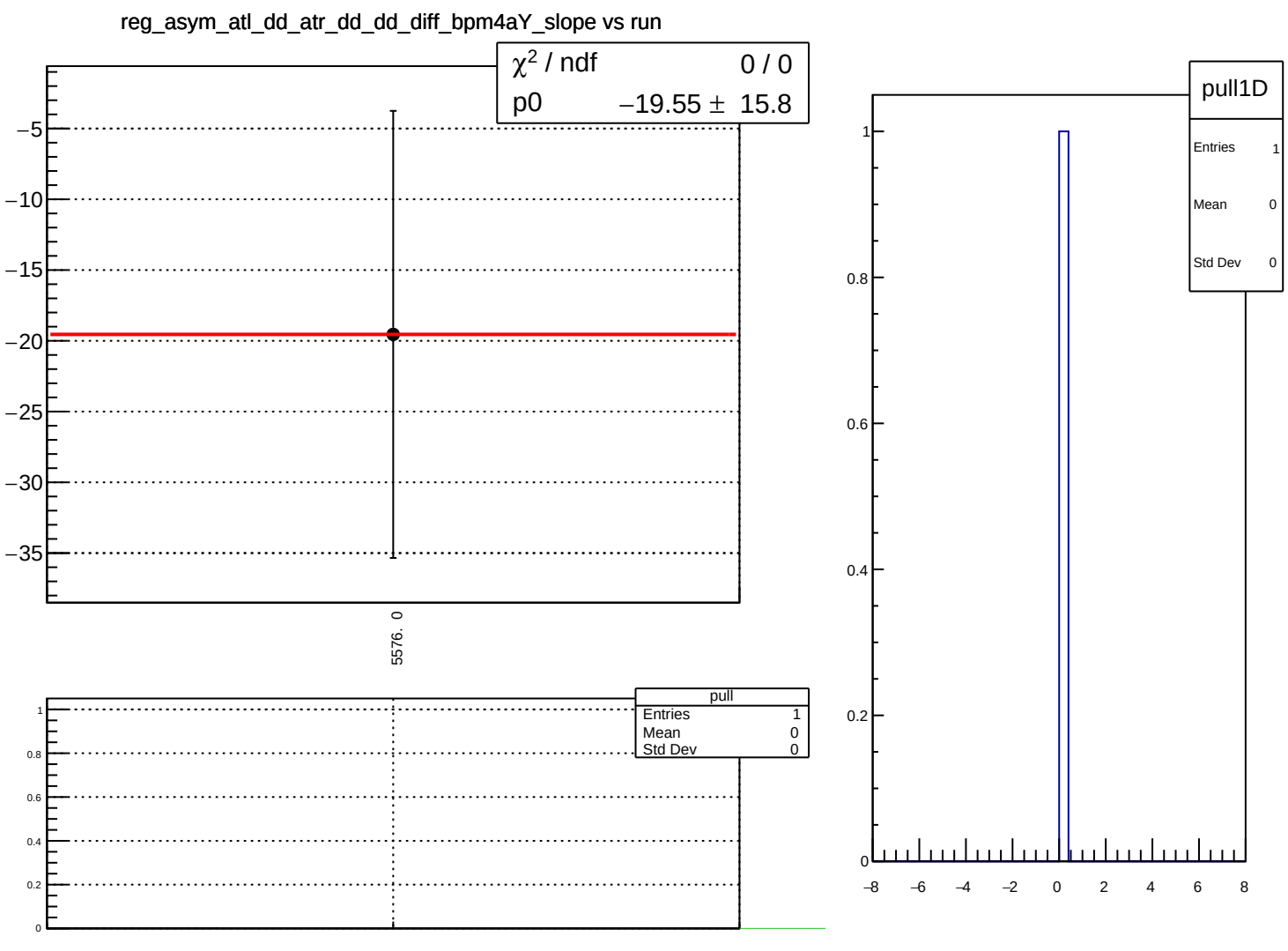
0
2
4
6
8

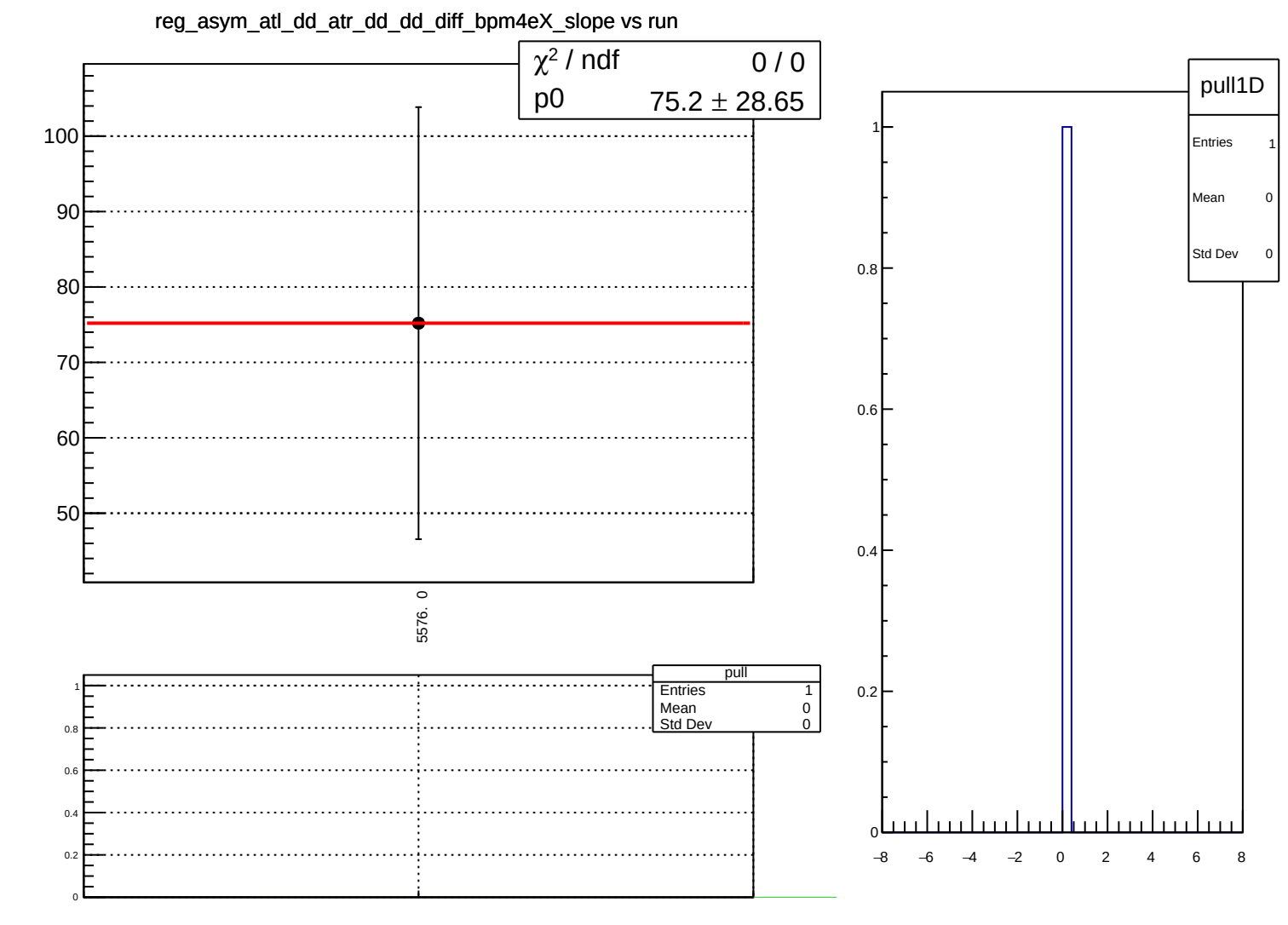

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 −9.886 ± 28.65
20
10
0
−10
−20
−30
−40
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

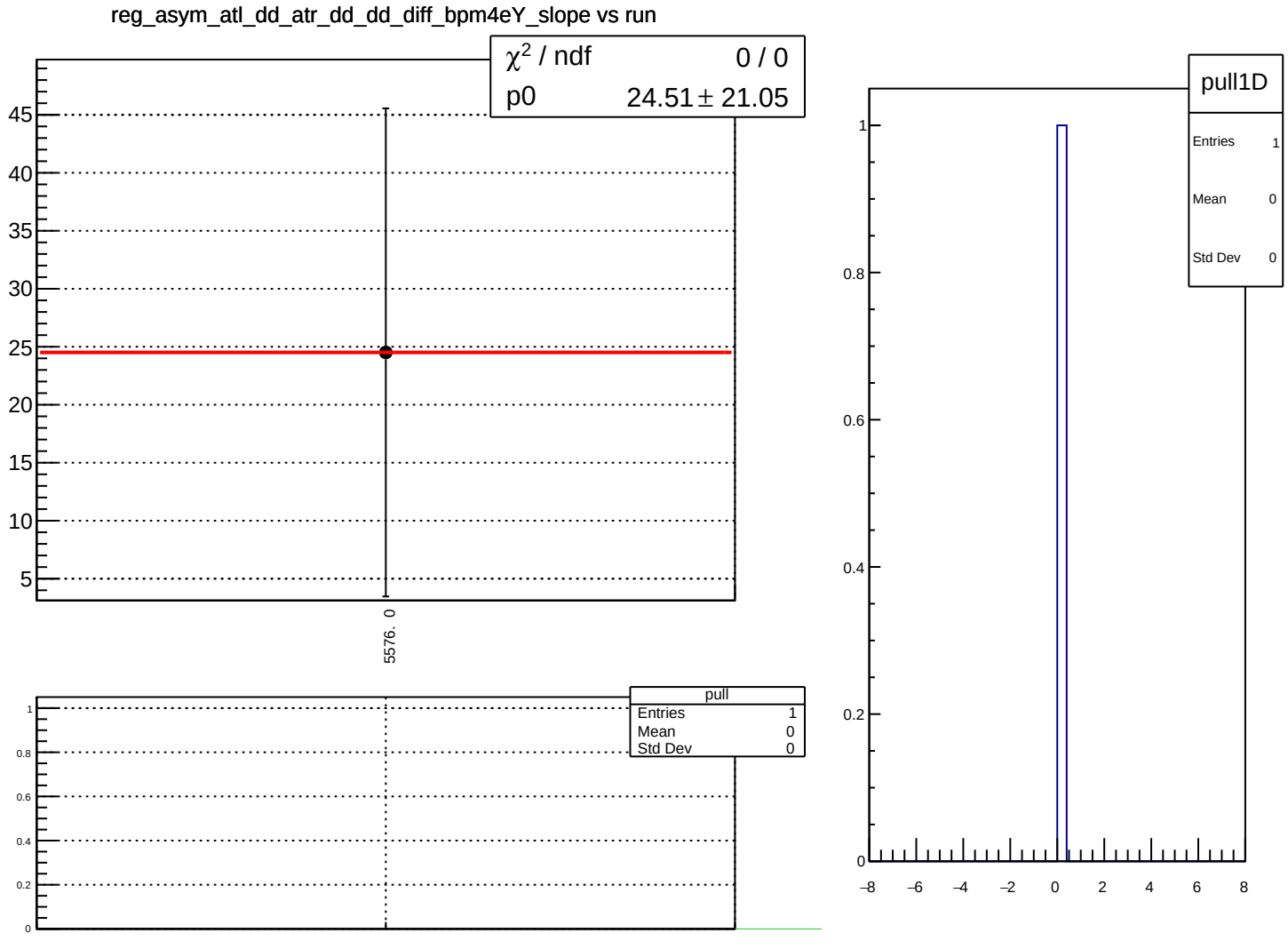

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 89.25 ± 1.322
90.5
90
89.5
89
88.5
88
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

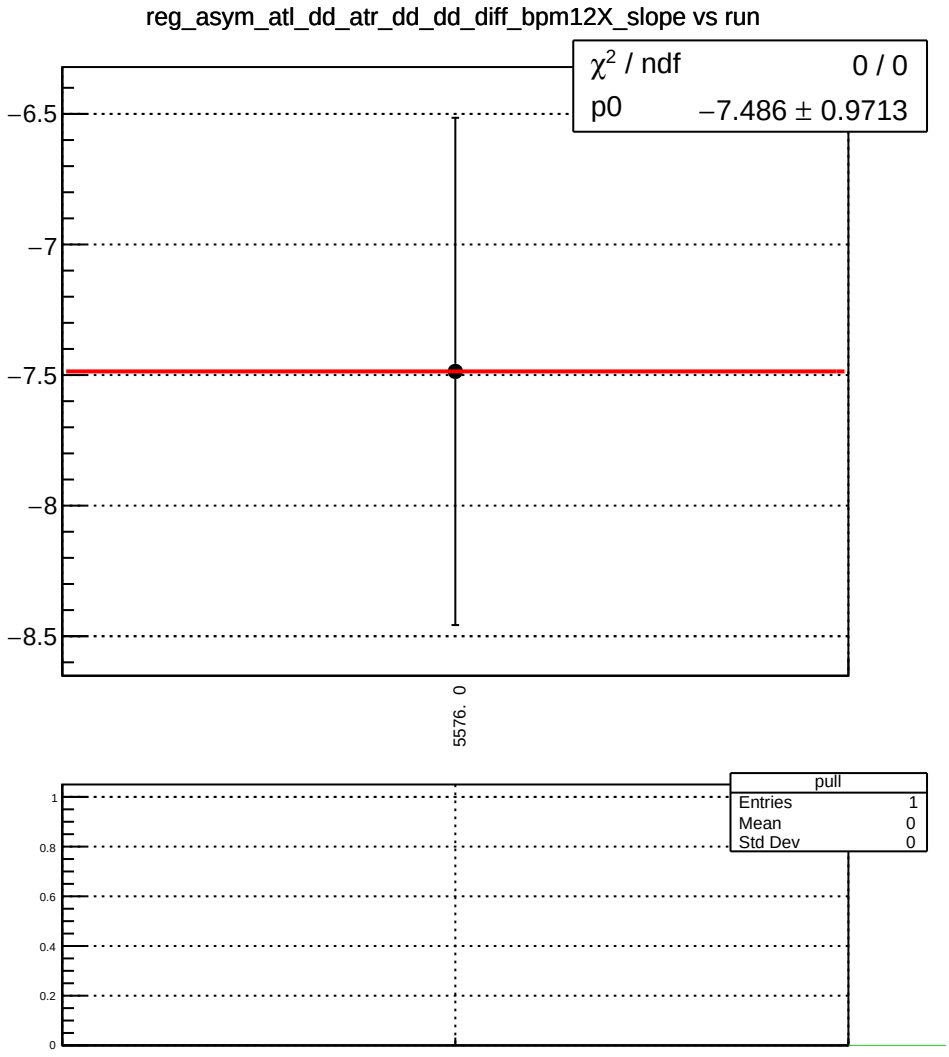

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

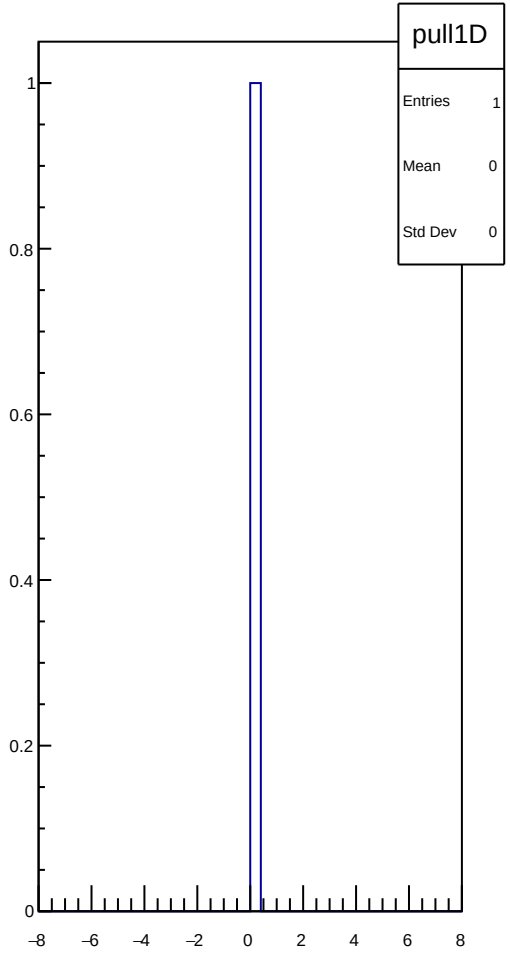

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −1.177 ± 30.11
30
20
10
0
−10
−20
−30
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

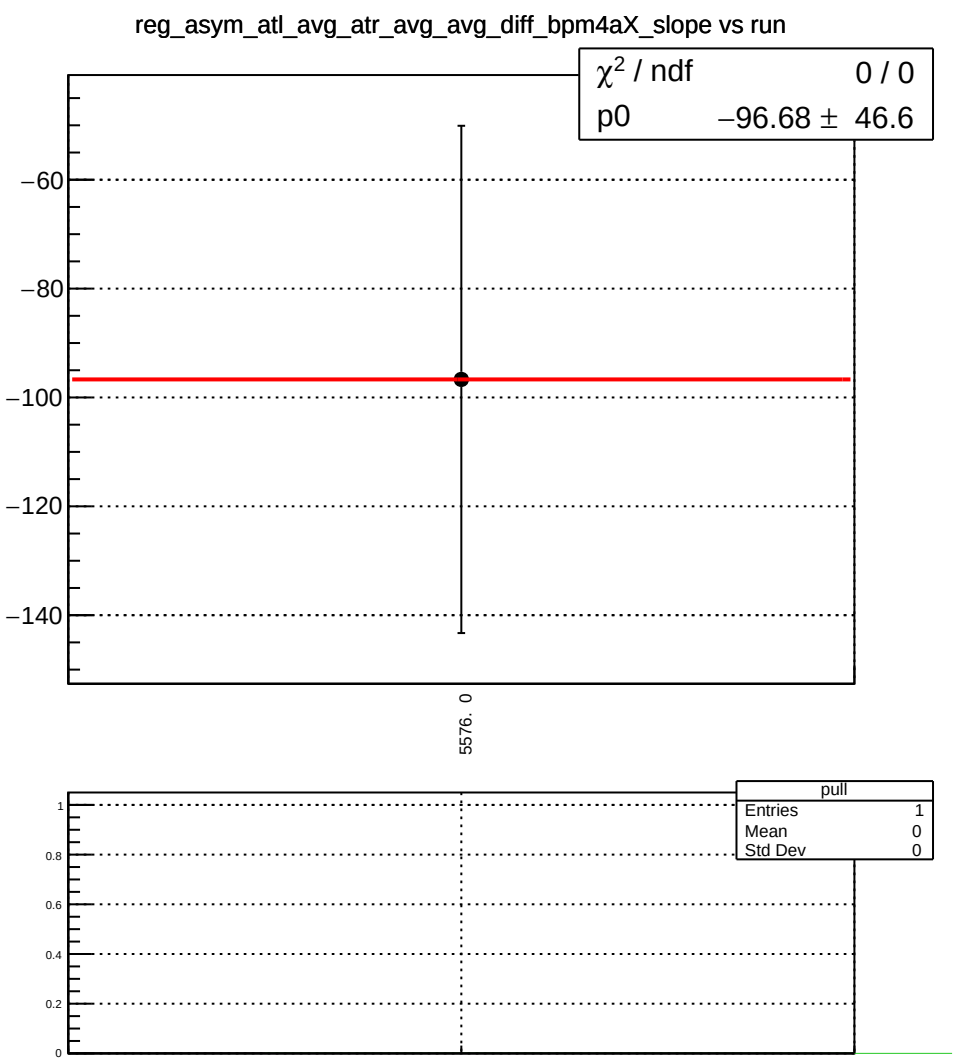

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −19.55 ± 15.8
−5
−10
−15
−20
−25
−30
−35
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

