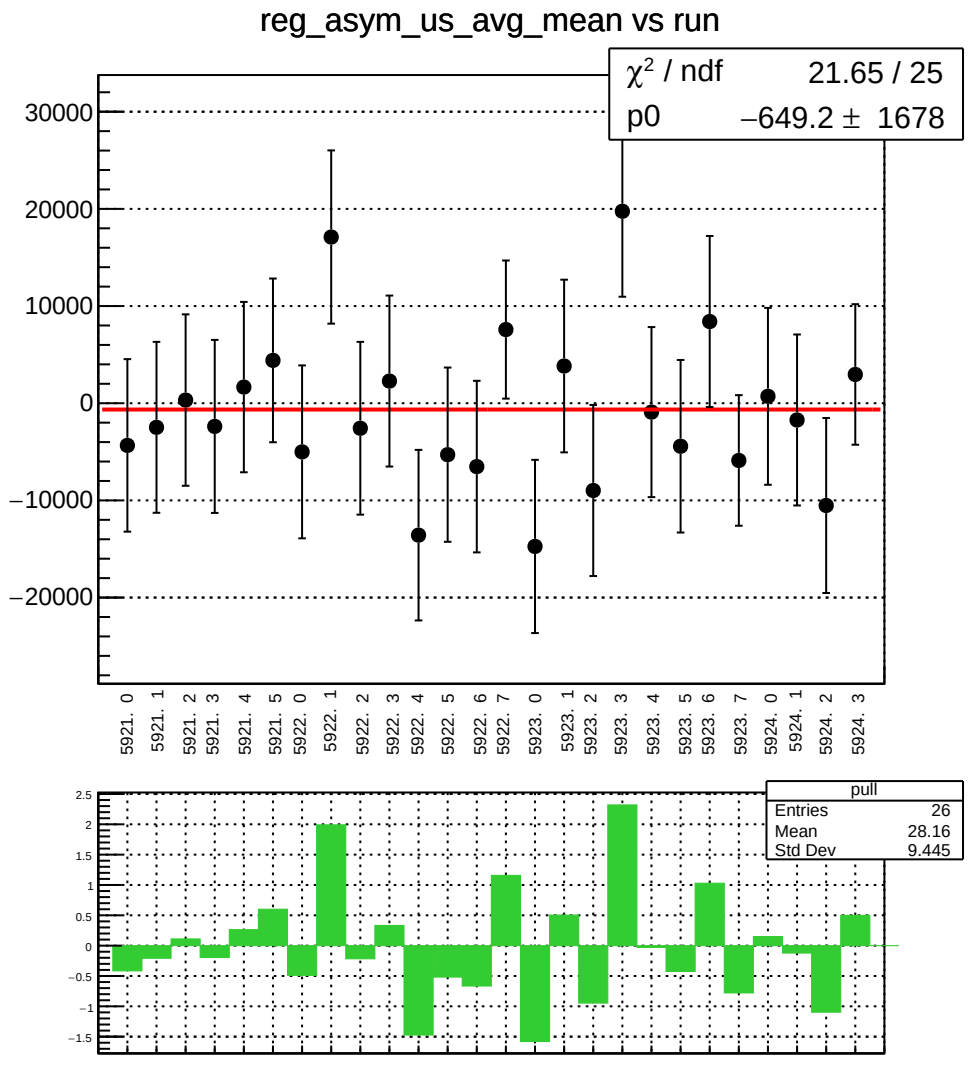
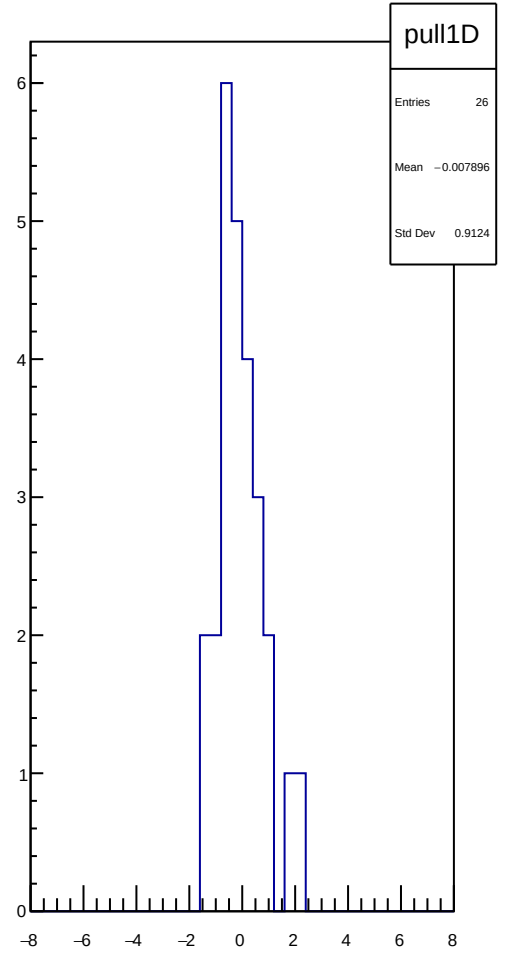
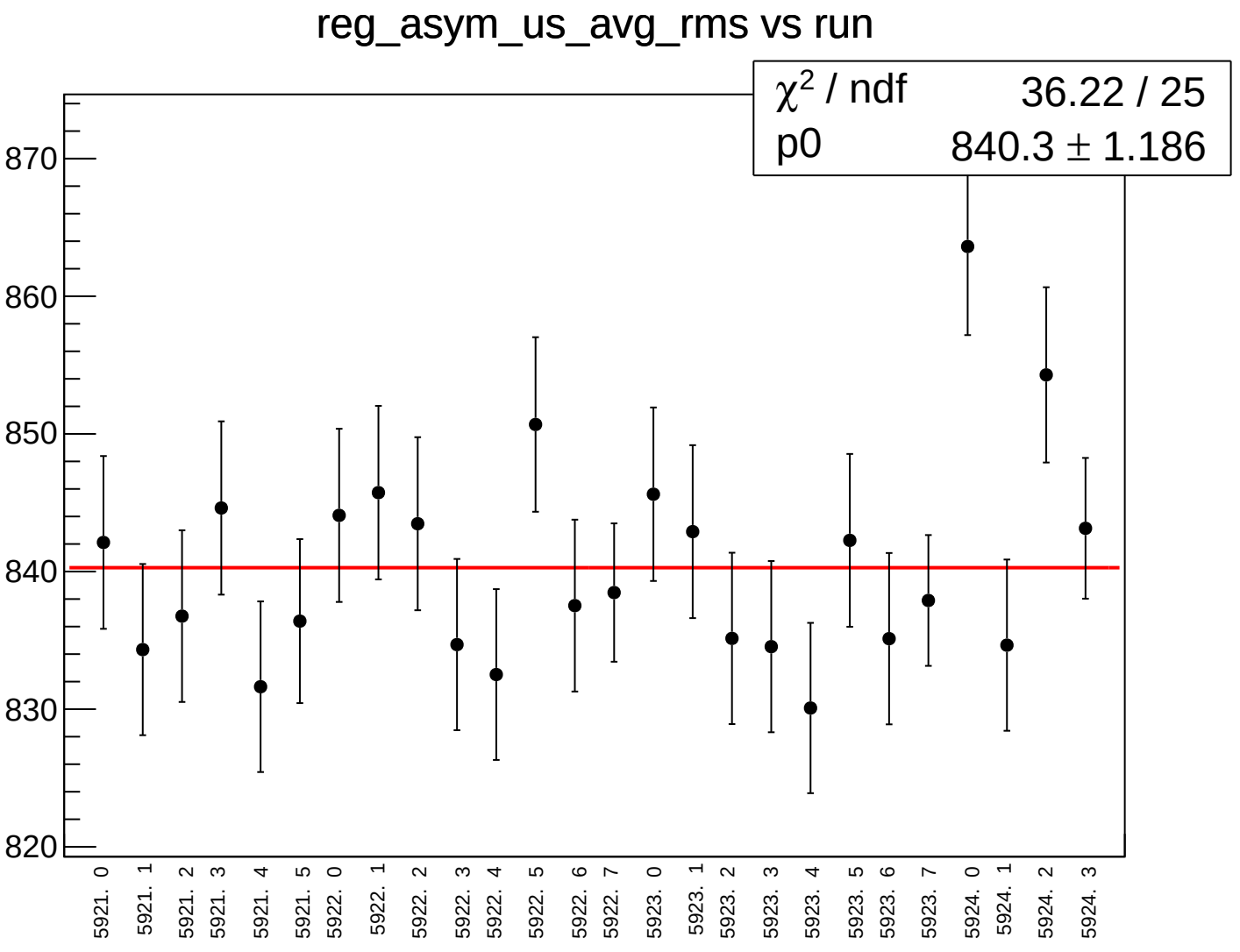
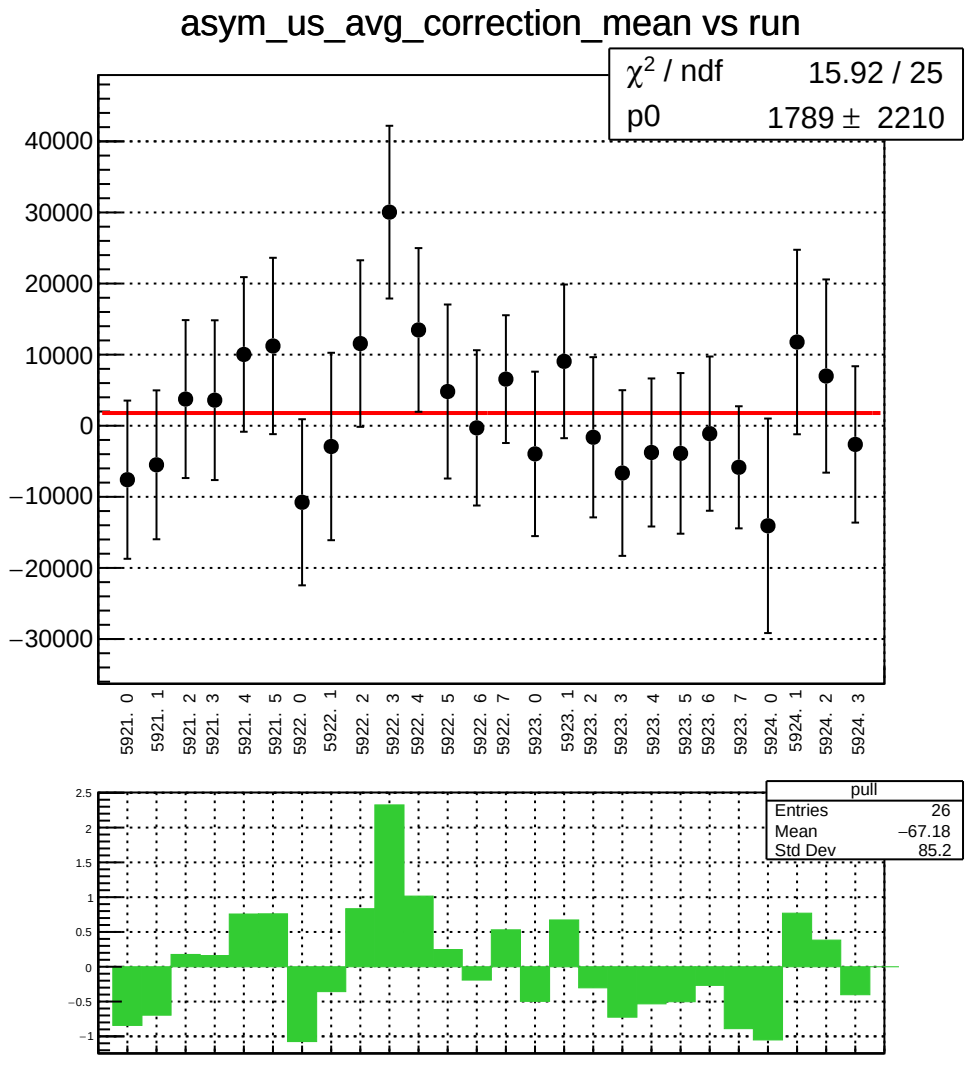
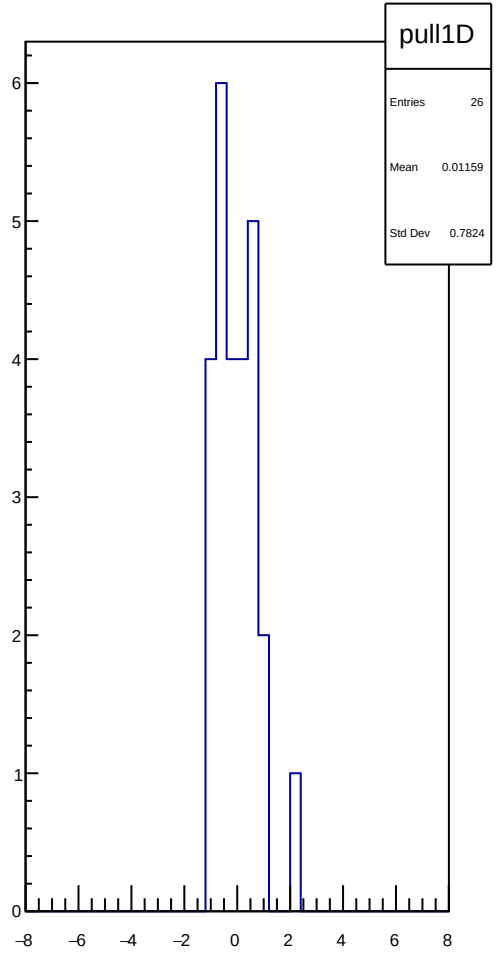
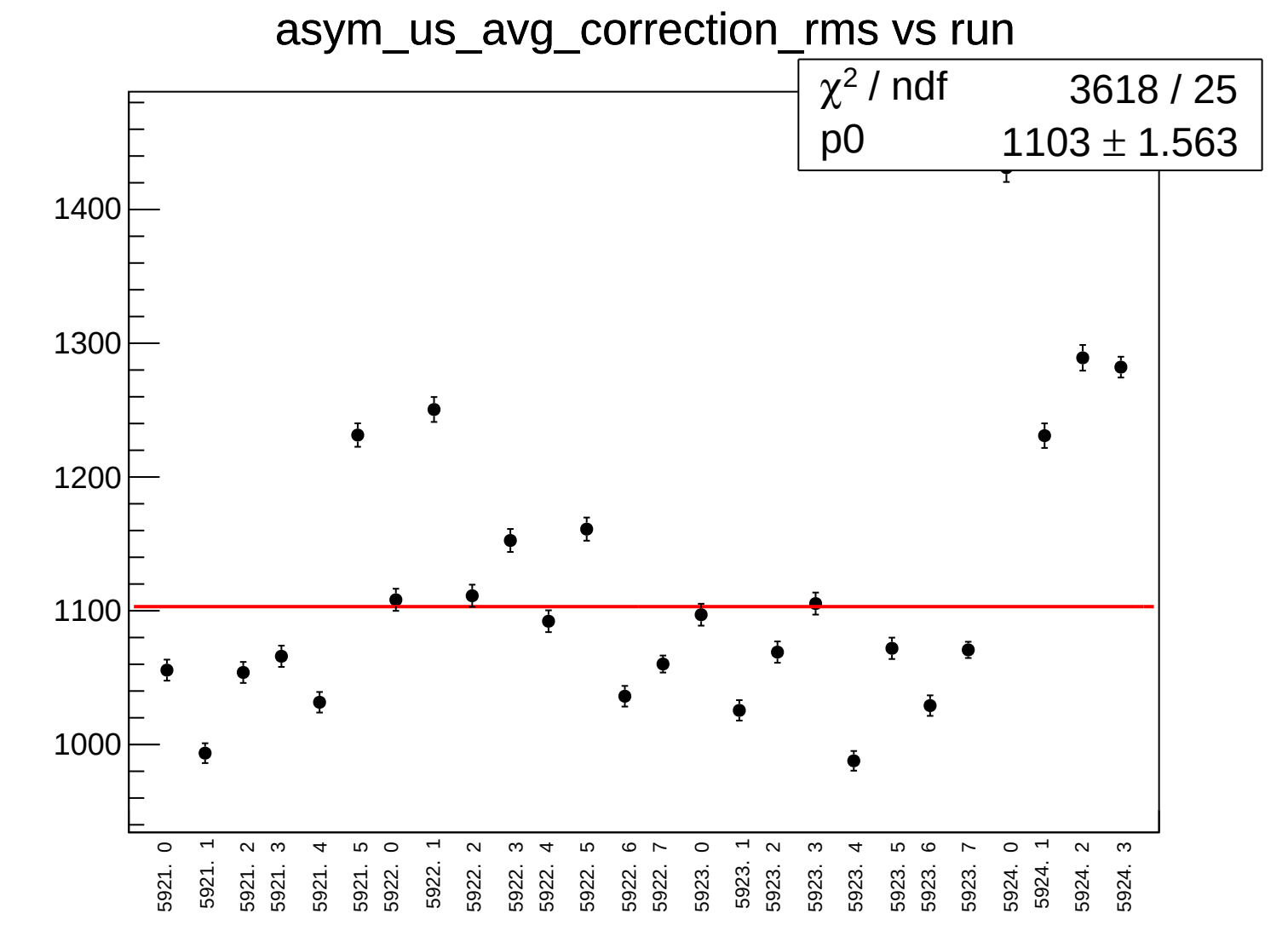

reg_asym_us_avg_mean vs run
χ² / ndf 21.65 / 25
p0 −649.2 ± 1678
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 28.16
Std Dev 9.445
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

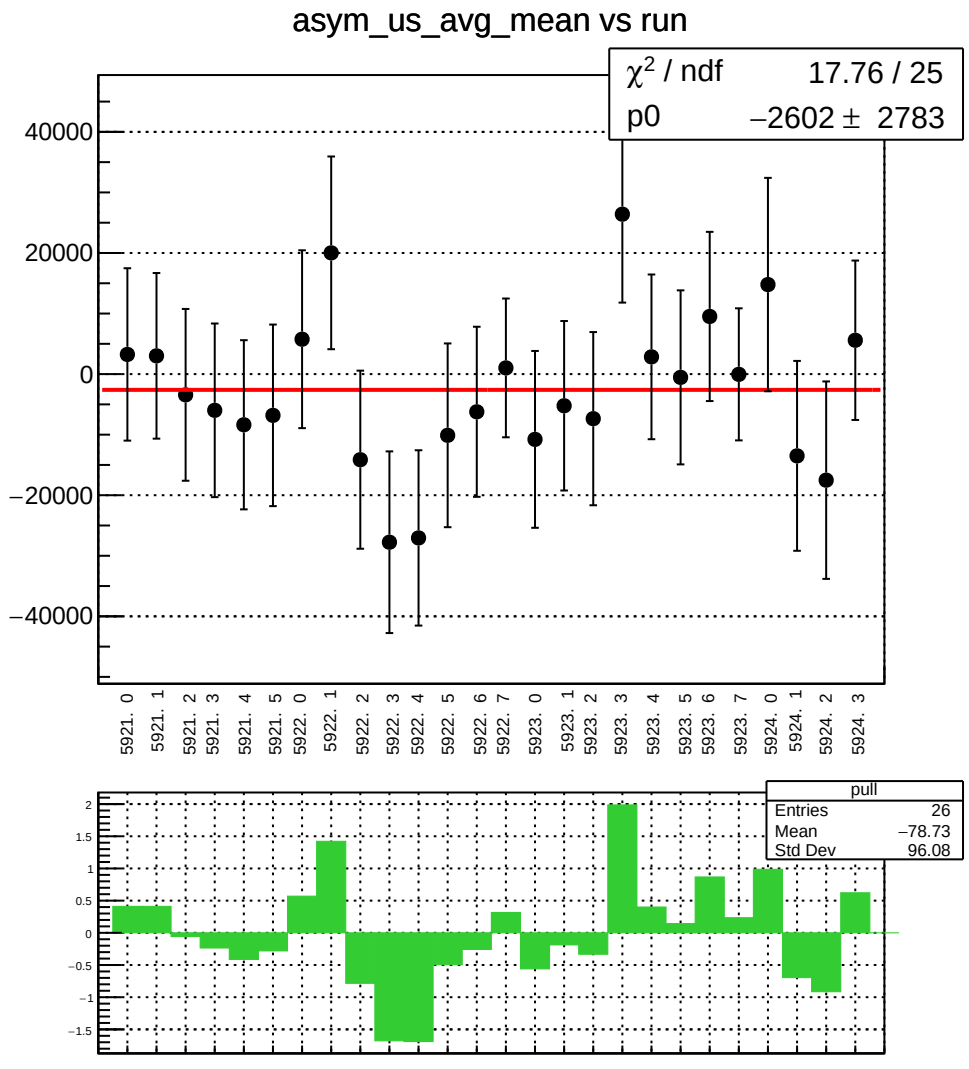

pull1D
Entries 26
Mean −0.007896
Std Dev 0.9124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

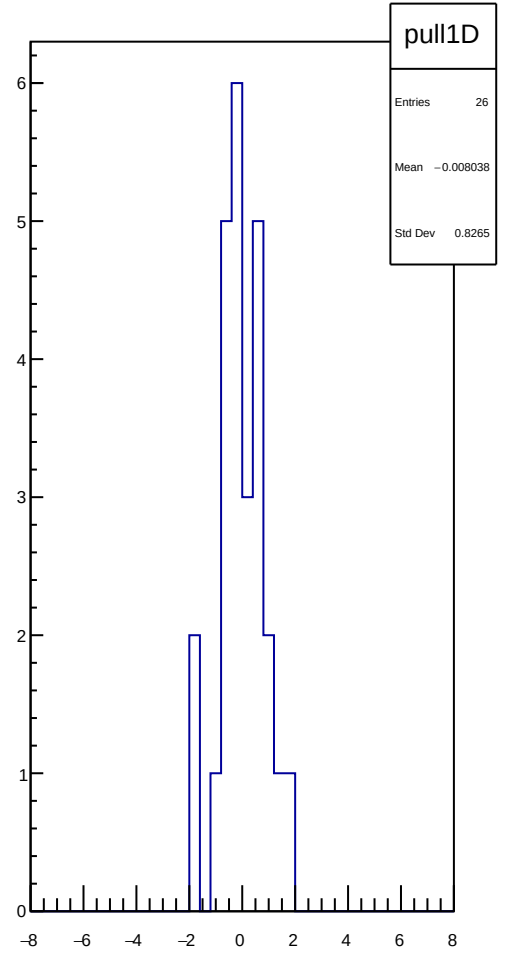

reg_asym_us_avg_rms vs run
χ² / ndf 36.22 / 25
p0 840.3 ± 1.186
870
860
850
840
830
820
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

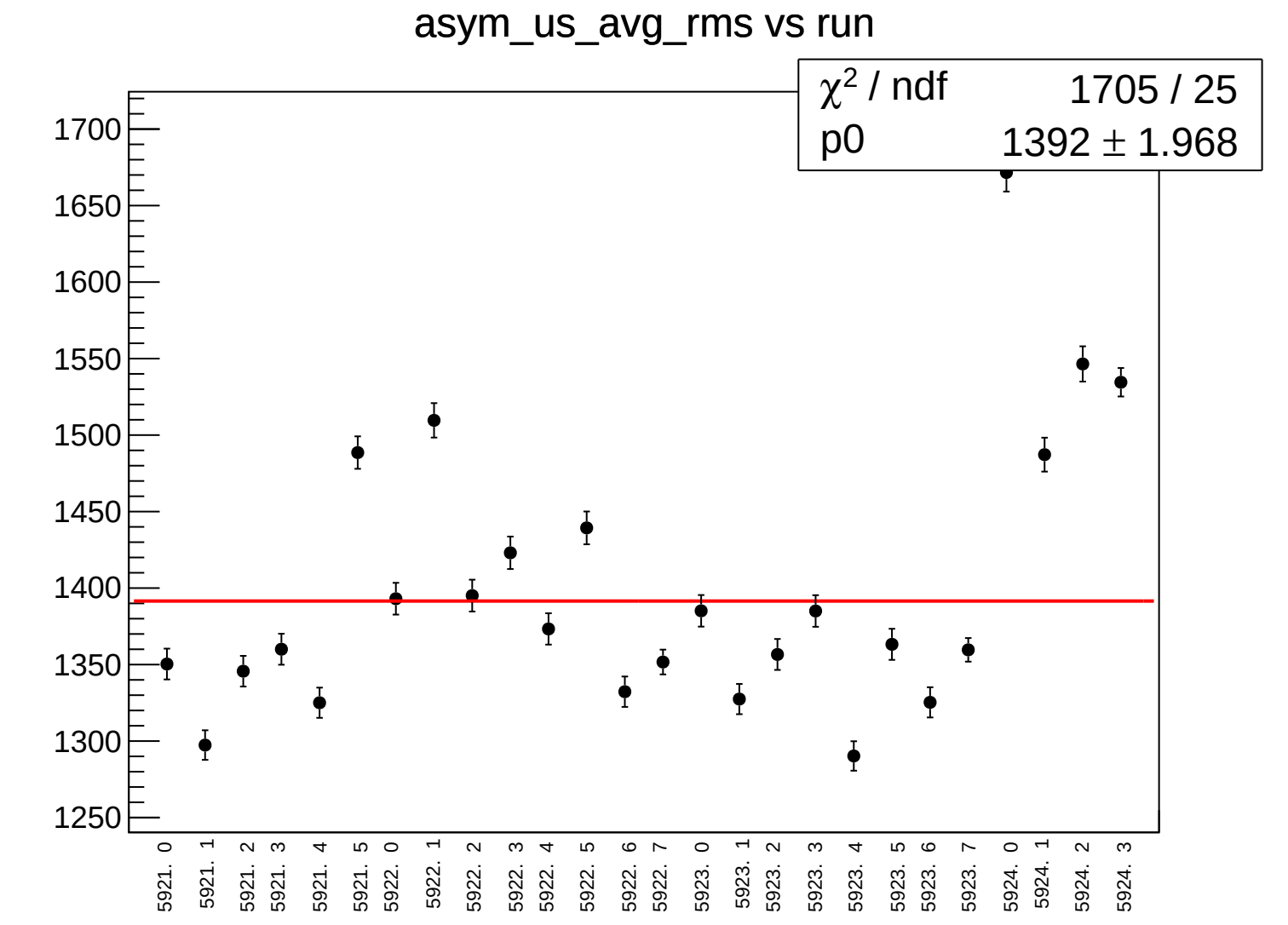

asym_us_avg_correction_mean vs run
χ² / ndf 15.92 / 25
p0 1789 ± 2210
40000
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −67.18
Std Dev 85.2
2.5
2
1.5
1
0.5
0
−0.5
−1

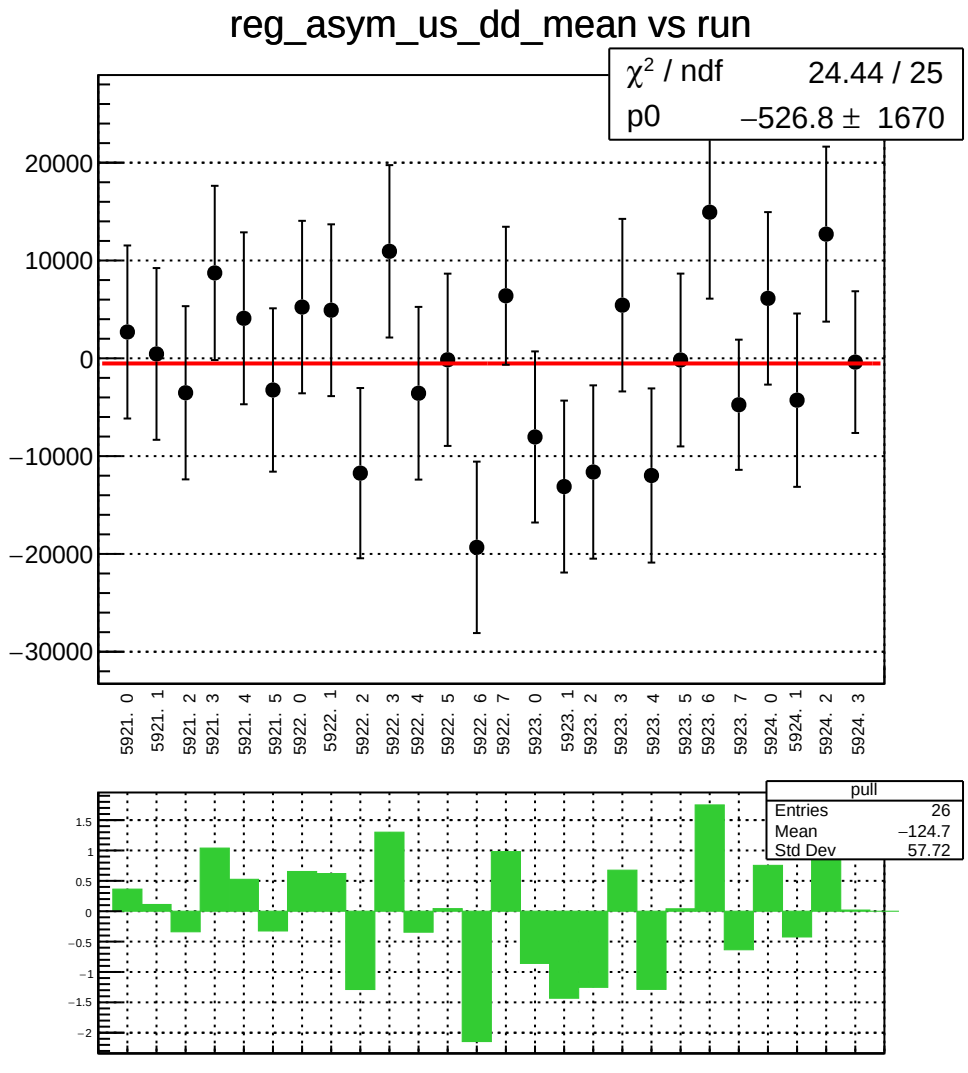

pull1D
Entries 26
Mean 0.01159
Std Dev 0.7824
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

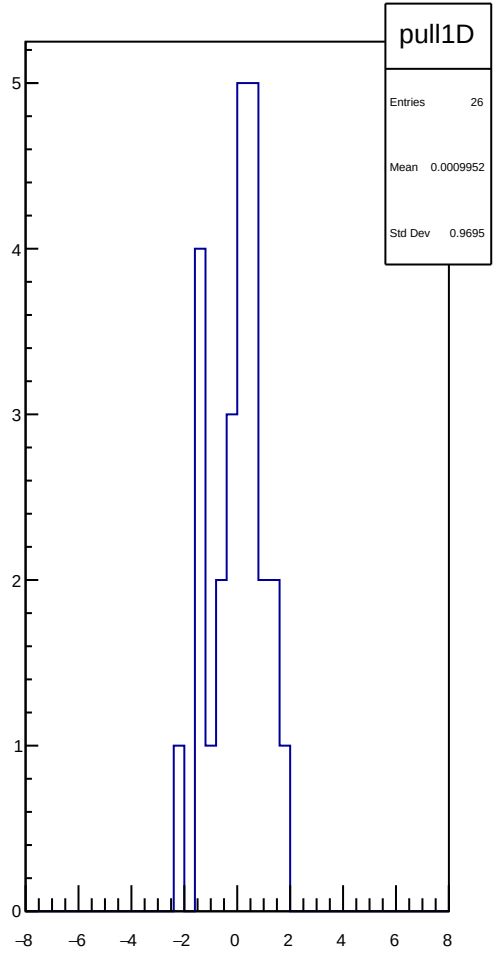

asym_us_avg_correction_rms vs run
χ² / ndf 3618 / 25
p0 1103 ± 1.563
1400
1300
1200
1100
1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

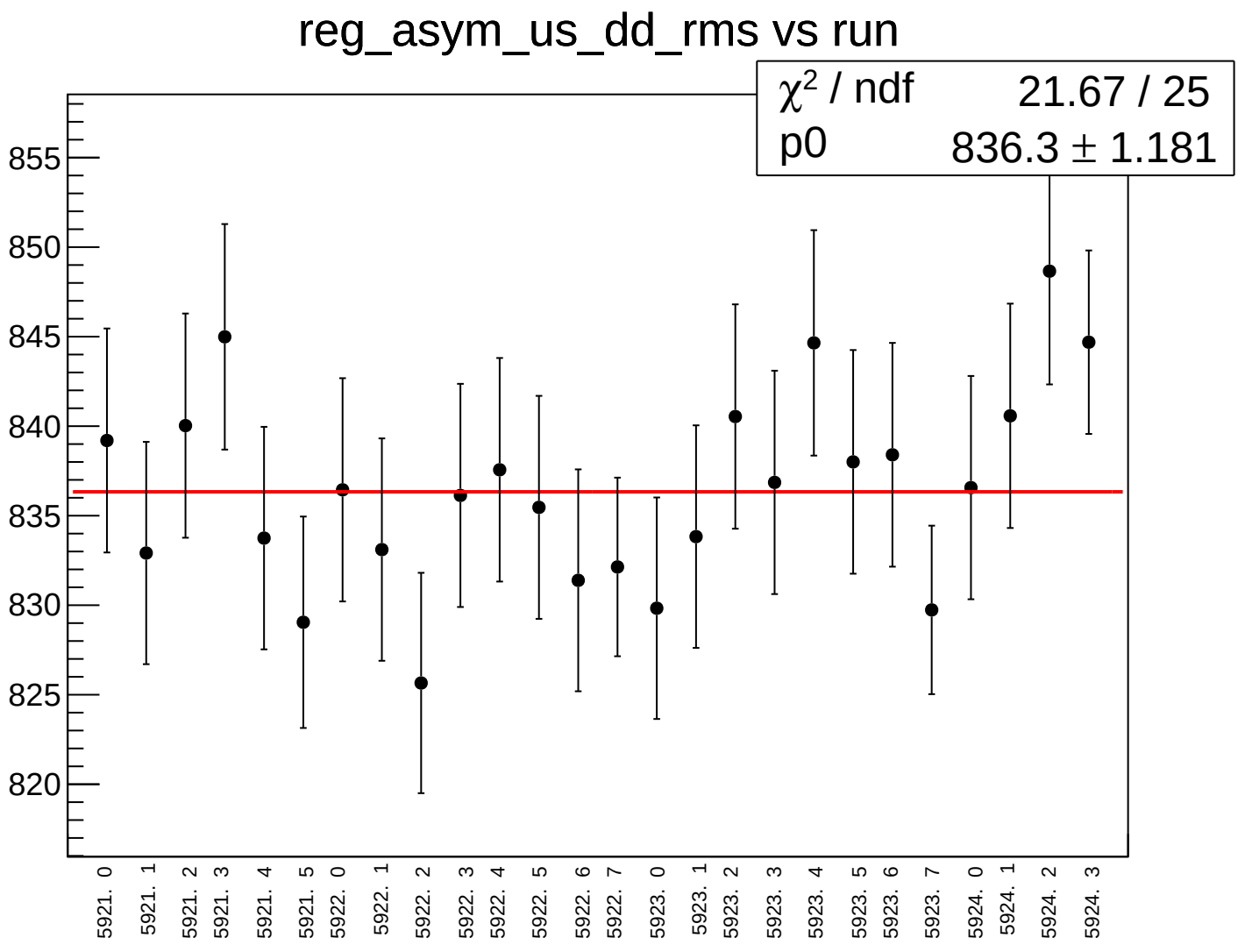

asym_us_avg_mean vs run
χ² / ndf 17.76 / 25
p0 −2602 ± 2783
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −78.73
Std Dev 96.08
2
1.5
1
0.5
0
−0.5
−1
−1.5

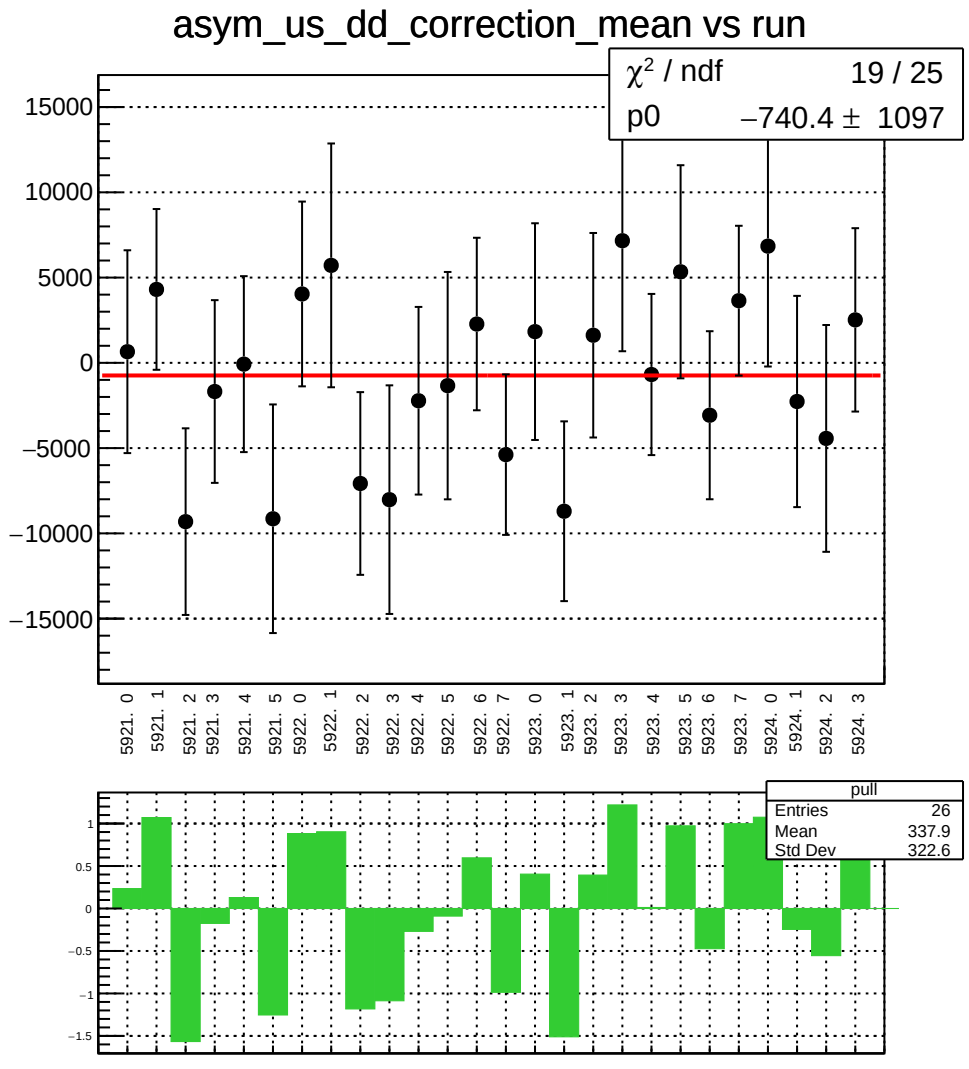

pull1D
Entries 26
Mean −0.008038
Std Dev 0.8265
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

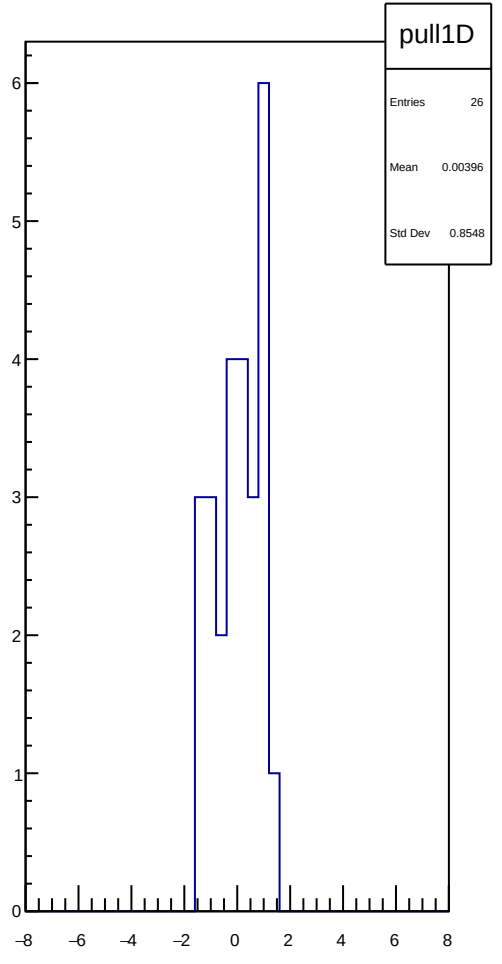

asym_us_avg_rms vs run
χ² / ndf 1705 / 25
p0 1392 ± 1.968
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

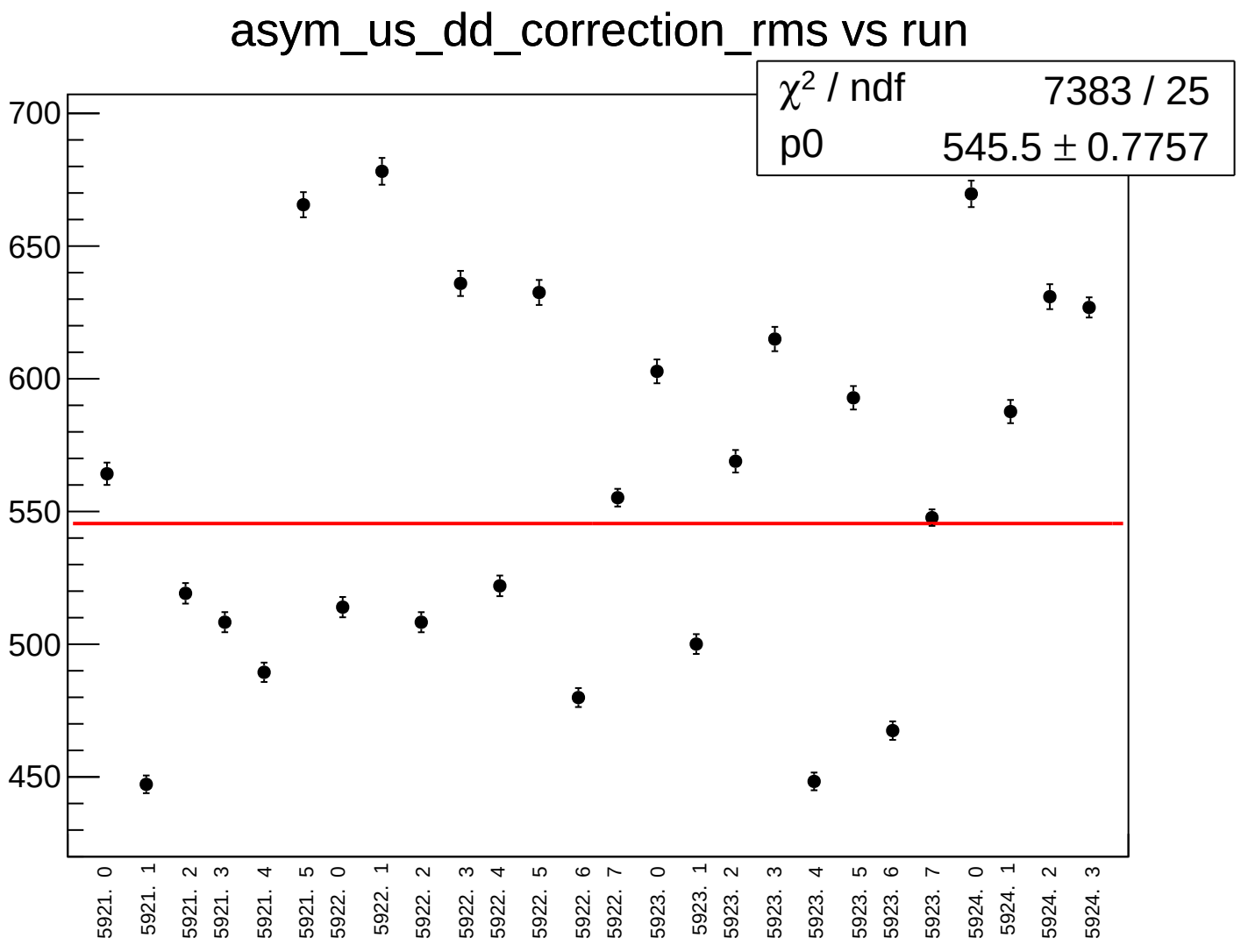

reg_asym_us_dd_mean vs run
χ² / ndf 24.44 / 25
p0 −526.8 ± 1670
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −124.7
Std Dev 57.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2

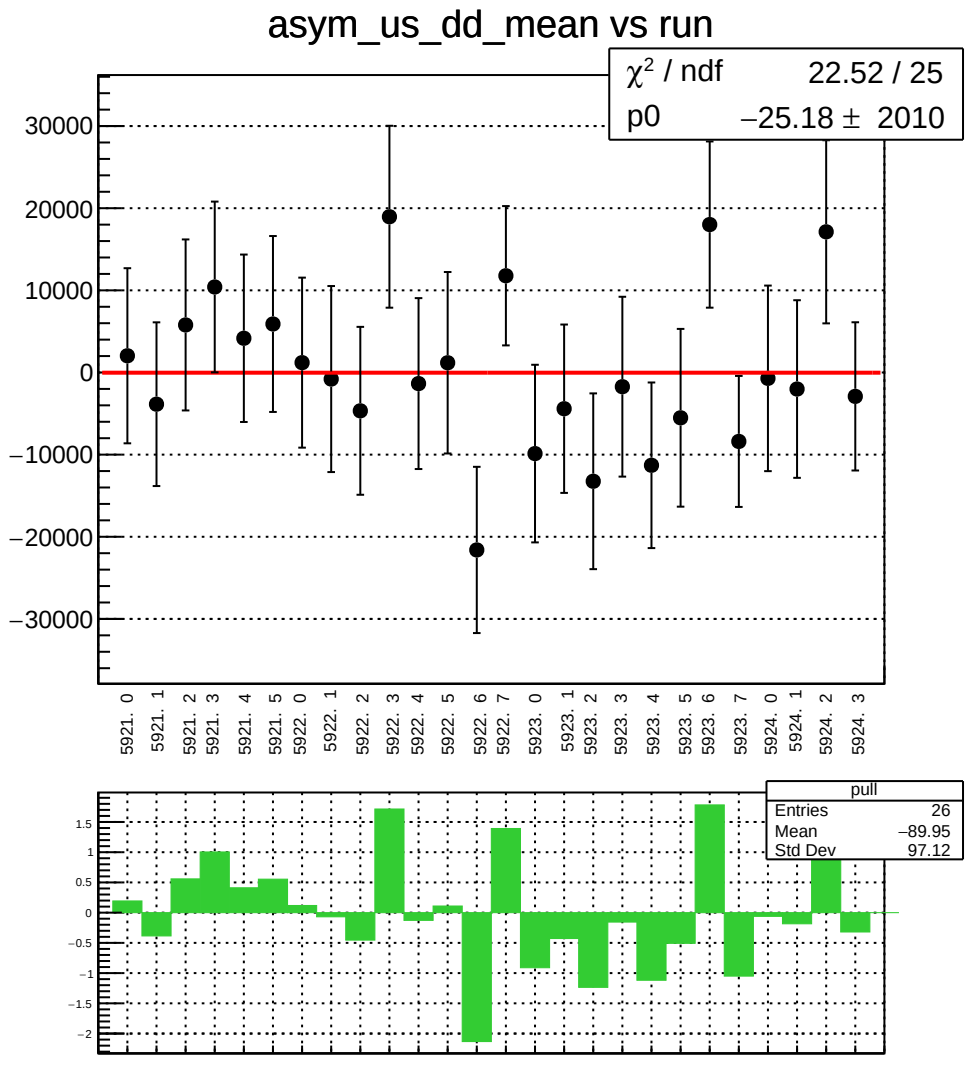

pull1D
Entries 26
Mean 0.0009952
Std Dev 0.9695
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

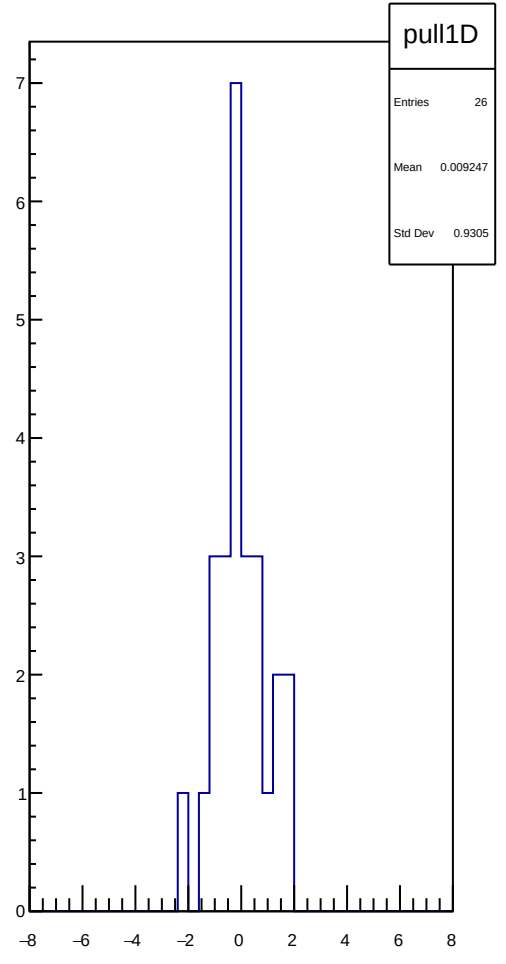

reg_asym_us_dd_rms vs run
χ² / ndf 21.67 / 25
p0 836.3 ± 1.181
855
850
845
840
835
830
825
820
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

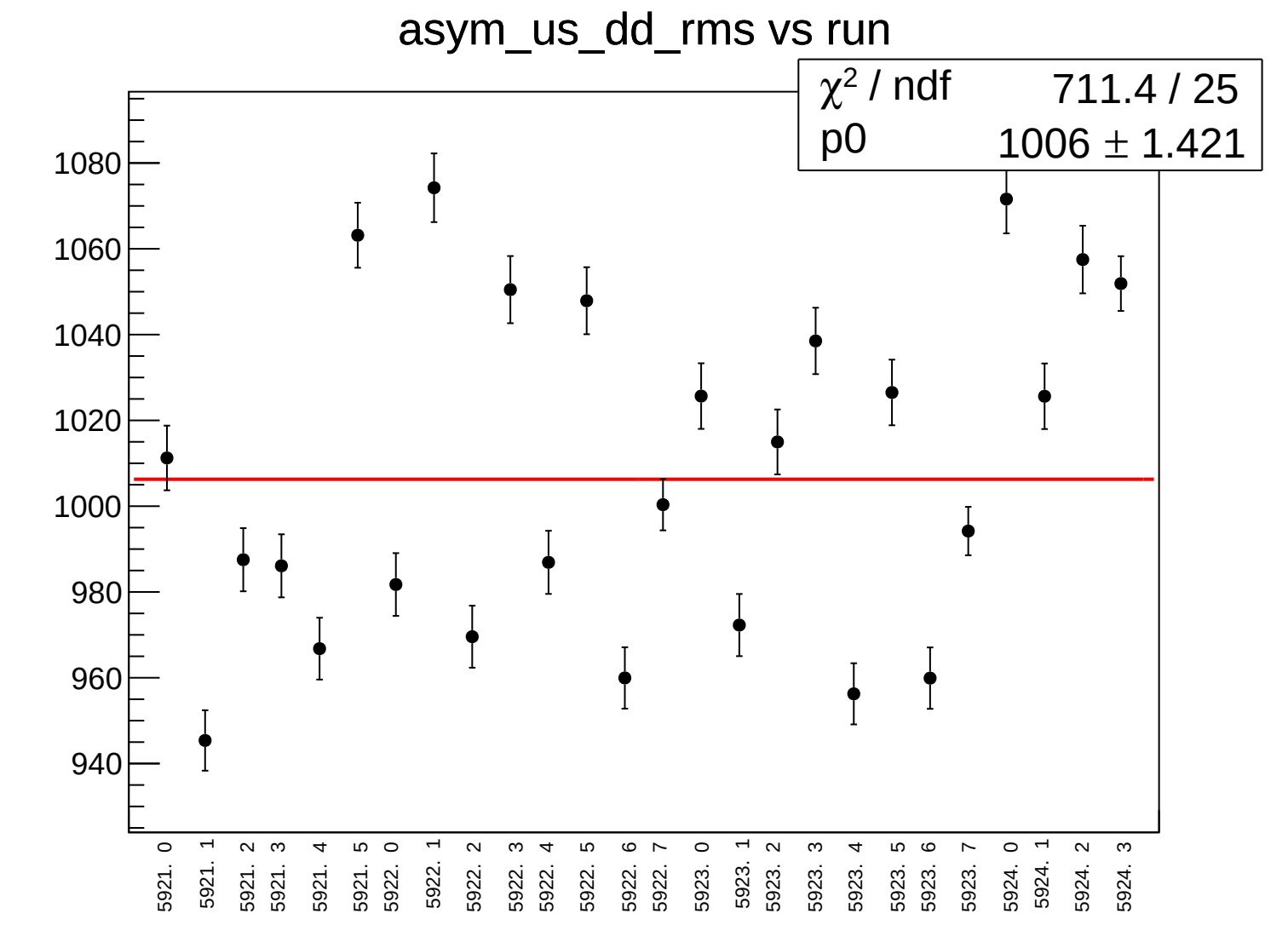

asym_us_dd_correction_mean vs run
χ² / ndf 19 / 25
p0 −740.4 ± 1097
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 337.9
Std Dev 322.6
1
0.5
0
−0.5
−1
−1.5

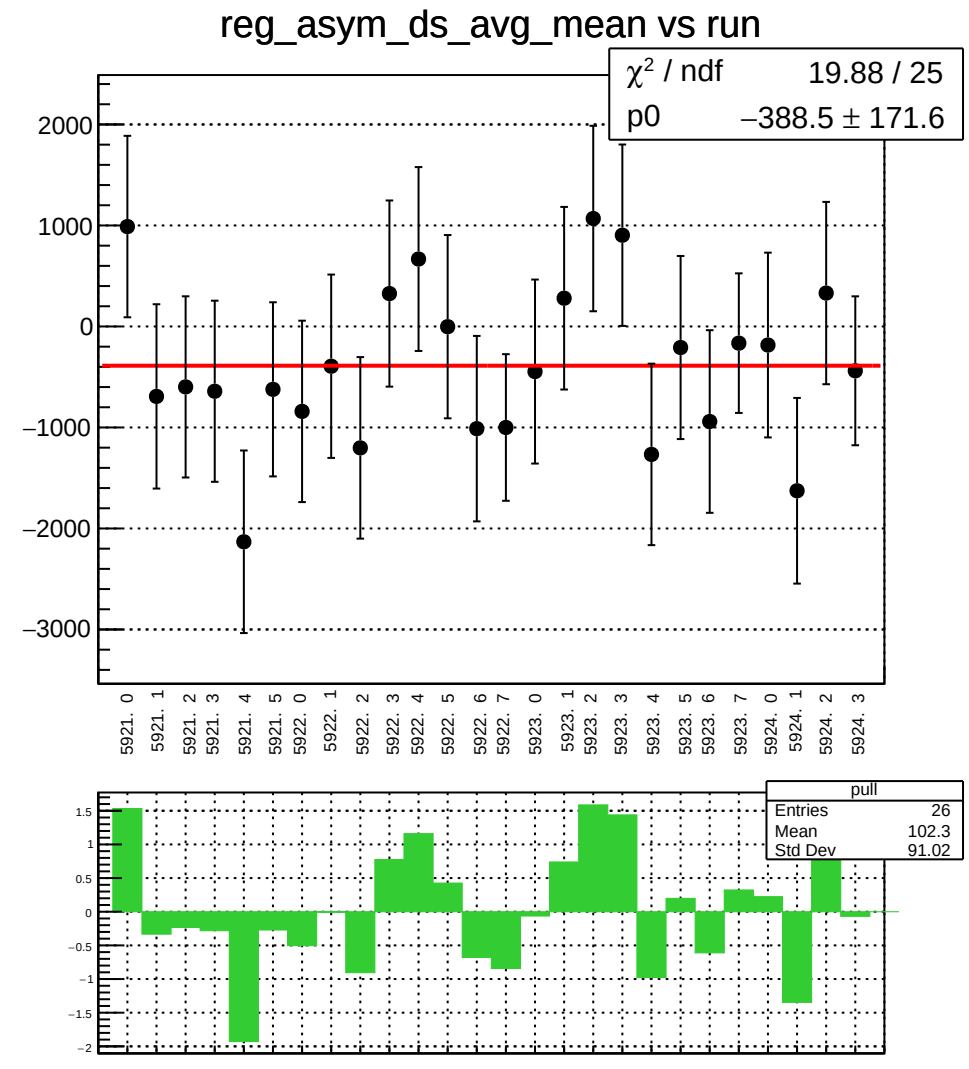

pull1D
Entries 26
Mean 0.00396
Std Dev 0.8548
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

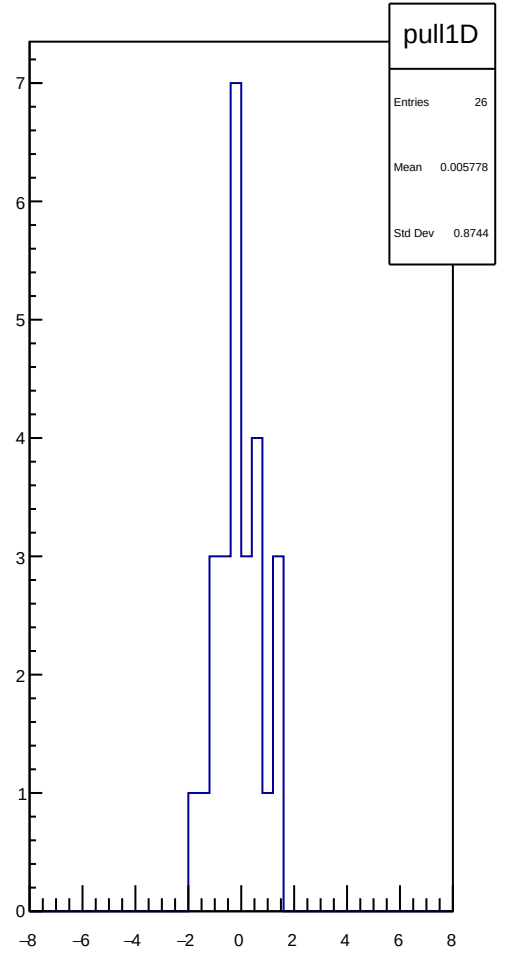

asym_us_dd_correction_rms vs run
χ² / ndf 7383 / 25
p0 545.5 ± 0.7757
700
650
600
550
500
450
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

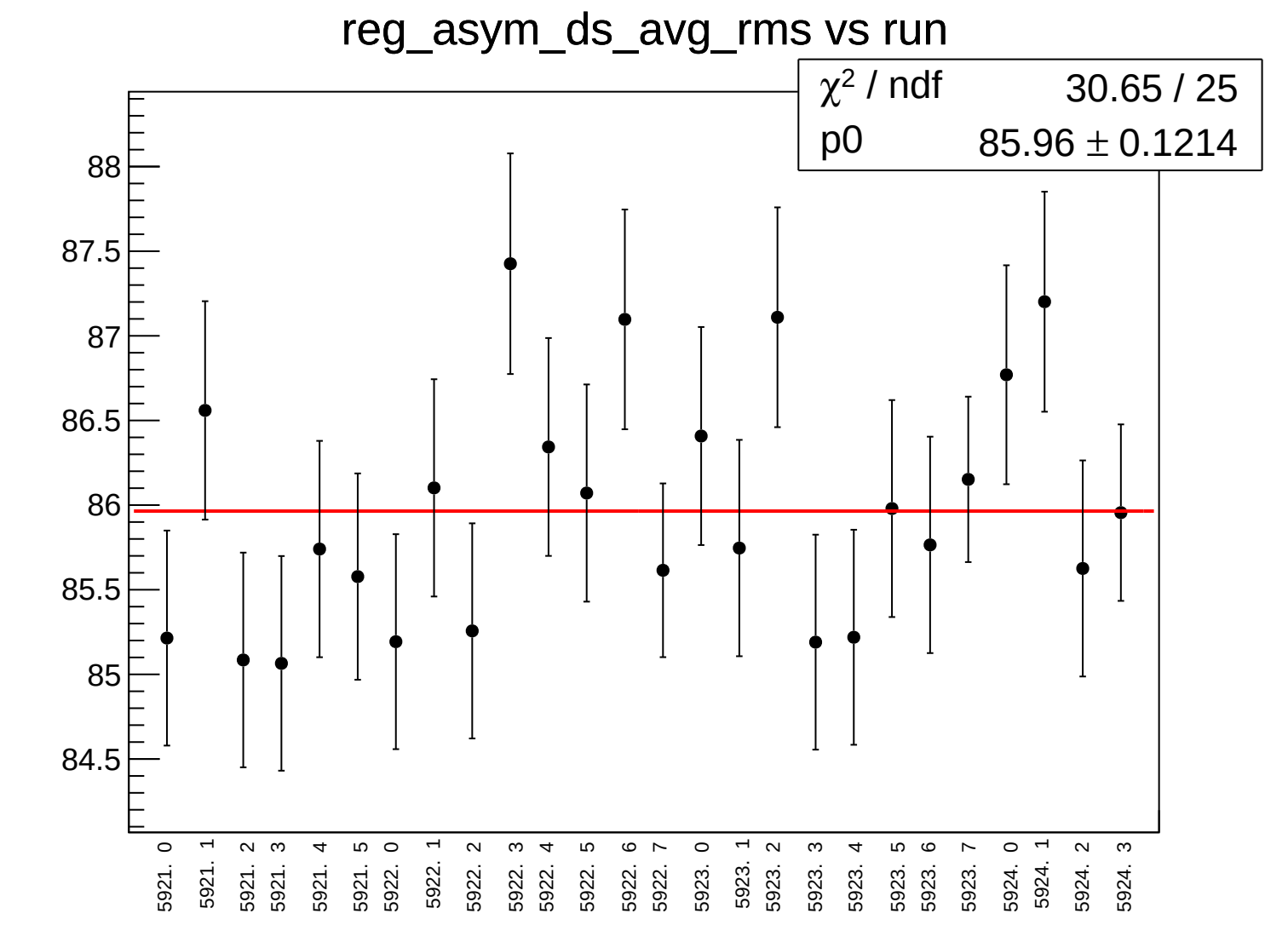

asym_us_dd_mean vs run
χ² / ndf 22.52 / 25
p0 −25.18 ± 2010
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −89.95
Std Dev 97.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

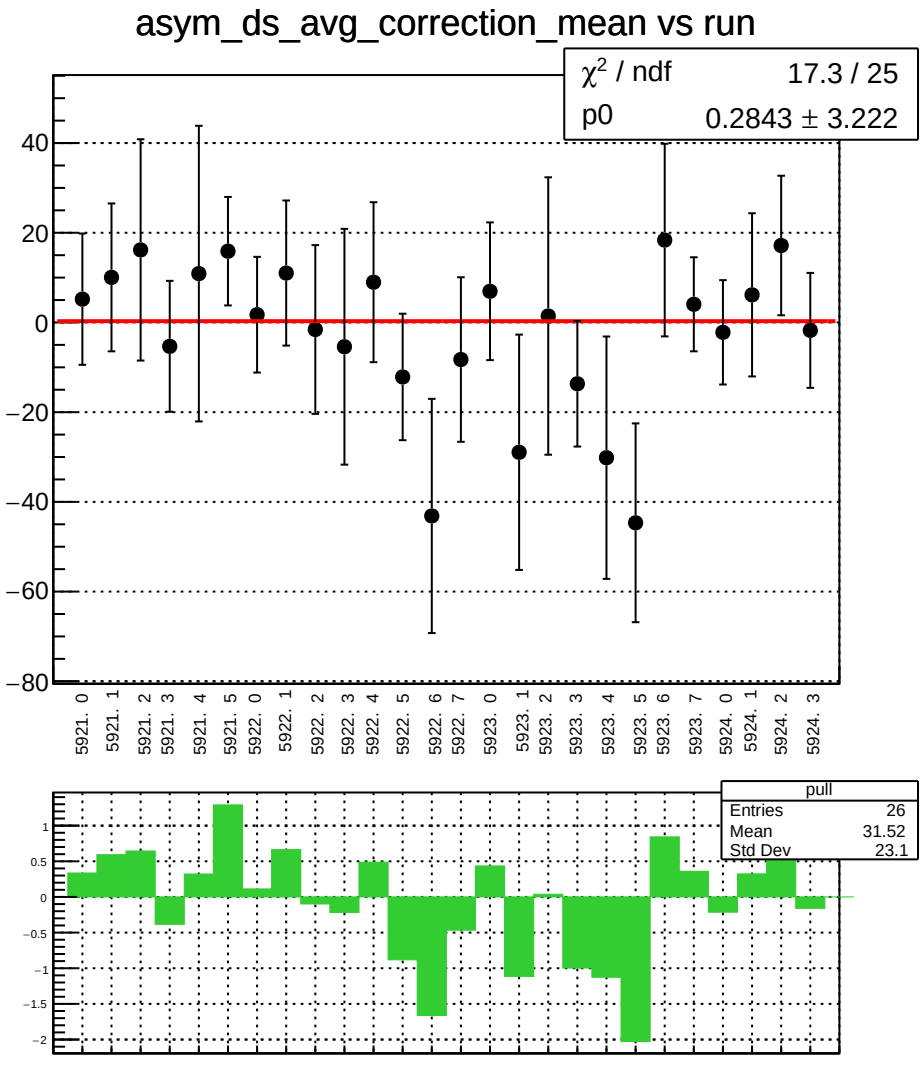

pull1D
Entries 26
Mean 0.009247
Std Dev 0.9305
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

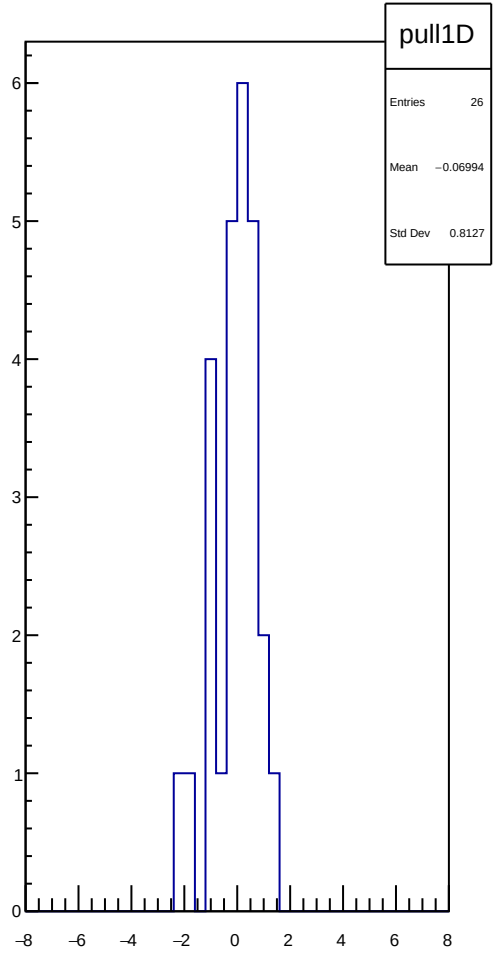

asym_us_dd_rms vs run
χ² / ndf 711.4 / 25
p0 1006 ± 1.421
1080
1060
1040
1020
1000
980
960
940
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

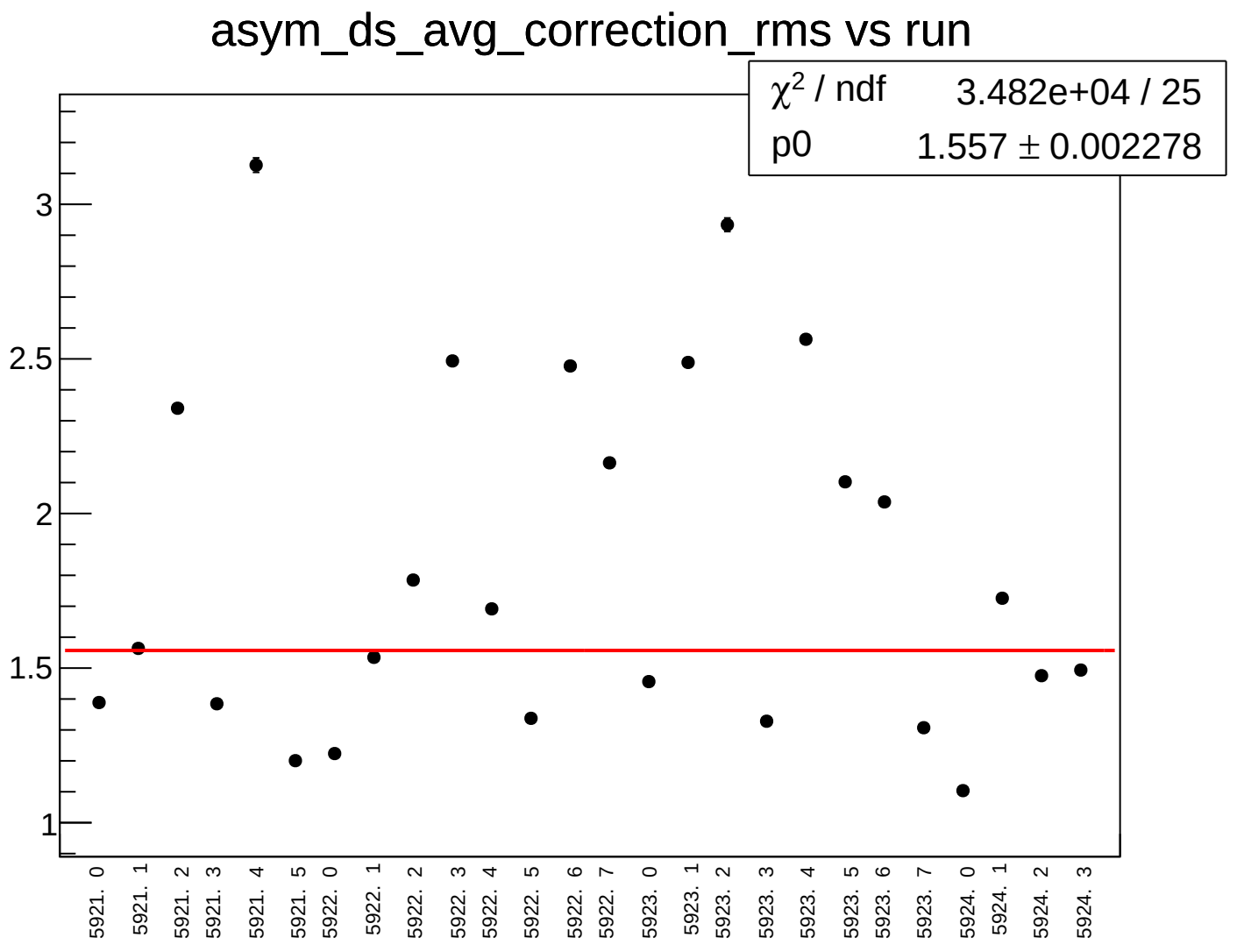

reg_asym_ds_avg_mean vs run
χ² / ndf 19.88 / 25
p0 −388.5 ± 171.6
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 102.3
Std Dev 91.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2

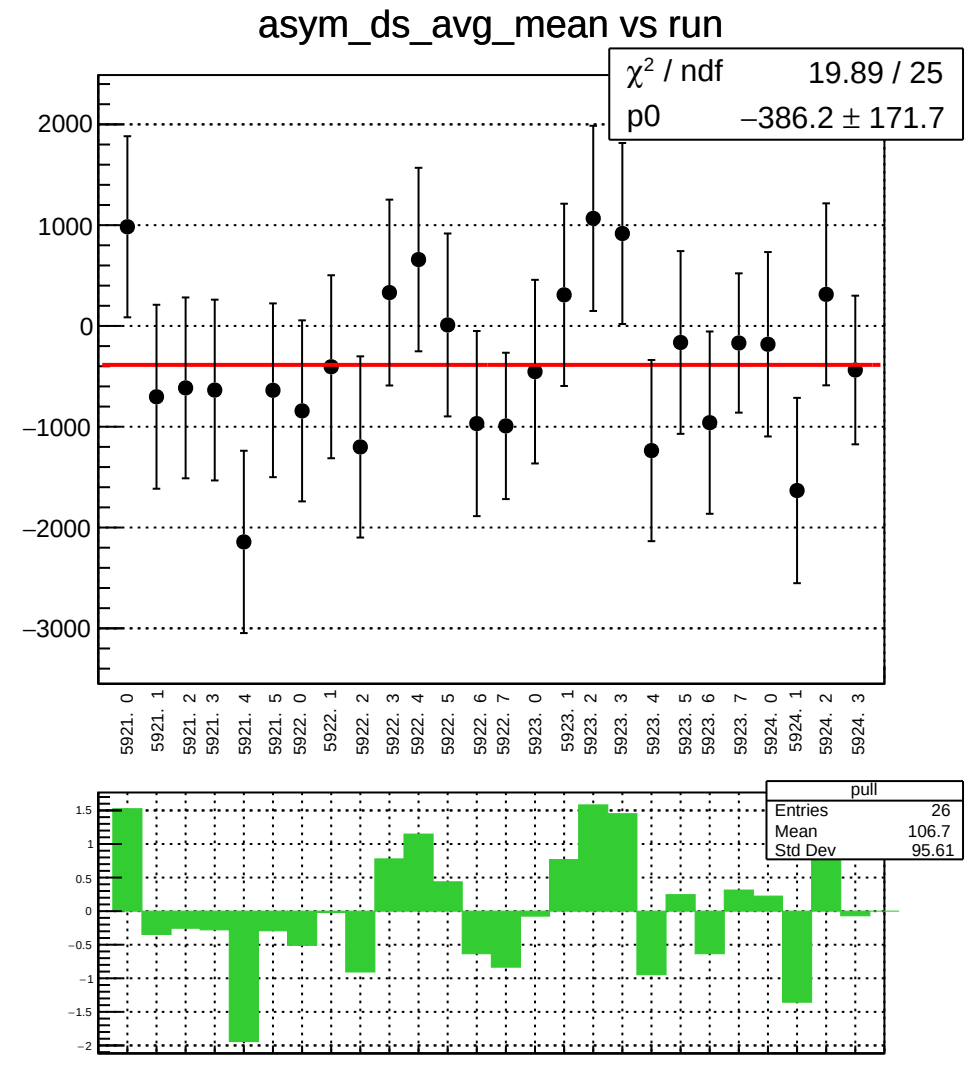

pull1D
Entries 26
Mean 0.005778
Std Dev 0.8744
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

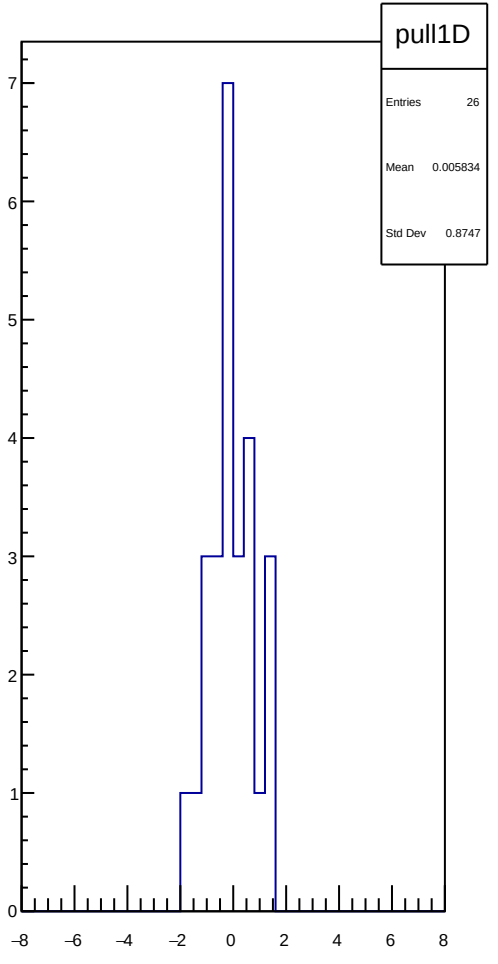

reg_asym_ds_avg_rms vs run
χ² / ndf 30.65 / 25
p0 85.96 ± 0.1214
88
87.5
87
86.5
86
85.5
85
84.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

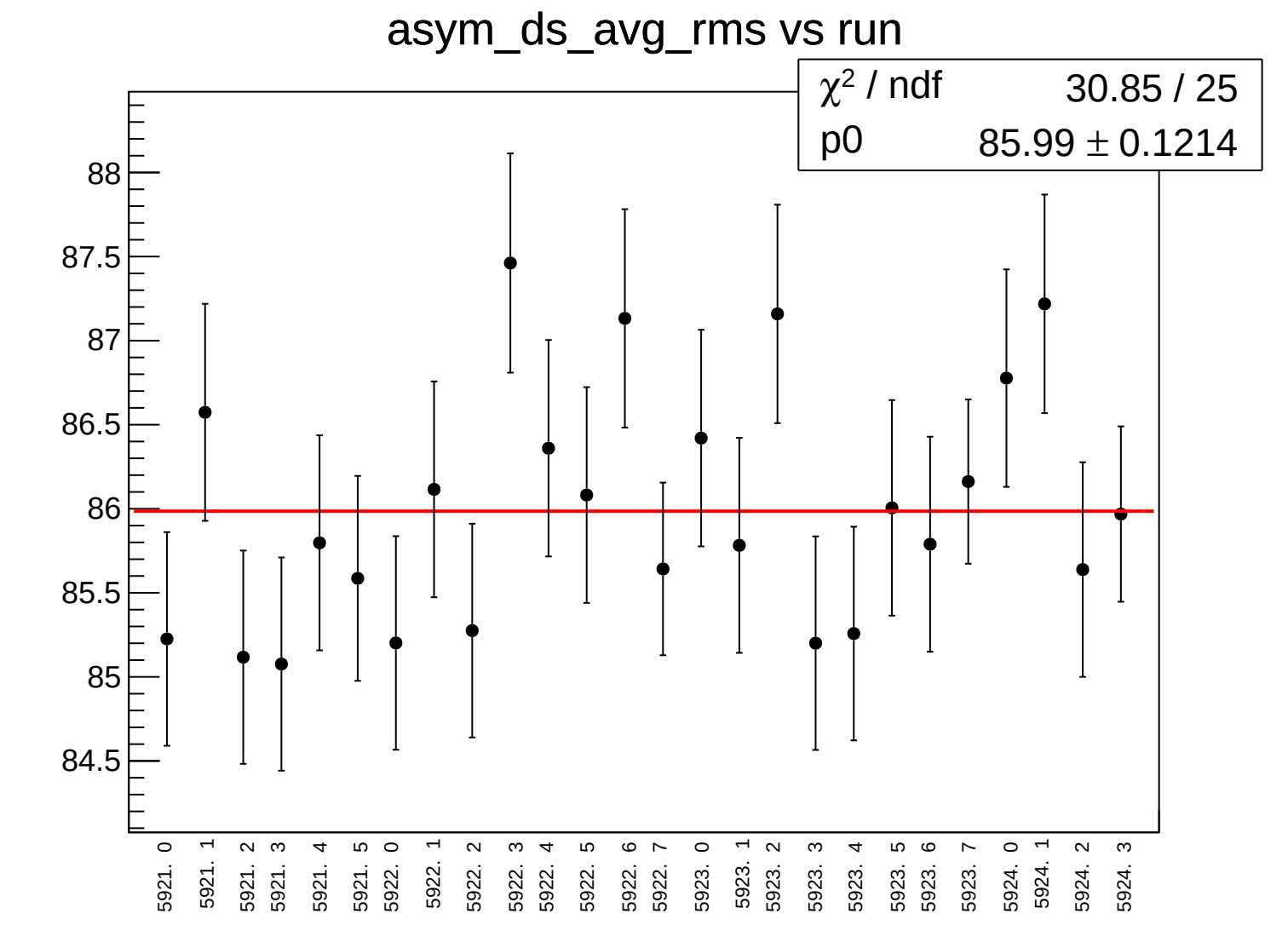

asym_ds_avg_correction_mean vs run
χ² / ndf 17.3 / 25
p0 0.2843 ± 3.222
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 31.52
Std Dev 23.1
1
0.5
0
−0.5
−1
−1.5
−2

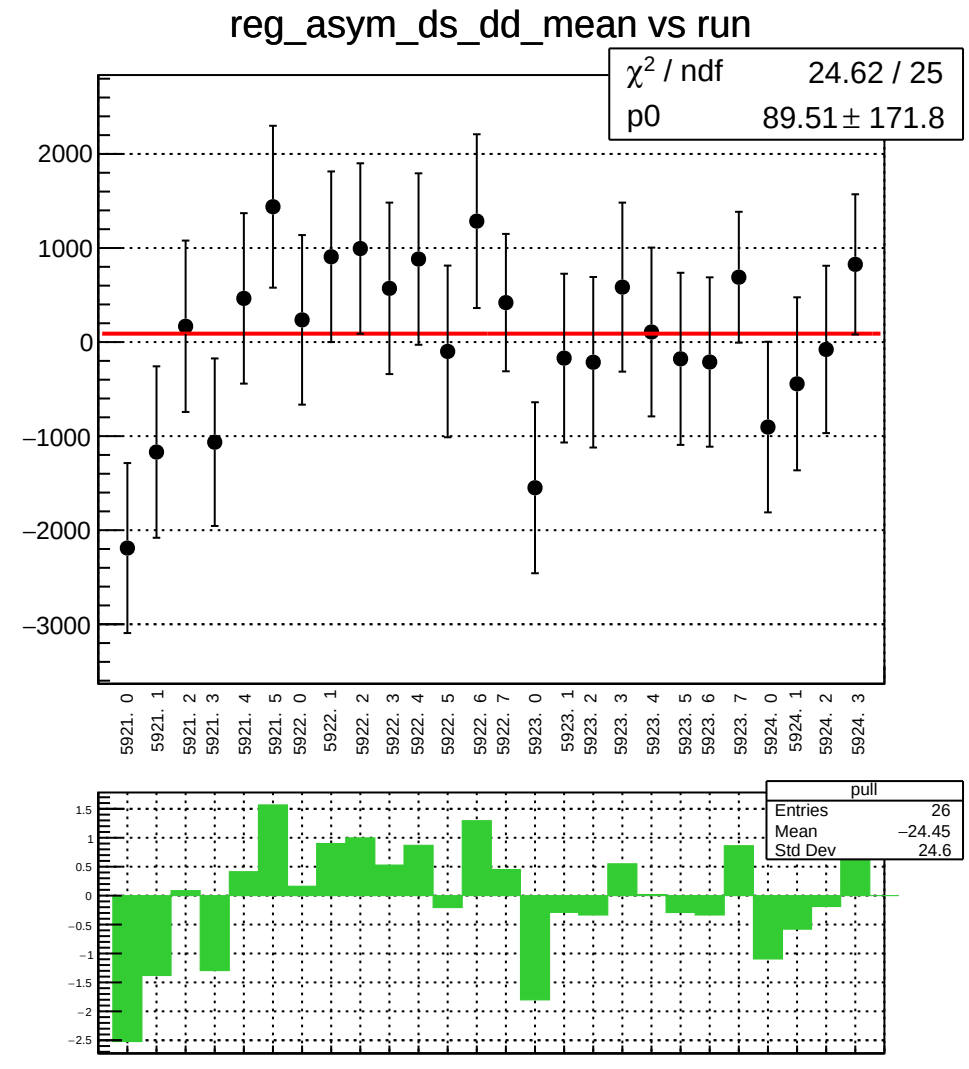

pull1D
Entries 26
Mean −0.06994
Std Dev 0.8127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

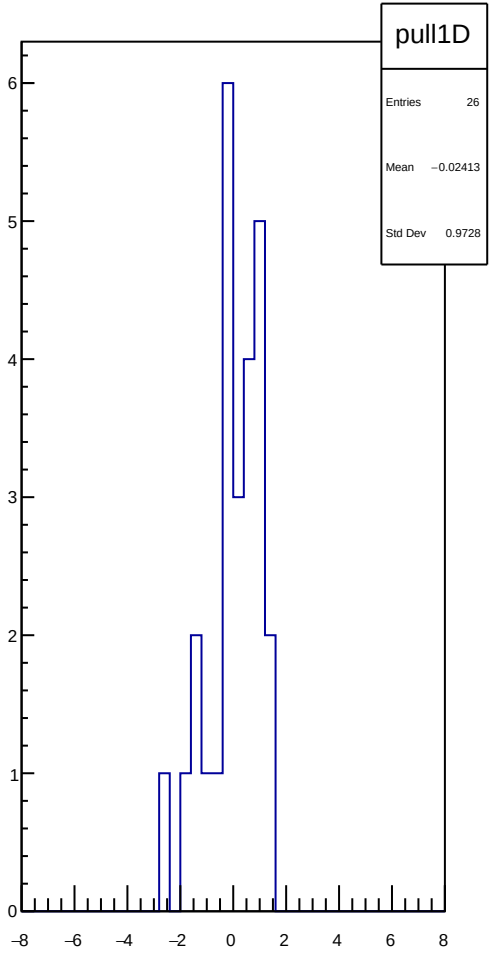

asym_ds_avg_correction_rms vs run
χ² / ndf 3.482e+04 / 25
p0 1.557 ± 0.002278
3
2.5
2
1.5
1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

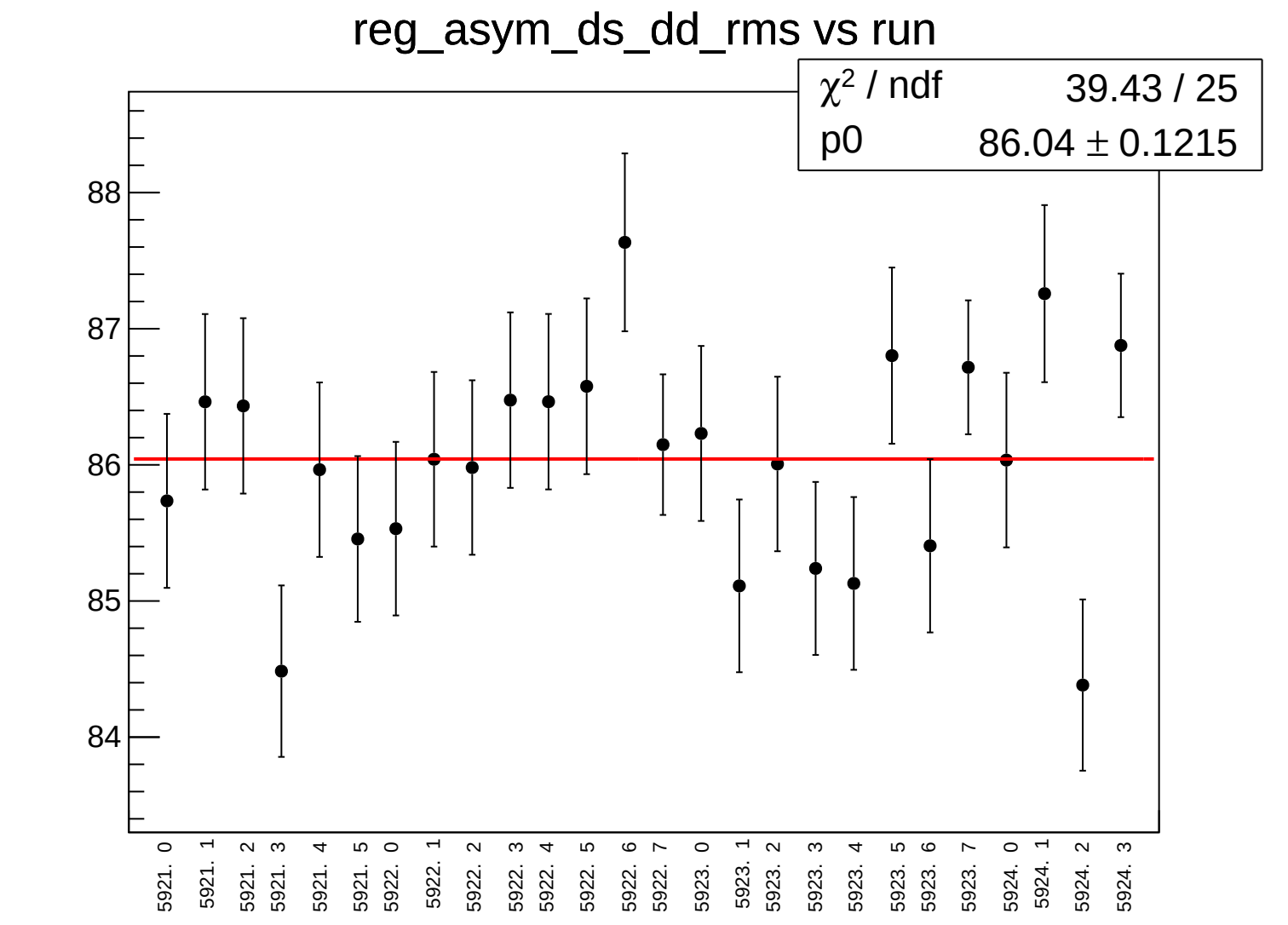

asym_ds_avg_mean vs run
χ² / ndf 19.89 / 25
p0 −386.2 ± 171.7
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 106.7
Std Dev 95.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2

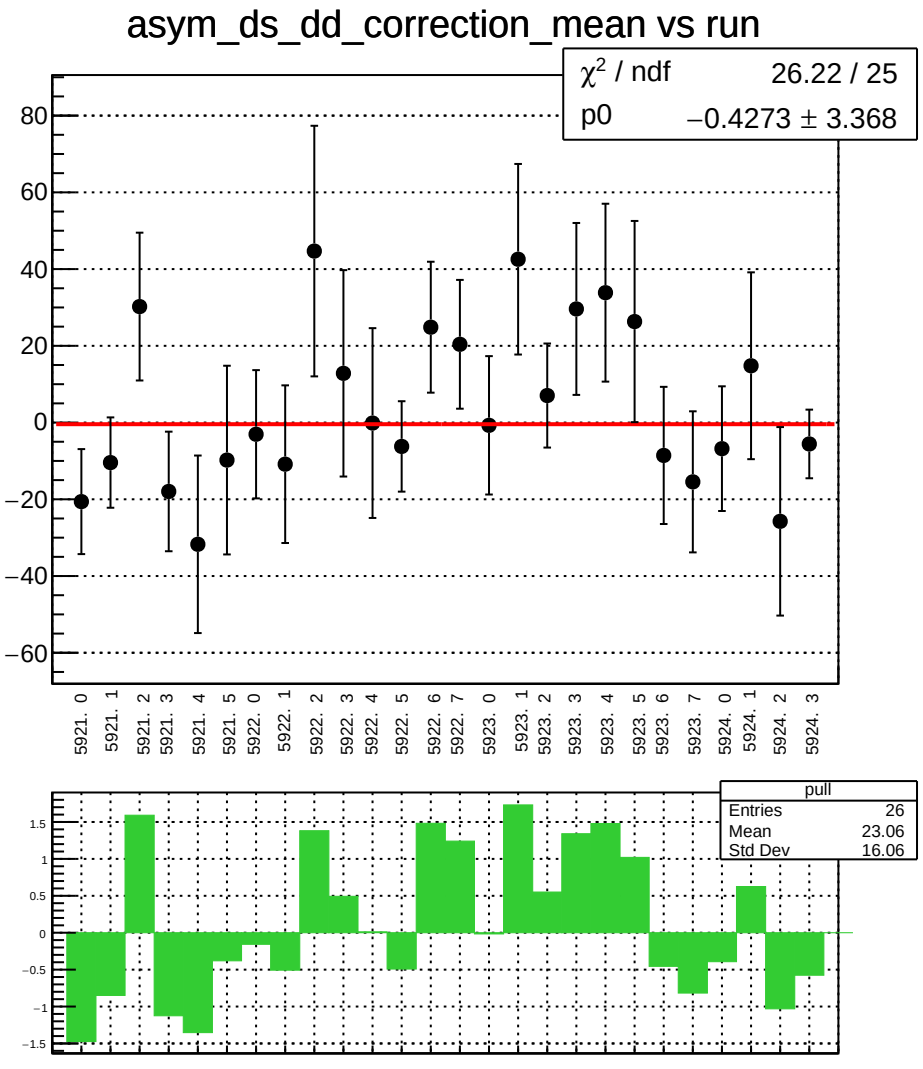

pull1D
Entries 26
Mean 0.005834
Std Dev 0.8747
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

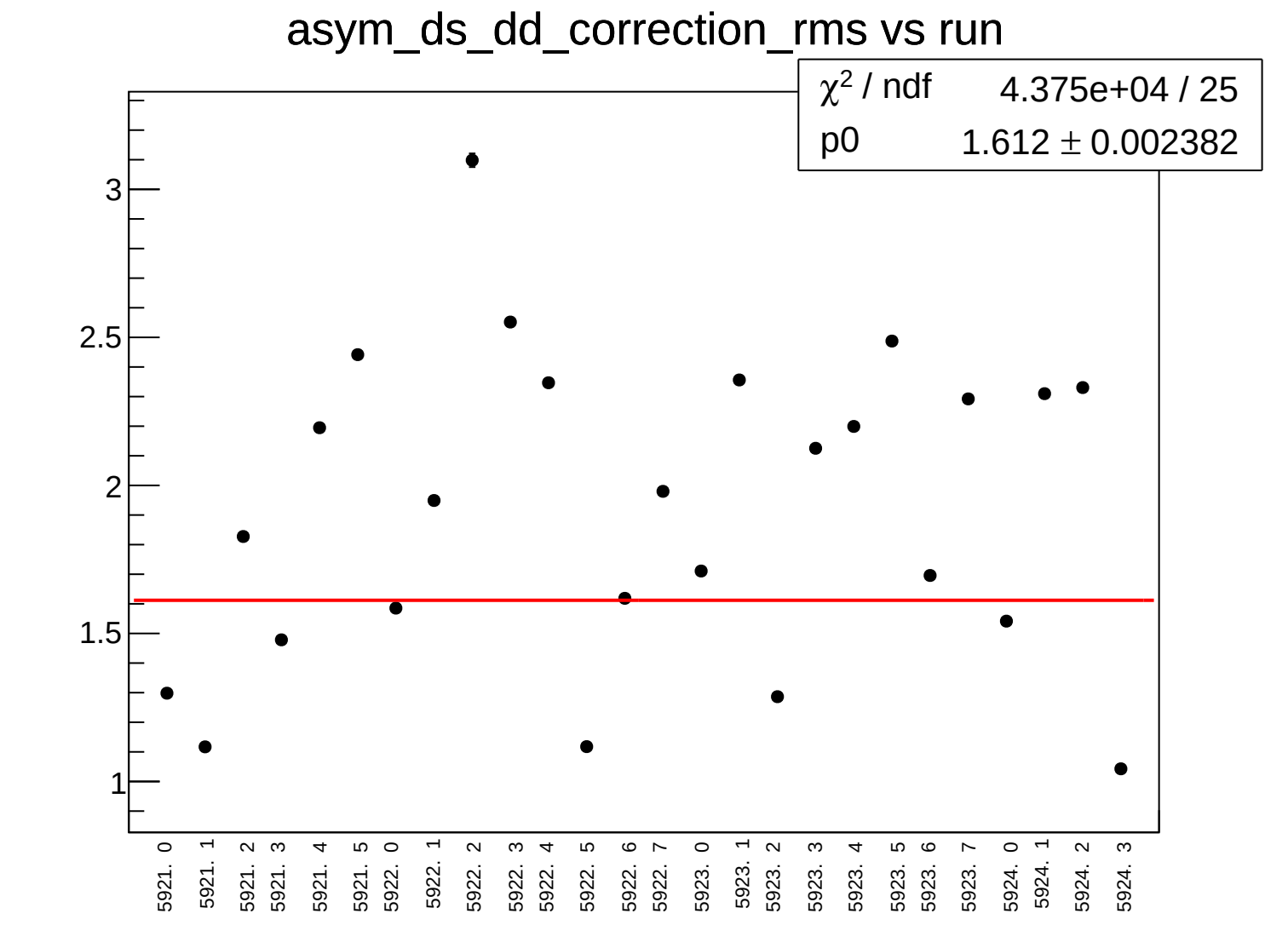

asym_ds_avg_rms vs run
χ² / ndf 30.85 / 25
p0 85.99 ± 0.1214
88
87.5
87
86.5
86
85.5
85
84.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

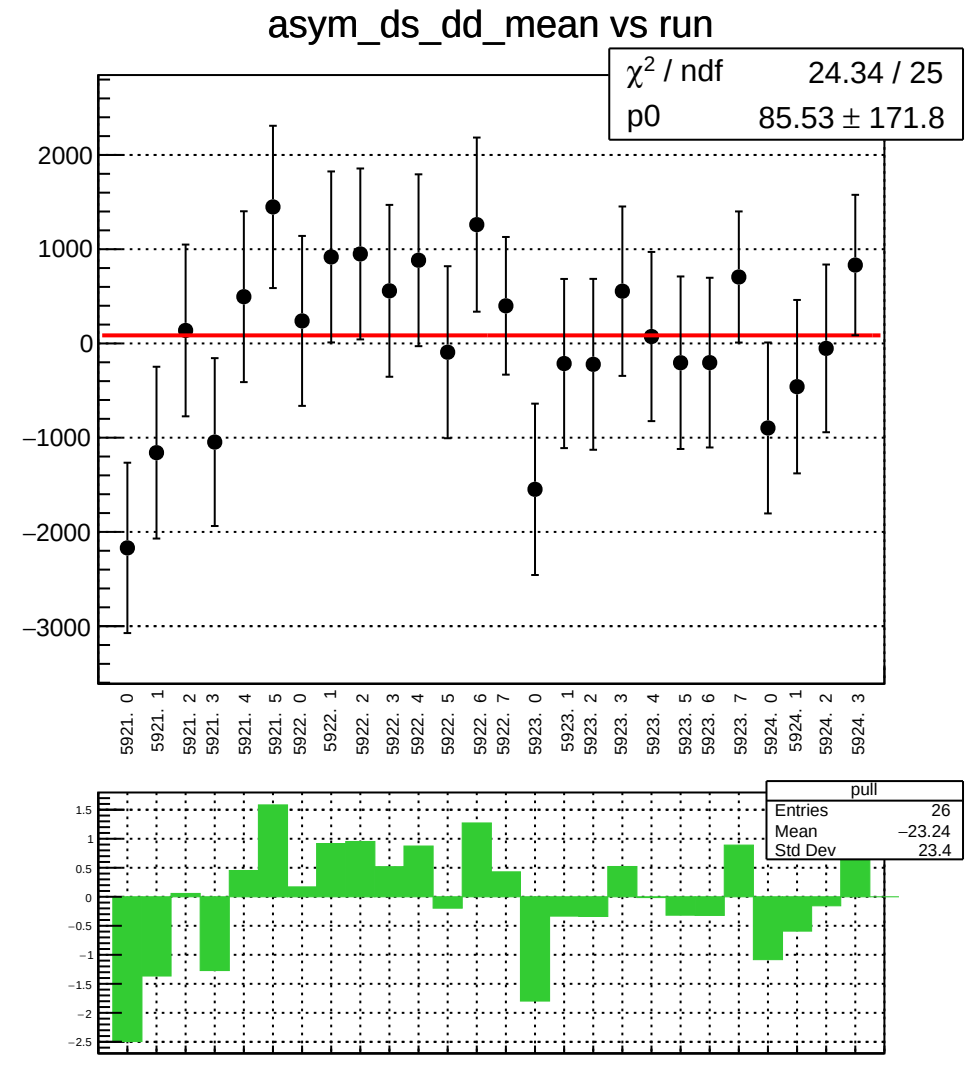

reg_asym_ds_dd_mean vs run
χ² / ndf 24.62 / 25
p0 89.51 ± 171.8
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −24.45
Std Dev 24.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

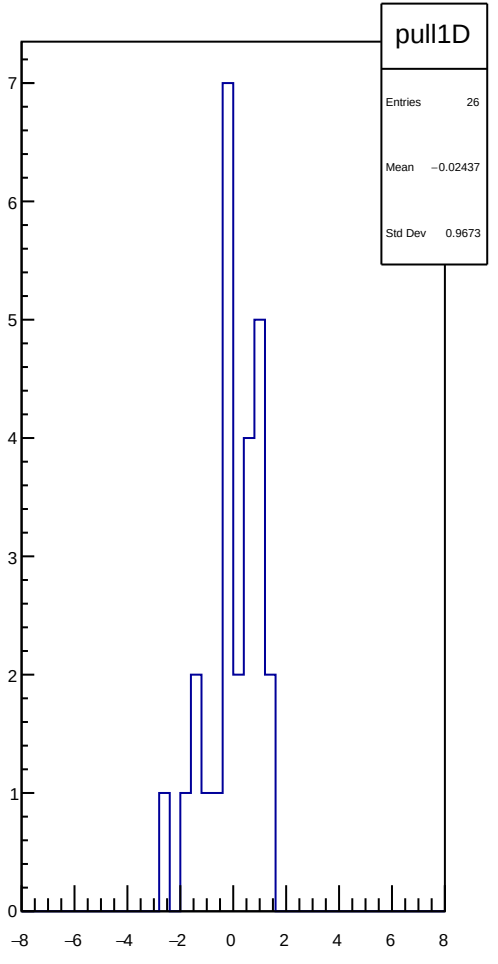

pull1D
Entries 26
Mean −0.02413
Std Dev 0.9728
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

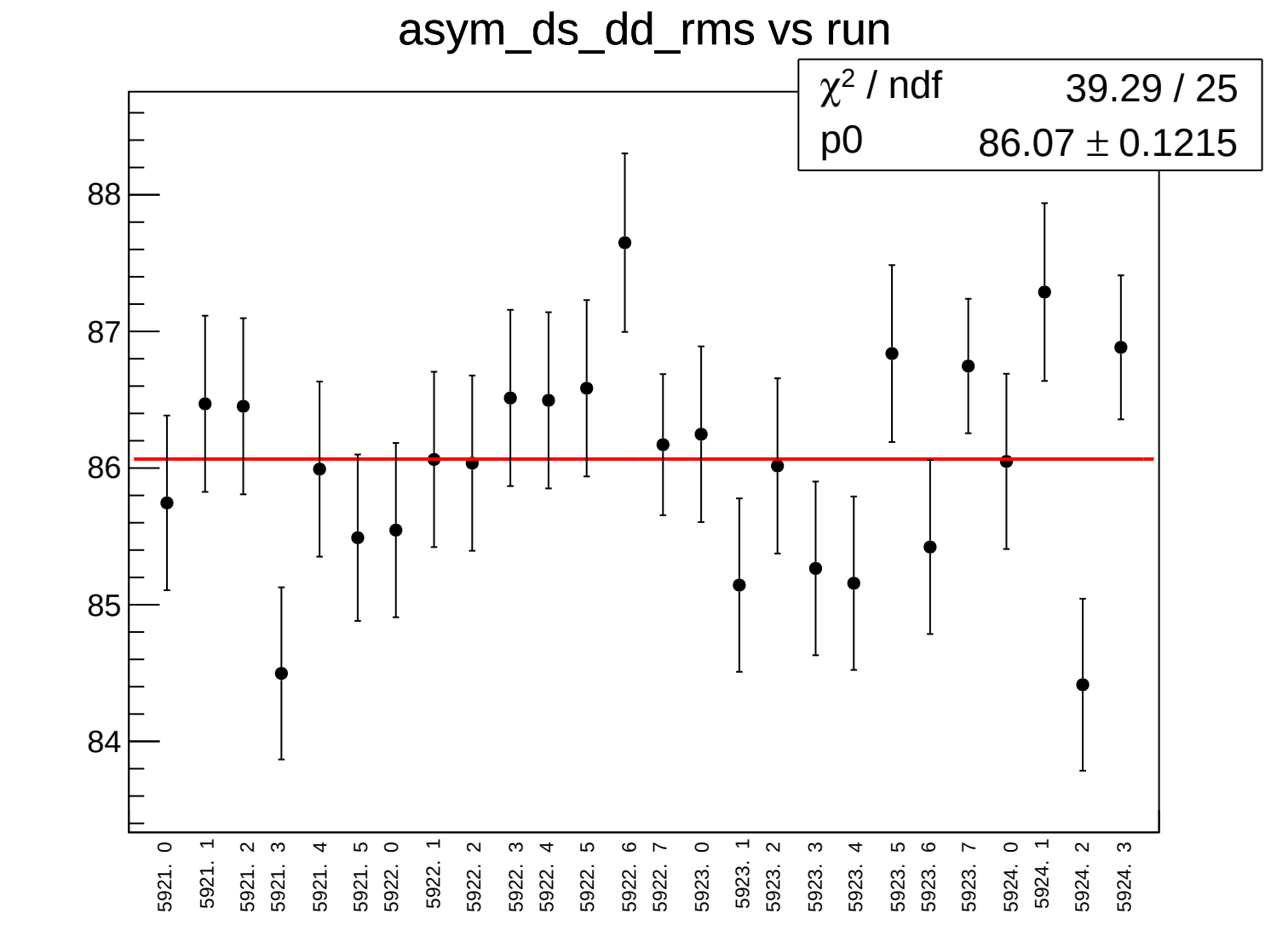

reg_asym_ds_dd_rms vs run
χ² / ndf 39.43 / 25
p0 86.04 ± 0.1215
88
87
86
85
84
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

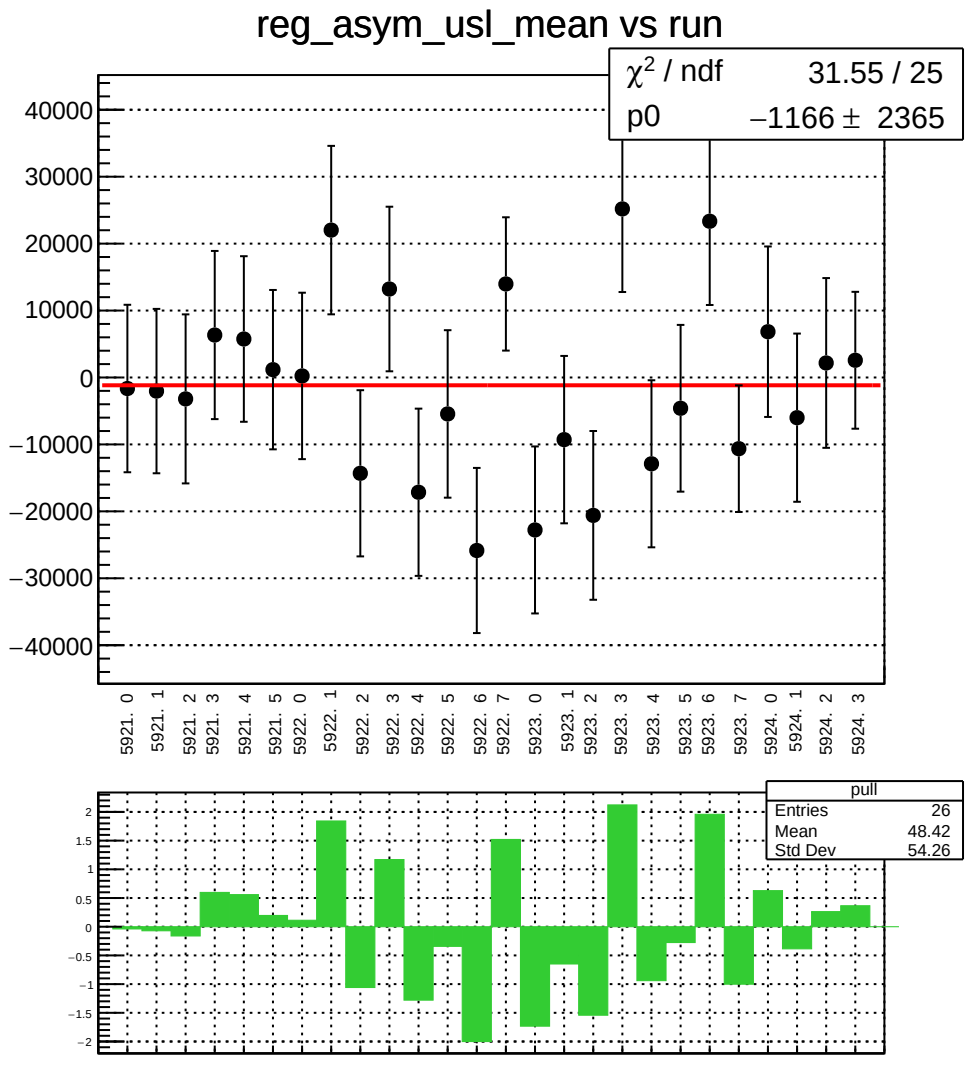

asym_ds_dd_correction_mean vs run
χ² / ndf 26.22 / 25
p0 −0.4273 ± 3.368
80
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 23.06
Std Dev 16.06
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.1278
Std Dev 0.996
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

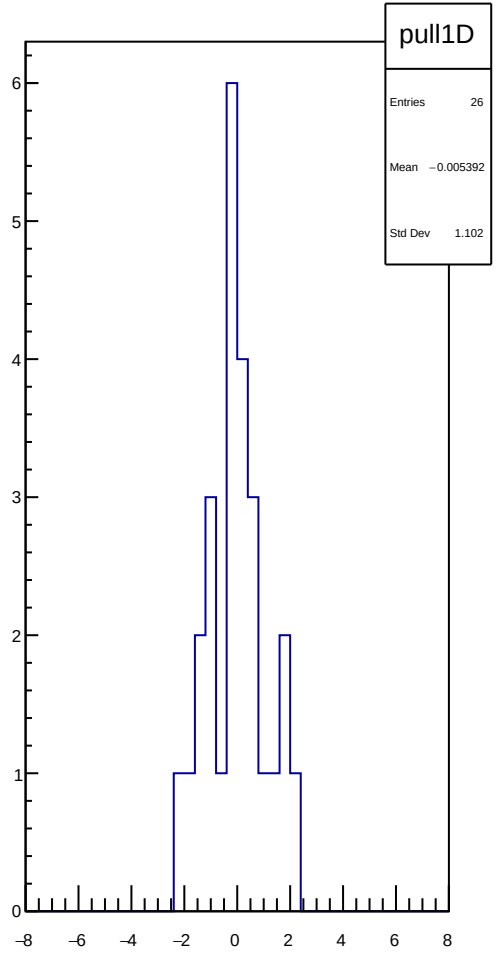

asym_ds_dd_correction_rms vs run
χ² / ndf 4.375e+04 / 25
p0 1.612 ± 0.002382
3
2.5
2
1.5
1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

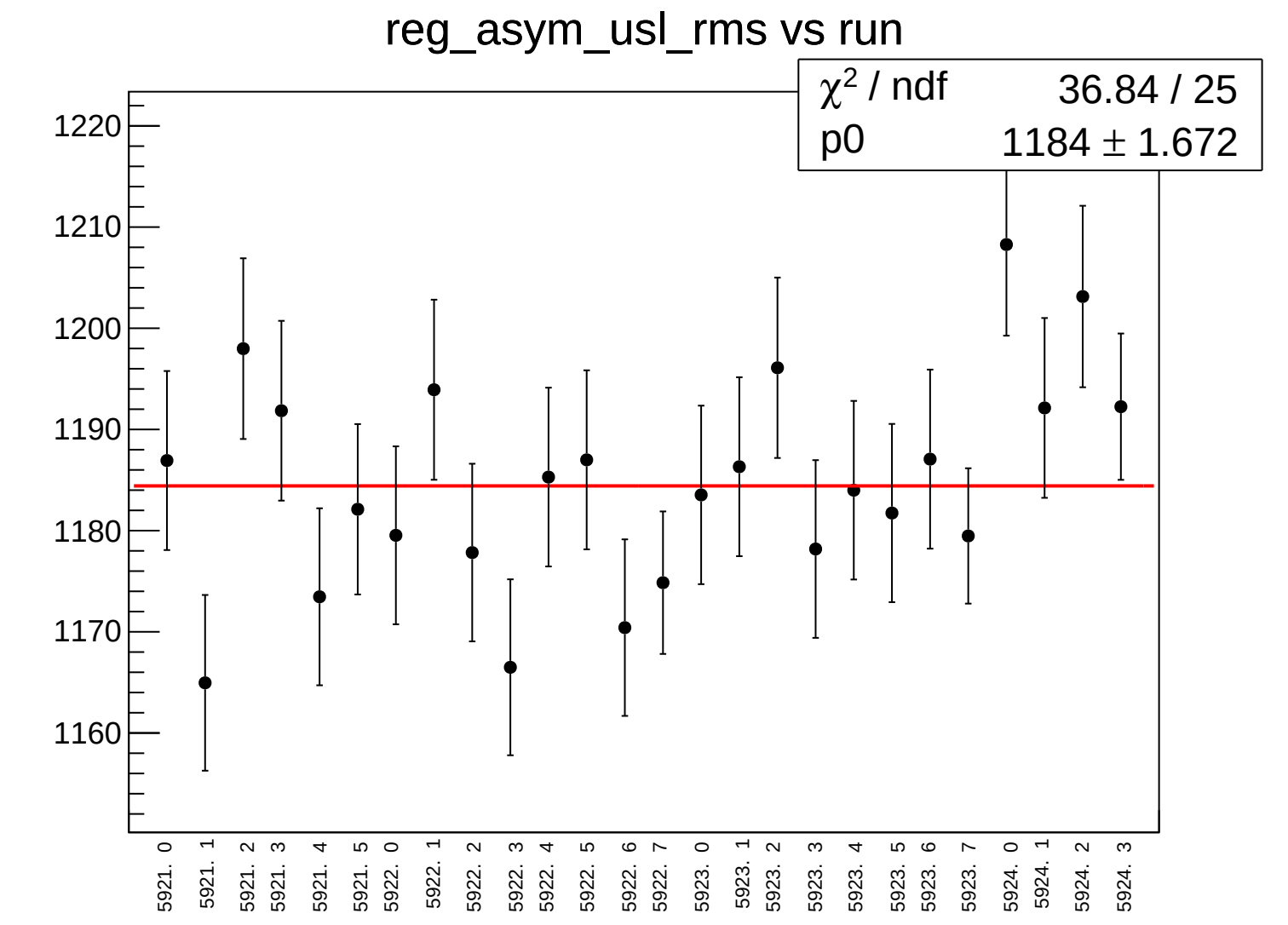

asym_ds_dd_mean vs run
χ² / ndf 24.34 / 25
p0 85.53 ± 171.8
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −23.24
Std Dev 23.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

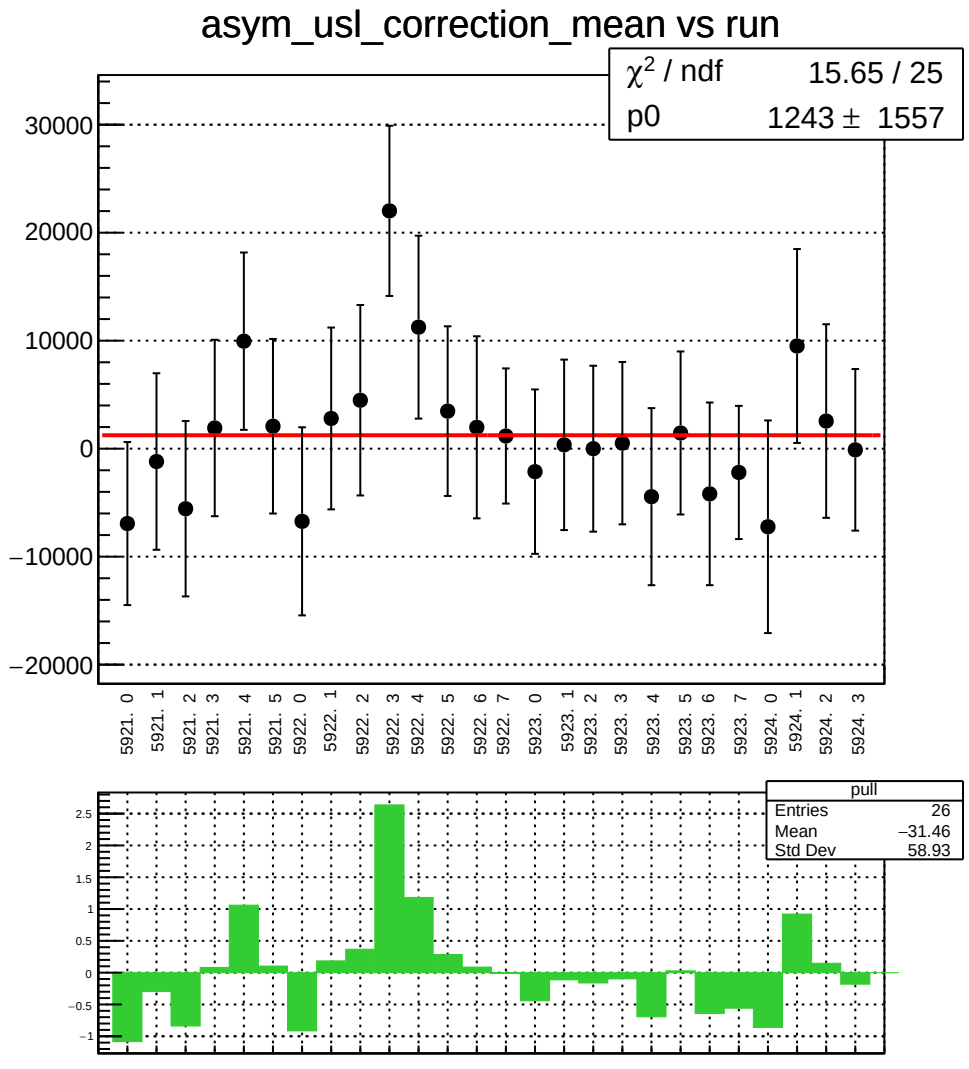

pull1D
Entries 26
Mean −0.02437
Std Dev 0.9673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

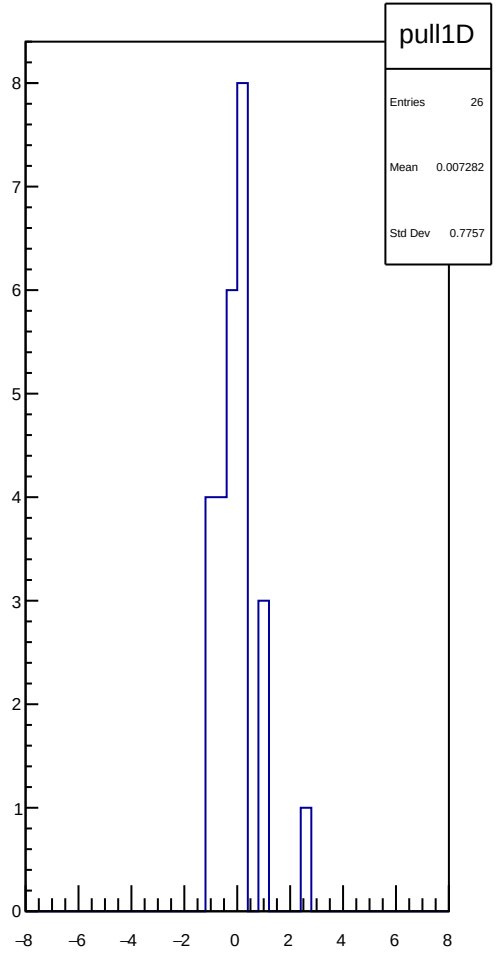

asym_ds_dd_rms vs run
χ² / ndf 39.29 / 25
p0 86.07 ± 0.1215
88
87
86
85
84
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

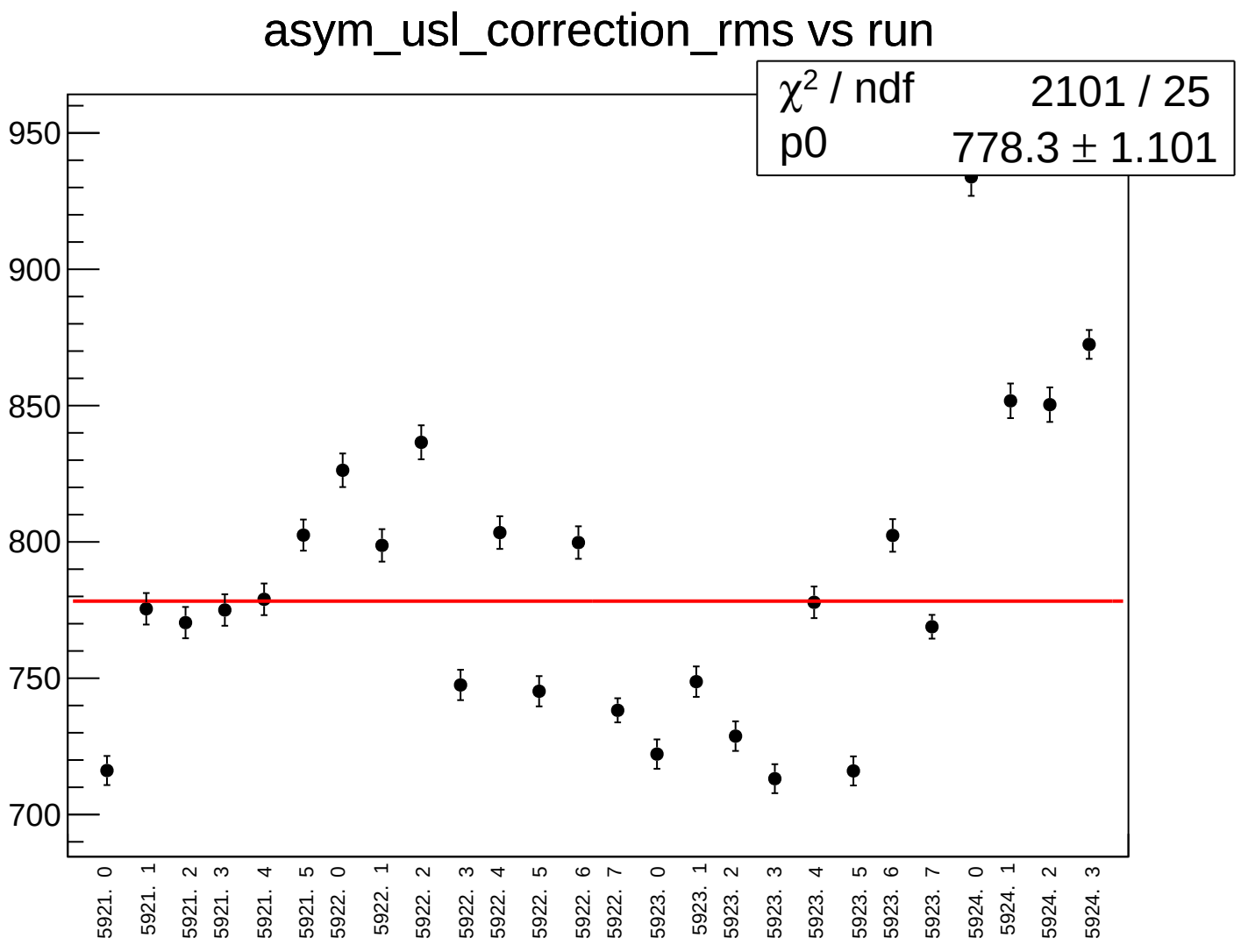

reg_asym_usl_mean vs run
χ² / ndf 31.55 / 25
p0 −1166 ± 2365
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 48.42
Std Dev 54.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

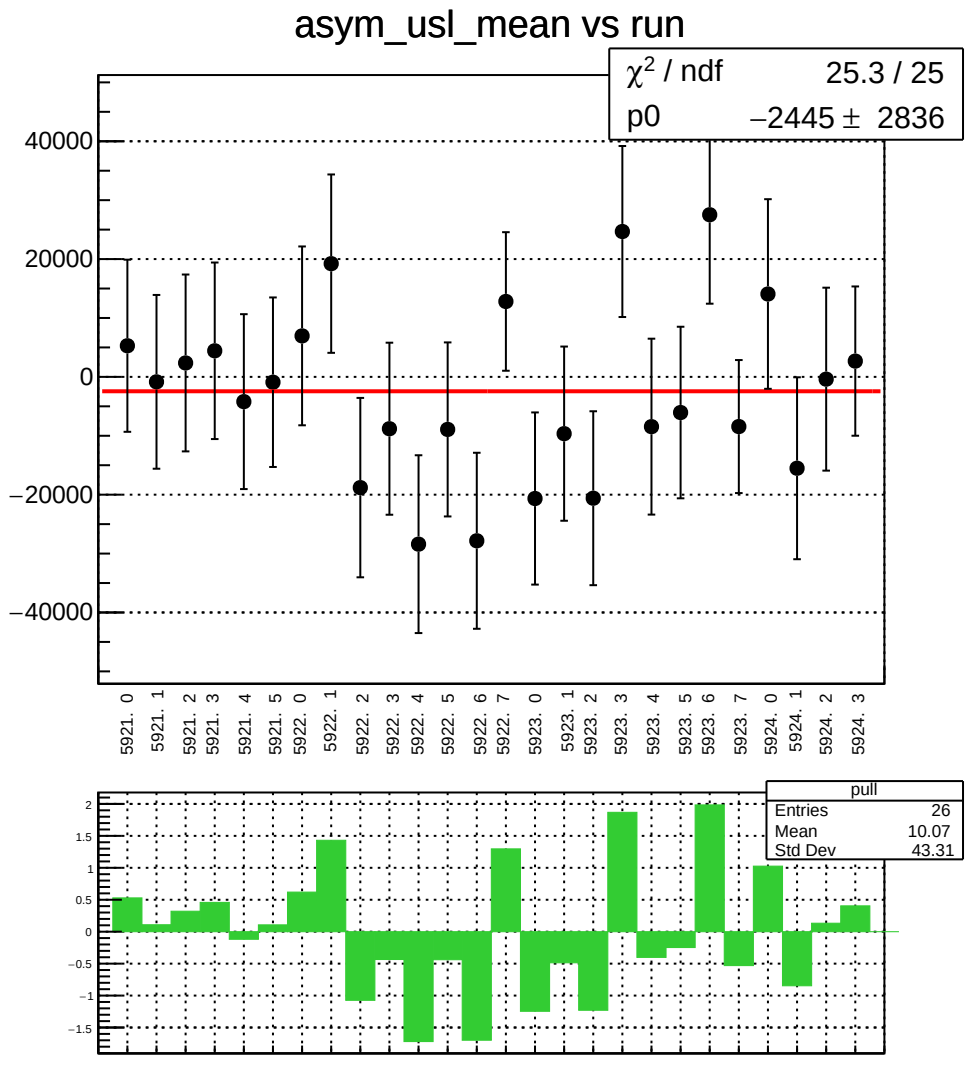

pull1D
Entries 26
Mean −0.005392
Std Dev 1.102
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

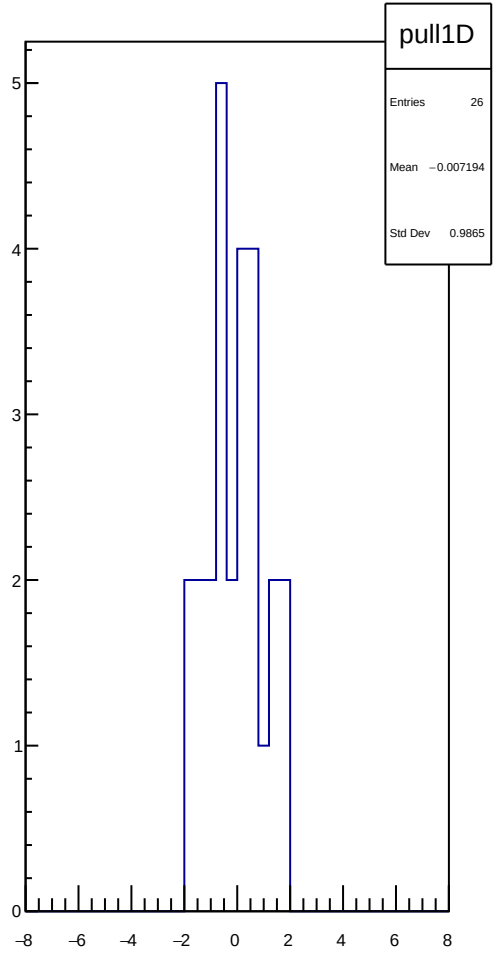

reg_asym_usl_rms vs run
χ² / ndf 36.84 / 25
p0 1184 ± 1.672
1220
1210
1200
1190
1180
1170
1160
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

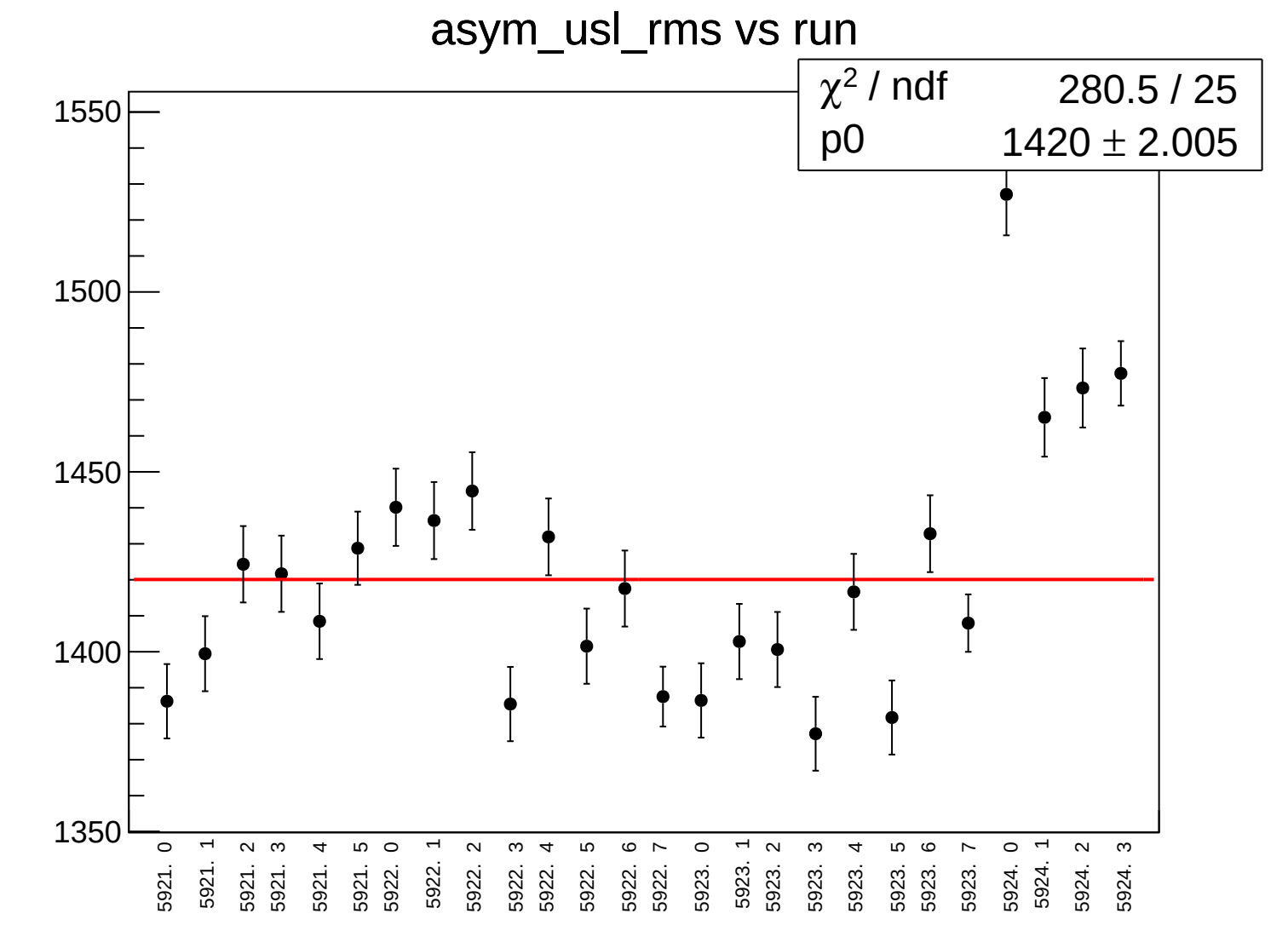

asym_usl_correction_mean vs run
χ² / ndf 15.65 / 25
p0 1243 ± 1557
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −31.46
Std Dev 58.93
2.5
2
1.5
1
0.5
0
−0.5
−1

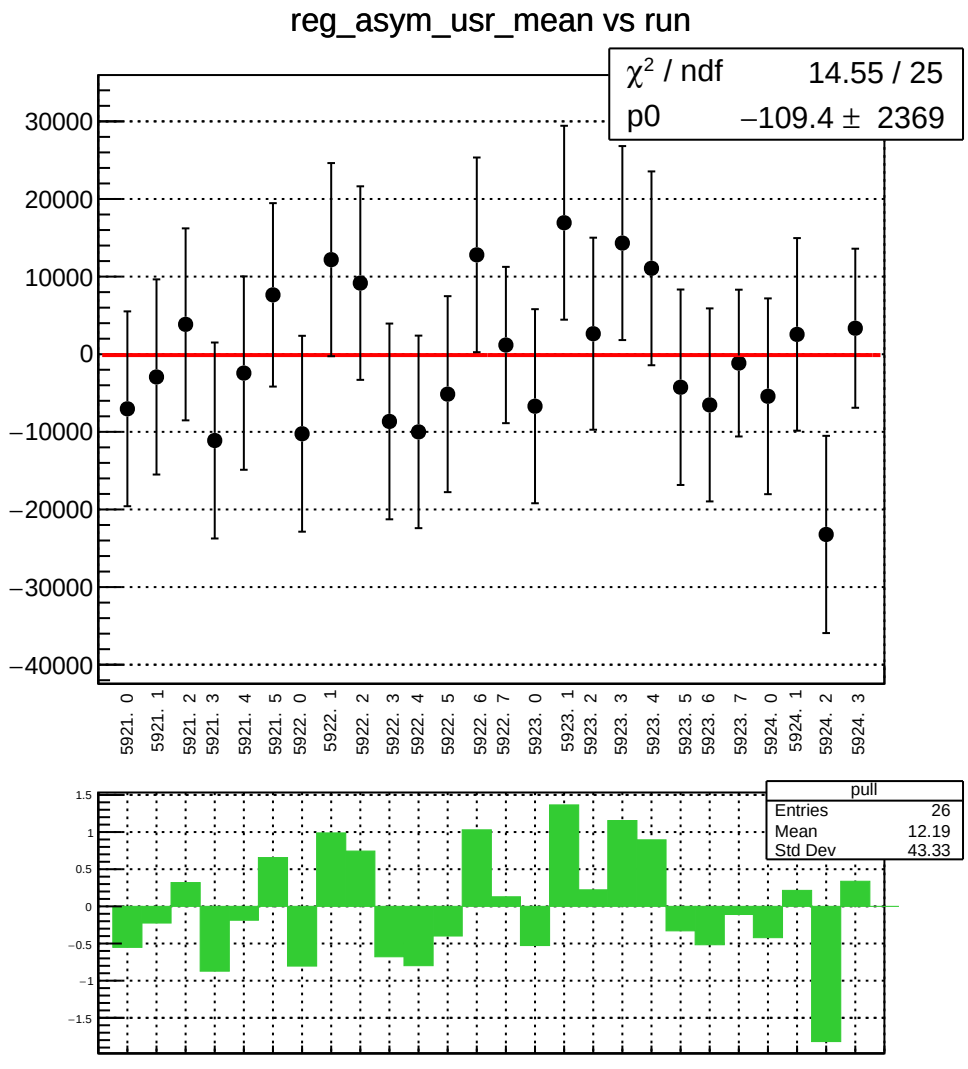

pull1D
Entries 26
Mean 0.007282
Std Dev 0.7757
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

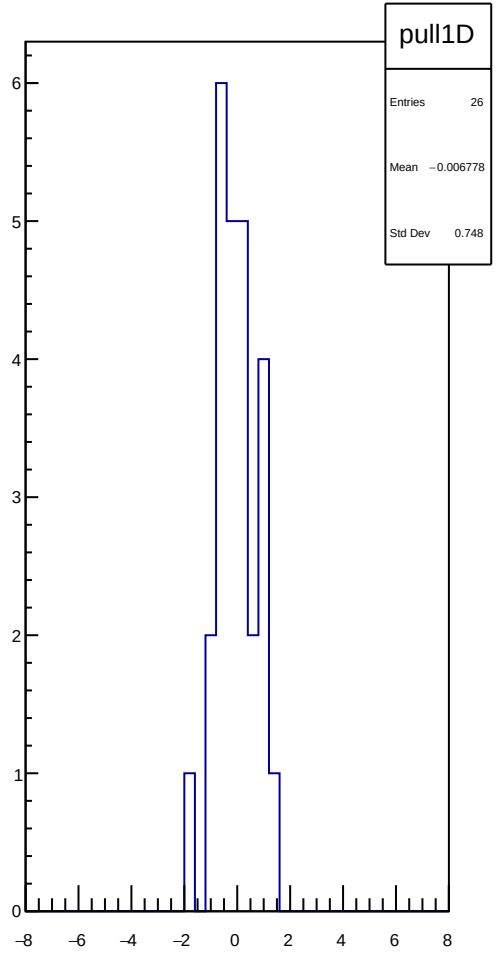

asym_usl_correction_rms vs run
χ² / ndf 2101 / 25
p0 778.3 ± 1.101
950
900
850
800
750
700
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

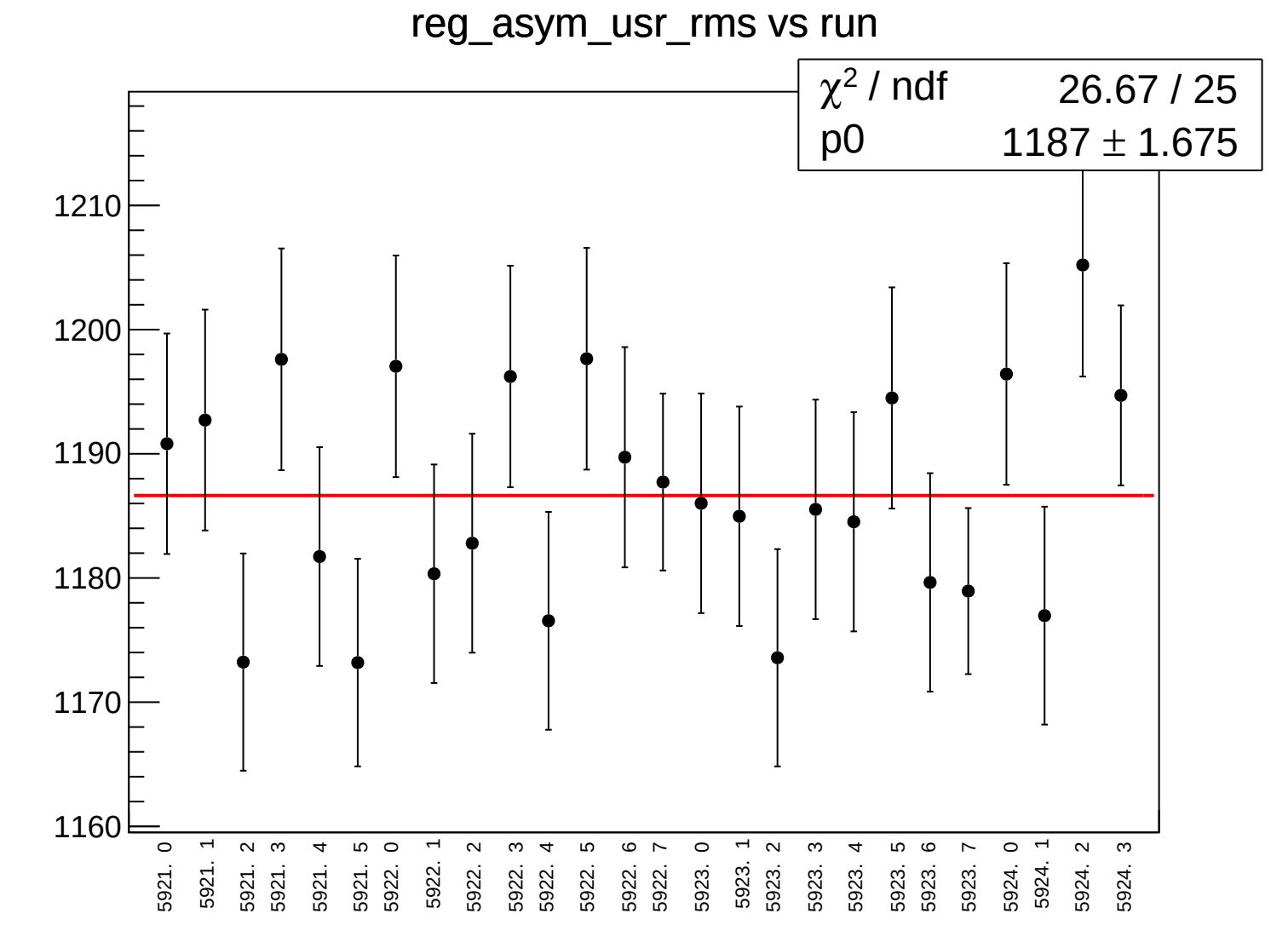

asym_usl_mean vs run
χ² / ndf 25.3 / 25
p0 −2445 ± 2836
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 10.07
Std Dev 43.31
2
1.5
1
0.5
0
−0.5
−1
−1.5

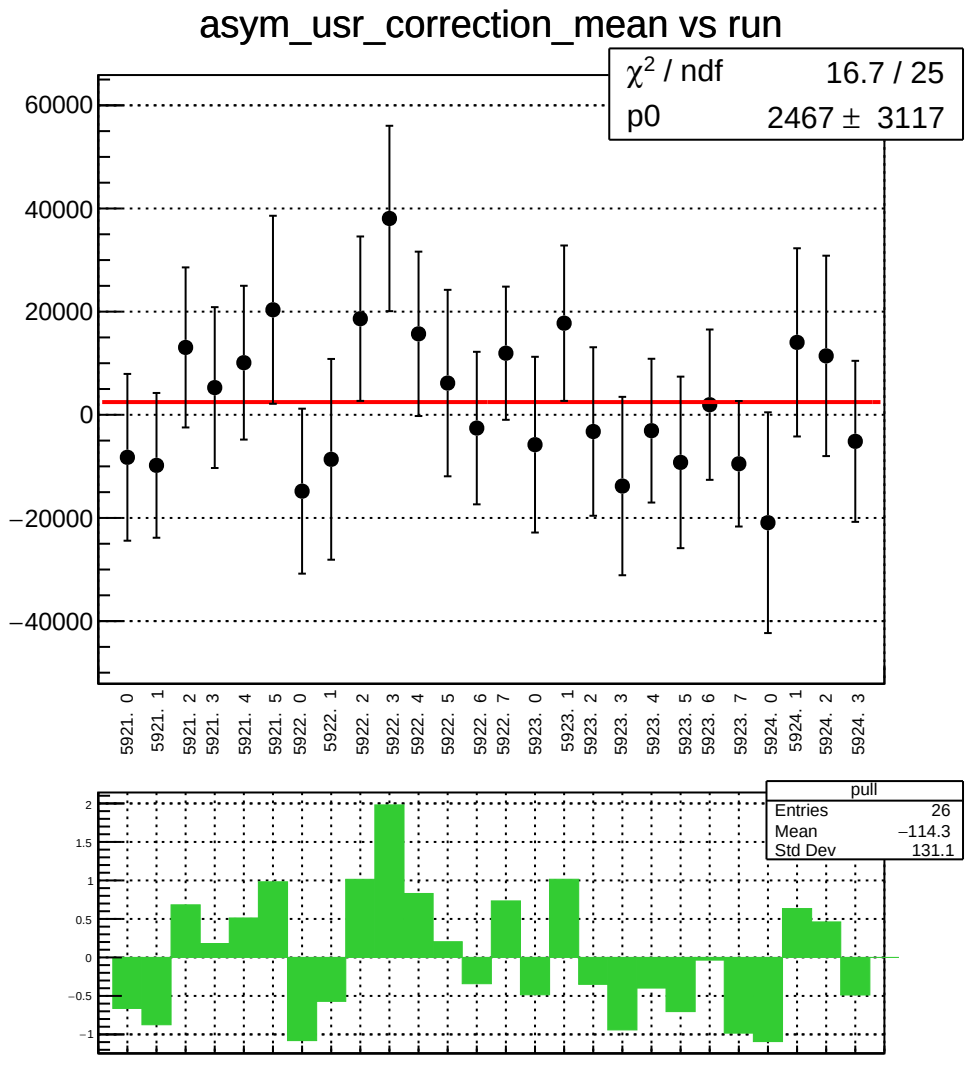

pull1D
Entries 26
Mean −0.007194
Std Dev 0.9865
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

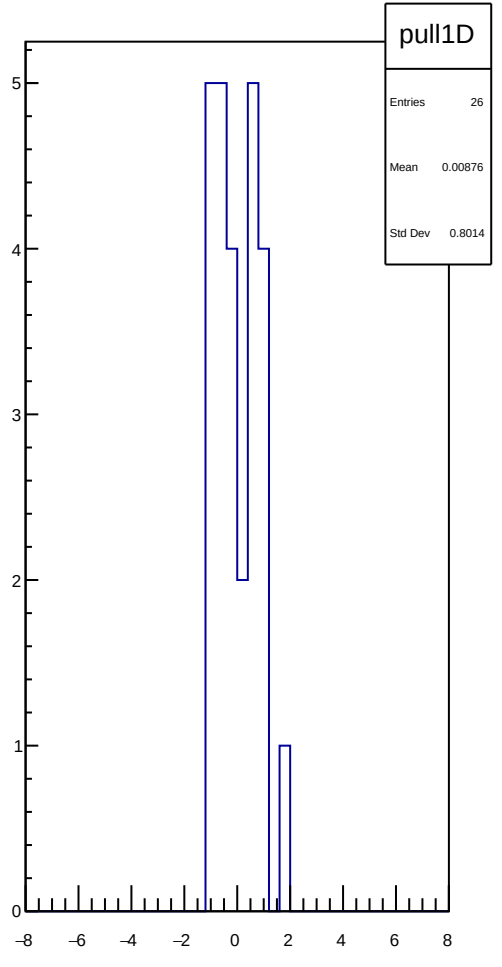

asym_usl_rms vs run
χ² / ndf 280.5 / 25
p0 1420 ± 2.005
1550
1500
1450
1400
1350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

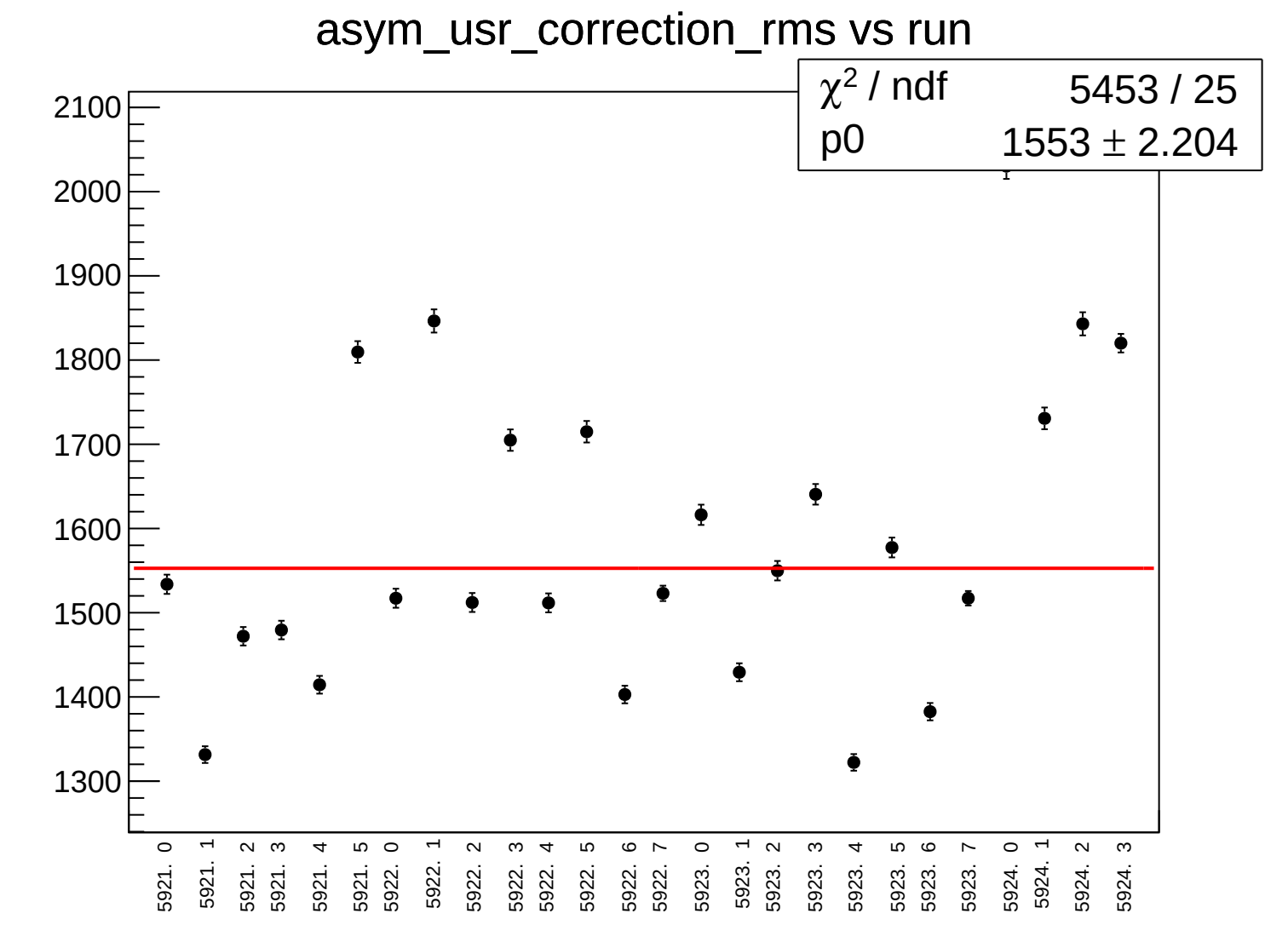

reg_asym_usr_mean vs run
χ² / ndf 14.55 / 25
p0 −109.4 ± 2369
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 12.19
Std Dev 43.33
1.5
1
0.5
0
−0.5
−1
−1.5

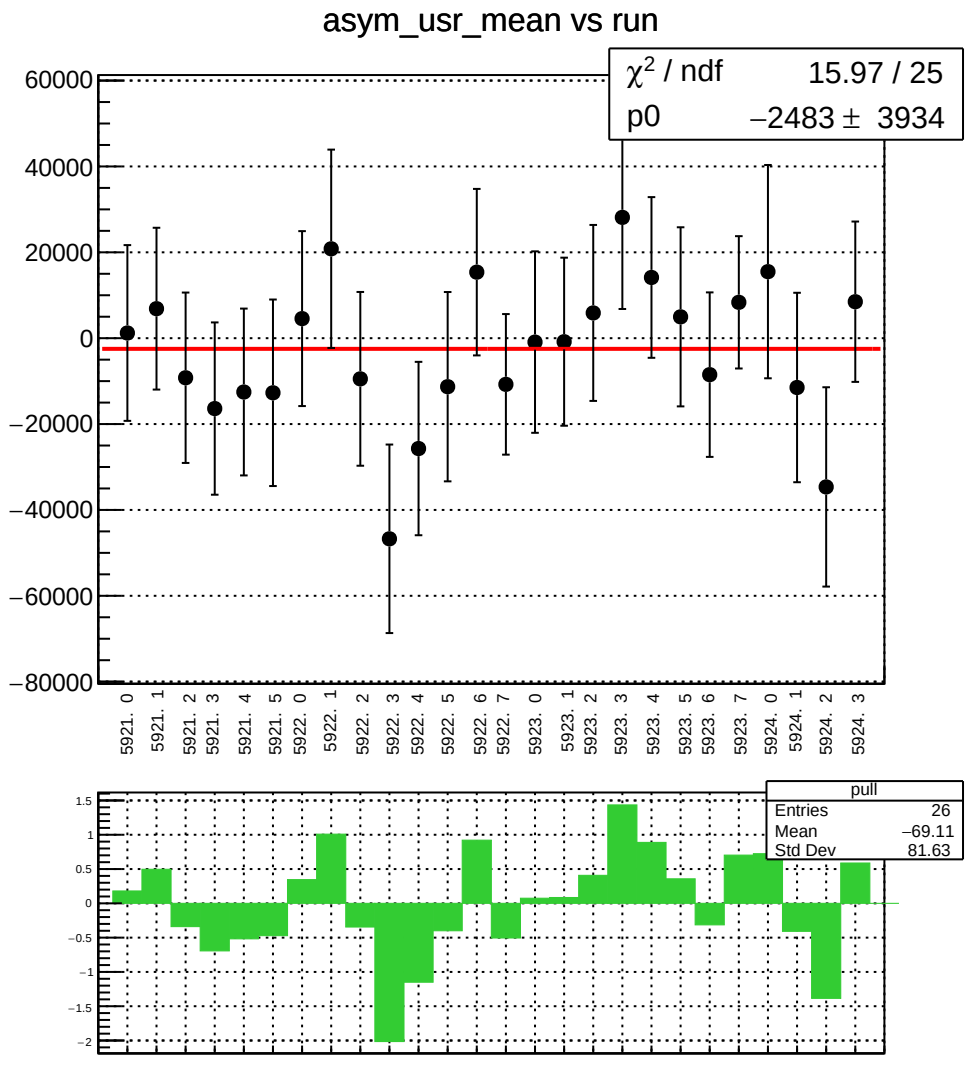

pull1D
Entries 26
Mean −0.006778
Std Dev 0.748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

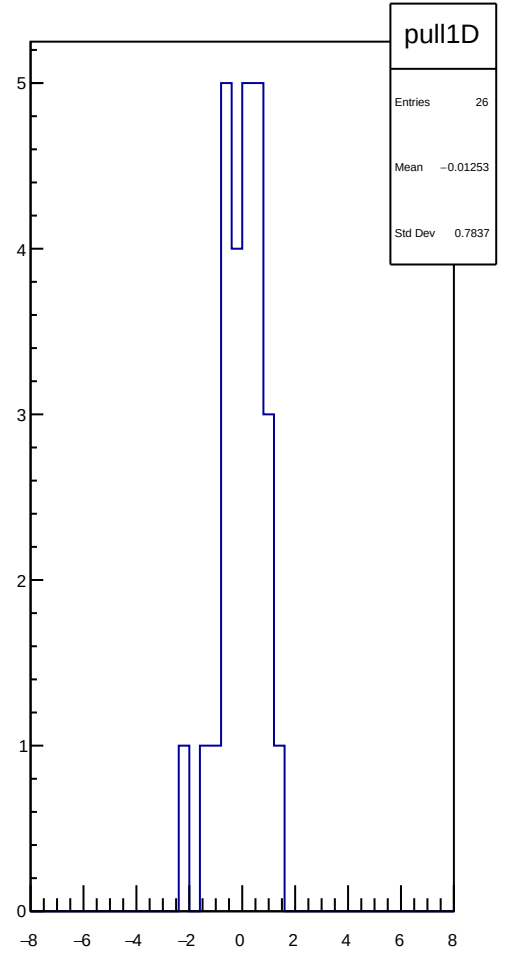

reg_asym_usr_rms vs run
χ² / ndf 26.67 / 25
p0 1187 ± 1.675
1210
1200
1190
1180
1170
1160
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

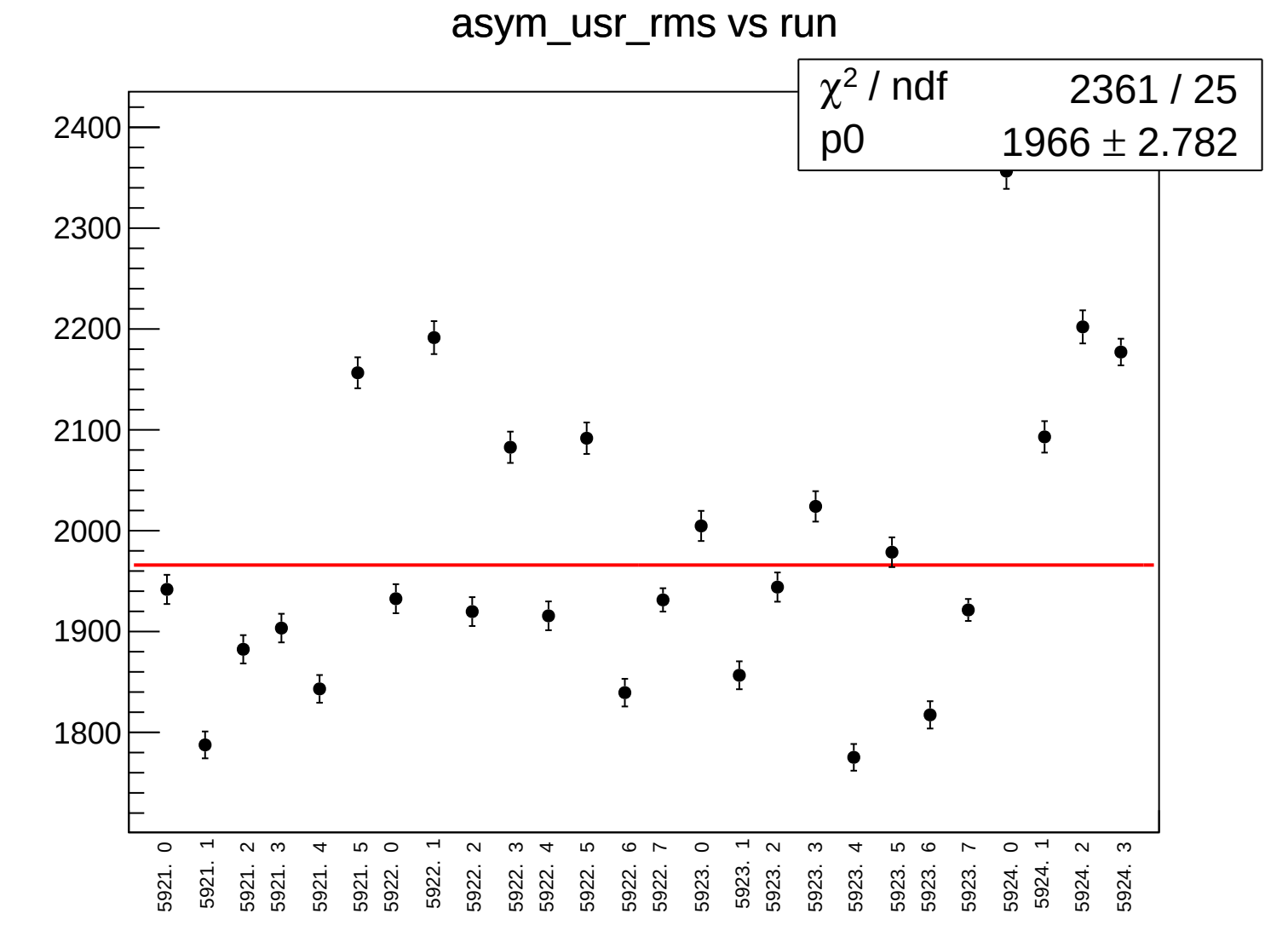

asym_usr_correction_mean vs run
χ² / ndf 16.7 / 25
p0 2467 ± 3117
60000
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −114.3
Std Dev 131.1
2
1.5
1
0.5
0
−0.5
−1

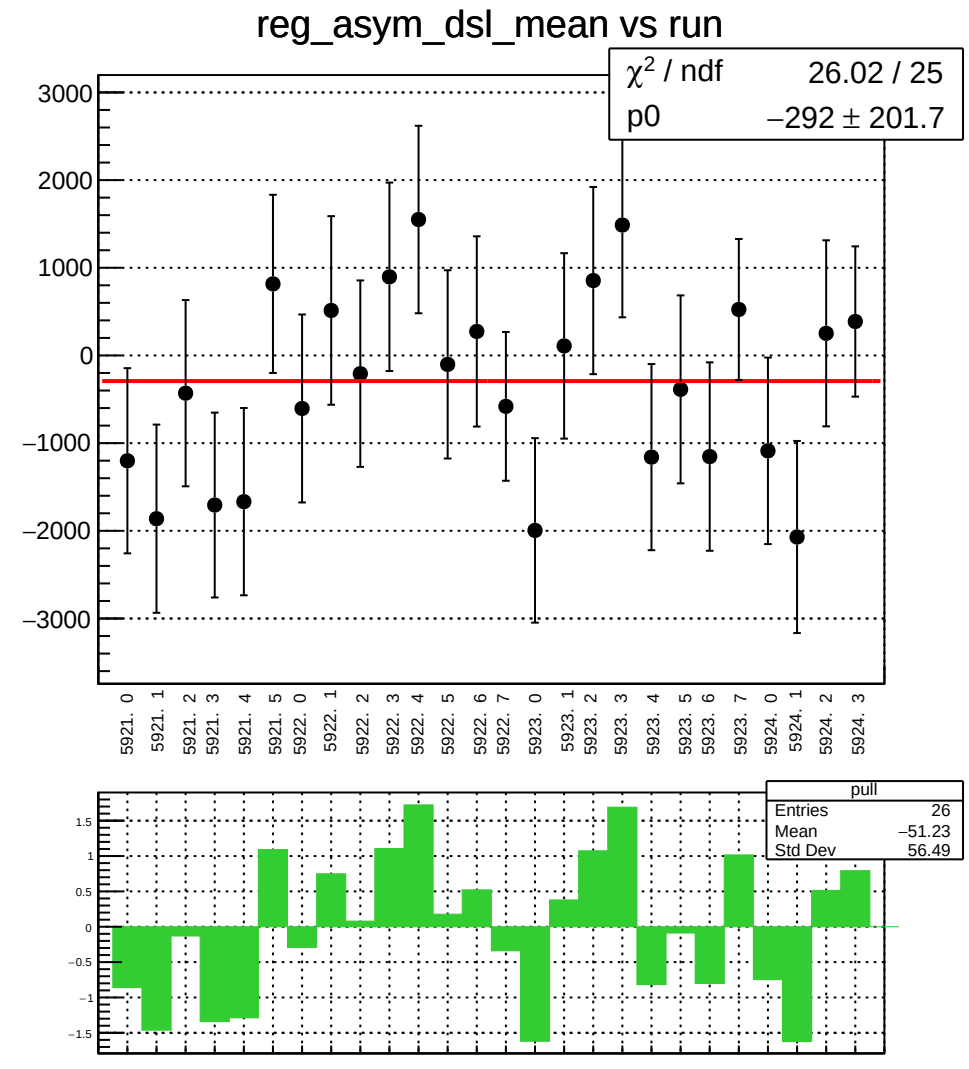

pull1D
Entries 26
Mean 0.00876
Std Dev 0.8014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

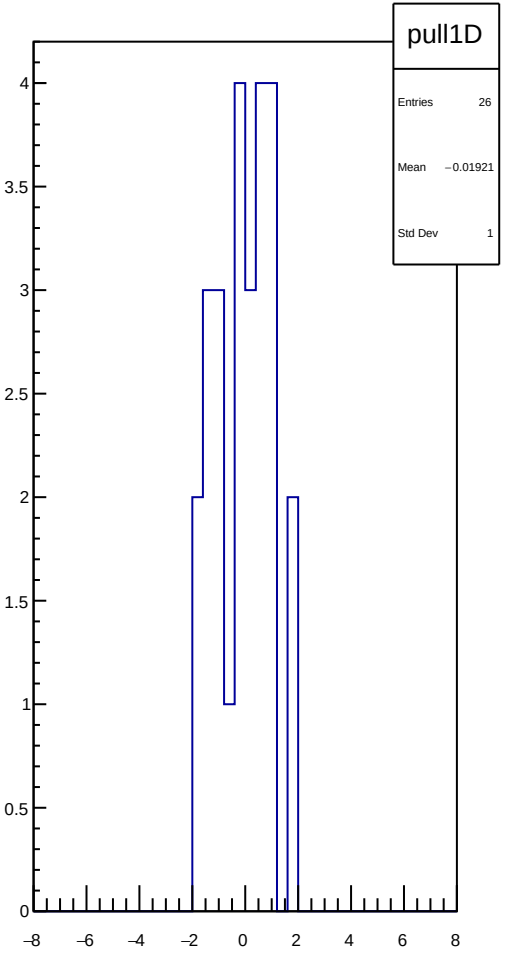

asym_usr_correction_rms vs run
χ² / ndf 5453 / 25
p0 1553 ± 2.204
2100
2000
1900
1800
1700
1600
1500
1400
1300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

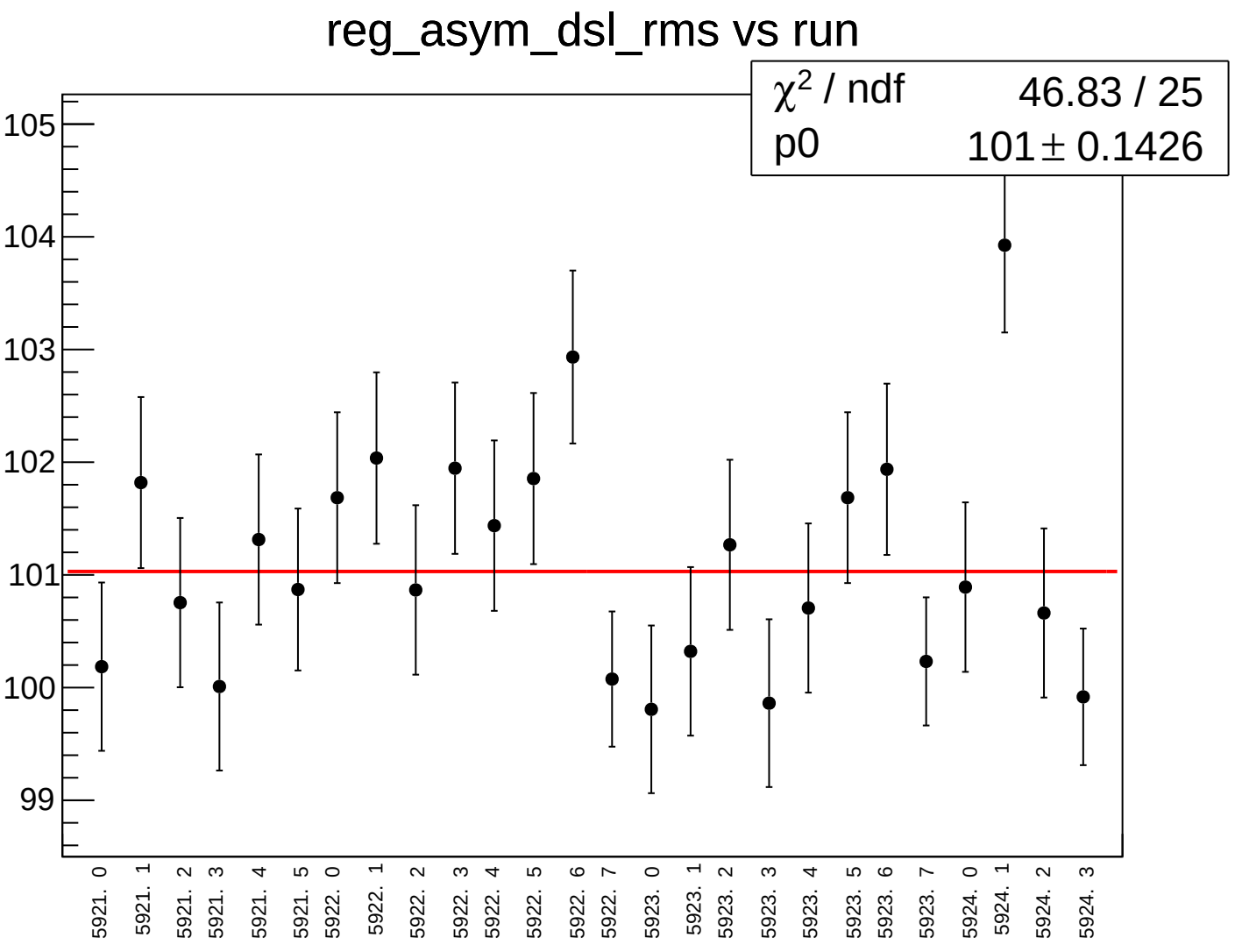

asym_usr_mean vs run
χ² / ndf 15.97 / 25
p0 −2483 ± 3934
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −69.11
Std Dev 81.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

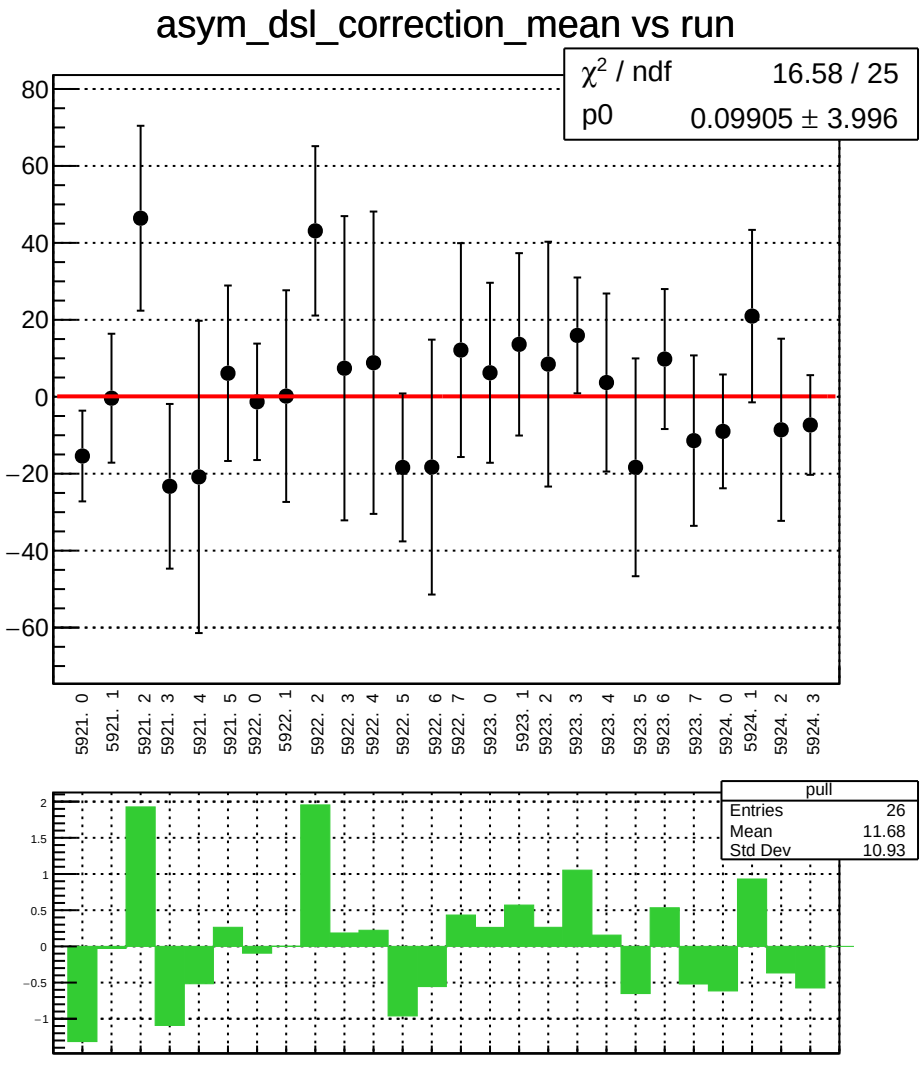

pull1D
Entries 26
Mean −0.01253
Std Dev 0.7837
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

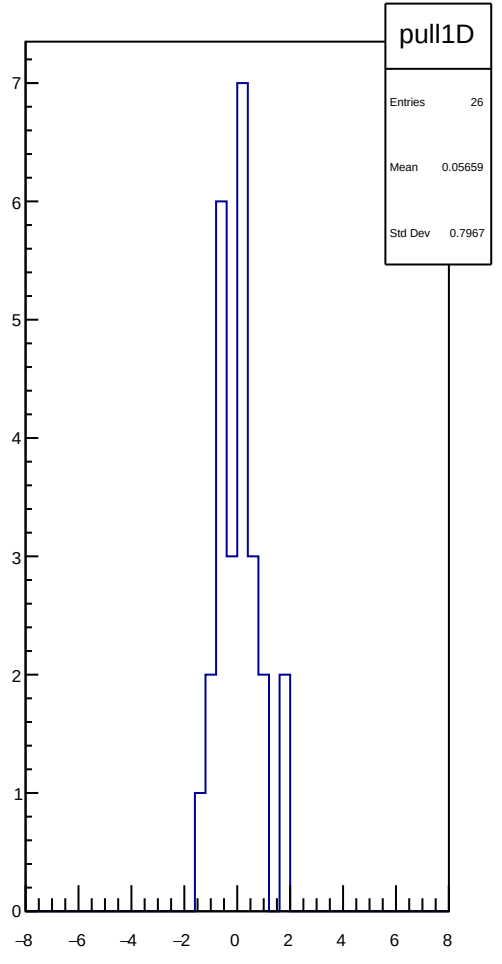

asym_usr_rms vs run
χ² / ndf 2361 / 25
p0 1966 ± 2.782
2400
2300
2200
2100
2000
1900
1800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

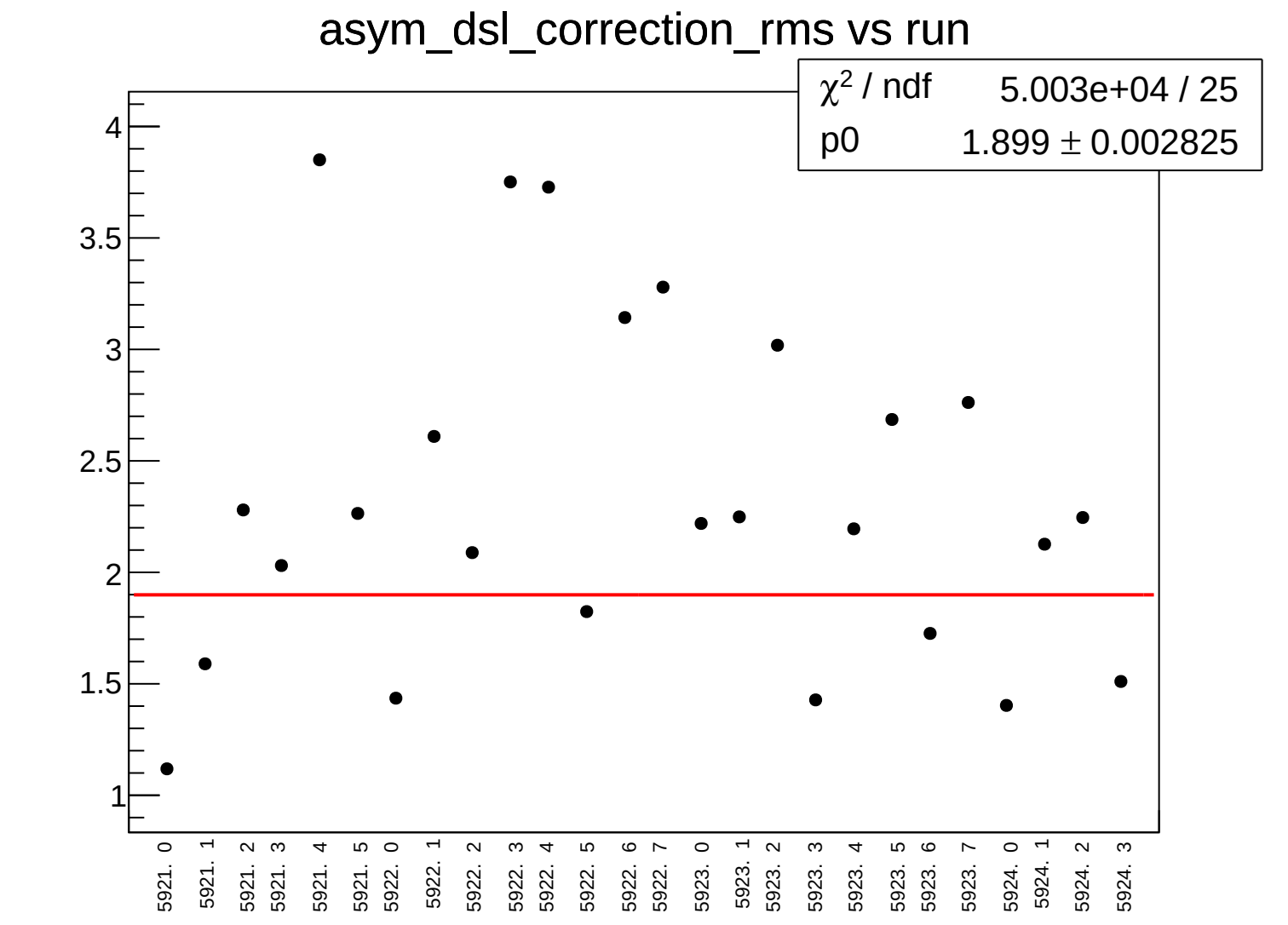

reg_asym_dsl_mean vs run
χ² / ndf 26.02 / 25
p0 −292 ± 201.7
3000
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −51.23
Std Dev 56.49
1.5
1
0.5
0
−0.5
−1
−1.5

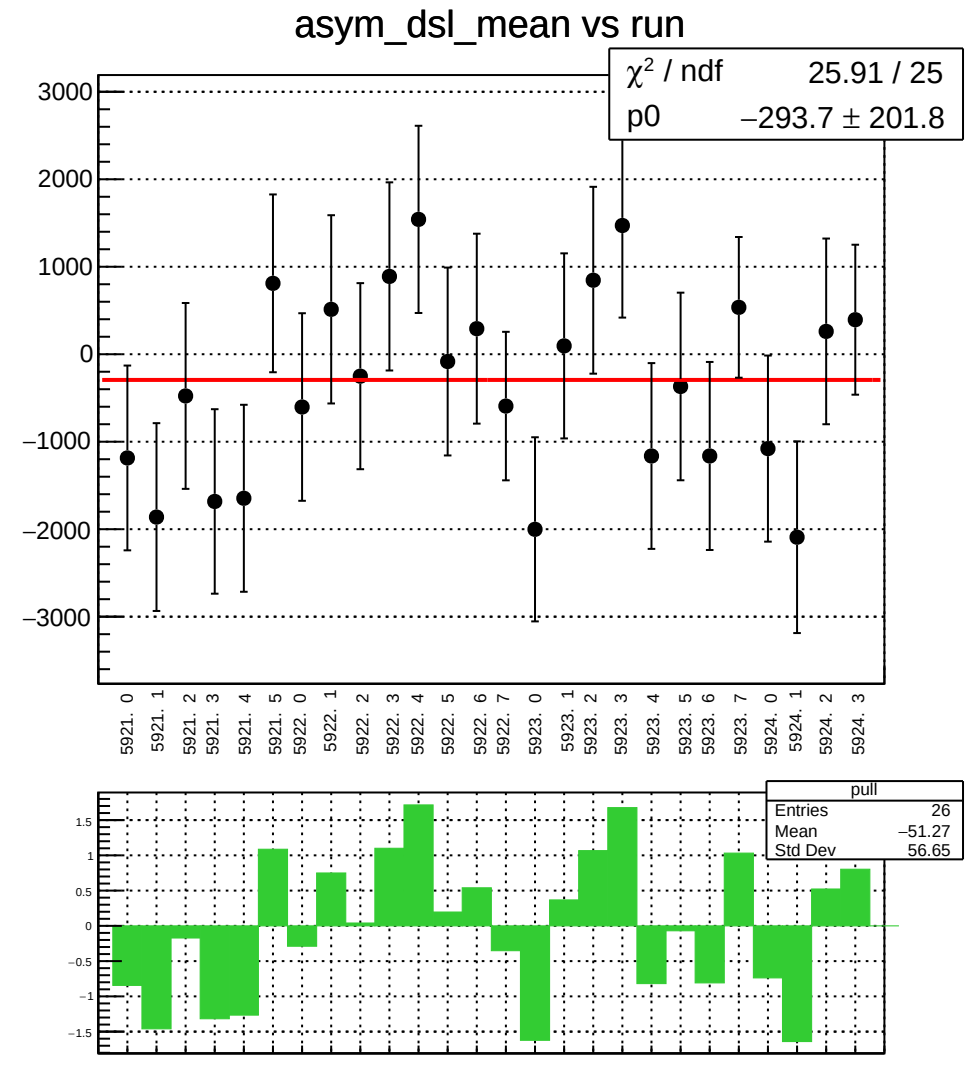

pull1D
Entries 26
Mean −0.01921
Std Dev 1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

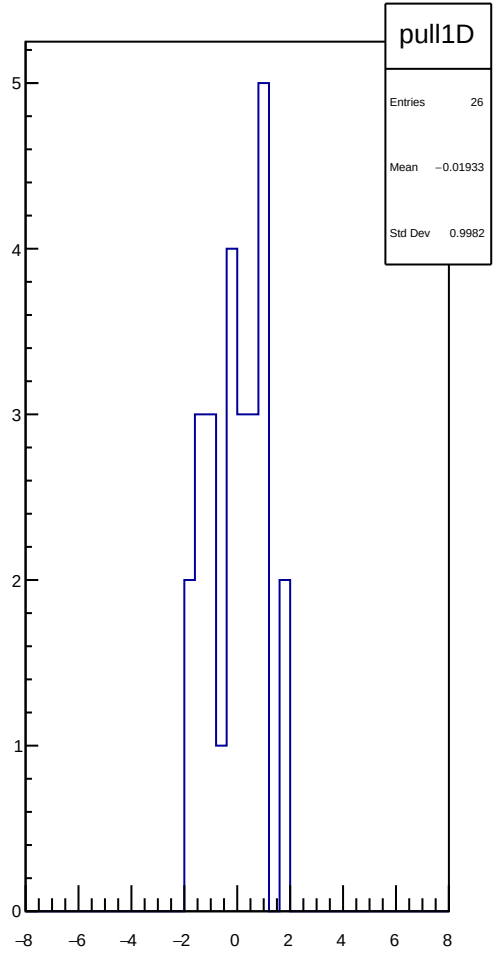

reg_asym_dsl_rms vs run
χ² / ndf 46.83 / 25
p0 101 ± 0.1426
105
104
103
102
101
100
99
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

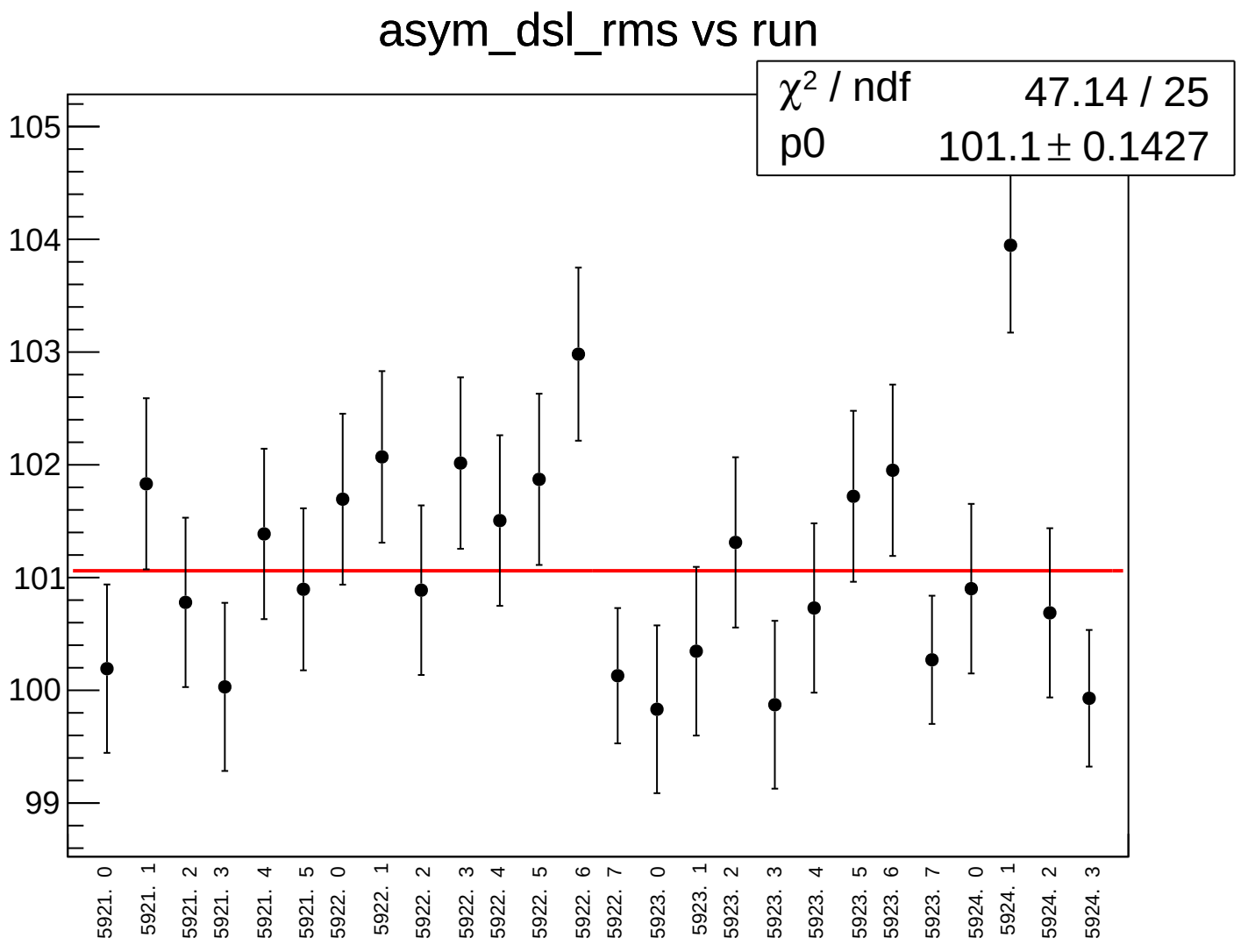

asym_dsl_correction_mean vs run
χ² / ndf 16.58 / 25
p0 0.09905 ± 3.996
80
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 11.68
Std Dev 10.93
2
1.5
1
0.5
0
−0.5
−1

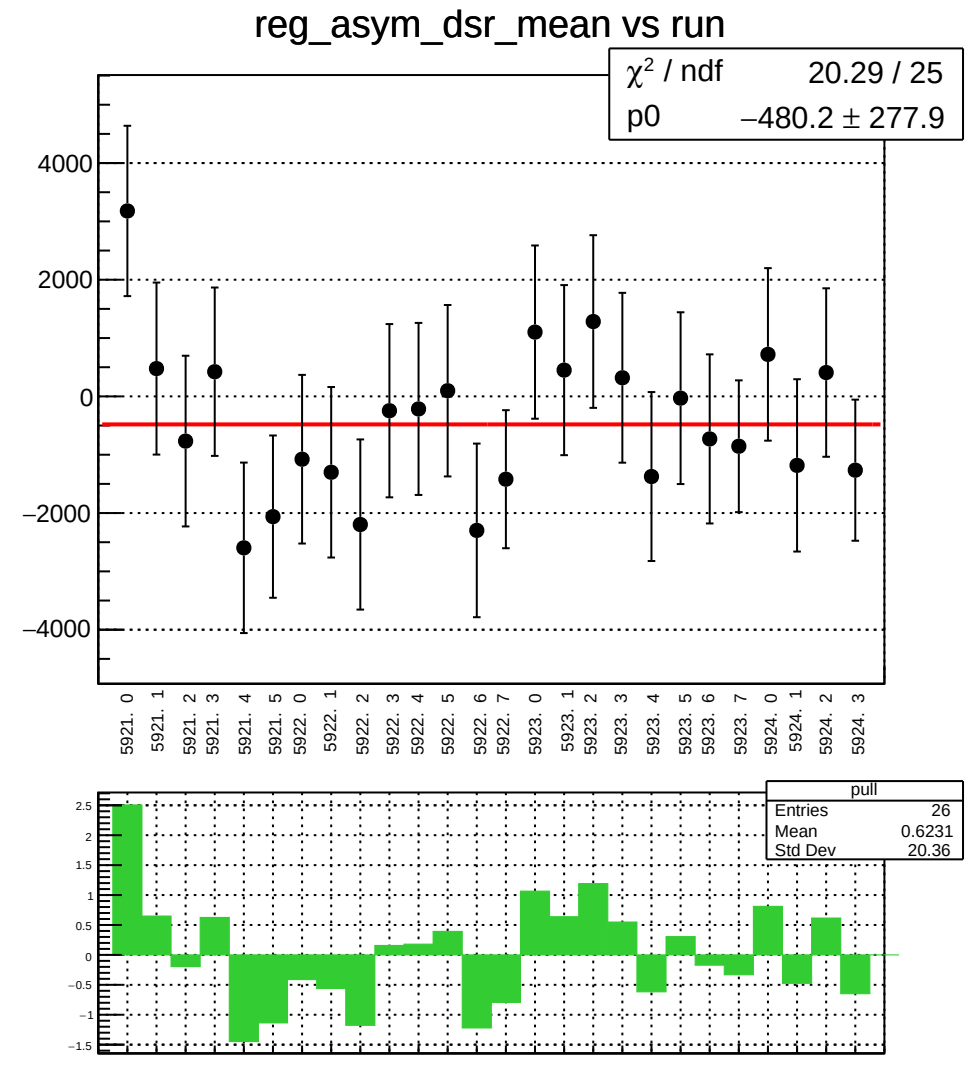

pull1D
Entries 26
Mean 0.05659
Std Dev 0.7967
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

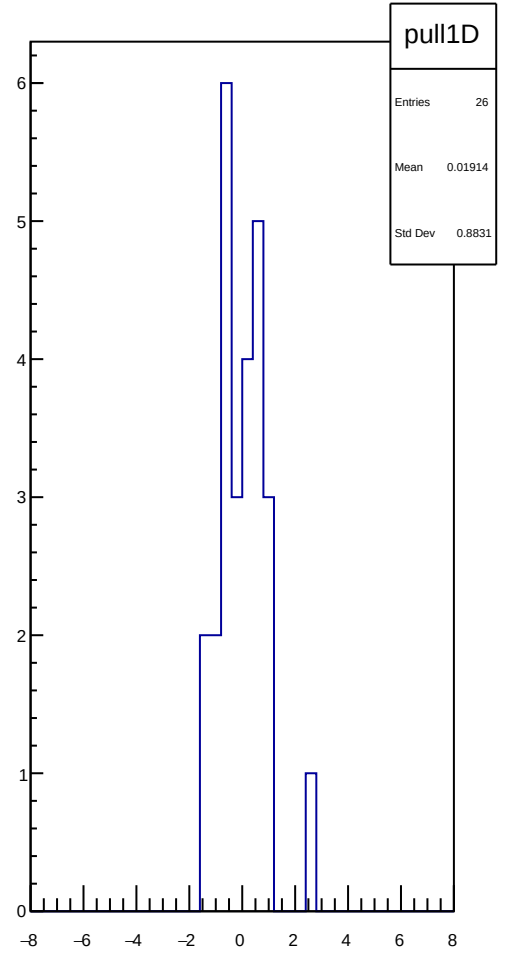

asym_dsl_correction_rms vs run
$\chi^2$ / ndf 5.003e+04 / 25
p0 1.899 ± 0.002825
4
3.5
3
2.5
2
1.5
1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

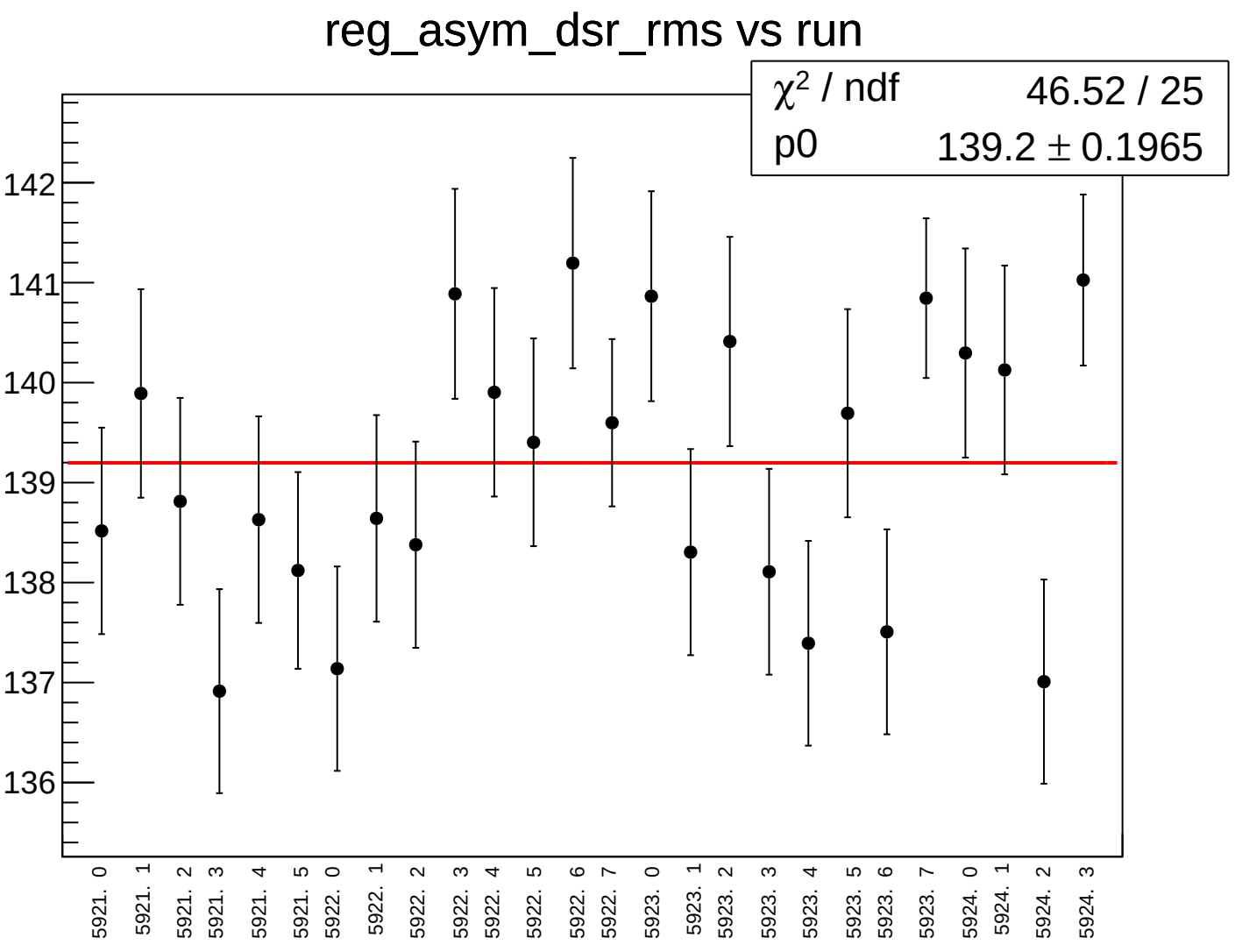

asym_dsl_mean vs run
χ² / ndf 25.91 / 25
p0 −293.7 ± 201.8
3000
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −51.27
Std Dev 56.65
1.5
1
0.5
0
−0.5
−1
−1.5

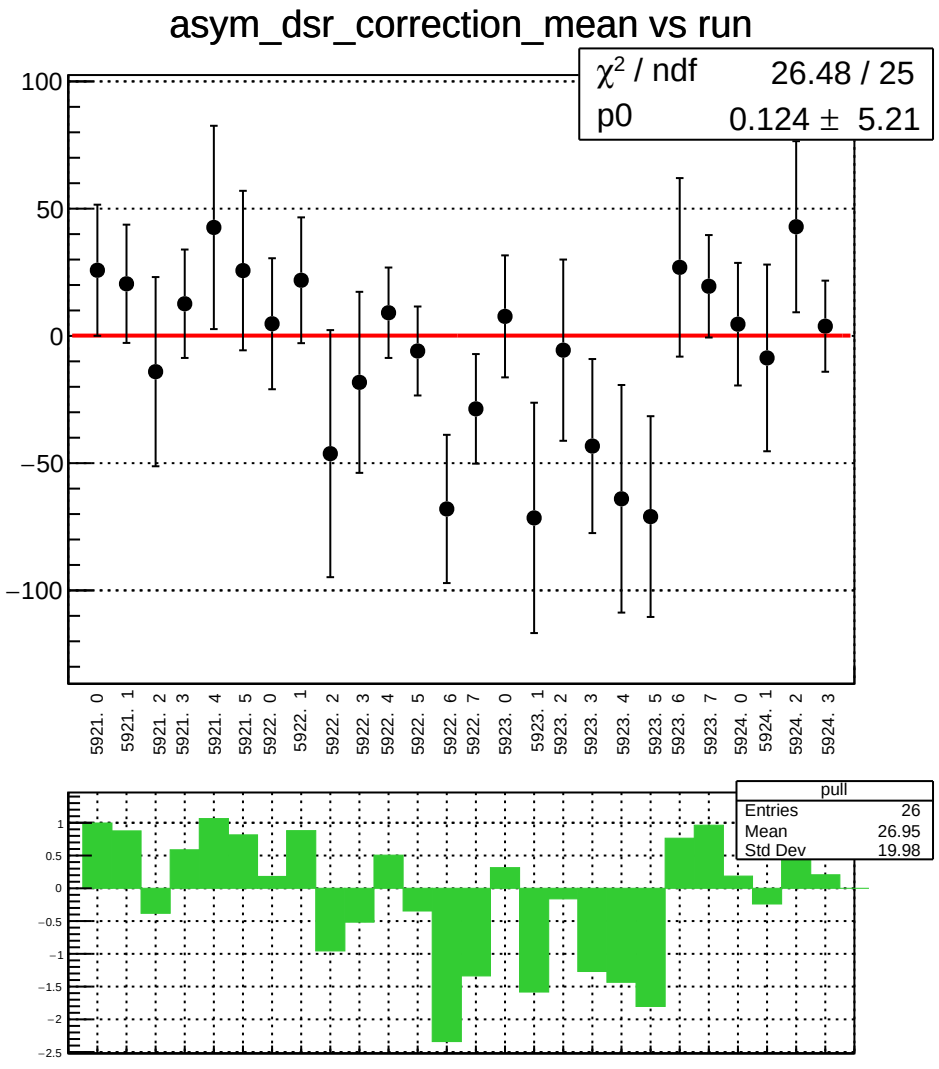

pull1D
Entries 26
Mean −0.01933
Std Dev 0.9982
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

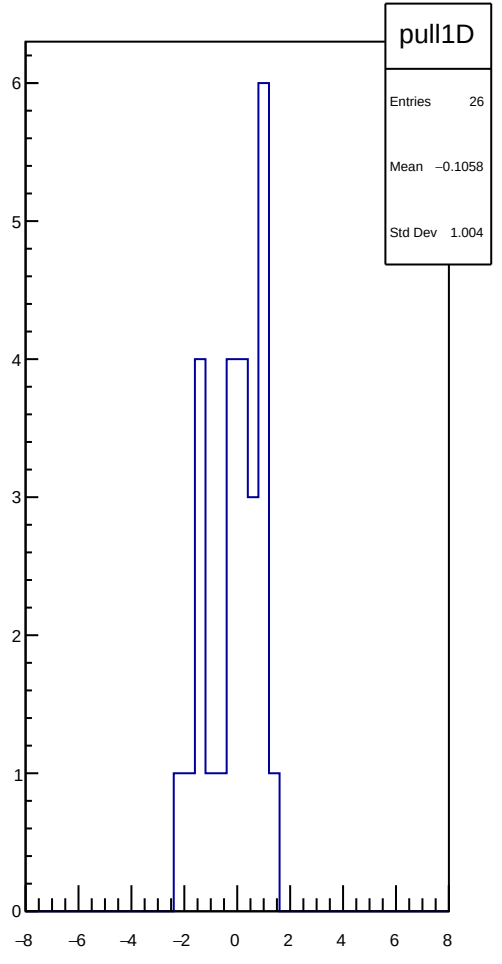

asym_dsl_rms vs run
χ² / ndf 47.14 / 25
p0 101.1 ± 0.1427
105
104
103
102
101
100
99
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

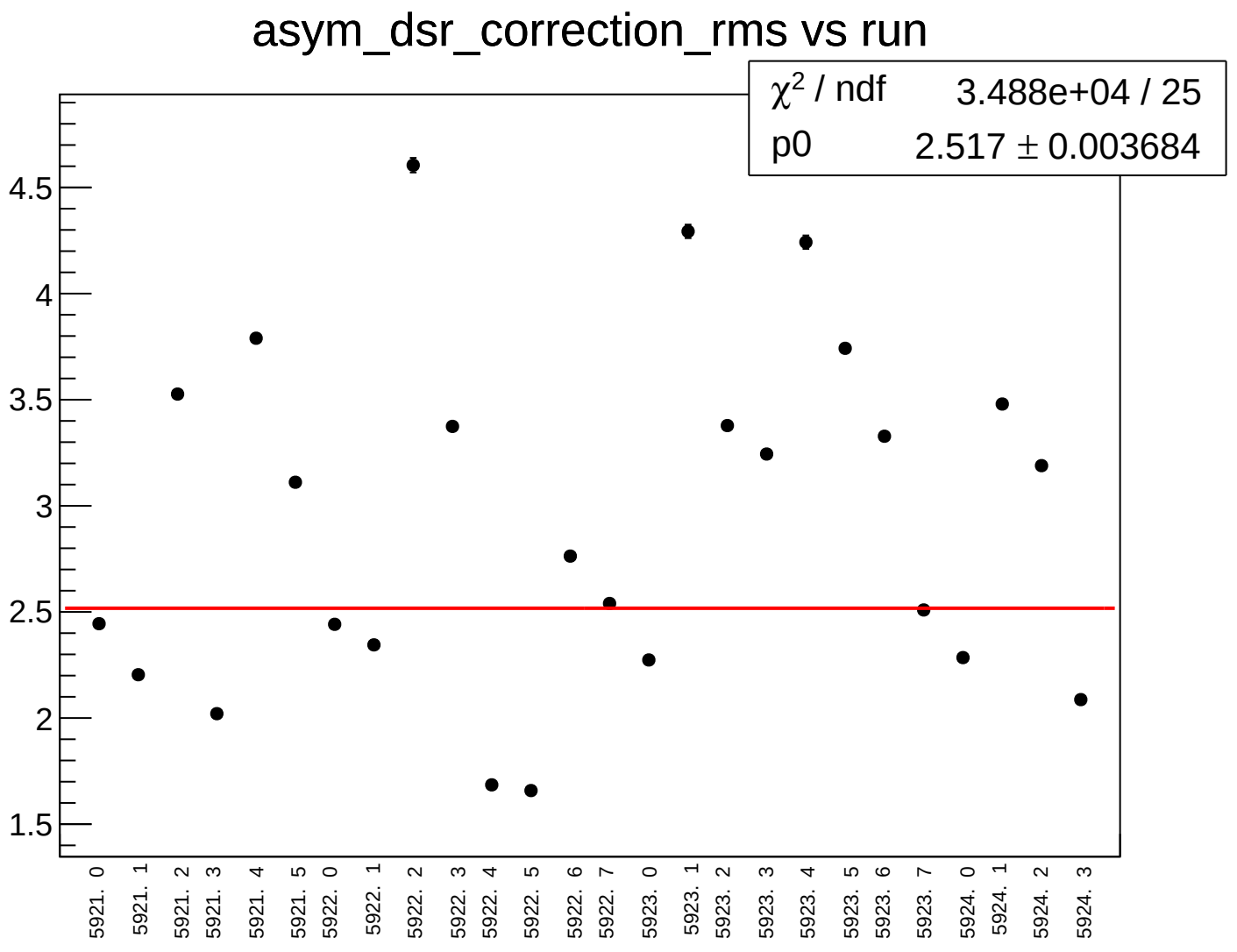

reg_asym_dsr_mean vs run
χ² / ndf 20.29 / 25
p0 −480.2 ± 277.9
4000
2000
0
−2000
−4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 0.6231
Std Dev 20.36
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

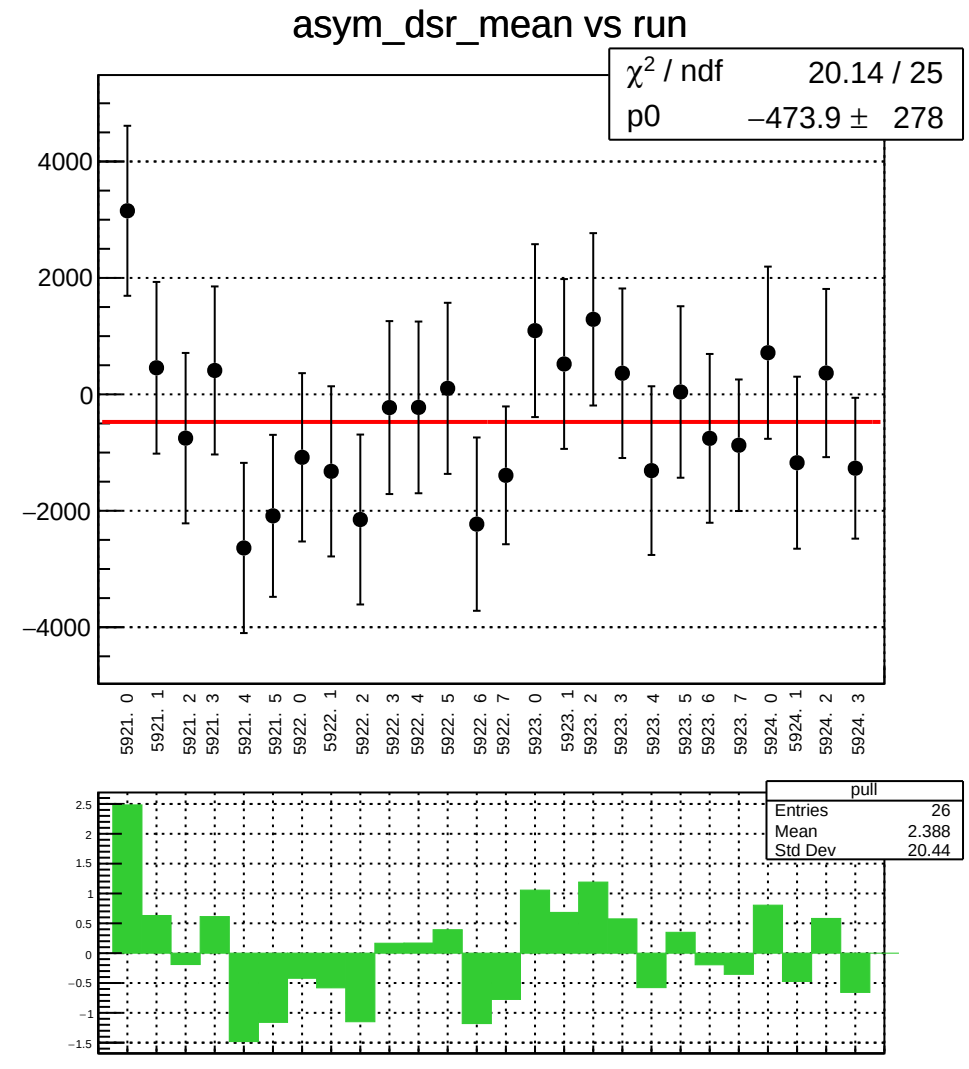

pull1D
Entries 26
Mean 0.01914
Std Dev 0.8831
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

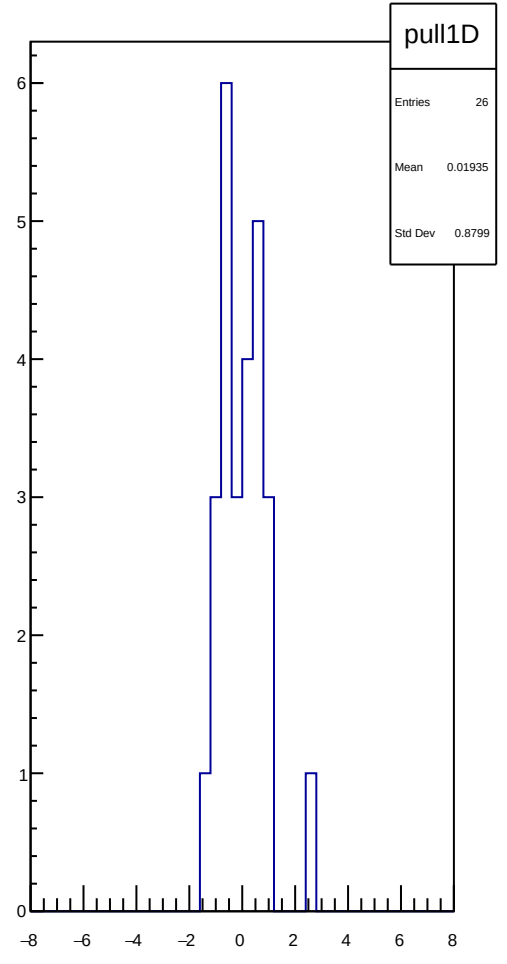

reg_asym_dsr_rms vs run
χ² / ndf 46.52 / 25
p0 139.2 ± 0.1965
142
141
140
139
138
137
136
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

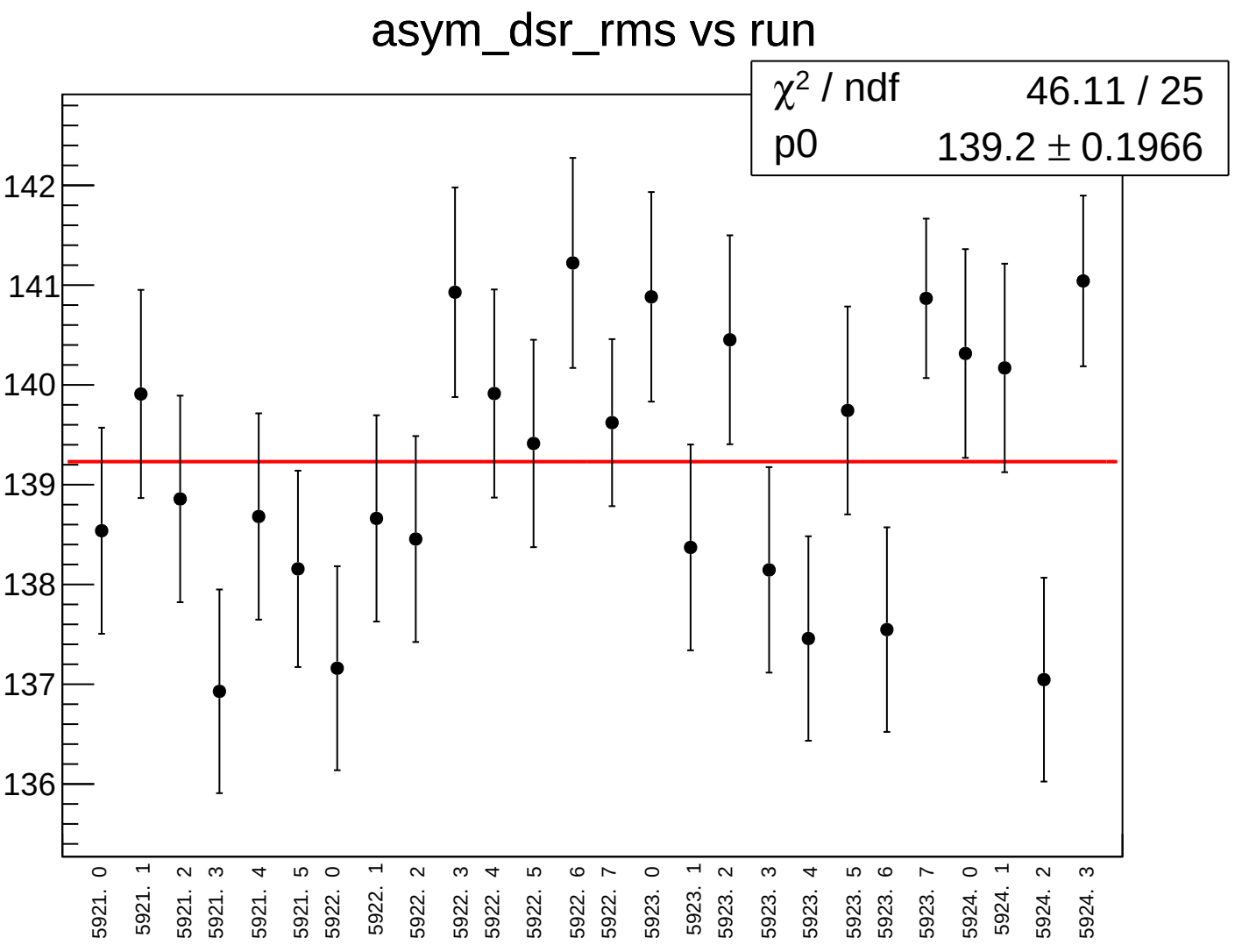

asym_dsr_correction_mean vs run
χ² / ndf 26.48 / 25
p0 0.124 ± 5.21
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 26.95
Std Dev 19.98
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

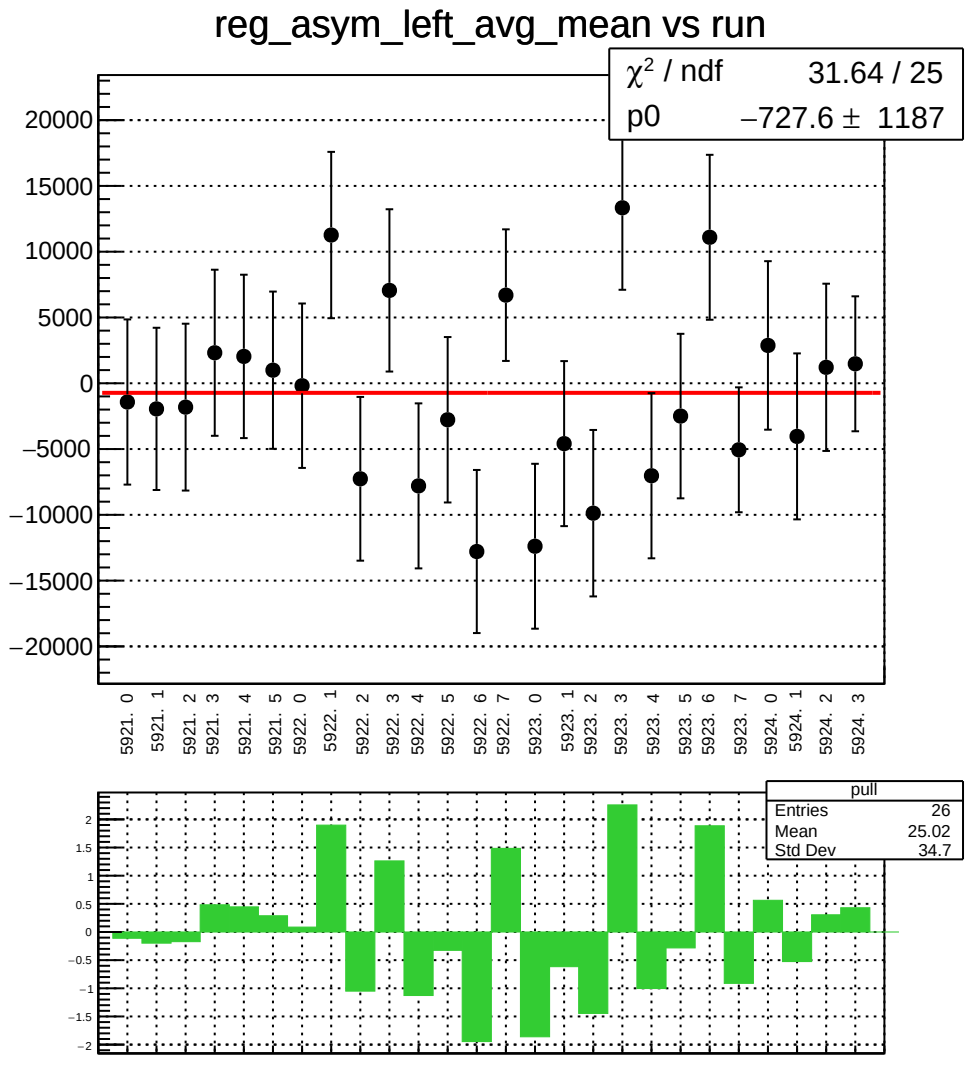

pull1D
Entries 26
Mean −0.1058
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

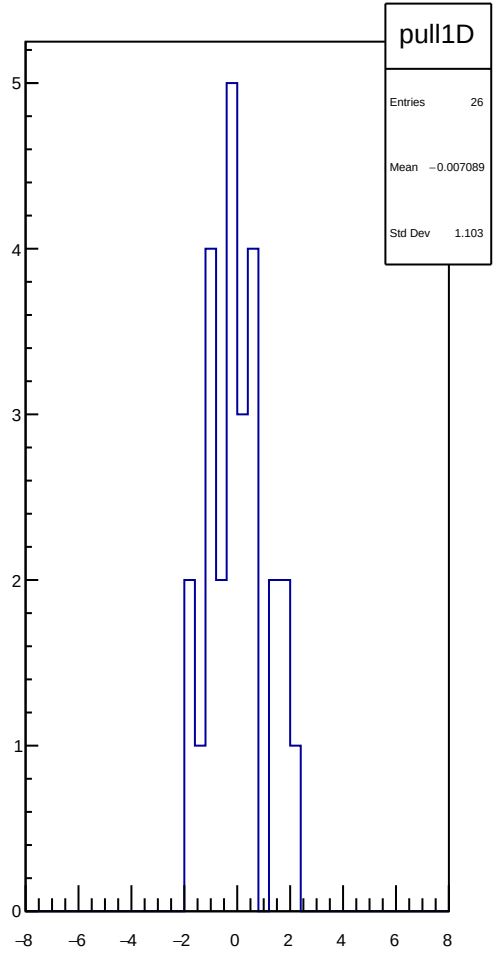

asym_dsr_correction_rms vs run
χ² / ndf 3.488e+04 / 25
p0 2.517 ± 0.003684
4.5
4
3.5
3
2.5
2
1.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

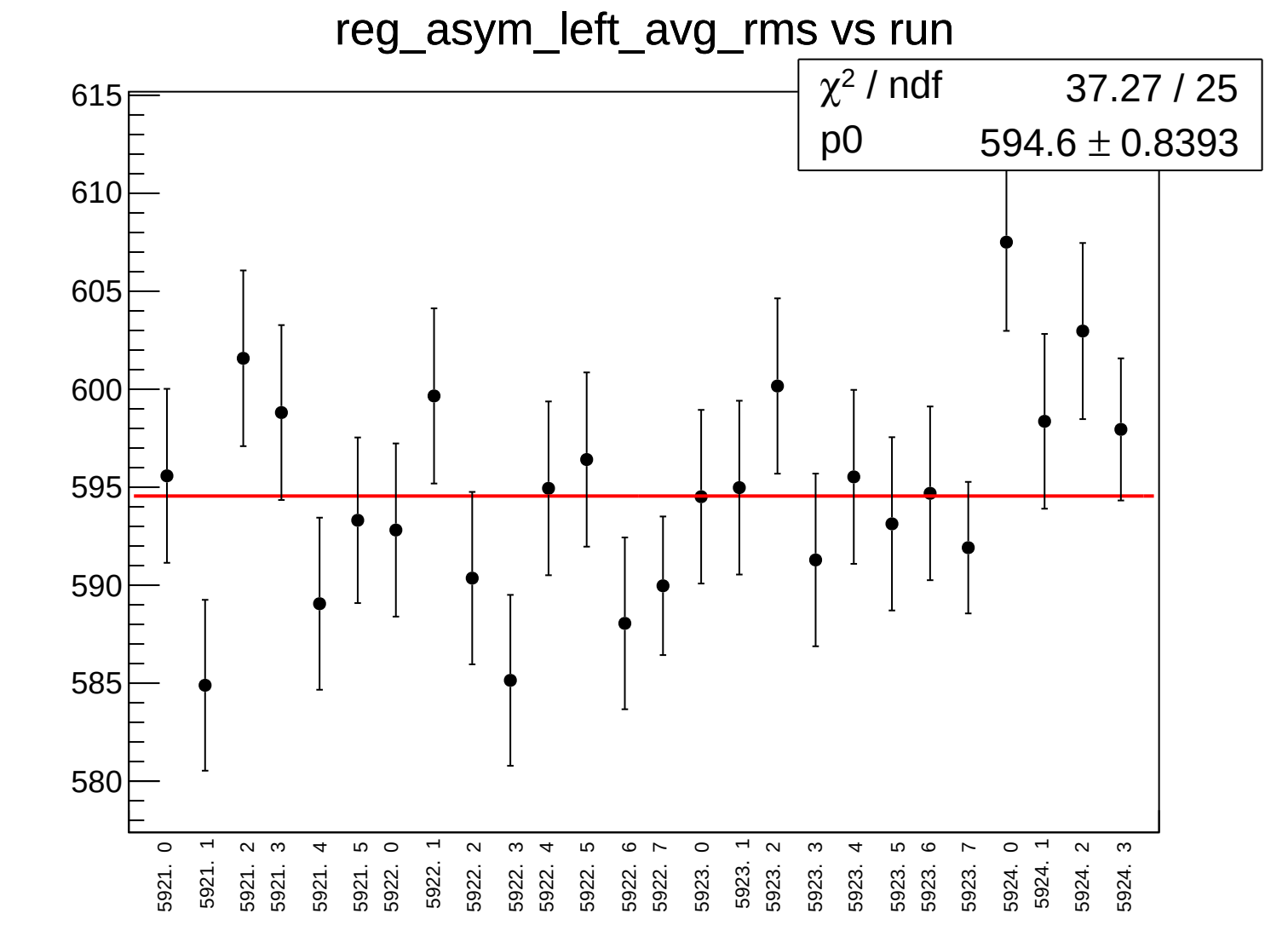

asym_dsr_mean vs run
χ² / ndf 20.14 / 25
p0 −473.9 ± 278
4000
2000
0
−2000
−4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 2.388
Std Dev 20.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

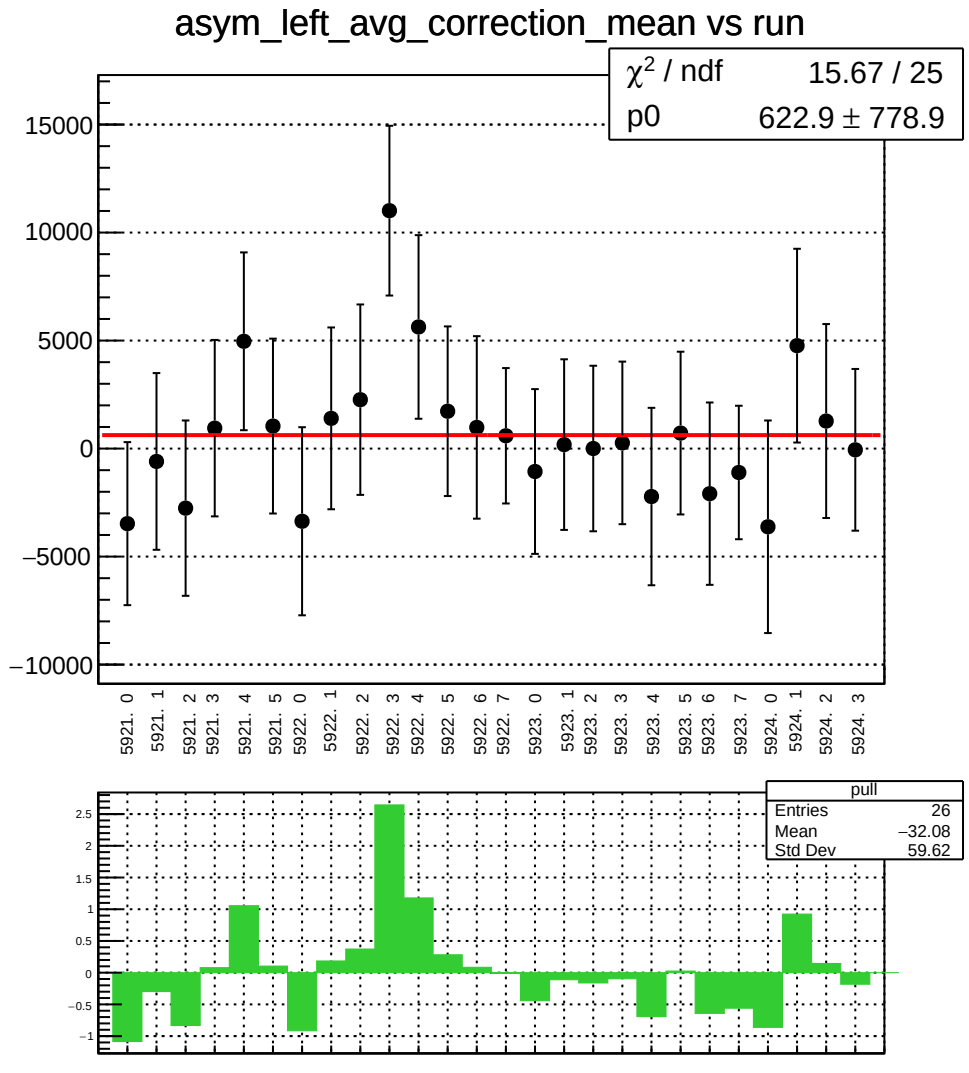

pull1D
Entries 26
Mean 0.01935
Std Dev 0.8799
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

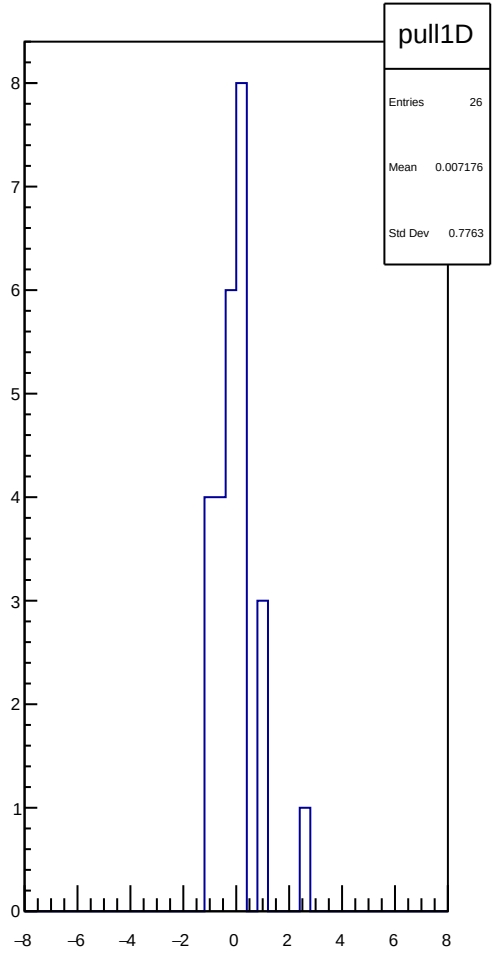

asym_dsr_rms vs run
χ² / ndf 46.11 / 25
p0 139.2 ± 0.1966
142
141
140
139
138
137
136
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

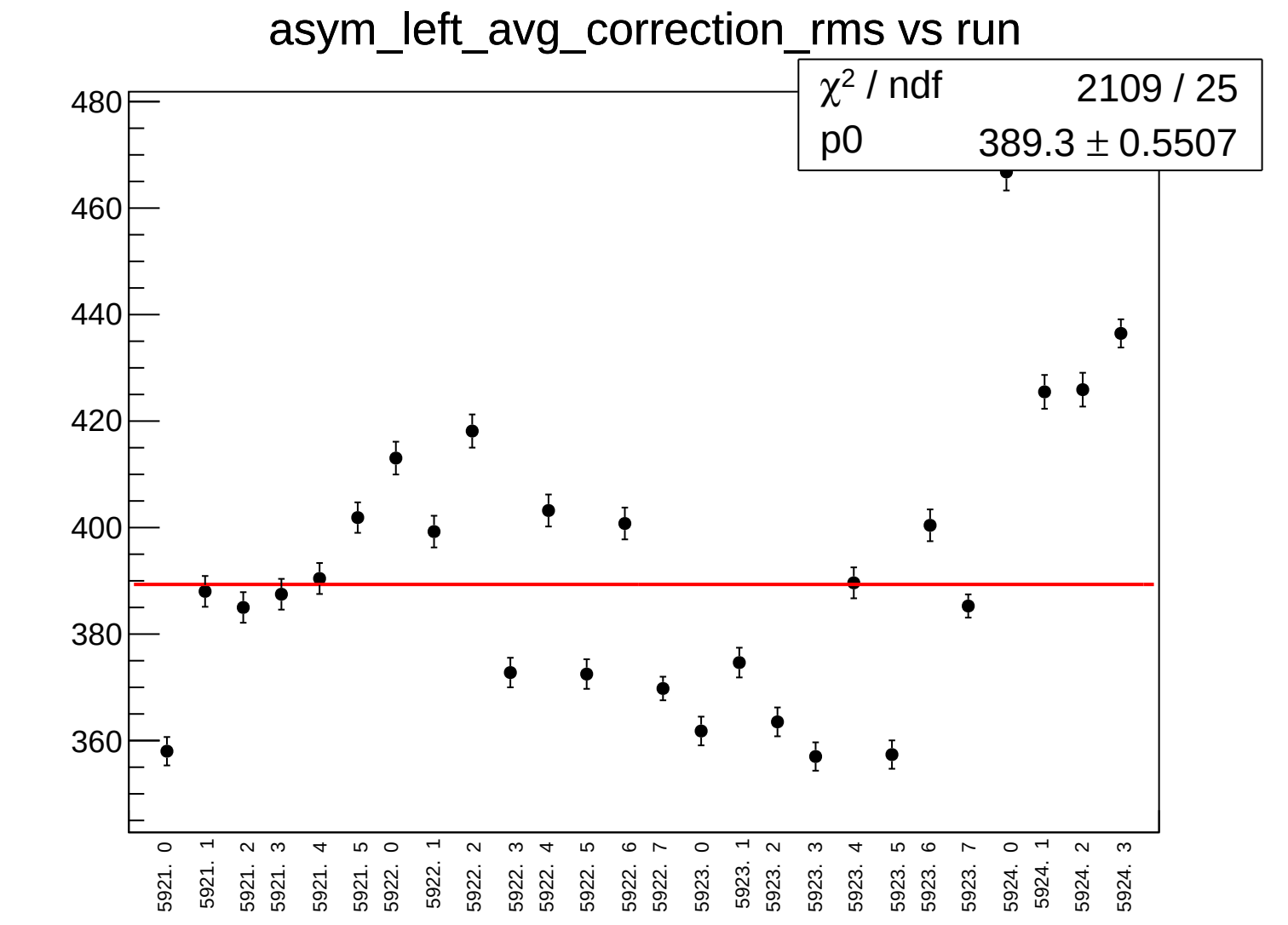

reg_asym_left_avg_mean vs run
χ² / ndf 31.64 / 25
p0 −727.6 ± 1187
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 25.02
Std Dev 34.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

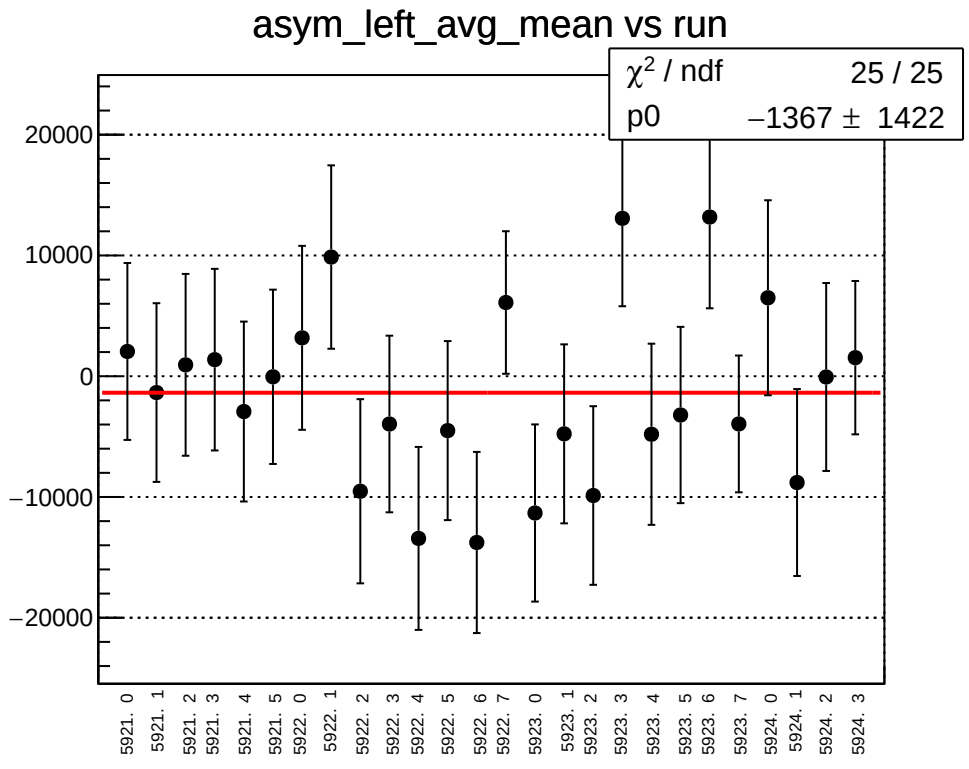

pull1D
Entries 26
Mean −0.007089
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

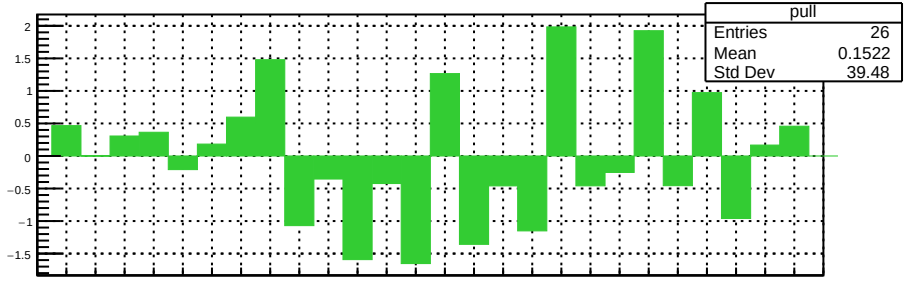

reg_asym_left_avg_rms vs run
χ² / ndf 37.27 / 25
p0 594.6 ± 0.8393
615
610
605
600
595
590
585
580
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

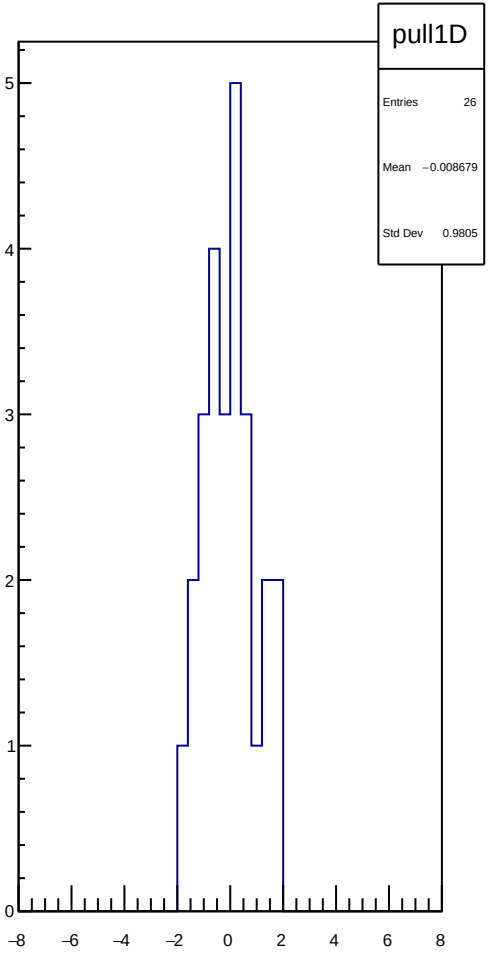

asym_left_avg_correction_mean vs run
χ² / ndf 15.67 / 25
p0 622.9 ± 778.9
15000
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −32.08
Std Dev 59.62
2.5
2
1.5
1
0.5
0
−0.5
−1

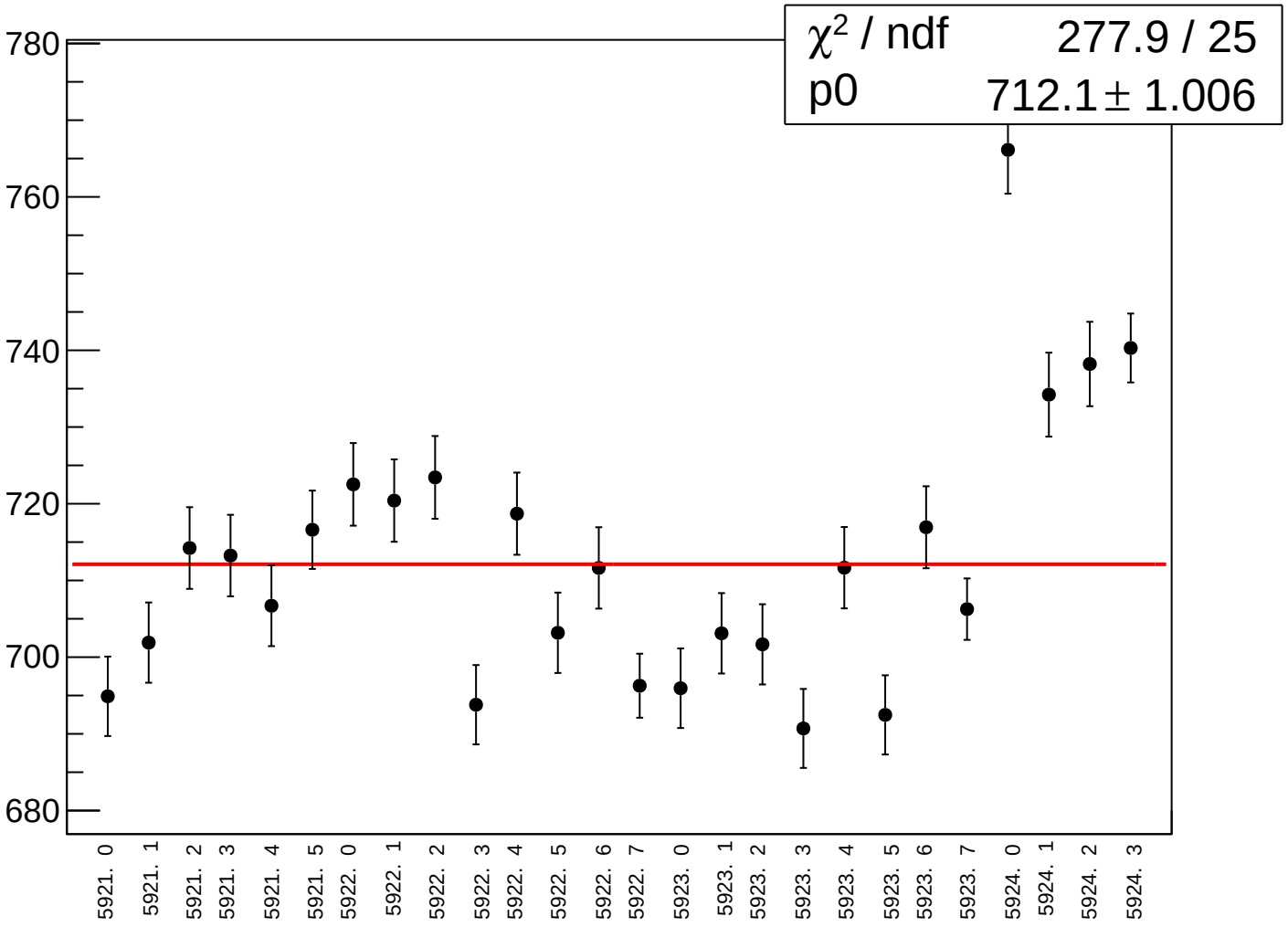

pull1D
Entries 26
Mean 0.007176
Std Dev 0.7763
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

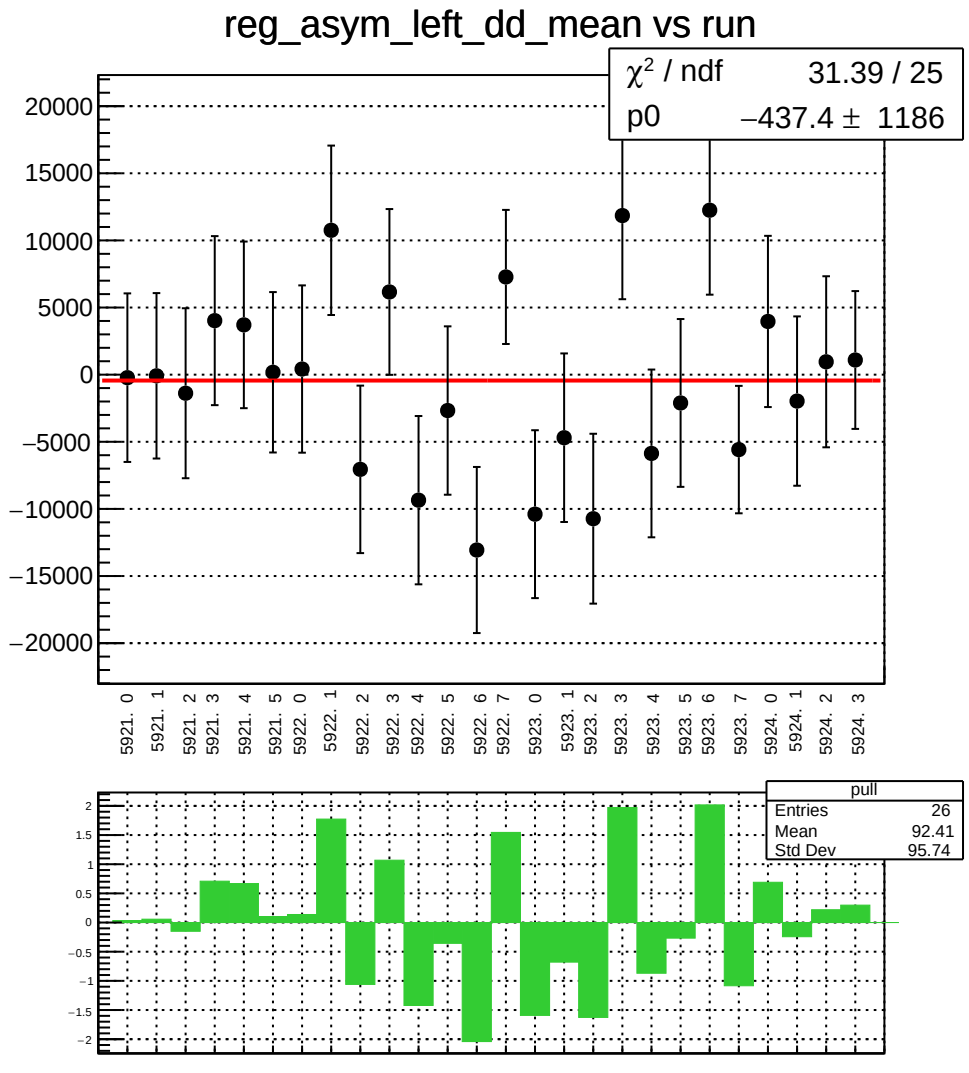

asym_left_avg_correction_rms vs run
χ² / ndf 2109 / 25
p0 389.3 ± 0.5507
480
460
440
420
400
380
360
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

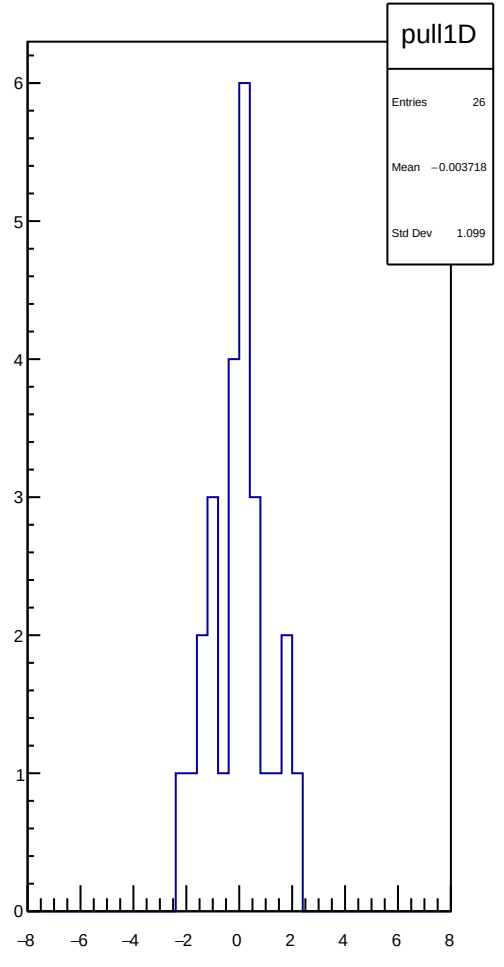

asym_left_avg_mean vs run
χ² / ndf 25 / 25
p0 −1367 ± 1422
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

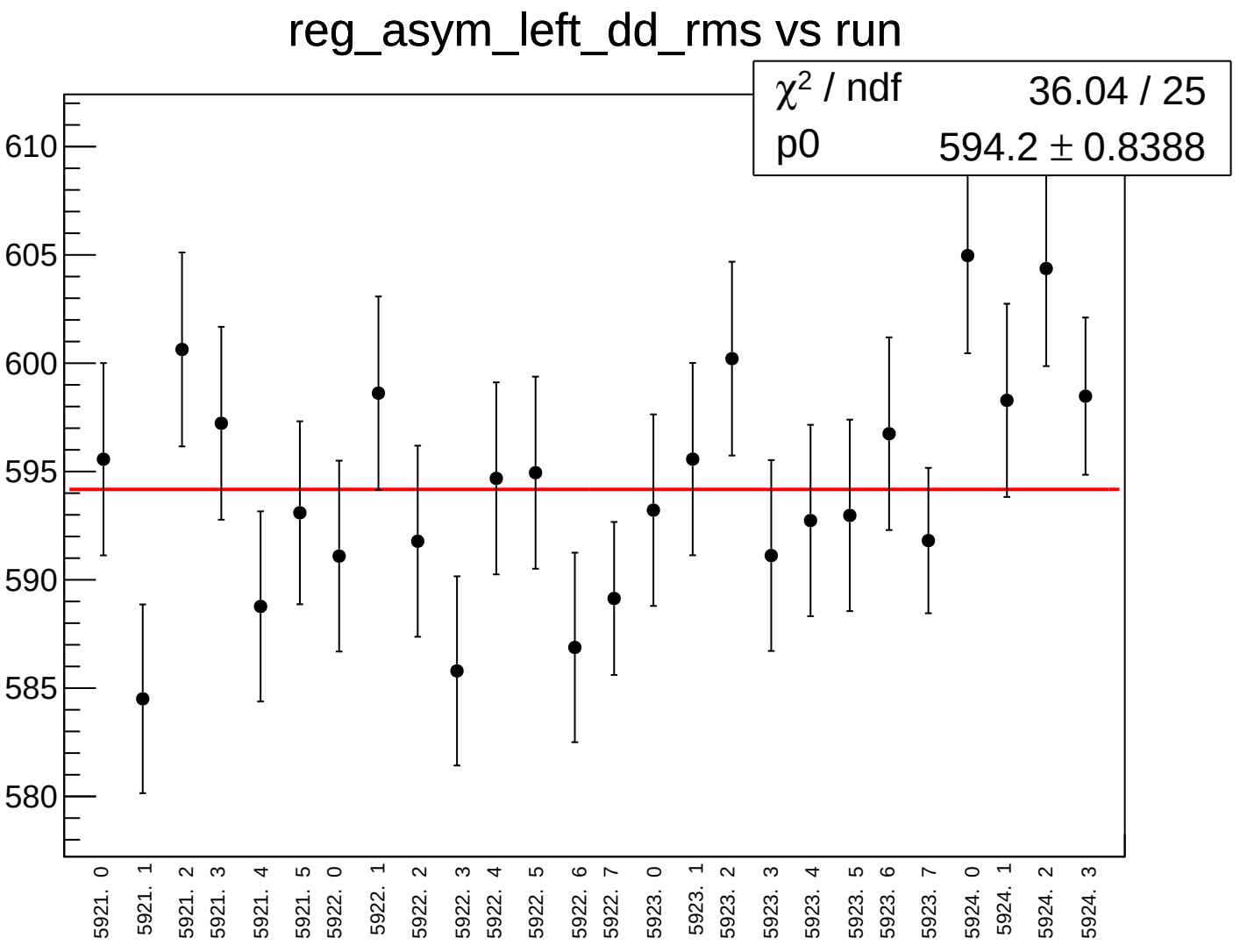

pull
Entries 26
Mean 0.1522
Std Dev 39.48
2
1.5
1
0.5
0
−0.5
−1
−1.5

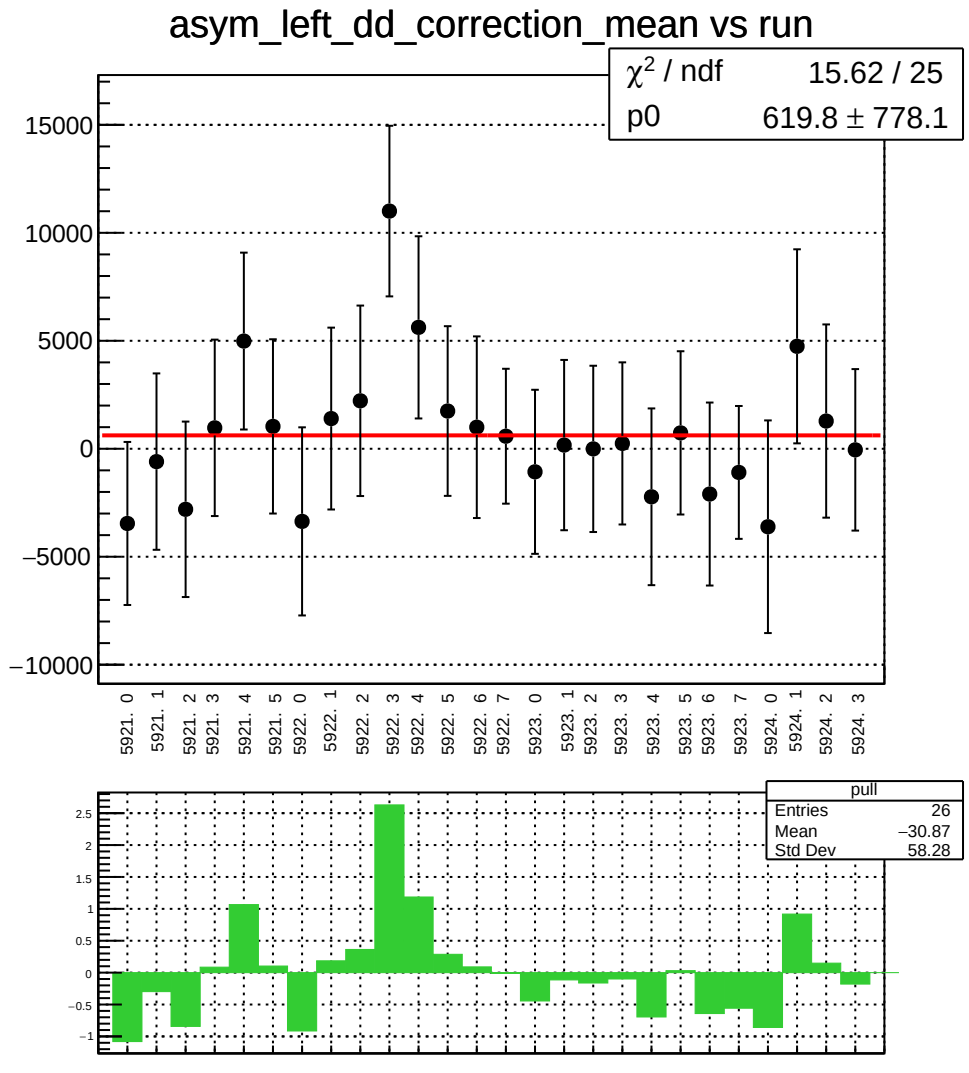

pull1D
Entries 26
Mean −0.008679
Std Dev 0.9805
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

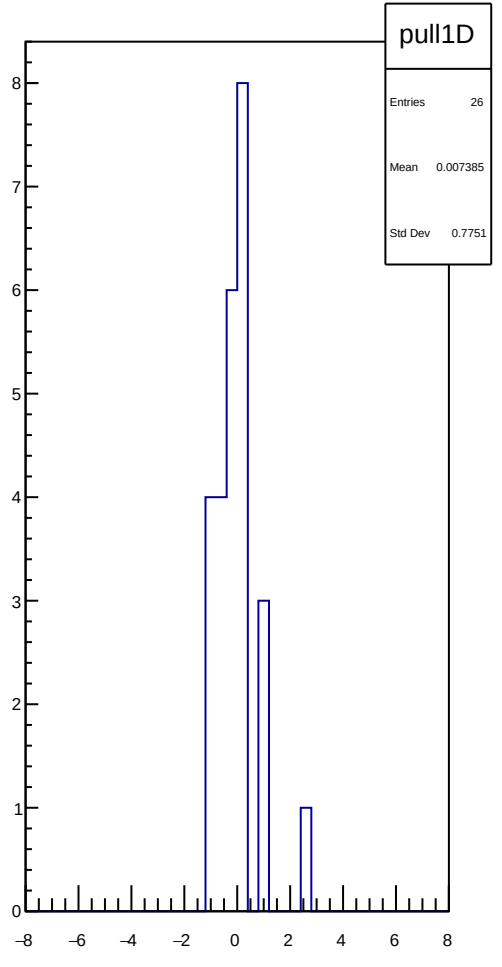

asym_left_avg_rms vs run
χ² / ndf 277.9 / 25
p0 712.1 ± 1.006
780
760
740
720
700
680
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

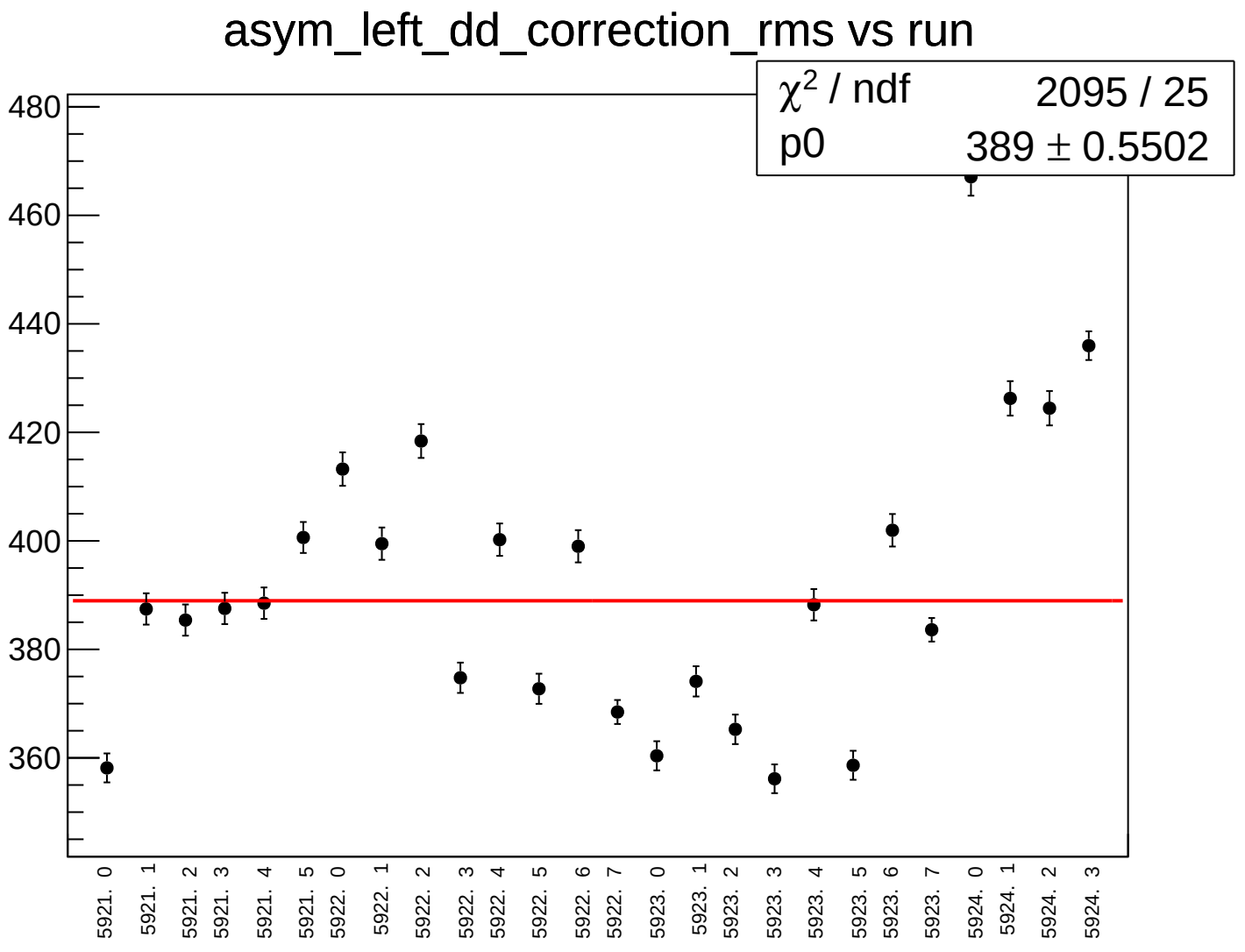

reg_asym_left_dd_mean vs run
χ² / ndf 31.39 / 25
p0 −437.4 ± 1186
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 92.41
Std Dev 95.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

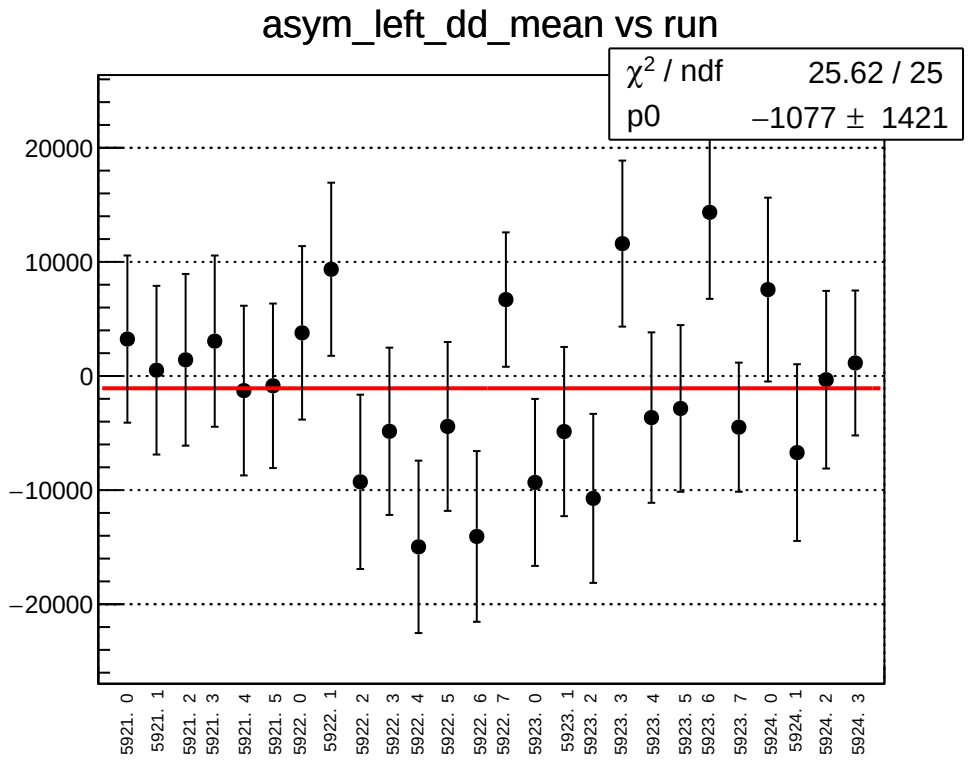

pull1D
Entries 26
Mean −0.003718
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

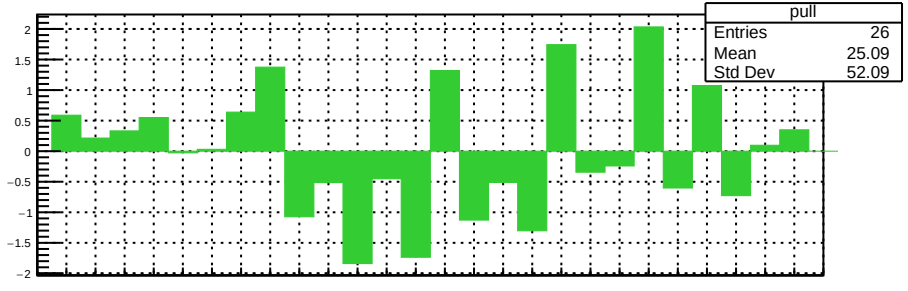

reg_asym_left_dd_rms vs run
χ² / ndf 36.04 / 25
p0 594.2 ± 0.8388
610
605
600
595
590
585
580
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

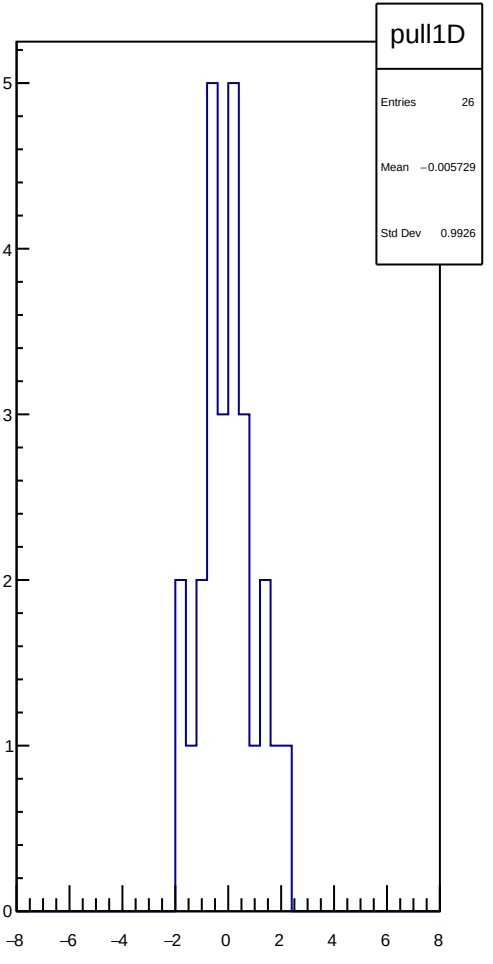

asym_left_dd_correction_mean vs run
χ² / ndf 15.62 / 25
p0 619.8 ± 778.1
15000
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −30.87
Std Dev 58.28
2.5
2
1.5
1
0.5
0
−0.5
−1

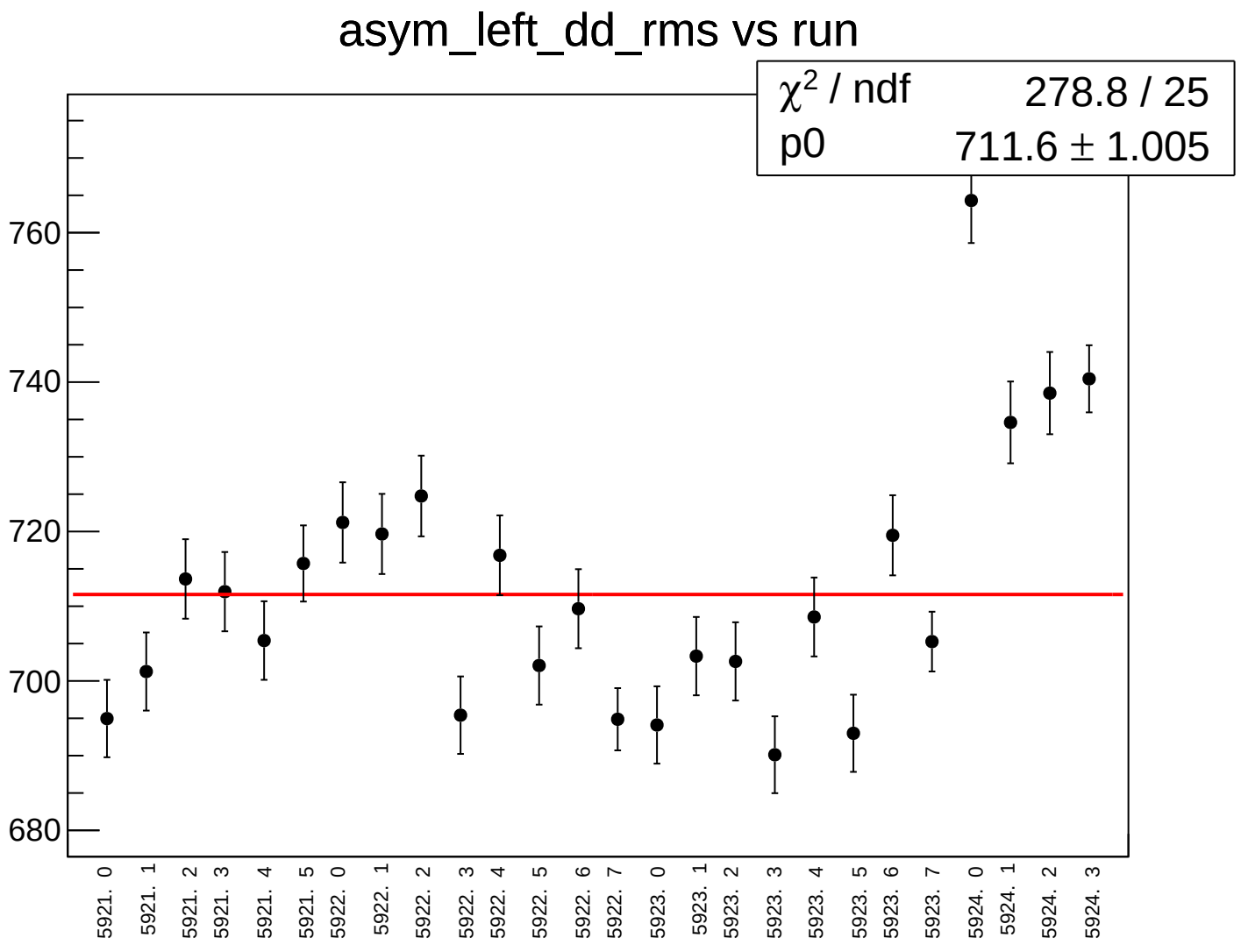

pull1D
Entries 26
Mean 0.007385
Std Dev 0.7751
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

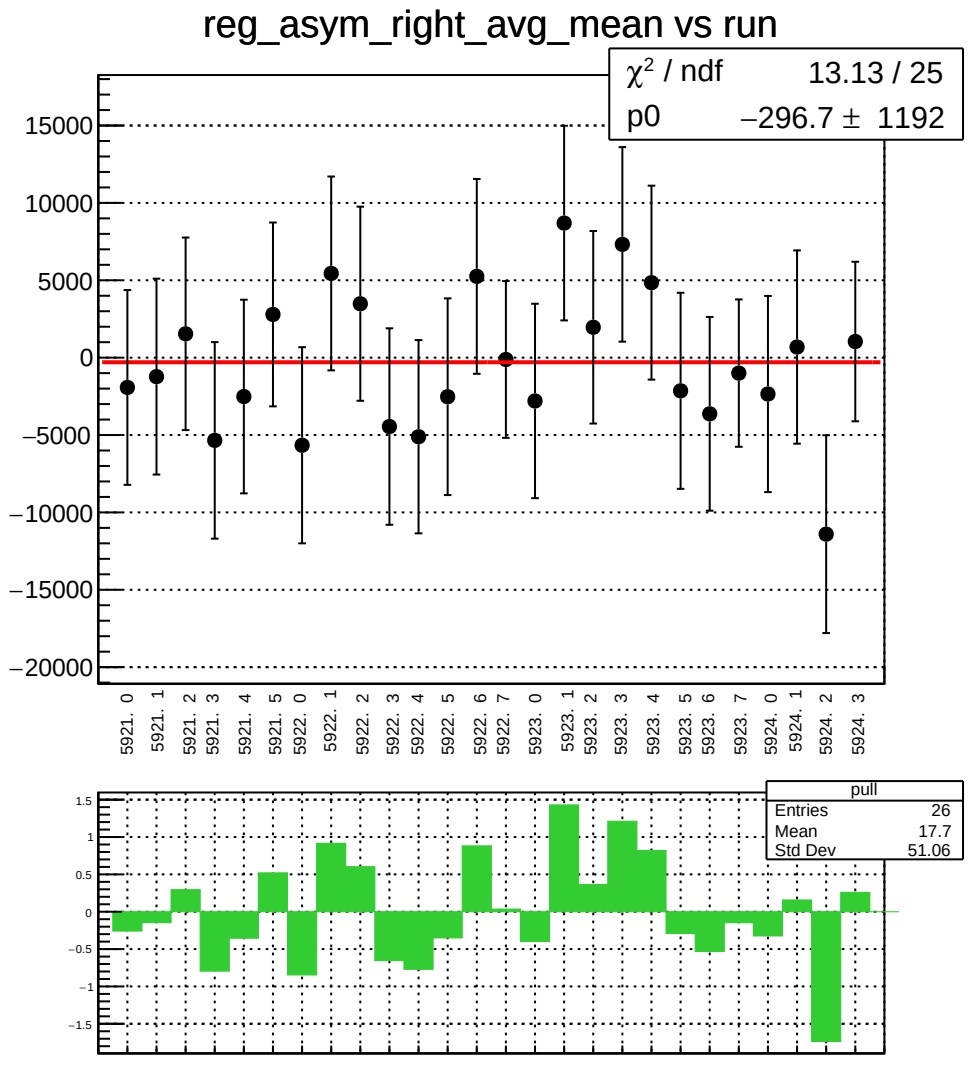

asym_left_dd_correction_rms vs run
χ² / ndf 2095 / 25
p0 389 ± 0.5502
480
460
440
420
400
380
360
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

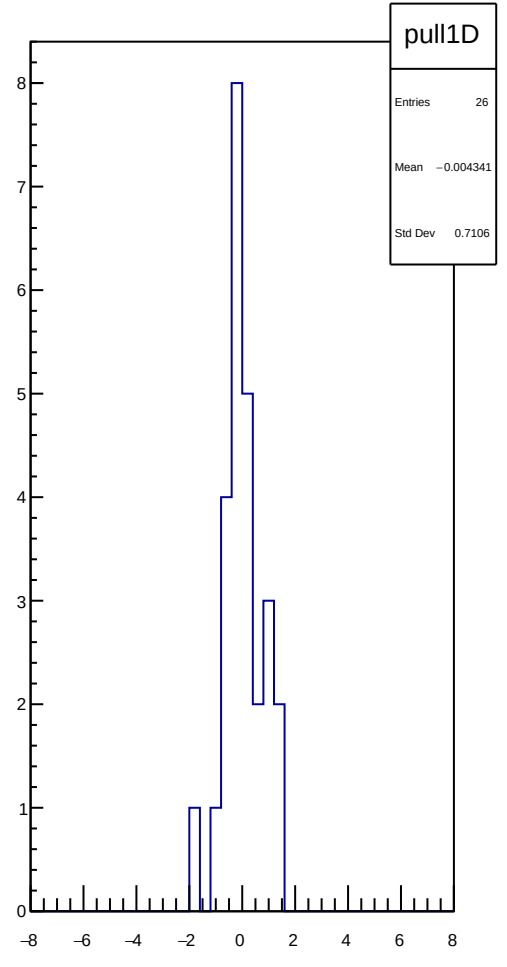

asym_left_dd_mean vs run
χ² / ndf 25.62 / 25
p0 −1077 ± 1421
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

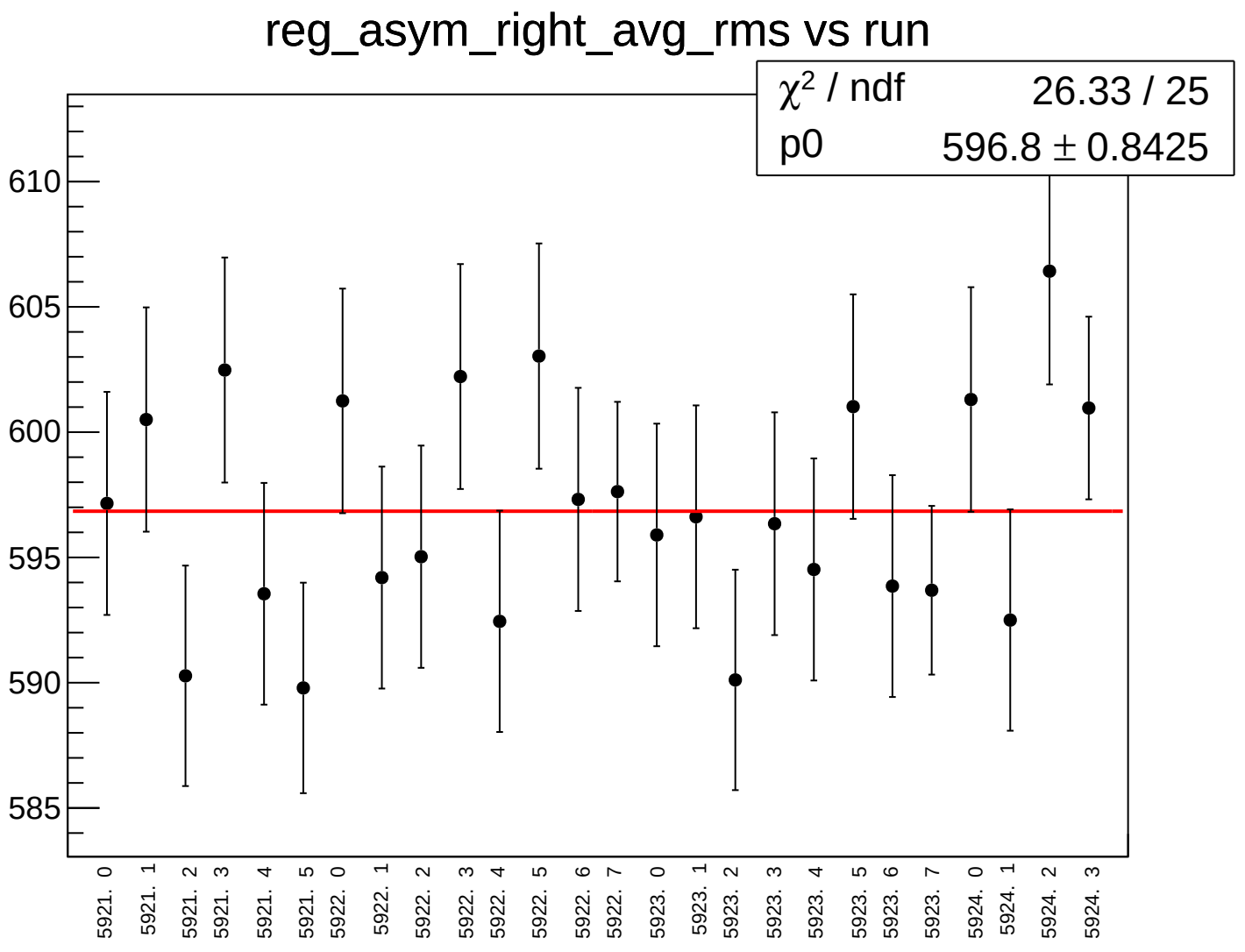

pull
Entries 26
Mean 25.09
Std Dev 52.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

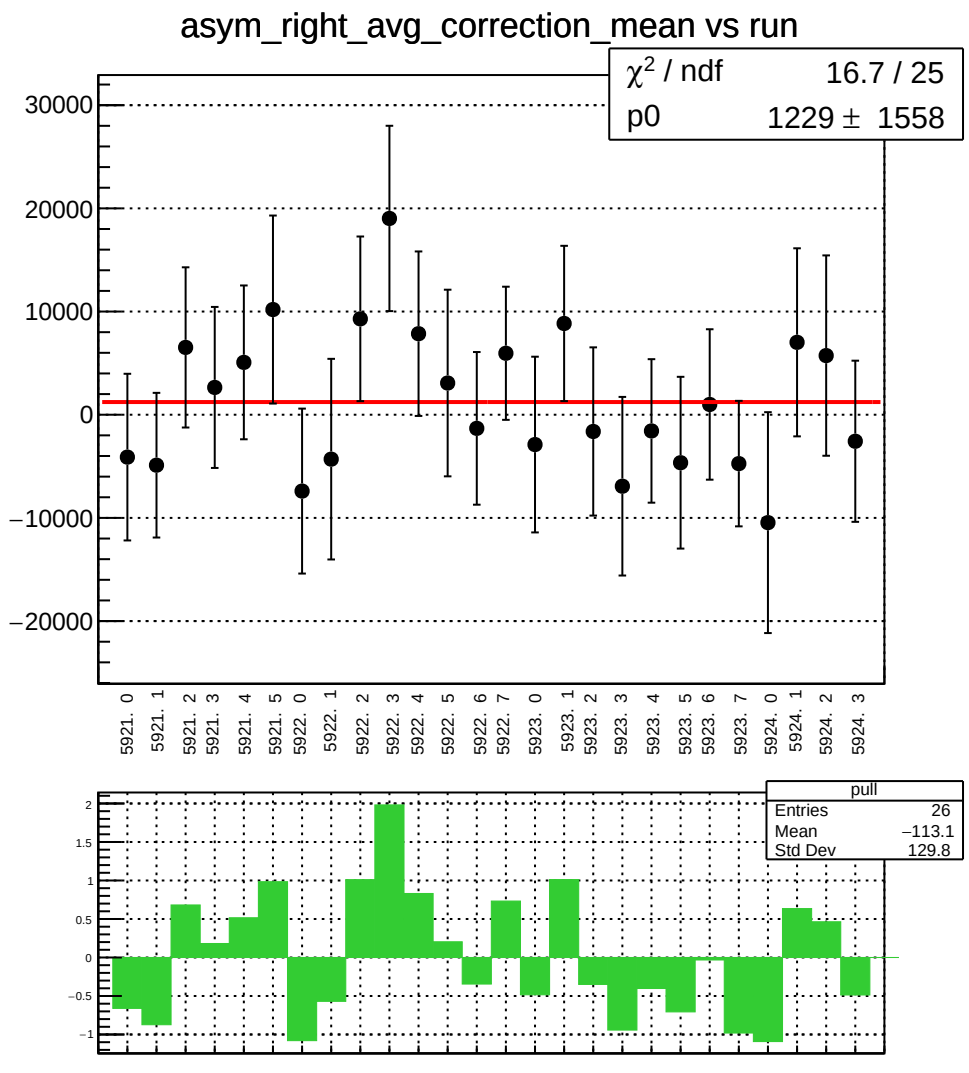

pull1D
Entries 26
Mean −0.005729
Std Dev 0.9926
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

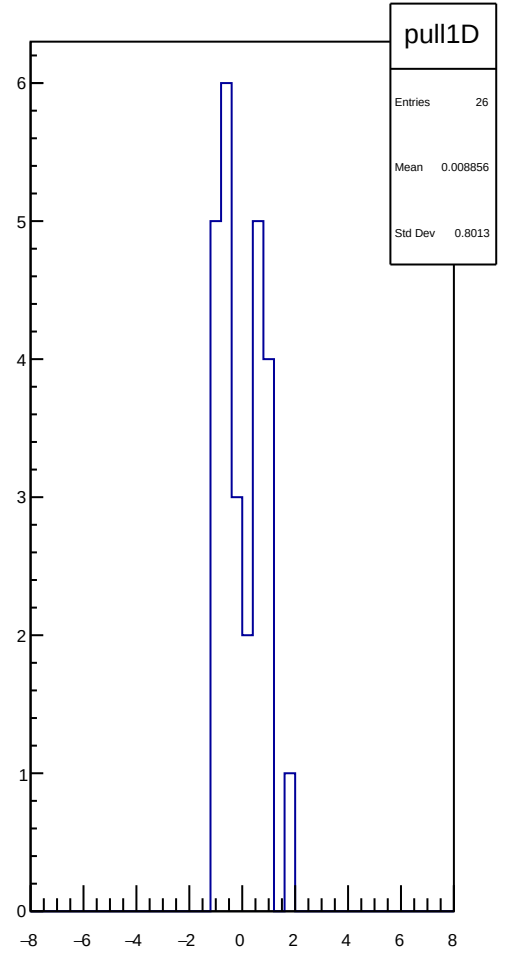

asym_left_dd_rms vs run
χ² / ndf 278.8 / 25
p0 711.6 ± 1.005
760
740
720
700
680
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

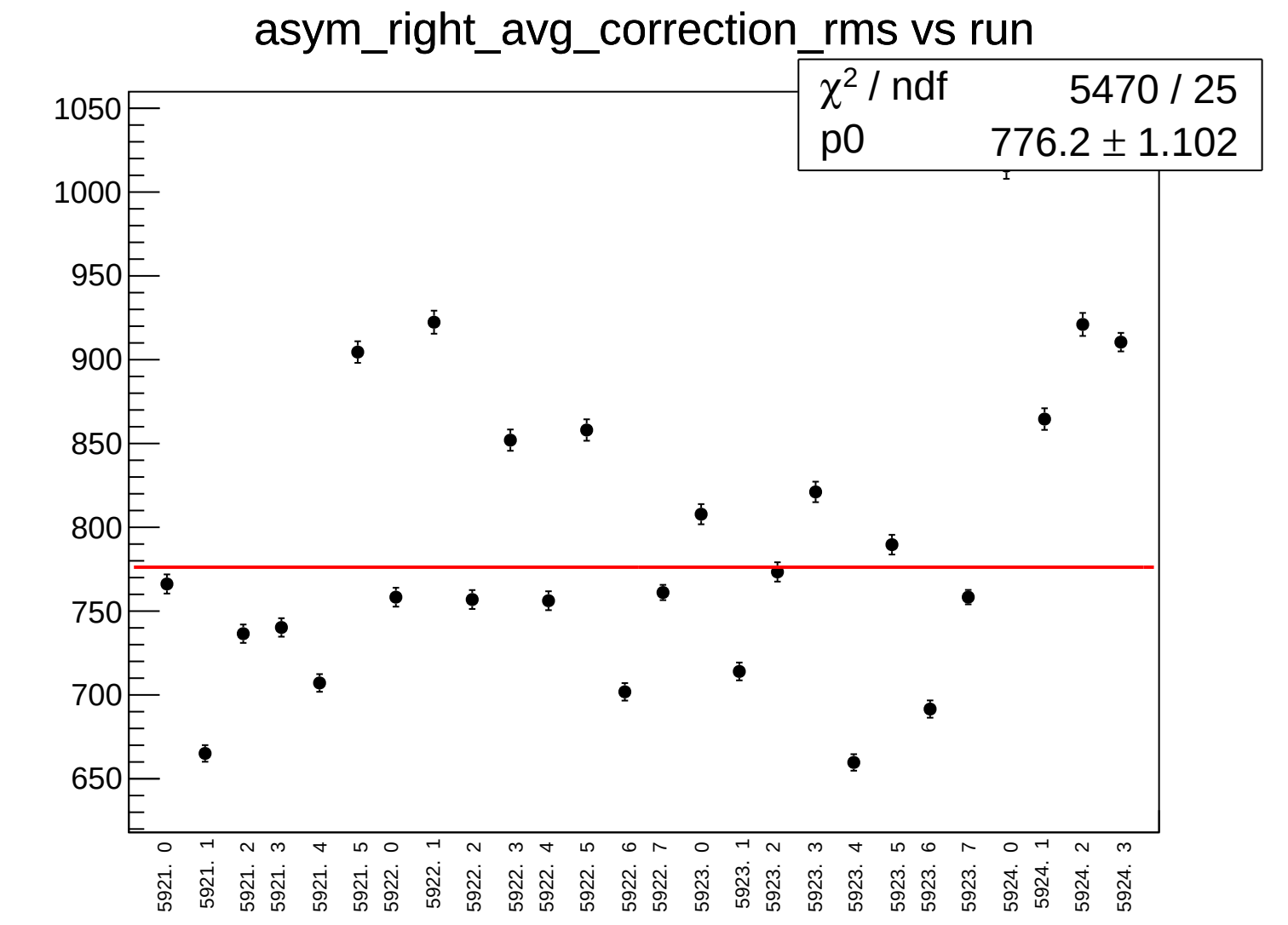

reg_asym_right_avg_mean vs run
χ² / ndf 13.13 / 25
p0 −296.7 ± 1192
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 17.7
Std Dev 51.06
1.5
1
0.5
0
−0.5
−1
−1.5

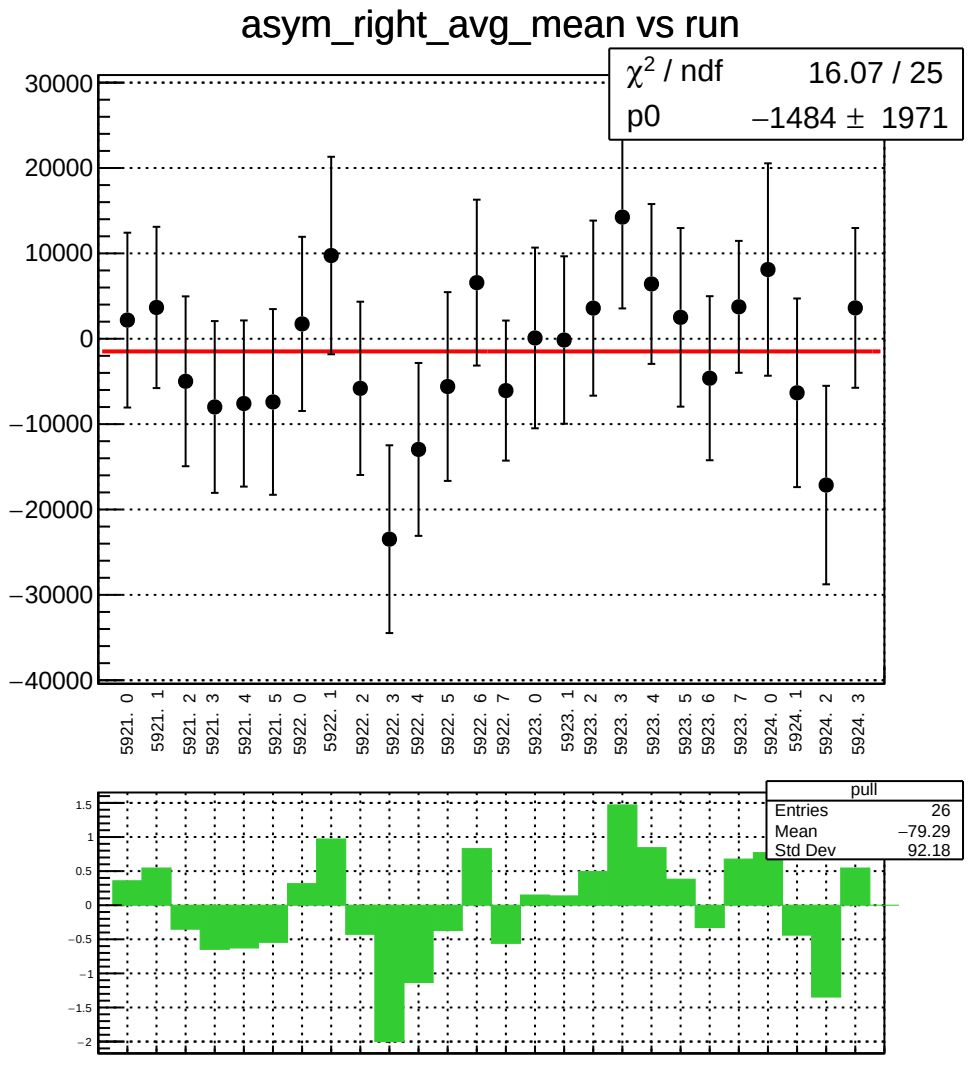

pull1D
Entries 26
Mean −0.004341
Std Dev 0.7106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

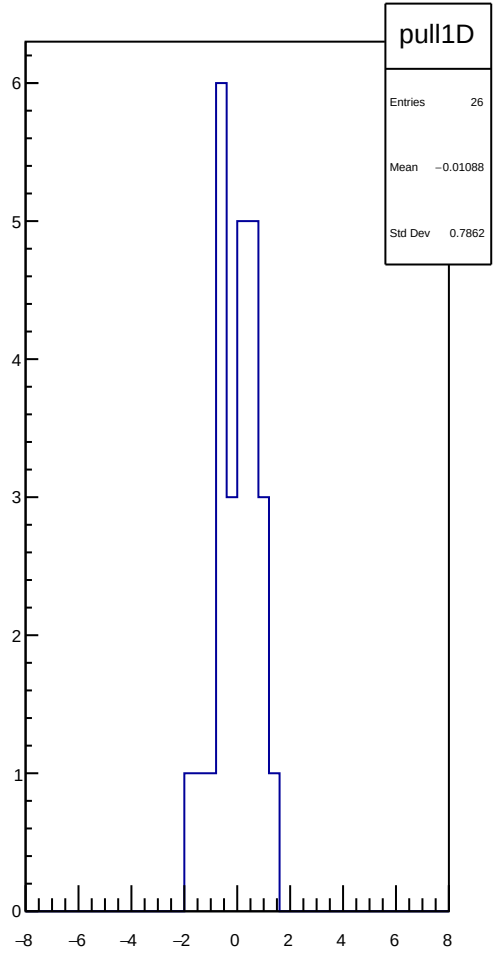

reg_asym_right_avg_rms vs run
χ² / ndf 26.33 / 25
p0 596.8 ± 0.8425
610
605
600
595
590
585
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

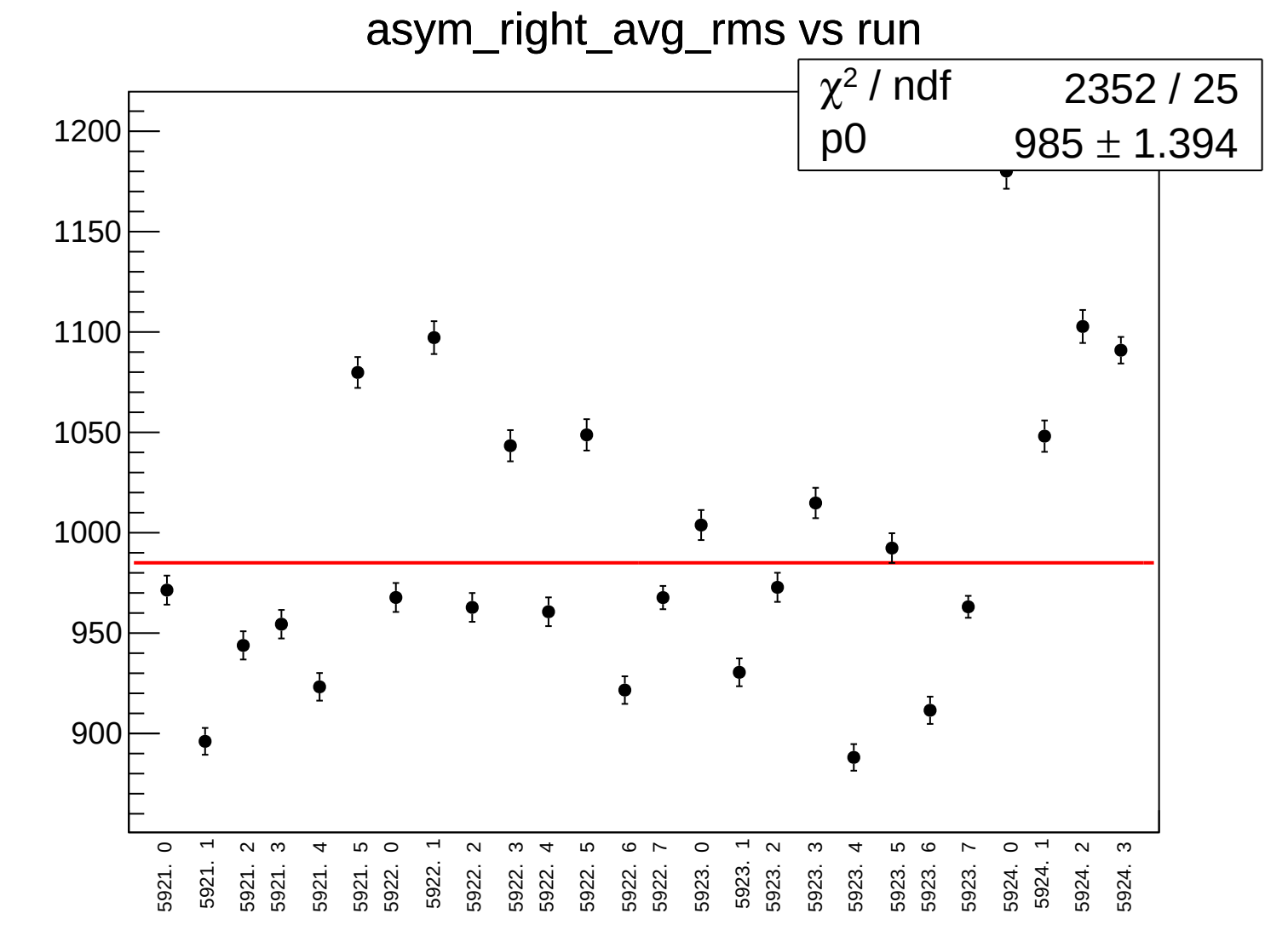

asym_right_avg_correction_mean vs run
χ² / ndf 16.7 / 25
p0 1229 ± 1558
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −113.1
Std Dev 129.8
2
1.5
1
0.5
0
−0.5
−1

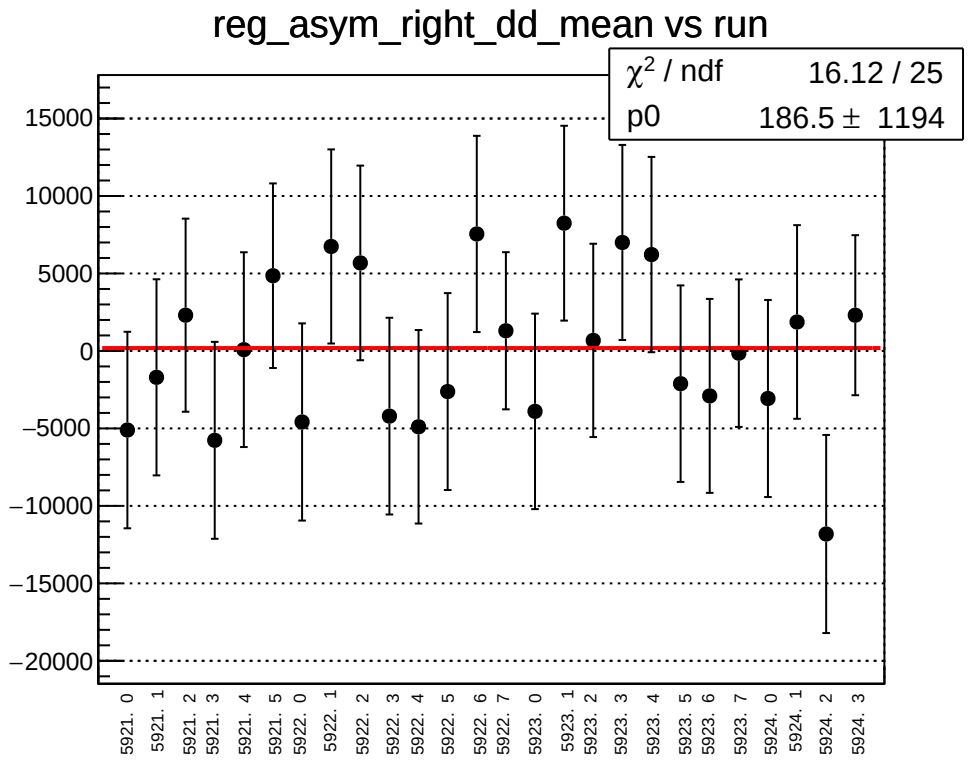

pull1D
Entries 26
Mean 0.008856
Std Dev 0.8013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

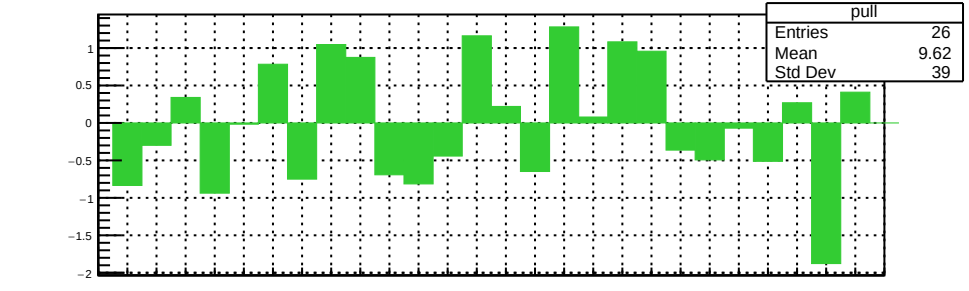

asym_right_avg_correction_rms vs run
χ² / ndf 5470 / 25
p0 776.2 ± 1.102
1050
1000
950
900
850
800
750
700
650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

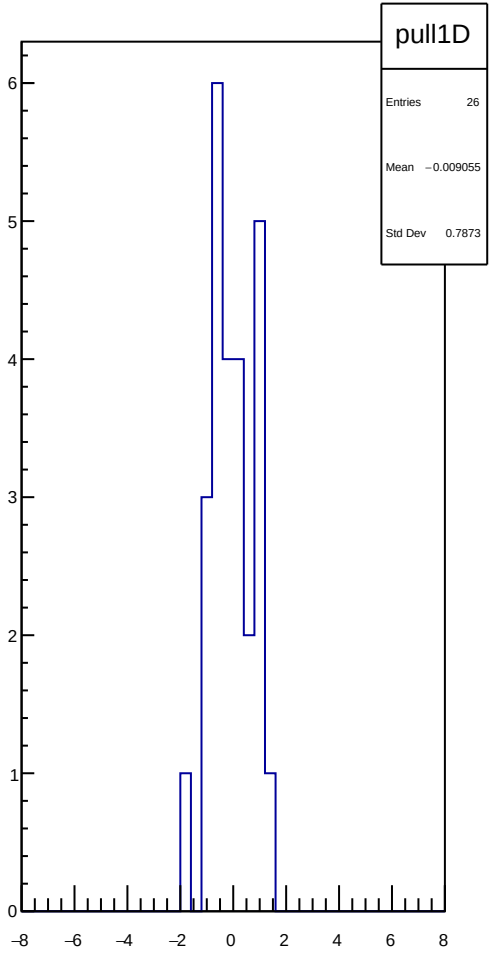

asym_right_avg_mean vs run
χ² / ndf 16.07 / 25
p0 −1484 ± 1971
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −79.29
Std Dev 92.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2

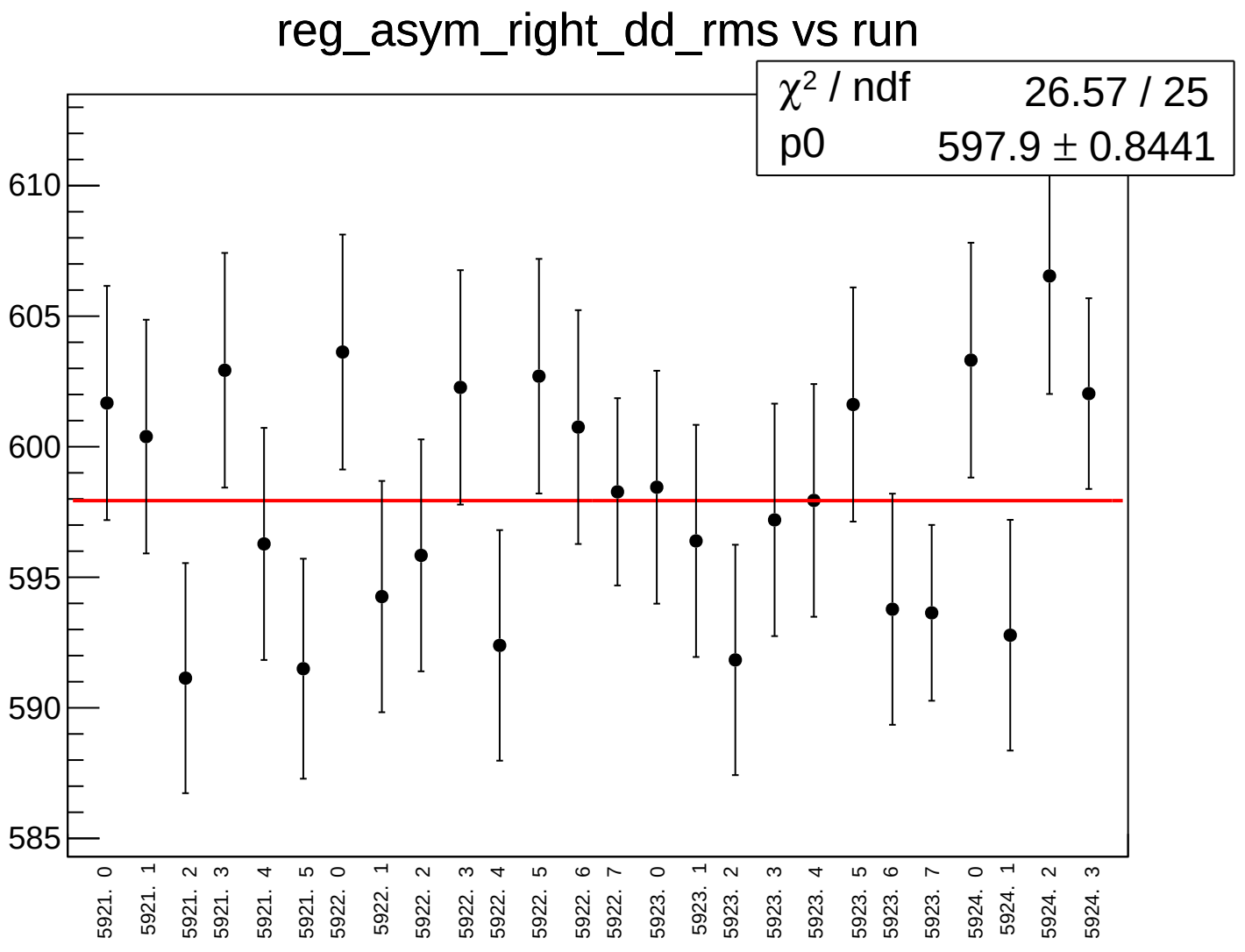

pull1D
Entries 26
Mean −0.01088
Std Dev 0.7862
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

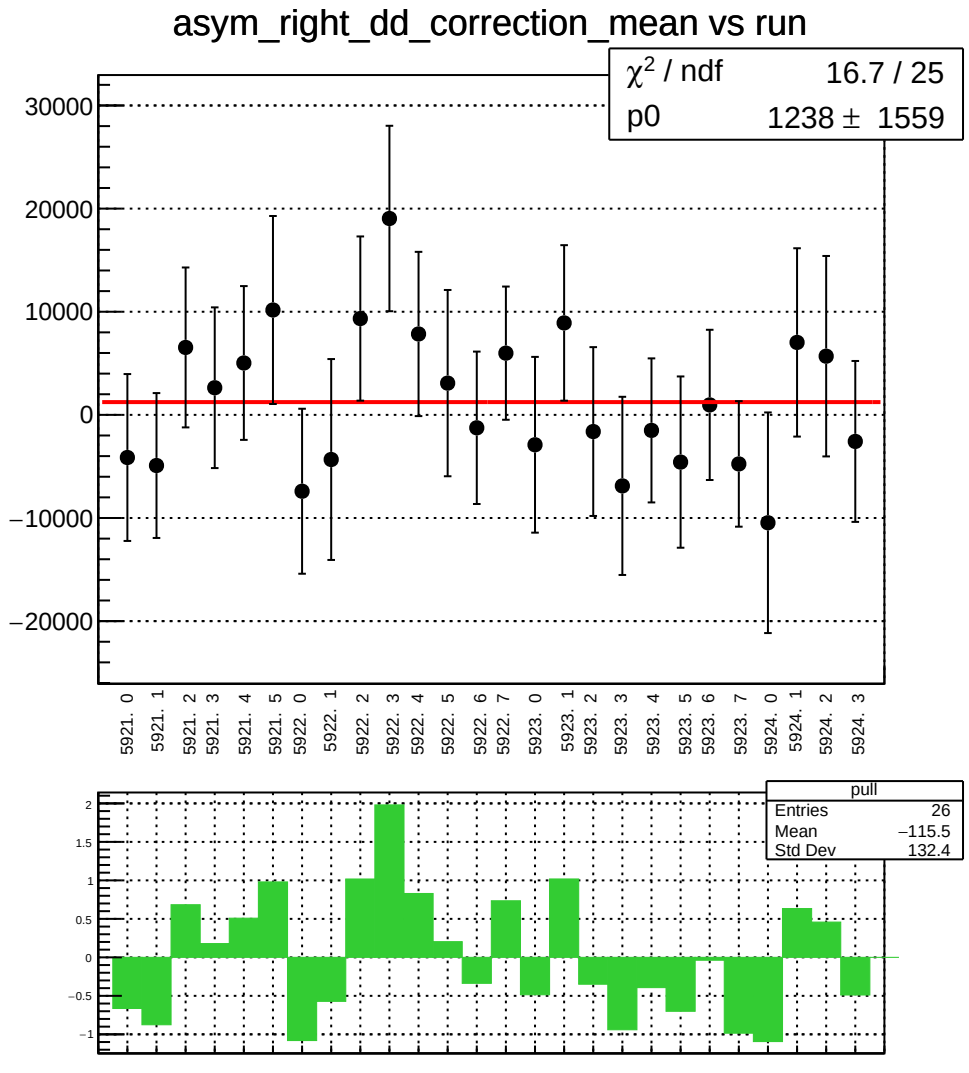

asym_right_avg_rms vs run
χ² / ndf 2352 / 25
p0 985 ± 1.394
1200
1150
1100
1050
1000
950
900
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

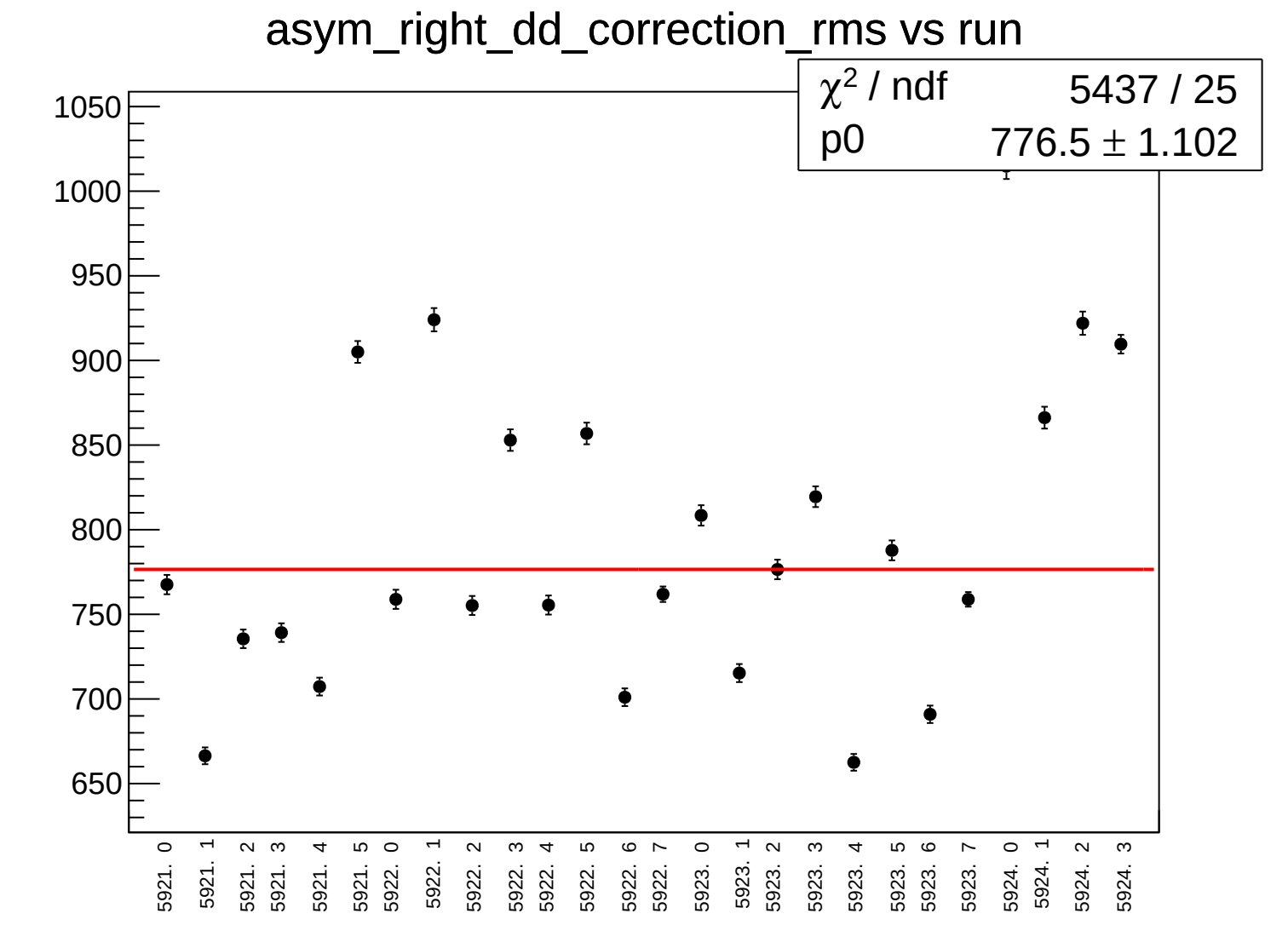

reg_asym_right_dd_mean vs run
χ² / ndf 16.12 / 25
p0 186.5 ± 1194
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

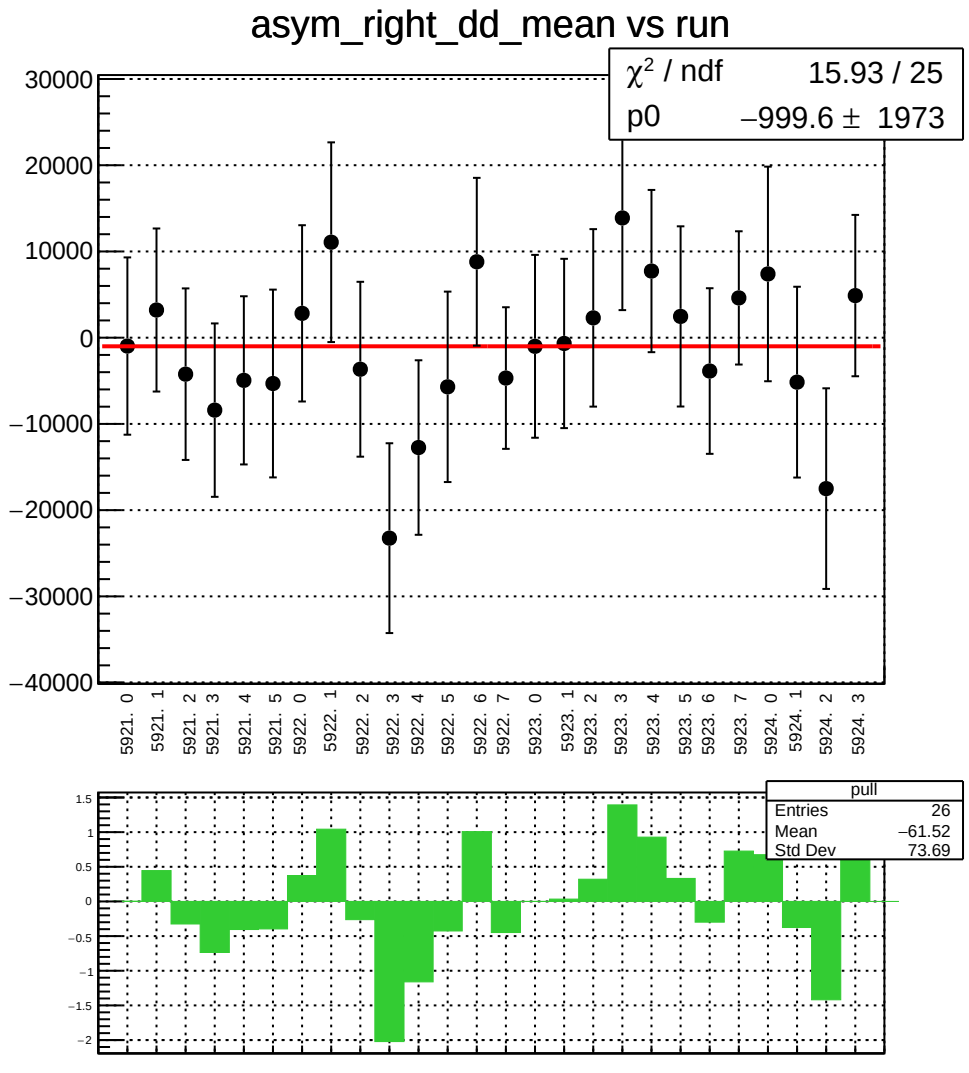

pull
Entries 26
Mean 9.62
Std Dev 39
1
0.5
0
−0.5
−1
−1.5
−2

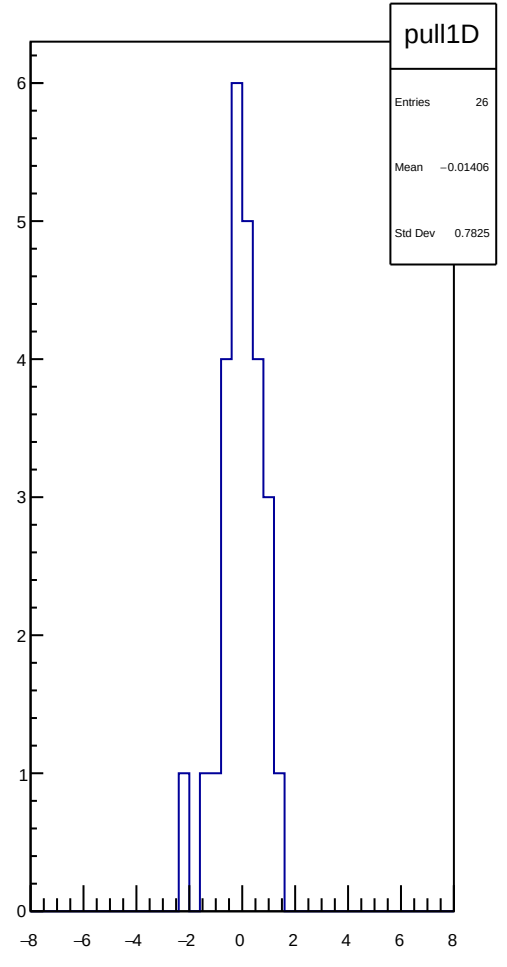

pull1D
Entries 26
Mean −0.009055
Std Dev 0.7873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

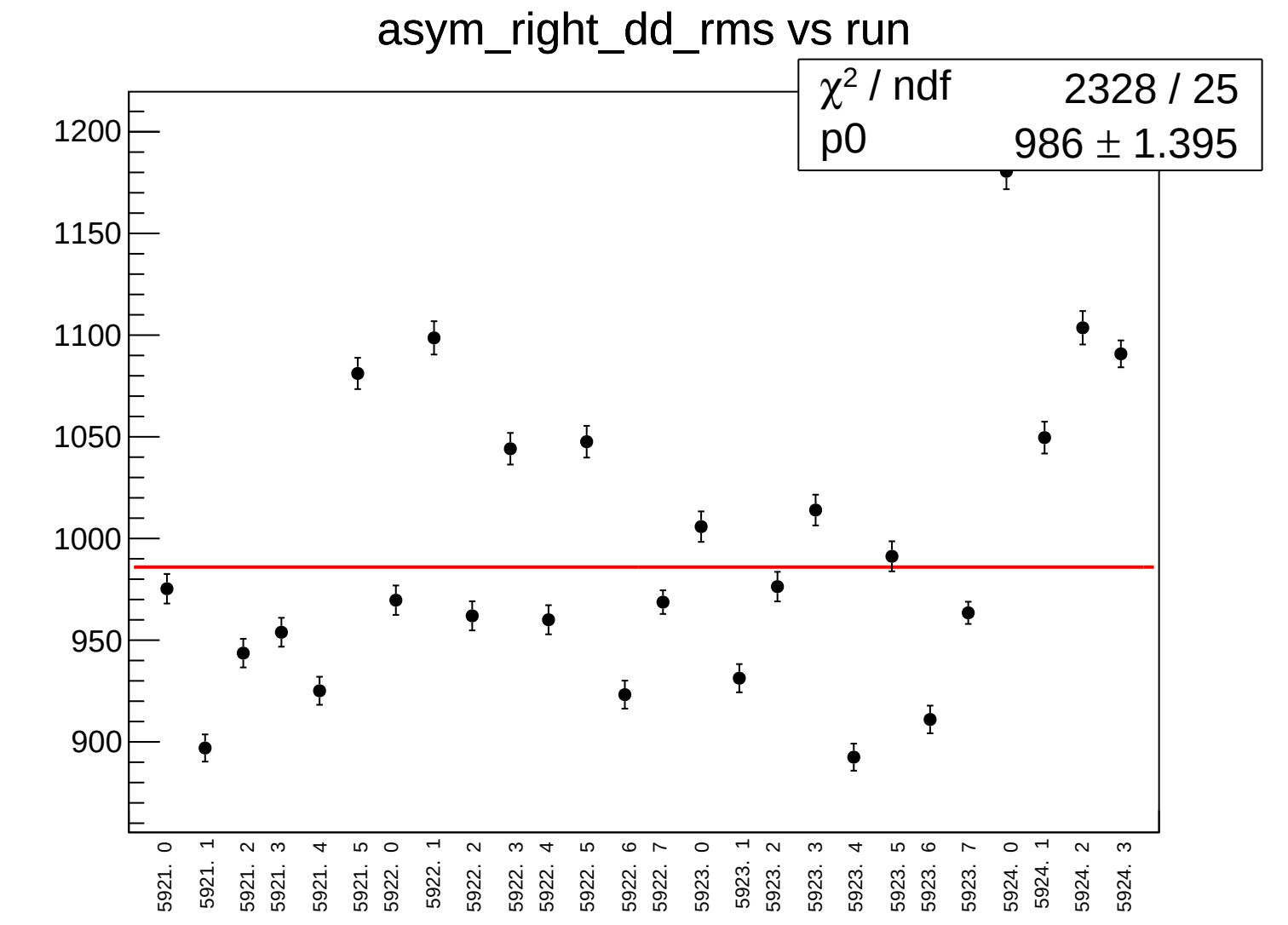

reg_asym_right_dd_rms vs run
χ² / ndf 26.57 / 25
p0 597.9 ± 0.8441
610
605
600
595
590
585
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

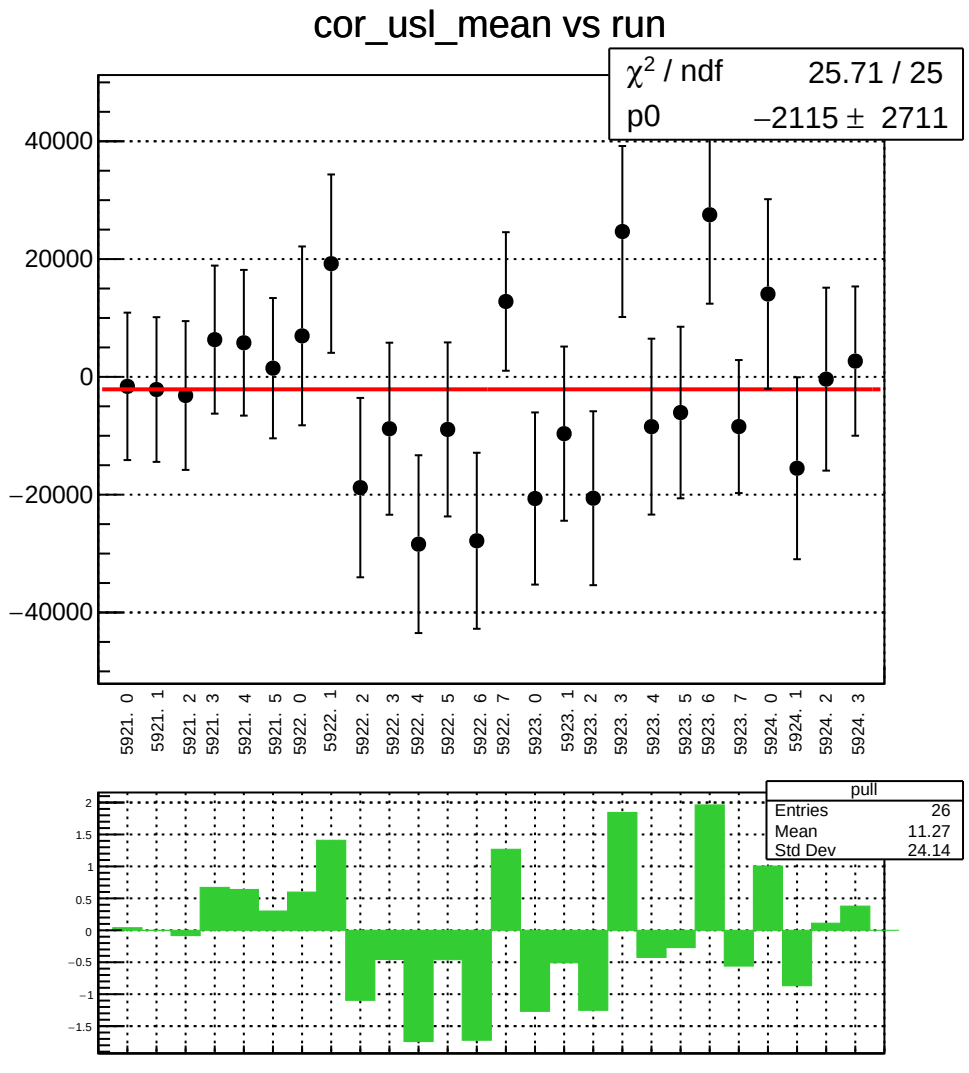

asym_right_dd_correction_mean vs run
χ² / ndf 16.7 / 25
p0 1238 ± 1559
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −115.5
Std Dev 132.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.008664
Std Dev 0.8015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

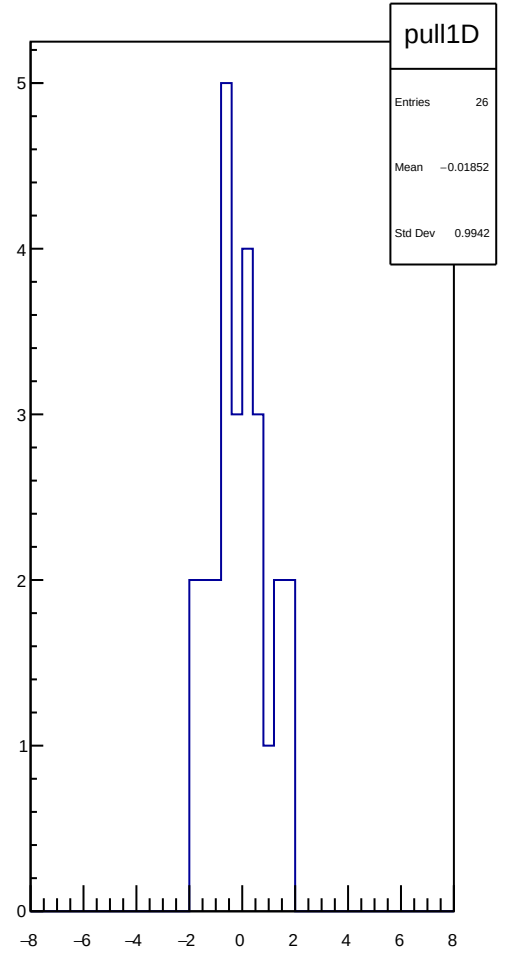

asym_right_dd_correction_rms vs run
χ² / ndf 5437 / 25
p0 776.5 ± 1.102
1050
1000
950
900
850
800
750
700
650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

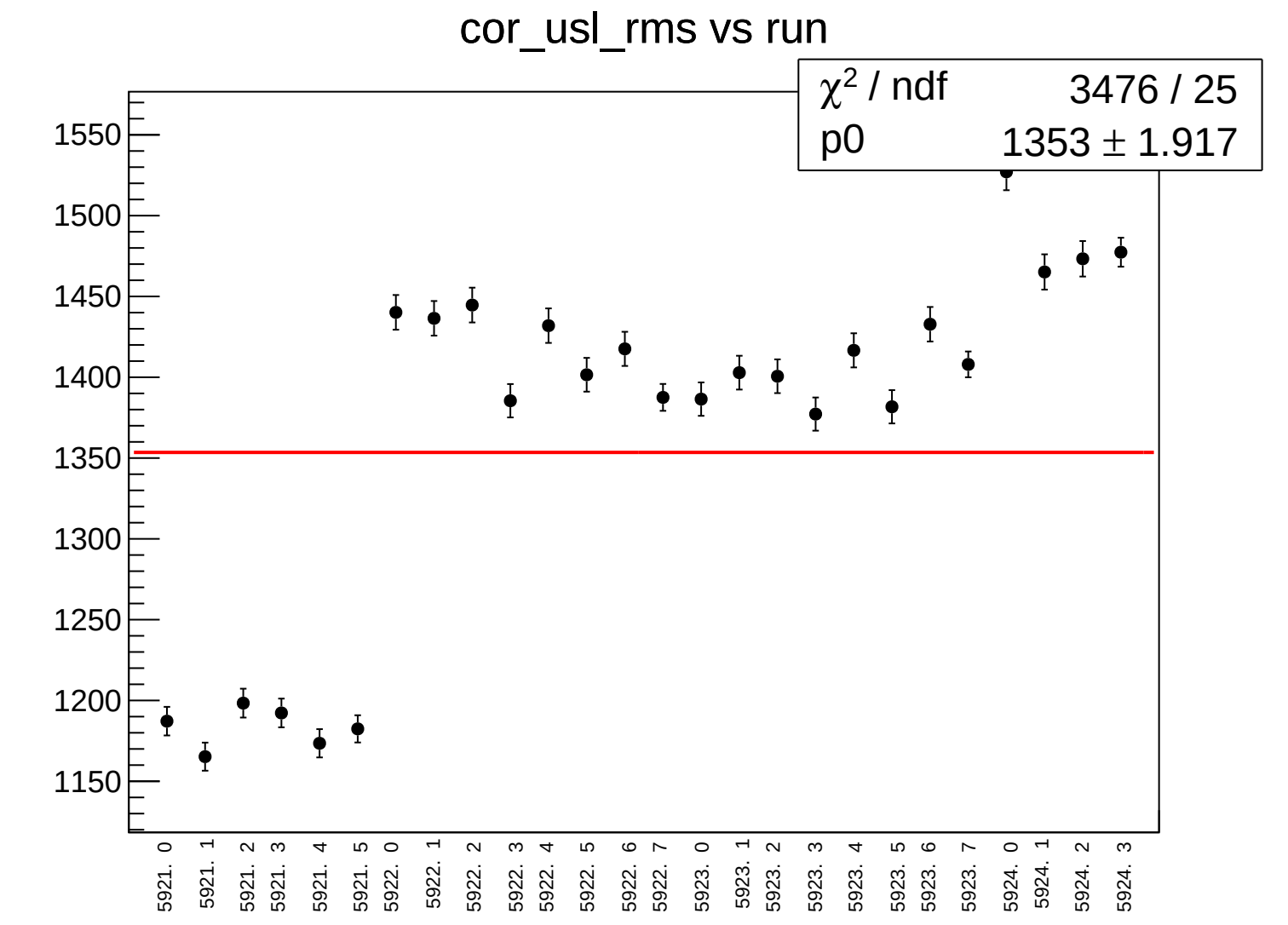

asym_right_dd_mean vs run
χ² / ndf 15.93 / 25
p0 −999.6 ± 1973
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −61.52
Std Dev 73.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2

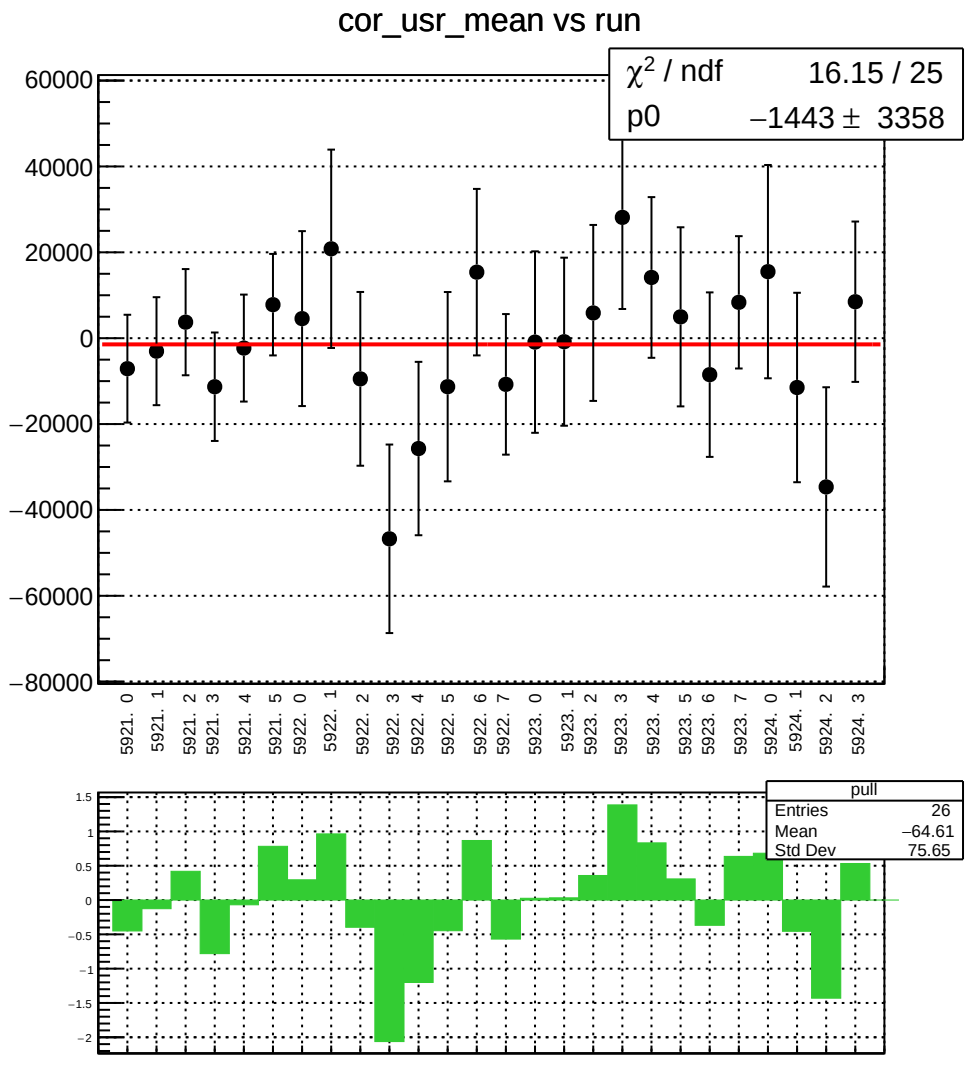

pull1D
Entries 26
Mean −0.01406
Std Dev 0.7825
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

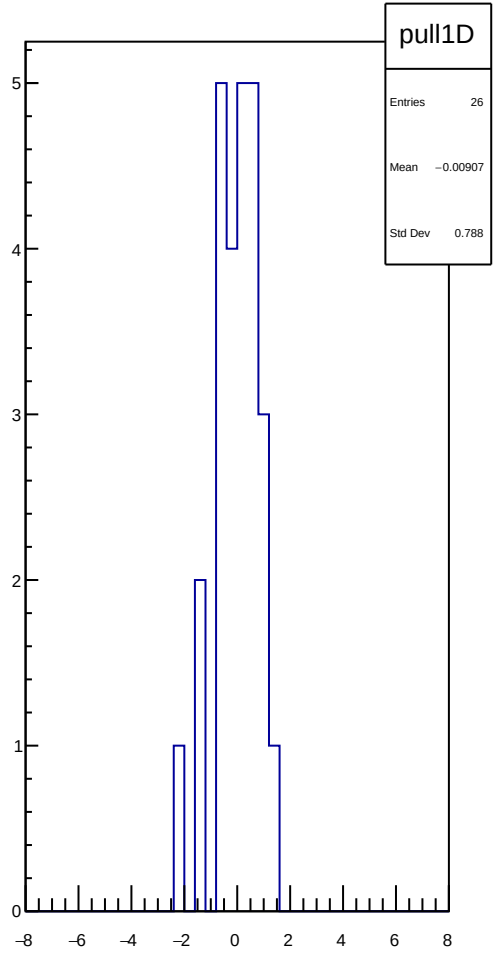

asym_right_dd_rms vs run
χ² / ndf 2328 / 25
p0 986 ± 1.395
1200
1150
1100
1050
1000
950
900
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

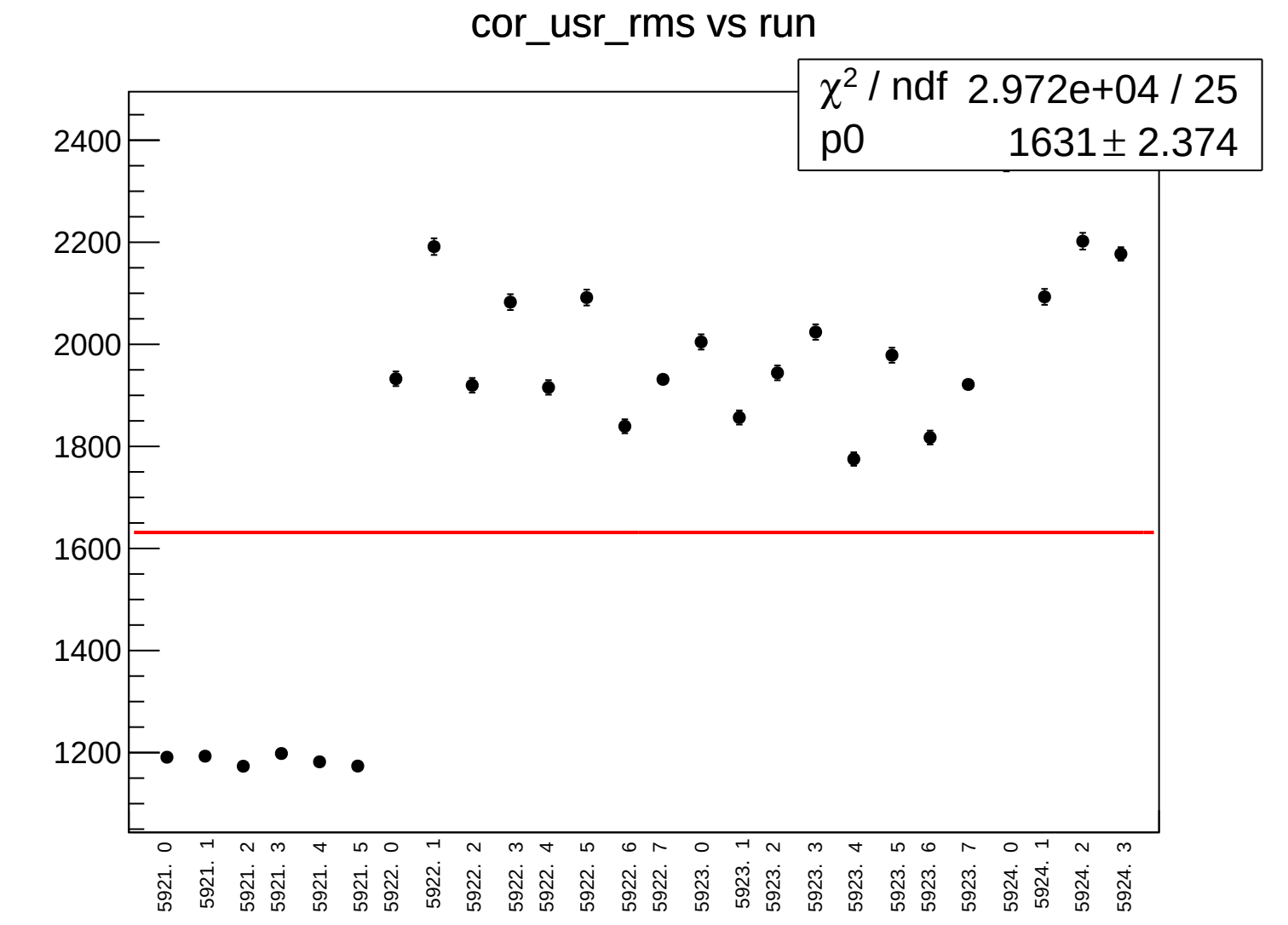

cor_usl_mean vs run
χ² / ndf 25.71 / 25
p0 −2115 ± 2711
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 11.27
Std Dev 24.14
2
1.5
1
0.5
0
−0.5
−1
−1.5

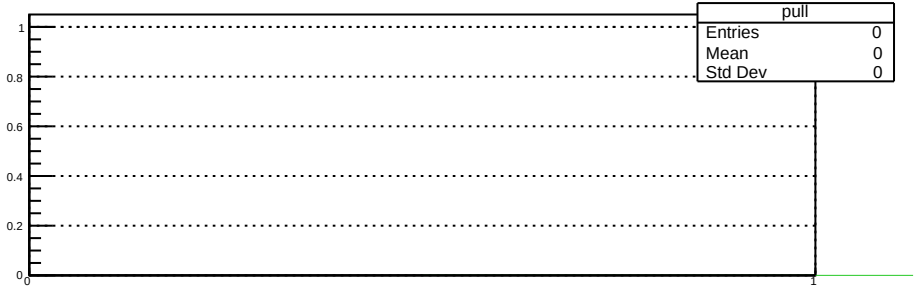

pull1D
Entries 26
Mean −0.01852
Std Dev 0.9942
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

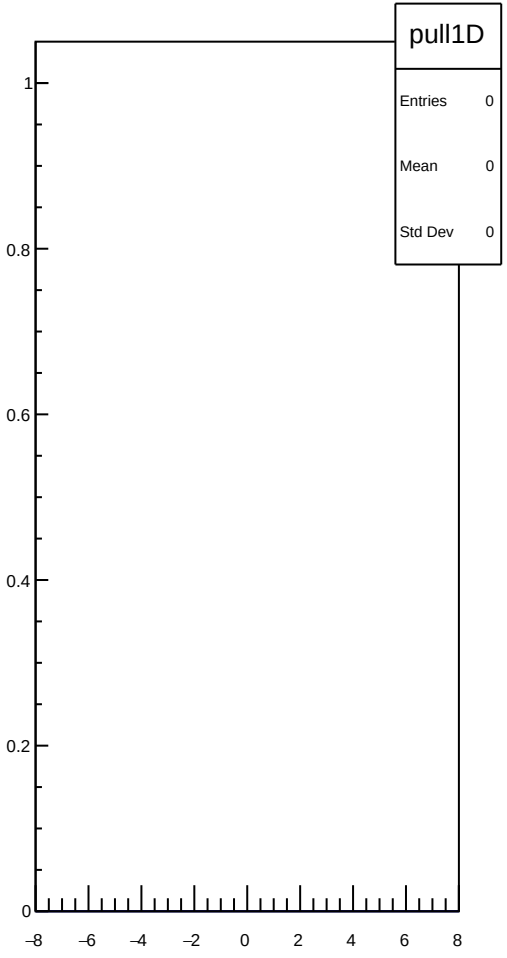

cor_usl_rms vs run
χ² / ndf 3476 / 25
p0 1353 ± 1.917
1550
1500
1450
1400
1350
1300
1250
1200
1150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

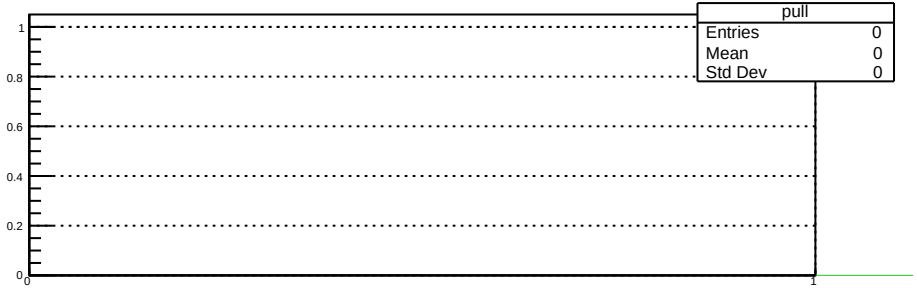

cor_usr_mean vs run
χ² / ndf 16.15 / 25
p0 −1443 ± 3358
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −64.61
Std Dev 75.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2

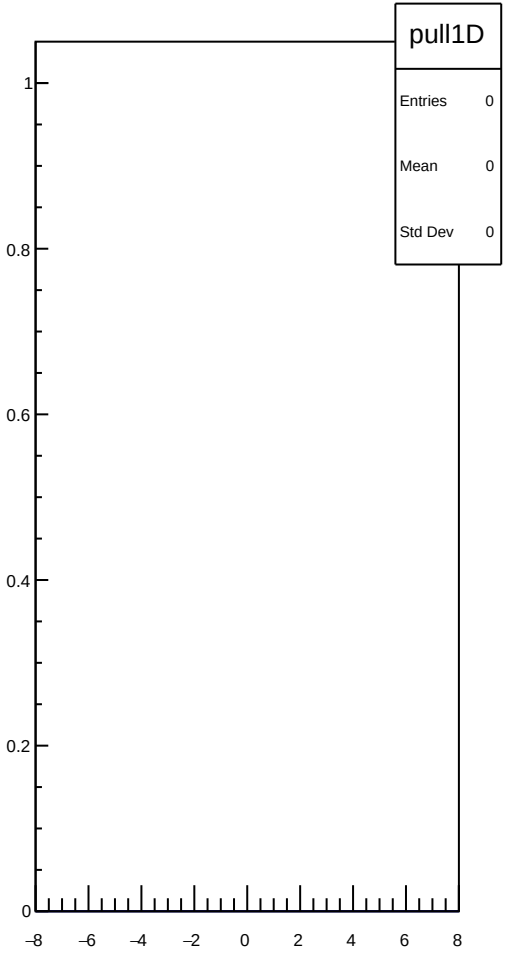

pull1D
Entries 26
Mean −0.00907
Std Dev 0.788
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

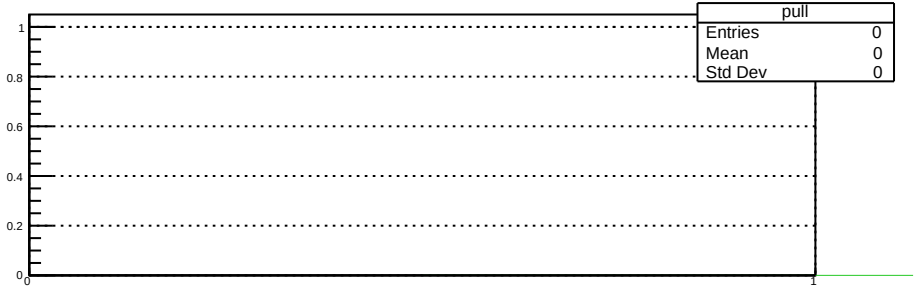

cor_usr_rms vs run
χ² / ndf 2.972e+04 / 25
p0 1631 ± 2.374
2400
2200
2000
1800
1600
1400
1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

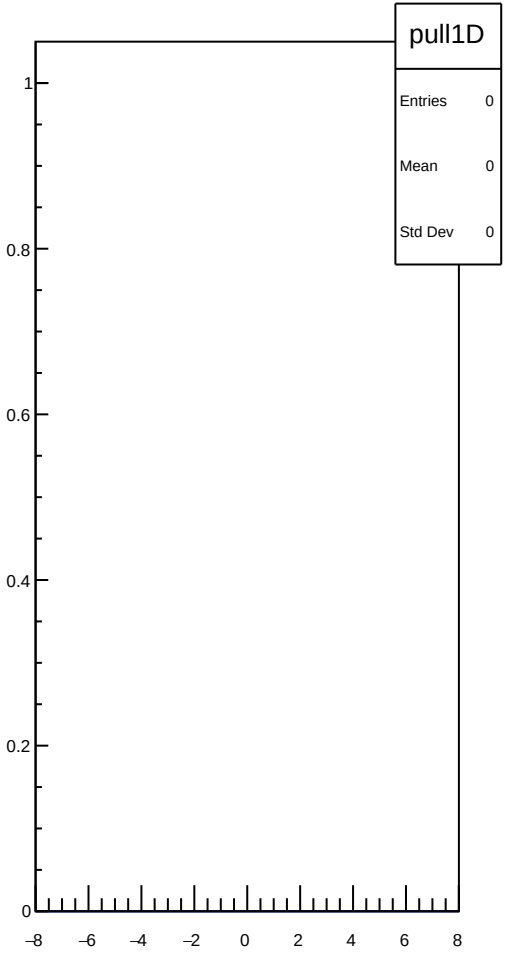

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

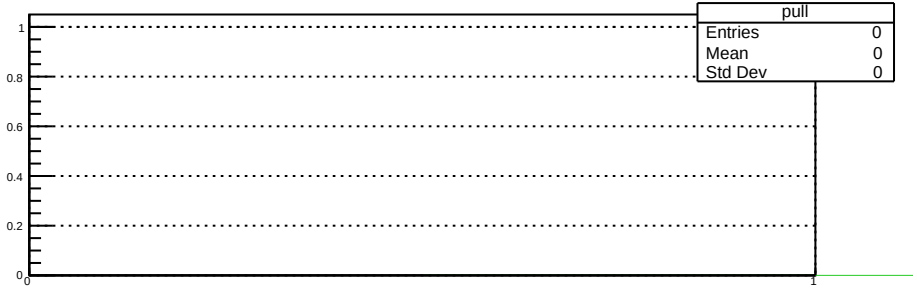

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

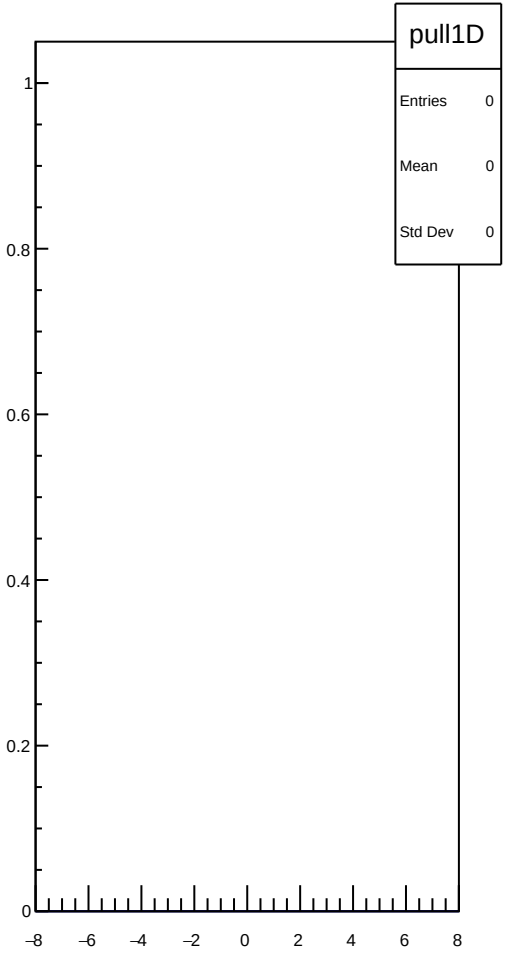

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

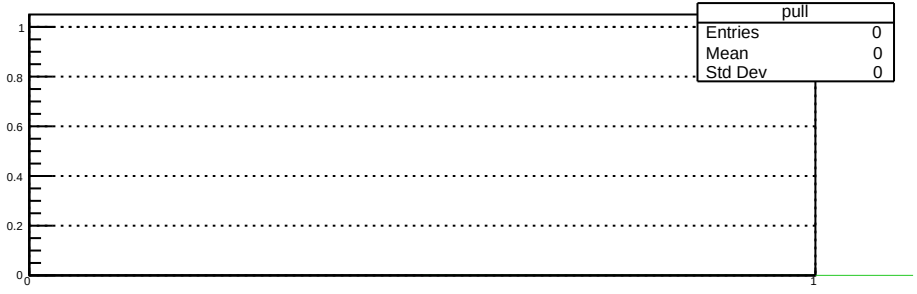

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

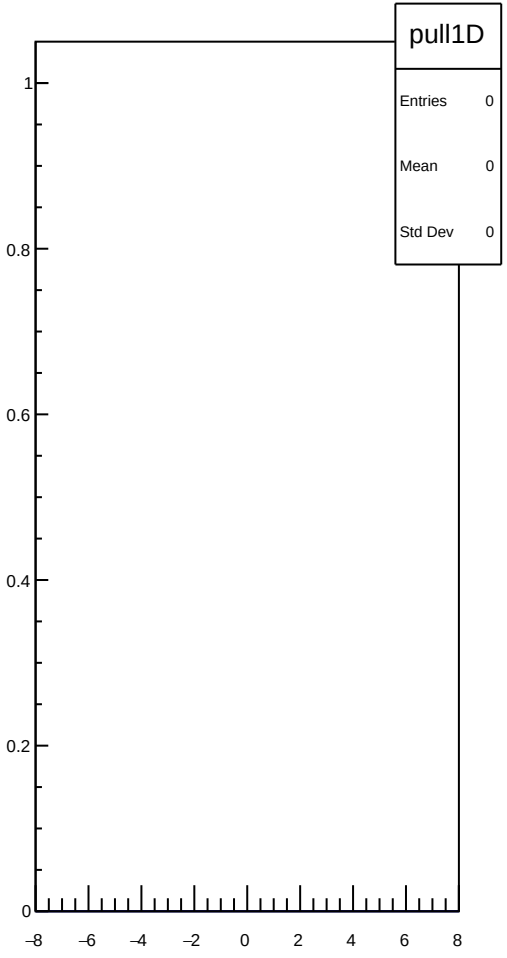

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

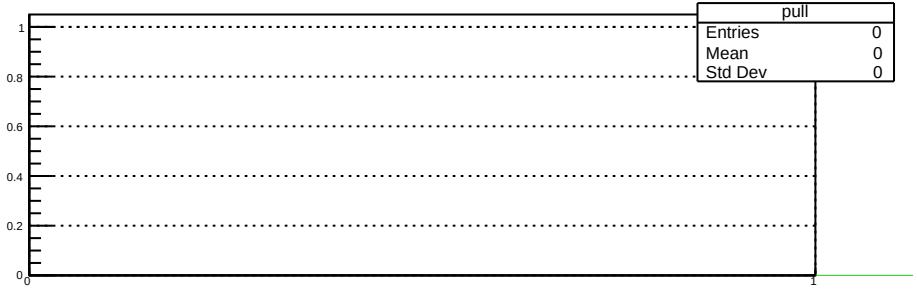

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

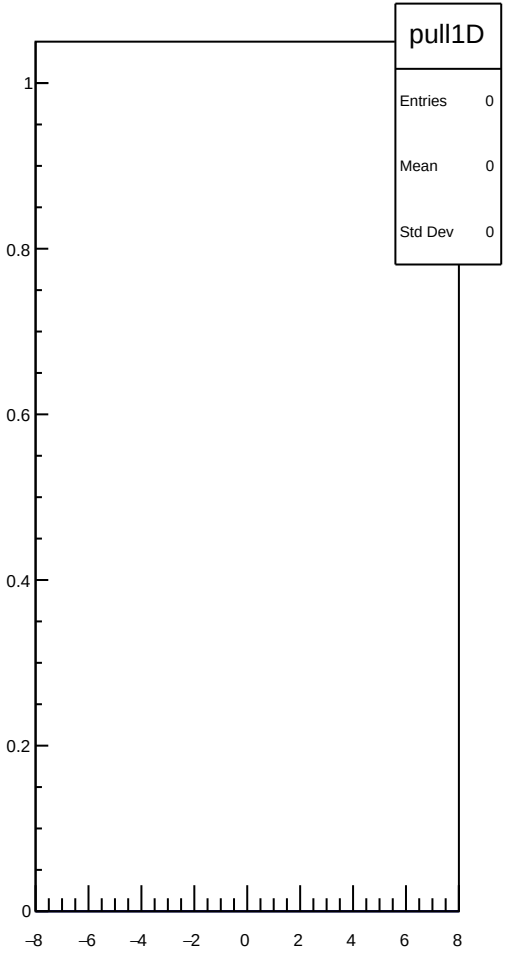

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

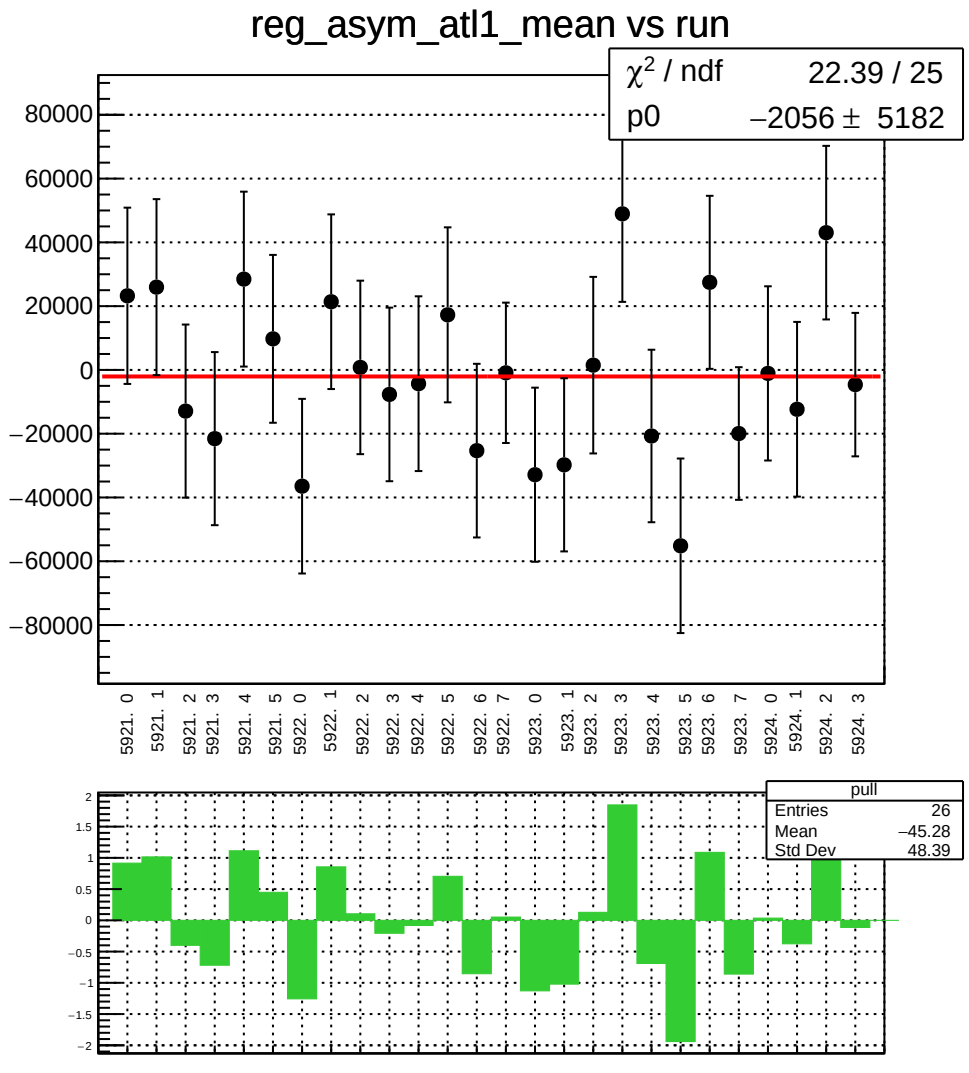

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

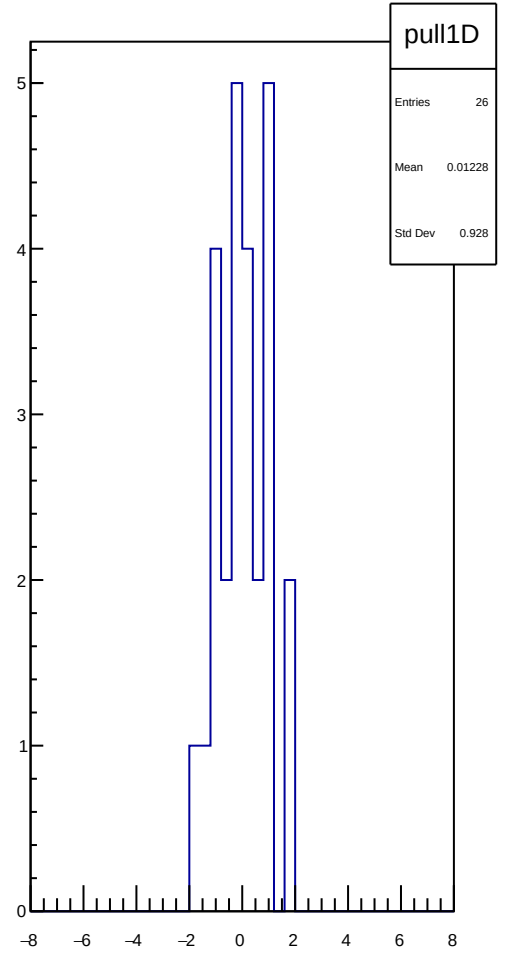

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

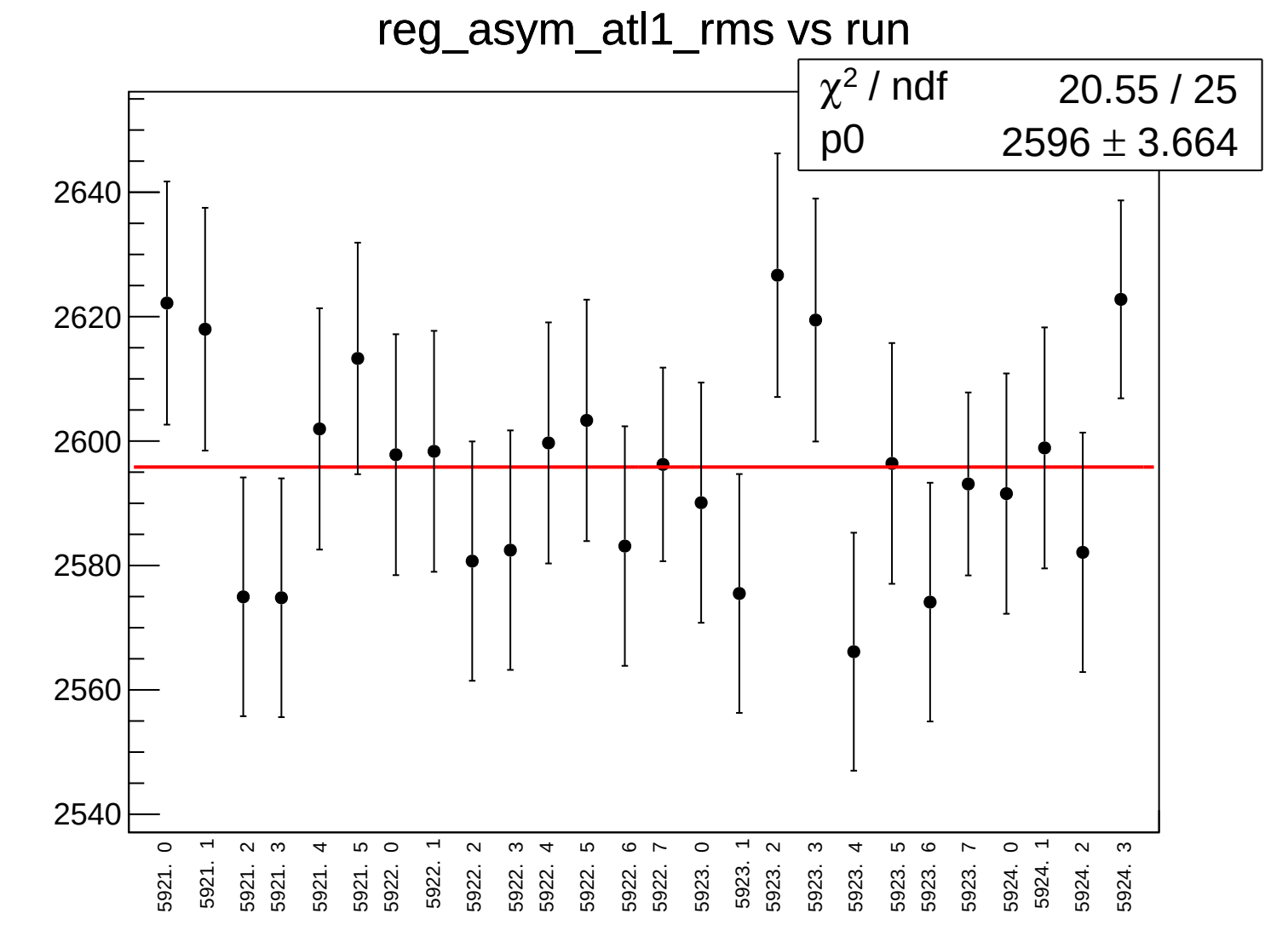

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

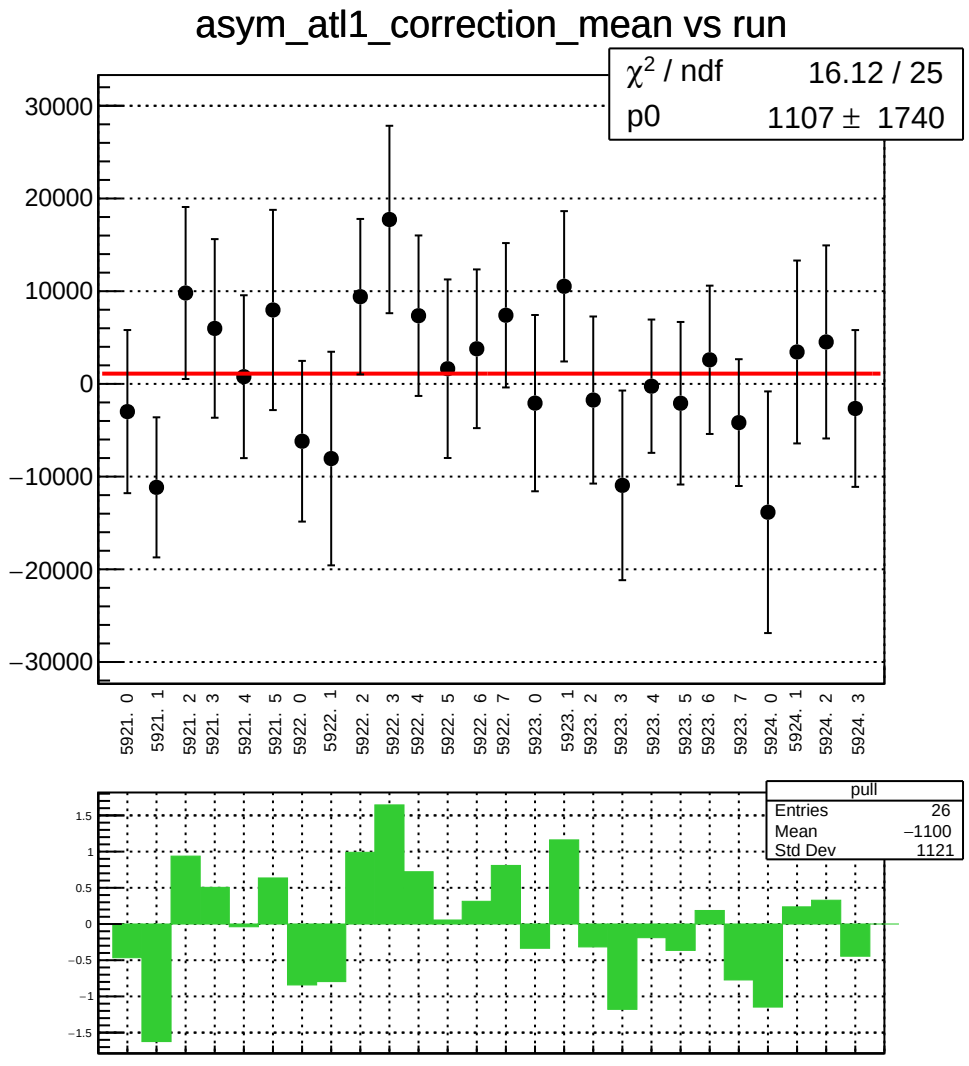

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

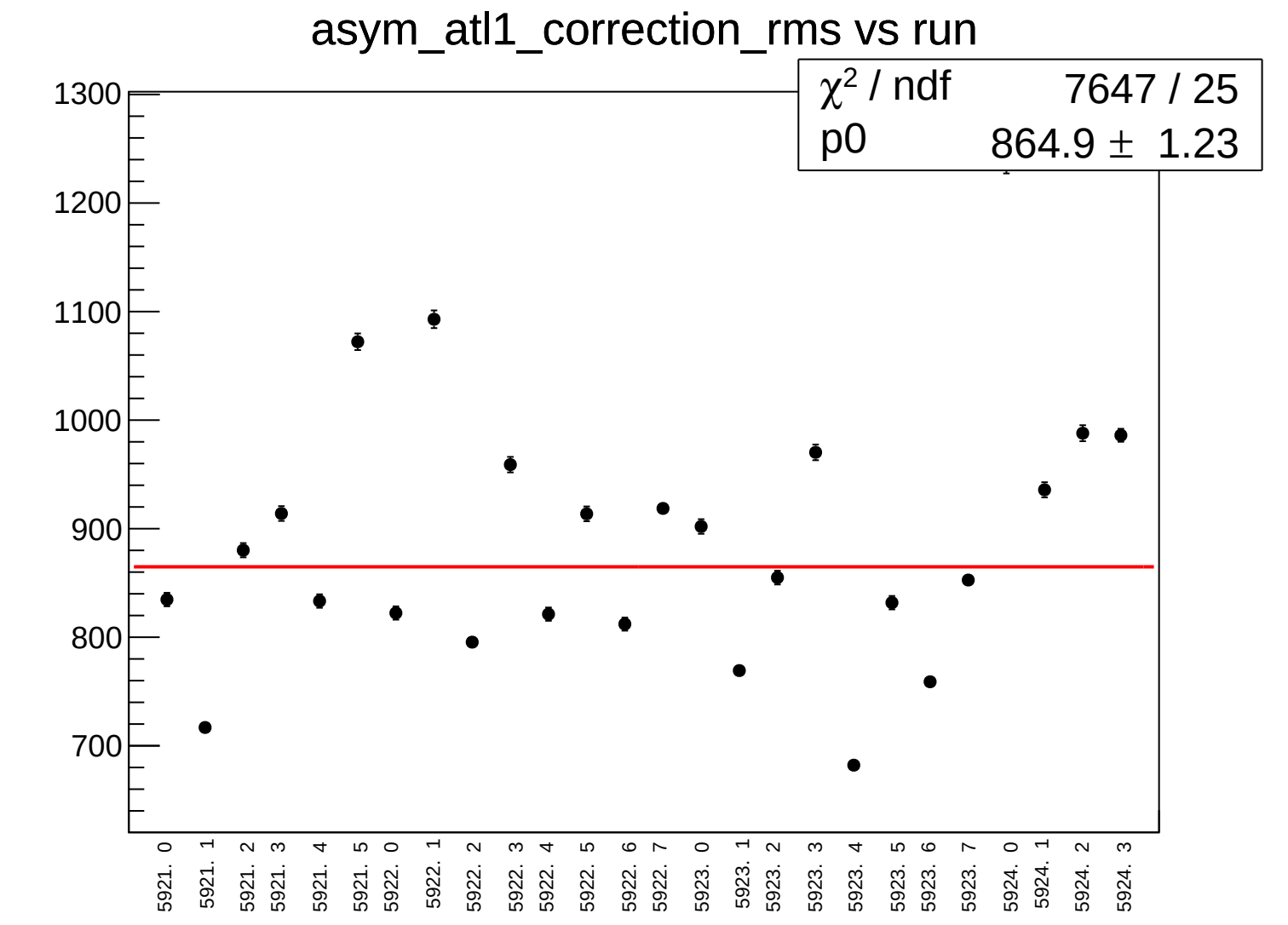

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

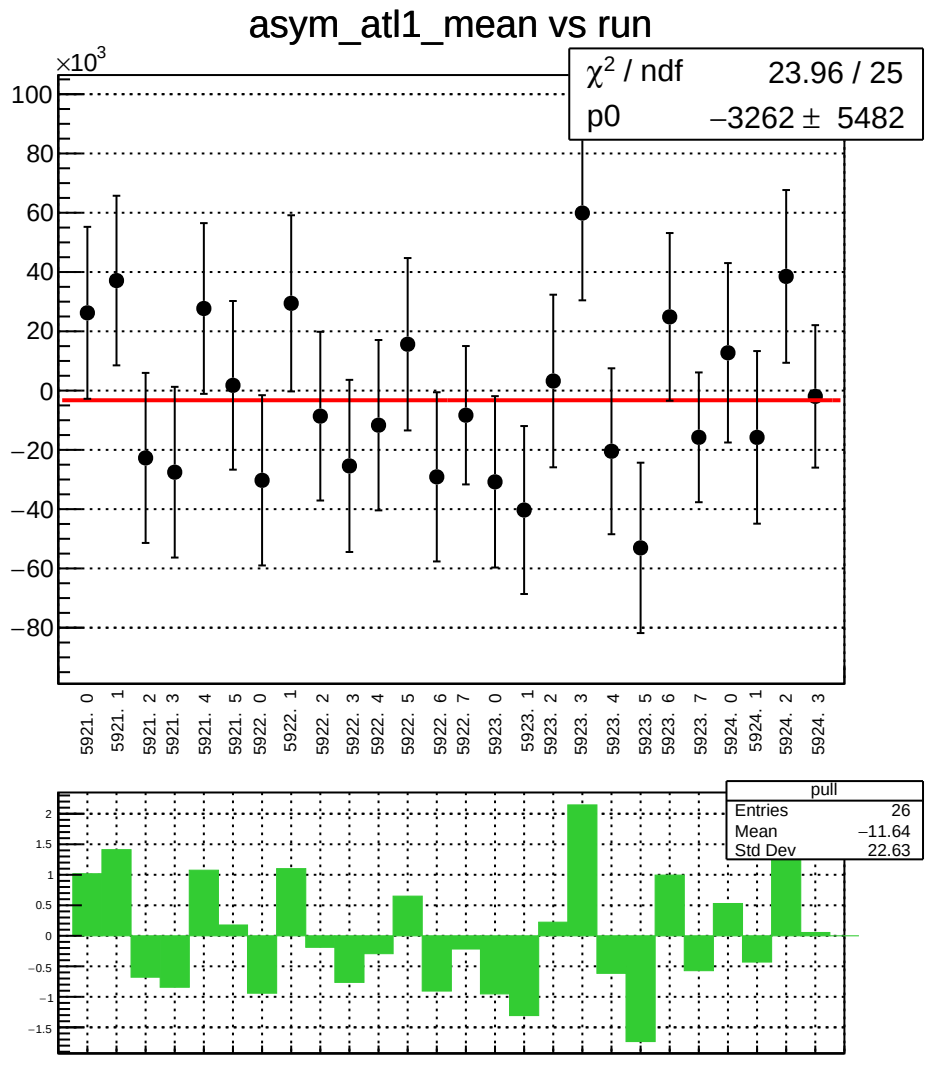

reg_asym_atl1_mean vs run
χ² / ndf 22.39 / 25
p0 −2056 ± 5182
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −45.28
Std Dev 48.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

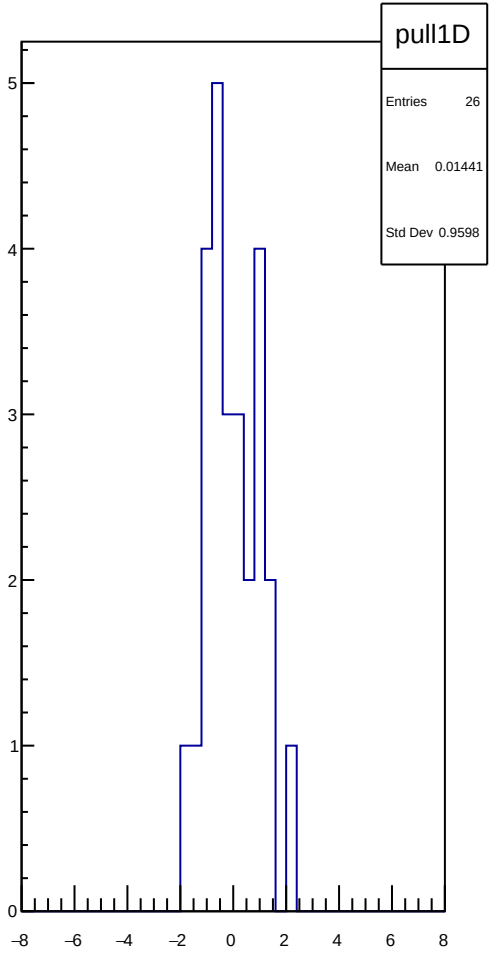

pull1D
Entries 26
Mean 0.01228
Std Dev 0.928
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

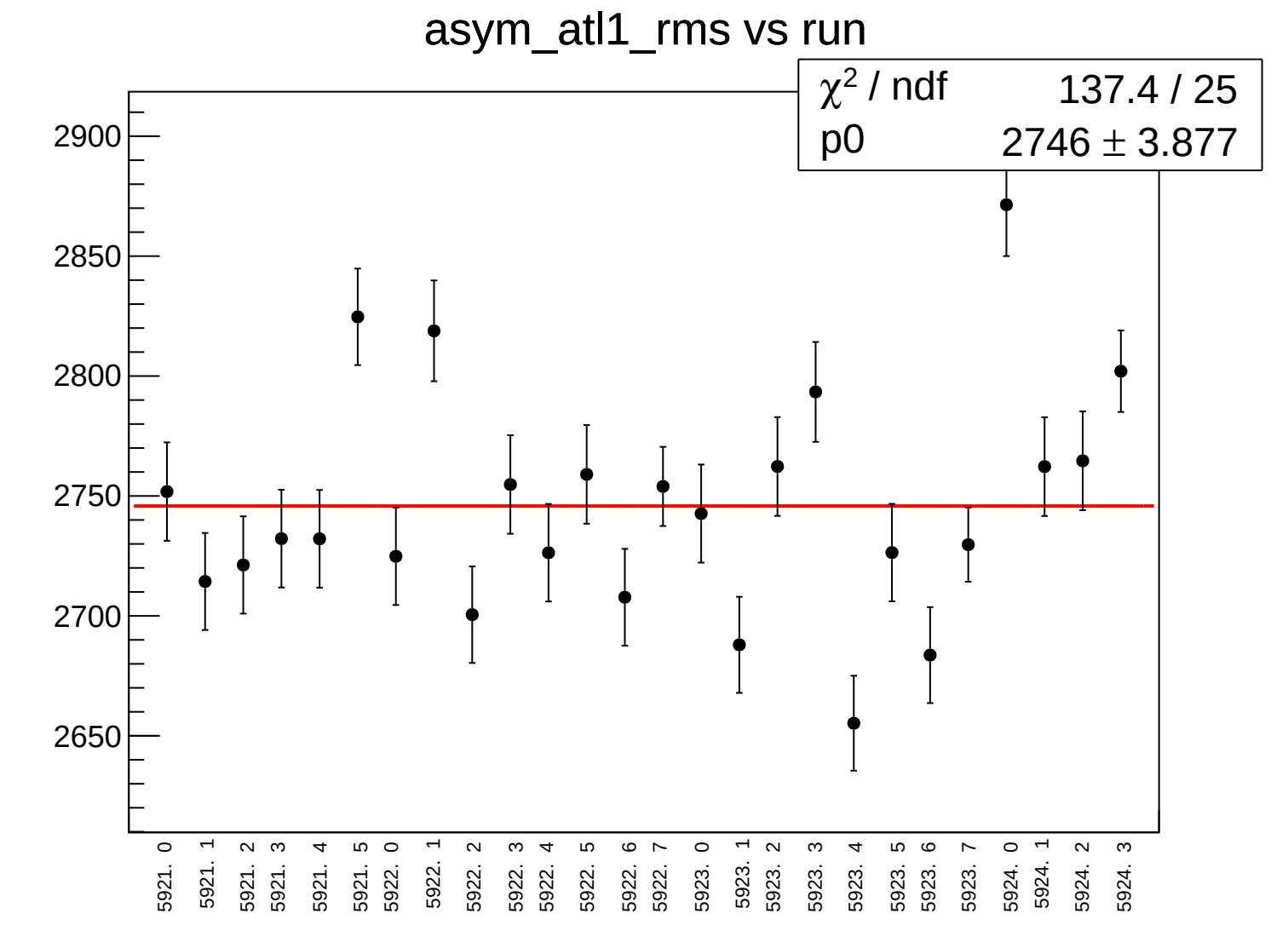

reg_asym_atl1_rms vs run
χ² / ndf 20.55 / 25
p0 2596 ± 3.664
2640
2620
2600
2580
2560
2540
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

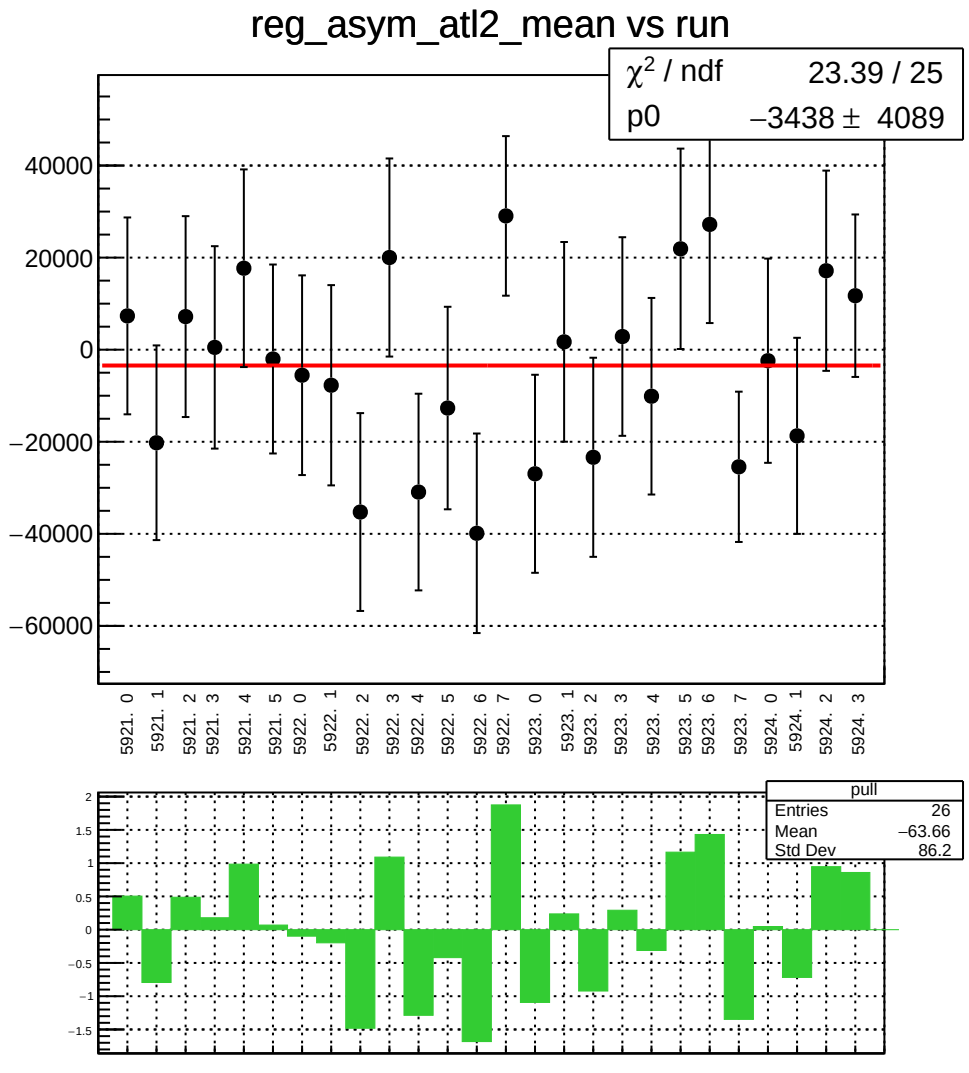

asym_atl1_correction_mean vs run
χ² / ndf 16.12 / 25
p0 1107 ± 1740
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1100
Std Dev 1121
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.0006703
Std Dev 0.7875
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

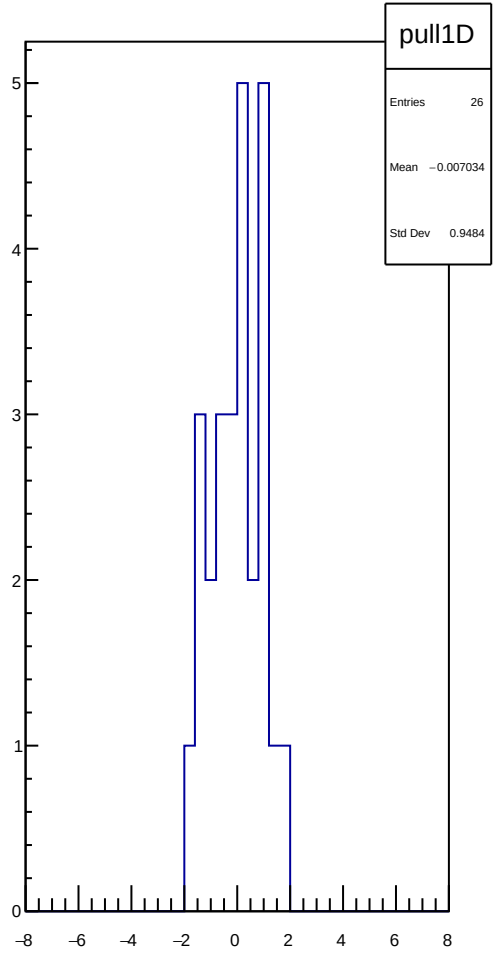

asym_atl1_correction_rms vs run
χ² / ndf 7647 / 25
p0 864.9 ± 1.23
1300
1200
1100
1000
900
800
700
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

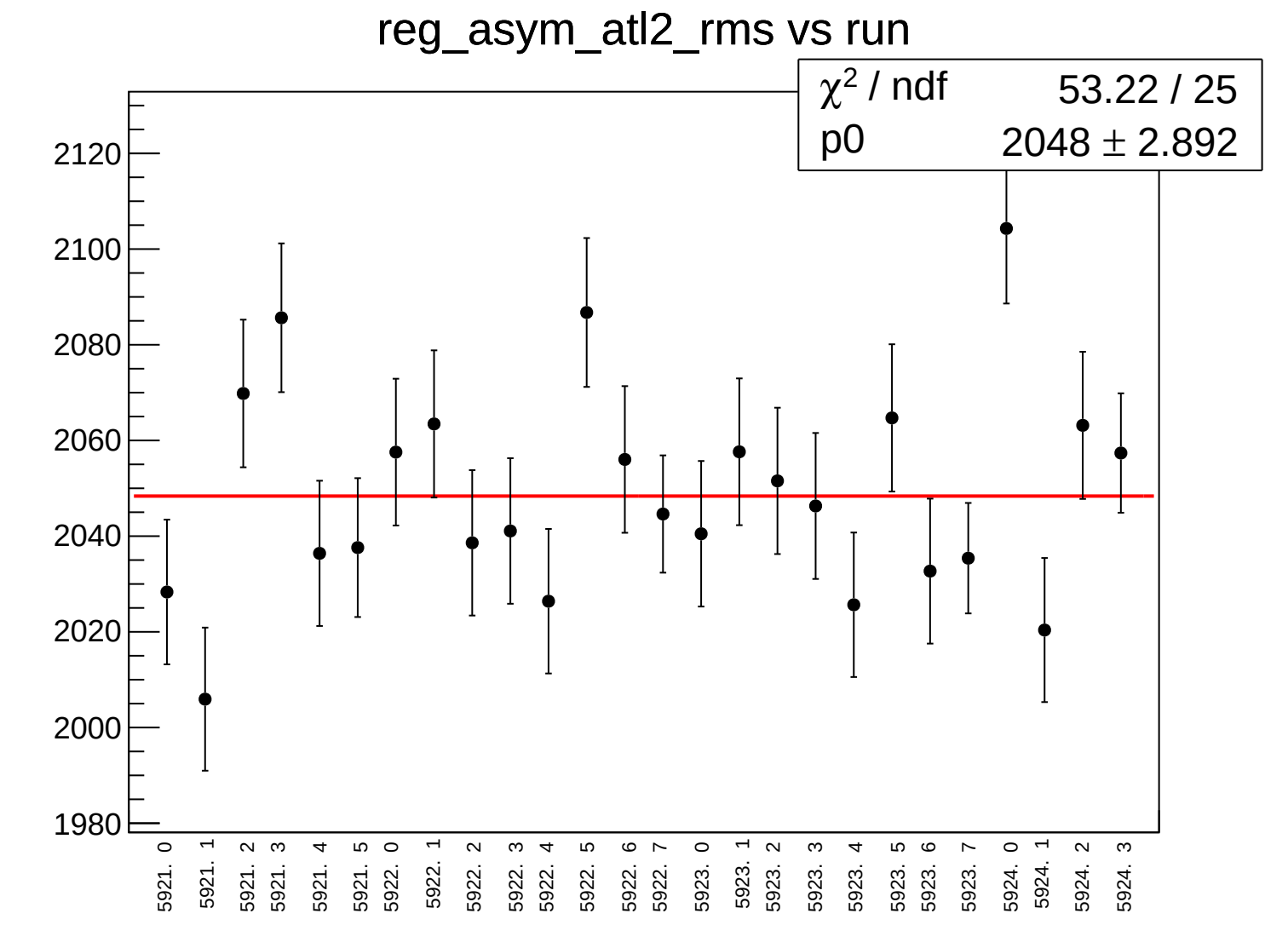

asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.96 / 25
p0 −3262 ± 5482
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −11.64
Std Dev 22.63
2
1.5
1
0.5
0
−0.5
−1
−1.5

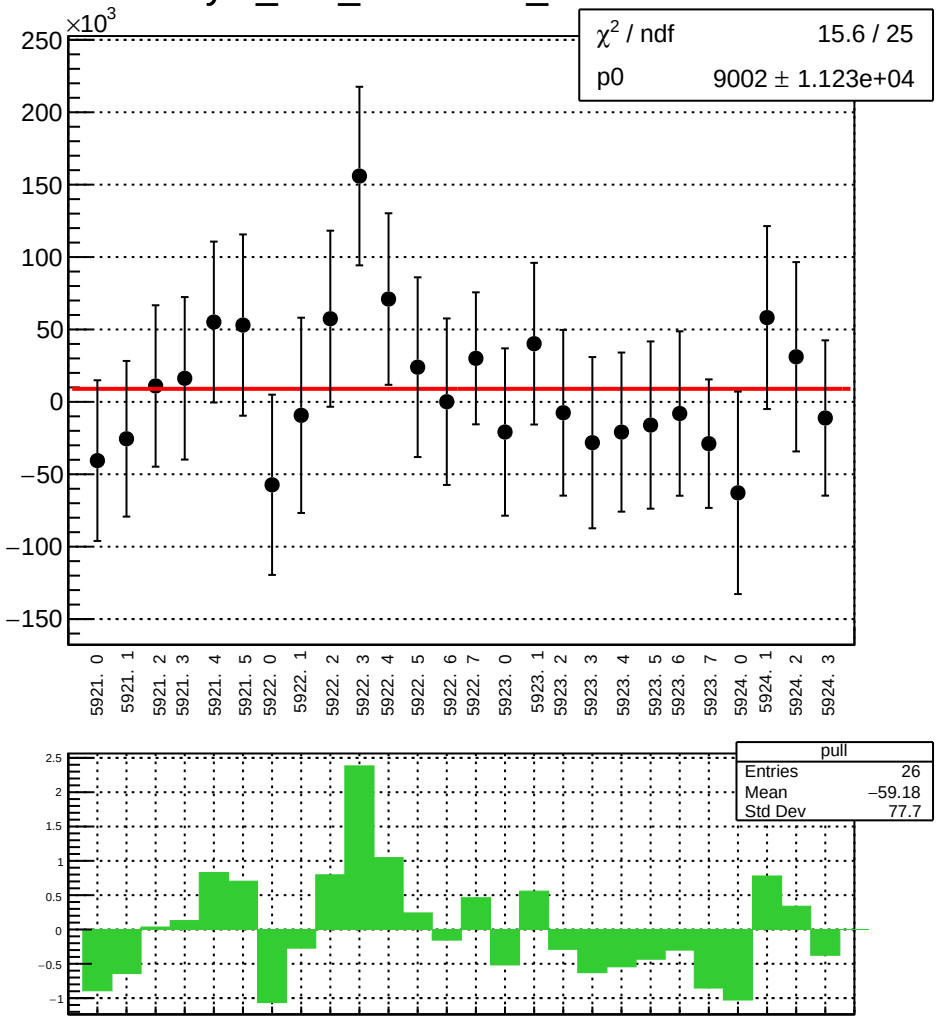

pull1D
Entries 26
Mean 0.01441
Std Dev 0.9598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

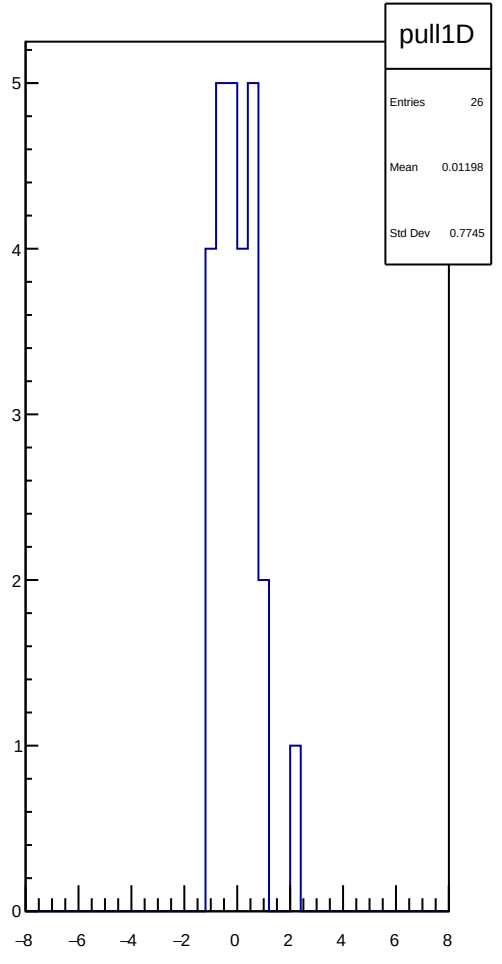

asym_atl1_rms vs run
χ² / ndf 137.4 / 25
p0 2746 ± 3.877
2900
2850
2800
2750
2700
2650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

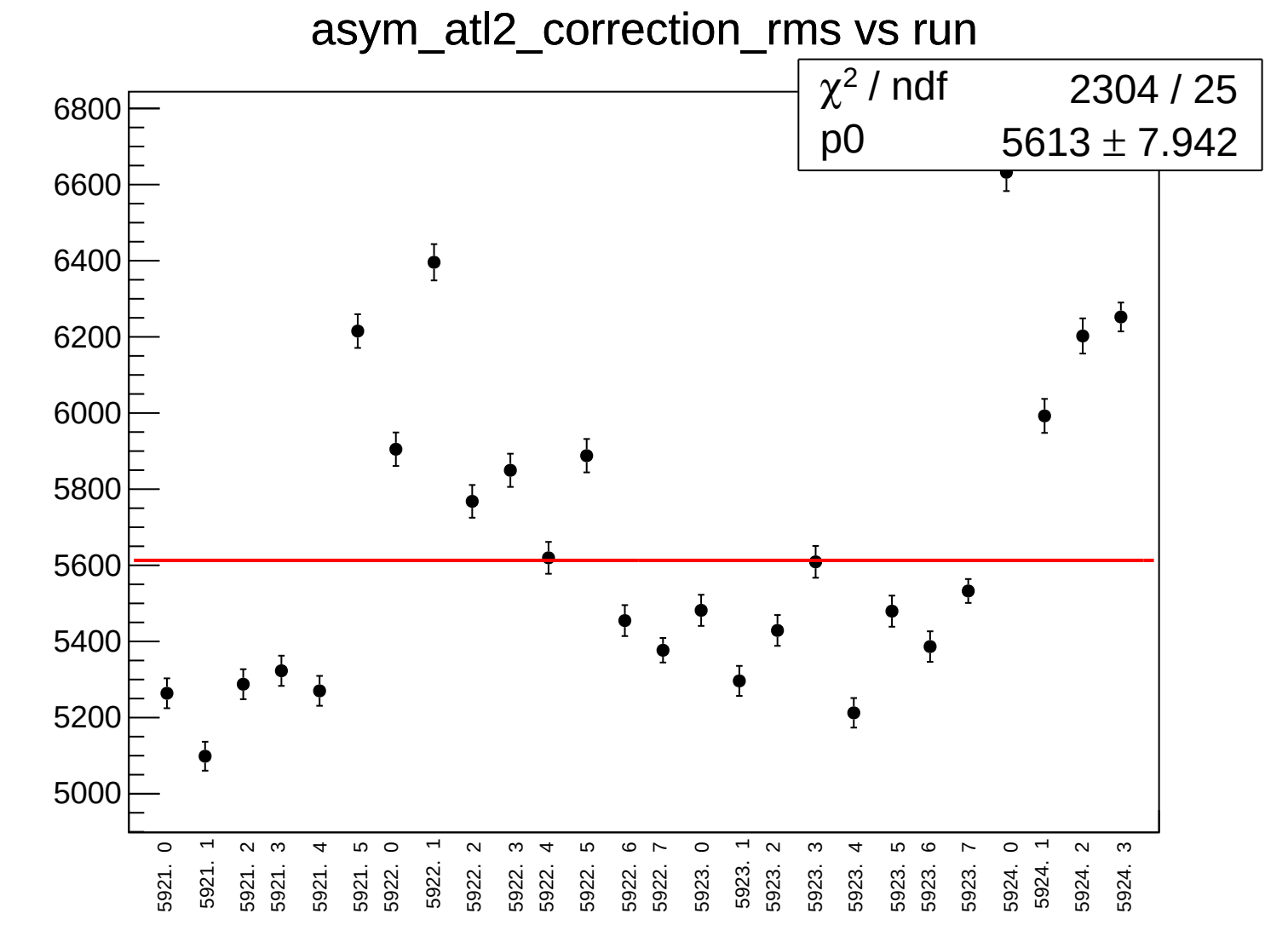

reg_asym_atl2_mean vs run
χ² / ndf 23.39 / 25
p0 −3438 ± 4089
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −63.66
Std Dev 86.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

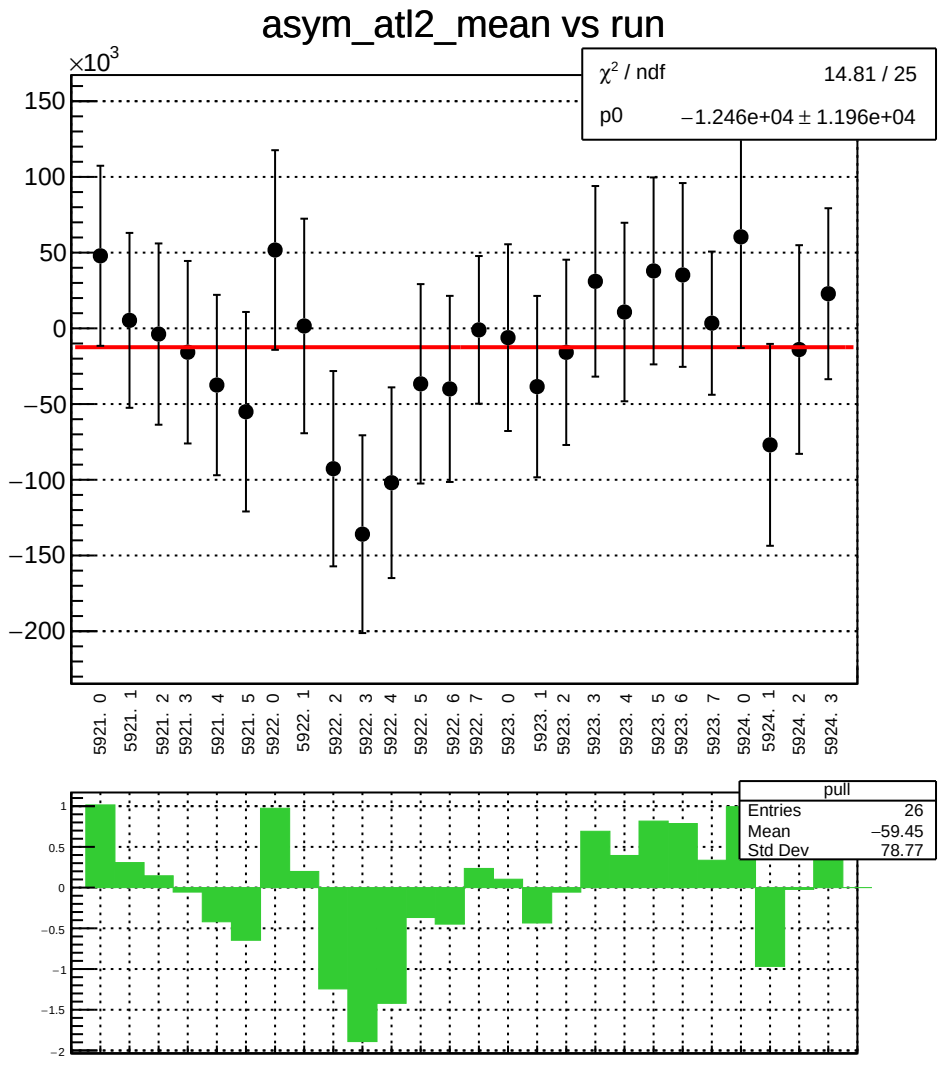

pull1D
Entries 26
Mean −0.007034
Std Dev 0.9484
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

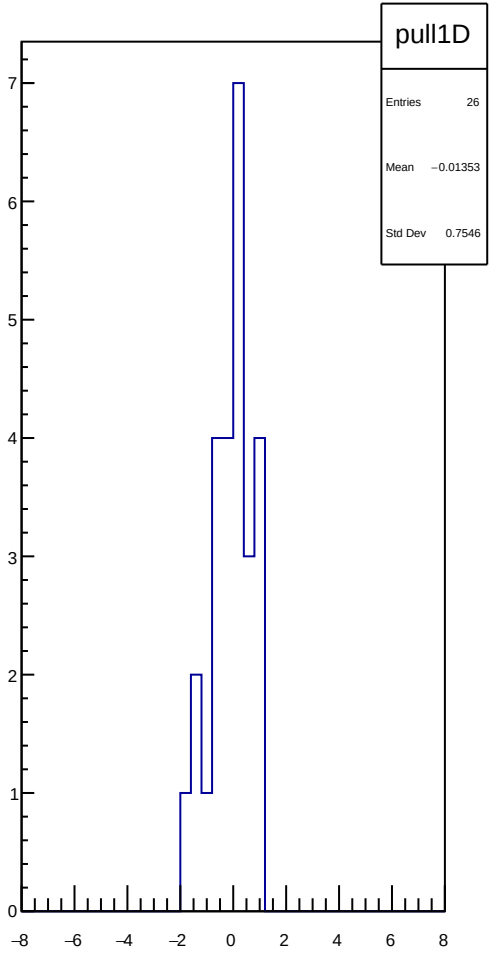

reg_asym_atl2_rms vs run
χ² / ndf 53.22 / 25
p0 2048 ± 2.892
2120
2100
2080
2060
2040
2020
2000
1980
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

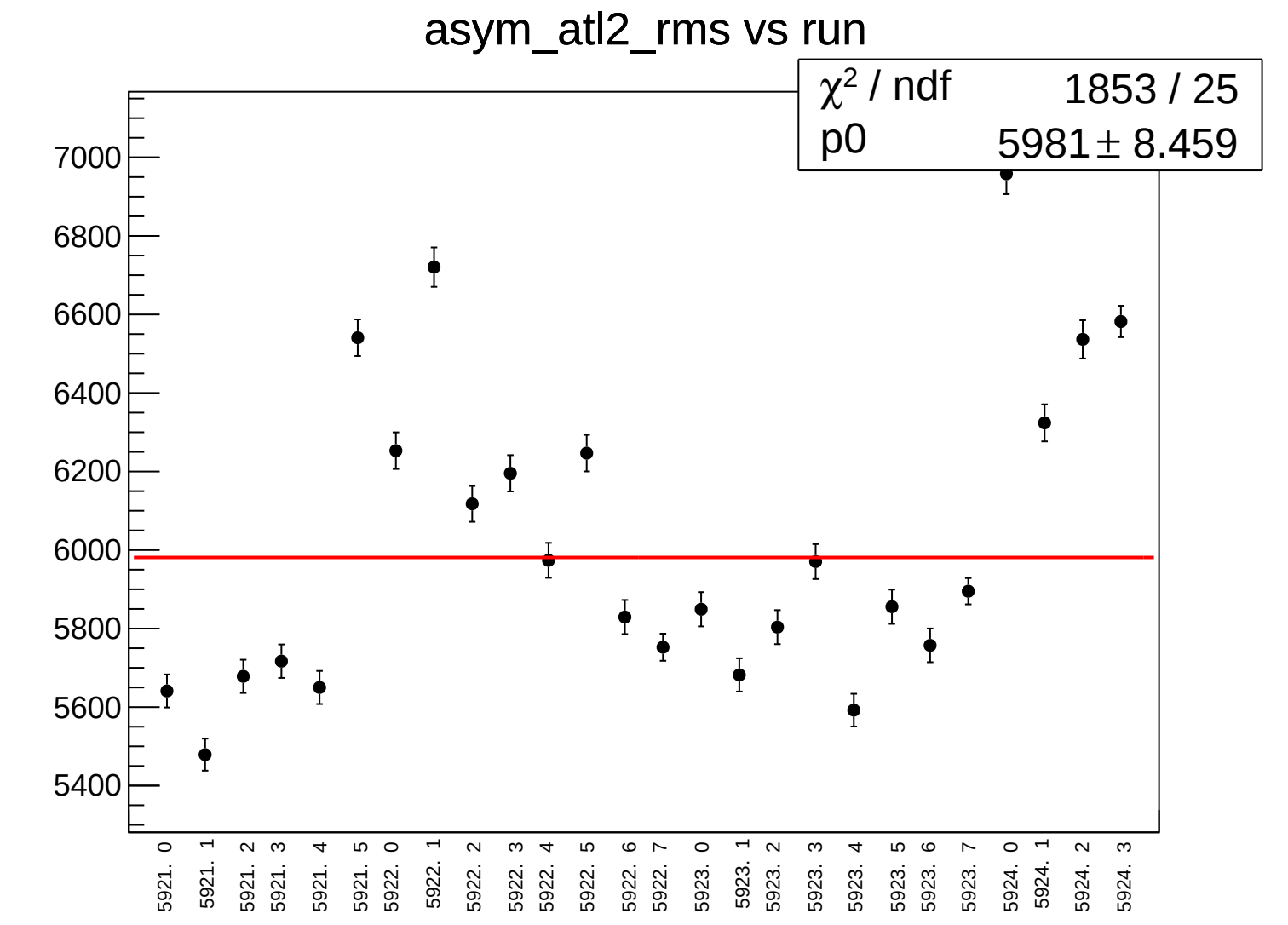

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 15.6 / 25
p0 9002 ± 1.123e+04
250
200
150
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −59.18
Std Dev 77.7
2.5
2
1.5
1
0.5
0
−0.5
−1

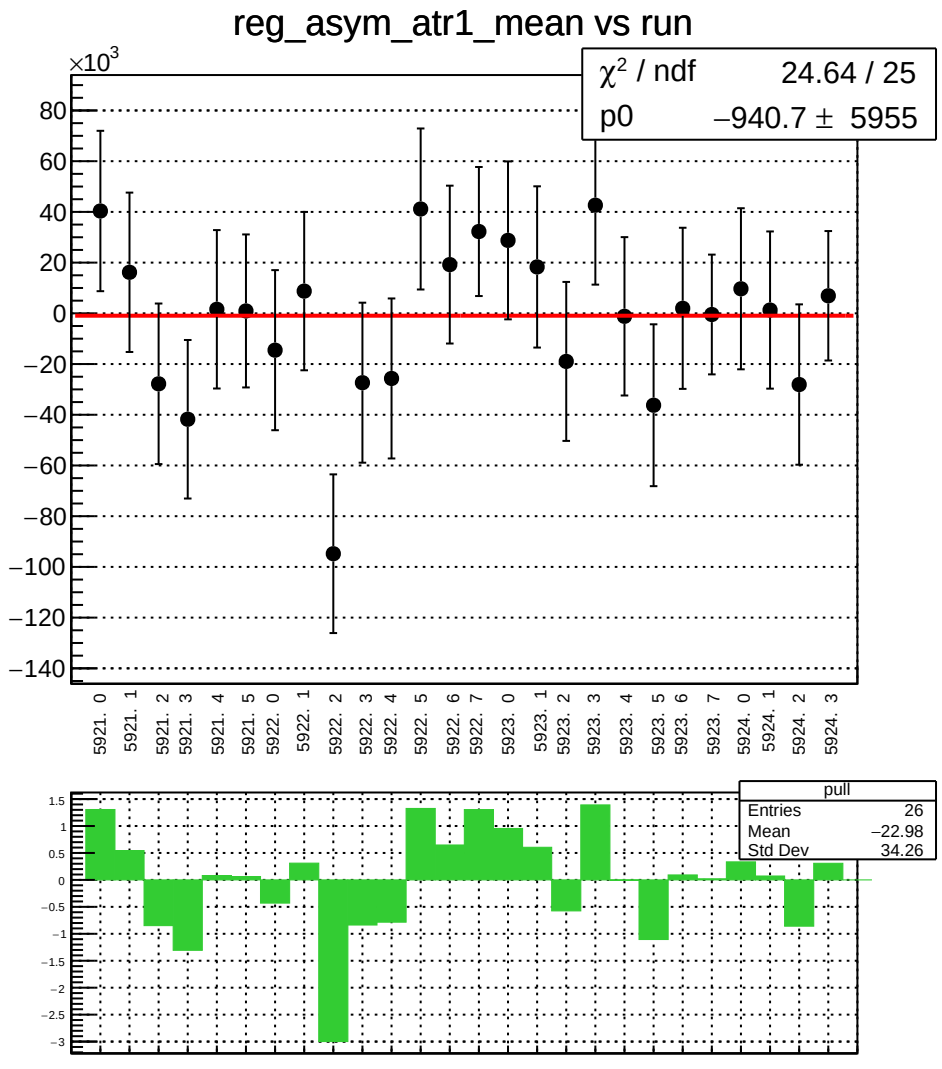

pull1D
Entries 26
Mean 0.01198
Std Dev 0.7745
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

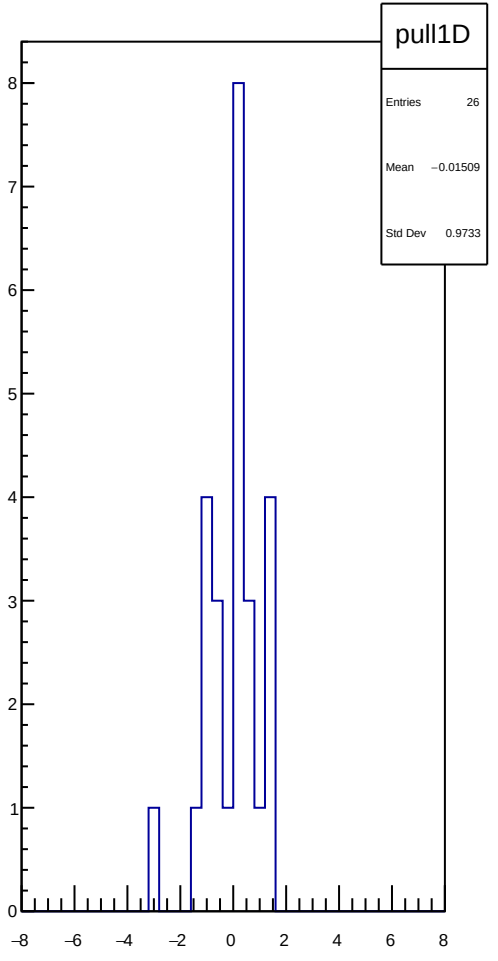

asym_atl2_correction_rms vs run
χ² / ndf 2304 / 25
p0 5613 ± 7.942
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

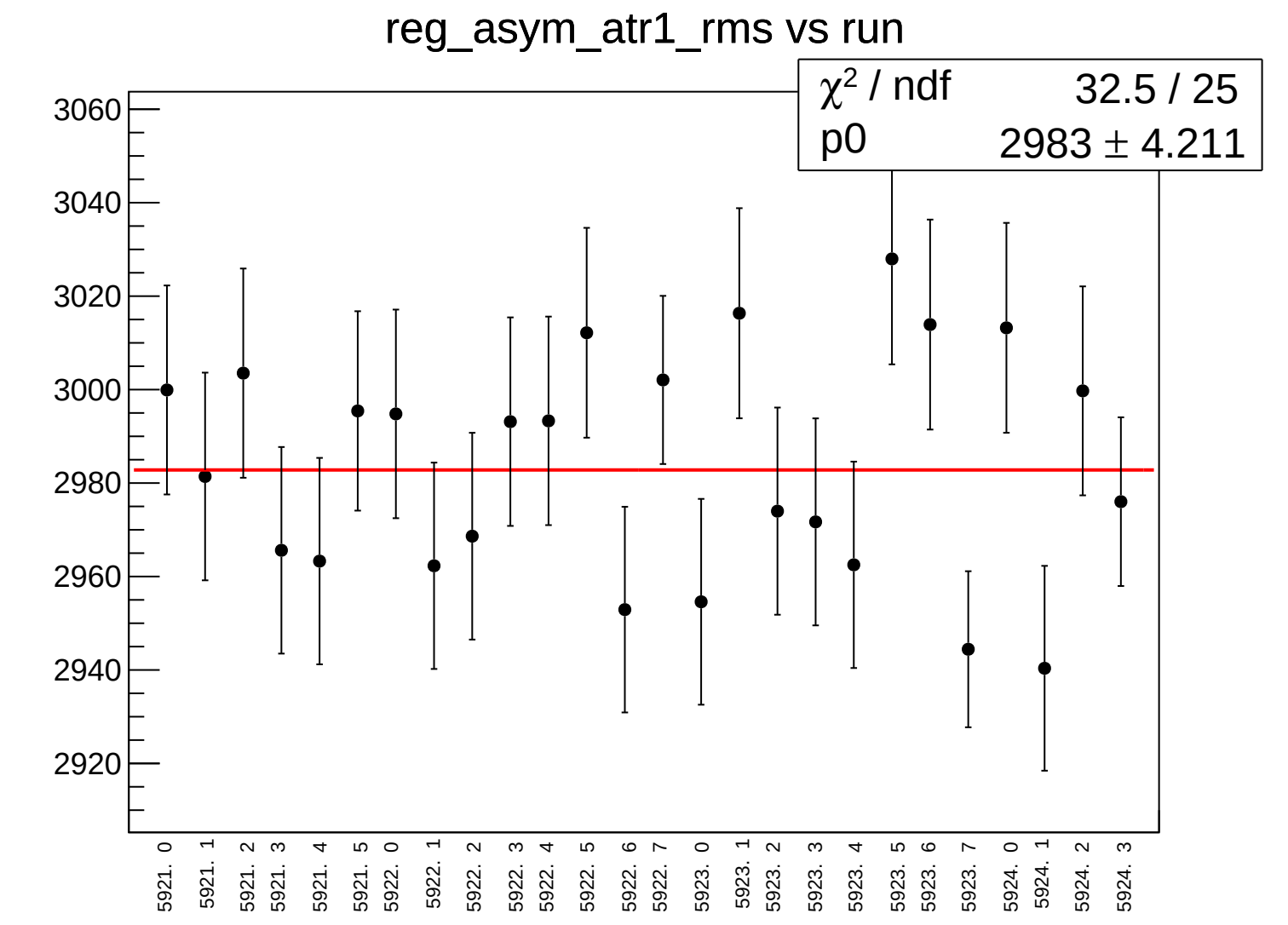

asym_atl2_mean vs run
×10^3
χ² / ndf 14.81 / 25
p0 −1.246e+04 ± 1.196e+04
150
100
50
0
−50
−100
−150
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −59.45
Std Dev 78.77
1
0.5
0
−0.5
−1
−1.5
−2

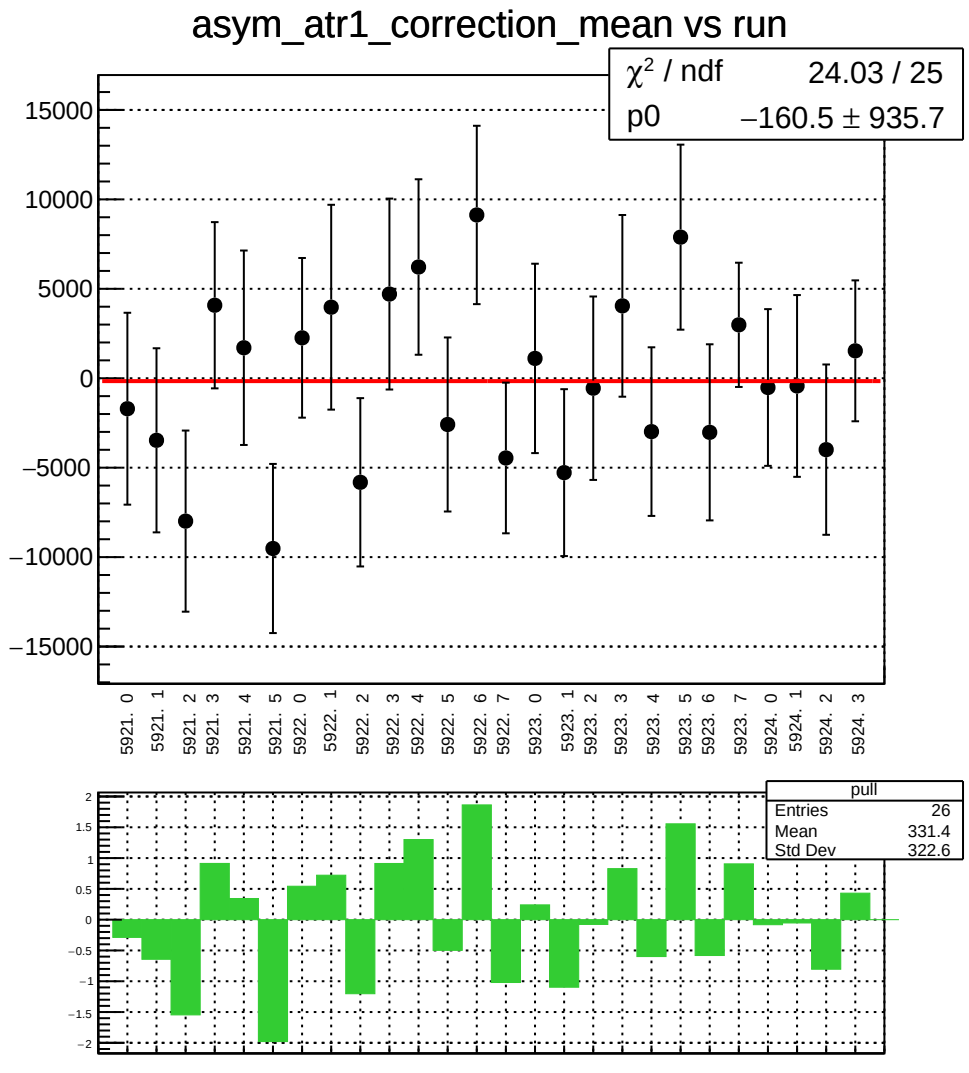

pull1D
Entries 26
Mean −0.01353
Std Dev 0.7546
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