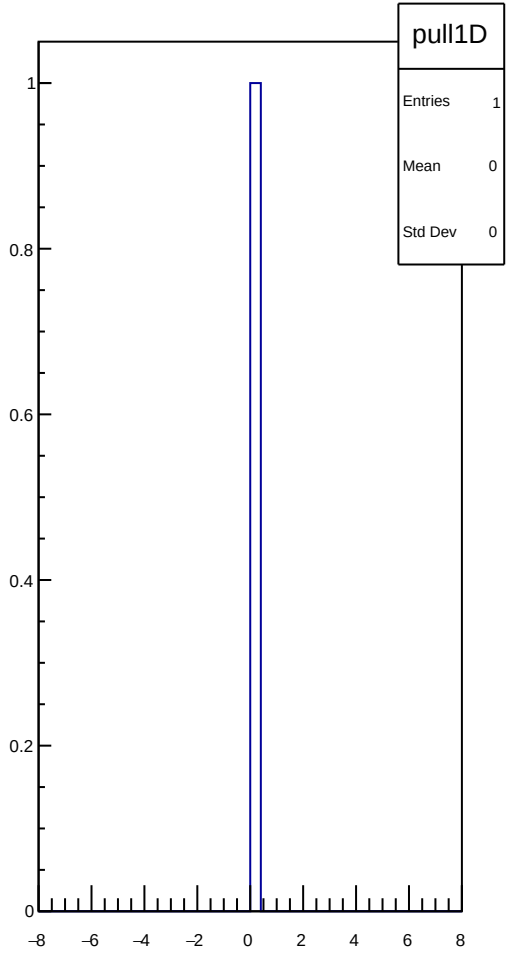

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 75.2 ± 28.65
100
90
80
70
60
50
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

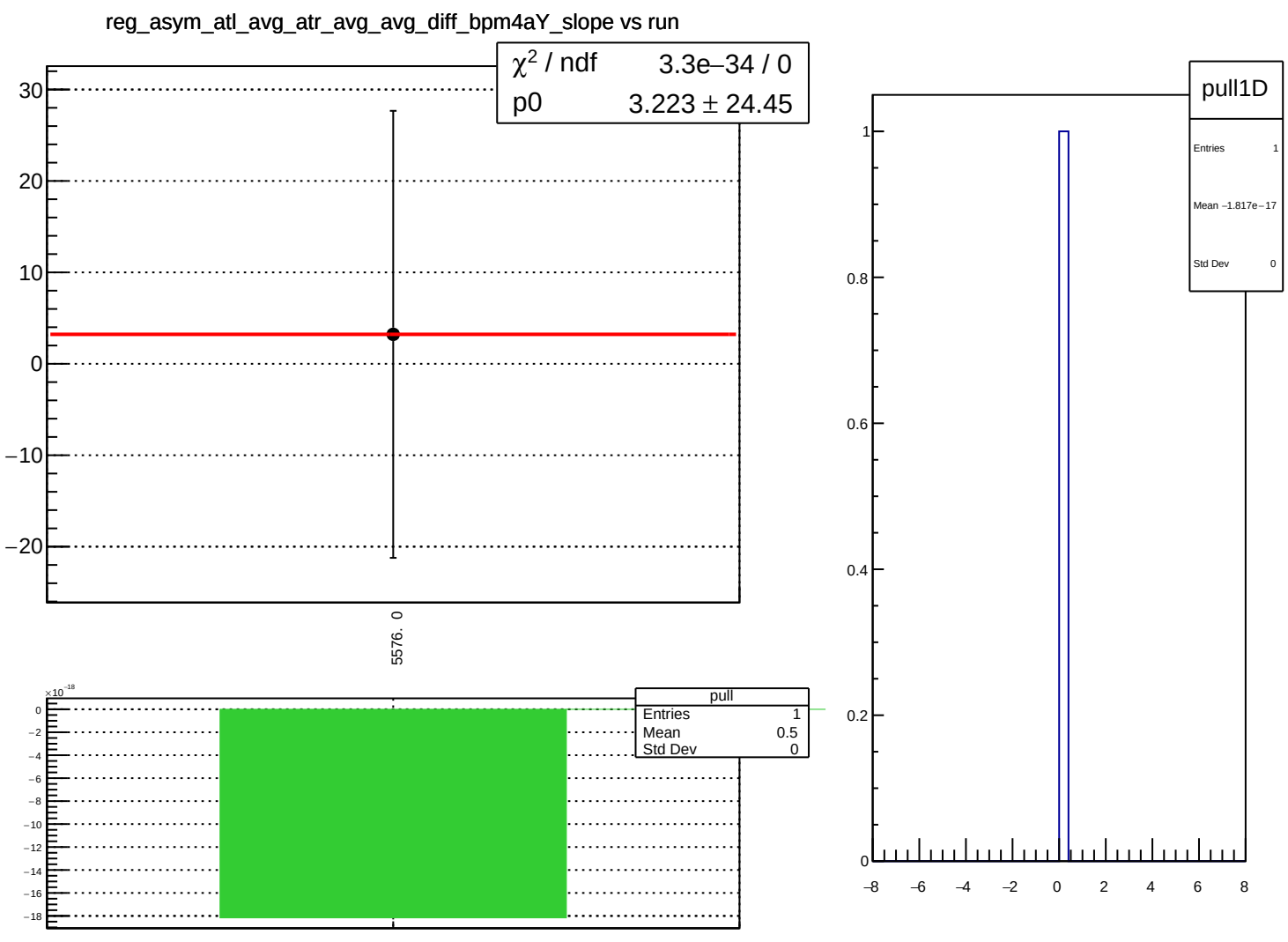

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ2 / ndf 0 / 0
p0 24.51 ± 21.05
45
40
35
30
25
20
15
10
5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

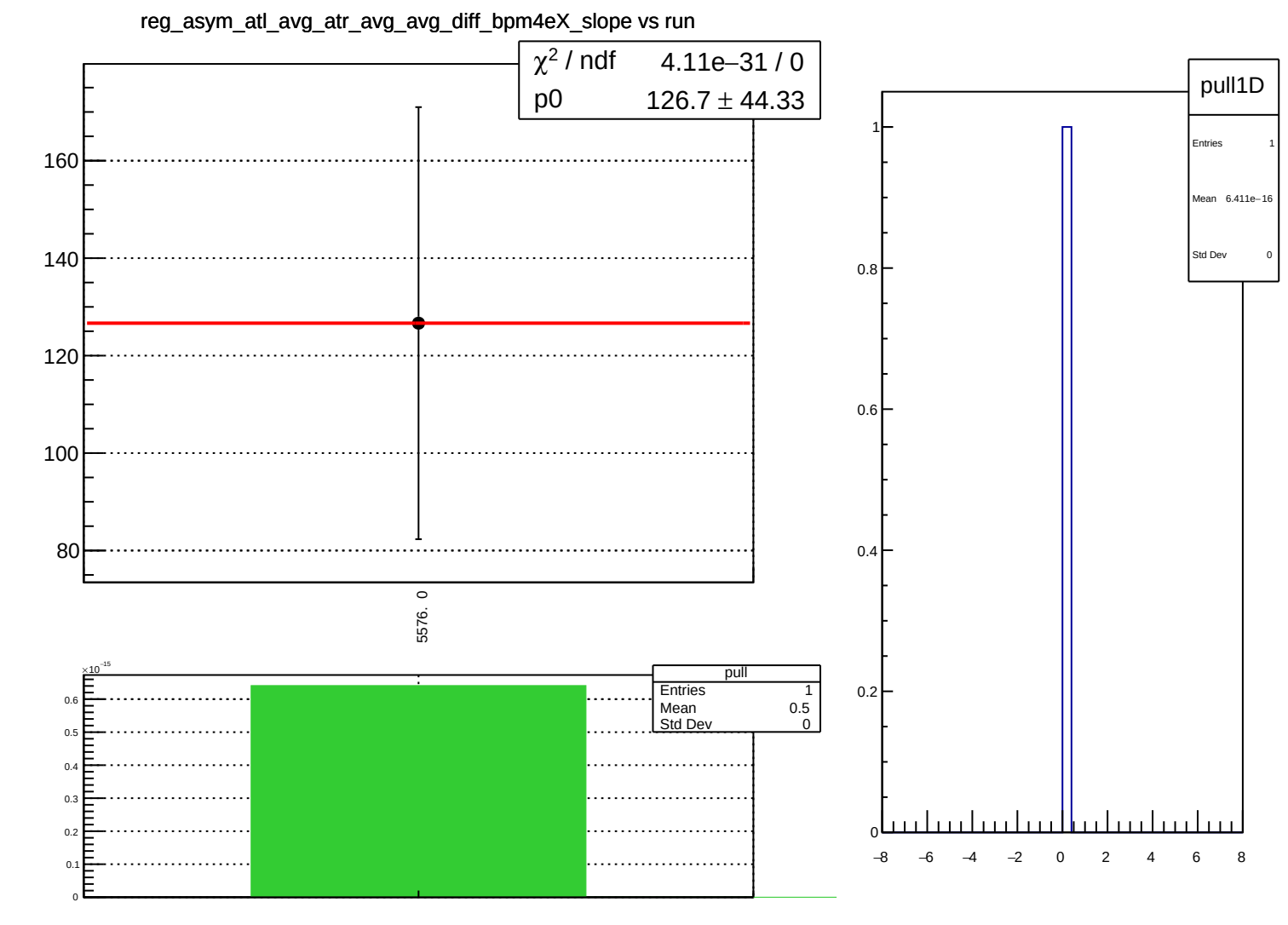

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −7.486 ± 0.9713
−6.5
−7
−7.5
−8
−8.5
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

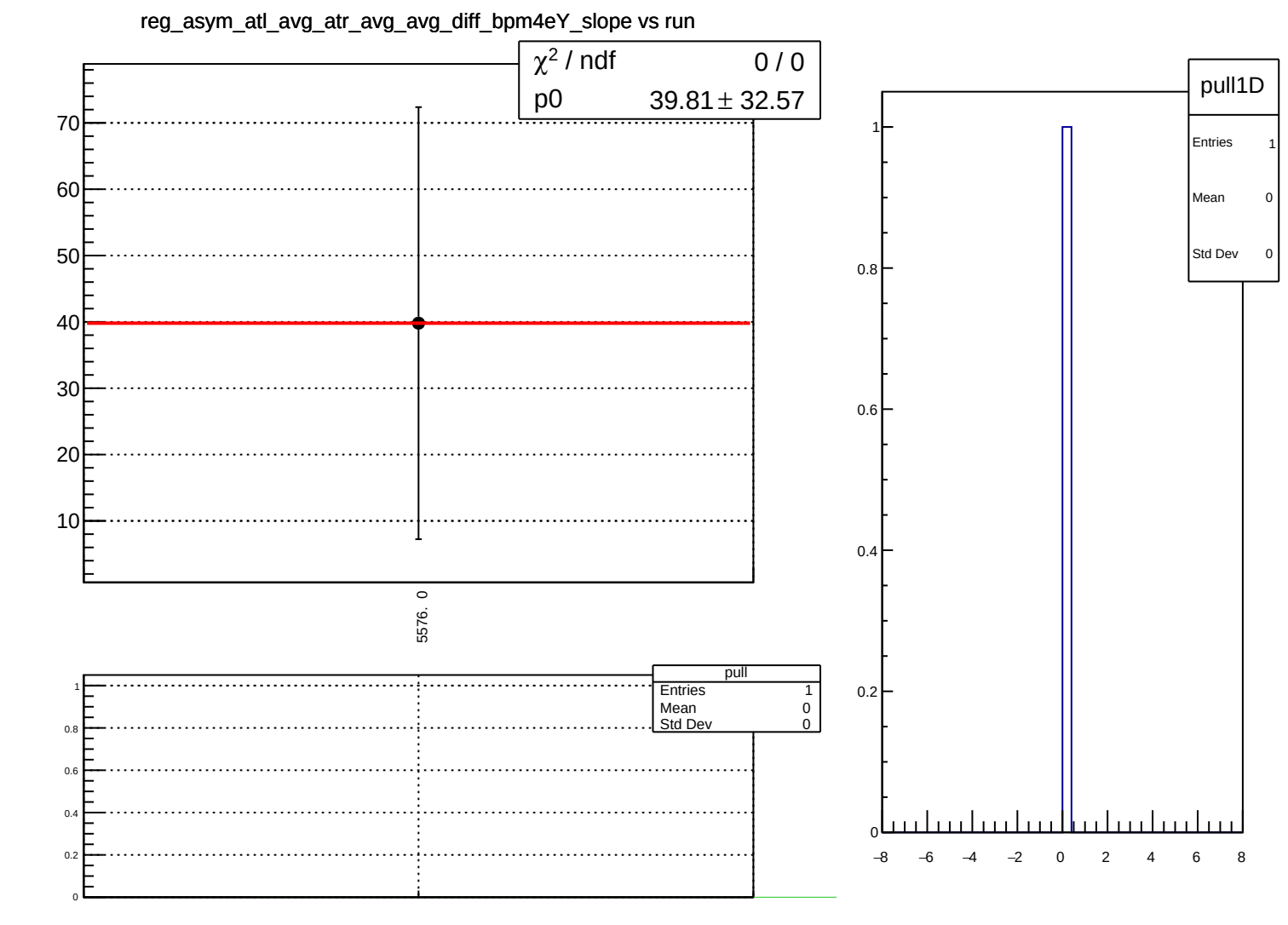

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

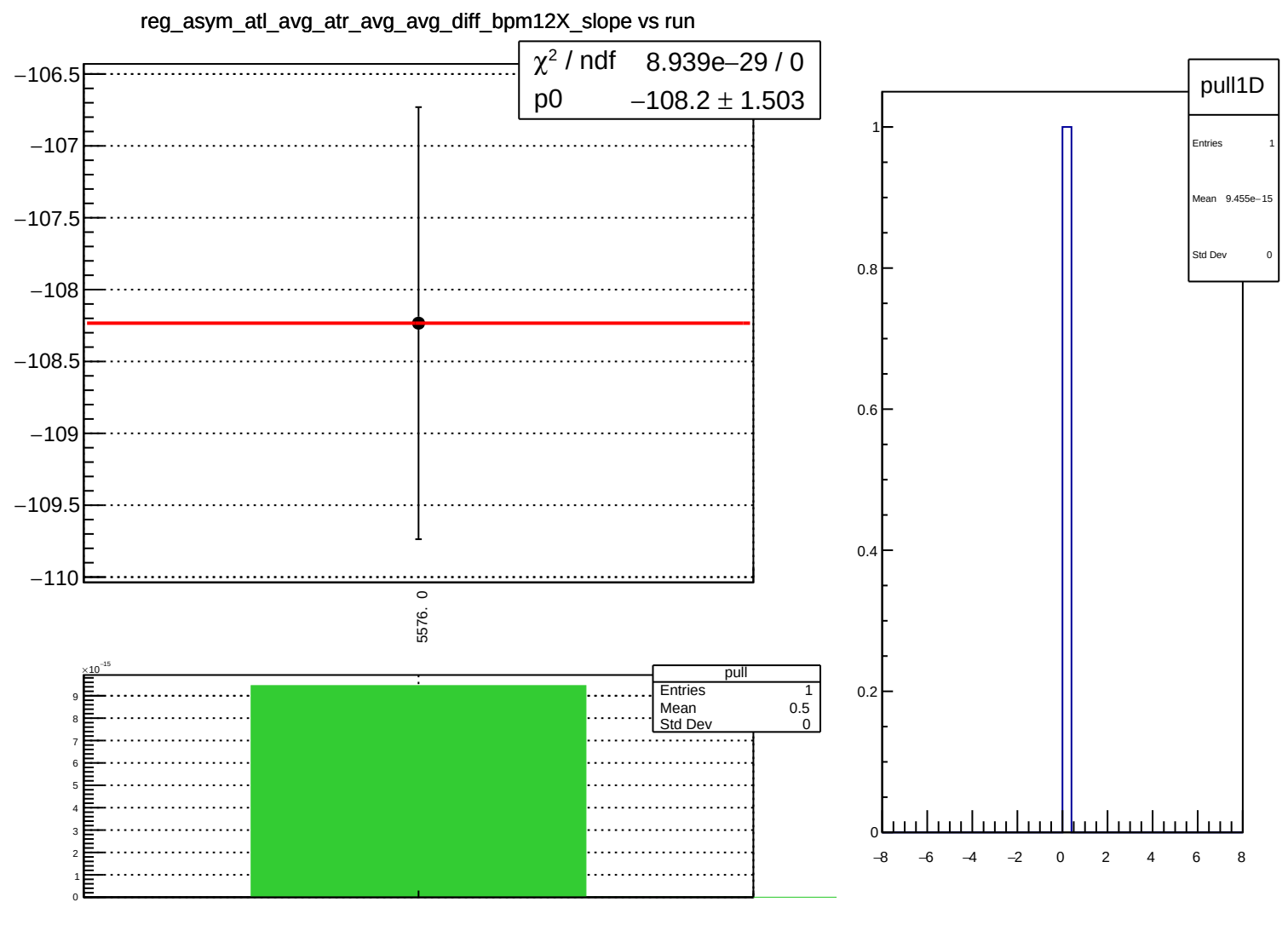

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −96.68 ± 46.6
−60
−80
−100
−120
−140
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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


reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.3e−34 / 0
p0 3.223 ± 24.45
30
20
10
0
−10
−20
5576. 0
×10⁻¹⁸
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.817e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.11e−31 / 0
p0 126.7 ± 44.33
160
140
120
100
80
5576. 0
×10⁻¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 6.411e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 39.81 ± 32.57
70
60
50
40
30
20
10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 8.939e−29 / 0
p0 −108.2 ± 1.503
−106.5
−107
−107.5
−108
−108.5
−109
−109.5
−110
5576. 0
×10⁻¹⁵
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 9.455e−15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
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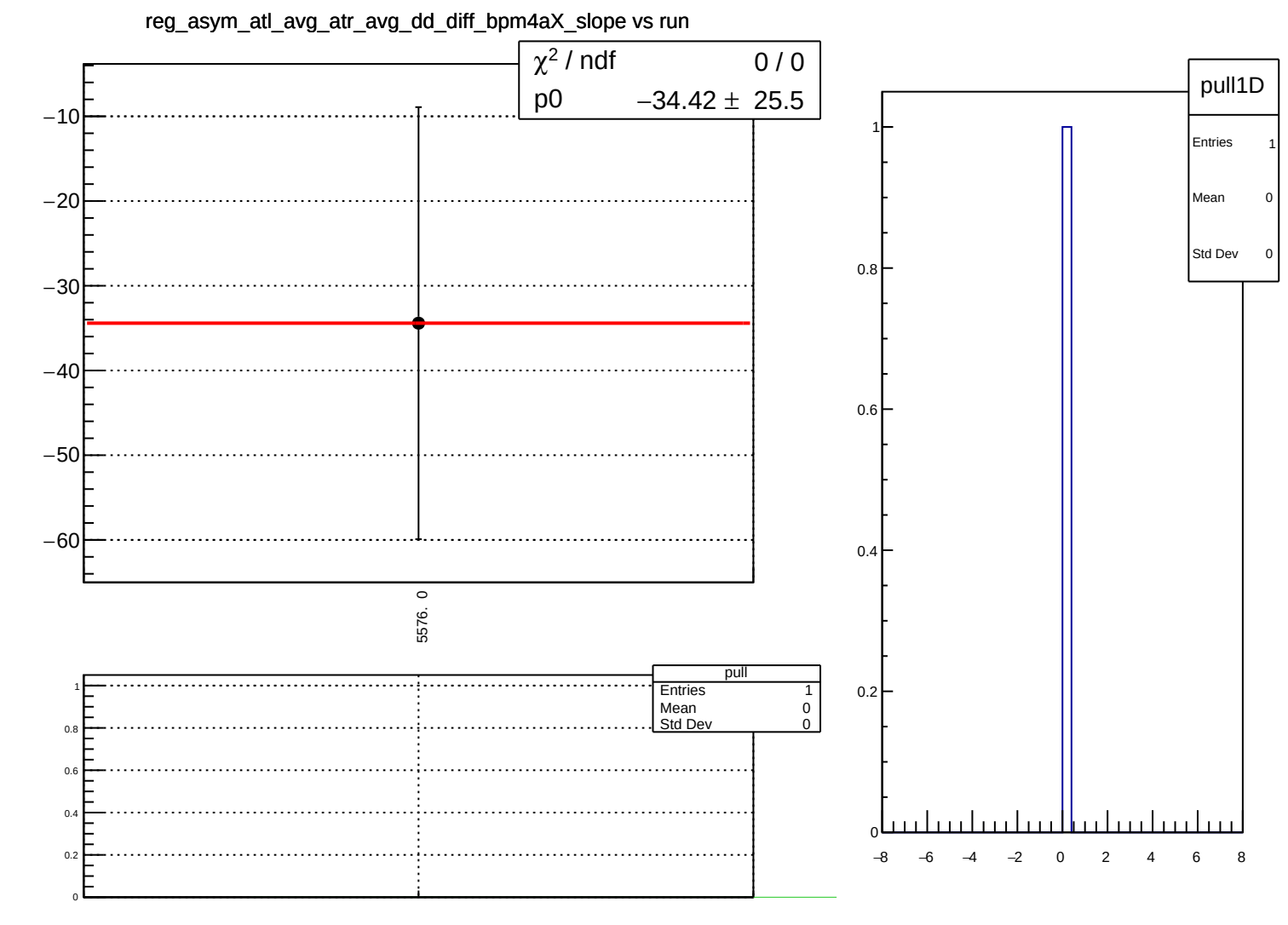
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 −34.42 ± 25.5
−10
−20
−30
−40
−50
−60
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
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−6
−4
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2
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6
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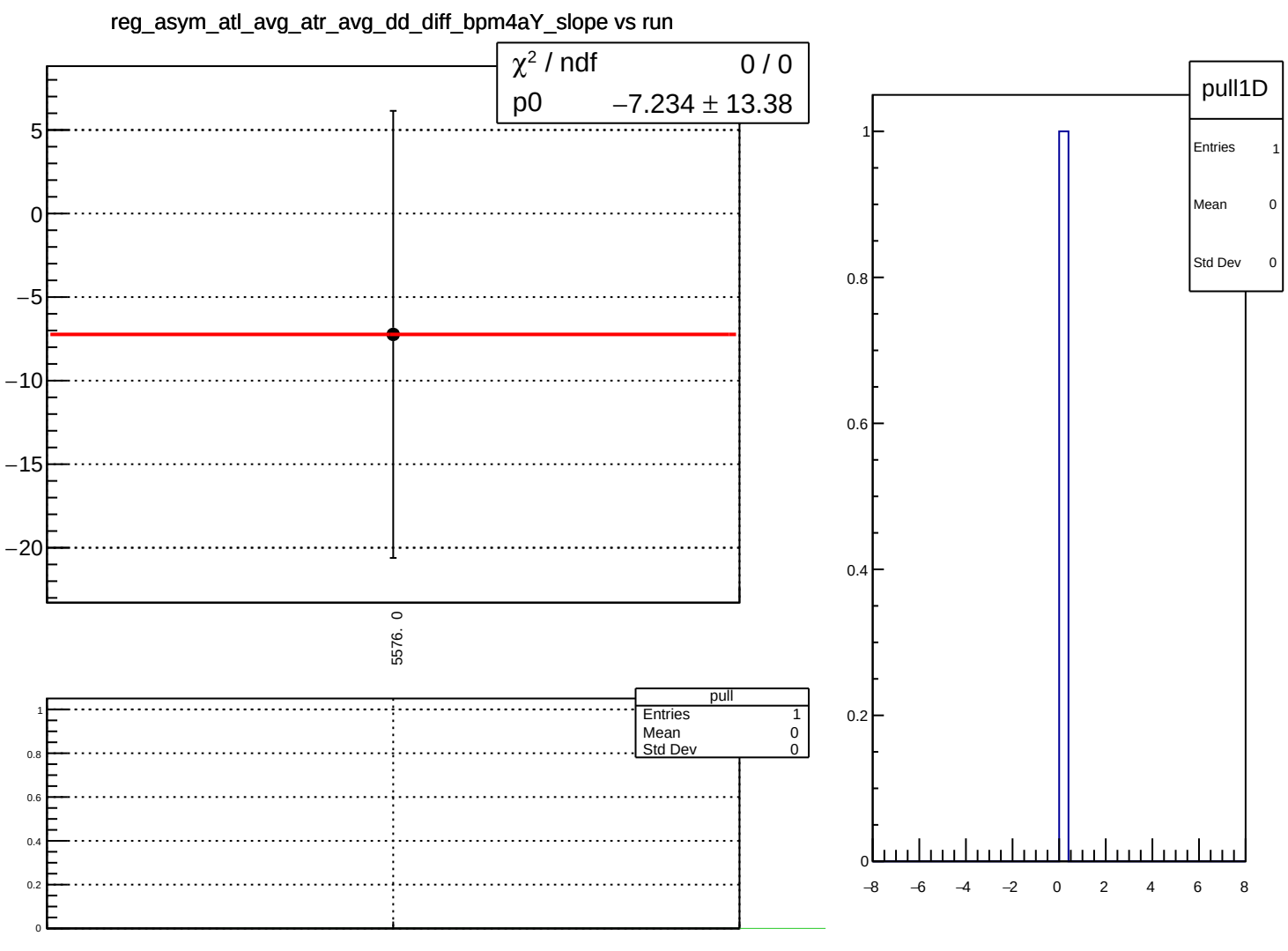
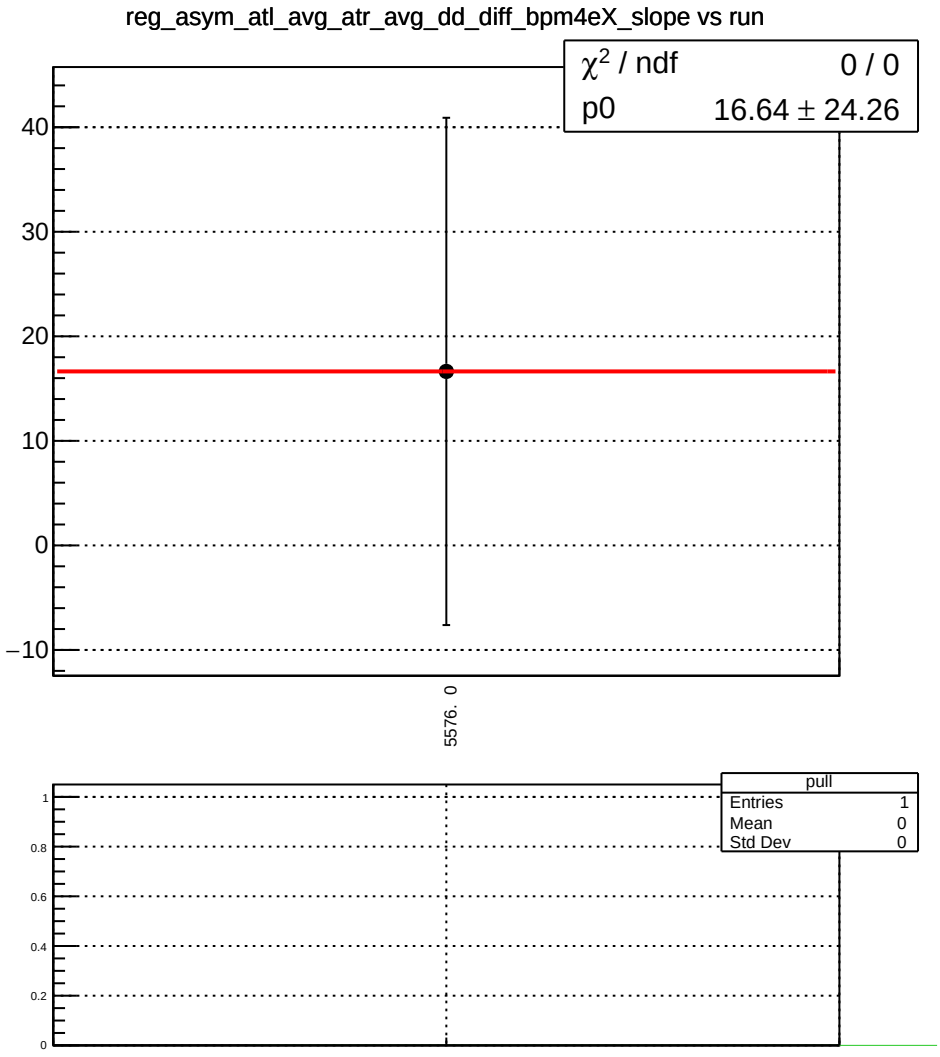
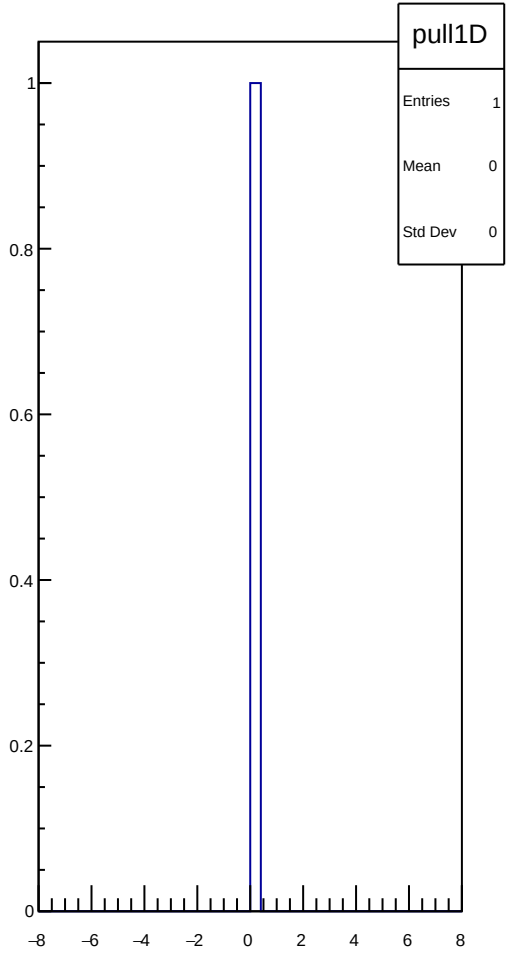

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 0 / 0
p0 −7.234 ± 13.38
5
0
−5
−10
−15
−20
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 16.64 ± 24.26
40
30
20
10
0
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


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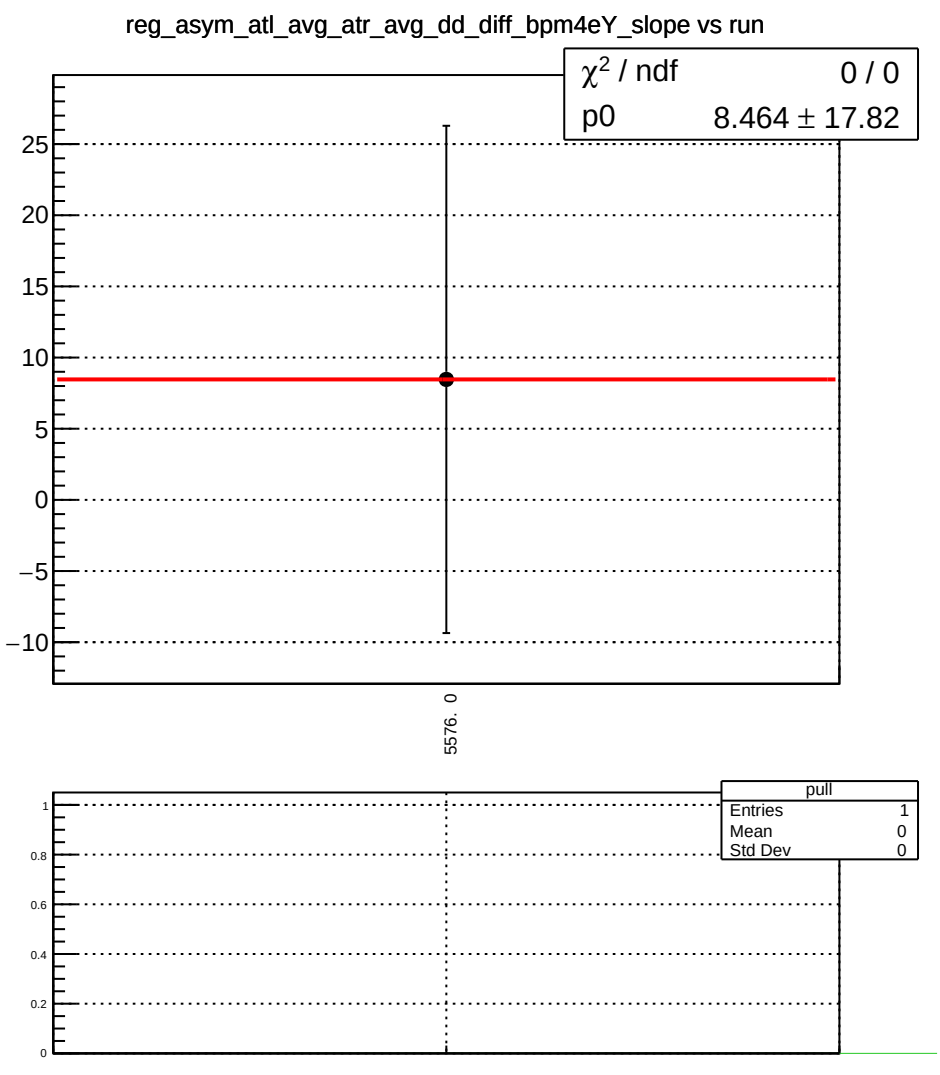
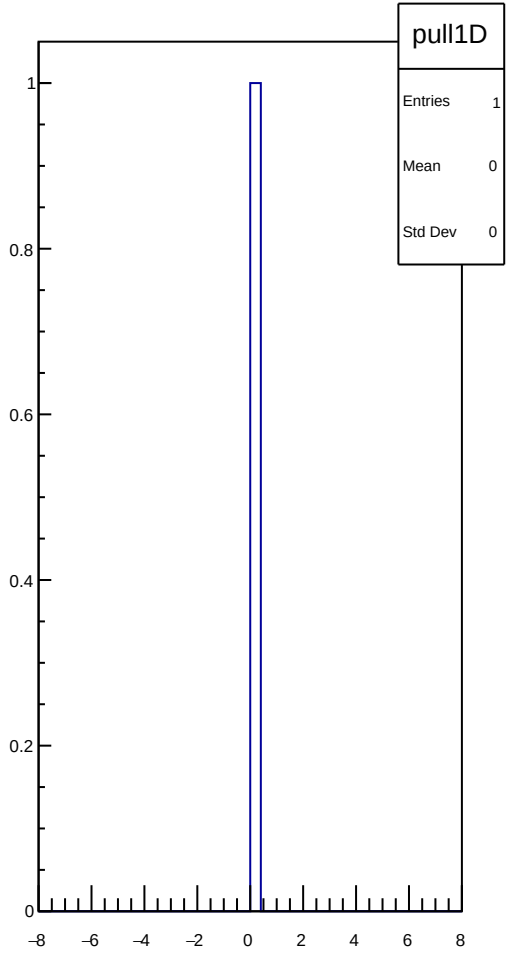
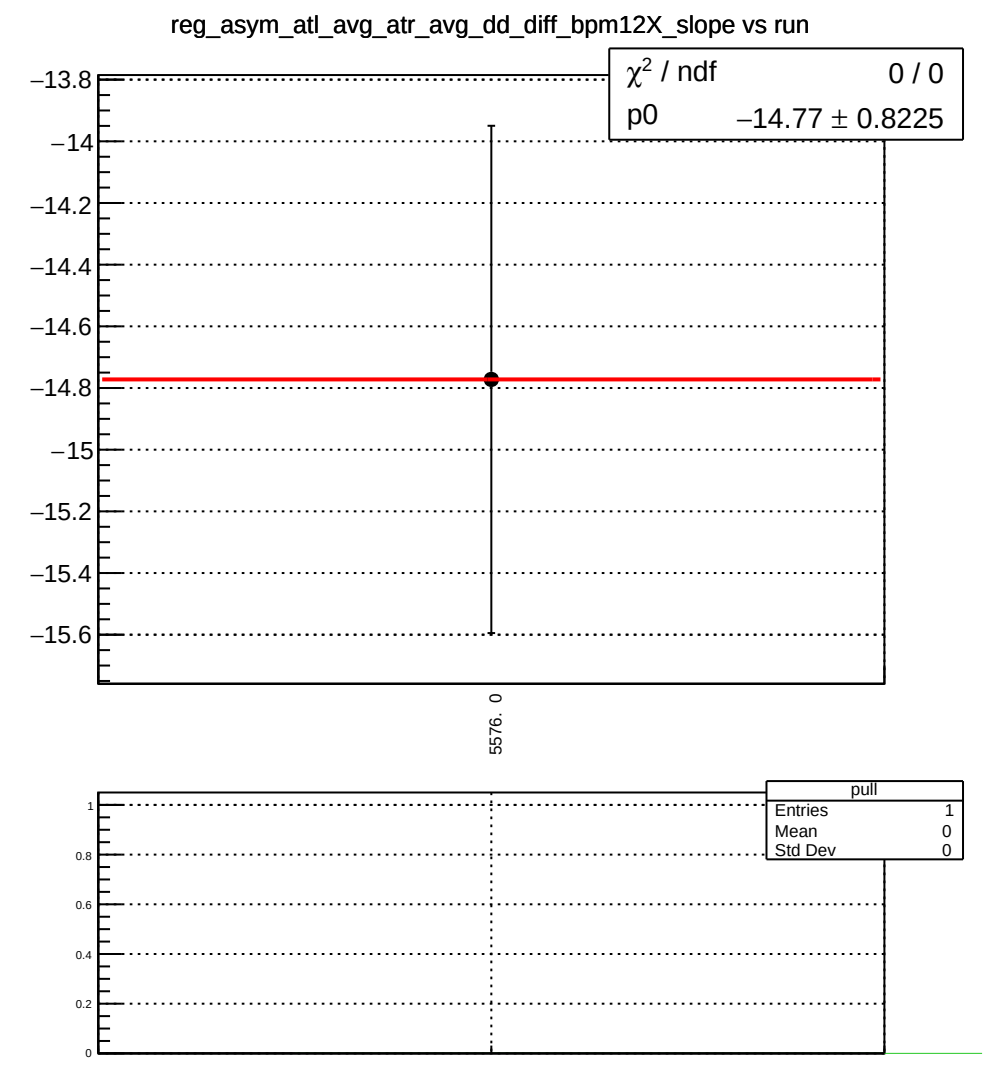
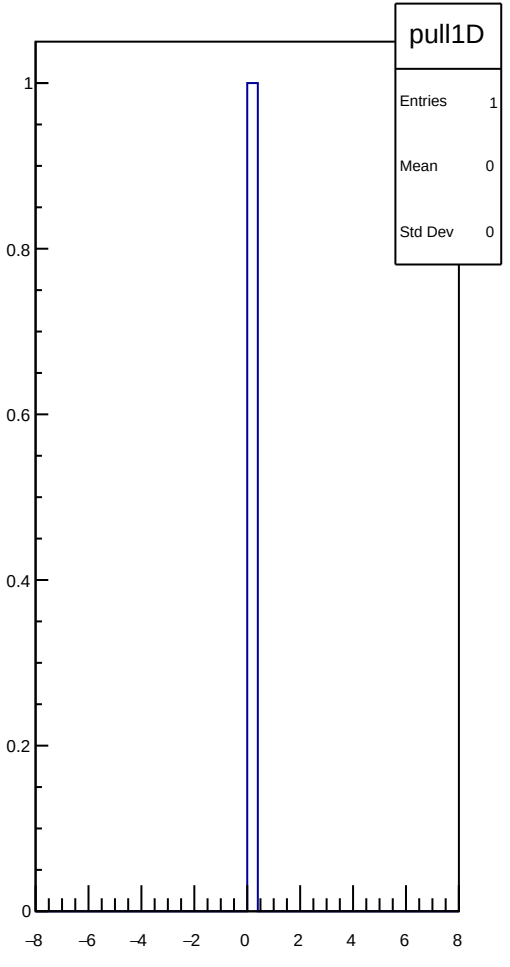
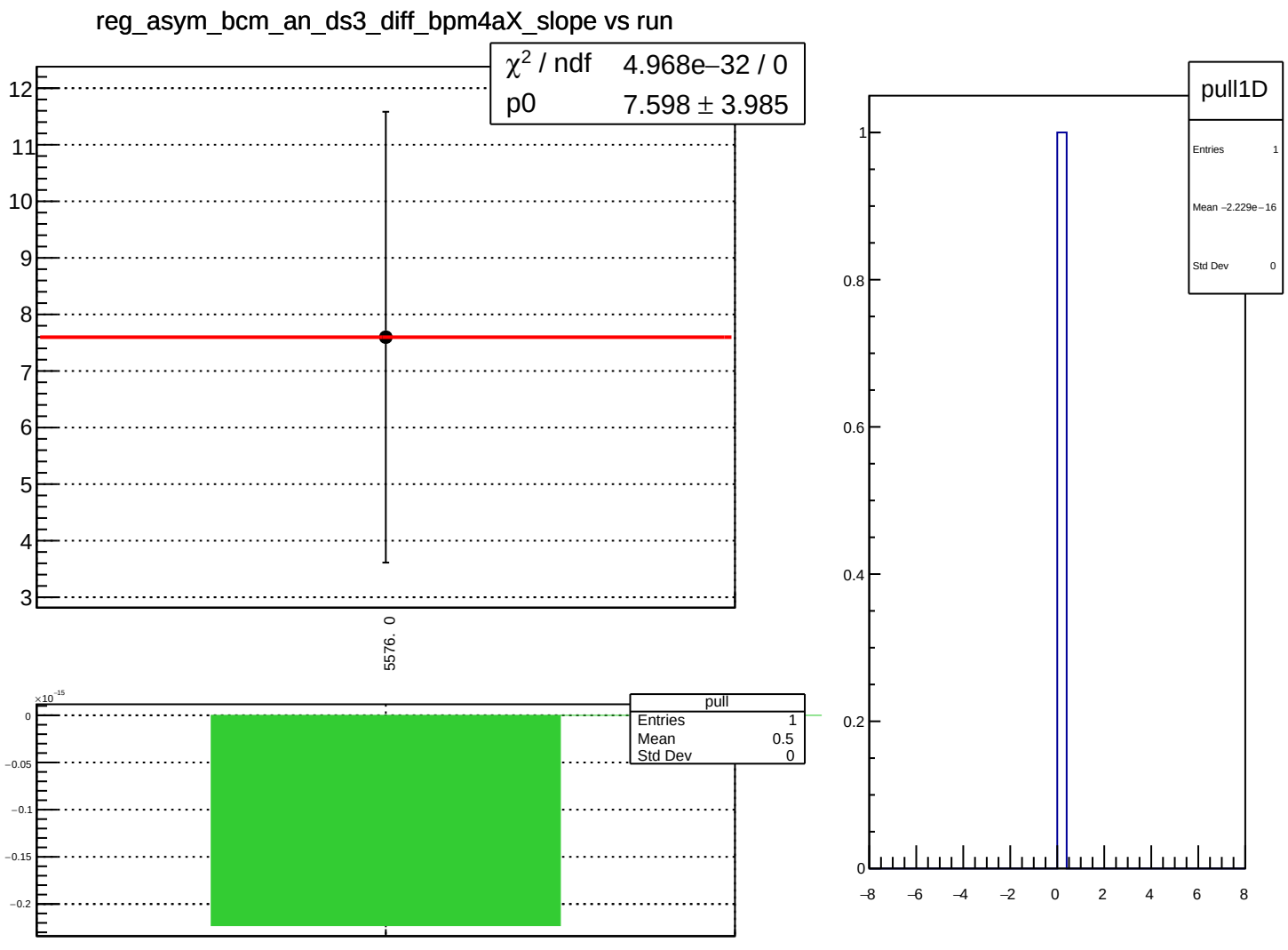
2
4
6
8