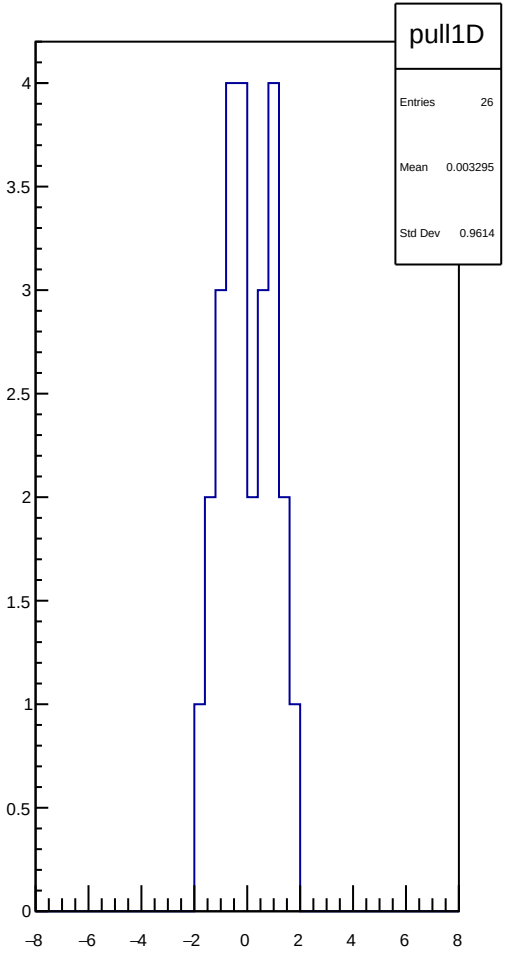

asym_atl2_rms vs run
χ² / ndf 1853 / 25
p0 5981 ± 8.459
7000
6800
6600
6400
6200
6000
5800
5600
5400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

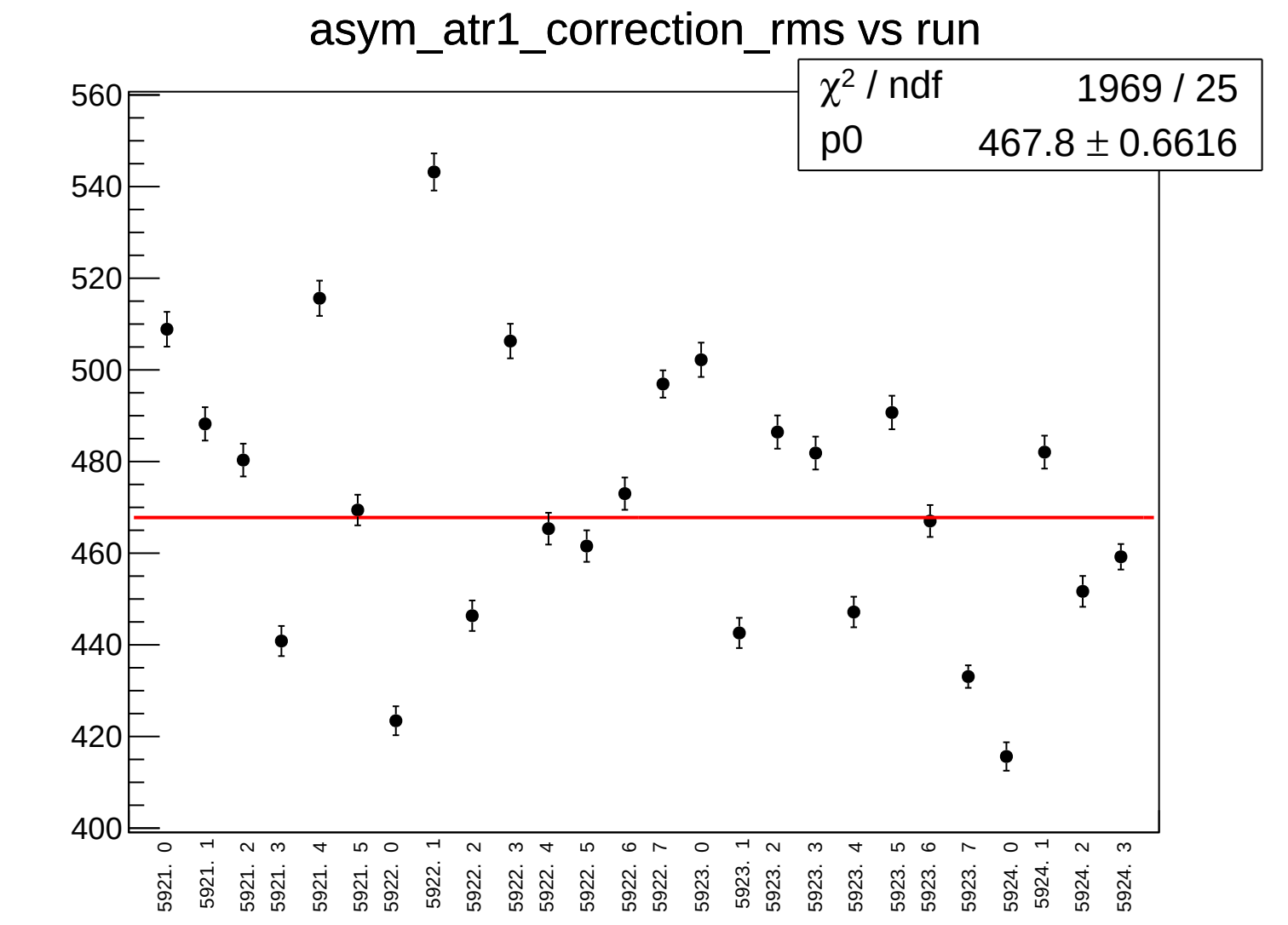

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 24.64 / 25
p0 −940.7 ± 5955
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −22.98
Std Dev 34.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

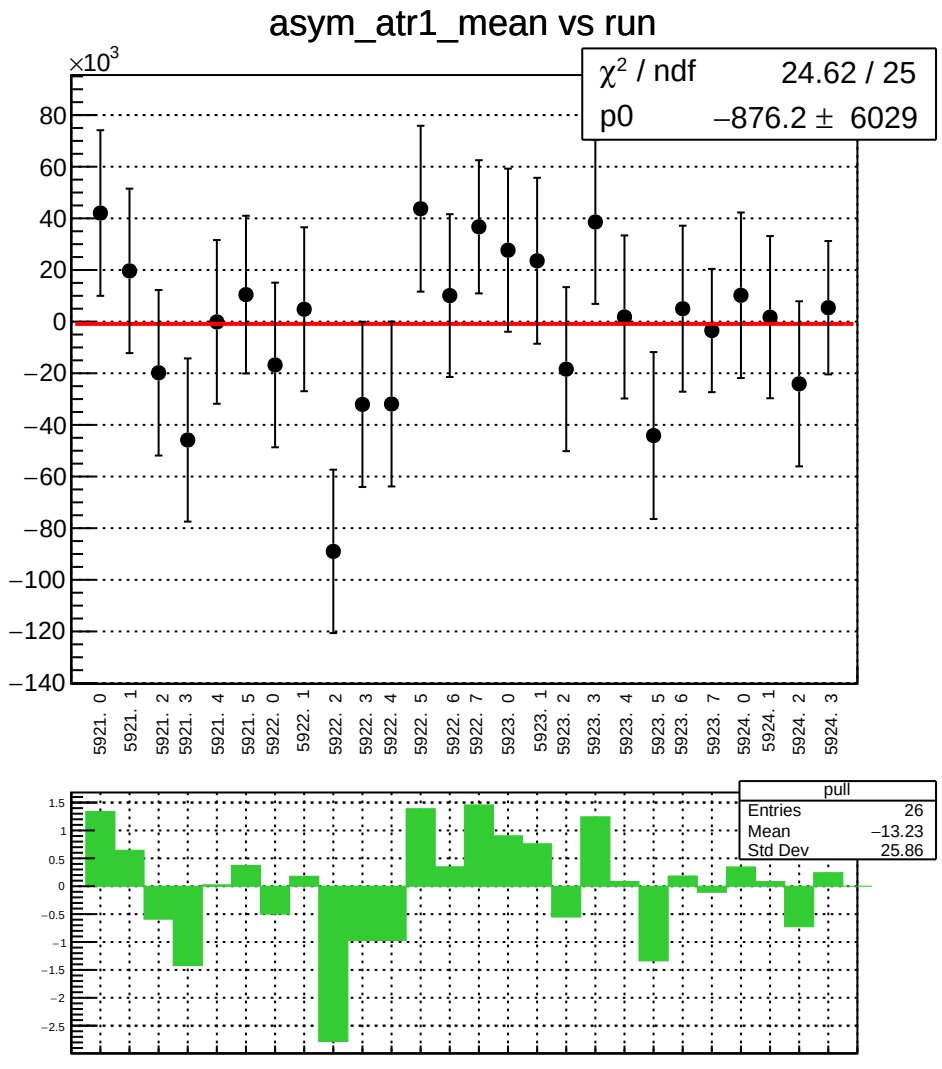

pull1D
Entries 26
Mean −0.01509
Std Dev 0.9733
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

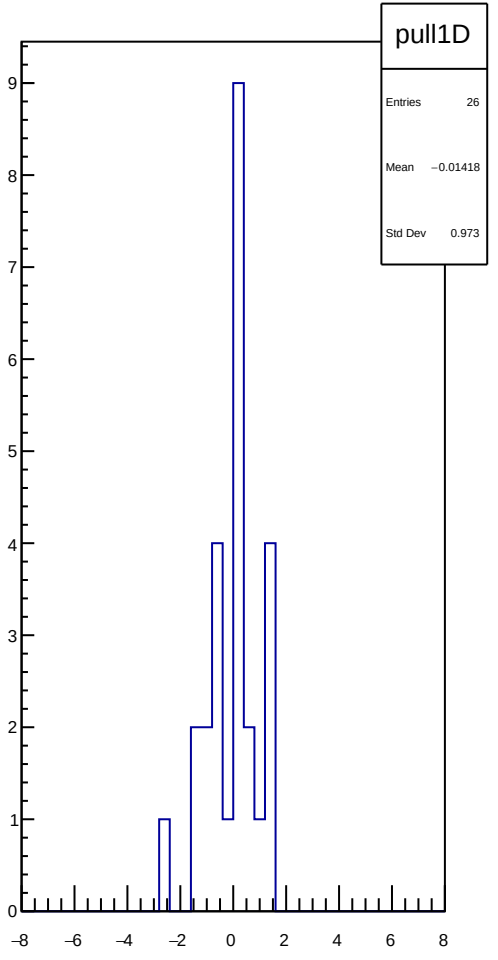

reg_asym_atr1_rms vs run
χ² / ndf 32.5 / 25
p0 2983 ± 4.211
3060
3040
3020
3000
2980
2960
2940
2920
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

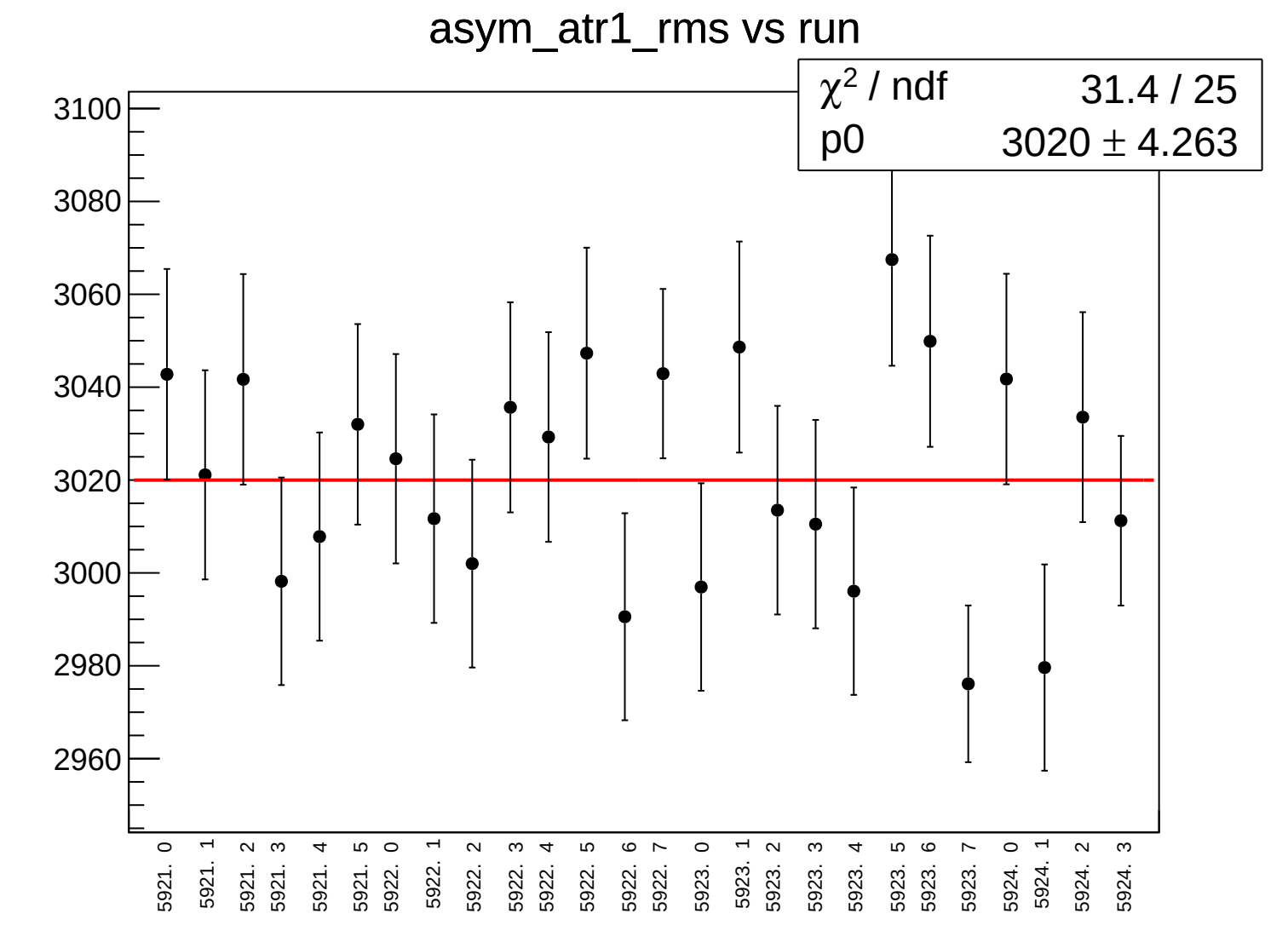

asym_atr1_correction_mean vs run
χ² / ndf 24.03 / 25
p0 −160.5 ± 935.7
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 331.4
Std Dev 322.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

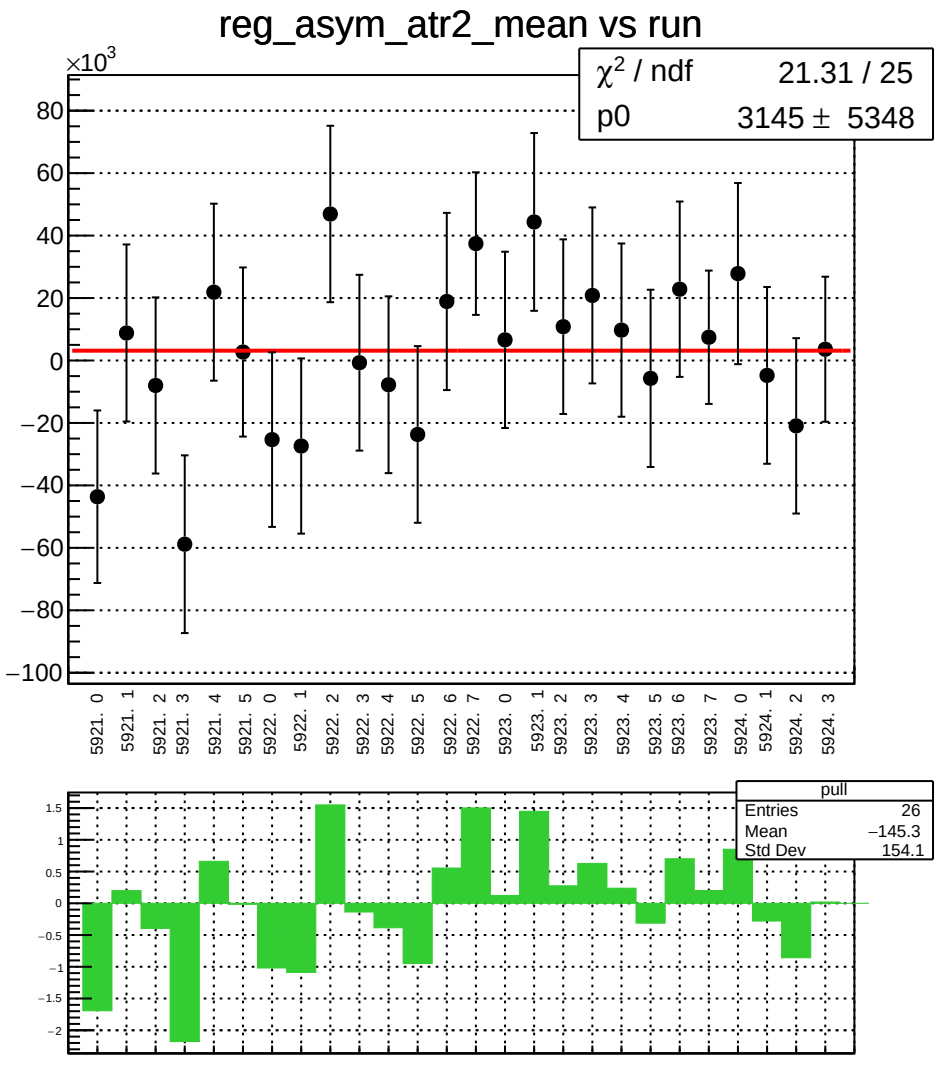

pull1D
Entries 26
Mean 0.003295
Std Dev 0.9614
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

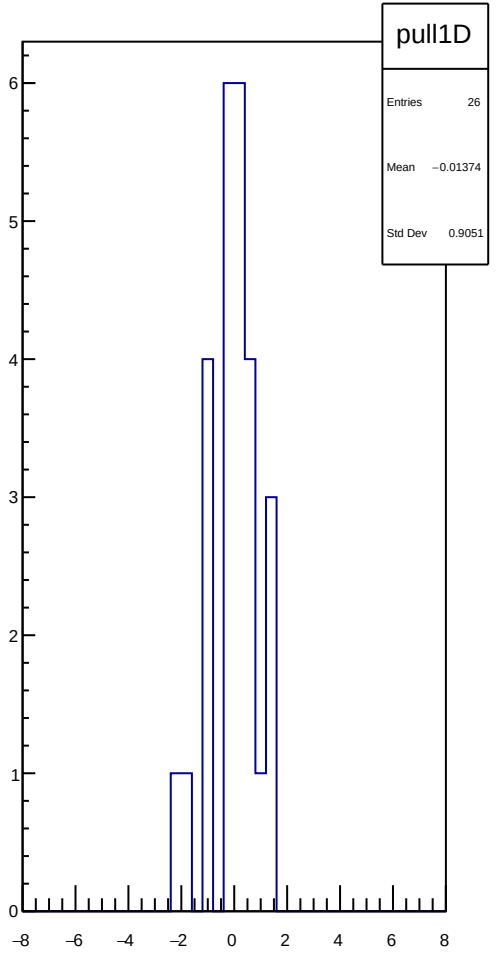

asym_atr1_correction_rms vs run
χ² / ndf 1969 / 25
p0 467.8 ± 0.6616
560
540
520
500
480
460
440
420
400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

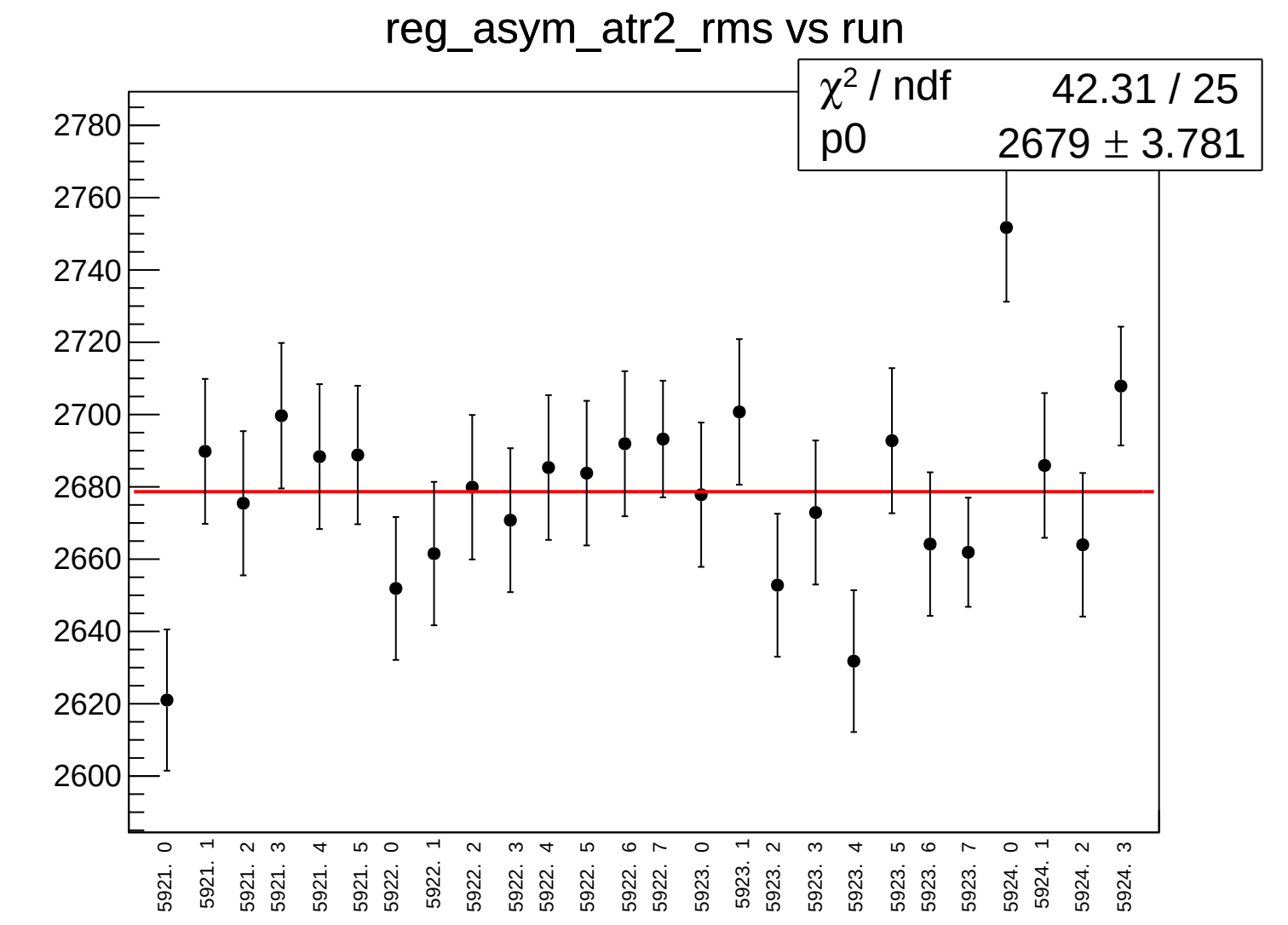

asym_atr1_mean vs run
×10^3
χ² / ndf 24.62 / 25
p0 −876.2 ± 6029
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −13.23
Std Dev 25.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

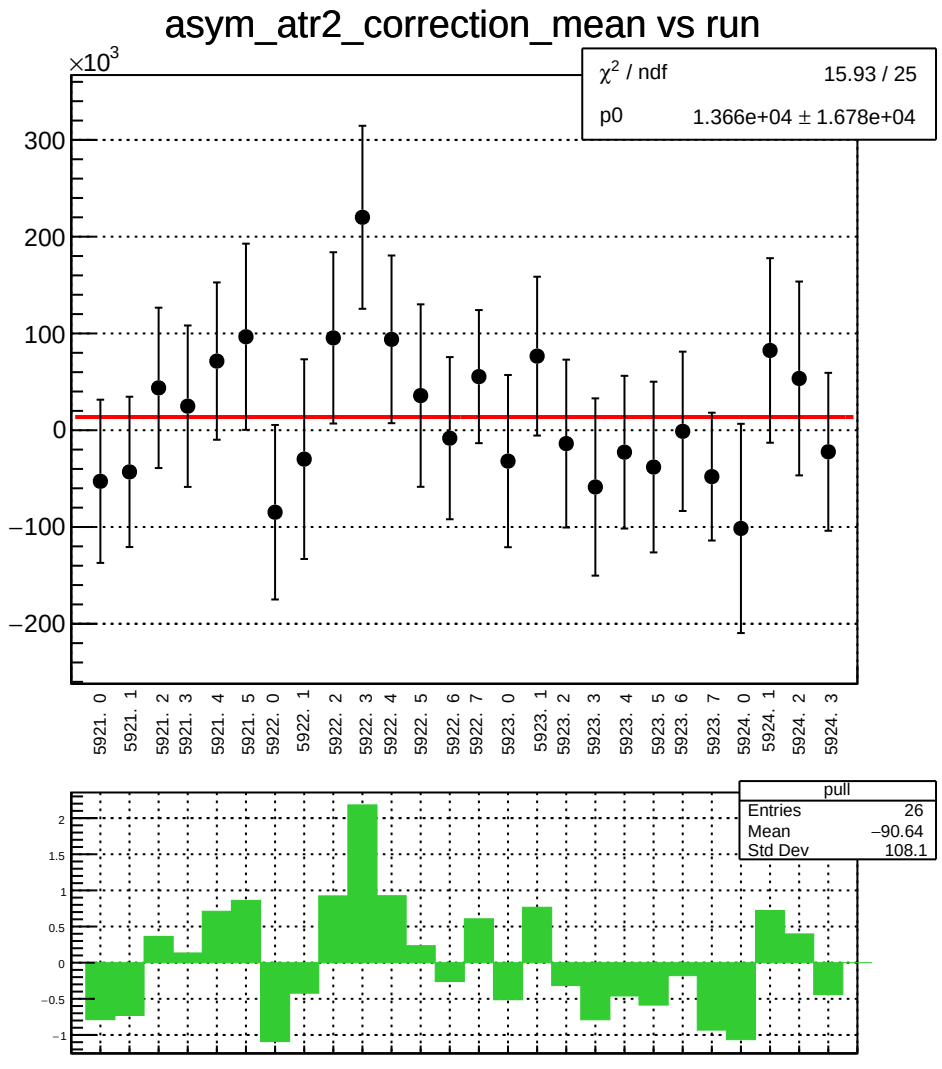

pull1D
Entries 26
Mean −0.01418
Std Dev 0.973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

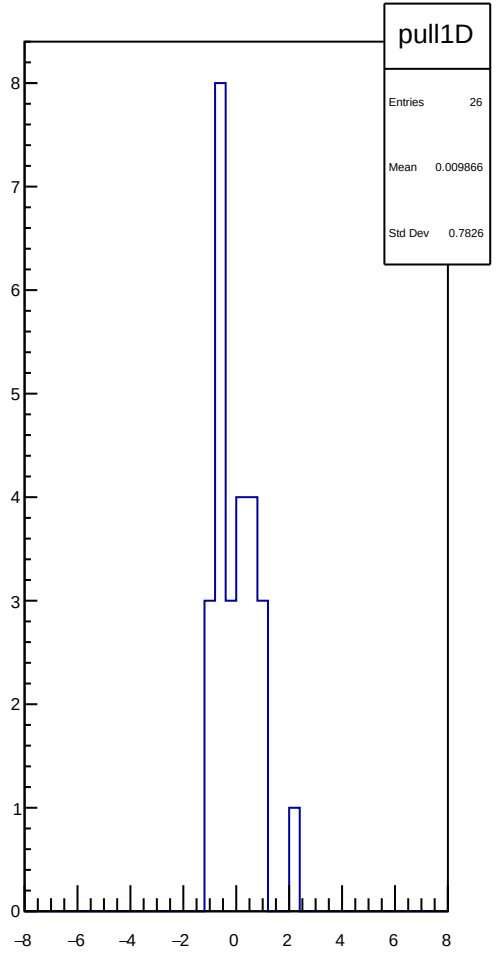

asym_atr1_rms vs run
χ² / ndf 31.4 / 25
p0 3020 ± 4.263
3100
3080
3060
3040
3020
3000
2980
2960
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

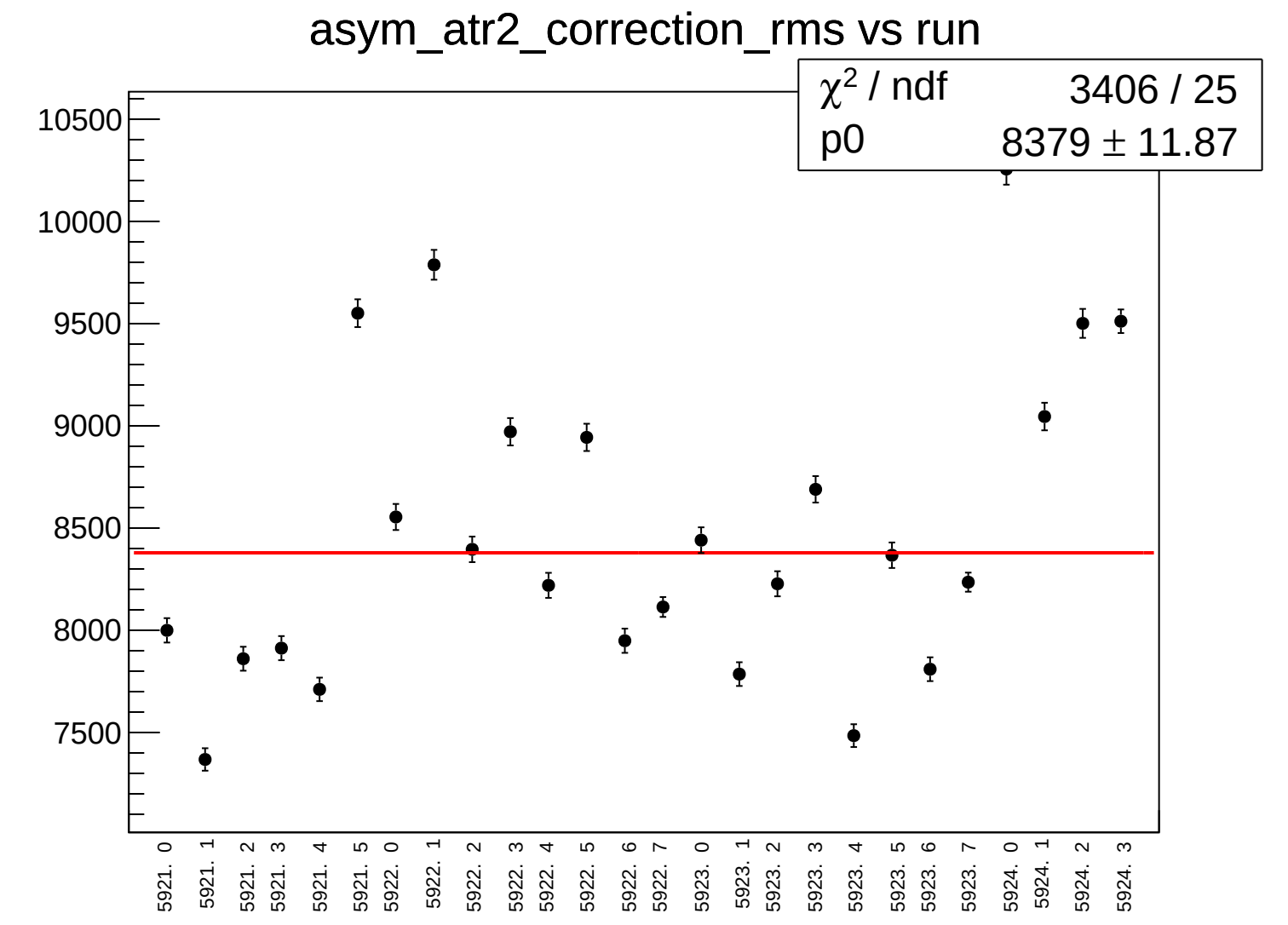

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 21.31 / 25
p0 3145 ± 5348
80
60
40
20
0
−20
−40
−60
−80
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −145.3
Std Dev 154.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

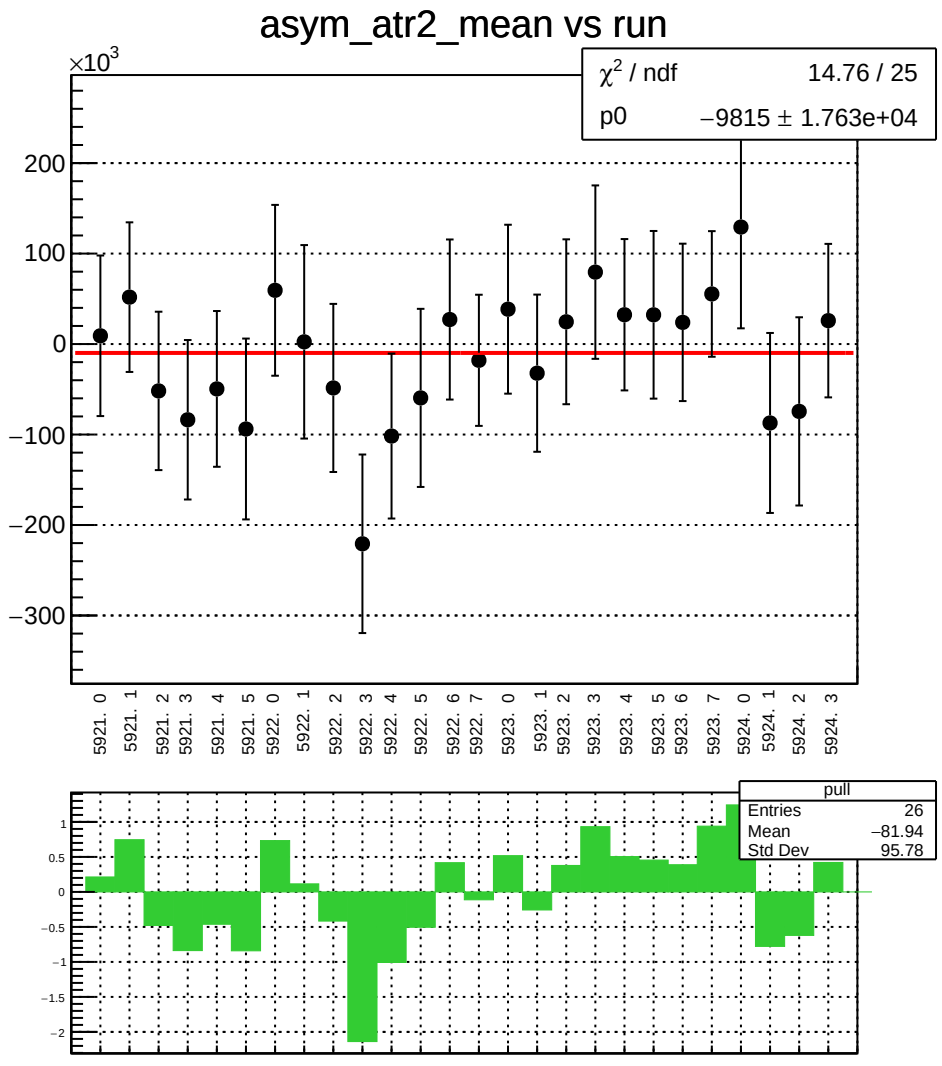

pull1D
Entries 26
Mean −0.01374
Std Dev 0.9051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

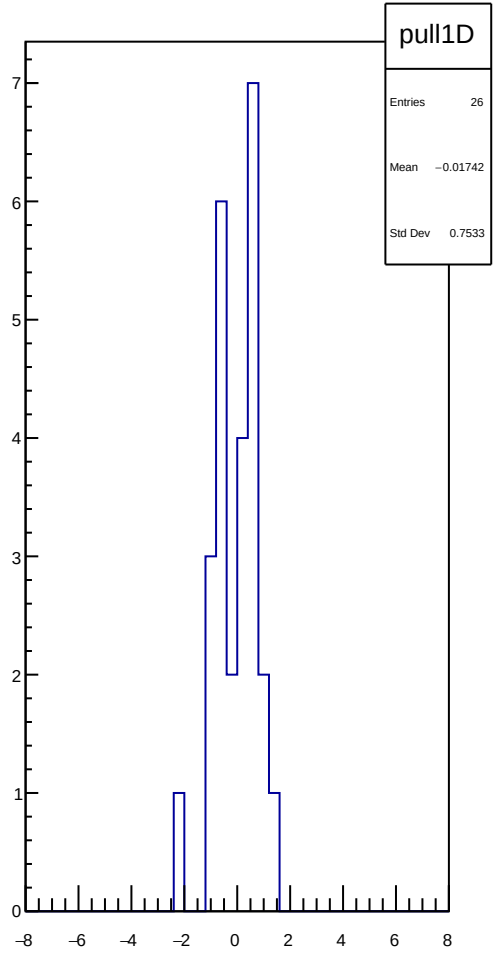

reg_asym_atr2_rms vs run
χ² / ndf 42.31 / 25
p0 2679 ± 3.781
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

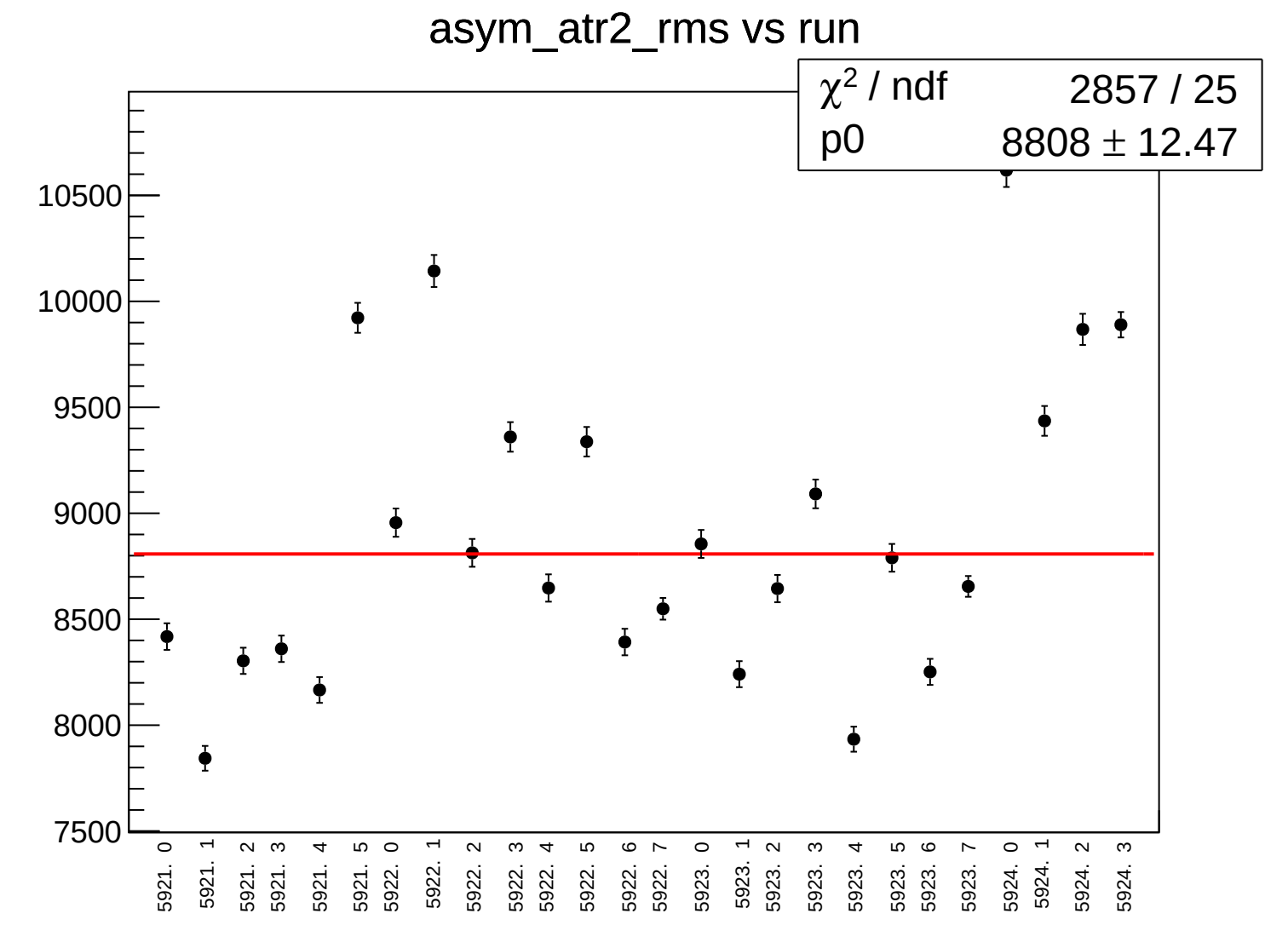

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 15.93 / 25
p0 1.366e+04 ± 1.678e+04
300
200
100
0
−100
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −90.64
Std Dev 108.1
2
1.5
1
0.5
0
−0.5
−1

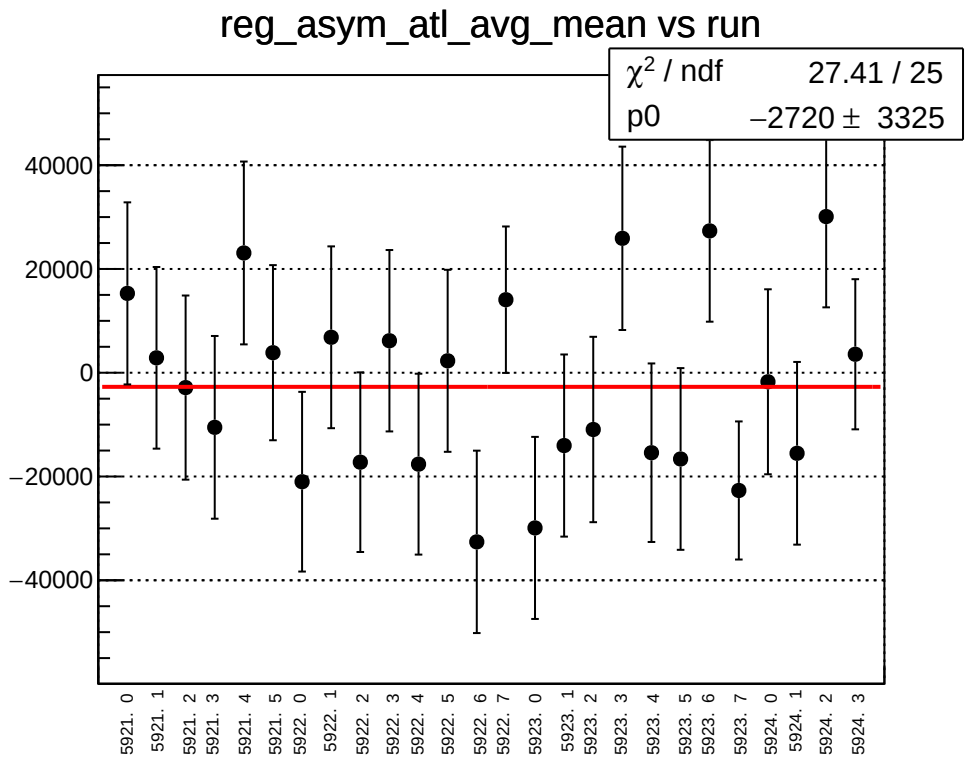

pull1D
Entries 26
Mean 0.009866
Std Dev 0.7826
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

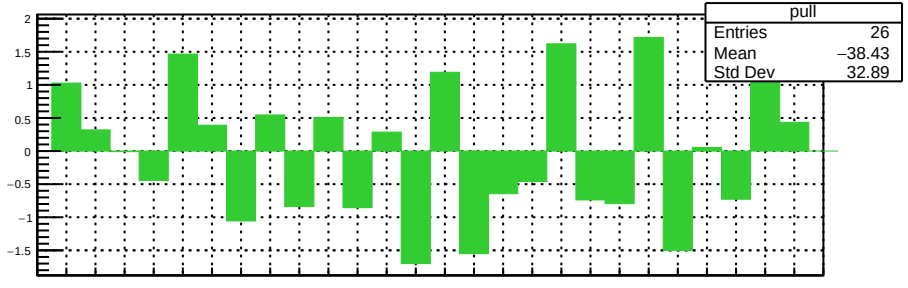

asym_atr2_correction_rms vs run
χ² / ndf 3406 / 25
p0 8379 ± 11.87
10500
10000
9500
9000
8500
8000
7500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

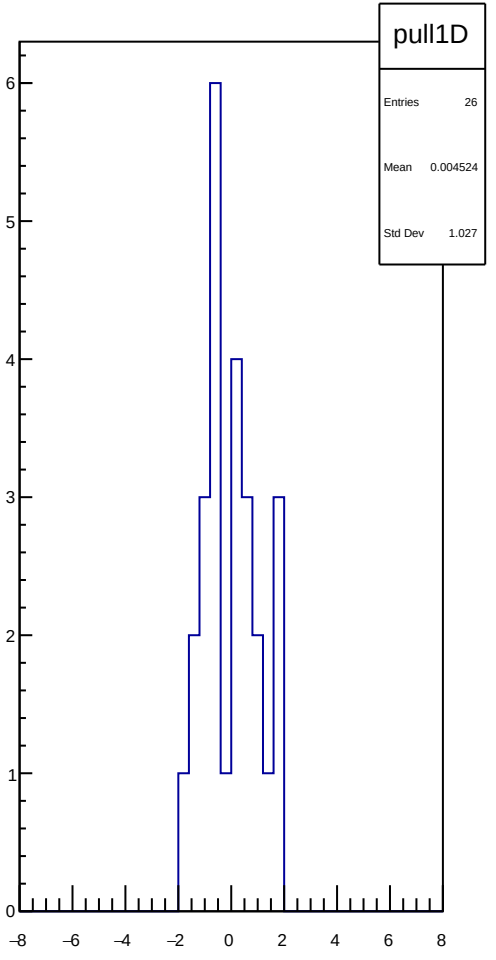

asym_atr2_mean vs run
×10^3
χ² / ndf 14.76 / 25
p0 −9815 ± 1.763e+04
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −81.94
Std Dev 95.78
1
0.5
0
−0.5
−1
−1.5
−2

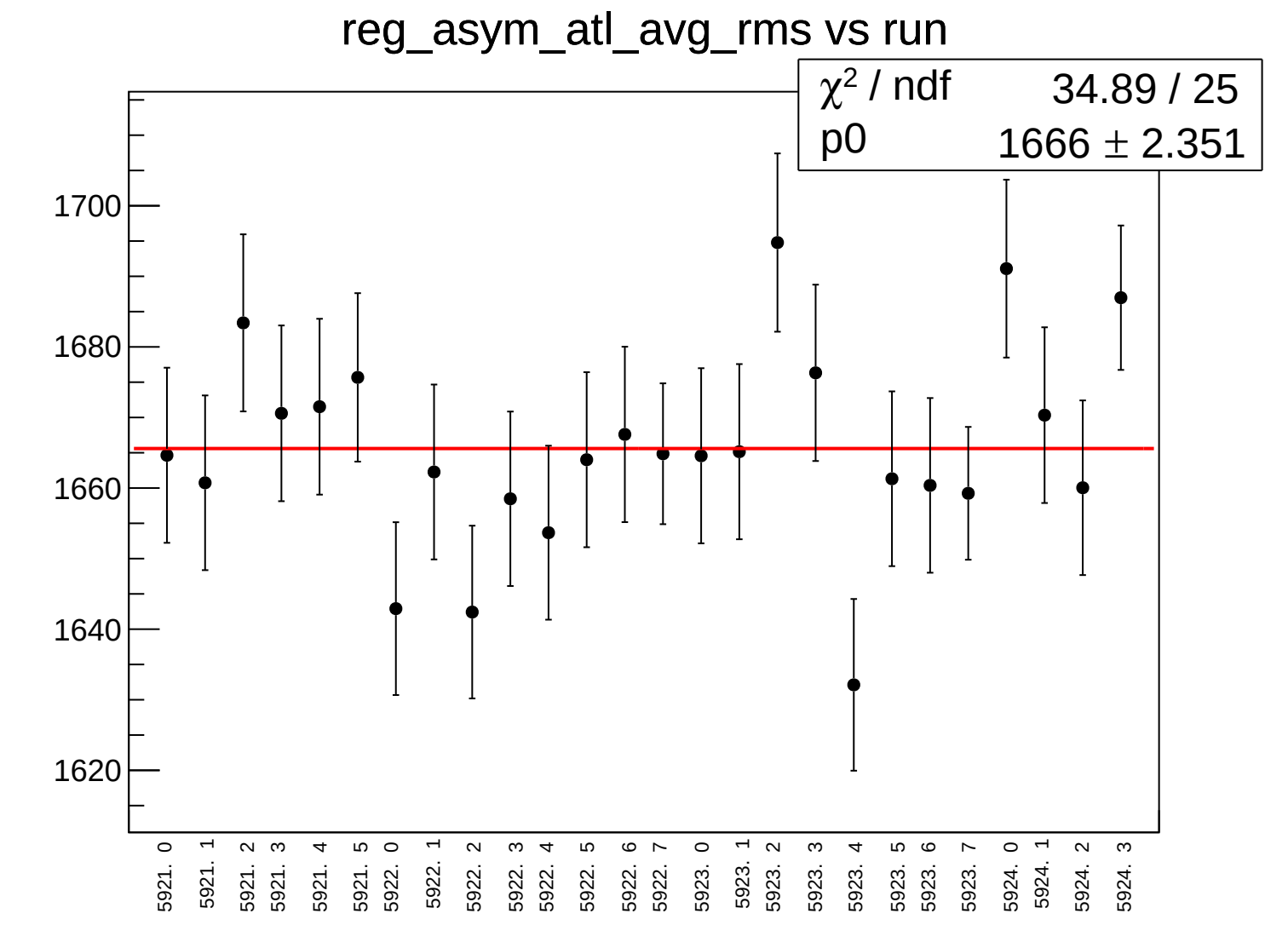

pull1D
Entries 26
Mean −0.01742
Std Dev 0.7533
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

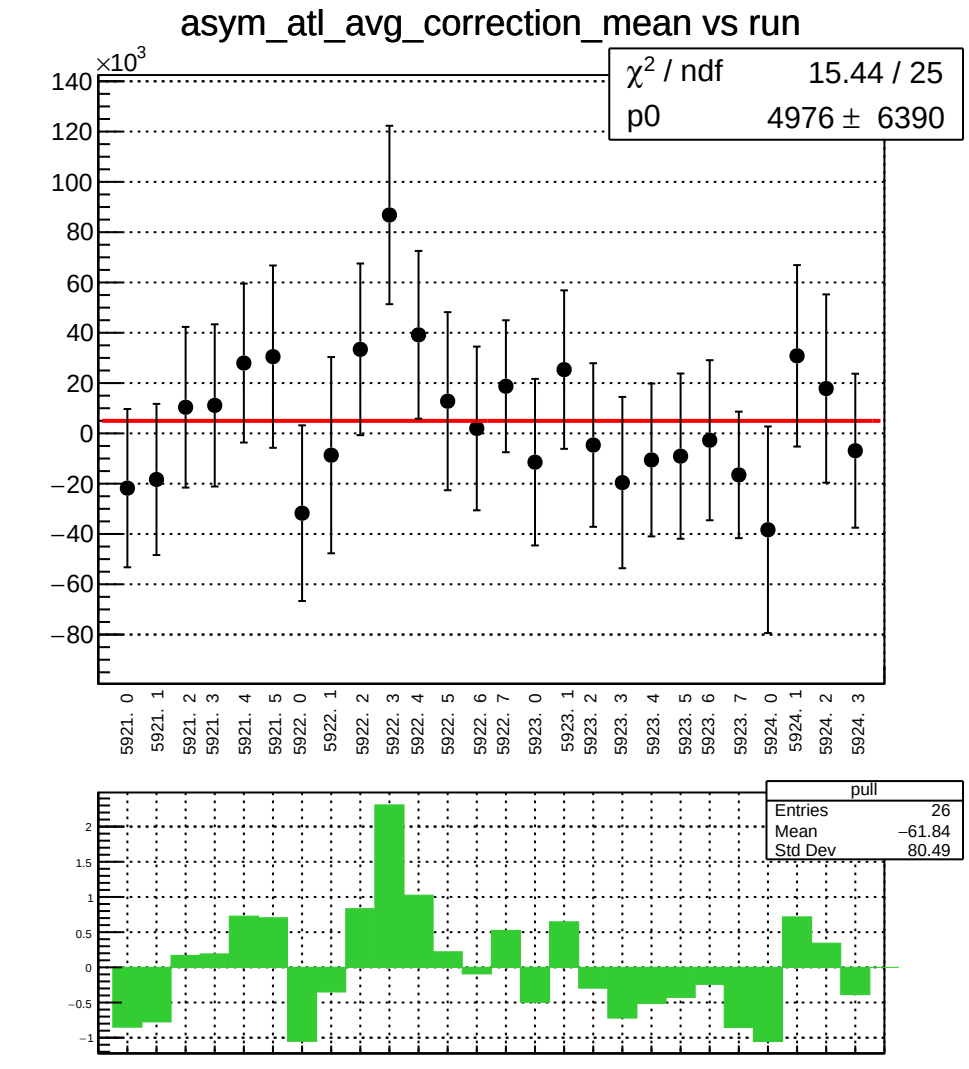

asym_atr2_rms vs run
χ² / ndf 2857 / 25
p0 8808 ± 12.47
10500
10000
9500
9000
8500
8000
7500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

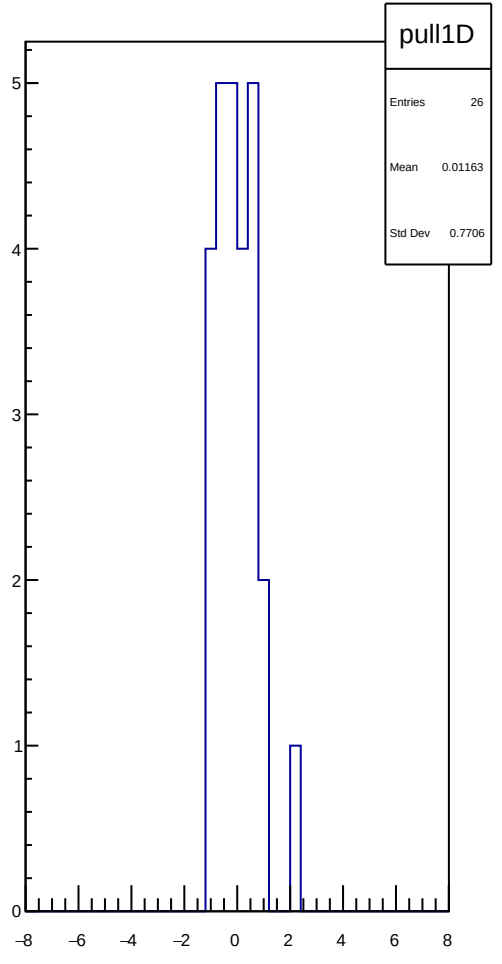

reg_asym_atl_avg_mean vs run
χ² / ndf 27.41 / 25
p0 −2720 ± 3325
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

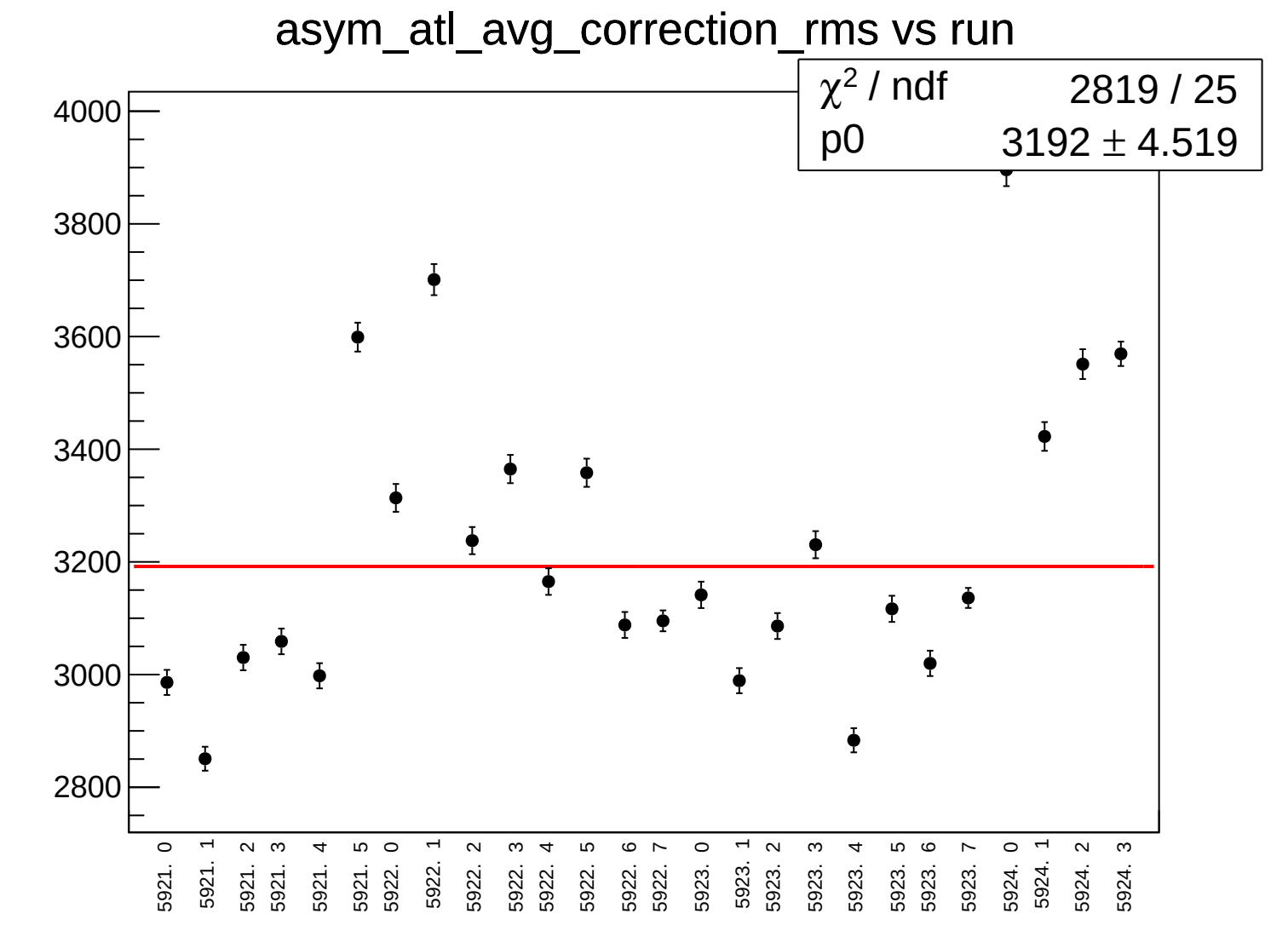

pull
Entries 26
Mean −38.43
Std Dev 32.89
2
1.5
1
0.5
0
−0.5
−1
−1.5

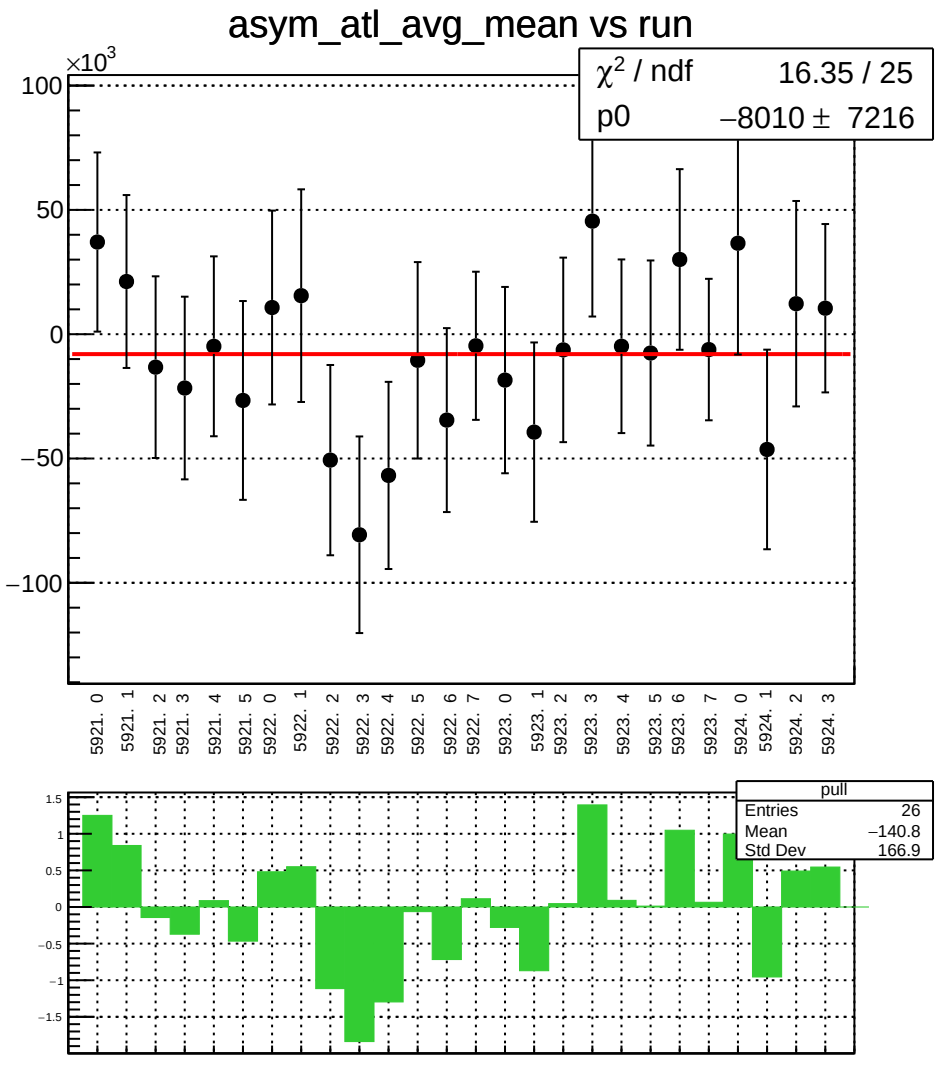

pull1D
Entries 26
Mean 0.004524
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

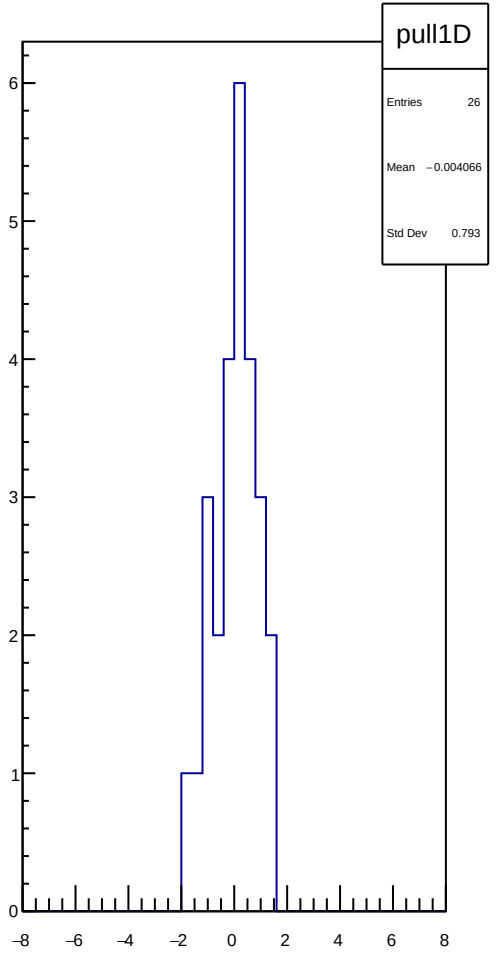

reg_asym_atl_avg_rms vs run
χ² / ndf 34.89 / 25
p0 1666 ± 2.351
1700
1680
1660
1640
1620
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

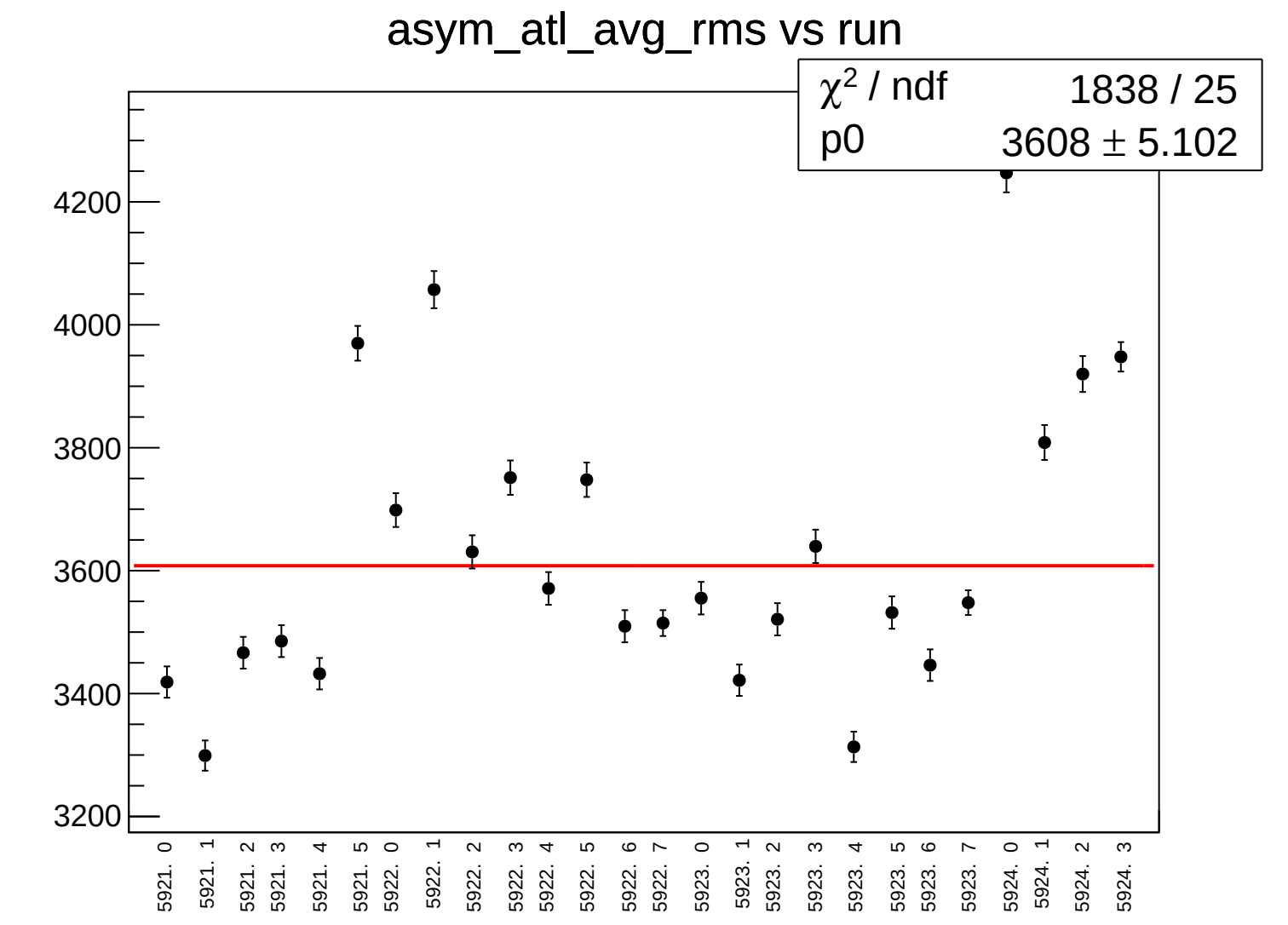

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 15.44 / 25
p0 4976 ± 6390
140
120
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −61.84
Std Dev 80.49
2
1.5
1
0.5
0
−0.5
−1

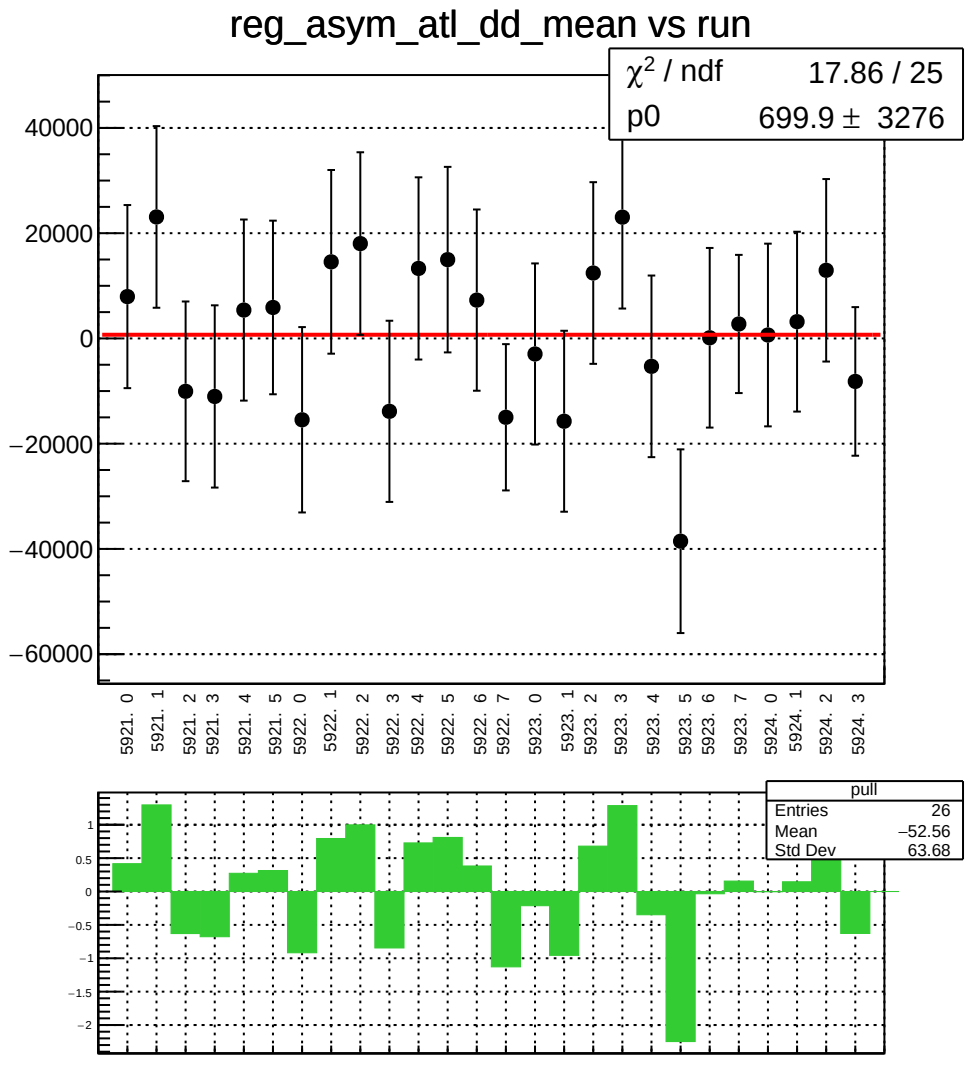

pull1D
Entries 26
Mean 0.01163
Std Dev 0.7706
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

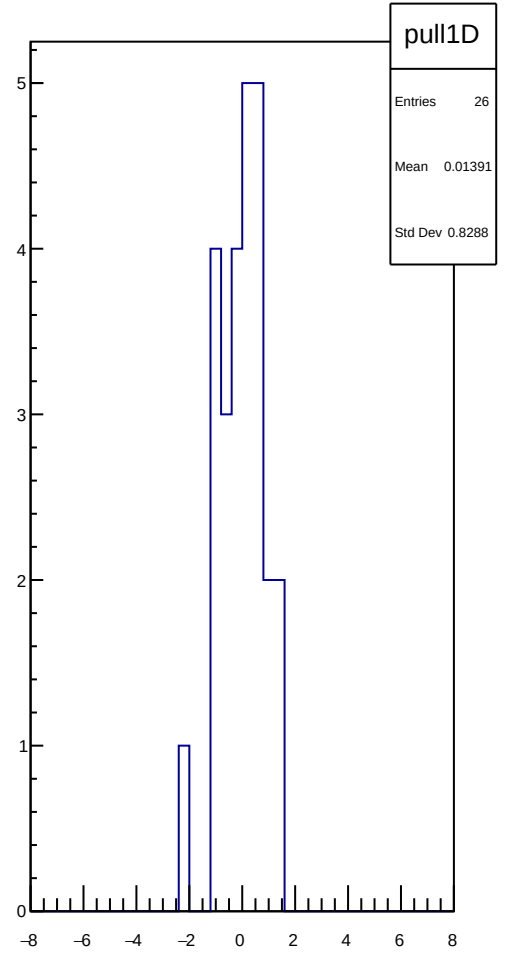

asym_atl_avg_correction_rms vs run
χ² / ndf 2819 / 25
p0 3192 ± 4.519
4000
3800
3600
3400
3200
3000
2800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

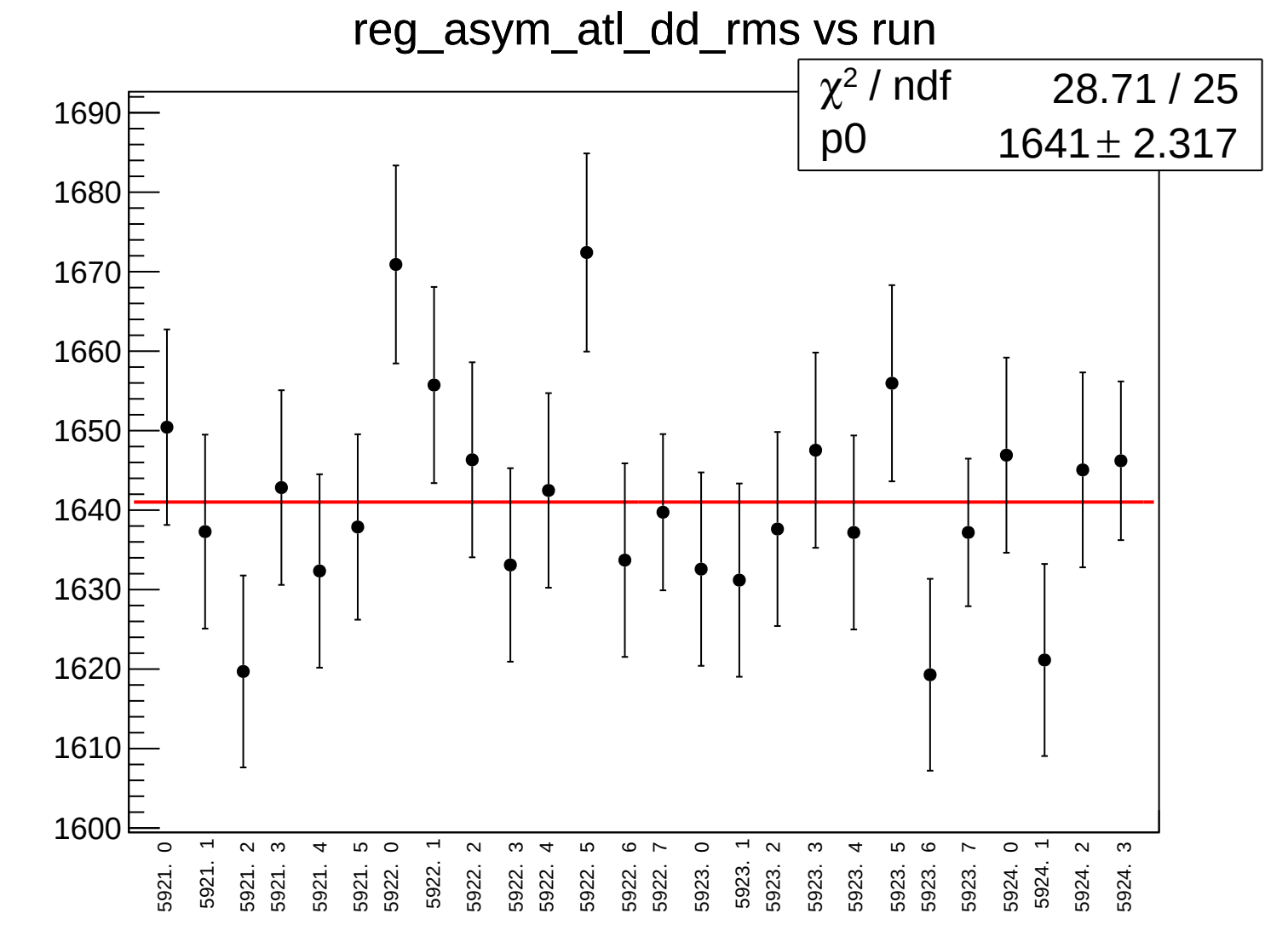

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 16.35 / 25
p0 −8010 ± 7216
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −140.8
Std Dev 166.9
1.5
1
0.5
0
−0.5
−1
−1.5

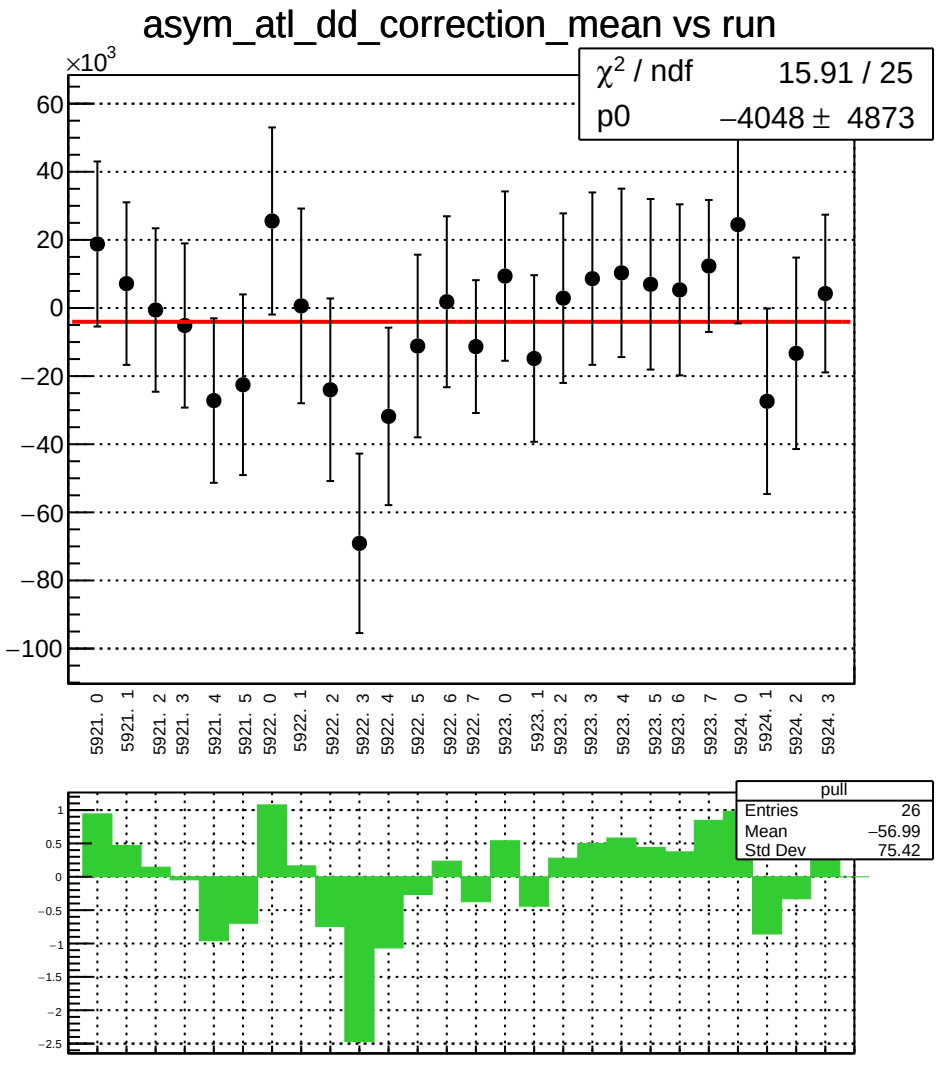

pull1D
Entries 26
Mean −0.004066
Std Dev 0.793
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

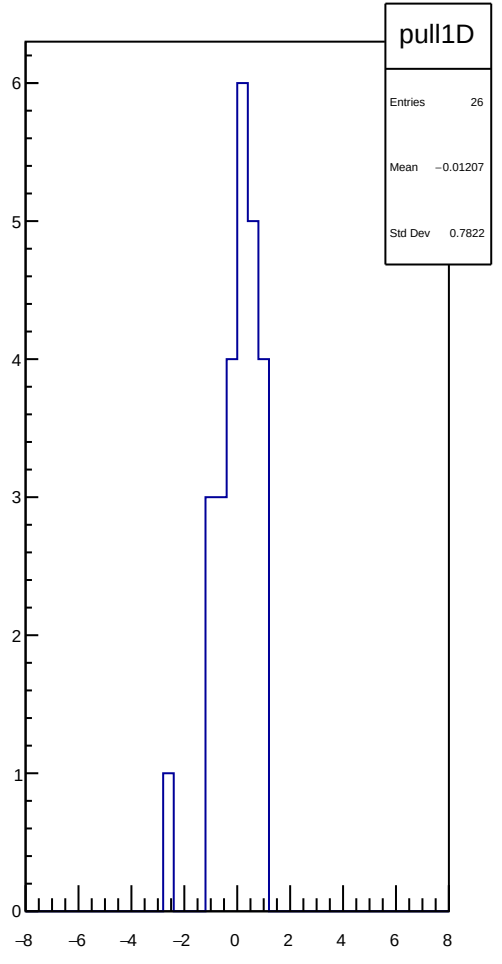

asym_atl_avg_rms vs run
χ² / ndf 1838 / 25
p0 3608 ± 5.102
4200
4000
3800
3600
3400
3200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

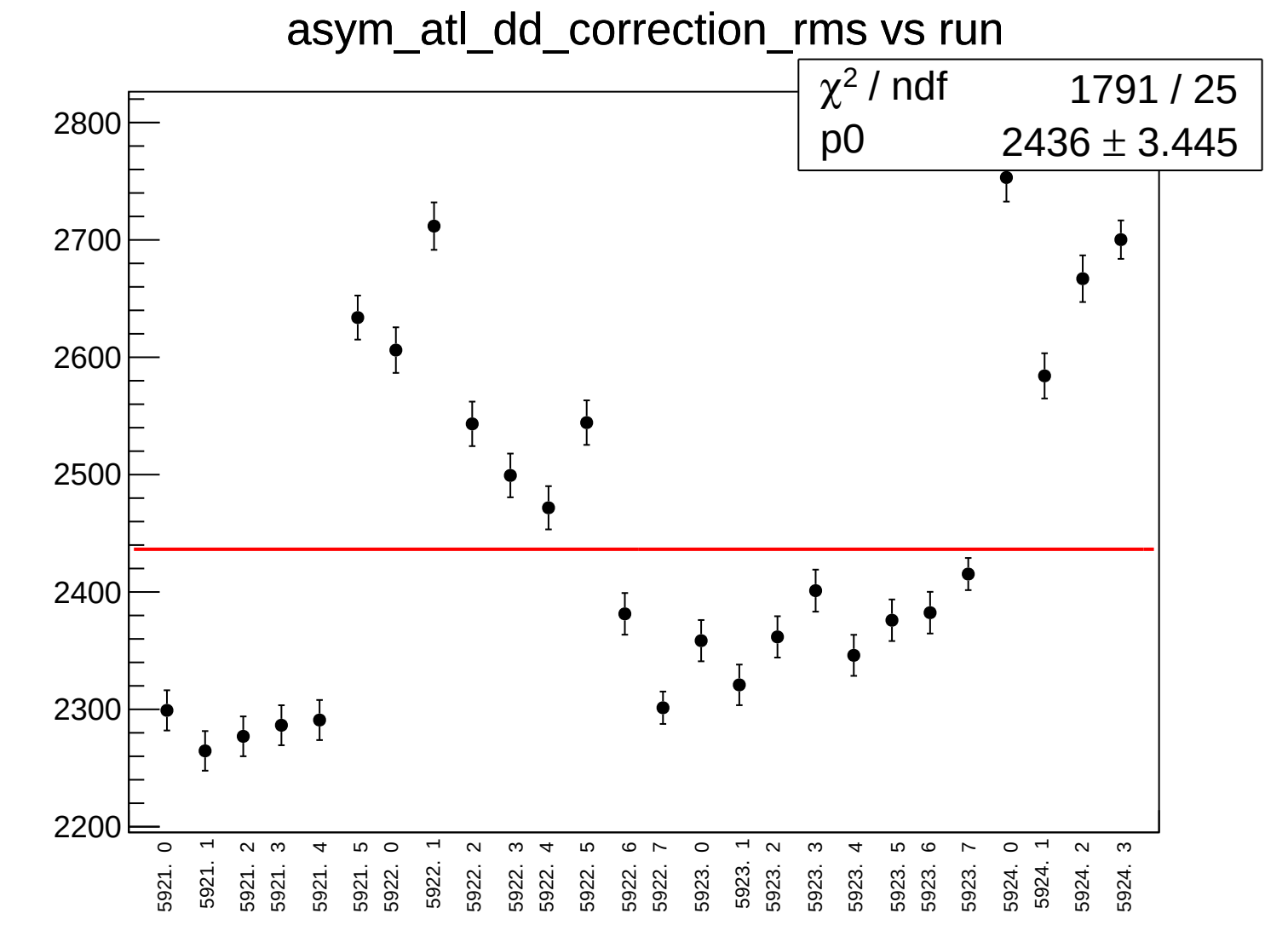

reg_asym_atl_dd_mean vs run
χ² / ndf 17.86 / 25
p0 699.9 ± 3276
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −52.56
Std Dev 63.68
1
0.5
0
−0.5
−1
−1.5
−2

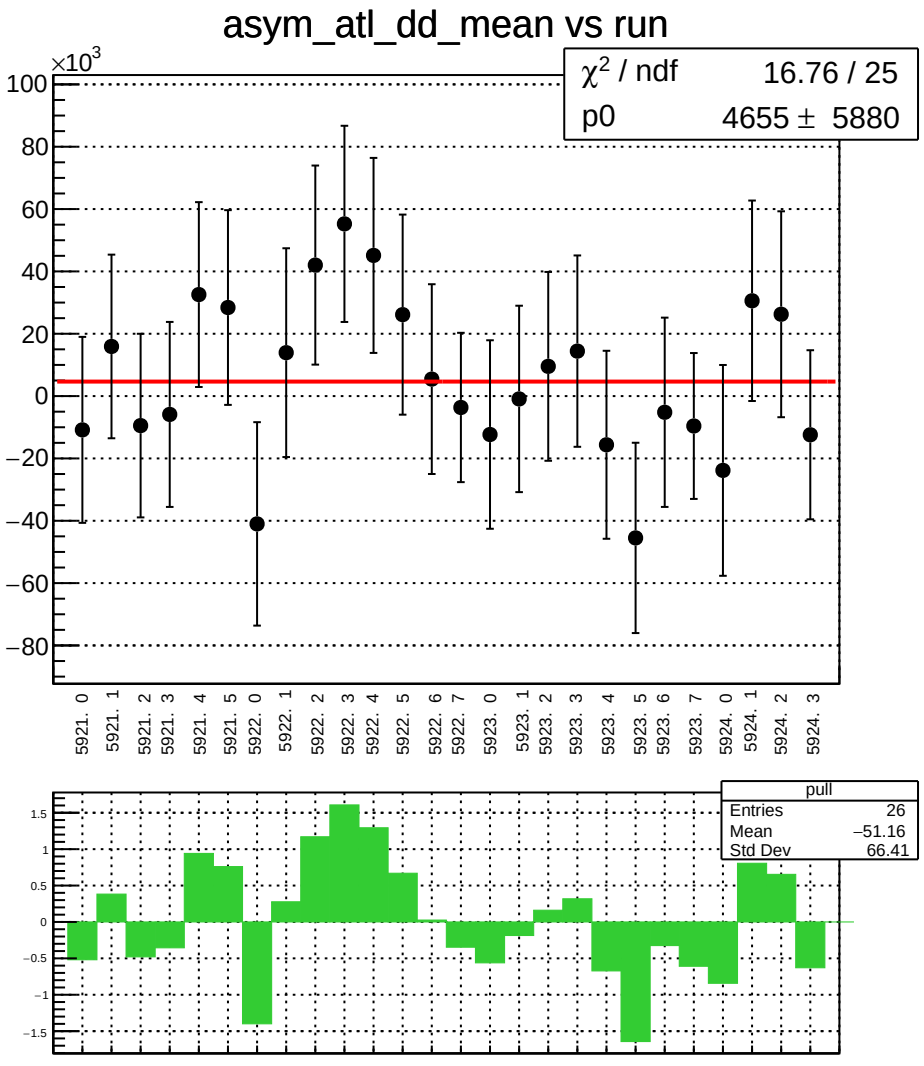

pull1D
Entries 26
Mean 0.01391
Std Dev 0.8288
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

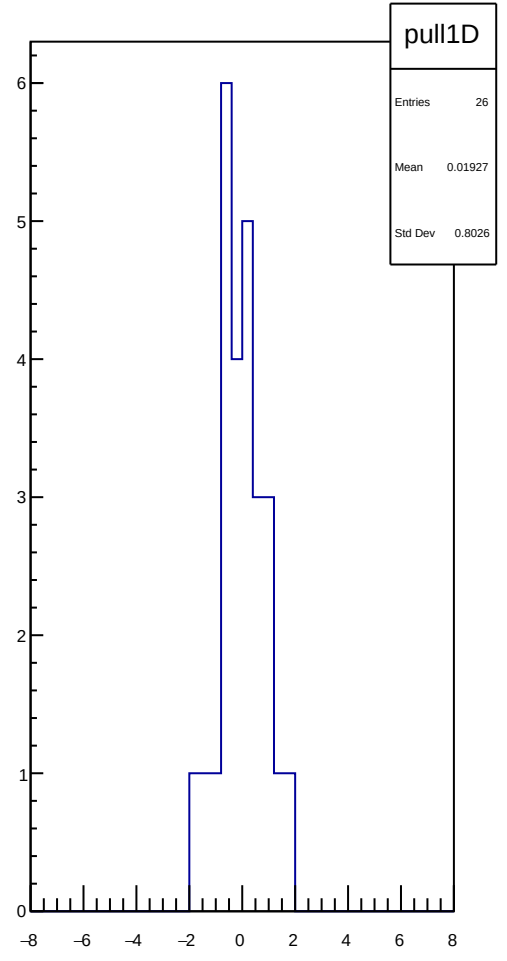

reg_asym_atl_dd_rms vs run
χ² / ndf 28.71 / 25
p0 1641 ± 2.317
1690
1680
1670
1660
1650
1640
1630
1620
1610
1600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

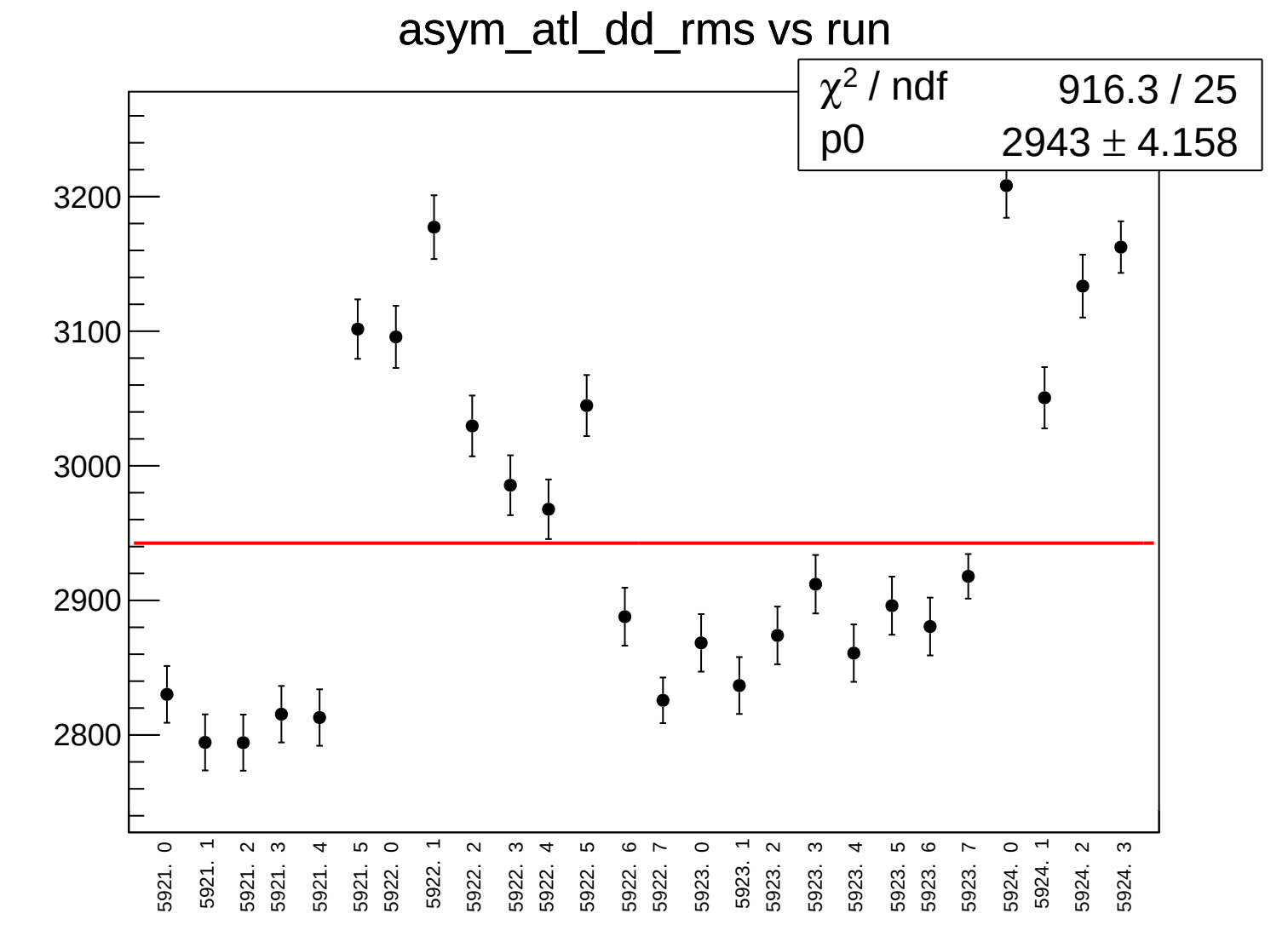

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 15.91 / 25
p0 −4048 ± 4873
60
40
20
0
−20
−40
−60
−80
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −56.99
Std Dev 75.42
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

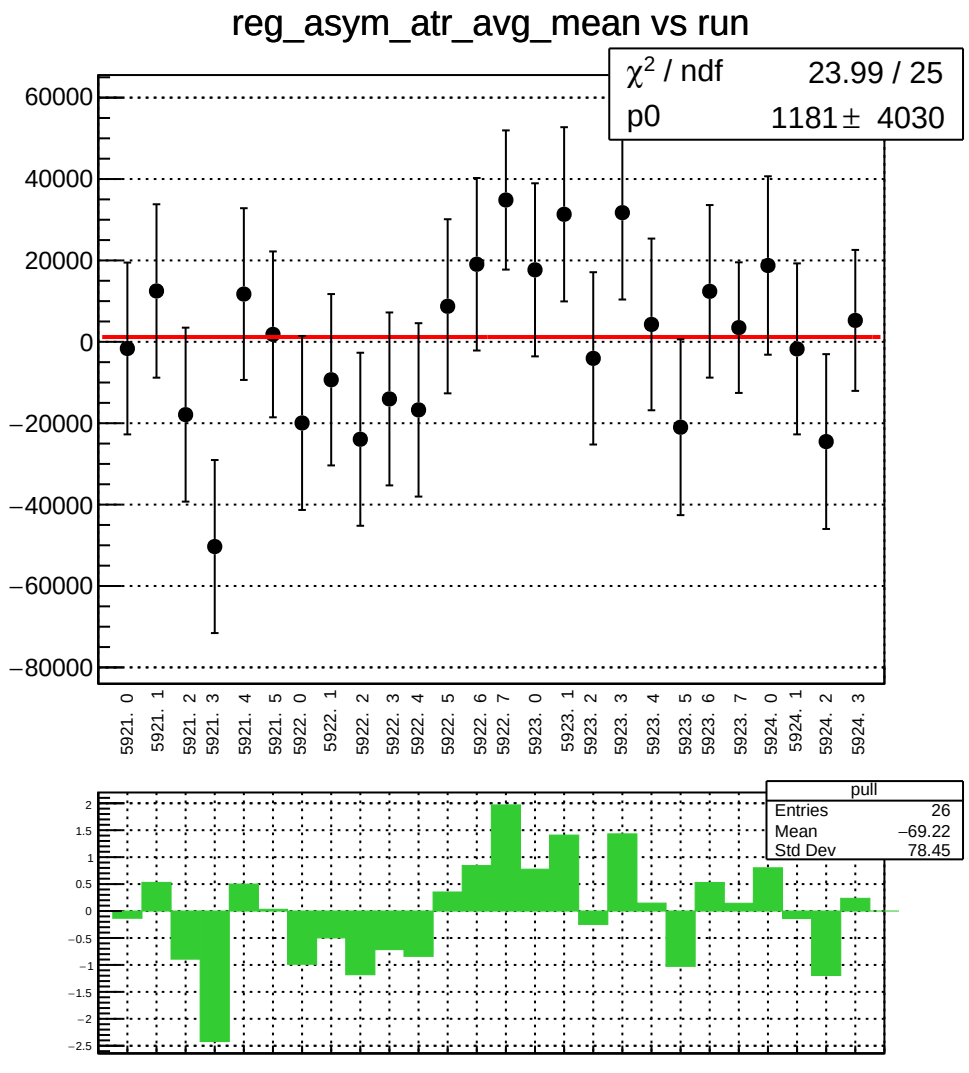

pull1D
Entries 26
Mean −0.01207
Std Dev 0.7822
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

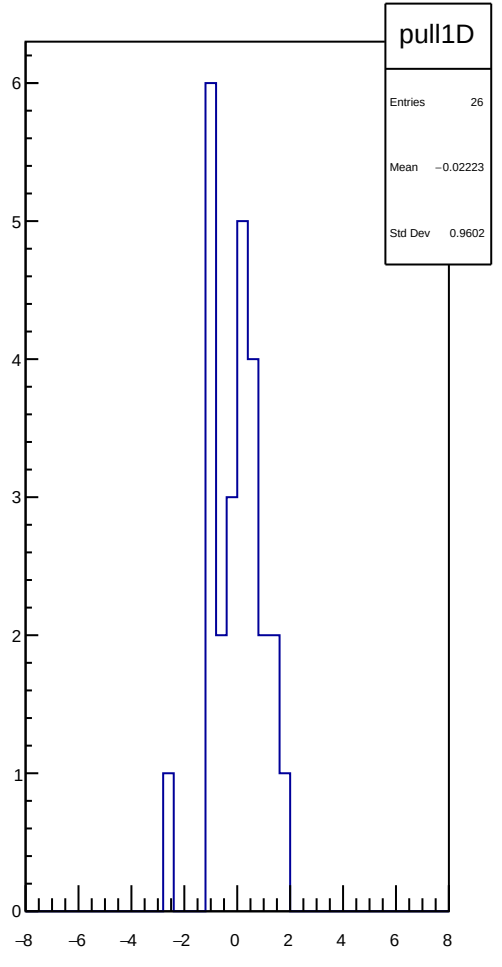

asym_atl_dd_correction_rms vs run
χ² / ndf 1791 / 25
p0 2436 ± 3.445
2800
2700
2600
2500
2400
2300
2200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

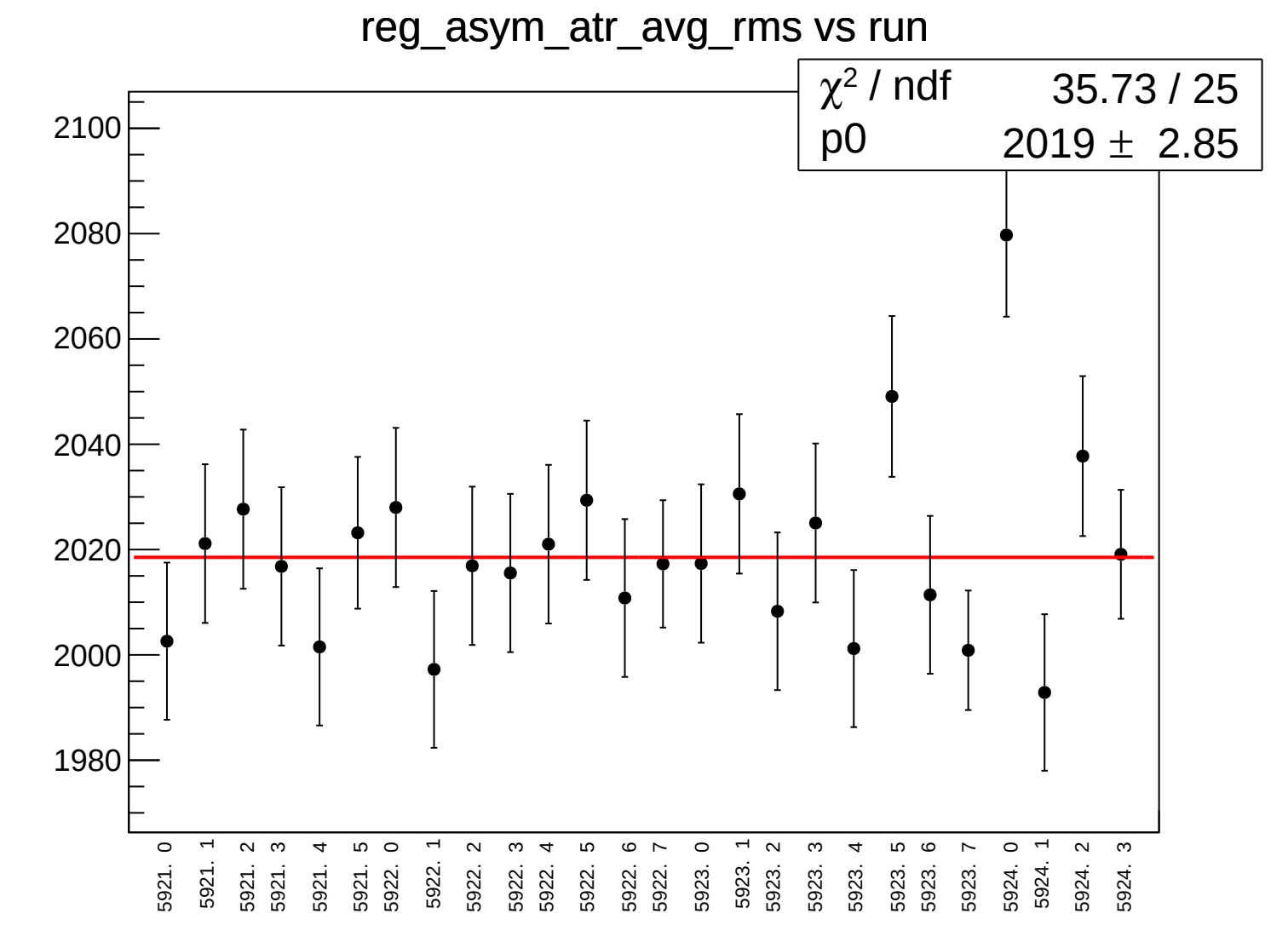

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 16.76 / 25
p0 4655 ± 5880
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −51.16
Std Dev 66.41
1.5
1
0.5
0
−0.5
−1
−1.5

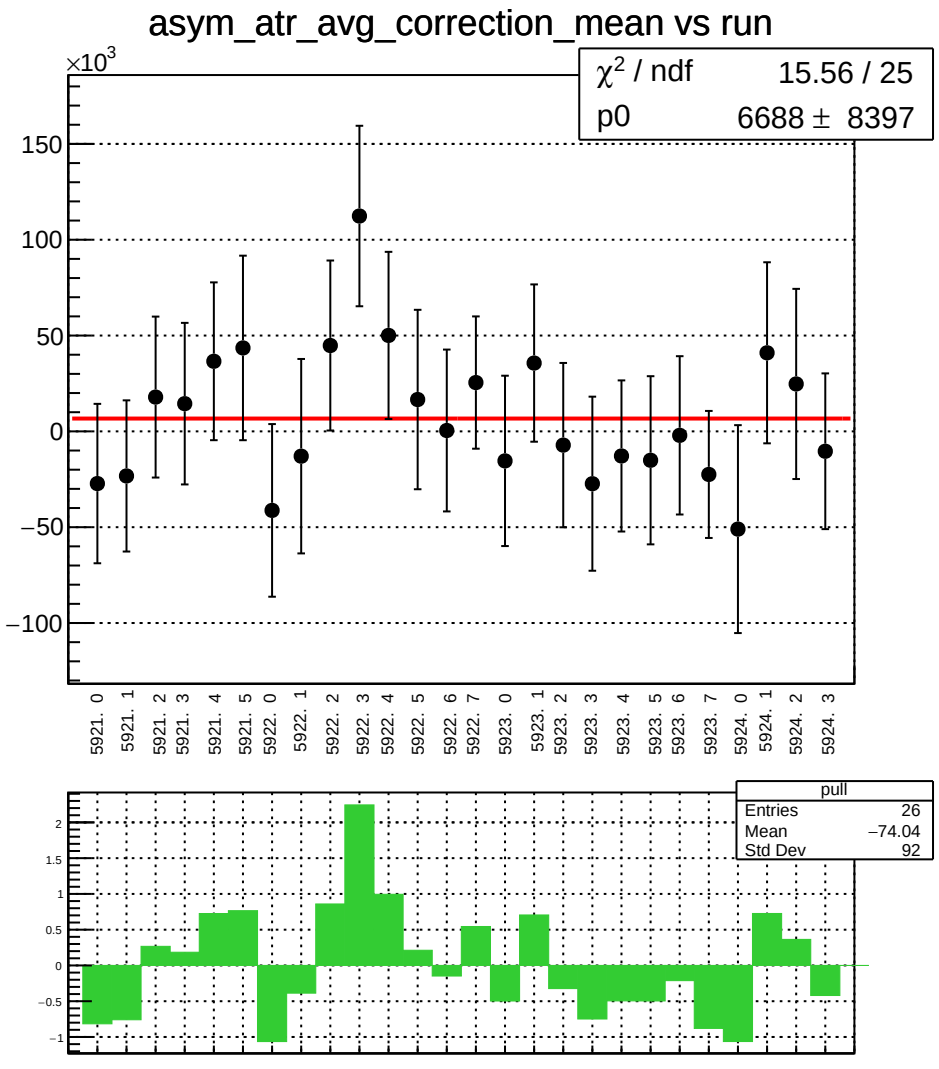

pull1D
Entries 26
Mean 0.01927
Std Dev 0.8026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

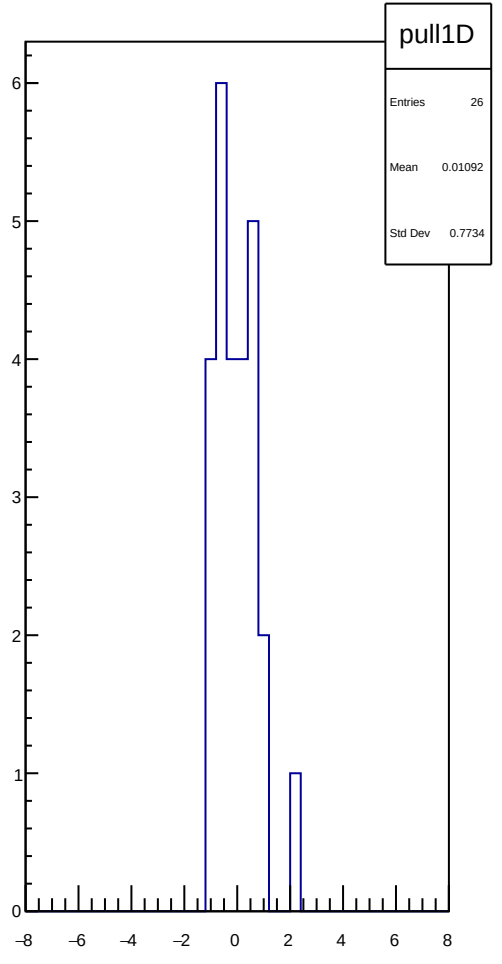

asym_atl_dd_rms vs run
$\chi^2$ / ndf 916.3 / 25
p0 2943 ± 4.158
3200
3100
3000
2900
2800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

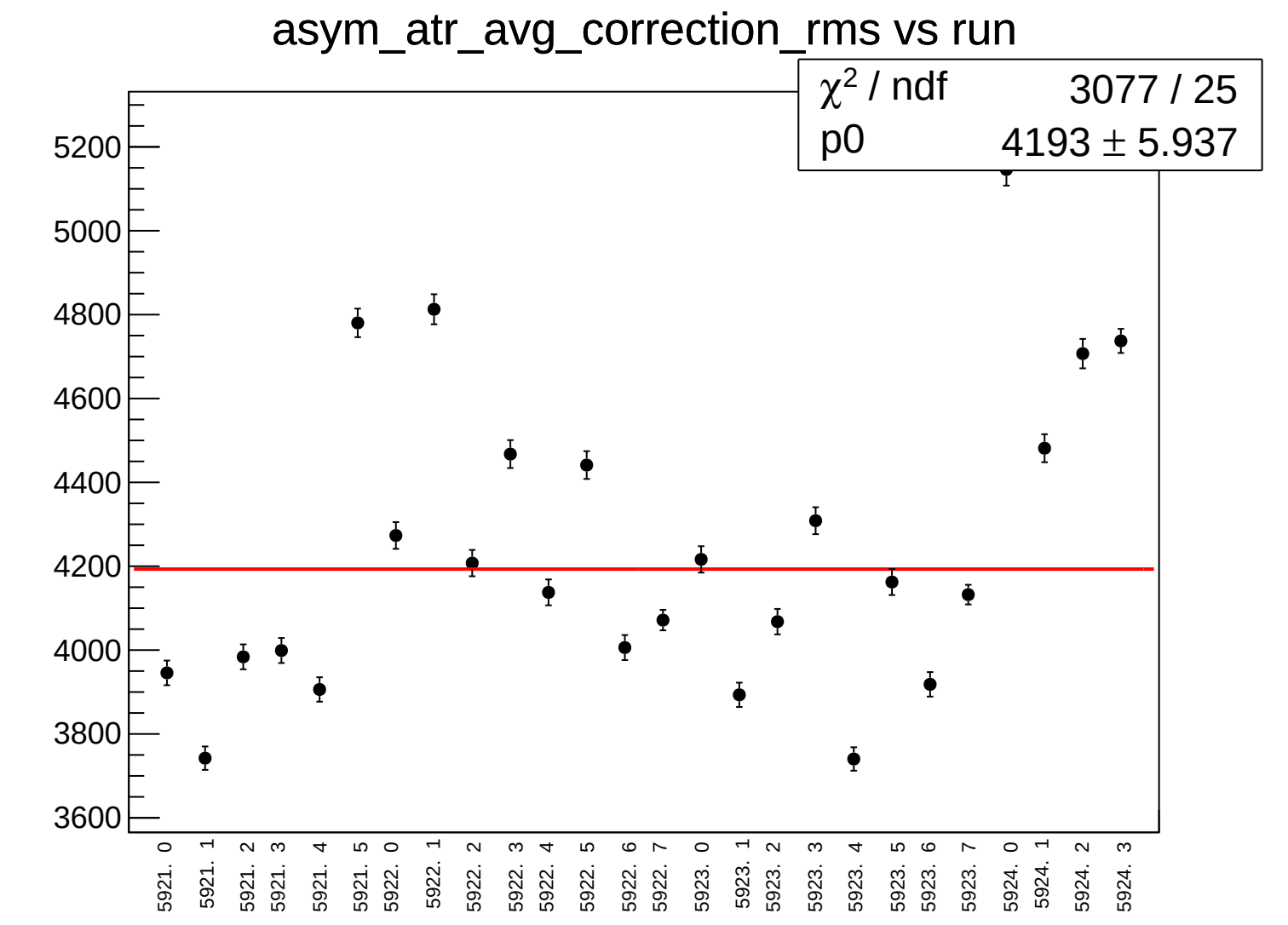

reg_asym_atr_avg_mean vs run
χ² / ndf 23.99 / 25
p0 1181 ± 4030
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −69.22
Std Dev 78.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

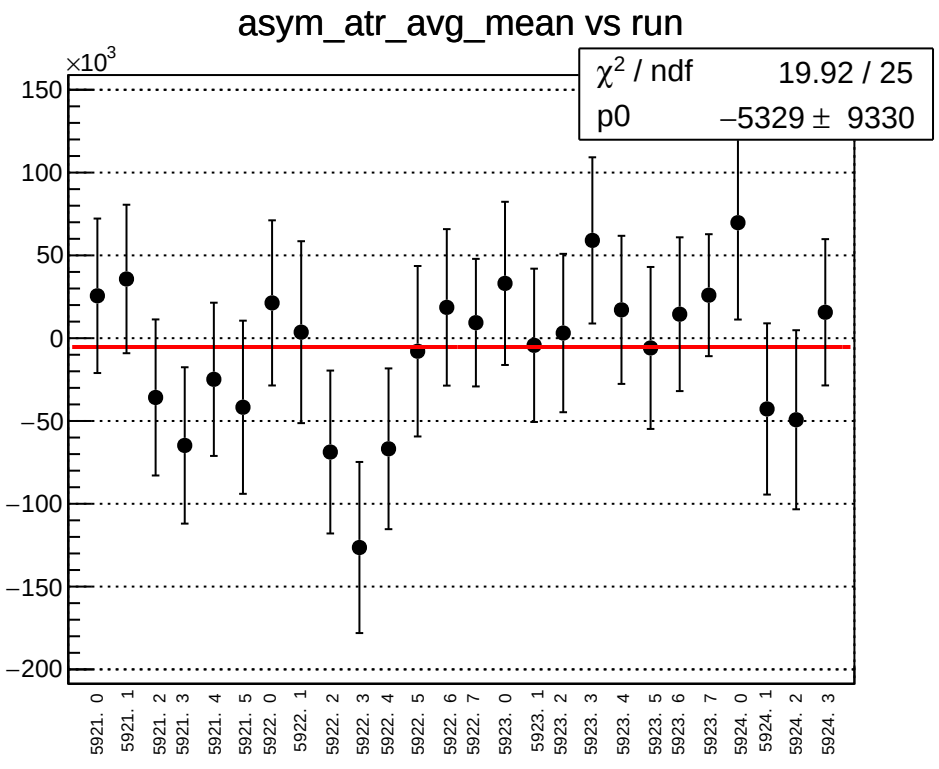

pull1D
Entries 26
Mean −0.02223
Std Dev 0.9602
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

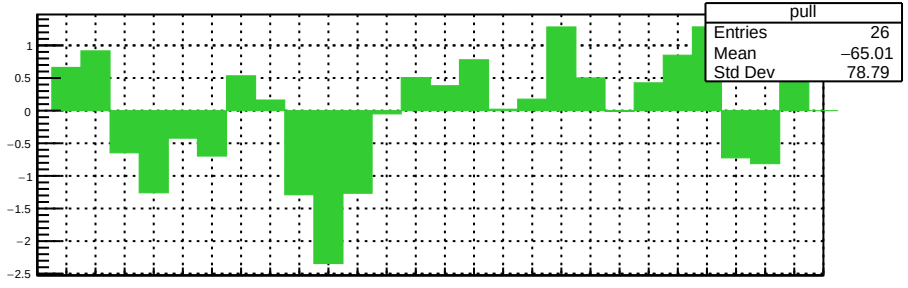

reg_asym_atr_avg_rms vs run
χ² / ndf 35.73 / 25
p0 2019 ± 2.85
2100
2080
2060
2040
2020
2000
1980
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

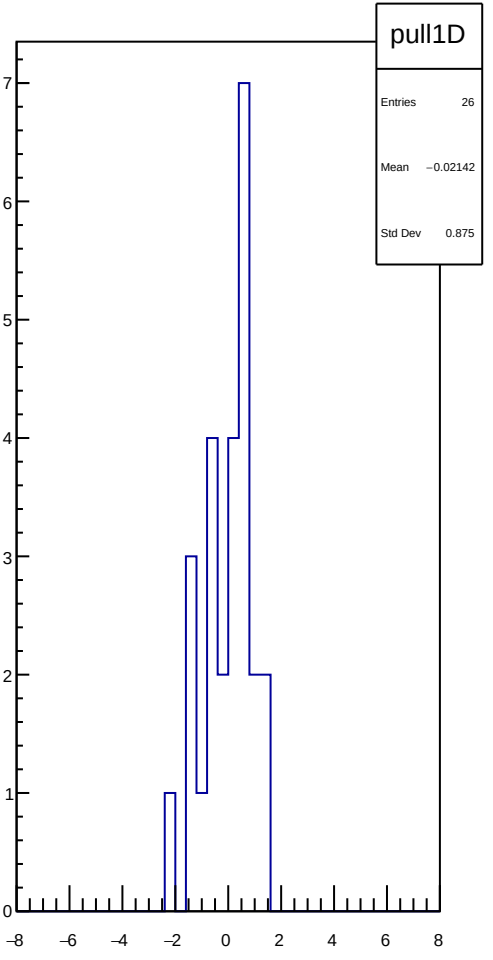

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 15.56 / 25
p0 6688 ± 8397
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −74.04
Std Dev 92
2
1.5
1
0.5
0
−0.5
−1

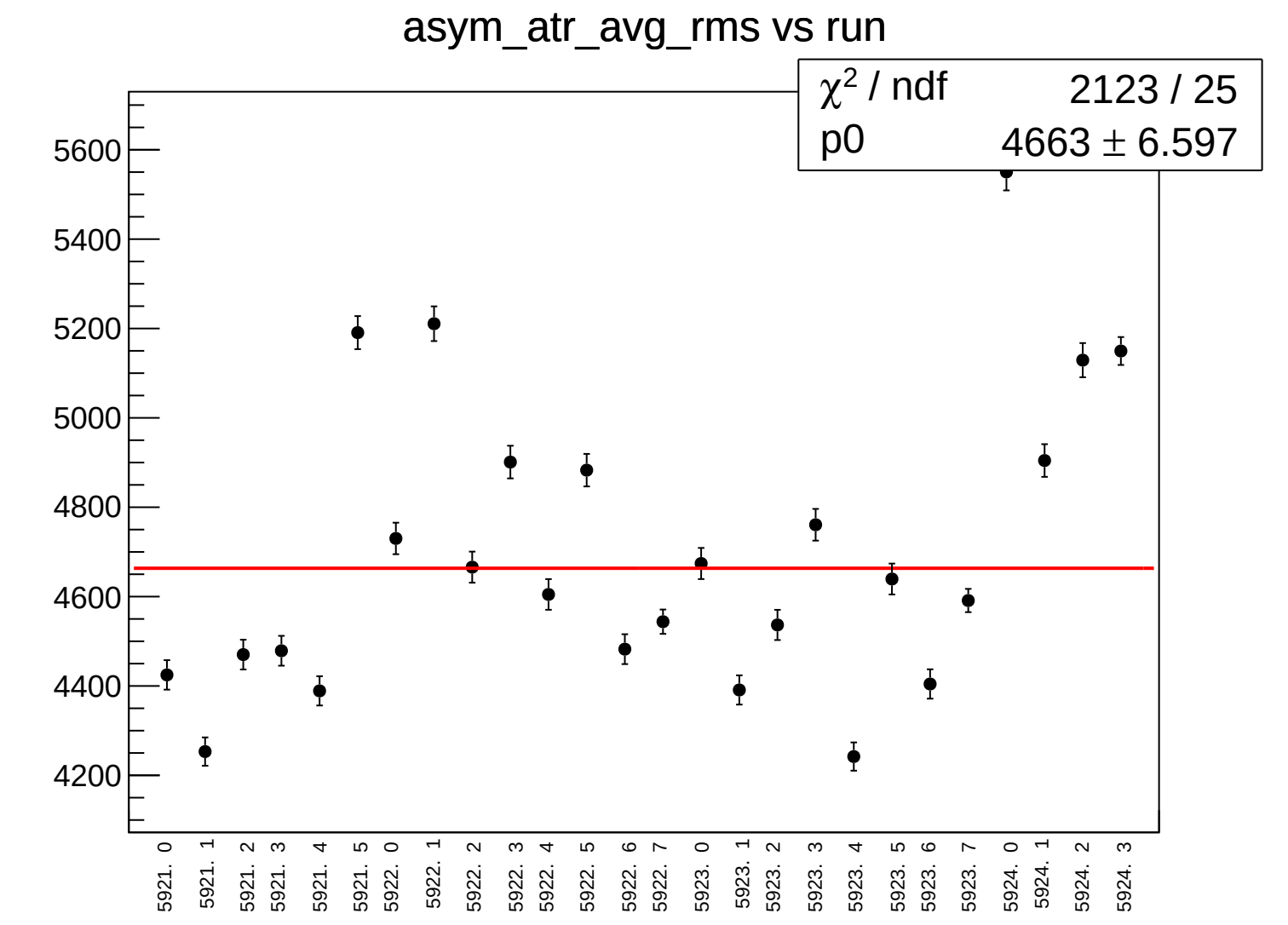

pull1D
Entries 26
Mean 0.01092
Std Dev 0.7734
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

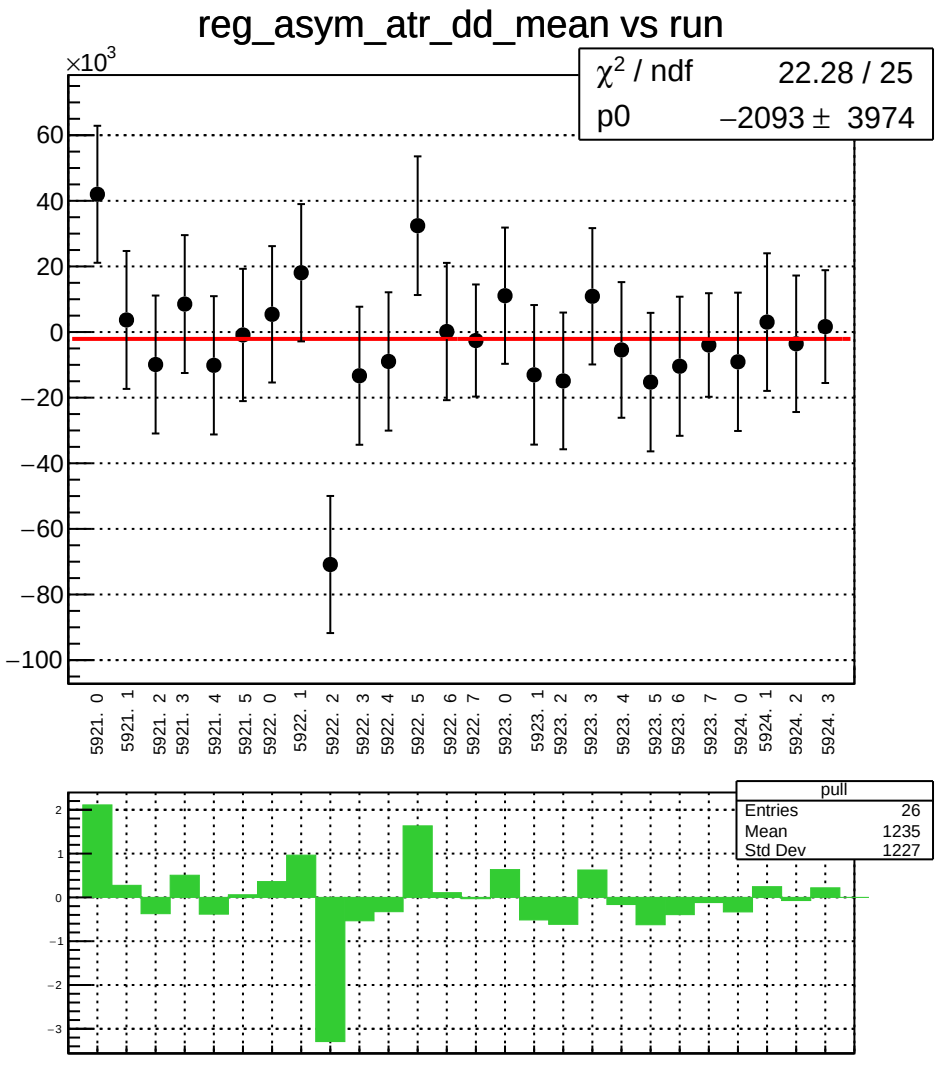

asym_atr_avg_correction_rms vs run
χ² / ndf 3077 / 25
p0 4193 ± 5.937
5200
5000
4800
4600
4400
4200
4000
3800
3600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

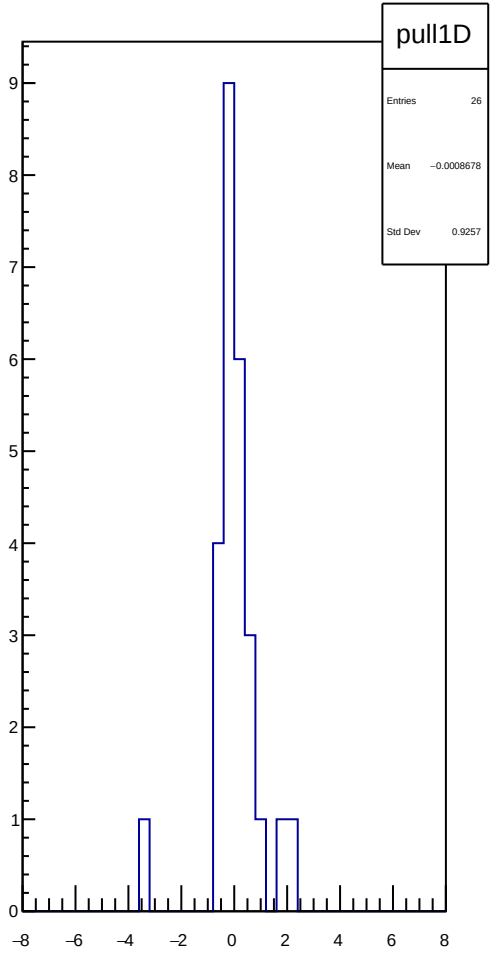

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 19.92 / 25
p0 −5329 ± 9330
150
100
50
0
−50
−100
−150
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

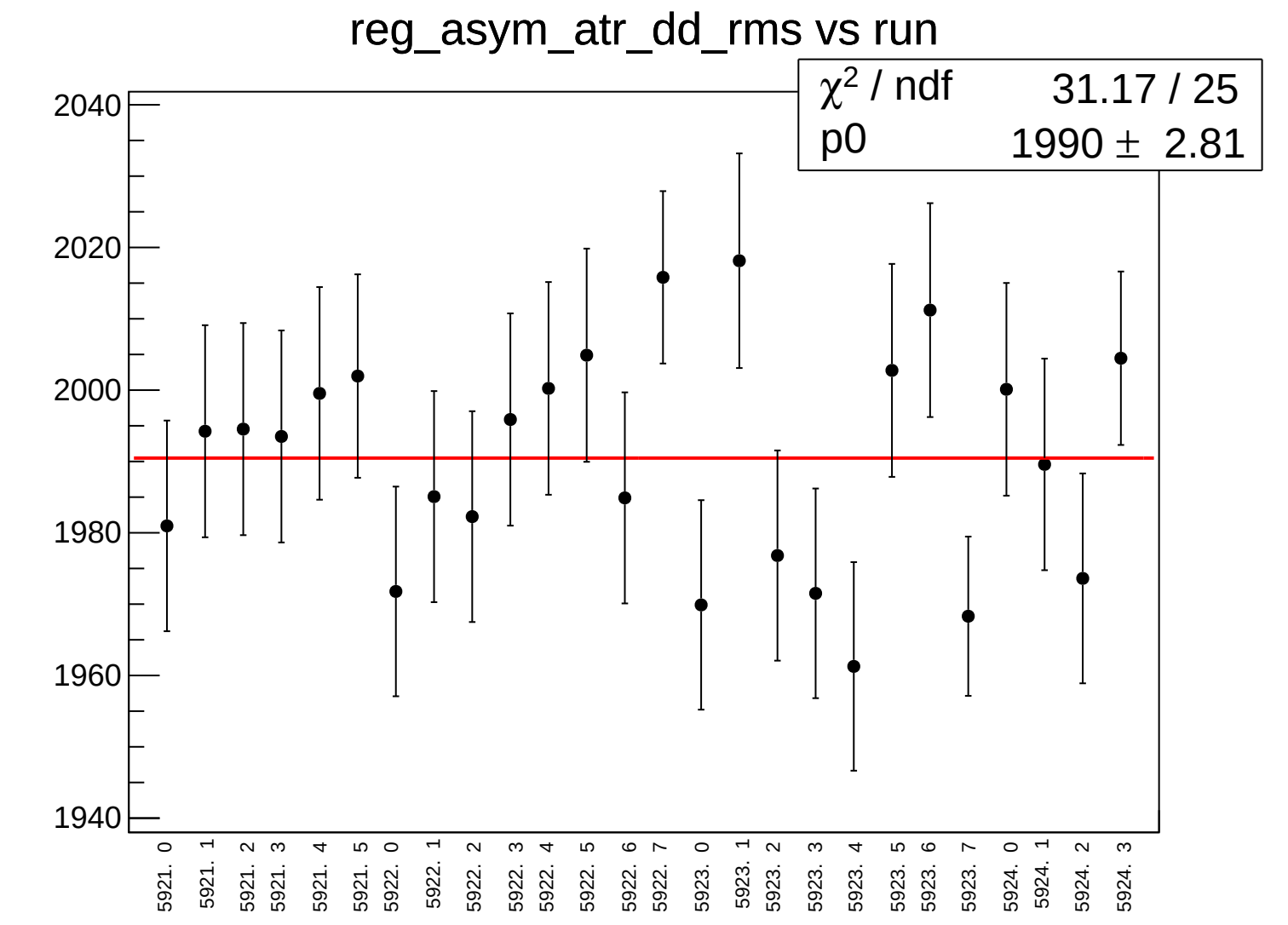

pull
Entries 26
Mean −65.01
Std Dev 78.79
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

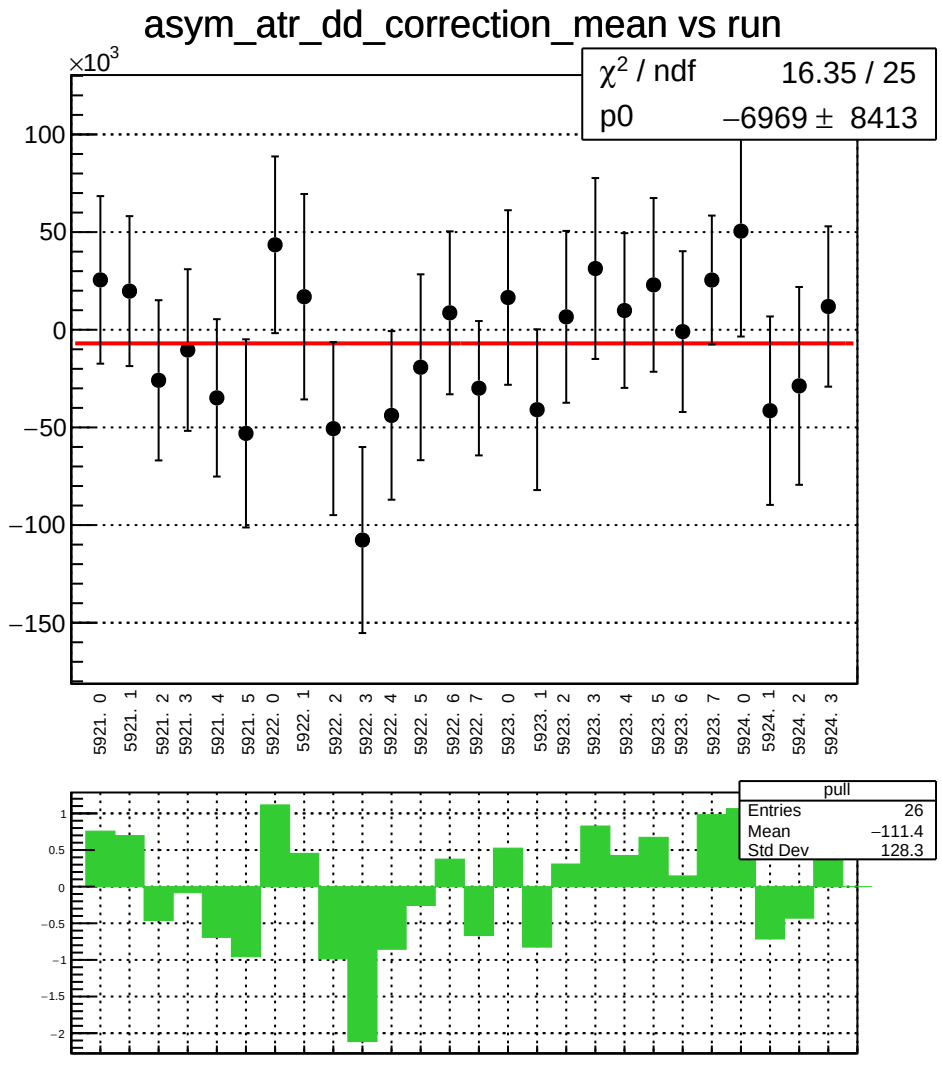

pull1D
Entries 26
Mean −0.02142
Std Dev 0.875
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

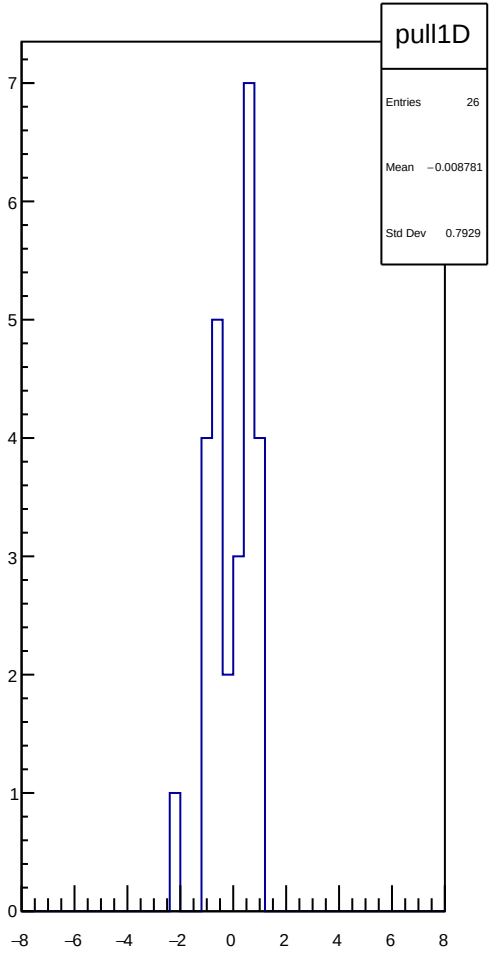

asym_atr_avg_rms vs run
χ² / ndf 2123 / 25
p0 4663 ± 6.597
5600
5400
5200
5000
4800
4600
4400
4200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

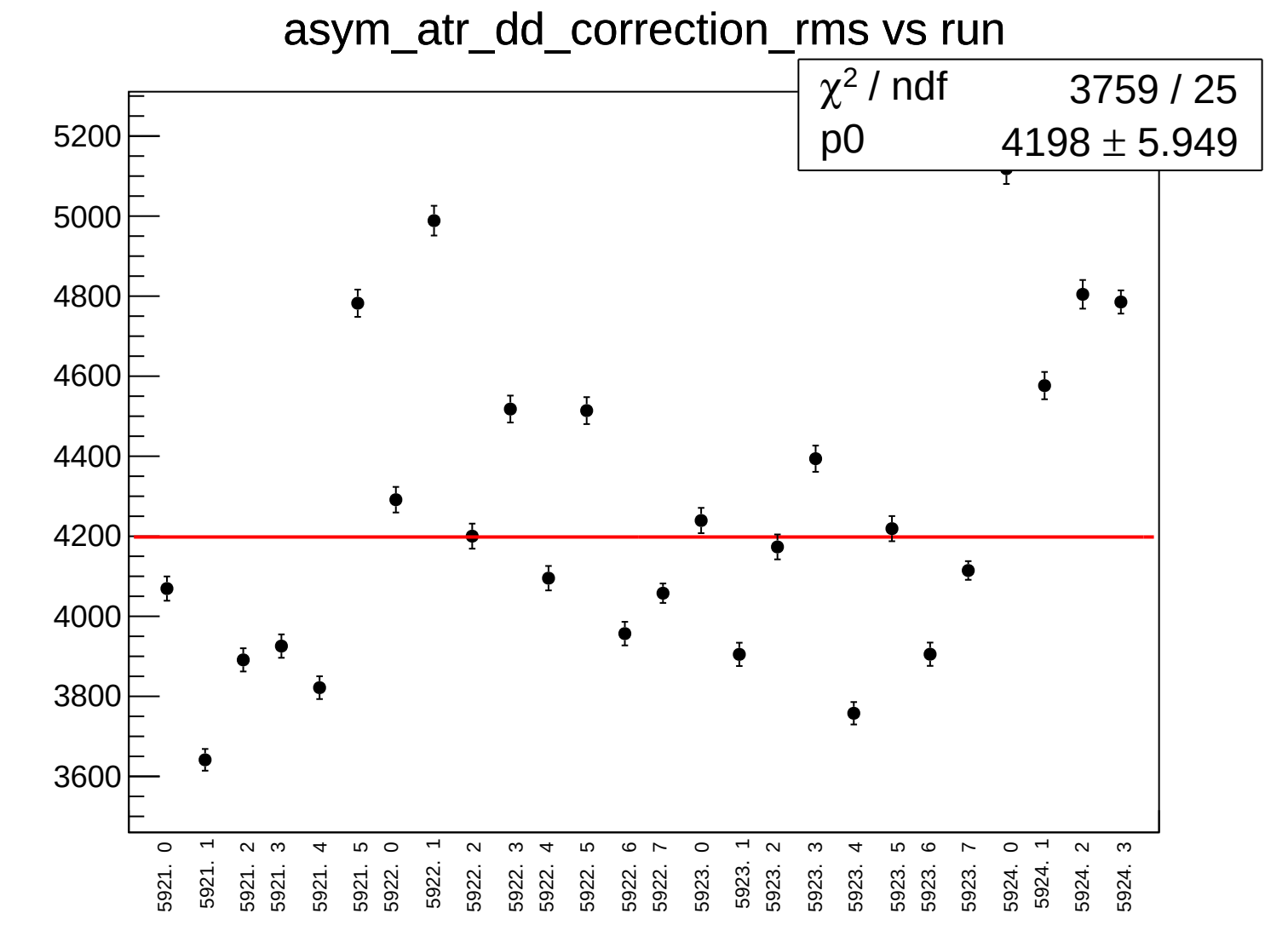

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 22.28 / 25
p0 −2093 ± 3974
60
40
20
0
−20
−40
−60
−80
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1235
Std Dev 1227
2
1
0
−1
−2
−3

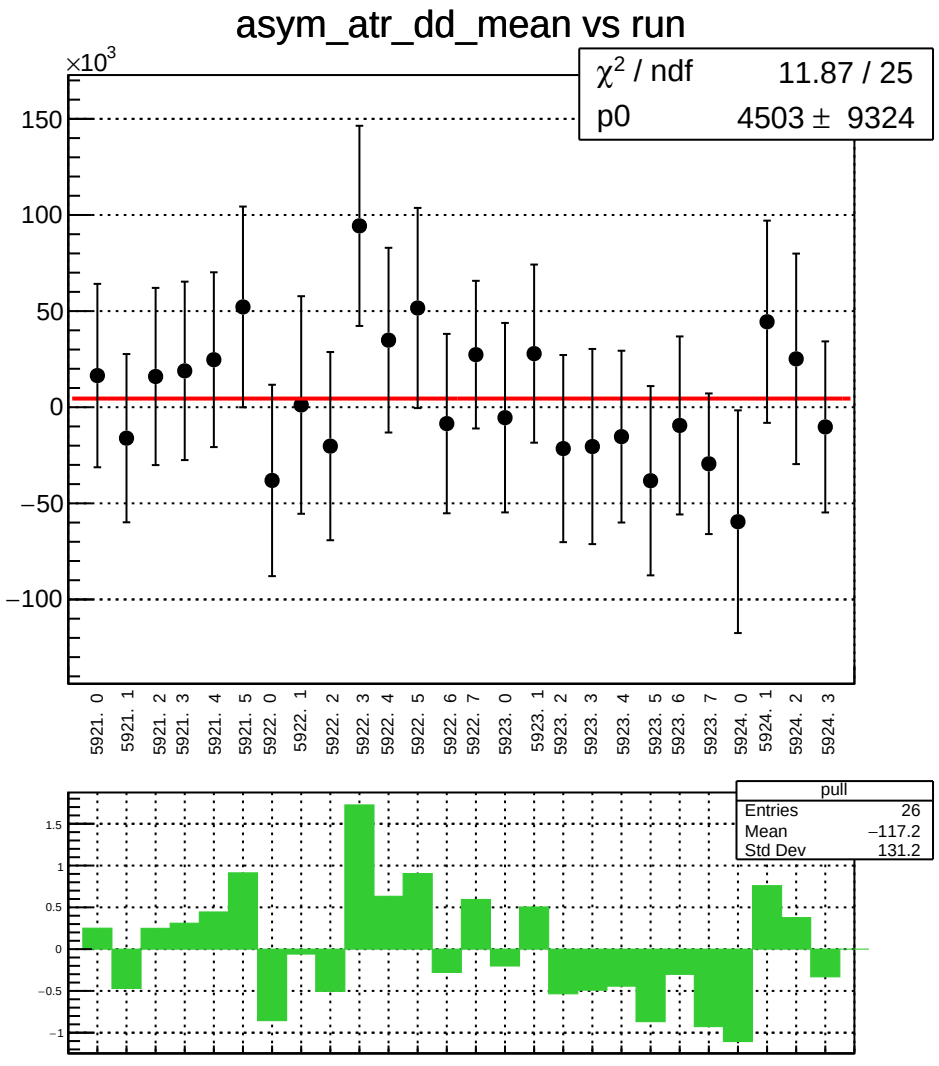

pull1D
Entries 26
Mean −0.0008678
Std Dev 0.9257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

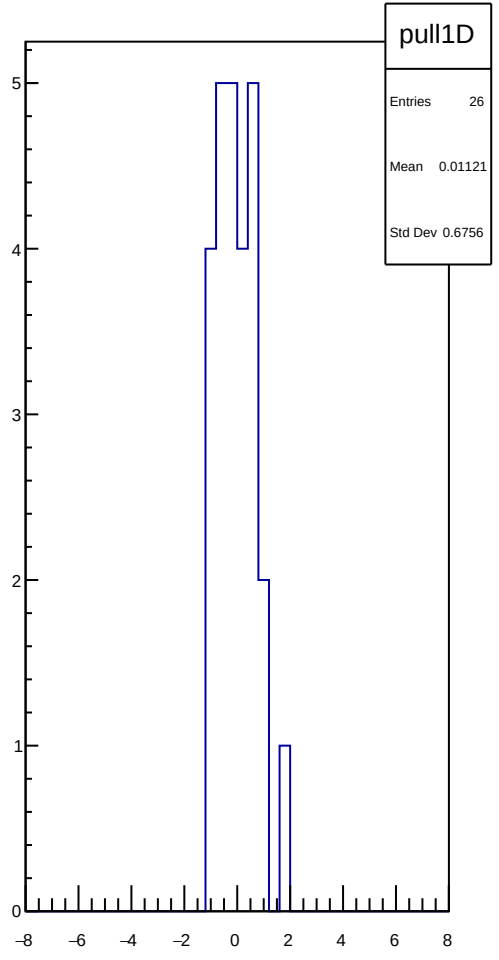

reg_asym_atr_dd_rms vs run
χ² / ndf 31.17 / 25
p0 1990 ± 2.81
2040
2020
2000
1980
1960
1940
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

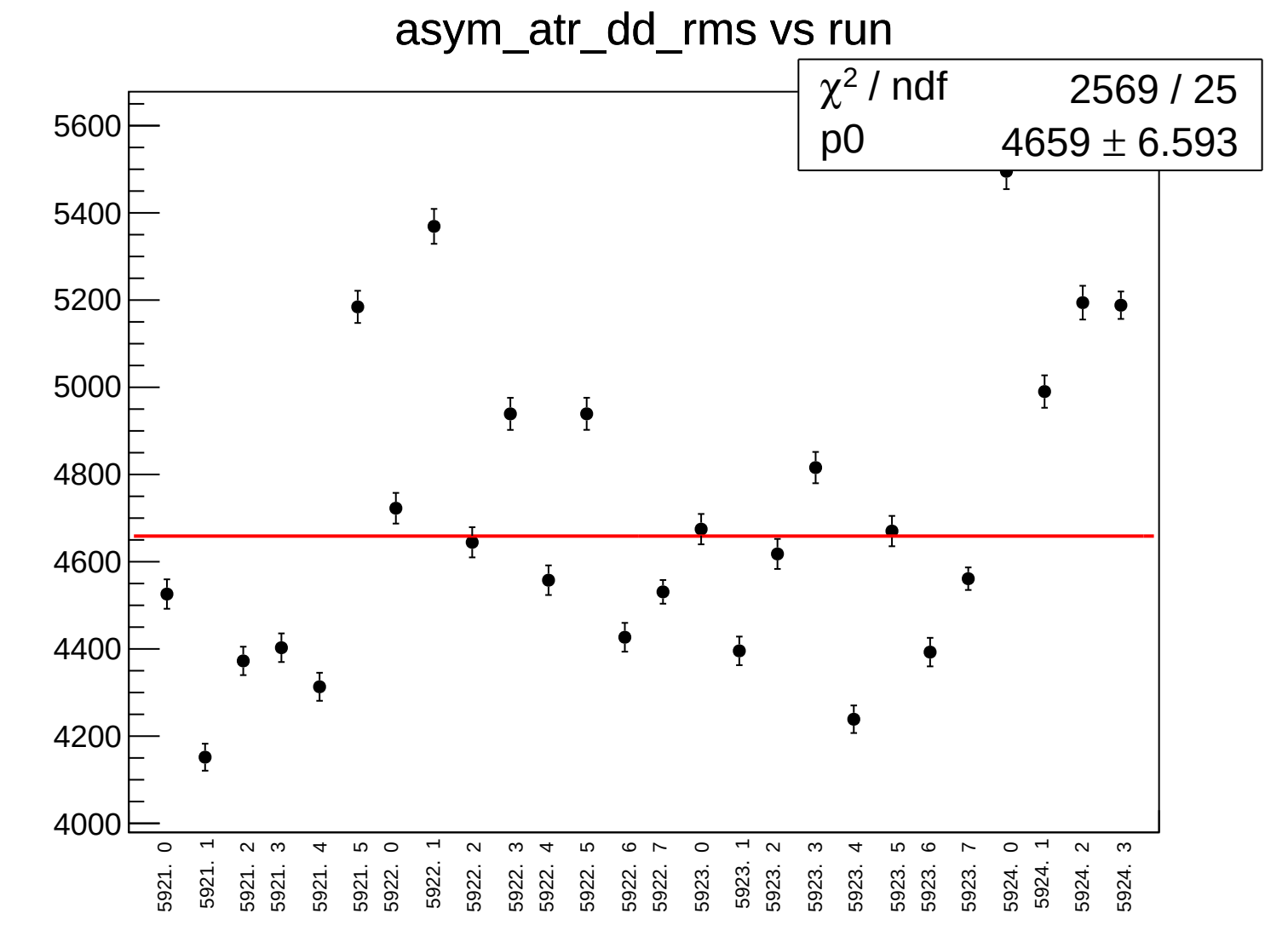

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 16.35 / 25
p0 −6969 ± 8413
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −111.4
Std Dev 128.3
1
0.5
0
−0.5
−1
−1.5
−2

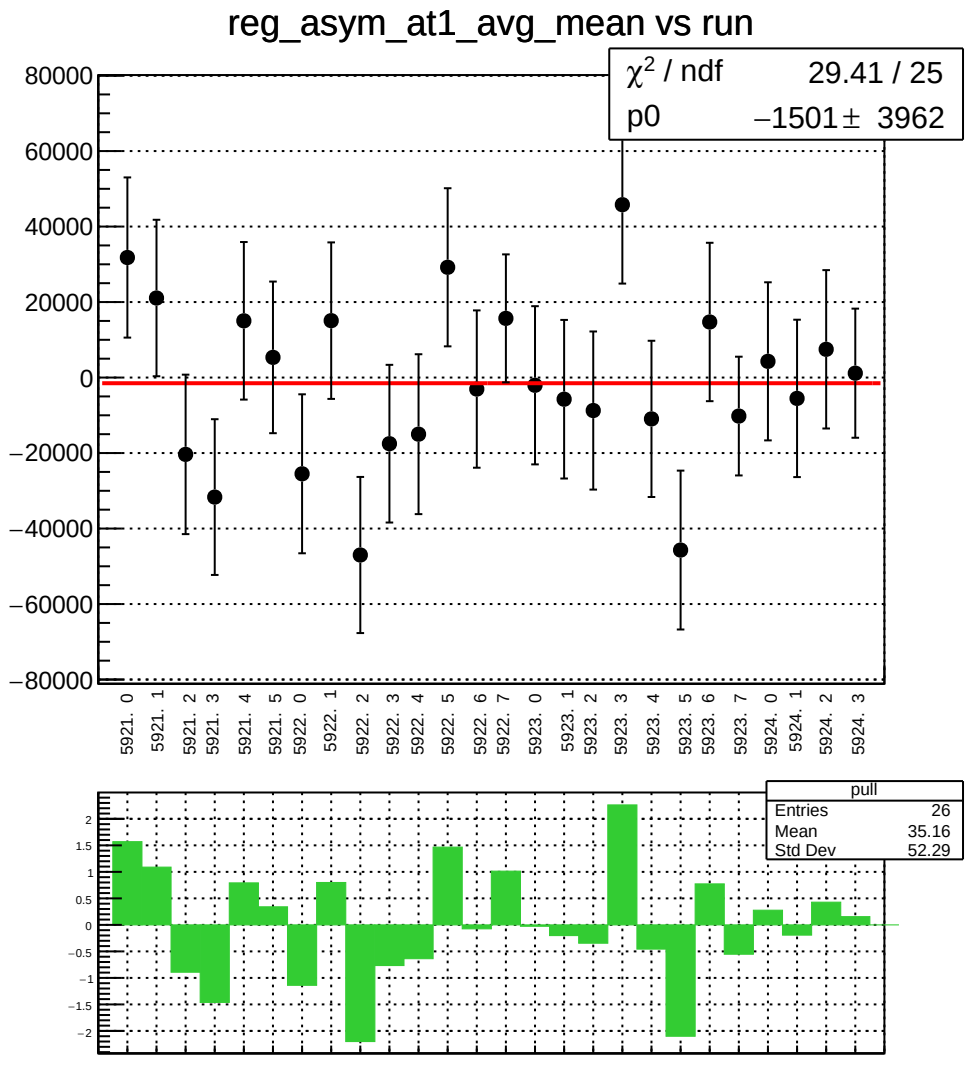

pull1D
Entries 26
Mean −0.008781
Std Dev 0.7929
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

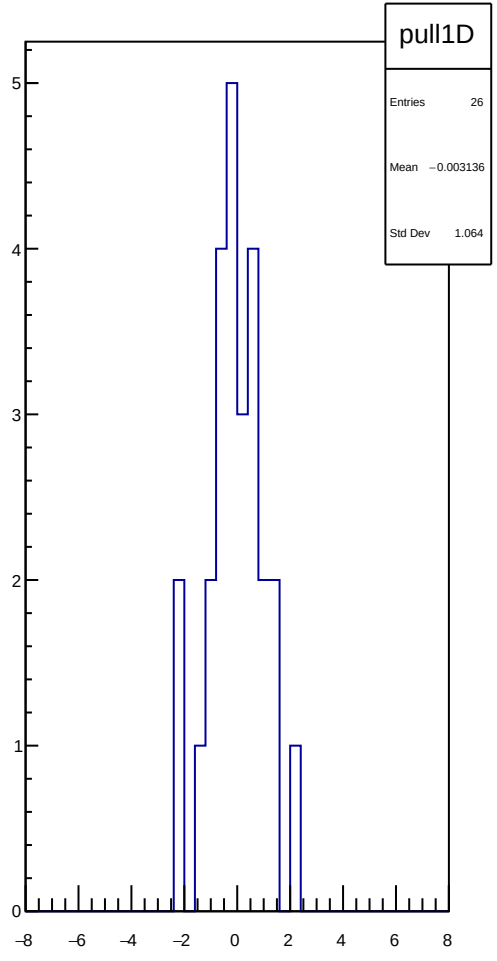

asym_atr_dd_correction_rms vs run
χ² / ndf 3759 / 25
p0 4198 ± 5.949
5200
5000
4800
4600
4400
4200
4000
3800
3600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

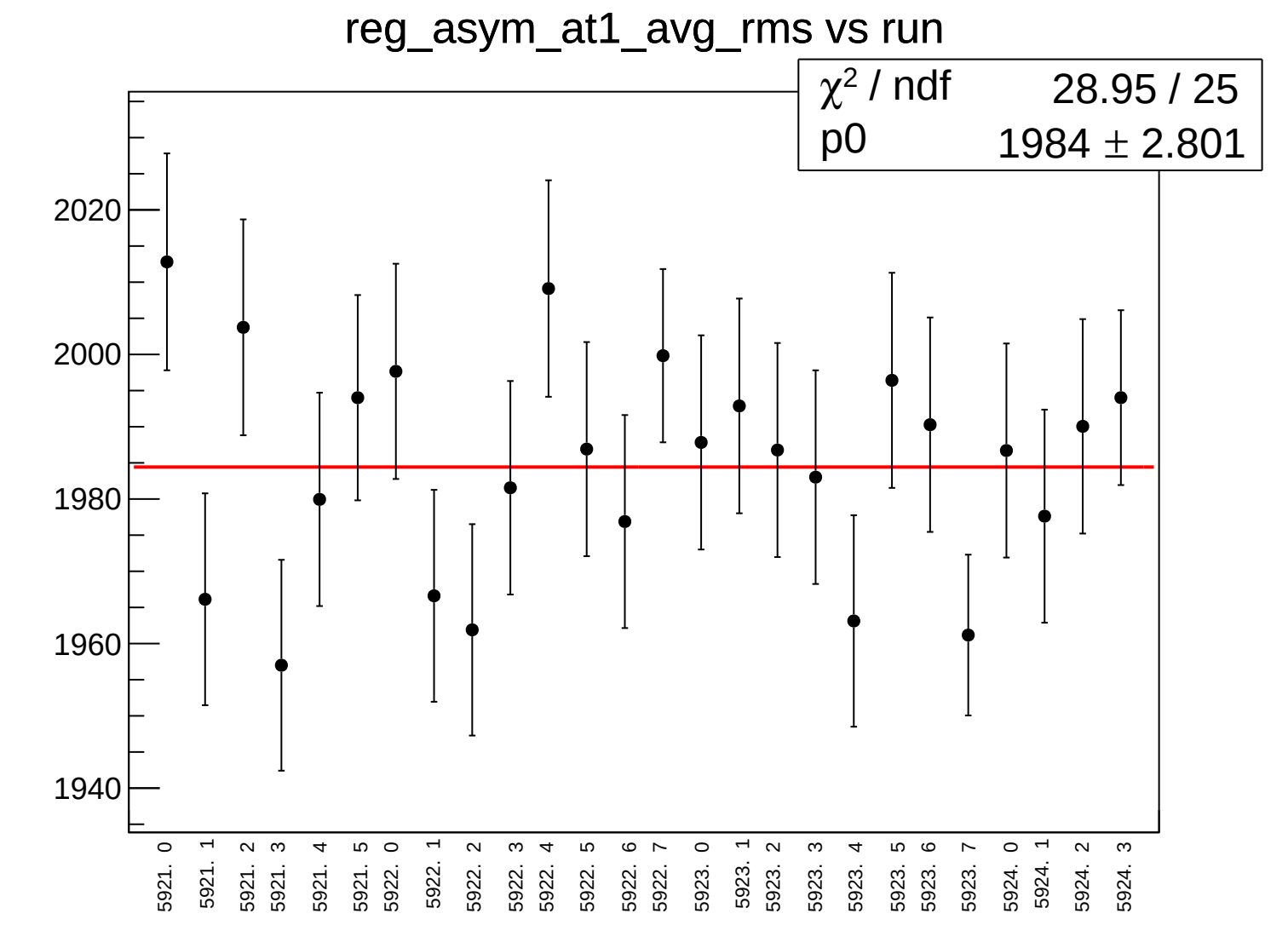

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 11.87 / 25
p0 4503 ± 9324
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −117.2
Std Dev 131.2
1.5
1
0.5
0
−0.5
−1

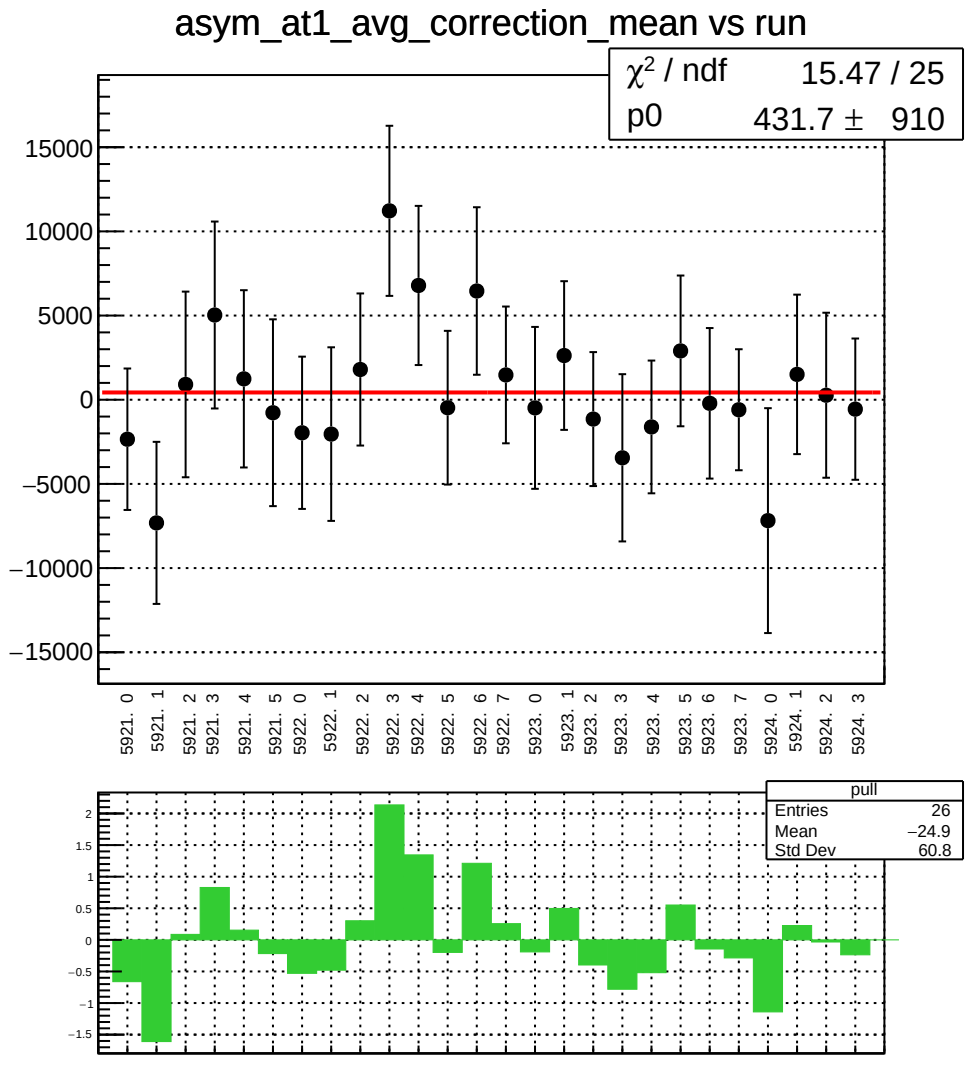

pull1D
Entries 26
Mean 0.01121
Std Dev 0.6756
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

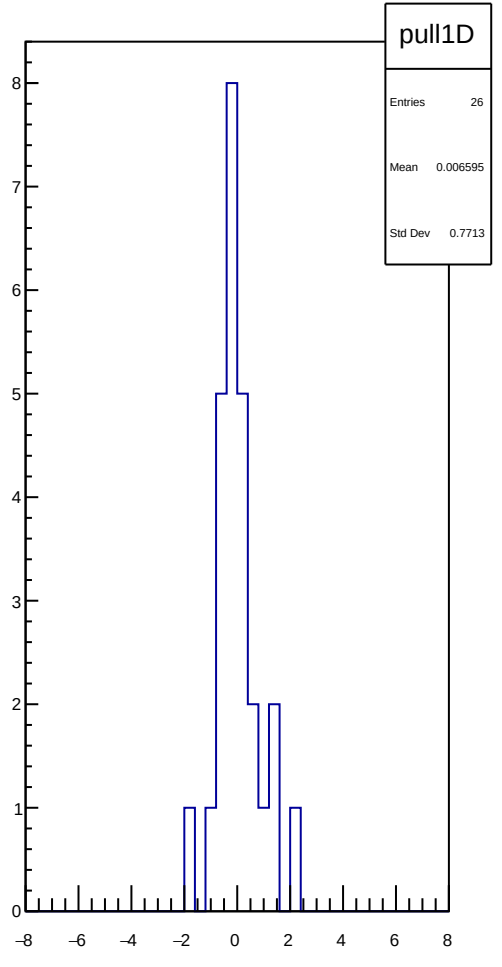

asym_atr_dd_rms vs run
χ² / ndf 2569 / 25
p0 4659 ± 6.593
5600
5400
5200
5000
4800
4600
4400
4200
4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

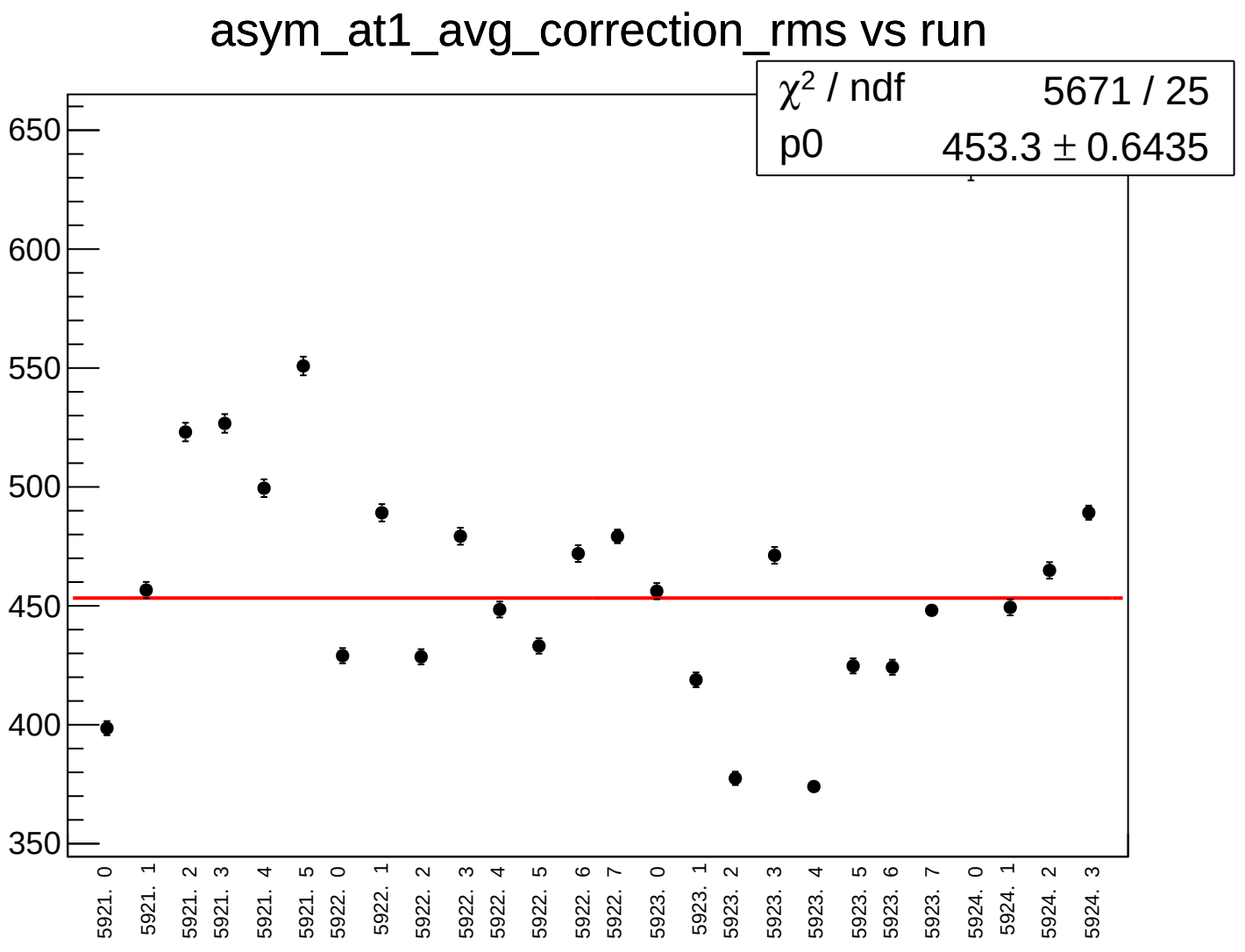

reg_asym_at1_avg_mean vs run
χ² / ndf 29.41 / 25
p0 −1501 ± 3962
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 35.16
Std Dev 52.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

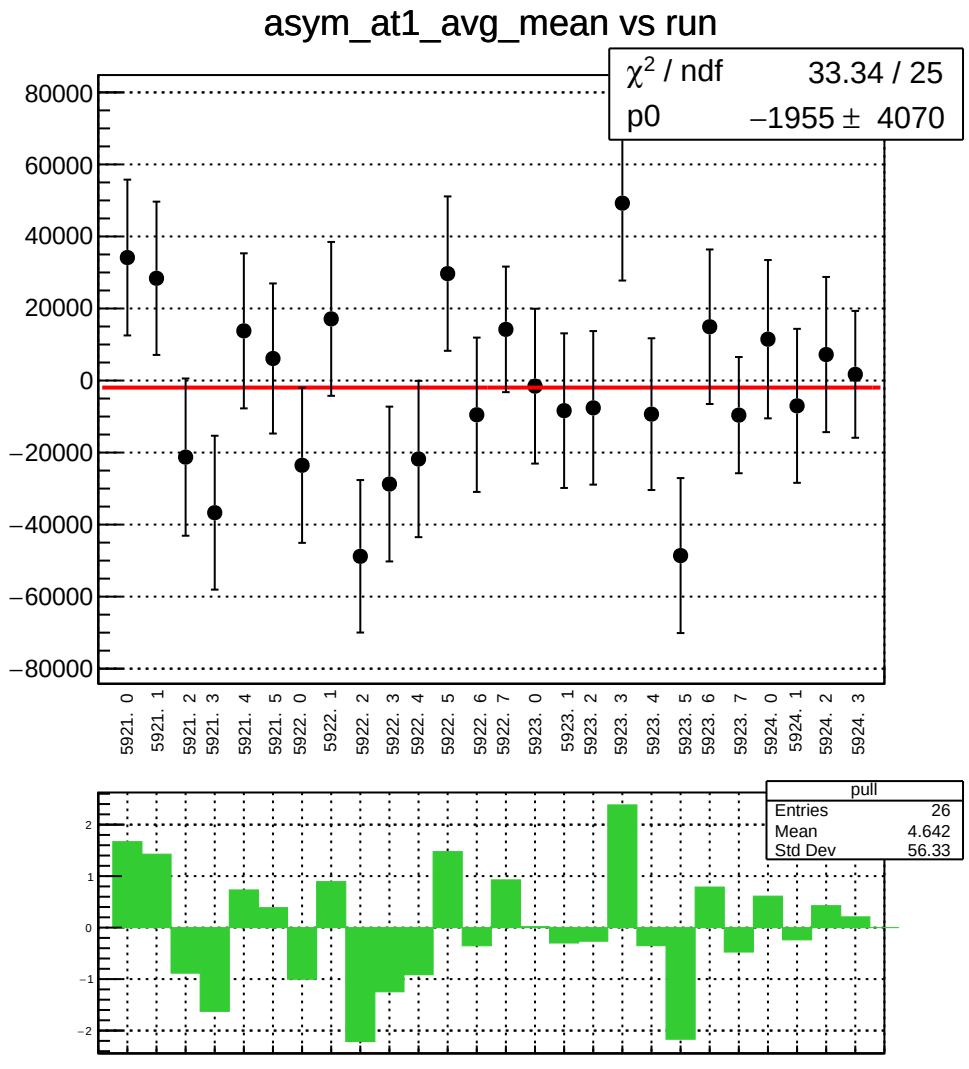

pull1D
Entries 26
Mean −0.003136
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

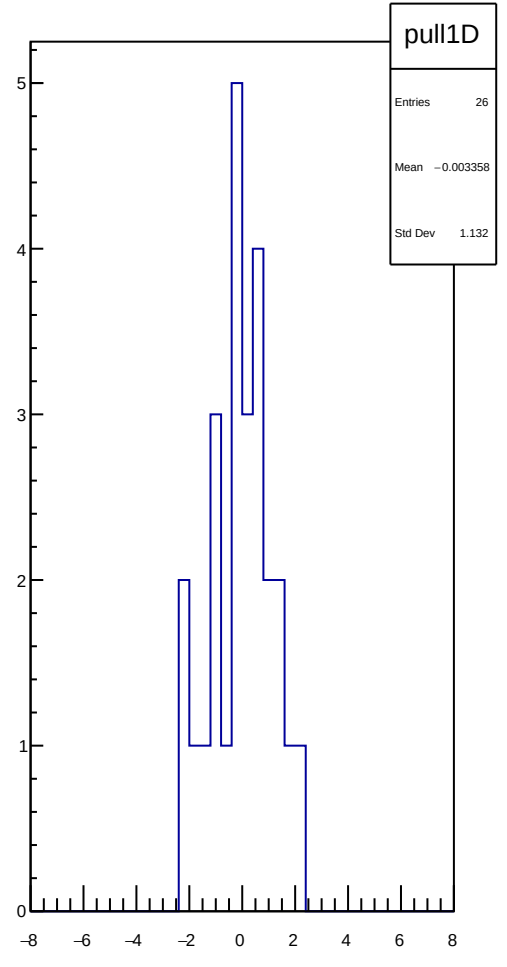

reg_asym_at1_avg_rms vs run
χ² / ndf 28.95 / 25
p0 1984 ± 2.801
2020
2000
1980
1960
1940
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

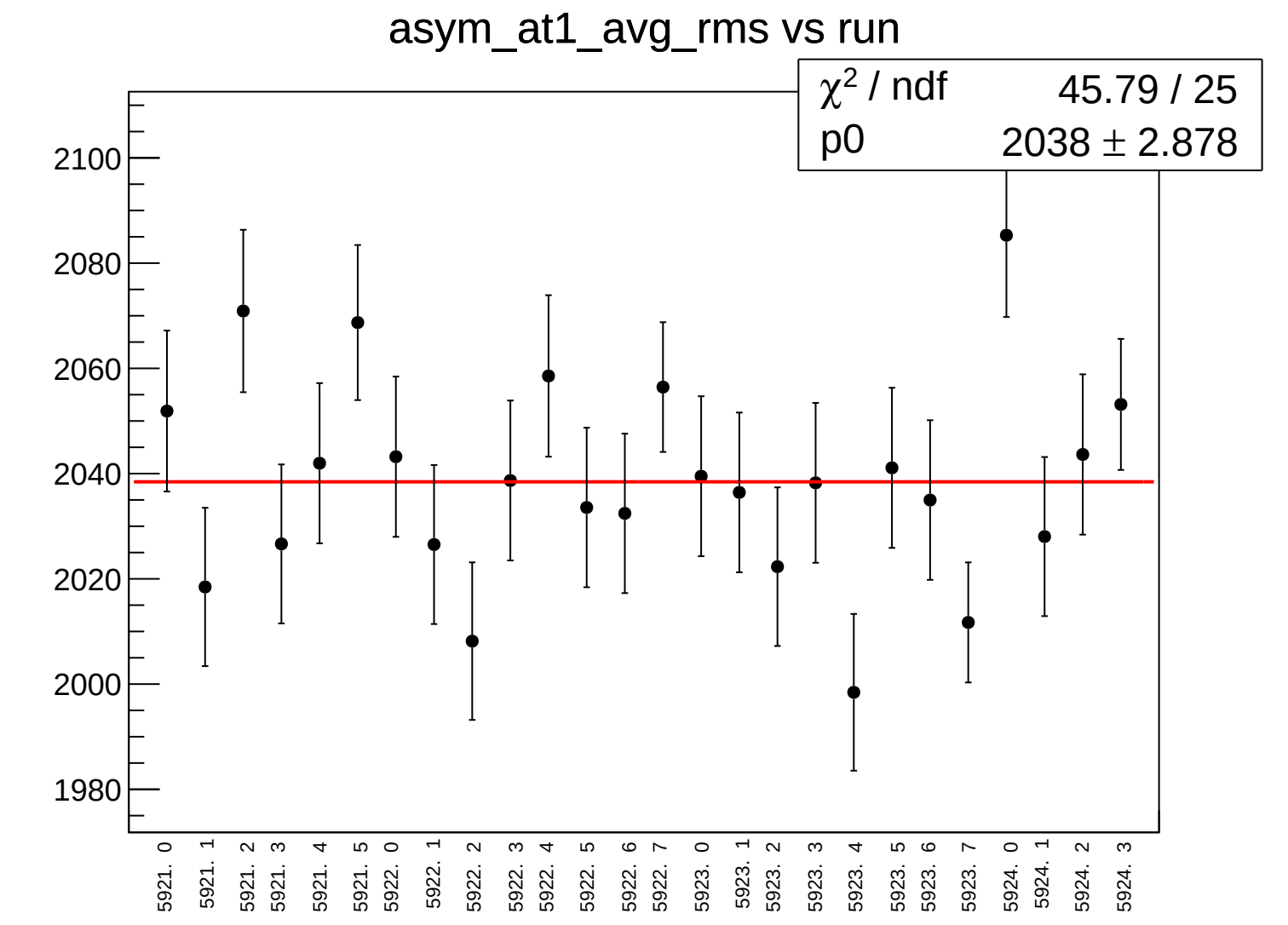

asym_at1_avg_correction_mean vs run
χ² / ndf 15.47 / 25
p0 431.7 ± 910
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −24.9
Std Dev 60.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

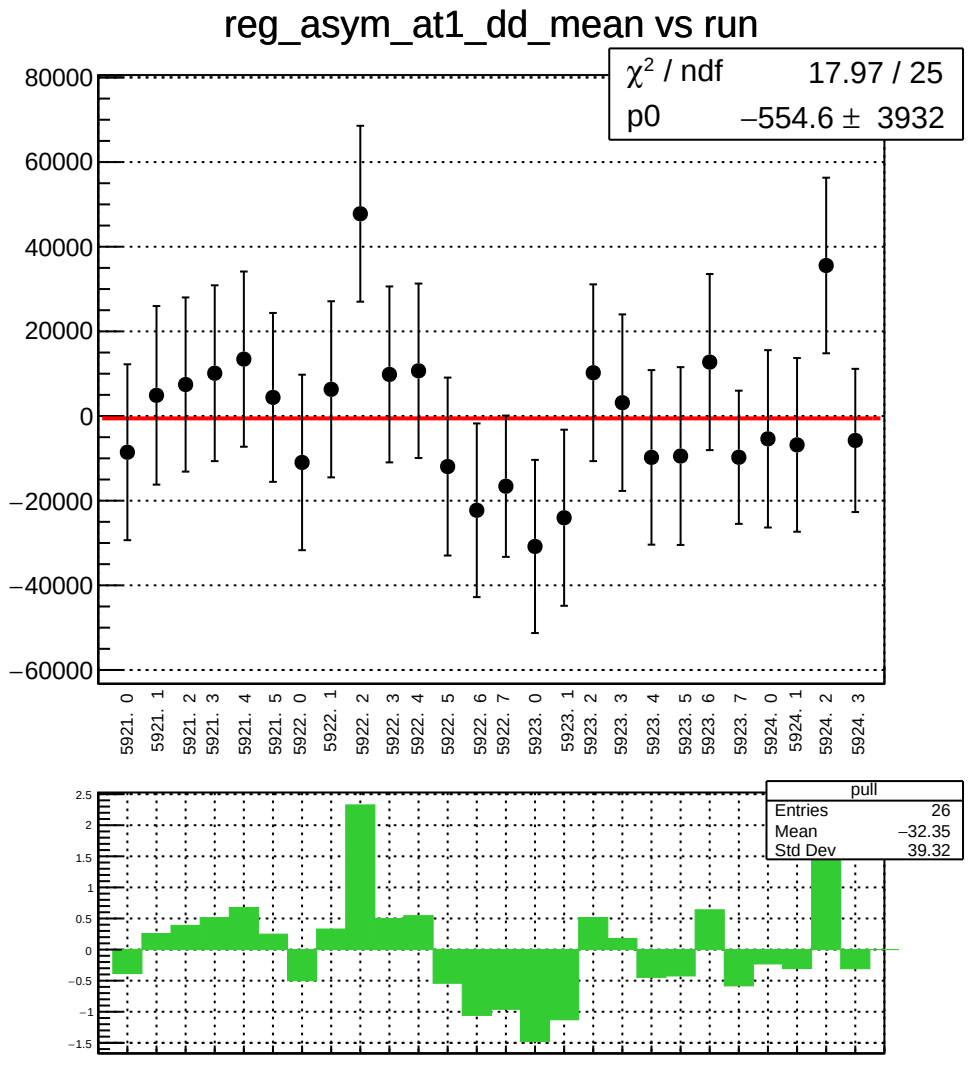

pull1D
Entries 26
Mean 0.006595
Std Dev 0.7713
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

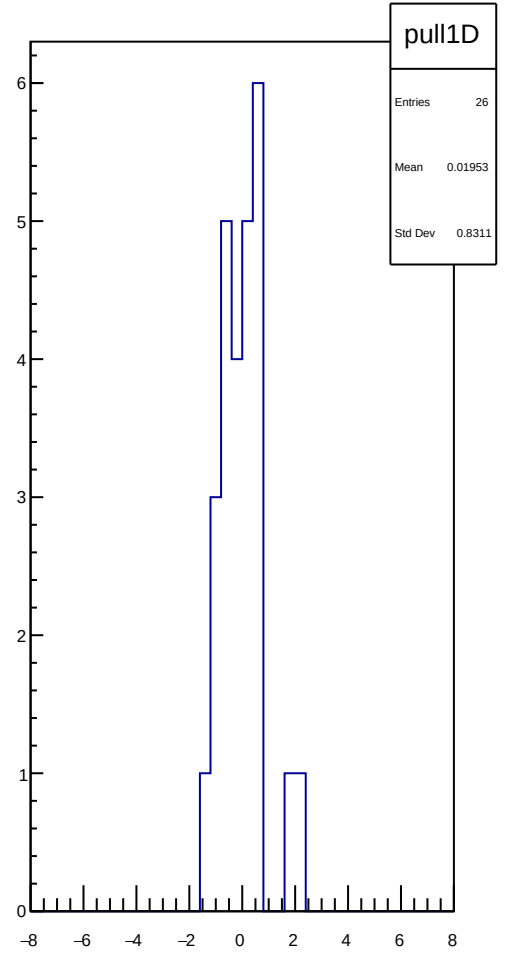

asym_at1_avg_correction_rms vs run
χ² / ndf 5671 / 25
p0 453.3 ± 0.6435
650
600
550
500
450
400
350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

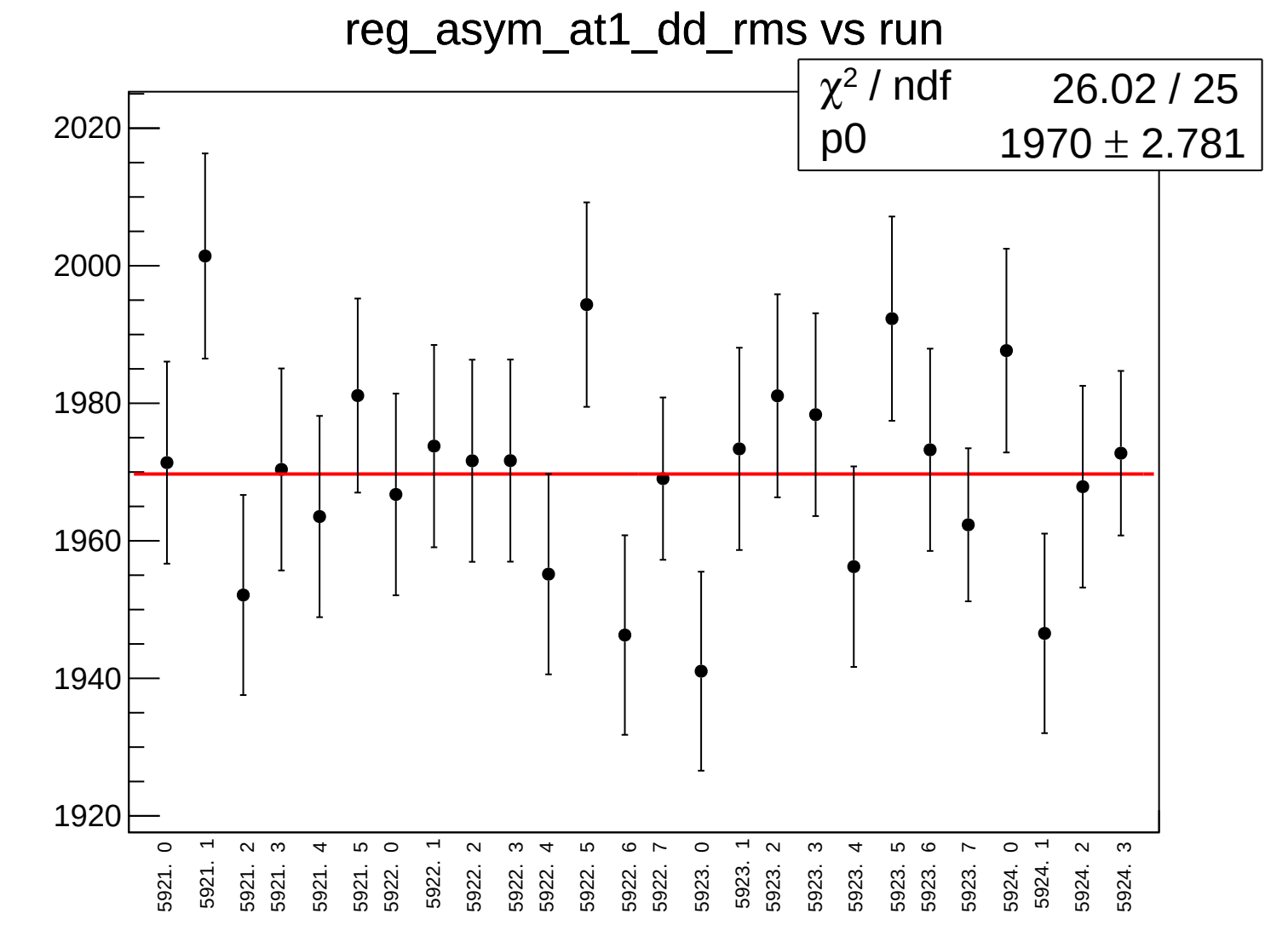

asym_at1_avg_mean vs run
χ² / ndf 33.34 / 25
p0 −1955 ± 4070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4.642
Std Dev 56.33
2
1
0
−1
−2

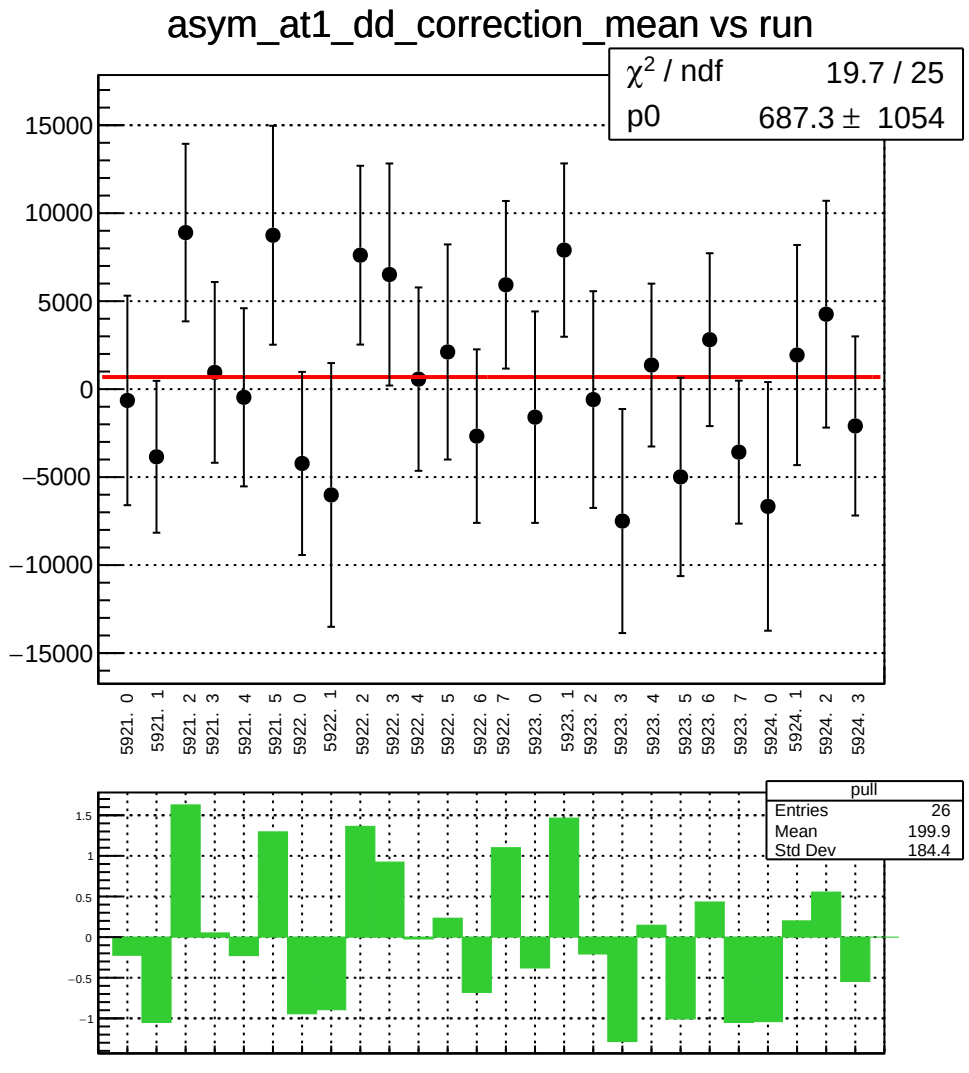

pull1D
Entries 26
Mean −0.003358
Std Dev 1.132
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

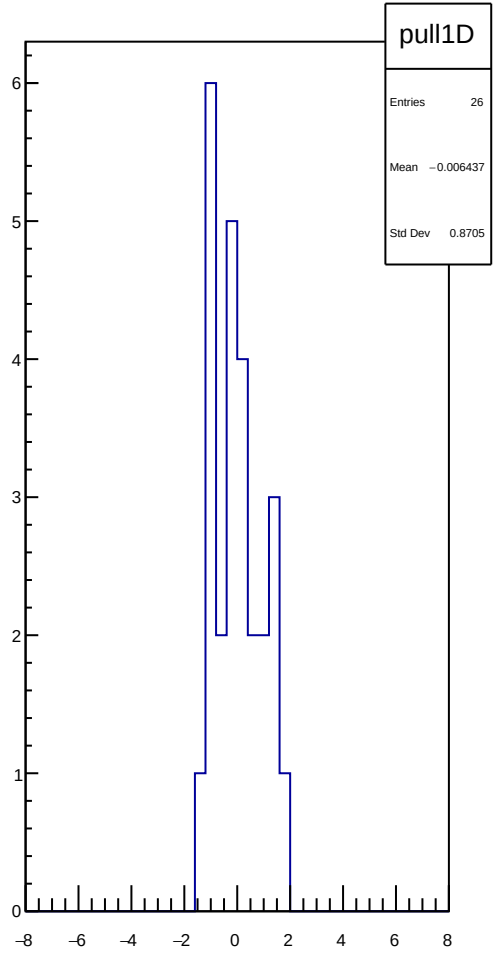

asym_at1_avg_rms vs run
χ² / ndf 45.79 / 25
p0 2038 ± 2.878
2100
2080
2060
2040
2020
2000
1980
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

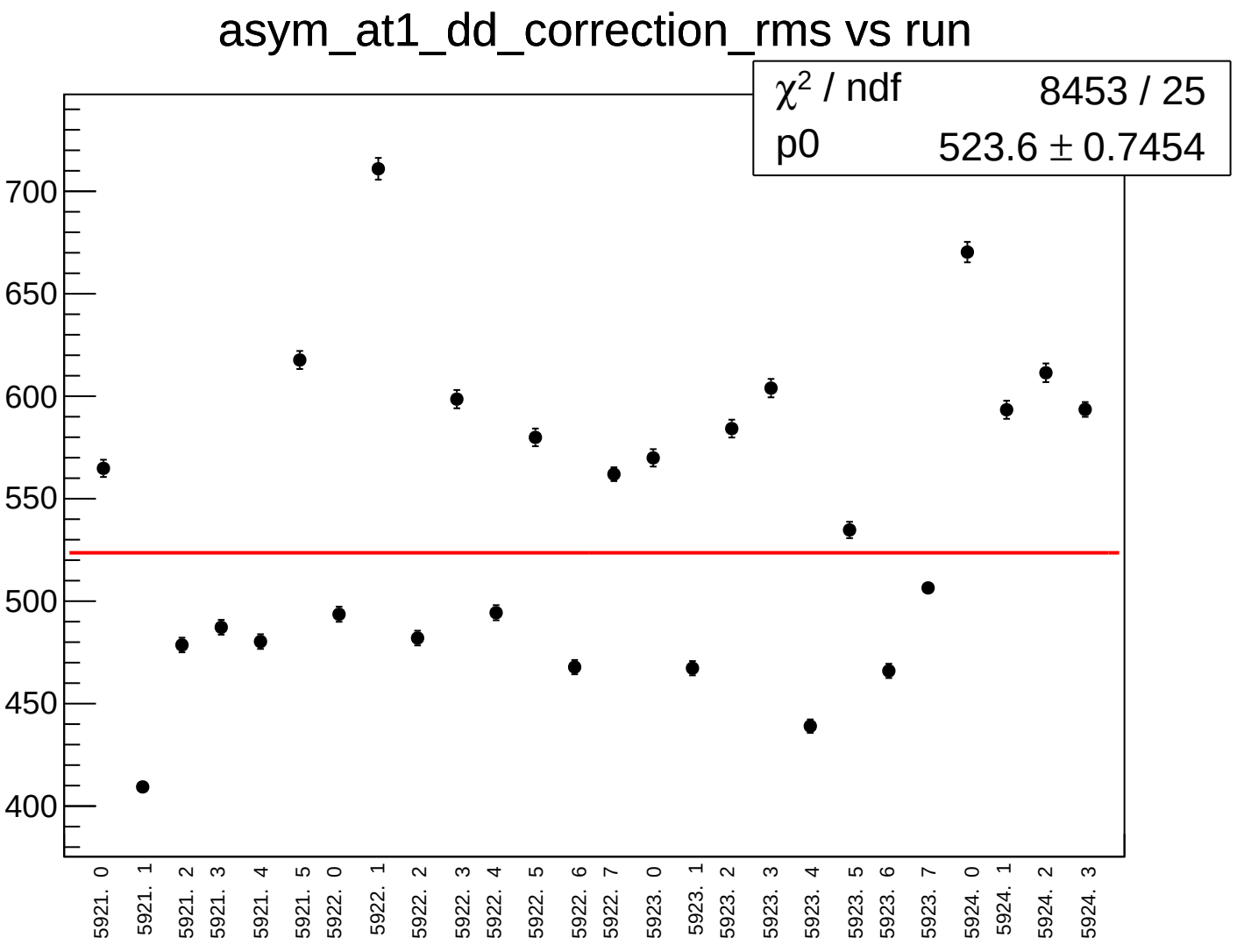

reg_asym_at1_dd_mean vs run
χ² / ndf 17.97 / 25
p0 −554.6 ± 3932
80000
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −32.35
Std Dev 39.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

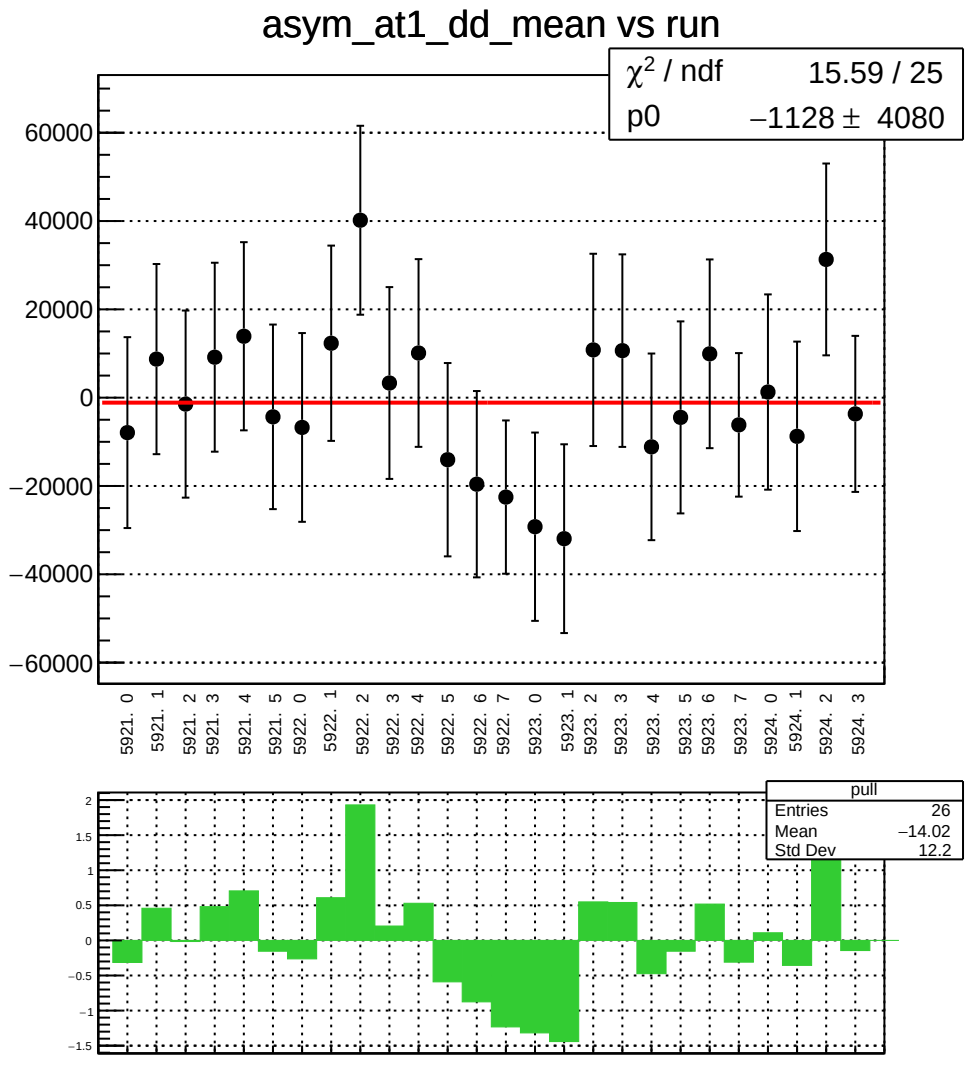

pull1D
Entries 26
Mean 0.01953
Std Dev 0.8311
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

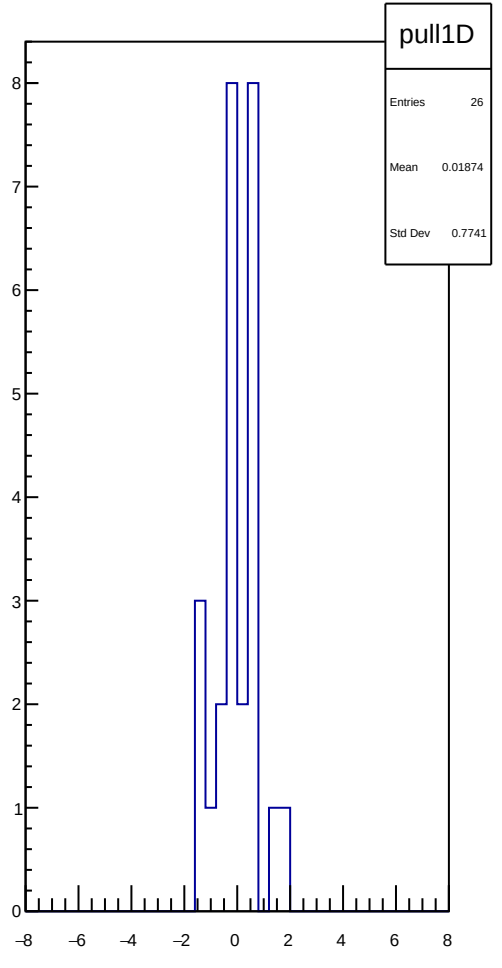

reg_asym_at1_dd_rms vs run
χ² / ndf 26.02 / 25
p0 1970 ± 2.781
2020
2000
1980
1960
1940
1920
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

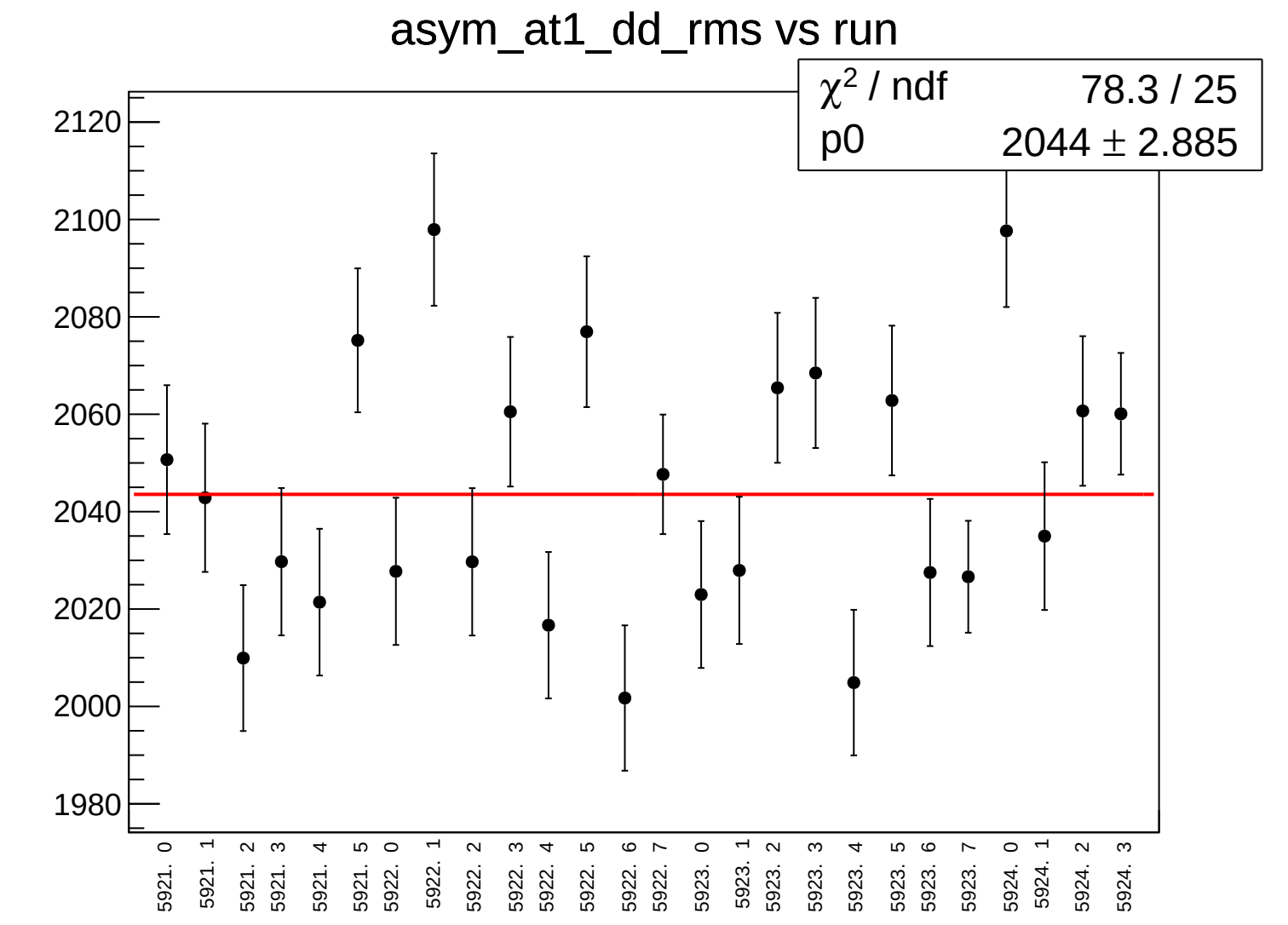

asym_at1_dd_correction_mean vs run
χ² / ndf 19.7 / 25
p0 687.3 ± 1054
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 199.9
Std Dev 184.4
1.5
1
0.5
0
−0.5
−1

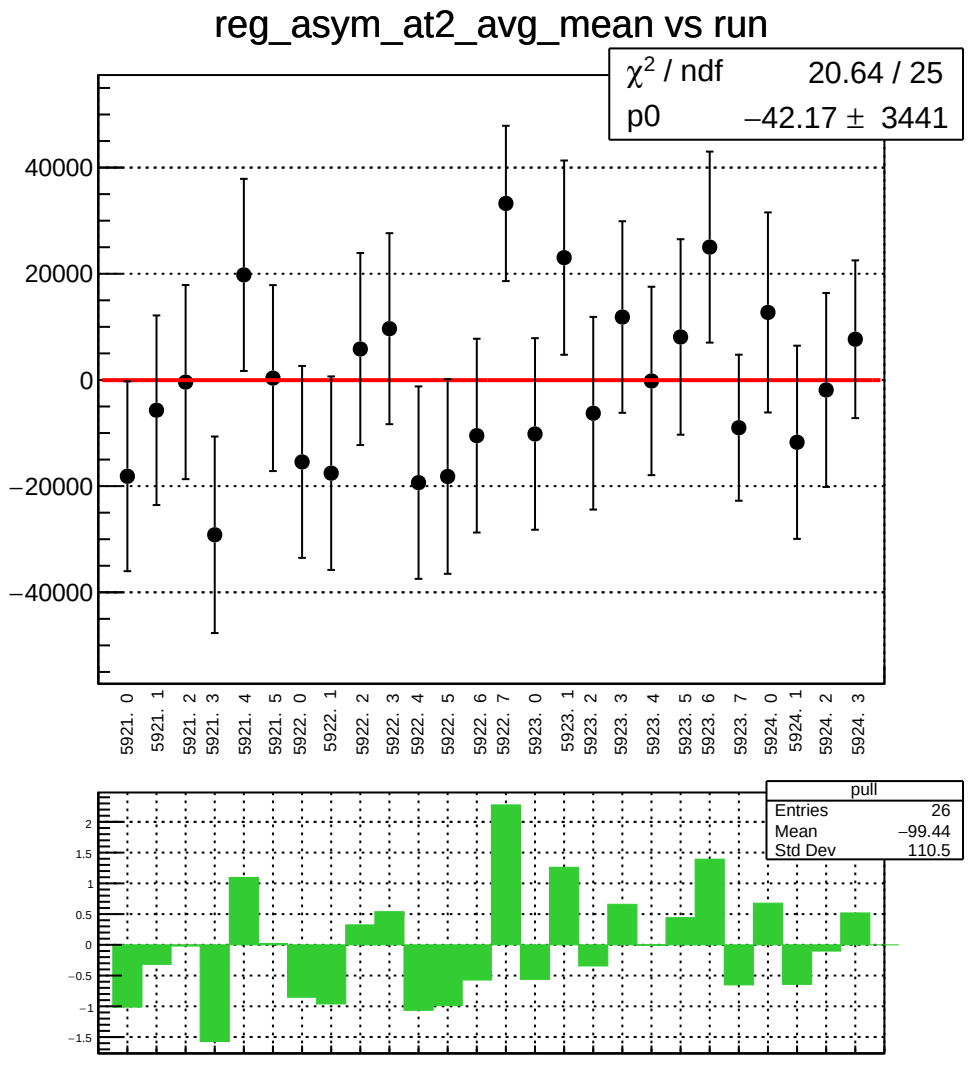

pull1D
Entries 26
Mean −0.006437
Std Dev 0.8705
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

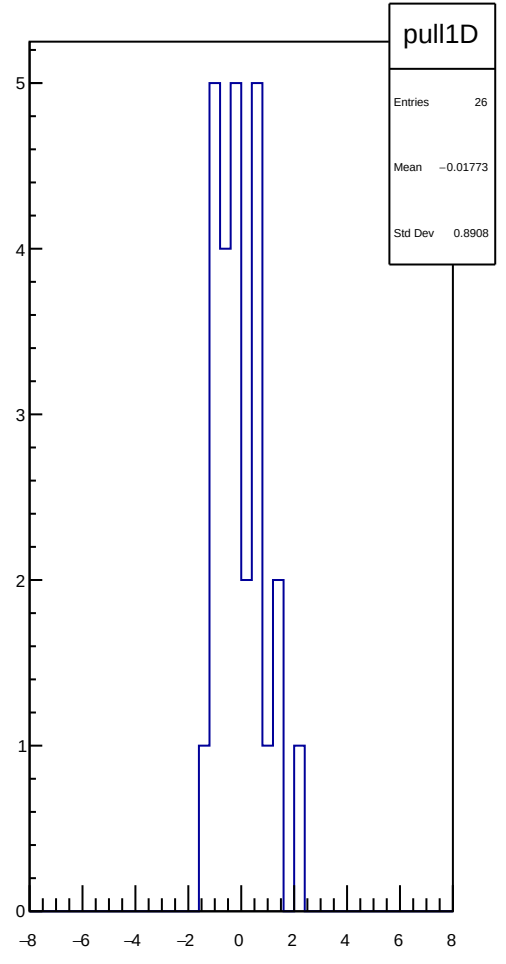

asym_at1_dd_correction_rms vs run
χ² / ndf 8453 / 25
p0 523.6 ± 0.7454
700
650
600
550
500
450
400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

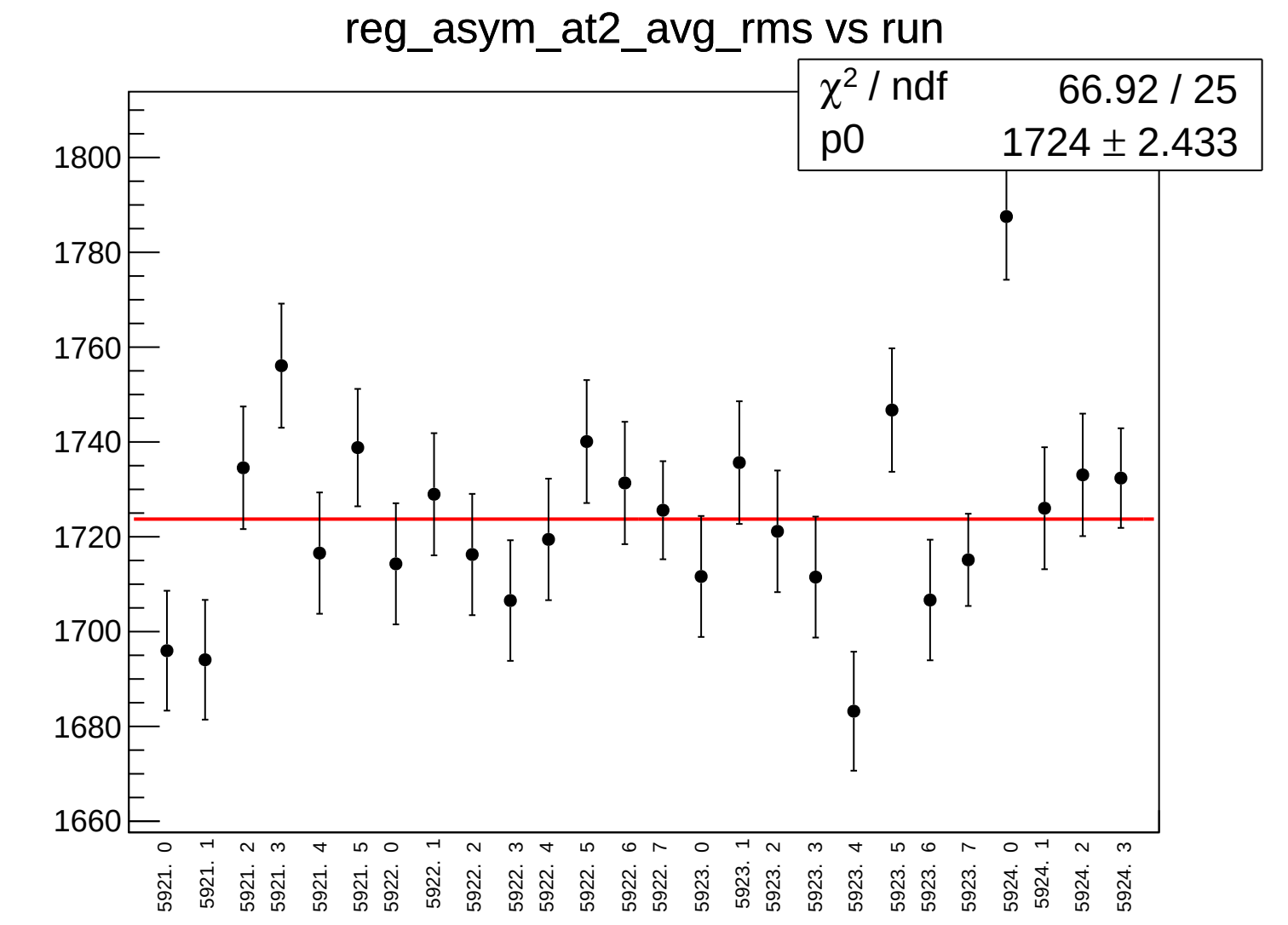

asym_at1_dd_mean vs run
χ² / ndf 15.59 / 25
p0 −1128 ± 4080
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −14.02
Std Dev 12.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

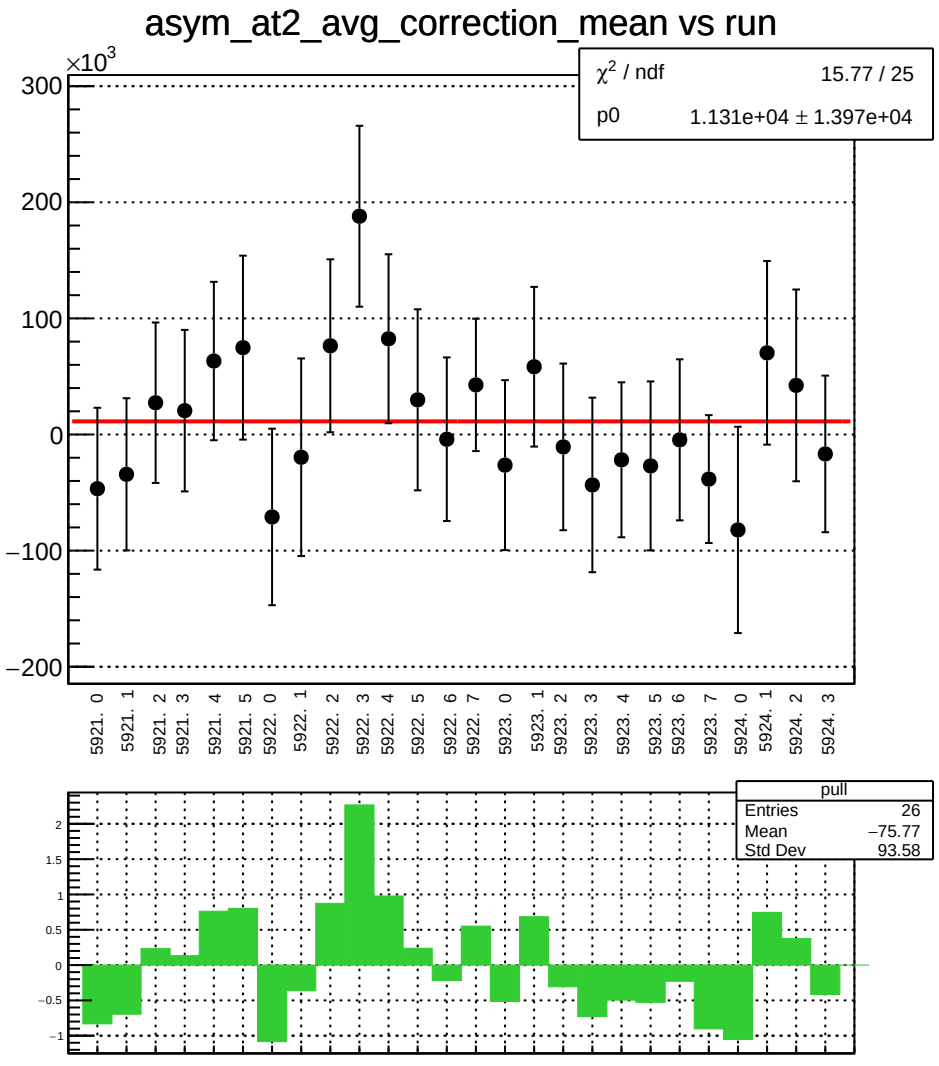

pull1D
Entries 26
Mean 0.01874
Std Dev 0.7741
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

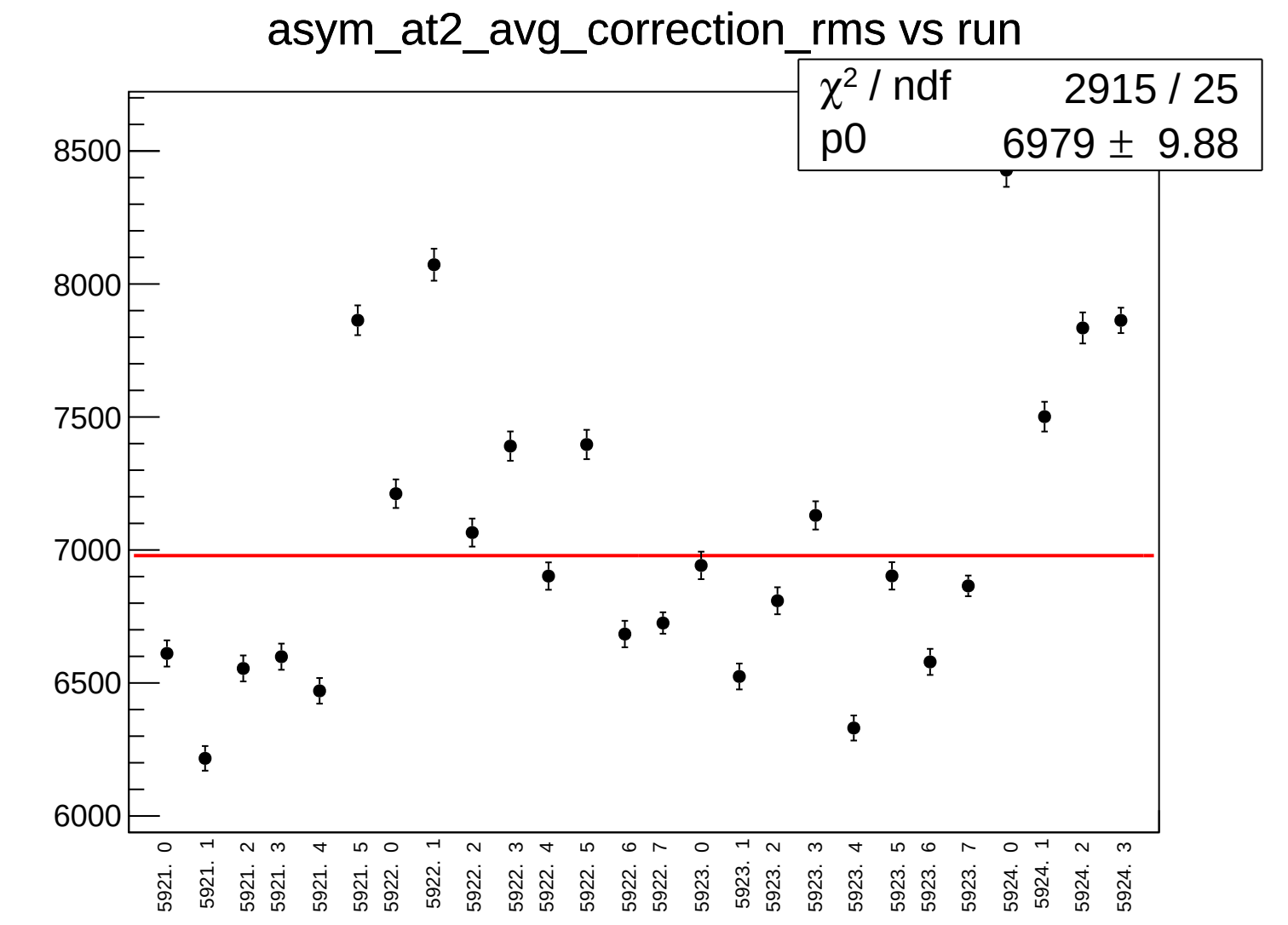

asym_at1_dd_rms vs run
χ² / ndf 78.3 / 25
p0 2044 ± 2.885
2120
2100
2080
2060
2040
2020
2000
1980
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

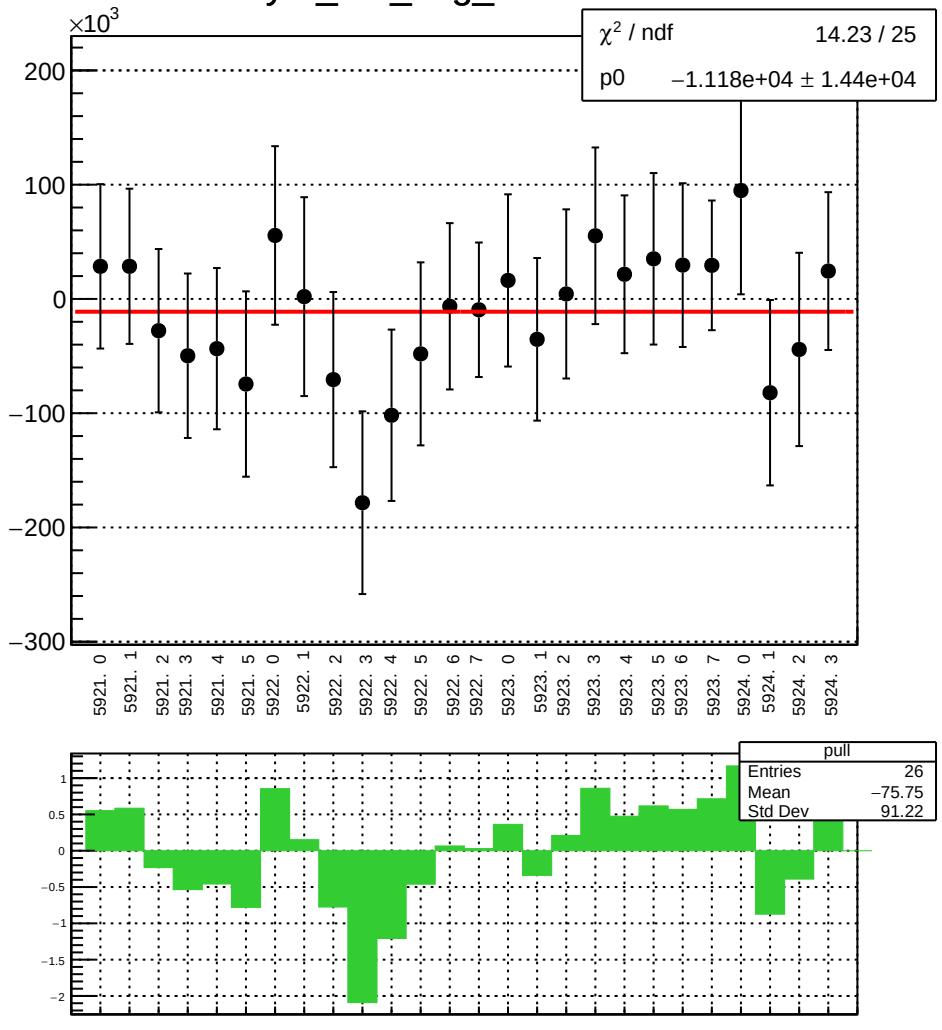

reg_asym_at2_avg_mean vs run
χ² / ndf 20.64 / 25
p0 −42.17 ± 3441
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −99.44
Std Dev 110.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

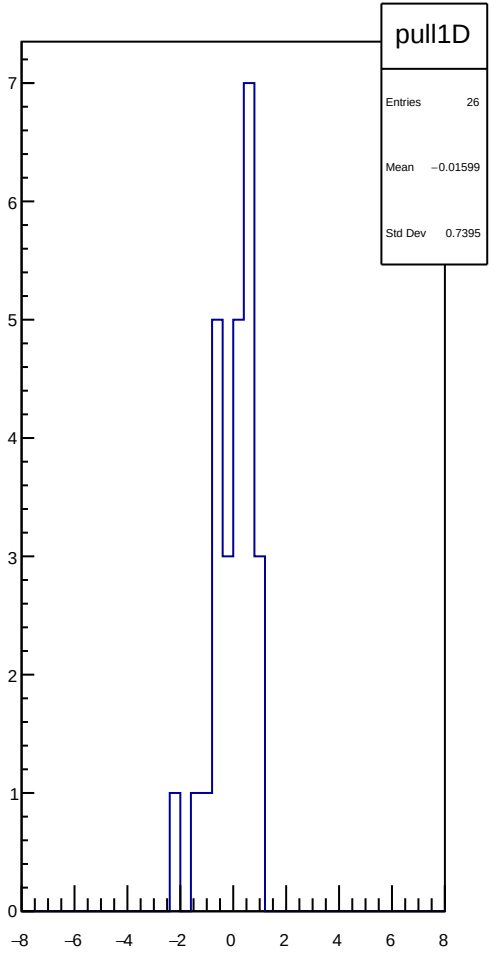

pull1D
Entries 26
Mean −0.01773
Std Dev 0.8908
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

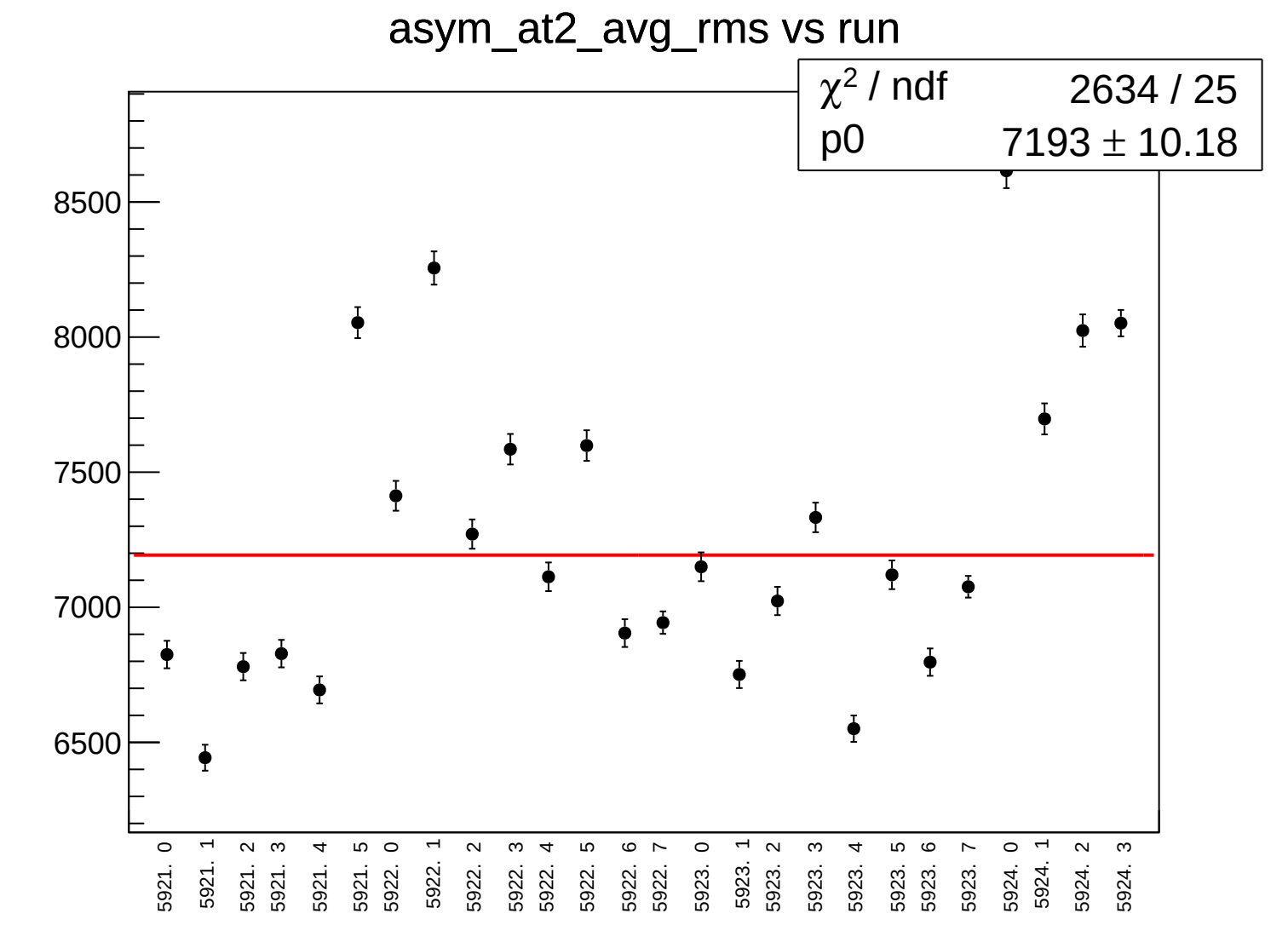

reg_asym_at2_avg_rms vs run
χ² / ndf 66.92 / 25
p0 1724 ± 2.433
1800
1780
1760
1740
1720
1700
1680
1660
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

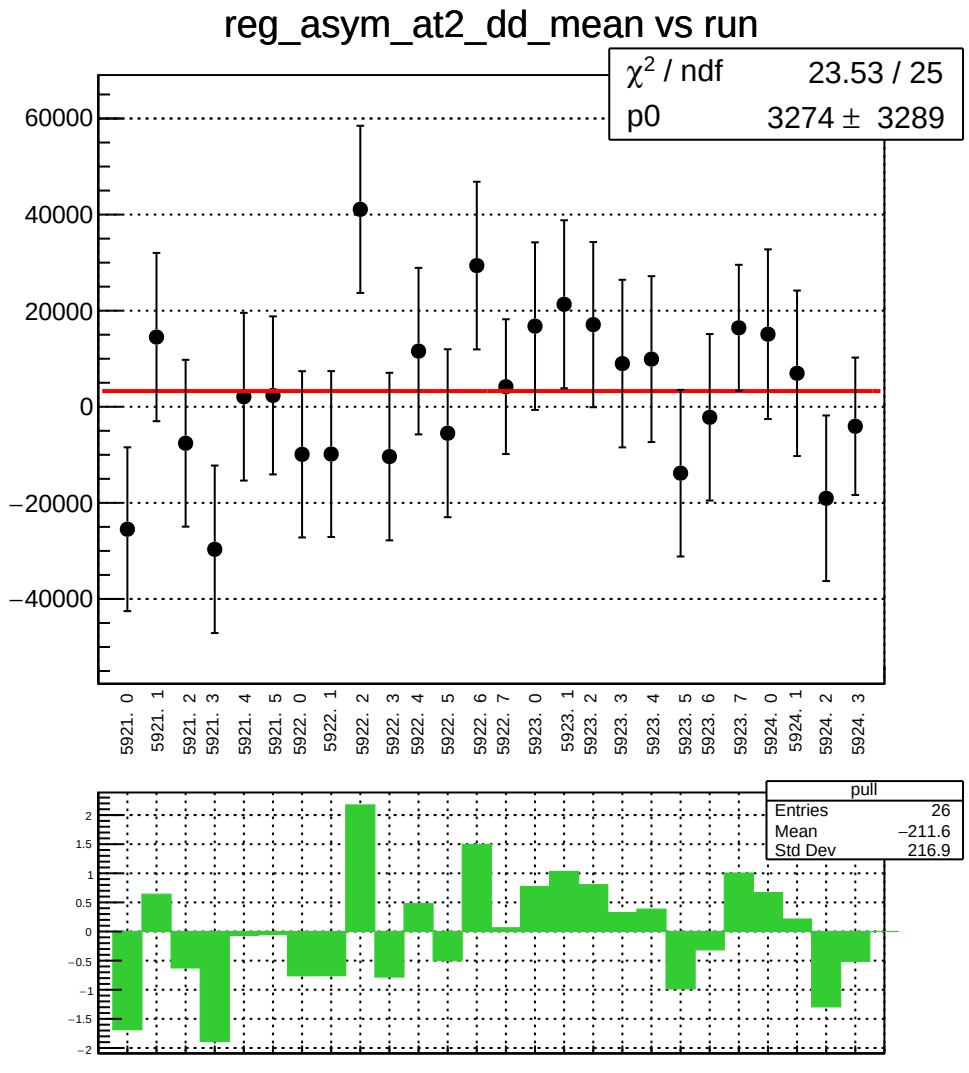

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 15.77 / 25
p0 1.131e+04 ± 1.397e+04
300
200
100
0
−100
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −75.77
Std Dev 93.58
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.01085
Std Dev 0.7788
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

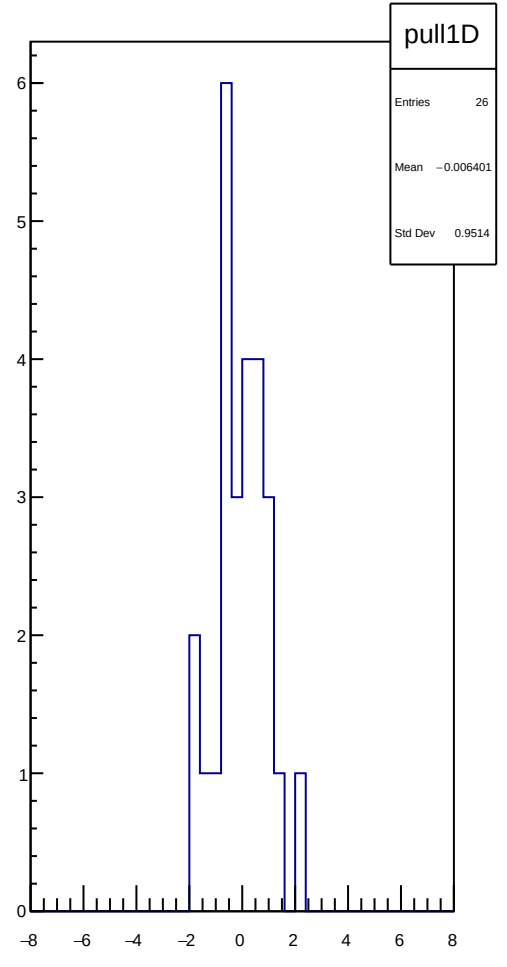

asym_at2_avg_correction_rms vs run
χ² / ndf 2915 / 25
p0 6979 ± 9.88
8500
8000
7500
7000
6500
6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

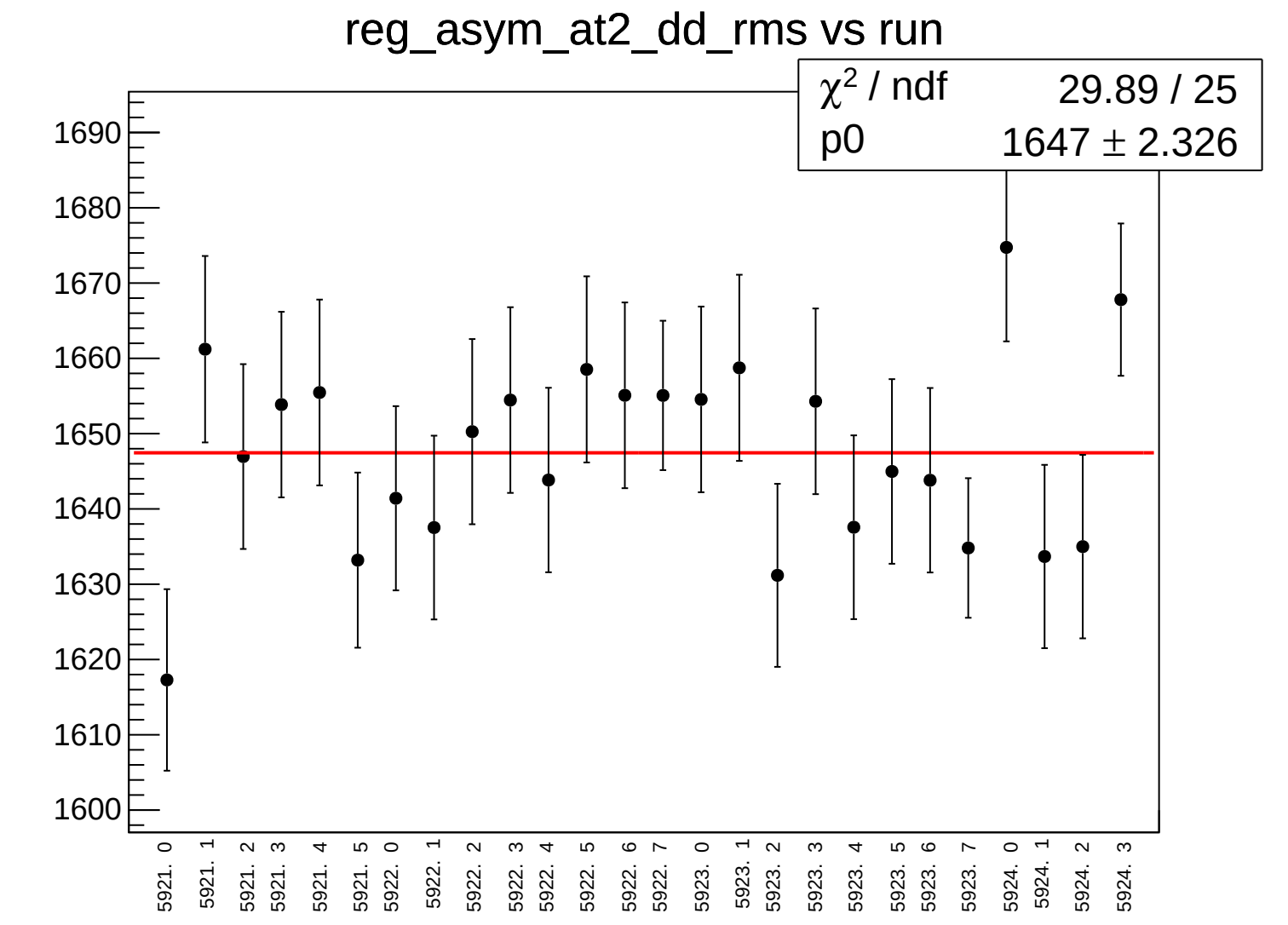

asym_at2_avg_mean vs run
×10^3
χ² / ndf 14.23 / 25
p0 −1.118e+04 ± 1.44e+04
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −75.75
Std Dev 91.22
1
0.5
0
−0.5
−1
−1.5
−2

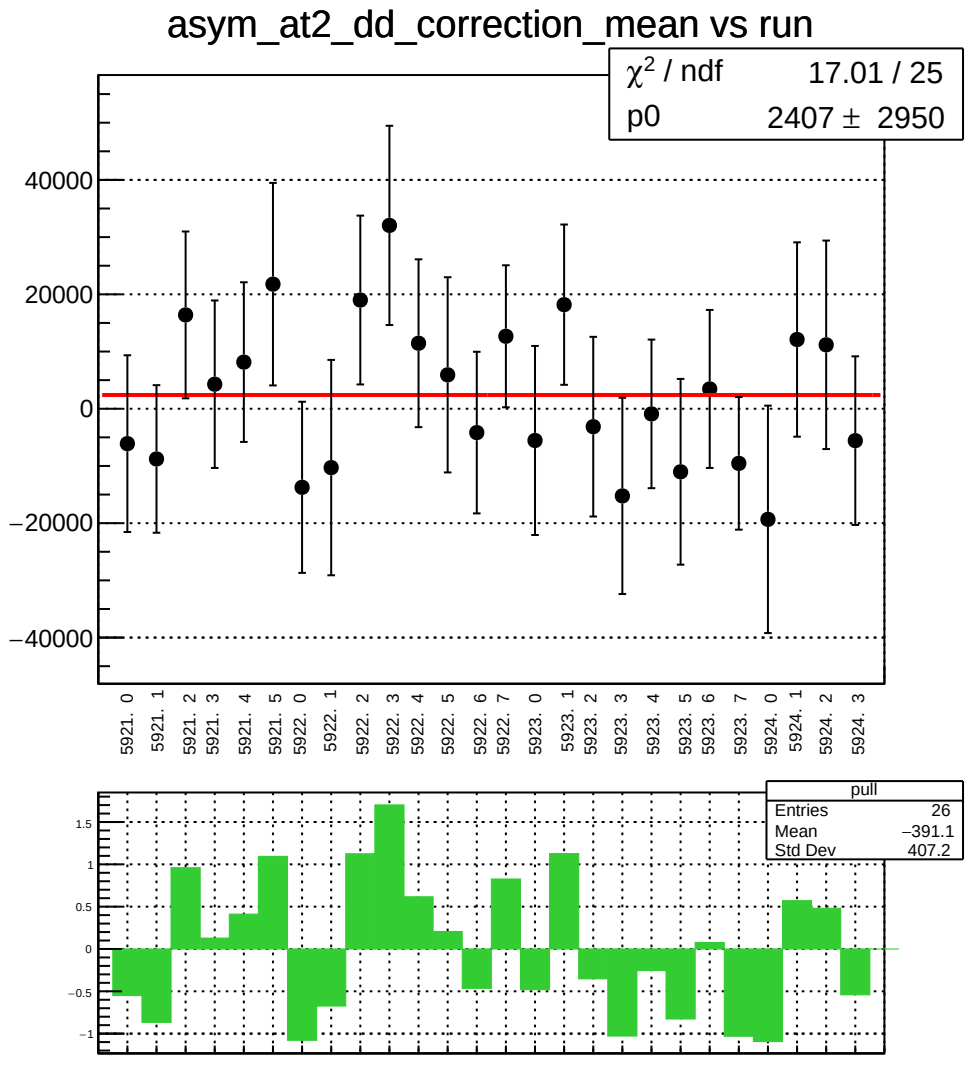

pull1D
Entries 26
Mean −0.01599
Std Dev 0.7395
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

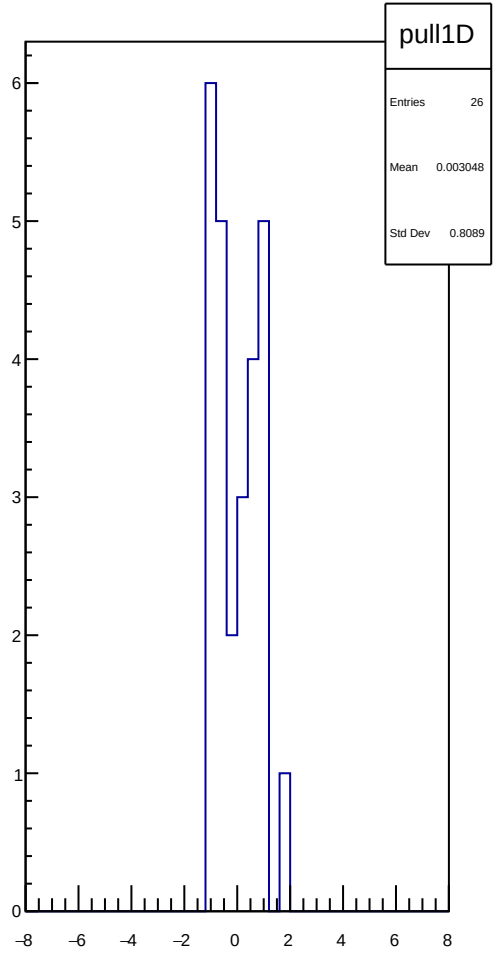

asym_at2_avg_rms vs run
χ² / ndf 2634 / 25
p0 7193 ± 10.18
8500
8000
7500
7000
6500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

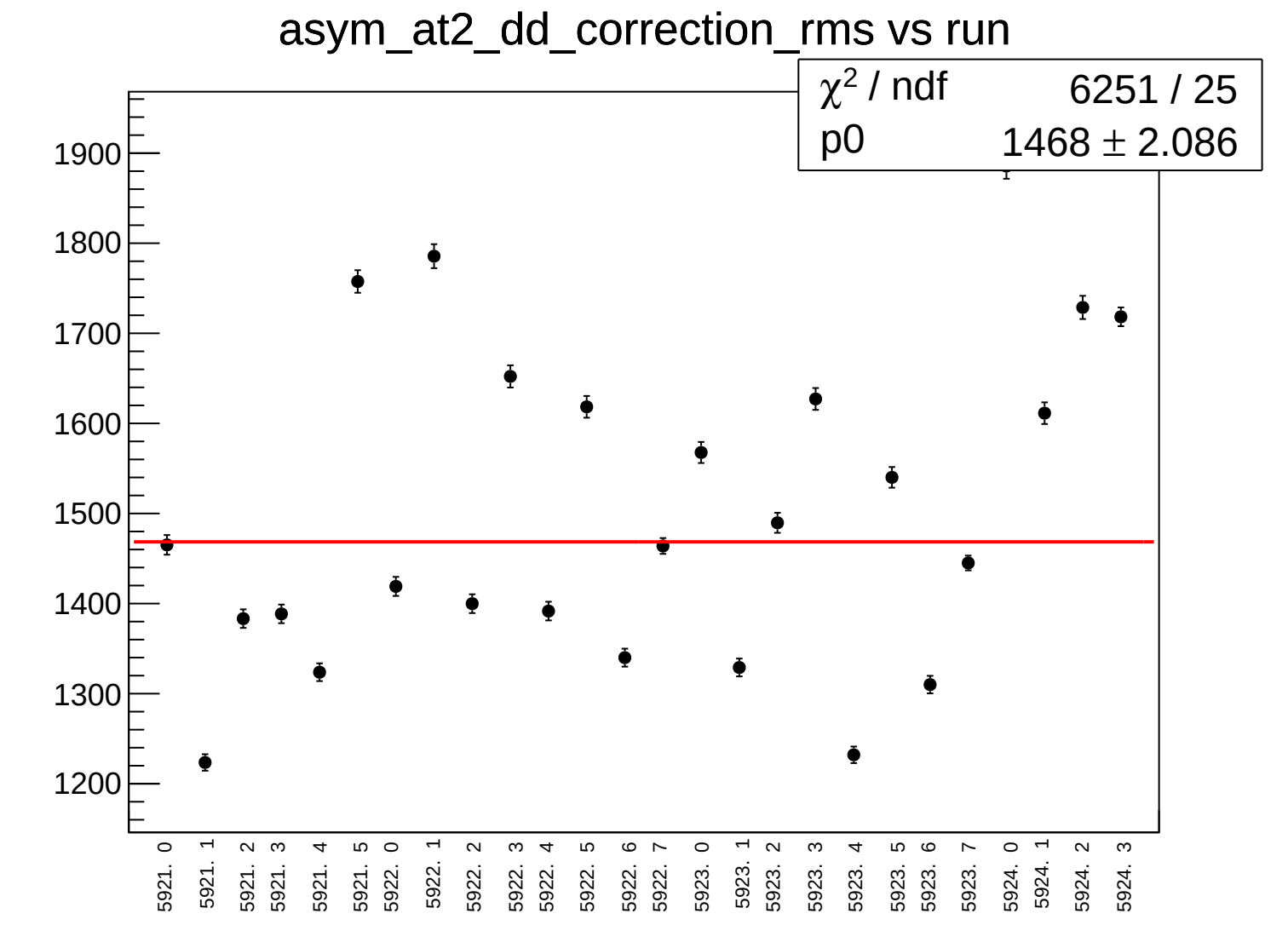

reg_asym_at2_dd_mean vs run
χ² / ndf 23.53 / 25
p0 3274 ± 3289
60000
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −211.6
Std Dev 216.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

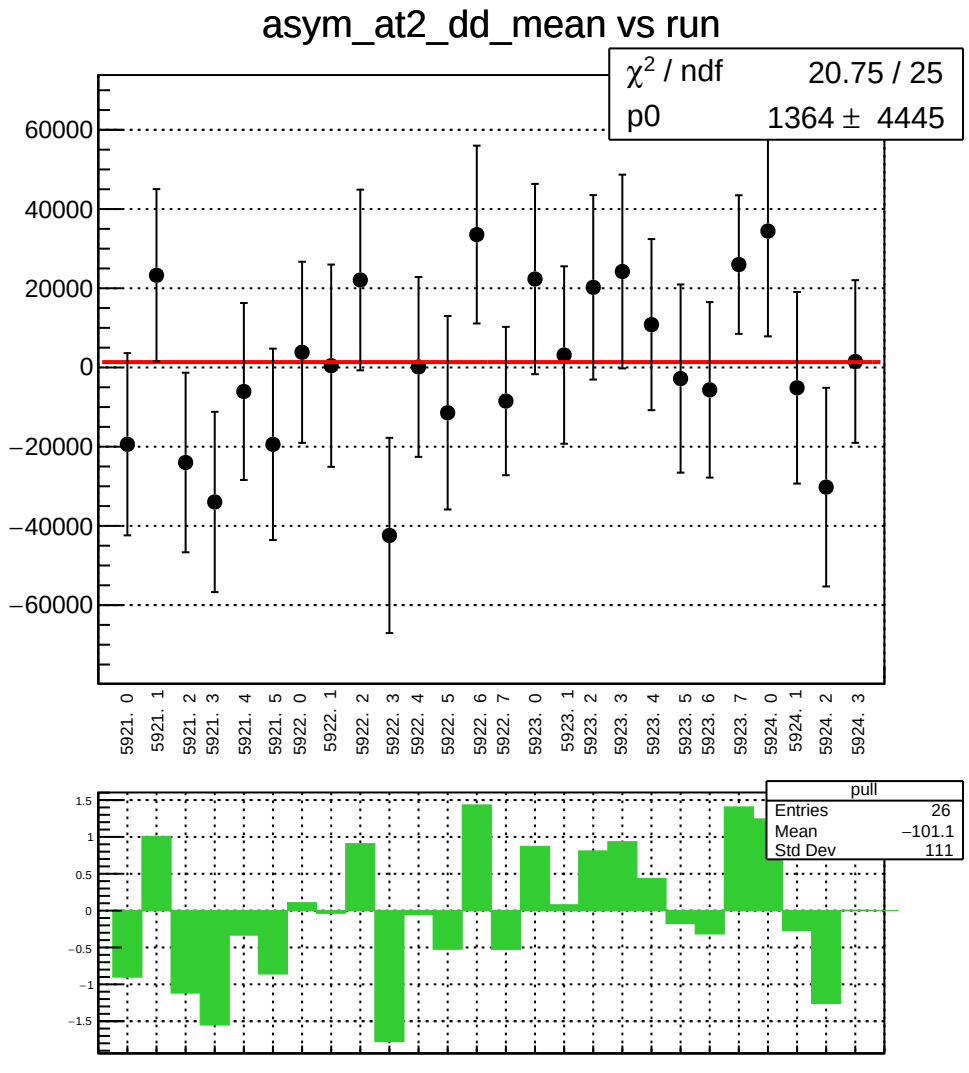

pull1D
Entries 26
Mean −0.006401
Std Dev 0.9514
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

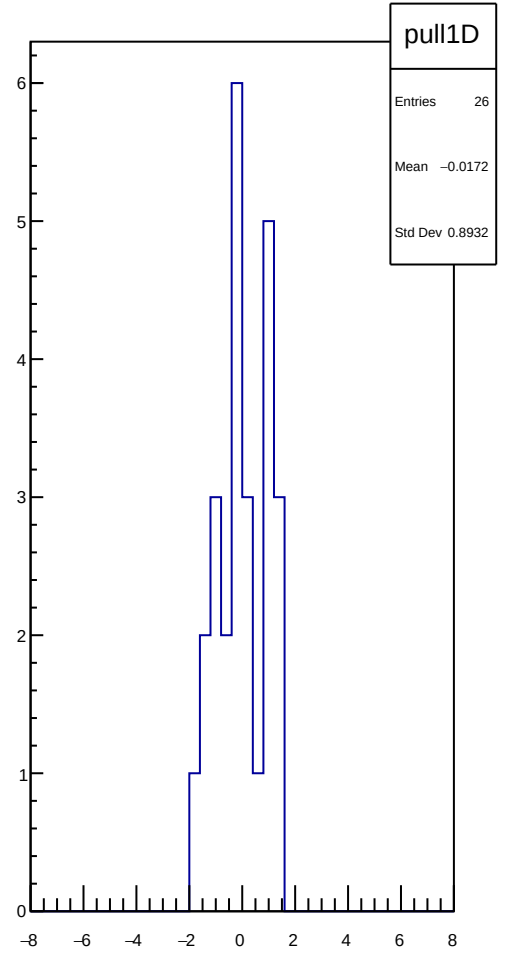

reg_asym_at2_dd_rms vs run
χ² / ndf 29.89 / 25
p0 1647 ± 2.326
1690
1680
1670
1660
1650
1640
1630
1620
1610
1600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

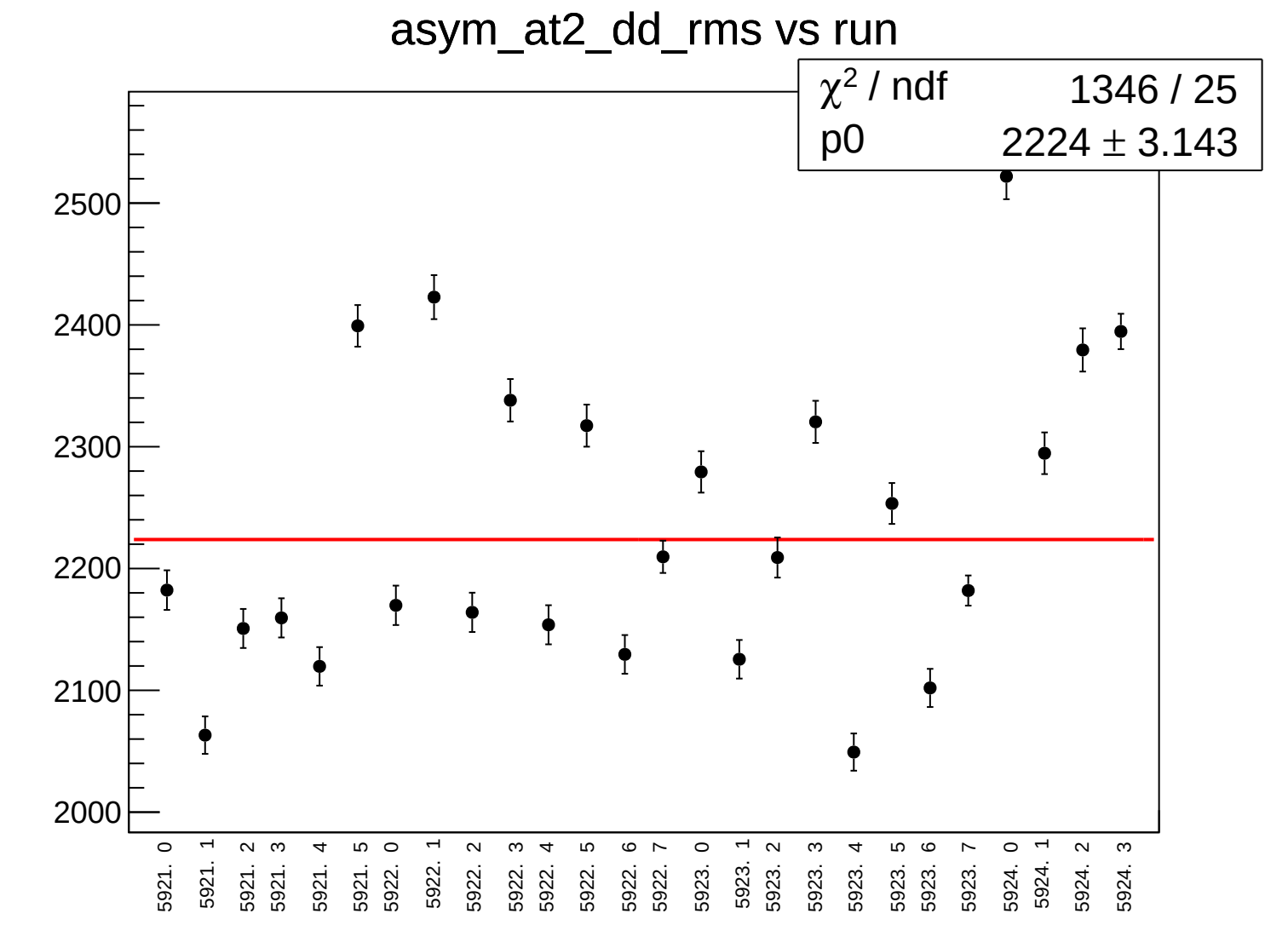

asym_at2_dd_correction_mean vs run
χ² / ndf 17.01 / 25
p0 2407 ± 2950
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −391.1
Std Dev 407.2
1.5
1
0.5
0
−0.5
−1

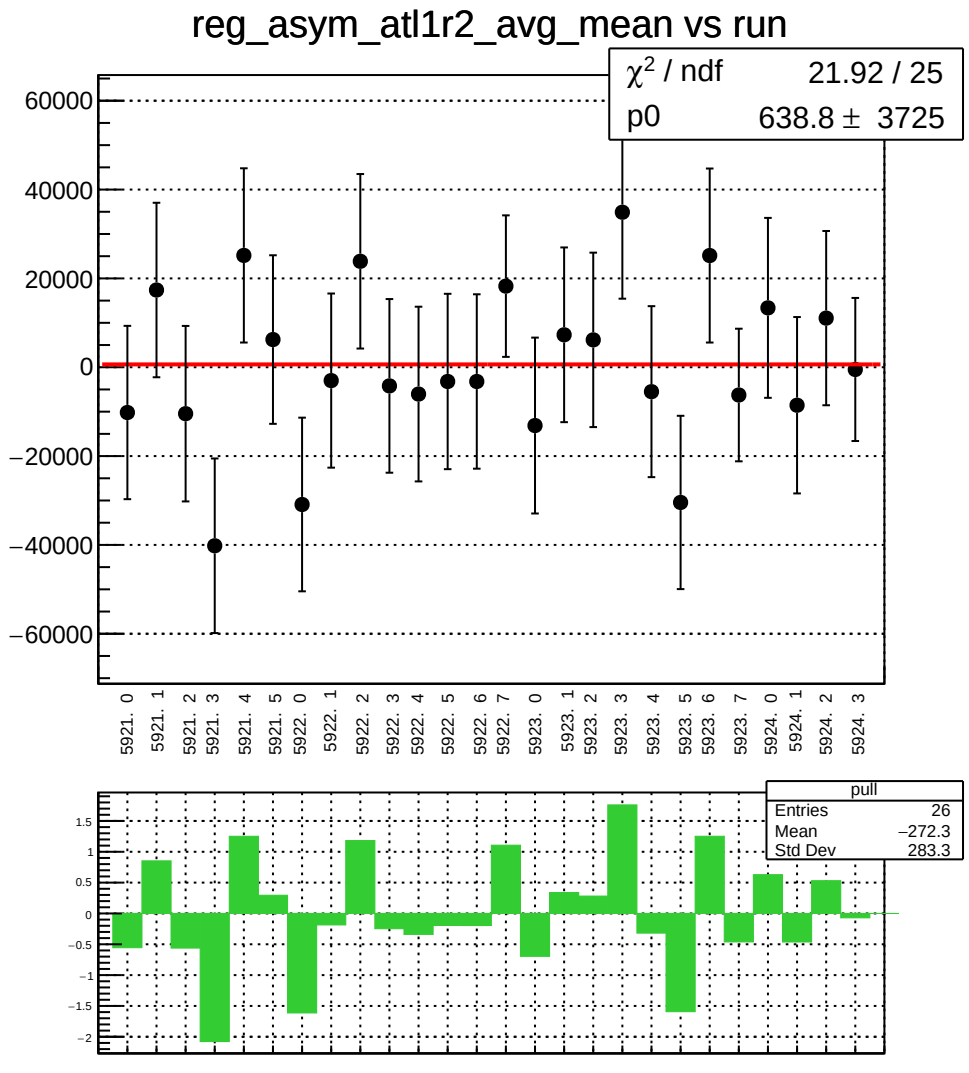

pull1D
Entries 26
Mean 0.003048
Std Dev 0.8089
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

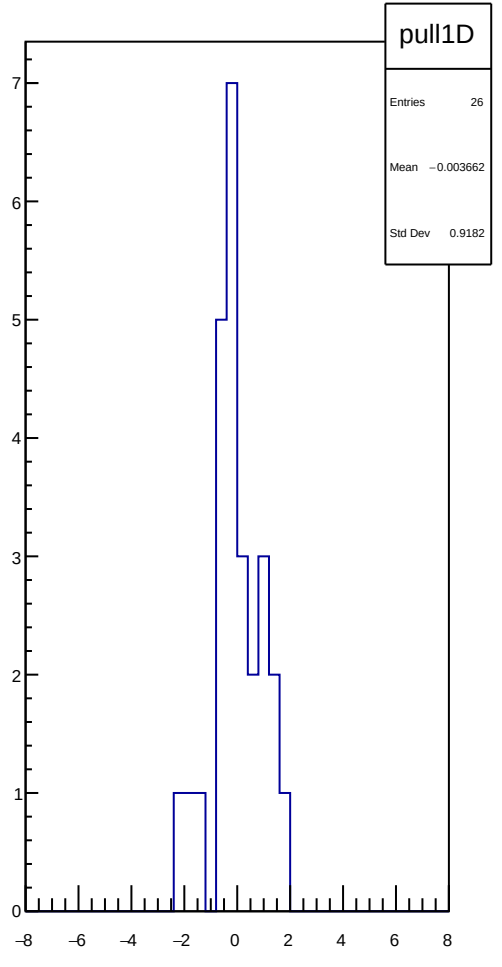

asym_at2_dd_correction_rms vs run
χ² / ndf 6251 / 25
p0 1468 ± 2.086
1900
1800
1700
1600
1500
1400
1300
1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

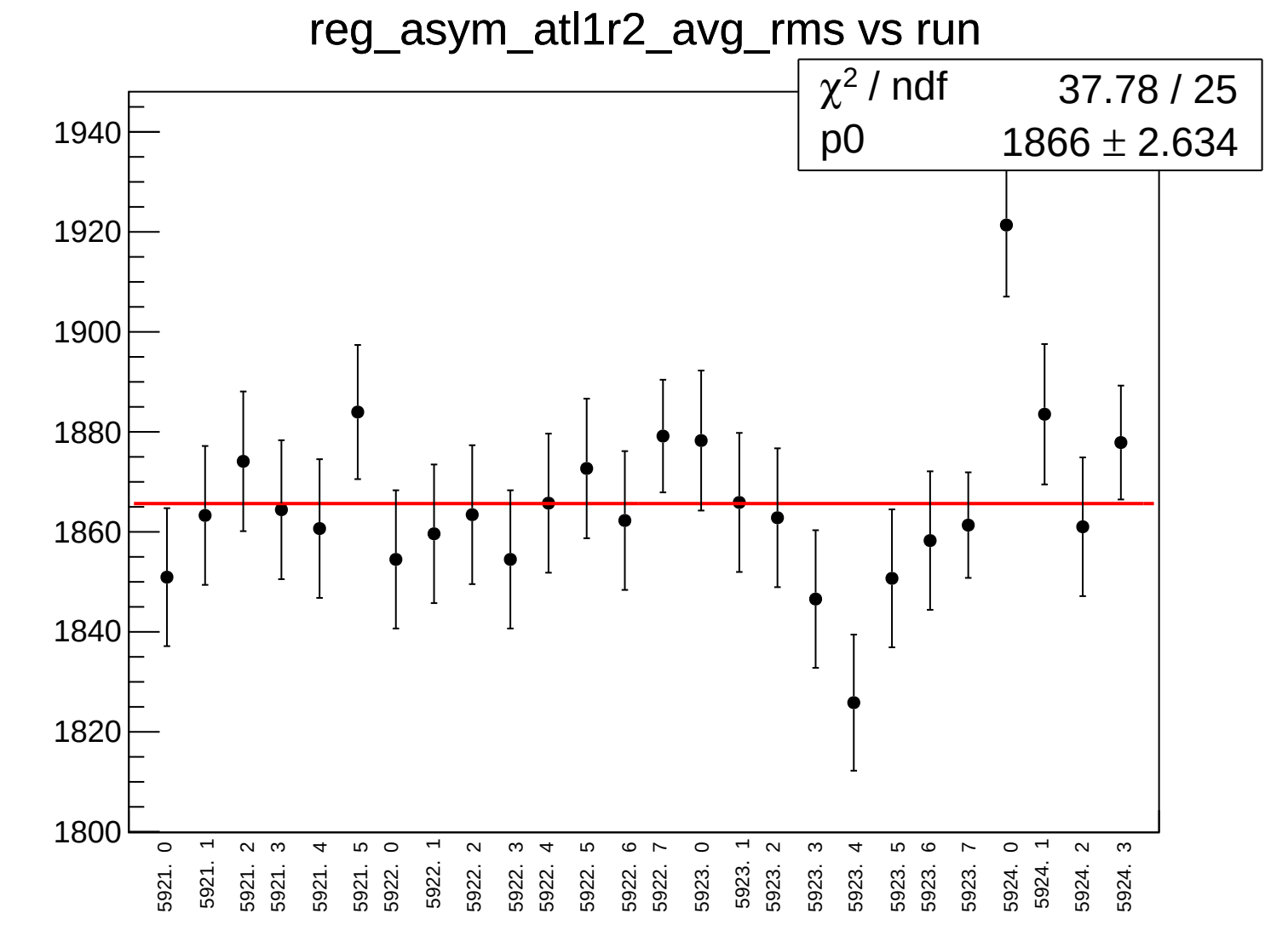

asym_at2_dd_mean vs run
χ² / ndf 20.75 / 25
p0 1364 ± 4445
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −101.1
Std Dev 111
1.5
1
0.5
0
−0.5
−1
−1.5

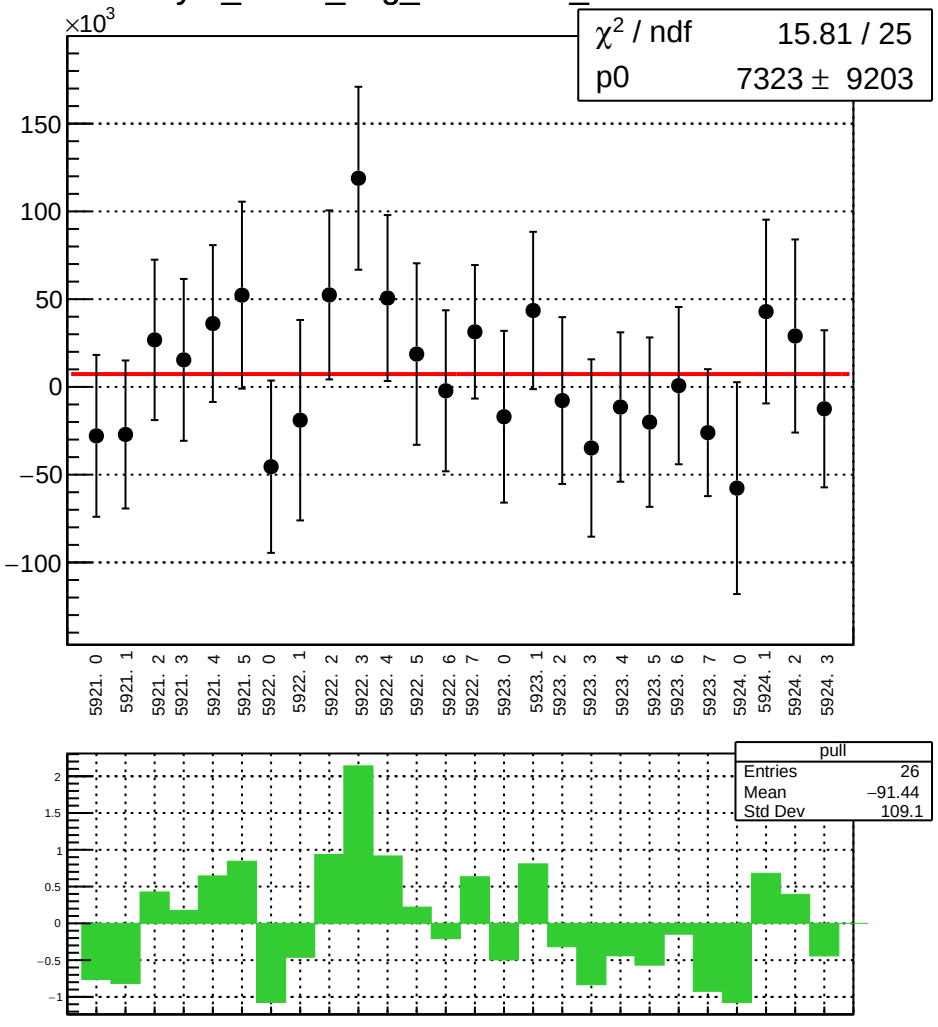

pull1D
Entries 26
Mean −0.0172
Std Dev 0.8932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

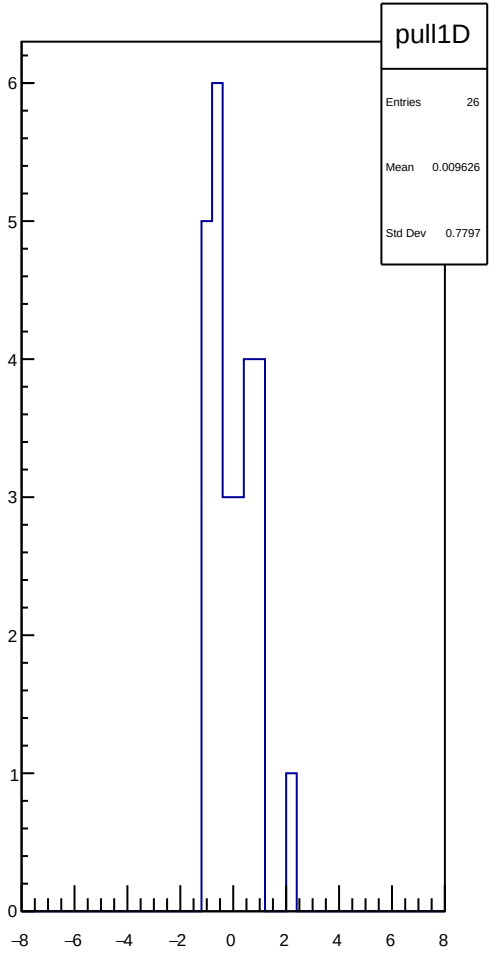

asym_at2_dd_rms vs run
χ² / ndf 1346 / 25
p0 2224 ± 3.143
2500
2400
2300
2200
2100
2000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

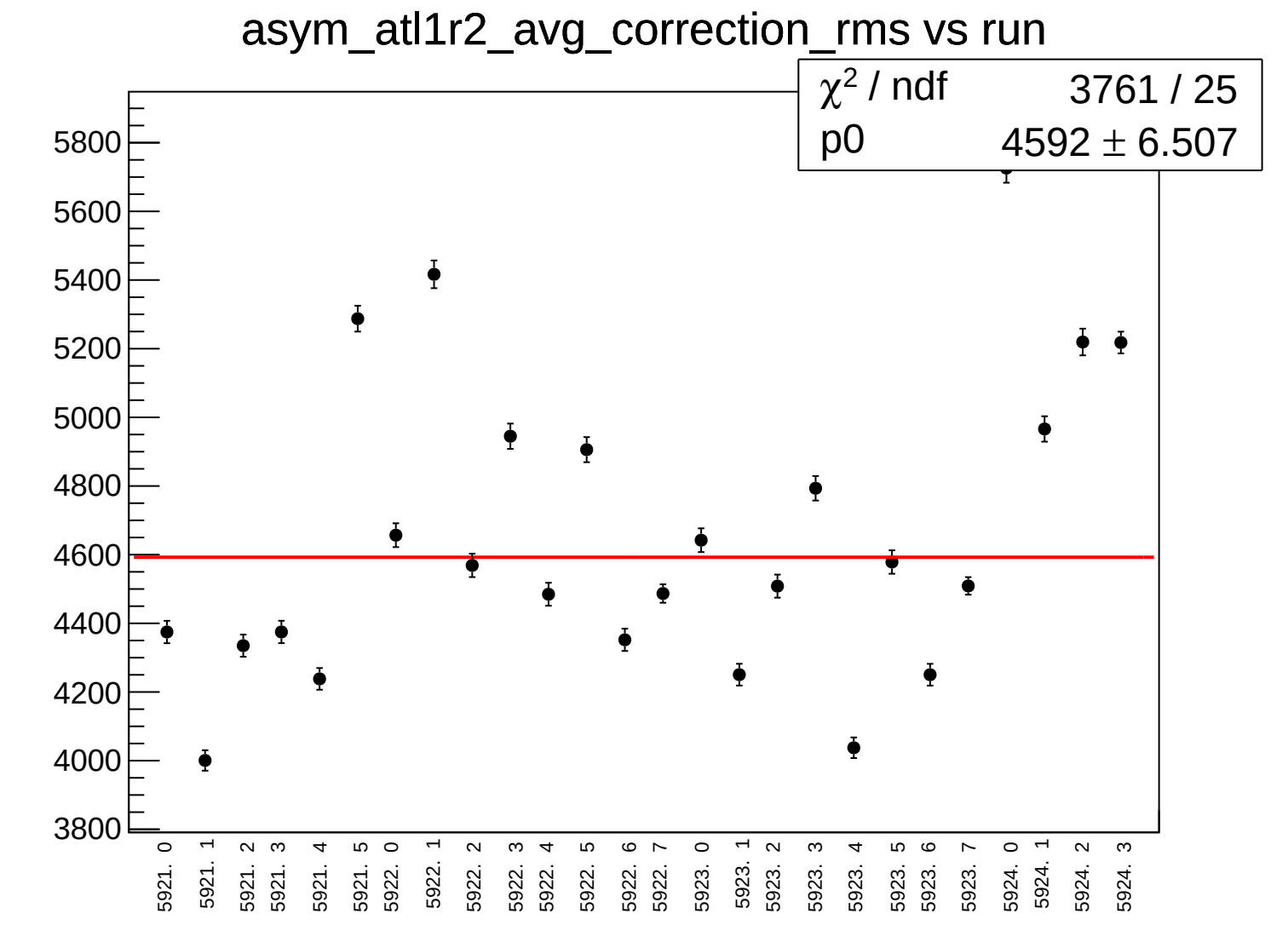

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 21.92 / 25
p0 638.8 ± 3725
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −272.3
Std Dev 283.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

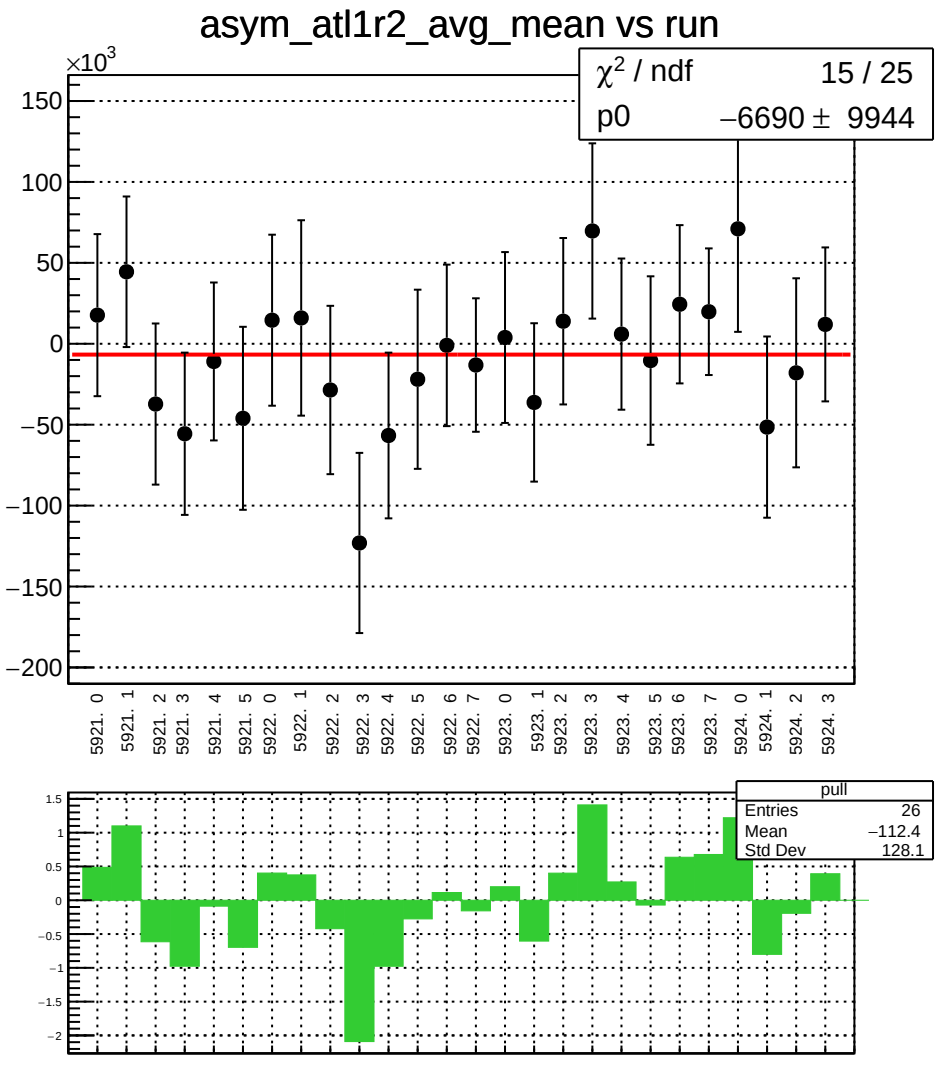

pull1D
Entries 26
Mean −0.003662
Std Dev 0.9182
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

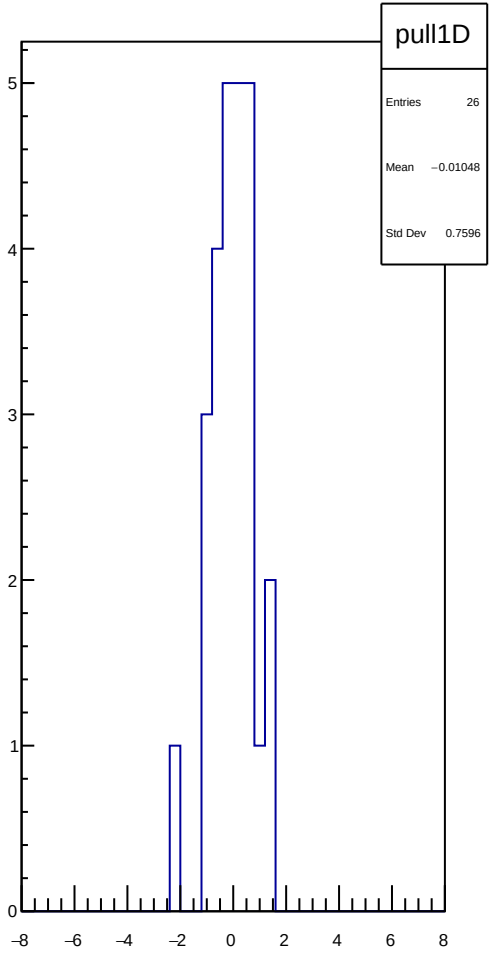

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 37.78 / 25
p0 1866 ± 2.634
1940
1920
1900
1880
1860
1840
1820
1800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

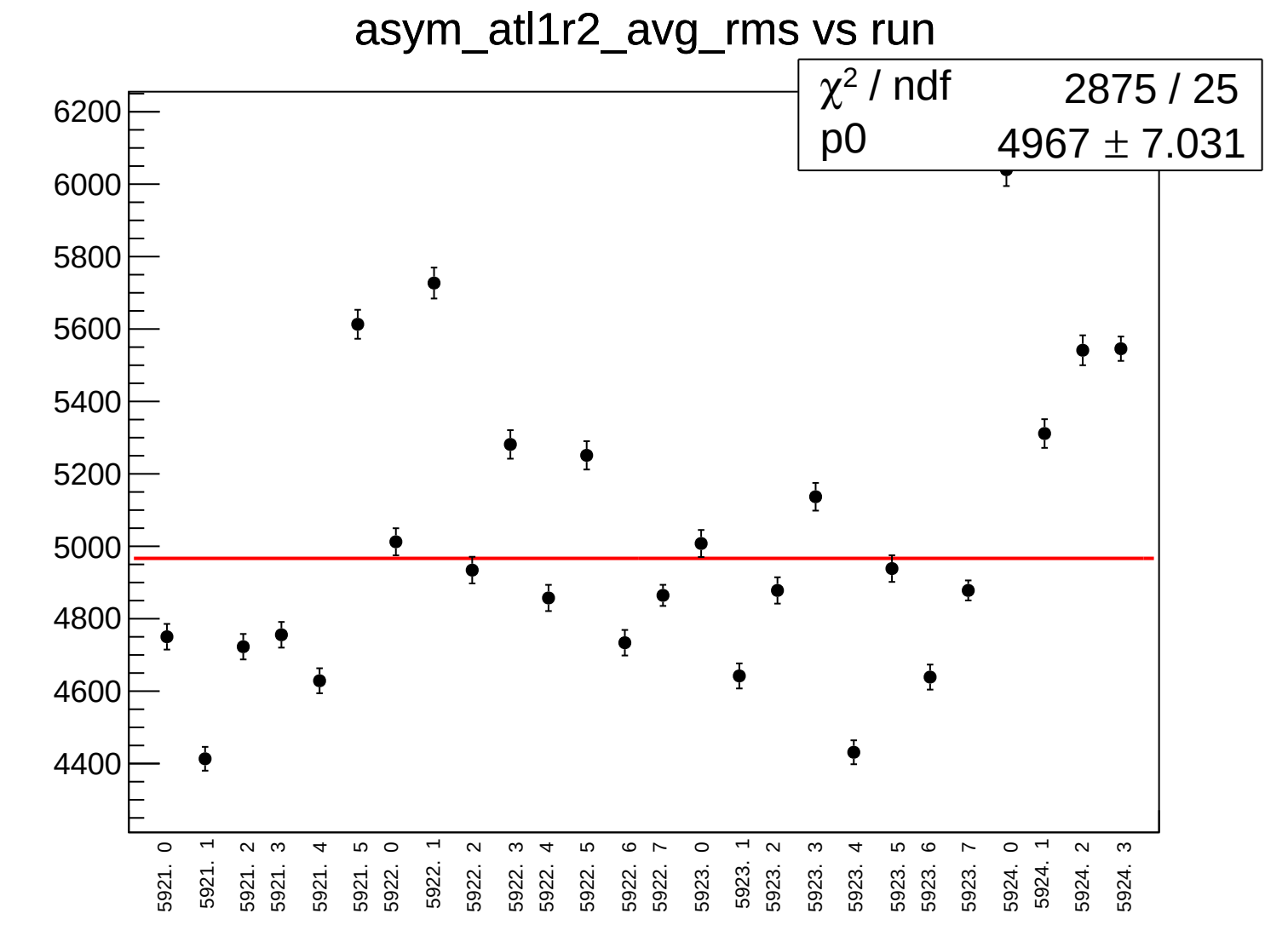

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 15.81 / 25
p0 7323 ± 9203
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −91.44
Std Dev 109.1
2
1.5
1
0.5
0
−0.5
−1

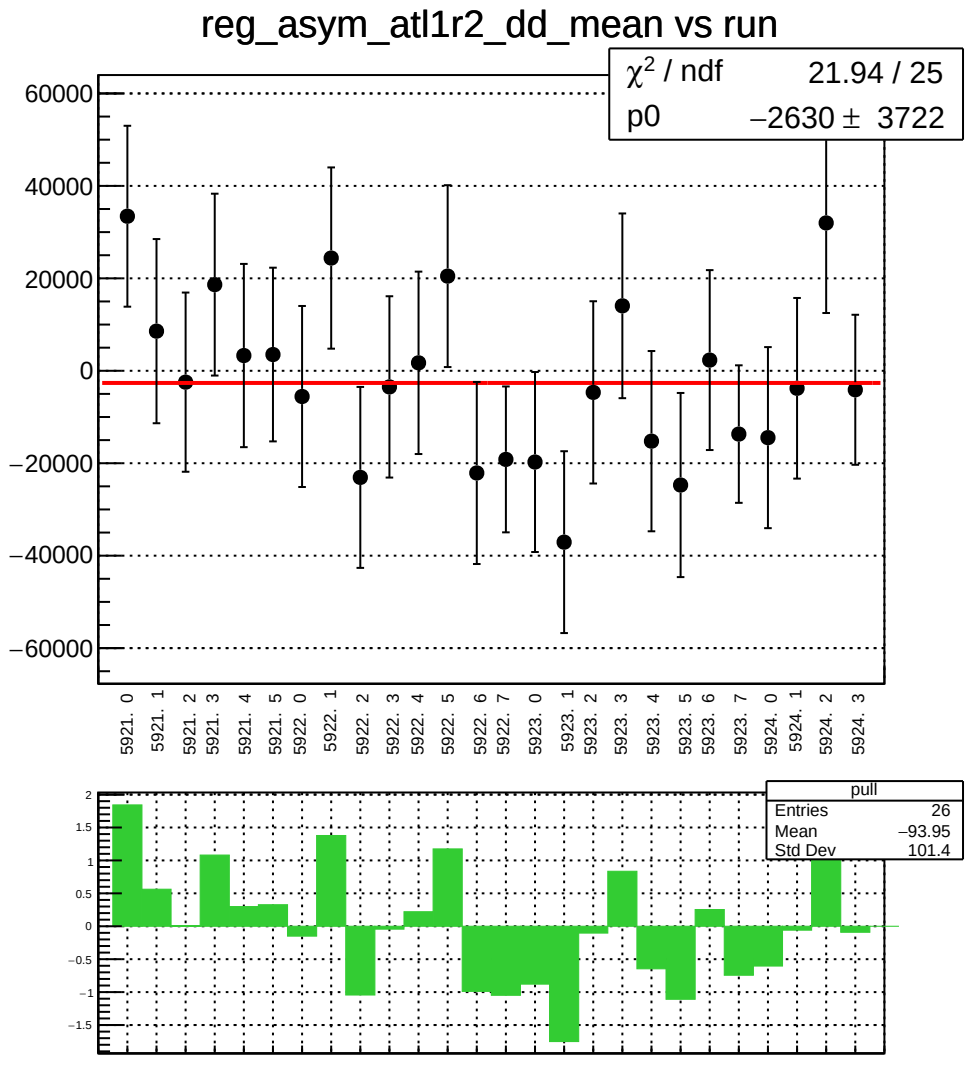

pull1D
Entries 26
Mean 0.009626
Std Dev 0.7797
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

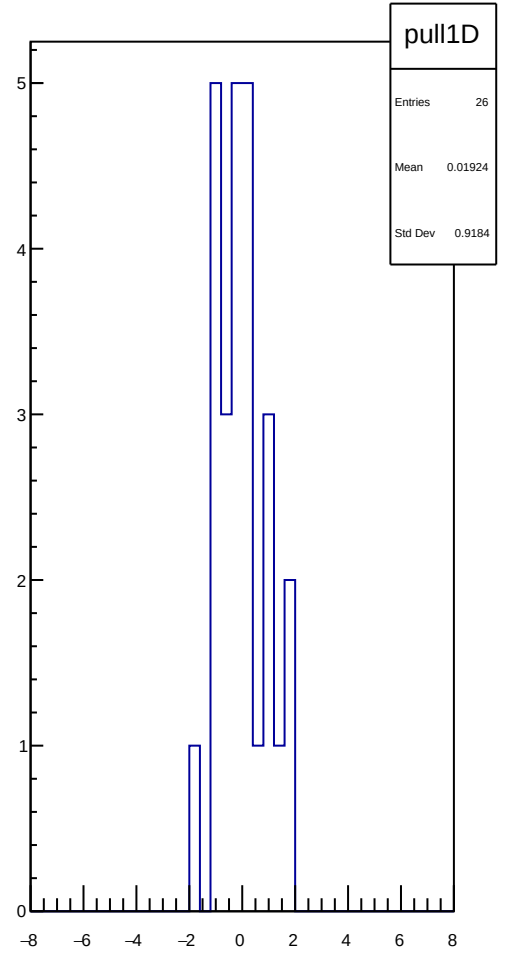

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3761 / 25
p0 4592 ± 6.507
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

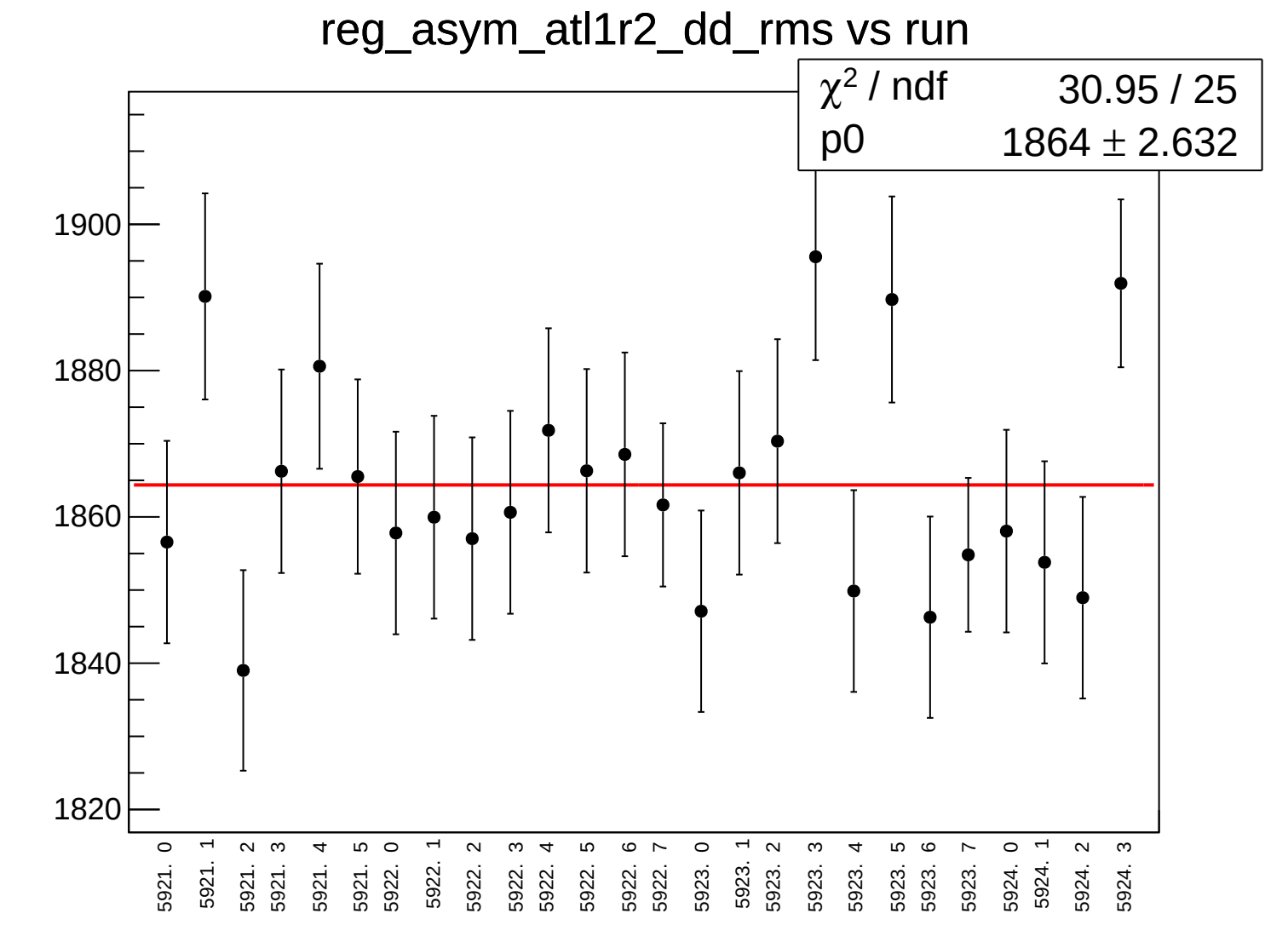

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 15 / 25
p0 −6690 ± 9944
150
100
50
0
−50
−100
−150
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −112.4
Std Dev 128.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

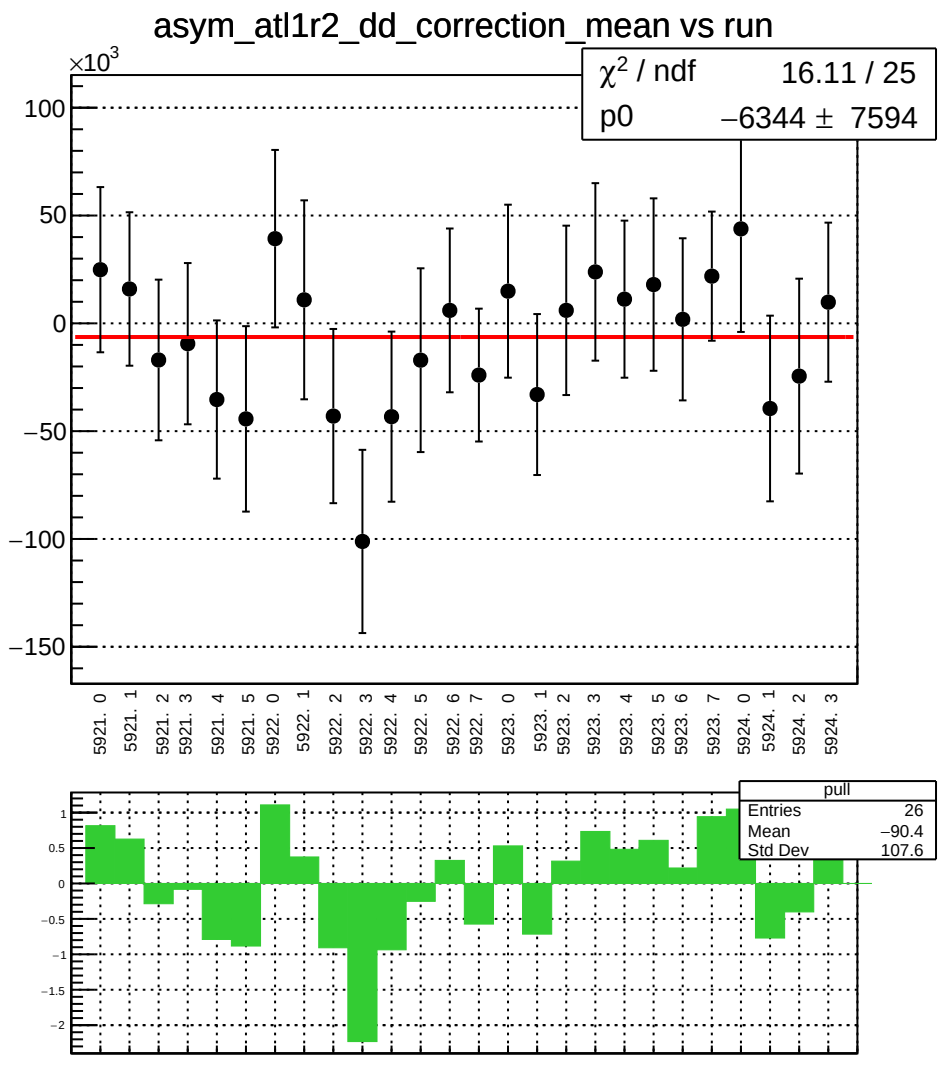

pull1D
Entries 26
Mean −0.01048
Std Dev 0.7596
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

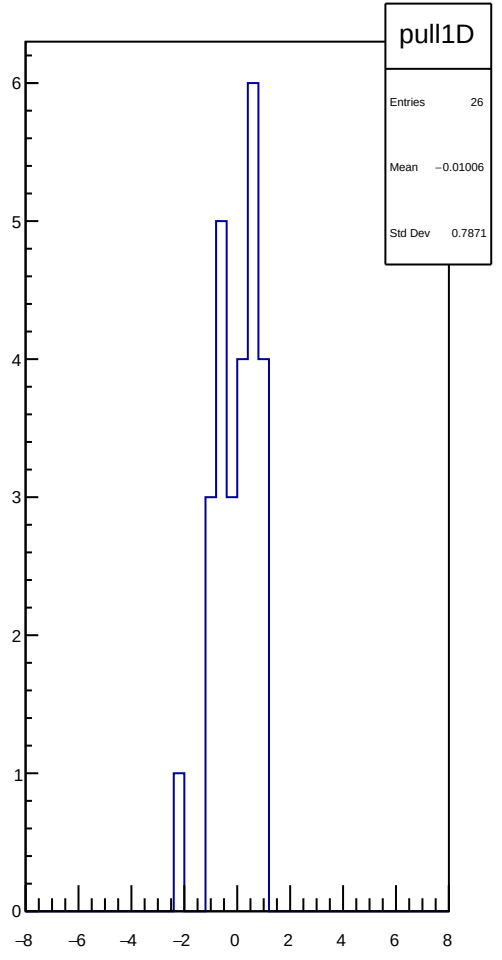

asym_atl1r2_avg_rms vs run
χ² / ndf 2875 / 25
p0 4967 ± 7.031
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

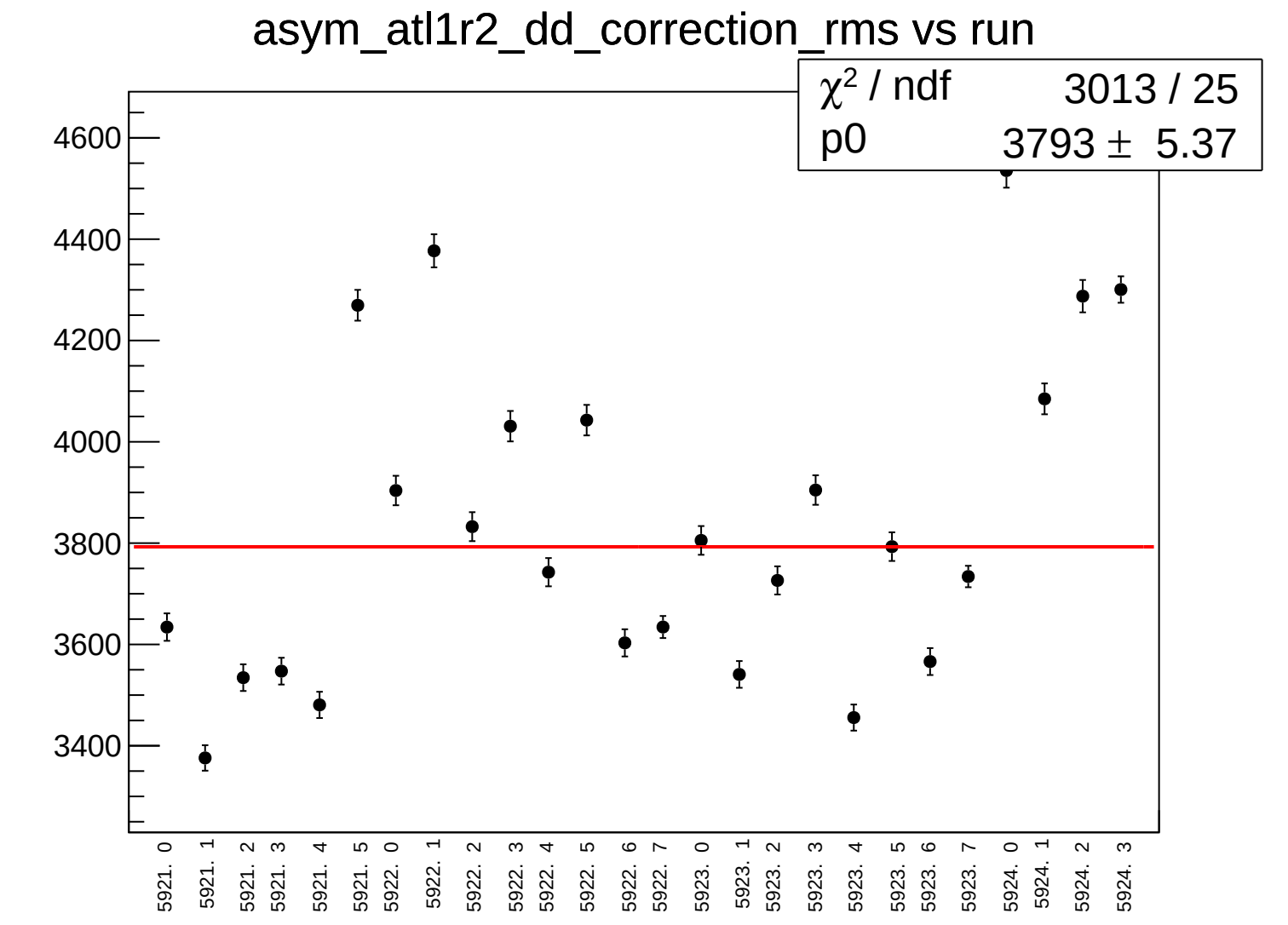

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 21.94 / 25
p0 −2630 ± 3722
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −93.95
Std Dev 101.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

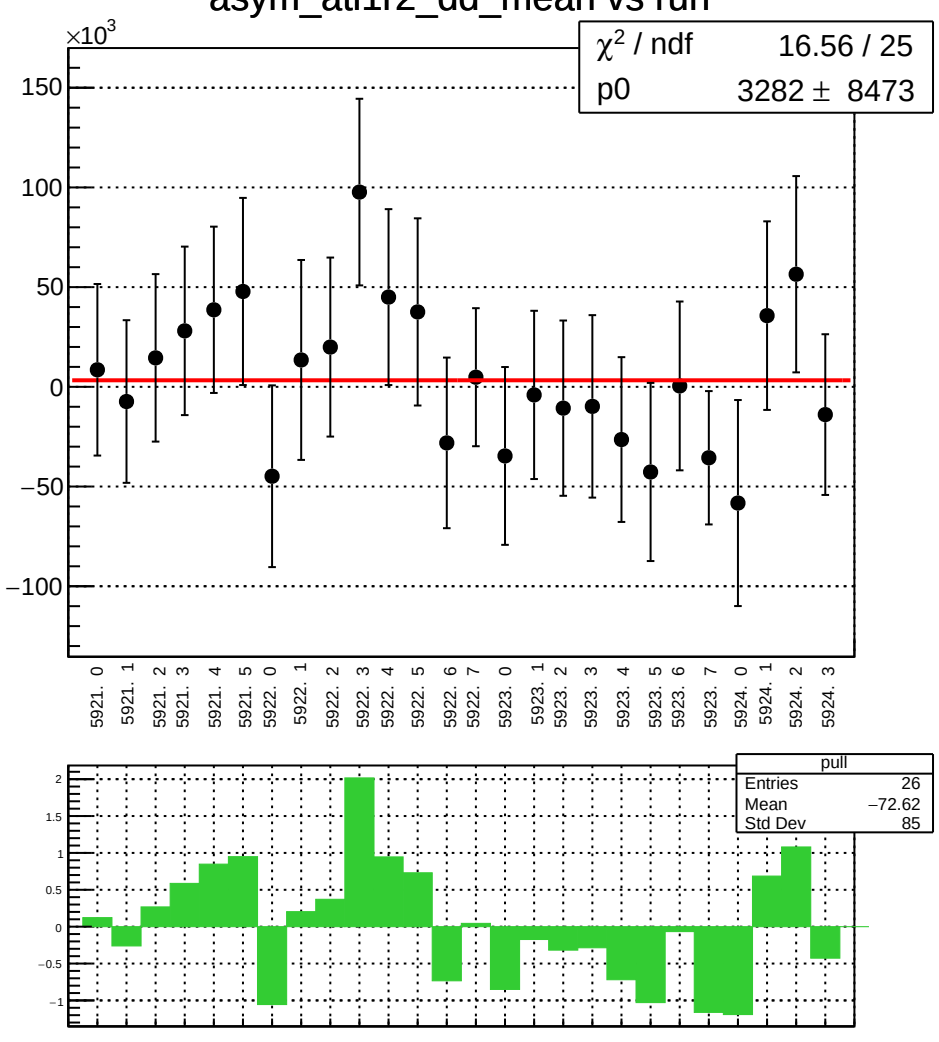

pull1D
Entries 26
Mean 0.01924
Std Dev 0.9184
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

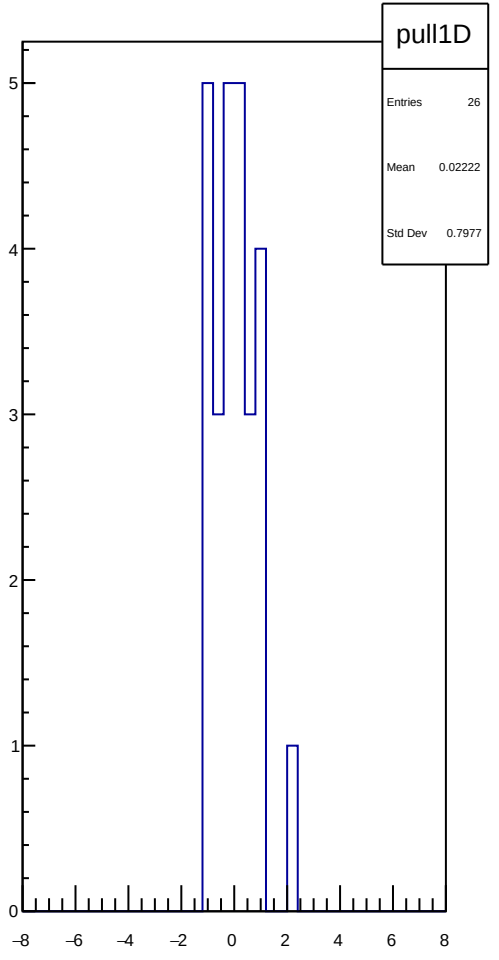

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 30.95 / 25
p0 1864 ± 2.632
1900
1880
1860
1840
1820
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

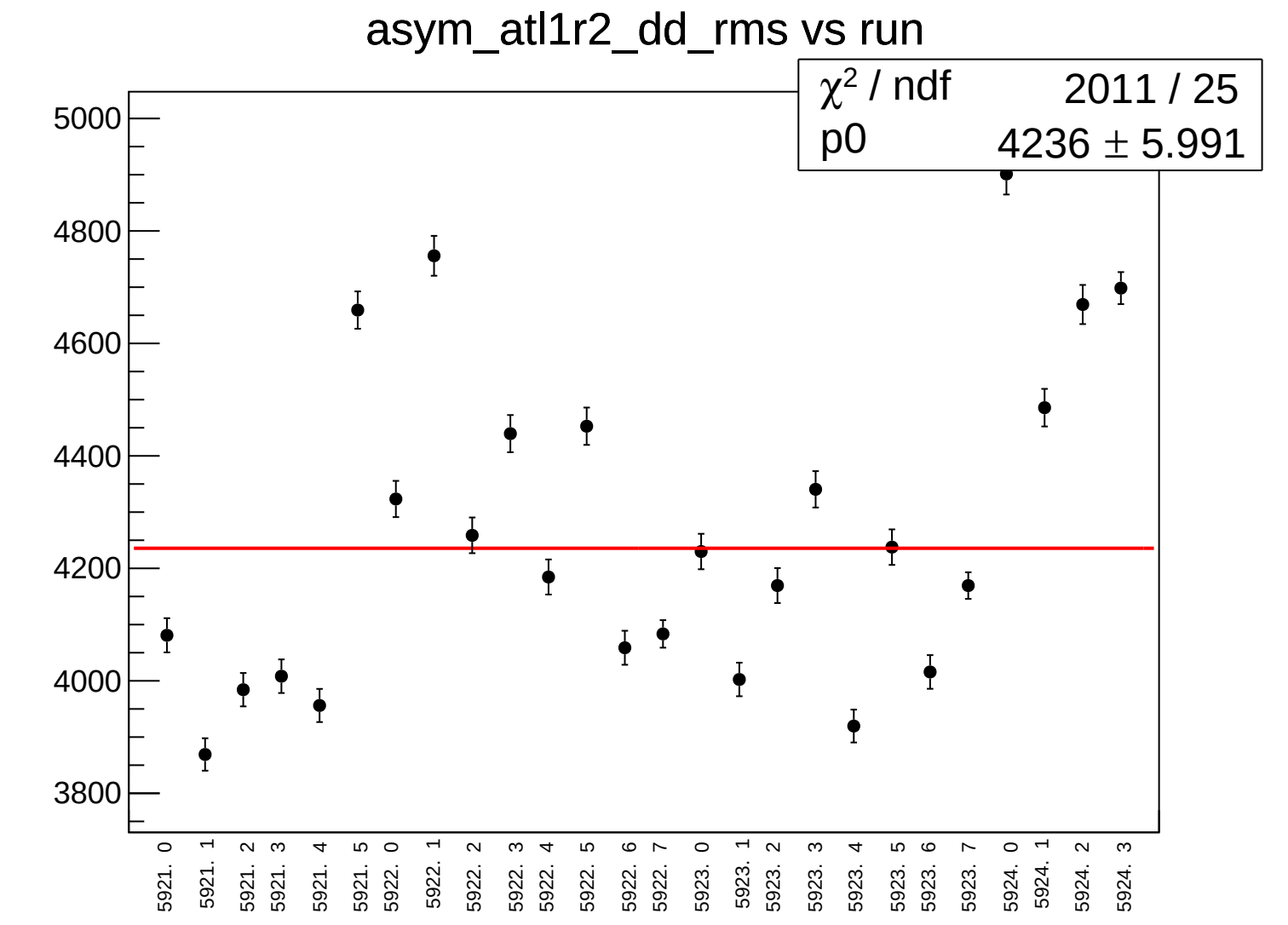

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 16.11 / 25
p0 −6344 ± 7594
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −90.4
Std Dev 107.6
1
0.5
0
−0.5
−1
−1.5
−2

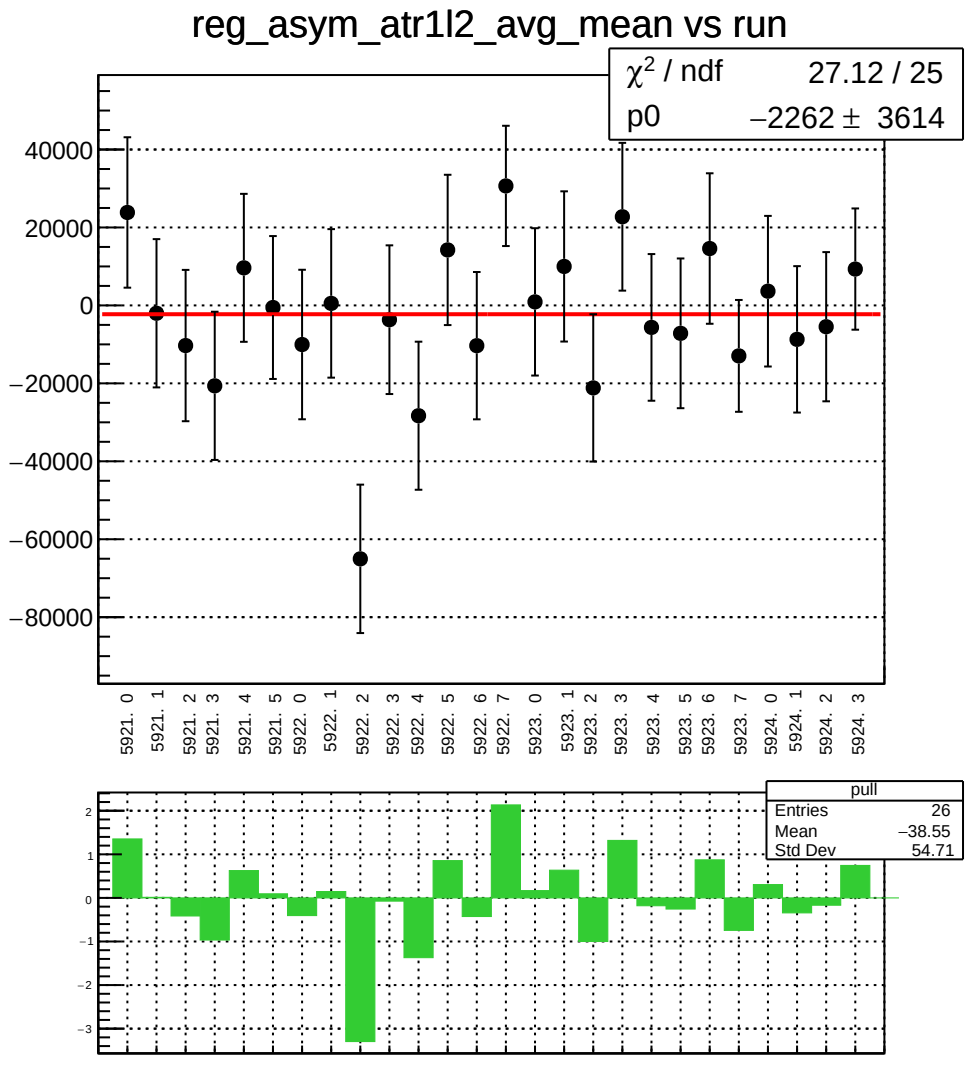

pull1D
Entries 26
Mean −0.01006
Std Dev 0.7871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

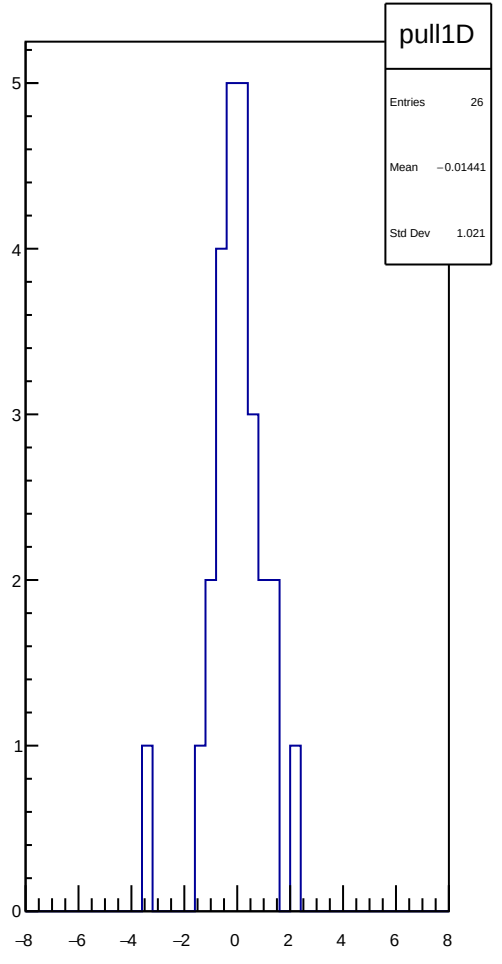

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3013 / 25
p0 3793 ± 5.37
4600
4400
4200
4000
3800
3600
3400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

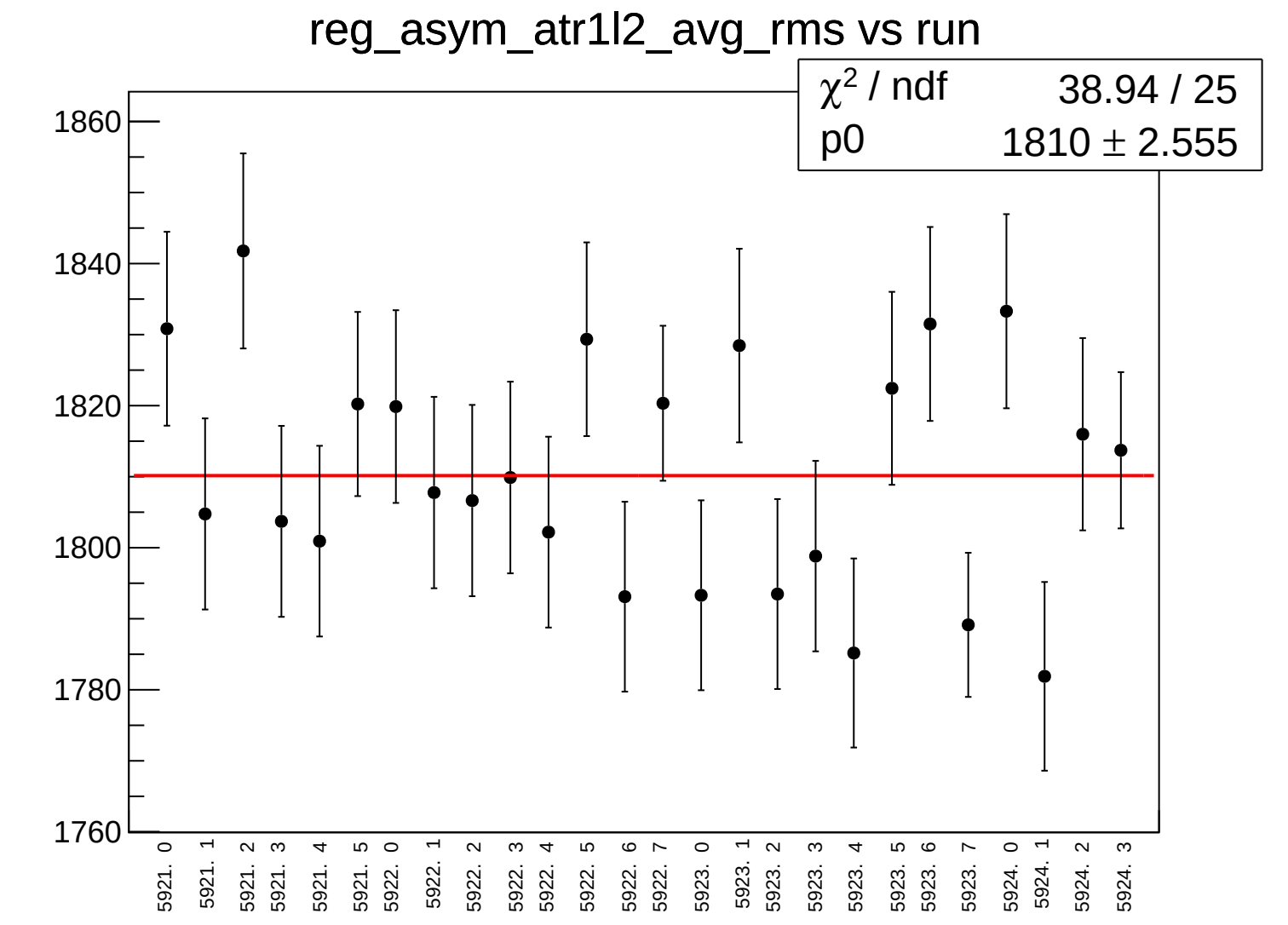

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 16.56 / 25
p0 3282 ± 8473
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −72.62
Std Dev 85
2
1.5
1
0.5
0
−0.5
−1

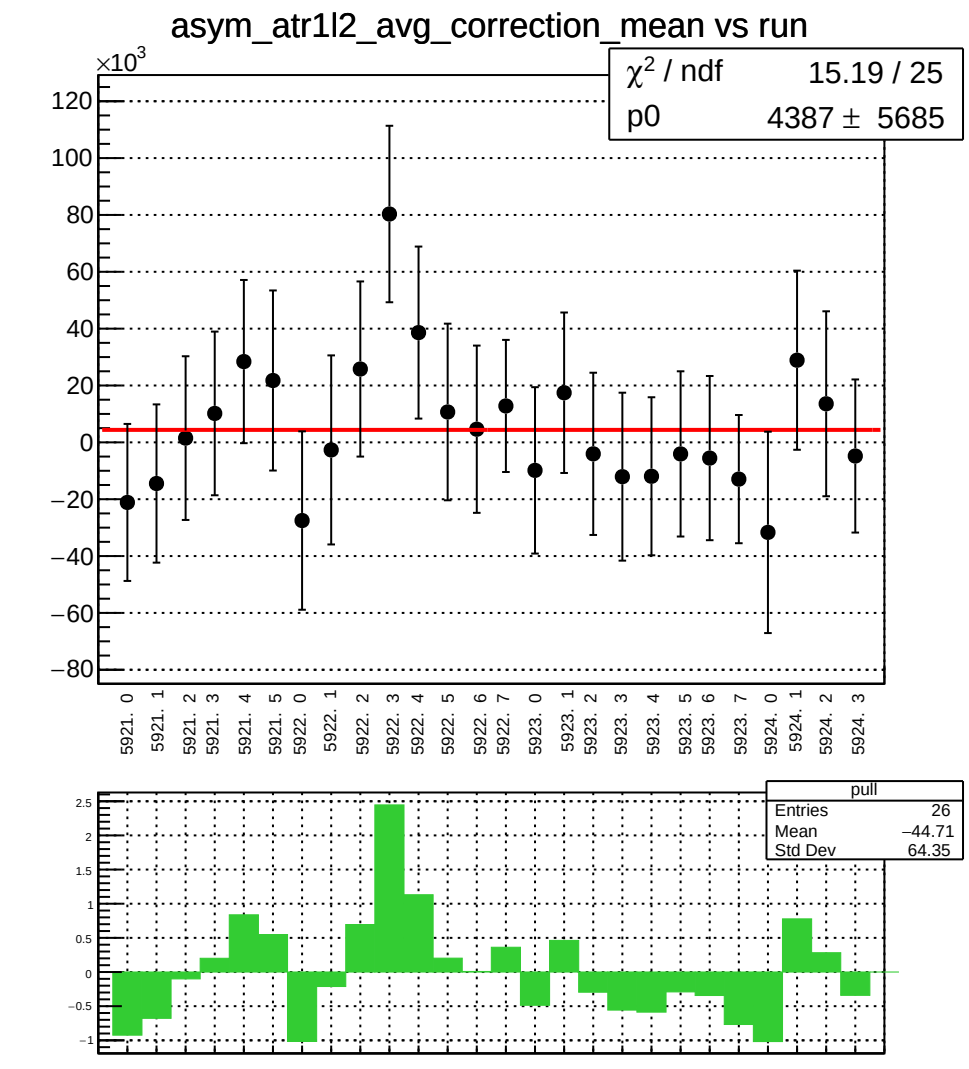

pull1D
Entries 26
Mean 0.02222
Std Dev 0.7977
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

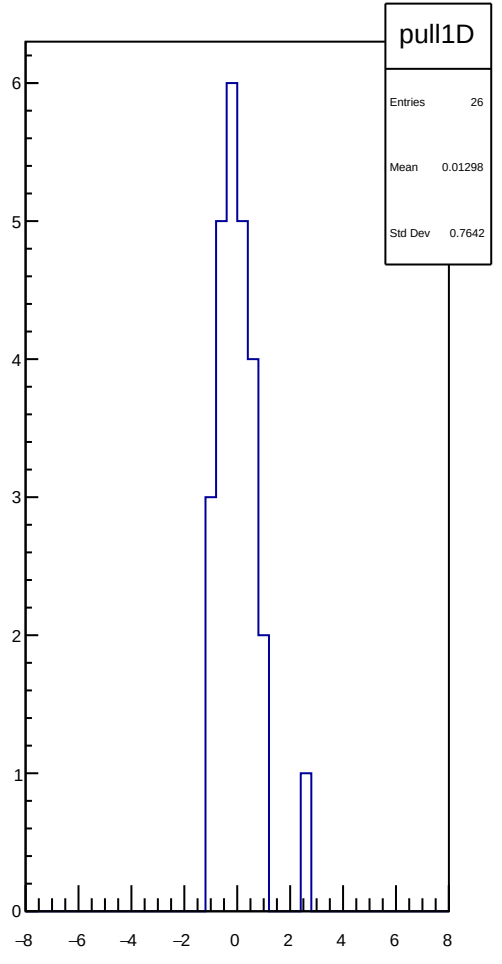

asym_atl1r2_dd_rms vs run
χ² / ndf 2011 / 25
p0 4236 ± 5.991
5000
4800
4600
4400
4200
4000
3800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

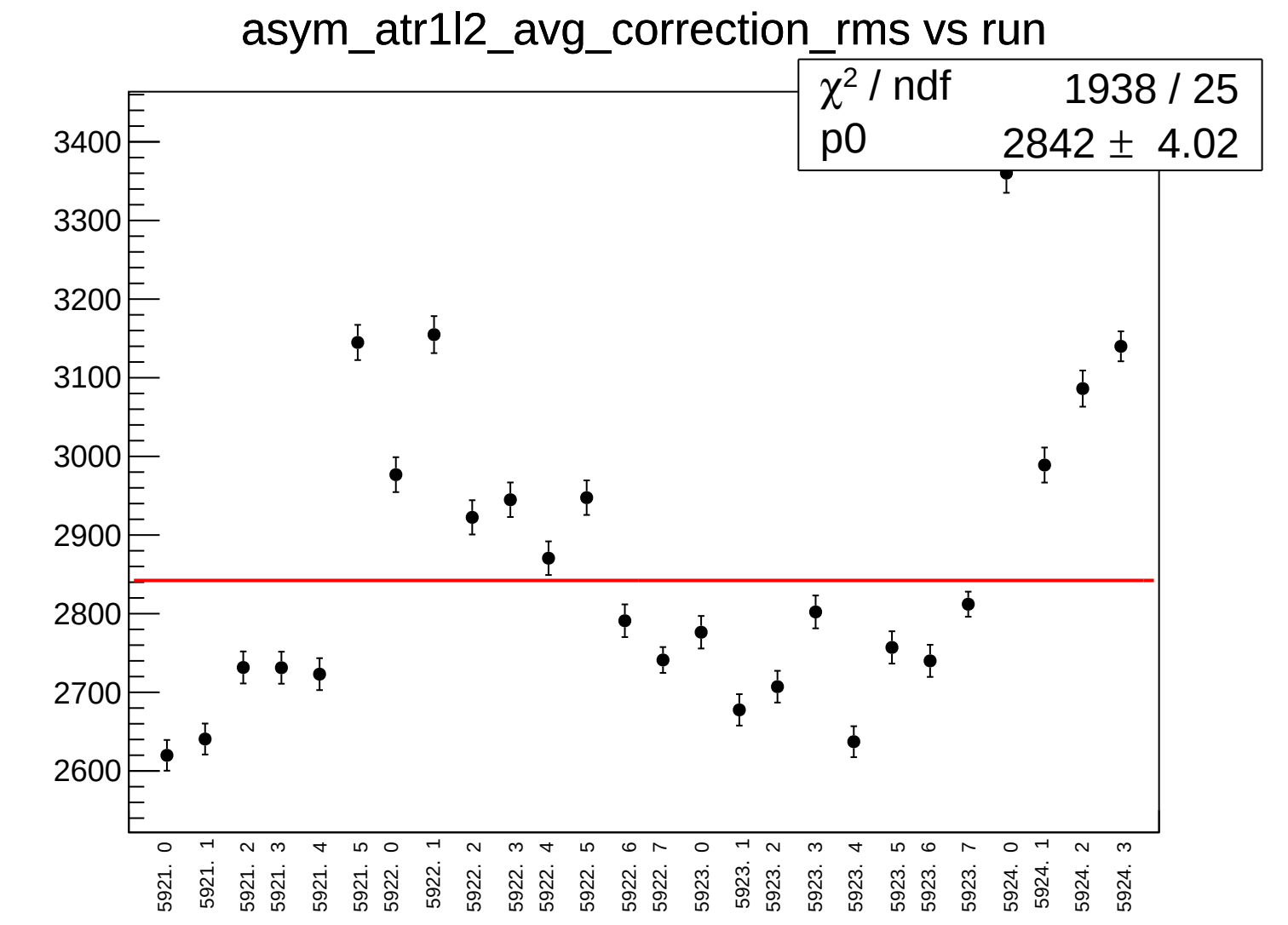

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 27.12 / 25
p0 −2262 ± 3614
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −38.55
Std Dev 54.71
2
1
0
−1
−2
−3

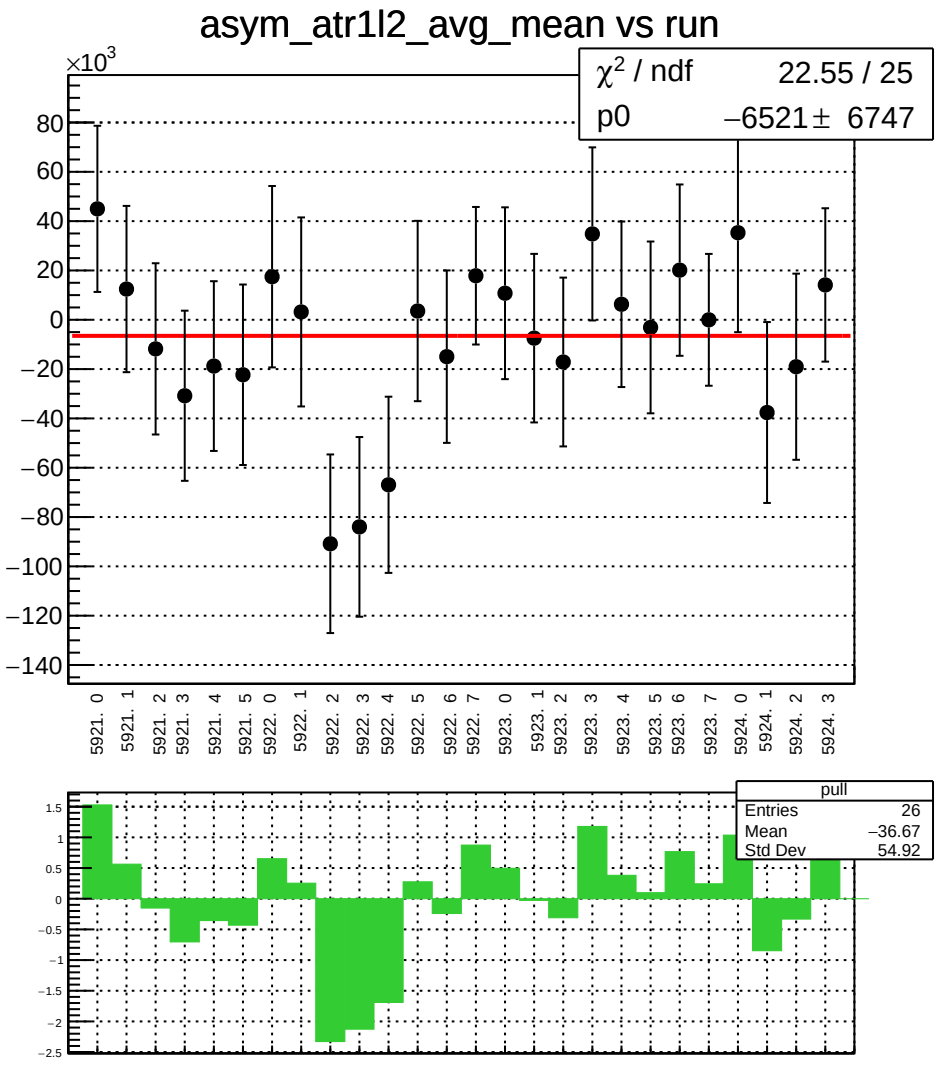

pull1D
Entries 26
Mean −0.01441
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

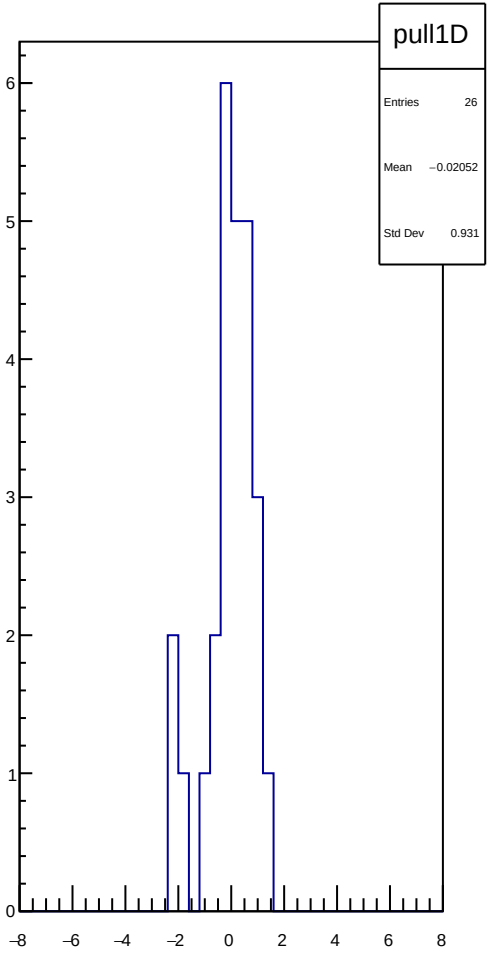

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 38.94 / 25
p0 1810 ± 2.555
1860
1840
1820
1800
1780
1760
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

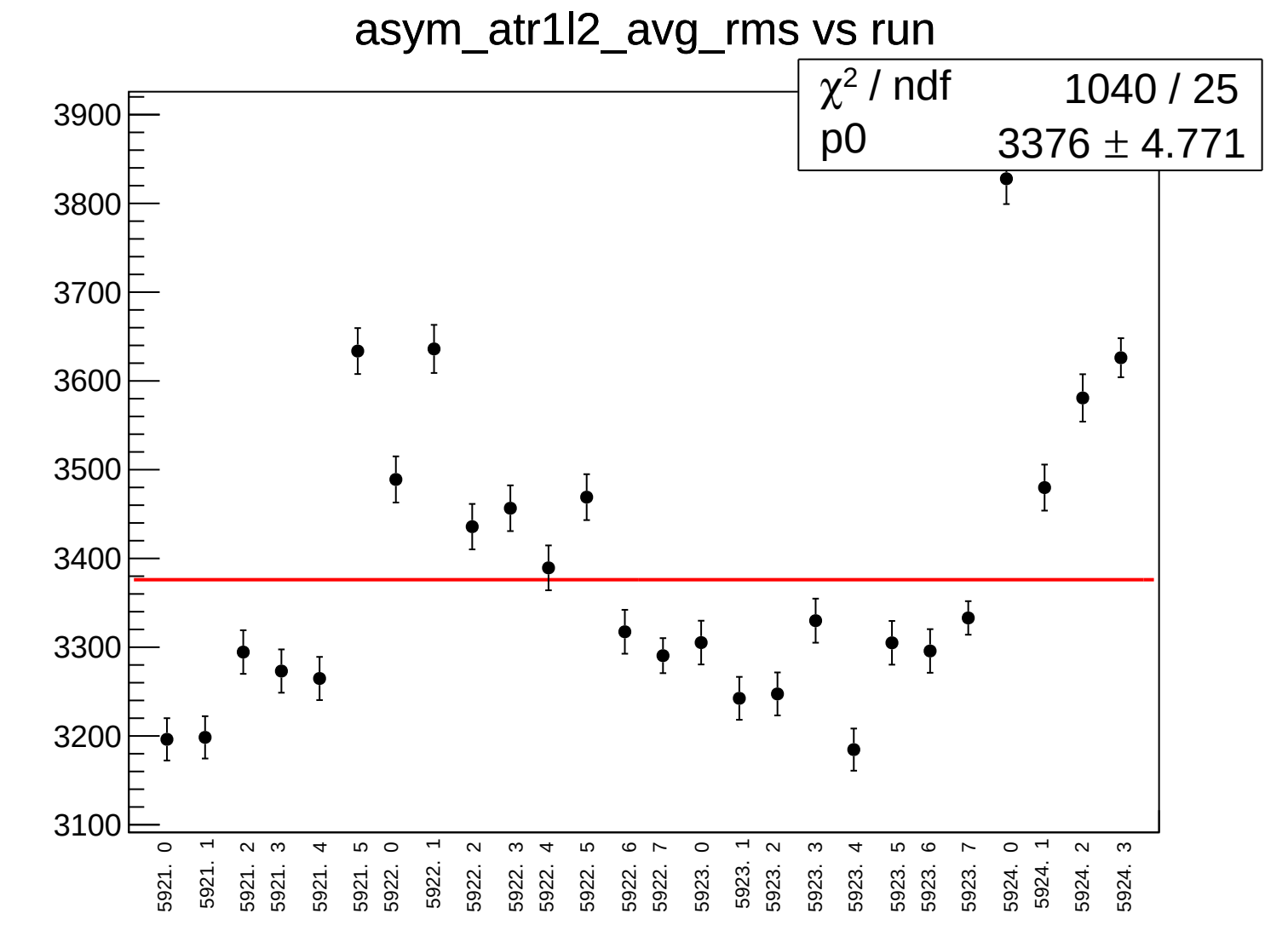

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 15.19 / 25
p0 4387 ± 5685
120
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −44.71
Std Dev 64.35
2.5
2
1.5
1
0.5
0
−0.5
−1

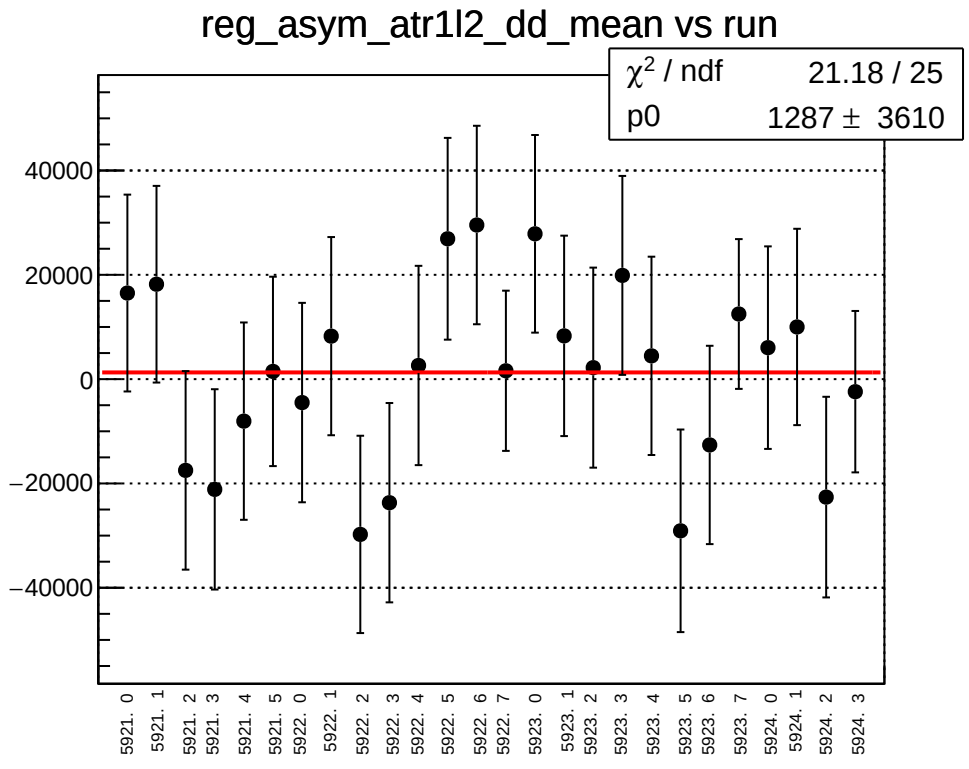

pull1D
Entries 26
Mean 0.01298
Std Dev 0.7642
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

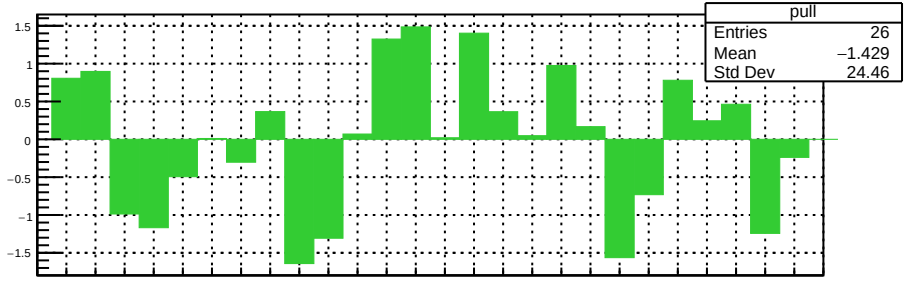

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1938 / 25
p0 2842 ± 4.02
3400
3300
3200
3100
3000
2900
2800
2700
2600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

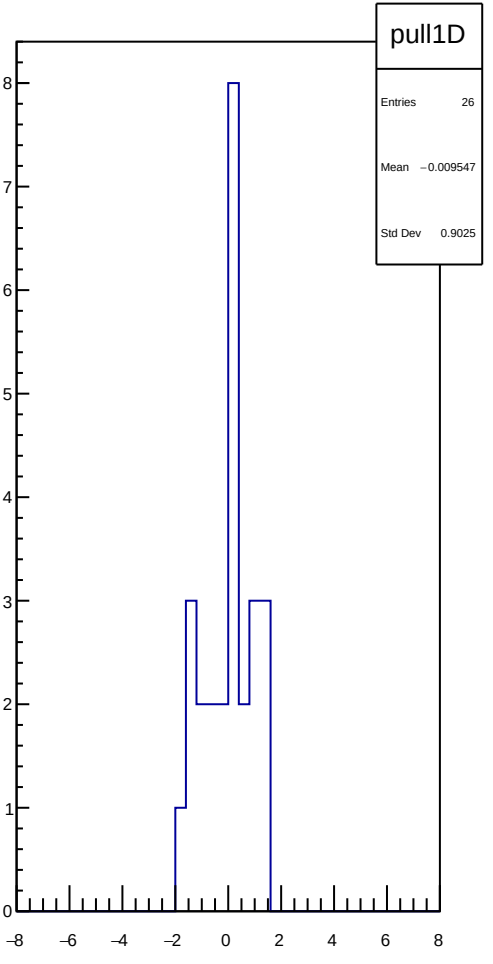

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 22.55 / 25
p0 −6521 ± 6747
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −36.67
Std Dev 54.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

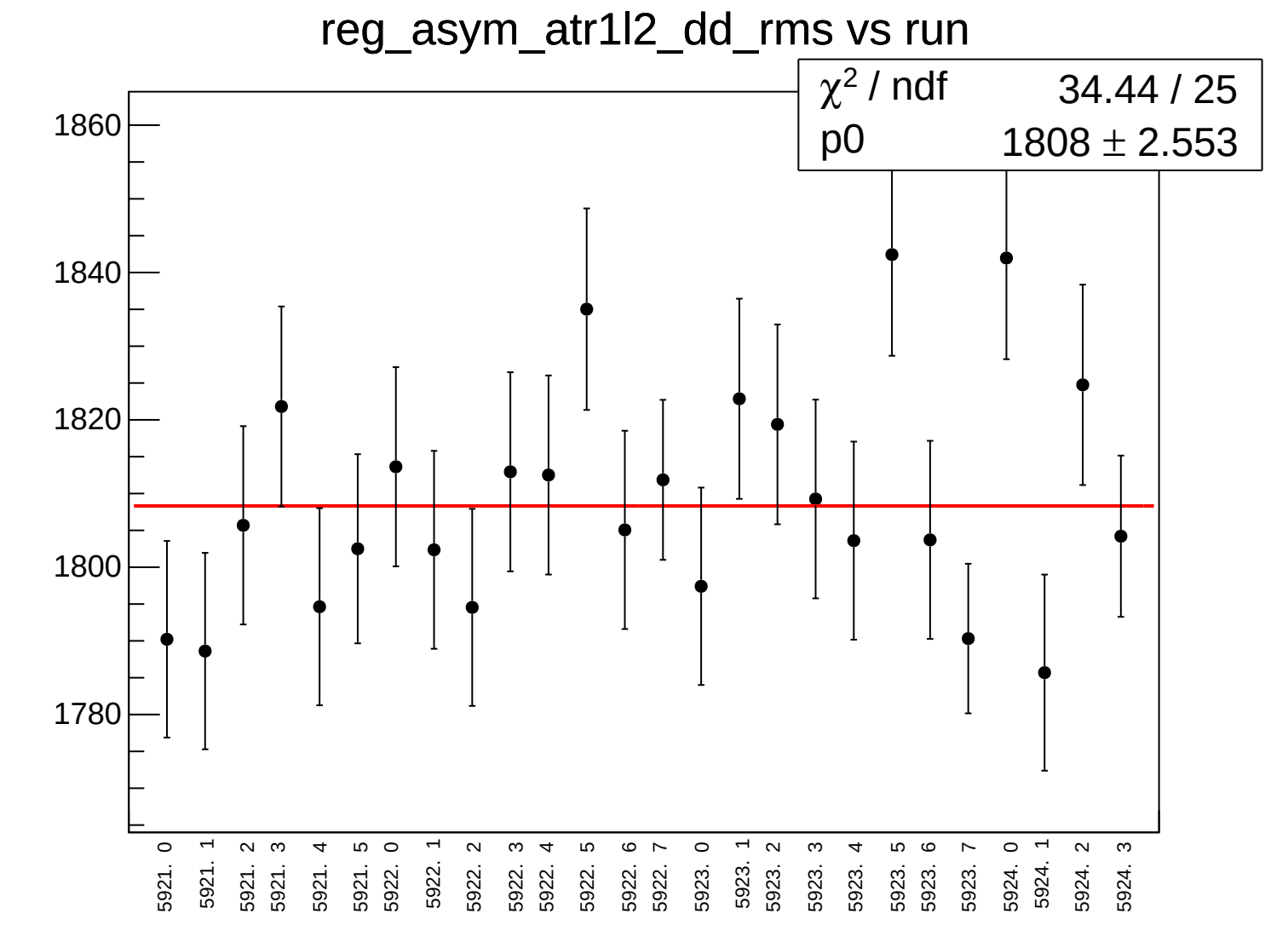

pull1D
Entries 26
Mean −0.02052
Std Dev 0.931
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

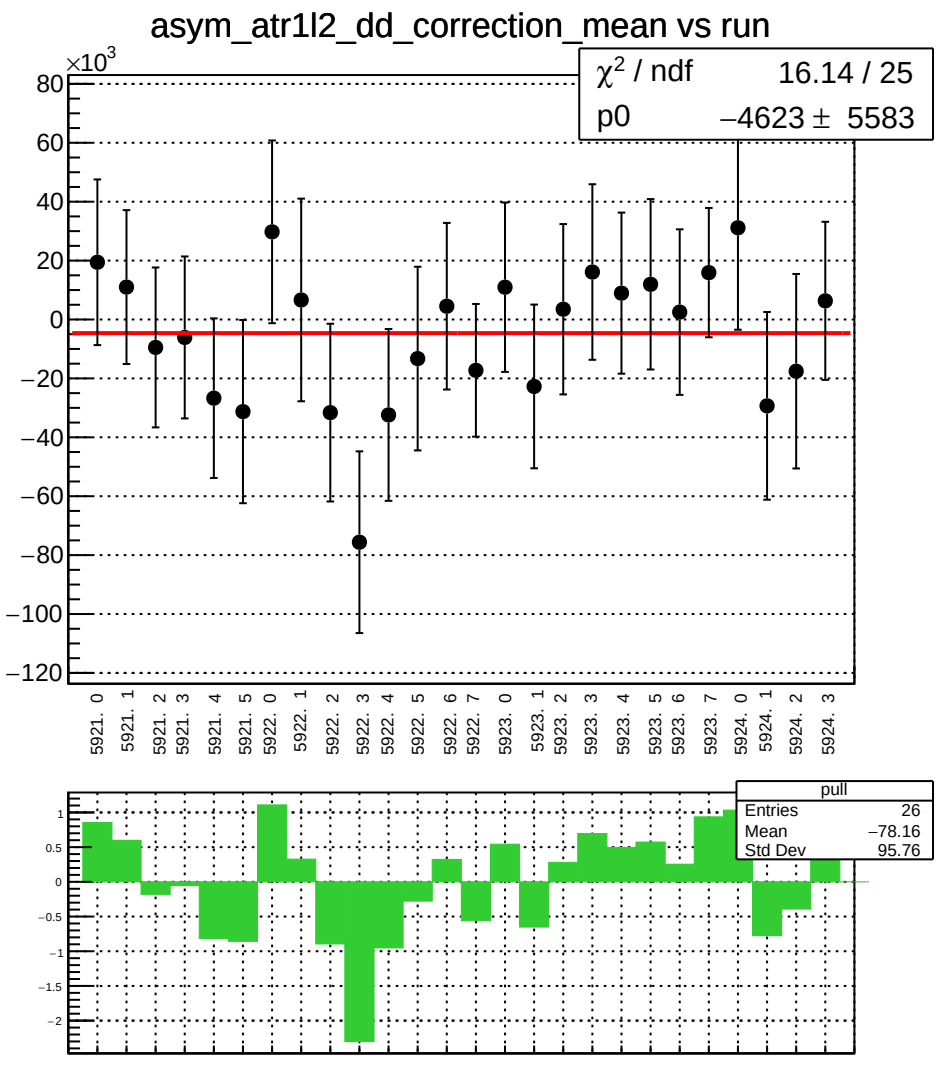

asym_atr1l2_avg_rms vs run
χ² / ndf 1040 / 25
p0 3376 ± 4.771
3900
3800
3700
3600
3500
3400
3300
3200
3100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

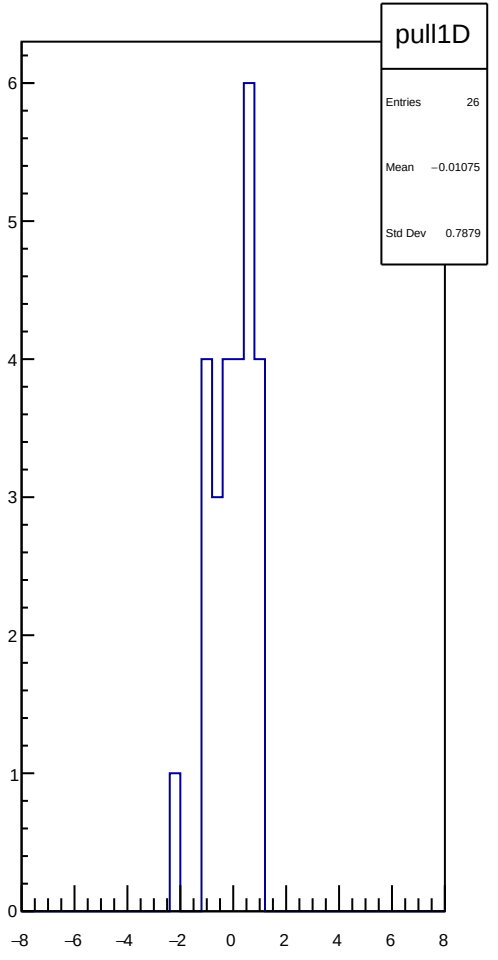

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 21.18 / 25
p0 1287 ± 3610
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

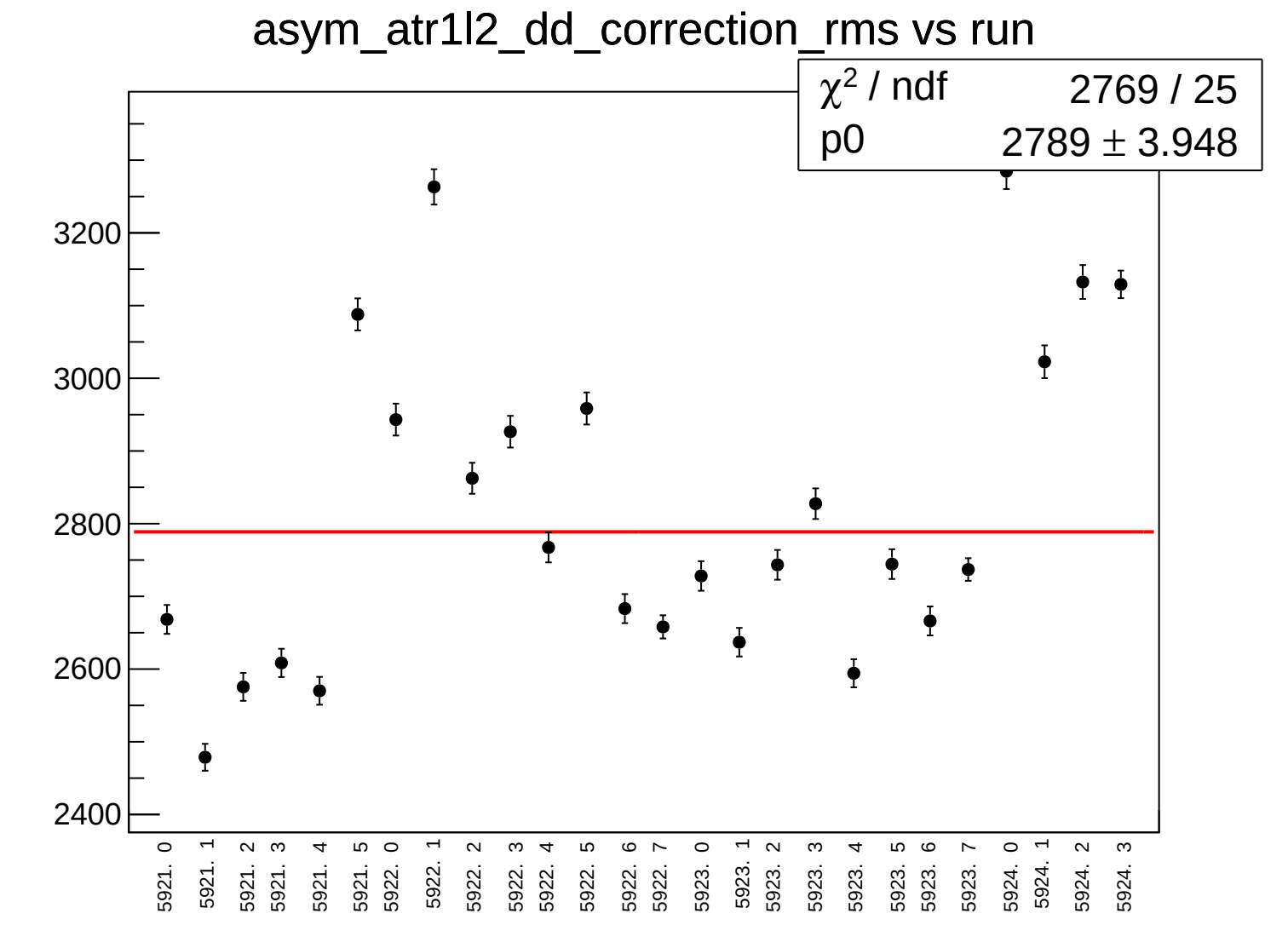

pull
Entries 26
Mean −1.429
Std Dev 24.46
1.5
1
0.5
0
−0.5
−1
−1.5

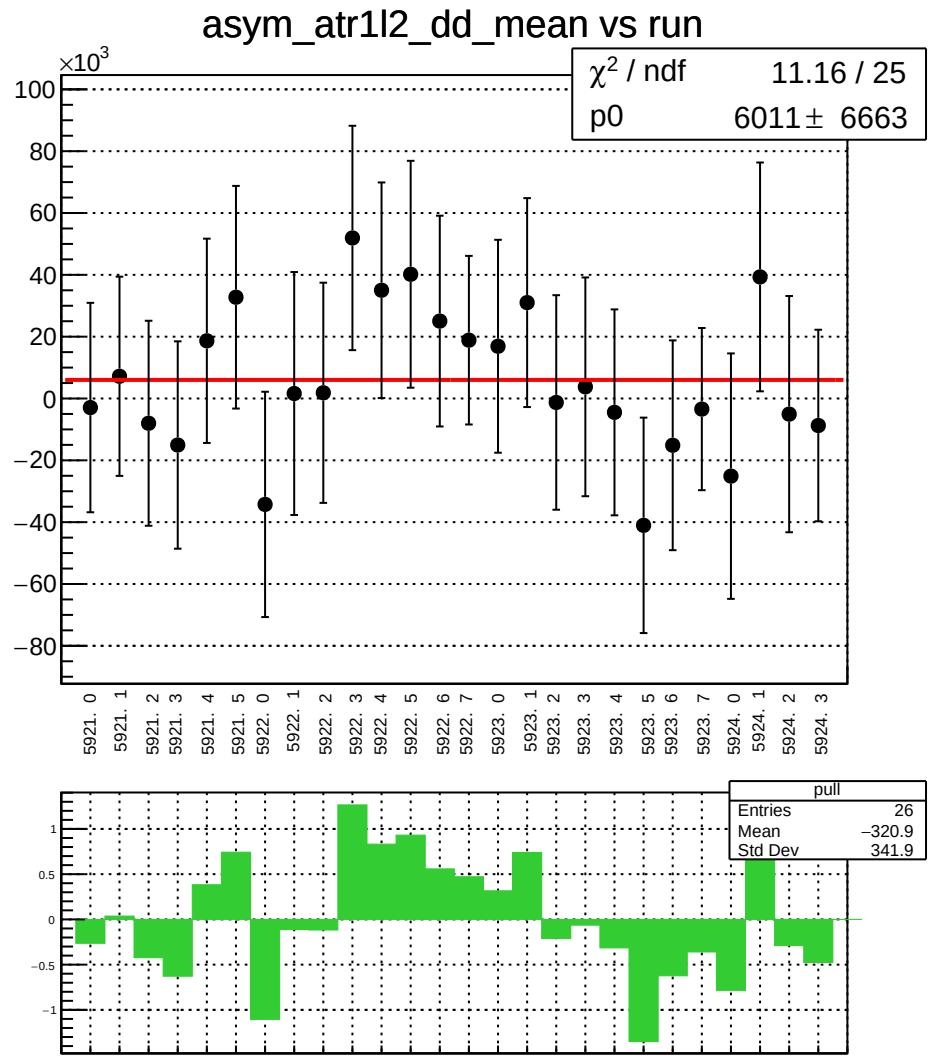

pull1D
Entries 26
Mean −0.009547
Std Dev 0.9025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

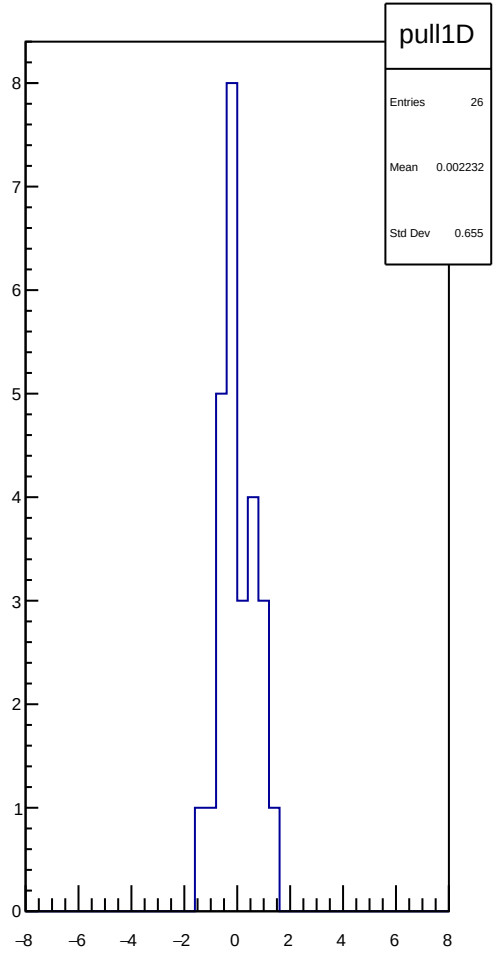

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 34.44 / 25
p0 1808 ± 2.553
1860
1840
1820
1800
1780
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

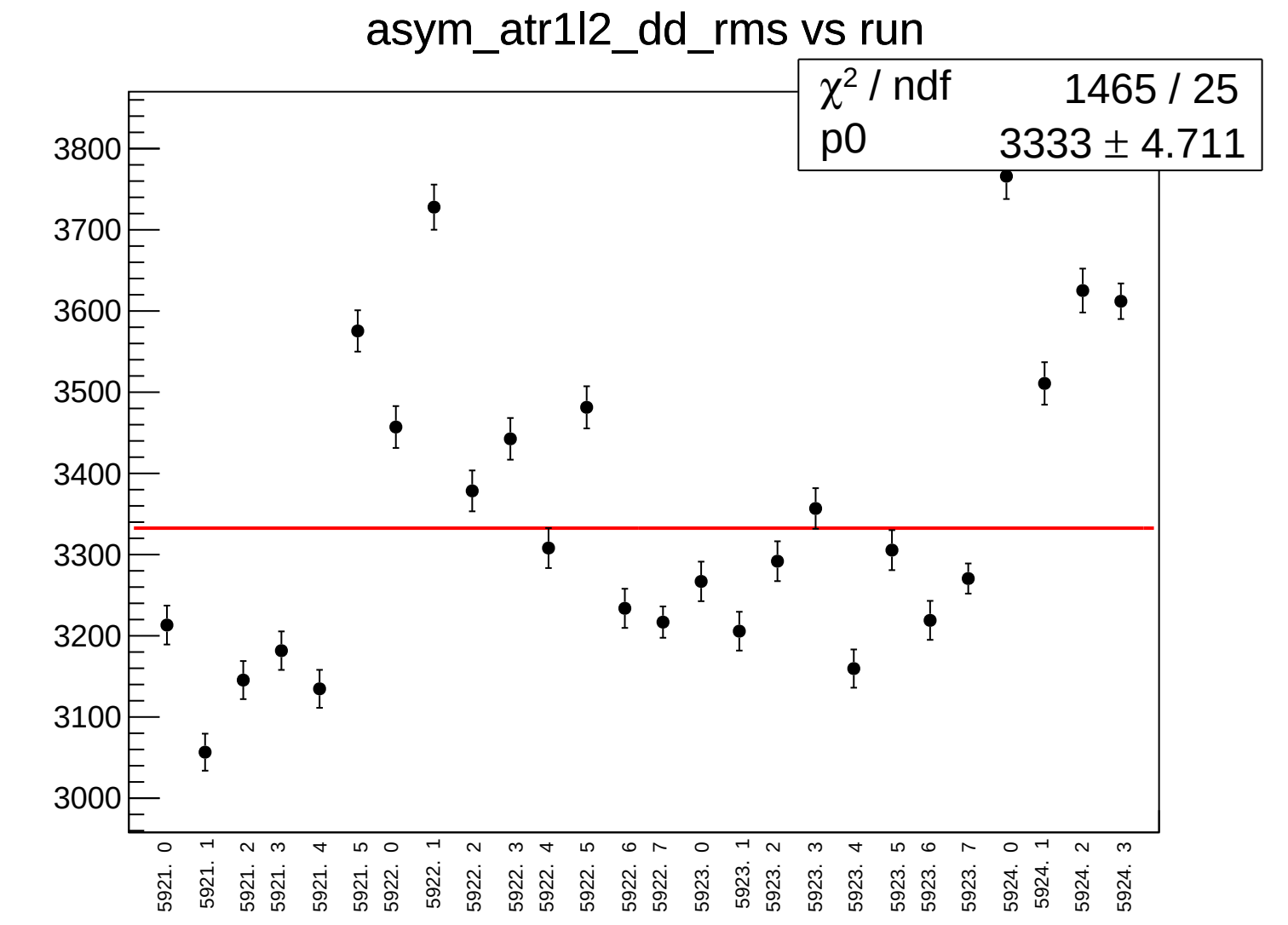

asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 16.14 / 25
p0 −4623 ± 5583
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −78.16
Std Dev 95.76
1
0.5
0
−0.5
−1
−1.5
−2

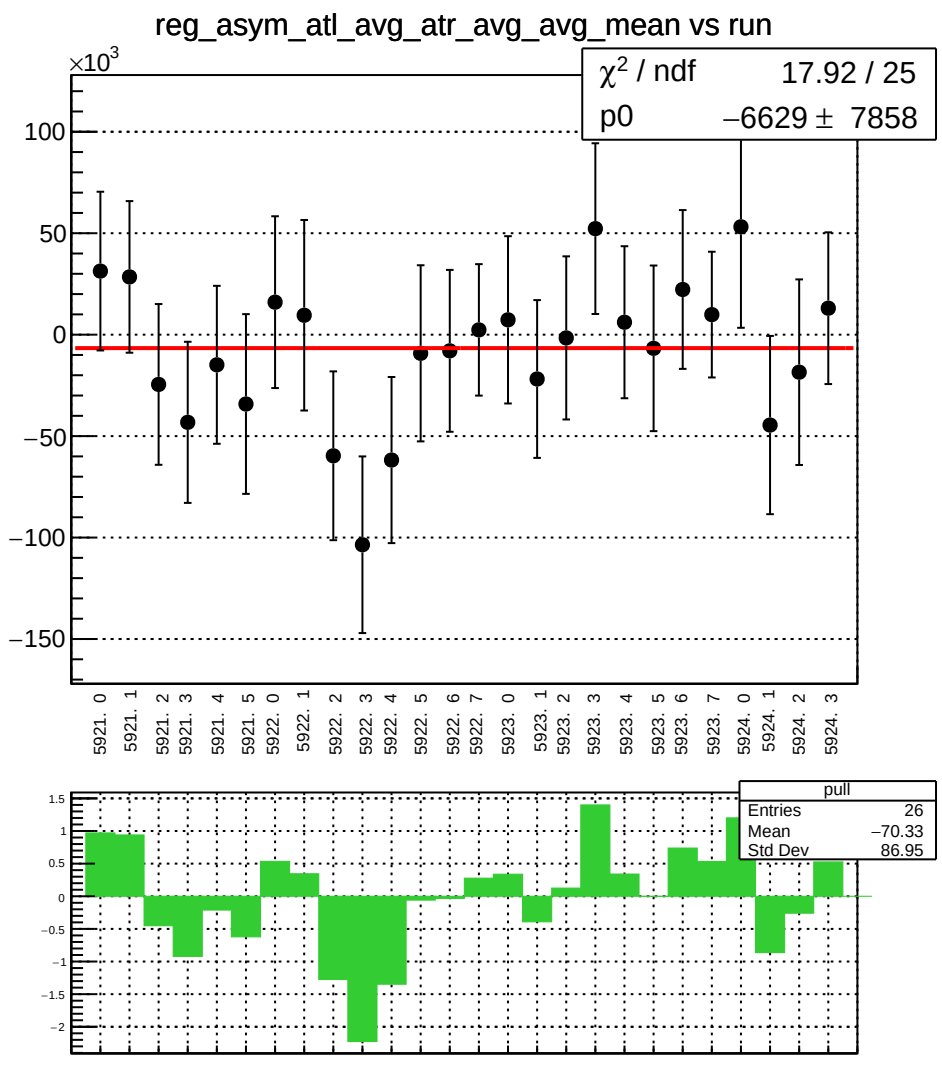

pull1D
Entries 26
Mean −0.01075
Std Dev 0.7879
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

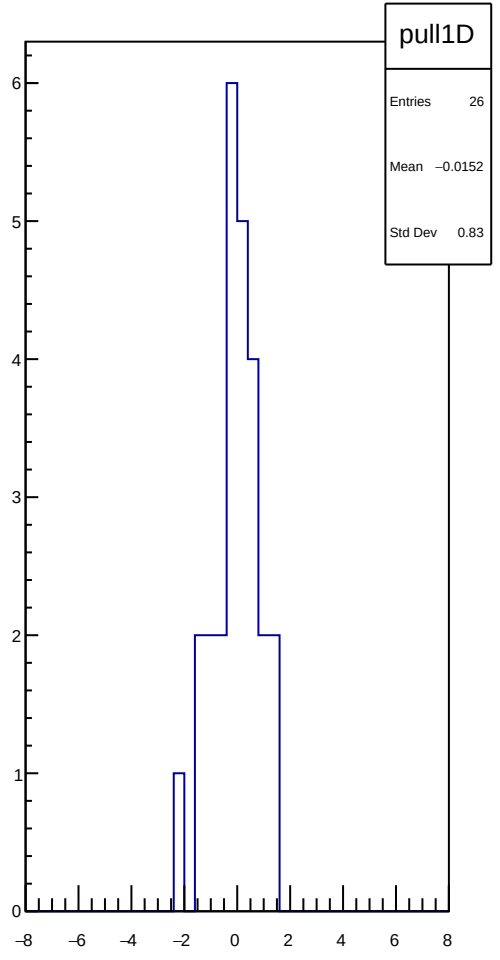

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2769 / 25
p0 2789 ± 3.948
3200
3000
2800
2600
2400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

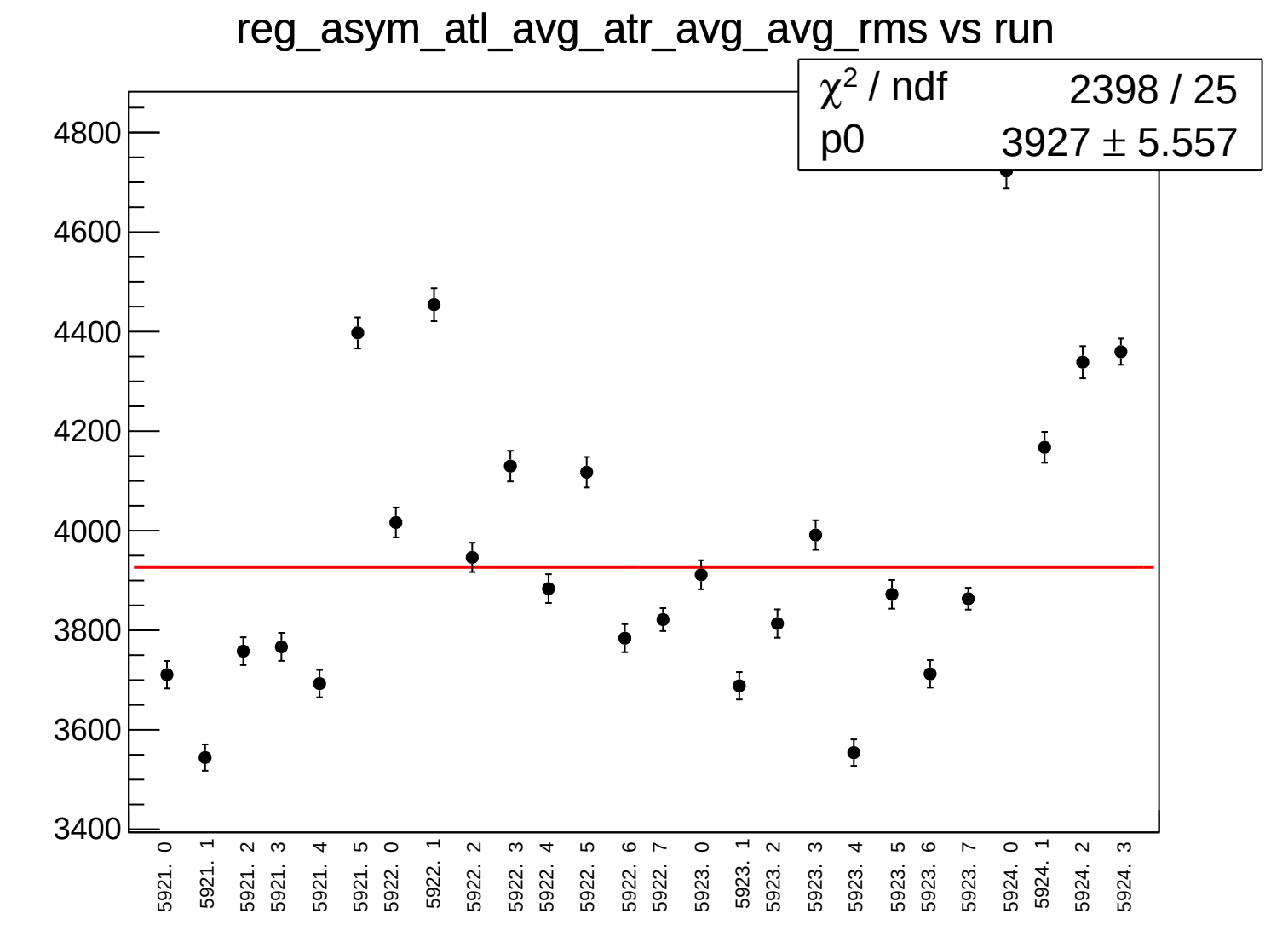

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 11.16 / 25
p0 6011 ± 6663
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −320.9
Std Dev 341.9
1
0.5
0
−0.5
−1

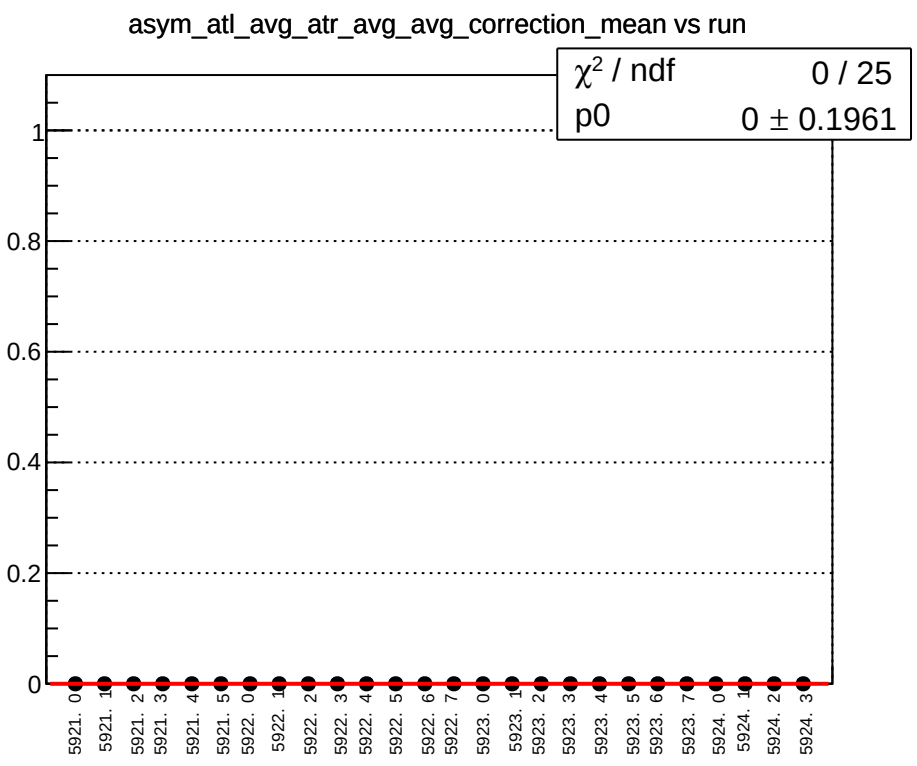

pull1D
Entries 26
Mean 0.002232
Std Dev 0.655
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

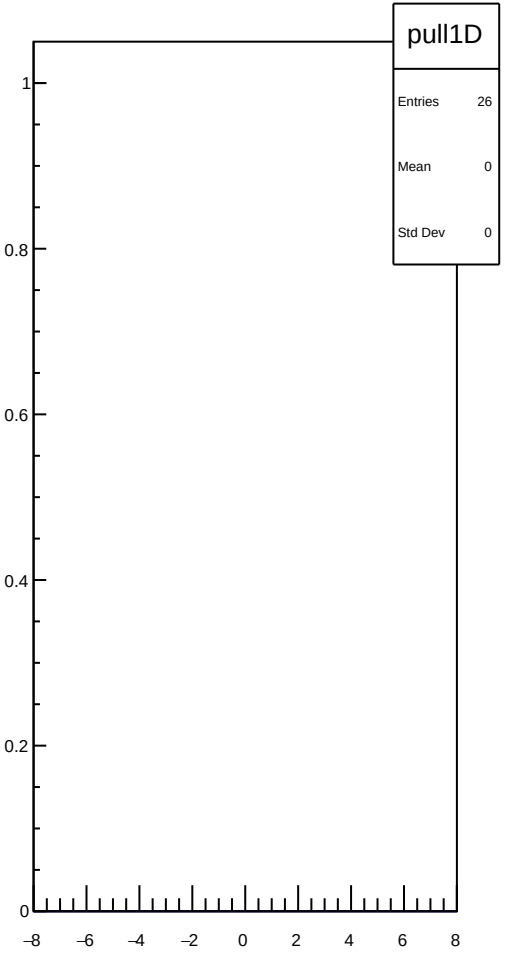

asym_atr1l2_dd_rms vs run
χ² / ndf 1465 / 25
p0 3333 ± 4.711
3800
3700
3600
3500
3400
3300
3200
3100
3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

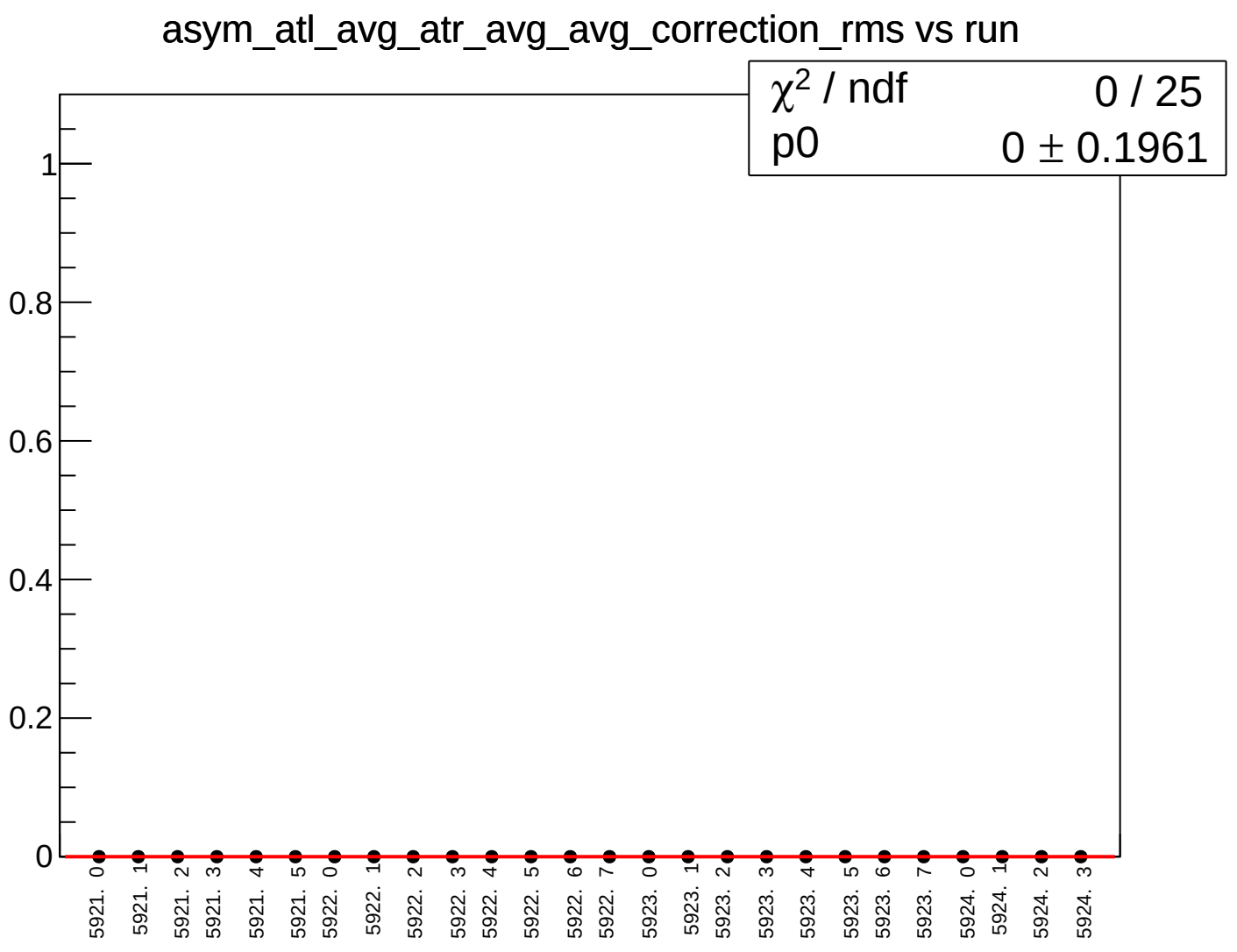

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 17.92 / 25
p0 −6629 ± 7858
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −70.33
Std Dev 86.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2

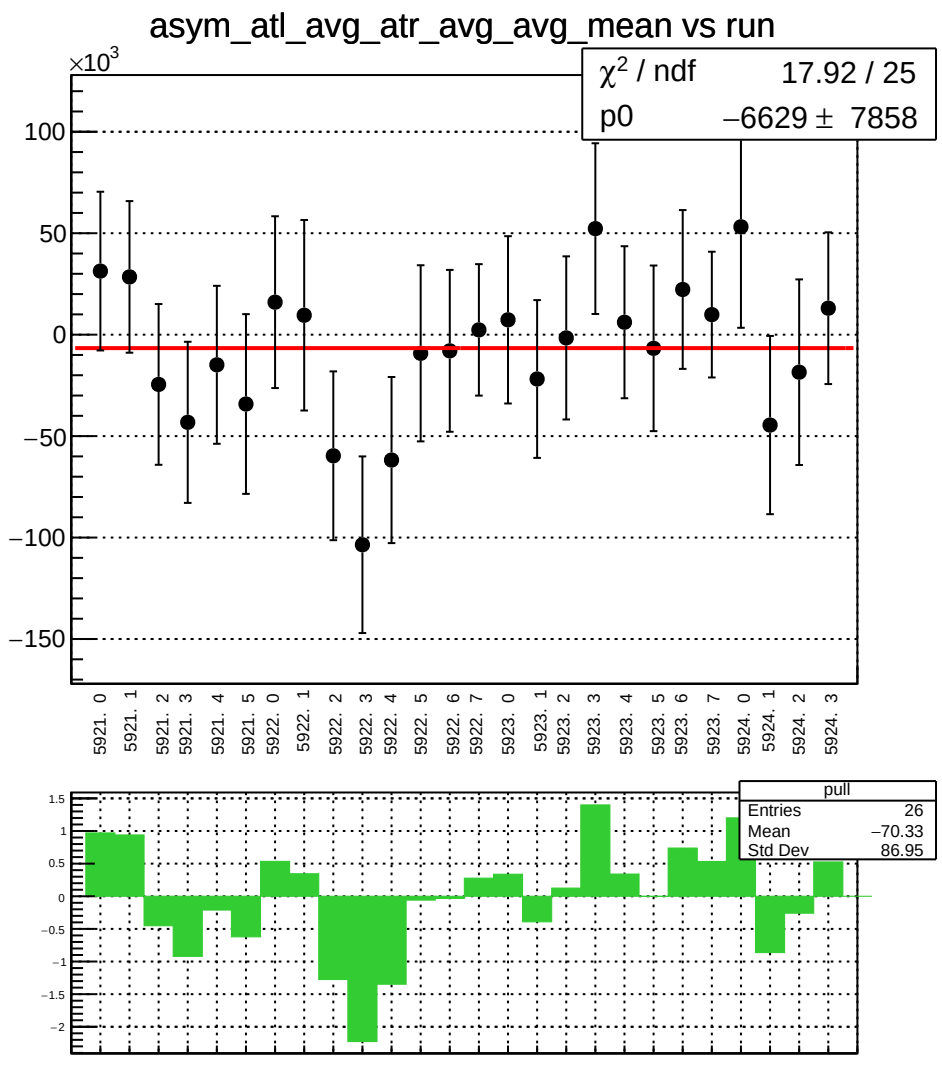

pull1D
Entries 26
Mean −0.0152
Std Dev 0.83
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

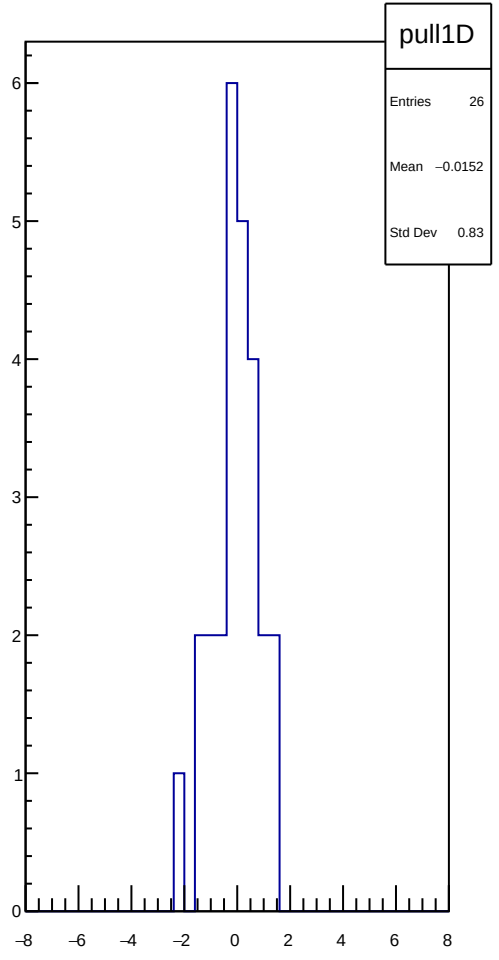

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2398 / 25
p0 3927 ± 5.557
4800
4600
4400
4200
4000
3800
3600
3400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

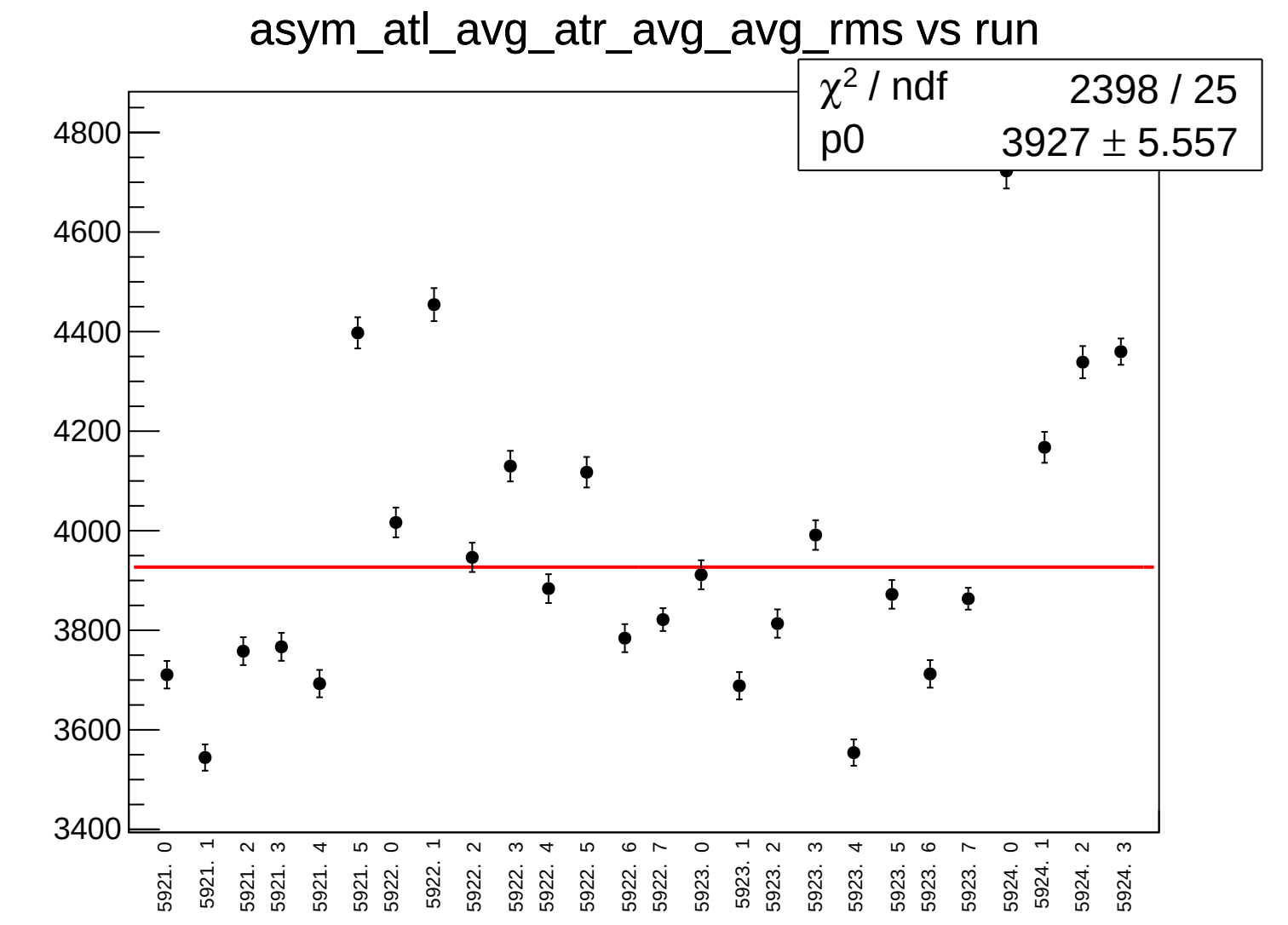

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

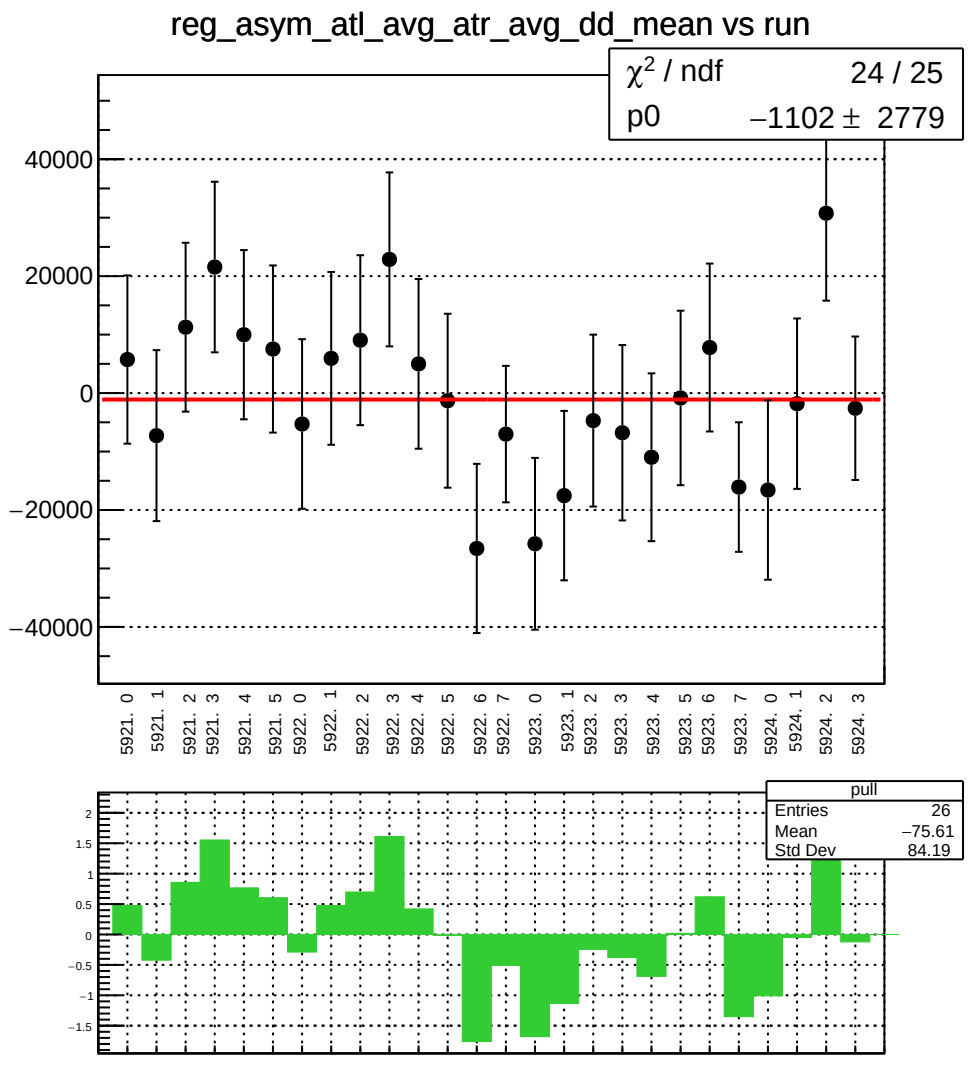

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

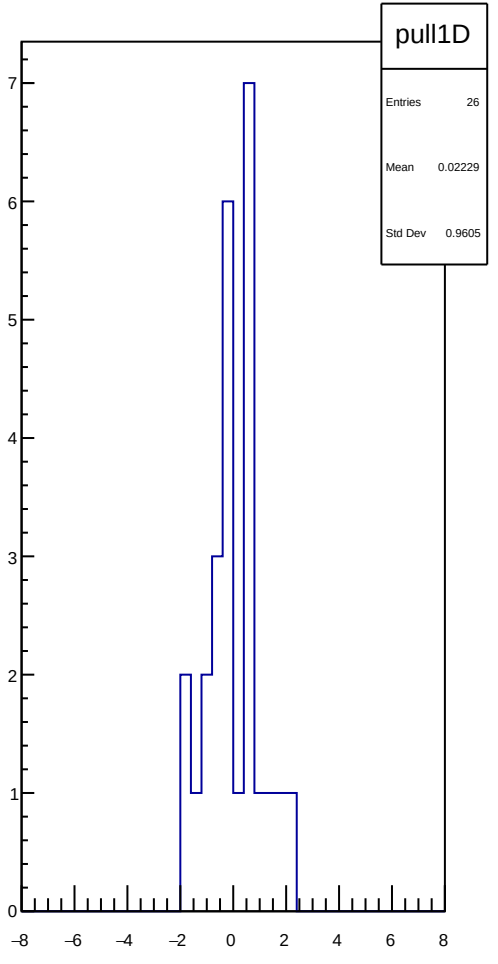

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

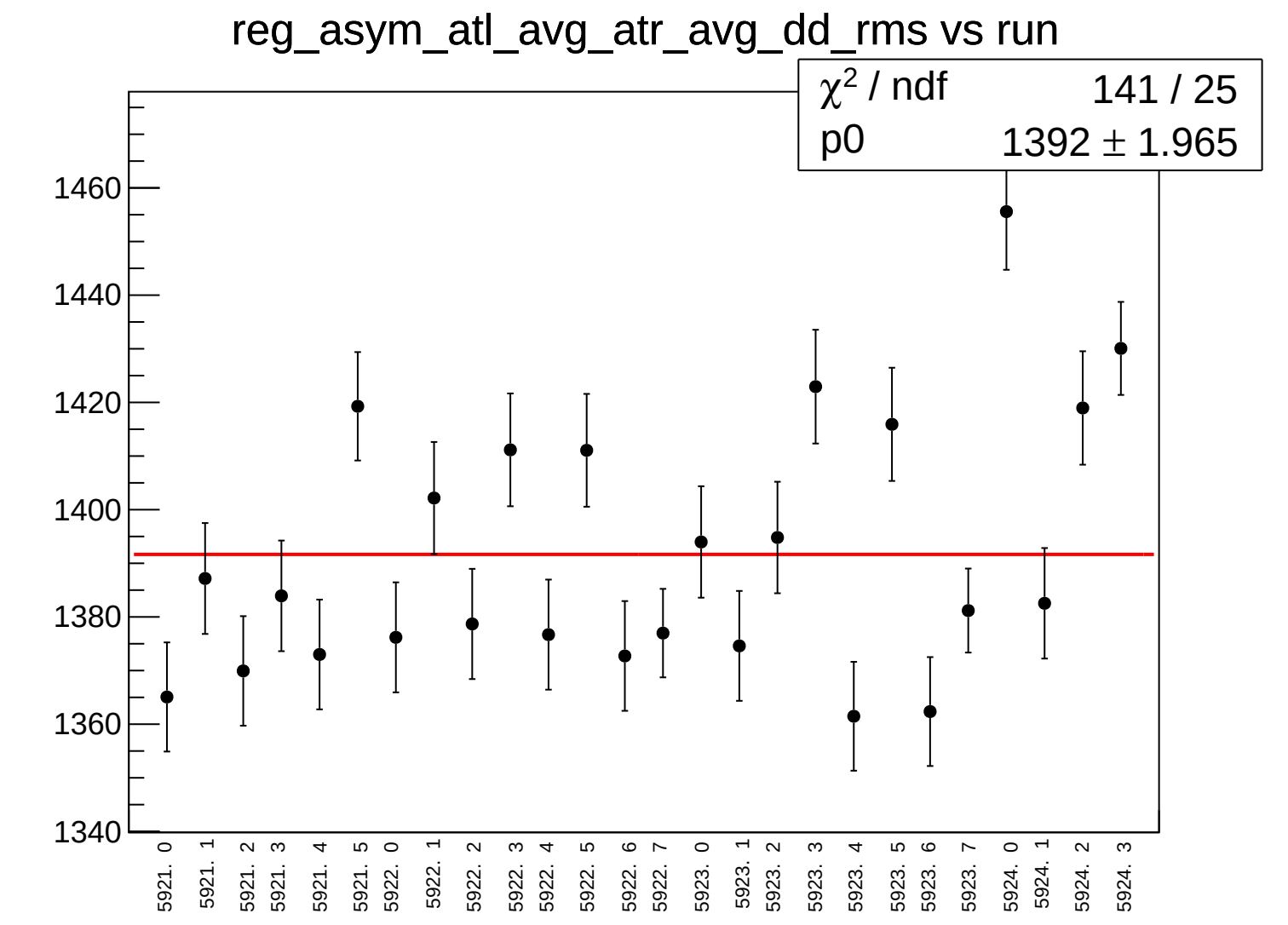

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 17.92 / 25
p0 −6629 ± 7858
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −70.33
Std Dev 86.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2

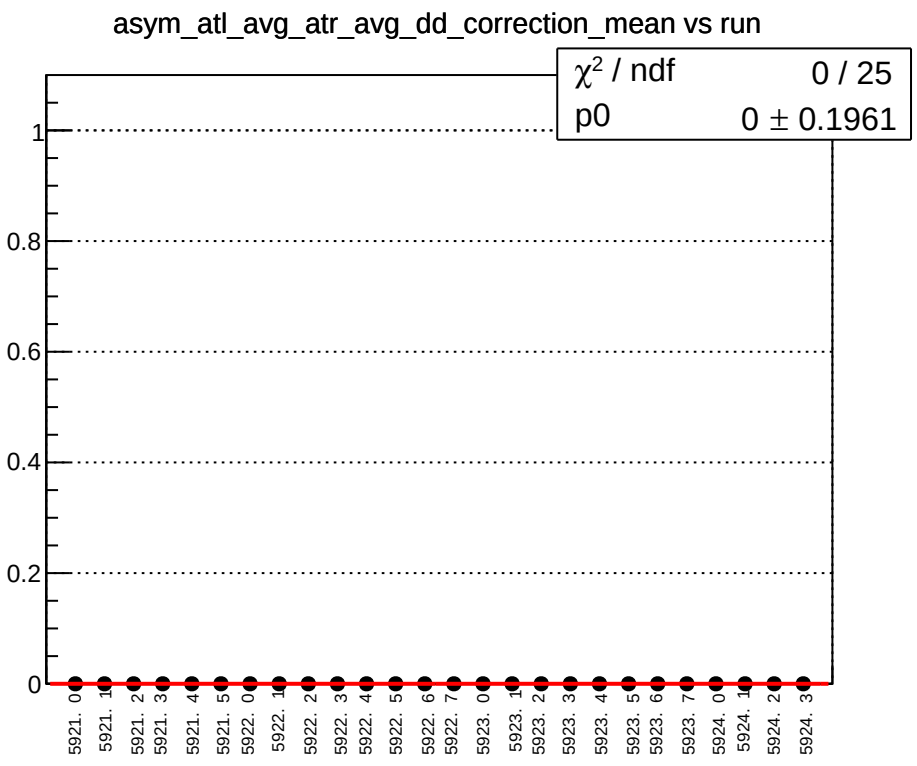

pull1D
Entries 26
Mean −0.0152
Std Dev 0.83
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

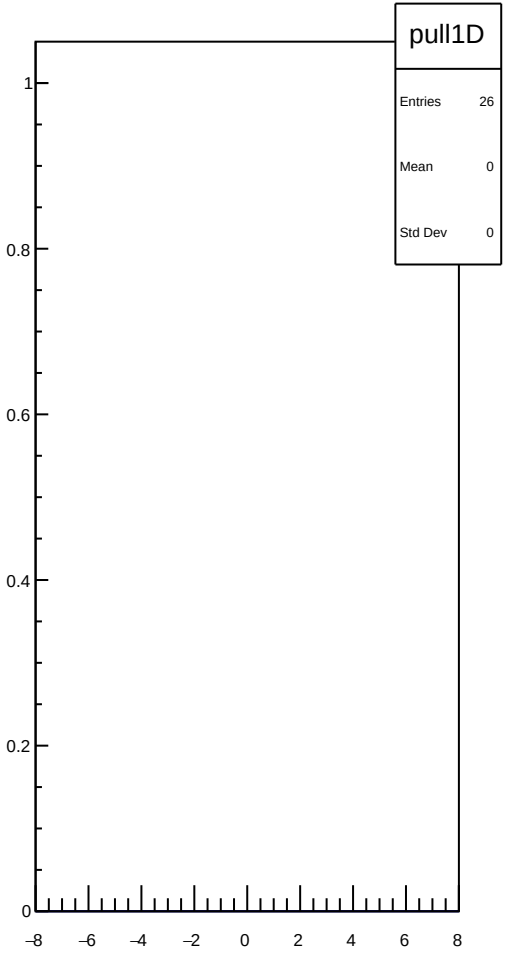

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2398 / 25
p0 3927 ± 5.557
4800
4600
4400
4200
4000
3800
3600
3400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

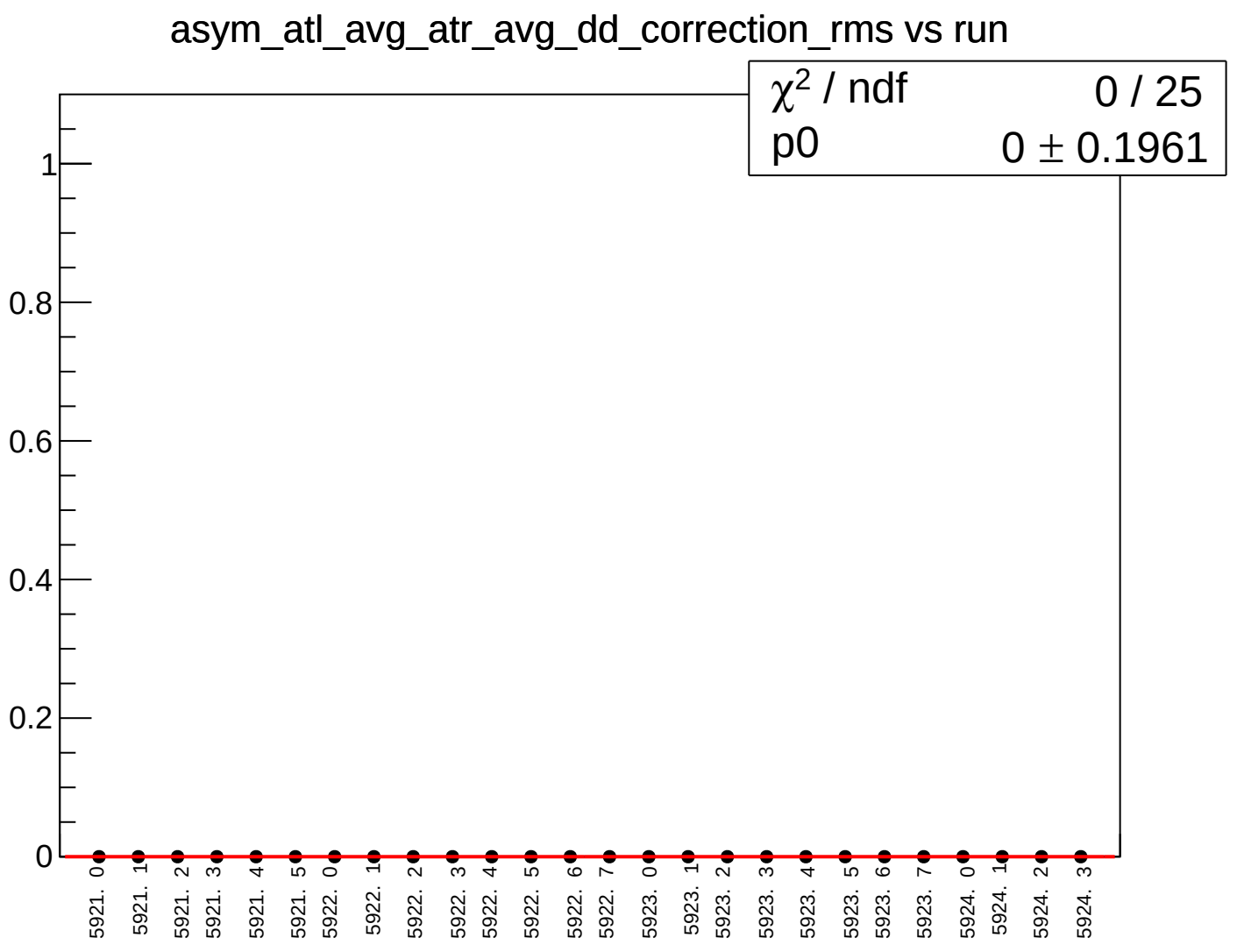

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 24 / 25
p0 −1102 ± 2779
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −75.61
Std Dev 84.19
2
1.5
1
0.5
0
−0.5
−1
−1.5

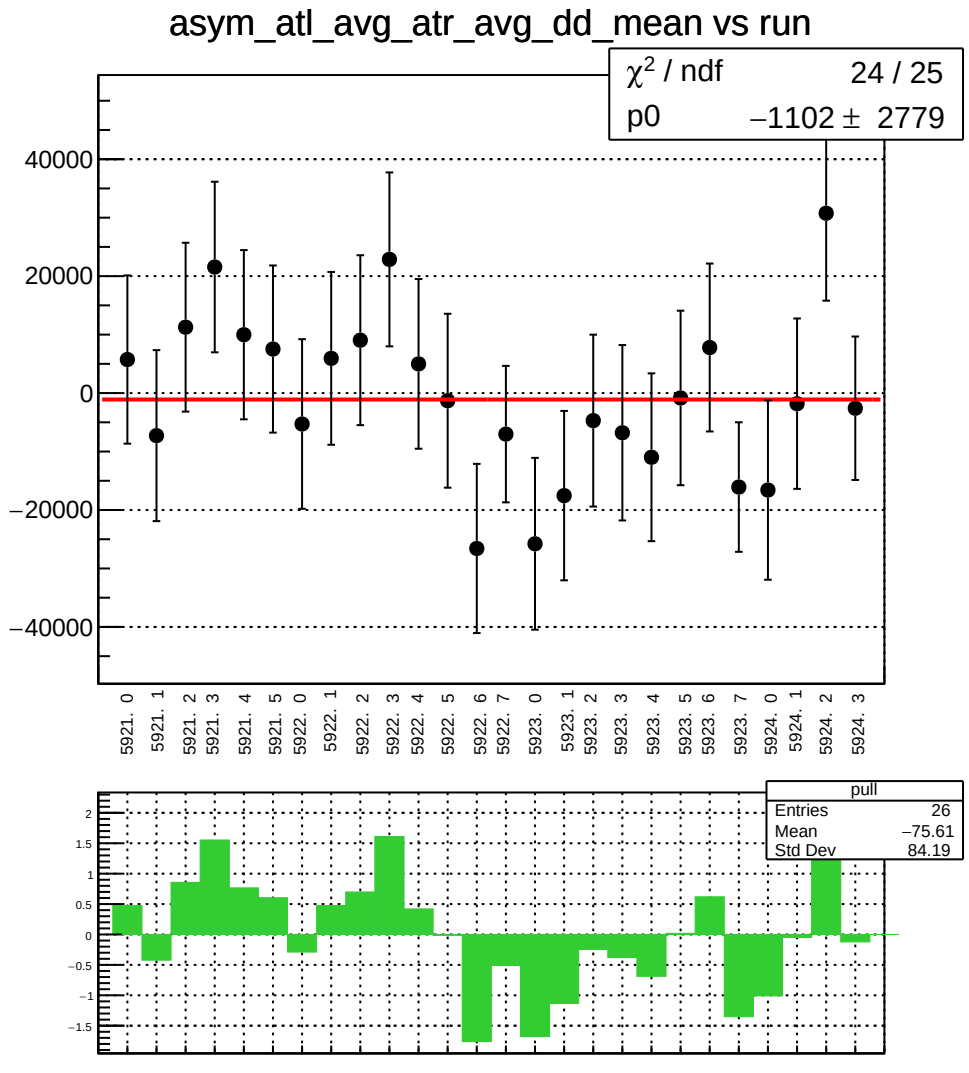

pull1D
Entries 26
Mean 0.02229
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

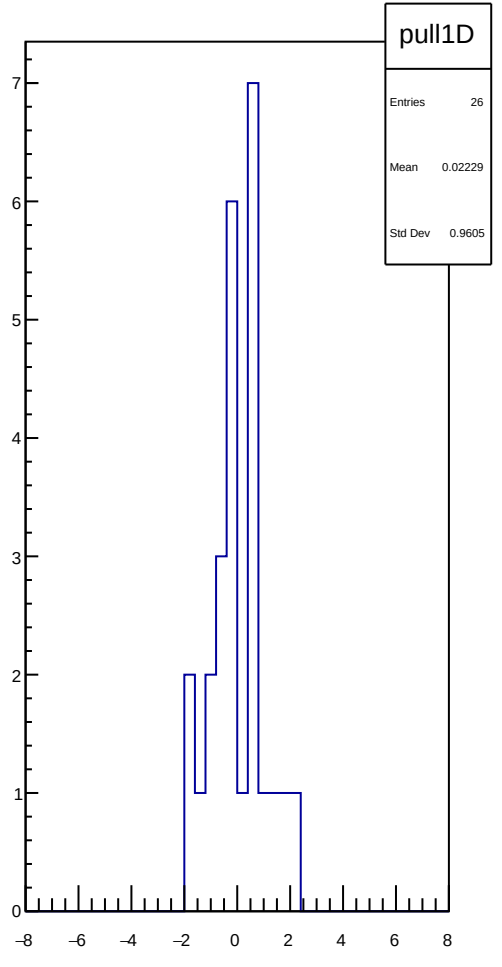

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141 / 25
p0 1392 ± 1.965
1460
1440
1420
1400
1380
1360
1340
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

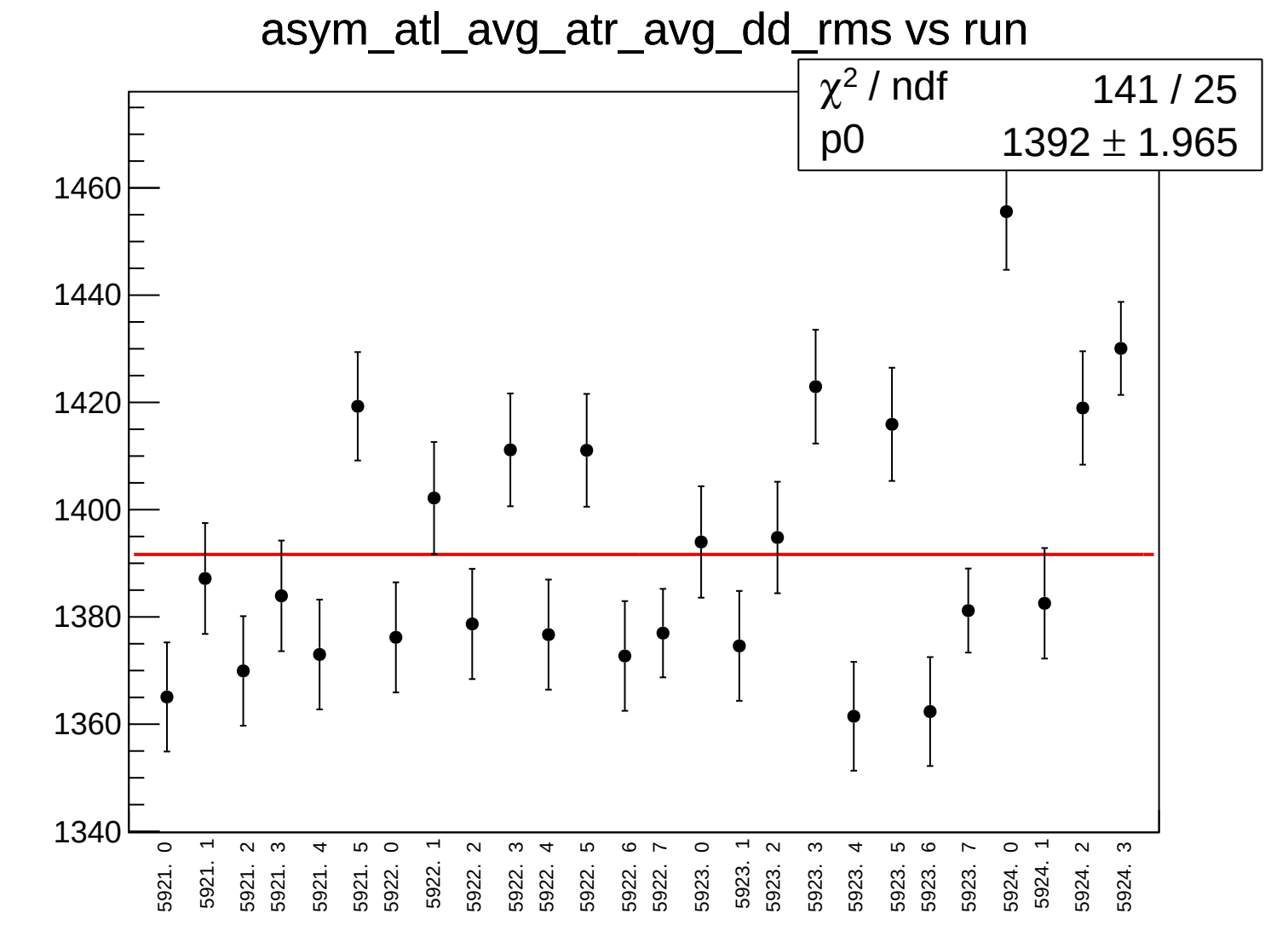

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

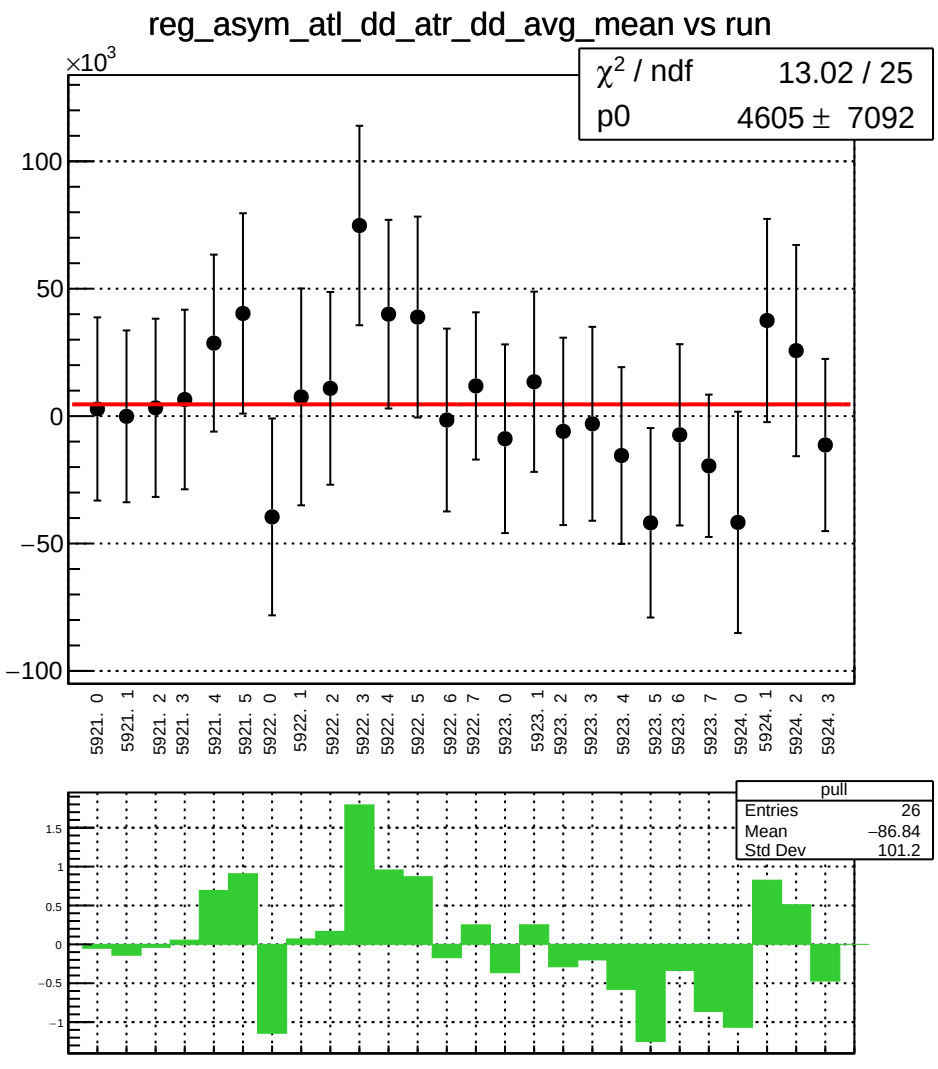

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

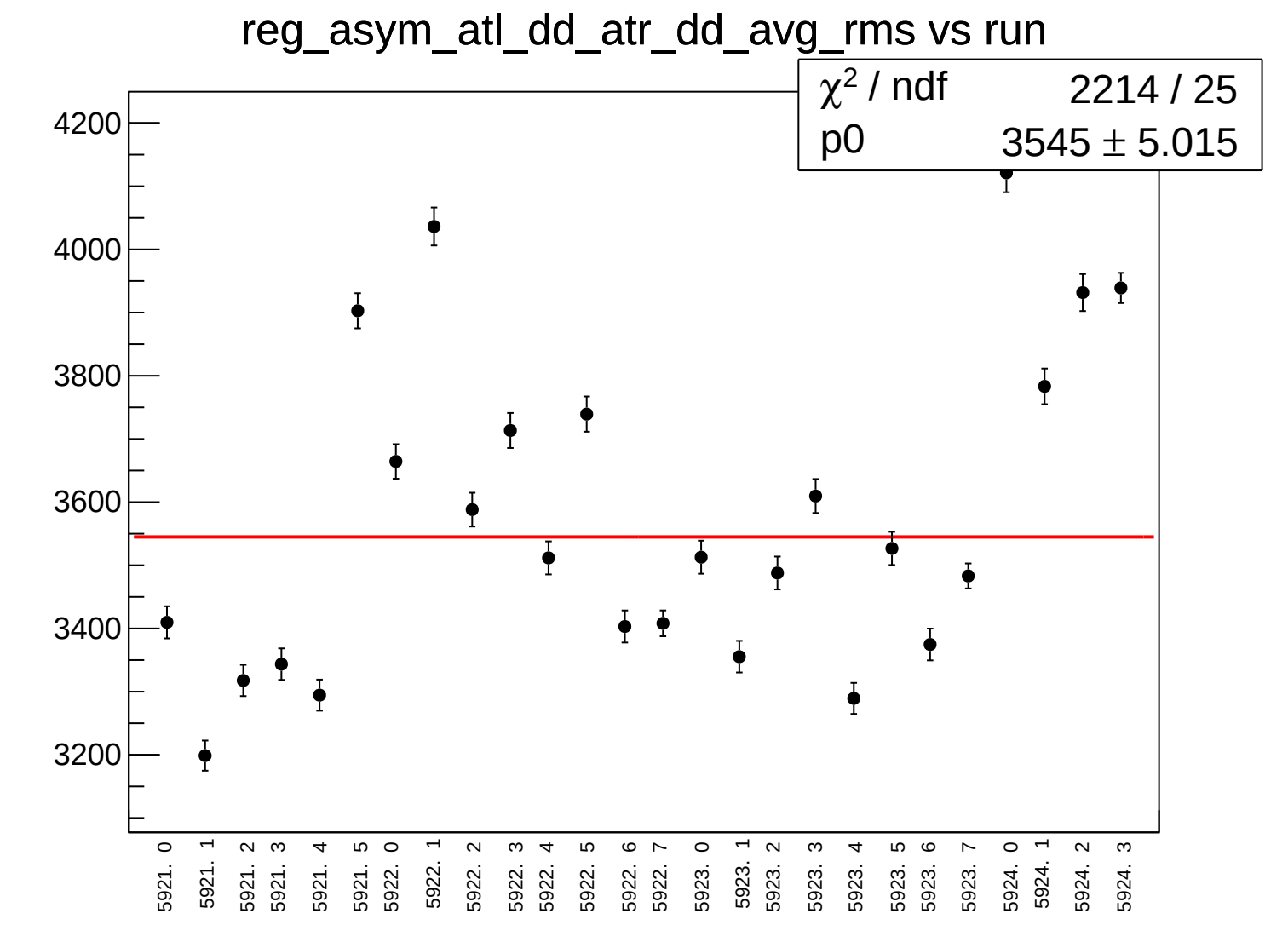

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

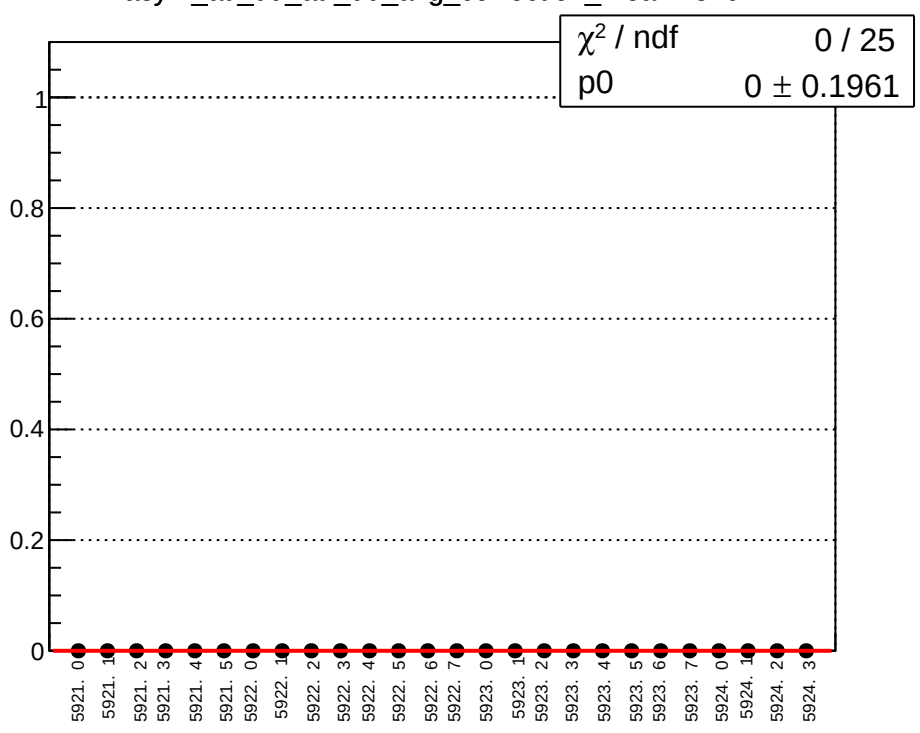

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 24 / 25
p0 −1102 ± 2779
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −75.61
Std Dev 84.19
2
1.5
1
0.5
0
−0.5
−1
−1.5

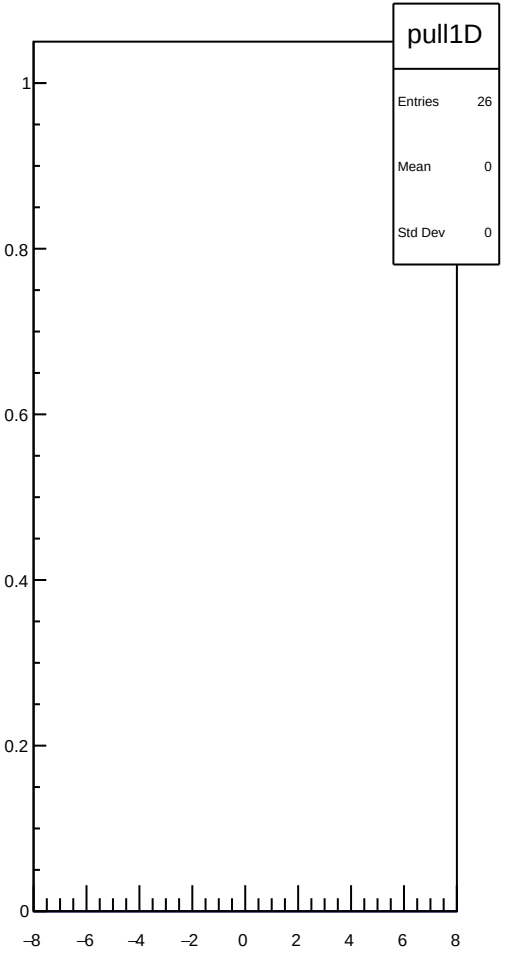

pull1D
Entries 26
Mean 0.02229
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

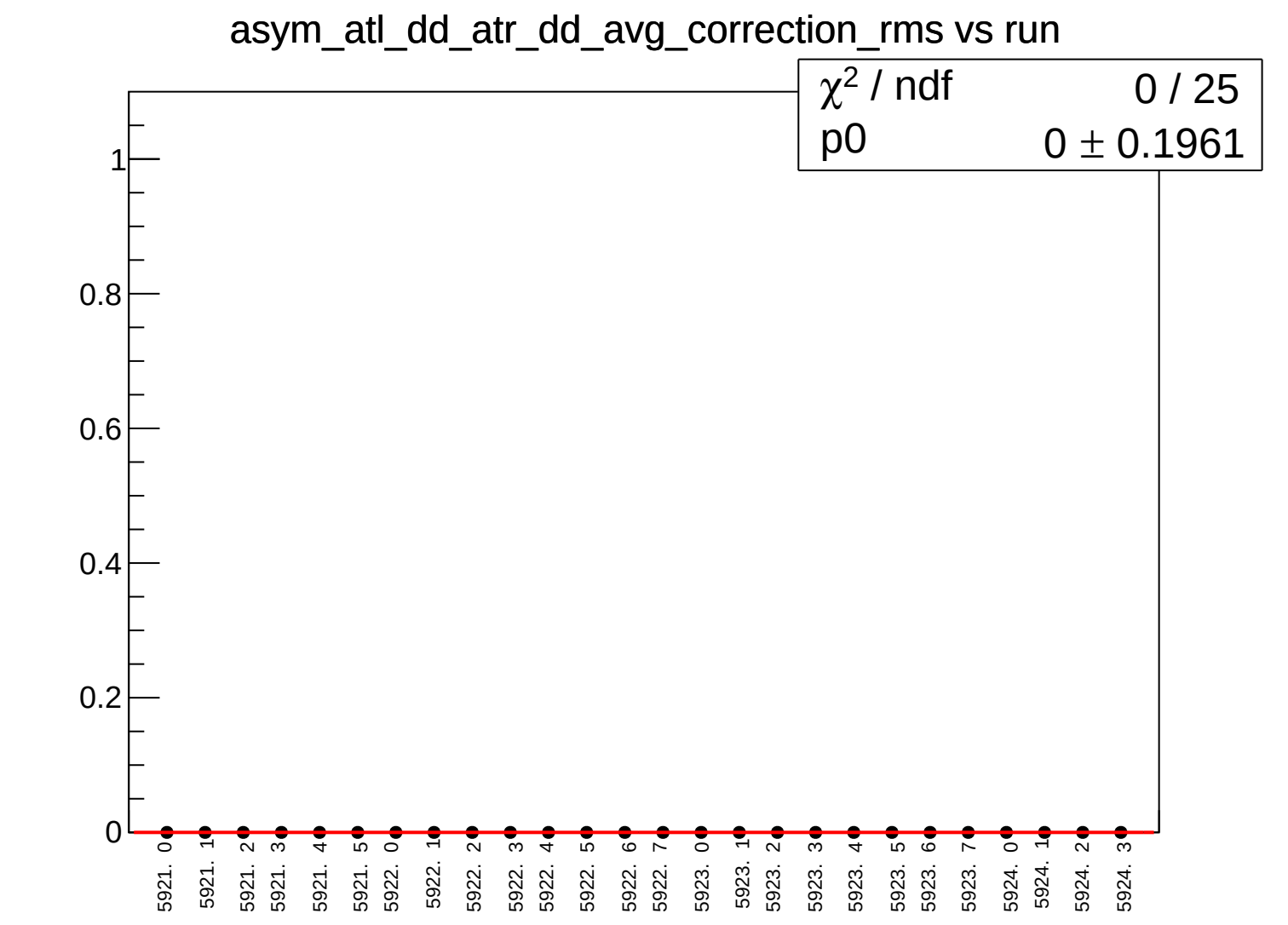

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141 / 25
p0 1392 ± 1.965
1460
1440
1420
1400
1380
1360
1340
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

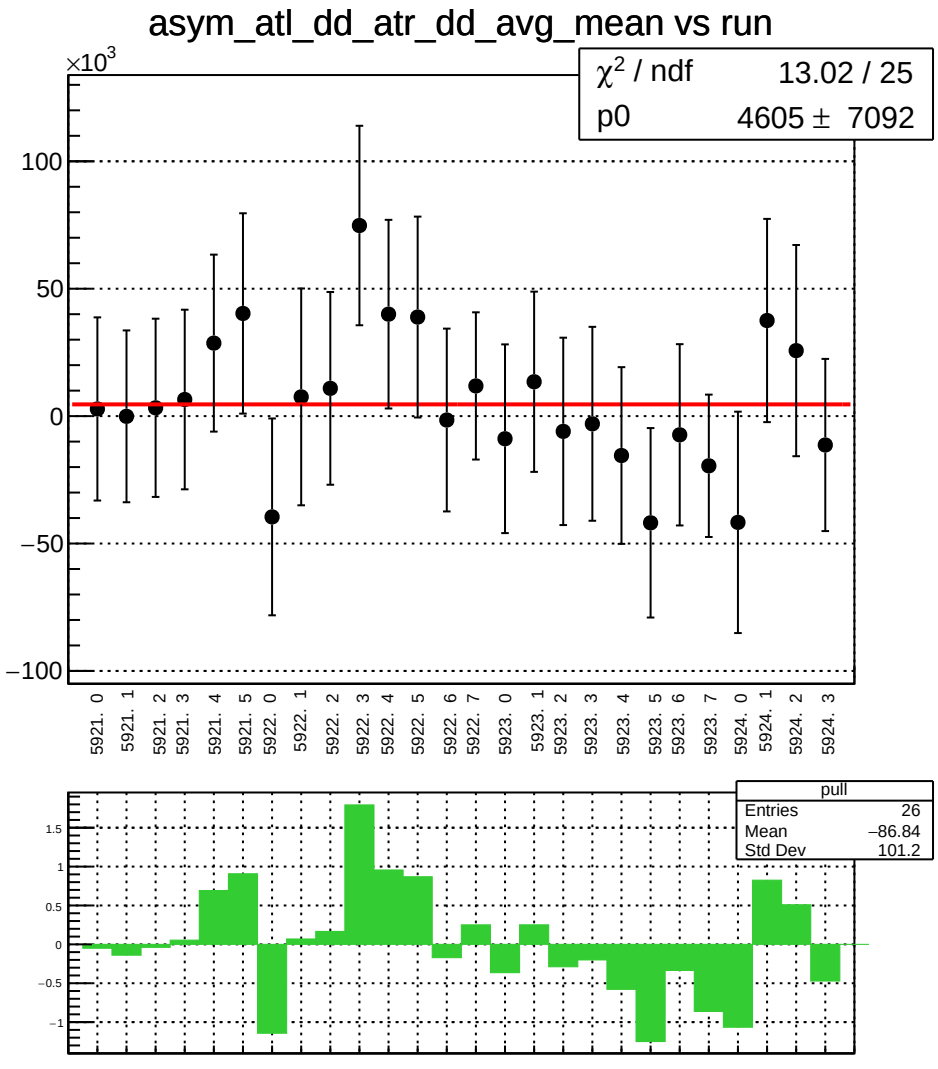

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 13.02 / 25
p0 4605 ± 7092
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −86.84
Std Dev 101.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.01484
Std Dev 0.7075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

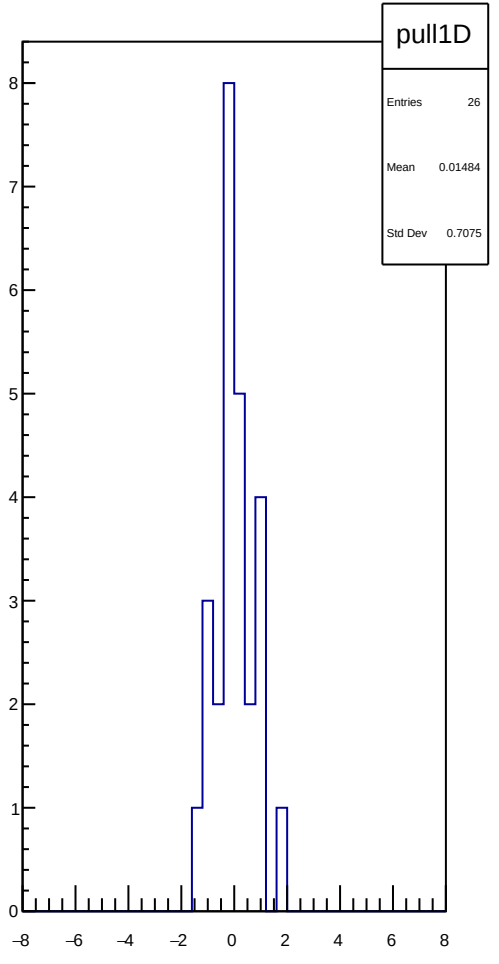

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2214 / 25
p0 3545 ± 5.015
4200
4000
3800
3600
3400
3200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

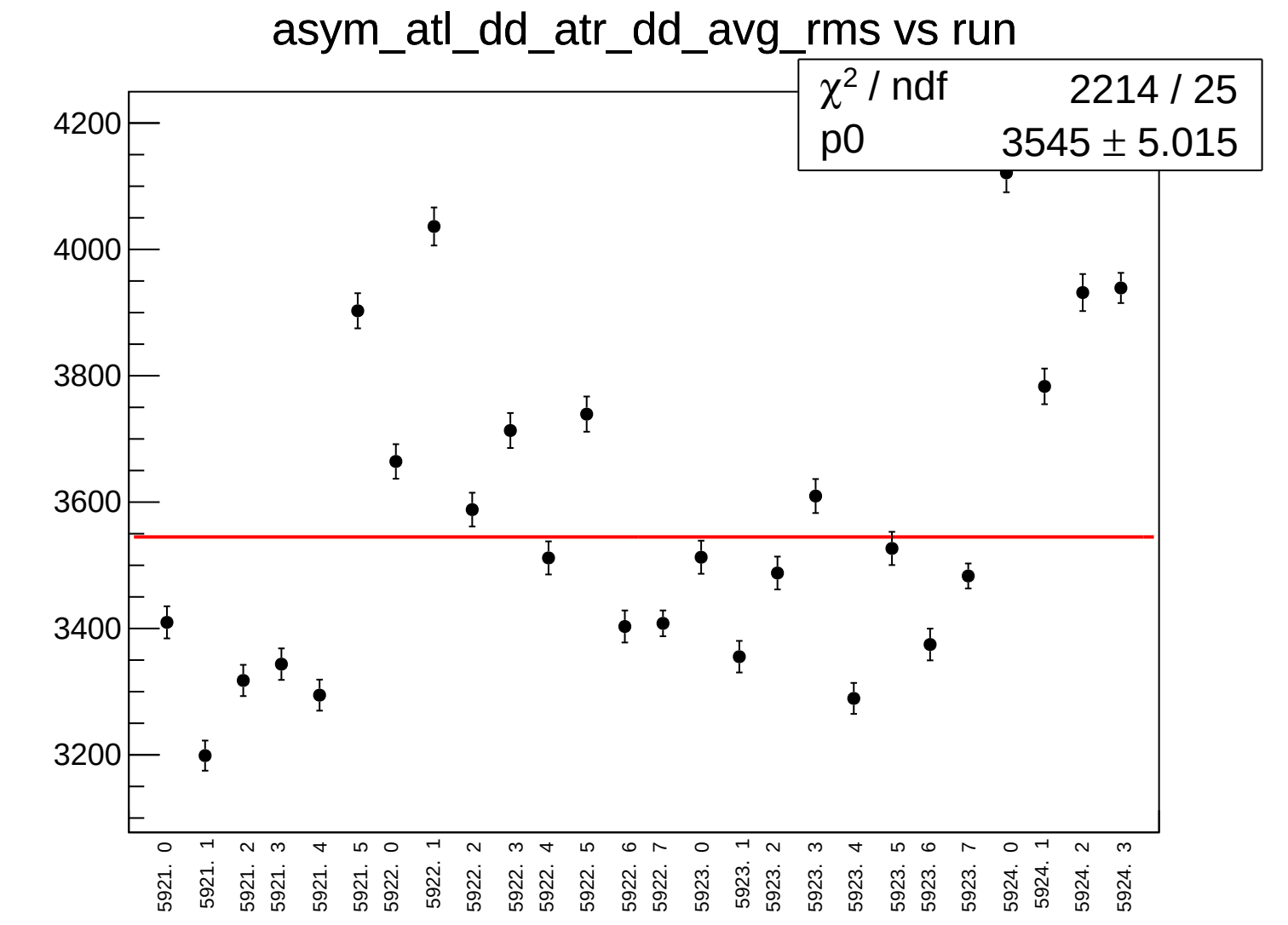

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

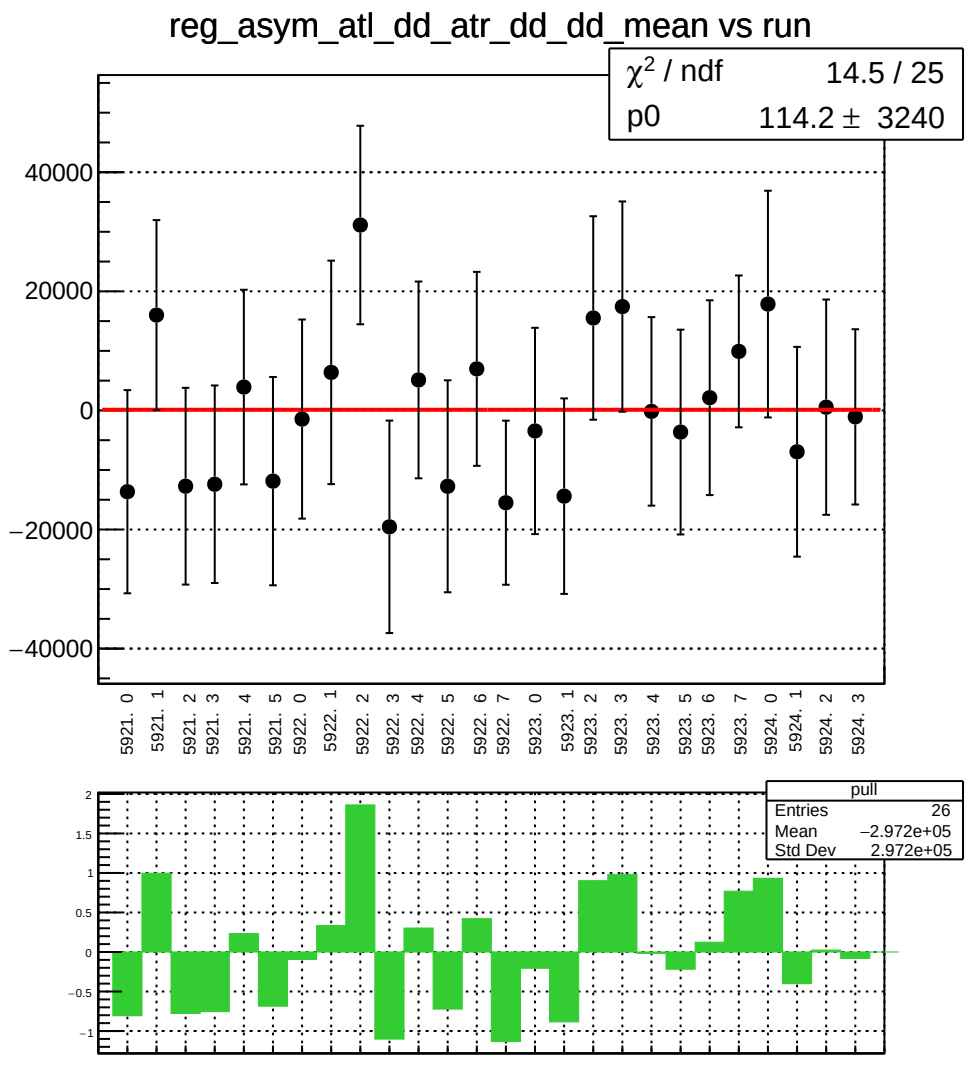

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

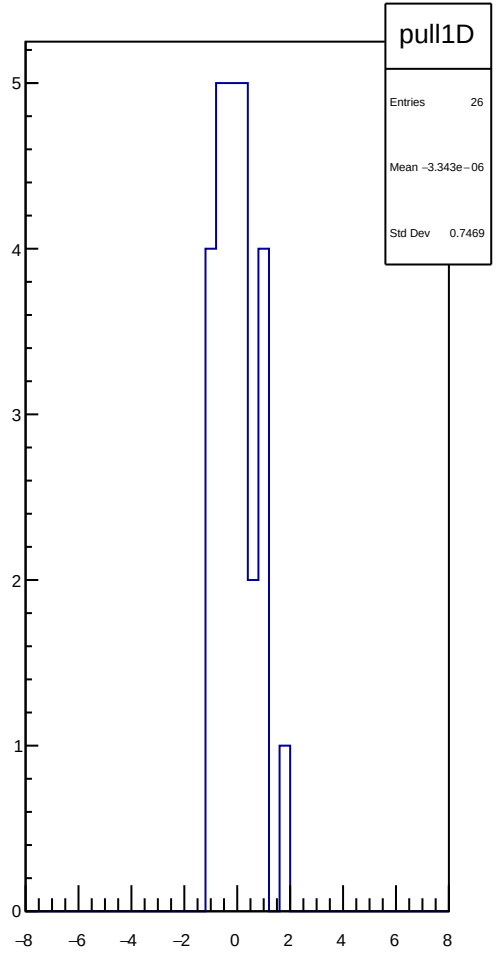

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

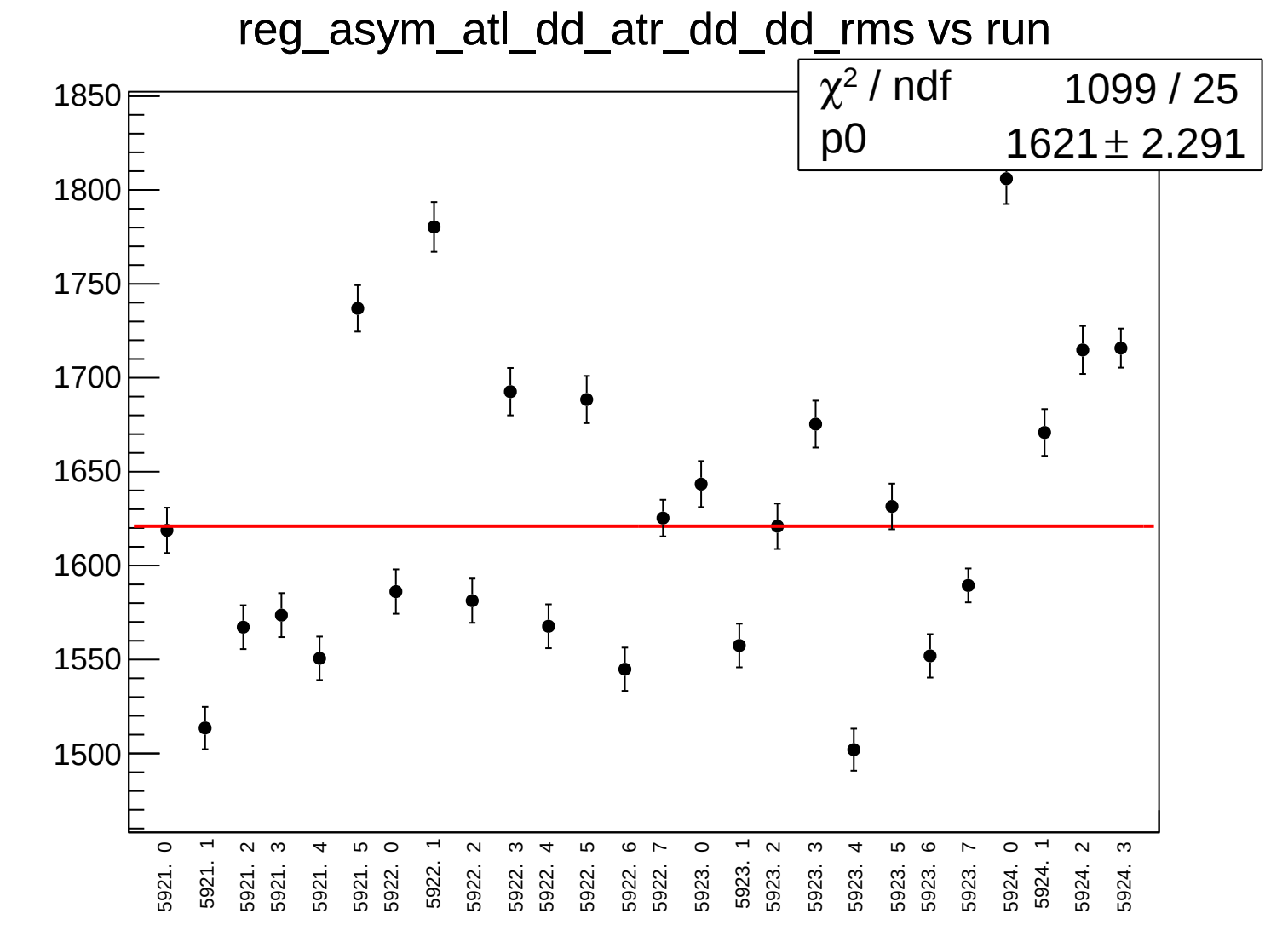

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 13.02 / 25
p0 4605 ± 7092
×10³
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −86.84
Std Dev 101.2
1.5
1
0.5
0
−0.5
−1

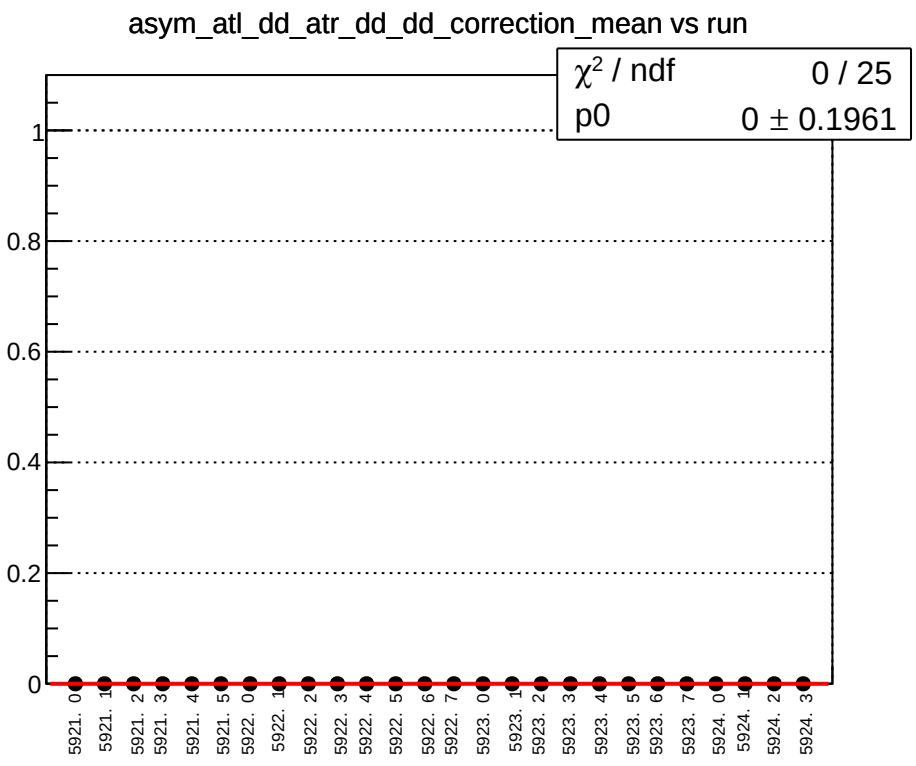

pull1D
Entries 26
Mean 0.01484
Std Dev 0.7075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

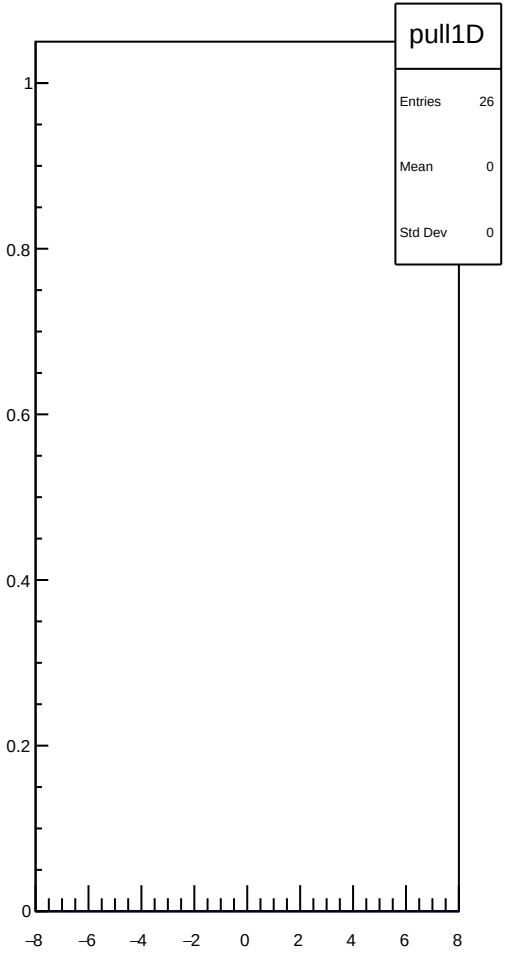

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2214 / 25
p0 3545 ± 5.015
4200
4000
3800
3600
3400
3200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

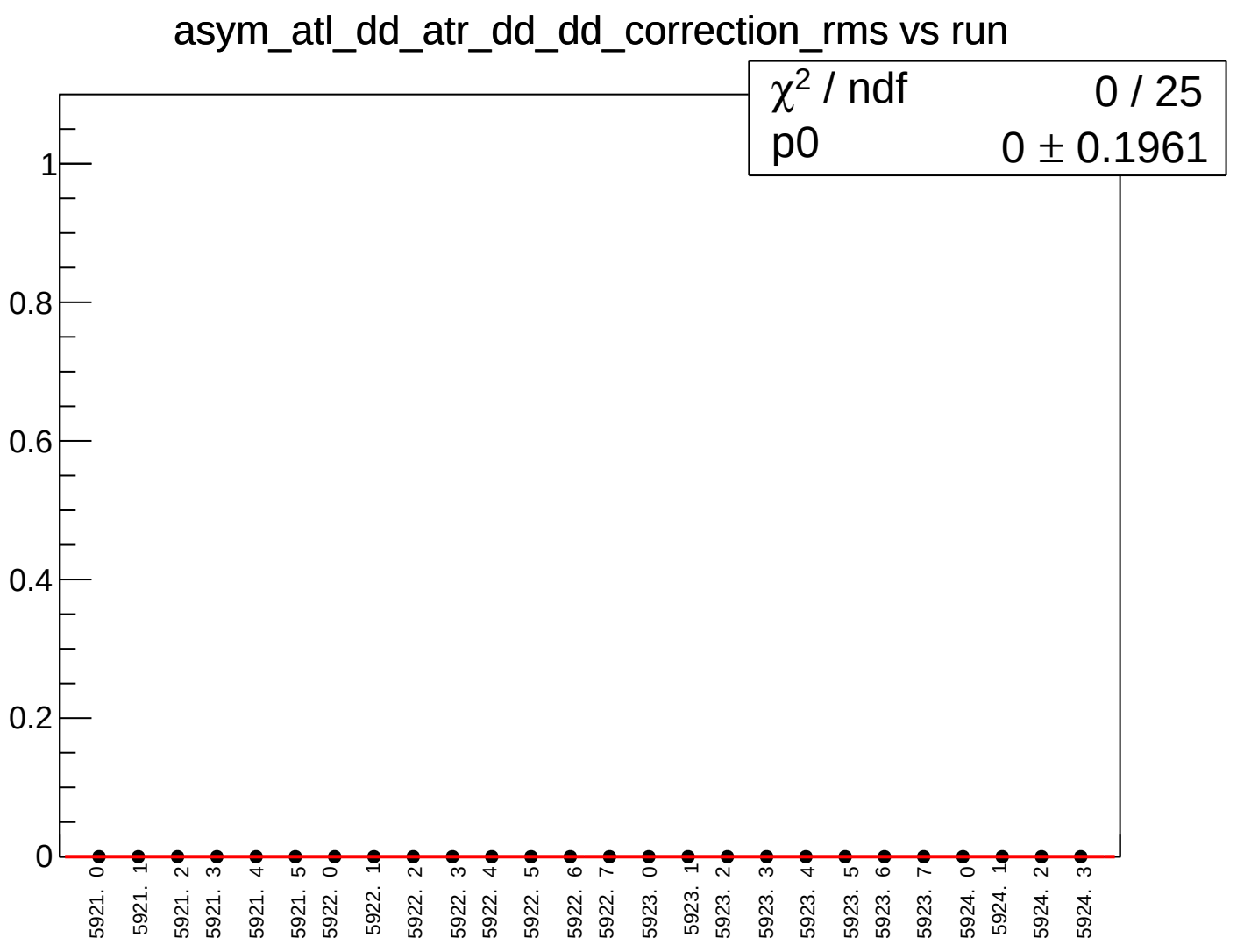

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 14.5 / 25
p0 114.2 ± 3240
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −2.972e+05
Std Dev 2.972e+05
2
1.5
1
0.5
0
−0.5
−1

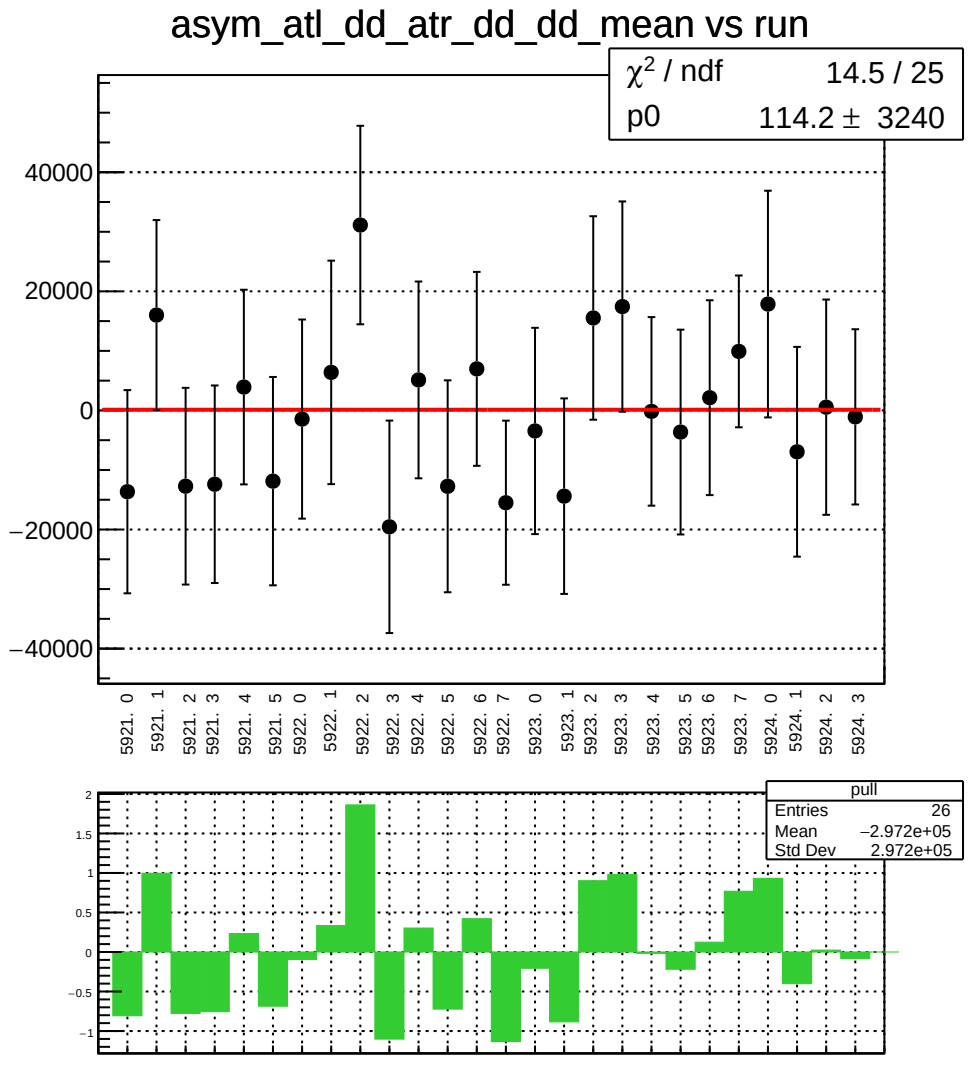

pull1D
Entries 26
Mean −3.343e−06
Std Dev 0.7469
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

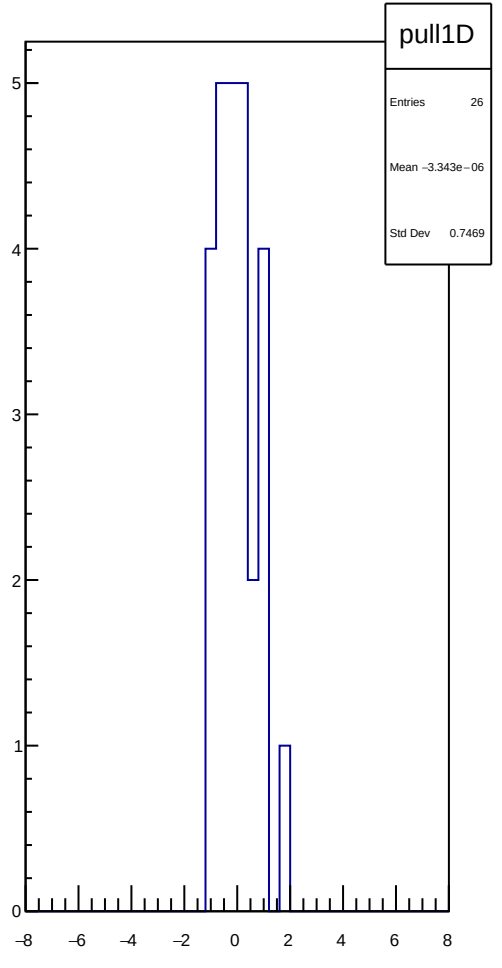

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1099 / 25
p0 1621 ± 2.291
1850
1800
1750
1700
1650
1600
1550
1500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

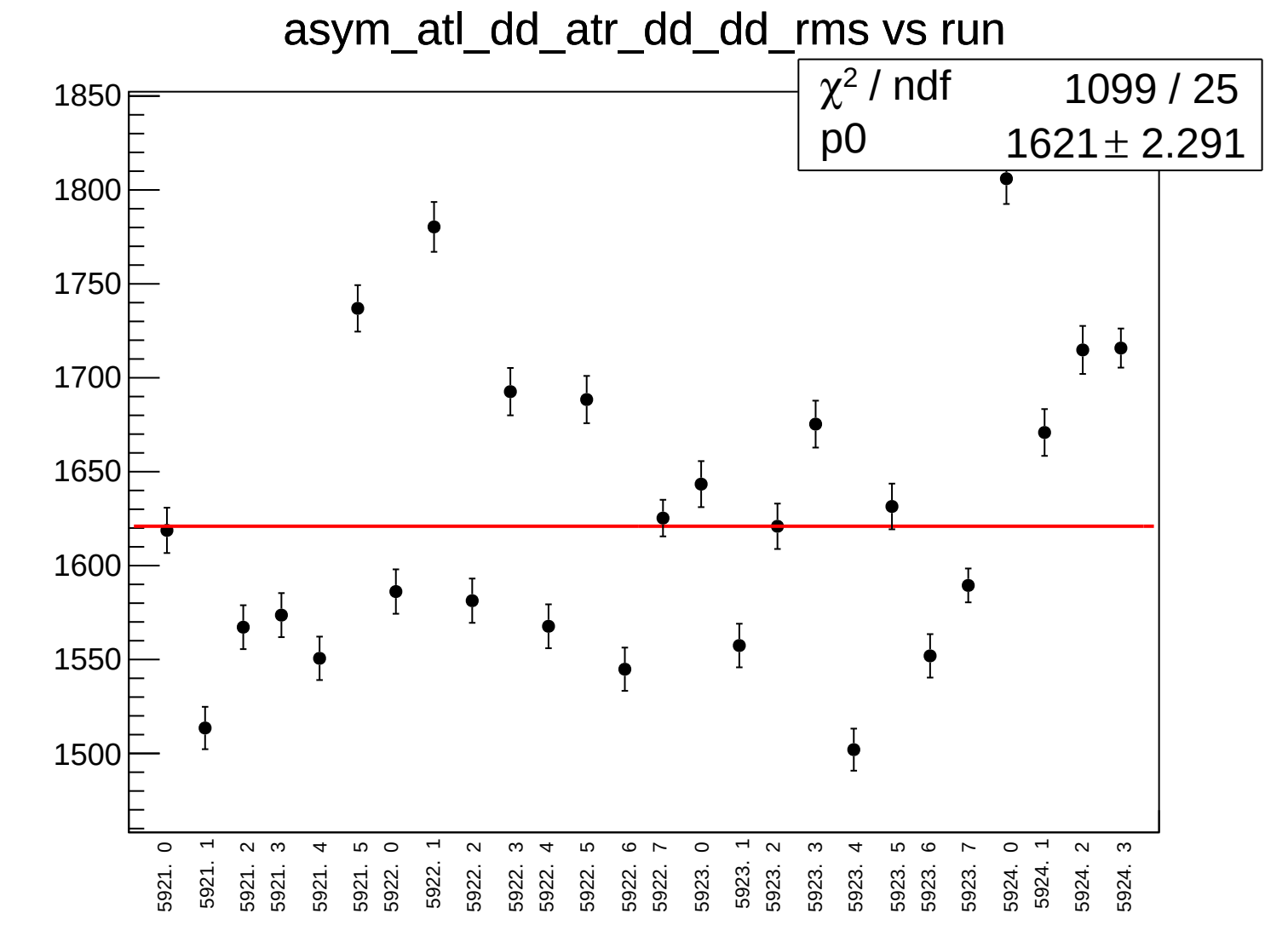

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

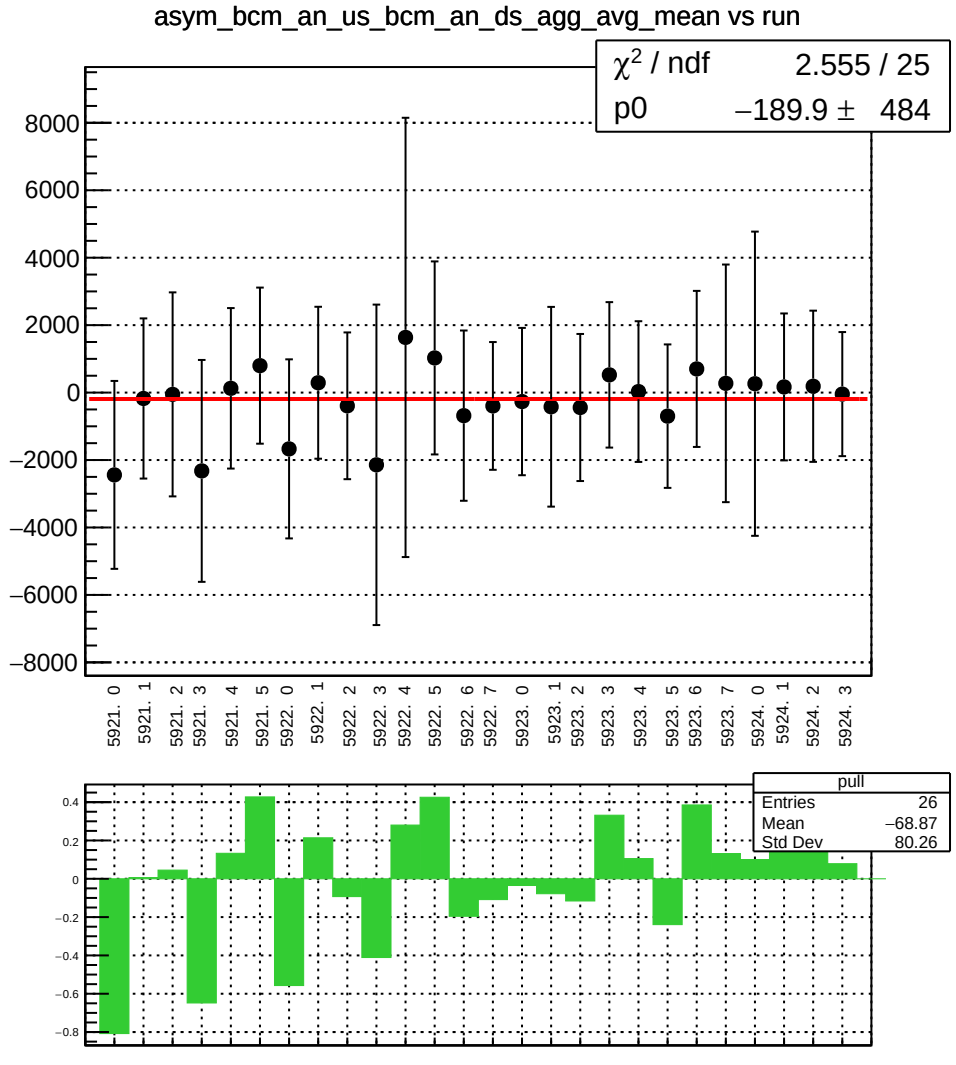

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

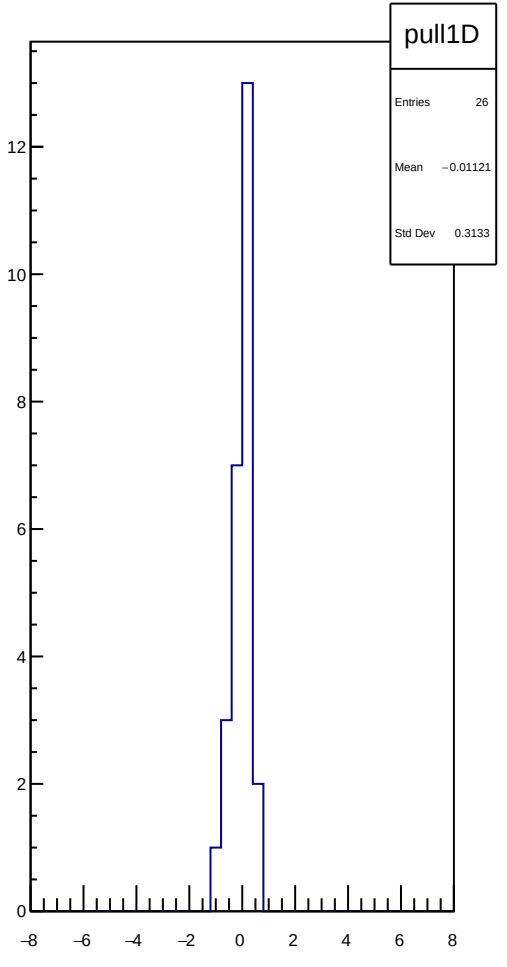

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 25
p0 0 ± 0.1961
1
0.8
0.6
0.4
0.2
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

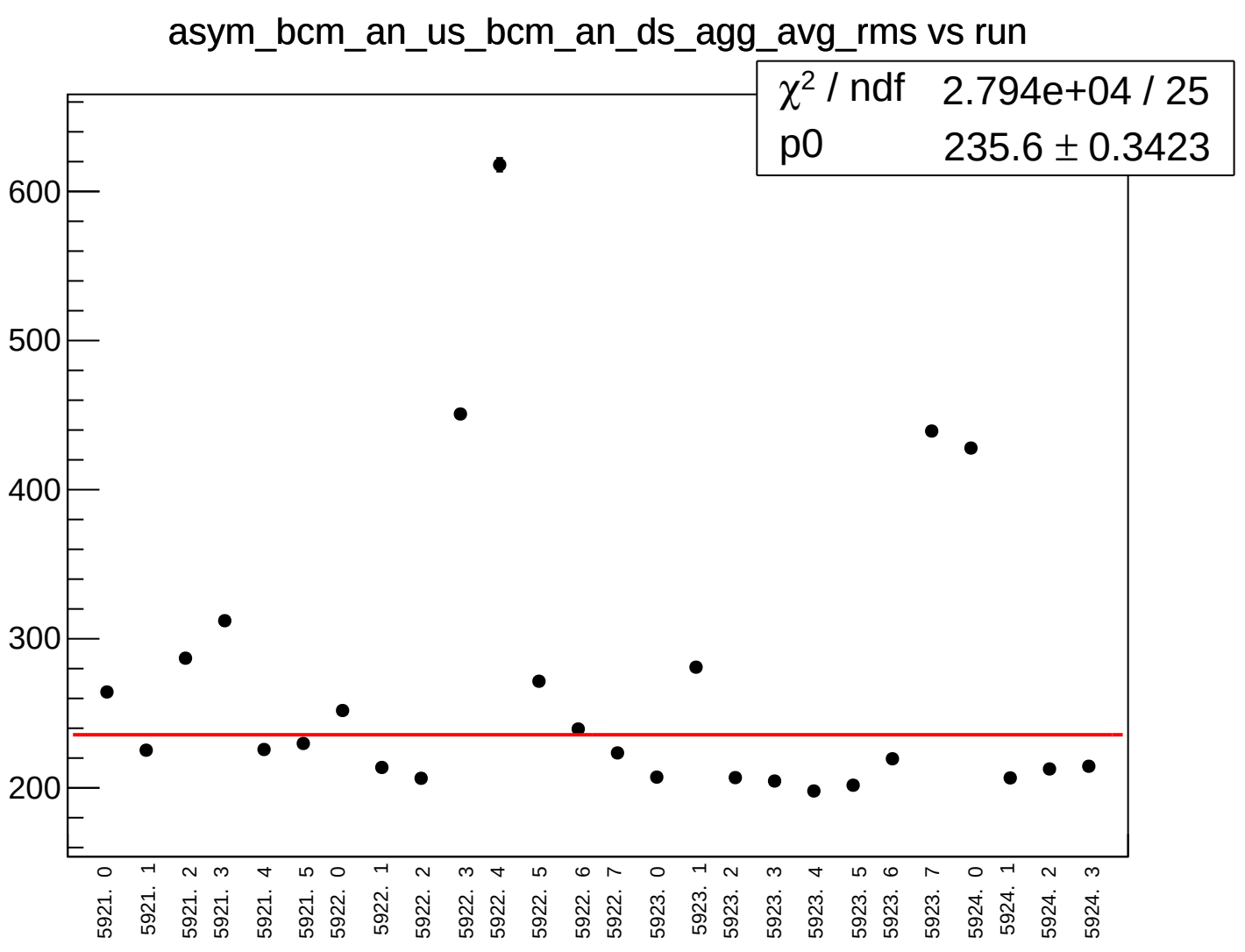

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 14.5 / 25
p0 114.2 ± 3240
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −2.972e+05
Std Dev 2.972e+05
2
1.5
1
0.5
0
−0.5
−1

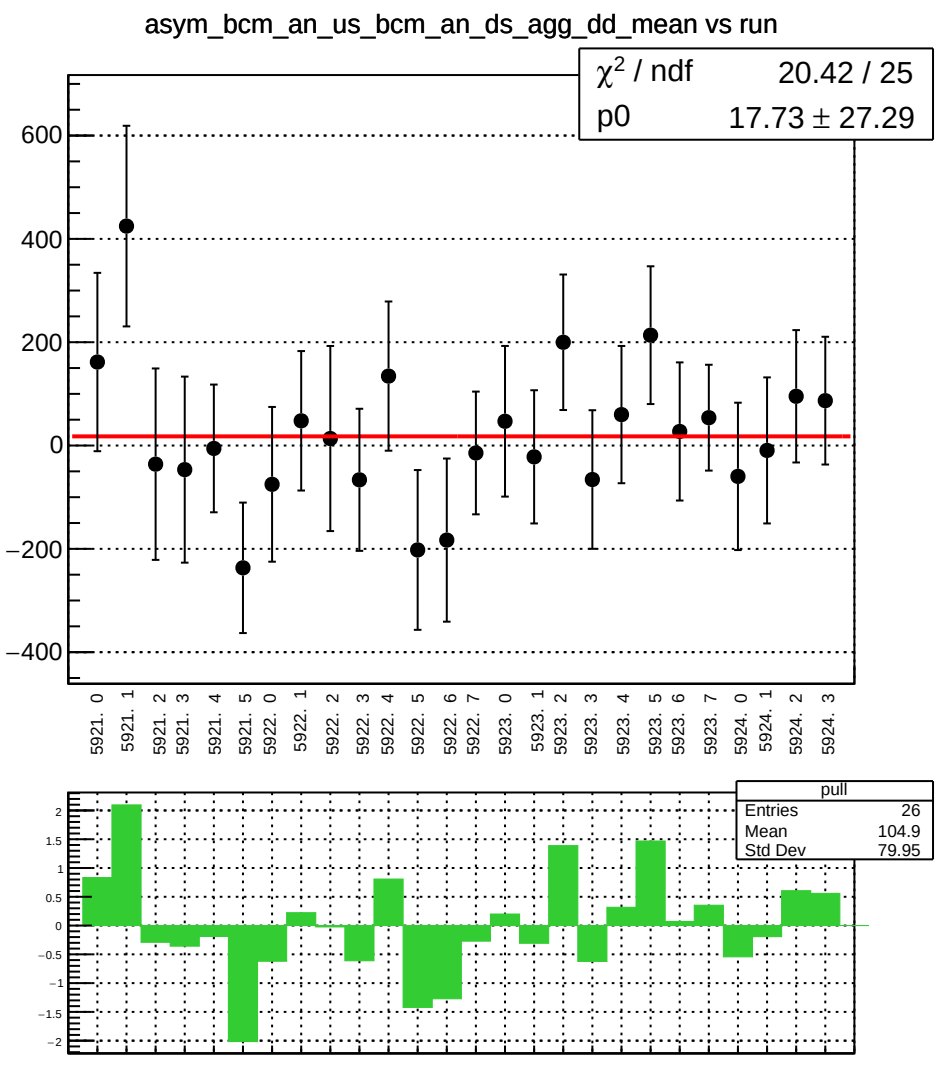

pull1D
Entries 26
Mean −3.343e−06
Std Dev 0.7469
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

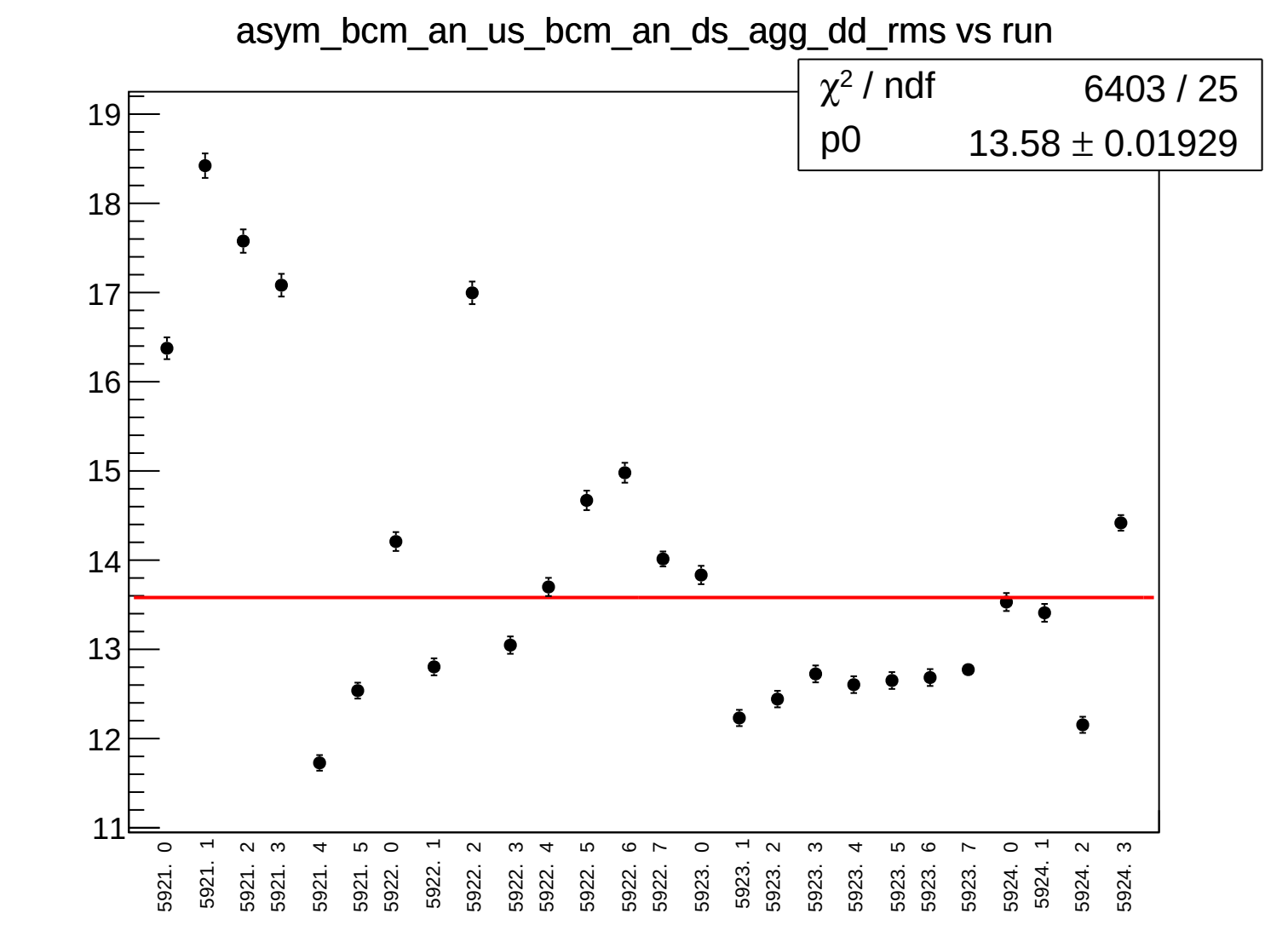

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1099 / 25
p0 1621 ± 2.291
1850
1800
1750
1700
1650
1600
1550
1500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

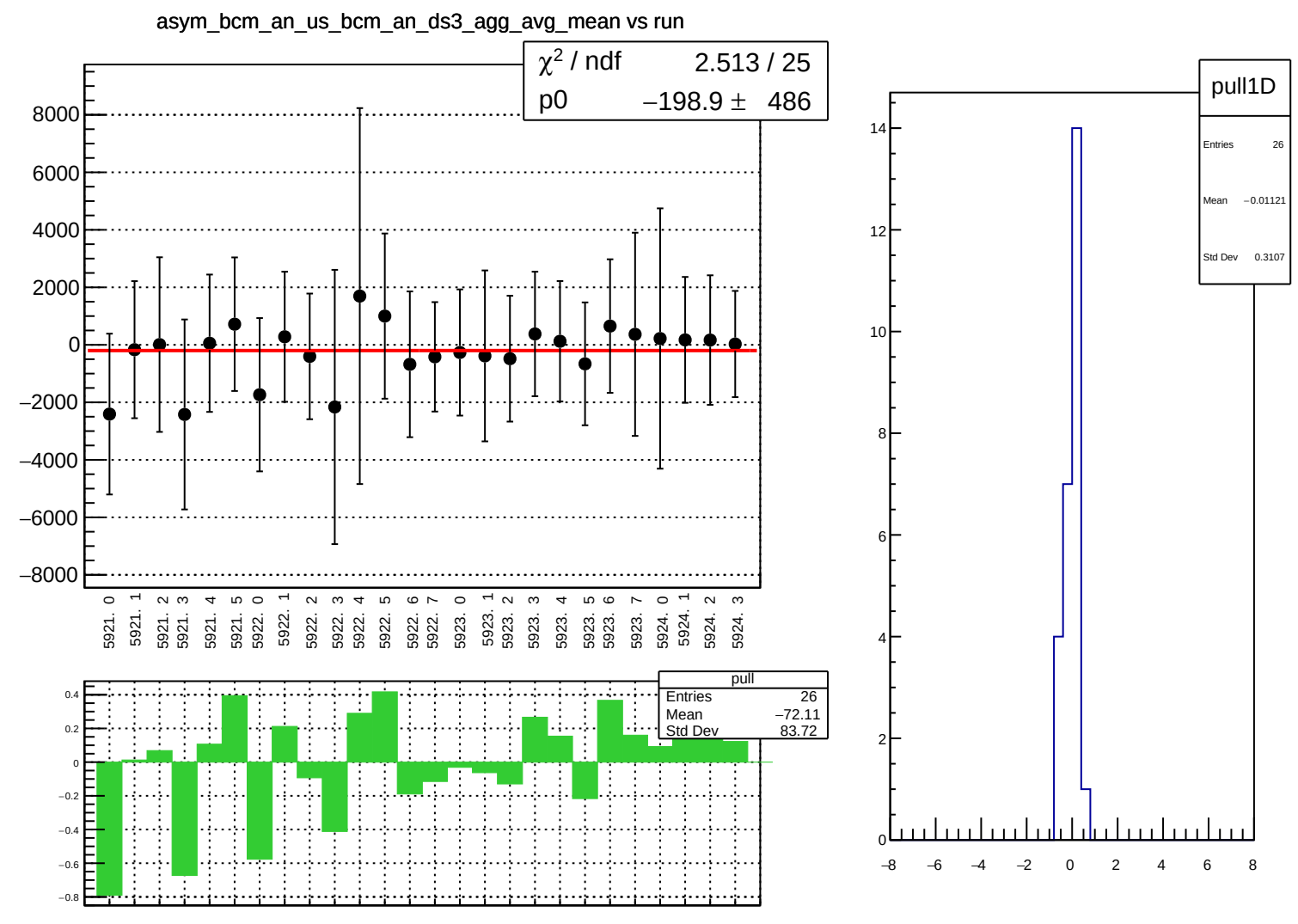

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 2.555 / 25
p0 −189.9 ± 484
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −68.87
Std Dev 80.26
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

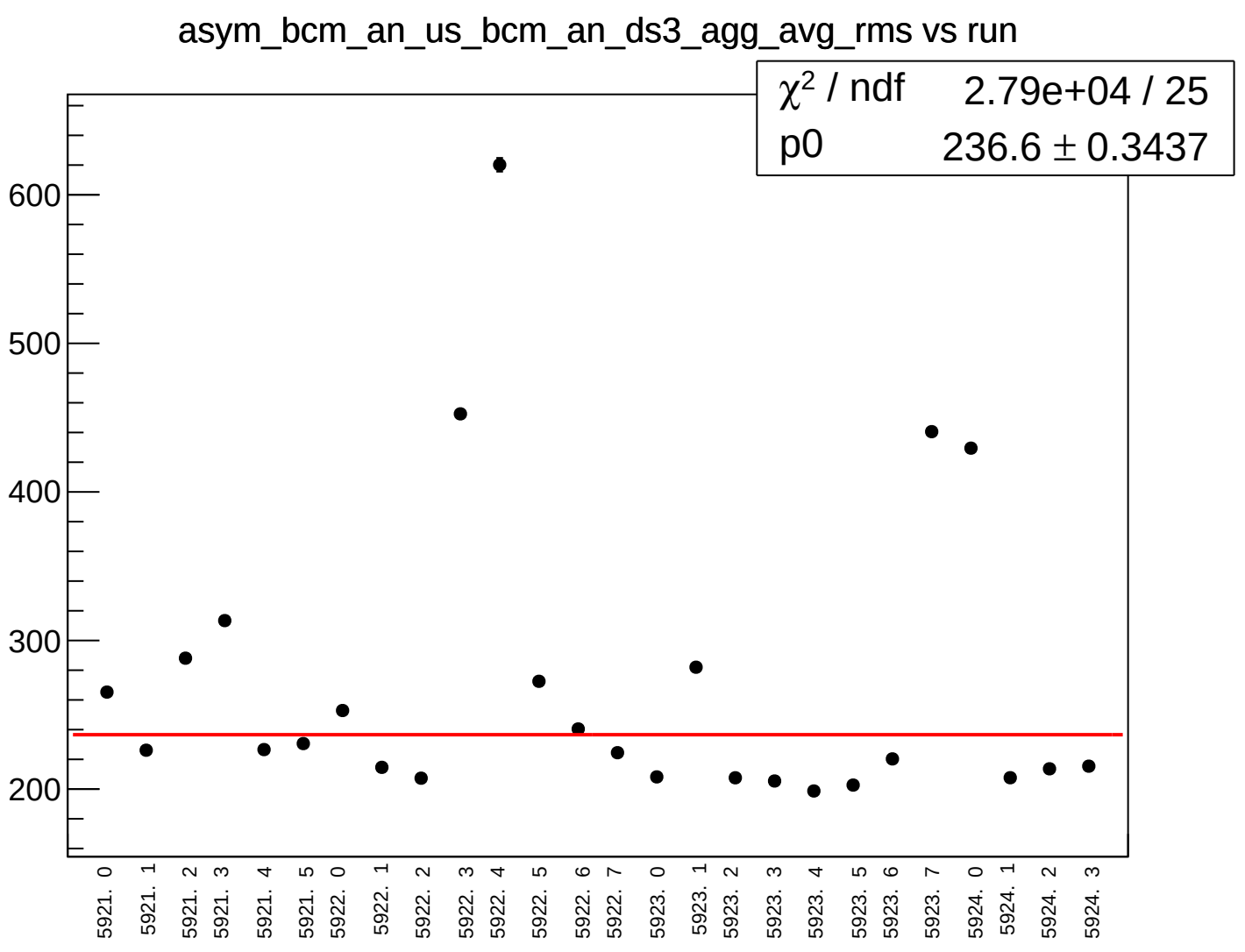

pull1D
Entries 26
Mean −0.01121
Std Dev 0.3133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

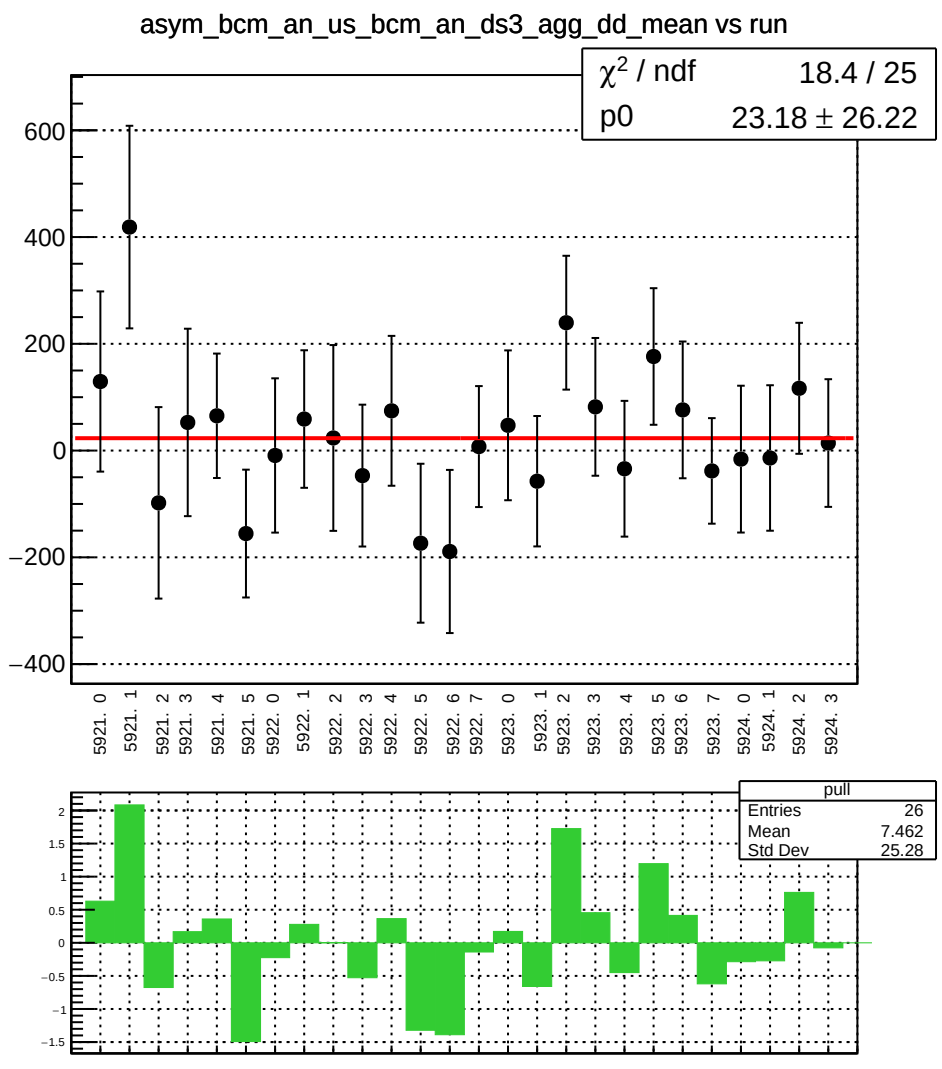

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.794e+04 / 25
p0 235.6 ± 0.3423
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

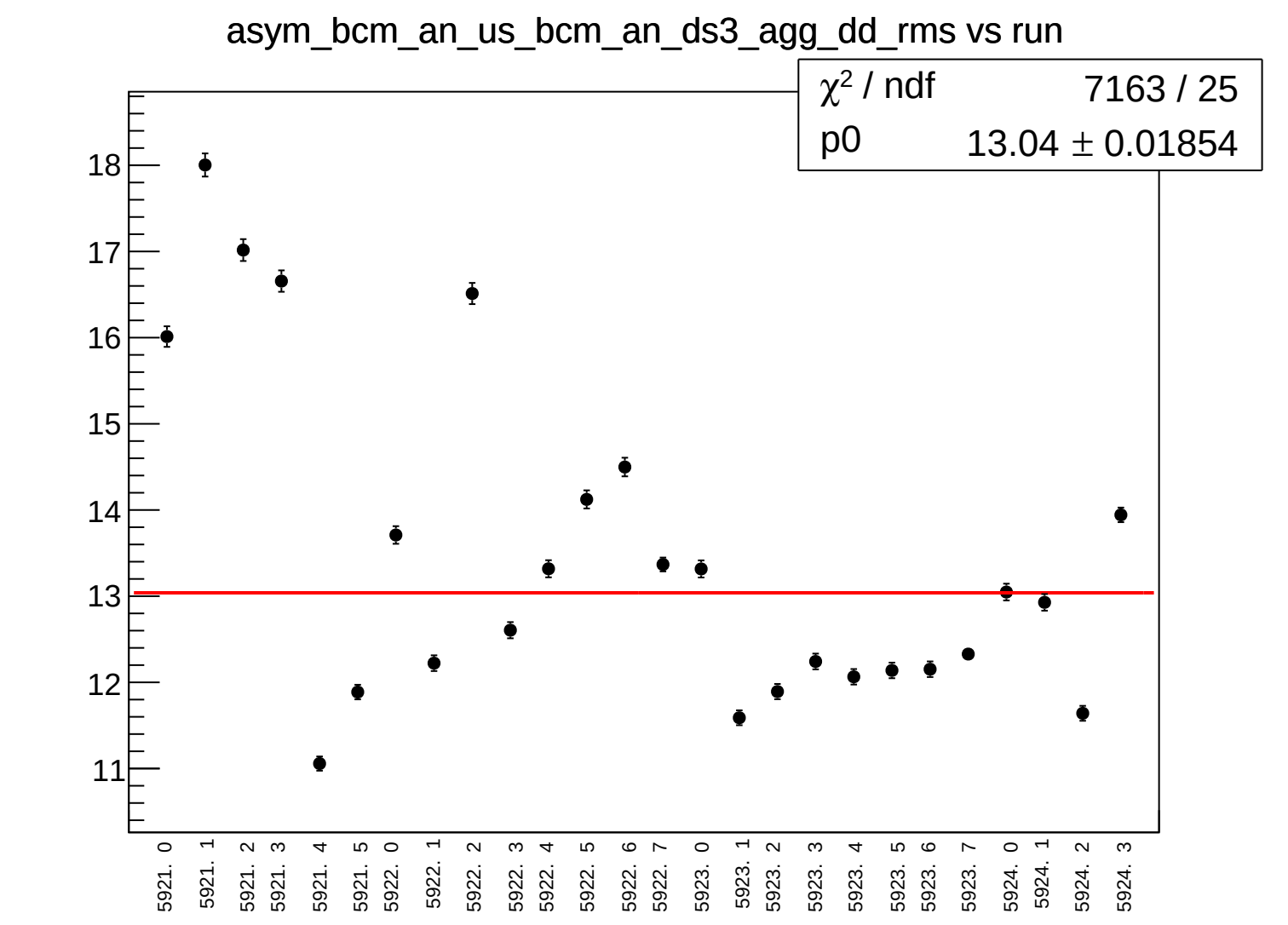

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 20.42 / 25
p0 17.73 ± 27.29
600
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 104.9
Std Dev 79.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.007318
Std Dev 0.8862
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

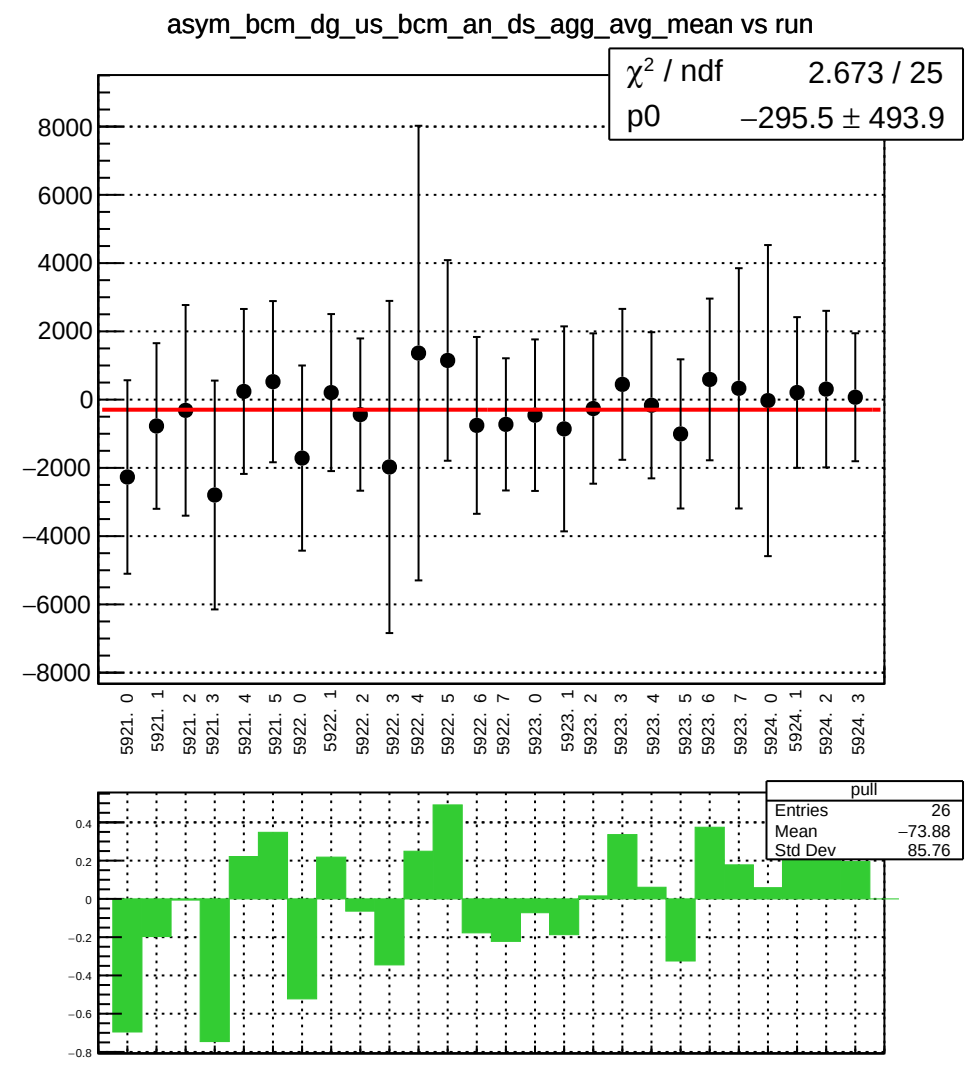

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6403 / 25
p0 13.58 ± 0.01929
19
18
17
16
15
14
13
12
11
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

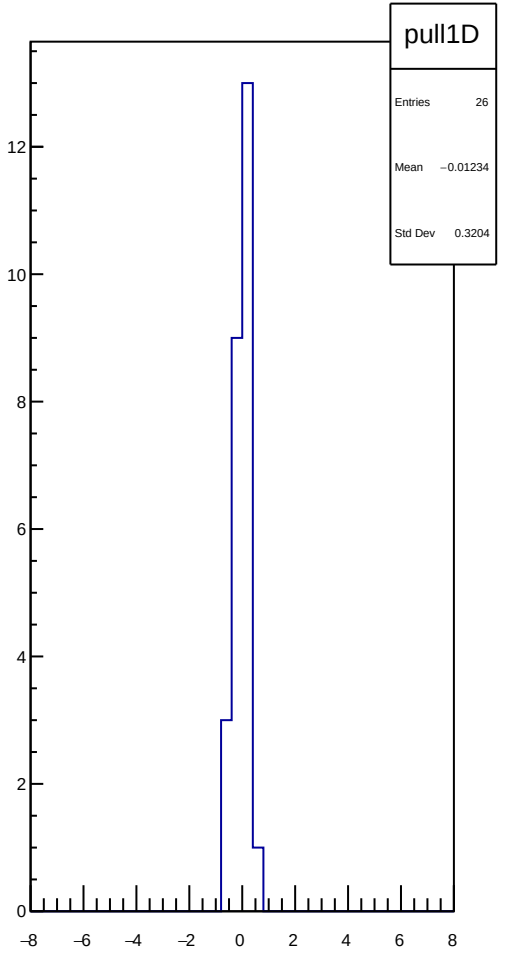

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 2.513 / 25
p0 −198.9 ± 486
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −72.11
Std Dev 83.72
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.01121
Std Dev 0.3107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

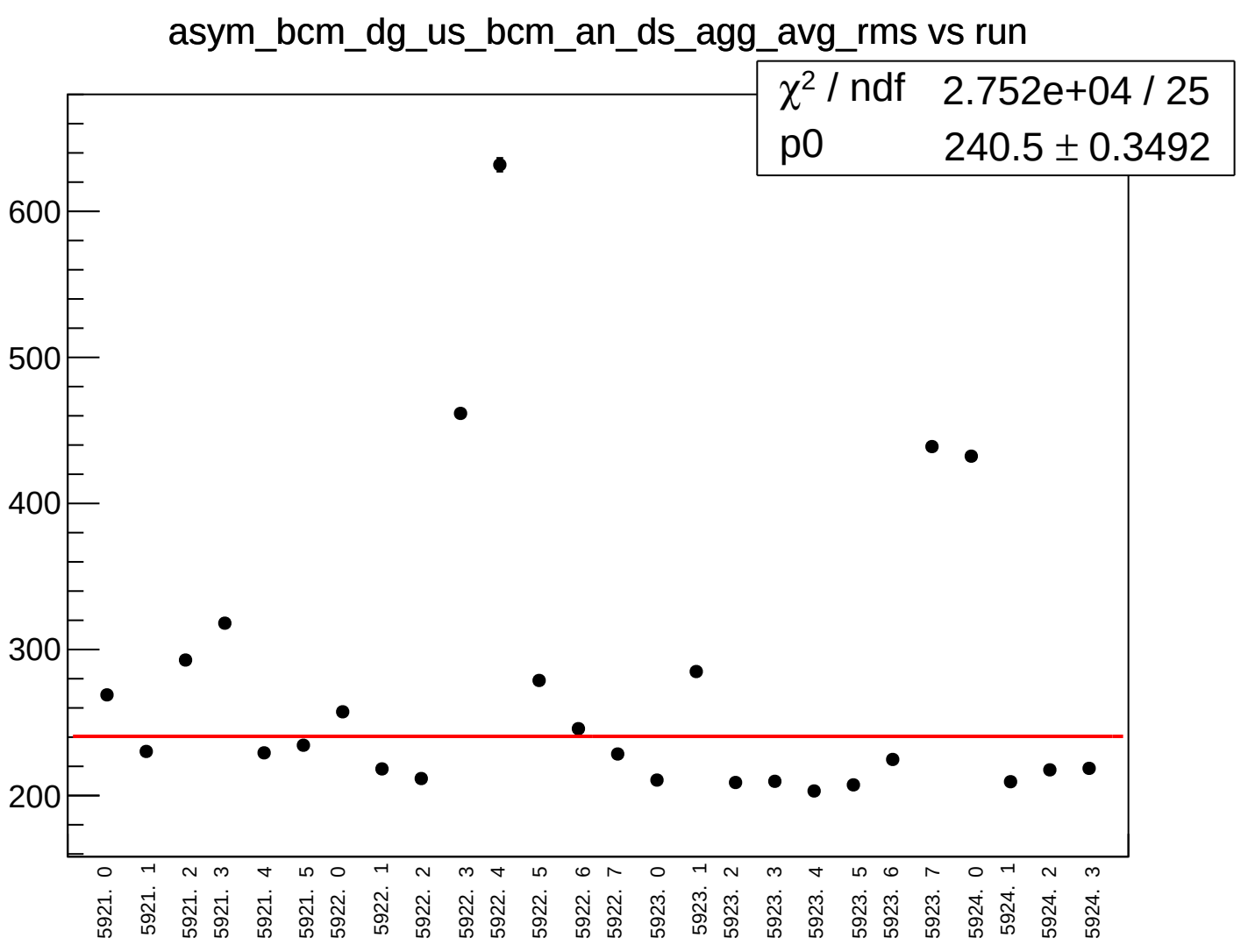

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.79e+04 / 25
p0 236.6 ± 0.3437
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

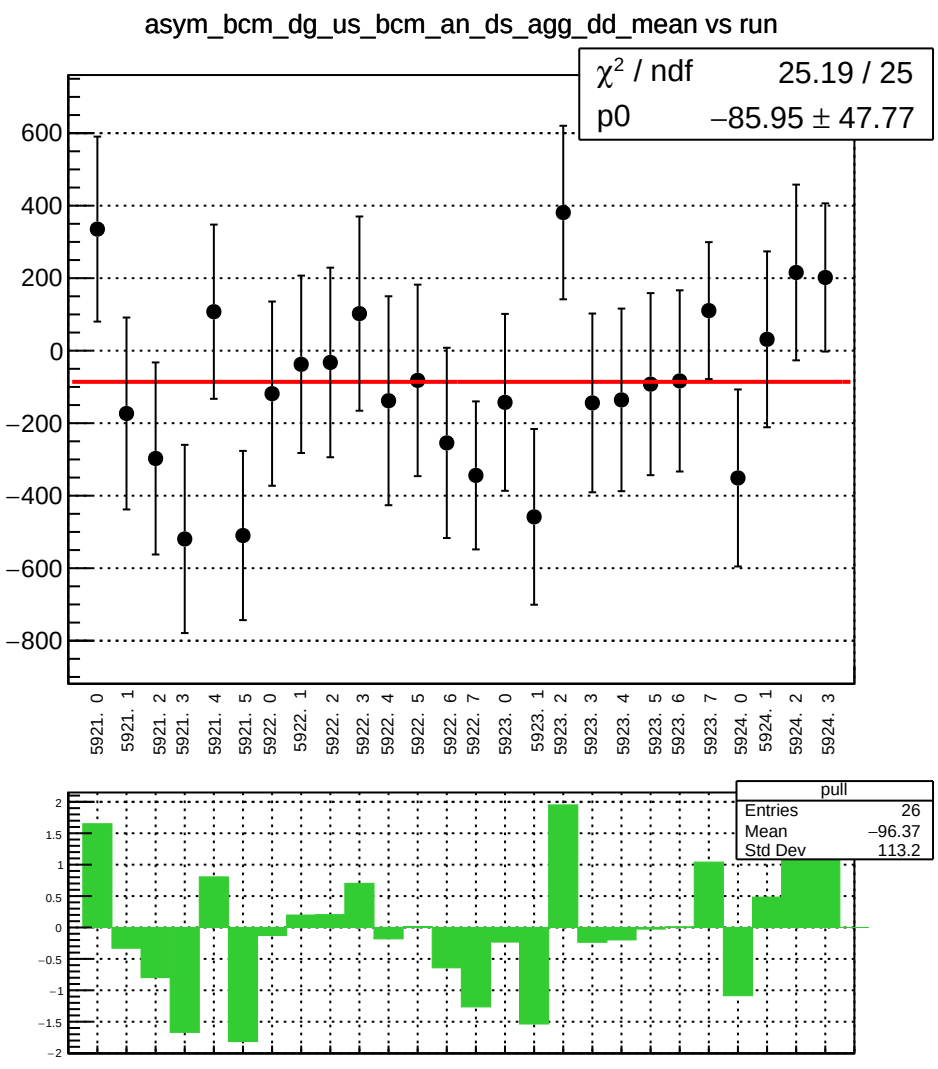

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 18.4 / 25
p0 23.18 ± 26.22
600
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 7.462
Std Dev 25.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01857
Std Dev 0.8409
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

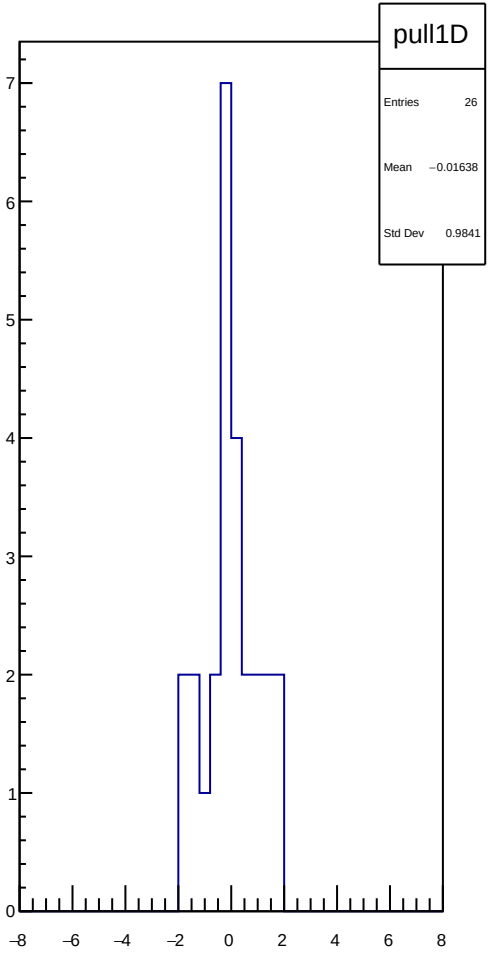

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7163 / 25
p0 13.04 ± 0.01854
18
17
16
15
14
13
12
11
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

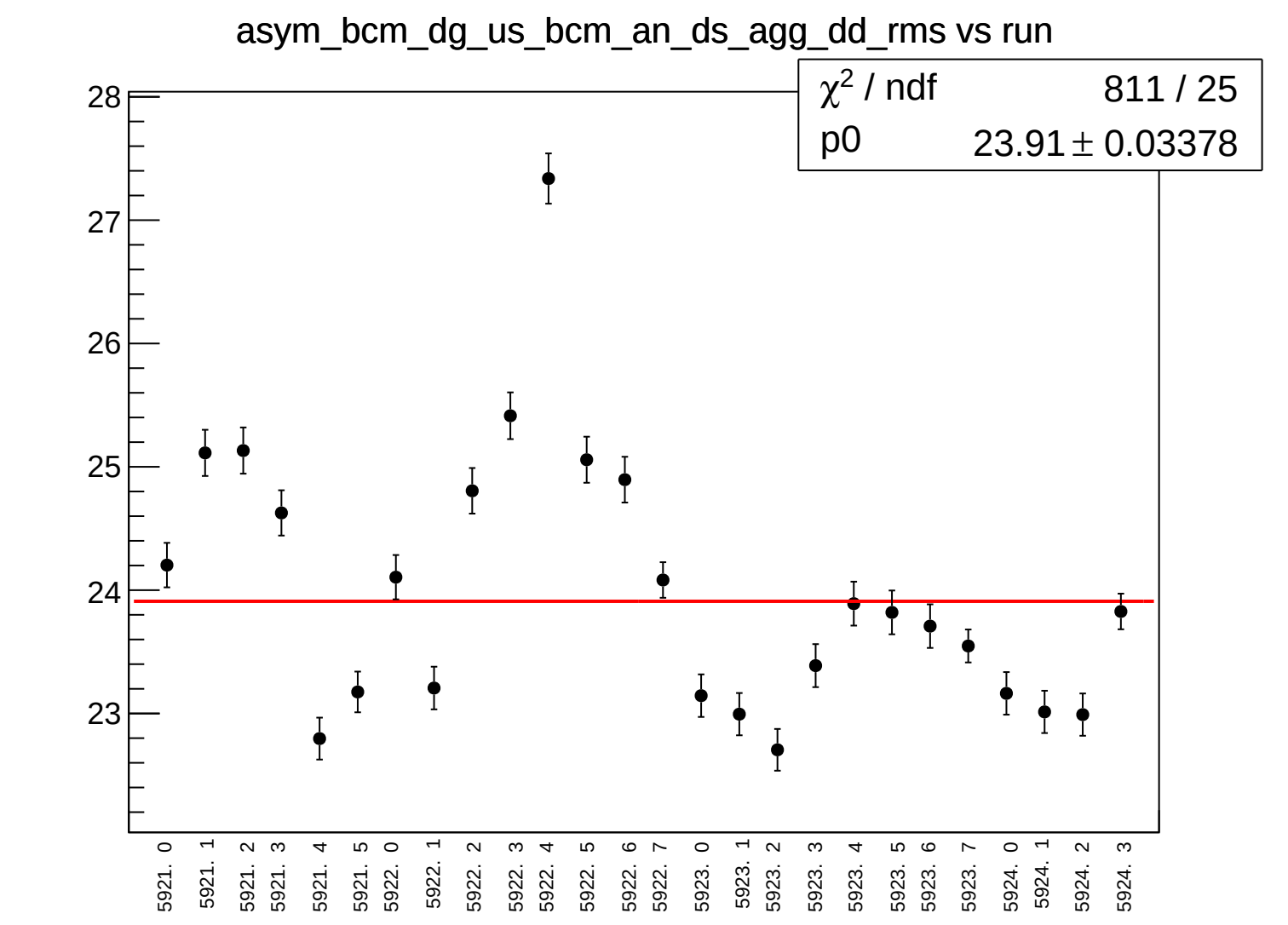

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 2.673 / 25
p0 −295.5 ± 493.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −73.88
Std Dev 85.76
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

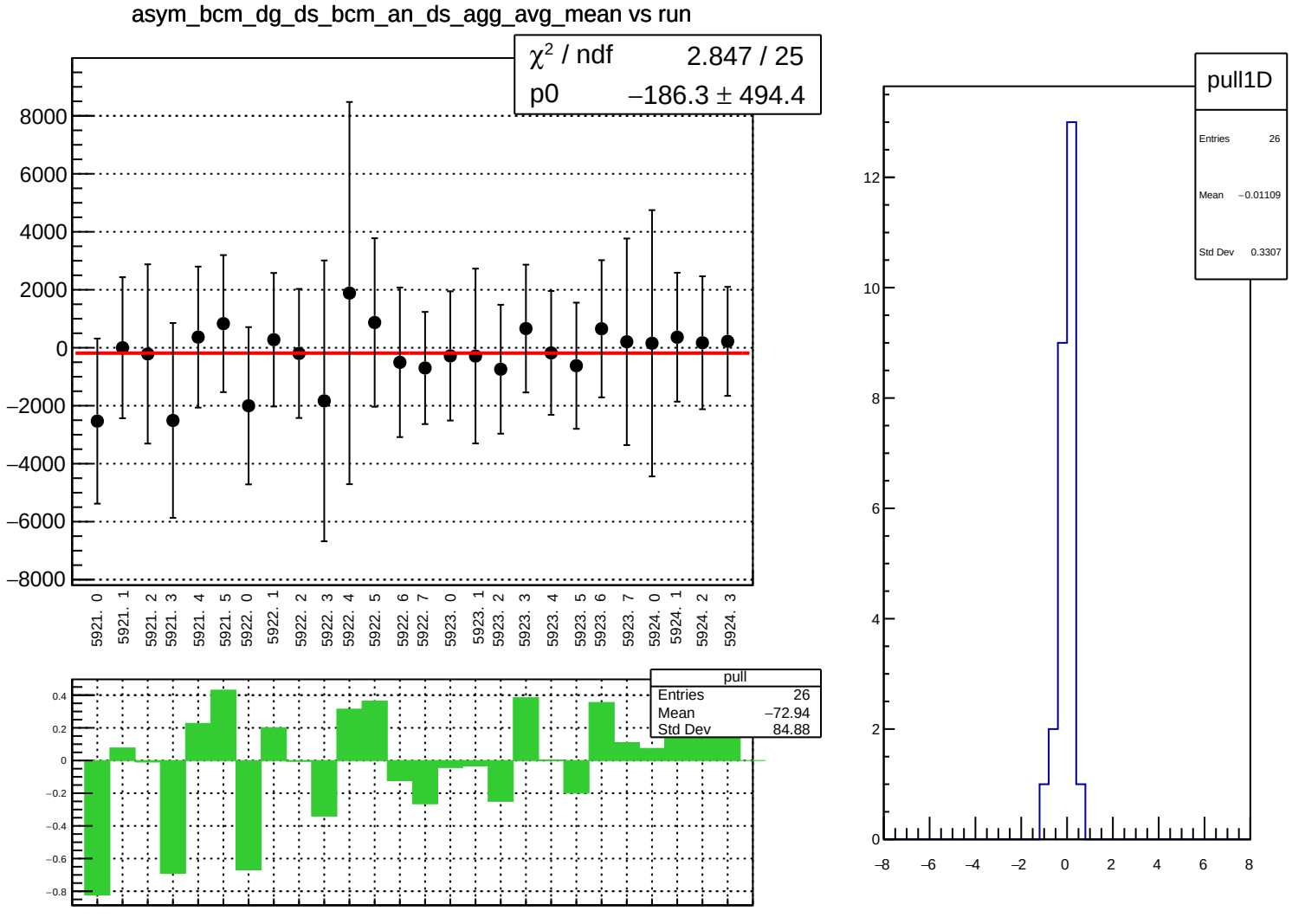

pull1D
Entries 26
Mean −0.01234
Std Dev 0.3204
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

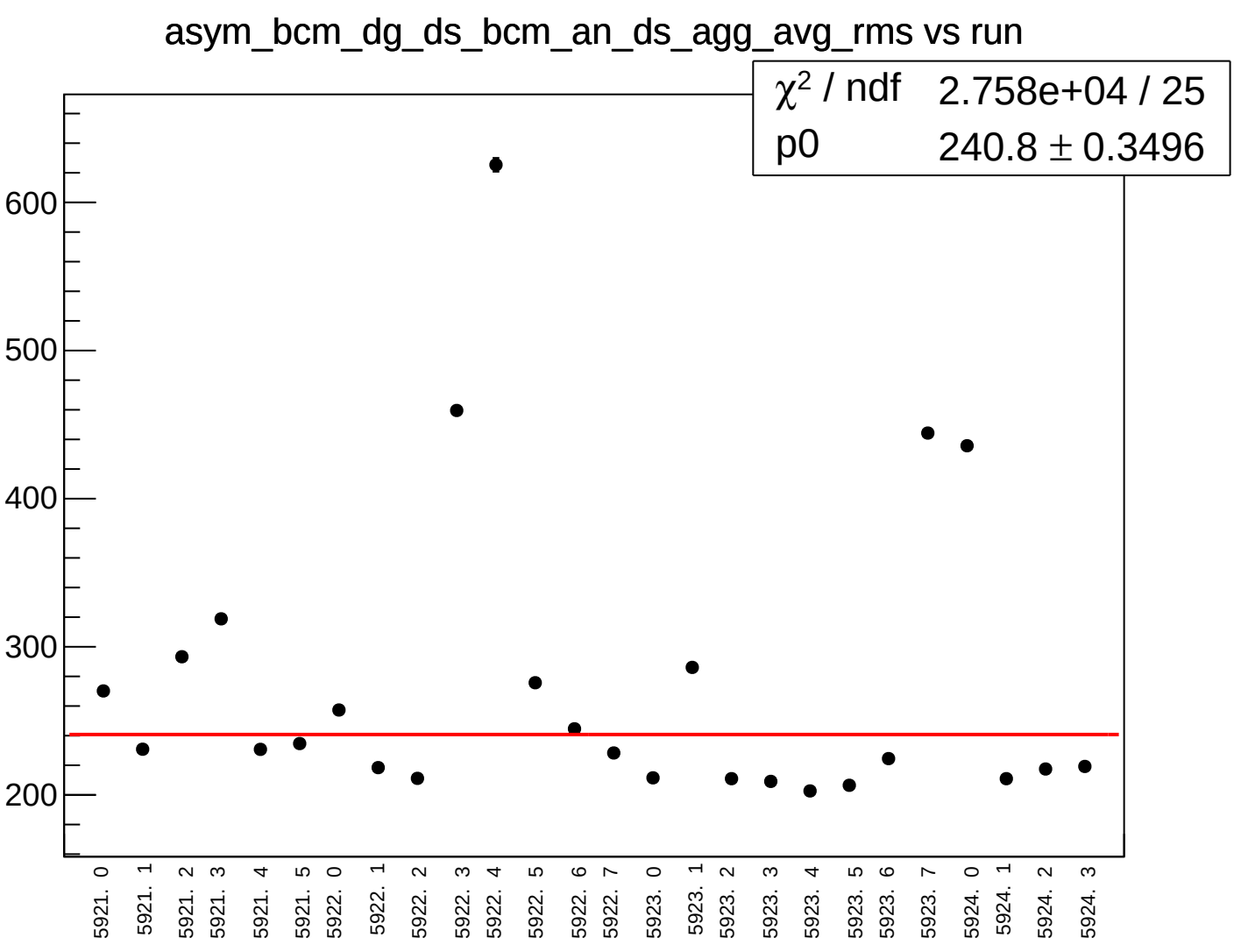

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.752e+04 / 25
p0 240.5 ± 0.3492
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

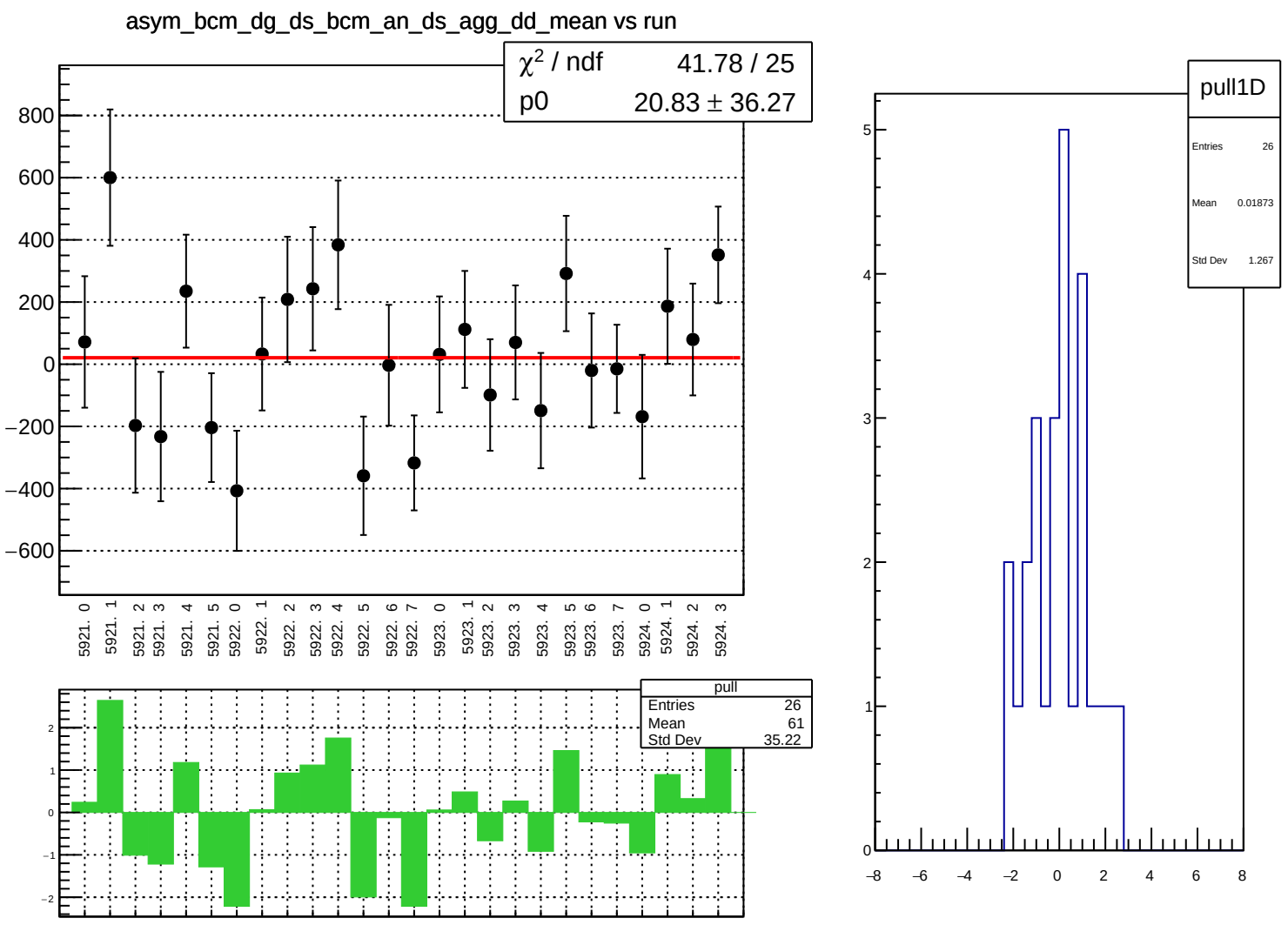

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 25.19 / 25
p0 −85.95 ± 47.77
600
400
200
0
−200
−400
−600
−800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −96.37
Std Dev 113.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

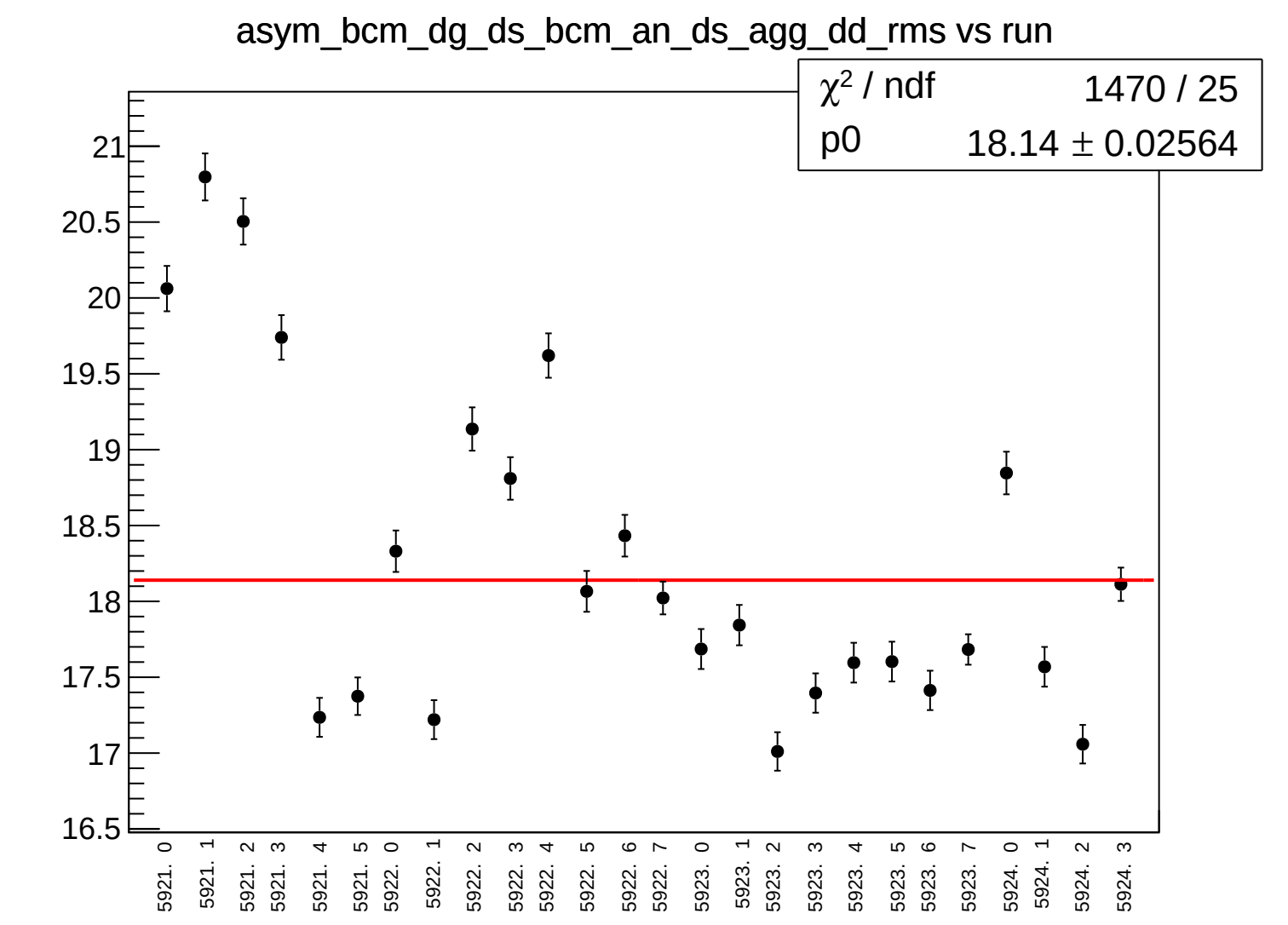

pull1D
Entries 26
Mean −0.01638
Std Dev 0.9841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

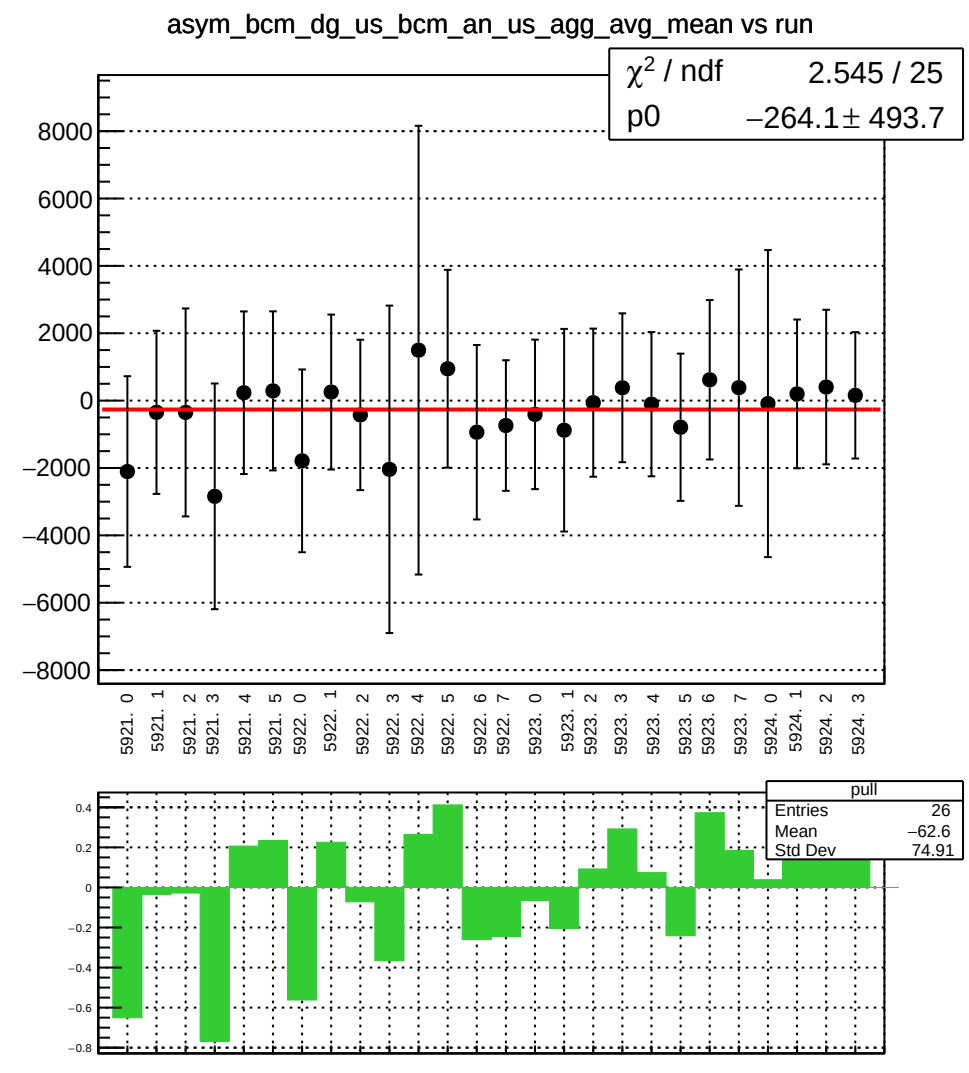

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 811 / 25
p0 23.91 ± 0.03378
28
27
26
25
24
23
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

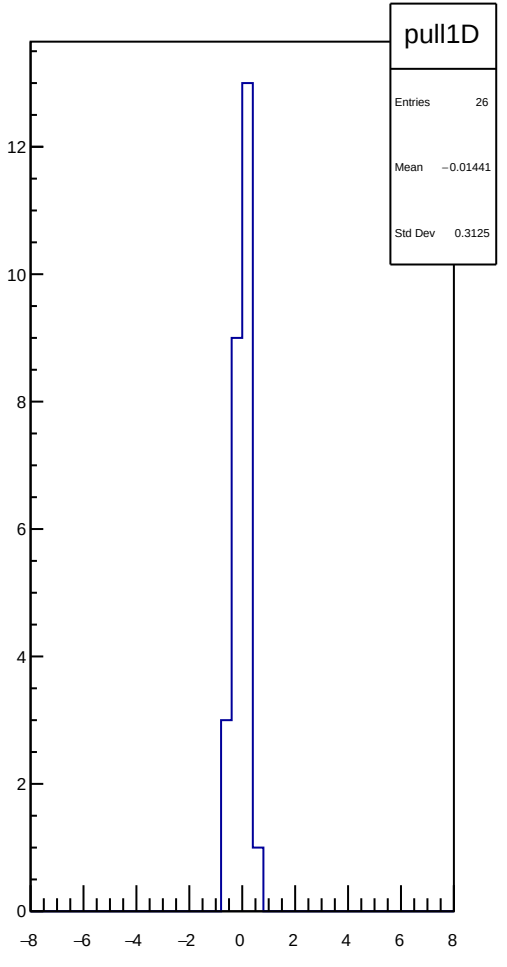

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 2.847 / 25
p0 −186.3 ± 494.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −72.94
Std Dev 84.88
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.01109
Std Dev 0.3307
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

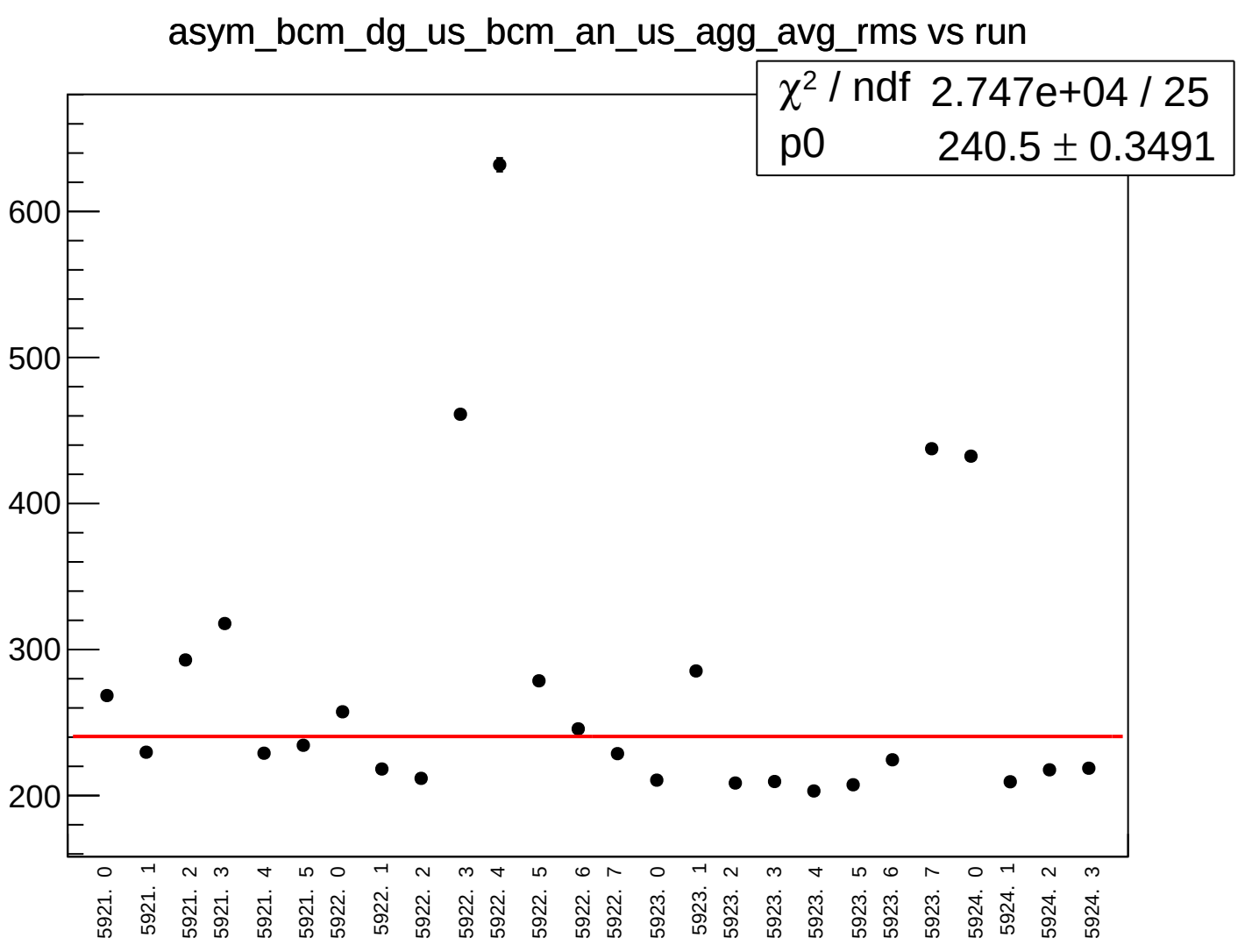

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.758e+04 / 25
p0 240.8 ± 0.3496
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

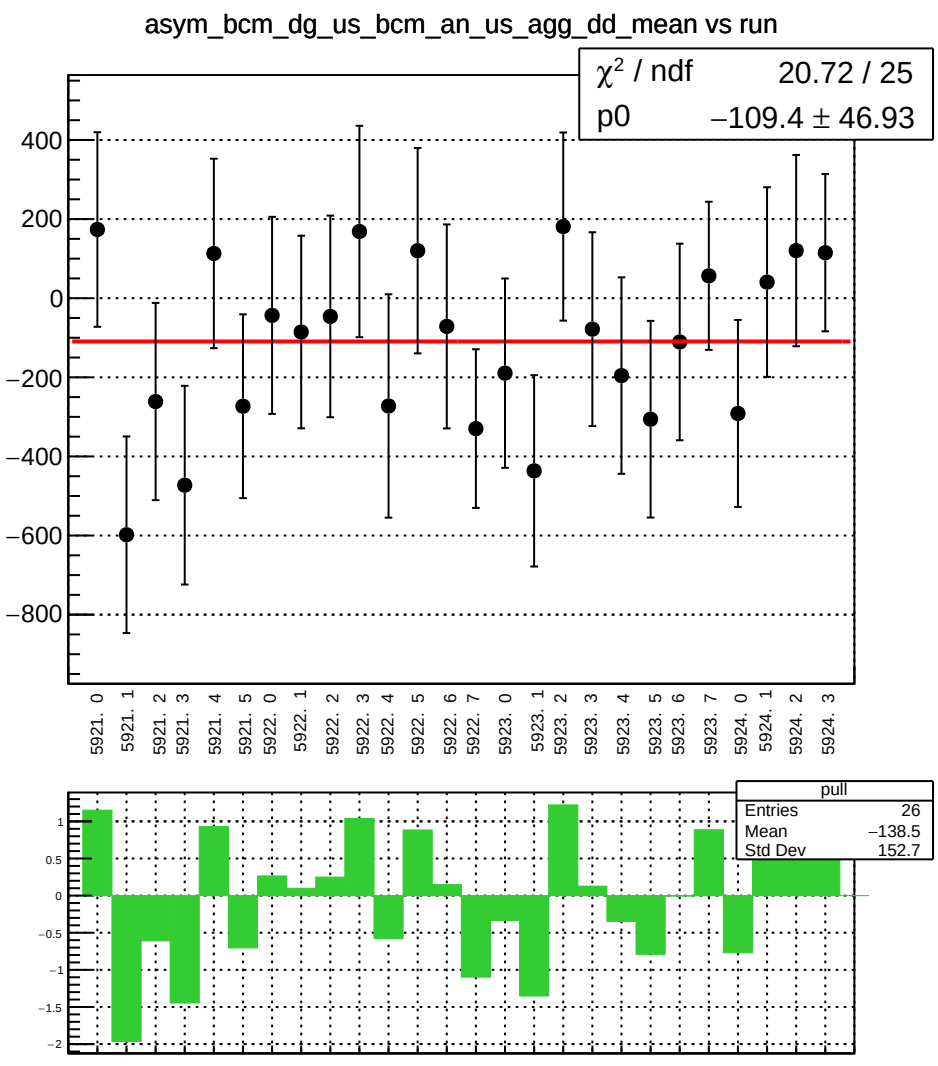

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.78 / 25
p0 20.83 ± 36.27
800
600
400
200
0
−200
−400
−600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 61
Std Dev 35.22
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.01873
Std Dev 1.267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

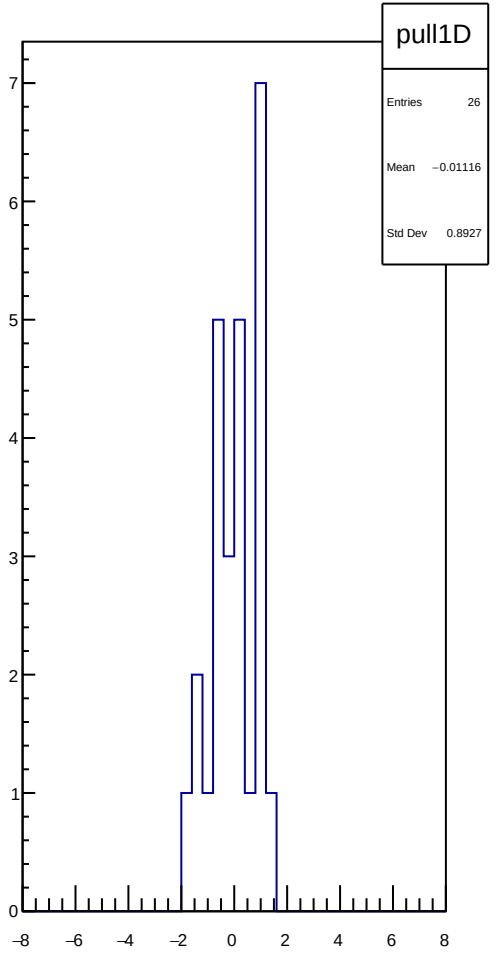

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1470 / 25
p0 18.14 ± 0.02564
21
20.5
20
19.5
19
18.5
18
17.5
17
16.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

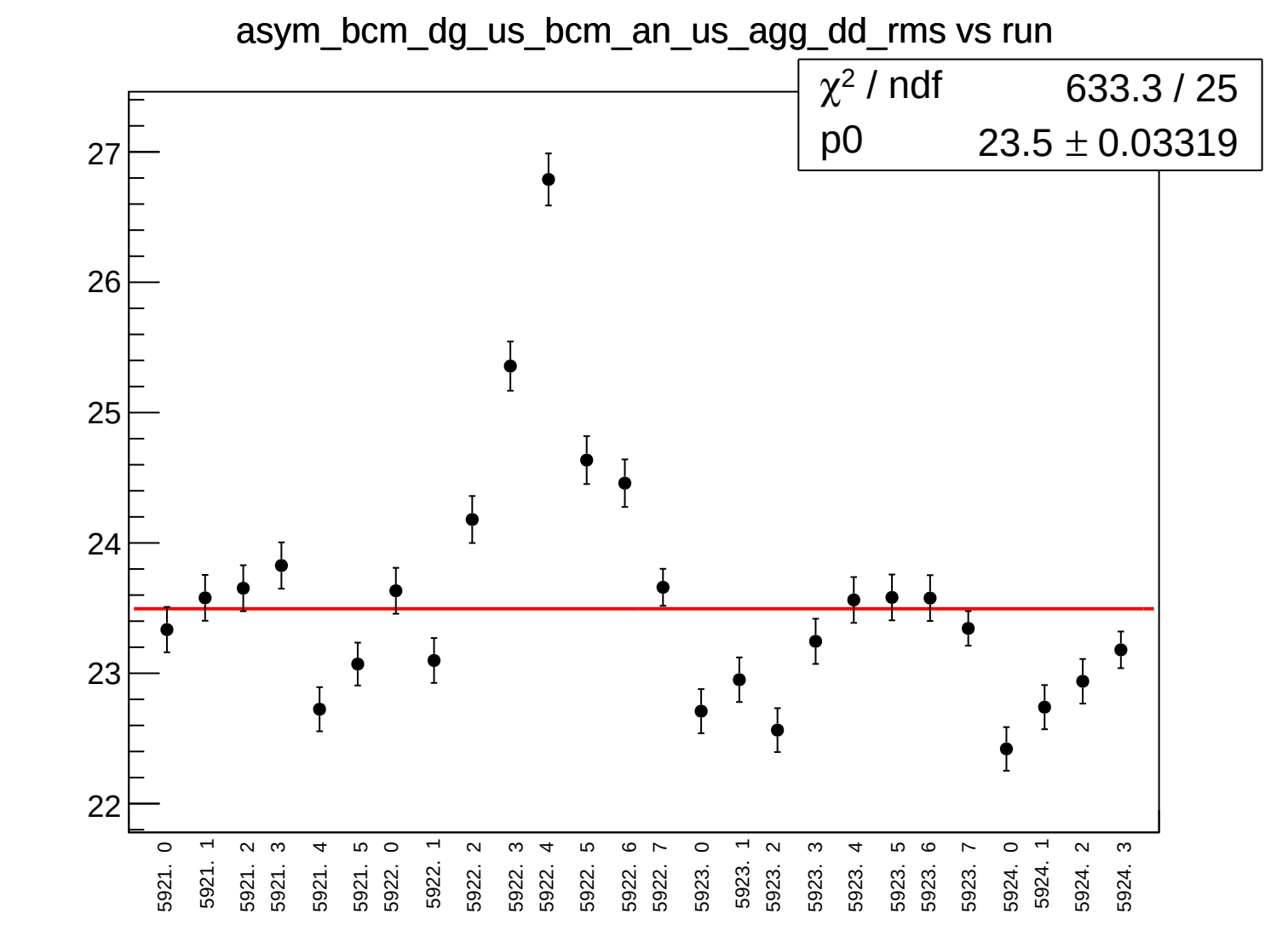

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 2.545 / 25
p0 −264.1 ± 493.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −62.6
Std Dev 74.91
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

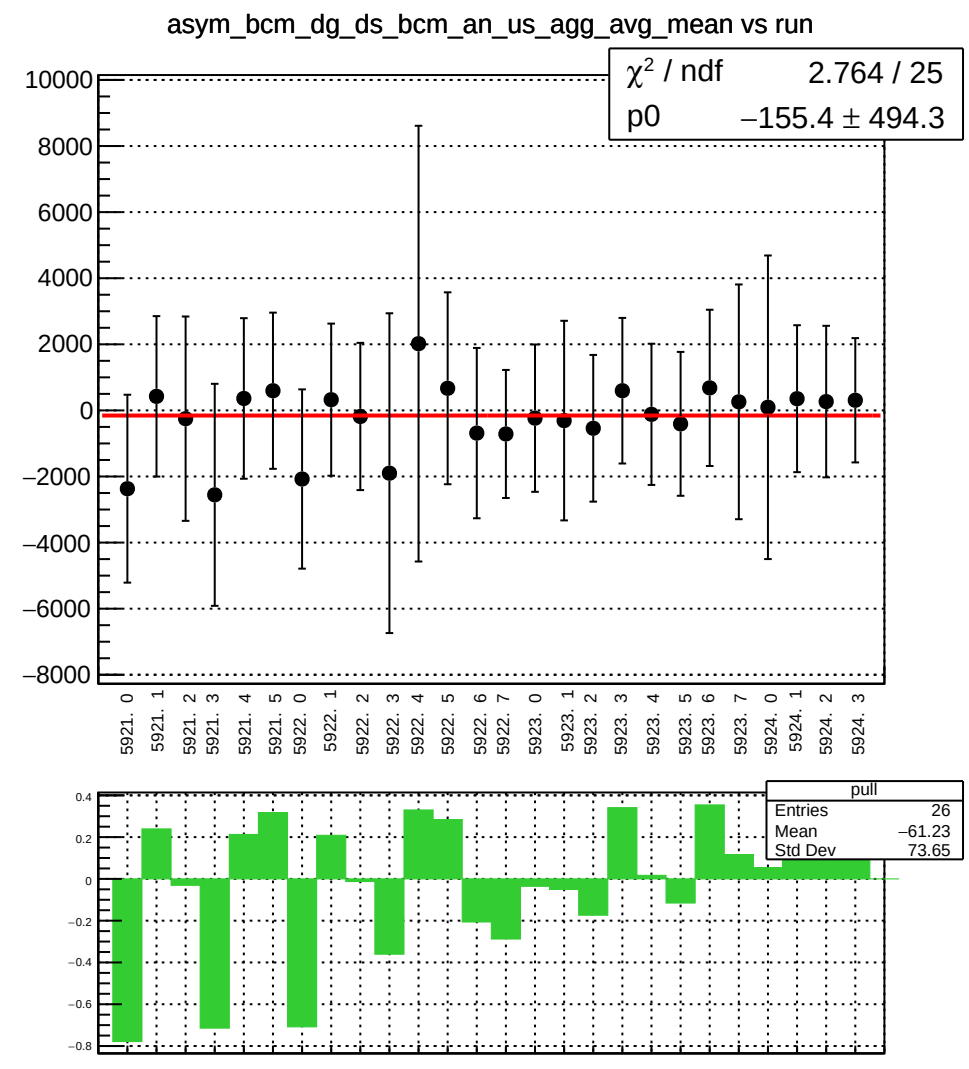

pull1D
Entries 26
Mean −0.01441
Std Dev 0.3125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

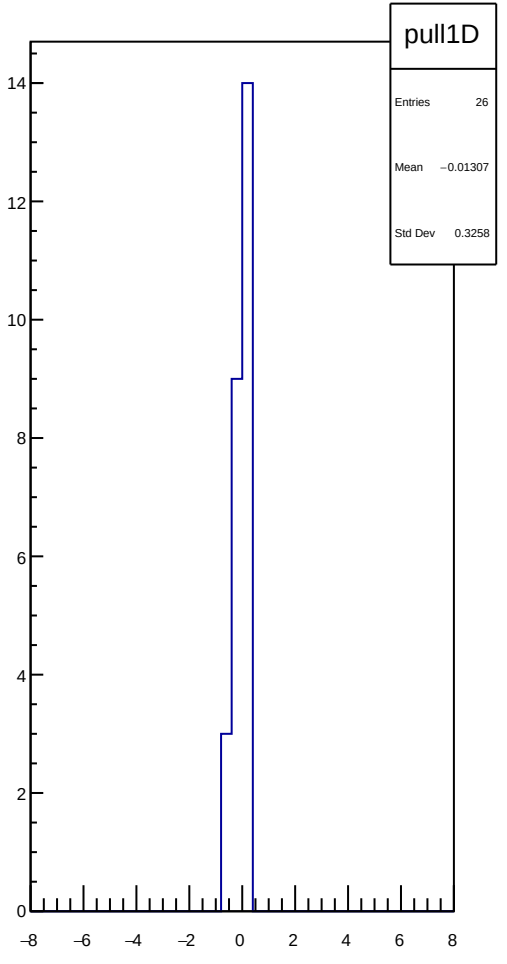

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.747e+04 / 25
p0 240.5 ± 0.3491
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

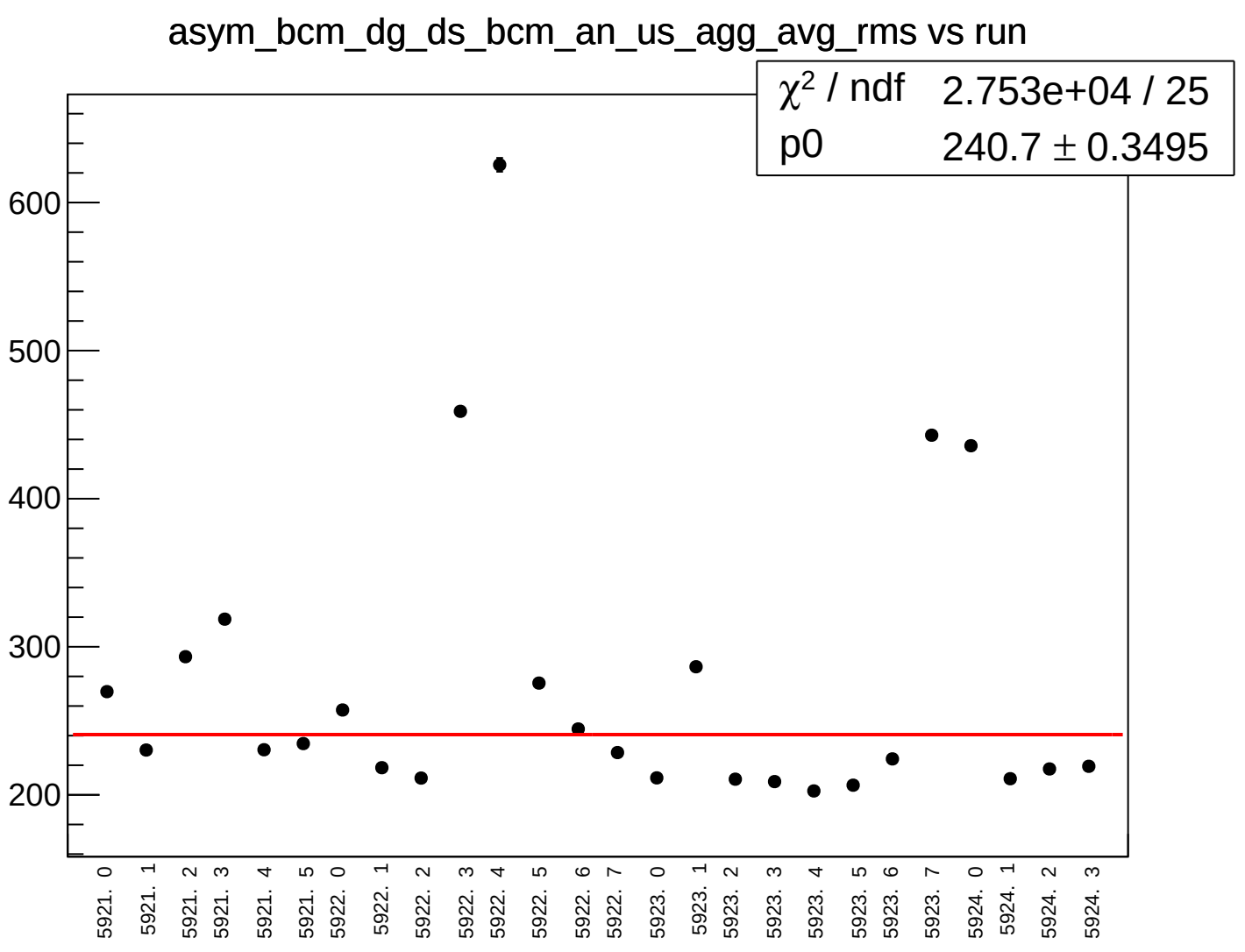

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 20.72 / 25
p0 −109.4 ± 46.93
400
200
0
−200
−400
−600
−800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −138.5
Std Dev 152.7
1
0.5
0
−0.5
−1
−1.5
−2

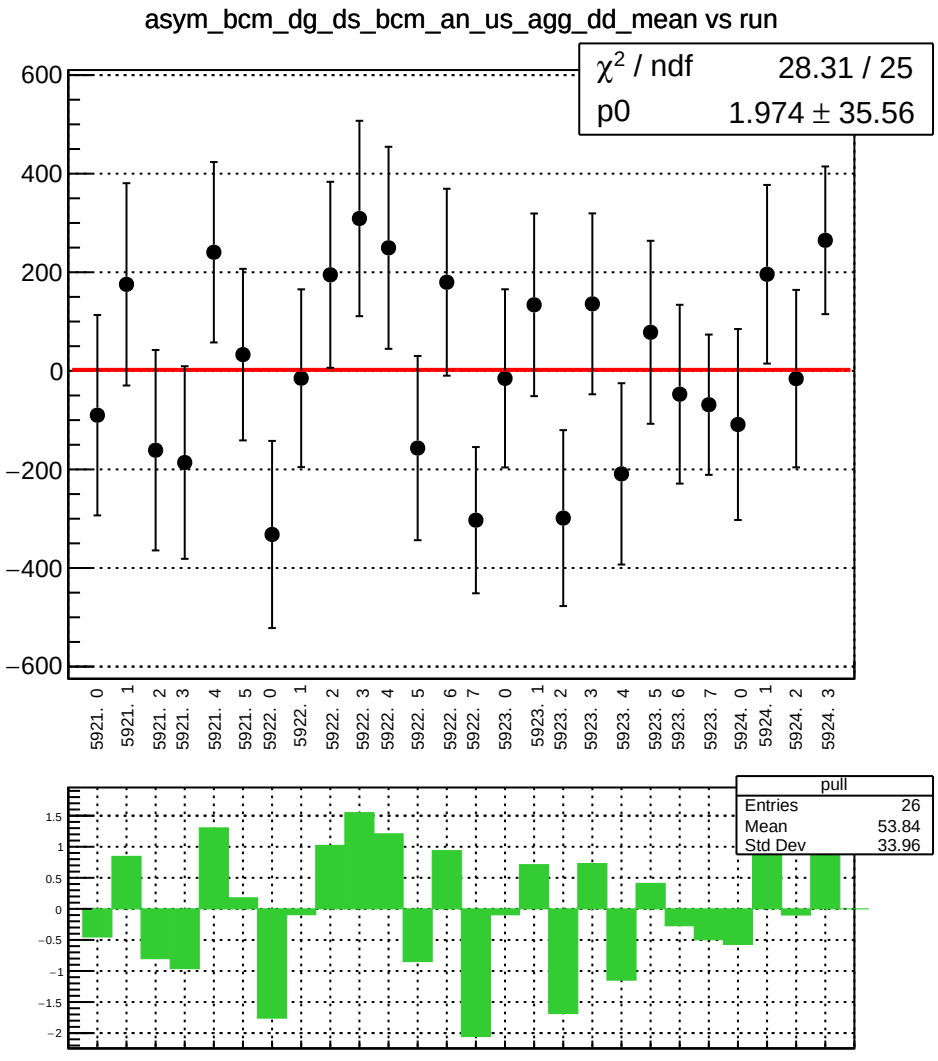

pull1D
Entries 26
Mean −0.01116
Std Dev 0.8927
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

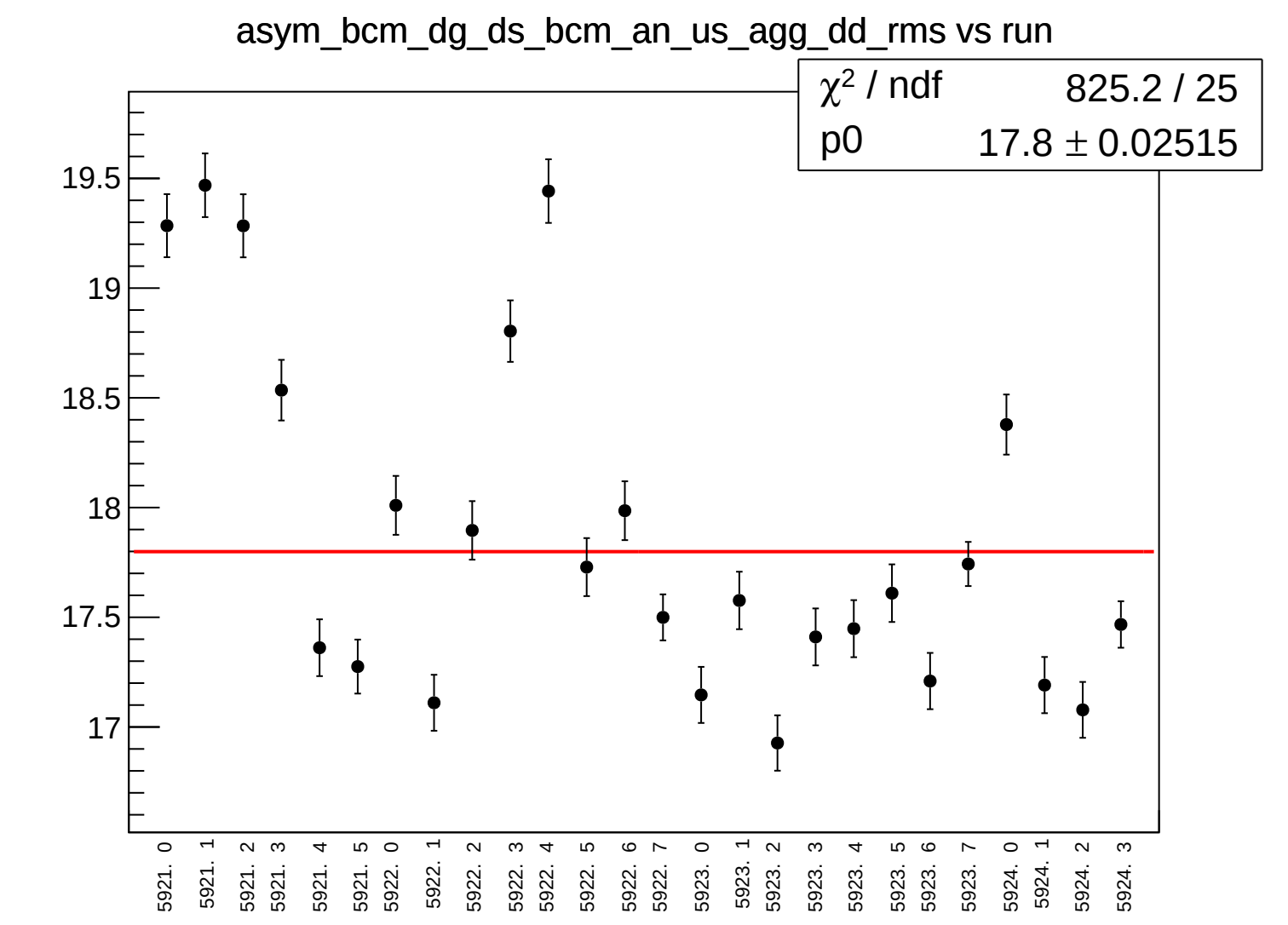

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 633.3 / 25
p0 23.5 ± 0.03319
27
26
25
24
23
22
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

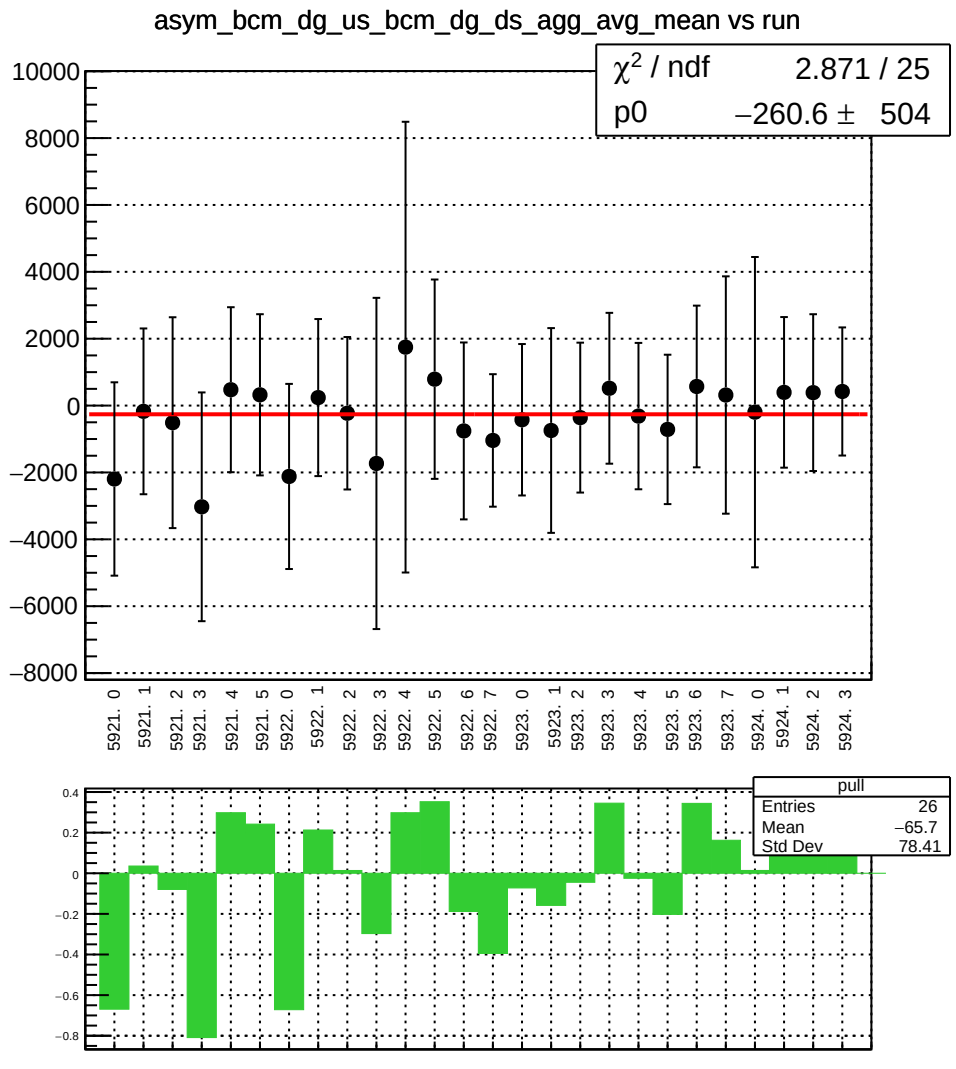

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 2.764 / 25
p0 −155.4 ± 494.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −61.23
Std Dev 73.65
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

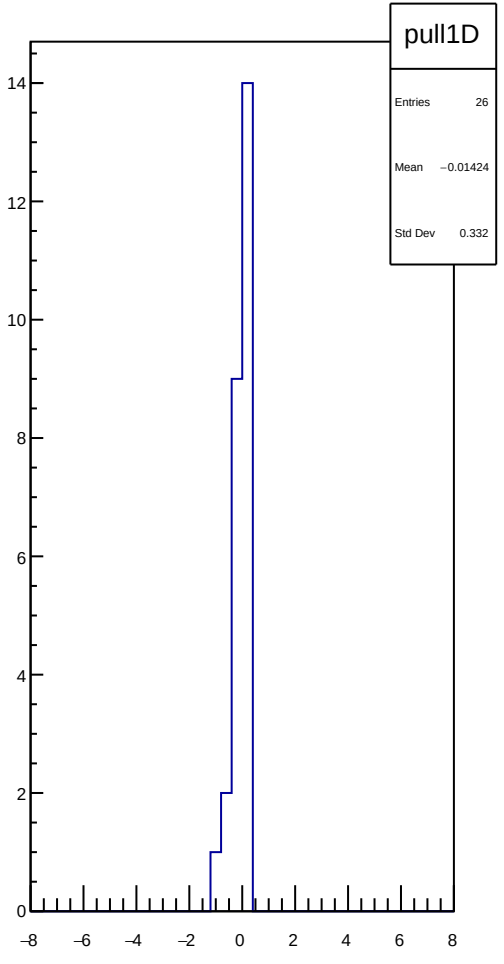

pull1D
Entries 26
Mean −0.01307
Std Dev 0.3258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

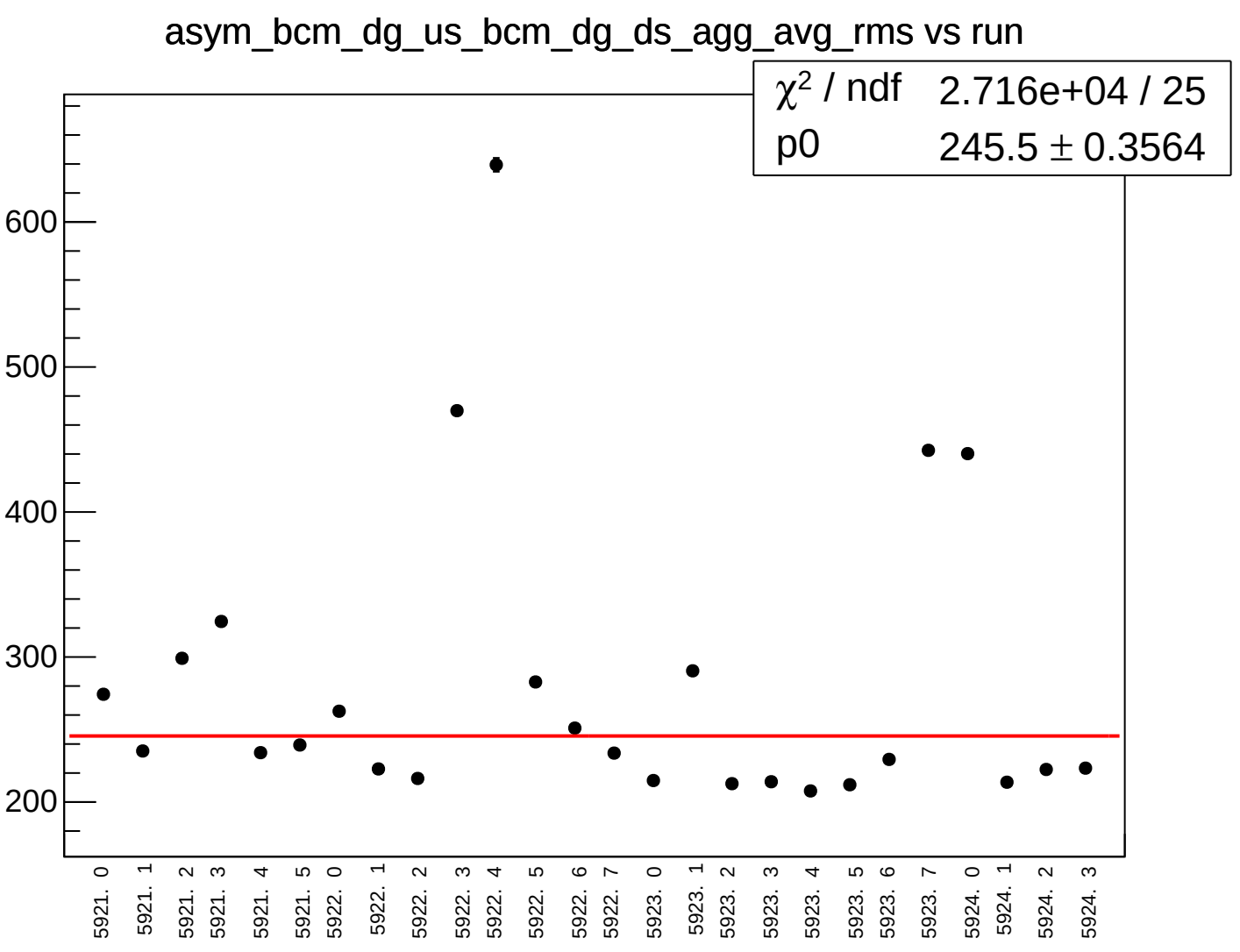

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.753e+04 / 25
p0 240.7 ± 0.3495
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

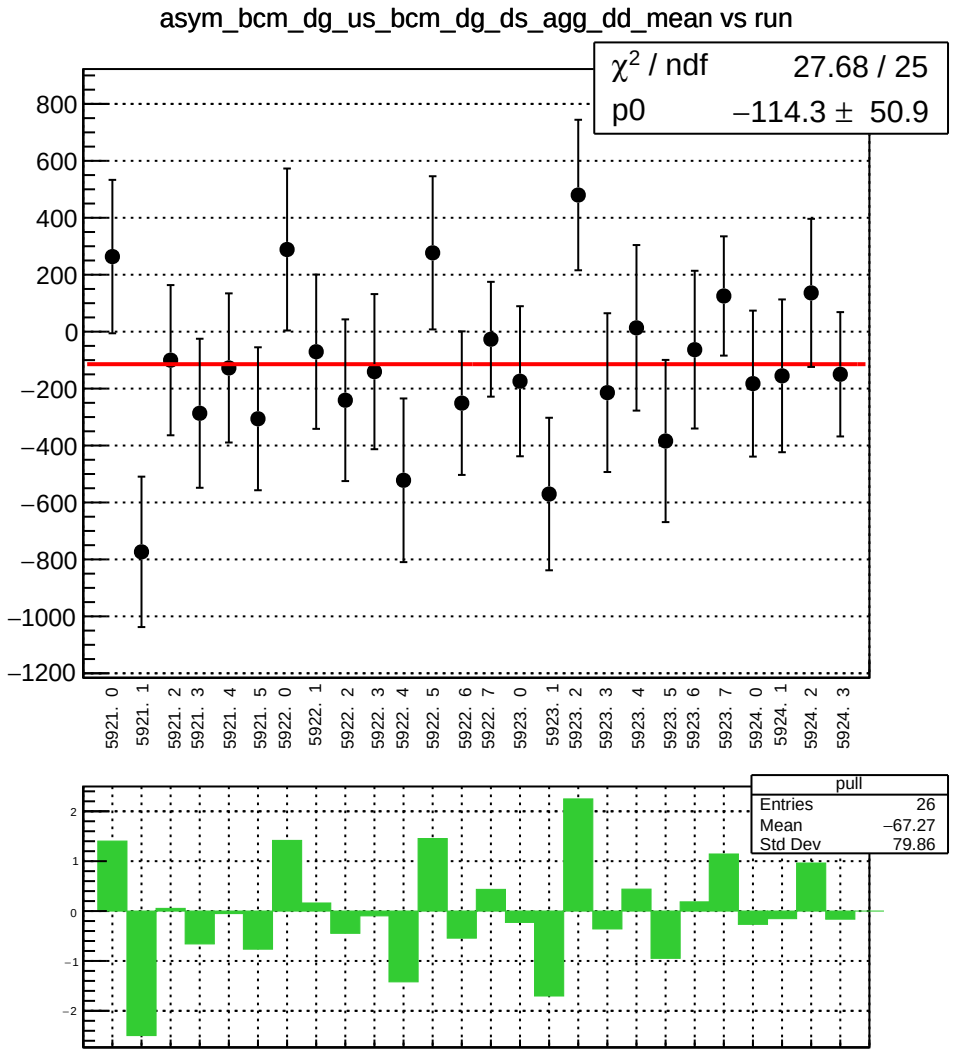

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 28.31 / 25
p0 1.974 ± 35.56
600
400
200
0
−200
−400
−600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 53.84
Std Dev 33.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.01458
Std Dev 1.043
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

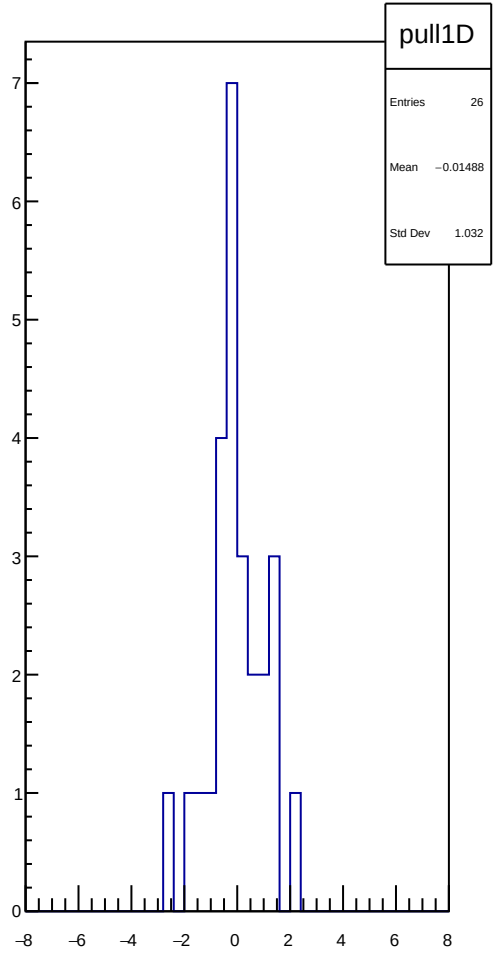

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 825.2 / 25
p0 17.8 ± 0.02515
19.5
19
18.5
18
17.5
17
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

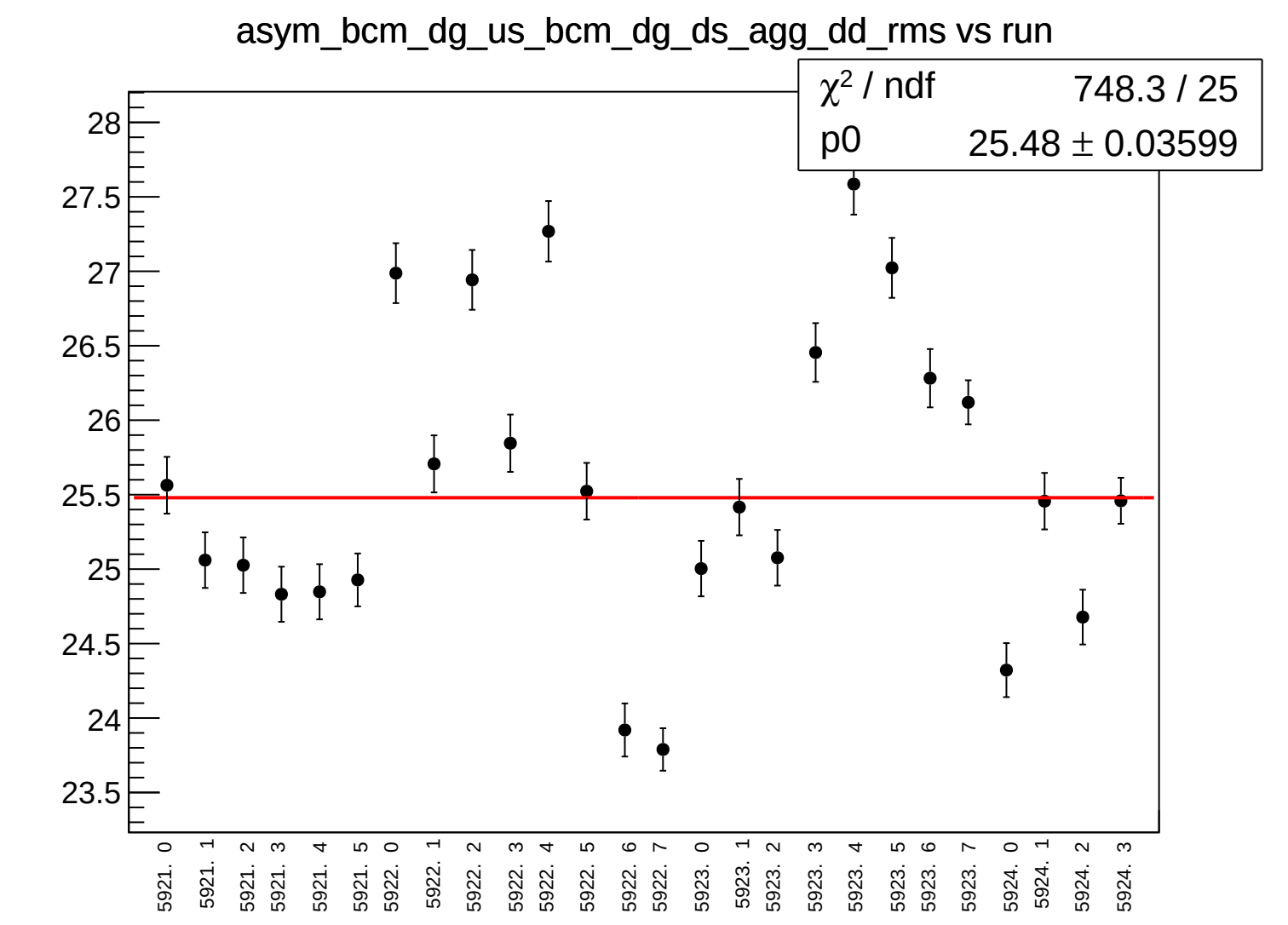

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 2.871 / 25
p0 −260.6 ± 504
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −65.7
Std Dev 78.41
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

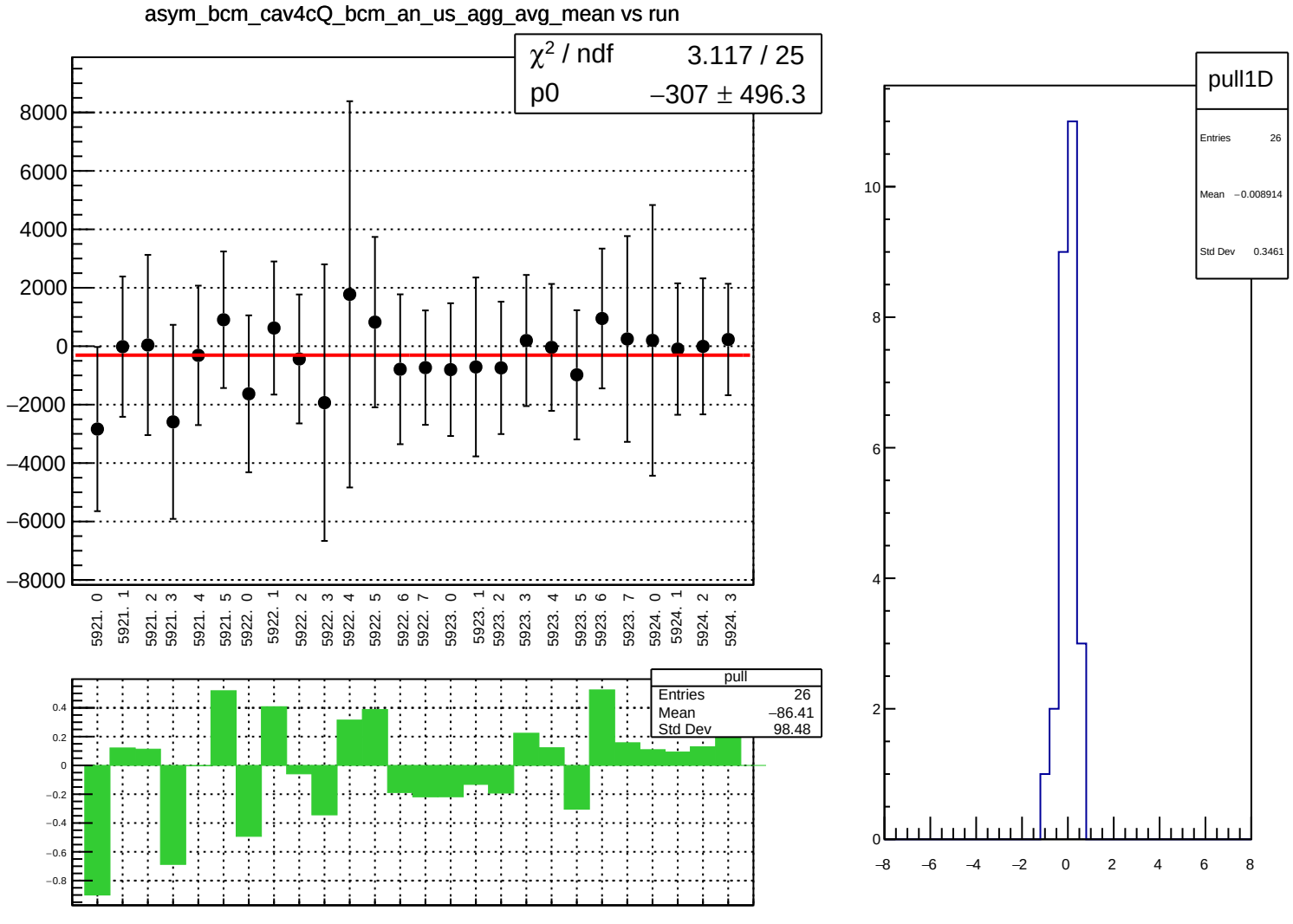

pull1D
Entries 26
Mean −0.01424
Std Dev 0.332
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

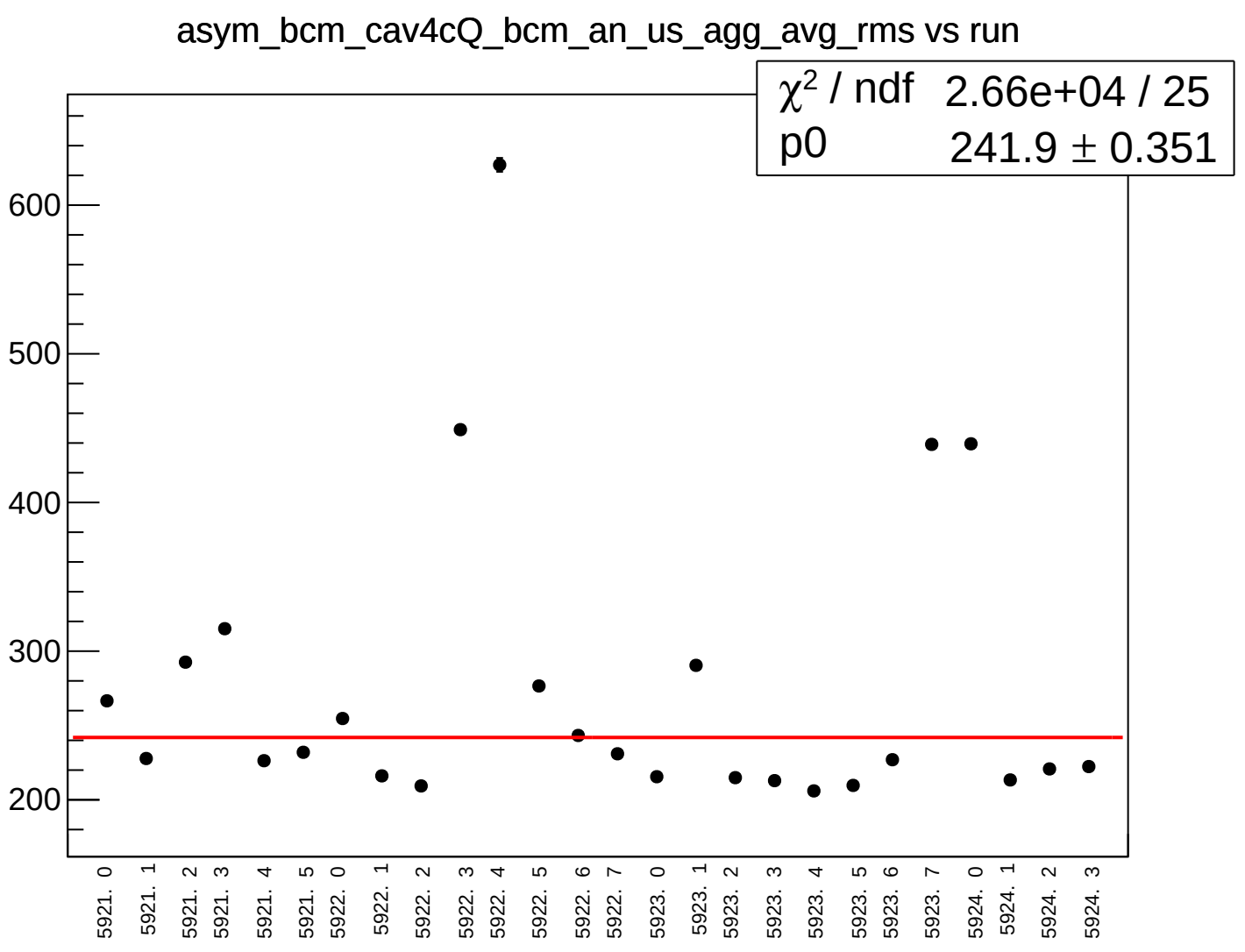

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.716e+04 / 25
p0 245.5 ± 0.3564
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

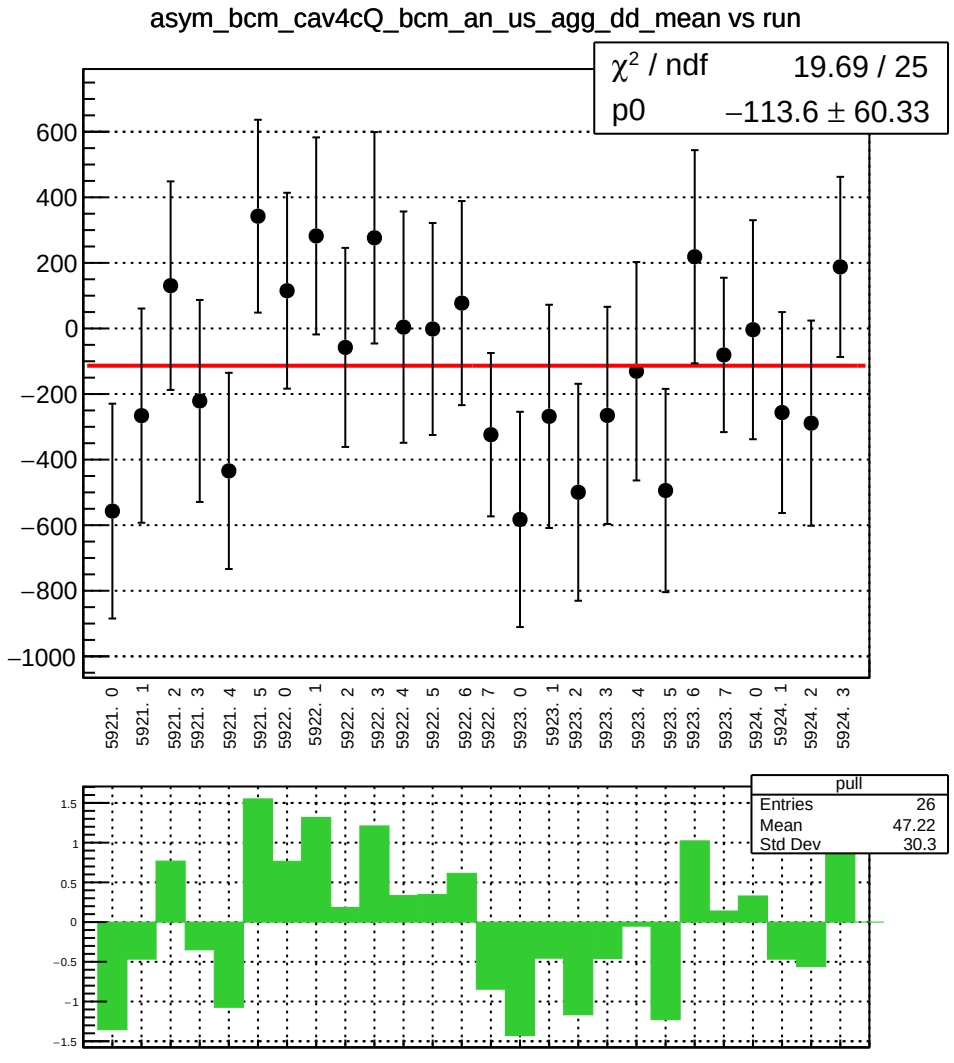

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 27.68 / 25
p0 −114.3 ± 50.9
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −67.27
Std Dev 79.86
2
1
0
−1
−2

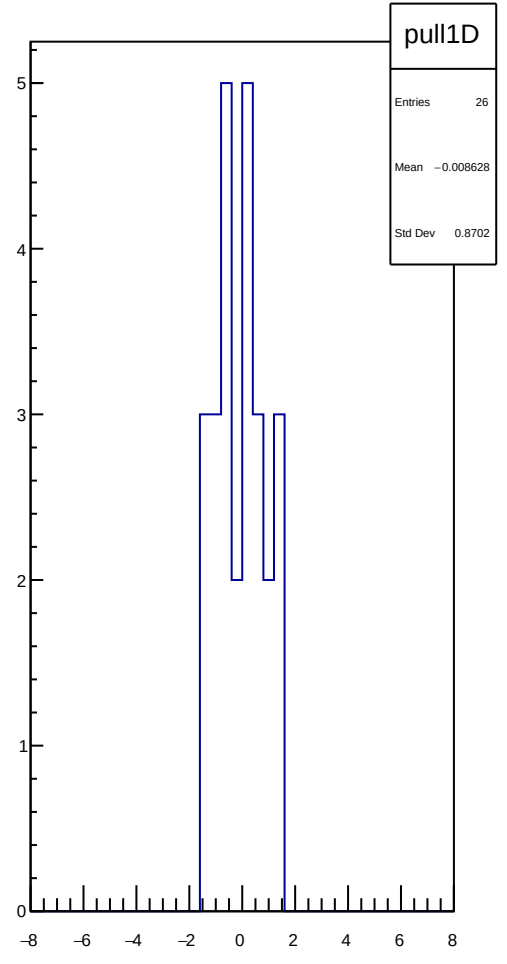

pull1D
Entries 26
Mean −0.01488
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

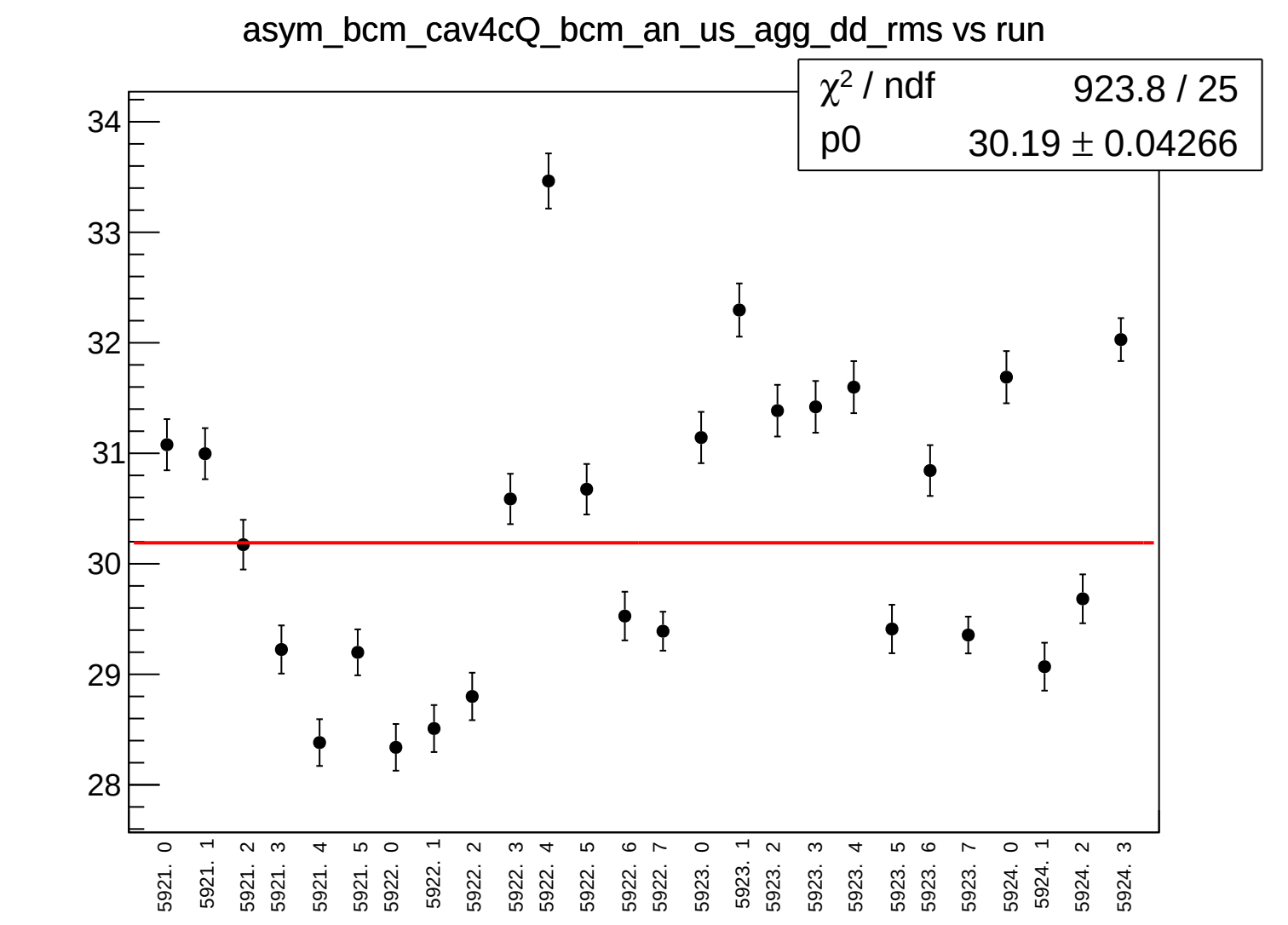

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 748.3 / 25
p0 25.48 ± 0.03599
28
27.5
27
26.5
26
25.5
25
24.5
24
23.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

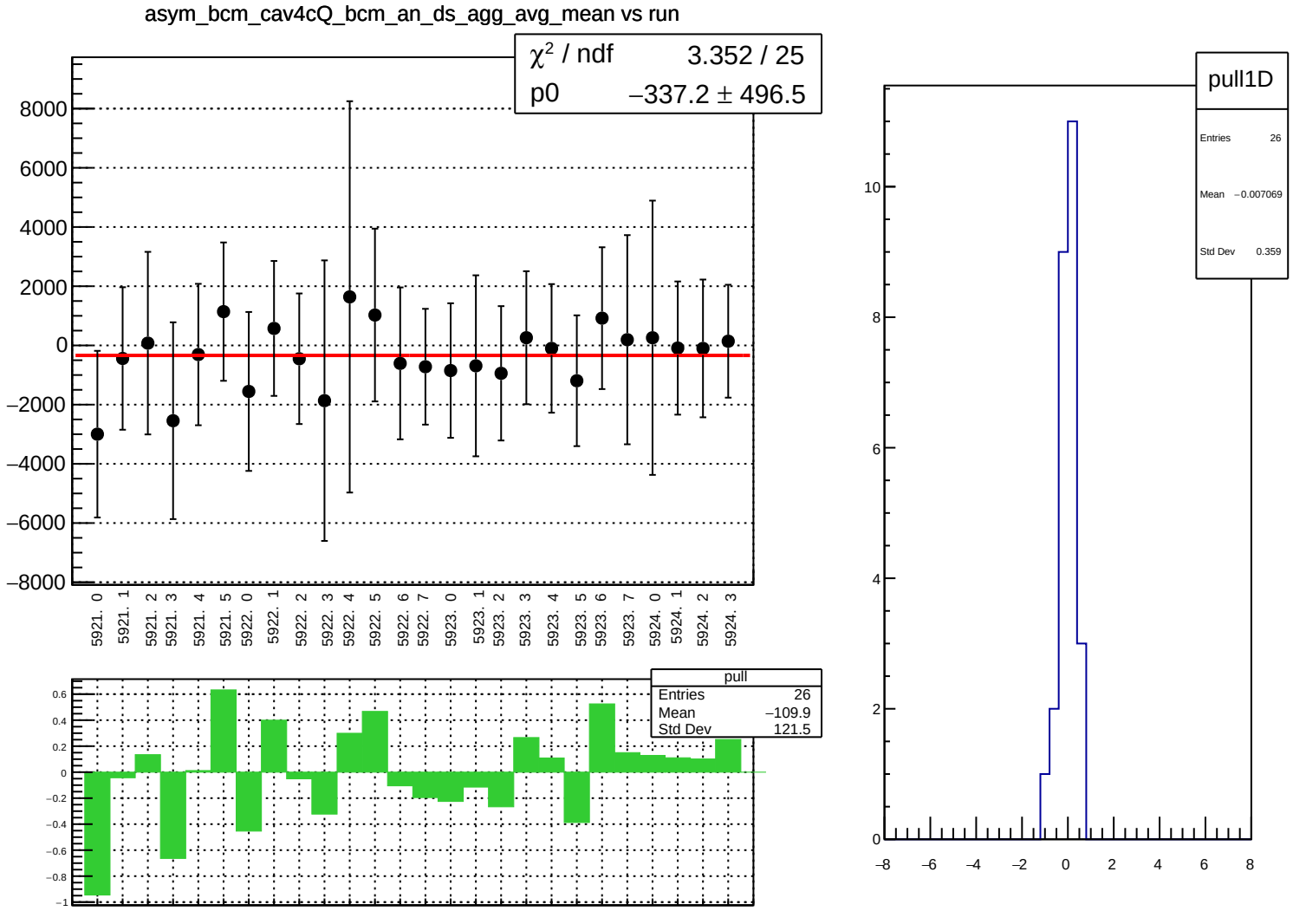

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.117 / 25
p0 −307 ± 496.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −86.41
Std Dev 98.48
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.008914
Std Dev 0.3461
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

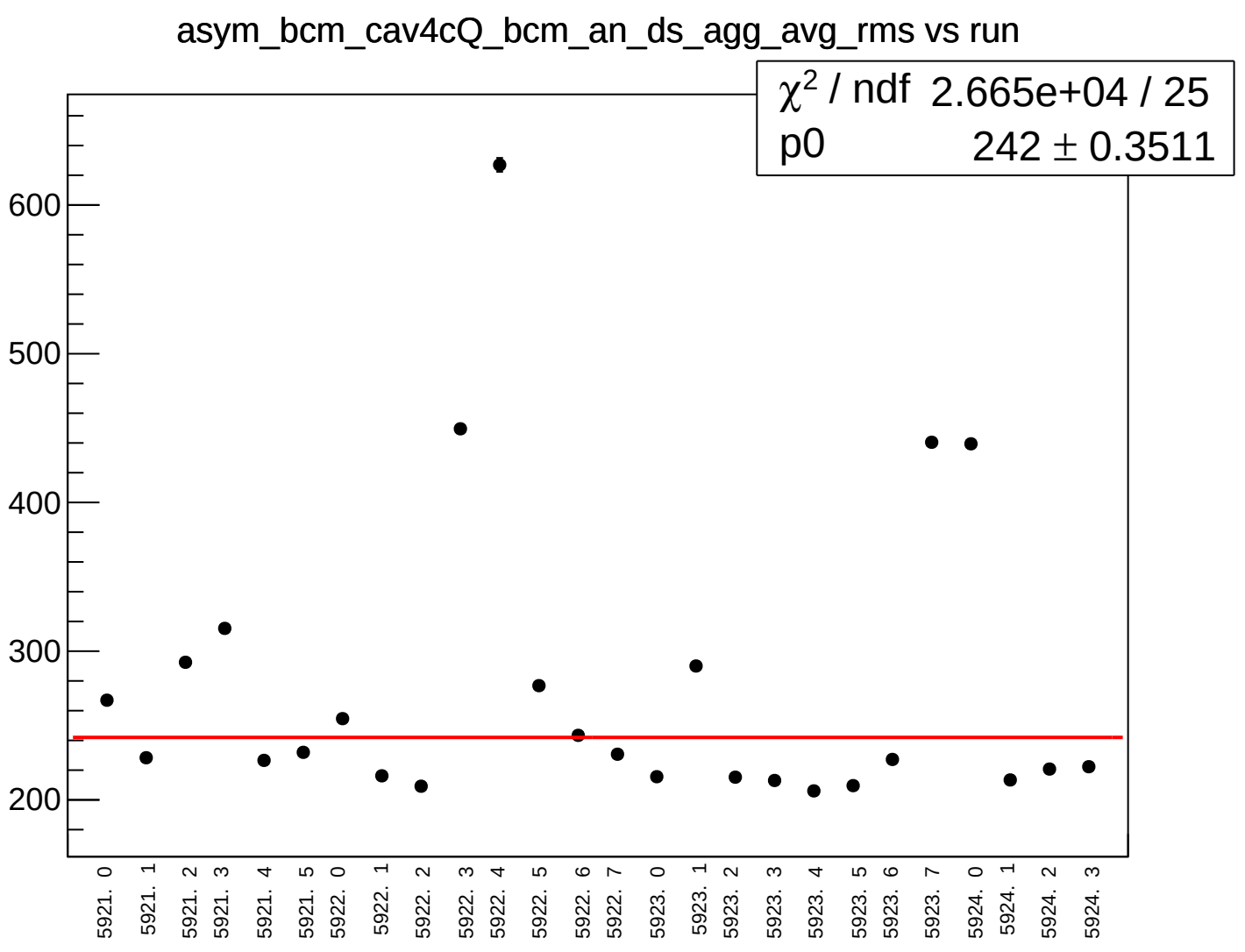

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.66e+04 / 25
p0 241.9 ± 0.351
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

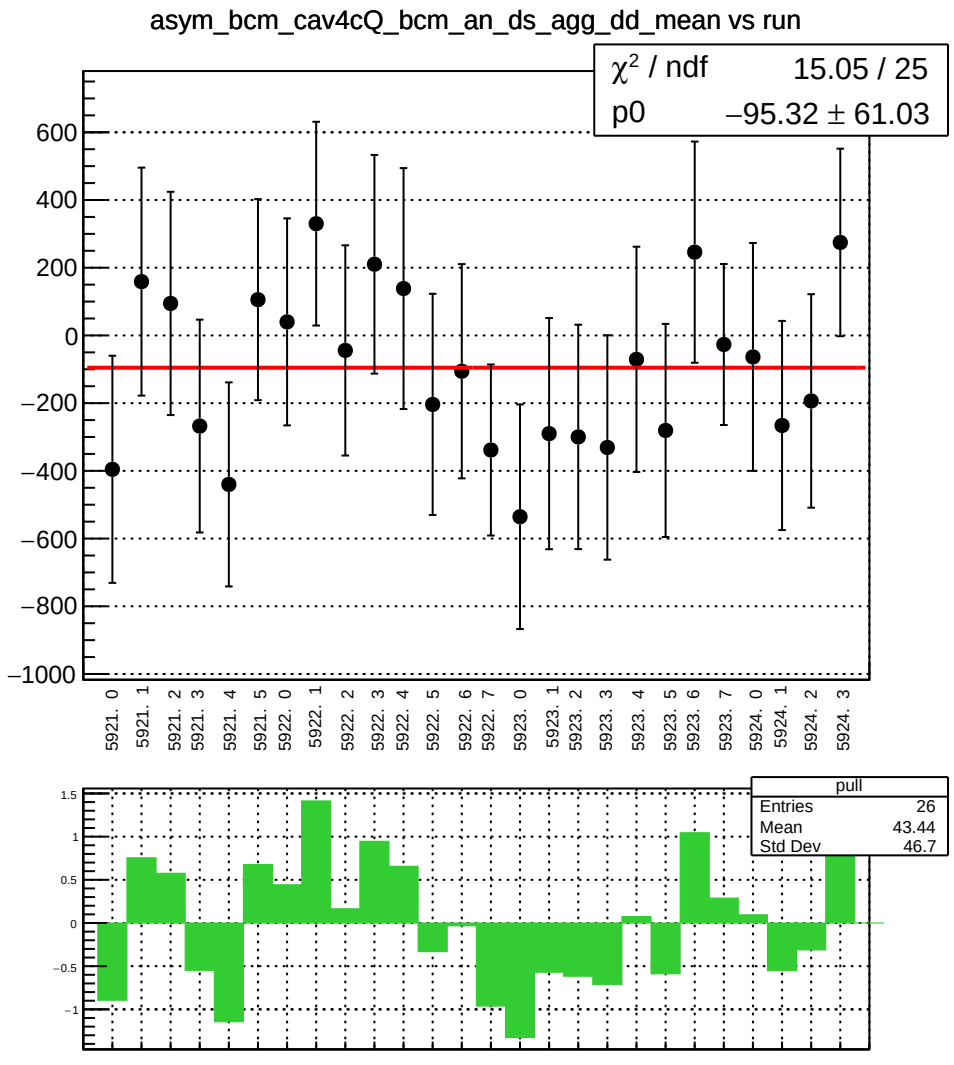

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 19.69 / 25
p0 −113.6 ± 60.33
600
400
200
0
−200
−400
−600
−800
−1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 47.22
Std Dev 30.3
1.5
1
0.5
0
−0.5
−1
−1.5

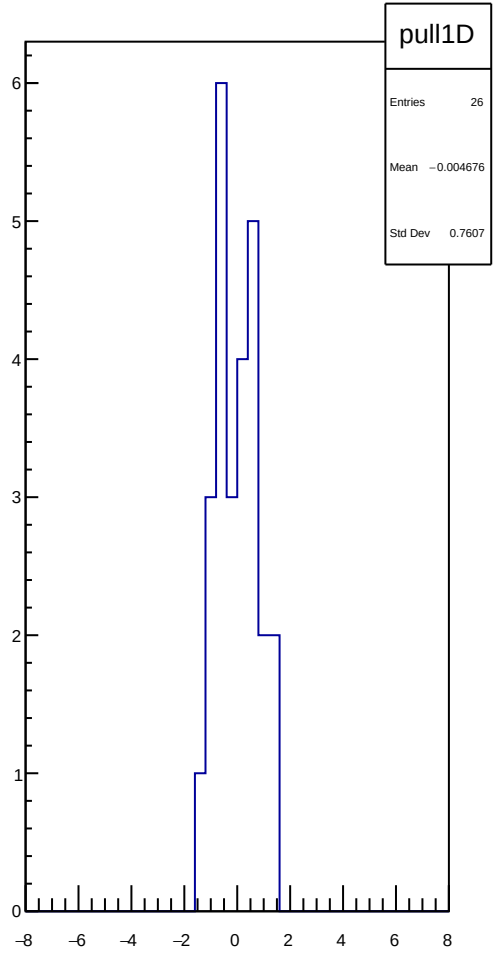

pull1D
Entries 26
Mean −0.008628
Std Dev 0.8702
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

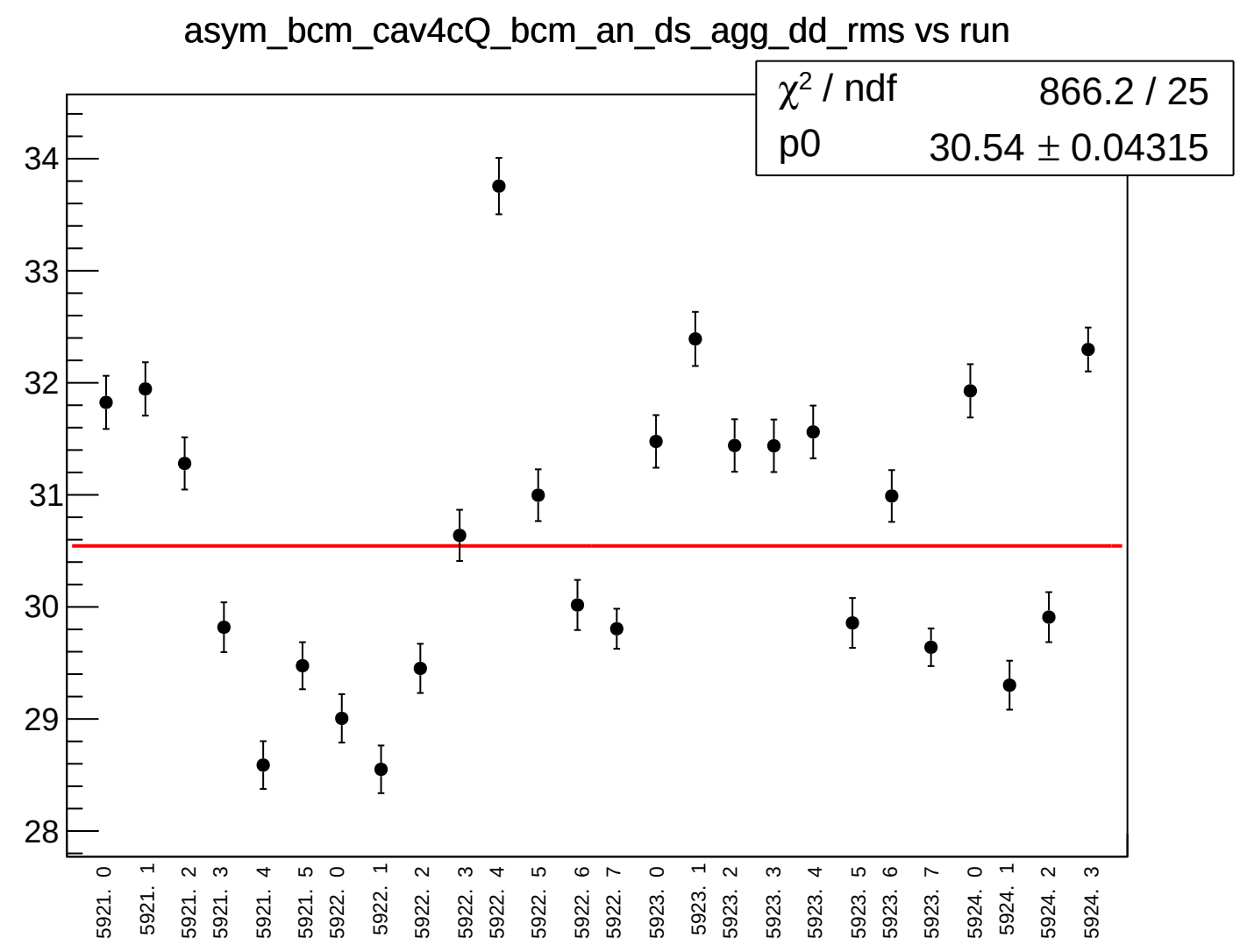

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 923.8 / 25
p0 30.19 ± 0.04266
34
33
32
31
30
29
28
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

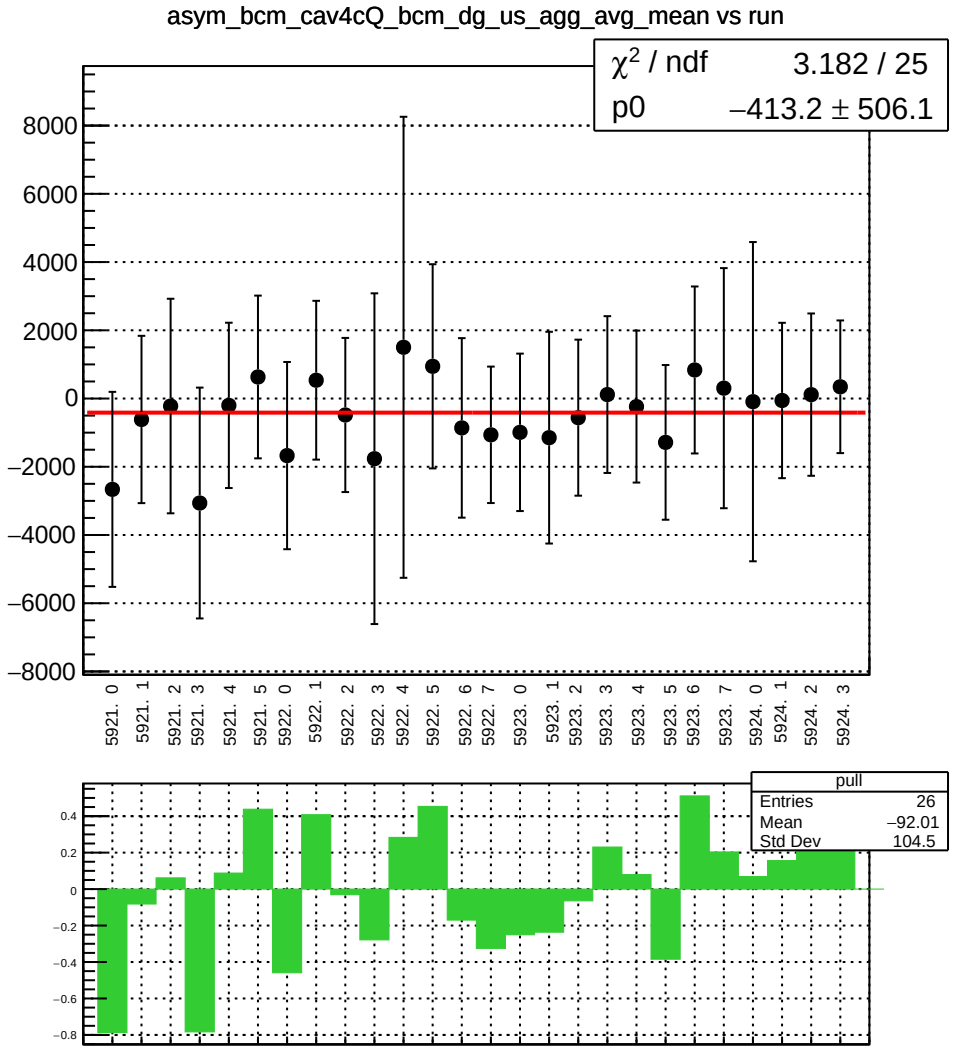

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.352 / 25
p0 −337.2 ± 496.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −109.9
Std Dev 121.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean −0.007069
Std Dev 0.359
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

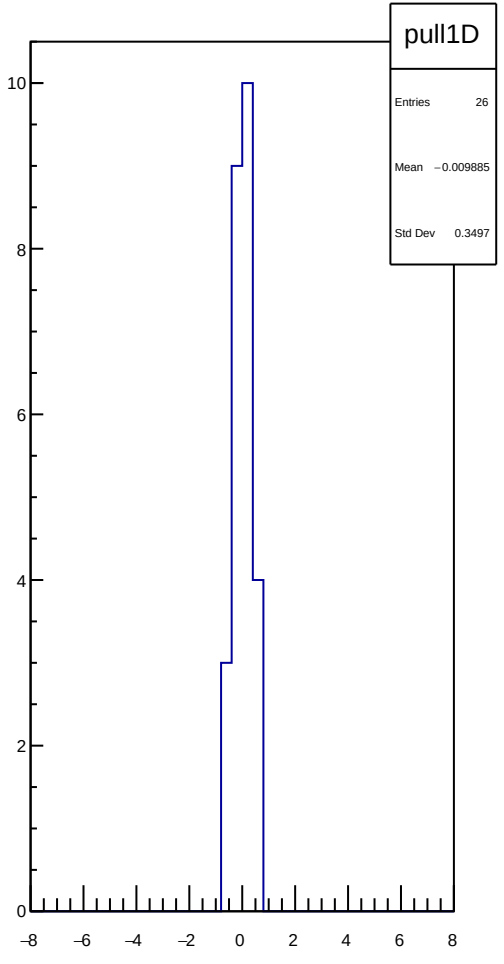

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.665e+04 / 25
p0 242 ± 0.3511
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

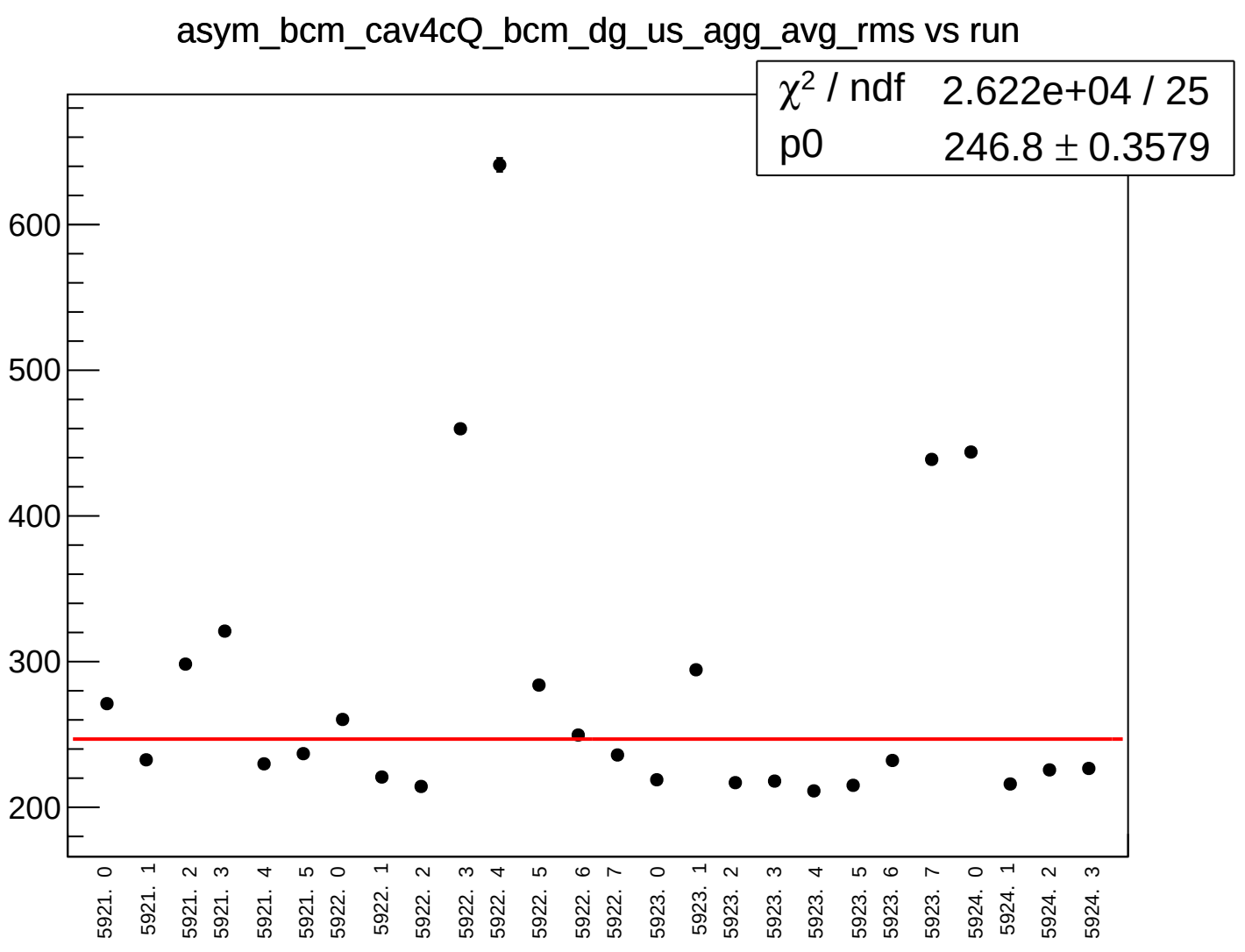

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 15.05 / 25
p0 −95.32 ± 61.03
600
400
200
0
−200
−400
−600
−800
−1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 43.44
Std Dev 46.7
1.5
1
0.5
0
−0.5
−1

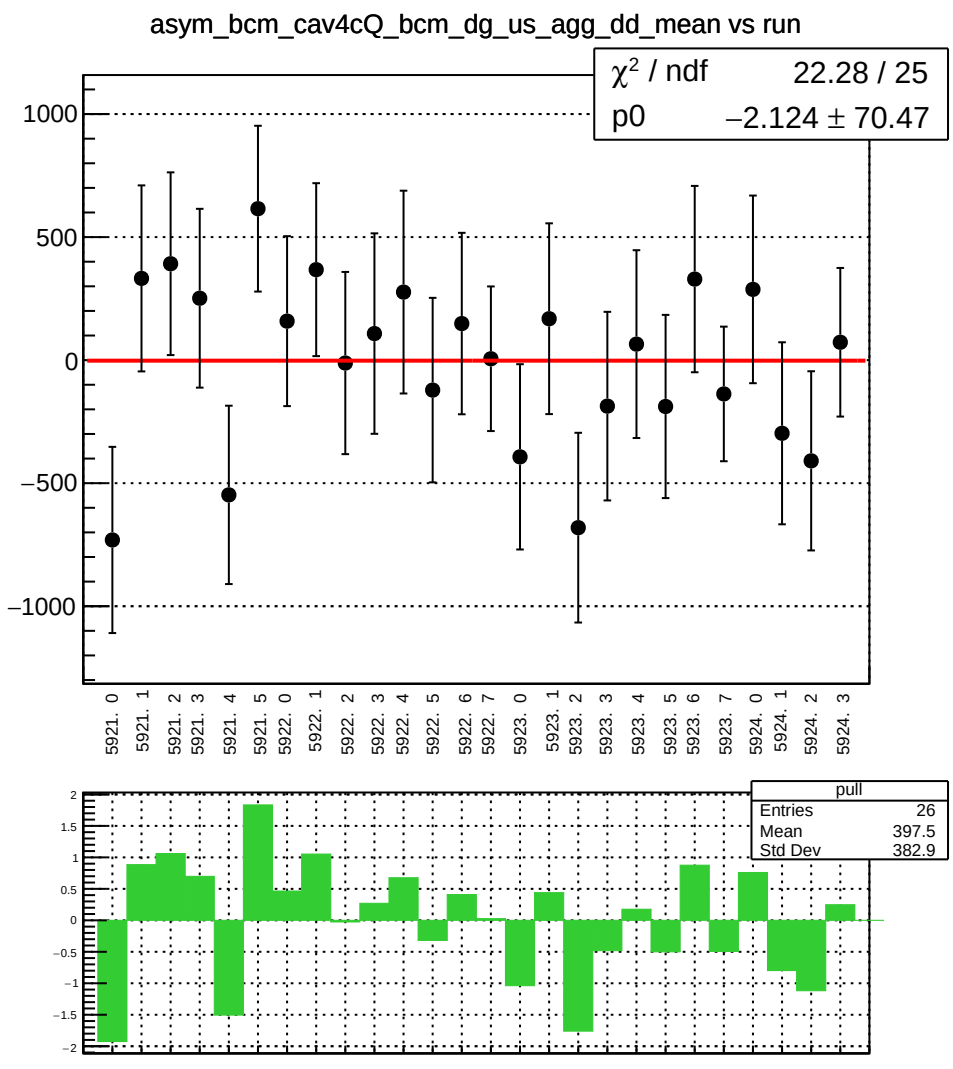

pull1D
Entries 26
Mean −0.004676
Std Dev 0.7607
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

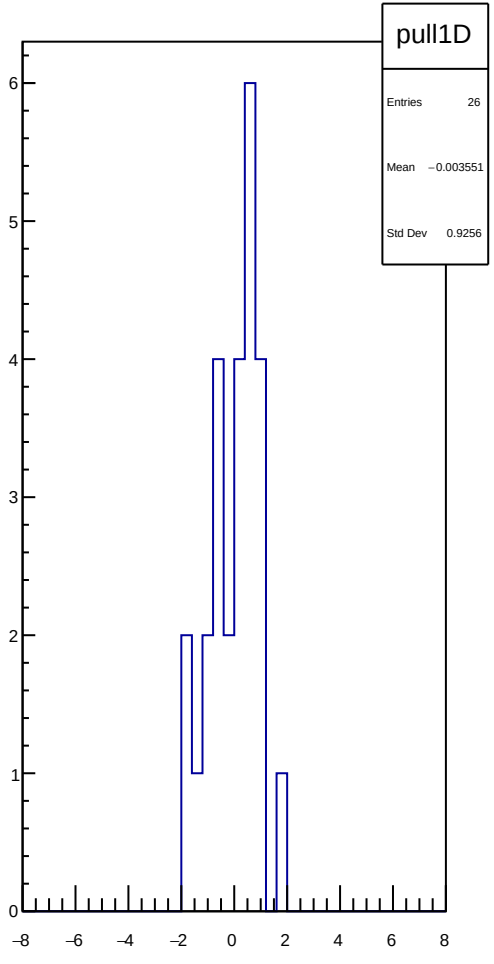

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 866.2 / 25
p0 30.54 ± 0.04315
34
33
32
31
30
29
28
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

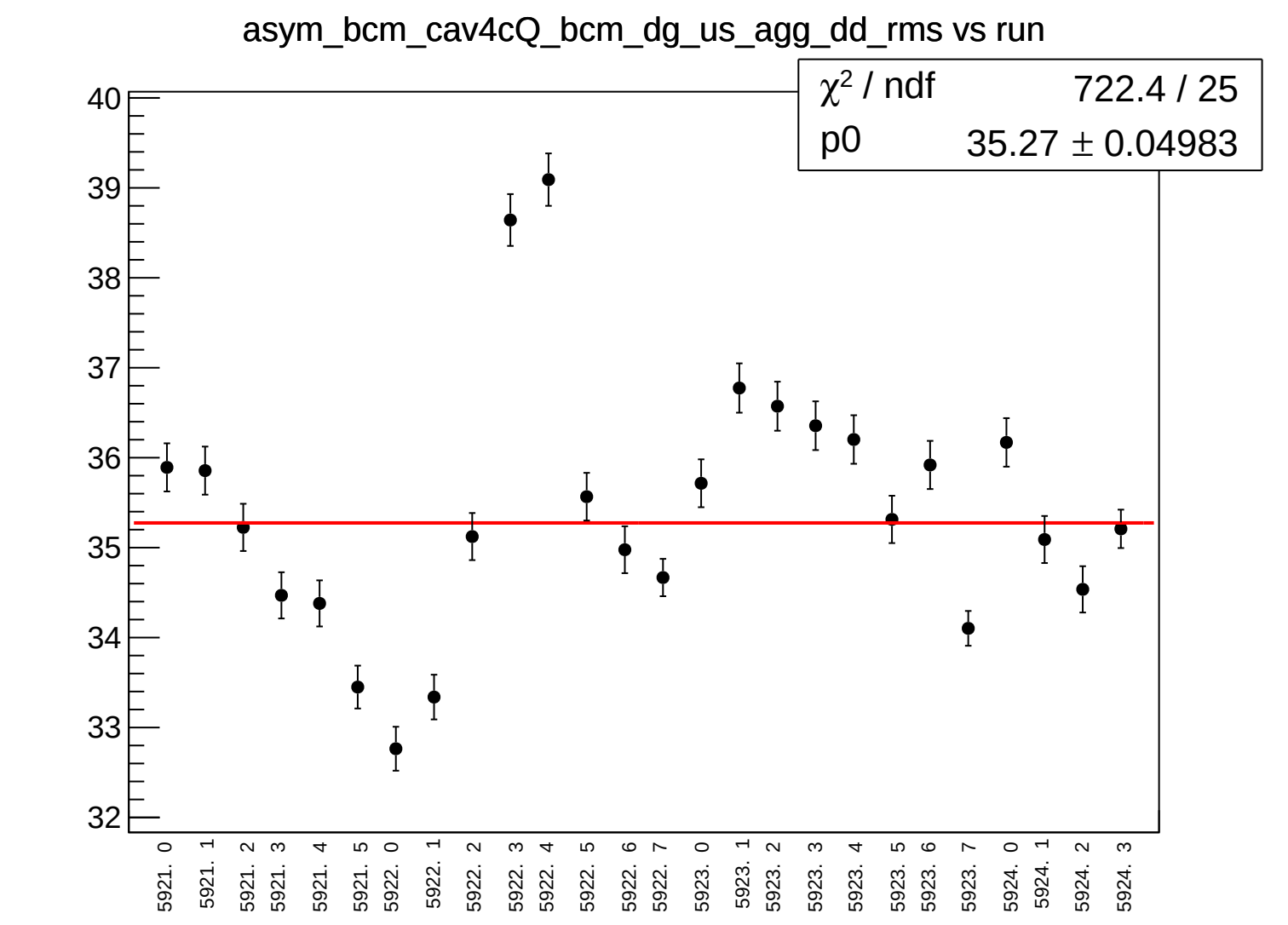

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 3.182 / 25
p0 −413.2 ± 506.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −92.01
Std Dev 104.5
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

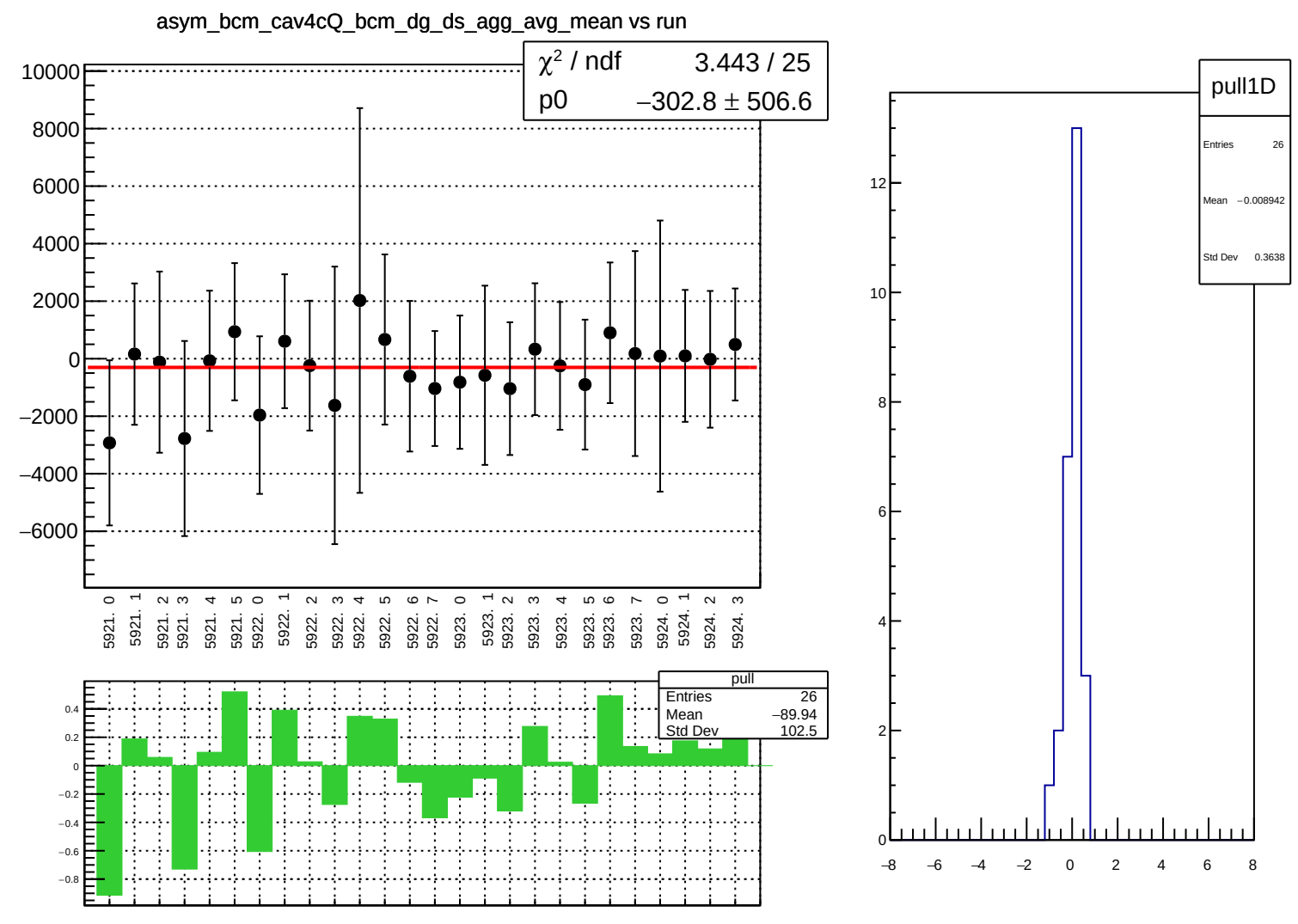

pull1D
Entries 26
Mean −0.009885
Std Dev 0.3497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

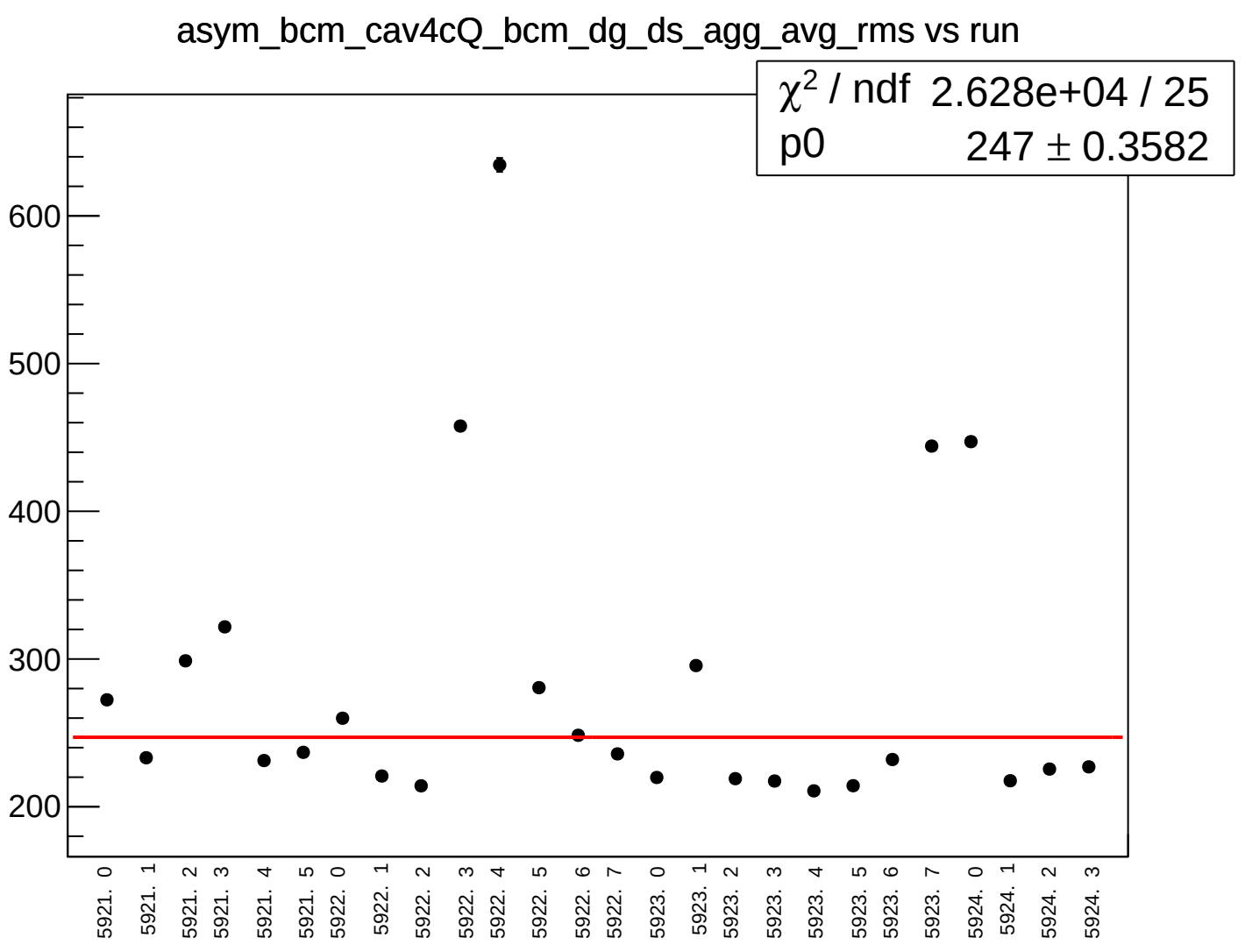

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.622e+04 / 25
p0 246.8 ± 0.3579
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

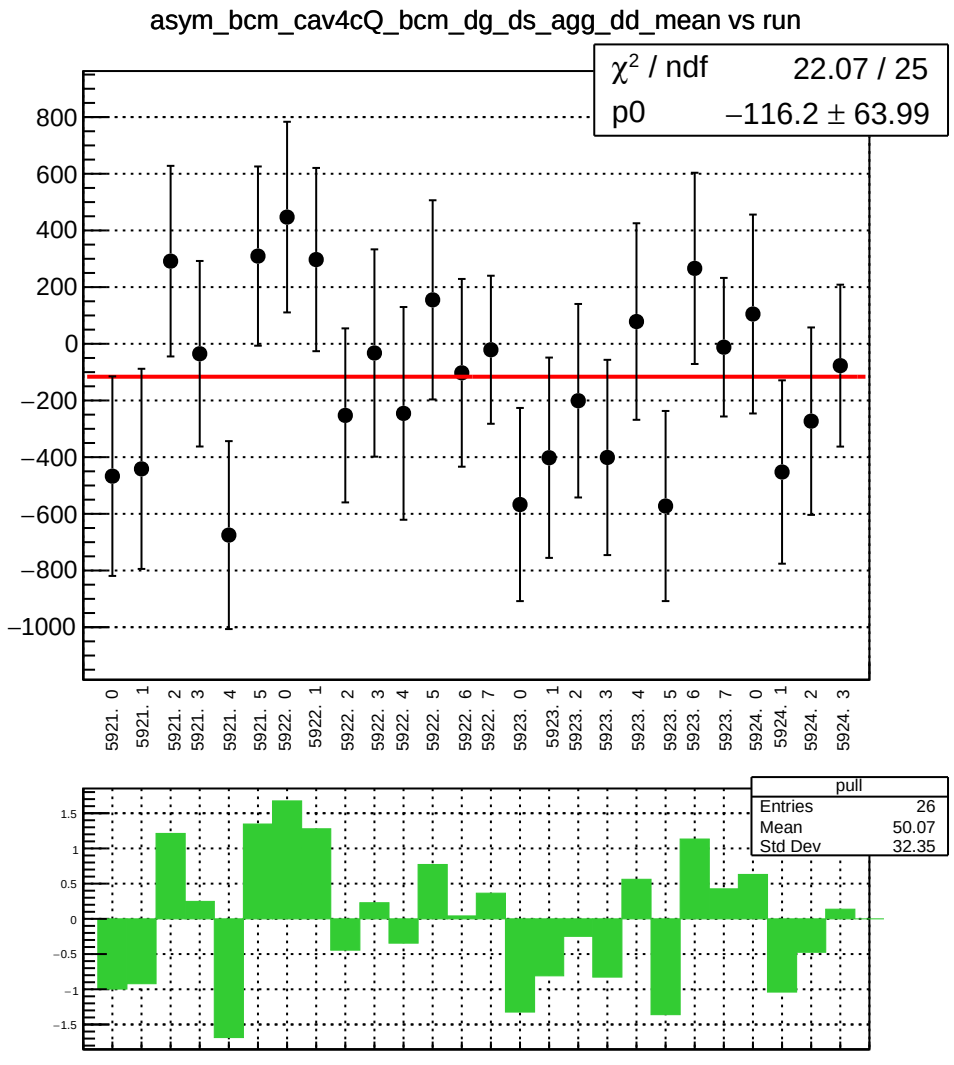

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 22.28 / 25
p0 −2.124 ± 70.47
1000
500
0
−500
−1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 397.5
Std Dev 382.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

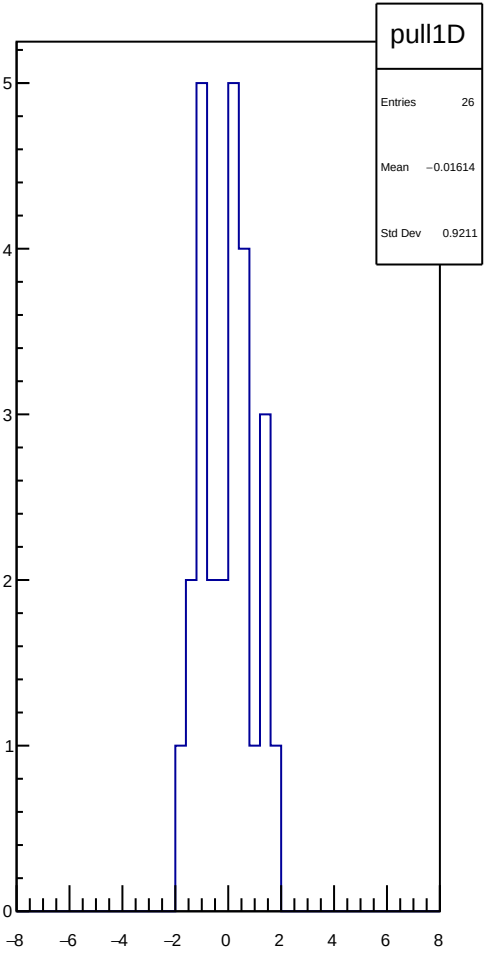

pull1D
Entries 26
Mean −0.003551
Std Dev 0.9256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

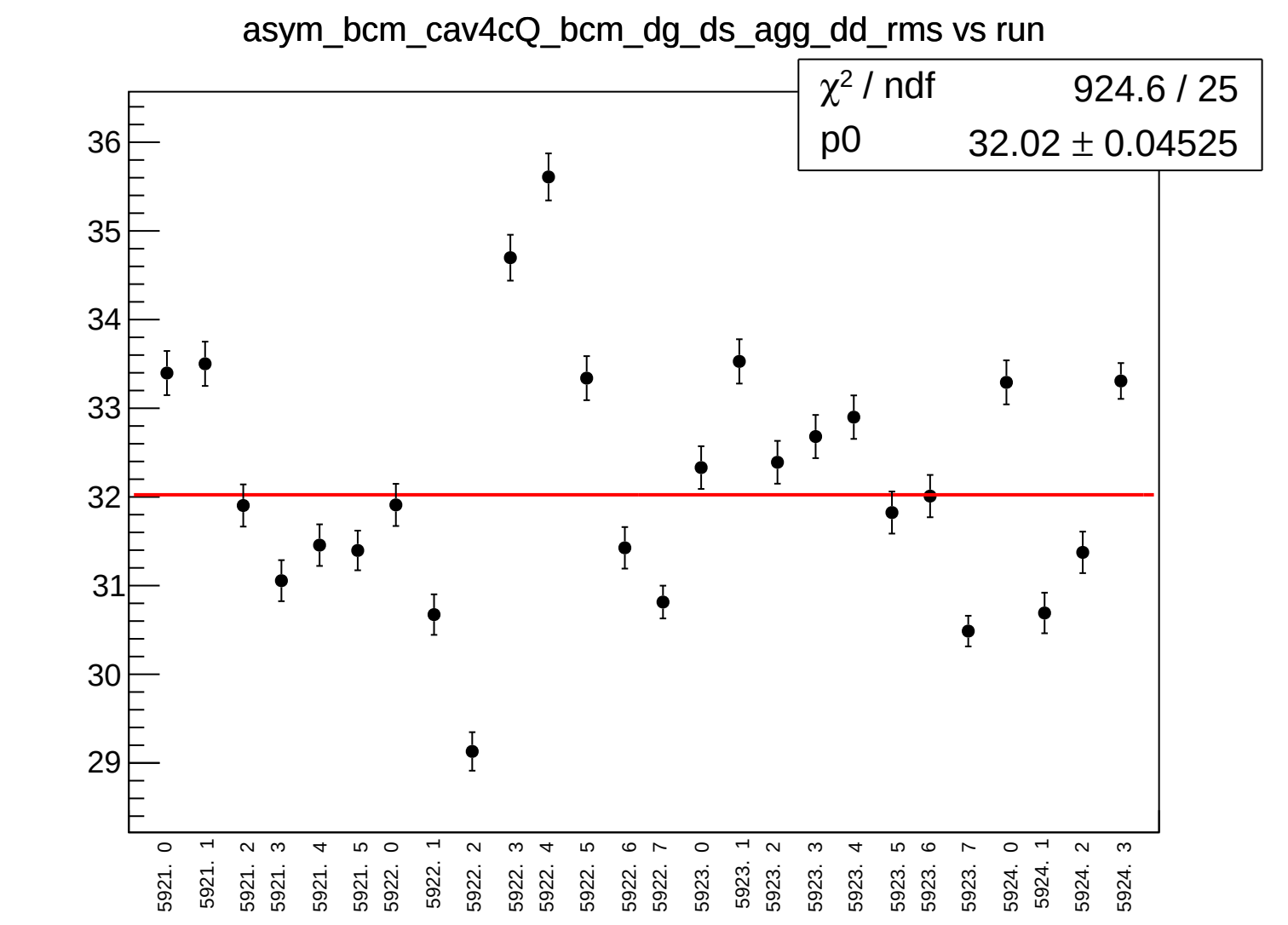

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 722.4 / 25
p0 35.27 ± 0.04983
40
39
38
37
36
35
34
33
32
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

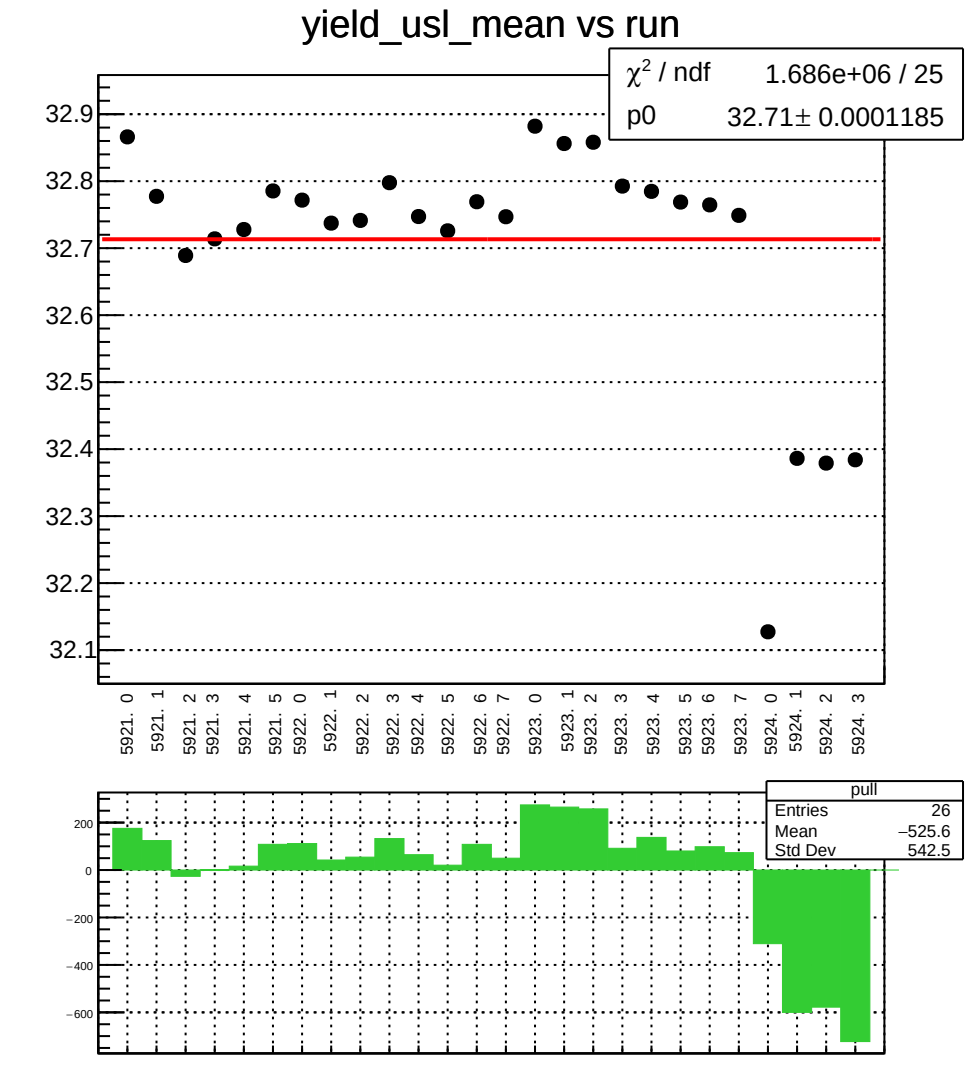

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.443 / 25
p0 −302.8 ± 506.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −89.94
Std Dev 102.5
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.008942
Std Dev 0.3638
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

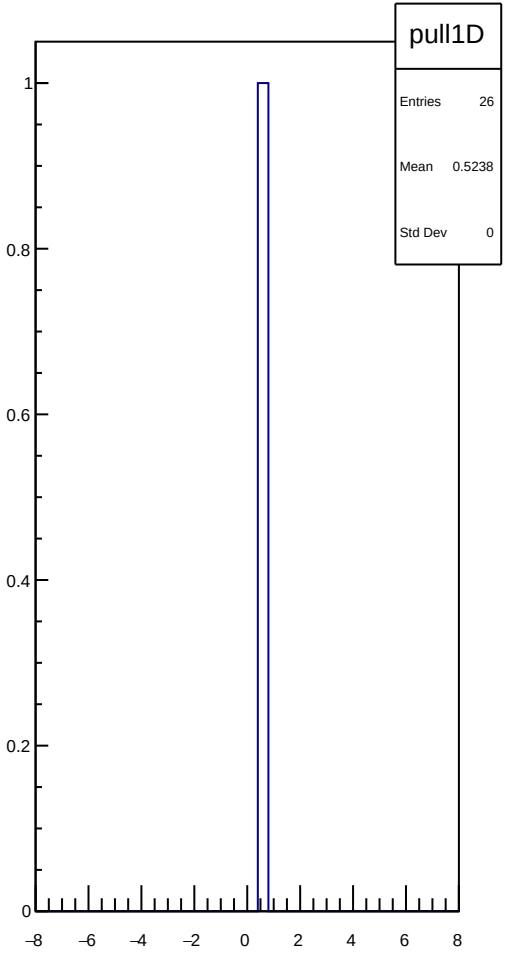

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.628e+04 / 25
p0 247 ± 0.3582
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

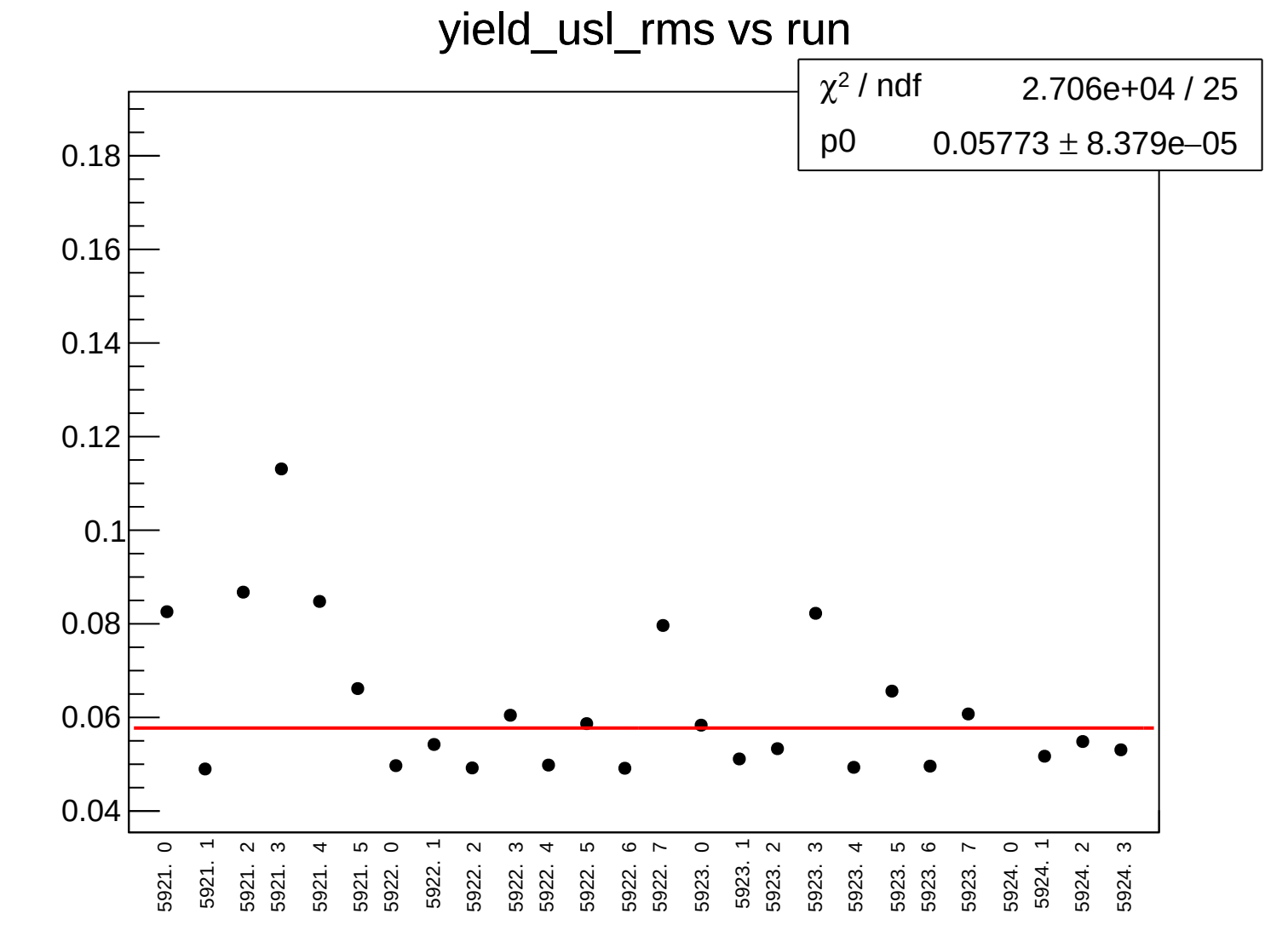

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 22.07 / 25
p0 −116.2 ± 63.99
800
600
400
200
0
−200
−400
−600
−800
−1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 50.07
Std Dev 32.35
1.5
1
0.5
0
−0.5
−1
−1.5

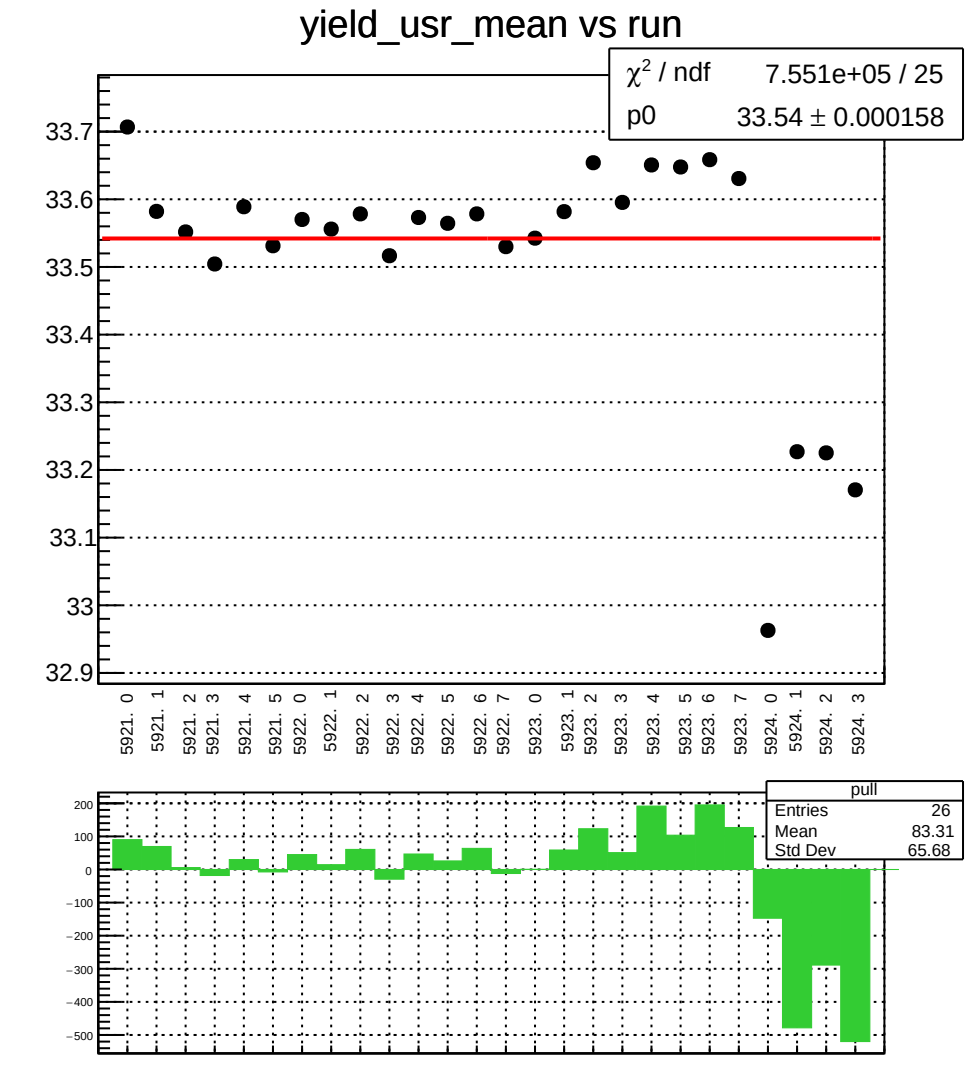

pull1D
Entries 26
Mean −0.01614
Std Dev 0.9211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

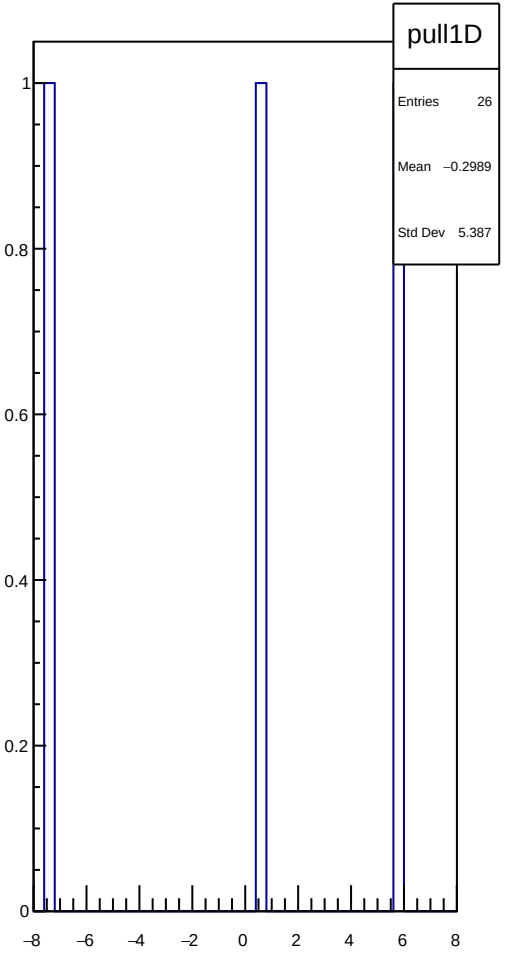

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 924.6 / 25
p0 32.02 ± 0.04525
36
35
34
33
32
31
30
29
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

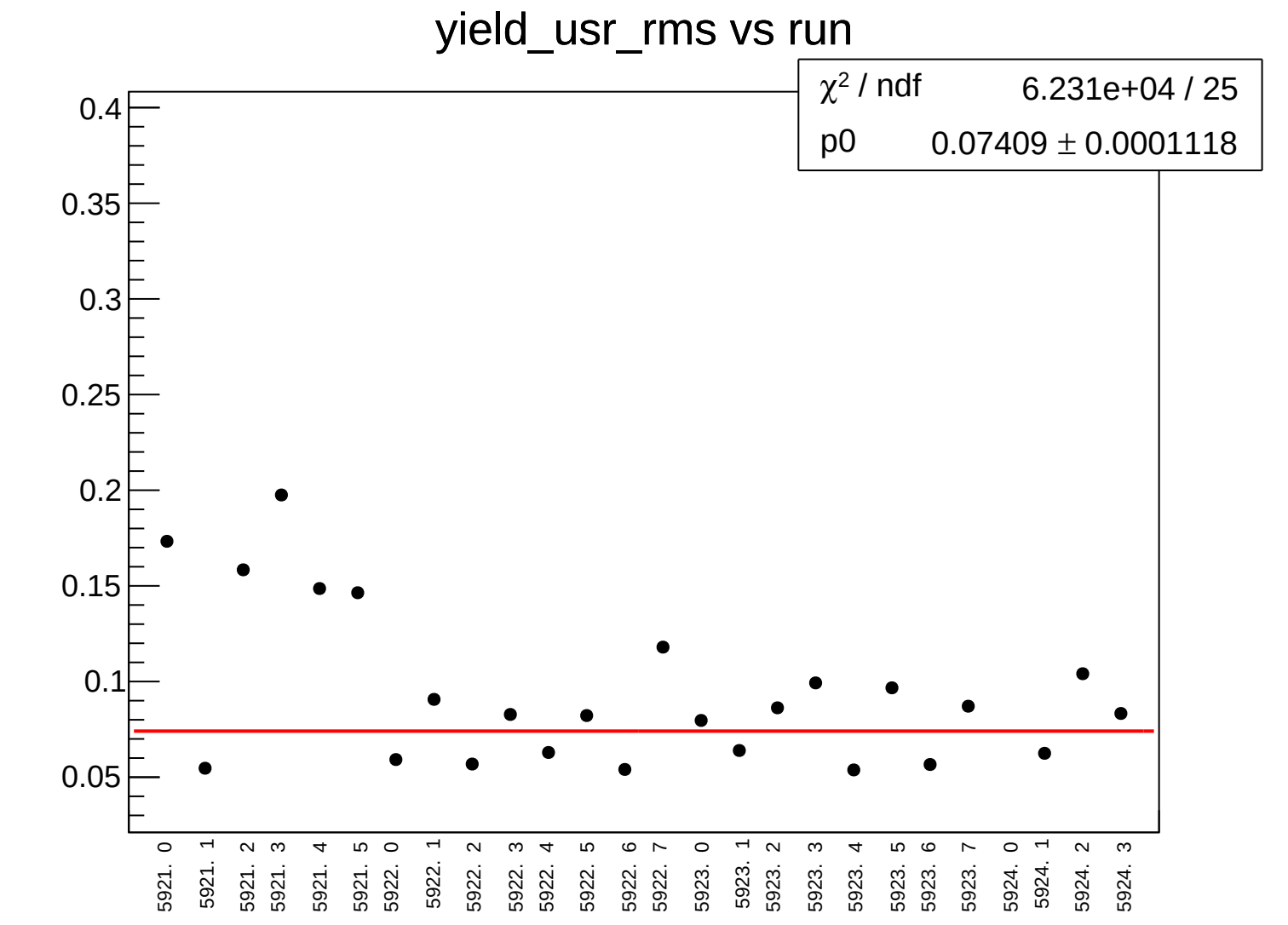

yield_usl_mean vs run
χ² / ndf 1.686e+06 / 25
p0 32.71± 0.0001185
32.9
32.8
32.7
32.6
32.5
32.4
32.3
32.2
32.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −525.6
Std Dev 542.5
200
0
−200
−400
−600

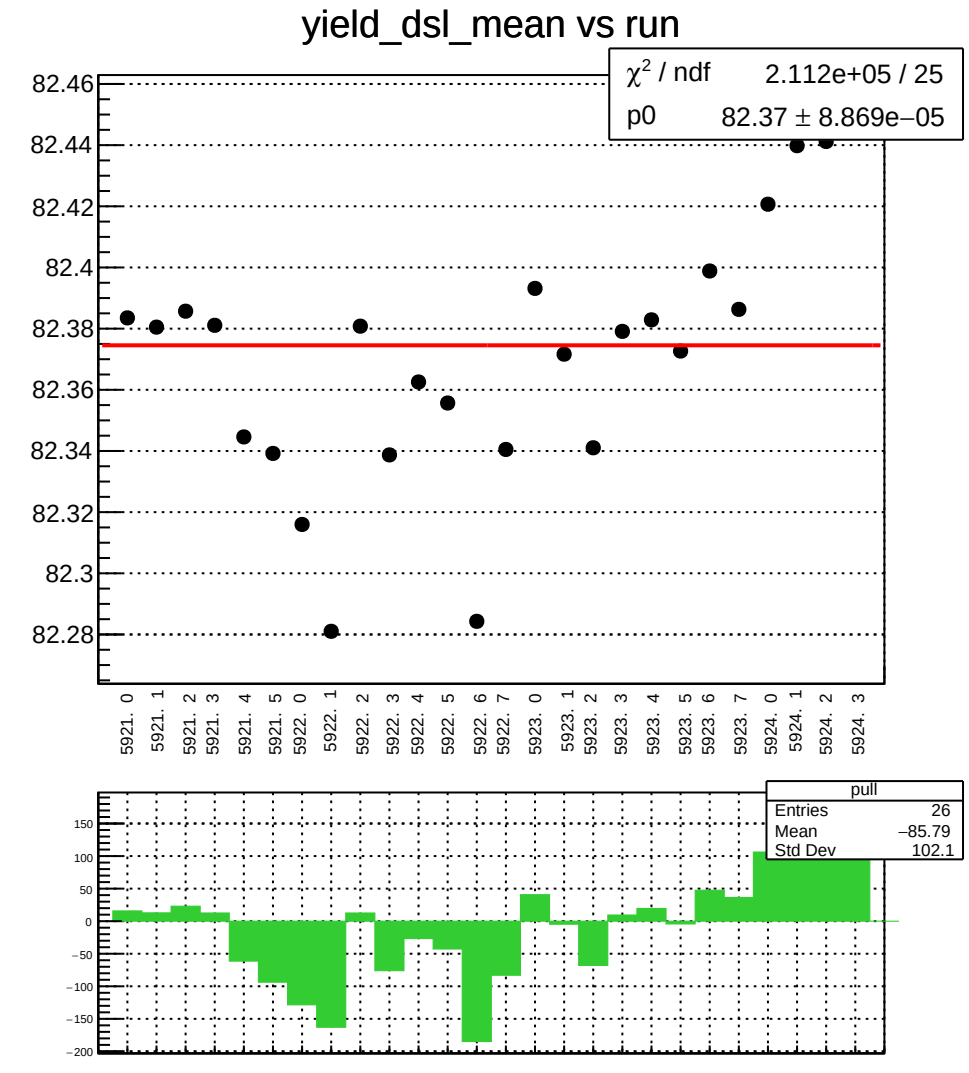

pull1D
Entries 26
Mean 0.5238
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

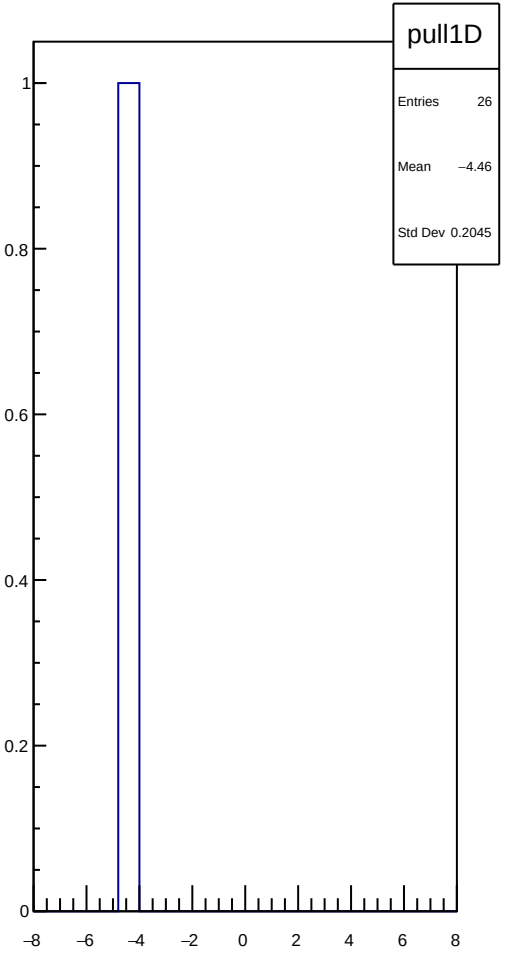

yield_usl_rms vs run
χ² / ndf 2.706e+04 / 25
p0 0.05773 ± 8.379e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

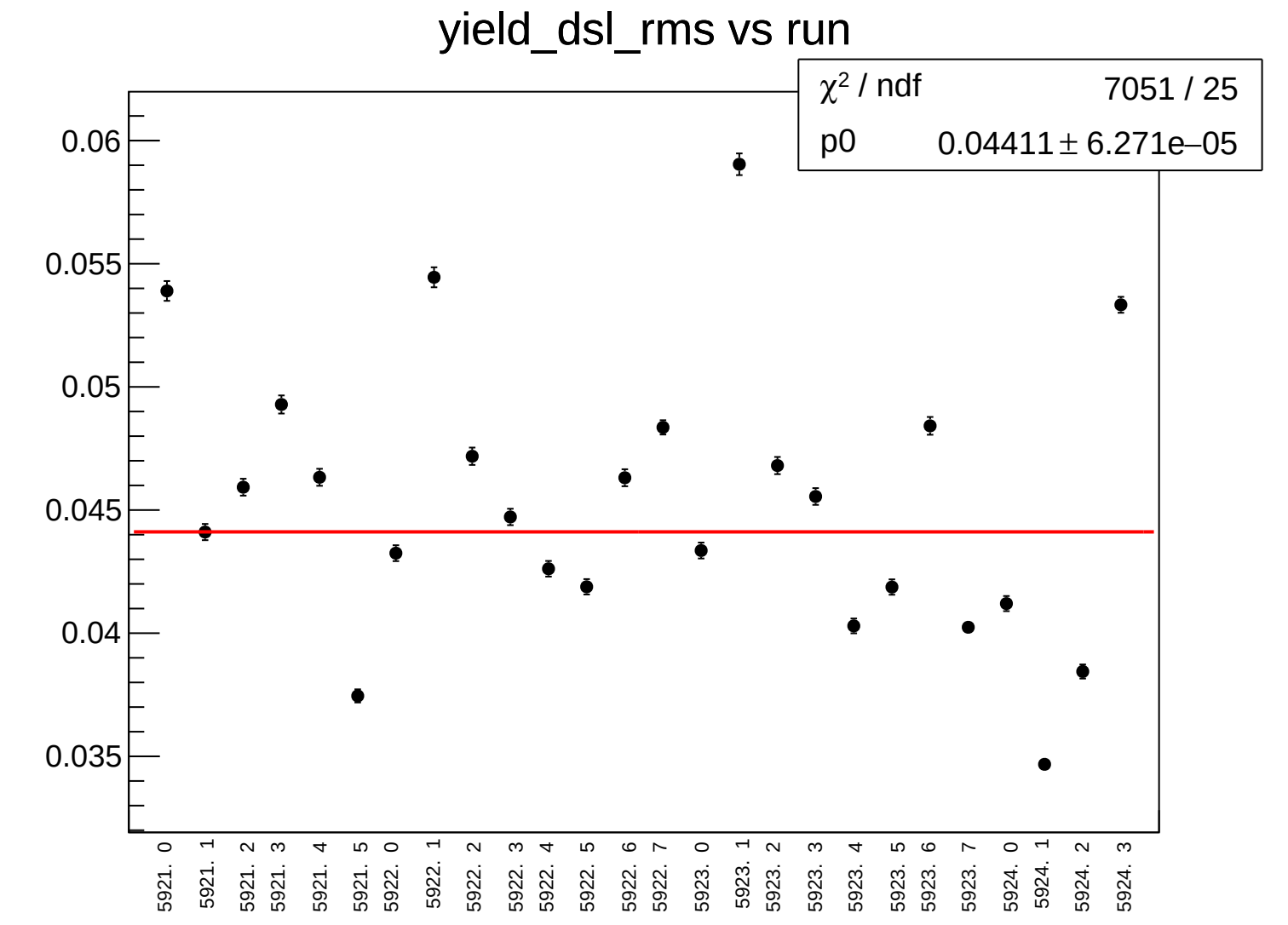

yield_usr_mean vs run
χ² / ndf 7.551e+05 / 25
p0 33.54 ± 0.000158
33.7
33.6
33.5
33.4
33.3
33.2
33.1
33
32.9
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 83.31
Std Dev 65.68
200
100
0
−100
−200
−300
−400
−500

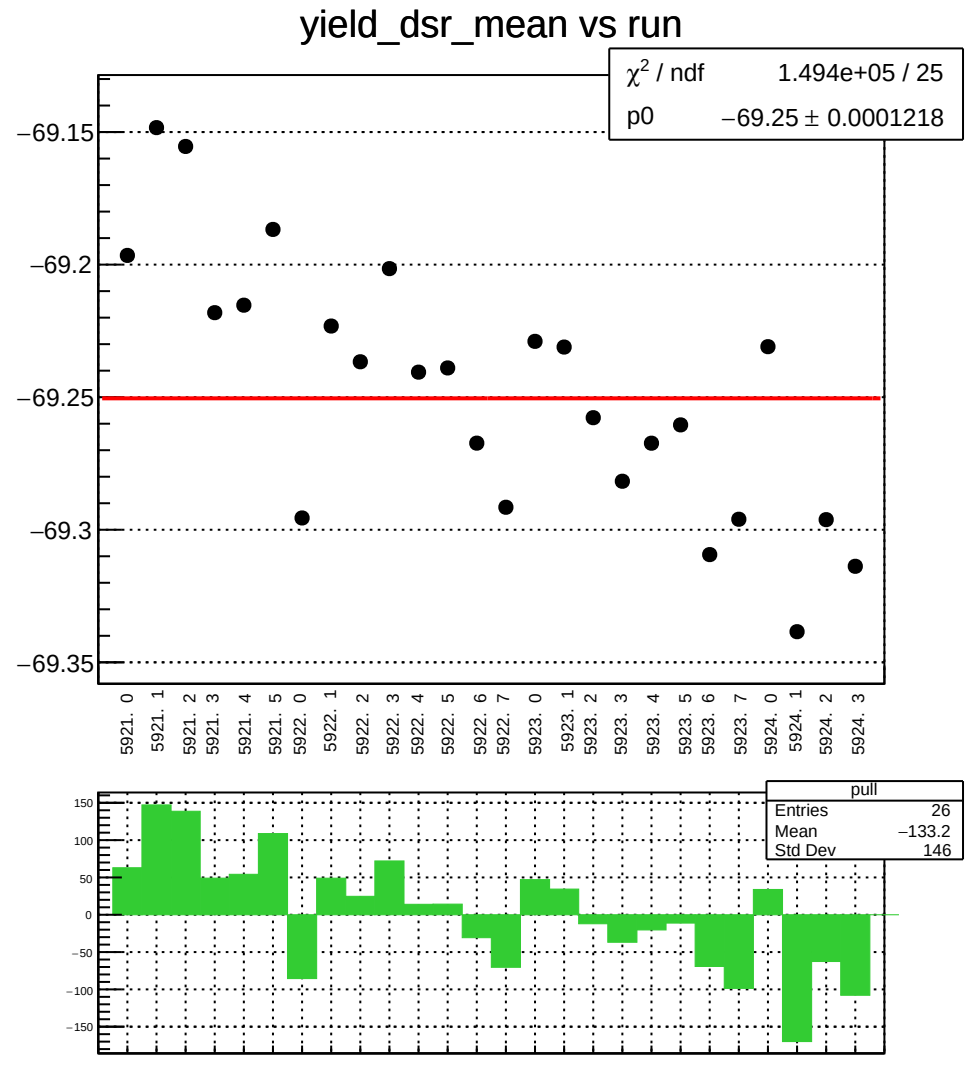

pull1D
Entries 26
Mean −0.2989
Std Dev 5.387
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

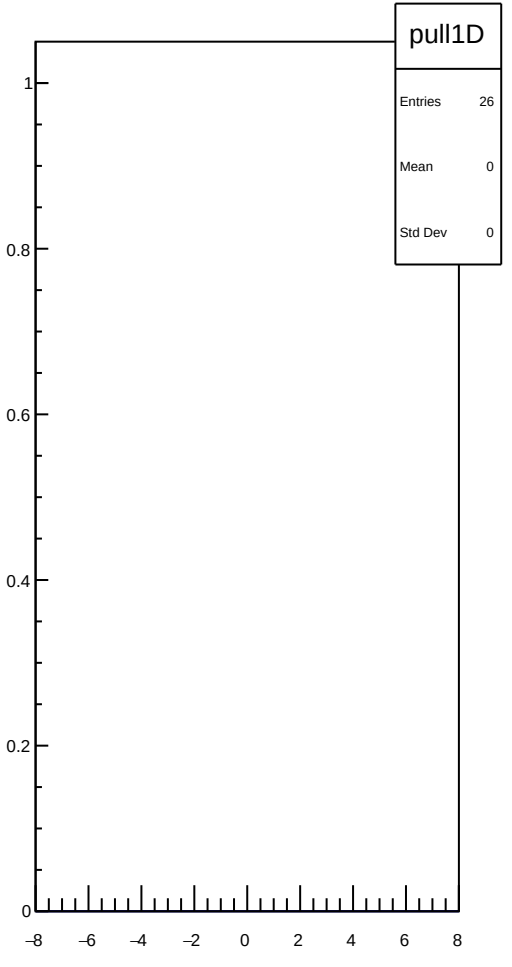

yield_usr_rms vs run
χ² / ndf 6.231e+04 / 25
p0 0.07409 ± 0.0001118
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

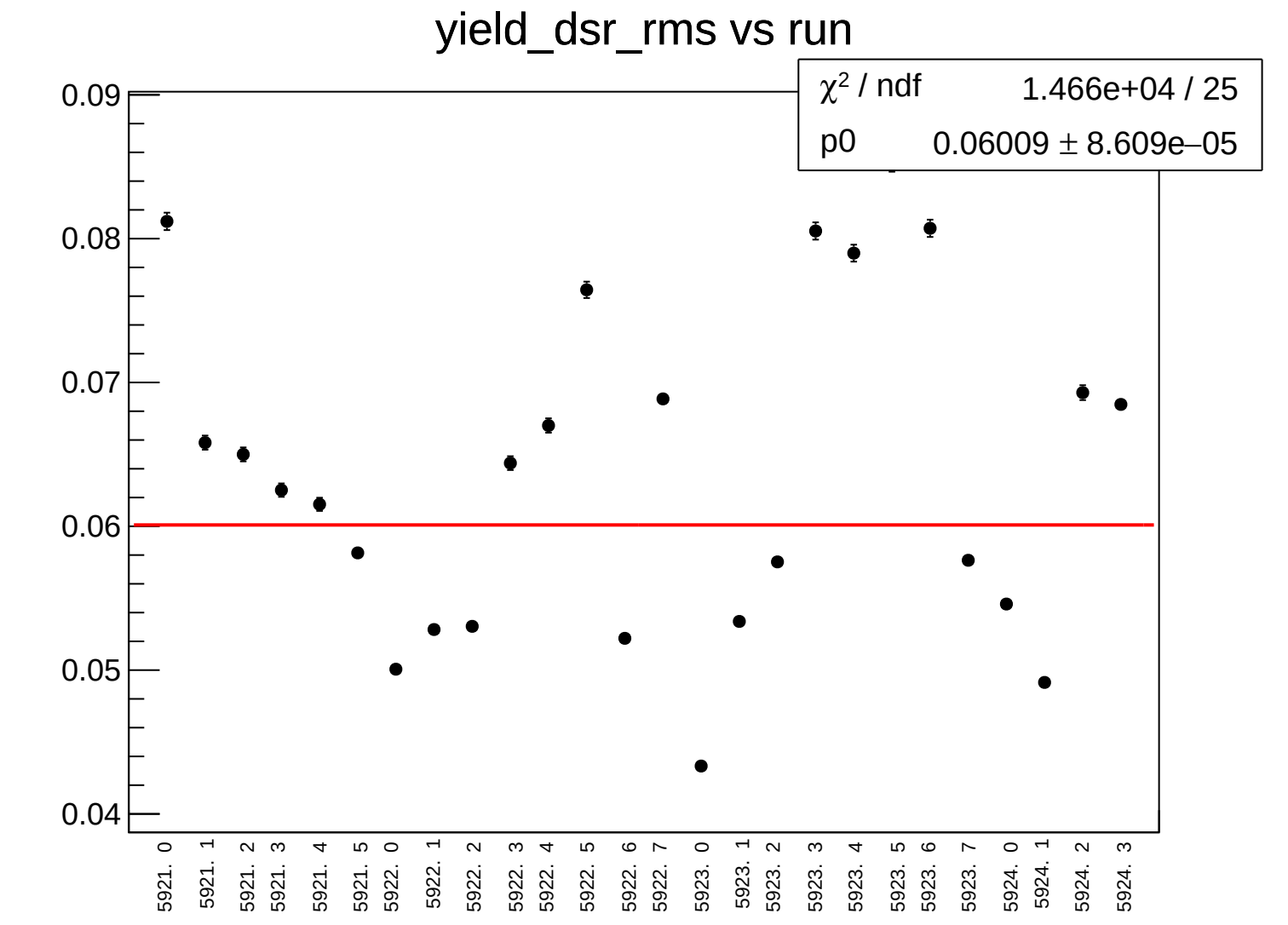

yield_dsl_mean vs run
χ² / ndf 2.112e+05 / 25
p0 82.37 ± 8.869e−05
82.46
82.44
82.42
82.4
82.38
82.36
82.34
82.32
82.3
82.28
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −85.79
Std Dev 102.1
150
100
50
0
−50
−100
−150
−200

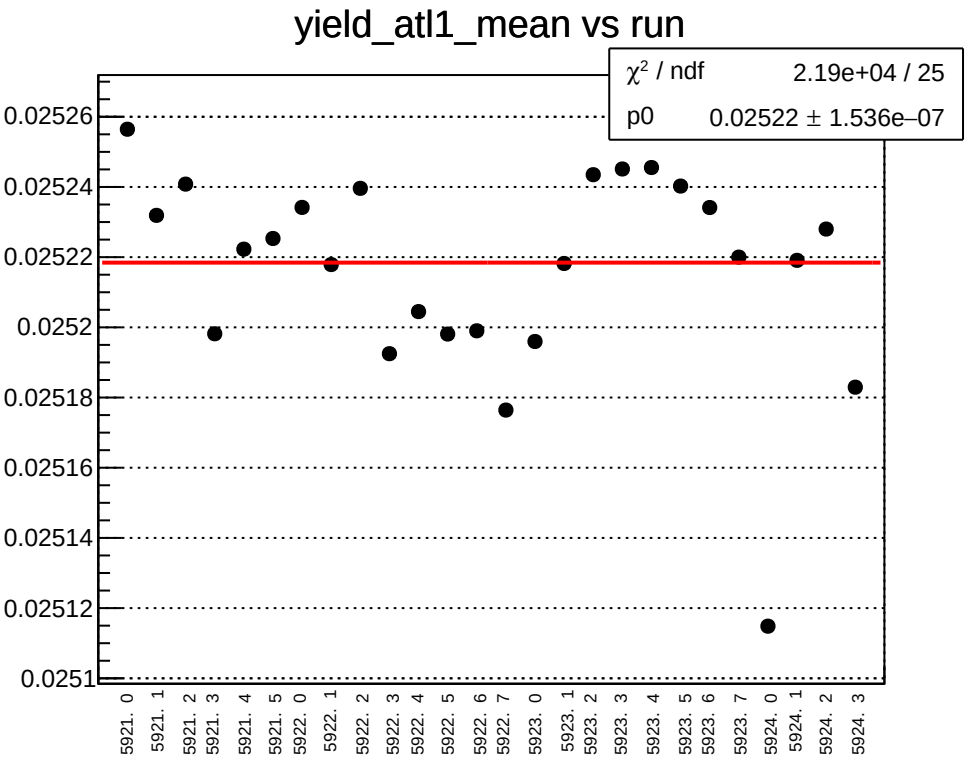

pull1D
Entries 26
Mean −4.46
Std Dev 0.2045
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

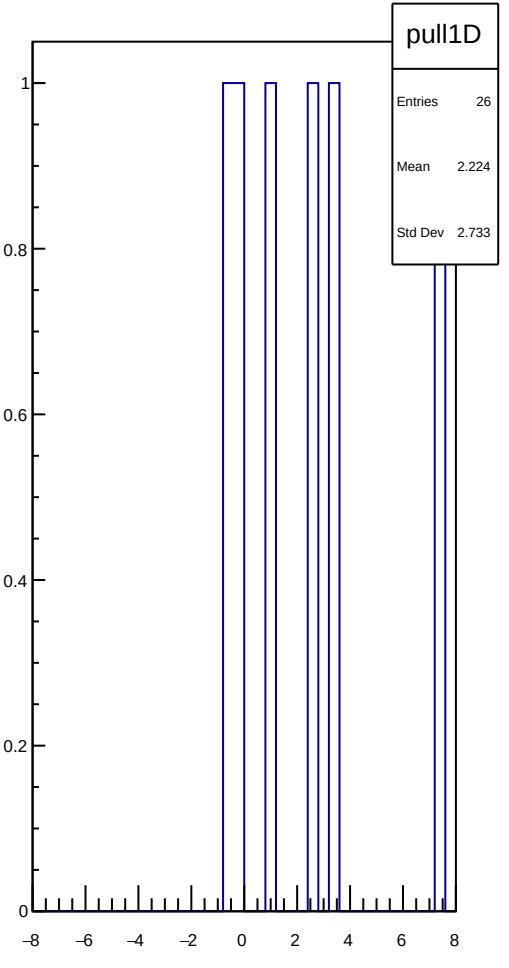

yield_dsl_rms vs run
χ² / ndf 7051 / 25
p0 0.04411 ± 6.271e–05
0.06
0.055
0.05
0.045
0.04
0.035
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

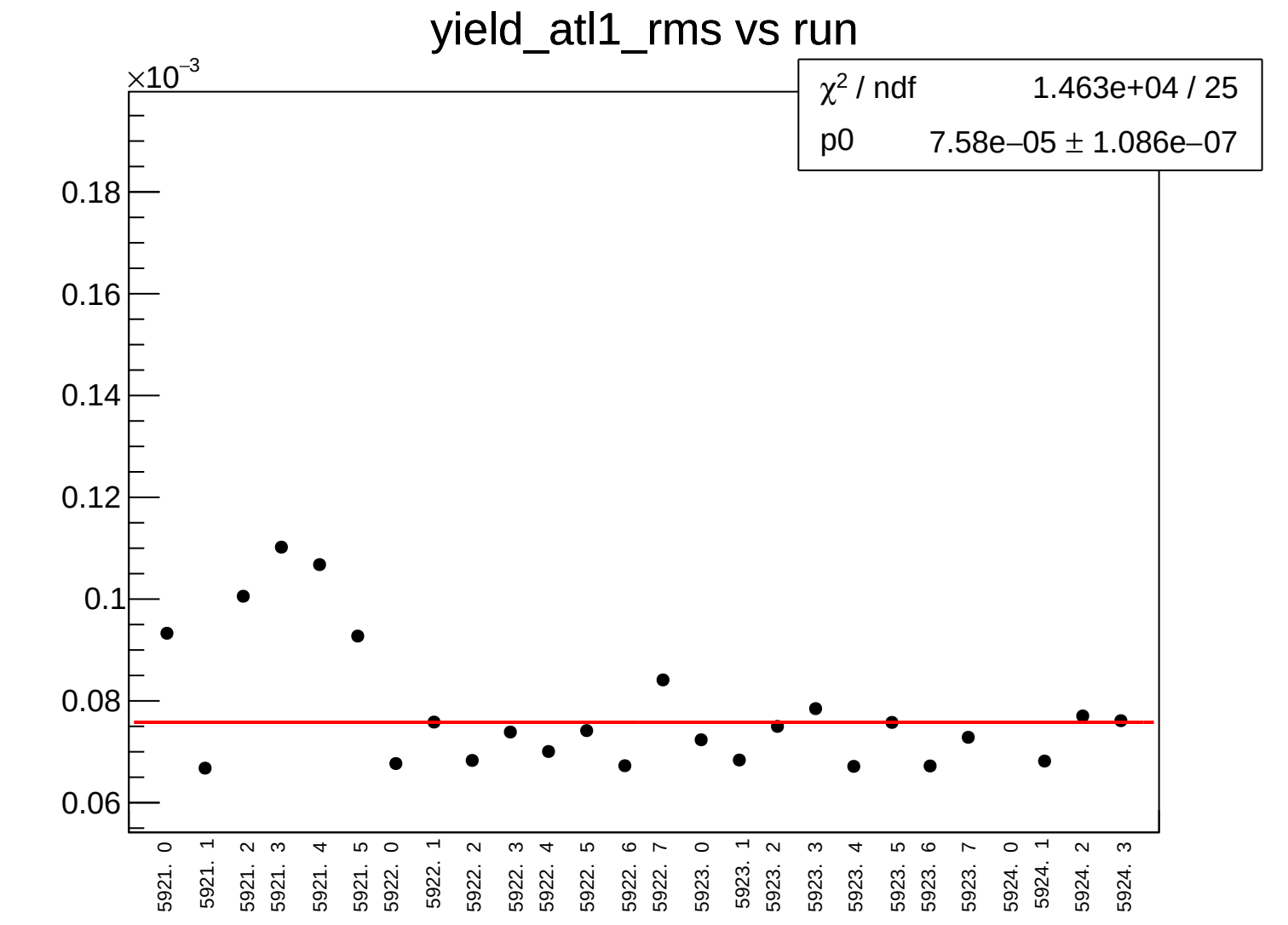

yield_dsr_mean vs run
χ² / ndf 1.494e+05 / 25
p0 −69.25 ± 0.0001218
−69.15
−69.2
−69.25
−69.3
−69.35
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −133.2
Std Dev 146
150
100
50
0
−50
−100
−150

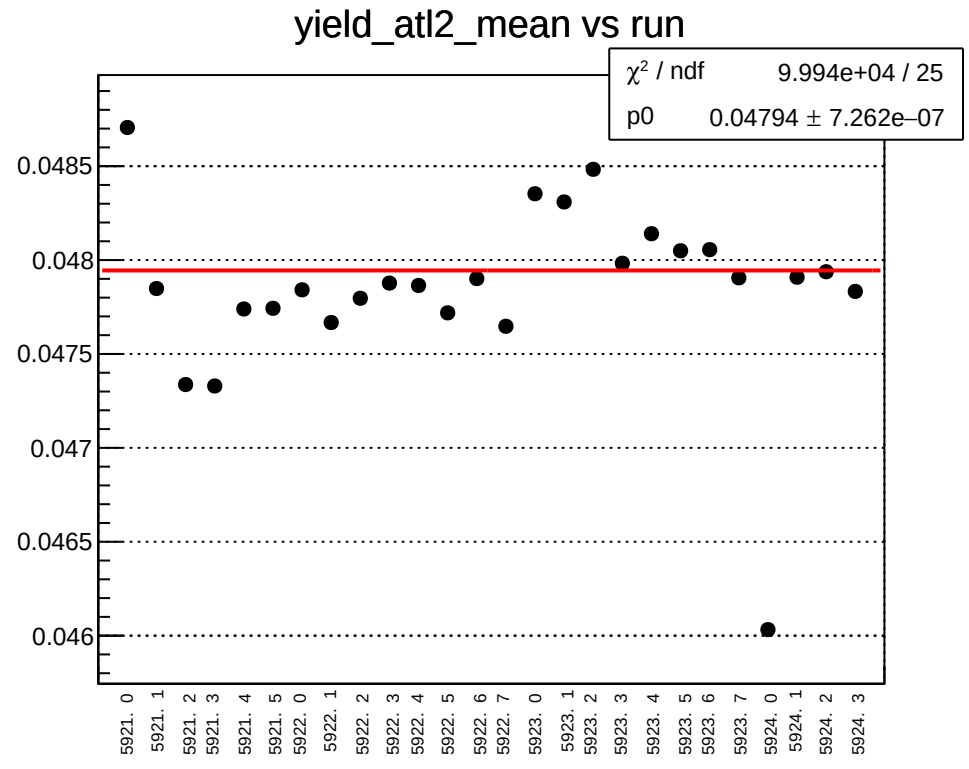

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

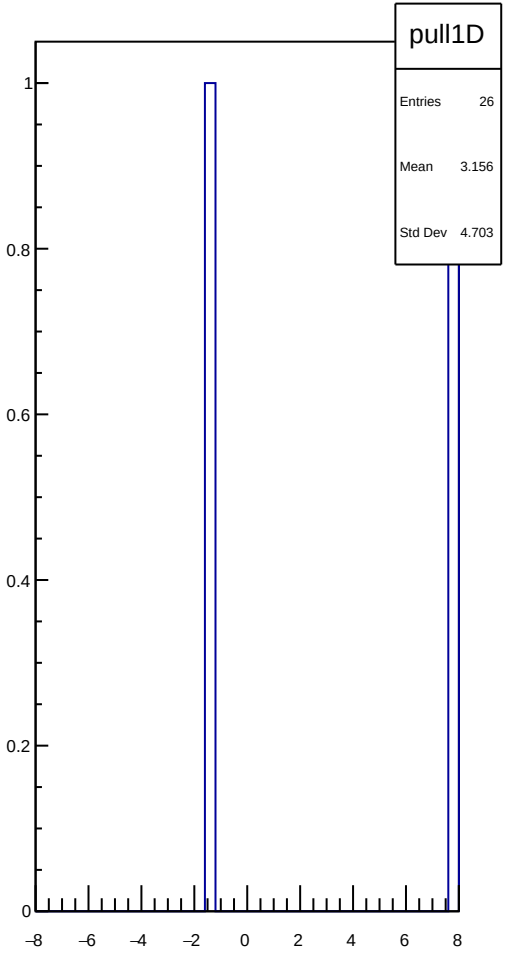

yield_dsr_rms vs run
χ² / ndf 1.466e+04 / 25
p0 0.06009 ± 8.609e–05
0.09
0.08
0.07
0.06
0.05
0.04
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

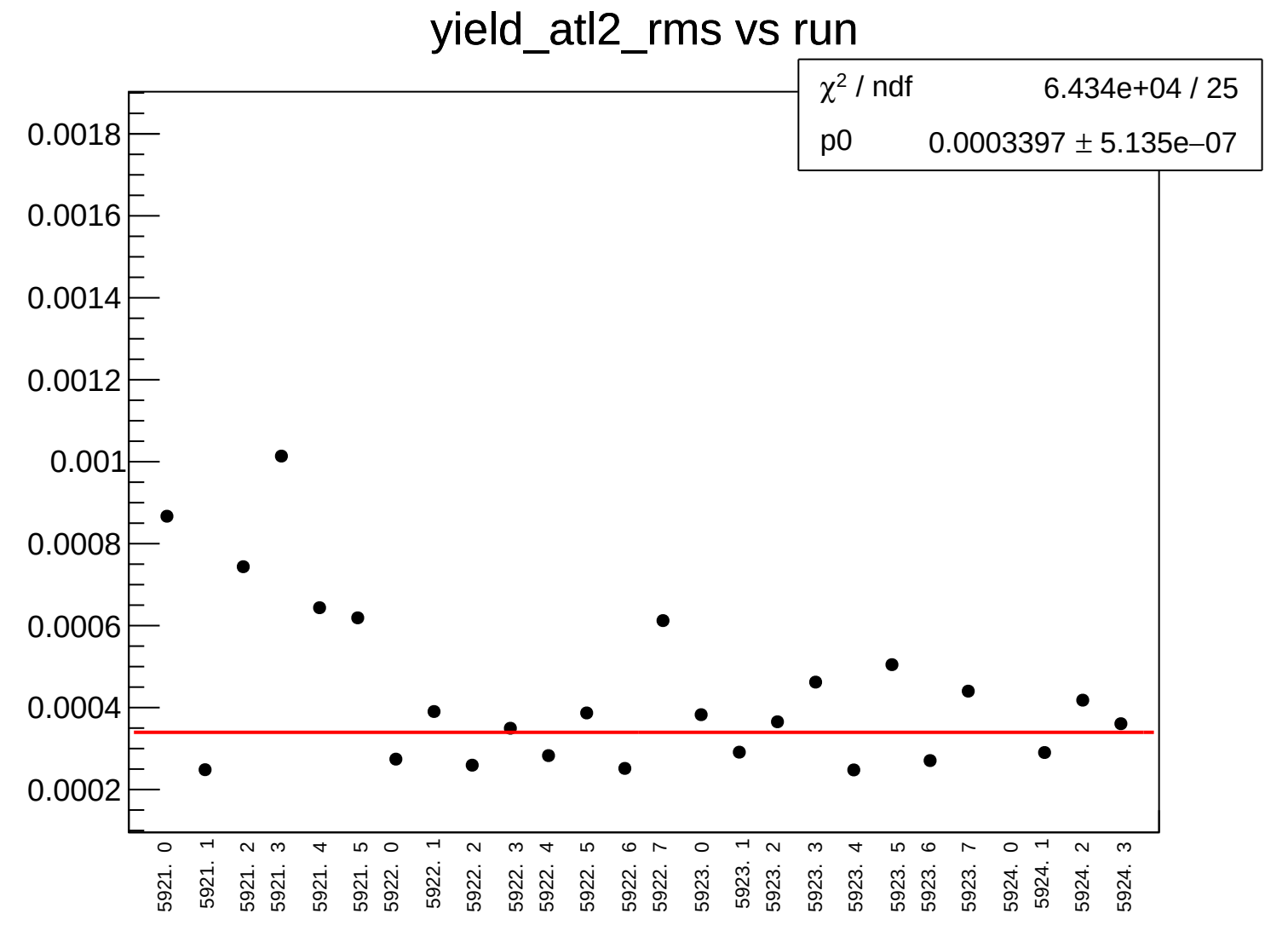

yield_atl1_mean vs run
χ² / ndf 2.19e+04 / 25
p0 0.02522 ± 1.536e−07
0.02526
0.02524
0.02522
0.0252
0.02518
0.02516
0.02514
0.02512
0.0251
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 115.7
Std Dev 104.4
40
20
0
−20
−40
−60

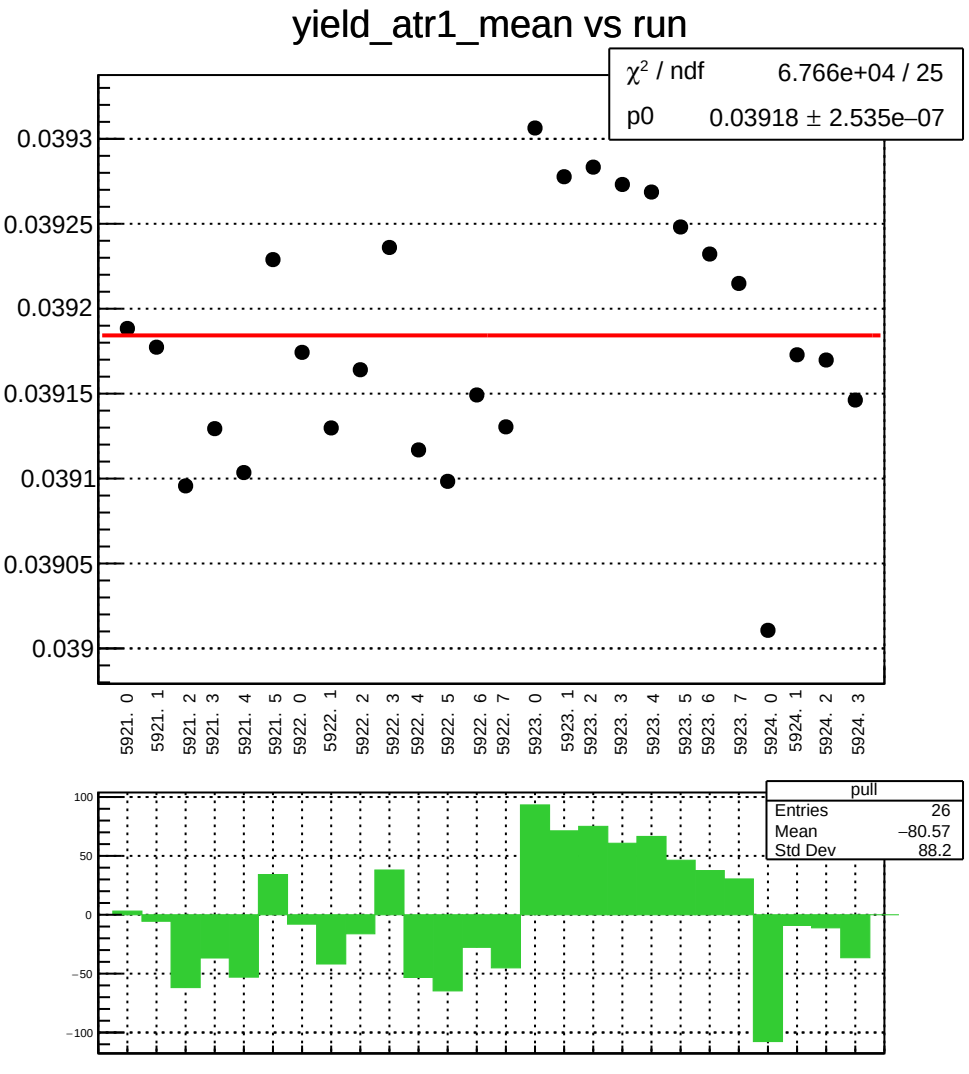

pull1D
Entries 26
Mean 2.224
Std Dev 2.733
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

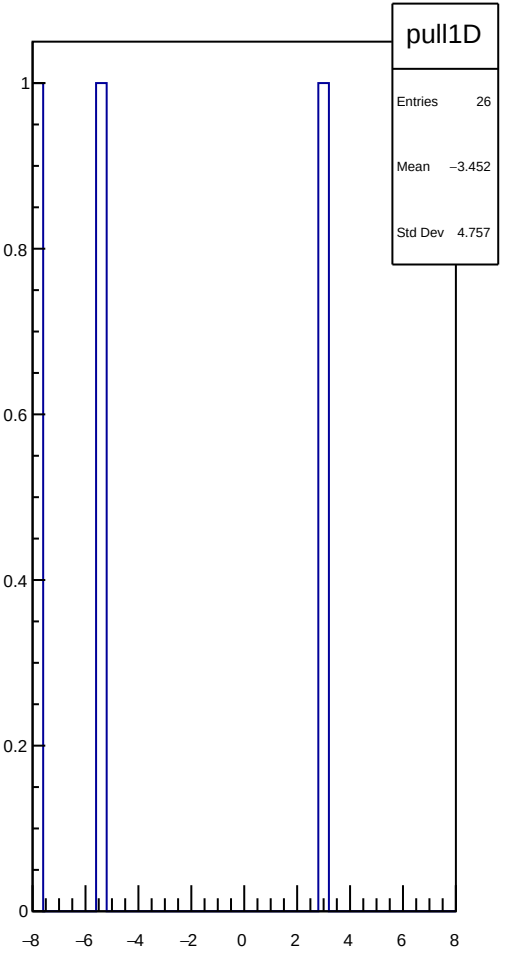

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.463e+04 / 25
p0 7.58e−05 ± 1.086e−07
0.18
0.16
0.14
0.12
0.1
0.08
0.06
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

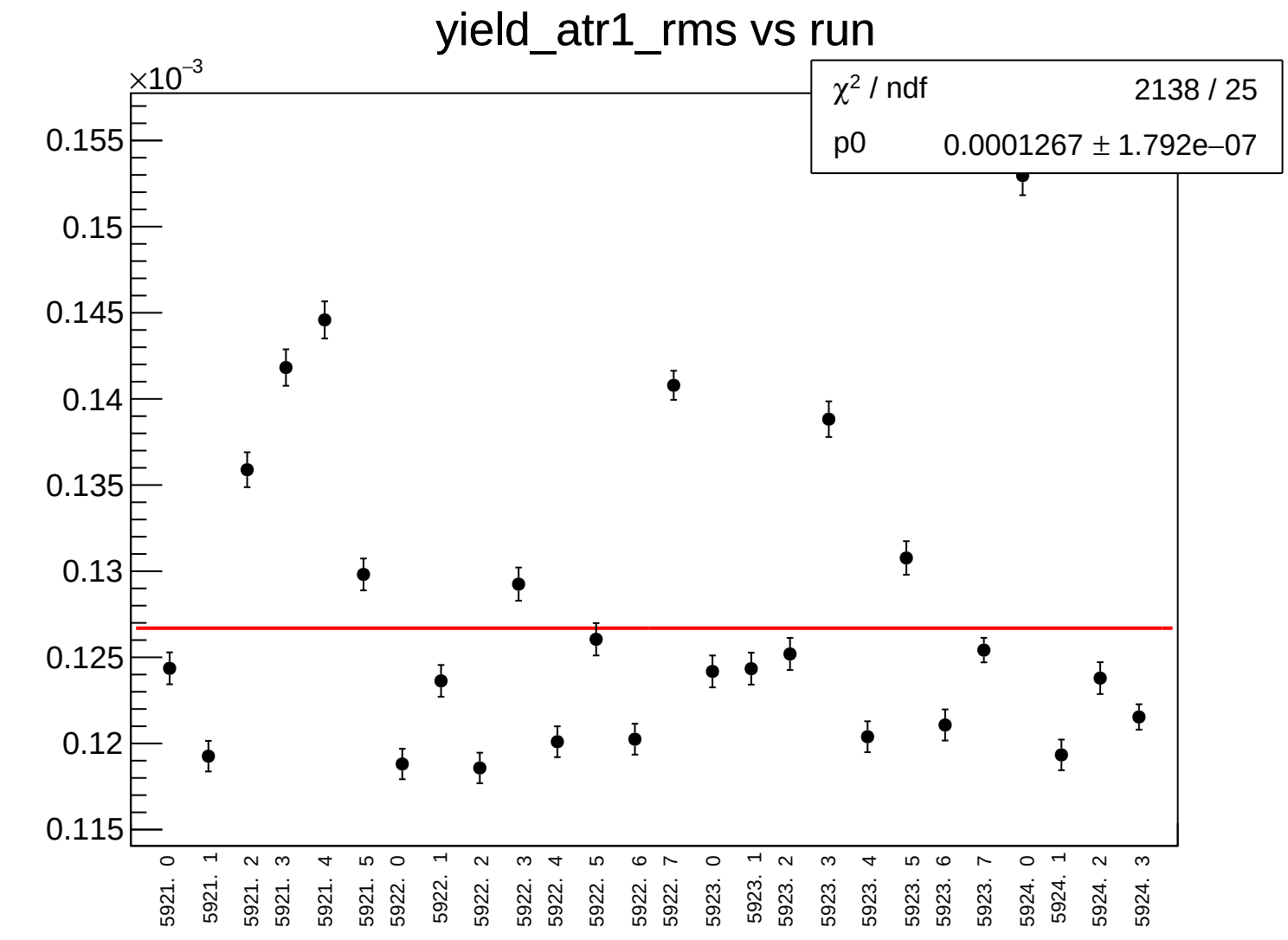

yield_atl2_mean vs run
χ² / ndf 9.994e+04 / 25
p0 0.04794 ± 7.262e−07
0.0485
0.048
0.0475
0.047
0.0465
0.046
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −3.524
Std Dev 10.42
150
100
50
0
−50
−100

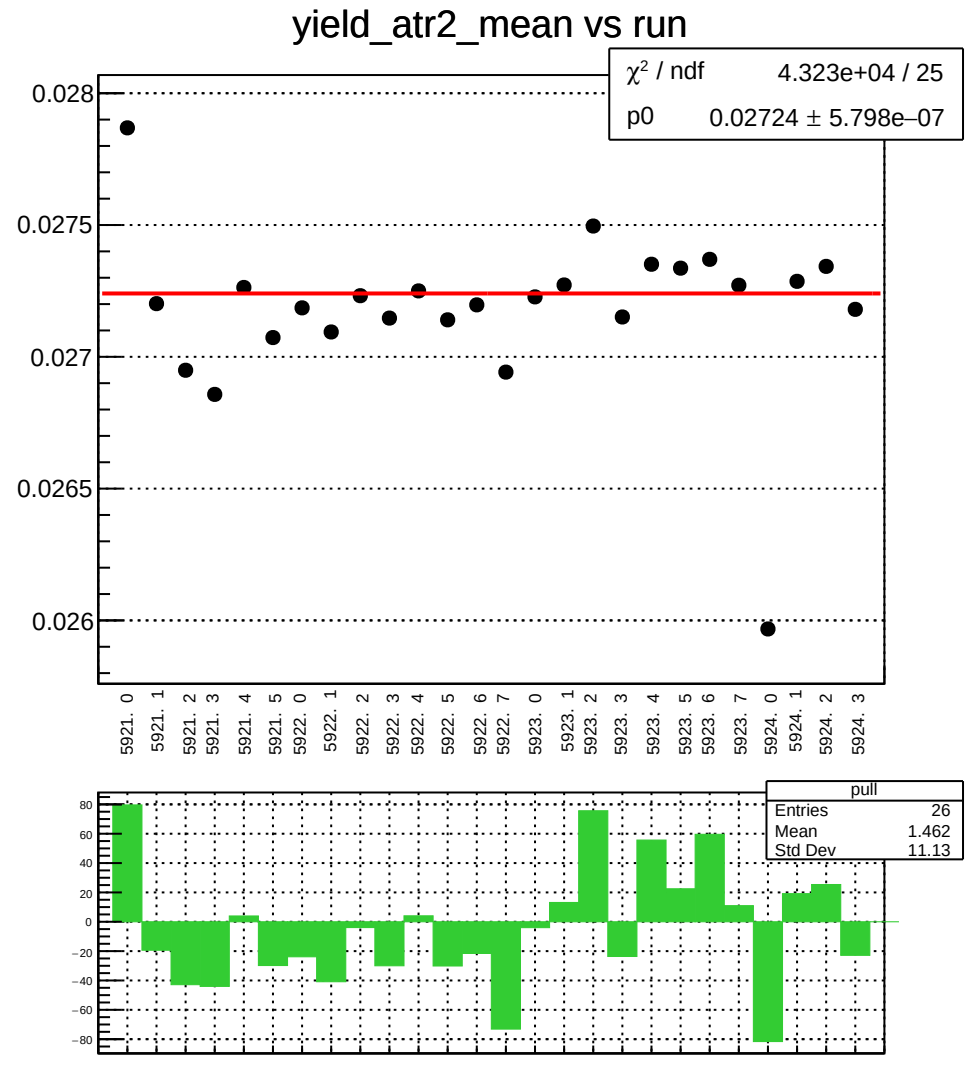

pull1D
Entries 26
Mean 3.156
Std Dev 4.703
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

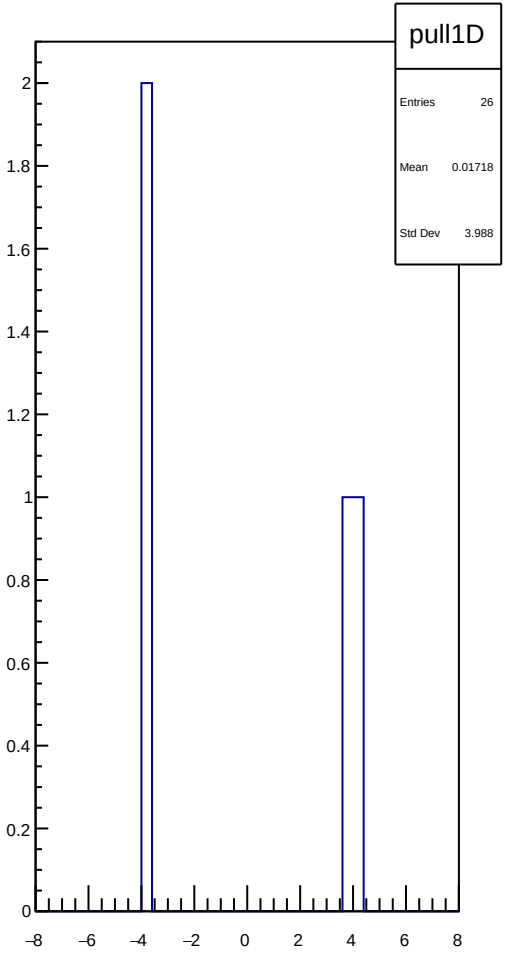

yield_atl2_rms vs run
χ² / ndf 6.434e+04 / 25
p0 0.0003397 ± 5.135e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

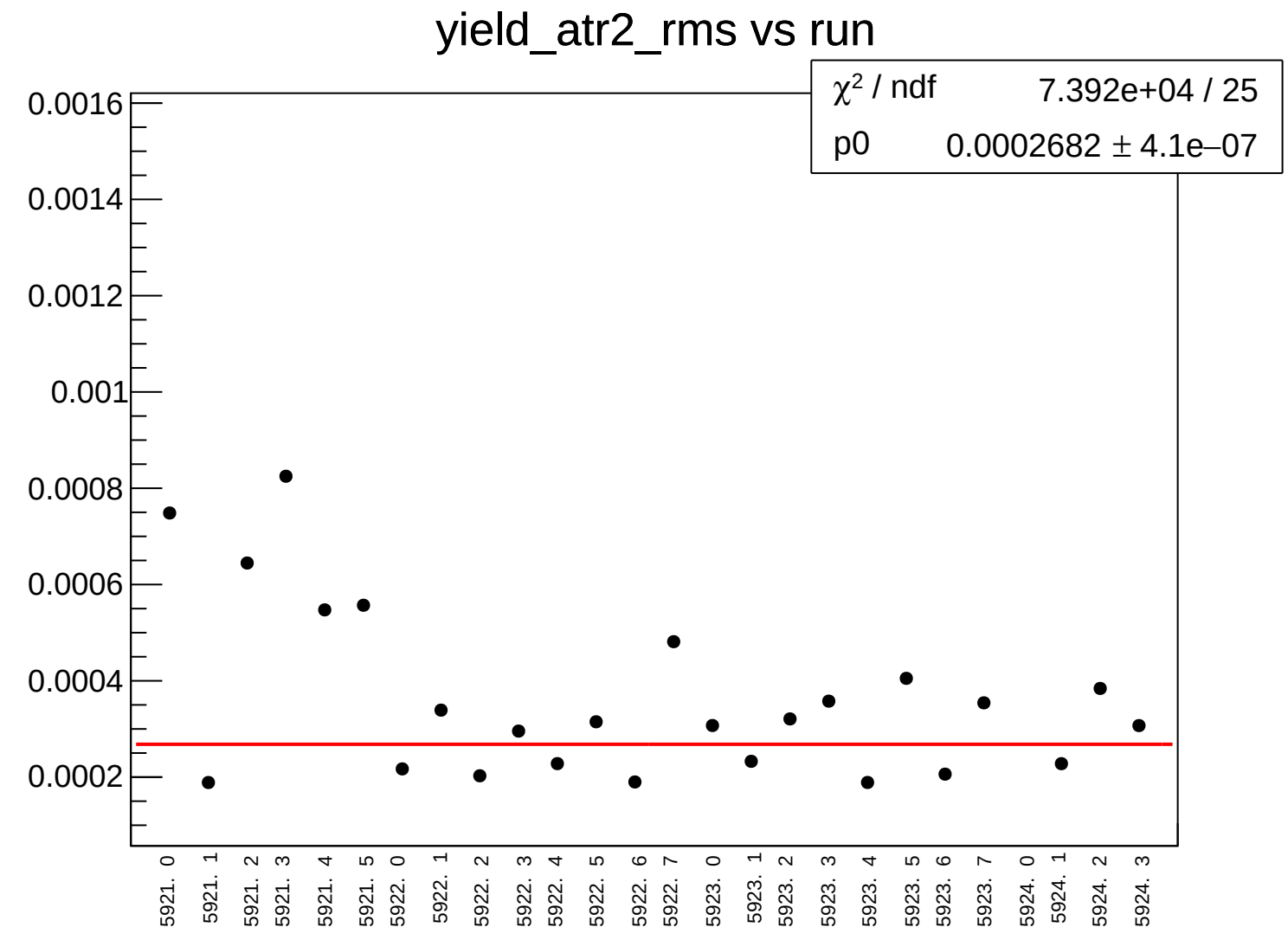

yield_atr1_mean vs run
χ² / ndf 6.766e+04 / 25
p0 0.03918 ± 2.535e−07
0.0393
0.03925
0.0392
0.03915
0.0391
0.03905
0.039
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −80.57
Std Dev 88.2
100
50
0
−50
−100

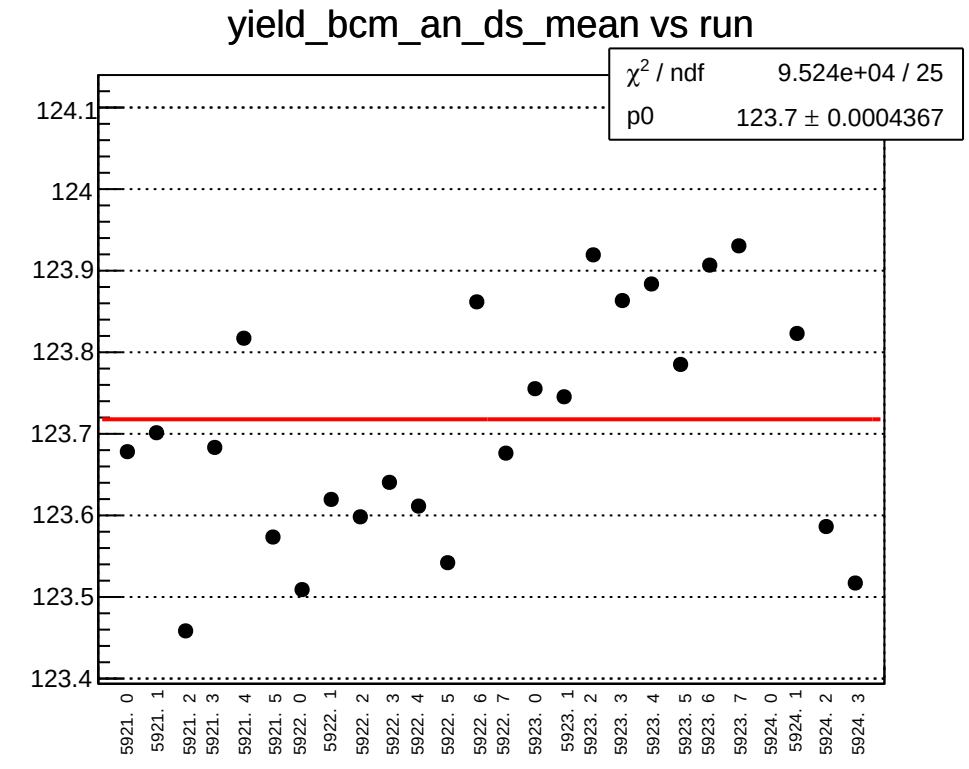

pull1D
Entries 26
Mean −3.452
Std Dev 4.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

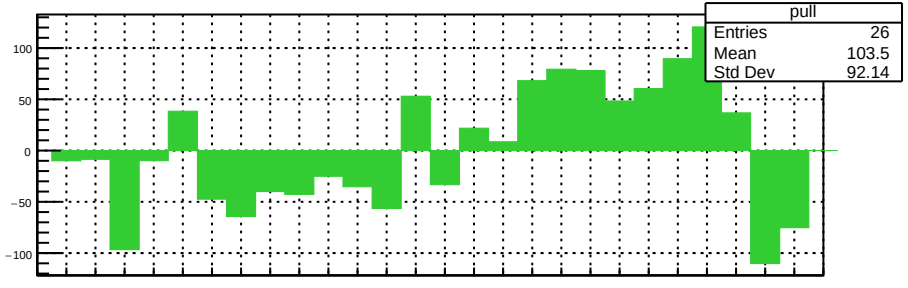

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2138 / 25
p0 0.0001267 ± 1.792e−07
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12
0.115
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

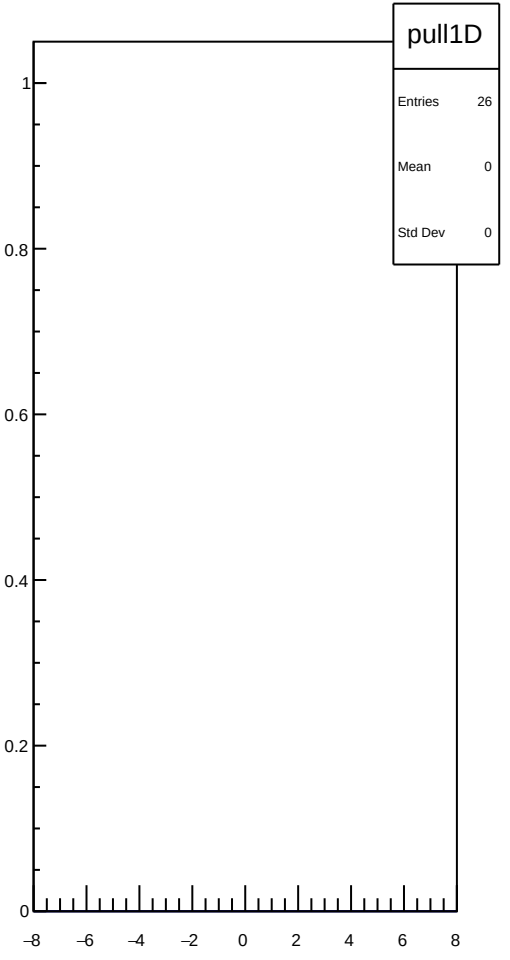

yield_atr2_mean vs run
χ² / ndf 4.323e+04 / 25
p0 0.02724 ± 5.798e−07
0.028
0.0275
0.027
0.0265
0.026
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1.462
Std Dev 11.13
80
60
40
20
0
−20
−40
−60
−80

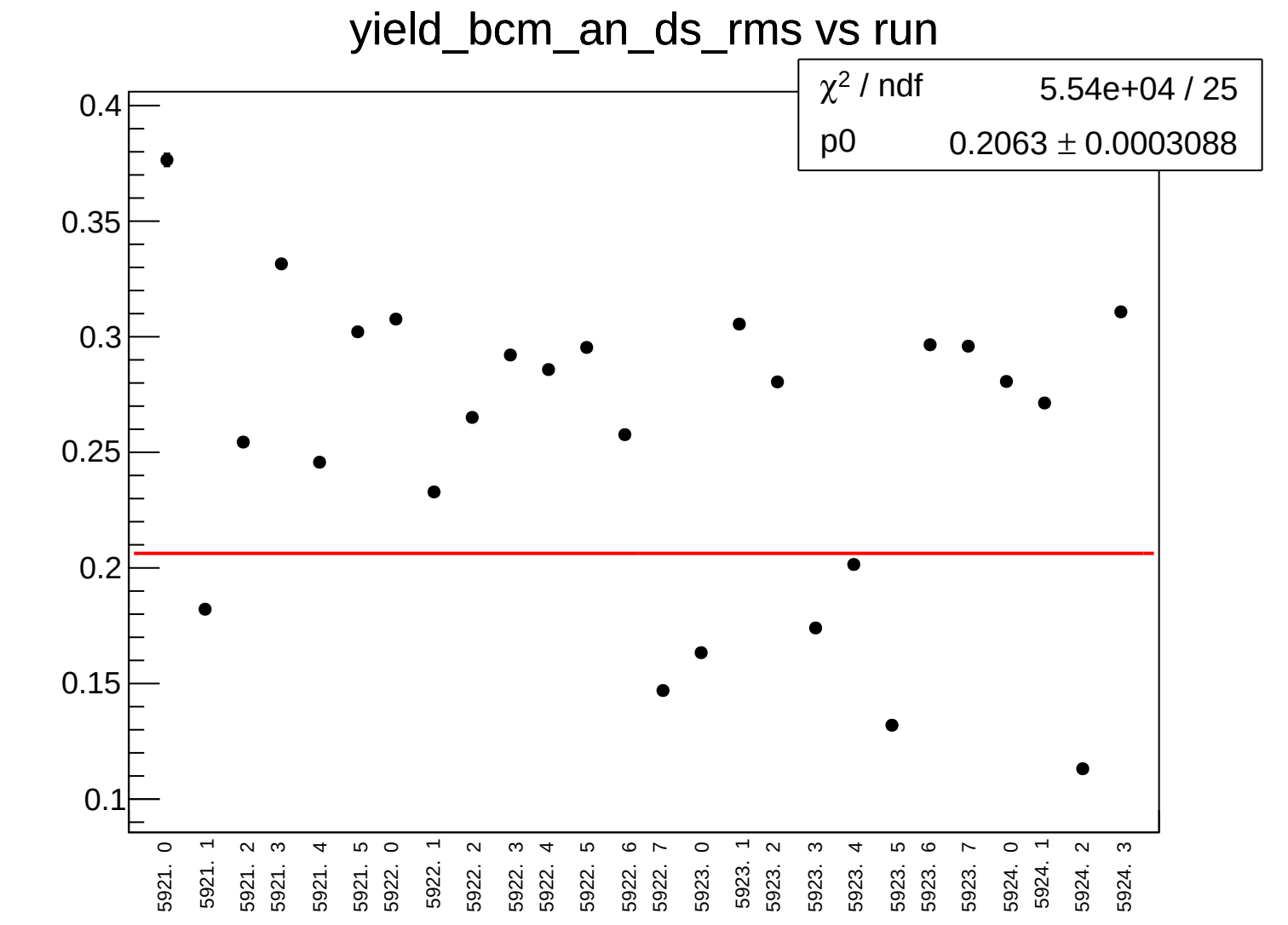

pull1D
Entries 26
Mean 0.01718
Std Dev 3.988
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

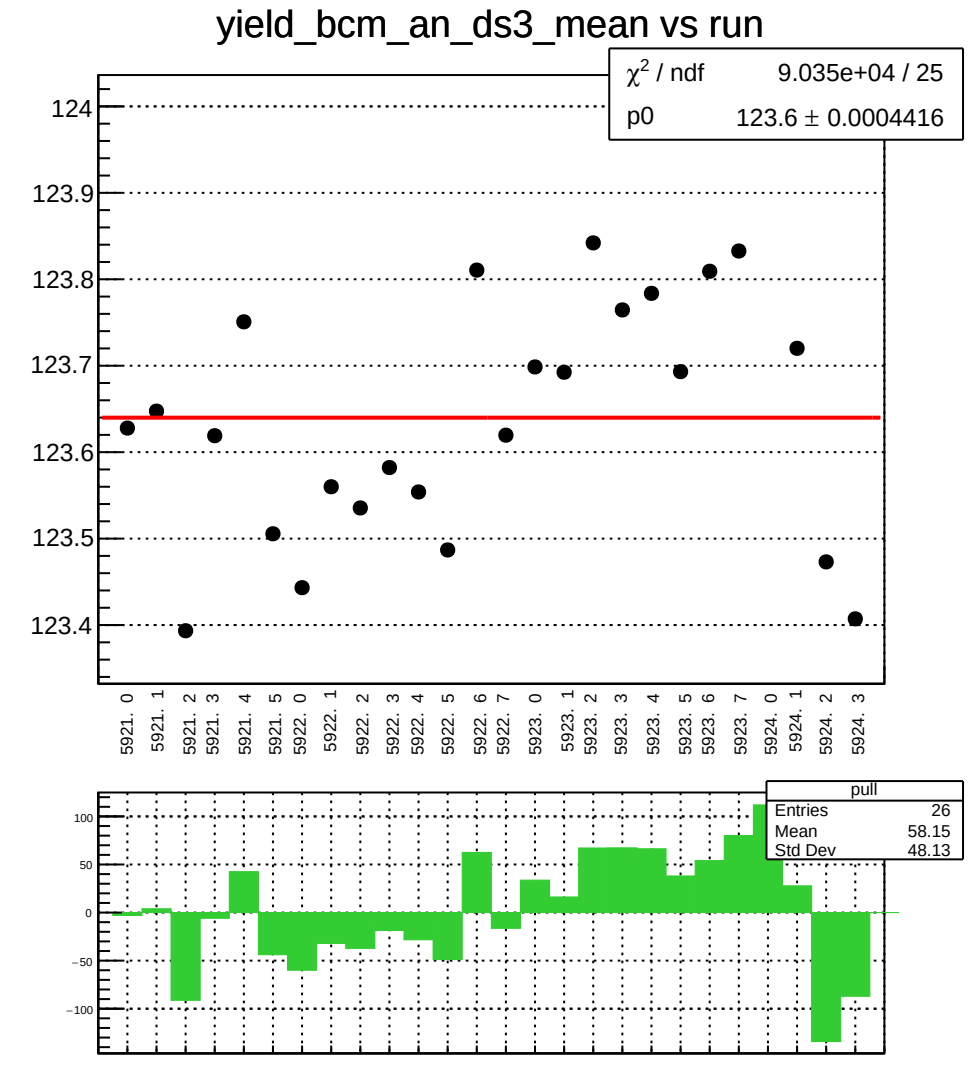

yield_atr2_rms vs run
χ² / ndf 7.392e+04 / 25
p0 0.0002682 ± 4.1e–07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

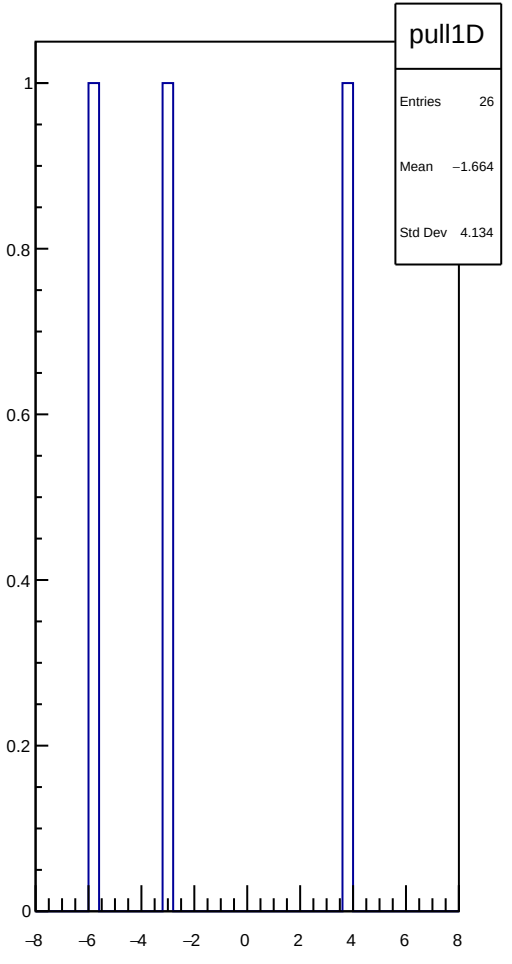

yield_bcm_an_ds_mean vs run
χ² / ndf 9.524e+04 / 25
p0 123.7 ± 0.0004367
124.1
124
123.9
123.8
123.7
123.6
123.5
123.4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

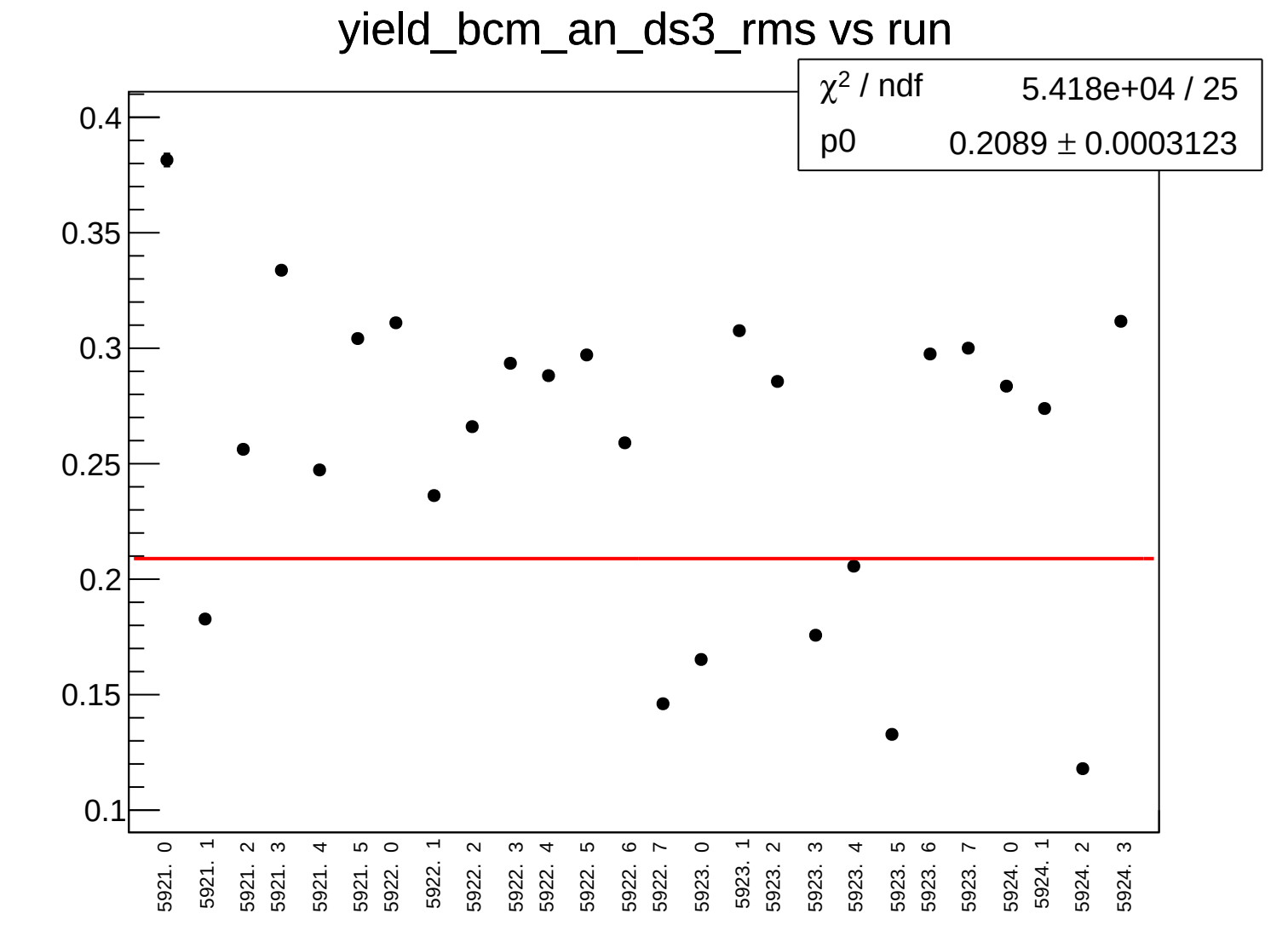

pull
Entries 26
Mean 103.5
Std Dev 92.14
100
50
0
−50
−100

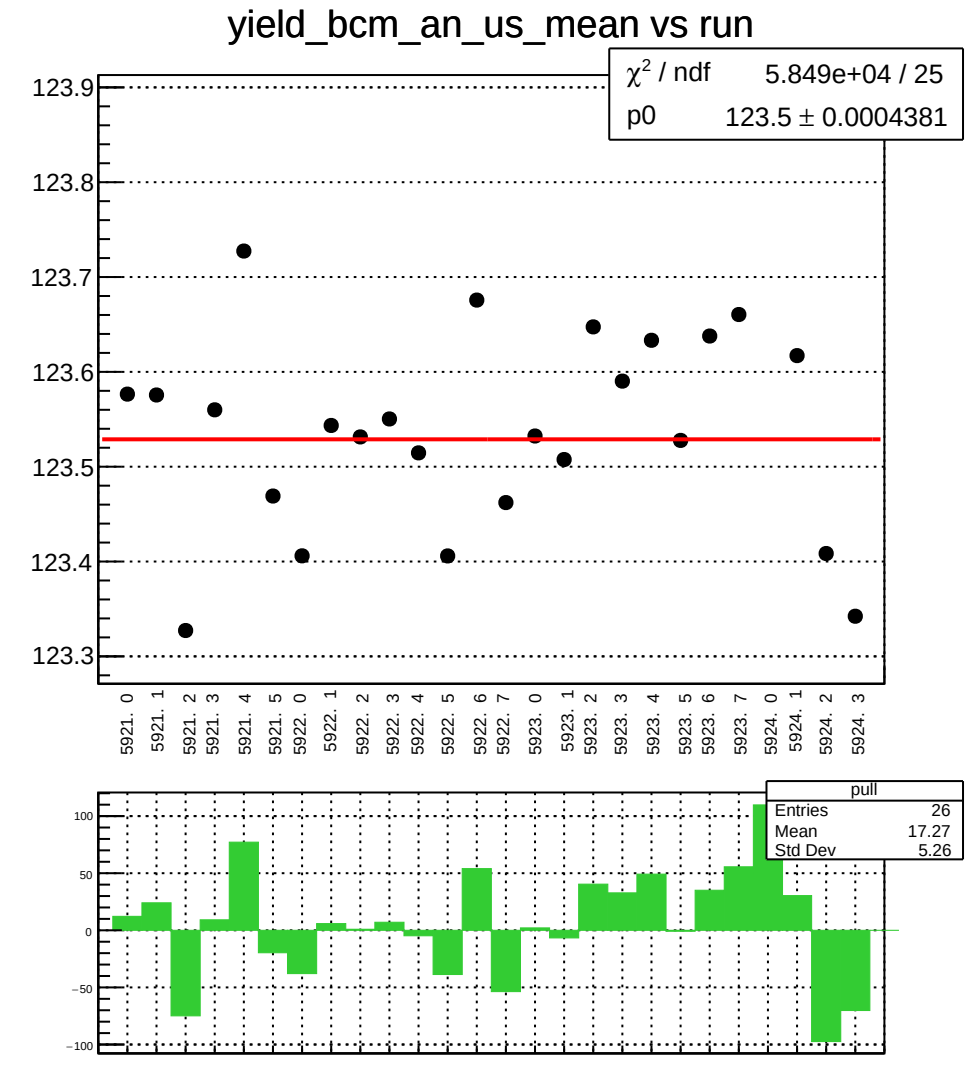

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

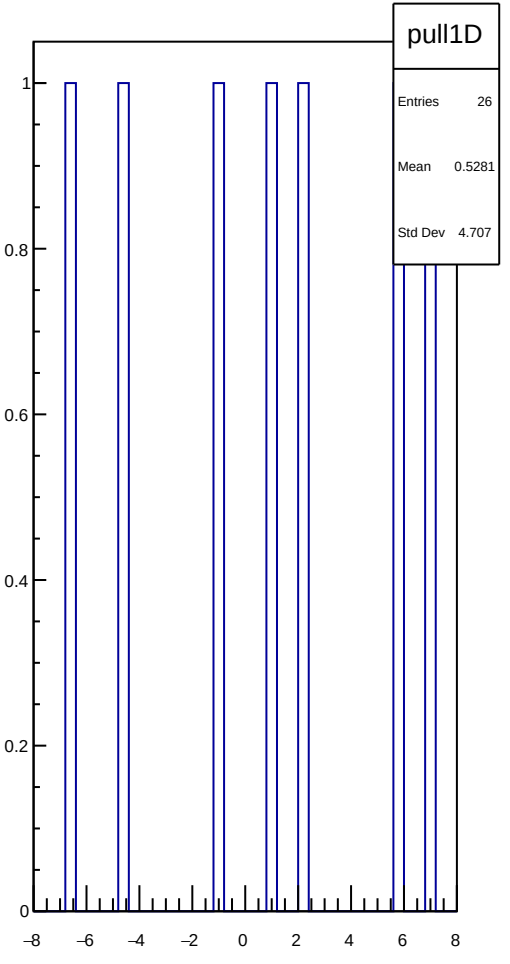

yield_bcm_an_ds_rms vs run
χ² / ndf 5.54e+04 / 25
p0 0.2063 ± 0.0003088
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

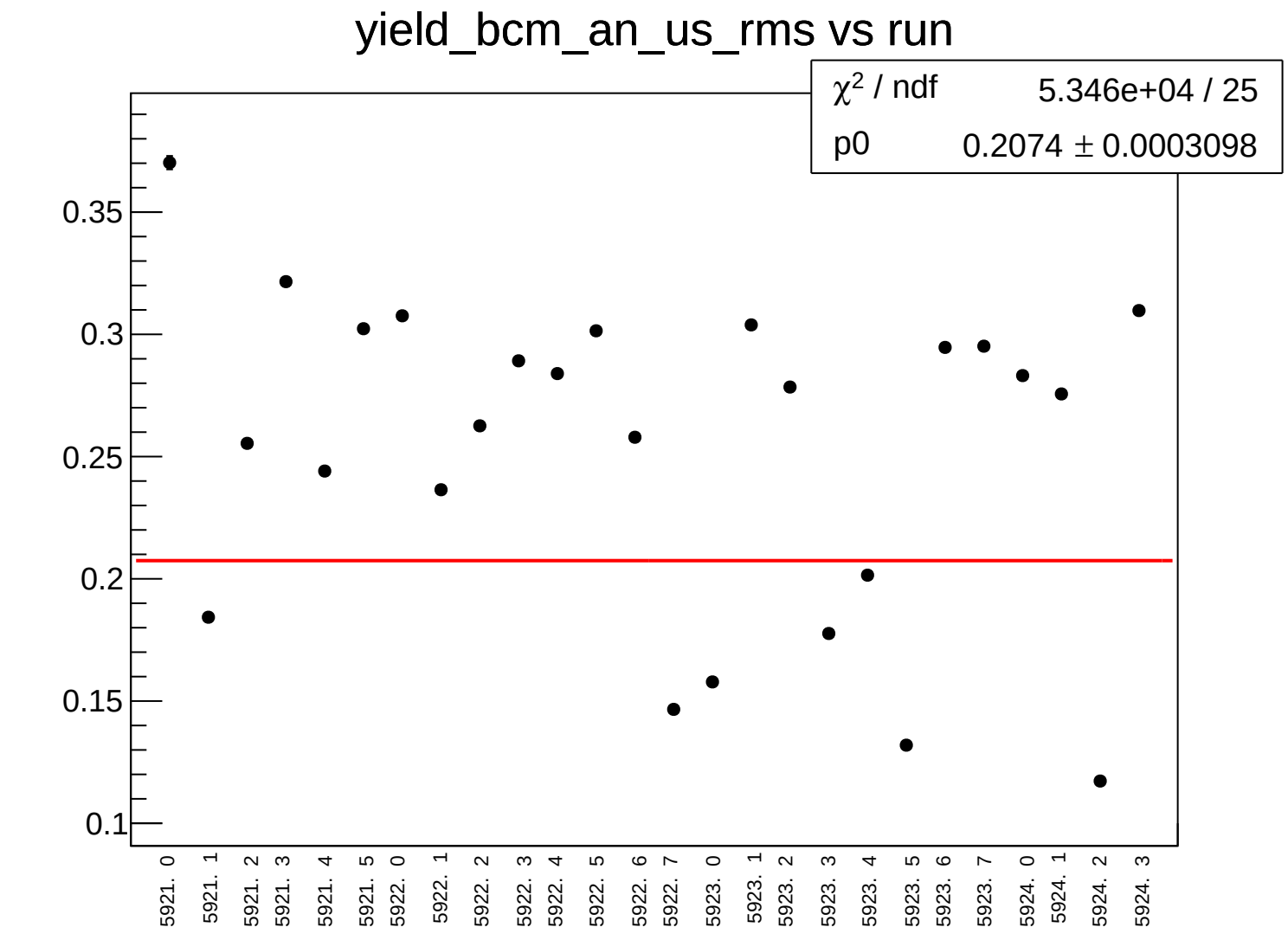

yield_bcm_an_ds3_mean vs run
χ² / ndf 9.035e+04 / 25
p0 123.6 ± 0.0004416
124
123.9
123.8
123.7
123.6
123.5
123.4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 58.15
Std Dev 48.13
100
50
0
−50
−100

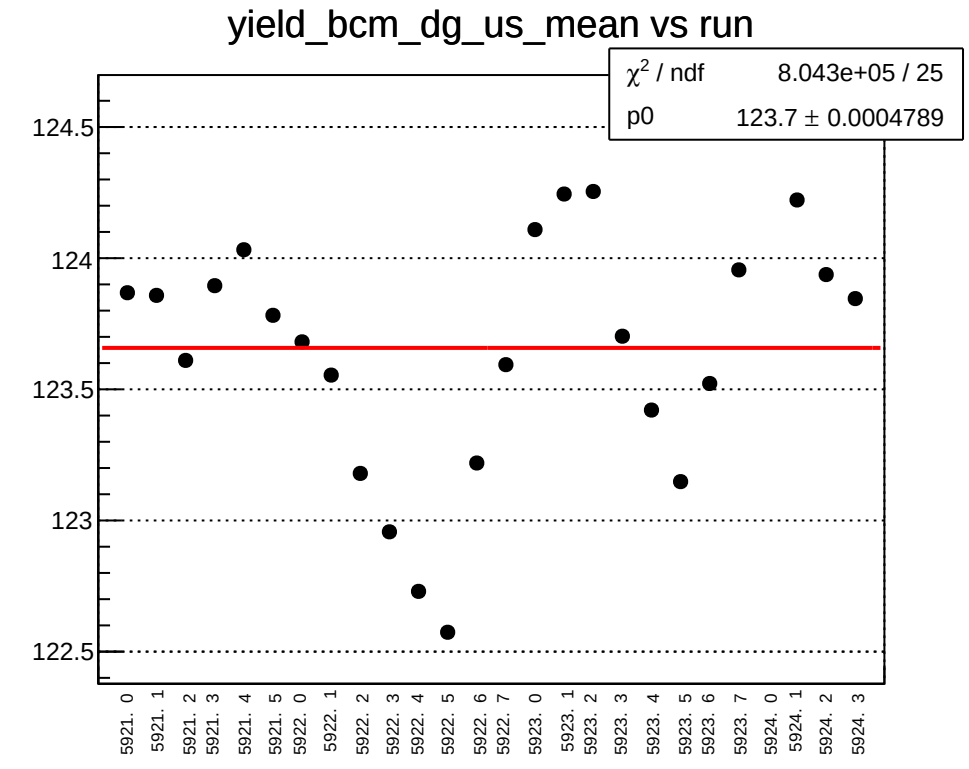

pull1D
Entries 26
Mean −1.664
Std Dev 4.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

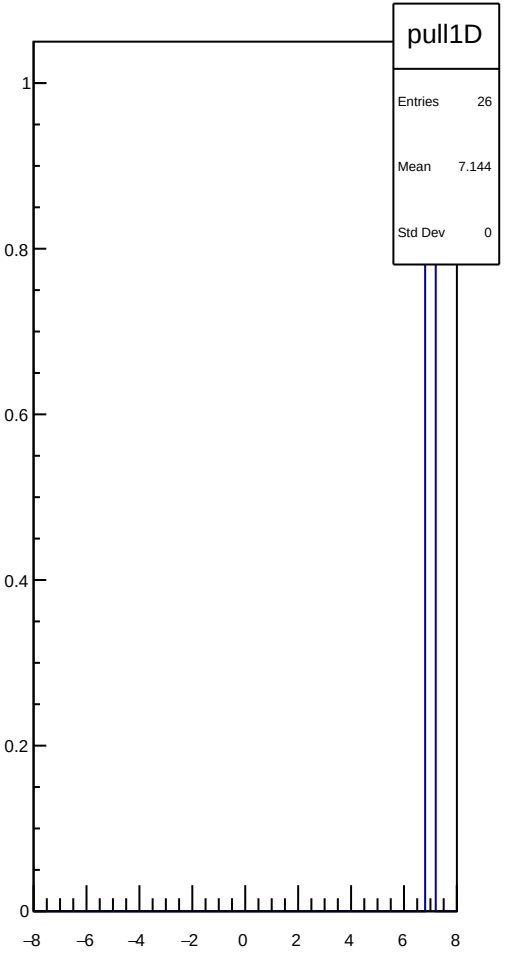

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.418e+04 / 25
p0 0.2089 ± 0.0003123
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

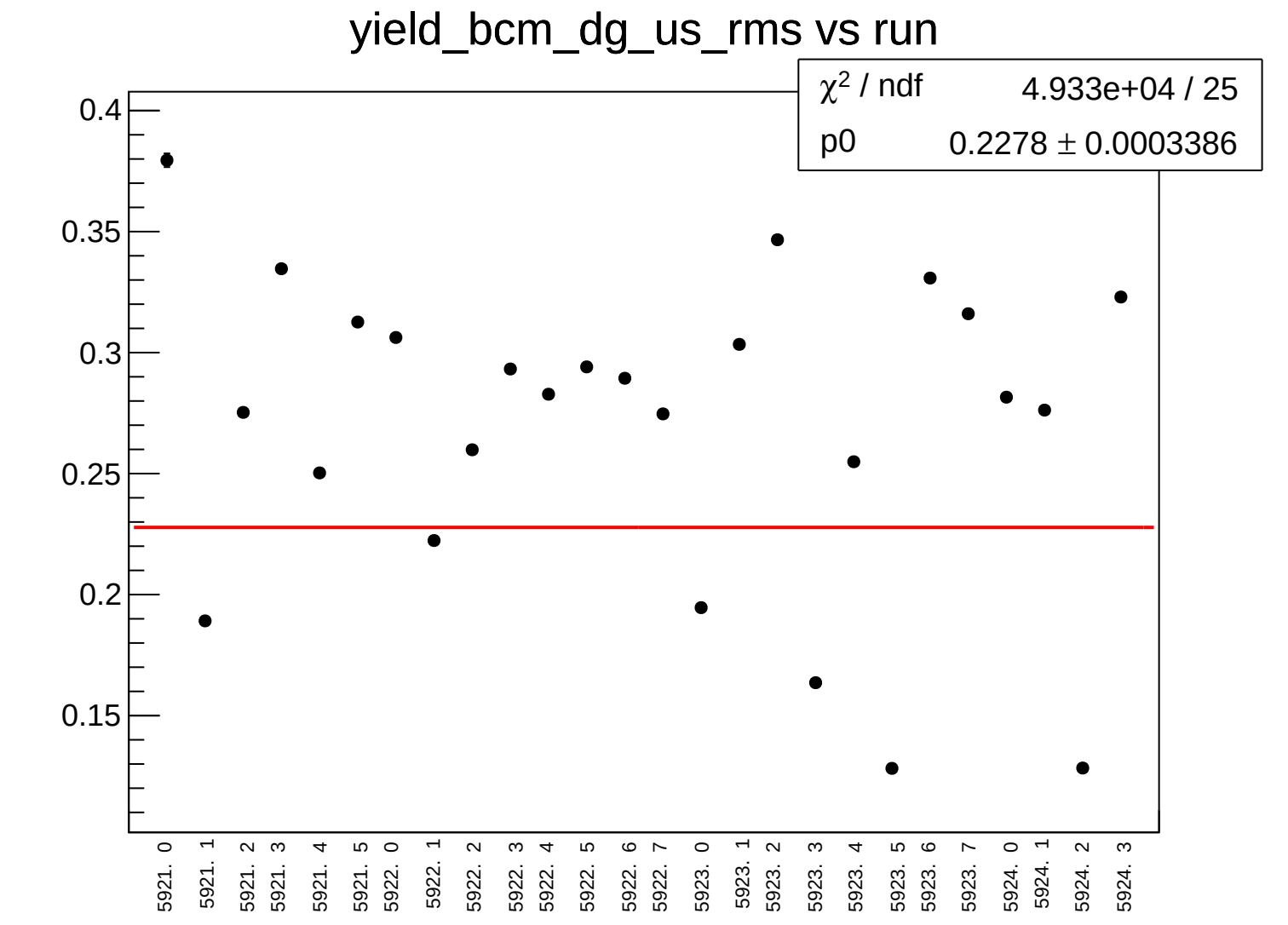

yield_bcm_an_us_mean vs run
χ² / ndf 5.849e+04 / 25
p0 123.5 ± 0.0004381
123.9
123.8
123.7
123.6
123.5
123.4
123.3
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 17.27
Std Dev 5.26
100
50
0
−50
−100

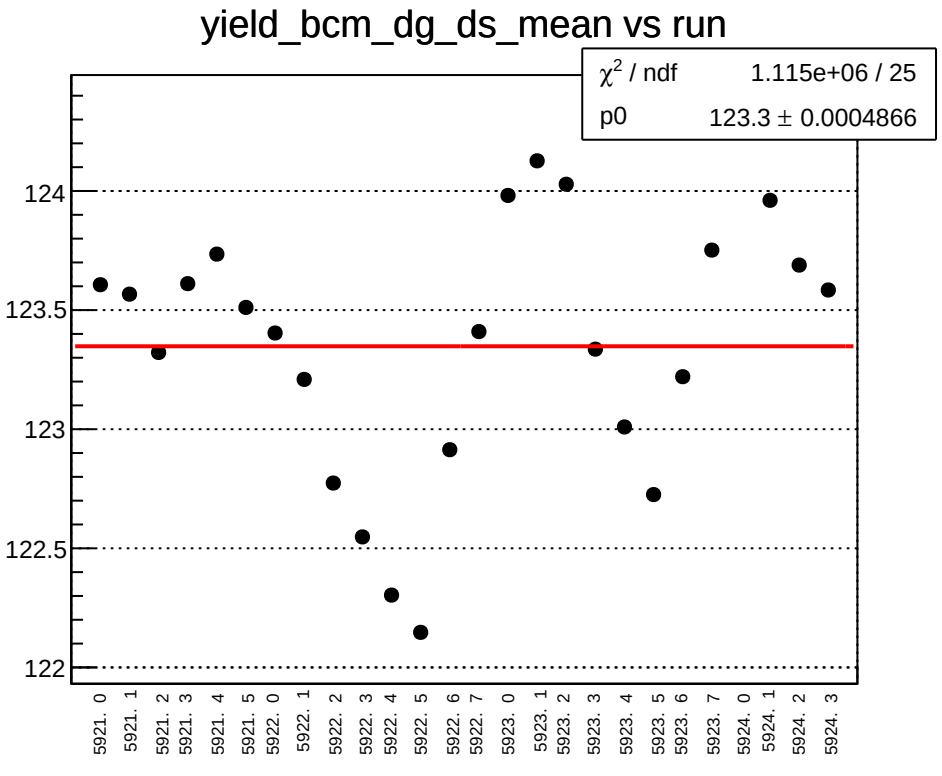

pull1D
Entries 26
Mean 0.5281
Std Dev 4.707
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

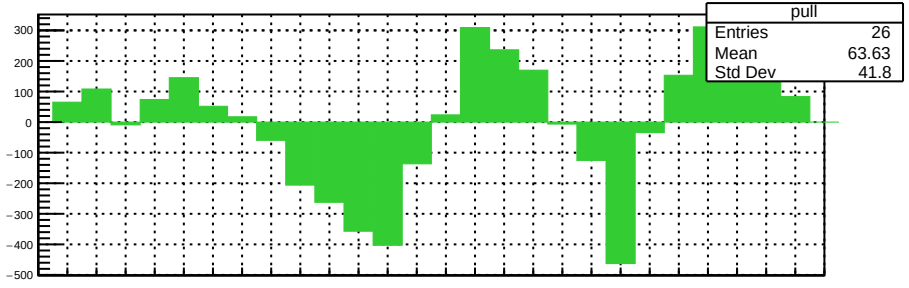

yield_bcm_an_us_rms vs run
χ² / ndf 5.346e+04 / 25
p0 0.2074 ± 0.0003098
0.35
0.3
0.25
0.2
0.15
0.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

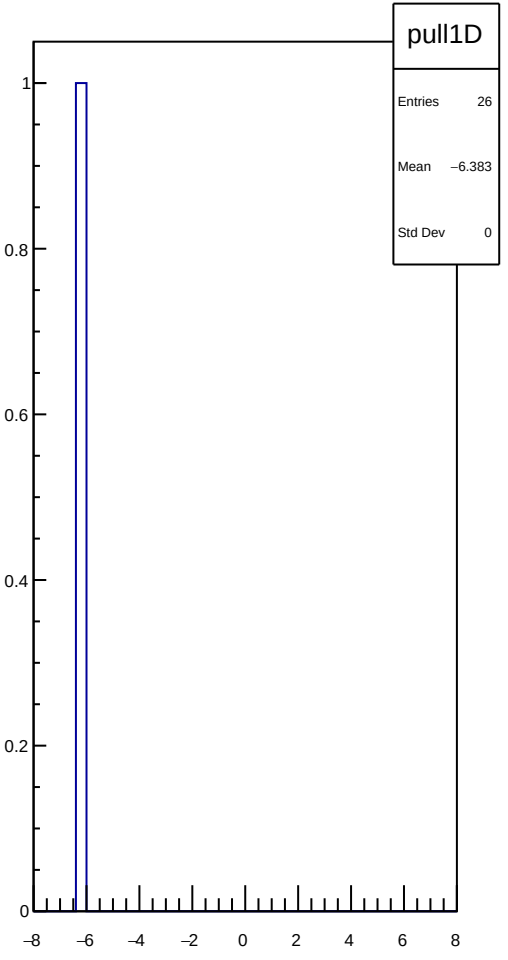

yield_bcm_dg_us_mean vs run
χ² / ndf 8.043e+05 / 25
p0 123.7 ± 0.0004789
124.5
124
123.5
123
122.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 104.4
Std Dev 83
300
200
100
0
−100
−200
−300
−400

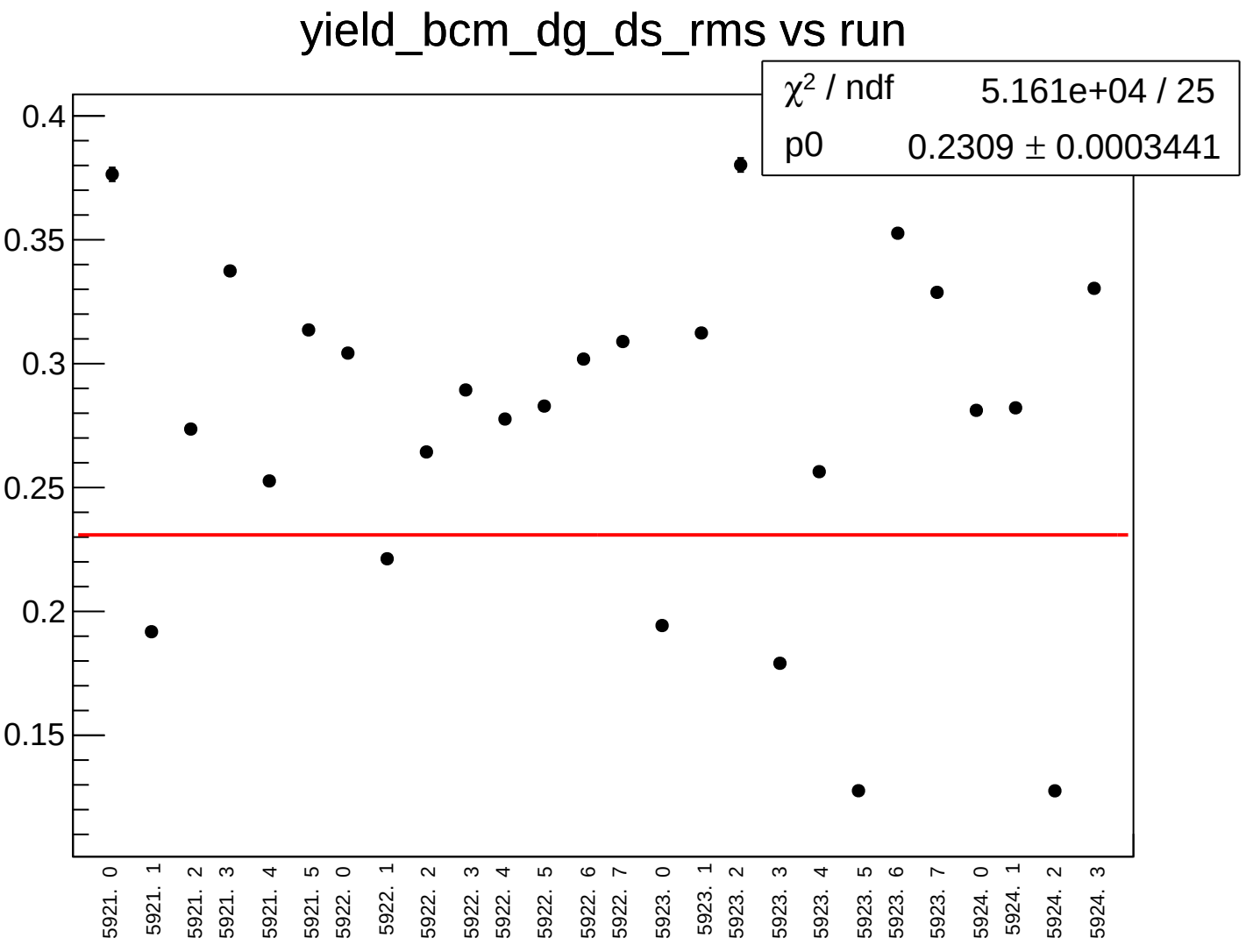

pull1D
Entries 26
Mean 7.144
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

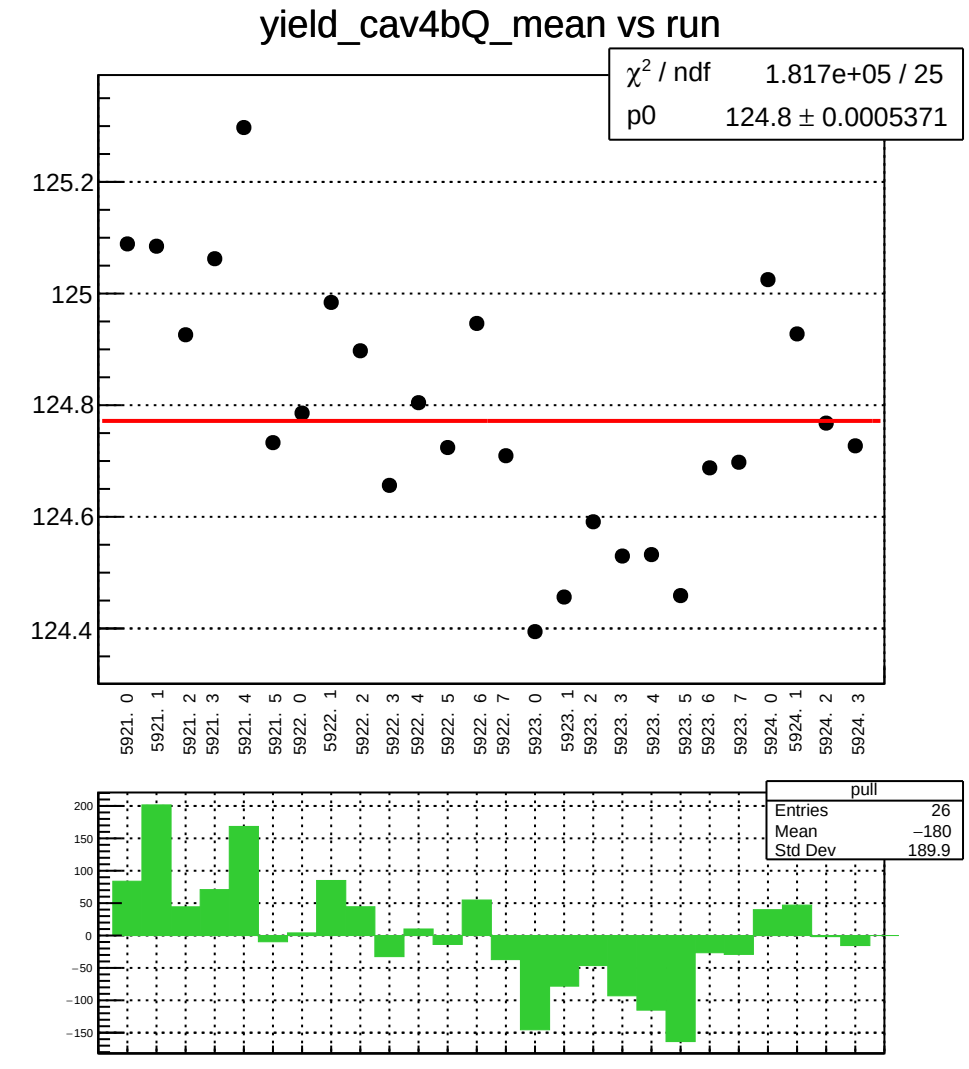

yield_bcm_dg_us_rms vs run
χ2 / ndf 4.933e+04 / 25
p0 0.2278 ± 0.0003386
0.4
0.35
0.3
0.25
0.2
0.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

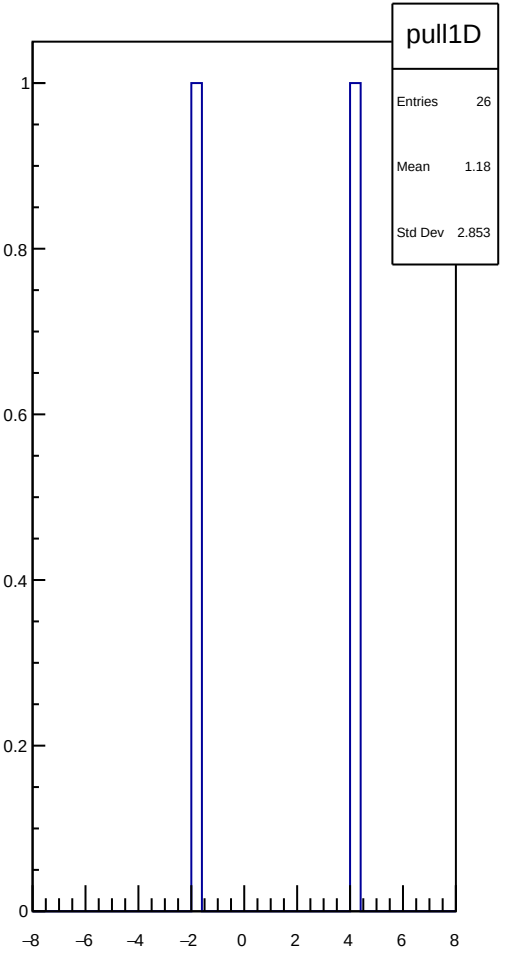

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.115e+06 / 25
p0 123.3 ± 0.0004866
124
123.5
123
122.5
122
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

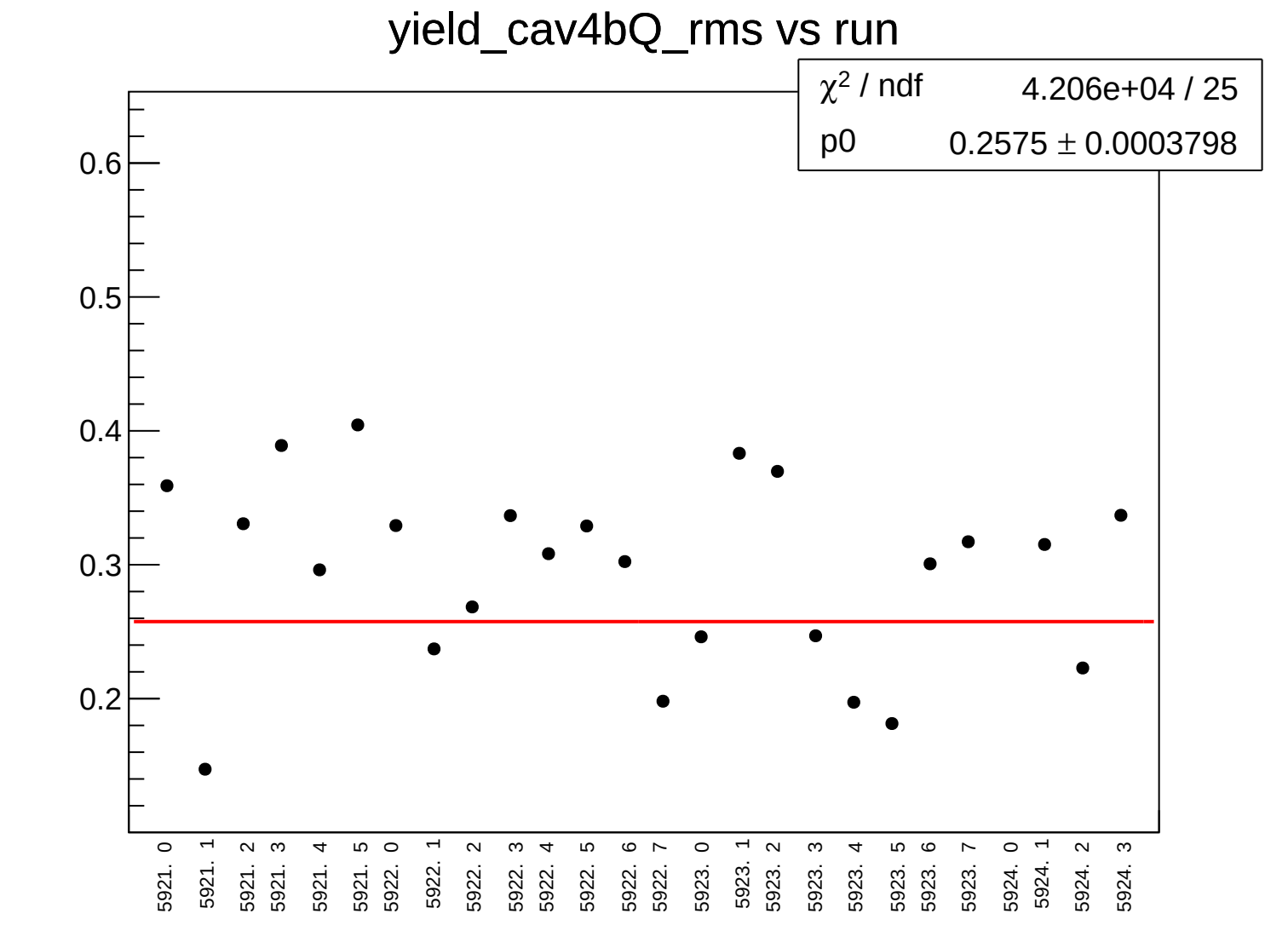

pull
Entries 26
Mean 63.63
Std Dev 41.8
300
200
100
0
−100
−200
−300
−400
−500

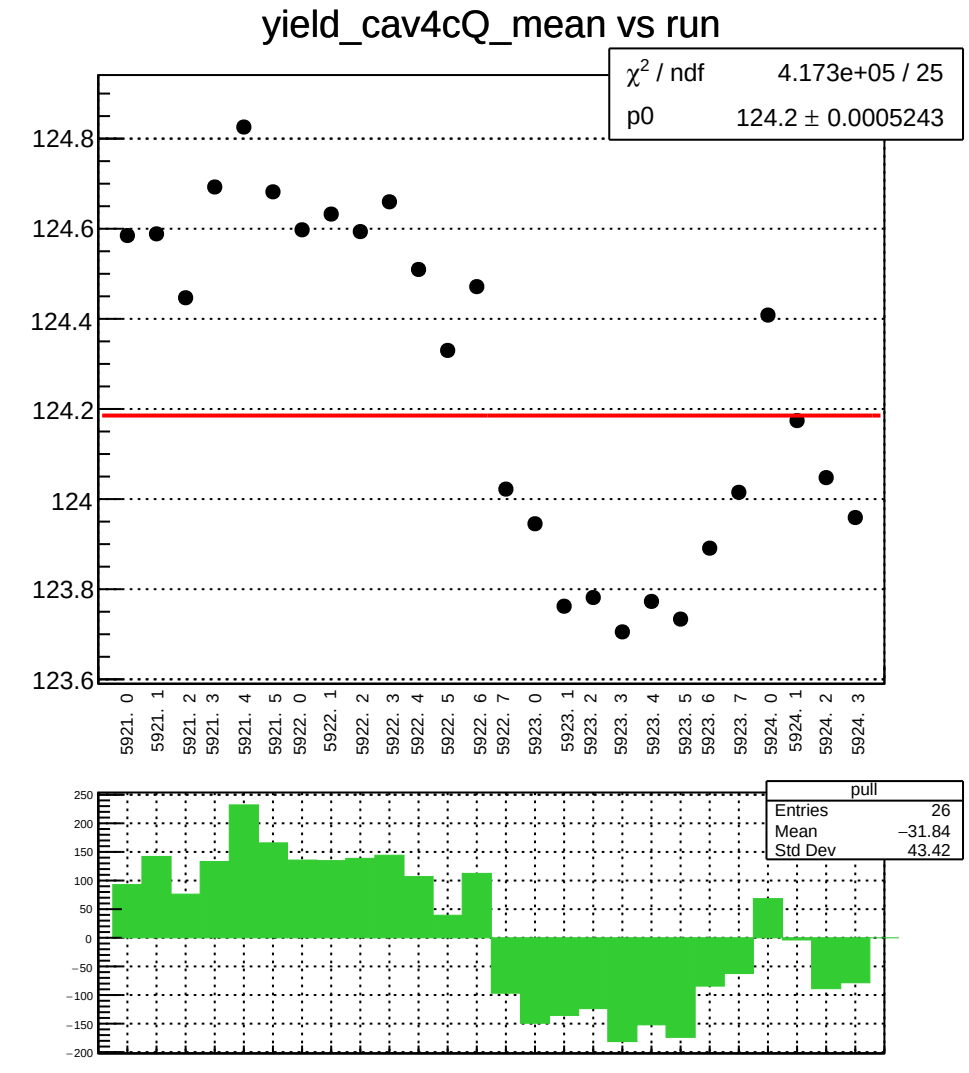

pull1D
Entries 26
Mean −6.383
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

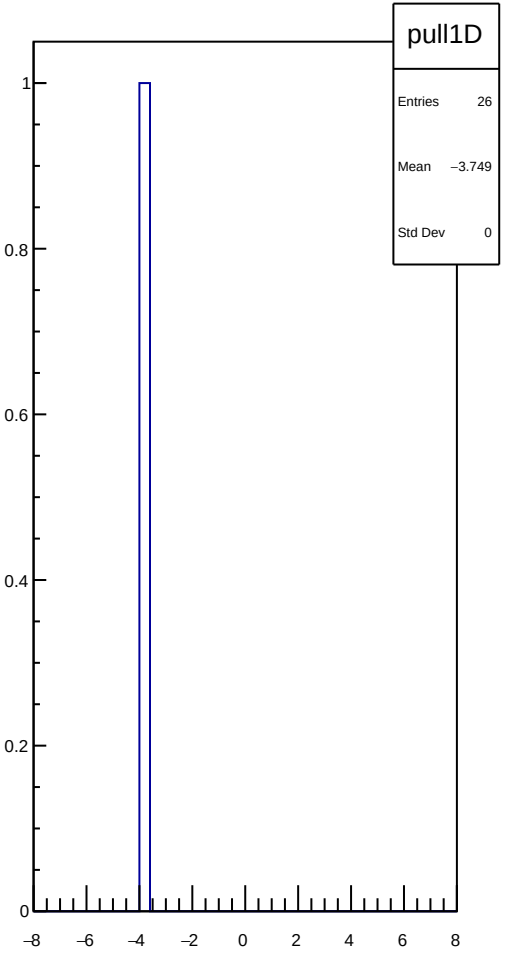

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.161e+04 / 25
p0 0.2309 ± 0.0003441
0.4
0.35
0.3
0.25
0.2
0.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

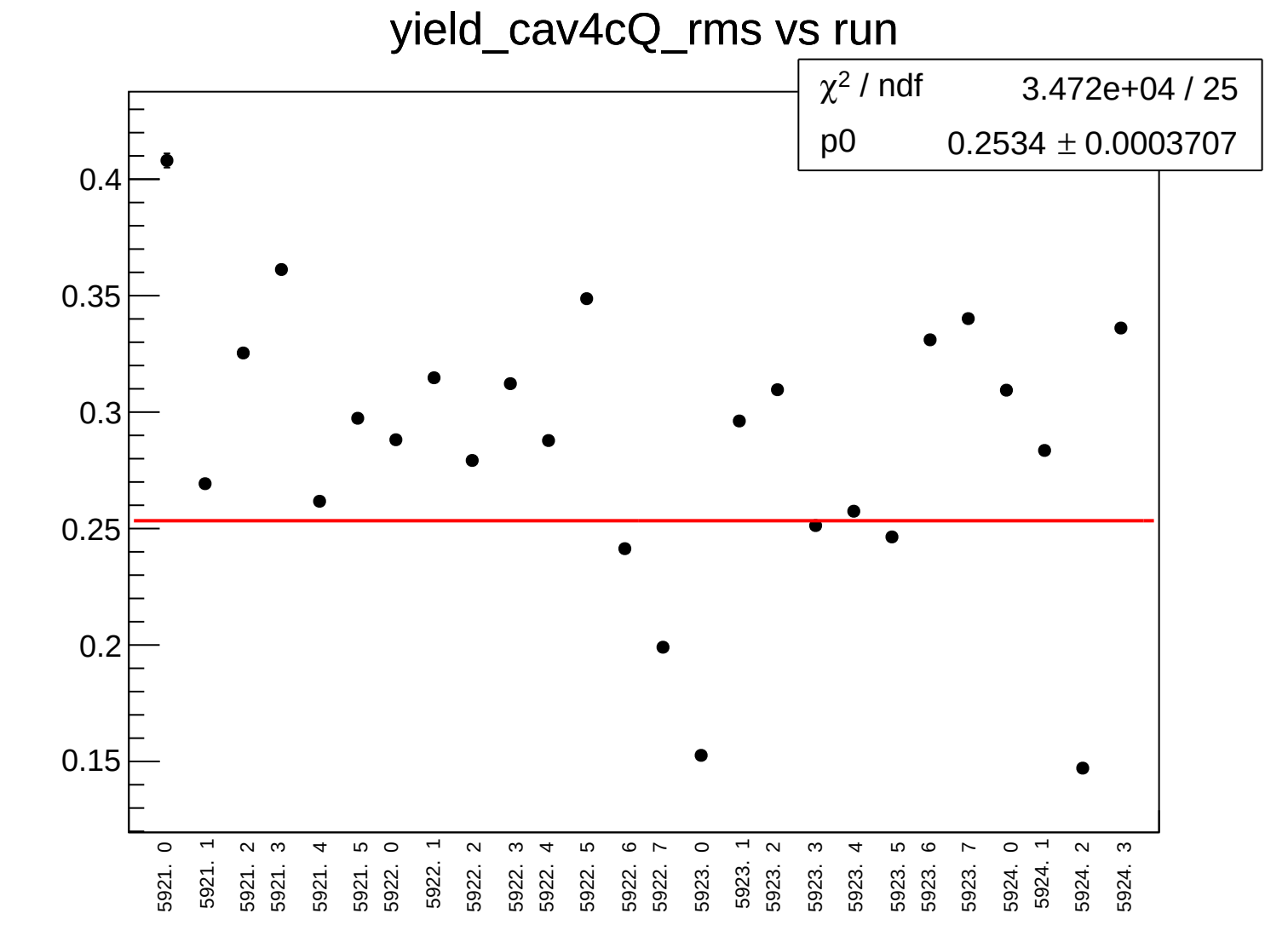

yield_cav4bQ_mean vs run
χ² / ndf 1.817e+05 / 25
p0 124.8 ± 0.0005371
125.2
125
124.8
124.6
124.4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −180
Std Dev 189.9
200
150
100
50
0
−50
−100
−150

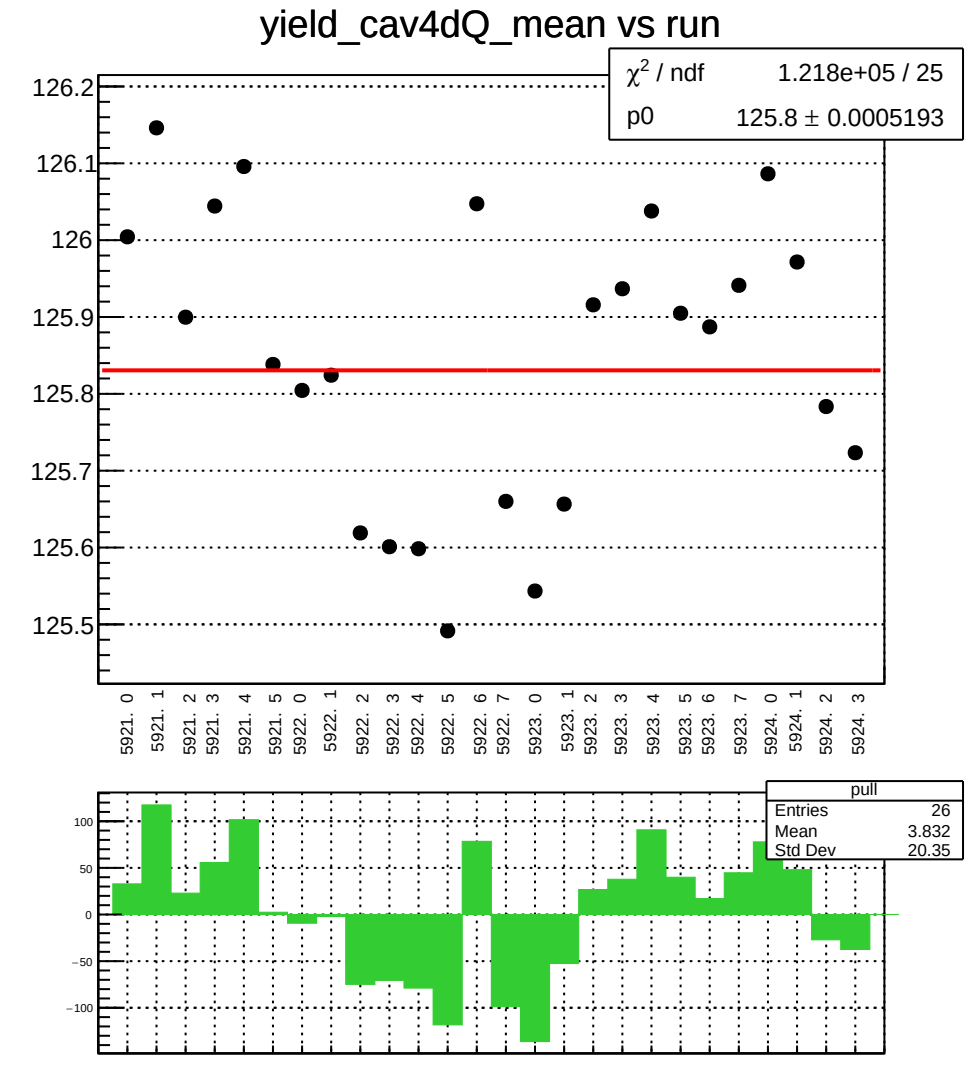

pull1D
Entries 26
Mean 1.18
Std Dev 2.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

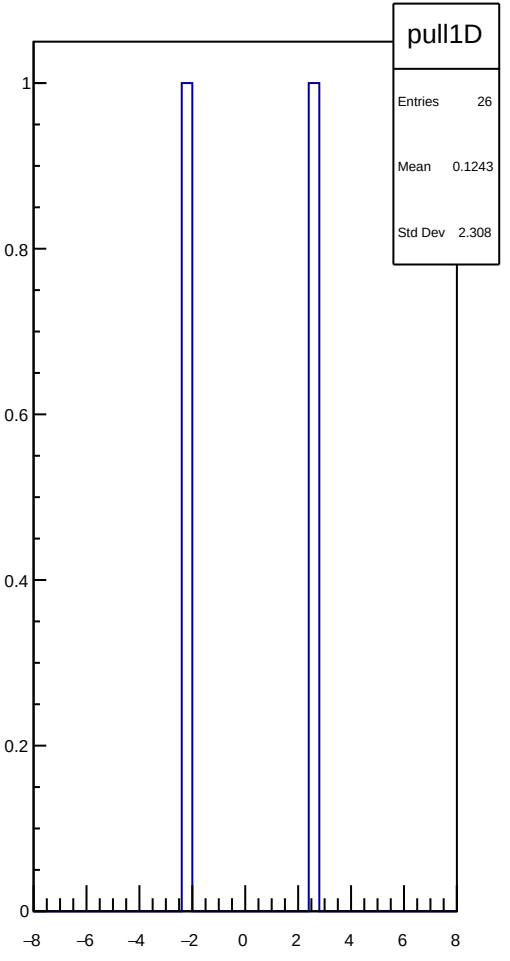

yield_cav4bQ_rms vs run
χ² / ndf 4.206e+04 / 25
p0 0.2575 ± 0.0003798
0.6
0.5
0.4
0.3
0.2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

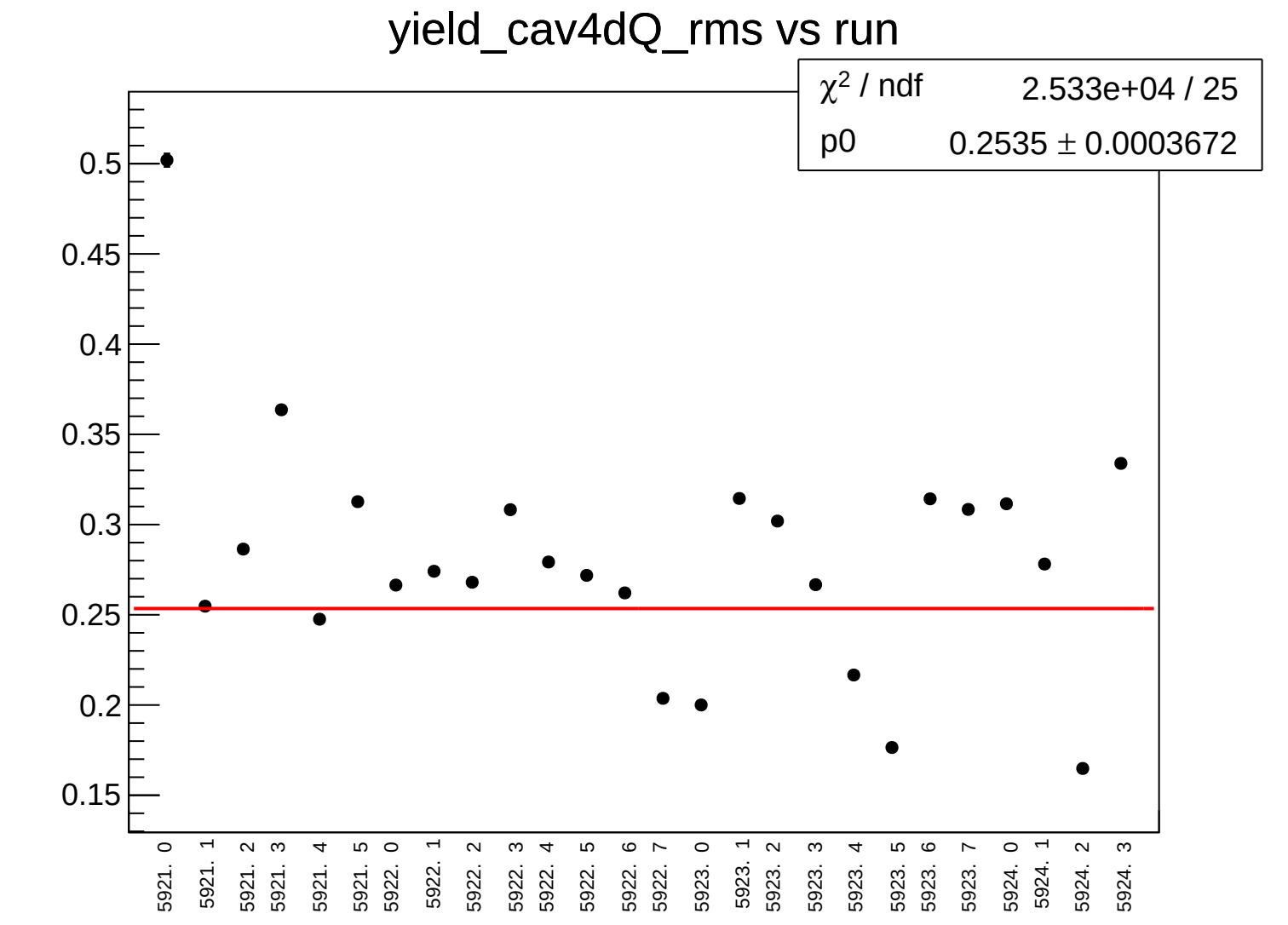

yield_cav4cQ_mean vs run
χ² / ndf 4.173e+05 / 25
p0 124.2 ± 0.0005243
124.8
124.6
124.4
124.2
124
123.8
123.6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −31.84
Std Dev 43.42
250
200
150
100
50
0
−50
−100
−150
−200

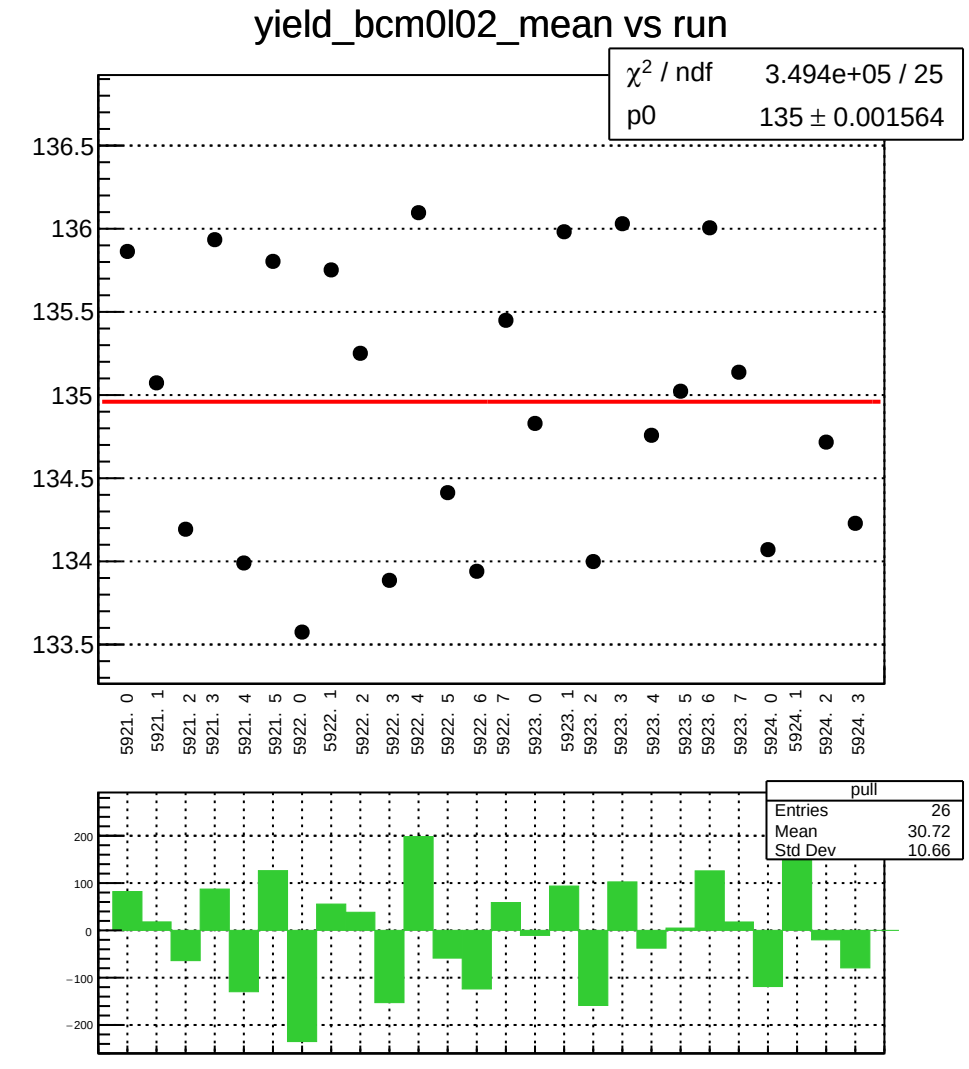

pull1D
Entries 26
Mean −3.749
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

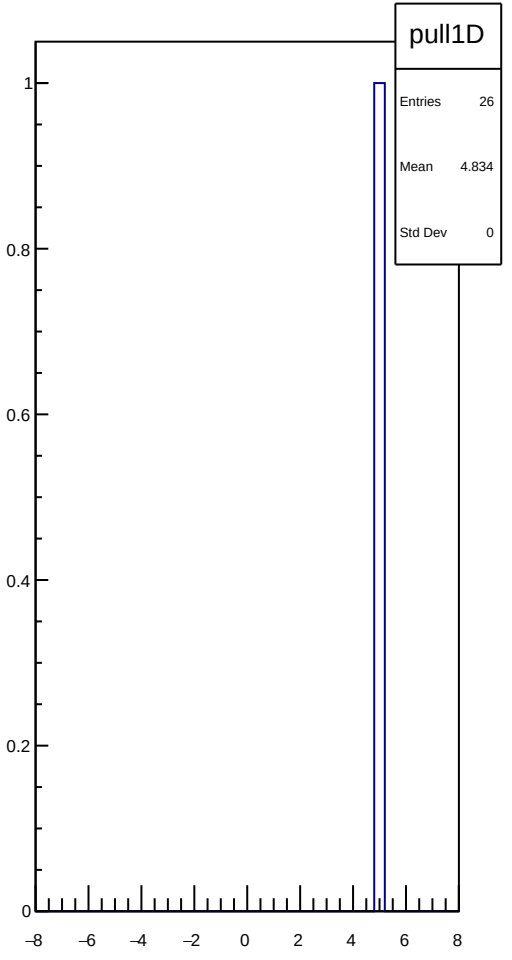

yield_cav4cQ_rms vs run
χ2 / ndf 3.472e+04 / 25
p0 0.2534 ± 0.0003707
0.4
0.35
0.3
0.25
0.2
0.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

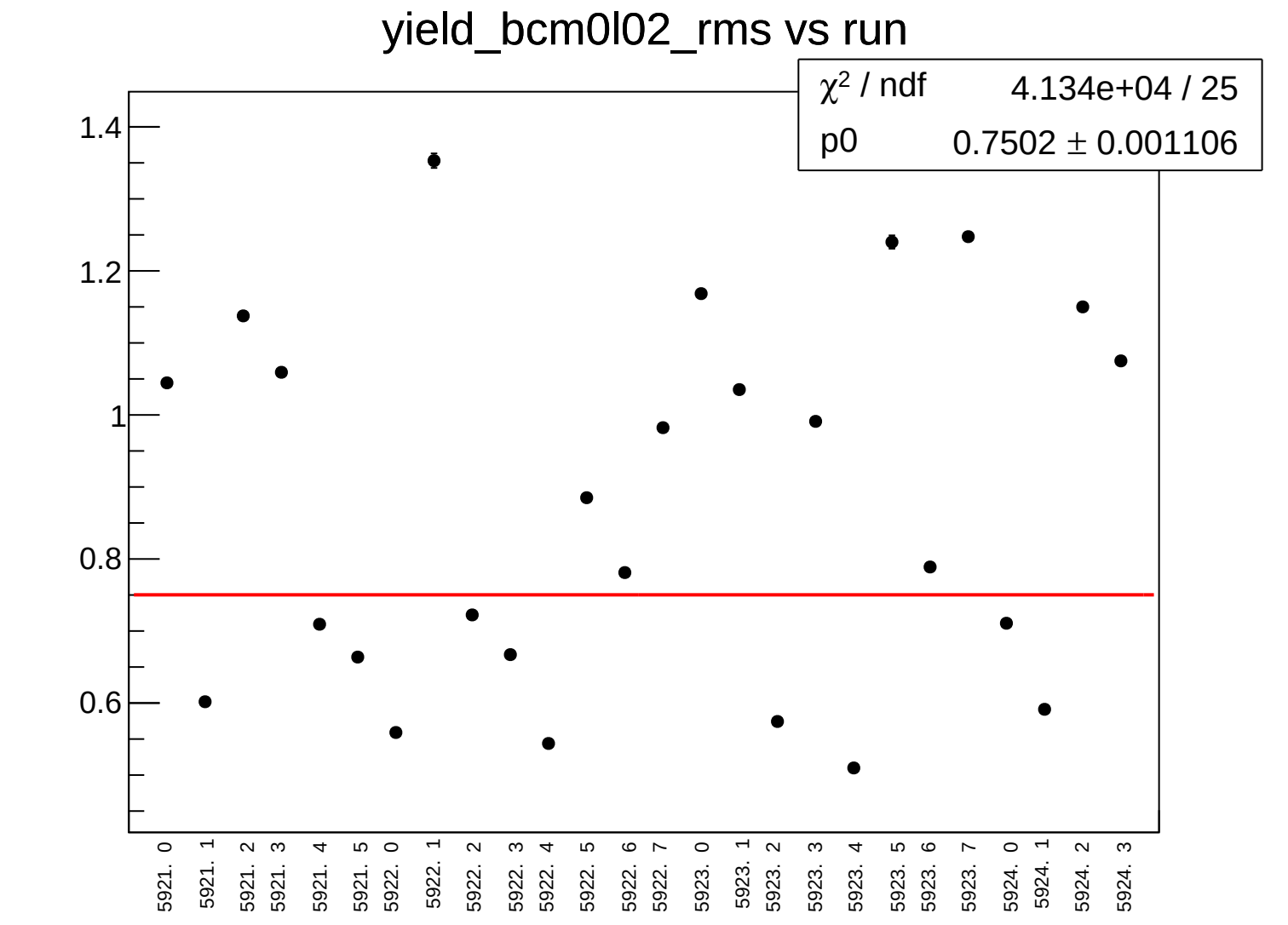

yield_cav4dQ_mean vs run
χ² / ndf 1.218e+05 / 25
p0 125.8 ± 0.0005193
126.2
126.1
126
125.9
125.8
125.7
125.6
125.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 3.832
Std Dev 20.35
100
50
0
−50
−100

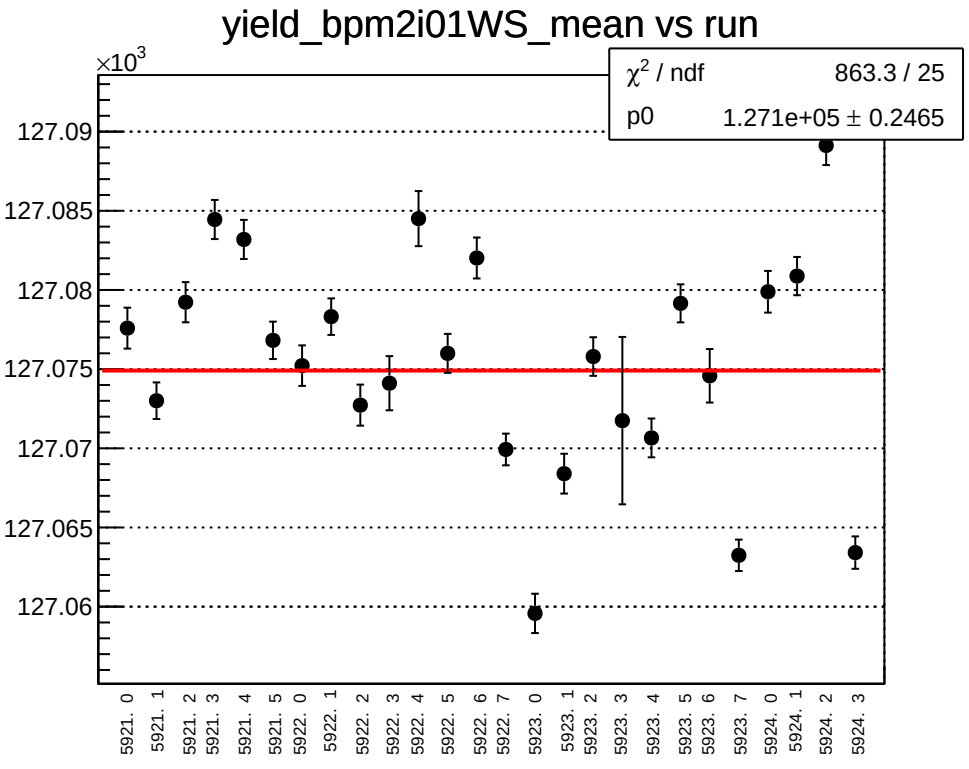

pull1D
Entries 26
Mean 0.1243
Std Dev 2.308
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

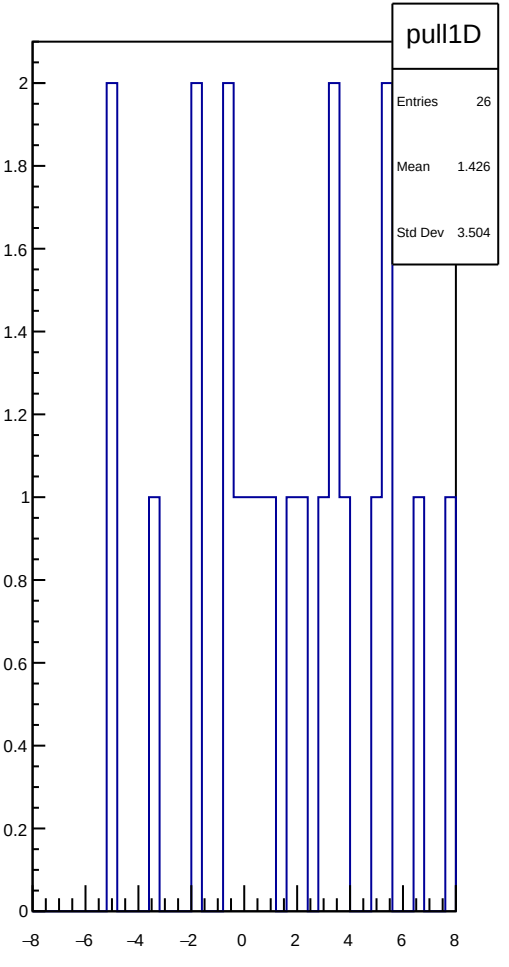

yield_cav4dQ_rms vs run
χ² / ndf 2.533e+04 / 25
p0 0.2535 ± 0.0003672
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

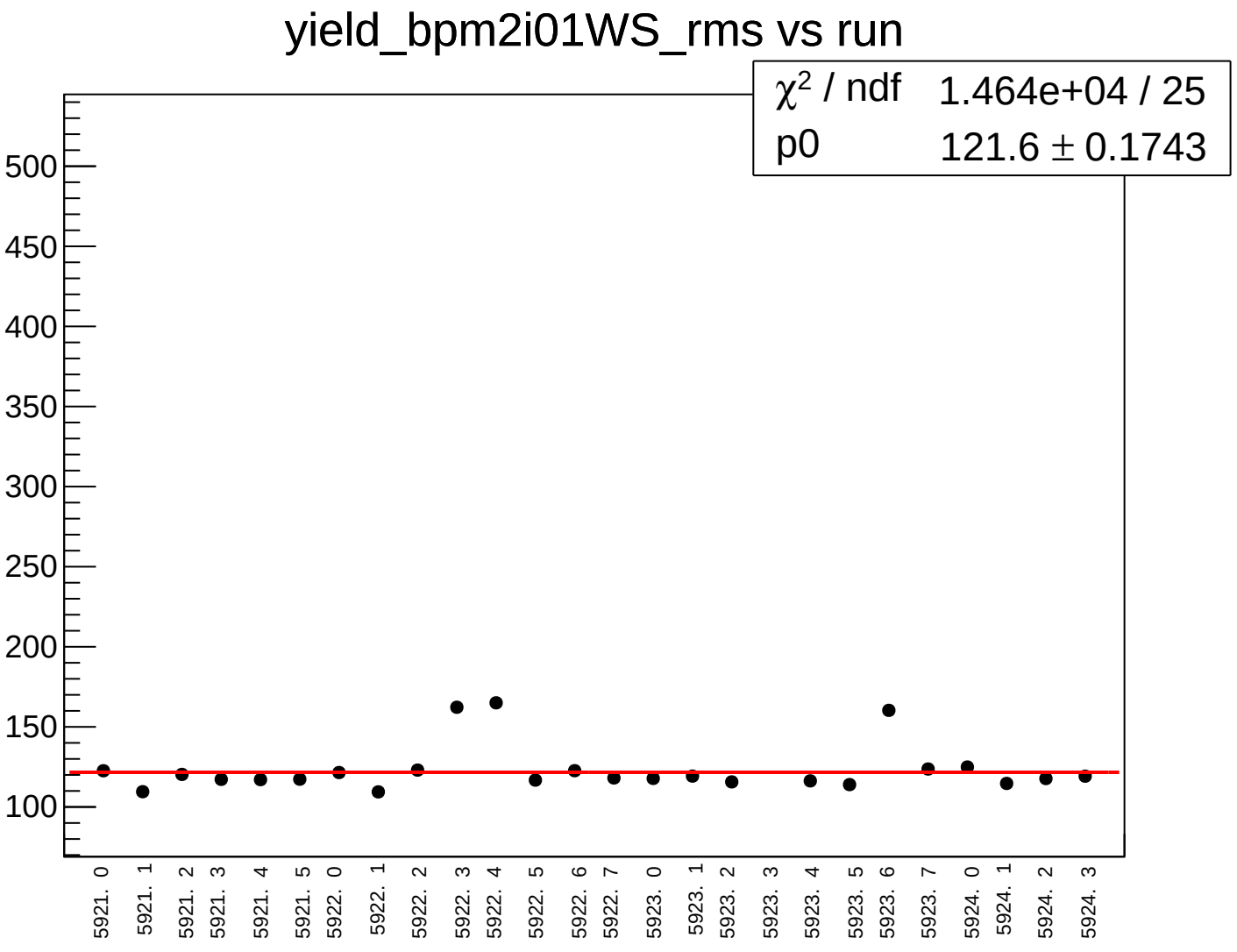

yield_bcm0l02_mean vs run
χ² / ndf 3.494e+05 / 25
p0 135 ± 0.001564
136.5
136
135.5
135
134.5
134
133.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 30.72
Std Dev 10.66
200
100
0
−100
−200

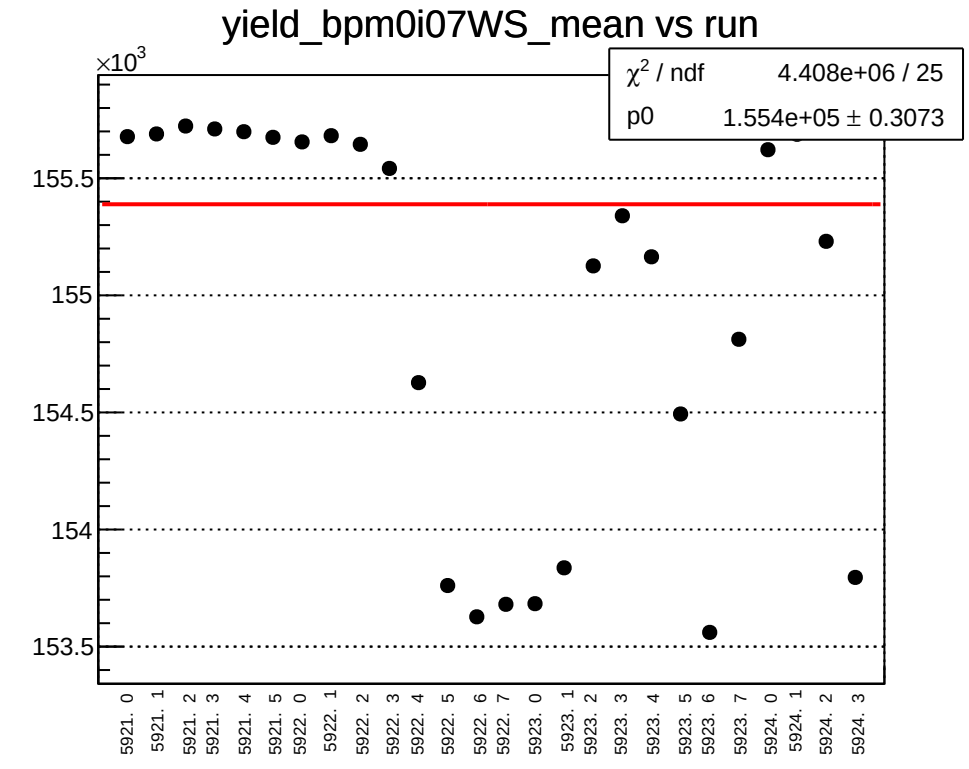

pull1D
Entries 26
Mean 4.834
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

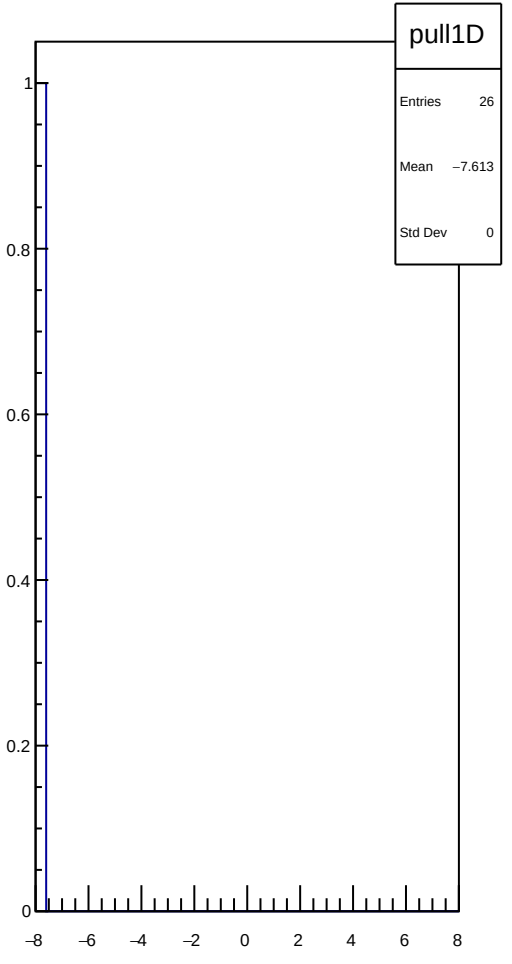

yield_bcm0l02_rms vs run
χ² / ndf 4.134e+04 / 25
p0 0.7502 ± 0.001106
1.4
1.2
1
0.8
0.6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

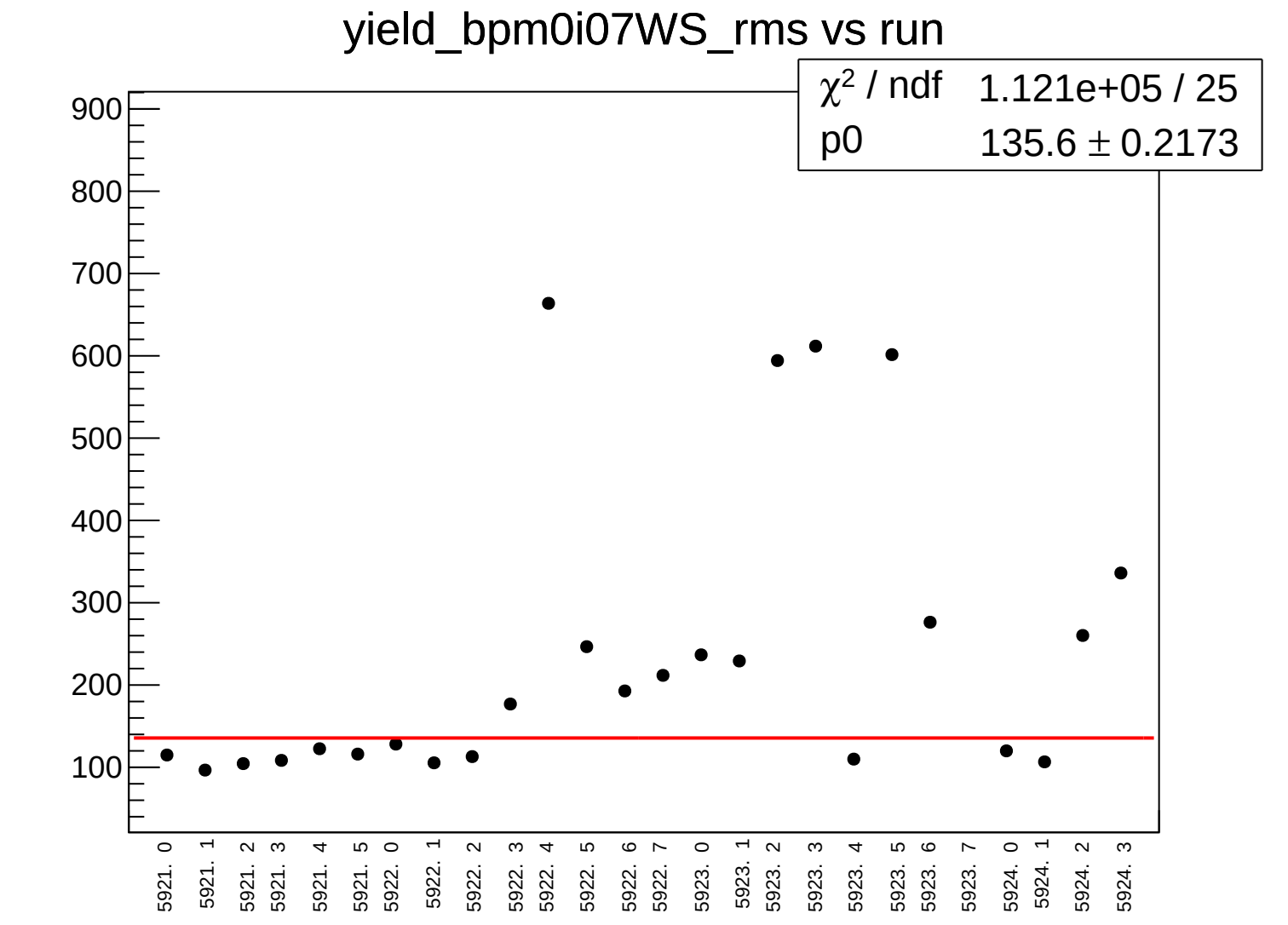

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 863.3 / 25
p0 1.271e+05 ± 0.2465
127.09
127.085
127.08
127.075
127.07
127.065
127.06
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −22.41
Std Dev 32.22
10
5
0
−5
−10

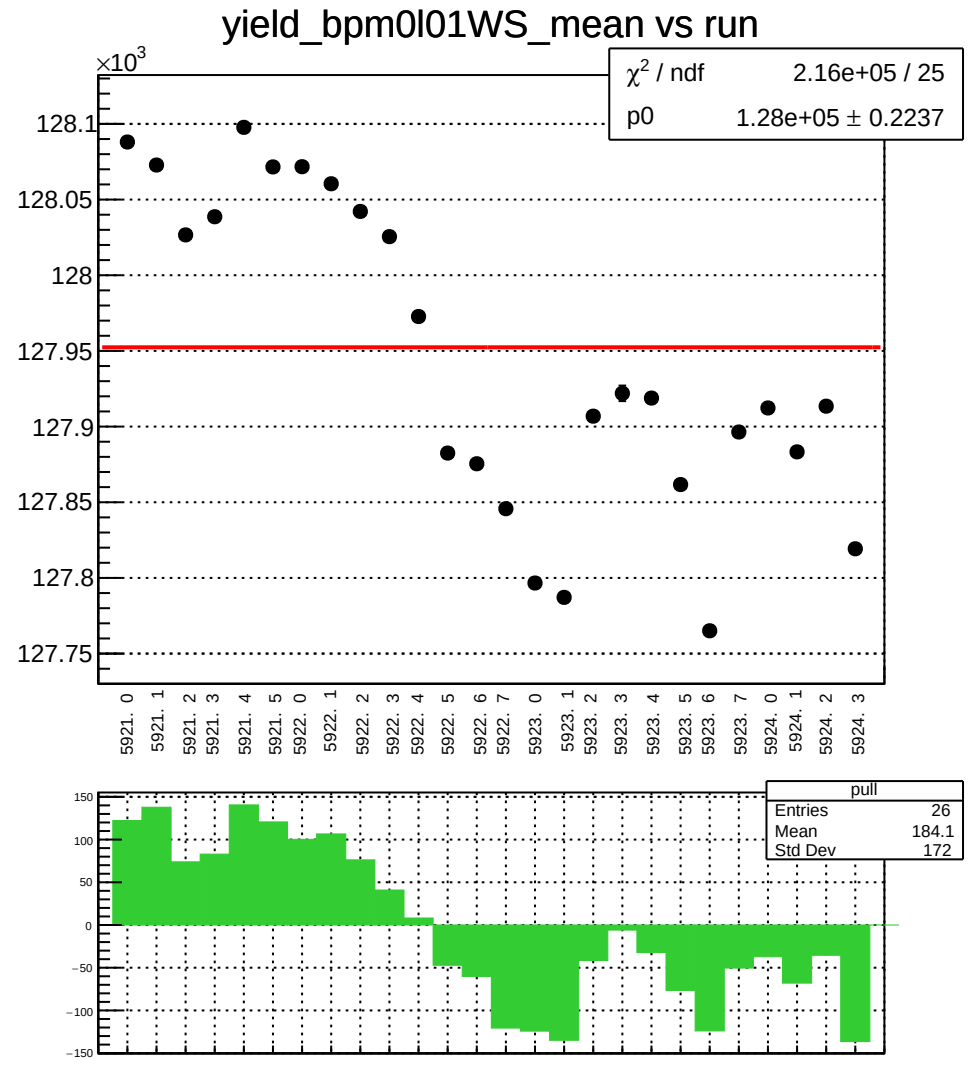

pull1D
Entries 26
Mean 1.426
Std Dev 3.504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

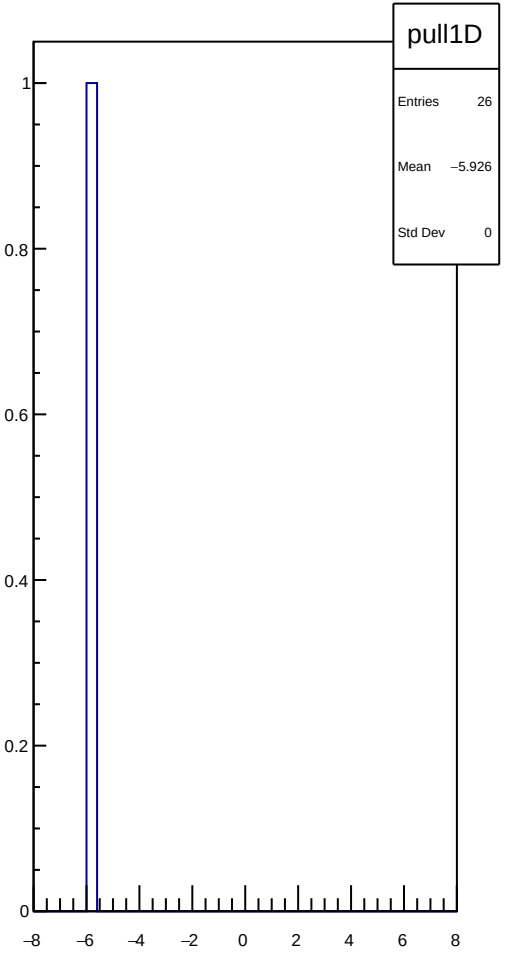

yield_bpm2i01WS_rms vs run
χ² / ndf 1.464e+04 / 25
p0 121.6 ± 0.1743
500
450
400
350
300
250
200
150
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

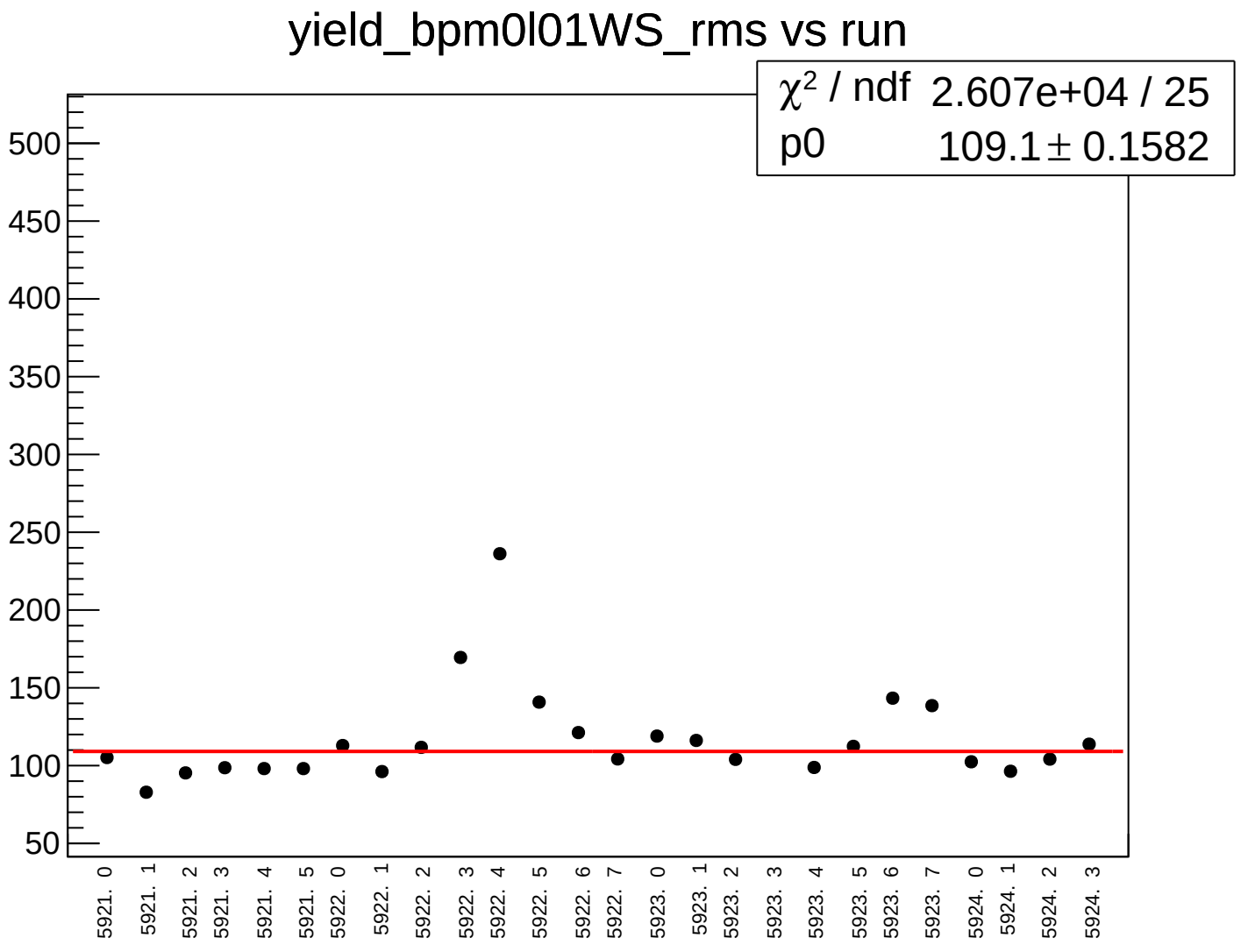

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.408e+06 / 25
p0 1.554e+05 ± 0.3073
155.5
155
154.5
154
153.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 24.58
Std Dev 12.73
200
0
−200
−400
−600
−800
−1000

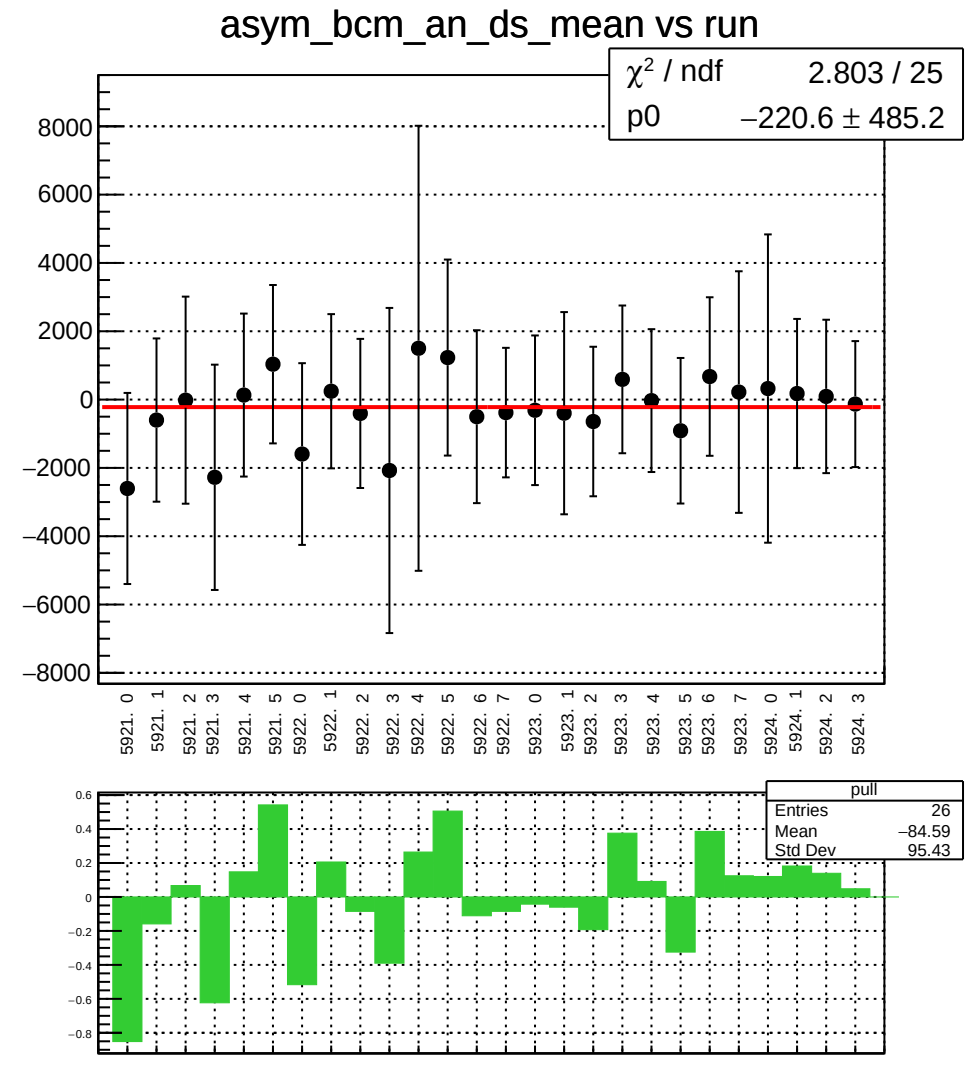

pull1D
Entries 26
Mean −7.613
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

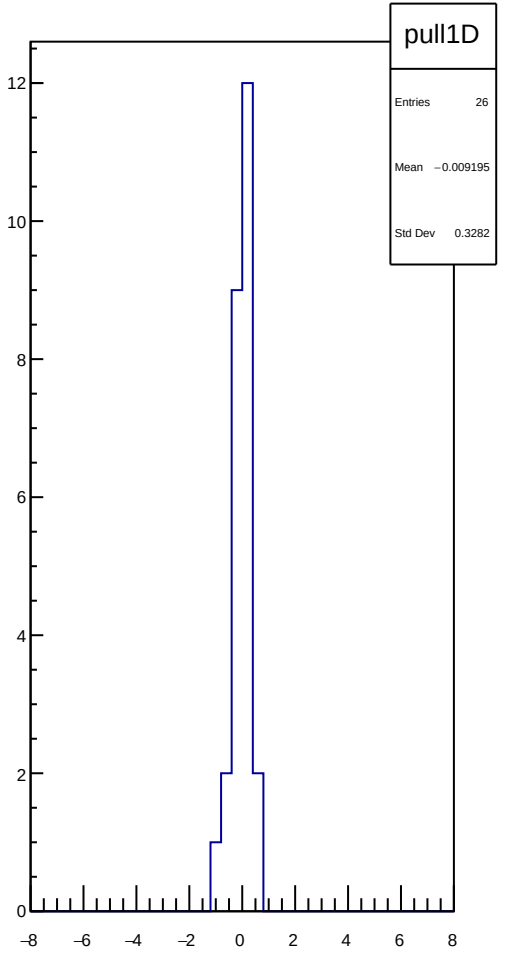

yield_bpm0i07WS_rms vs run
χ² / ndf 1.121e+05 / 25
p0 135.6 ± 0.2173
900
800
700
600
500
400
300
200
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

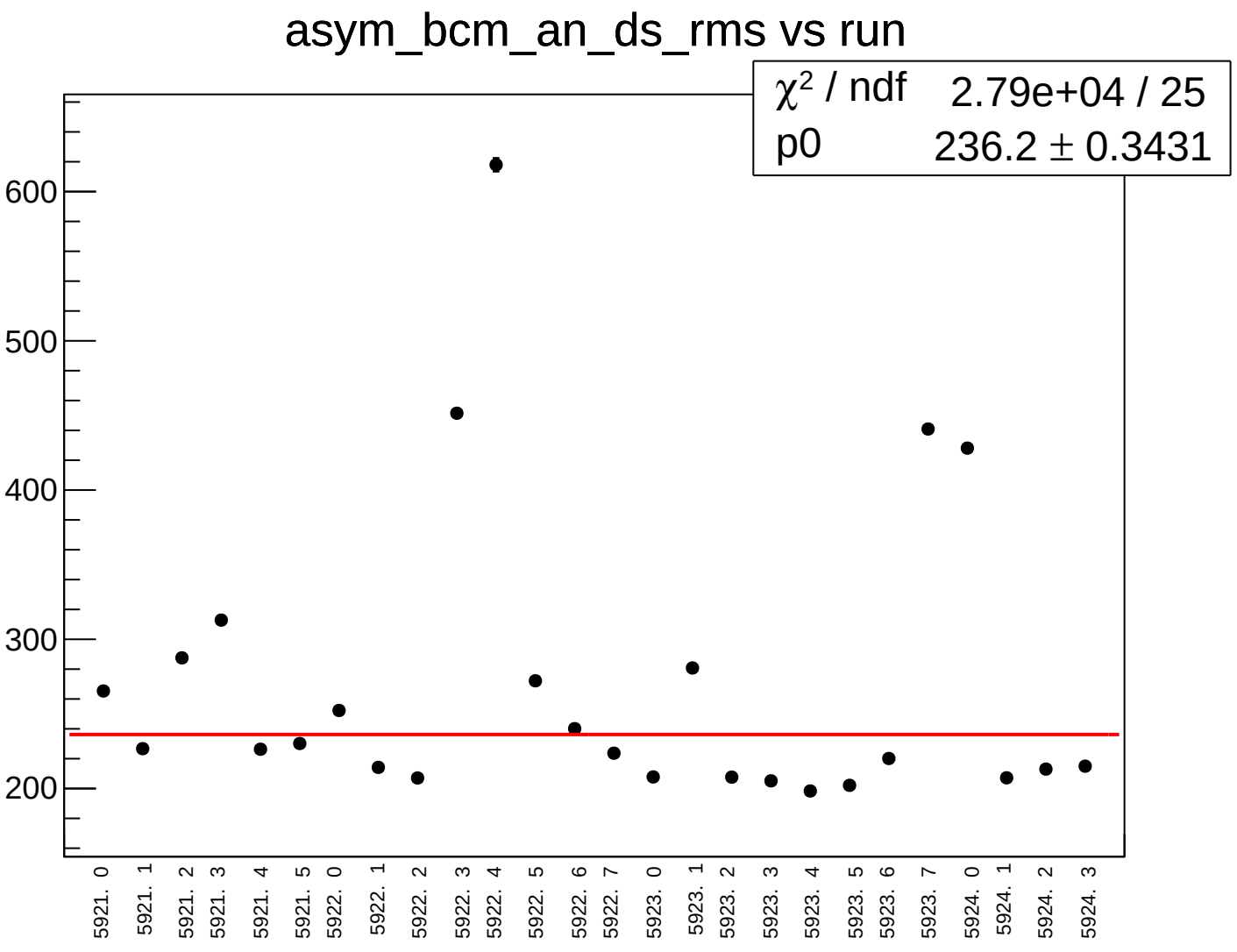

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.16e+05 / 25
p0 1.28e+05 ± 0.2237
128.1
128.05
128
127.95
127.9
127.85
127.8
127.75
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 184.1
Std Dev 172
150
100
50
0
−50
−100
−150

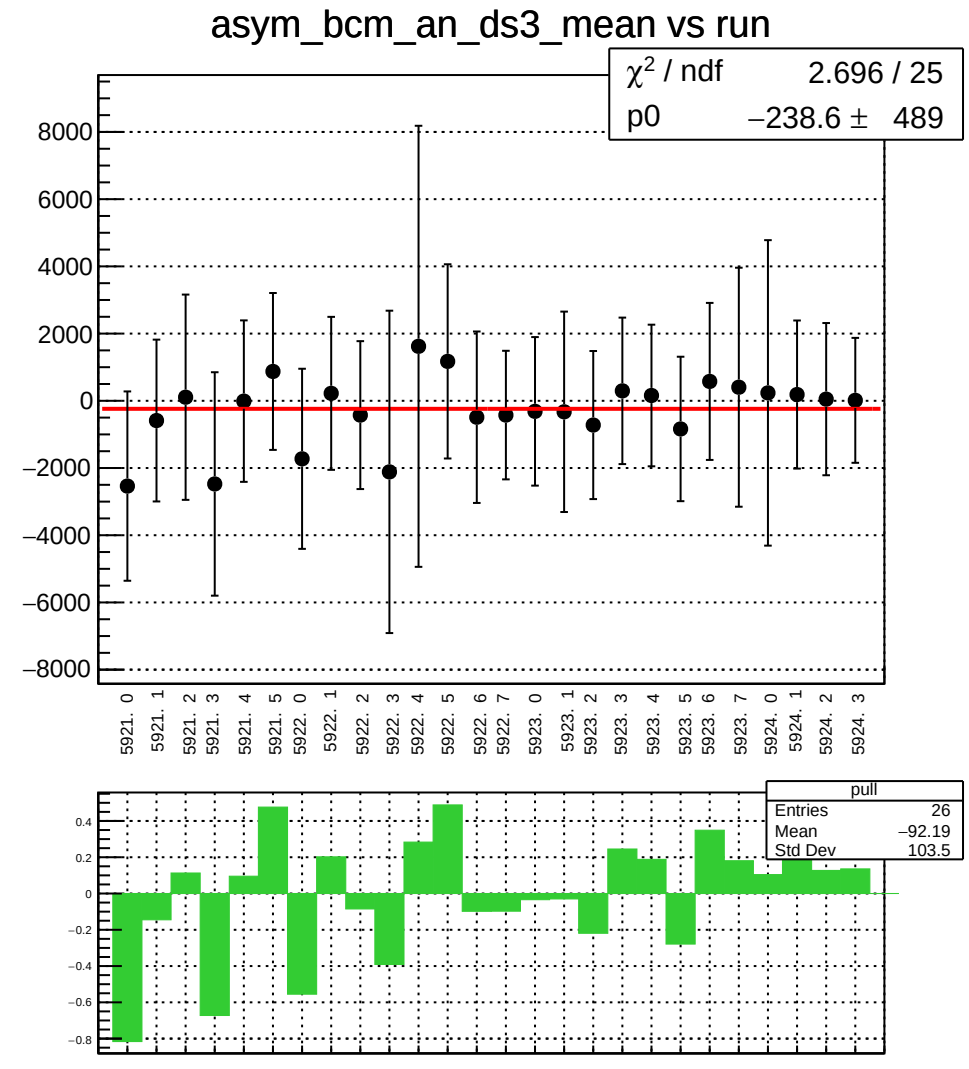

pull1D
Entries 26
Mean −5.926
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