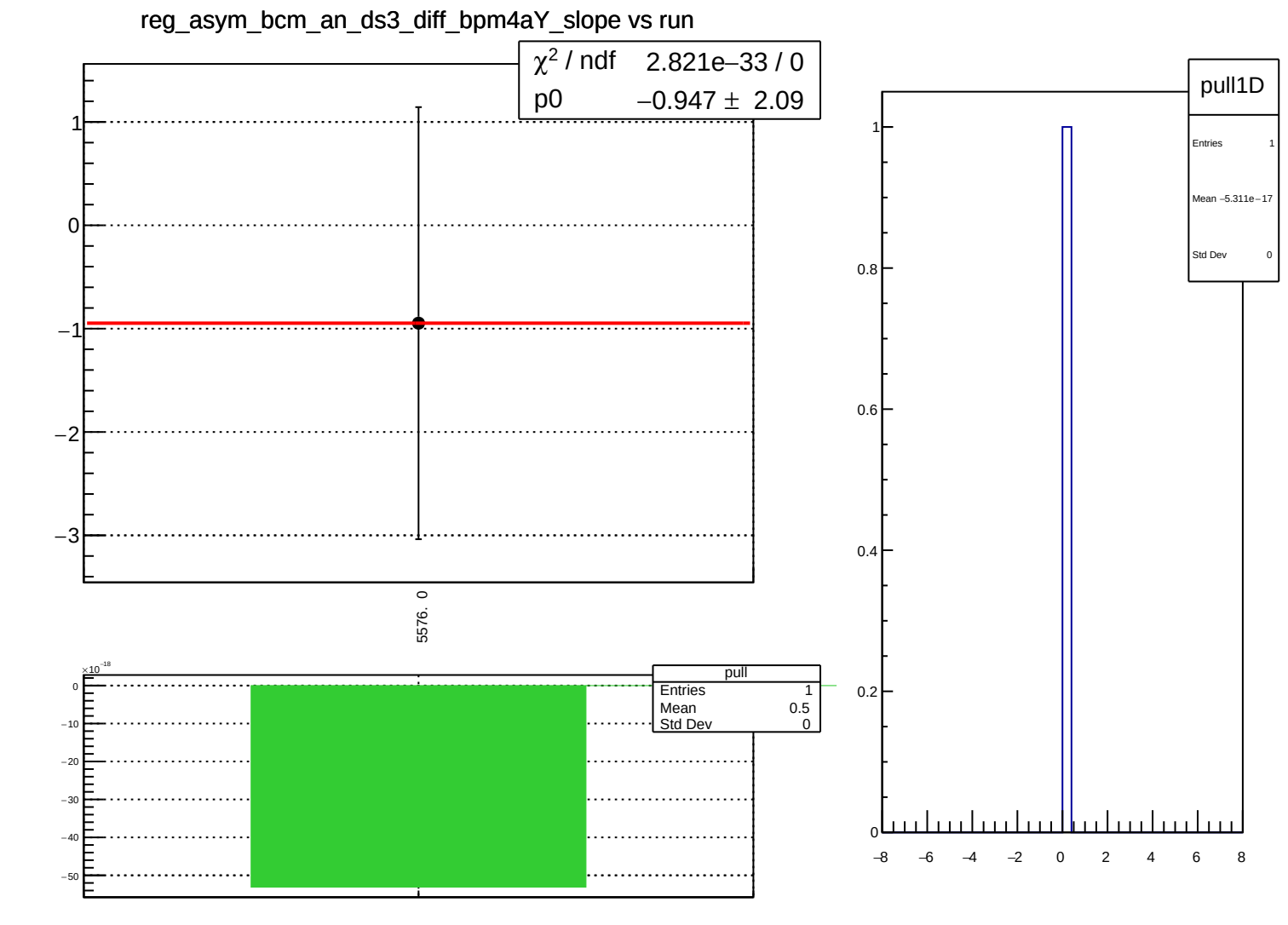

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 8.464 ± 17.82
25
20
15
10
5
0
−5
−10
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

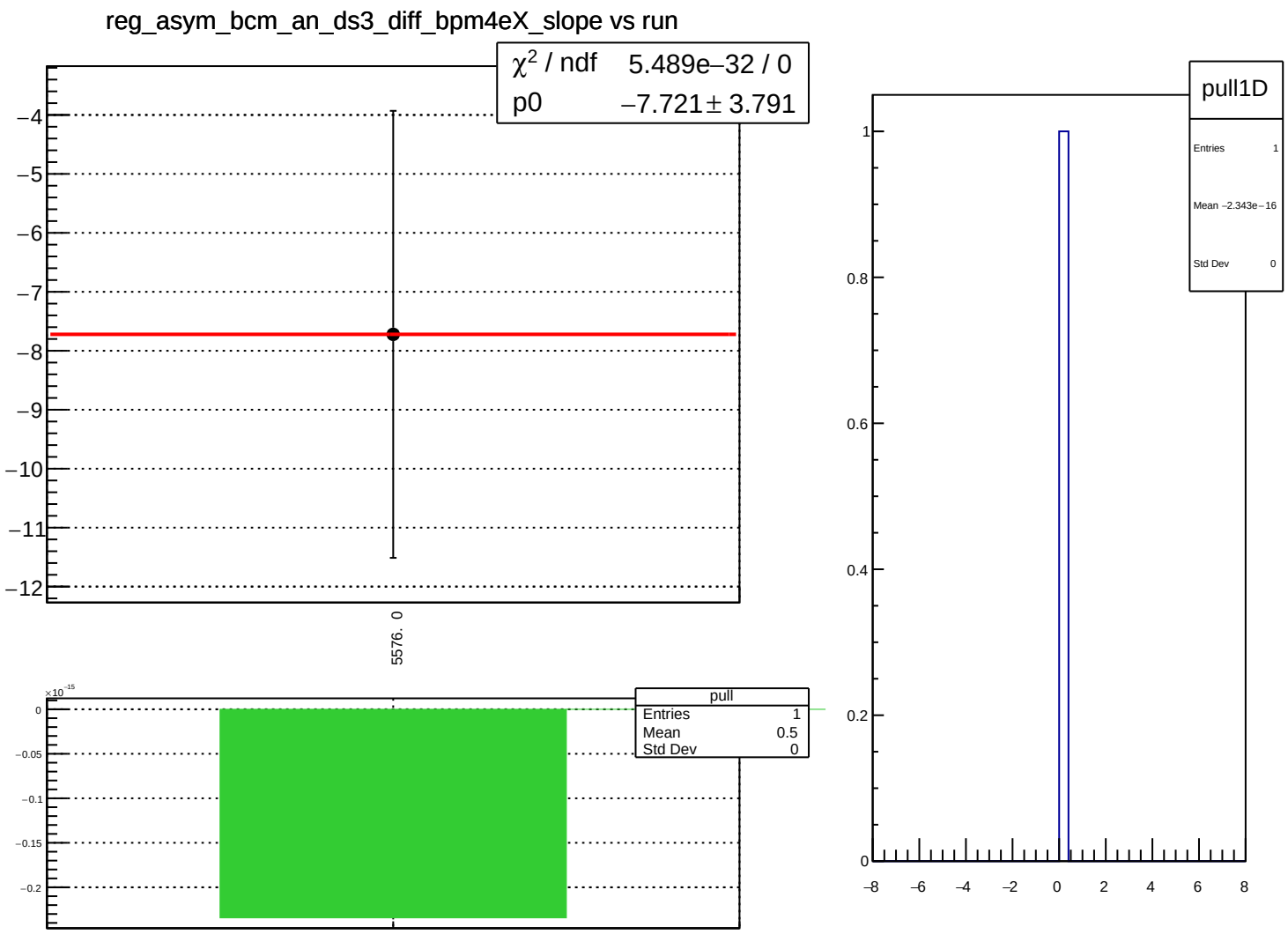

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

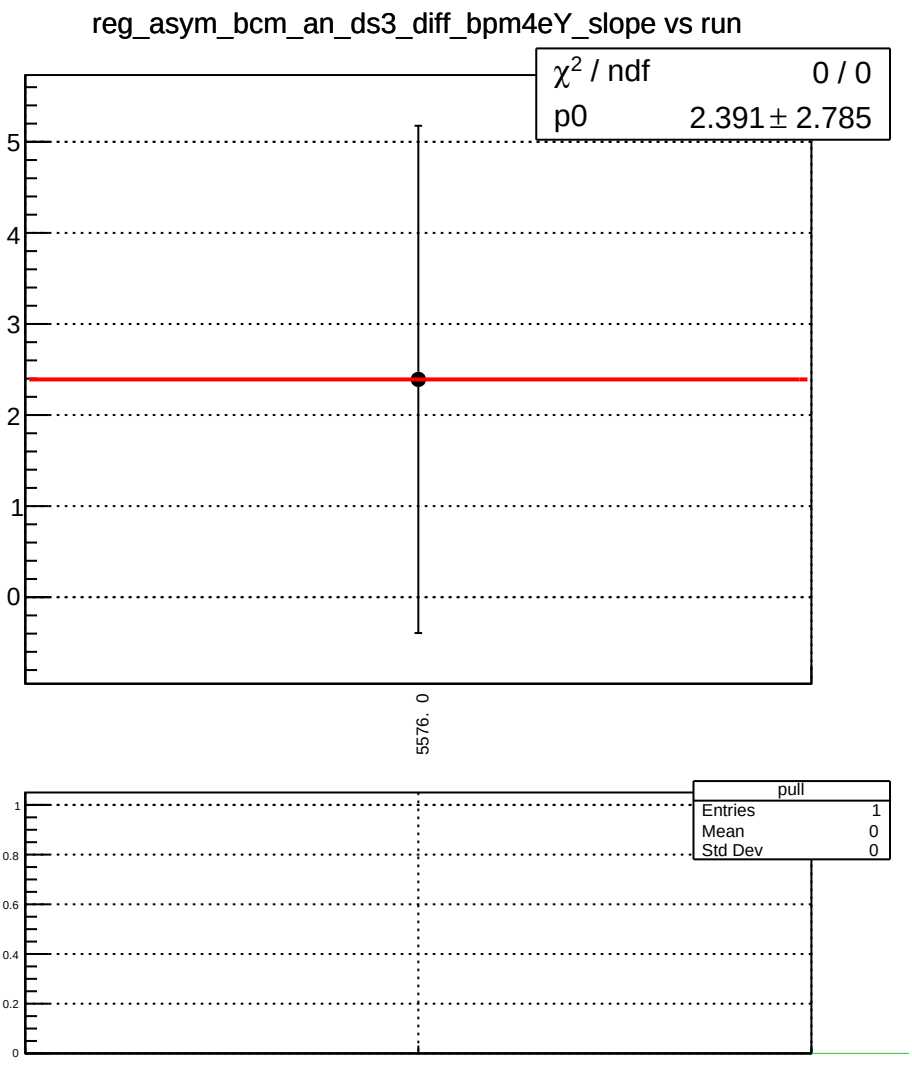

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −14.77 ± 0.8225
−13.8
−14
−14.2
−14.4
−14.6
−14.8
−15
−15.2
−15.4
−15.6
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

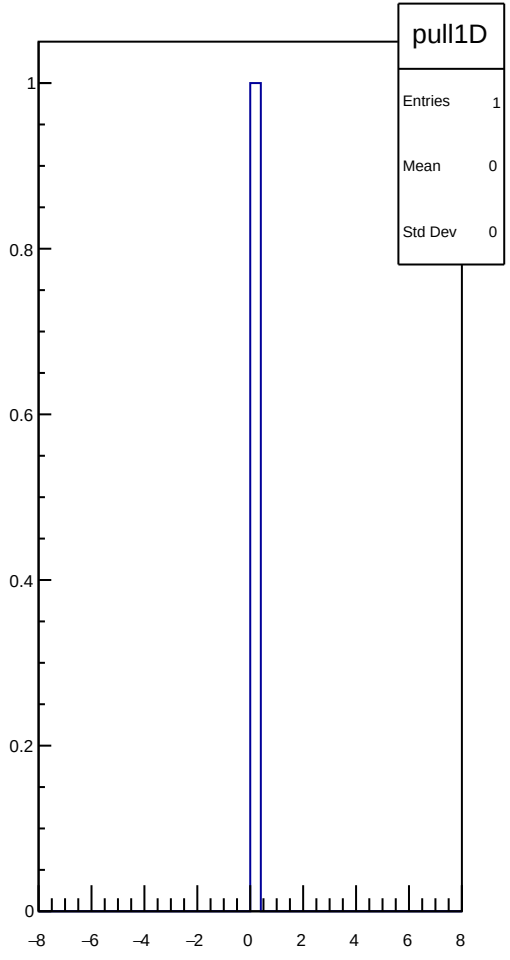

pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

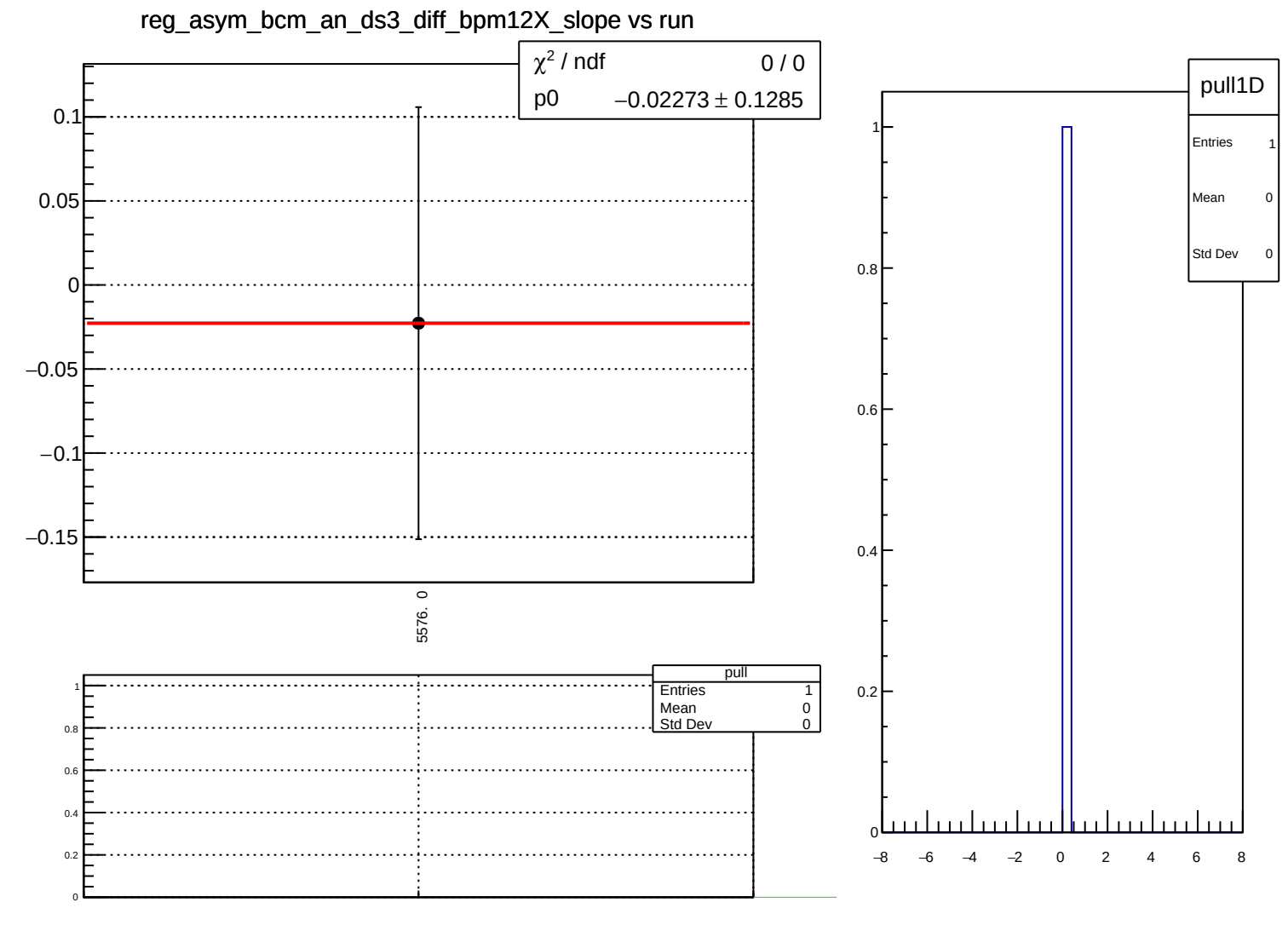

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 4.968e−32 / 0
p0 7.598 ± 3.985
12
11
10
9
8
7
6
5
4
3
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.229e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