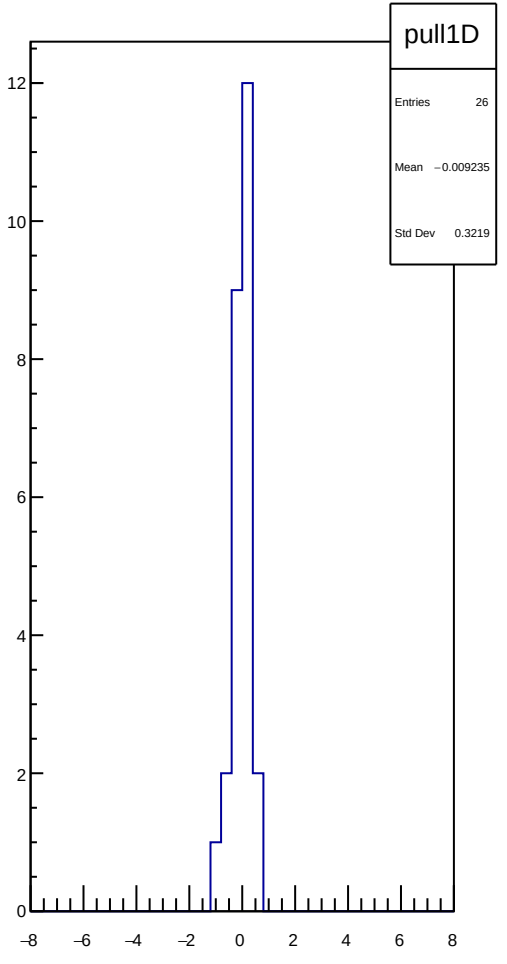

yield_bpm0l01WS_rms vs run
χ² / ndf 2.607e+04 / 25
p0 109.1 ± 0.1582
500
450
400
350
300
250
200
150
100
50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

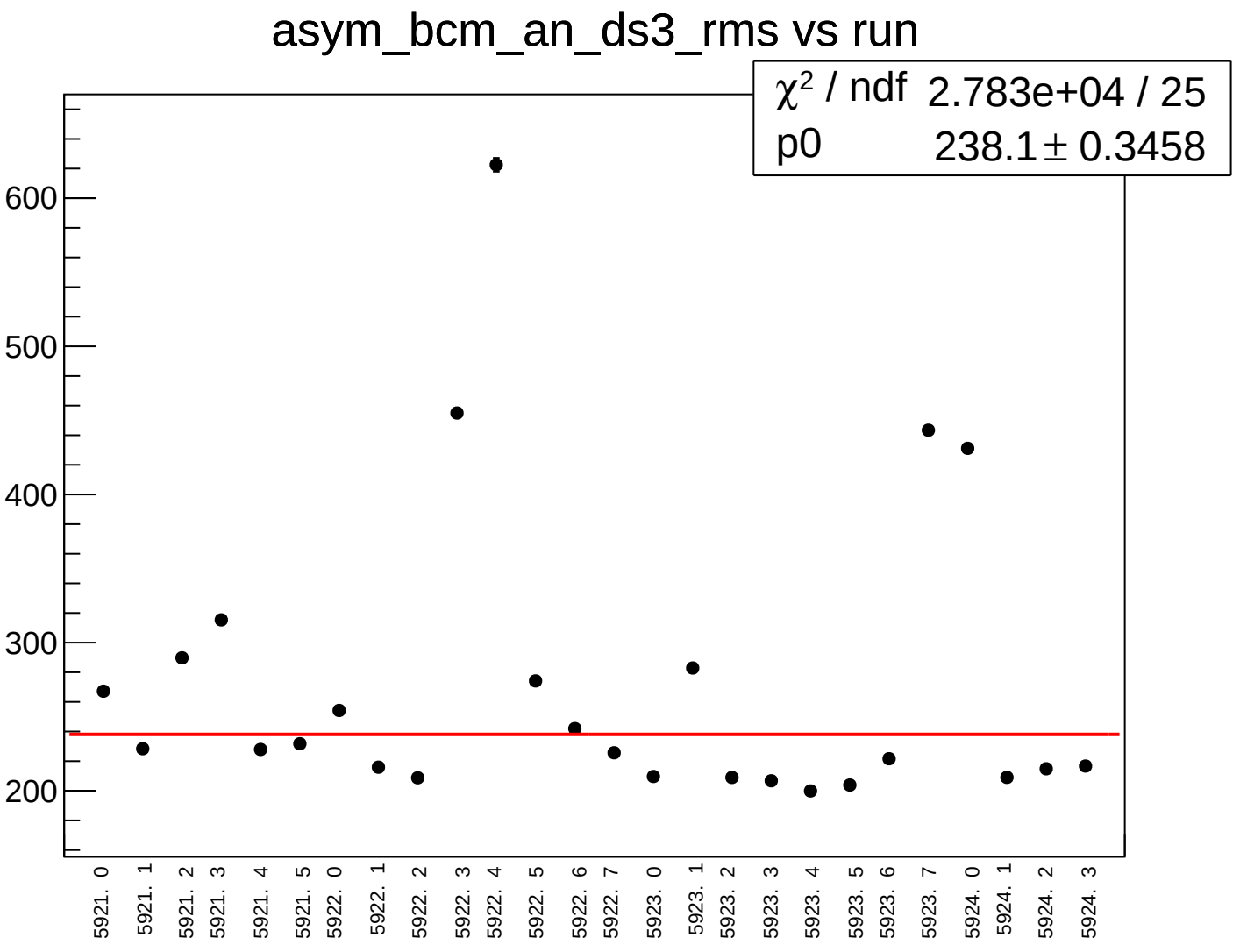

asym_bcm_an_ds_mean vs run
χ² / ndf 2.803 / 25
p0 −220.6 ± 485.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −84.59
Std Dev 95.43
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

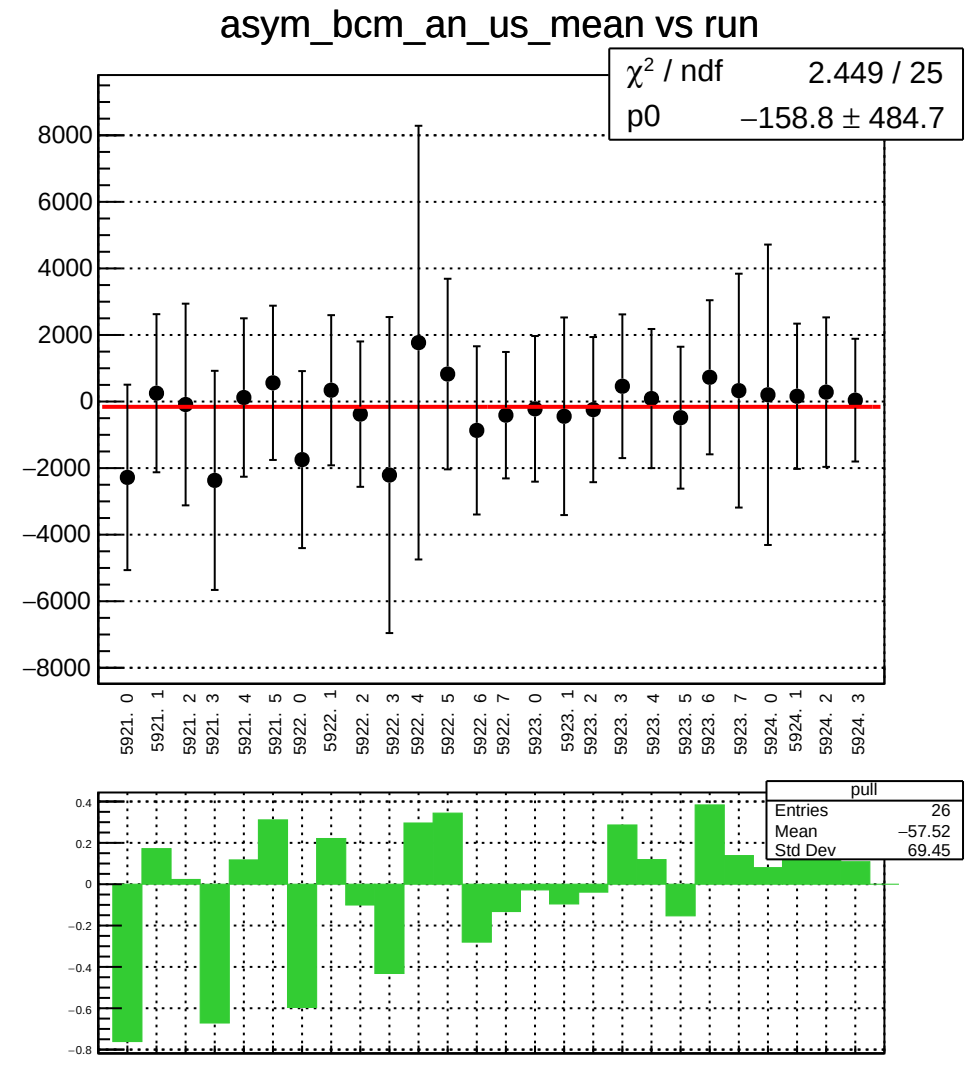

pull1D
Entries 26
Mean −0.009195
Std Dev 0.3282
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

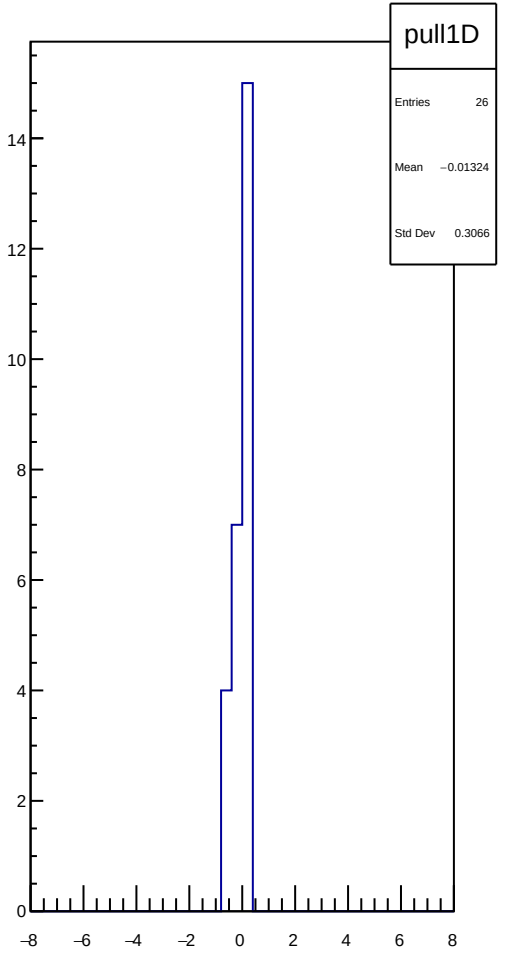

asym_bcm_an_ds_rms vs run
χ² / ndf 2.79e+04 / 25
p0 236.2 ± 0.3431
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

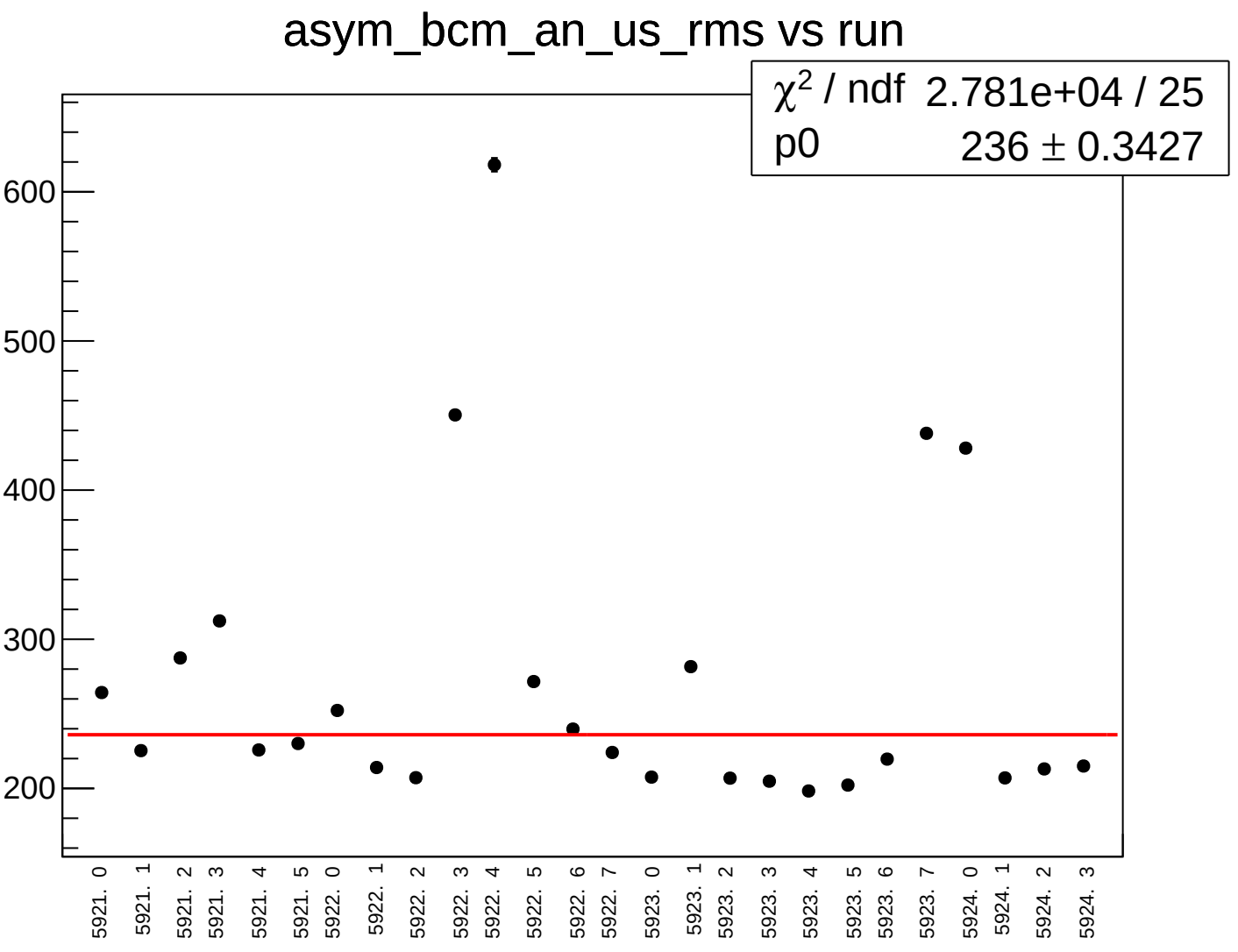

asym_bcm_an_ds3_mean vs run
χ² / ndf 2.696 / 25
p0 −238.6 ± 489
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −92.19
Std Dev 103.5
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

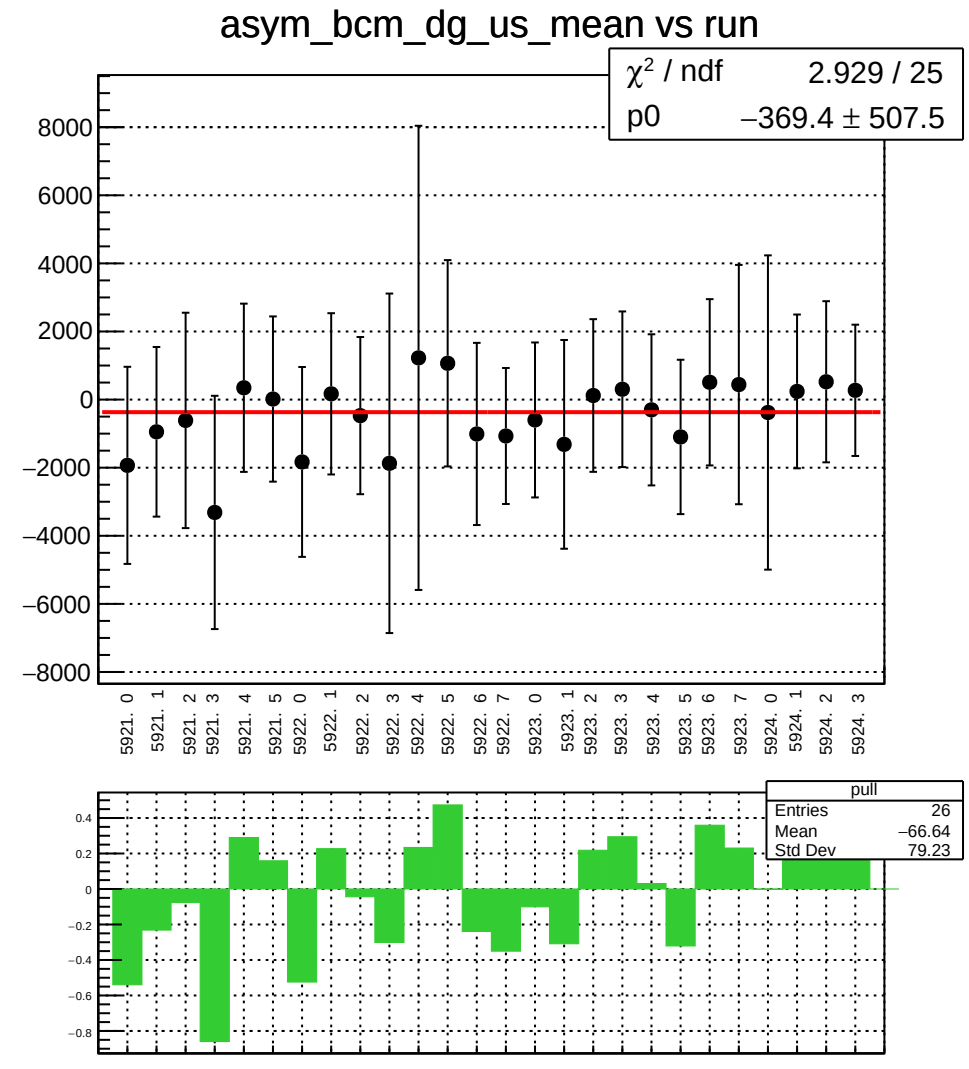

pull1D
Entries 26
Mean −0.009235
Std Dev 0.3219
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

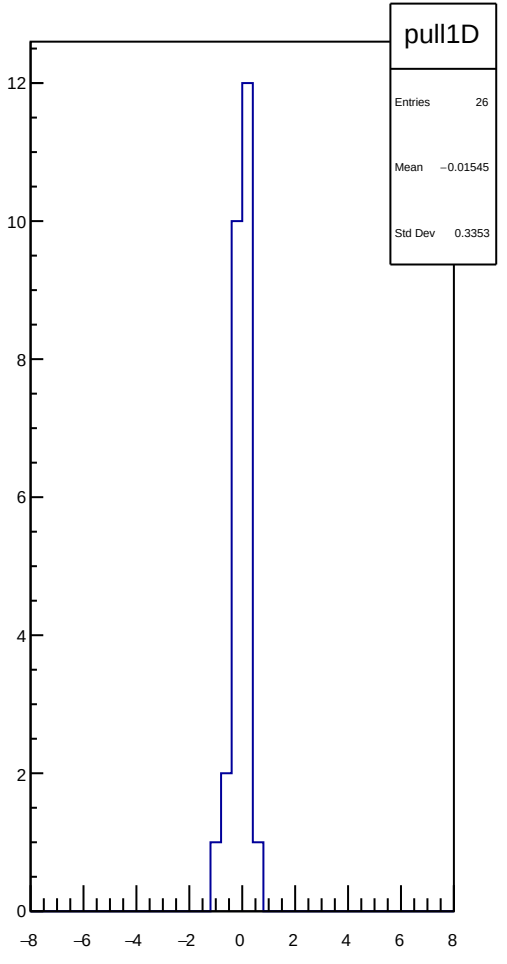

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.783e+04 / 25
p0 238.1 ± 0.3458
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

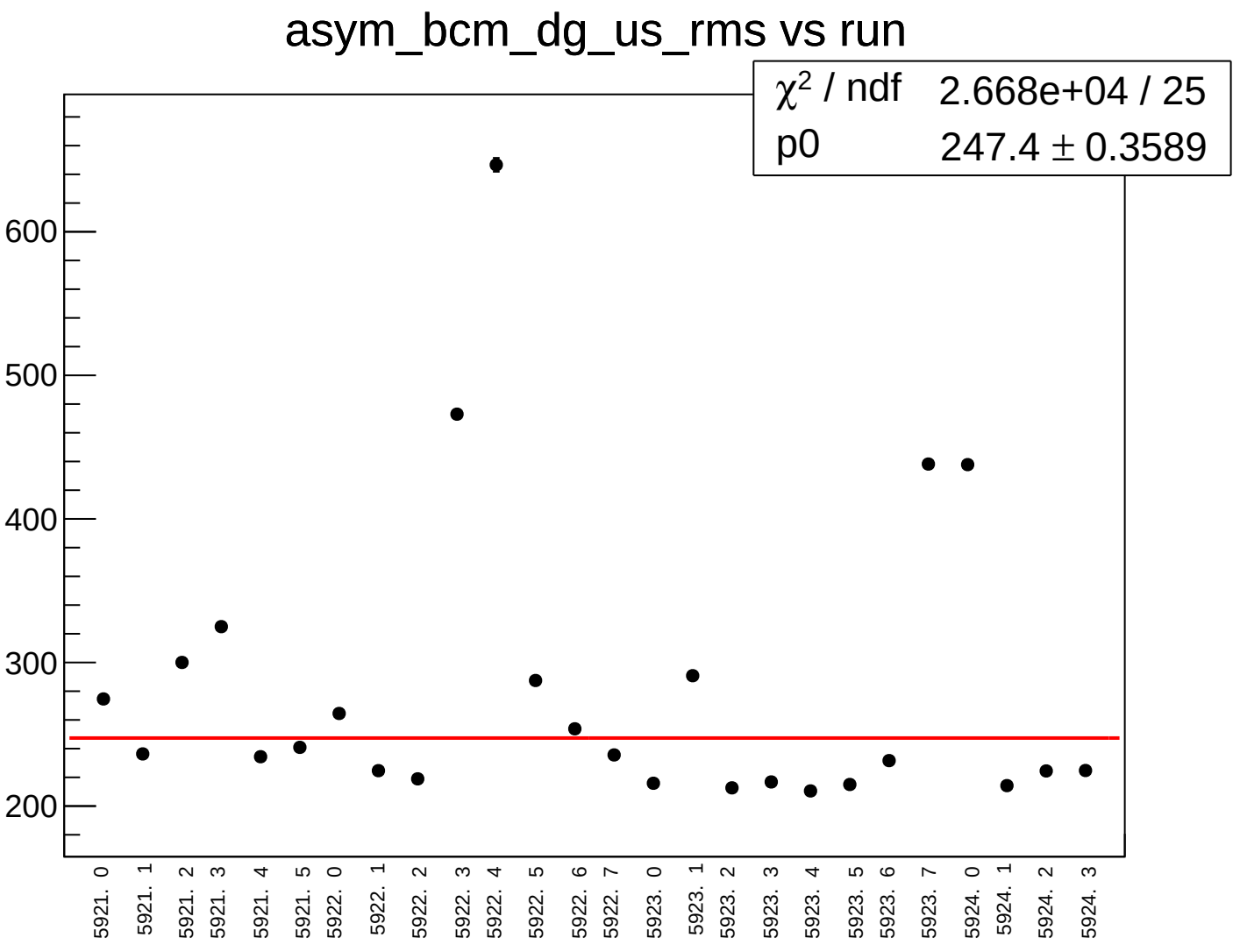

asym_bcm_an_us_mean vs run
χ² / ndf 2.449 / 25
p0 −158.8 ± 484.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −57.52
Std Dev 69.45
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

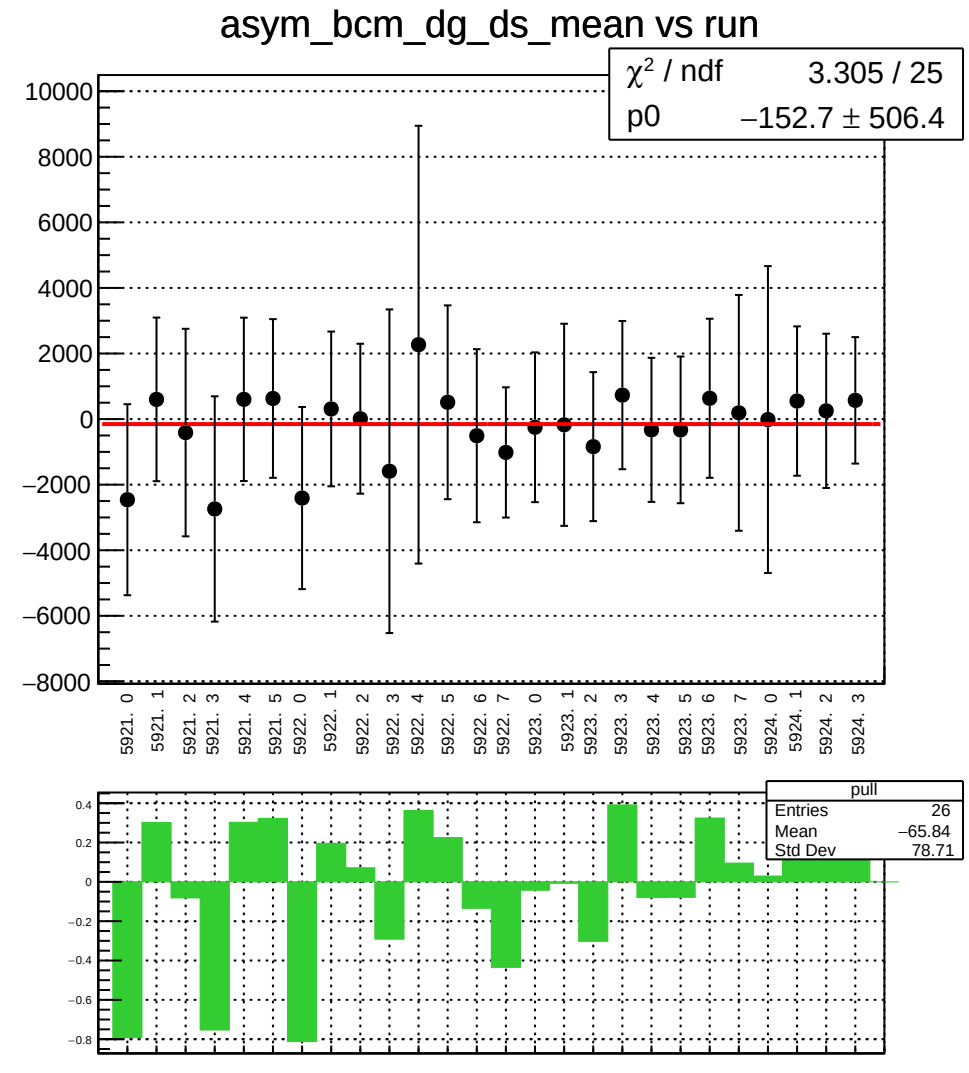

pull1D
Entries 26
Mean −0.01324
Std Dev 0.3066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

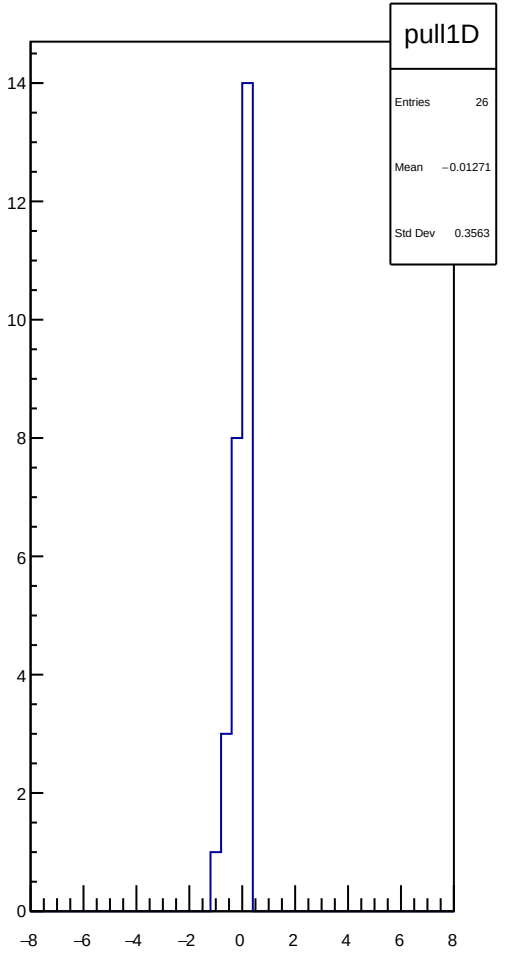

asym_bcm_an_us_rms vs run
$\chi^2$ / ndf 2.781e+04 / 25
p0 236 ± 0.3427
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

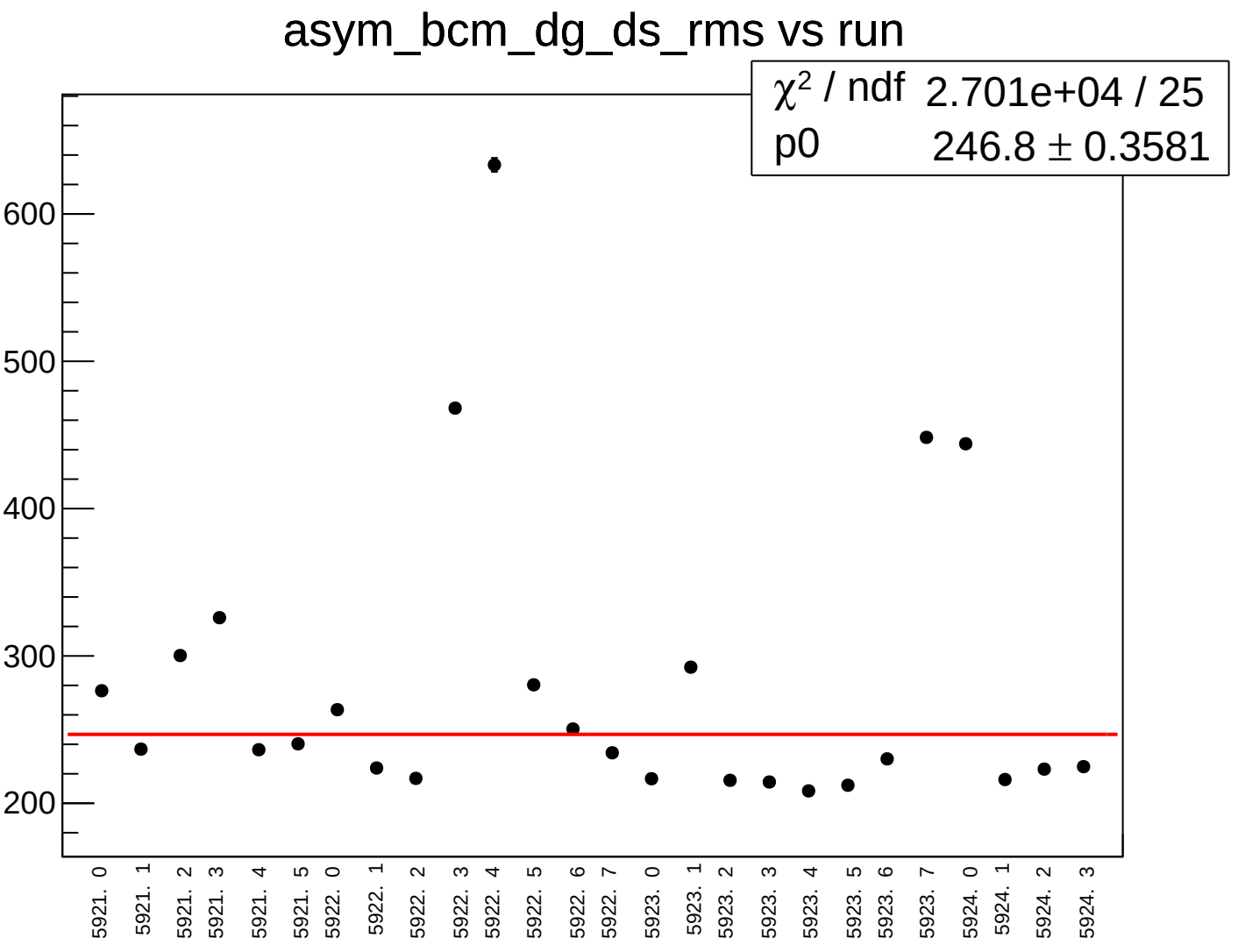

asym_bcm_dg_us_mean vs run
χ² / ndf 2.929 / 25
p0 −369.4 ± 507.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −66.64
Std Dev 79.23
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

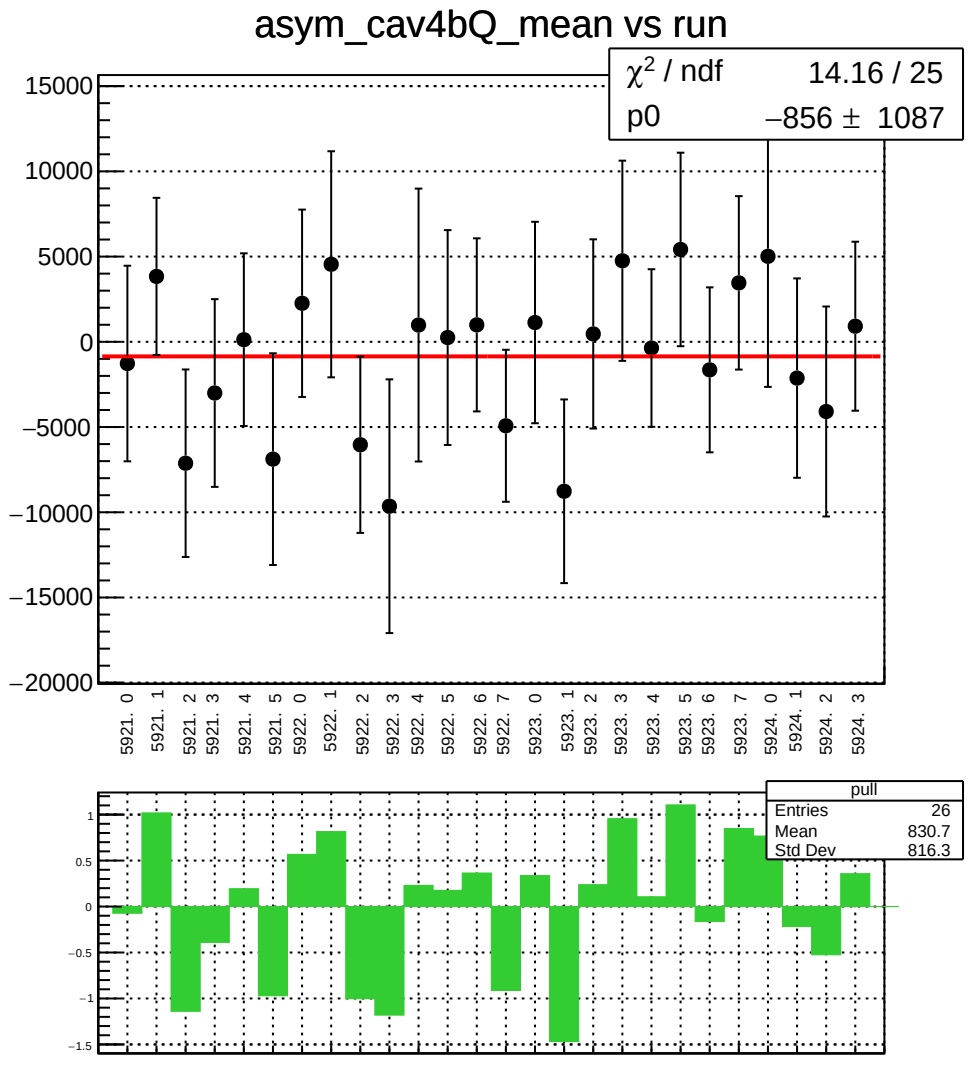

pull1D
Entries 26
Mean −0.01545
Std Dev 0.3353
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

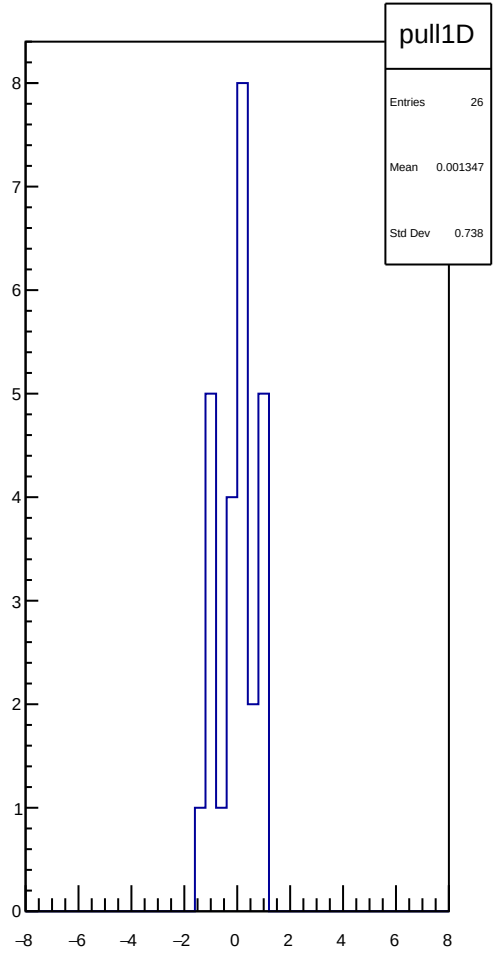

asym_bcm_dg_us_rms vs run
χ² / ndf 2.668e+04 / 25
p0 247.4 ± 0.3589
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

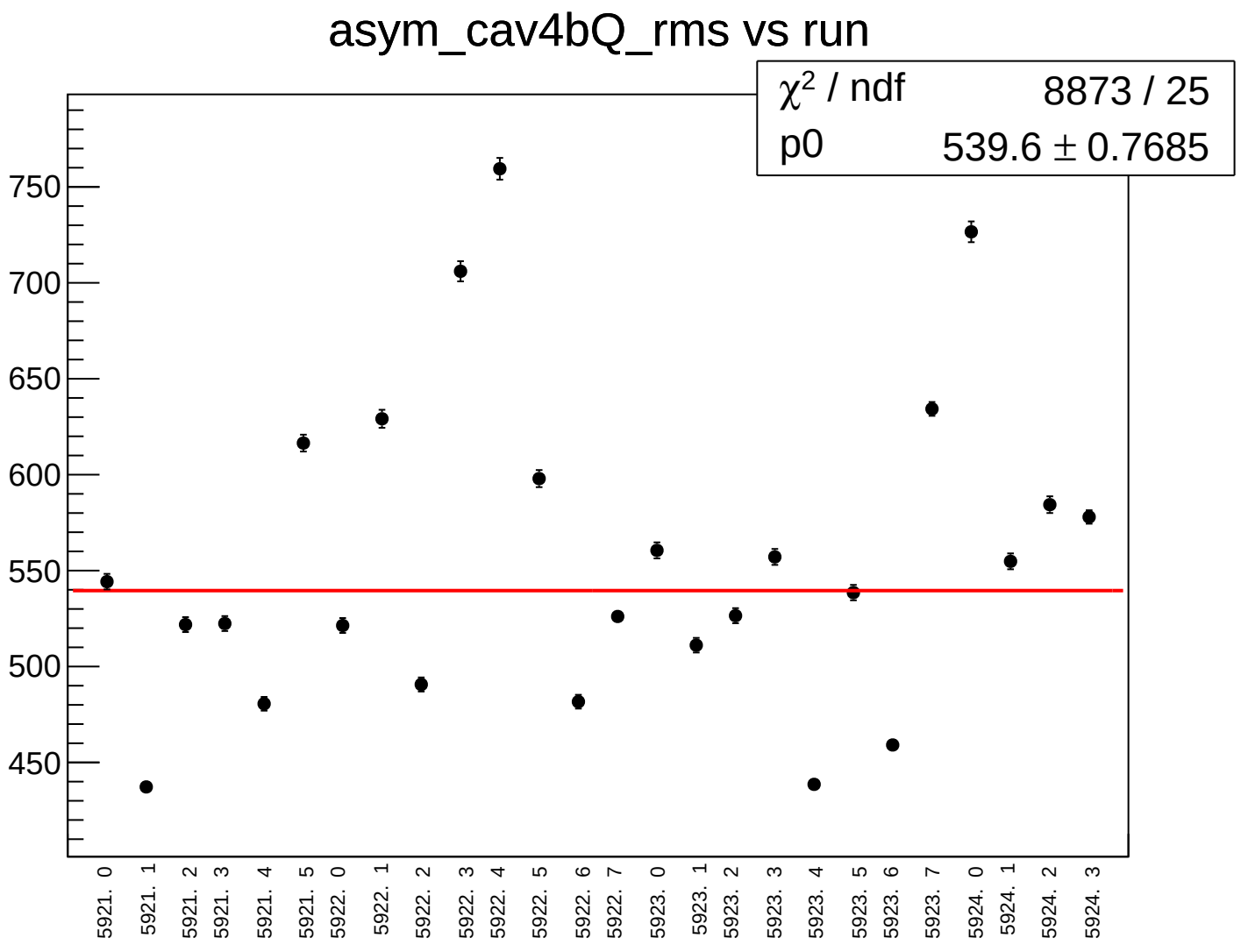

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.305 / 25
p0 −152.7 ± 506.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −65.84
Std Dev 78.71
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

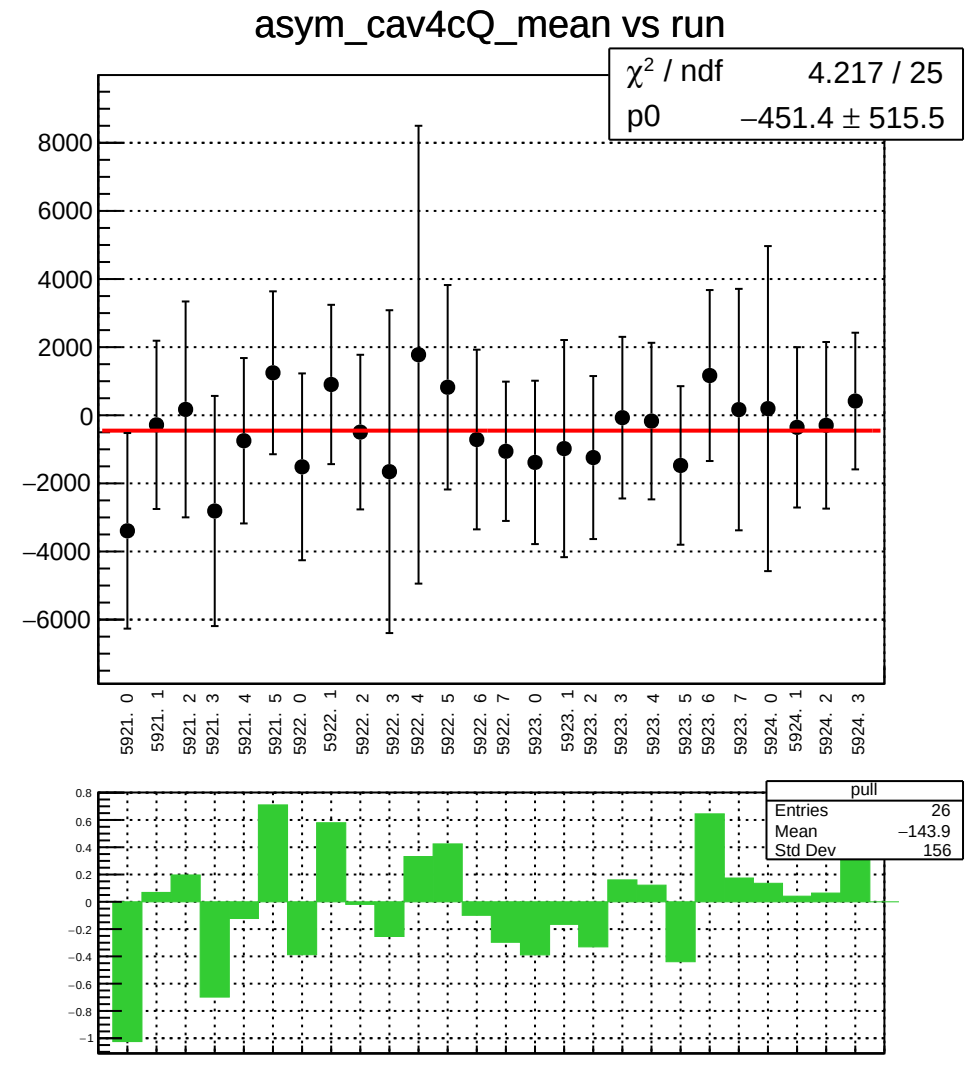

pull1D
Entries 26
Mean −0.01271
Std Dev 0.3563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

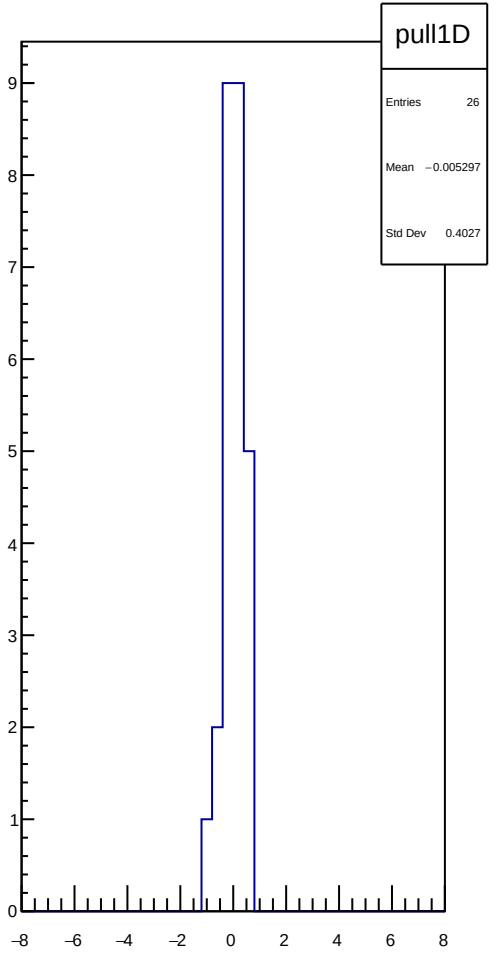

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.701e+04 / 25
p0 246.8 ± 0.3581
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

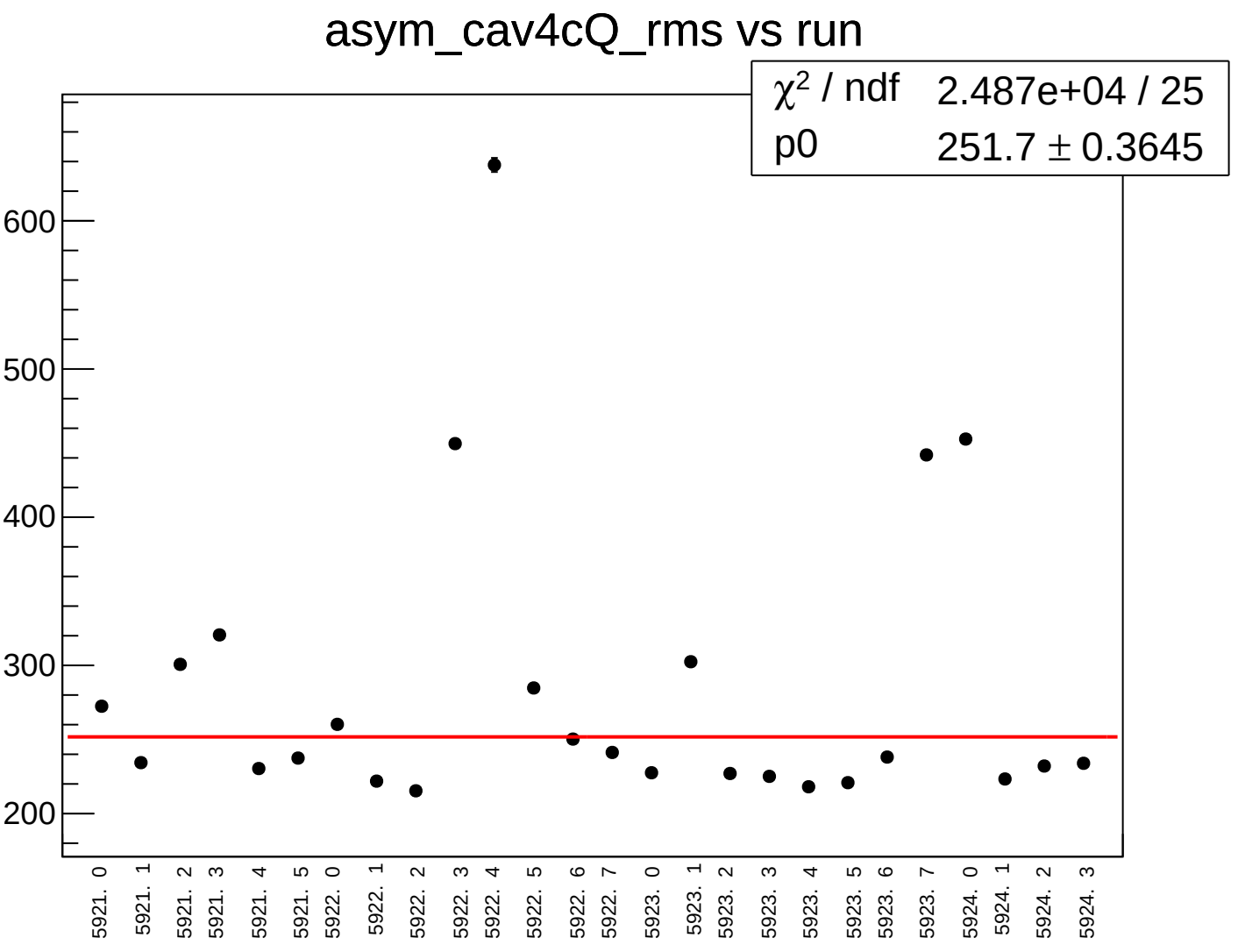

asym_cav4bQ_mean vs run
χ² / ndf 14.16 / 25
p0 −856 ± 1087
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 830.7
Std Dev 816.3
1
0.5
0
−0.5
−1
−1.5

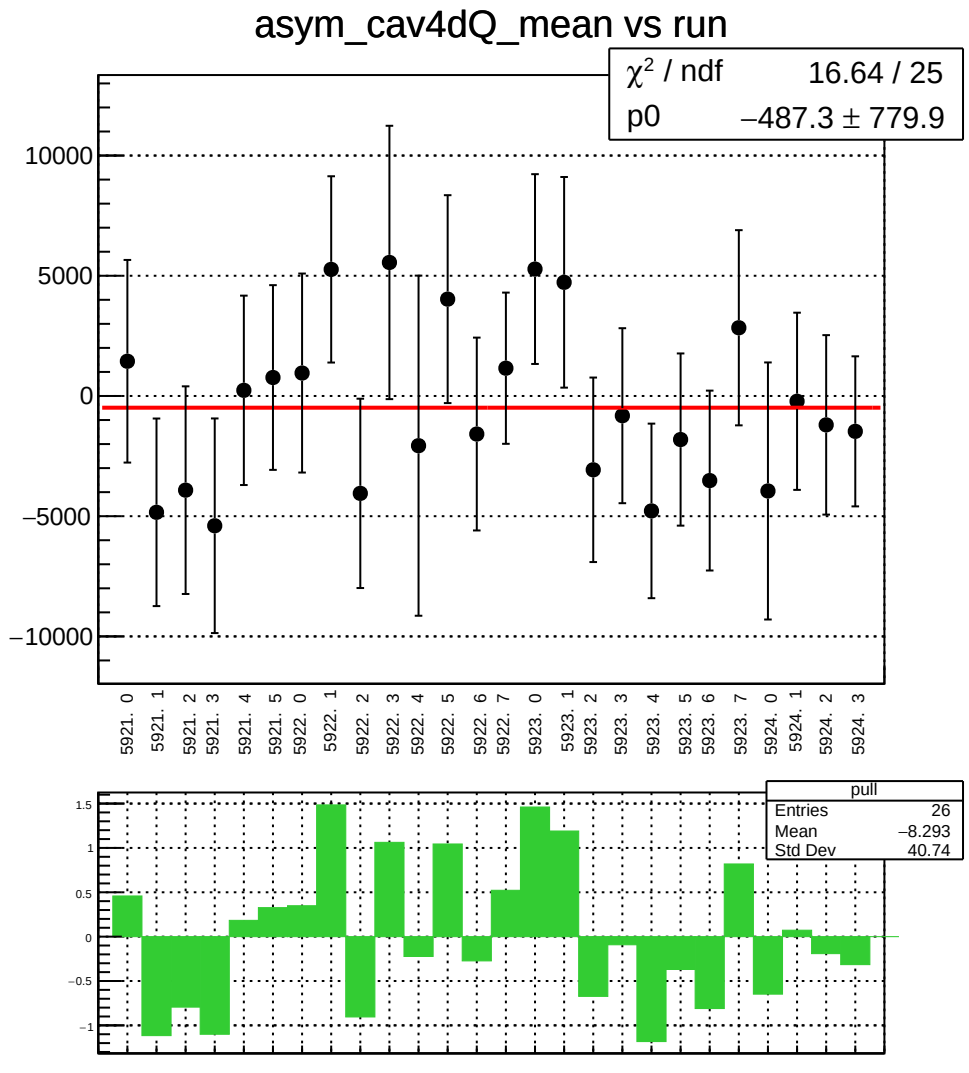

pull1D
Entries 26
Mean 0.001347
Std Dev 0.738
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

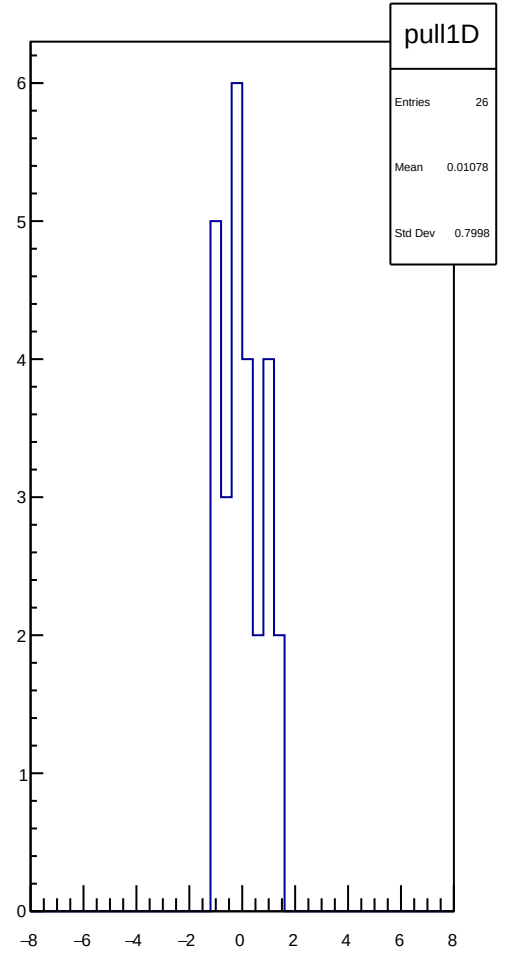

asym_cav4bQ_rms vs run
χ² / ndf 8873 / 25
p0 539.6 ± 0.7685
750
700
650
600
550
500
450
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

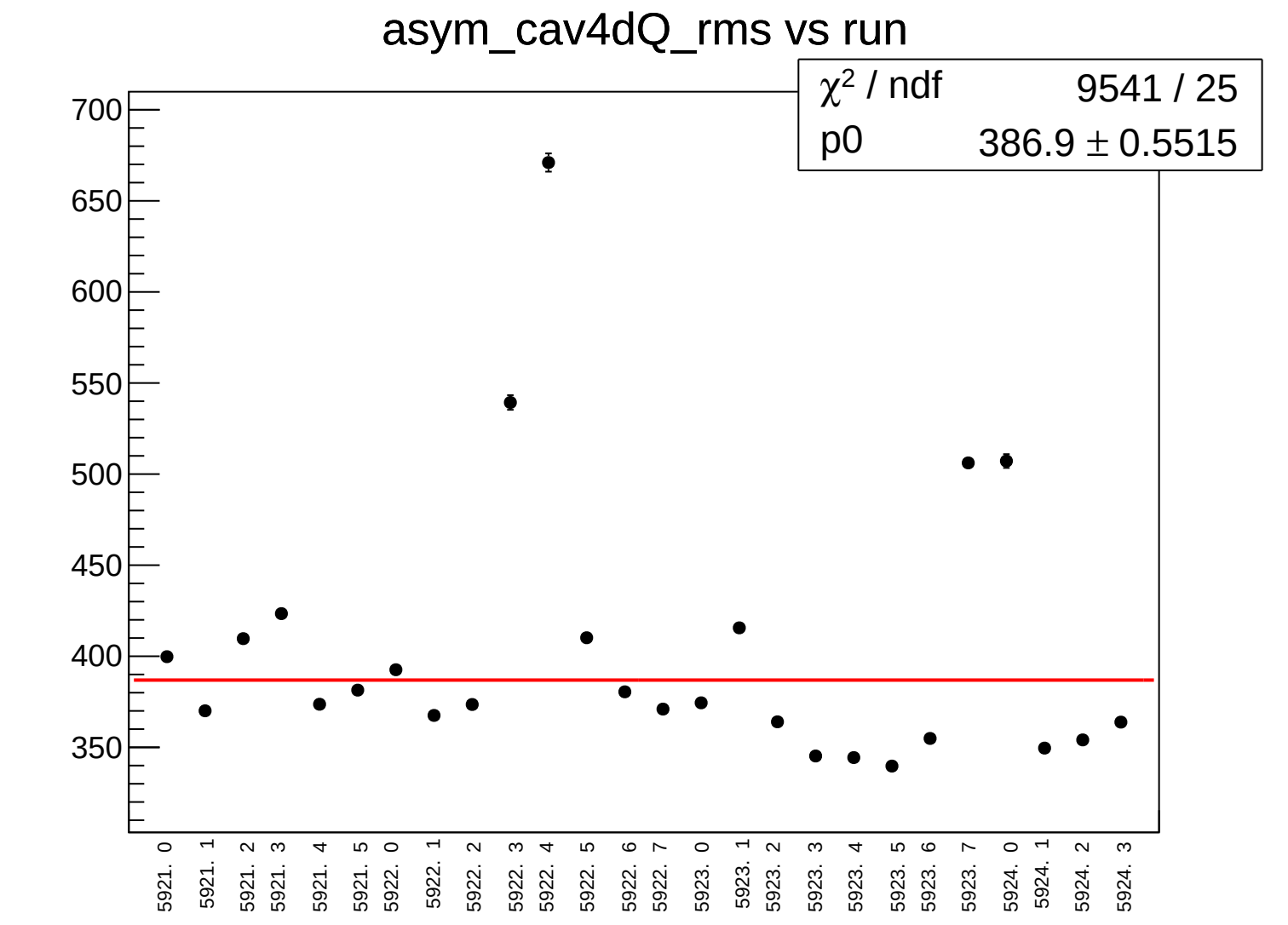

asym_cav4cQ_mean vs run
χ² / ndf 4.217 / 25
p0 −451.4 ± 515.5
8000
6000
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −143.9
Std Dev 156
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

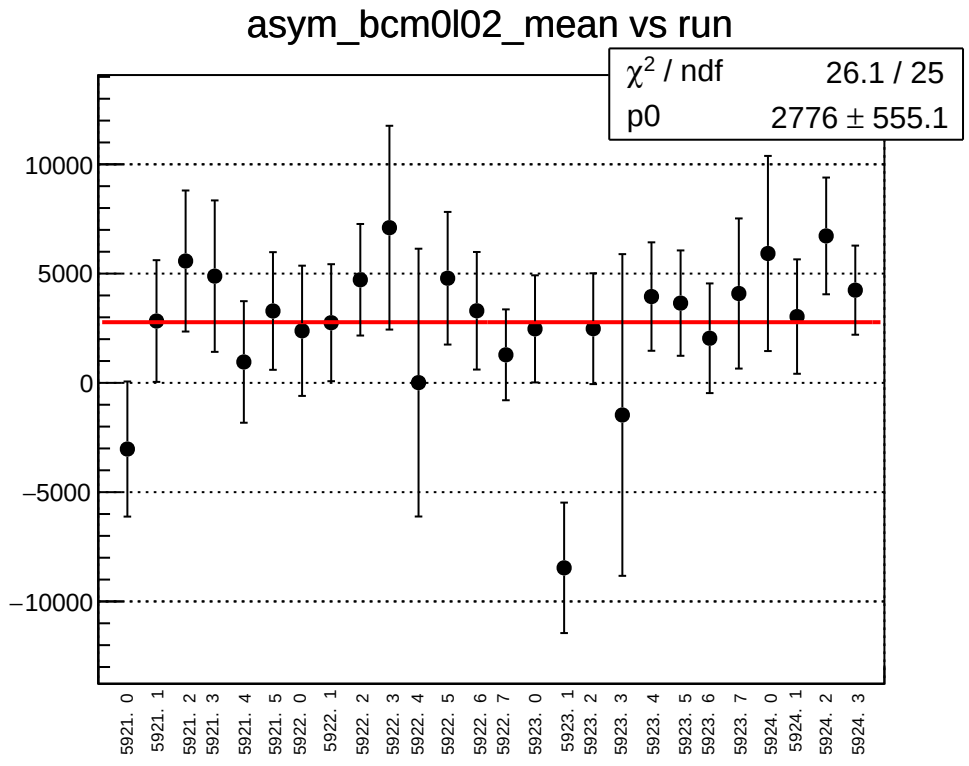

pull1D
Entries 26
Mean −0.005297
Std Dev 0.4027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

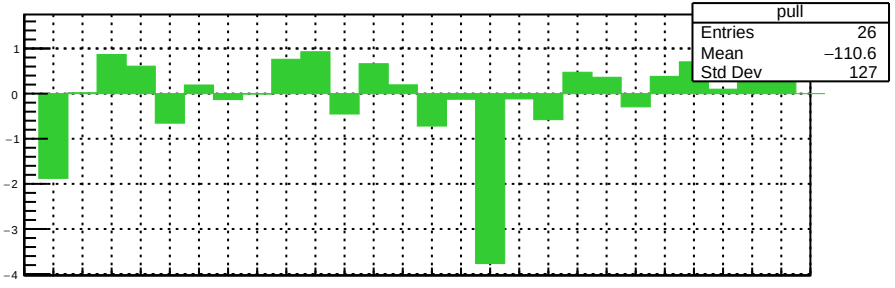

asym_cav4cQ_rms vs run
χ² / ndf 2.487e+04 / 25
p0 251.7 ± 0.3645
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

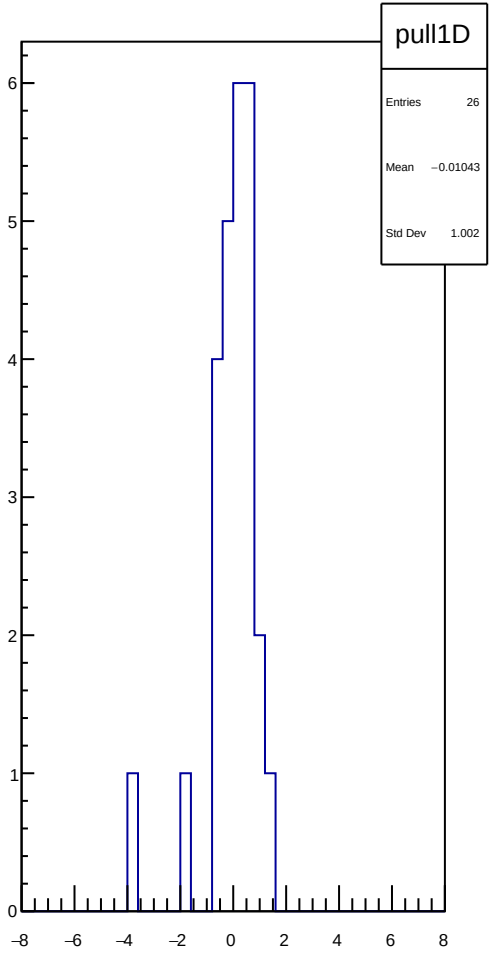

asym_cav4dQ_mean vs run
χ² / ndf 16.64 / 25
p0 −487.3 ± 779.9
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −8.293
Std Dev 40.74
1.5
1
0.5
0
−0.5
−1

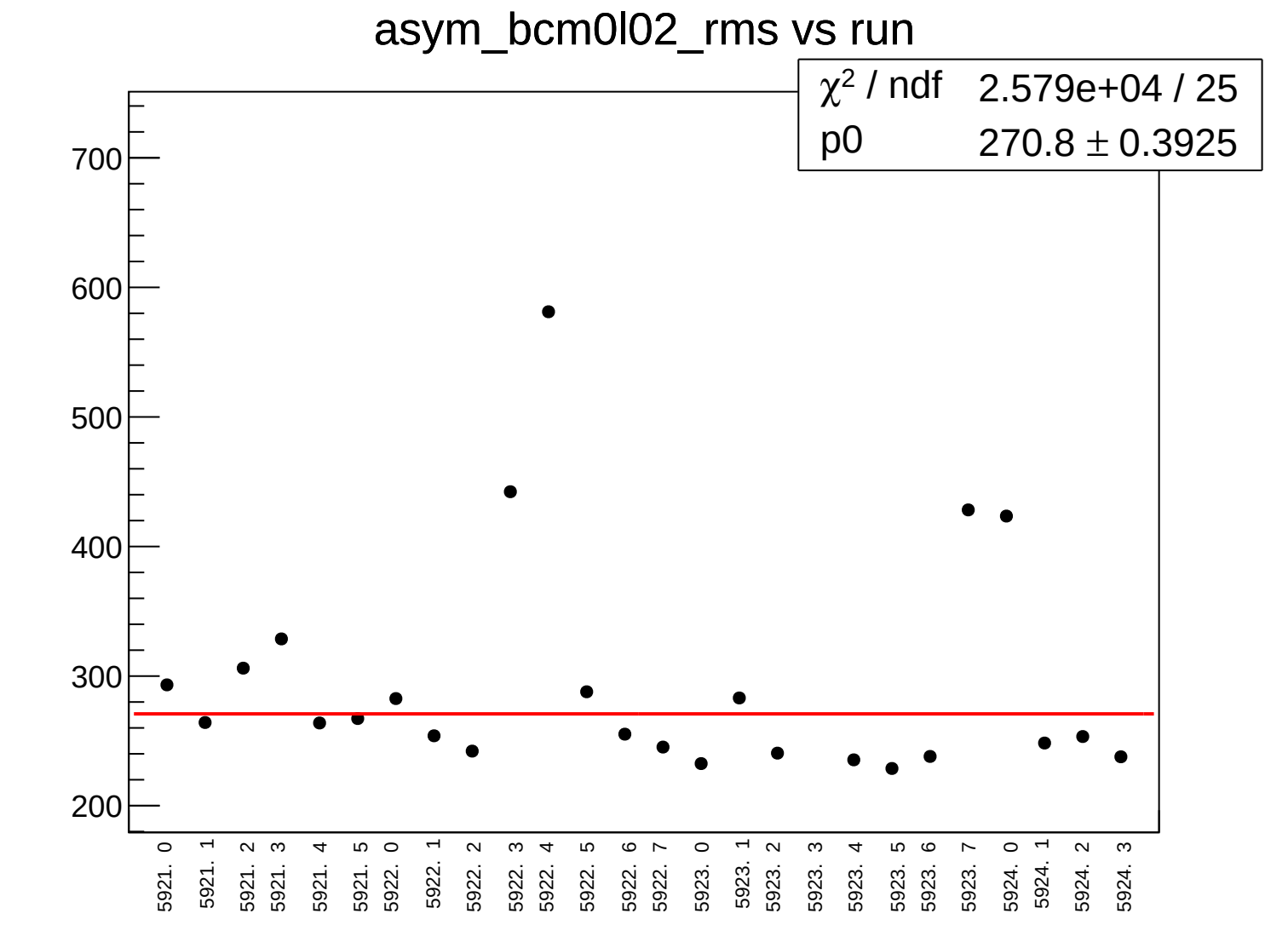

pull1D
Entries 26
Mean 0.01078
Std Dev 0.7998
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

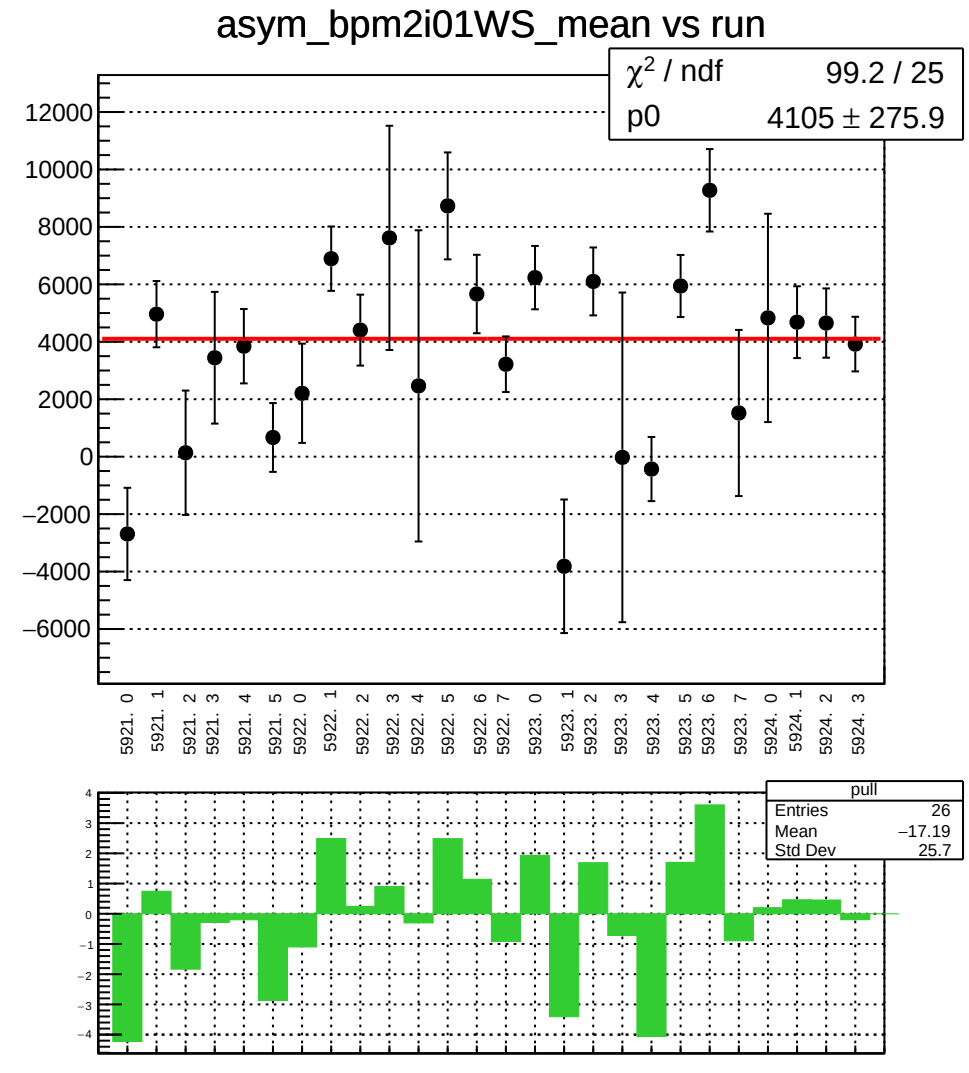

asym_cav4dQ_rms vs run
χ² / ndf 9541 / 25
p0 386.9 ± 0.5515
700
650
600
550
500
450
400
350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

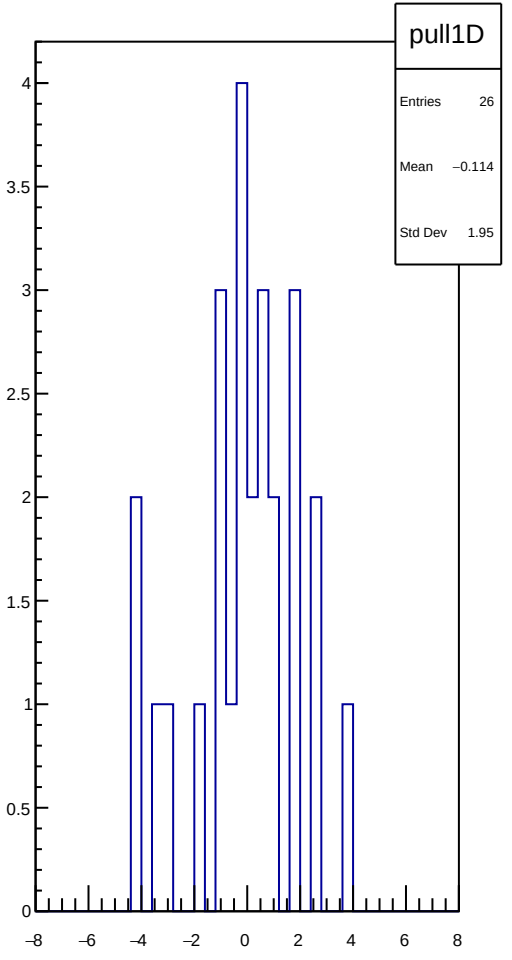

asym_bcm0l02_mean vs run
χ² / ndf 26.1 / 25
p0 2776 ± 555.1
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

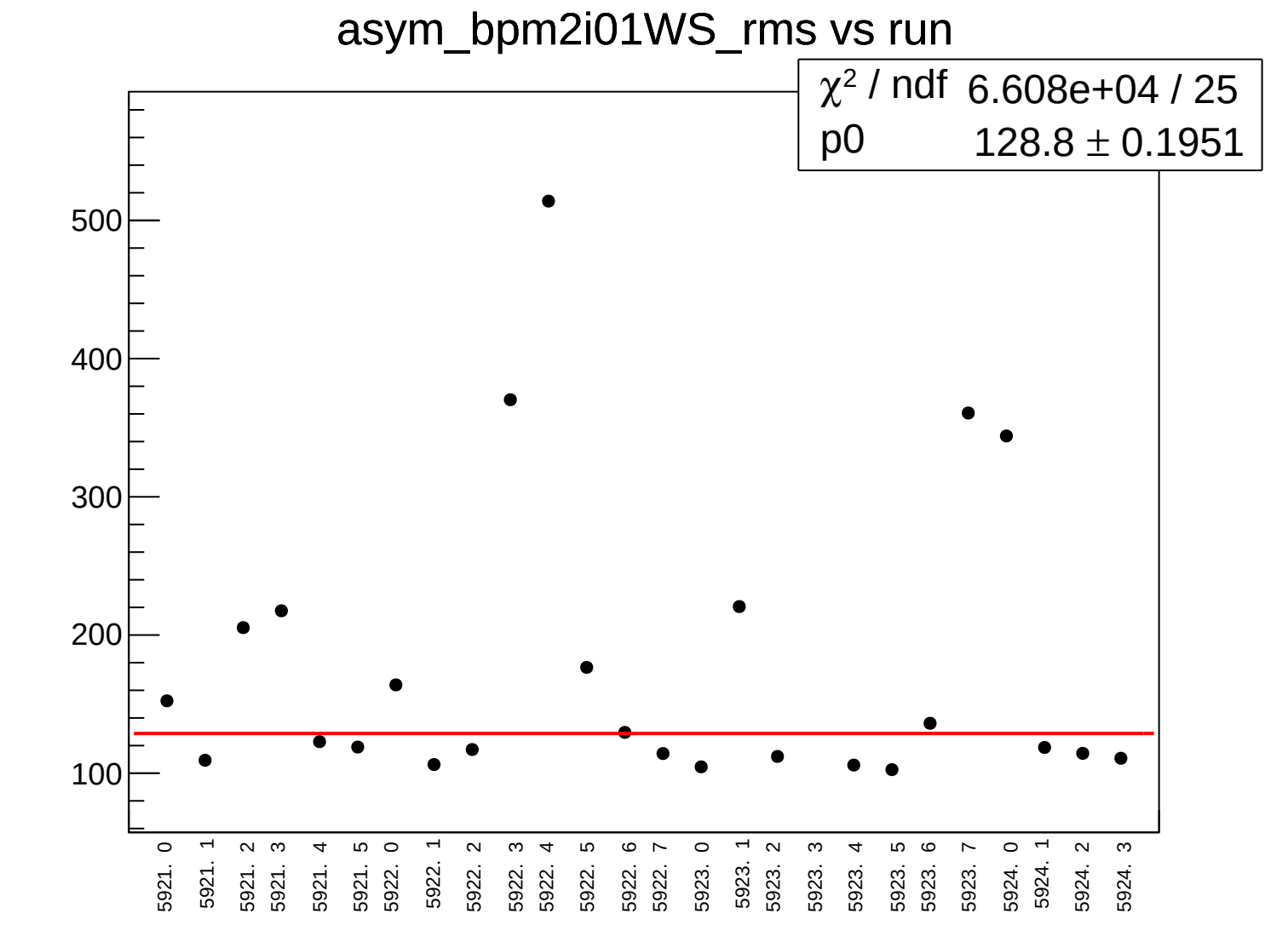

pull
Entries 26
Mean −110.6
Std Dev 127
1
0
−1
−2
−3
−4

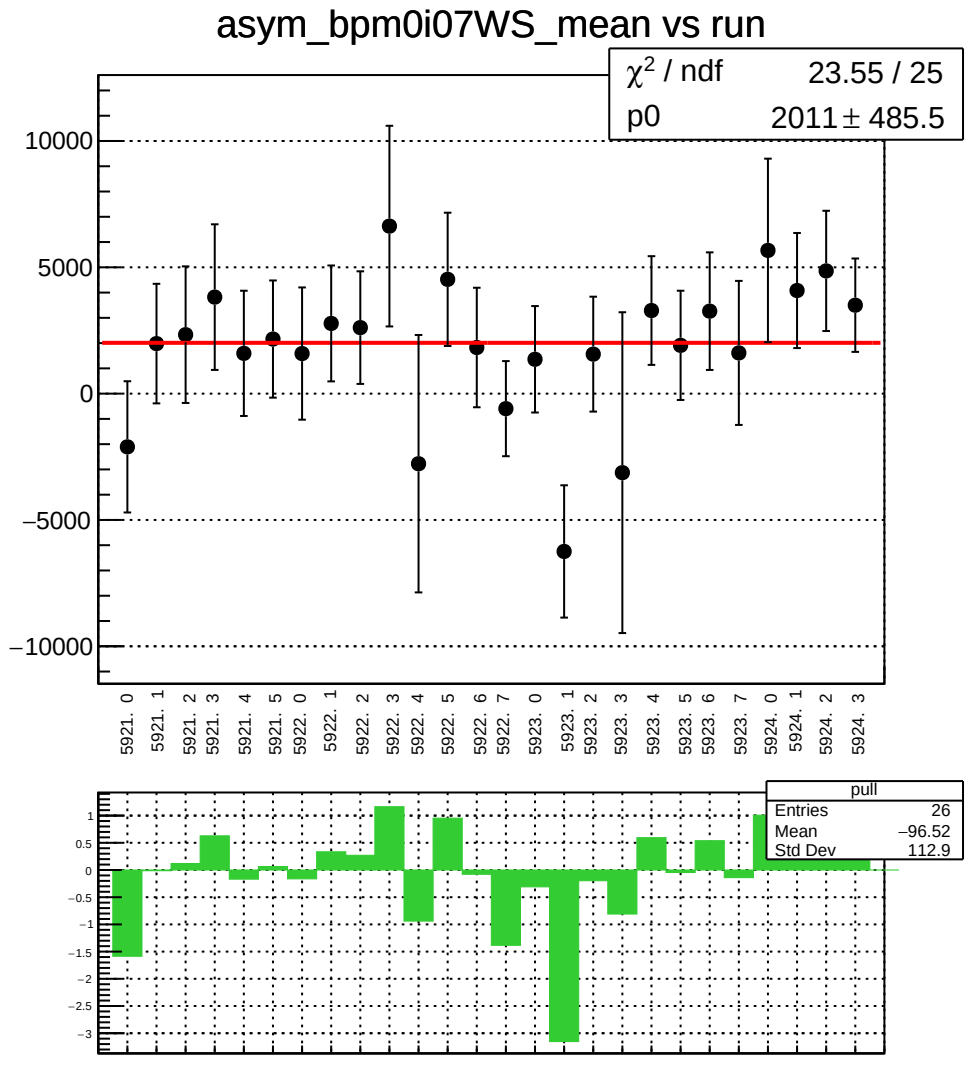

pull1D
Entries 26
Mean −0.01043
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

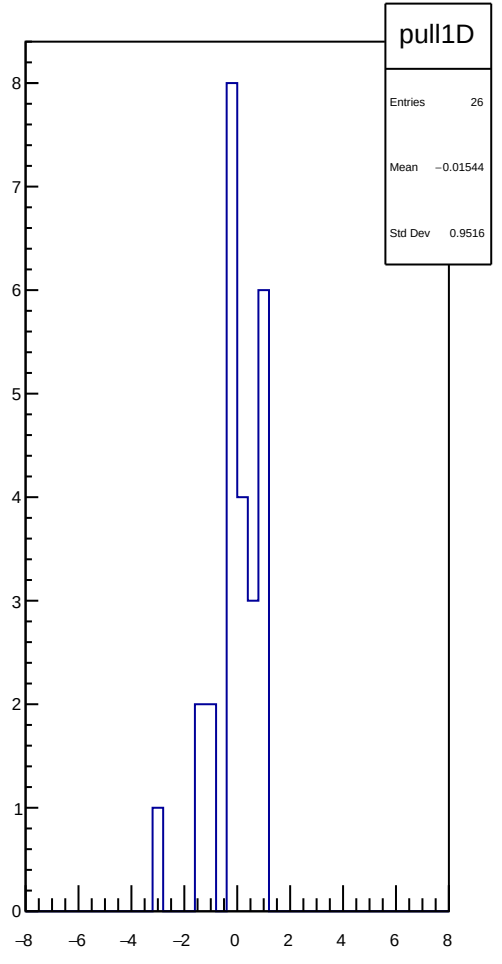

asym_bcm0l02_rms vs run
χ² / ndf 2.579e+04 / 25
p0 270.8 ± 0.3925
700
600
500
400
300
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

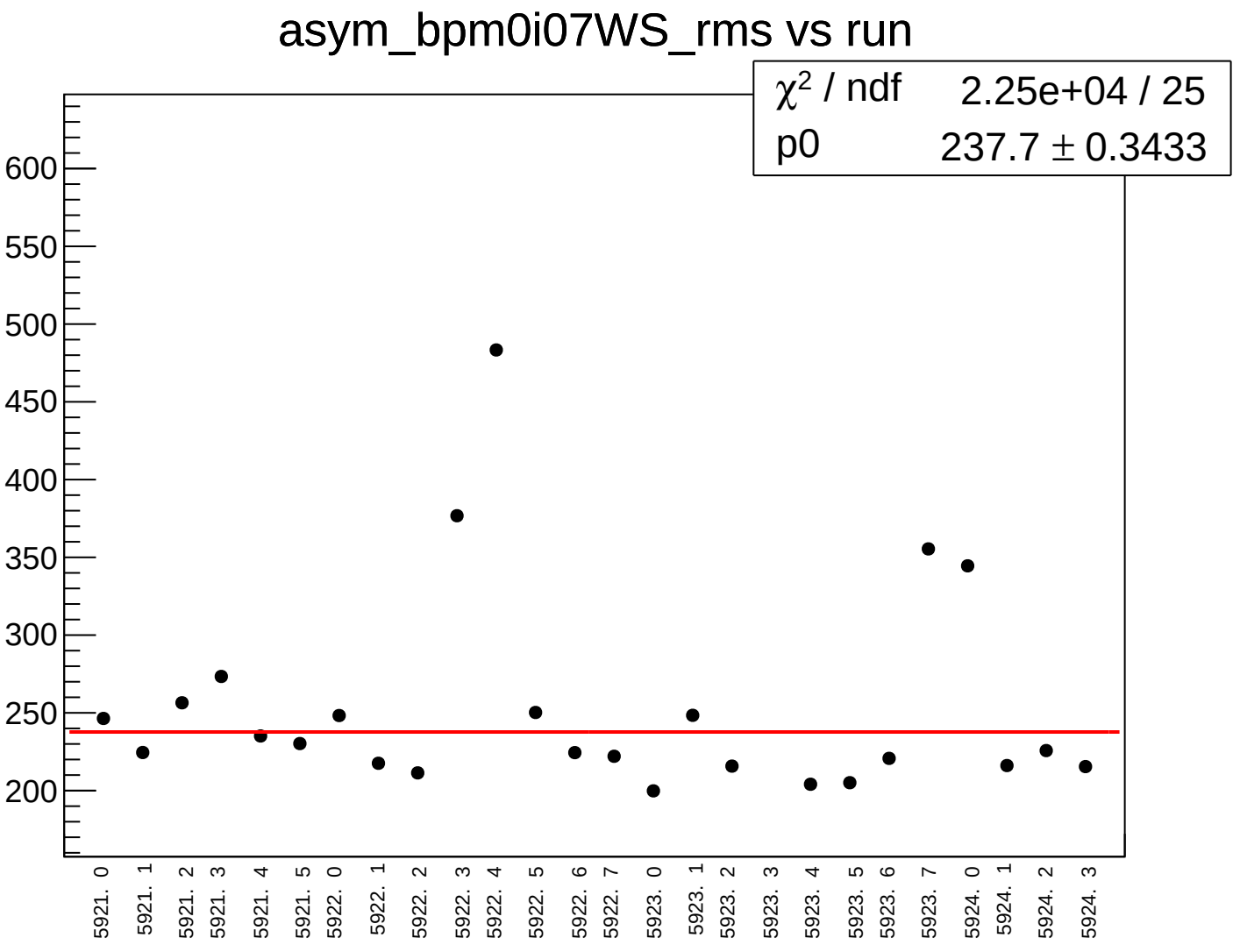

asym_bpm2i01WS_mean vs run
χ² / ndf 99.2 / 25
p0 4105 ± 275.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −17.19
Std Dev 25.7

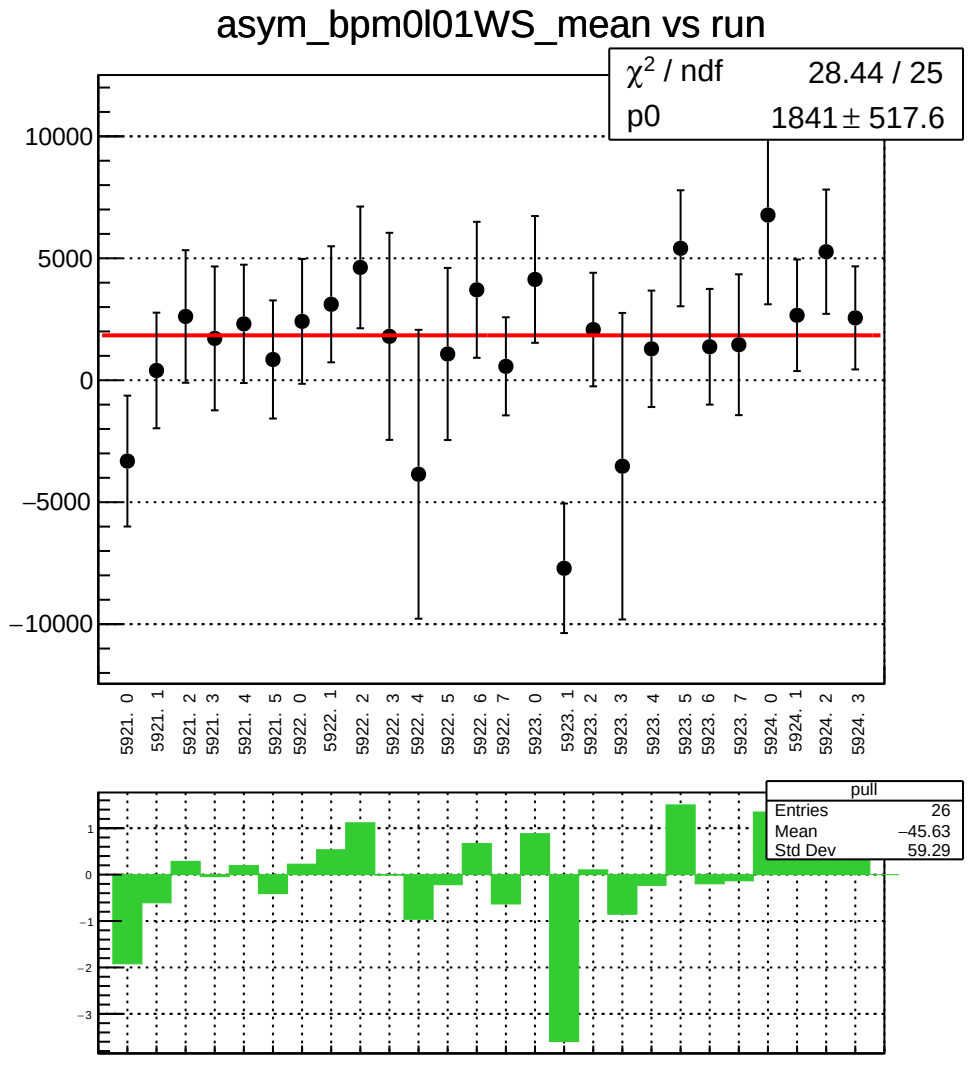

pull1D
Entries 26
Mean −0.114
Std Dev 1.95

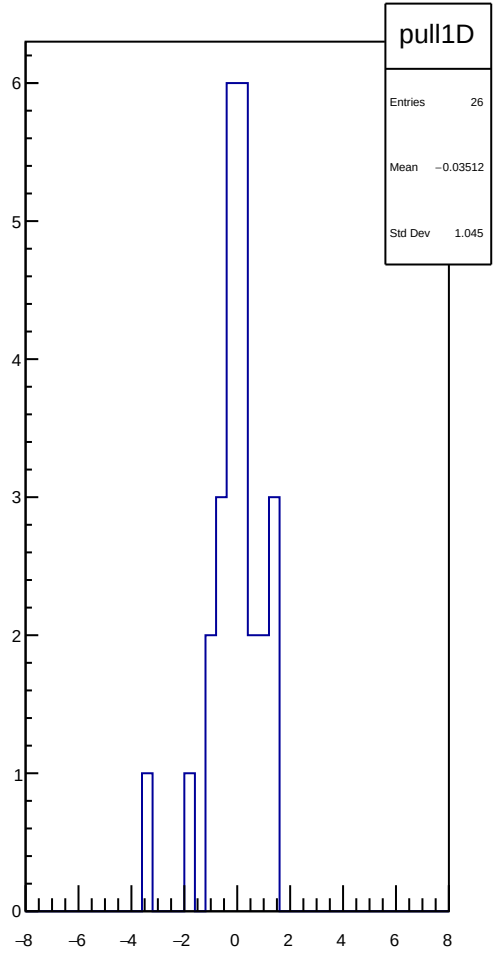

asym_bpm2i01WS_rms vs run
χ² / ndf 6.608e+04 / 25
p0 128.8 ± 0.1951
500
400
300
200
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

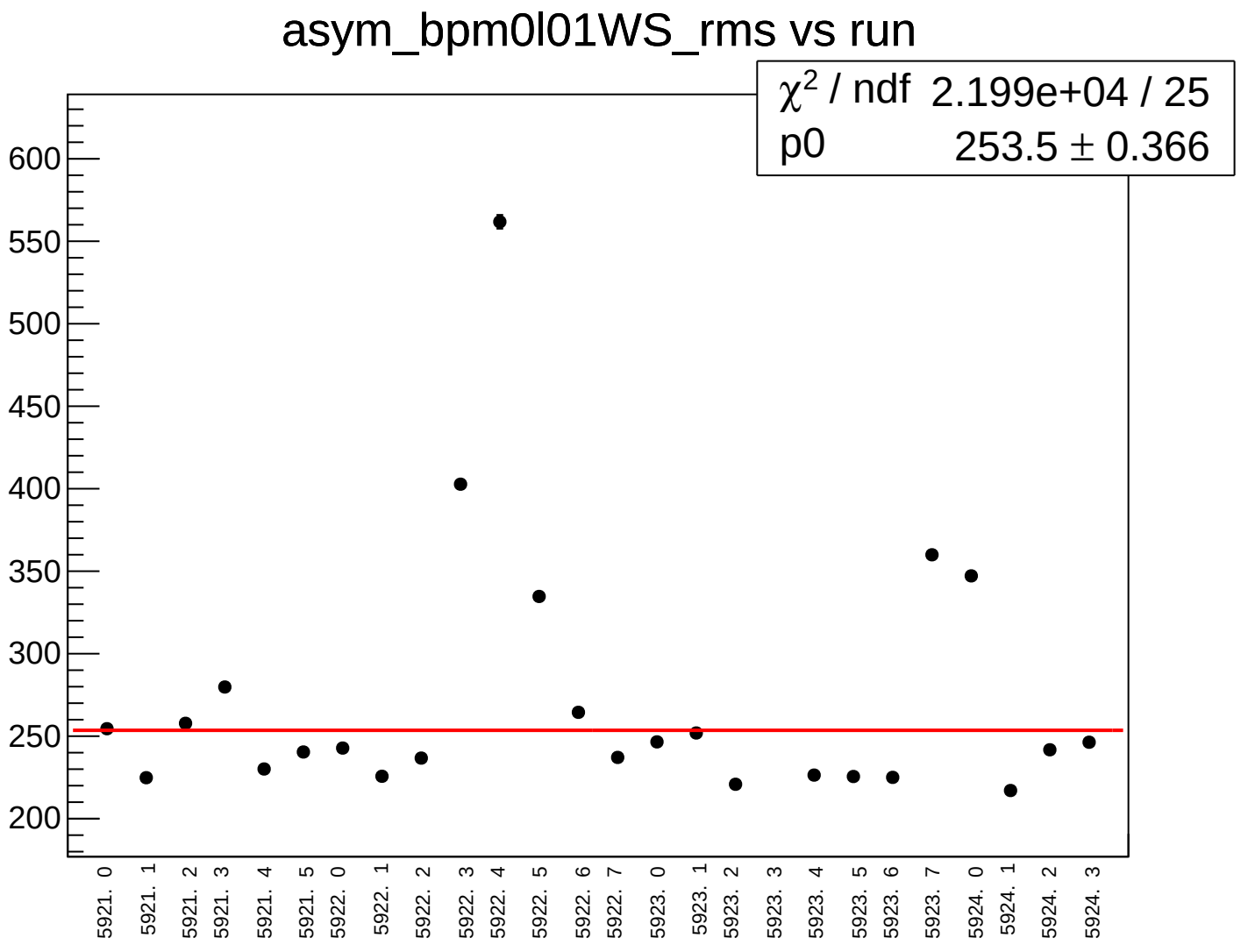

asym_bpm0i07WS_mean vs run
χ² / ndf 23.55 / 25
p0 2011 ± 485.5
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −96.52
Std Dev 112.9
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

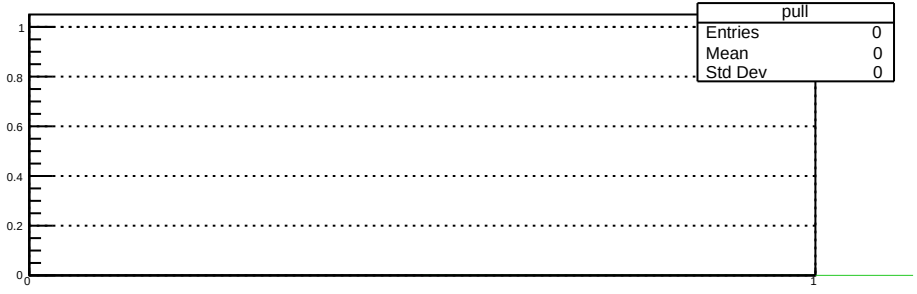

pull1D
Entries 26
Mean −0.01544
Std Dev 0.9516
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

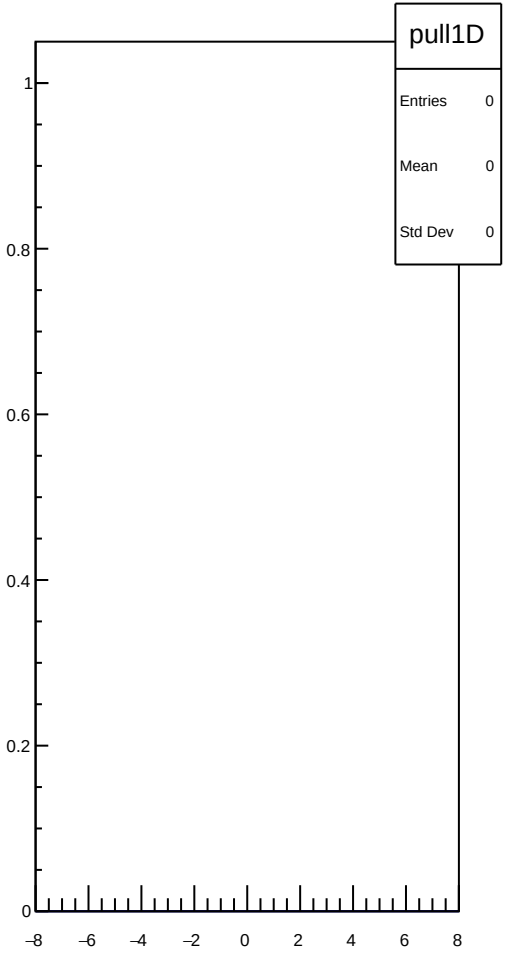

asym_bpm0i07WS_rms vs run
χ² / ndf 2.25e+04 / 25
p0 237.7 ± 0.3433
600
550
500
450
400
350
300
250
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

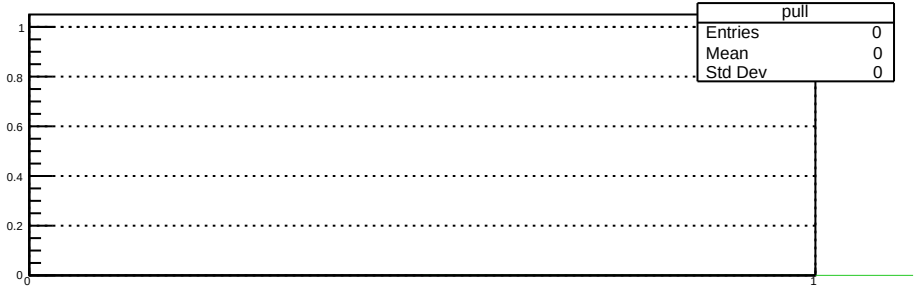

asym_bpm0l01WS_mean vs run
χ² / ndf 28.44 / 25
p0 1841 ± 517.6
10000
5000
0
−5000
−10000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −45.63
Std Dev 59.29
1
0
−1
−2
−3

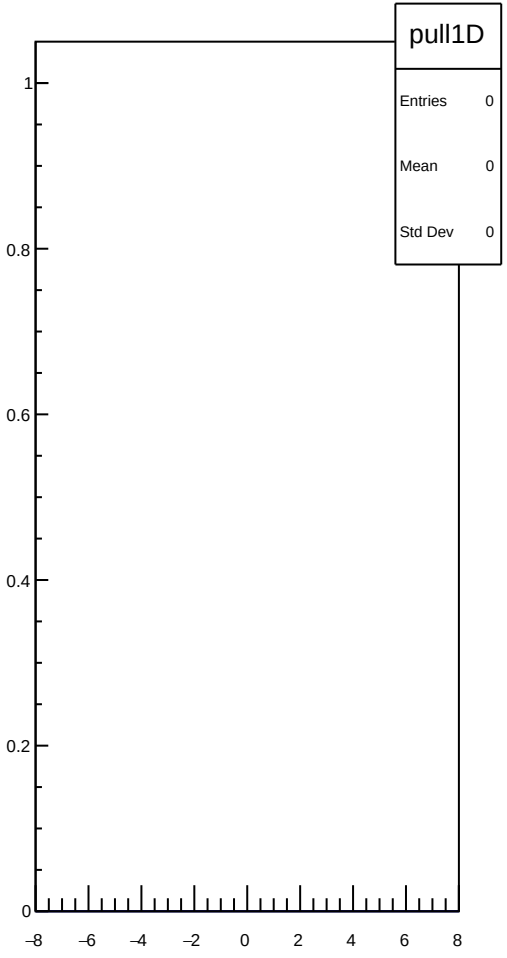

pull1D
Entries 26
Mean −0.03512
Std Dev 1.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

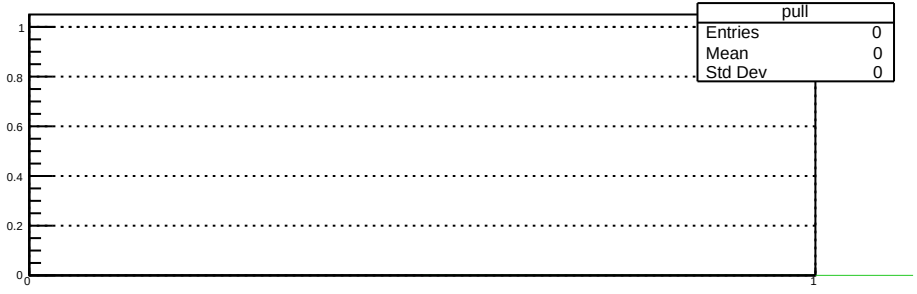

asym_bpm0l01WS_rms vs run
χ² / ndf 2.199e+04 / 25
p0 253.5 ± 0.366
600
550
500
450
400
350
300
250
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

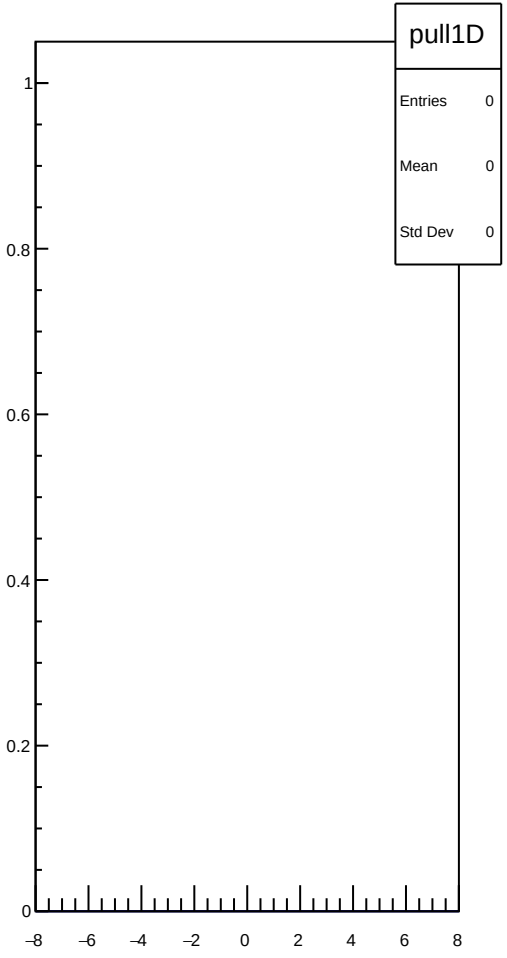

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

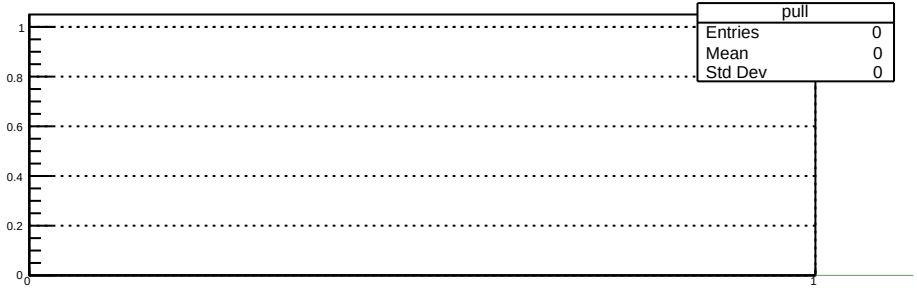

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

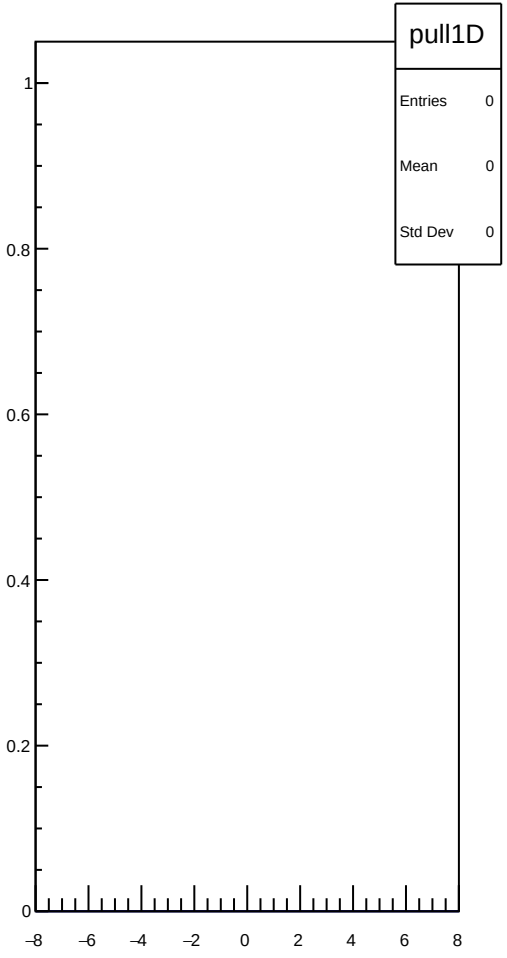

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

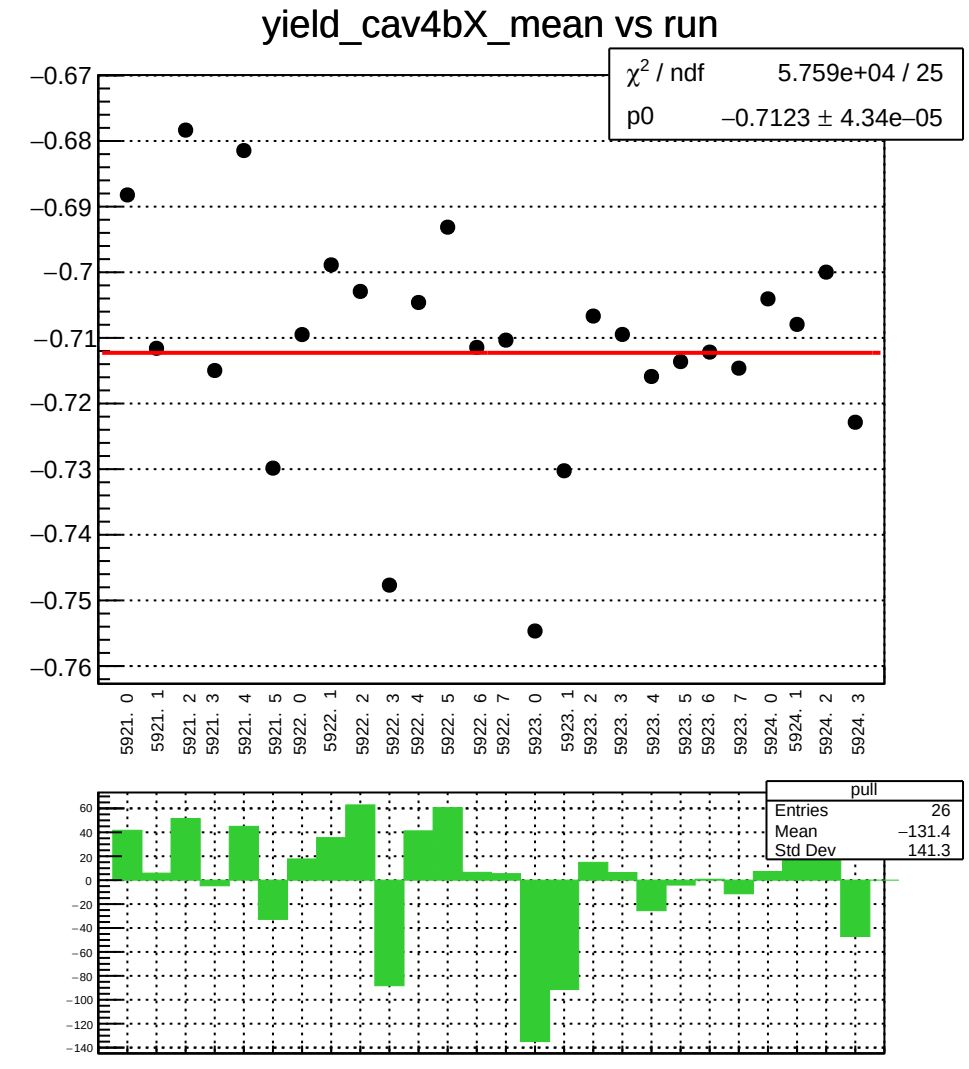

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

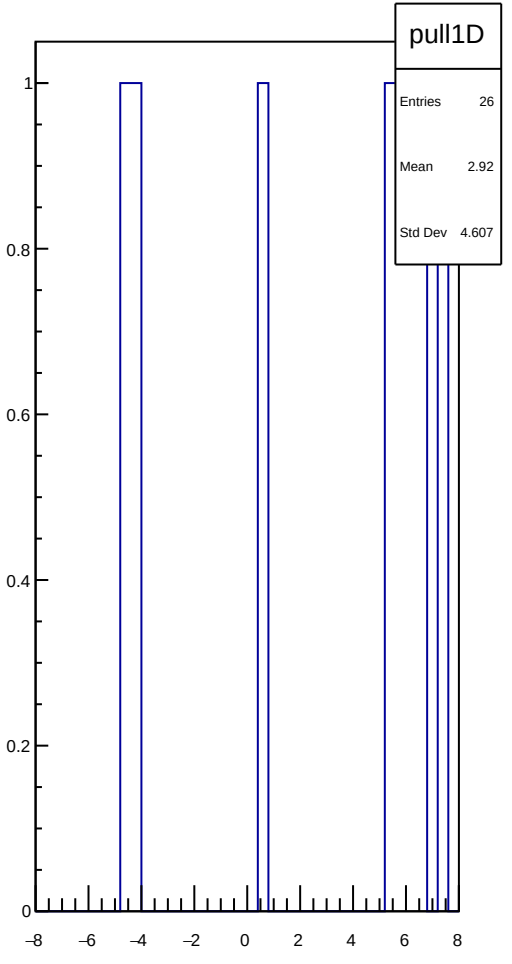

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

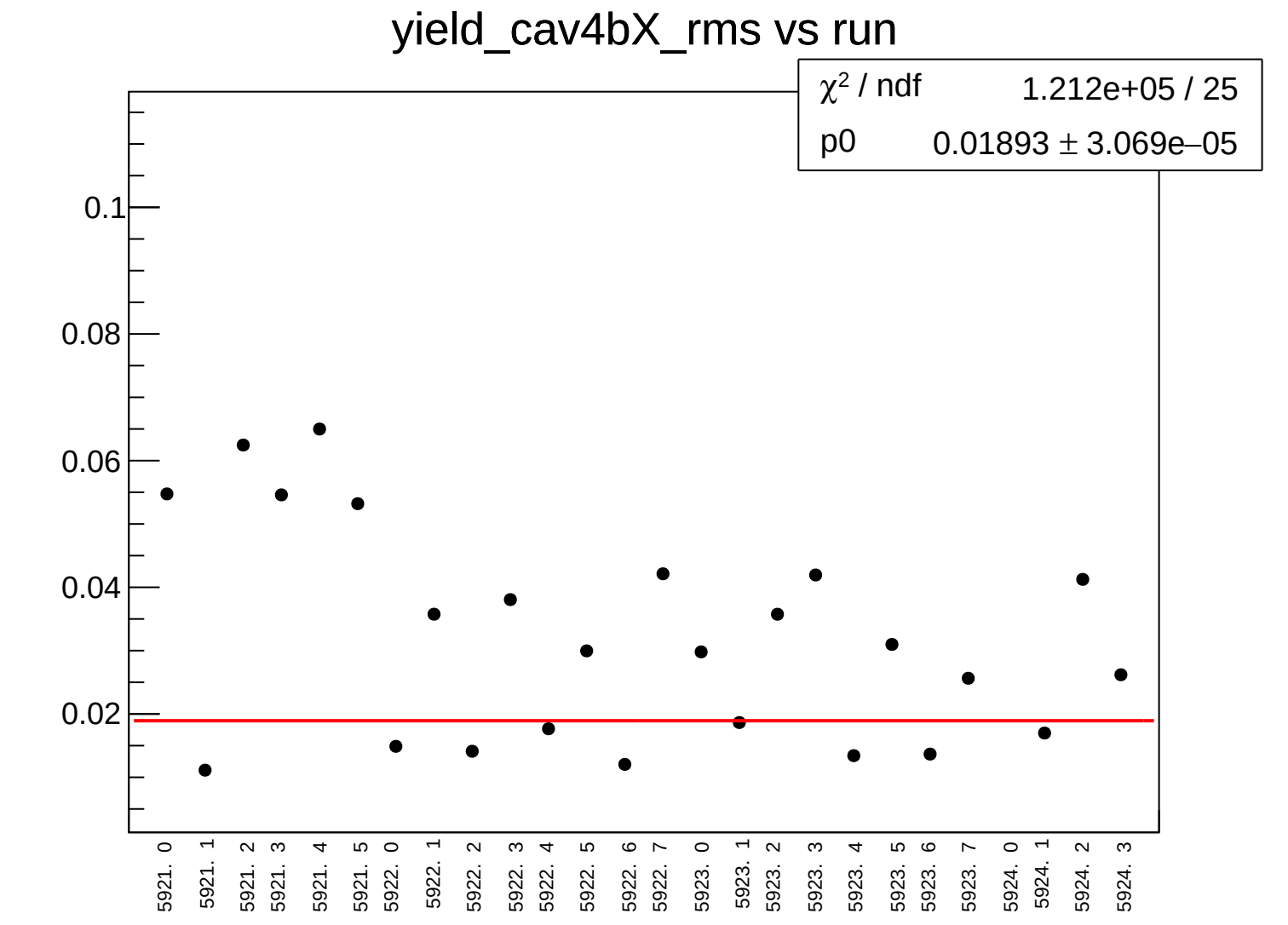

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

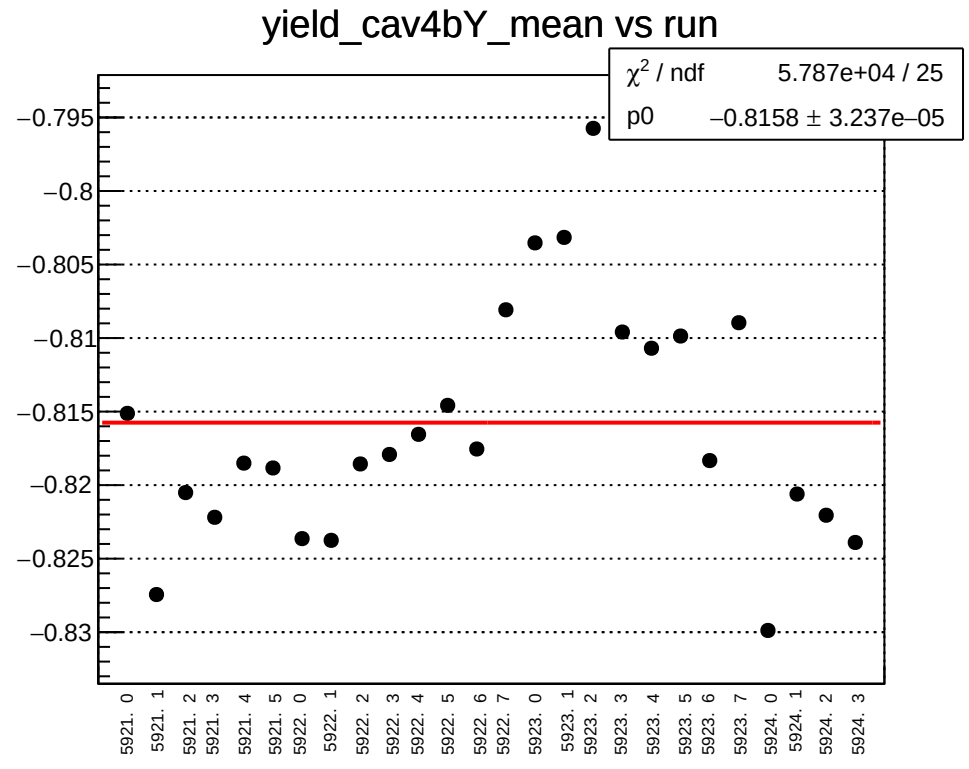

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

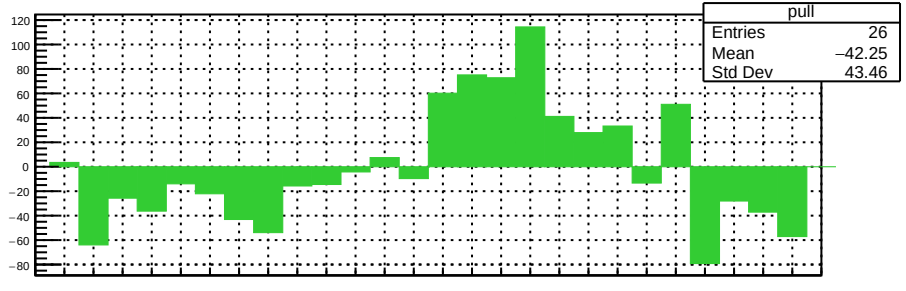

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

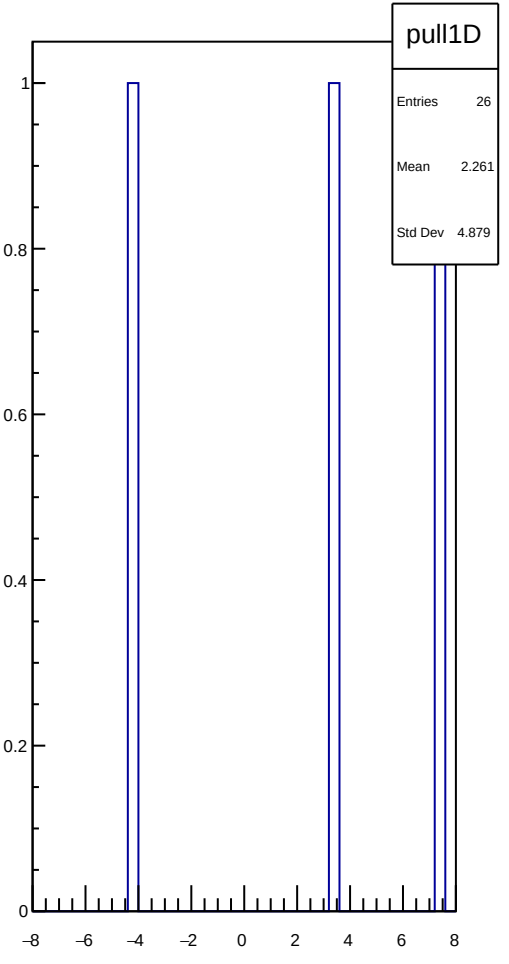

yield_cav4bX_mean vs run
χ² / ndf 5.759e+04 / 25
p0 −0.7123 ± 4.34e−05
−0.67
−0.68
−0.69
−0.7
−0.71
−0.72
−0.73
−0.74
−0.75
−0.76
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −131.4
Std Dev 141.3
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

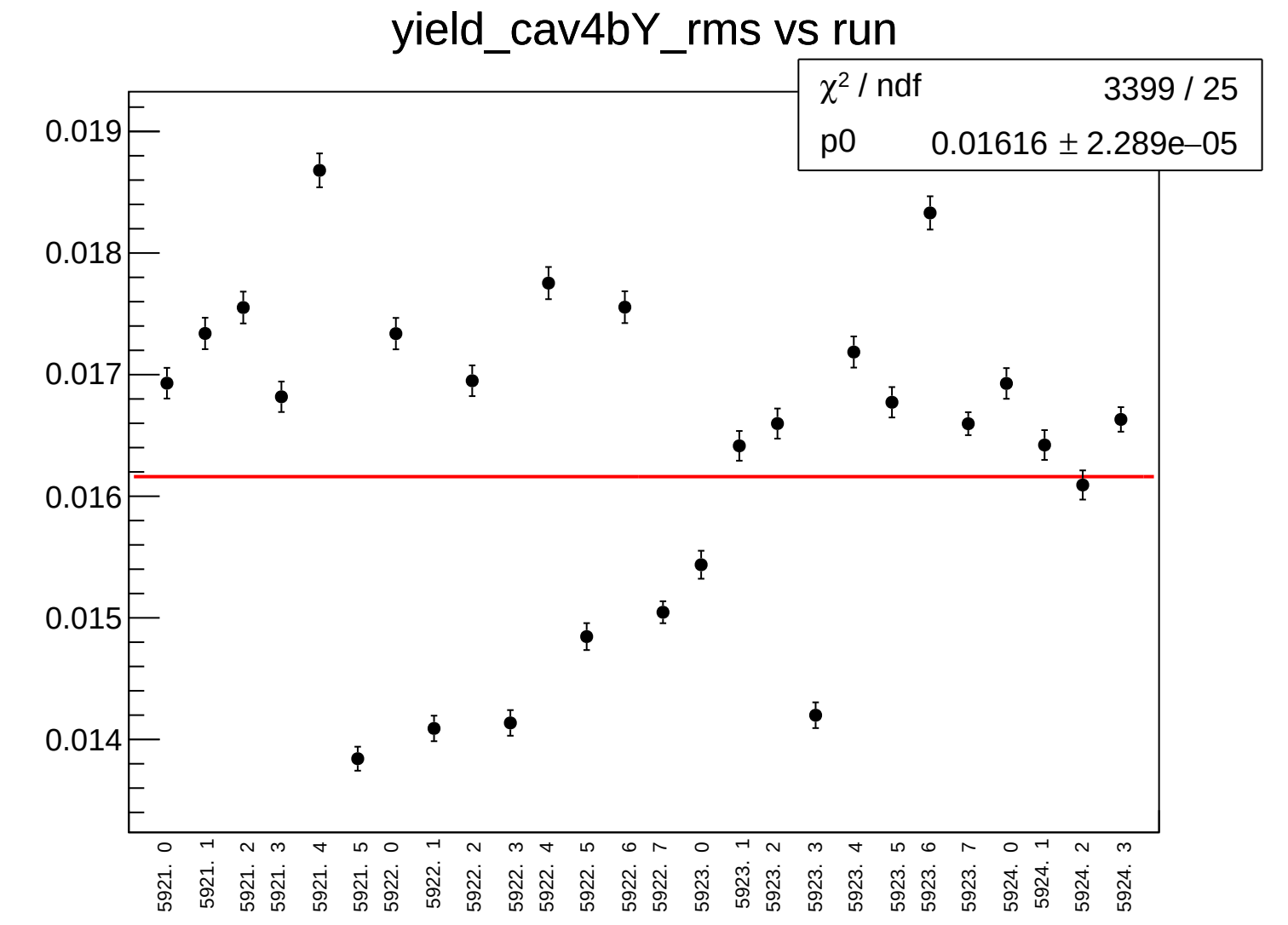

pull1D
Entries 26
Mean 2.92
Std Dev 4.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

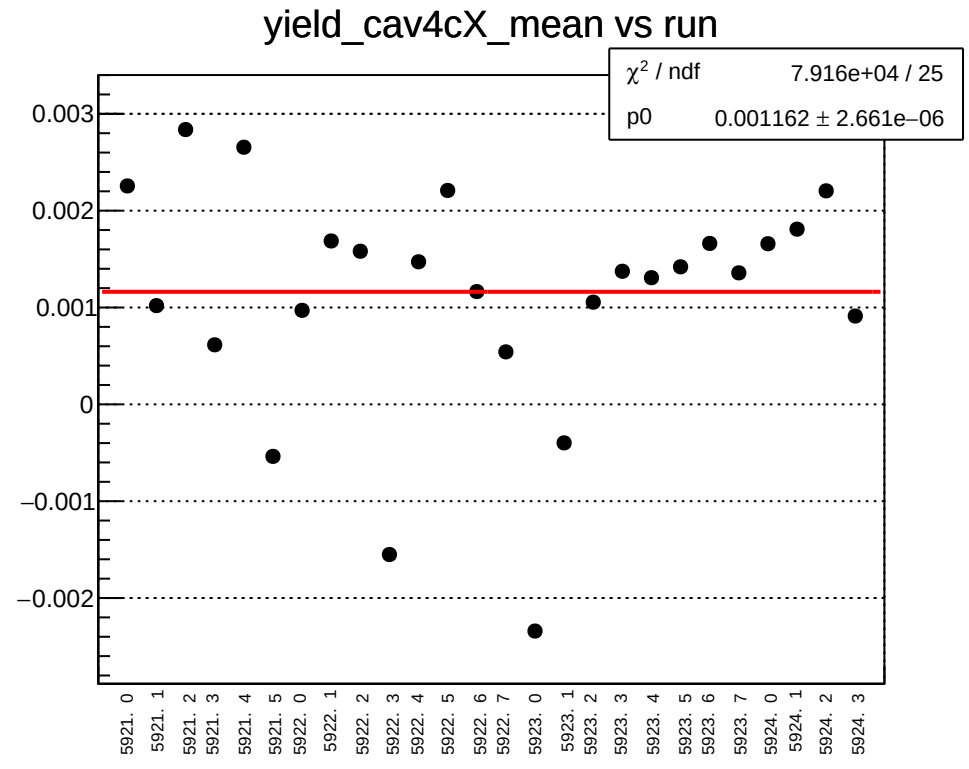

yield_cav4bX_rms vs run
χ² / ndf 1.212e+05 / 25
p0 0.01893 ± 3.069e−05
0.1
0.08
0.06
0.04
0.02
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

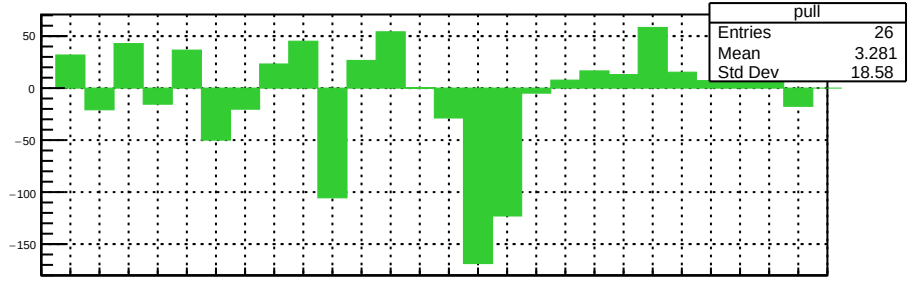

yield_cav4bY_mean vs run
χ² / ndf 5.787e+04 / 25
p0 −0.8158 ± 3.237e−05
−0.795
−0.8
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

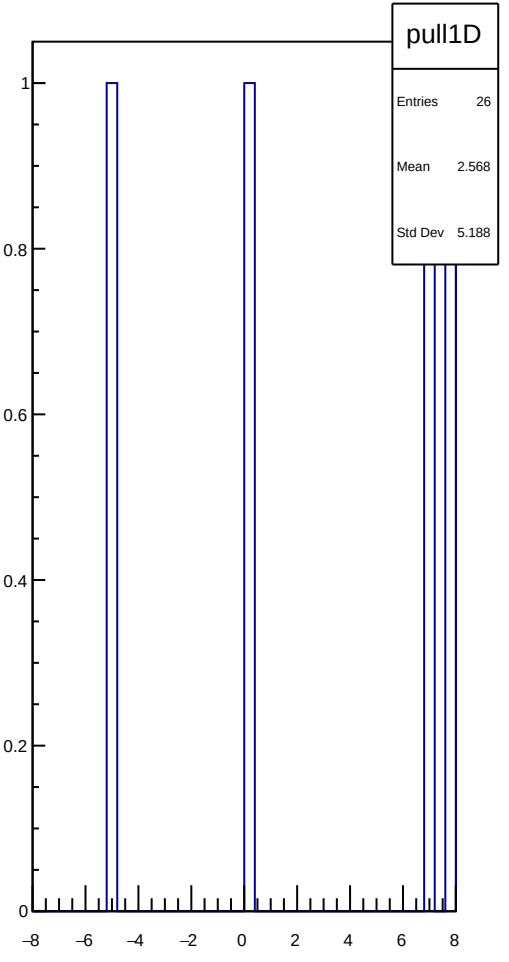

pull
Entries 26
Mean −42.25
Std Dev 43.46
120
100
80
60
40
20
0
−20
−40
−60
−80

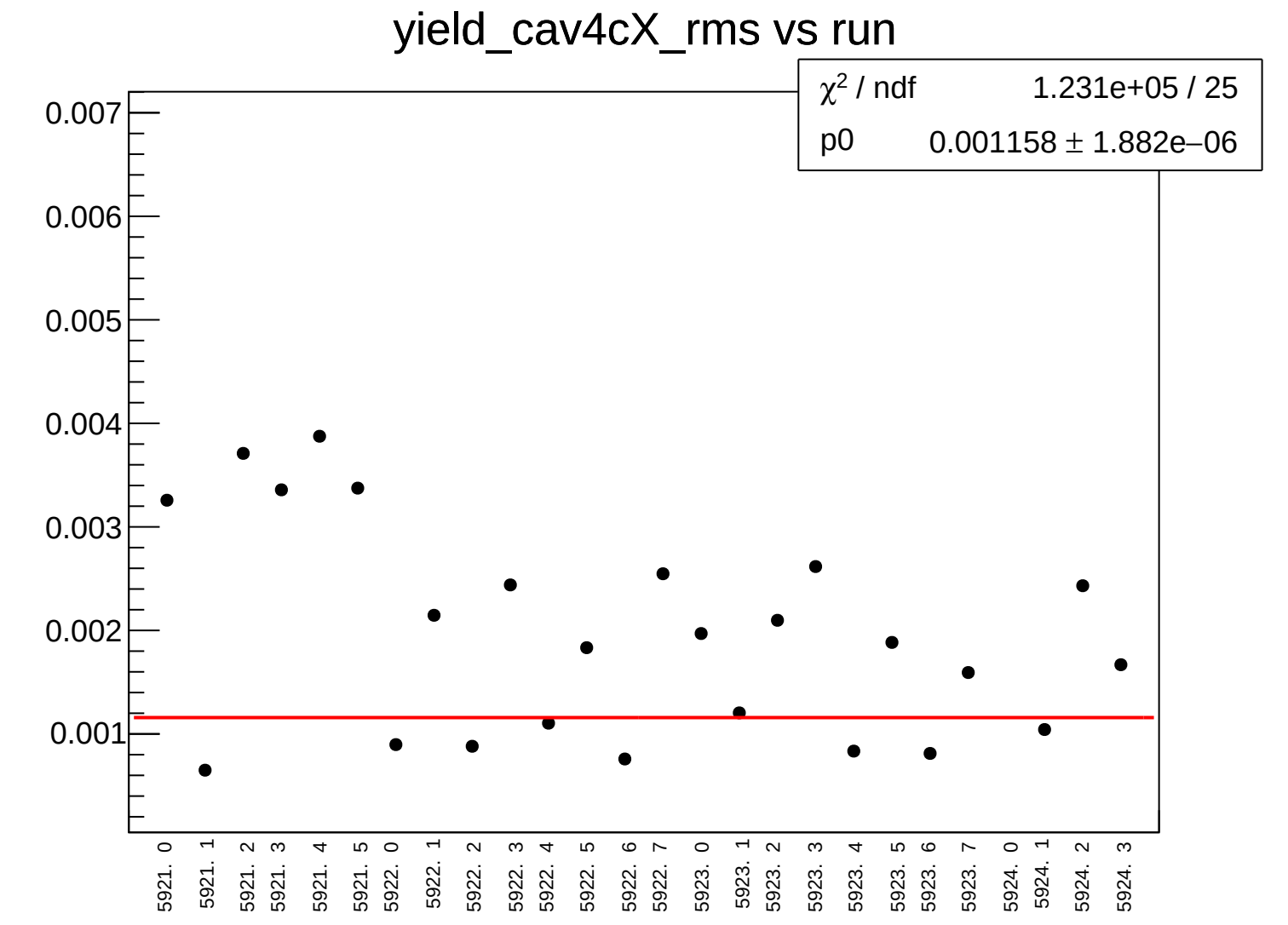

pull1D
Entries 26
Mean 2.261
Std Dev 4.879
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

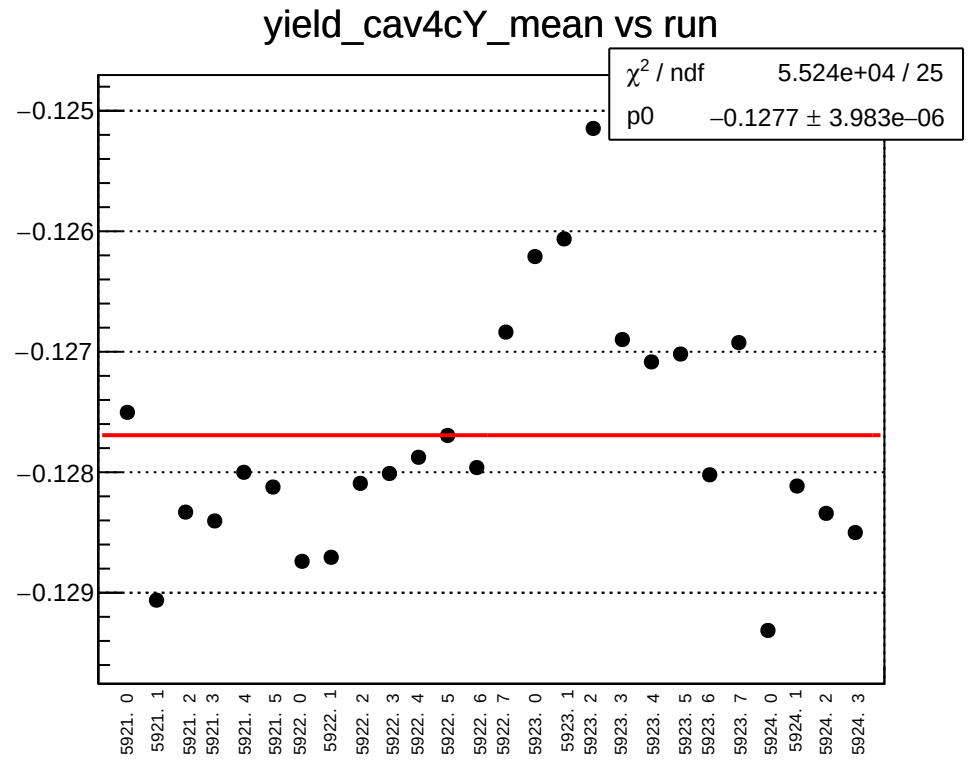

yield_cav4bY_rms vs run
χ² / ndf 3399 / 25
p0 0.01616 ± 2.289e–05
0.019
0.018
0.017
0.016
0.015
0.014
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

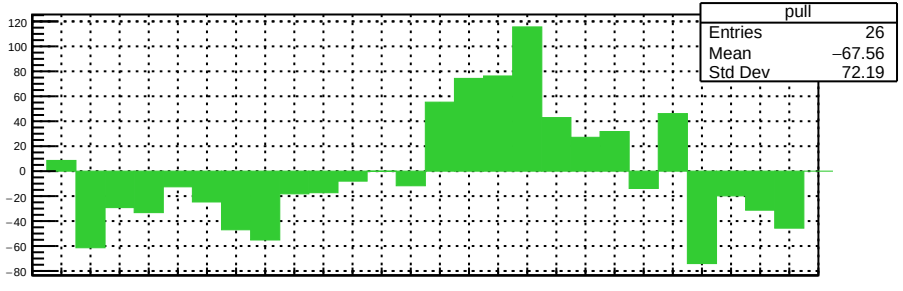

yield_cav4cX_mean vs run
χ² / ndf 7.916e+04 / 25
p0 0.001162 ± 2.661e−06
0.003
0.002
0.001
0
−0.001
−0.002
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

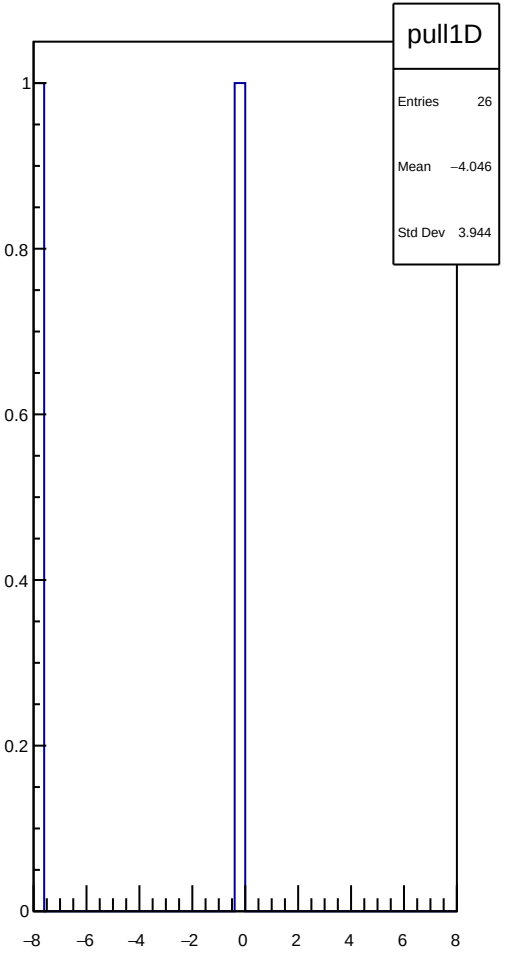

pull
Entries 26
Mean 3.281
Std Dev 18.58
50
0
−50
−100
−150

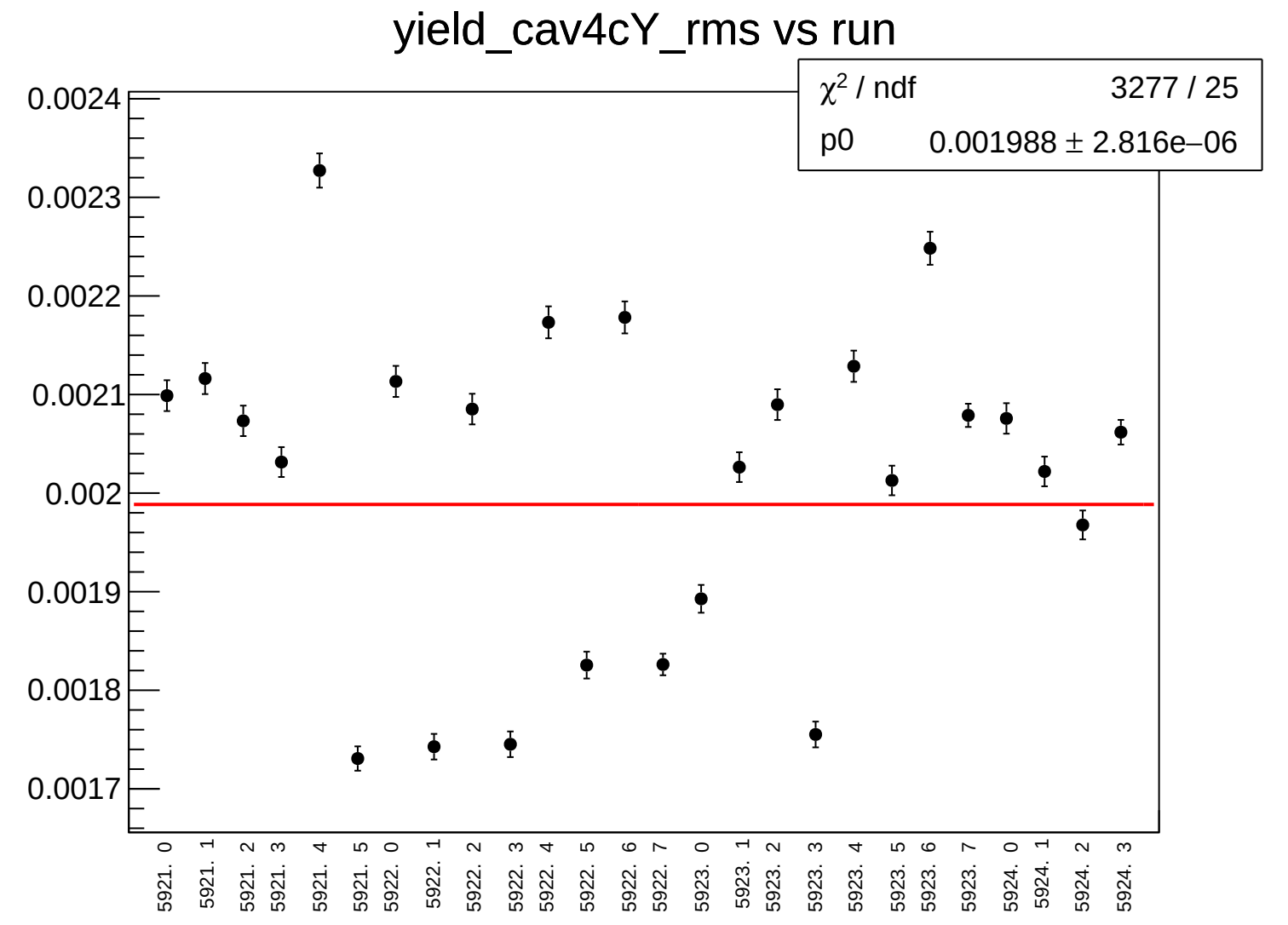

pull1D
Entries 26
Mean 2.568
Std Dev 5.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

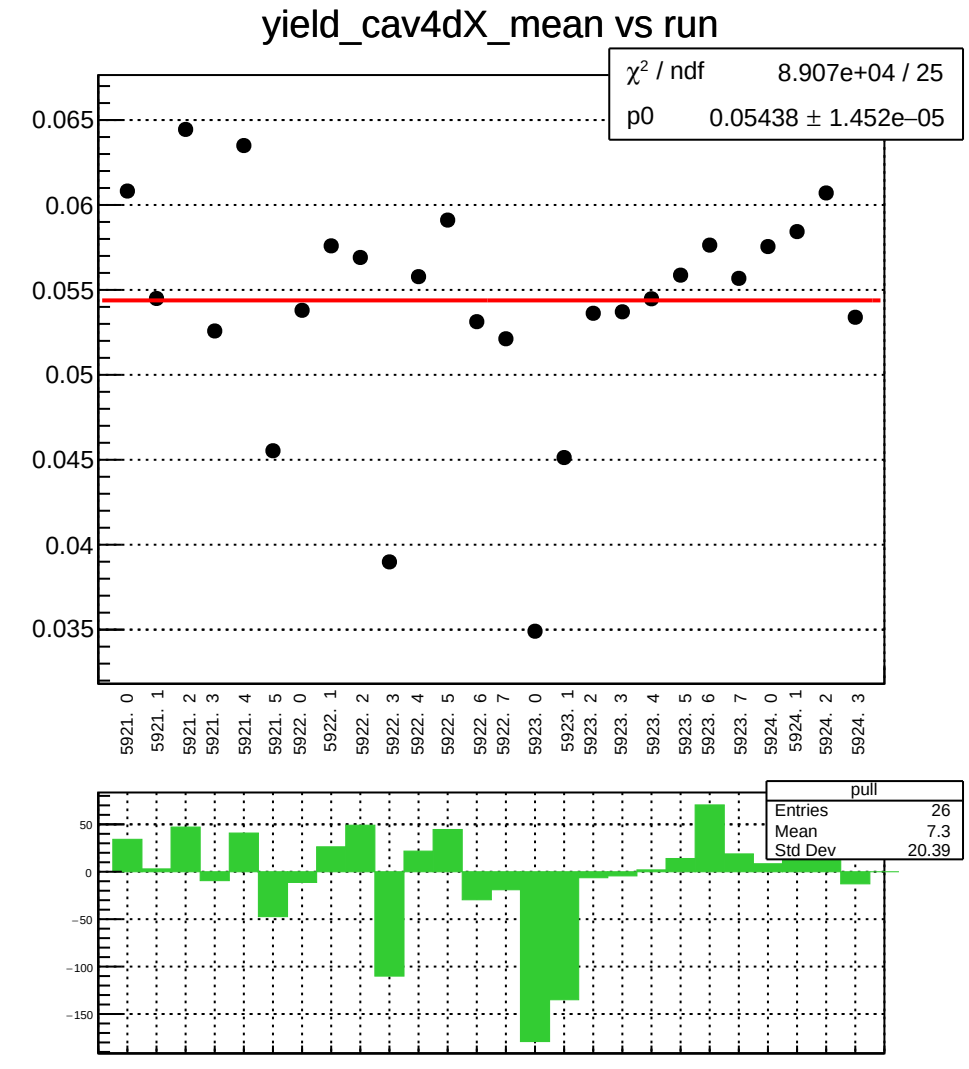

yield_cav4cX_rms vs run
χ² / ndf 1.231e+05 / 25
p0 0.001158 ± 1.882e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

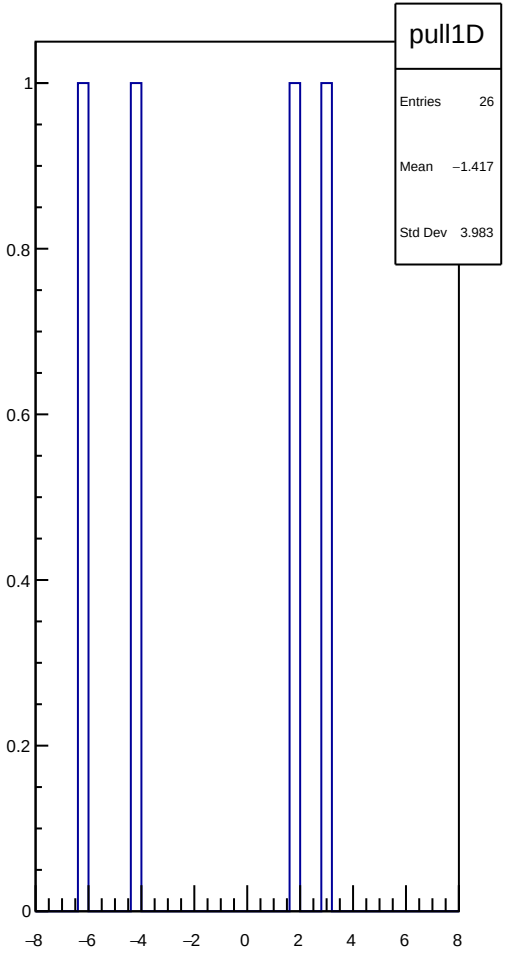

yield_cav4cY_mean vs run
χ² / ndf 5.524e+04 / 25
p0 −0.1277 ± 3.983e−06
−0.125
−0.126
−0.127
−0.128
−0.129
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

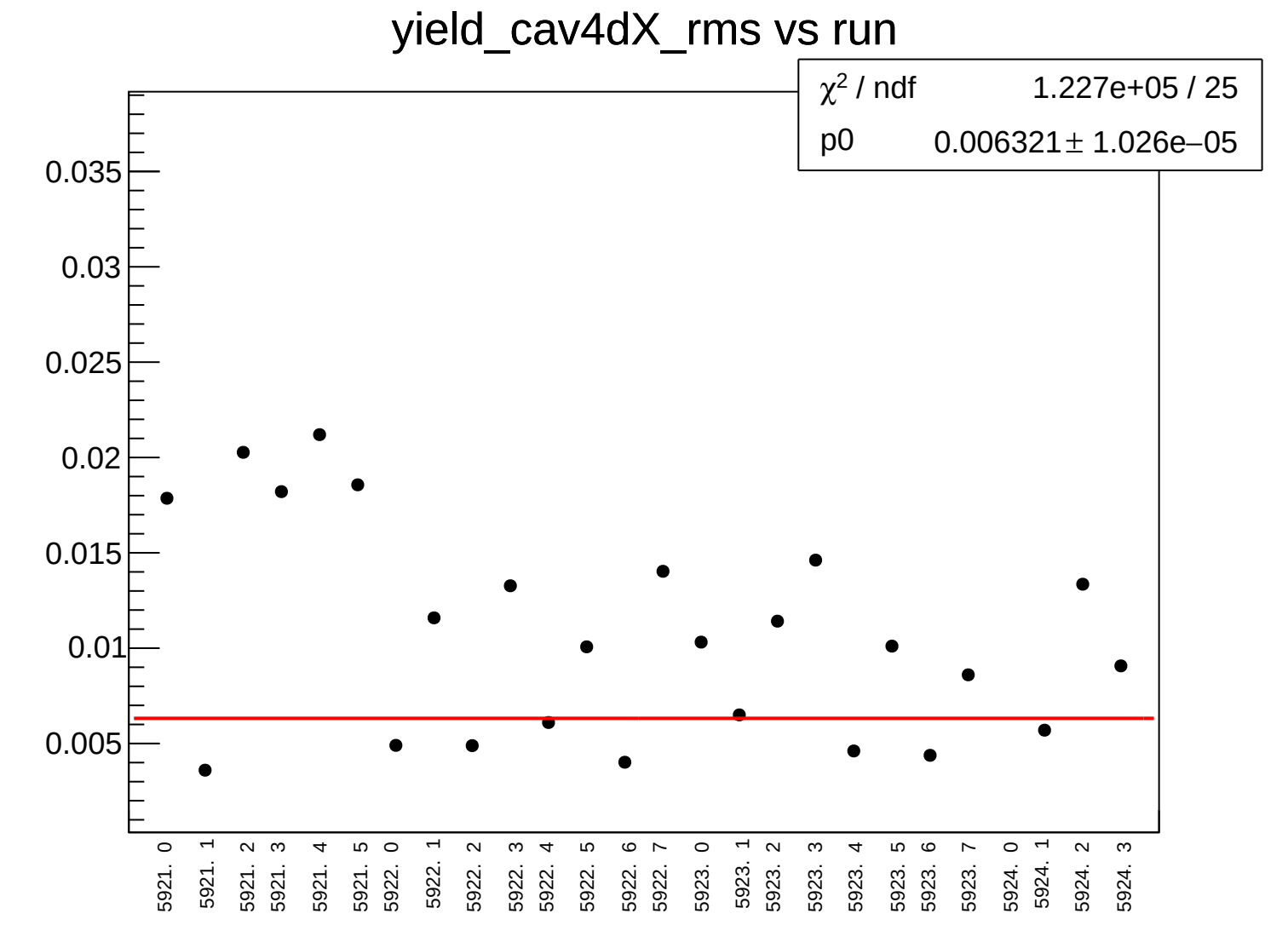

pull
Entries 26
Mean −67.56
Std Dev 72.19
120
100
80
60
40
20
0
−20
−40
−60
−80

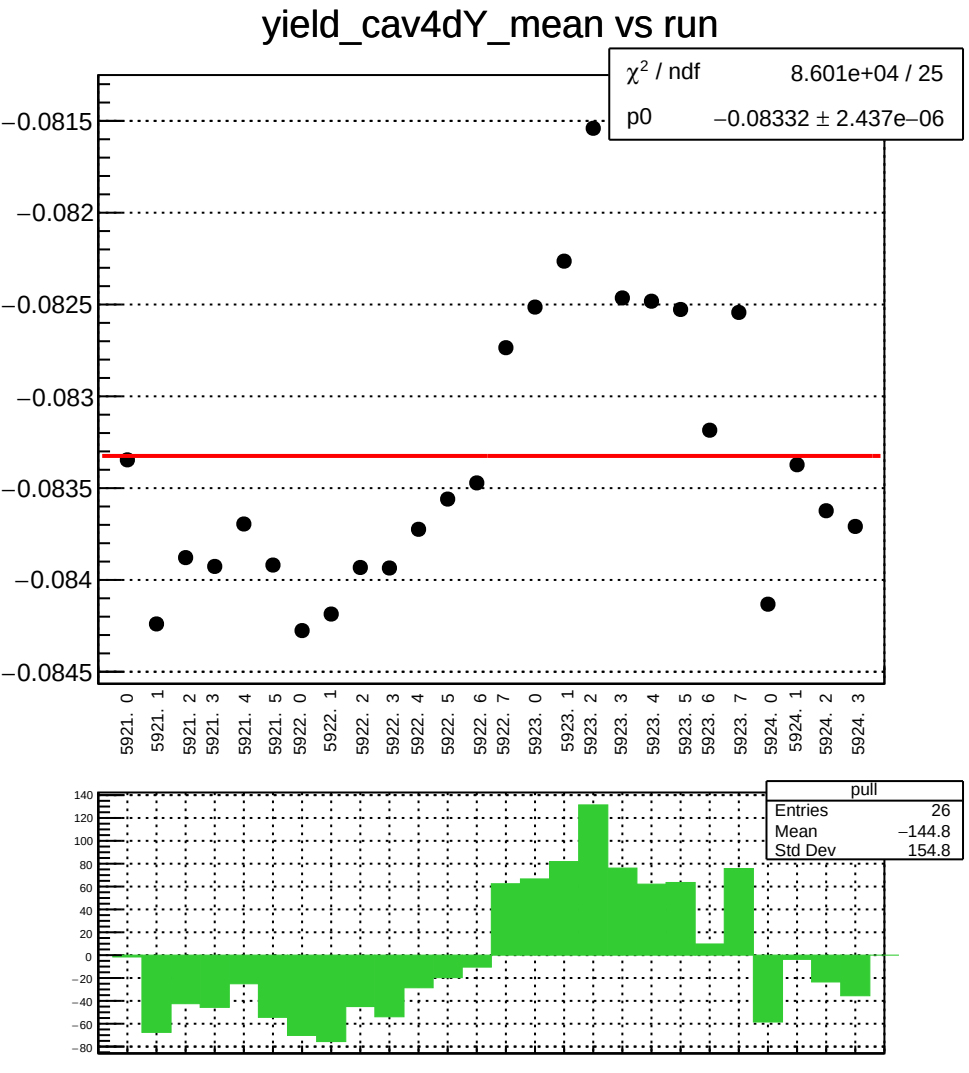

pull1D
Entries 26
Mean −4.046
Std Dev 3.944
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

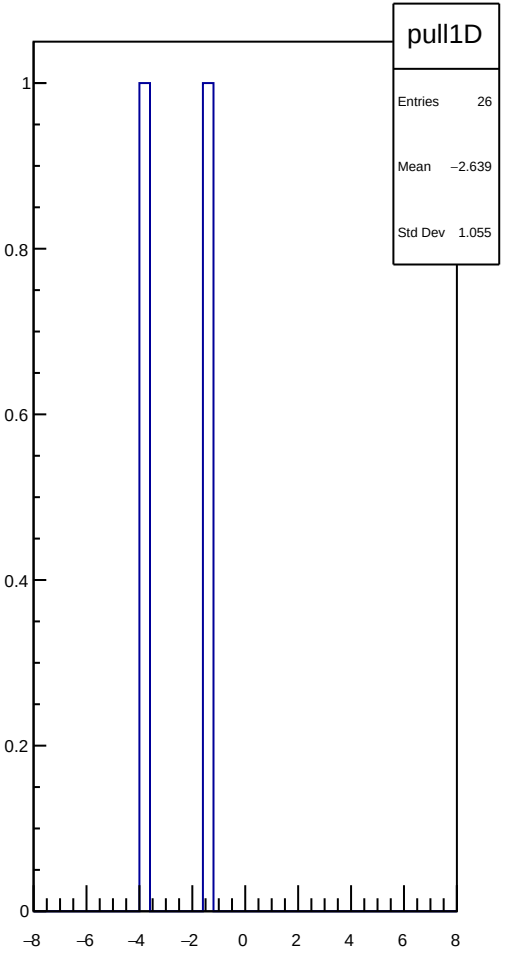

yield_cav4cY_rms vs run
χ² / ndf 3277 / 25
p0 0.001988 ± 2.816e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

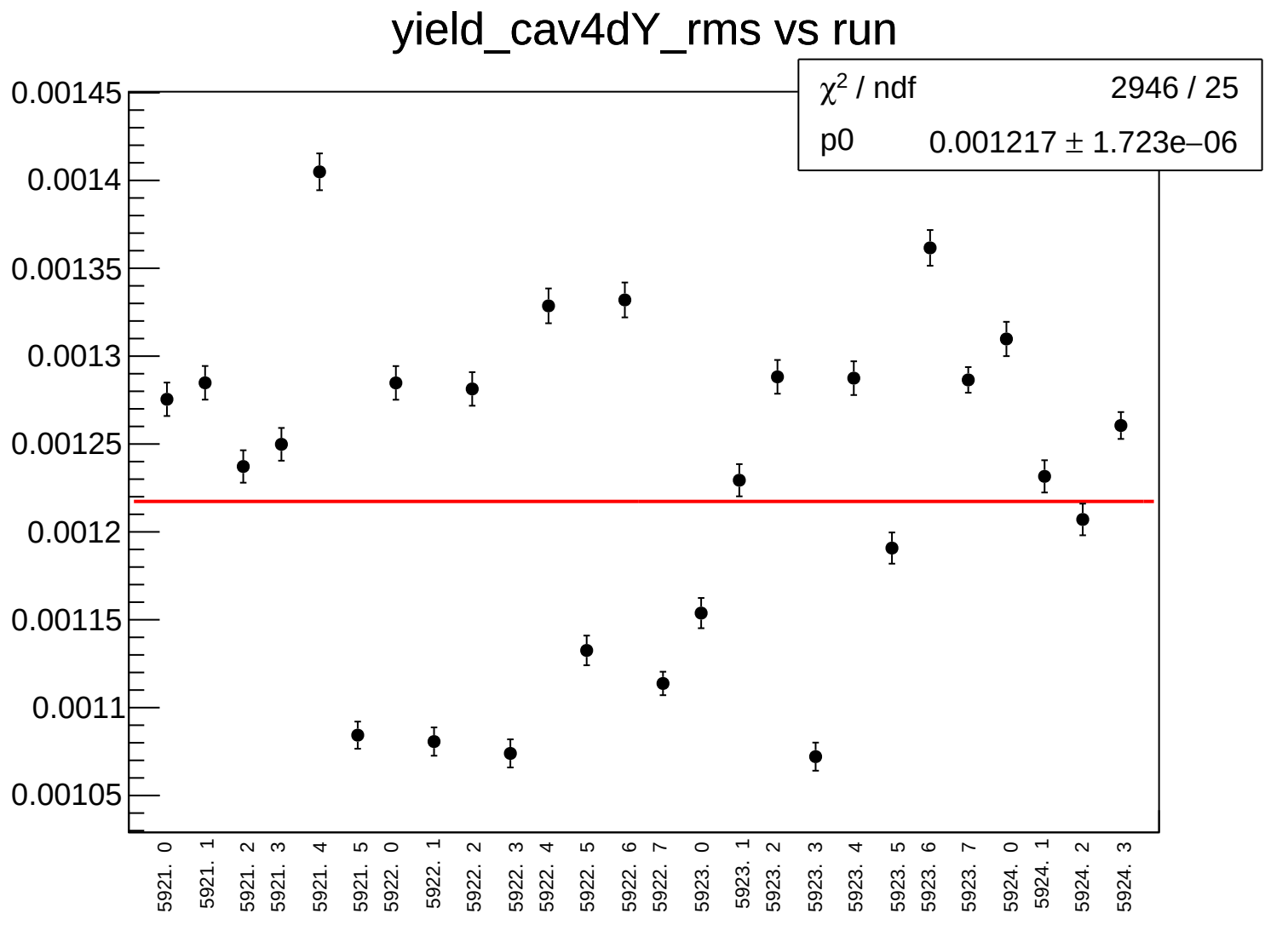

yield_cav4dX_mean vs run
χ² / ndf 8.907e+04 / 25
p0 0.05438 ± 1.452e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 7.3
Std Dev 20.39
50
0
−50
−100
−150

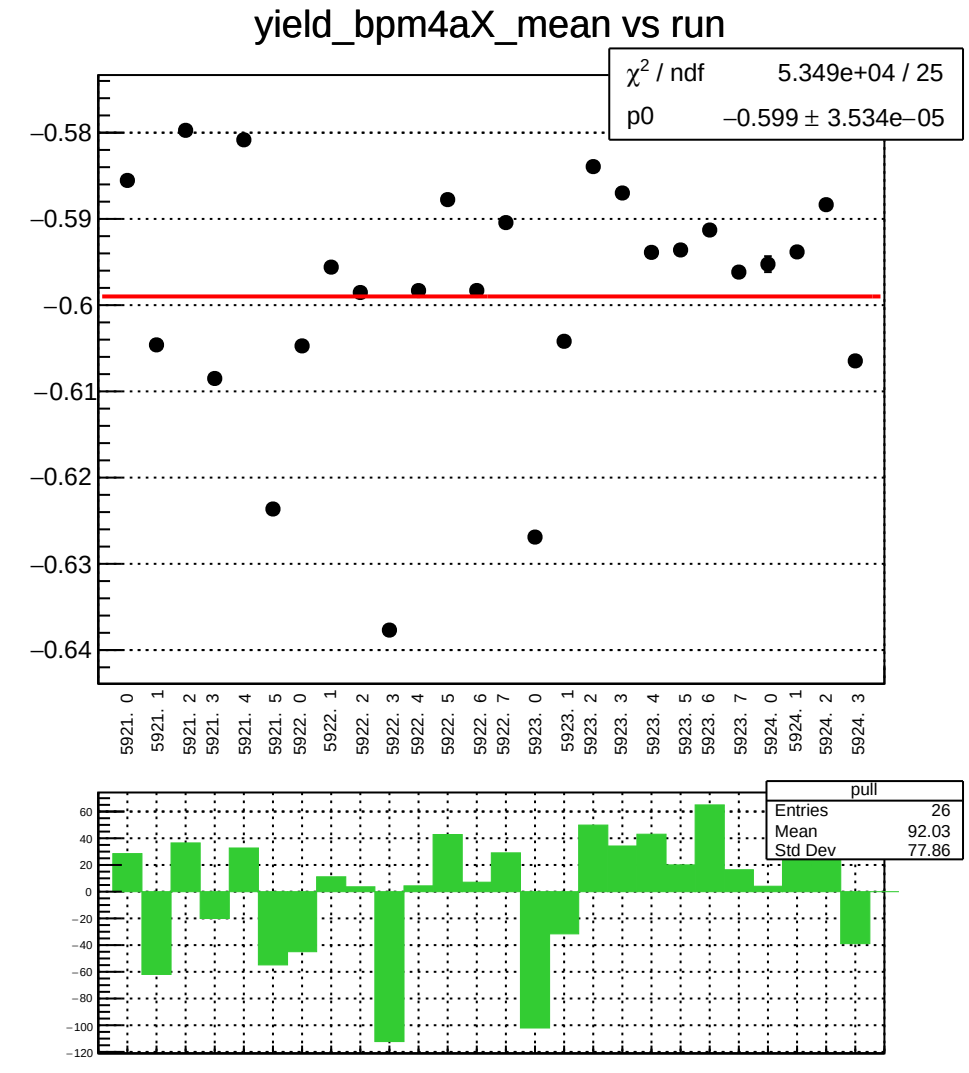

pull1D
Entries 26
Mean −1.417
Std Dev 3.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

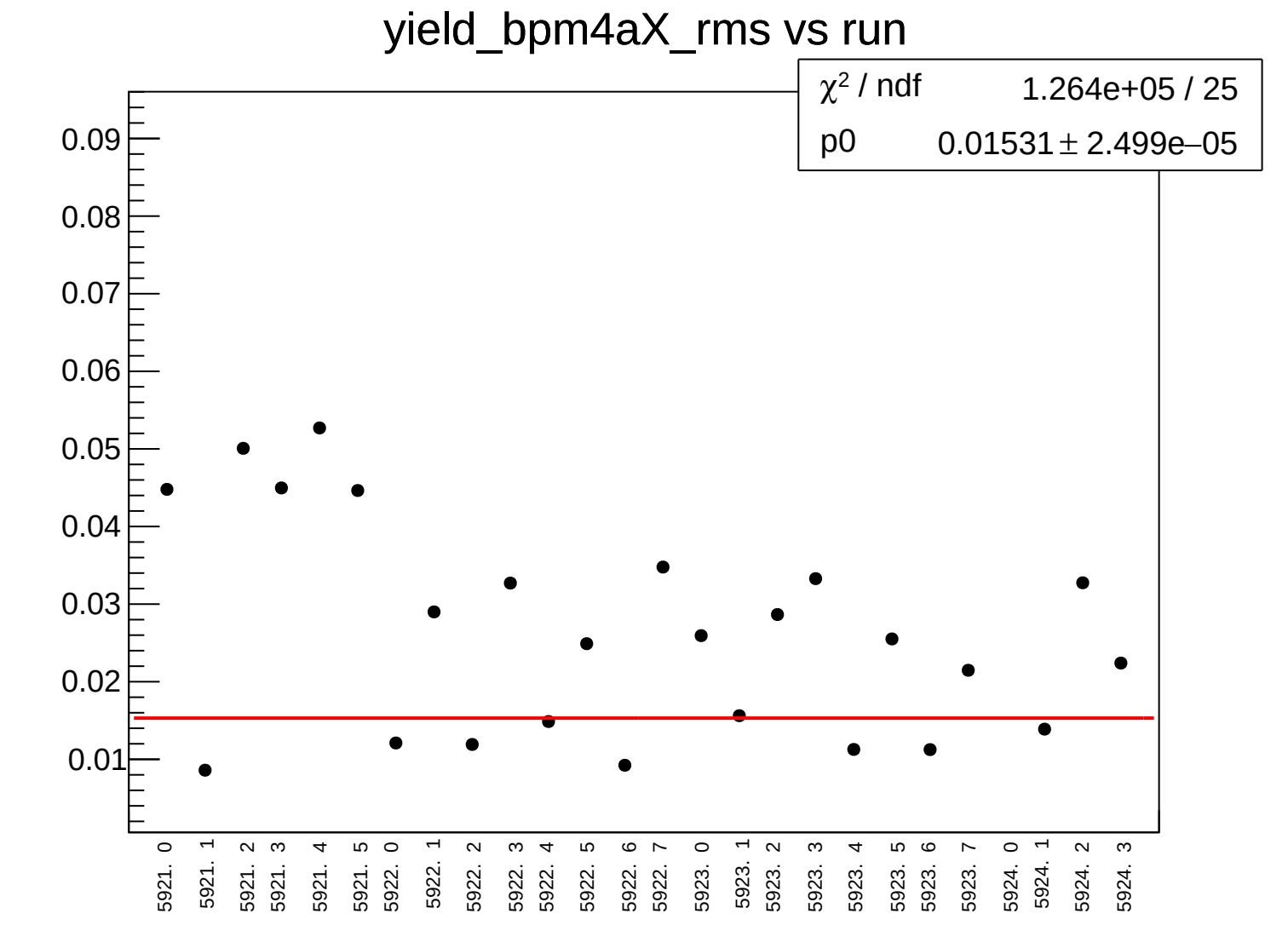

yield_cav4dX_rms vs run
χ² / ndf 1.227e+05 / 25
p0 0.006321 ± 1.026e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

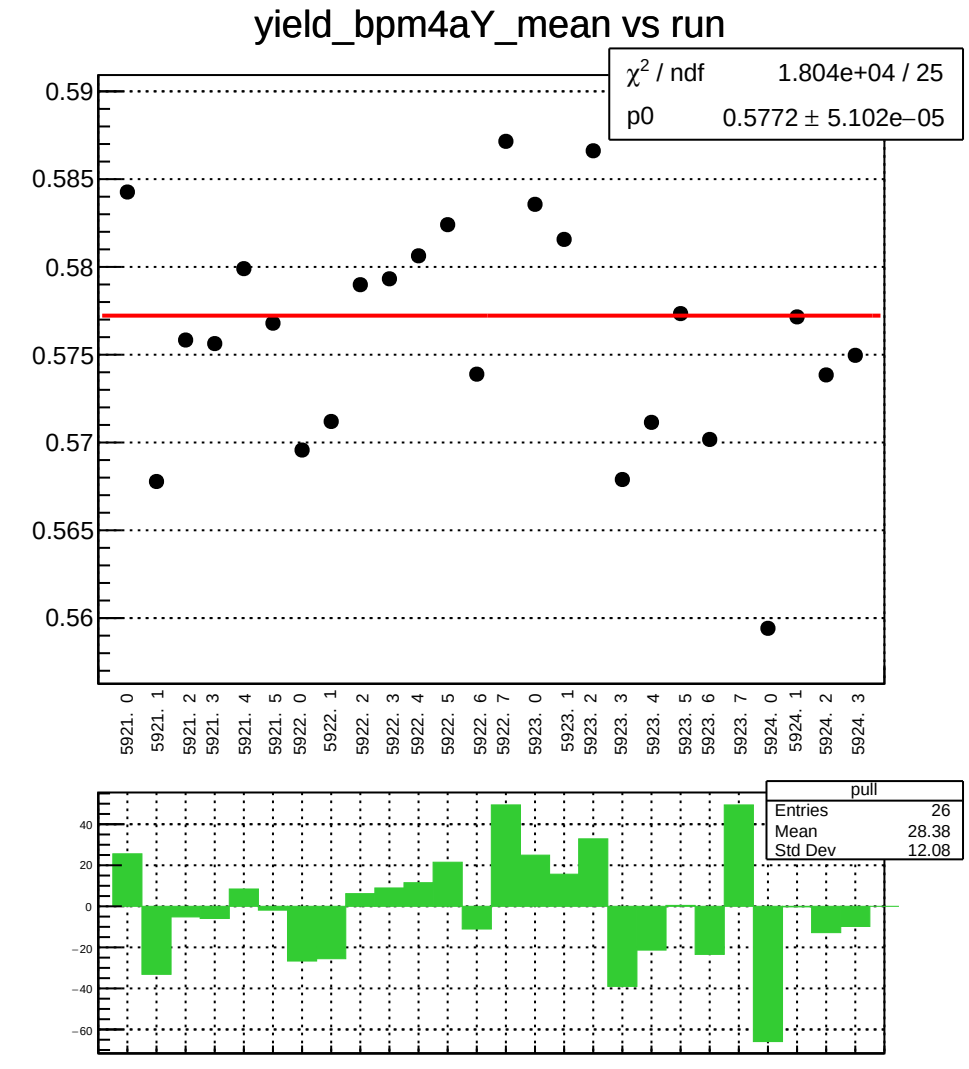

yield_cav4dY_mean vs run
χ² / ndf 8.601e+04 / 25
p0 −0.08332 ± 2.437e−06
−0.0815
−0.082
−0.0825
−0.083
−0.0835
−0.084
−0.0845
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −144.8
Std Dev 154.8
140
120
100
80
60
40
20
0
−20
−40
−60
−80

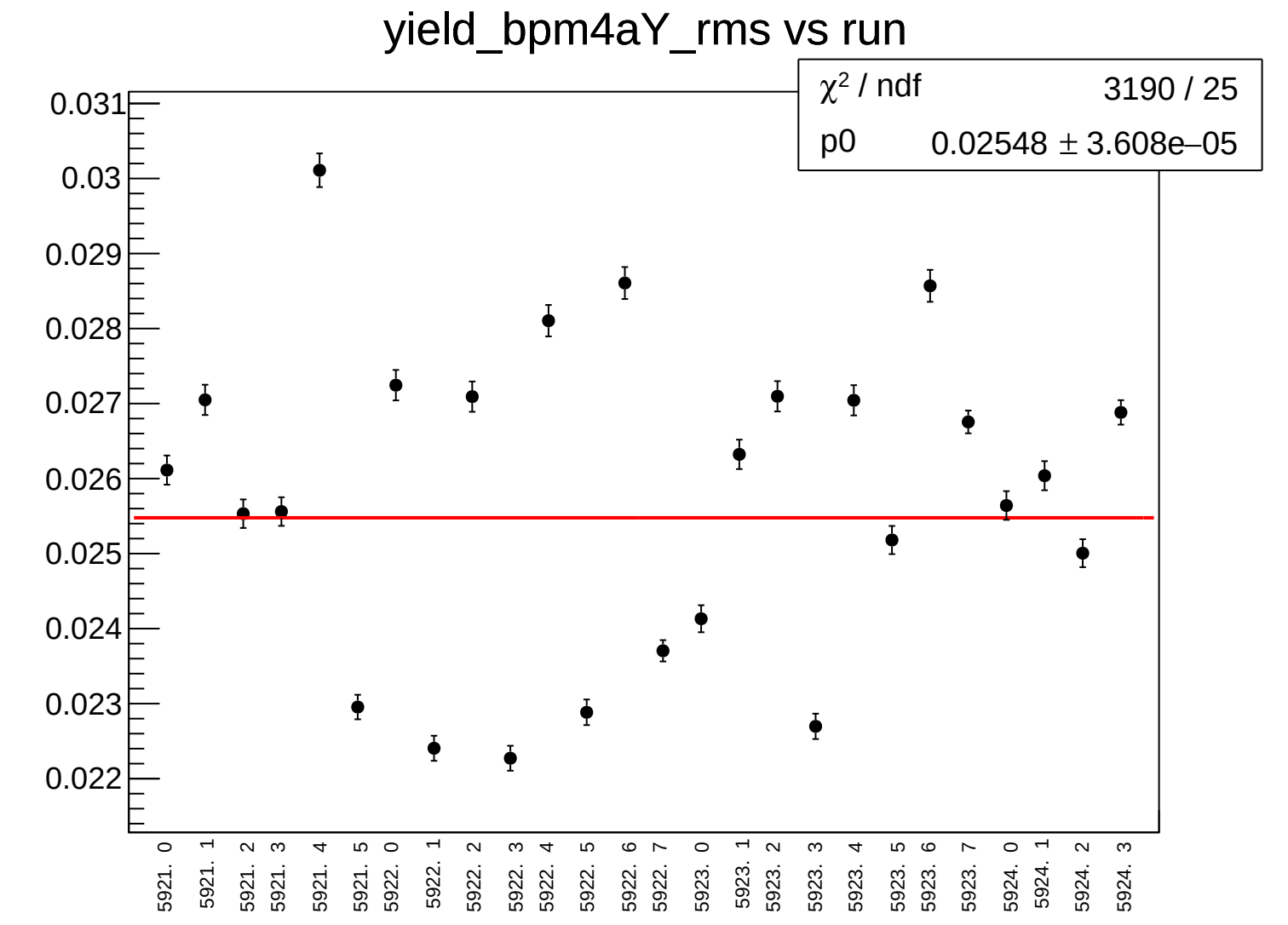

pull1D
Entries 26
Mean −2.639
Std Dev 1.055
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

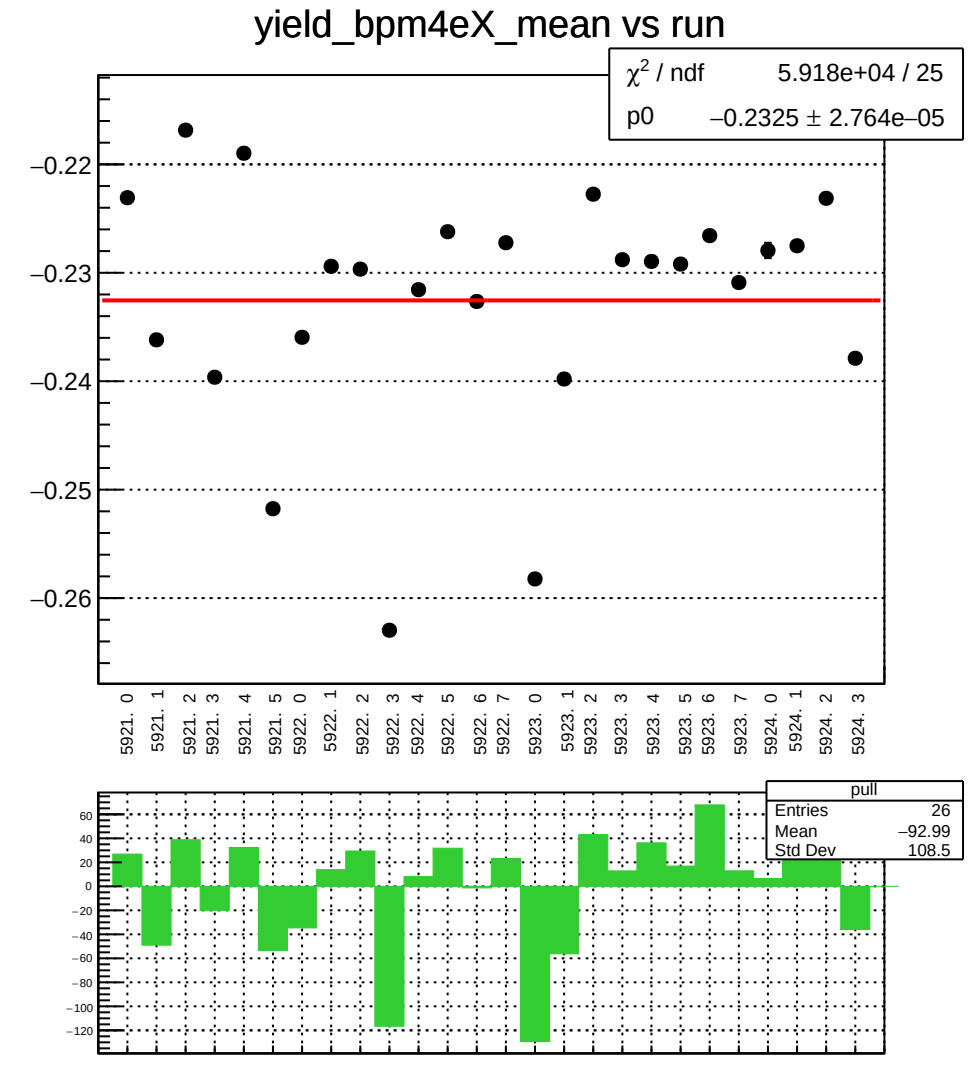

yield_cav4dY_rms vs run
χ² / ndf 2946 / 25
p0 0.001217 ± 1.723e−06
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

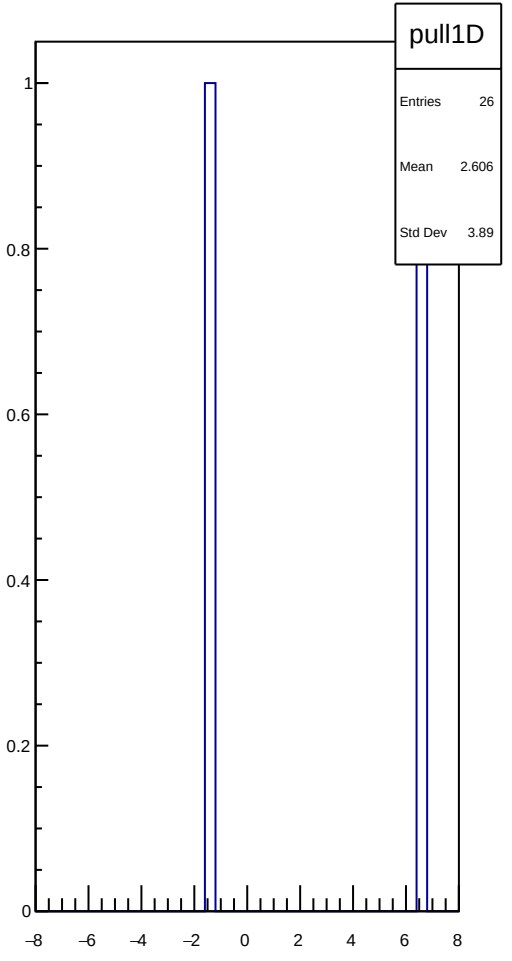

yield_bpm4aX_mean vs run
χ² / ndf 5.349e+04 / 25
p0 −0.599 ± 3.534e−05
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 92.03
Std Dev 77.86
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 26
Mean 4.789
Std Dev 1.351
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

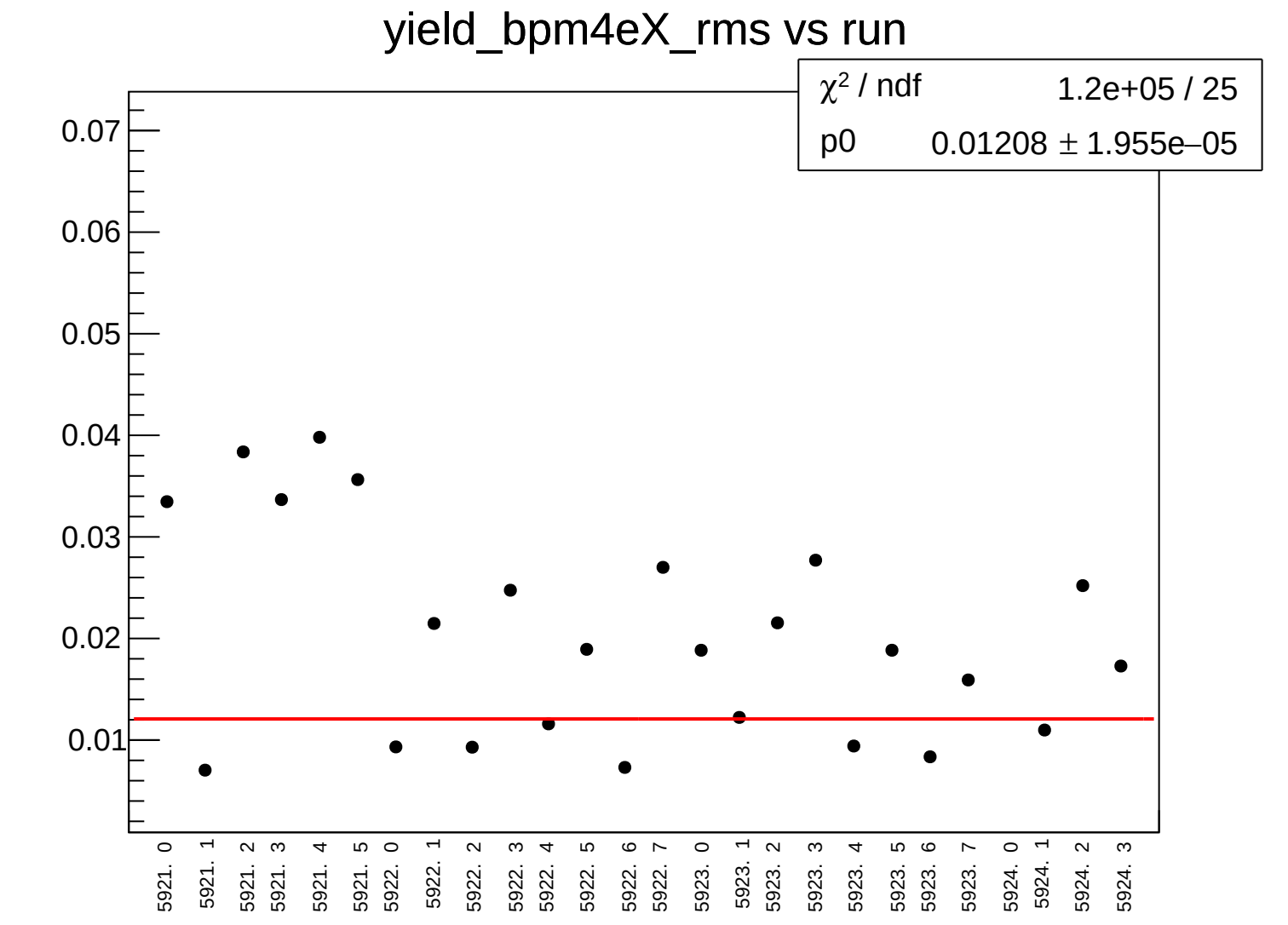

yield_bpm4aX_rms vs run
χ² / ndf 1.264e+05 / 25
p0 0.01531 ± 2.499e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

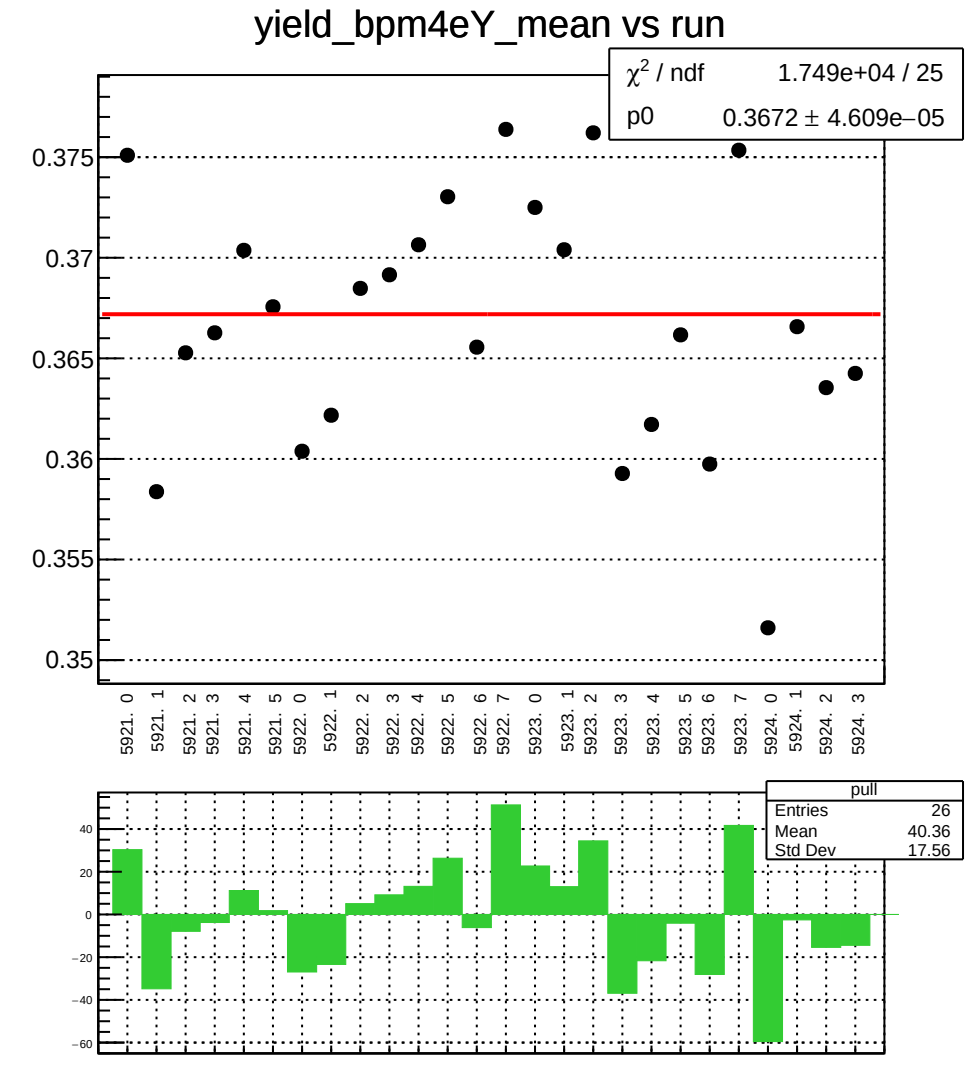

yield_bpm4aY_mean vs run
χ² / ndf 1.804e+04 / 25
p0 0.5772 ± 5.102e−05
0.59
0.585
0.58
0.575
0.57
0.565
0.56
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 28.38
Std Dev 12.08
40
20
0
−20
−40
−60
pull1D
Entries 26
Mean −1.095
Std Dev 4.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

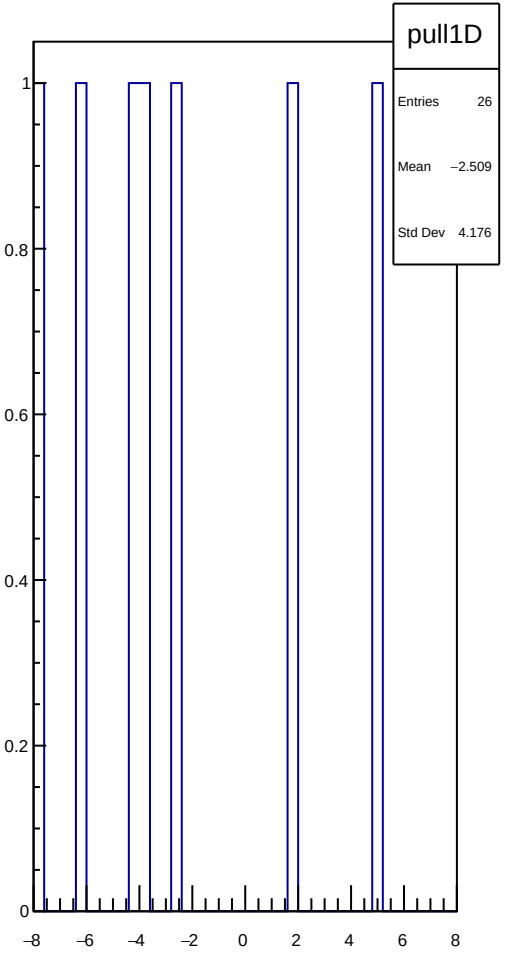

yield_bpm4aY_rms vs run
χ² / ndf 3190 / 25
p0 0.02548 ± 3.608e–05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

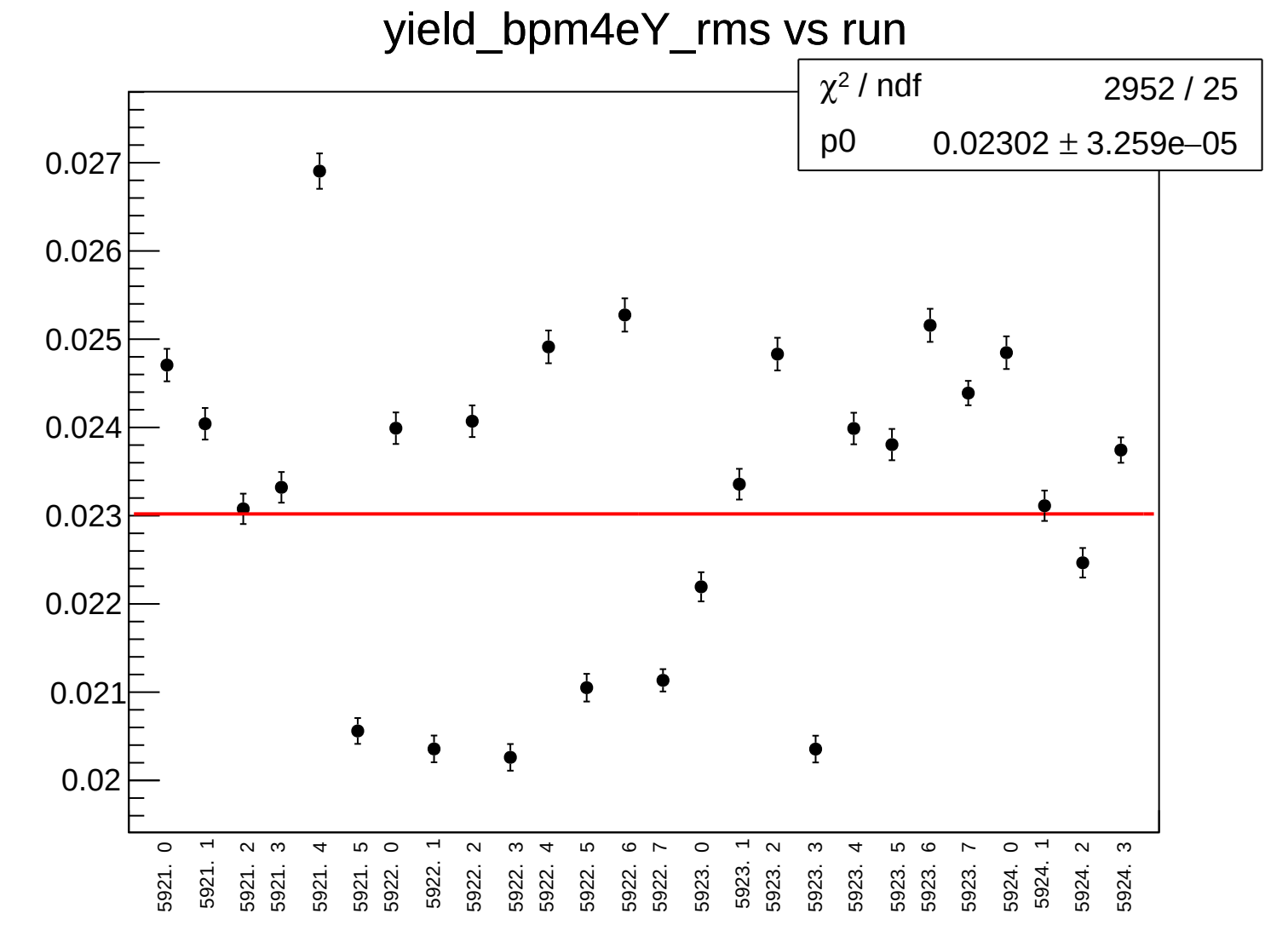

yield_bpm4eX_mean vs run
χ² / ndf 5.918e+04 / 25
p0 −0.2325 ± 2.764e−05
−0.22
−0.23
−0.24
−0.25
−0.26
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −92.99
Std Dev 108.5
60
40
20
0
−20
−40
−60
−80
−100
−120

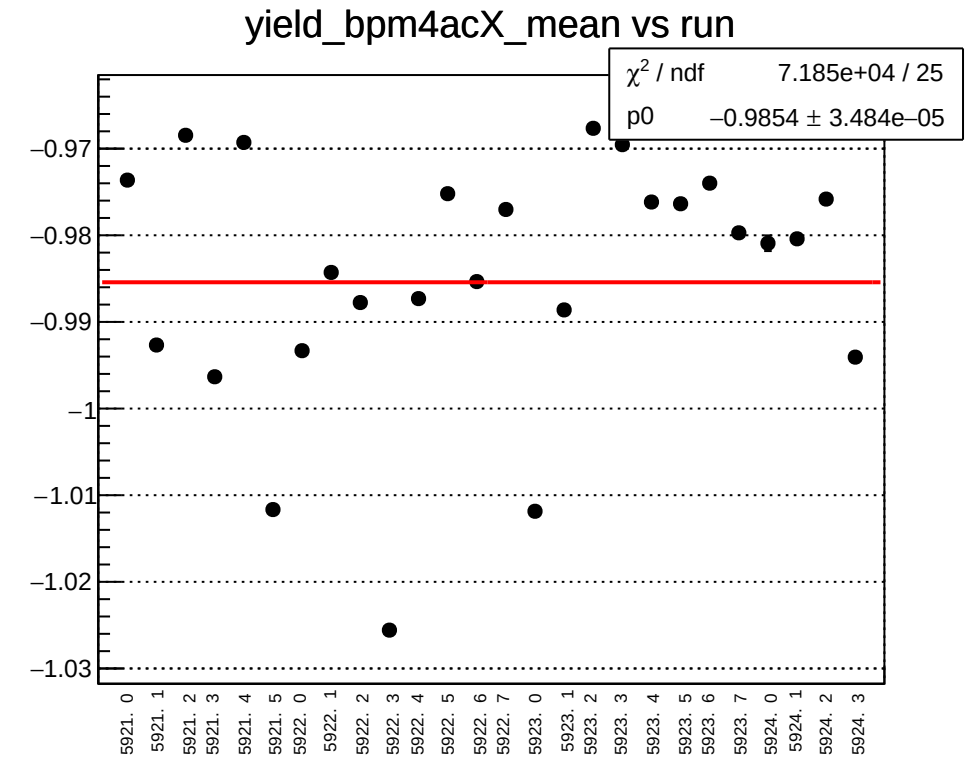

pull1D
Entries 26
Mean 2.606
Std Dev 3.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

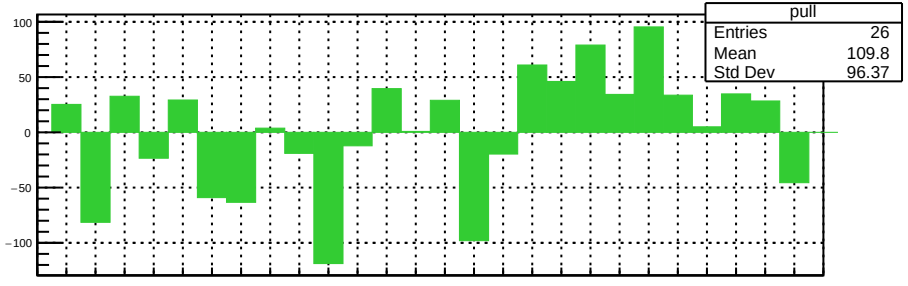

yield_bpm4eX_rms vs run
χ² / ndf 1.2e+05 / 25
p0 0.01208 ± 1.955e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

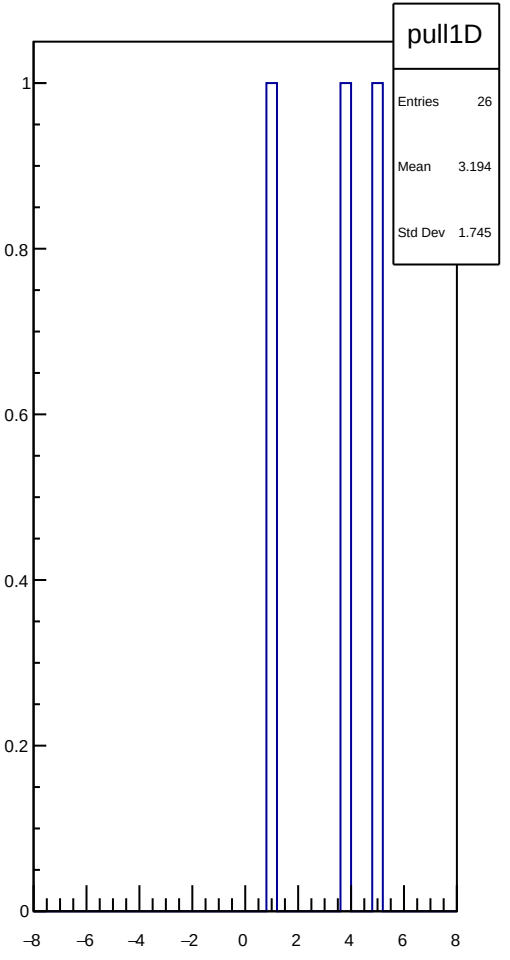

yield_bpm4eY_mean vs run
χ² / ndf 1.749e+04 / 25
p0 0.3672 ± 4.609e−05
0.375
0.37
0.365
0.36
0.355
0.35
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 40.36
Std Dev 17.56
40
20
0
−20
−40
−60

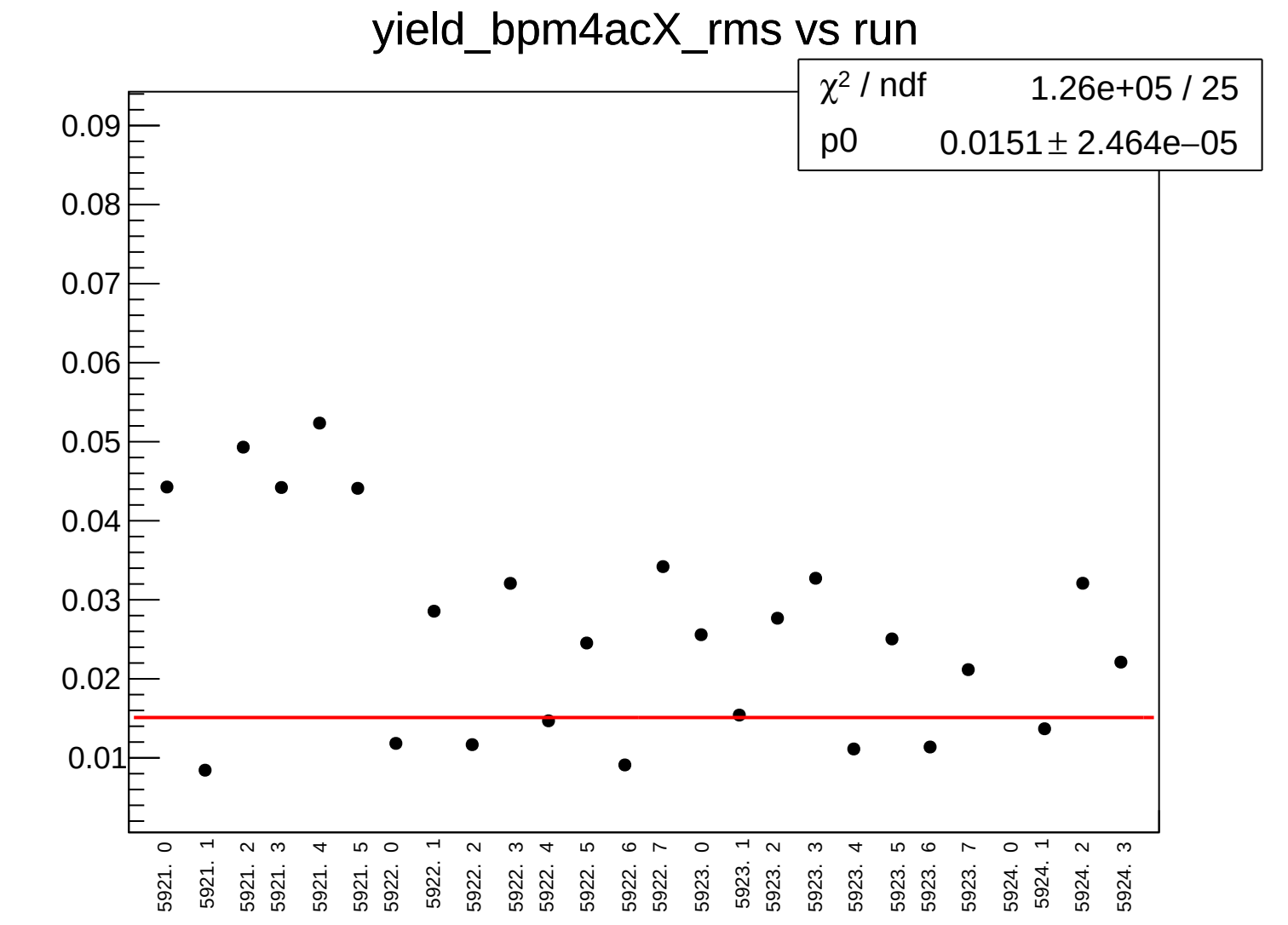

pull1D
Entries 26
Mean −2.509
Std Dev 4.176
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

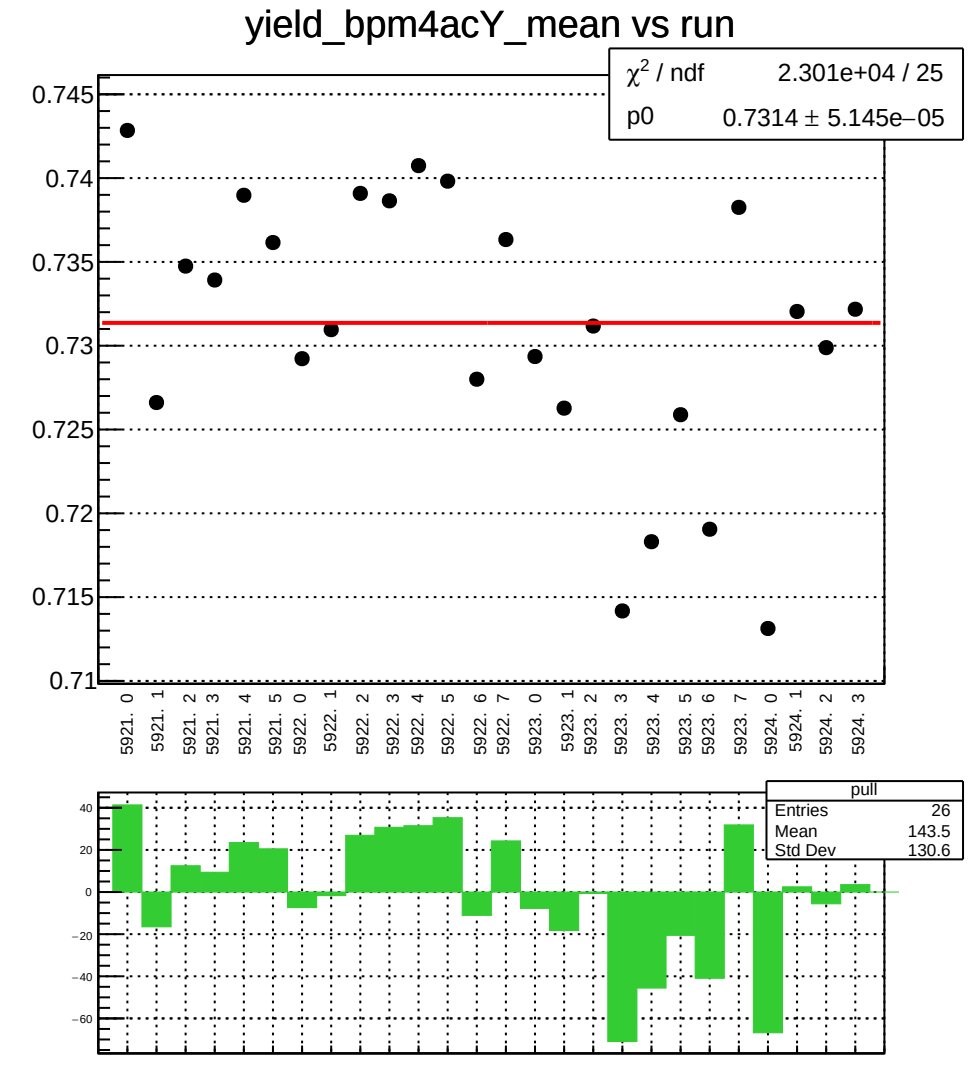

yield_bpm4eY_rms vs run
χ² / ndf 2952 / 25
p0 0.02302 ± 3.259e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

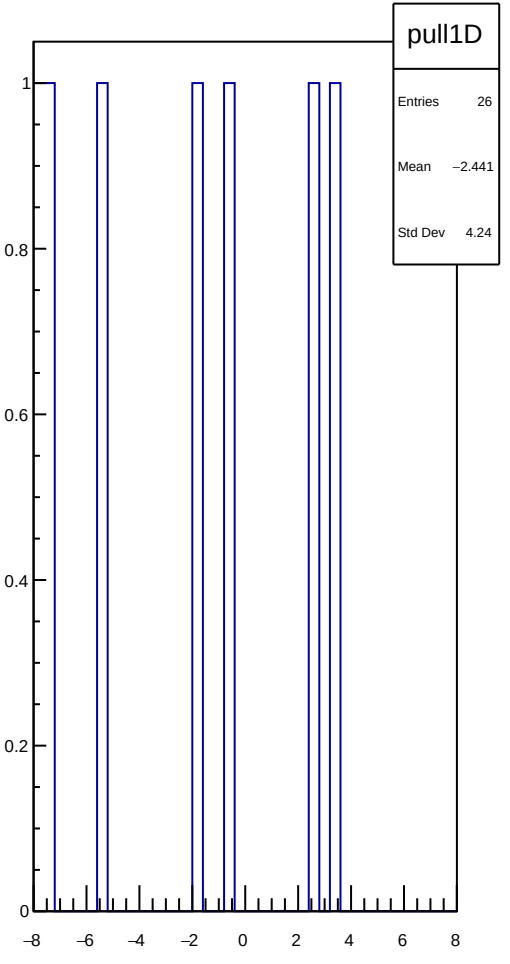

yield_bpm4acX_mean vs run
χ² / ndf 7.185e+04 / 25
p0 −0.9854 ± 3.484e−05
−0.97
−0.98
−0.99
−1
−1.01
−1.02
−1.03
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

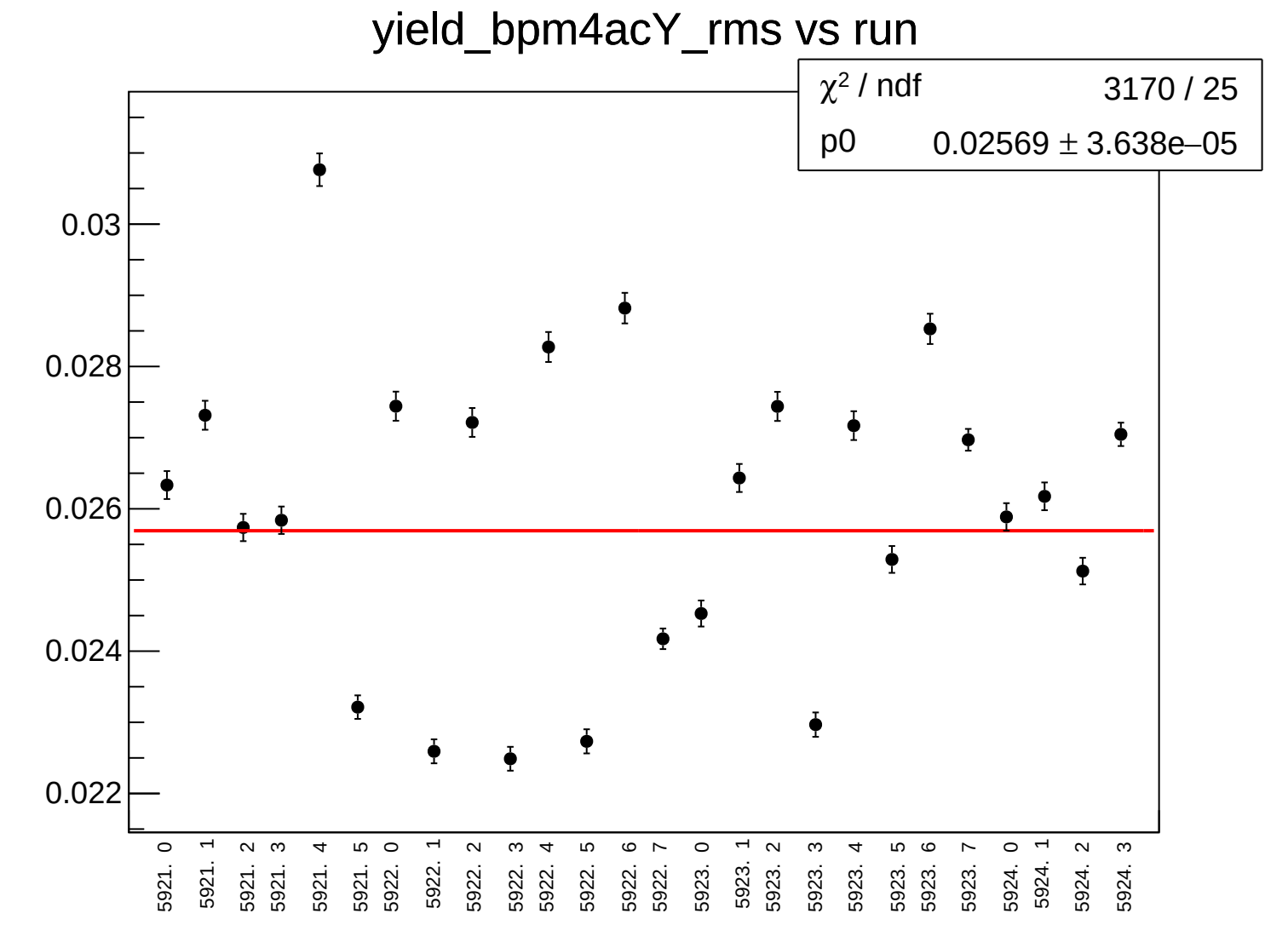

pull
Entries 26
Mean 109.8
Std Dev 96.37
100
50
0
−50
−100

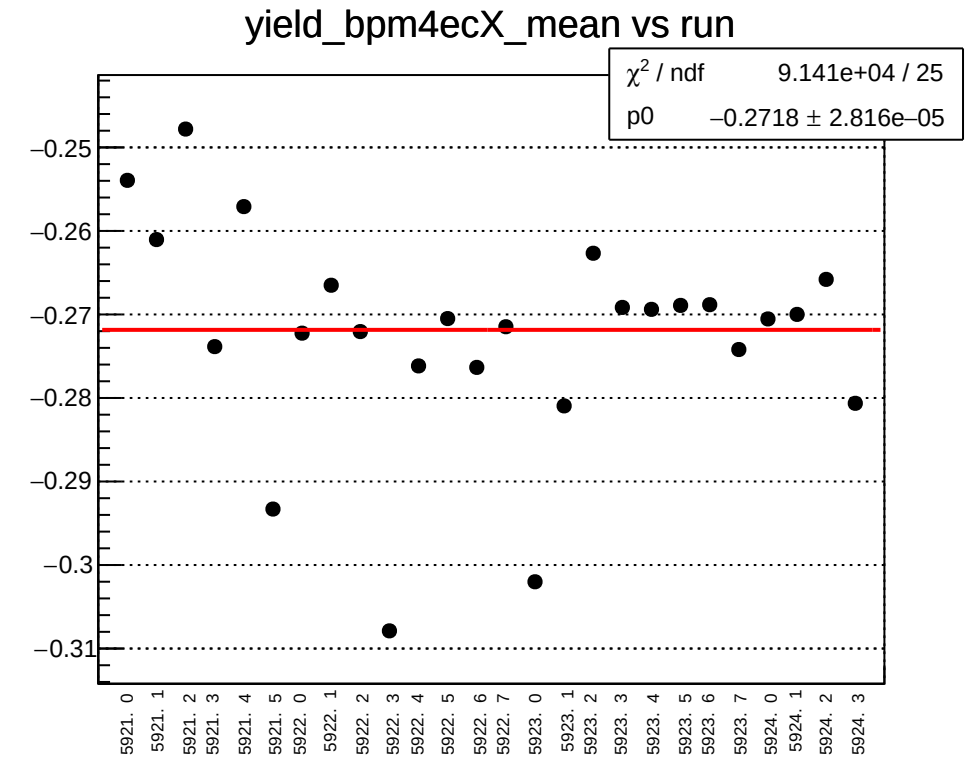

pull1D
Entries 26
Mean 3.194
Std Dev 1.745
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

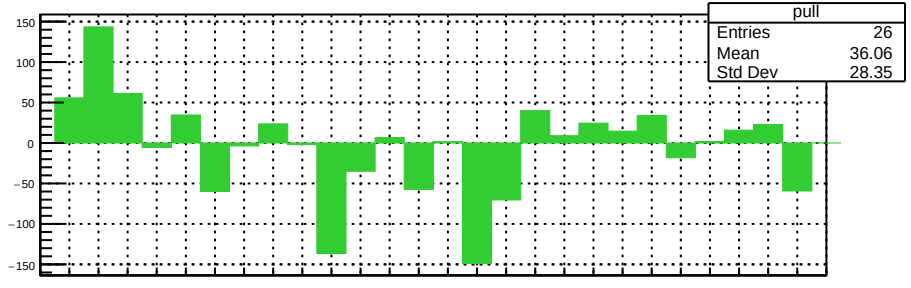

yield_bpm4acX_rms vs run
χ² / ndf 1.26e+05 / 25
p0 0.0151 ± 2.464e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

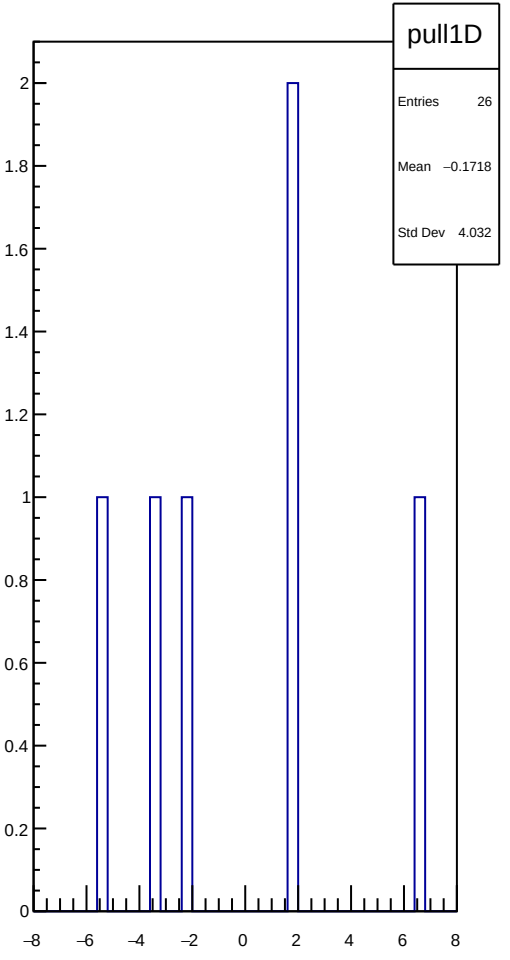

yield_bpm4acY_mean vs run
χ² / ndf 2.301e+04 / 25
p0 0.7314 ± 5.145e−05
0.745
0.74
0.735
0.73
0.725
0.72
0.715
0.71
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 143.5
Std Dev 130.6
40
20
0
−20
−40
−60

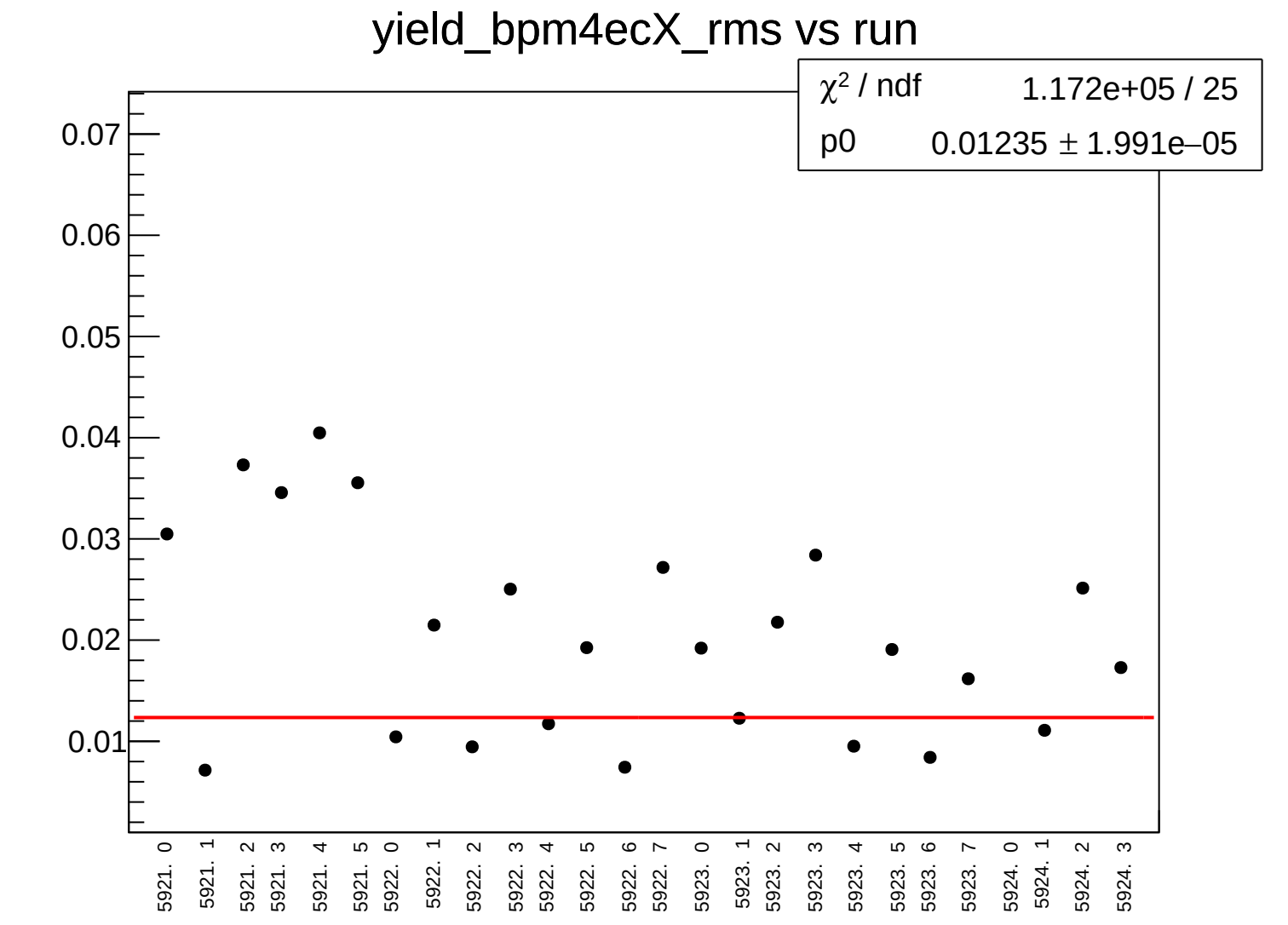

pull1D
Entries 26
Mean −2.441
Std Dev 4.24
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

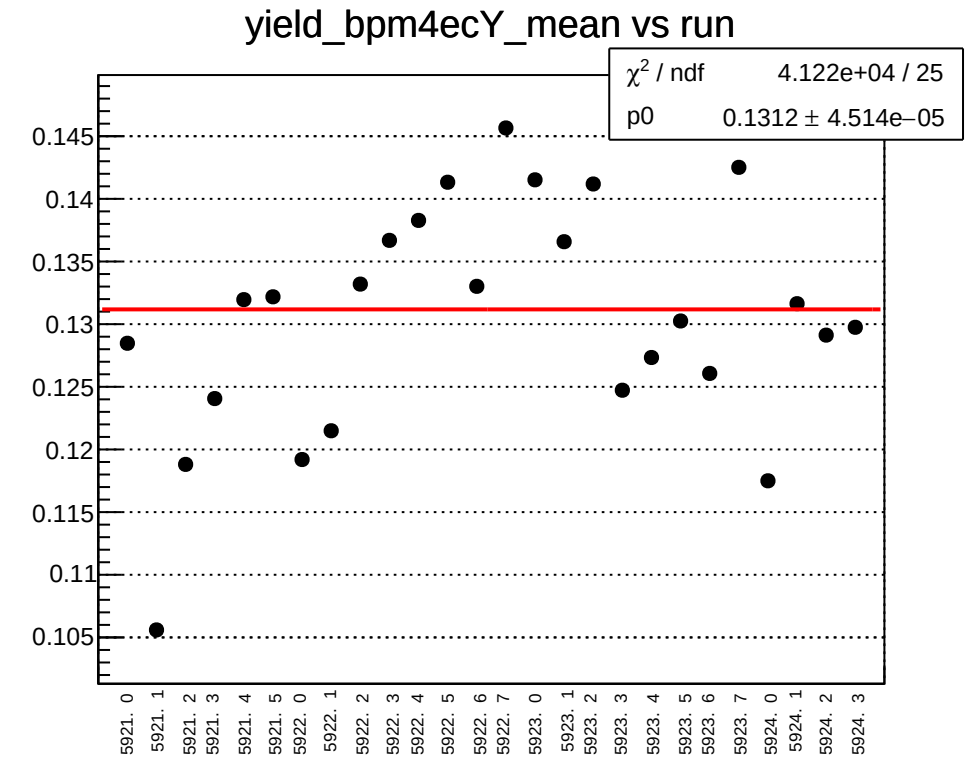

yield_bpm4acY_rms vs run
χ² / ndf 3170 / 25
p0 0.02569 ± 3.638e–05
0.03
0.028
0.026
0.024
0.022
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

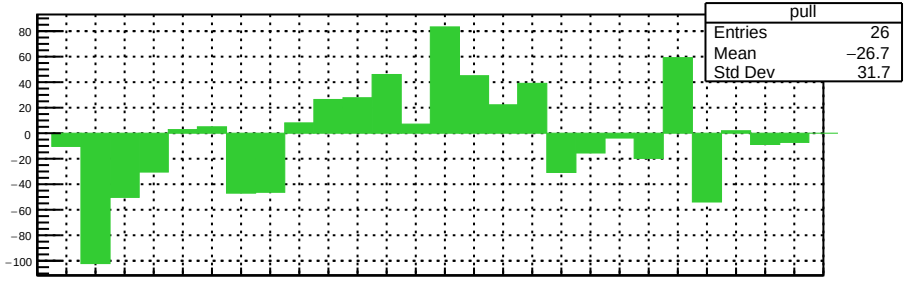

yield_bpm4ecX_mean vs run
χ² / ndf 9.141e+04 / 25
p0 −0.2718 ± 2.816e−05
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

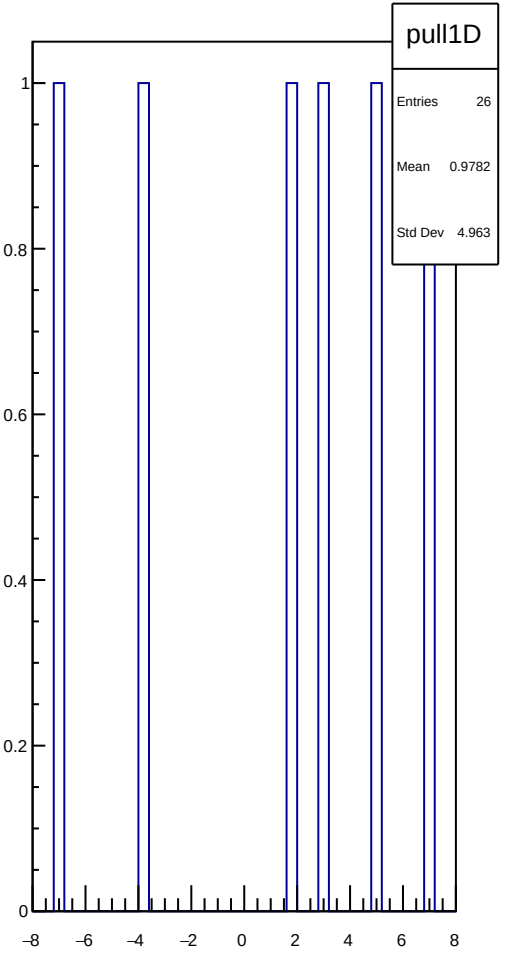

pull
Entries 26
Mean 36.06
Std Dev 28.35
150
100
50
0
−50
−100
−150

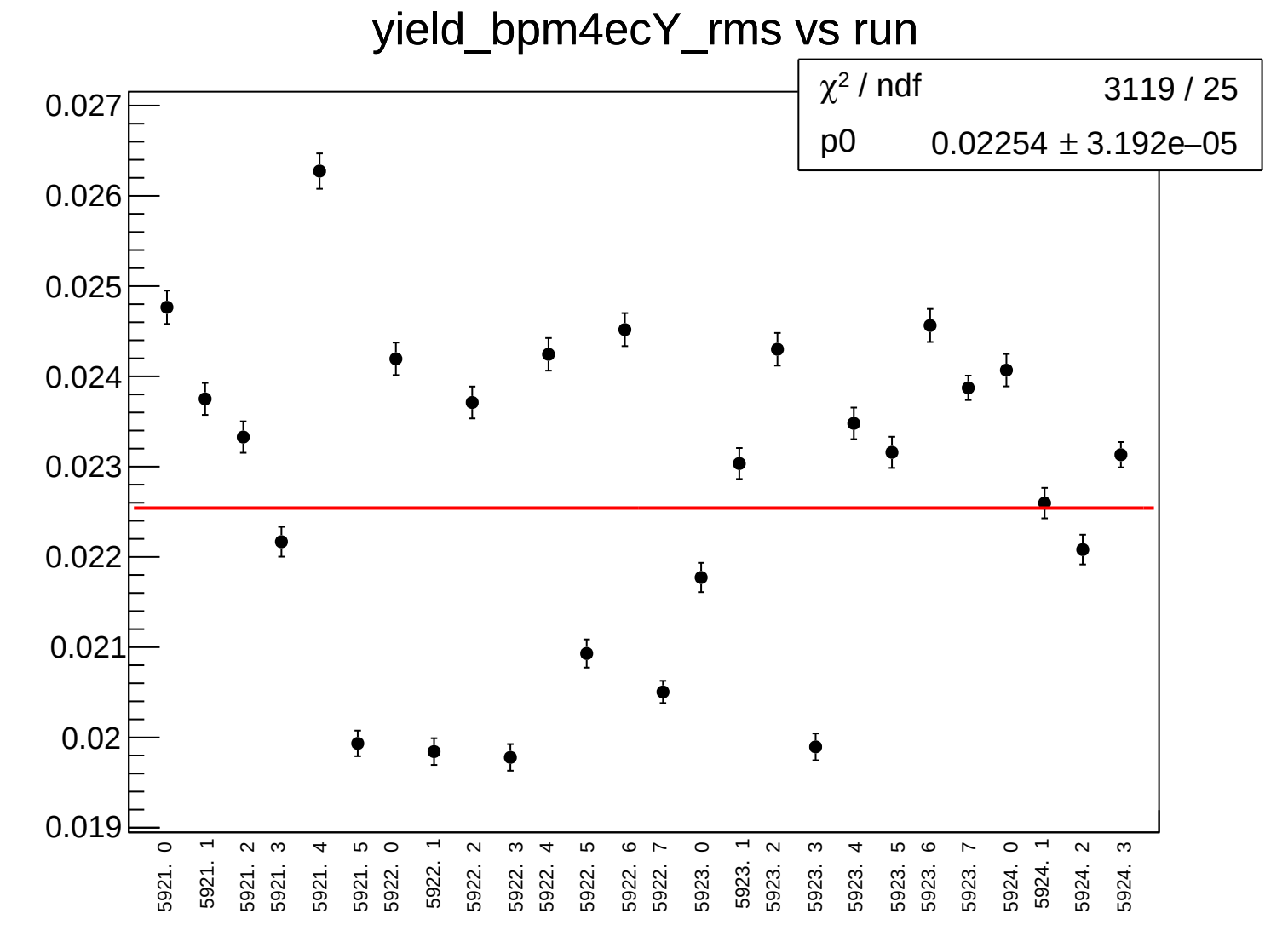

pull1D
Entries 26
Mean −0.1718
Std Dev 4.032
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

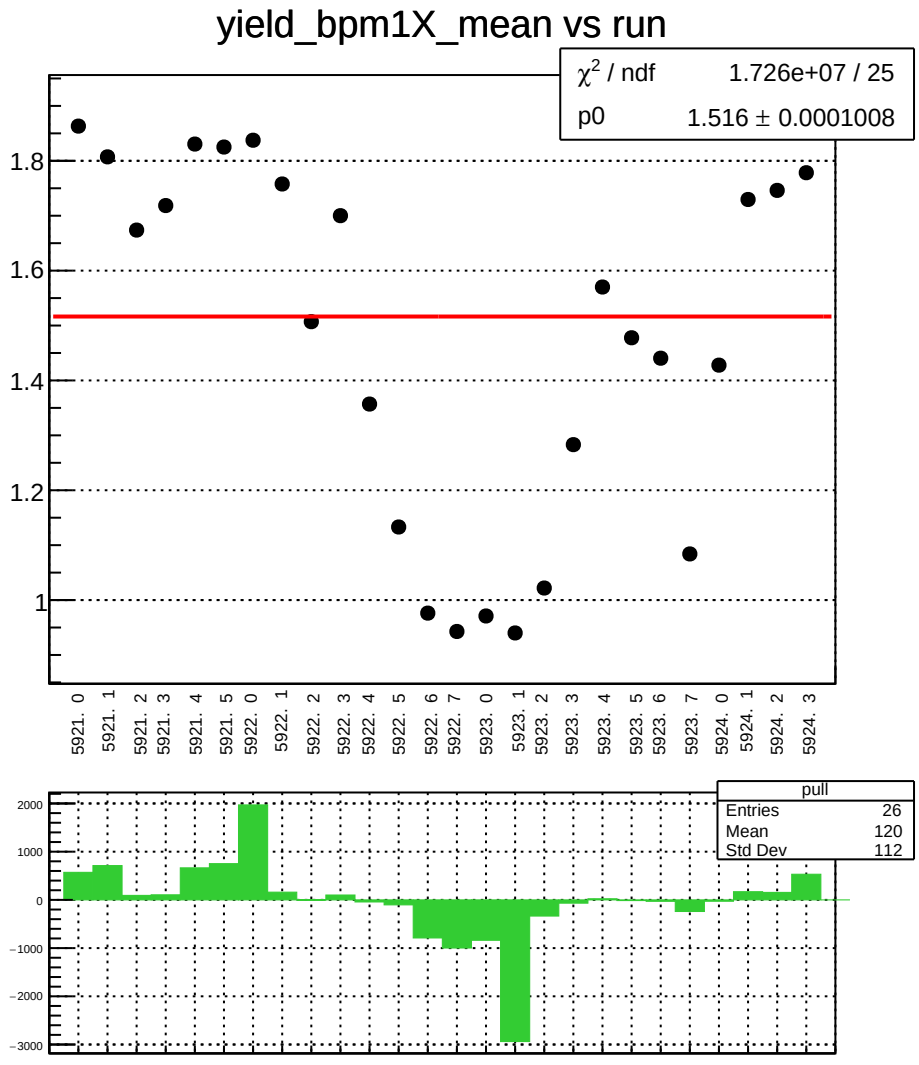

yield_bpm4ecX_rms vs run
χ² / ndf 1.172e+05 / 25
p0 0.01235 ± 1.991e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

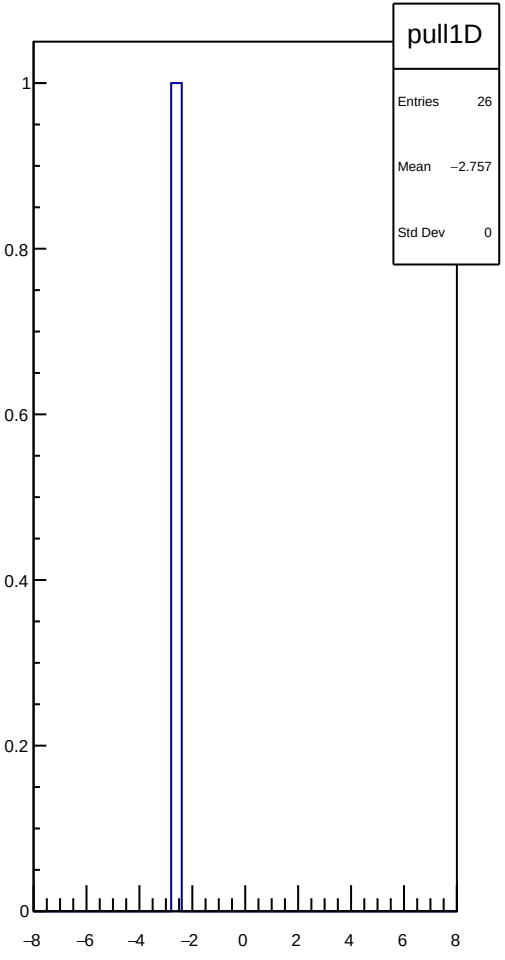

yield_bpm4ecY_mean vs run
χ² / ndf 4.122e+04 / 25
p0 0.1312 ± 4.514e−05
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

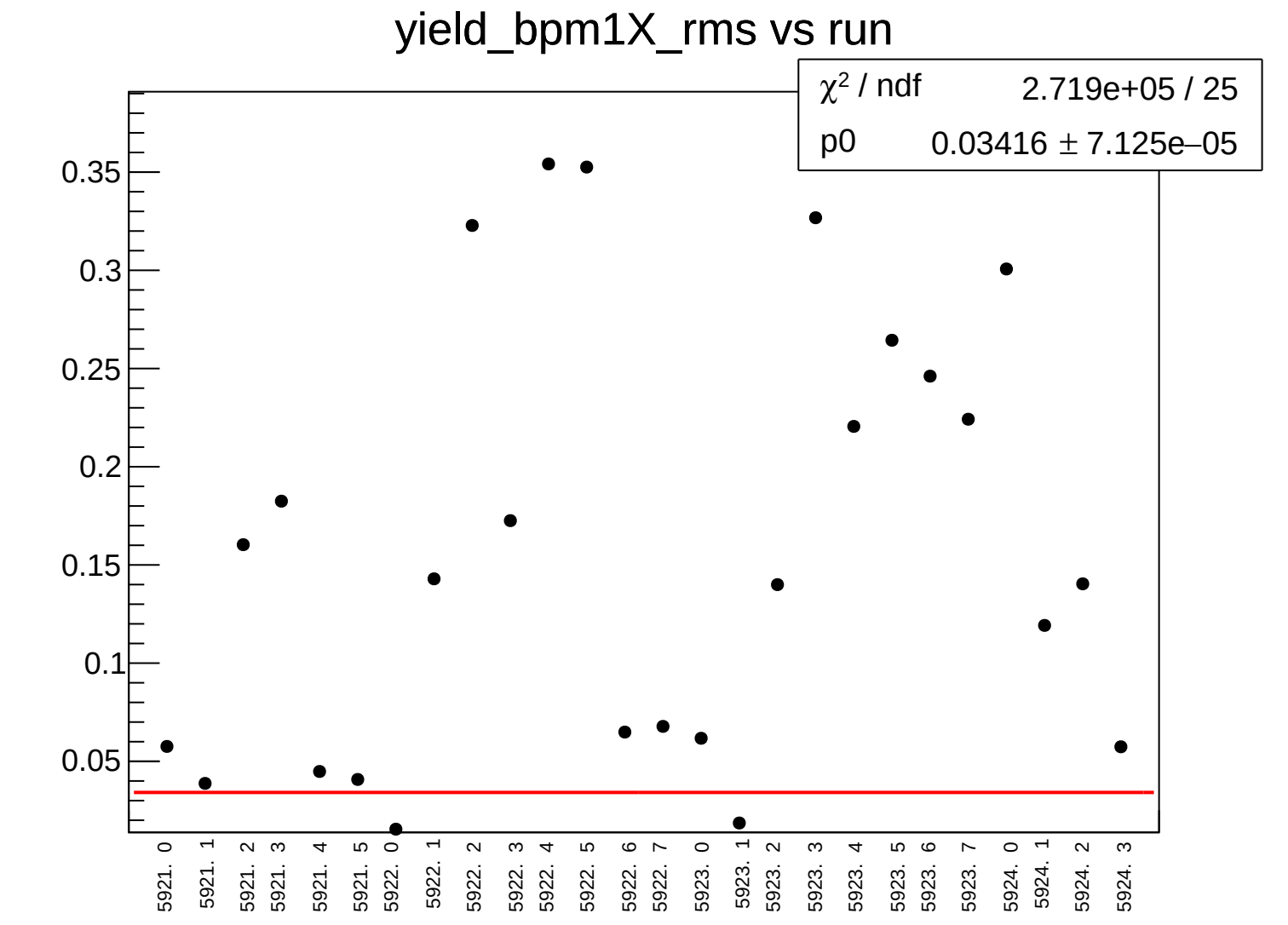

pull
Entries 26
Mean −26.7
Std Dev 31.7
80
60
40
20
0
−20
−40
−60
−80
−100

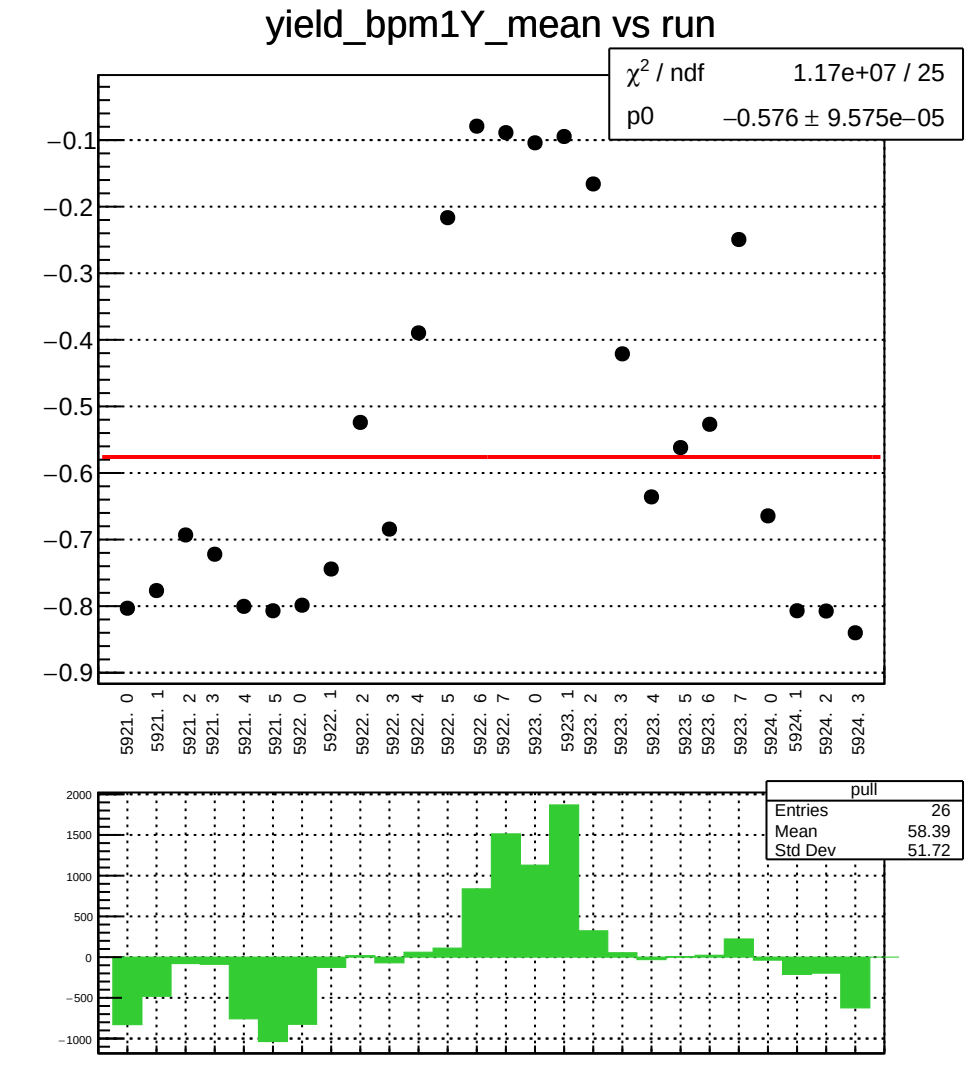

pull1D
Entries 26
Mean 0.9782
Std Dev 4.963
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

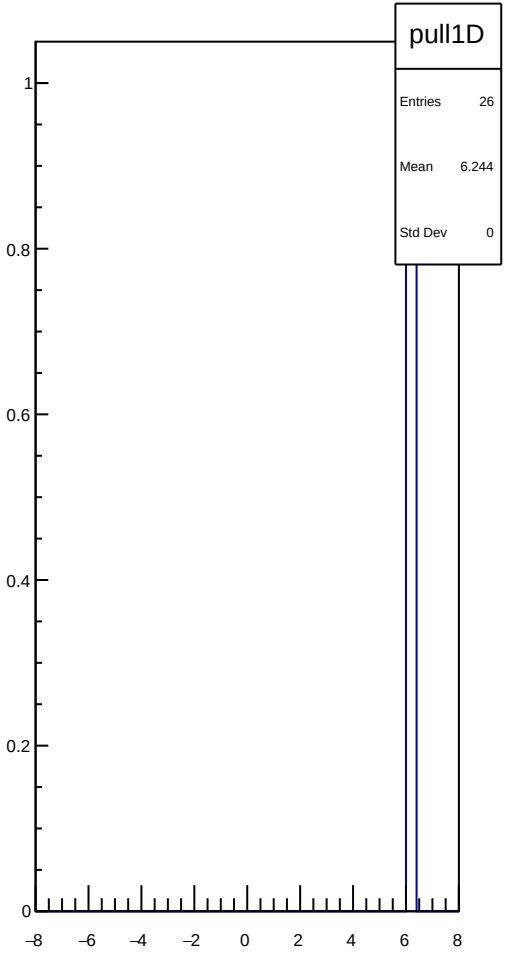

yield_bpm4ecY_rms vs run
χ² / ndf 3119 / 25
p0 0.02254 ± 3.192e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

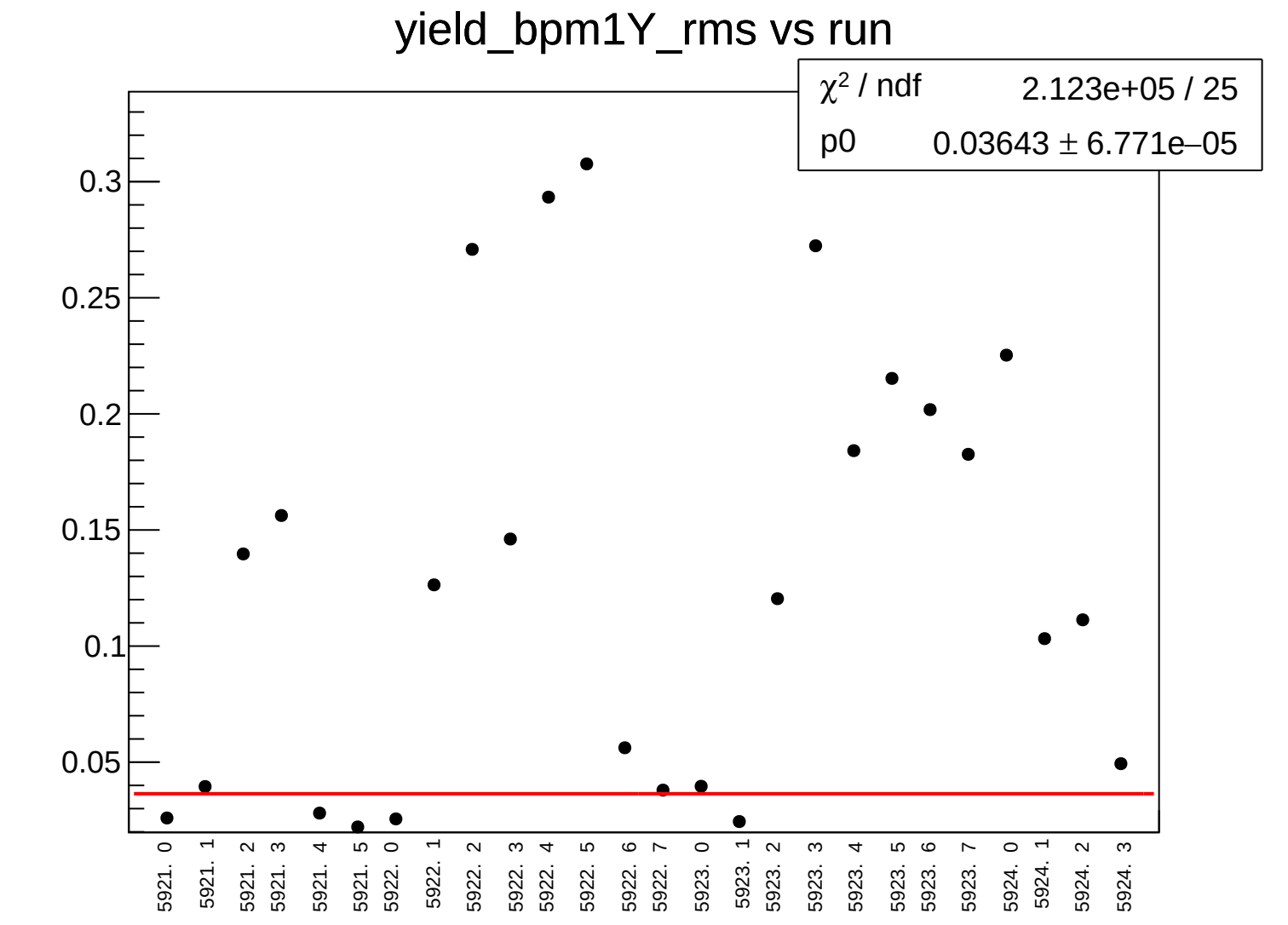

yield_bpm1X_mean vs run
χ² / ndf 1.726e+07 / 25
p0 1.516 ± 0.0001008
1.8
1.6
1.4
1.2
1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 120
Std Dev 112
2000
1000
0
−1000
−2000
−3000

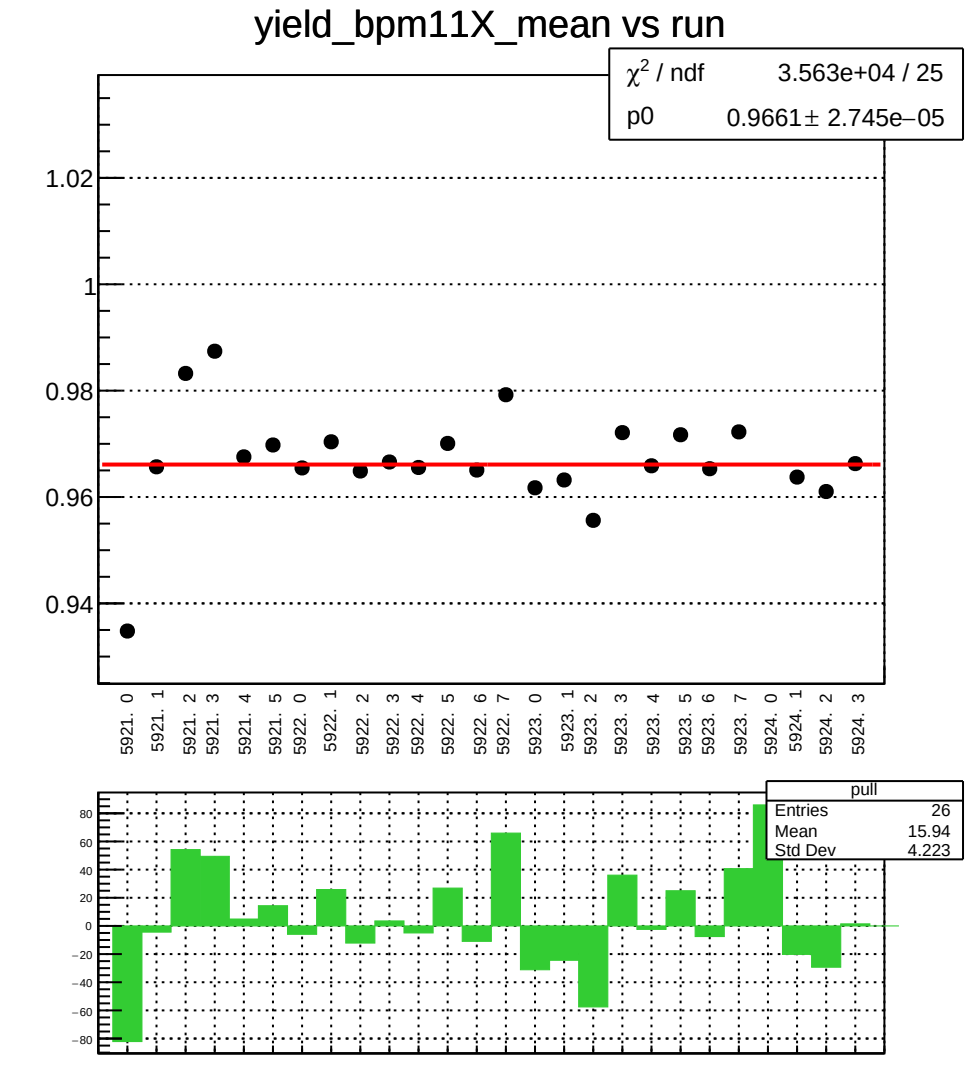

pull1D
Entries 26
Mean −2.757
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

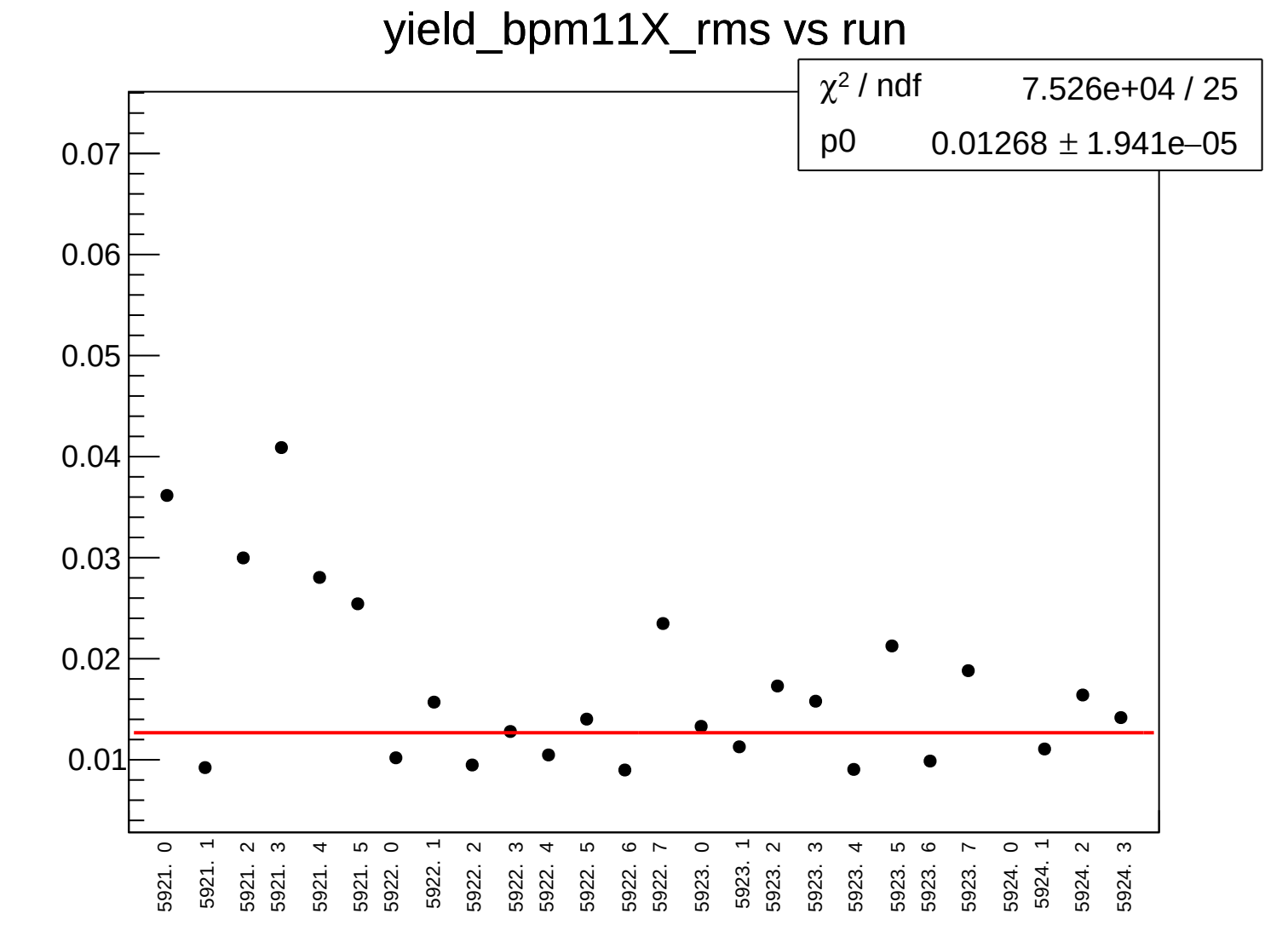

yield_bpm1X_rms vs run
χ² / ndf 2.719e+05 / 25
p0 0.03416 ± 7.125e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

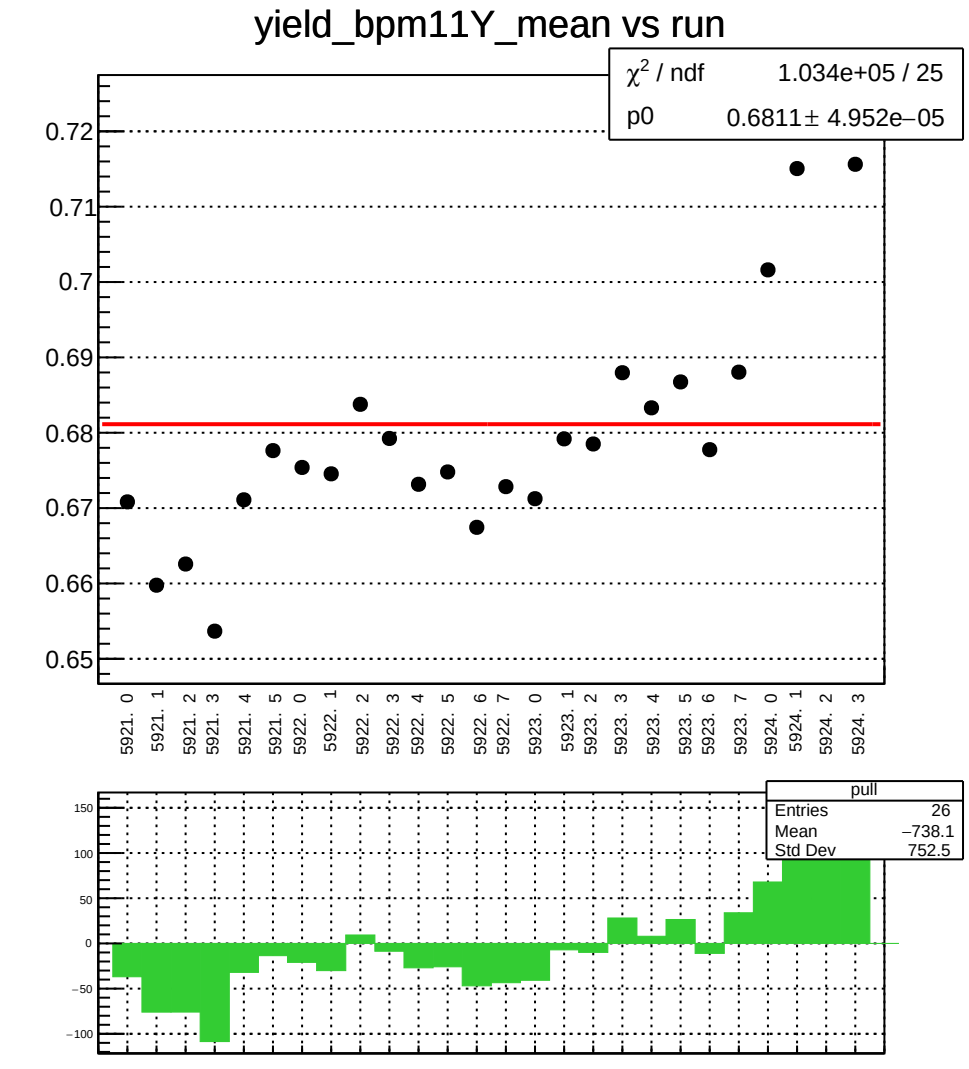

yield_bpm1Y_mean vs run
χ² / ndf 1.17e+07 / 25
p0 −0.576 ± 9.575e−05
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 58.39
Std Dev 51.72
2000
1500
1000
500
0
−500
−1000

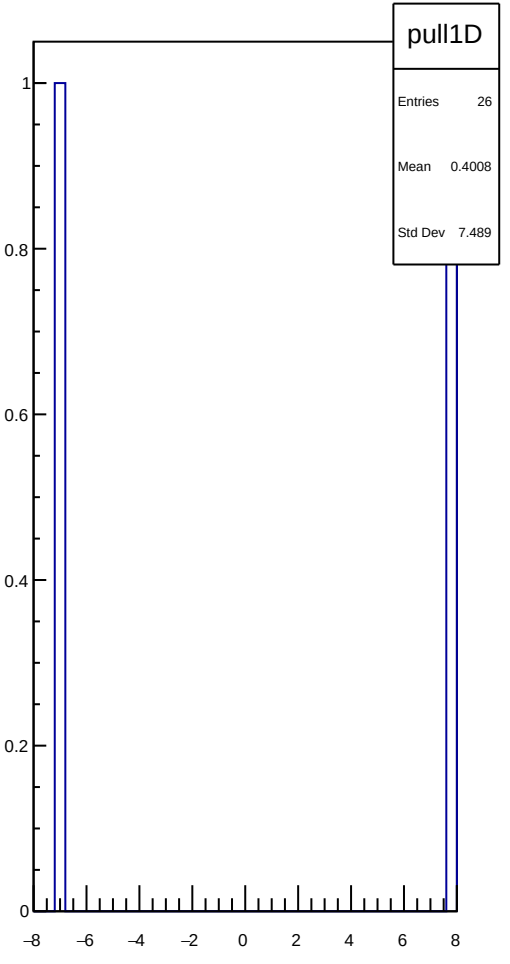

pull1D
Entries 26
Mean 6.244
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

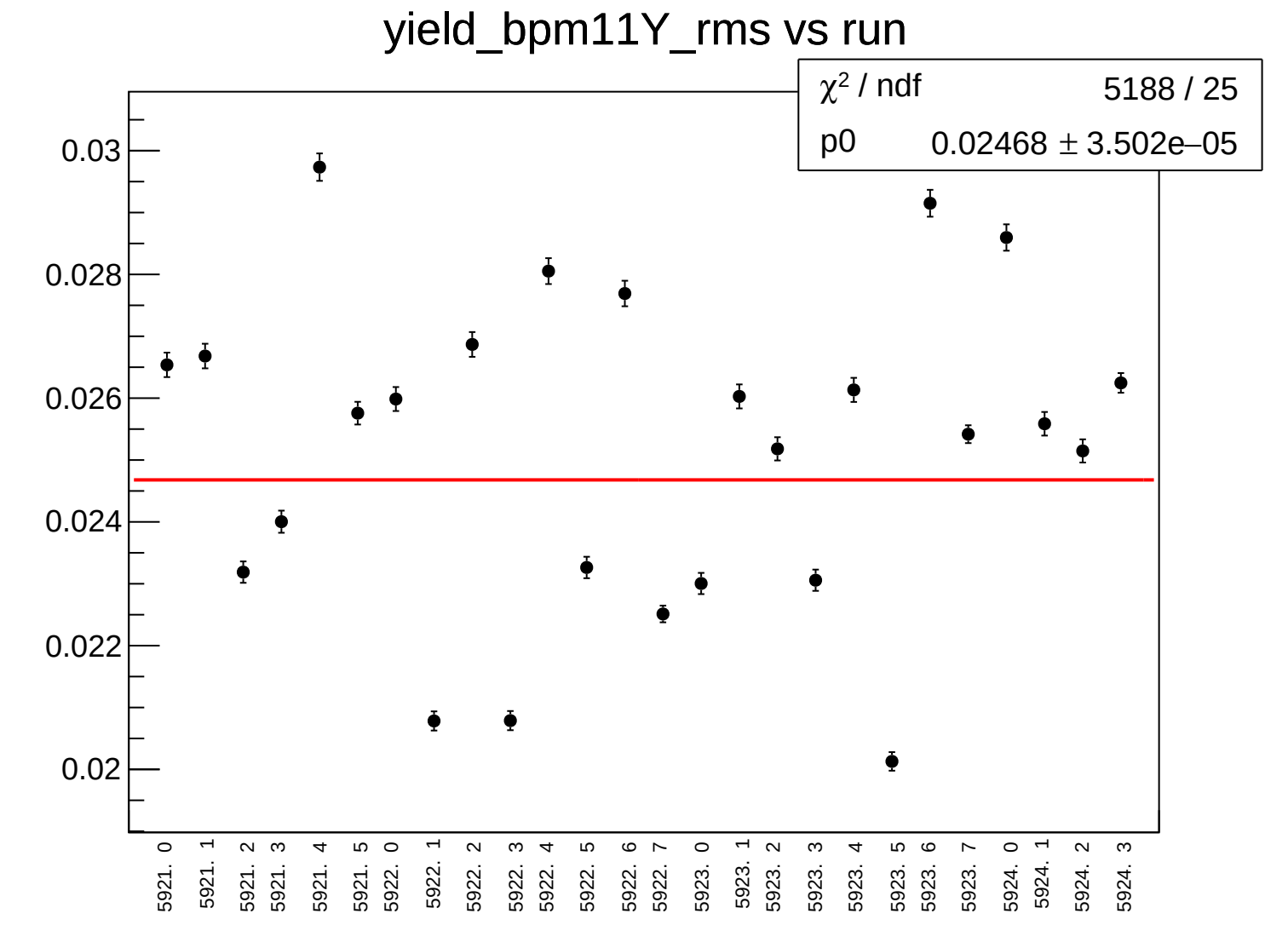

yield_bpm1Y_rms vs run
χ² / ndf 2.123e+05 / 25
p0 0.03643 ± 6.771e−05
0.3
0.25
0.2
0.15
0.1
0.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

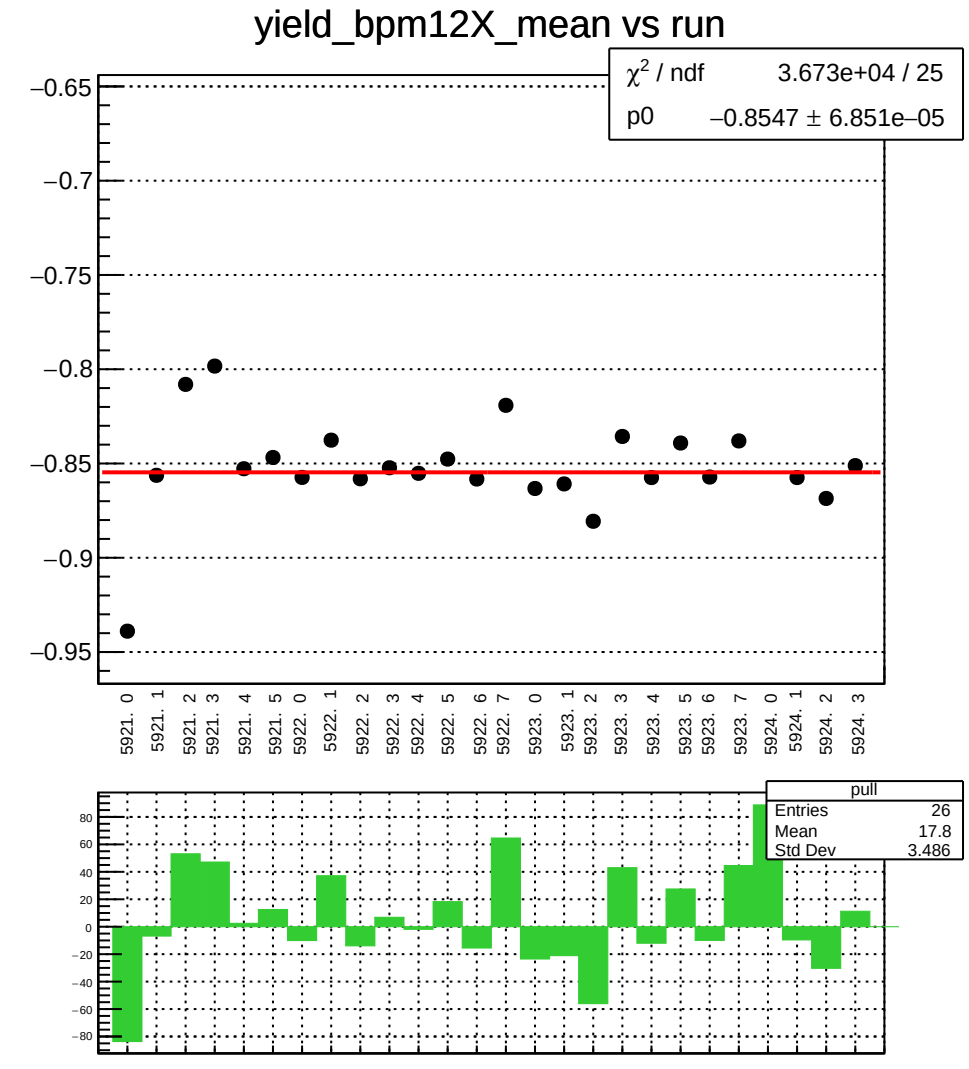

yield_bpm11X_mean vs run
χ² / ndf 3.563e+04 / 25
p0 0.9661 ± 2.745e−05
1.02
1
0.98
0.96
0.94
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 15.94
Std Dev 4.223
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 26
Mean −1.923
Std Dev 4.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

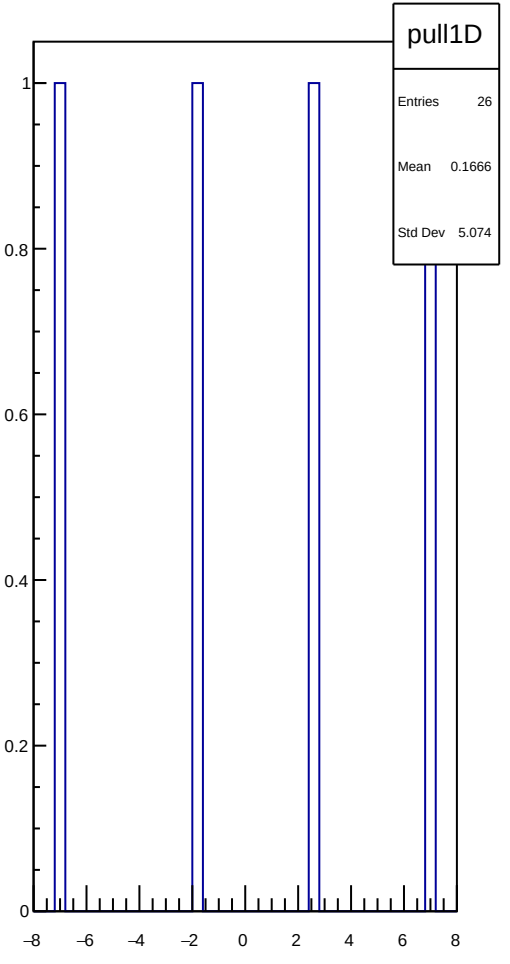

yield_bpm11X_rms vs run
χ² / ndf 7.526e+04 / 25
p0 0.01268 ± 1.941e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

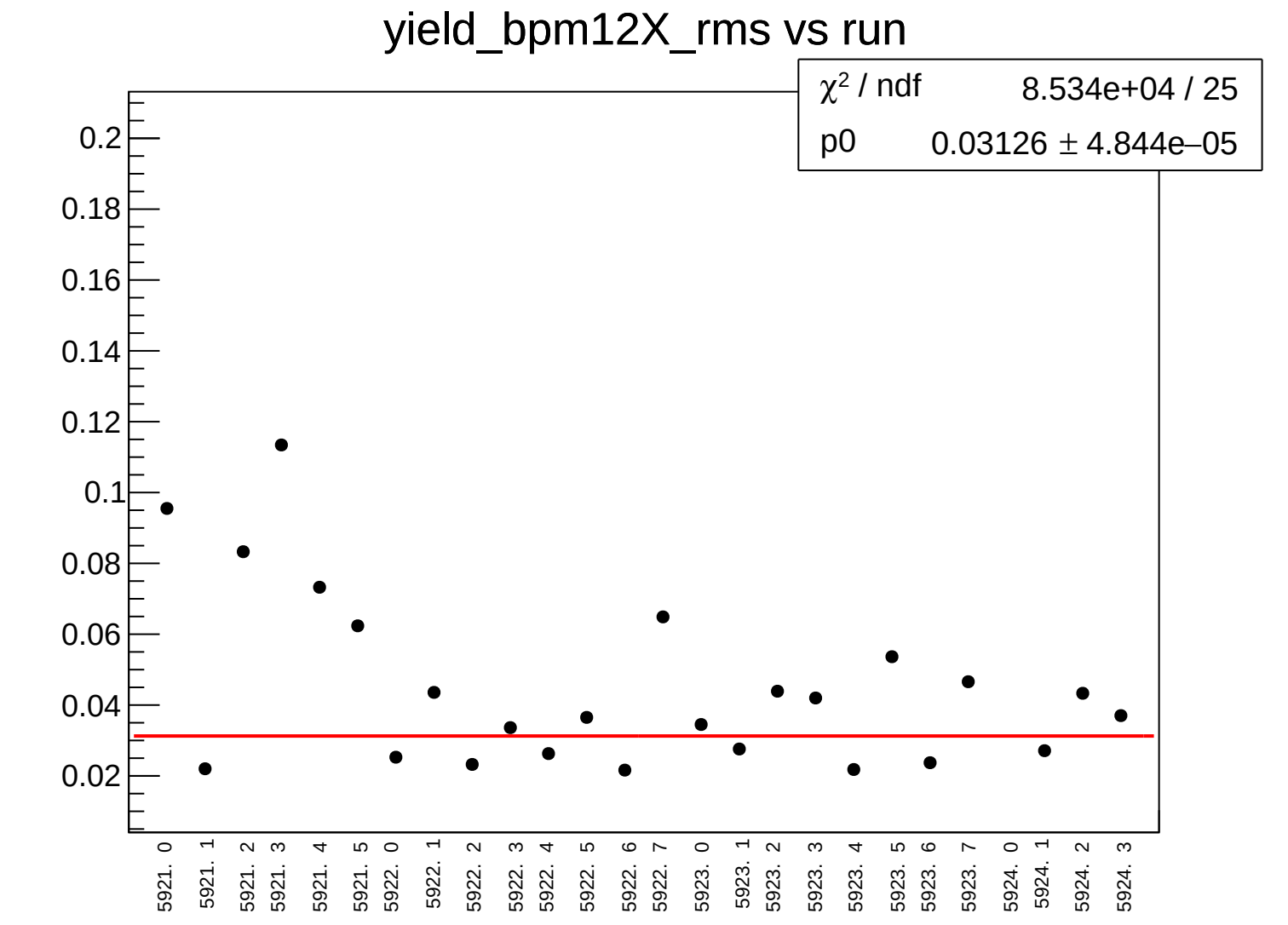

yield_bpm11Y_mean vs run
χ² / ndf 1.034e+05 / 25
p0 0.6811 ± 4.952e−05
0.72
0.71
0.7
0.69
0.68
0.67
0.66
0.65
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −738.1
Std Dev 752.5
150
100
50
0
−50
−100

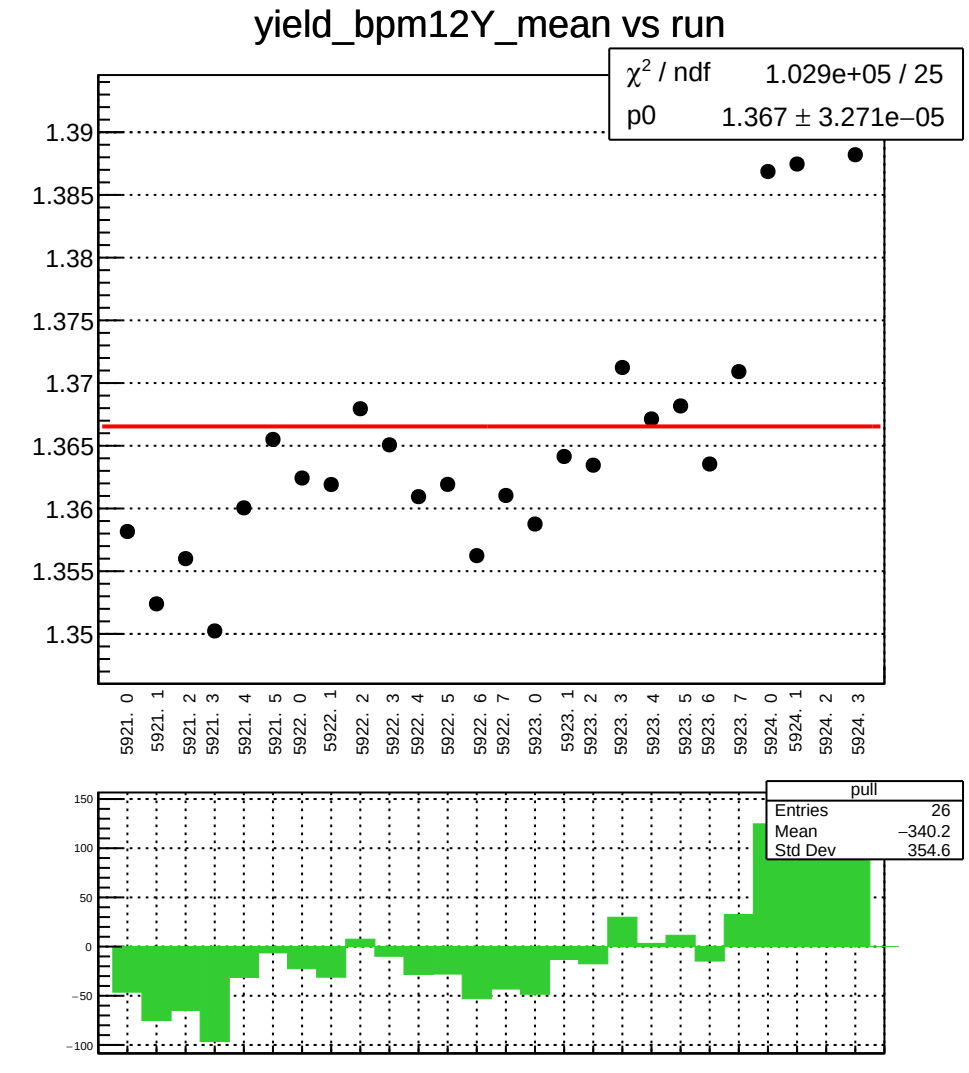

pull1D
Entries 26
Mean 0.4008
Std Dev 7.489
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

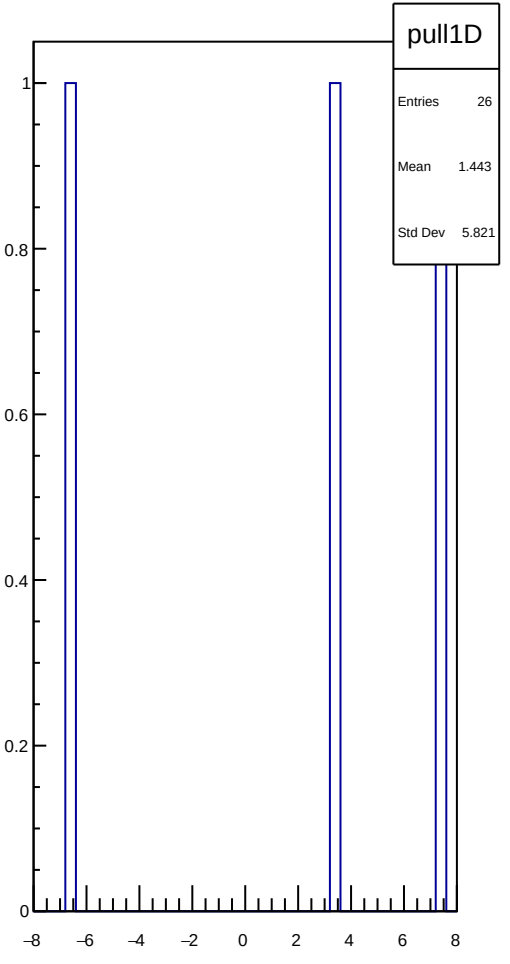

yield_bpm11Y_rms vs run
χ² / ndf 5188 / 25
p0 0.02468 ± 3.502e–05
0.03
0.028
0.026
0.024
0.022
0.02
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

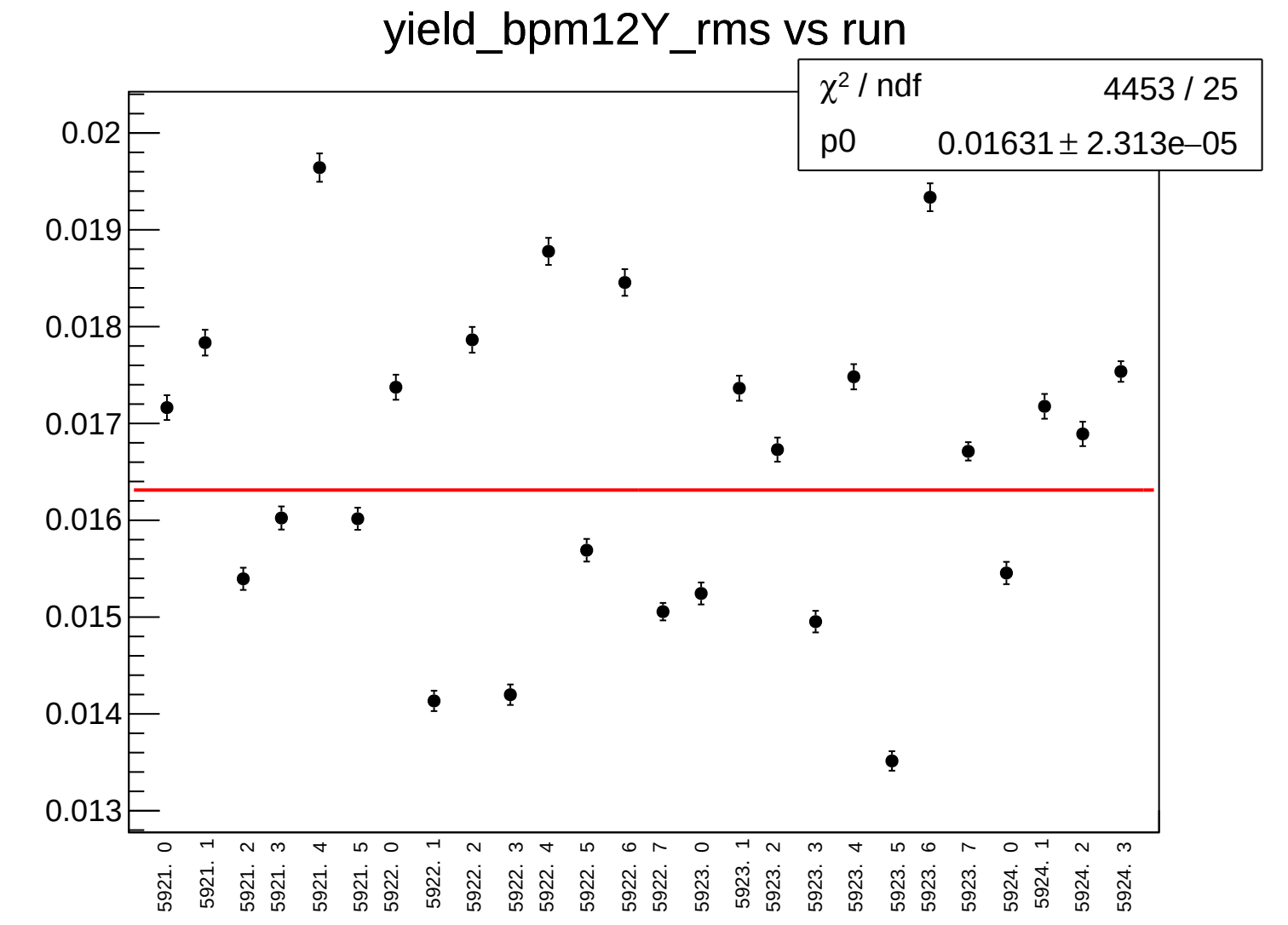

yield_bpm12X_mean vs run
χ² / ndf 3.673e+04 / 25
p0 −0.8547 ± 6.851e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 17.8
Std Dev 3.486
80
60
40
20
0
−20
−40
−60
−80

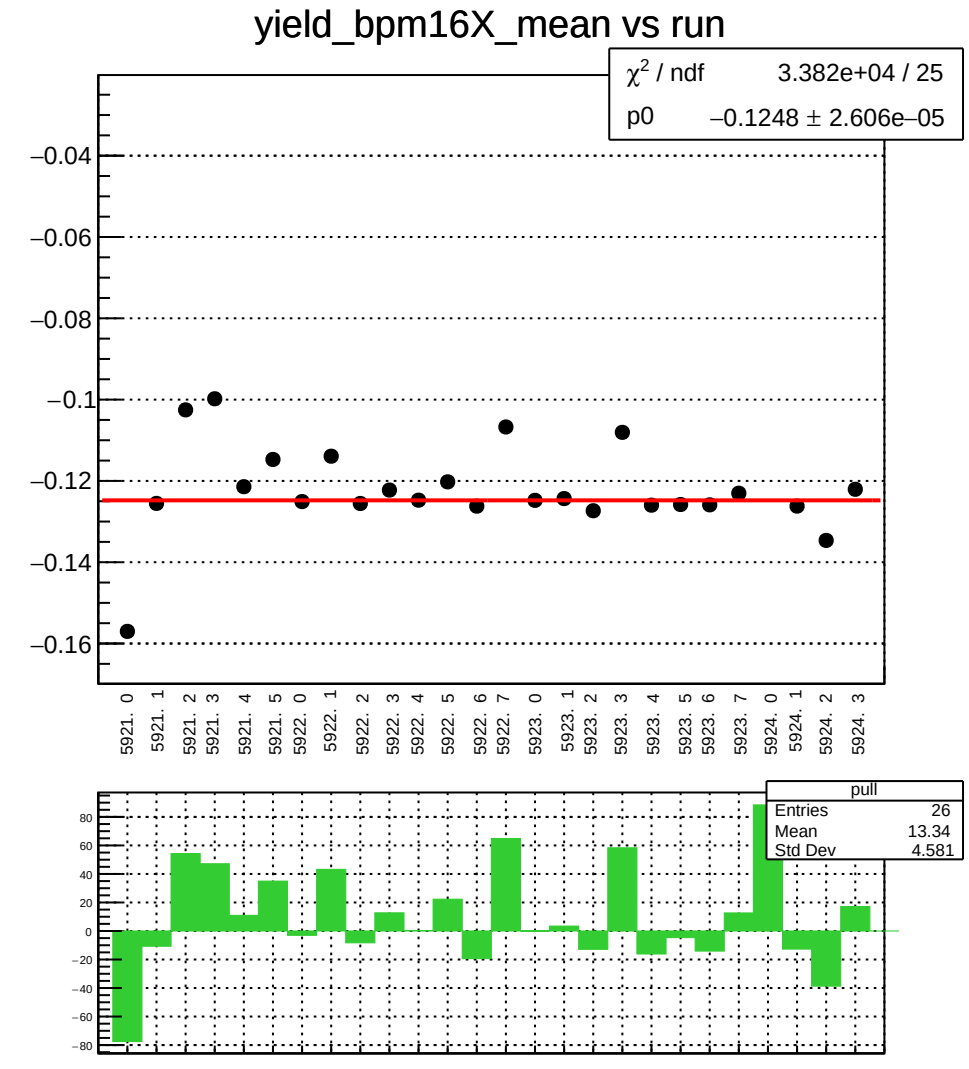

pull1D
Entries 26
Mean 0.1666
Std Dev 5.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

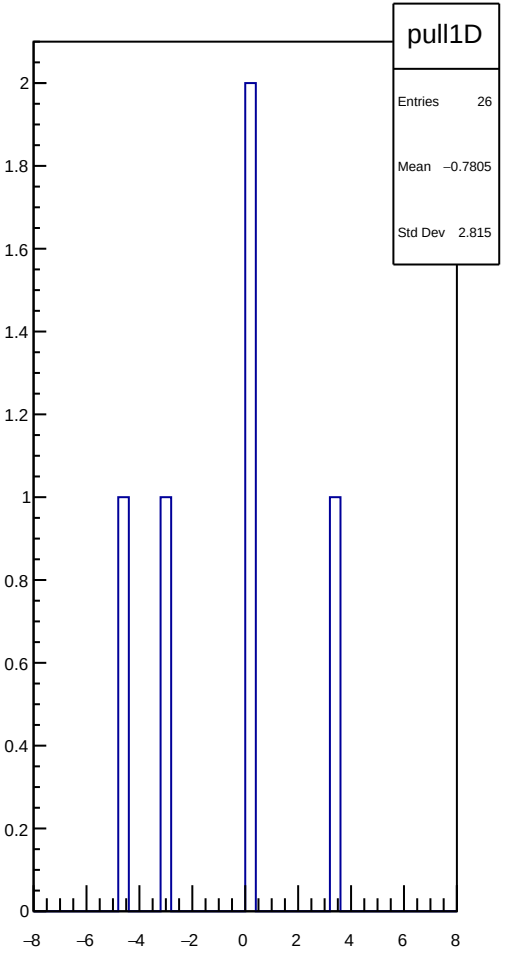

yield_bpm12X_rms vs run
χ² / ndf 8.534e+04 / 25
p0 0.03126 ± 4.844e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

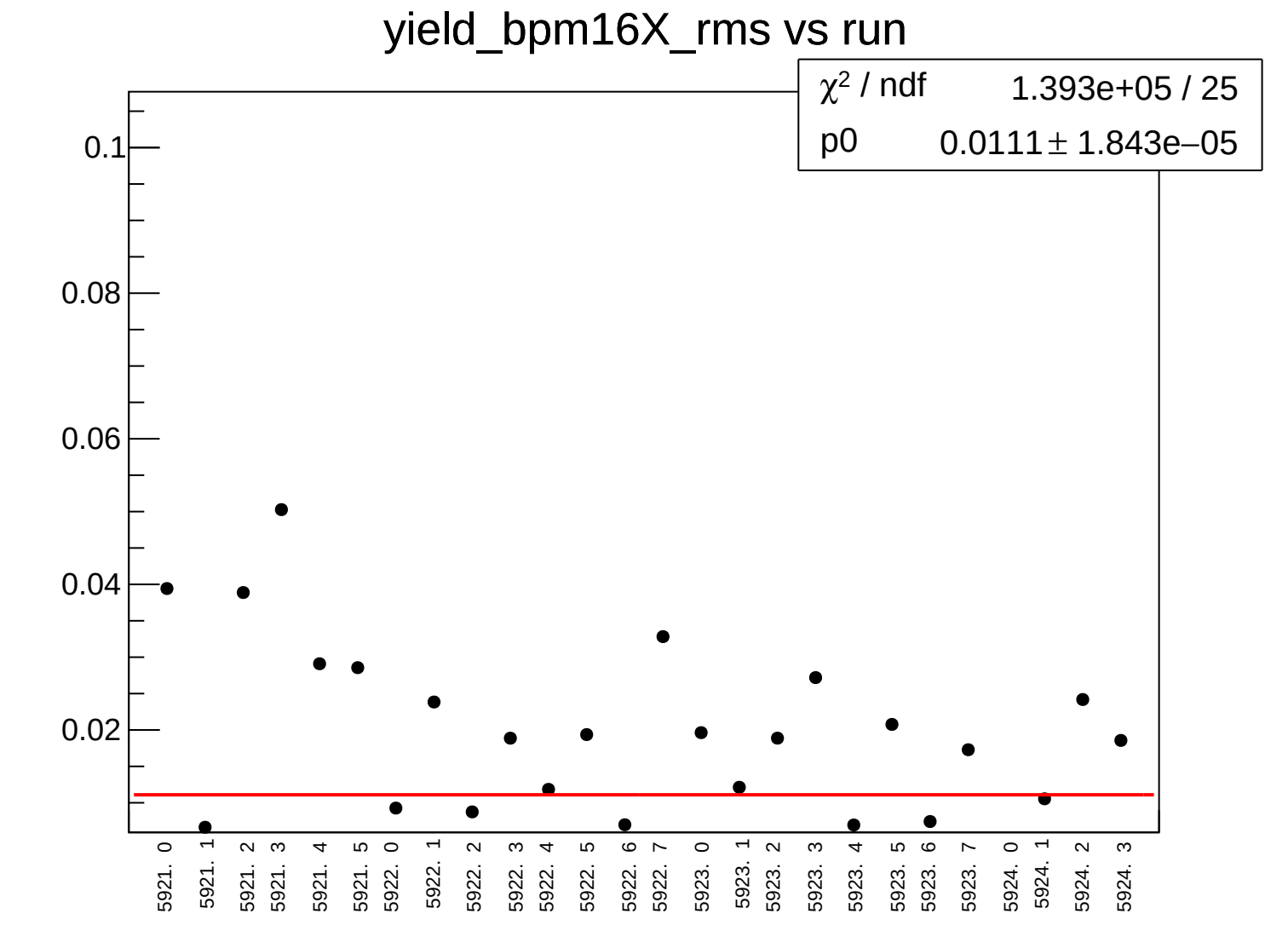

yield_bpm12Y_mean vs run
χ² / ndf 1.029e+05 / 25
p0 1.367 ± 3.271e−05
1.39
1.385
1.38
1.375
1.37
1.365
1.36
1.355
1.35
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −340.2
Std Dev 354.6
150
100
50
0
−50
−100

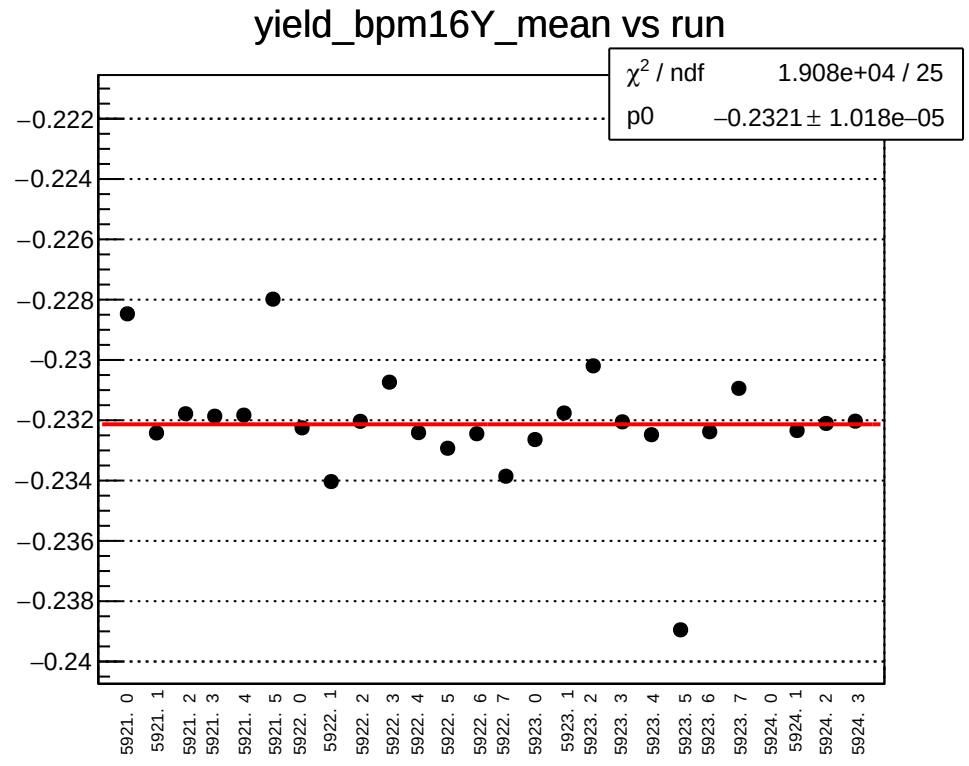

pull1D
Entries 26
Mean 1.443
Std Dev 5.821
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

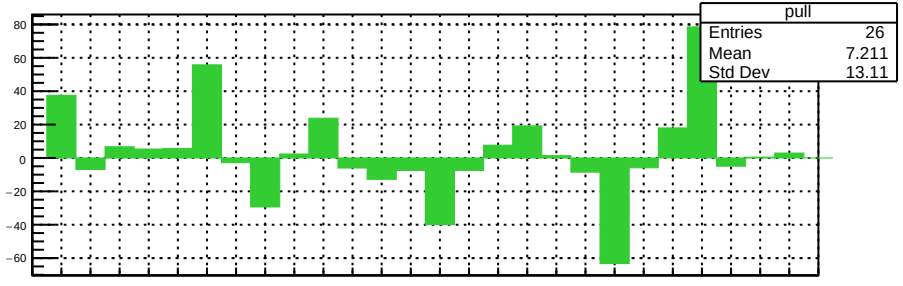

yield_bpm12Y_rms vs run
χ² / ndf 4453 / 25
p0 0.01631 ± 2.313e–05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

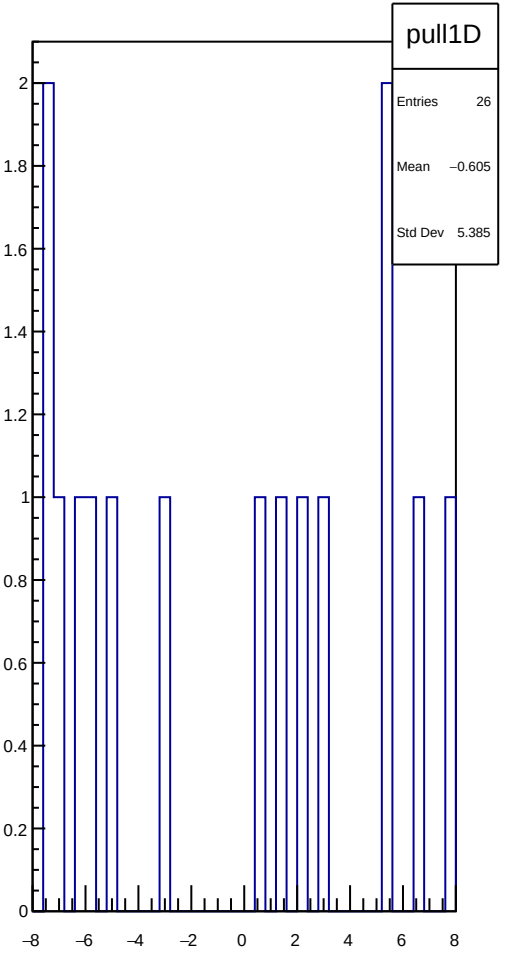

yield_bpm16X_mean vs run
χ² / ndf 3.382e+04 / 25
p0 −0.1248 ± 2.606e−05
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 13.34
Std Dev 4.581
80
60
40
20
0
−20
−40
−60
−80

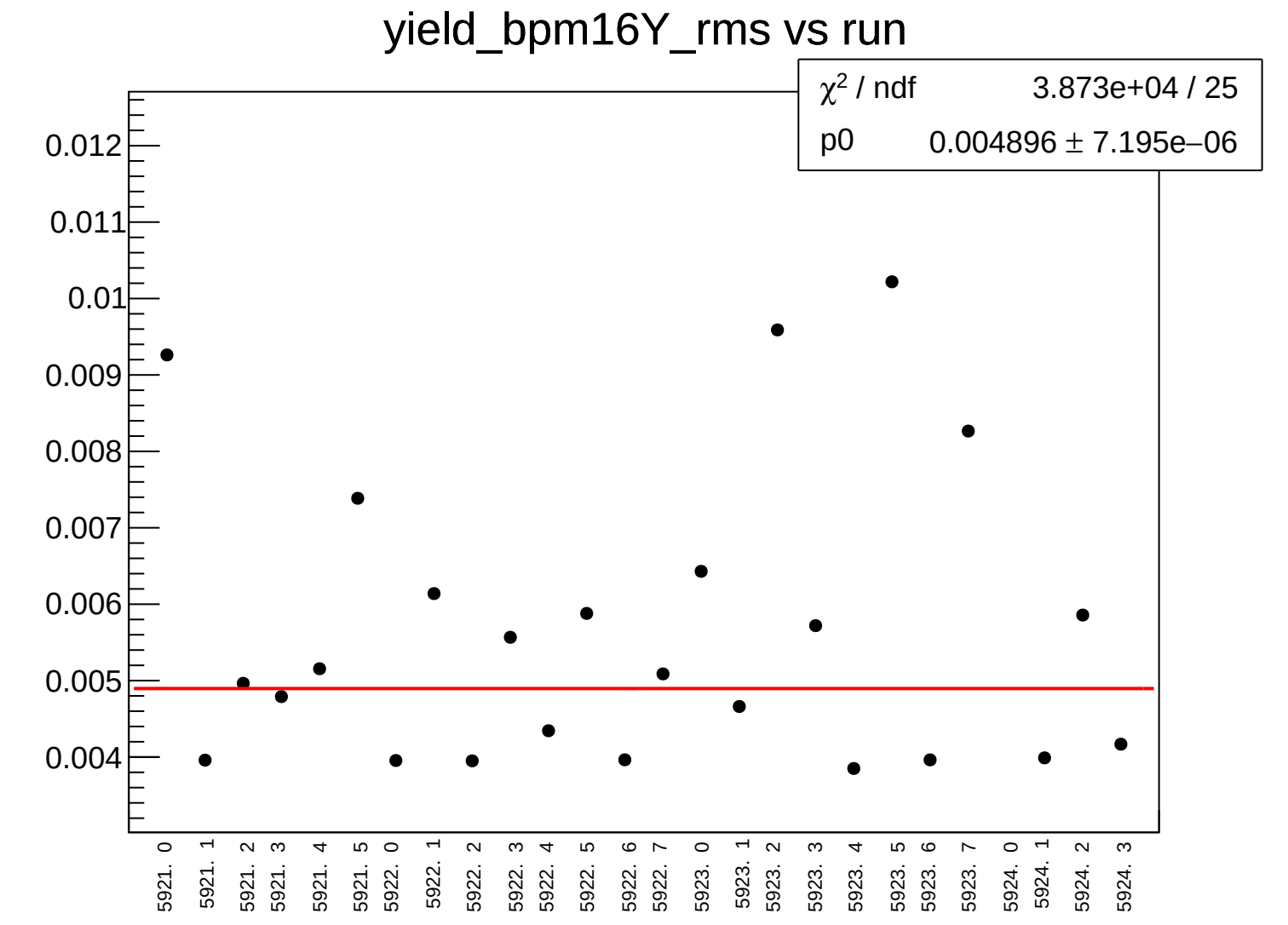

pull1D
Entries 26
Mean −0.7805
Std Dev 2.815
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

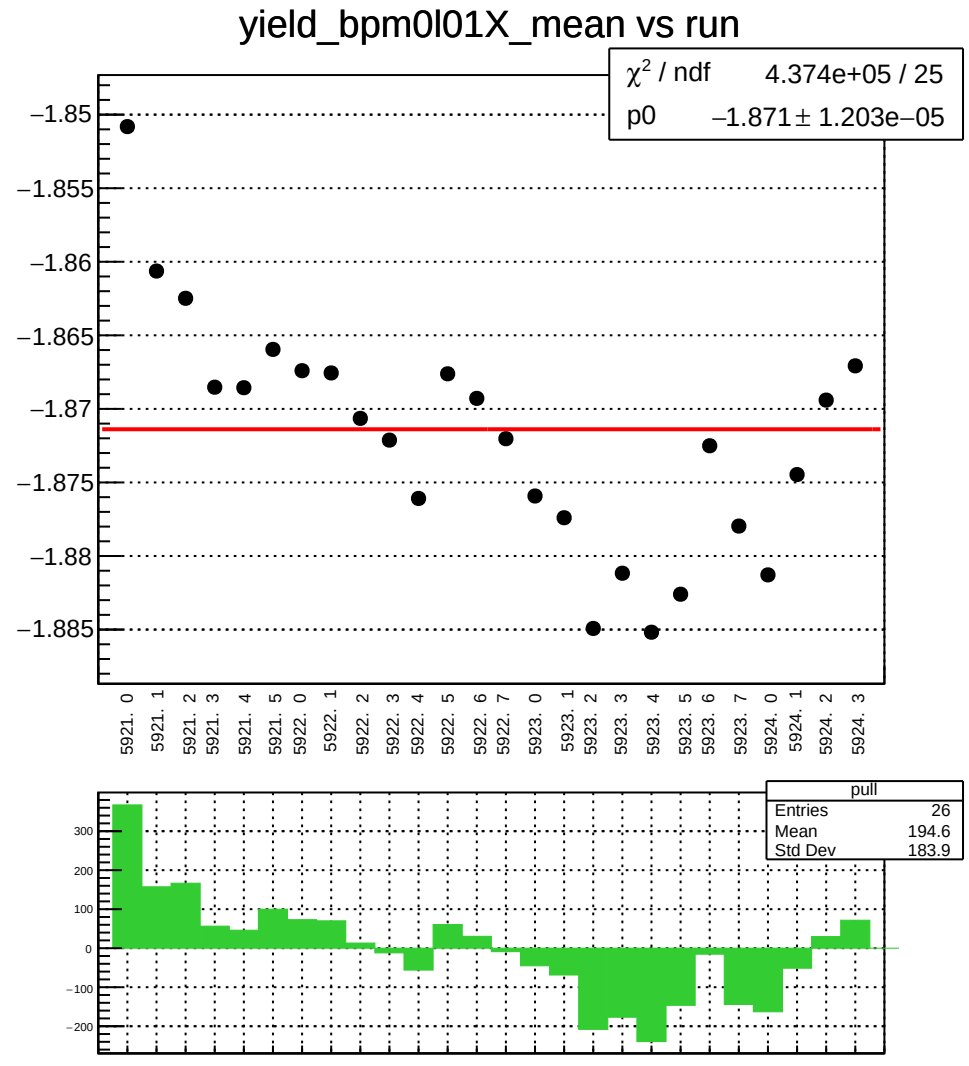

yield_bpm16X_rms vs run
χ² / ndf 1.393e+05 / 25
p0 0.0111 ± 1.843e−05
0.1
0.08
0.06
0.04
0.02
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

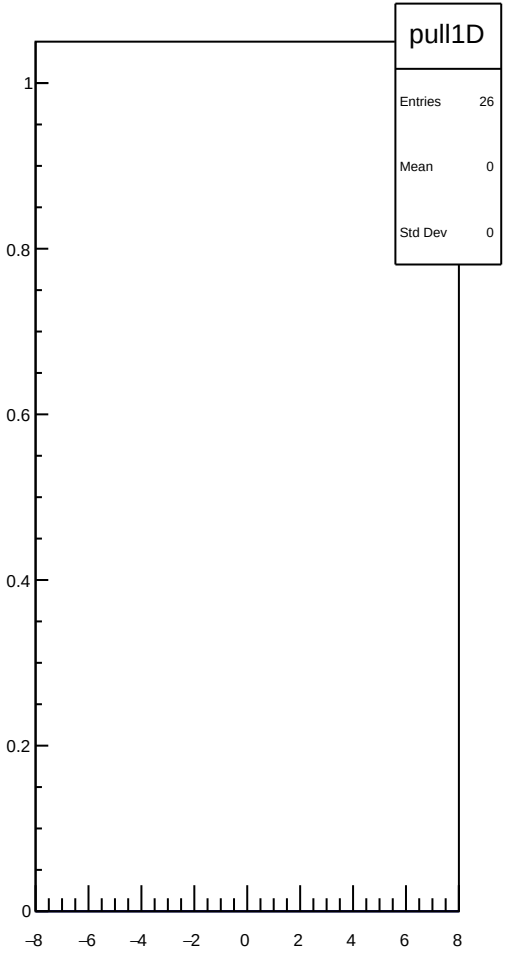

yield_bpm16Y_mean vs run
χ² / ndf 1.908e+04 / 25
p0 −0.2321 ± 1.018e−05
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
−0.238
−0.24
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

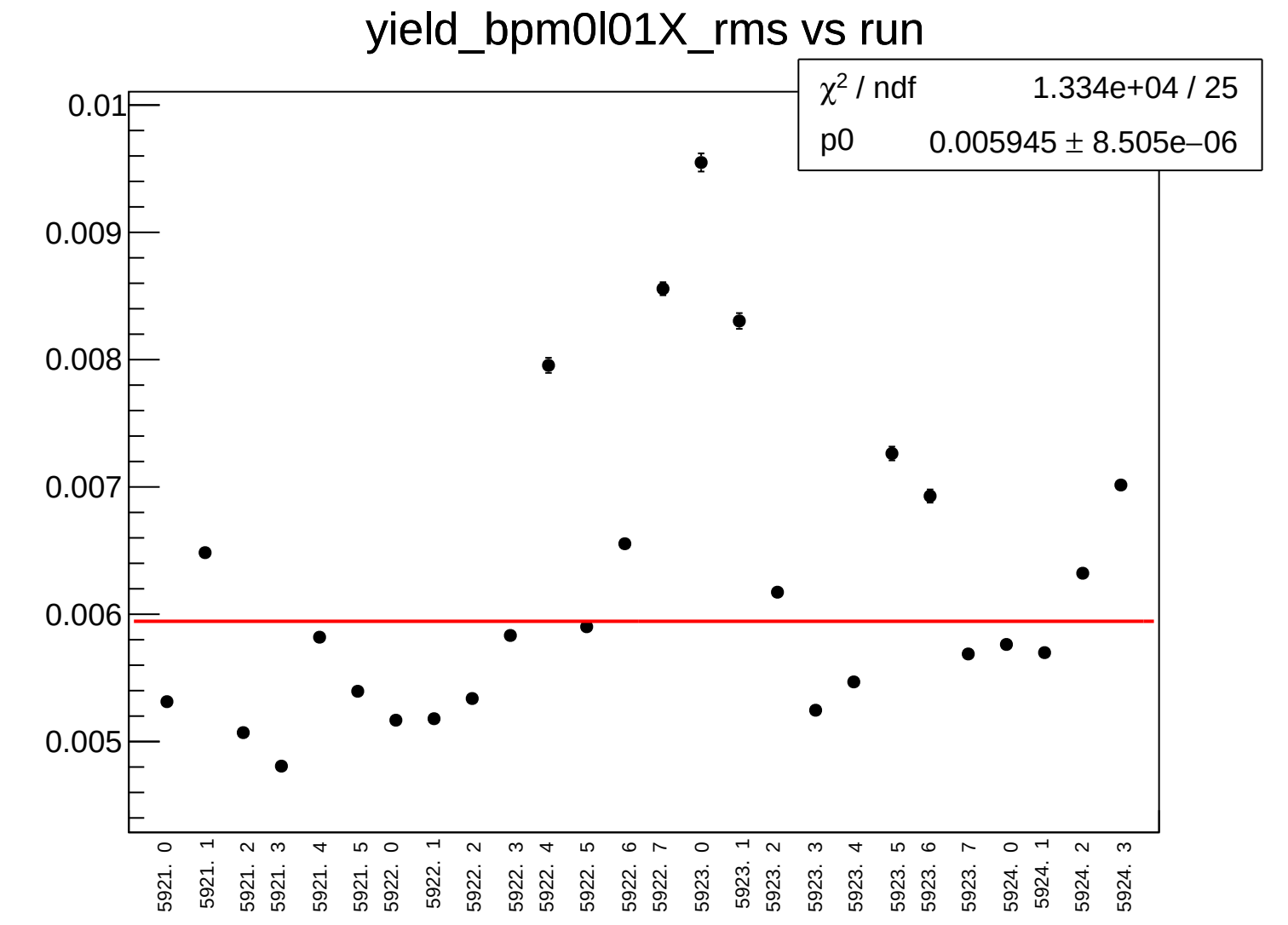

pull
Entries 26
Mean 7.211
Std Dev 13.11
80
60
40
20
0
−20
−40
−60

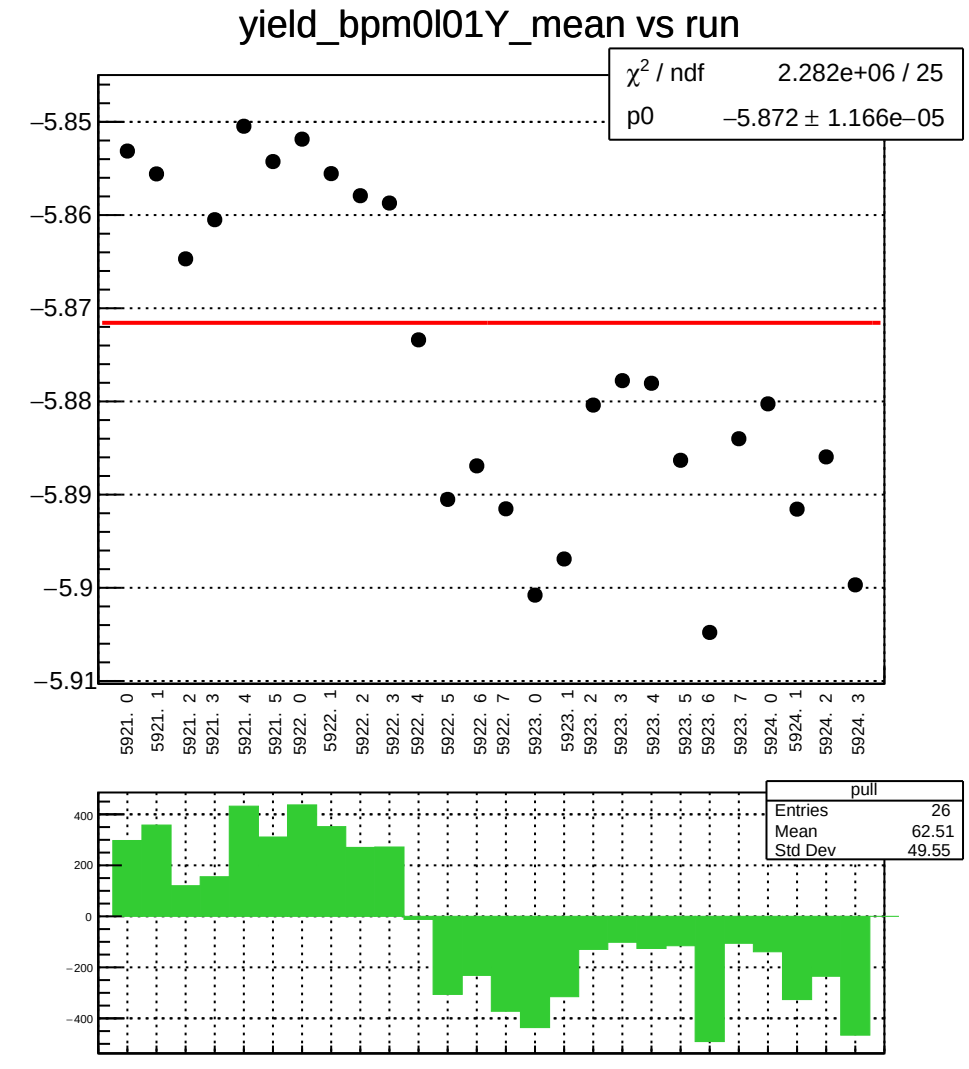

pull1D
Entries 26
Mean −0.605
Std Dev 5.385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

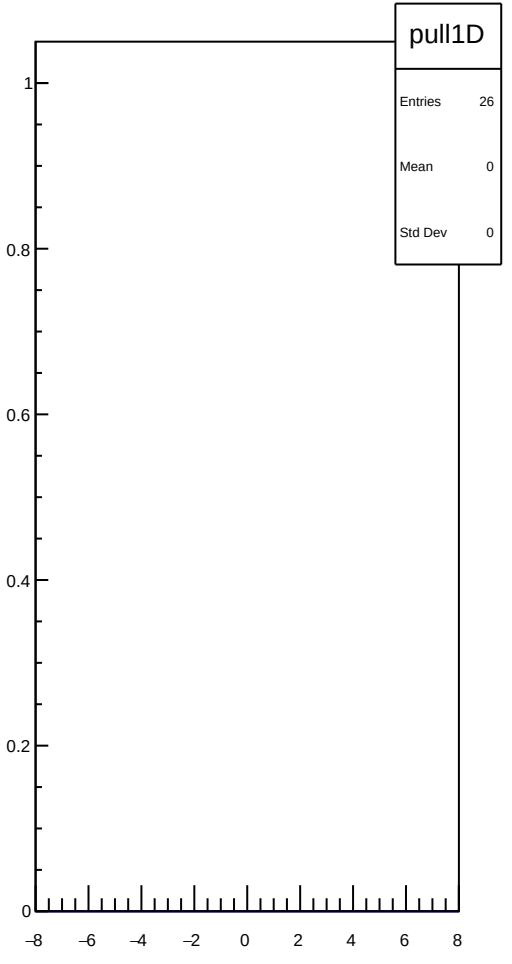

yield_bpm16Y_rms vs run
χ² / ndf 3.873e+04 / 25
p0 0.004896 ± 7.195e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

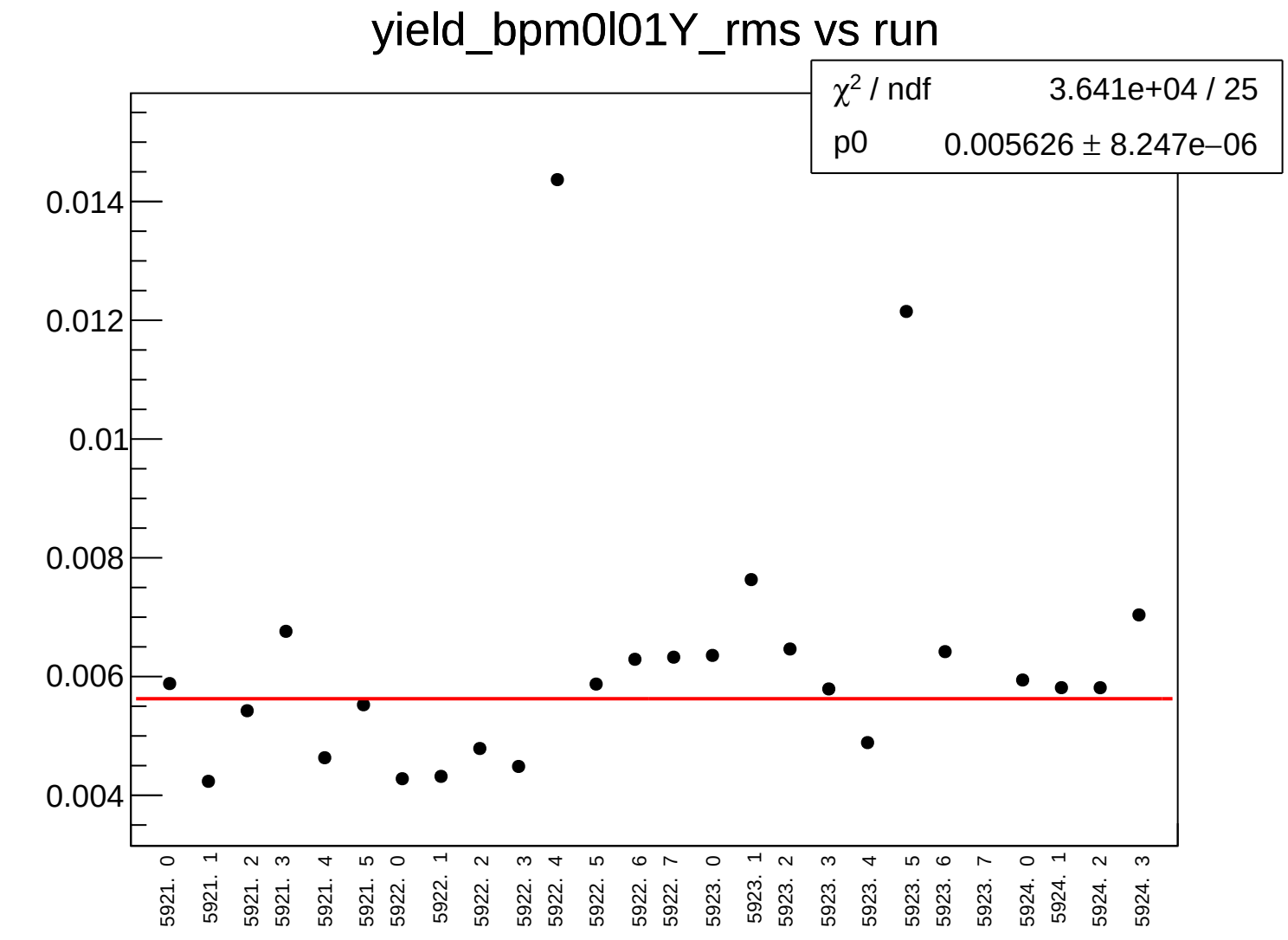

yield_bpm0l01X_mean vs run
χ² / ndf 4.374e+05 / 25
p0 −1.871 ± 1.203e−05
−1.85
−1.855
−1.86
−1.865
−1.87
−1.875
−1.88
−1.885
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 194.6
Std Dev 183.9
300
200
100
0
−100
−200

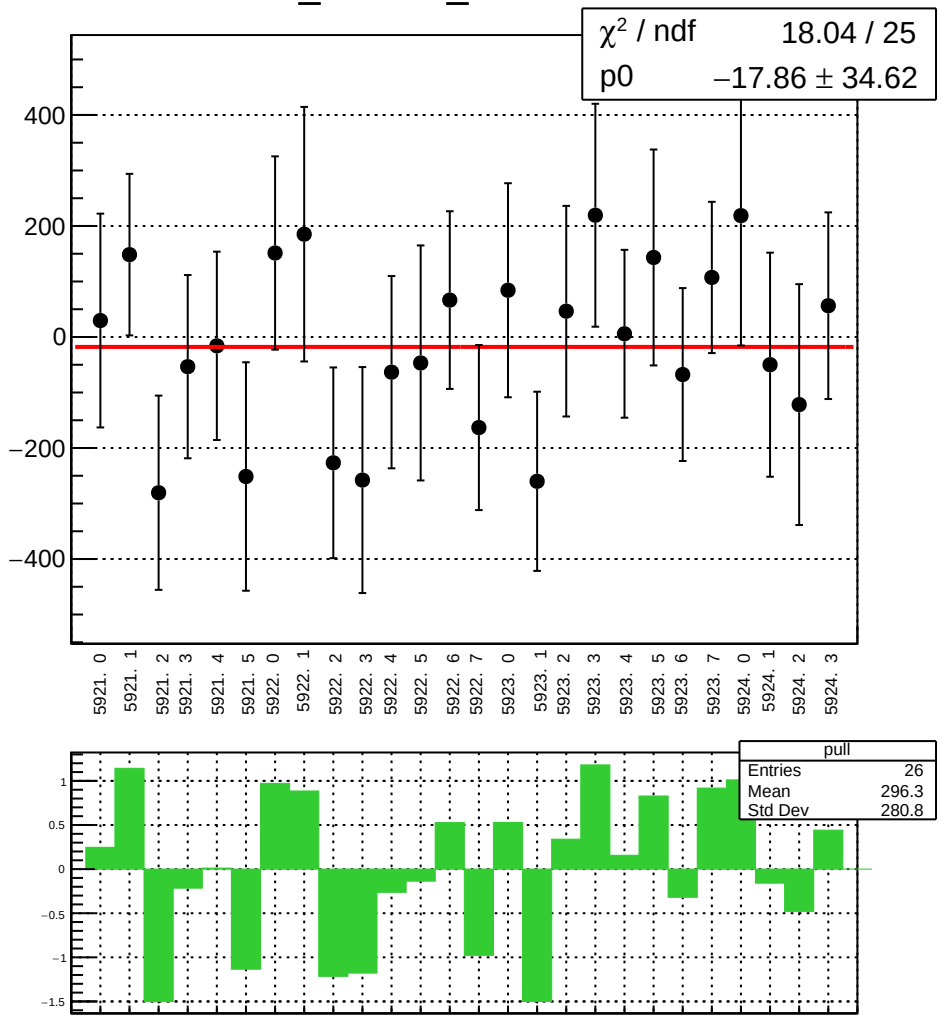

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

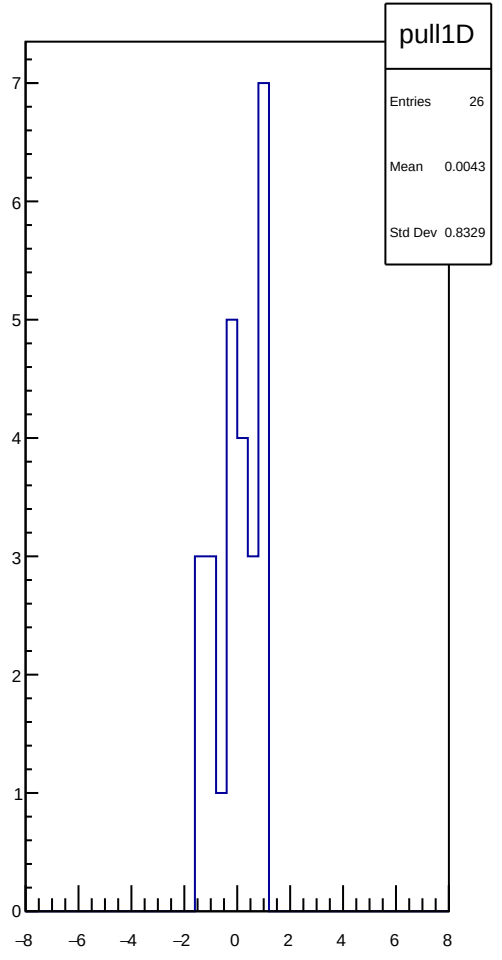

yield_bpm0l01X_rms vs run
χ² / ndf 1.334e+04 / 25
p0 0.005945 ± 8.505e−06
0.01
0.009
0.008
0.007
0.006
0.005
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

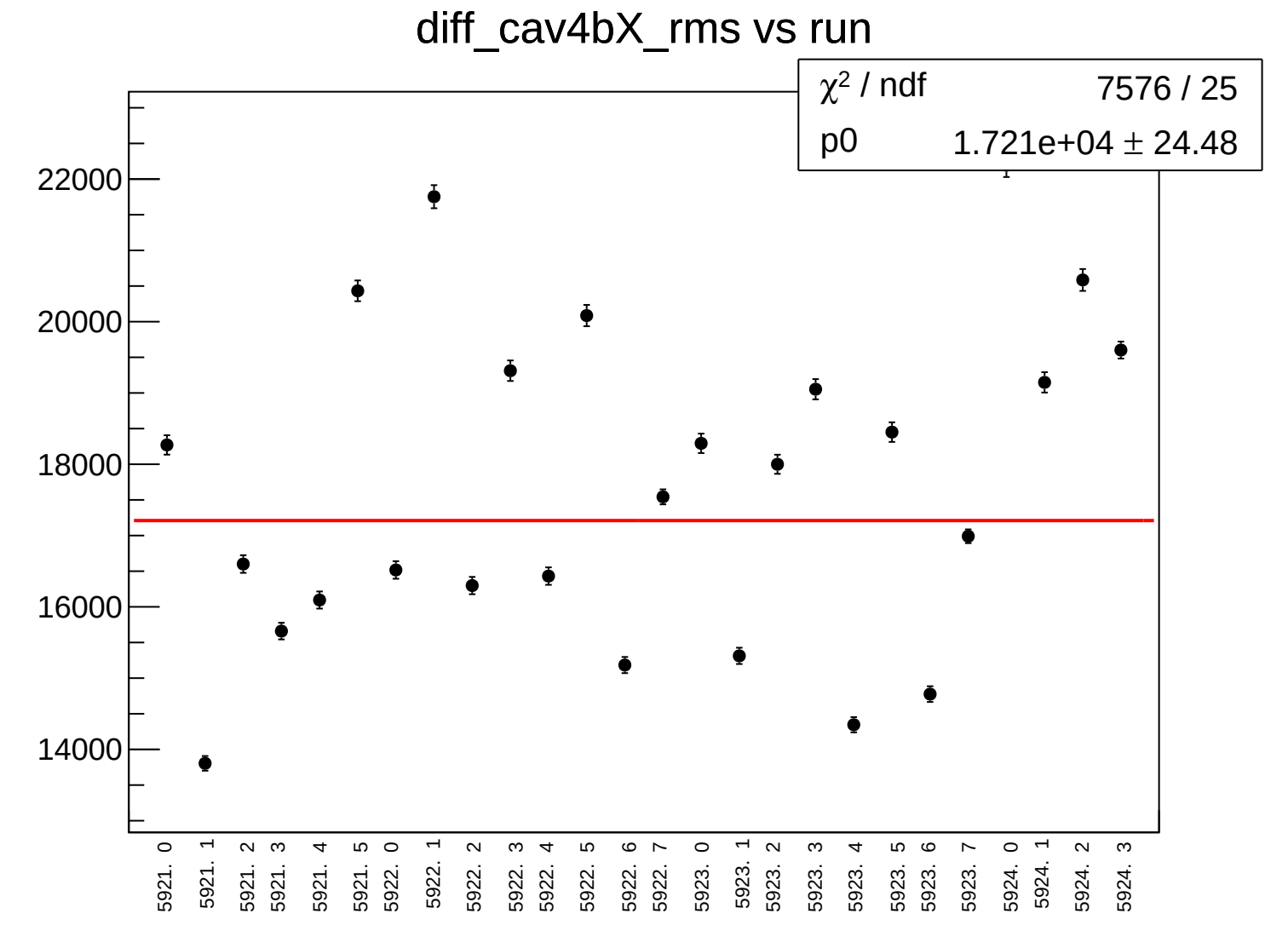

yield_bpm0l01Y_mean vs run
χ² / ndf 2.282e+06 / 25
p0 −5.872 ± 1.166e−05
−5.85
−5.86
−5.87
−5.88
−5.89
−5.9
−5.91
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 62.51
Std Dev 49.55
400
200
0
−200
−400

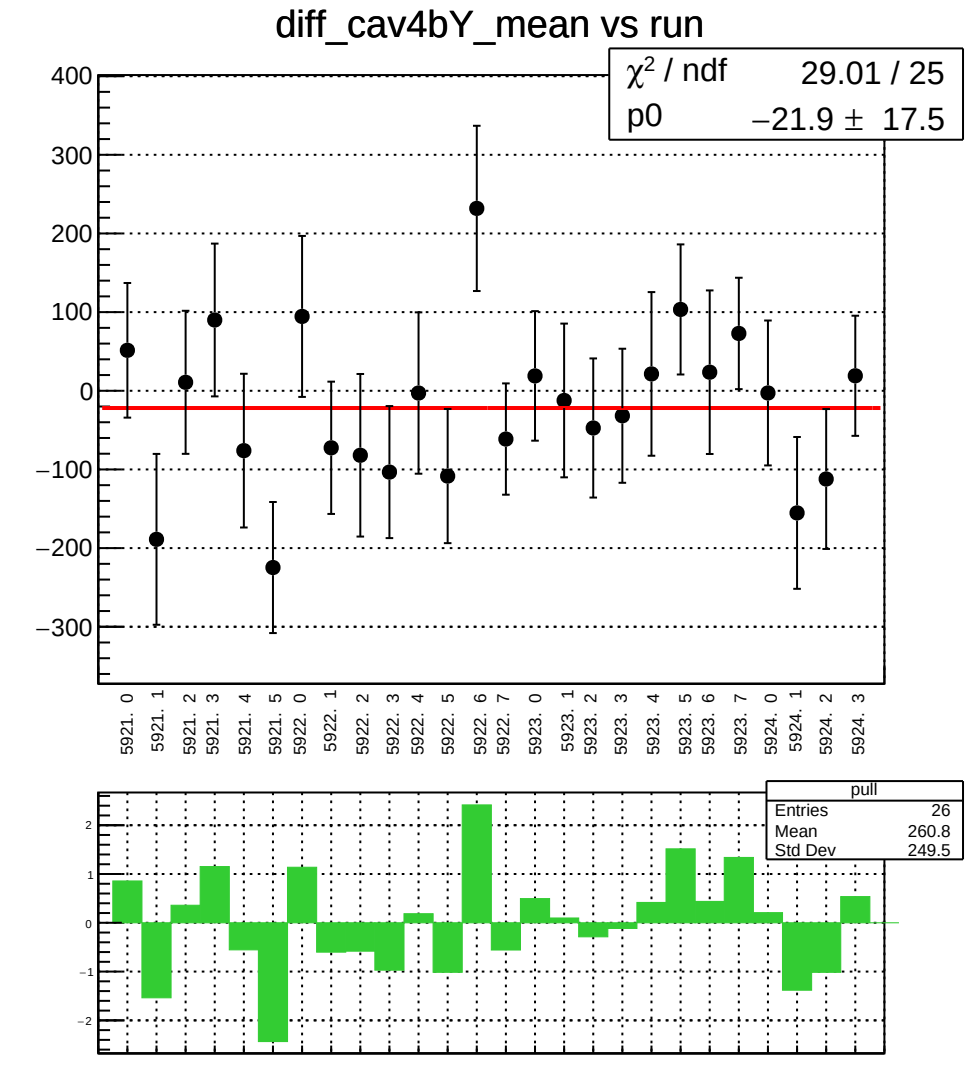

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

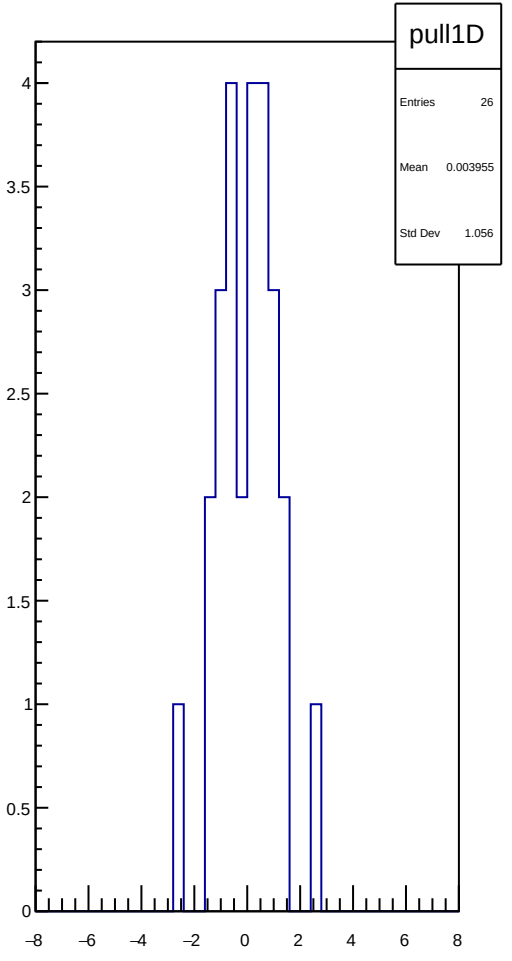

yield_bpm0l01Y_rms vs run
χ² / ndf 3.641e+04 / 25
p0 0.005626 ± 8.247e−06
0.014
0.012
0.01
0.008
0.006
0.004
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

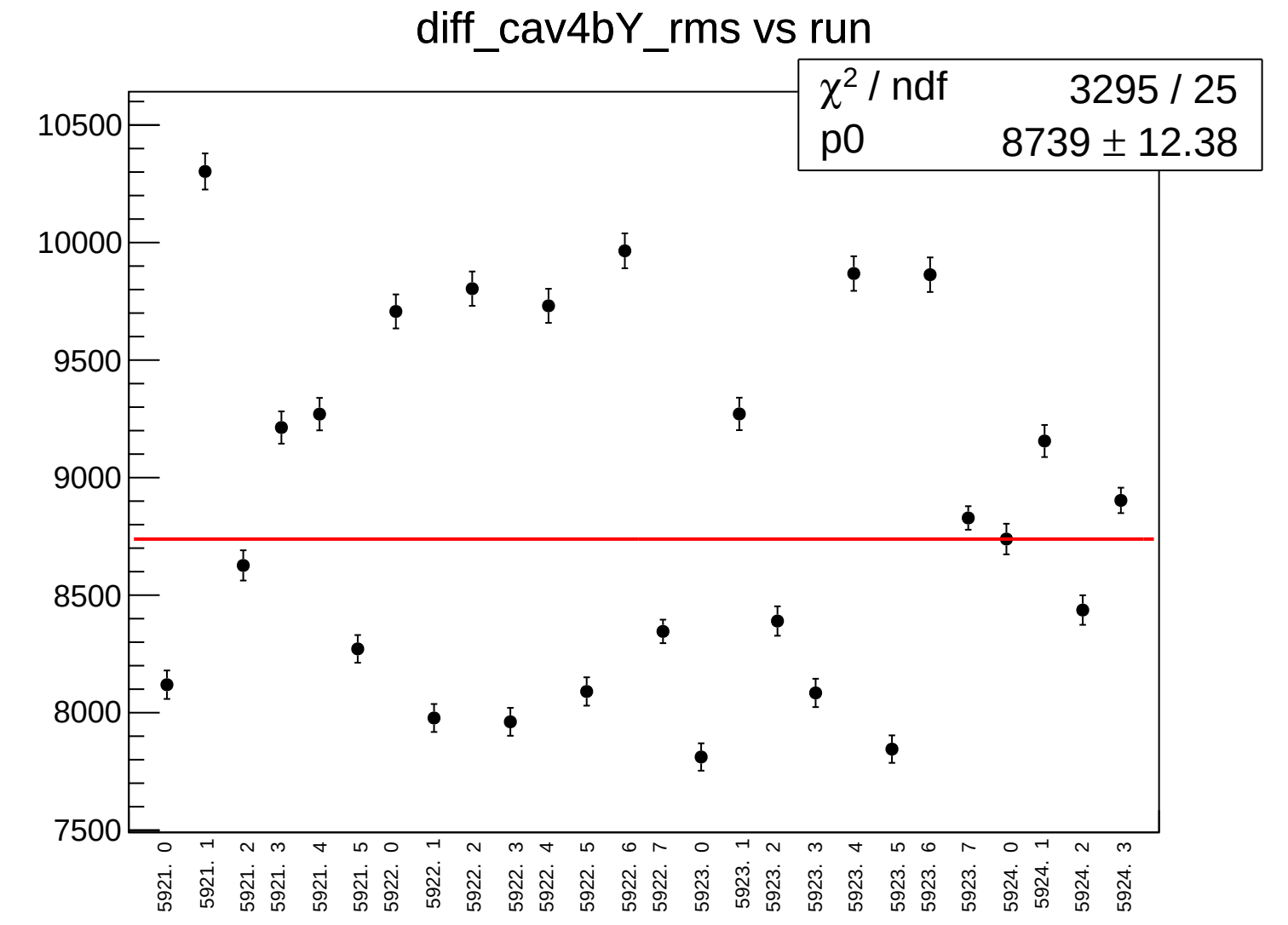

diff_cav4bX_mean vs run
χ² / ndf 18.04 / 25
p0 −17.86 ± 34.62
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 296.3
Std Dev 280.8
1
0.5
0
−0.5
−1
−1.5

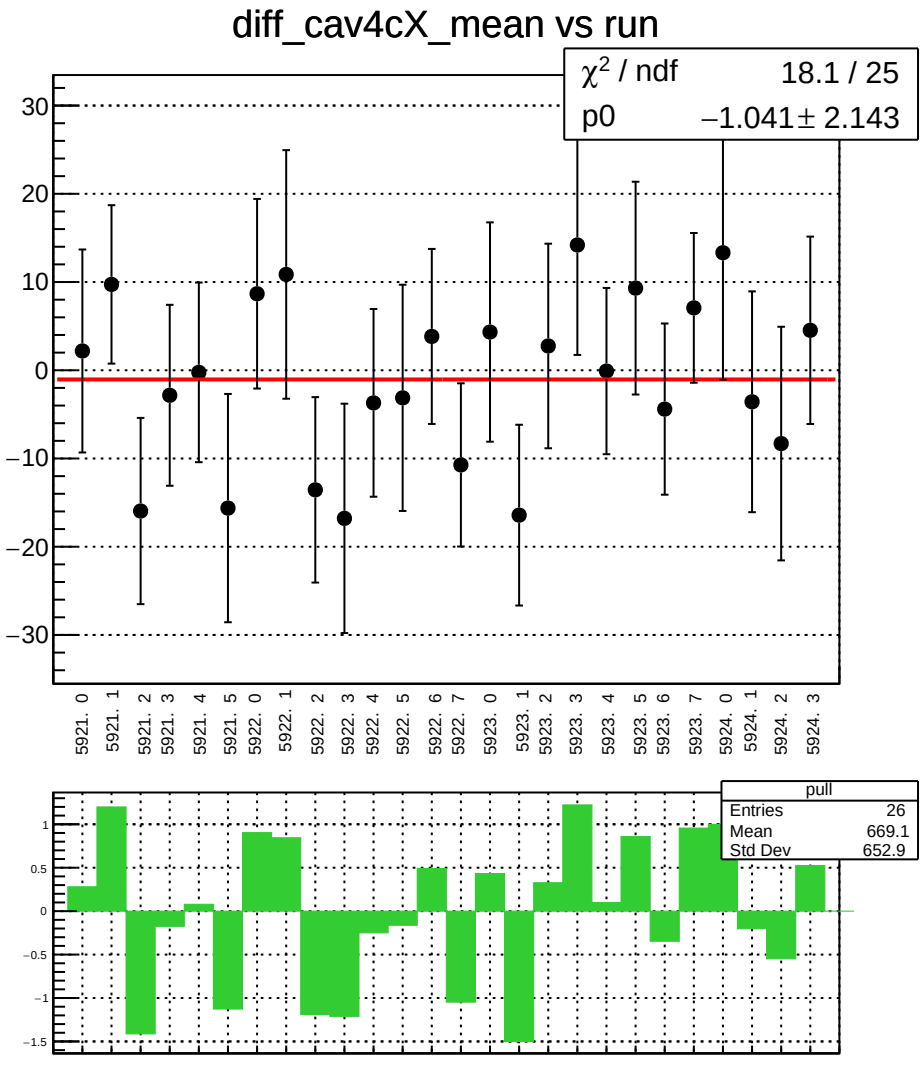

pull1D
Entries 26
Mean 0.0043
Std Dev 0.8329
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

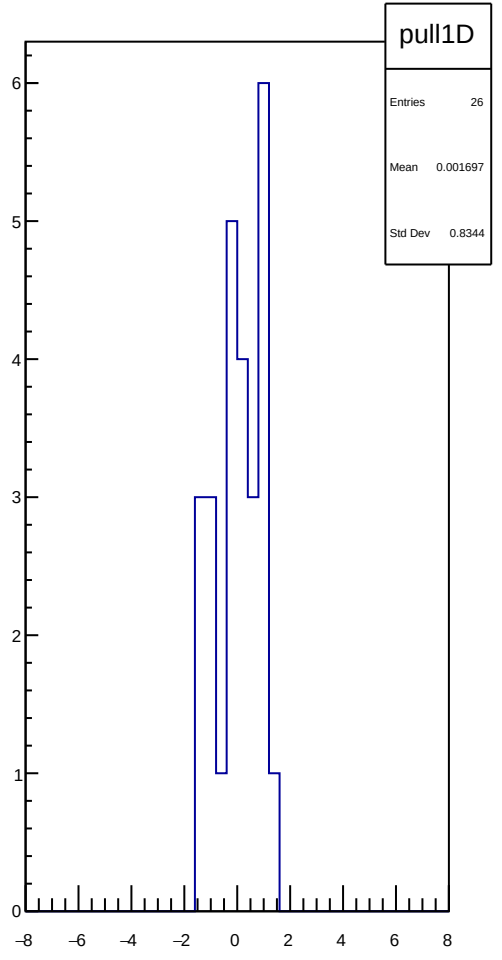

diff_cav4bX_rms vs run
χ² / ndf 7576 / 25
p0 1.721e+04 ± 24.48
22000
20000
18000
16000
14000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

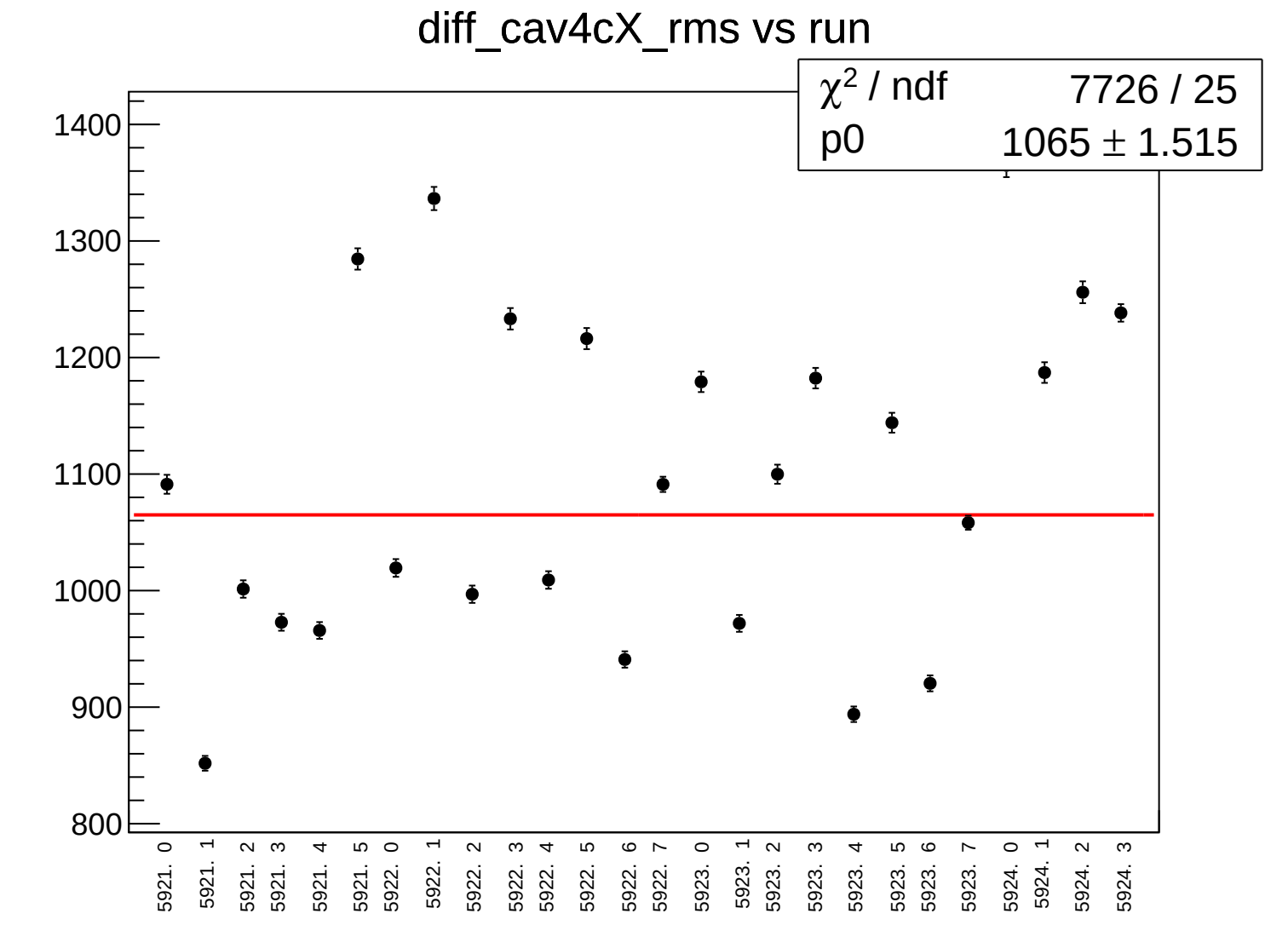

diff_cav4bY_mean vs run
χ² / ndf 29.01 / 25
p0 −21.9 ± 17.5
400
300
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 260.8
Std Dev 249.5
2
1
0
−1
−2

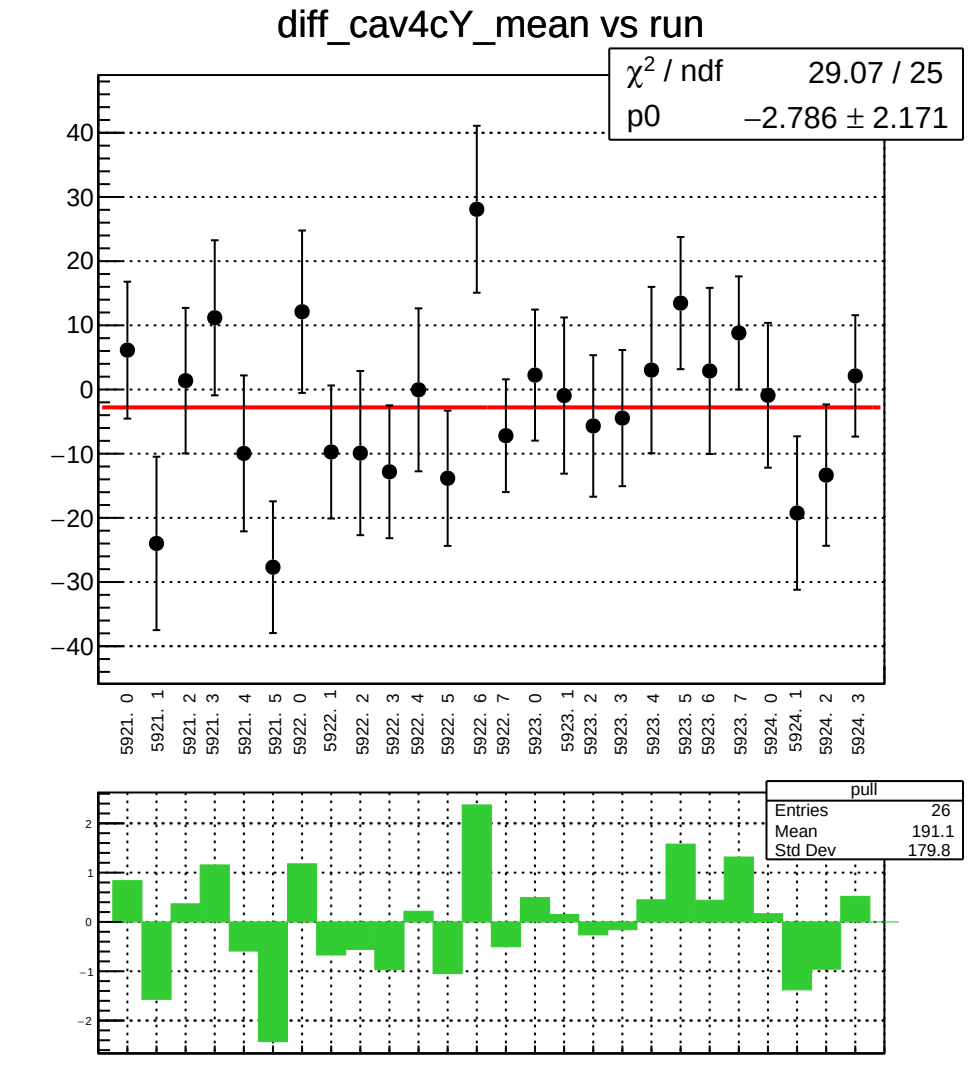

pull1D
Entries 26
Mean 0.003955
Std Dev 1.056
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

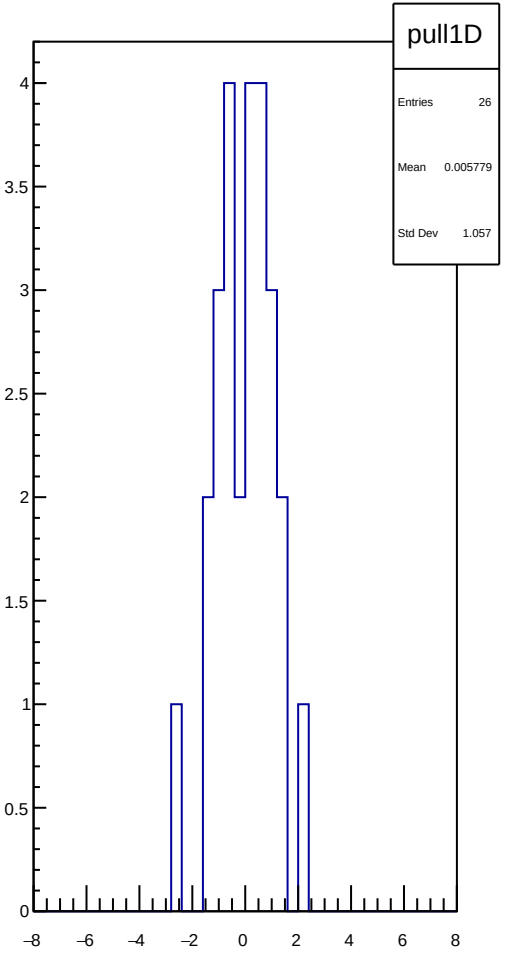

diff_cav4bY_rms vs run
χ² / ndf 3295 / 25
p0 8739 ± 12.38
10500
10000
9500
9000
8500
8000
7500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

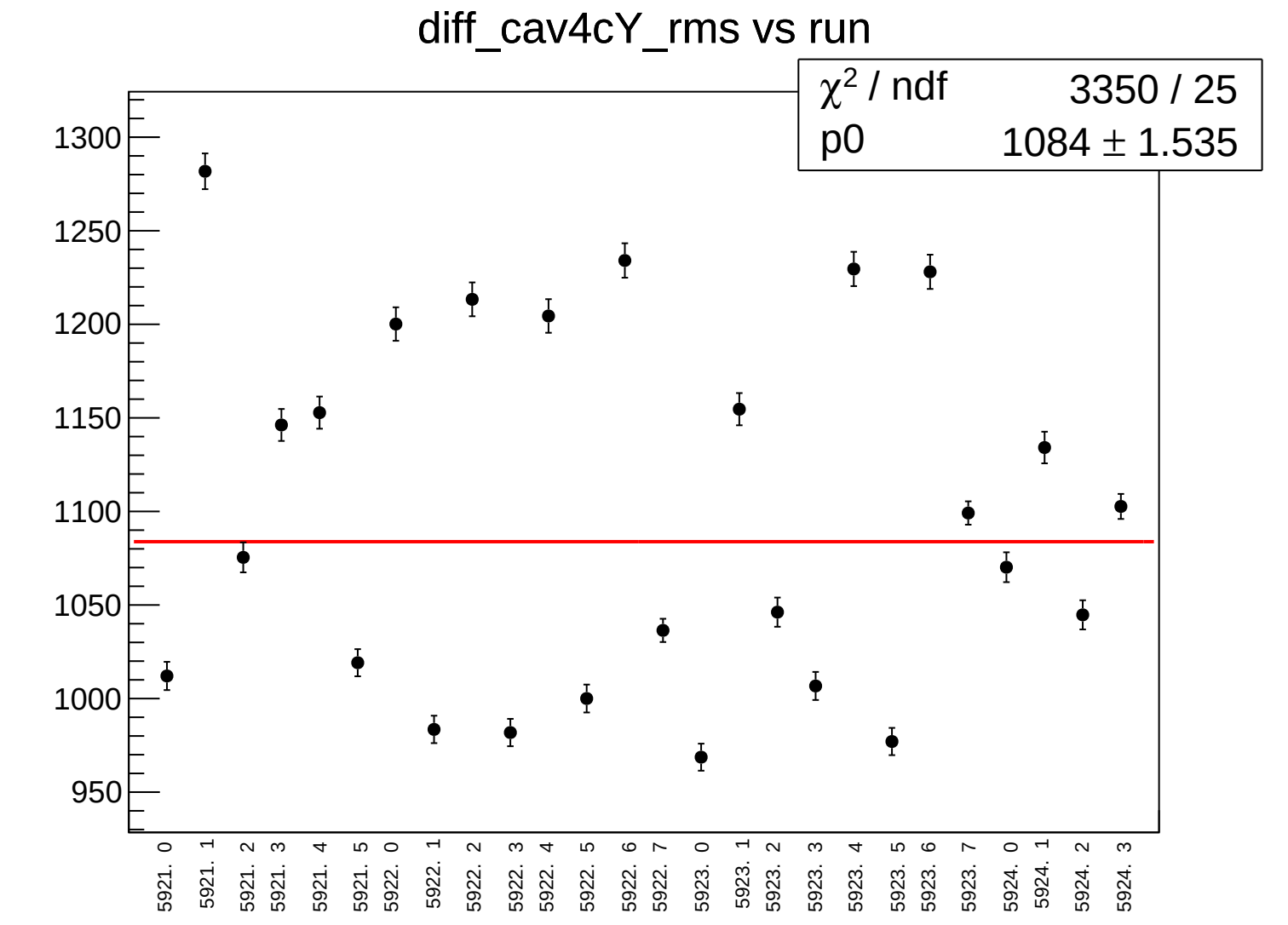

diff_cav4cX_mean vs run
χ² / ndf 18.1 / 25
p0 −1.041 ± 2.143
30
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 669.1
Std Dev 652.9
1
0.5
0
−0.5
−1
−1.5

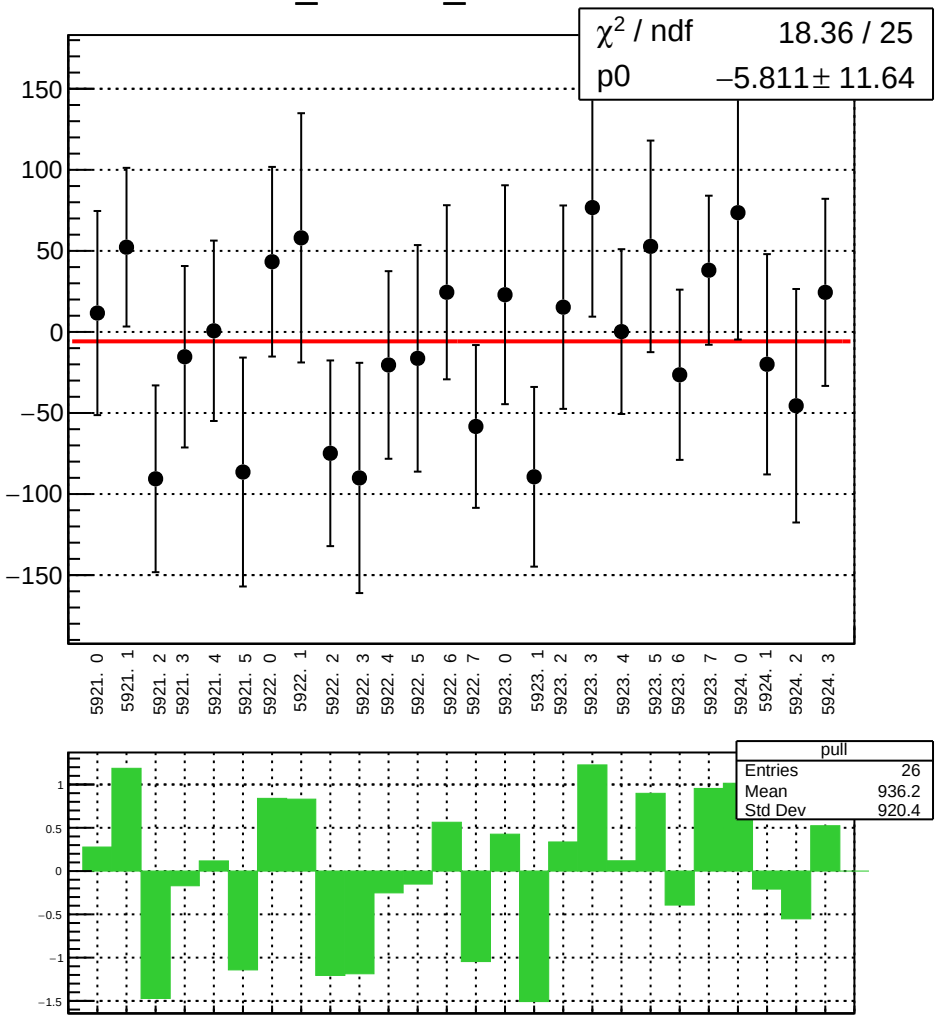

pull1D
Entries 26
Mean 0.001697
Std Dev 0.8344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

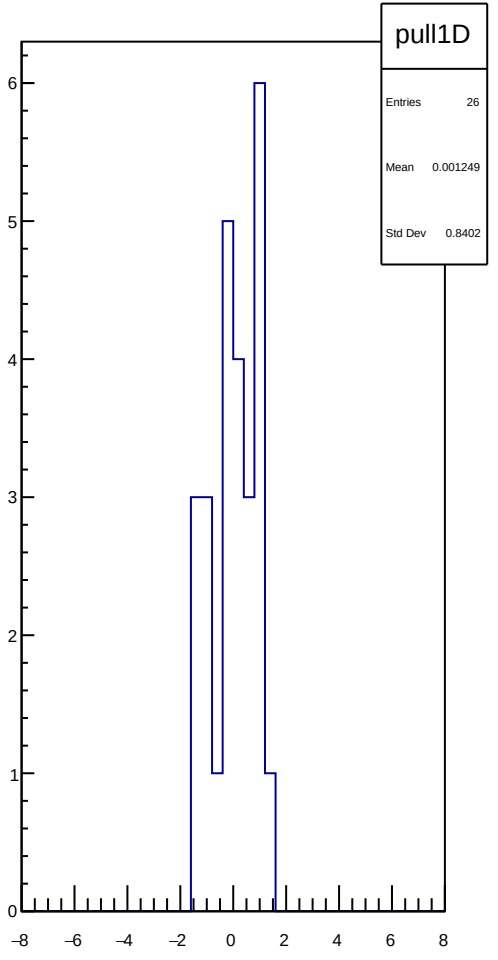

diff_cav4cX_rms vs run
χ² / ndf 7726 / 25
p0 1065 ± 1.515
1400
1300
1200
1100
1000
900
800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

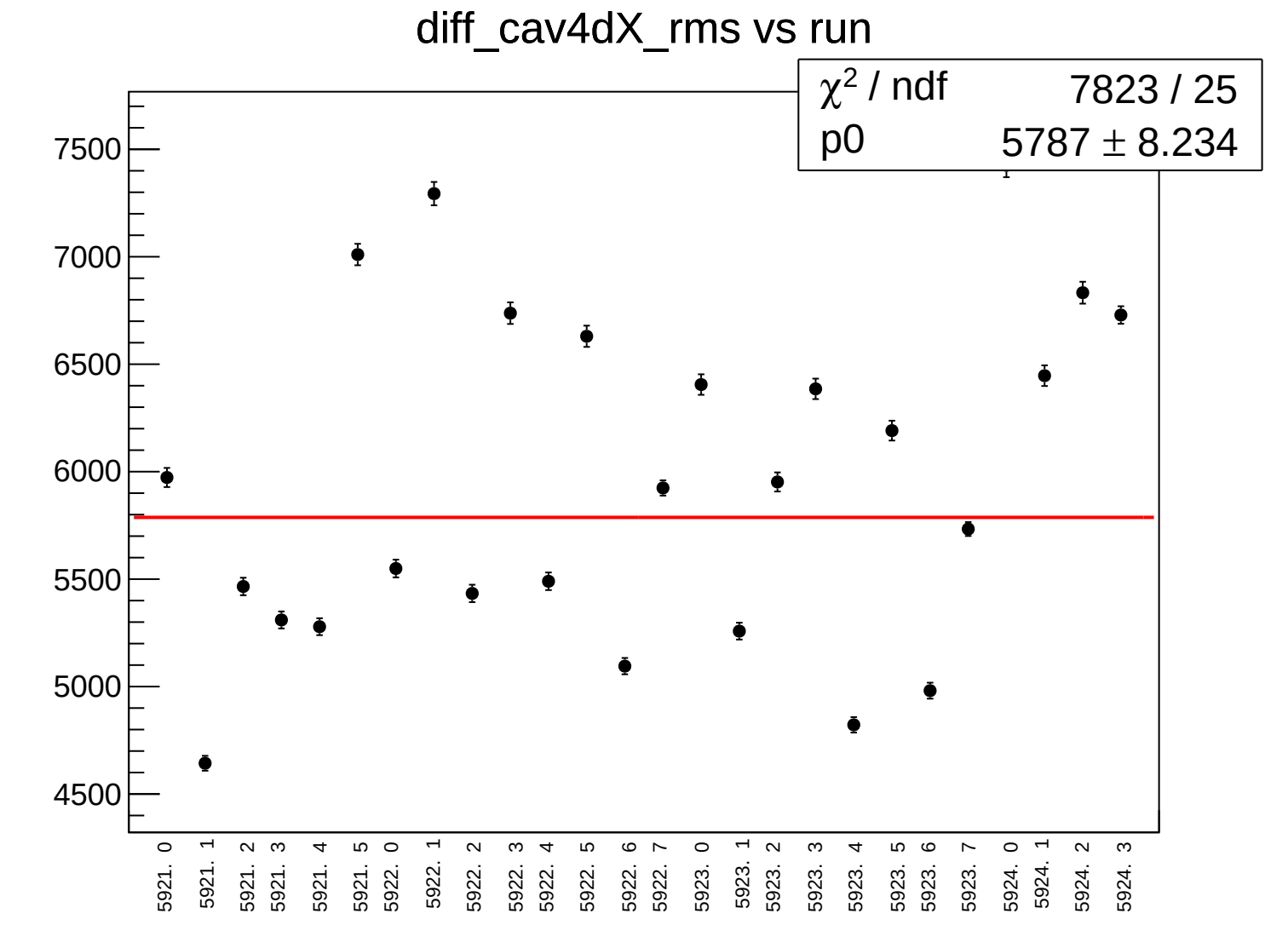

diff_cav4cY_mean vs run
χ² / ndf 29.07 / 25
p0 −2.786 ± 2.171
40
30
20
10
0
−10
−20
−30
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 191.1
Std Dev 179.8
2
1
0
−1
−2

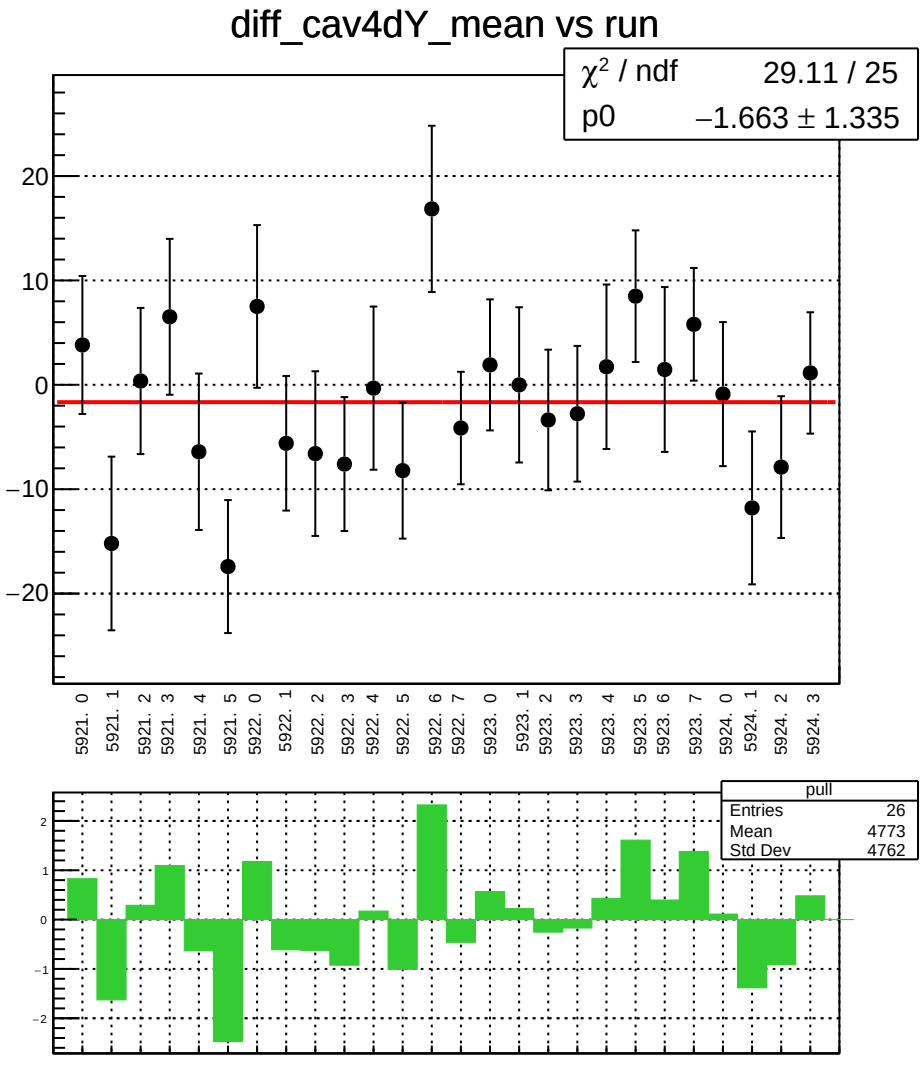

pull1D
Entries 26
Mean 0.005779
Std Dev 1.057
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

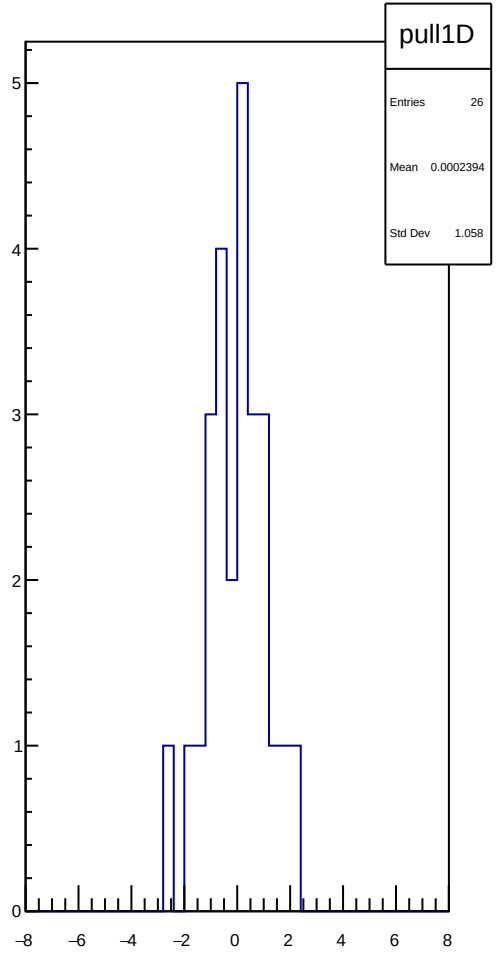

diff_cav4cY_rms vs run
χ² / ndf 3350 / 25
p0 1084 ± 1.535
1300
1250
1200
1150
1100
1050
1000
950
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

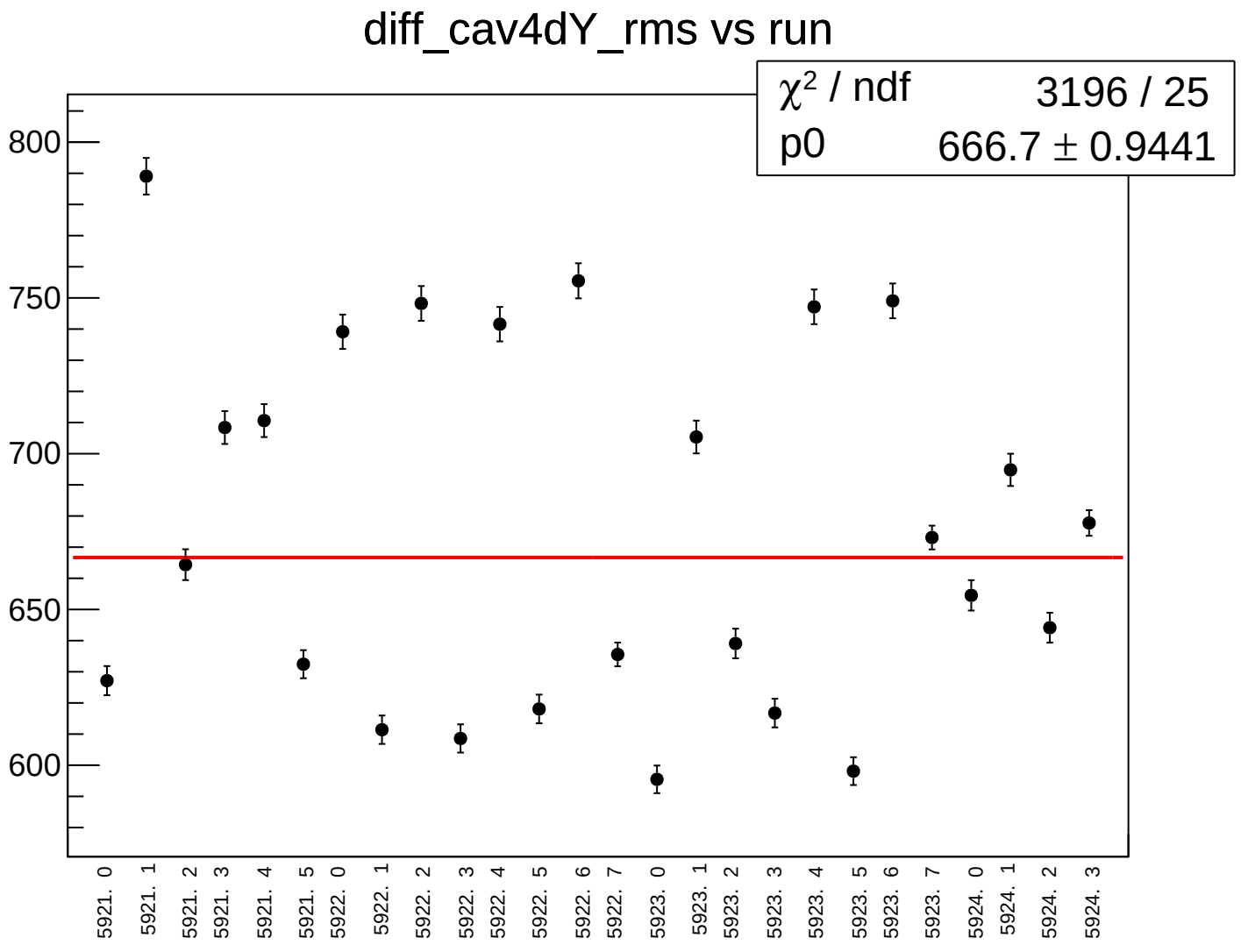

diff_cav4dX_mean vs run
χ² / ndf 18.36 / 25
p0 −5.811 ± 11.64
150
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 936.2
Std Dev 920.4
1
0.5
0
−0.5
−1
−1.5

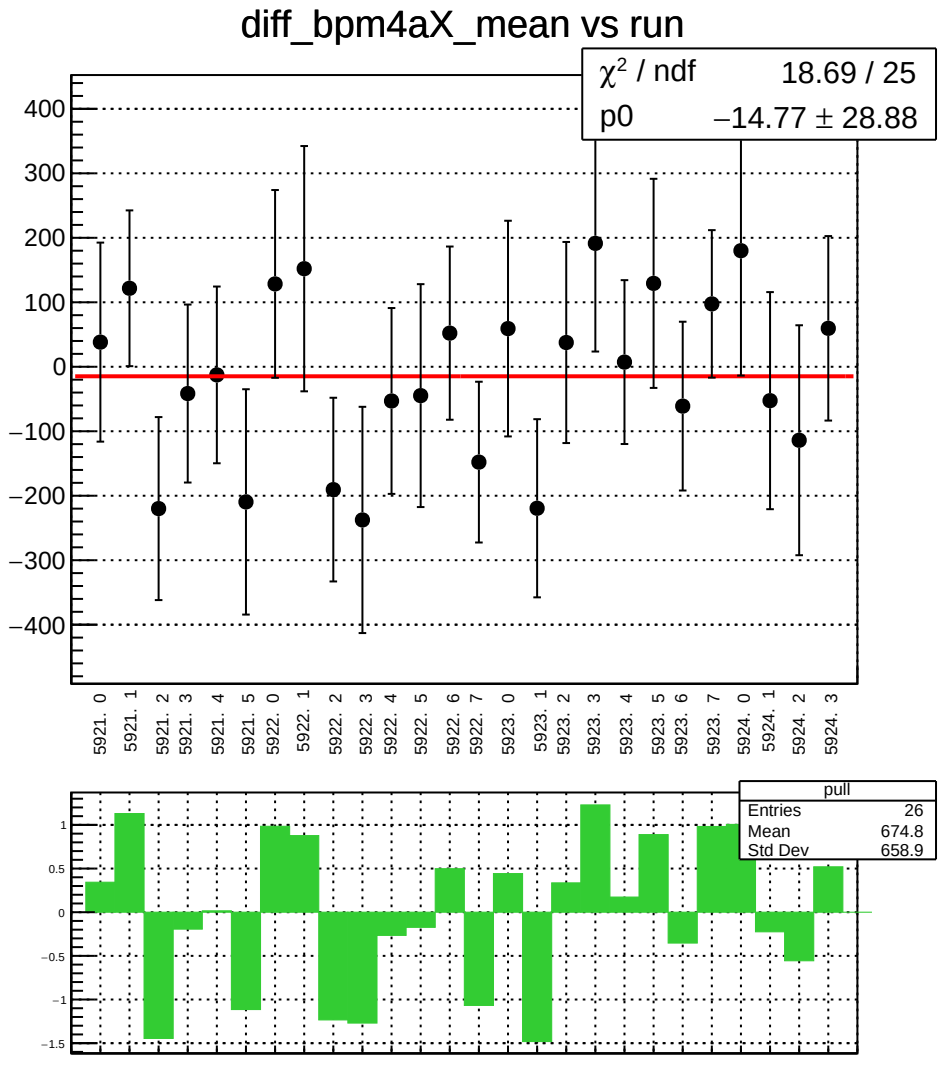

pull1D
Entries 26
Mean 0.001249
Std Dev 0.8402
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

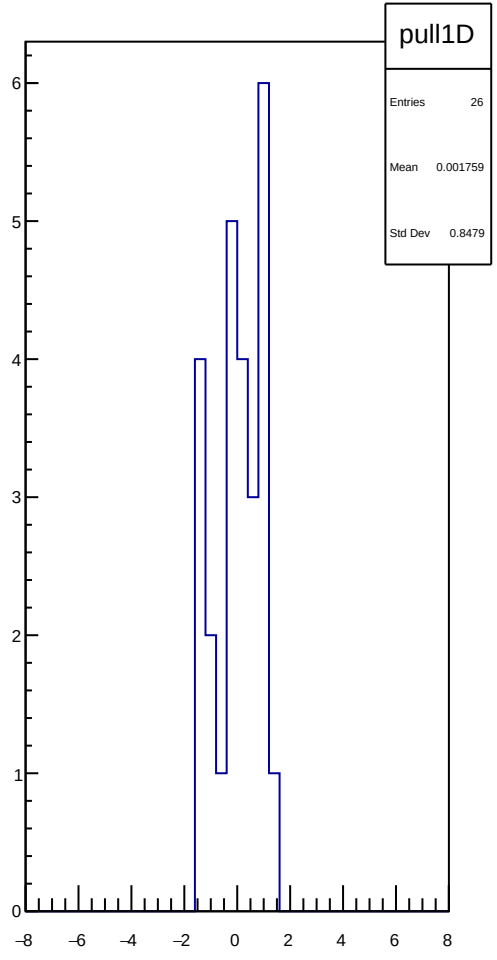

diff_cav4dX_rms vs run
χ² / ndf 7823 / 25
p0 5787 ± 8.234
7500
7000
6500
6000
5500
5000
4500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

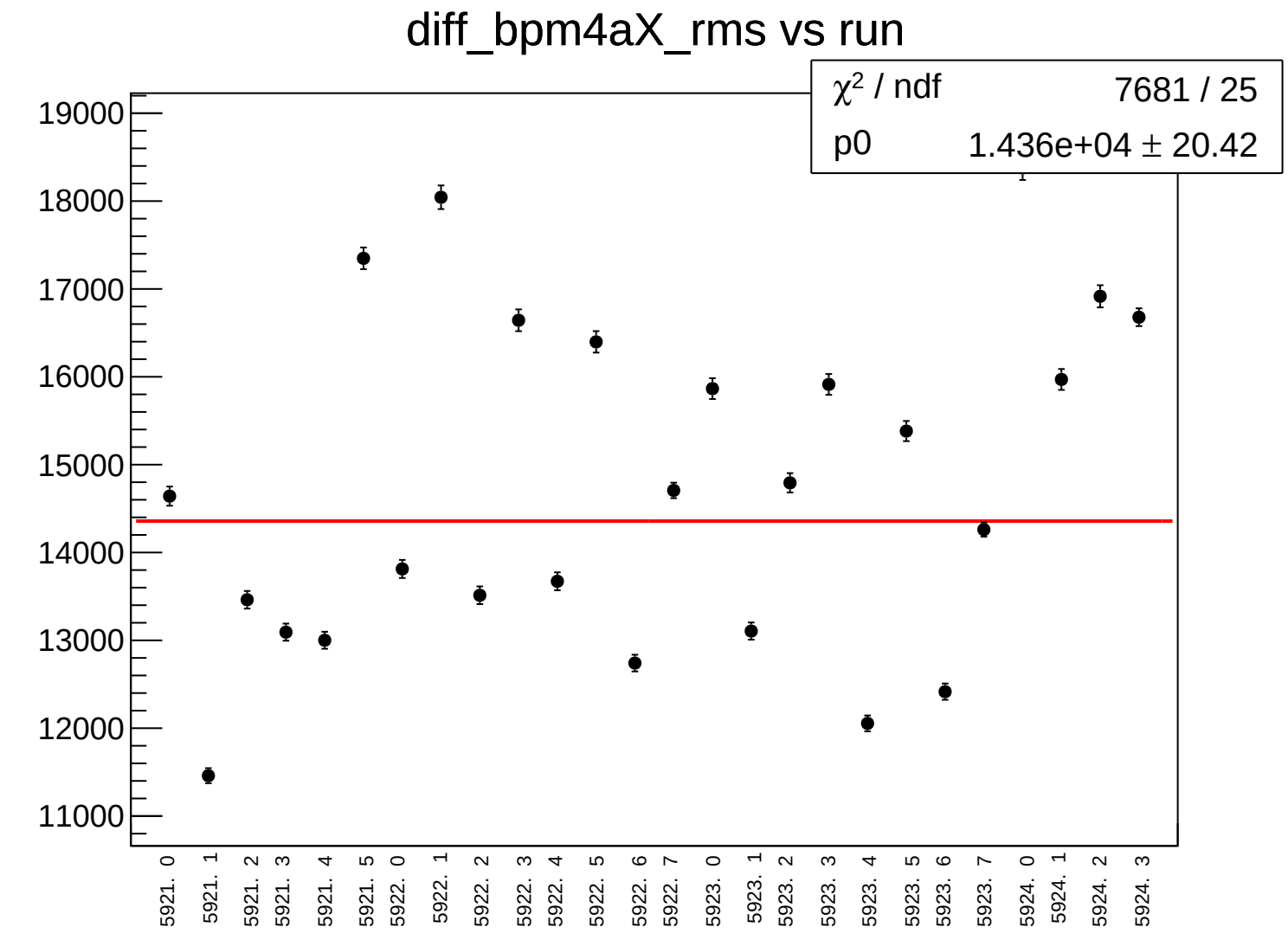

diff_cav4dY_mean vs run
χ² / ndf 29.11 / 25
p0 −1.663 ± 1.335
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4773
Std Dev 4762
2
1
0
−1
−2

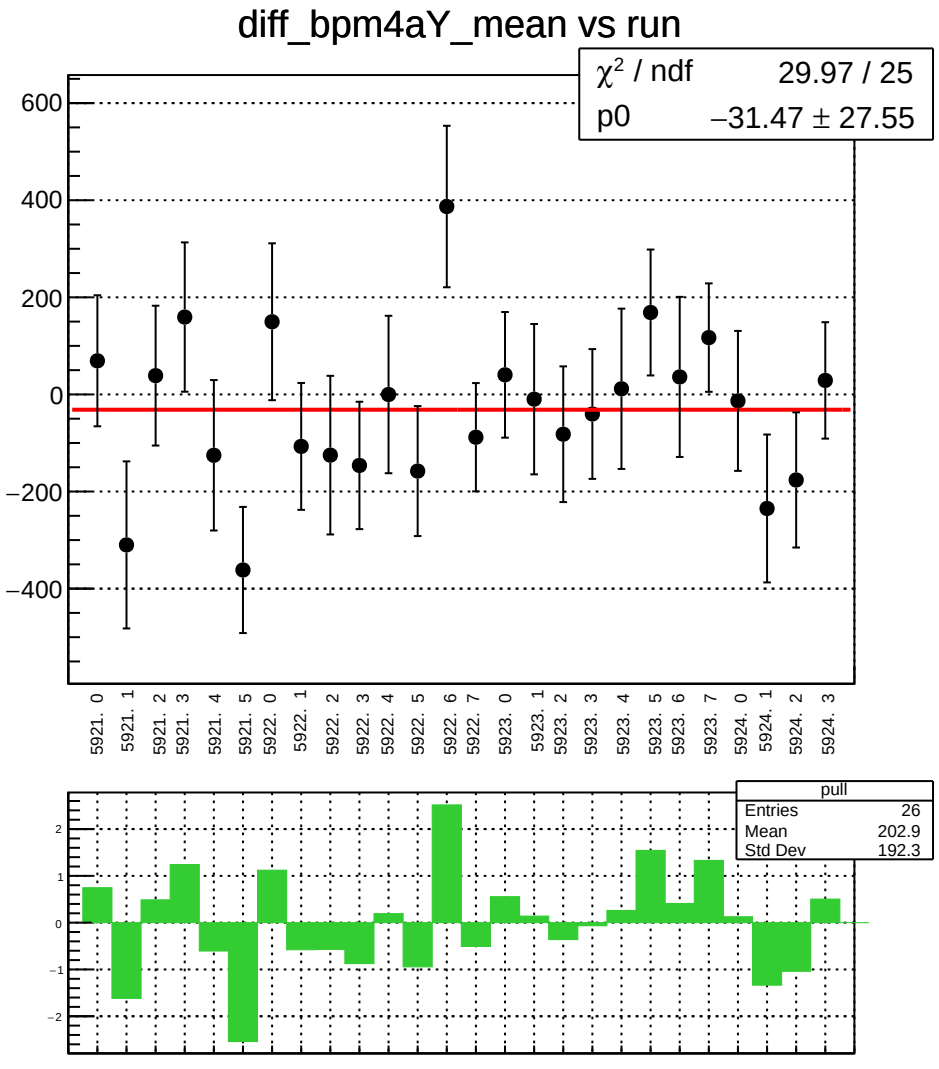

pull1D
Entries 26
Mean 0.0002394
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

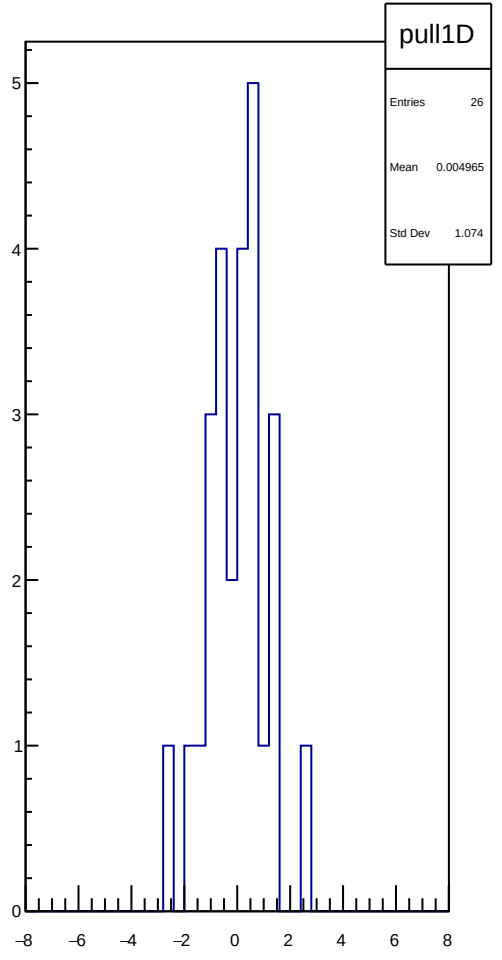

diff_cav4dY_rms vs run
χ² / ndf 3196 / 25
p0 666.7 ± 0.9441
800
750
700
650
600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

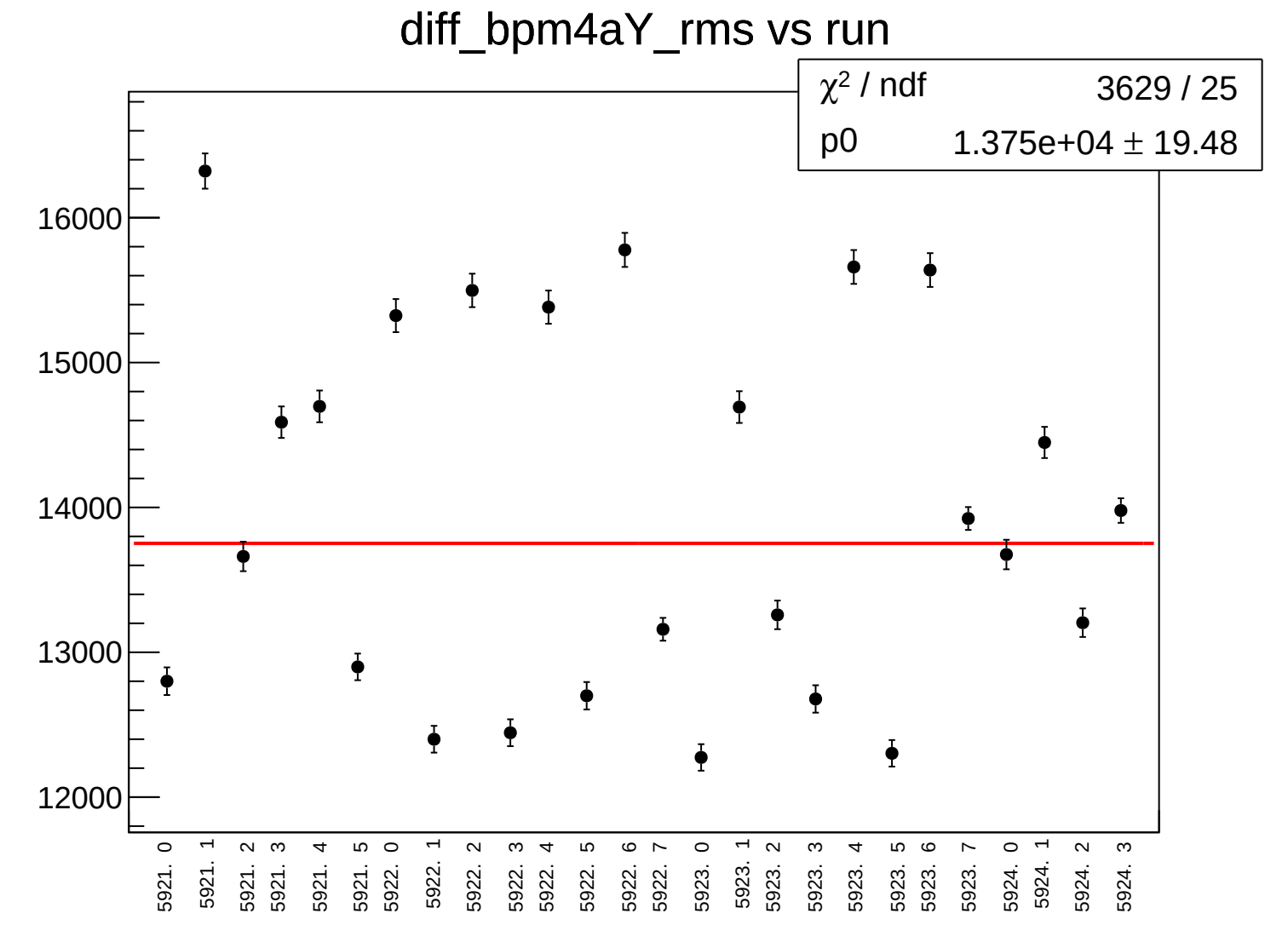

diff_bpm4aX_mean vs run
χ² / ndf 18.69 / 25
p0 −14.77 ± 28.88
400
300
200
100
0
−100
−200
−300
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 674.8
Std Dev 658.9
1
0.5
0
−0.5
−1
−1.5

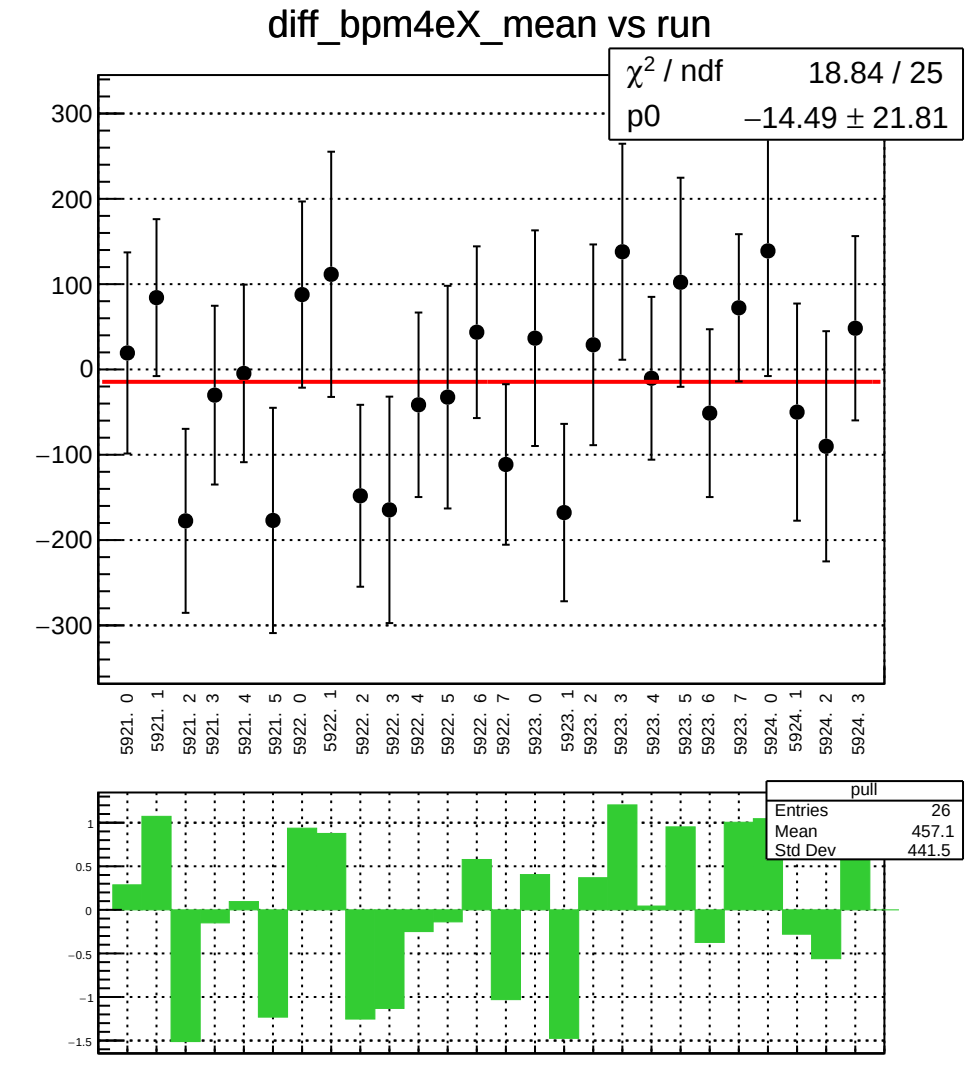

pull1D
Entries 26
Mean 0.001759
Std Dev 0.8479
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

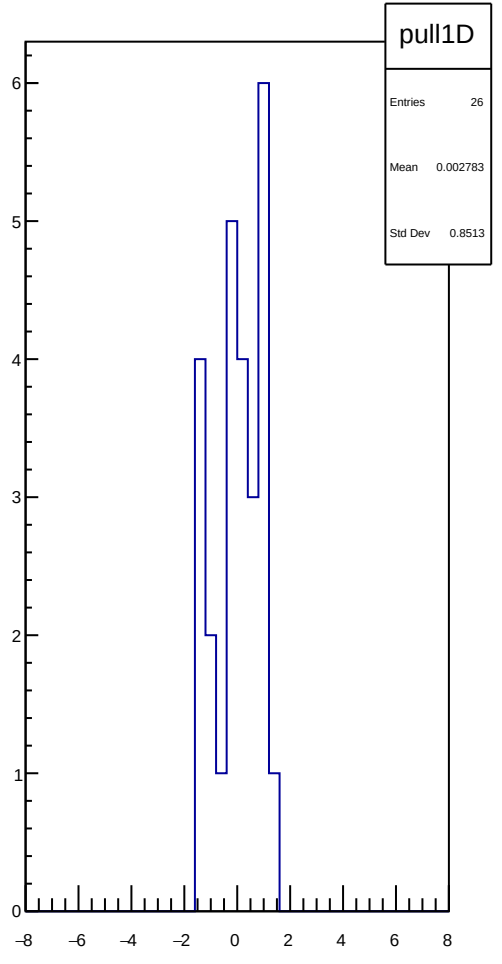

diff_bpm4aX_rms vs run
χ² / ndf 7681 / 25
p0 1.436e+04 ± 20.42
19000
18000
17000
16000
15000
14000
13000
12000
11000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

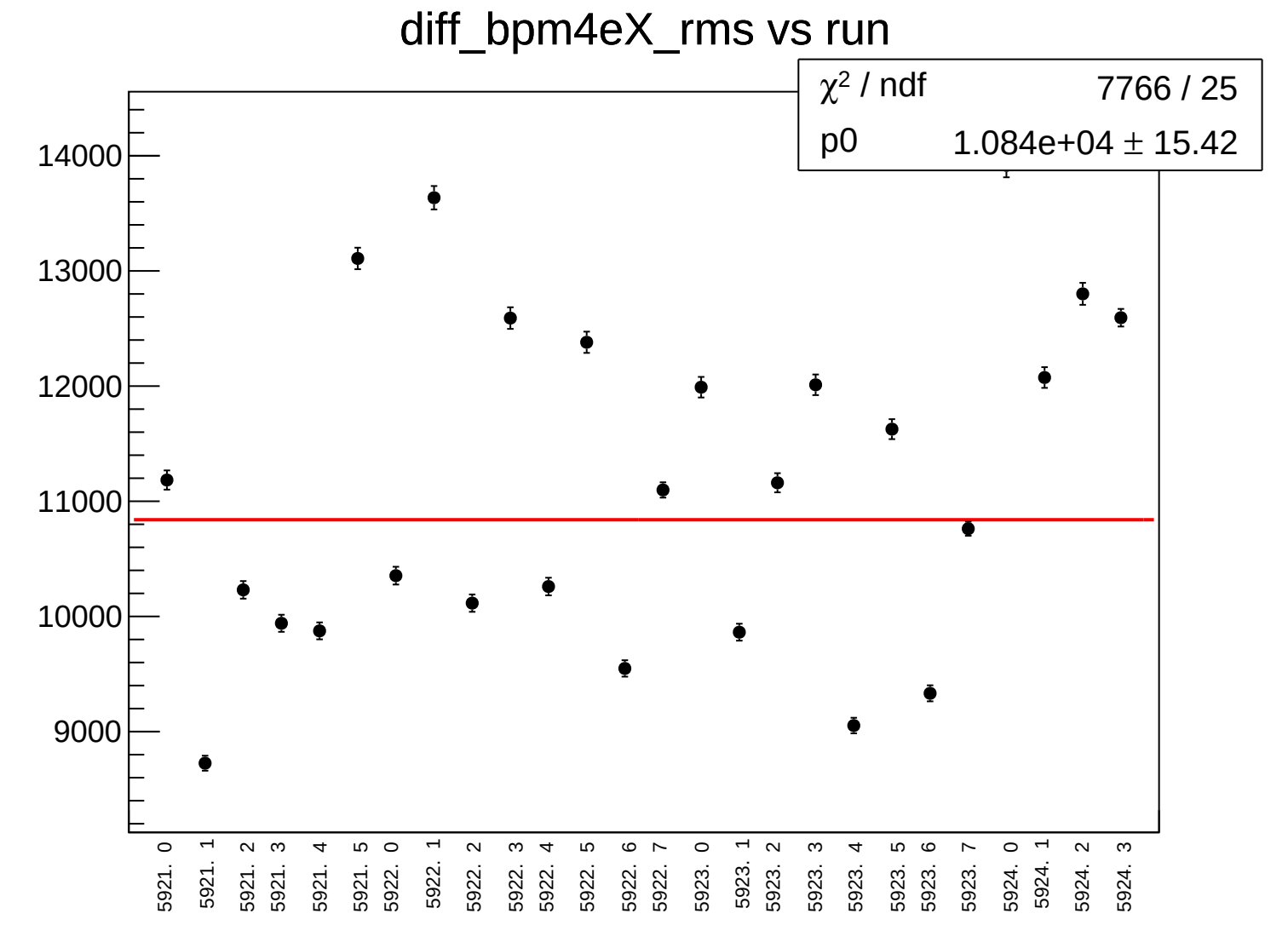

diff_bpm4aY_mean vs run
χ² / ndf 29.97 / 25
p0 −31.47 ± 27.55
600
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 202.9
Std Dev 192.3
2
1
0
−1
−2

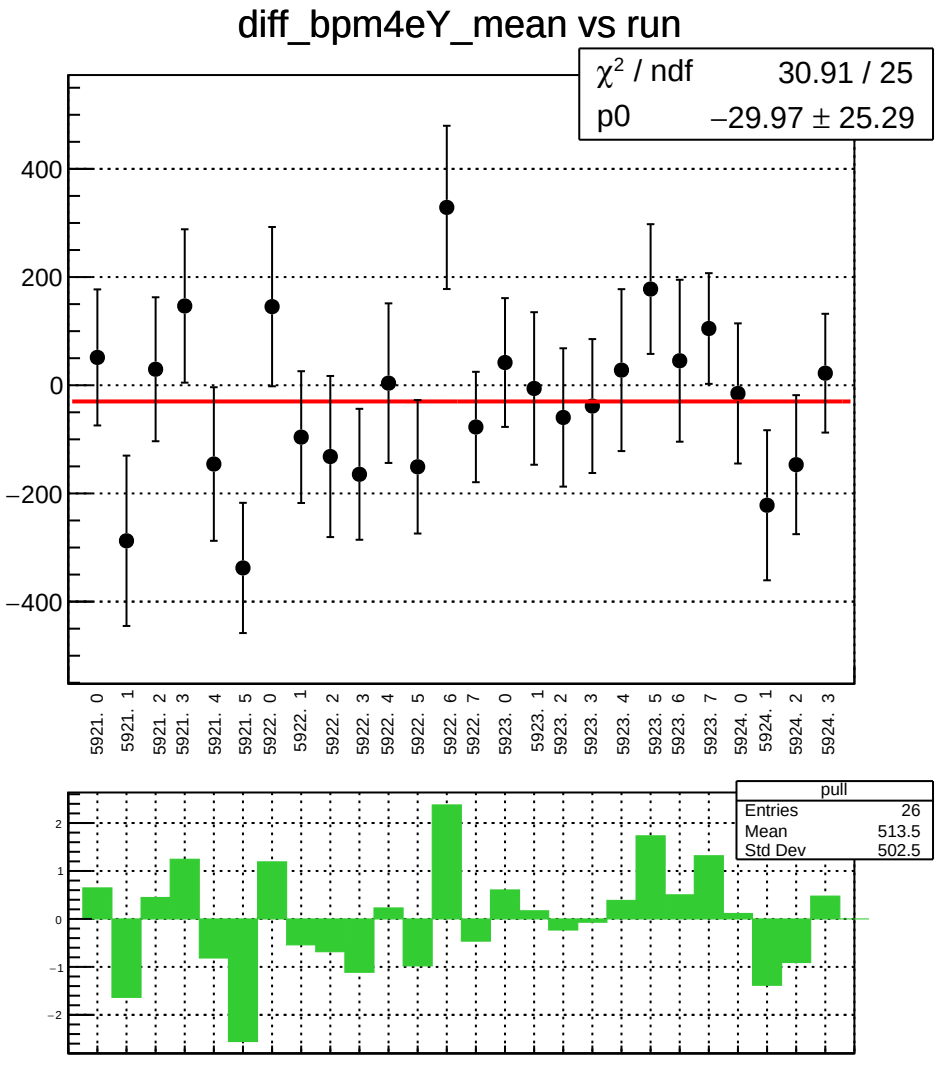

pull1D
Entries 26
Mean 0.004965
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

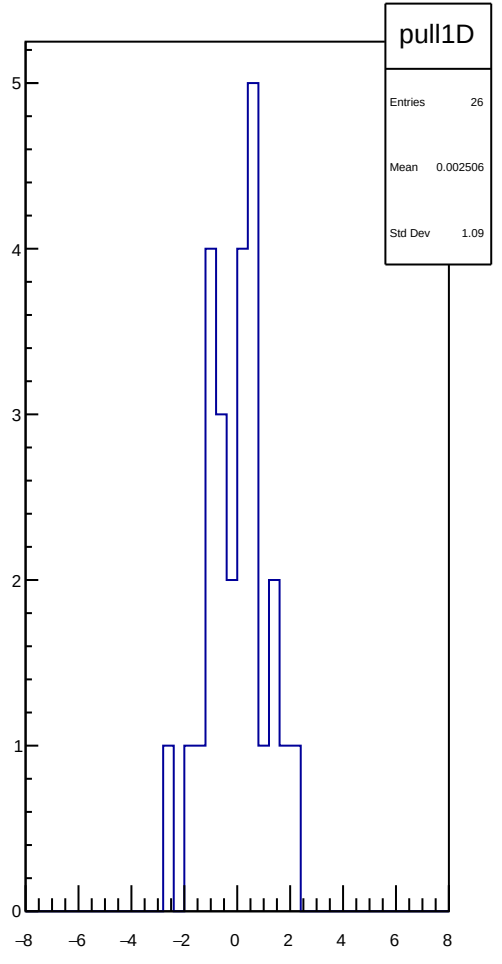

diff_bpm4aY_rms vs run
χ² / ndf 3629 / 25
p0 1.375e+04 ± 19.48
16000
15000
14000
13000
12000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

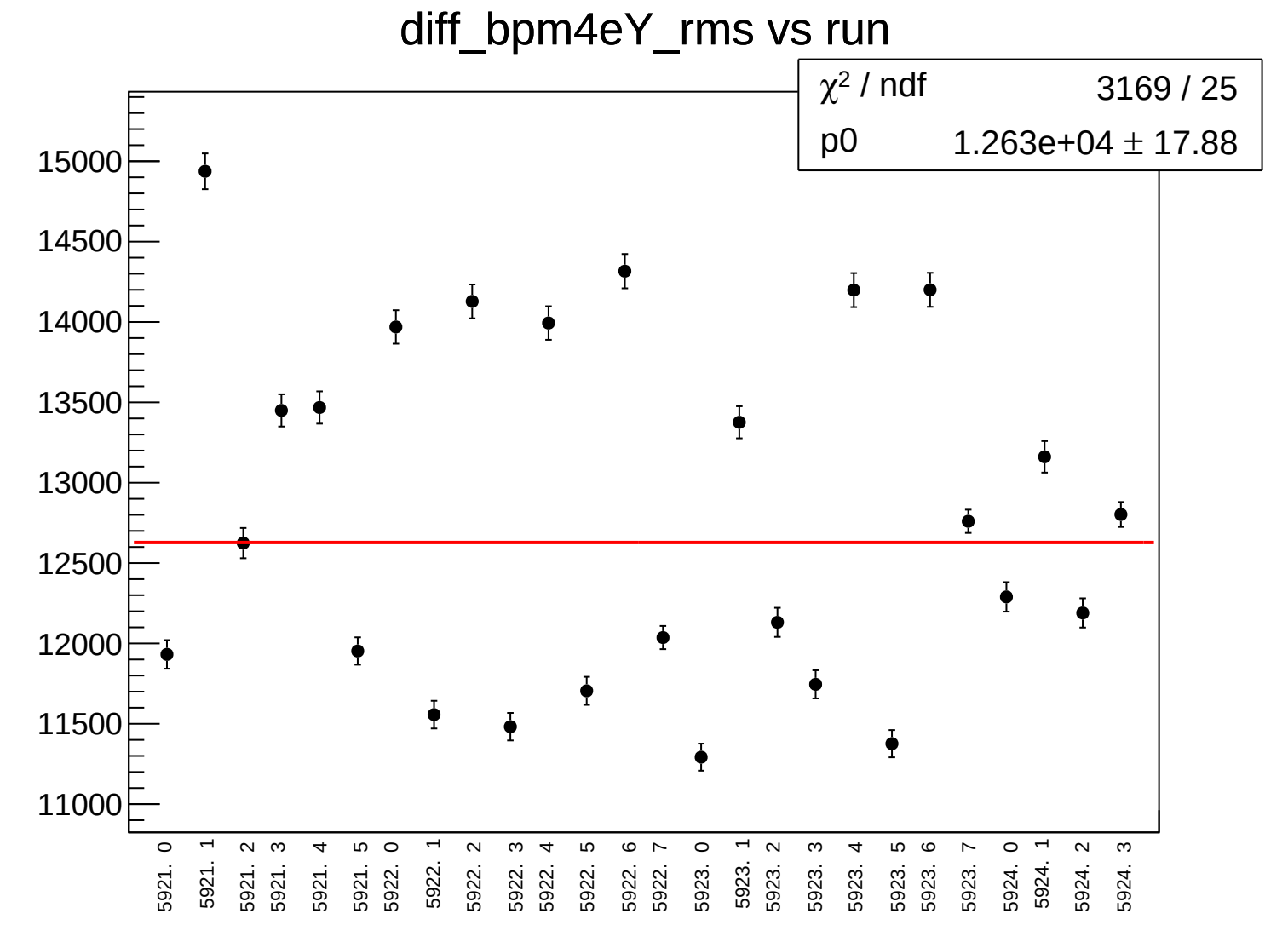

diff_bpm4eX_mean vs run
χ² / ndf 18.84 / 25
p0 −14.49 ± 21.81
300
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 457.1
Std Dev 441.5
1
0.5
0
−0.5
−1
−1.5

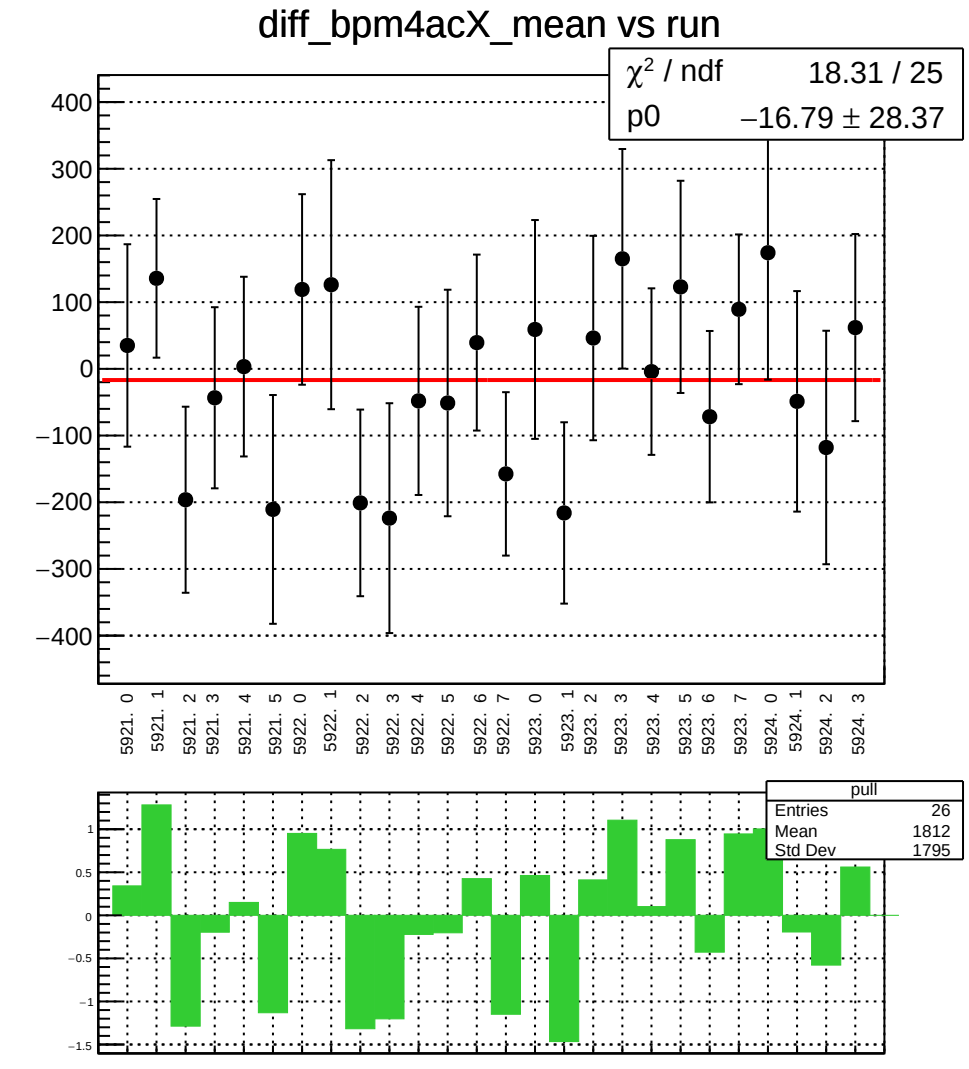

pull1D
Entries 26
Mean 0.002783
Std Dev 0.8513
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

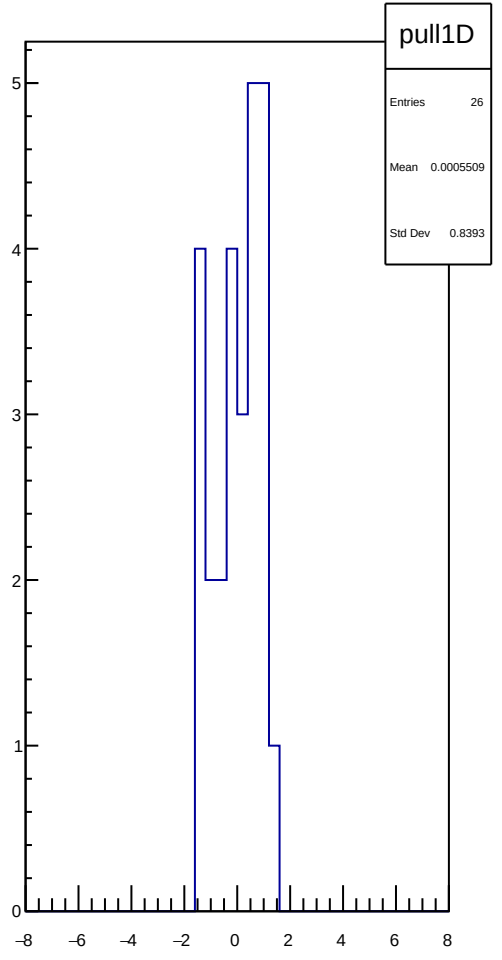

diff_bpm4eX_rms vs run
χ² / ndf 7766 / 25
p0 1.084e+04 ± 15.42
14000
13000
12000
11000
10000
9000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

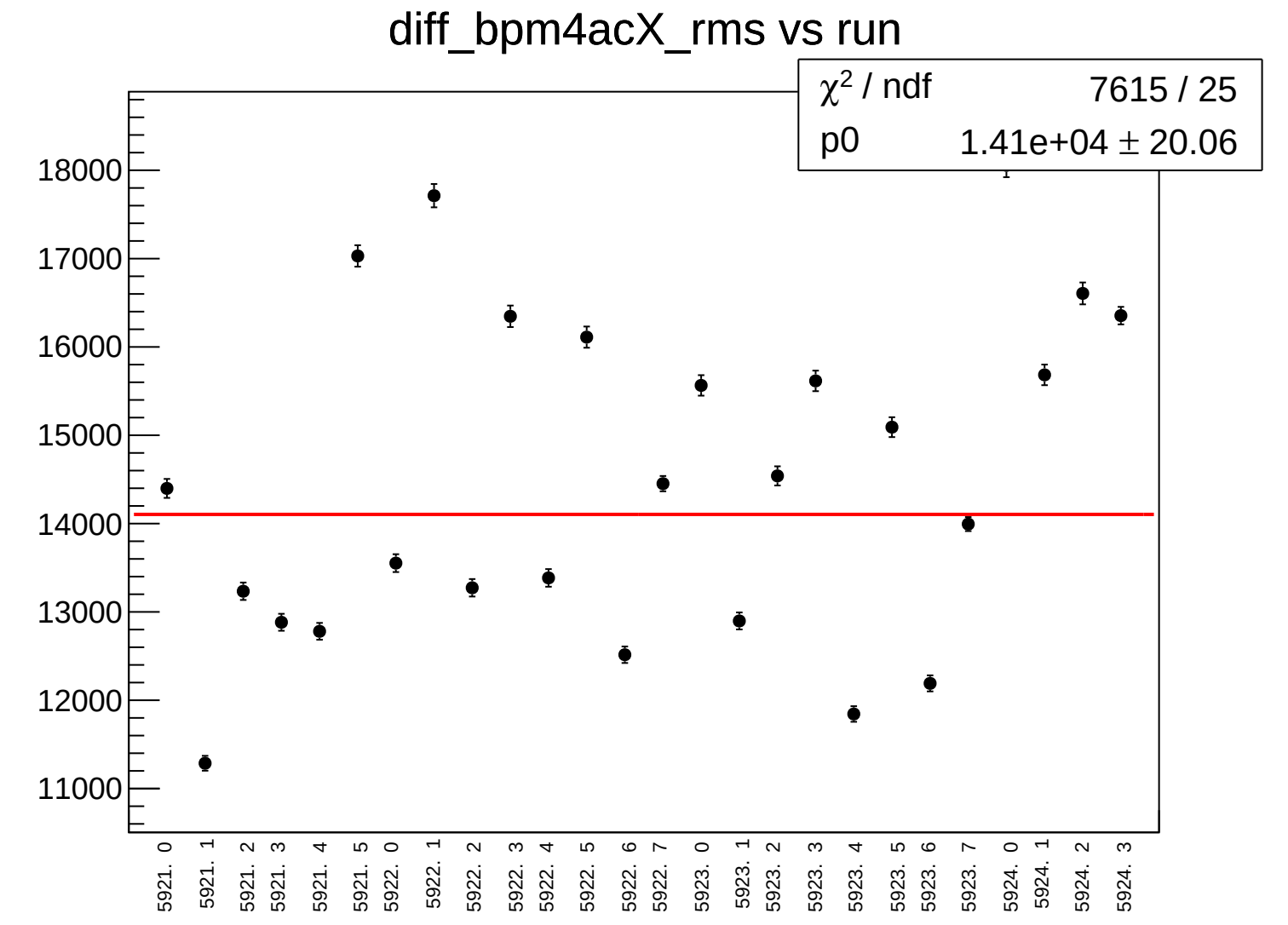

diff_bpm4eY_mean vs run
χ² / ndf 30.91 / 25
p0 −29.97 ± 25.29
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 513.5
Std Dev 502.5
2
1
0
−1
−2

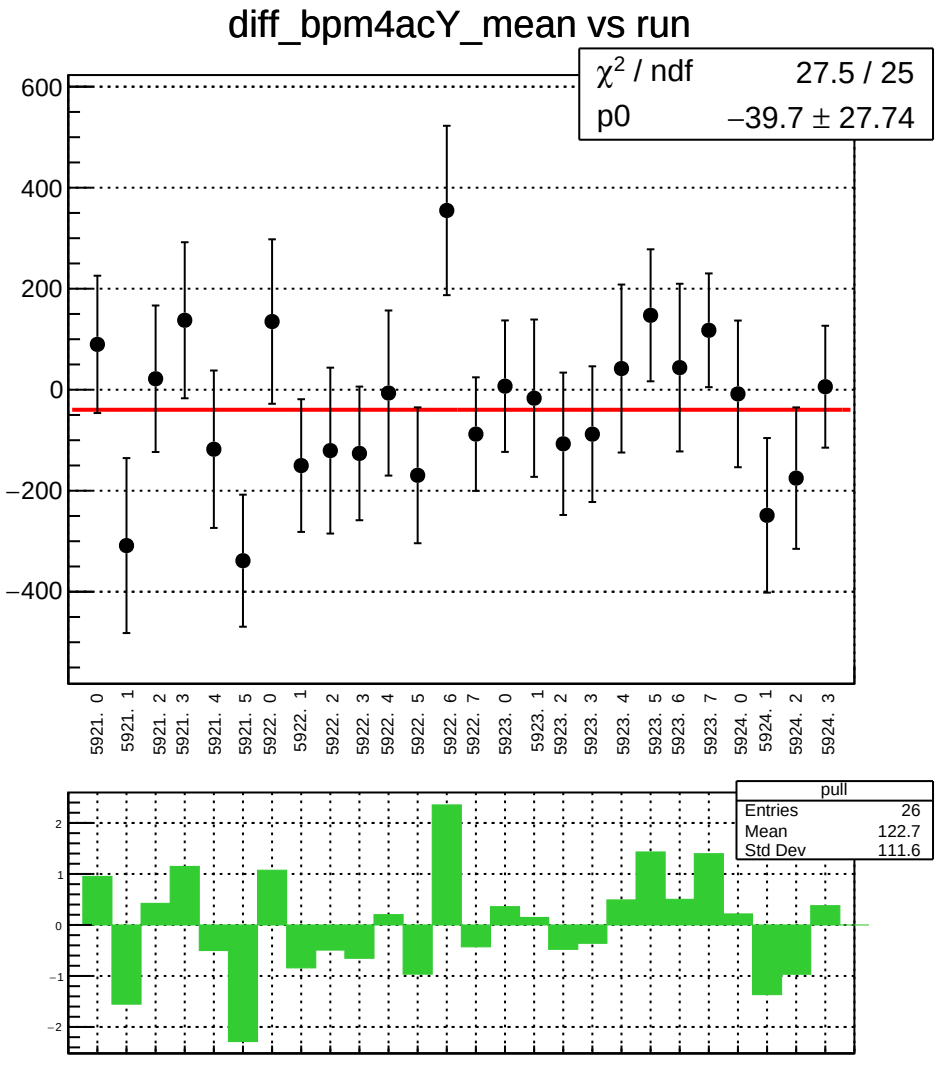

pull1D
Entries 26
Mean 0.002506
Std Dev 1.09
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

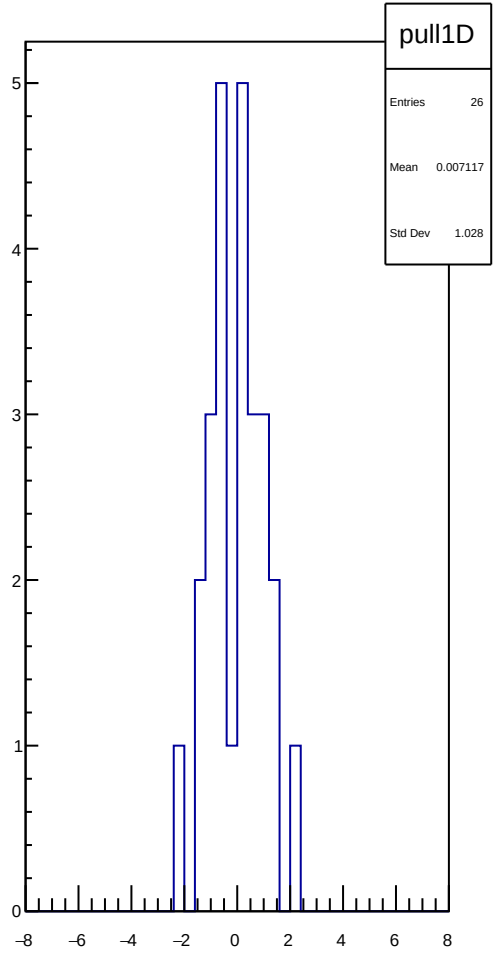

diff_bpm4eY_rms vs run
χ² / ndf 3169 / 25
p0 1.263e+04 ± 17.88
15000
14500
14000
13500
13000
12500
12000
11500
11000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

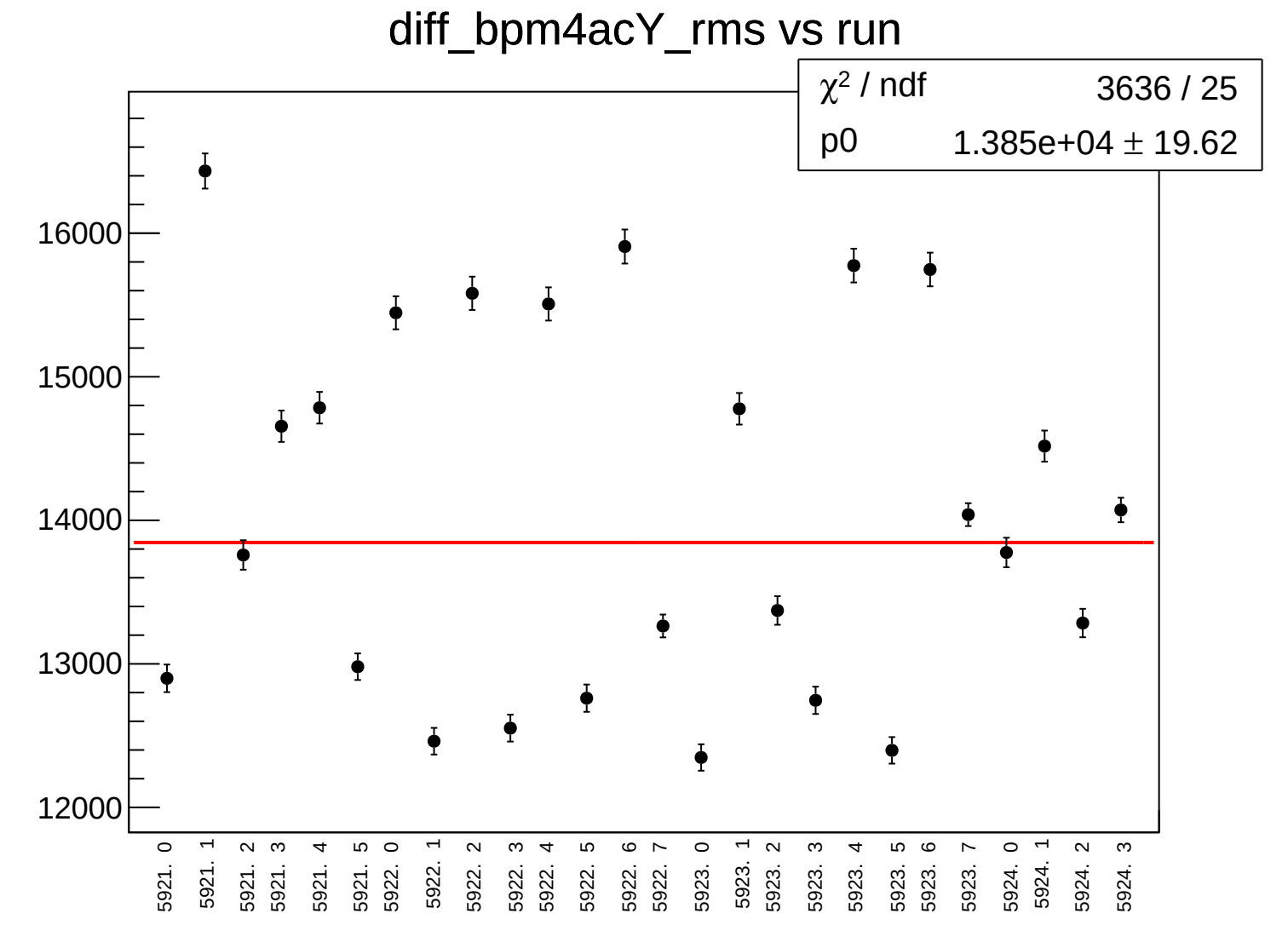

diff_bpm4acX_mean vs run
χ² / ndf 18.31 / 25
p0 −16.79 ± 28.37
400
300
200
100
0
−100
−200
−300
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1812
Std Dev 1795
1
0.5
0
−0.5
−1
−1.5

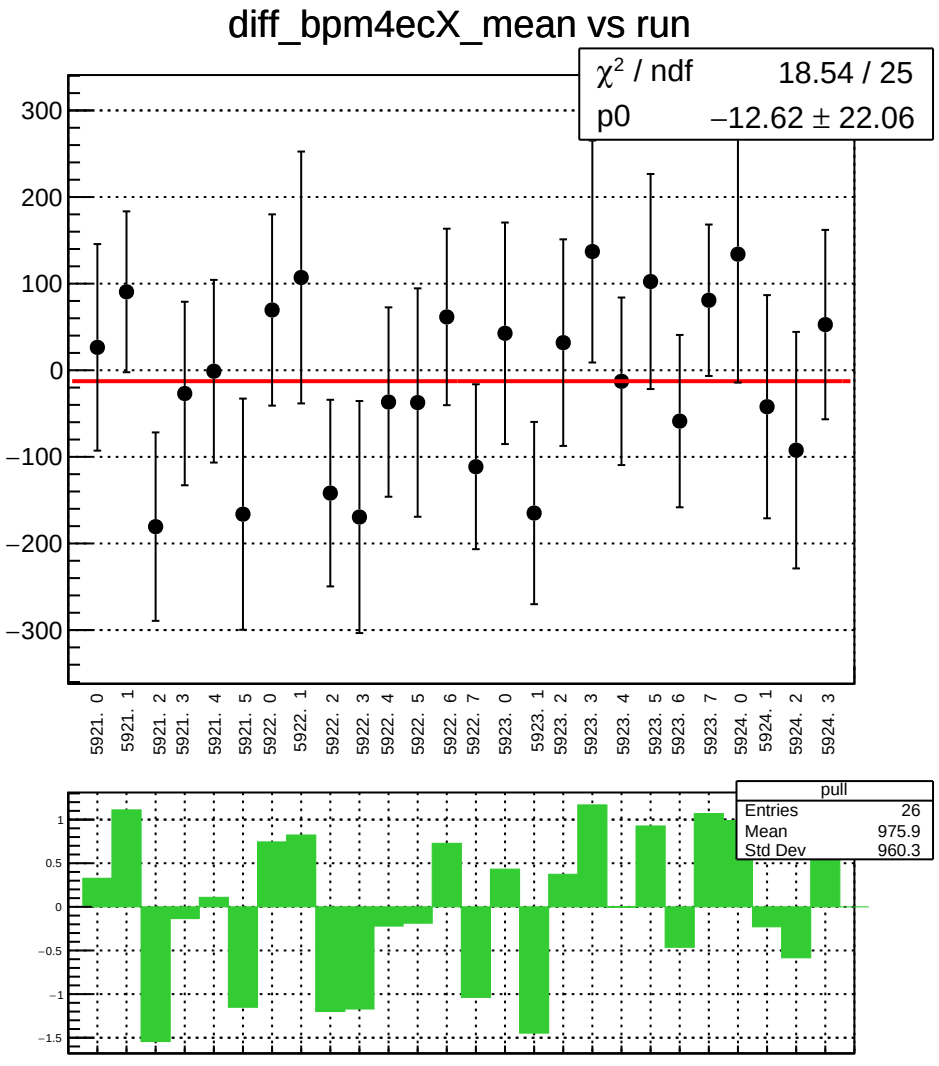

pull1D
Entries 26
Mean 0.0005509
Std Dev 0.8393
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

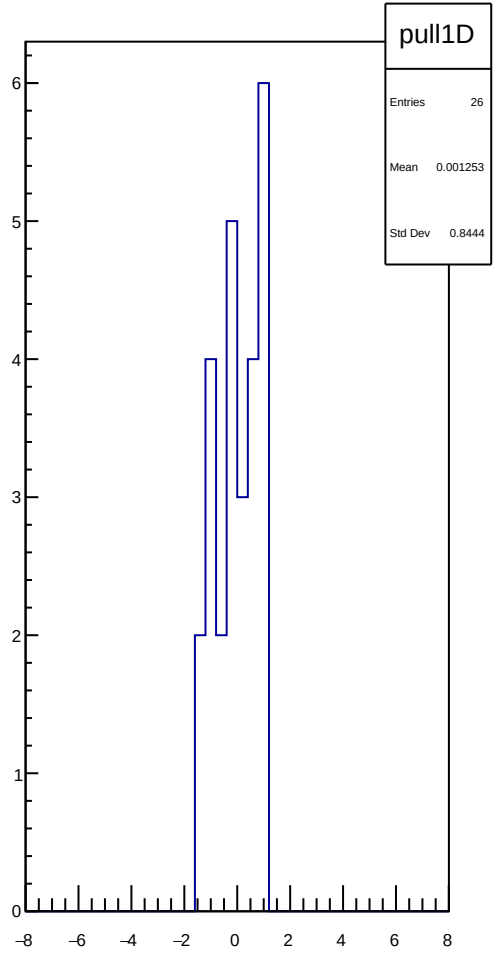

diff_bpm4acX_rms vs run
χ² / ndf 7615 / 25
p0 1.41e+04 ± 20.06
18000
17000
16000
15000
14000
13000
12000
11000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

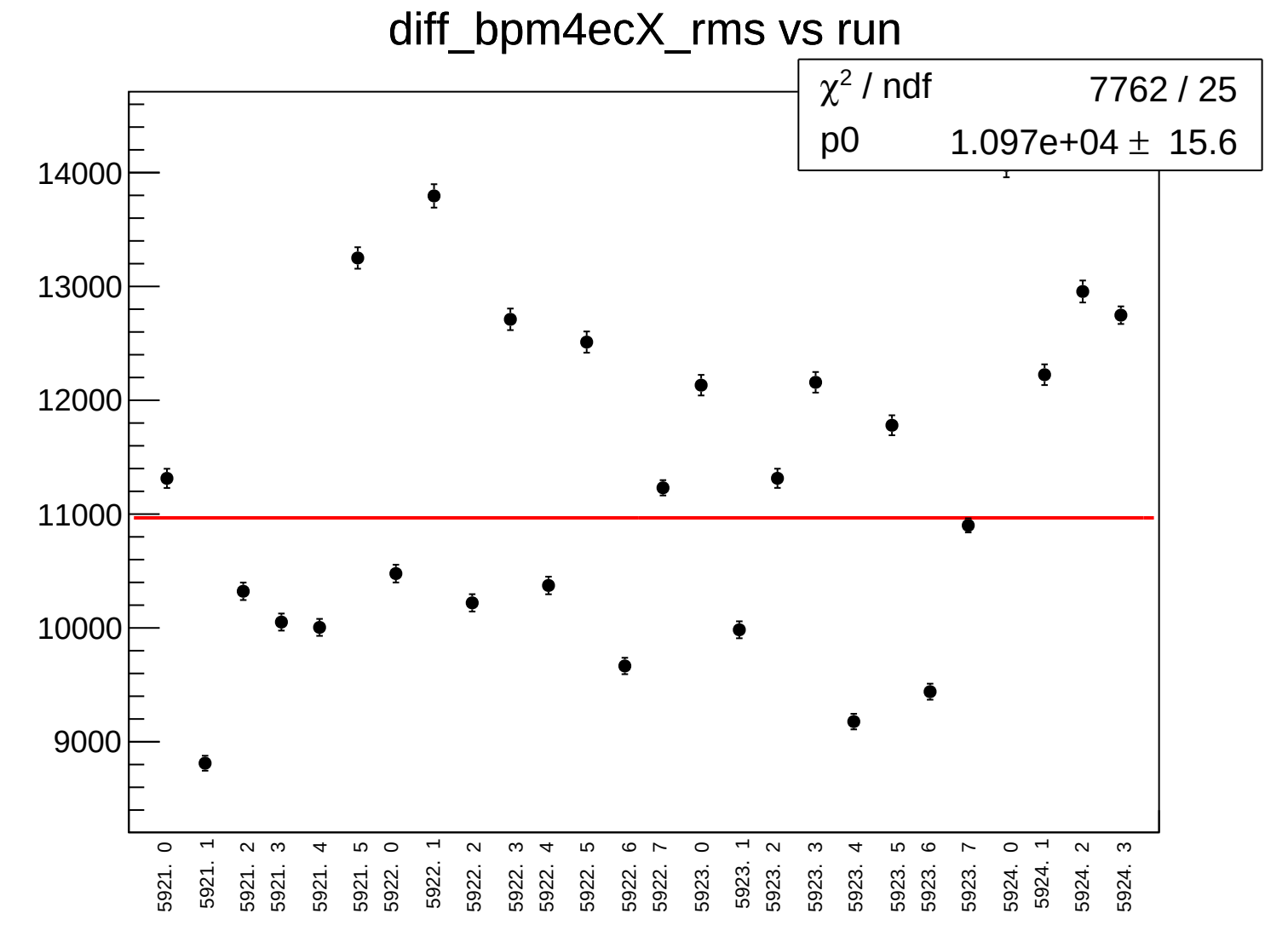

diff_bpm4acY_mean vs run
χ² / ndf 27.5 / 25
p0 −39.7 ± 27.74
600
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 122.7
Std Dev 111.6
2
1
0
−1
−2

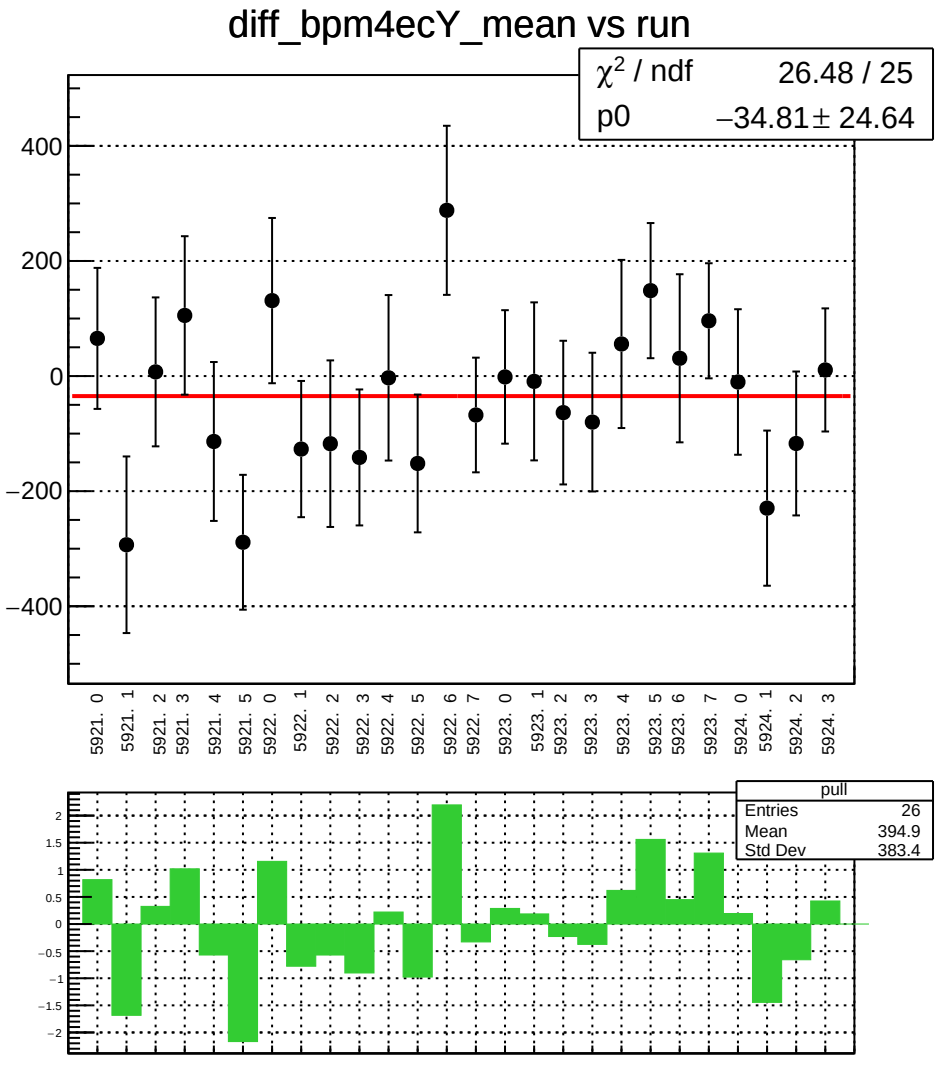

pull1D
Entries 26
Mean 0.007117
Std Dev 1.028
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

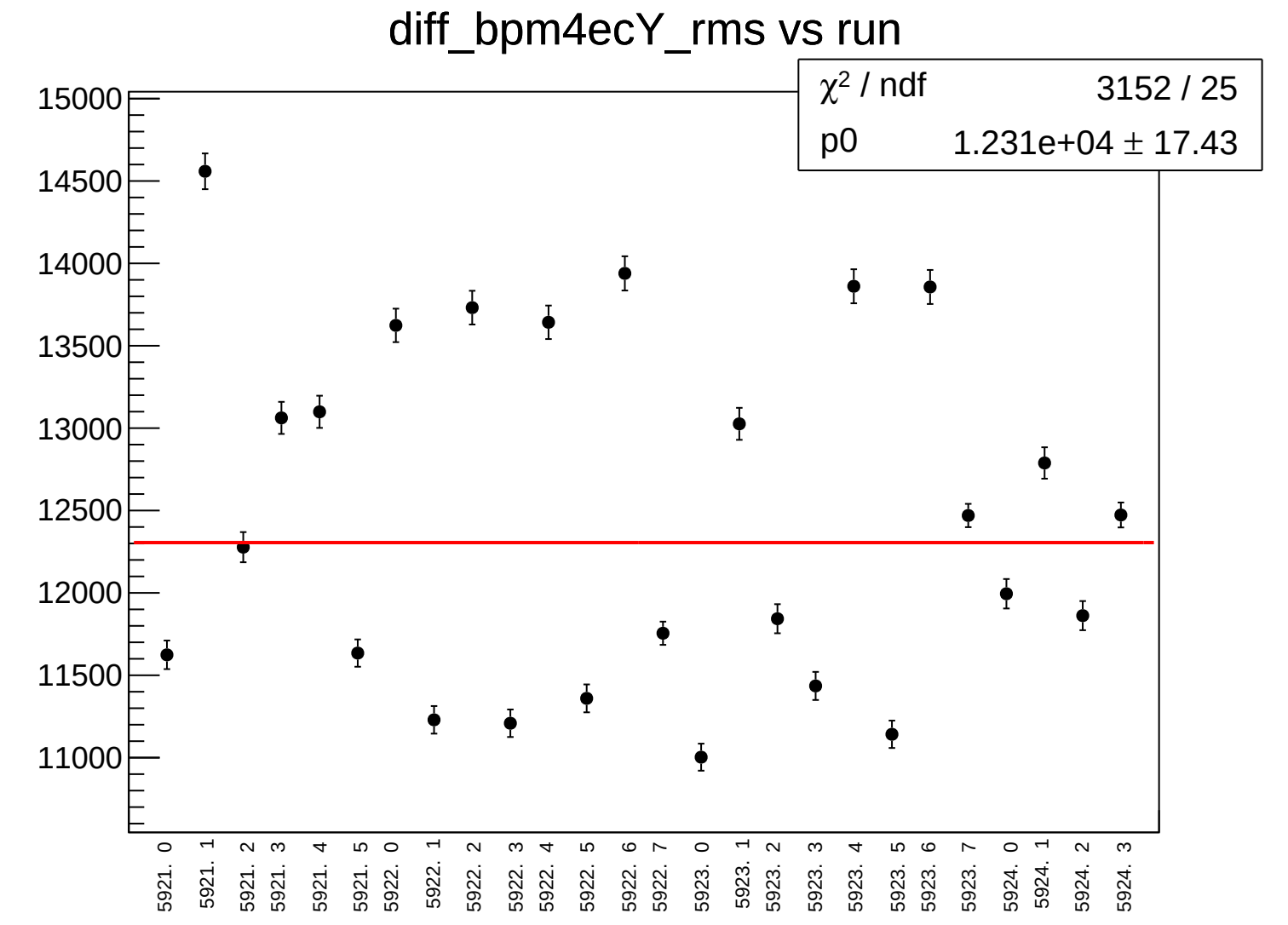

diff_bpm4acY_rms vs run
χ² / ndf 3636 / 25
p0 1.385e+04 ± 19.62
16000
15000
14000
13000
12000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

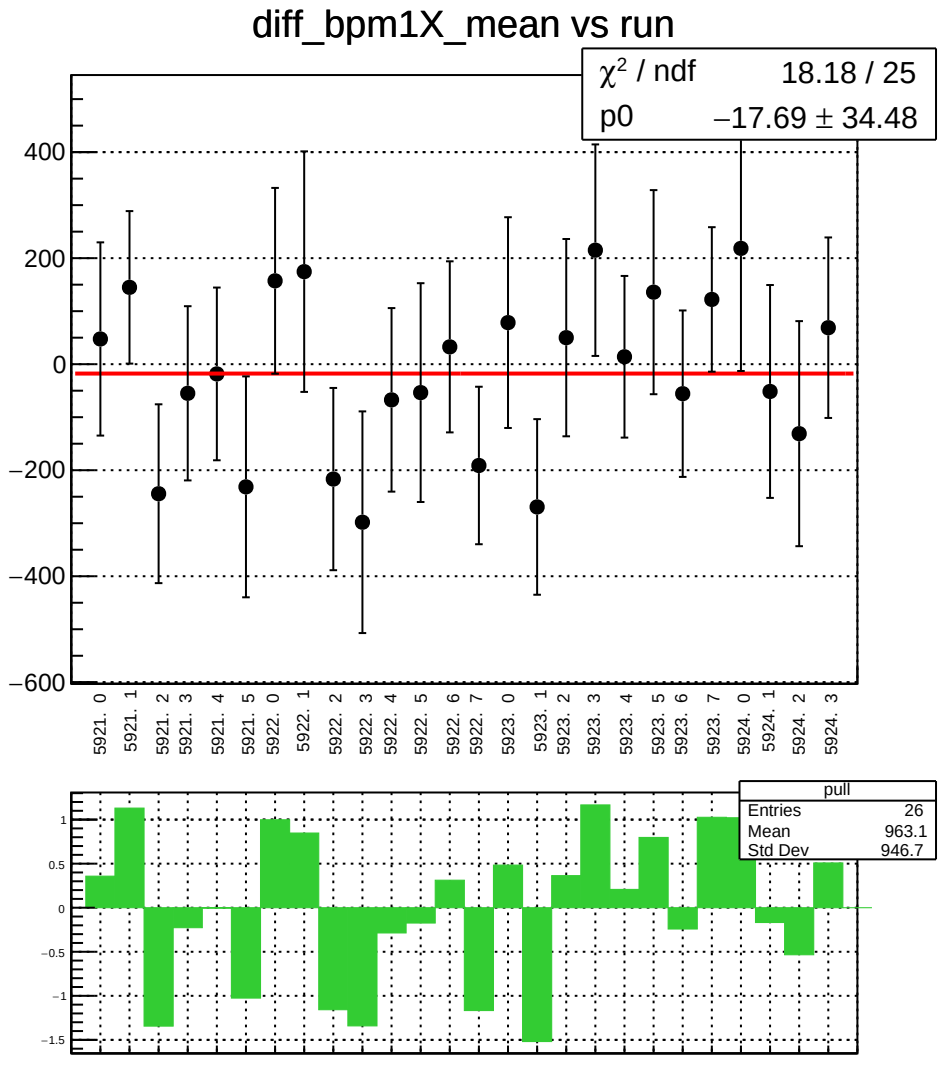

diff_bpm4ecX_mean vs run
χ² / ndf 18.54 / 25
p0 −12.62 ± 22.06
300
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 975.9
Std Dev 960.3
1
0.5
0
−0.5
−1
−1.5

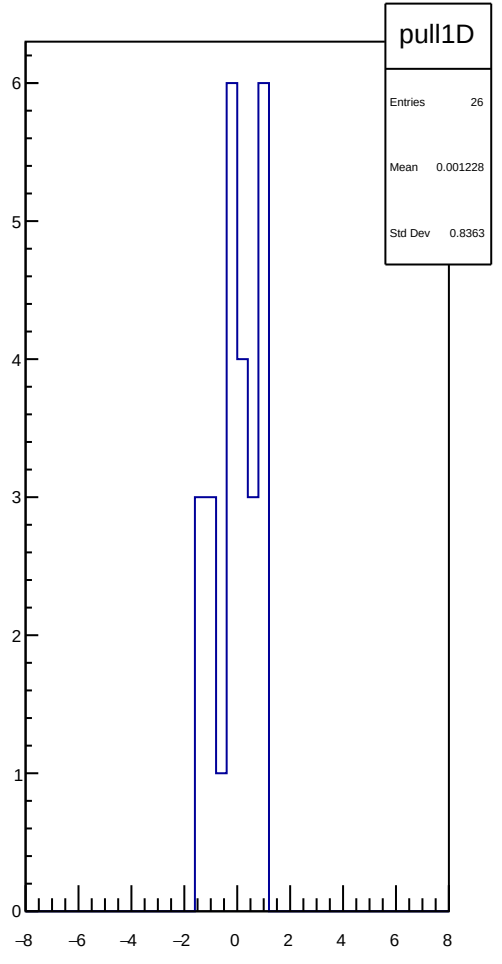

pull1D
Entries 26
Mean 0.001253
Std Dev 0.8444
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

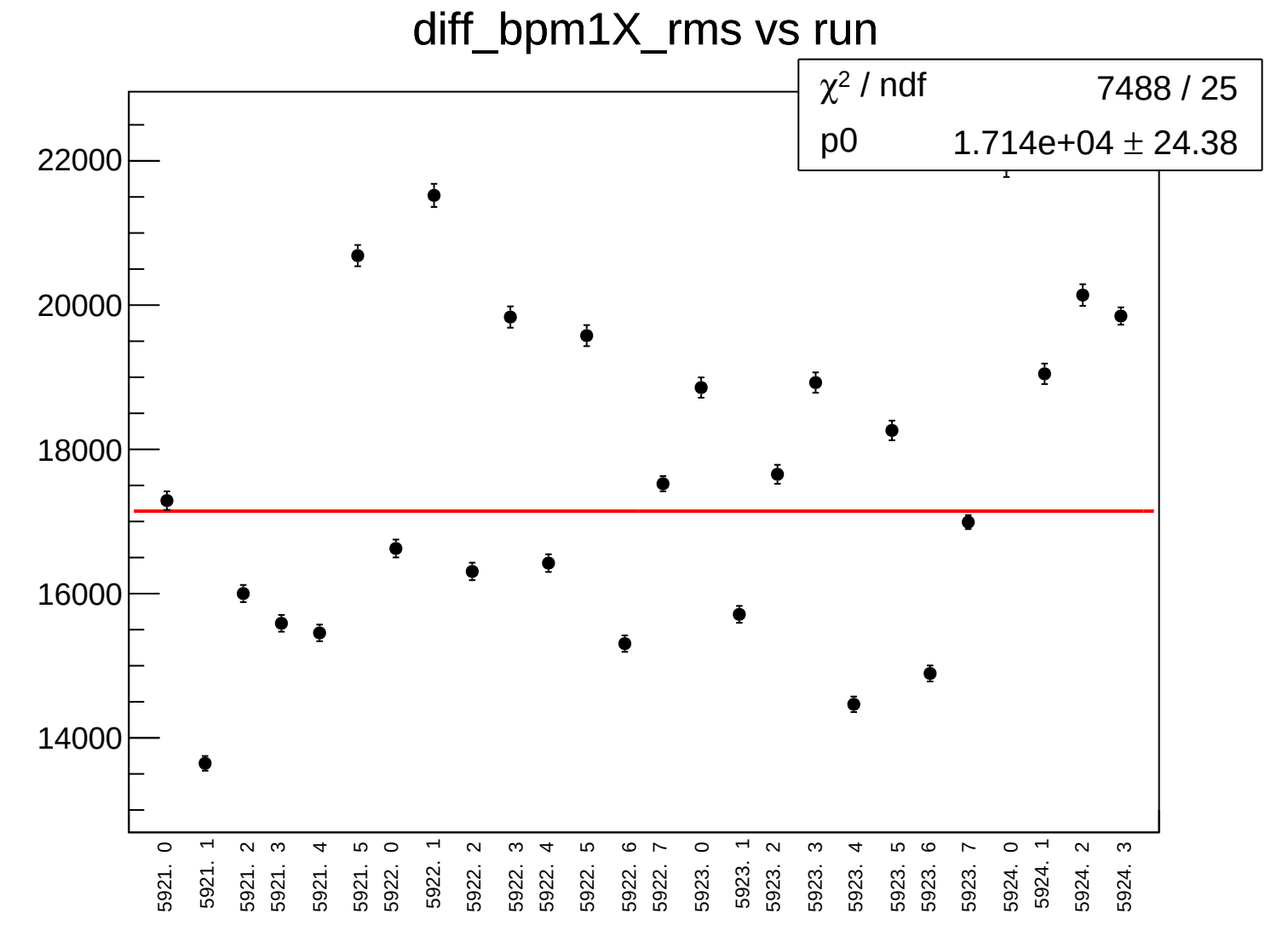

diff_bpm4ecX_rms vs run
χ² / ndf 7762 / 25
p0 1.097e+04 ± 15.6
14000
13000
12000
11000
10000
9000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

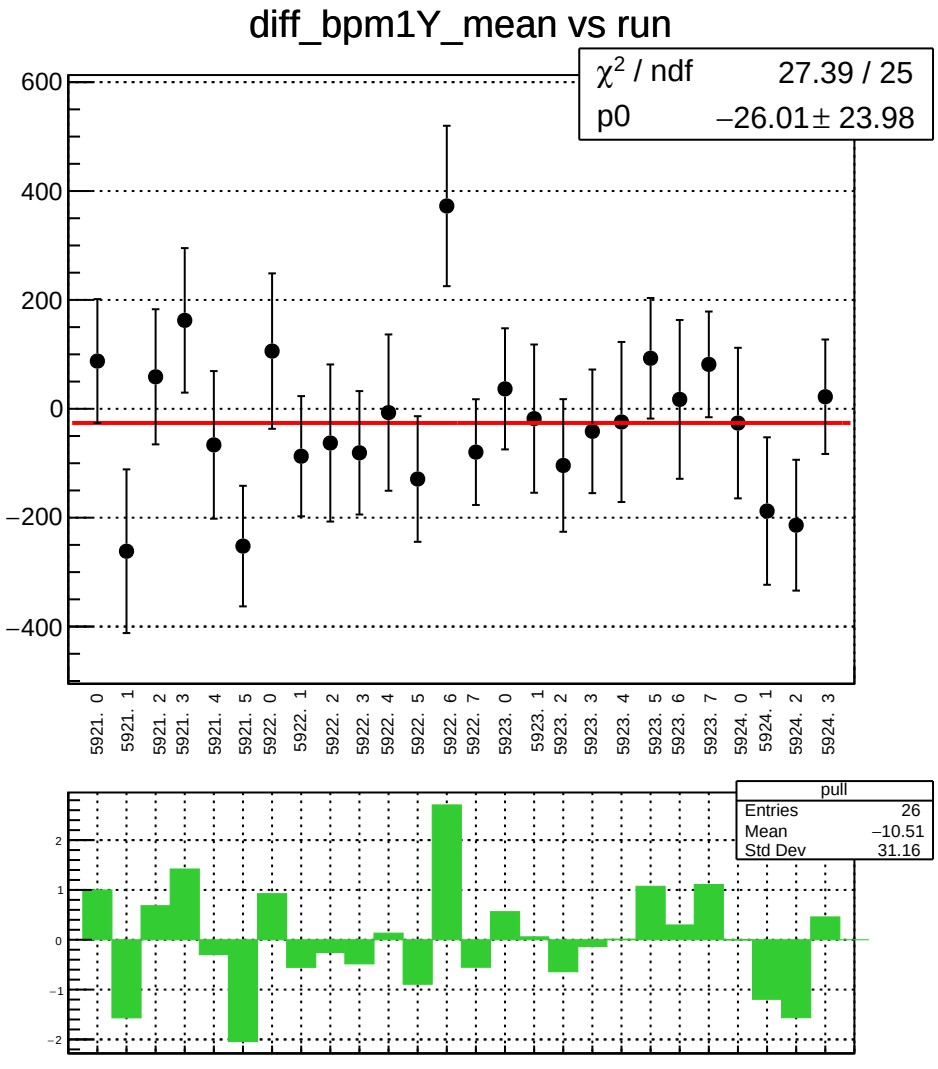

diff_bpm4ecY_mean vs run
χ² / ndf 26.48 / 25
p0 −34.81 ± 24.64
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 394.9
Std Dev 383.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.003039
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

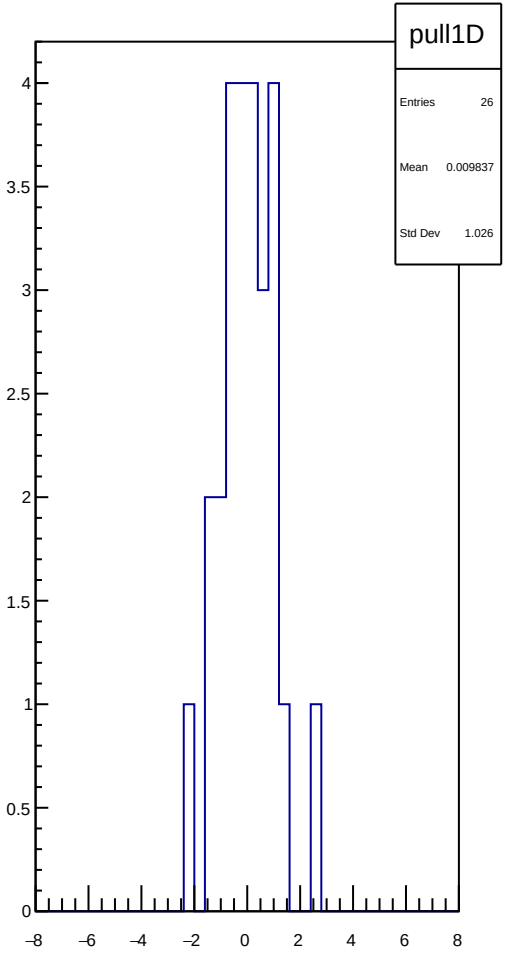

diff_bpm4ecY_rms vs run
χ² / ndf 3152 / 25
p0 1.231e+04 ± 17.43
15000
14500
14000
13500
13000
12500
12000
11500
11000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

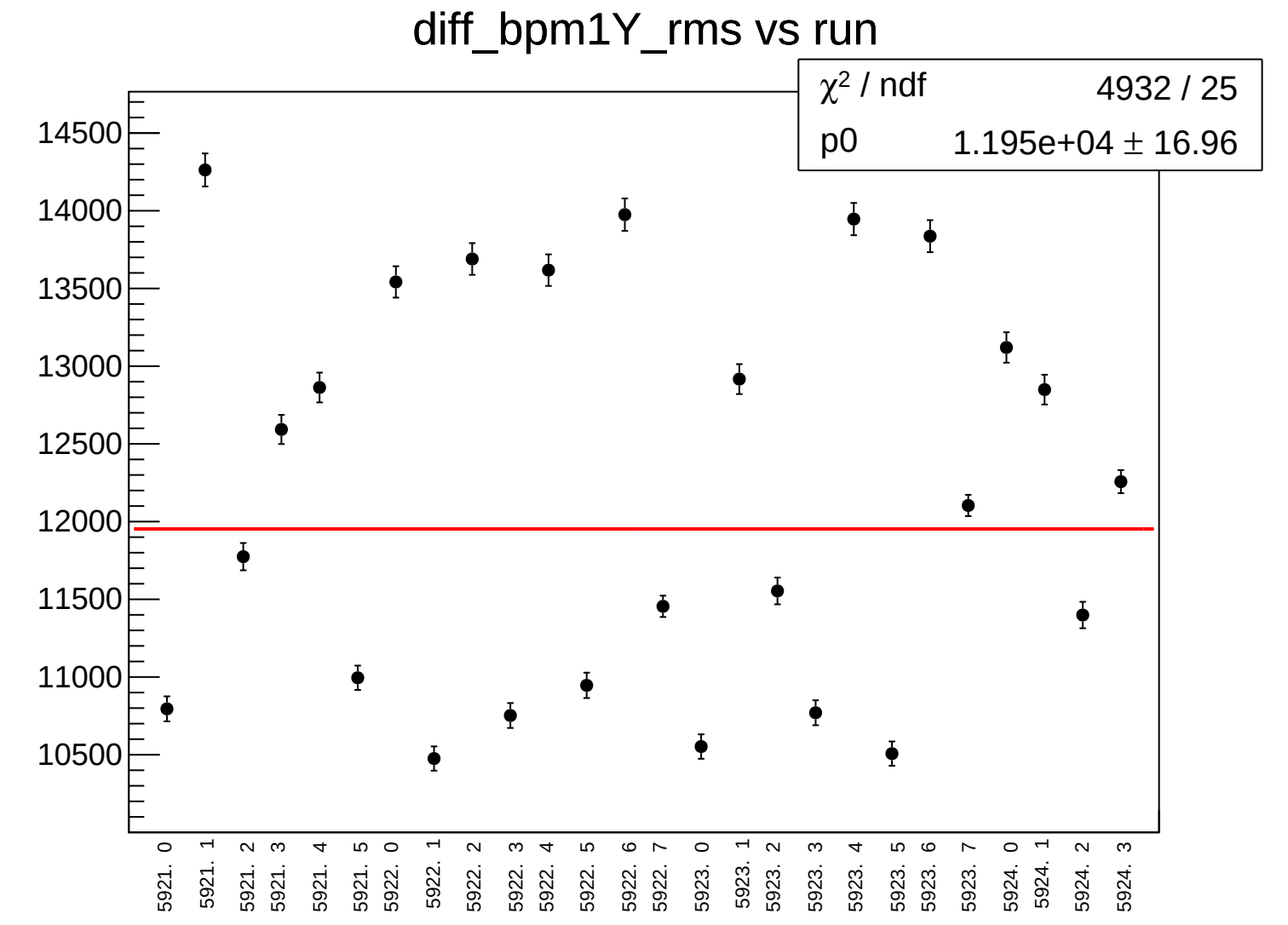

diff_bpm1X_mean vs run
χ² / ndf 18.18 / 25
p0 −17.69 ± 34.48
400
200
0
−200
−400
−600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 963.1
Std Dev 946.7
1
0.5
0
−0.5
−1
−1.5

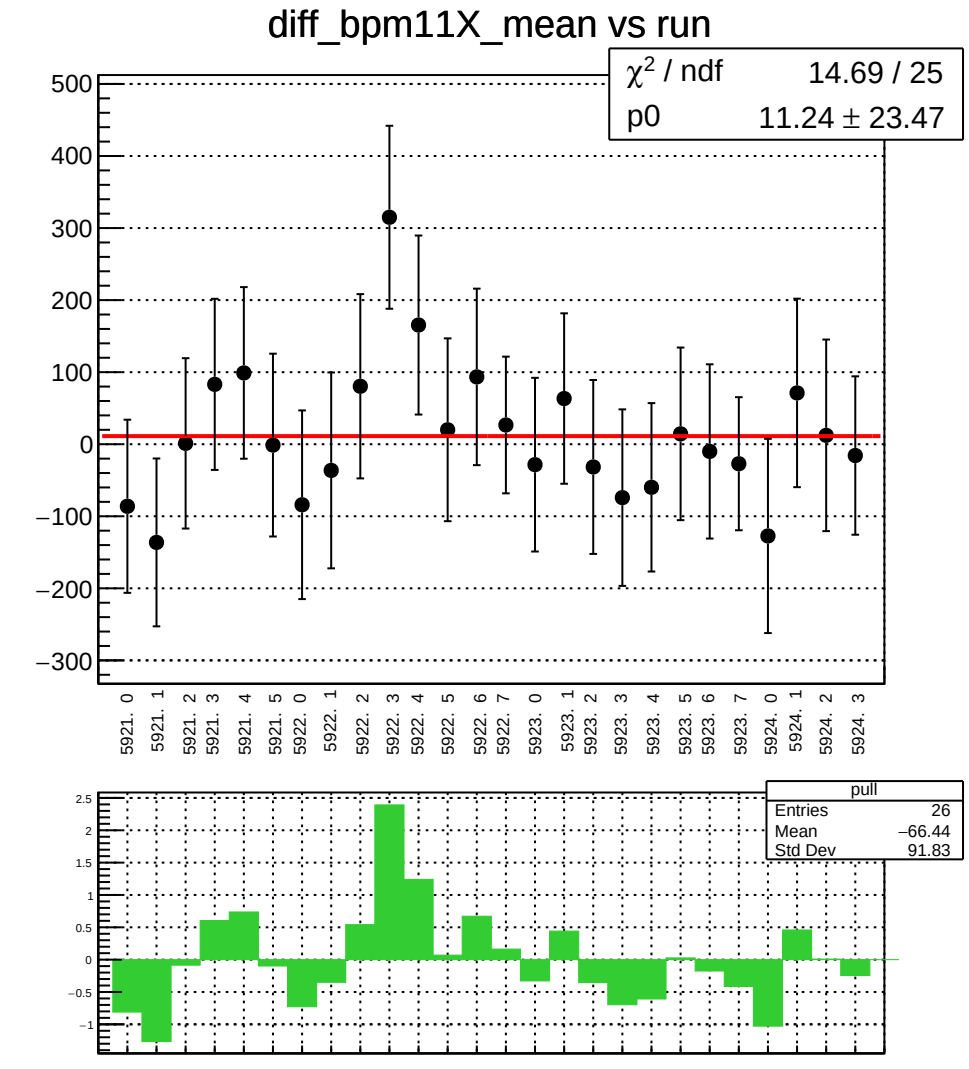

pull1D
Entries 26
Mean 0.001228
Std Dev 0.8363
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

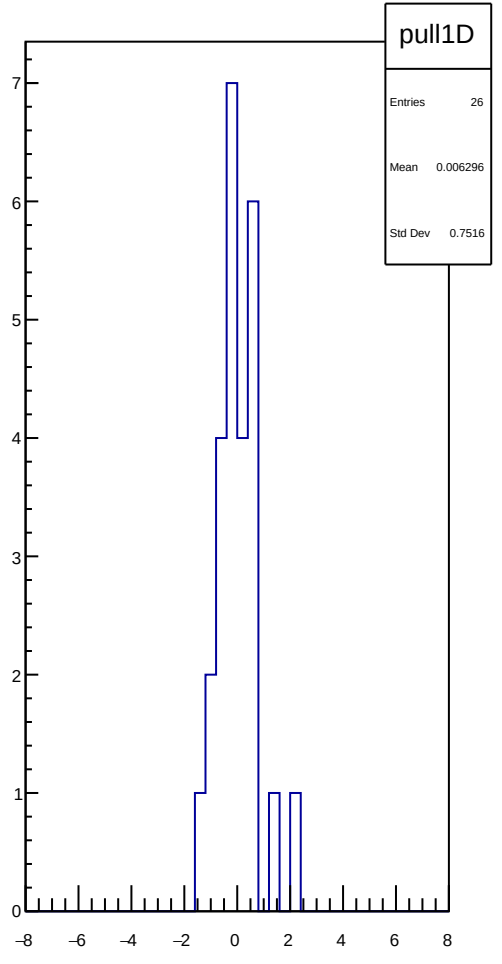

diff_bpm1X_rms vs run
χ² / ndf 7488 / 25
p0 1.714e+04 ± 24.38
22000
20000
18000
16000
14000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

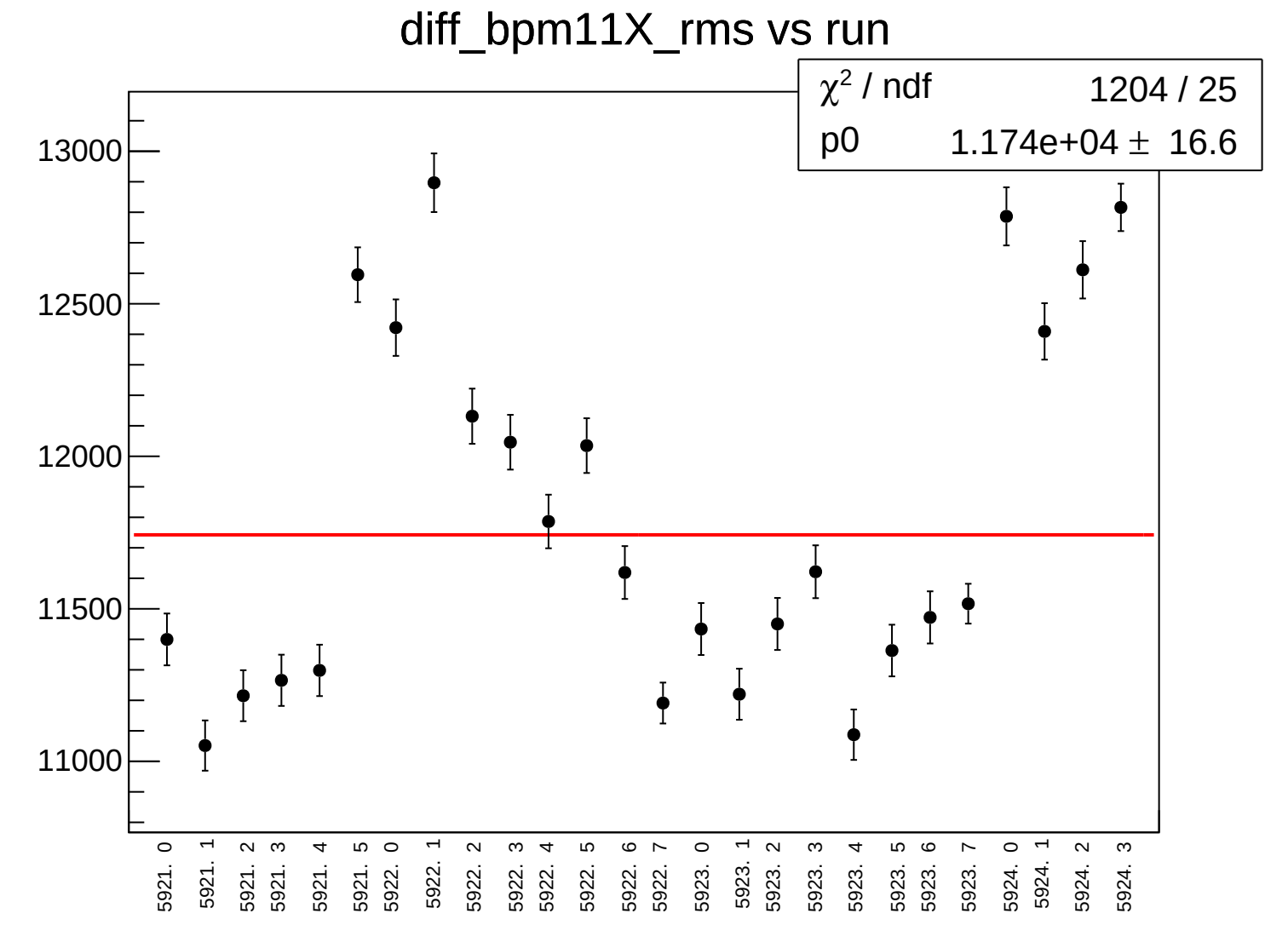

diff_bpm1Y_mean vs run
χ² / ndf 27.39 / 25
p0 −26.01 ± 23.98
600
400
200
0
−200
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −10.51
Std Dev 31.16
2
1
0
−1
−2

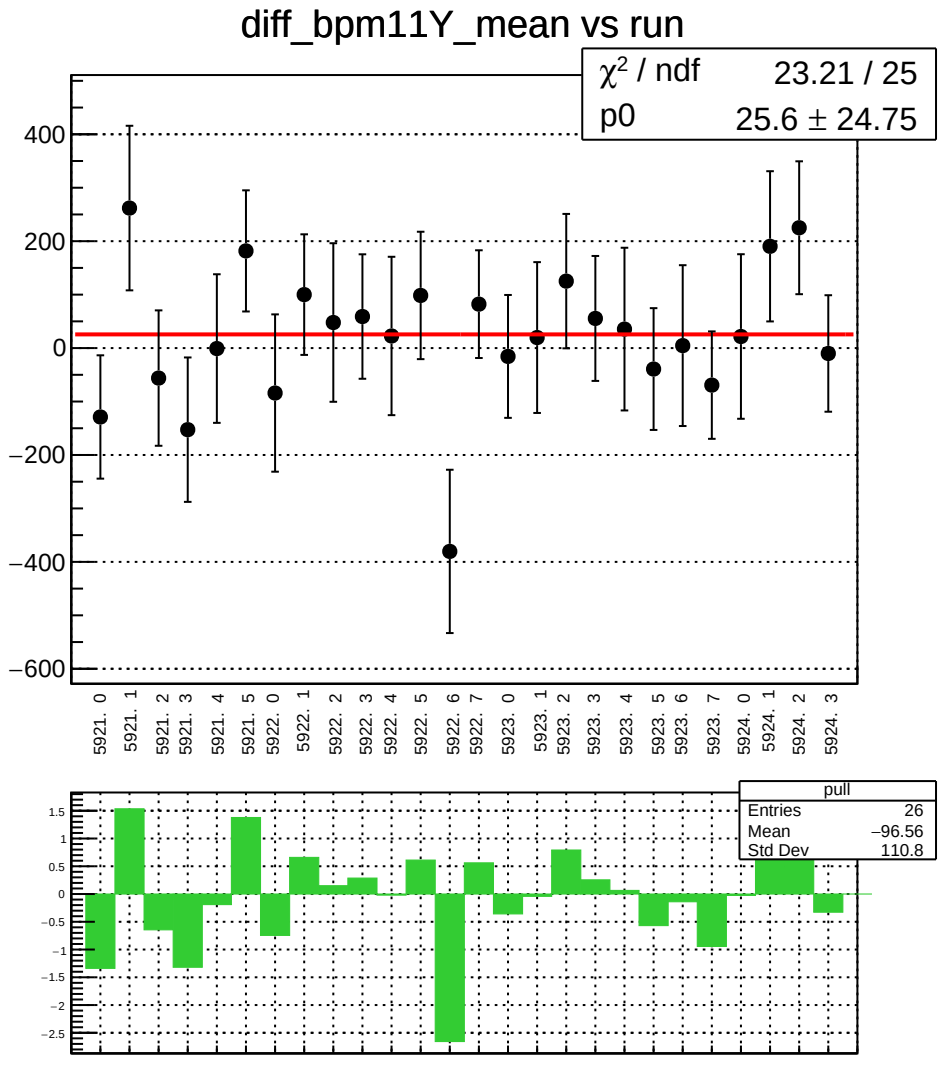

pull1D
Entries 26
Mean 0.009837
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

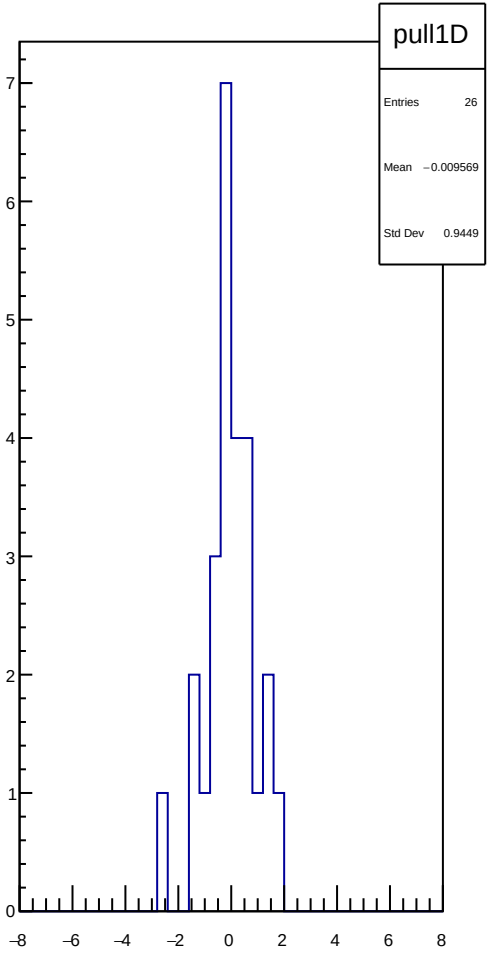

diff_bpm1Y_rms vs run
χ² / ndf 4932 / 25
p0 1.195e+04 ± 16.96
14500
14000
13500
13000
12500
12000
11500
11000
10500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

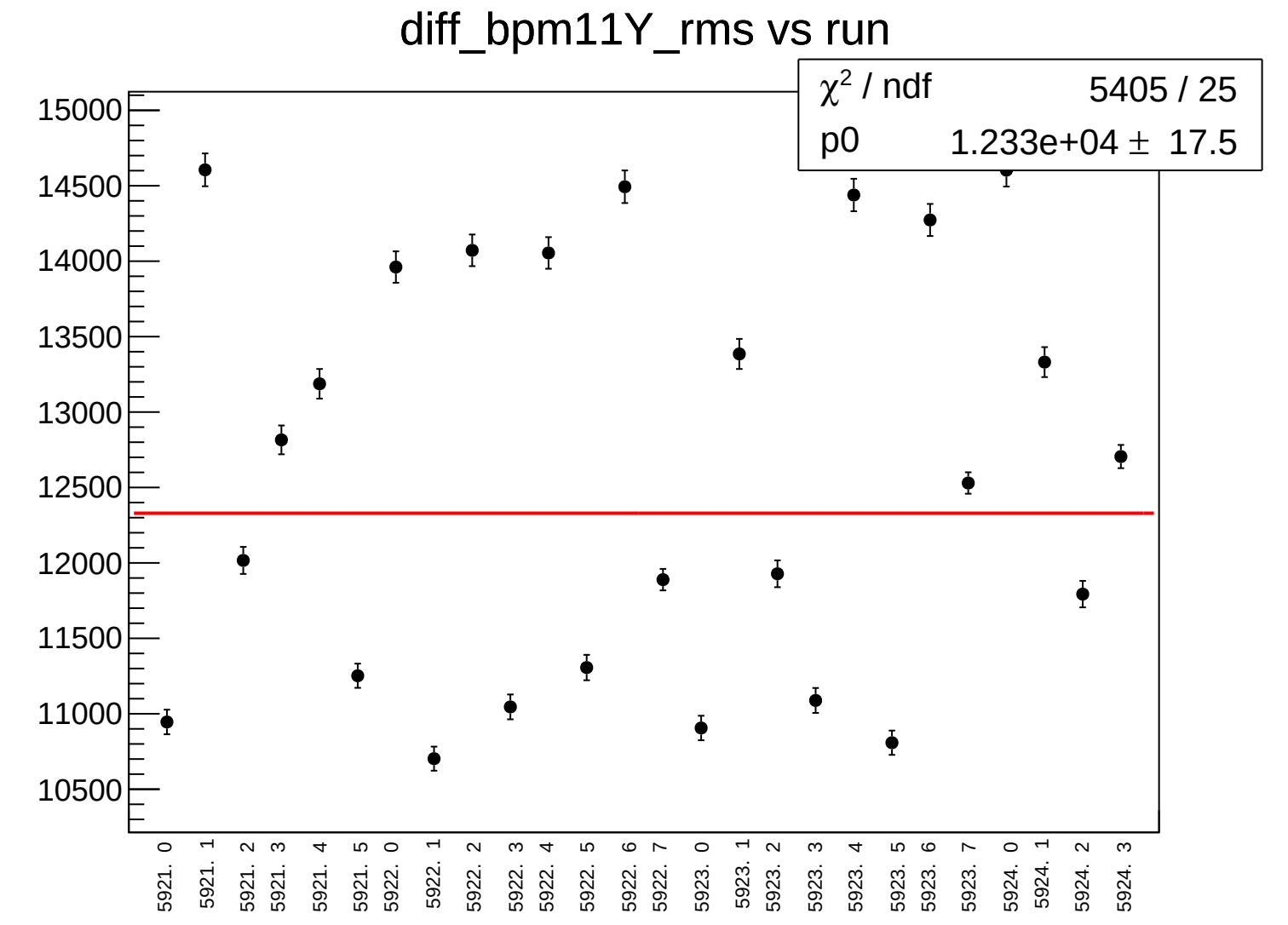

diff_bpm11X_mean vs run
χ² / ndf 14.69 / 25
p0 11.24 ± 23.47
500
400
300
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −66.44
Std Dev 91.83
2.5
2
1.5
1
0.5
0
−0.5
−1

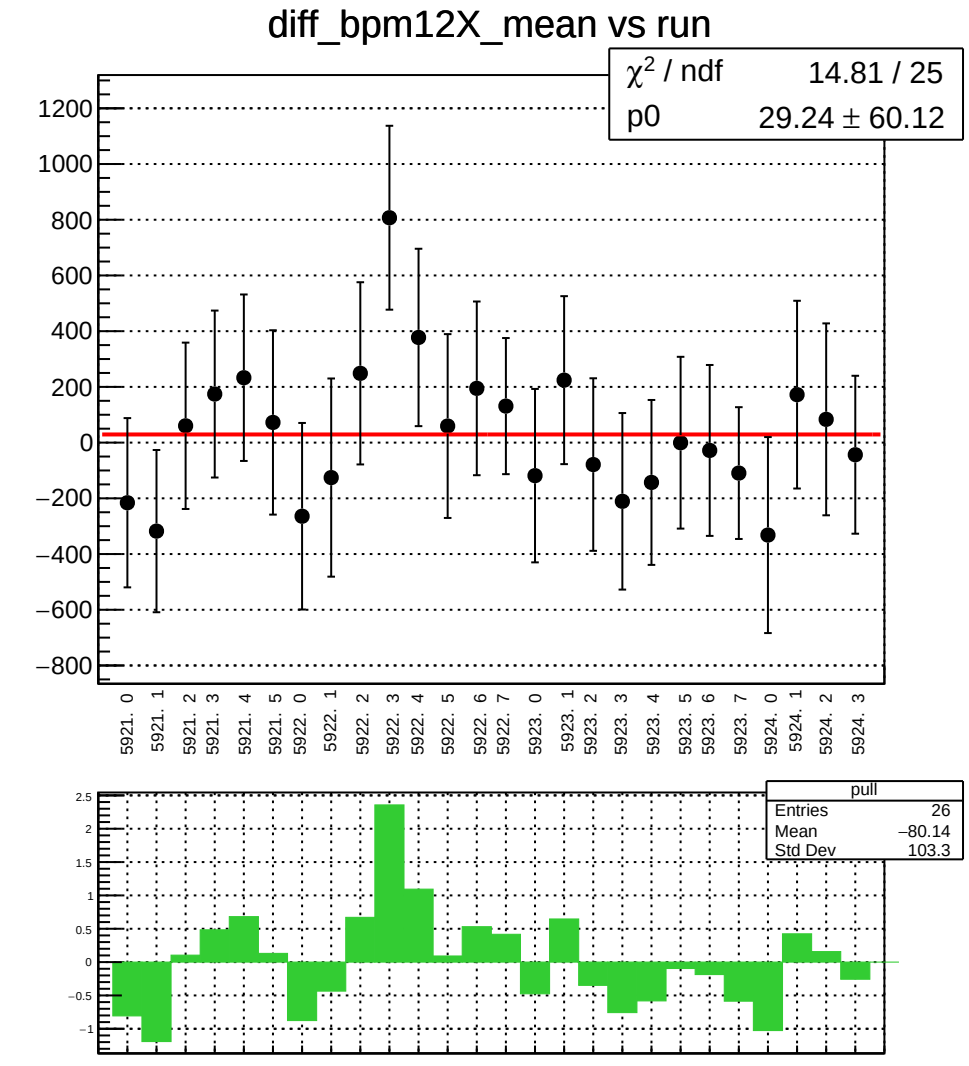

pull1D
Entries 26
Mean 0.006296
Std Dev 0.7516
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

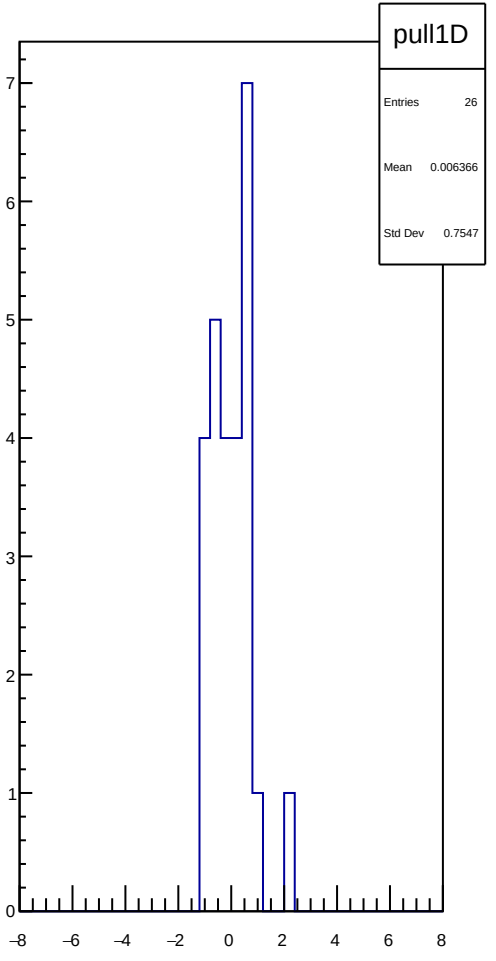

diff_bpm11X_rms vs run
χ² / ndf 1204 / 25
p0 1.174e+04 ± 16.6
13000
12500
12000
11500
11000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

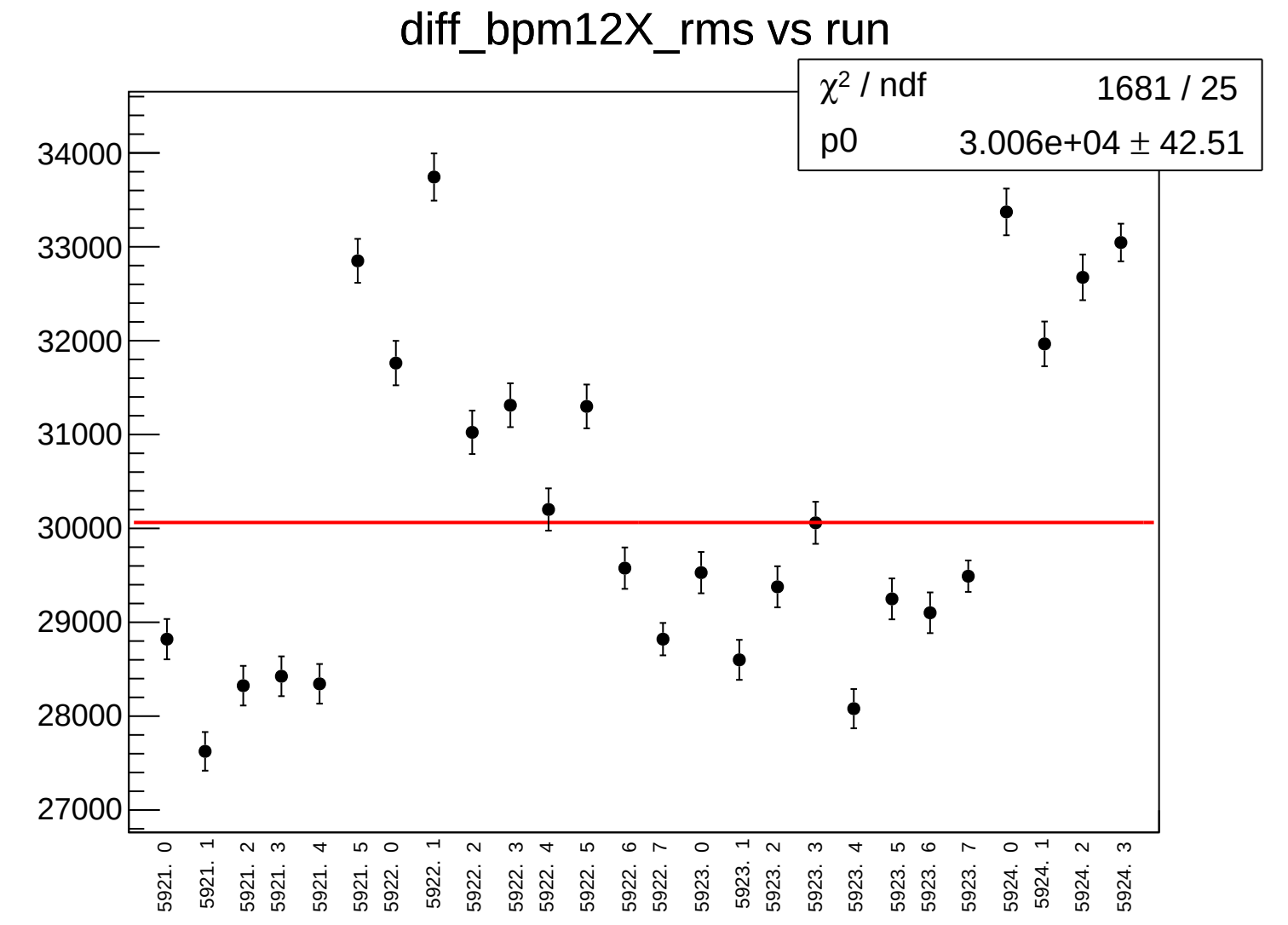

diff_bpm11Y_mean vs run
χ² / ndf 23.21 / 25
p0 25.6 ± 24.75
400
200
0
−200
−400
−600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −96.56
Std Dev 110.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

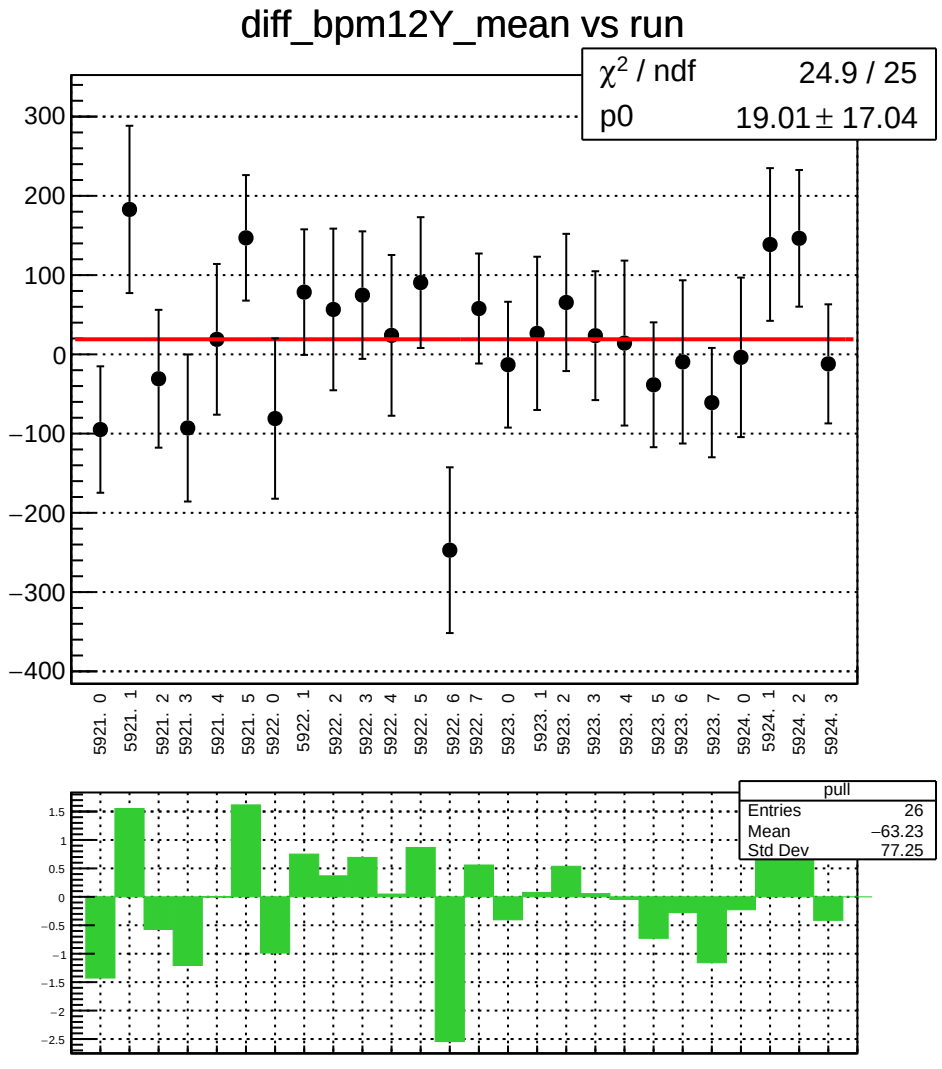

pull1D
Entries 26
Mean −0.009569
Std Dev 0.9449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

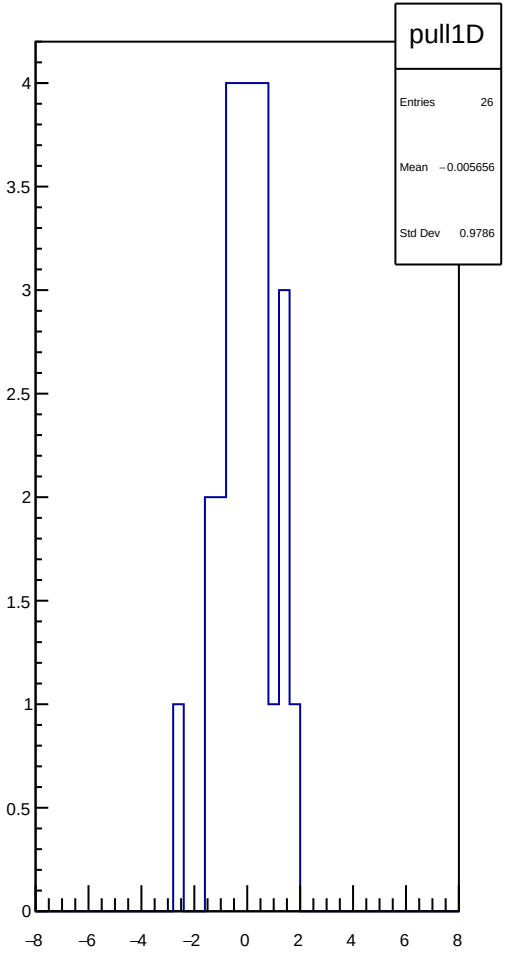

diff_bpm11Y_rms vs run
χ² / ndf 5405 / 25
p0 1.233e+04 ± 17.5
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

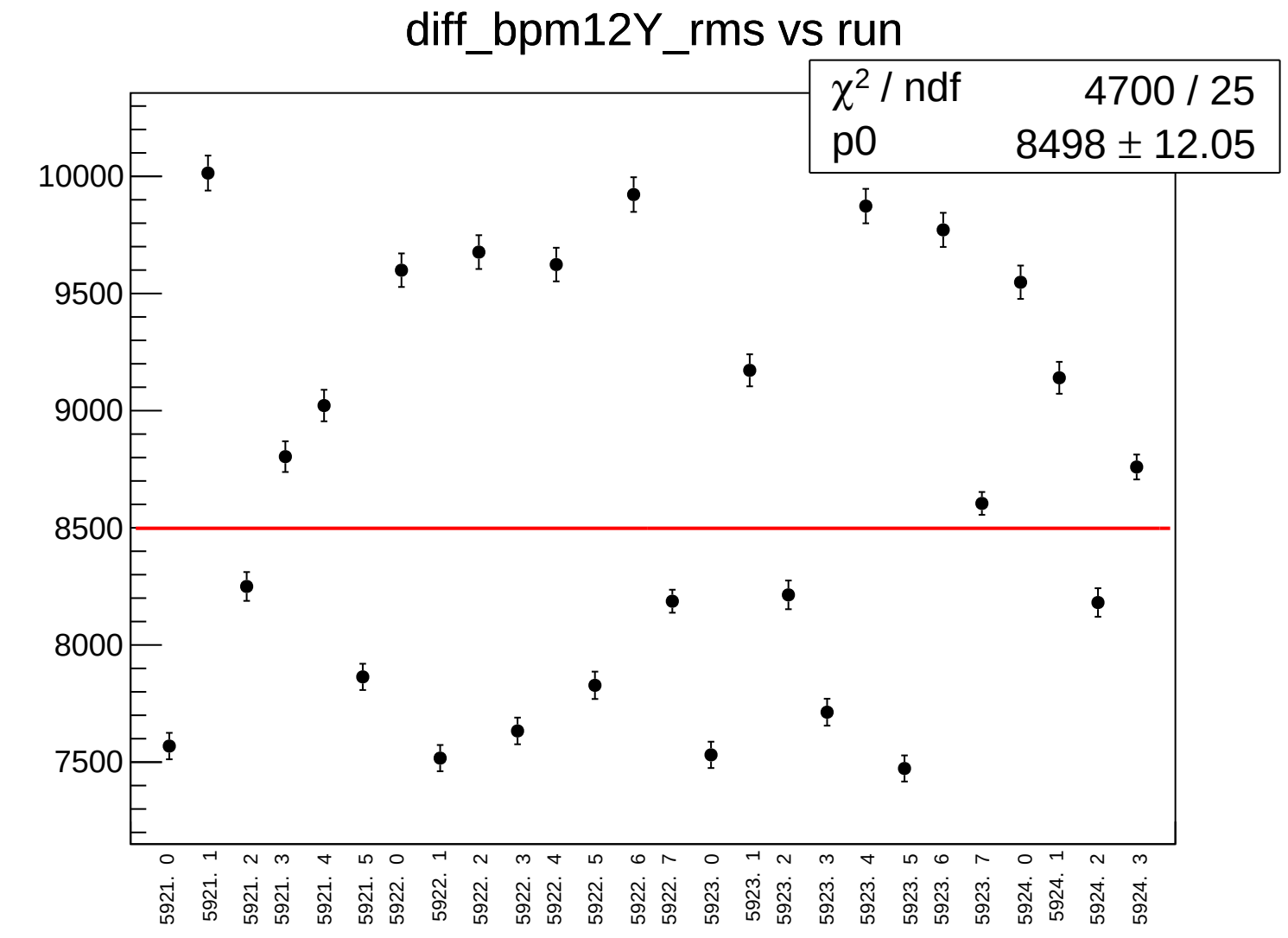

diff_bpm12X_mean vs run
χ² / ndf 14.81 / 25
p0 29.24 ± 60.12
1200
1000
800
600
400
200
0
−200
−400
−600
−800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −80.14
Std Dev 103.3
2.5
2
1.5
1
0.5
0
−0.5
−1

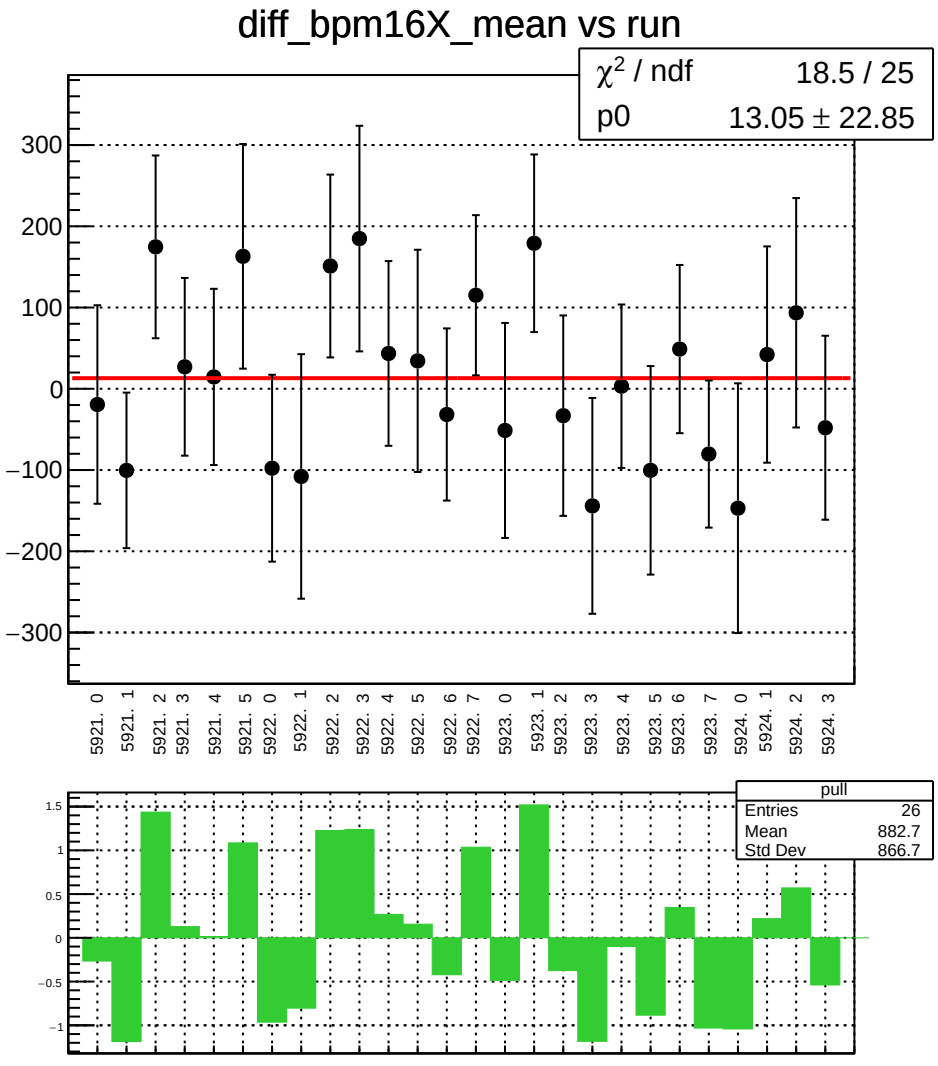

pull1D
Entries 26
Mean 0.006366
Std Dev 0.7547
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

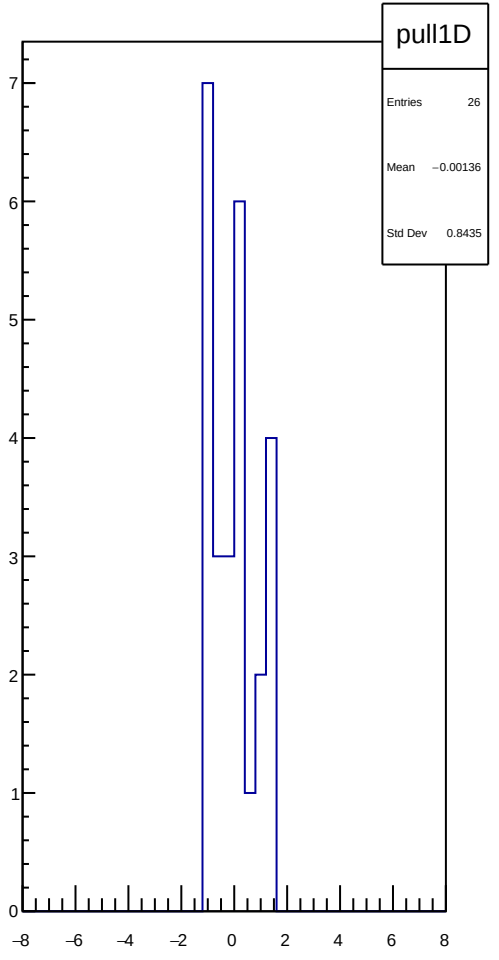

diff_bpm12X_rms vs run
χ² / ndf 1681 / 25
p0 3.006e+04 ± 42.51
34000
33000
32000
31000
30000
29000
28000
27000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

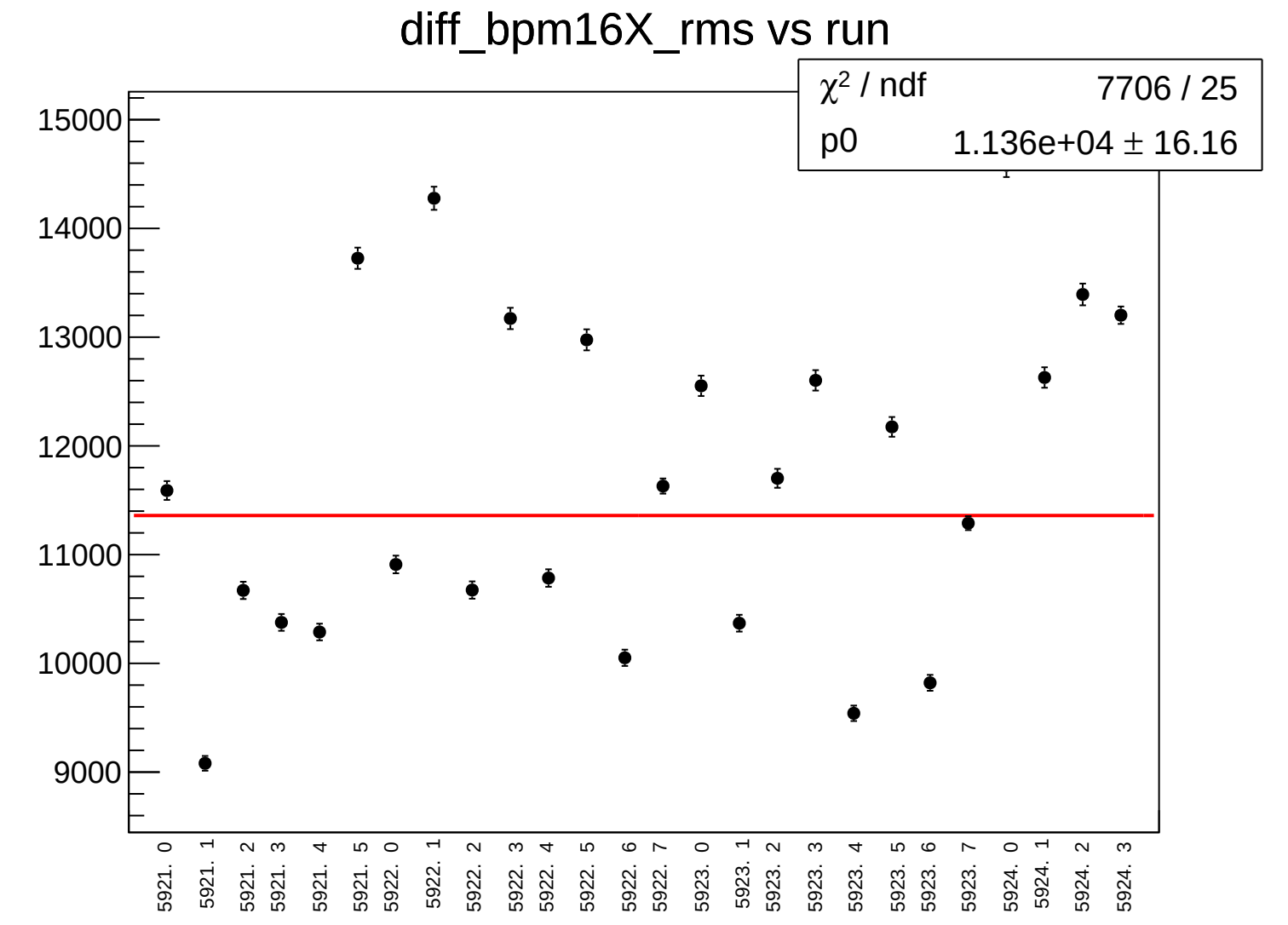

diff_bpm12Y_mean vs run
χ² / ndf 24.9 / 25
p0 19.01 ± 17.04
300
200
100
0
−100
−200
−300
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −63.23
Std Dev 77.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

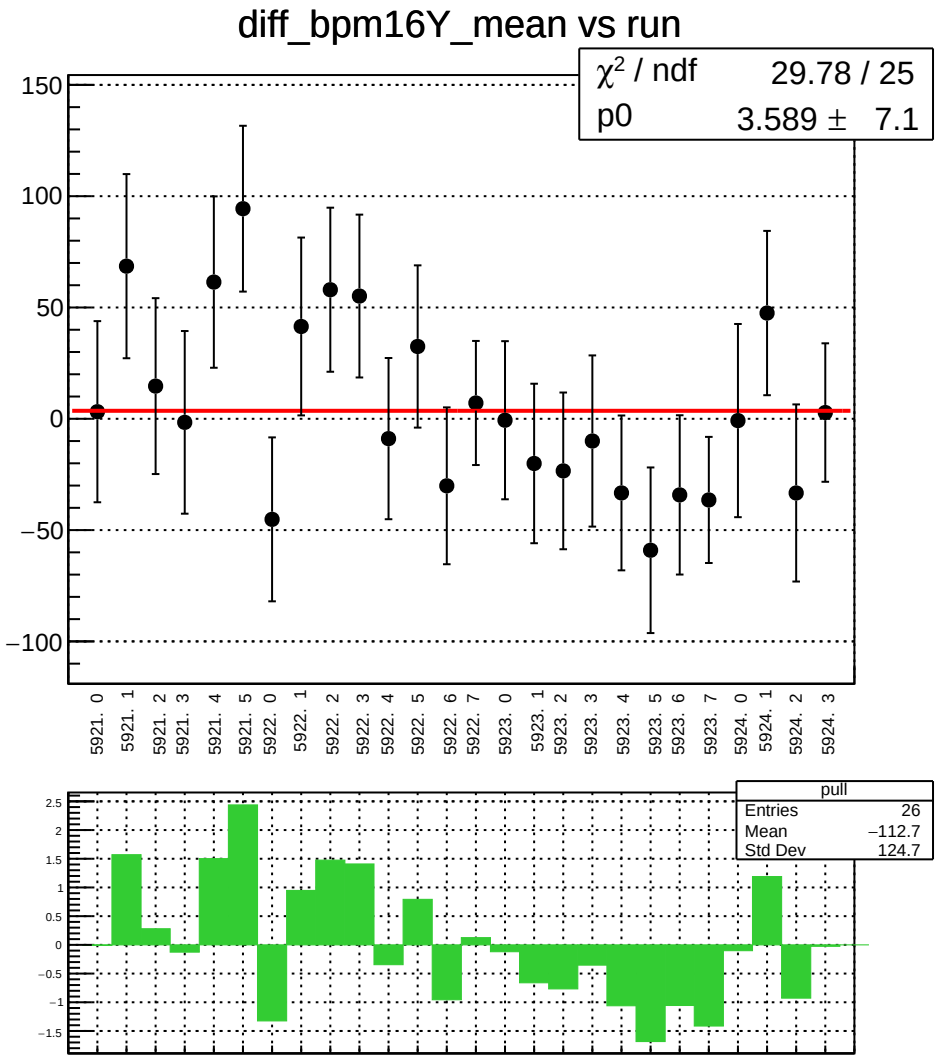

pull1D
Entries 26
Mean −0.005656
Std Dev 0.9786
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

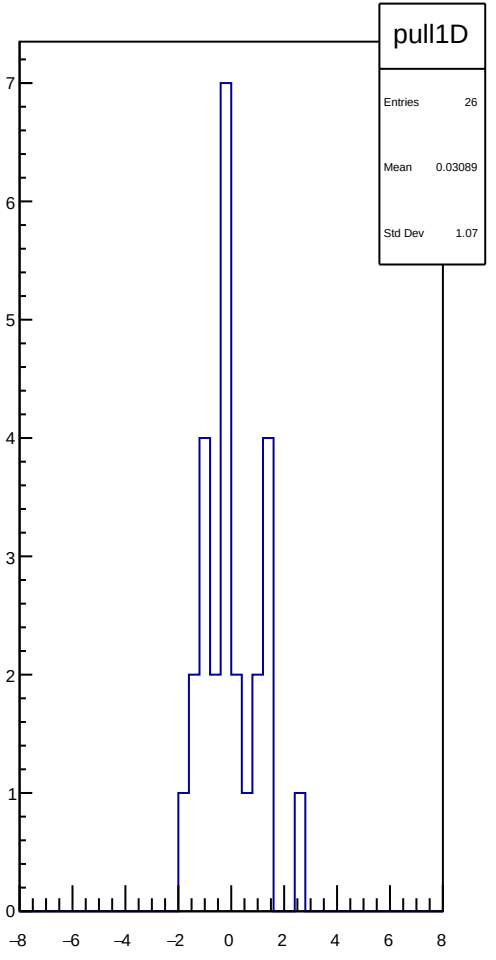

diff_bpm12Y_rms vs run
χ² / ndf 4700 / 25
p0 8498 ± 12.05
10000
9500
9000
8500
8000
7500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

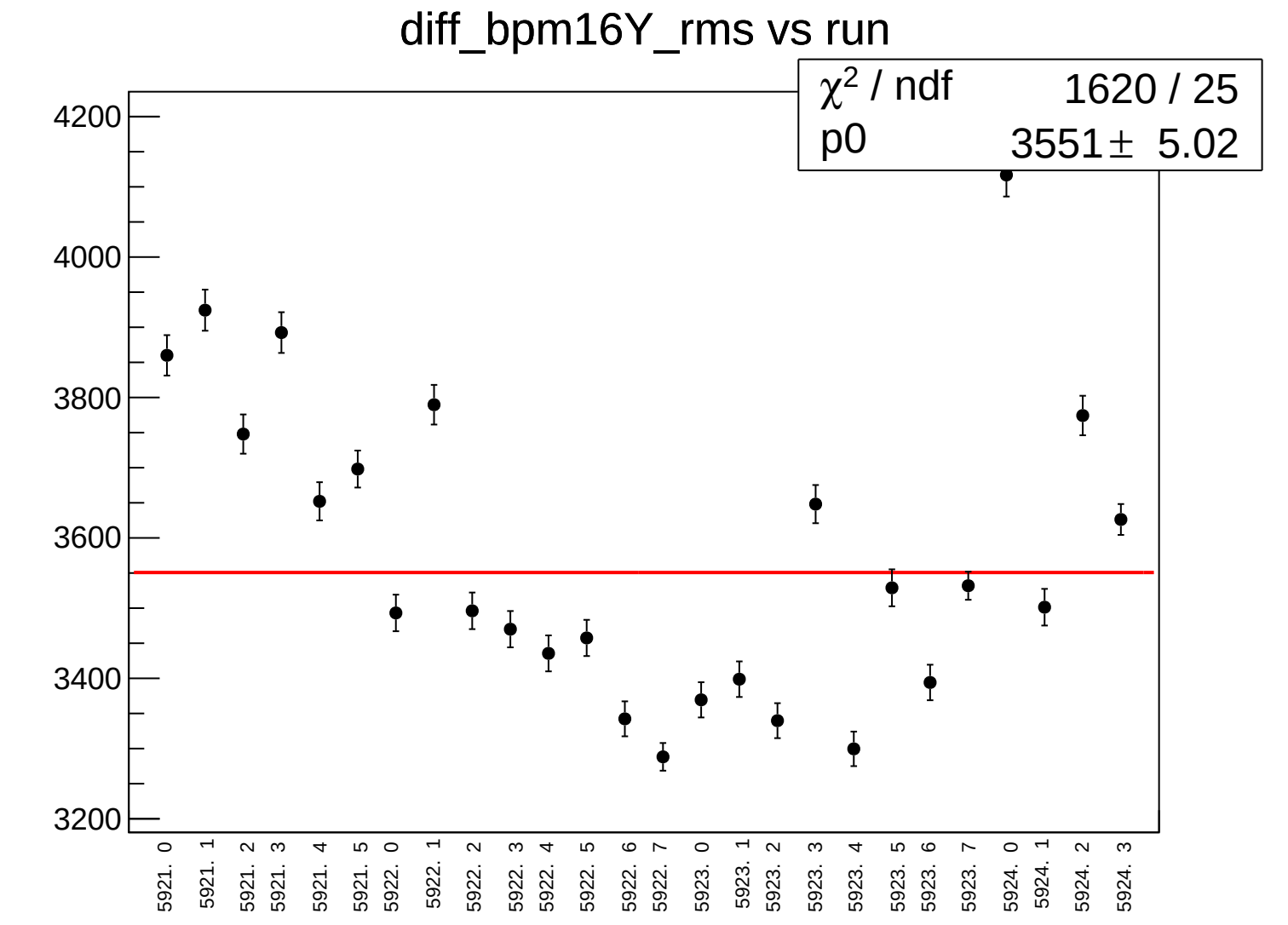

diff_bpm16X_mean vs run
χ² / ndf 18.5 / 25
p0 13.05 ± 22.85
300
200
100
0
−100
−200
−300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 882.7
Std Dev 866.7
1.5
1
0.5
0
−0.5
−1

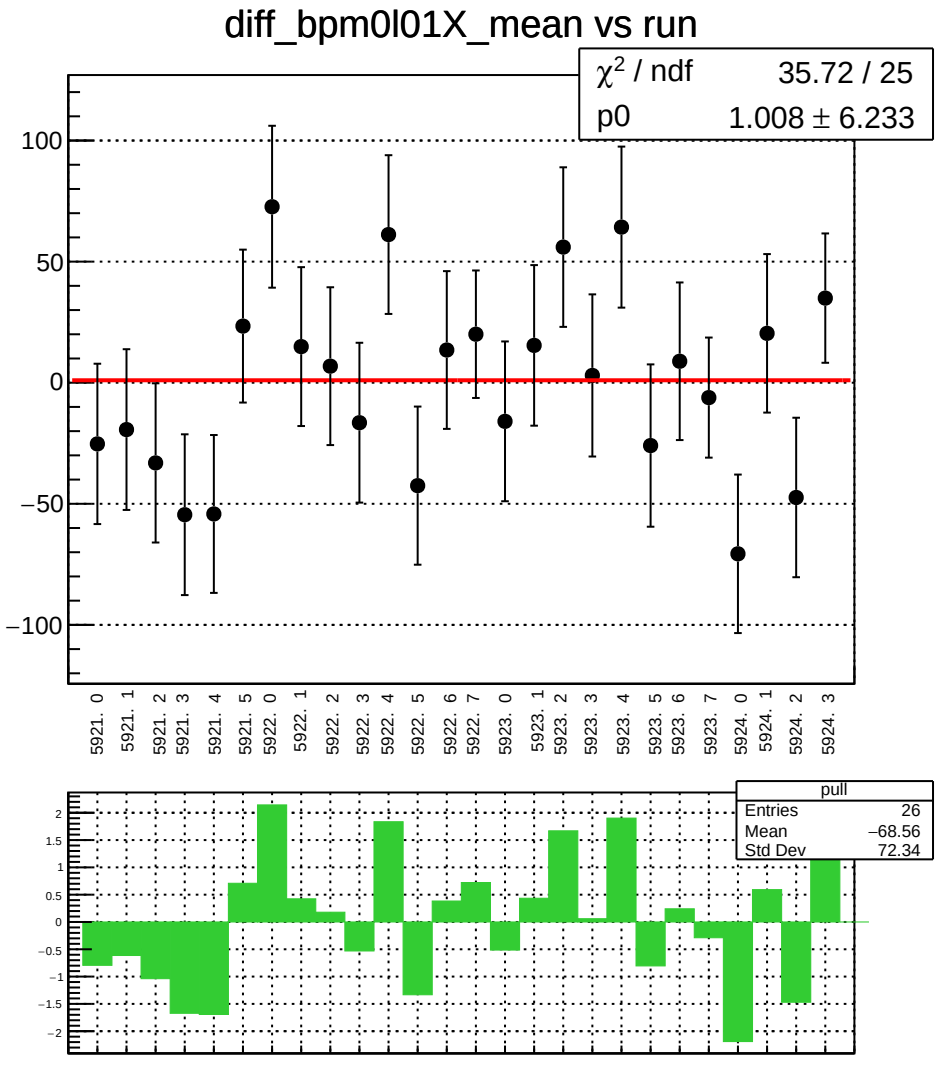

pull1D
Entries 26
Mean −0.00136
Std Dev 0.8435
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

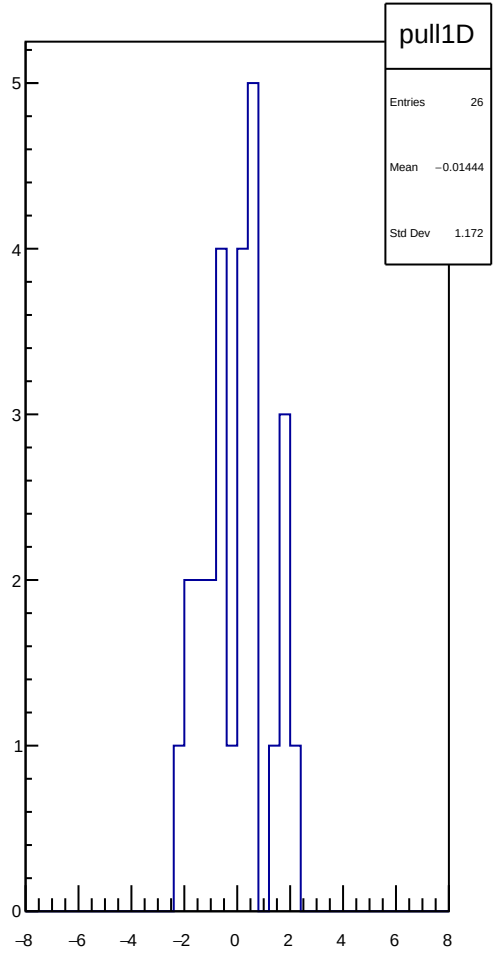

diff_bpm16X_rms vs run
χ² / ndf 7706 / 25
p0 1.136e+04 ± 16.16
15000
14000
13000
12000
11000
10000
9000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

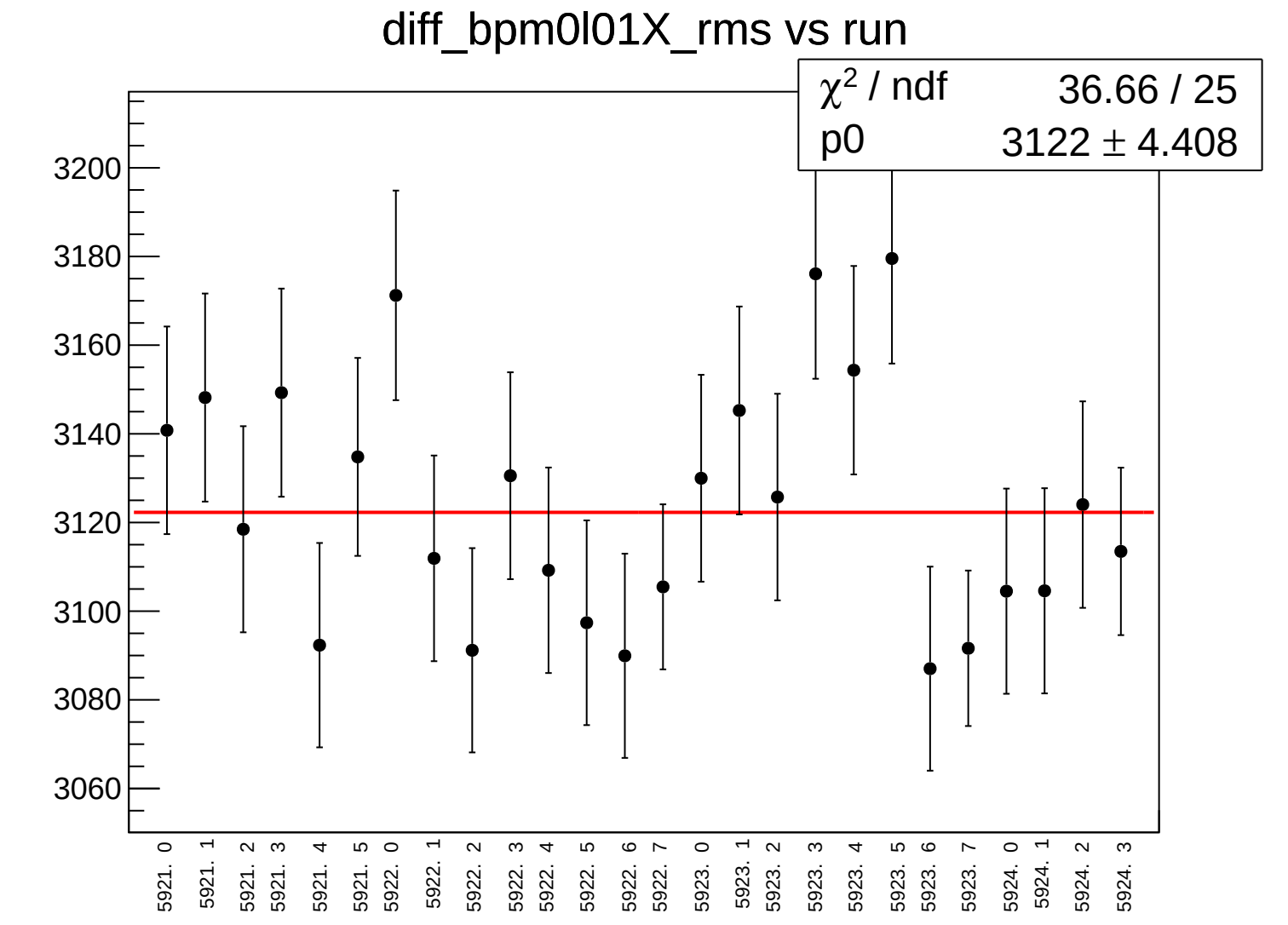

diff_bpm16Y_mean vs run
χ² / ndf 29.78 / 25
p0 3.589 ± 7.1
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −112.7
Std Dev 124.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

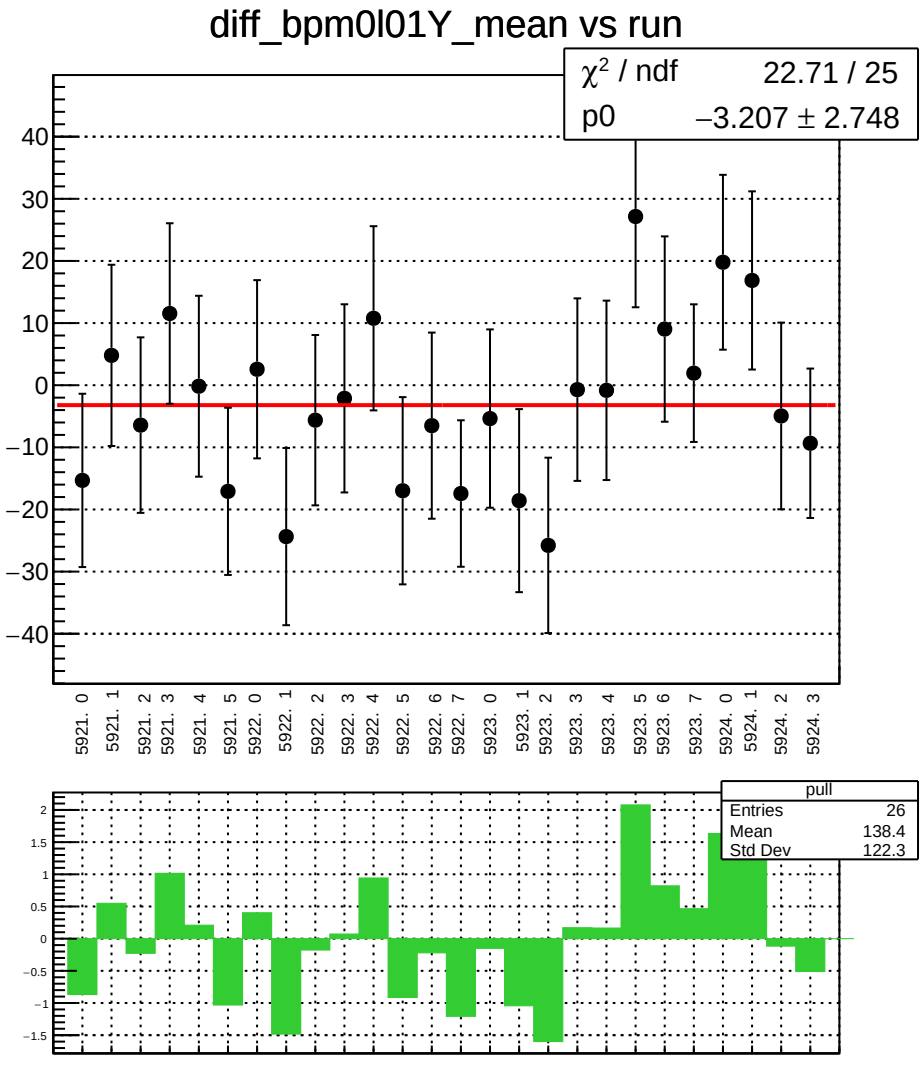

pull1D
Entries 26
Mean 0.03089
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

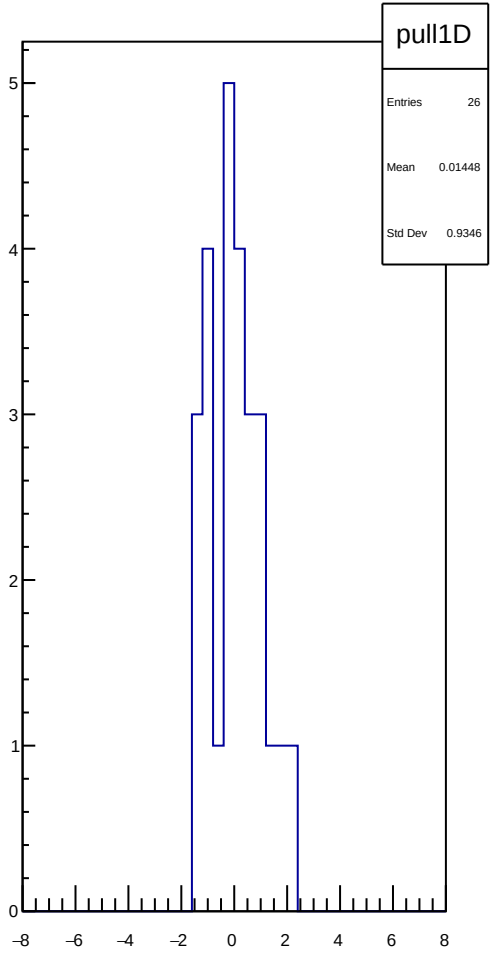

diff_bpm16Y_rms vs run
χ² / ndf 1620 / 25
p0 3551 ± 5.02
4200
4000
3800
3600
3400
3200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

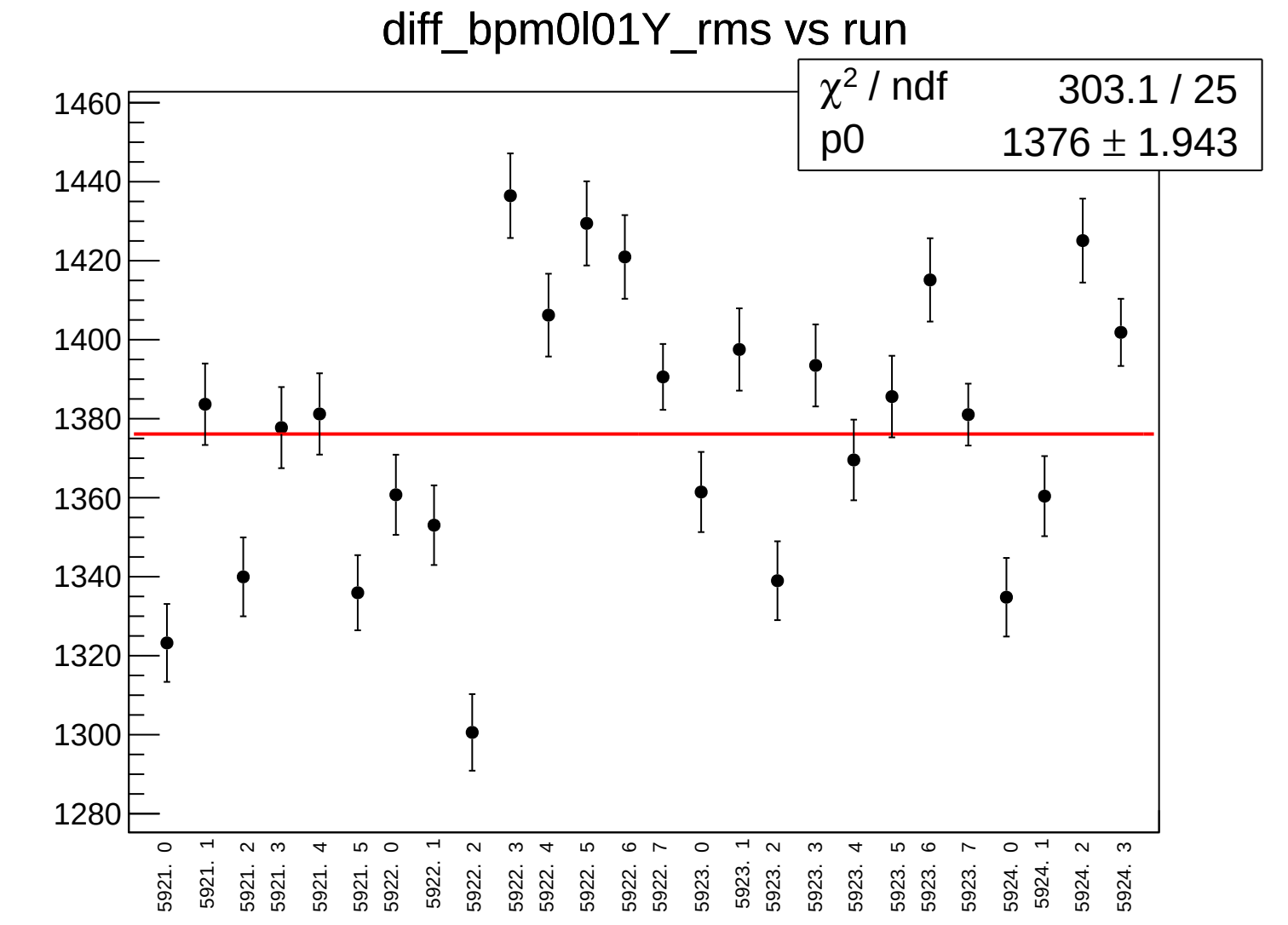

diff_bpm0l01X_mean vs run
χ² / ndf 35.72 / 25
p0 1.008 ± 6.233
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −68.56
Std Dev 72.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

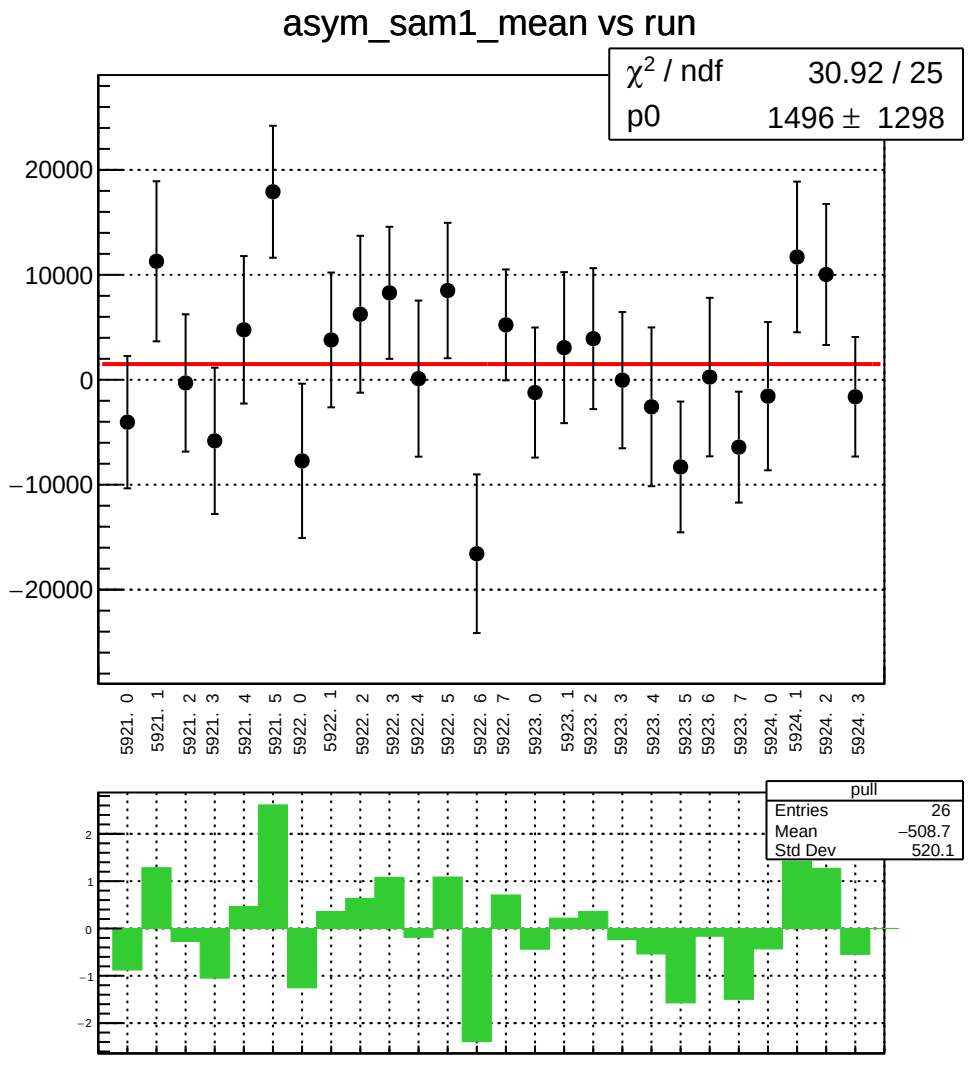

pull1D
Entries 26
Mean −0.01444
Std Dev 1.172
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

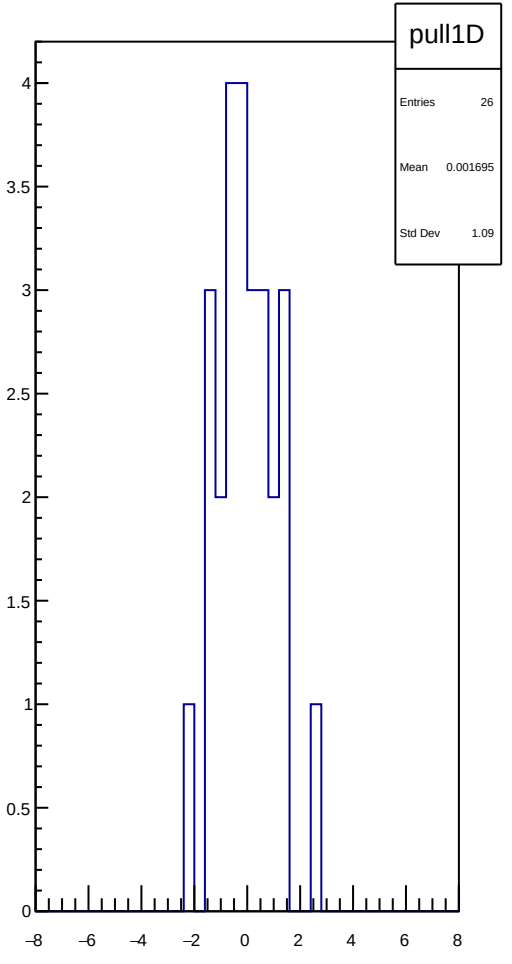

diff_bpm0l01X_rms vs run
χ² / ndf 36.66 / 25
p0 3122 ± 4.408
3200
3180
3160
3140
3120
3100
3080
3060
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

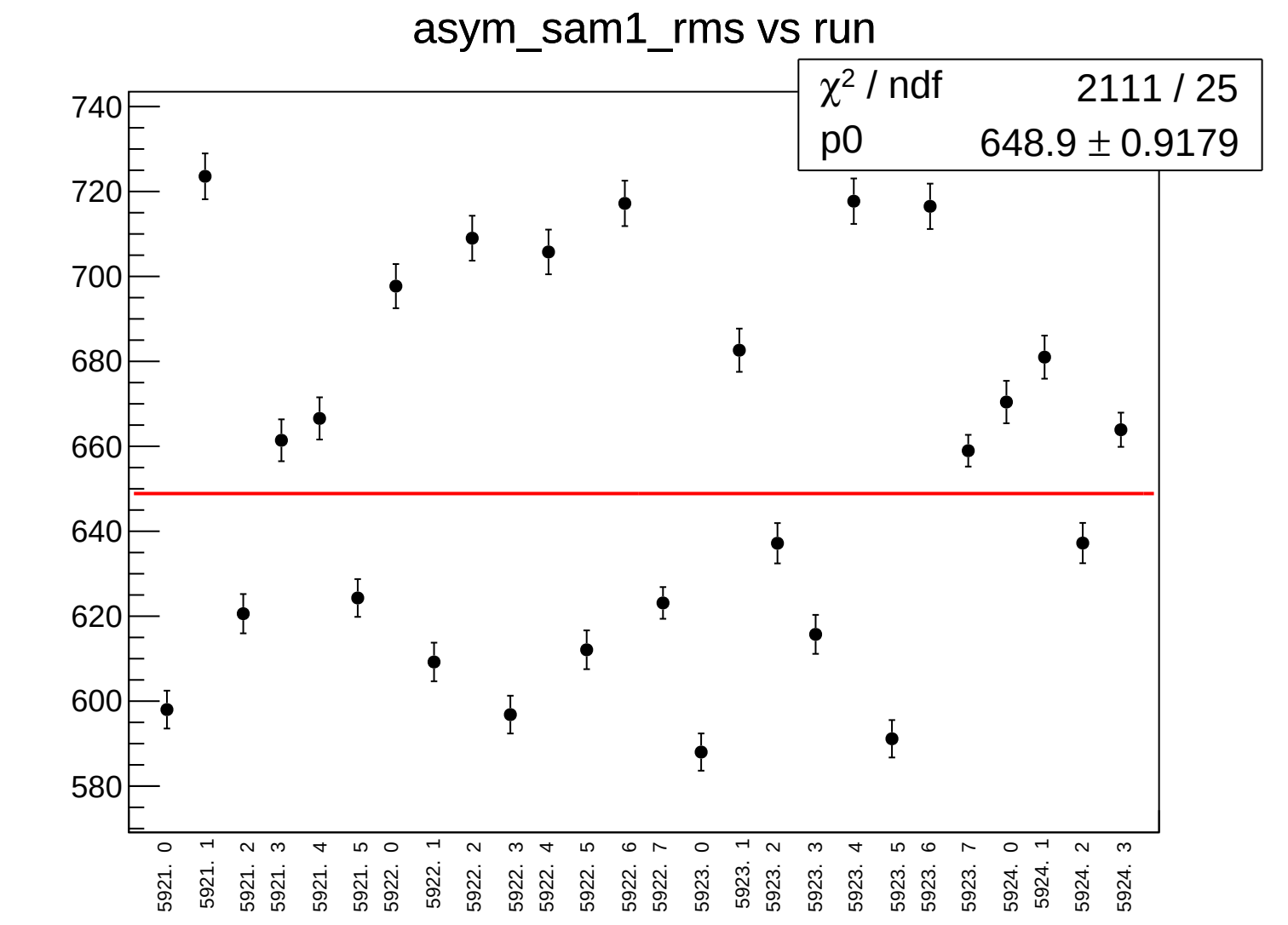

diff_bpm0l01Y_mean vs run
χ² / ndf 22.71 / 25
p0 −3.207 ± 2.748
40
30
20
10
0
−10
−20
−30
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 138.4
Std Dev 122.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

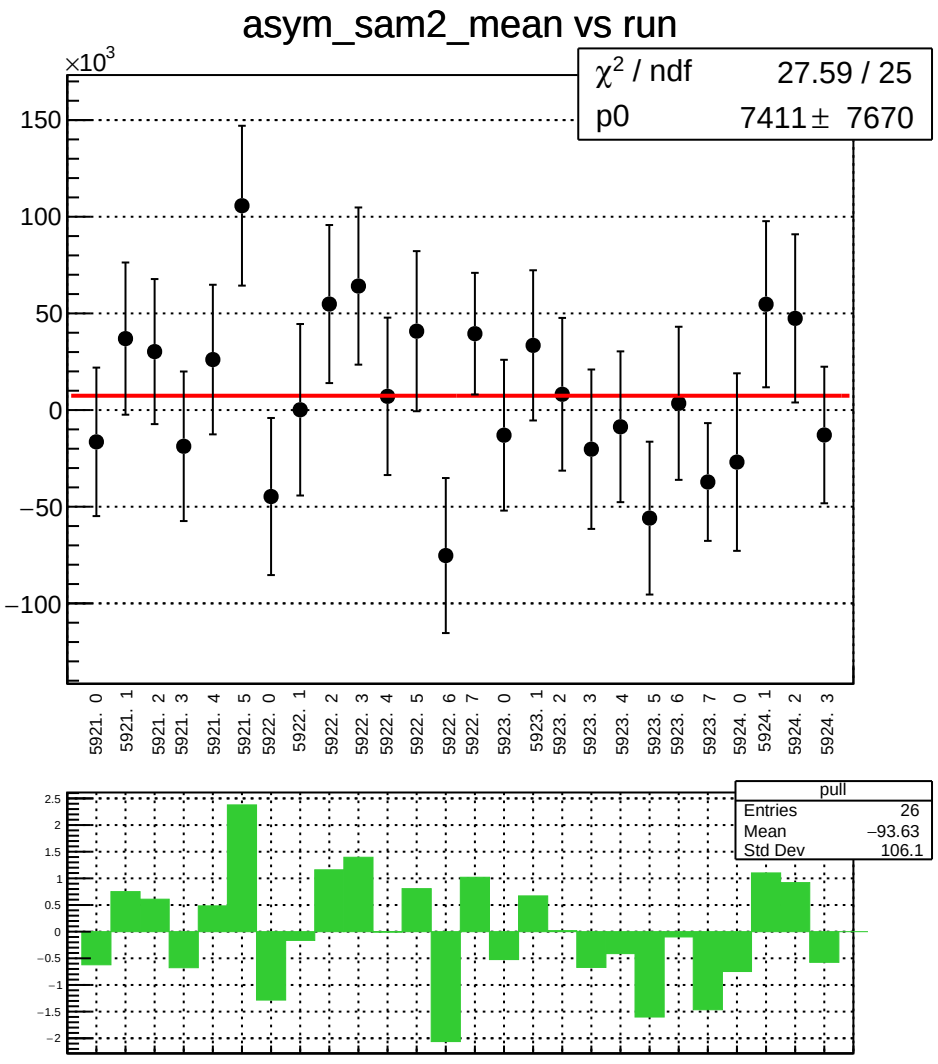

pull1D
Entries 26
Mean 0.01448
Std Dev 0.9346
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

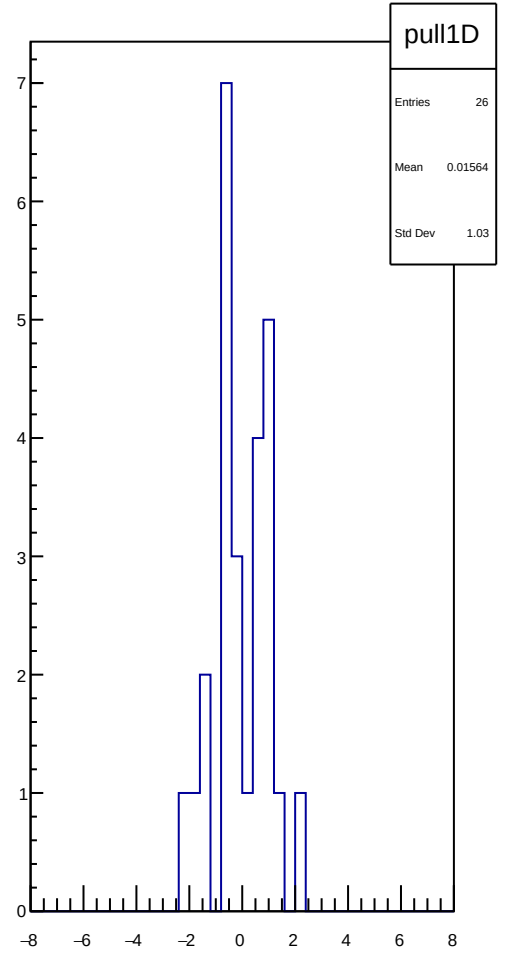

diff_bpm0l01Y_rms vs run
χ² / ndf 303.1 / 25
p0 1376 ± 1.943
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

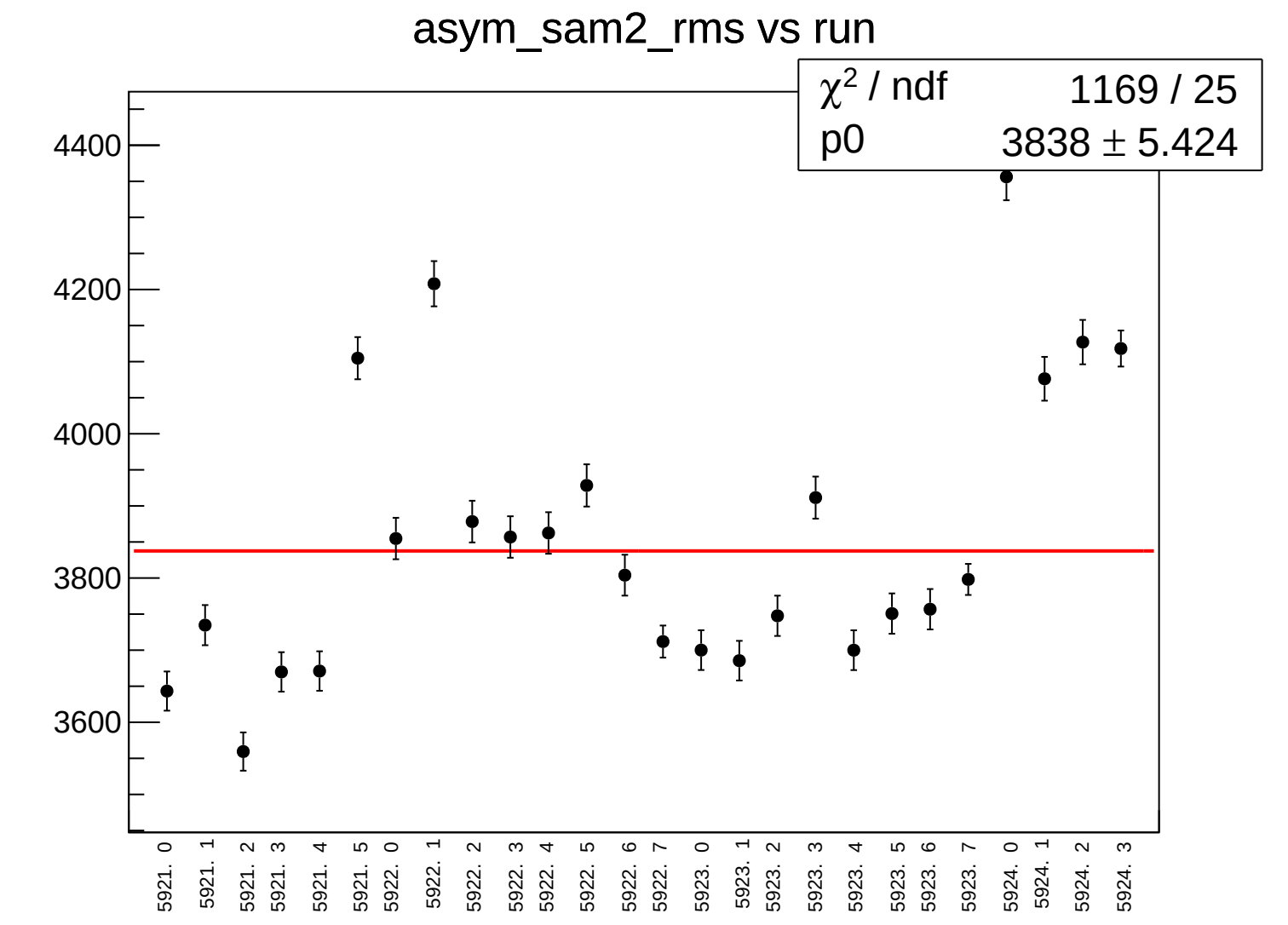

asym_sam1_mean vs run
χ² / ndf 30.92 / 25
p0 1496 ± 1298
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −508.7
Std Dev 520.1
2
1
0
−1
−2

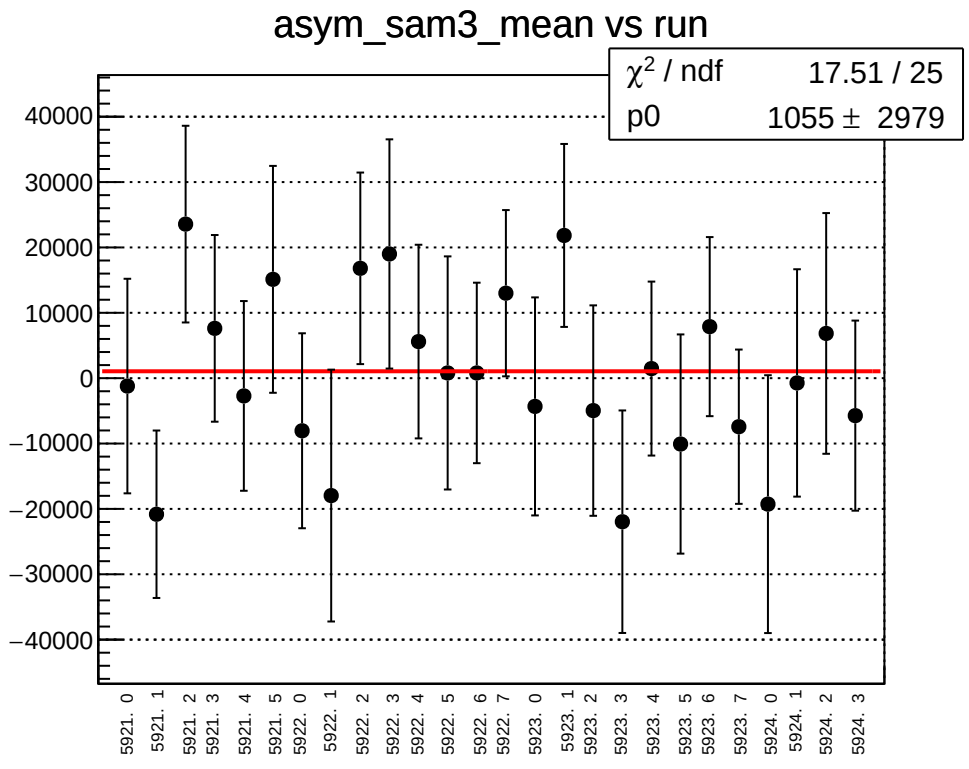

pull1D
Entries 26
Mean 0.001695
Std Dev 1.09
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

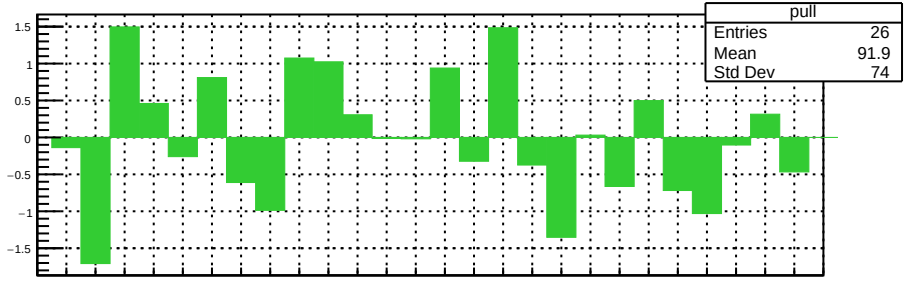

asym_sam1_rms vs run
χ² / ndf 2111 / 25
p0 648.9 ± 0.9179
740
720
700
680
660
640
620
600
580
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

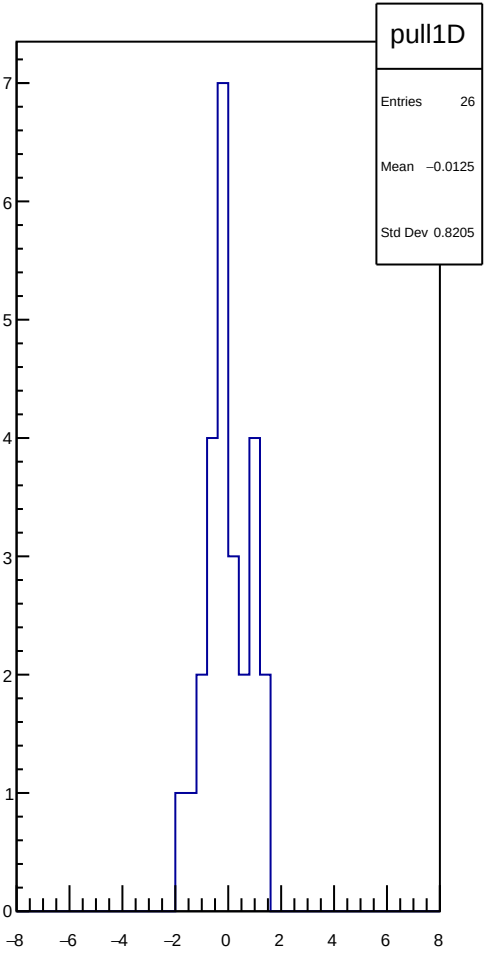

asym_sam2_mean vs run
×10^3
χ^2 / ndf 27.59 / 25
p0 7411 ± 7670
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −93.63
Std Dev 106.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

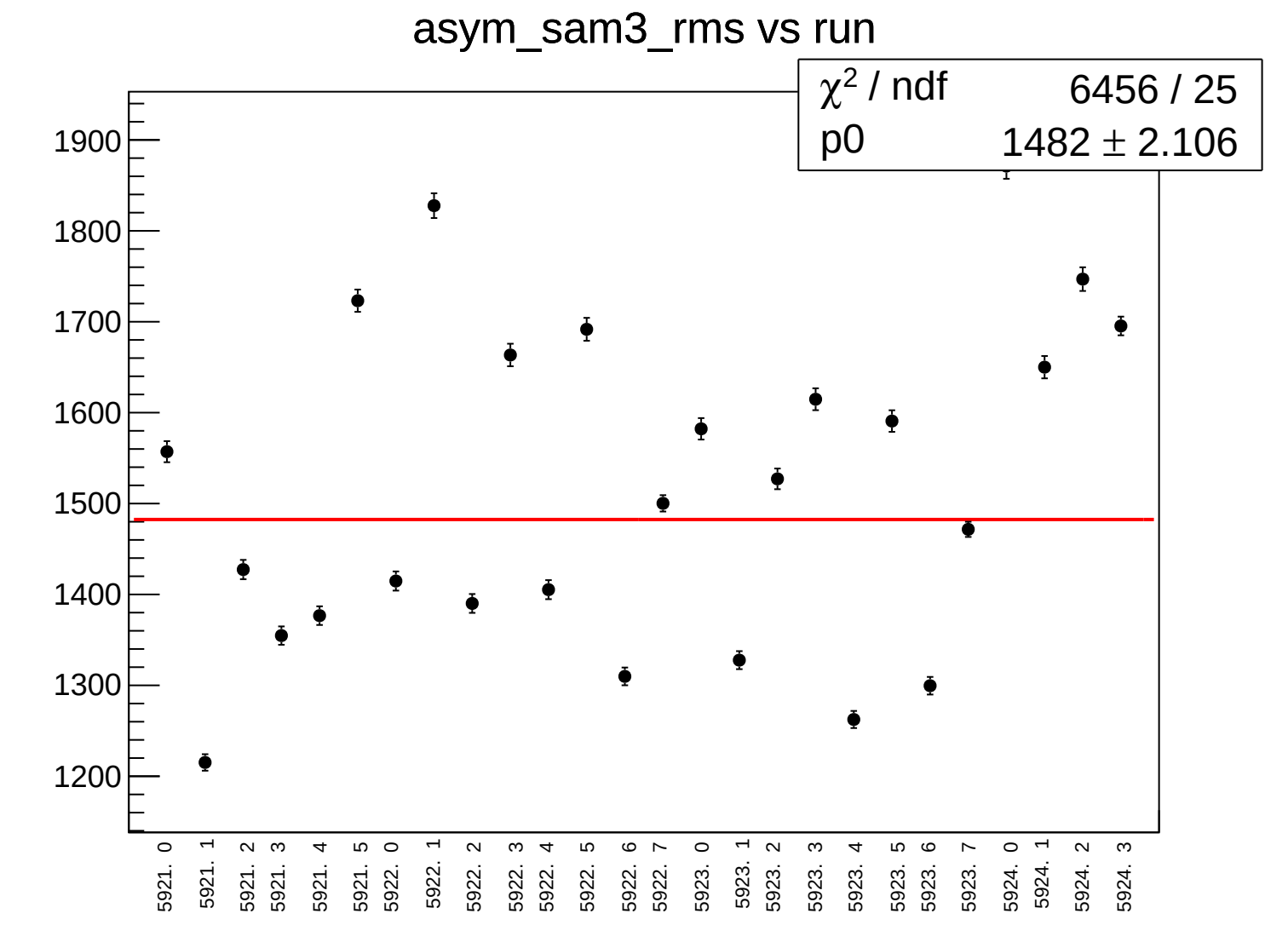

pull1D
Entries 26
Mean 0.01564
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

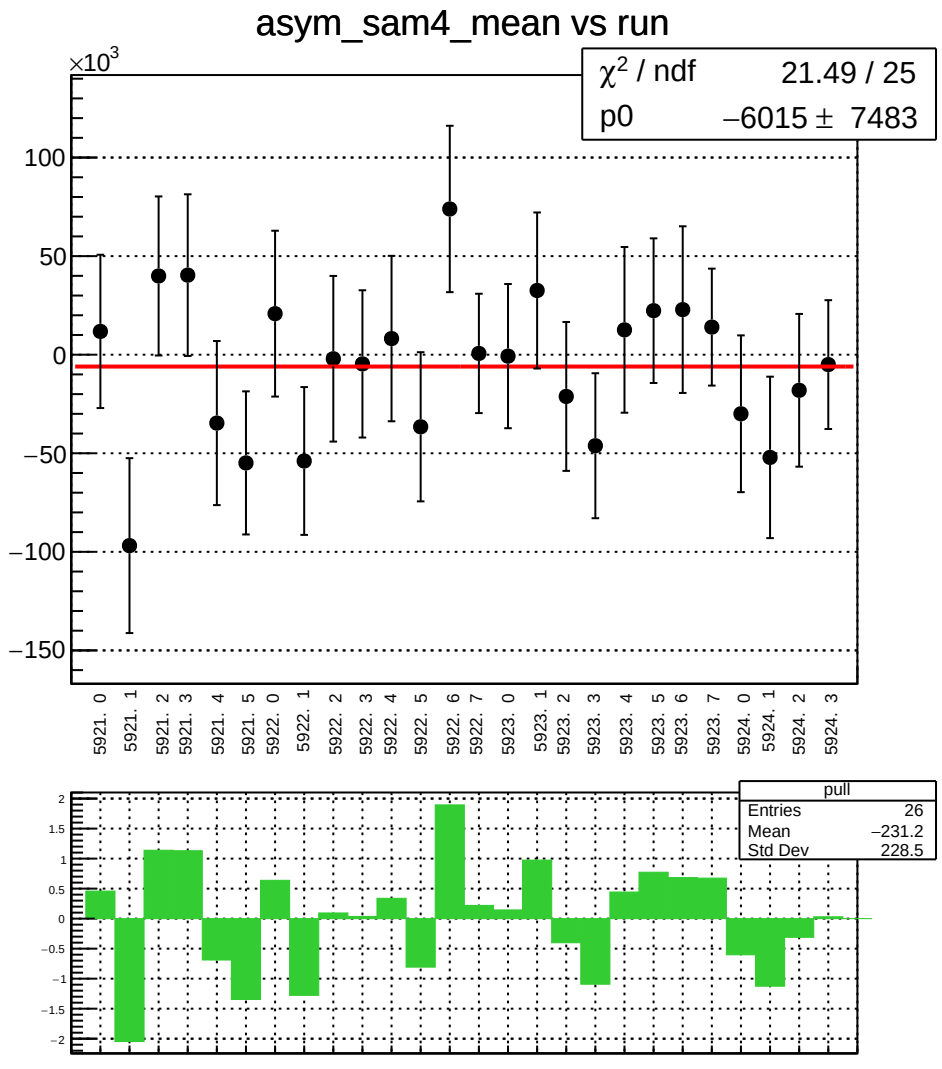

asym_sam2_rms vs run
χ² / ndf 1169 / 25
p0 3838 ± 5.424
4400
4200
4000
3800
3600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

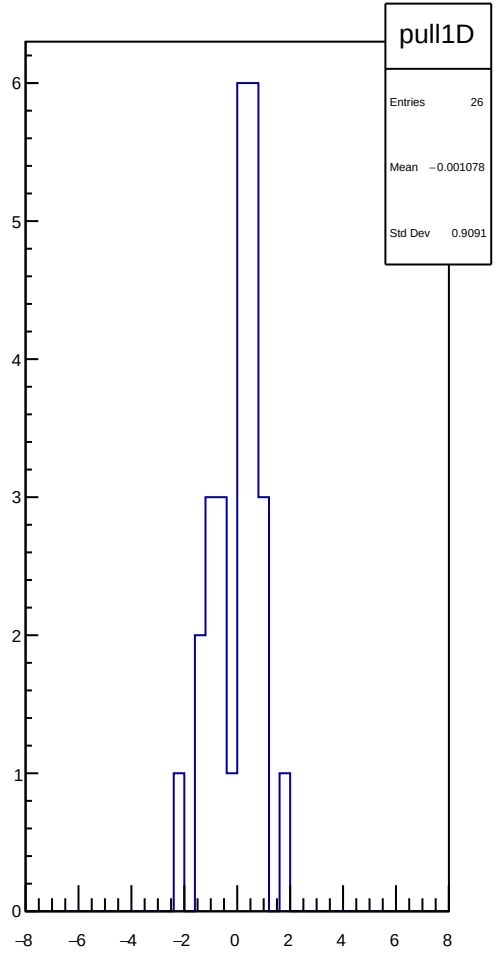

asym_sam3_mean vs run
χ² / ndf 17.51 / 25
p0 1055 ± 2979
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

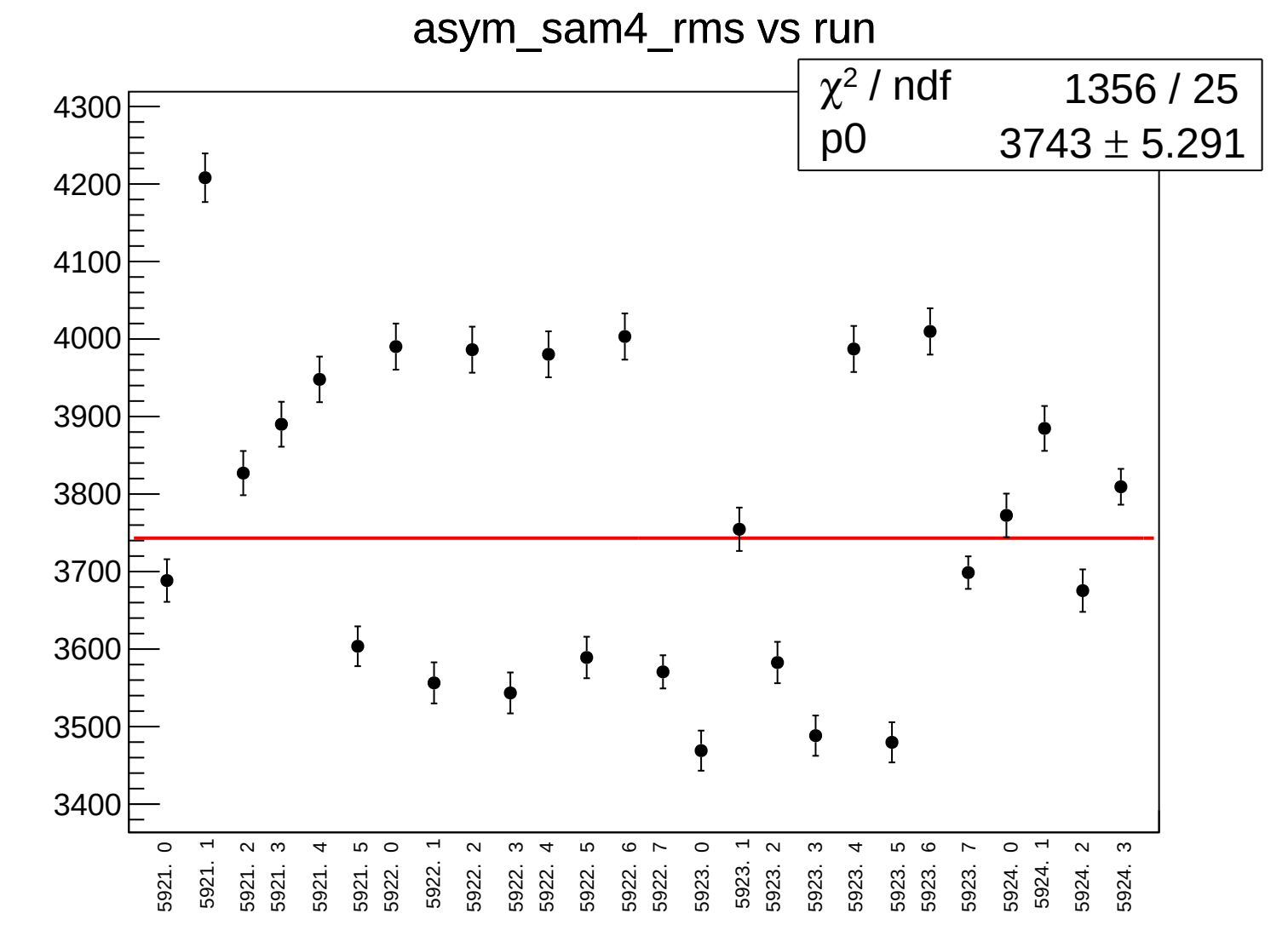

pull
Entries 26
Mean 91.9
Std Dev 74
1.5
1
0.5
0
−0.5
−1
−1.5

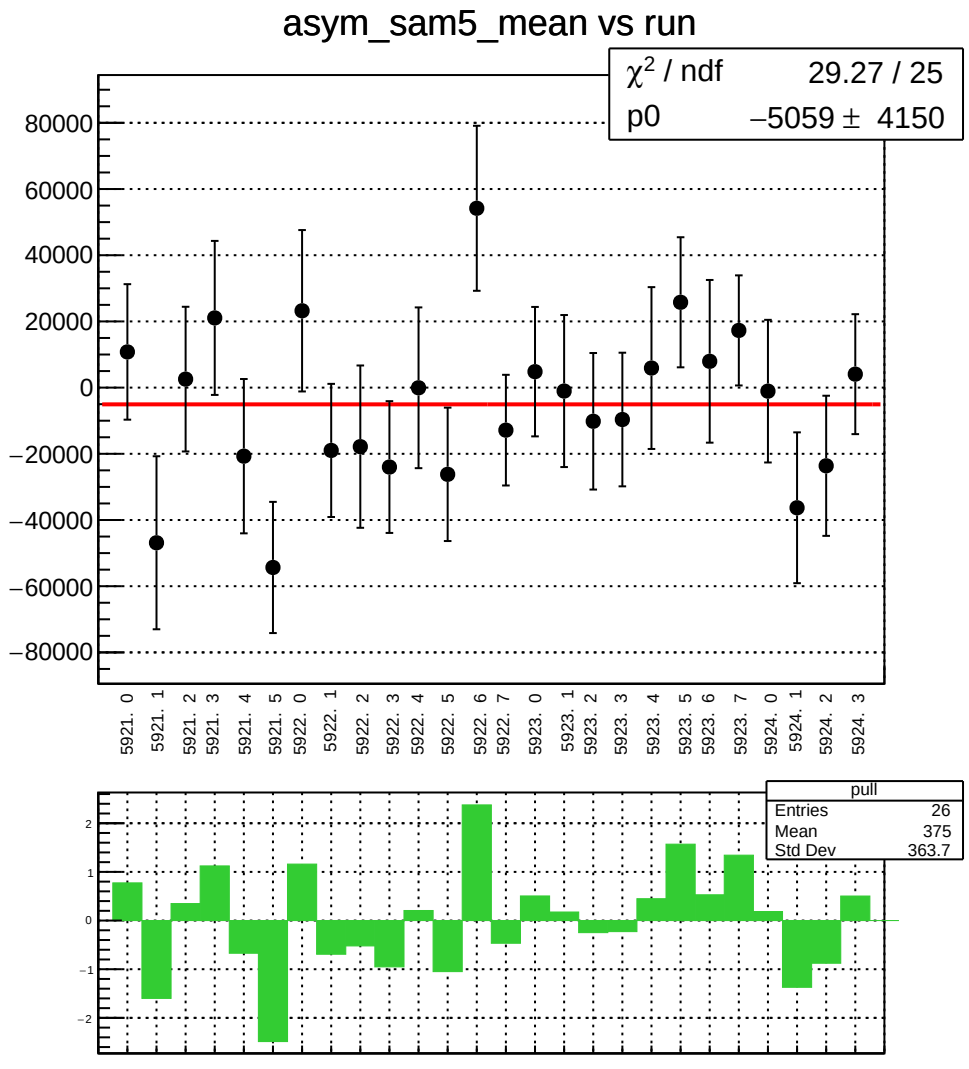

pull1D
Entries 26
Mean −0.0125
Std Dev 0.8205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

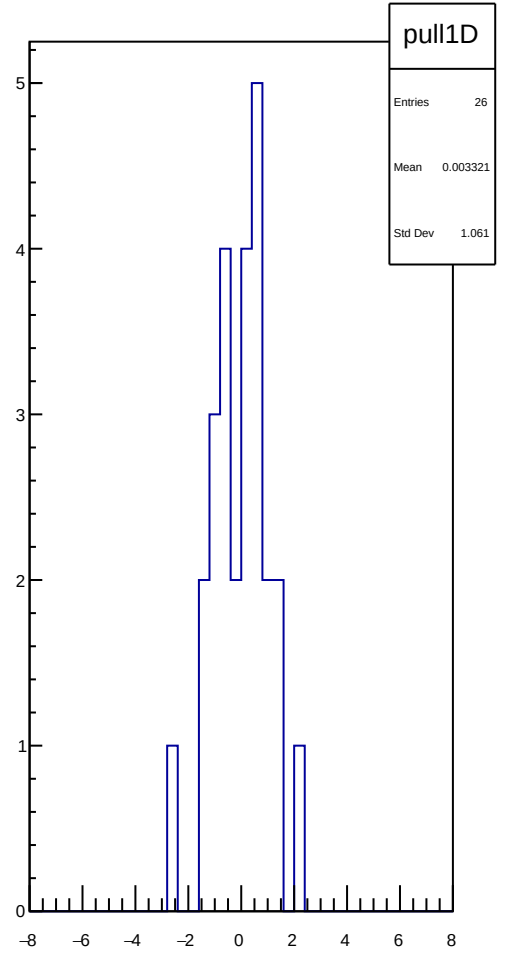

asym_sam3_rms vs run
χ² / ndf 6456 / 25
p0 1482 ± 2.106
1900
1800
1700
1600
1500
1400
1300
1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

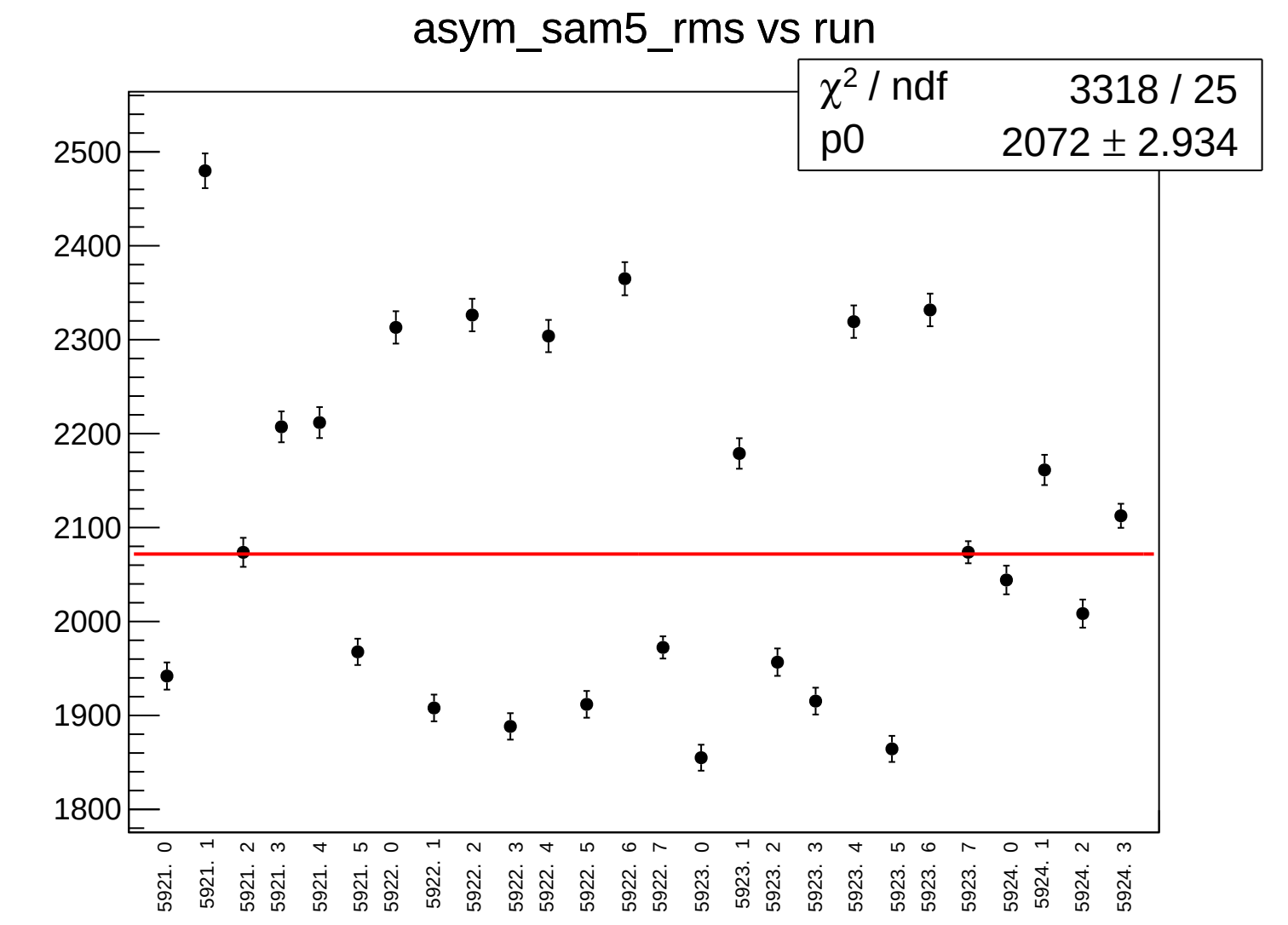

asym_sam4_mean vs run
×10^3
χ^2 / ndf 21.49 / 25
p0 −6015 ± 7483
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −231.2
Std Dev 228.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

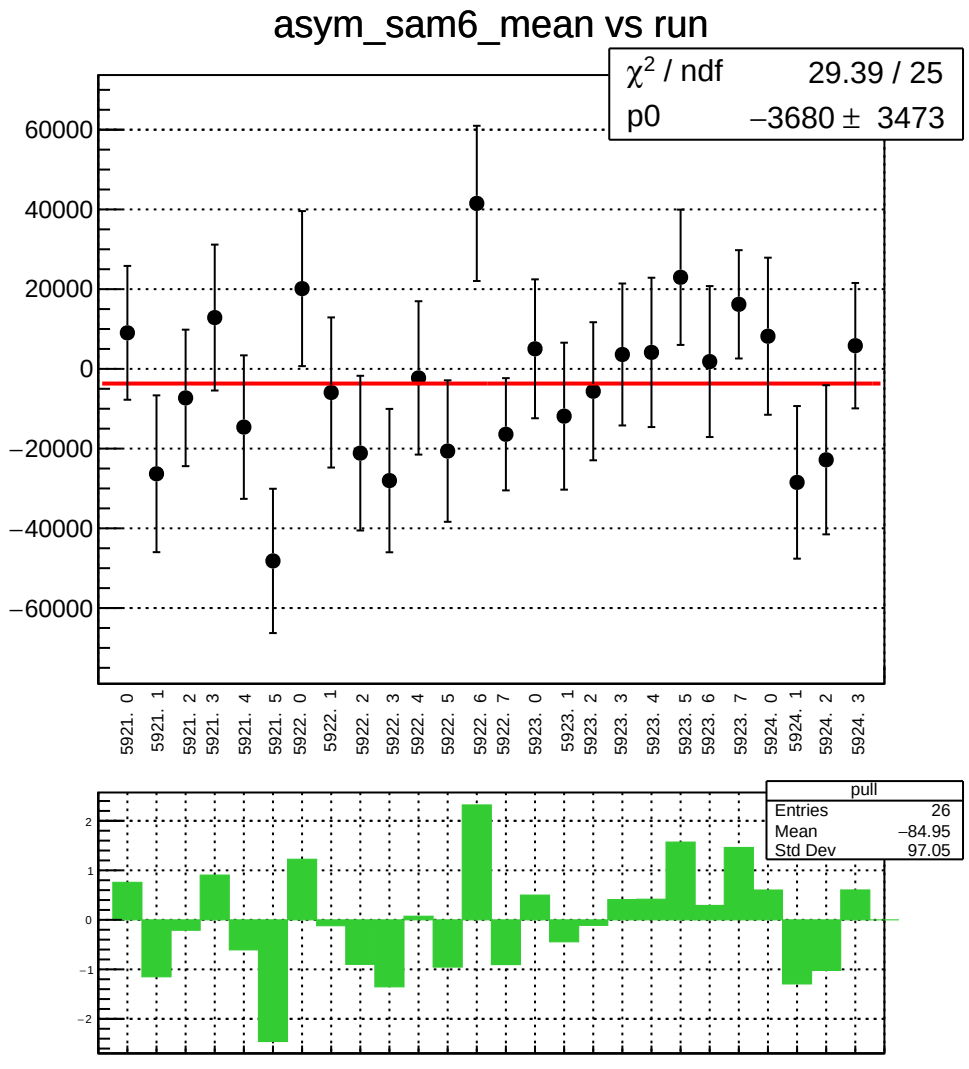

pull1D
Entries 26
Mean −0.001078
Std Dev 0.9091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

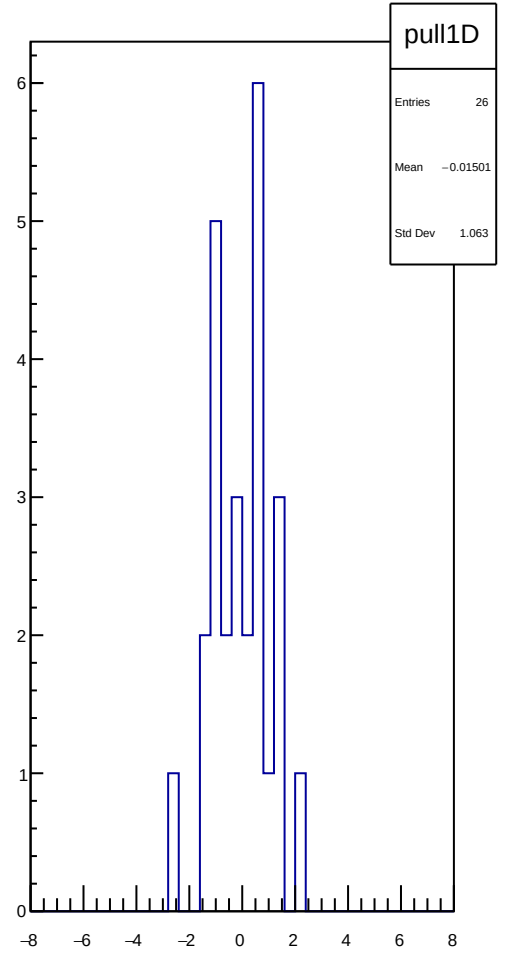

asym_sam4_rms vs run
χ² / ndf 1356 / 25
p0 3743 ± 5.291
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

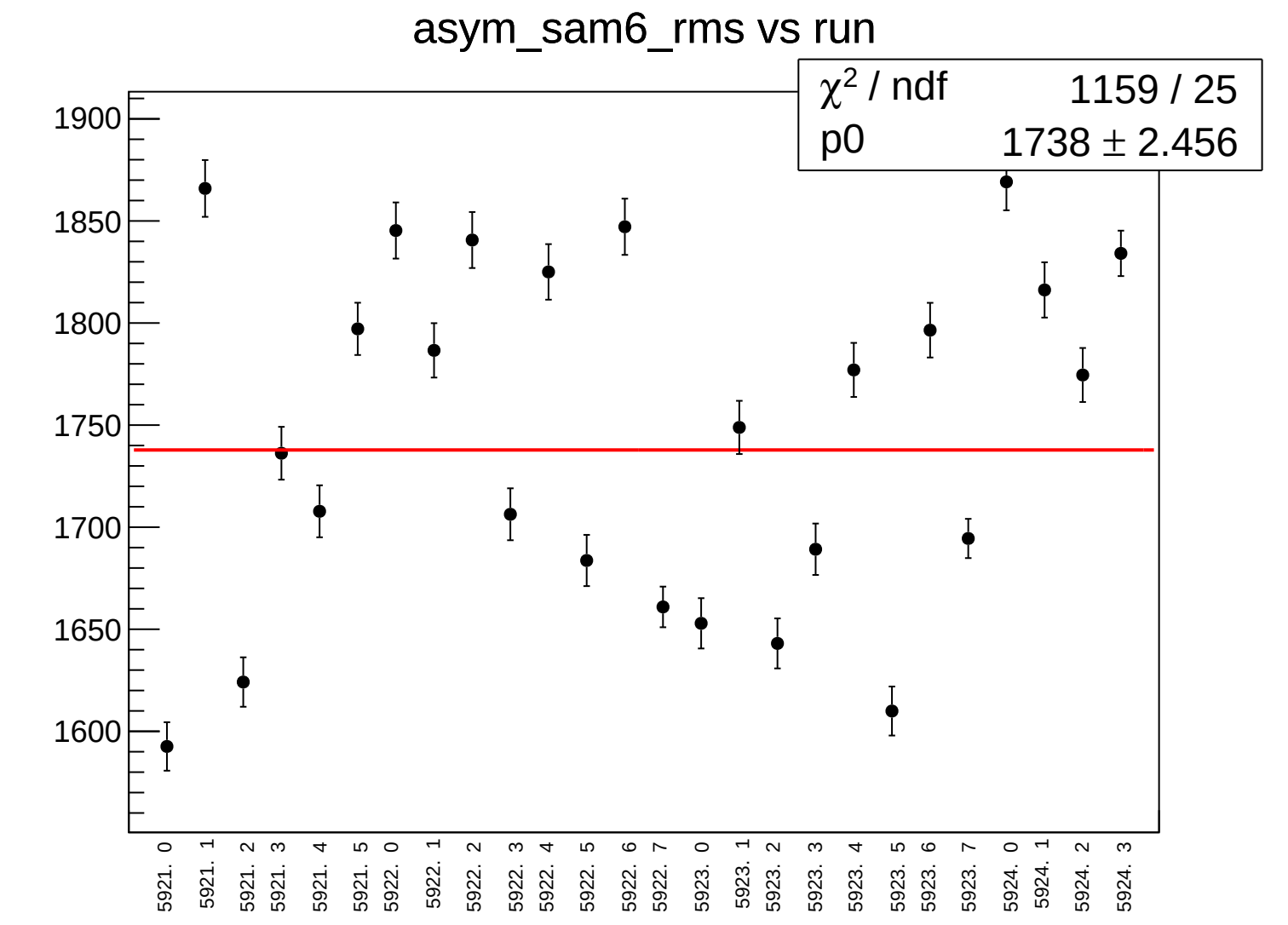

asym_sam5_mean vs run
χ² / ndf 29.27 / 25
p0 −5059 ± 4150
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 375
Std Dev 363.7
2
1
0
−1
−2

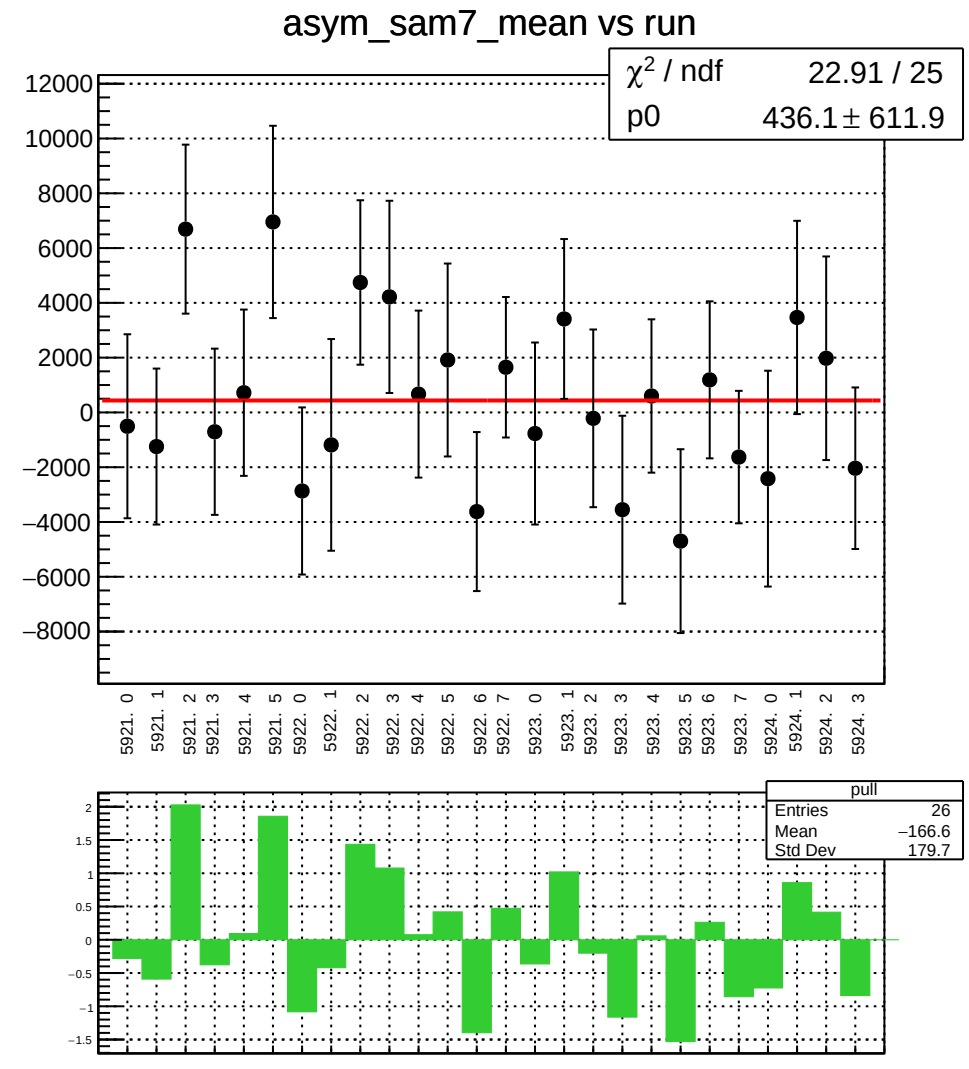

pull1D
Entries 26
Mean 0.003321
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

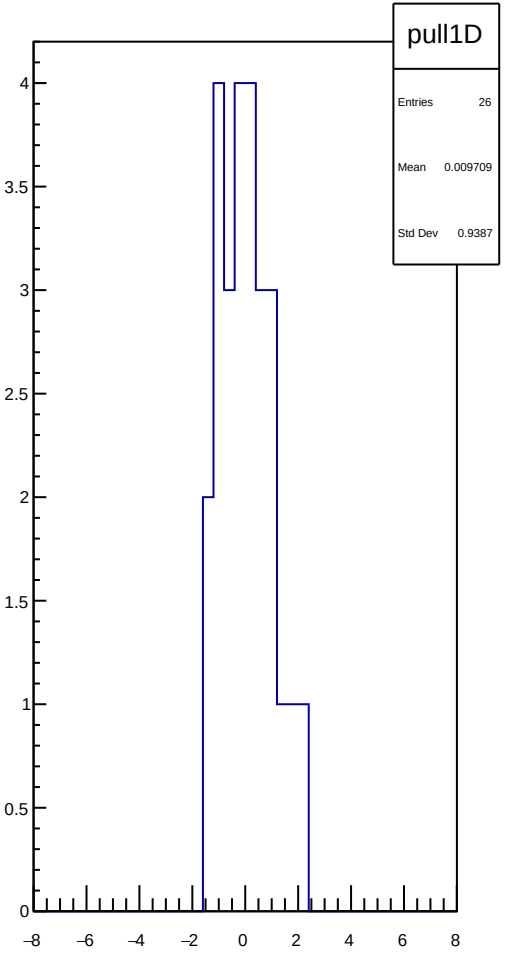

asym_sam5_rms vs run
χ² / ndf 3318 / 25
p0 2072 ± 2.934
2500
2400
2300
2200
2100
2000
1900
1800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

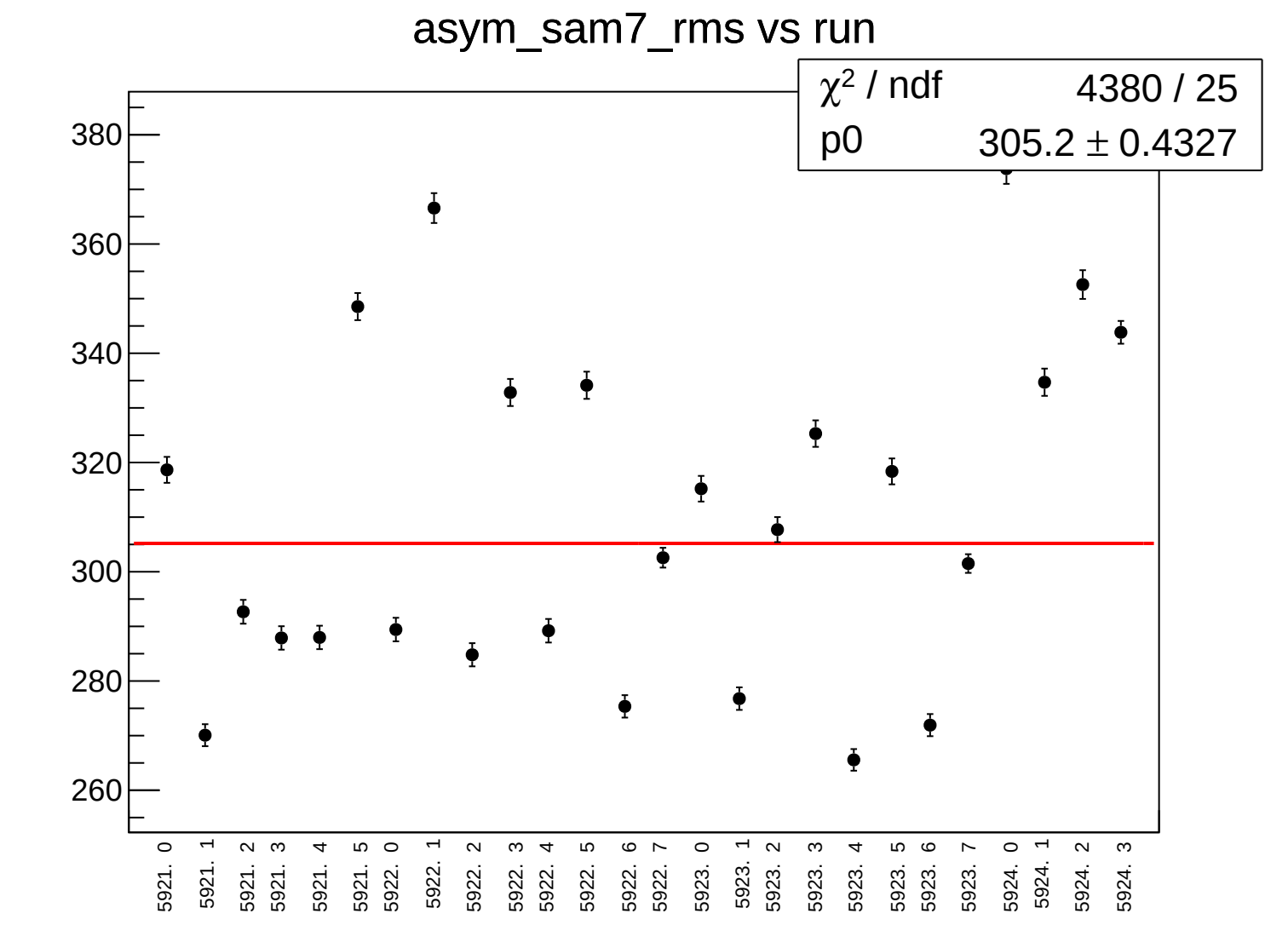

asym_sam6_mean vs run
χ² / ndf 29.39 / 25
p0 −3680 ± 3473
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −84.95
Std Dev 97.05
2
1
0
−1
−2

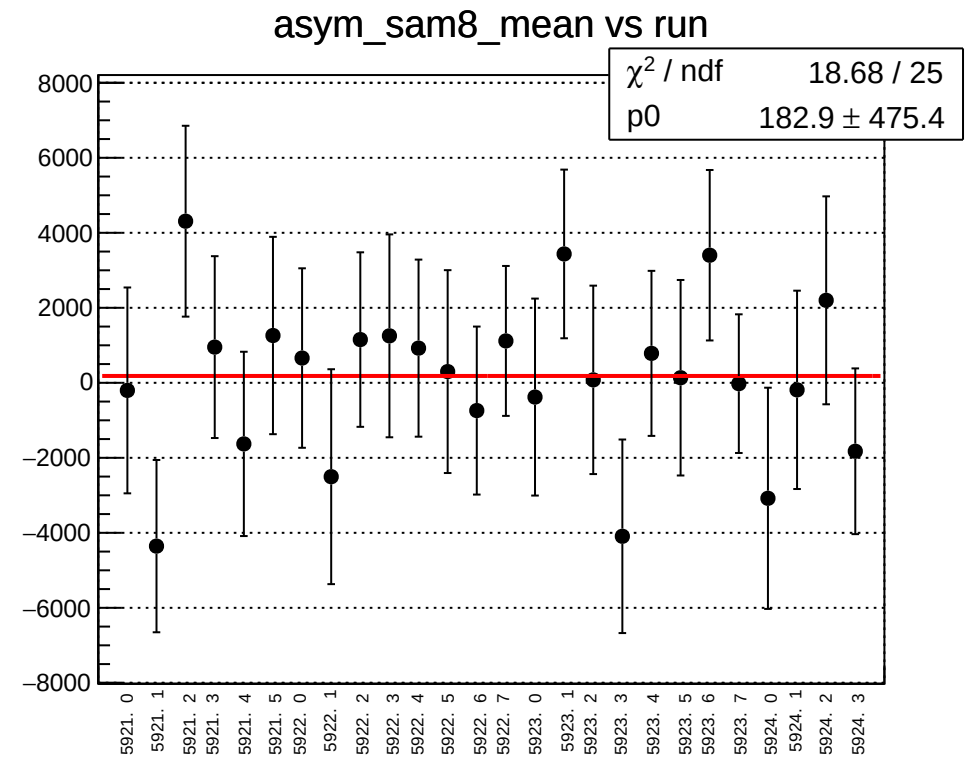

pull1D
Entries 26
Mean −0.01501
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

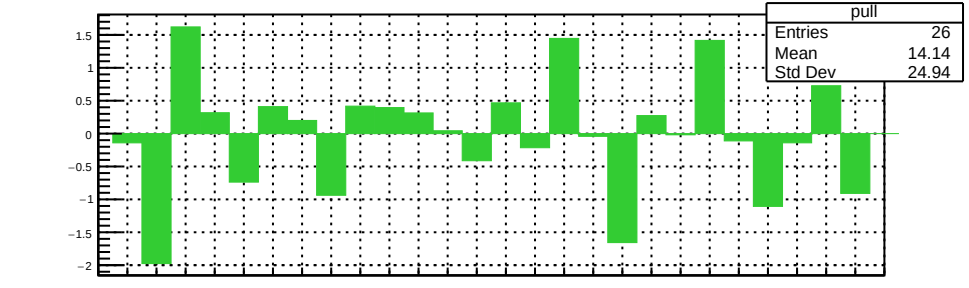

asym_sam6_rms vs run
χ² / ndf 1159 / 25
p0 1738 ± 2.456
1900
1850
1800
1750
1700
1650
1600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

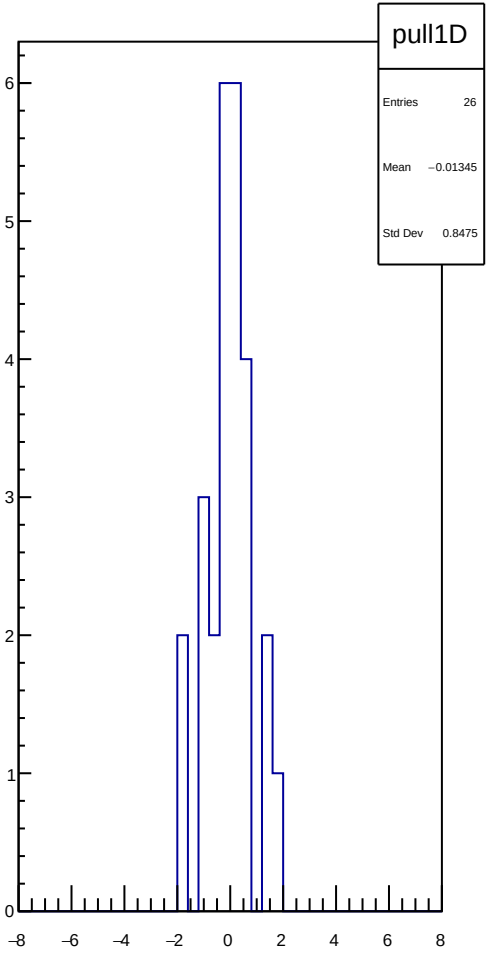

asym_sam7_mean vs run
χ² / ndf 22.91 / 25
p0 436.1 ± 611.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −166.6
Std Dev 179.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

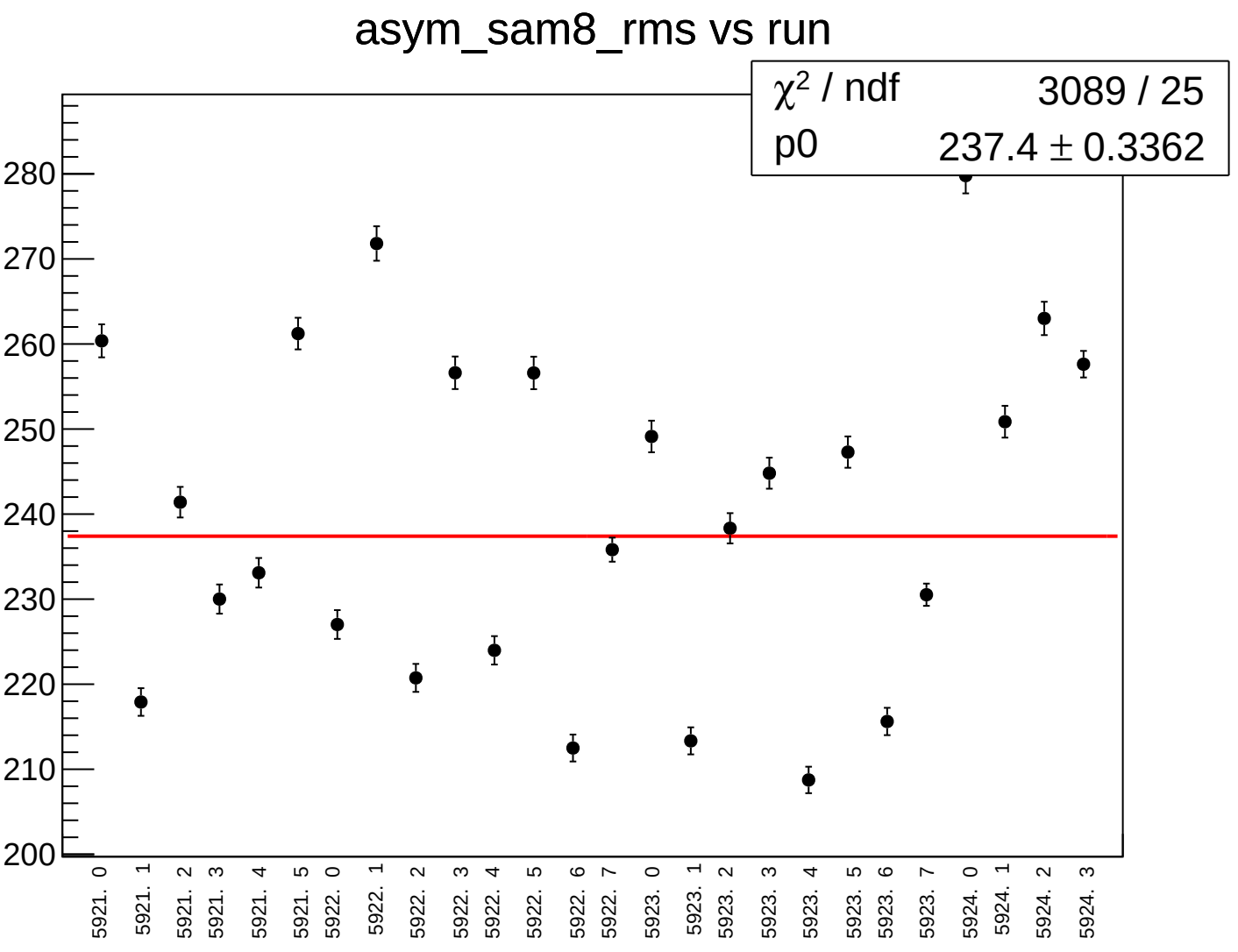

pull1D
Entries 26
Mean 0.009709
Std Dev 0.9387
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

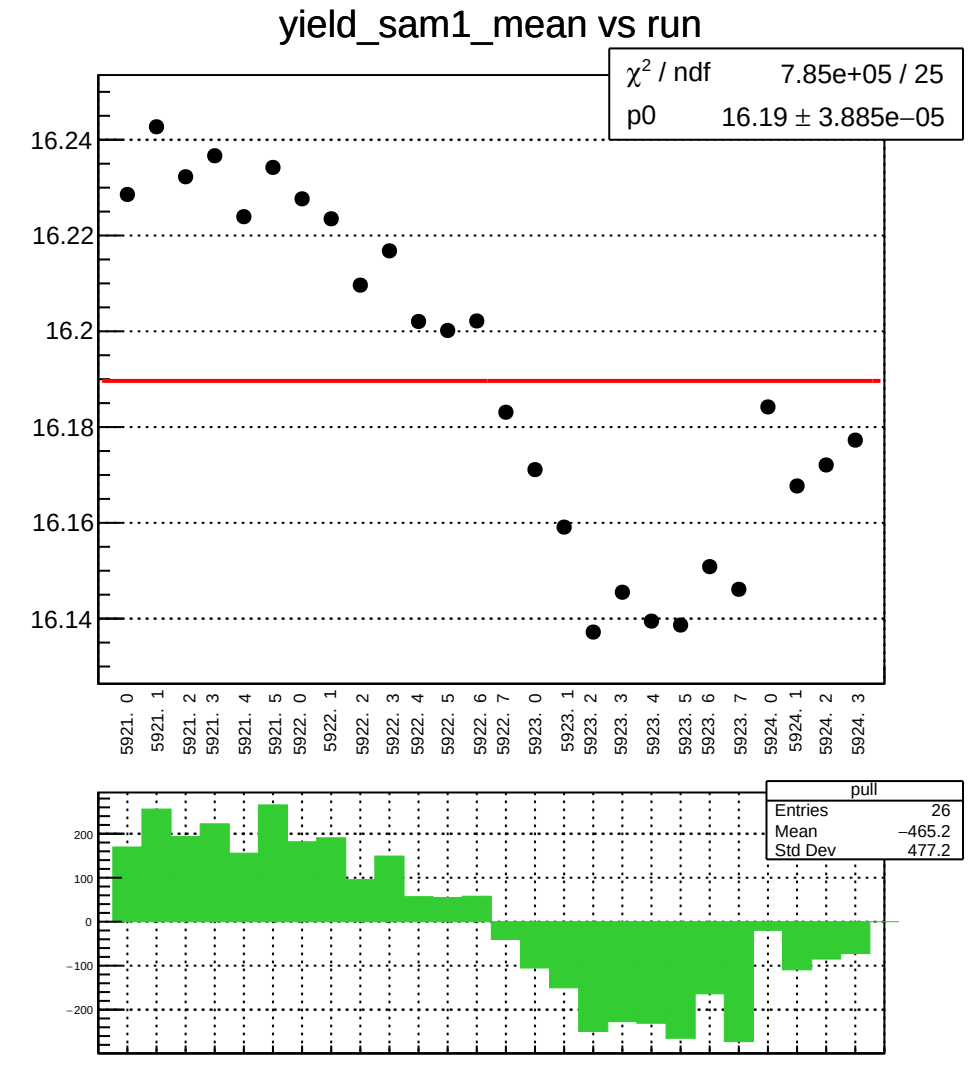

asym_sam7_rms vs run
χ² / ndf 4380 / 25
p0 305.2 ± 0.4327
380
360
340
320
300
280
260
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

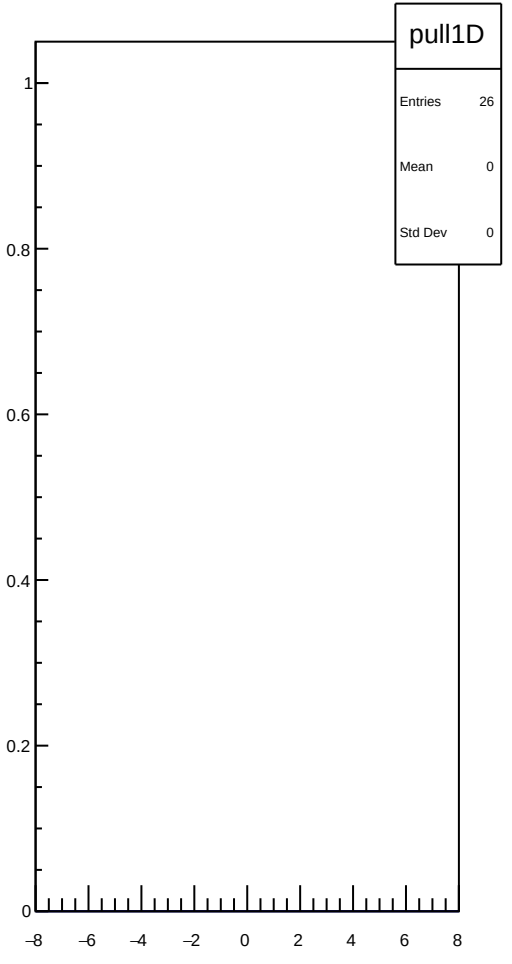

asym_sam8_mean vs run
χ² / ndf 18.68 / 25
p0 182.9 ± 475.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

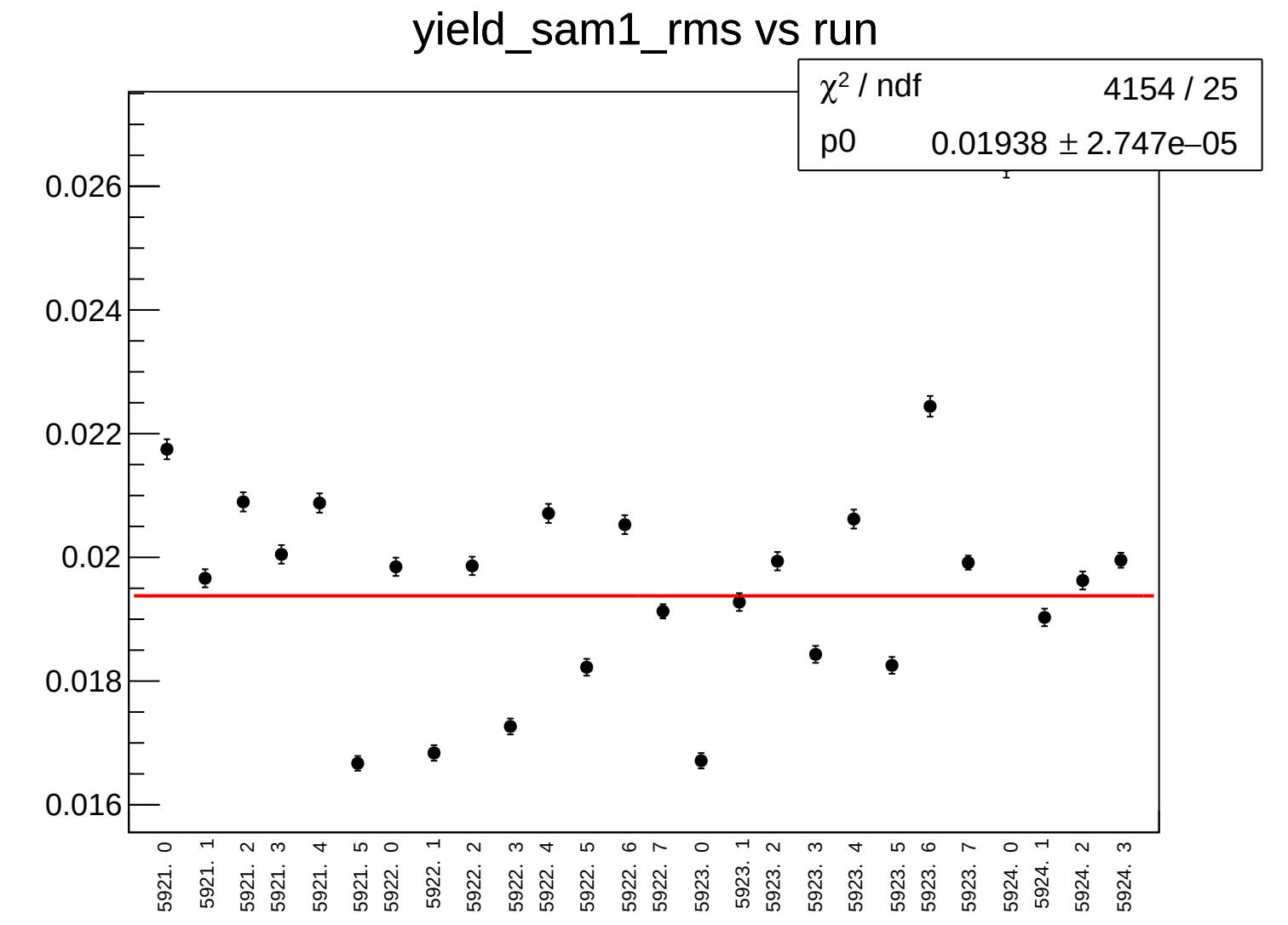

pull
Entries 26
Mean 14.14
Std Dev 24.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2

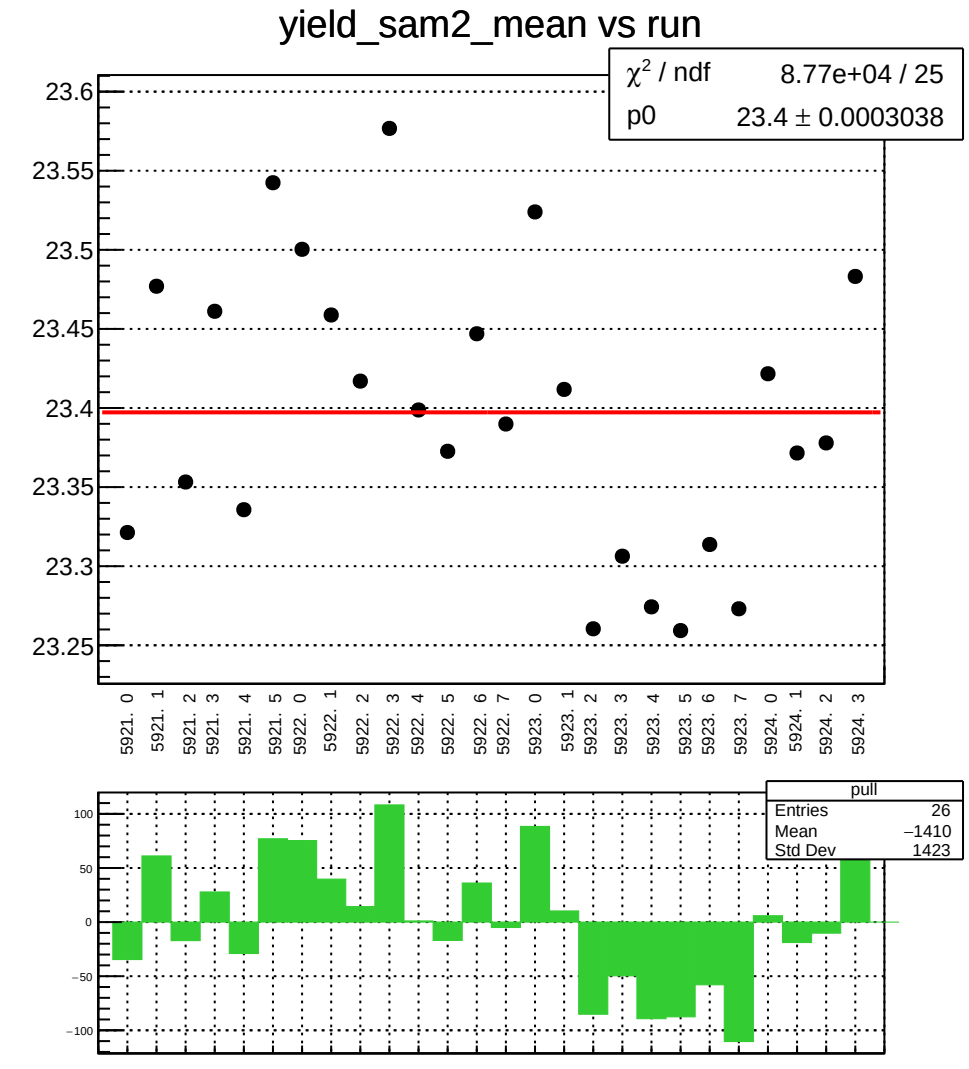

pull1D
Entries 26
Mean −0.01345
Std Dev 0.8475
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

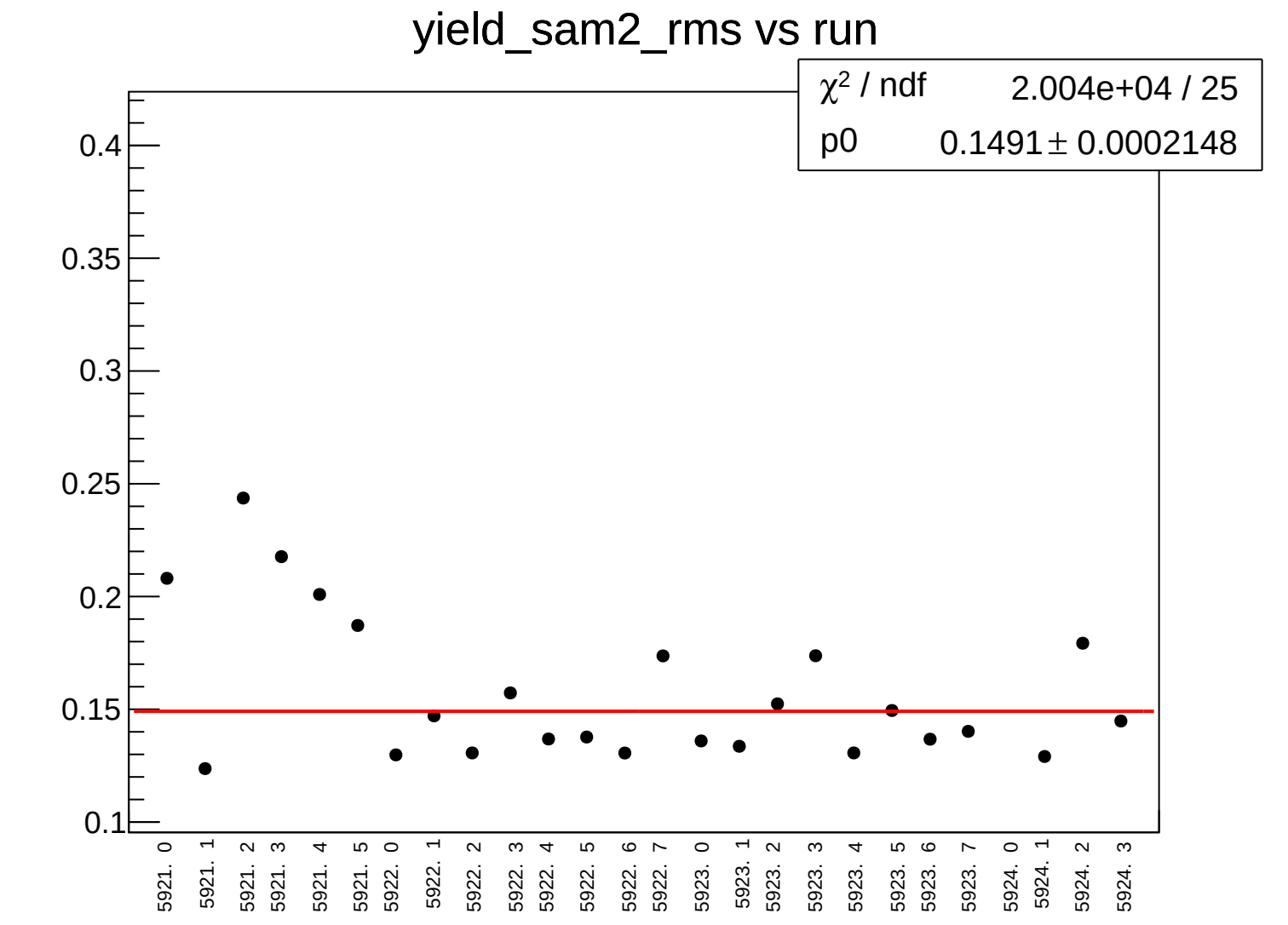

asym_sam8_rms vs run
χ² / ndf 3089 / 25
p0 237.4 ± 0.3362
280
270
260
250
240
230
220
210
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

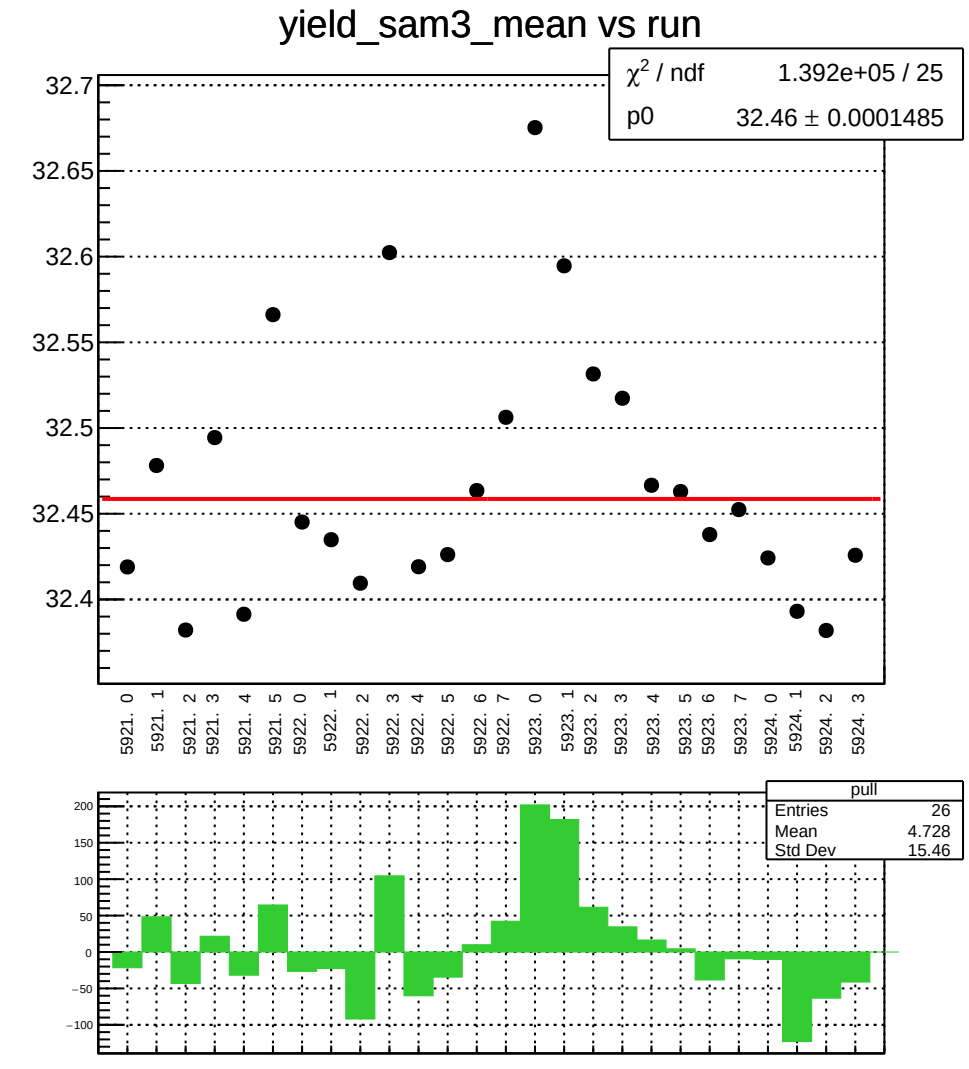

yield_sam1_mean vs run
χ² / ndf 7.85e+05 / 25
p0 16.19 ± 3.885e−05
16.24
16.22
16.2
16.18
16.16
16.14
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −465.2
Std Dev 477.2
200
100
0
−100
−200

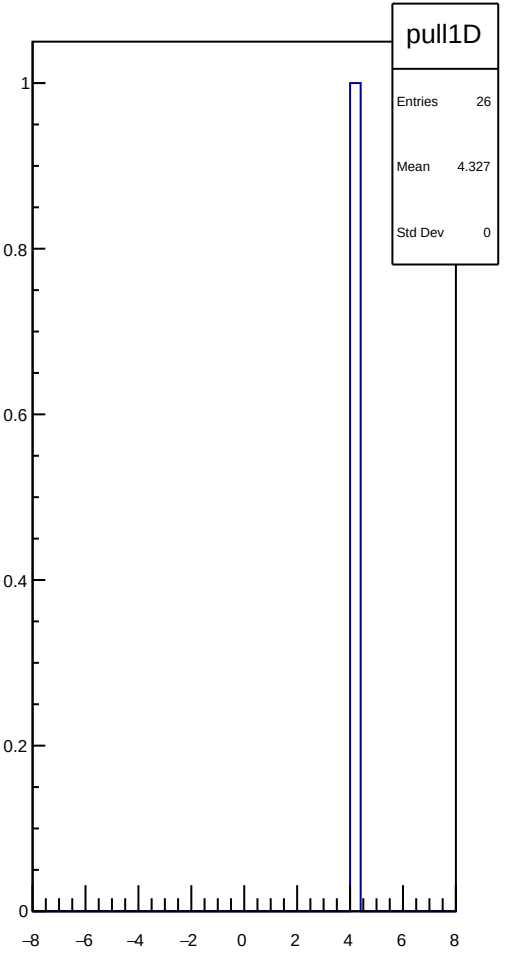

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

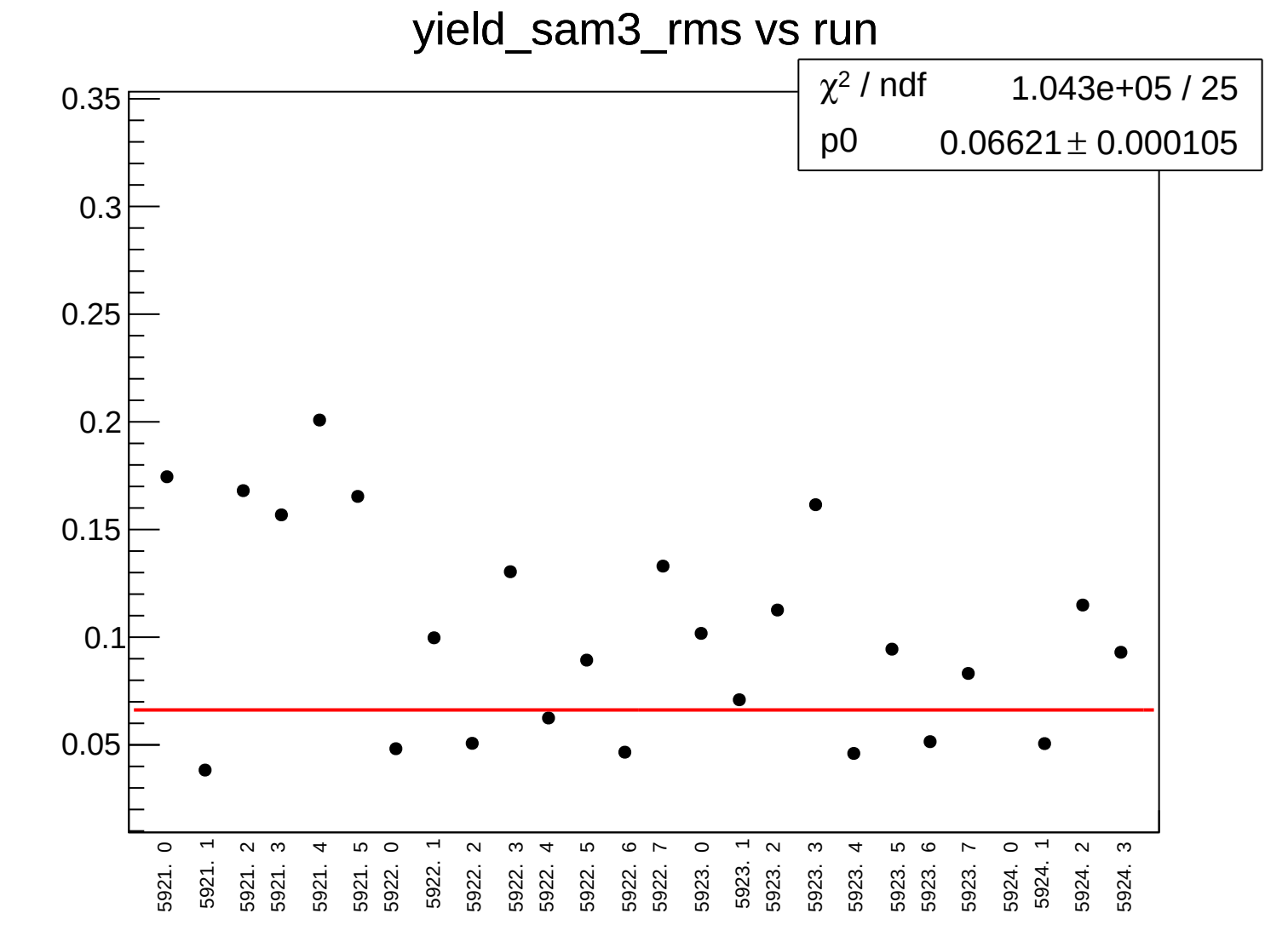

yield_sam1_rms vs run
χ² / ndf 4154 / 25
p0 0.01938 ± 2.747e−05
0.026
0.024
0.022
0.02
0.018
0.016
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

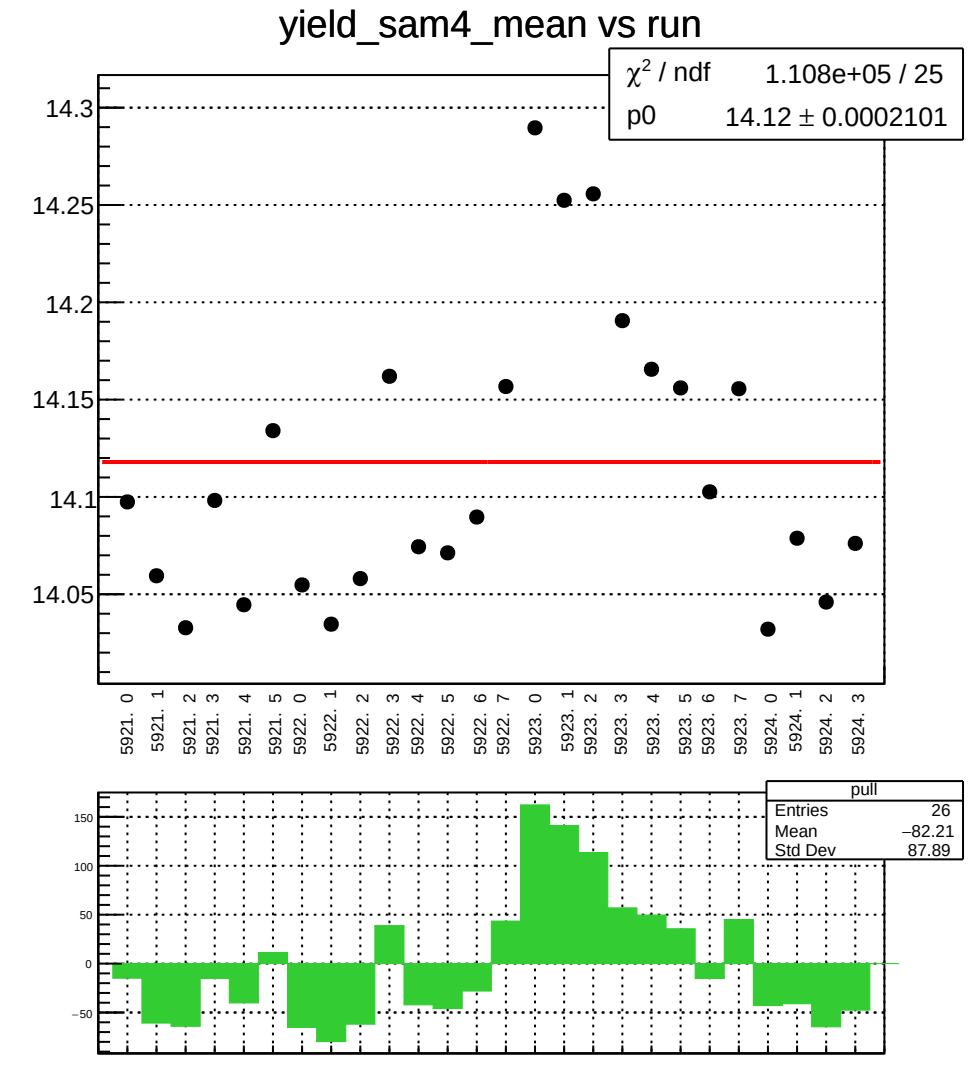

yield_sam2_mean vs run
χ² / ndf 8.77e+04 / 25
p0 23.4 ± 0.0003038
23.6
23.55
23.5
23.45
23.4
23.35
23.3
23.25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1410
Std Dev 1423
100
50
0
−50
−100
pull1D
Entries 26
Mean 0.6465
Std Dev 4.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

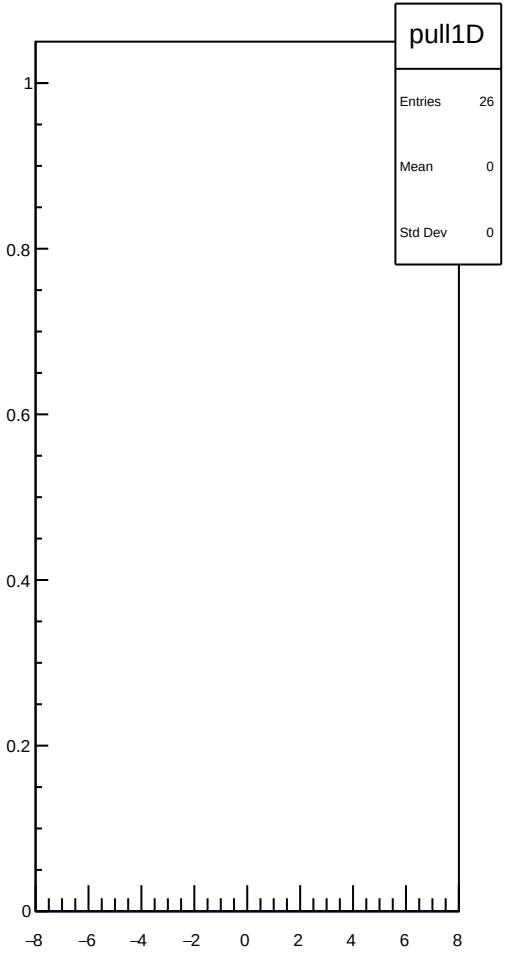

yield_sam2_rms vs run
χ² / ndf 2.004e+04 / 25
p0 0.1491 ± 0.0002148
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

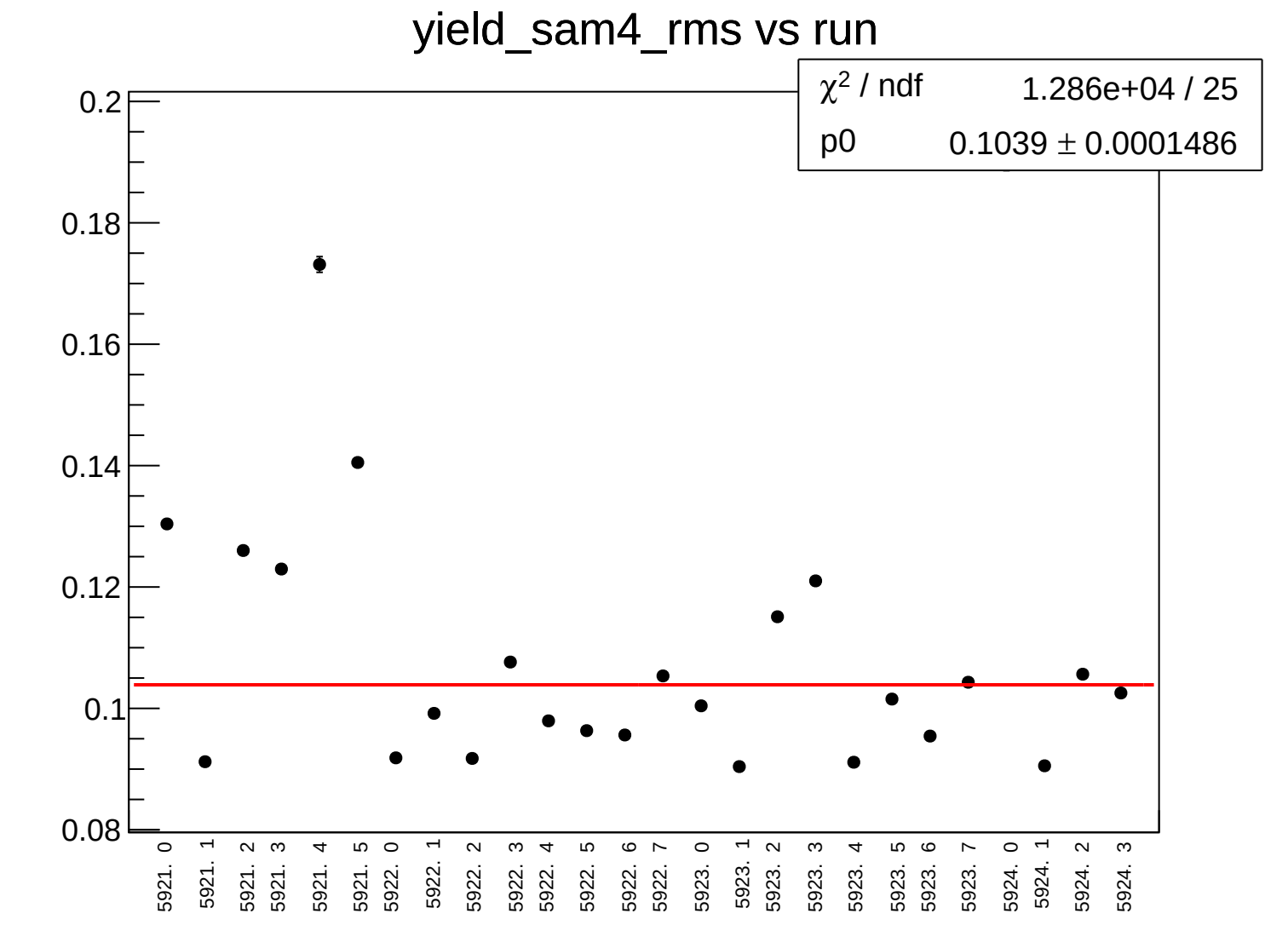

yield_sam3_mean vs run
χ² / ndf 1.392e+05 / 25
p0 32.46 ± 0.0001485
32.7
32.65
32.6
32.55
32.5
32.45
32.4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4.728
Std Dev 15.46
200
150
100
50
0
−50
−100

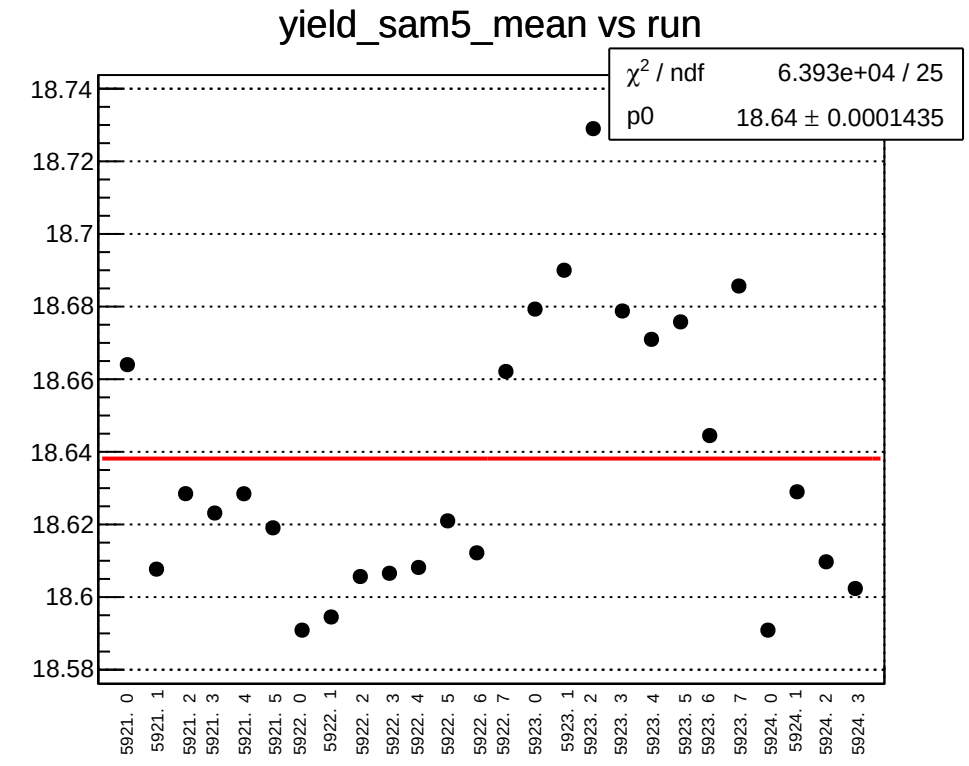

pull1D
Entries 26
Mean 4.327
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

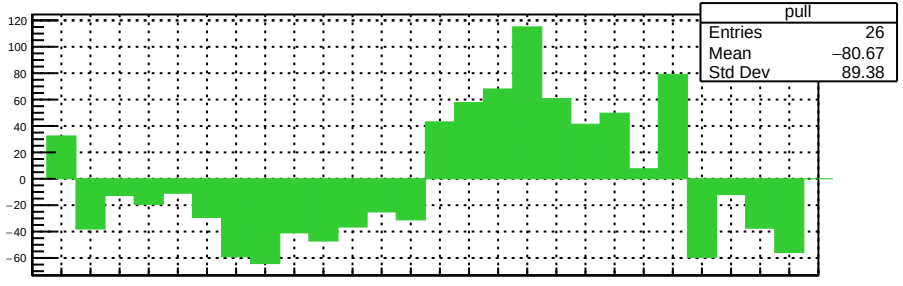

yield_sam3_rms vs run
χ² / ndf 1.043e+05 / 25
p0 0.06621 ± 0.000105
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

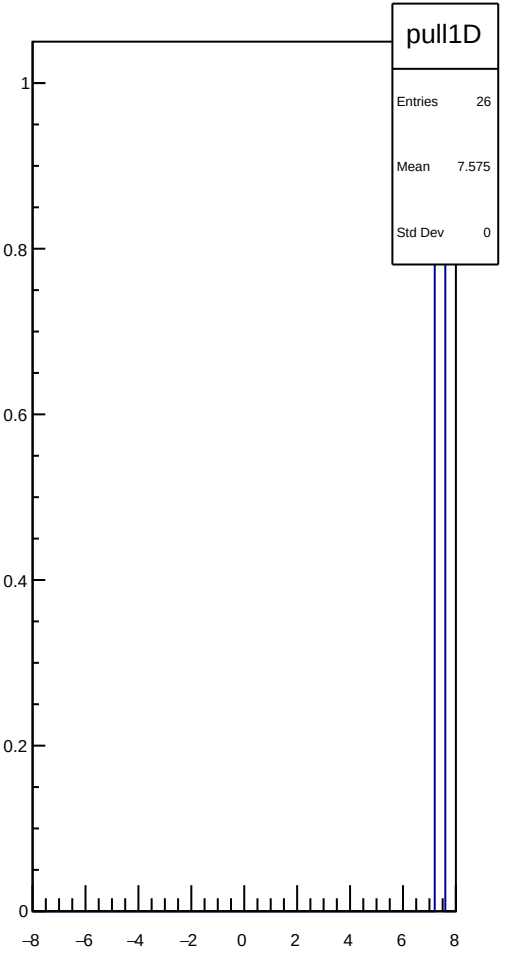

yield_sam4_mean vs run
χ² / ndf 1.108e+05 / 25
p0 14.12 ± 0.0002101
14.3
14.25
14.2
14.15
14.1
14.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −82.21
Std Dev 87.89
150
100
50
0
−50

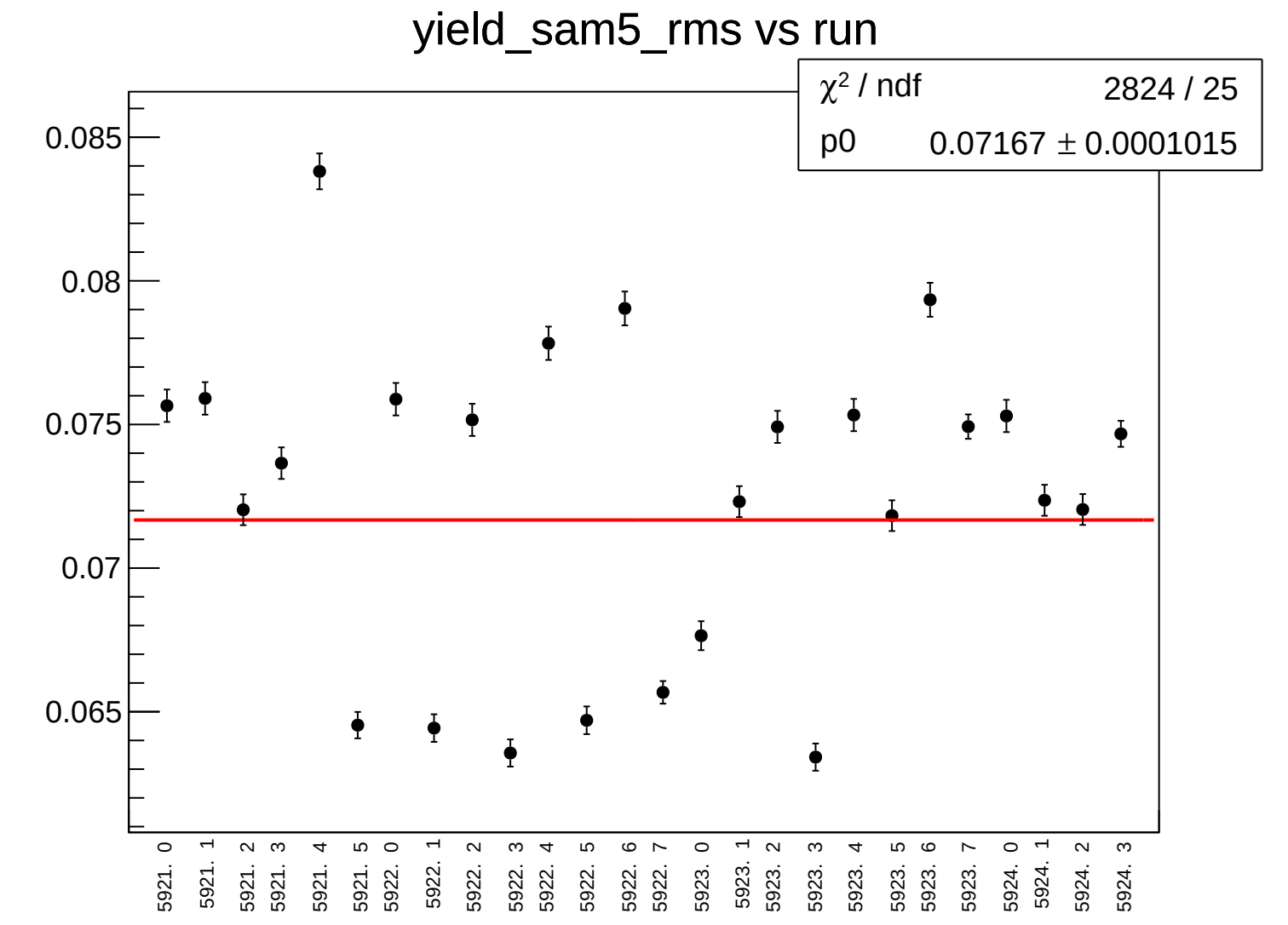

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

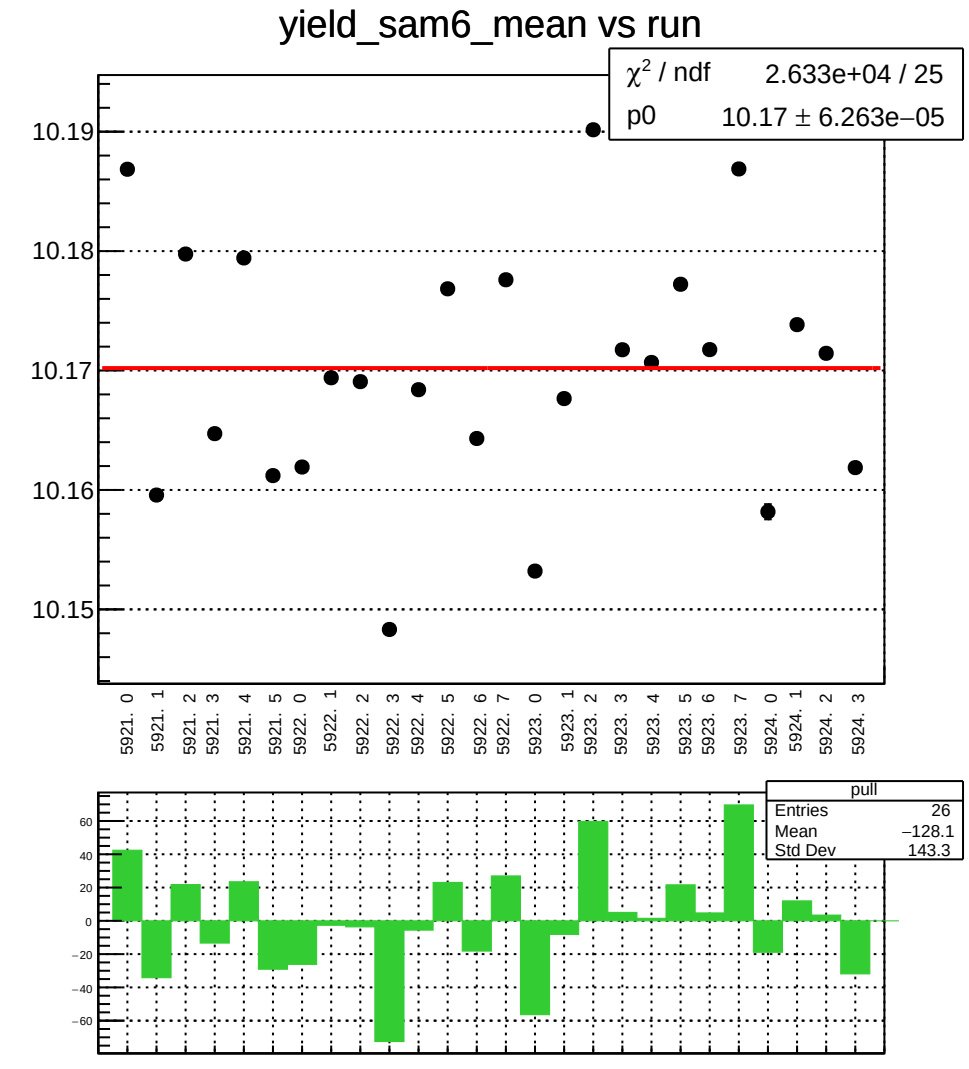

yield_sam4_rms vs run
χ² / ndf 1.286e+04 / 25
p0 0.1039 ± 0.0001486
0.2
0.18
0.16
0.14
0.12
0.1
0.08
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

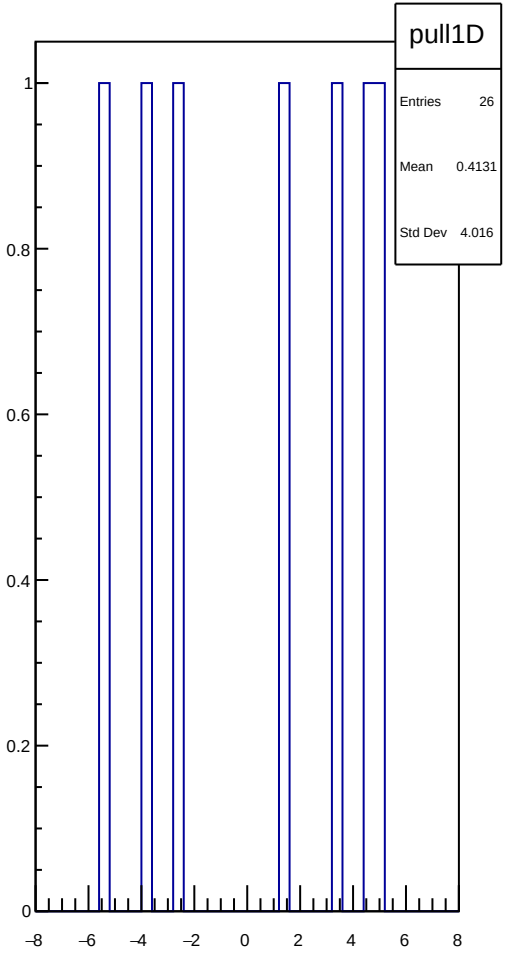

yield_sam5_mean vs run
χ² / ndf 6.393e+04 / 25
p0 18.64 ± 0.0001435
18.74
18.72
18.7
18.68
18.66
18.64
18.62
18.6
18.58
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

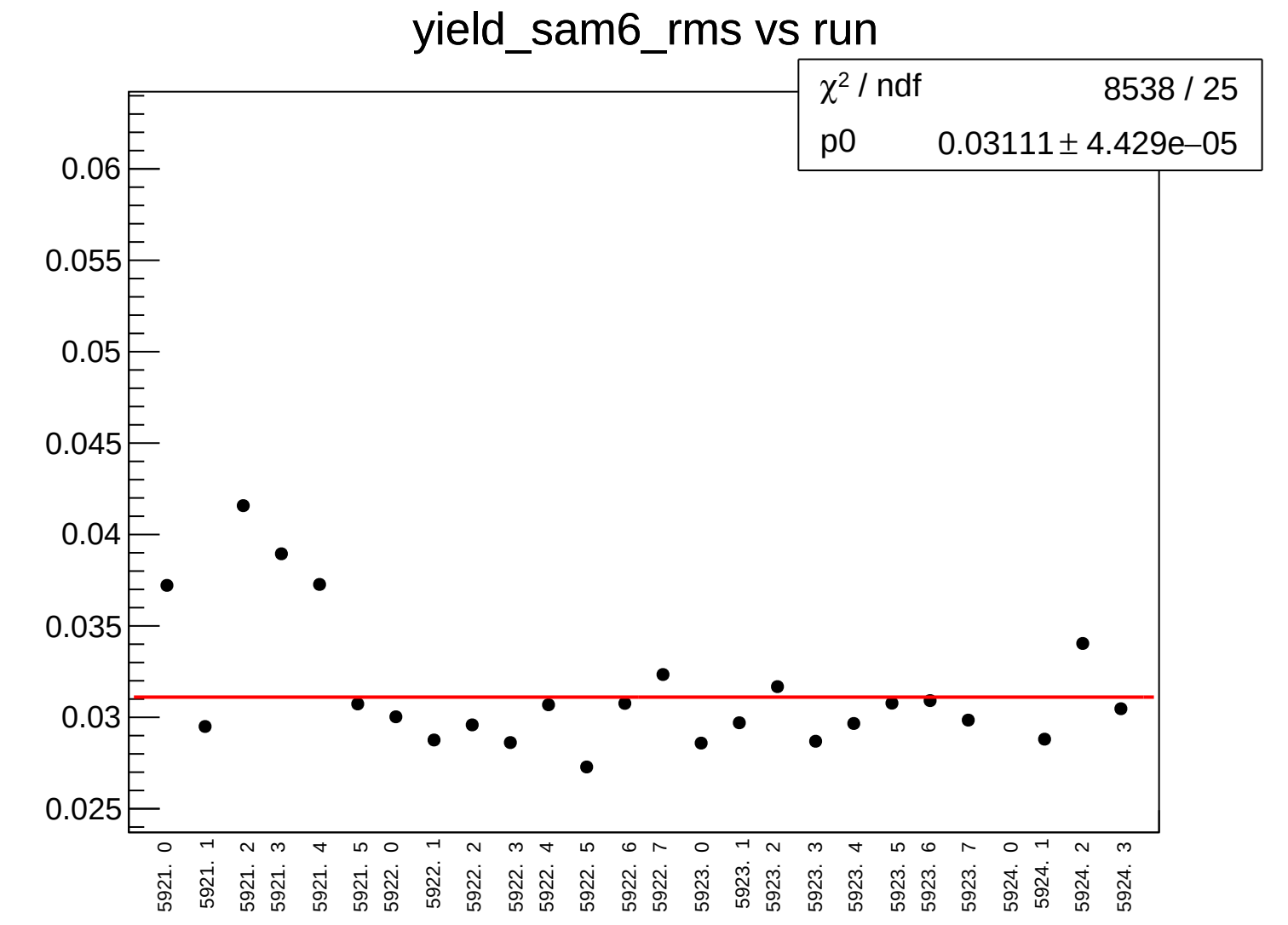

pull
Entries 26
Mean −80.67
Std Dev 89.38
120
100
80
60
40
20
0
−20
−40
−60

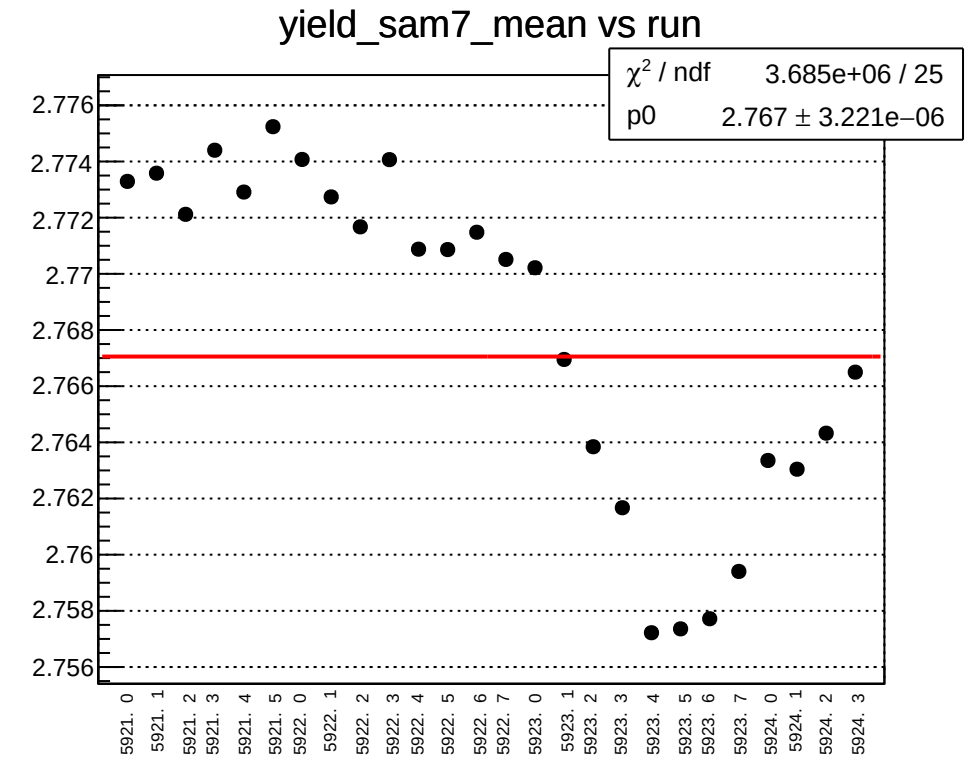

pull1D
Entries 26
Mean 7.575
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

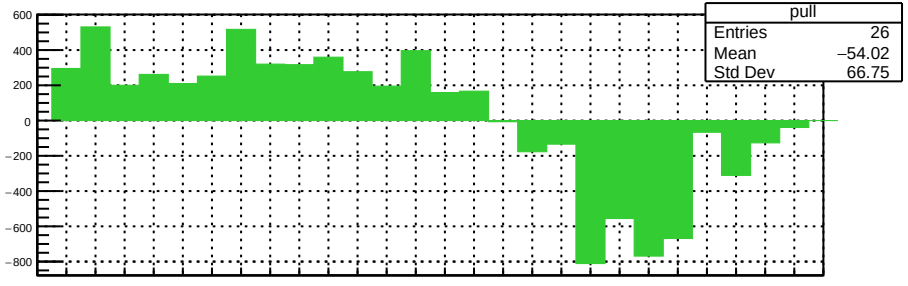

yield_sam5_rms vs run
χ² / ndf 2824 / 25
p0 0.07167 ± 0.0001015
0.085
0.08
0.075
0.07
0.065
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

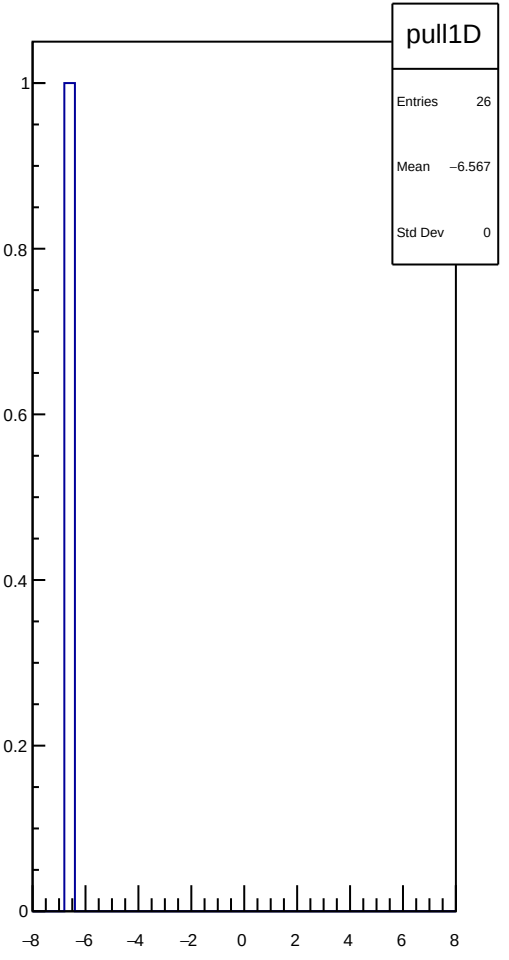

yield_sam6_mean vs run
χ² / ndf 2.633e+04 / 25
p0 10.17 ± 6.263e−05
10.19
10.18
10.17
10.16
10.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −128.1
Std Dev 143.3
60
40
20
0
−20
−40
−60

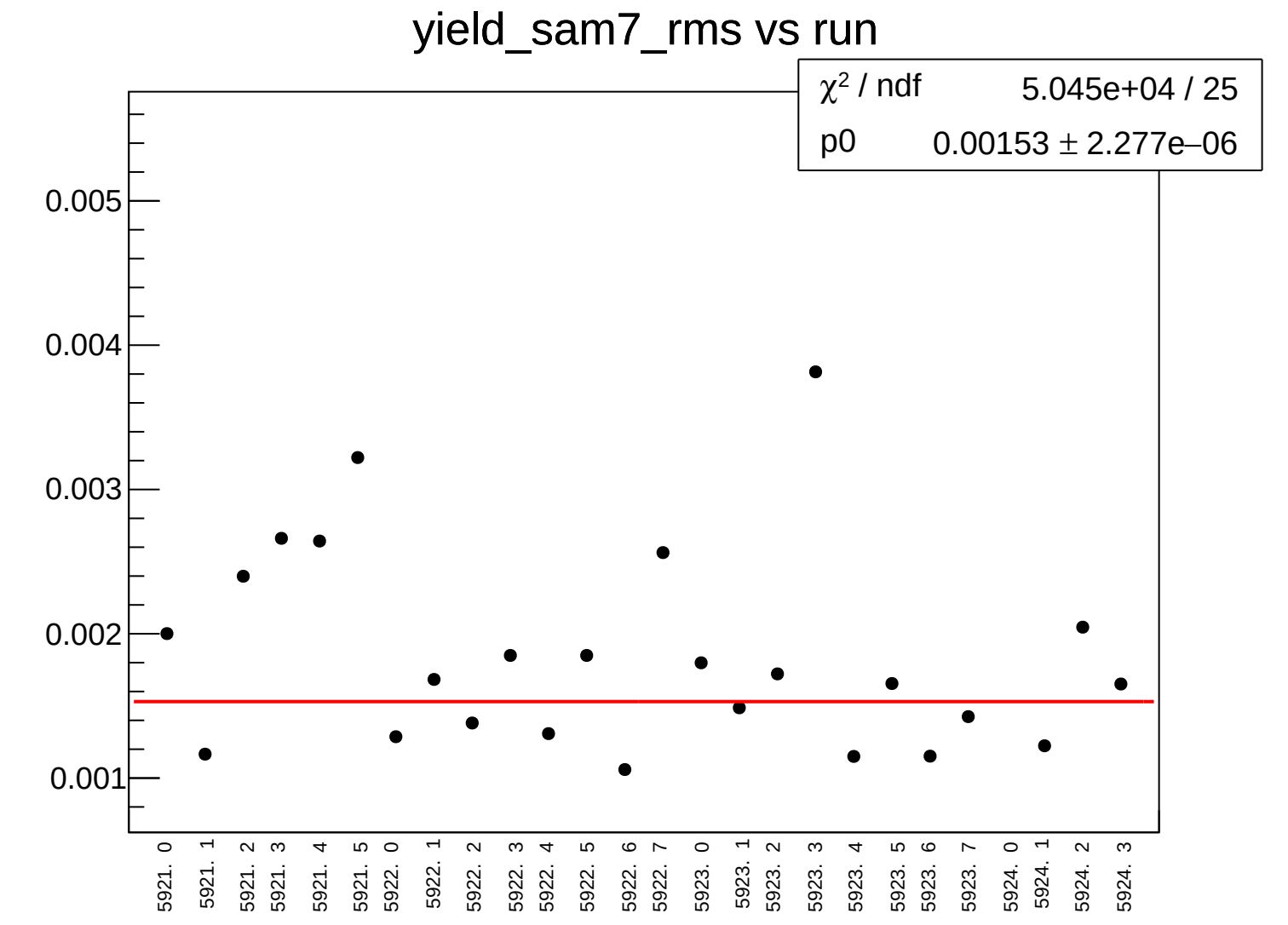

pull1D
Entries 26
Mean 0.4131
Std Dev 4.016
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

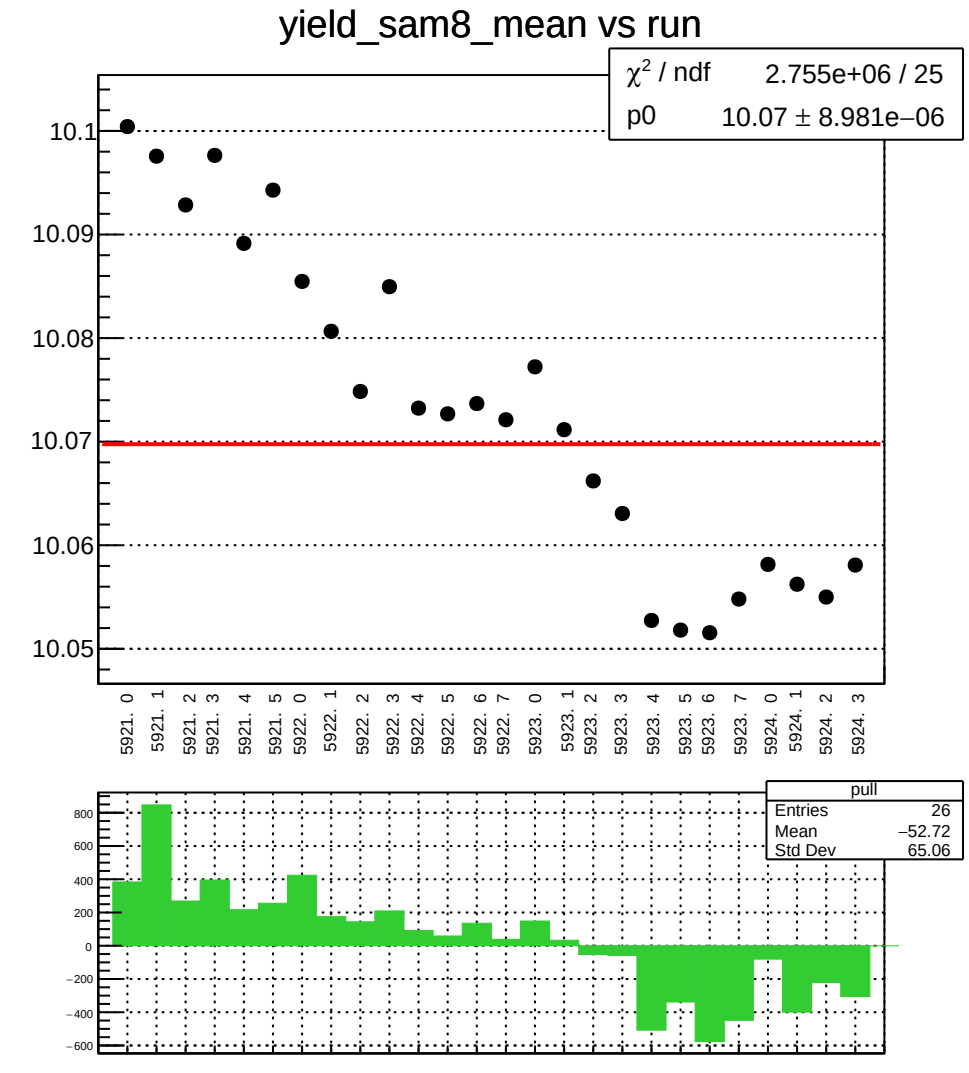

yield_sam6_rms vs run
χ² / ndf 8538 / 25
p0 0.03111 ± 4.429e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

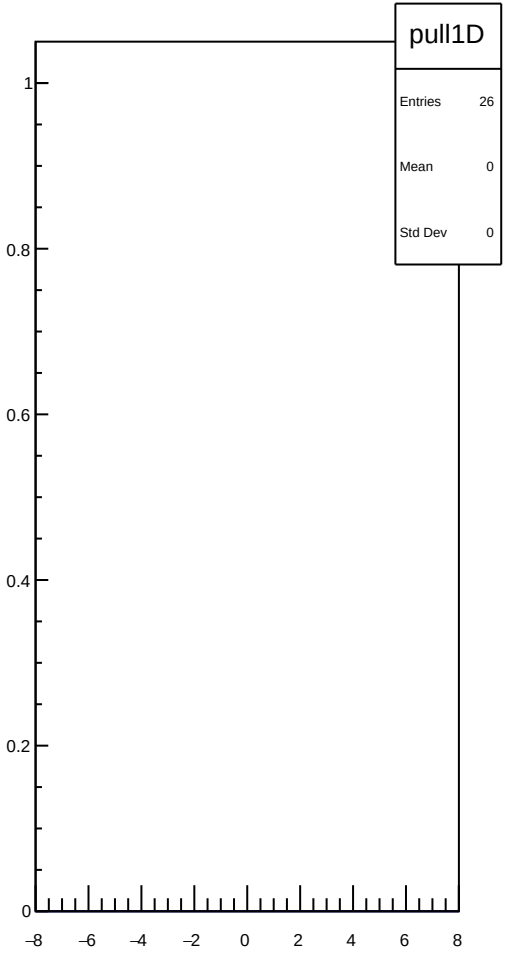

yield_sam7_mean vs run
χ² / ndf 3.685e+06 / 25
p0 2.767 ± 3.221e−06
2.776
2.774
2.772
2.77
2.768
2.766
2.764
2.762
2.76
2.758
2.756
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

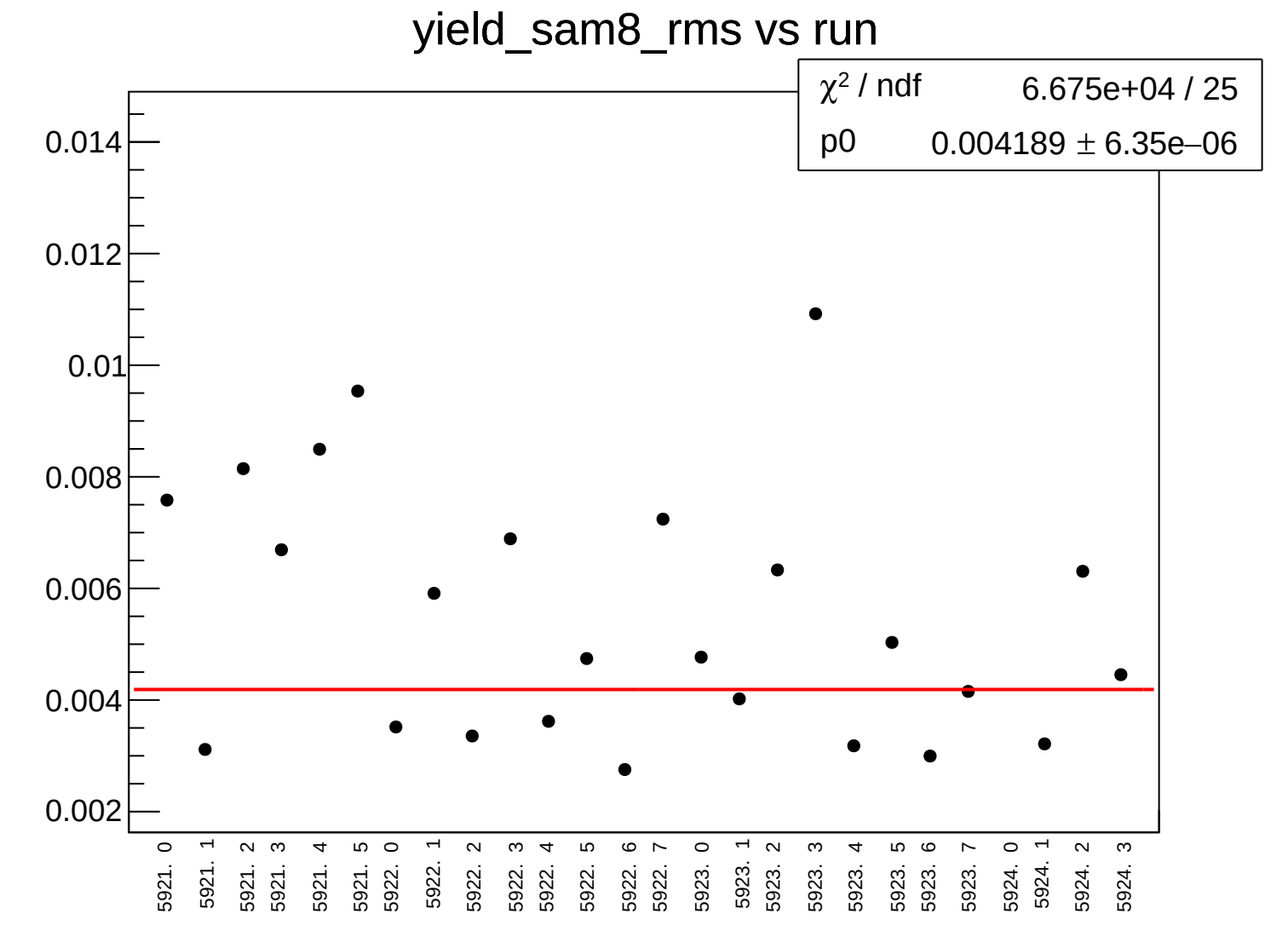

pull
Entries 26
Mean −54.02
Std Dev 66.75
600
400
200
0
−200
−400
−600
−800

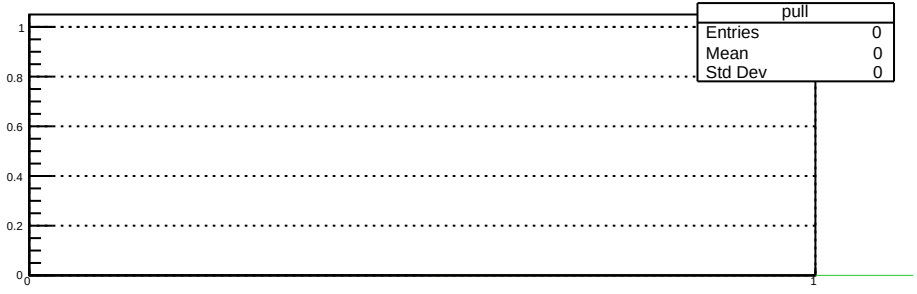

pull1D
Entries 26
Mean −6.567
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

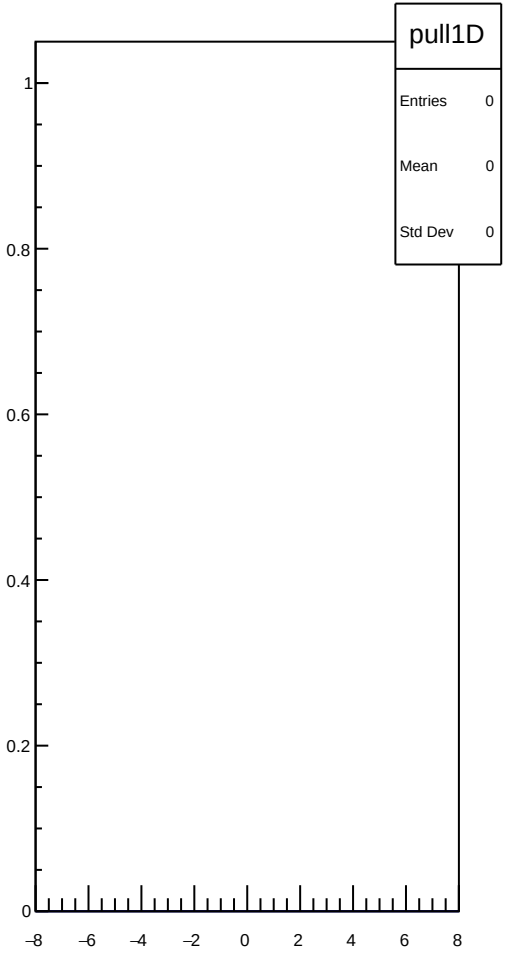

yield_sam7_rms vs run
χ² / ndf 5.045e+04 / 25
p0 0.00153 ± 2.277e–06
0.005
0.004
0.003
0.002
0.001
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

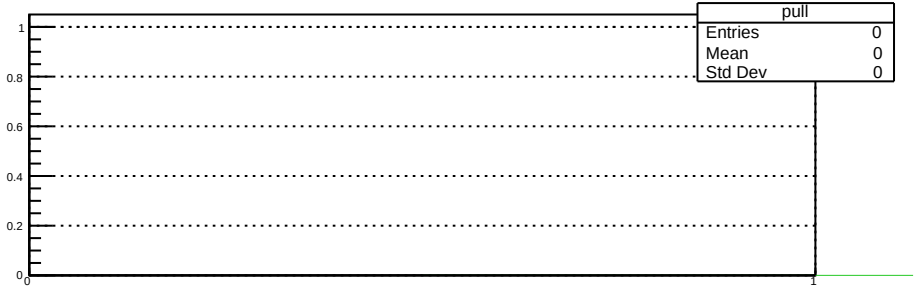

yield_sam8_mean vs run
χ² / ndf 2.755e+06 / 25
p0 10.07 ± 8.981e−06
10.1
10.09
10.08
10.07
10.06
10.05
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −52.72
Std Dev 65.06
800
600
400
200
0
−200
−400
−600

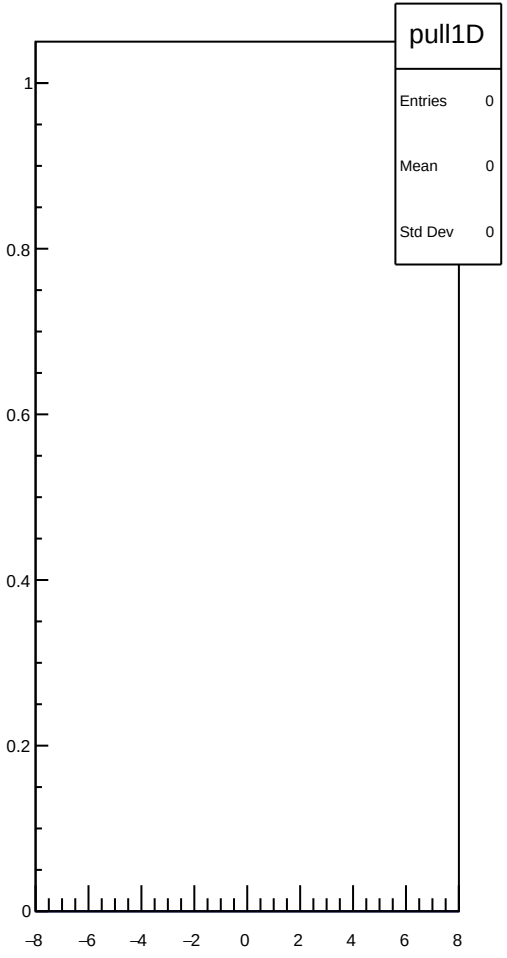

pull1D
Entries 26
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

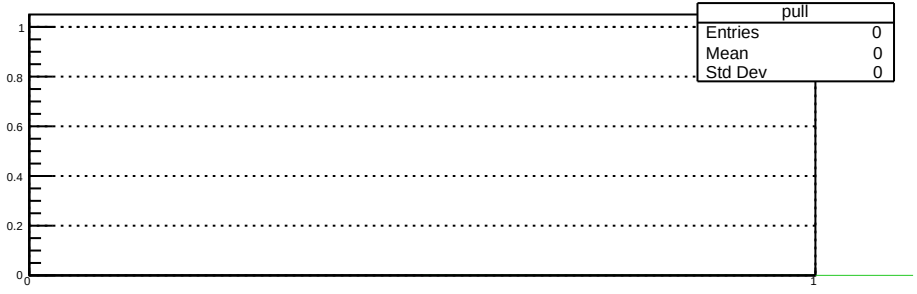

yield_sam8_rms vs run
χ² / ndf 6.675e+04 / 25
p0 0.004189 ± 6.35e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

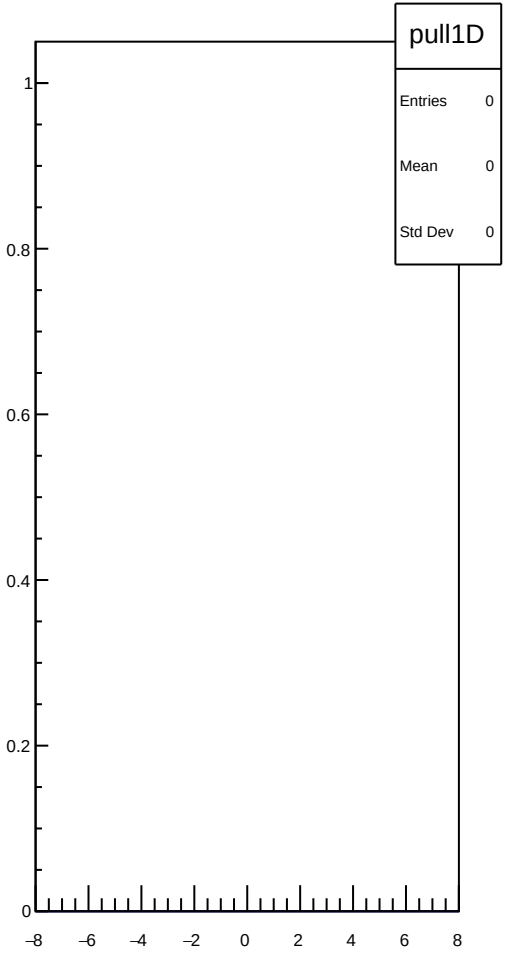

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

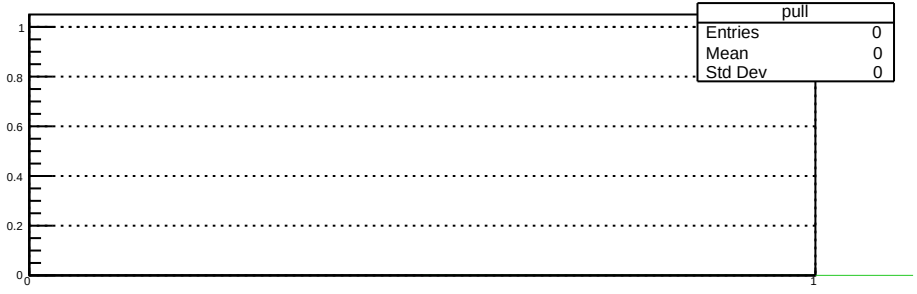

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

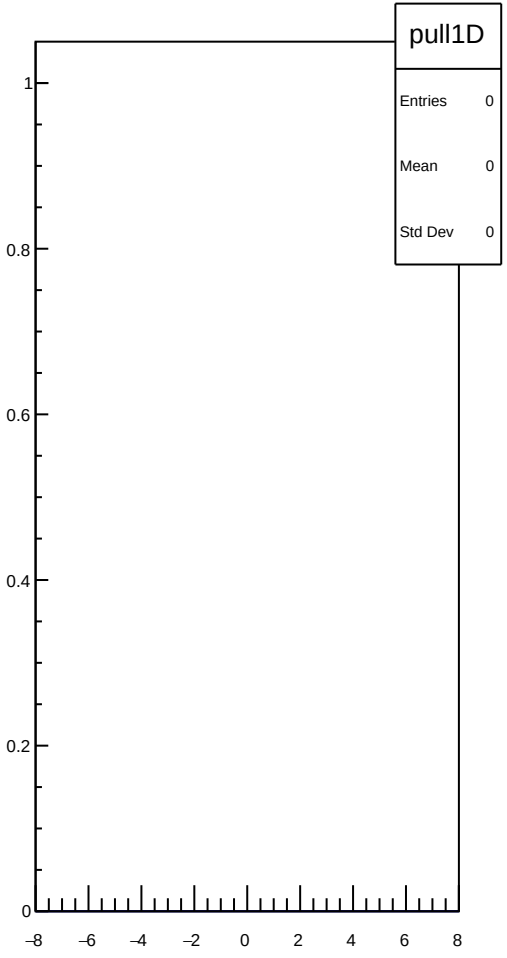

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

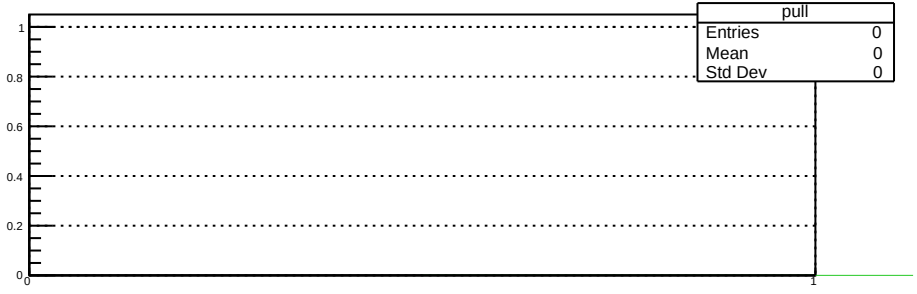

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

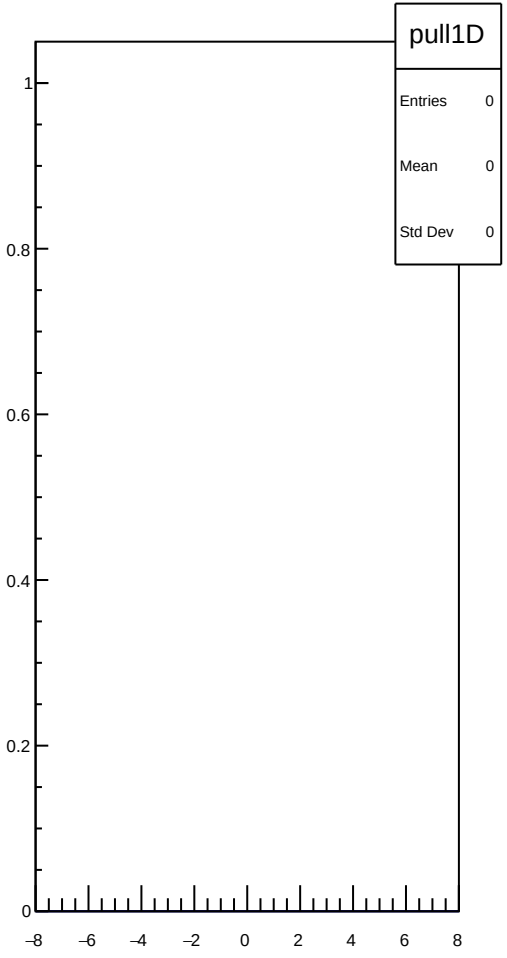

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

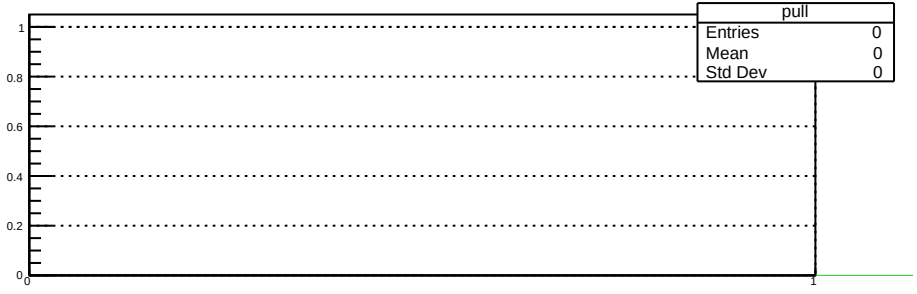

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

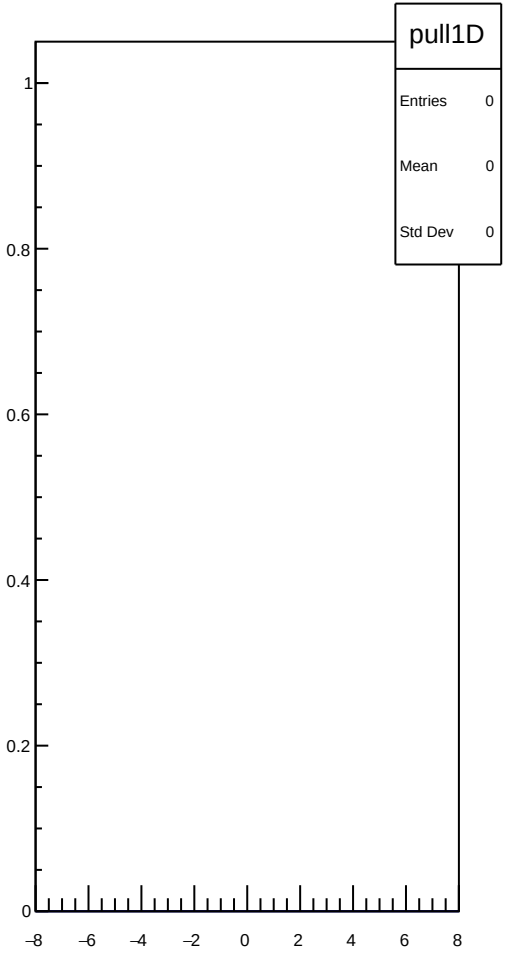

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

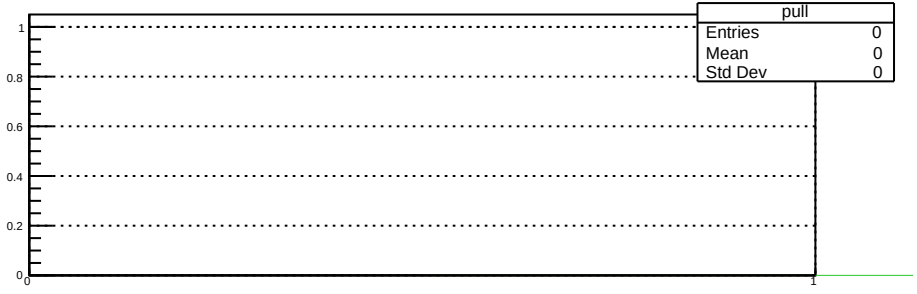

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

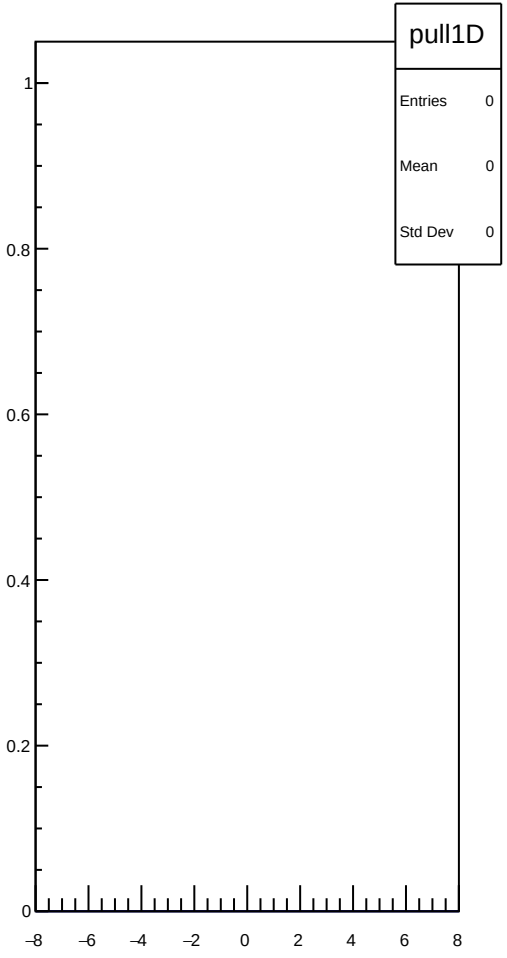

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

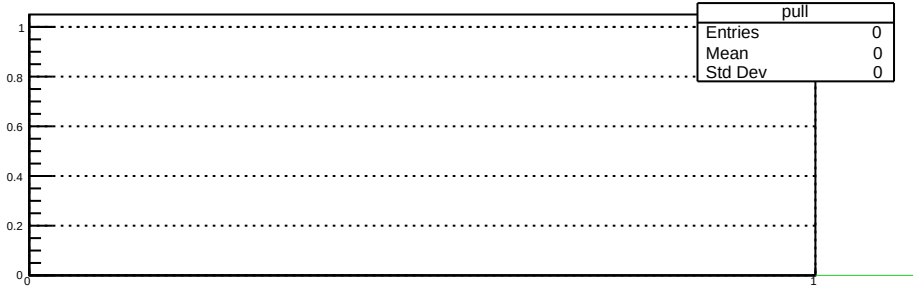

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

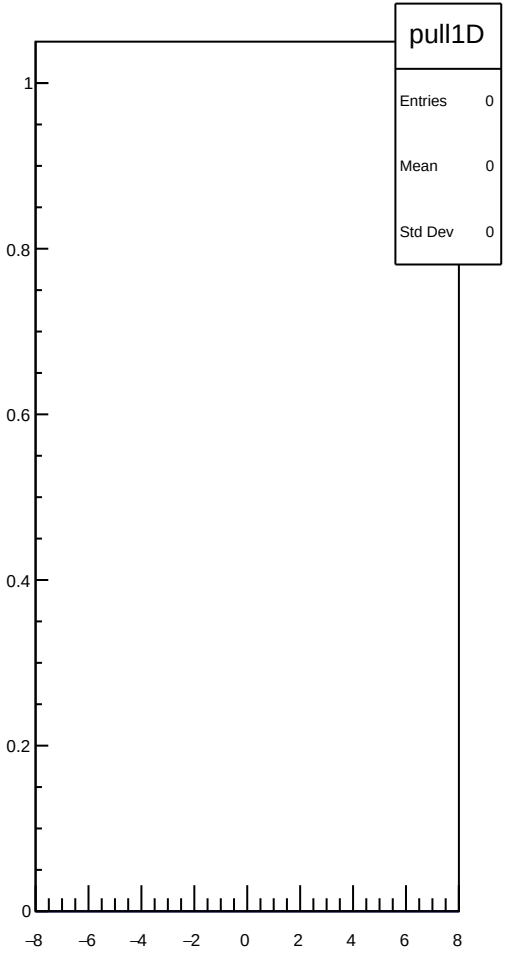

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

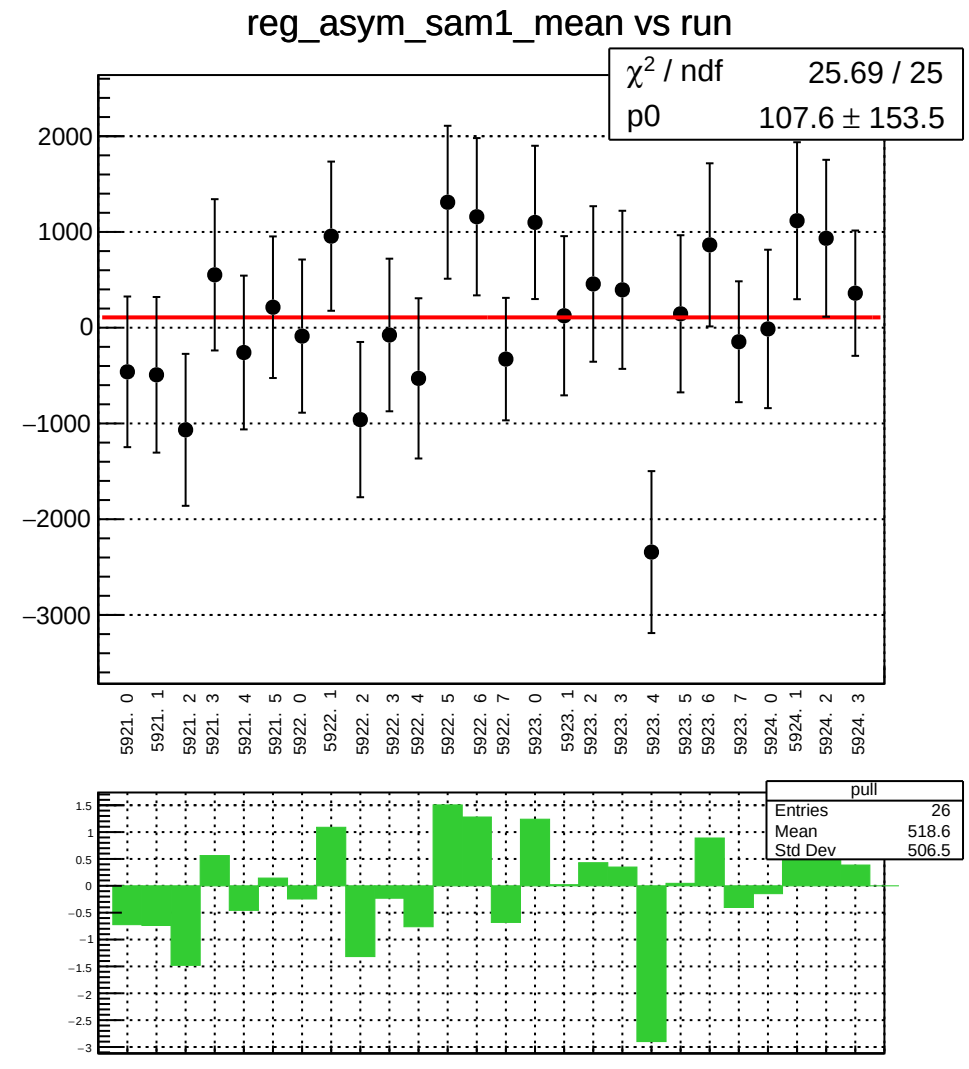

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

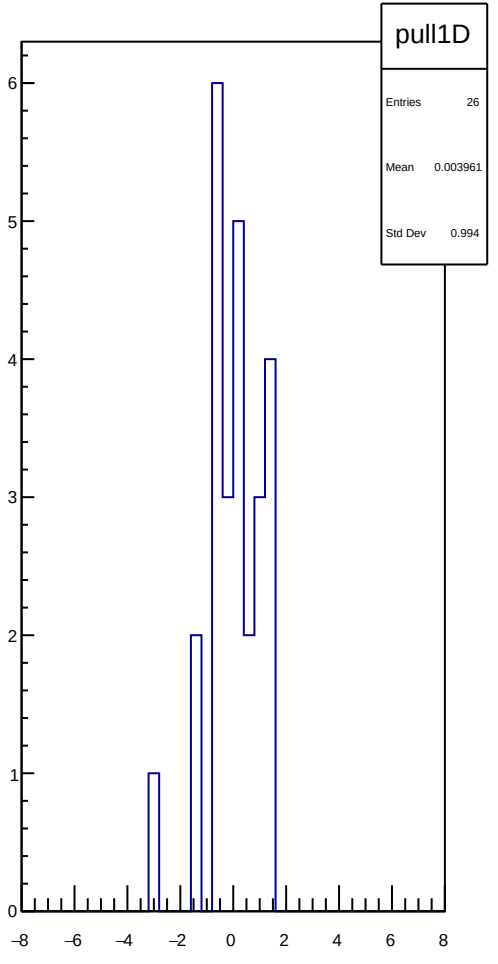

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

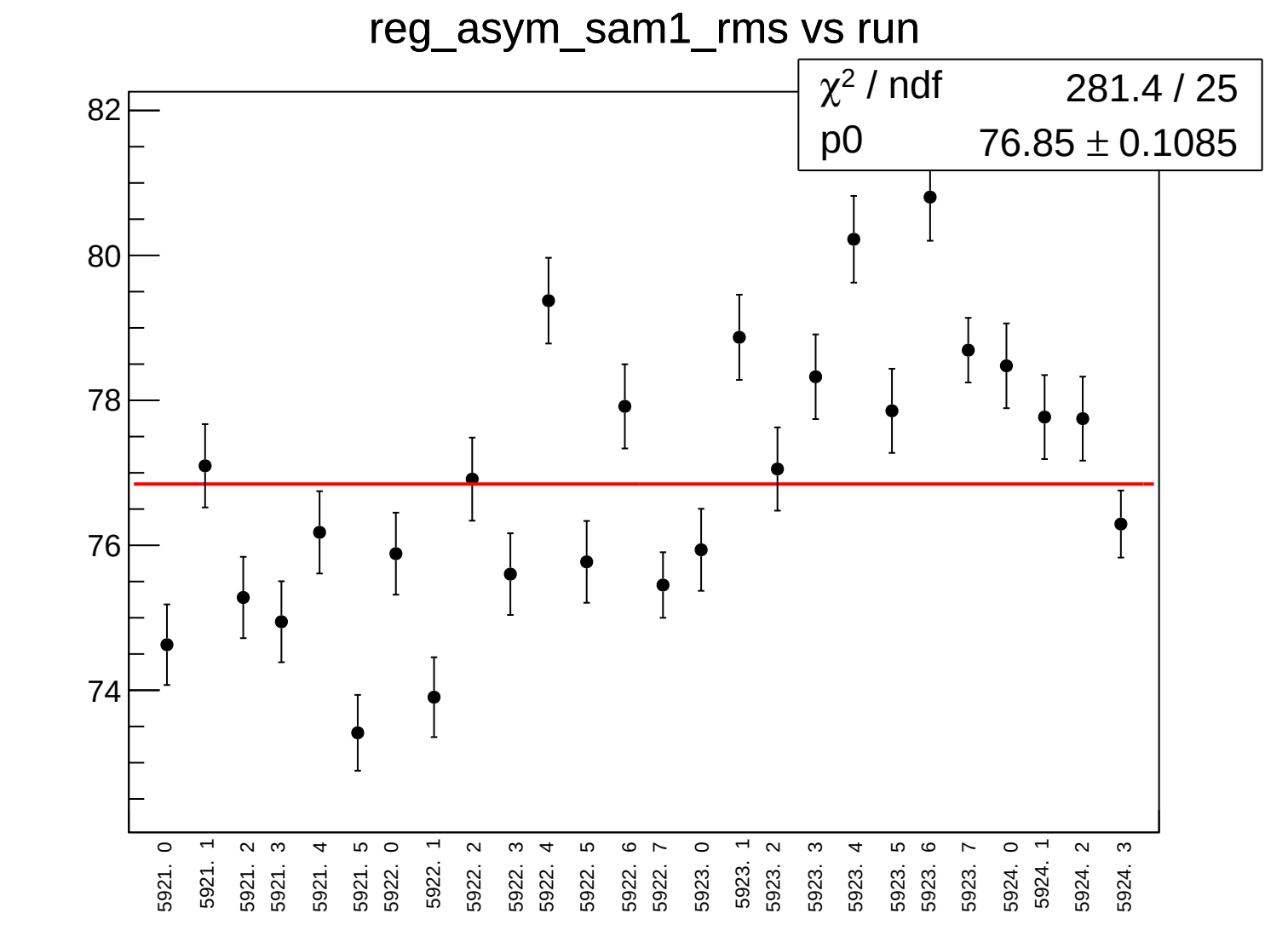

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

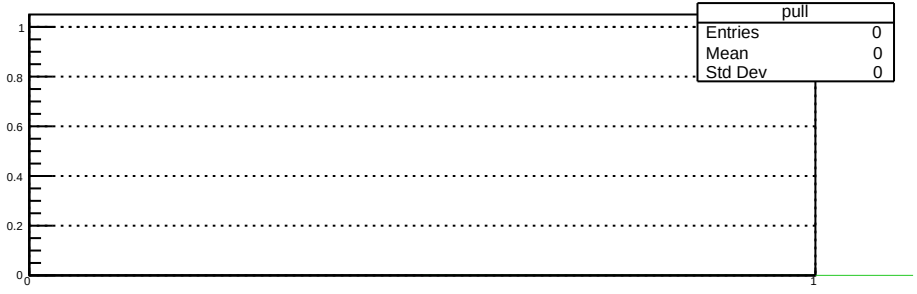

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

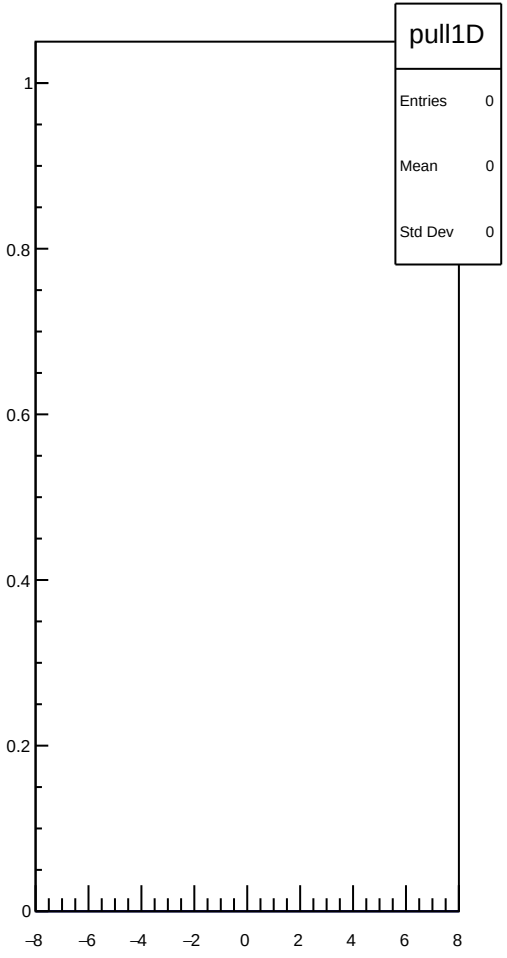

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

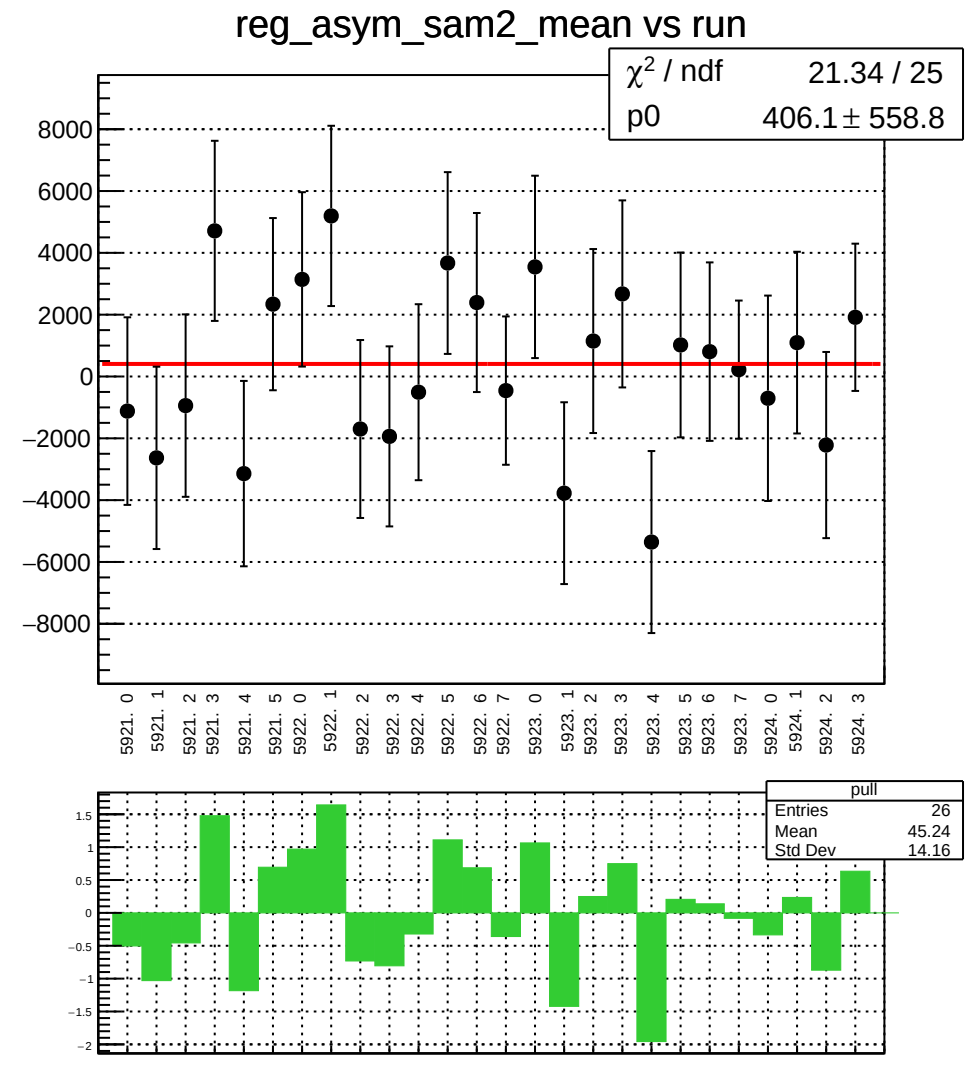

reg_asym_sam1_mean vs run
χ² / ndf 25.69 / 25
p0 107.6 ± 153.5
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 518.6
Std Dev 506.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

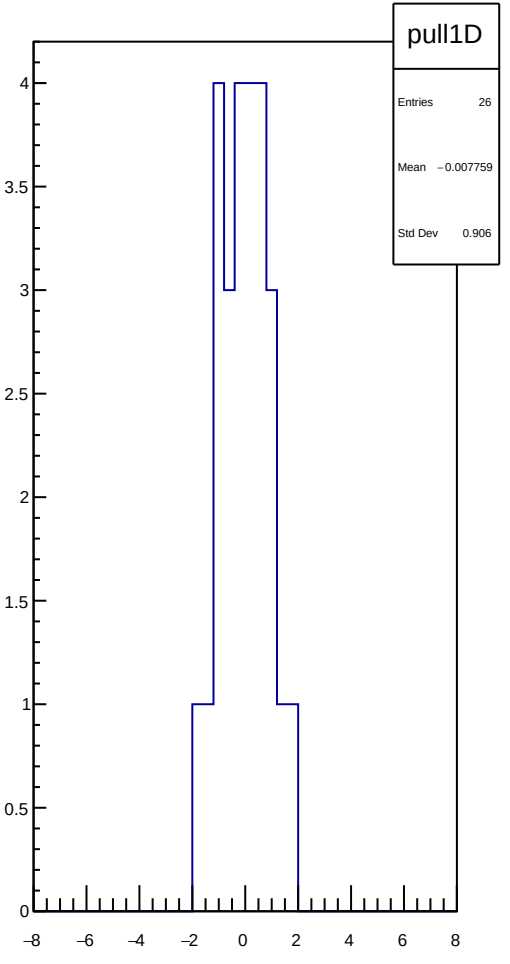

pull1D
Entries 26
Mean 0.003961
Std Dev 0.994
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

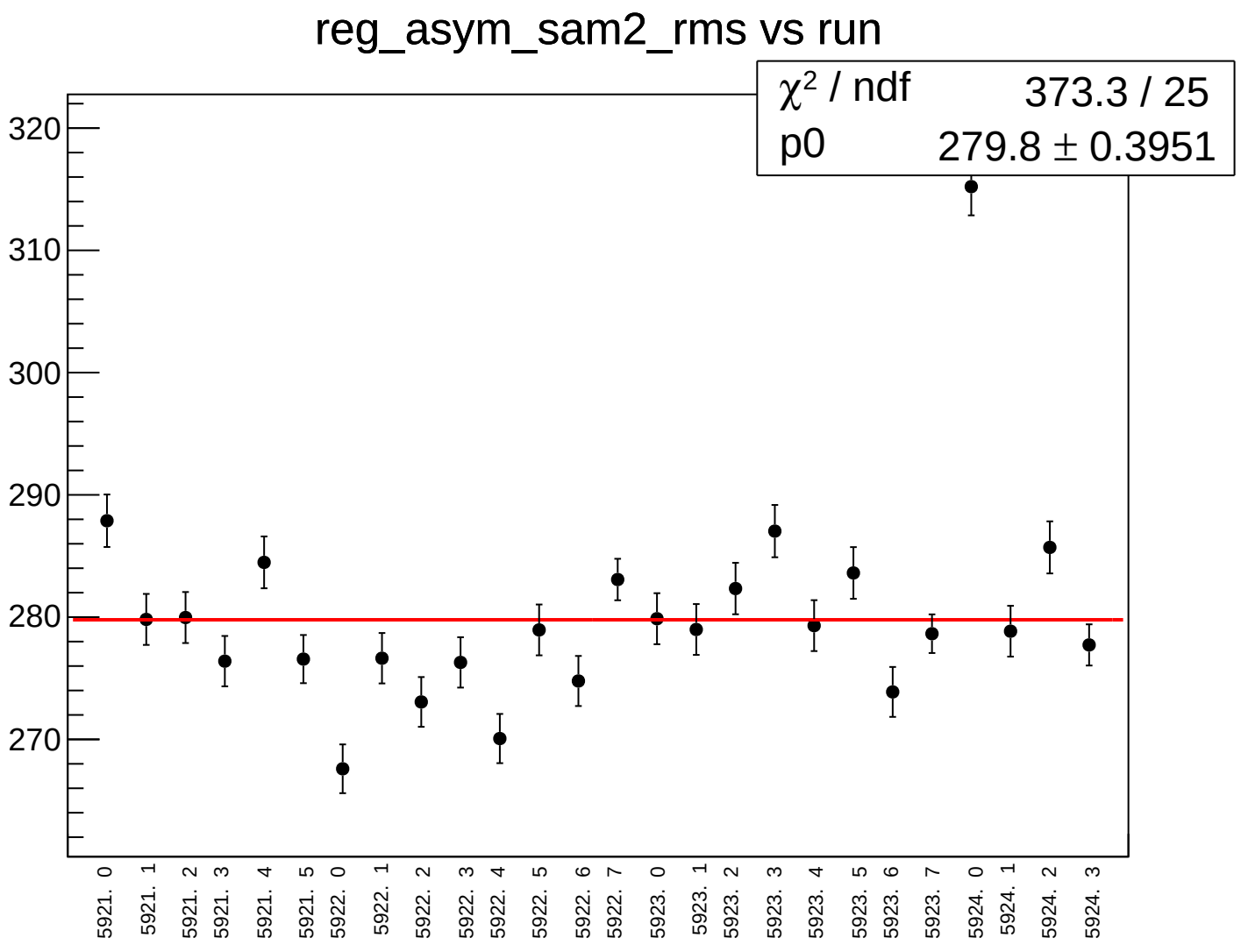

reg_asym_sam1_rms vs run
χ² / ndf 281.4 / 25
p0 76.85 ± 0.1085
82
80
78
76
74
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

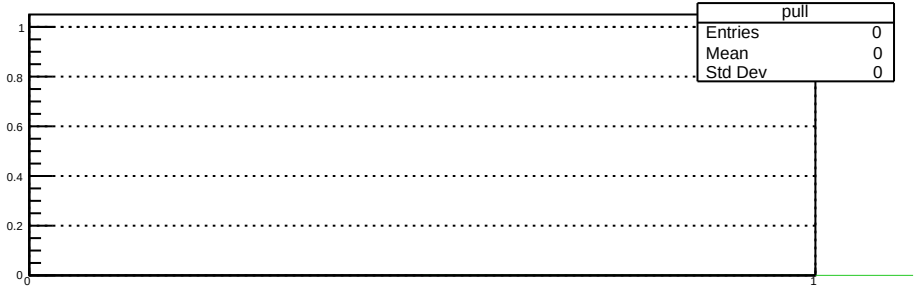

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

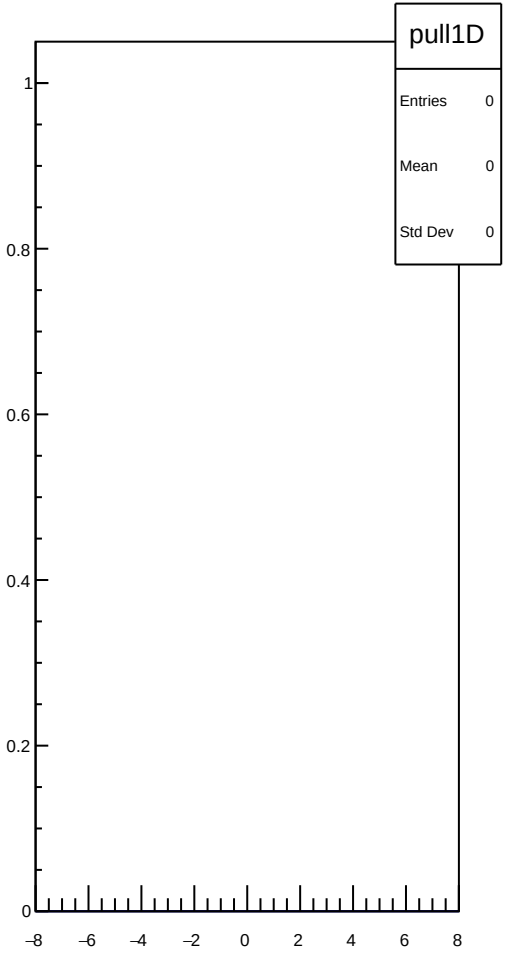

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

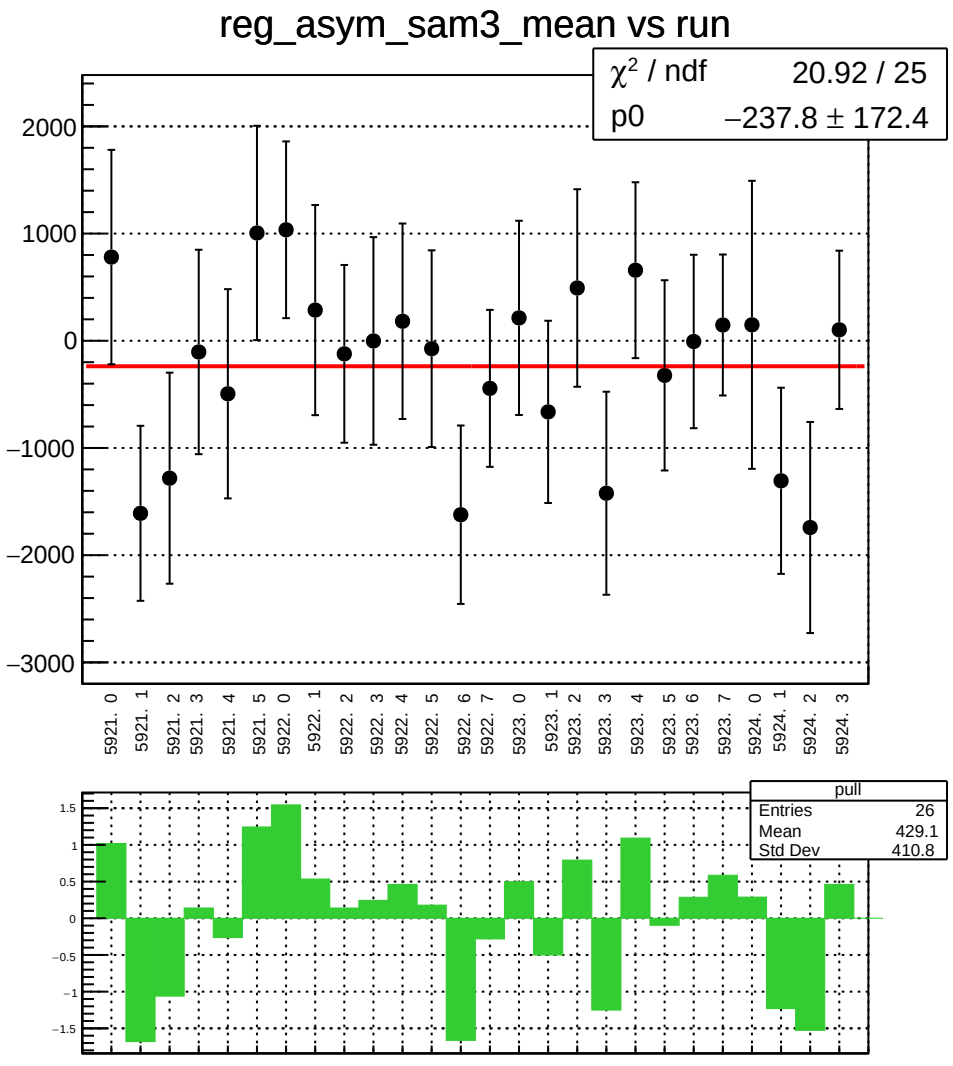

reg_asym_sam2_mean vs run
χ² / ndf 21.34 / 25
p0 406.1 ± 558.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 45.24
Std Dev 14.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

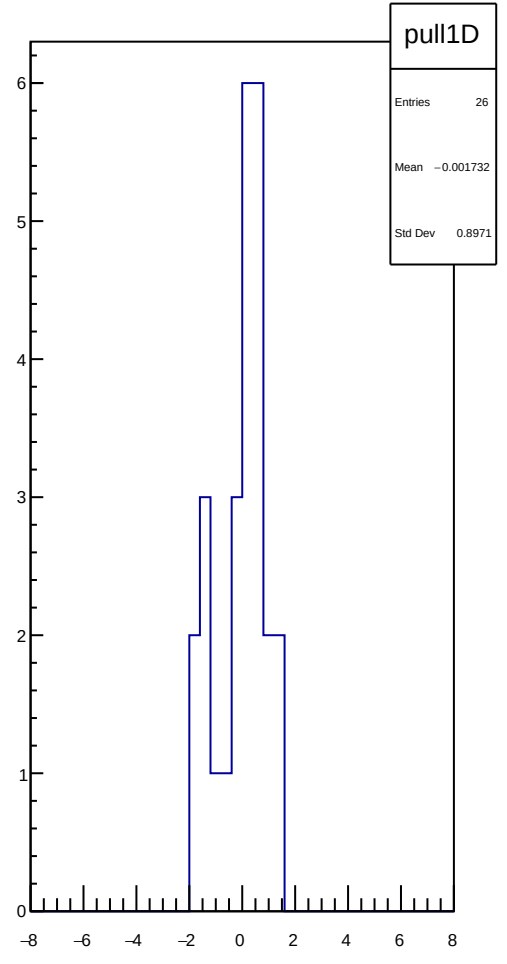

pull1D
Entries 26
Mean −0.007759
Std Dev 0.906
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

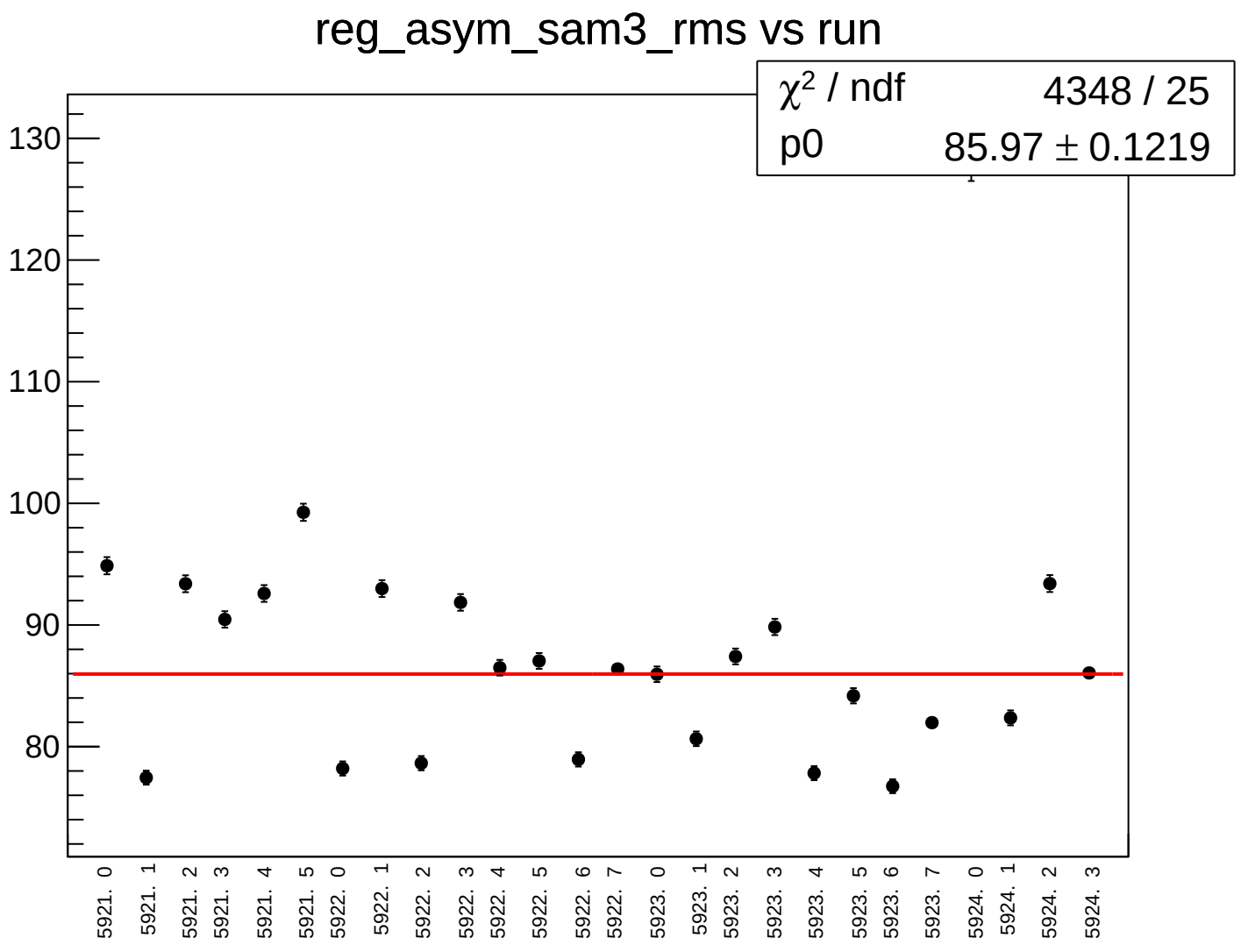

reg_asym_sam2_rms vs run
χ² / ndf 373.3 / 25
p0 279.8 ± 0.3951
320
310
300
290
280
270
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

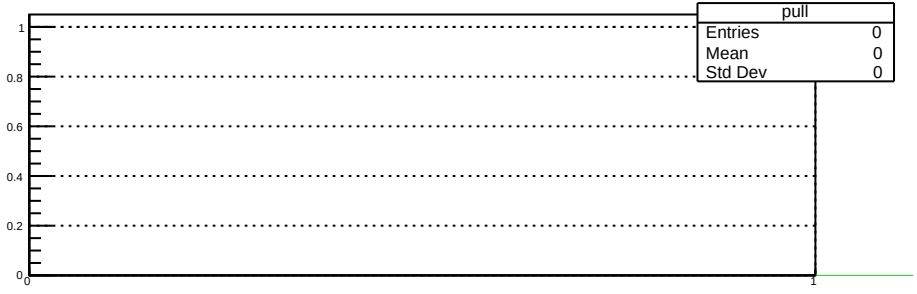

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

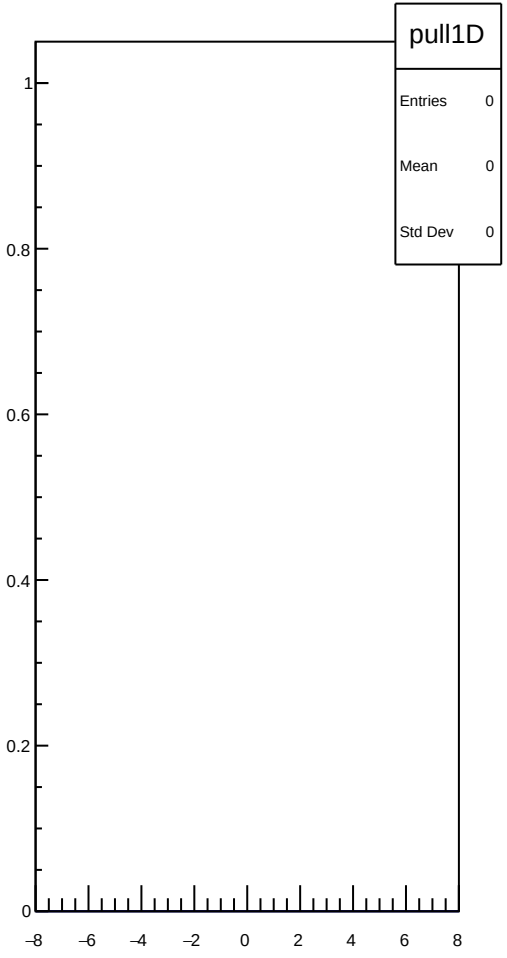

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

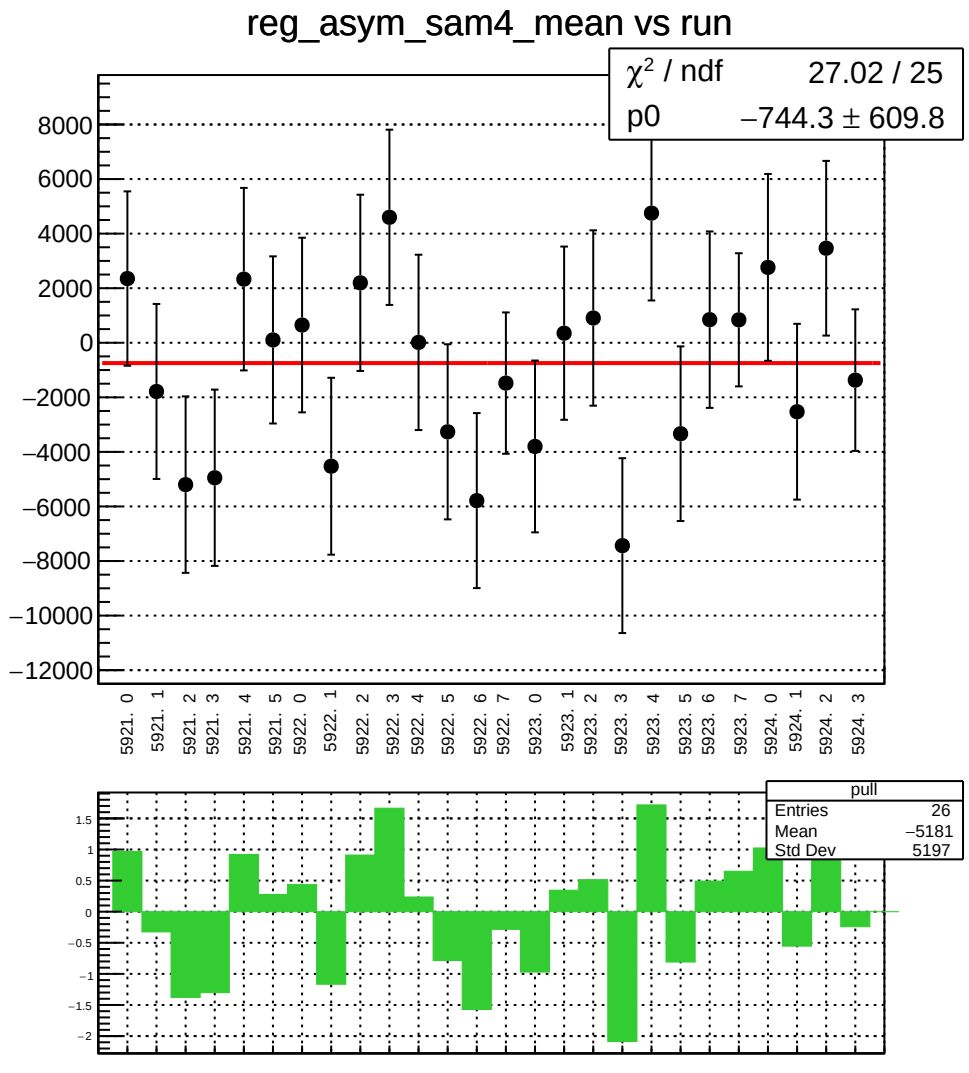

reg_asym_sam3_mean vs run
χ² / ndf 20.92 / 25
p0 −237.8 ± 172.4
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 429.1
Std Dev 410.8
1.5
1
0.5
0
−0.5
−1
−1.5

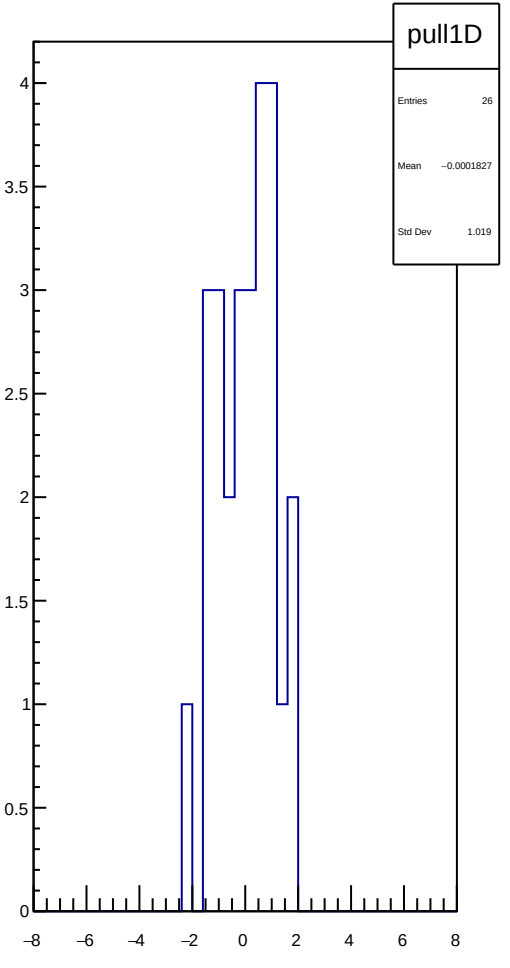

pull1D
Entries 26
Mean −0.001732
Std Dev 0.8971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

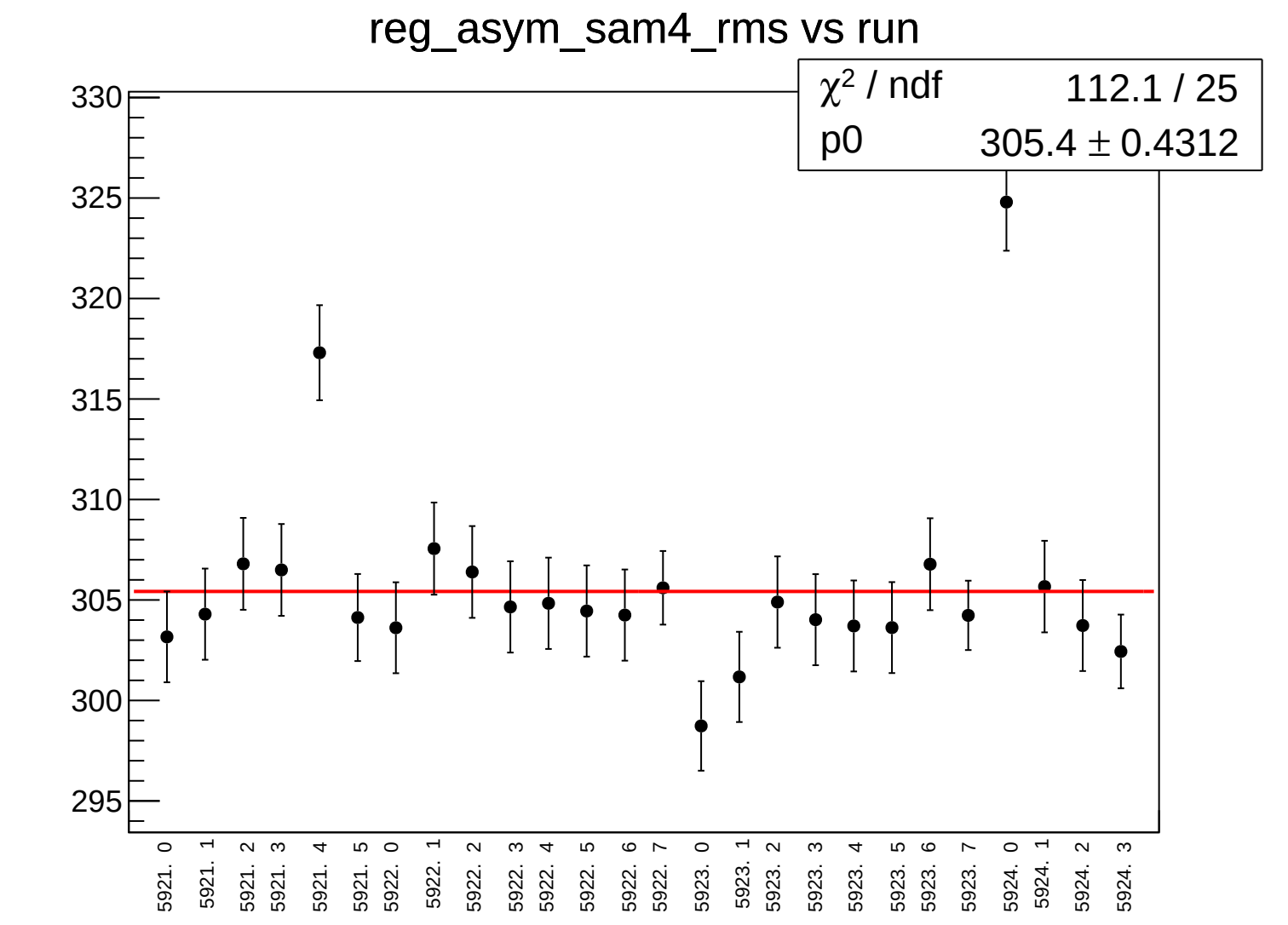

reg_asym_sam3_rms vs run
χ² / ndf 4348 / 25
p0 85.97 ± 0.1219
130
120
110
100
90
80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

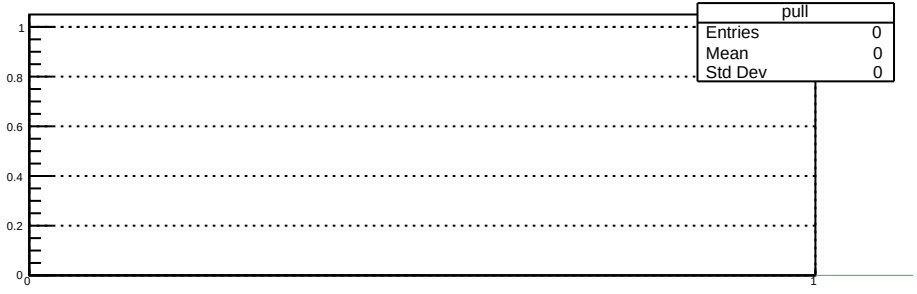

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

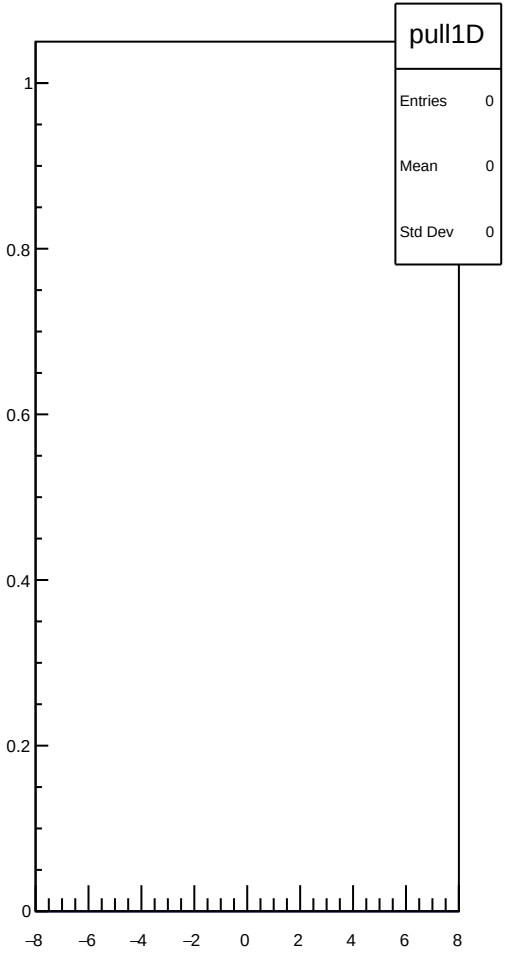

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

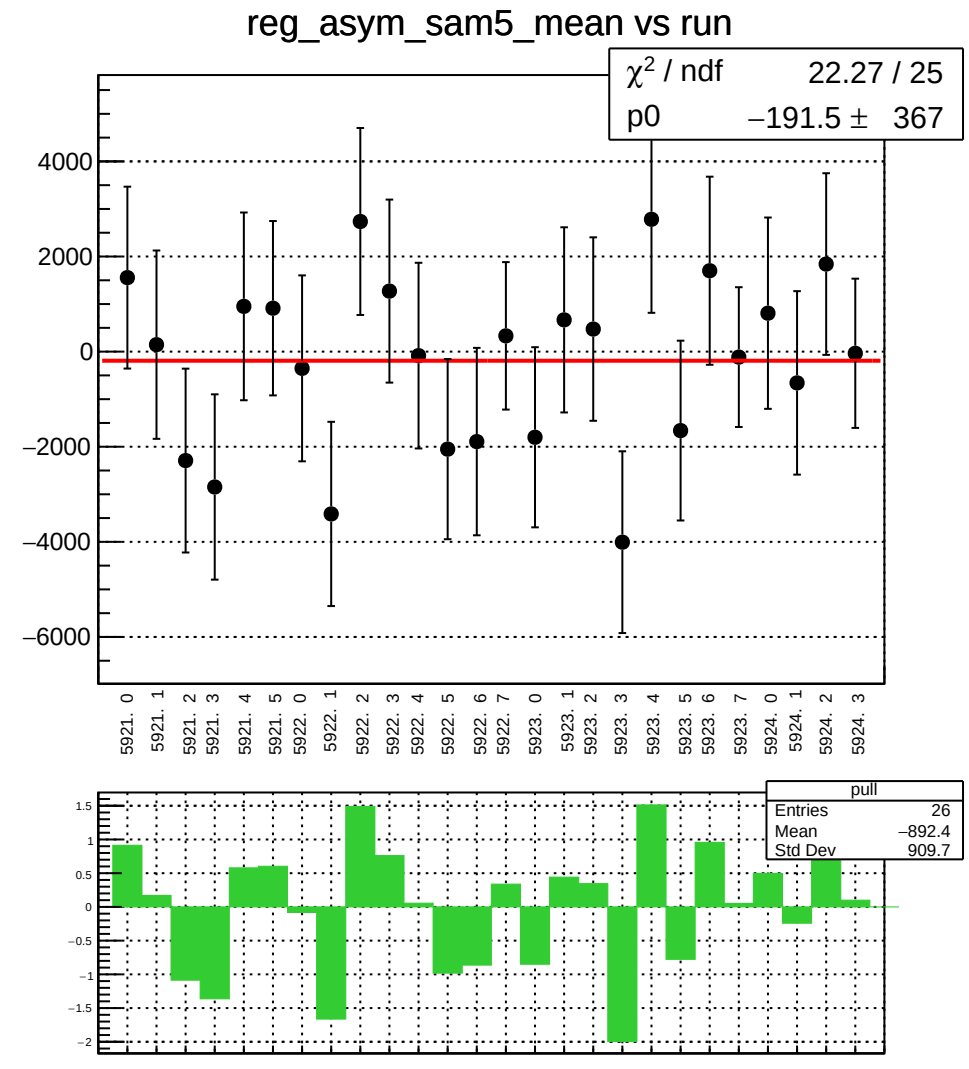

reg_asym_sam4_mean vs run
χ² / ndf 27.02 / 25
p0 −744.3 ± 609.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −5181
Std Dev 5197
1.5
1
0.5
0
−0.5
−1
−1.5
−2

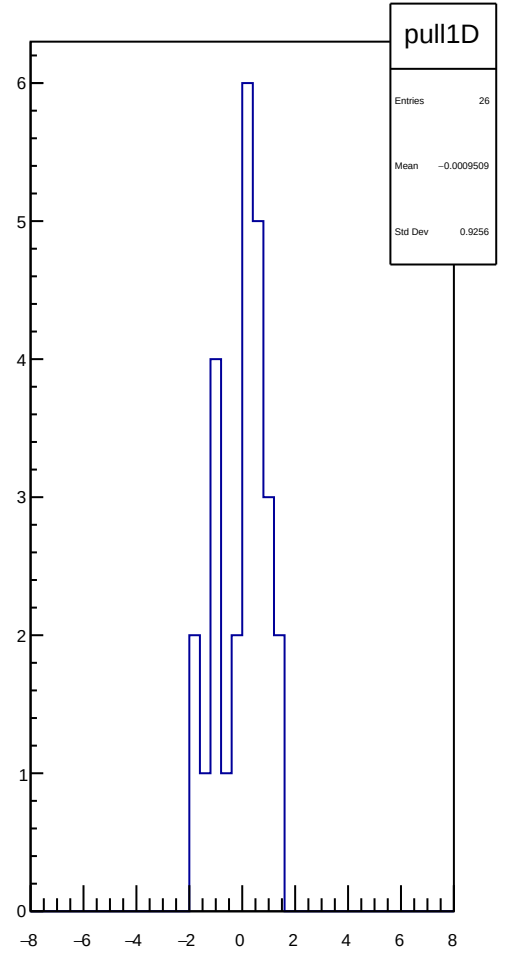

pull1D
Entries 26
Mean −0.0001827
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

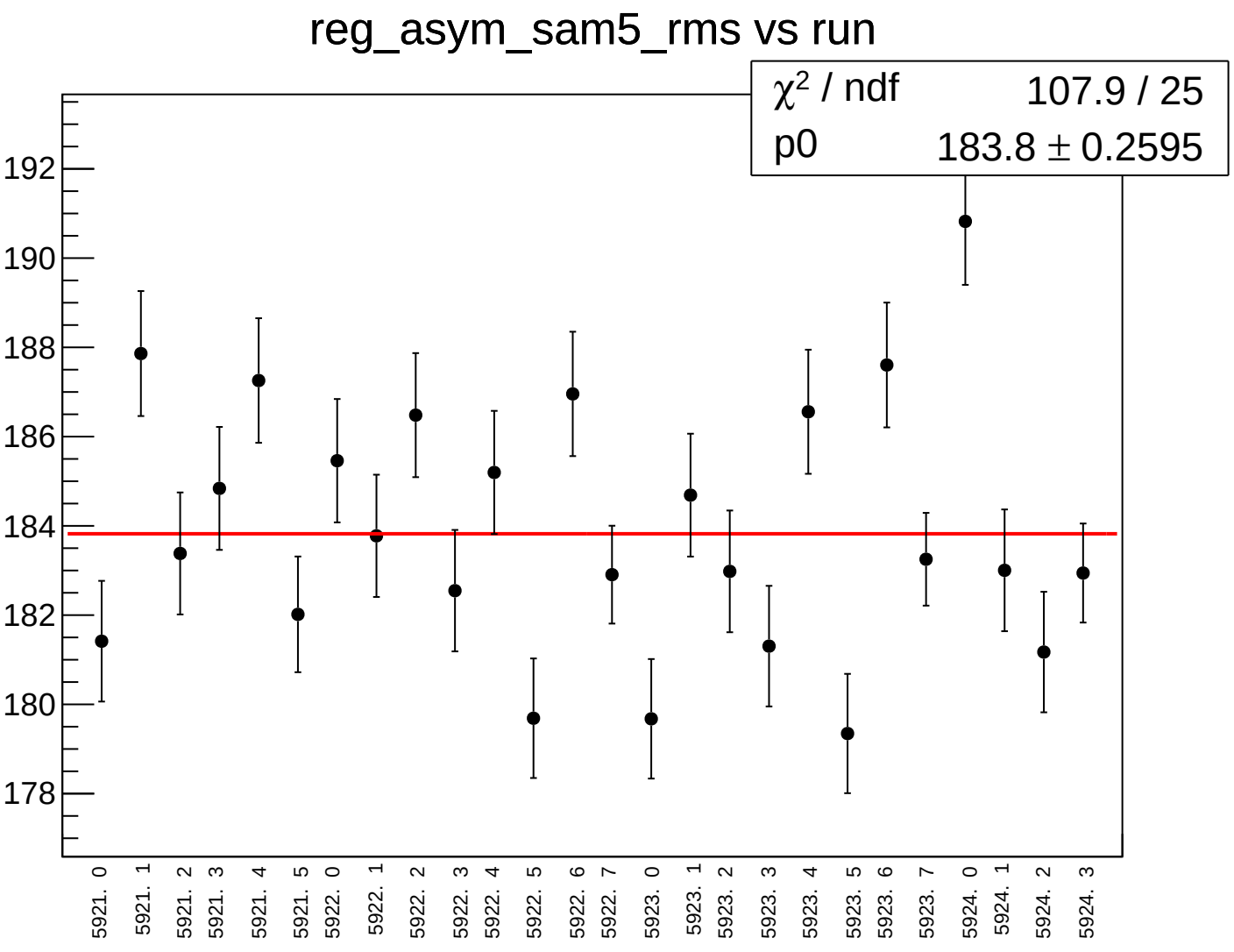

reg_asym_sam4_rms vs run
χ² / ndf 112.1 / 25
p0 305.4 ± 0.4312
330
325
320
315
310
305
300
295
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

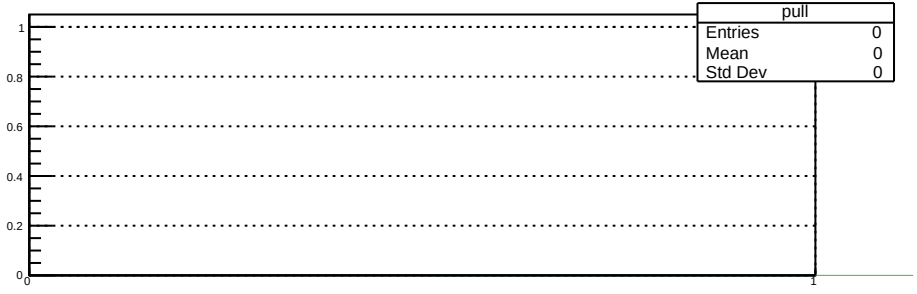

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

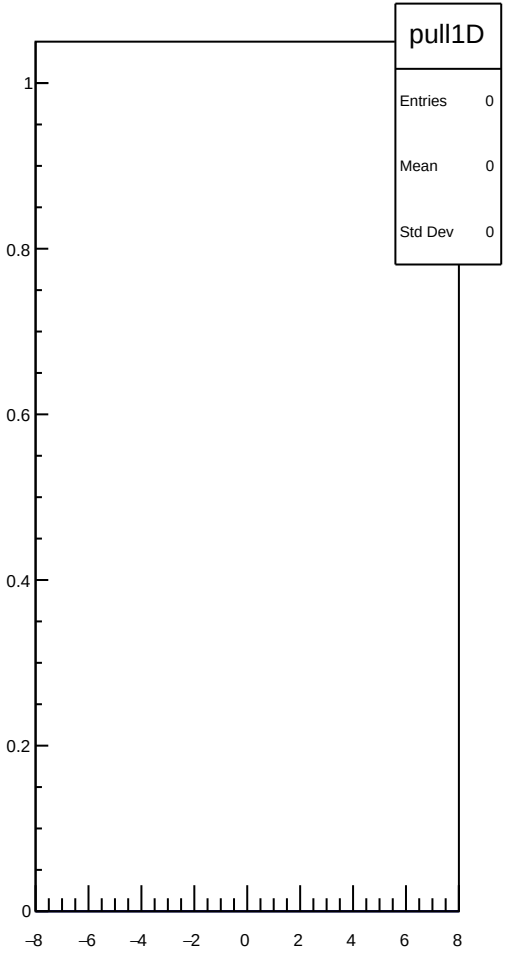

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

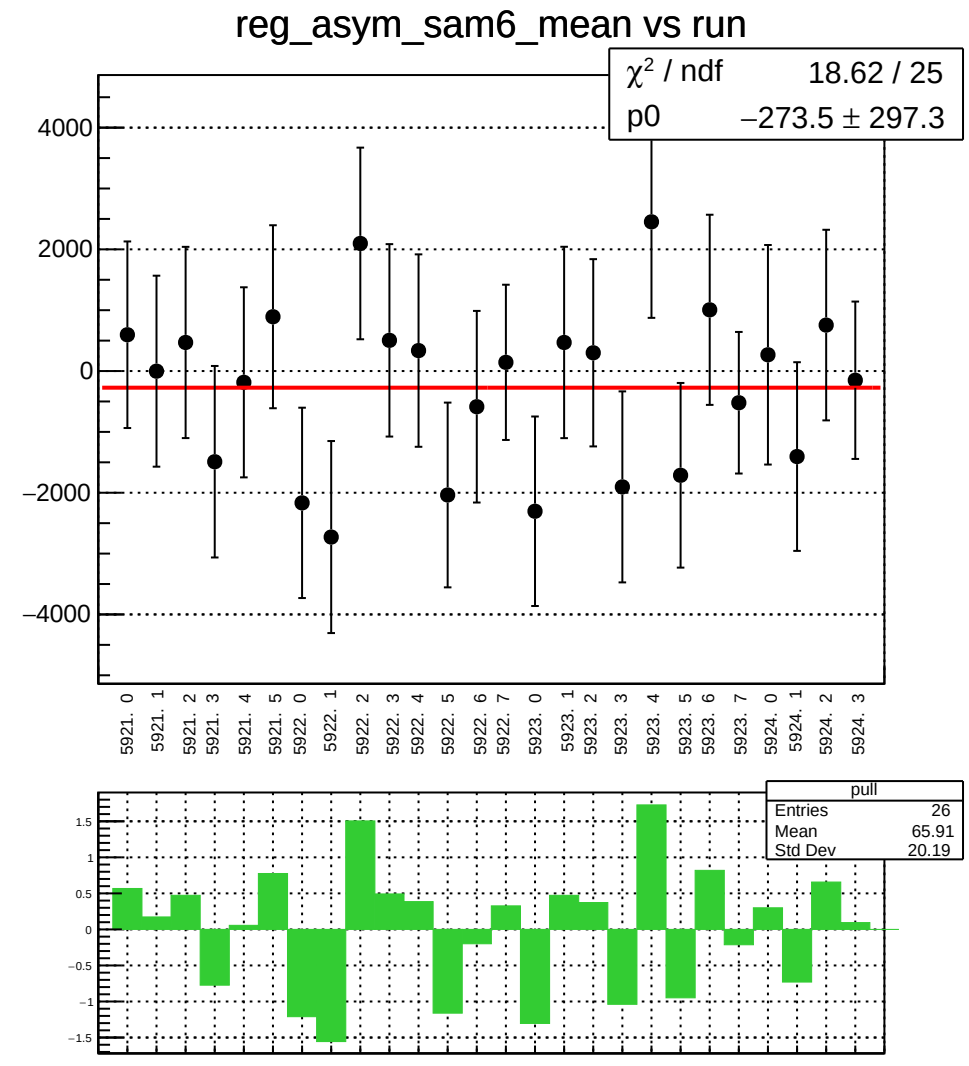

reg_asym_sam5_mean vs run
χ² / ndf 22.27 / 25
p0 −191.5 ± 367
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −892.4
Std Dev 909.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

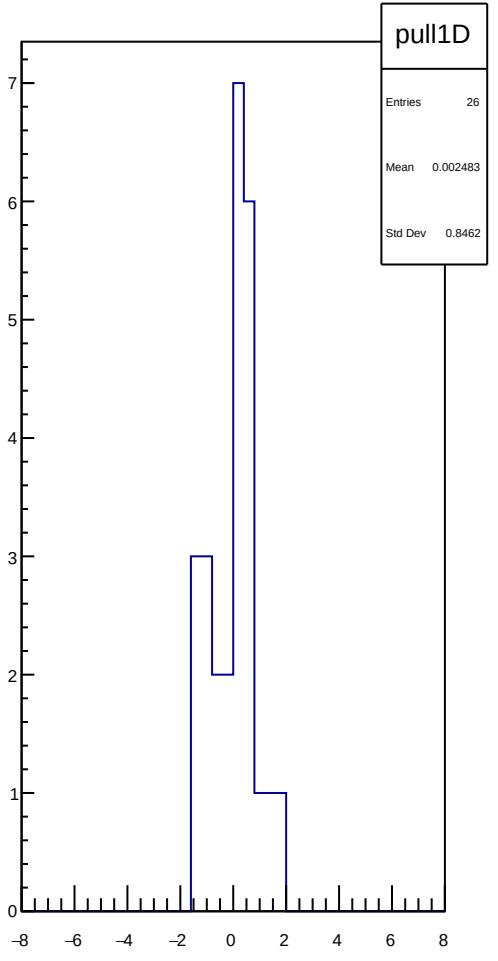

pull1D
Entries 26
Mean −0.0009509
Std Dev 0.9256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

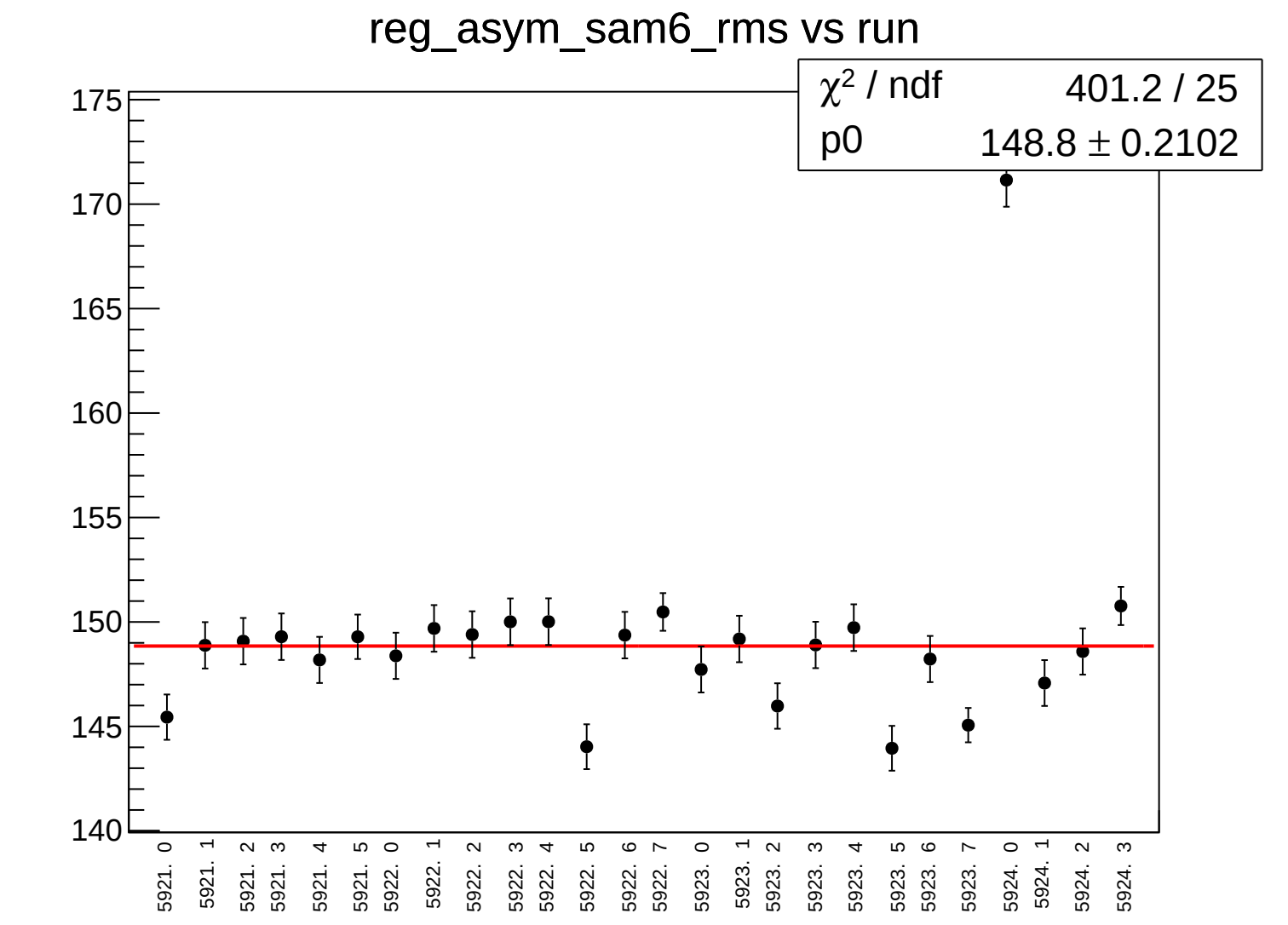

reg_asym_sam5_rms vs run
χ² / ndf 107.9 / 25
p0 183.8 ± 0.2595
192
190
188
186
184
182
180
178
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

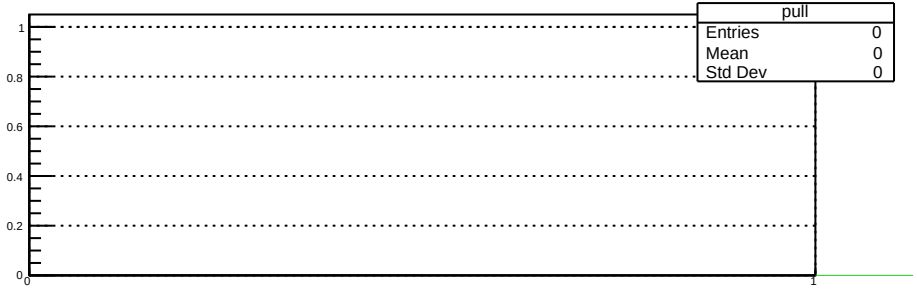

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

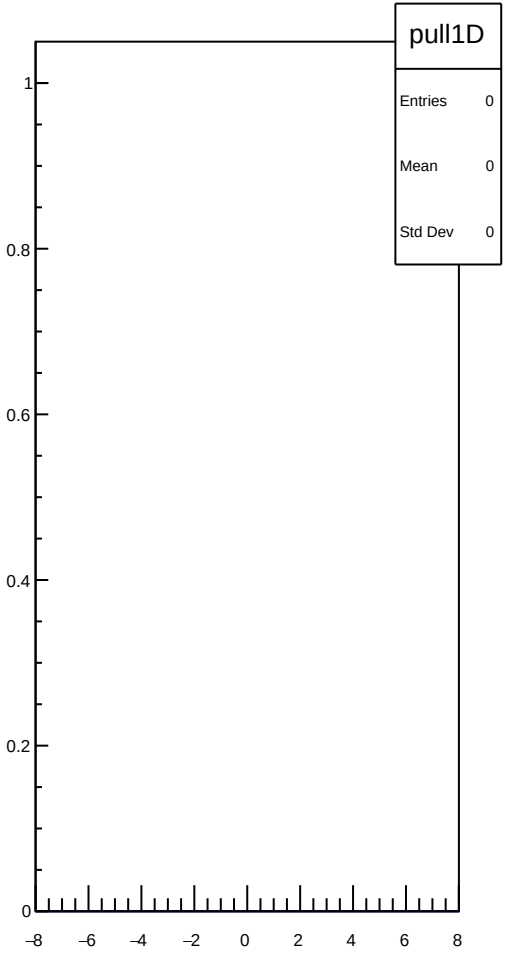

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

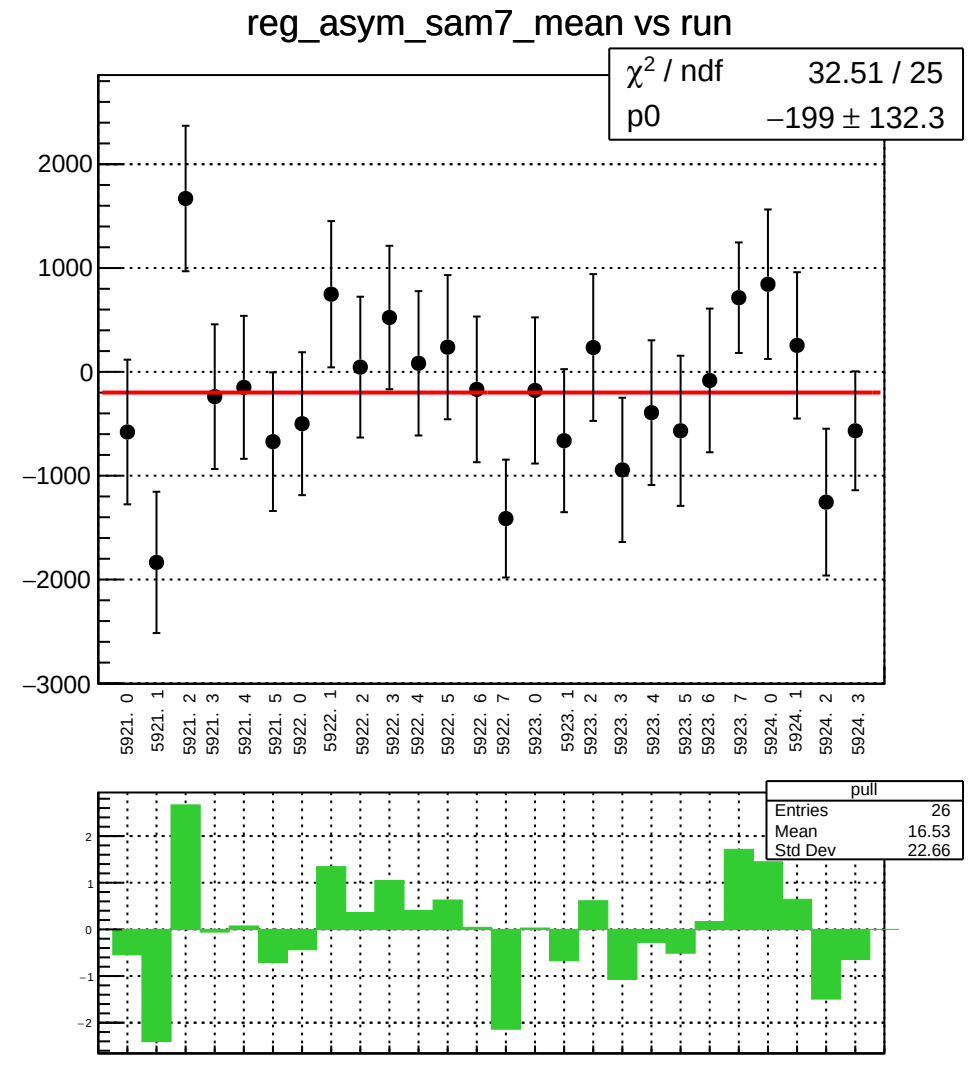

reg_asym_sam6_mean vs run
χ² / ndf 18.62 / 25
p0 −273.5 ± 297.3
4000
2000
0
−2000
−4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 65.91
Std Dev 20.19
1.5
1
0.5
0
−0.5
−1
−1.5

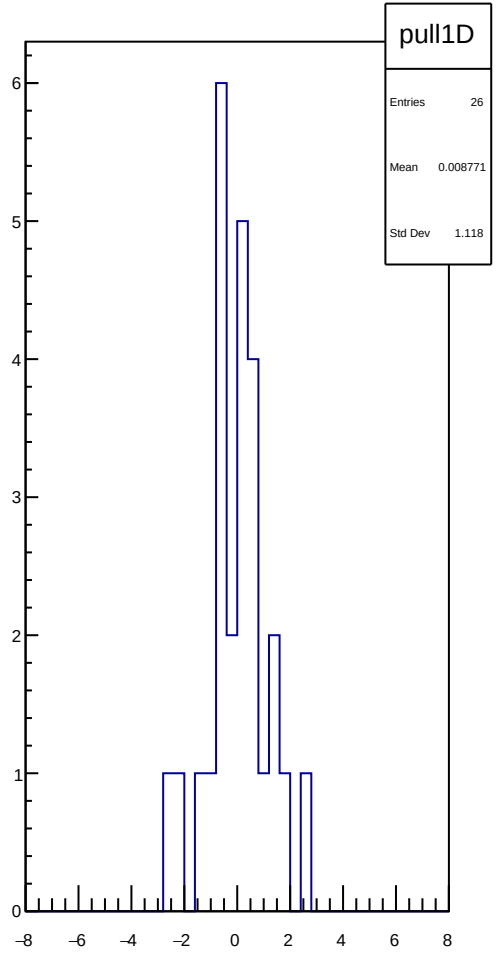

pull1D
Entries 26
Mean 0.002483
Std Dev 0.8462
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

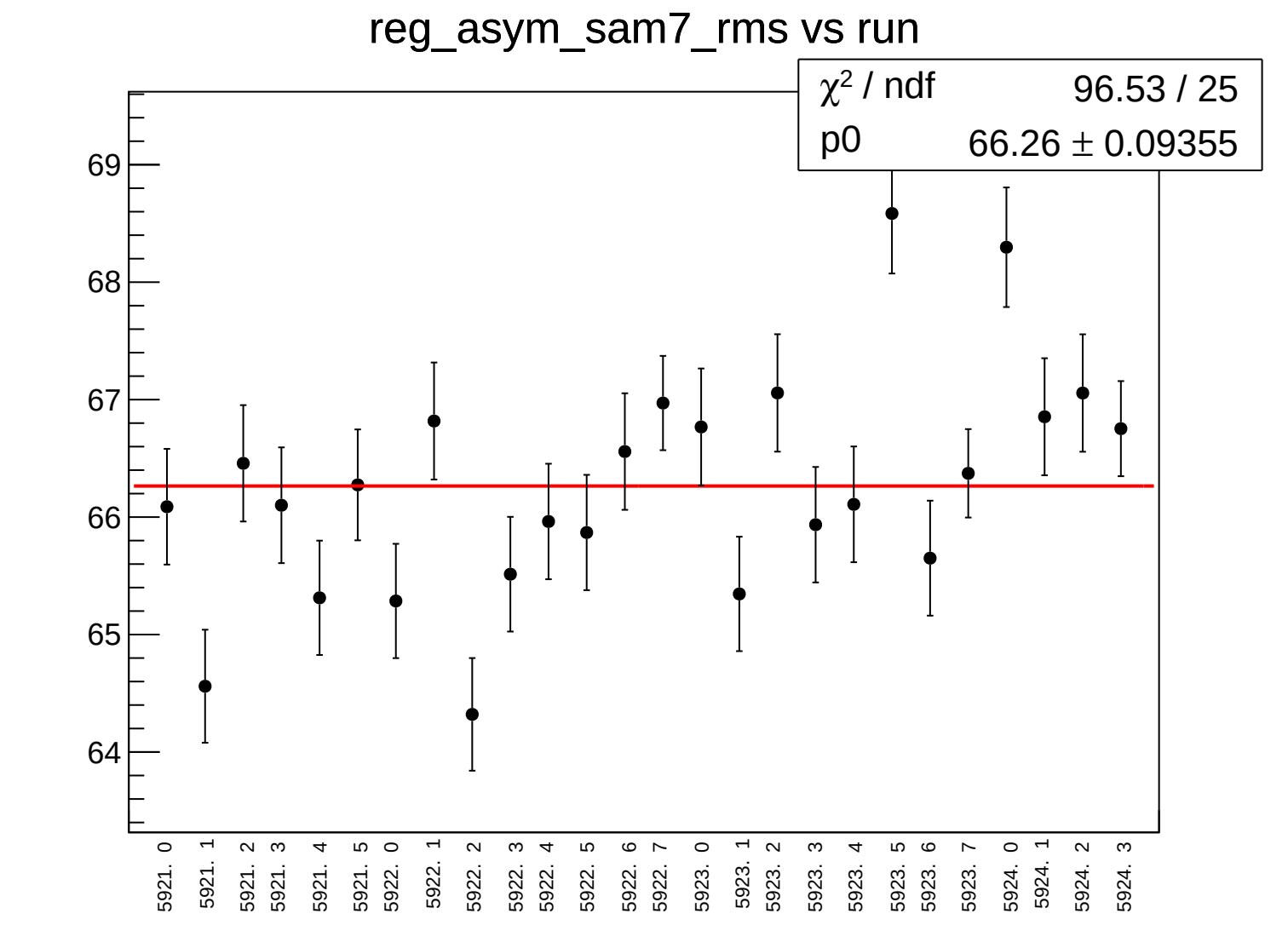

reg_asym_sam6_rms vs run
χ² / ndf 401.2 / 25
p0 148.8 ± 0.2102
175
170
165
160
155
150
145
140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

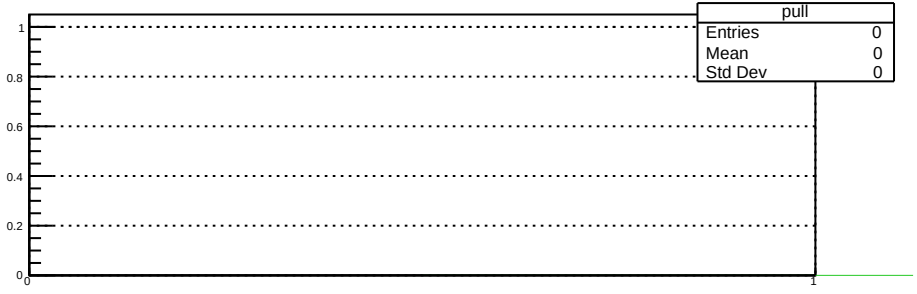

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

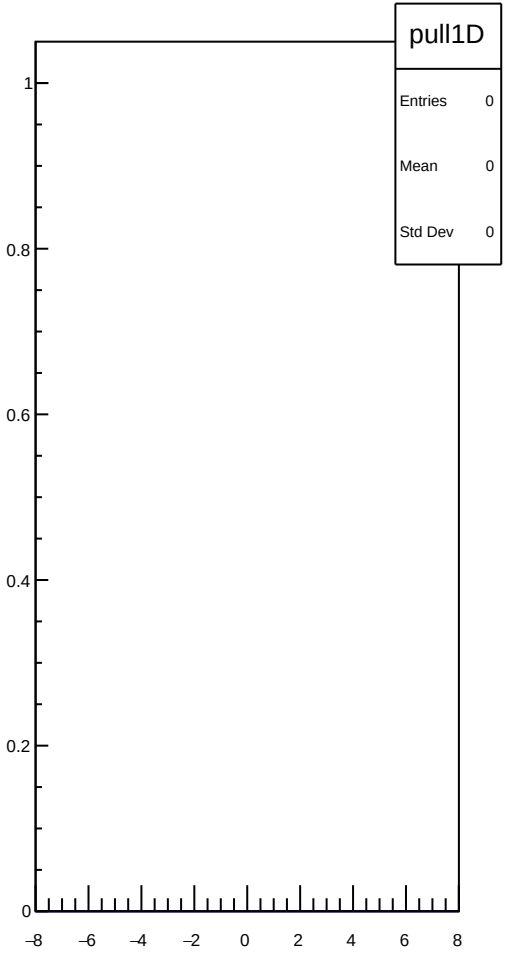

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

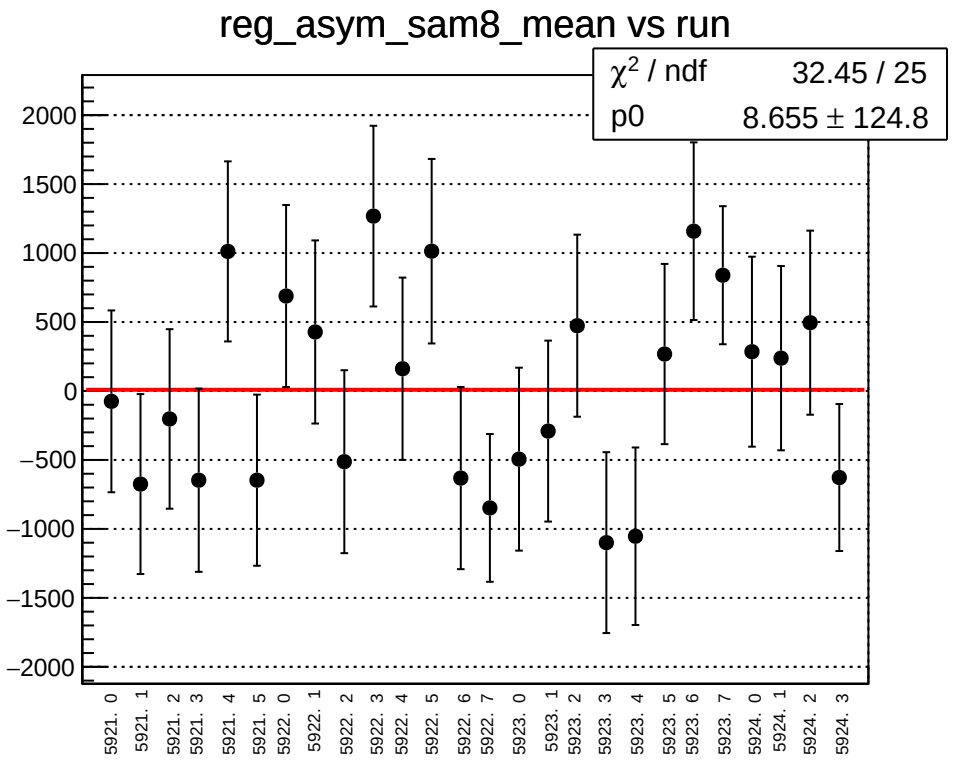

reg_asym_sam7_mean vs run
χ² / ndf 32.51 / 25
p0 −199 ± 132.3
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 16.53
Std Dev 22.66
2
1
0
−1
−2

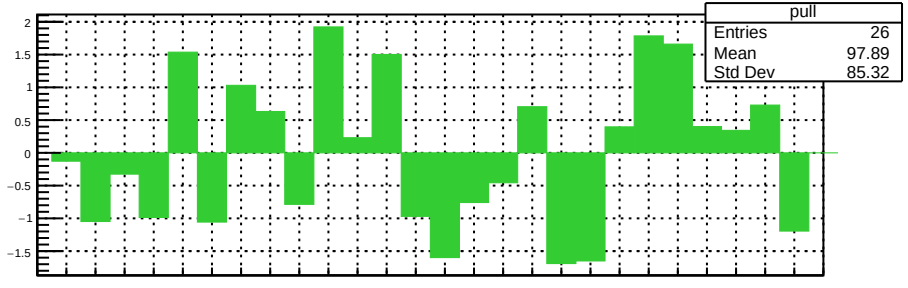

pull1D
Entries 26
Mean 0.008771
Std Dev 1.118
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

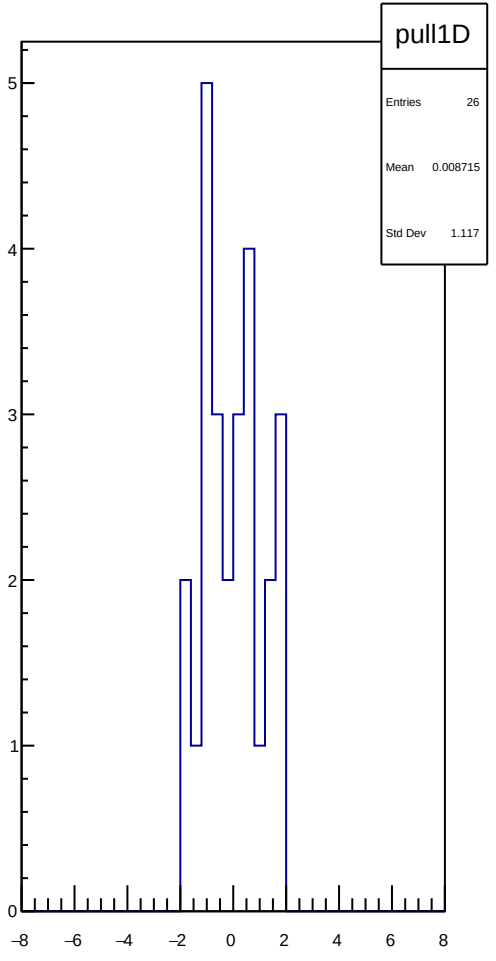

reg_asym_sam7_rms vs run
χ² / ndf 96.53 / 25
p0 66.26 ± 0.09355
69
68
67
66
65
64
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

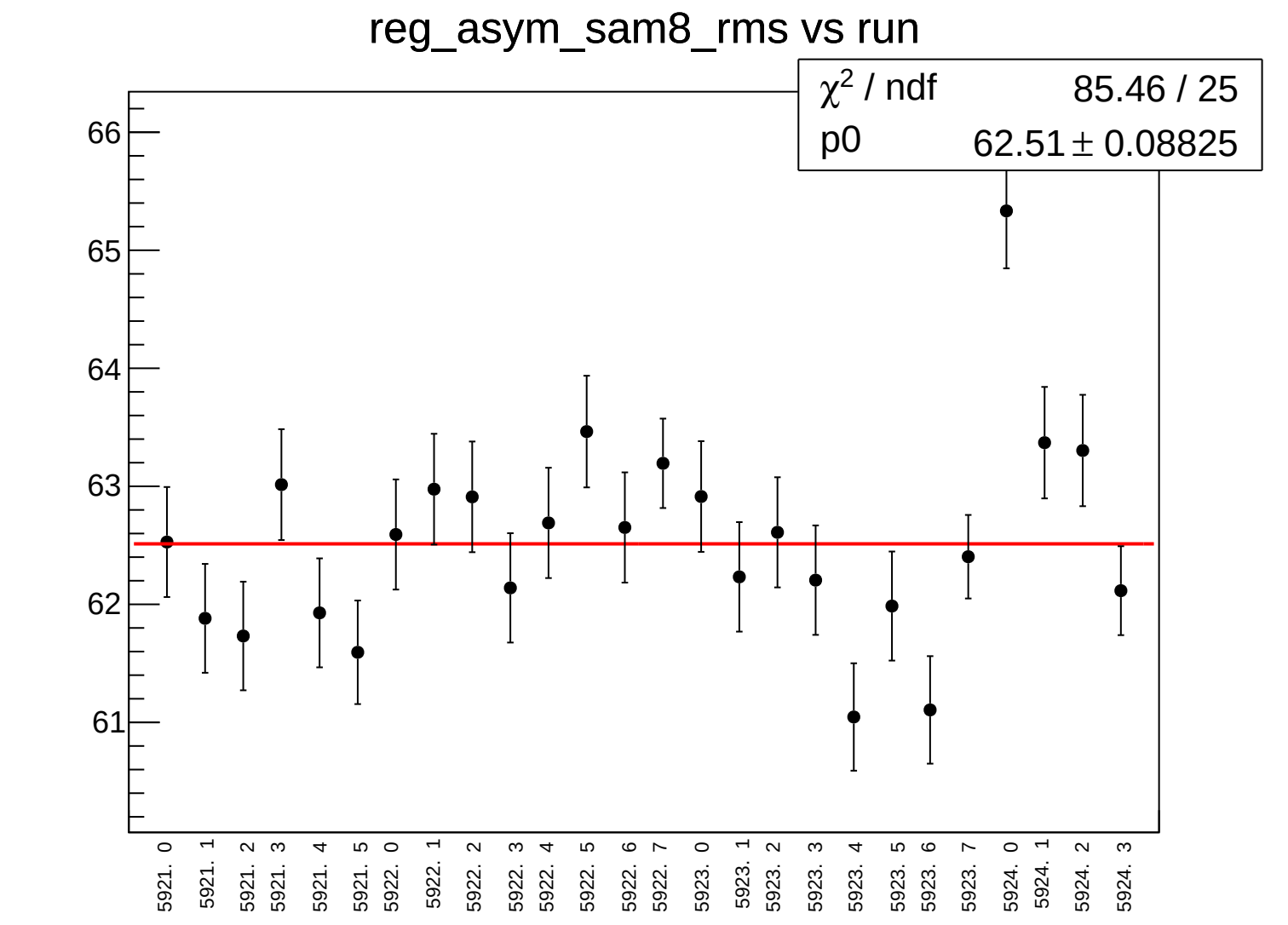

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

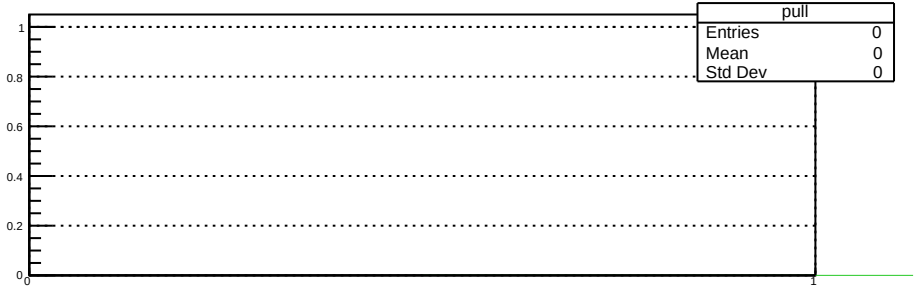

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

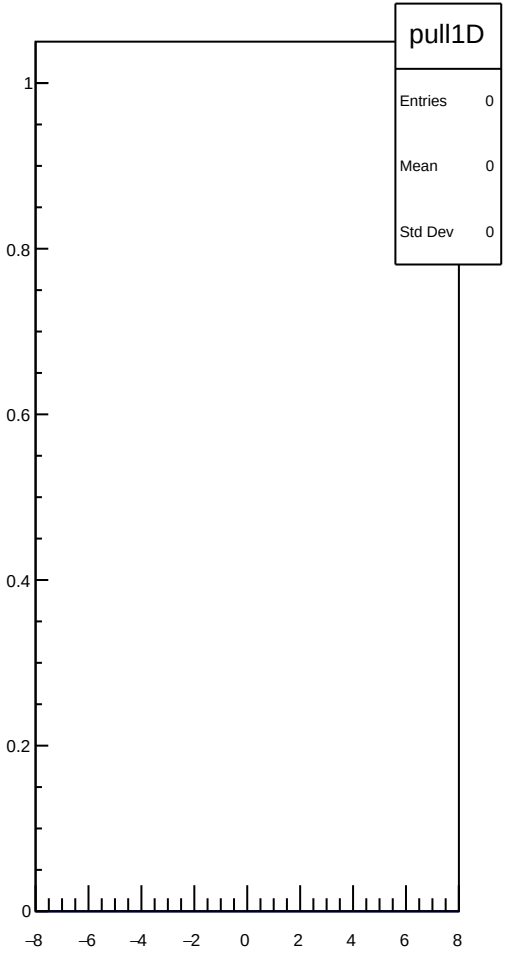

reg_asym_sam8_mean vs run
χ² / ndf 32.45 / 25
p0 8.655 ± 124.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

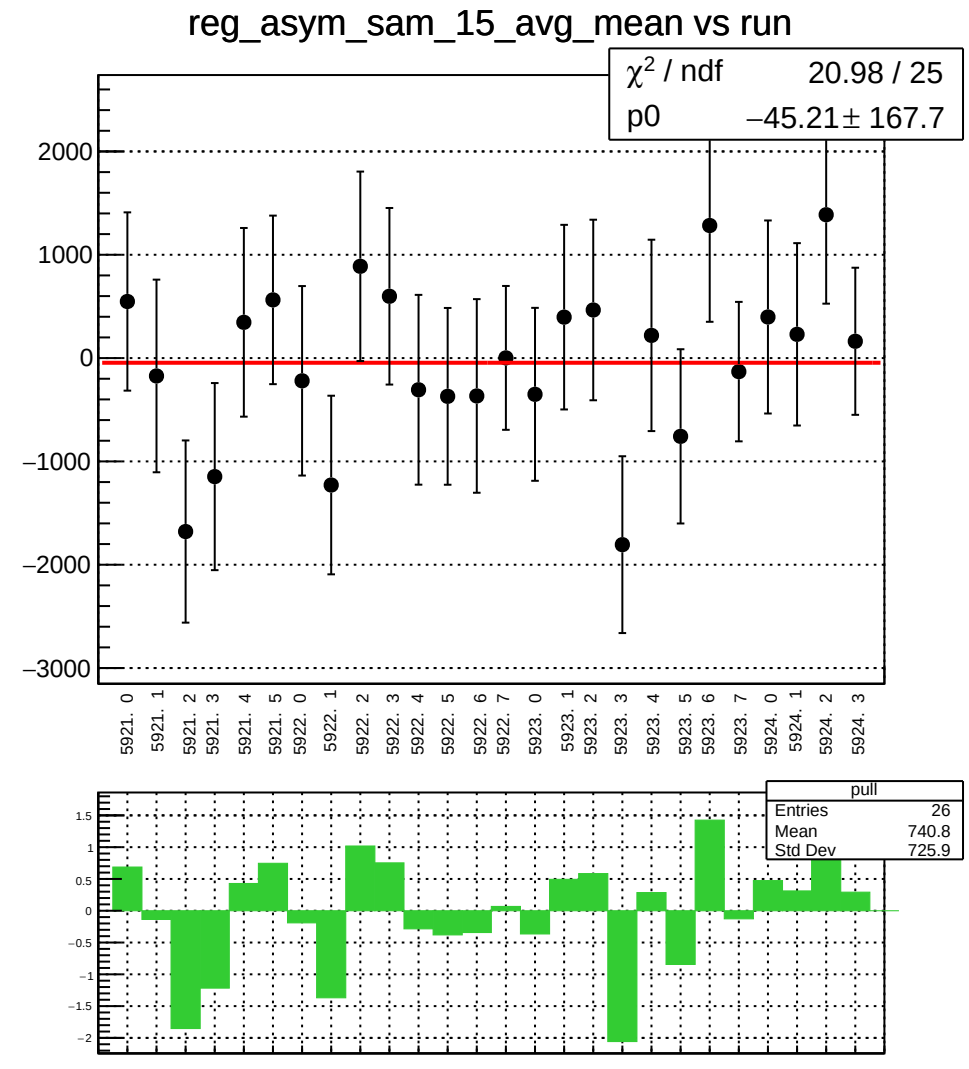

pull
Entries 26
Mean 97.89
Std Dev 85.32
2
1.5
1
0.5
0
−0.5
−1
−1.5

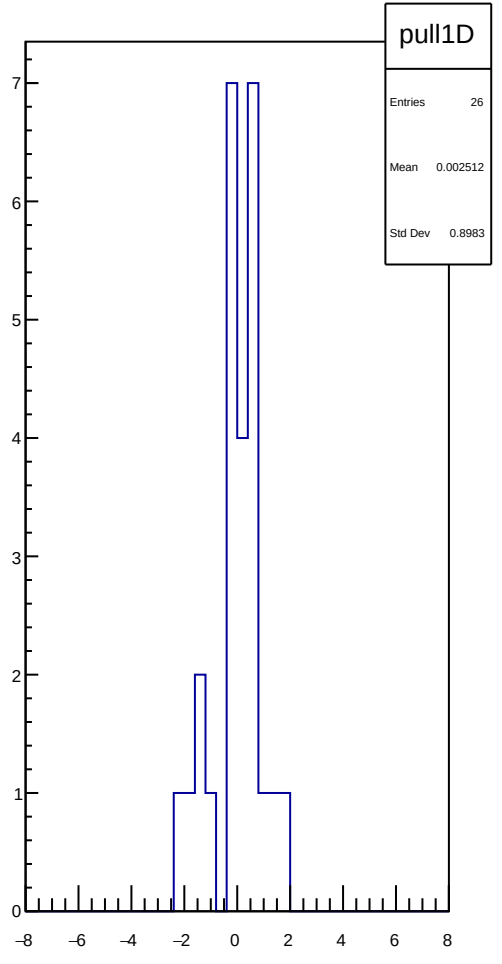

pull1D
Entries 26
Mean 0.008715
Std Dev 1.117
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

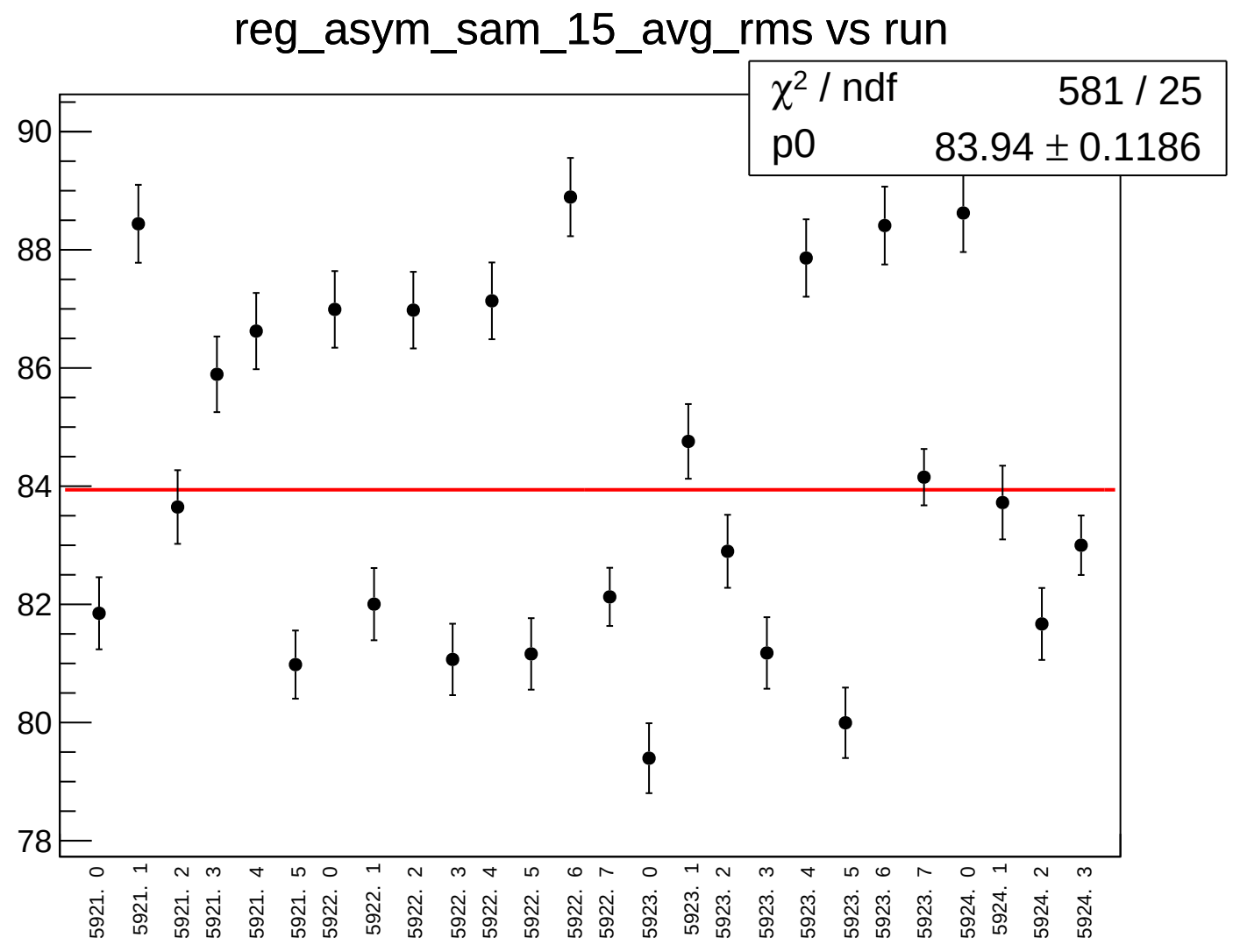

reg_asym_sam8_rms vs run
χ² / ndf 85.46 / 25
p0 62.51 ± 0.08825
66
65
64
63
62
61
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

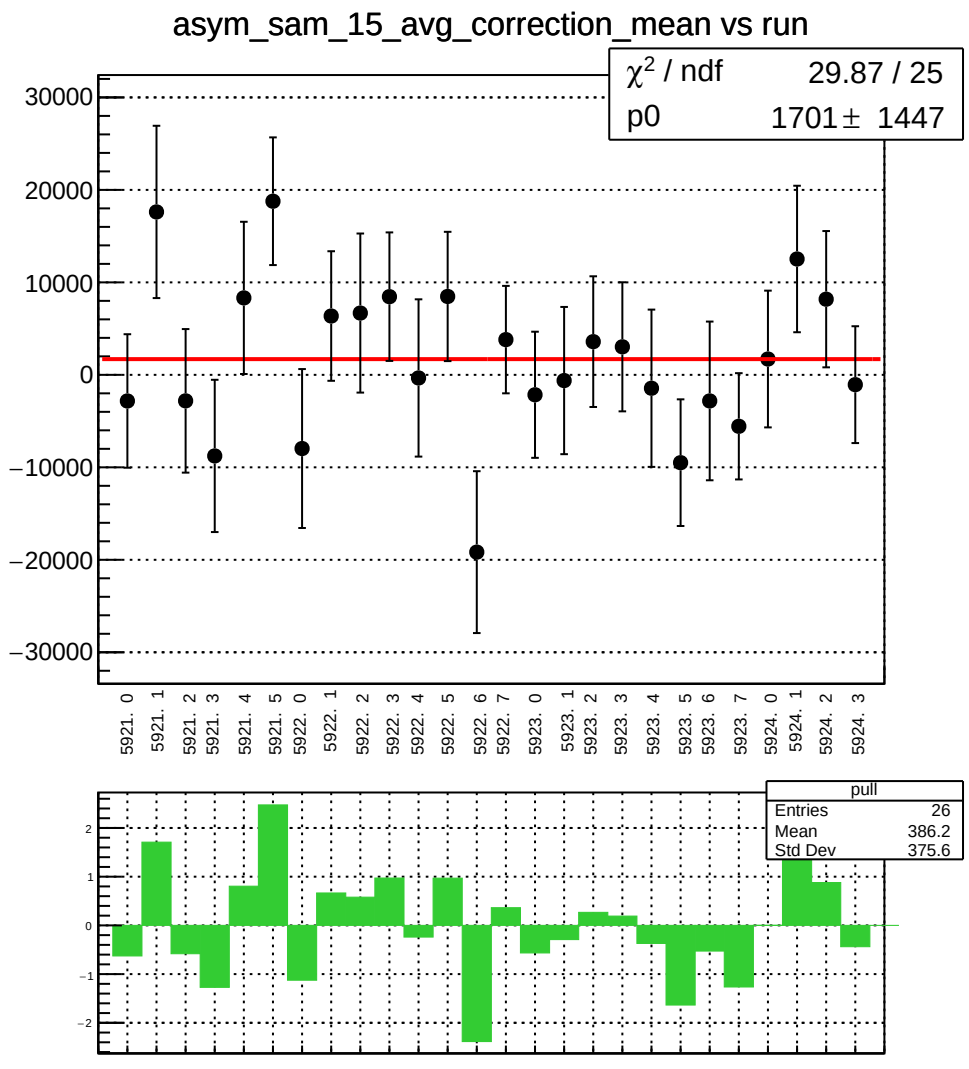

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

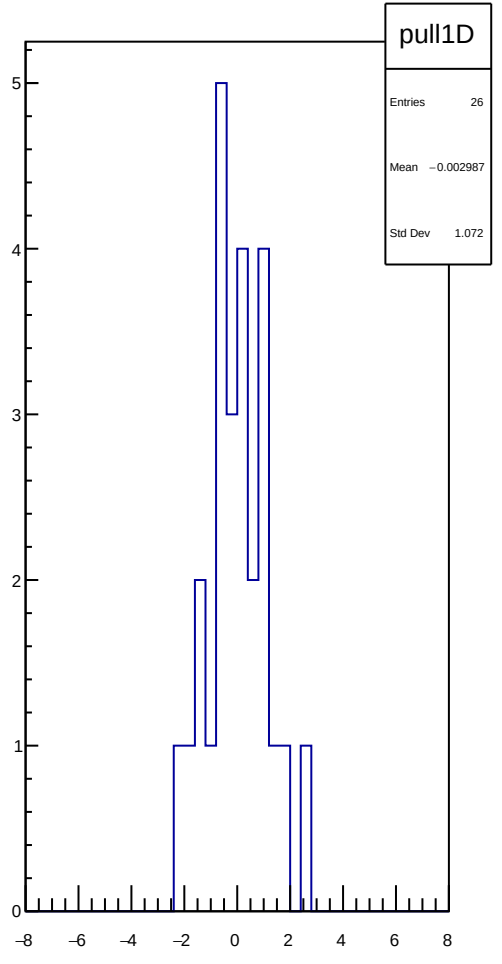

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

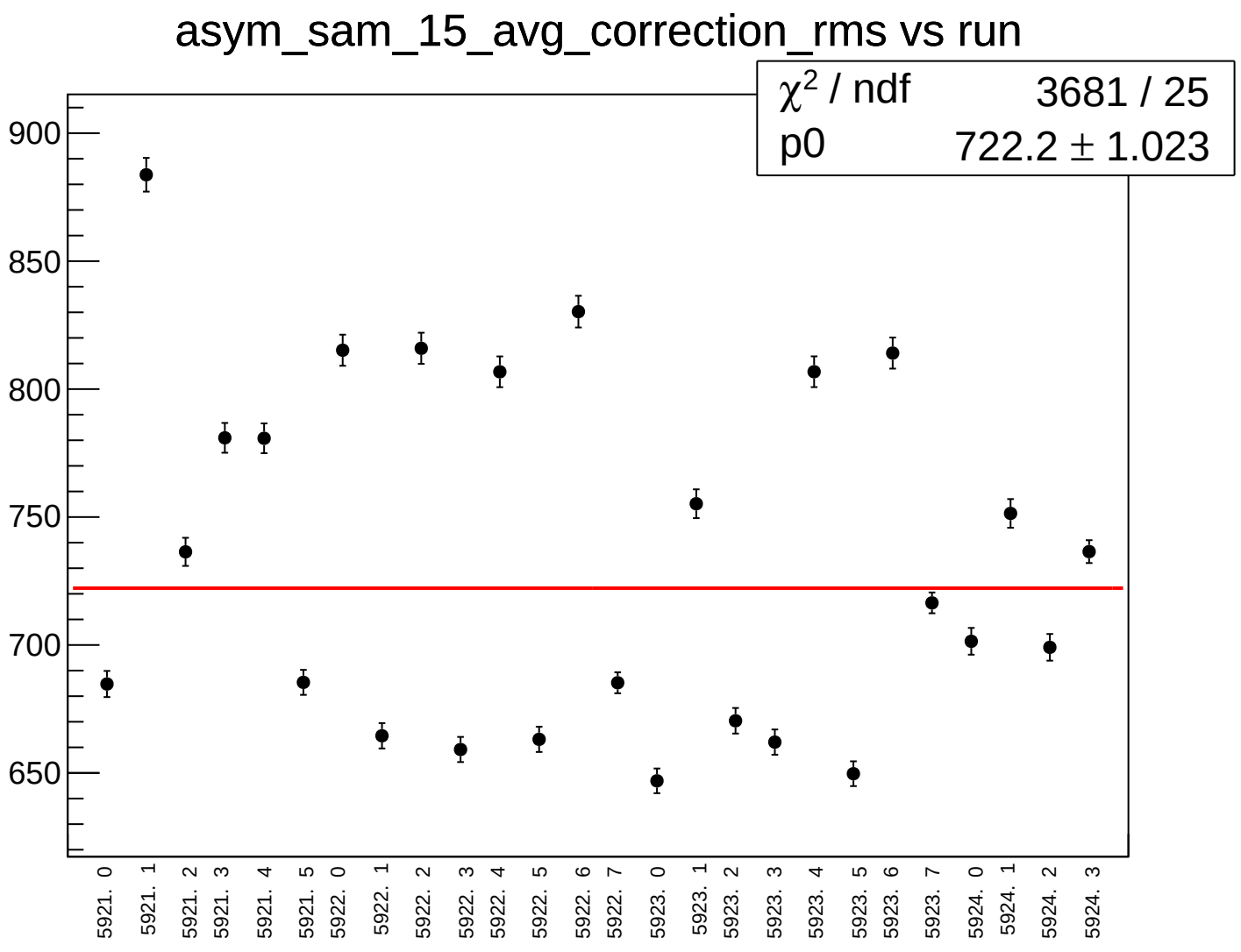

reg_asym_sam_15_avg_mean vs run
χ² / ndf 20.98 / 25
p0 −45.21 ± 167.7
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 740.8
Std Dev 725.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

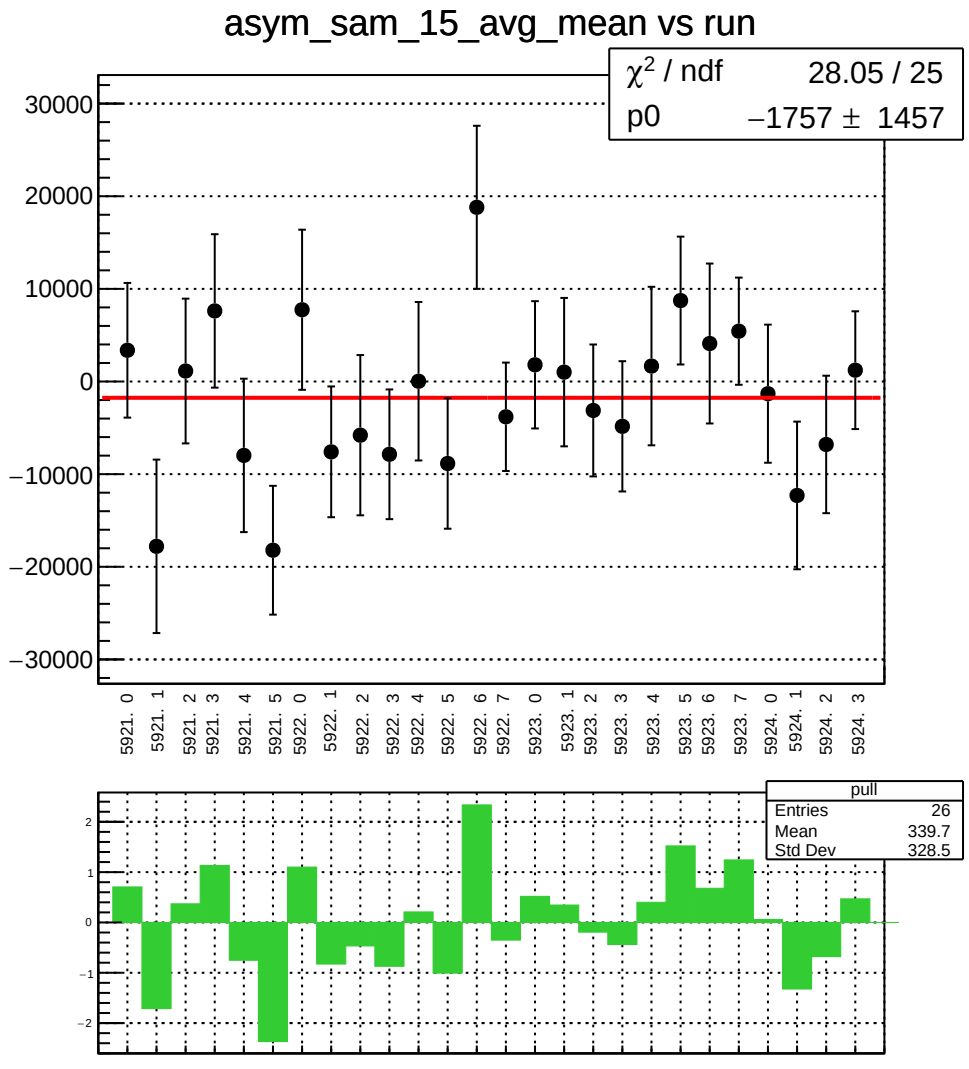

pull1D
Entries 26
Mean 0.002512
Std Dev 0.8983
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

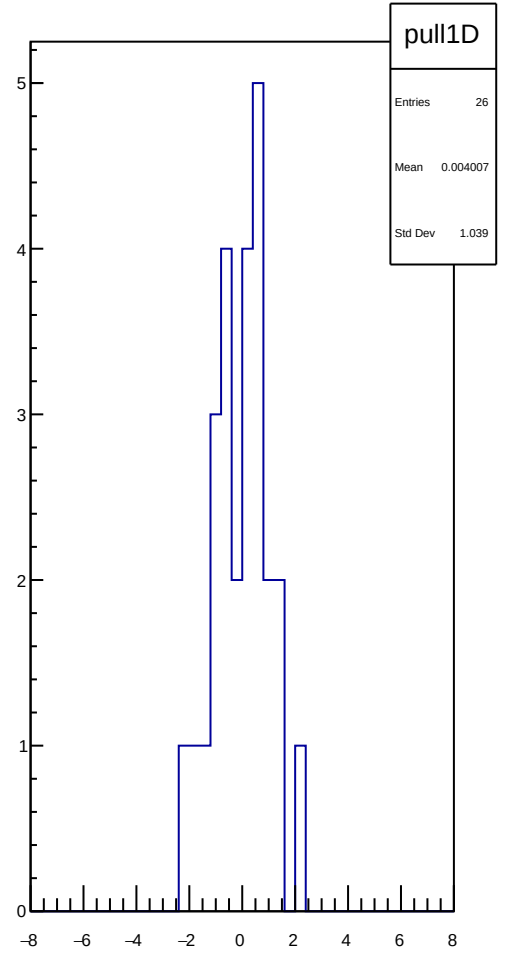

reg_asym_sam_15_avg_rms vs run
χ² / ndf 581 / 25
p0 83.94 ± 0.1186
90
88
86
84
82
80
78
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

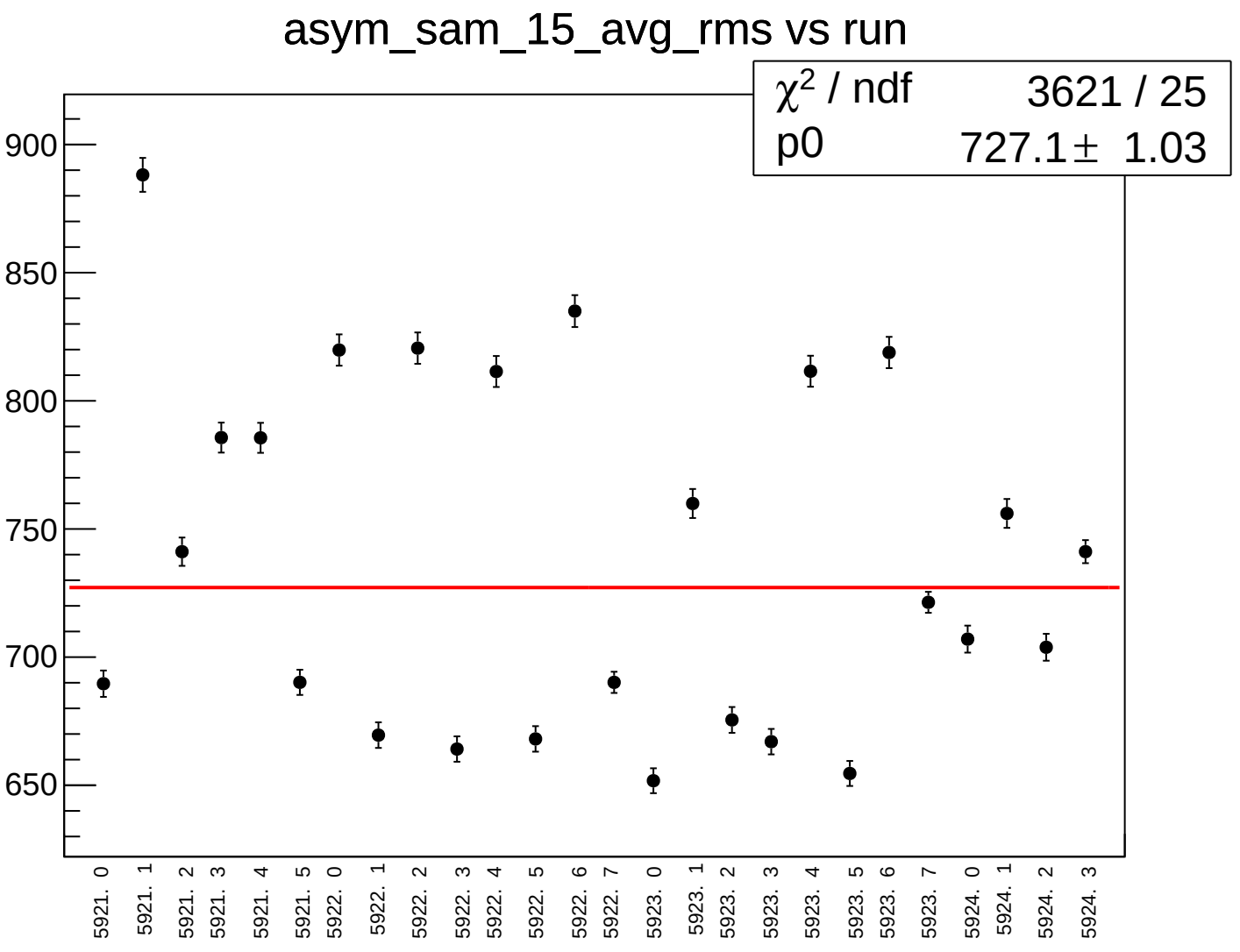

asym_sam_15_avg_correction_mean vs run
χ² / ndf 29.87 / 25
p0 1701 ± 1447
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 386.2
Std Dev 375.6
2
1
0
−1
−2

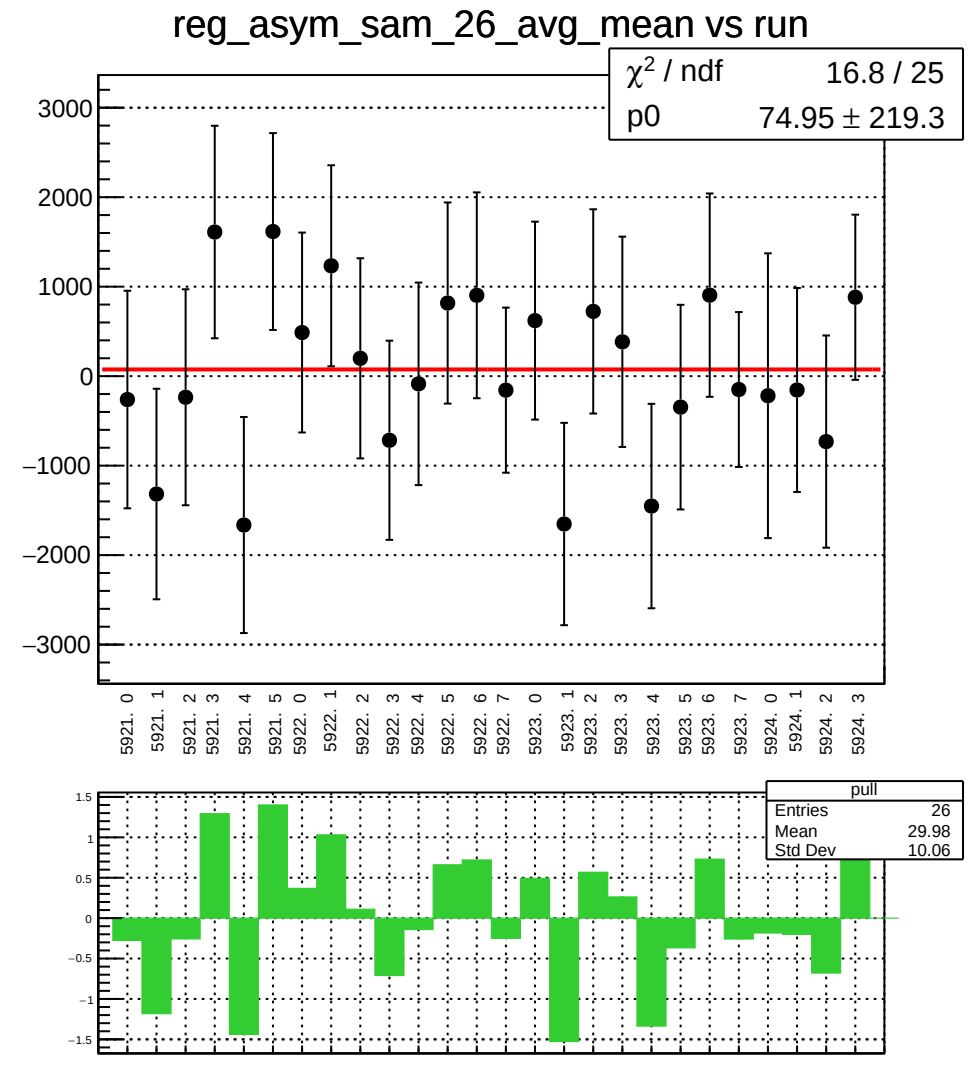

pull1D
Entries 26
Mean −0.002987
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

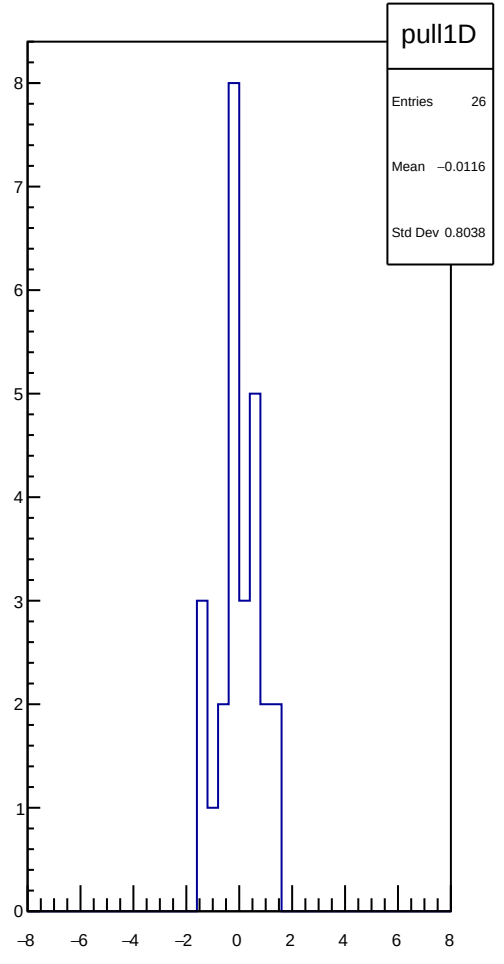

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3681 / 25
p0 722.2 ± 1.023
900
850
800
750
700
650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

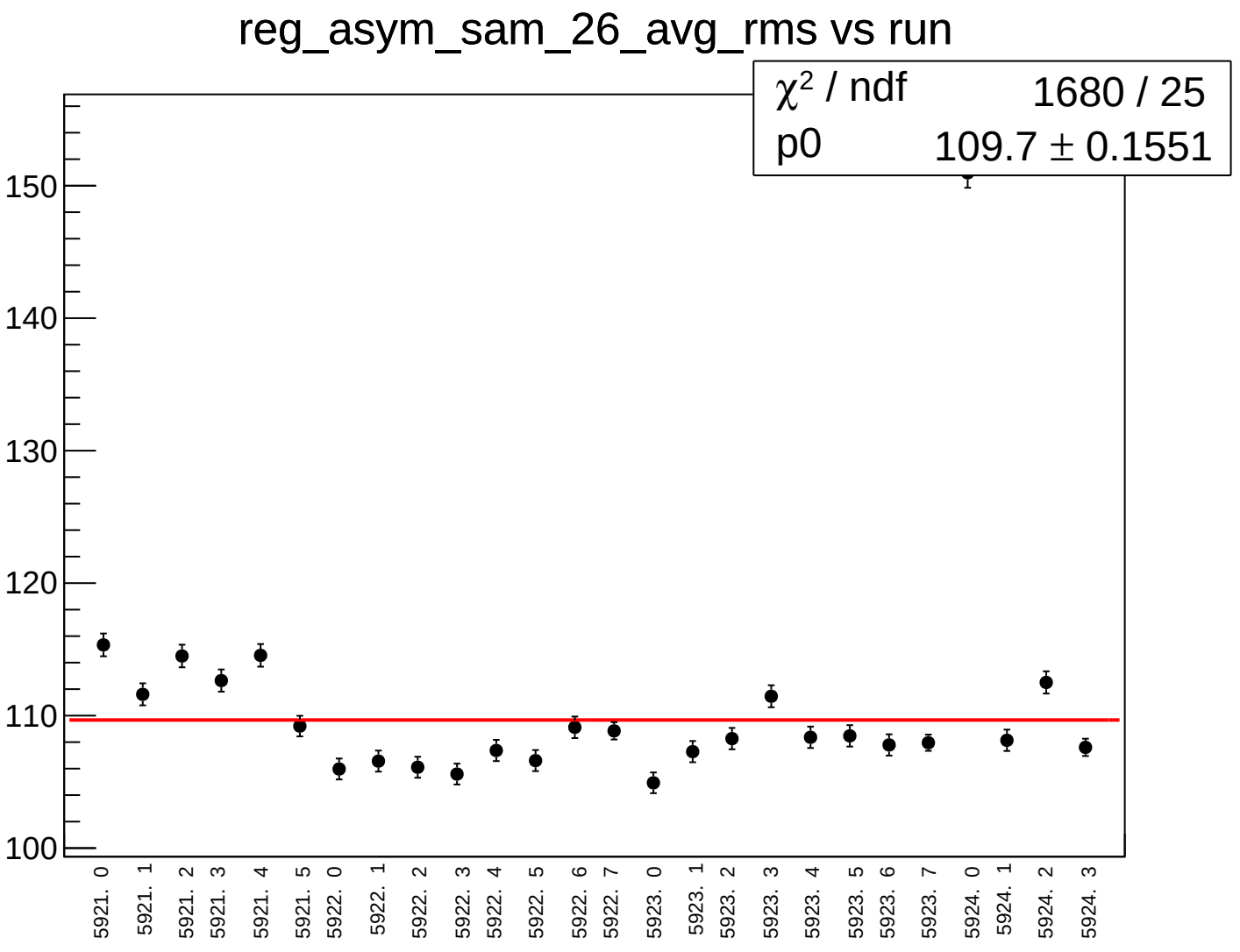

asym_sam_15_avg_mean vs run
χ² / ndf 28.05 / 25
p0 −1757 ± 1457
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 339.7
Std Dev 328.5
2
1
0
−1
−2

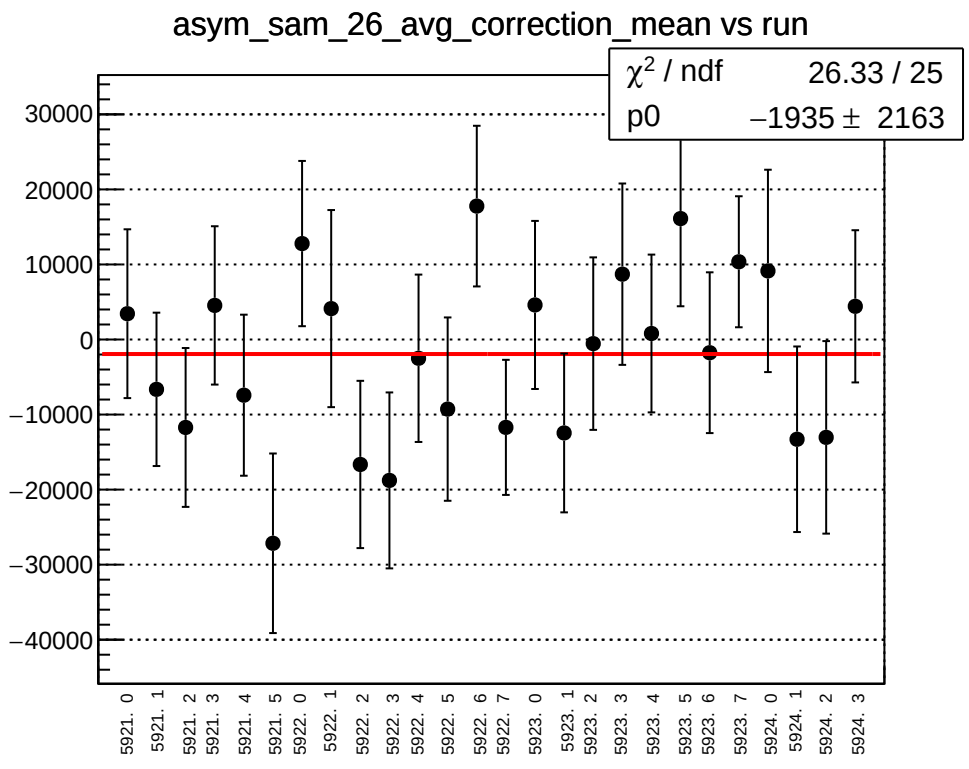

pull1D
Entries 26
Mean 0.004007
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

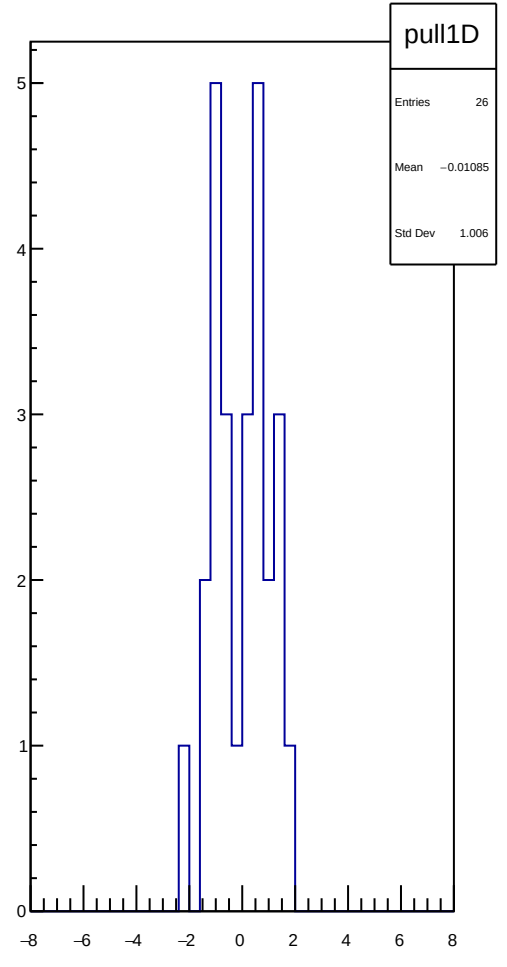

asym_sam_15_avg_rms vs run
χ² / ndf 3621 / 25
p0 727.1 ± 1.03
900
850
800
750
700
650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

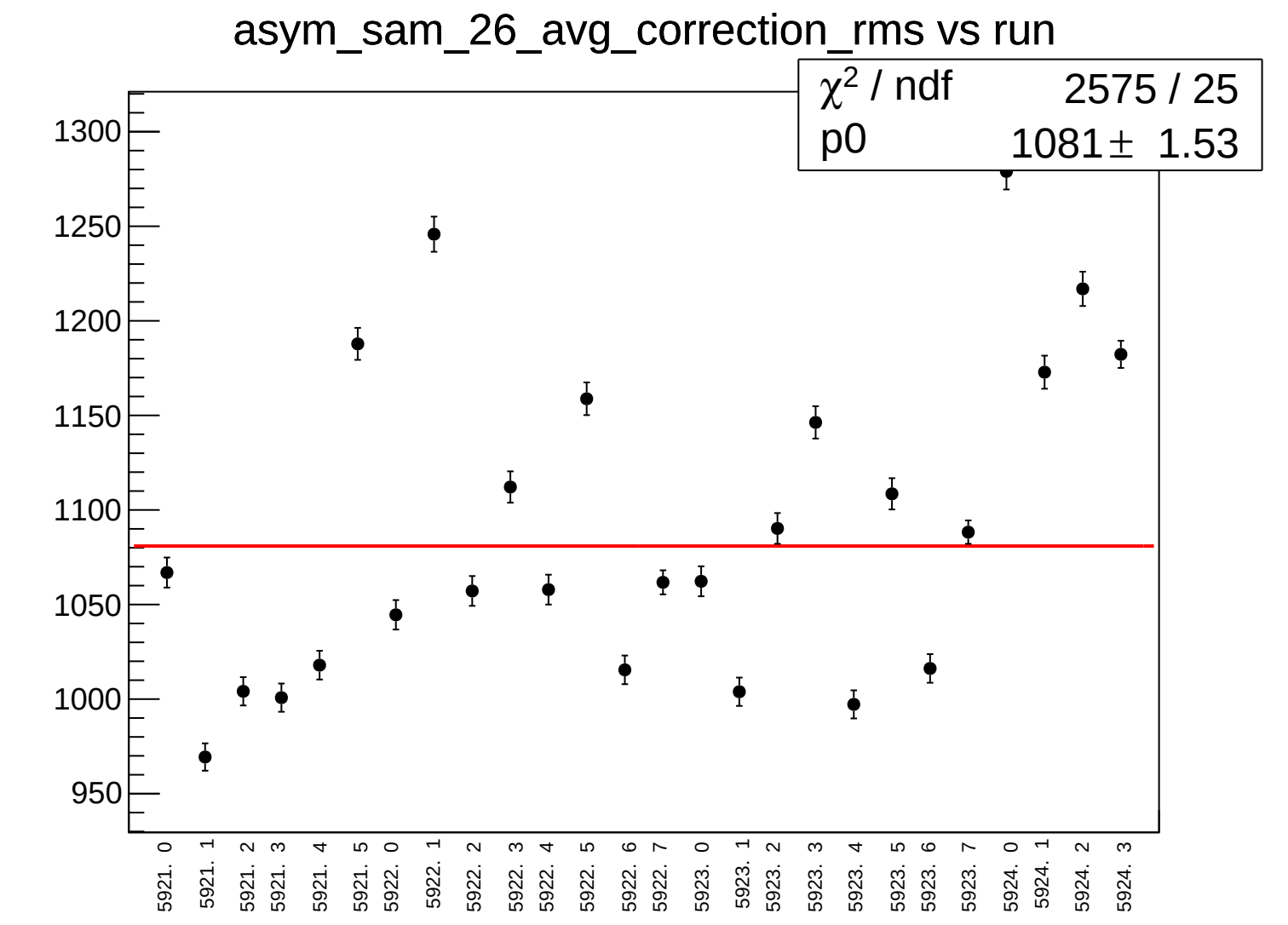

reg_asym_sam_26_avg_mean vs run
χ² / ndf 16.8 / 25
p0 74.95 ± 219.3
3000
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 29.98
Std Dev 10.06
1.5
1
0.5
0
−0.5
−1
−1.5

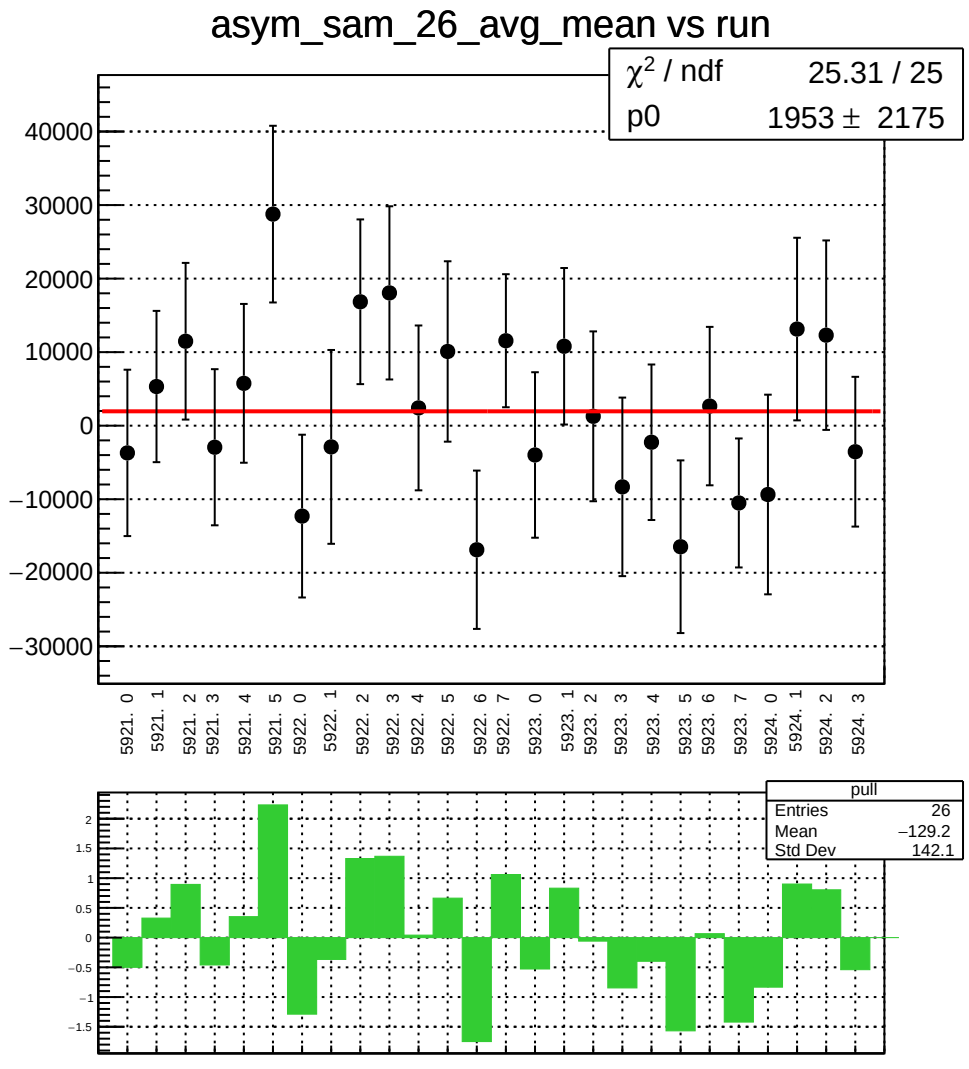

pull1D
Entries 26
Mean −0.0116
Std Dev 0.8038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