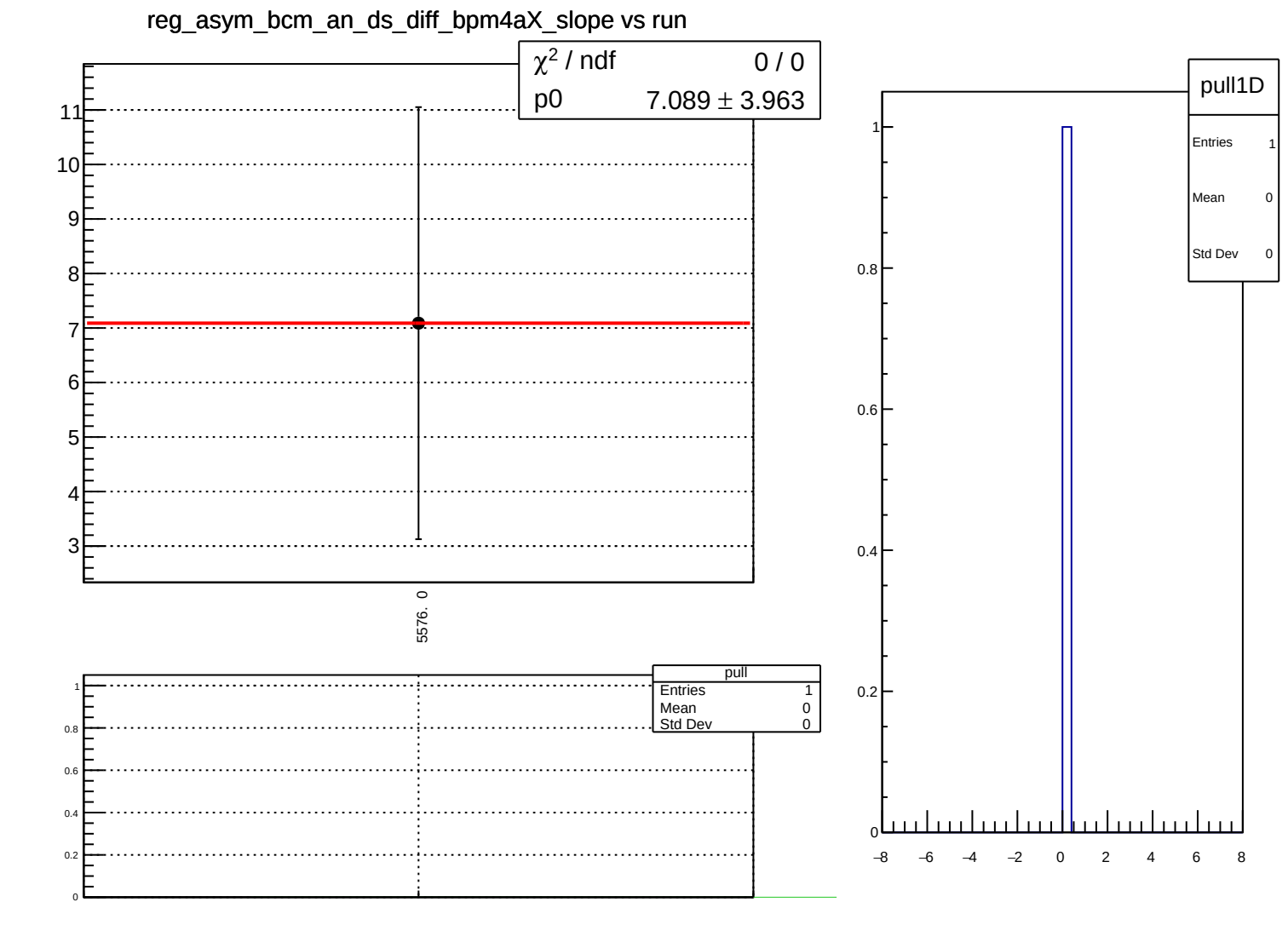

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 2.821e−33 / 0
p0 −0.947 ± 2.09
1
0
−1
−2
−3
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −5.311e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

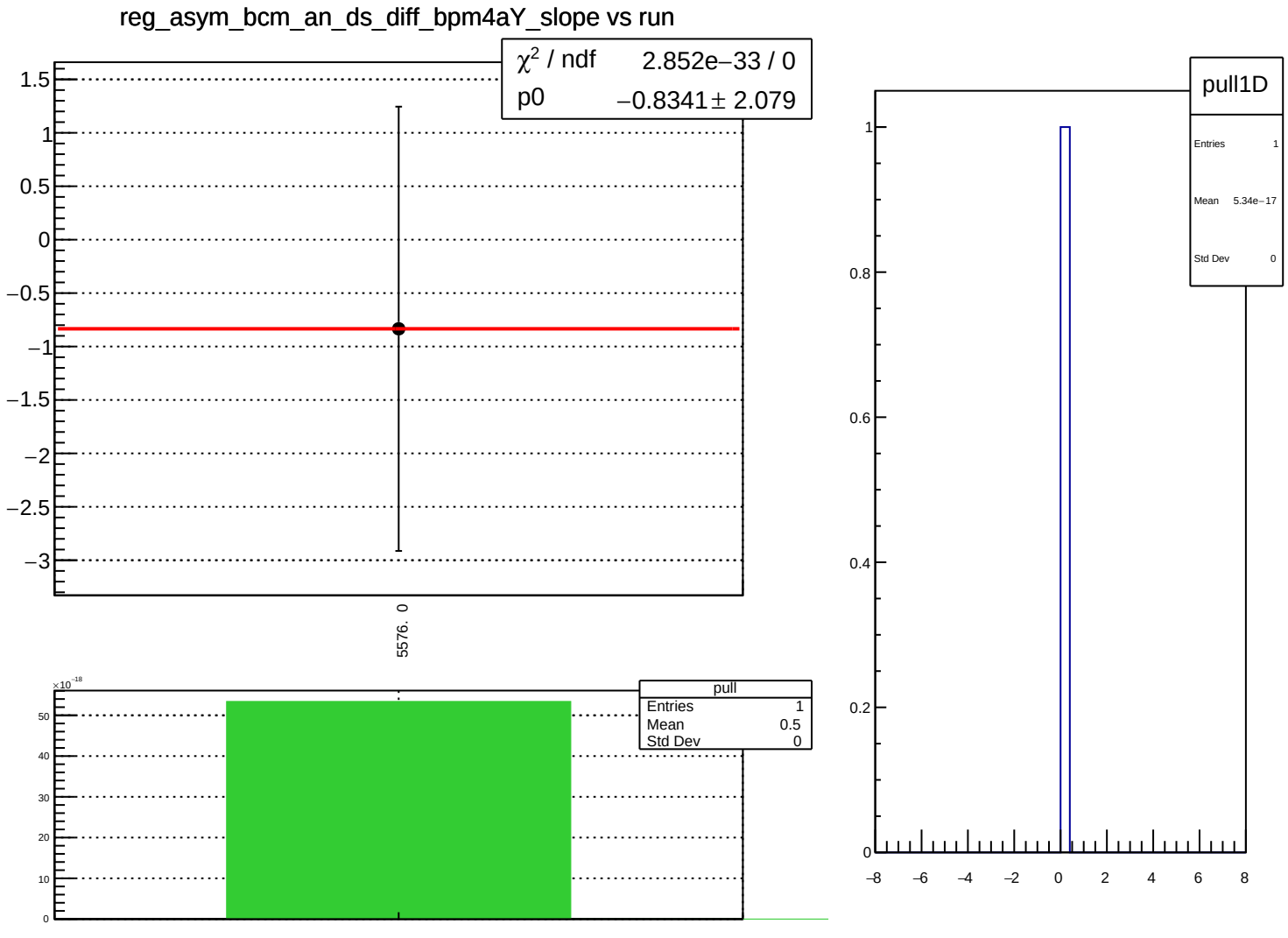

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 5.489e−32 / 0
p0 −7.721 ± 3.791
−4
−5
−6
−7
−8
−9
−10
−11
−12
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.343e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

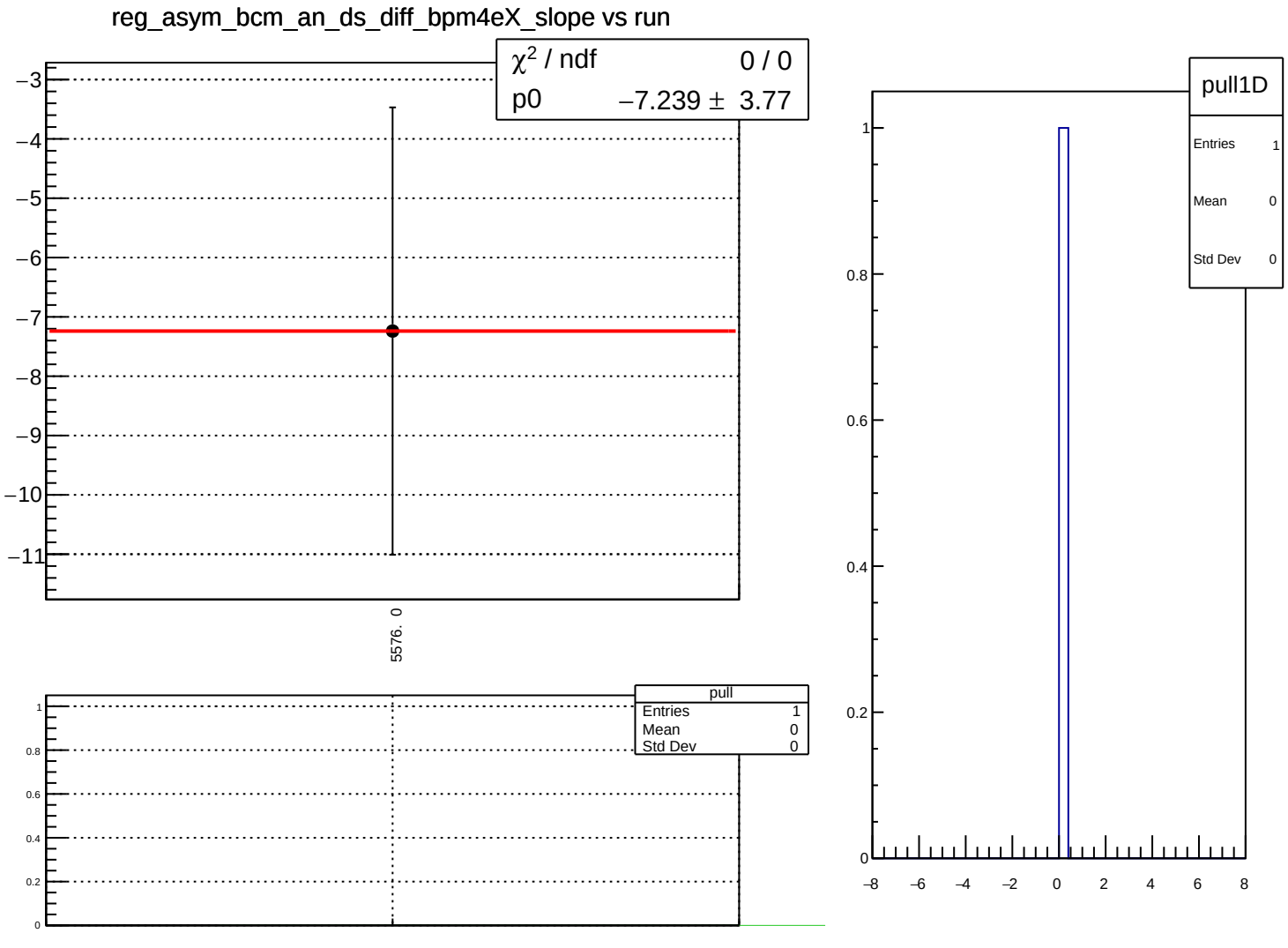

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 2.391 ± 2.785
5576. 0
pull
Entries 1
Mean 0
Std Dev 0

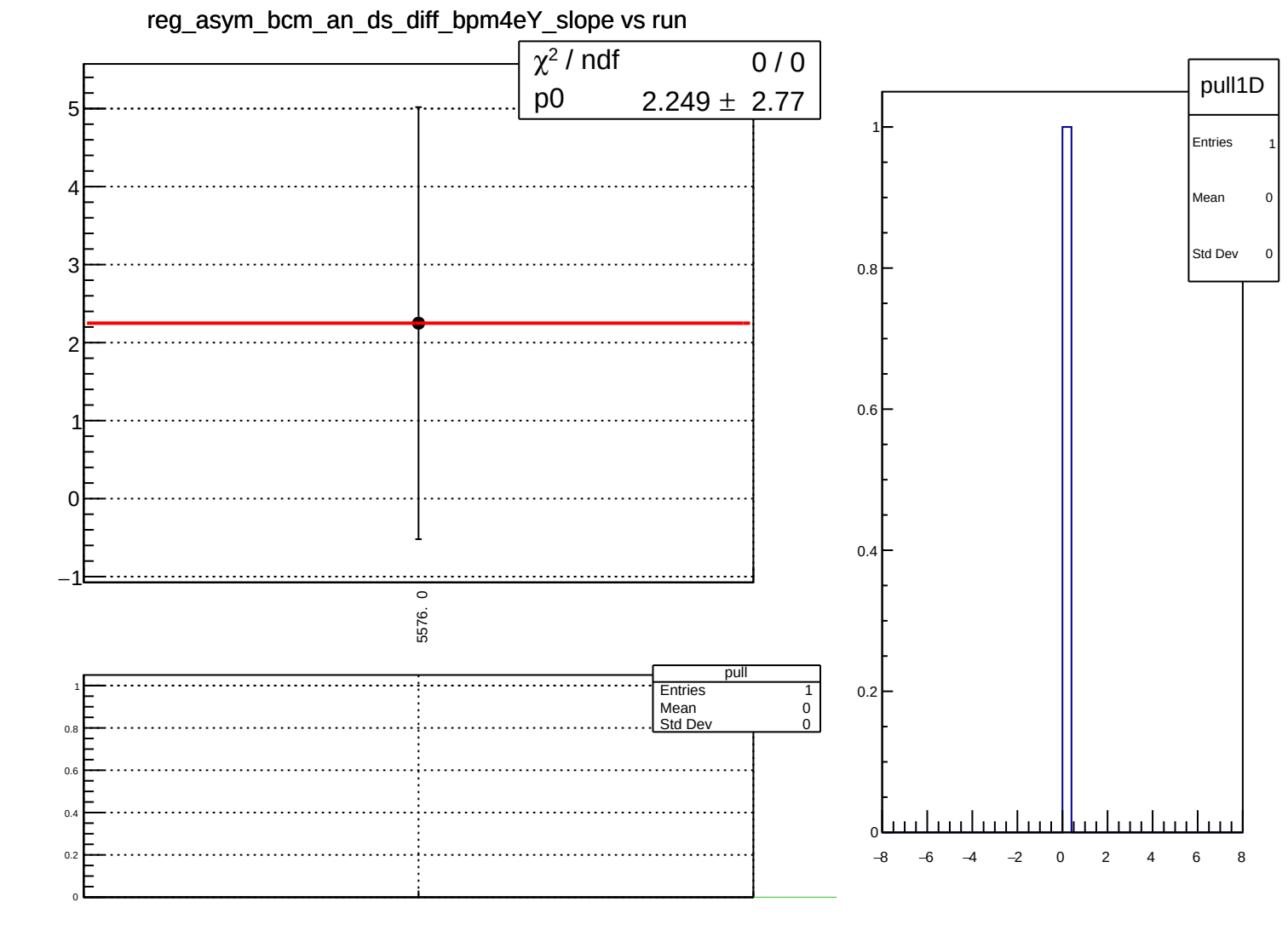

pull1D
Entries 1
Mean 0
Std Dev 0

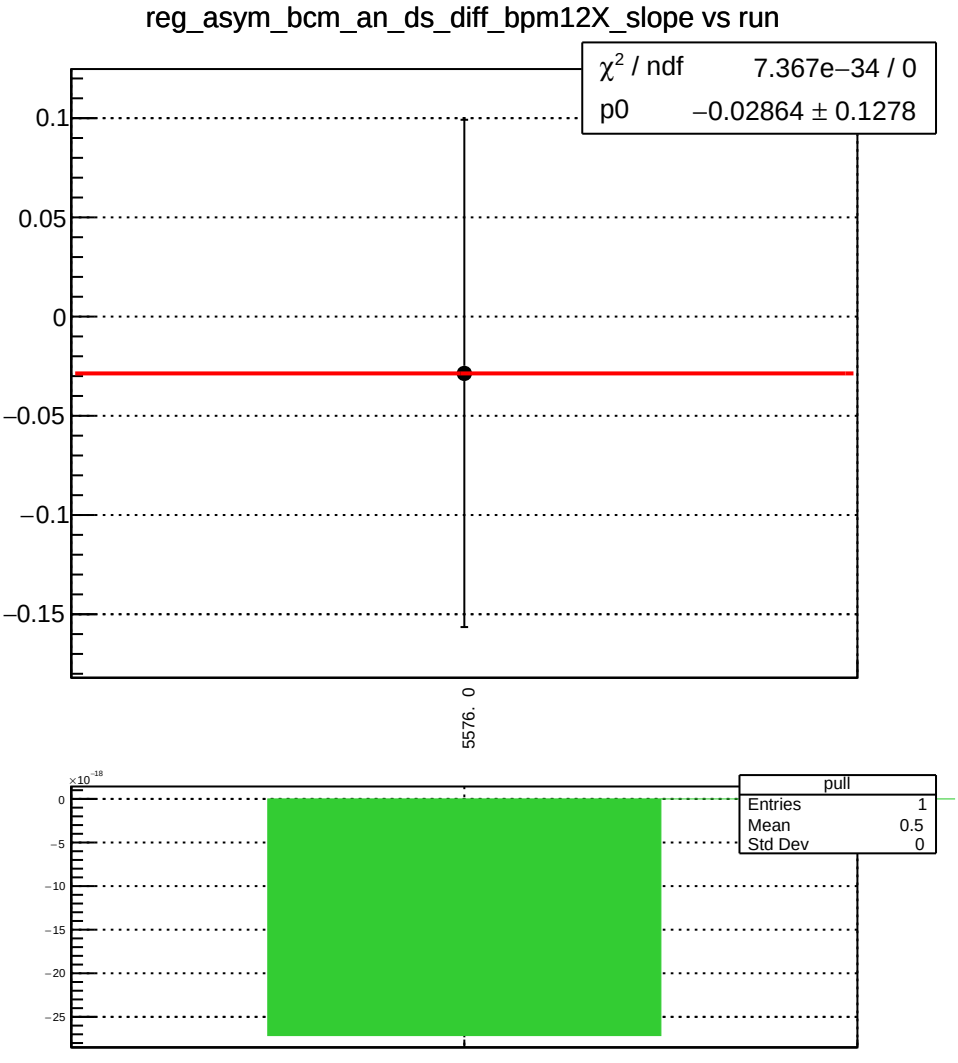

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.02273 ± 0.1285
0.1
0.05
0
−0.05
−0.1
−0.15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

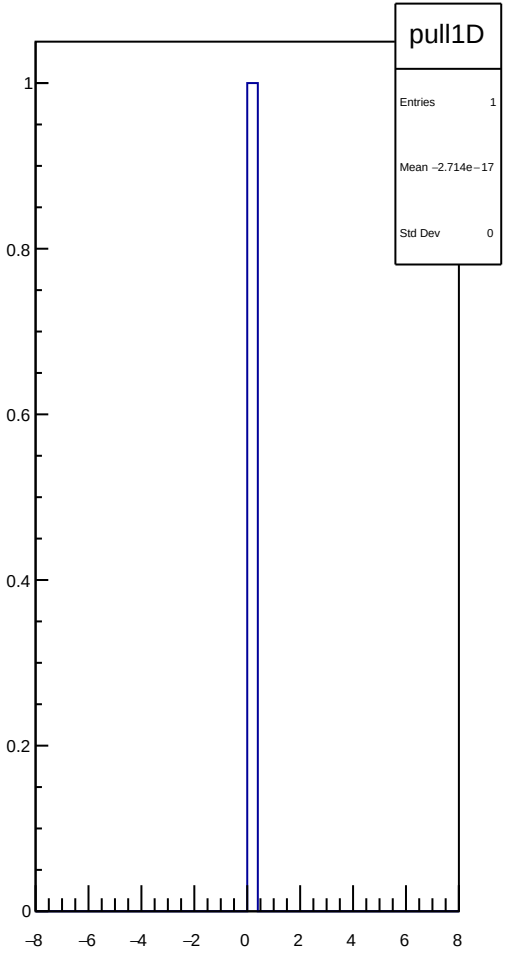

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 7.089 ± 3.963
11
10
9
8
7
6
5
4
3
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