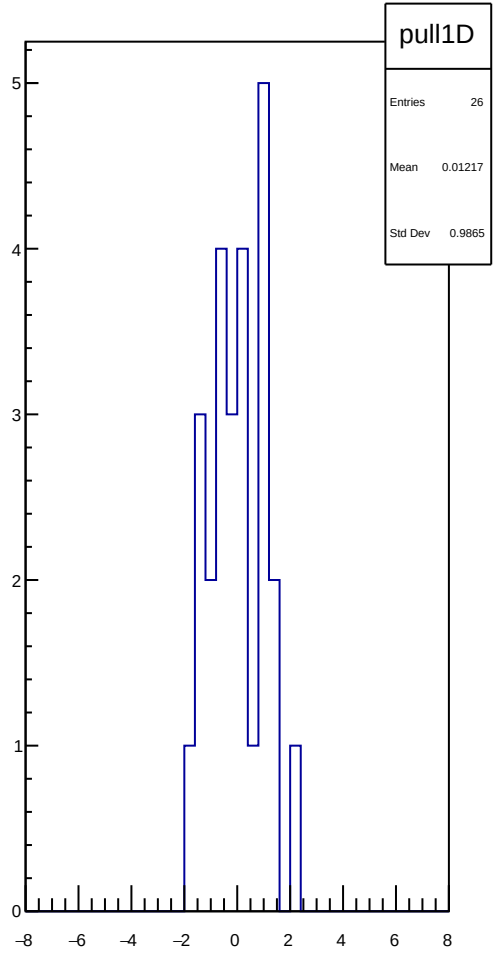

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1680 / 25
p0 109.7 ± 0.1551
150
140
130
120
110
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

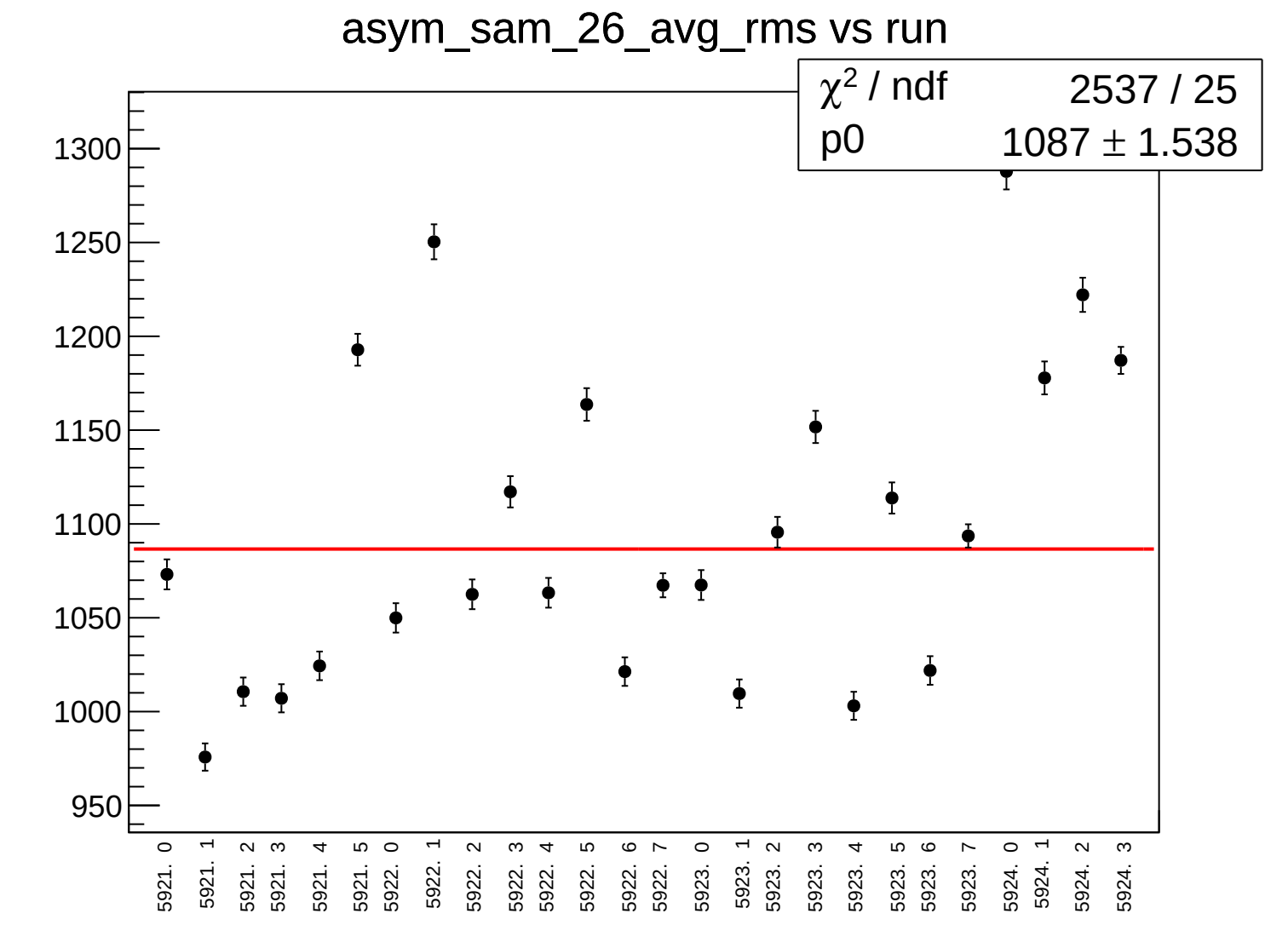

asym_sam_26_avg_correction_mean vs run
χ² / ndf 26.33 / 25
p0 −1935 ± 2163
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −146.6
Std Dev 159.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

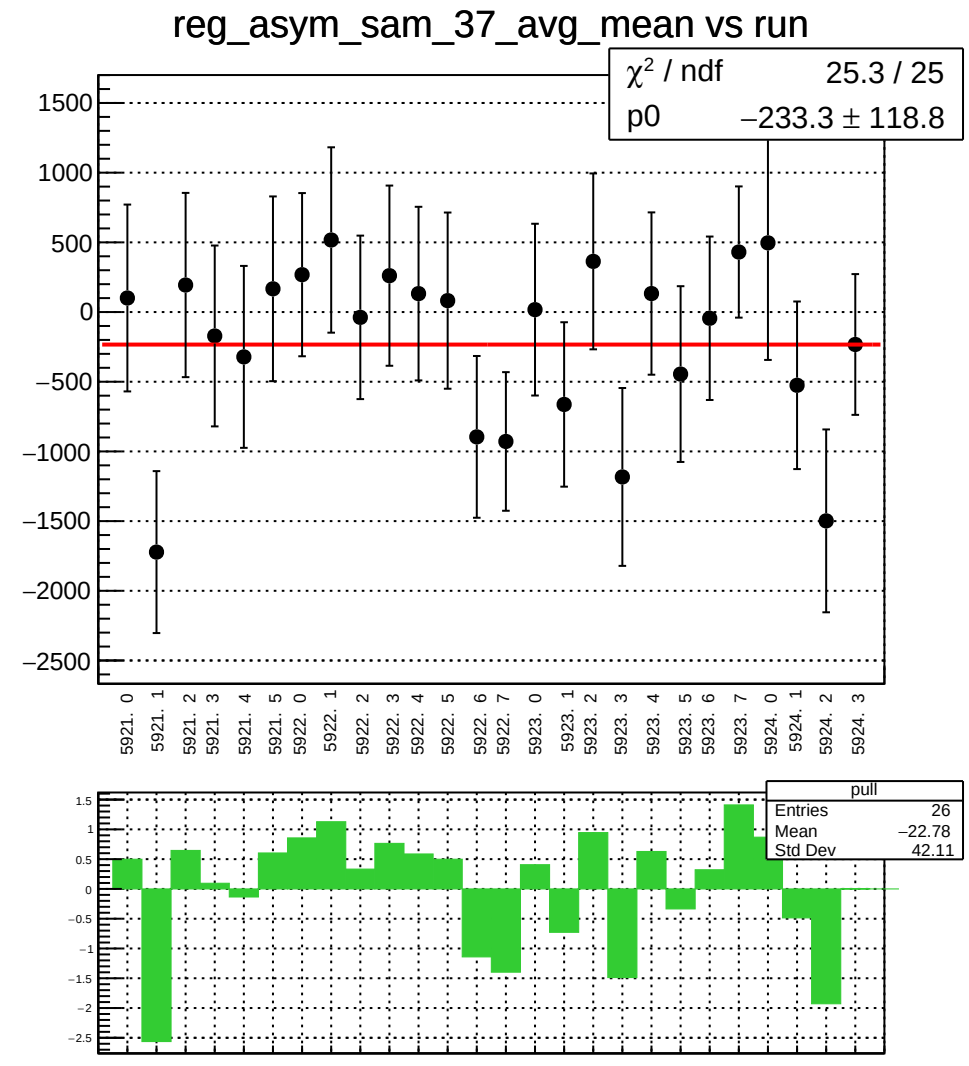

pull1D
Entries 26
Mean −0.01085
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

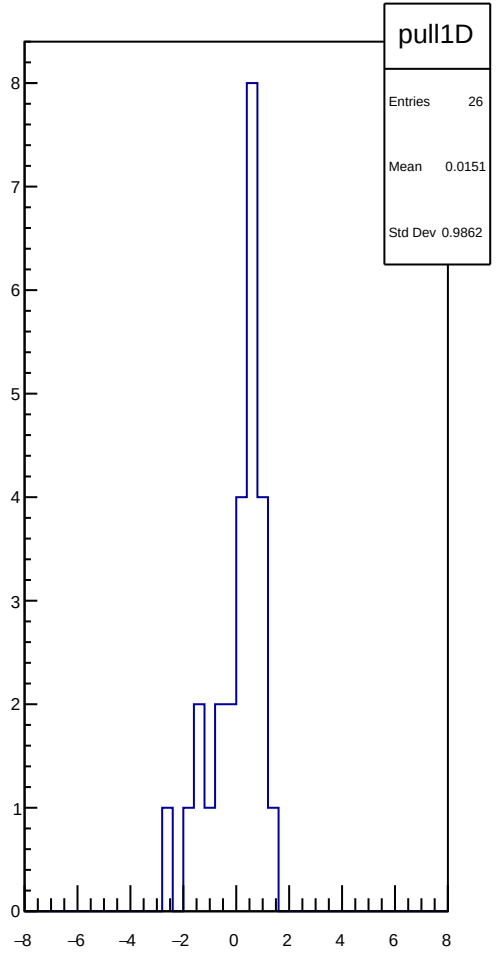

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2575 / 25
p0 1081 ± 1.53
1300
1250
1200
1150
1100
1050
1000
950
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

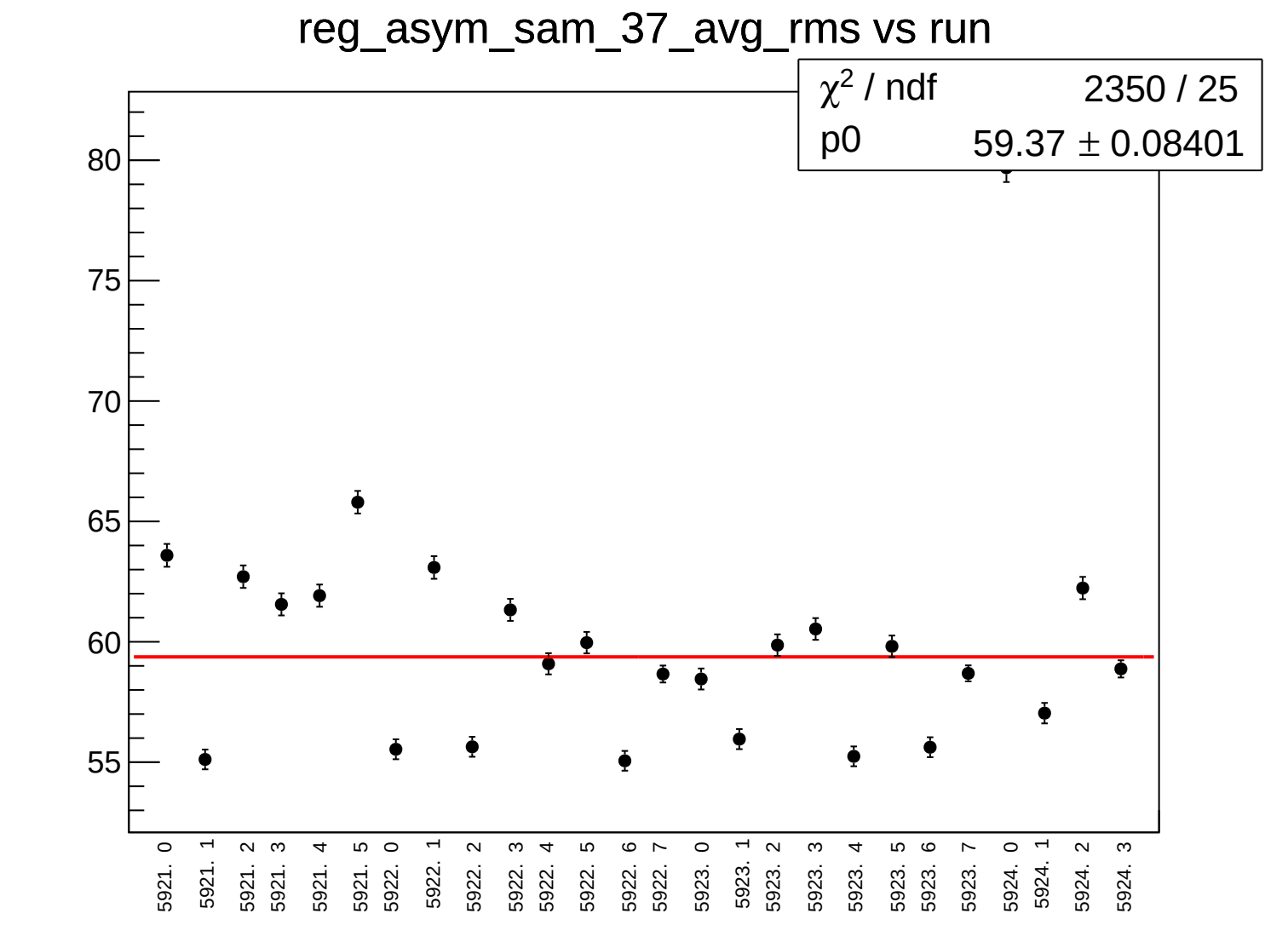

asym_sam_26_avg_mean vs run
χ² / ndf 25.31 / 25
p0 1953 ± 2175
40000
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −129.2
Std Dev 142.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

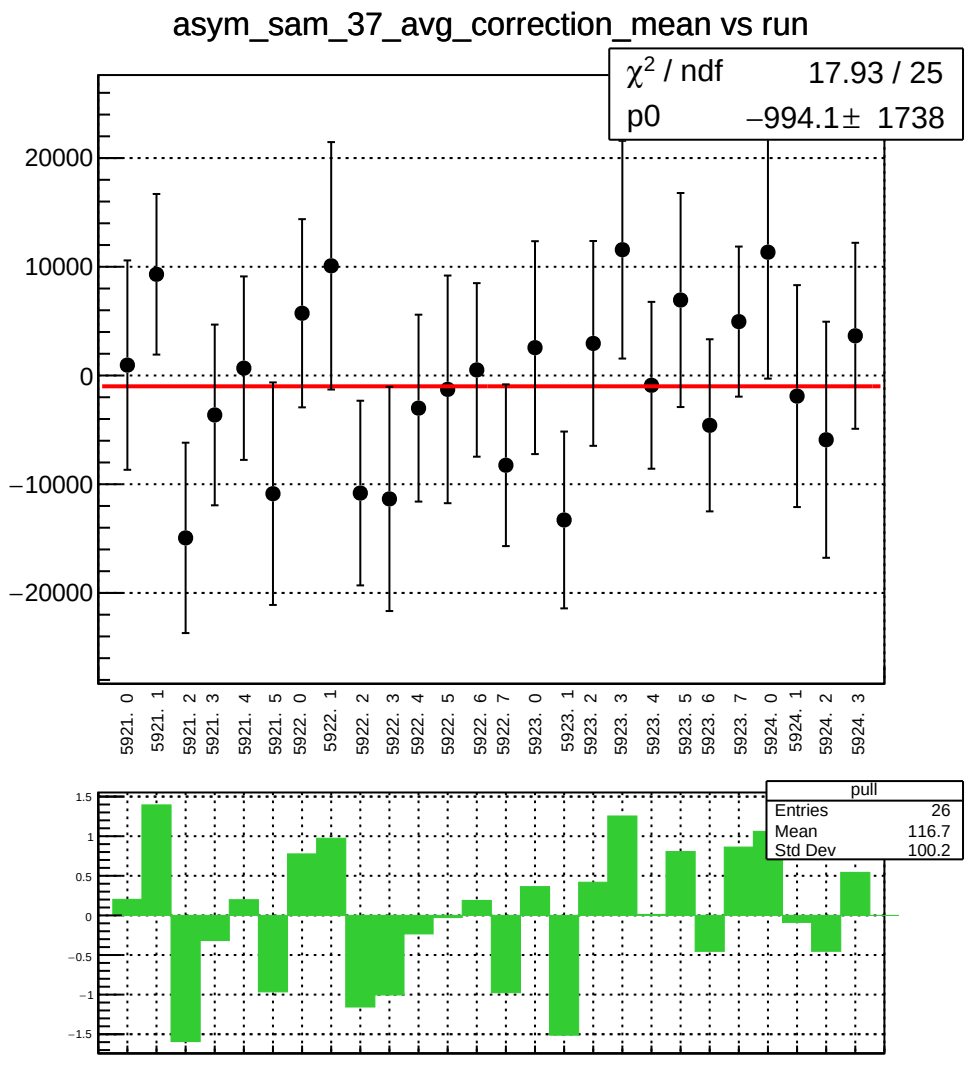

pull1D
Entries 26
Mean 0.01217
Std Dev 0.9865
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

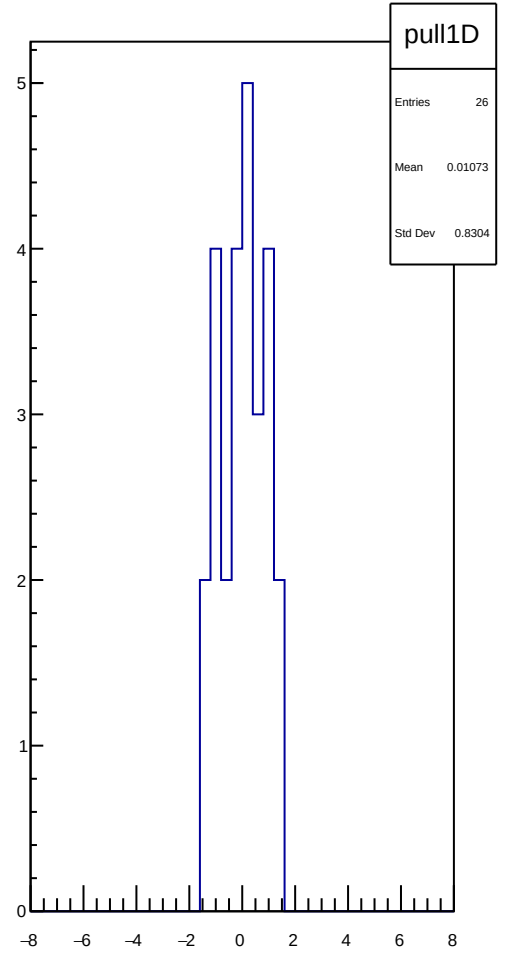

asym_sam_26_avg_rms vs run
χ² / ndf 2537 / 25
p0 1087 ± 1.538
1300
1250
1200
1150
1100
1050
1000
950
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

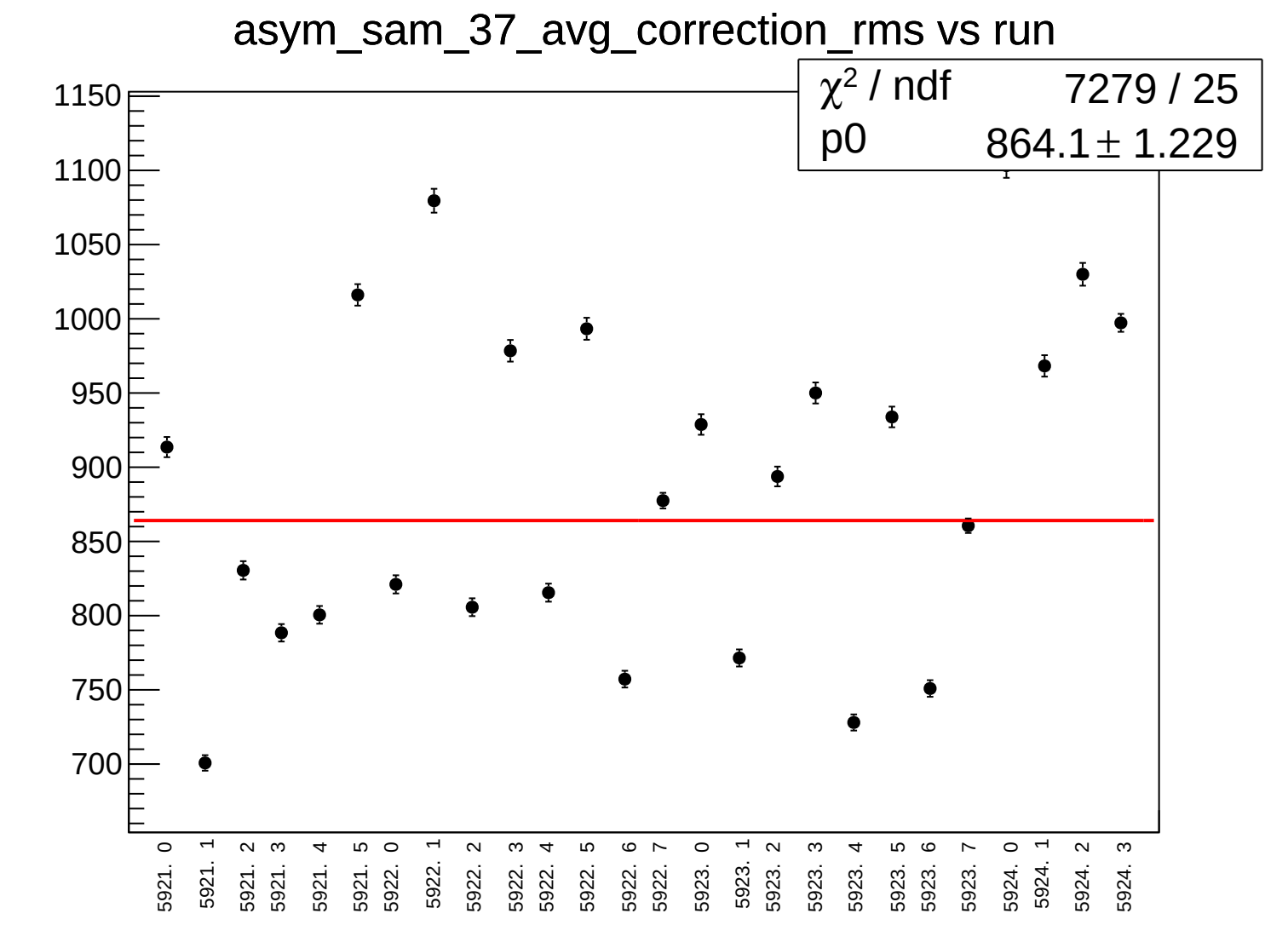

reg_asym_sam_37_avg_mean vs run
χ² / ndf 25.3 / 25
p0 −233.3 ± 118.8
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −22.78
Std Dev 42.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

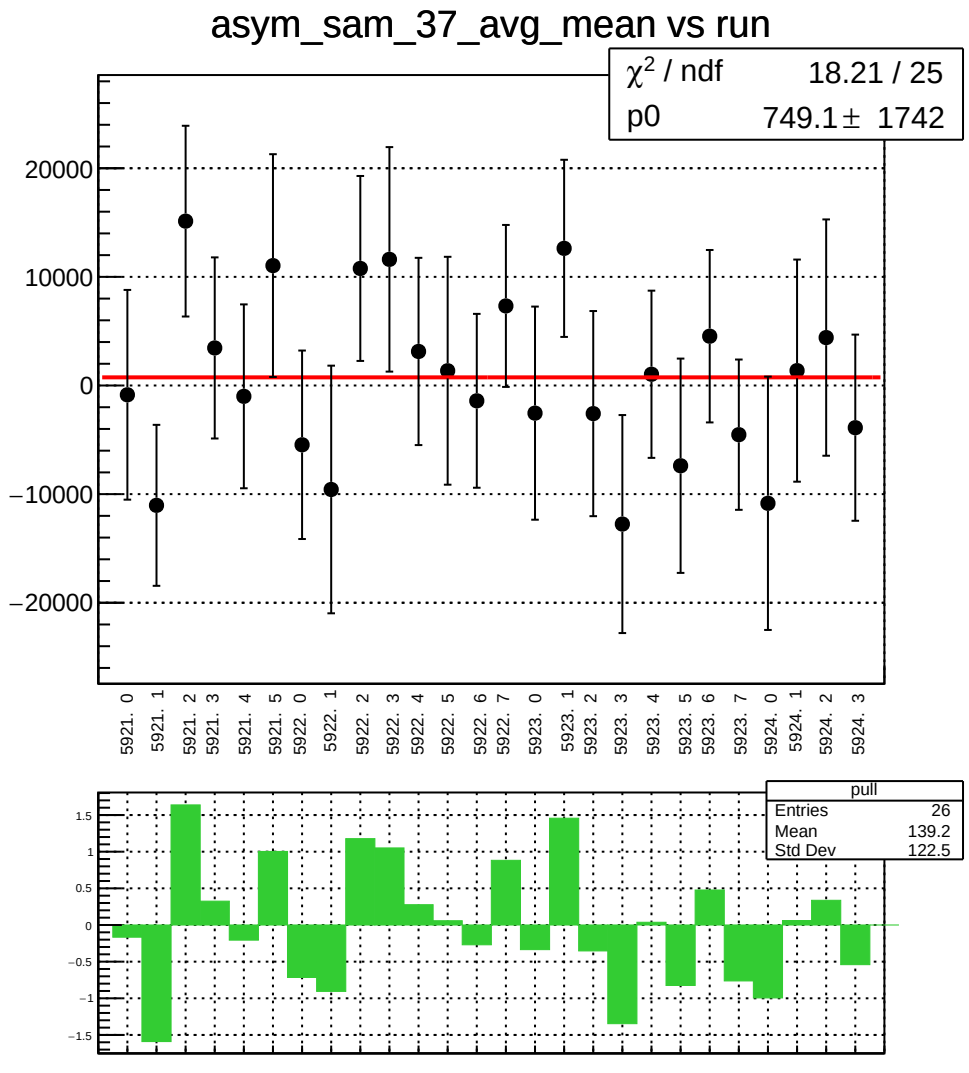

pull1D
Entries 26
Mean 0.0151
Std Dev 0.9862
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

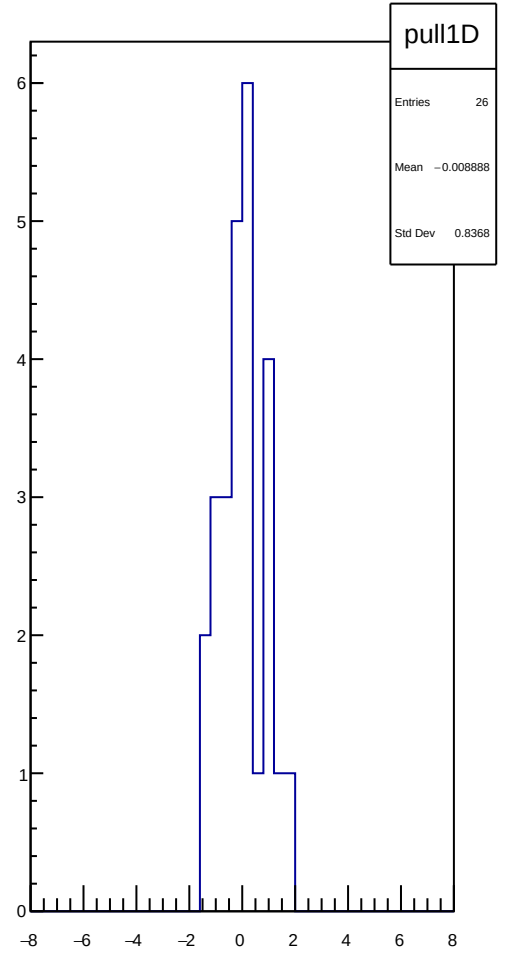

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2350 / 25
p0 59.37 ± 0.08401
80
75
70
65
60
55
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

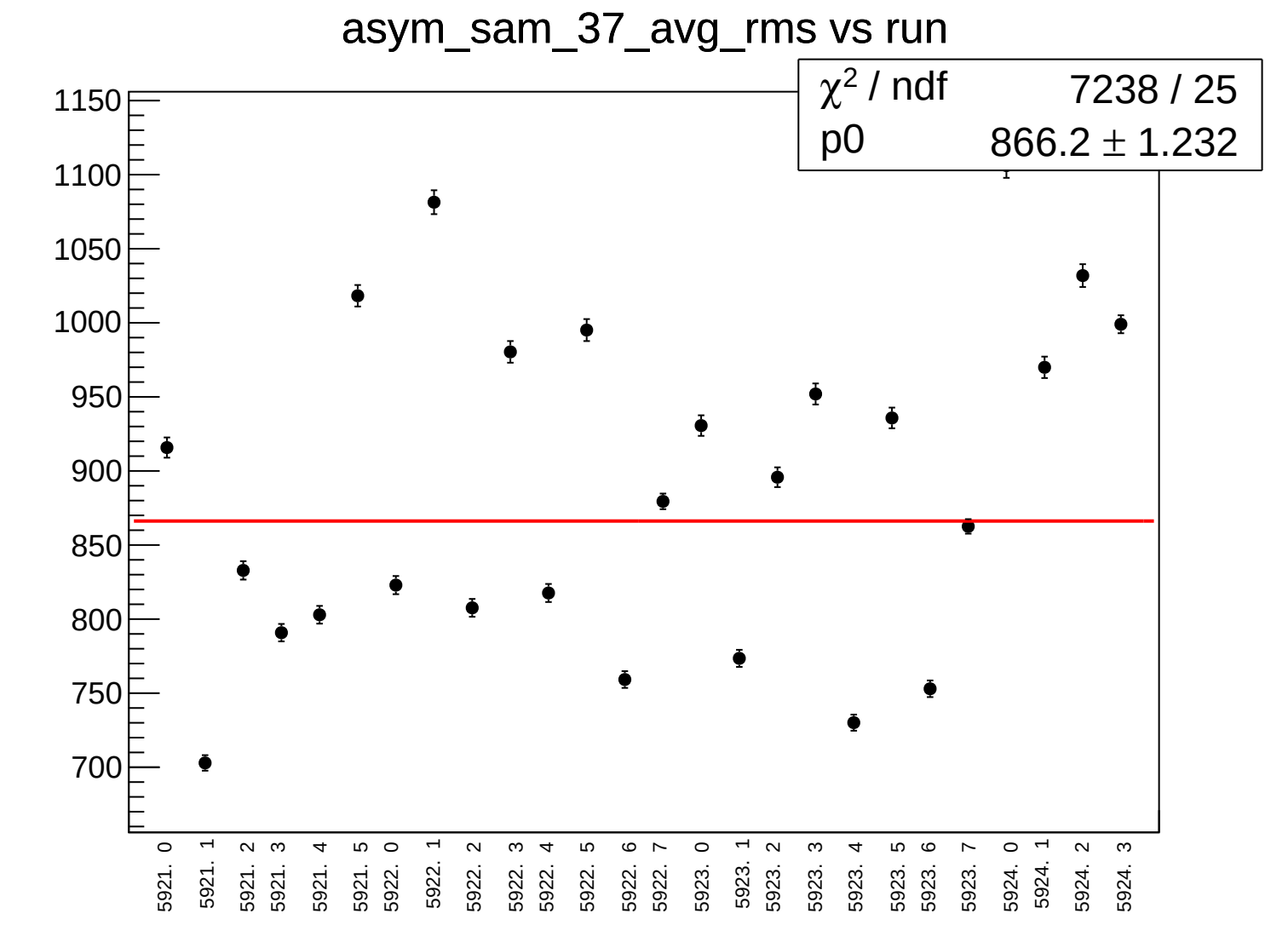

asym_sam_37_avg_correction_mean vs run
χ² / ndf 17.93 / 25
p0 −994.1± 1738
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 116.7
Std Dev 100.2
1.5
1
0.5
0
−0.5
−1
−1.5

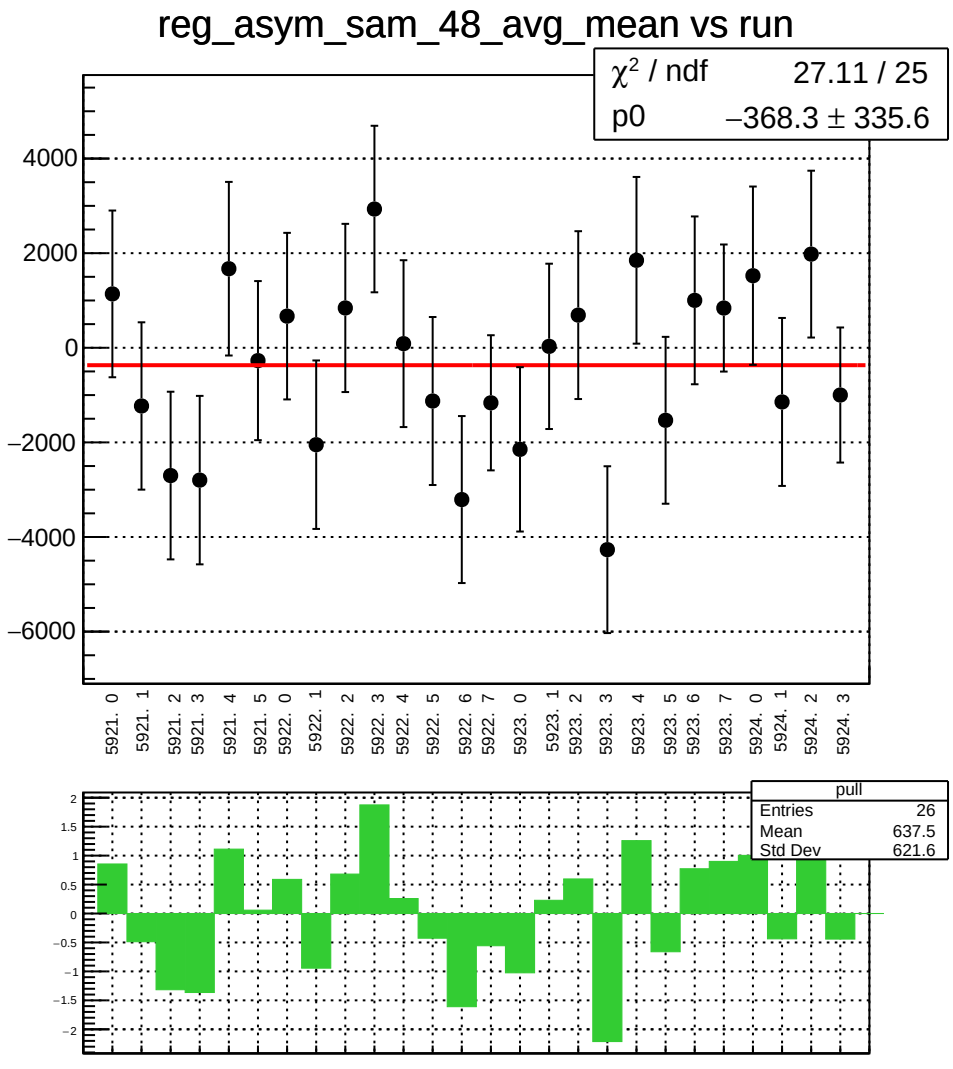

pull1D
Entries 26
Mean 0.01073
Std Dev 0.8304
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

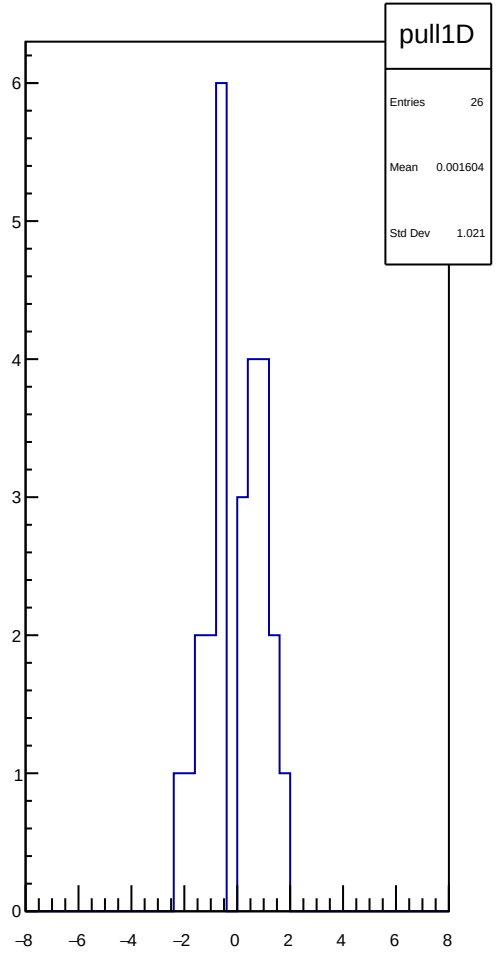

asym_sam_37_avg_correction_rms vs run
χ² / ndf 7279 / 25
p0 864.1 ± 1.229
1150
1100
1050
1000
950
900
850
800
750
700
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

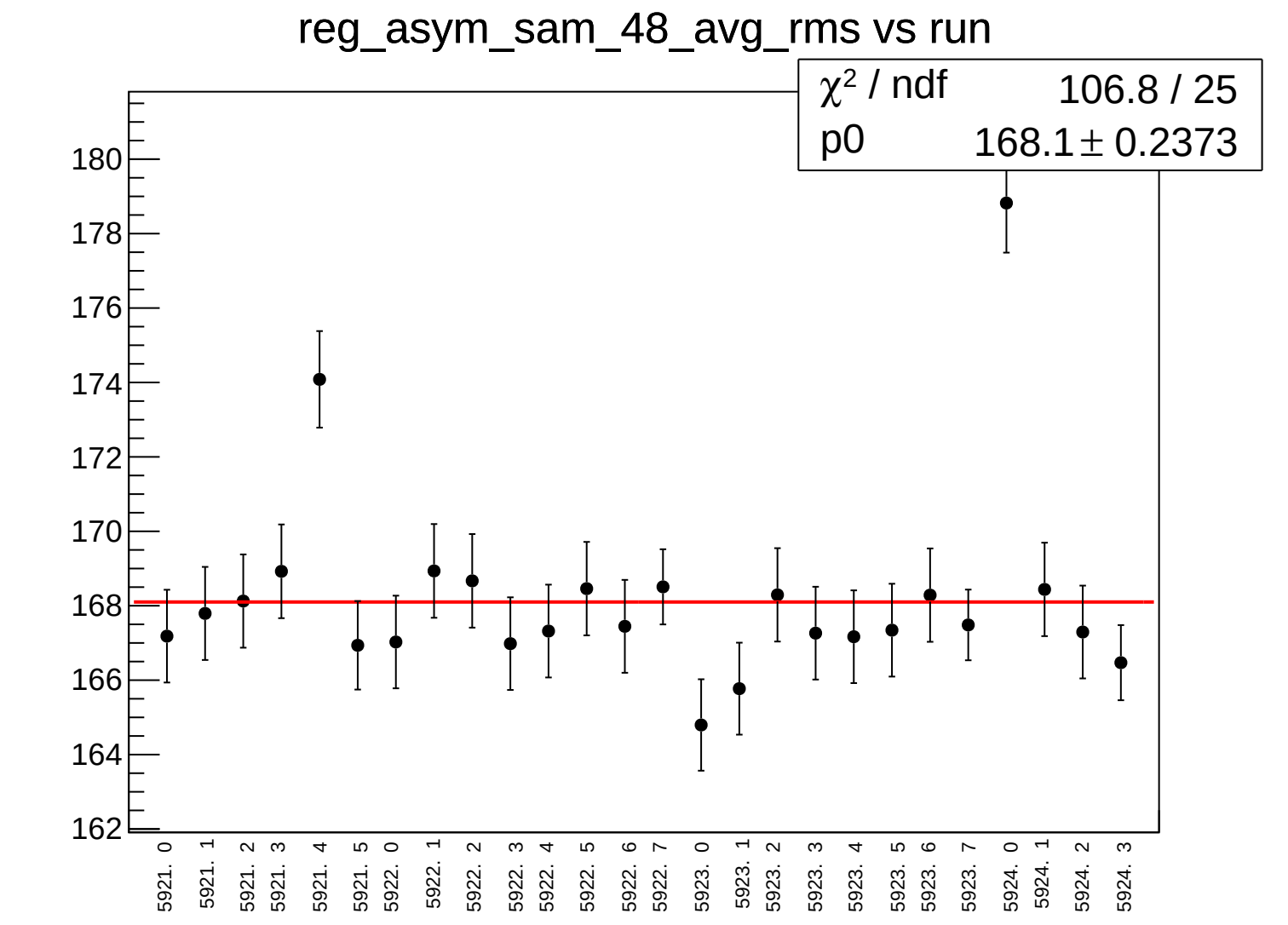

asym_sam_37_avg_mean vs run
χ² / ndf 18.21 / 25
p0 749.1± 1742
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 139.2
Std Dev 122.5
1.5
1
0.5
0
−0.5
−1
−1.5

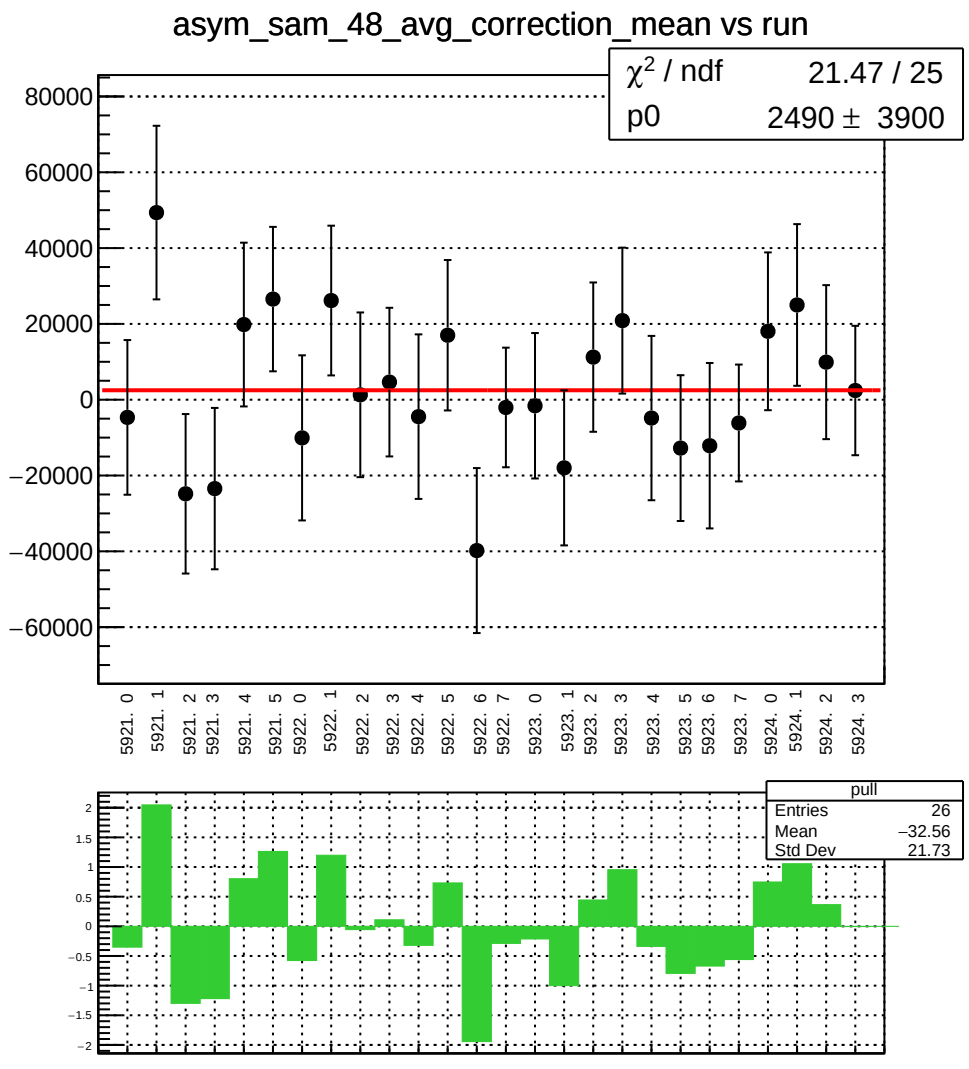

pull1D
Entries 26
Mean −0.008888
Std Dev 0.8368
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

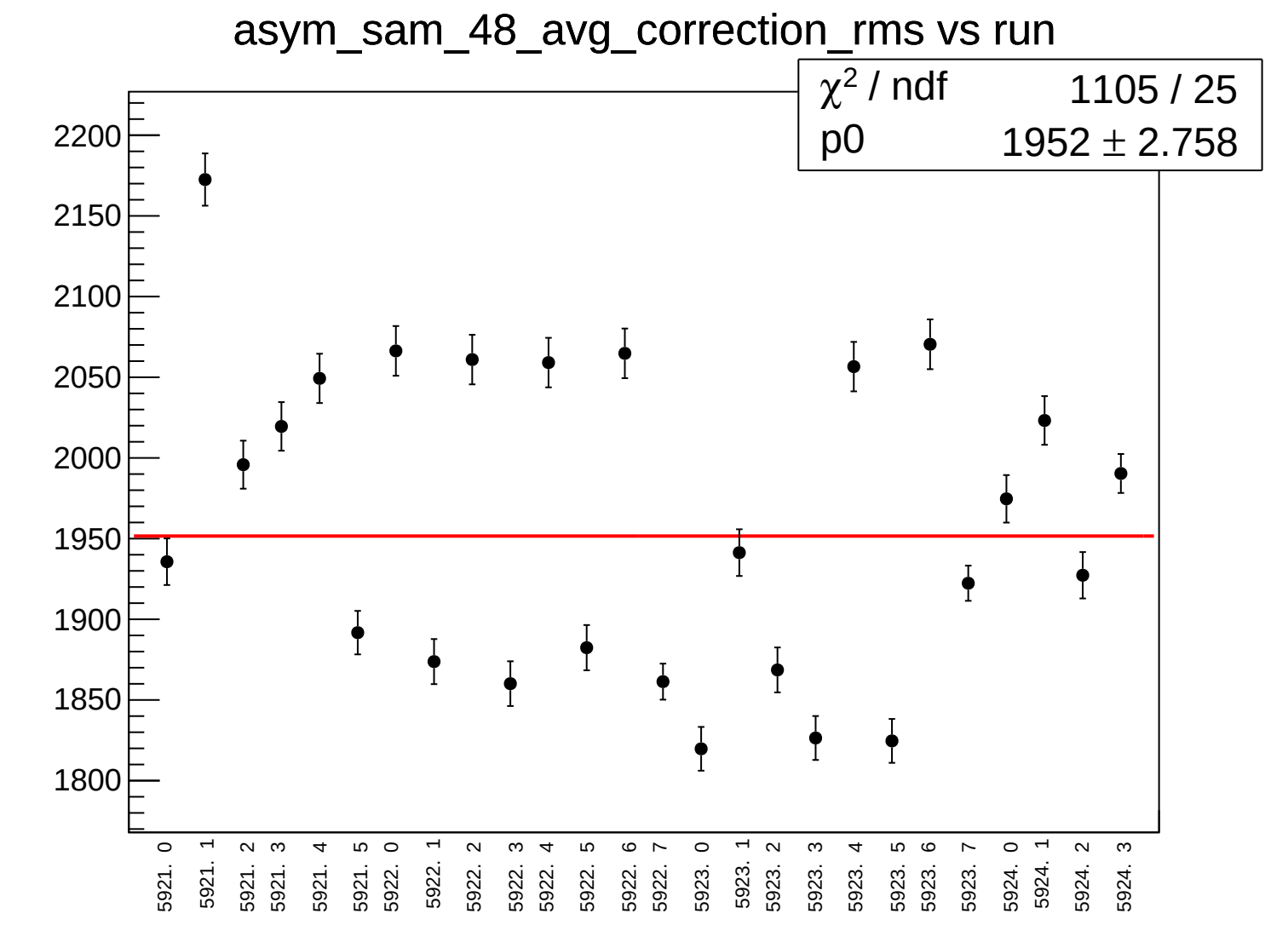

asym_sam_37_avg_rms vs run
χ² / ndf 7238 / 25
p0 866.2 ± 1.232
1150
1100
1050
1000
950
900
850
800
750
700
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

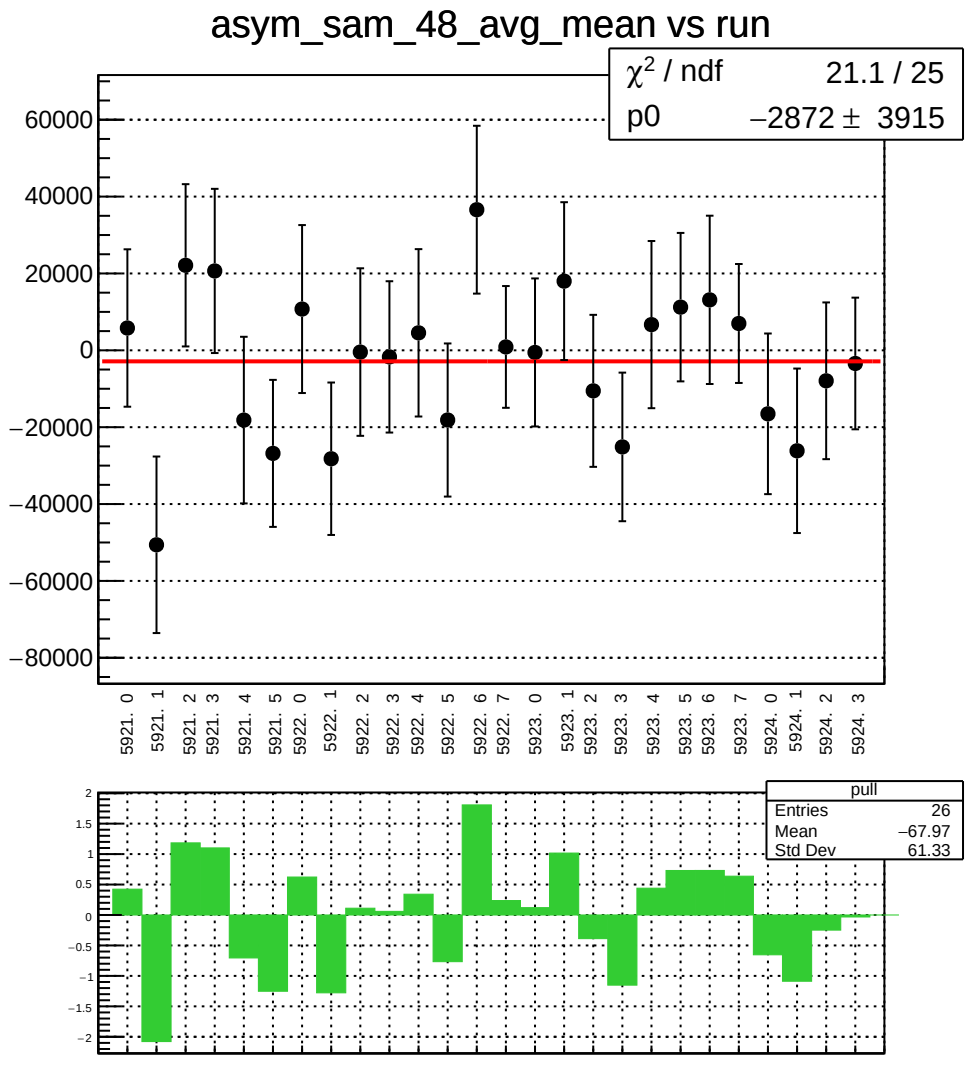

reg_asym_sam_48_avg_mean vs run
χ² / ndf 27.11 / 25
p0 −368.3 ± 335.6
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 637.5
Std Dev 621.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

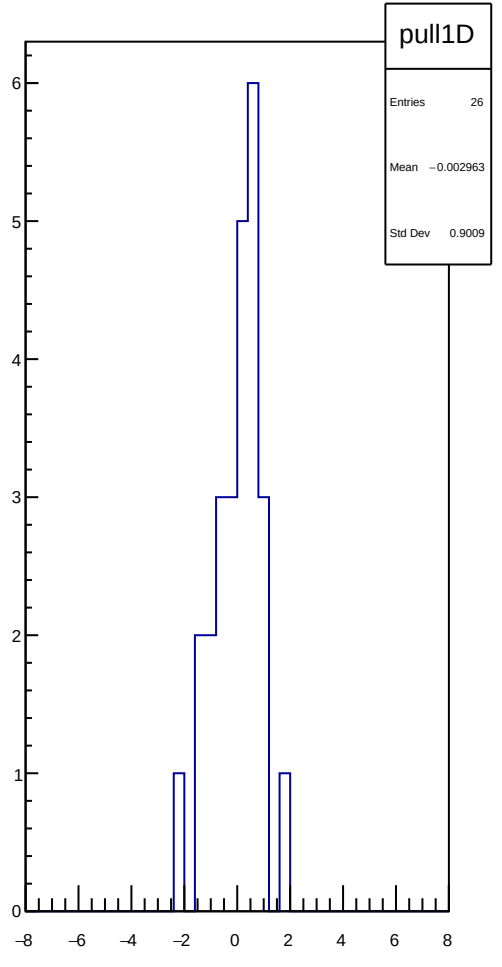

pull1D
Entries 26
Mean 0.001604
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

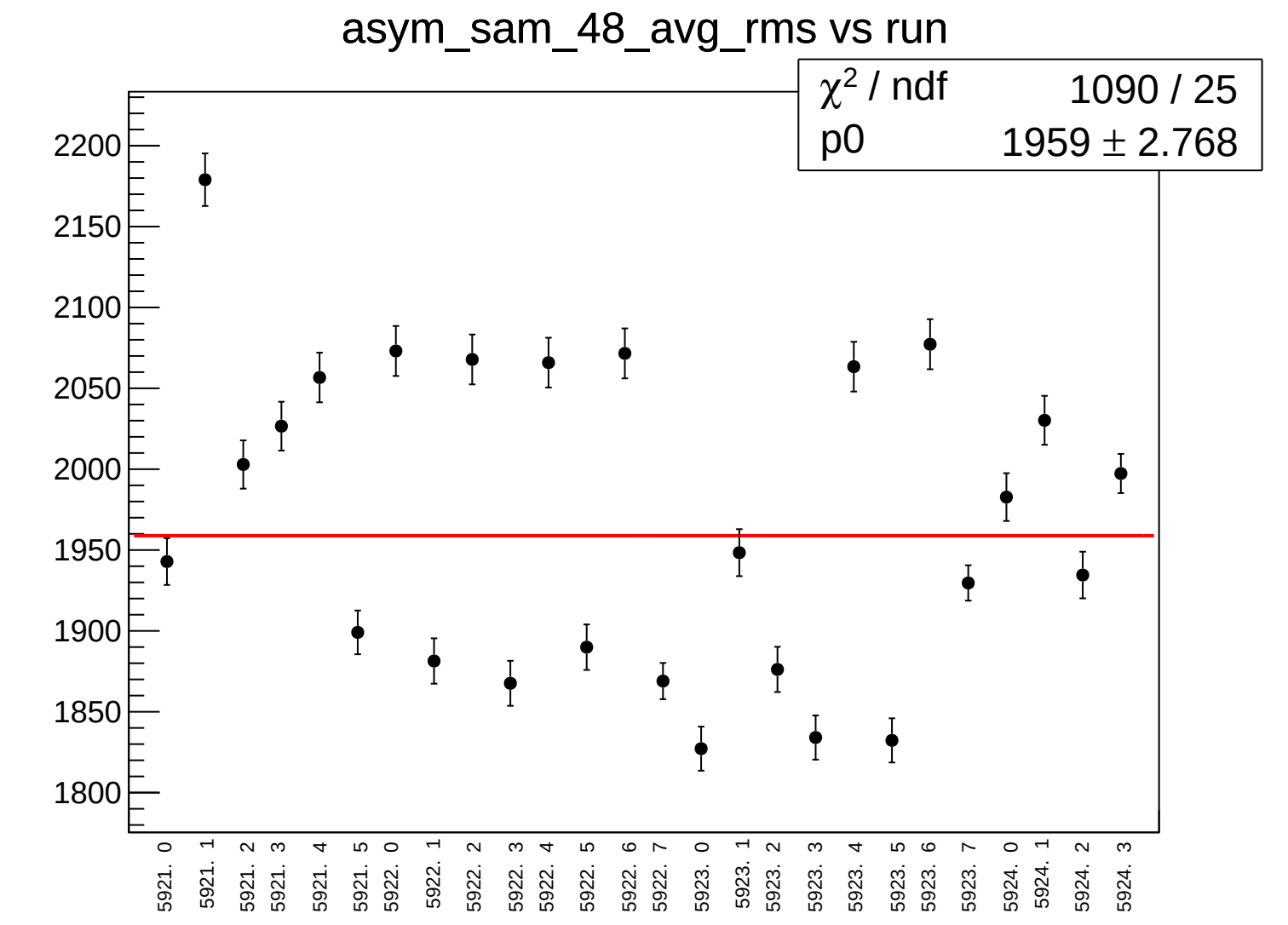

reg_asym_sam_48_avg_rms vs run
χ² / ndf 106.8 / 25
p0 168.1 ± 0.2373
180
178
176
174
172
170
168
166
164
162
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

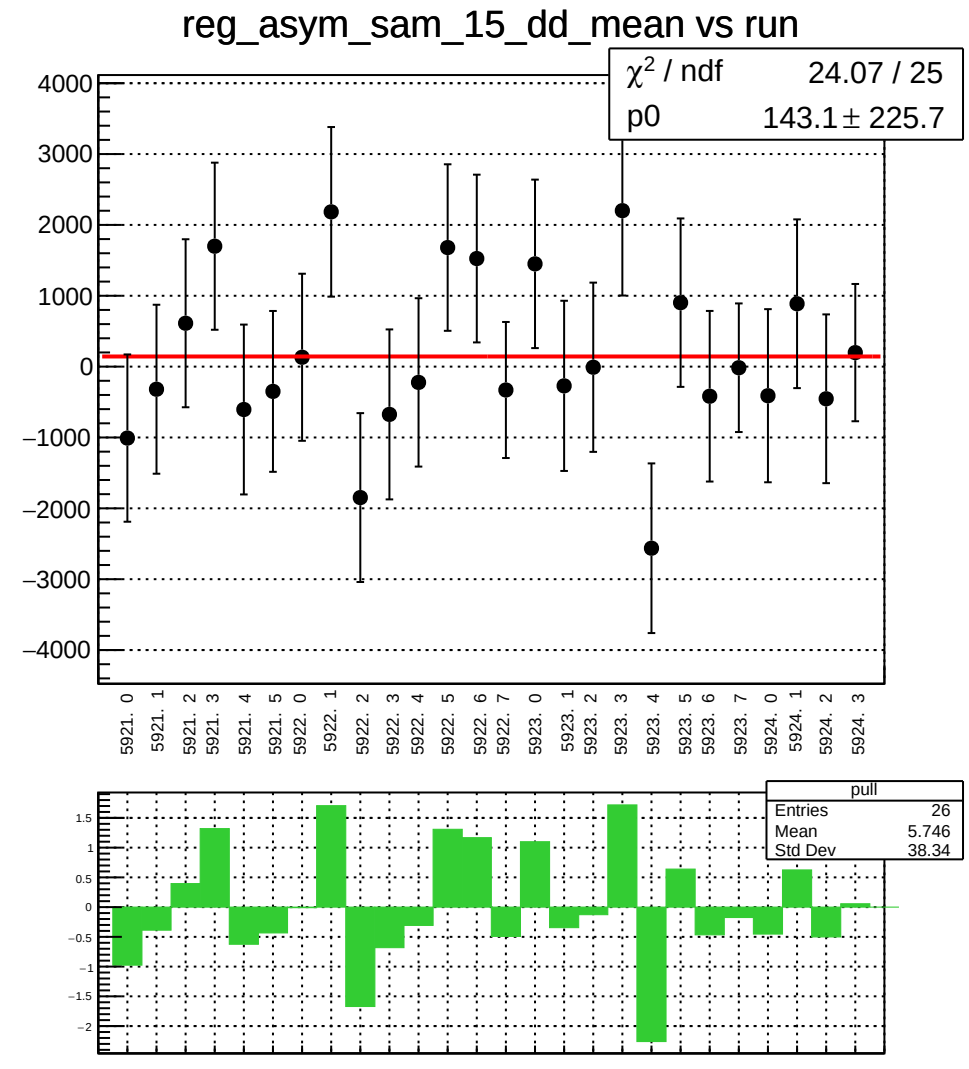

asym_sam_48_avg_correction_mean vs run
χ² / ndf 21.47 / 25
p0 2490 ± 3900
80000
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −32.56
Std Dev 21.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.003483
Std Dev 0.9087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

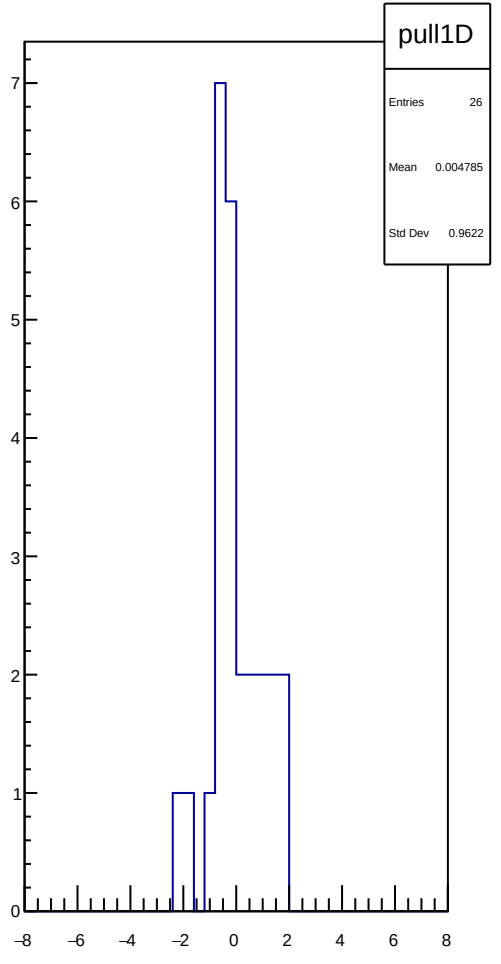

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1105 / 25
p0 1952 ± 2.758
2200
2150
2100
2050
2000
1950
1900
1850
1800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

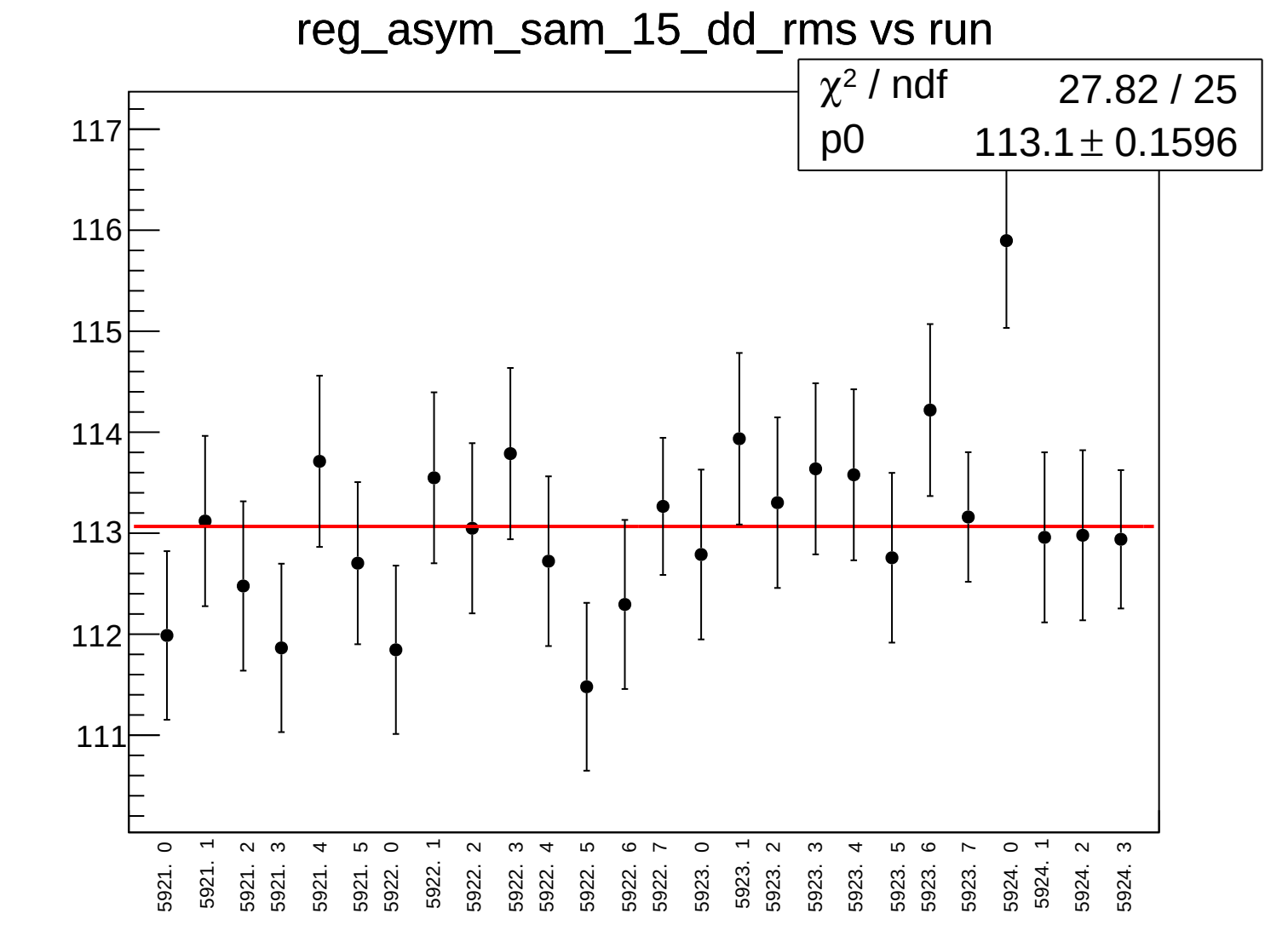

asym_sam_48_avg_mean vs run
χ² / ndf 21.1 / 25
p0 −2872 ± 3915
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −67.97
Std Dev 61.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

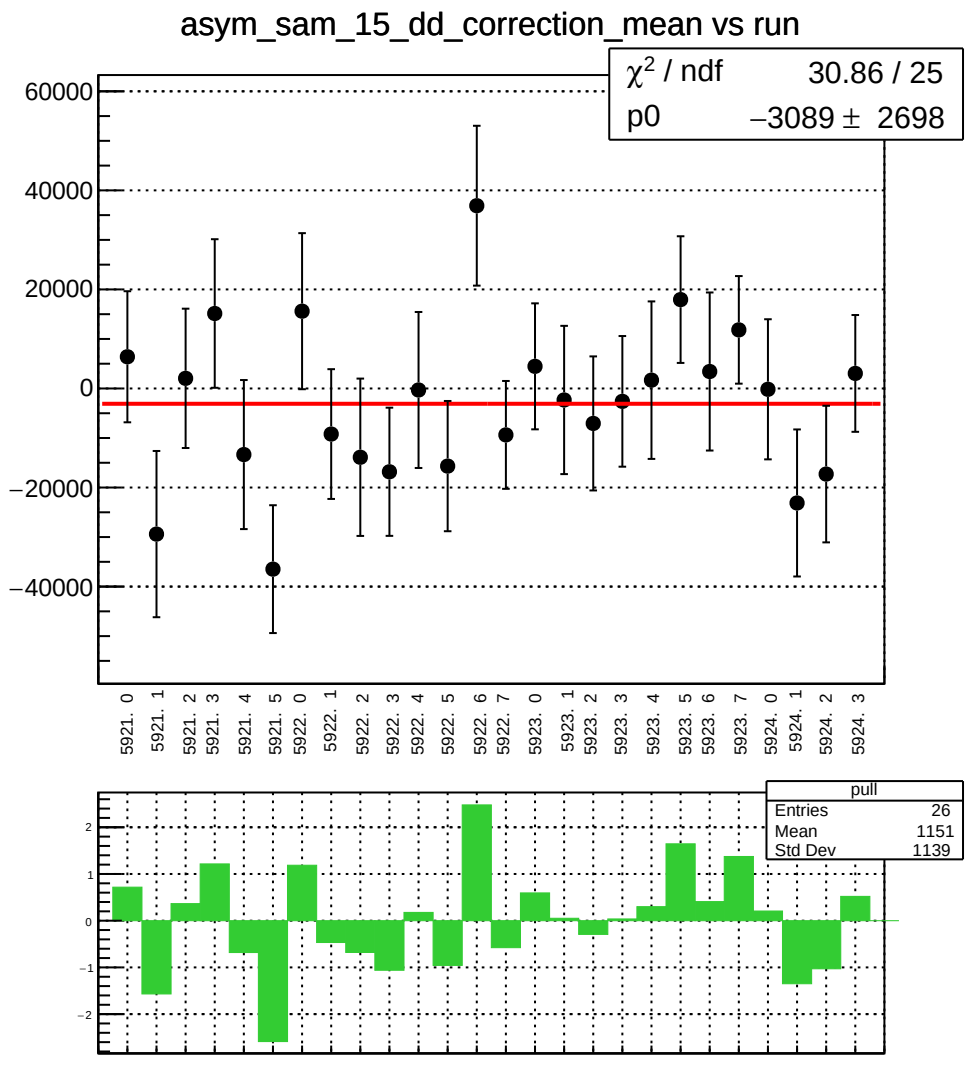

pull1D
Entries 26
Mean −0.002963
Std Dev 0.9009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

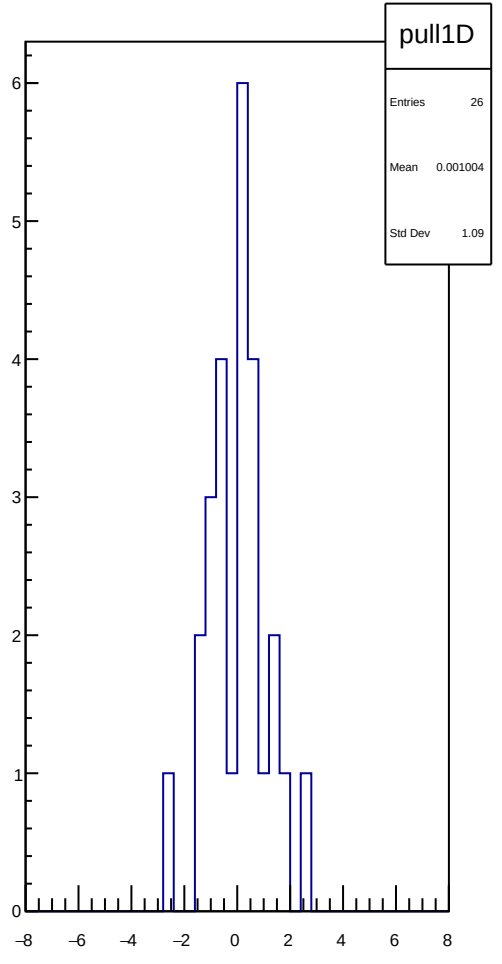

asym_sam_48_avg_rms vs run
χ² / ndf 1090 / 25
p0 1959 ± 2.768
2200
2150
2100
2050
2000
1950
1900
1850
1800
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

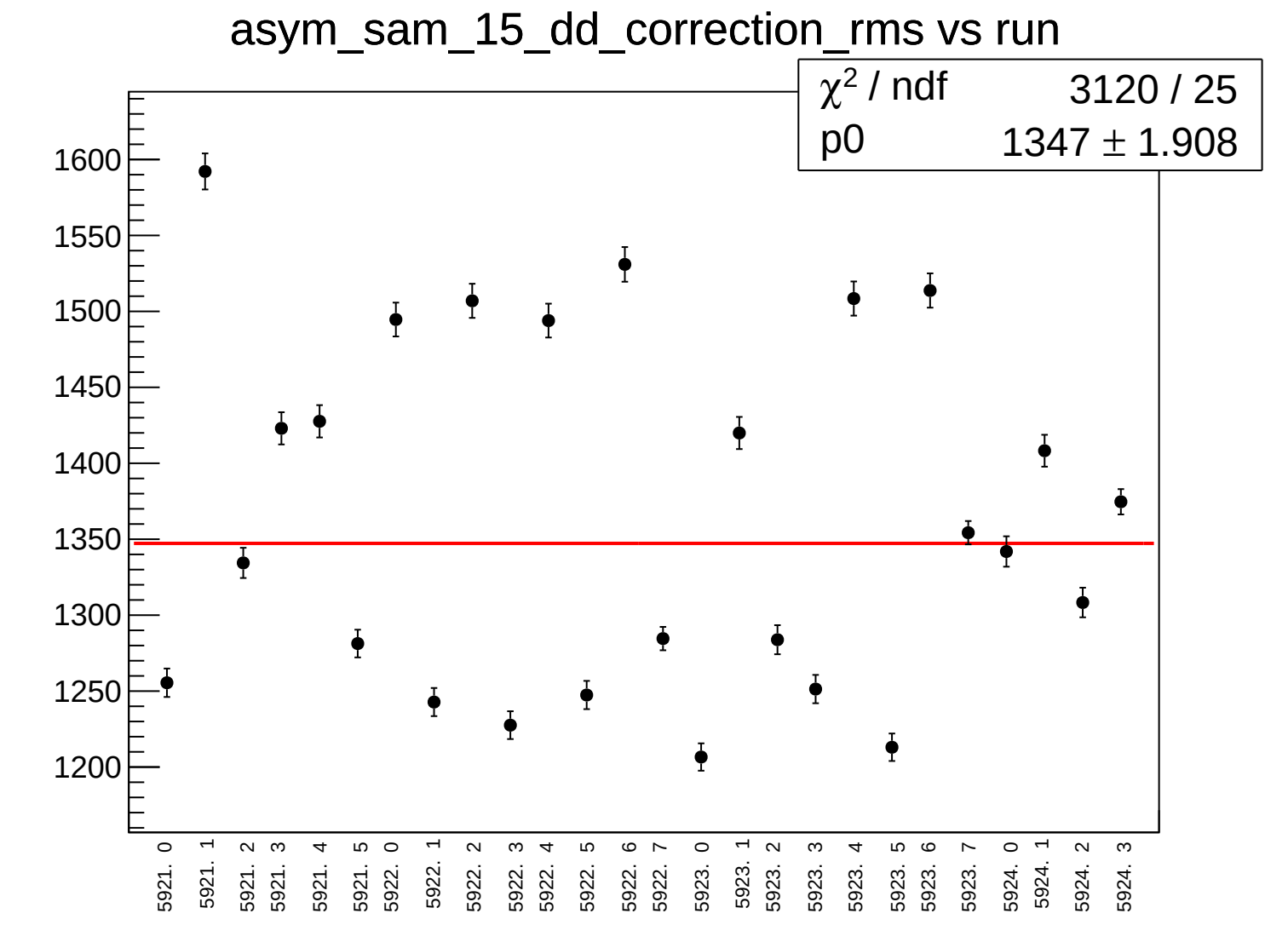

reg_asym_sam_15_dd_mean vs run
χ² / ndf 24.07 / 25
p0 143.1 ± 225.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5.746
Std Dev 38.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

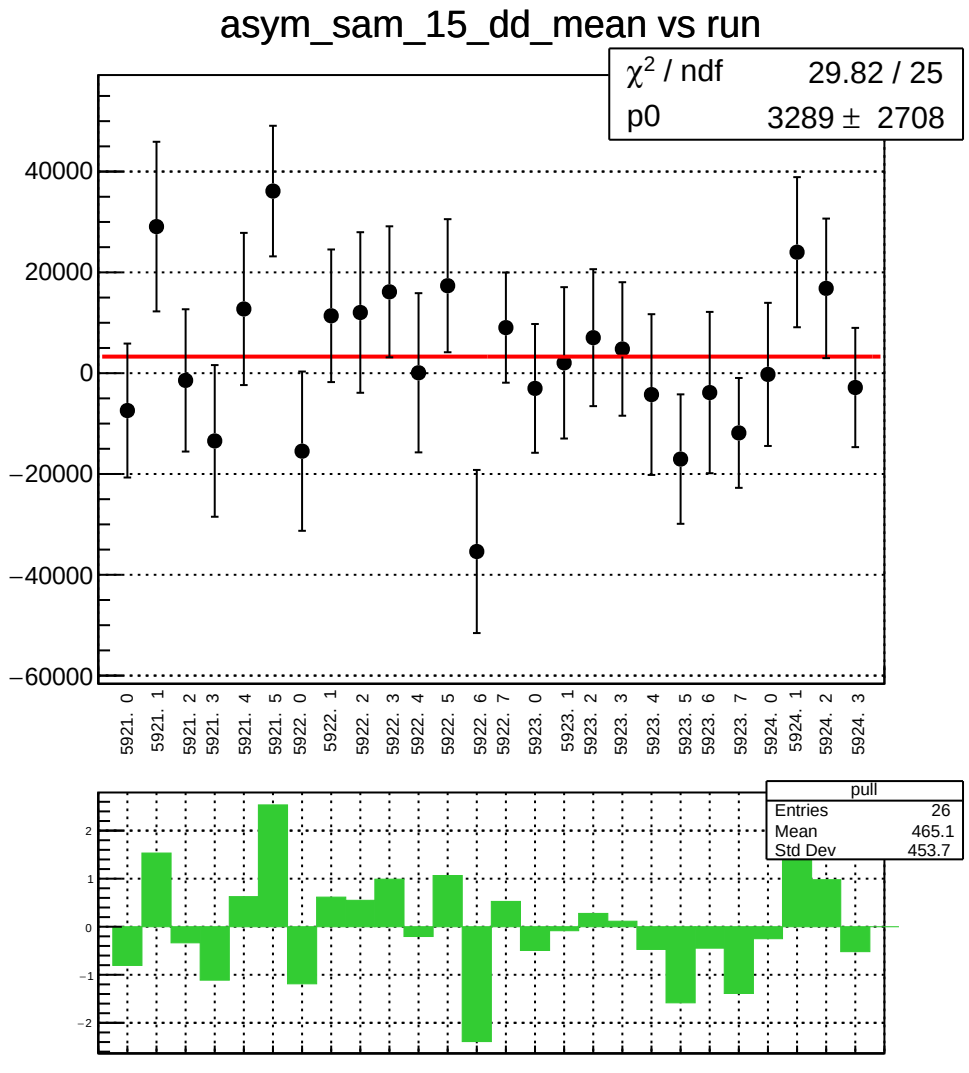

pull1D
Entries 26
Mean 0.004785
Std Dev 0.9622
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

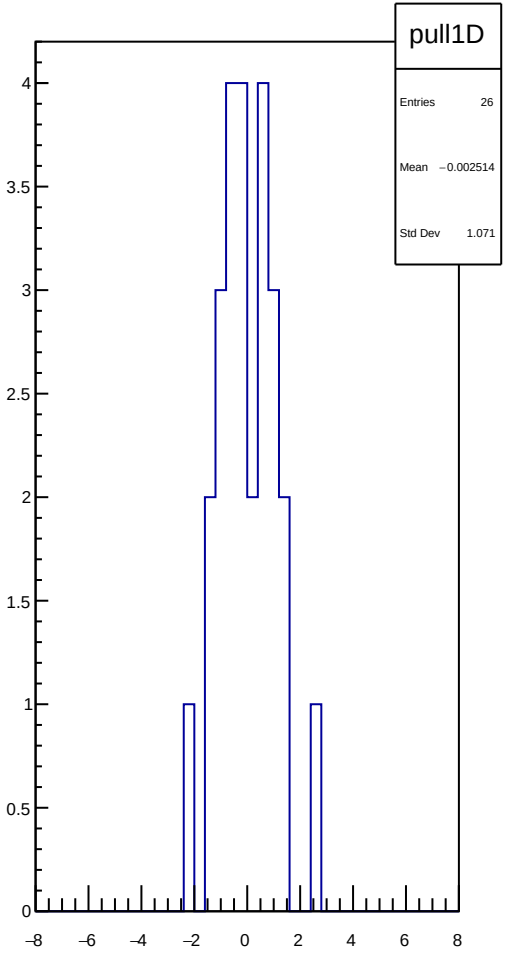

reg_asym_sam_15_dd_rms vs run
χ² / ndf 27.82 / 25
p0 113.1 ± 0.1596
117
116
115
114
113
112
111
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

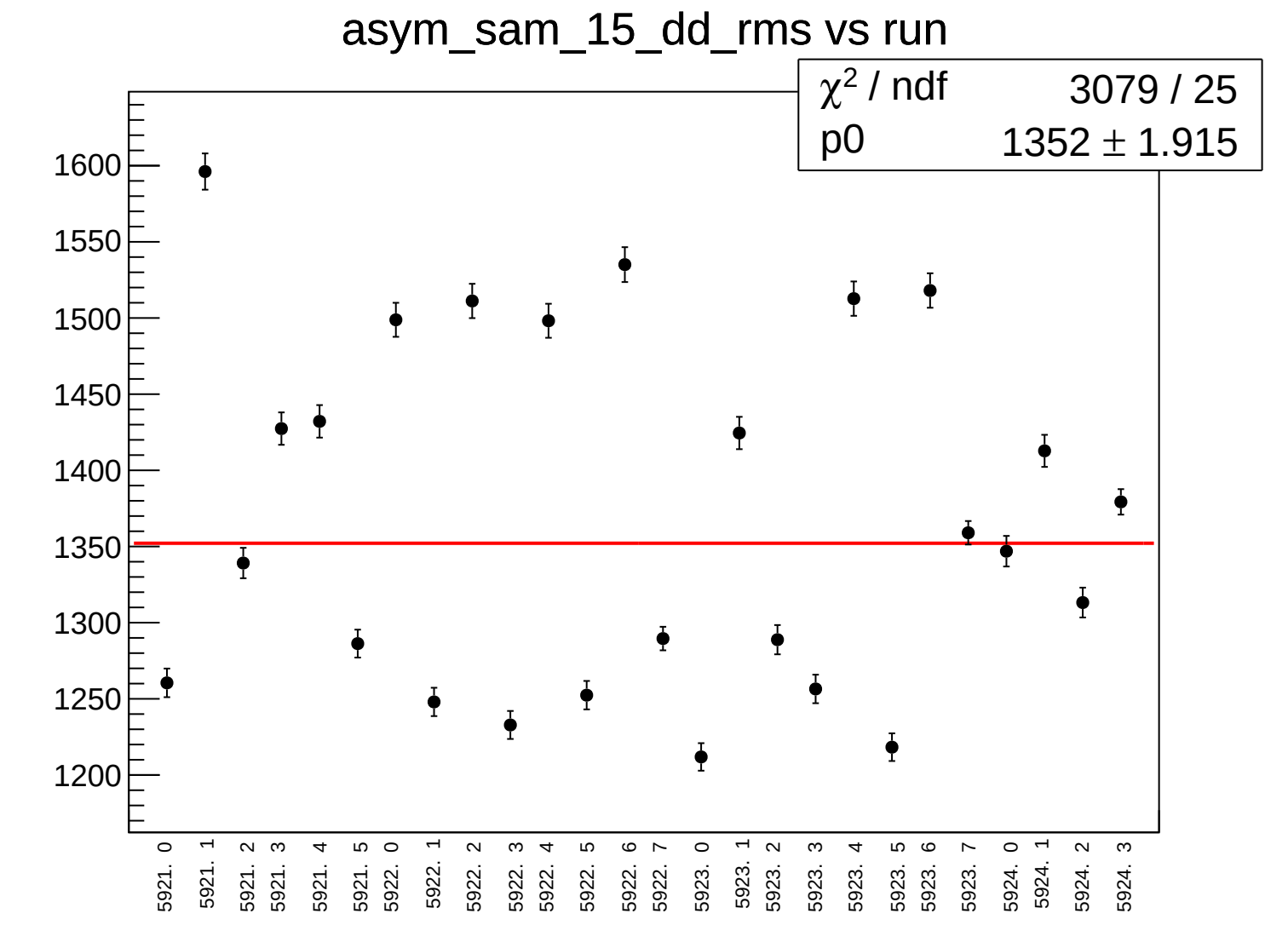

asym_sam_15_dd_correction_mean vs run
χ² / ndf 30.86 / 25
p0 −3089 ± 2698
60000
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1151
Std Dev 1139
2
1
0
−1
−2

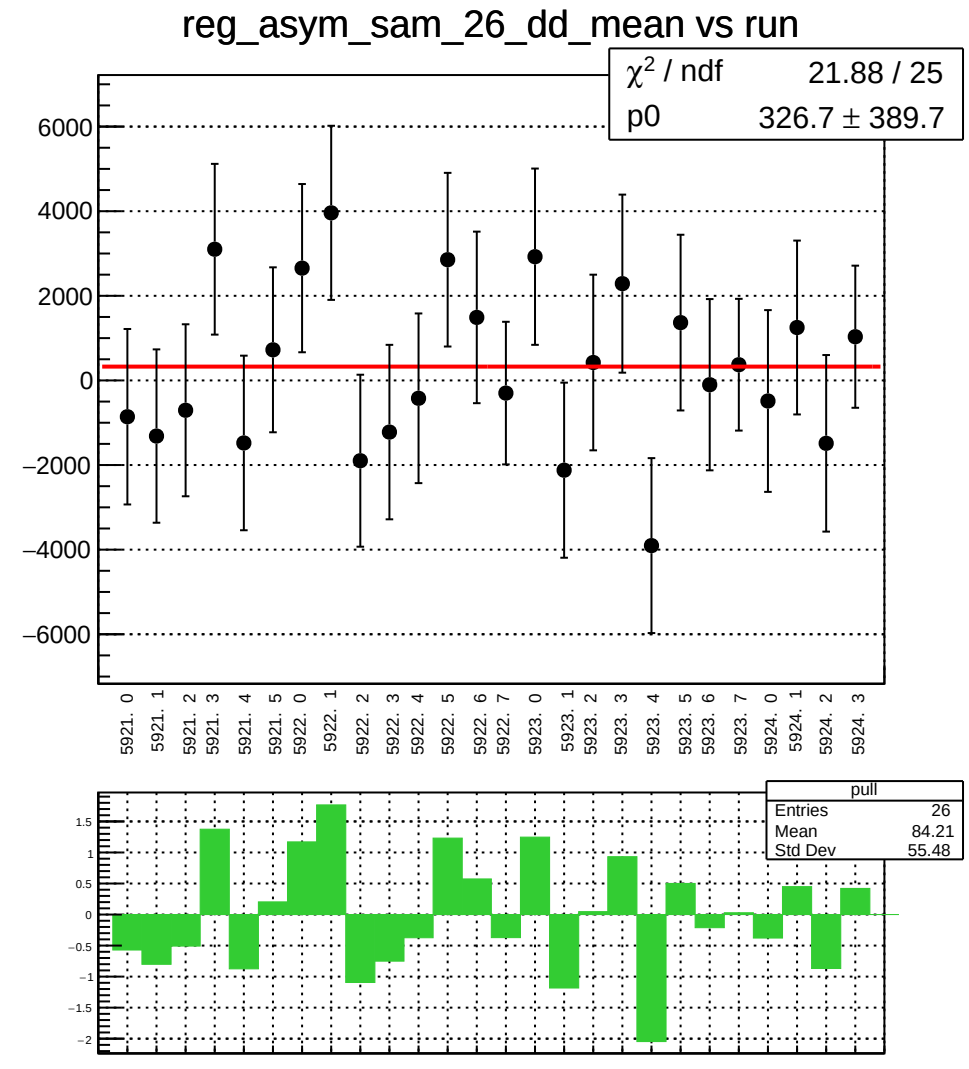

pull1D
Entries 26
Mean 0.001004
Std Dev 1.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

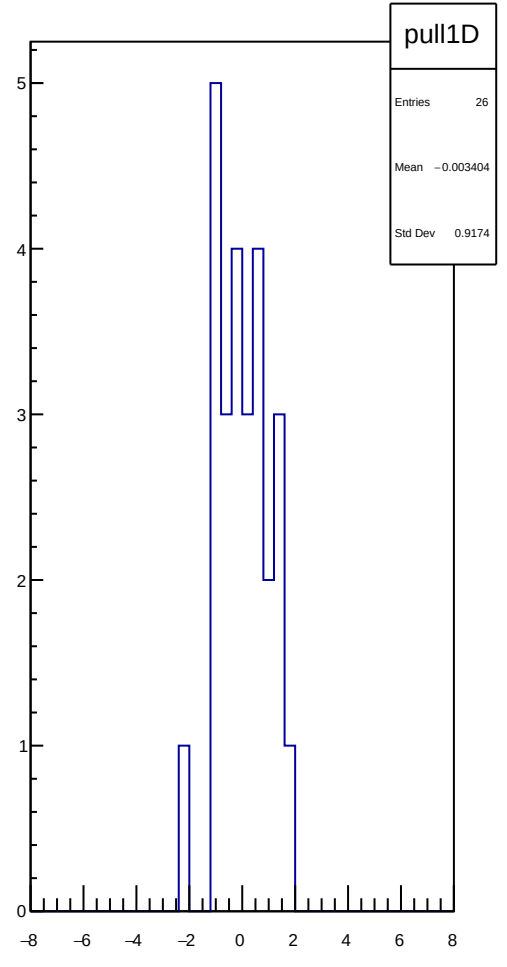

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3120 / 25
p0 1347 ± 1.908
1600
1550
1500
1450
1400
1350
1300
1250
1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

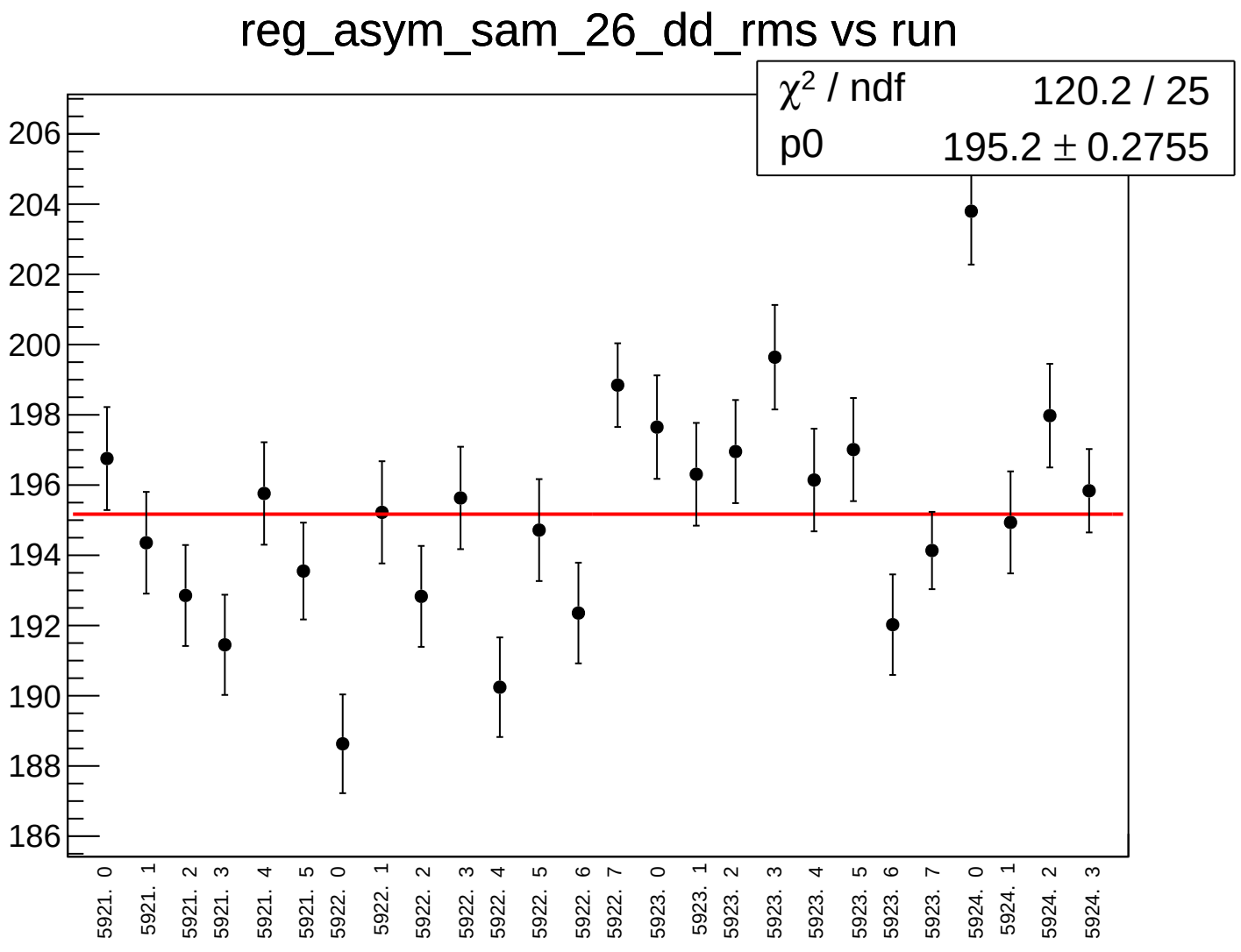

asym_sam_15_dd_mean vs run
χ² / ndf 29.82 / 25
p0 3289 ± 2708
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 465.1
Std Dev 453.7
2
1
0
−1
−2

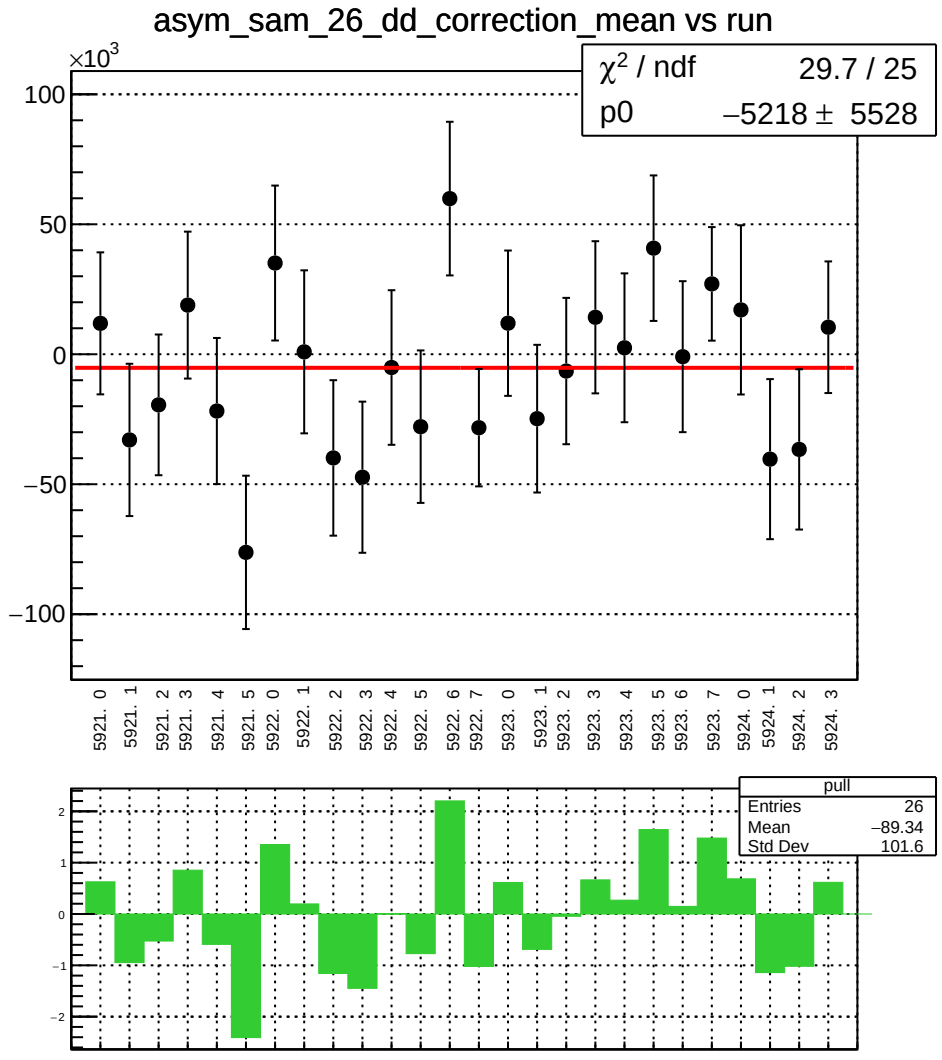

pull1D
Entries 26
Mean −0.002514
Std Dev 1.071
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

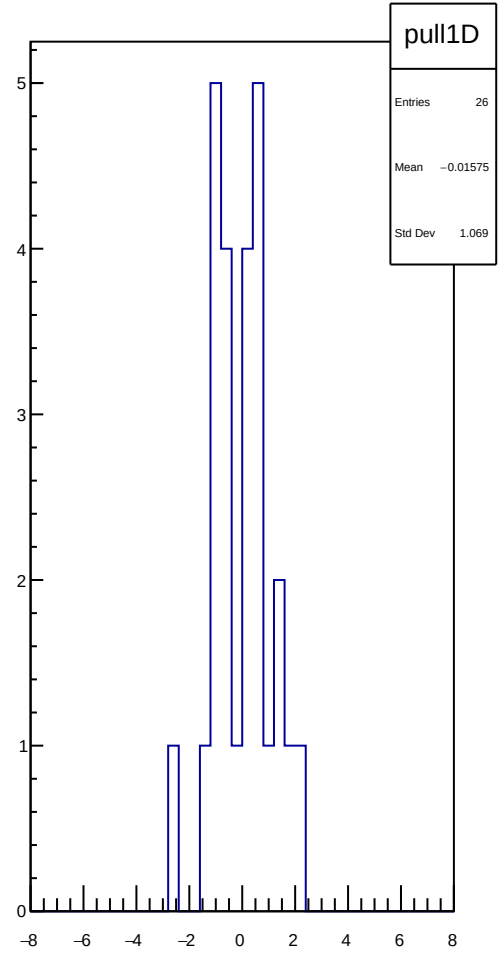

asym_sam_15_dd_rms vs run
χ² / ndf 3079 / 25
p0 1352 ± 1.915
1600
1550
1500
1450
1400
1350
1300
1250
1200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

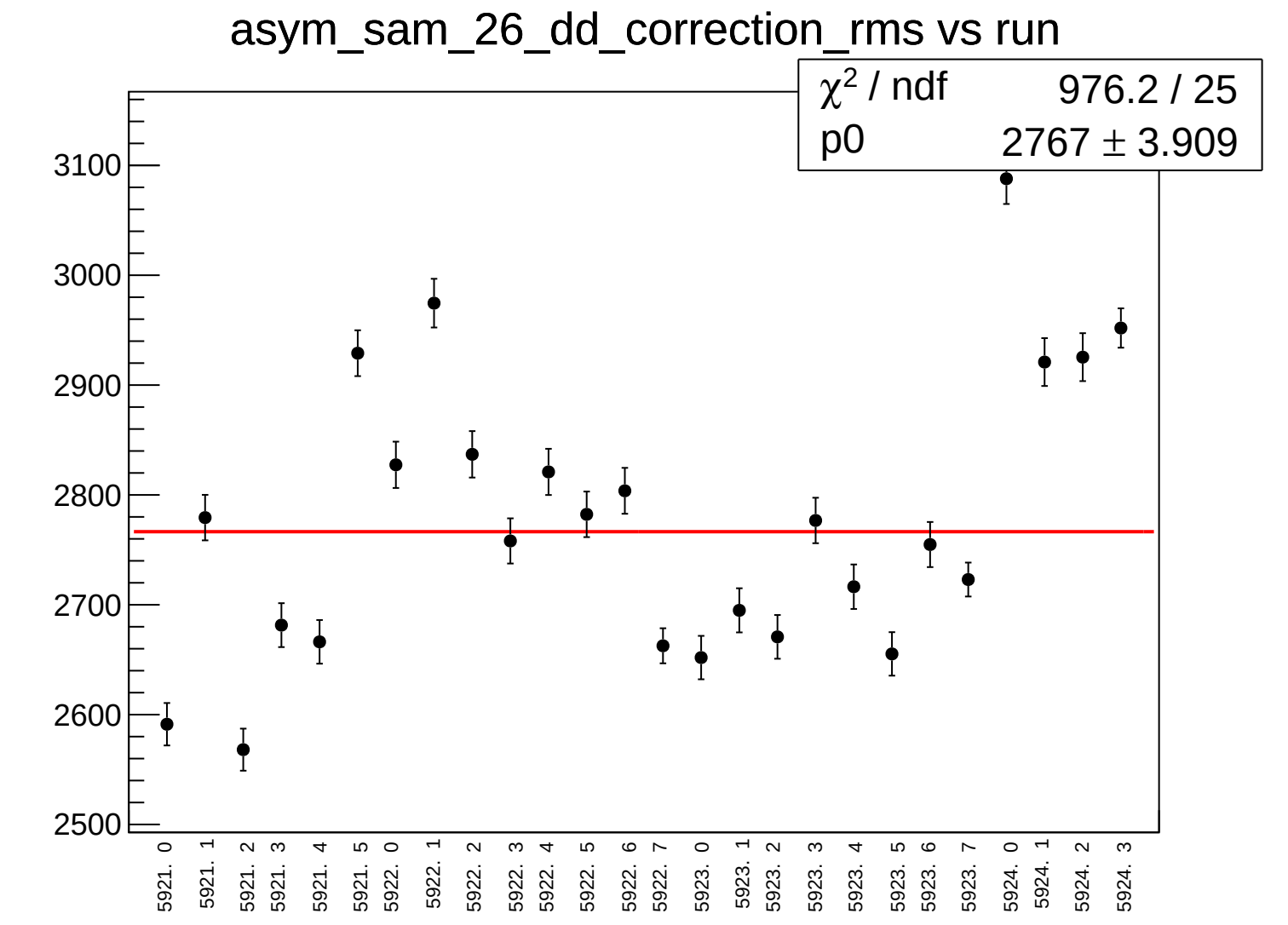

reg_asym_sam_26_dd_mean vs run
χ² / ndf 21.88 / 25
p0 326.7 ± 389.7
6000
4000
2000
0
−2000
−4000
−6000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.21
Std Dev 55.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2

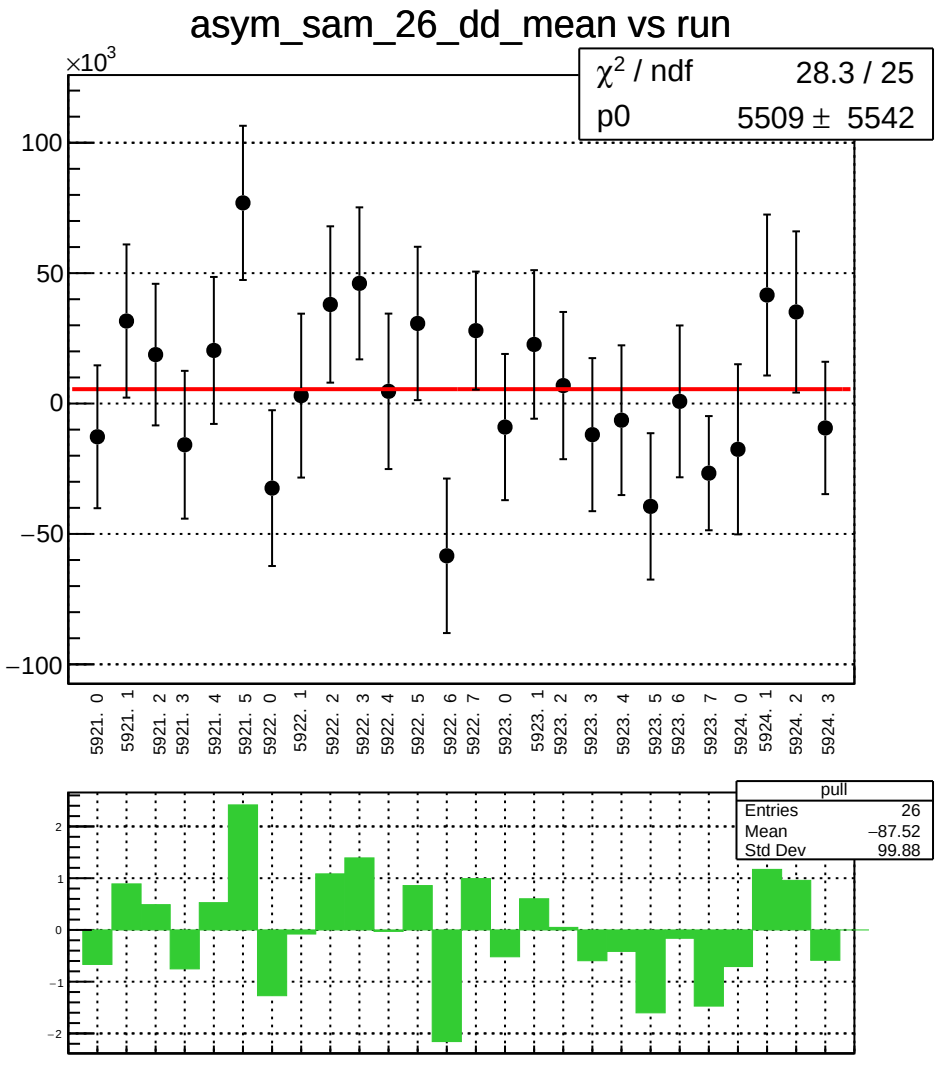

pull1D
Entries 26
Mean −0.003404
Std Dev 0.9174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

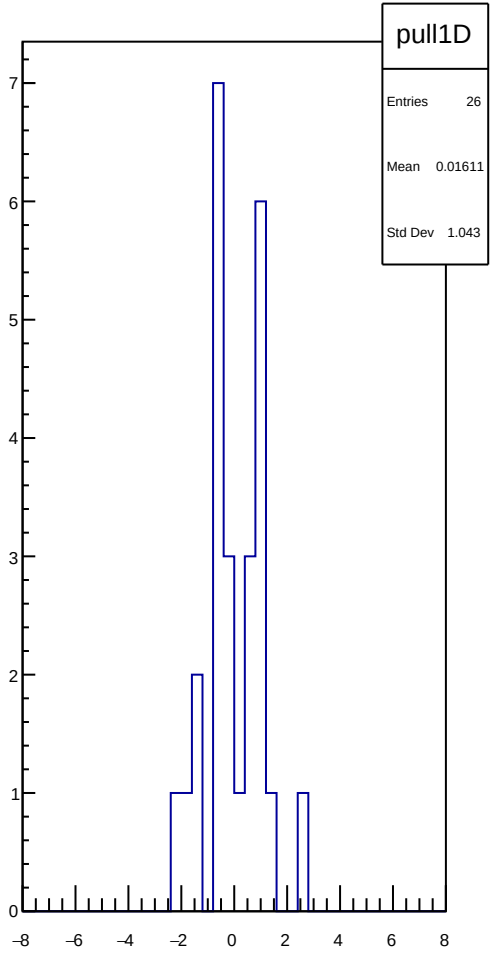

reg_asym_sam_26_dd_rms vs run
χ² / ndf 120.2 / 25
p0 195.2 ± 0.2755
206
204
202
200
198
196
194
192
190
188
186
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

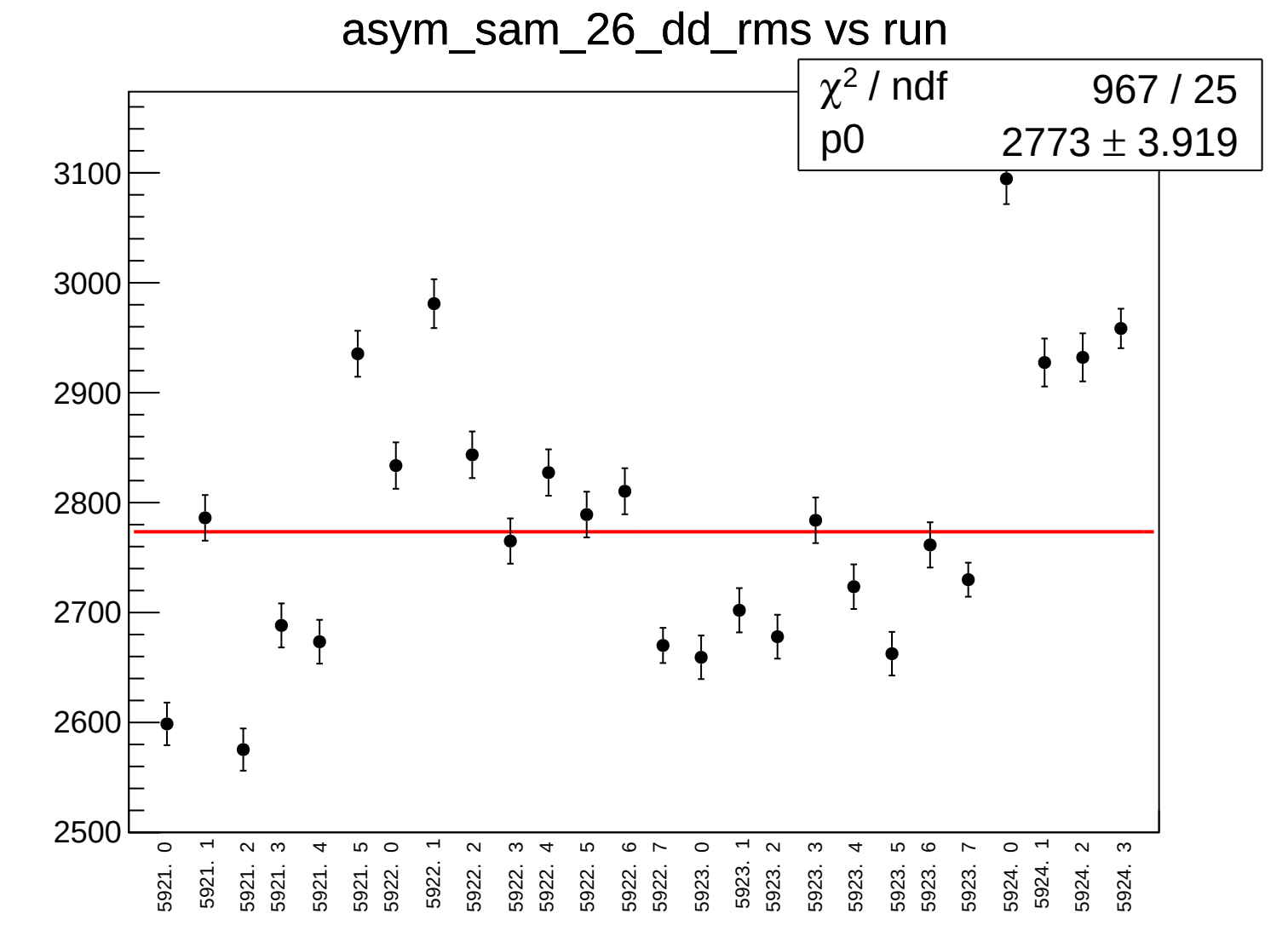

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 29.7 / 25
p0 −5218 ± 5528
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −89.34
Std Dev 101.6
2
1
0
−1
−2

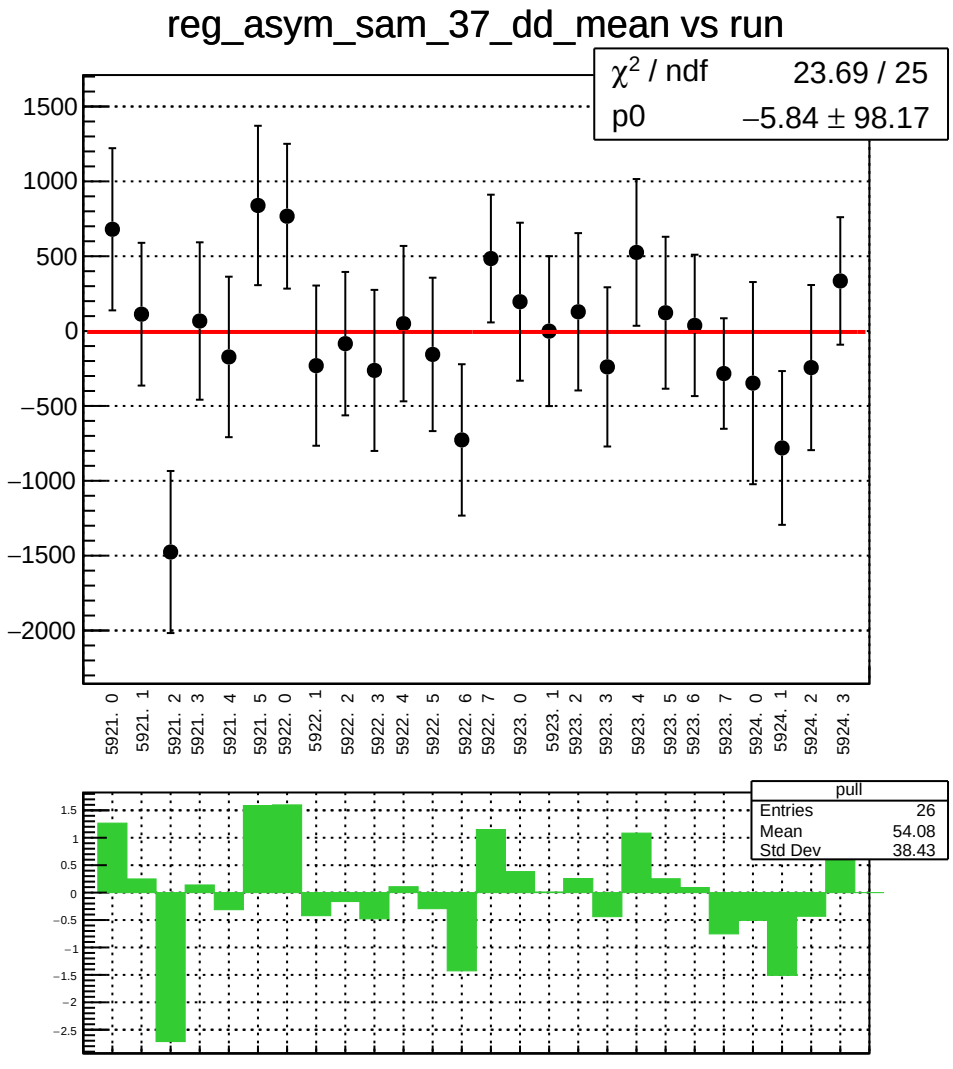

pull1D
Entries 26
Mean −0.01575
Std Dev 1.069
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

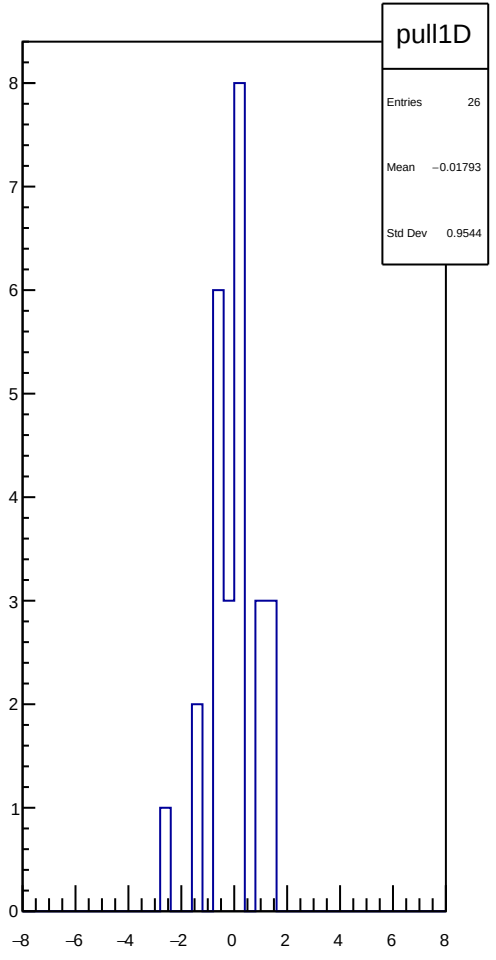

asym_sam_26_dd_correction_rms vs run
χ² / ndf 976.2 / 25
p0 2767 ± 3.909
3100
3000
2900
2800
2700
2600
2500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

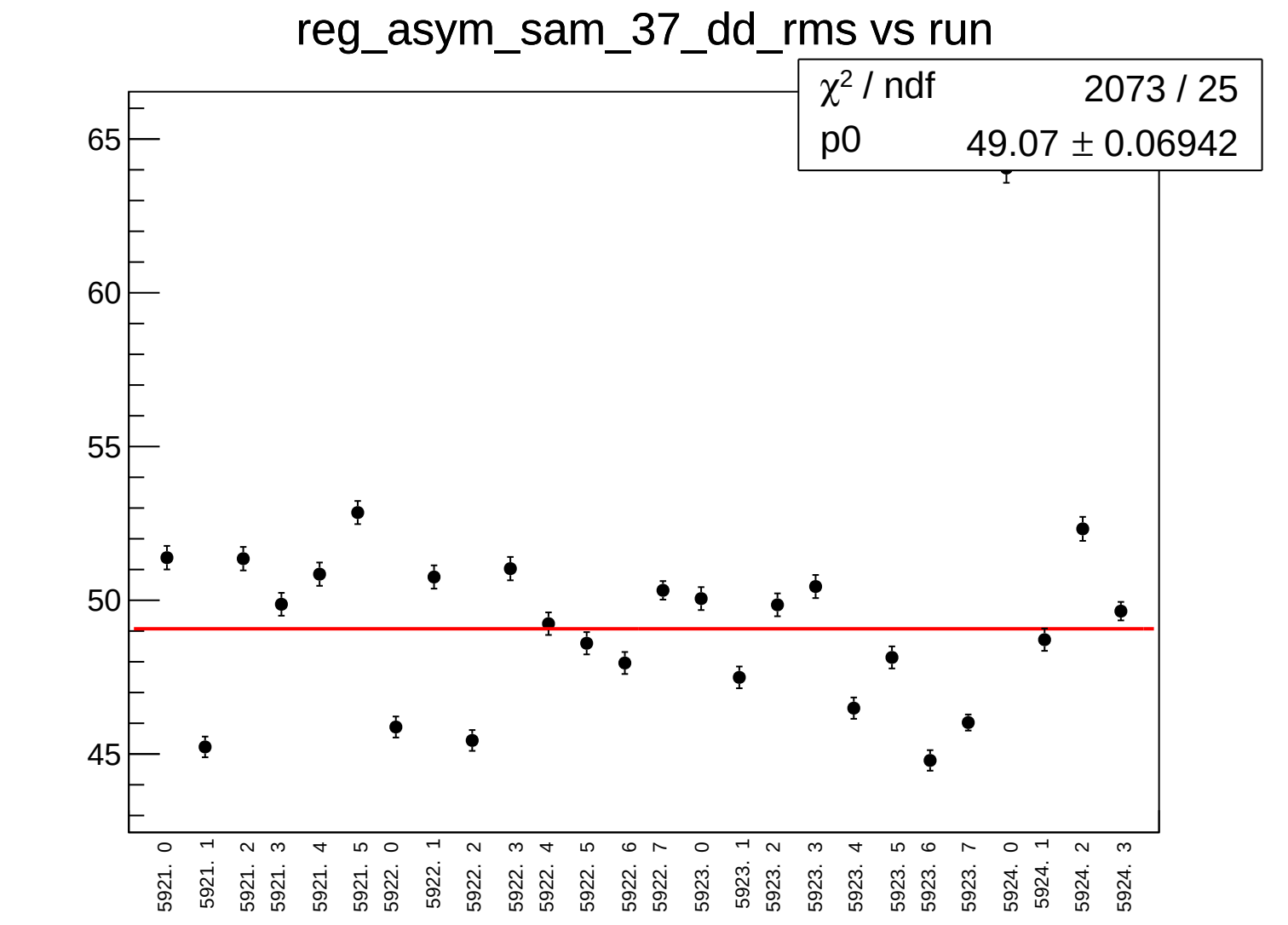

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 28.3 / 25
p0 5509 ± 5542
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −87.52
Std Dev 99.88
2
1
0
−1
−2

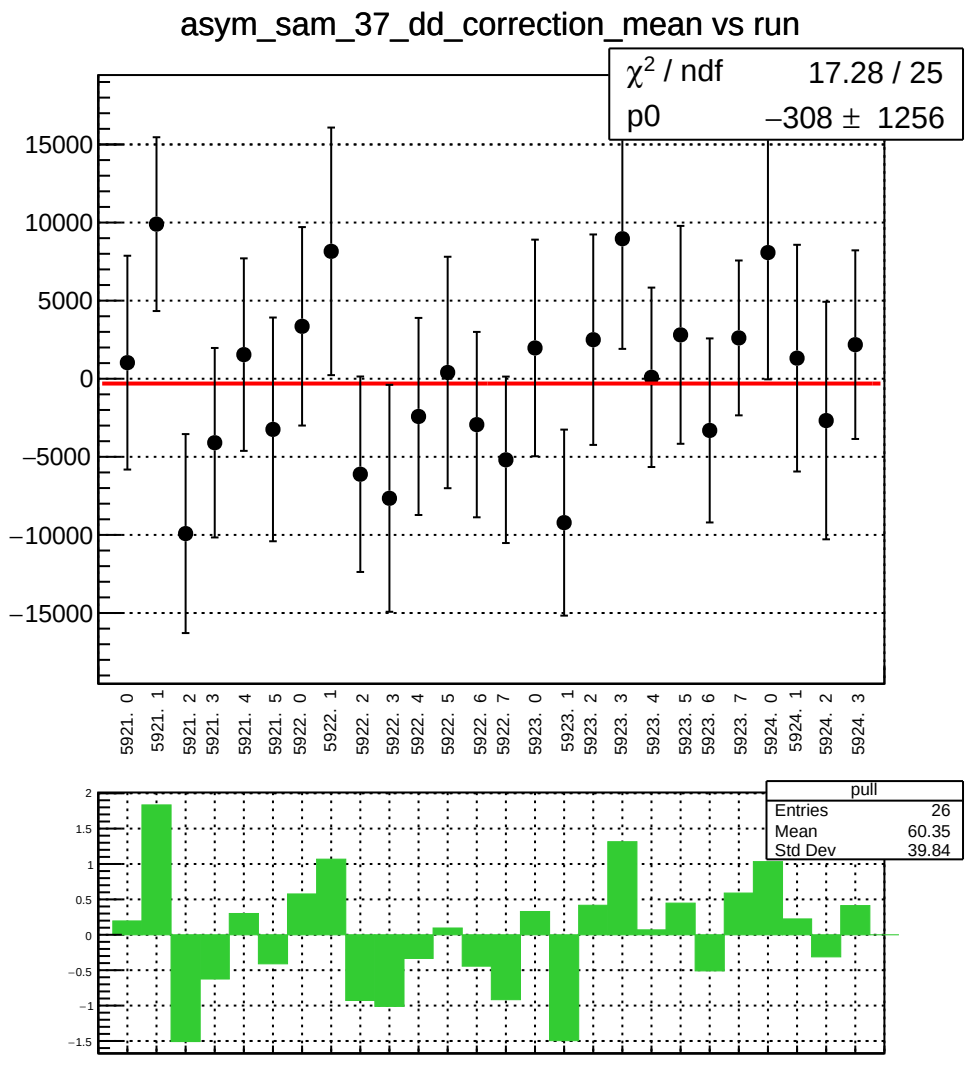

pull1D
Entries 26
Mean 0.01611
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

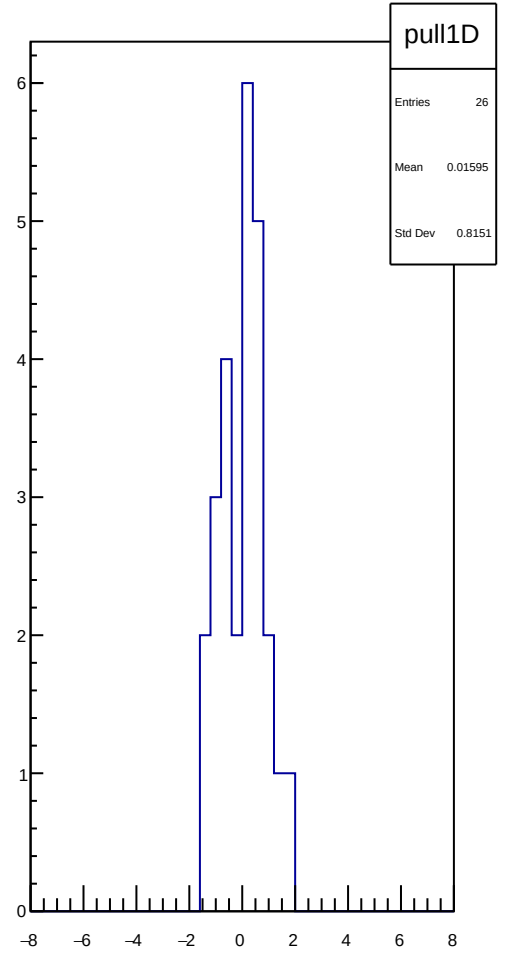

asym_sam_26_dd_rms vs run
χ² / ndf 967 / 25
p0 2773 ± 3.919
3100
3000
2900
2800
2700
2600
2500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

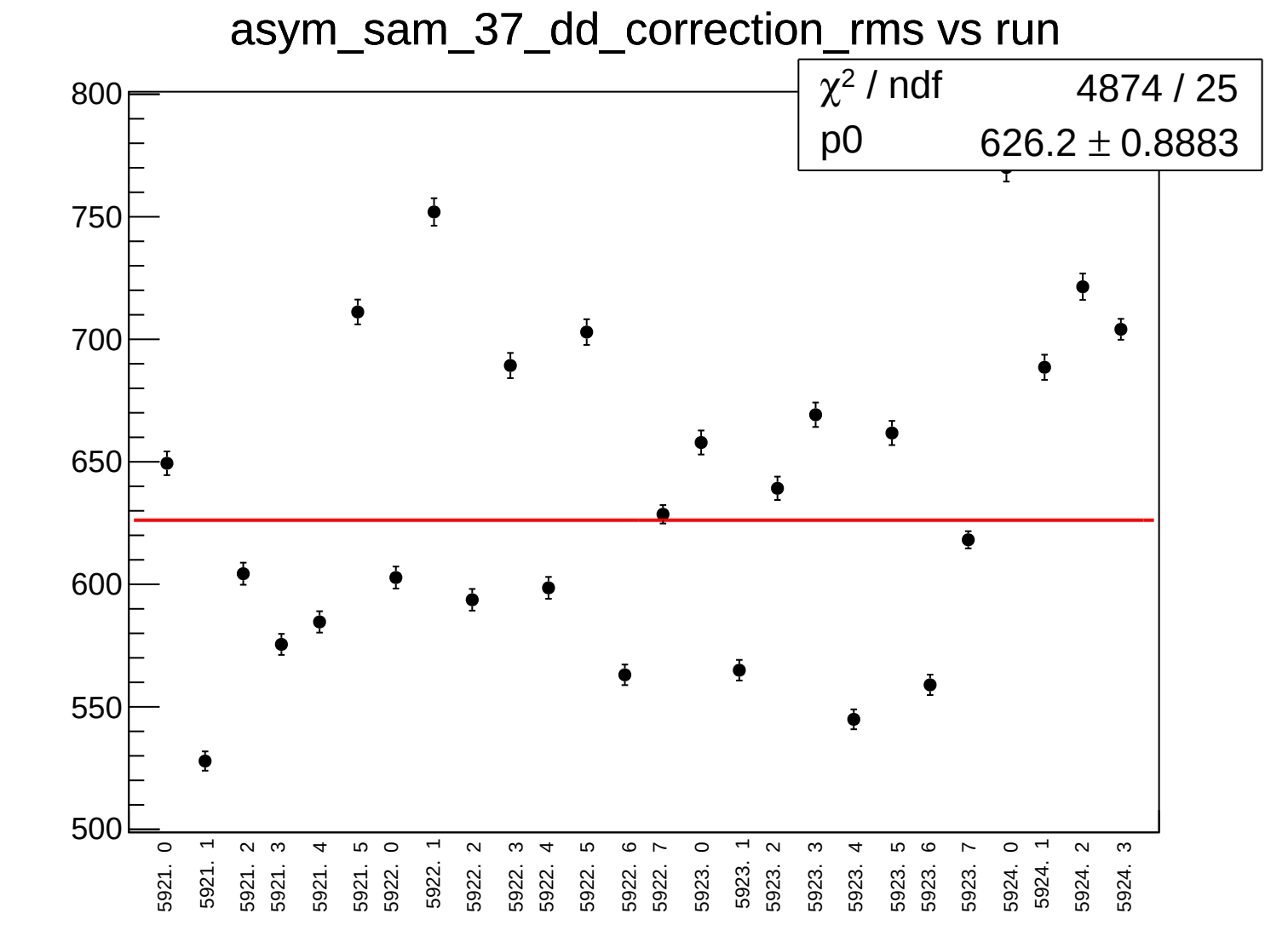

reg_asym_sam_37_dd_mean vs run
χ² / ndf 23.69 / 25
p0 −5.84 ± 98.17
1500
1000
500
0
−500
−1000
−1500
−2000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 54.08
Std Dev 38.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

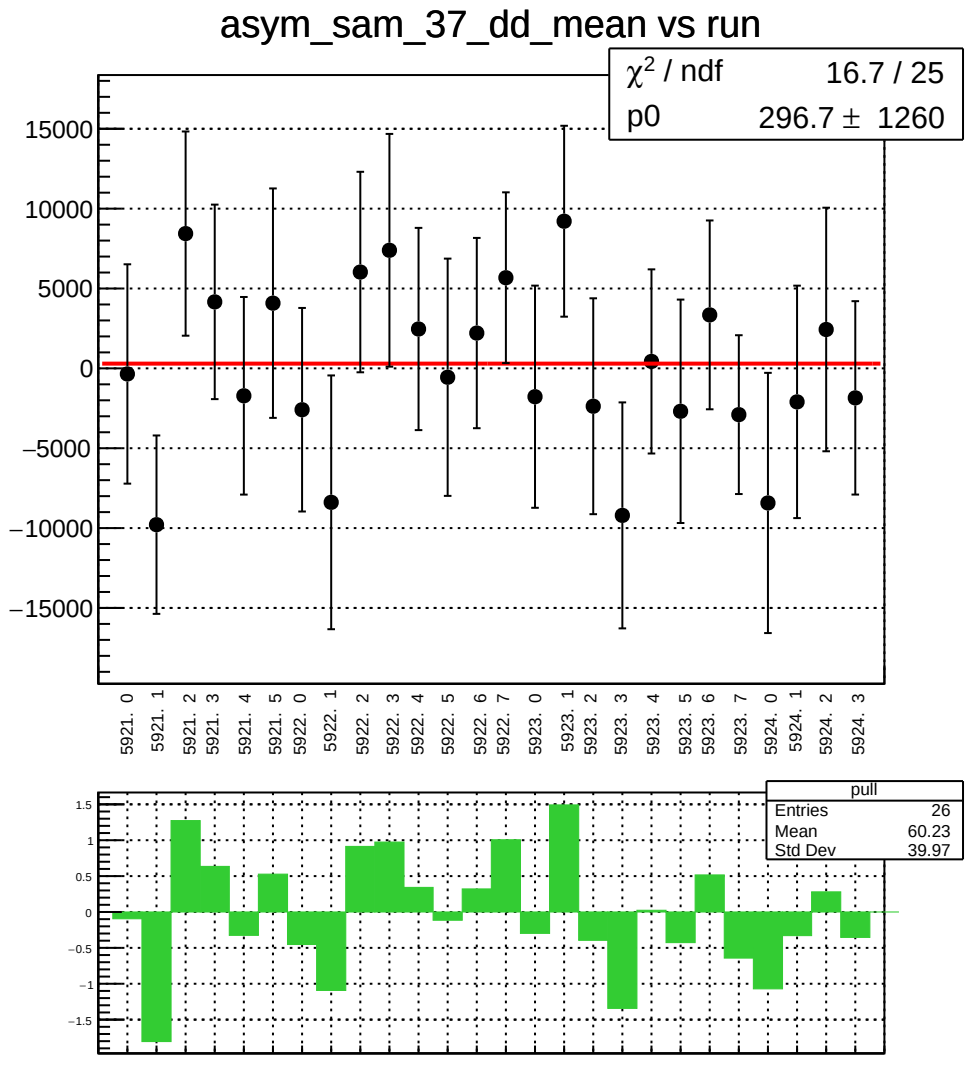

pull1D
Entries 26
Mean −0.01793
Std Dev 0.9544
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

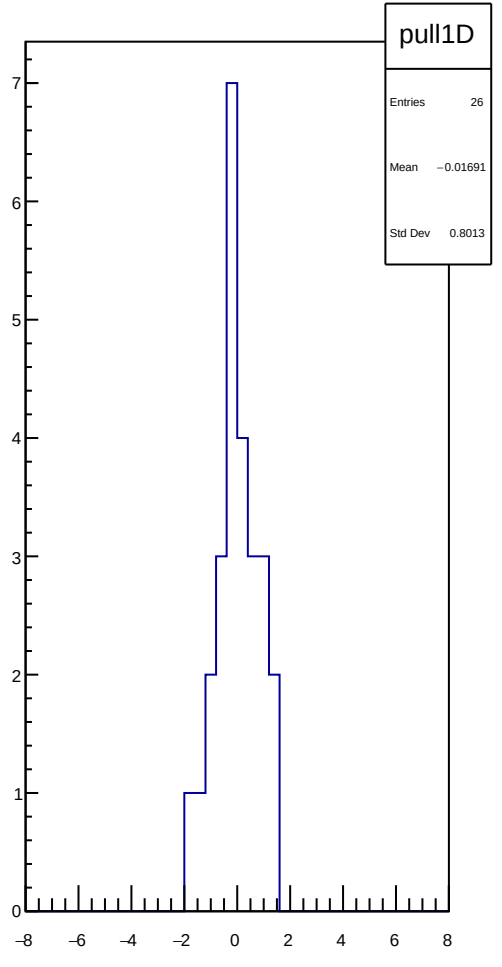

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2073 / 25
p0 49.07 ± 0.06942
65
60
55
50
45
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

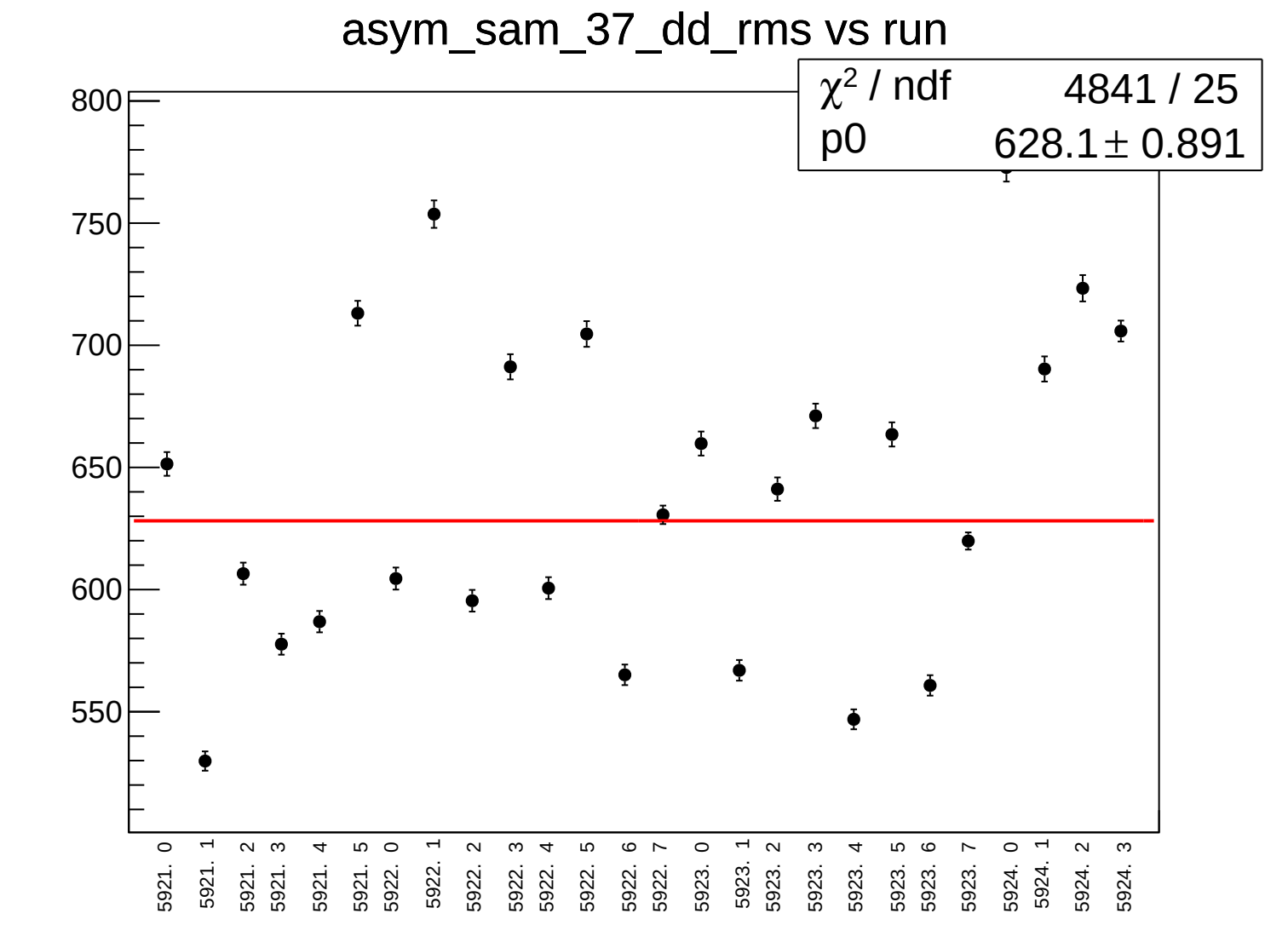

asym_sam_37_dd_correction_mean vs run
χ² / ndf 17.28 / 25
p0 −308 ± 1256
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 60.35
Std Dev 39.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

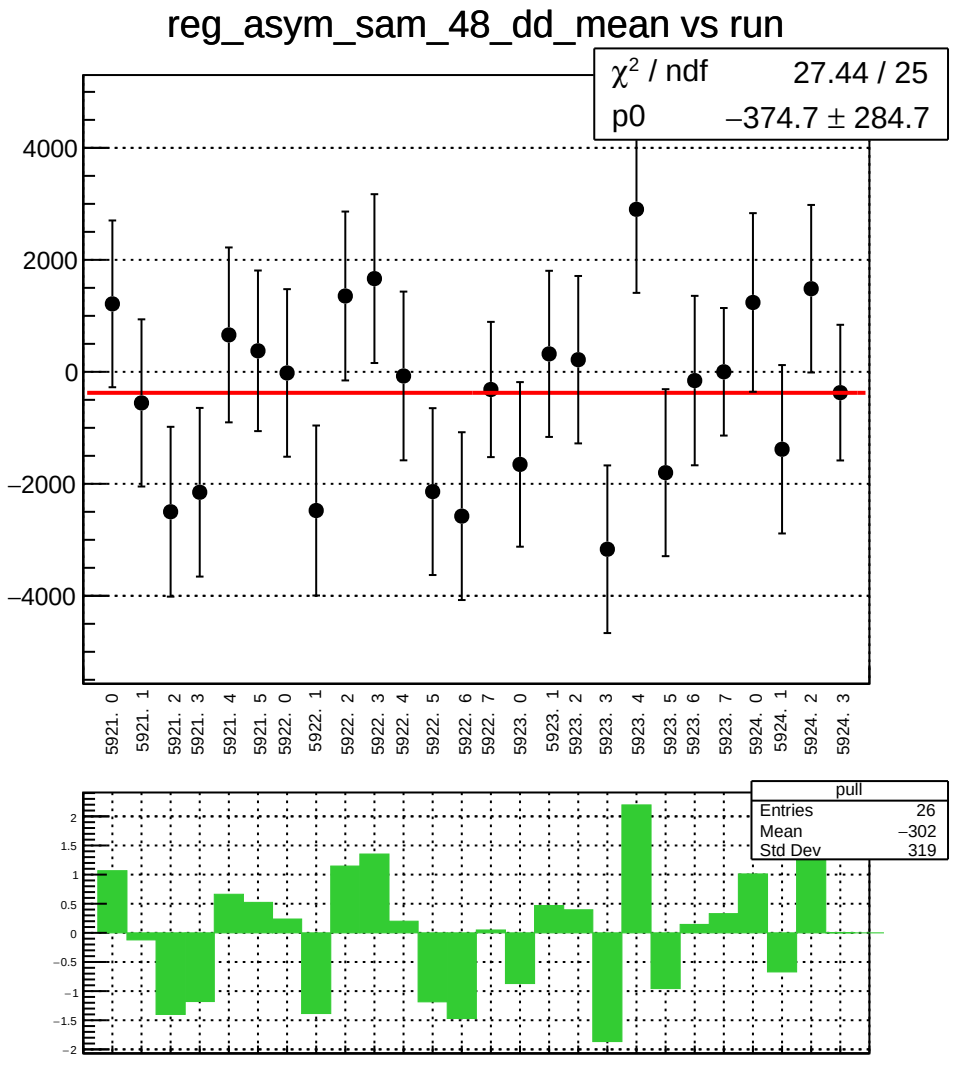

pull1D
Entries 26
Mean 0.01595
Std Dev 0.8151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

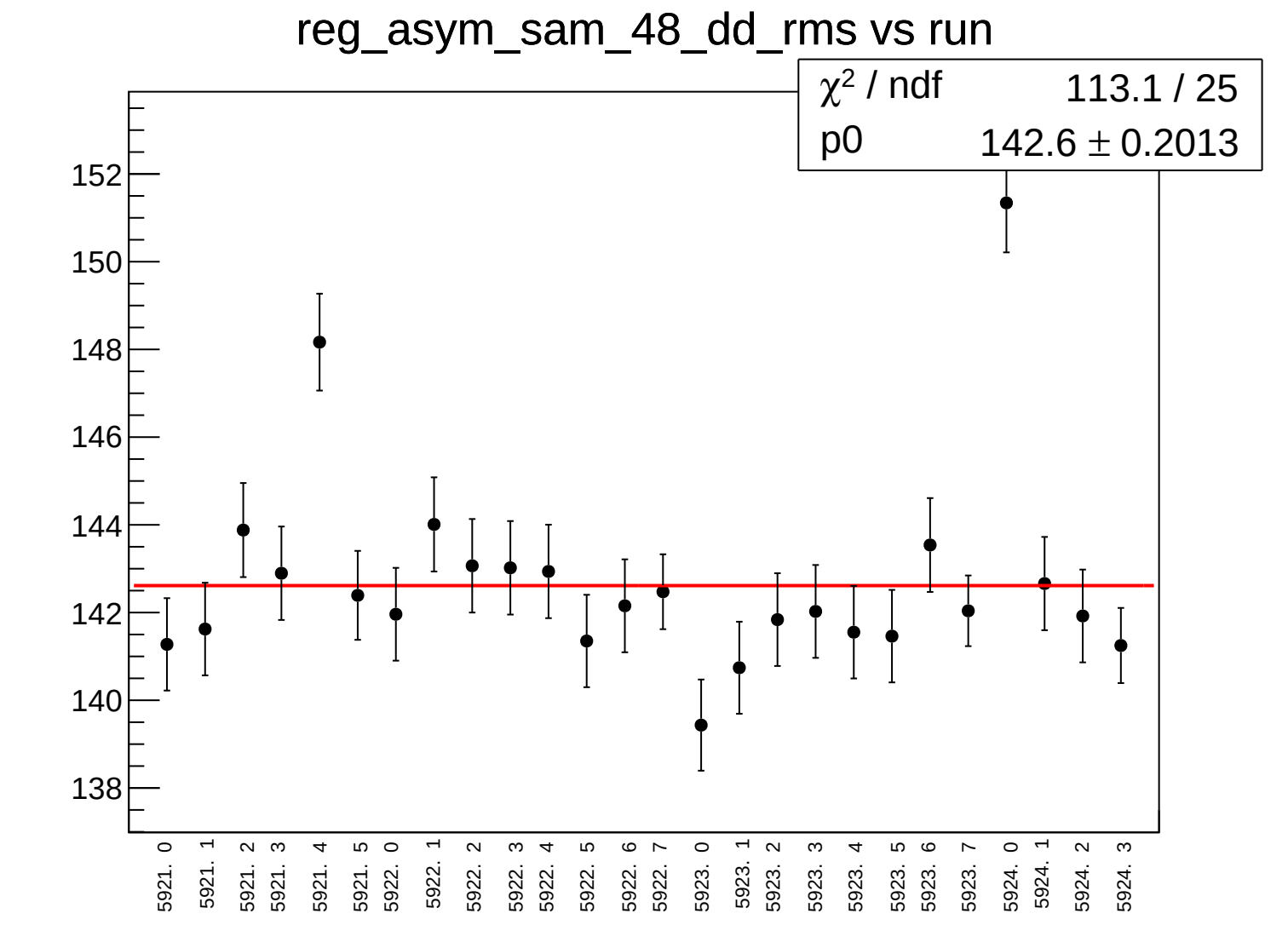

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4874 / 25
p0 626.2 ± 0.8883
800
750
700
650
600
550
500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

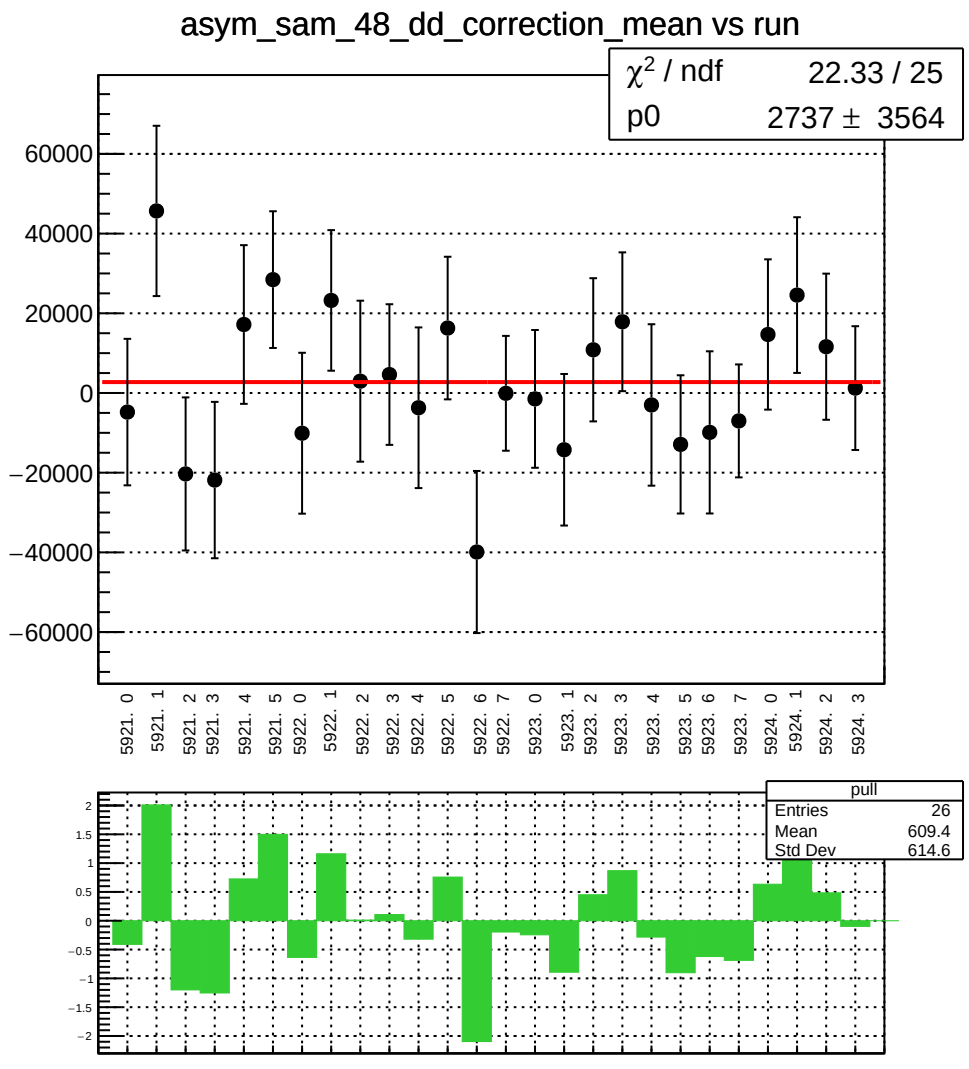

asym_sam_37_dd_mean vs run
χ² / ndf 16.7 / 25
p0 296.7 ± 1260
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 60.23
Std Dev 39.97
1.5
1
0.5
0
−0.5
−1
−1.5

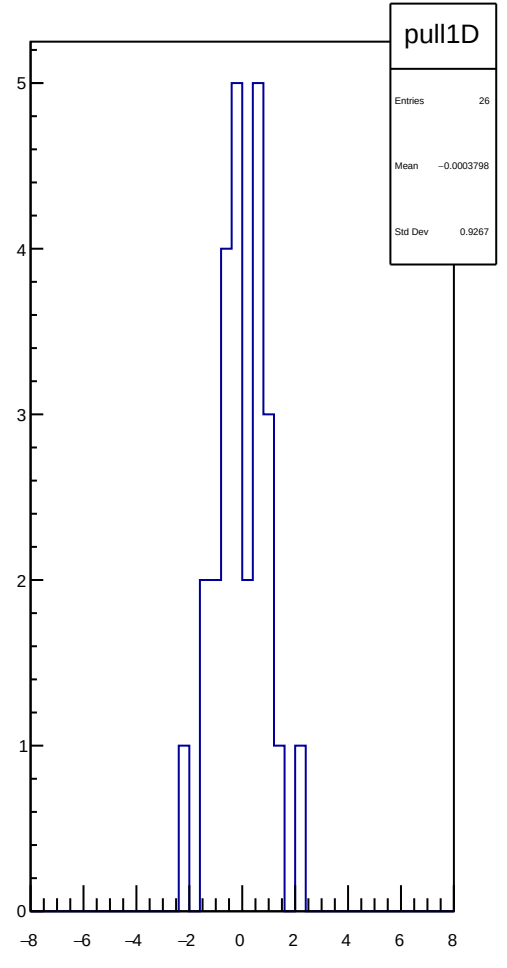

pull1D
Entries 26
Mean −0.01691
Std Dev 0.8013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

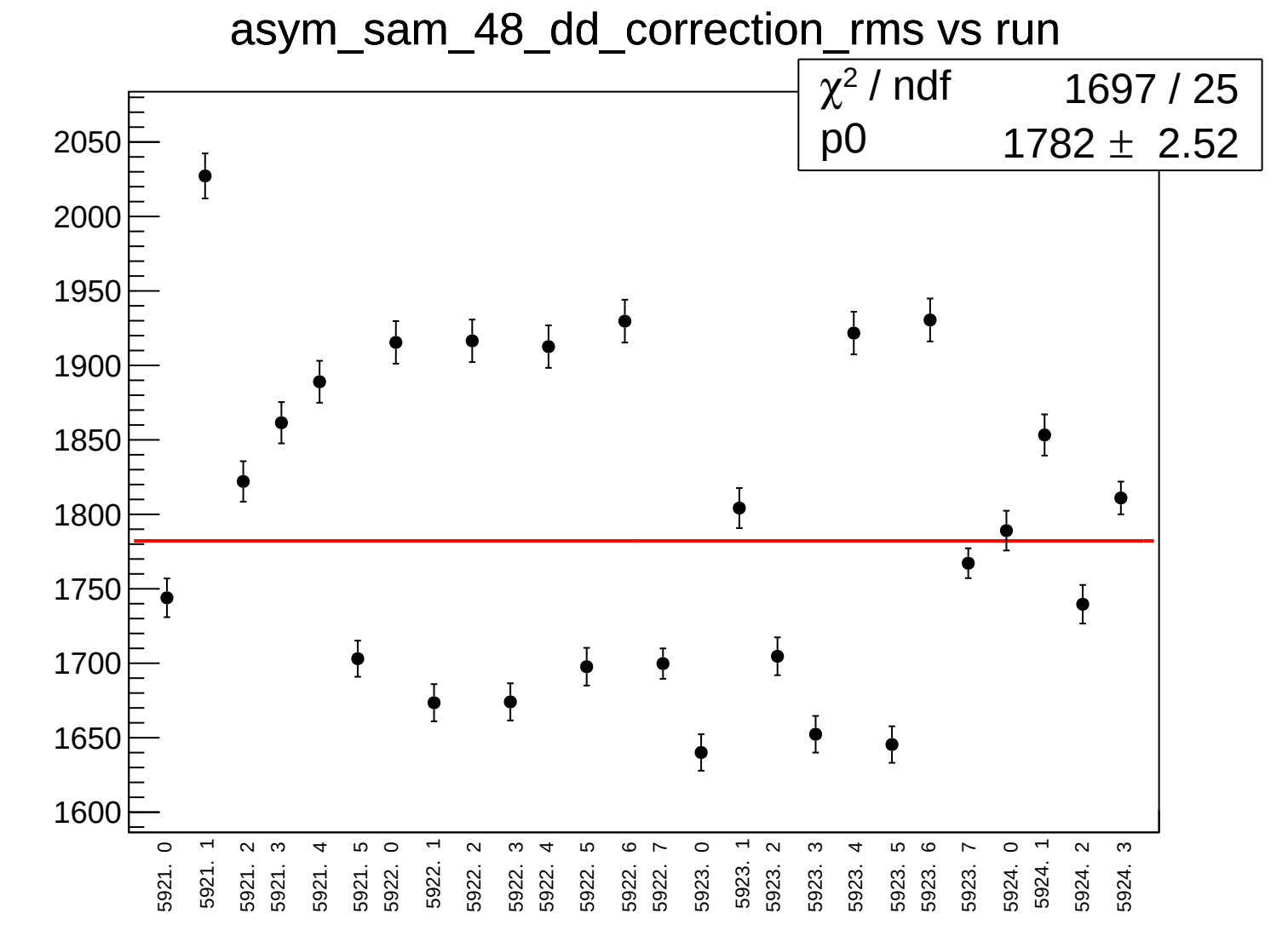

asym_sam_37_dd_rms vs run
χ² / ndf 4841 / 25
p0 628.1 ± 0.891
800
750
700
650
600
550
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

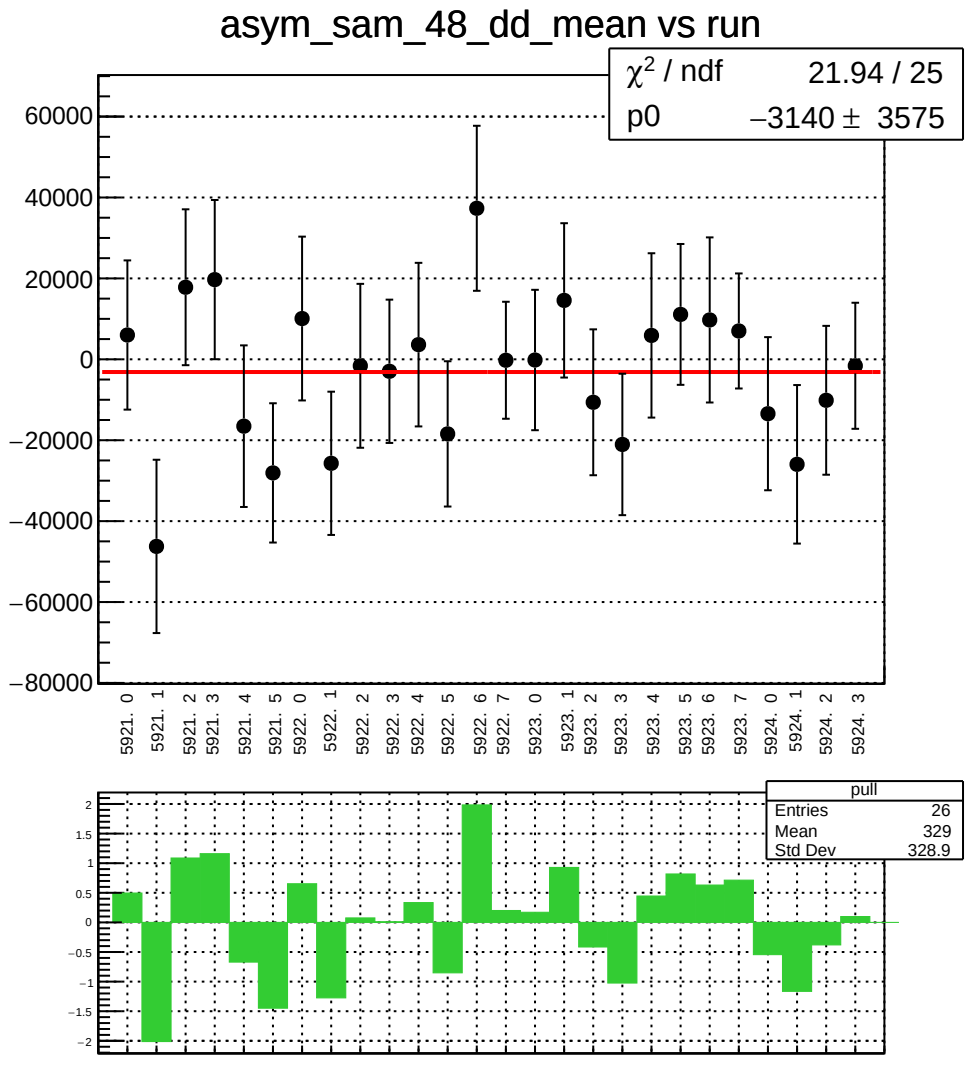

reg_asym_sam_48_dd_mean vs run
χ² / ndf 27.44 / 25
p0 −374.7 ± 284.7
4000
2000
0
−2000
−4000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −302
Std Dev 319
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.002701
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

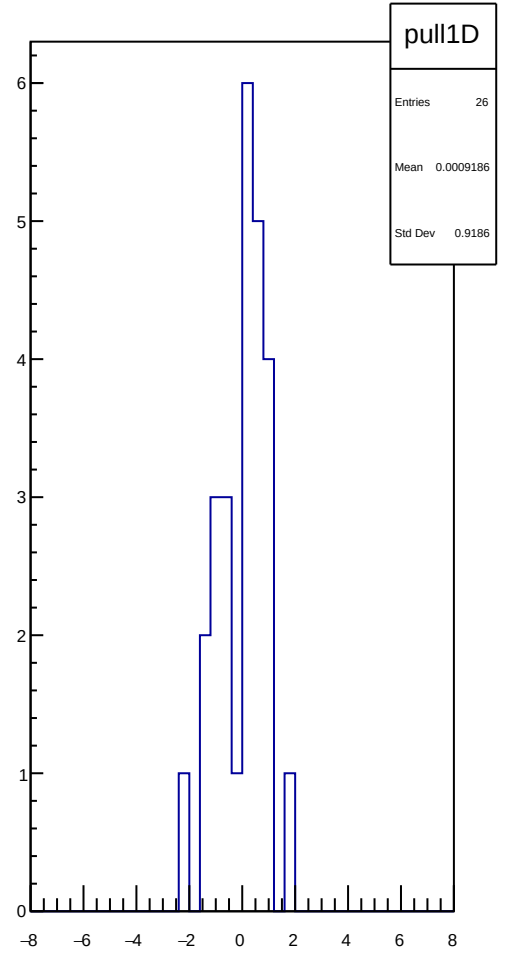

reg_asym_sam_48_dd_rms vs run
χ² / ndf 113.1 / 25
p0 142.6 ± 0.2013
152
150
148
146
144
142
140
138
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

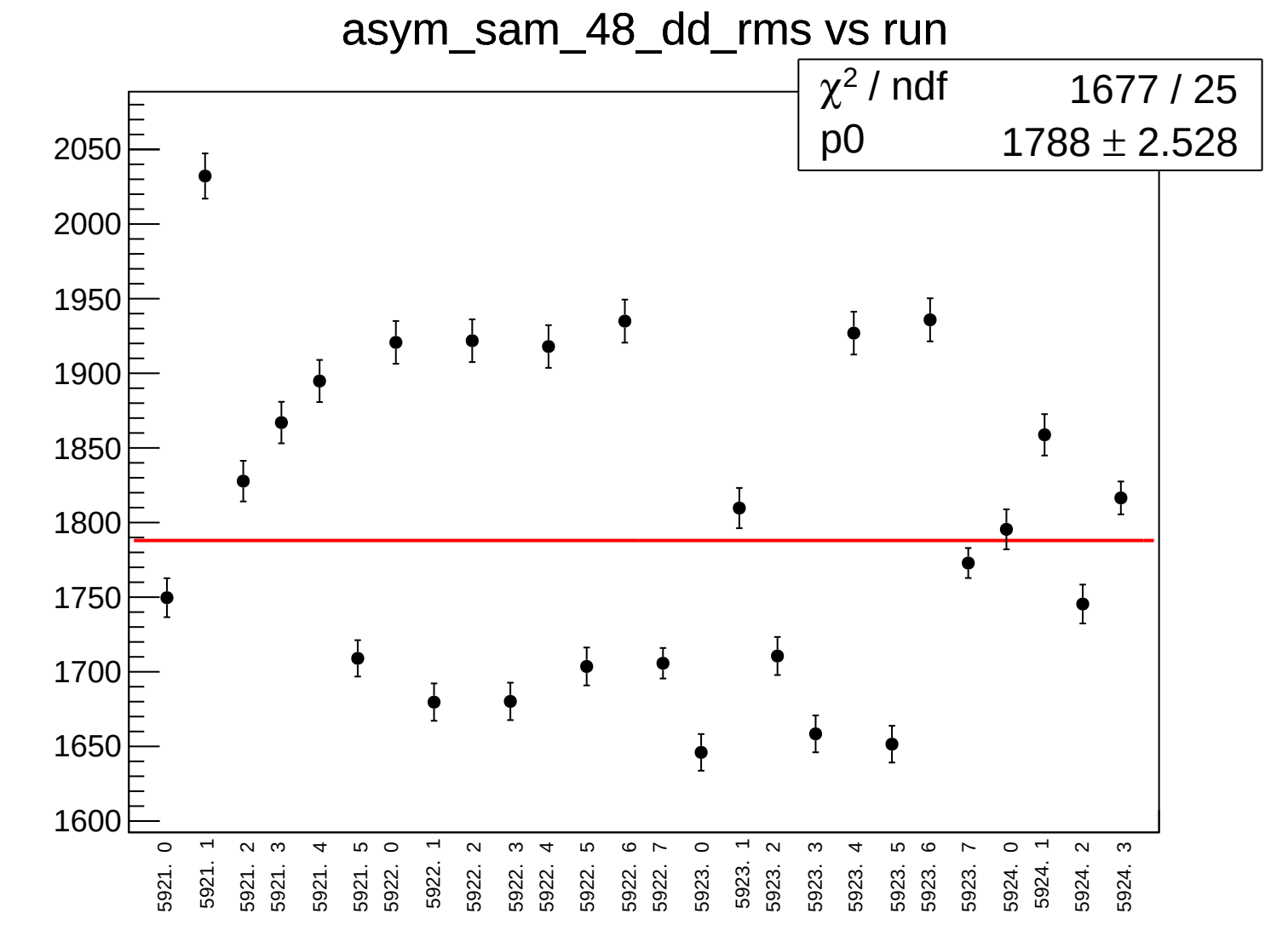

asym_sam_48_dd_correction_mean vs run
χ² / ndf 22.33 / 25
p0 2737 ± 3564
60000
40000
20000
0
−20000
−40000
−60000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 609.4
Std Dev 614.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

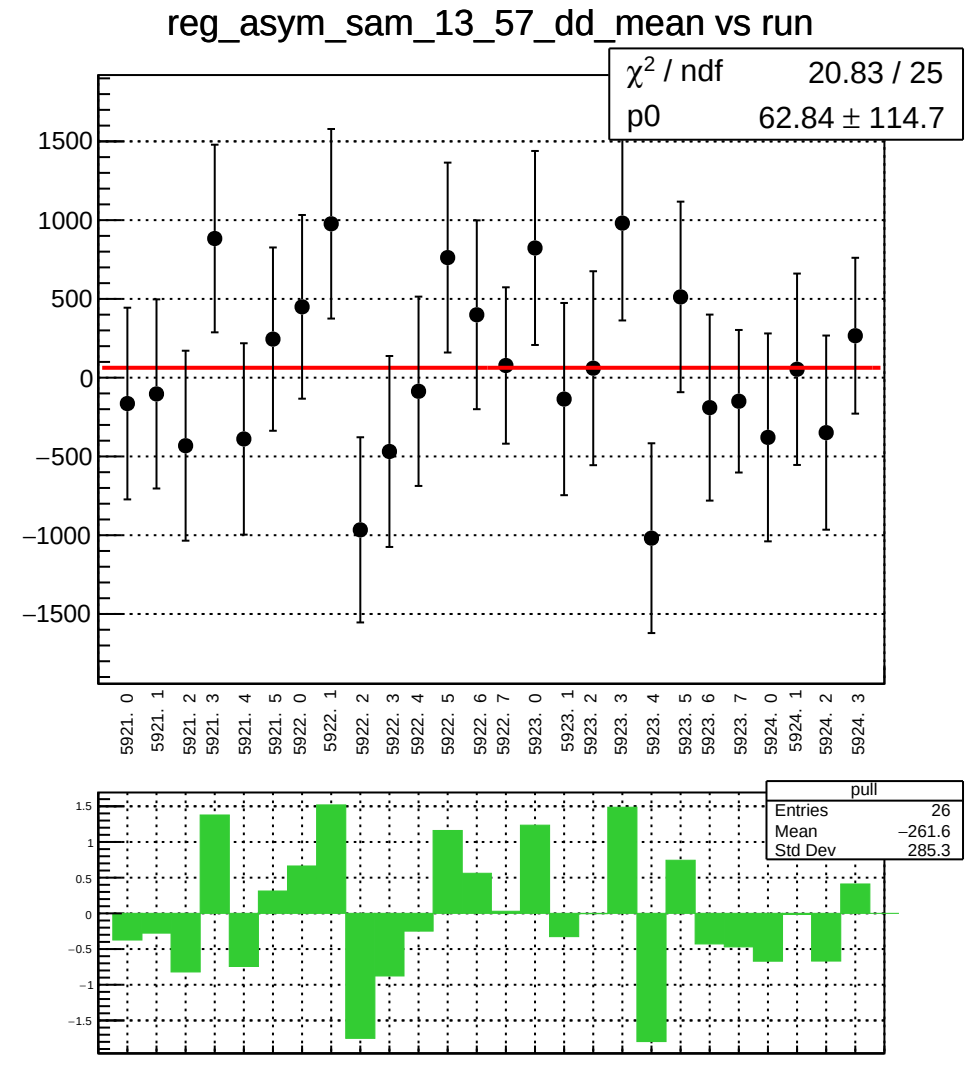

pull1D
Entries 26
Mean −0.0003798
Std Dev 0.9267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

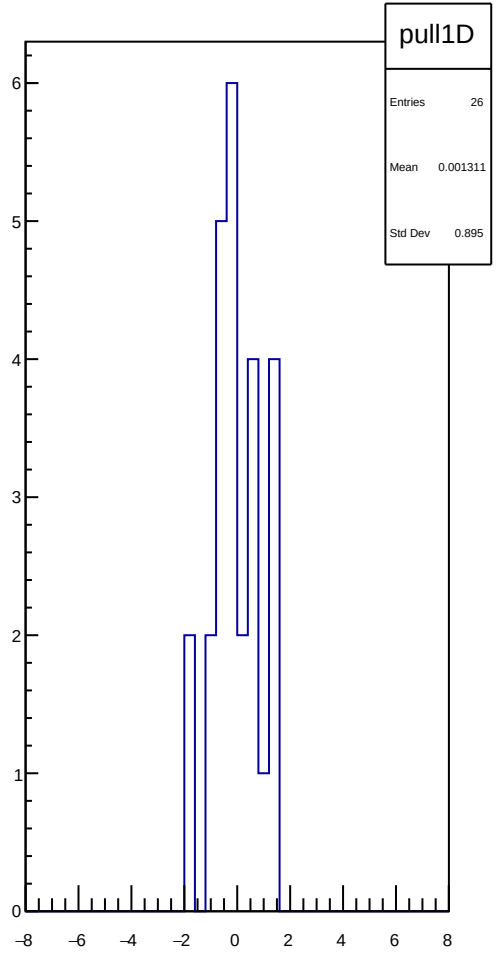

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1697 / 25
p0 1782 ± 2.52
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

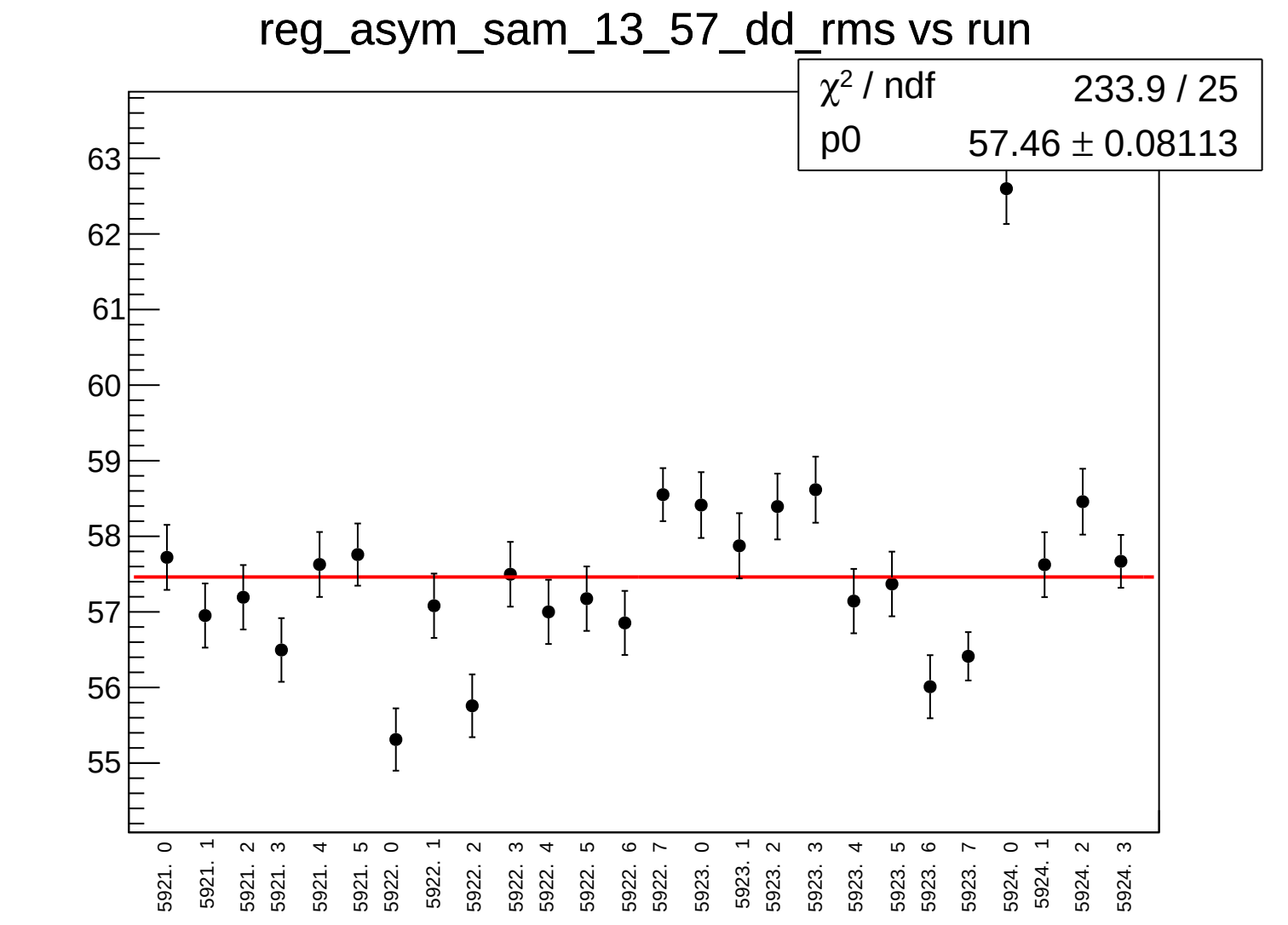

asym_sam_48_dd_mean vs run
χ² / ndf 21.94 / 25
p0 −3140 ± 3575
60000
40000
20000
0
−20000
−40000
−60000
−80000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 329
Std Dev 328.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

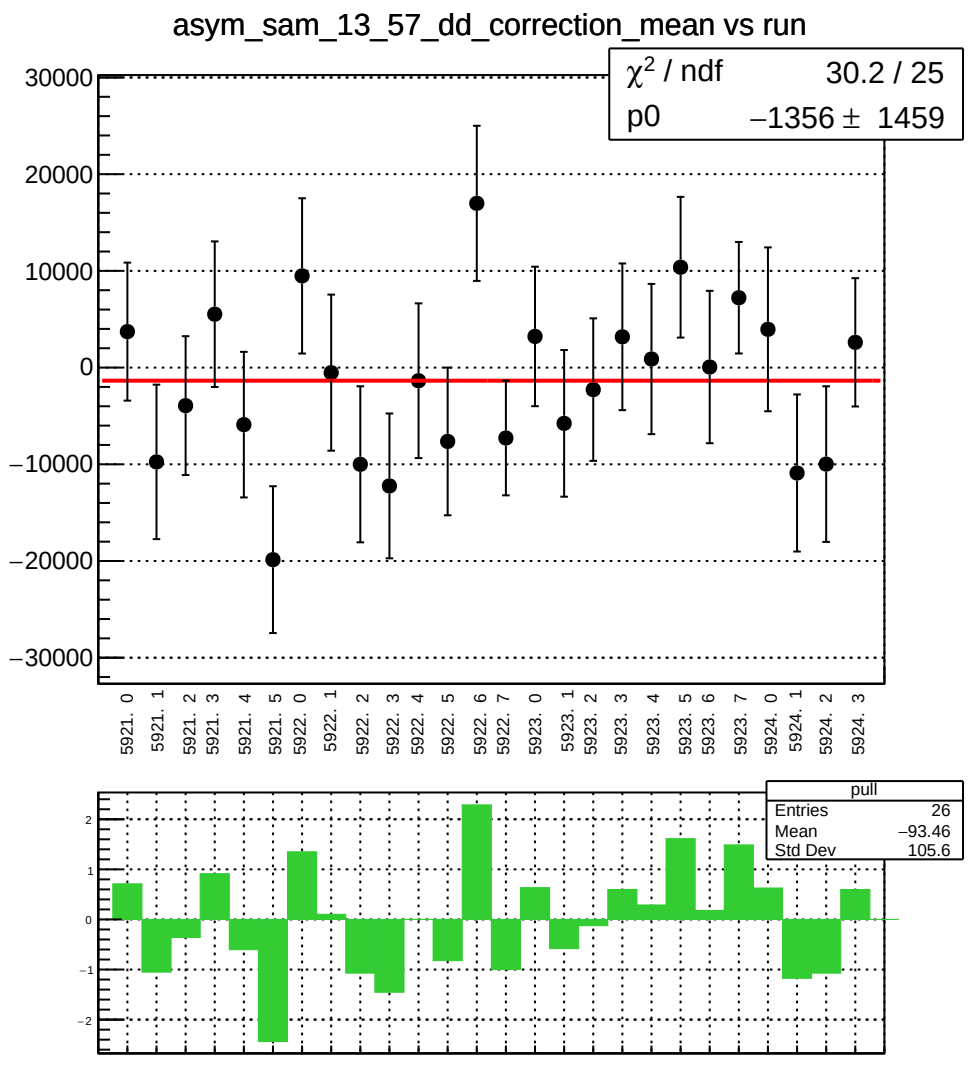

pull1D
Entries 26
Mean 0.0009186
Std Dev 0.9186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

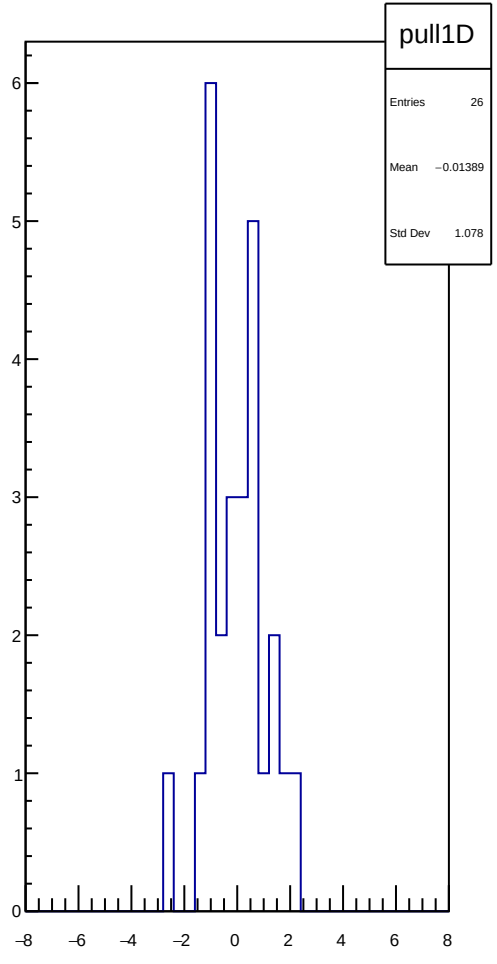

asym_sam_48_dd_rms vs run
χ² / ndf 1677 / 25
p0 1788 ± 2.528
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

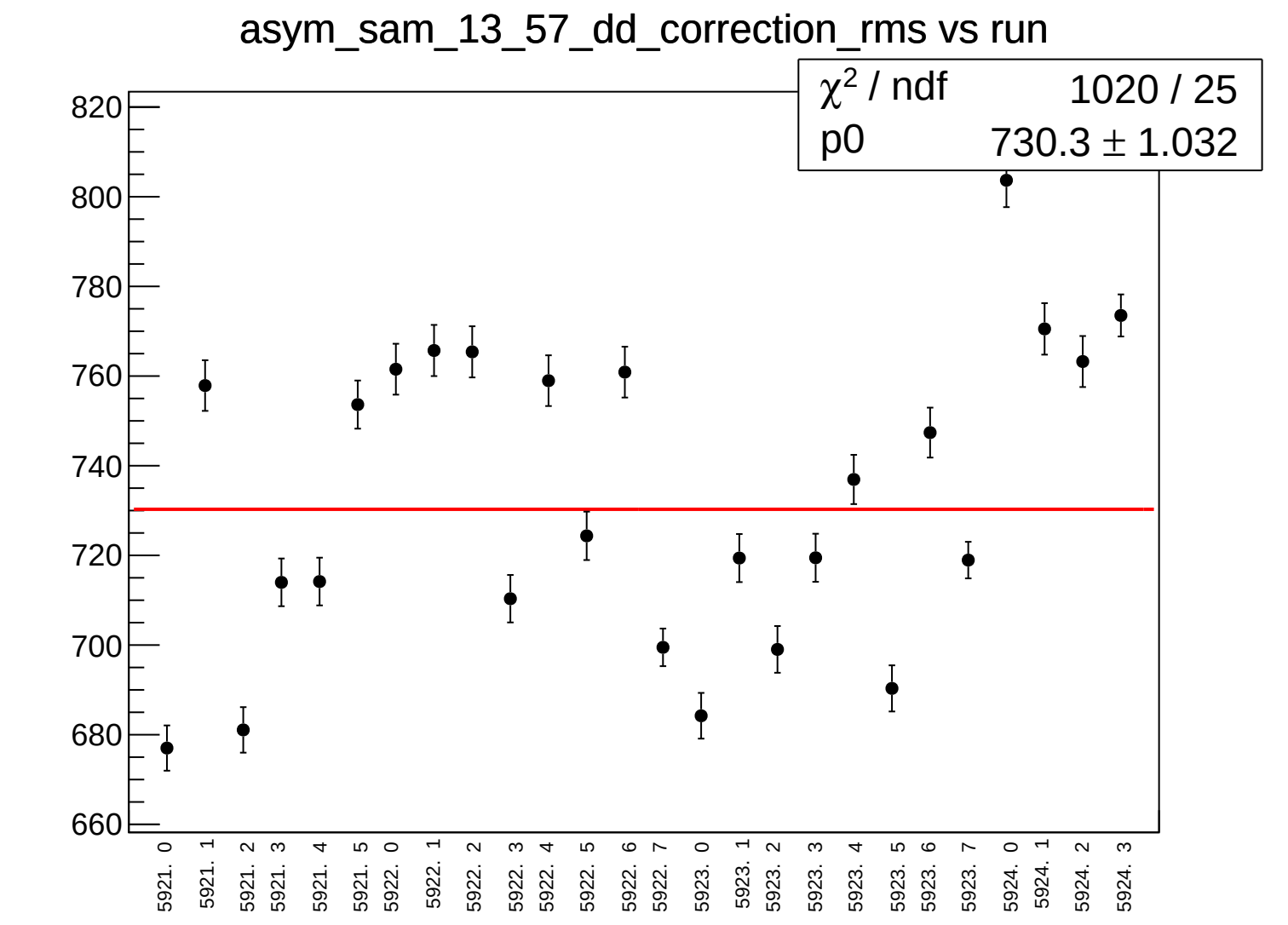

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 20.83 / 25
p0 62.84 ± 114.7
1500
1000
500
0
−500
−1000
−1500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −261.6
Std Dev 285.3
1.5
1
0.5
0
−0.5
−1
−1.5

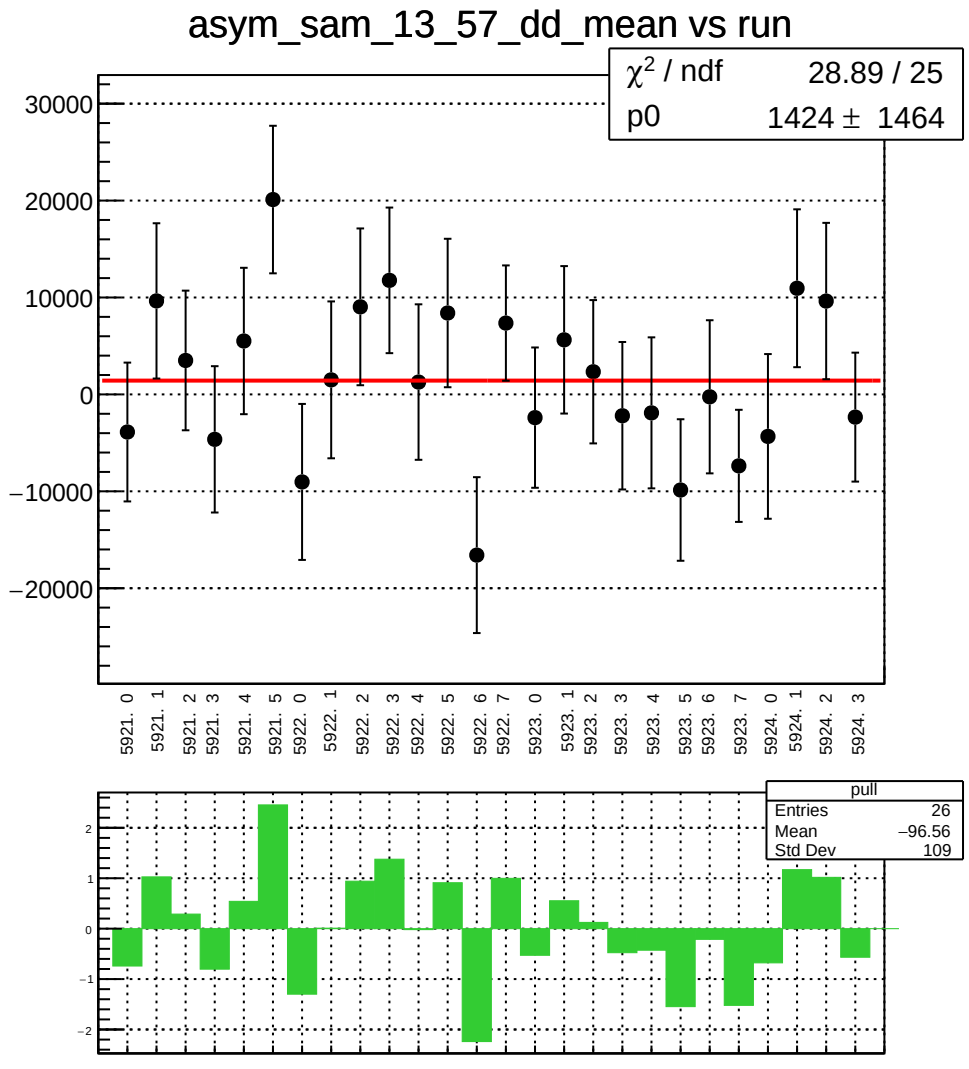

pull1D
Entries 26
Mean 0.001311
Std Dev 0.895
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

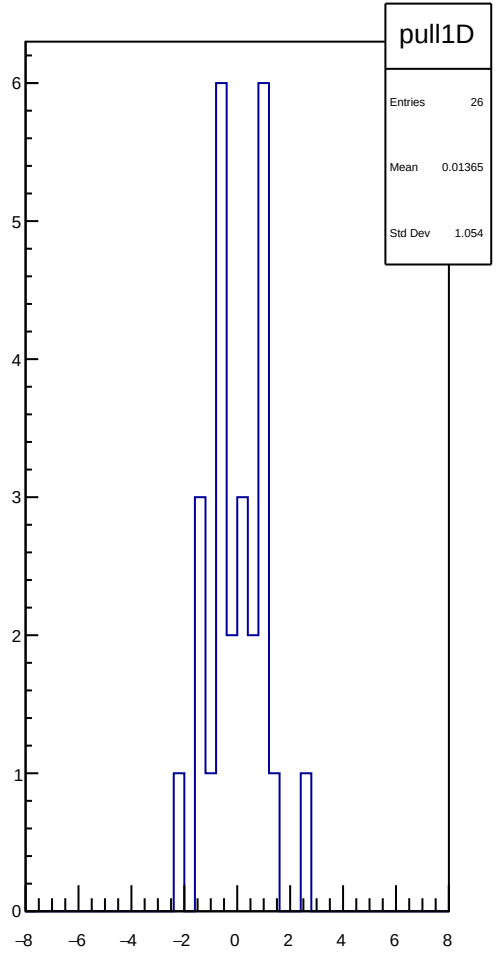

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 233.9 / 25
p0 57.46 ± 0.08113
63
62
61
60
59
58
57
56
55
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

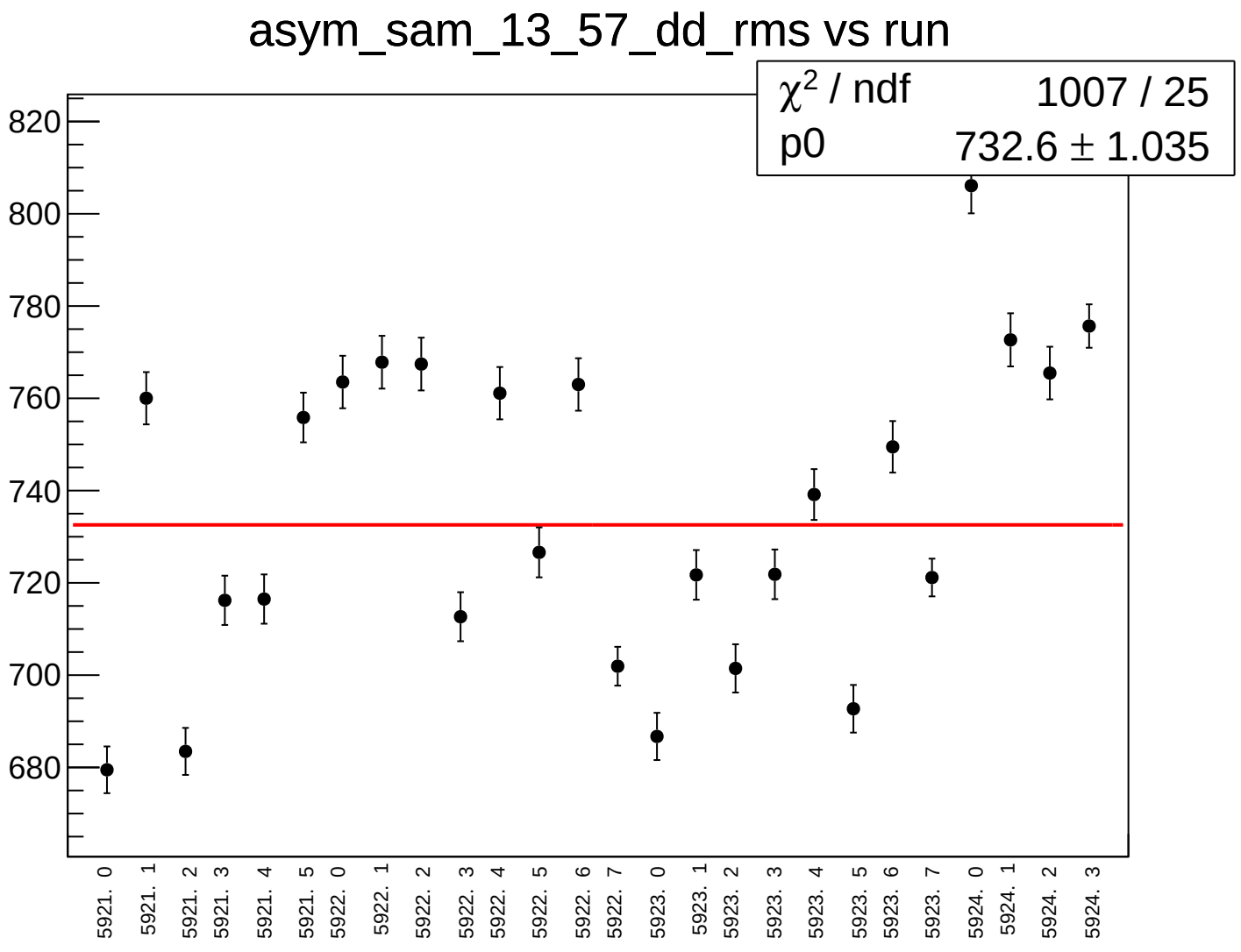

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 30.2 / 25
p0 −1356 ± 1459
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −93.46
Std Dev 105.6
2
1
0
−1
−2

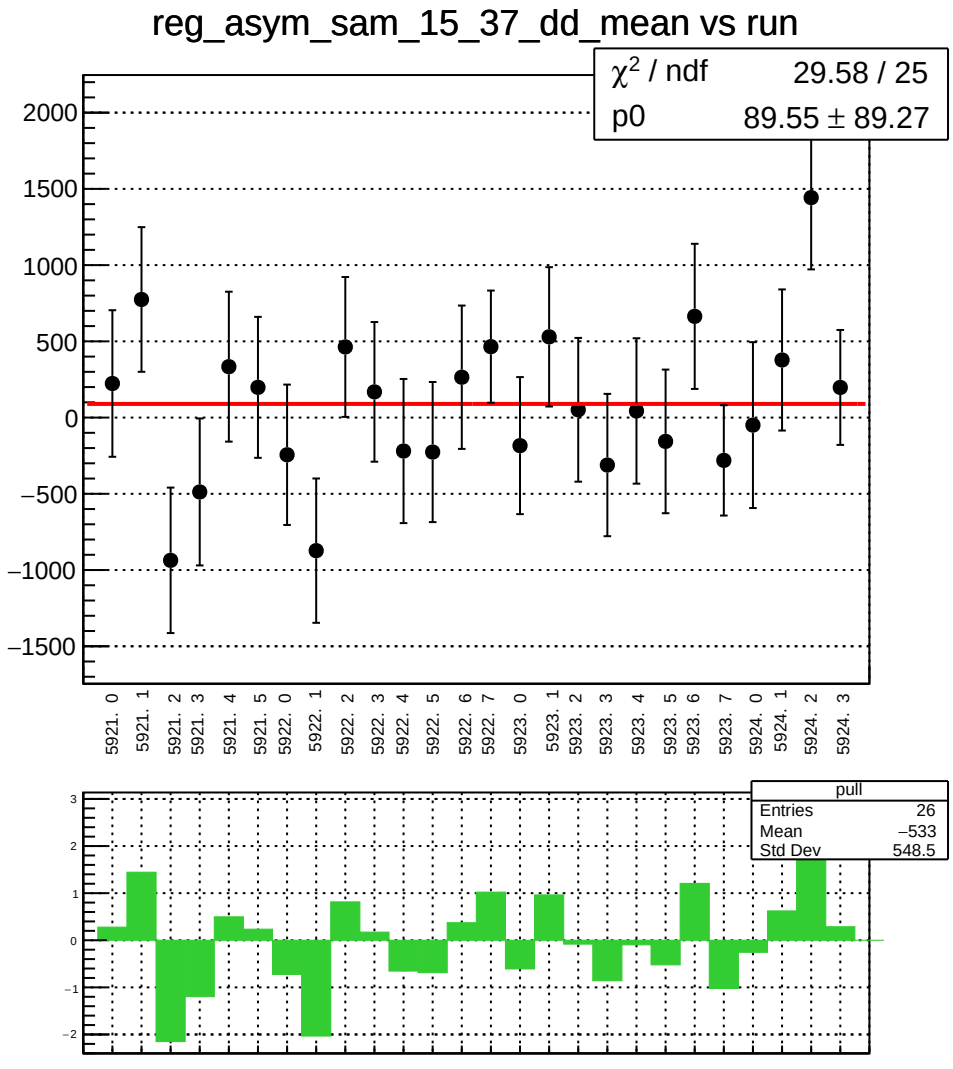

pull1D
Entries 26
Mean −0.01389
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

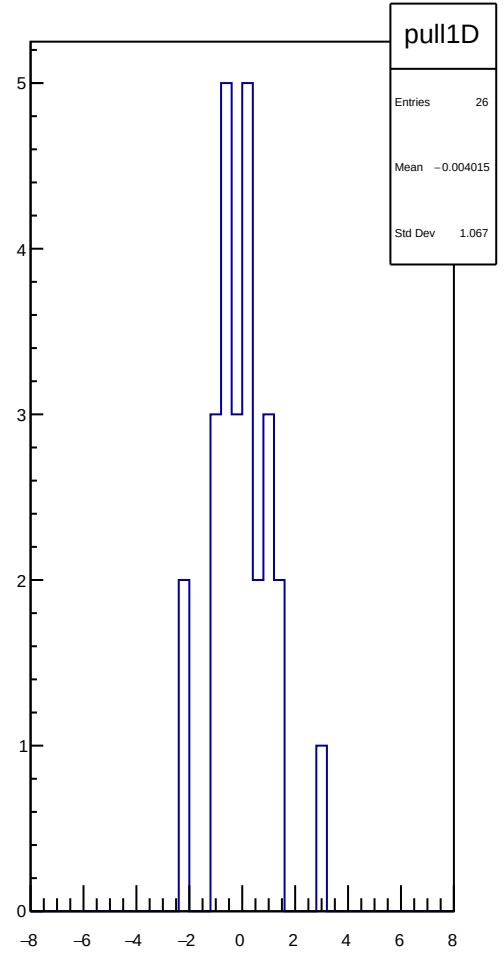

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1020 / 25
p0 730.3 ± 1.032
820
800
780
760
740
720
700
680
660
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

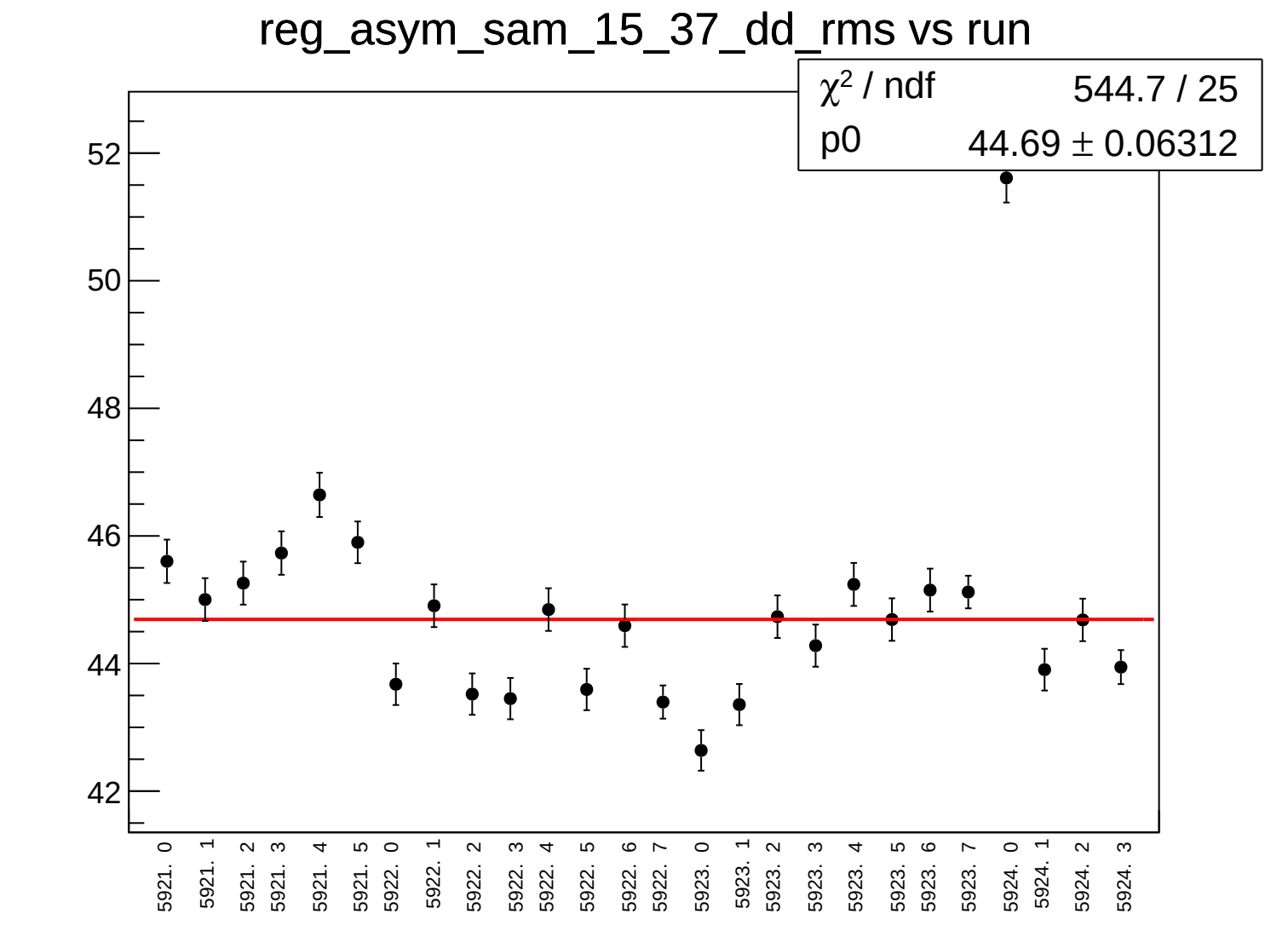

asym_sam_13_57_dd_mean vs run
χ² / ndf 28.89 / 25
p0 1424 ± 1464
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −96.56
Std Dev 109
2
1
0
−1
−2

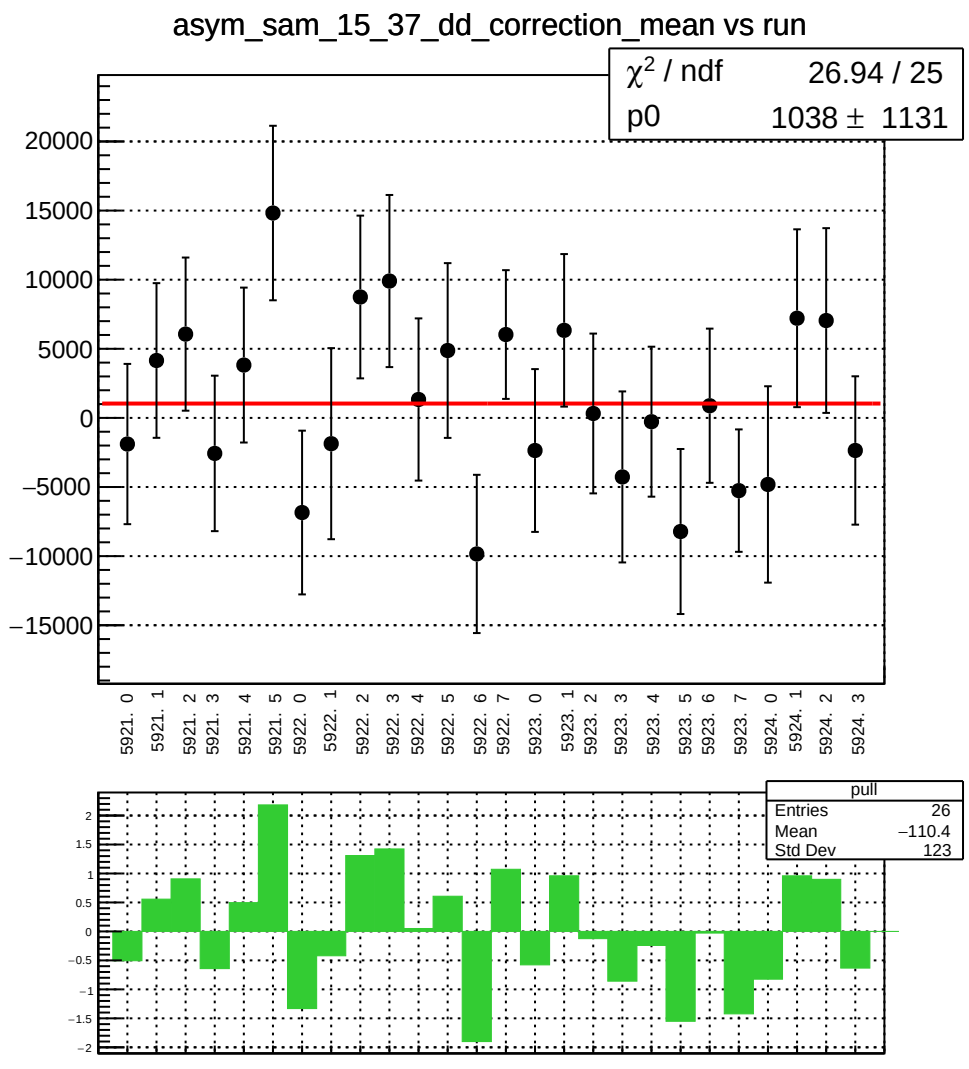

pull1D
Entries 26
Mean 0.01365
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

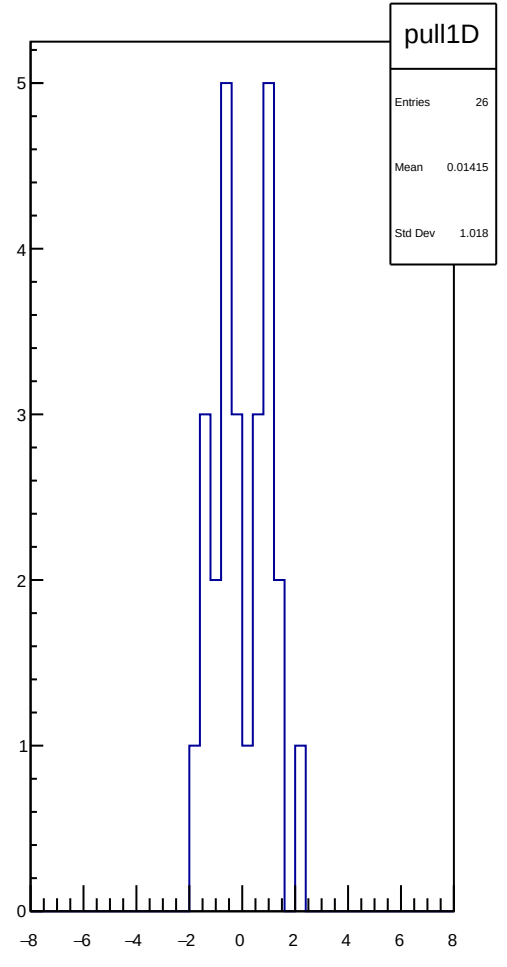

asym_sam_13_57_dd_rms vs run
χ² / ndf 1007 / 25
p0 732.6 ± 1.035
820
800
780
760
740
720
700
680
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

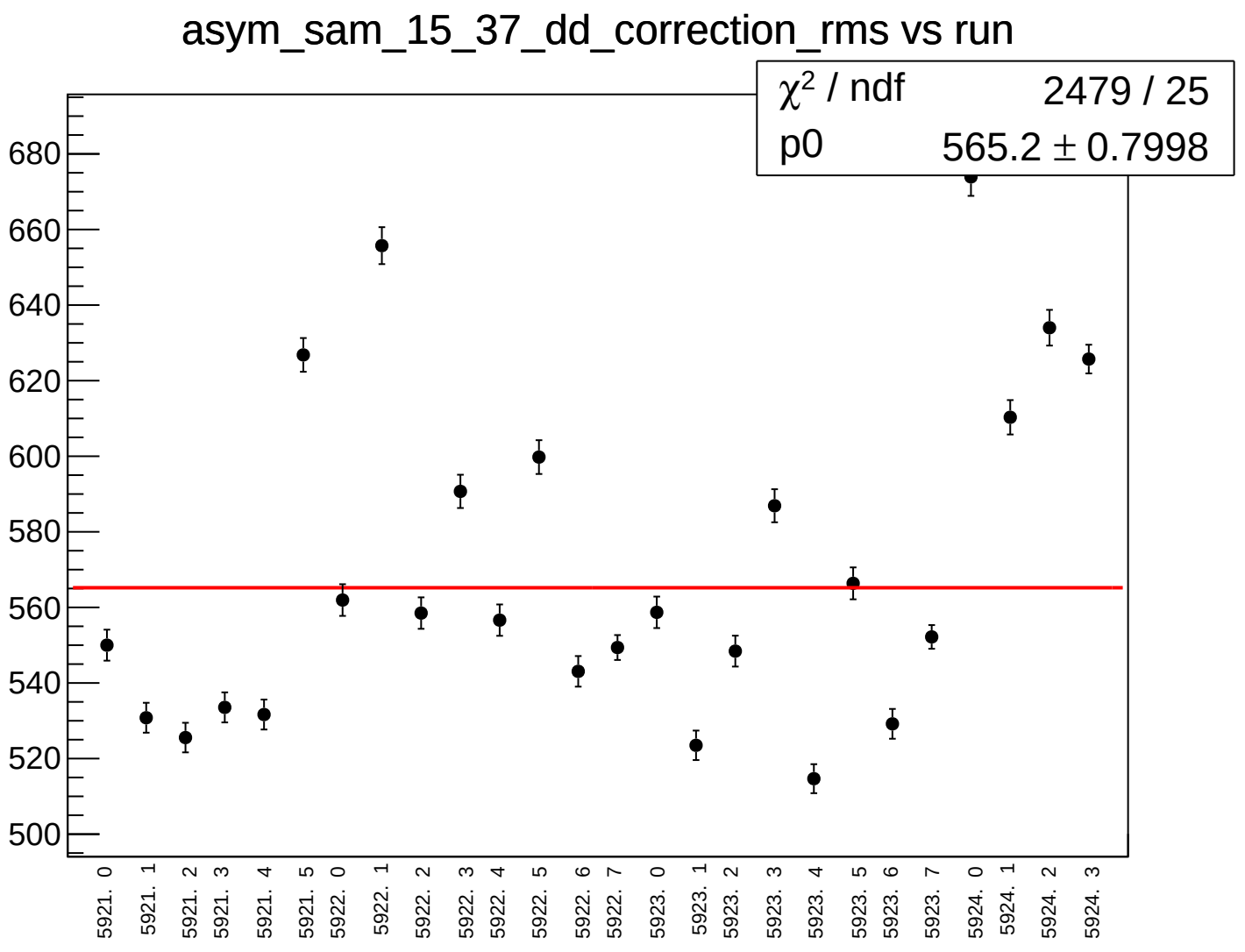

reg_asym_sam_15_37_dd_mean vs run
$\chi^2$ / ndf 29.58 / 25
p0 89.55 ± 89.27
2000
1500
1000
500
0
−500
−1000
−1500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −533
Std Dev 548.5
3
2
1
0
−1
−2

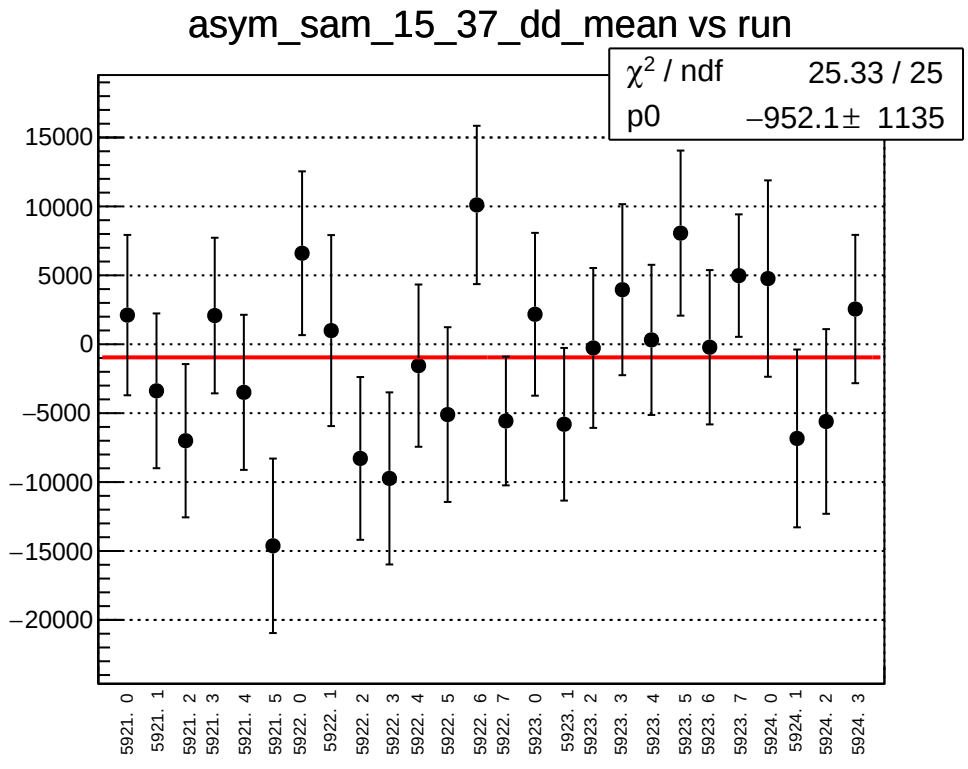

pull1D
Entries 26
Mean −0.004015
Std Dev 1.067
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

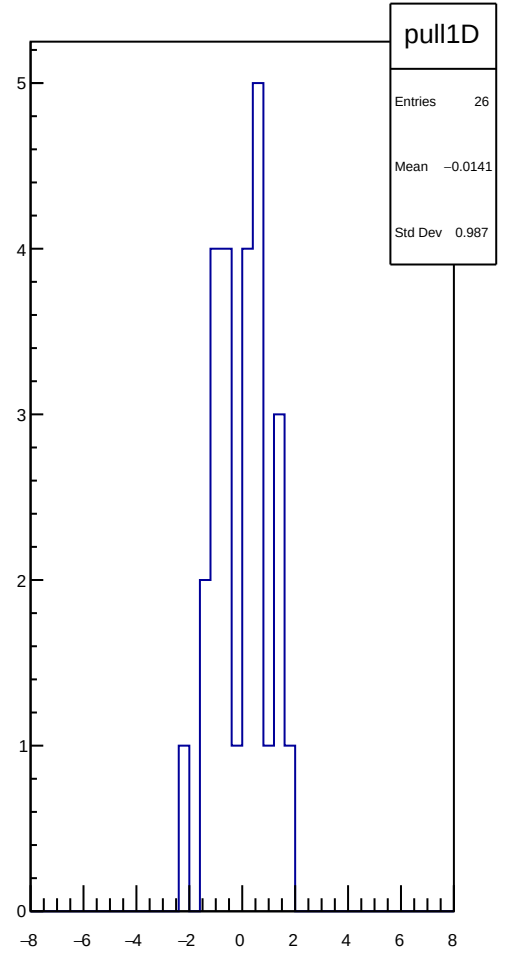

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 544.7 / 25
p0 44.69 ± 0.06312
52
50
48
46
44
42
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

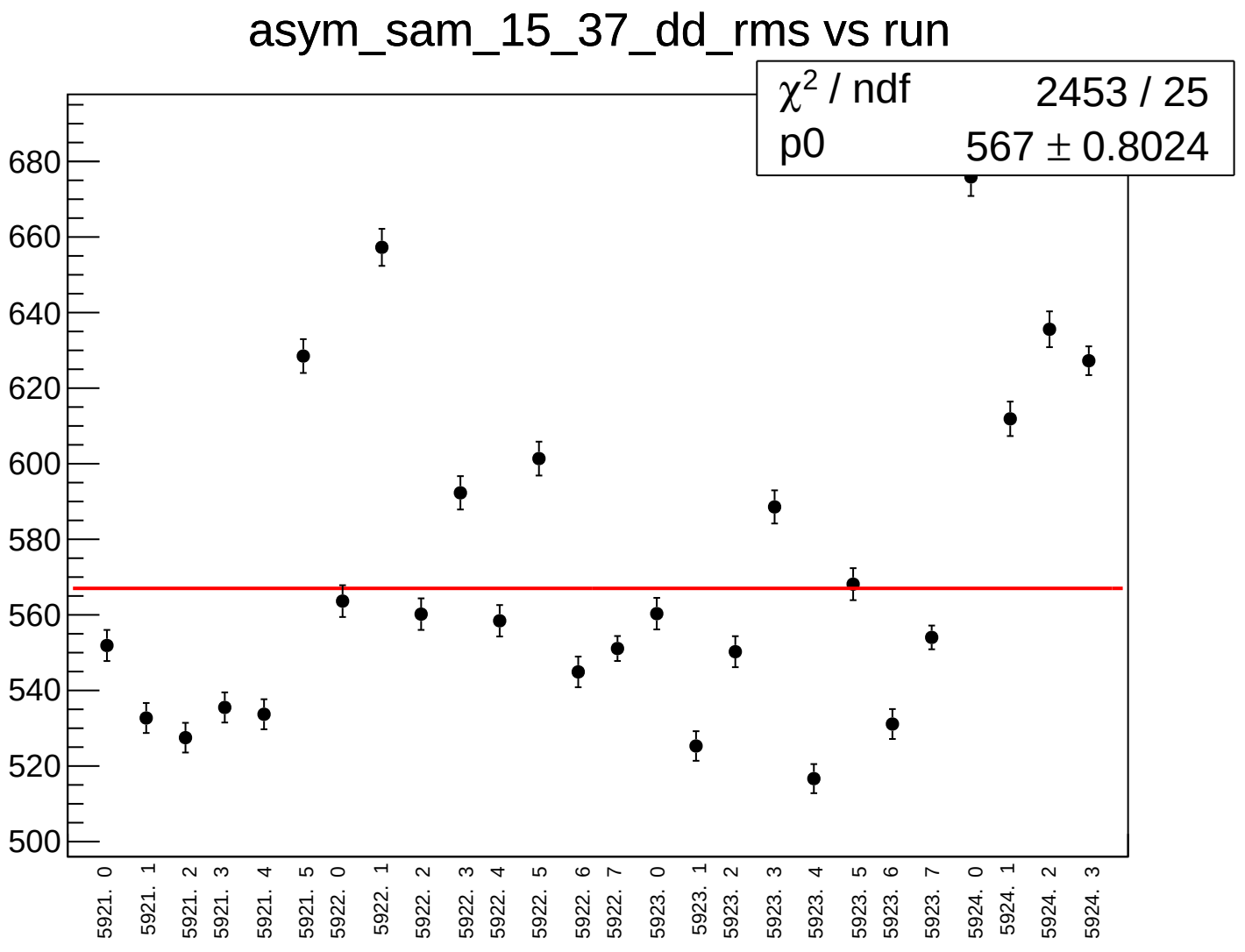

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 26.94 / 25
p0 1038 ± 1131
20000
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −110.4
Std Dev 123
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

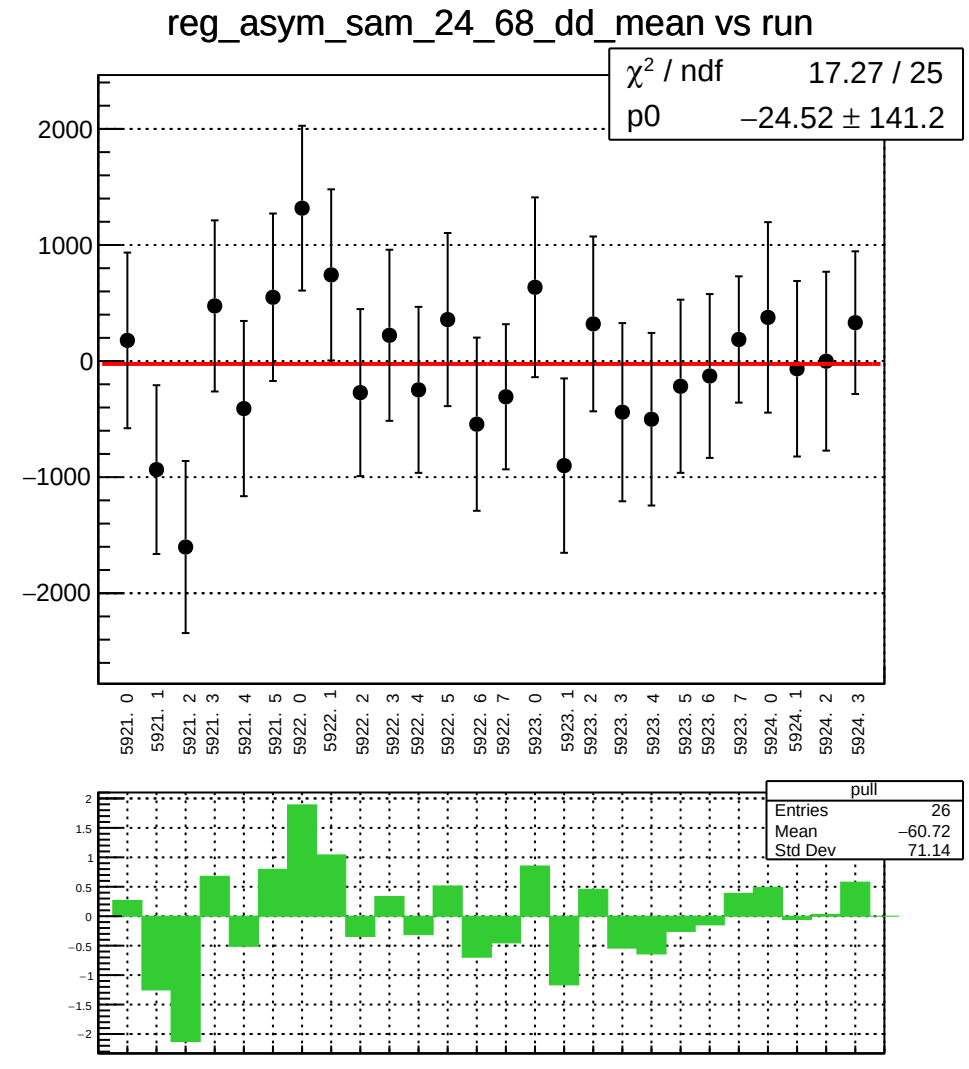

pull1D
Entries 26
Mean 0.01415
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

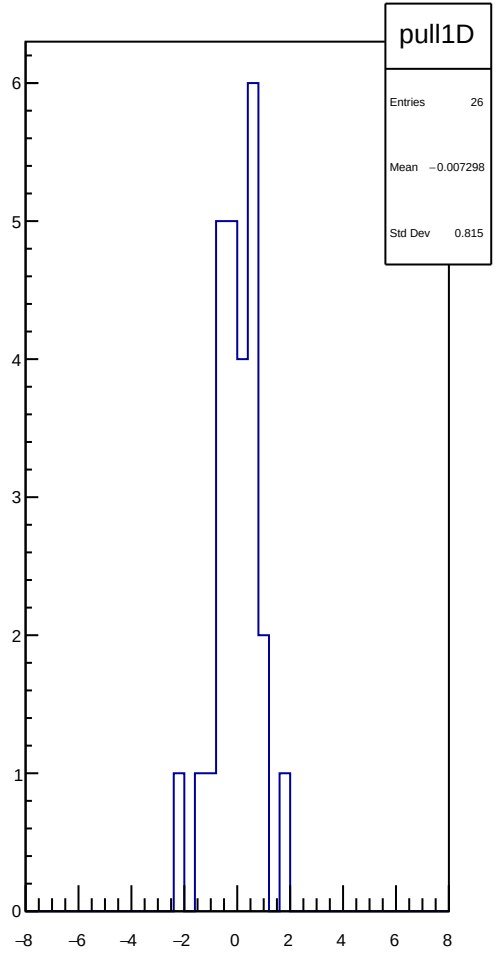

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2479 / 25
p0 565.2 ± 0.7998
680
660
640
620
600
580
560
540
520
500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

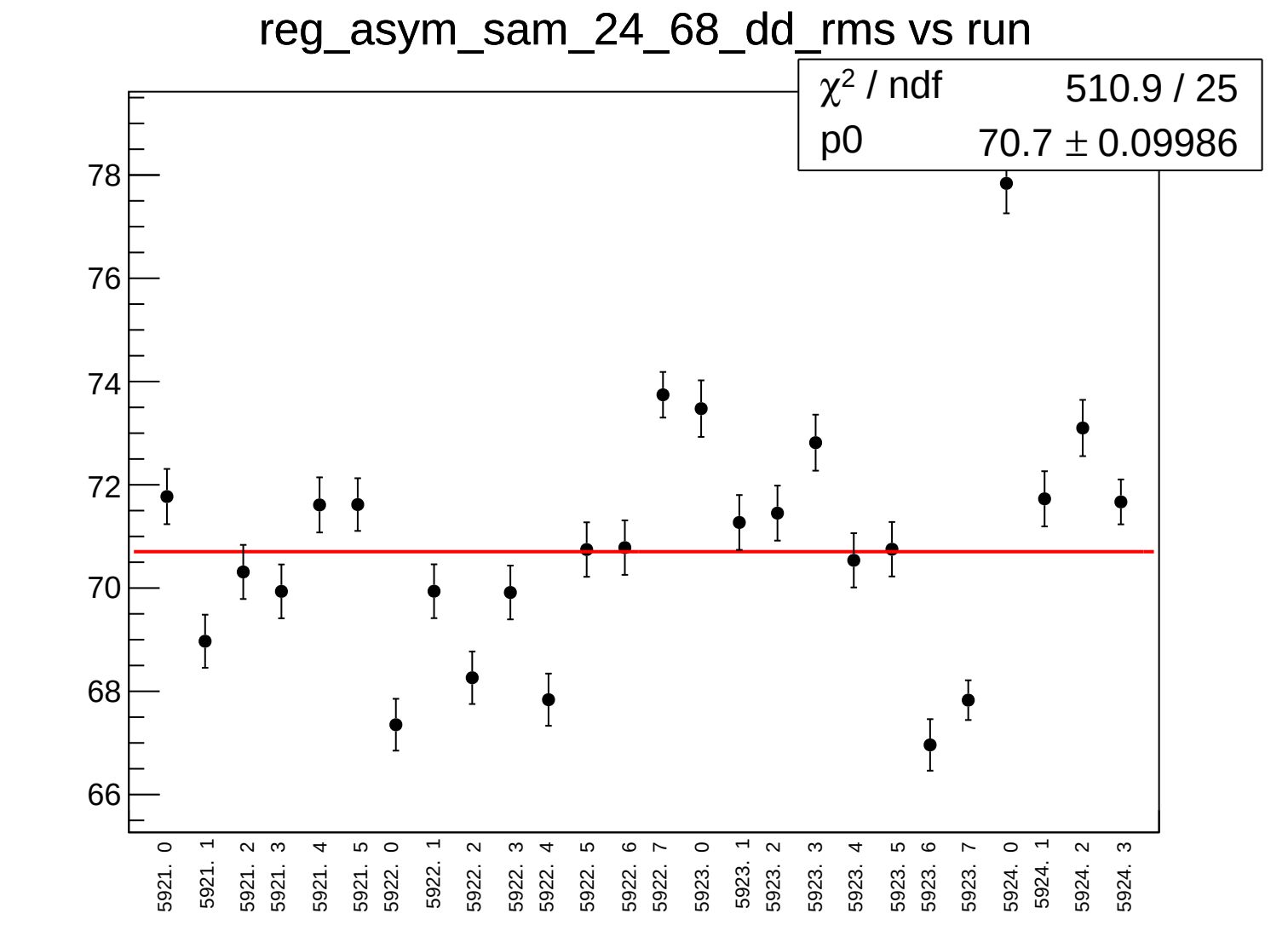

asym_sam_15_37_dd_mean vs run
χ² / ndf 25.33 / 25
p0 −952.1± 1135
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −121.8
Std Dev 134.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

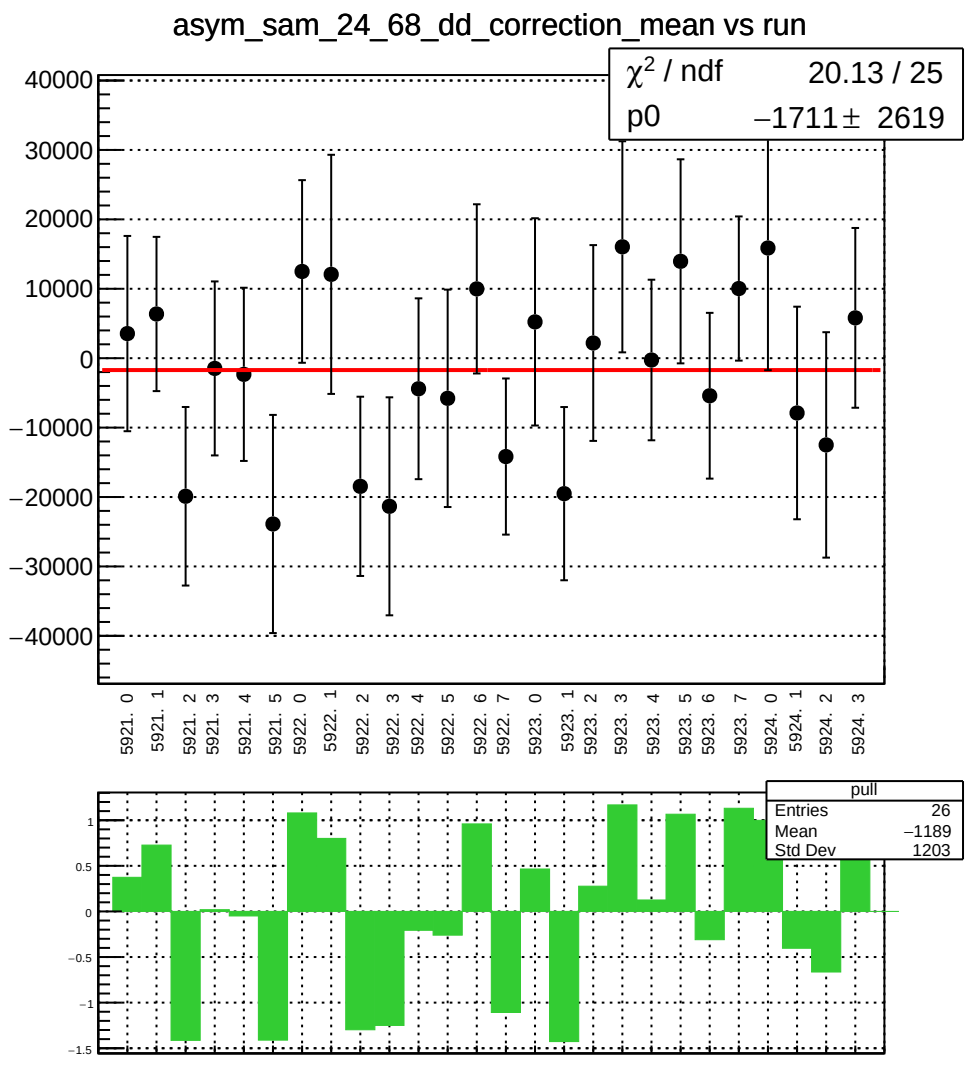

pull1D
Entries 26
Mean −0.0141
Std Dev 0.987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

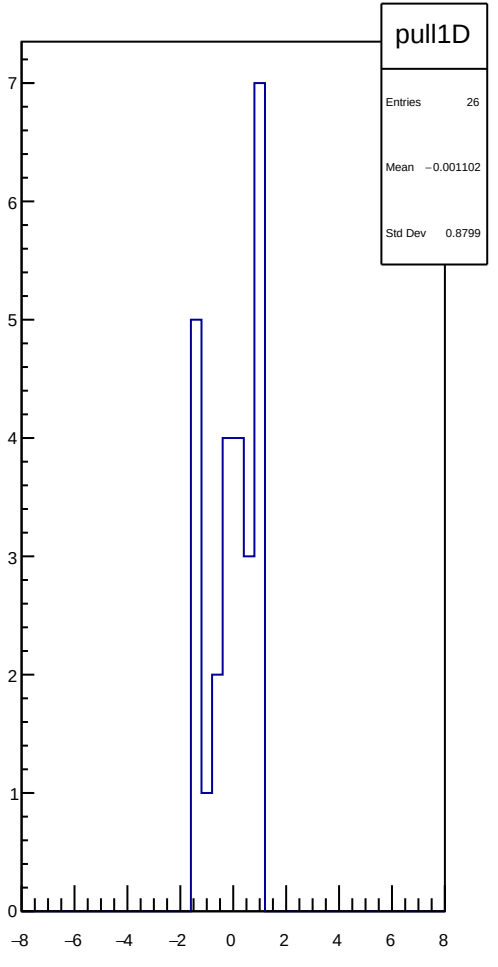

asym_sam_15_37_dd_rms vs run
χ² / ndf 2453 / 25
p0 567 ± 0.8024
680
660
640
620
600
580
560
540
520
500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

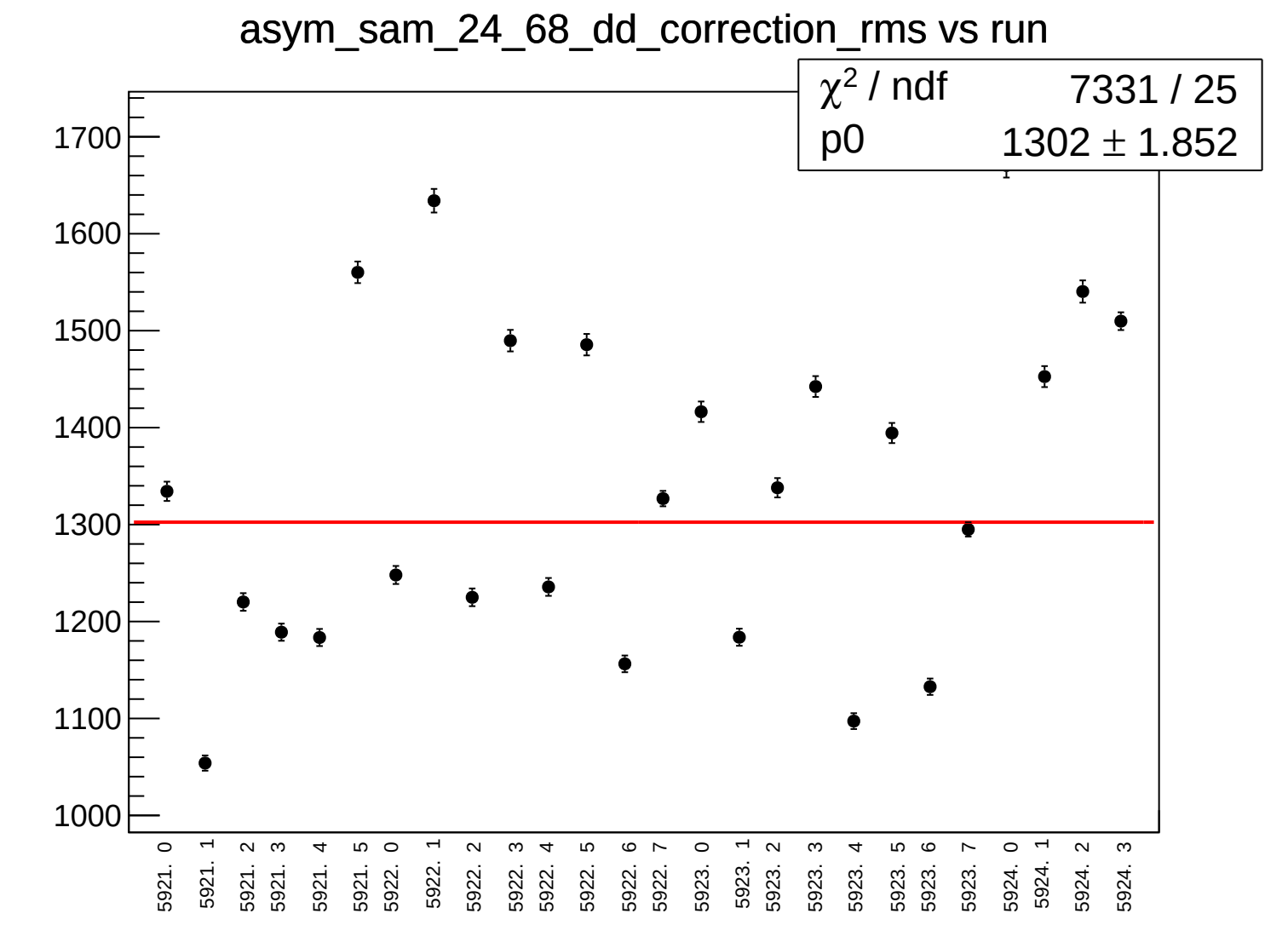

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.27 / 25
p0 −24.52 ± 141.2
2000
1000
0
−1000
−2000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −60.72
Std Dev 71.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

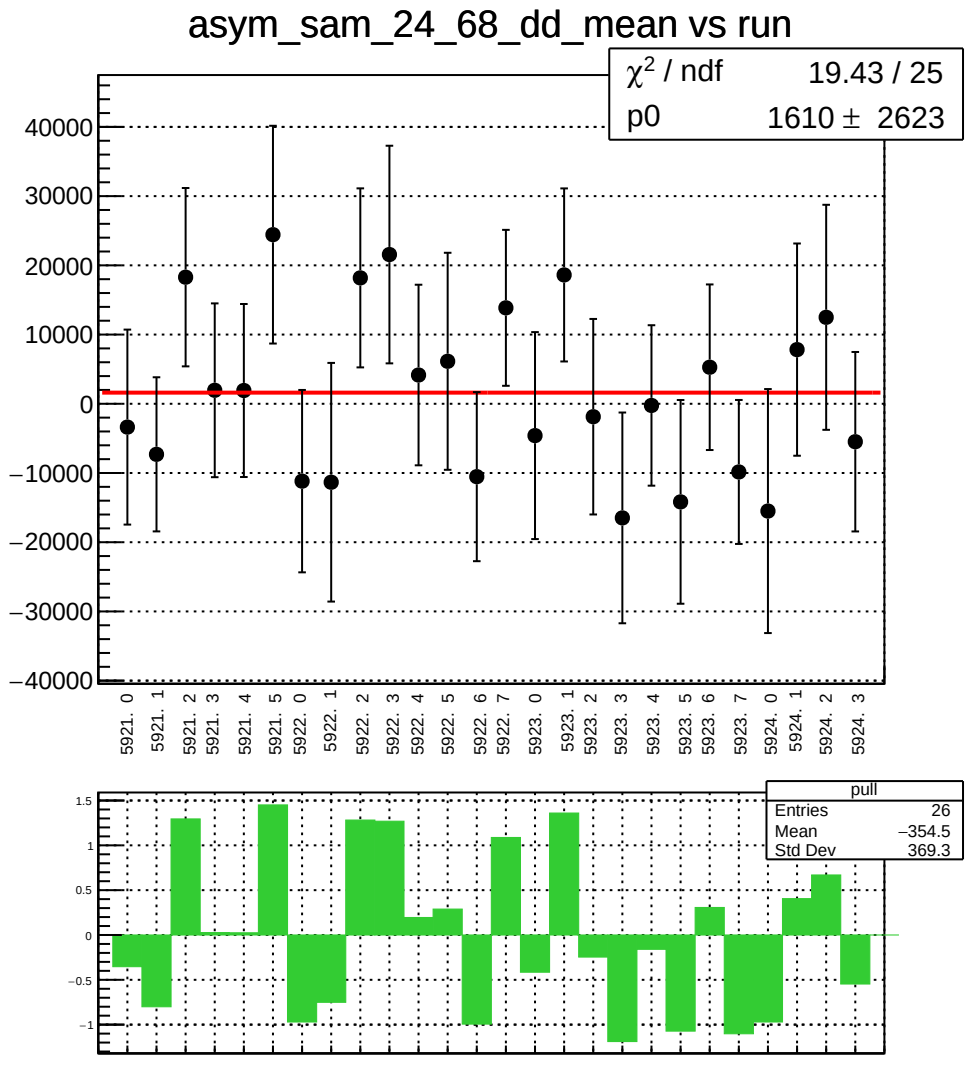

pull1D
Entries 26
Mean −0.007298
Std Dev 0.815
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

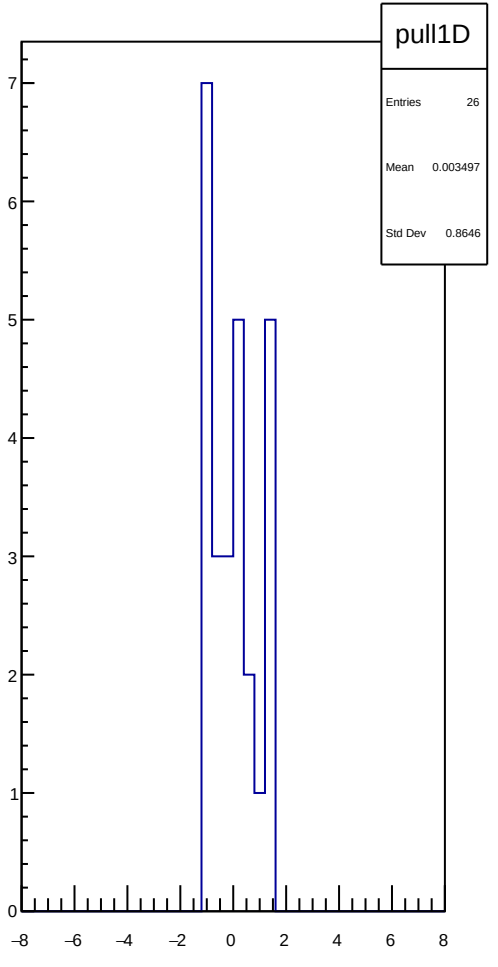

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 510.9 / 25
p0 70.7 ± 0.09986
78
76
74
72
70
68
66
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

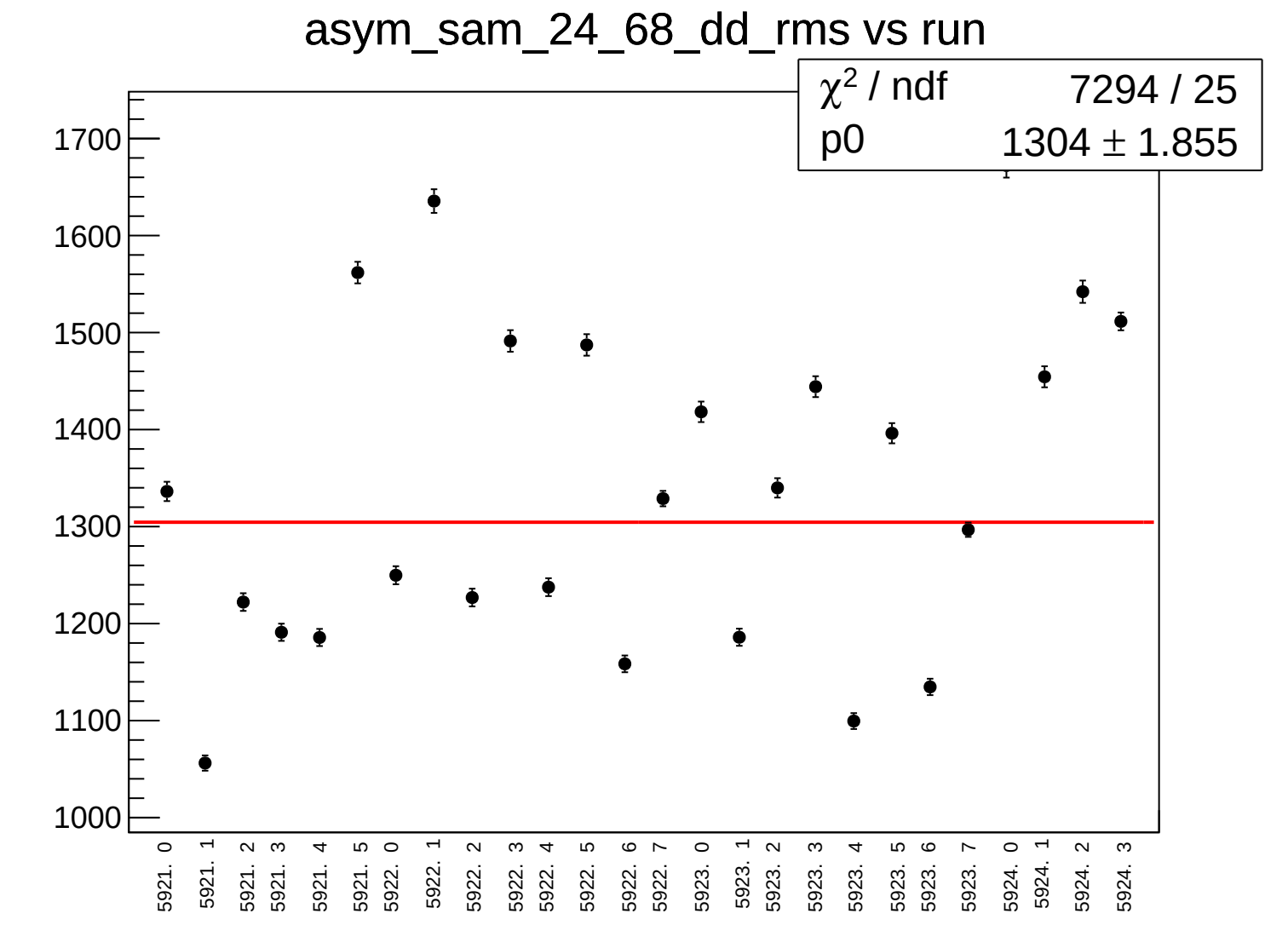

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 20.13 / 25
p0 −1711 ± 2619
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1189
Std Dev 1203
1
0.5
0
−0.5
−1
−1.5

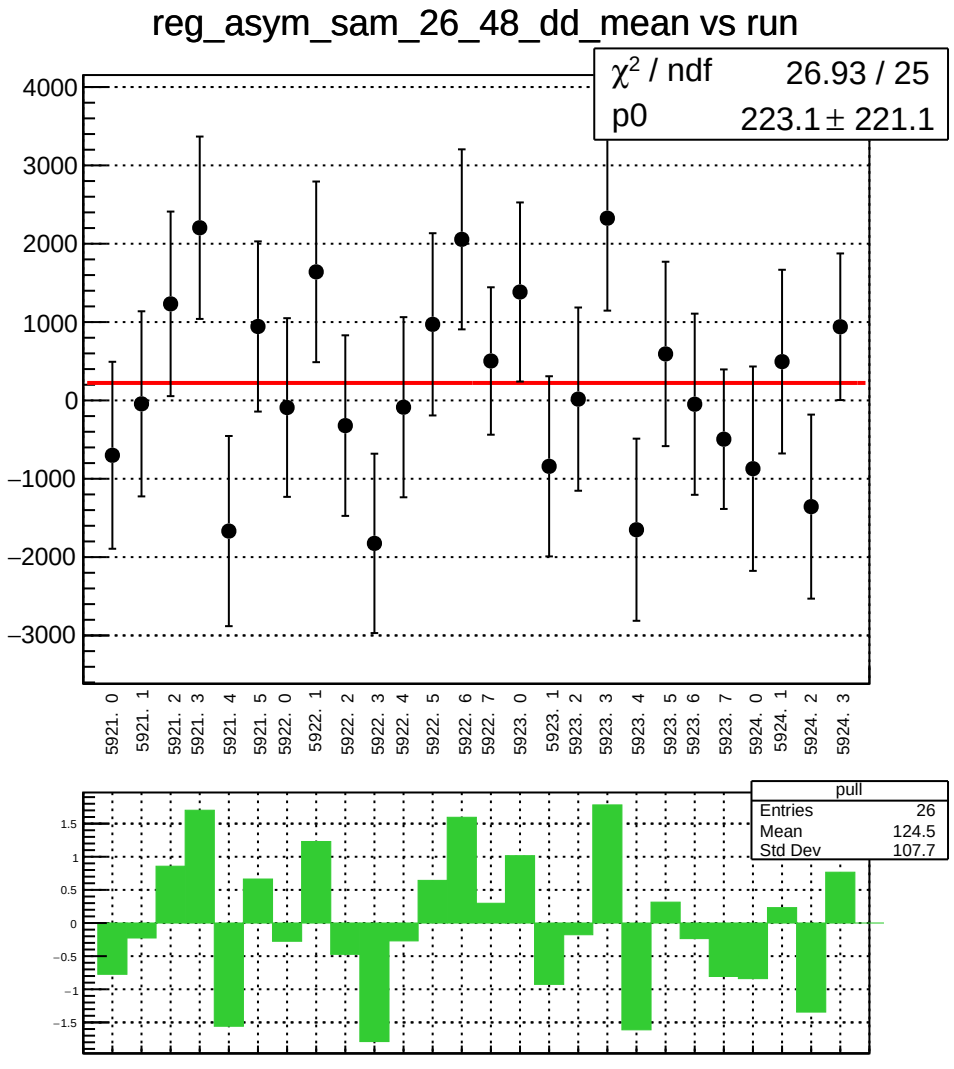

pull1D
Entries 26
Mean −0.001102
Std Dev 0.8799
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

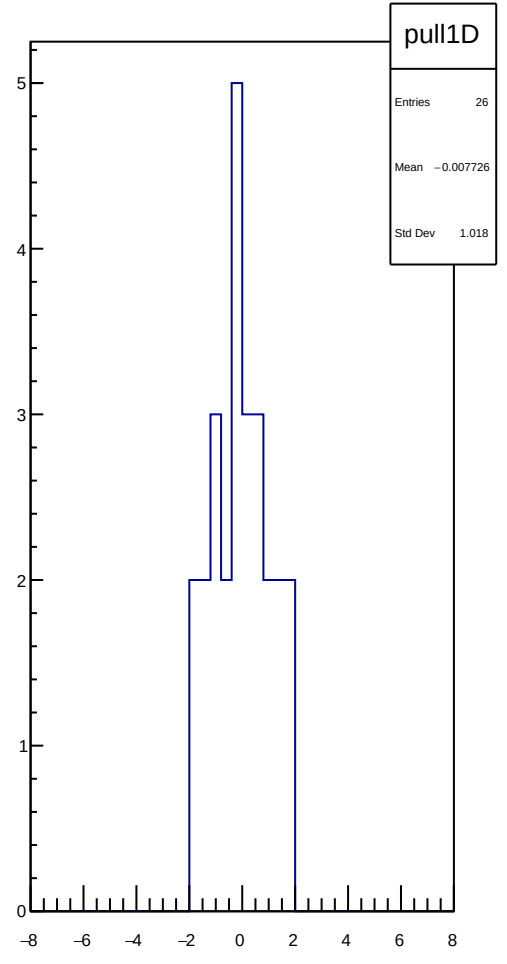

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 7331 / 25
p0 1302 ± 1.852
1700
1600
1500
1400
1300
1200
1100
1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

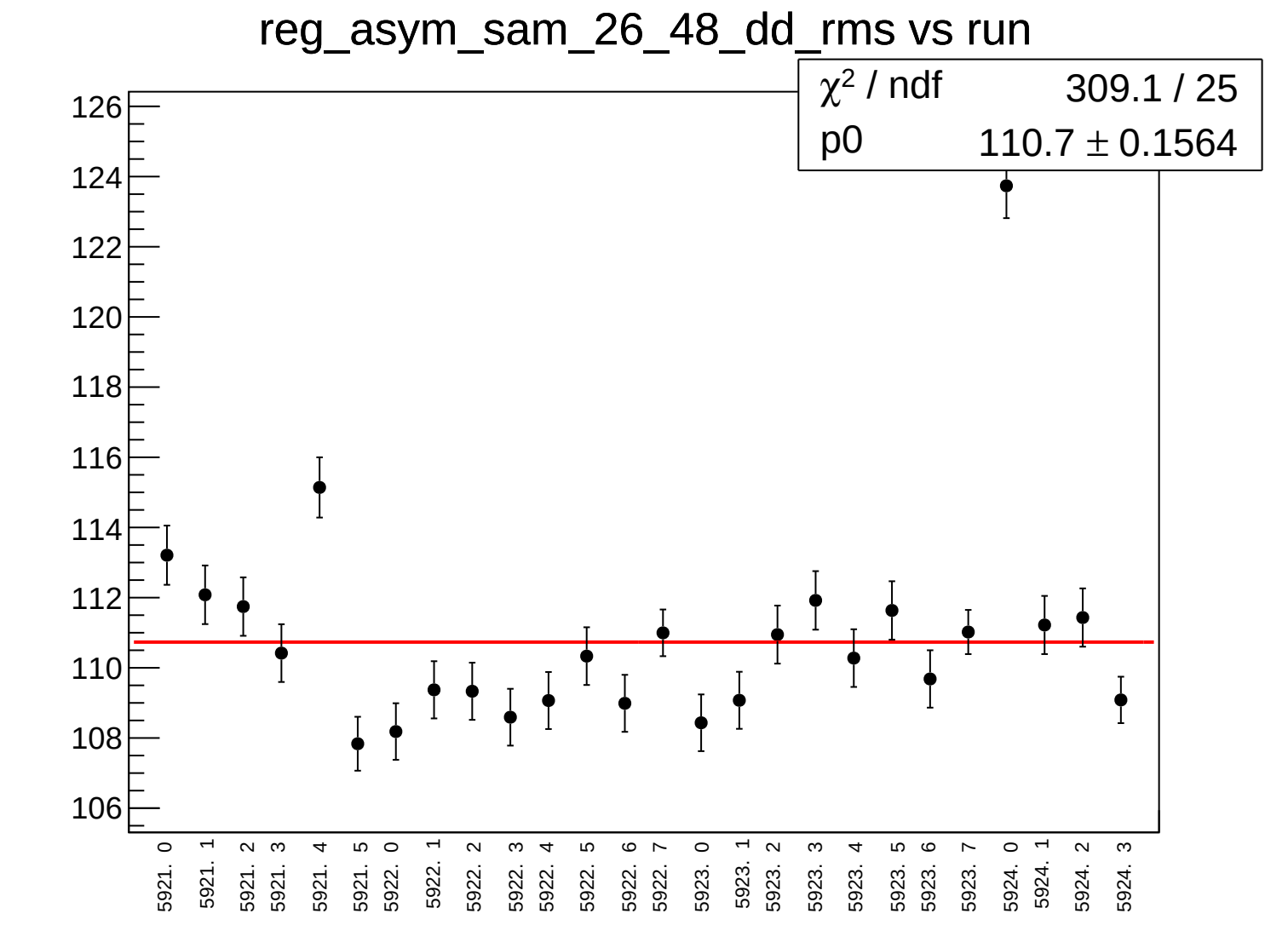

asym_sam_24_68_dd_mean vs run
χ² / ndf 19.43 / 25
p0 1610 ± 2623
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −354.5
Std Dev 369.3
1.5
1
0.5
0
−0.5
−1

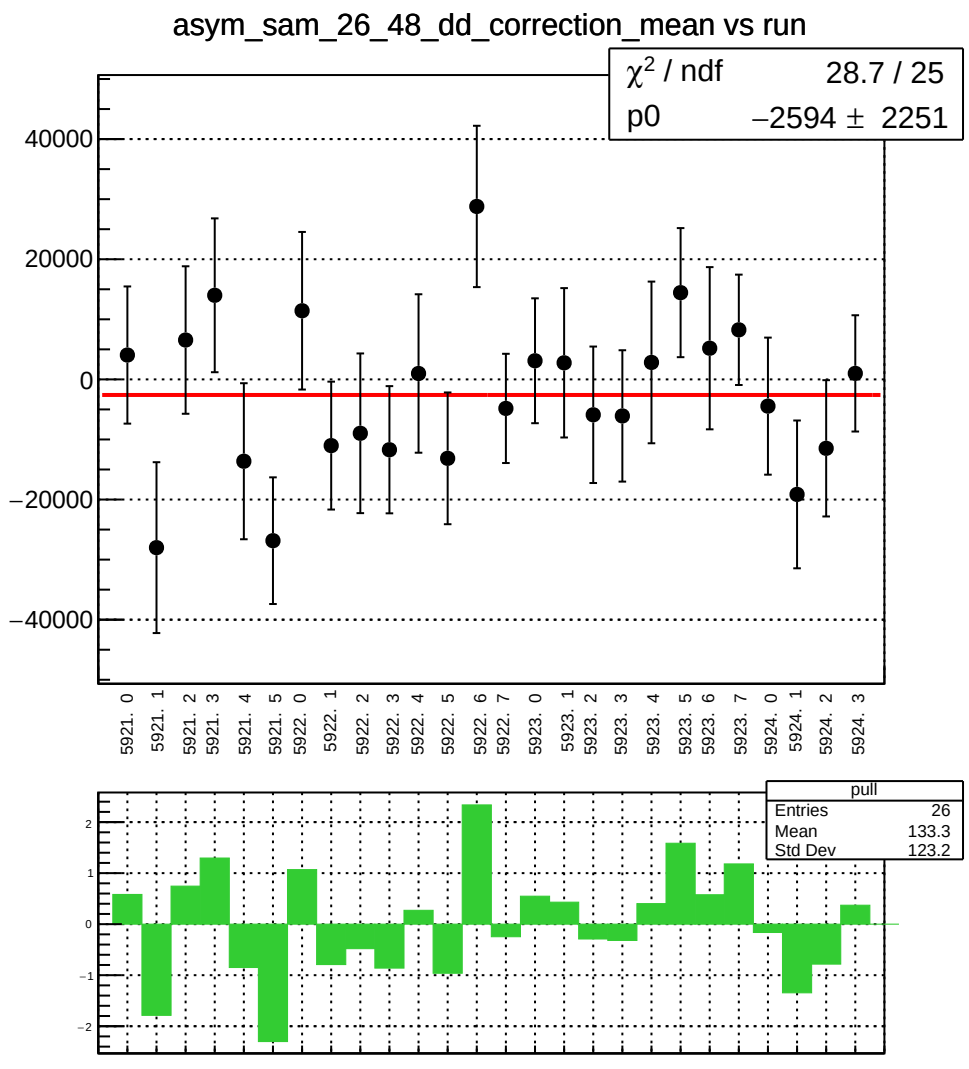

pull1D
Entries 26
Mean 0.003497
Std Dev 0.8646
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

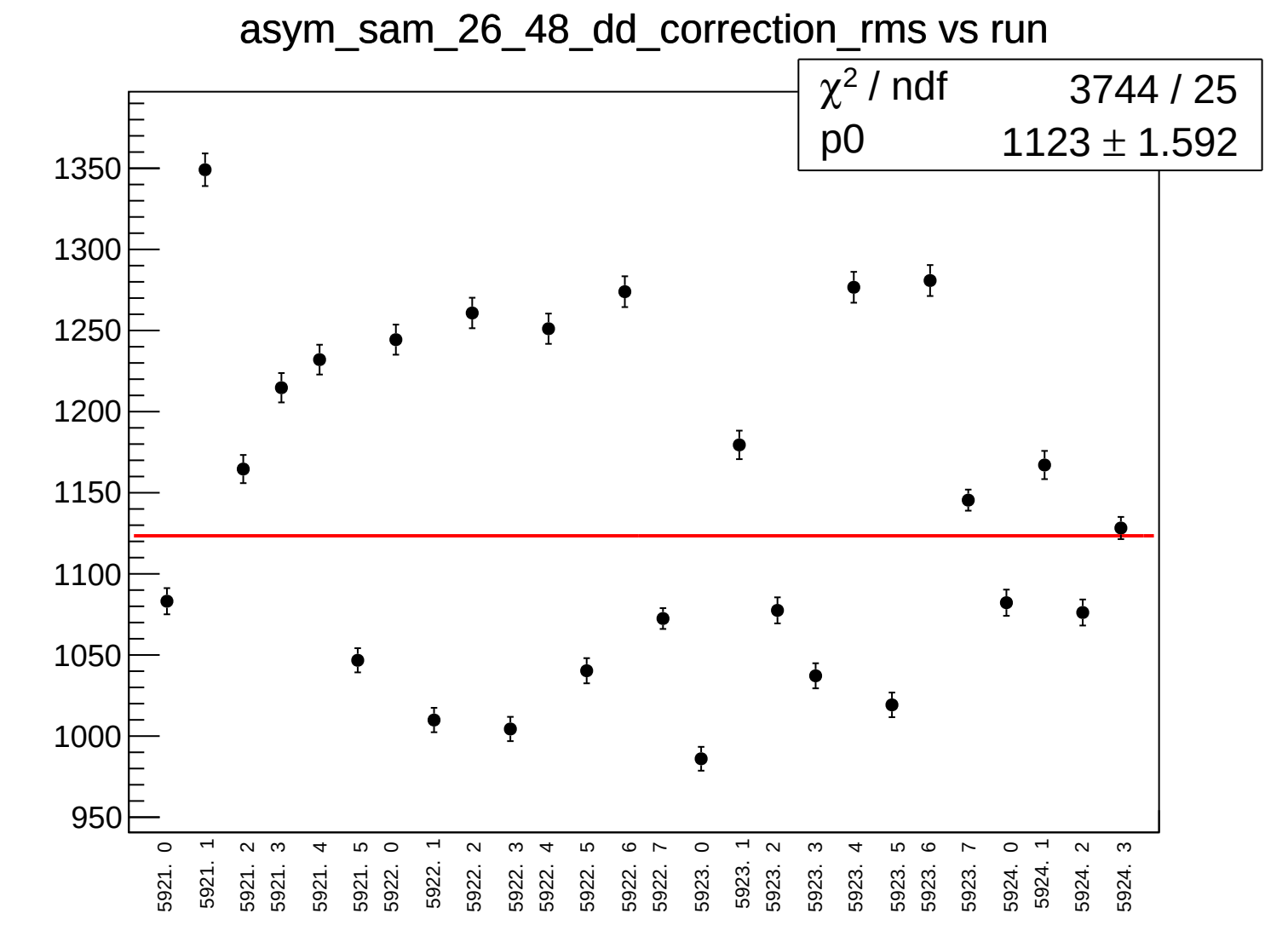

asym_sam_24_68_dd_rms vs run
χ² / ndf 7294 / 25
p0 1304 ± 1.855
1700
1600
1500
1400
1300
1200
1100
1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3


reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.93 / 25
p0 223.1 ± 221.1
4000
3000
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 124.5
Std Dev 107.7
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 26
Mean −0.007726
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 309.1 / 25
p0 110.7 ± 0.1564
126
124
122
120
118
116
114
112
110
108
106
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3


asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 28.7 / 25
p0 −2594 ± 2251
40000
20000
0
−20000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 133.3
Std Dev 123.2
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.008297
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3744 / 25
p0 1123 ± 1.592
1350
1300
1250
1200
1150
1100
1050
1000
950
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
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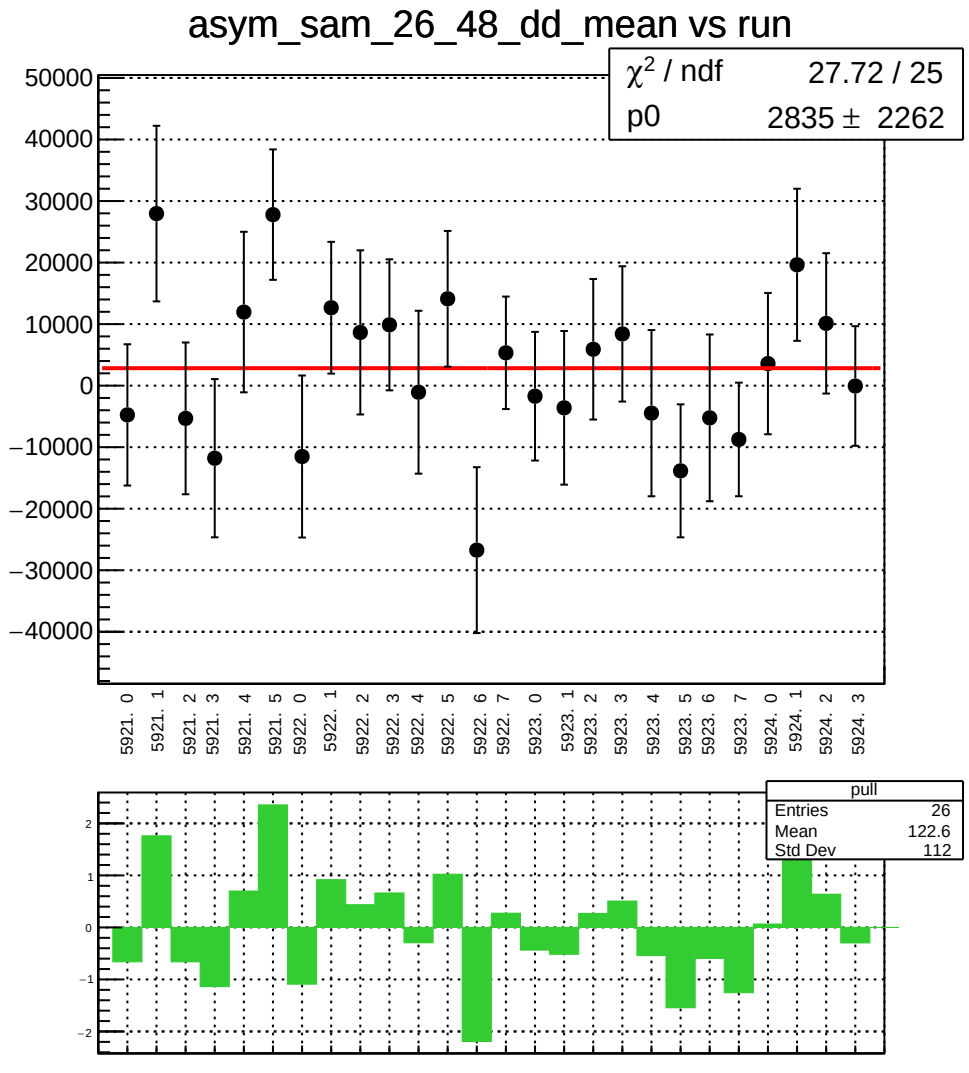
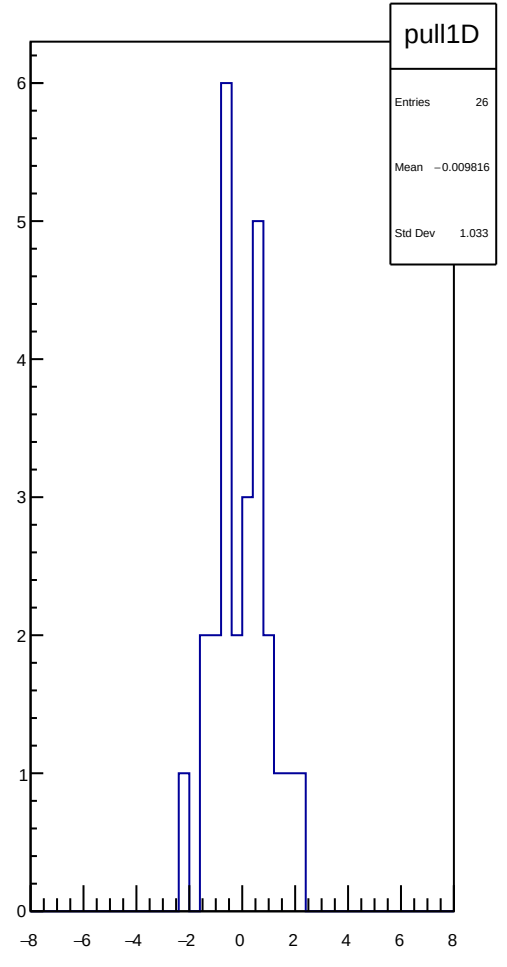
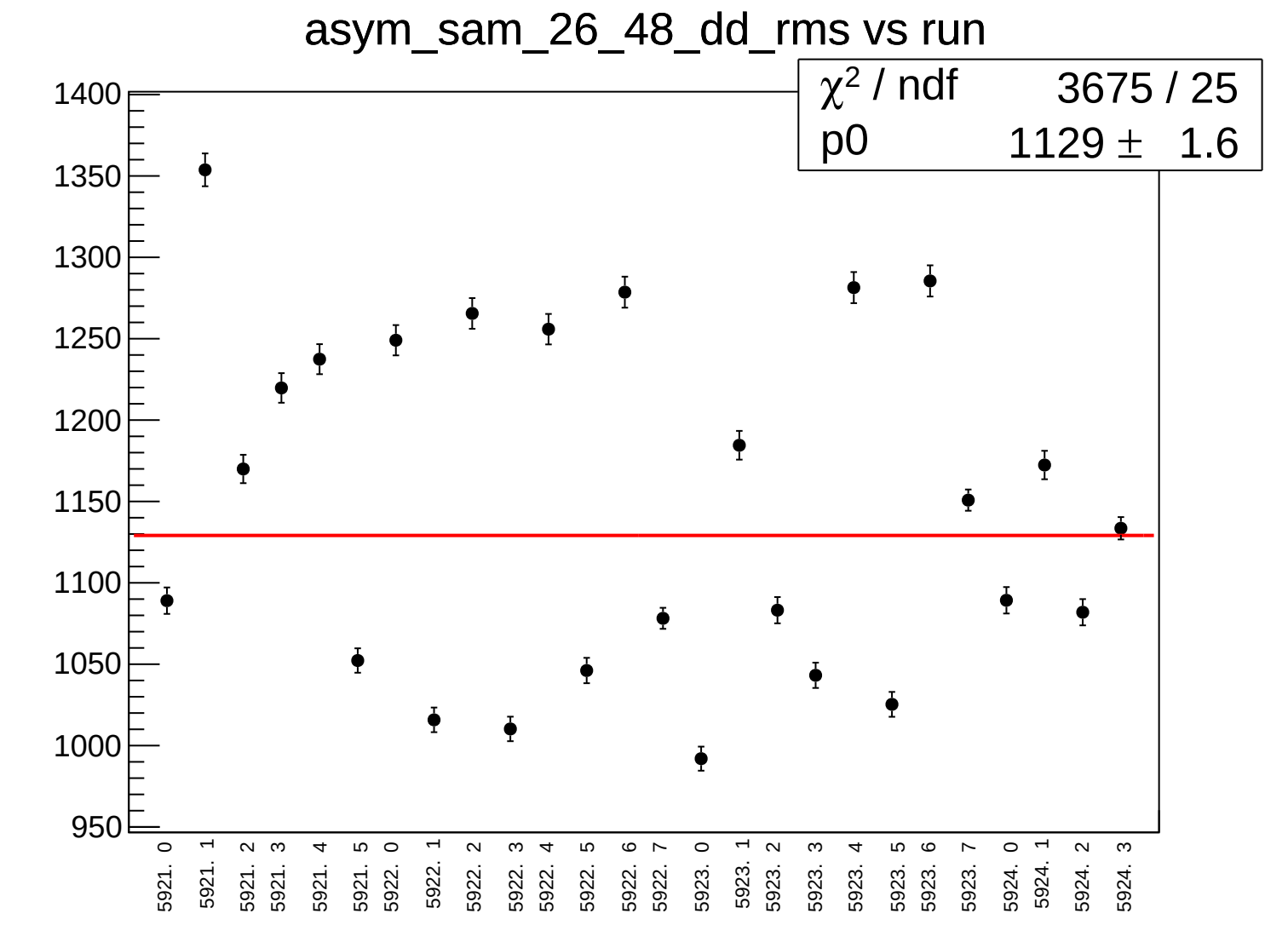
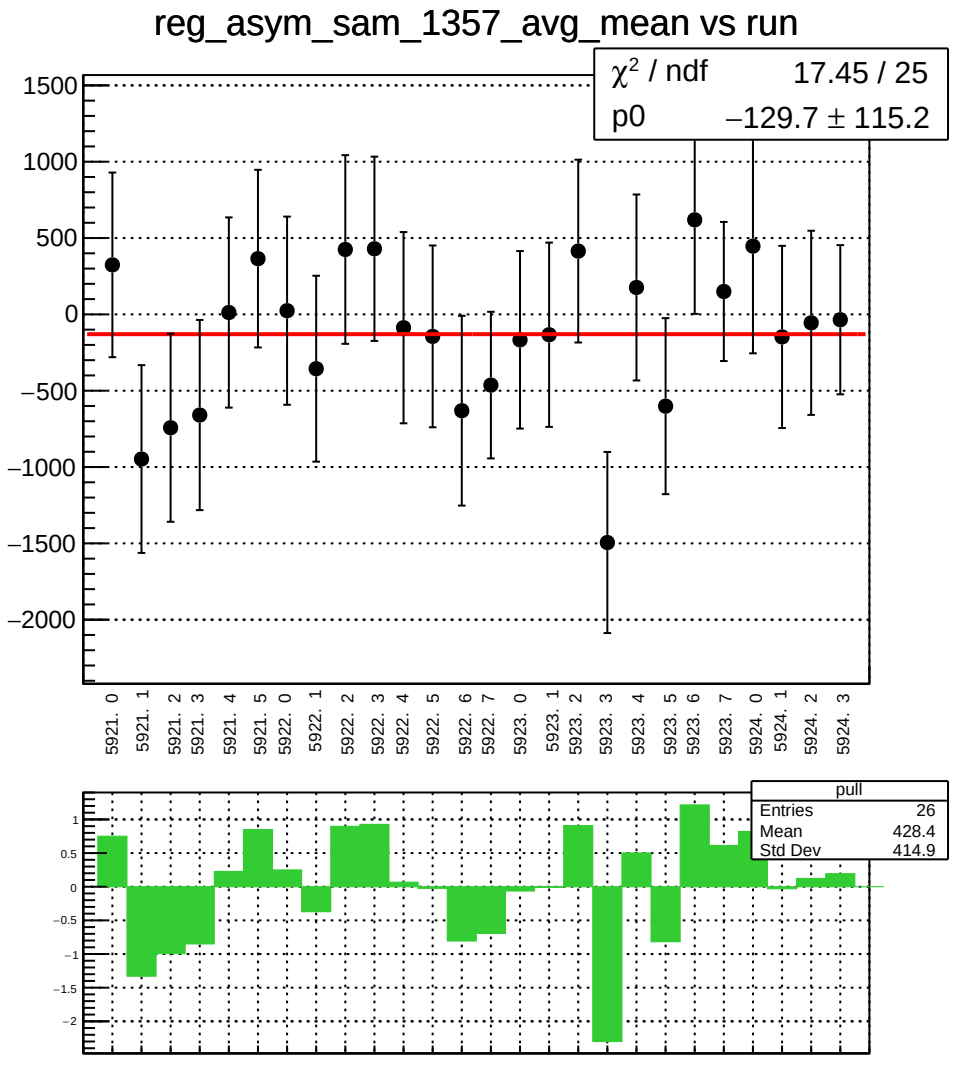
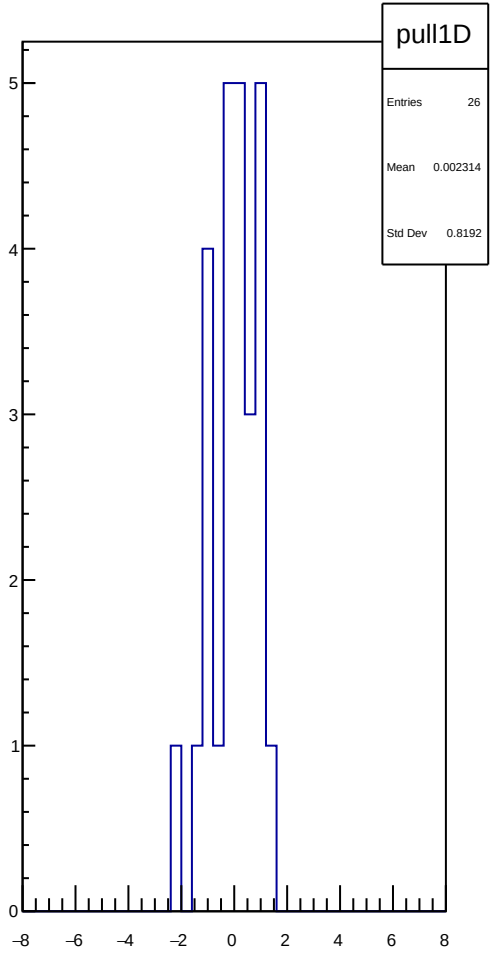
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

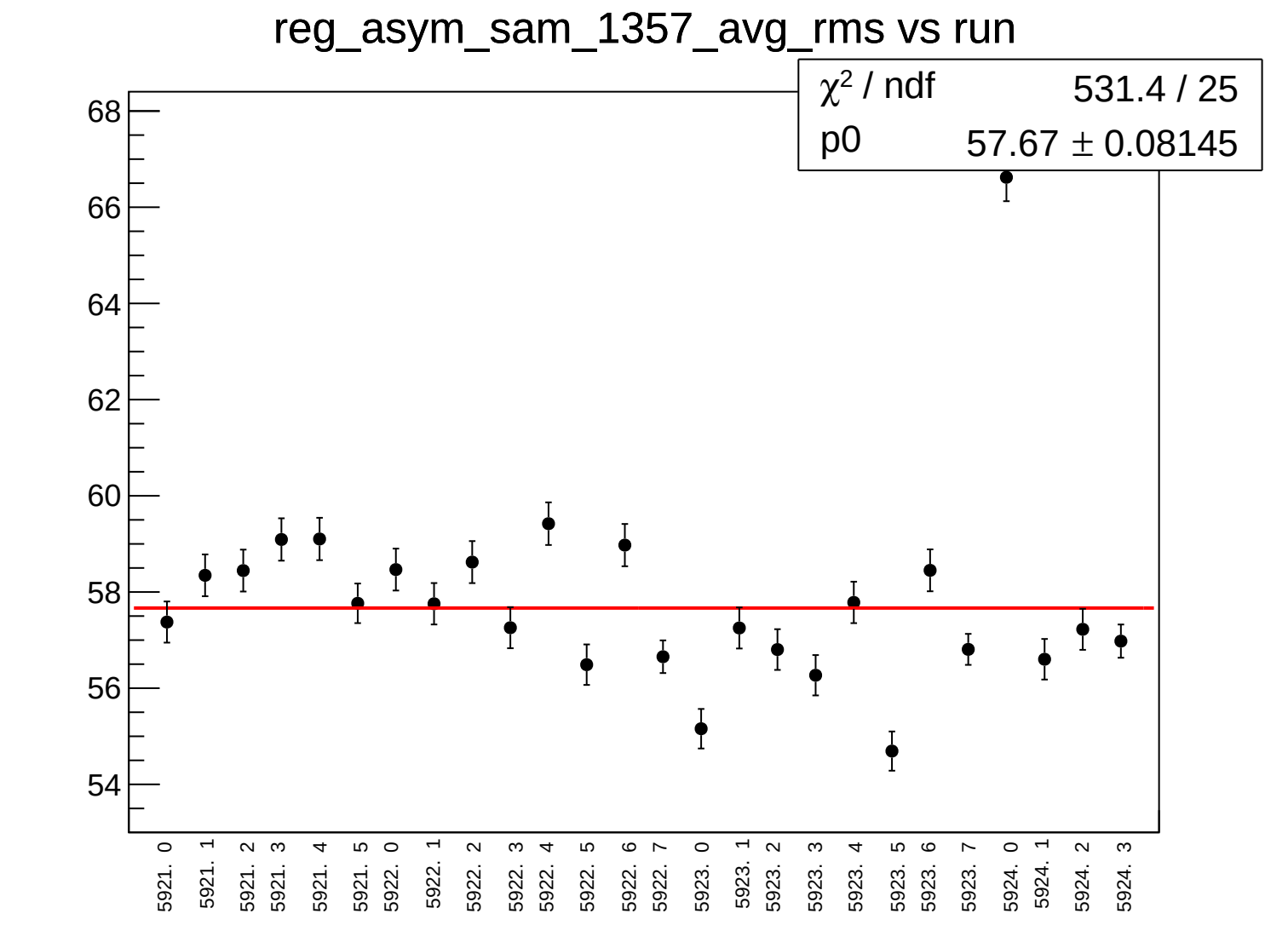

asym_sam_26_48_dd_mean vs run
χ² / ndf 27.72 / 25
p0 2835 ± 2262
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 122.6
Std Dev 112
2
1
0
−1
−2

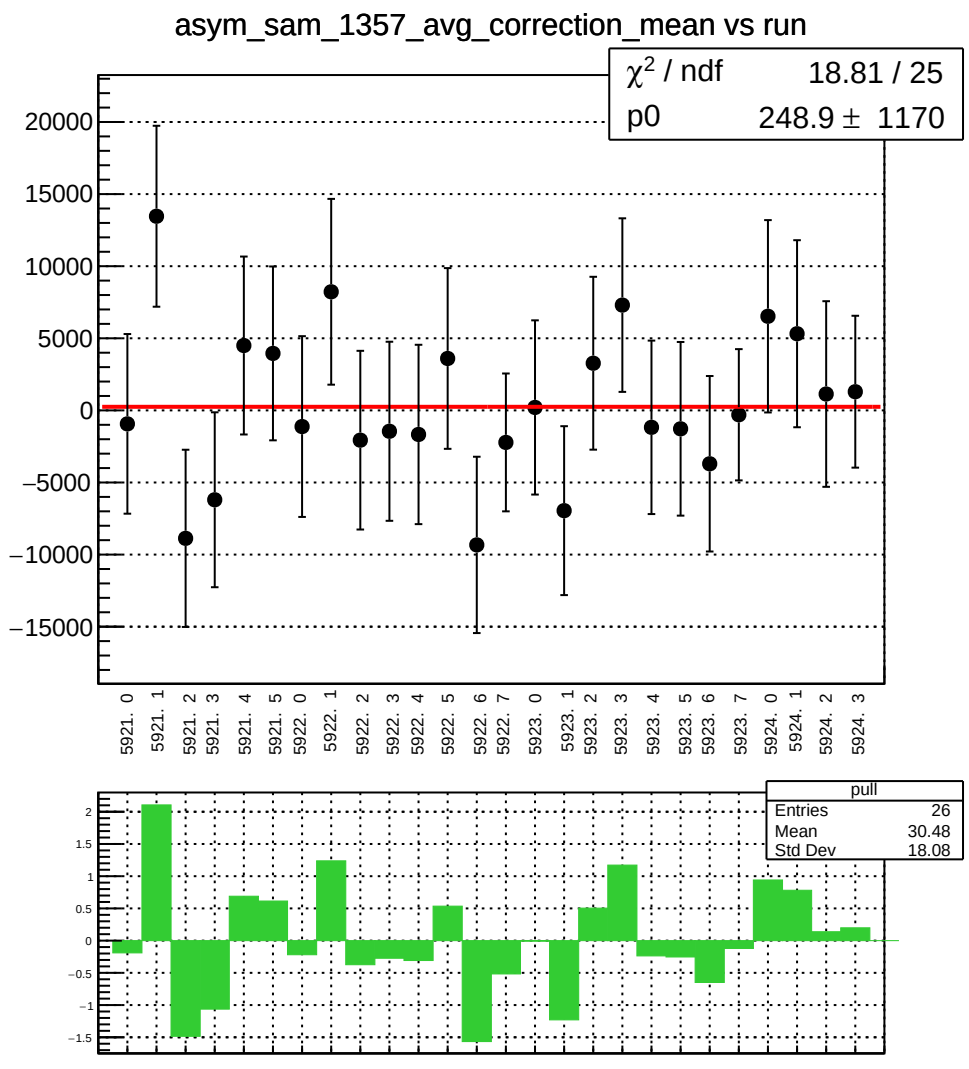

pull1D
Entries 26
Mean −0.009816
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

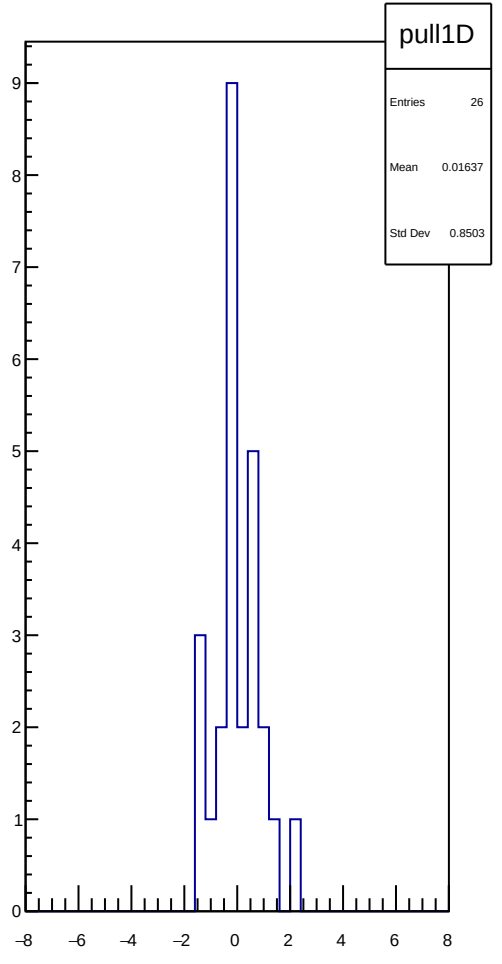

asym_sam_26_48_dd_rms vs run
χ² / ndf 3675 / 25
p0 1129 ± 1.6
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

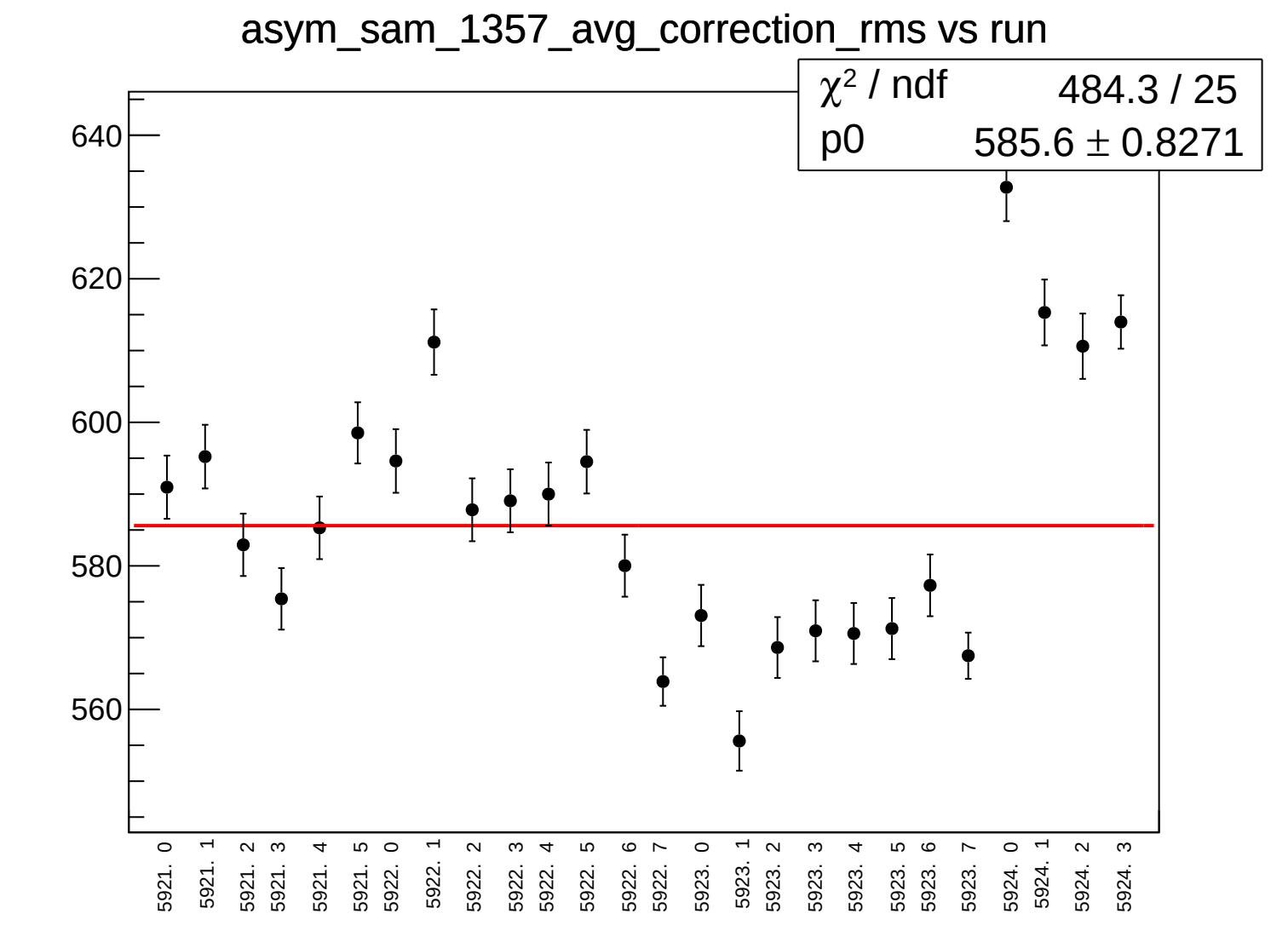

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 17.45 / 25
p0 −129.7 ± 115.2
1500
1000
500
0
−500
−1000
−1500
−2000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 428.4
Std Dev 414.9
1
0.5
0
−0.5
−1
−1.5
−2

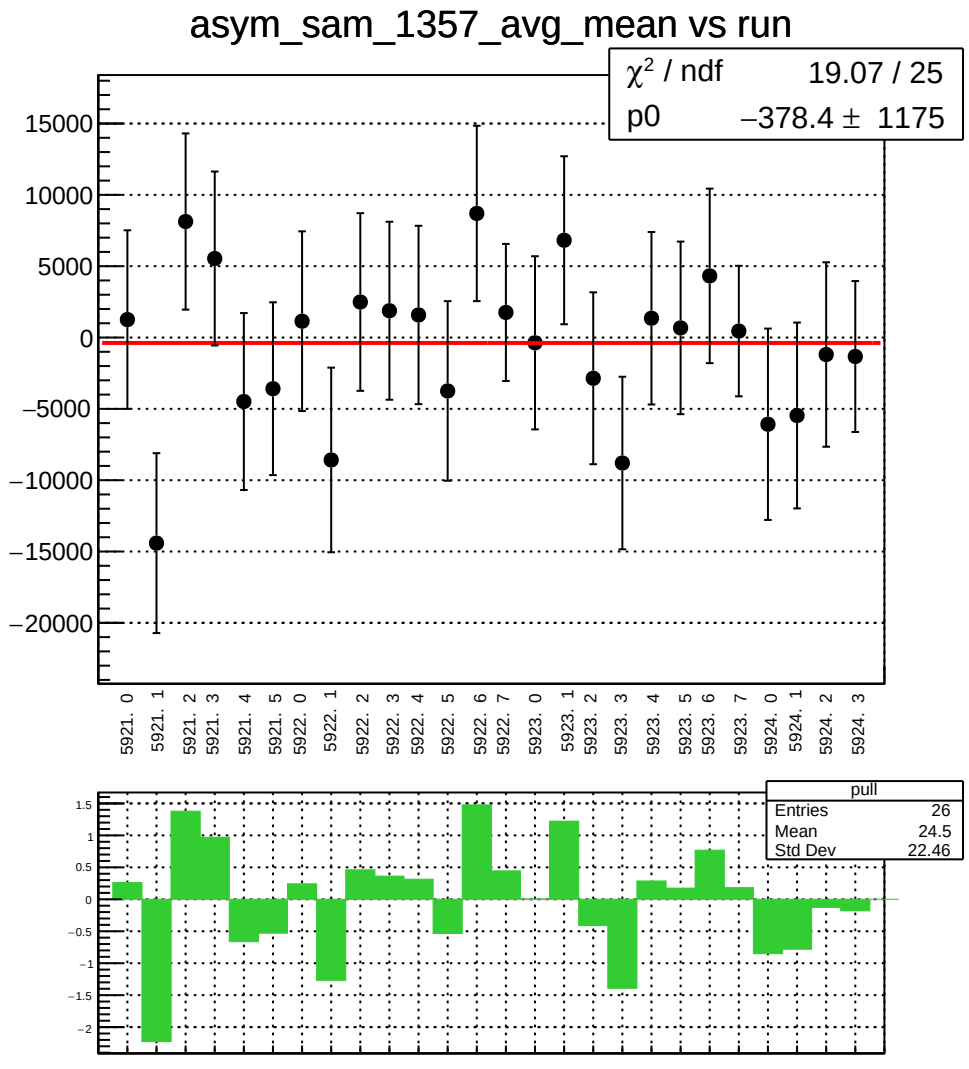

pull1D
Entries 26
Mean 0.002314
Std Dev 0.8192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

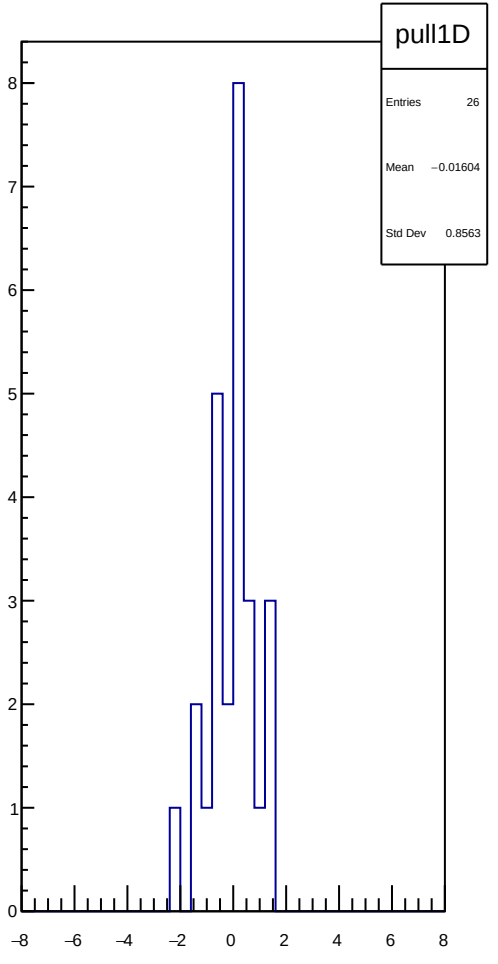

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 531.4 / 25
p0 57.67 ± 0.08145
68
66
64
62
60
58
56
54
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

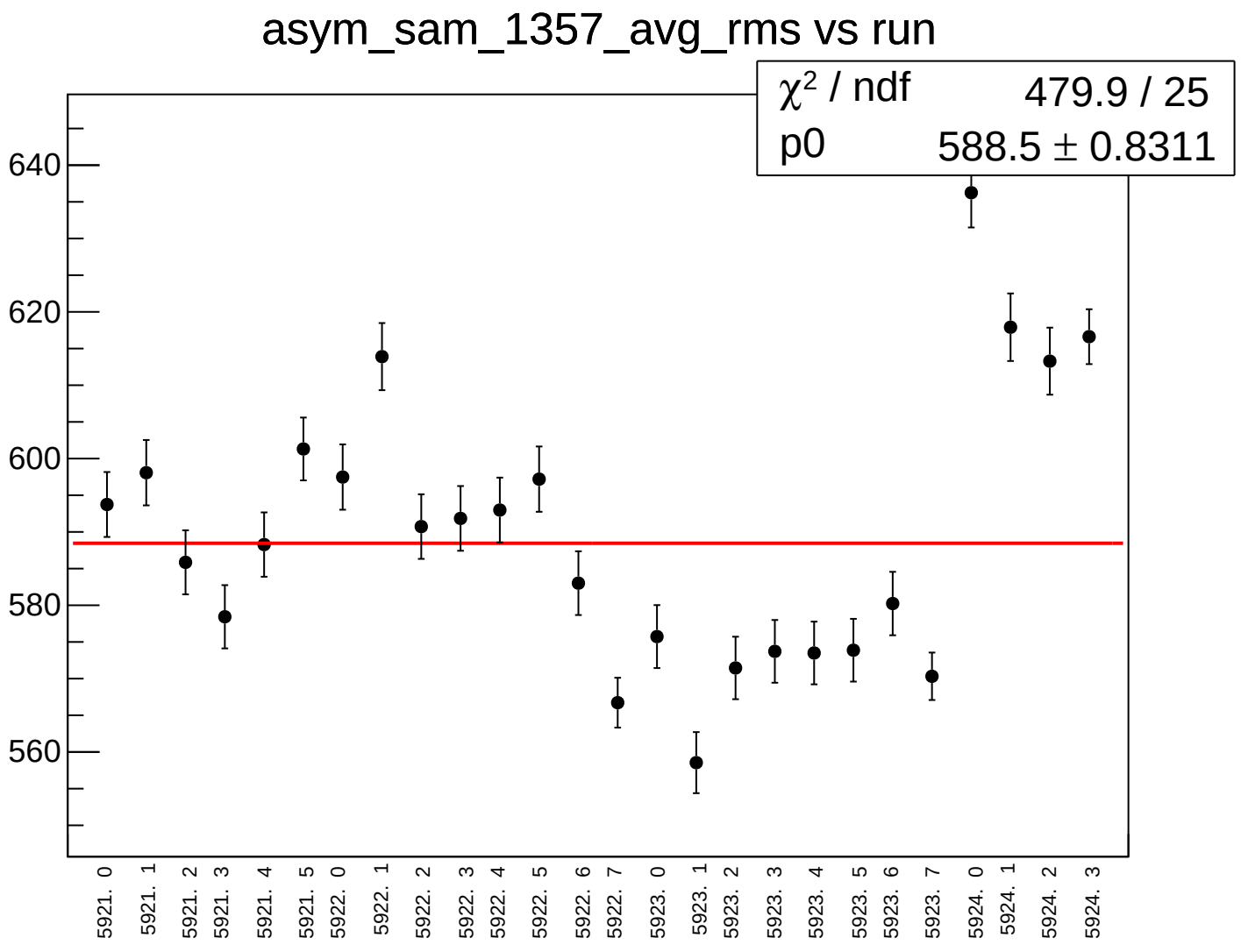

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 18.81 / 25
p0 248.9 ± 1170
20000
15000
10000
5000
0
−5000
−10000
−15000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 30.48
Std Dev 18.08
2
1.5
1
0.5
0
−0.5
−1
−1.5

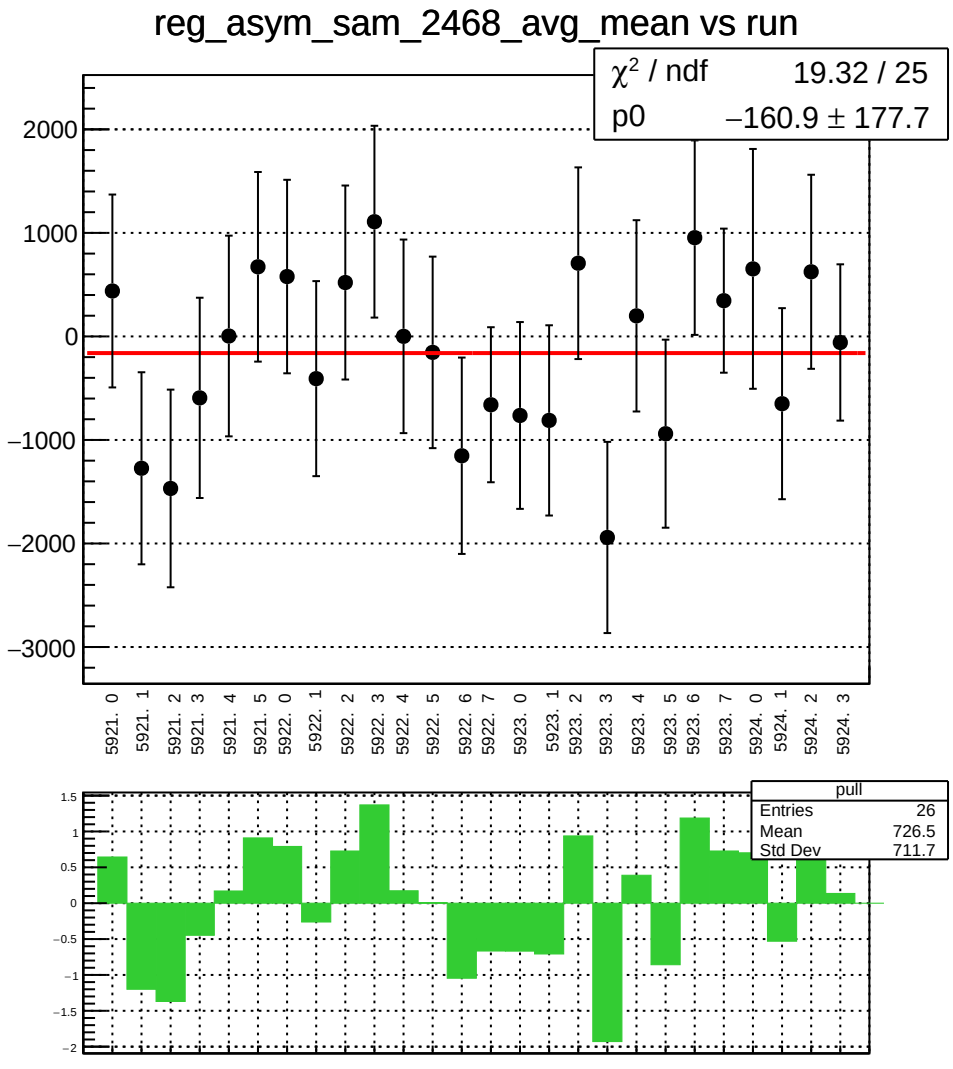

pull1D
Entries 26
Mean 0.01637
Std Dev 0.8503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

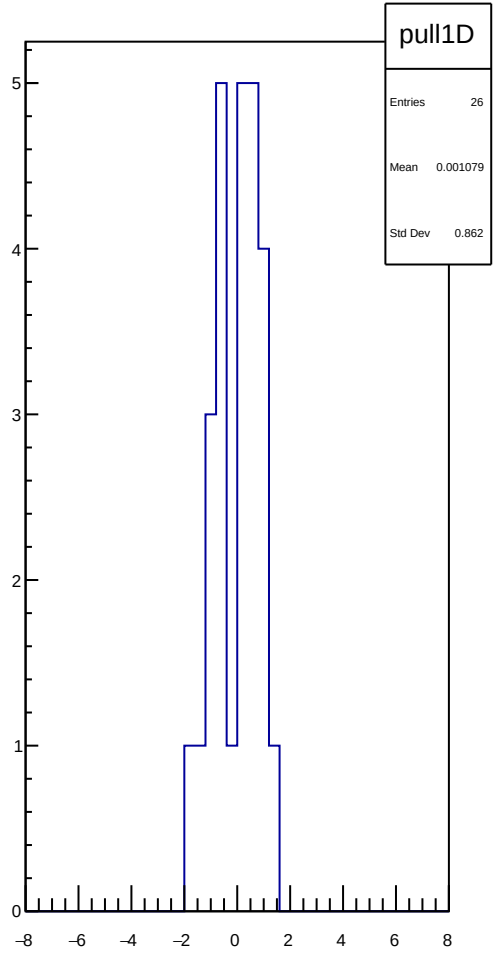

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 484.3 / 25
p0 585.6 ± 0.8271
640
620
600
580
560
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

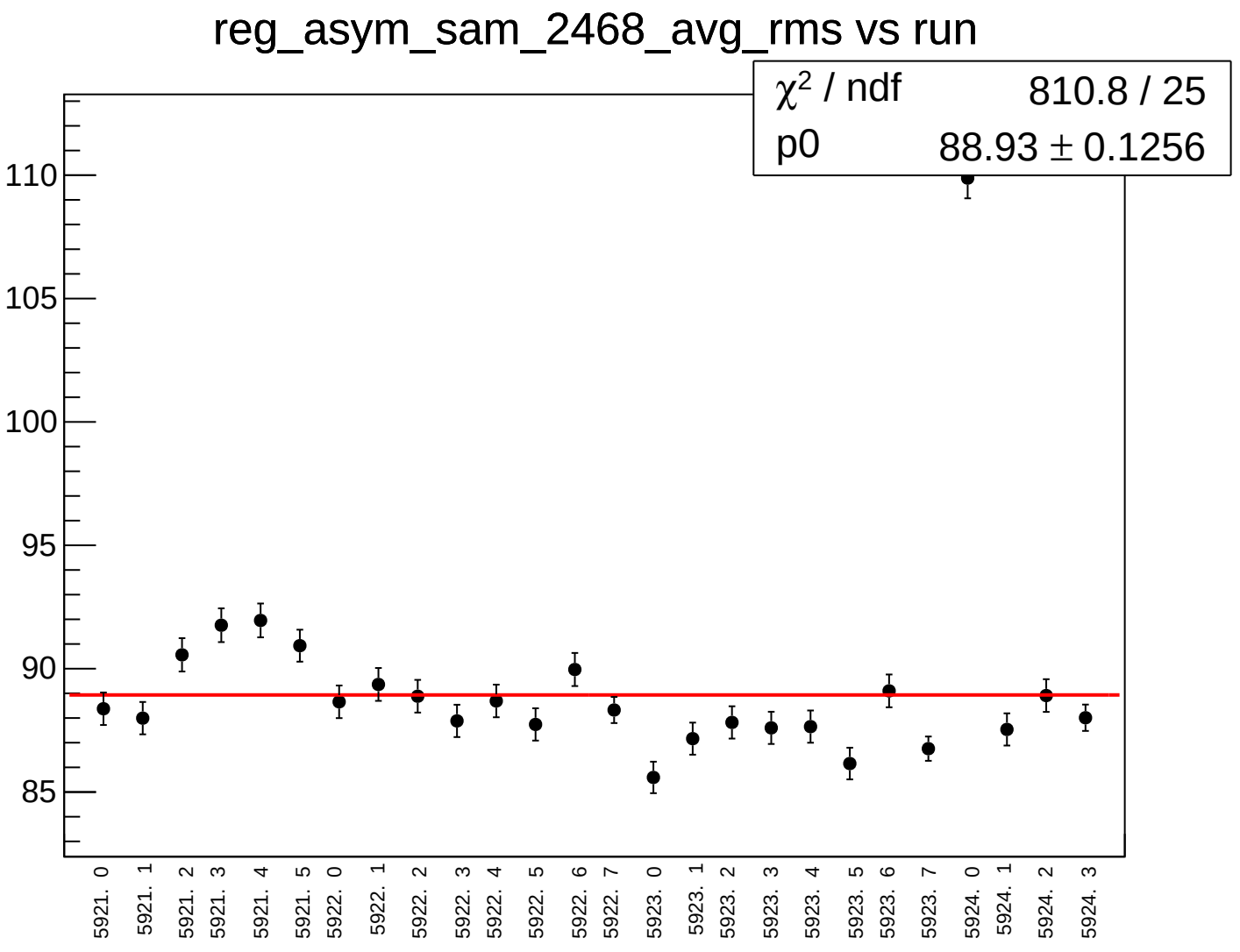

asym_sam_1357_avg_mean vs run
χ² / ndf 19.07 / 25
p0 −378.4 ± 1175
15000
10000
5000
0
−5000
−10000
−15000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 24.5
Std Dev 22.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2

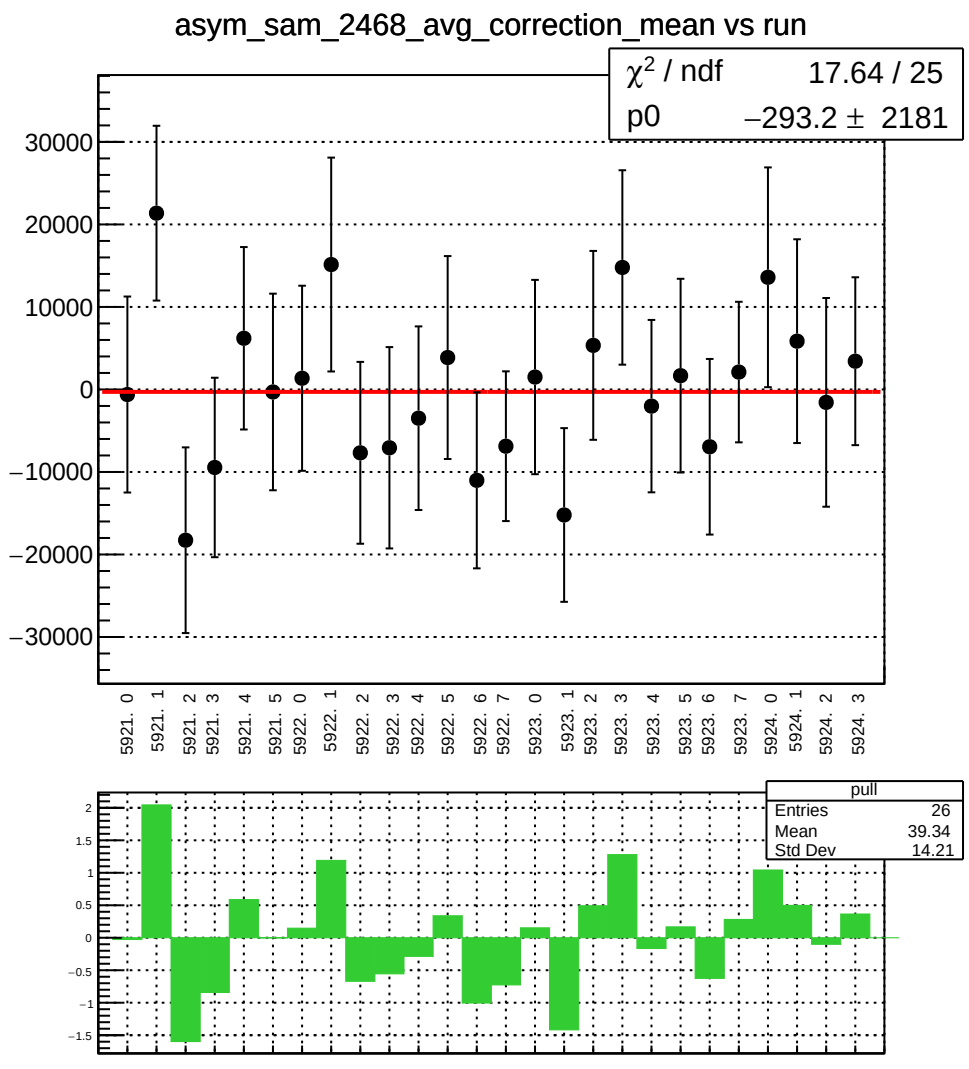

pull1D
Entries 26
Mean −0.01604
Std Dev 0.8563
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

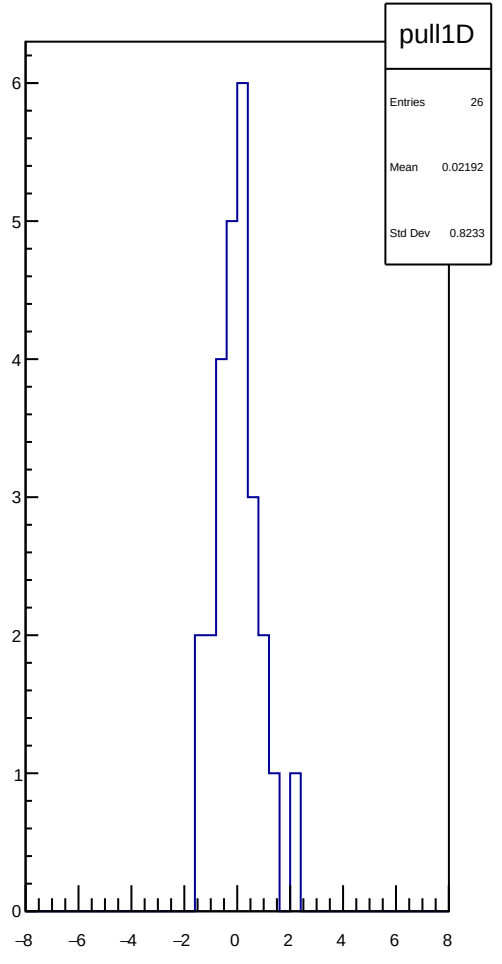

asym_sam_1357_avg_rms vs run
χ² / ndf 479.9 / 25
p0 588.5 ± 0.8311
640
620
600
580
560
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

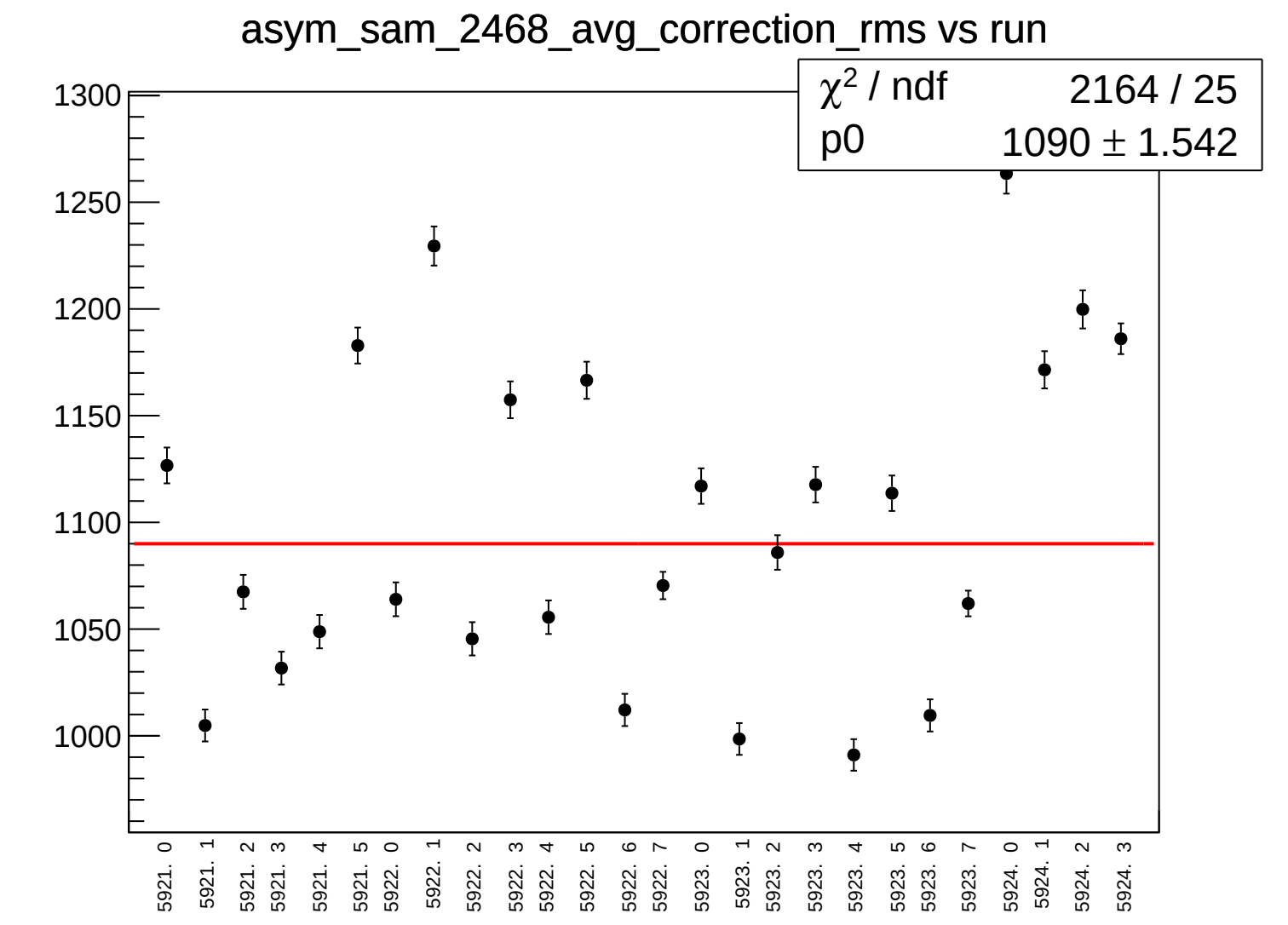

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 19.32 / 25
p0 −160.9 ± 177.7
2000
1000
0
−1000
−2000
−3000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 726.5
Std Dev 711.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

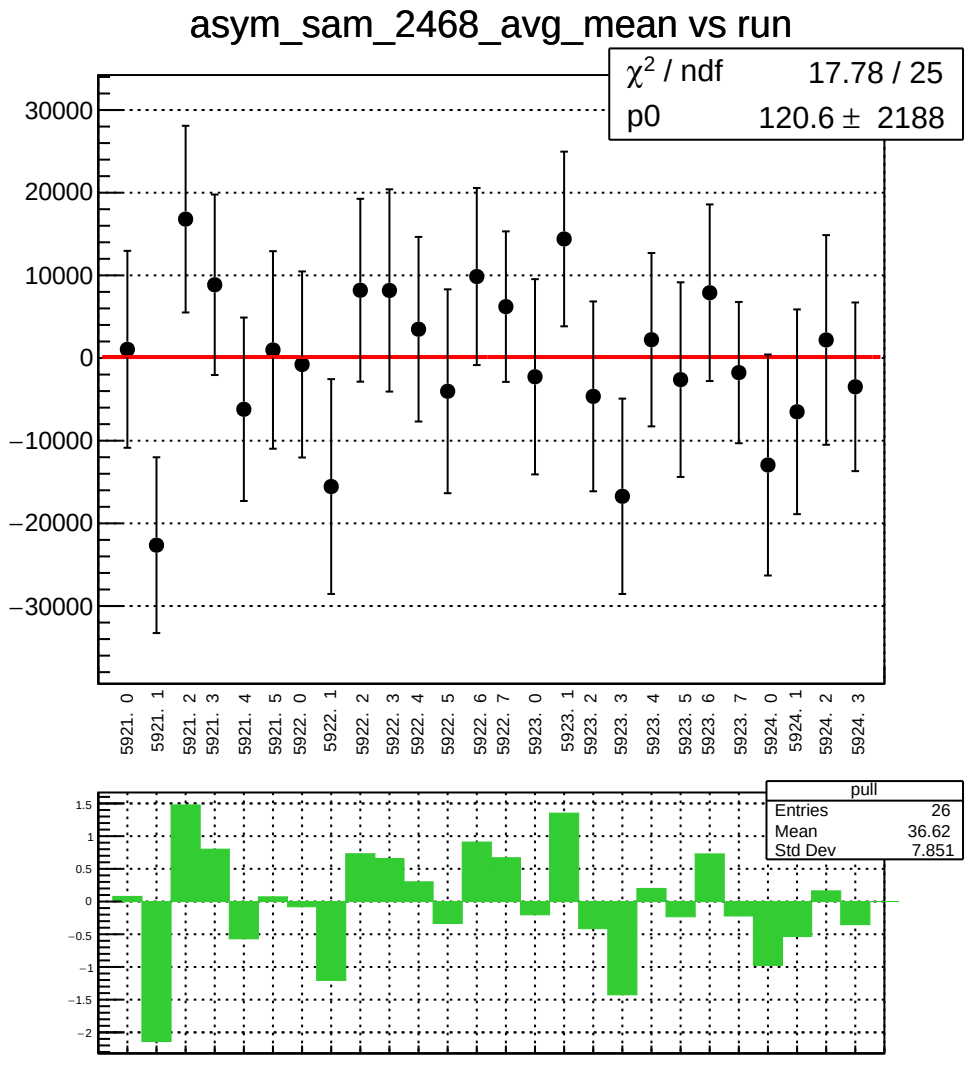

pull1D
Entries 26
Mean 0.001079
Std Dev 0.862
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

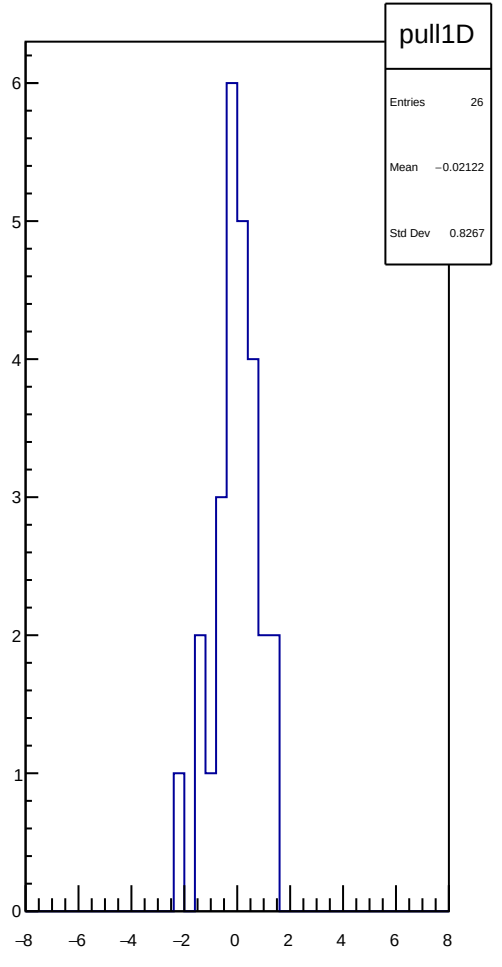

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 810.8 / 25
p0 88.93 ± 0.1256
110
105
100
95
90
85
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

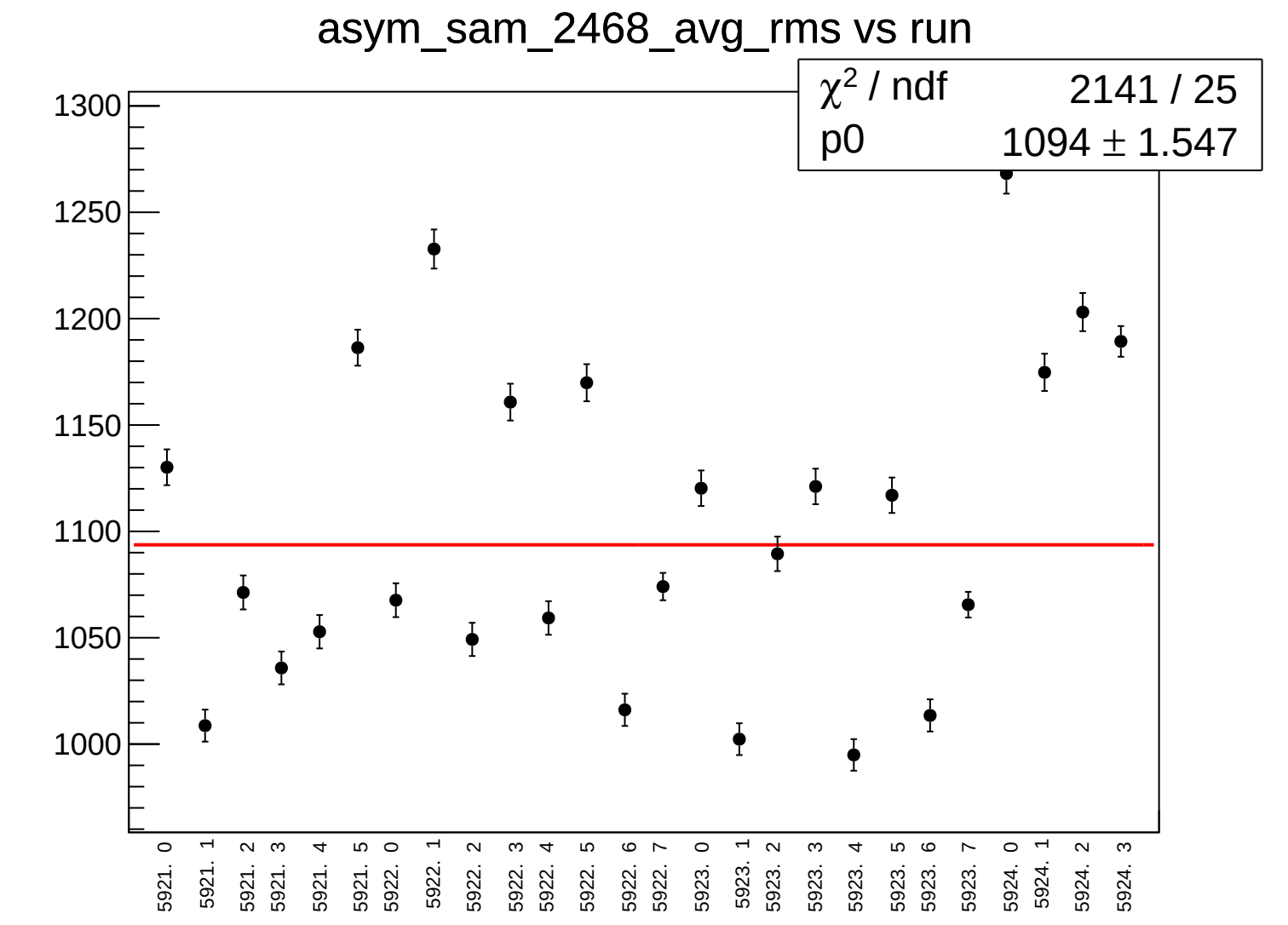

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 17.64 / 25
p0 −293.2 ± 2181
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 39.34
Std Dev 14.21
2
1.5
1
0.5
0
−0.5
−1
−1.5

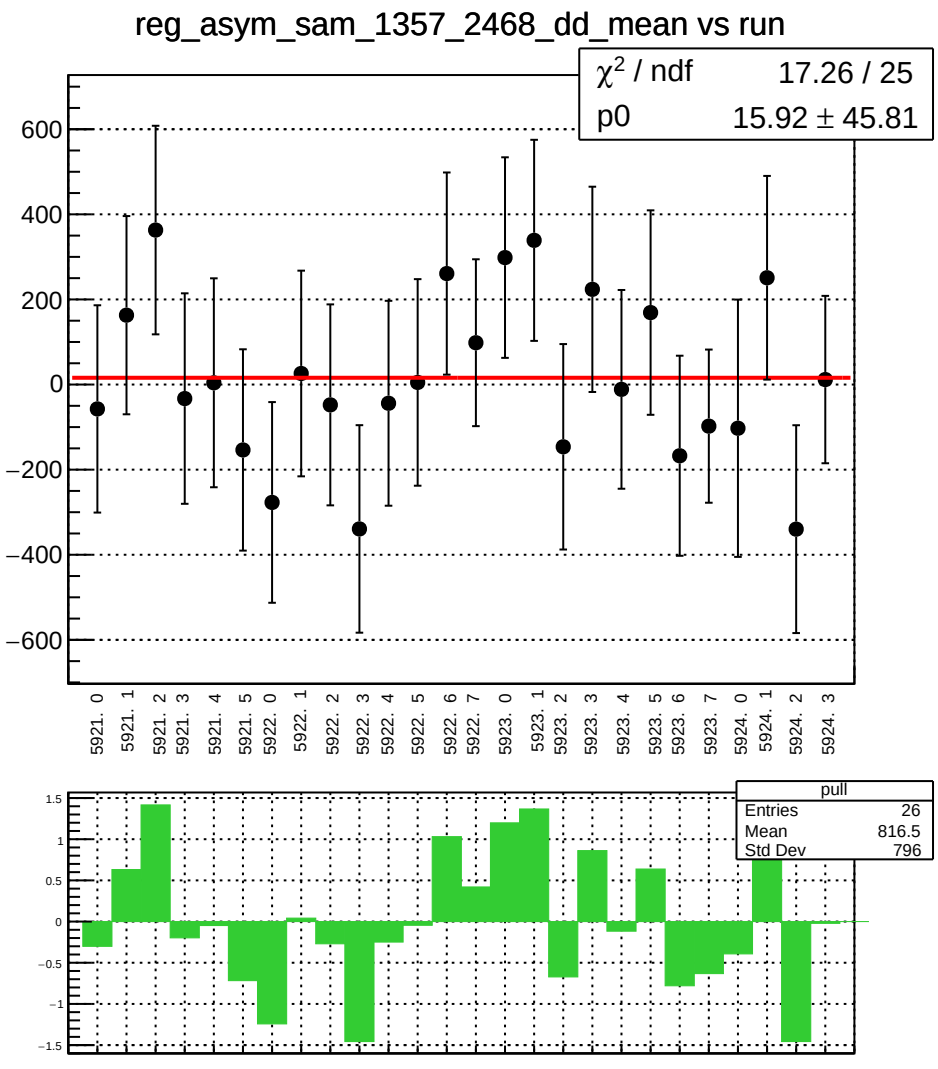

pull1D
Entries 26
Mean 0.02192
Std Dev 0.8233
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

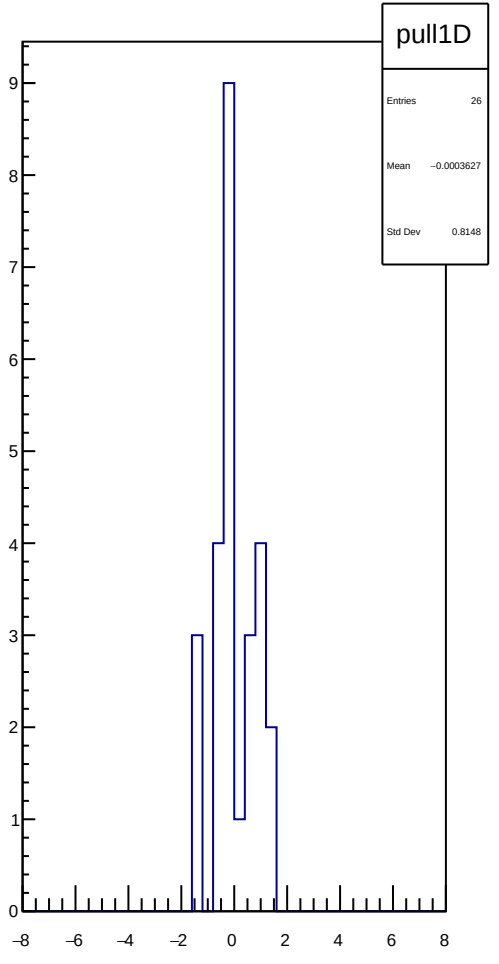

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2164 / 25
p0 1090 ± 1.542
1300
1250
1200
1150
1100
1050
1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

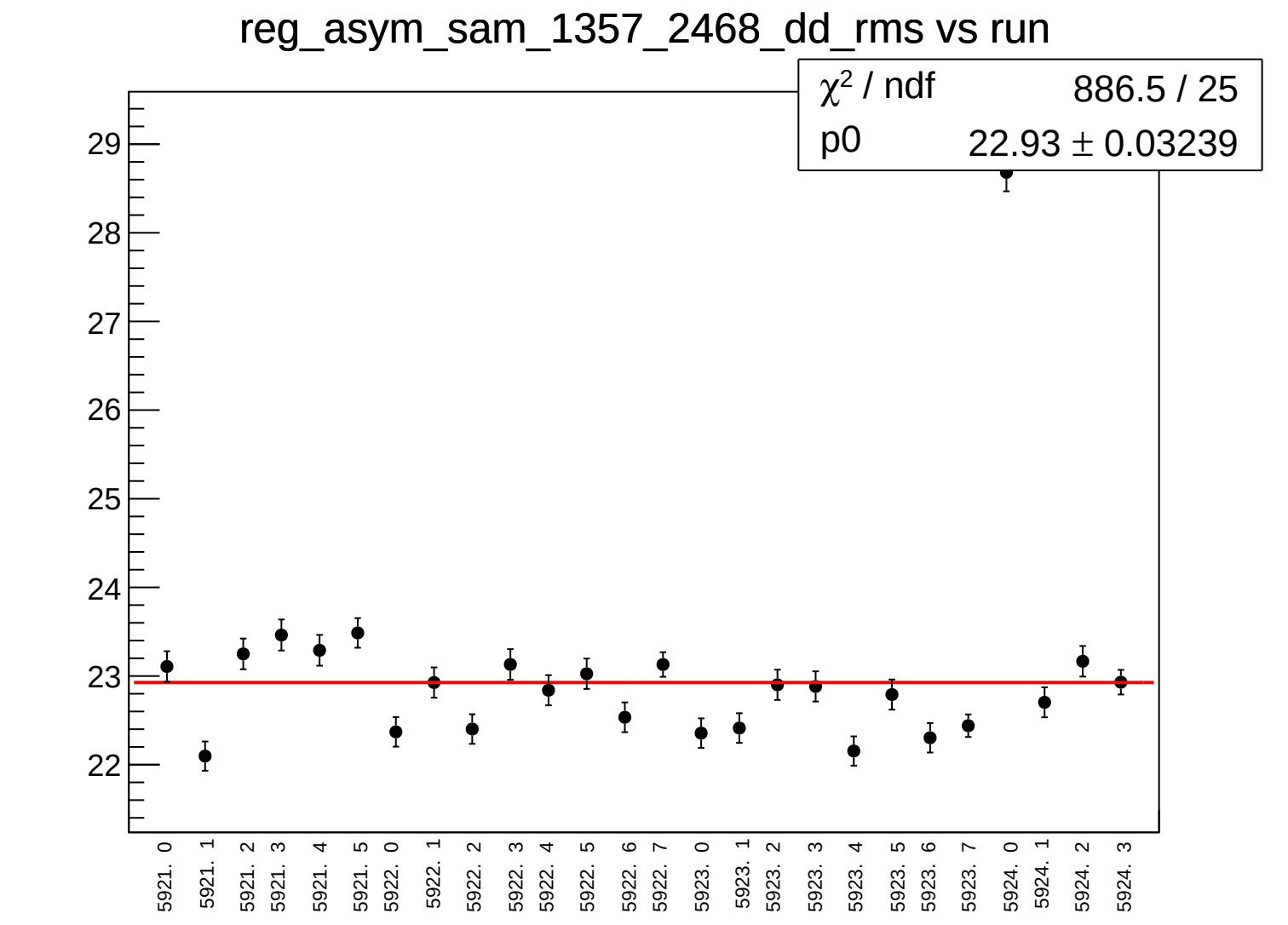

asym_sam_2468_avg_mean vs run
$\chi^2$ / ndf 17.78 / 25
p0 120.6 ± 2188
30000
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 36.62
Std Dev 7.851
1.5
1
0.5
0
−0.5
−1
−1.5
−2

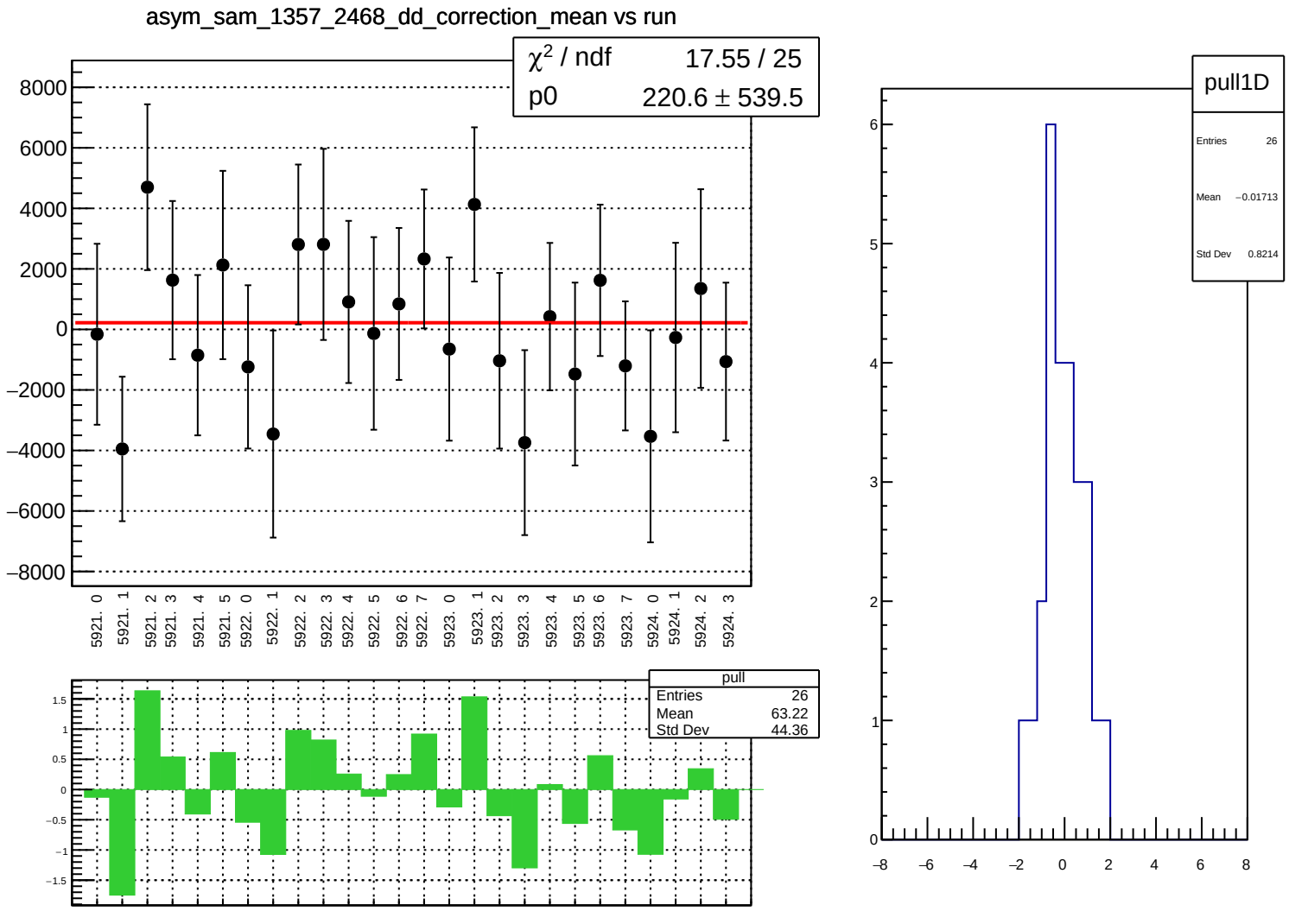

pull1D
Entries 26
Mean −0.02122
Std Dev 0.8267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

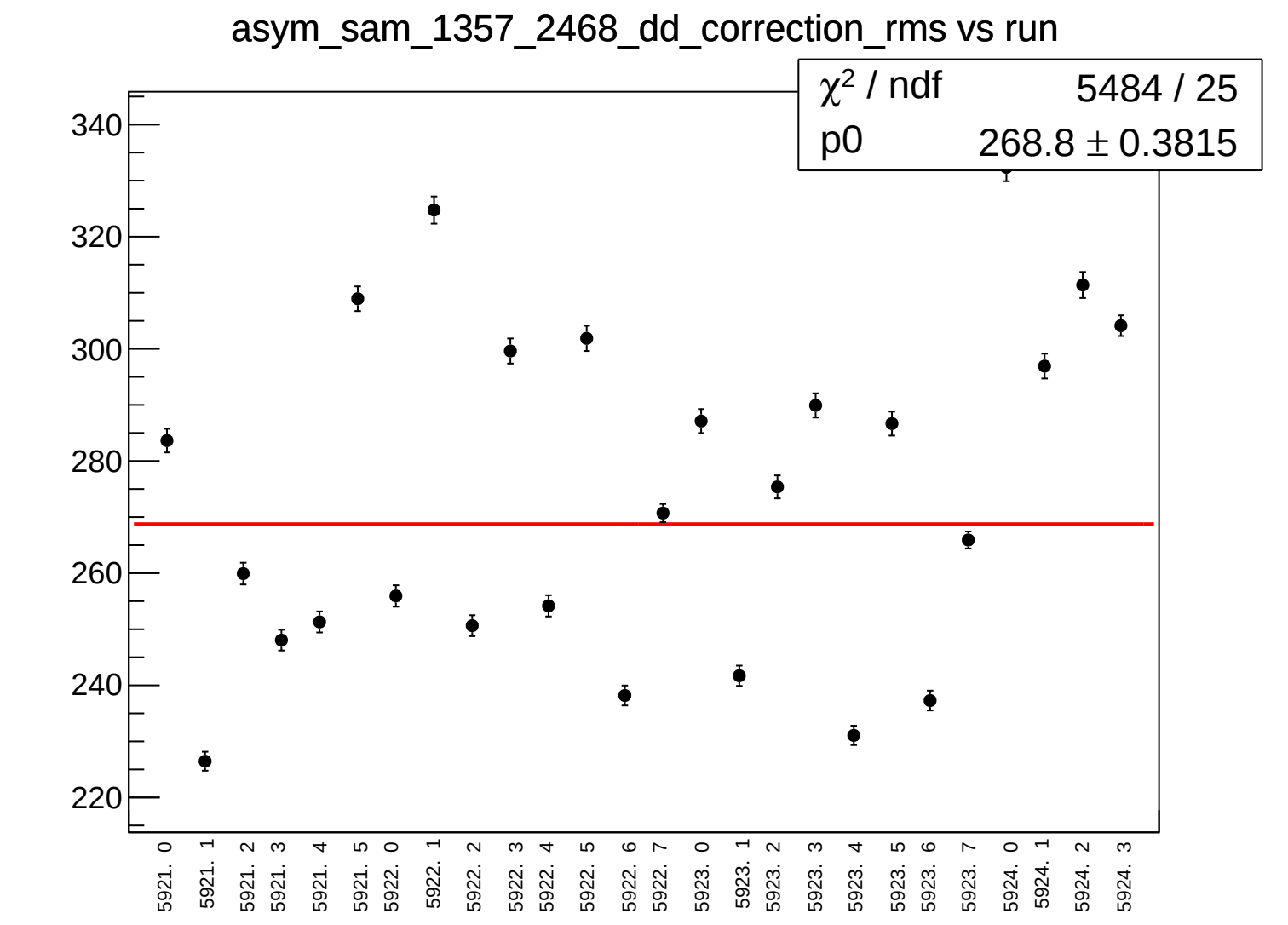

asym_sam_2468_avg_rms vs run
χ² / ndf 2141 / 25
p0 1094 ± 1.547
1300
1250
1200
1150
1100
1050
1000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

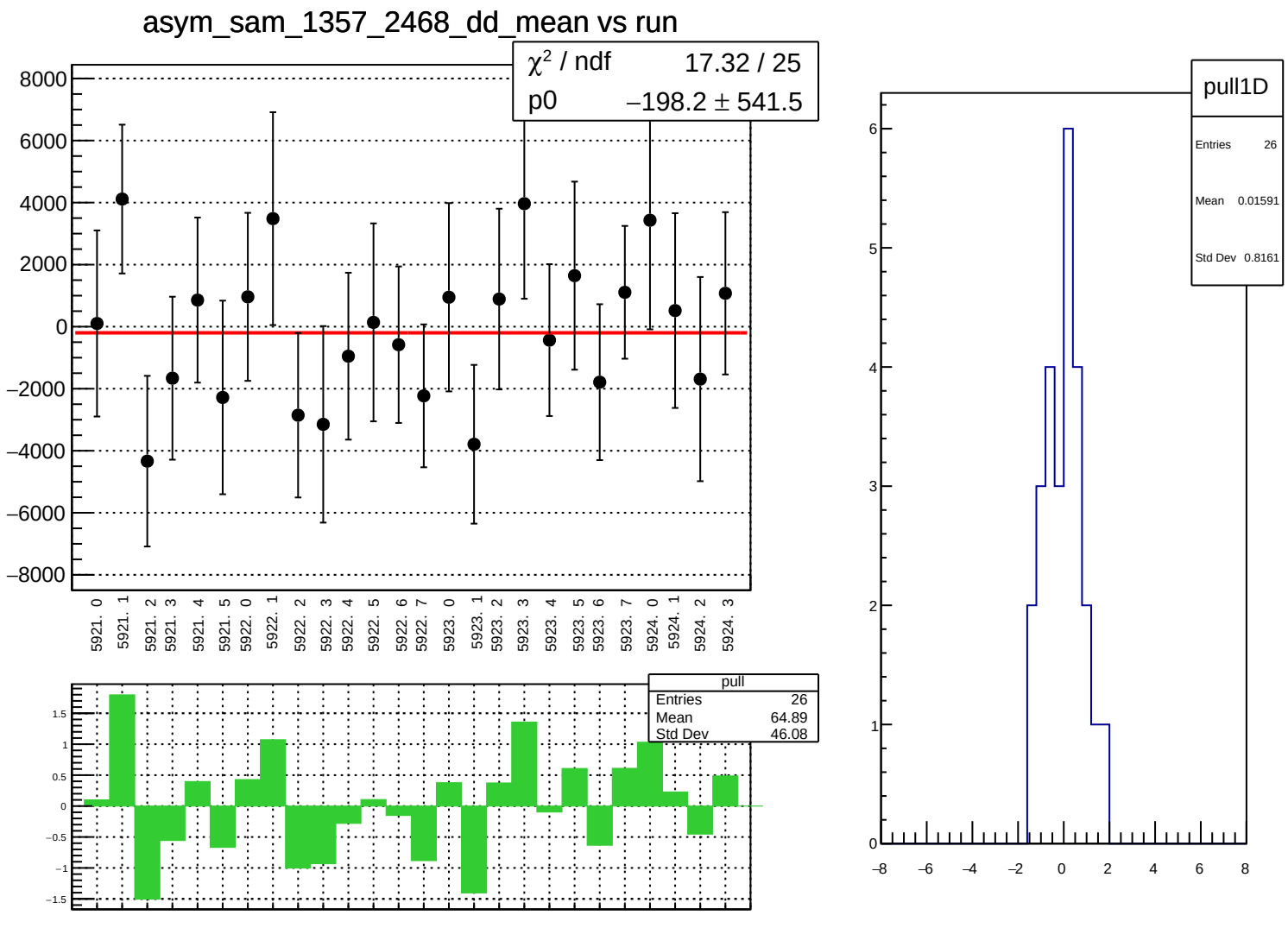

reg_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 17.26 / 25
p0 15.92 ± 45.81
600
400
200
0
−200
−400
−600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 816.5
Std Dev 796
1.5
1
0.5
0
−0.5
−1
−1.5

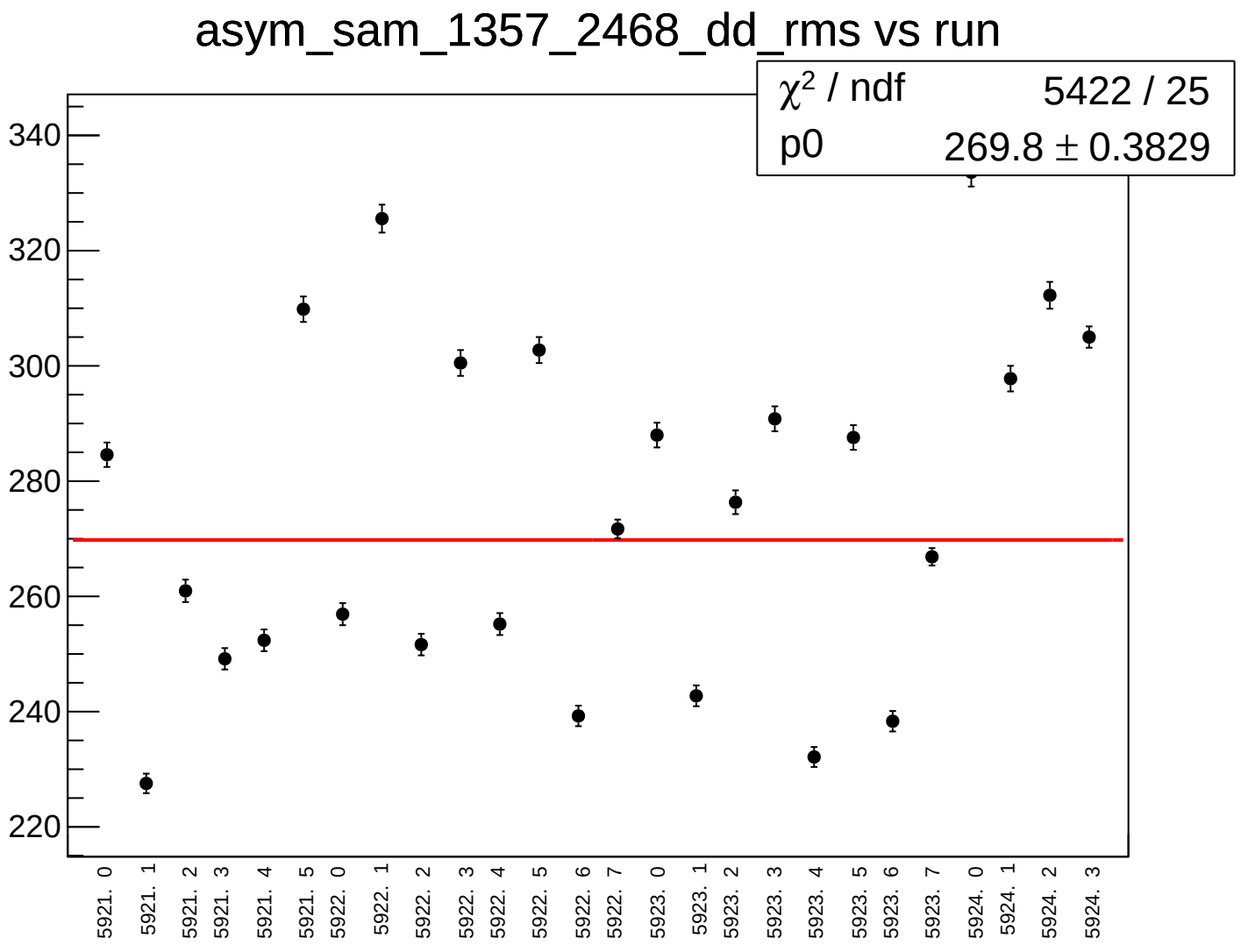

pull1D
Entries 26
Mean −0.0003627
Std Dev 0.8148
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

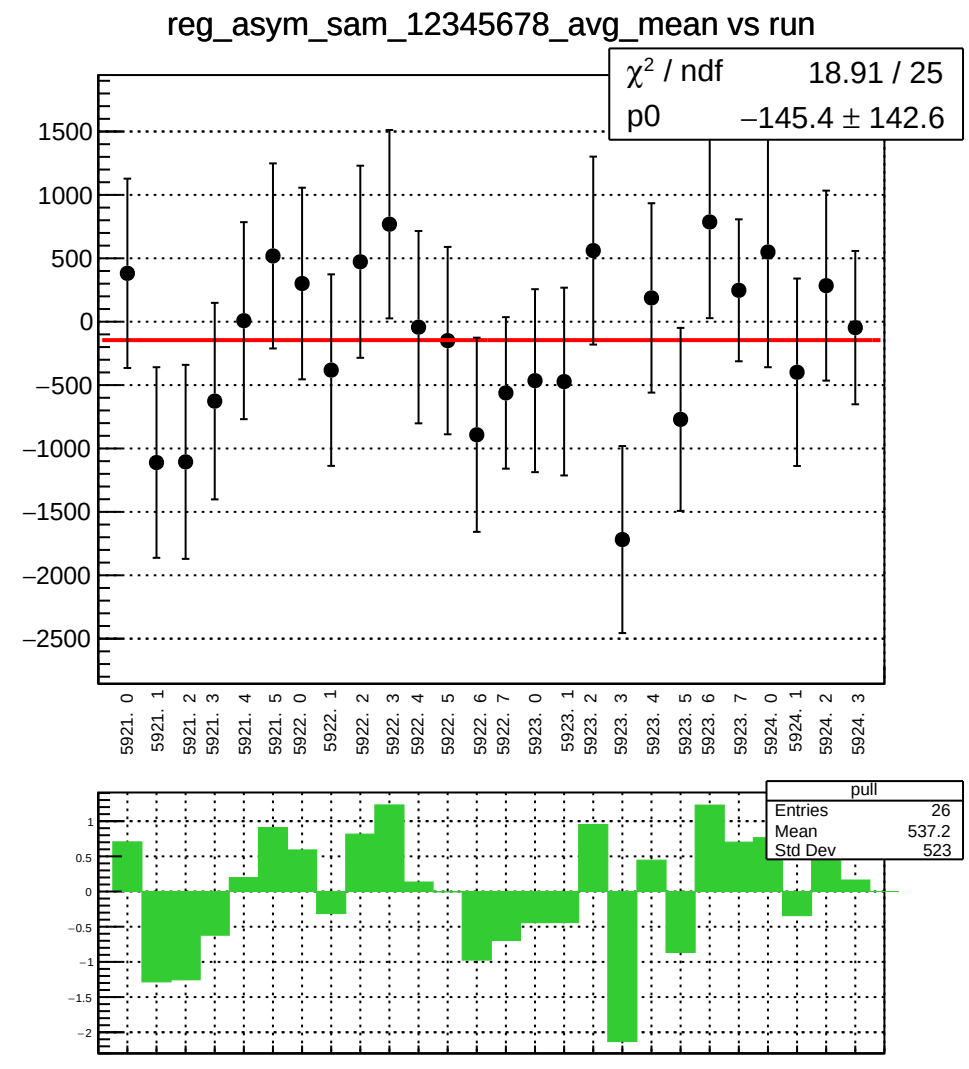

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 886.5 / 25
p0 22.93 ± 0.03239
29
28
27
26
25
24
23
22
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

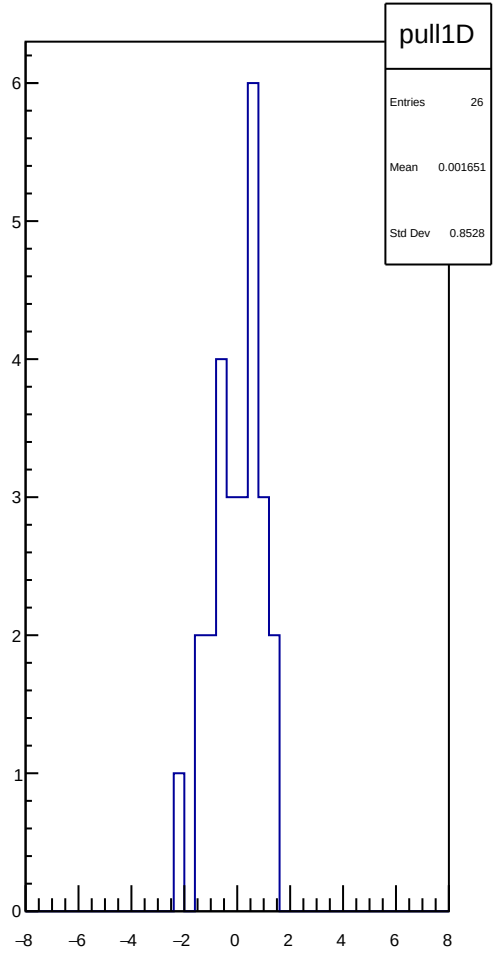

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 17.55 / 25
p0 220.6 ± 539.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 63.22
Std Dev 44.36
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01713
Std Dev 0.8214
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

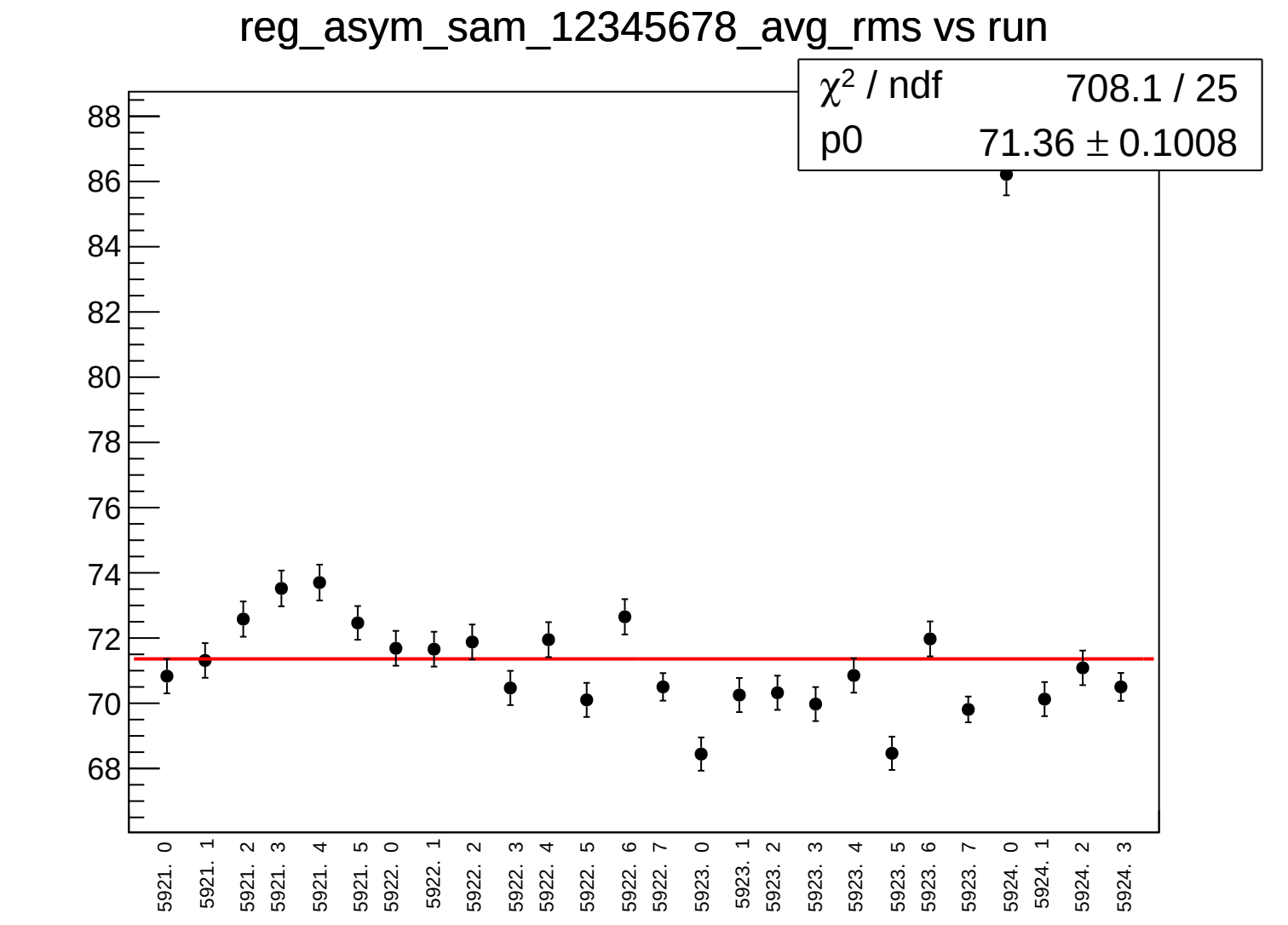

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5484 / 25
p0 268.8 ± 0.3815
340
320
300
280
260
240
220
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

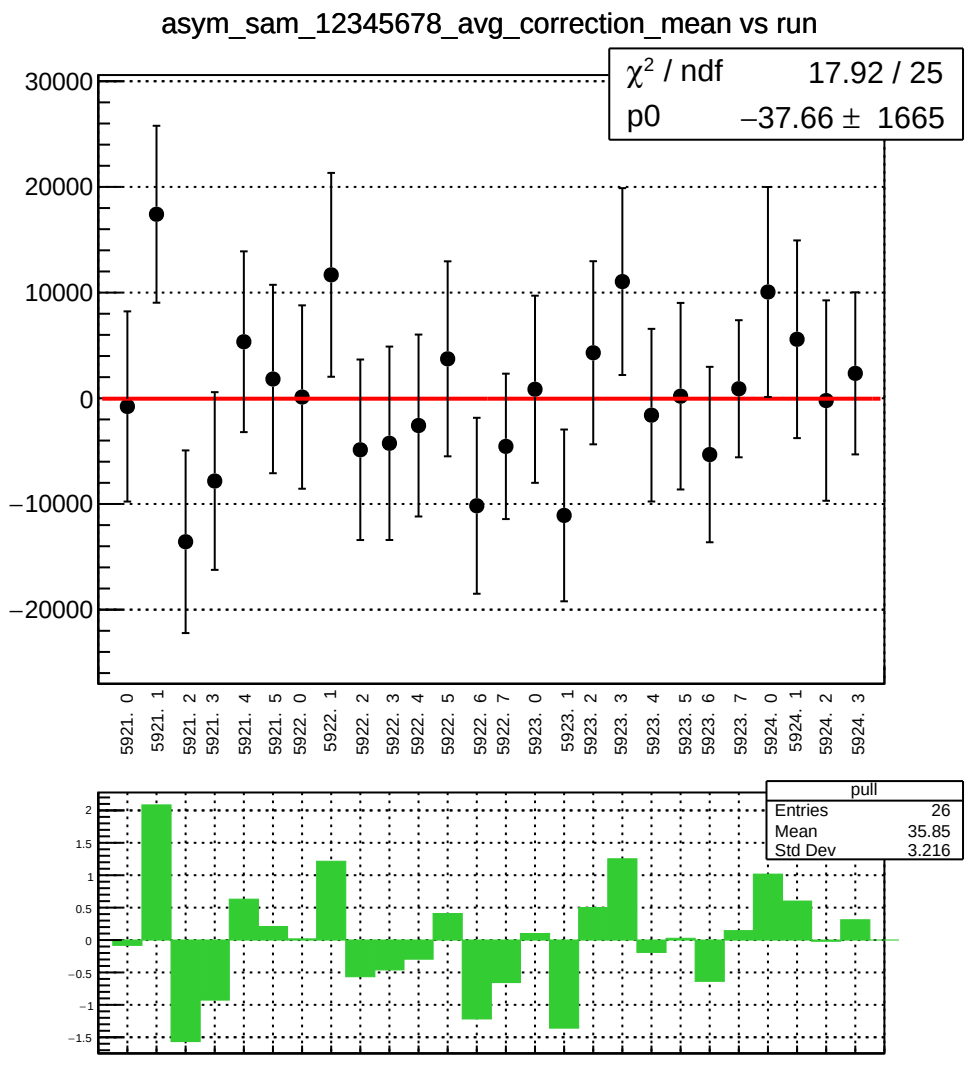

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 17.32 / 25
p0 −198.2 ± 541.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 64.89
Std Dev 46.08
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01591
Std Dev 0.8161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

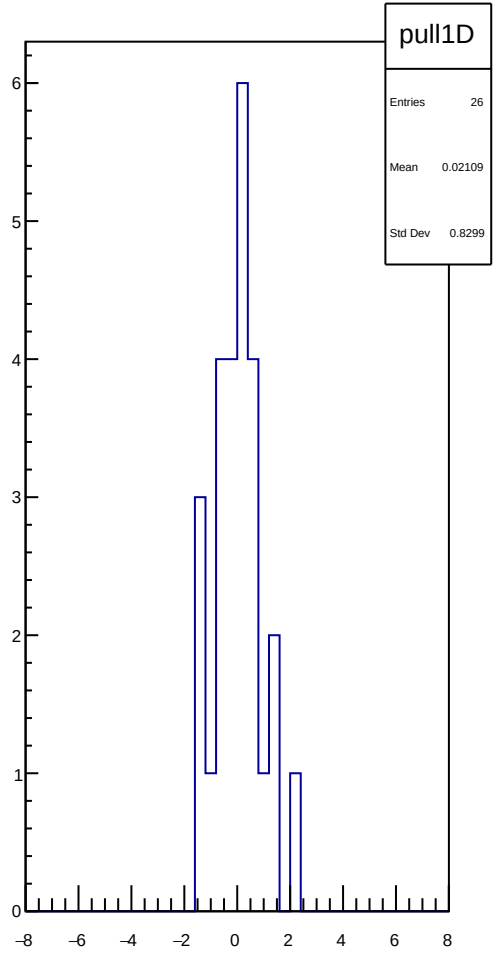

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5422 / 25
p0 269.8 ± 0.3829
340
320
300
280
260
240
220
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

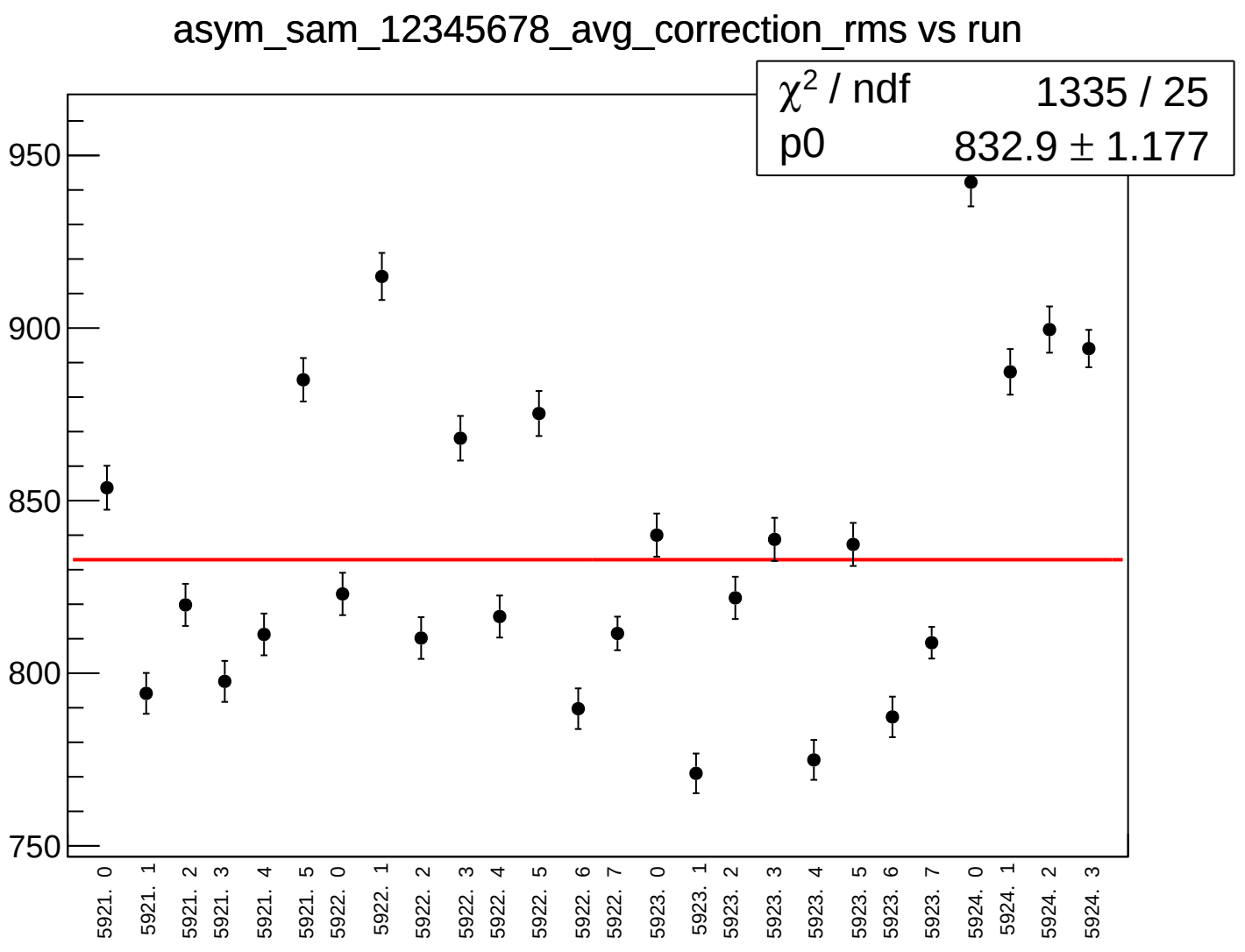

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 18.91 / 25
p0 −145.4 ± 142.6
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 537.2
Std Dev 523
1
0.5
0
−0.5
−1
−1.5
−2

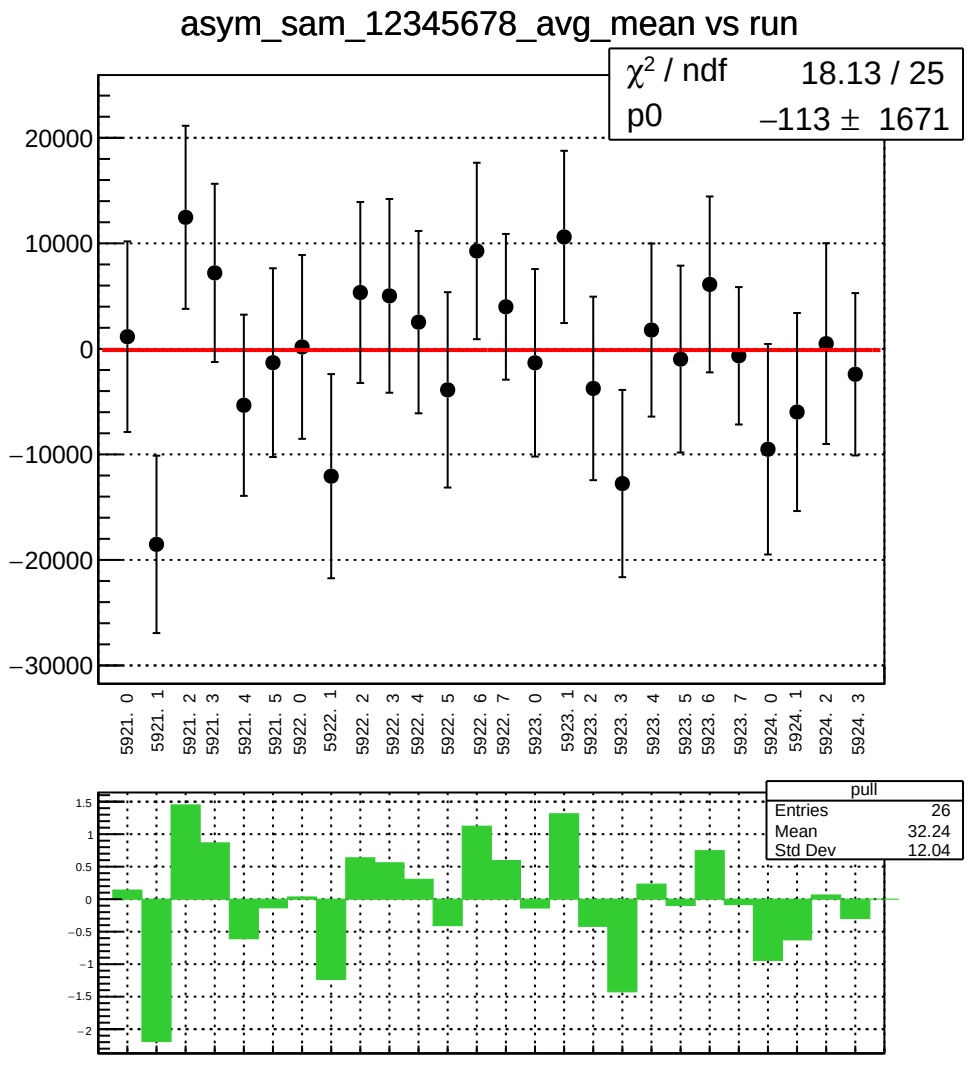

pull1D
Entries 26
Mean 0.001651
Std Dev 0.8528
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

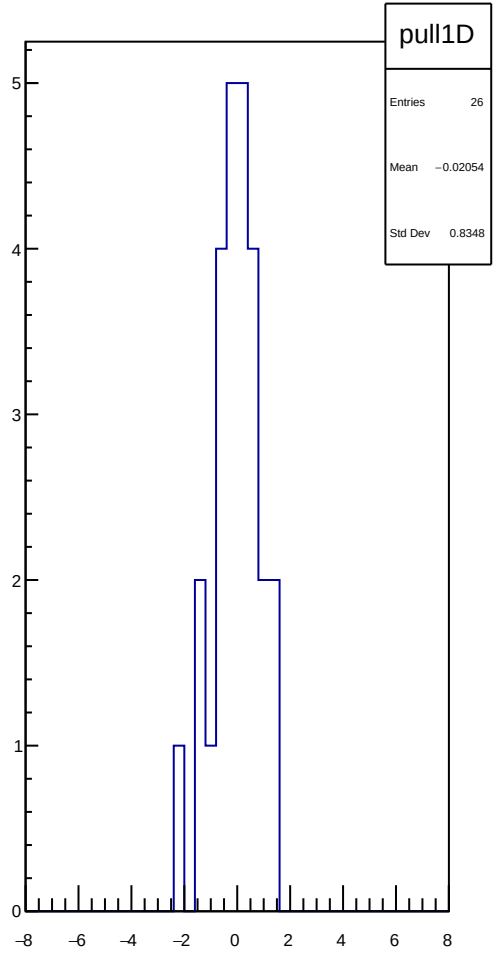

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 708.1 / 25
p0 71.36 ± 0.1008
88
86
84
82
80
78
76
74
72
70
68
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

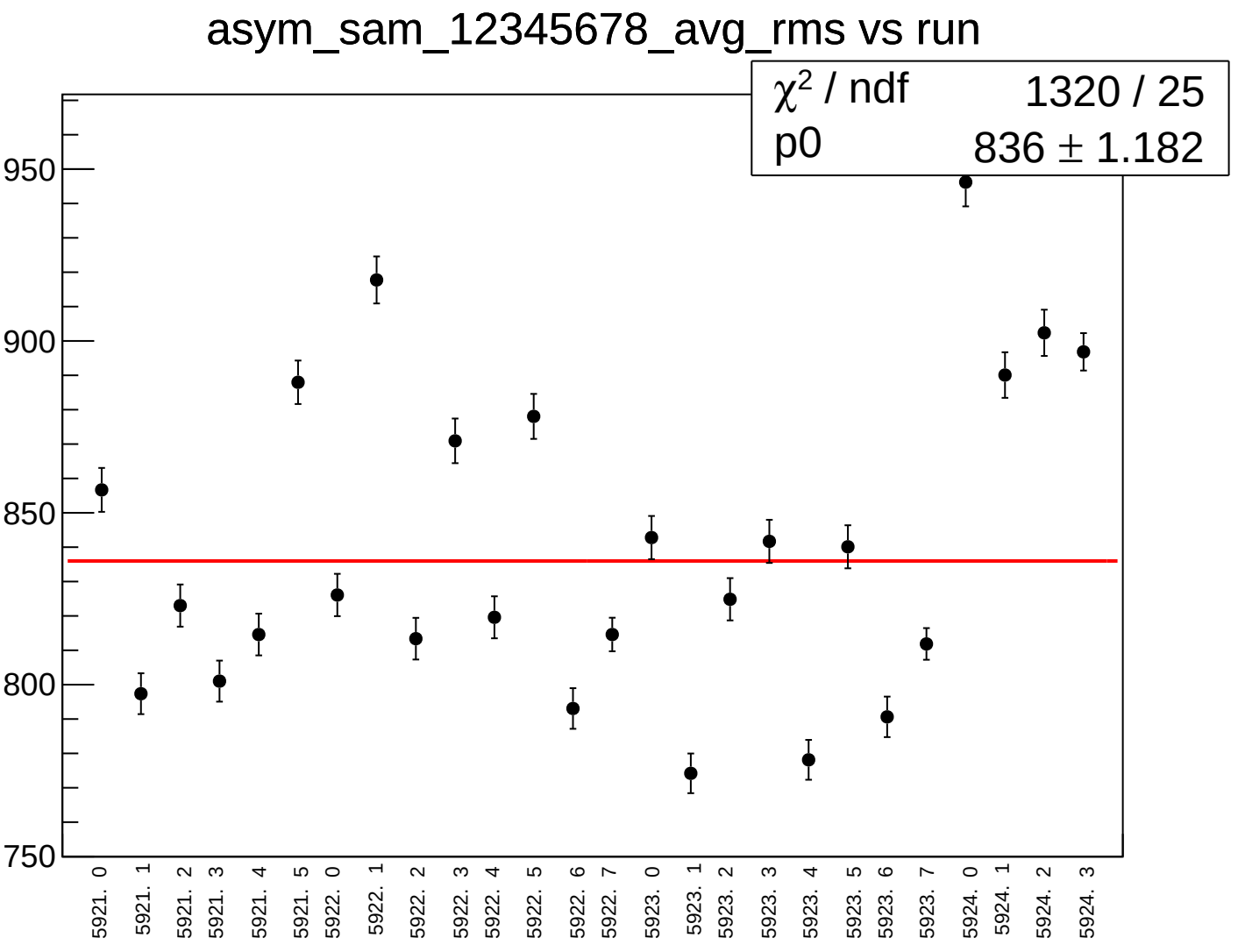

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 17.92 / 25
p0 −37.66 ± 1665
30000
20000
10000
0
−10000
−20000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 35.85
Std Dev 3.216
2
1.5
1
0.5
0
−0.5
−1
−1.5

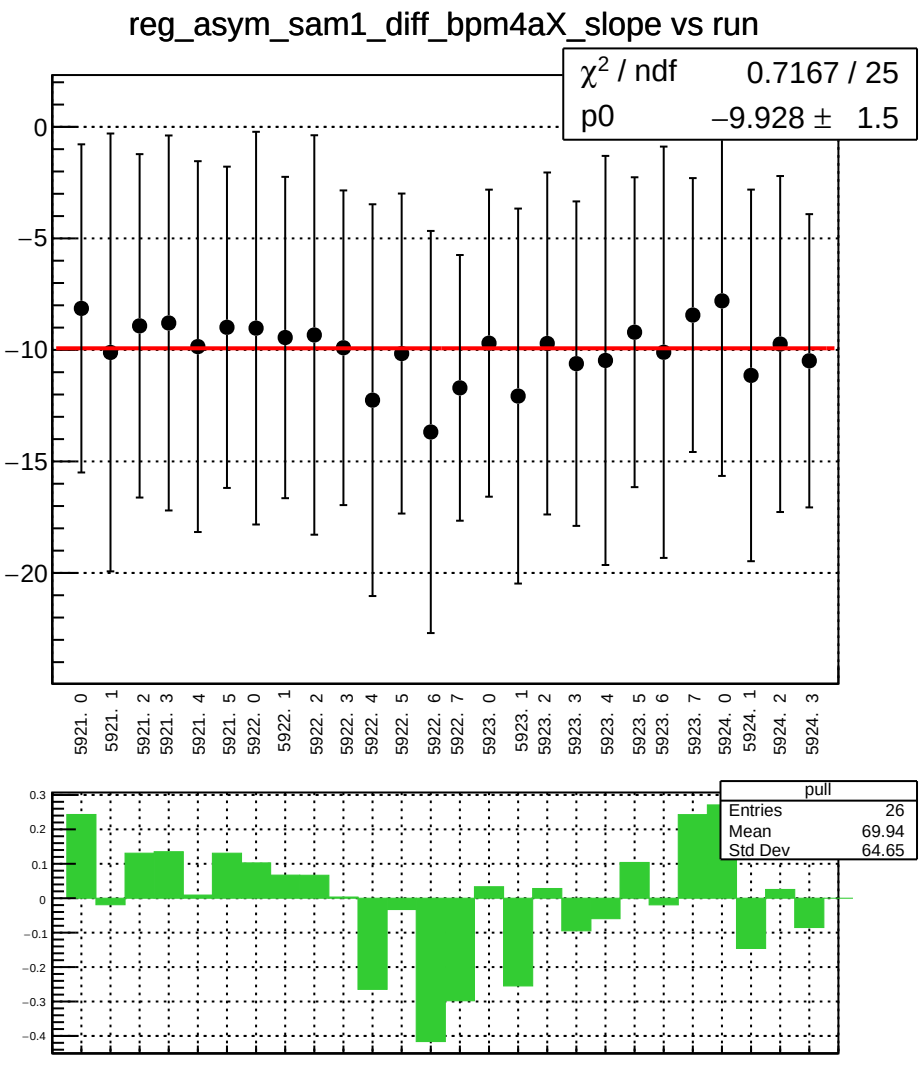

pull1D
Entries 26
Mean 0.02109
Std Dev 0.8299
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

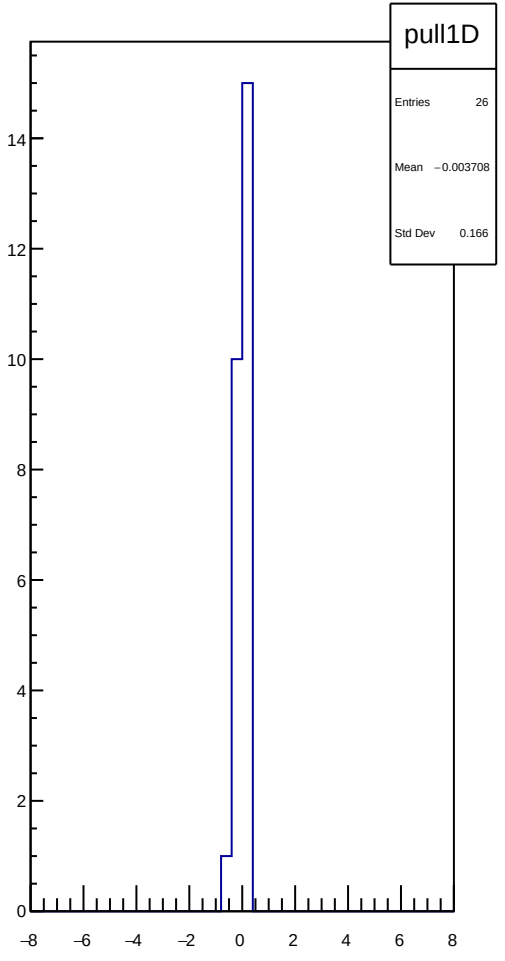

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1335 / 25
p0 832.9 ± 1.177
950
900
850
800
750
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

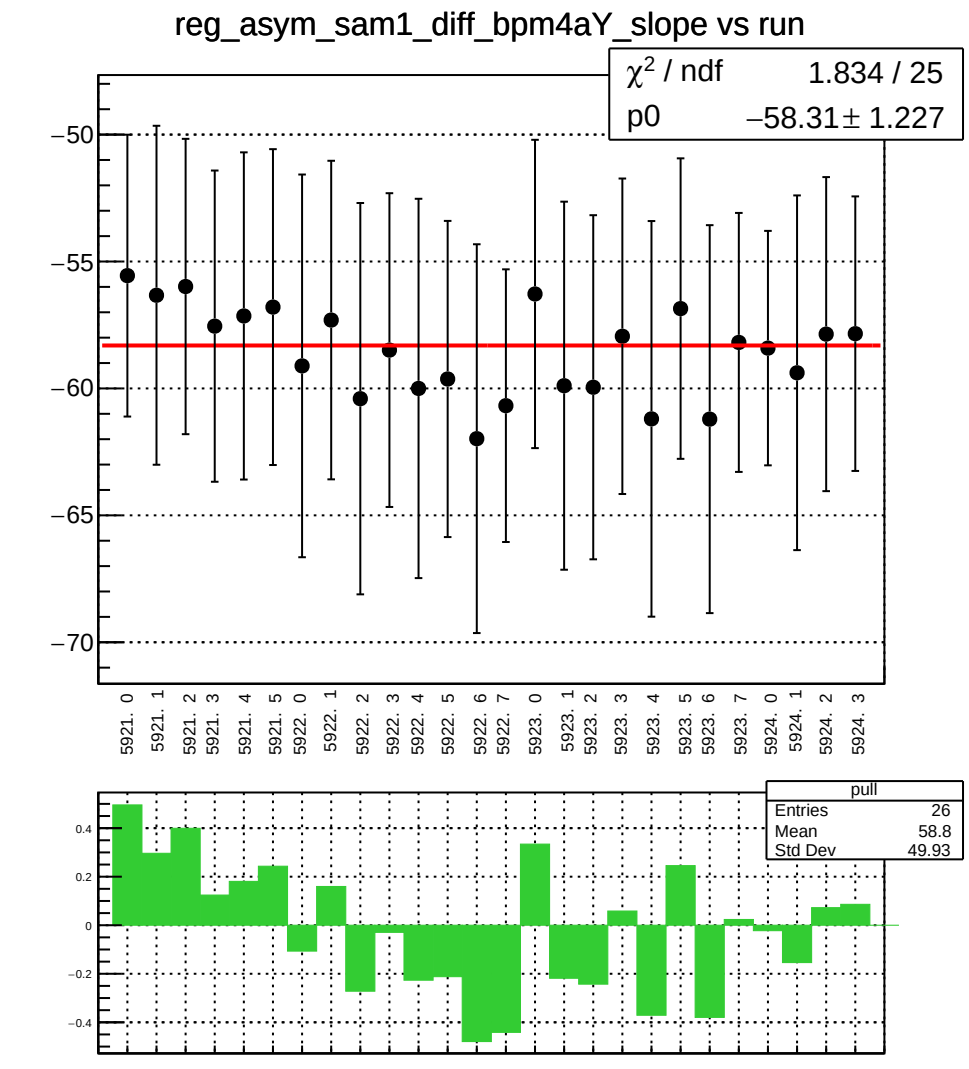

asym_sam_12345678_avg_mean vs run
χ² / ndf 18.13 / 25
p0 −113 ± 1671
20000
10000
0
−10000
−20000
−30000
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 32.24
Std Dev 12.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

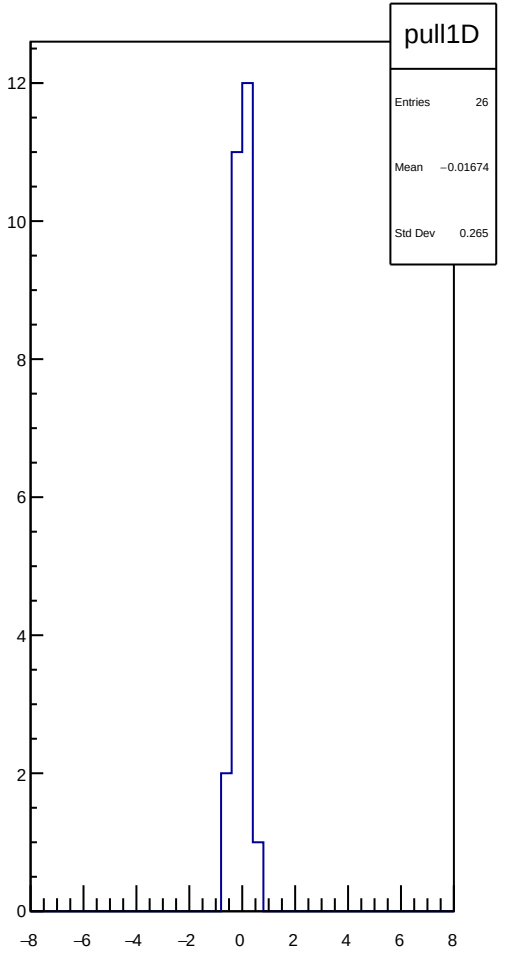

pull1D
Entries 26
Mean −0.02054
Std Dev 0.8348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

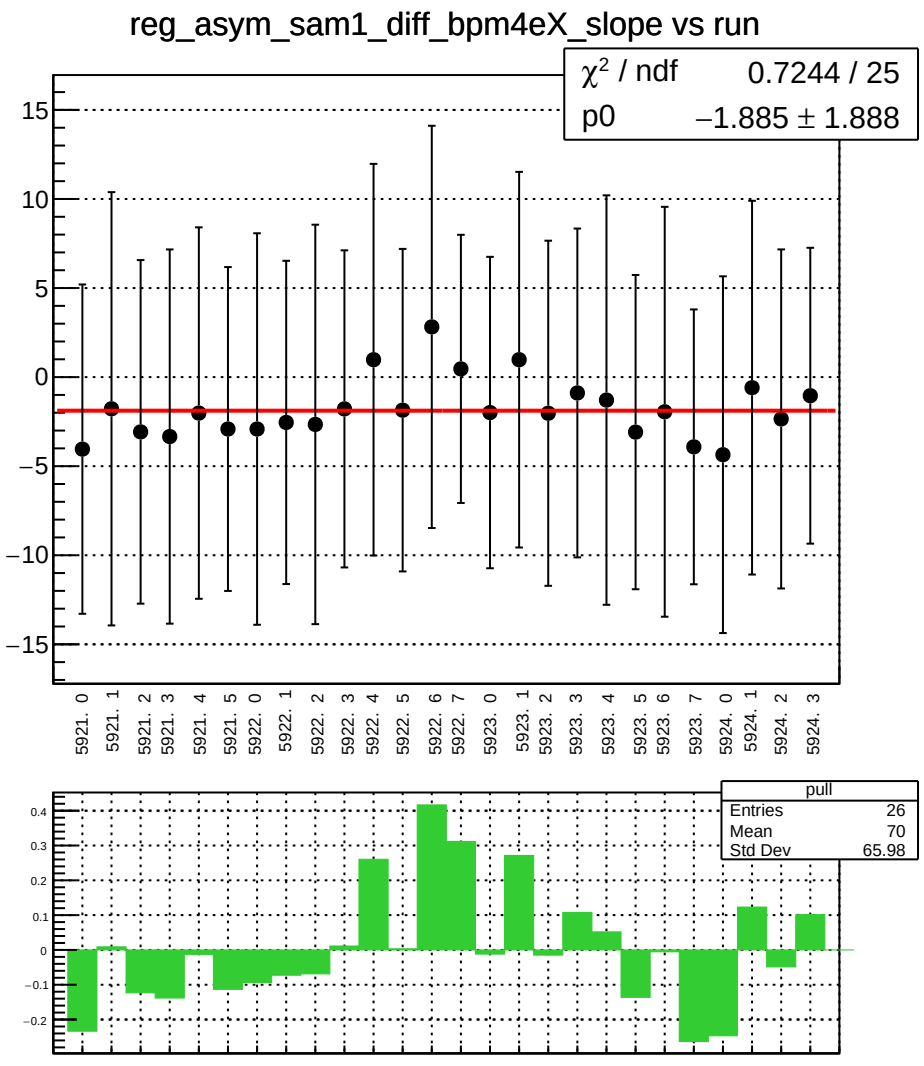

asym_sam_12345678_avg_rms vs run
χ² / ndf 1320 / 25
p0 836 ± 1.182
950
900
850
800
750
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

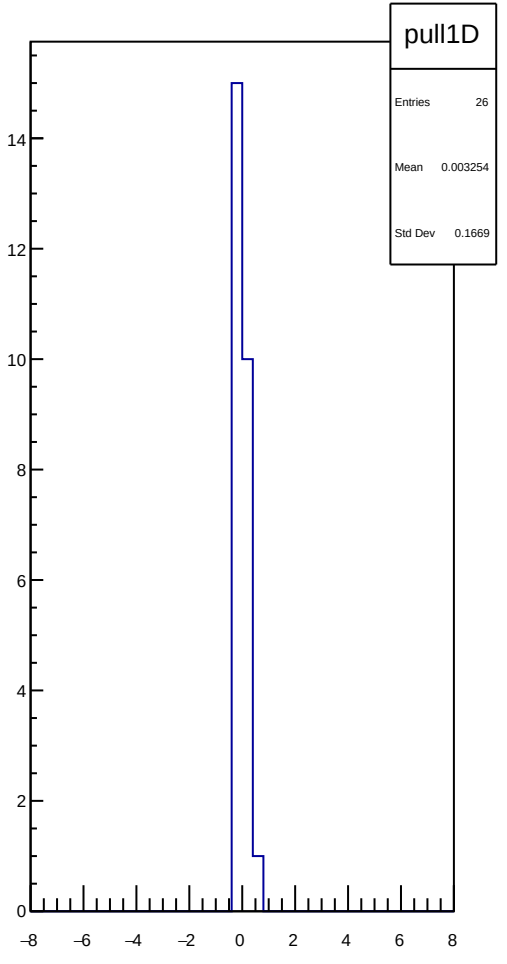

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 0.7167 / 25
p0 −9.928 ± 1.5
0
−5
−10
−15
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 69.94
Std Dev 64.65
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

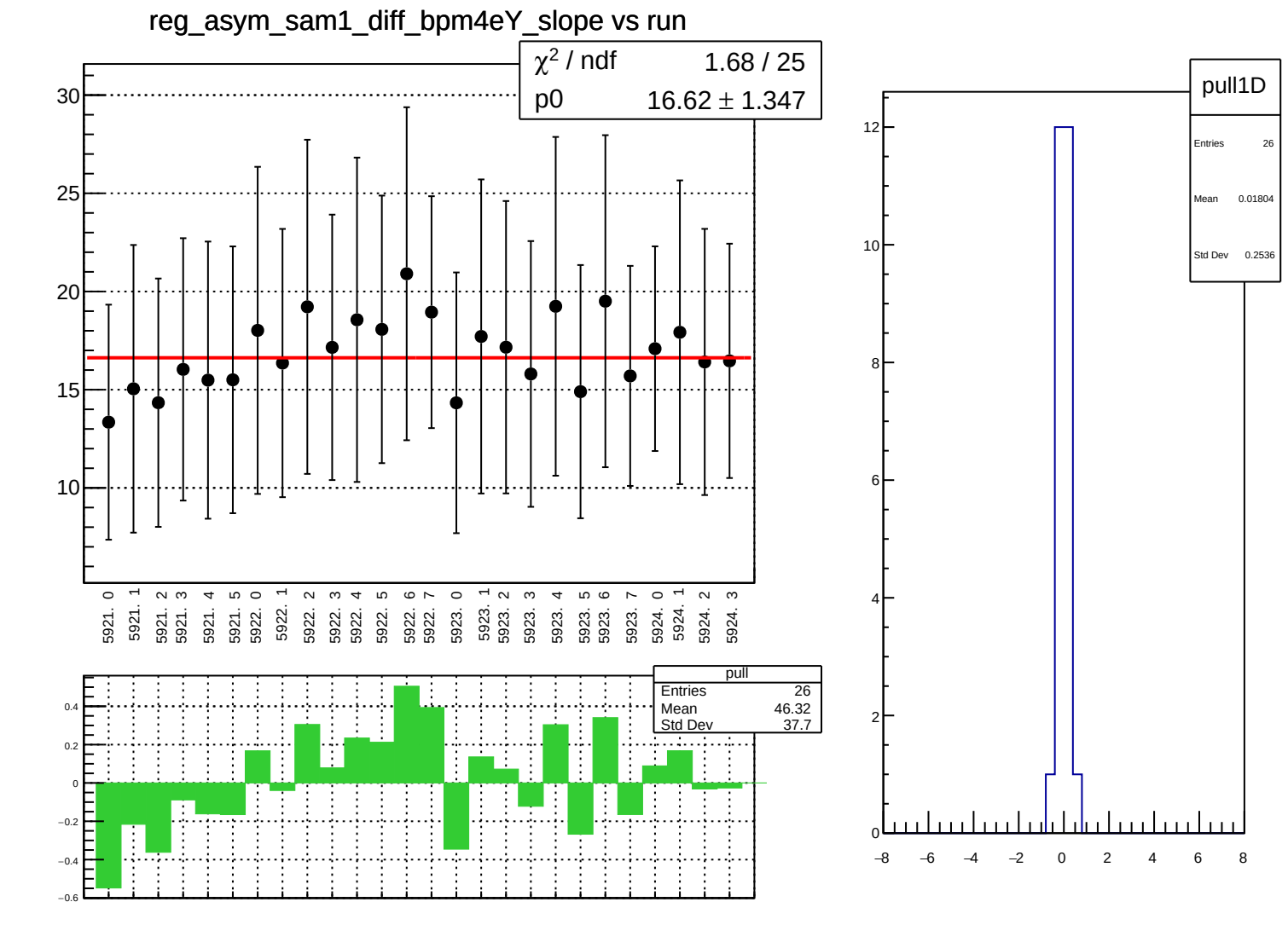

pull1D
Entries 26
Mean −0.003708
Std Dev 0.166
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

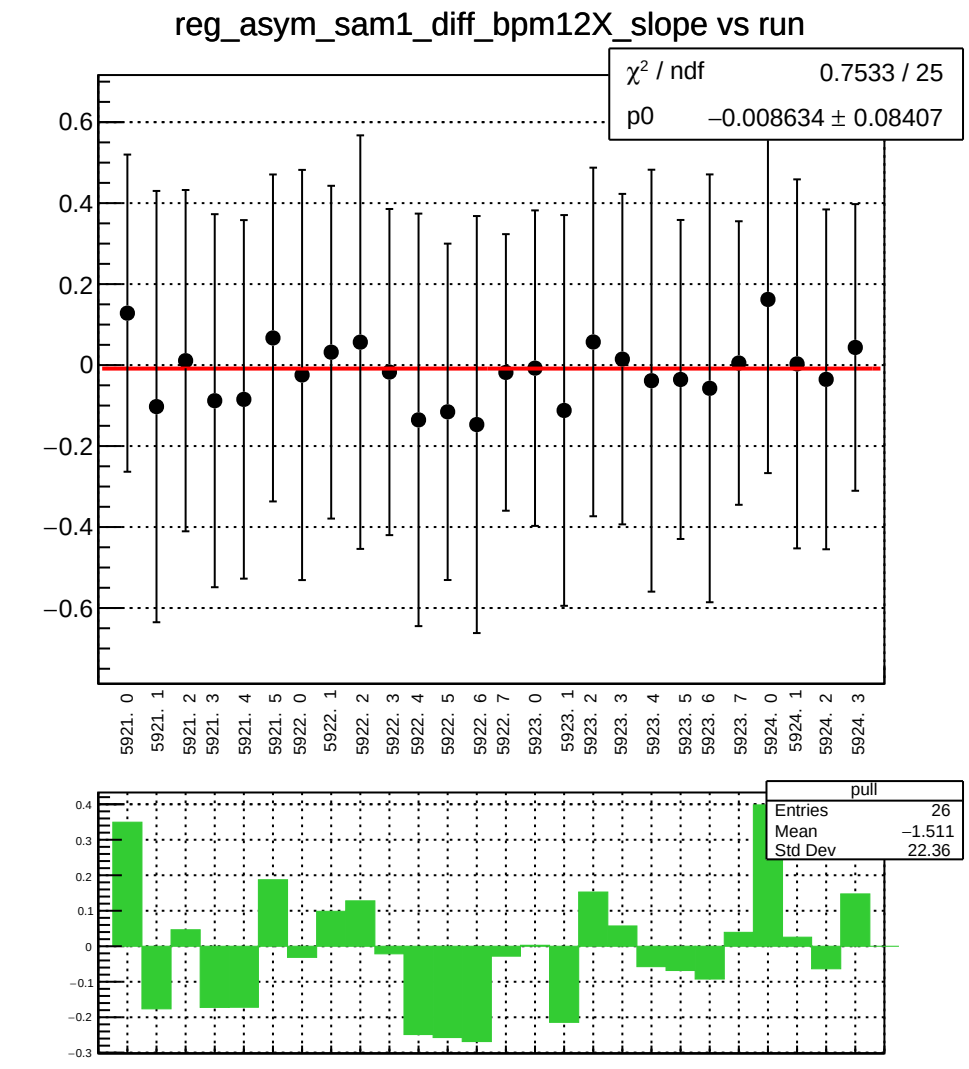

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 1.834 / 25
p0 −58.31± 1.227
−50
−55
−60
−65
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 58.8
Std Dev 49.93
0.4
0.2
0
−0.2
−0.4

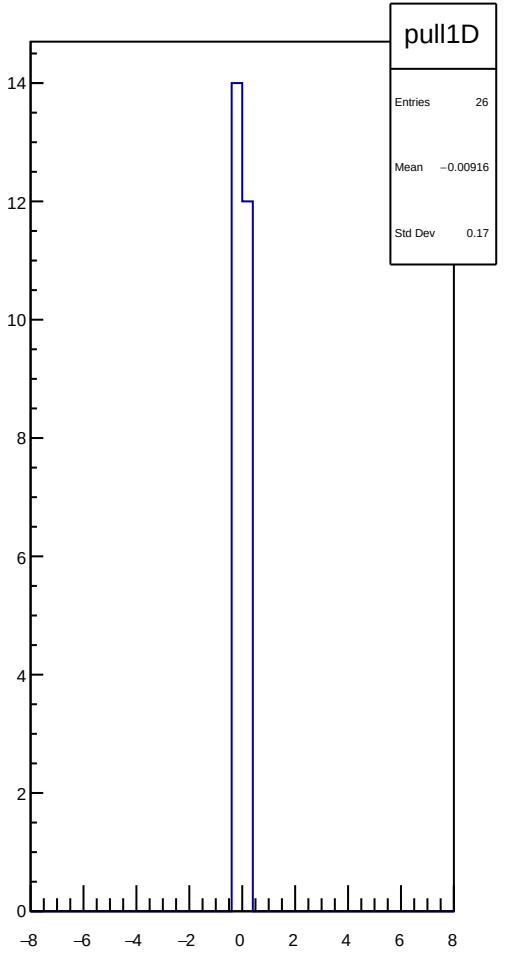

pull1D
Entries 26
Mean −0.01674
Std Dev 0.265
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

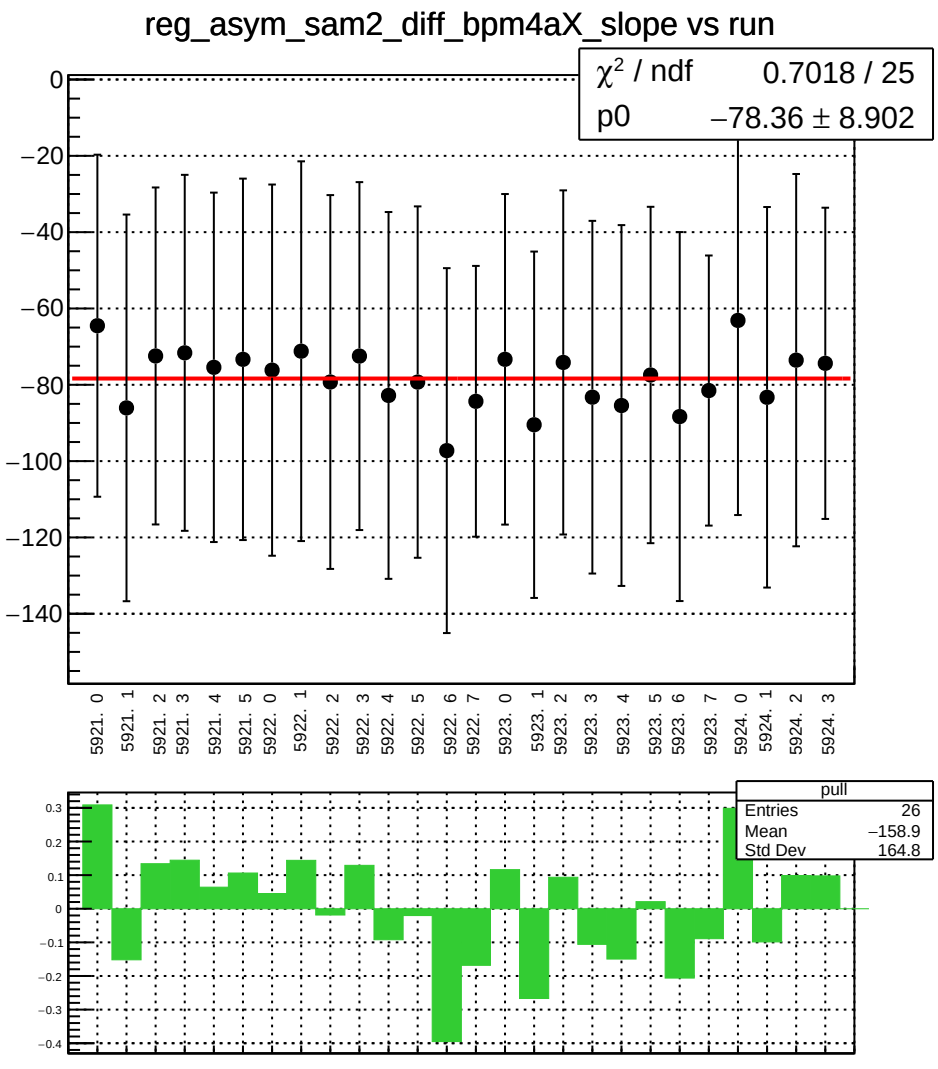

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 0.7244 / 25
p0 −1.885 ± 1.888
15
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 70
Std Dev 65.98
0.4
0.3
0.2
0.1
0
−0.1
−0.2

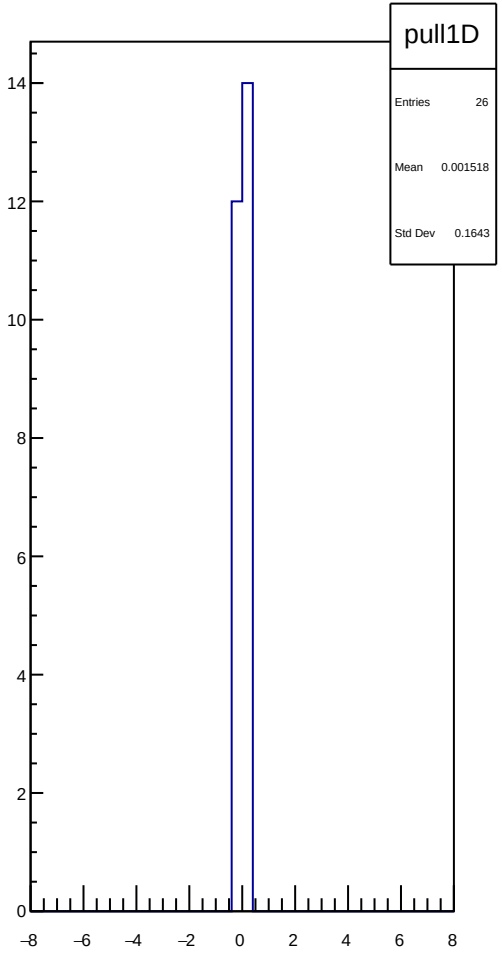

pull1D
Entries 26
Mean 0.003254
Std Dev 0.1669
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

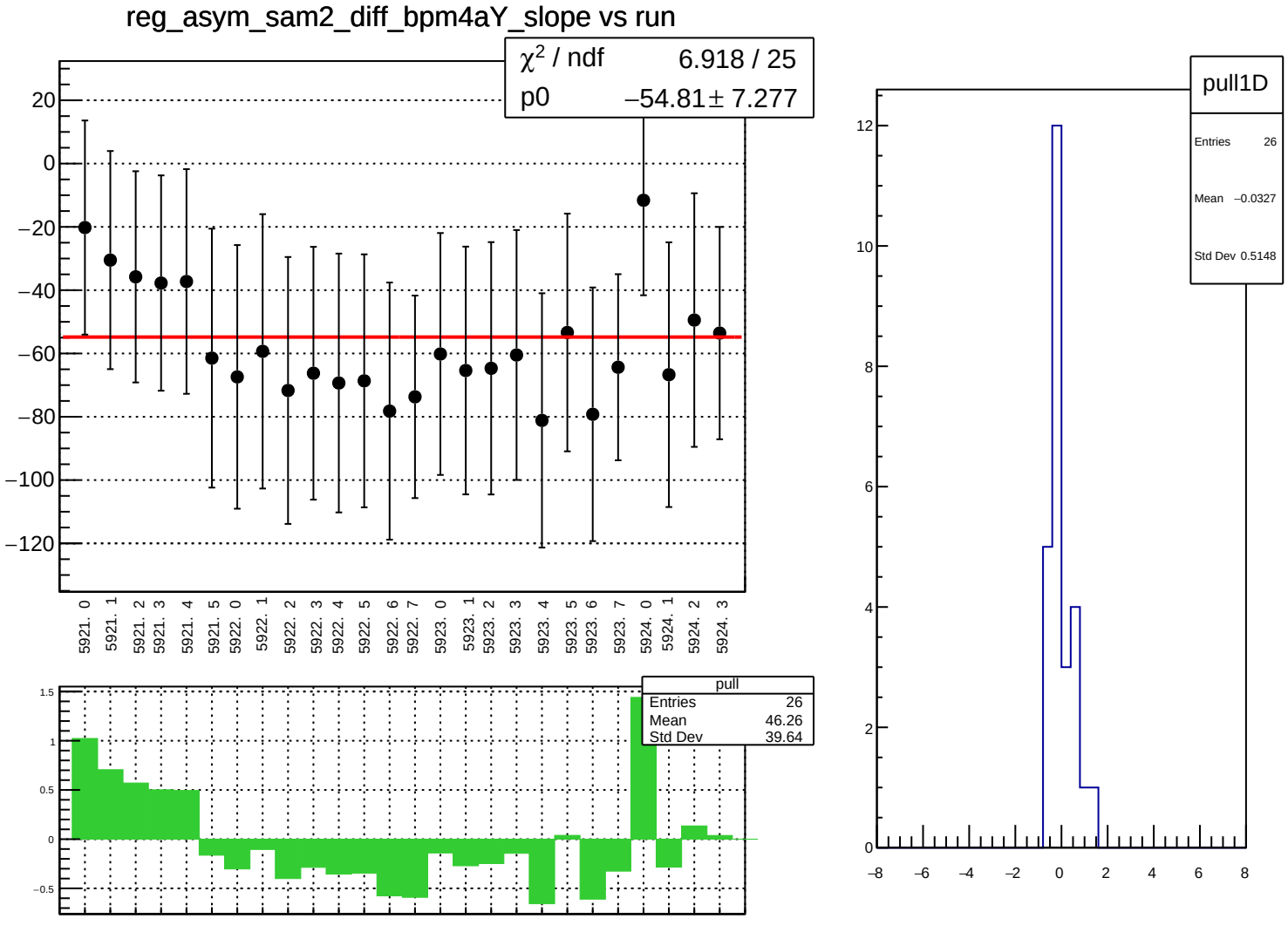

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 1.68 / 25
p0 16.62 ± 1.347
30
25
20
15
10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 46.32
Std Dev 37.7
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.01804
Std Dev 0.2536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

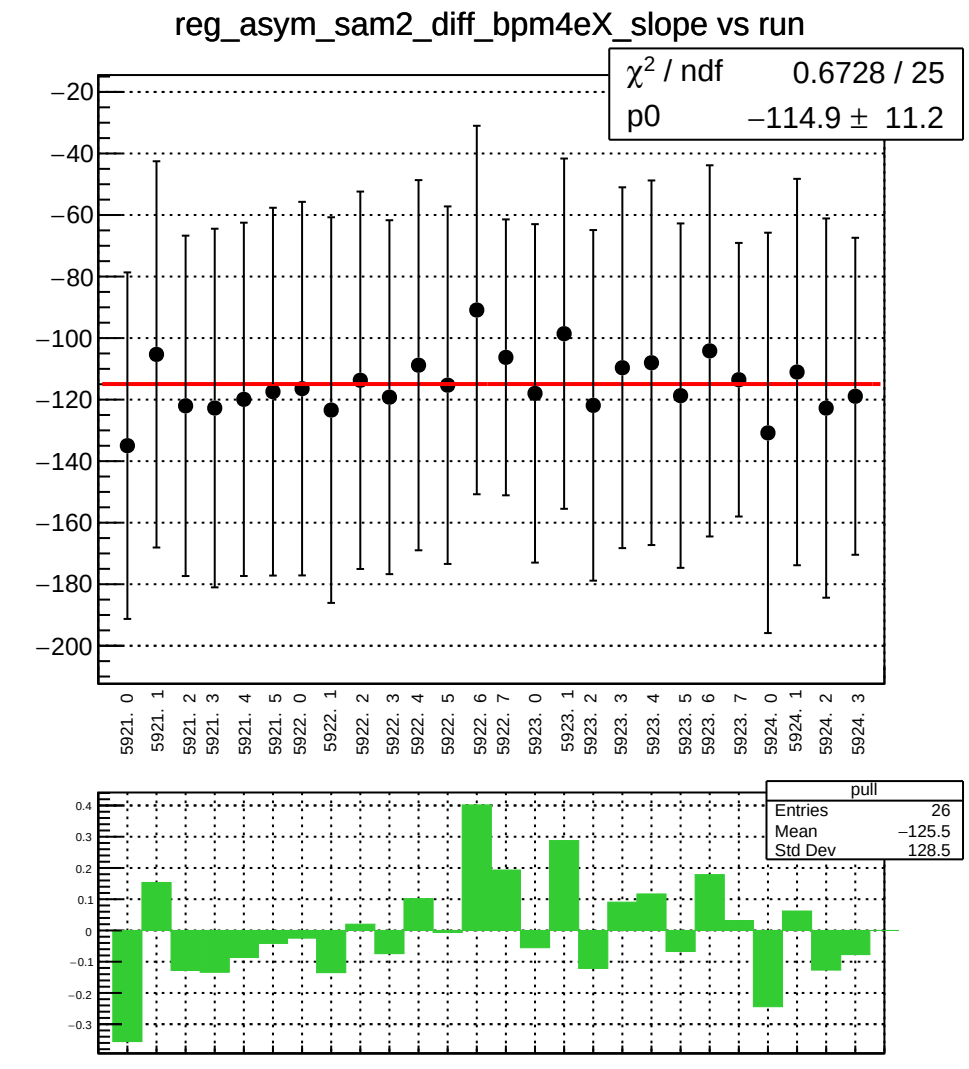

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.7533 / 25
p0 −0.008634 ± 0.08407
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1.511
Std Dev 22.36
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

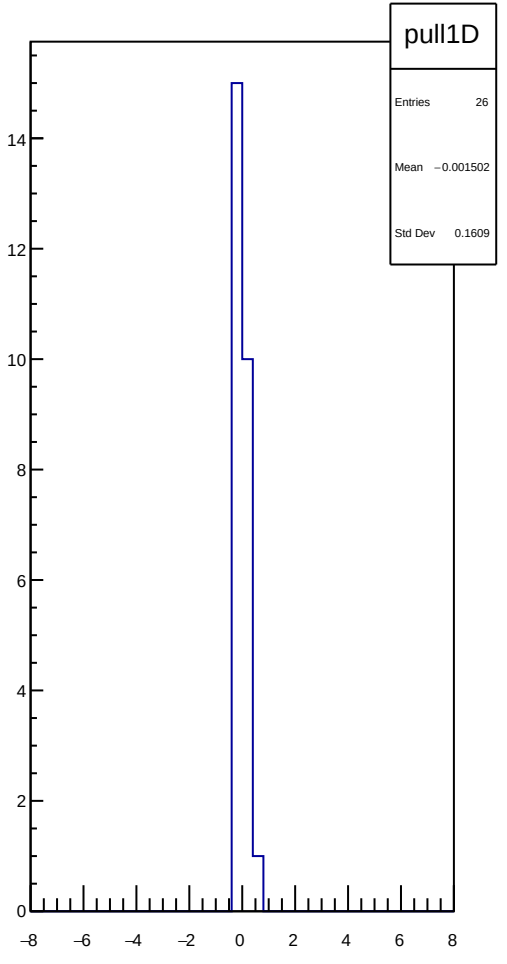

pull1D
Entries 26
Mean −0.00916
Std Dev 0.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

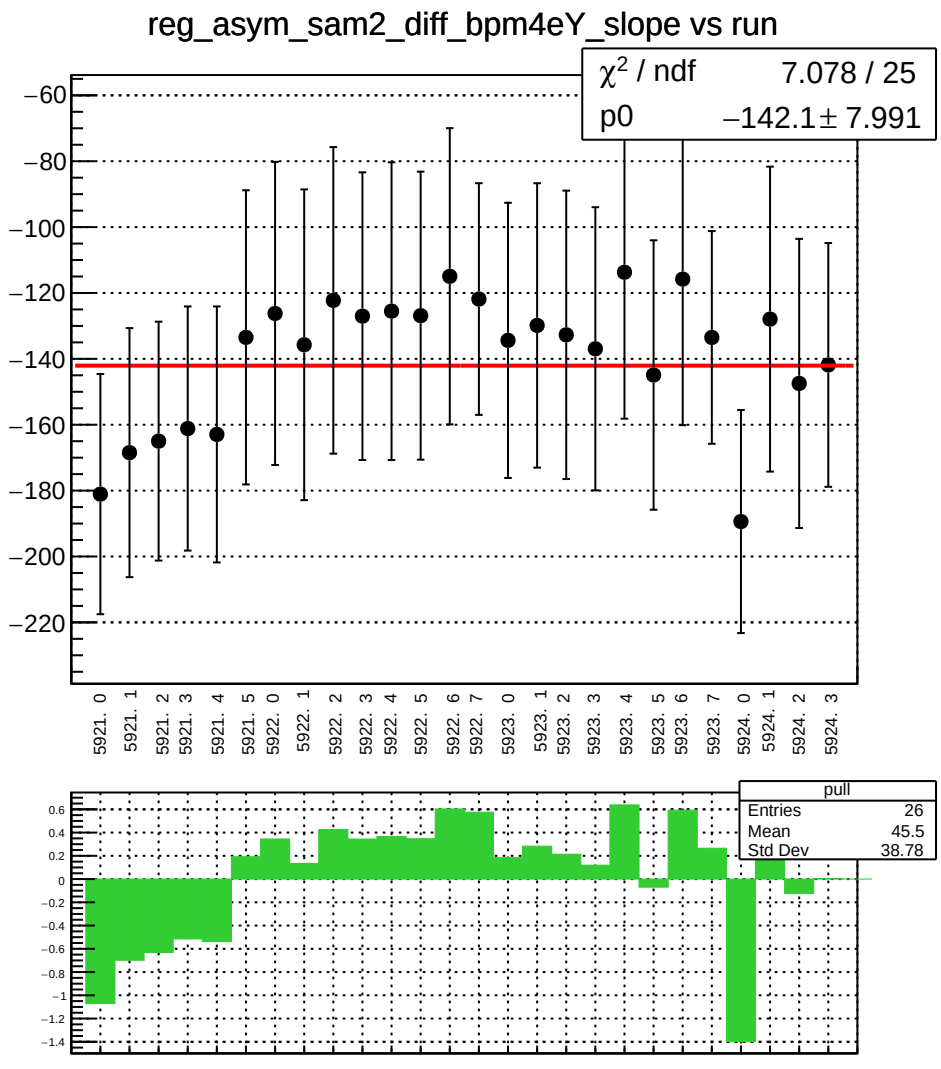

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 0.7018 / 25
p0 −78.36 ± 8.902
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −158.9
Std Dev 164.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

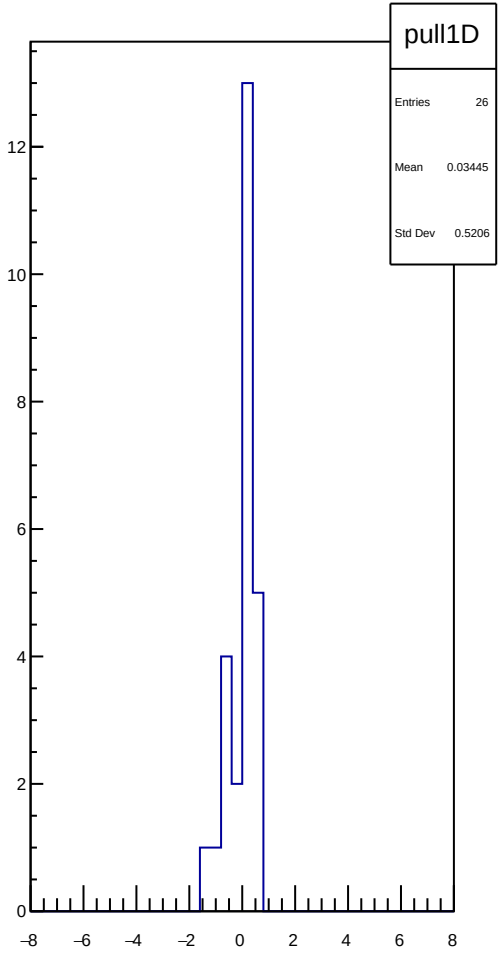

pull1D
Entries 26
Mean 0.001518
Std Dev 0.1643
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

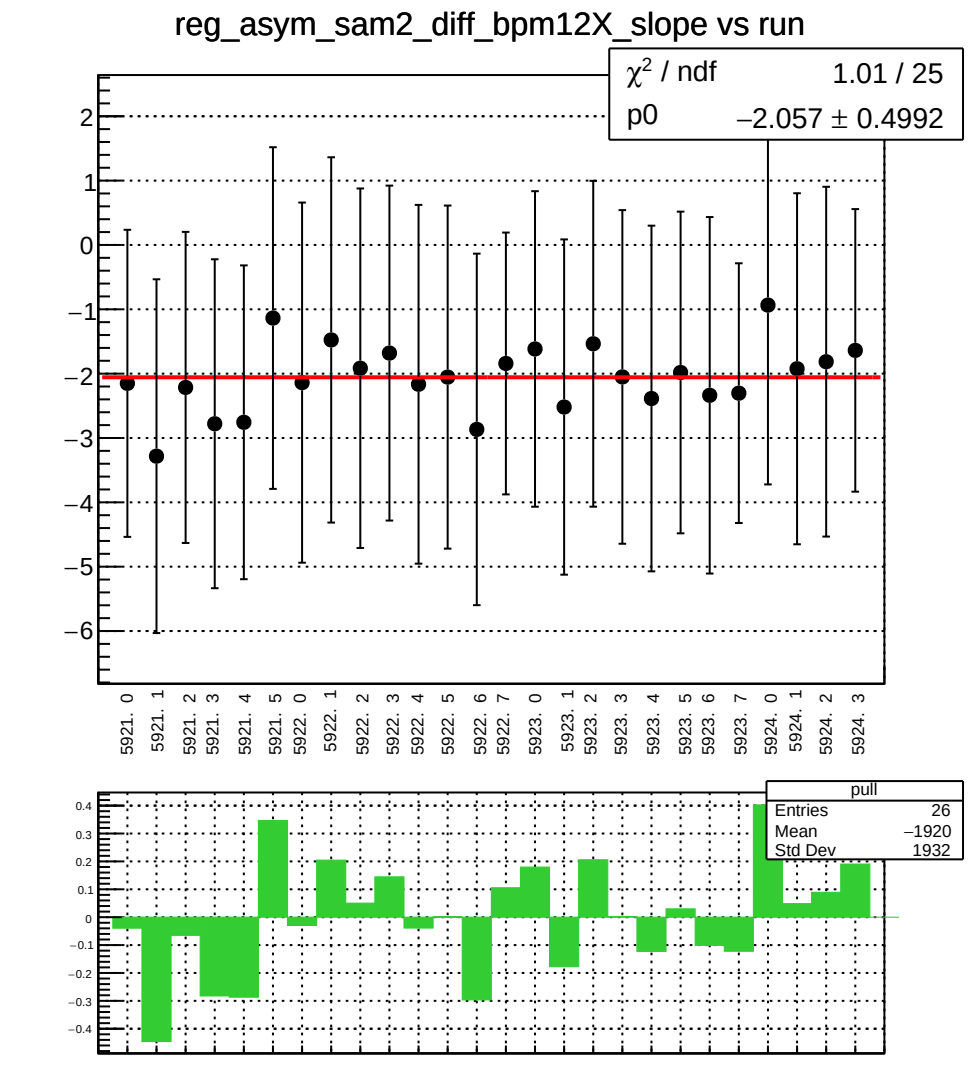

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.918 / 25
p0 −54.81 ± 7.277
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 46.26
Std Dev 39.64
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.0327
Std Dev 0.5148
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

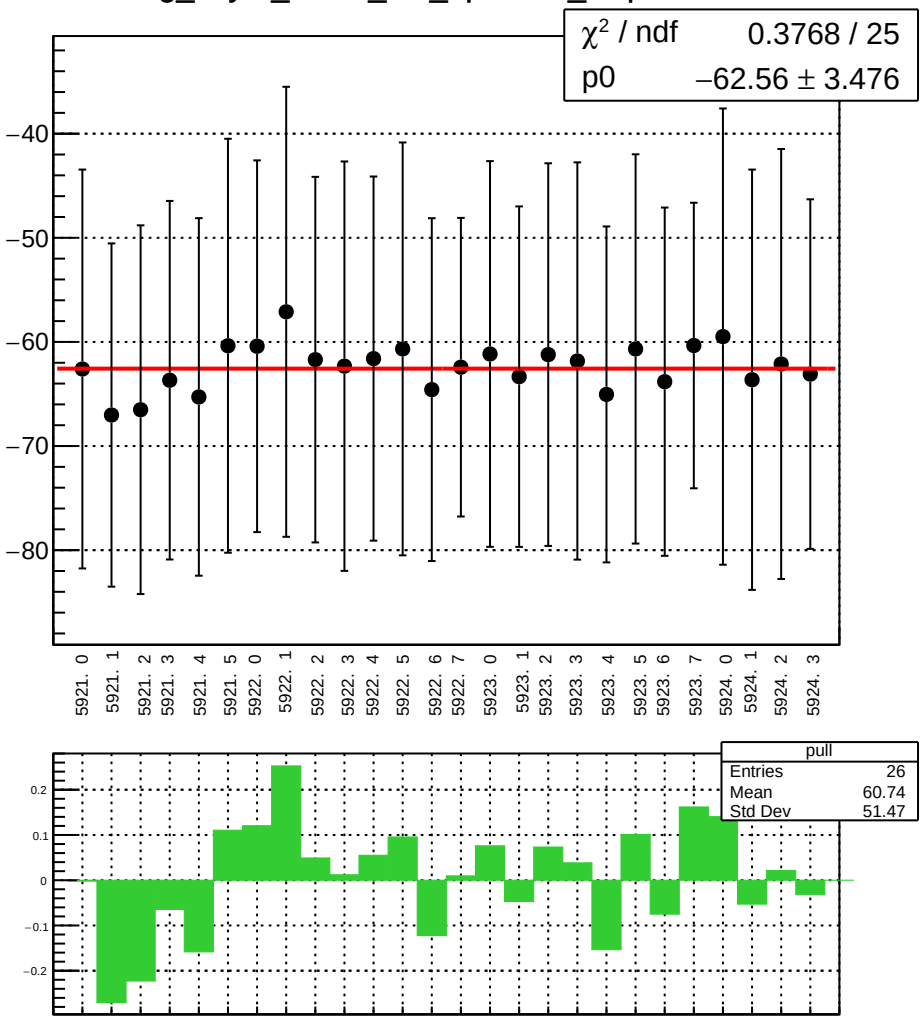

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.6728 / 25
p0 −114.9 ± 11.2
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −125.5
Std Dev 128.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

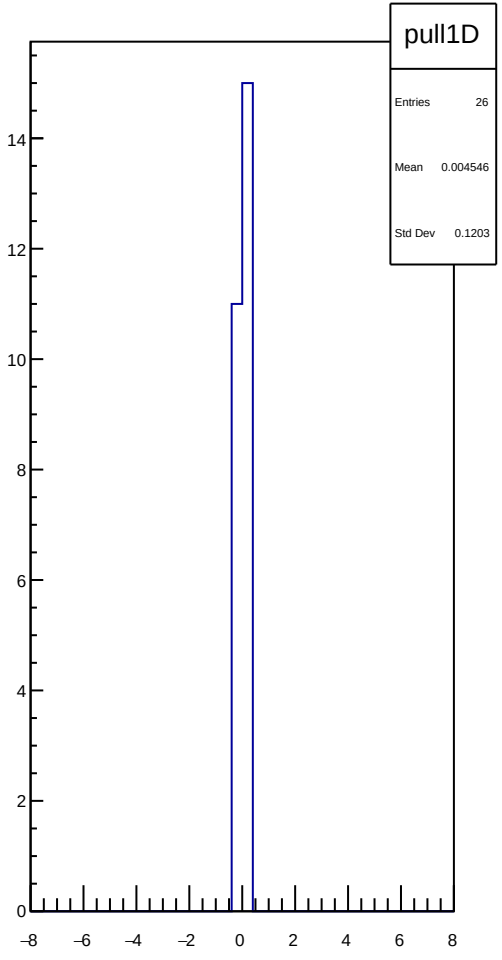

pull1D
Entries 26
Mean −0.001502
Std Dev 0.1609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

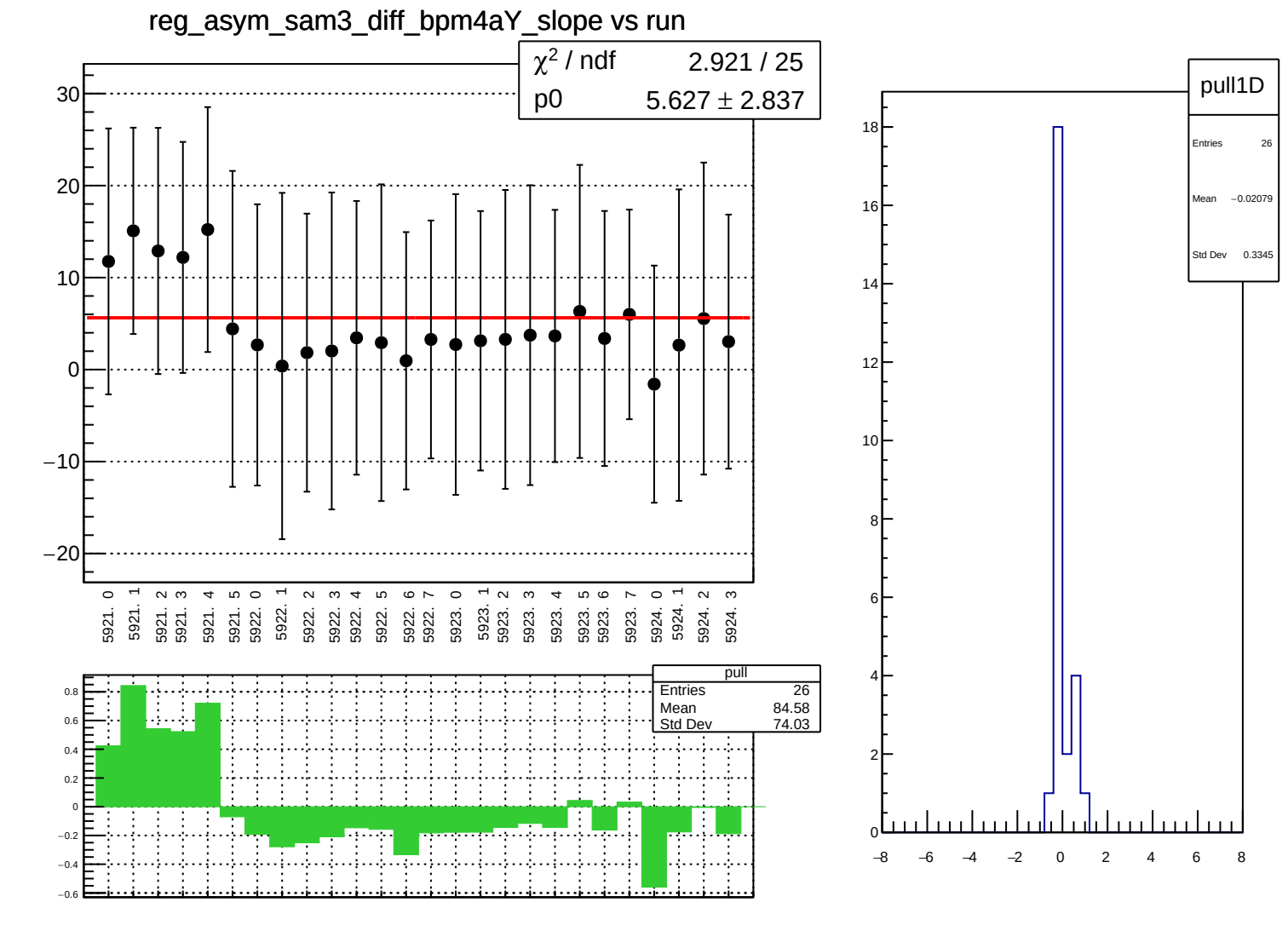

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 7.078 / 25
p0 −142.1 ± 7.991
−60
−80
−100
−120
−140
−160
−180
−200
−220
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 45.5
Std Dev 38.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

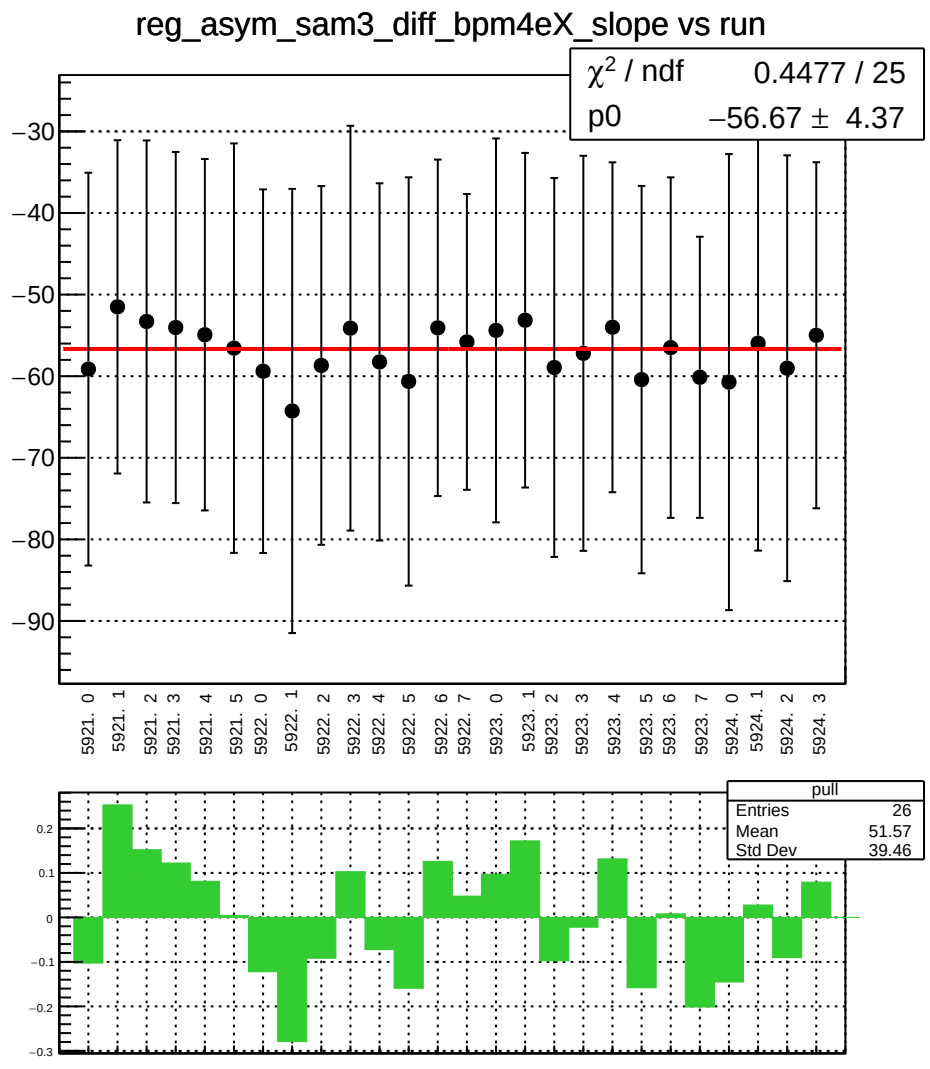

pull1D
Entries 26
Mean 0.03445
Std Dev 0.5206
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

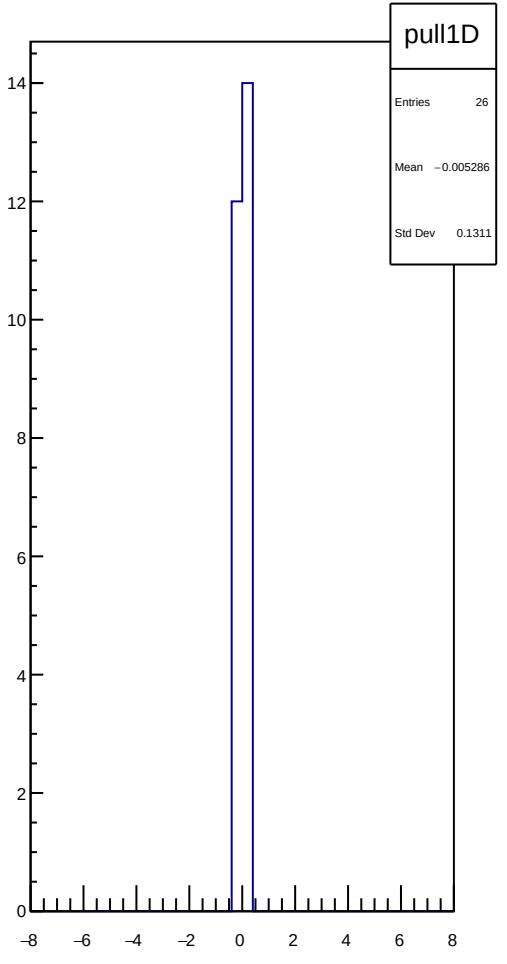

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.01 / 25
p0 −2.057 ± 0.4992
pull
Entries 26
Mean −1920
Std Dev 1932
pull1D
Entries 26
Mean −0.0002681
Std Dev 0.1971

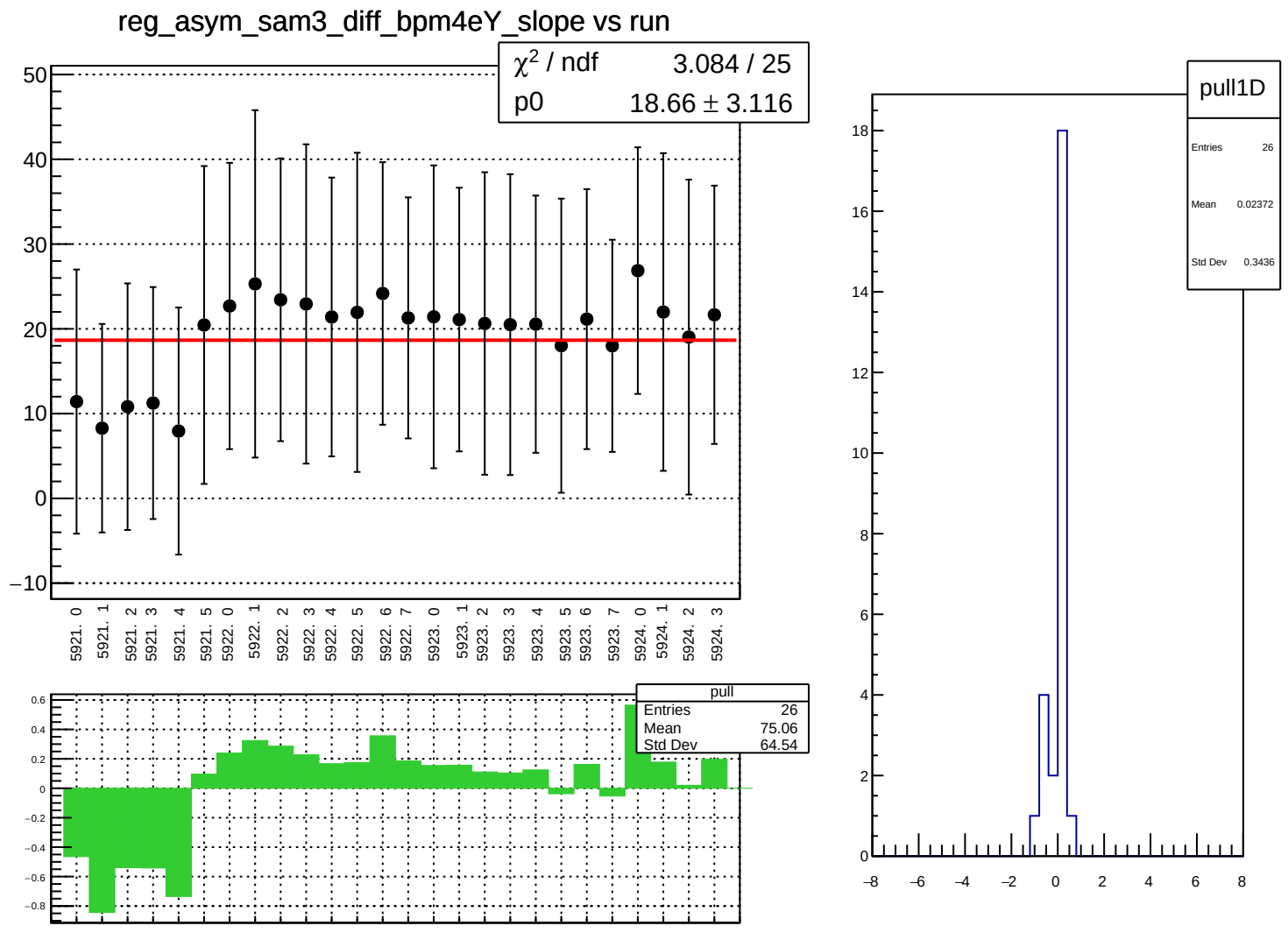

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.3768 / 25
p0 −62.56 ± 3.476
−40
−50
−60
−70
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 60.74
Std Dev 51.47
0.2
0.1
0
−0.1
−0.2

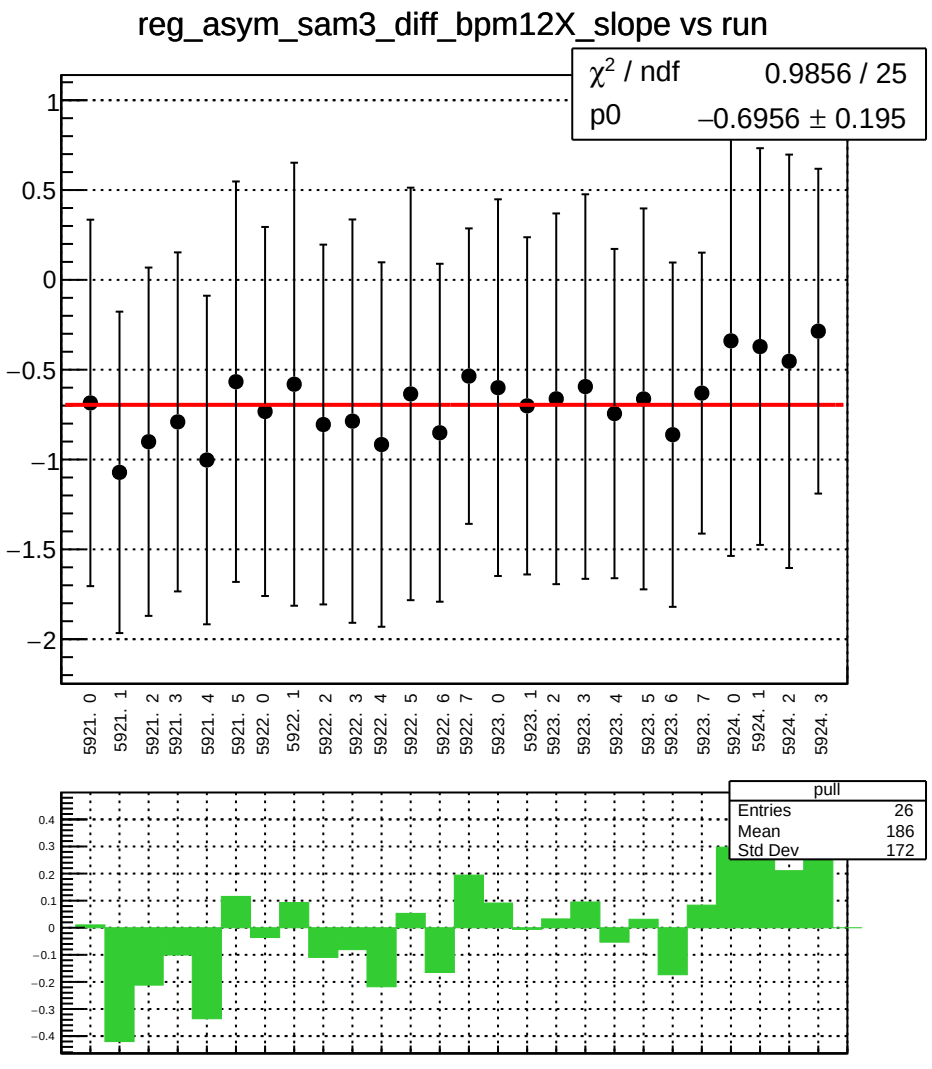

pull1D
Entries 26
Mean 0.004546
Std Dev 0.1203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

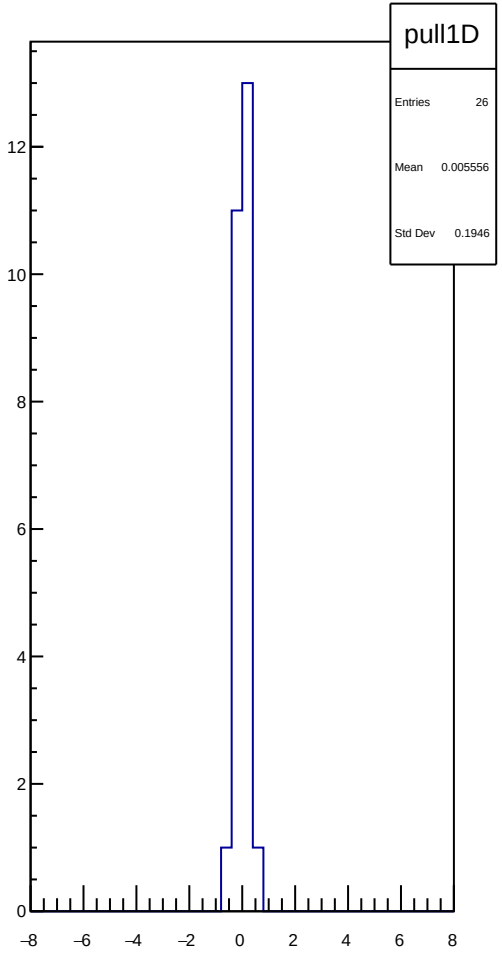

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.921 / 25
p0 5.627 ± 2.837
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.58
Std Dev 74.03
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.02079
Std Dev 0.3345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

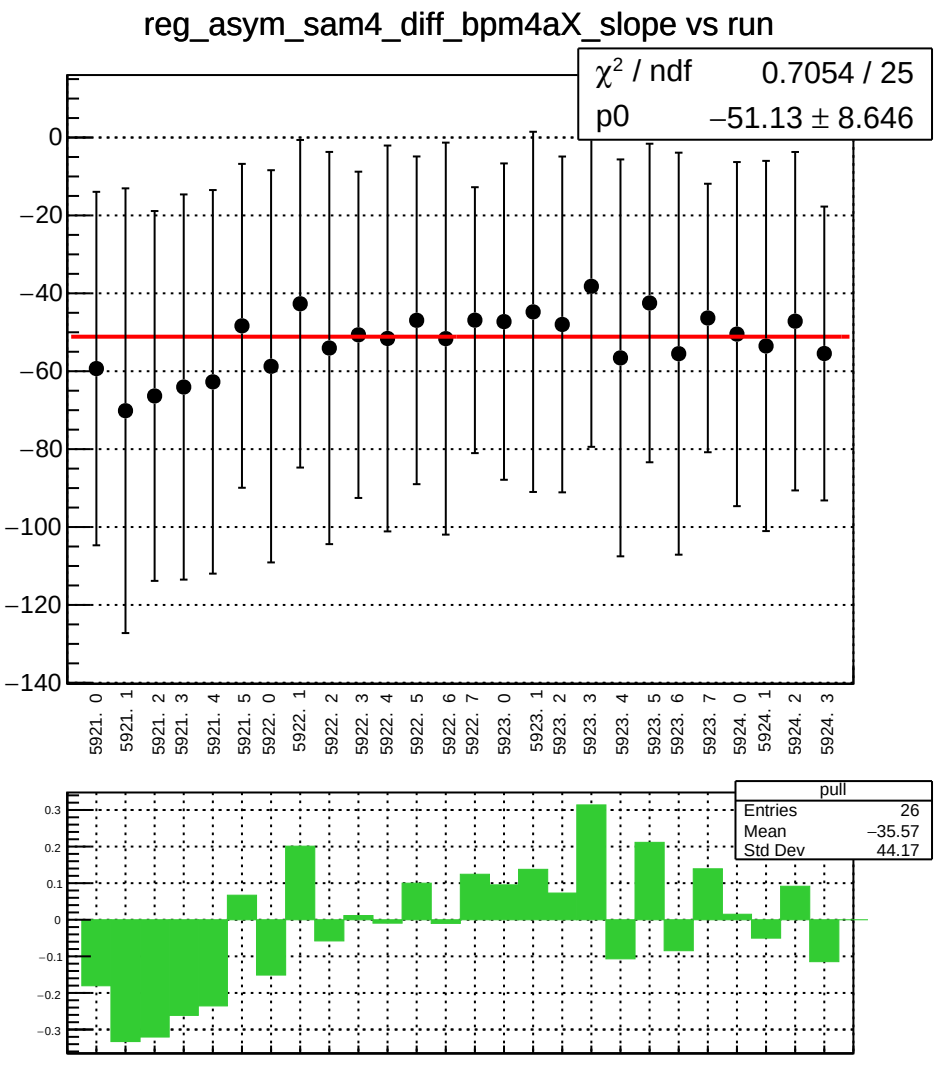

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.4477 / 25
p0 −56.67 ± 4.37
−30
−40
−50
−60
−70
−80
−90
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 51.57
Std Dev 39.46
0.2
0.1
0
−0.1
−0.2
−0.3

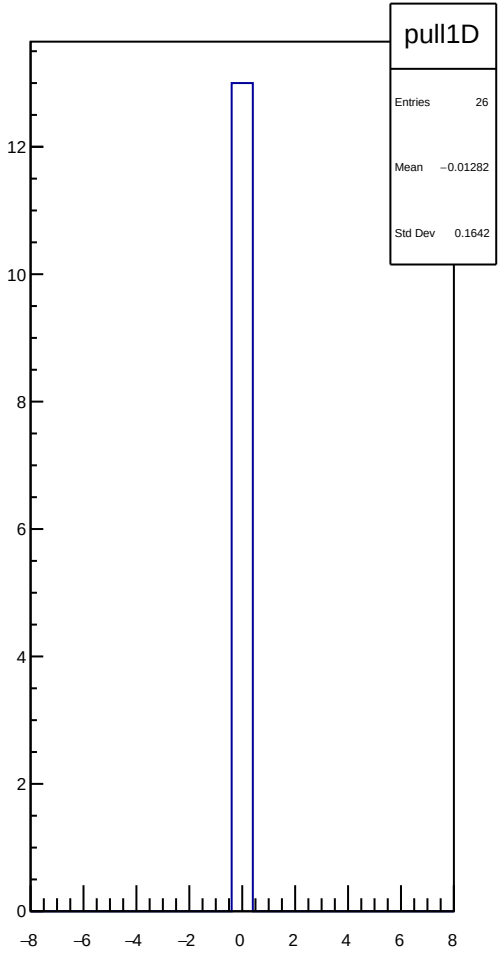

pull1D
Entries 26
Mean −0.005286
Std Dev 0.1311
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

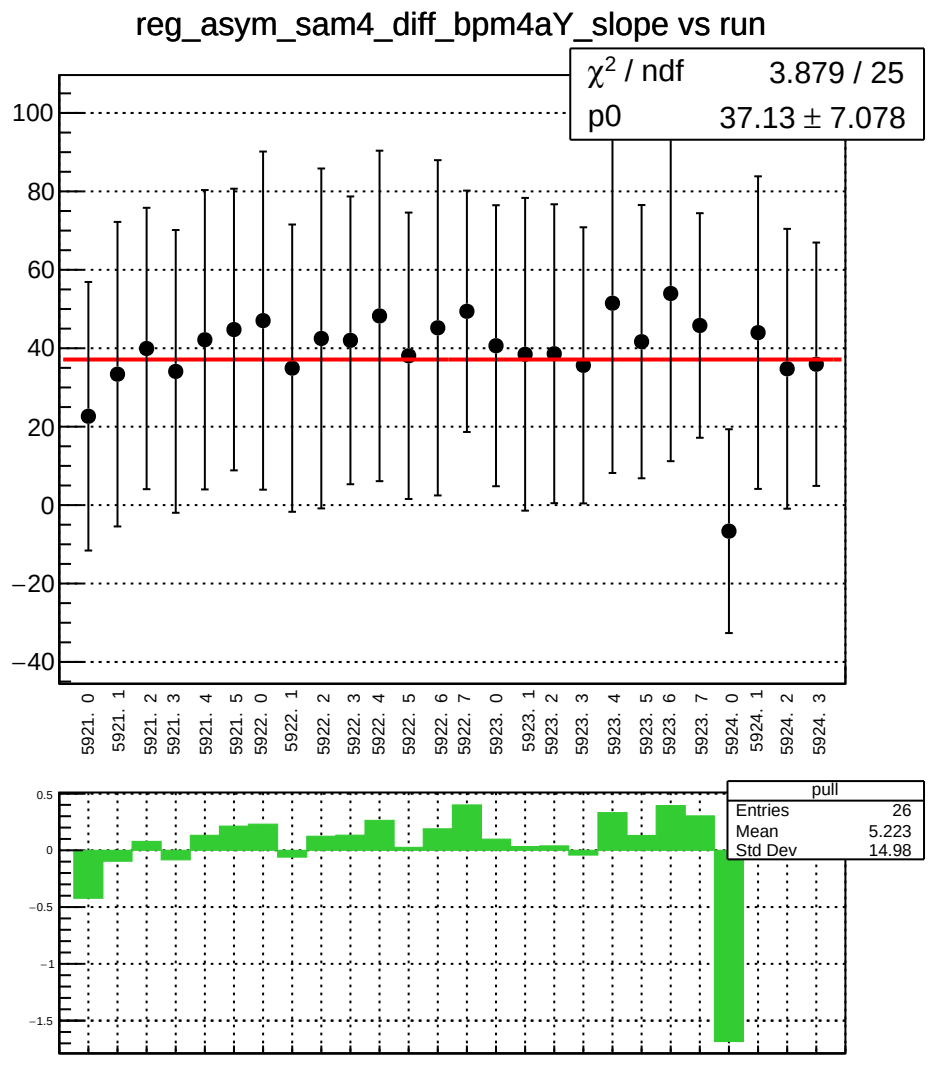

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.084 / 25
p0 18.66 ± 3.116
50
40
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 75.06
Std Dev 64.54
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.02372
Std Dev 0.3436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

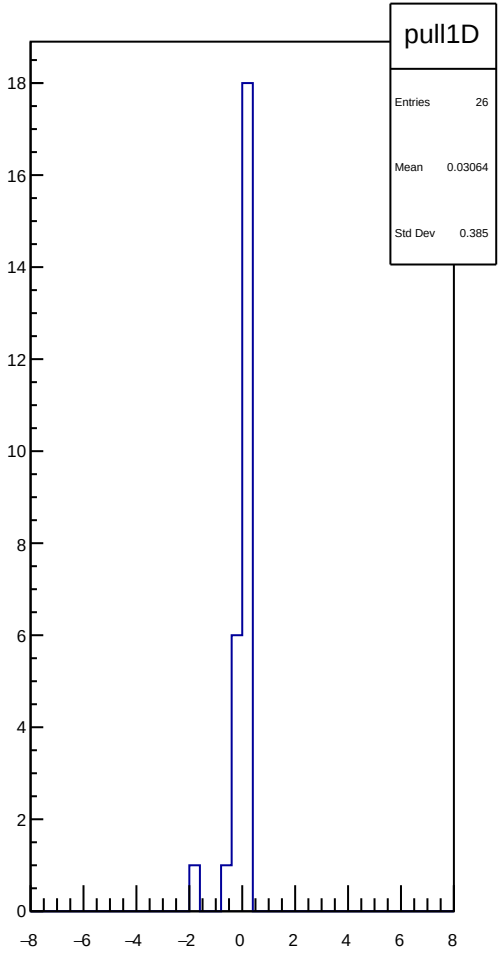

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.9856 / 25
p0 −0.6956 ± 0.195
pull
Entries 26
Mean 186
Std Dev 172

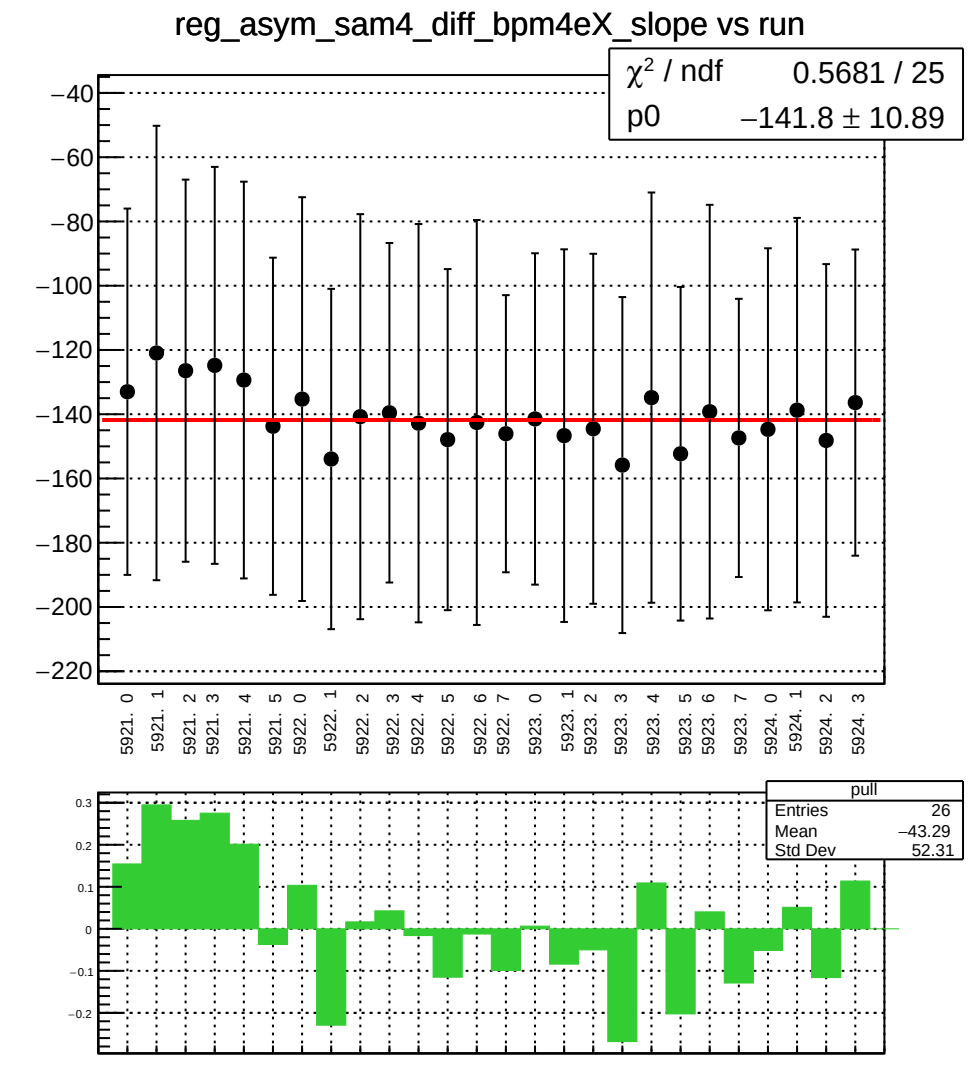

pull1D
Entries 26
Mean 0.005556
Std Dev 0.1946

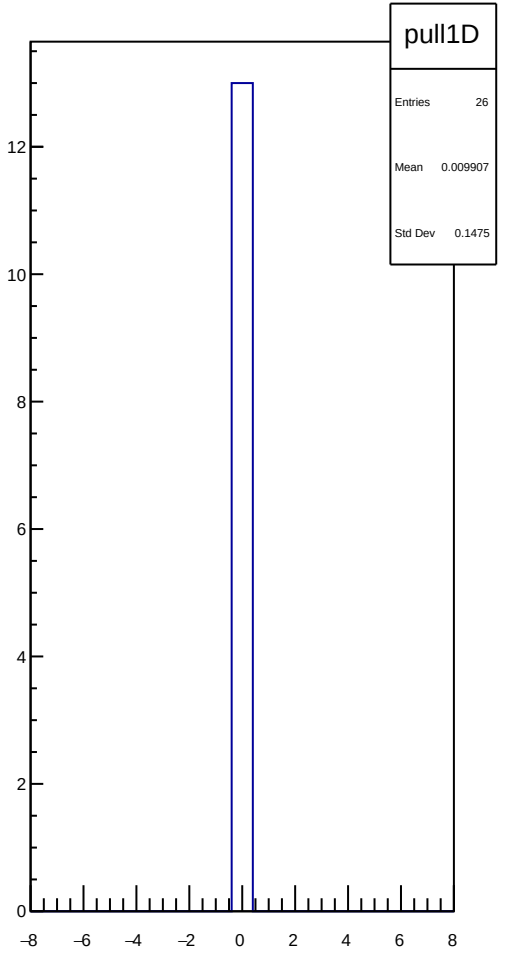

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.7054 / 25
p0 −51.13 ± 8.646
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −35.57
Std Dev 44.17
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

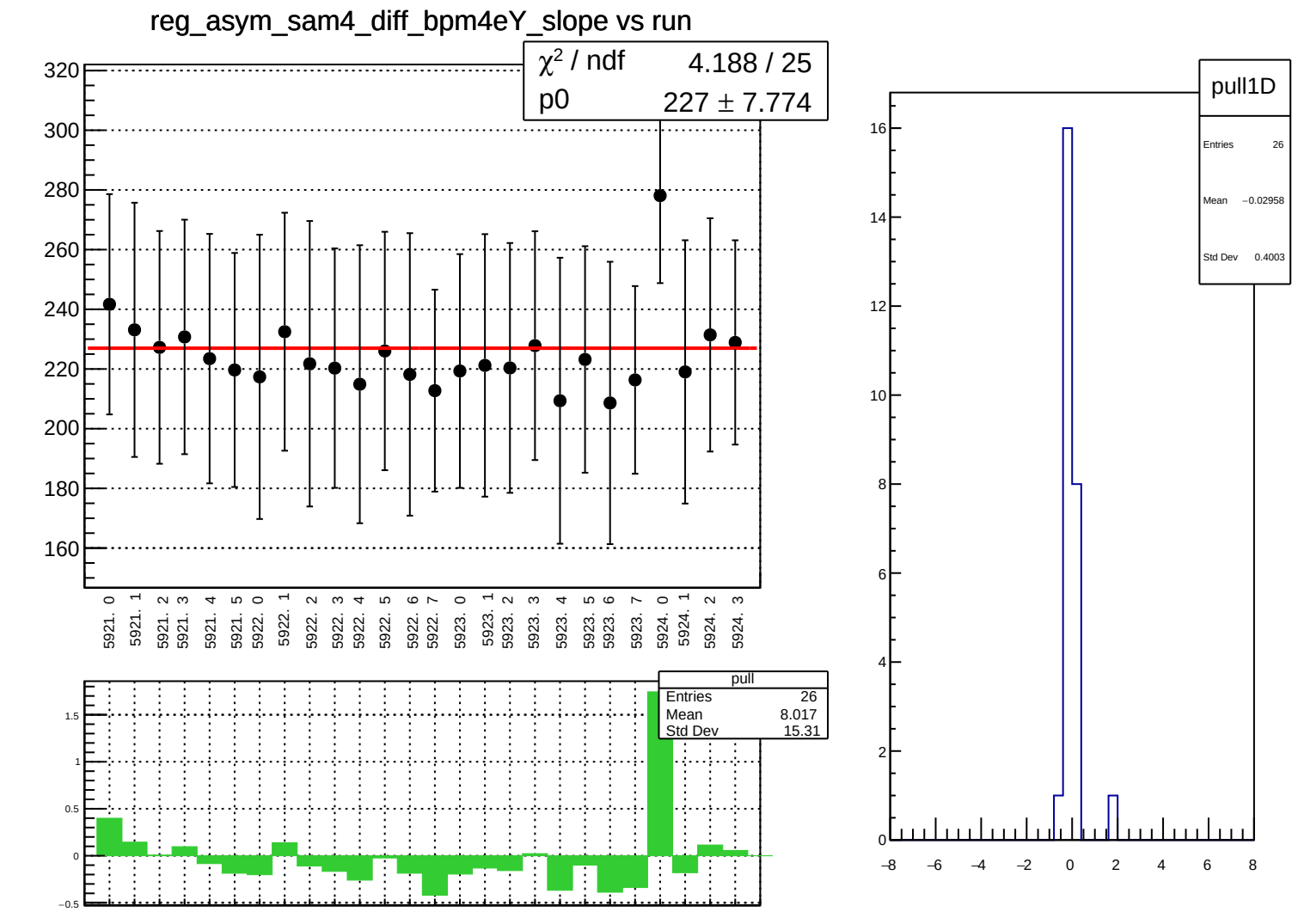

pull1D
Entries 26
Mean −0.01282
Std Dev 0.1642
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

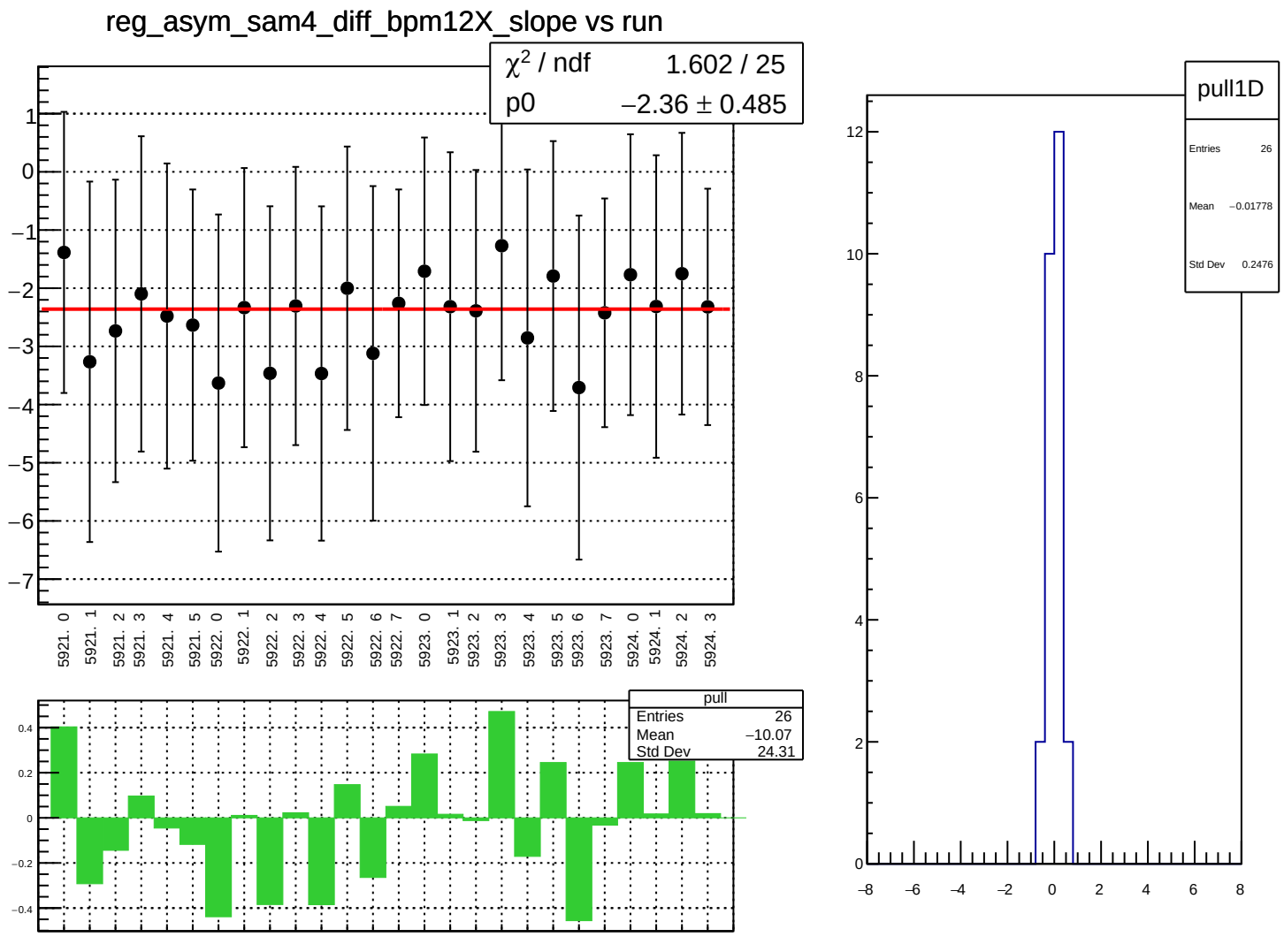

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.879 / 25
p0 37.13 ± 7.078
100
80
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5.223
Std Dev 14.98
0.5
0
−0.5
−1
−1.5

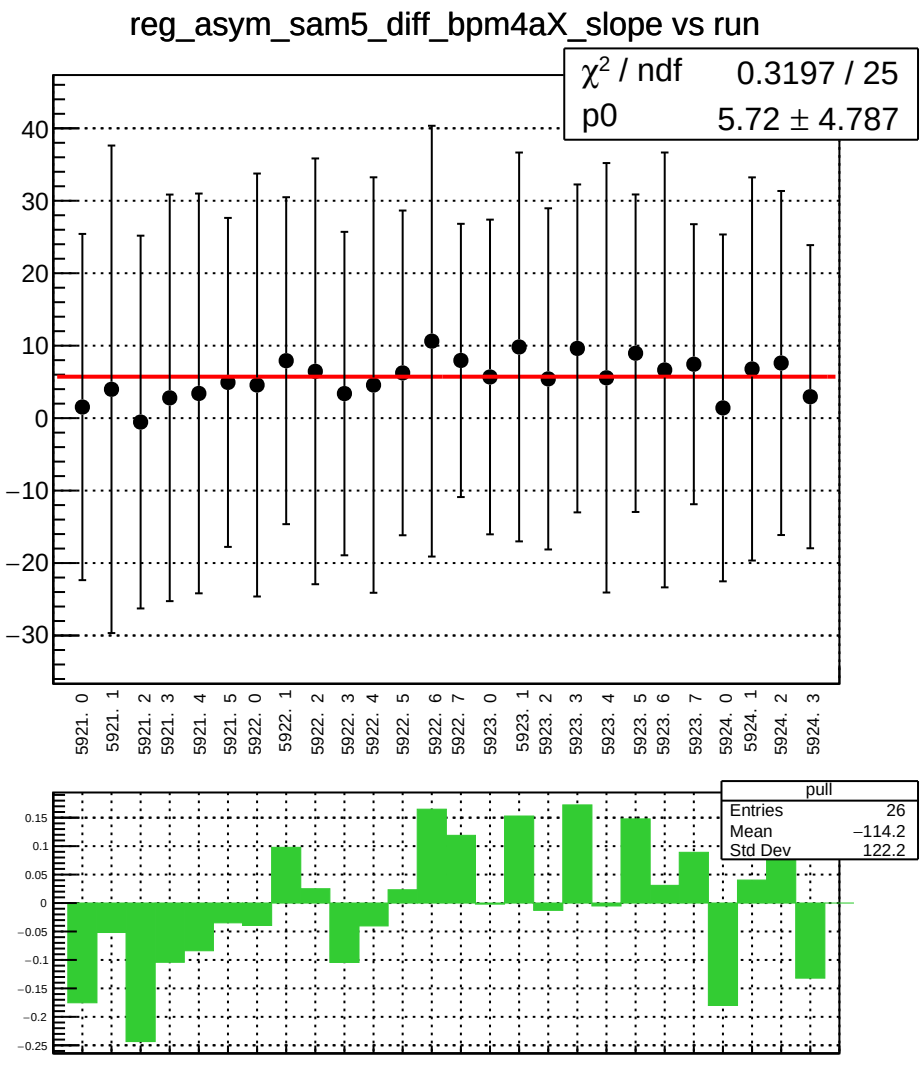

pull1D
Entries 26
Mean 0.03064
Std Dev 0.385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

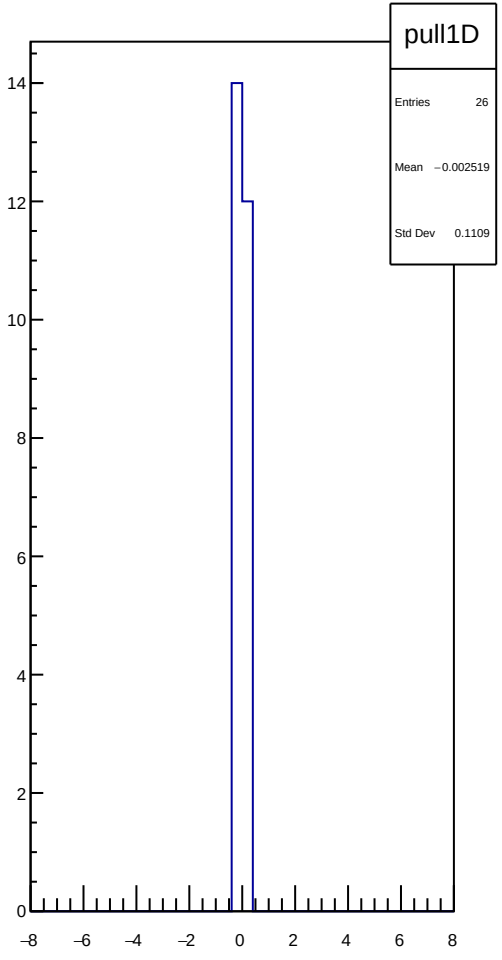

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.5681 / 25
p0 −141.8 ± 10.89
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −43.29
Std Dev 52.31
0.3
0.2
0.1
0
−0.1
−0.2

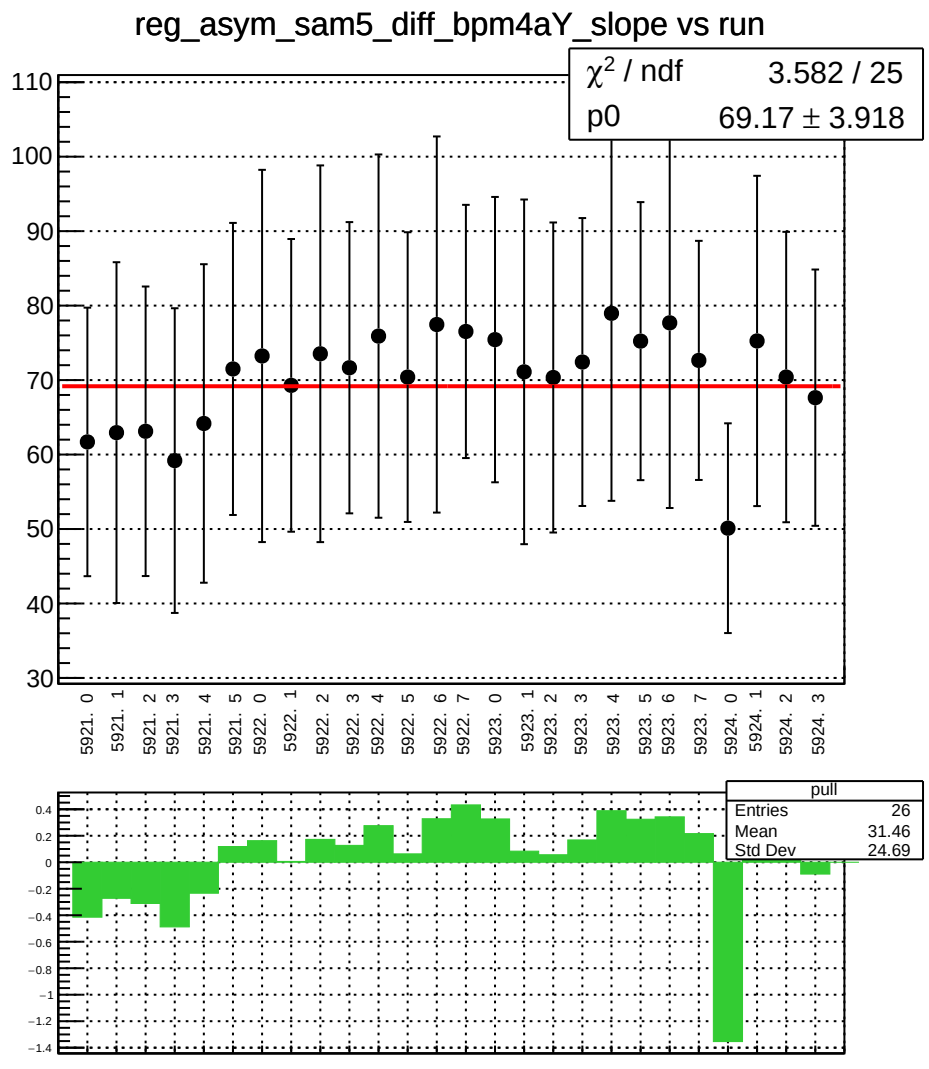

pull1D
Entries 26
Mean 0.009907
Std Dev 0.1475
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

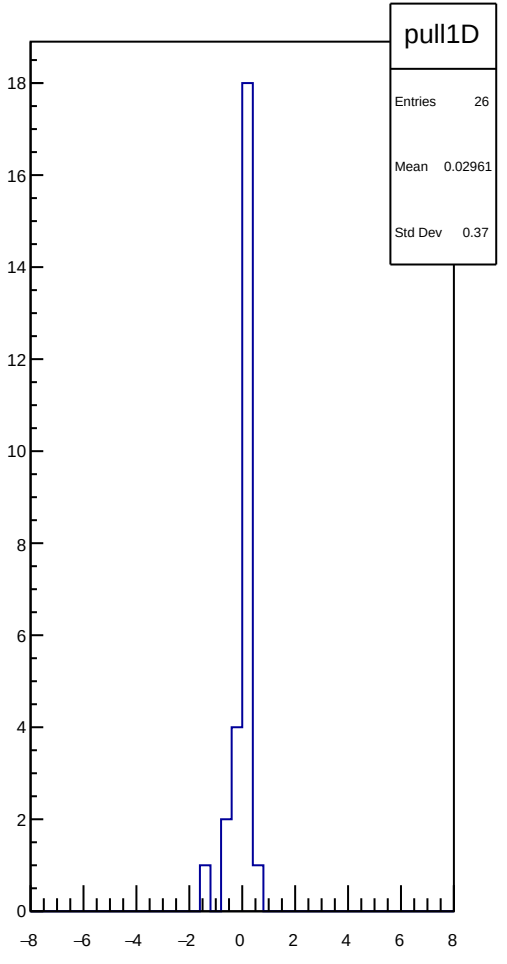

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 4.188 / 25
p0 227 ± 7.774
320
300
280
260
240
220
200
180
160
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.017
Std Dev 15.31
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.02958
Std Dev 0.4003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

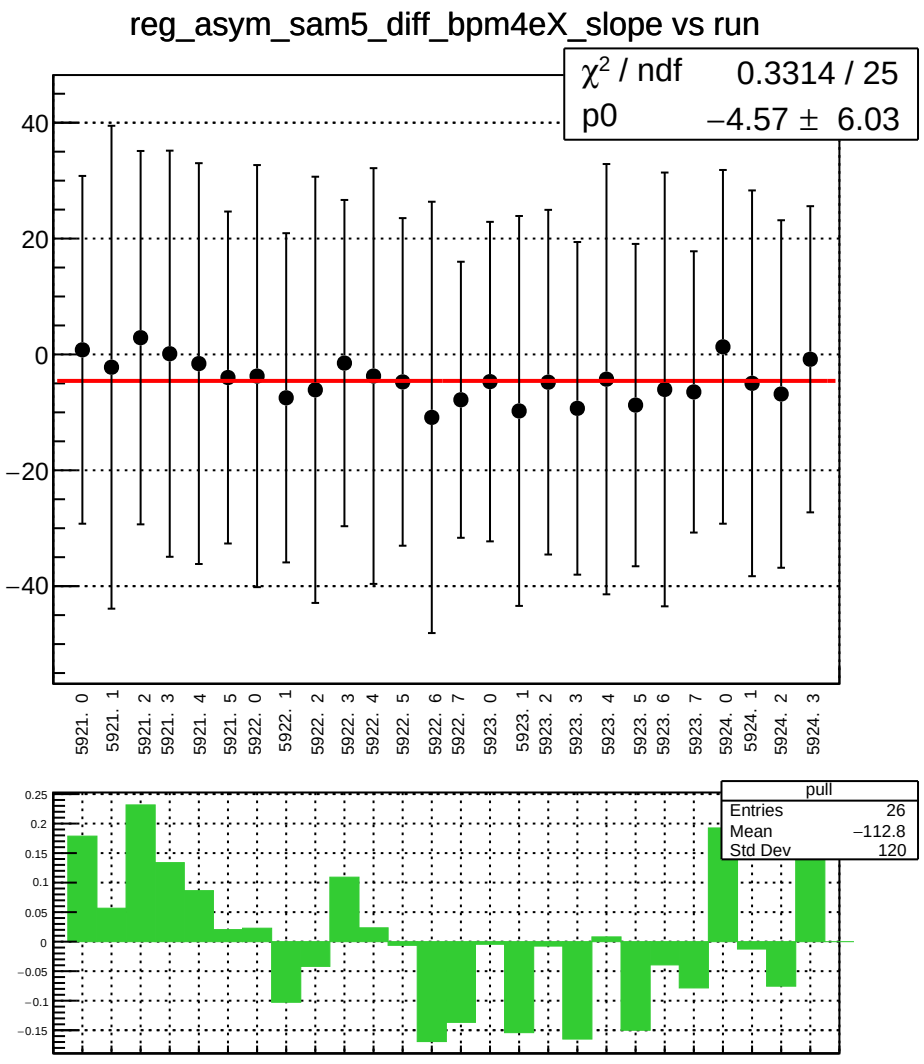

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.602 / 25
p0 −2.36 ± 0.485
pull
Entries 26
Mean −10.07
Std Dev 24.31
pull1D
Entries 26
Mean −0.01778
Std Dev 0.2476

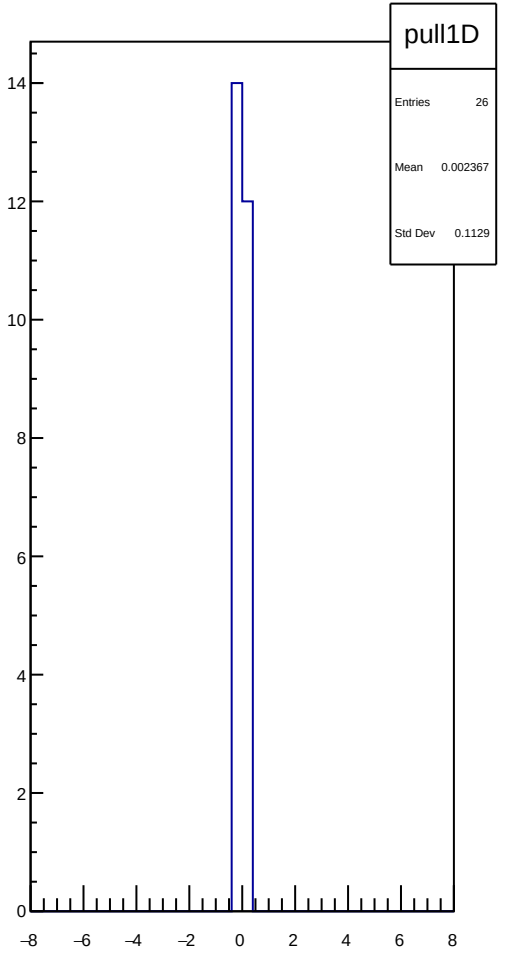

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.3197 / 25
p0 5.72 ± 4.787
40
30
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −114.2
Std Dev 122.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

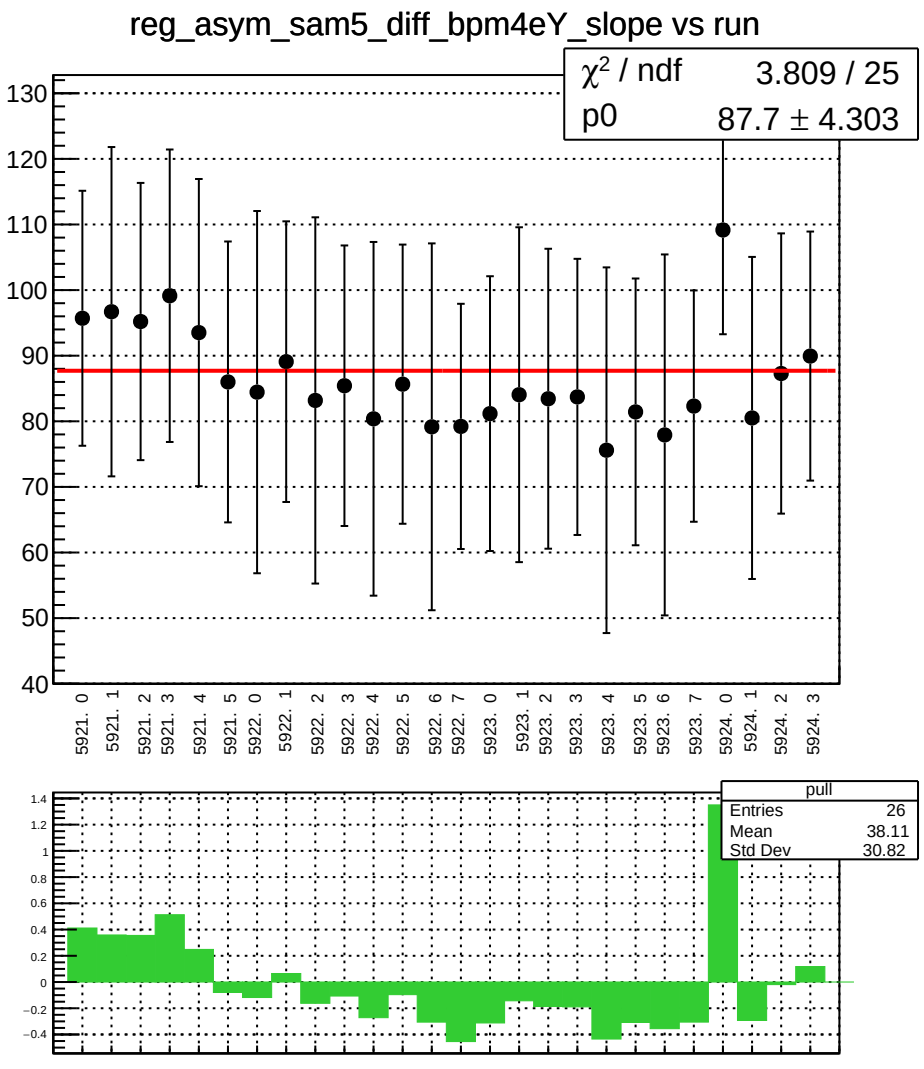

pull1D
Entries 26
Mean −0.002519
Std Dev 0.1109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

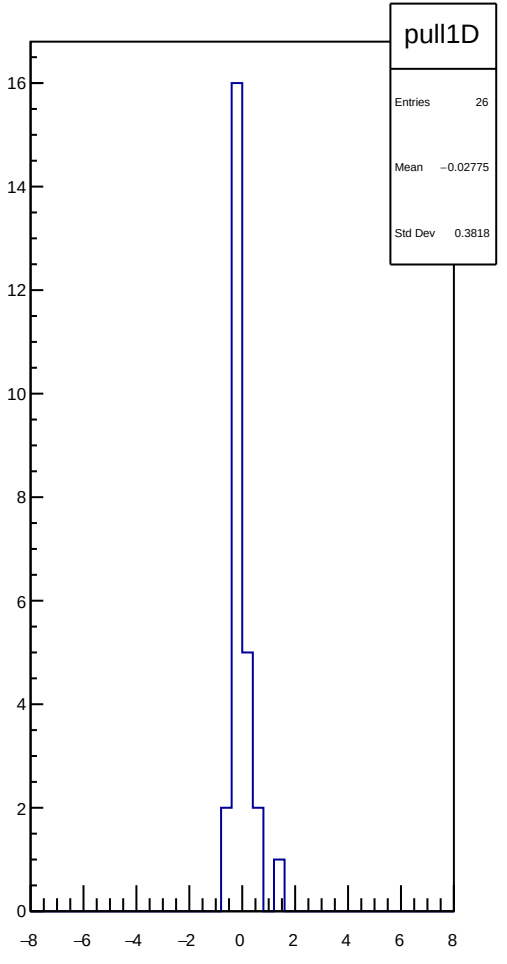

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.582 / 25
p0 69.17 ± 3.918
110
100
90
80
70
60
50
40
30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 31.46
Std Dev 24.69
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

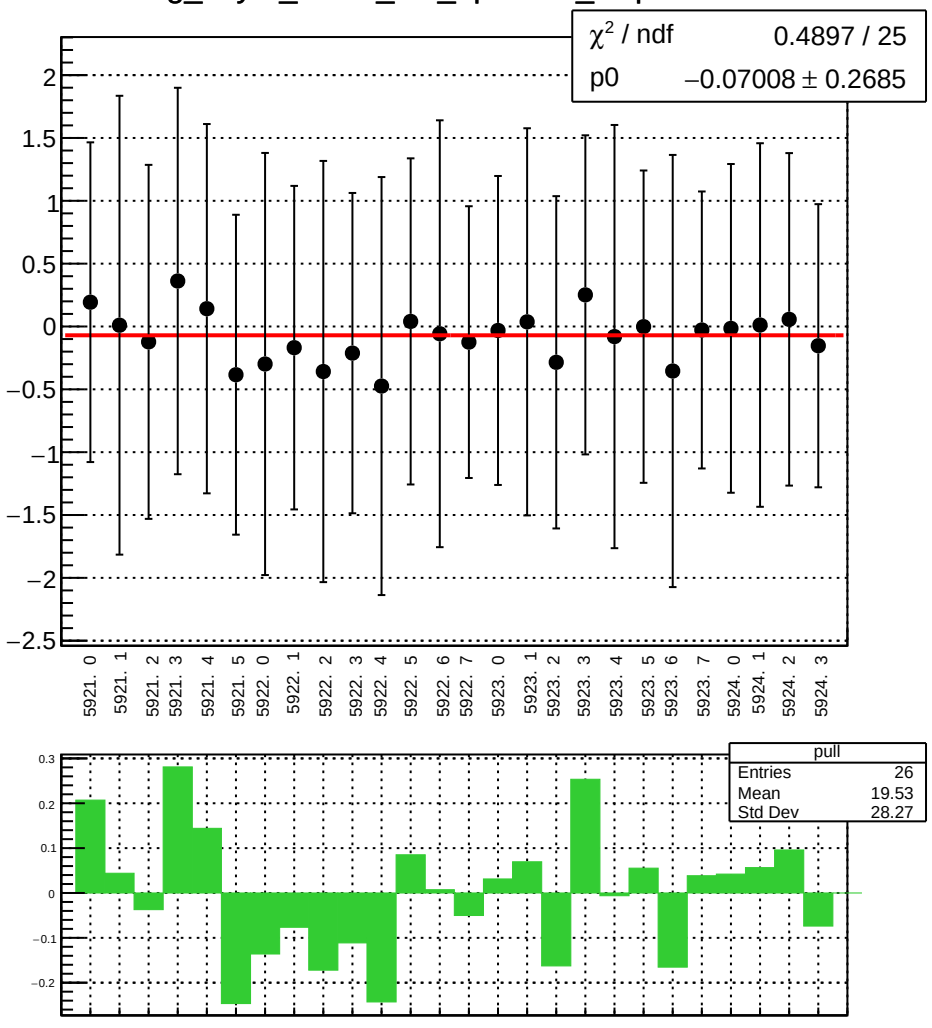

pull1D
Entries 26
Mean 0.02961
Std Dev 0.37
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

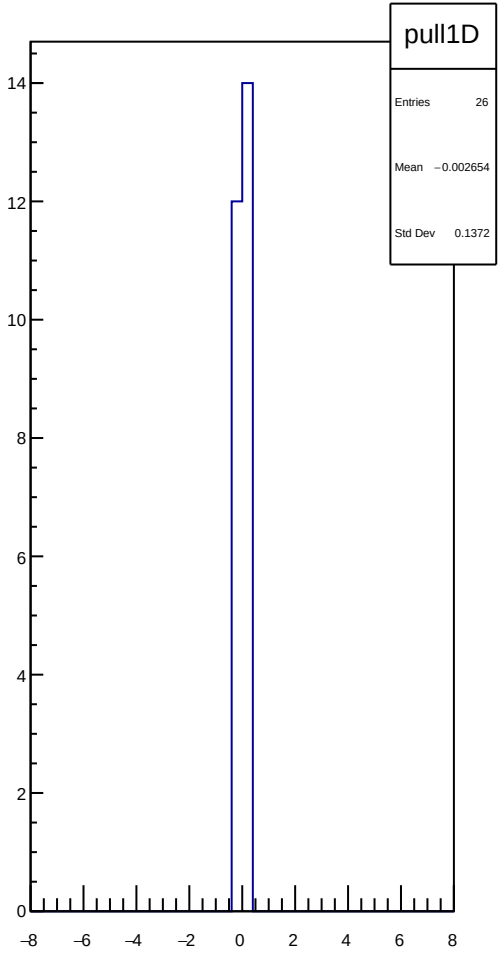

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.3314 / 25
p0 −4.57 ± 6.03
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −112.8
Std Dev 120
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

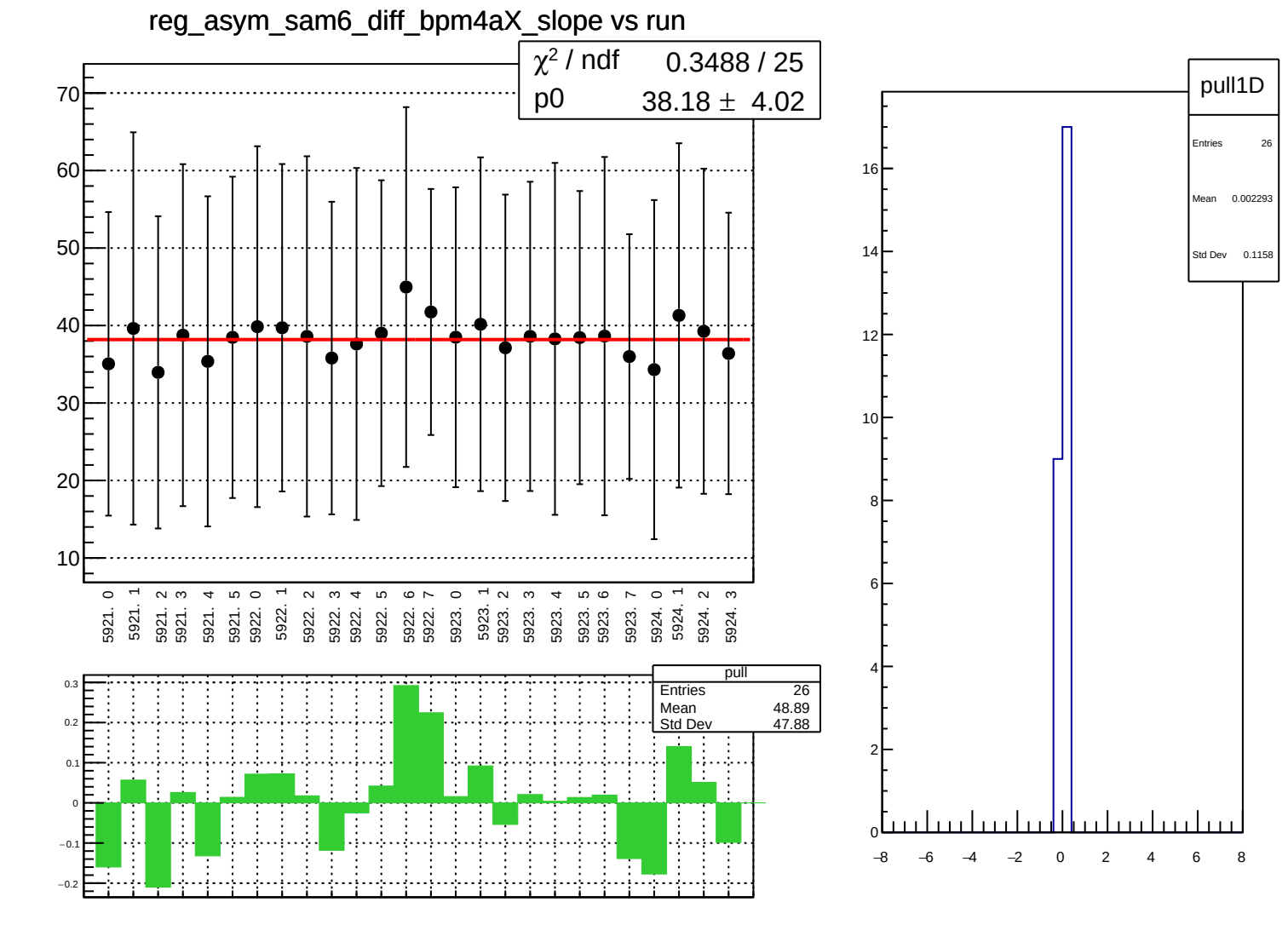

pull1D
Entries 26
Mean 0.002367
Std Dev 0.1129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

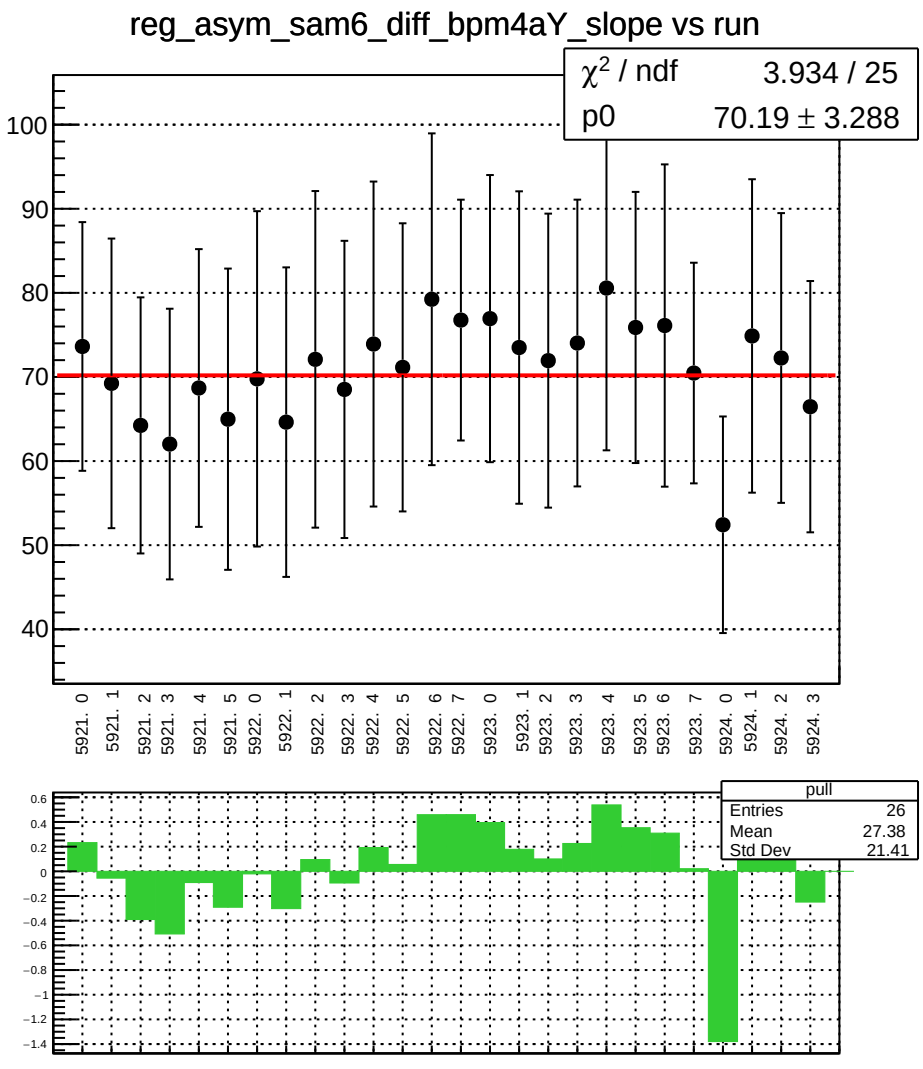

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 3.809 / 25
p0 87.7 ± 4.303
130
120
110
100
90
80
70
60
50
40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 38.11
Std Dev 30.82
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

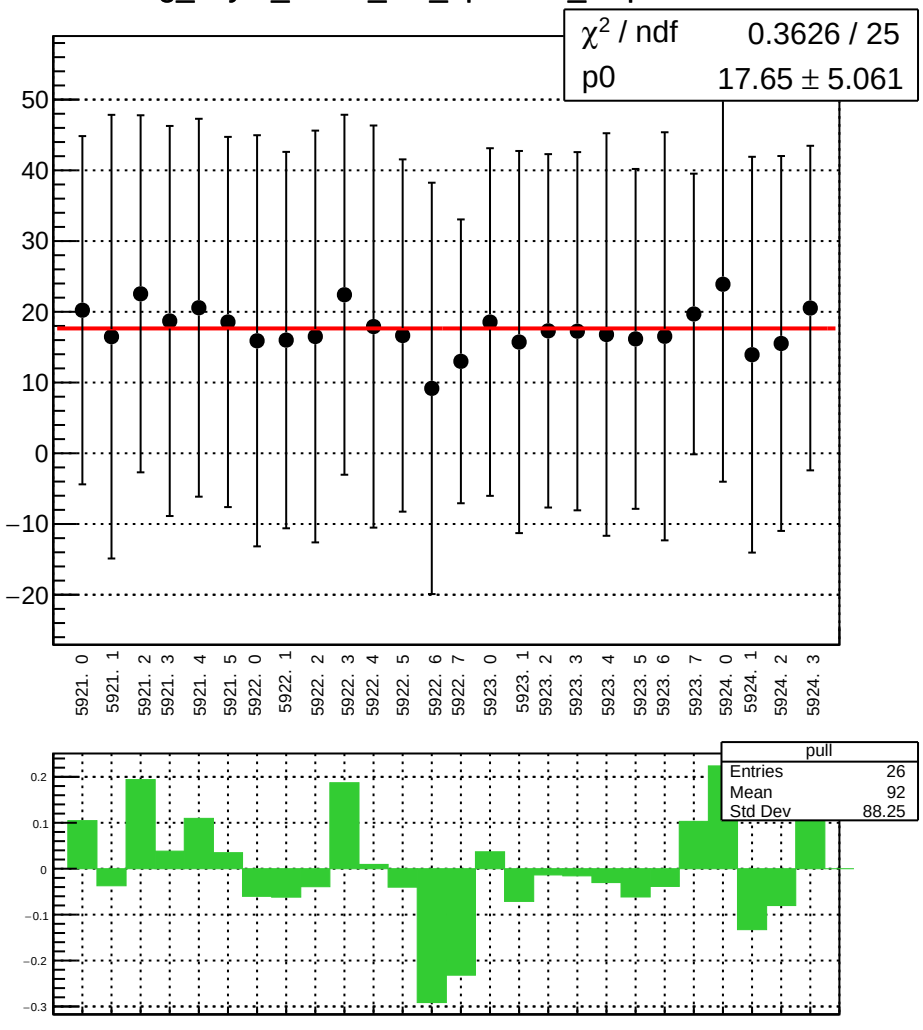

pull1D
Entries 26
Mean −0.02775
Std Dev 0.3818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

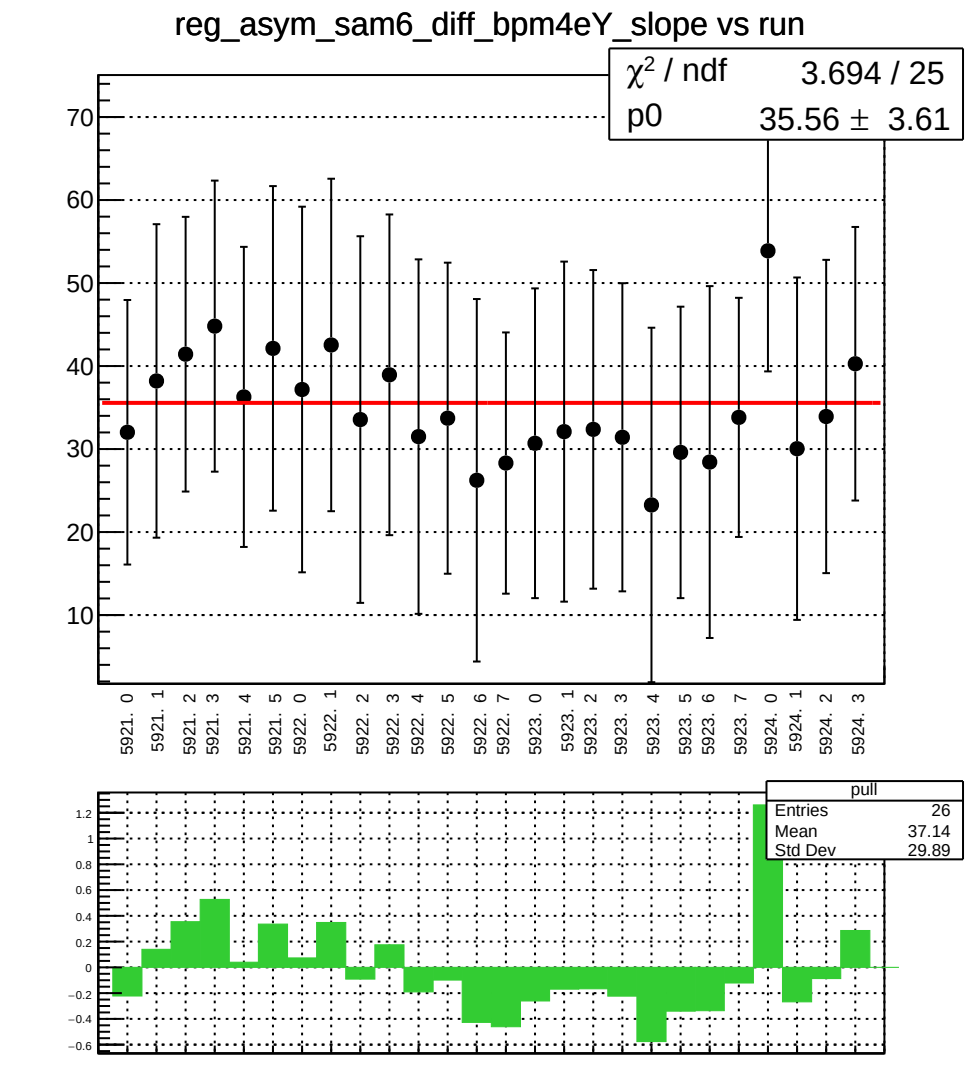

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.4897 / 25
p0 −0.07008 ± 0.2685
pull
Entries 26
Mean 19.53
Std Dev 28.27

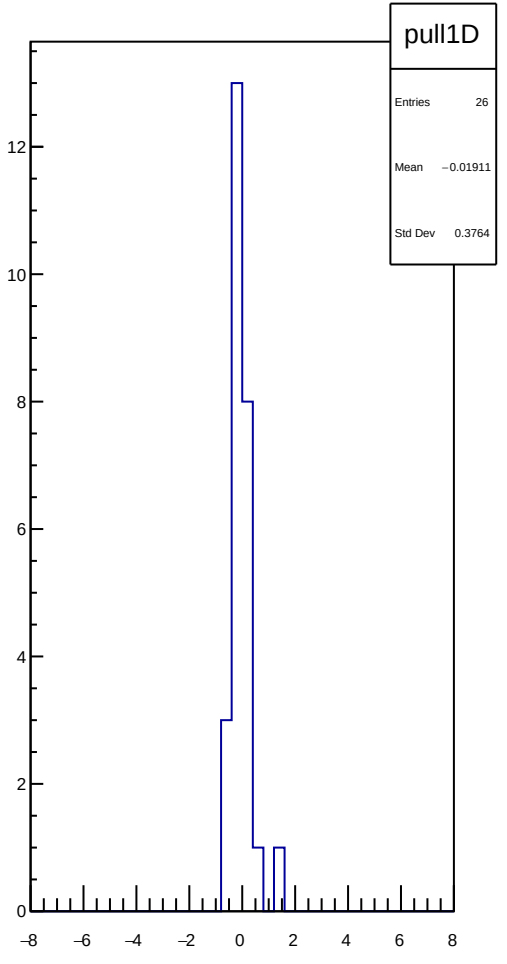

pull1D
Entries 26
Mean −0.002654
Std Dev 0.1372

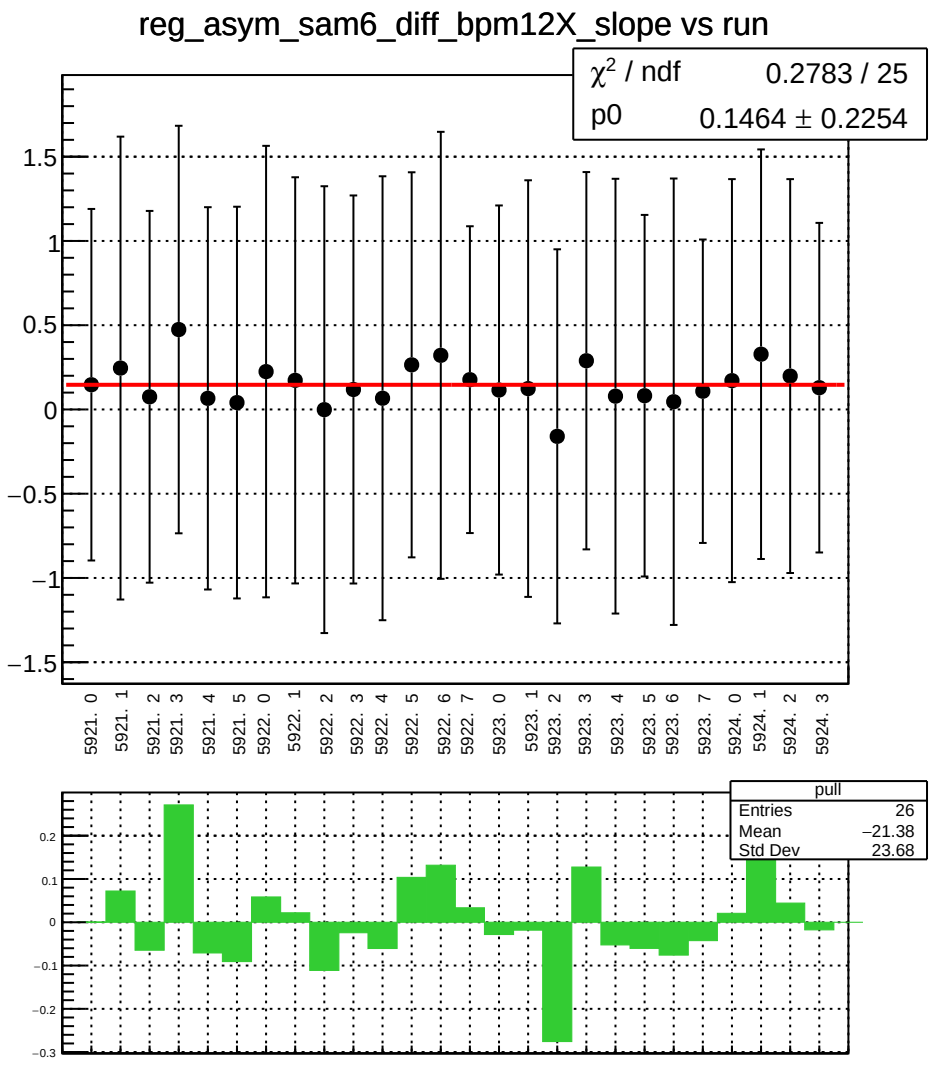

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.3488 / 25
p0 38.18 ± 4.02
70
60
50
40
30
20
10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 48.89
Std Dev 47.88
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean 0.002293
Std Dev 0.1158
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

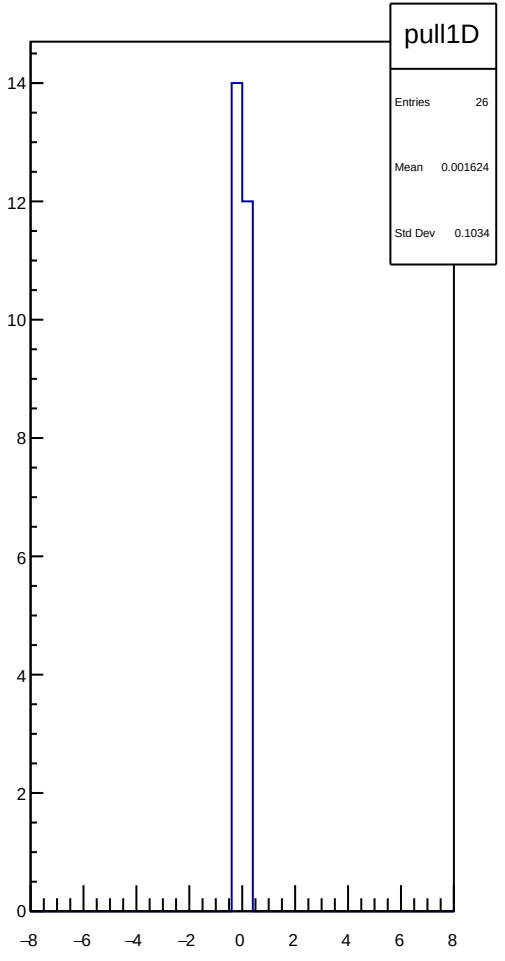

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.934 / 25
p0 70.19 ± 3.288
100
90
80
70
60
50
40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 27.38
Std Dev 21.41
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 26
Mean 0.02329
Std Dev 0.3883
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

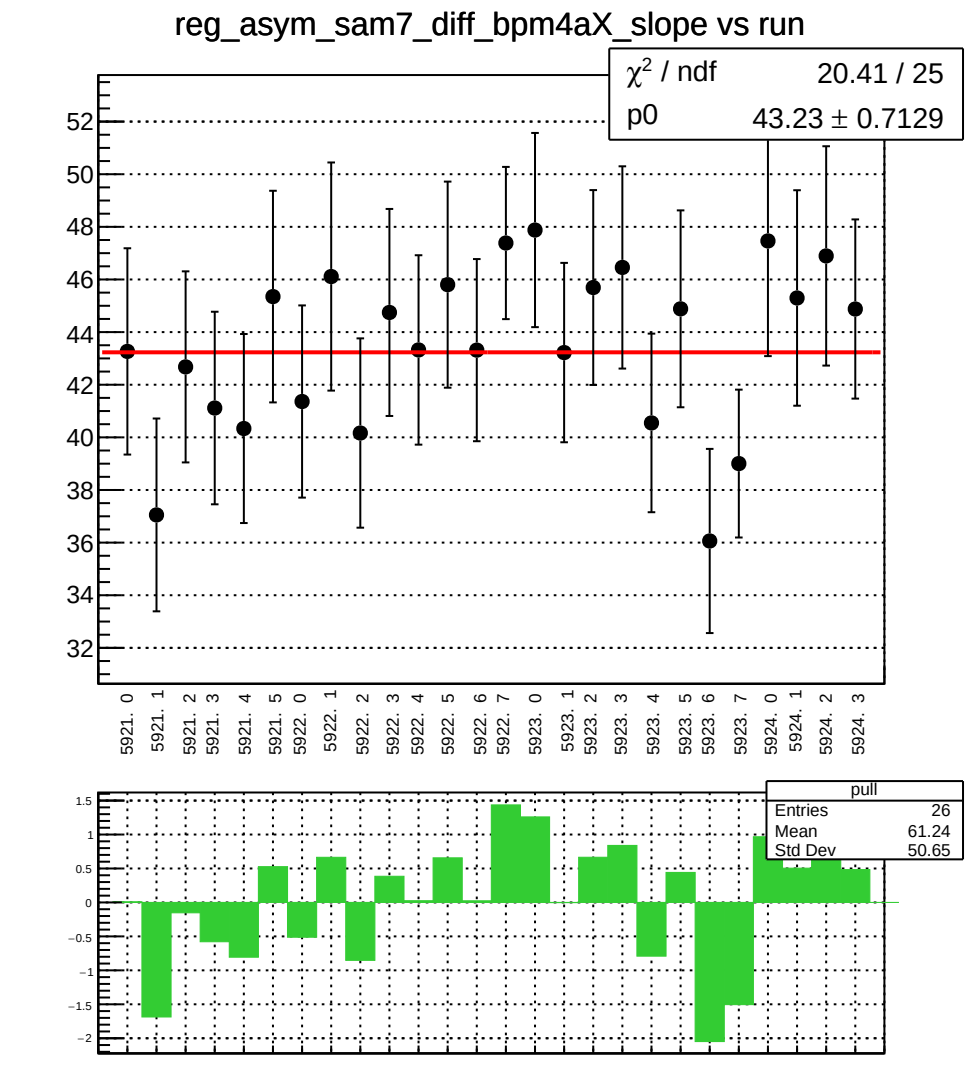

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.3626 / 25
p0 17.65 ± 5.061
50
40
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 92
Std Dev 88.25
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.001458
Std Dev 0.1181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

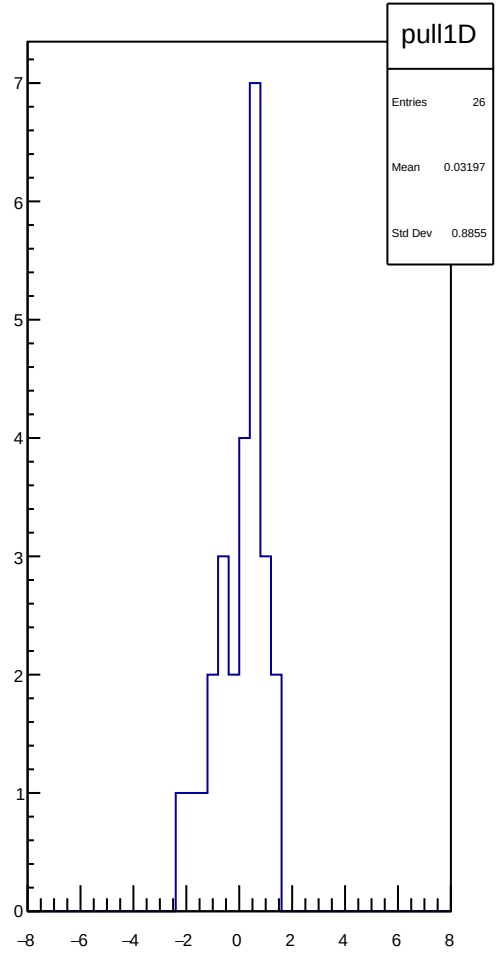

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.694 / 25
p0 35.56 ± 3.61
70
60
50
40
30
20
10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 37.14
Std Dev 29.89
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

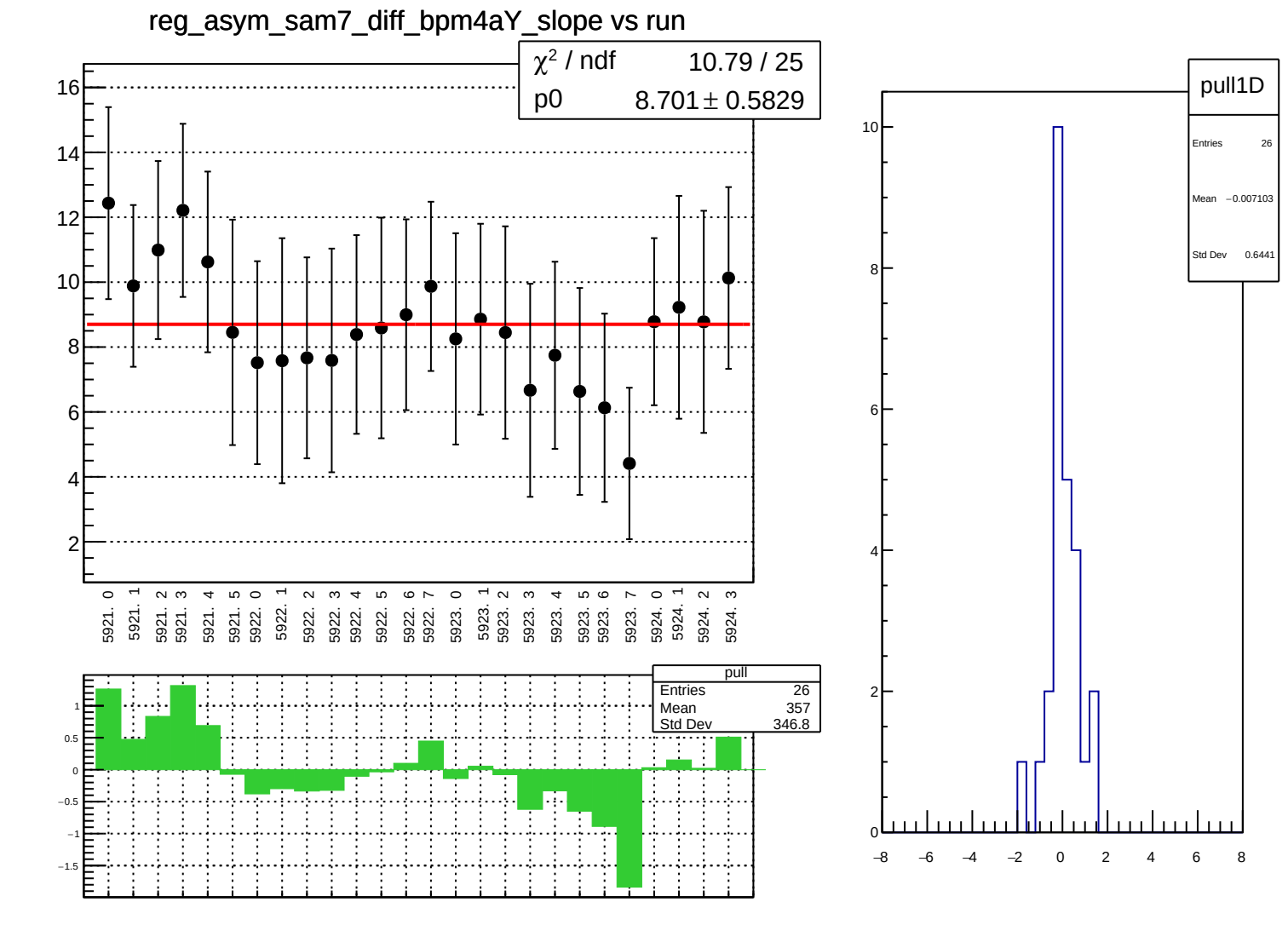

pull1D
Entries 26
Mean −0.01911
Std Dev 0.3764
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

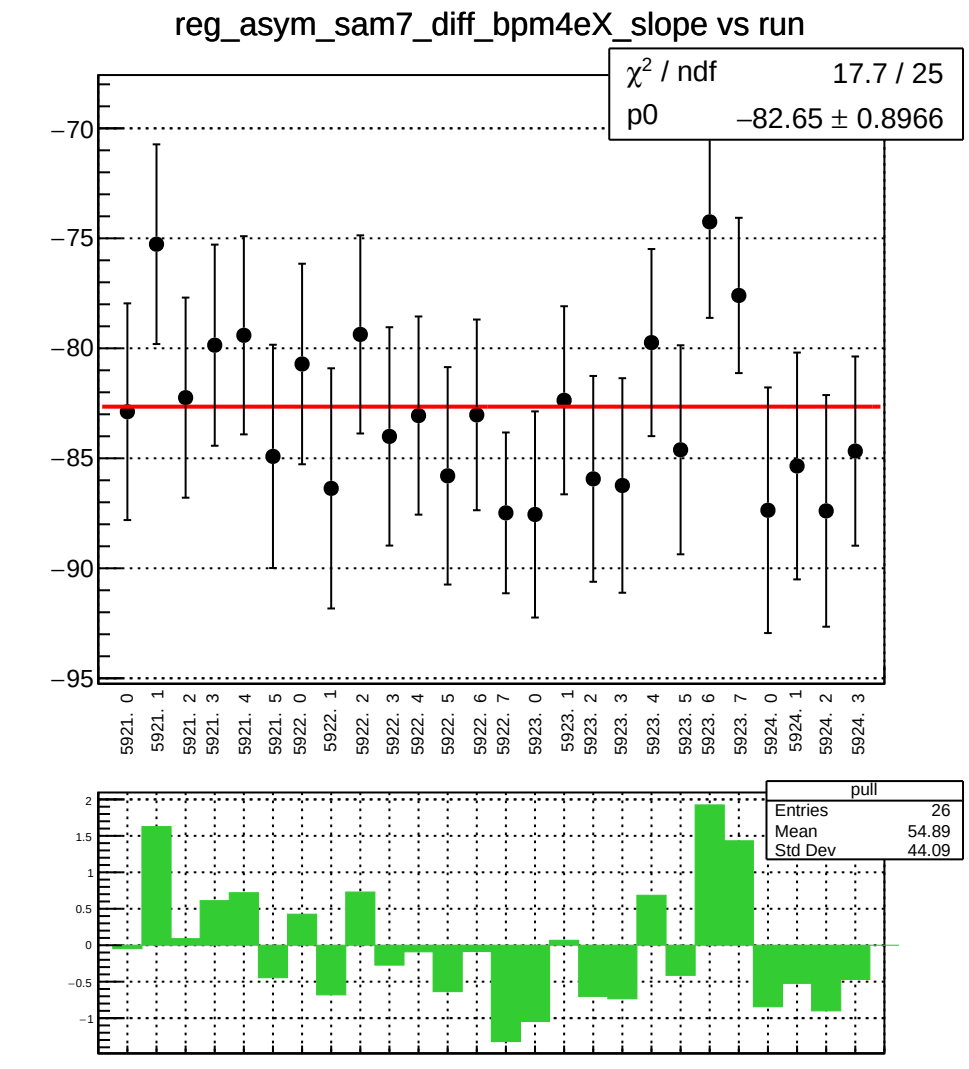

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.2783 / 25
p0 0.1464 ± 0.2254
1.5
1
0.5
0
−0.5
−1
−1.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −21.38
Std Dev 23.68
0.2
0.1
0
−0.1
−0.2
−0.3

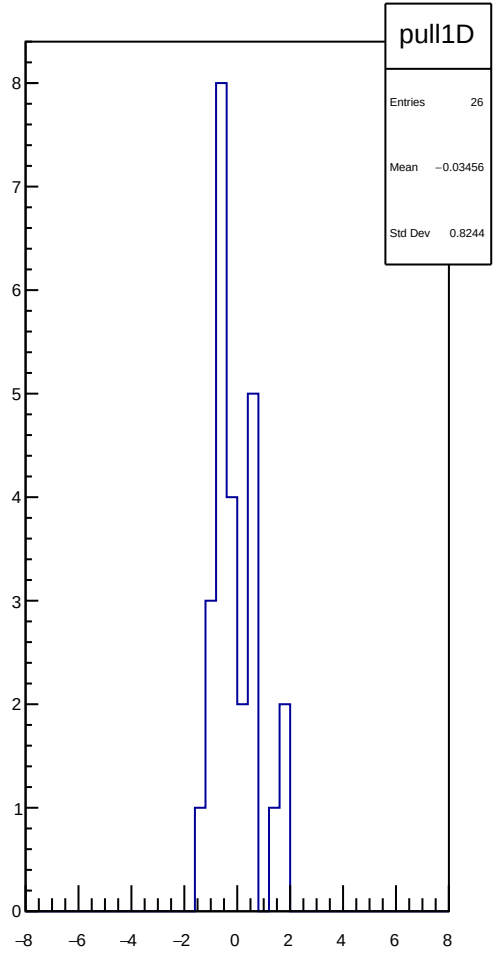

pull1D
Entries 26
Mean 0.001624
Std Dev 0.1034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

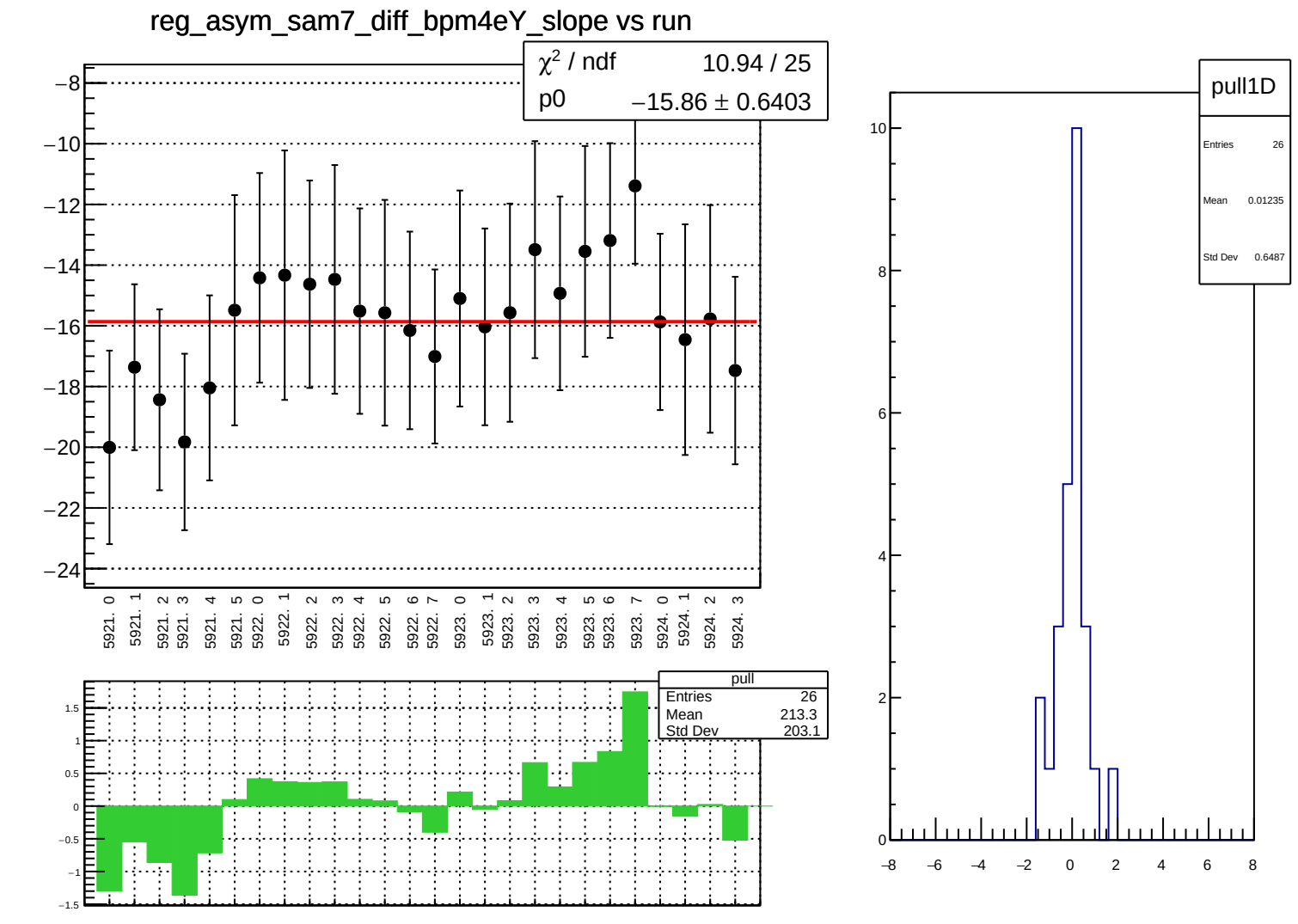

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 20.41 / 25
p0 43.23 ± 0.7129
pull
Entries 26
Mean 61.24
Std Dev 50.65

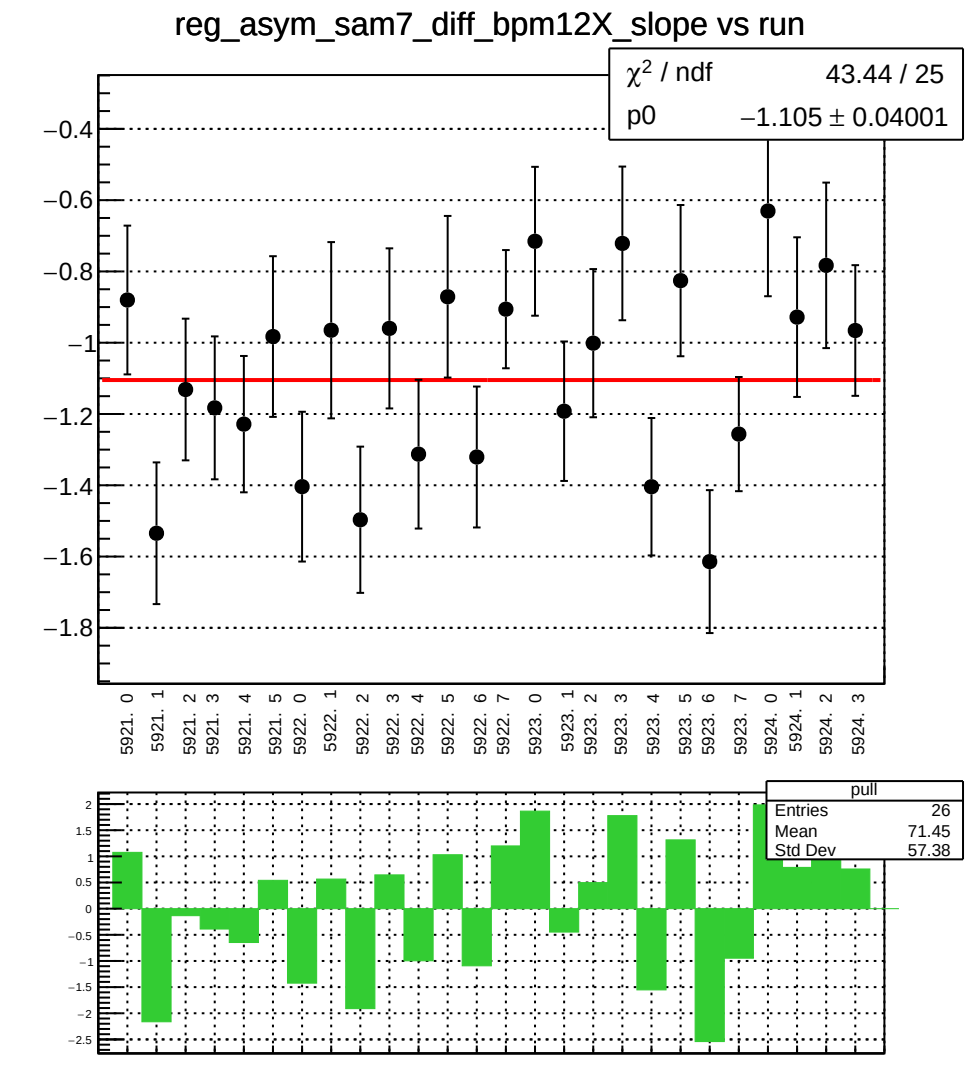

pull1D
Entries 26
Mean 0.03197
Std Dev 0.8855

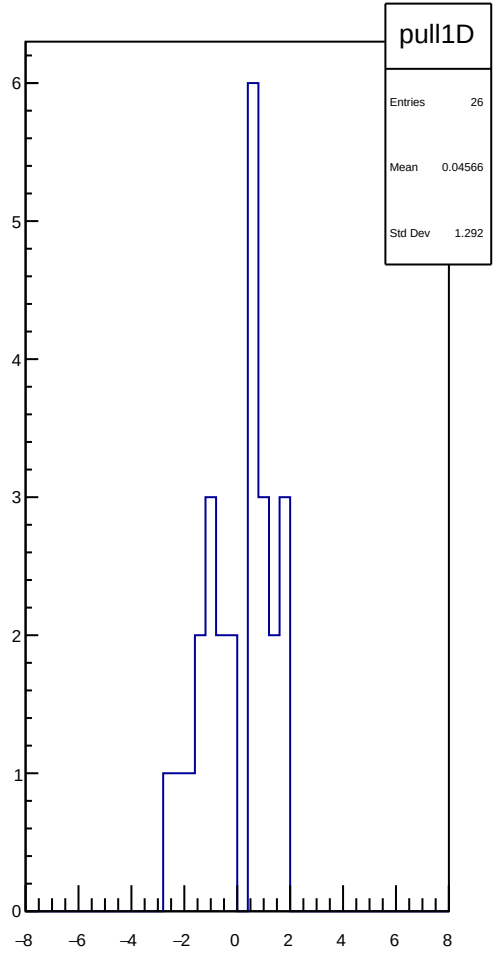

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 10.79 / 25
p0 8.701 ± 0.5829
pull
Entries 26
Mean 357
Std Dev 346.8
pull1D
Entries 26
Mean −0.007103
Std Dev 0.6441

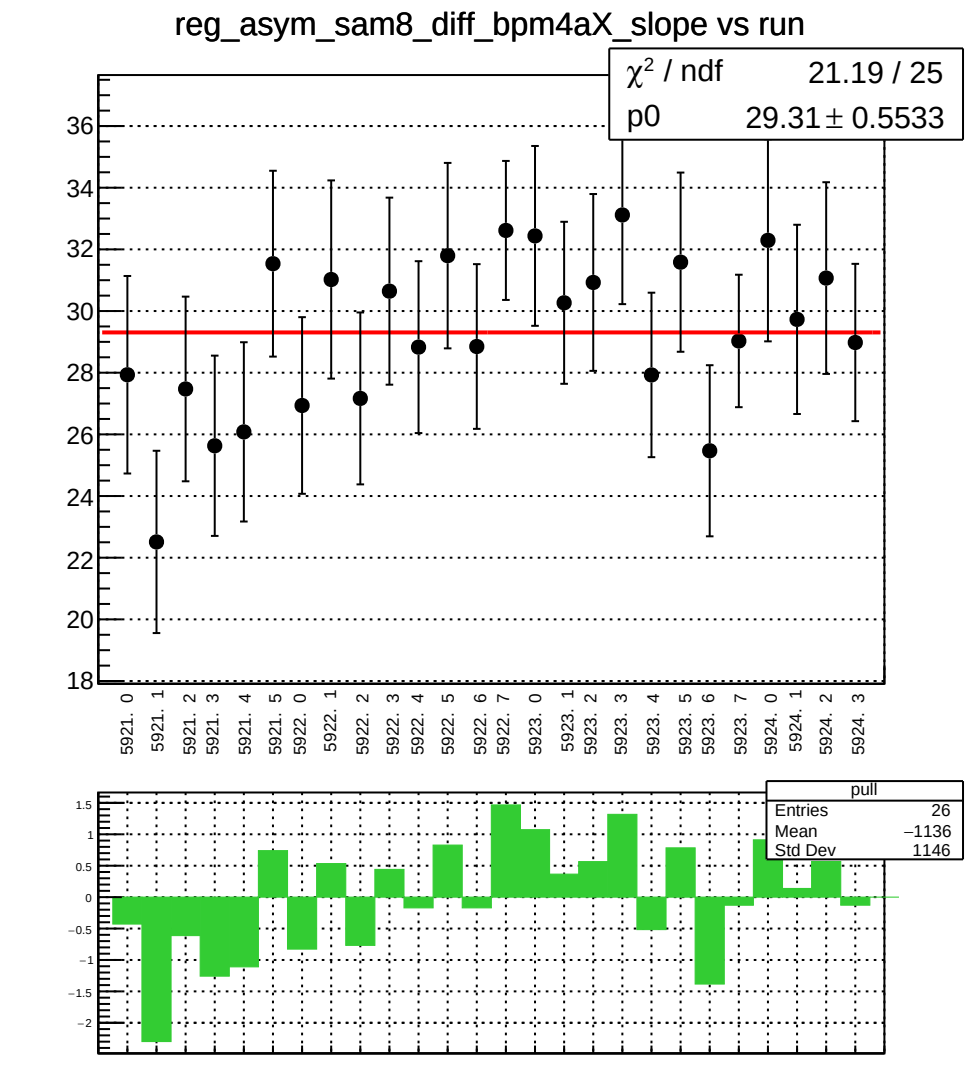

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 17.7 / 25
p0 −82.65 ± 0.8966
−70
−75
−80
−85
−90
−95
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 54.89
Std Dev 44.09
2
1.5
1
0.5
0
−0.5
−1

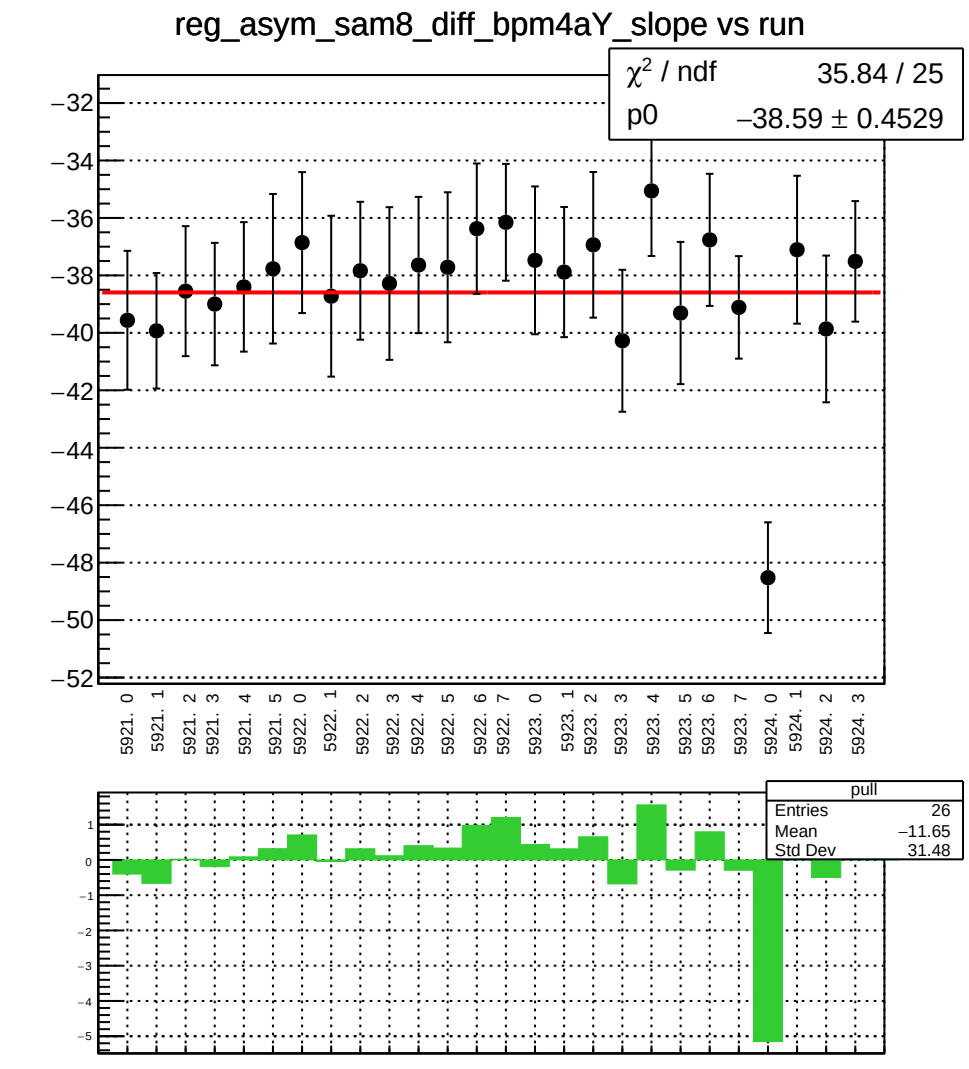

pull1D
Entries 26
Mean −0.03456
Std Dev 0.8244
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

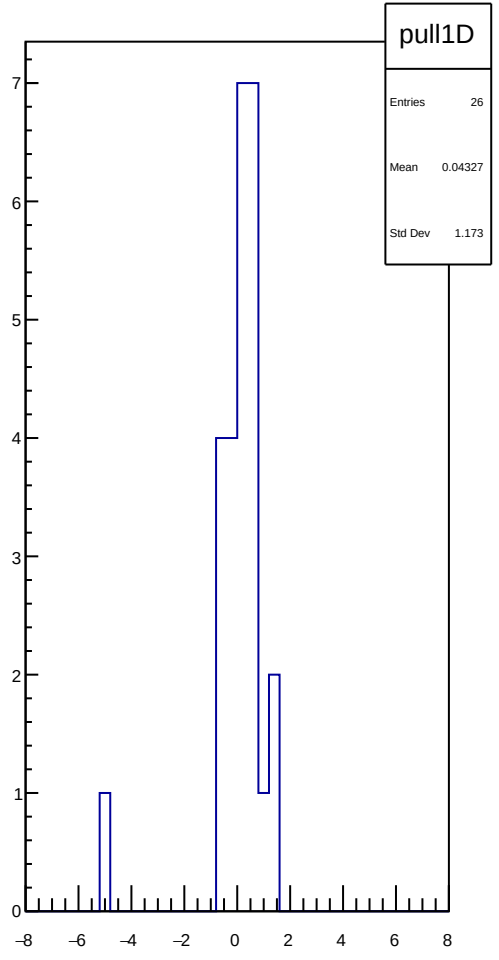

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.94 / 25
p0 −15.86 ± 0.6403
−8
−10
−12
−14
−16
−18
−20
−22
−24
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 213.3
Std Dev 203.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01235
Std Dev 0.6487
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

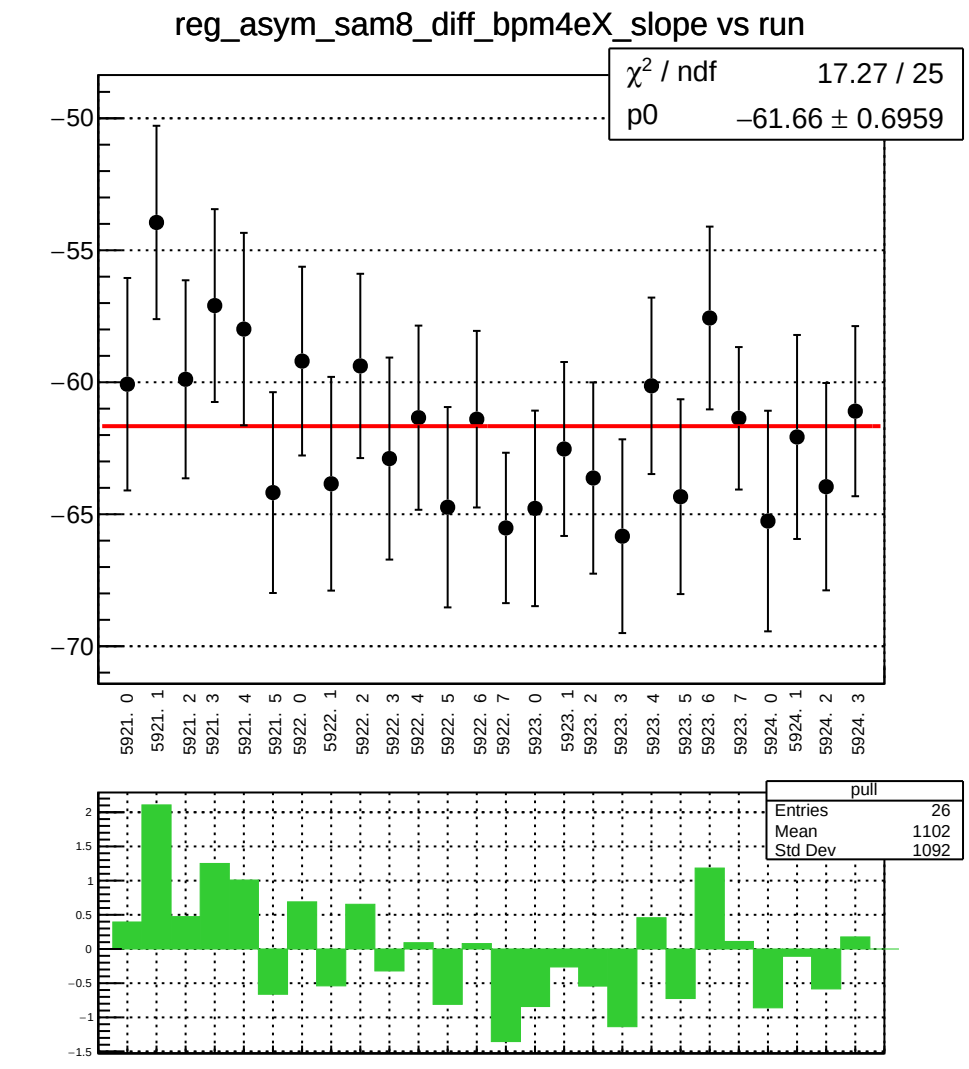

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 43.44 / 25
p0 −1.105 ± 0.04001
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 71.45
Std Dev 57.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

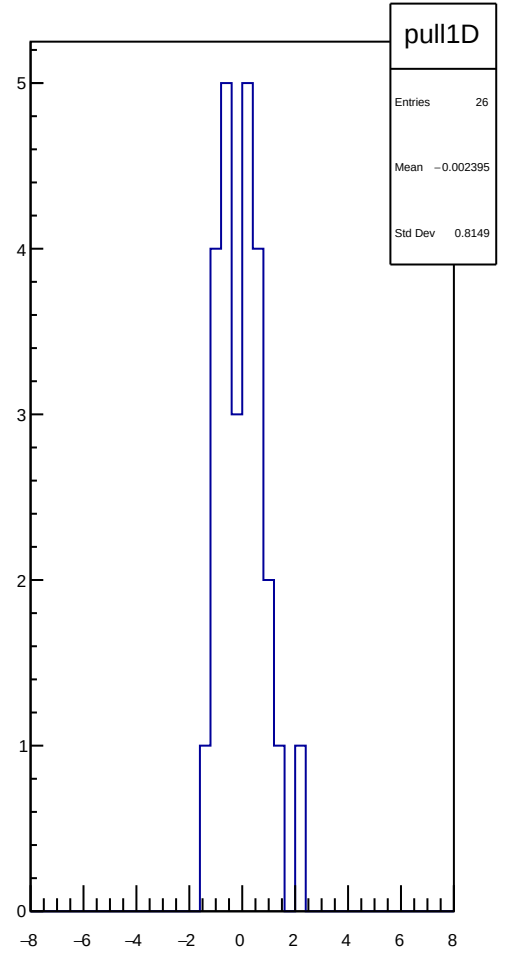

pull1D
Entries 26
Mean 0.04566
Std Dev 1.292
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

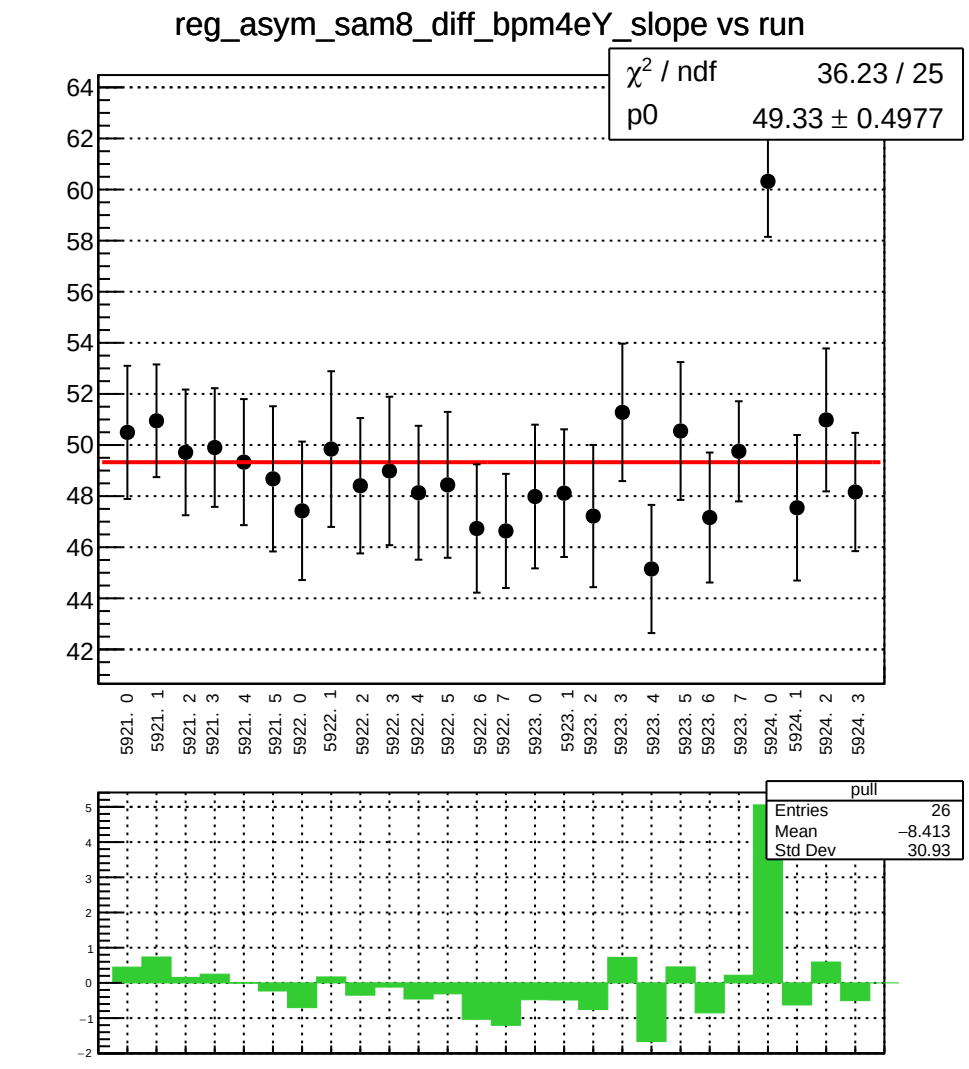

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 21.19 / 25
p0 29.31 ± 0.5533
pull
Entries 26
Mean −1136
Std Dev 1146
pull1D
Entries 26
Mean −0.002498
Std Dev 0.9028

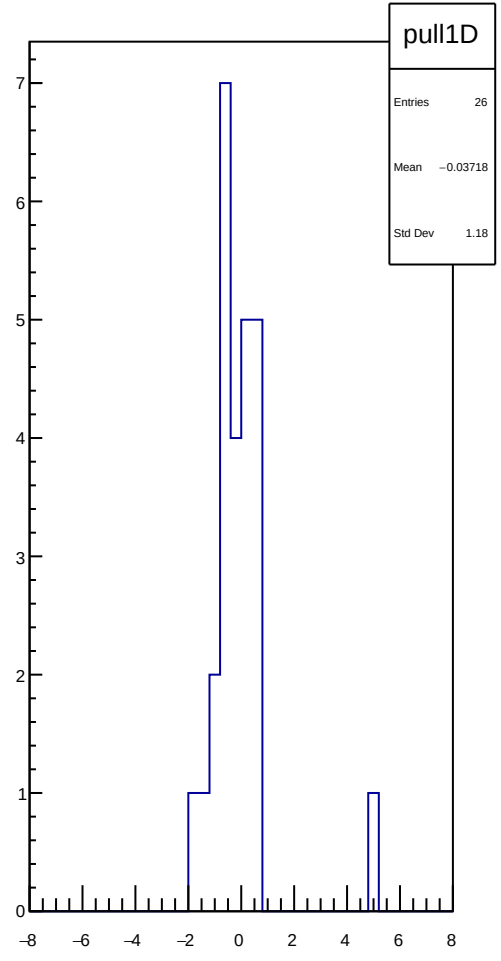

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 35.84 / 25
p0 −38.59 ± 0.4529
pull
Entries 26
Mean −11.65
Std Dev 31.48

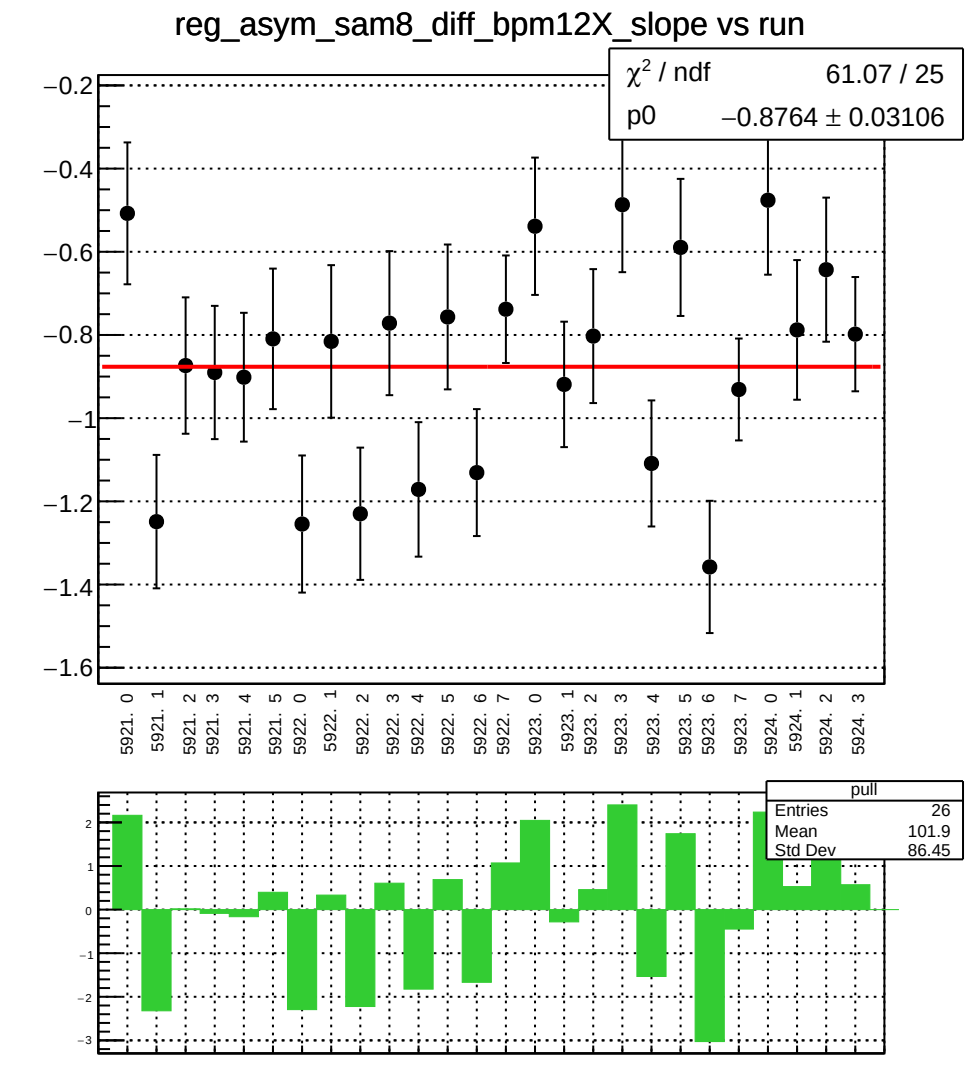

pull1D
Entries 26
Mean 0.04327
Std Dev 1.173

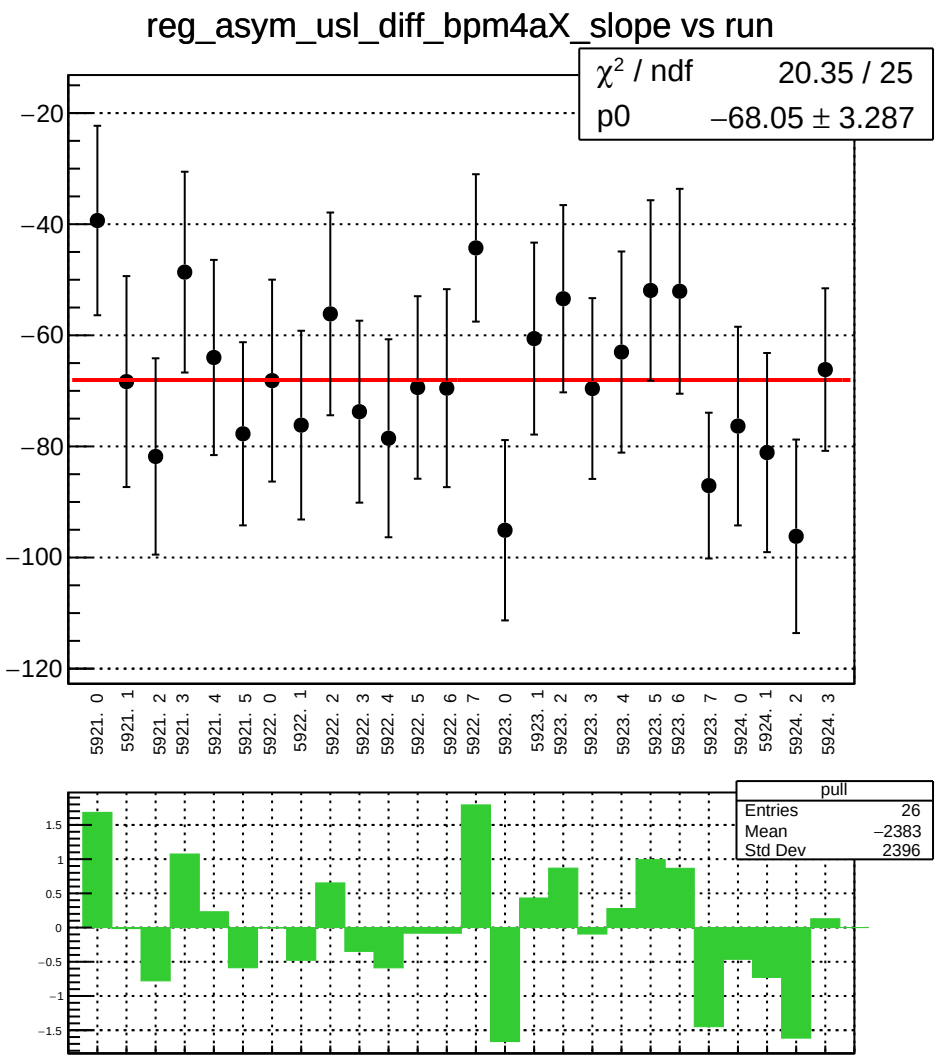

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 17.27 / 25
p0 −61.66 ± 0.6959
−50
−55
−60
−65
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1102
Std Dev 1092
2
1.5
1
0.5
0
−0.5
−1
−1.5

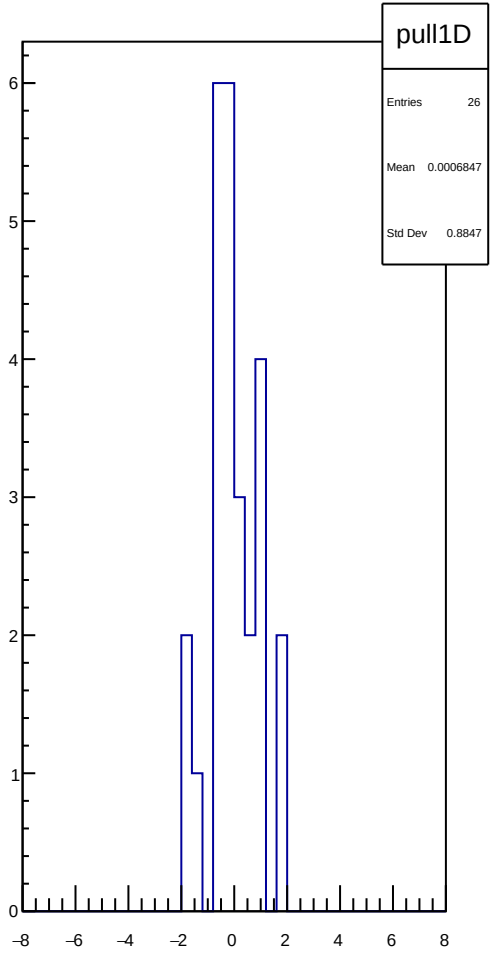

pull1D
Entries 26
Mean −0.002395
Std Dev 0.8149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

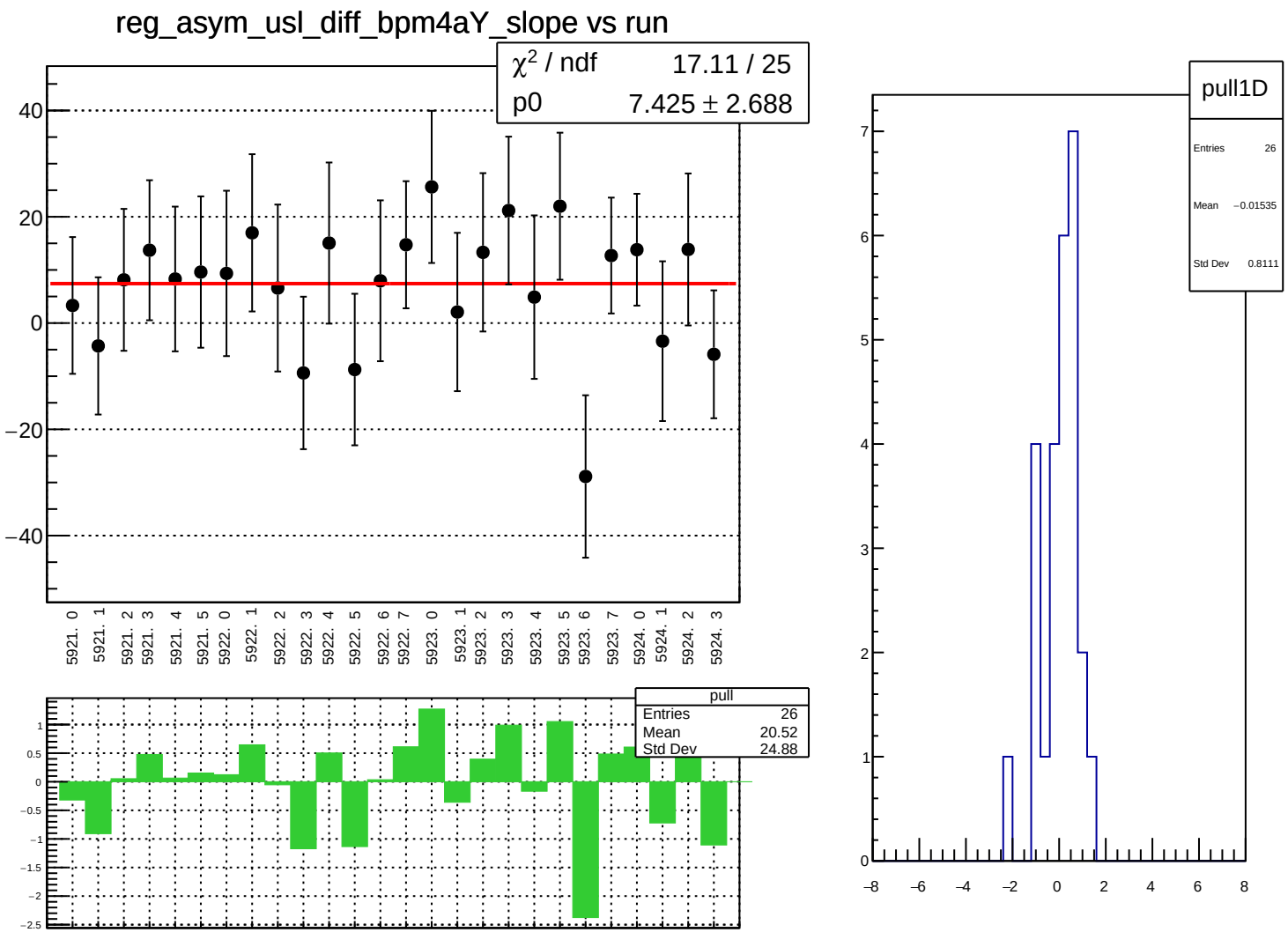

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 36.23 / 25
p0 49.33 ± 0.4977
pull
Entries 26
Mean −8.413
Std Dev 30.93

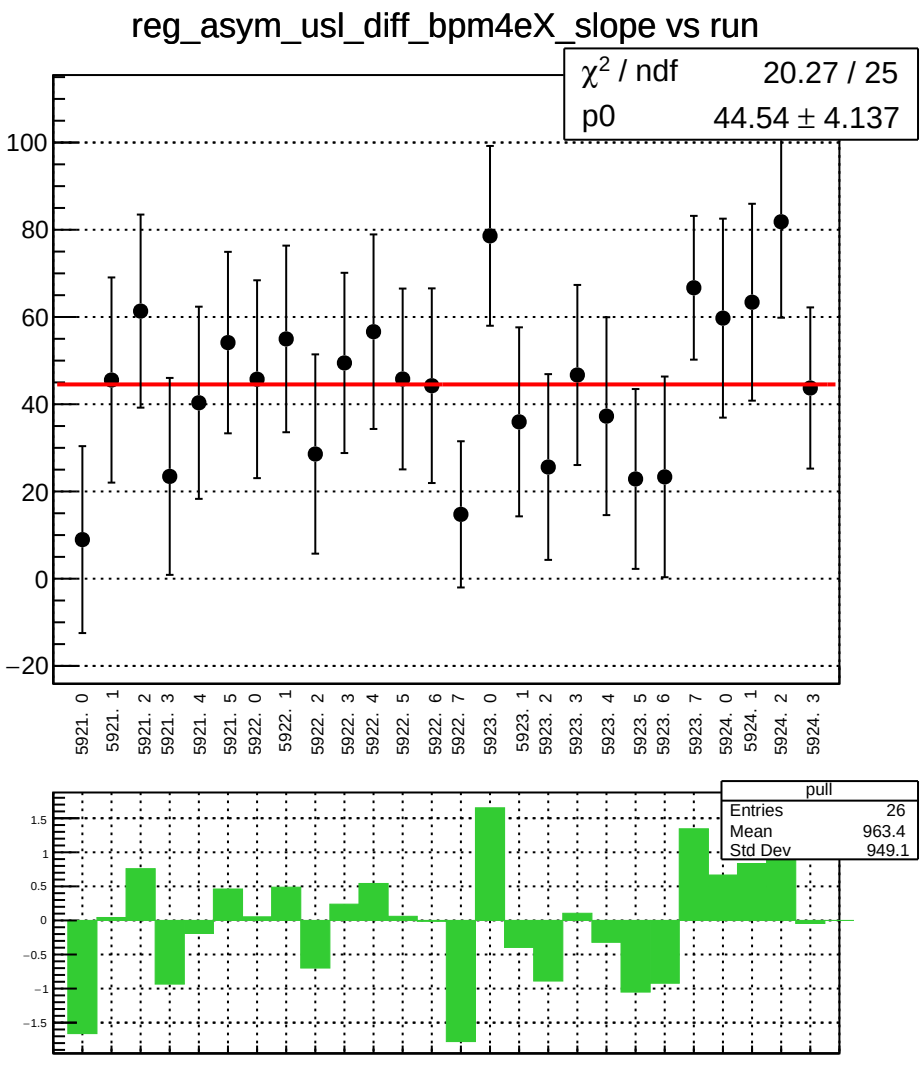

pull1D
Entries 26
Mean −0.03718
Std Dev 1.18

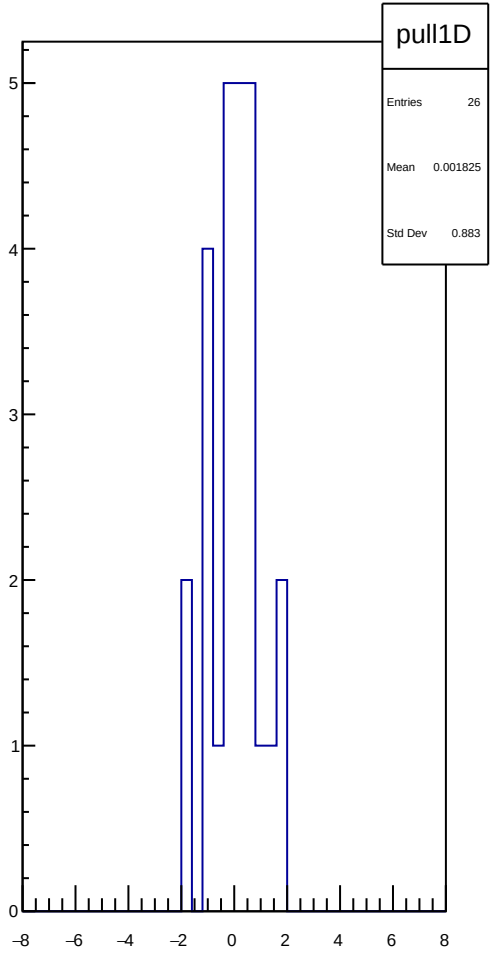

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 61.07 / 25
p0 −0.8764 ± 0.03106
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 101.9
Std Dev 86.45
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean 0.02819
Std Dev 1.532
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

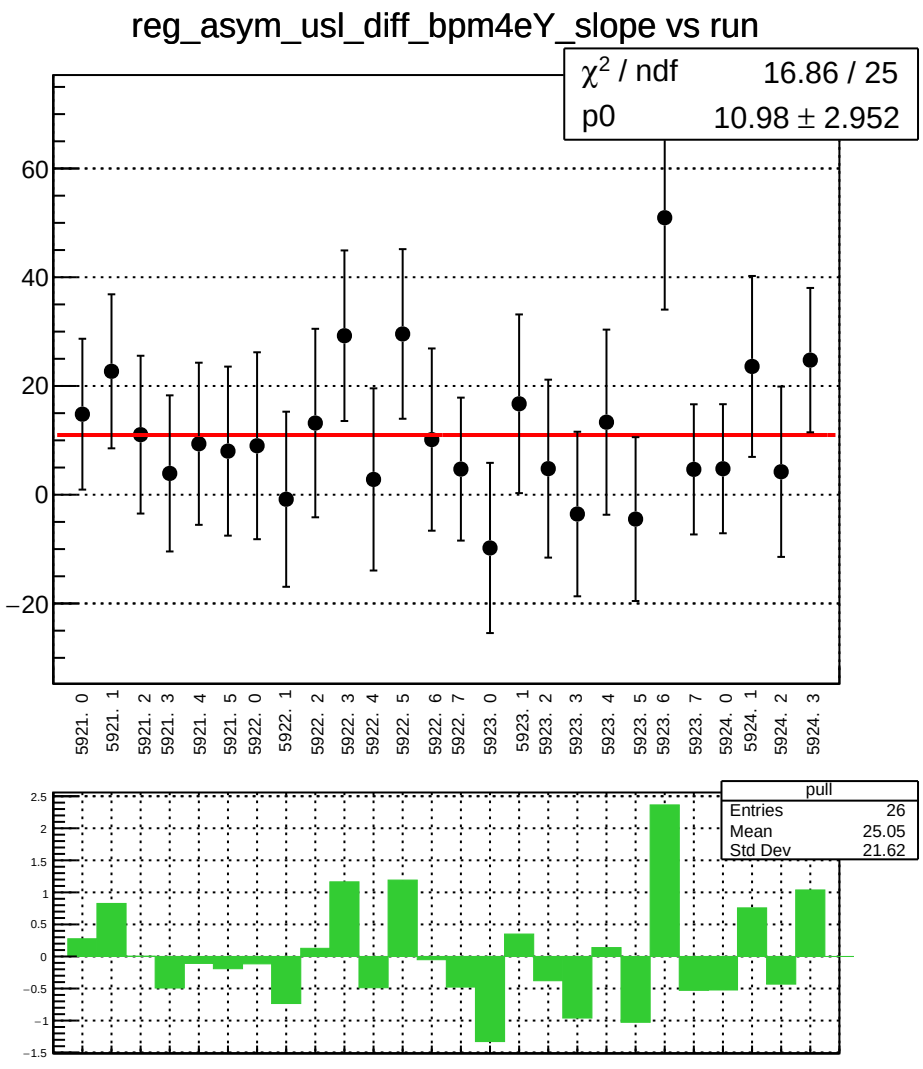

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 20.35 / 25
p0 −68.05 ± 3.287
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −2383
Std Dev 2396
1.5
1
0.5
0
−0.5
−1
−1.5

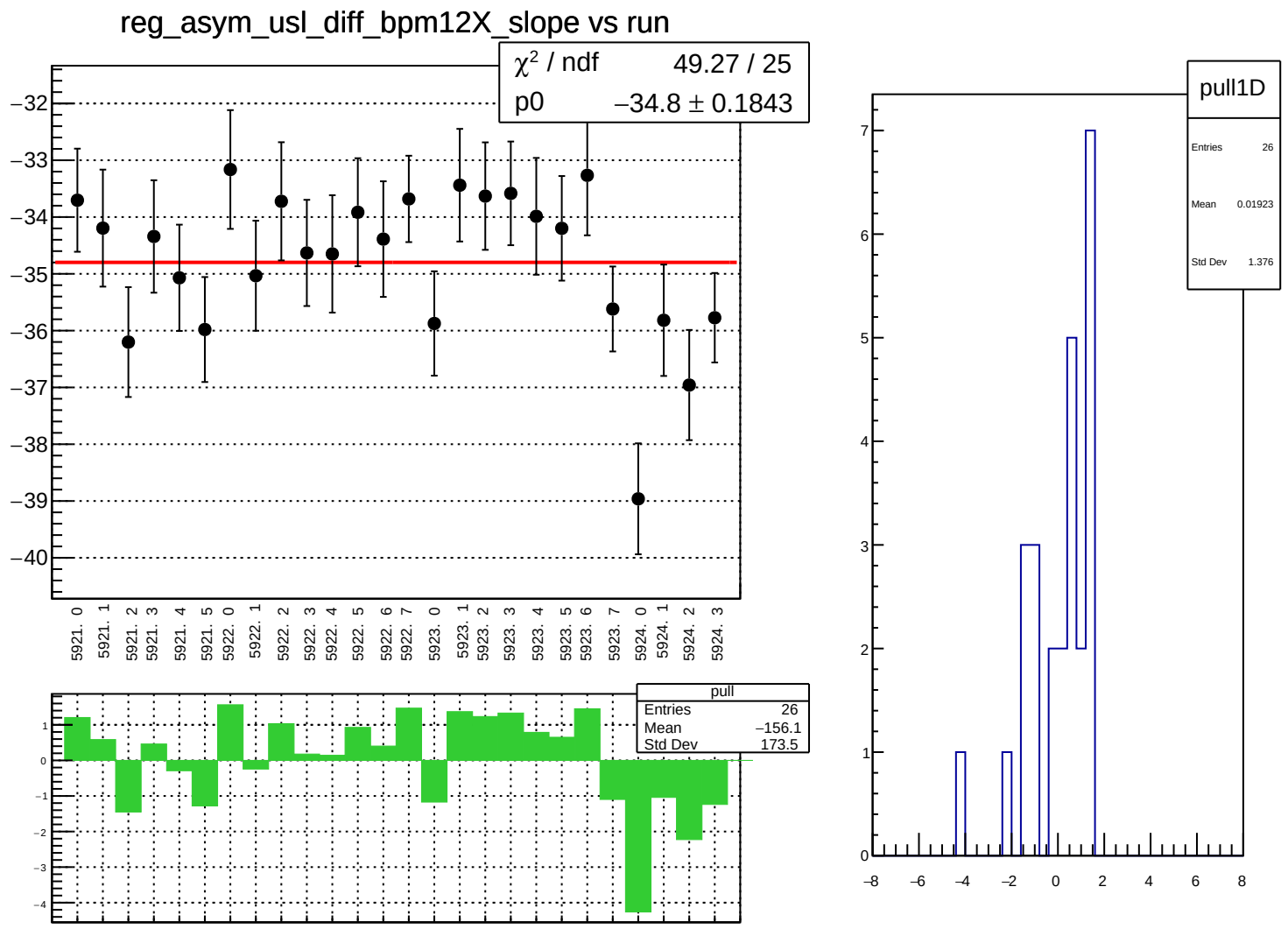

pull1D
Entries 26
Mean 0.0006847
Std Dev 0.8847
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

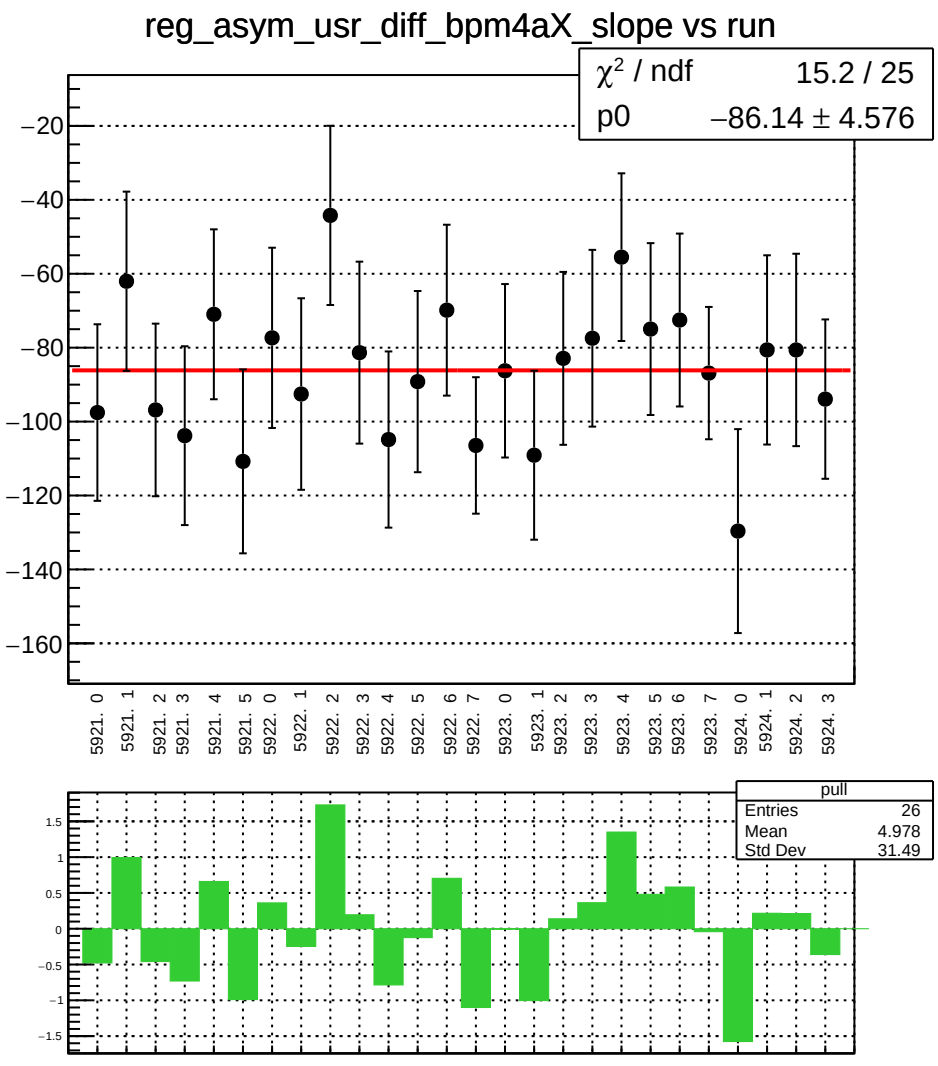

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 17.11 / 25
p0 7.425 ± 2.688
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 20.52
Std Dev 24.88
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean −0.01535
Std Dev 0.8111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

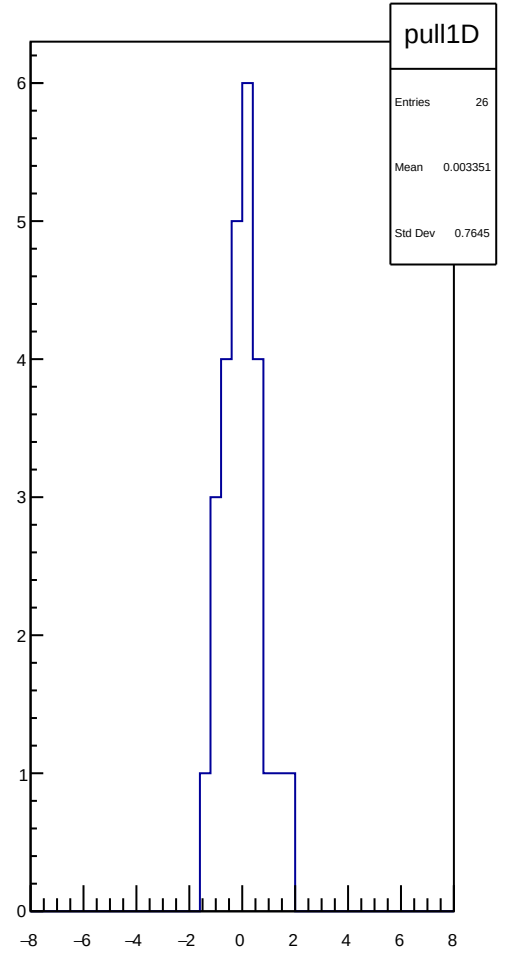

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 20.27 / 25
p0 44.54 ± 4.137
100
80
60
40
20
0
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 963.4
Std Dev 949.1
1.5
1
0.5
0
−0.5
−1
−1.5

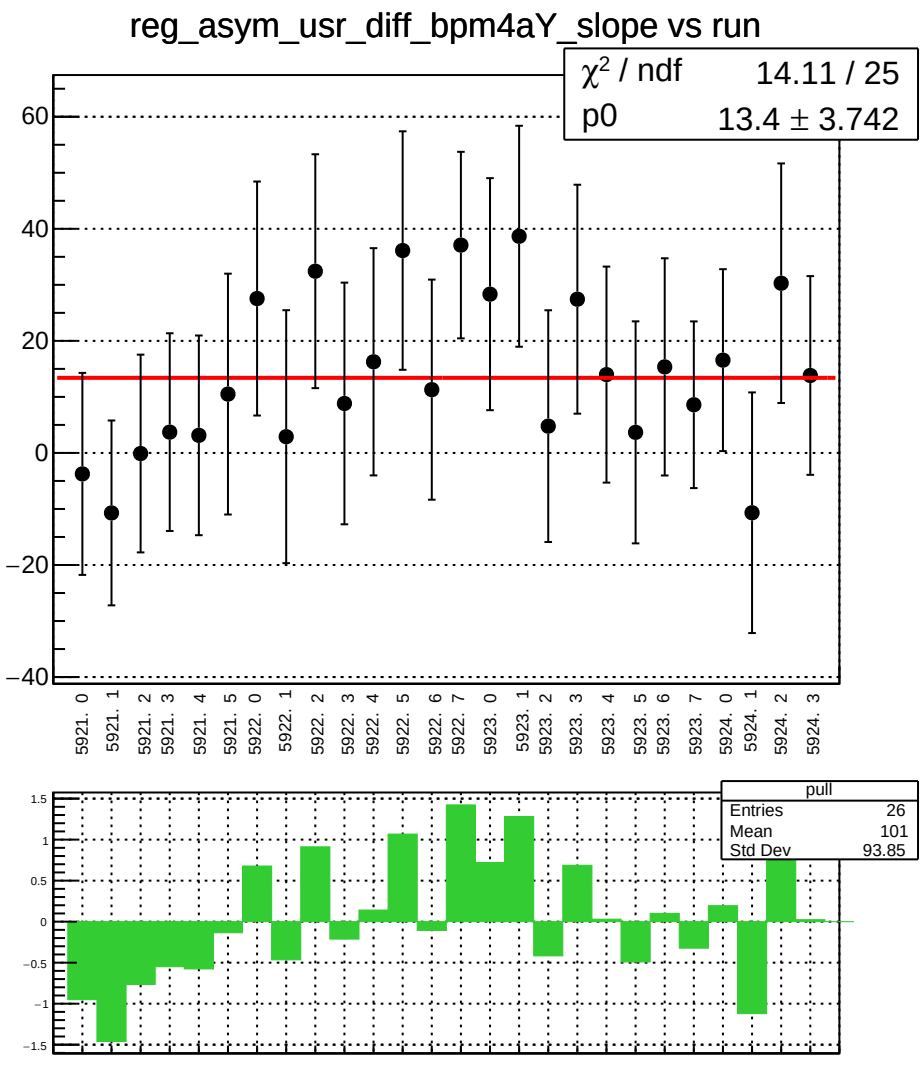

pull1D
Entries 26
Mean 0.001825
Std Dev 0.883
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

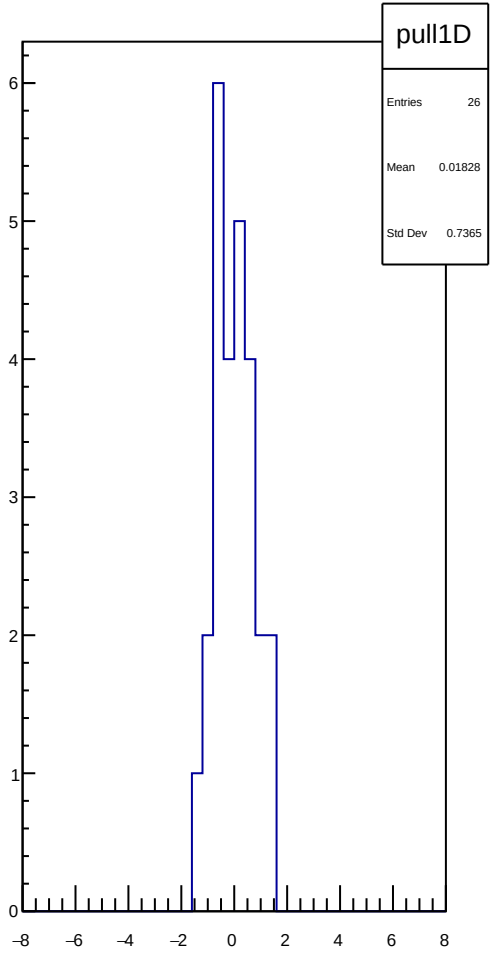

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 16.86 / 25
p0 10.98 ± 2.952
60
40
20
0
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 25.05
Std Dev 21.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.0158
Std Dev 0.8051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

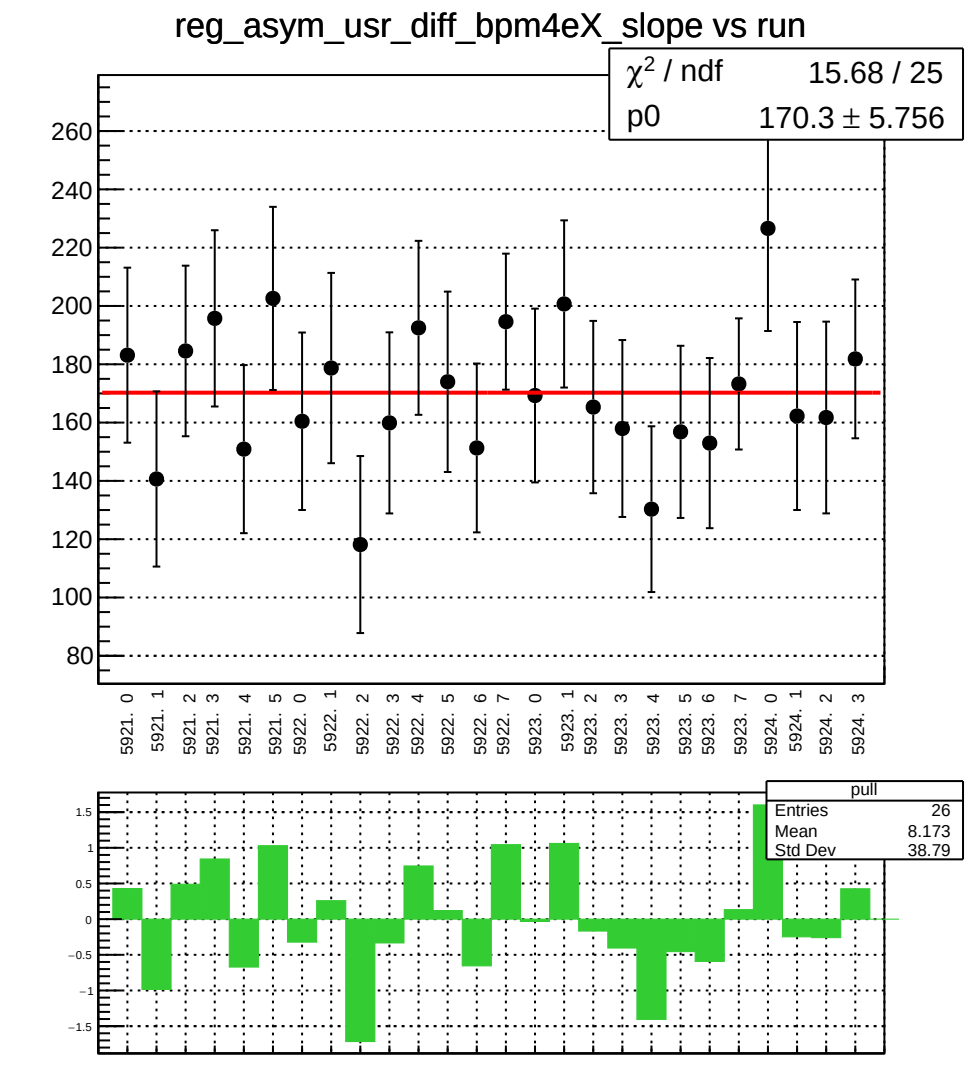

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 49.27 / 25
p0 −34.8 ± 0.1843
−32
−33
−34
−35
−36
−37
−38
−39
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −156.1
Std Dev 173.5
1
0
−1
−2
−3
−4
pull1D
Entries 26
Mean 0.01923
Std Dev 1.376
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

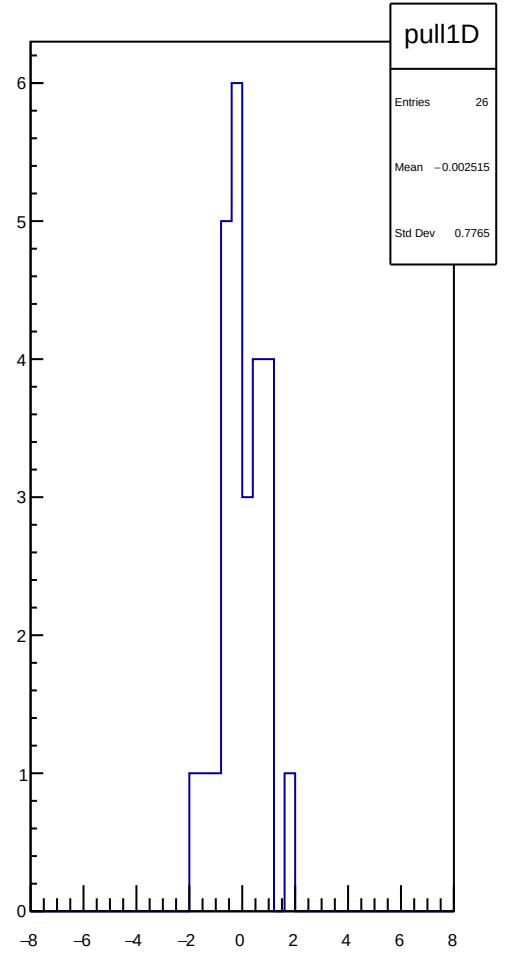

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 15.2 / 25
p0 −86.14 ± 4.576
−20
−40
−60
−80
−100
−120
−140
−160
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4.978
Std Dev 31.49
1.5
1
0.5
0
−0.5
−1
−1.5

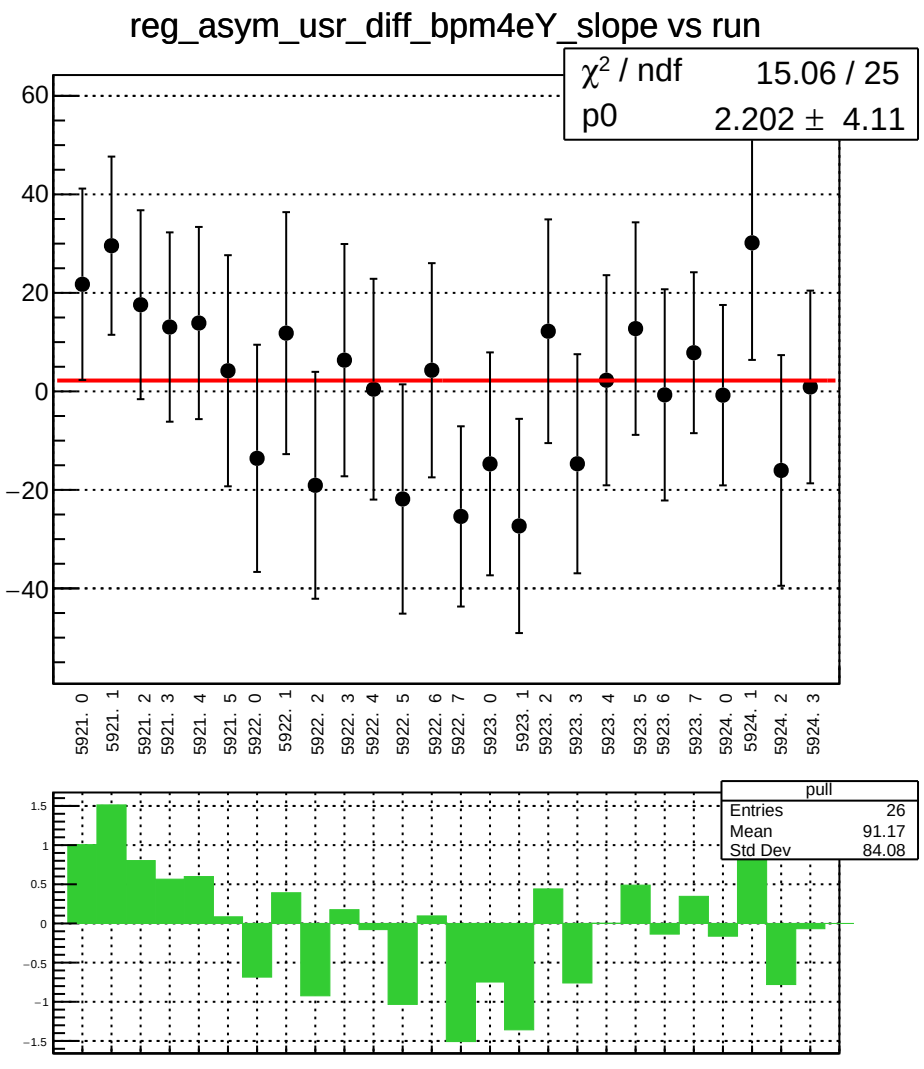

pull1D
Entries 26
Mean 0.003351
Std Dev 0.7645
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

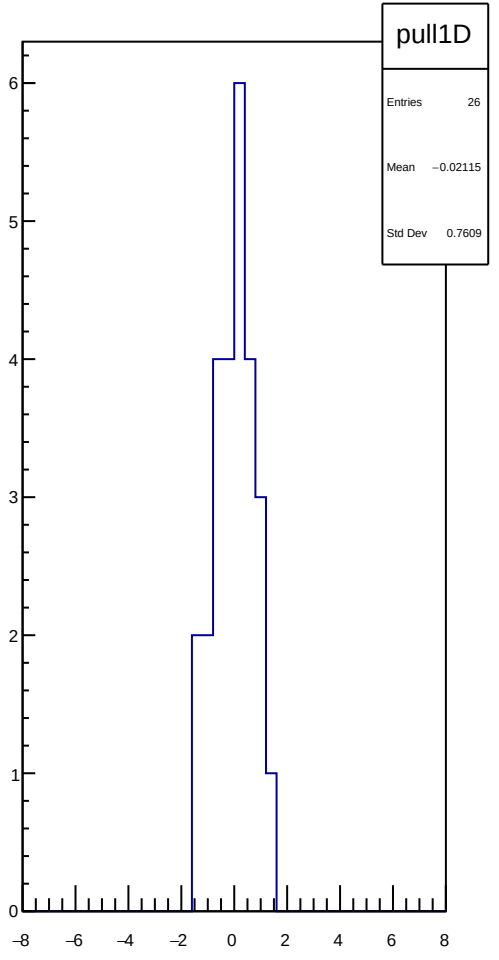

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14.11 / 25
p0 13.4 ± 3.742
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 101
Std Dev 93.85
1.5
1
0.5
0
−0.5
−1
−1.5

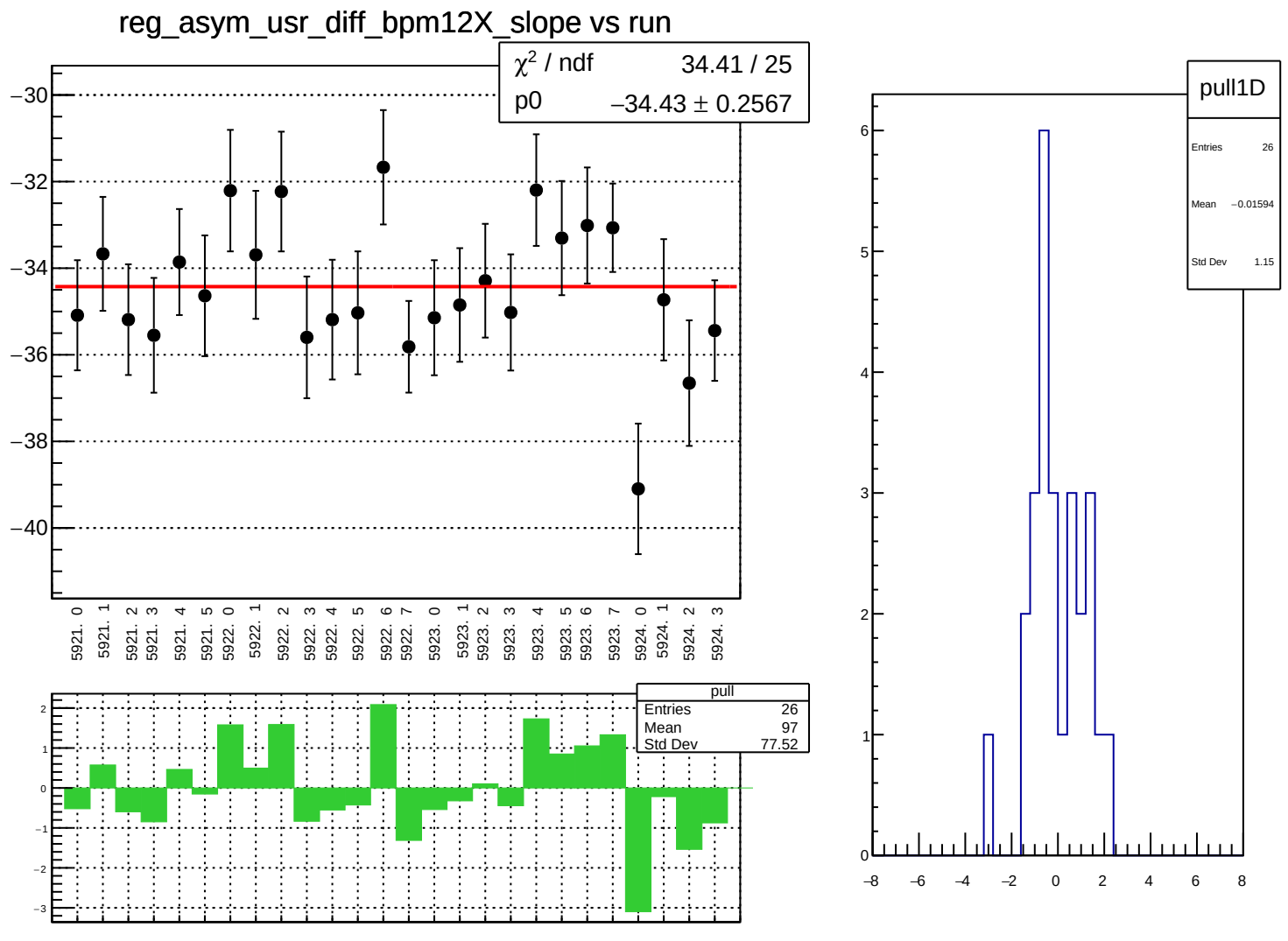

pull1D
Entries 26
Mean 0.01828
Std Dev 0.7365
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

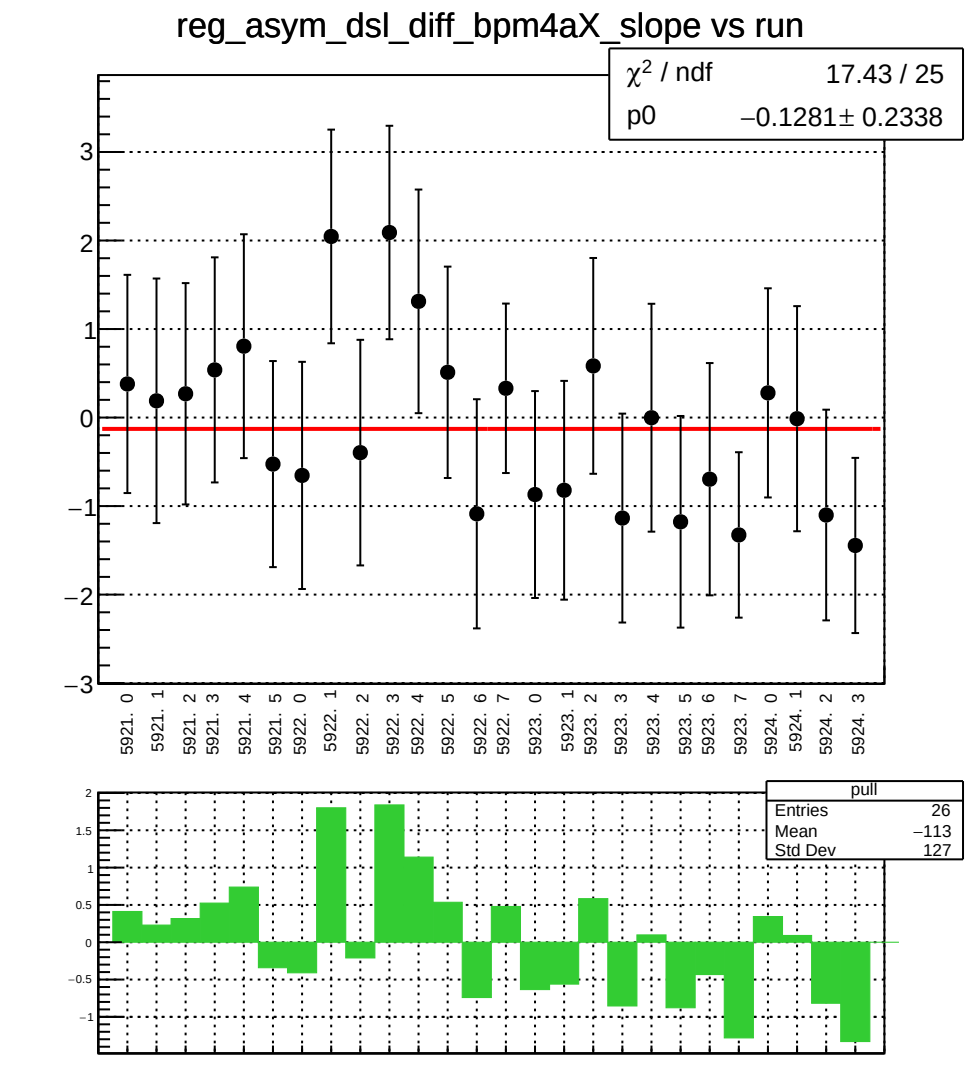

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 15.68 / 25
p0 170.3 ± 5.756
260
240
220
200
180
160
140
120
100
80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.173
Std Dev 38.79
1.5
1
0.5
0
−0.5
−1
−1.5

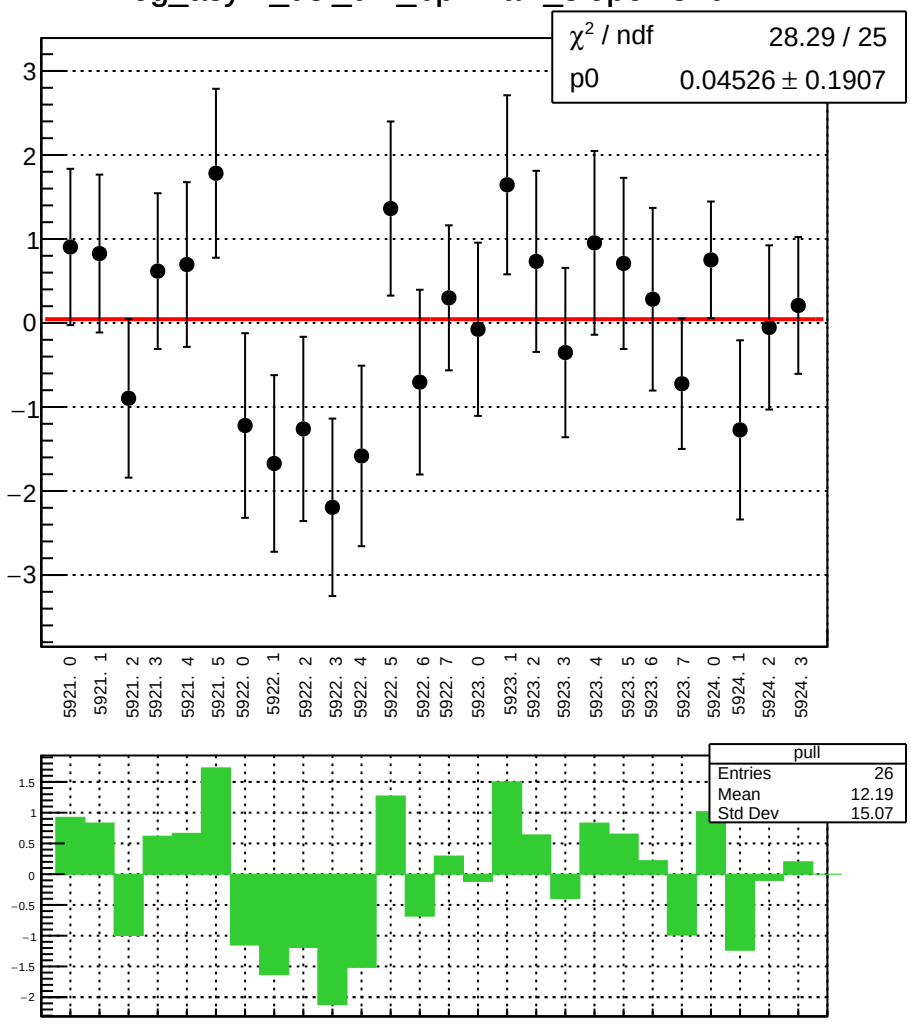

pull1D
Entries 26
Mean −0.002515
Std Dev 0.7765
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

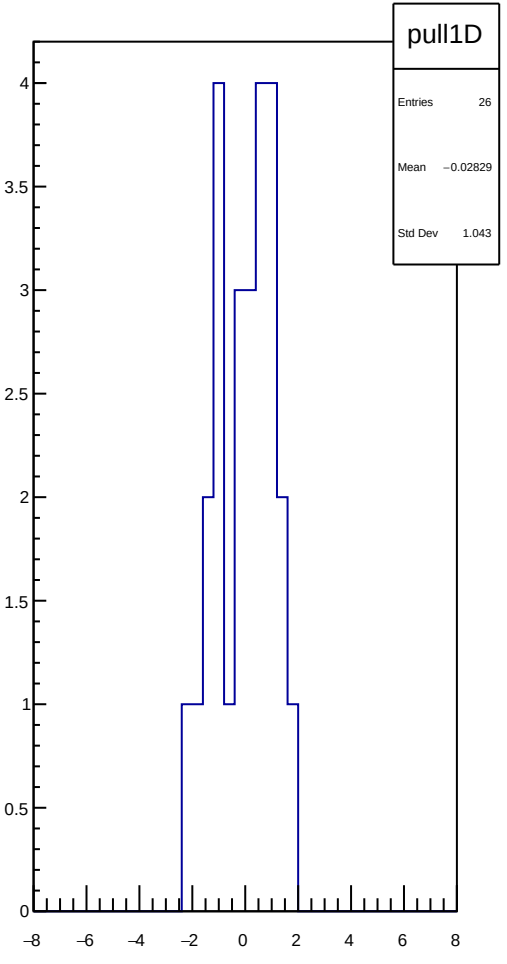

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 15.06 / 25
p0 2.202 ± 4.11
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 91.17
Std Dev 84.08
1.5
1
0.5
0
−0.5
−1
−1.5

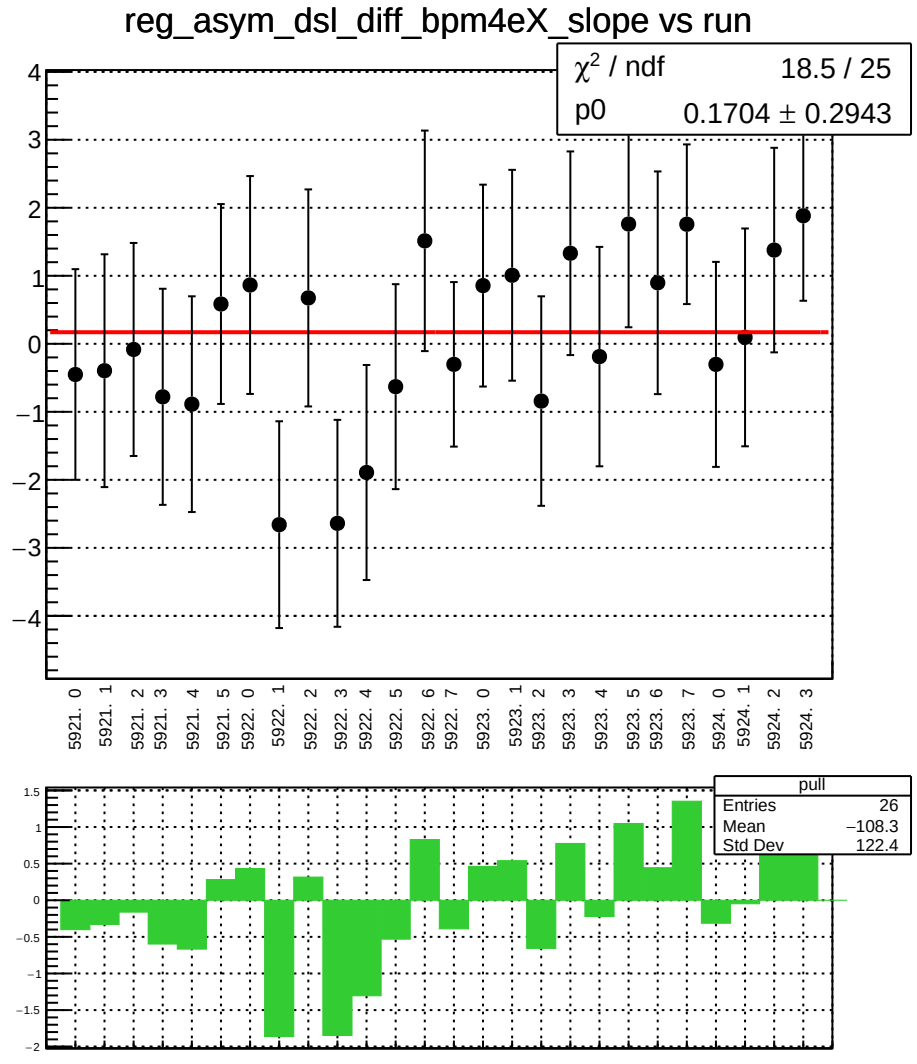

pull1D
Entries 26
Mean −0.02115
Std Dev 0.7609
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

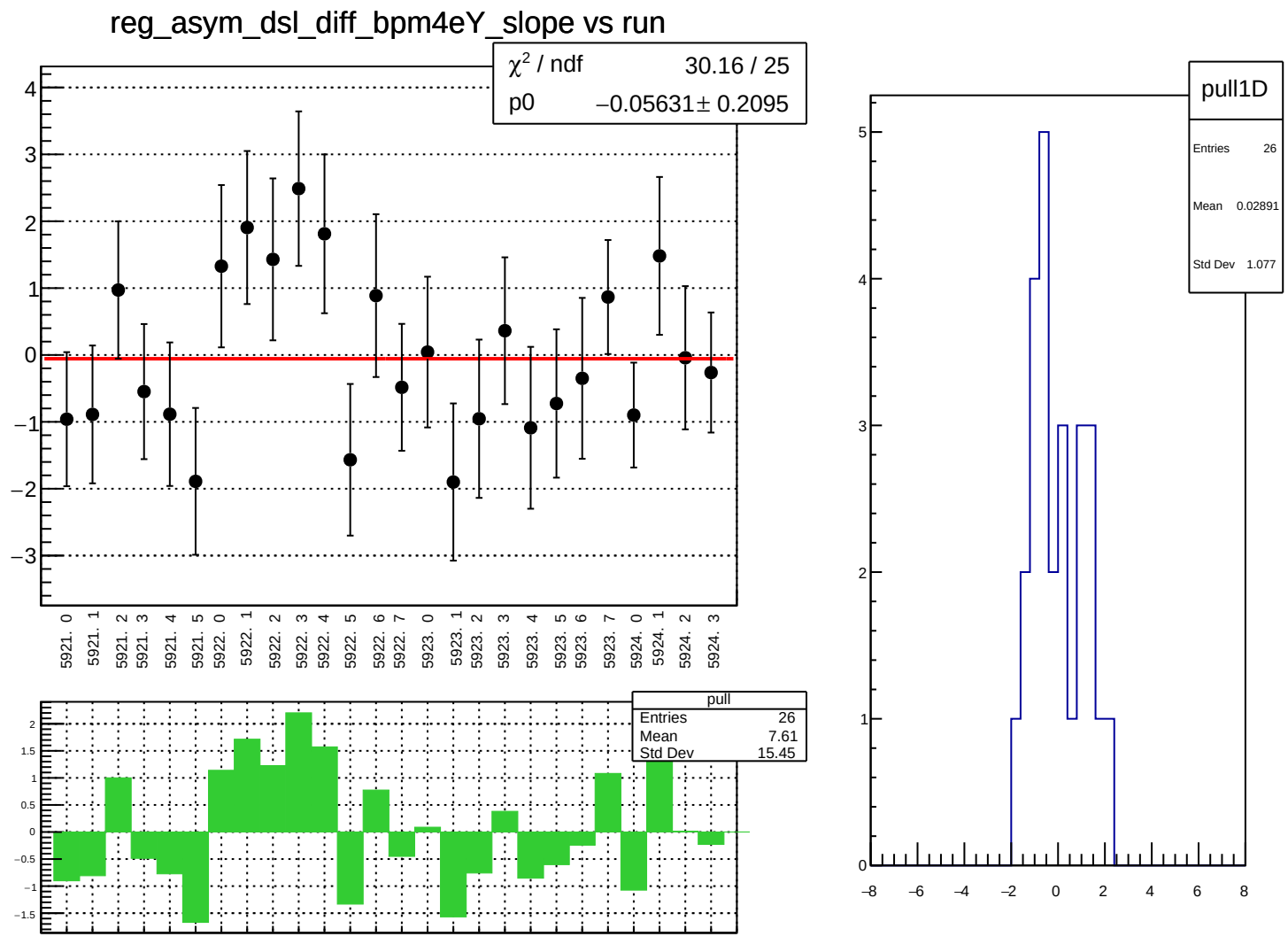

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 34.41 / 25
p0 −34.43 ± 0.2567
−30
−32
−34
−36
−38
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 97
Std Dev 77.52
pull1D
Entries 26
Mean −0.01594
Std Dev 1.15

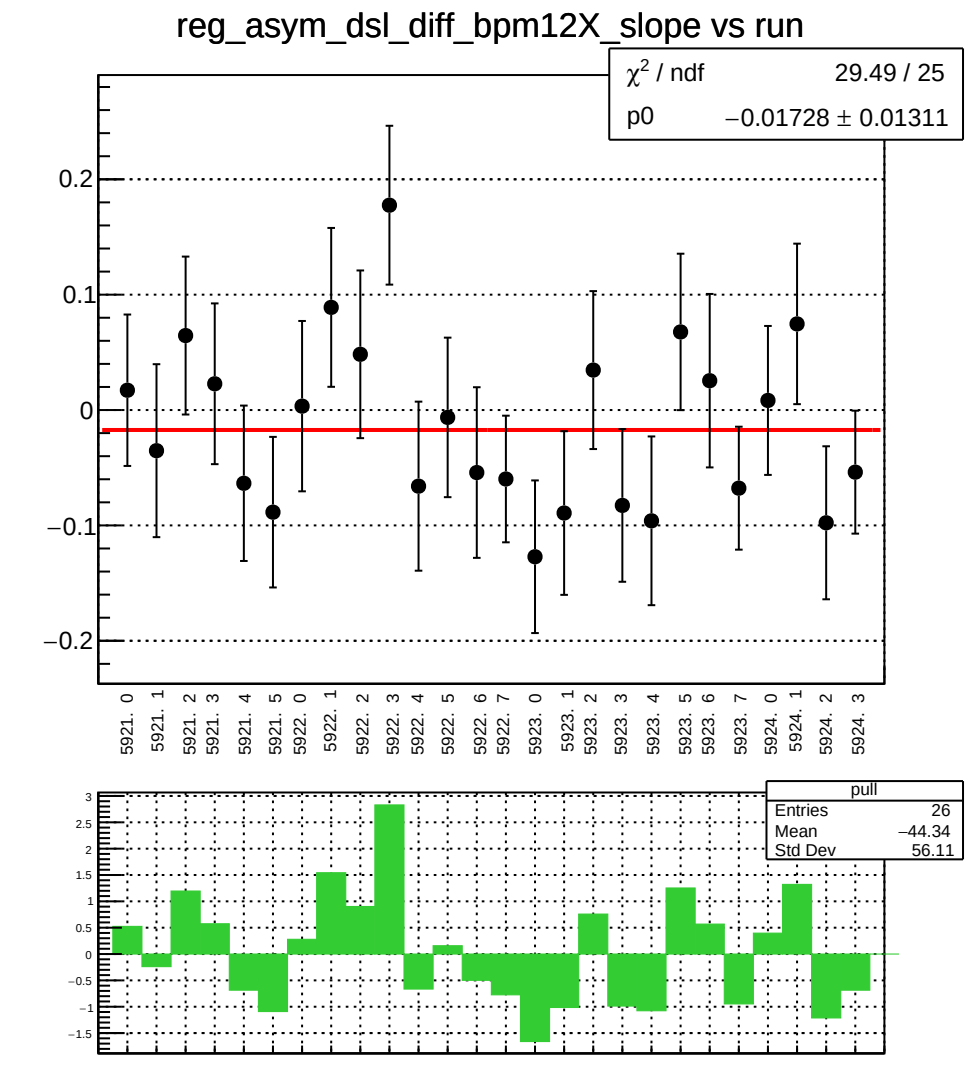

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 17.43 / 25
p0 −0.1281± 0.2338
3
2
1
0
−1
−2
−3
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −113
Std Dev 127
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.02469
Std Dev 0.8185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

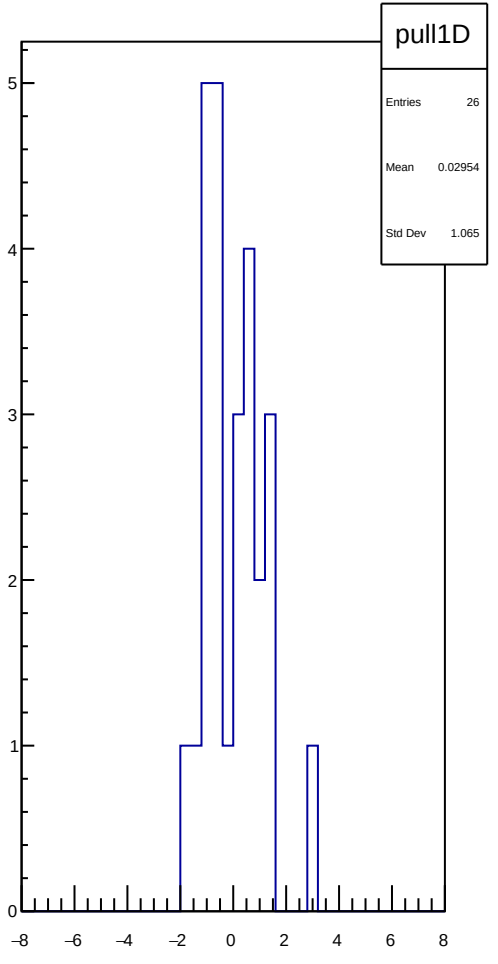

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 28.29 / 25
p0 0.04526 ± 0.1907
3
2
1
0
−1
−2
−3
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 12.19
Std Dev 15.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

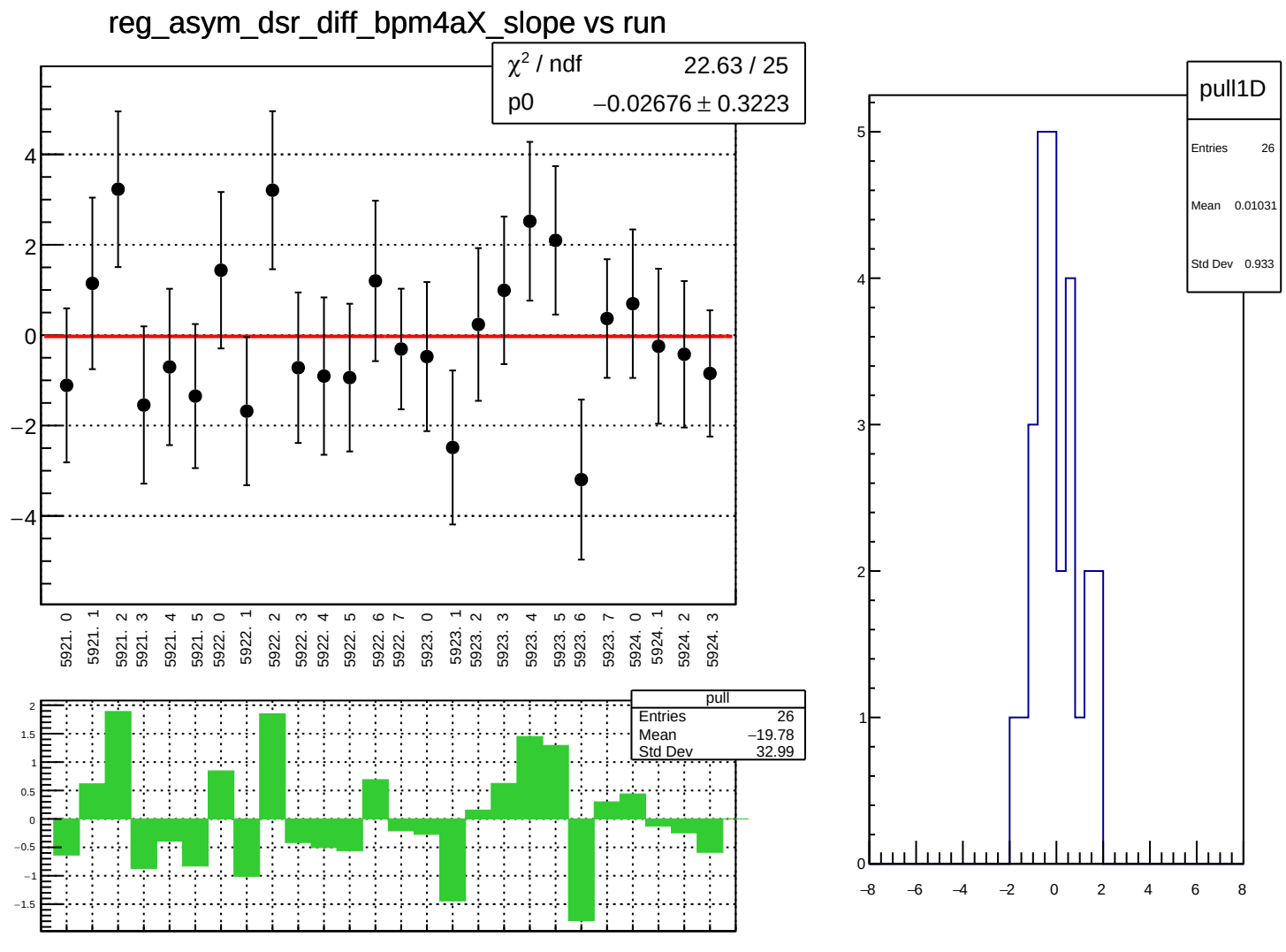

pull1D
Entries 26
Mean −0.02829
Std Dev 1.043
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

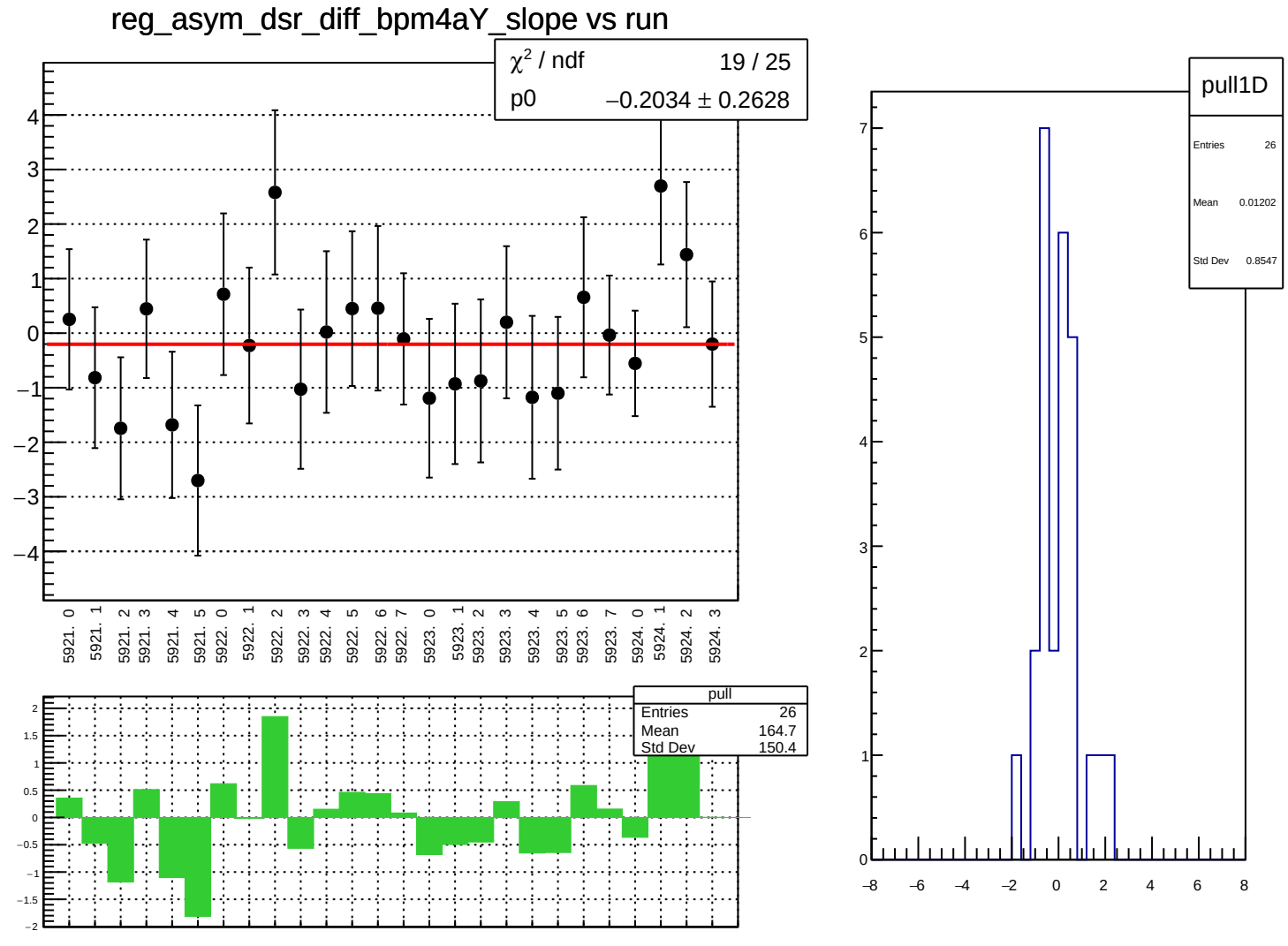

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 18.5 / 25
p0 0.1704 ± 0.2943
pull
Entries 26
Mean −108.3
Std Dev 122.4
pull1D
Entries 26
Mean −0.02607
Std Dev 0.8431

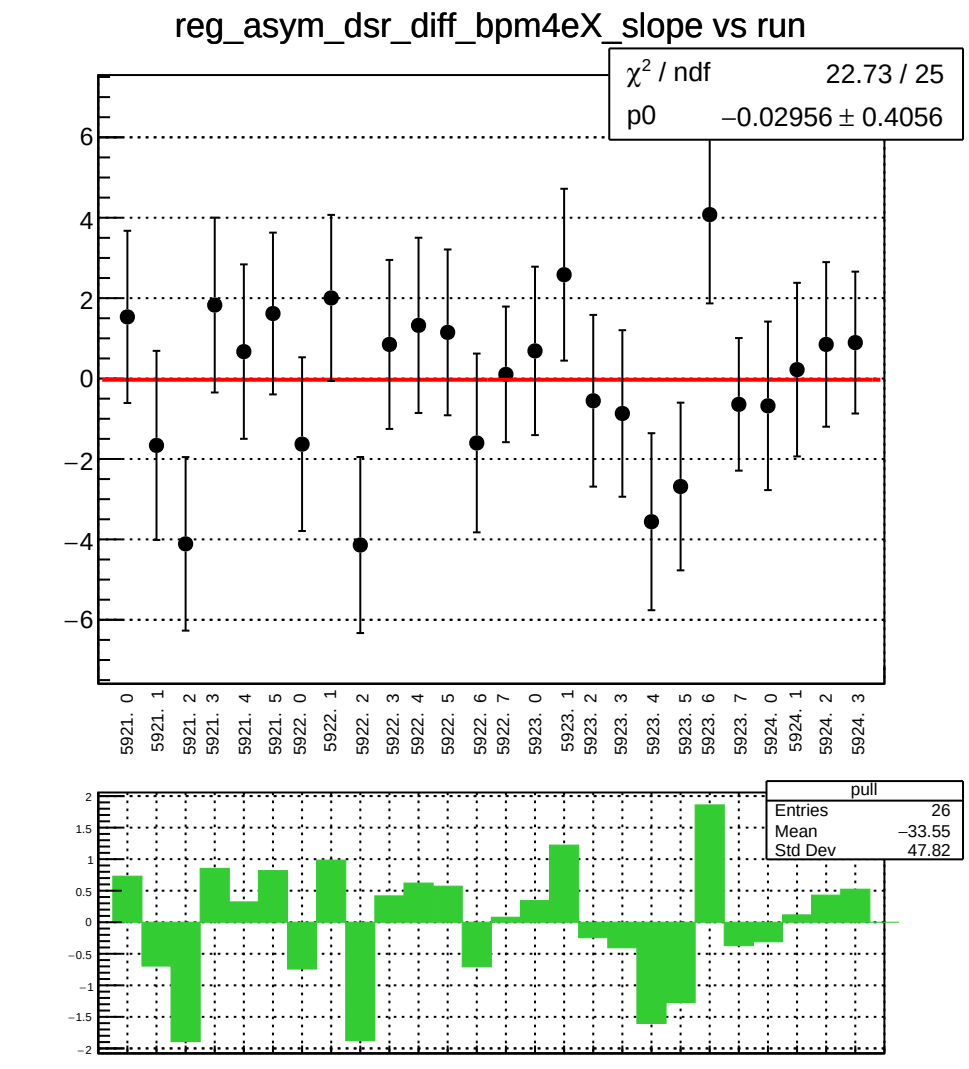

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 30.16 / 25
p0 −0.05631 ± 0.2095
pull
Entries 26
Mean 7.61
Std Dev 15.45
pull1D
Entries 26
Mean 0.02891
Std Dev 1.077

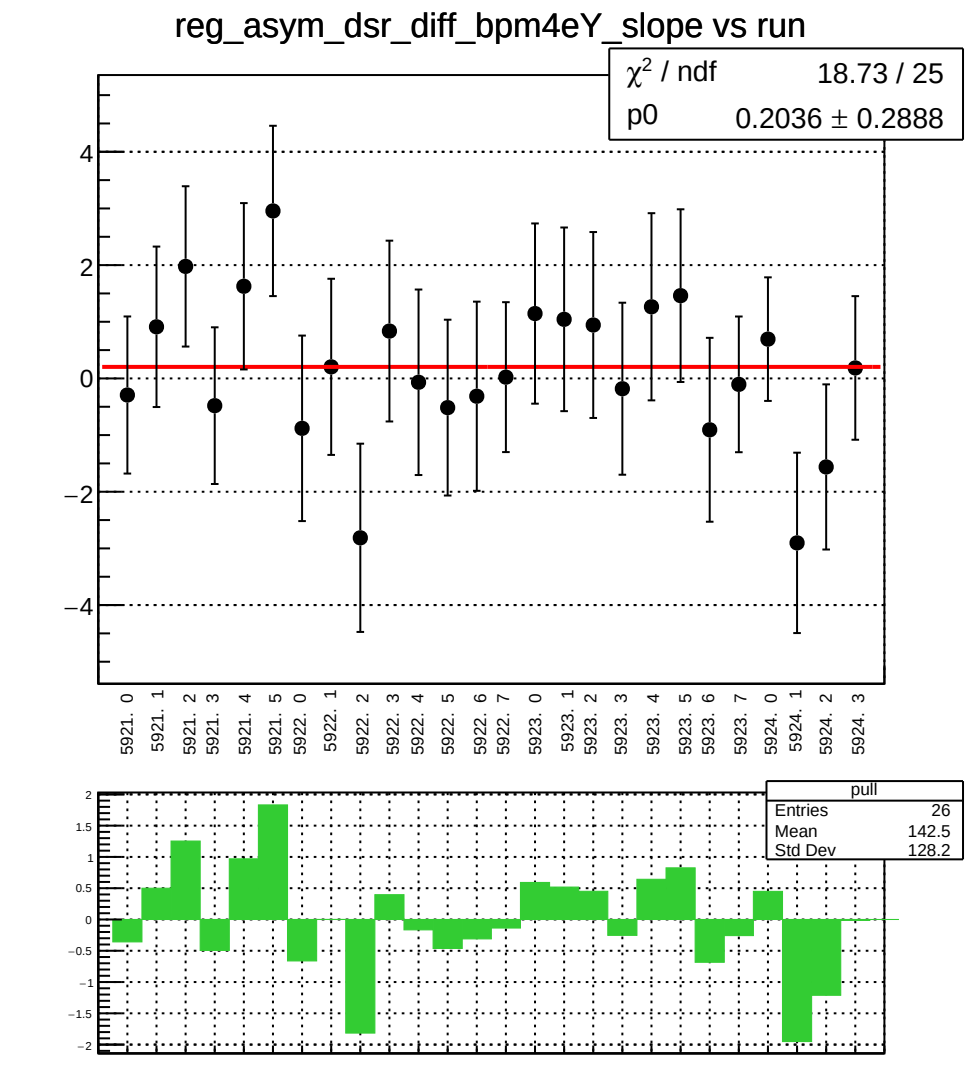

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 29.49 / 25
p0 −0.01728 ± 0.01311
0.2
0.1
0
−0.1
−0.2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −44.34
Std Dev 56.11
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

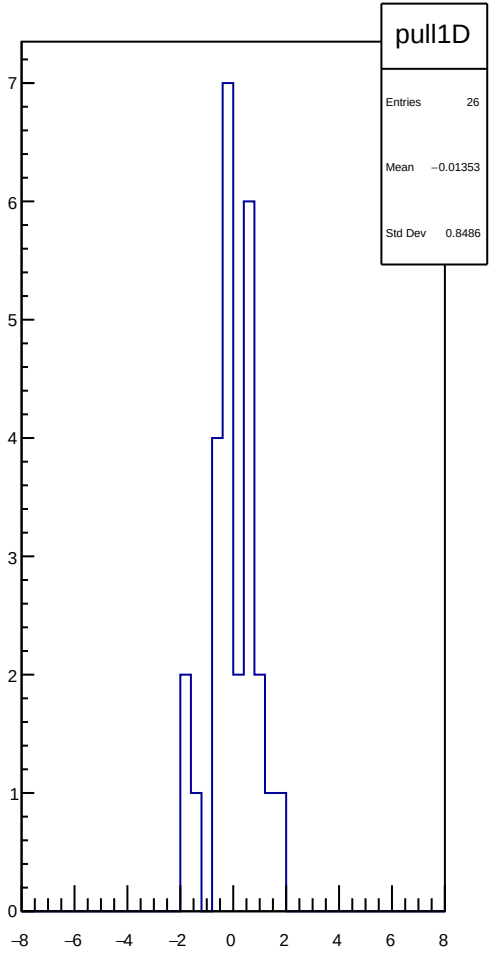

pull1D
Entries 26
Mean 0.02954
Std Dev 1.065
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

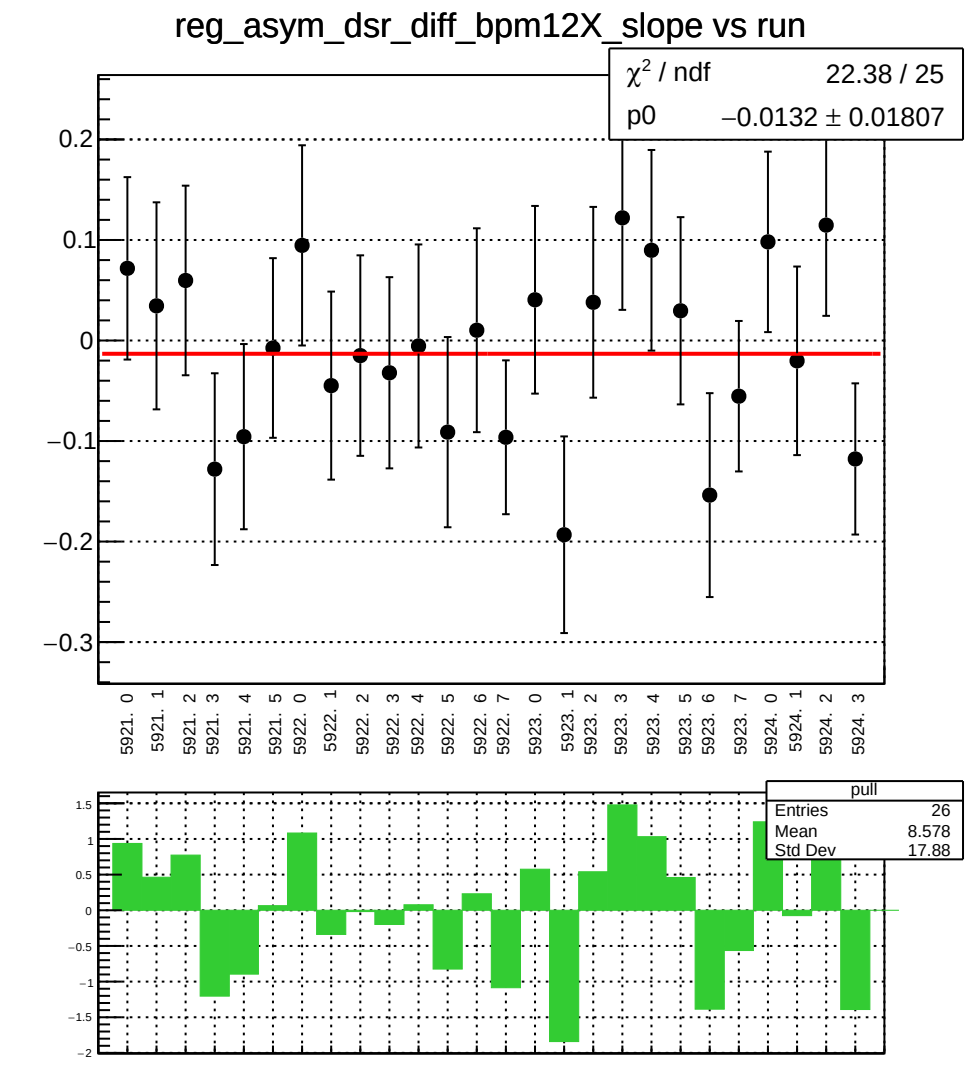

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 22.63 / 25
p0 −0.02676 ± 0.3223
4
2
0
−2
−4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −19.78
Std Dev 32.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01031
Std Dev 0.933
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

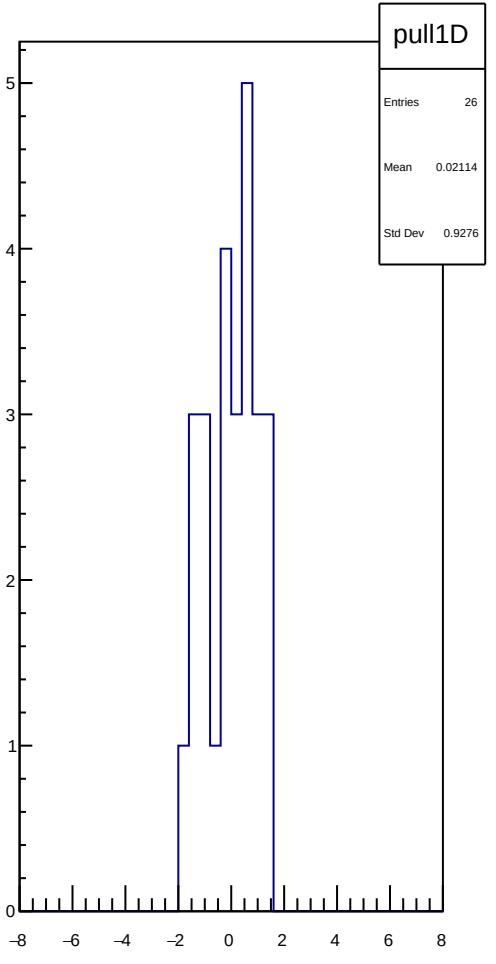

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 19 / 25
p0 −0.2034 ± 0.2628
pull
Entries 26
Mean 164.7
Std Dev 150.4
pull1D
Entries 26
Mean 0.01202
Std Dev 0.8547

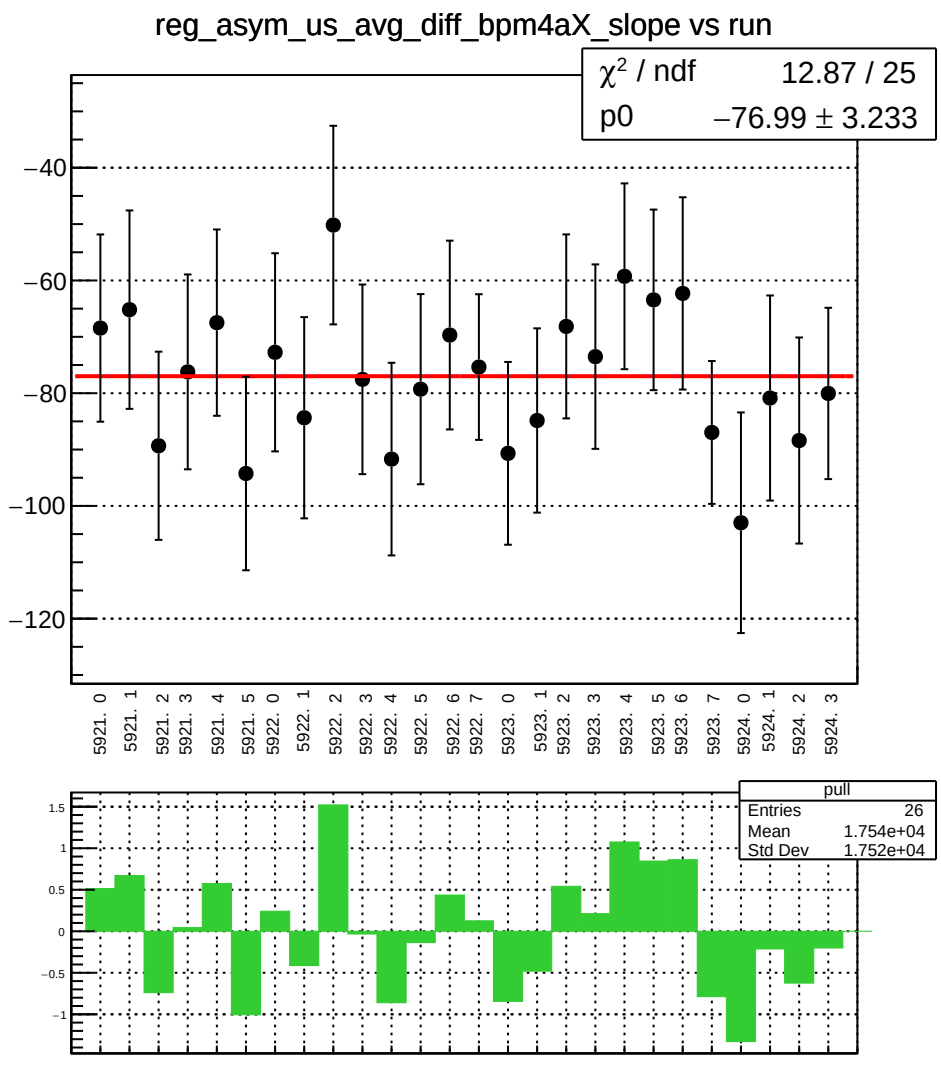

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 22.73 / 25
p0 −0.02956 ± 0.4056
6
4
2
0
−2
−4
−6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −33.55
Std Dev 47.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.008633
Std Dev 0.935
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

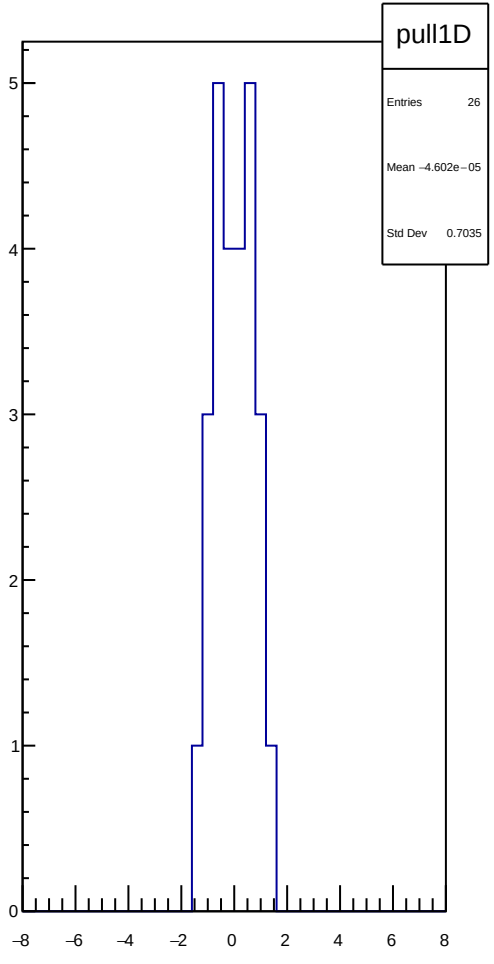

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 18.73 / 25
p0 0.2036 ± 0.2888
4
2
0
−2
−4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 142.5
Std Dev 128.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

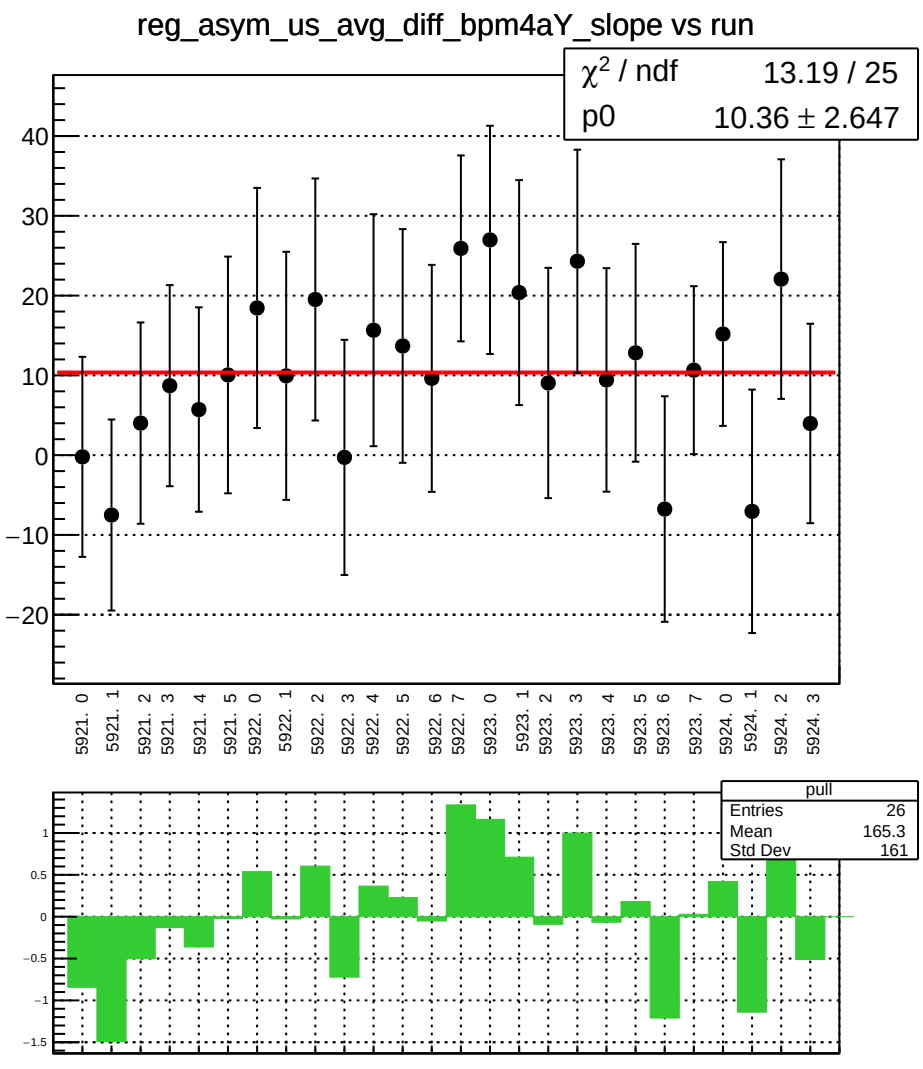

pull1D
Entries 26
Mean −0.01353
Std Dev 0.8486
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

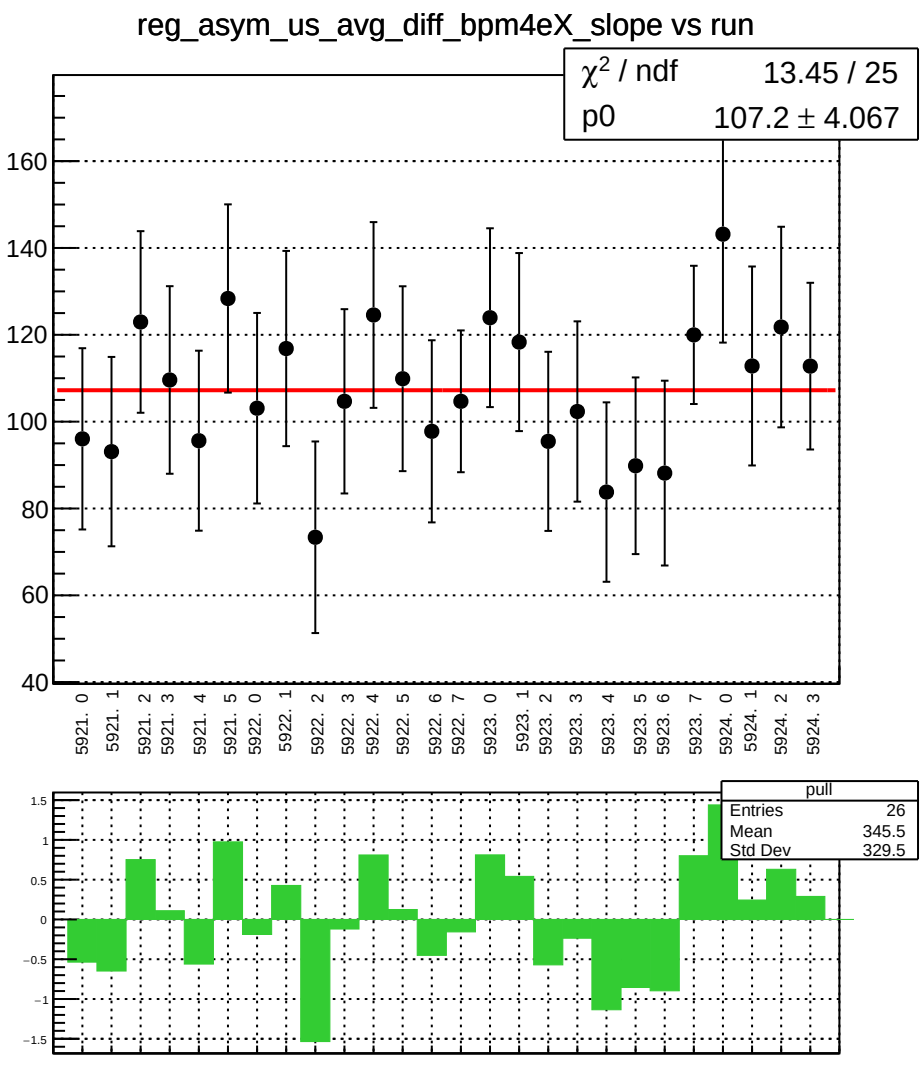

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 22.38 / 25
p0 −0.0132 ± 0.01807
0.2
0.1
0
−0.1
−0.2
−0.3
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.578
Std Dev 17.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2

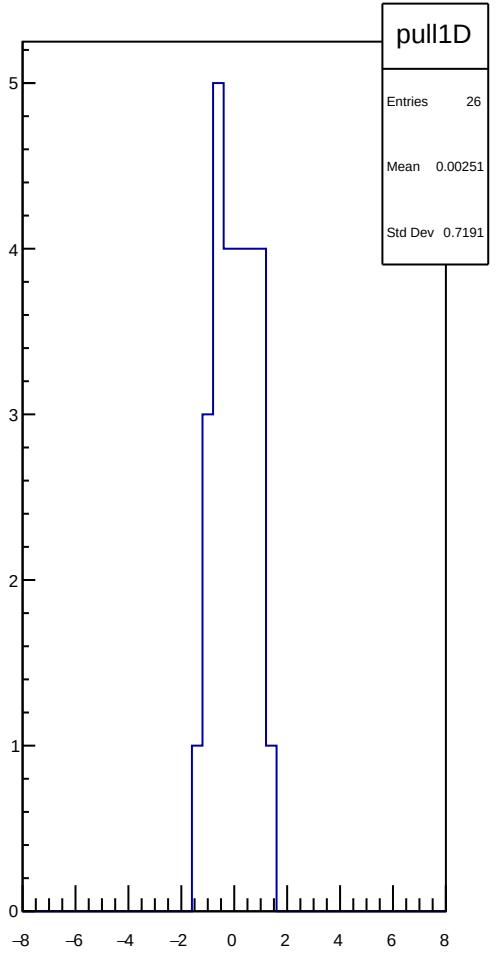

pull1D
Entries 26
Mean 0.02114
Std Dev 0.9276
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

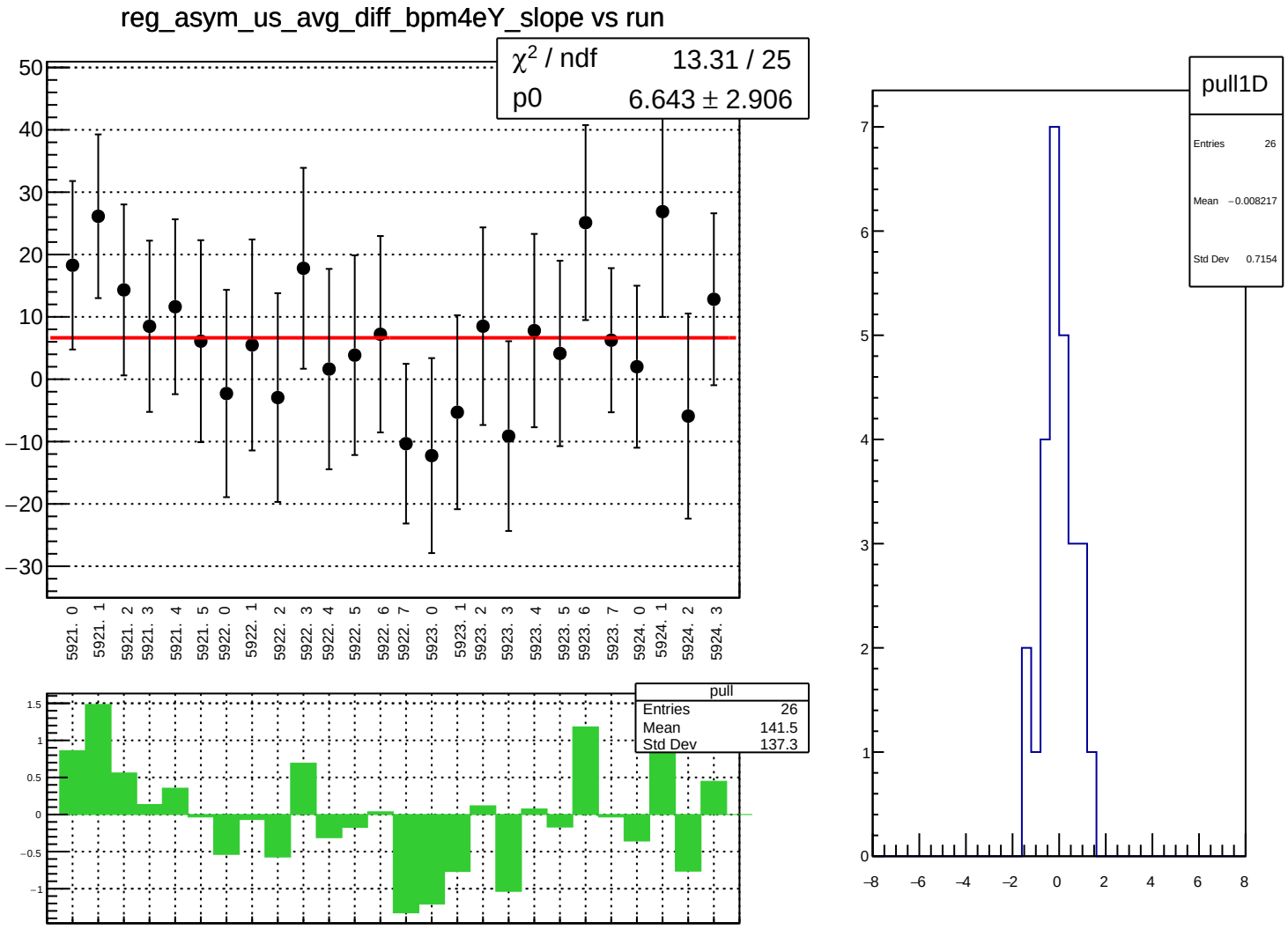

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.87 / 25
p0 −76.99 ± 3.233
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1.754e+04
Std Dev 1.752e+04
1.5
1
0.5
0
−0.5
−1

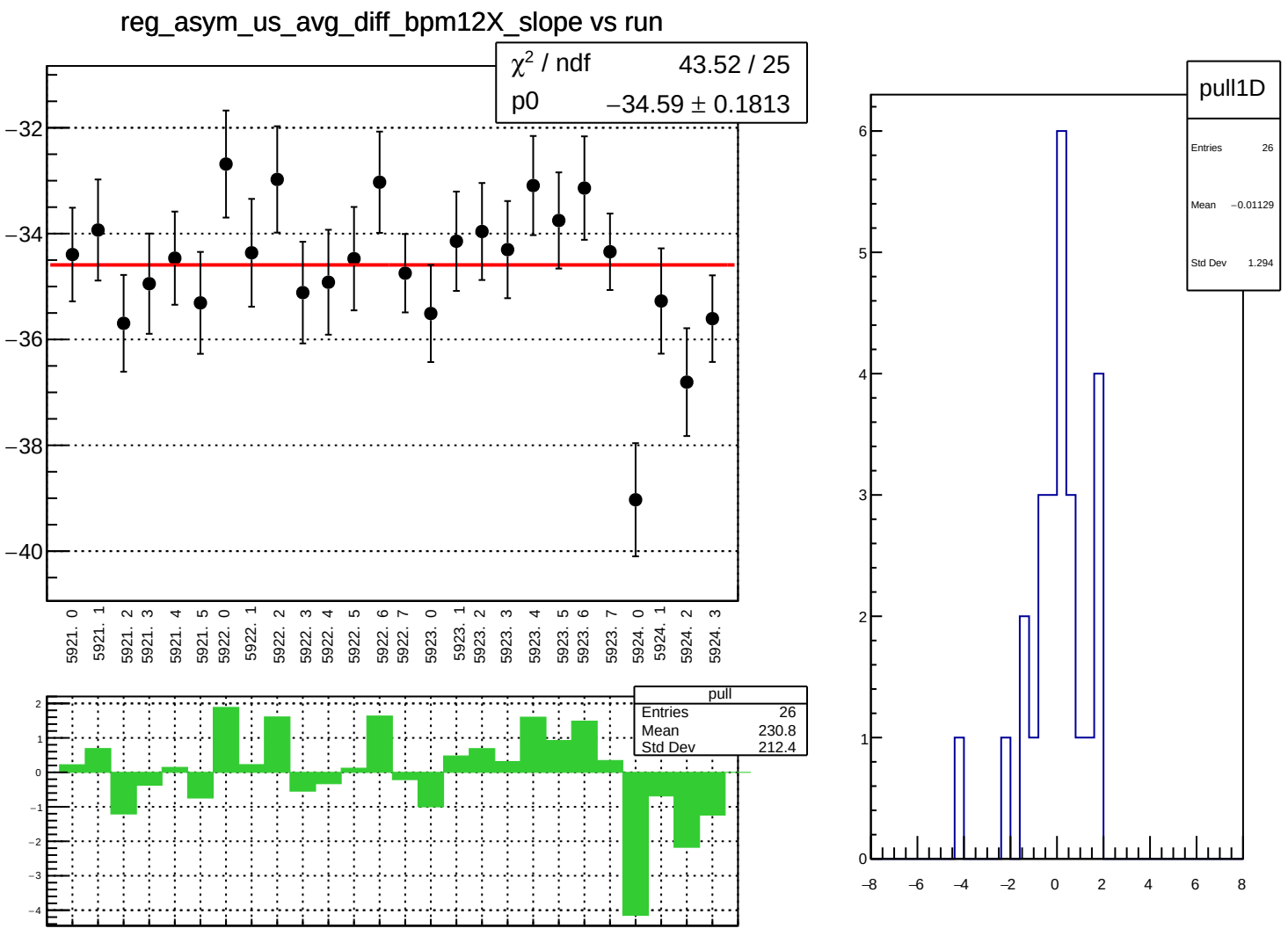

pull1D
Entries 26
Mean −4.602e−05
Std Dev 0.7035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

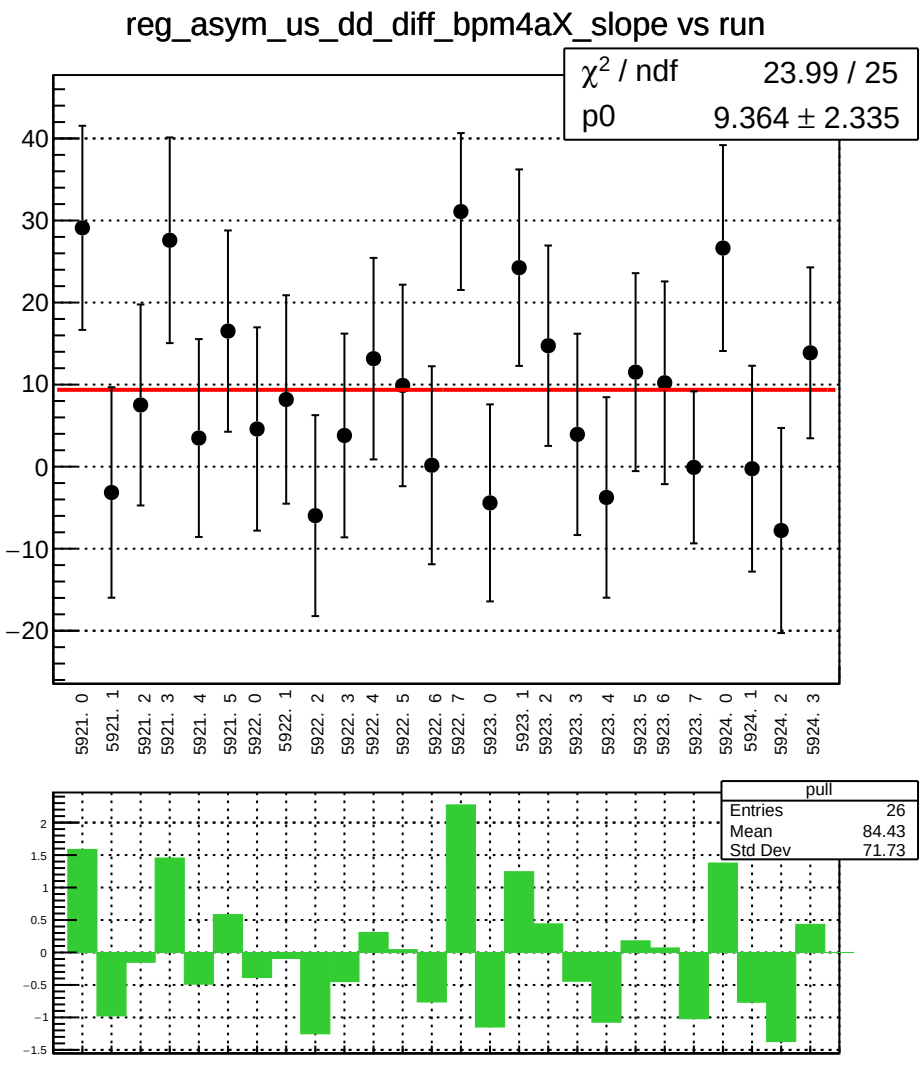

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.19 / 25
p0 10.36 ± 2.647
40
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 165.3
Std Dev 161
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.006974
Std Dev 0.7123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

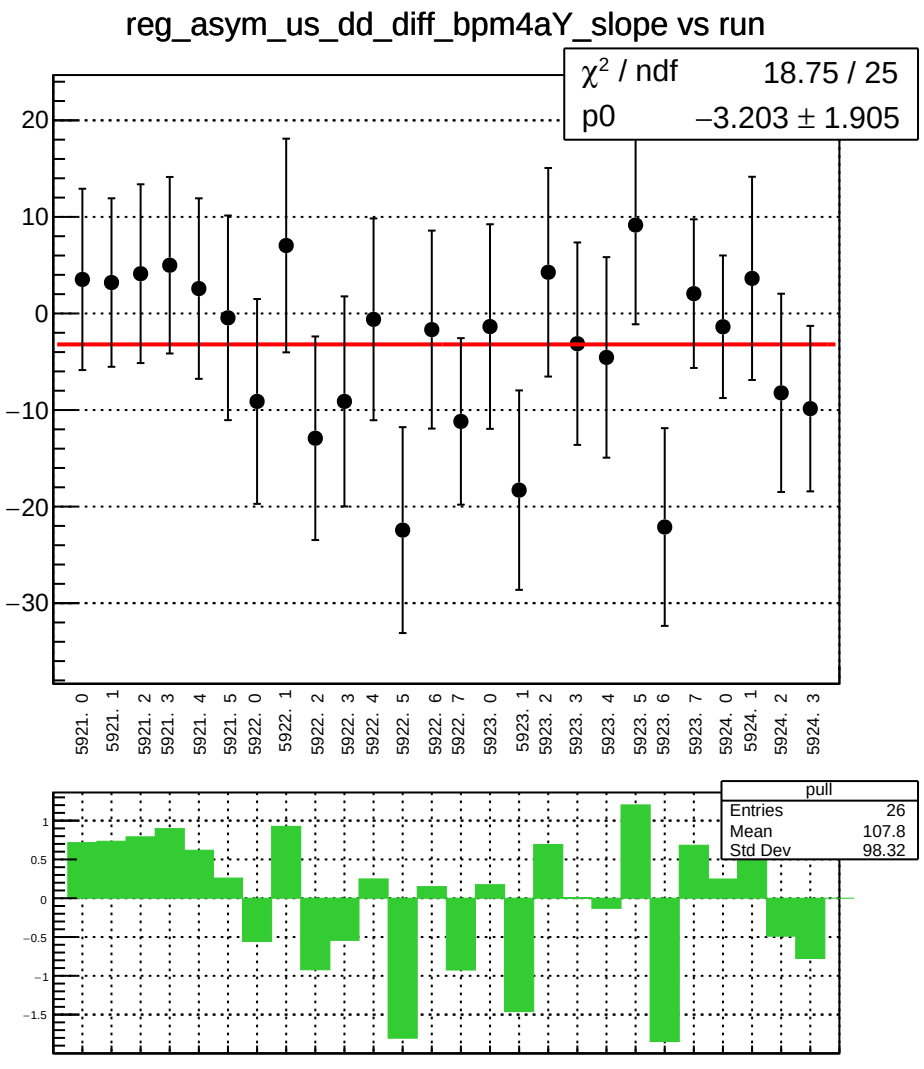

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.45 / 25
p0 107.2 ± 4.067
160
140
120
100
80
60
40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 345.5
Std Dev 329.5
1.5
1
0.5
0
−0.5
−1
−1.5

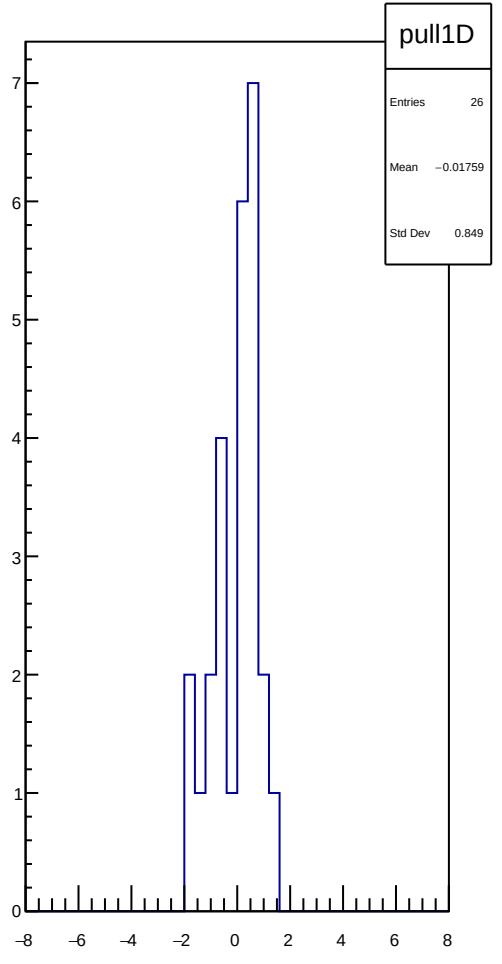

pull1D
Entries 26
Mean 0.00251
Std Dev 0.7191
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

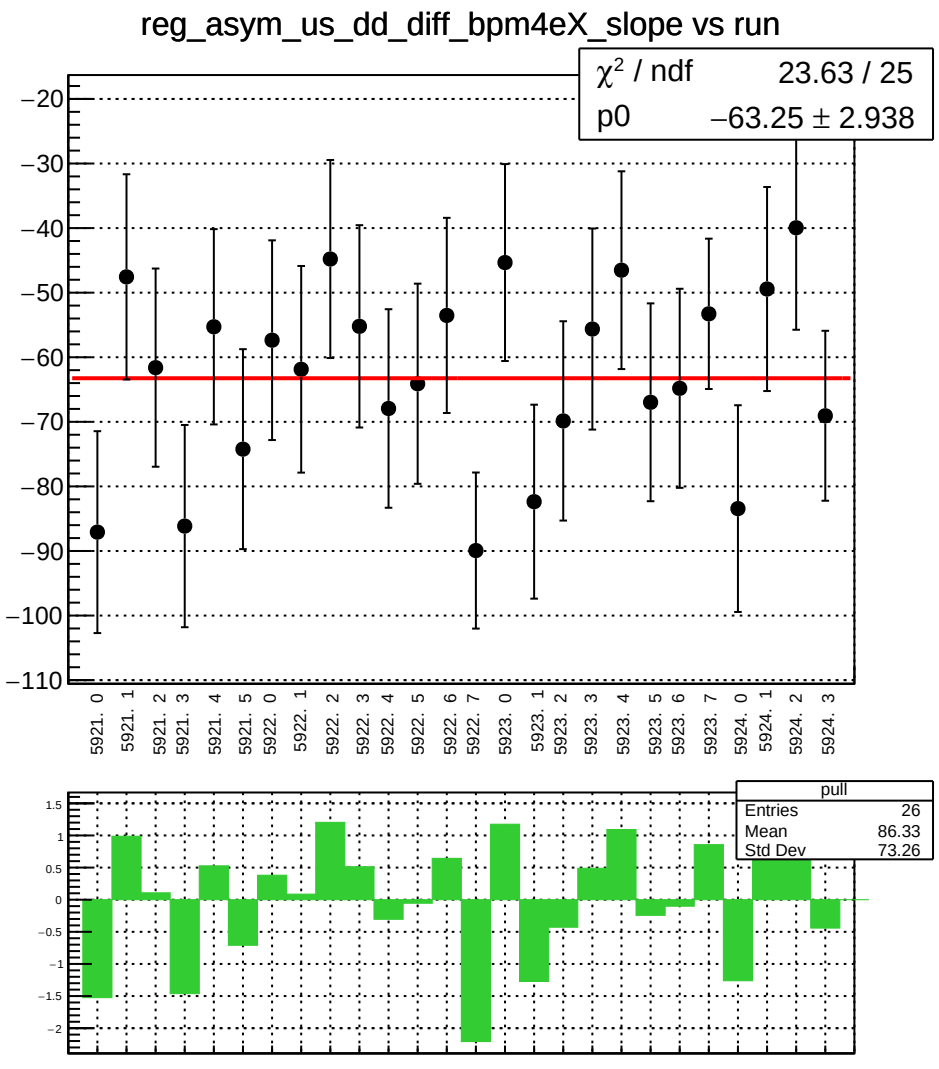

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.31 / 25
p0 6.643 ± 2.906
50
40
30
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 141.5
Std Dev 137.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.008217
Std Dev 0.7154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

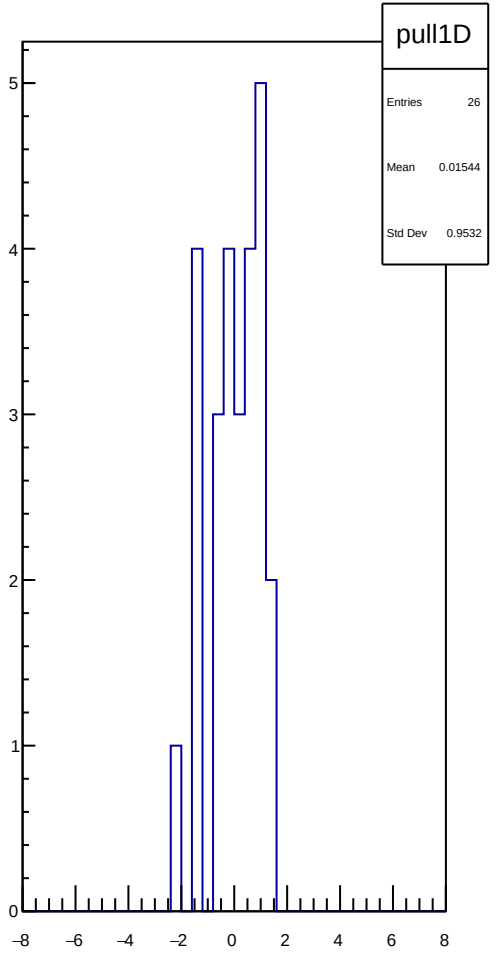

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 43.52 / 25
p0 −34.59 ± 0.1813
−32
−34
−36
−38
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 230.8
Std Dev 212.4
2
1
0
−1
−2
−3
−4
pull1D
Entries 26
Mean −0.01129
Std Dev 1.294
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

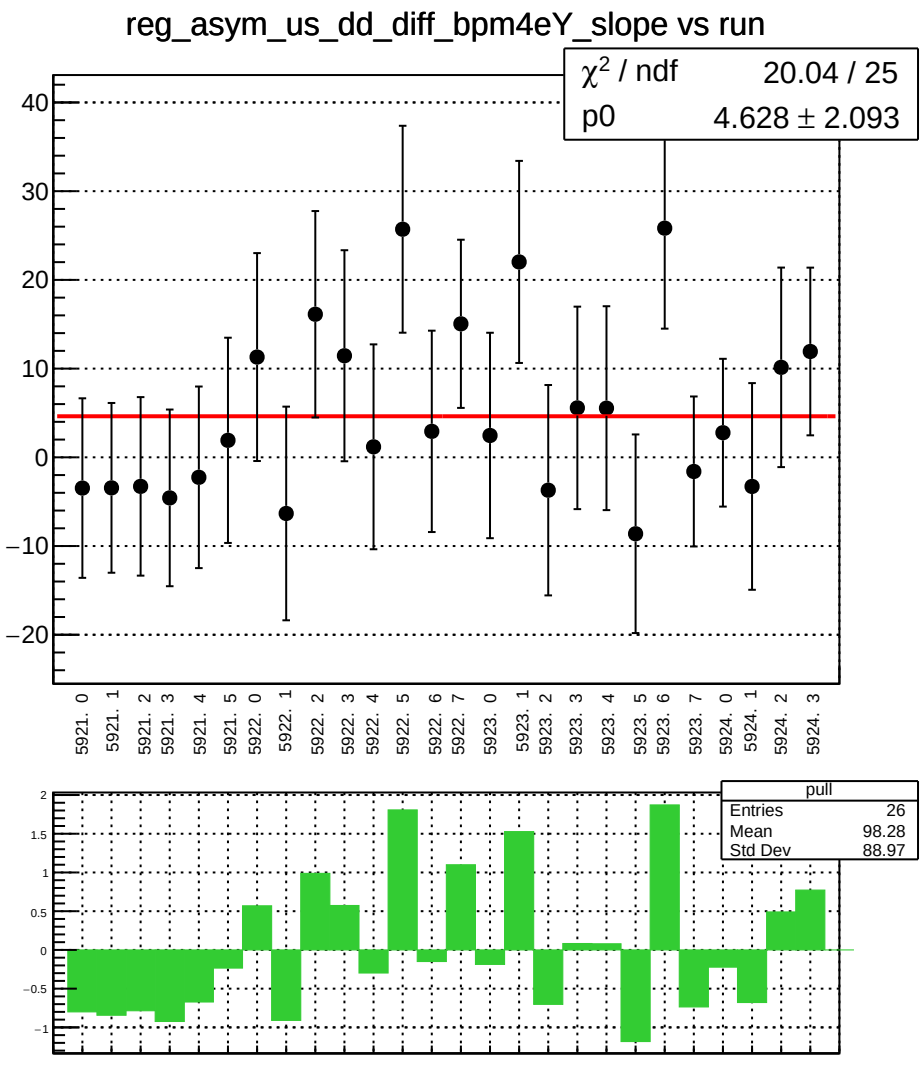

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.99 / 25
p0 9.364 ± 2.335
40
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.43
Std Dev 71.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01479
Std Dev 0.9604
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

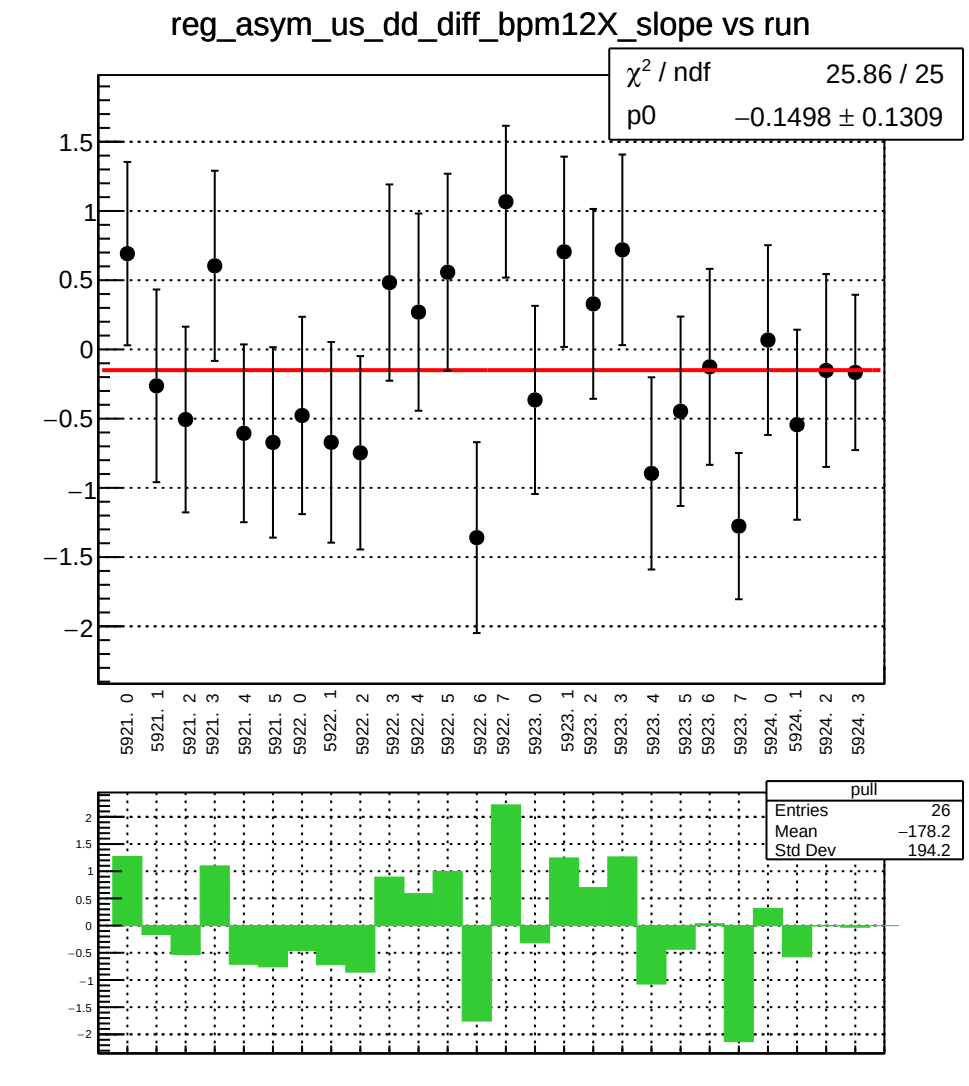

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.75 / 25
p0 −3.203 ± 1.905
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 107.8
Std Dev 98.32
1
0.5
0
−0.5
−1
−1.5

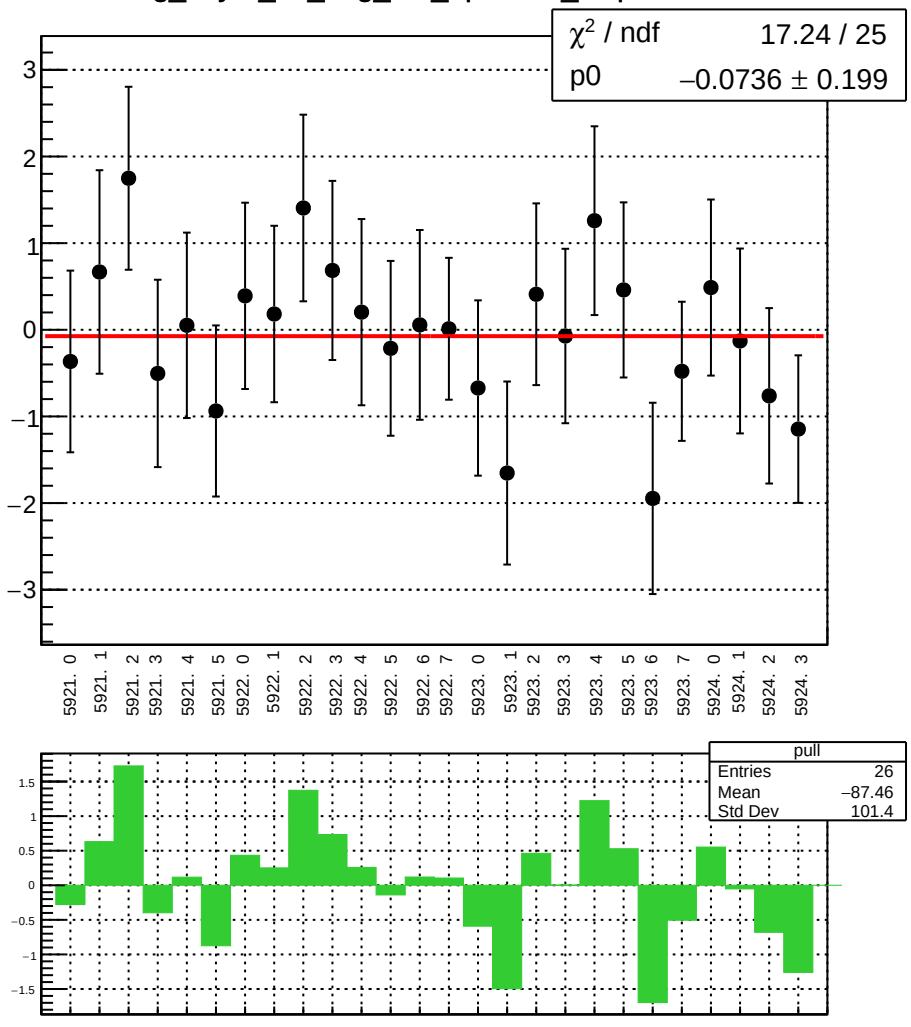

pull1D
Entries 26
Mean −0.01759
Std Dev 0.849
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

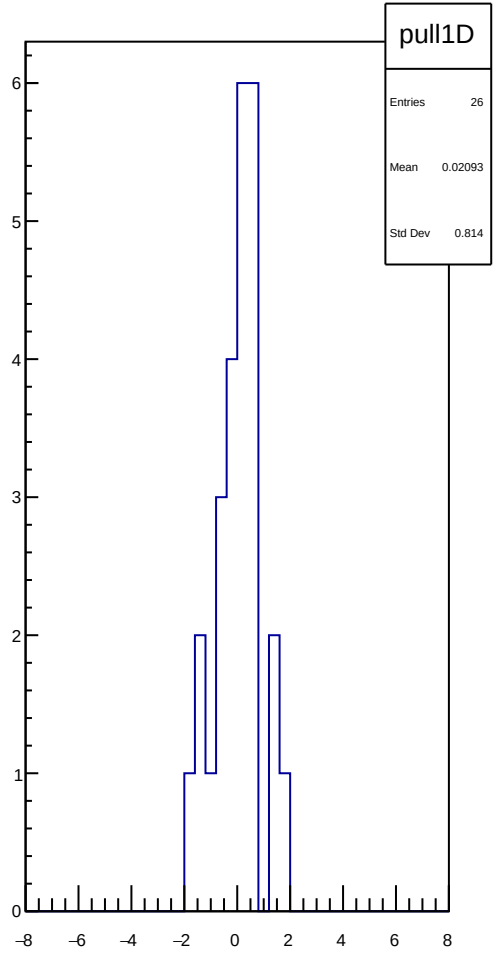

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.63 / 25
p0 −63.25 ± 2.938
−20
−30
−40
−50
−60
−70
−80
−90
−100
−110
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 86.33
Std Dev 73.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2

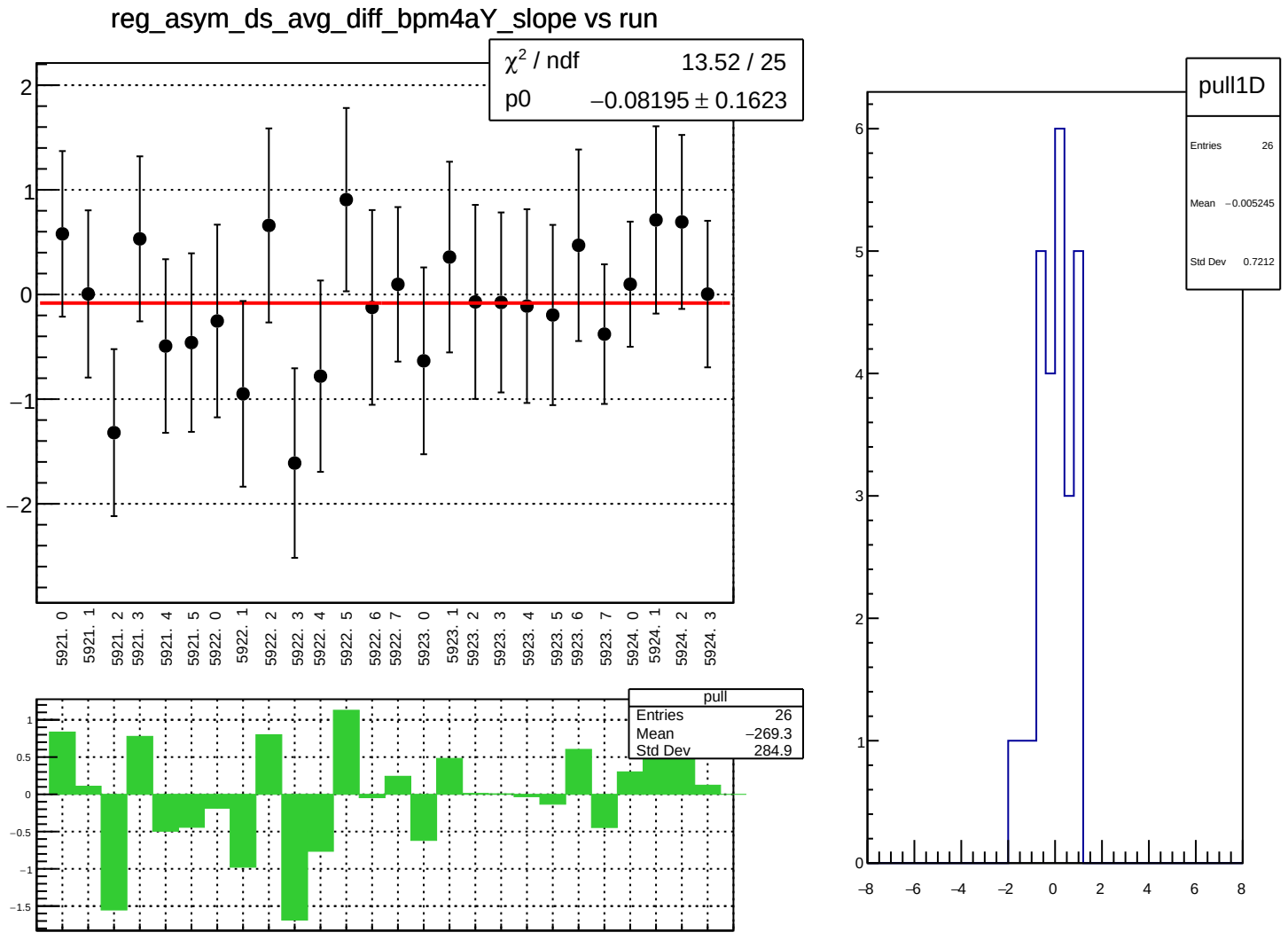

pull1D
Entries 26
Mean 0.01544
Std Dev 0.9532
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

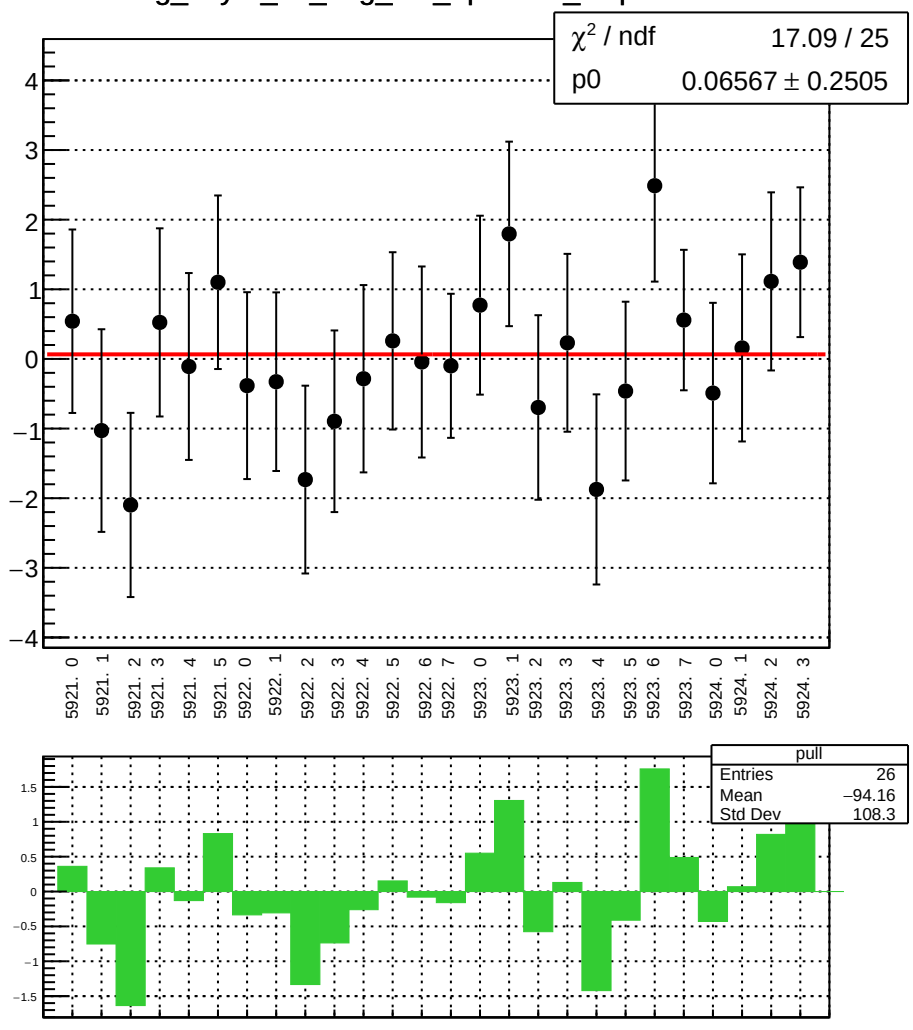

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.04 / 25
p0 4.628 ± 2.093
40
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 98.28
Std Dev 88.97
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.02063
Std Dev 0.8778
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

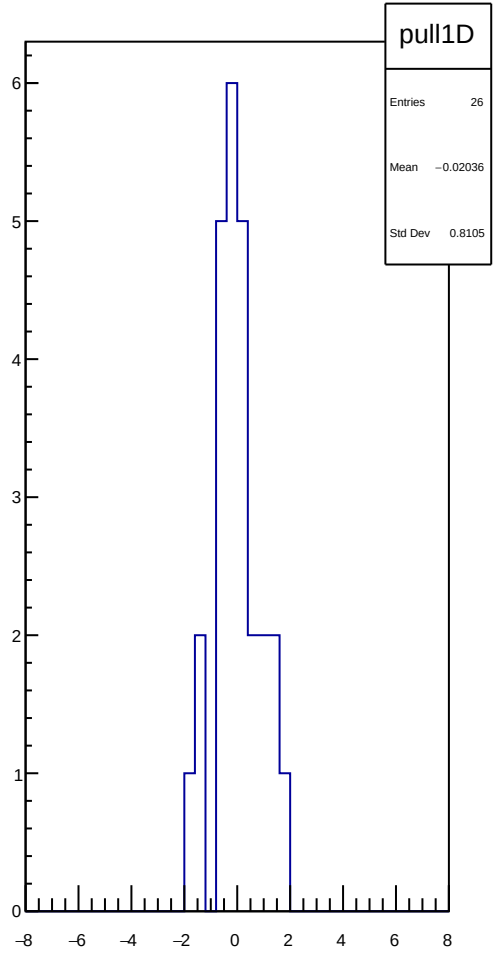

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 25.86 / 25
p0 −0.1498 ± 0.1309
pull
Entries 26
Mean −178.2
Std Dev 194.2
pull1D
Entries 26
Mean 0.003963
Std Dev 0.9973

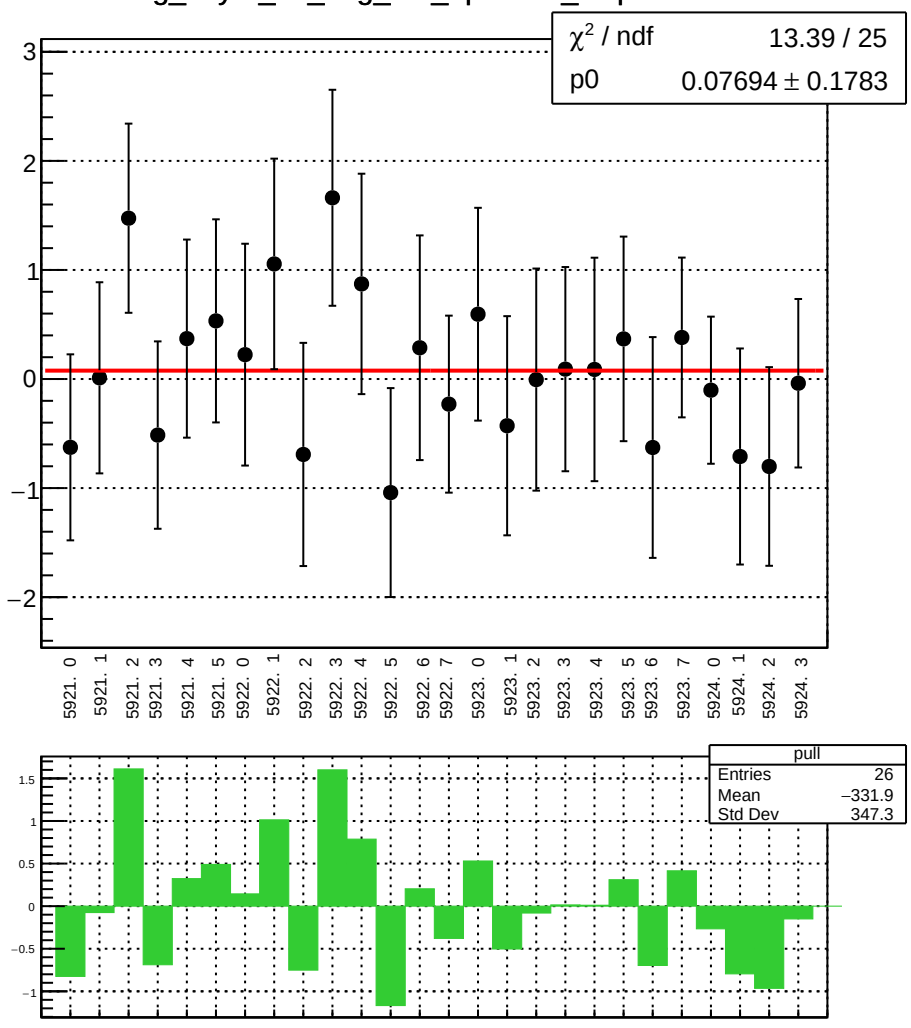

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 17.24 / 25
p0 −0.0736 ± 0.199
pull
Entries 26
Mean −87.46
Std Dev 101.4

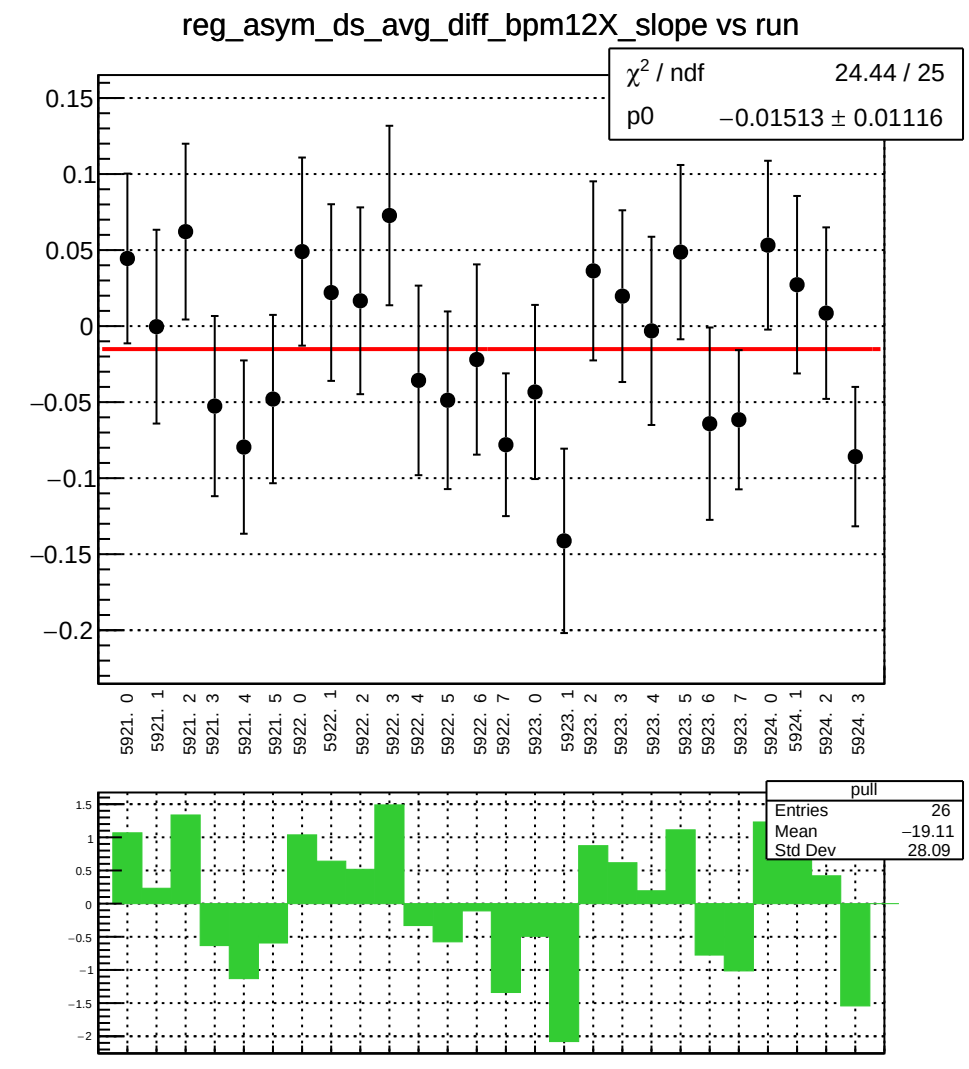

pull1D
Entries 26
Mean 0.02093
Std Dev 0.814

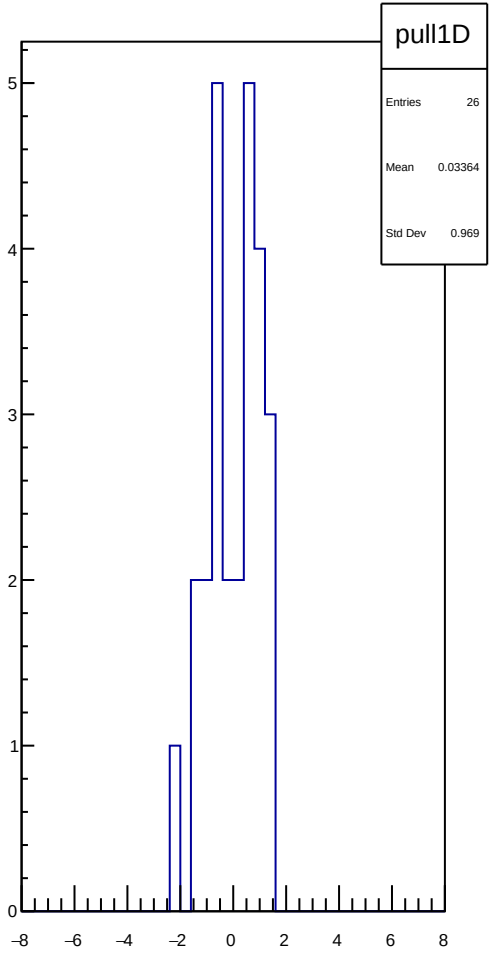

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.52 / 25
p0 −0.08195 ± 0.1623
2
1
0
−1
−2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −269.3
Std Dev 284.9
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.005245
Std Dev 0.7212
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

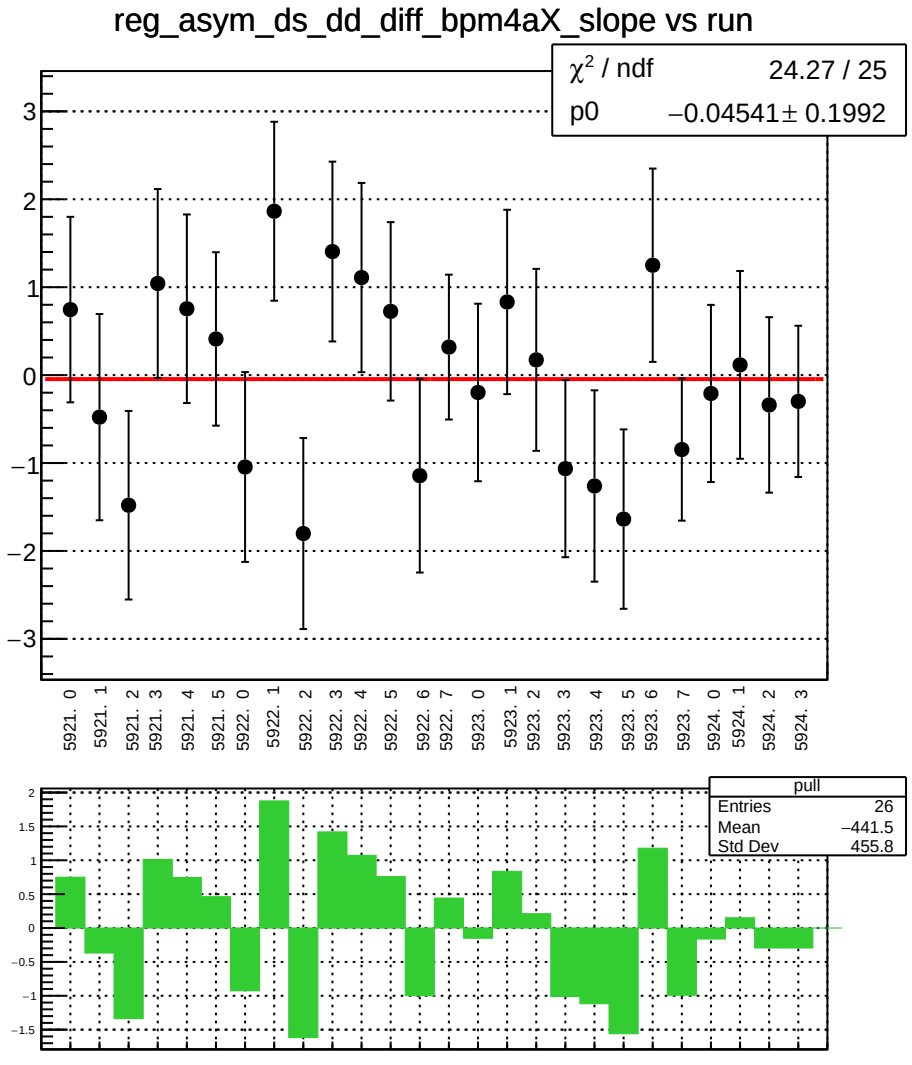

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.09 / 25
p0 0.06567 ± 0.2505
pull
Entries 26
Mean −94.16
Std Dev 108.3

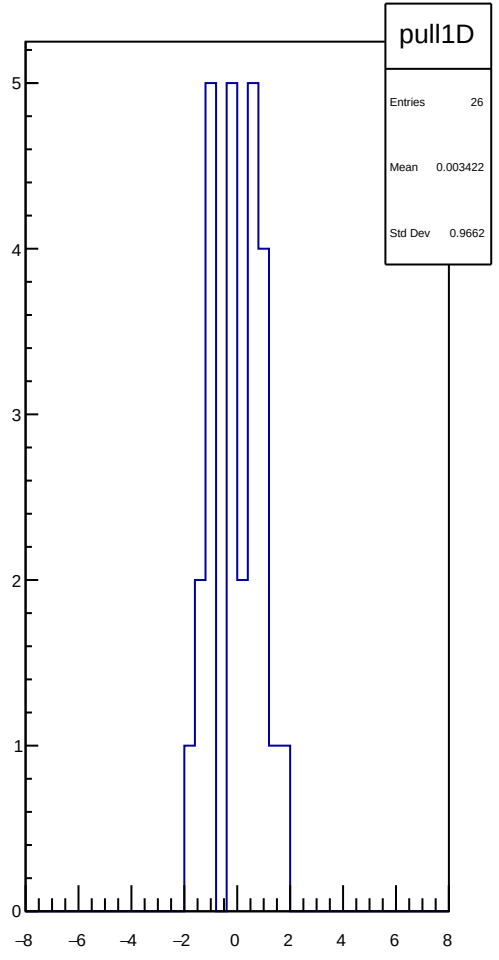

pull1D
Entries 26
Mean −0.02036
Std Dev 0.8105

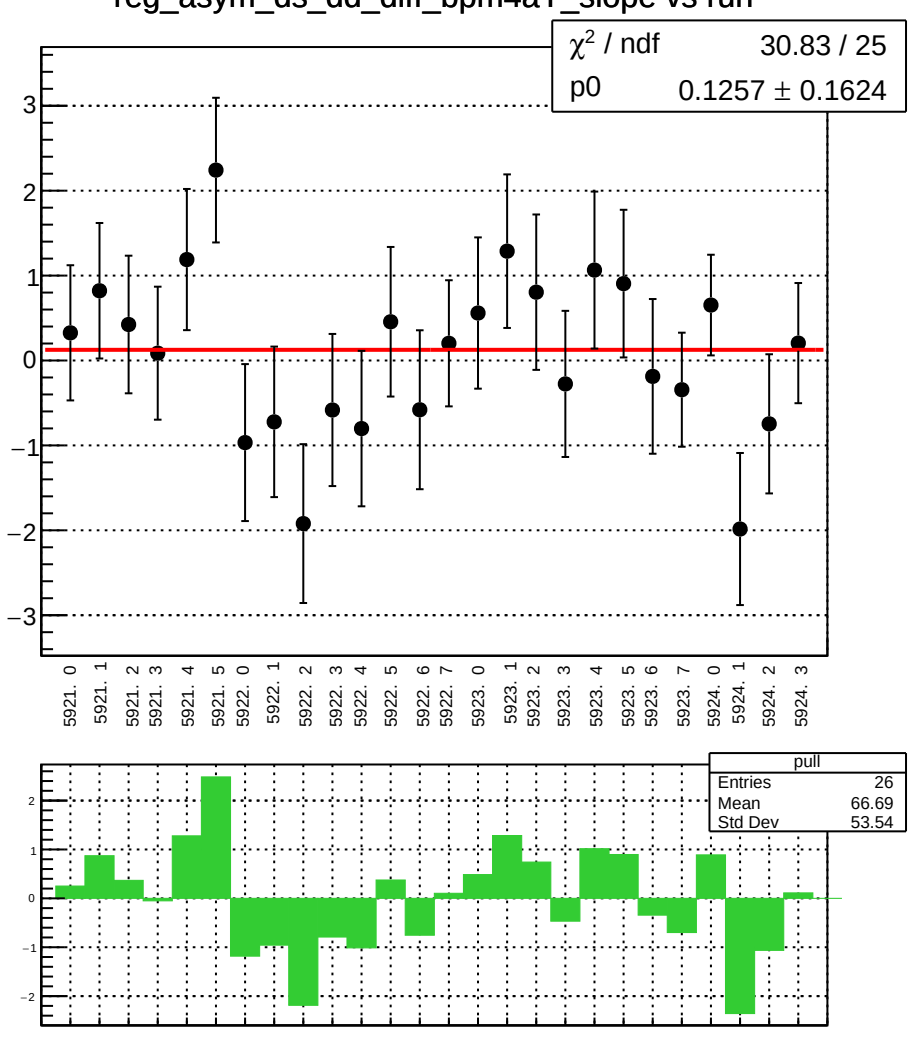

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.39 / 25
p0 0.07694 ± 0.1783
3
2
1
0
−1
−2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −331.9
Std Dev 347.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.004351
Std Dev 0.7176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

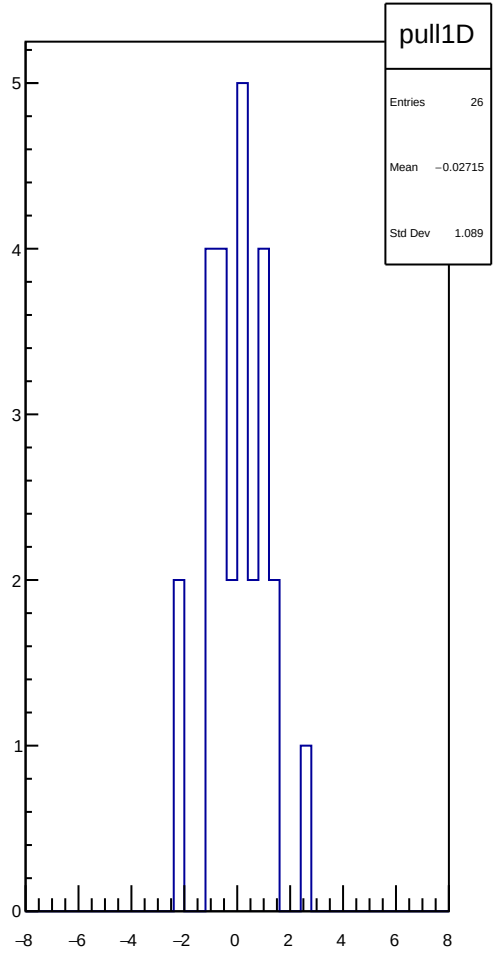

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 24.44 / 25
p0 −0.01513 ± 0.01116
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −19.11
Std Dev 28.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2

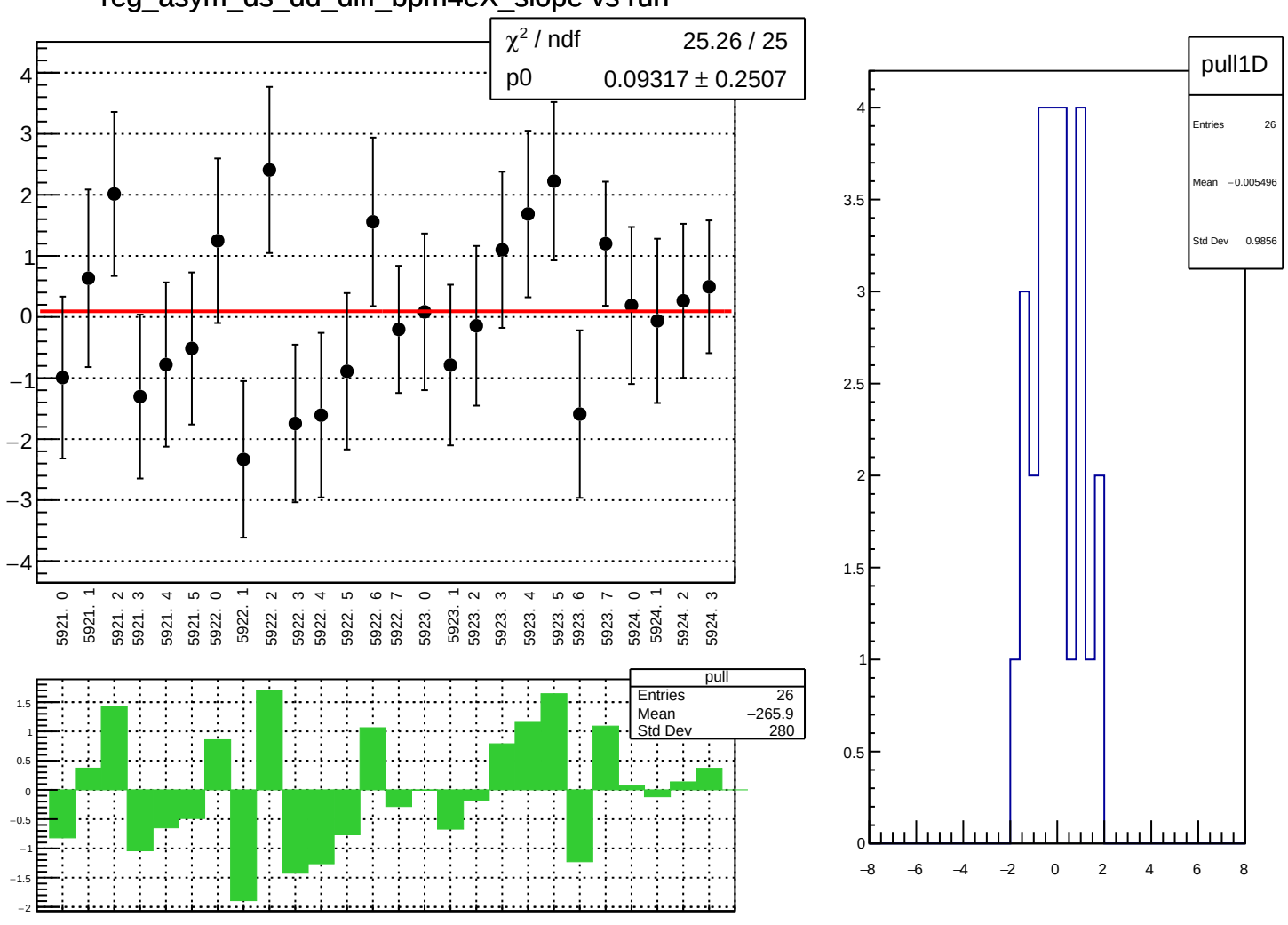

pull1D
Entries 26
Mean 0.03364
Std Dev 0.969
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

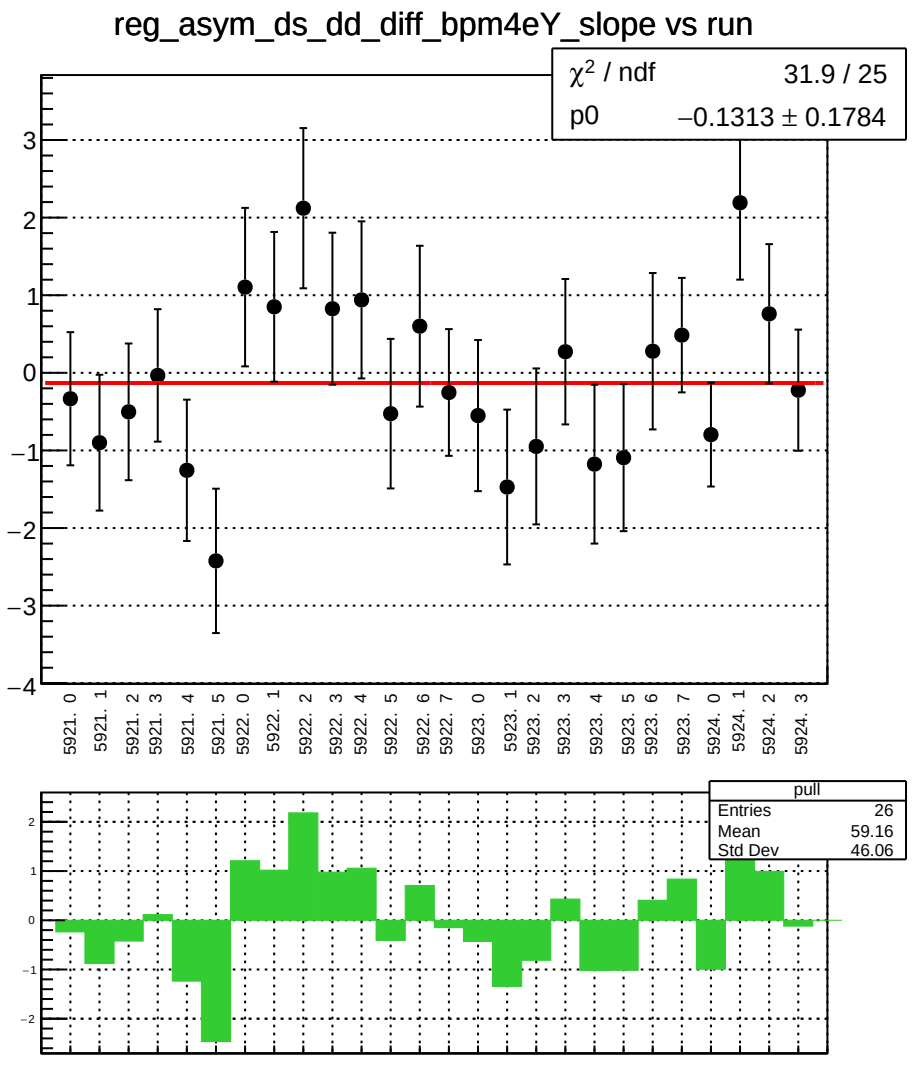

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.27 / 25
p0 −0.04541± 0.1992
pull
Entries 26
Mean −441.5
Std Dev 455.8

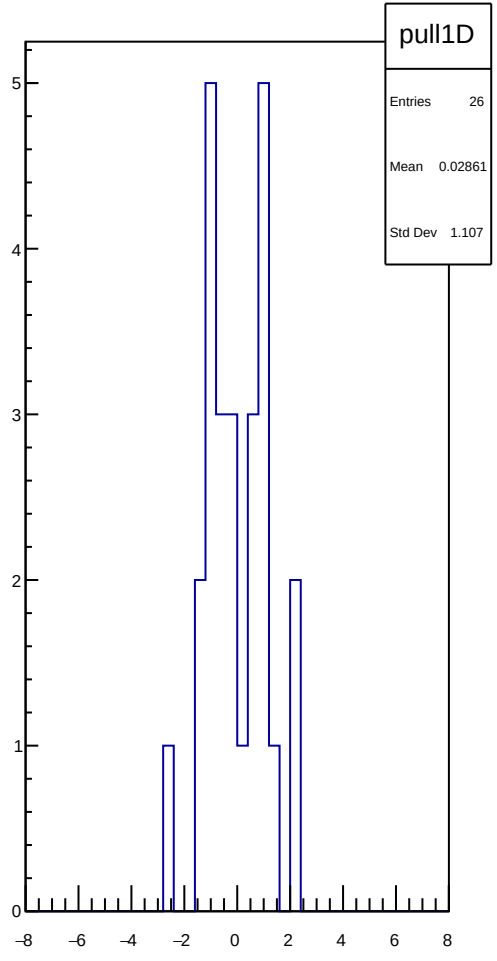

pull1D
Entries 26
Mean 0.003422
Std Dev 0.9662

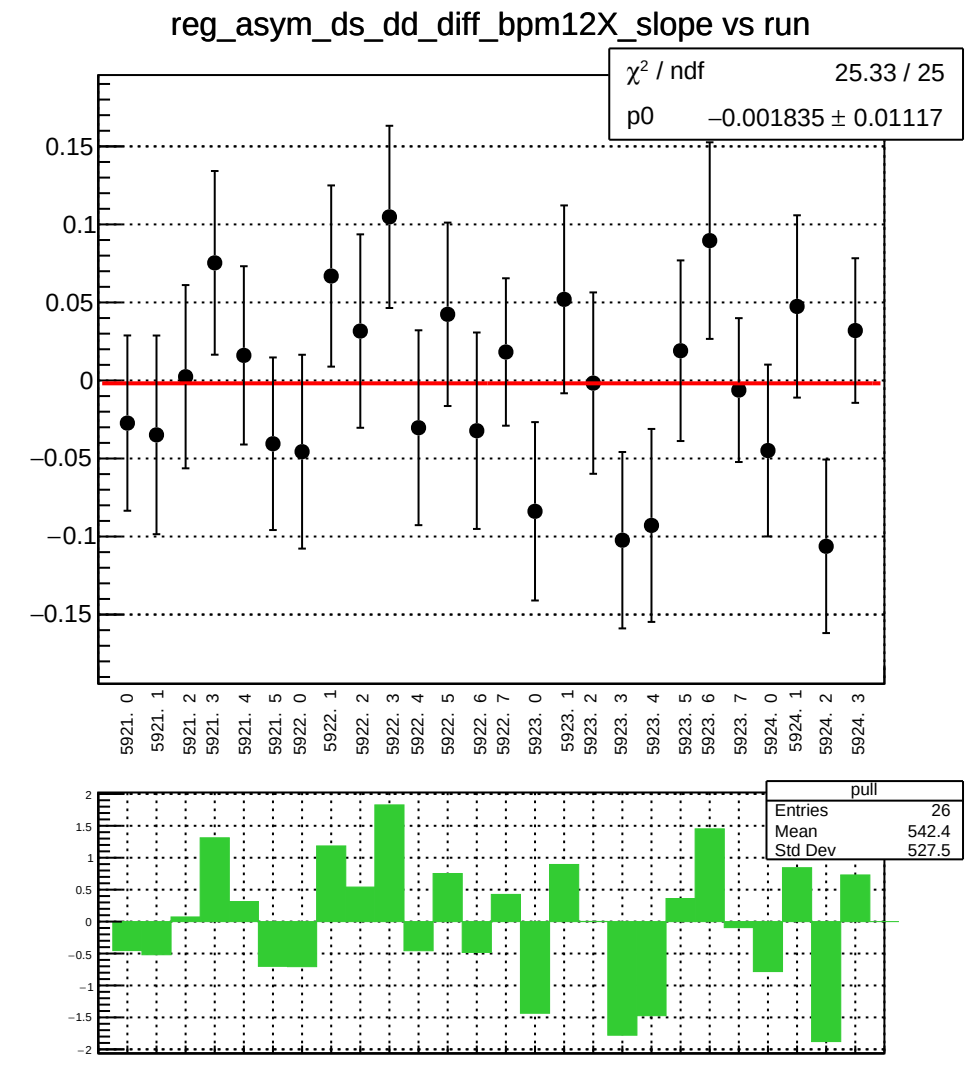

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.83 / 25
p0 0.1257 ± 0.1624
pull
Entries 26
Mean 66.69
Std Dev 53.54

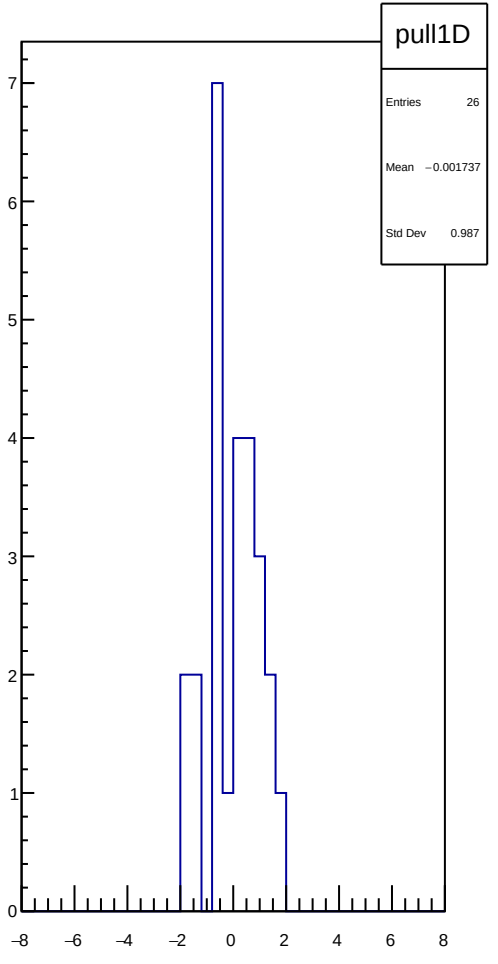

pull1D
Entries 26
Mean −0.02715
Std Dev 1.089

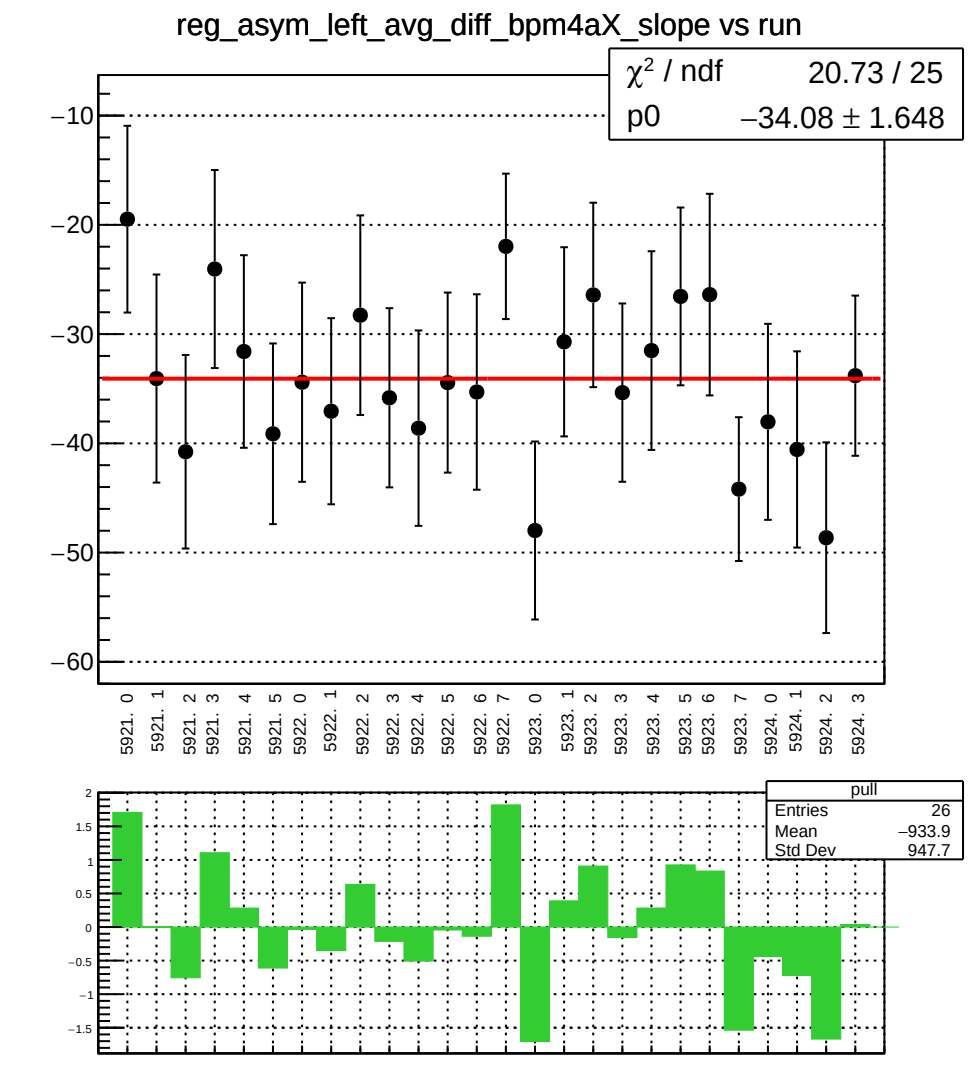

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.26 / 25
p0 0.09317 ± 0.2507
pull
Entries 26
Mean −265.9
Std Dev 280
pull1D
Entries 26
Mean −0.005496
Std Dev 0.9856

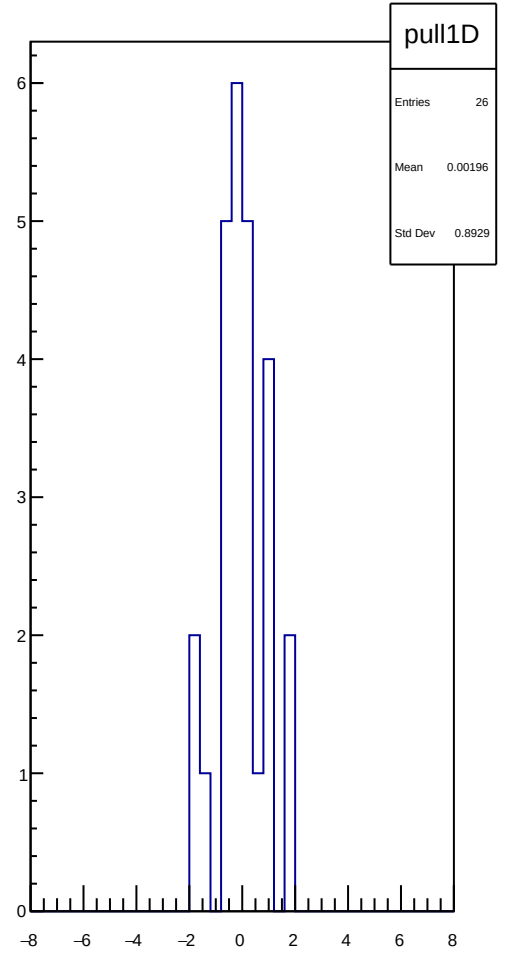

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.9 / 25
p0 −0.1313 ± 0.1784
pull
Entries 26
Mean 59.16
Std Dev 46.06

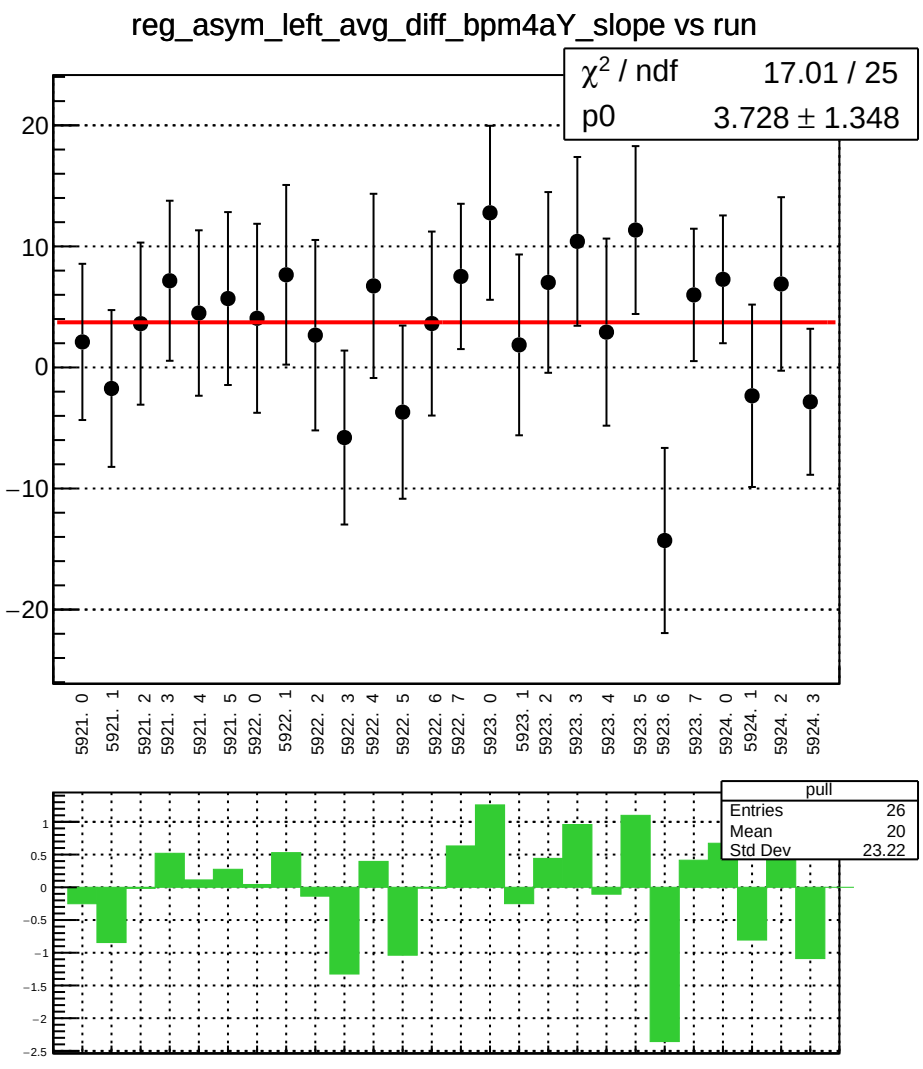

pull1D
Entries 26
Mean 0.02861
Std Dev 1.107

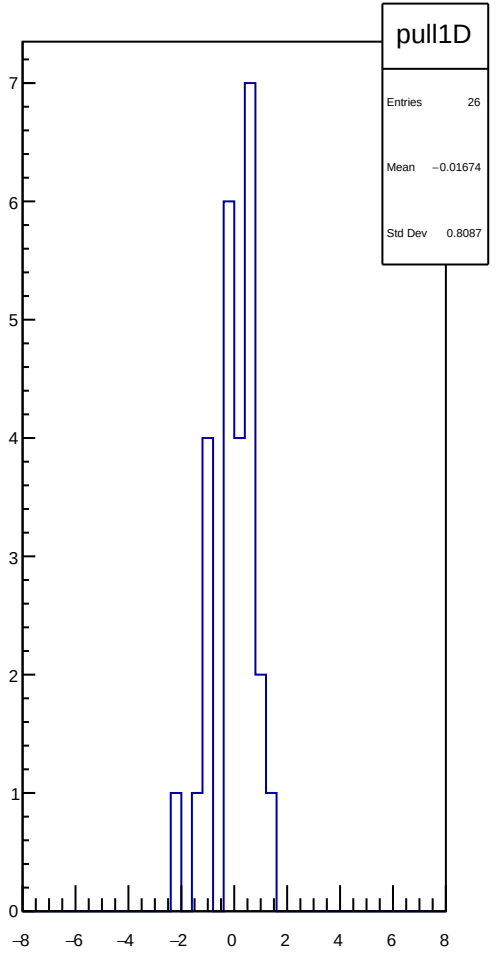

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 25.33 / 25
p0 −0.001835 ± 0.01117
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 542.4
Std Dev 527.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

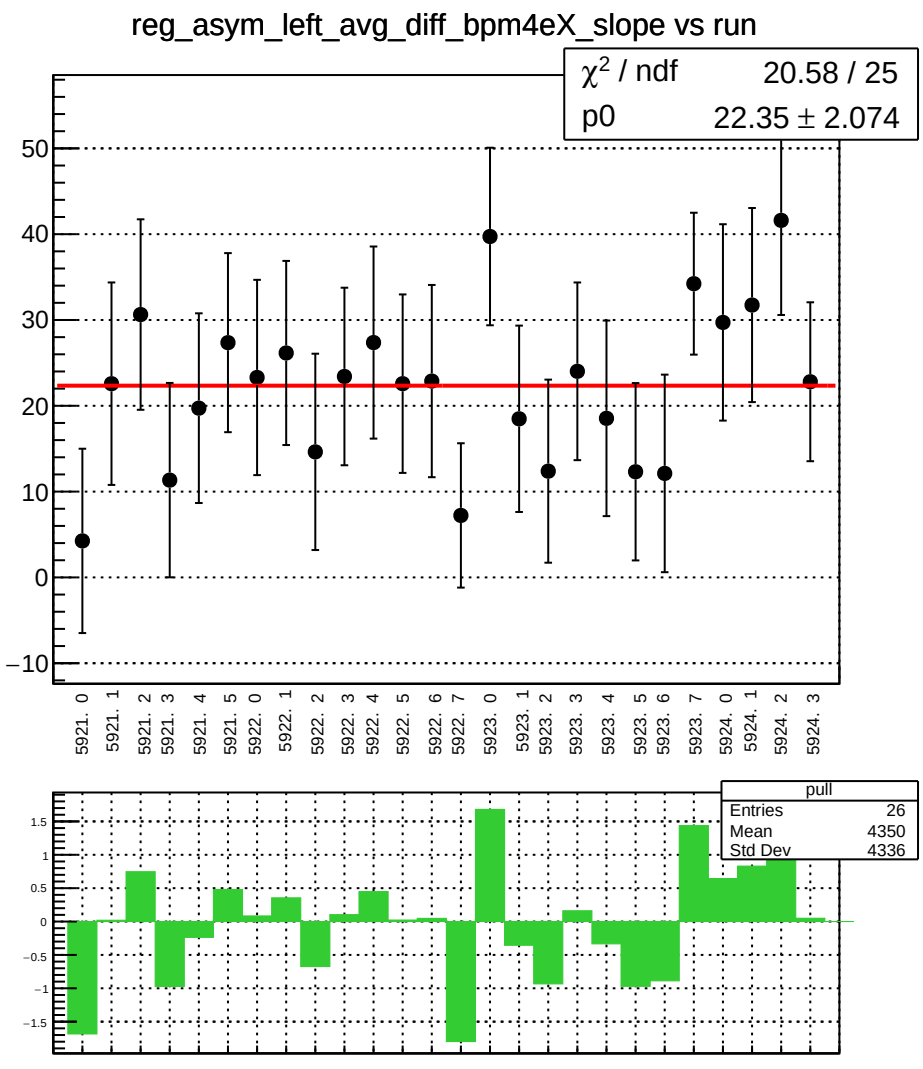

pull1D
Entries 26
Mean −0.001737
Std Dev 0.987
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

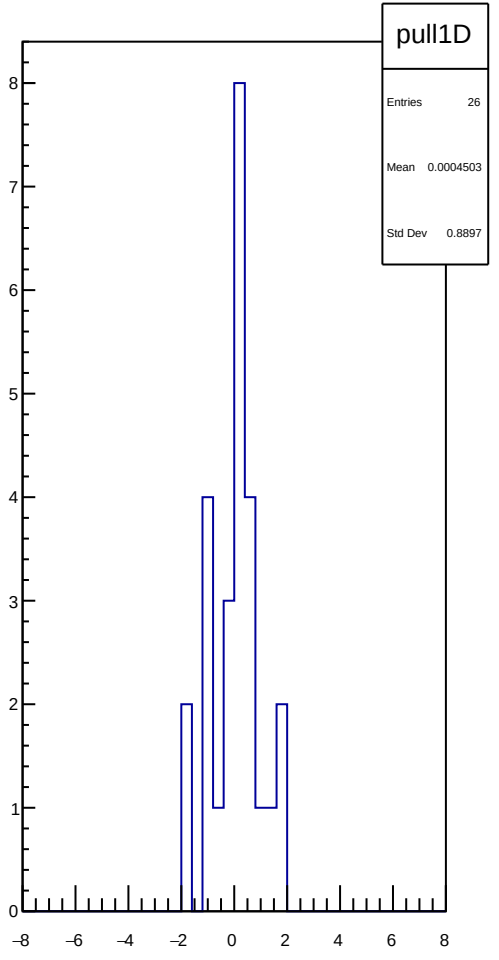

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.73 / 25
p0 −34.08 ± 1.648
−10
−20
−30
−40
−50
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −933.9
Std Dev 947.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

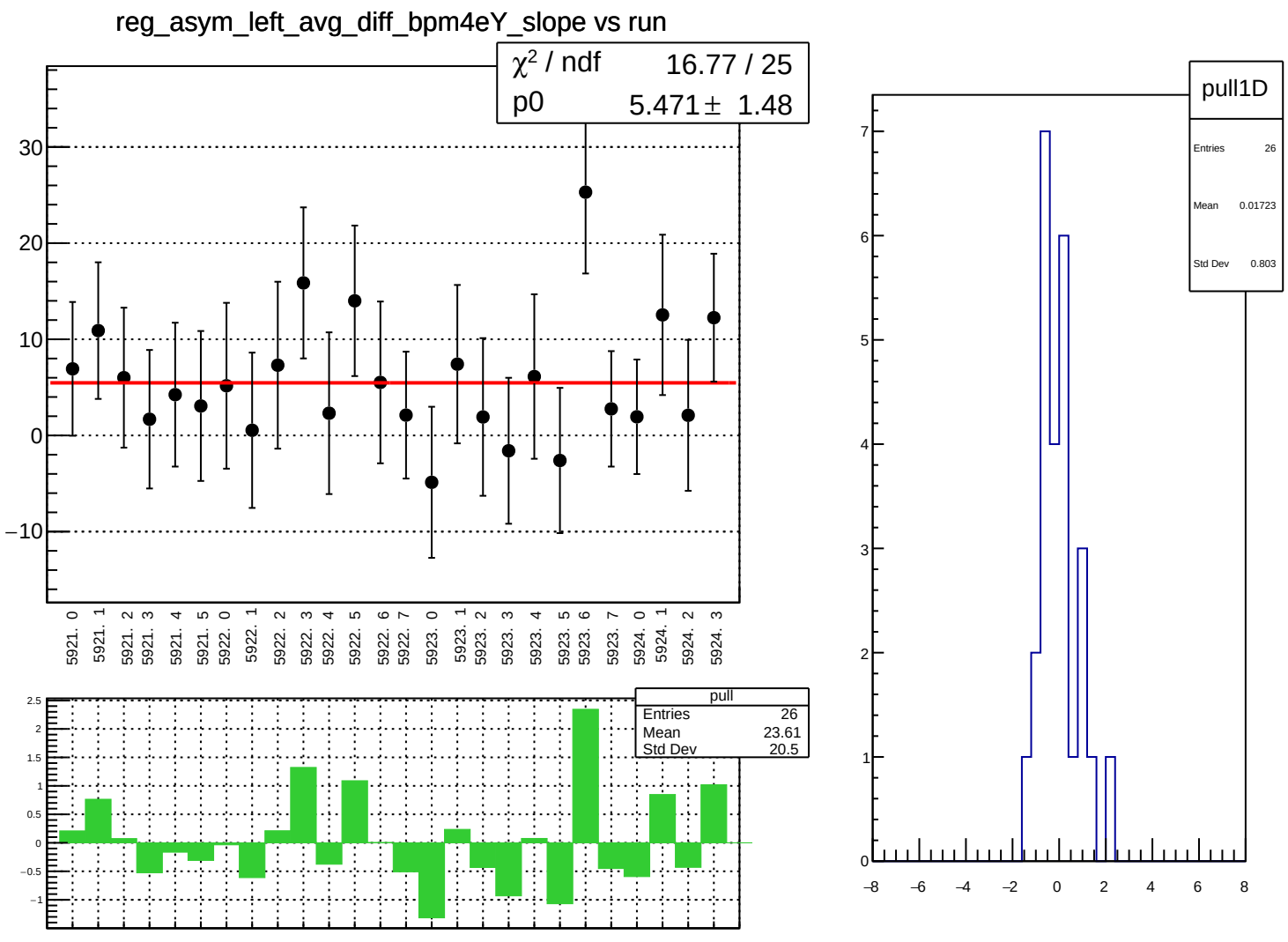

pull1D
Entries 26
Mean 0.00196
Std Dev 0.8929
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

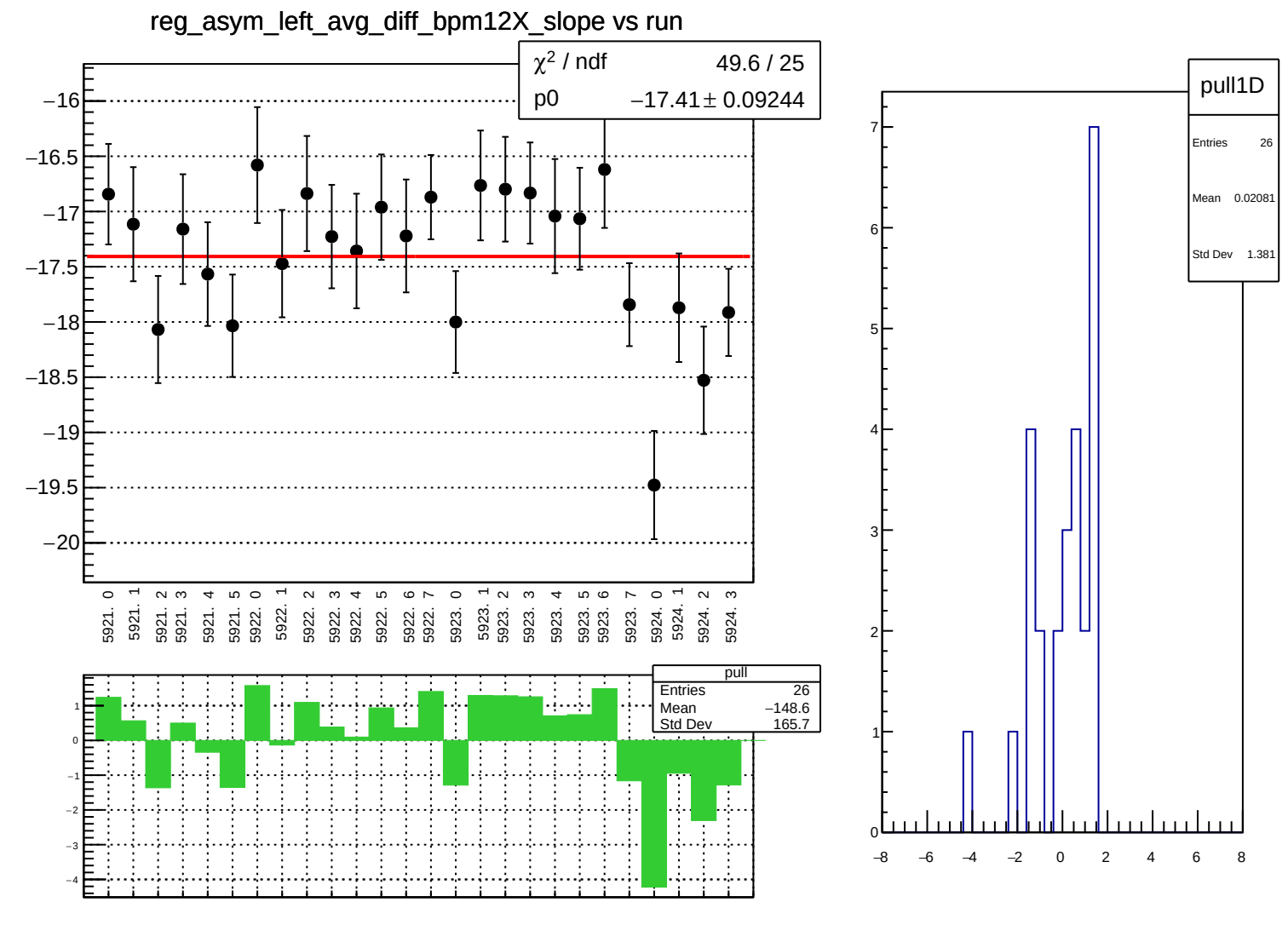

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.01 / 25
p0 3.728 ± 1.348
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 20
Std Dev 23.22
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

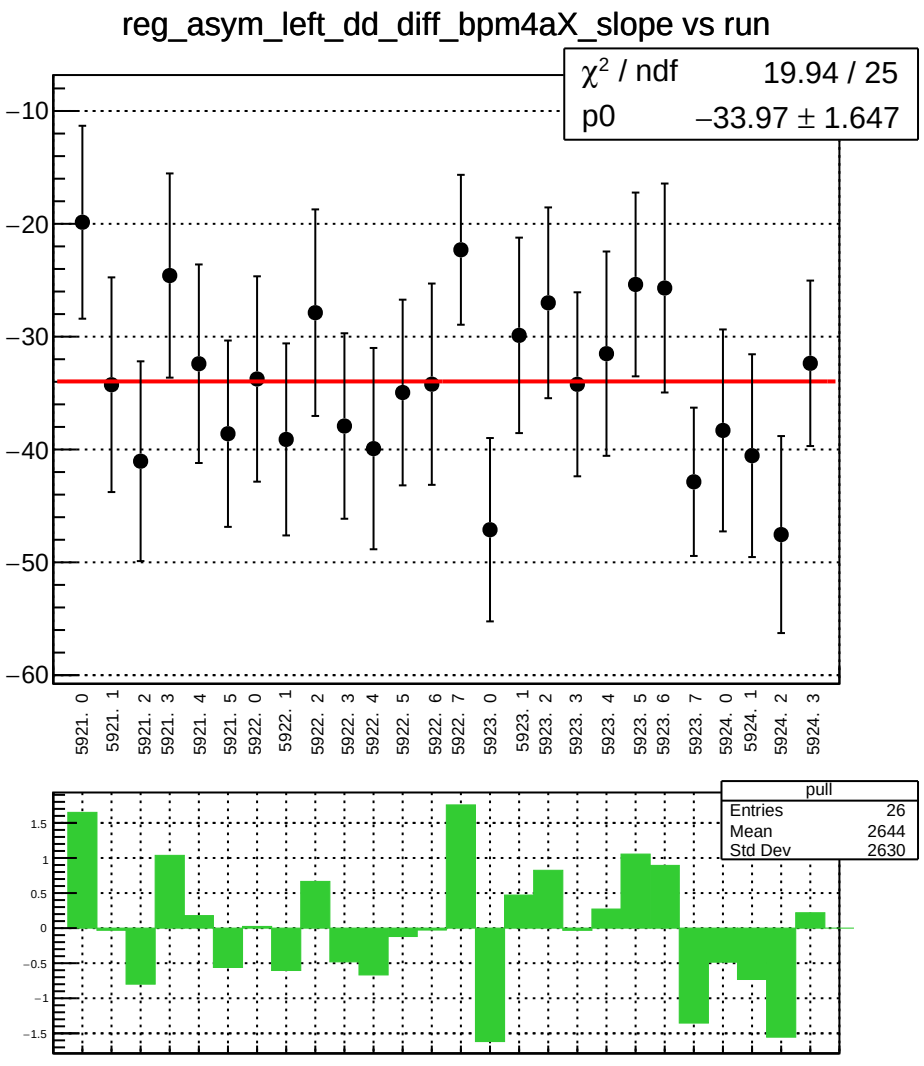

pull1D
Entries 26
Mean −0.01674
Std Dev 0.8087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

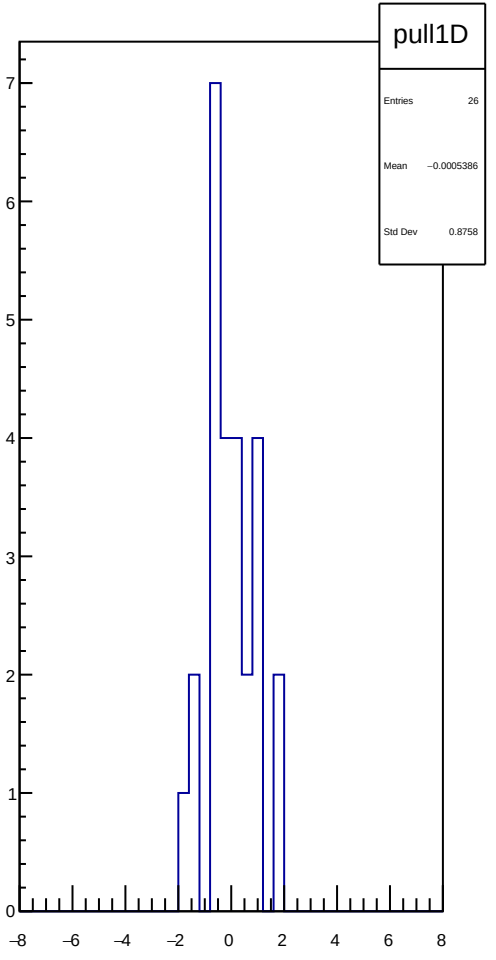

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.58 / 25
p0 22.35 ± 2.074
50
40
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4350
Std Dev 4336
1.5
1
0.5
0
−0.5
−1
−1.5

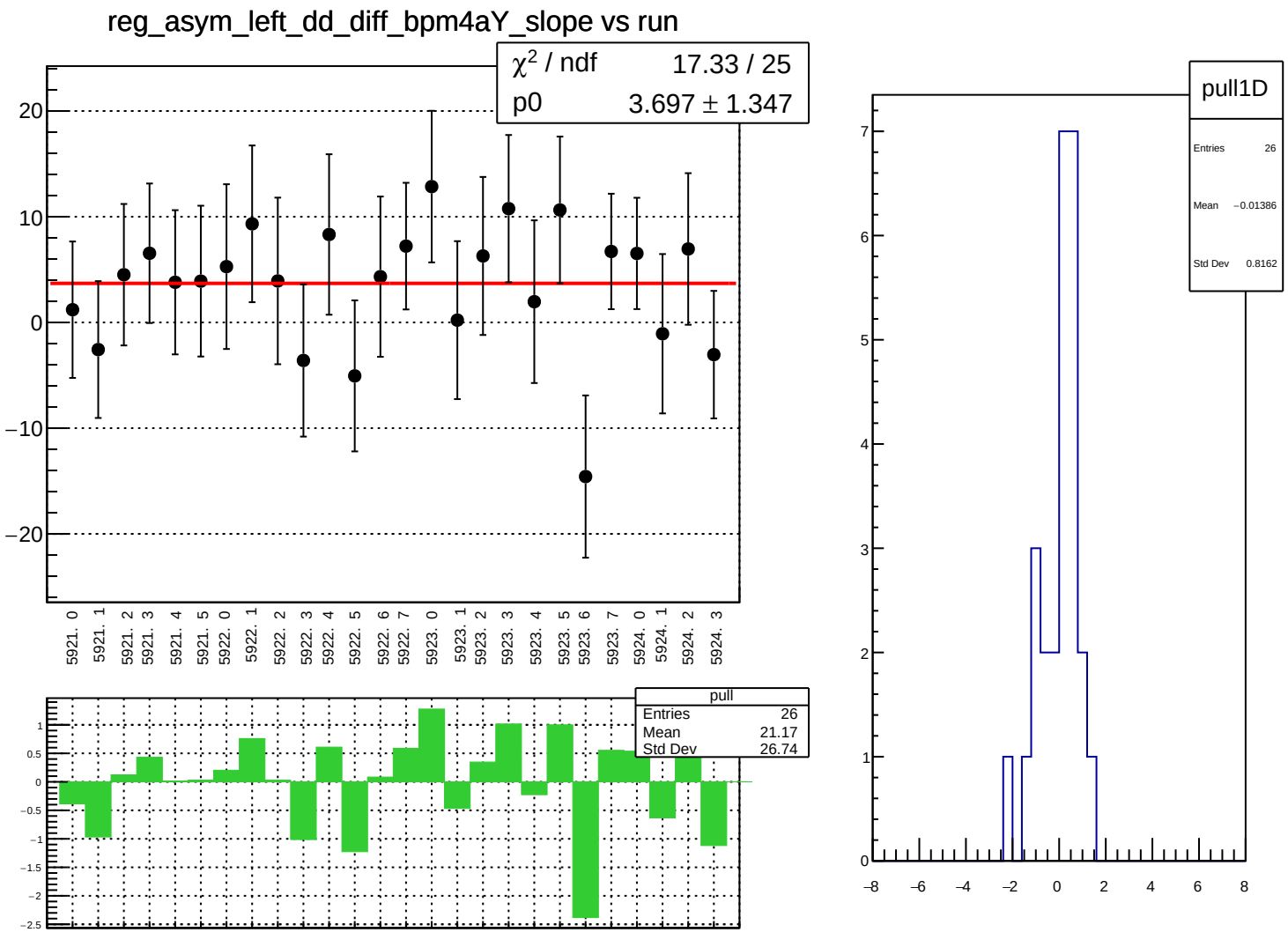

pull1D
Entries 26
Mean 0.0004503
Std Dev 0.8897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

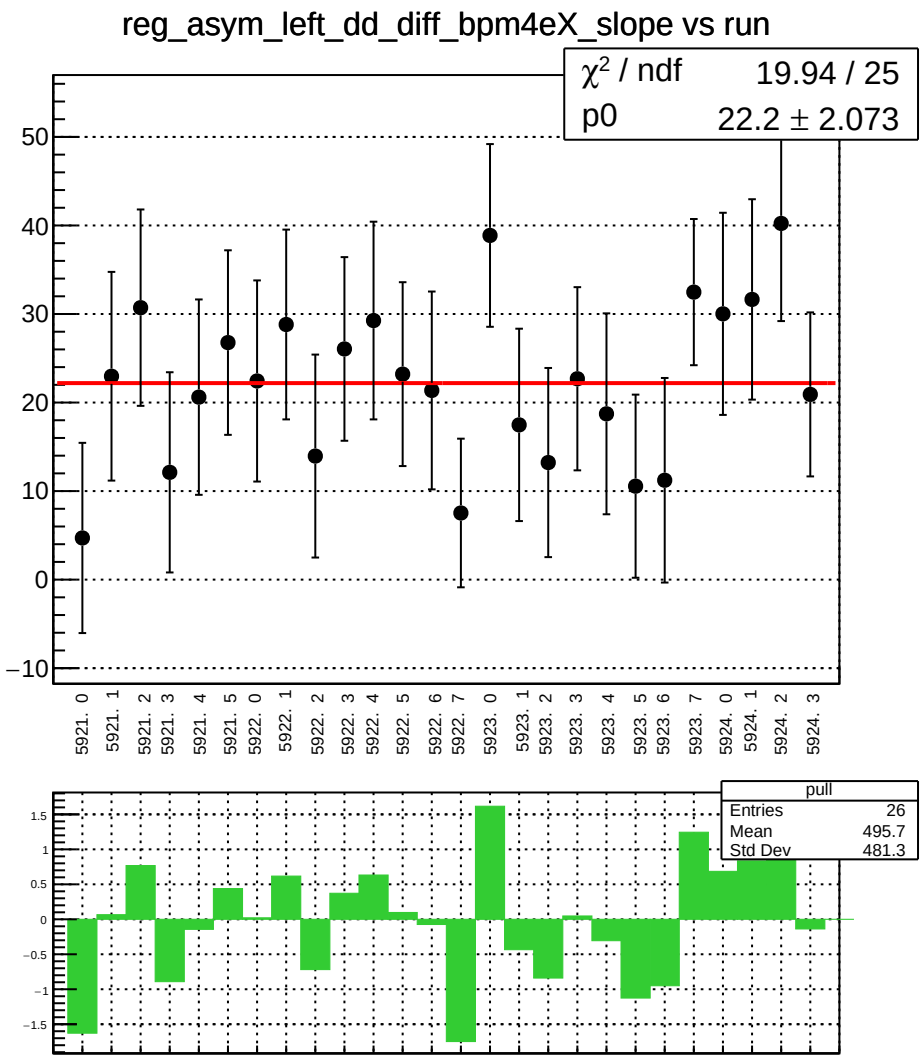

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.77 / 25
p0 5.471 ± 1.48
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 23.61
Std Dev 20.5
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.01723
Std Dev 0.803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

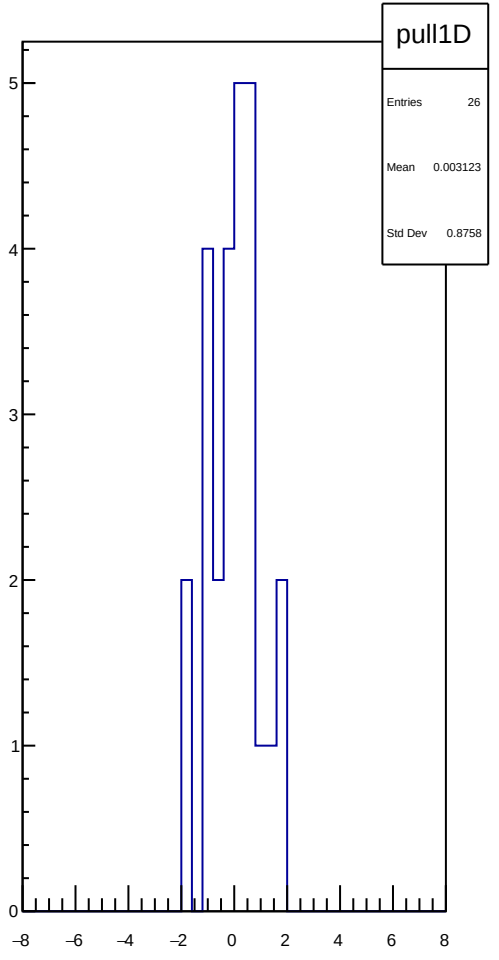

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 49.6 / 25
p0 −17.41 ± 0.09244
−16
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −148.6
Std Dev 165.7
pull1D
Entries 26
Mean 0.02081
Std Dev 1.381

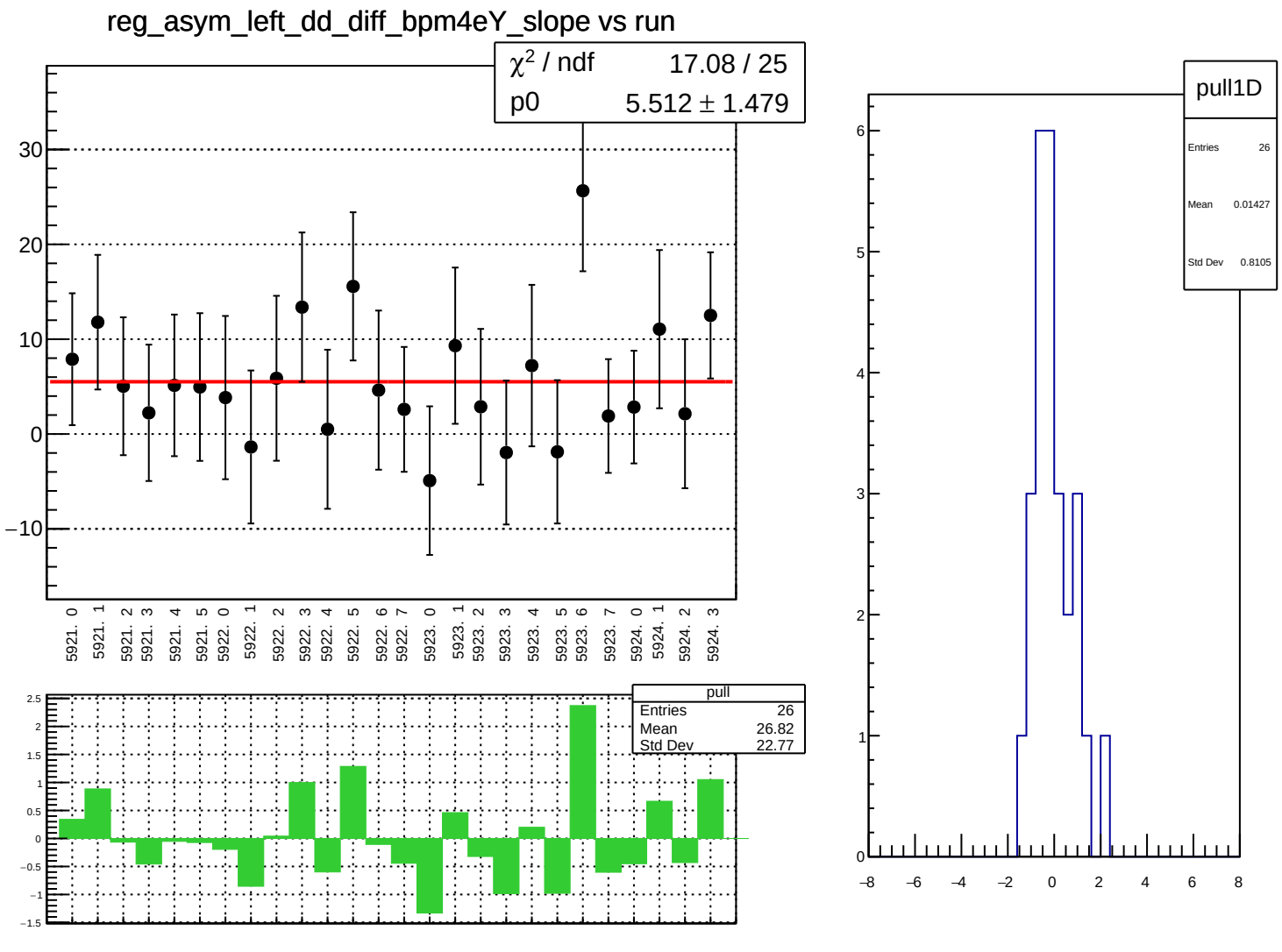

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.94 / 25
p0 −33.97 ± 1.647
−10
−20
−30
−40
−50
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 2644
Std Dev 2630
1.5
1
0.5
0
−0.5
−1
−1.5

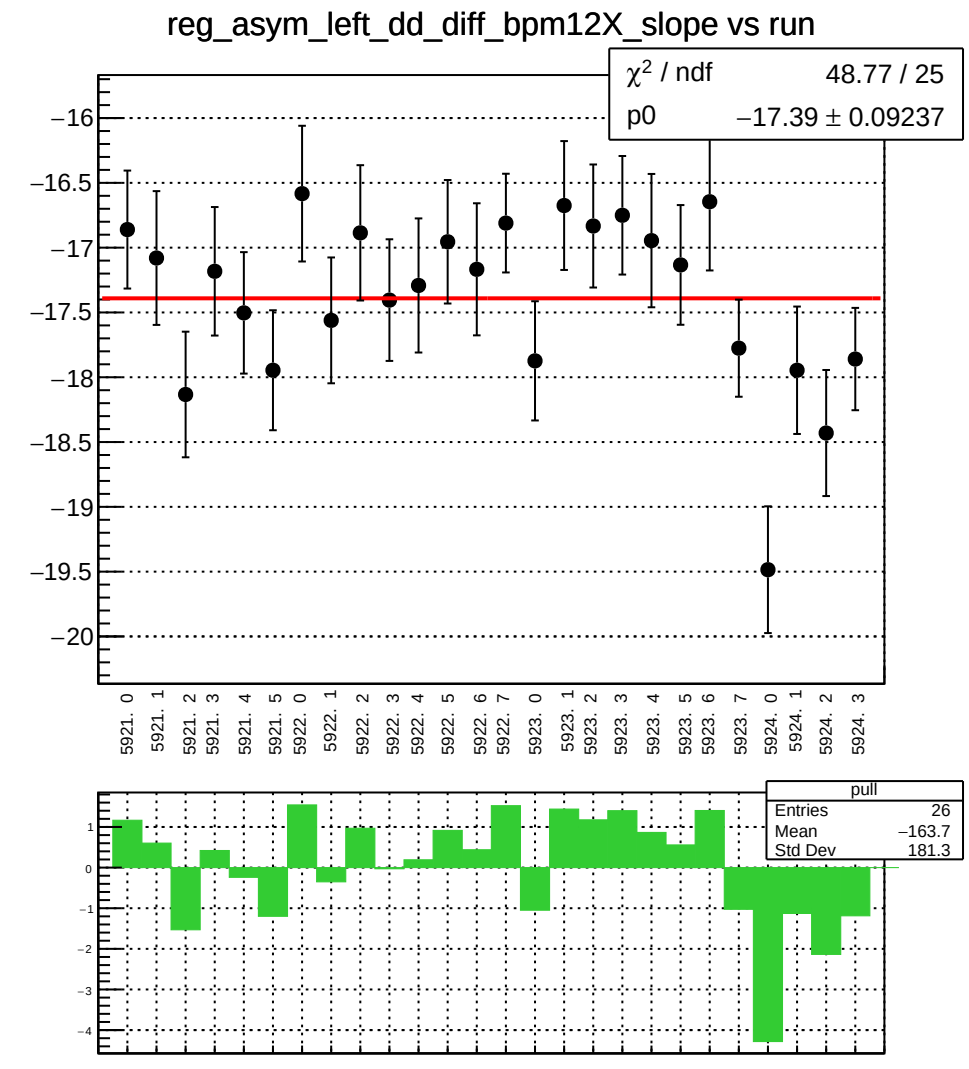

pull1D
Entries 26
Mean −0.0005386
Std Dev 0.8758
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

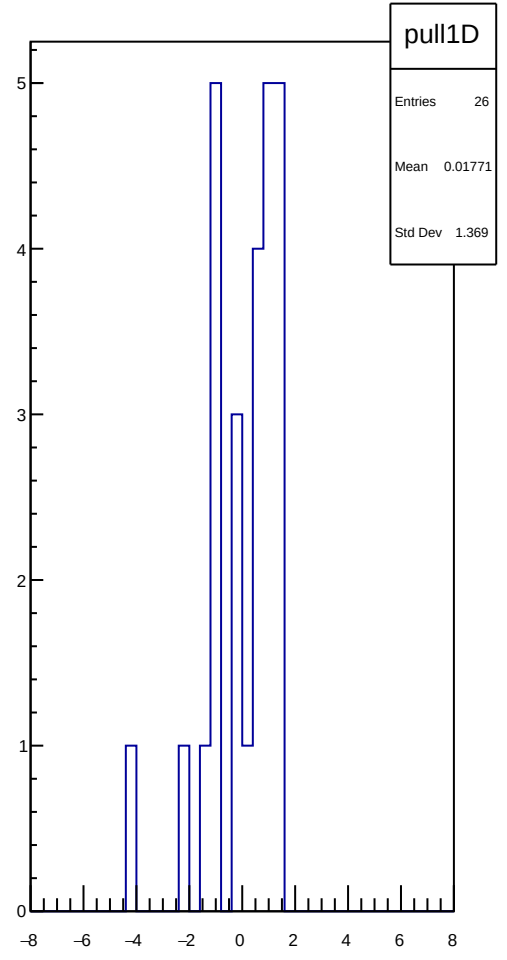

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.33 / 25
p0 3.697 ± 1.347
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 21.17
Std Dev 26.74
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean −0.01386
Std Dev 0.8162
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

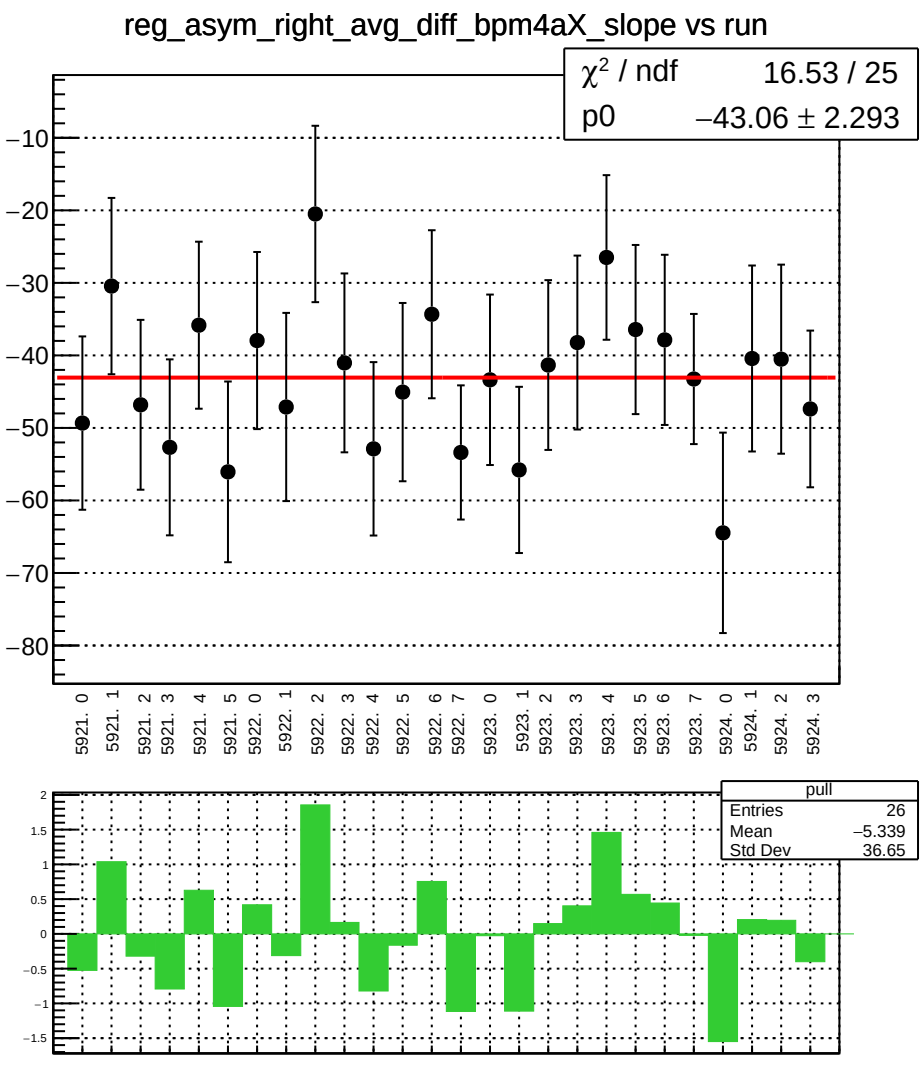

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.94 / 25
p0 22.2 ± 2.073
50
40
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 495.7
Std Dev 481.3
1.5
1
0.5
0
−0.5
−1
−1.5

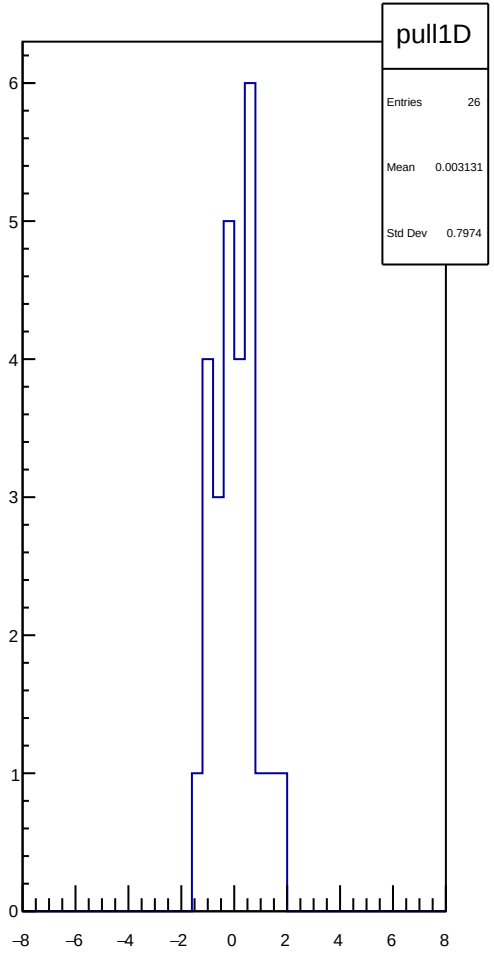

pull1D
Entries 26
Mean 0.003123
Std Dev 0.8758
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

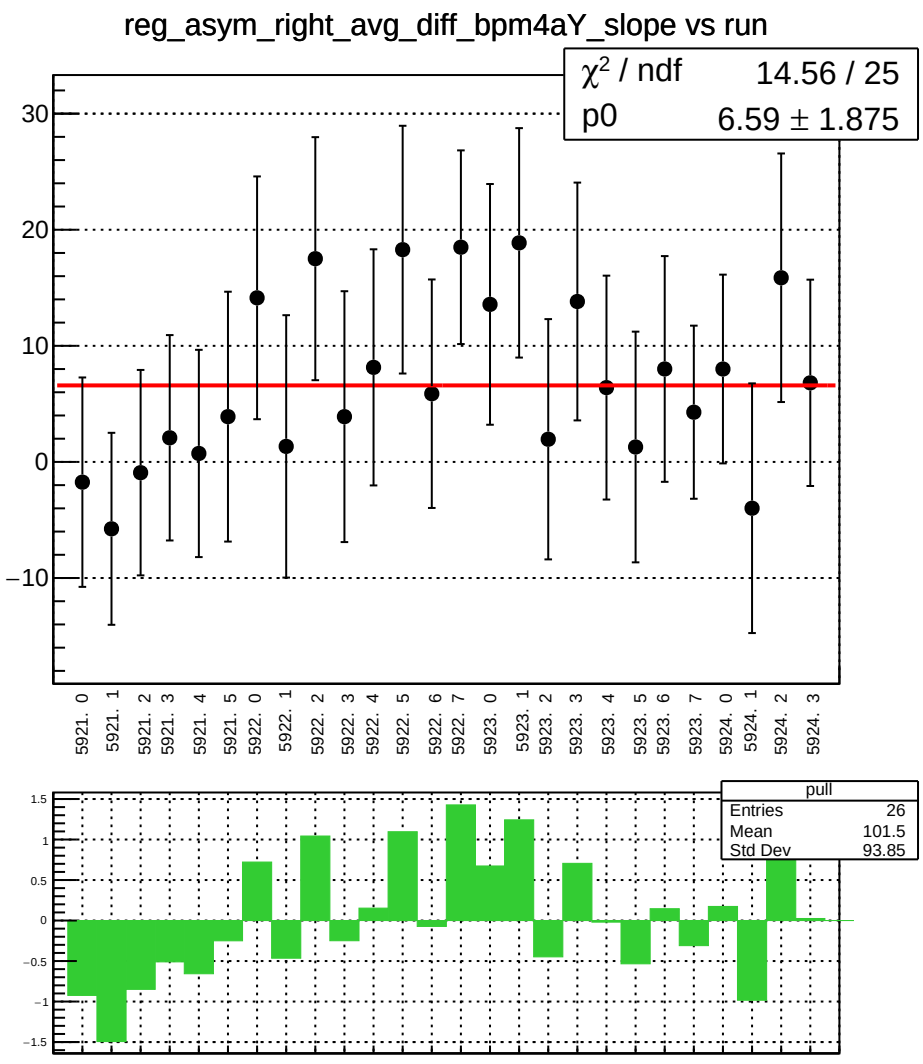

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.08 / 25
p0 5.512 ± 1.479
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 26.82
Std Dev 22.77
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.01427
Std Dev 0.8105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

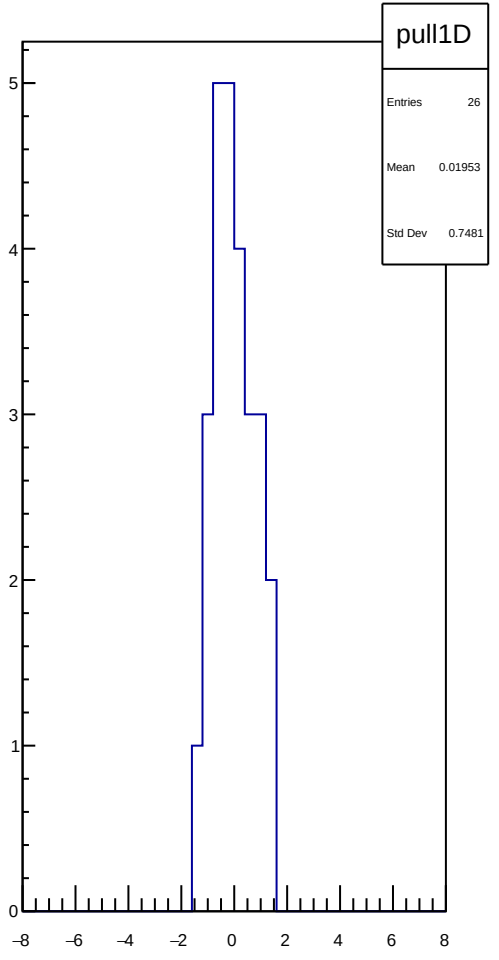

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 48.77 / 25
p0 −17.39 ± 0.09237
−16
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −163.7
Std Dev 181.3
1
0
−1
−2
−3
−4

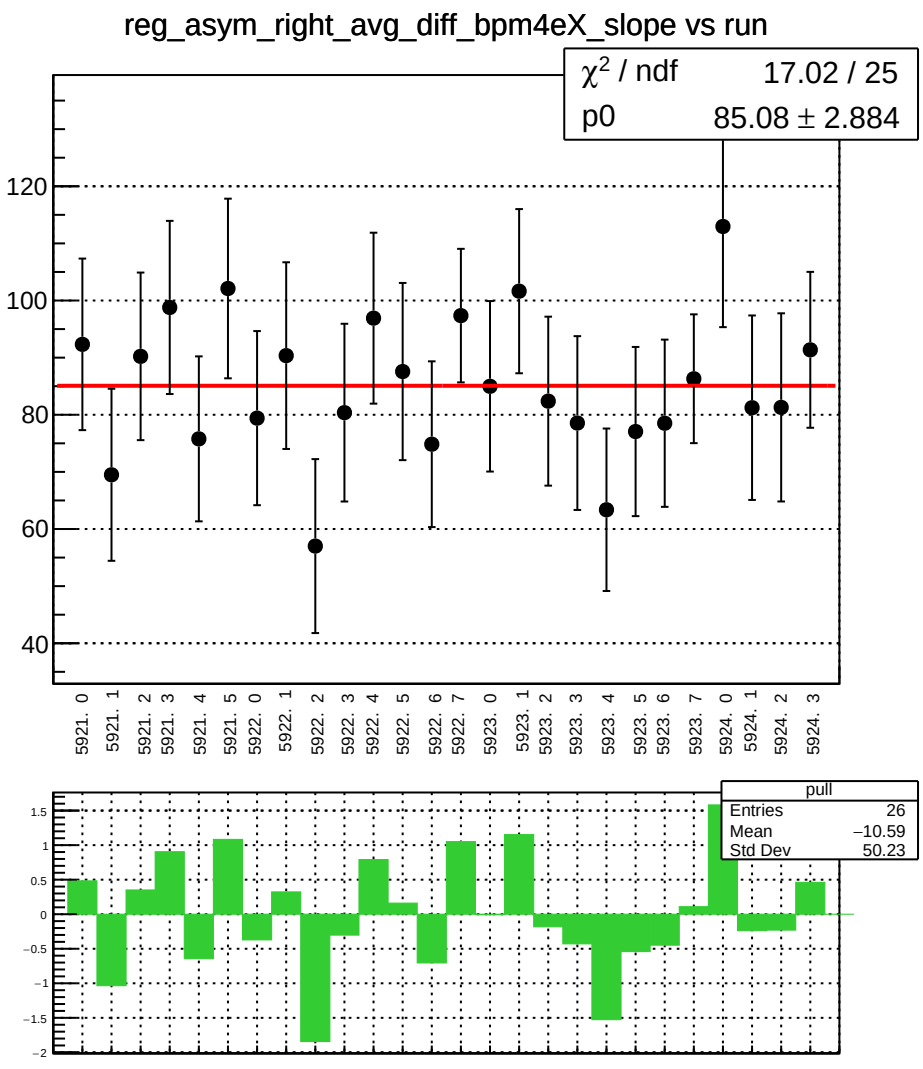

pull1D
Entries 26
Mean 0.01771
Std Dev 1.369
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

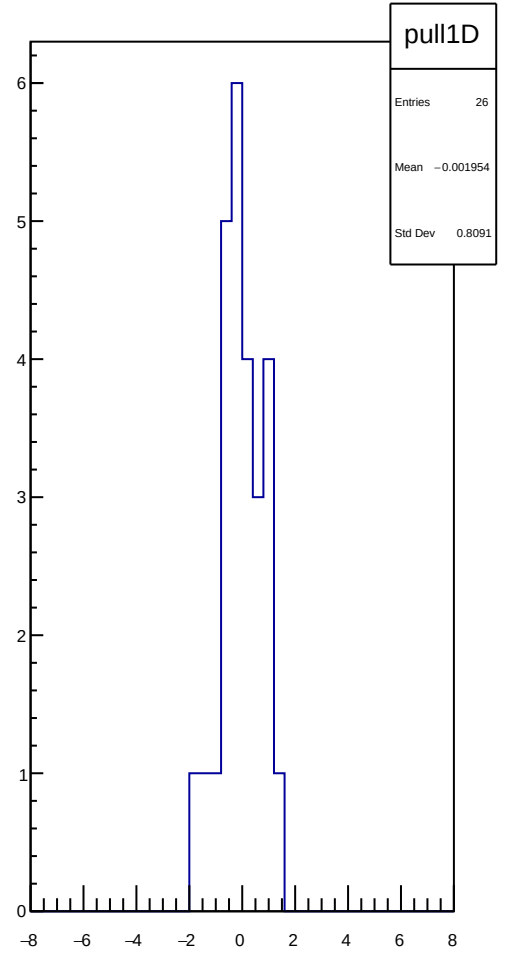

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.53 / 25
p0 −43.06 ± 2.293
pull
Entries 26
Mean −5.339
Std Dev 36.65

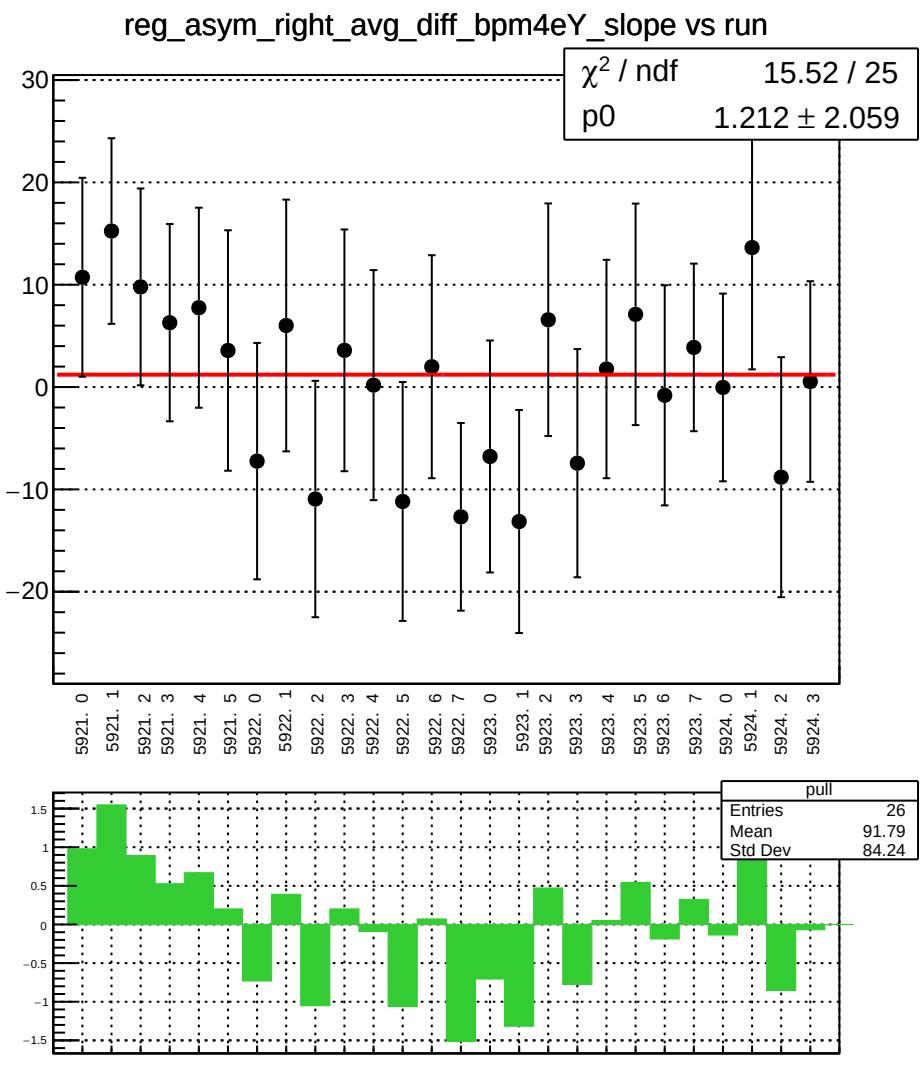

pull1D
Entries 26
Mean 0.003131
Std Dev 0.7974

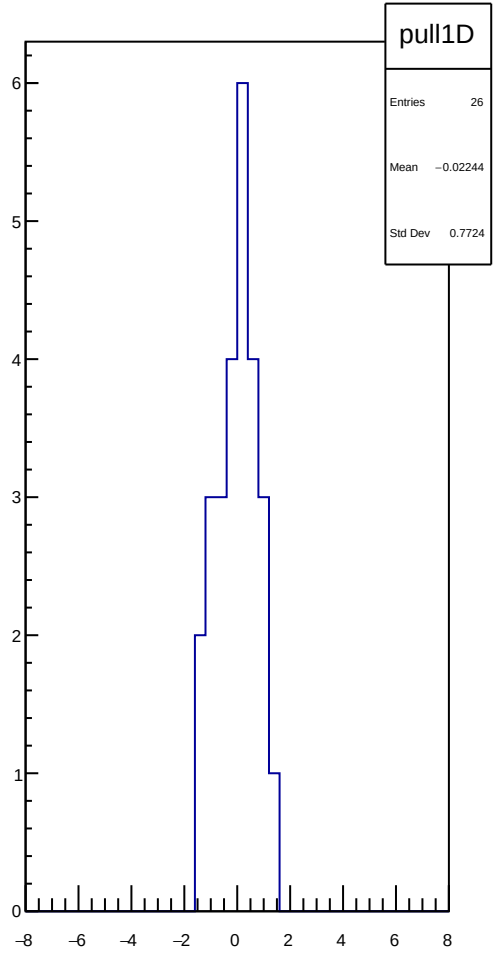

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.56 / 25
p0 6.59 ± 1.875
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 101.5
Std Dev 93.85
1.5
1
0.5
0
−0.5
−1
−1.5

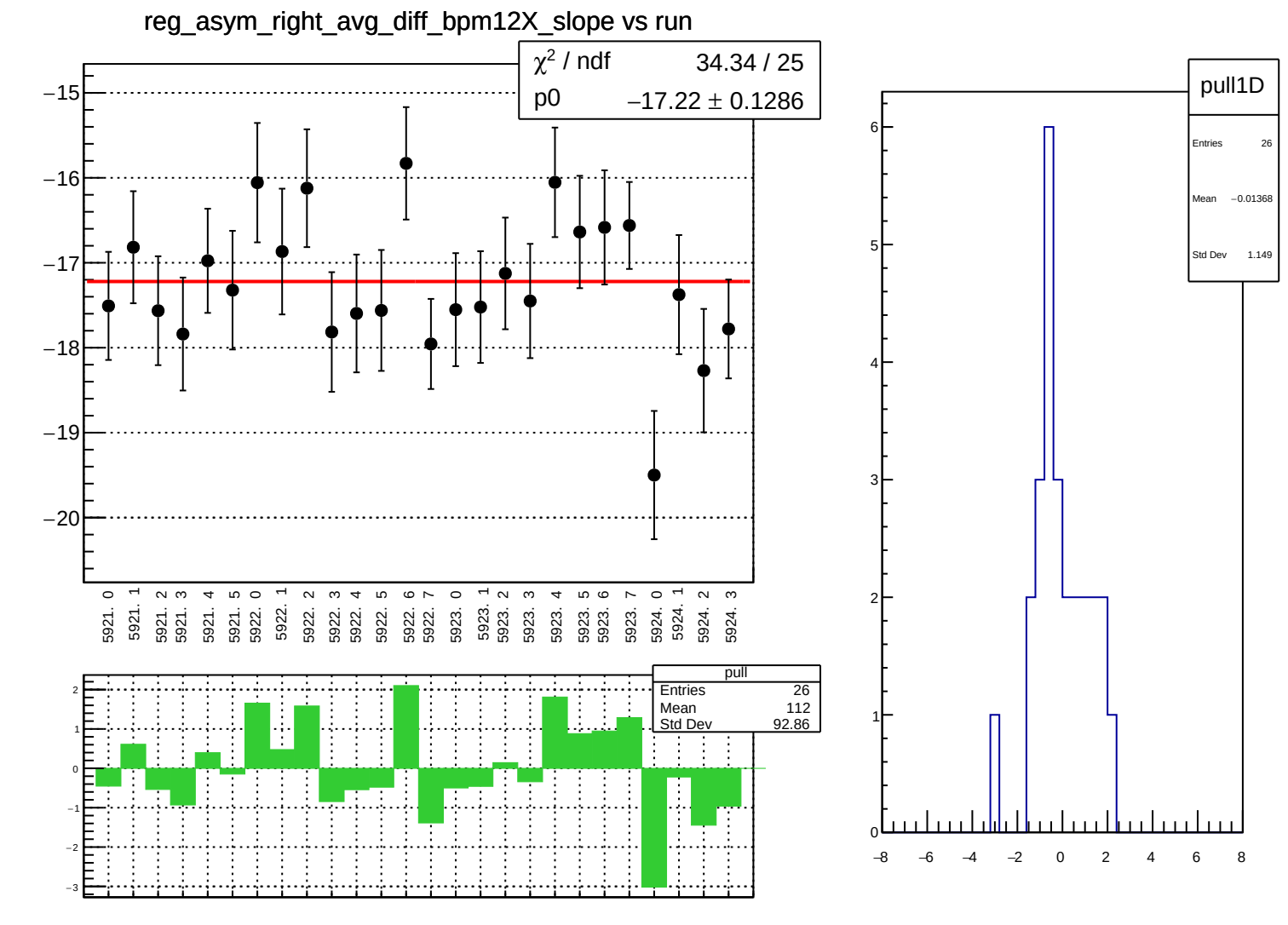

pull1D
Entries 26
Mean 0.01953
Std Dev 0.7481
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

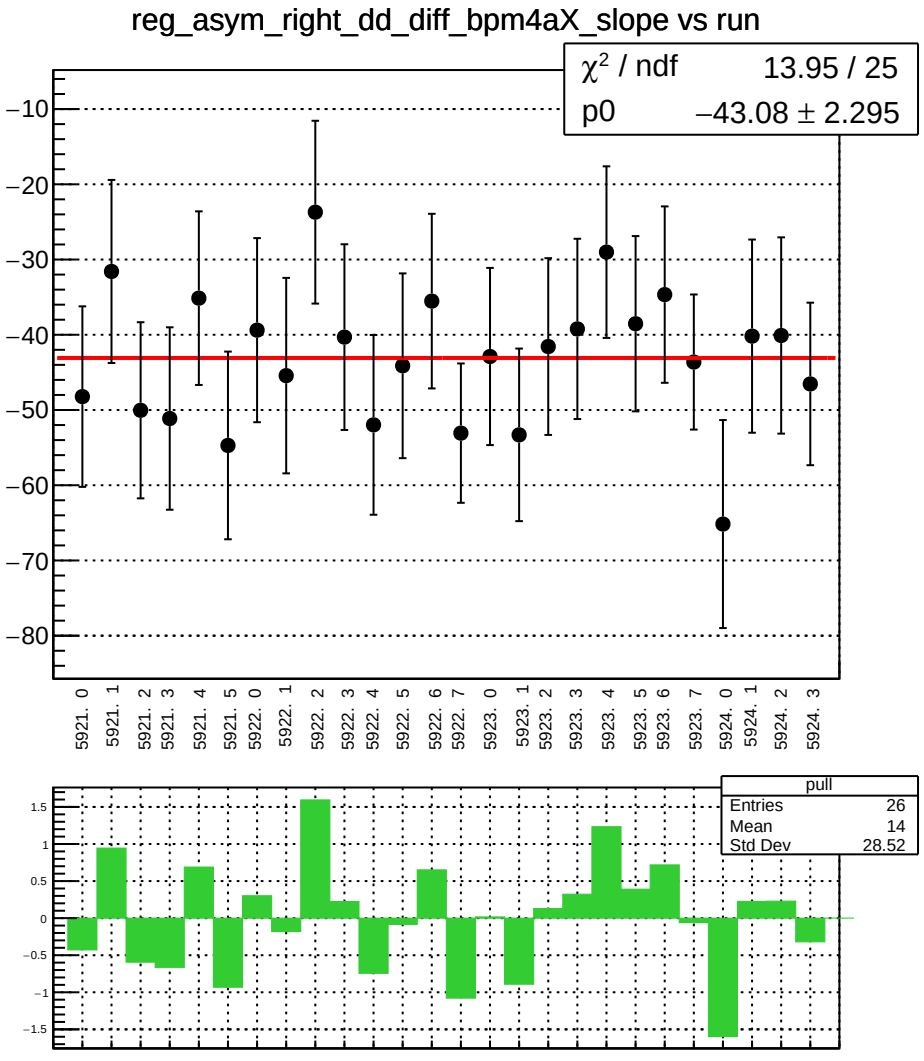

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.02 / 25
p0 85.08 ± 2.884
120
100
80
60
40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −10.59
Std Dev 50.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

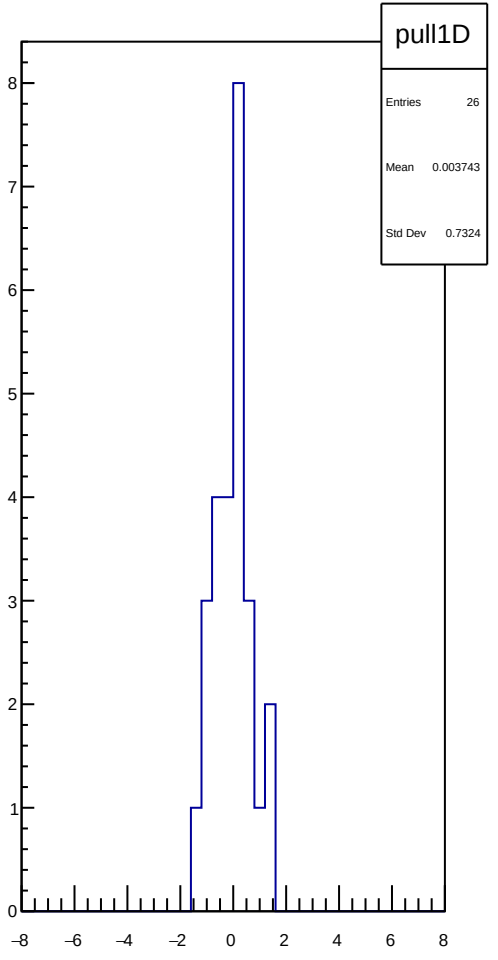

pull1D
Entries 26
Mean −0.001954
Std Dev 0.8091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

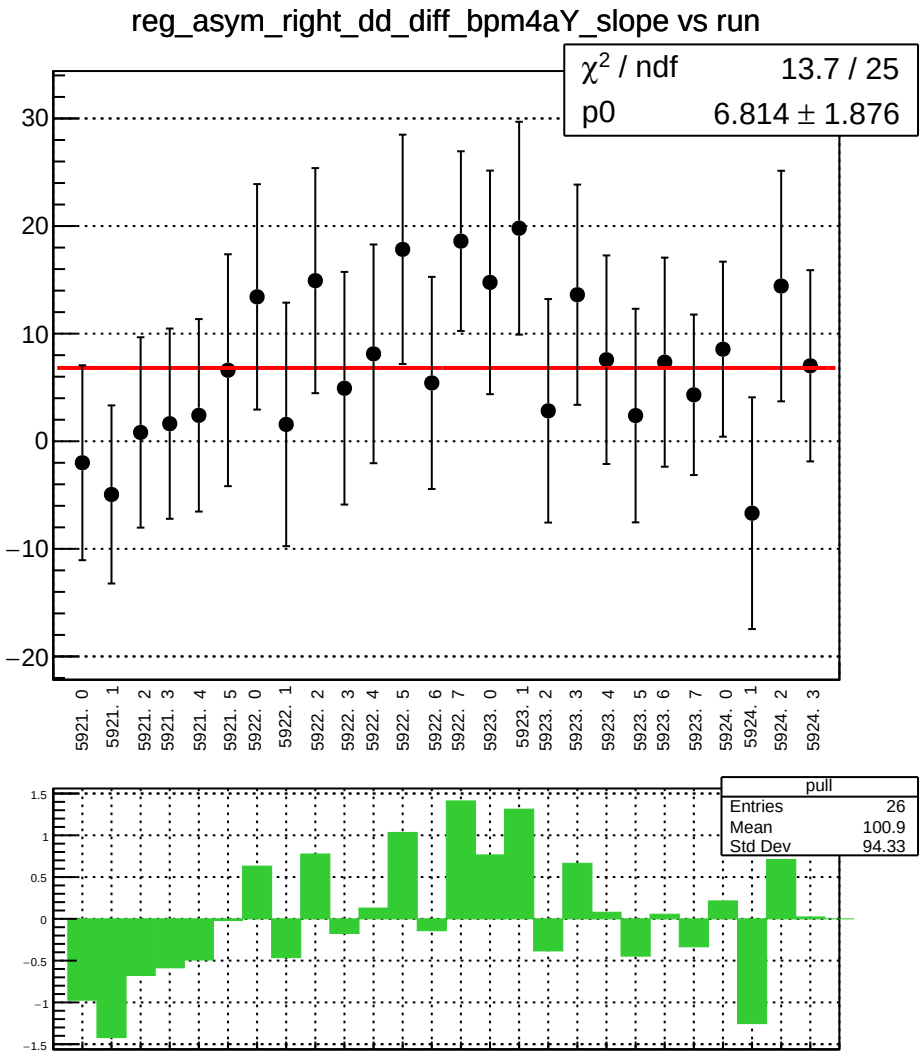

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.52 / 25
p0 1.212 ± 2.059
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 91.79
Std Dev 84.24
1.5
1
0.5
0
−0.5
−1
−1.5

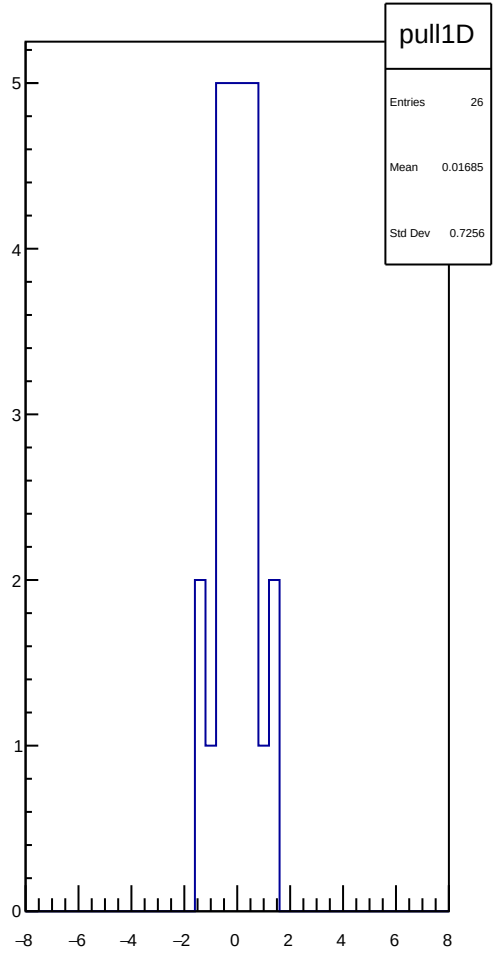

pull1D
Entries 26
Mean −0.02244
Std Dev 0.7724
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

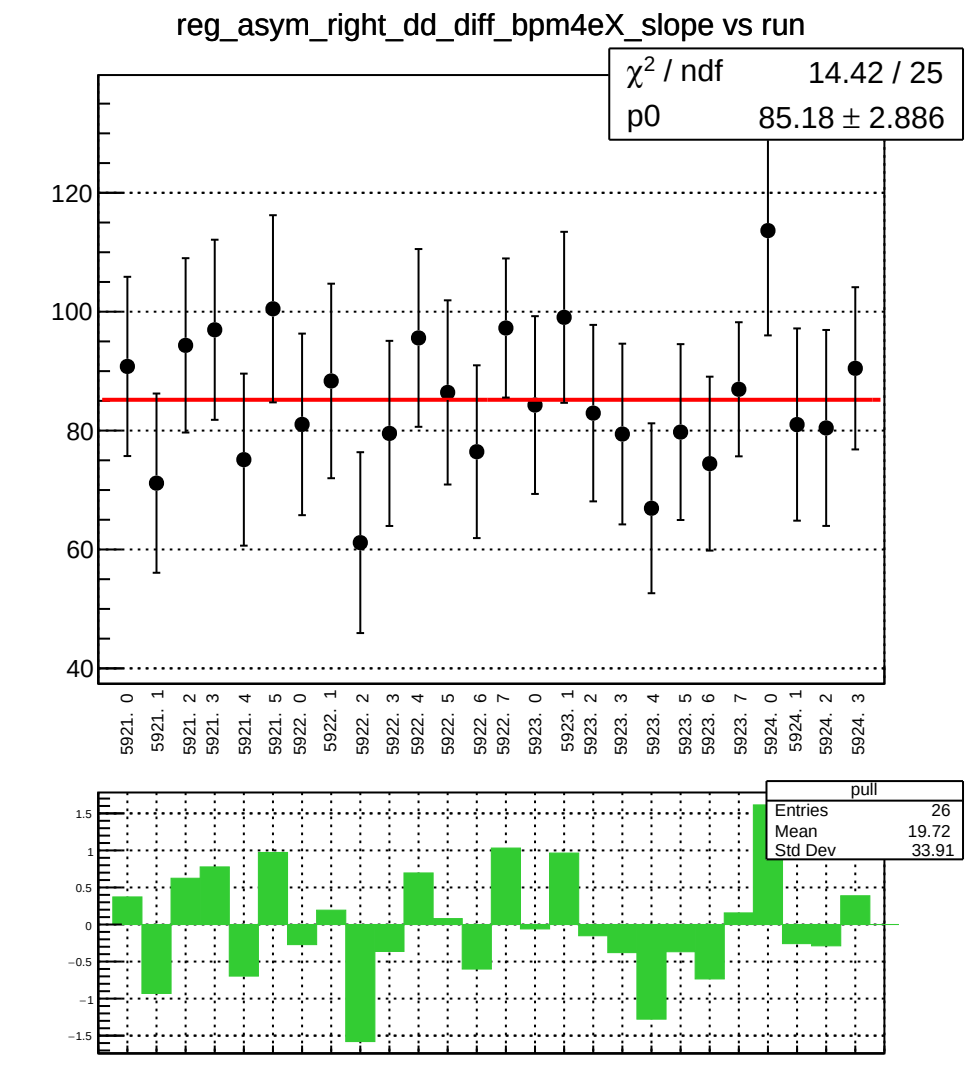

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 34.34 / 25
p0 −17.22 ± 0.1286
−15
−16
−17
−18
−19
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 112
Std Dev 92.86
pull1D
Entries 26
Mean −0.01368
Std Dev 1.149

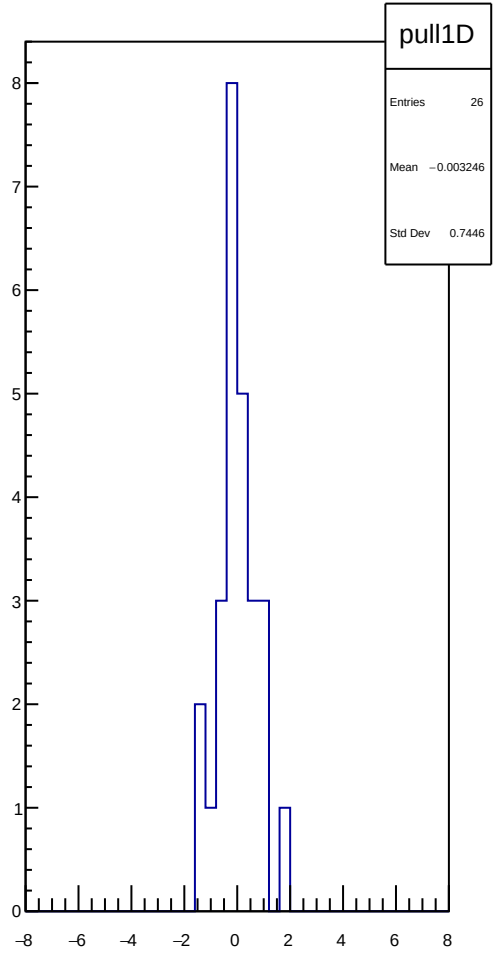

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.95 / 25
p0 −43.08 ± 2.295
−10
−20
−30
−40
−50
−60
−70
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 14
Std Dev 28.52
1.5
1
0.5
0
−0.5
−1
−1.5

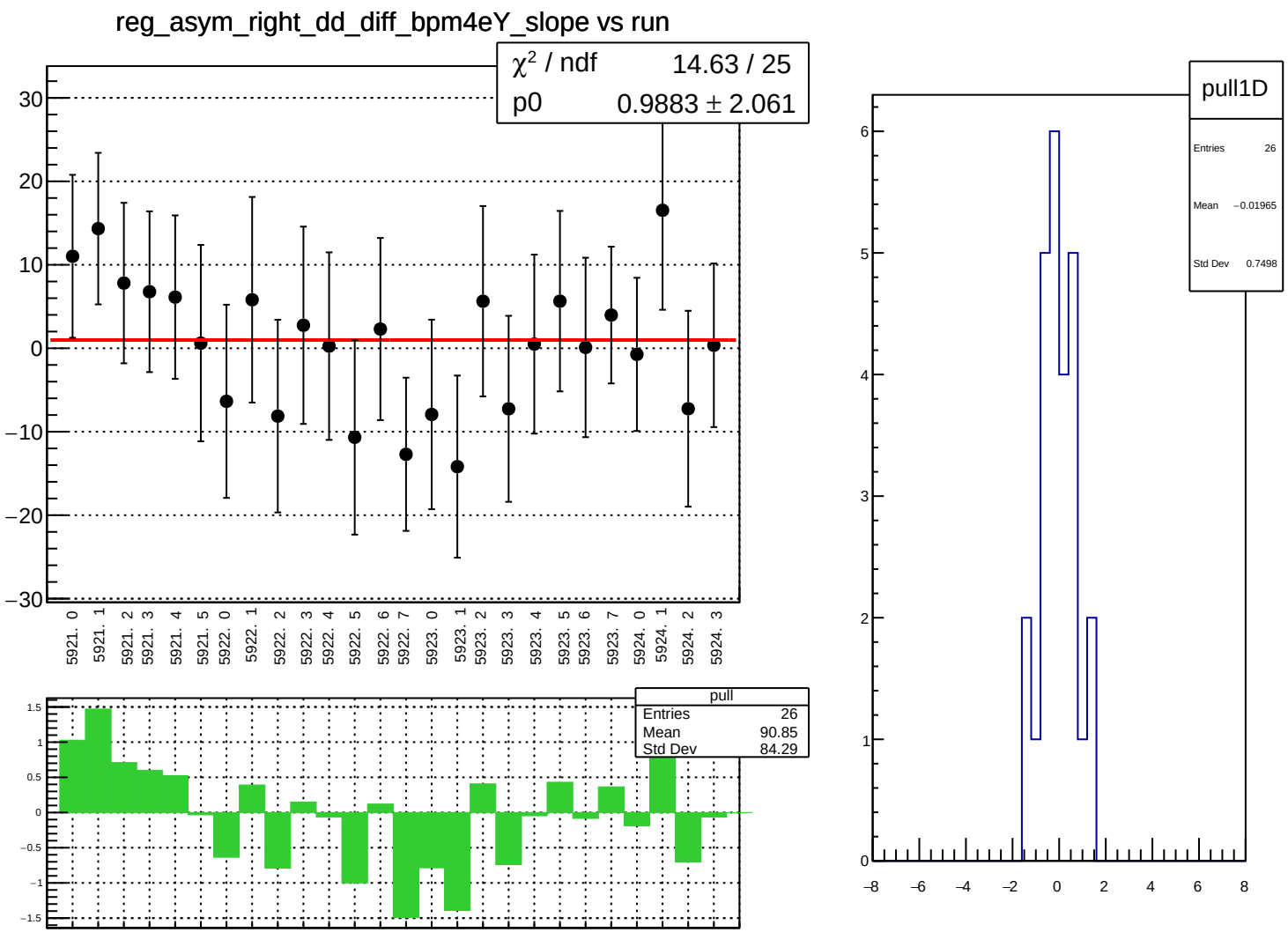

pull1D
Entries 26
Mean 0.003743
Std Dev 0.7324
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

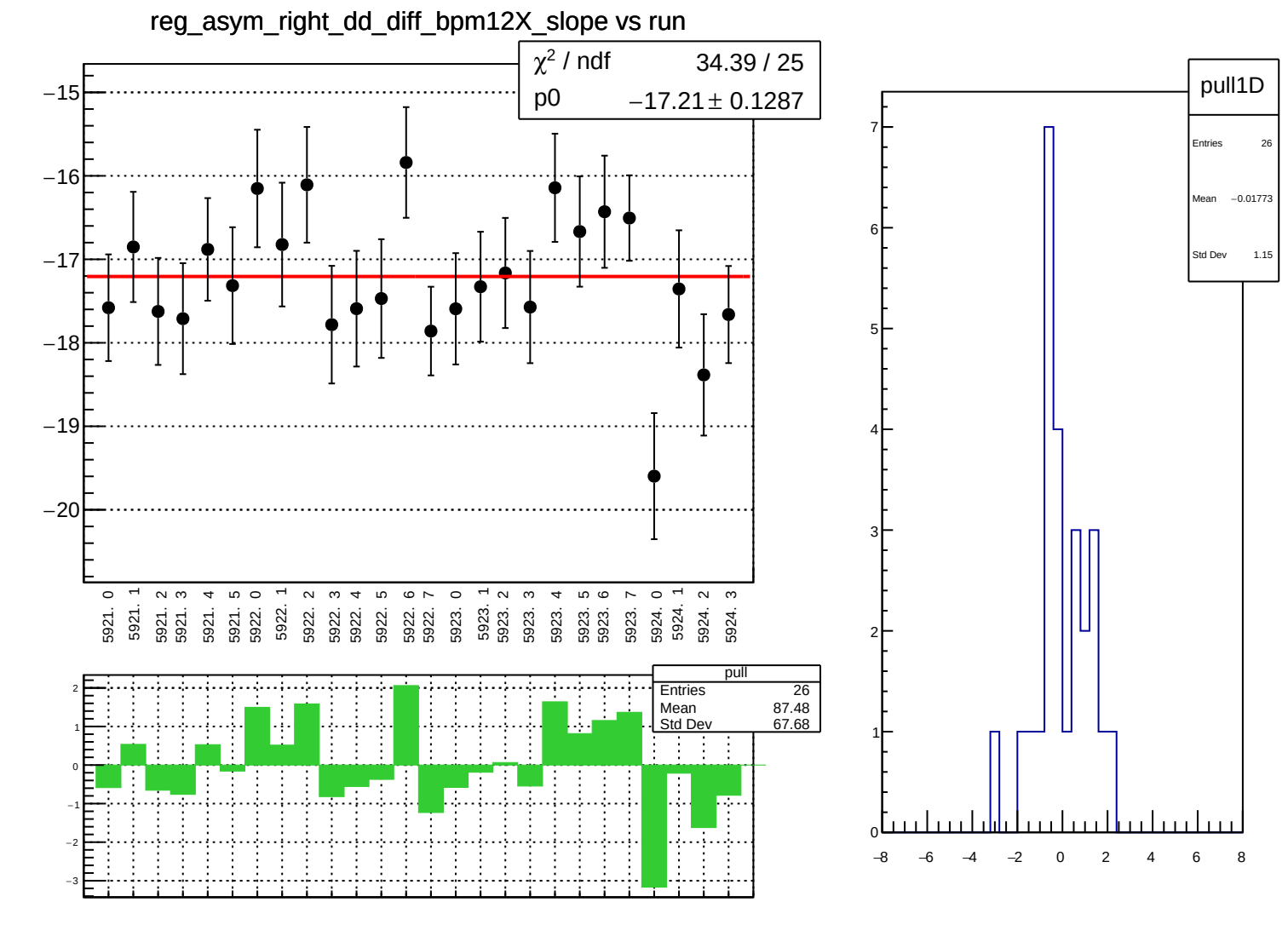

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.7 / 25
p0 6.814 ± 1.876
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 100.9
Std Dev 94.33
1.5
1
0.5
0
−0.5
−1
−1.5

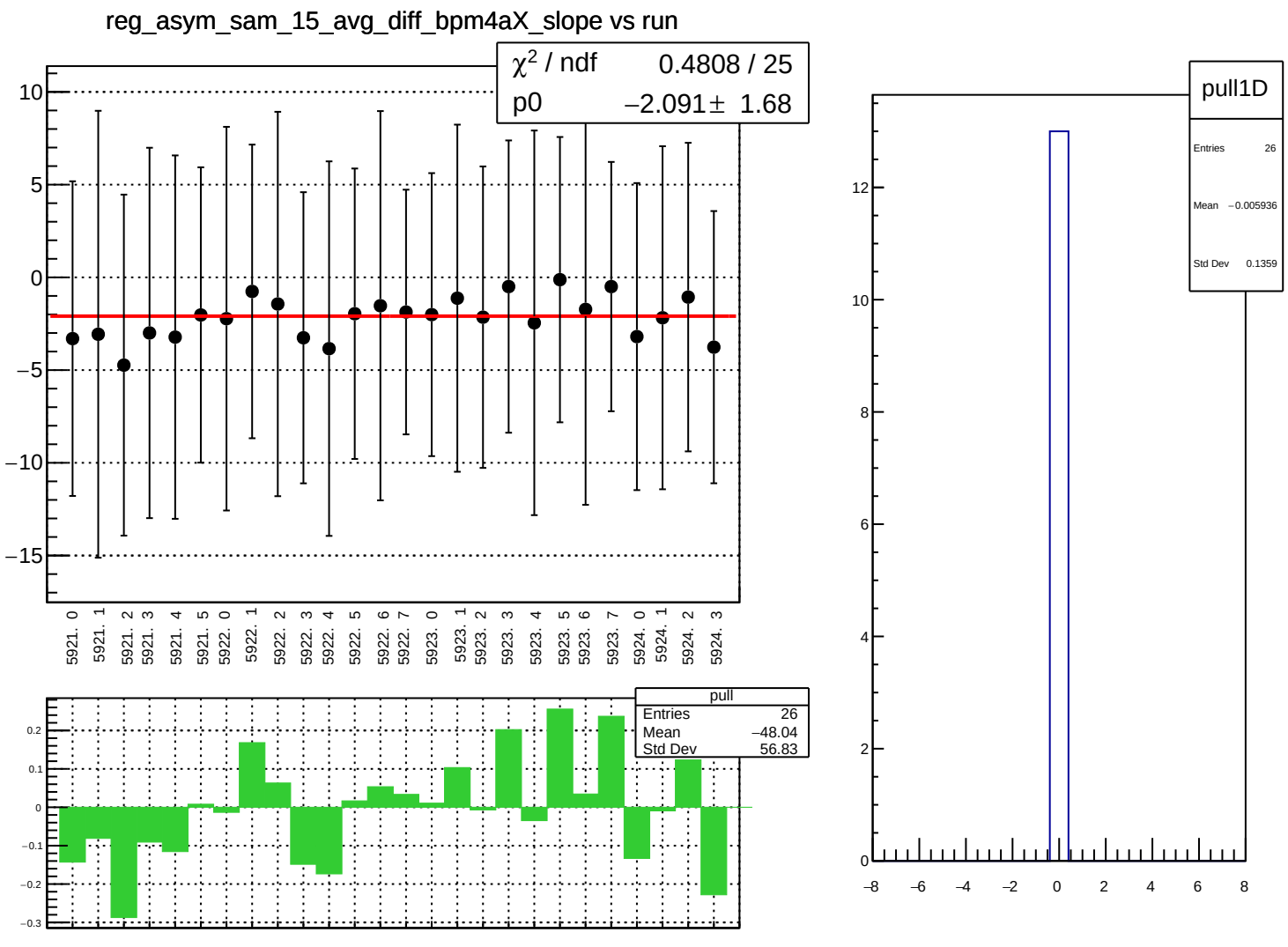

pull1D
Entries 26
Mean 0.01685
Std Dev 0.7256
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

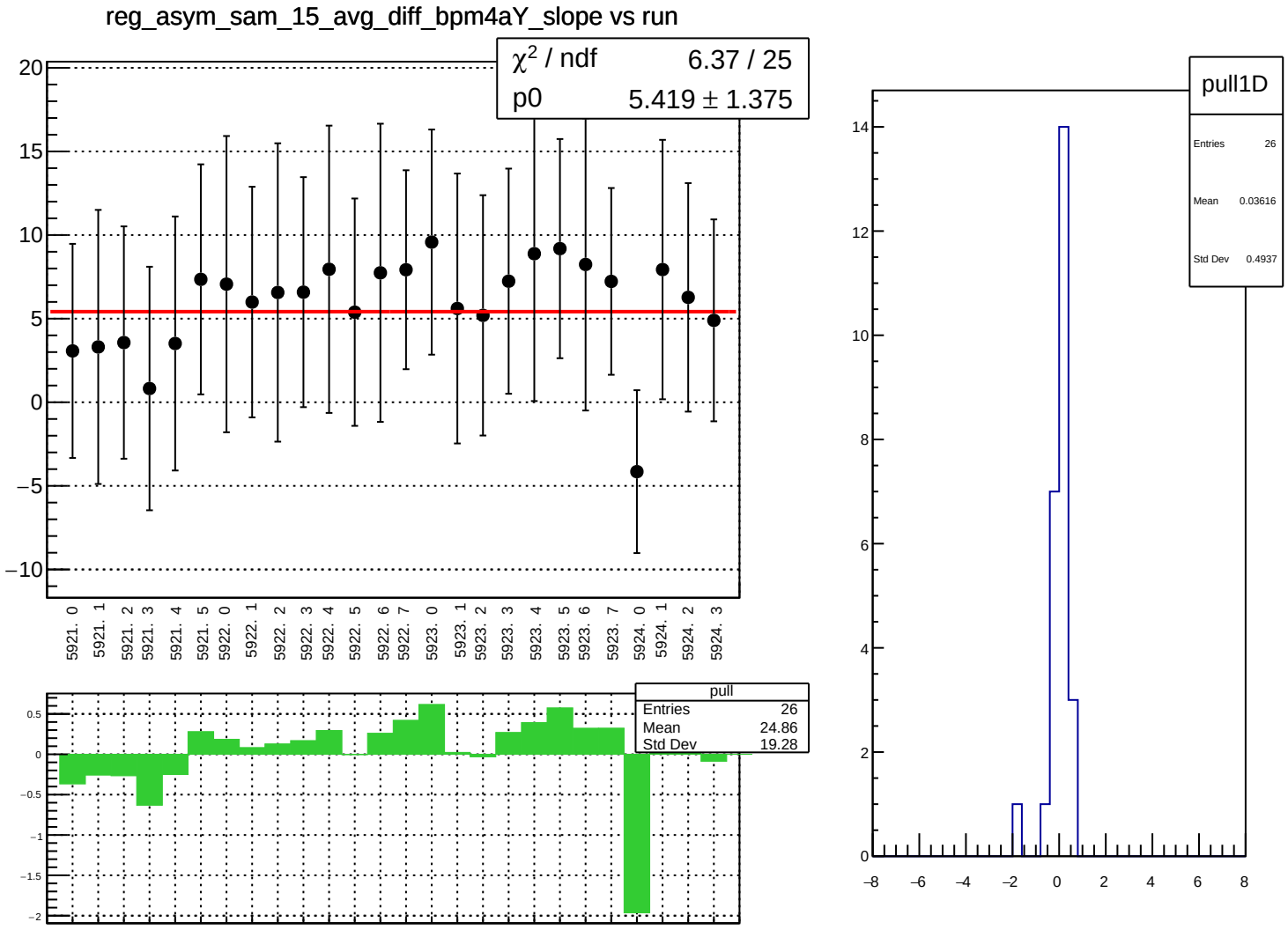

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.42 / 25
p0 85.18 ± 2.886
120
100
80
60
40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 19.72
Std Dev 33.91
1.5
1
0.5
0
−0.5
−1
−1.5

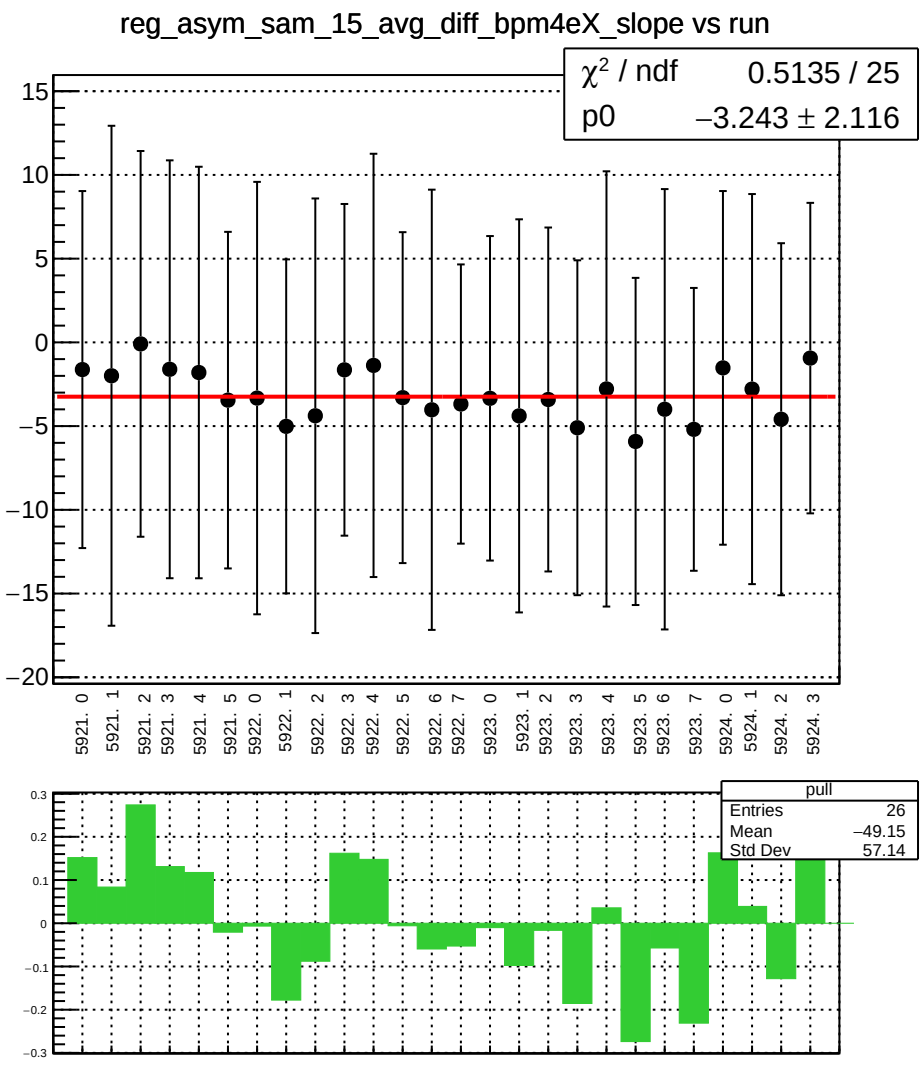

pull1D
Entries 26
Mean −0.003246
Std Dev 0.7446
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

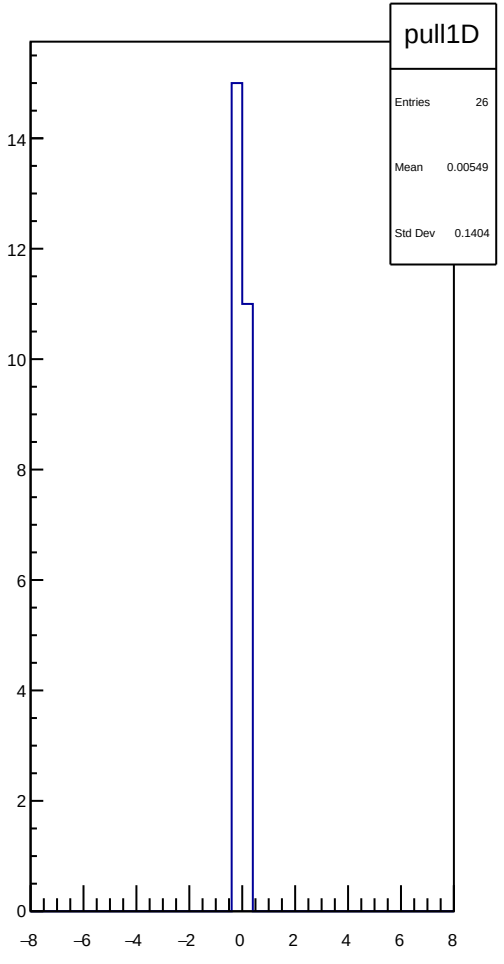

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.63 / 25
p0 0.9883 ± 2.061
30
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 90.85
Std Dev 84.29
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01965
Std Dev 0.7498
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