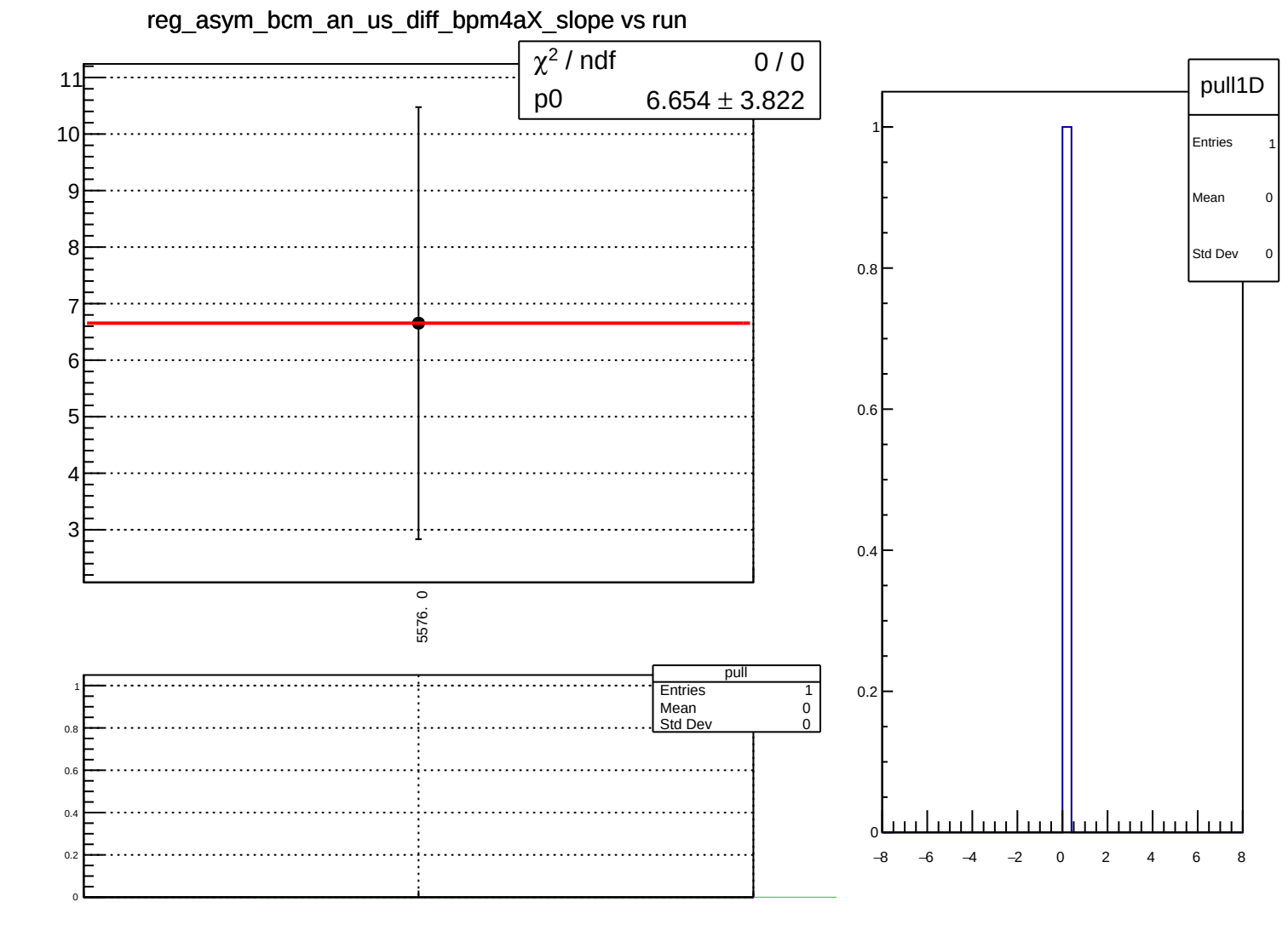

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 2.852e−33 / 0
p0 −0.8341 ± 2.079
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 5.34e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

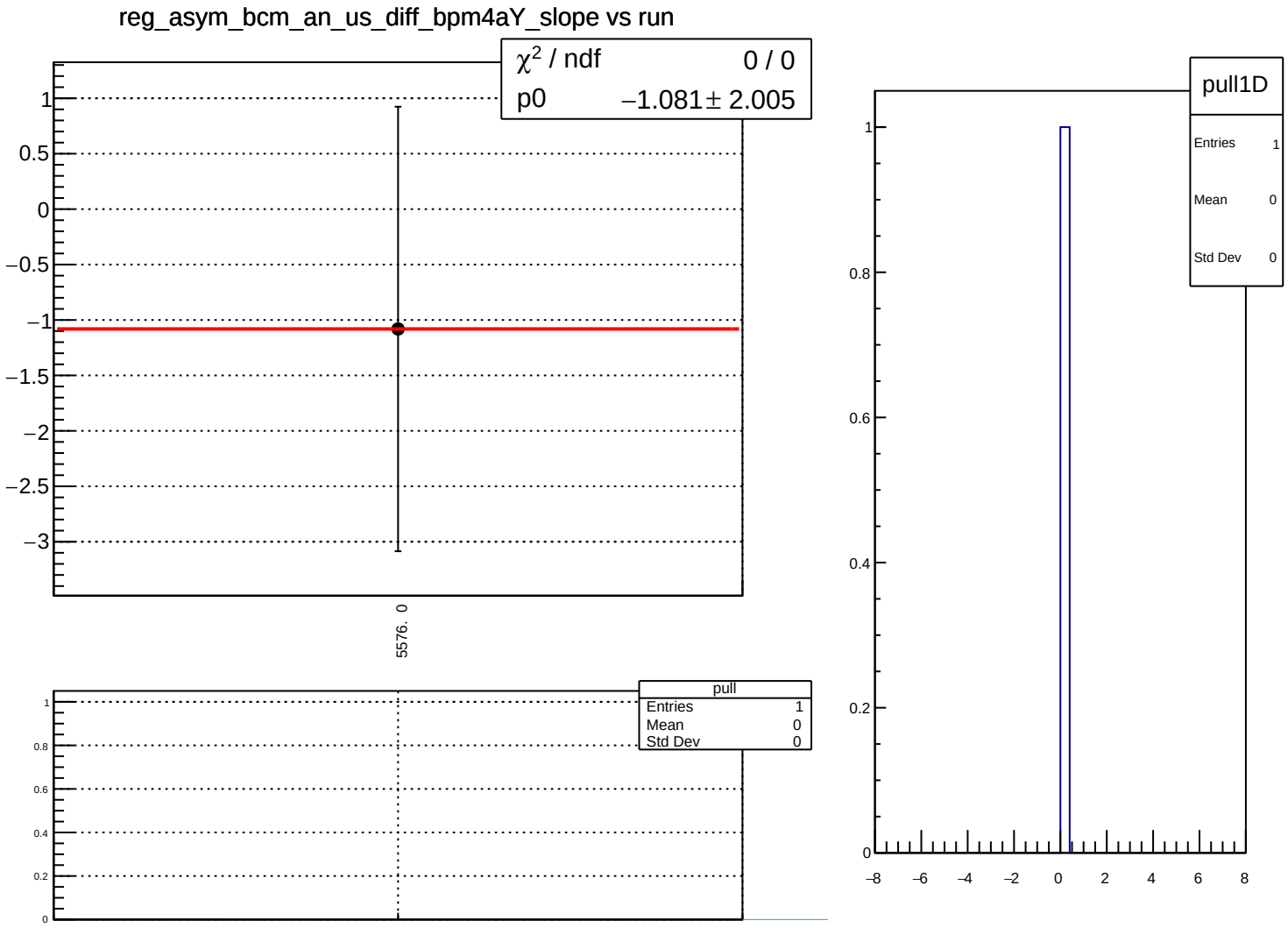

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −7.239 ± 3.77
−3
−4
−5
−6
−7
−8
−9
−10
−11
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

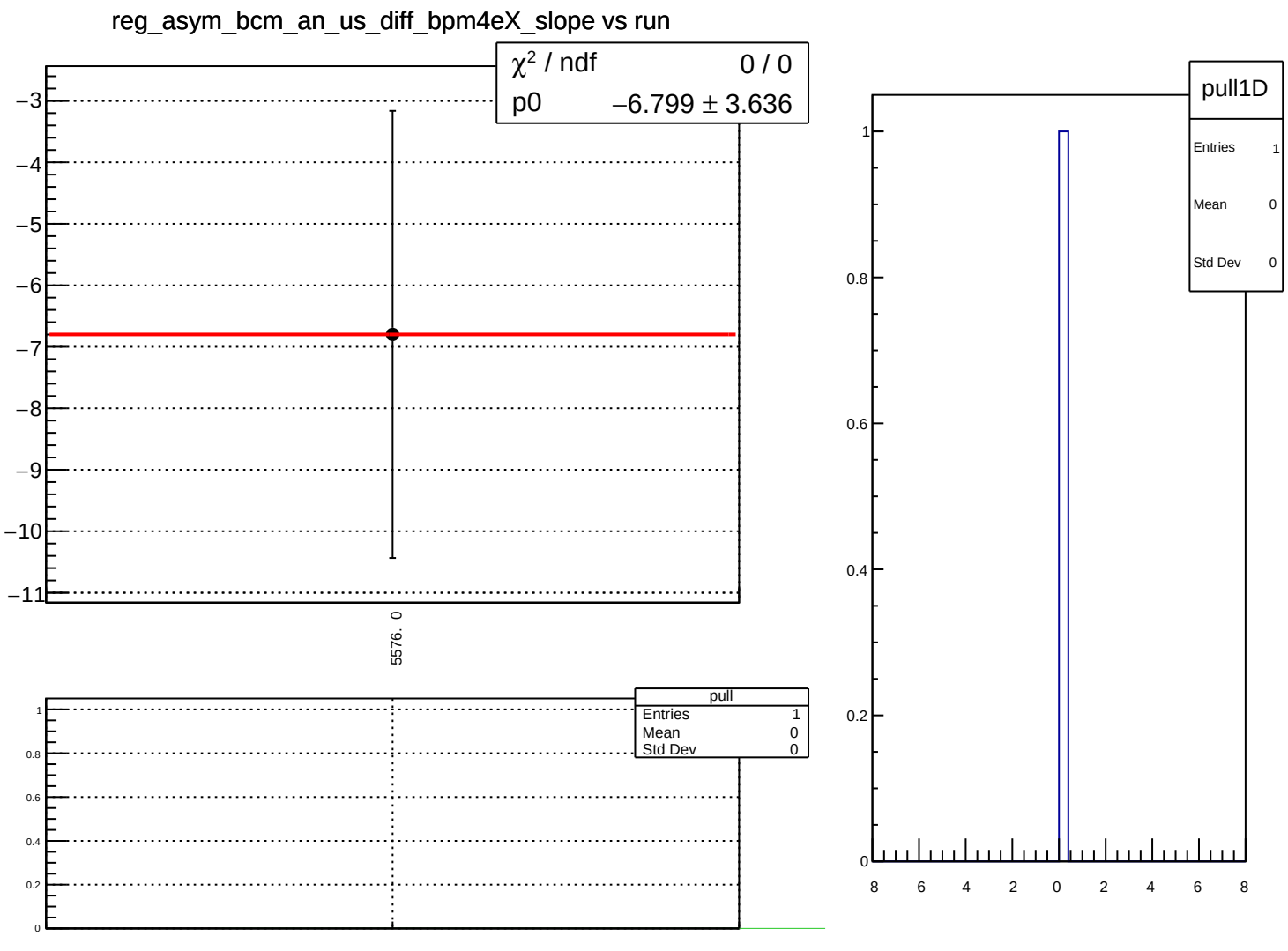

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 2.249 ± 2.77
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

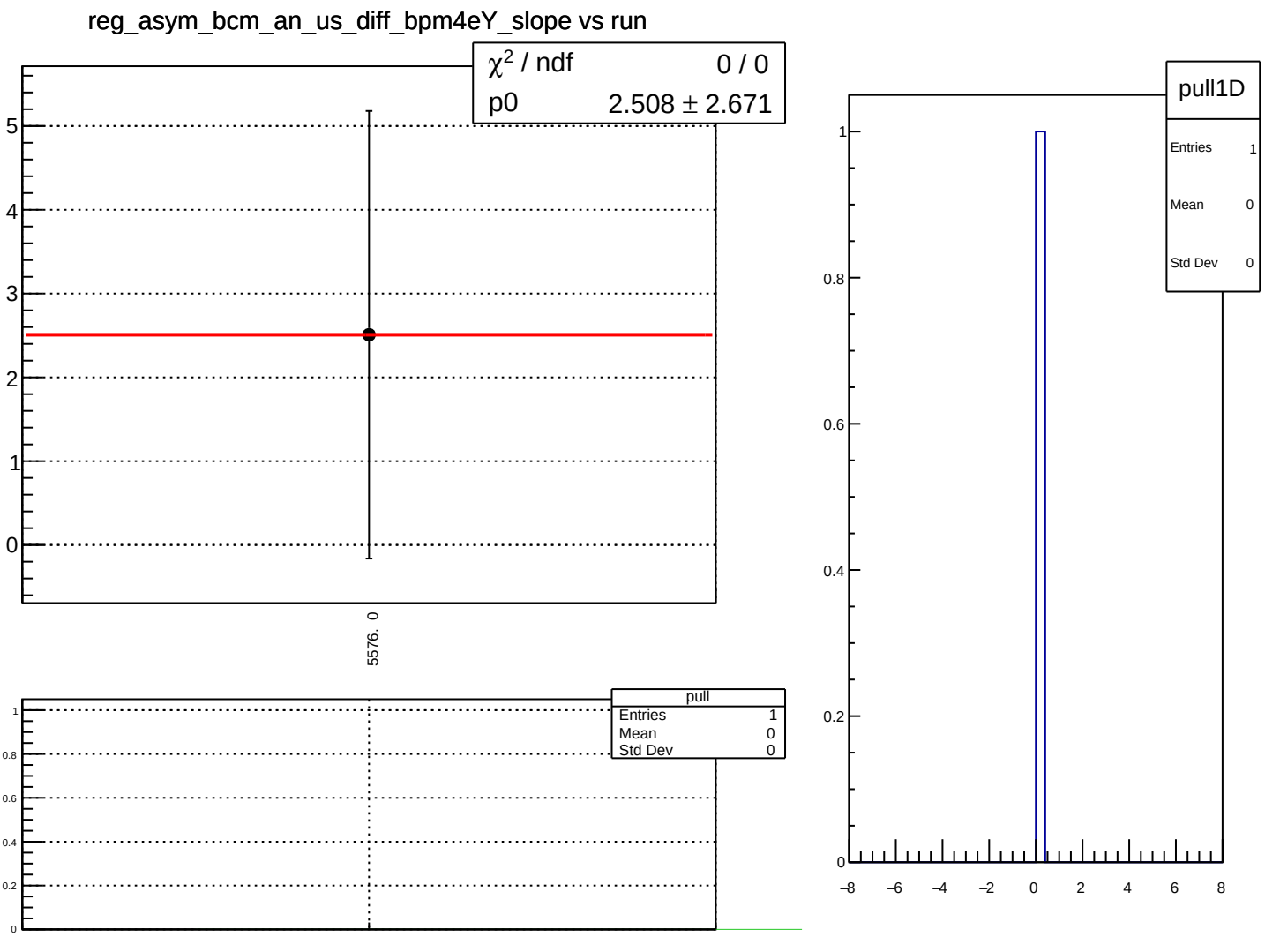

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 7.367e−34 / 0
p0 −0.02864 ± 0.1278
0.1
0.05
0
−0.05
−0.1
−0.15
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0

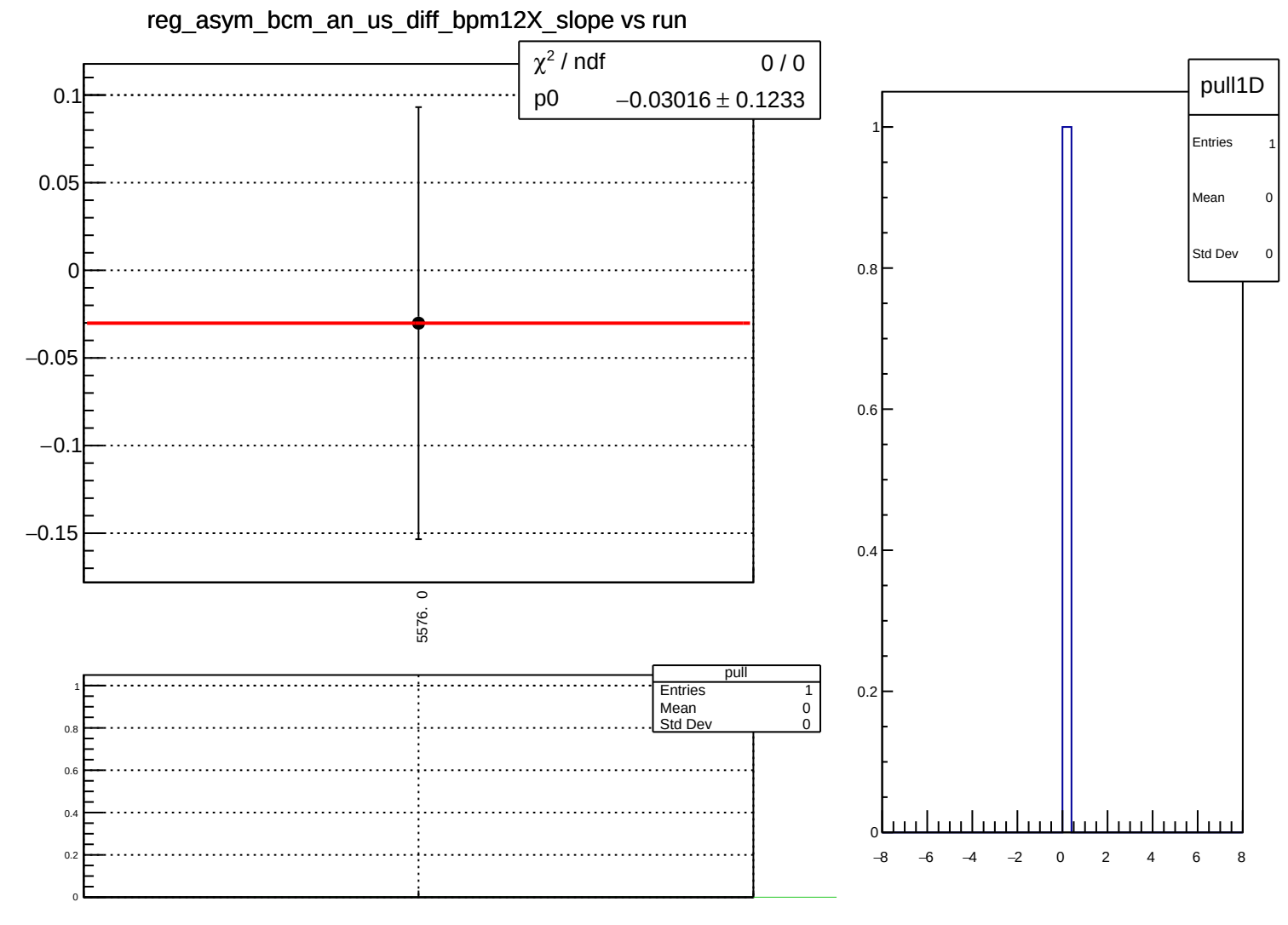

pull1D
Entries 1
Mean −2.714e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

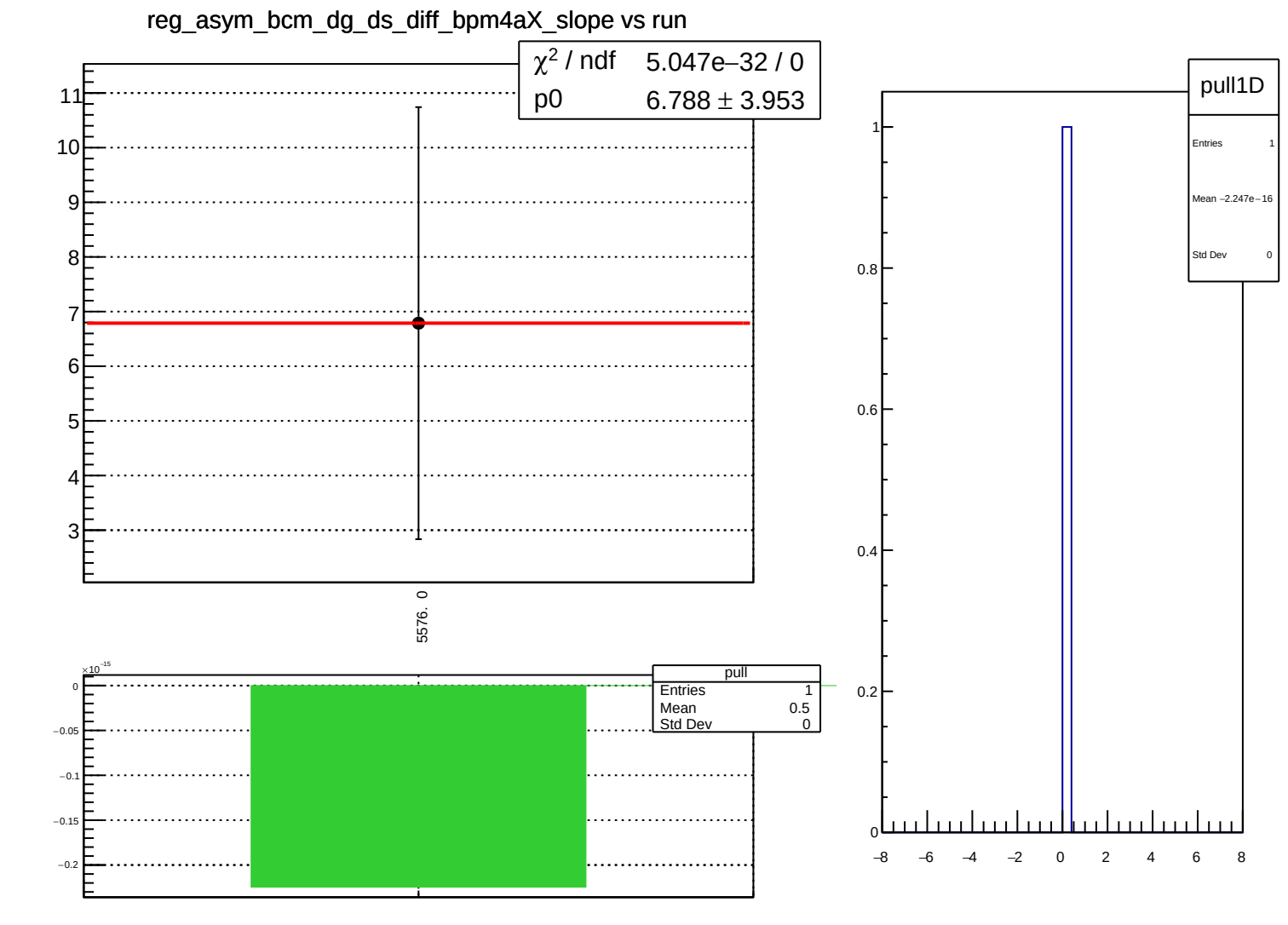

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 6.654 ± 3.822
11
10
9
8
7
6
5
4
3
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

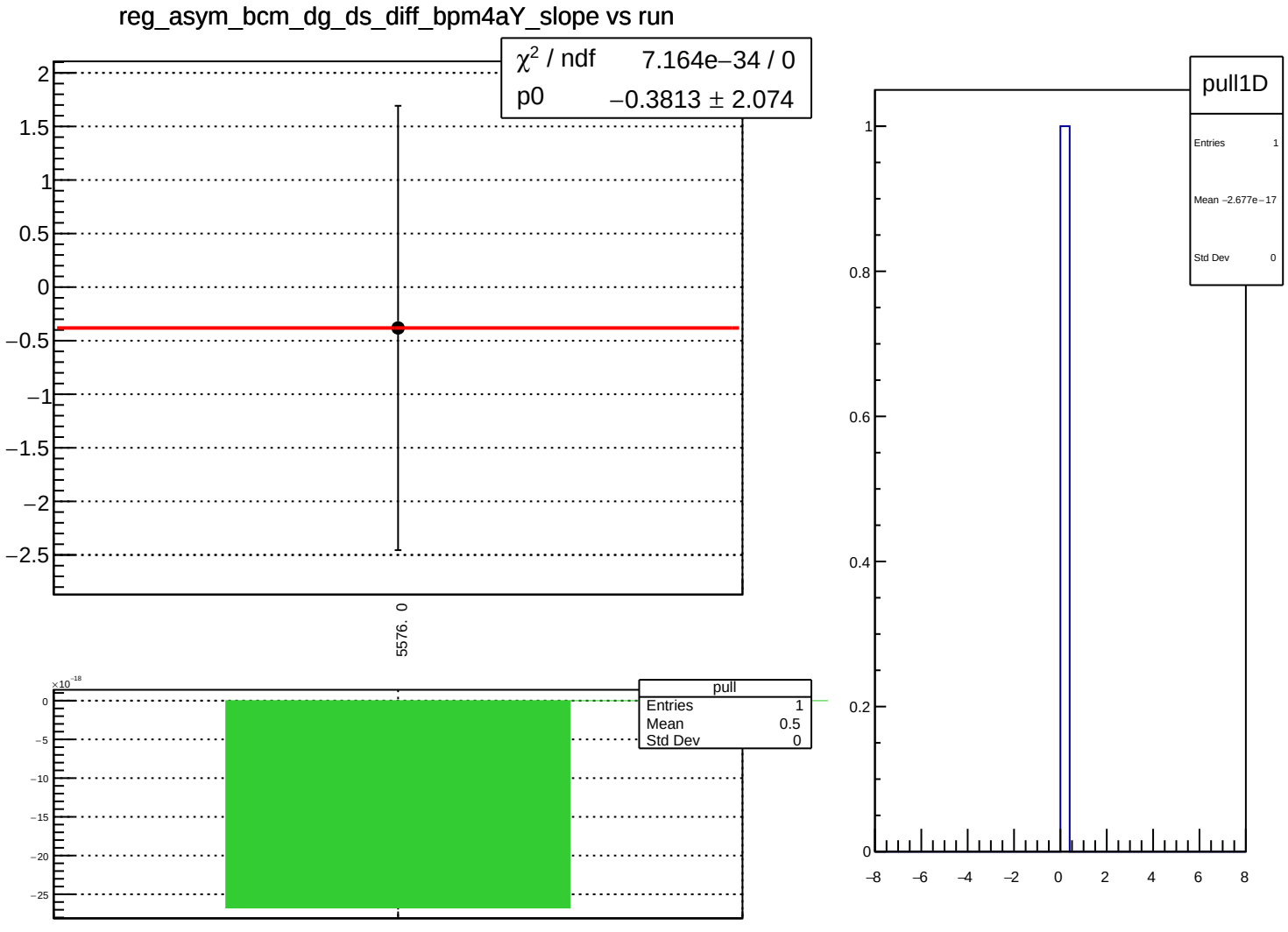

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ2 / ndf 0 / 0
p0 −1.081± 2.005
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

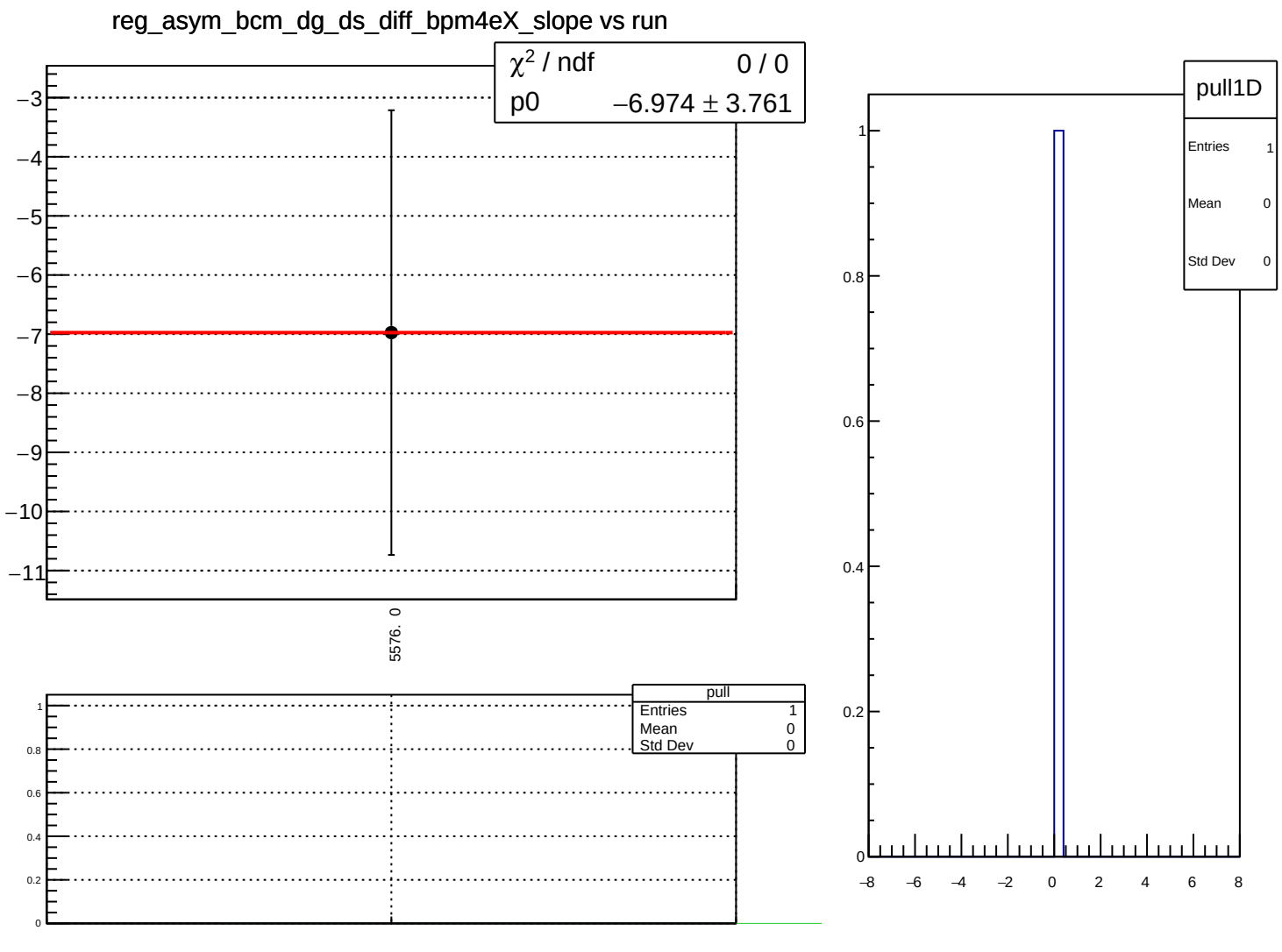

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −6.799 ± 3.636
−3
−4
−5
−6
−7
−8
−9
−10
−11
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

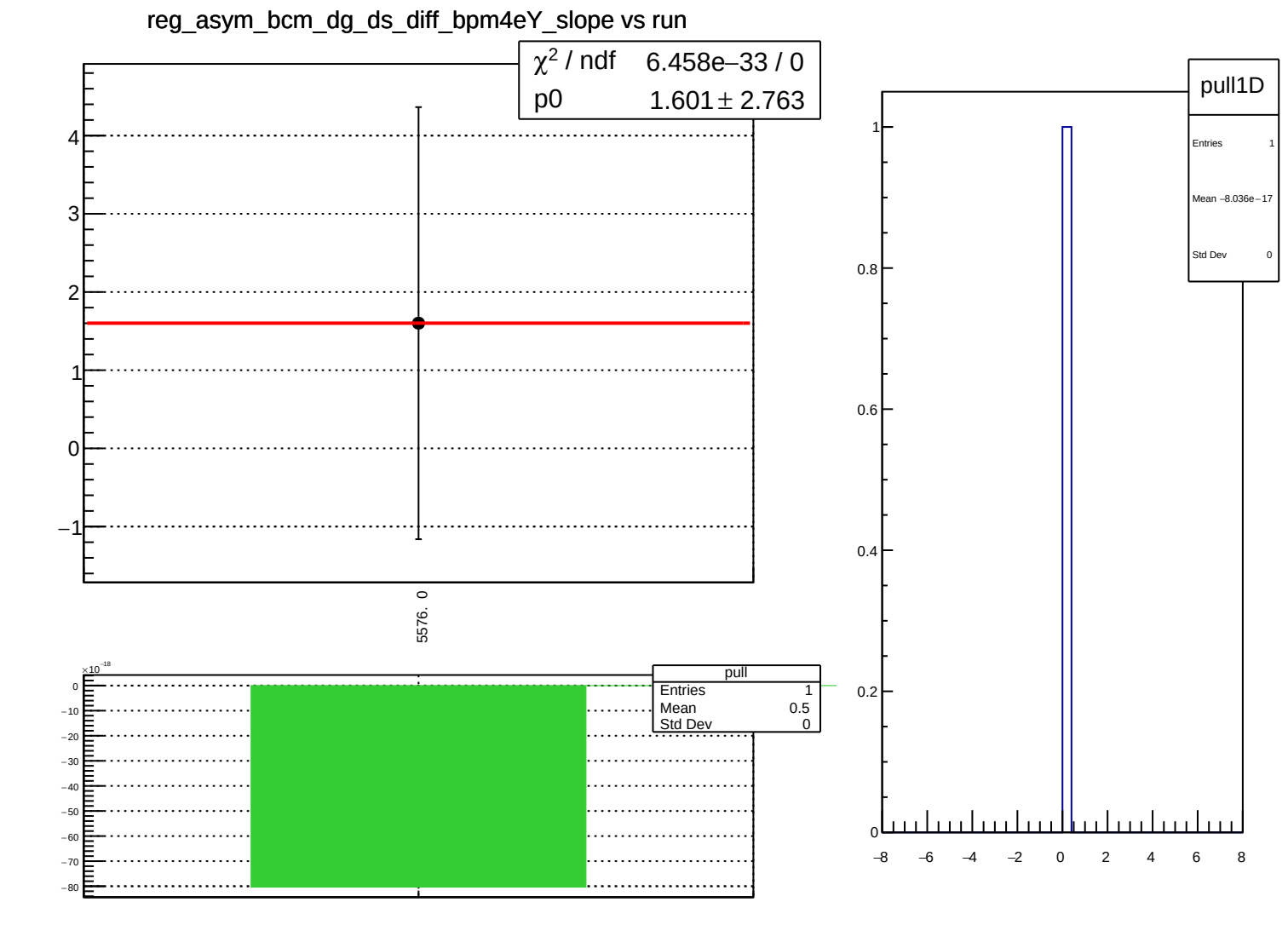

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 0 / 0
p0 2.508 ± 2.671
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0

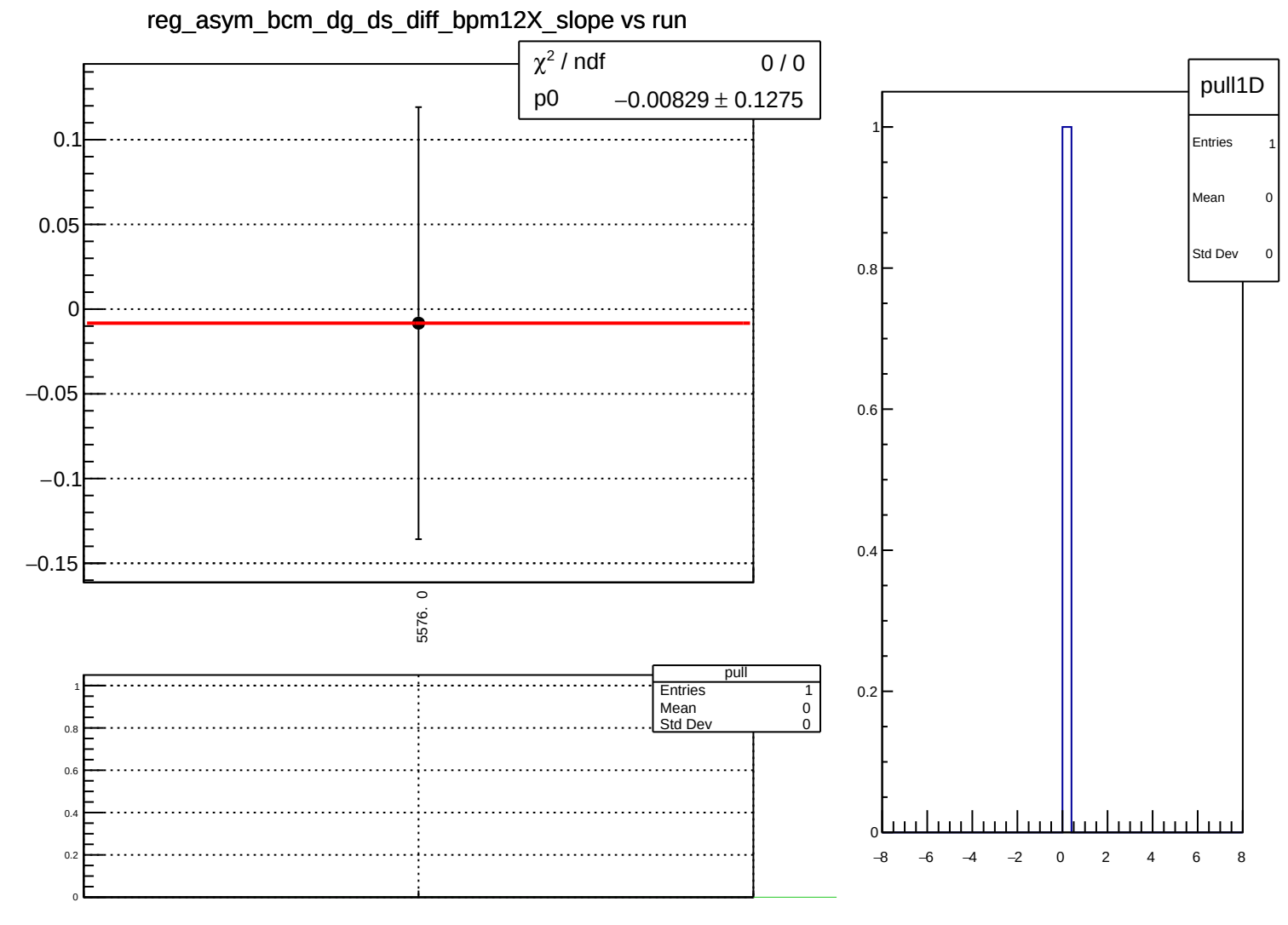

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.03016 ± 0.1233
0.1
0.05
0
−0.05
−0.1
−0.15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

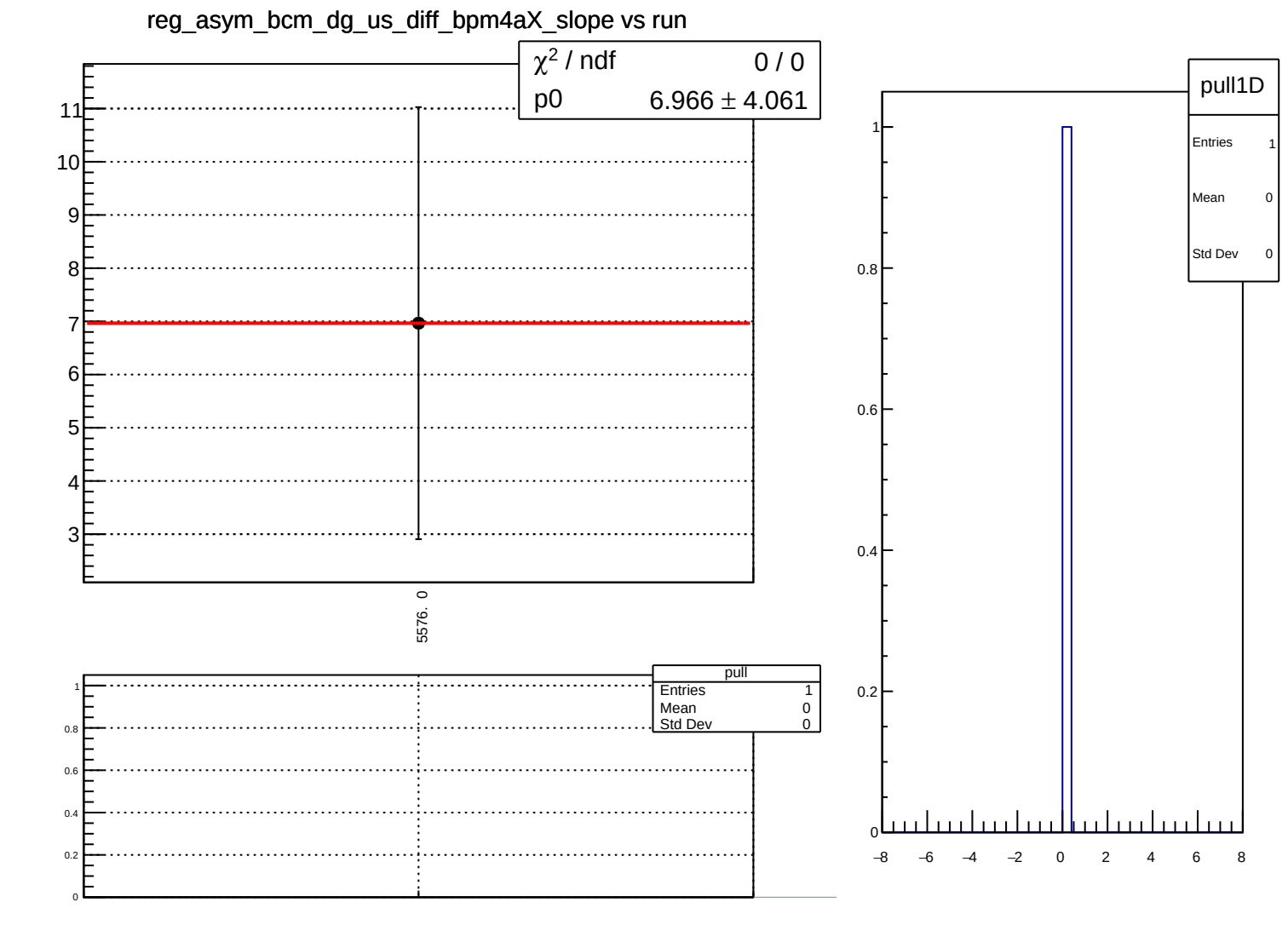

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 5.047e−32 / 0
p0 6.788 ± 3.953
11
10
9
8
7
6
5
4
3
5576. 0
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.247e−16
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

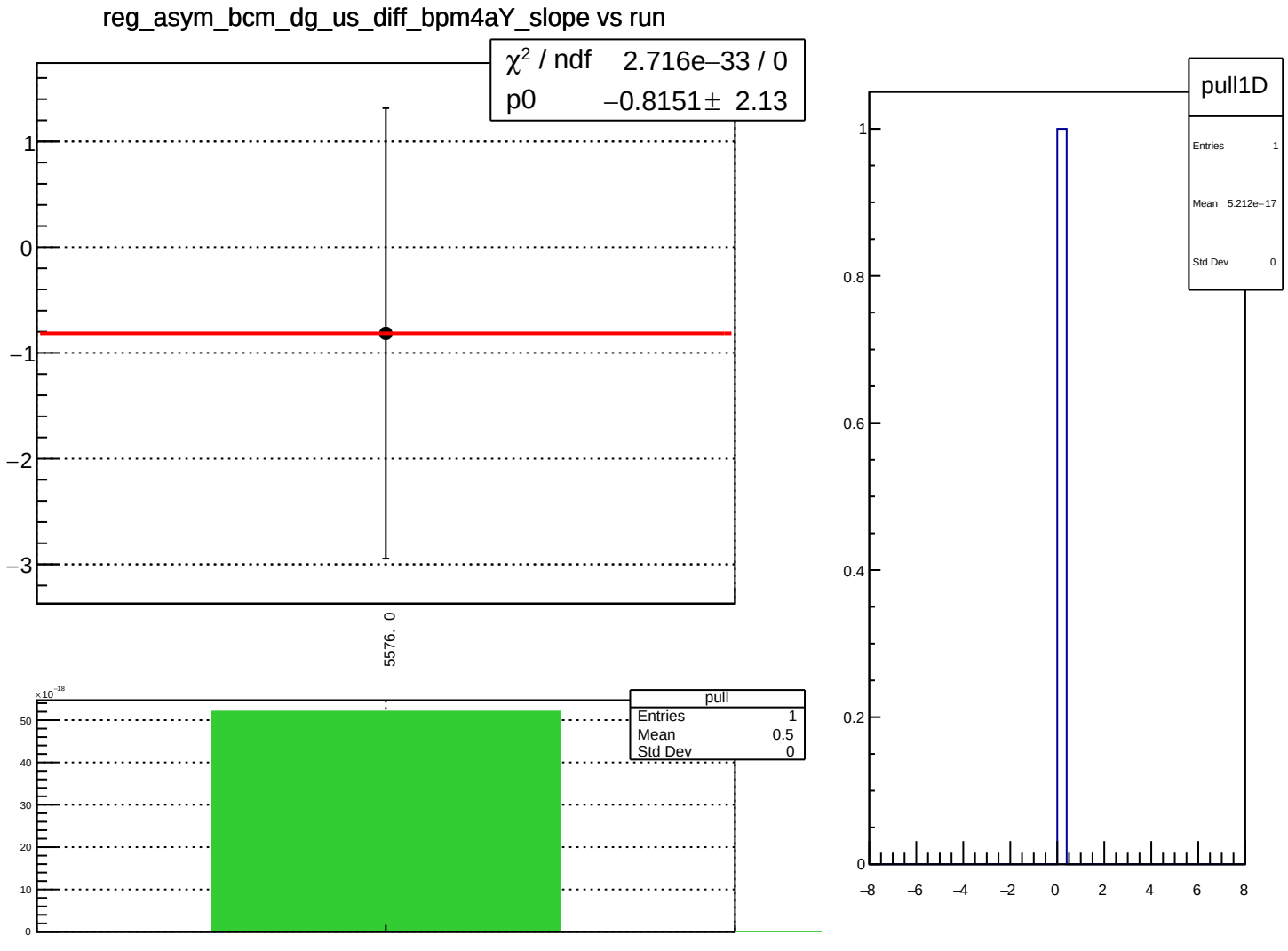

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 7.164e−34 / 0
p0 −0.3813 ± 2.074
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5576. 0
×10⁻¹⁸
0
−5
−10
−15
−20
−25
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −2.677e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

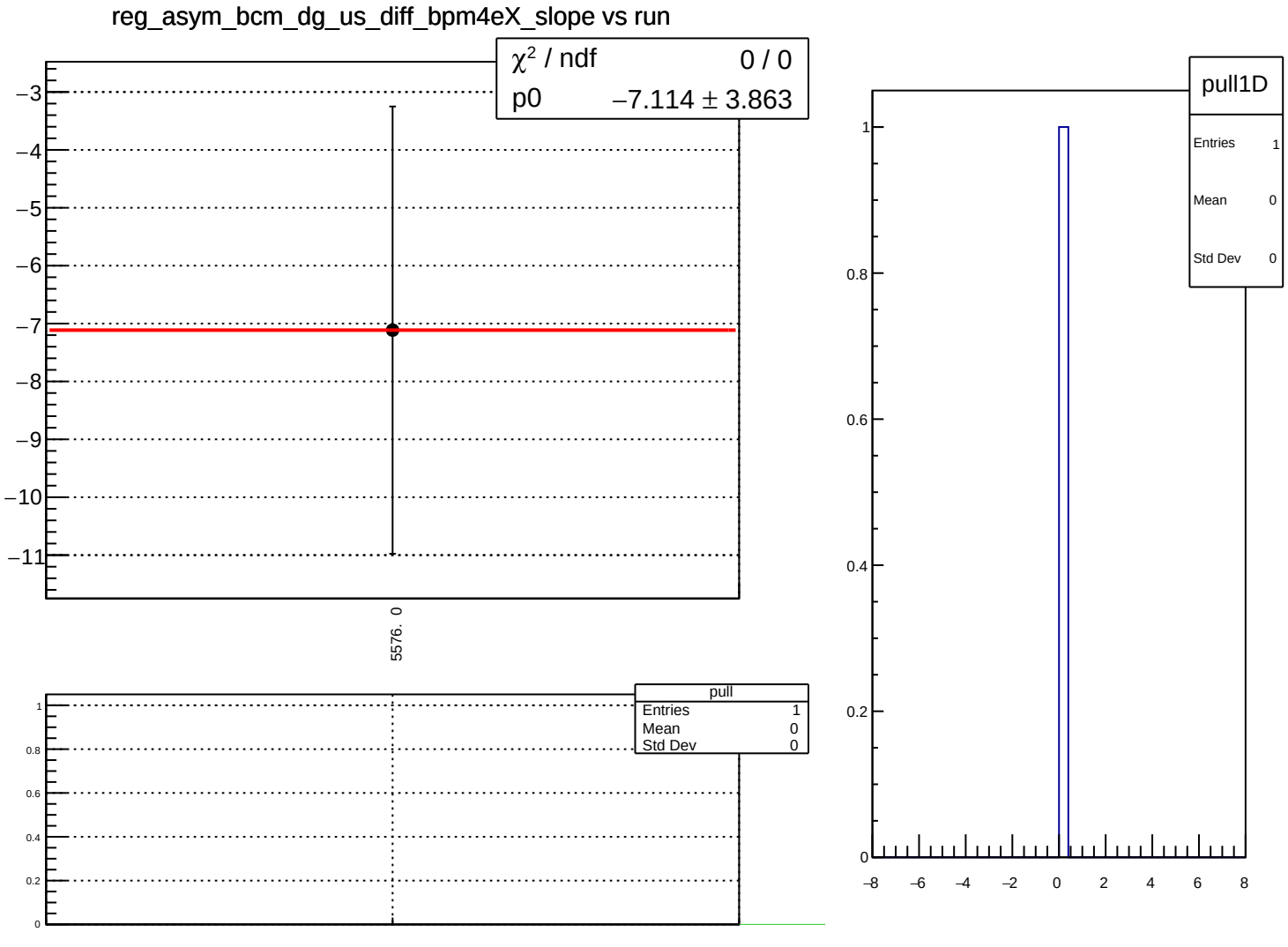

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −6.974 ± 3.761
−3
−4
−5
−6
−7
−8
−9
−10
−11
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

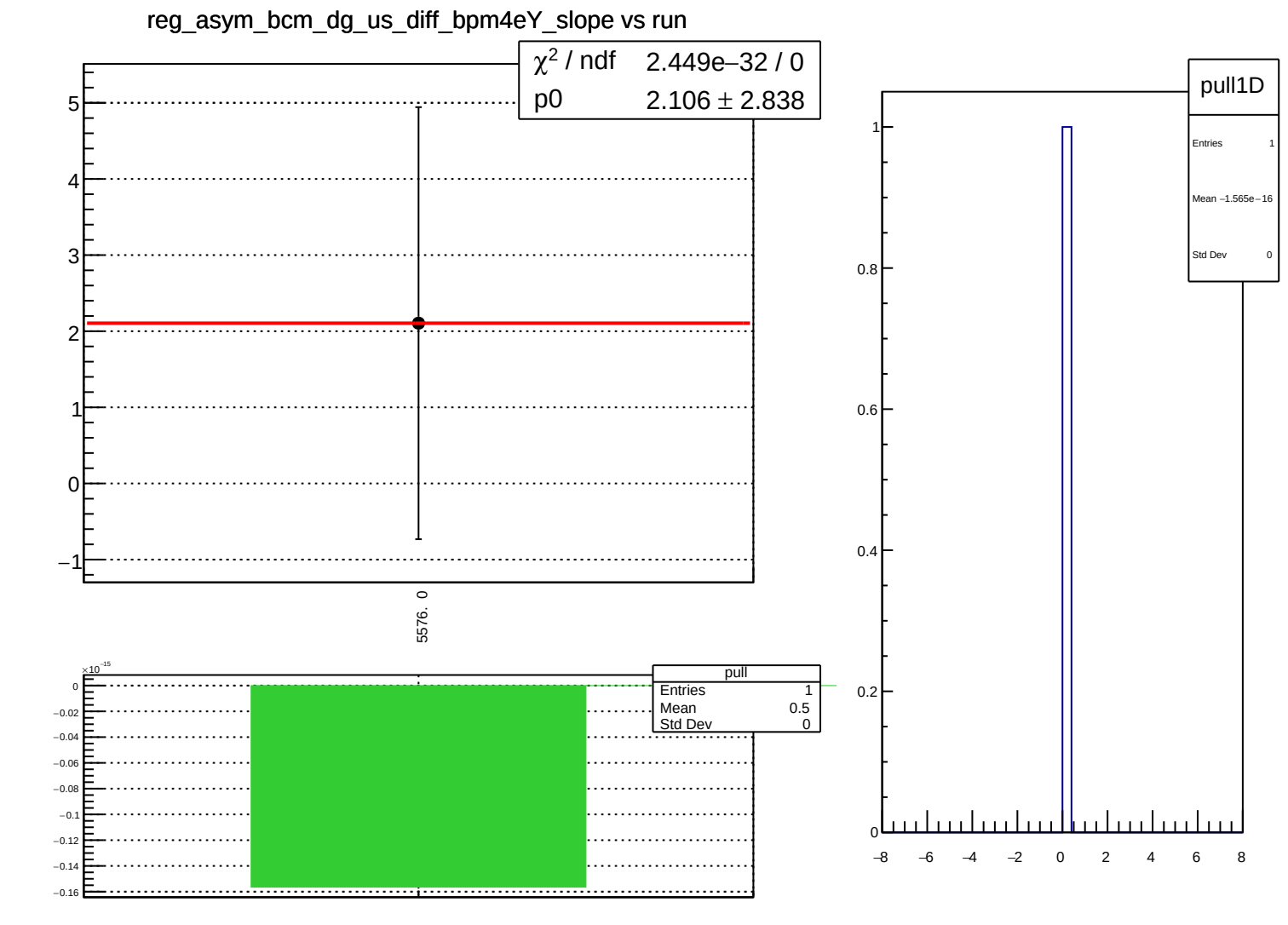

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 6.458e−33 / 0
p0 1.601 ± 2.763
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −8.036e−17
Std Dev 0

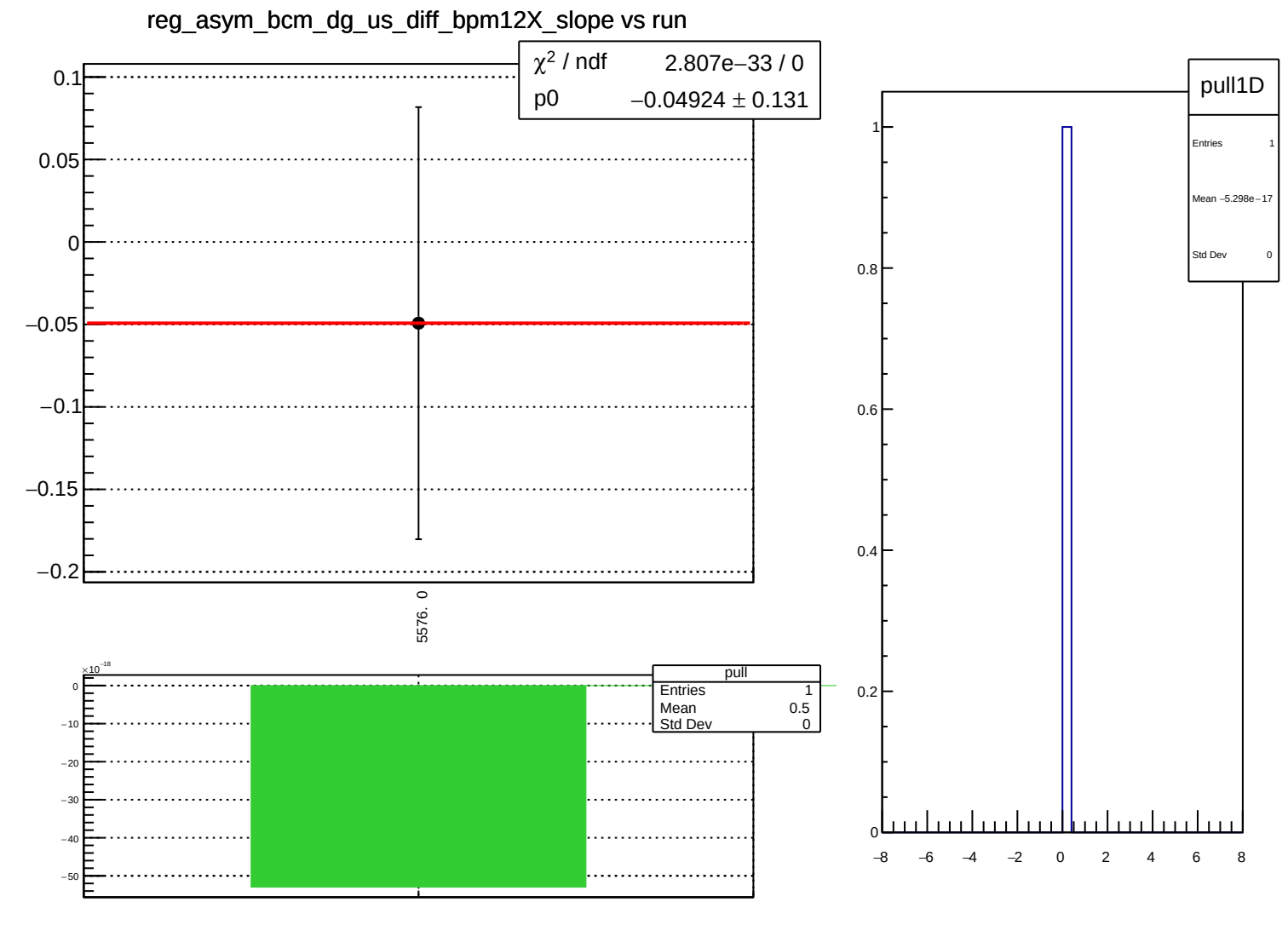

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 0 / 0
p0 −0.00829 ± 0.1275
0.1
0.05
0
−0.05
−0.1
−0.15
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 0 / 0
p0 6.966 ± 4.061
11
10
9
8
7
6
5
4
3
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 2.716e−33 / 0
p0 −0.8151 ± 2.13
1
0
−1
−2
−3
5576. 0
×10⁻¹⁸
50
40
30
20
10
0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean 5.212e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 0 / 0
p0 −7.114 ± 3.863
−3
−4
−5
−6
−7
−8
−9
−10
−11
5576. 0
pull
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 1
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 2.449e−32 / 0
p0 2.106 ± 2.838
5576. 0
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −1.565e−16
Std Dev 0


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 2.807e−33 / 0
p0 −0.04924 ± 0.131
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5576. 0
×10⁻¹⁸
0
−10
−20
−30
−40
−50
pull
Entries 1
Mean 0.5
Std Dev 0
pull1D
Entries 1
Mean −5.298e−17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8