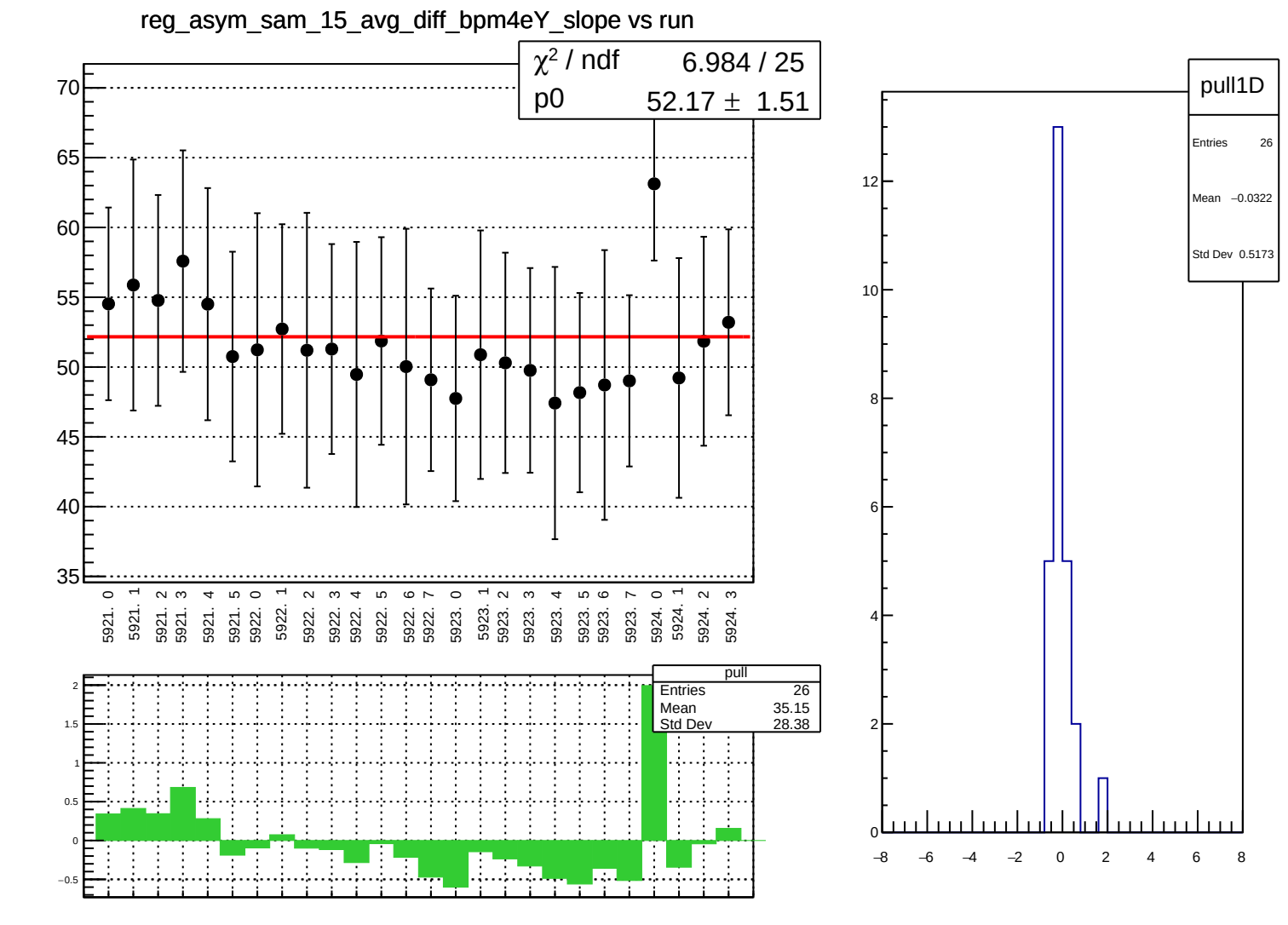

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 34.39 / 25
p0 −17.21 ± 0.1287
−15
−16
−17
−18
−19
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 87.48
Std Dev 67.68
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean −0.01773
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

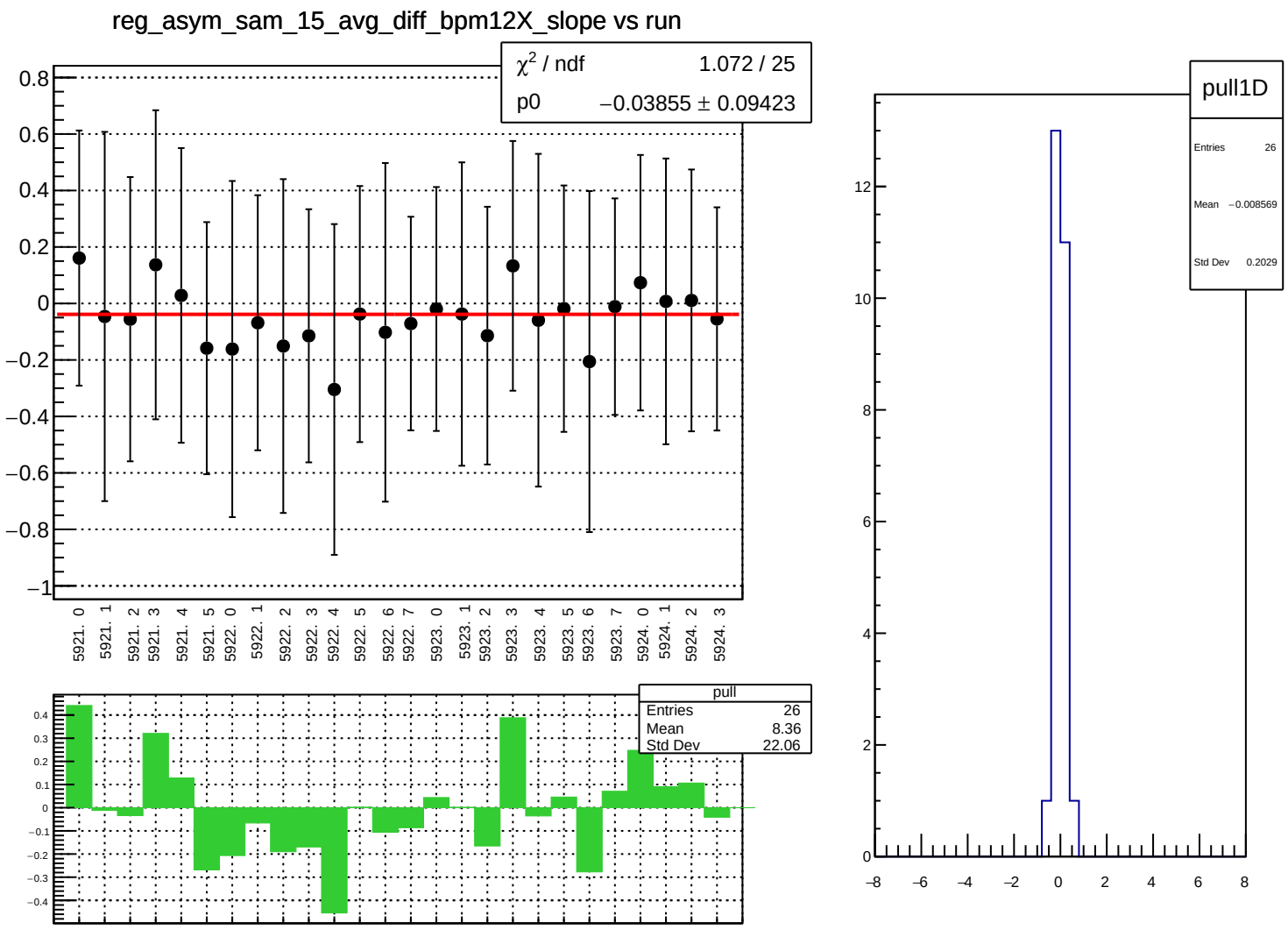

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.4808 / 25
p0 −2.091± 1.68
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −48.04
Std Dev 56.83
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.005936
Std Dev 0.1359
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

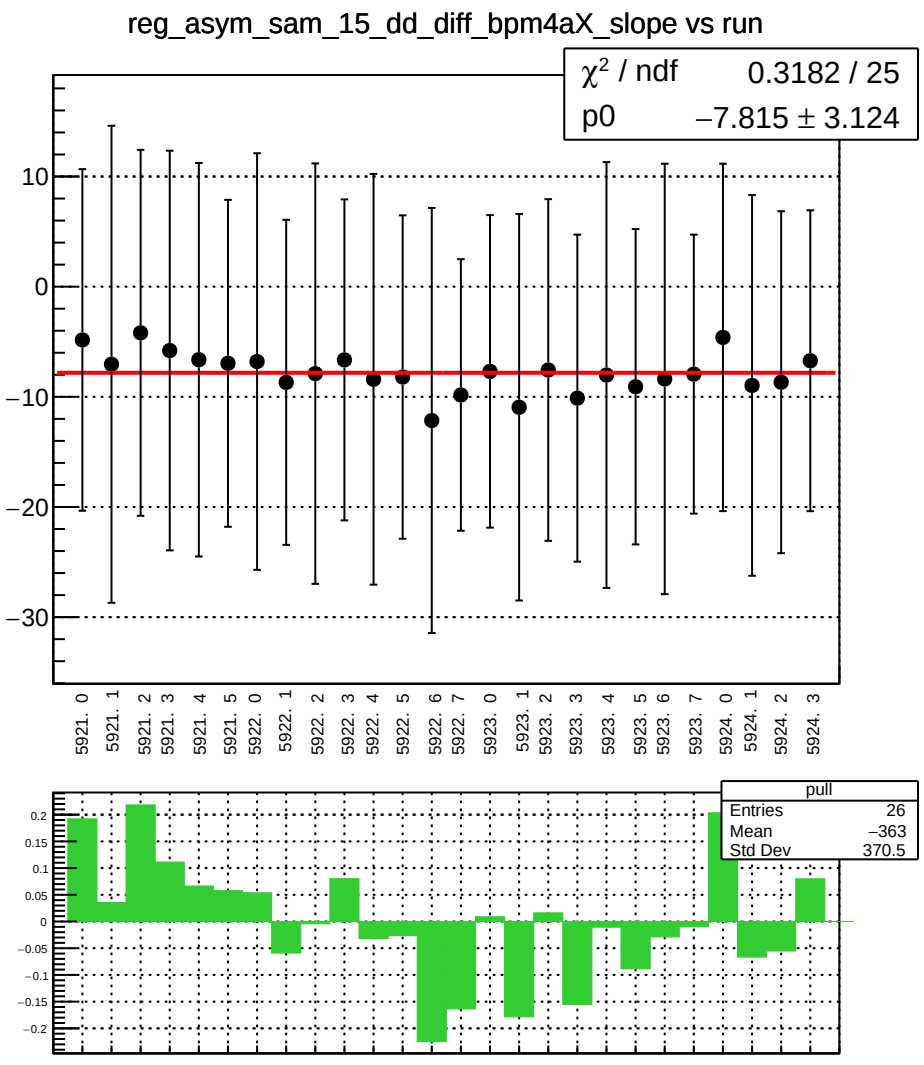

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.37 / 25
p0 5.419 ± 1.375
pull
Entries 26
Mean 24.86
Std Dev 19.28
pull1D
Entries 26
Mean 0.03616
Std Dev 0.4937

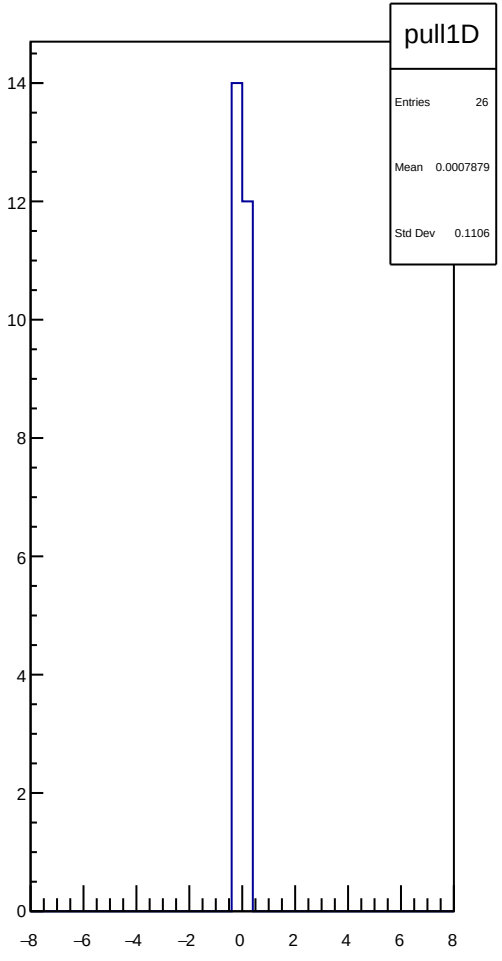

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.5135 / 25
p0 −3.243 ± 2.116
15
10
5
0
−5
−10
−15
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −49.15
Std Dev 57.14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

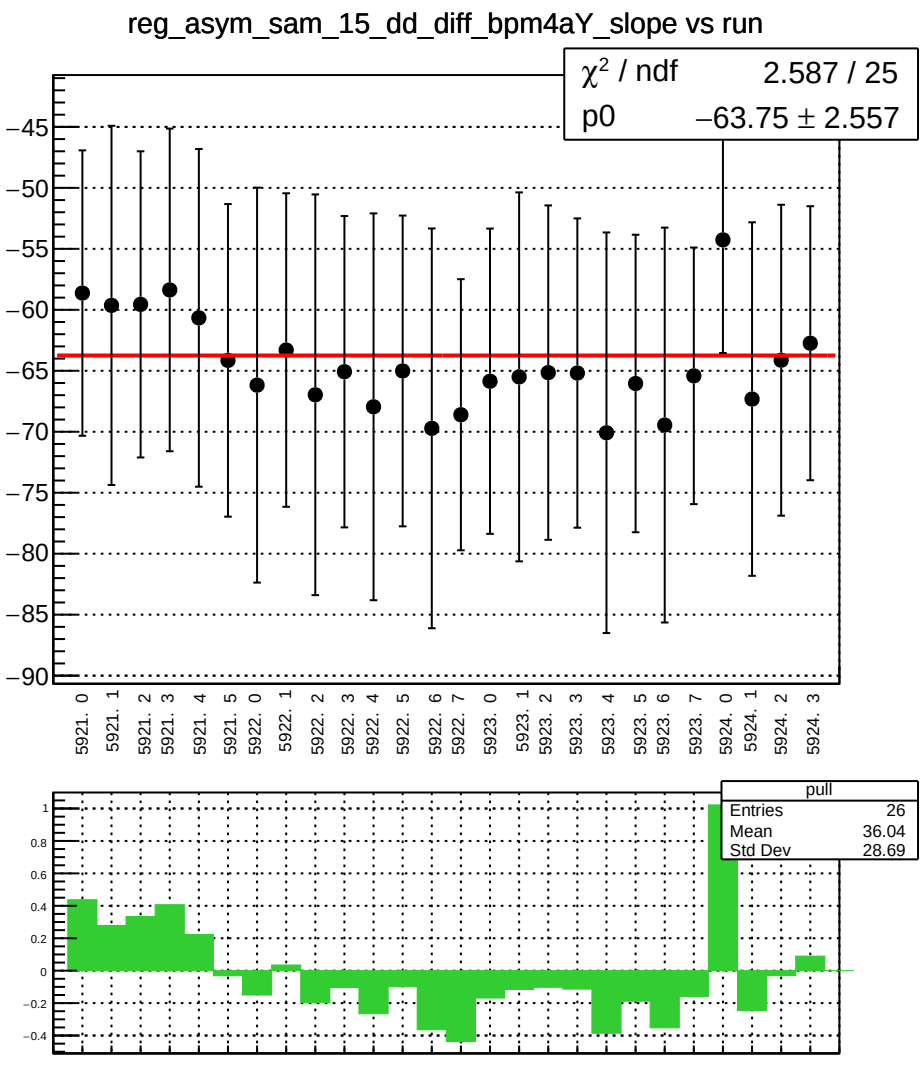

pull1D
Entries 26
Mean 0.00549
Std Dev 0.1404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

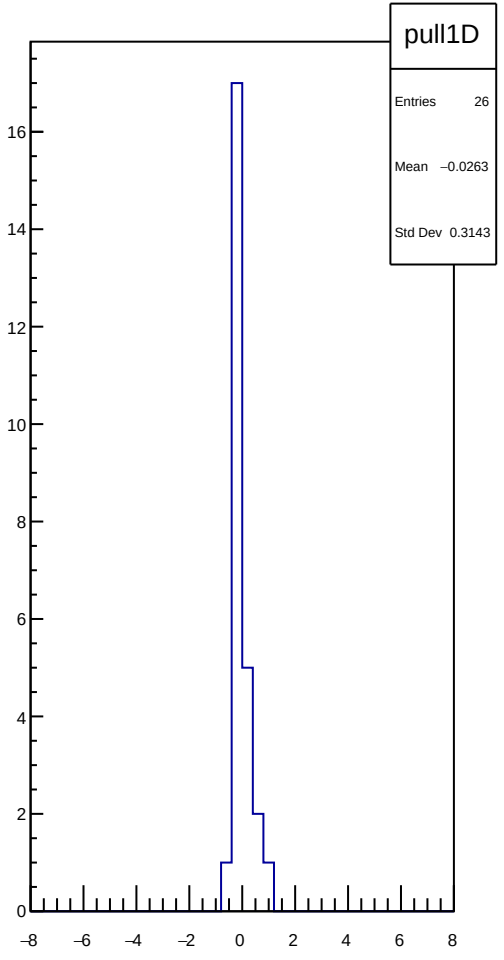

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.984 / 25
p0 52.17 ± 1.51
70
65
60
55
50
45
40
35
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 35.15
Std Dev 28.38
2
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.0322
Std Dev 0.5173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

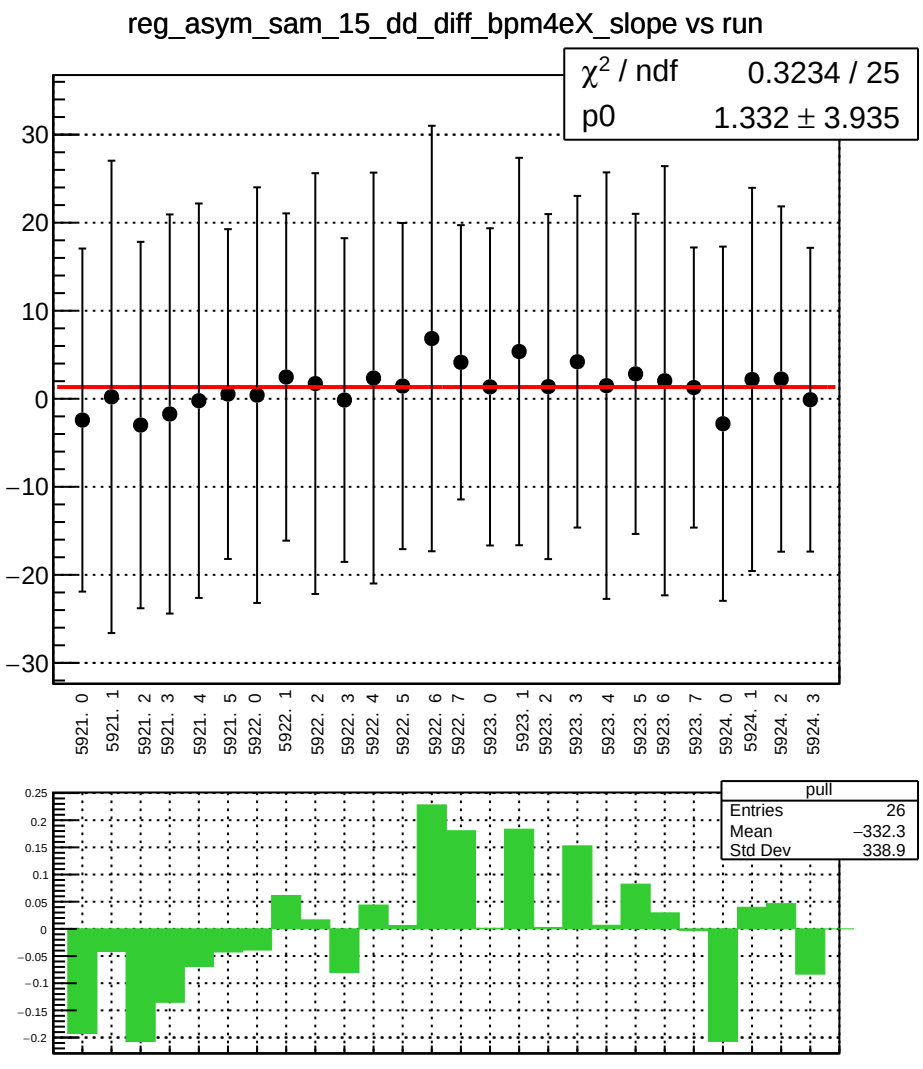

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1.072 / 25
p0 −0.03855 ± 0.09423
pull
Entries 26
Mean 8.36
Std Dev 22.06
pull1D
Entries 26
Mean −0.008569
Std Dev 0.2029

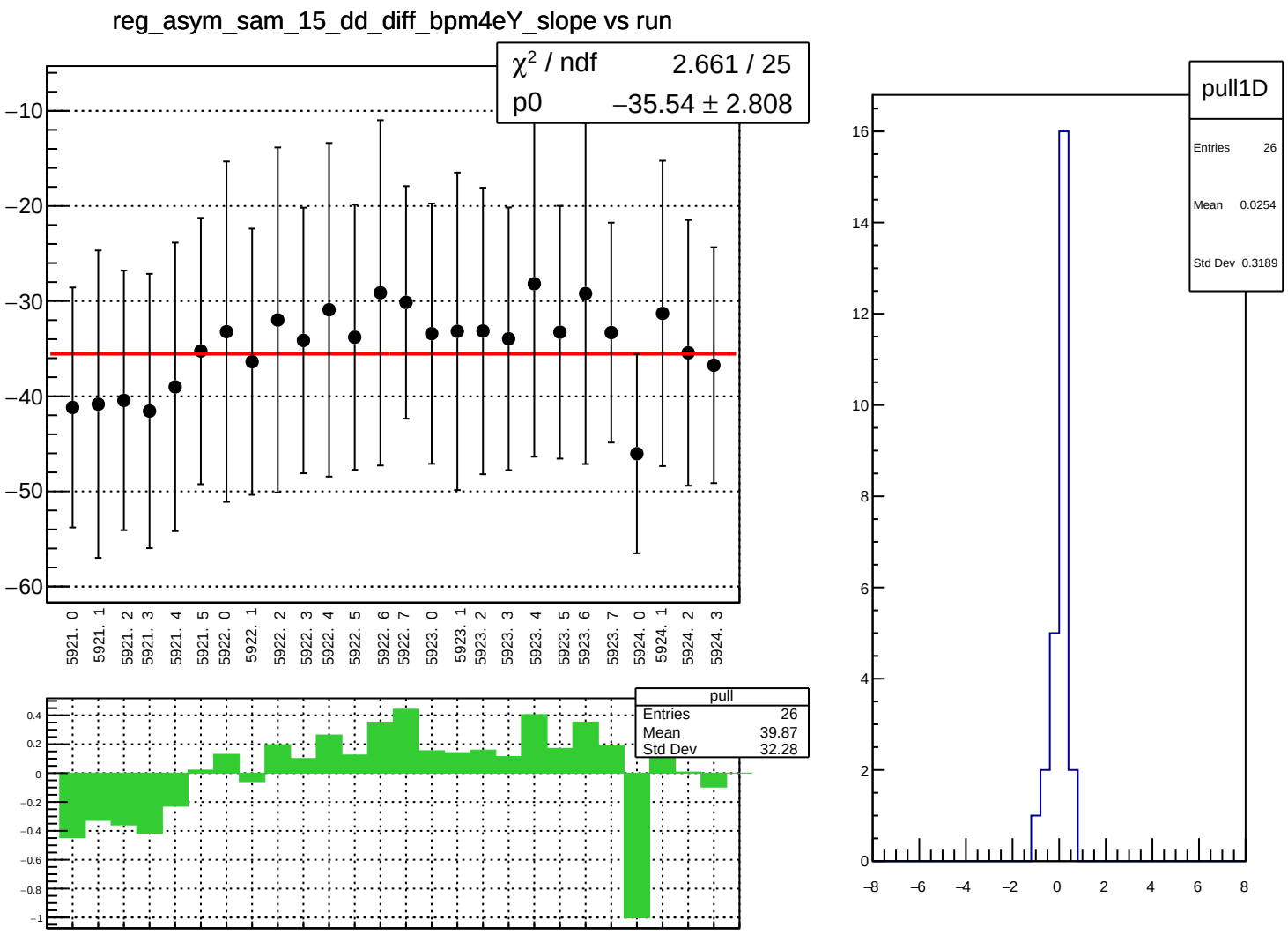

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3182 / 25
p0 −7.815 ± 3.124
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −363
Std Dev 370.5
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

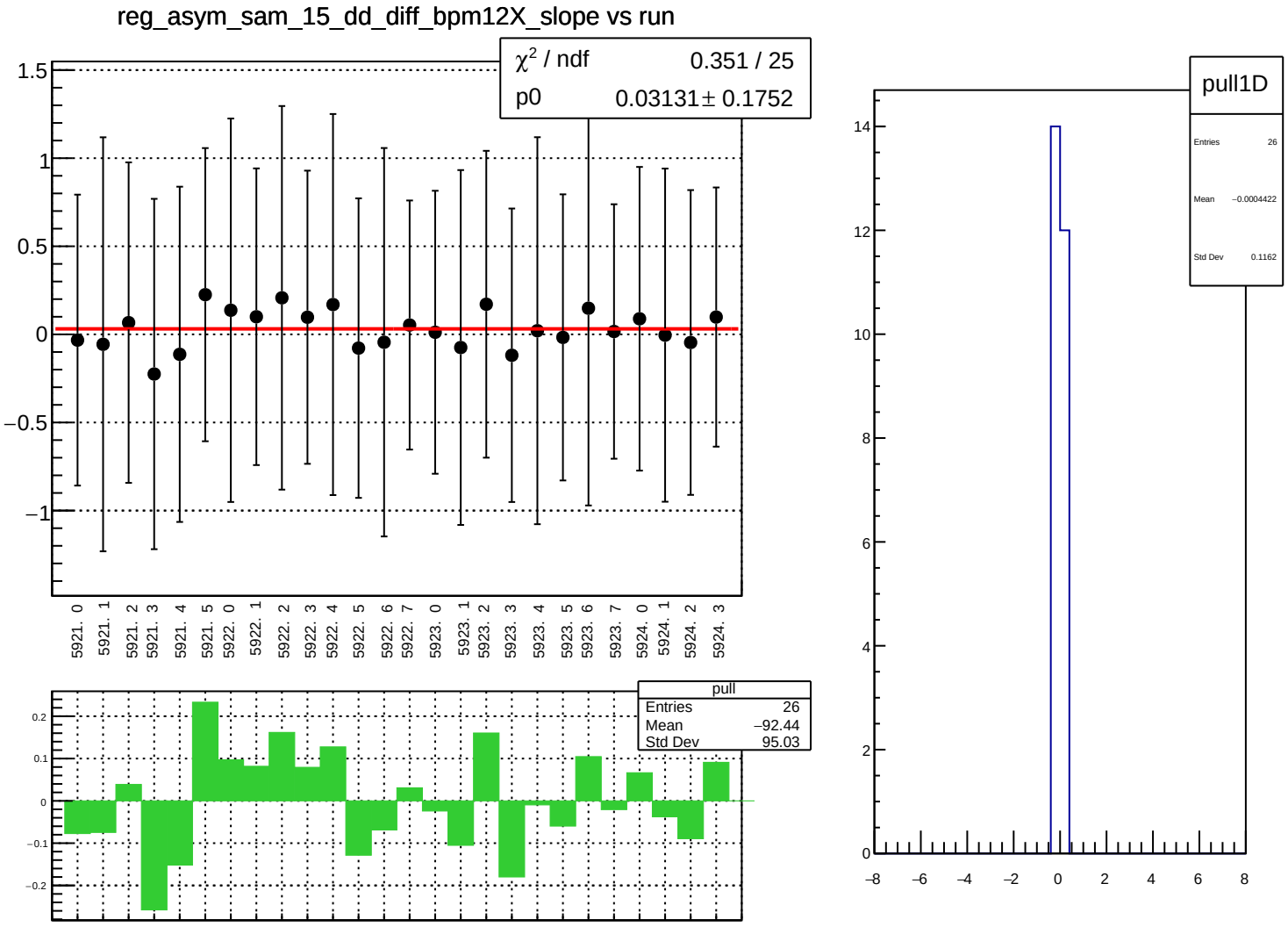

pull1D
Entries 26
Mean 0.0007879
Std Dev 0.1106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

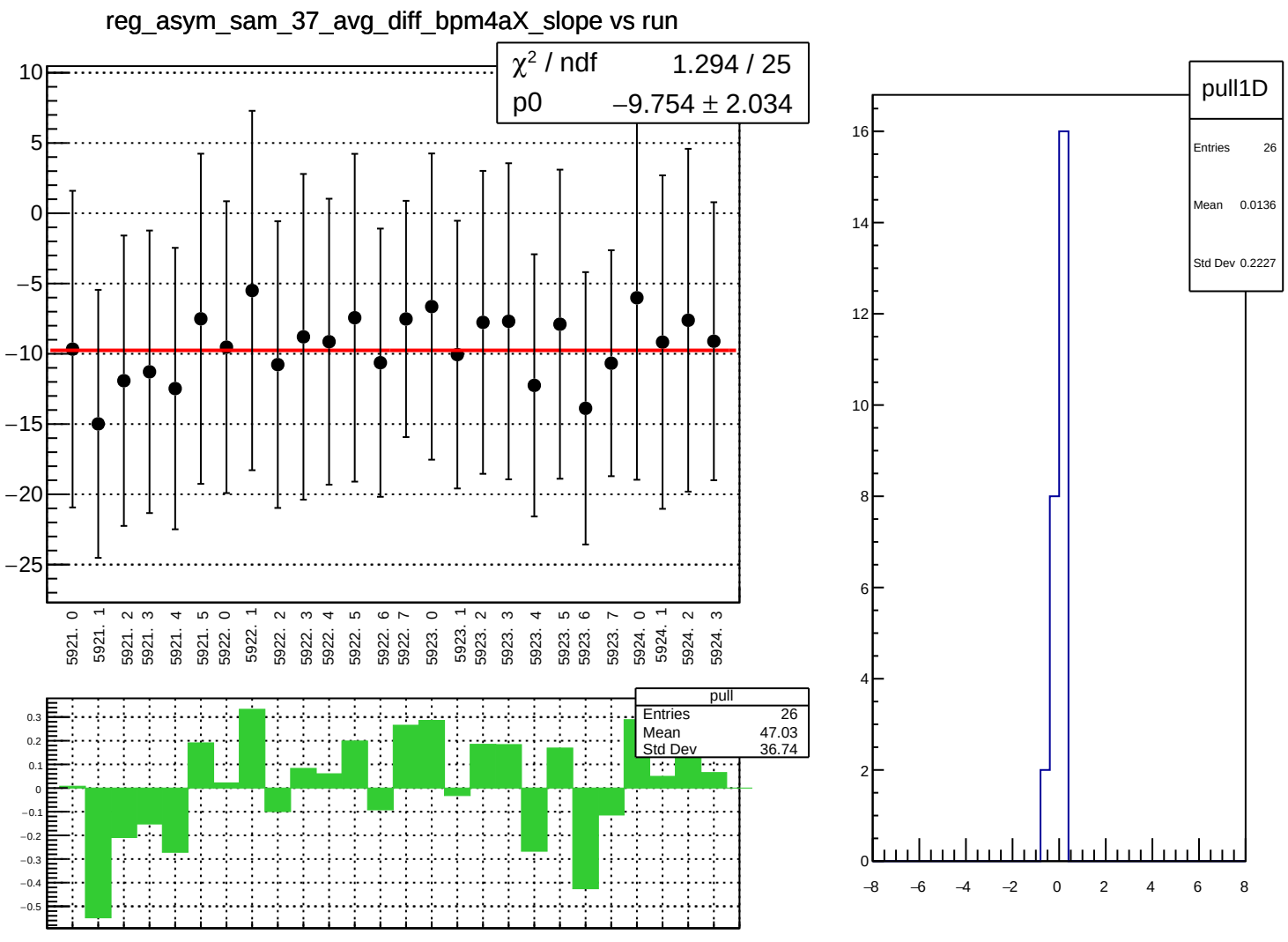

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.587 / 25
p0 −63.75 ± 2.557
−45
−50
−55
−60
−65
−70
−75
−80
−85
−90
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 36.04
Std Dev 28.69
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

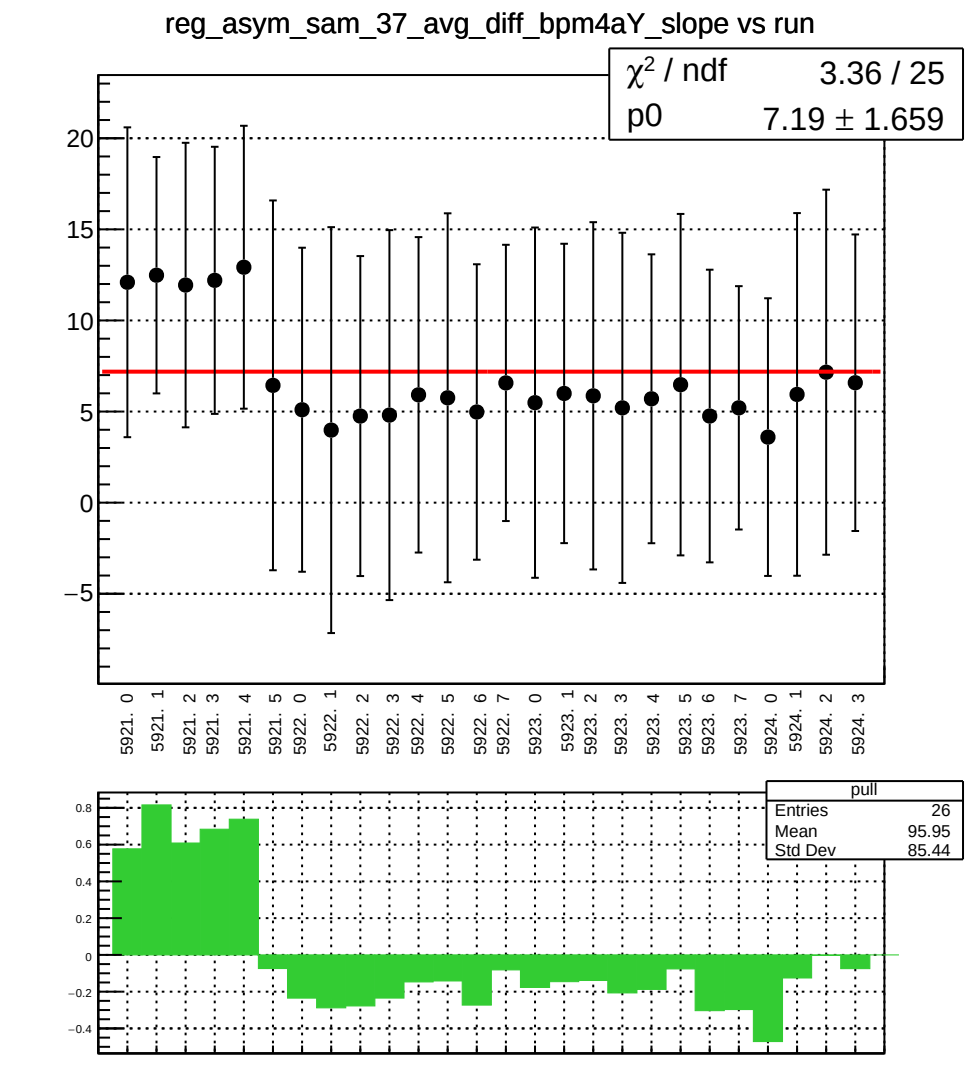

pull1D
Entries 26
Mean −0.0263
Std Dev 0.3143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

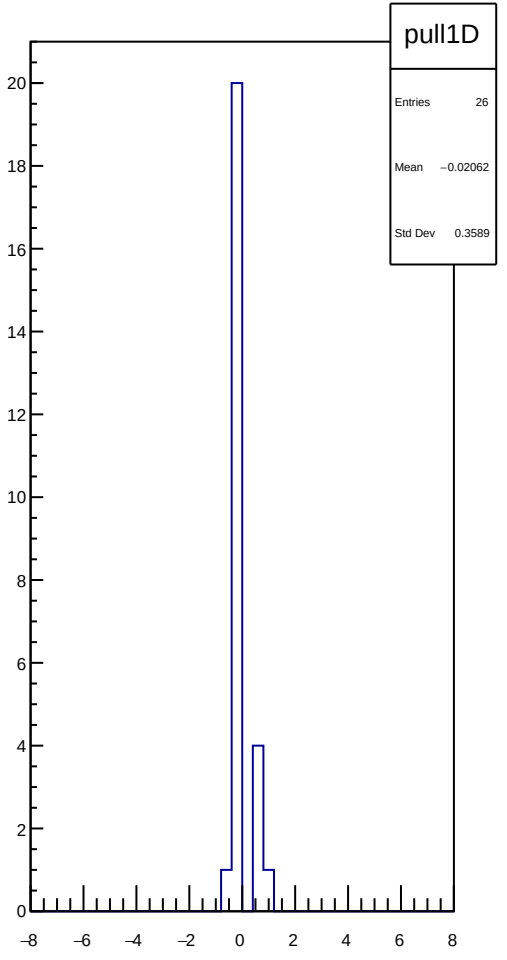

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3234 / 25
p0 1.332 ± 3.935
30
20
10
0
−10
−20
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −332.3
Std Dev 338.9
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 26
Mean −0.0007903
Std Dev 0.1115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

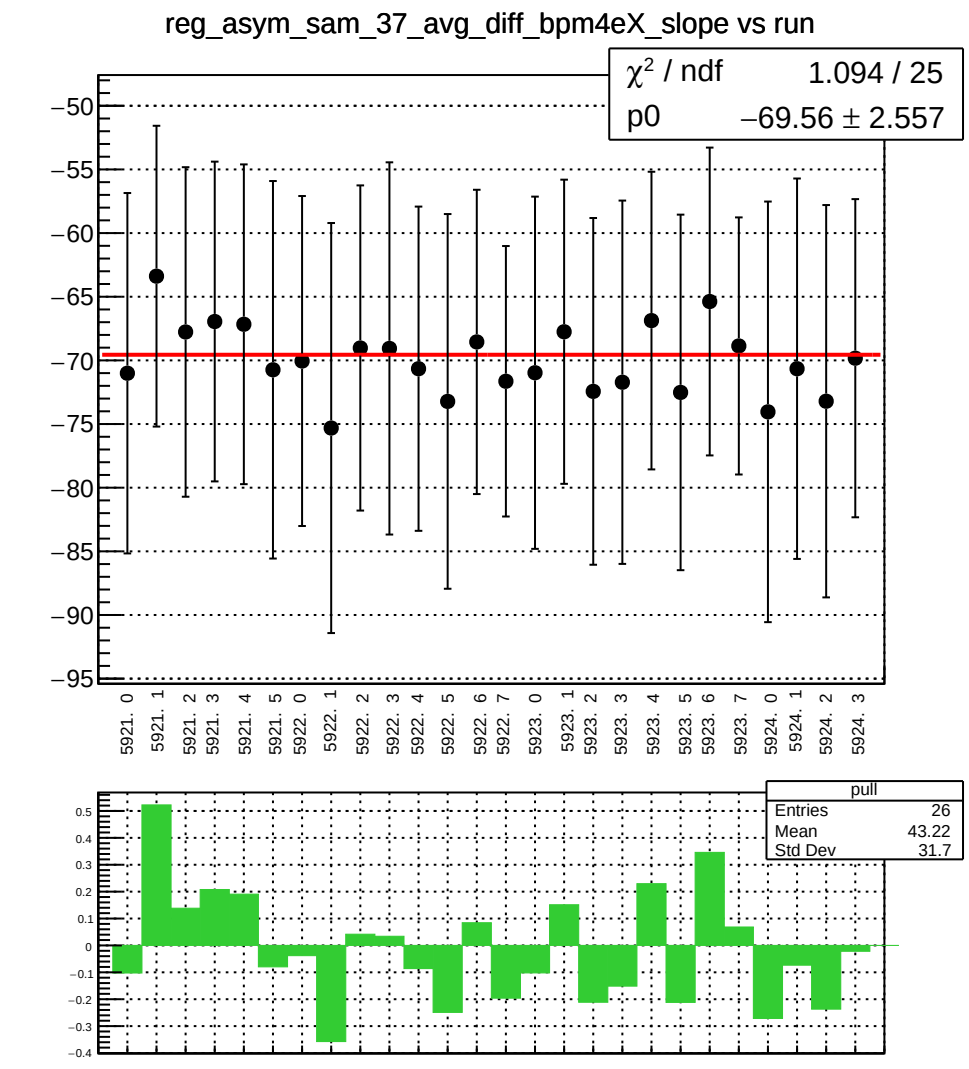

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.661 / 25
p0 −35.54 ± 2.808
−10
−20
−30
−40
−50
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 39.87
Std Dev 32.28
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.0254
Std Dev 0.3189
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

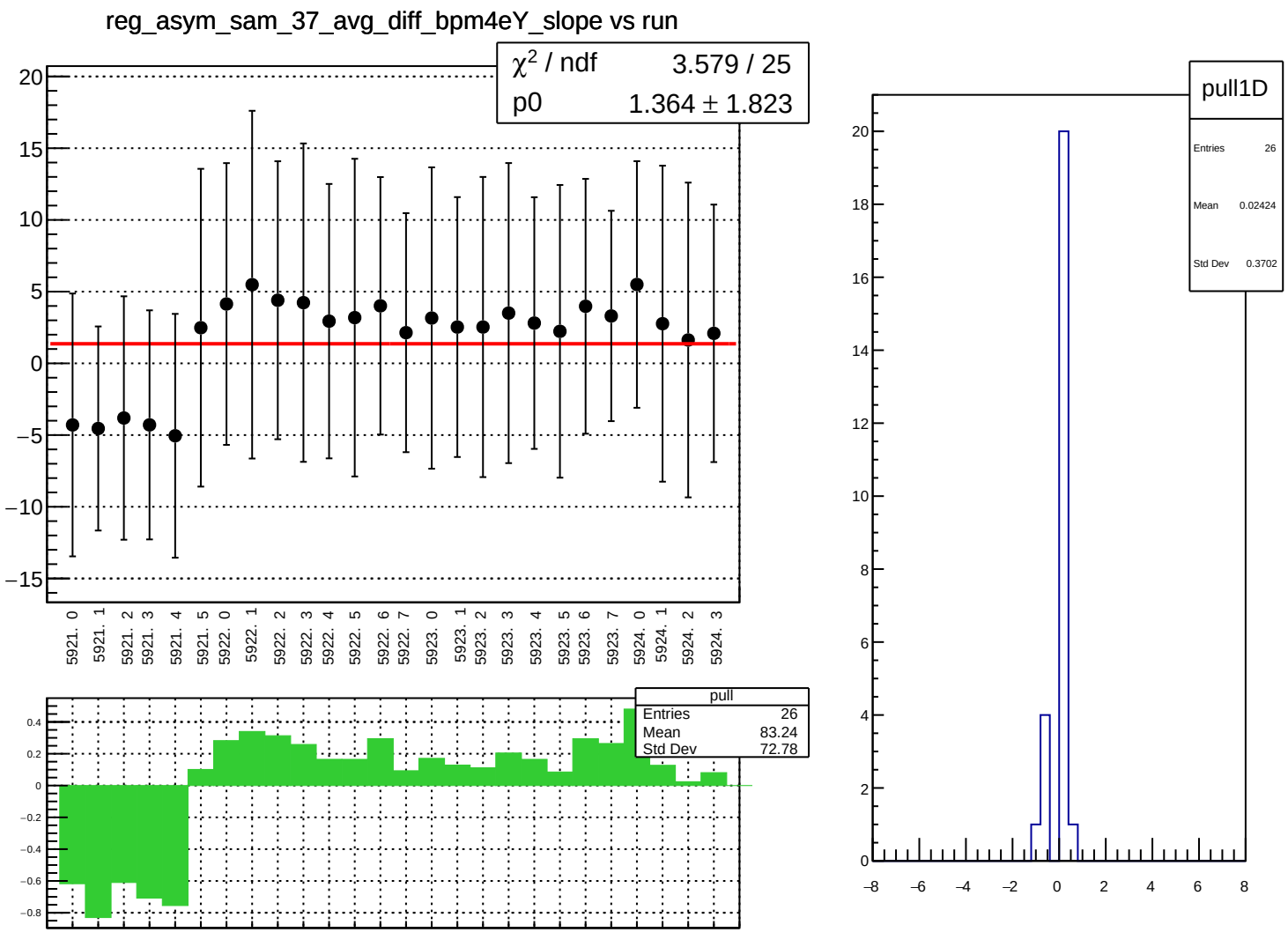

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.351 / 25
p0 0.03131 ± 0.1752
1.5
1
0.5
0
−0.5
−1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −92.44
Std Dev 95.03
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.0004422
Std Dev 0.1162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

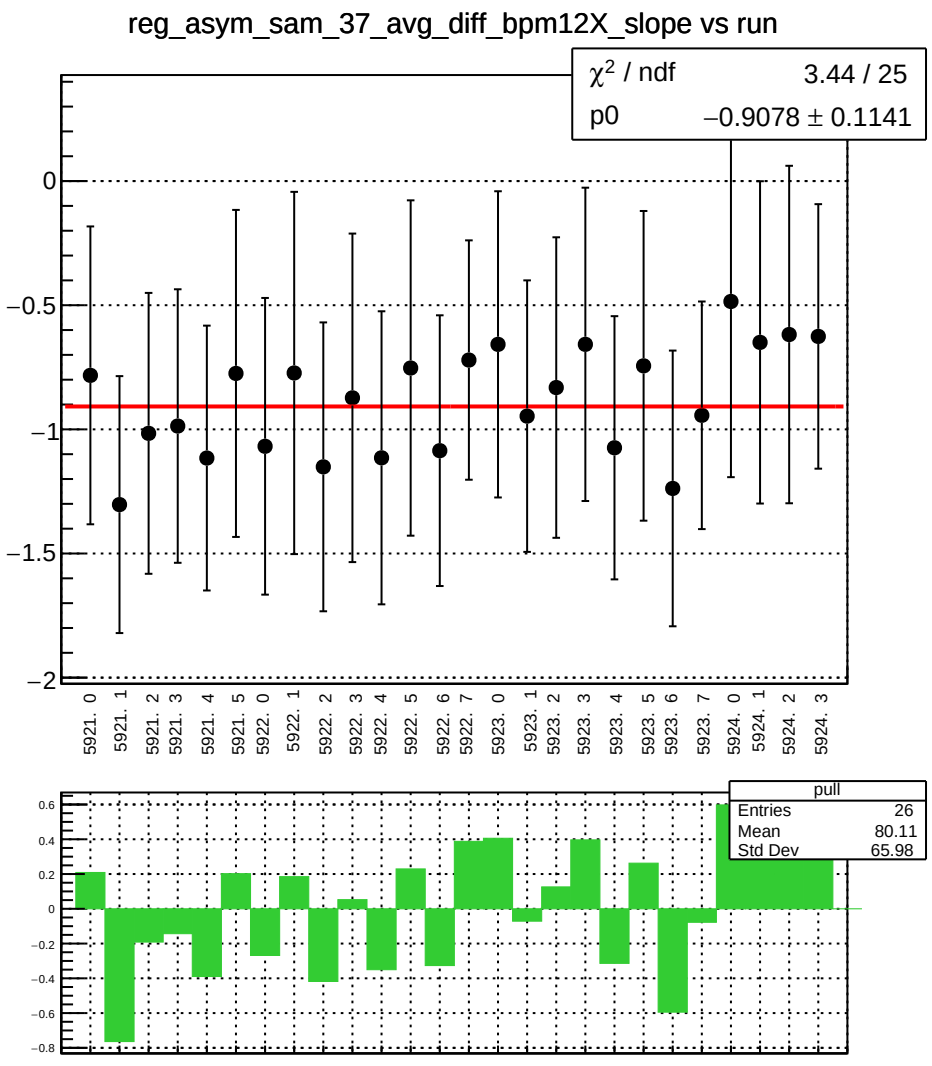

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.294 / 25
p0 −9.754 ± 2.034
pull
Entries 26
Mean 47.03
Std Dev 36.74
pull1D
Entries 26
Mean 0.0136
Std Dev 0.2227

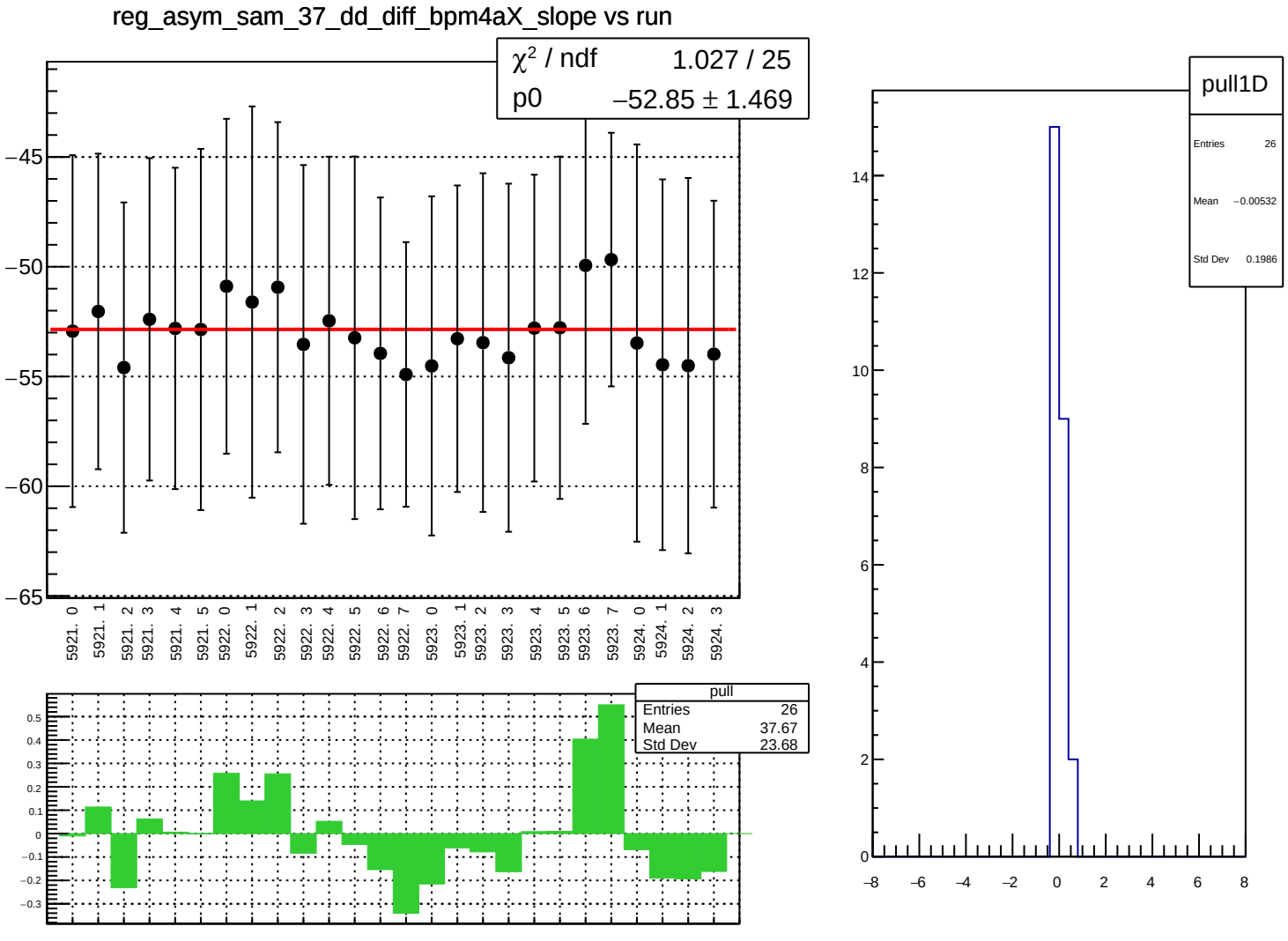

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.36 / 25
p0 7.19 ± 1.659
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 95.95
Std Dev 85.44
0.8
0.6
0.4
0.2
0
−0.2
−0.4

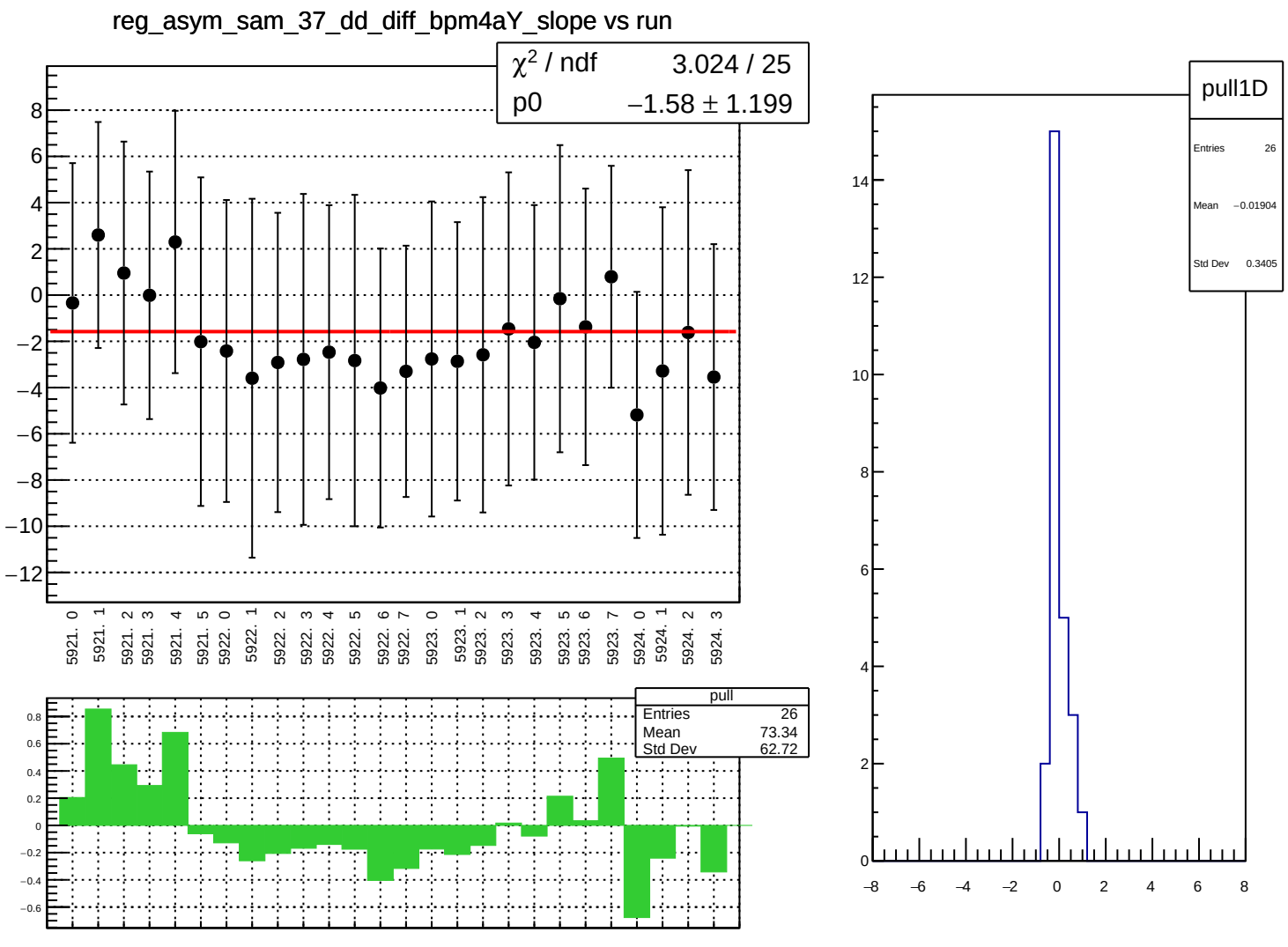

pull1D
Entries 26
Mean −0.02062
Std Dev 0.3589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

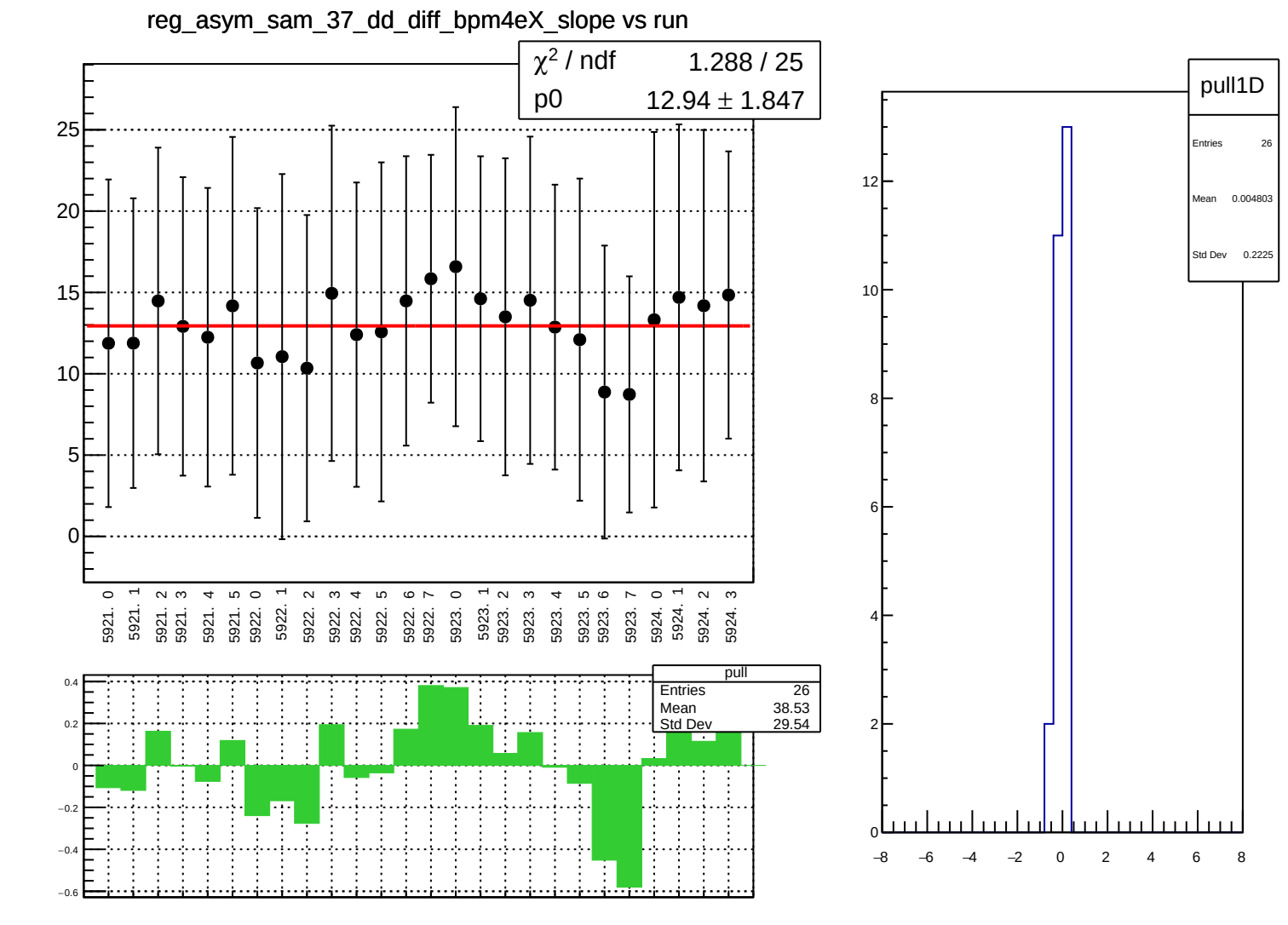

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.094 / 25
p0 −69.56 ± 2.557
−50
−55
−60
−65
−70
−75
−80
−85
−90
−95
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 43.22
Std Dev 31.7
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean −0.01438
Std Dev 0.2046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

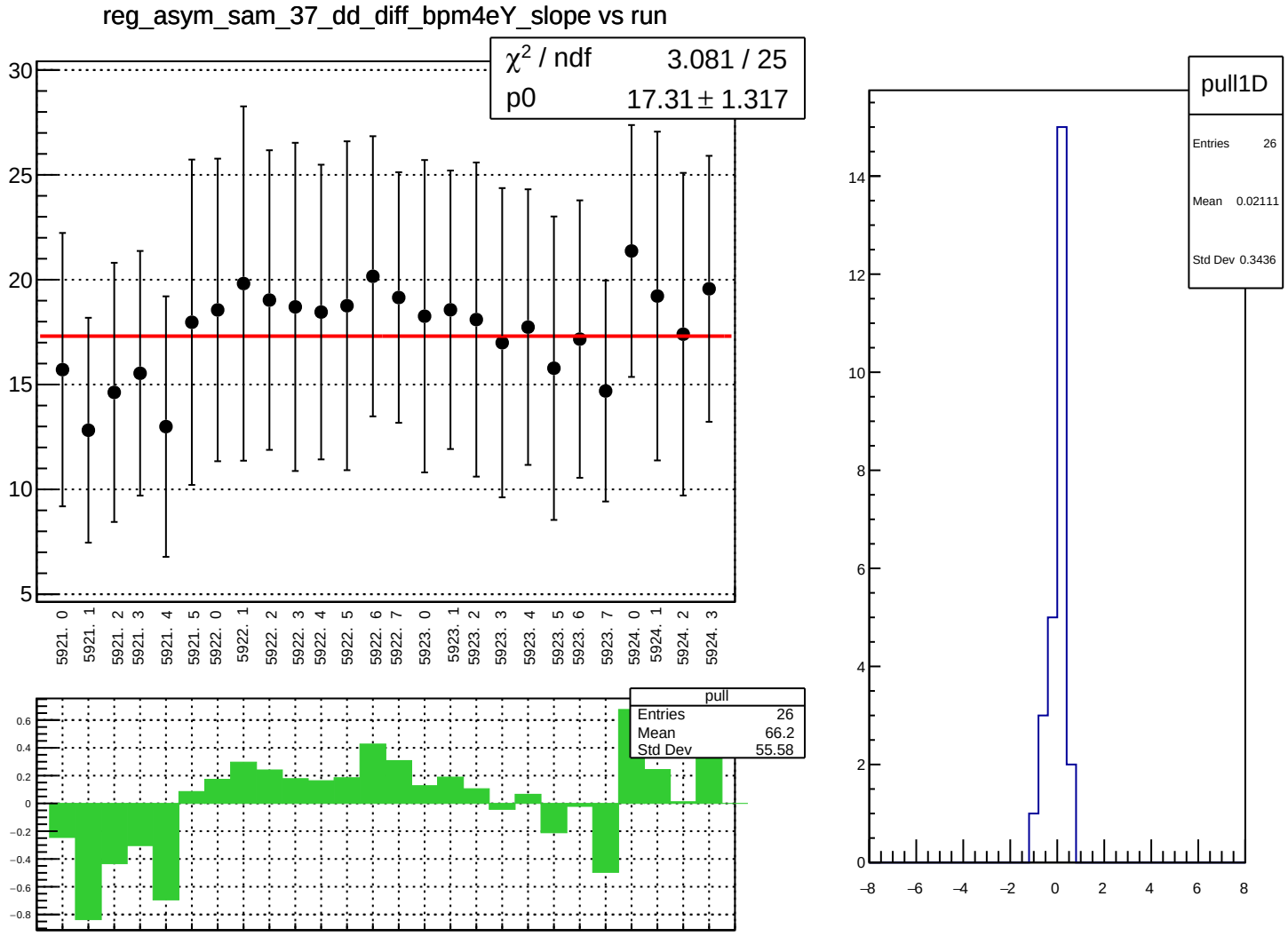

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.579 / 25
p0 1.364 ± 1.823
pull
Entries 26
Mean 83.24
Std Dev 72.78
pull1D
Entries 26
Mean 0.02424
Std Dev 0.3702

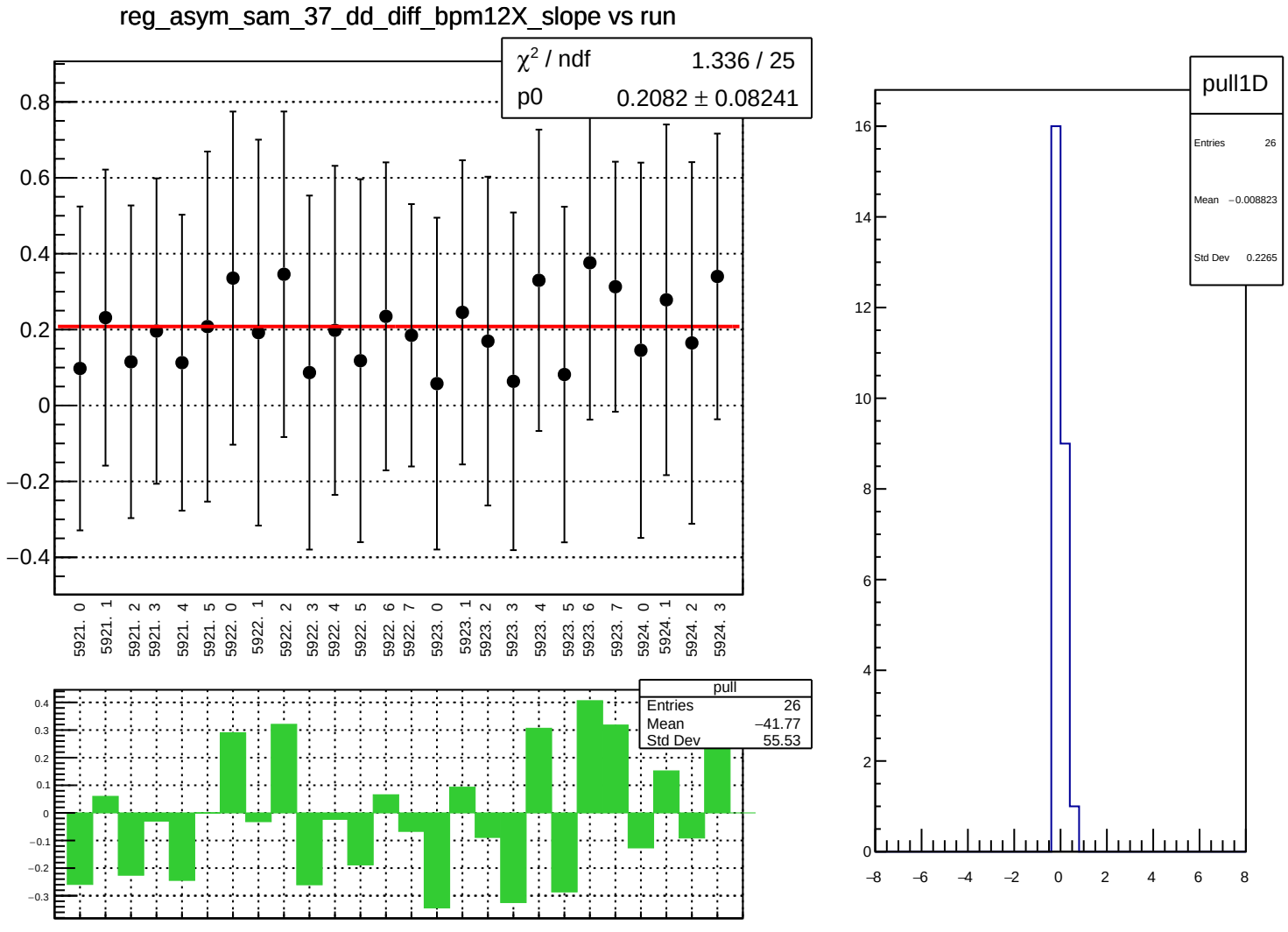

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.44 / 25
p0 −0.9078 ± 0.1141
0
−0.5
−1
−1.5
−2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 80.11
Std Dev 65.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.01923
Std Dev 0.3632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

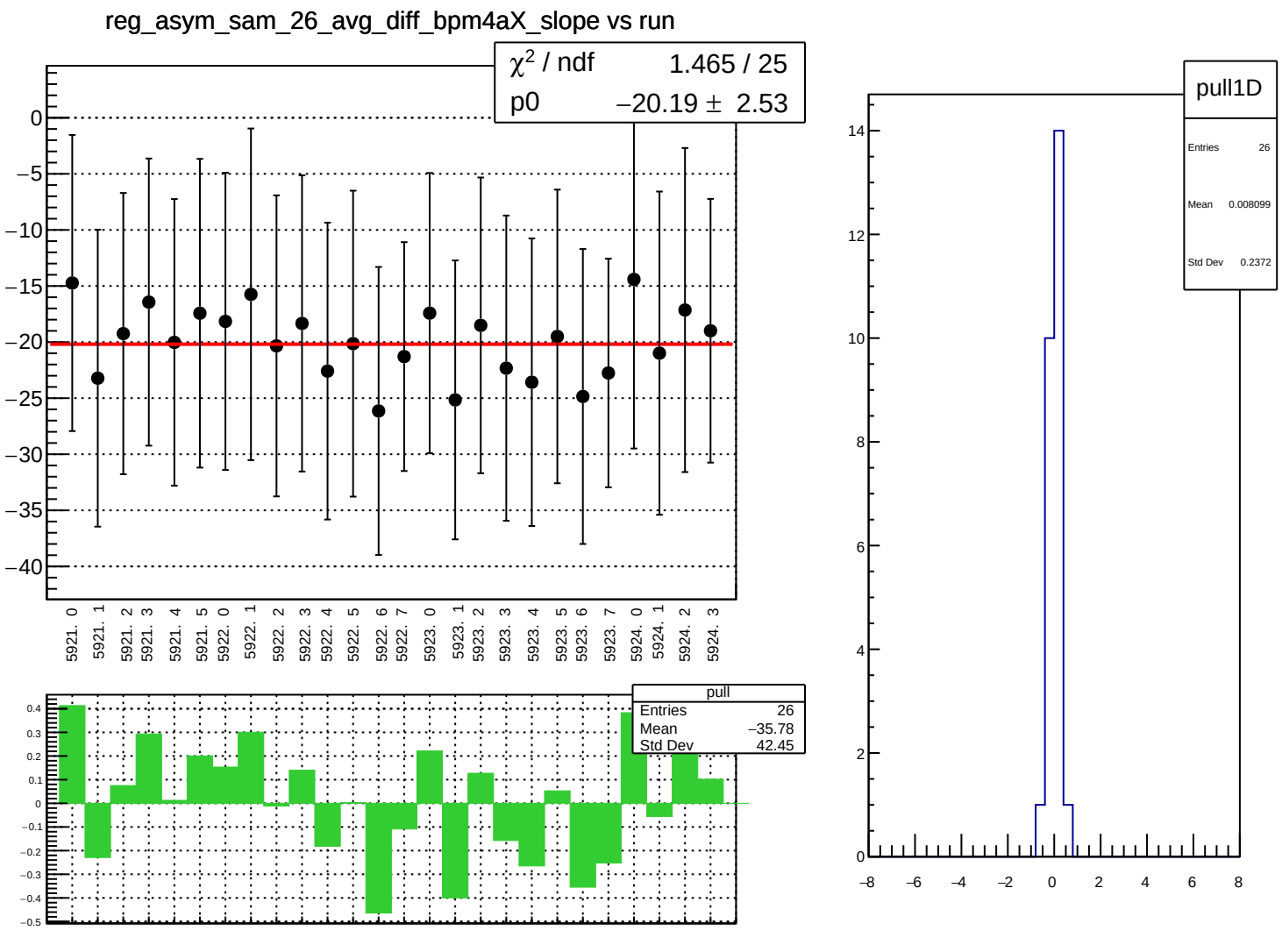

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.027 / 25
p0 −52.85 ± 1.469
−45
−50
−55
−60
−65
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 37.67
Std Dev 23.68
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.00532
Std Dev 0.1986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

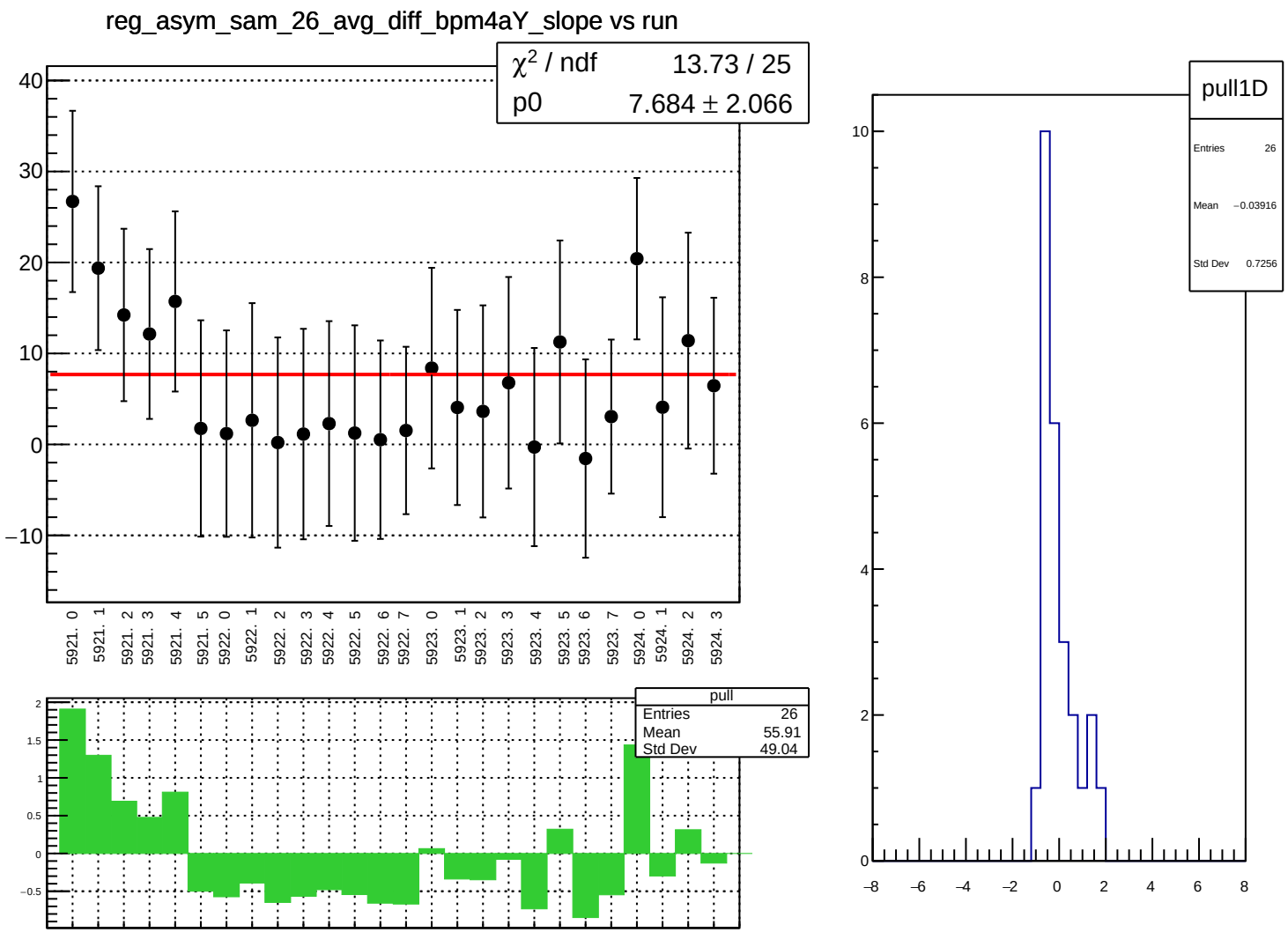

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.024 / 25
p0 −1.58 ± 1.199
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 73.34
Std Dev 62.72
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.01904
Std Dev 0.3405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

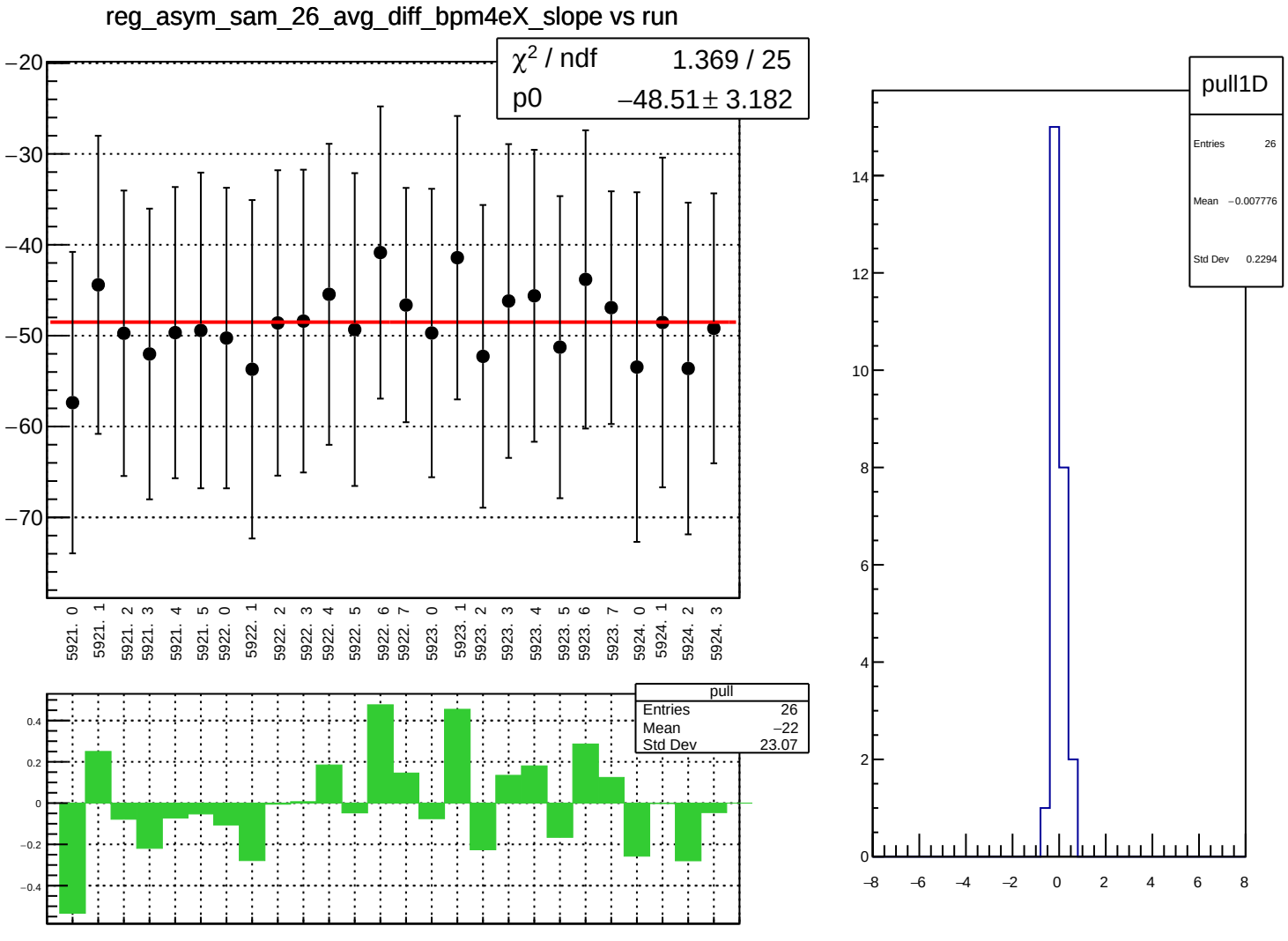

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.288 / 25
p0 12.94 ± 1.847
25
20
15
10
5
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 38.53
Std Dev 29.54
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.004803
Std Dev 0.2225
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

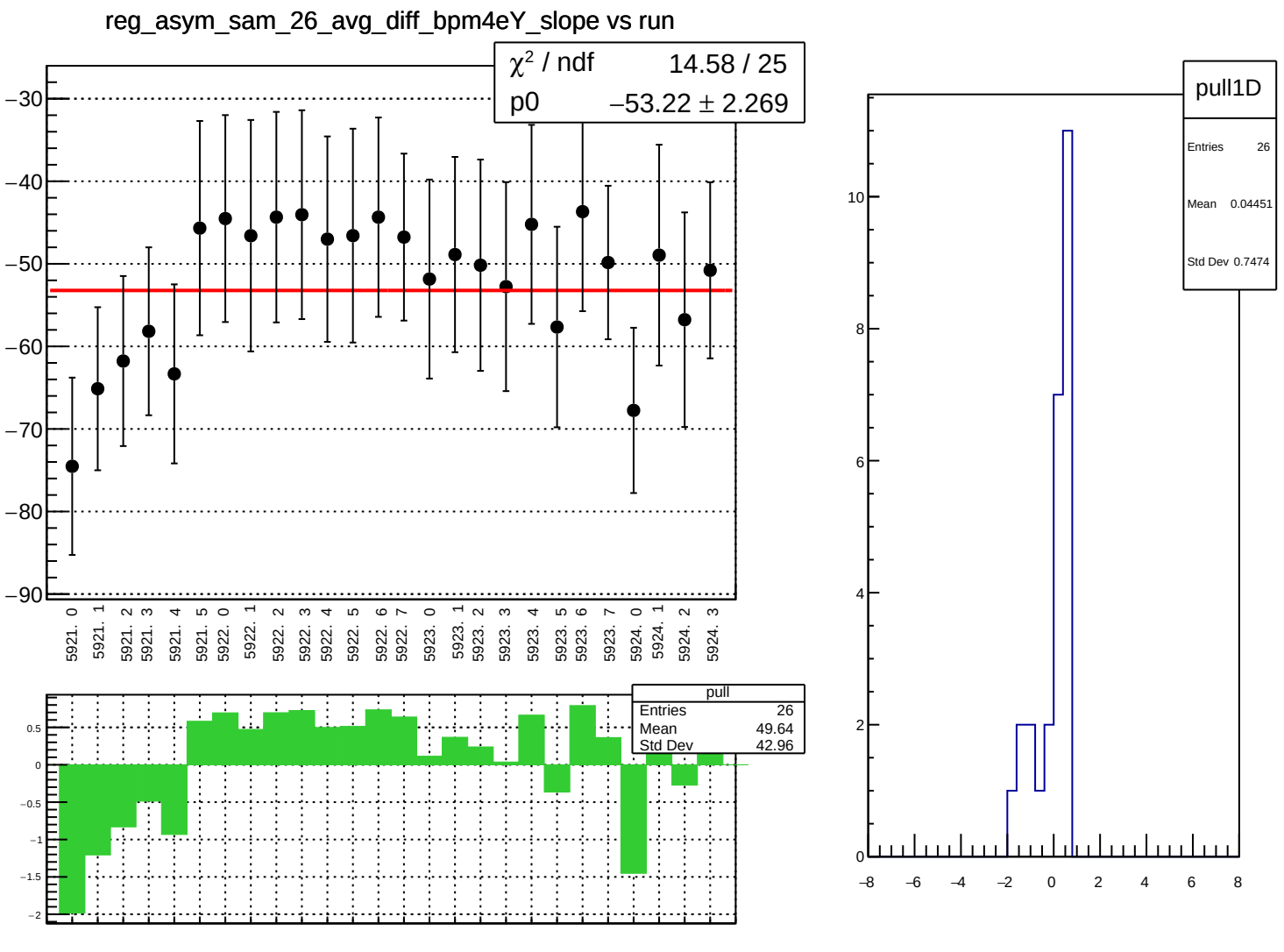

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.081 / 25
p0 17.31 ± 1.317
30
25
20
15
10
5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 66.2
Std Dev 55.58
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.02111
Std Dev 0.3436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

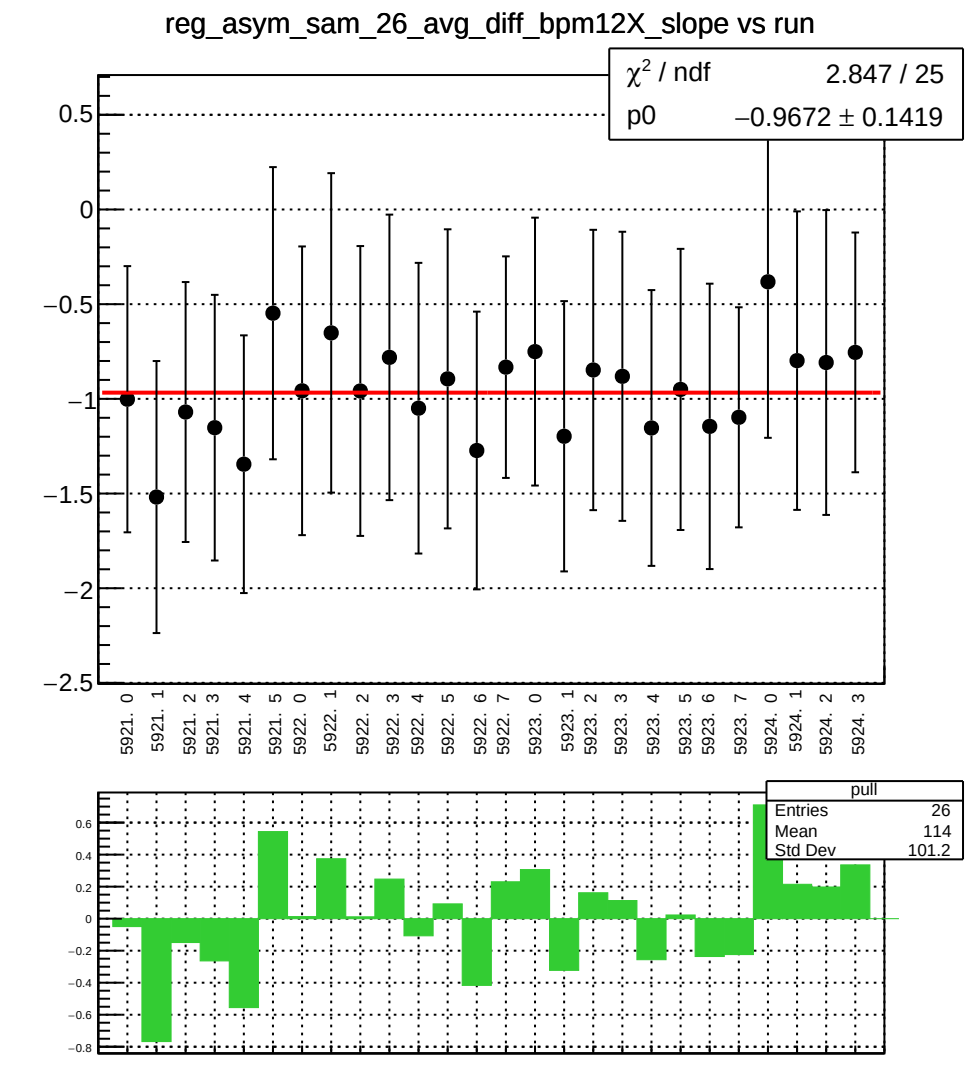

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.336 / 25
p0 0.2082 ± 0.08241
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −41.77
Std Dev 55.53
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.008823
Std Dev 0.2265
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

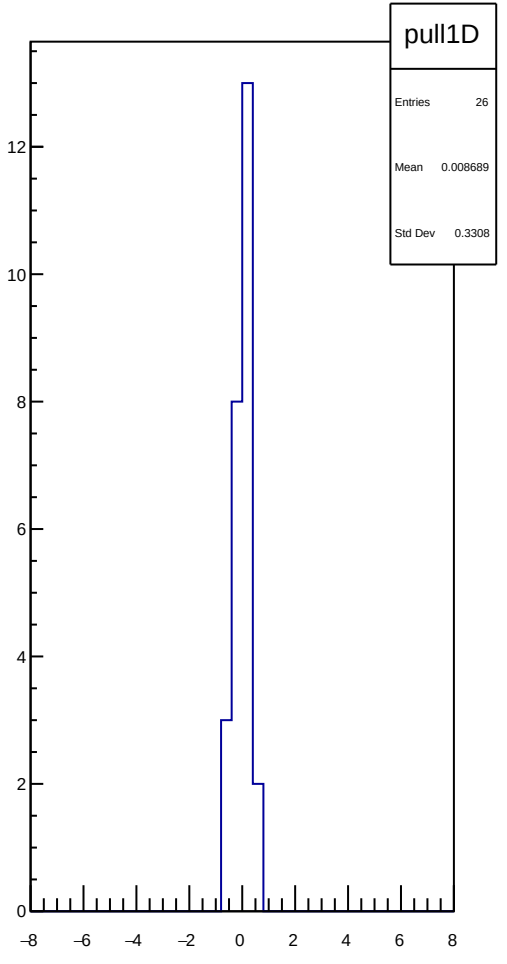

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.465 / 25
p0 −20.19 ± 2.53
0
−5
−10
−15
−20
−25
−30
−35
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −35.78
Std Dev 42.45
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 26
Mean 0.008099
Std Dev 0.2372
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

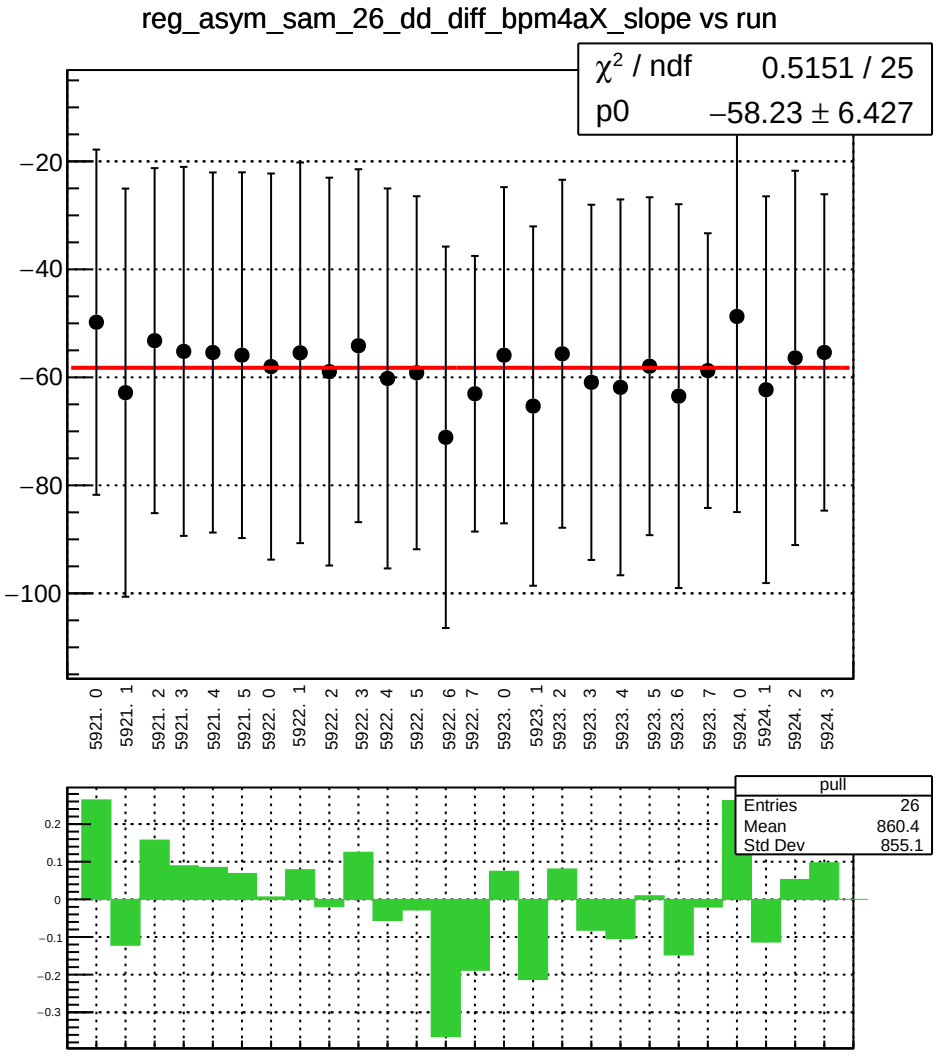

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.73 / 25
p0 7.684 ± 2.066
40
30
20
10
0
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 55.91
Std Dev 49.04
2
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.03916
Std Dev 0.7256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

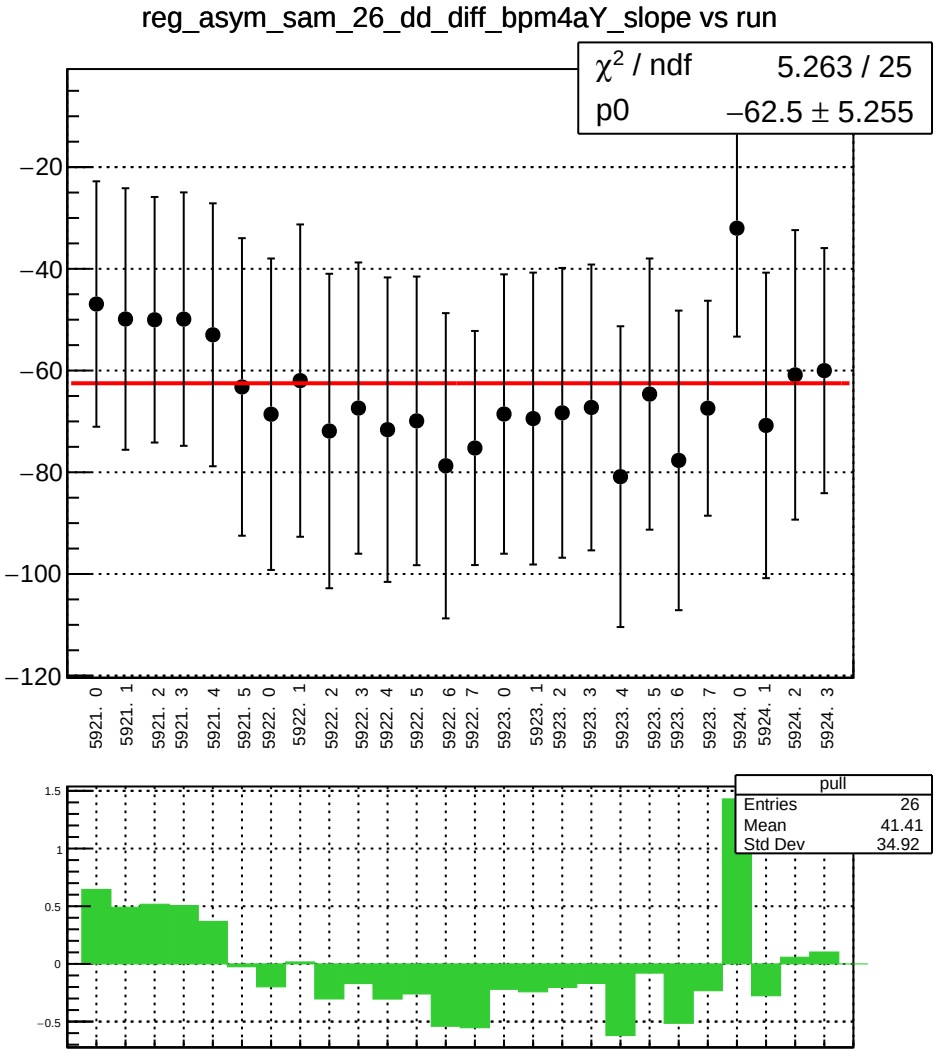

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.369 / 25
p0 −48.51 ± 3.182
−20
−30
−40
−50
−60
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −22
Std Dev 23.07
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.007776
Std Dev 0.2294
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

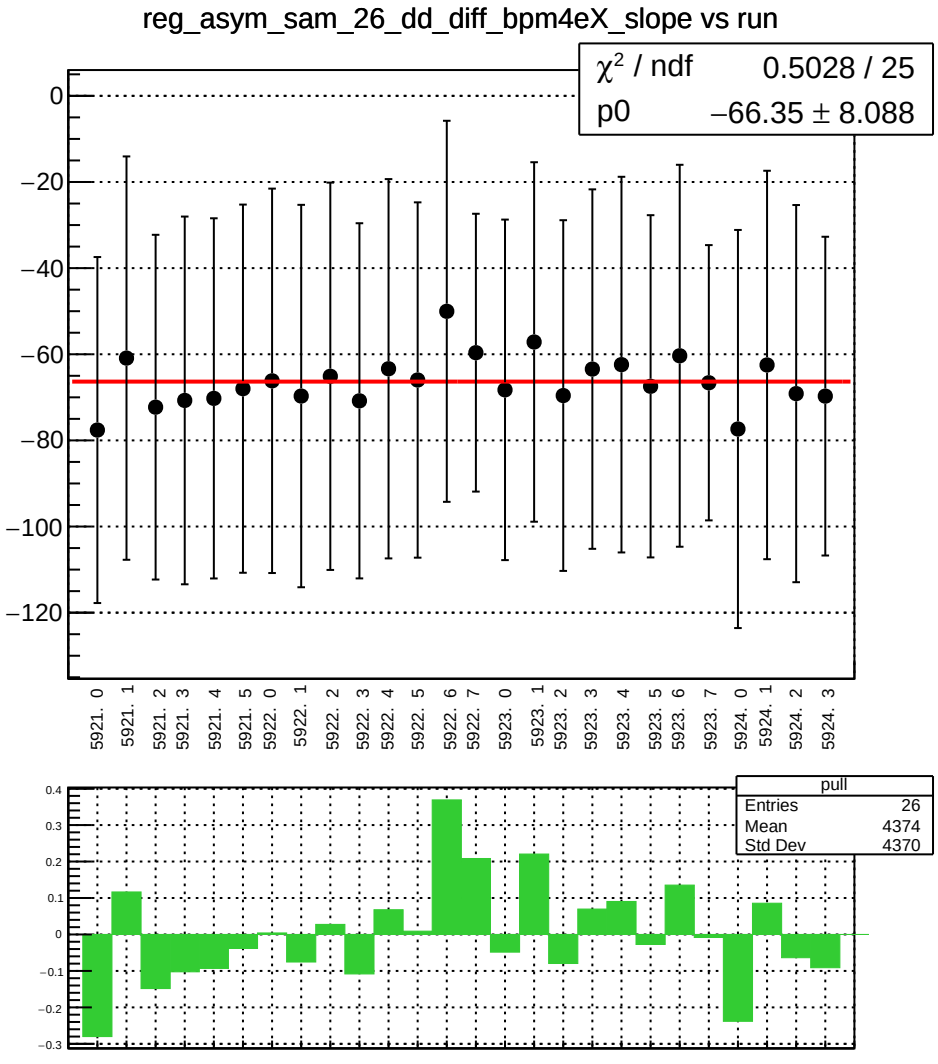

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 25
p0 −53.22 ± 2.269
−30
−40
−50
−60
−70
−80
−90
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 49.64
Std Dev 42.96
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.04451
Std Dev 0.7474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

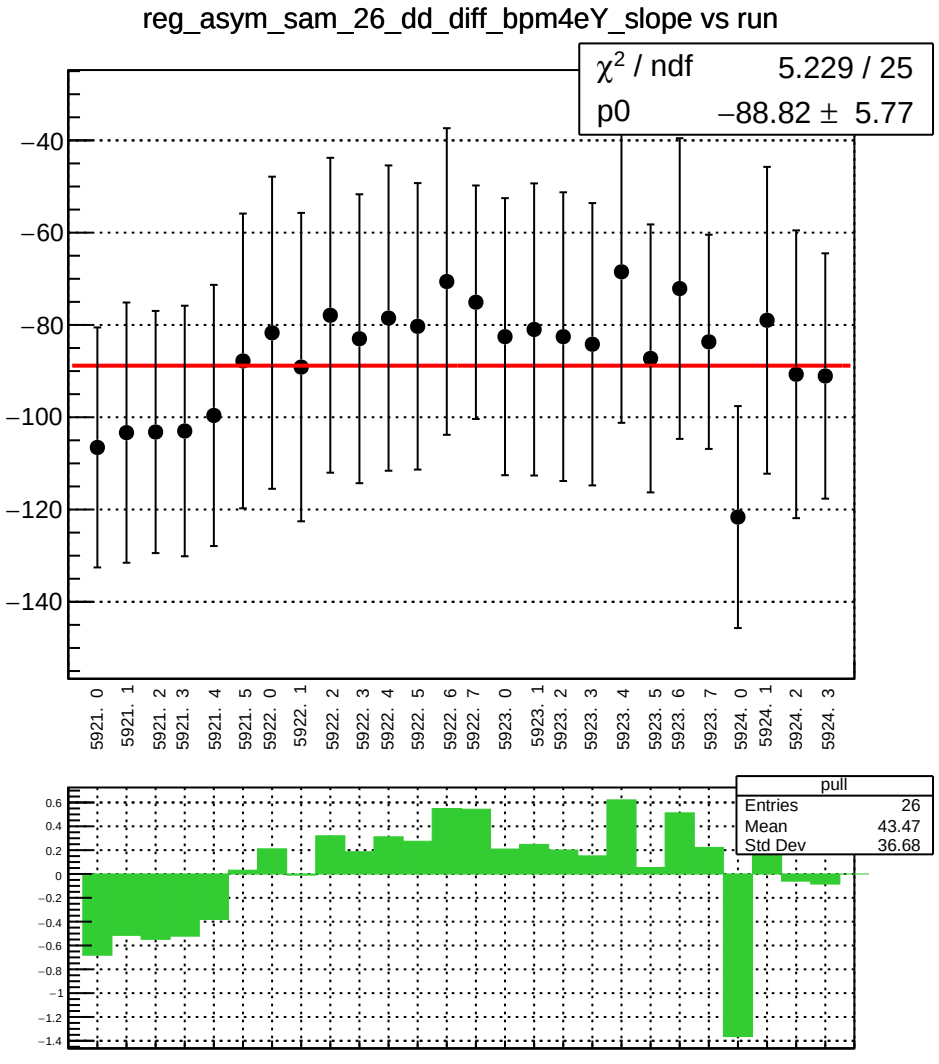

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.847 / 25
p0 −0.9672 ± 0.1419
0.5
0
−0.5
−1
−1.5
−2
−2.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 114
Std Dev 101.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

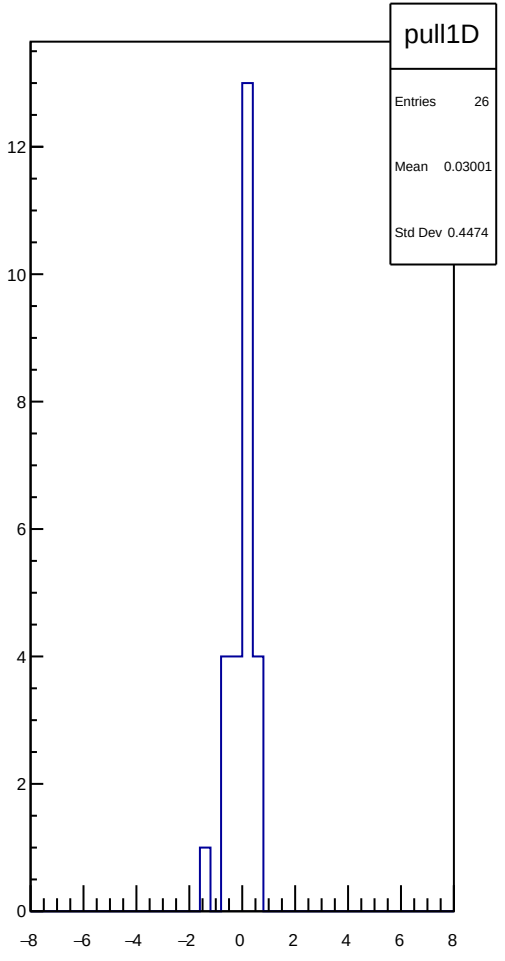

pull1D
Entries 26
Mean 0.008689
Std Dev 0.3308
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

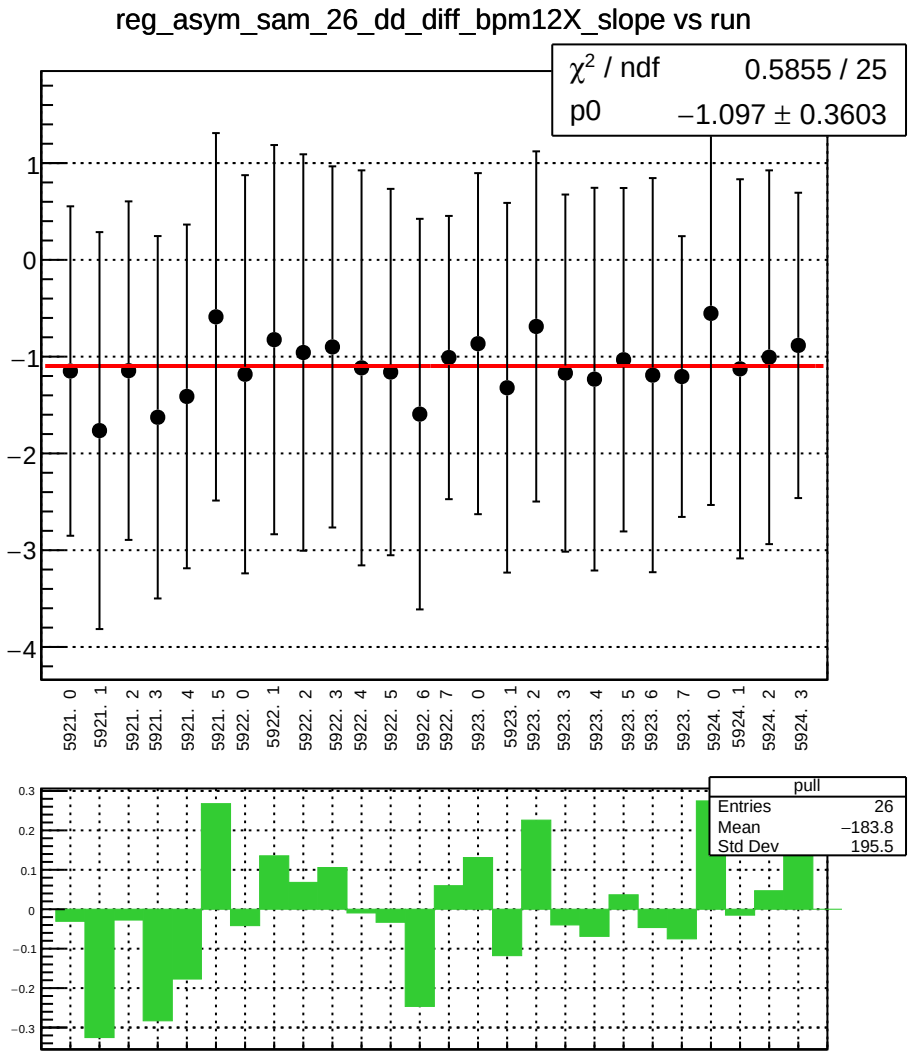

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.5151 / 25
p0 −58.23 ± 6.427
−20
−40
−60
−80
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 860.4
Std Dev 855.1
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.0002435
Std Dev 0.1408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

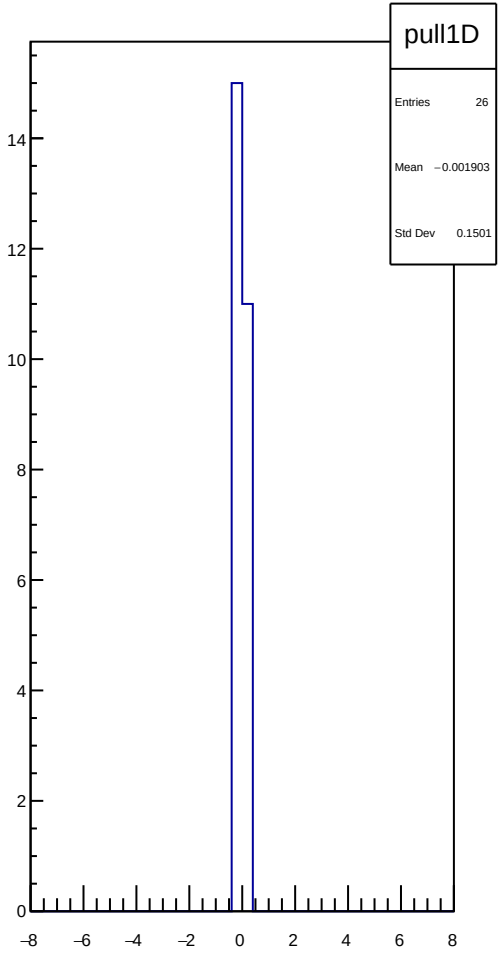

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.263 / 25
p0 −62.5 ± 5.255
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 41.41
Std Dev 34.92
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.02997
Std Dev 0.4489
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

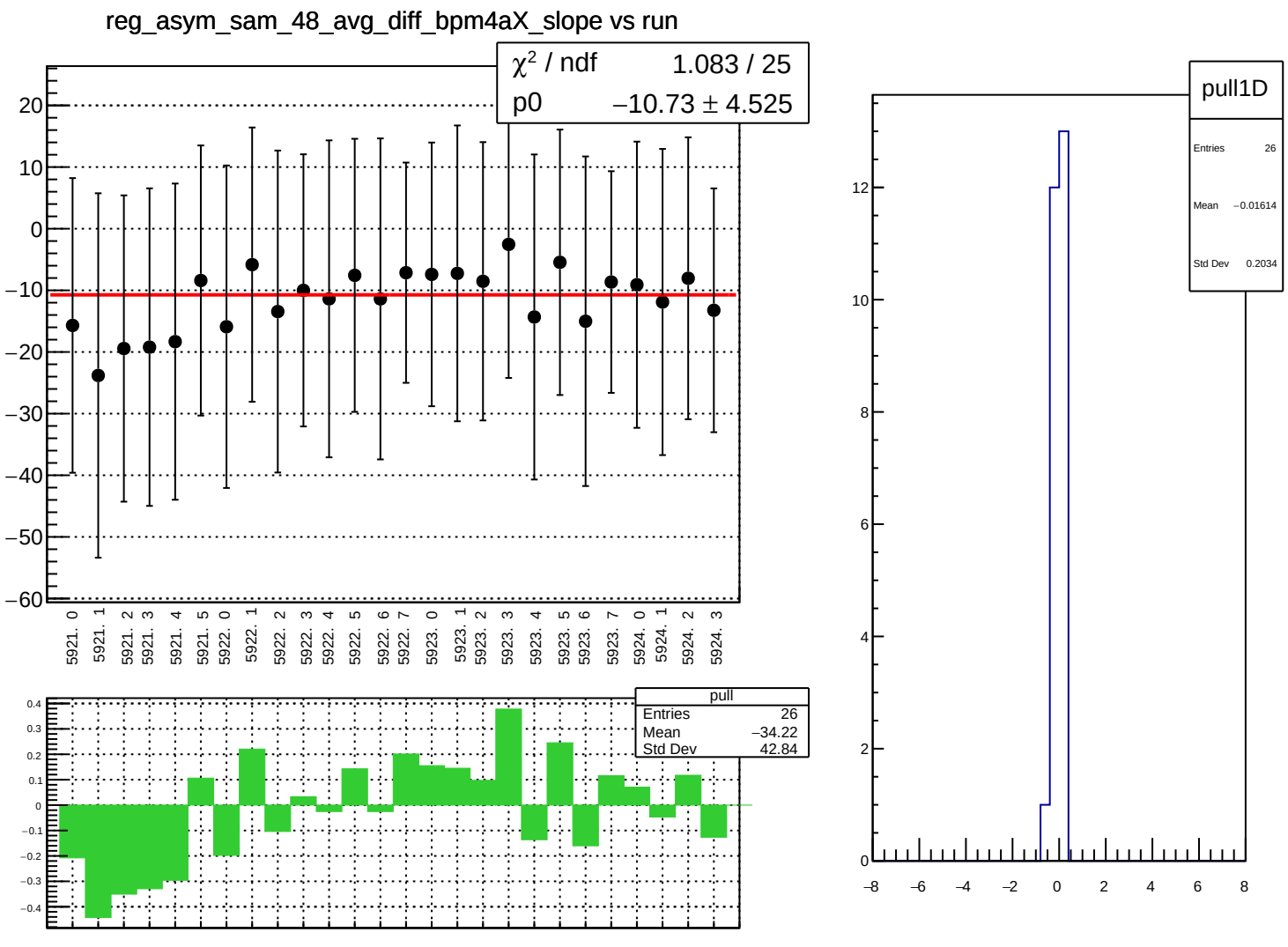

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5028 / 25
p0 −66.35 ± 8.088
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4374
Std Dev 4370
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 4.138e−05
Std Dev 0.1391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

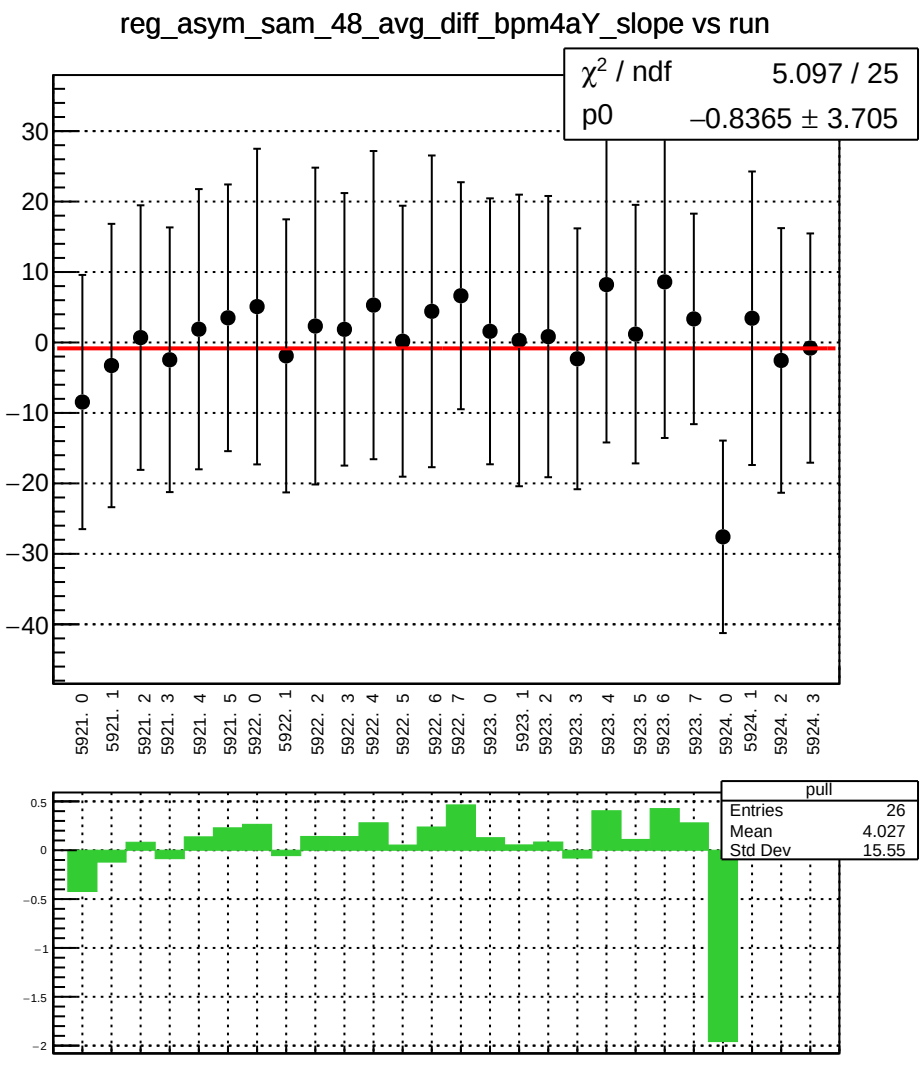

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.229 / 25
p0 −88.82 ± 5.77
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 43.47
Std Dev 36.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

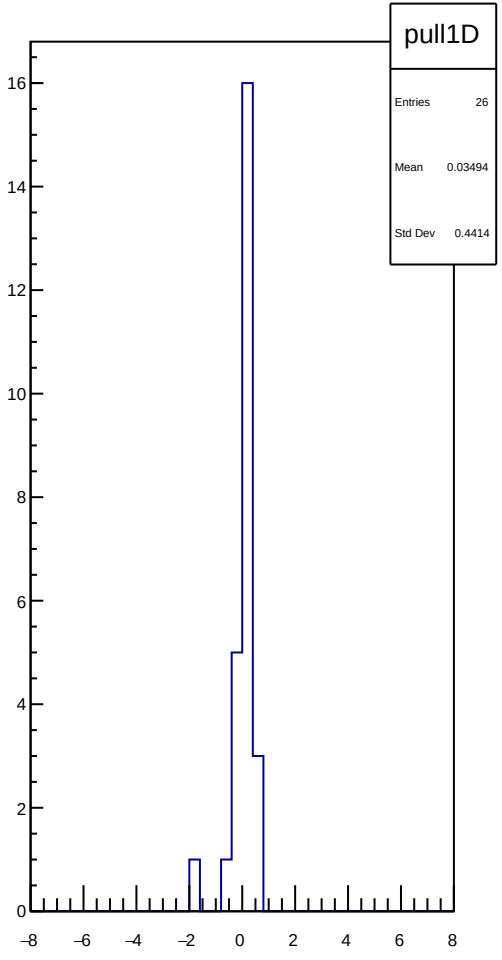

pull1D
Entries 26
Mean 0.03001
Std Dev 0.4474
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

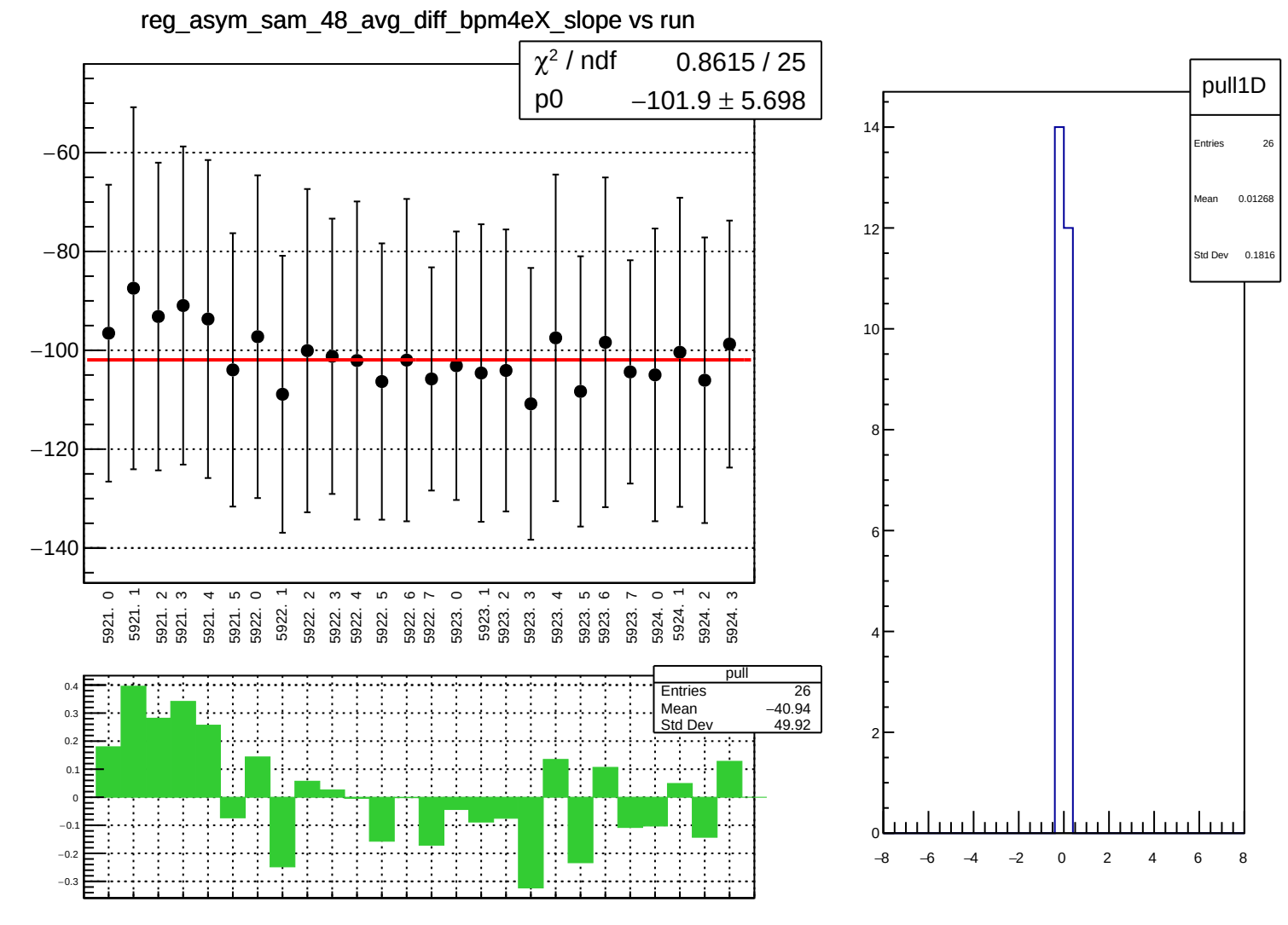

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5855 / 25
p0 −1.097 ± 0.3603
pull
Entries 26
Mean −183.8
Std Dev 195.5

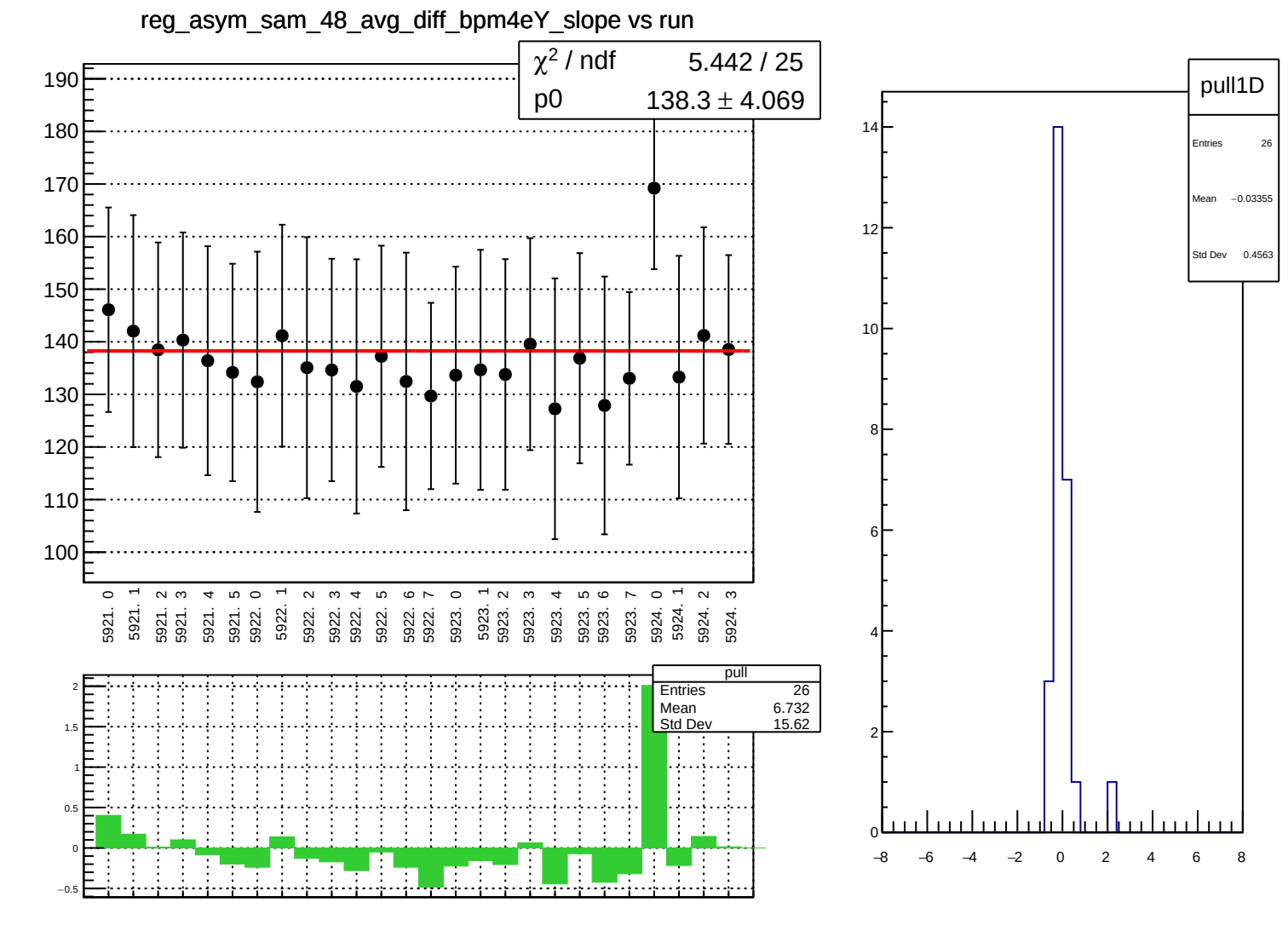

pull1D
Entries 26
Mean −0.001903
Std Dev 0.1501

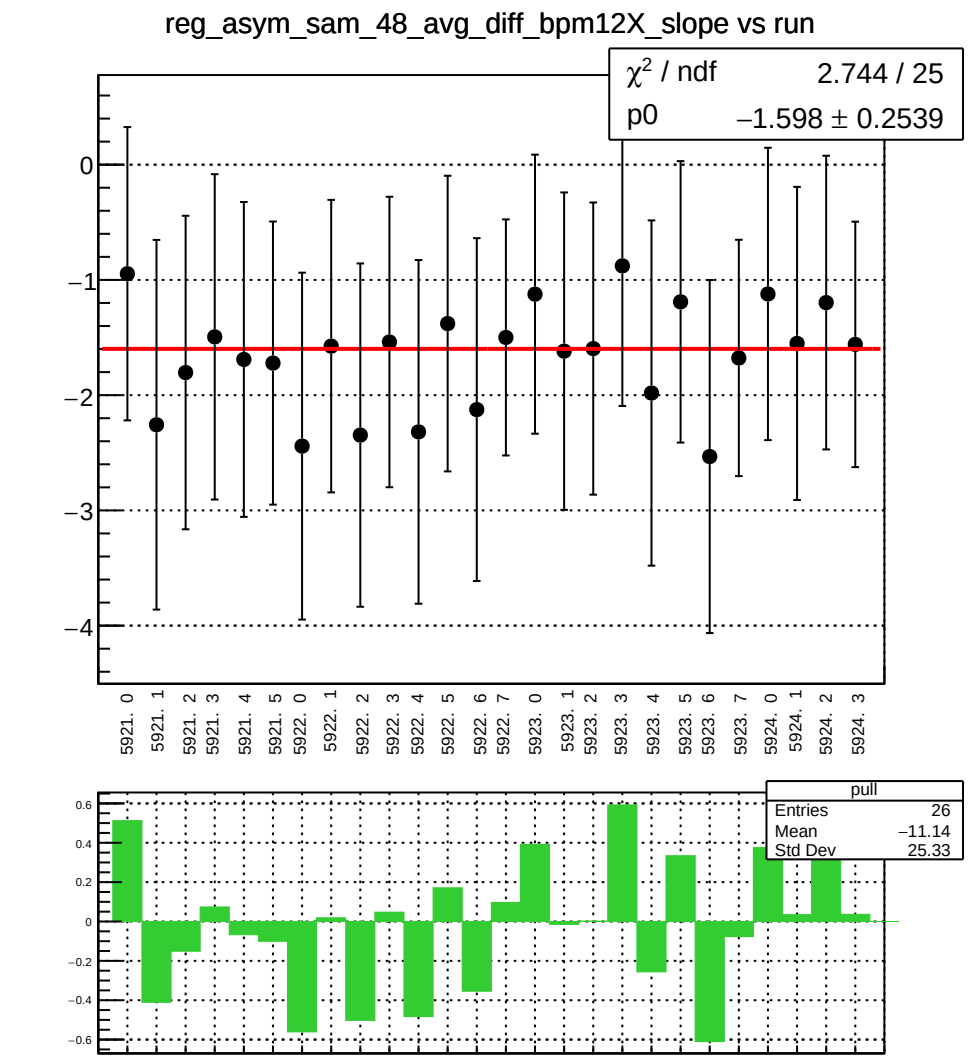

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.083 / 25
p0 −10.73 ± 4.525
20
10
0
−10
−20
−30
−40
−50
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −34.22
Std Dev 42.84
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean −0.01614
Std Dev 0.2034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

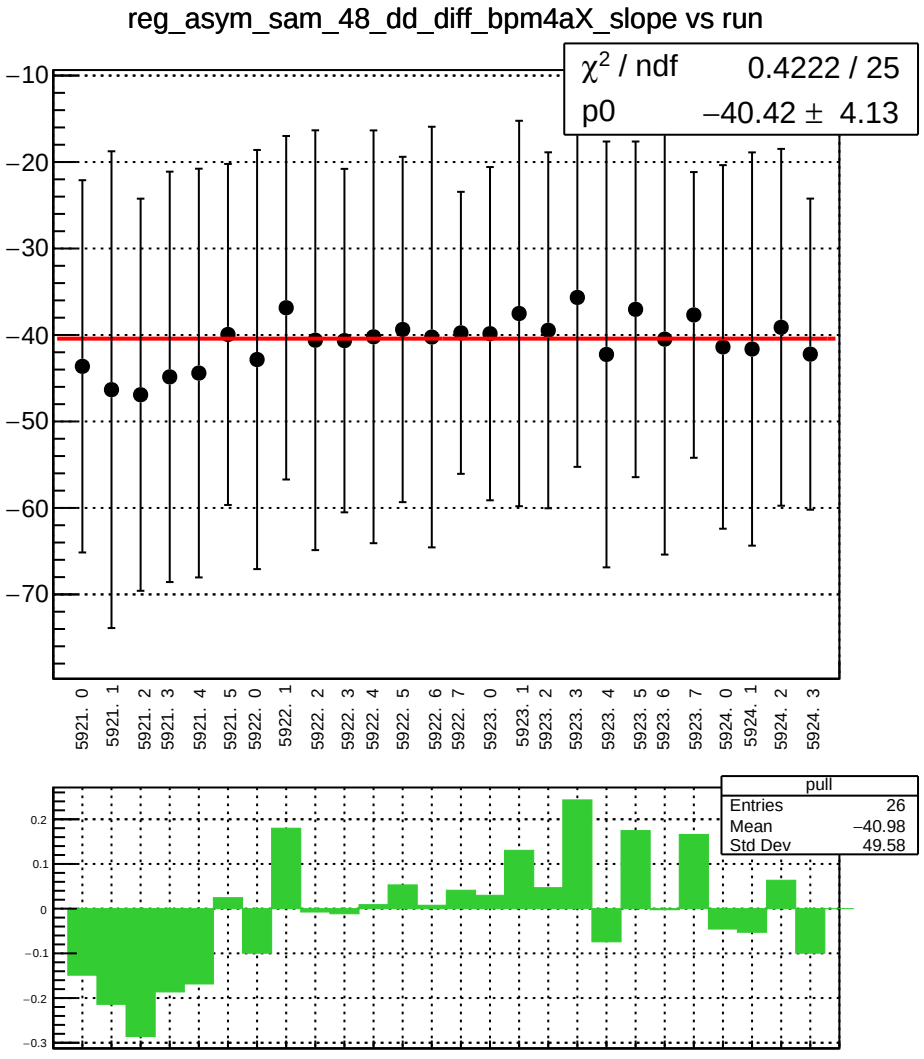

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.097 / 25
p0 −0.8365 ± 3.705
30
20
10
0
−10
−20
−30
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4.027
Std Dev 15.55
0.5
0
−0.5
−1
−1.5
−2

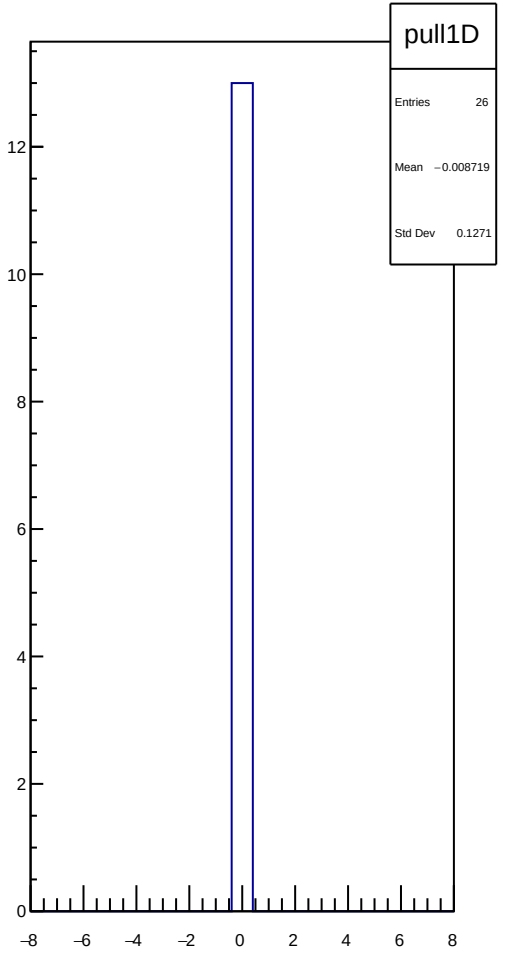

pull1D
Entries 26
Mean 0.03494
Std Dev 0.4414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

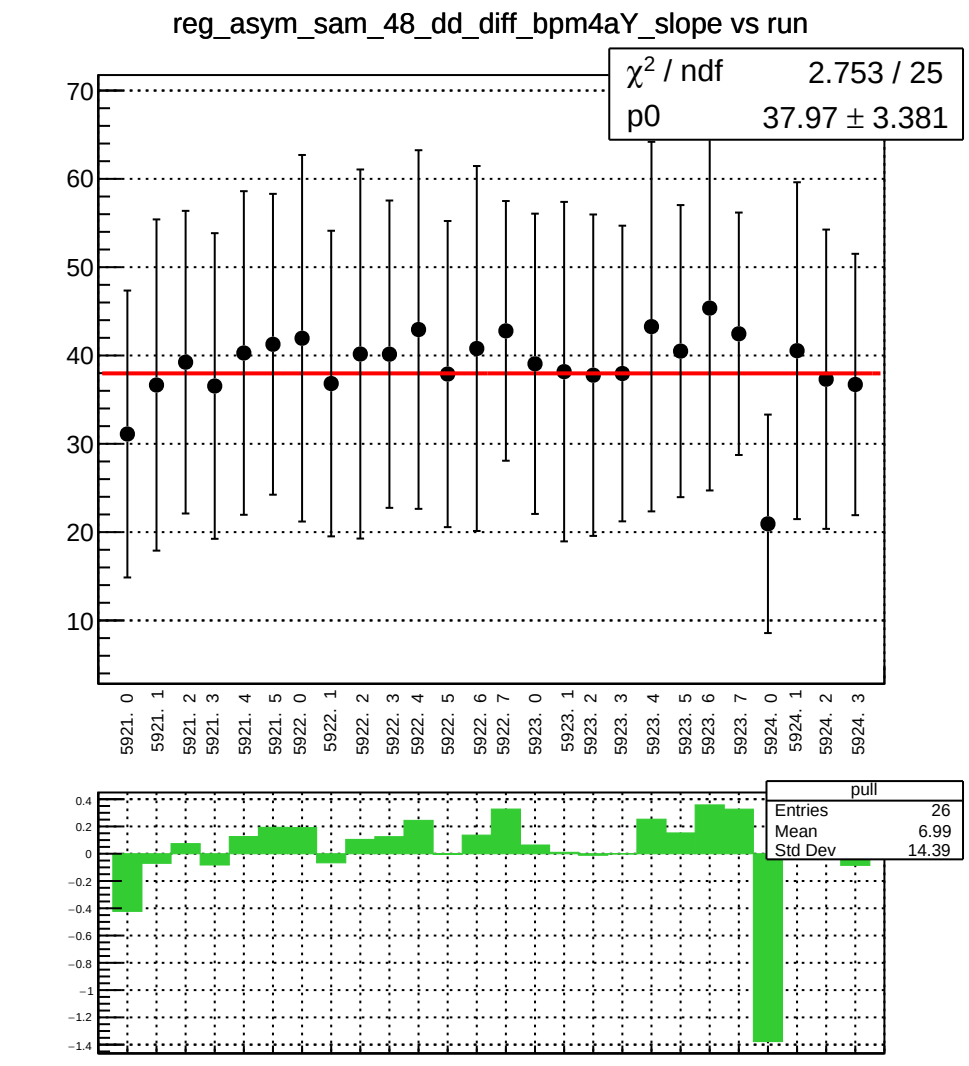

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.8615 / 25
p0 −101.9 ± 5.698
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −40.94
Std Dev 49.92
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.01268
Std Dev 0.1816
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

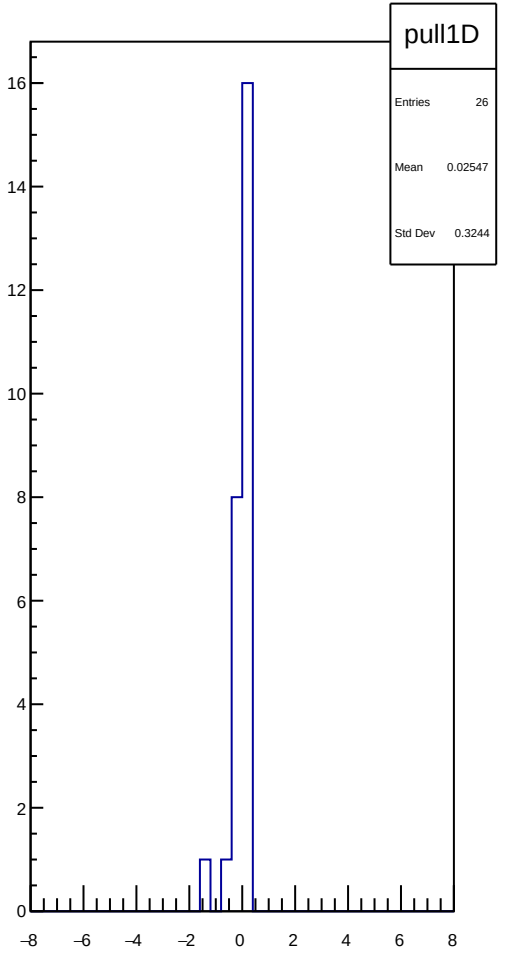

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.442 / 25
p0 138.3 ± 4.069
pull
Entries 26
Mean 6.732
Std Dev 15.62
pull1D
Entries 26
Mean −0.03355
Std Dev 0.4563

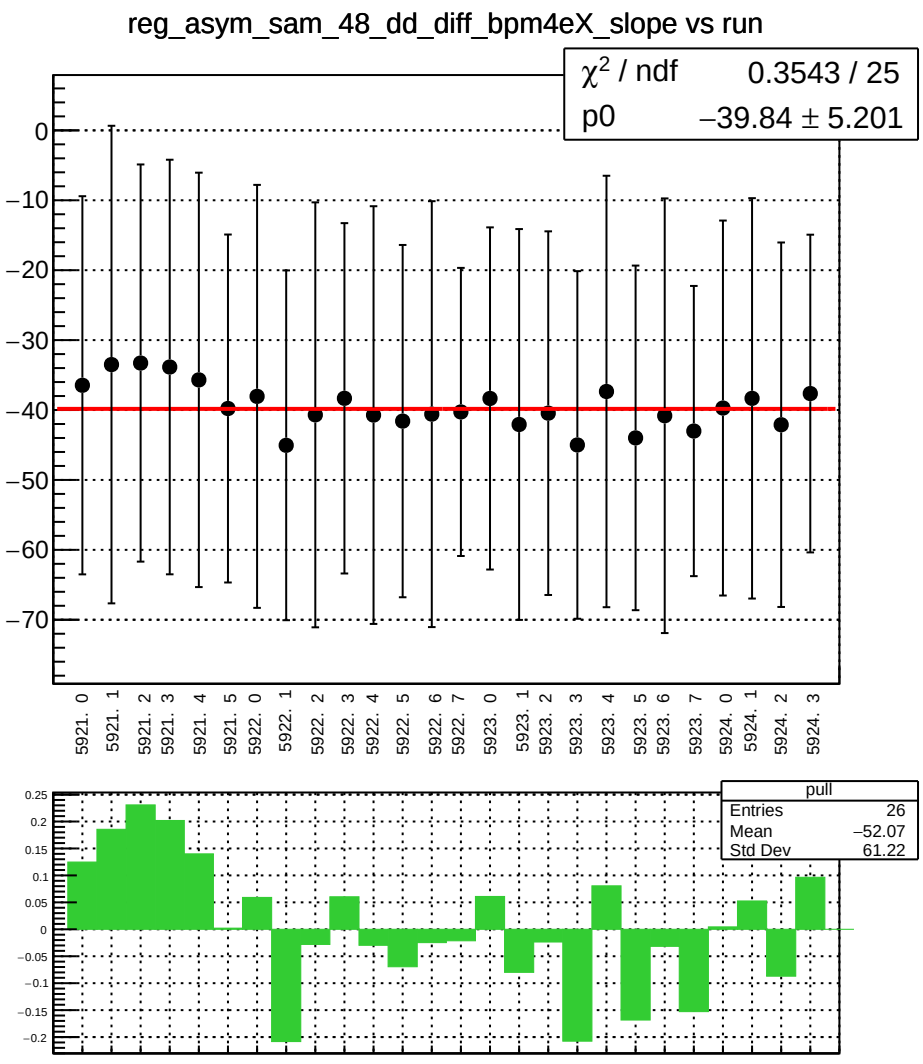

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.744 / 25
p0 −1.598 ± 0.2539
0
−1
−2
−3
−4
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −11.14
Std Dev 25.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.02248
Std Dev 0.3241
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

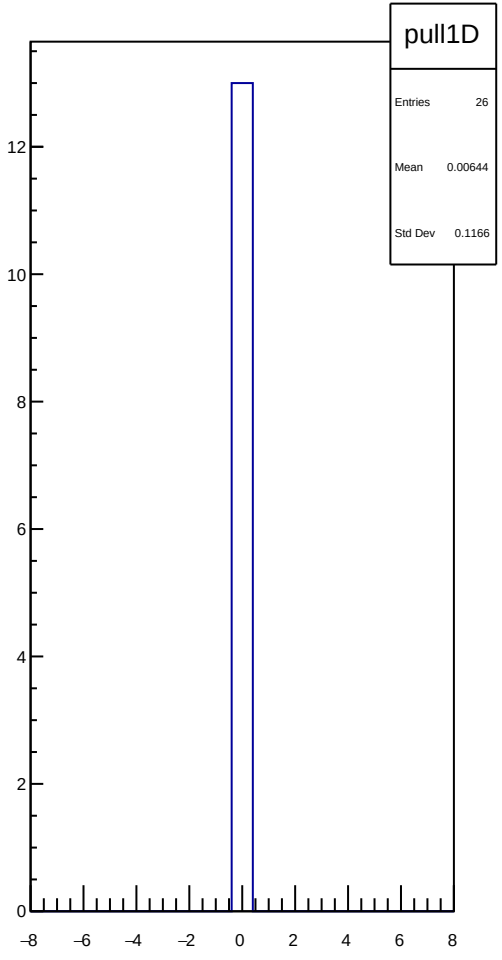

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.4222 / 25
p0 −40.42 ± 4.13
−10
−20
−30
−40
−50
−60
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −40.98
Std Dev 49.58
0.2
0.1
0
−0.1
−0.2
−0.3

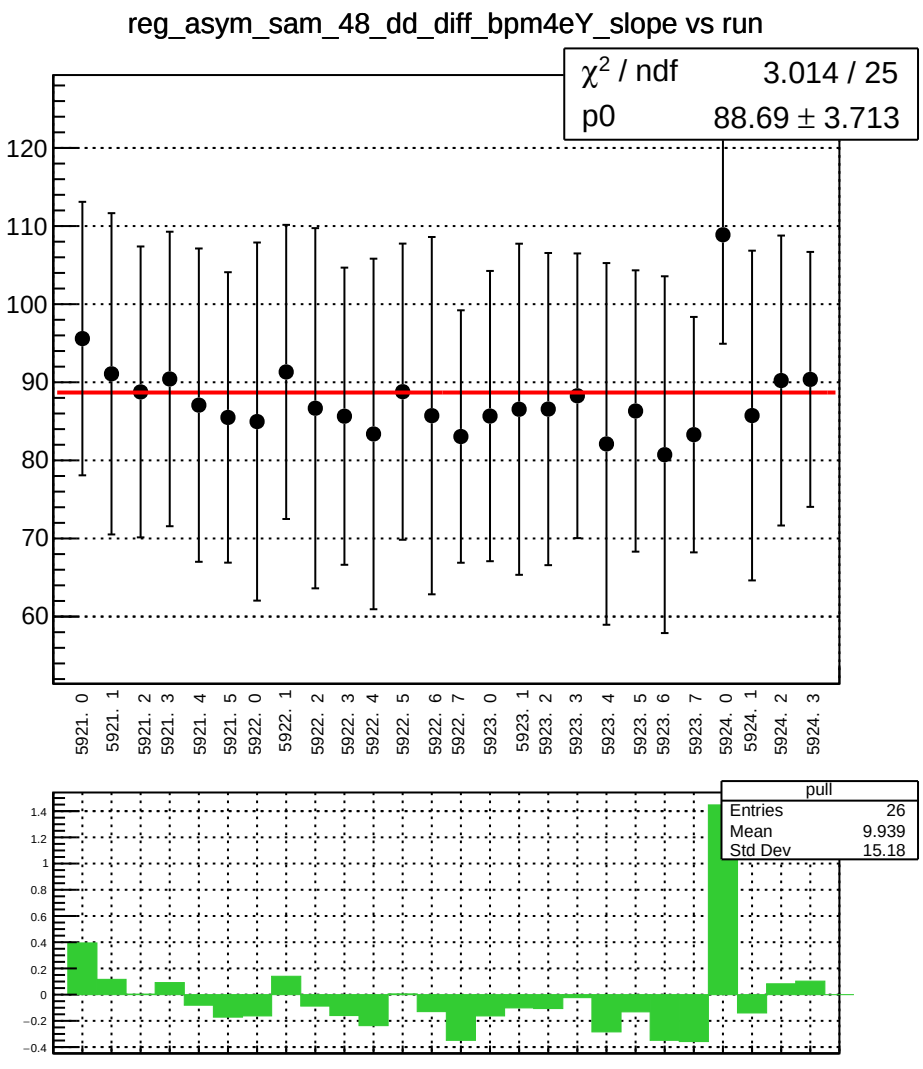

pull1D
Entries 26
Mean −0.008719
Std Dev 0.1271
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

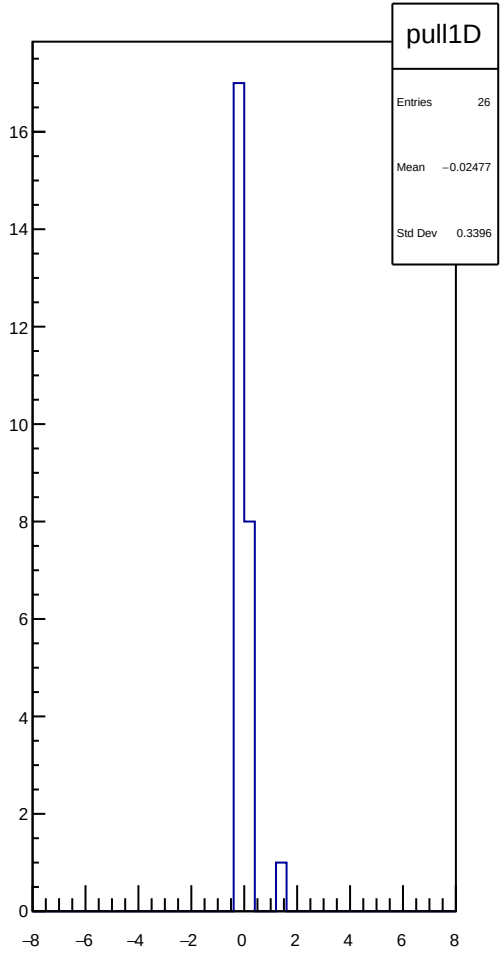

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.753 / 25
p0 37.97 ± 3.381
70
60
50
40
30
20
10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 6.99
Std Dev 14.39
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

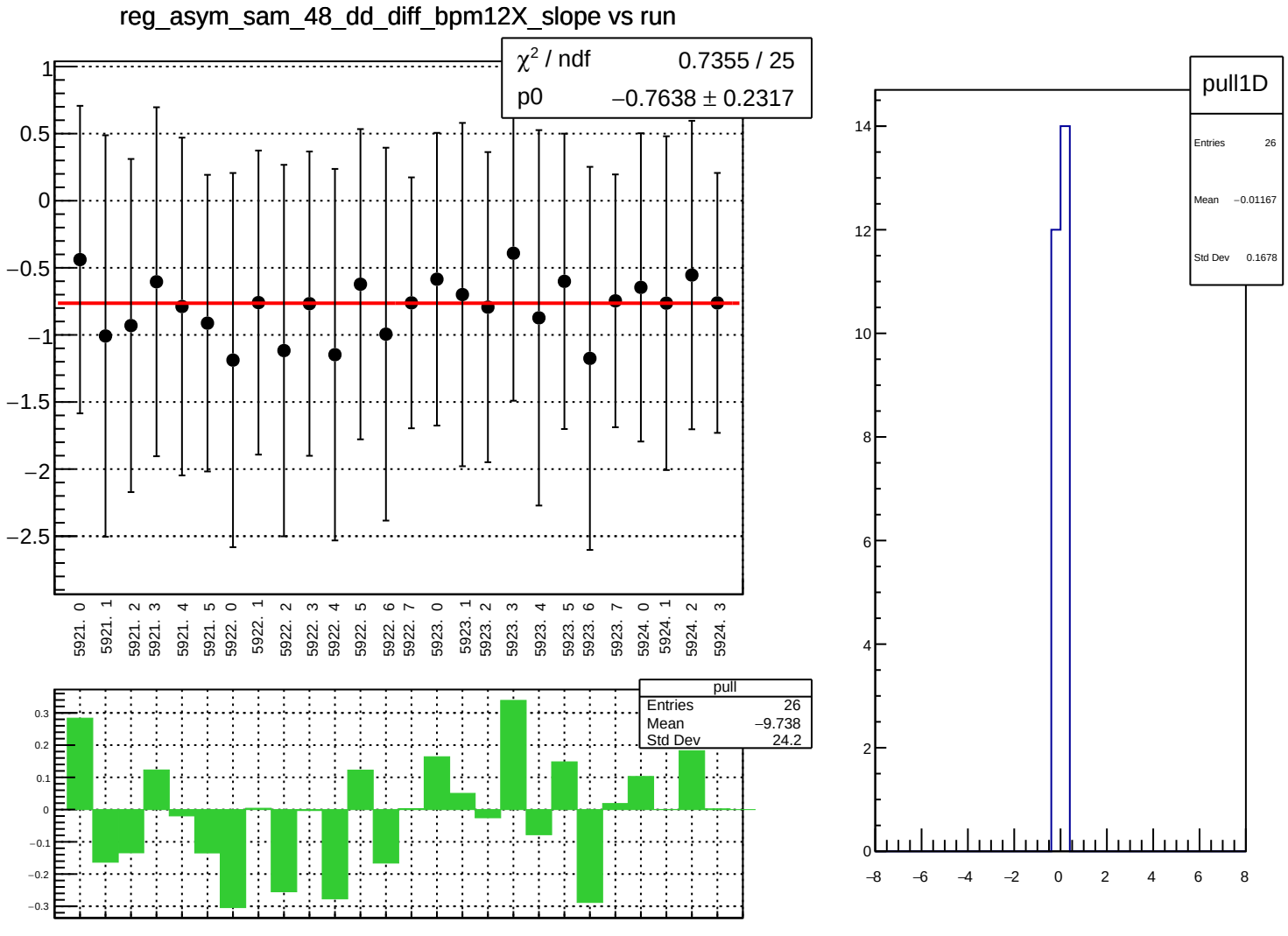

pull1D
Entries 26
Mean 0.02547
Std Dev 0.3244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

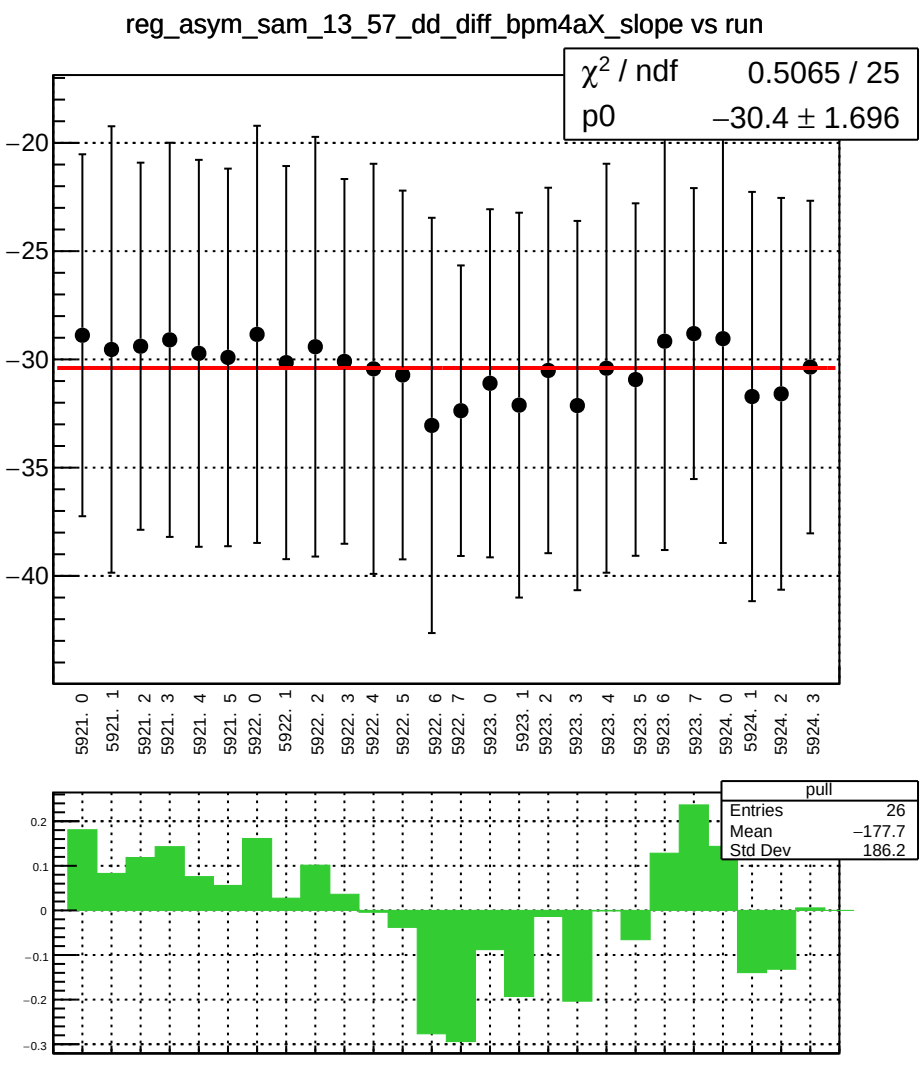

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3543 / 25
p0 −39.84 ± 5.201
0
−10
−20
−30
−40
−50
−60
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −52.07
Std Dev 61.22
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

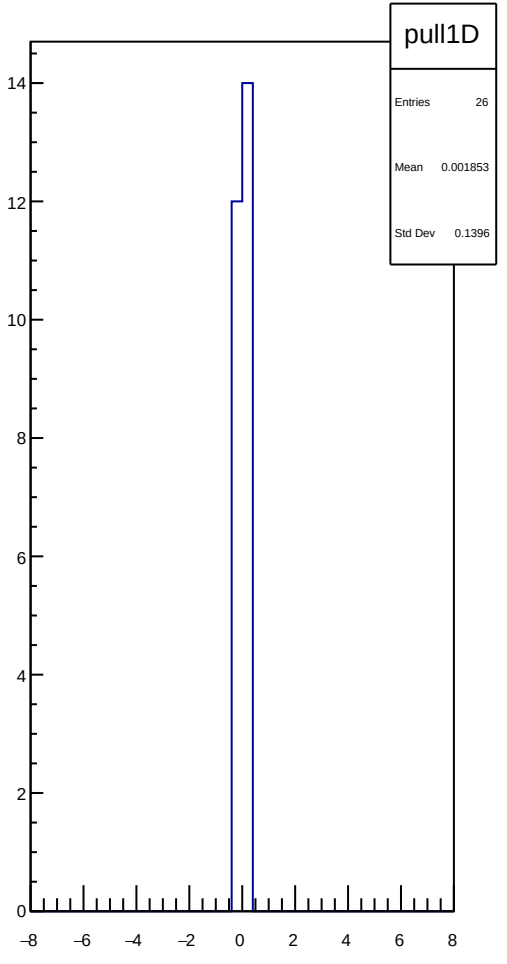

pull1D
Entries 26
Mean 0.00644
Std Dev 0.1166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

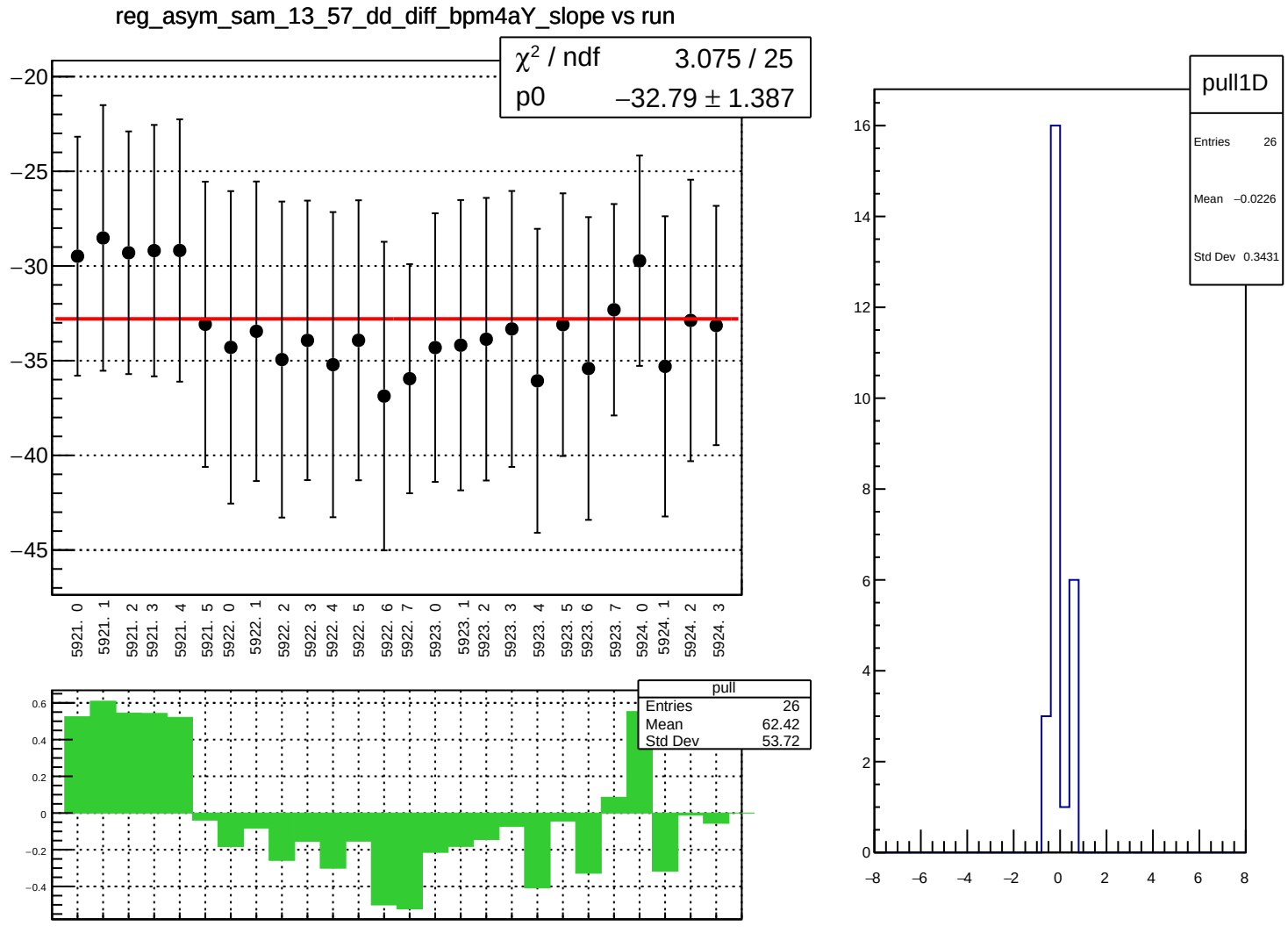

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.014 / 25
p0 88.69 ± 3.713
120
110
100
90
80
70
60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 9.939
Std Dev 15.18
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

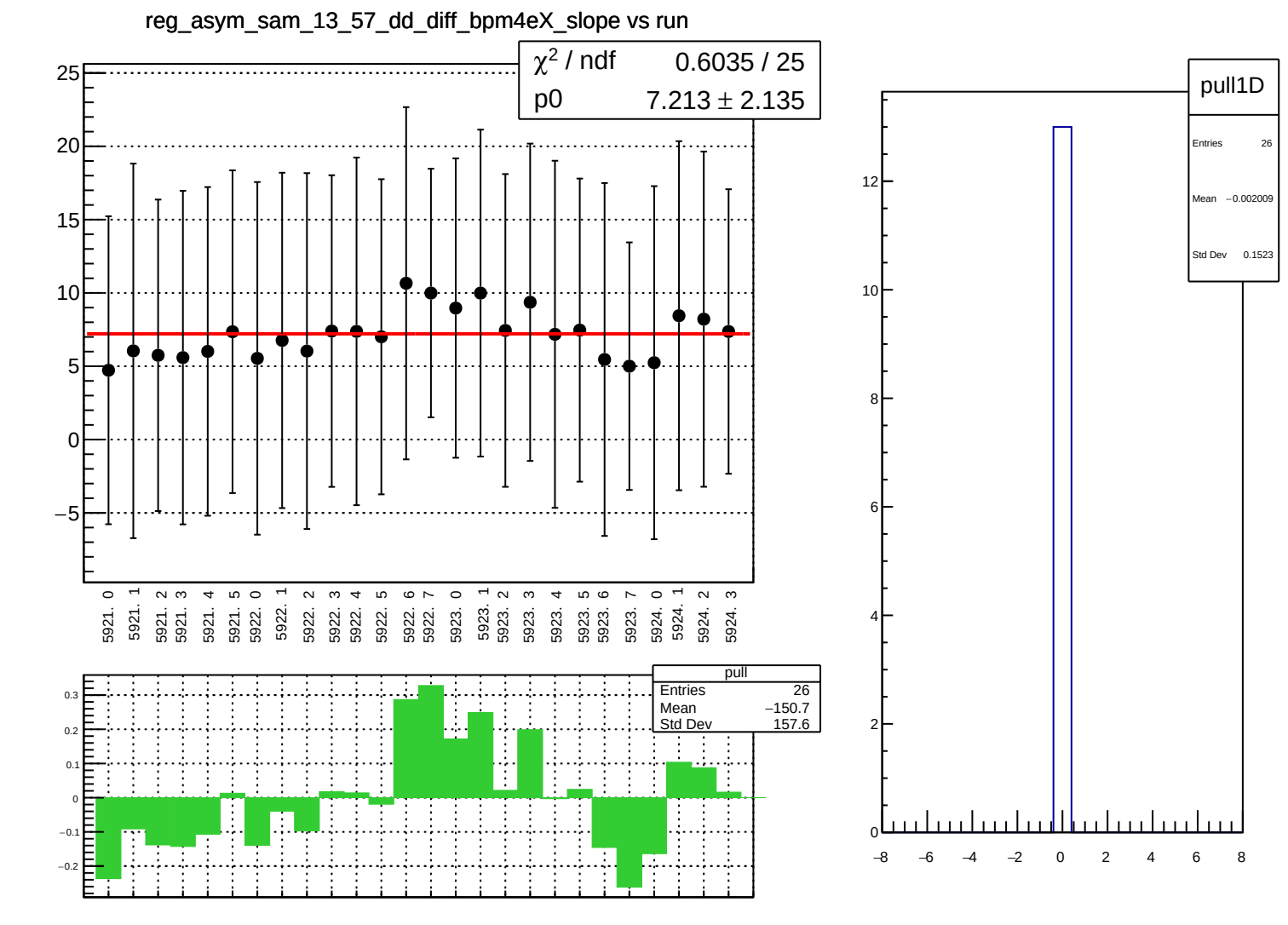

pull1D
Entries 26
Mean −0.02477
Std Dev 0.3396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

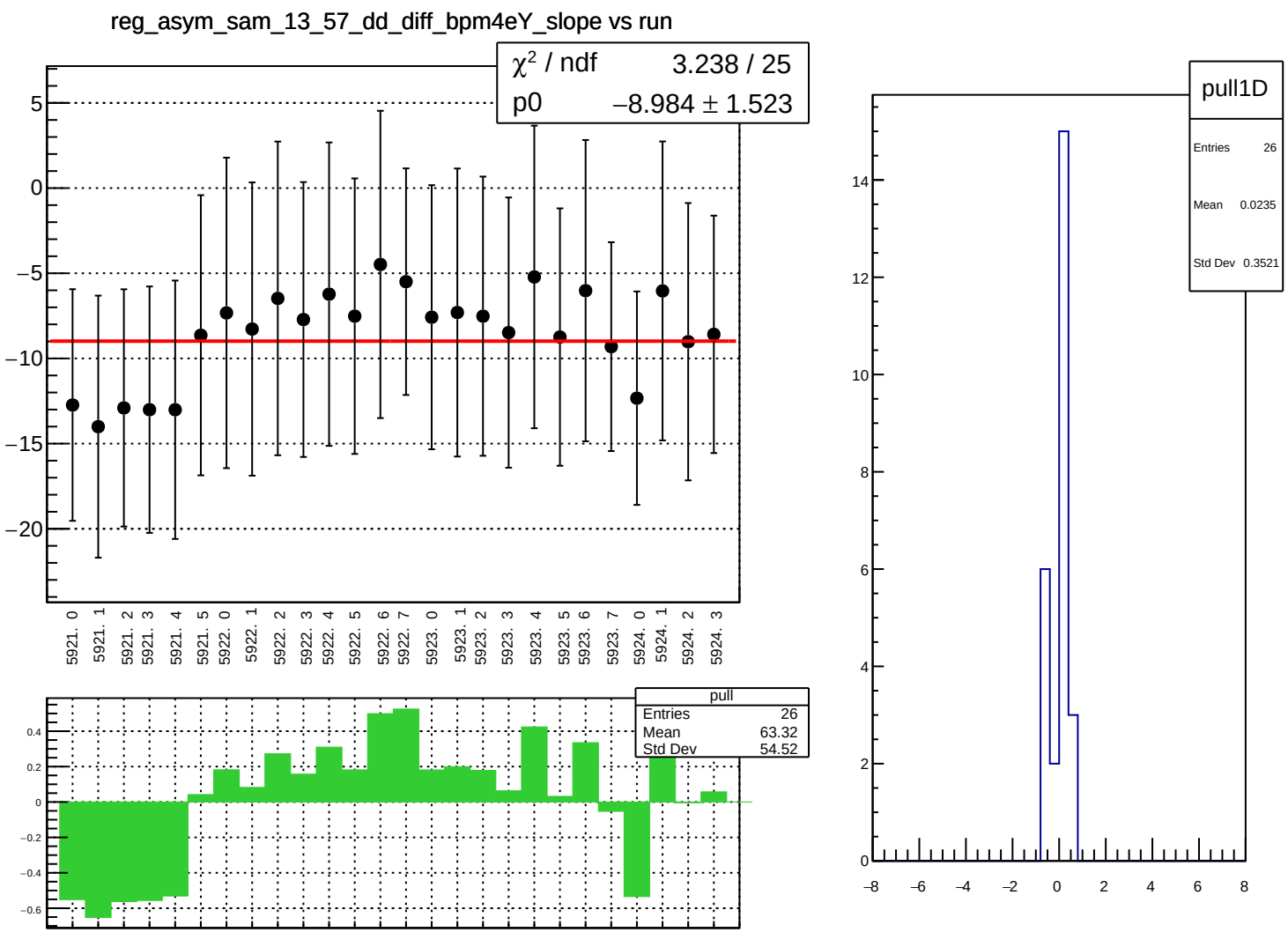

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7355 / 25
p0 −0.7638 ± 0.2317
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −9.738
Std Dev 24.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.01167
Std Dev 0.1678
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

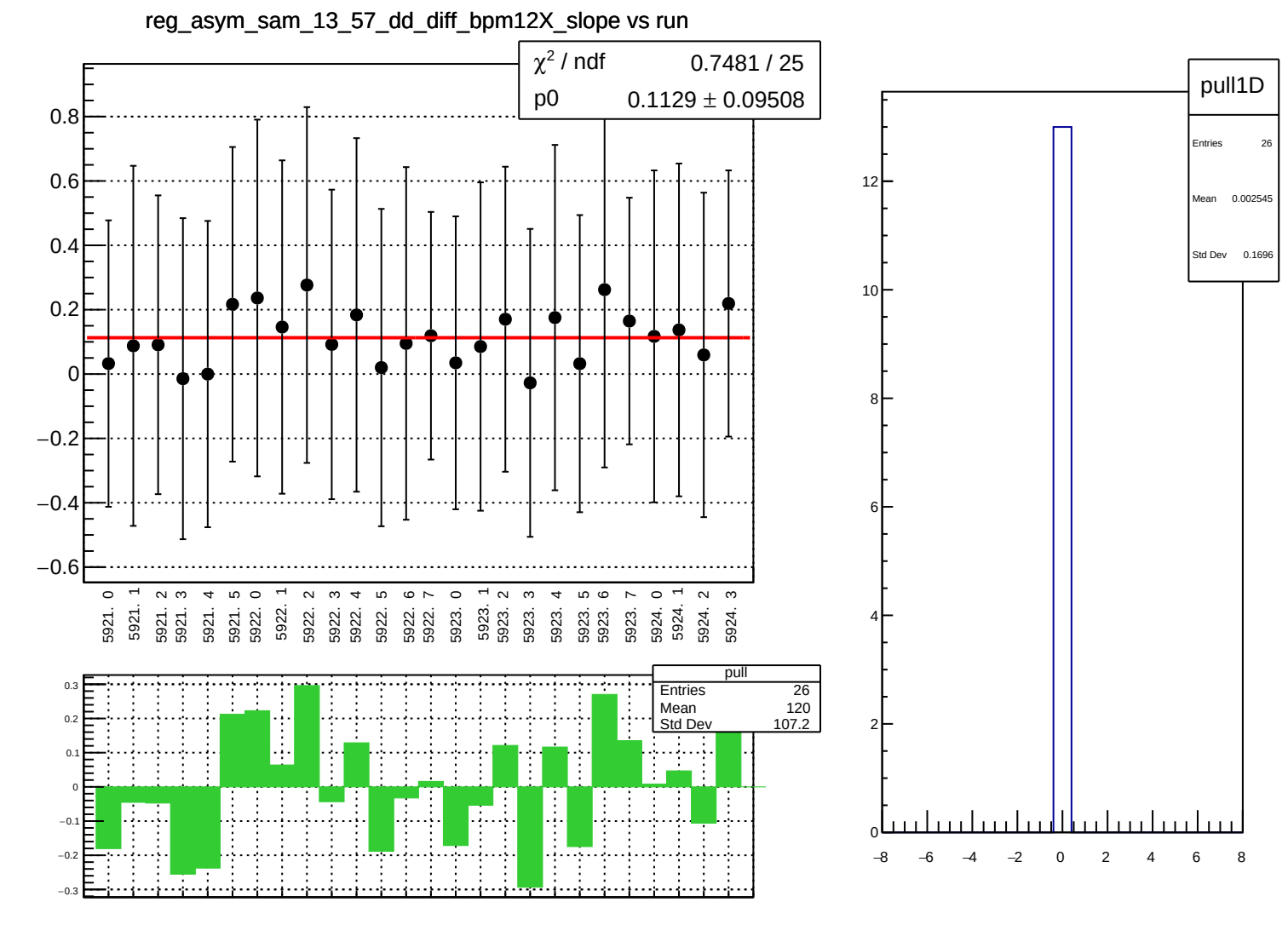

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.5065 / 25
p0 −30.4 ± 1.696
−20
−25
−30
−35
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −177.7
Std Dev 186.2
0.2
0.1
0
−0.1
−0.2
−0.3

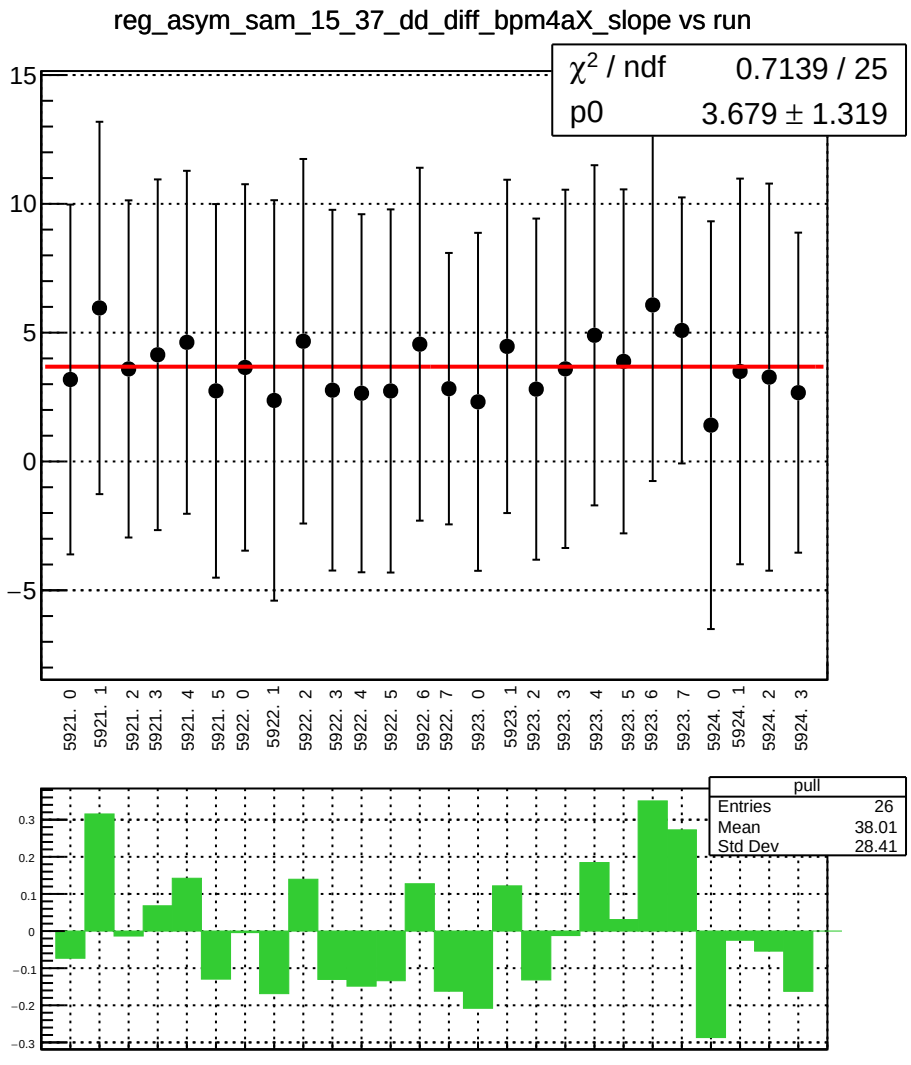

pull1D
Entries 26
Mean 0.001853
Std Dev 0.1396
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

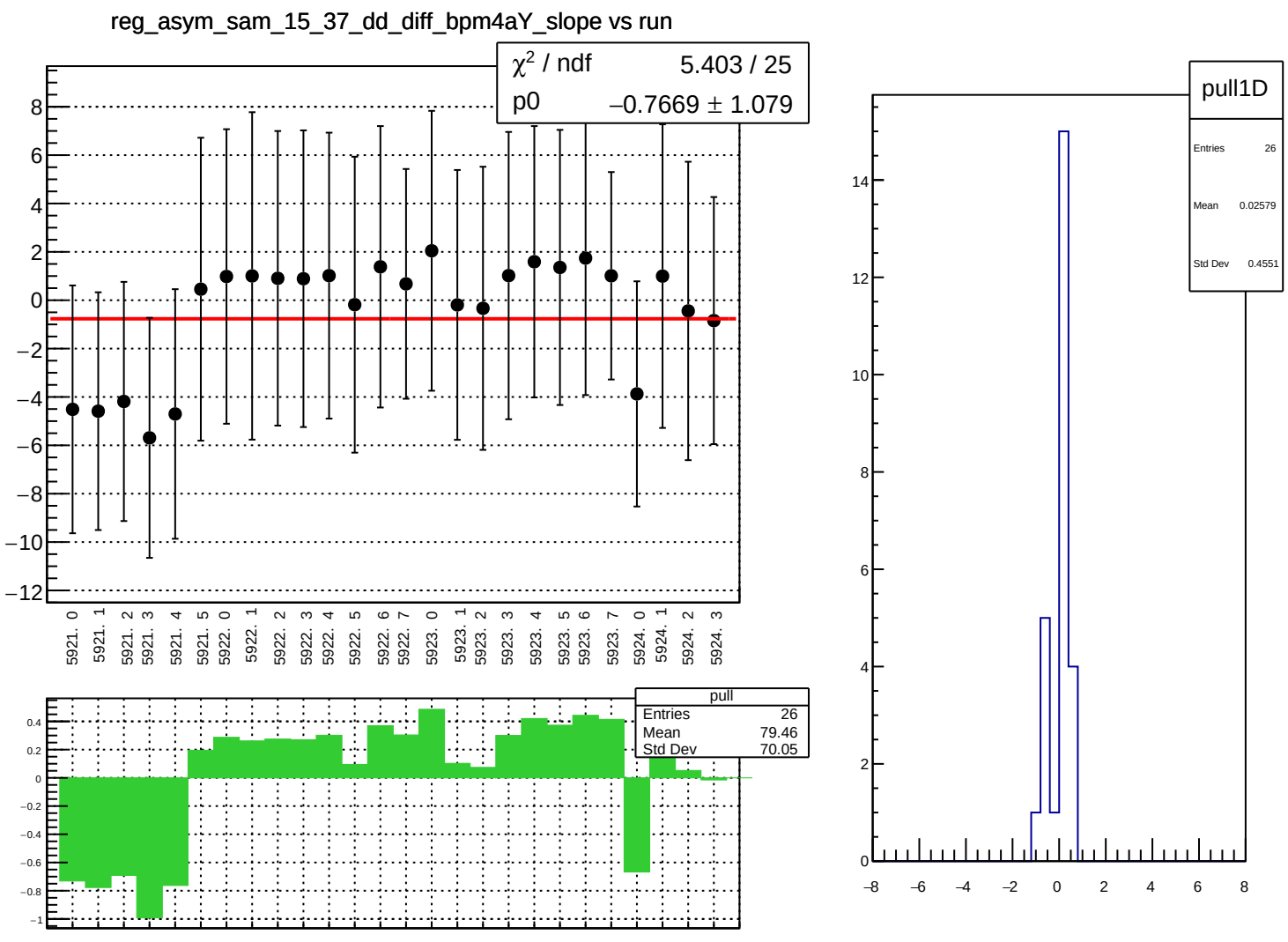

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.075 / 25
p0 −32.79 ± 1.387
−20
−25
−30
−35
−40
−45
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 62.42
Std Dev 53.72
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.0226
Std Dev 0.3431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

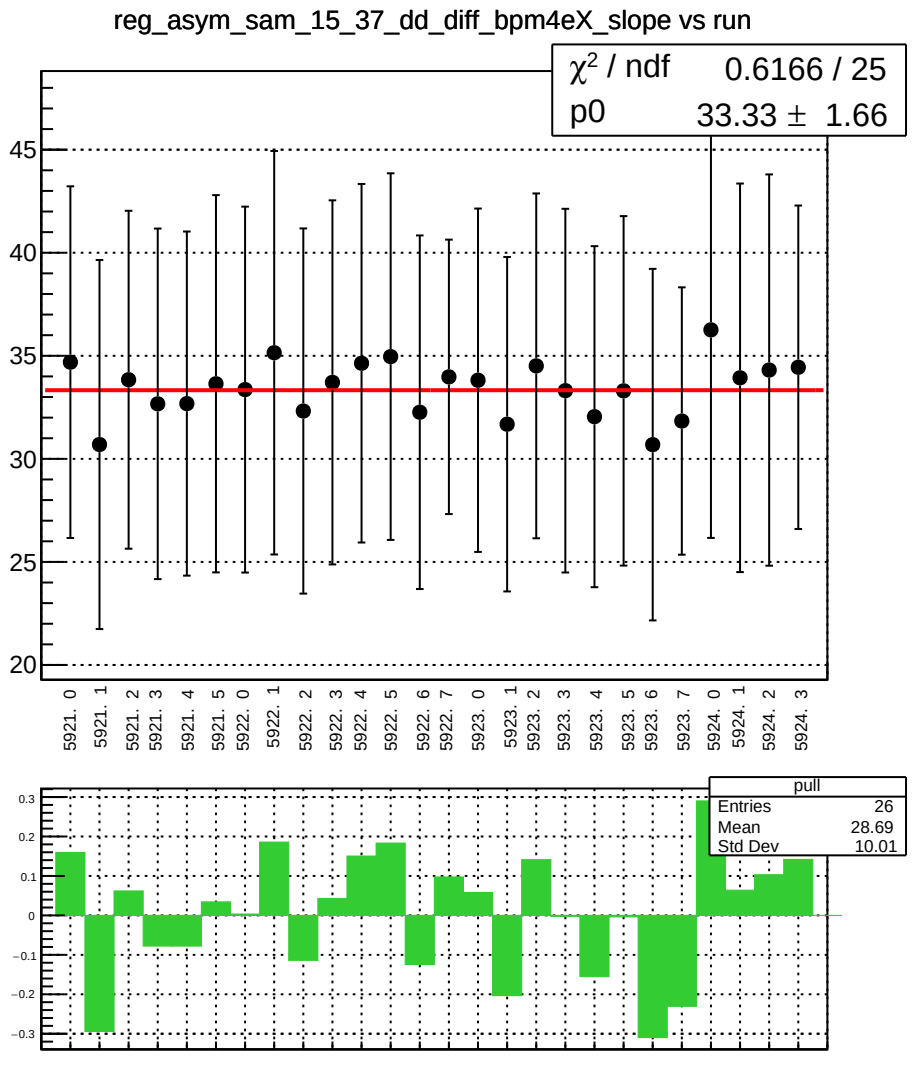

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6035 / 25
p0 7.213 ± 2.135
25
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −150.7
Std Dev 157.6
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.002009
Std Dev 0.1523
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

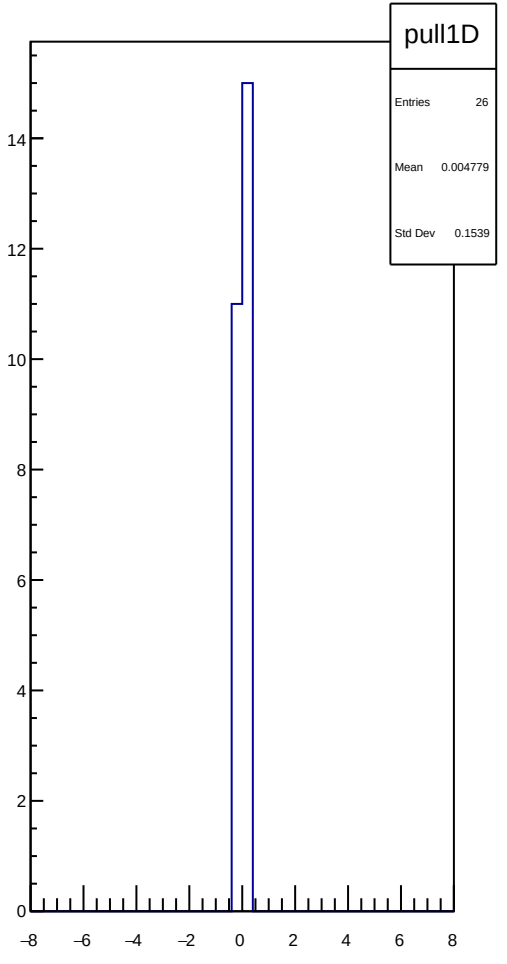

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.238 / 25
p0 −8.984 ± 1.523
5
0
−5
−10
−15
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 63.32
Std Dev 54.52
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.0235
Std Dev 0.3521
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

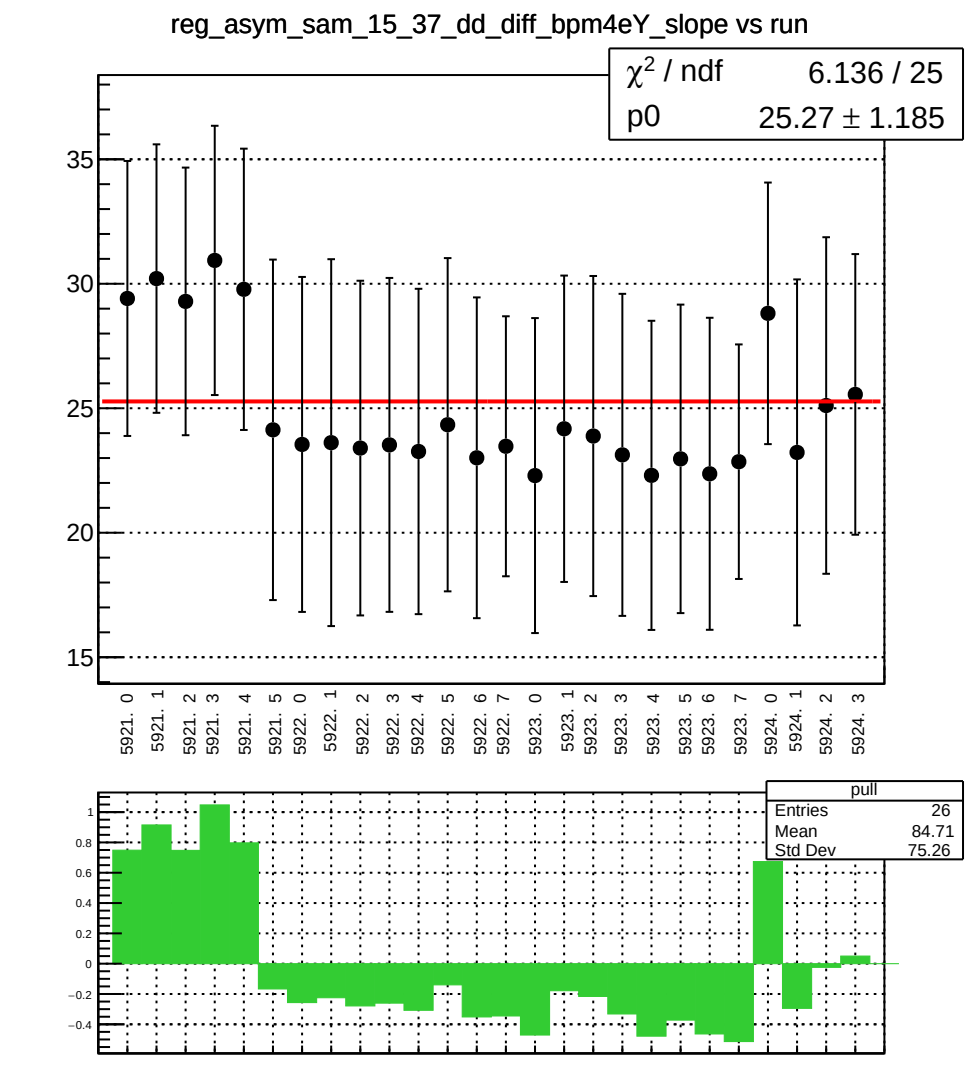

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7481 / 25
p0 0.1129 ± 0.09508
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 120
Std Dev 107.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean 0.002545
Std Dev 0.1696
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

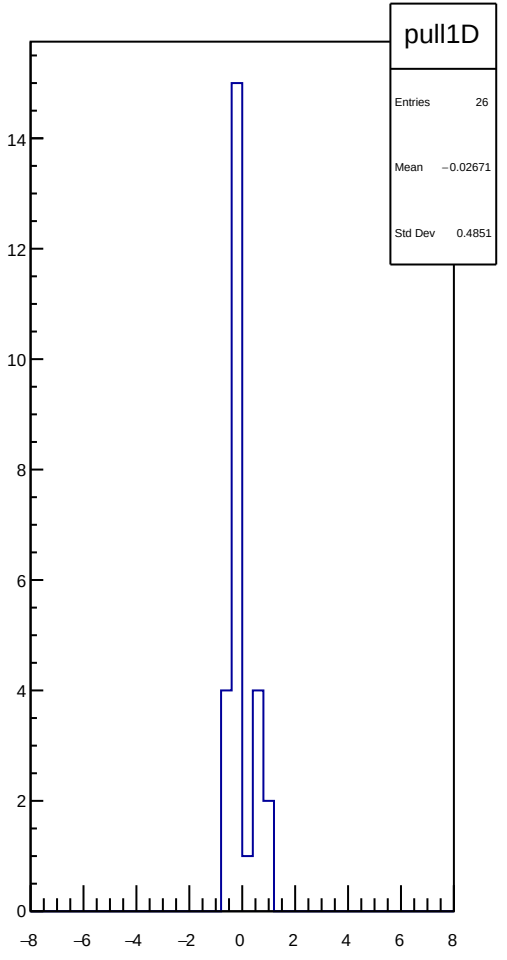

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7139 / 25
p0 3.679 ± 1.319
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 38.01
Std Dev 28.41
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 26
Mean −0.00345
Std Dev 0.1657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

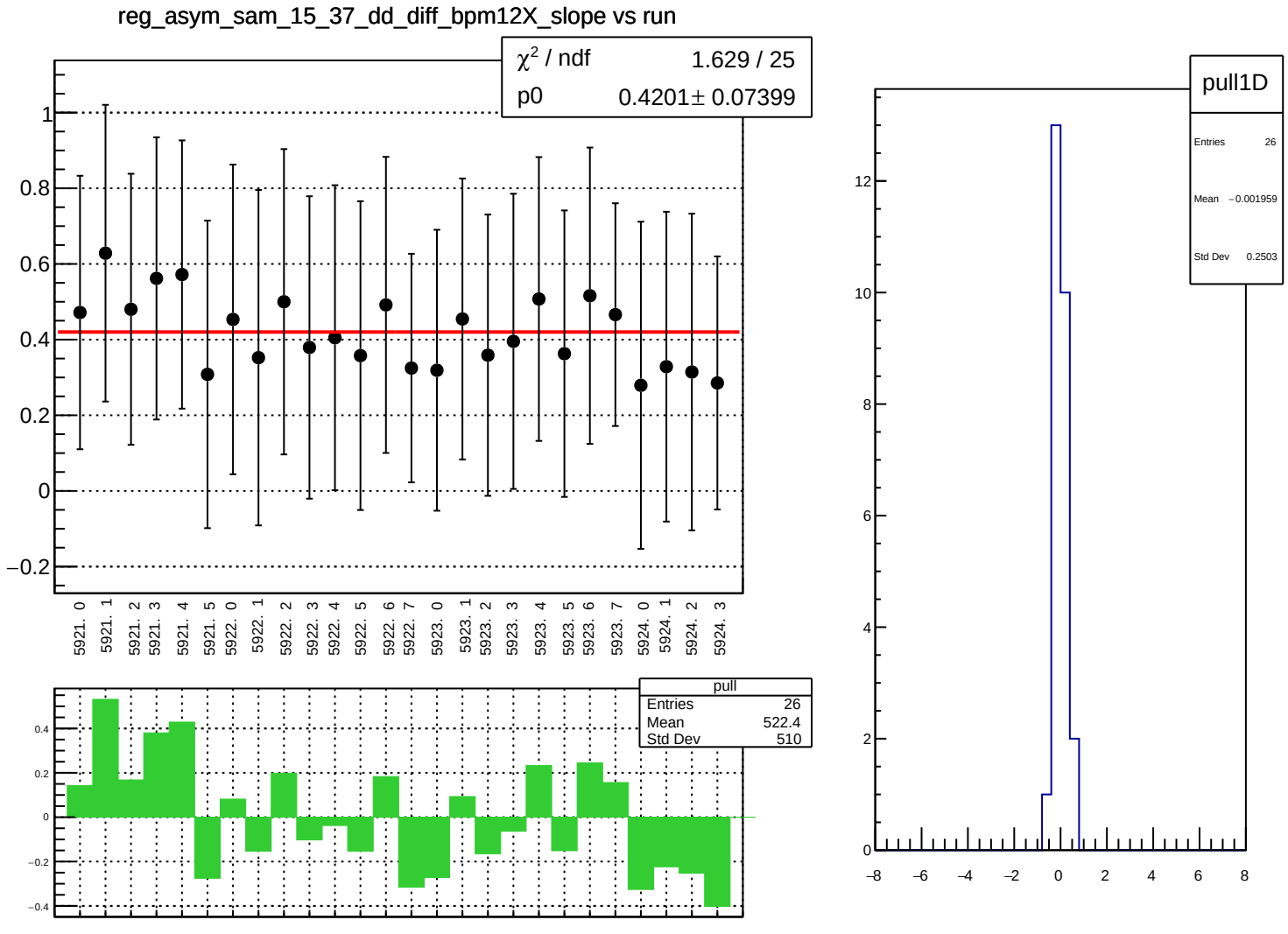

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.403 / 25
p0 −0.7669 ± 1.079
pull
Entries 26
Mean 79.46
Std Dev 70.05
pull1D
Entries 26
Mean 0.02579
Std Dev 0.4551

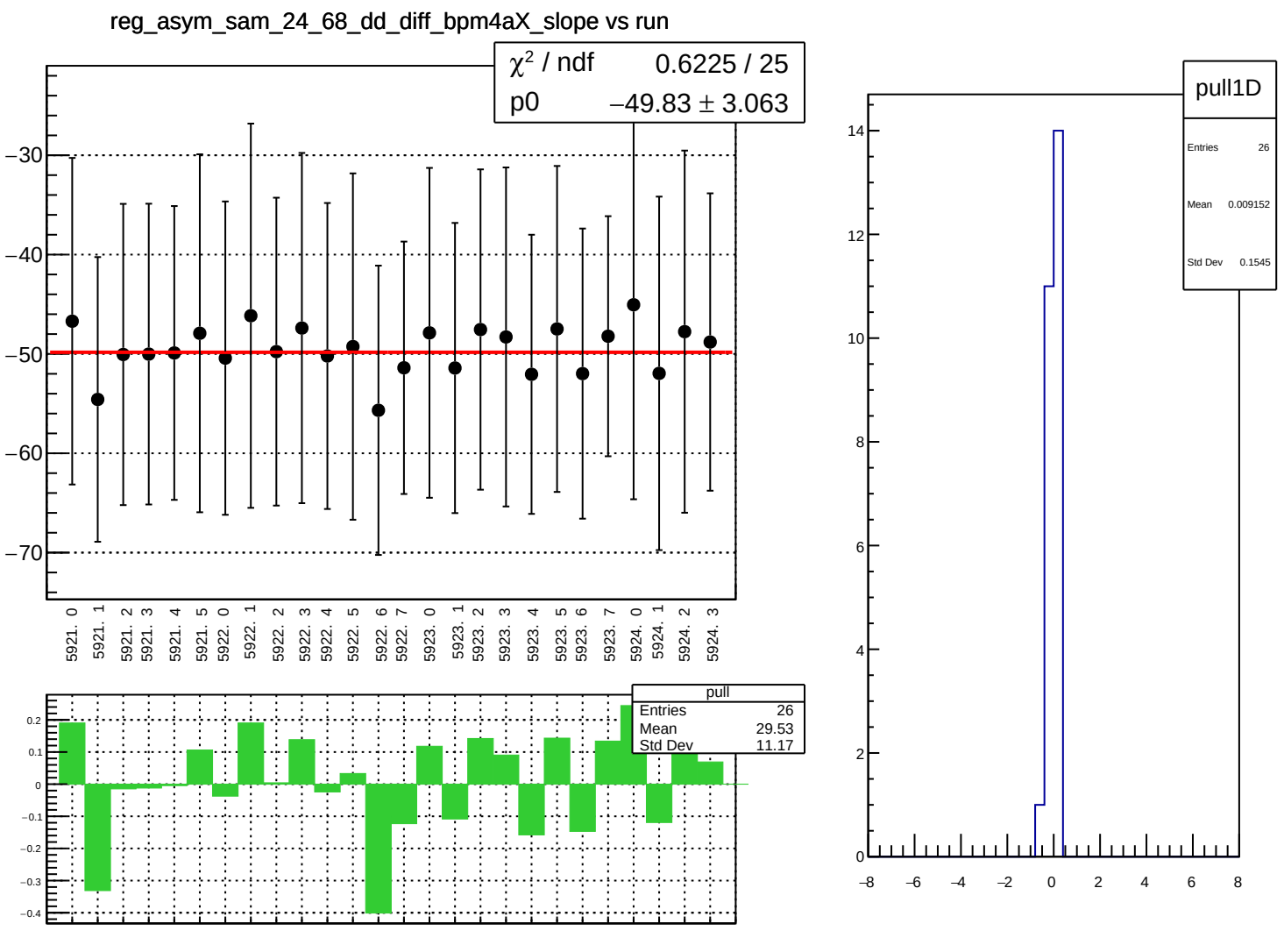

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6166 / 25
p0 33.33 ± 1.66
45
40
35
30
25
20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 28.69
Std Dev 10.01
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

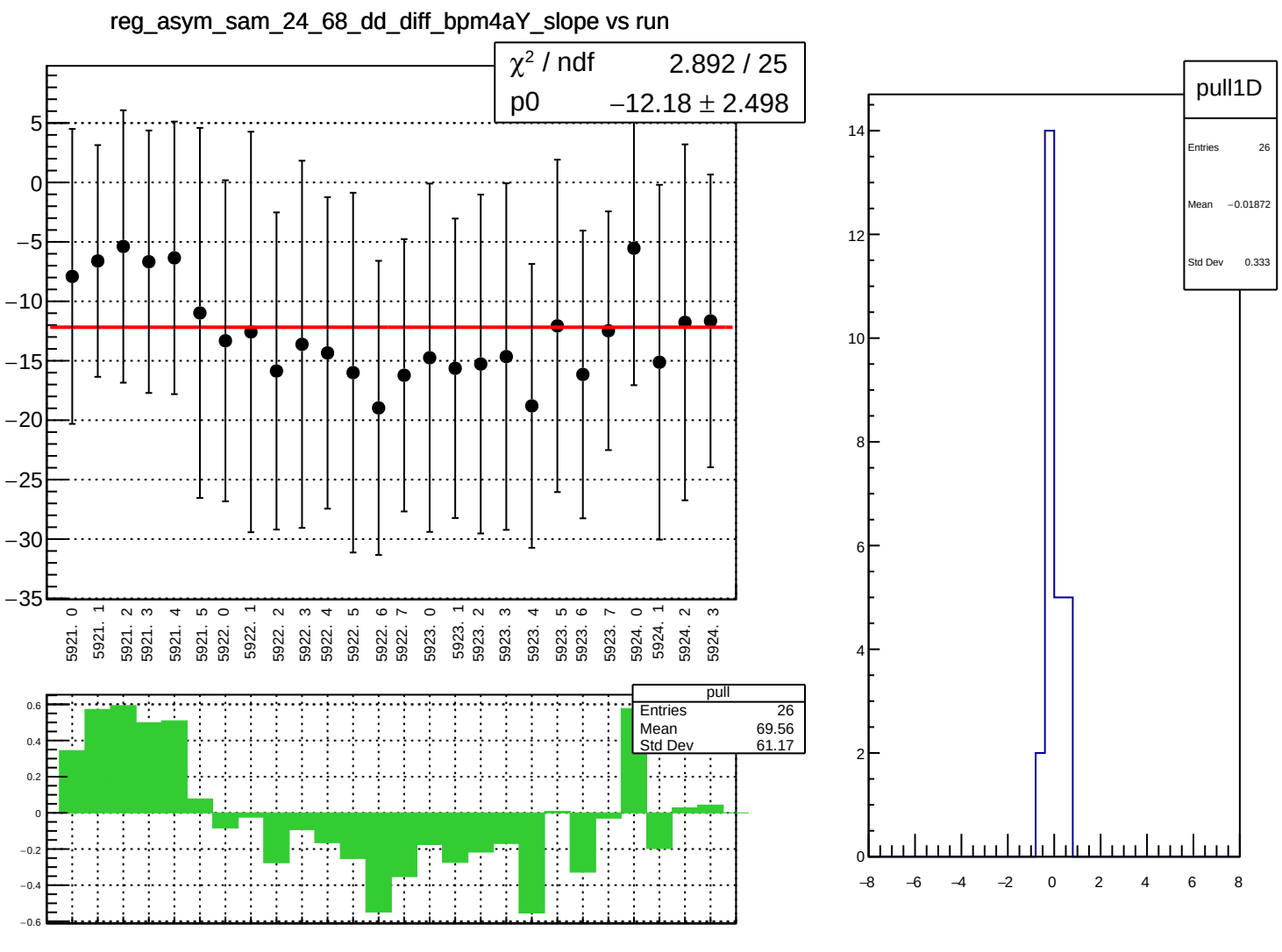

pull1D
Entries 26
Mean 0.004779
Std Dev 0.1539
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

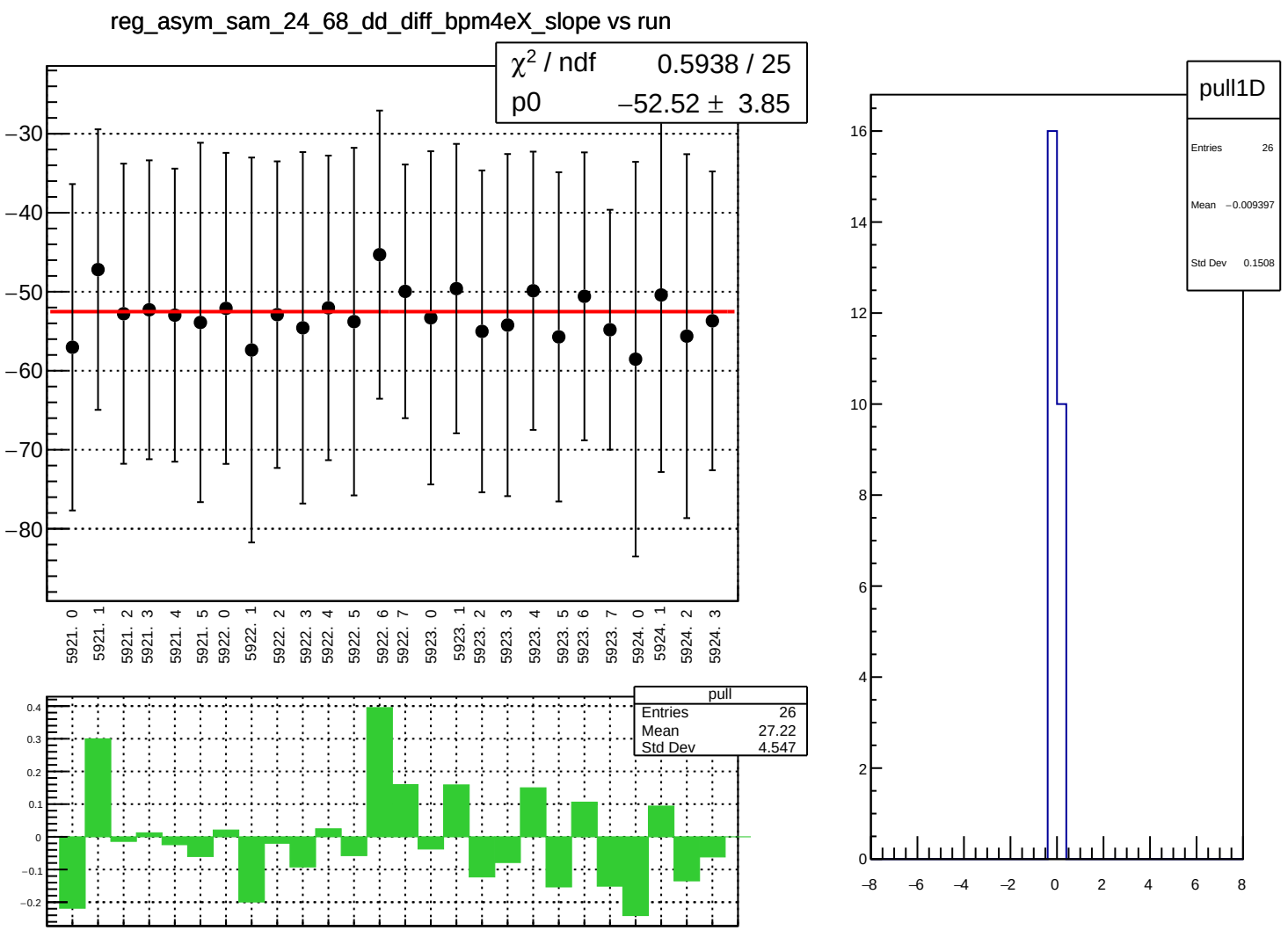

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.136 / 25
p0 25.27 ± 1.185
35
30
25
20
15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.71
Std Dev 75.26
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

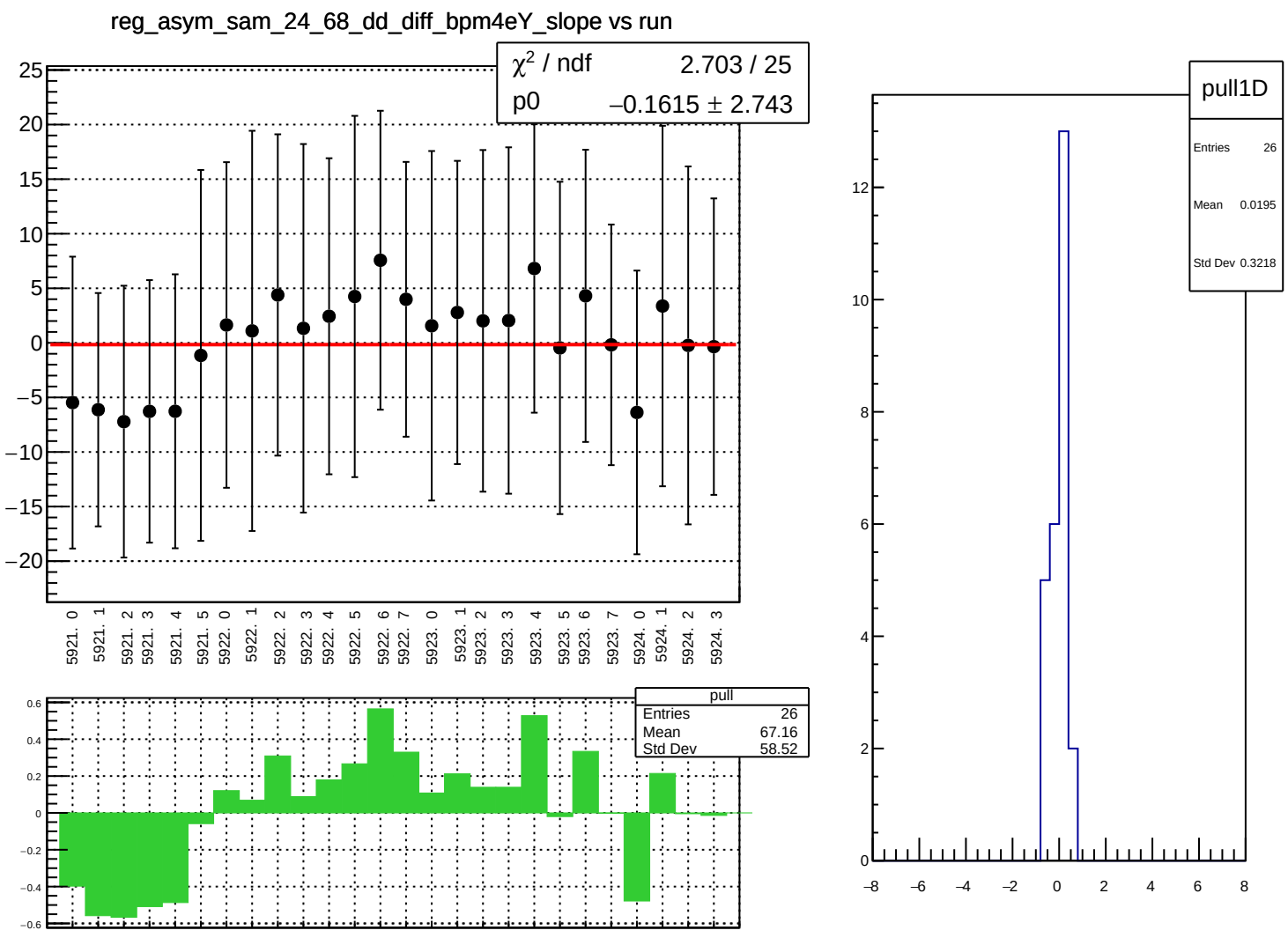

pull1D
Entries 26
Mean −0.02671
Std Dev 0.4851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

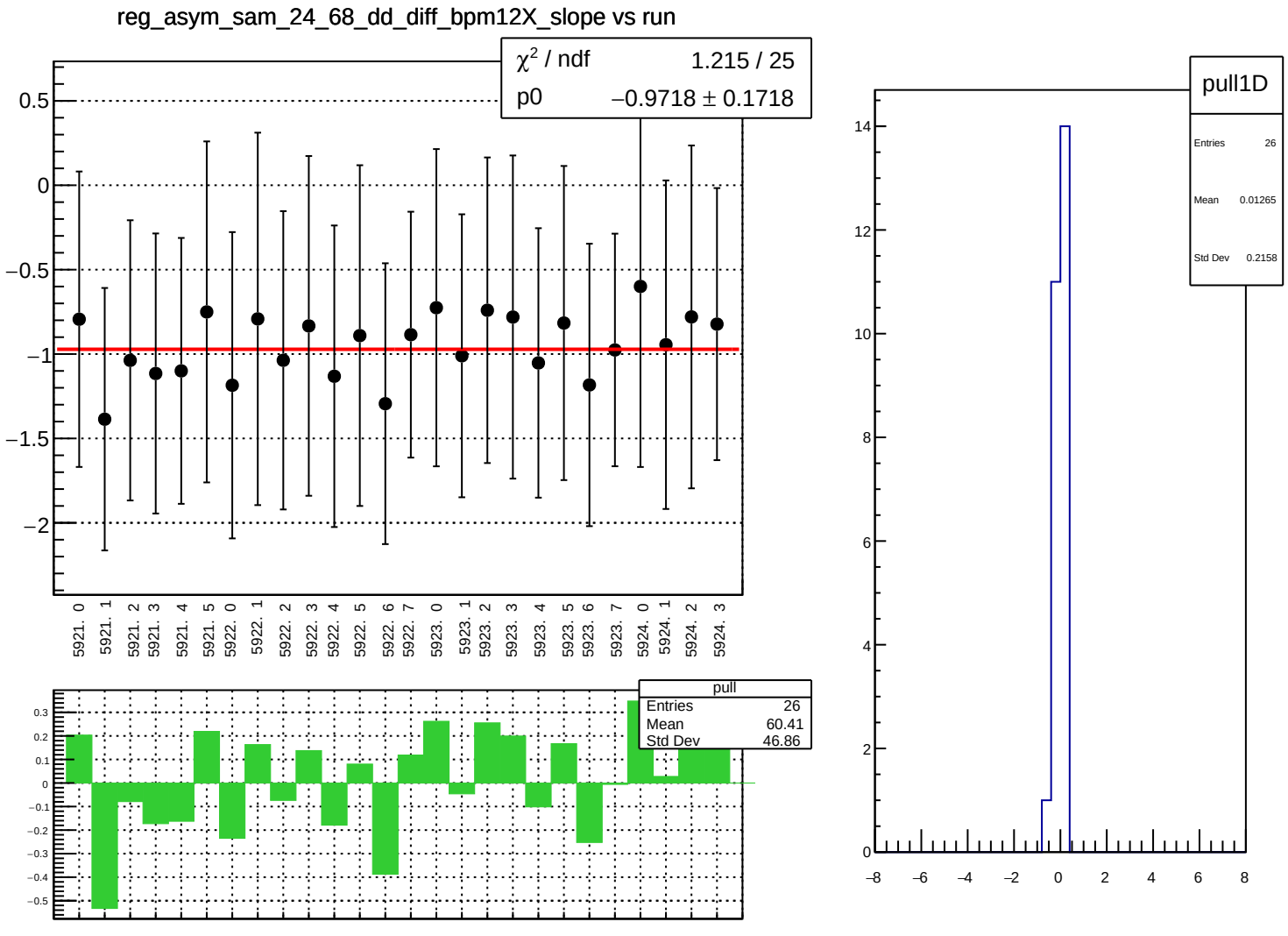

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.629 / 25
p0 0.4201± 0.07399
pull
Entries 26
Mean 522.4
Std Dev 510
pull1D
Entries 26
Mean −0.001959
Std Dev 0.2503

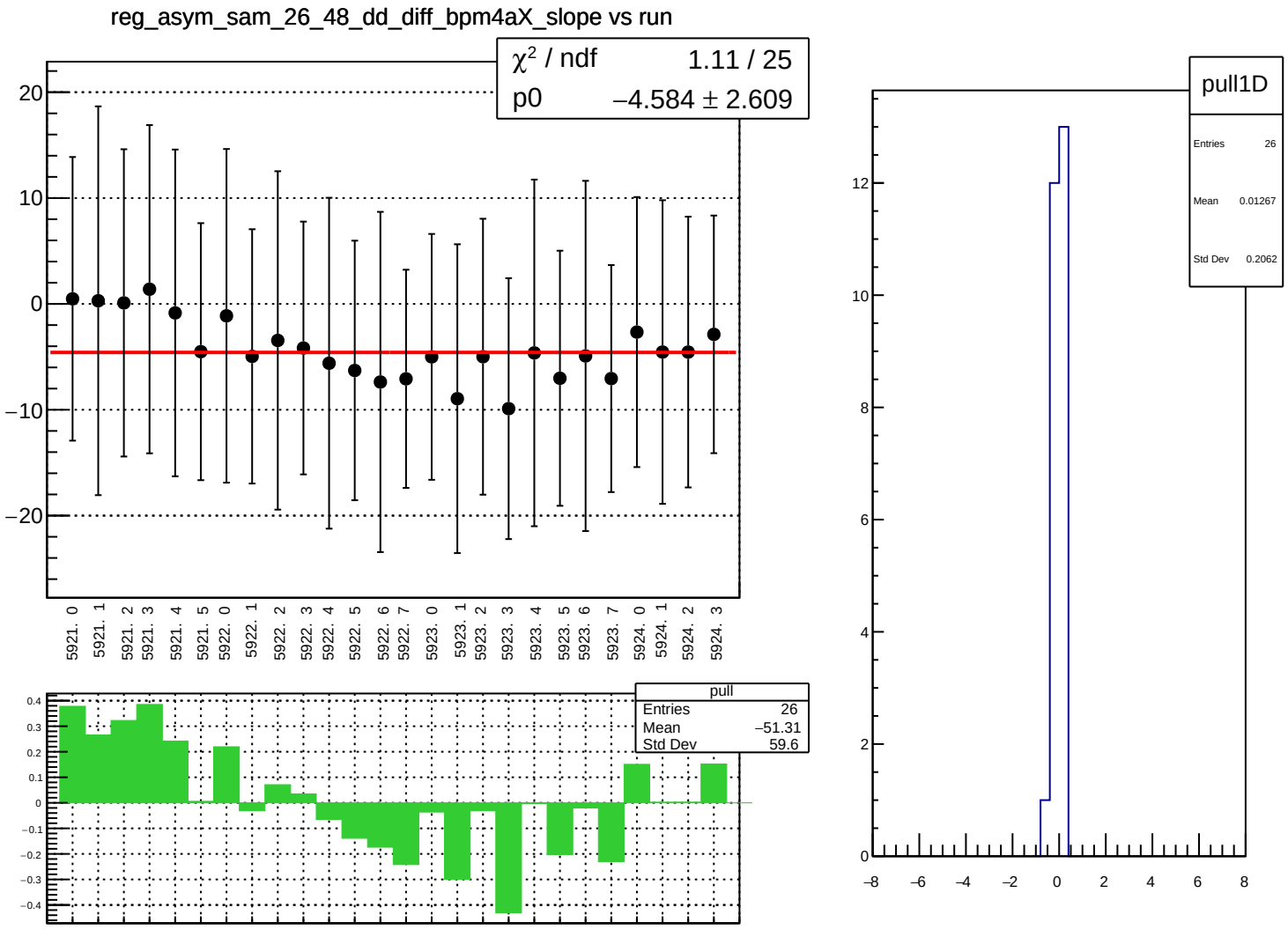

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.6225 / 25
p0 −49.83 ± 3.063
−30
−40
−50
−60
−70
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 29.53
Std Dev 11.17
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.009152
Std Dev 0.1545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

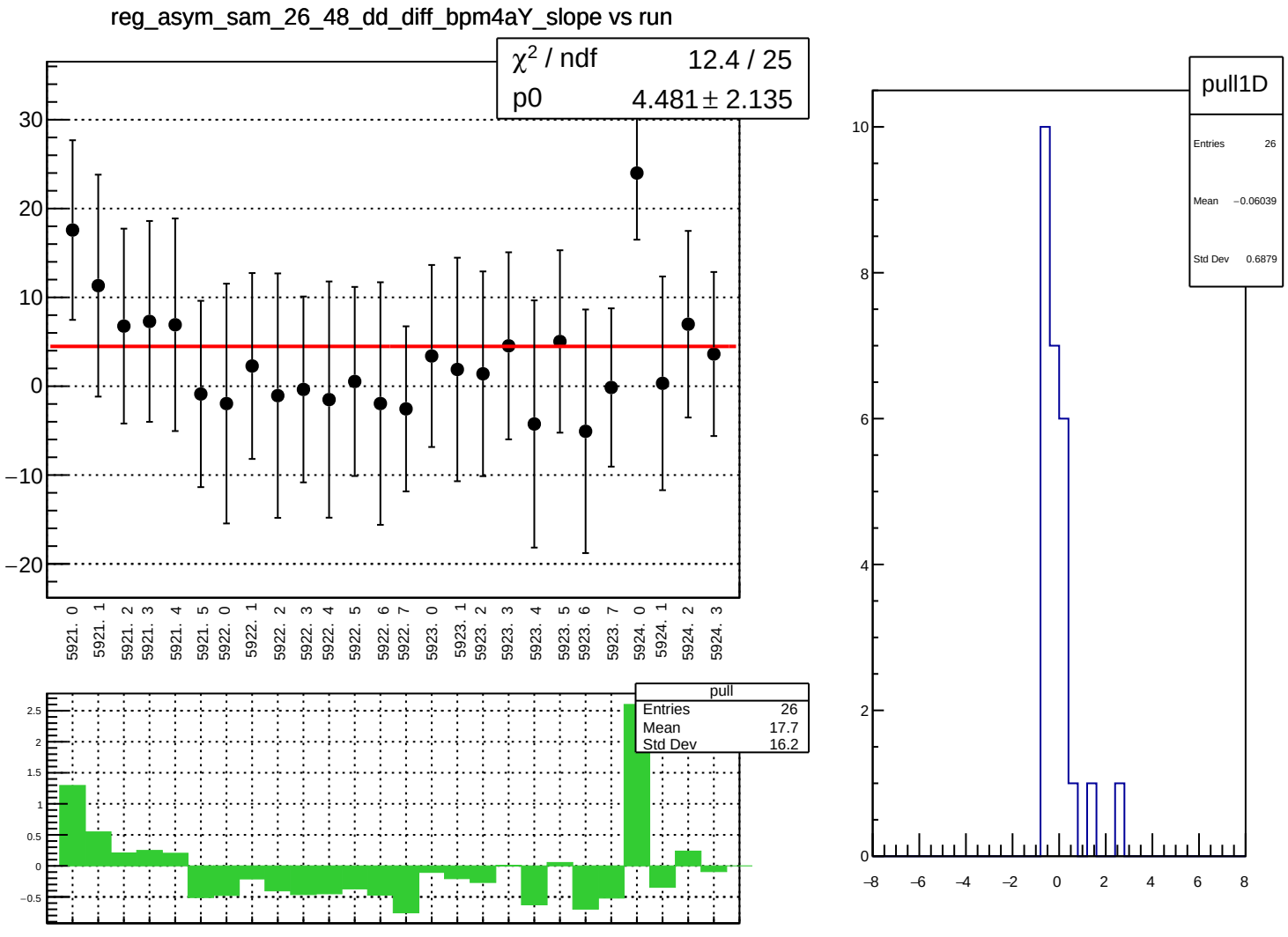

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.892 / 25
p0 −12.18 ± 2.498
pull
Entries 26
Mean 69.56
Std Dev 61.17
pull1D
Entries 26
Mean −0.01872
Std Dev 0.333

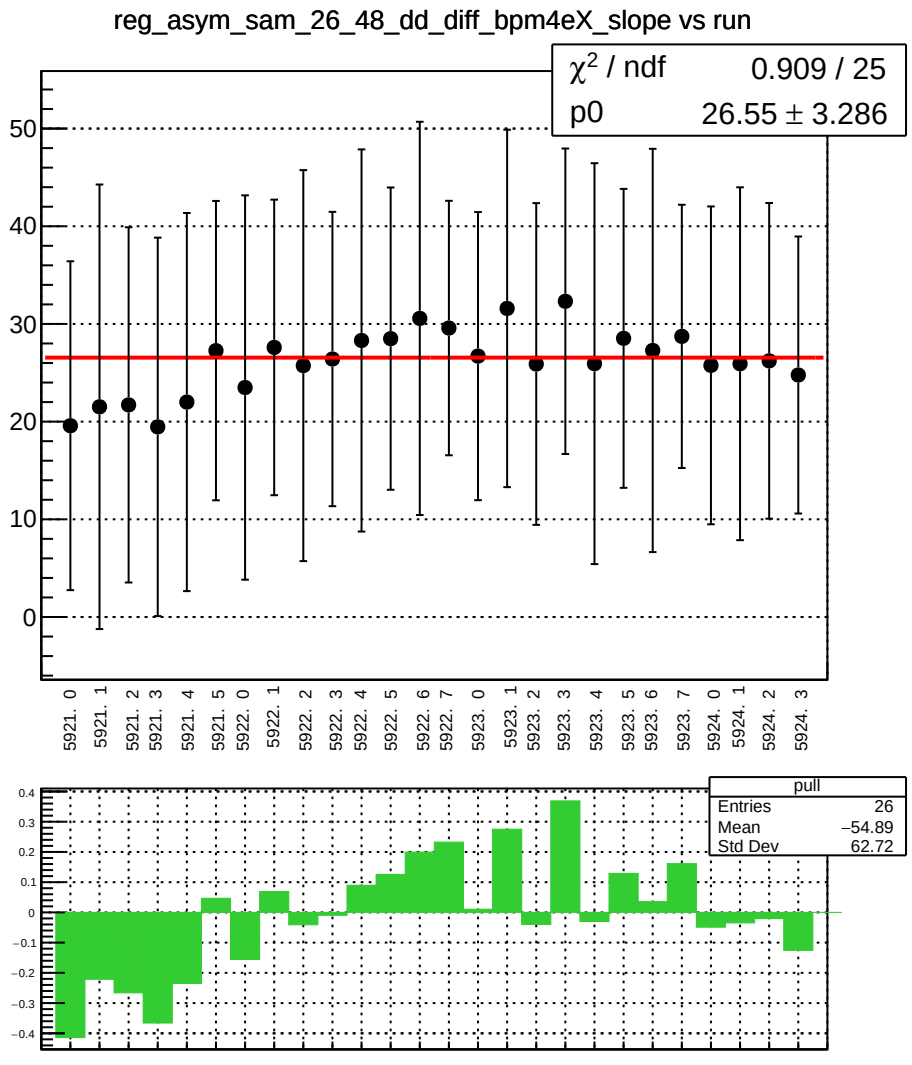

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5938 / 25
p0 −52.52 ± 3.85
−30
−40
−50
−60
−70
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 27.22
Std Dev 4.547
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 26
Mean −0.009397
Std Dev 0.1508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

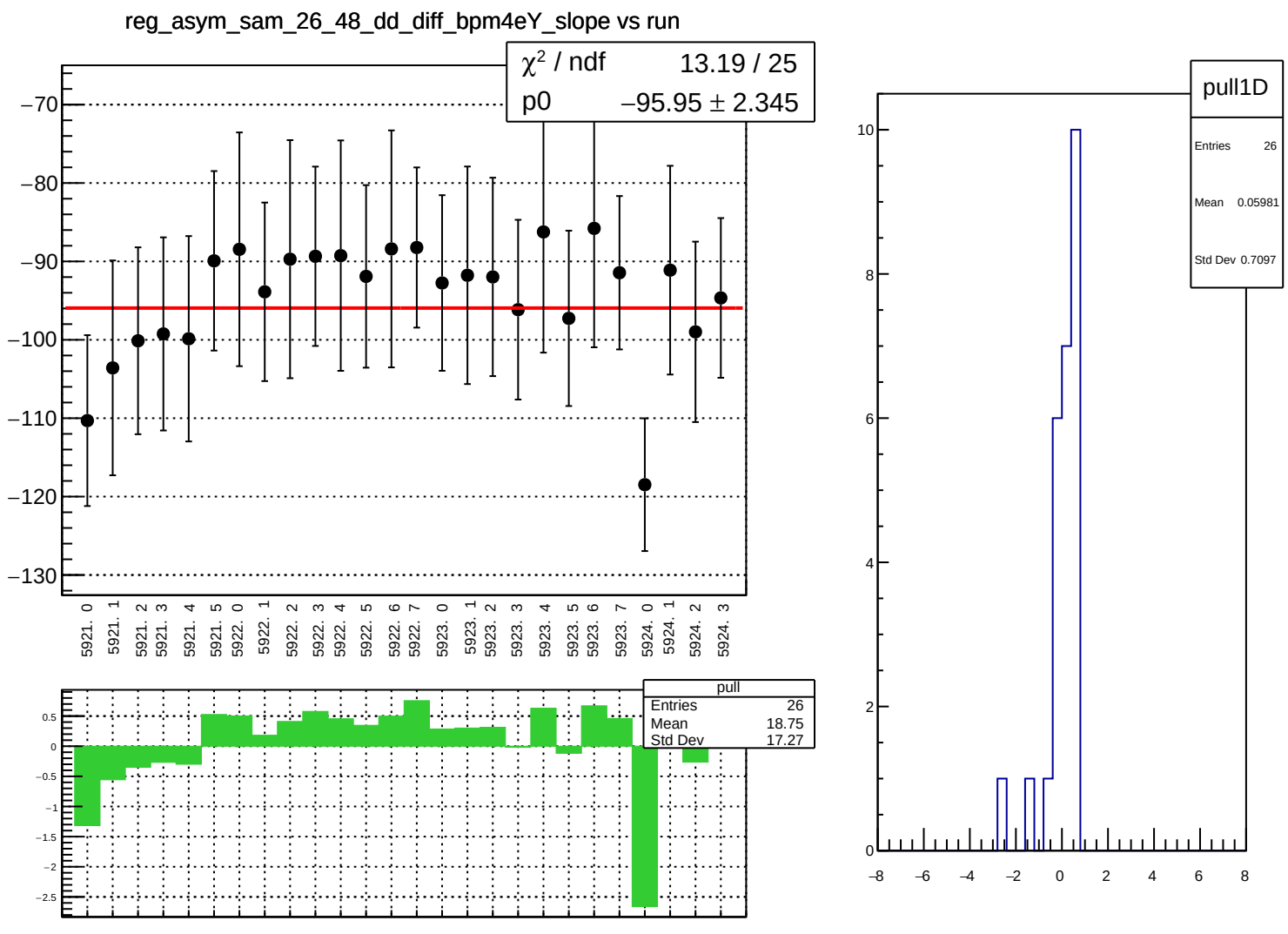

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.703 / 25
p0 −0.1615 ± 2.743
pull
Entries 26
Mean 67.16
Std Dev 58.52
pull1D
Entries 26
Mean 0.0195
Std Dev 0.3218

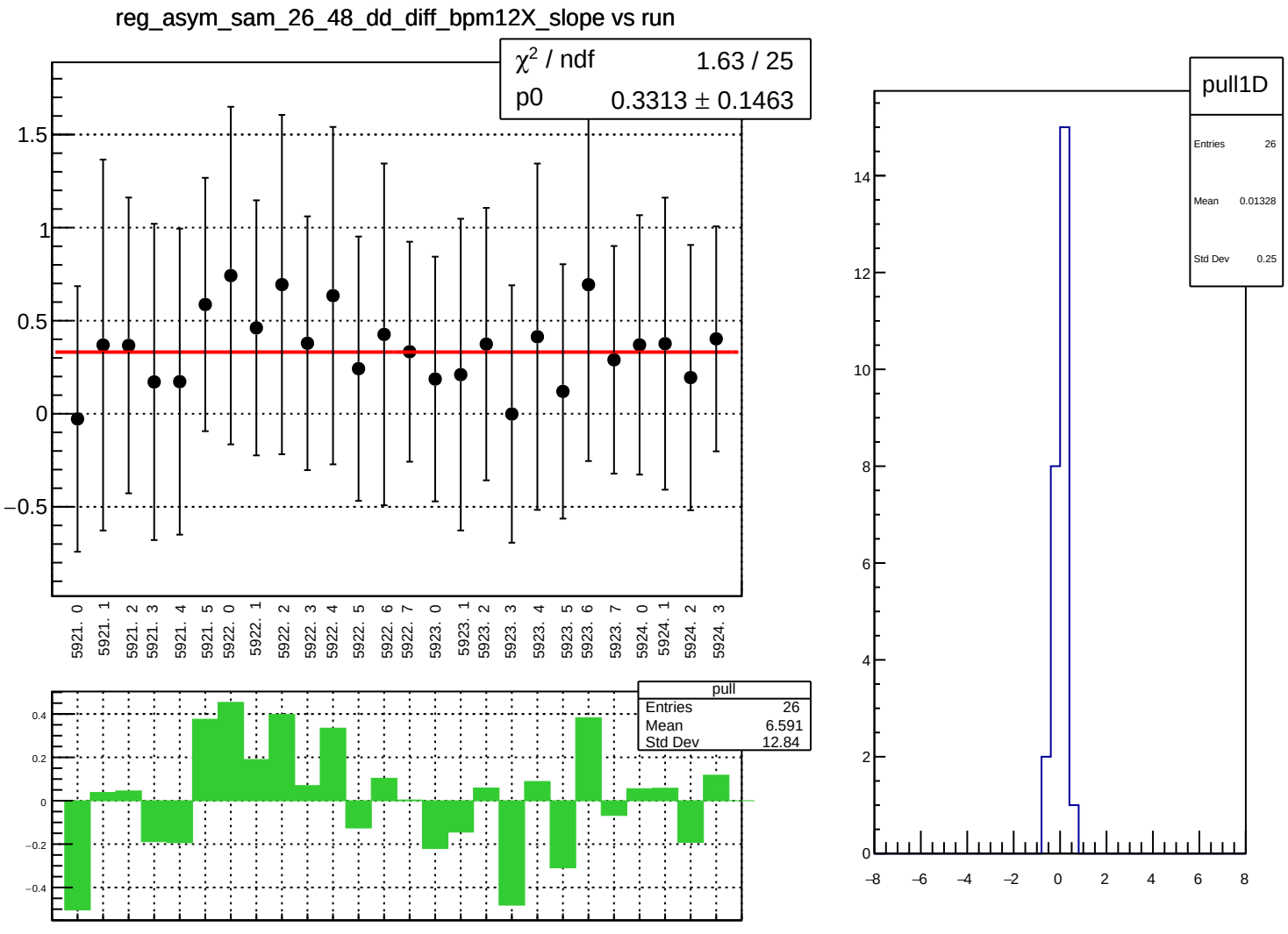

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.215 / 25
p0 −0.9718 ± 0.1718
0.5
0
−0.5
−1
−1.5
−2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 60.41
Std Dev 46.86
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 26
Mean 0.01265
Std Dev 0.2158
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

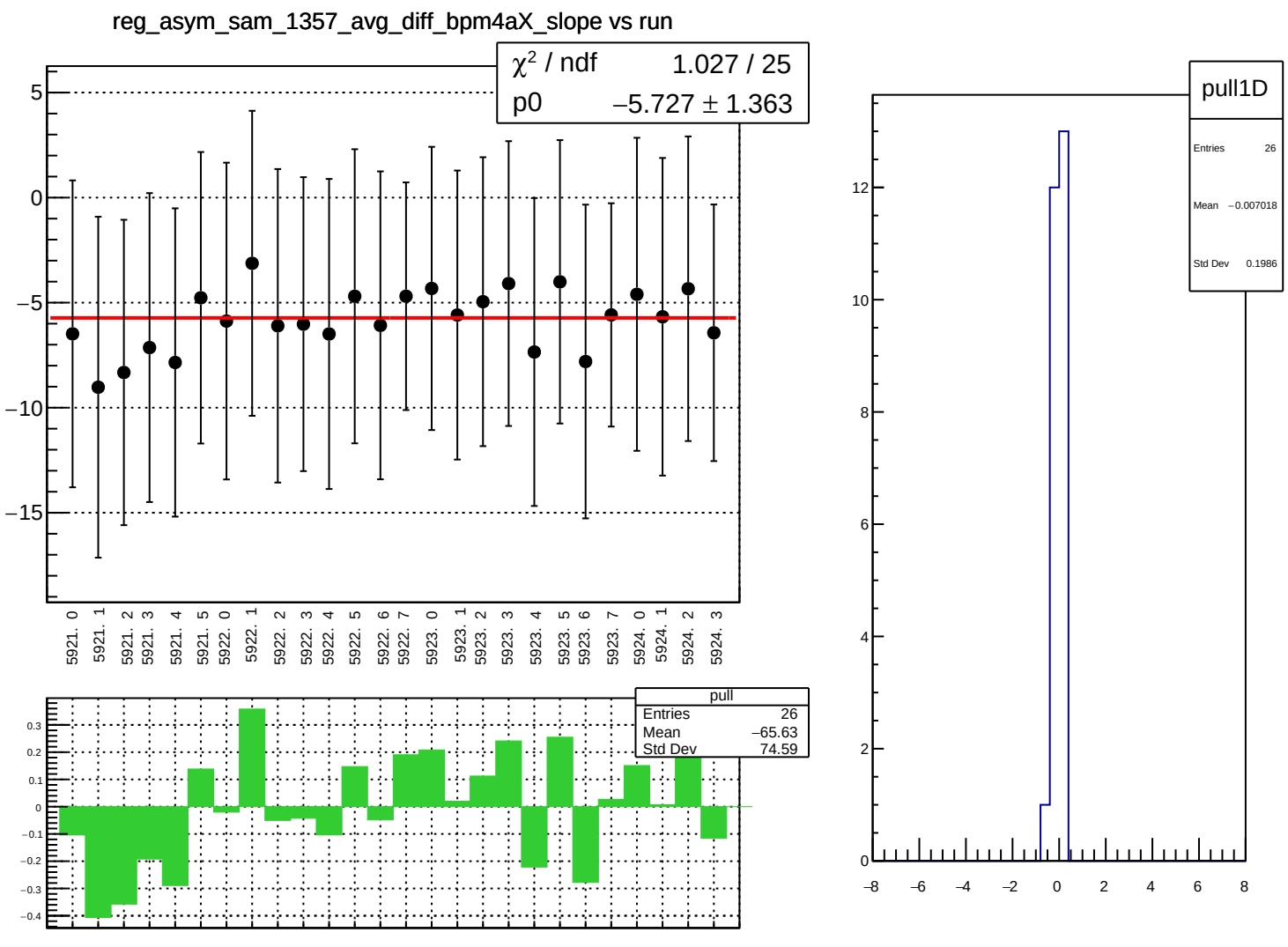

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.11 / 25
p0 −4.584 ± 2.609
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −51.31
Std Dev 59.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean 0.01267
Std Dev 0.2062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

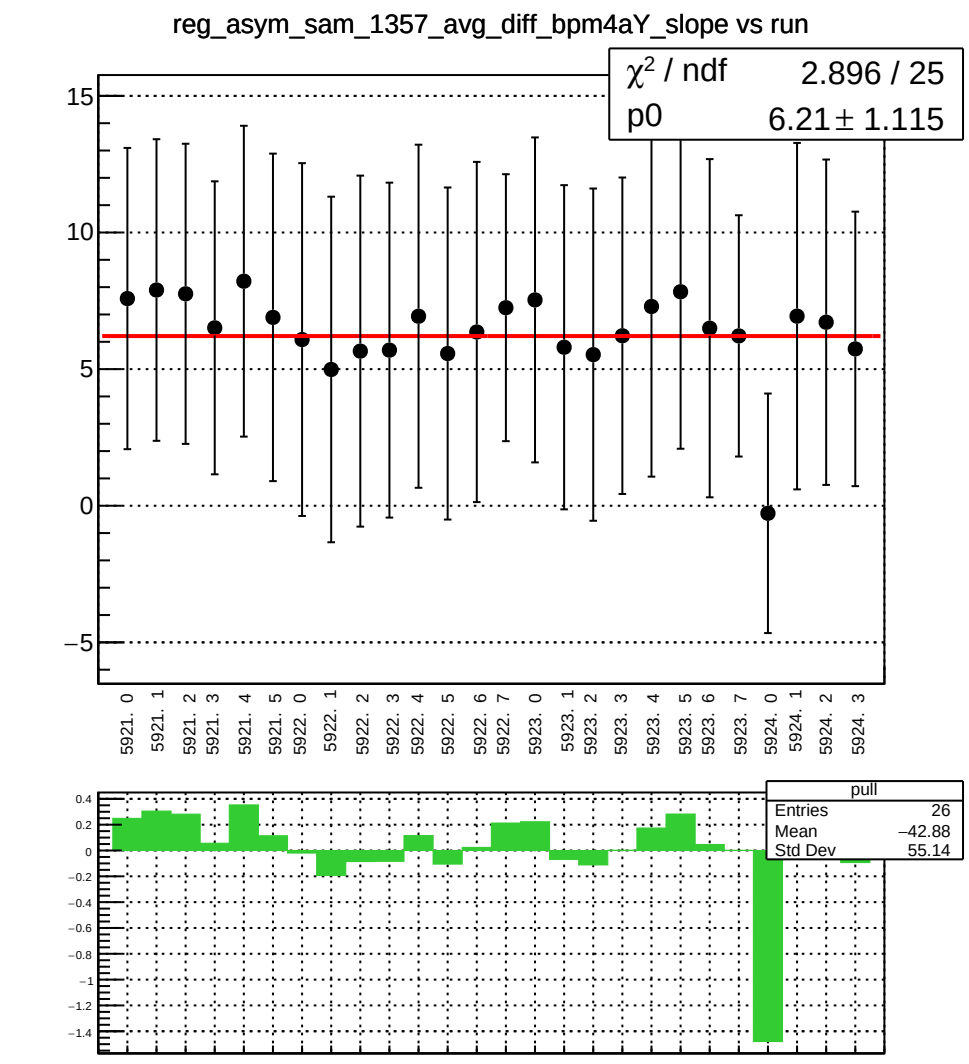

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.4 / 25
p0 4.481 ± 2.135
30
20
10
0
−10
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 17.7
Std Dev 16.2
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.06039
Std Dev 0.6879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

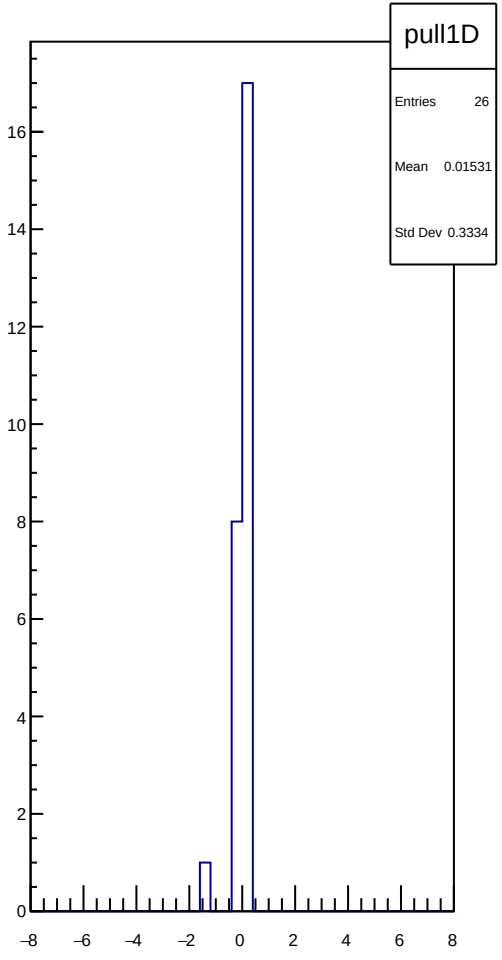

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.909 / 25
p0 26.55 ± 3.286
pull
Entries 26
Mean −54.89
Std Dev 62.72
pull1D
Entries 26
Mean −0.01019
Std Dev 0.1867

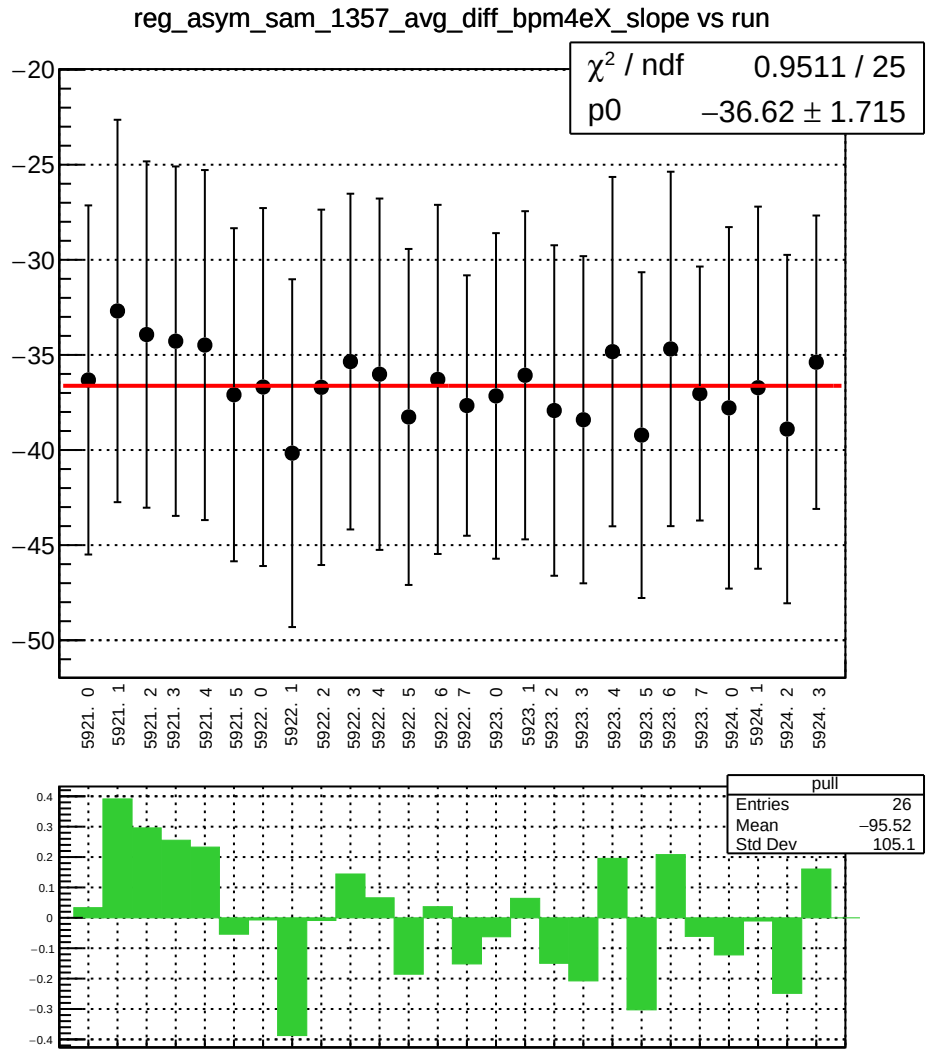

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.19 / 25
p0 −95.95 ± 2.345
−70
−80
−90
−100
−110
−120
−130
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 18.75
Std Dev 17.27
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean 0.05981
Std Dev 0.7097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

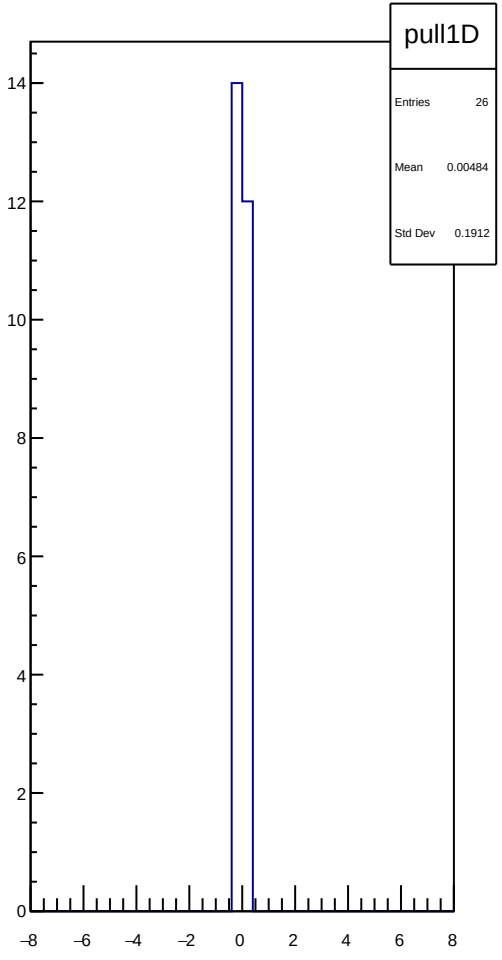

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.63 / 25
p0 0.3313 ± 0.1463
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 6.591
Std Dev 12.84
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean 0.01328
Std Dev 0.25
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

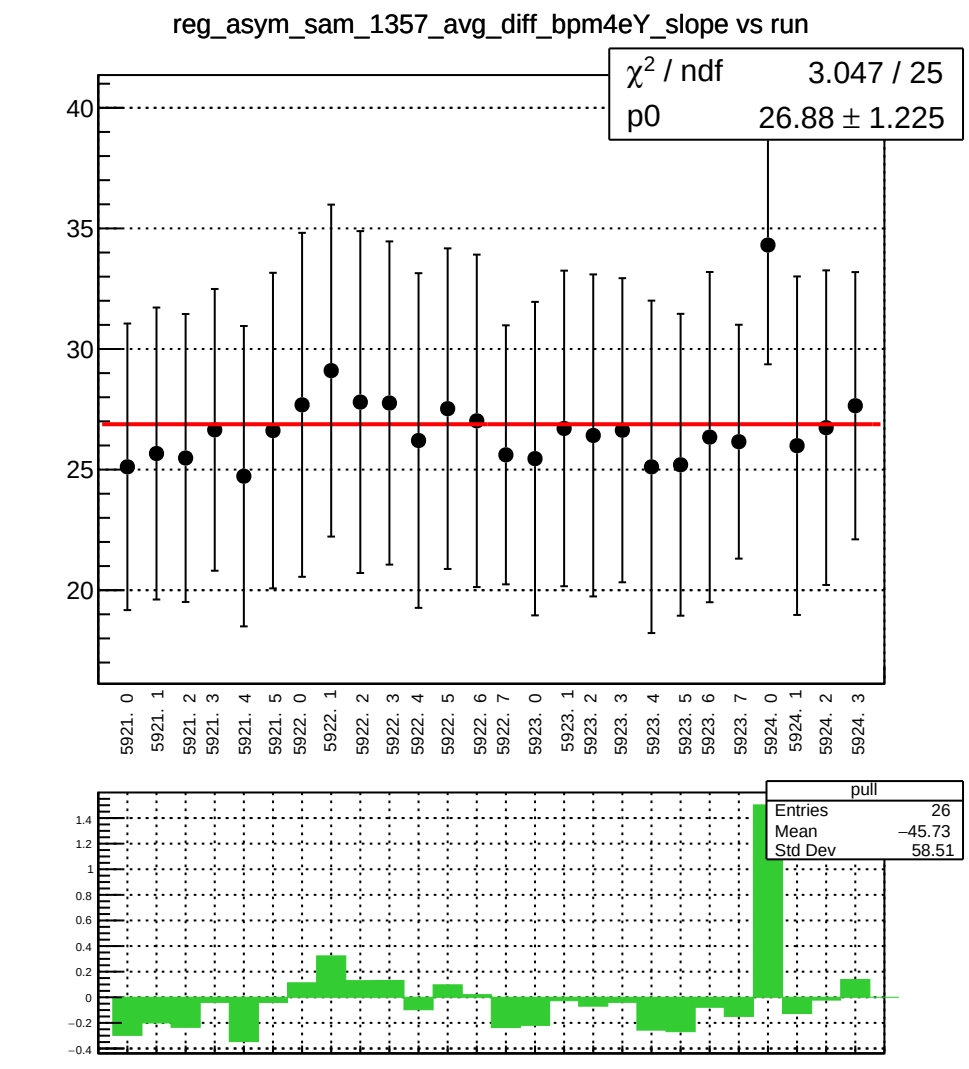

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.027 / 25
p0 −5.727 ± 1.363
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −65.63
Std Dev 74.59
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 26
Mean −0.007018
Std Dev 0.1986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

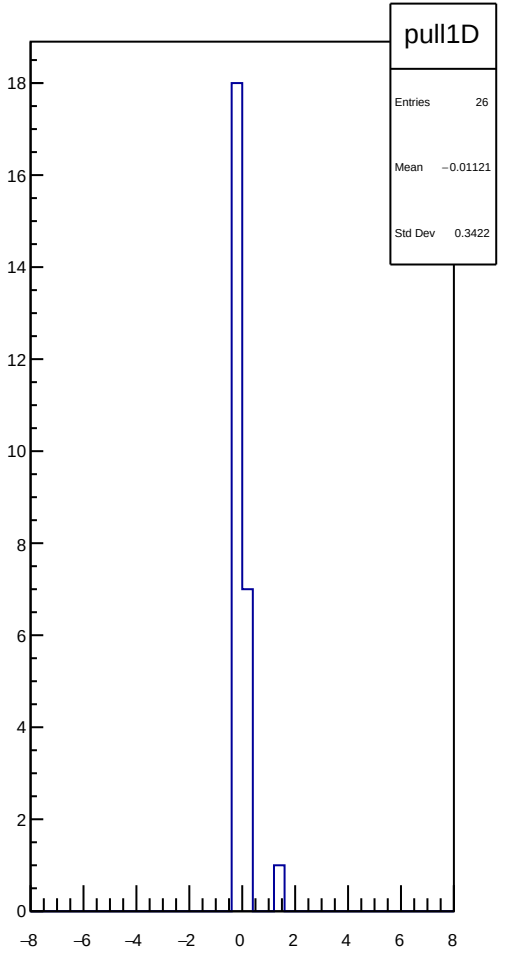

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.896 / 25
p0 6.21 ± 1.115
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −42.88
Std Dev 55.14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

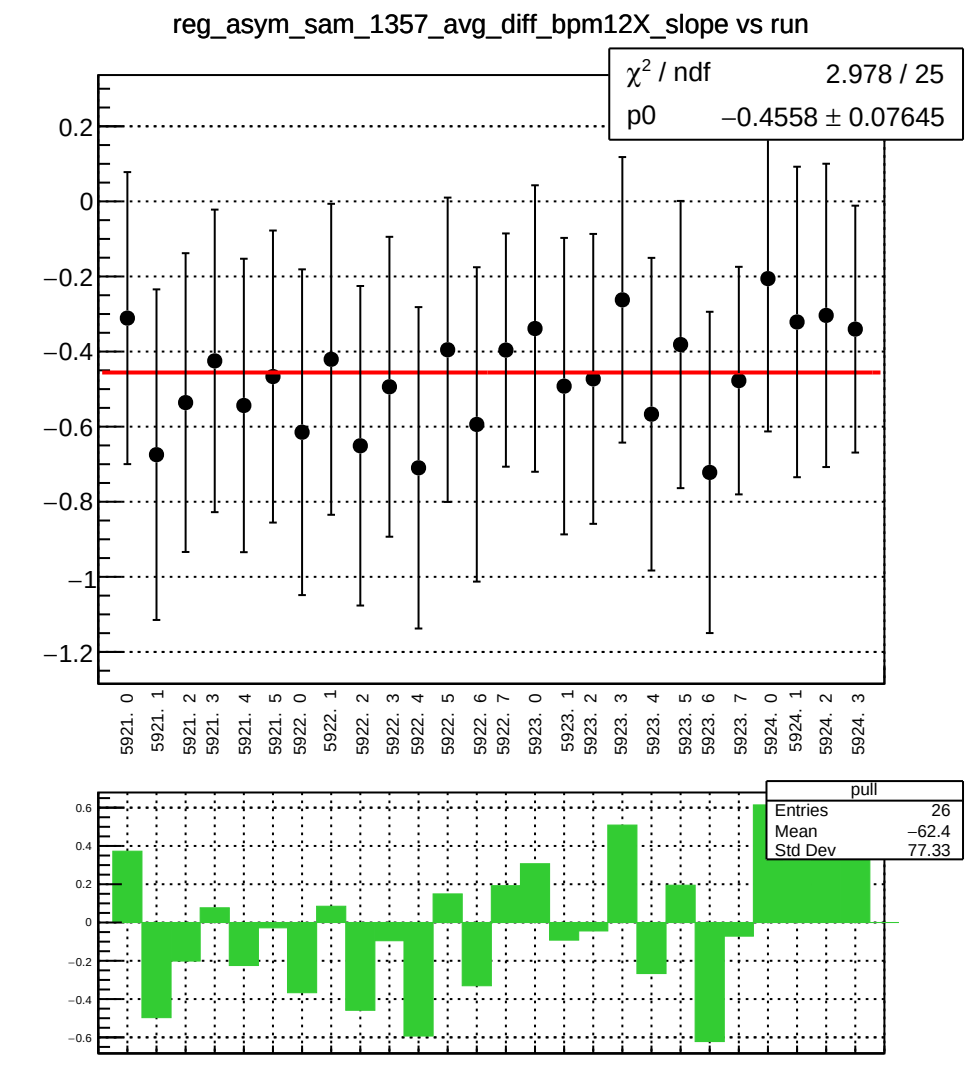

pull1D
Entries 26
Mean 0.01531
Std Dev 0.3334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

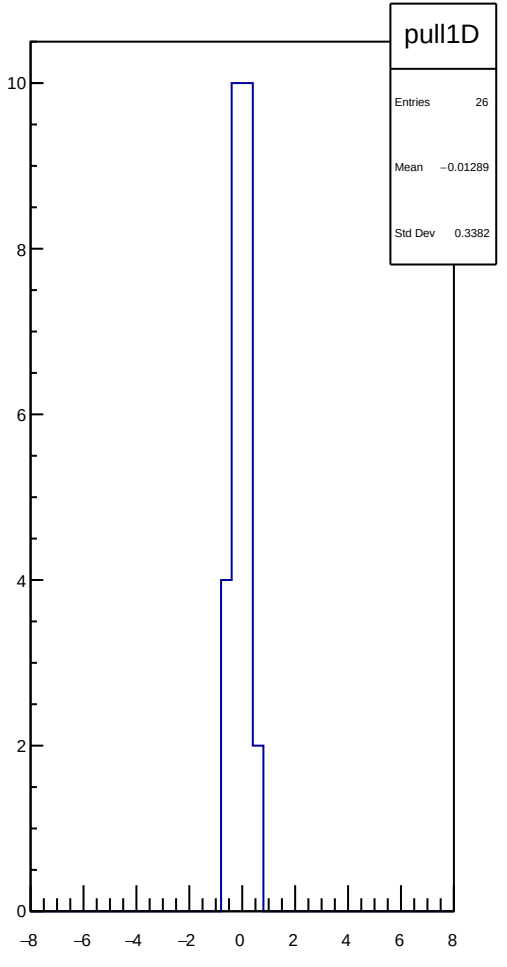

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9511 / 25
p0 −36.62 ± 1.715
−20
−25
−30
−35
−40
−45
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −95.52
Std Dev 105.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

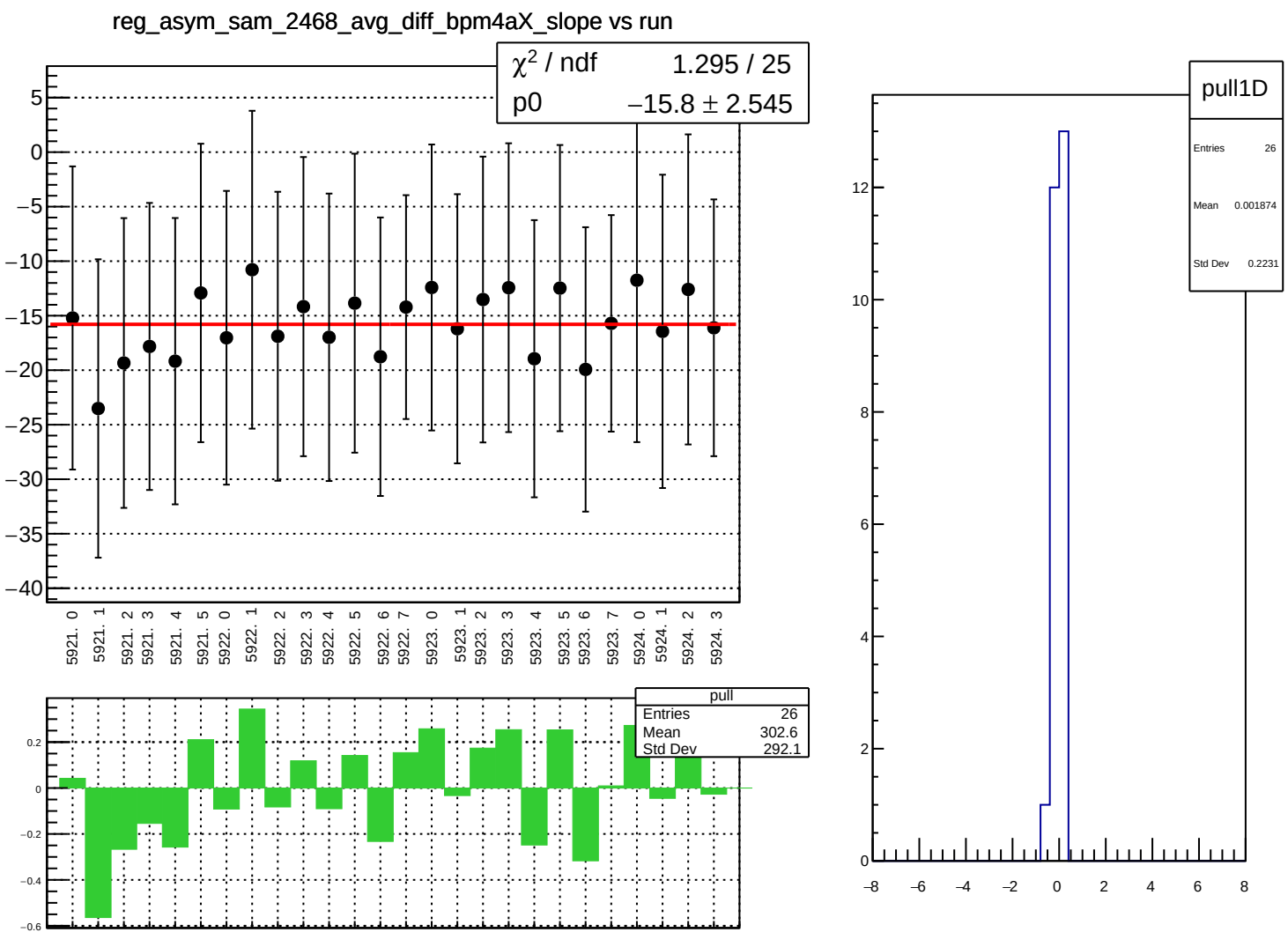

pull1D
Entries 26
Mean 0.00484
Std Dev 0.1912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

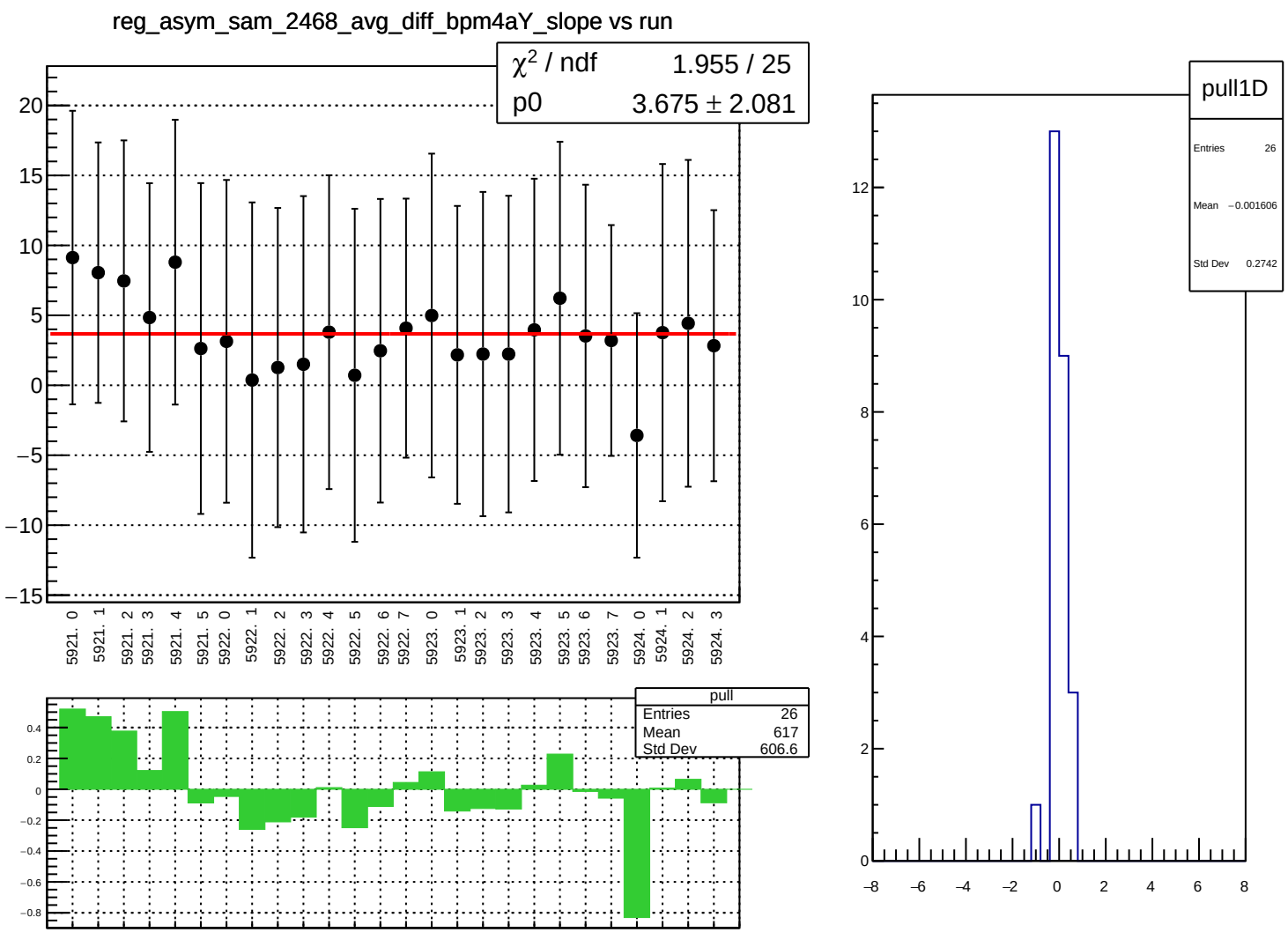

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.047 / 25
p0 26.88 ± 1.225
40
35
30
25
20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −45.73
Std Dev 58.51
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

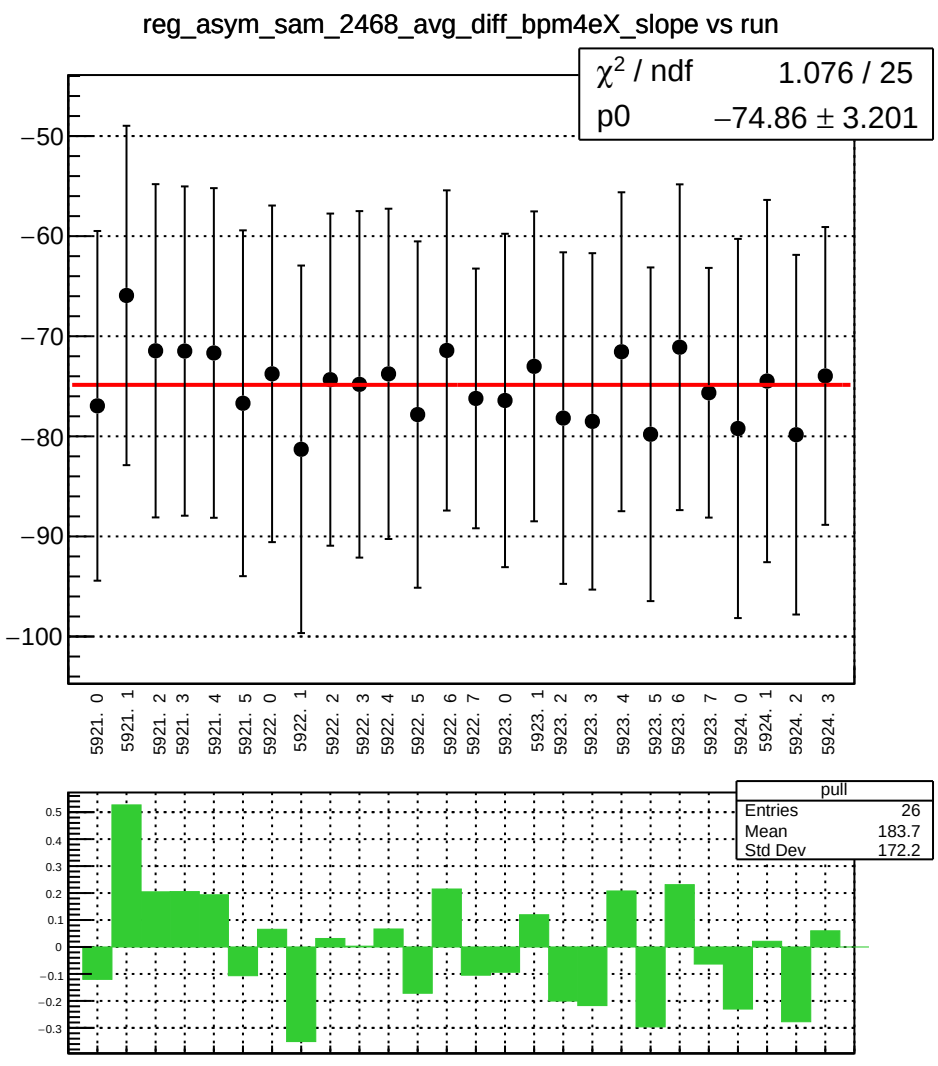

pull1D
Entries 26
Mean −0.01121
Std Dev 0.3422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

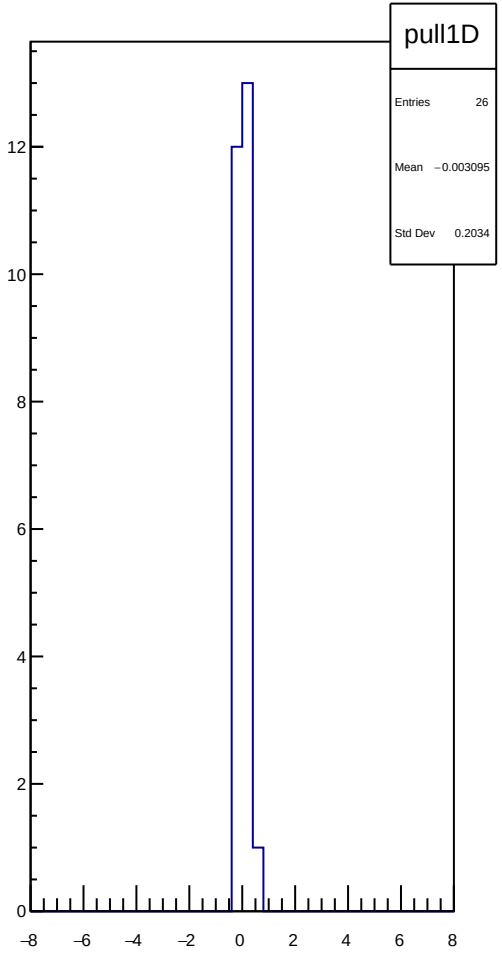

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.978 / 25
p0 −0.4558 ± 0.07645
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −62.4
Std Dev 77.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

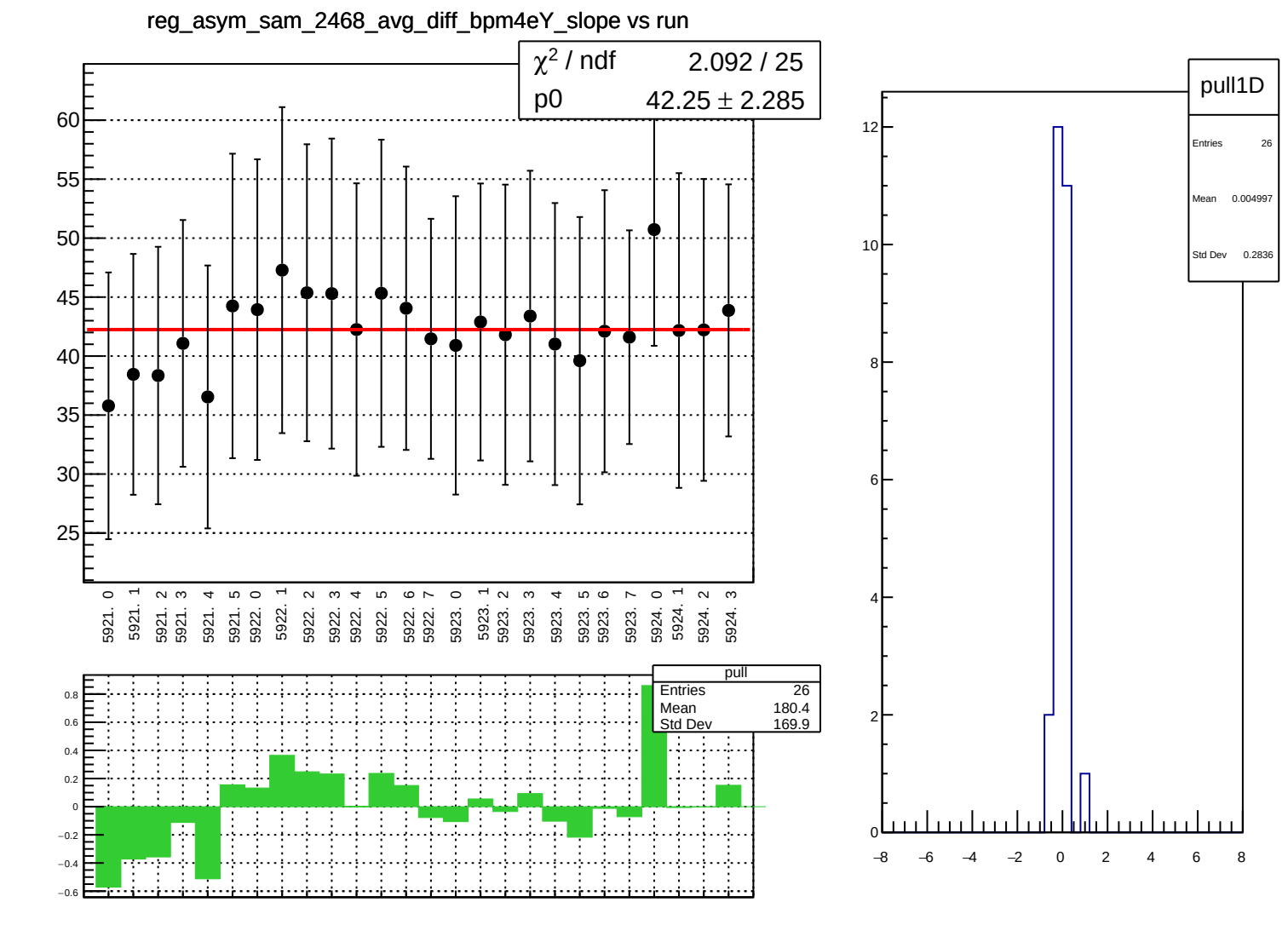

pull1D
Entries 26
Mean −0.01289
Std Dev 0.3382
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

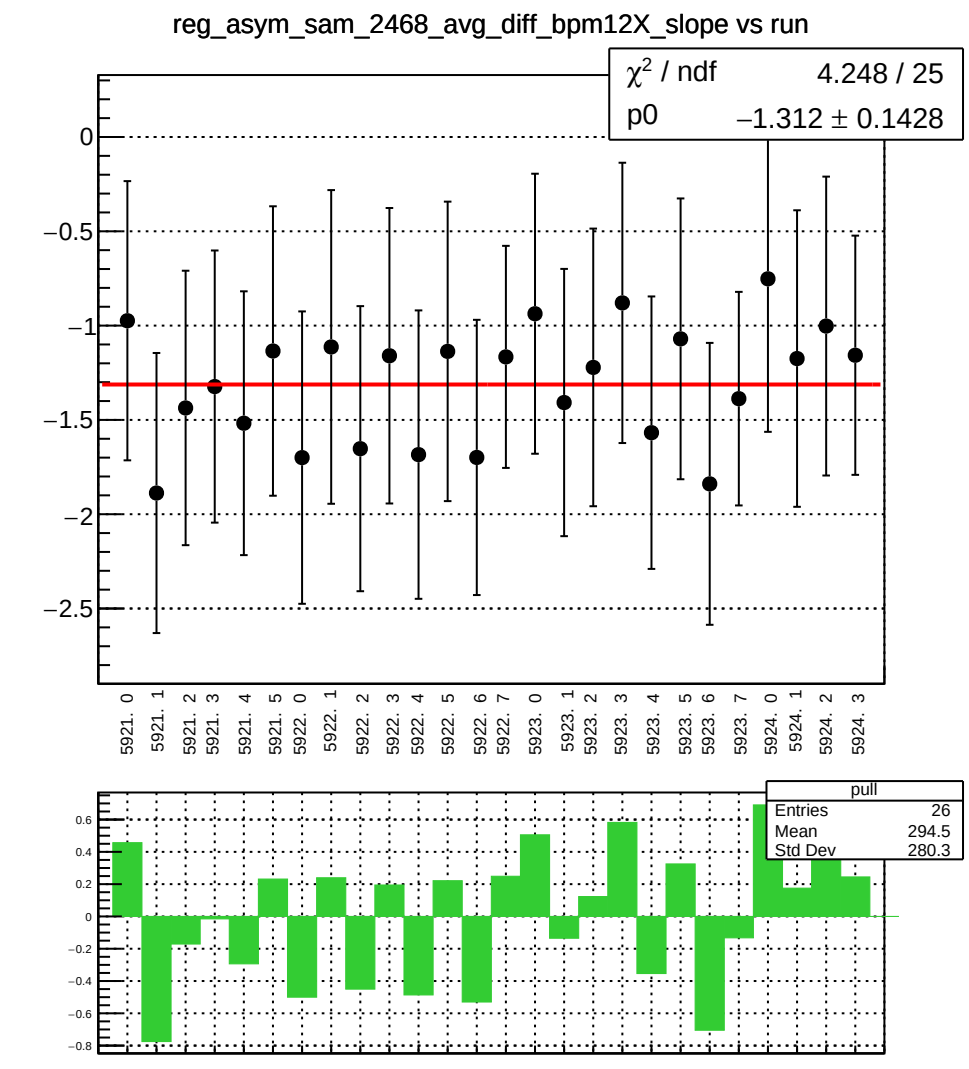

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.295 / 25
p0 −15.8 ± 2.545
5
0
−5
−10
−15
−20
−25
−30
−35
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 302.6
Std Dev 292.1
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.001874
Std Dev 0.2231
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

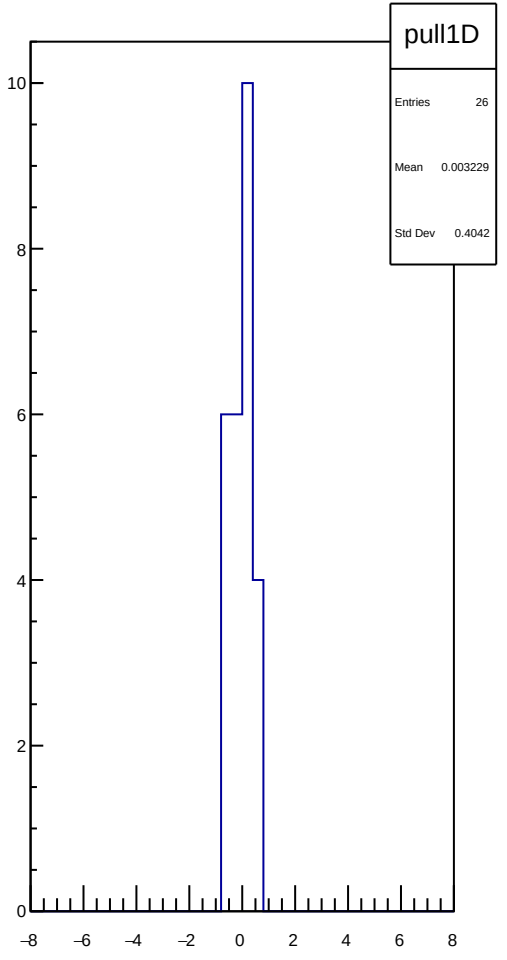

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.955 / 25
p0 3.675 ± 2.081
pull
Entries 26
Mean 617
Std Dev 606.6
pull1D
Entries 26
Mean −0.001606
Std Dev 0.2742

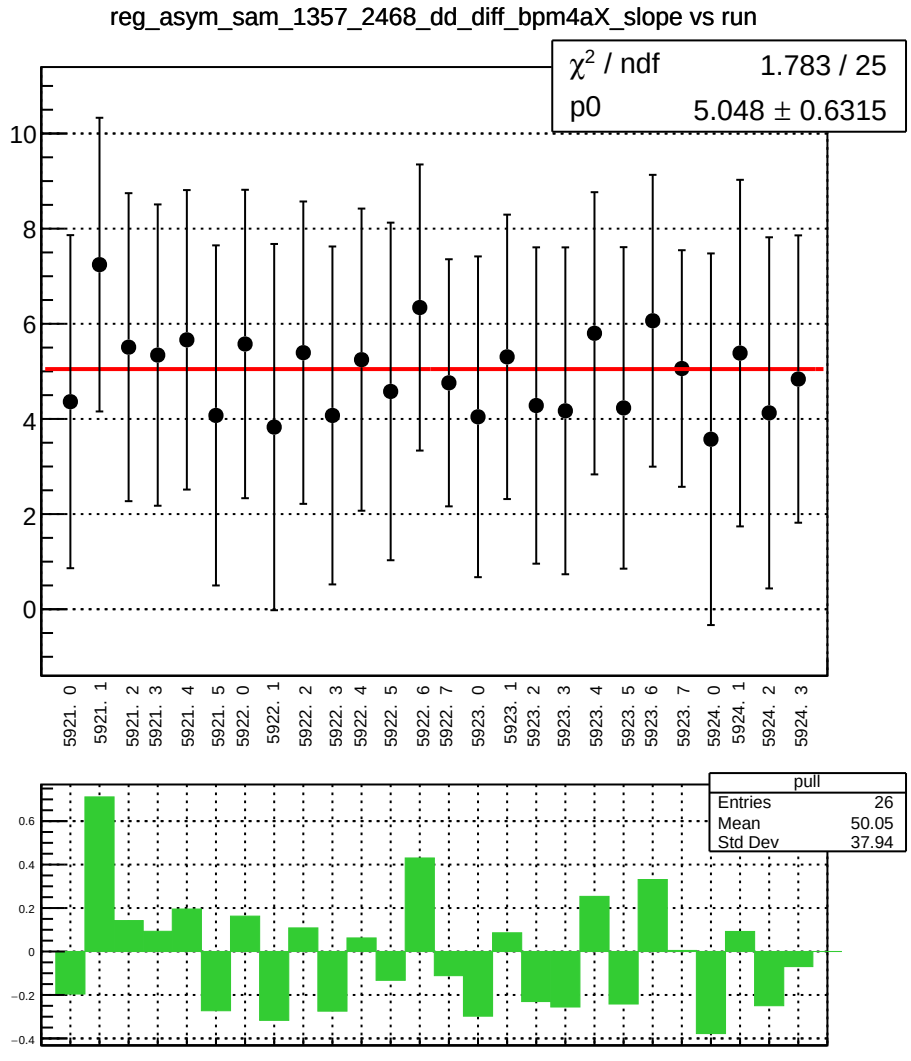

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.076 / 25
p0 −74.86 ± 3.201
−50
−60
−70
−80
−90
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 183.7
Std Dev 172.2
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

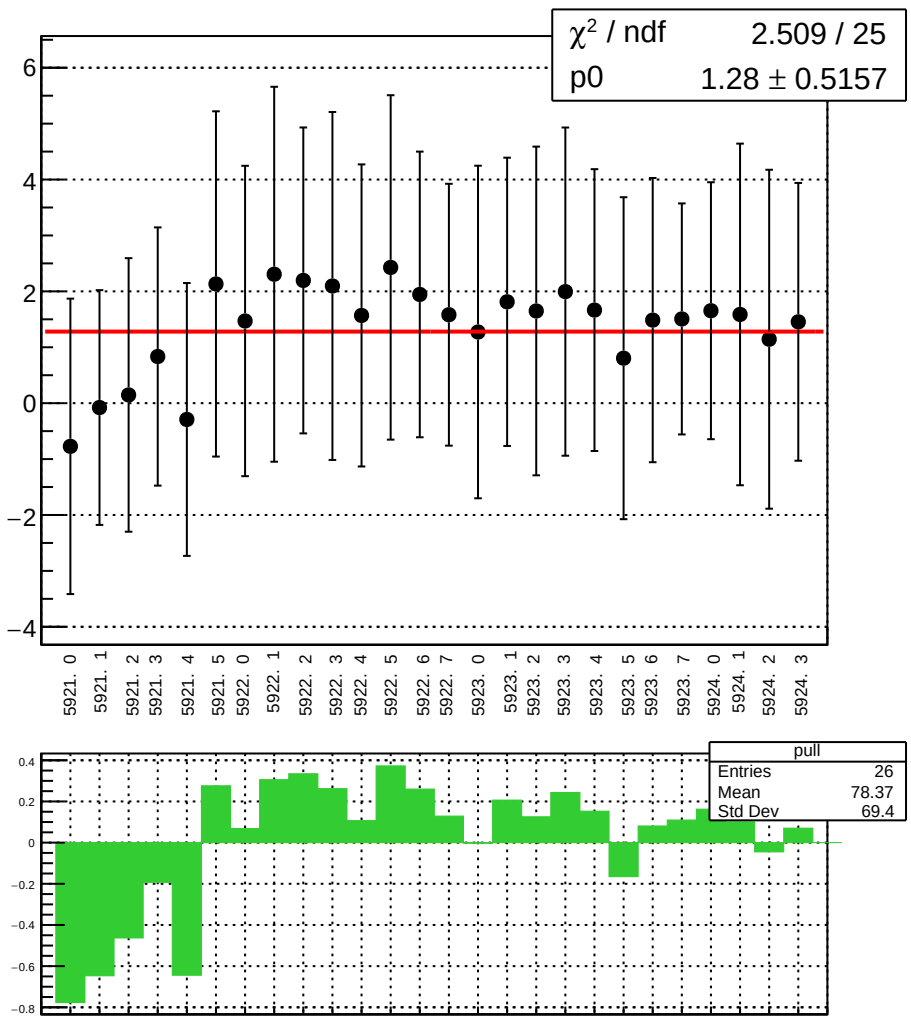

pull1D
Entries 26
Mean −0.003095
Std Dev 0.2034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

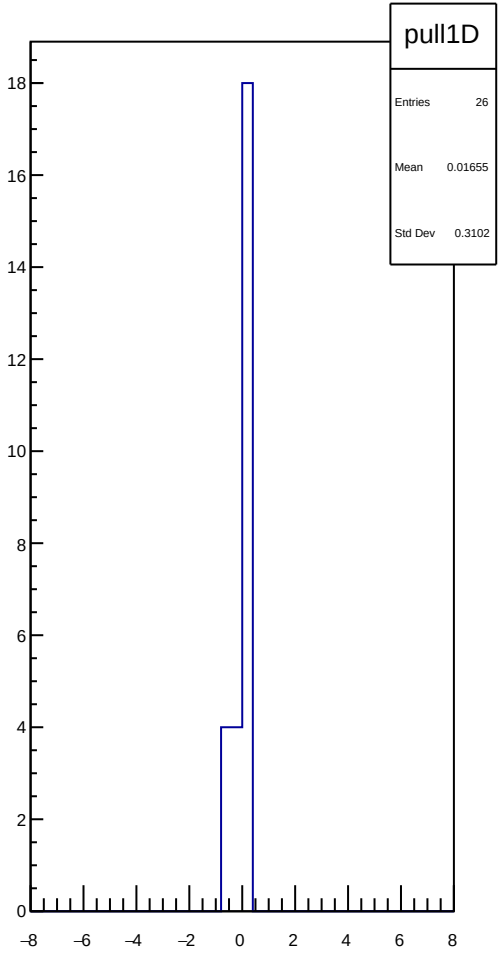

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.092 / 25
p0 42.25 ± 2.285
60
55
50
45
40
35
30
25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 180.4
Std Dev 169.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean 0.004997
Std Dev 0.2836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

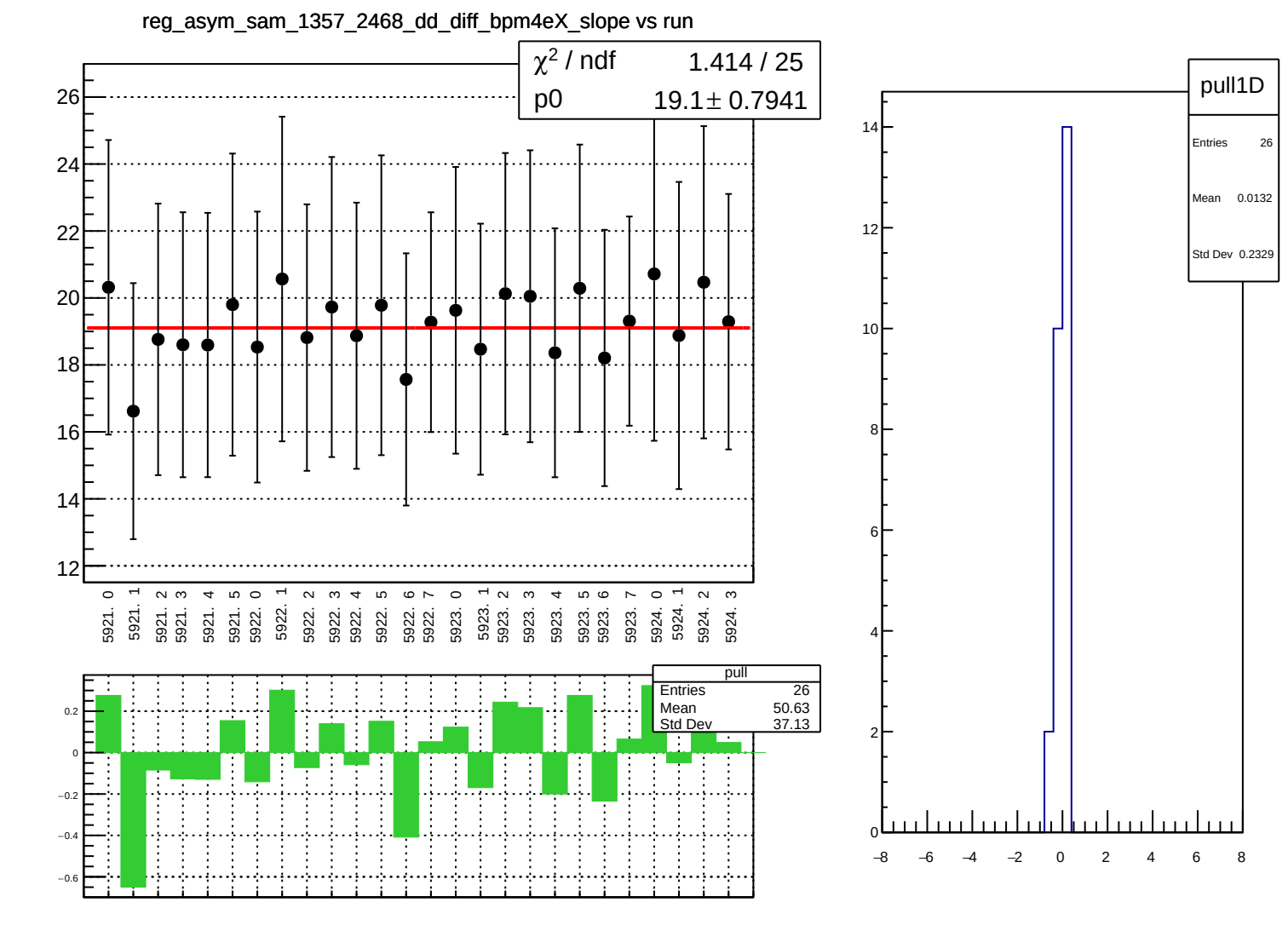

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 4.248 / 25
p0 −1.312 ± 0.1428
0
−0.5
−1
−1.5
−2
−2.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 294.5
Std Dev 280.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

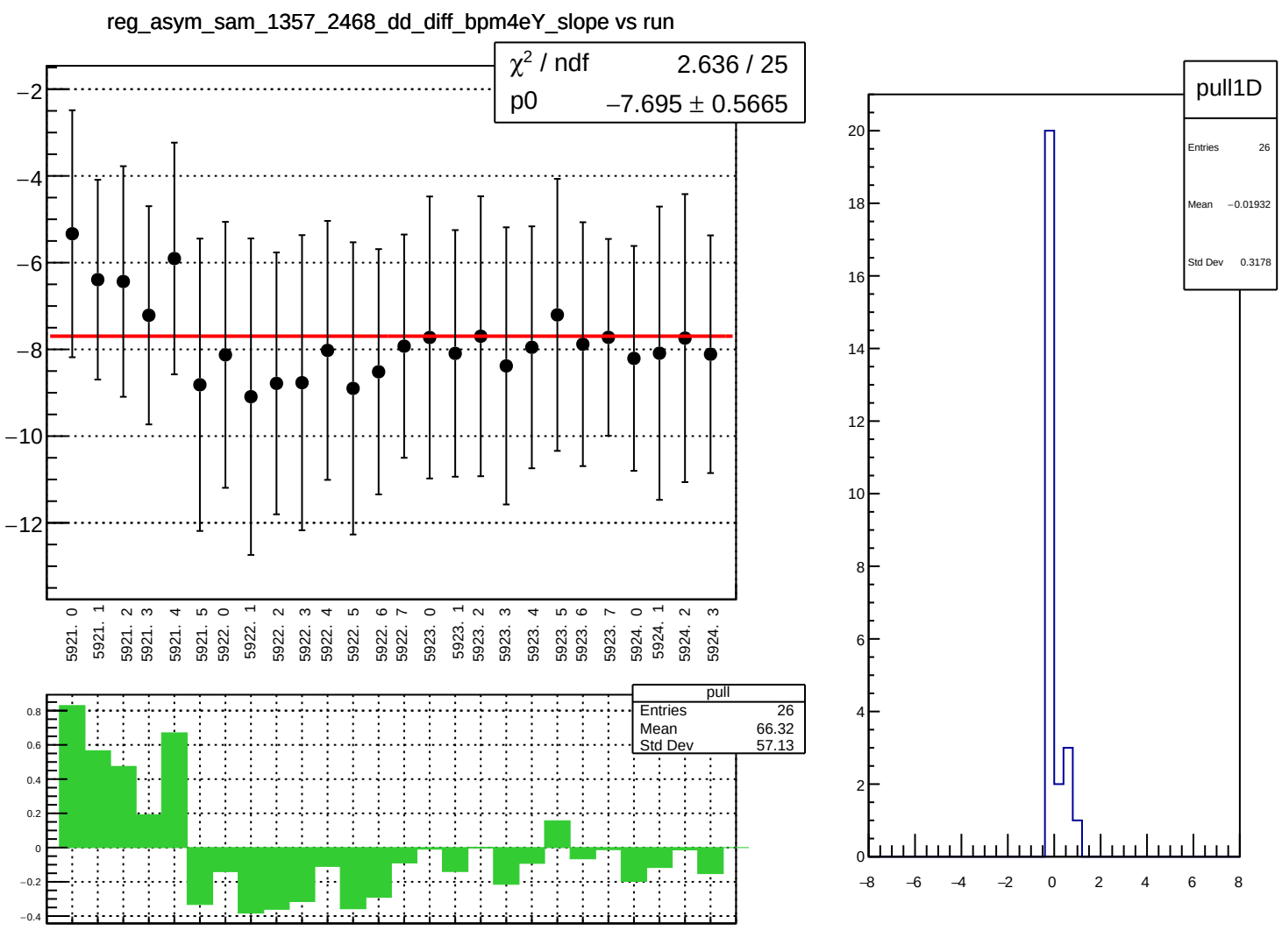

pull1D
Entries 26
Mean 0.003229
Std Dev 0.4042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

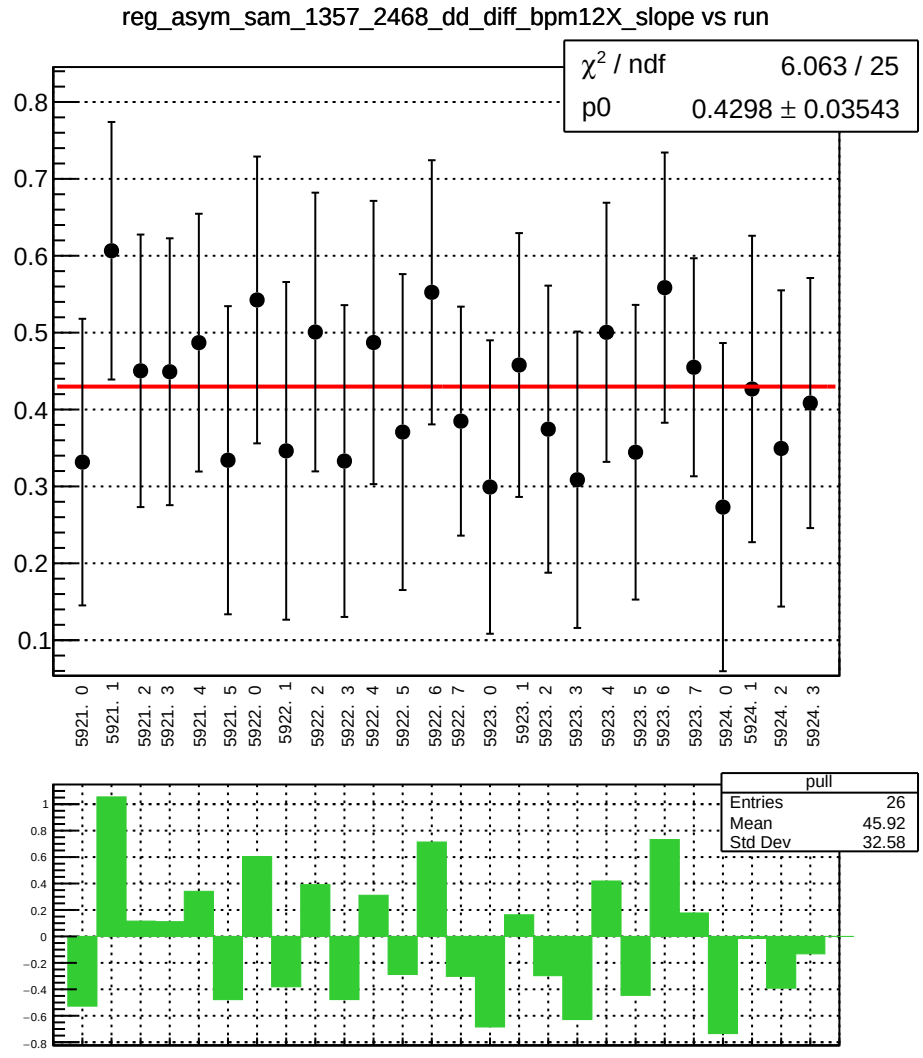

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.783 / 25
p0 5.048 ± 0.6315
pull
Entries 26
Mean 50.05
Std Dev 37.94
pull1D
Entries 26
Mean −0.01348
Std Dev 0.2615

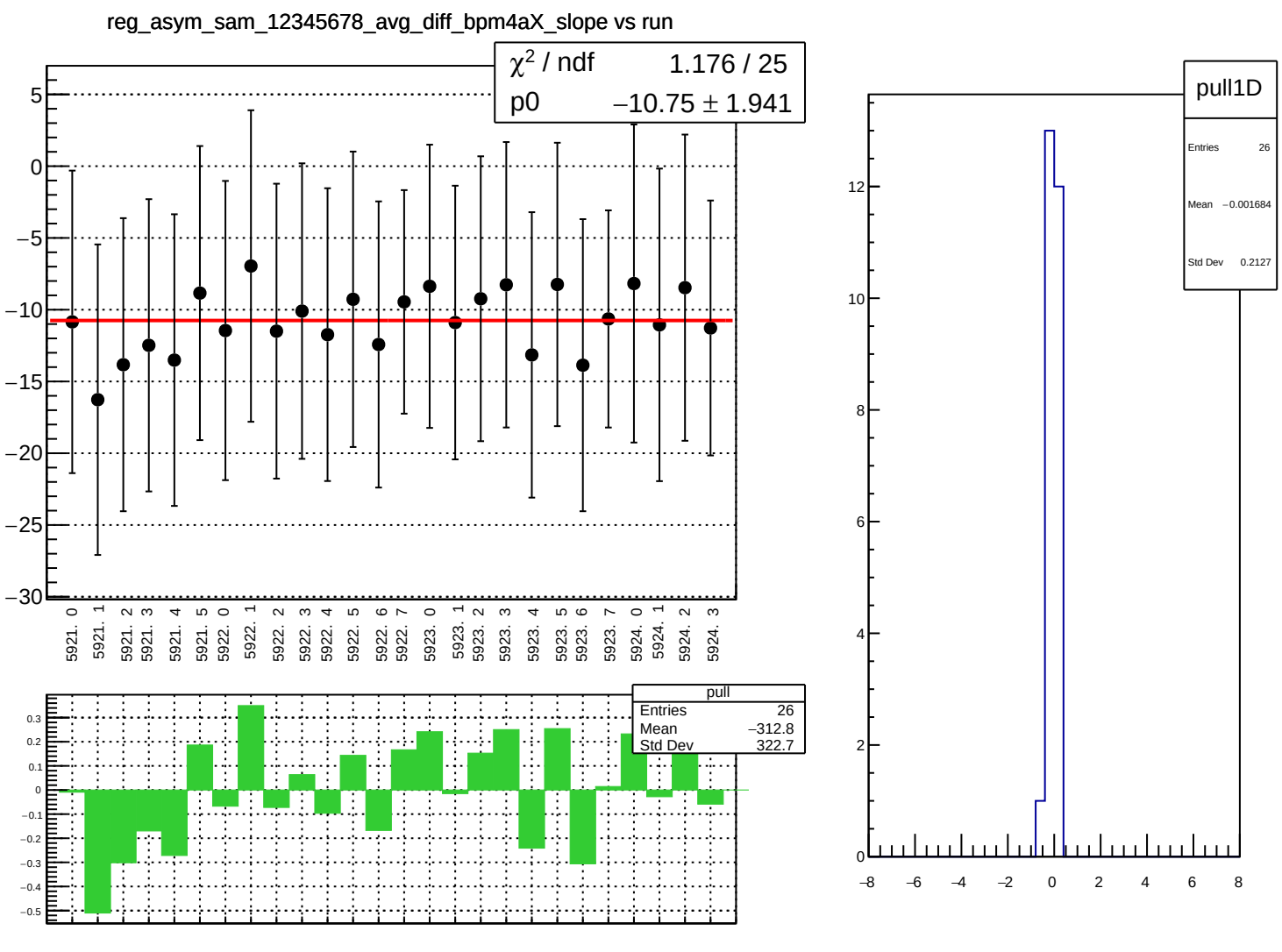

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.509 / 25
p0 1.28 ± 0.5157
pull
Entries 26
Mean 78.37
Std Dev 69.4

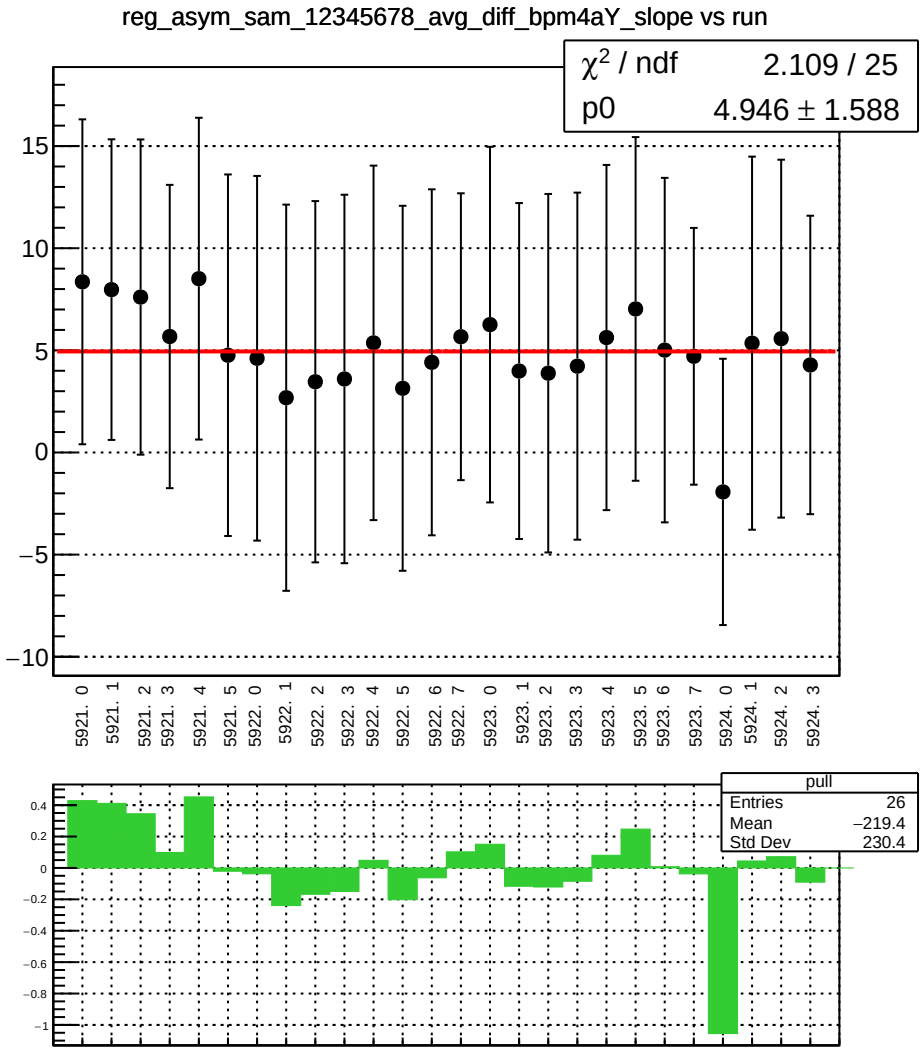

pull1D
Entries 26
Mean 0.01655
Std Dev 0.3102

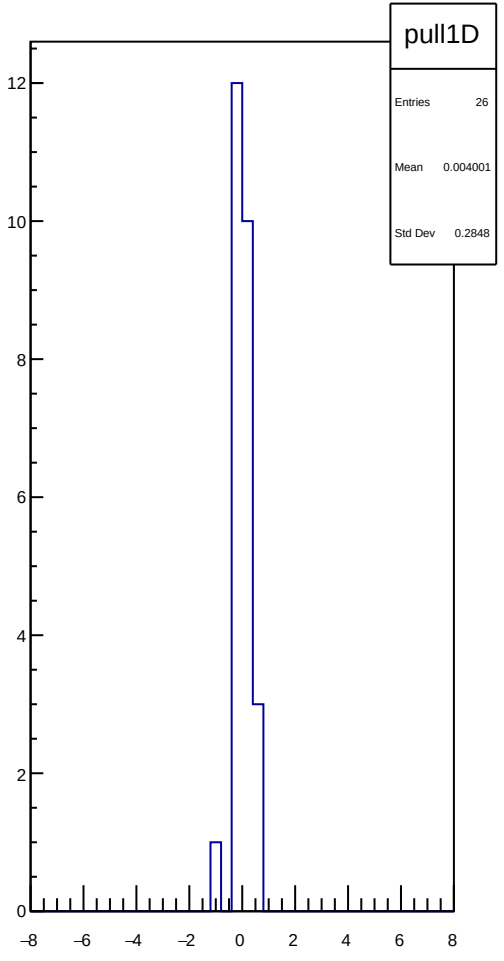

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.414 / 25
p0 19.1± 0.7941
pull
Entries 26
Mean 50.63
Std Dev 37.13
pull1D
Entries 26
Mean 0.0132
Std Dev 0.2329

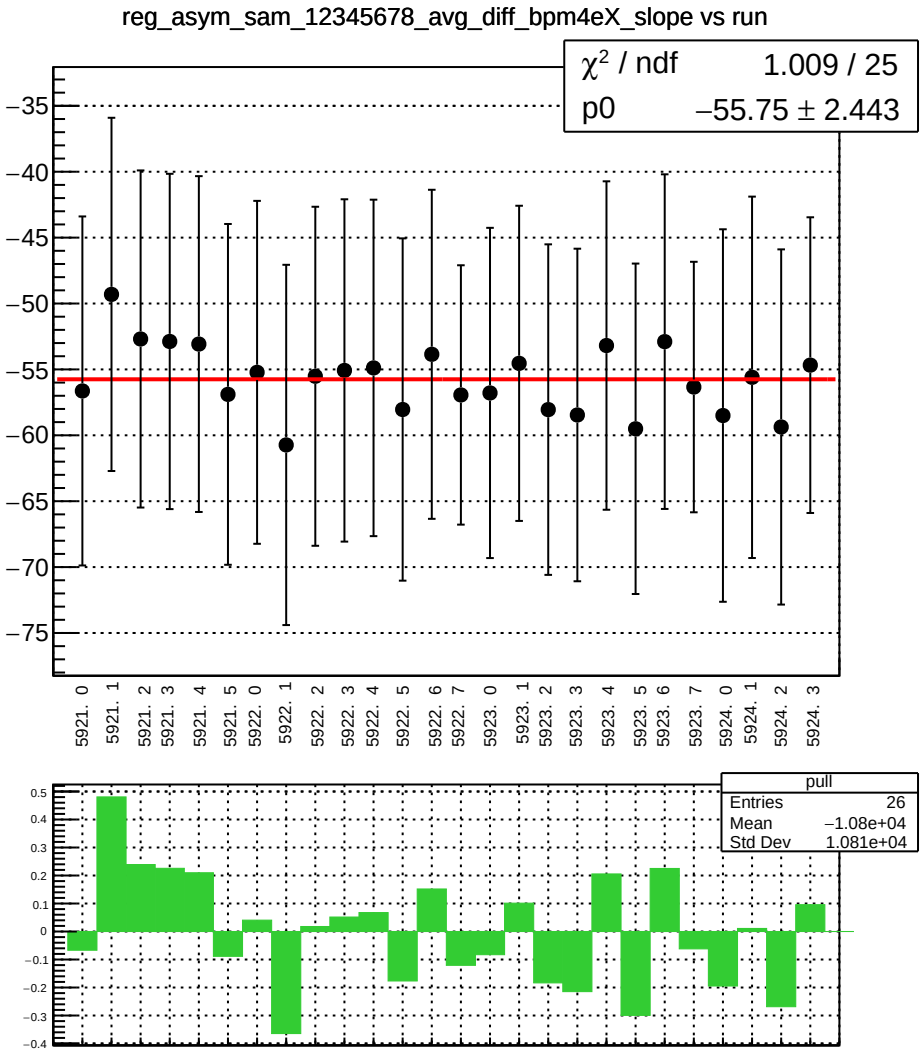

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.636 / 25
p0 −7.695 ± 0.5665
−2
−4
−6
−8
−10
−12
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 66.32
Std Dev 57.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 26
Mean −0.01932
Std Dev 0.3178
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

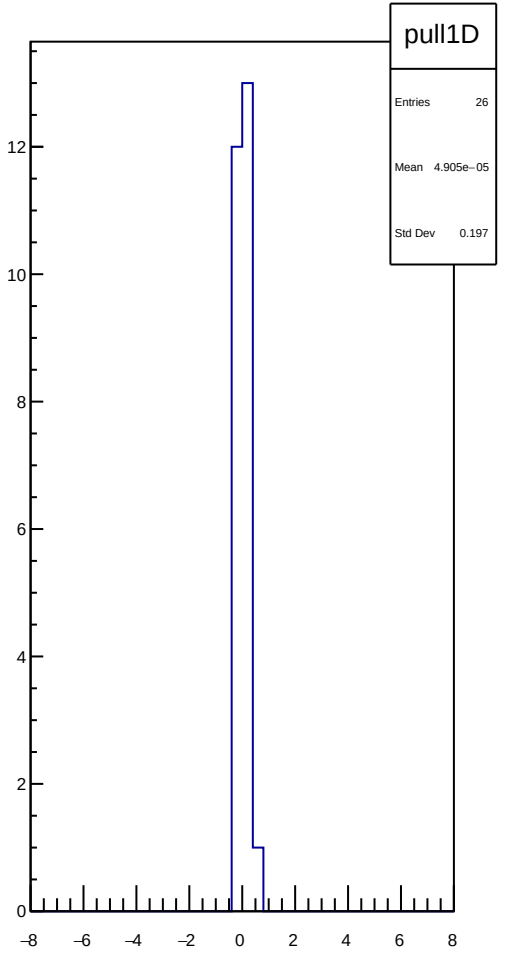

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 6.063 / 25
p0 0.4298 ± 0.03543
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 45.92
Std Dev 32.58
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.02486
Std Dev 0.4823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

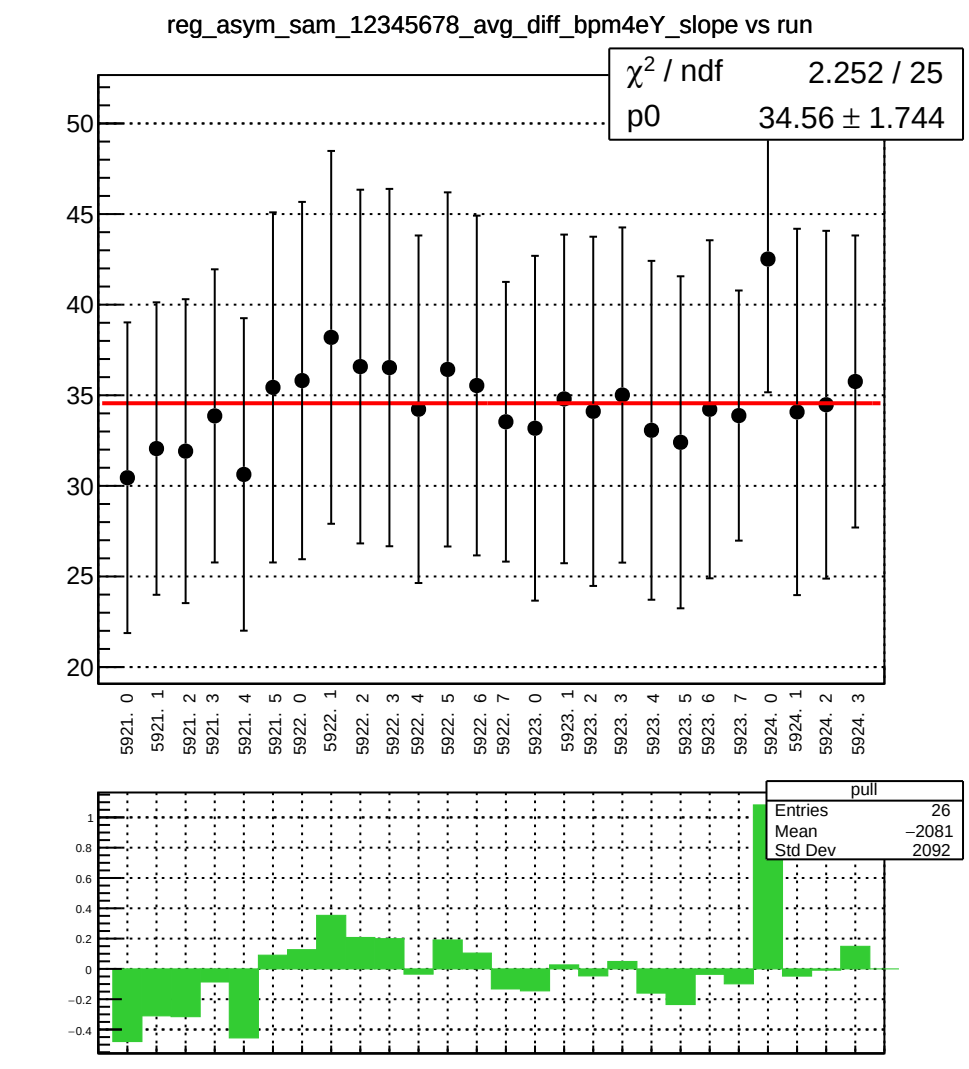

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.176 / 25
p0 −10.75 ± 1.941
5
0
−5
−10
−15
−20
−25
−30
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −312.8
Std Dev 322.7
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 26
Mean −0.001684
Std Dev 0.2127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

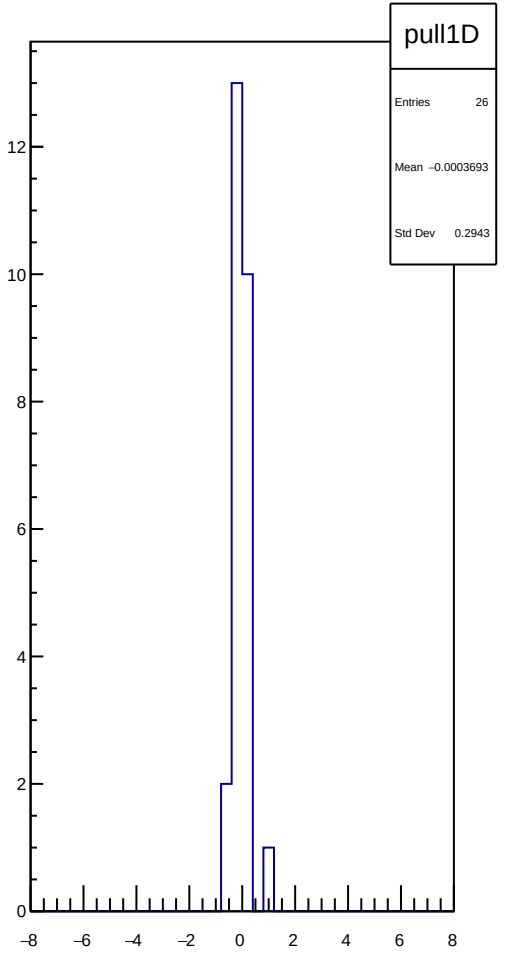

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.109 / 25
p0 4.946 ± 1.588
15
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −219.4
Std Dev 230.4
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

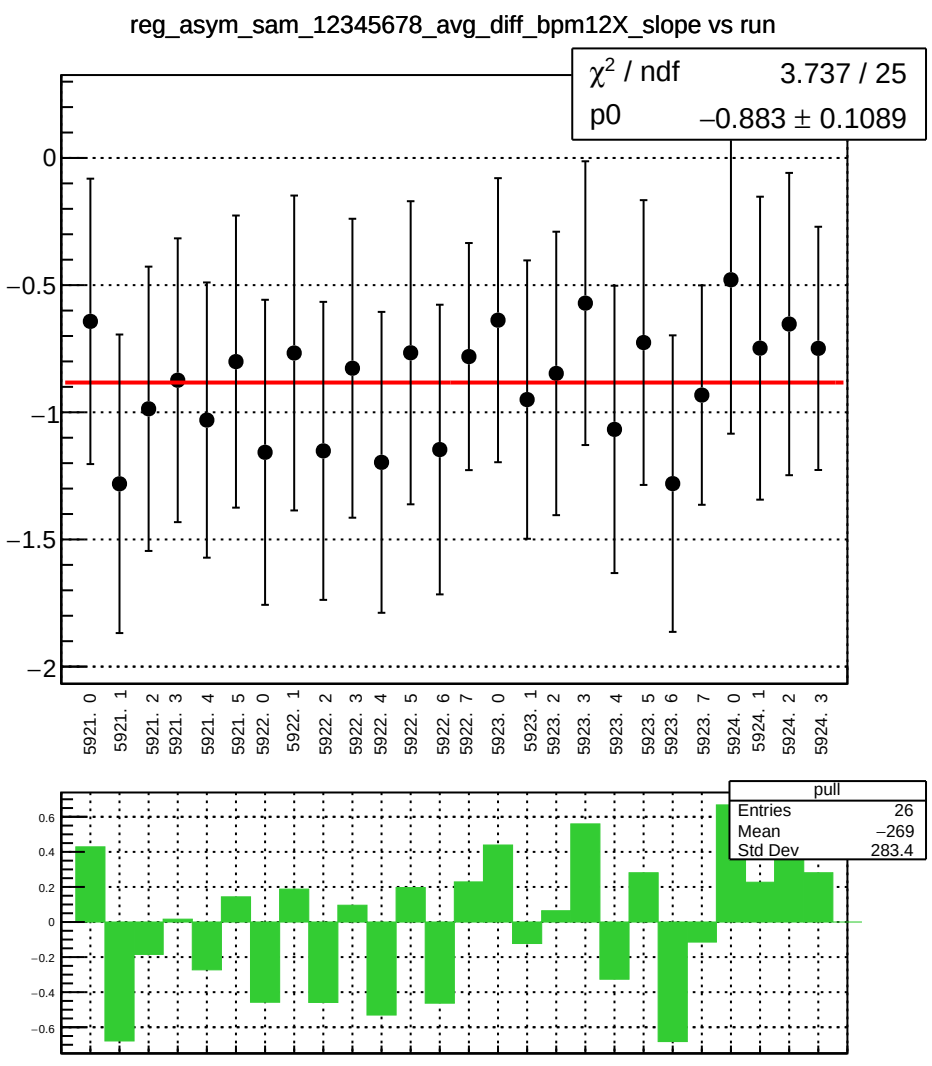

pull1D
Entries 26
Mean 0.004001
Std Dev 0.2848
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

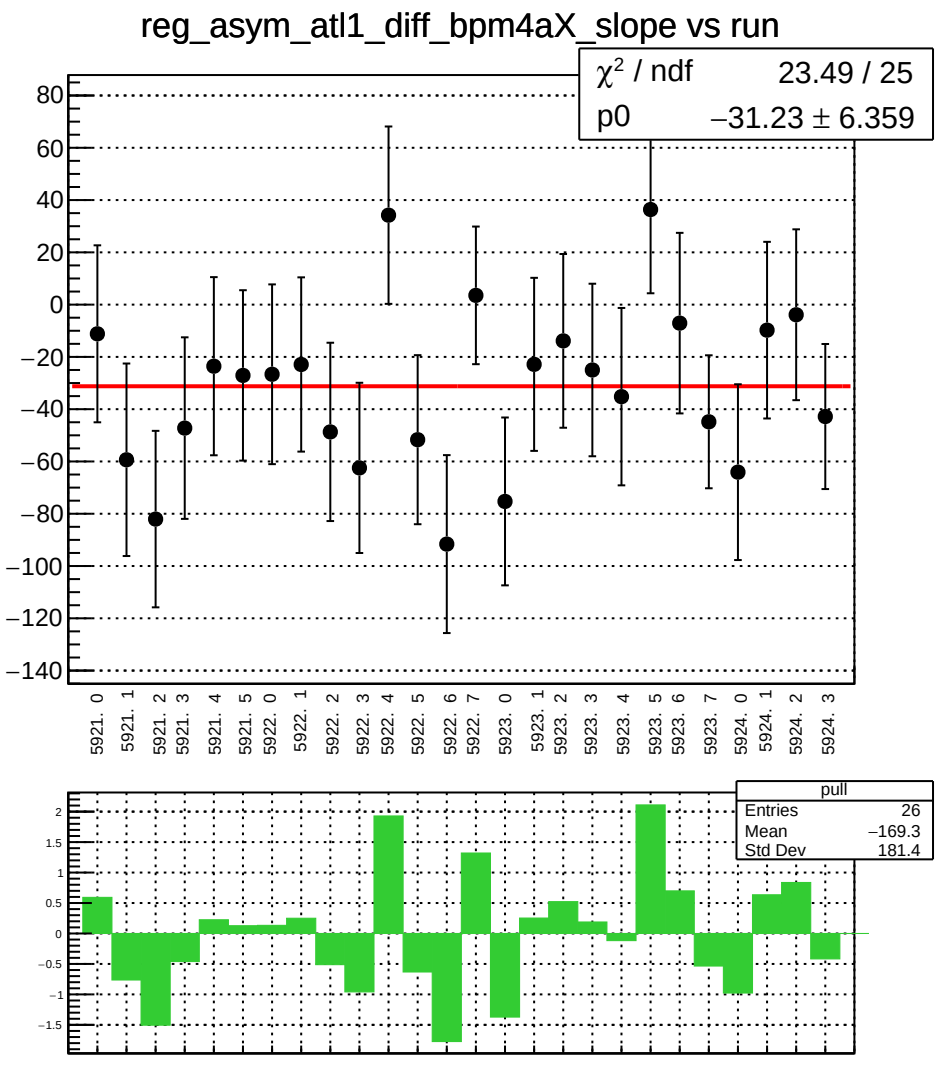

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.009 / 25
p0 −55.75 ± 2.443
−35
−40
−45
−50
−55
−60
−65
−70
−75
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1.08e+04
Std Dev 1.081e+04
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

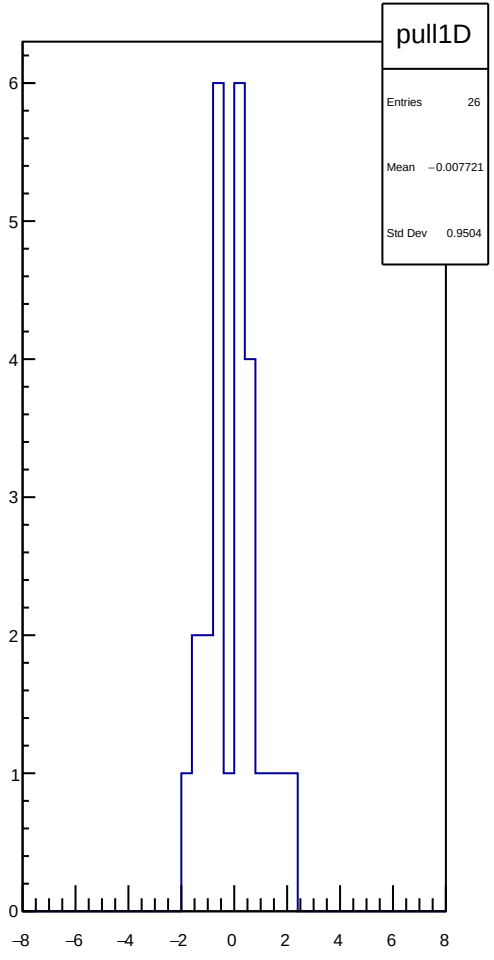

pull1D
Entries 26
Mean 4.905e−05
Std Dev 0.197
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

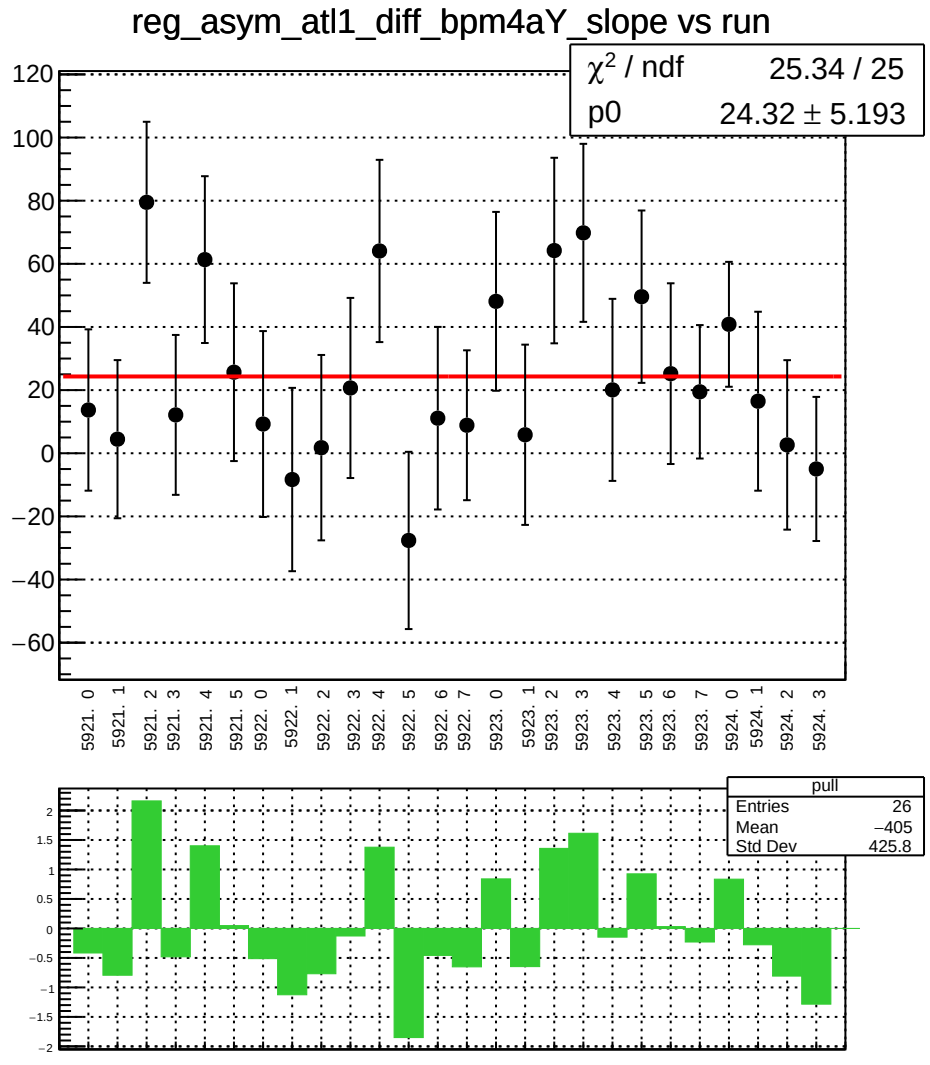

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.252 / 25
p0 34.56 ± 1.744
50
45
40
35
30
25
20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −2081
Std Dev 2092
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

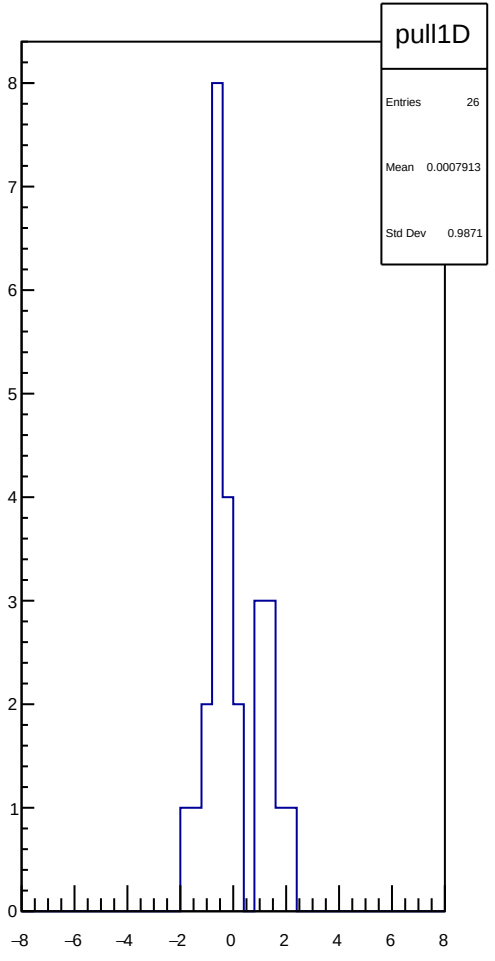

pull1D
Entries 26
Mean −0.0003693
Std Dev 0.2943
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

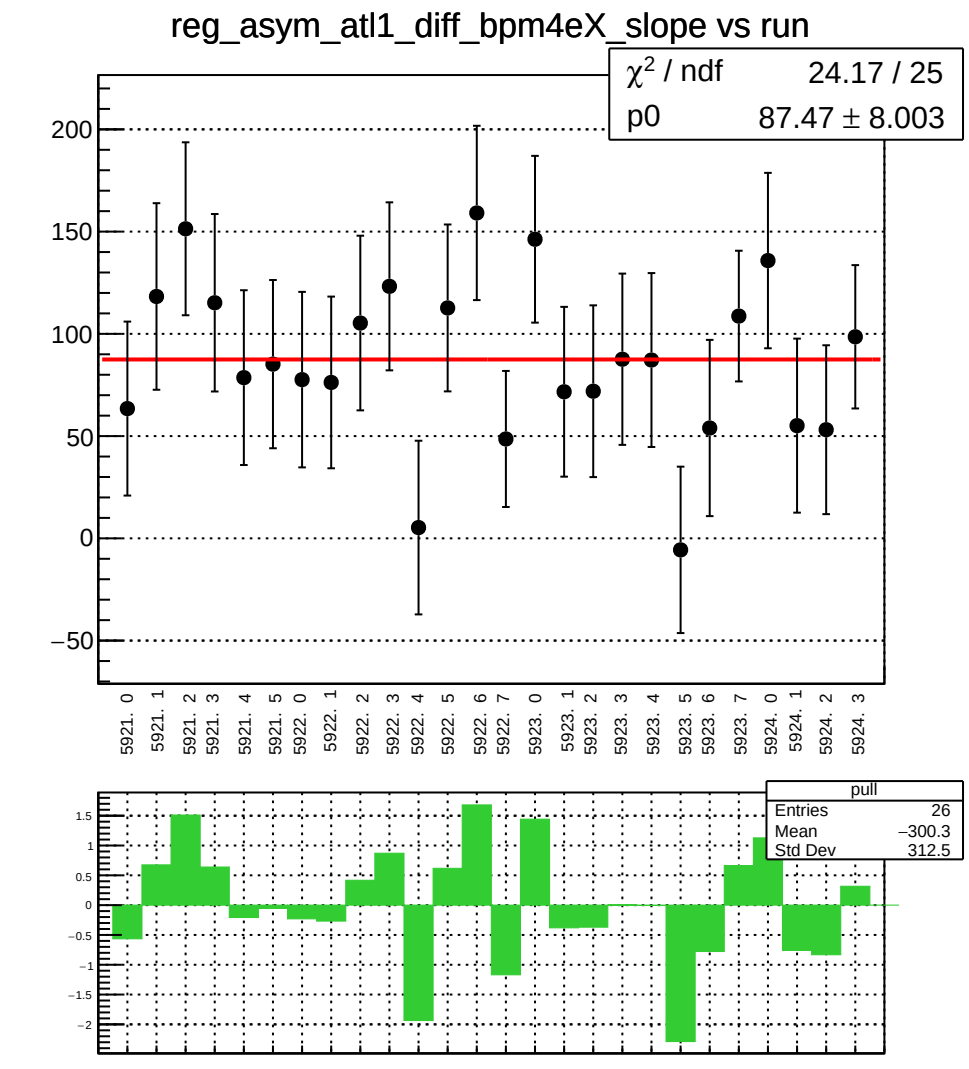

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.737 / 25
p0 −0.883 ± 0.1089
0
−0.5
−1
−1.5
−2
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −269
Std Dev 283.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 26
Mean −0.003307
Std Dev 0.3791
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

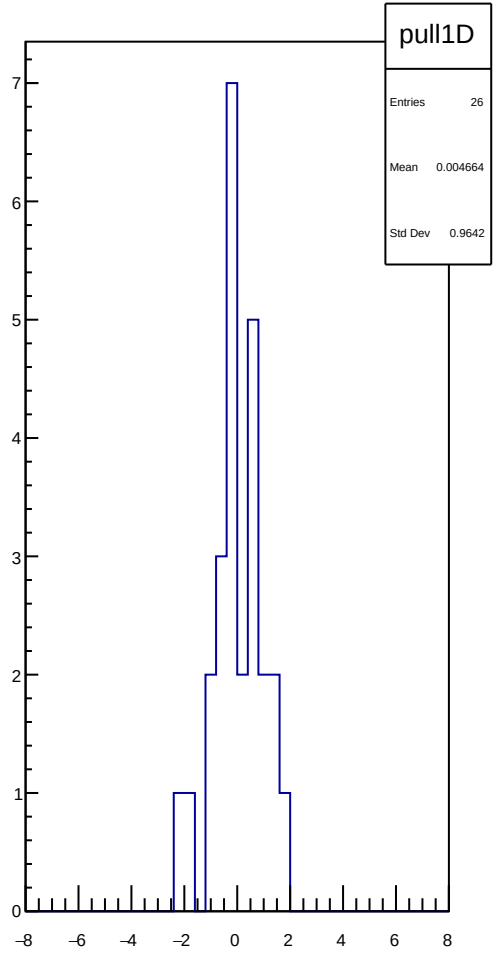

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 23.49 / 25
p0 −31.23 ± 6.359
pull
Entries 26
Mean −169.3
Std Dev 181.4

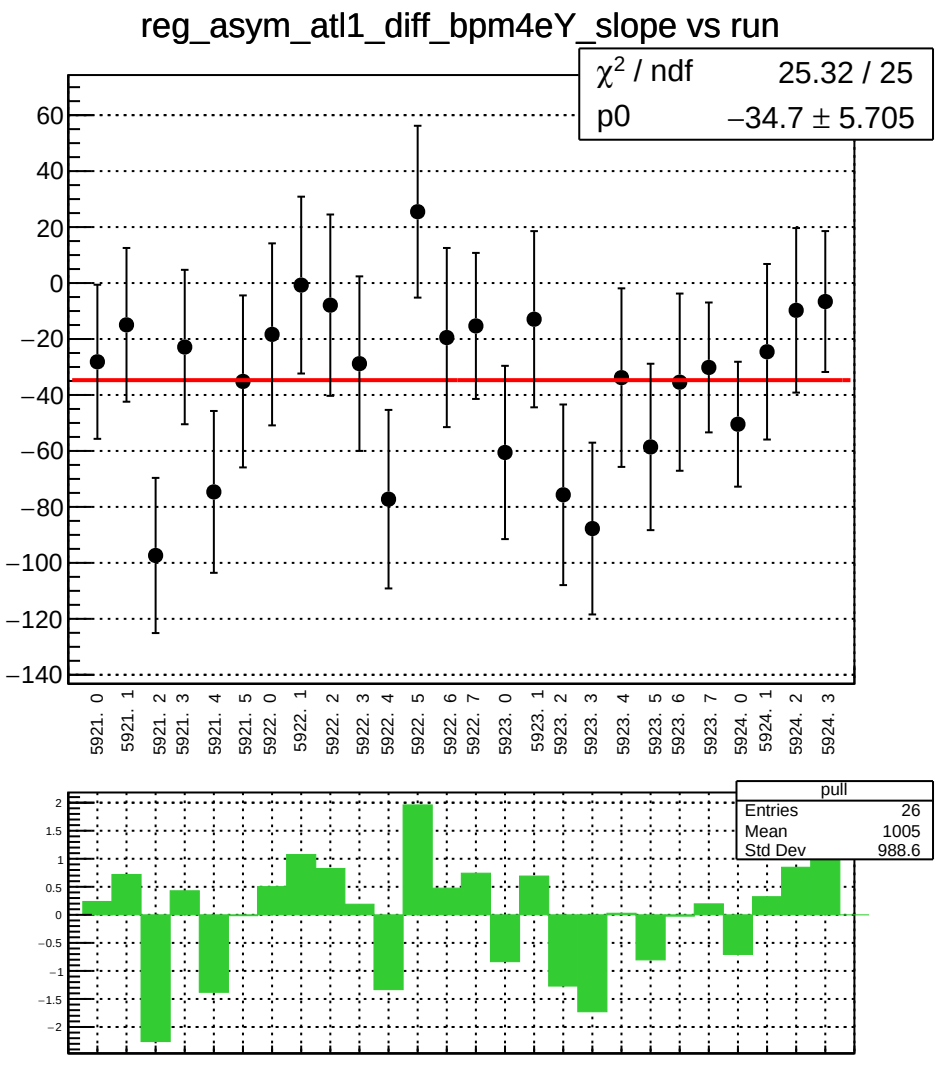

pull1D
Entries 26
Mean −0.007721
Std Dev 0.9504

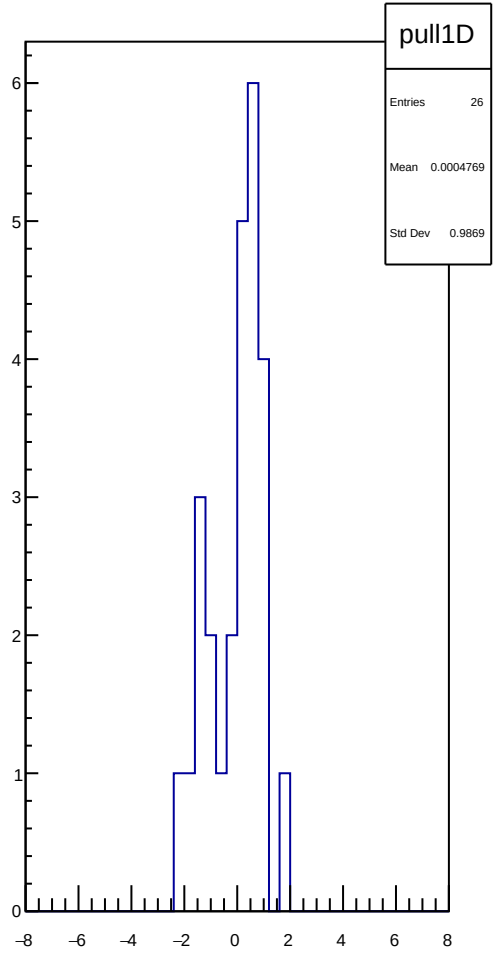

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 25.34 / 25
p0 24.32 ± 5.193
pull
Entries 26
Mean −405
Std Dev 425.8

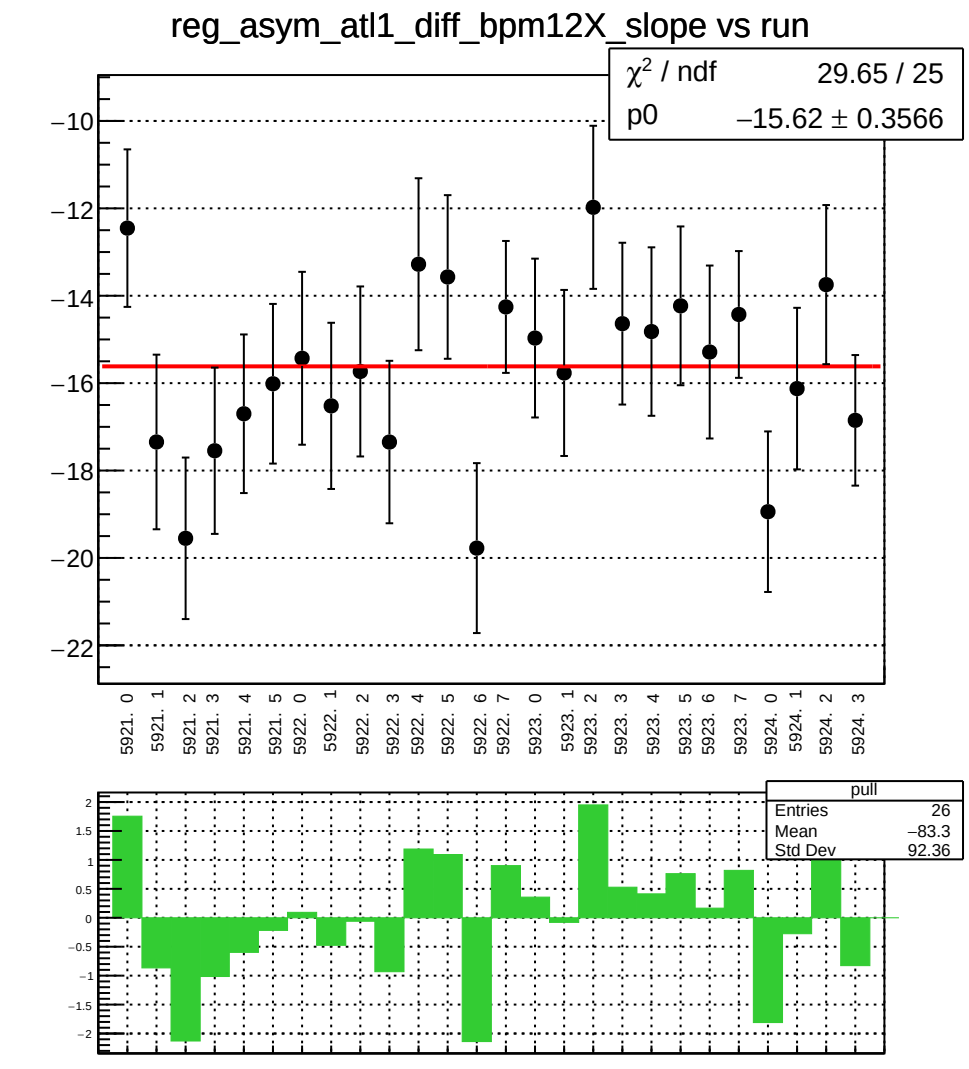

pull1D
Entries 26
Mean 0.0007913
Std Dev 0.9871

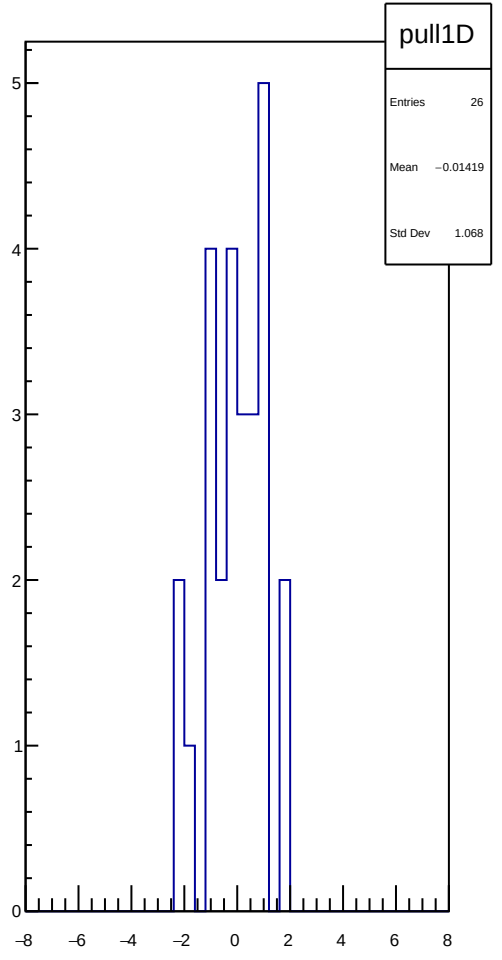

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 24.17 / 25
p0 87.47 ± 8.003
200
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −300.3
Std Dev 312.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

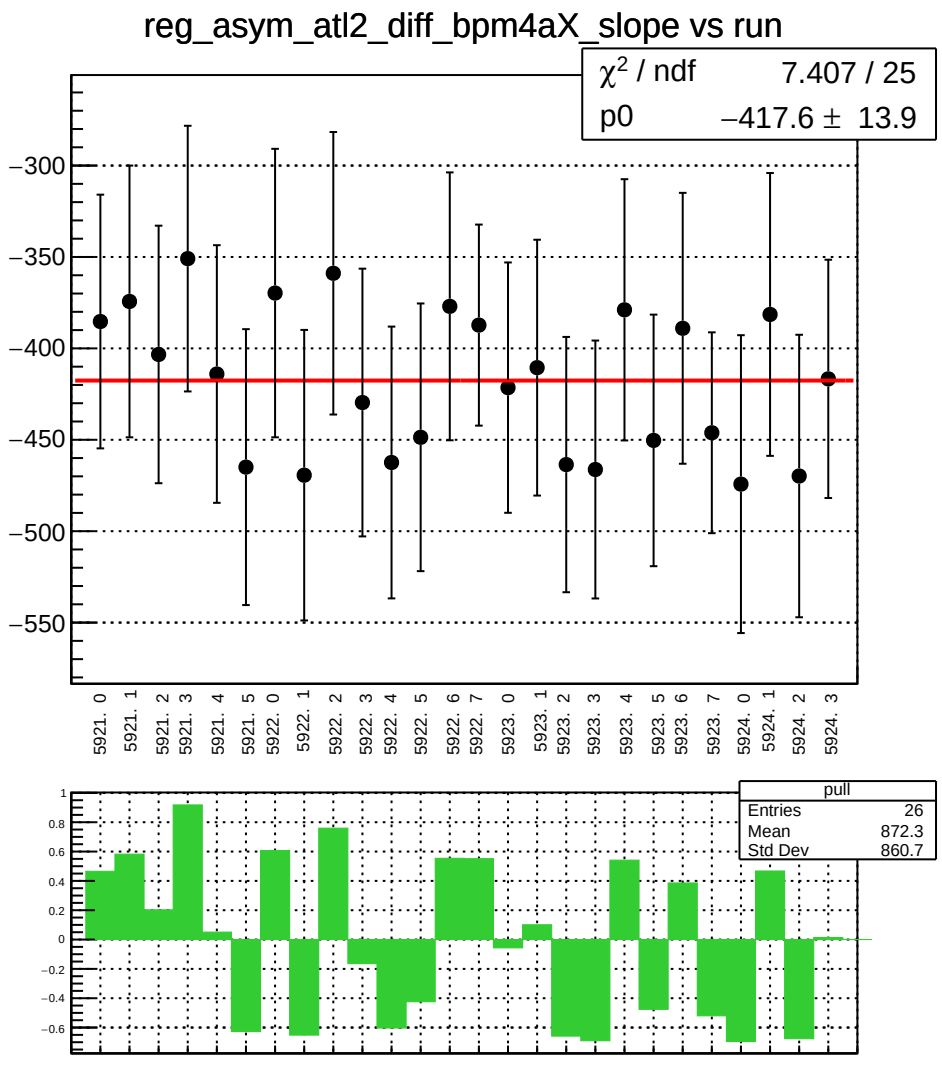

pull1D
Entries 26
Mean 0.004664
Std Dev 0.9642
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

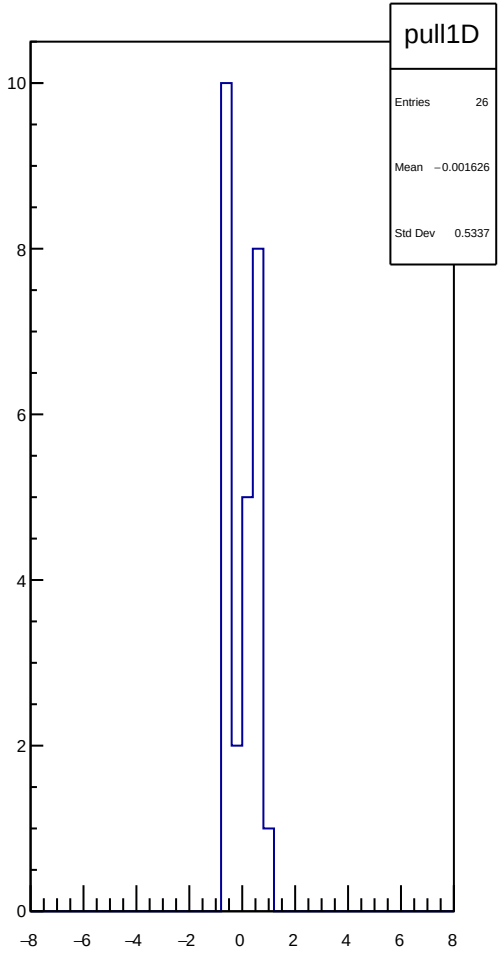

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 25.32 / 25
p0 −34.7 ± 5.705
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1005
Std Dev 988.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

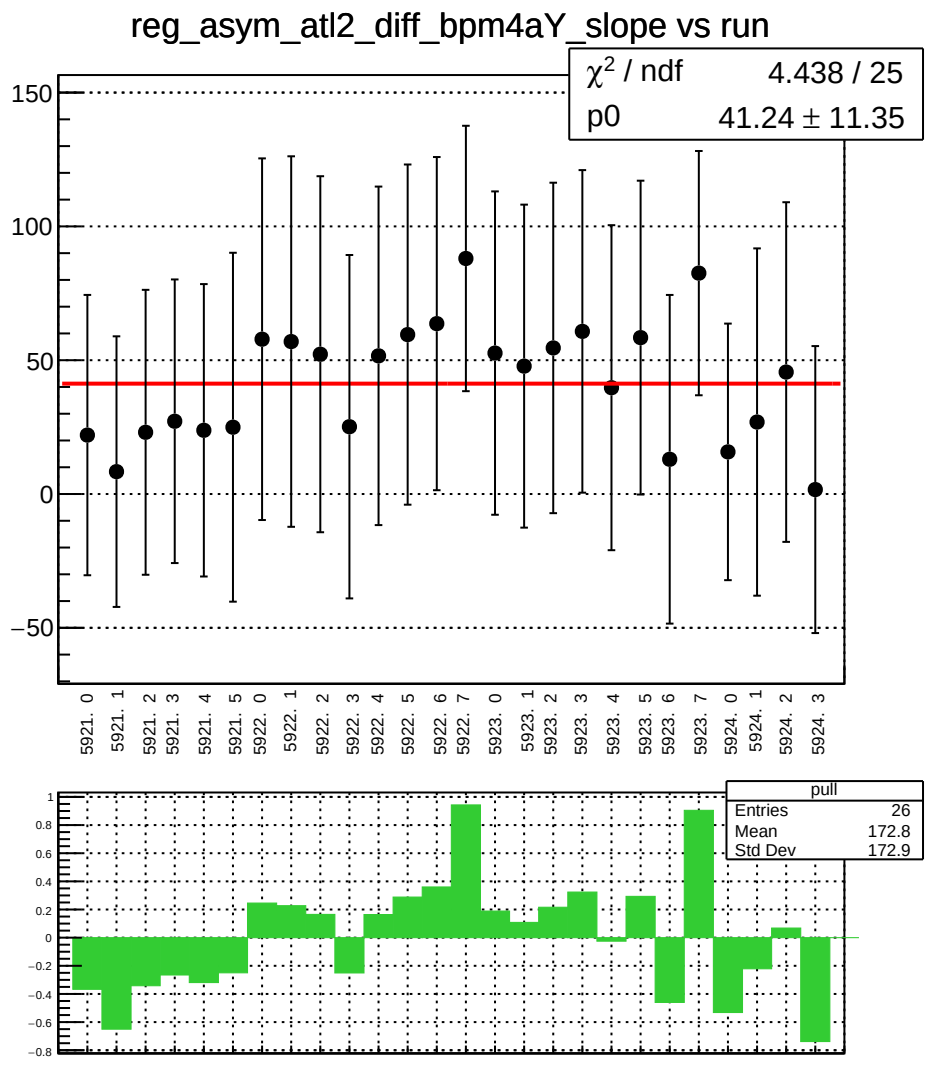

pull1D
Entries 26
Mean 0.0004769
Std Dev 0.9869
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

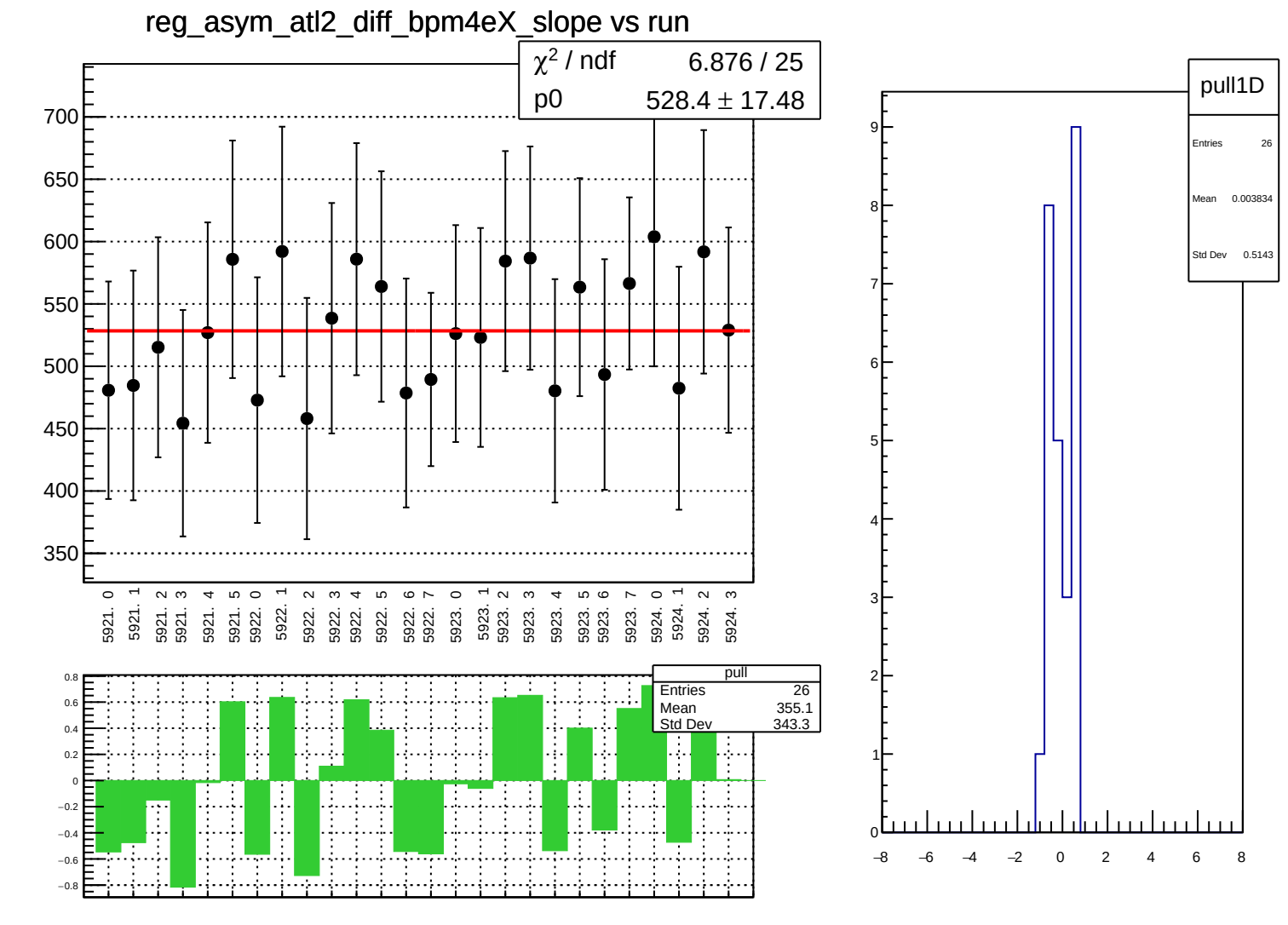

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 29.65 / 25
p0 −15.62 ± 0.3566
−10
−12
−14
−16
−18
−20
−22
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −83.3
Std Dev 92.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

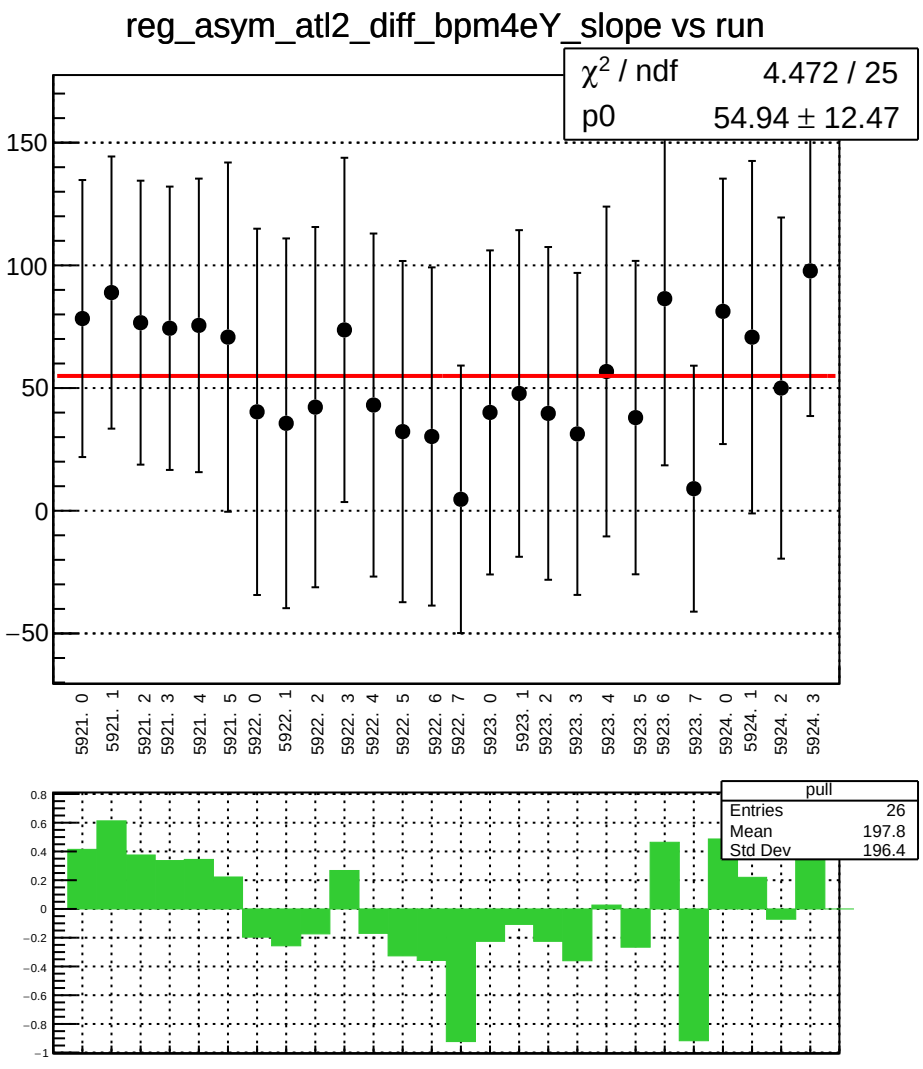

pull1D
Entries 26
Mean −0.01419
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

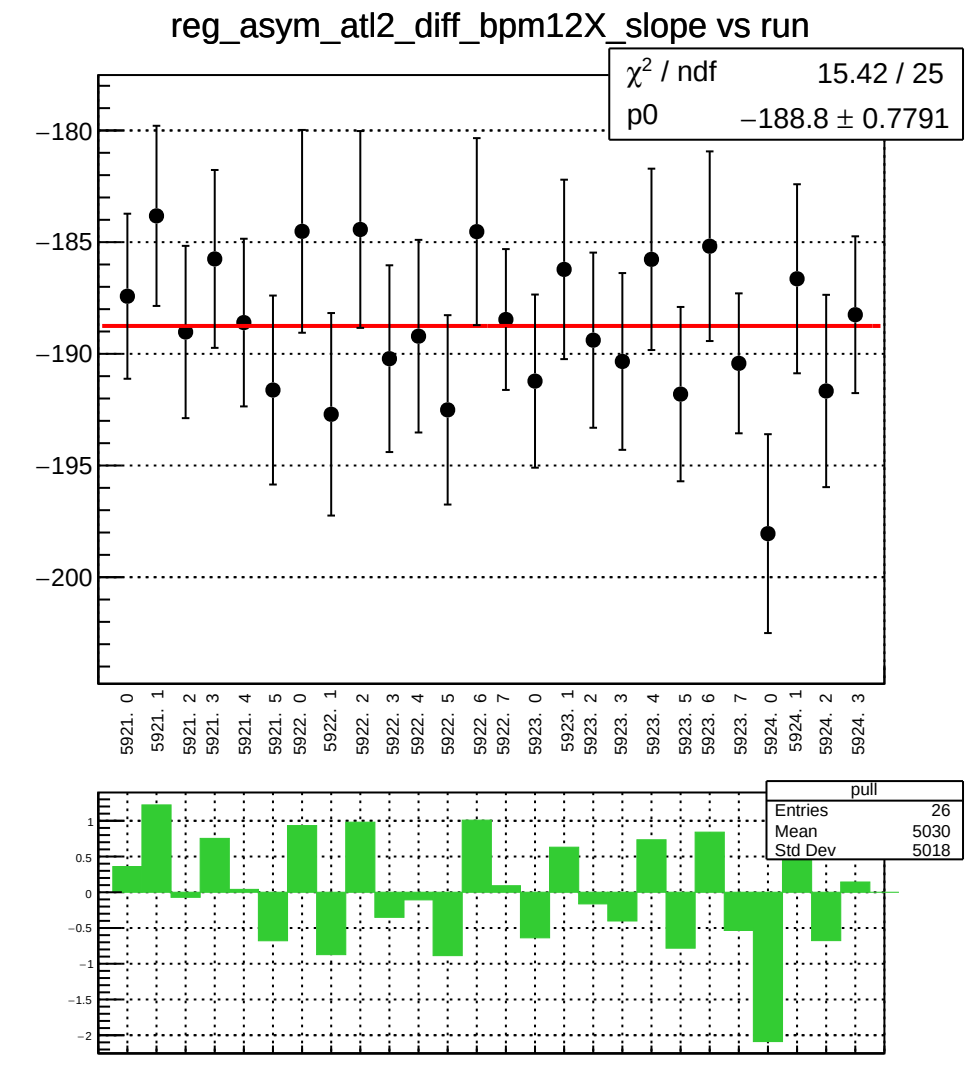

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 7.407 / 25
p0 −417.6 ± 13.9
−300
−350
−400
−450
−500
−550
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 872.3
Std Dev 860.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

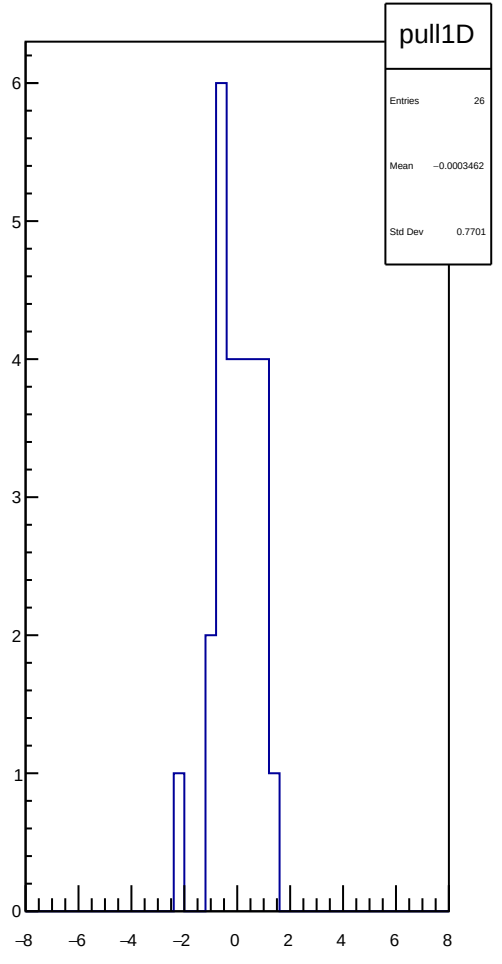

pull1D
Entries 26
Mean −0.001626
Std Dev 0.5337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

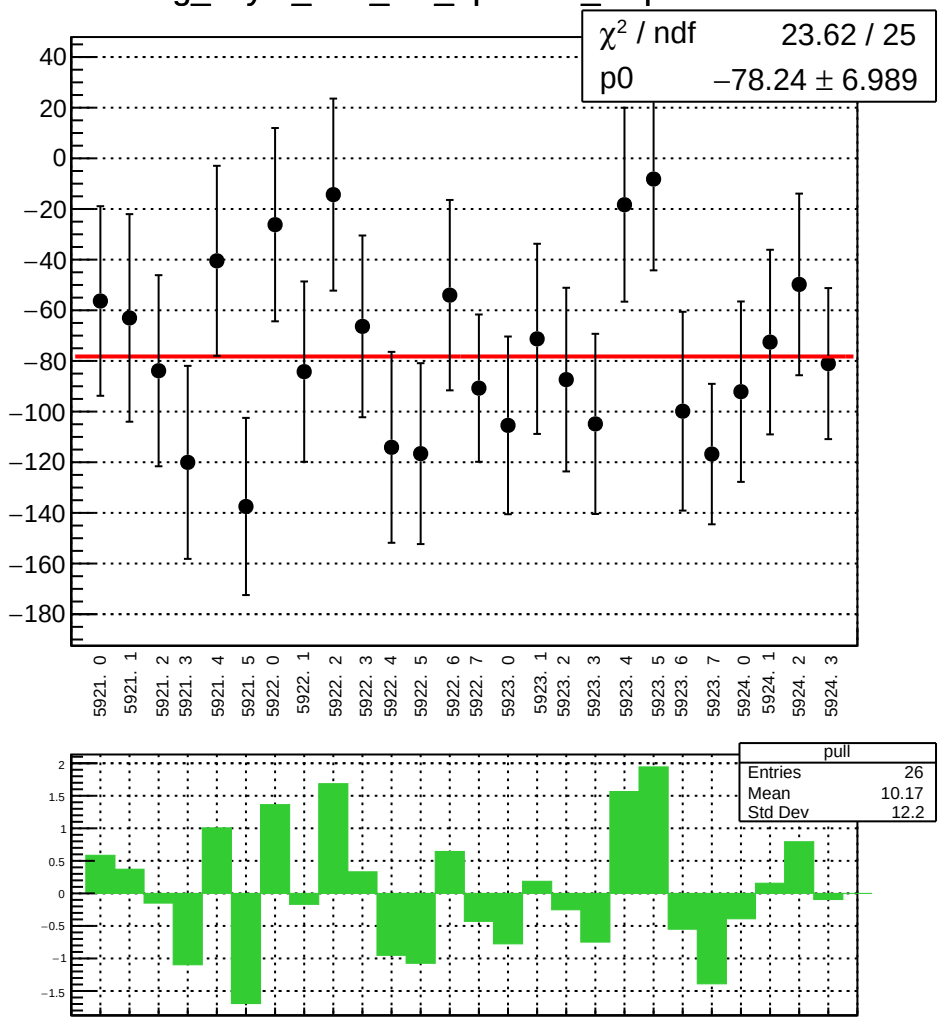

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.438 / 25
p0 41.24 ± 11.35
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 172.8
Std Dev 172.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.002998
Std Dev 0.4132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

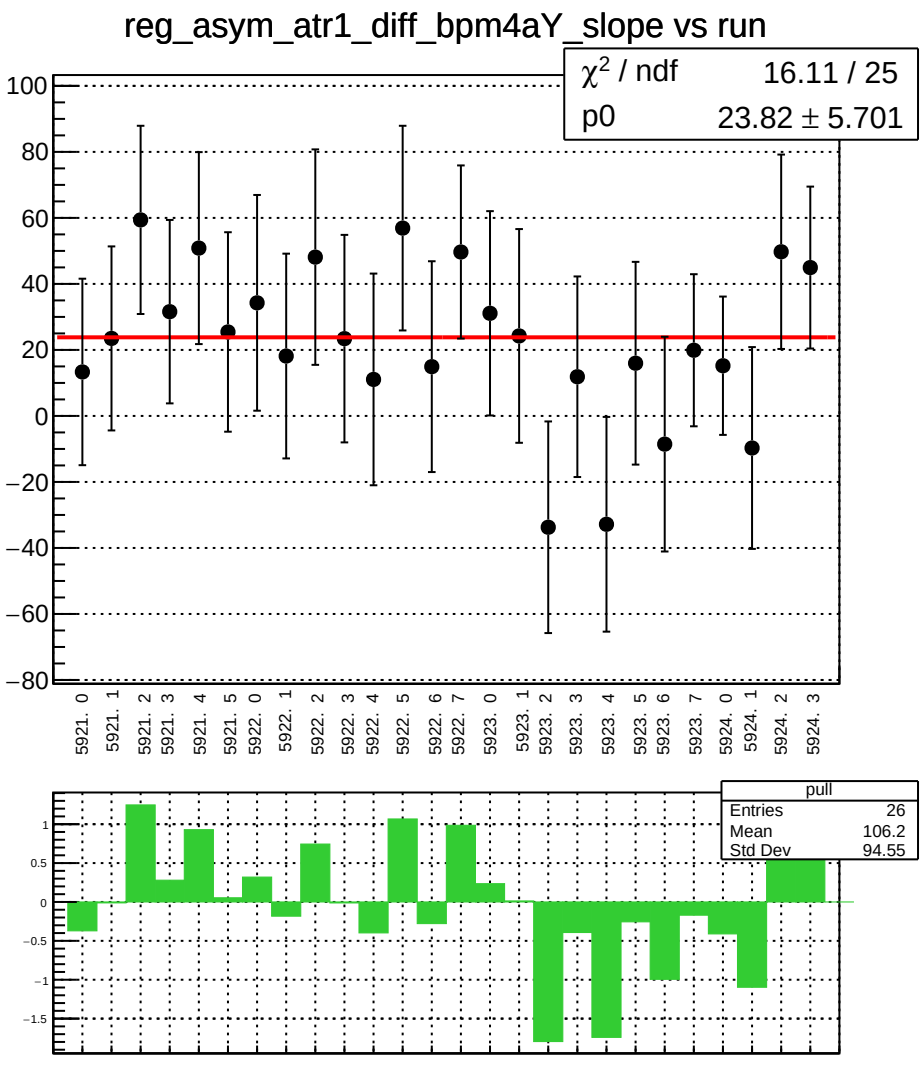

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 6.876 / 25
p0 528.4 ± 17.48
700
650
600
550
500
450
400
350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 355.1
Std Dev 343.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.003834
Std Dev 0.5143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

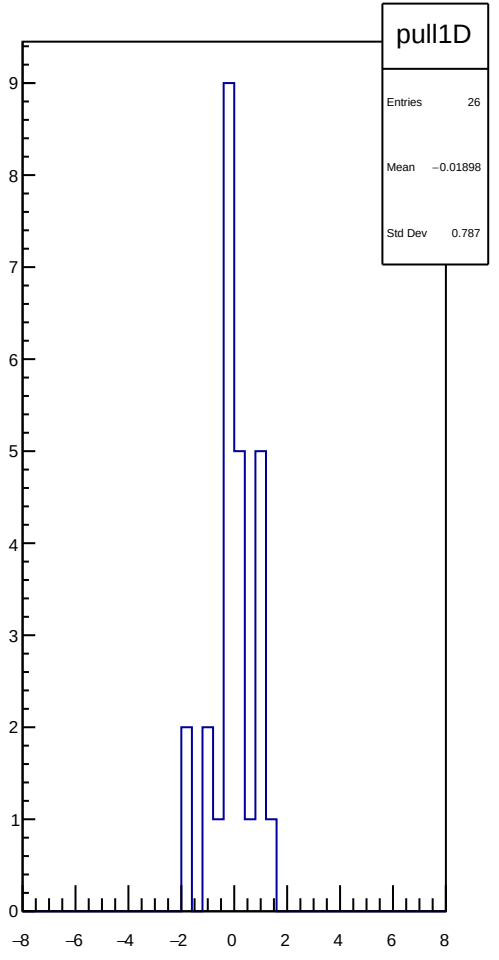

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.472 / 25
p0 54.94 ± 12.47
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 197.8
Std Dev 196.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean −0.003027
Std Dev 0.4147
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

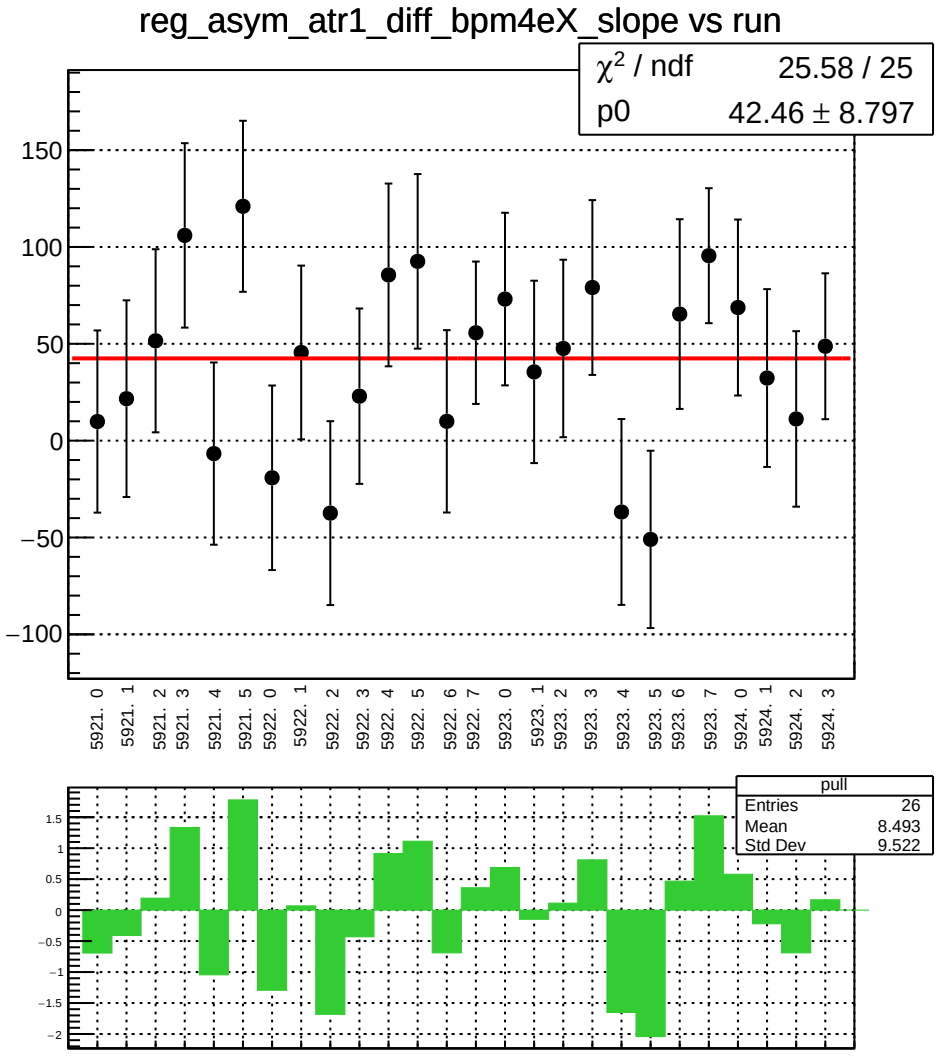

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.42 / 25
p0 −188.8 ± 0.7791
−180
−185
−190
−195
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5030
Std Dev 5018
1
0.5
0
−0.5
−1
−1.5
−2

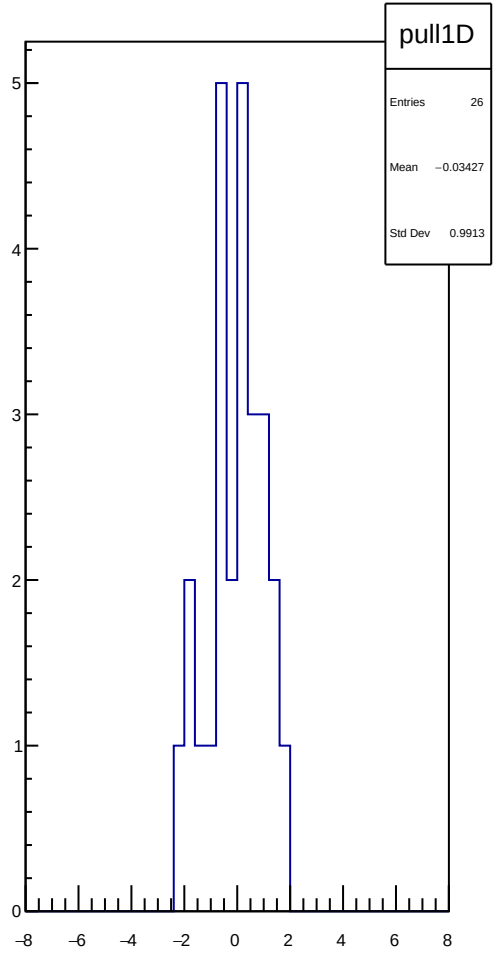

pull1D
Entries 26
Mean −0.0003462
Std Dev 0.7701
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

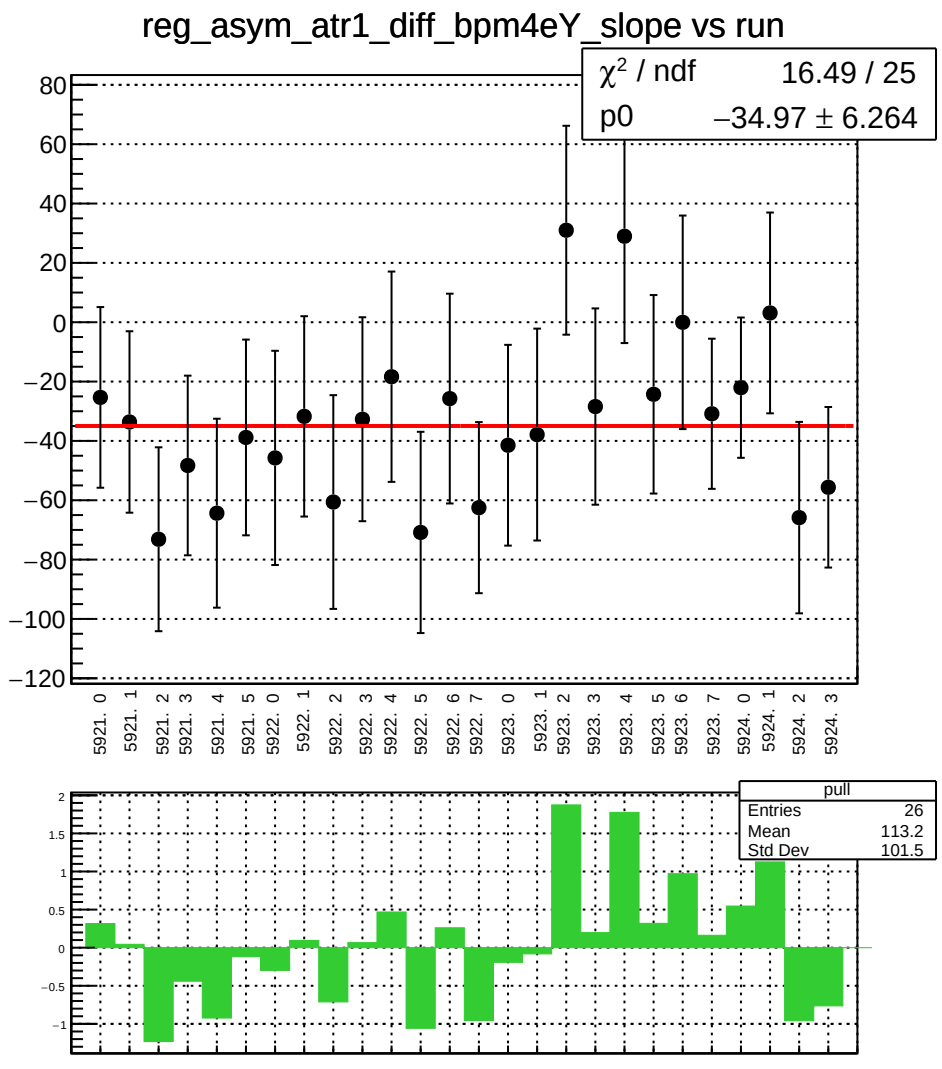

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 23.62 / 25
p0 −78.24 ± 6.989
pull
Entries 26
Mean 10.17
Std Dev 12.2
pull1D
Entries 26
Mean 0.03349
Std Dev 0.9526

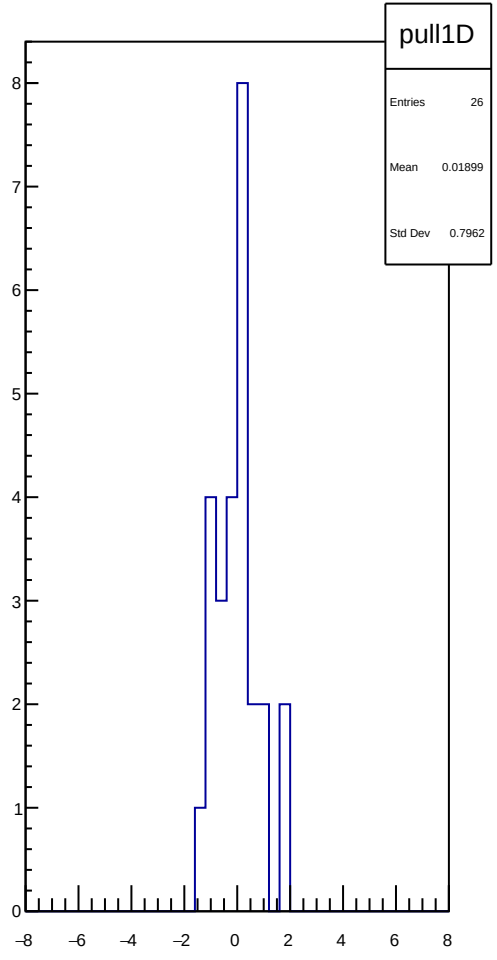

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 16.11 / 25
p0 23.82 ± 5.701
100
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 106.2
Std Dev 94.55
1
0.5
0
−0.5
−1
−1.5

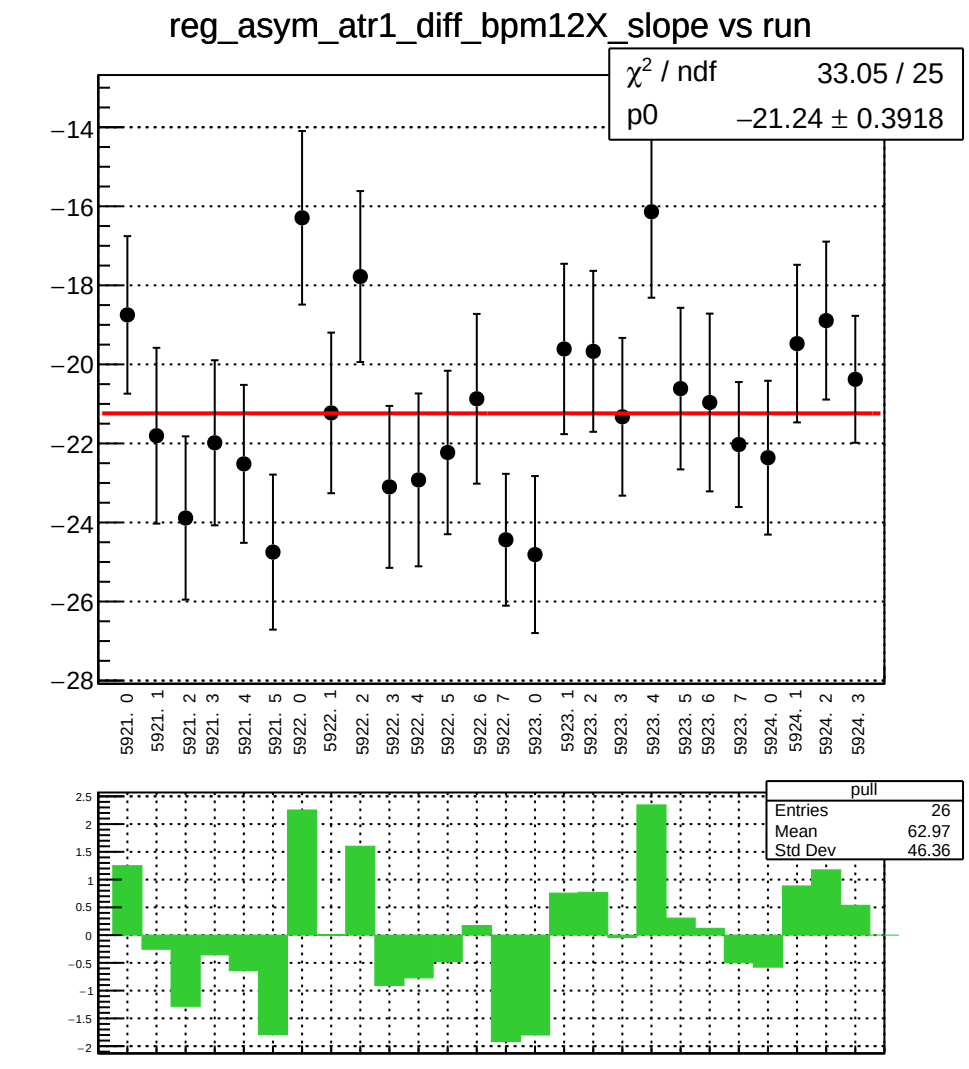

pull1D
Entries 26
Mean −0.01898
Std Dev 0.787
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

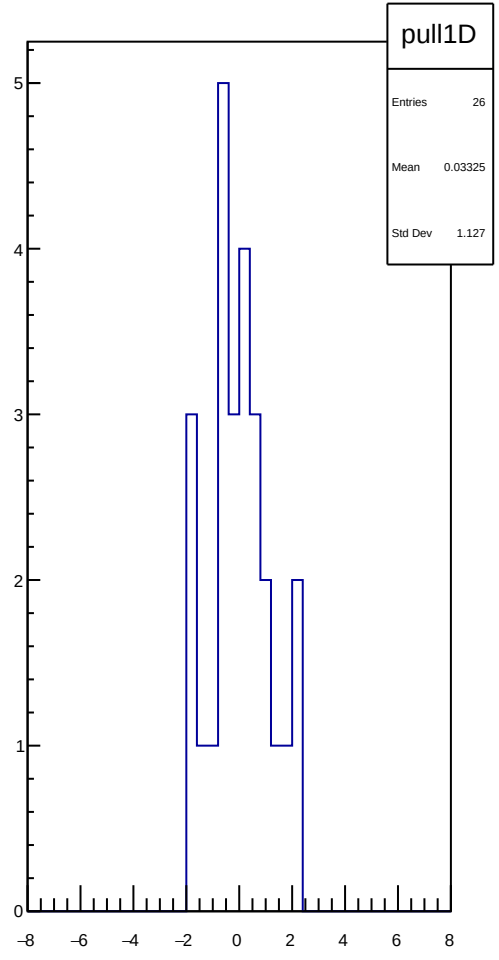

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 25.58 / 25
p0 42.46 ± 8.797
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.493
Std Dev 9.522
1.5
1
0.5
0
−0.5
−1
−1.5
−2

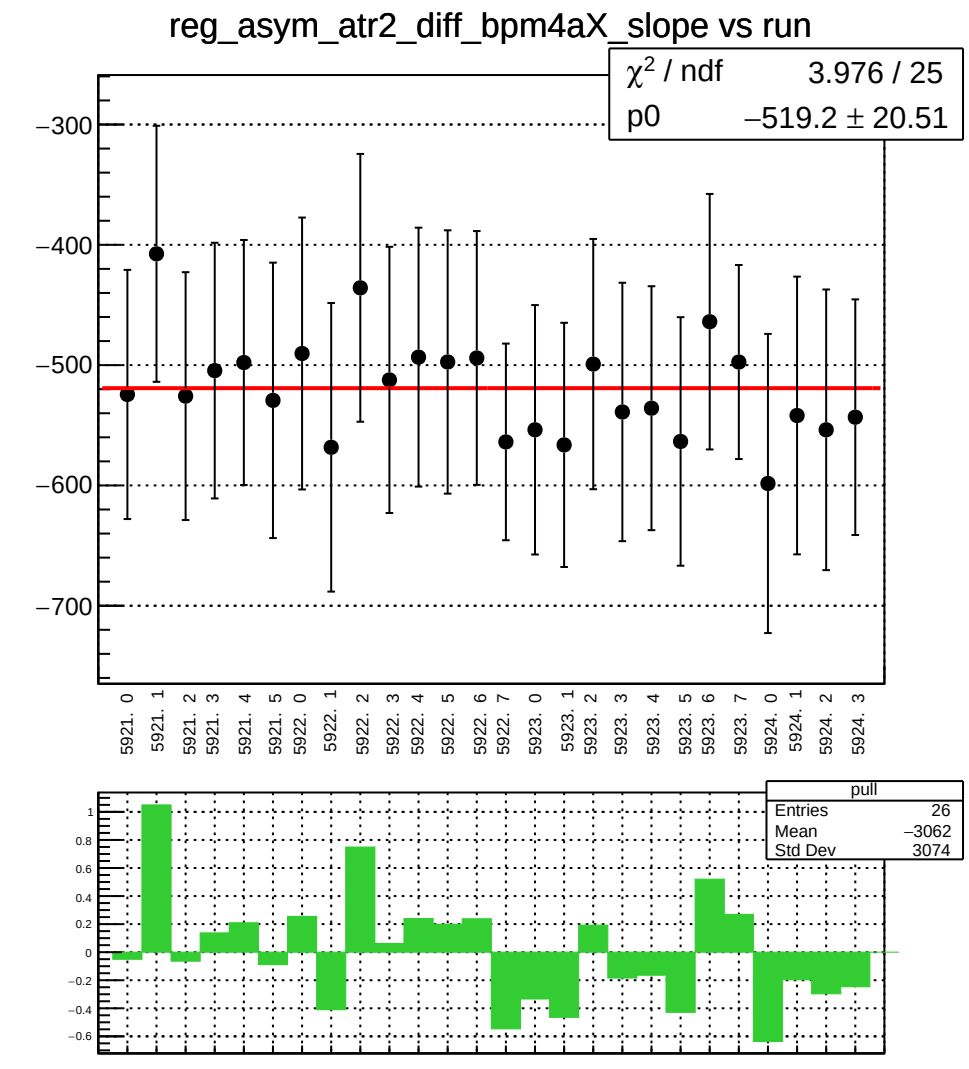

pull1D
Entries 26
Mean −0.03427
Std Dev 0.9913
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

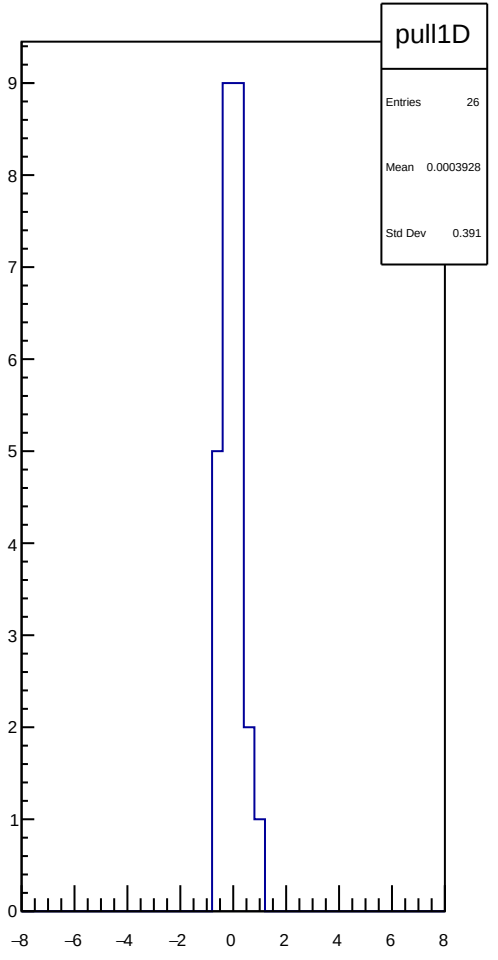

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 16.49 / 25
p0 −34.97 ± 6.264
pull
Entries 26
Mean 113.2
Std Dev 101.5

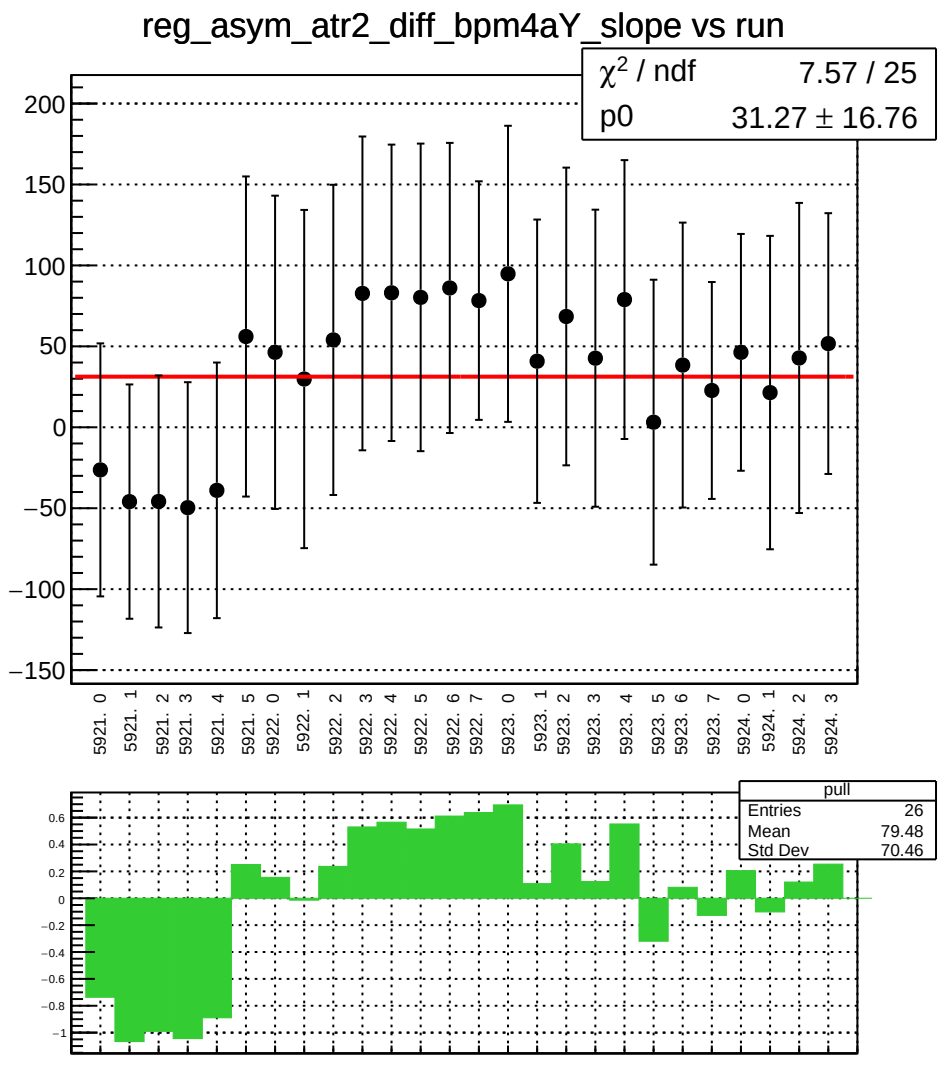

pull1D
Entries 26
Mean 0.01899
Std Dev 0.7962

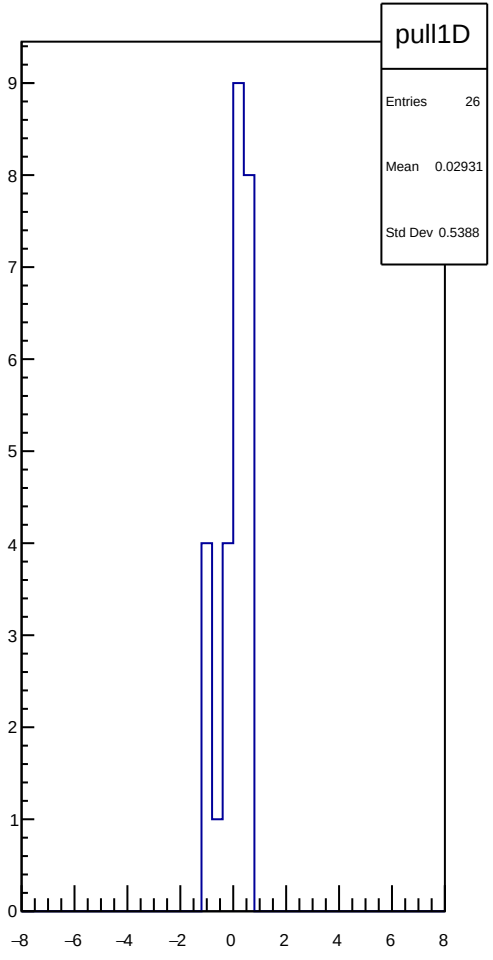

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 33.05 / 25
p0 −21.24 ± 0.3918
pull
Entries 26
Mean 62.97
Std Dev 46.36

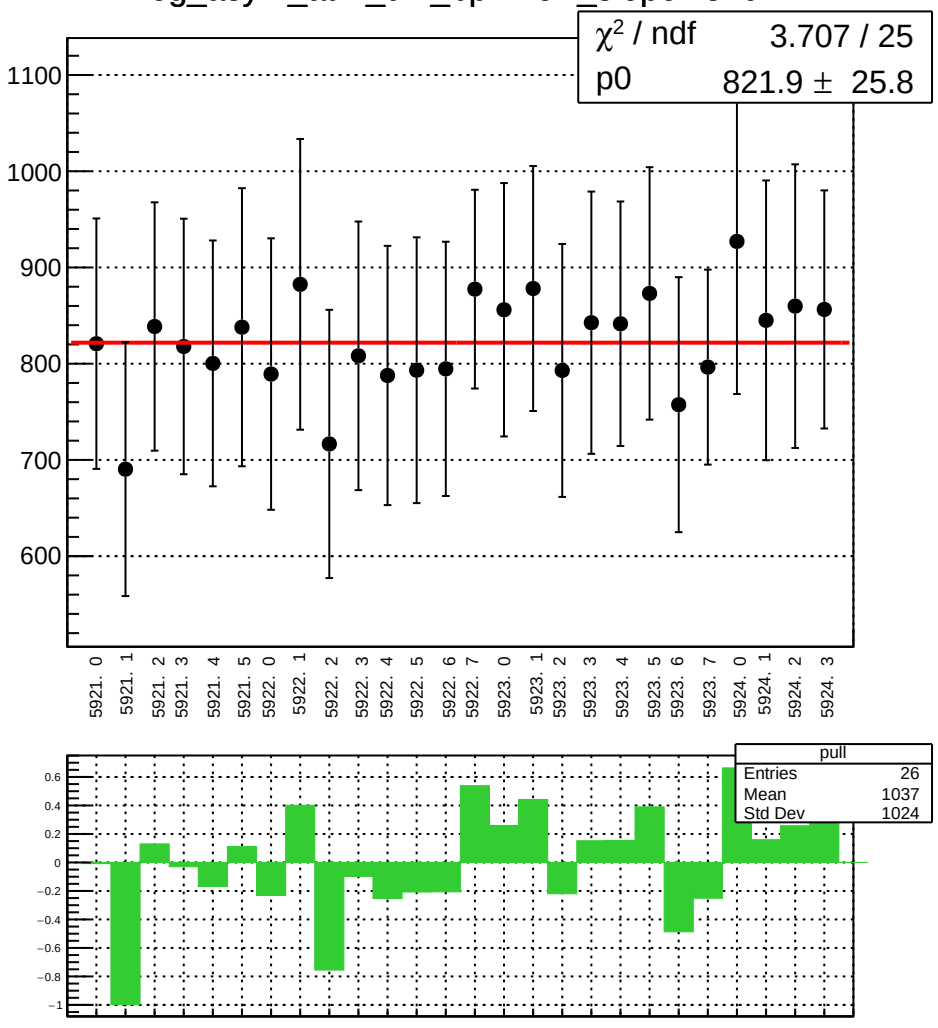

pull1D
Entries 26
Mean 0.03325
Std Dev 1.127

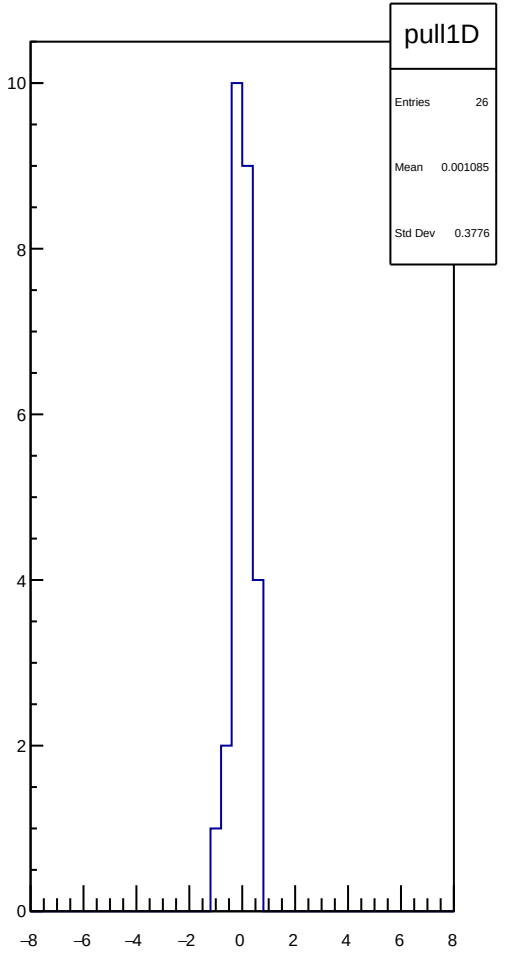

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 3.976 / 25
p0 −519.2 ± 20.51
−300
−400
−500
−600
−700
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −3062
Std Dev 3074
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

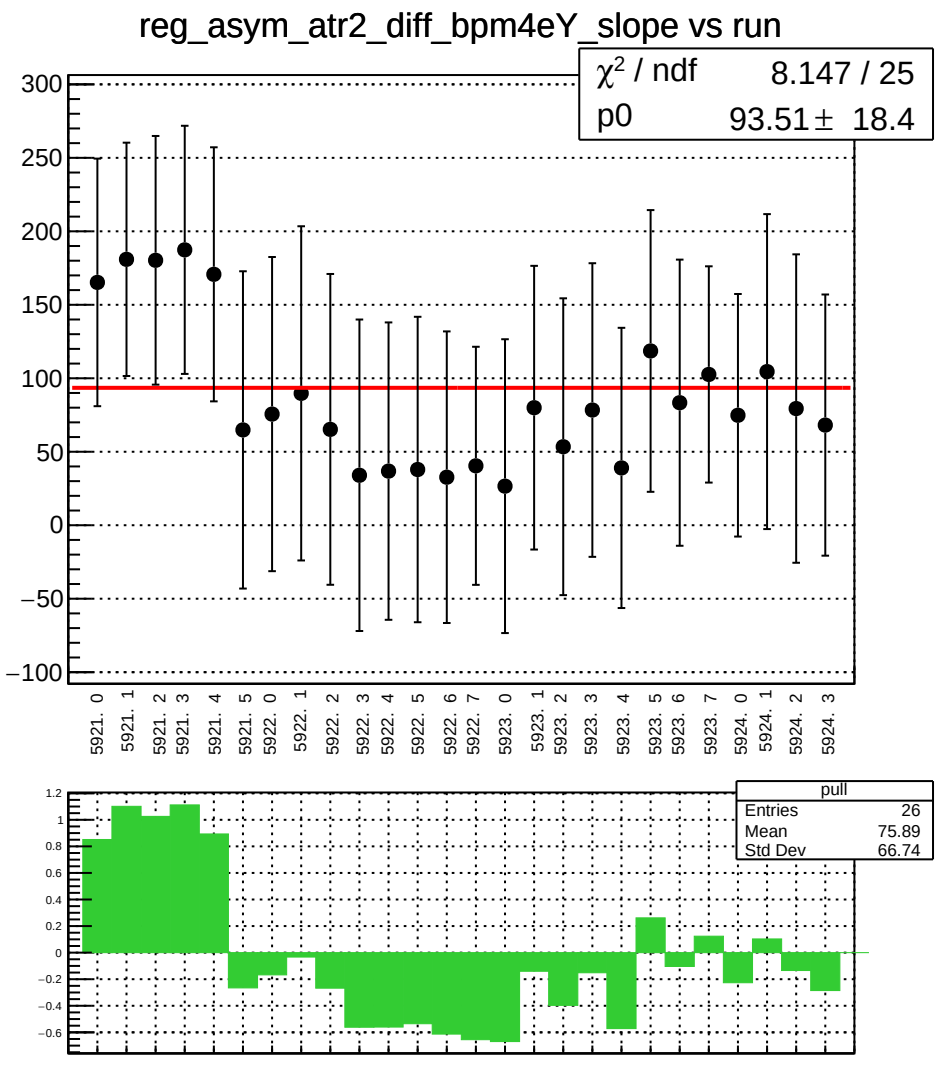

pull1D
Entries 26
Mean 0.0003928
Std Dev 0.391
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

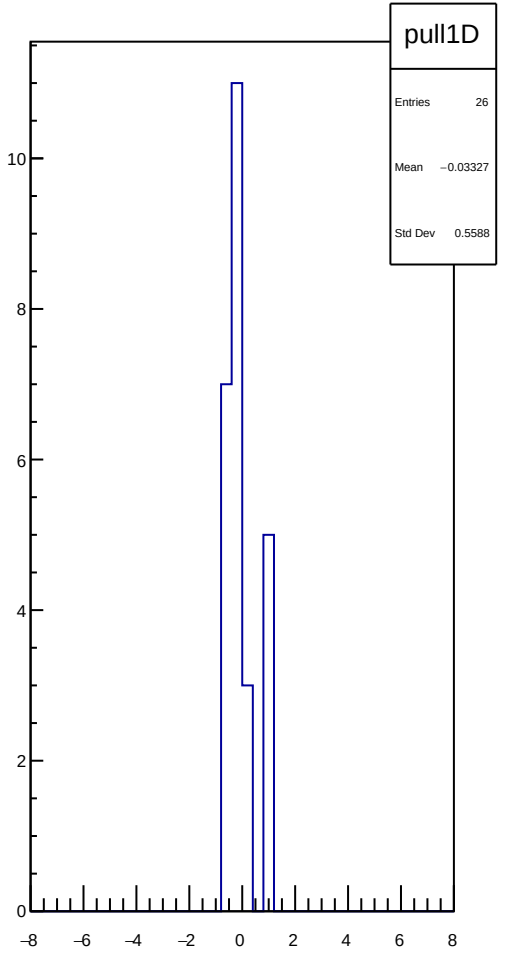

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 7.57 / 25
p0 31.27 ± 16.76
200
150
100
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 79.48
Std Dev 70.46
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

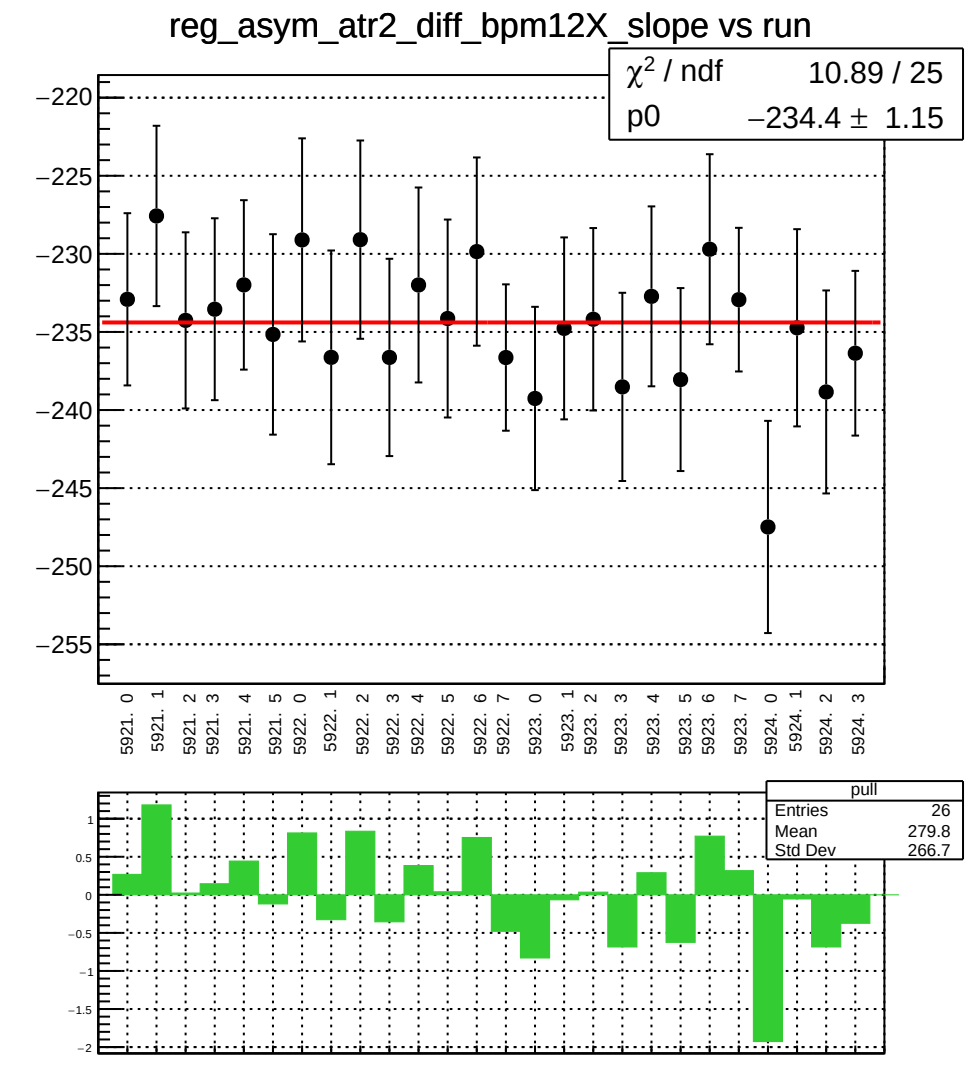

pull1D
Entries 26
Mean 0.02931
Std Dev 0.5388
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

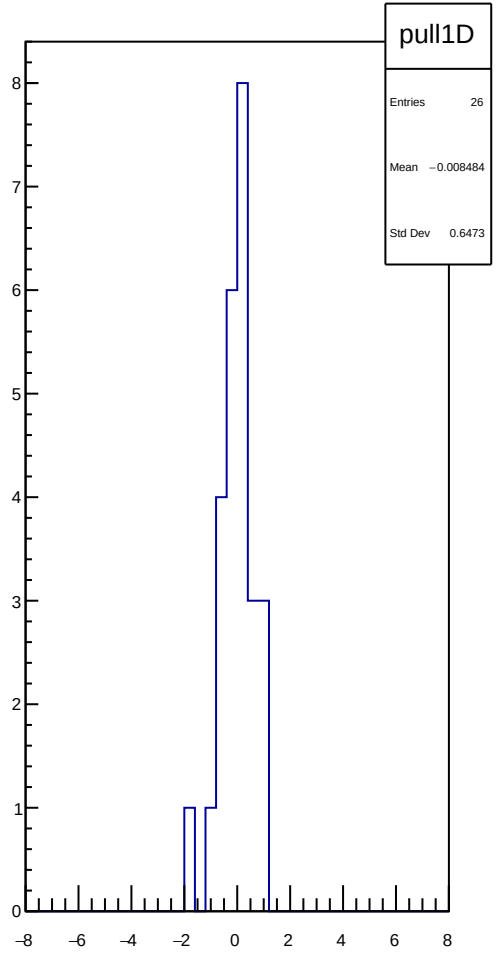

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.707 / 25
p0 821.9 ± 25.8
1100
1000
900
800
700
600
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1037
Std Dev 1024
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

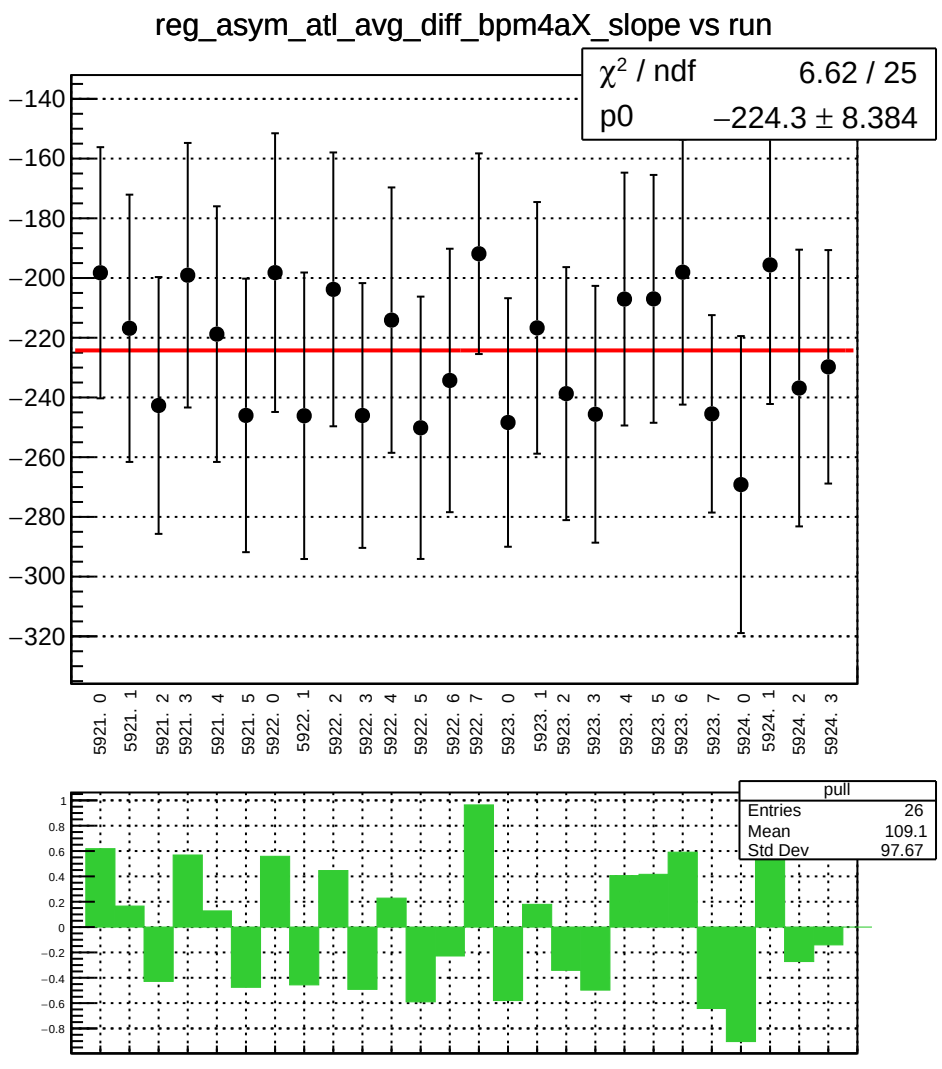

pull1D
Entries 26
Mean 0.001085
Std Dev 0.3776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

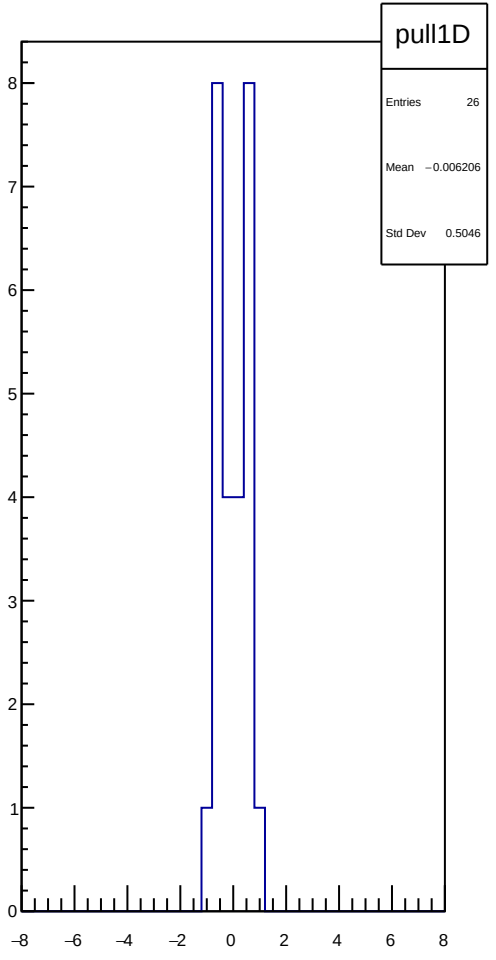

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.147 / 25
p0 93.51 ± 18.4
300
250
200
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 75.89
Std Dev 66.74
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

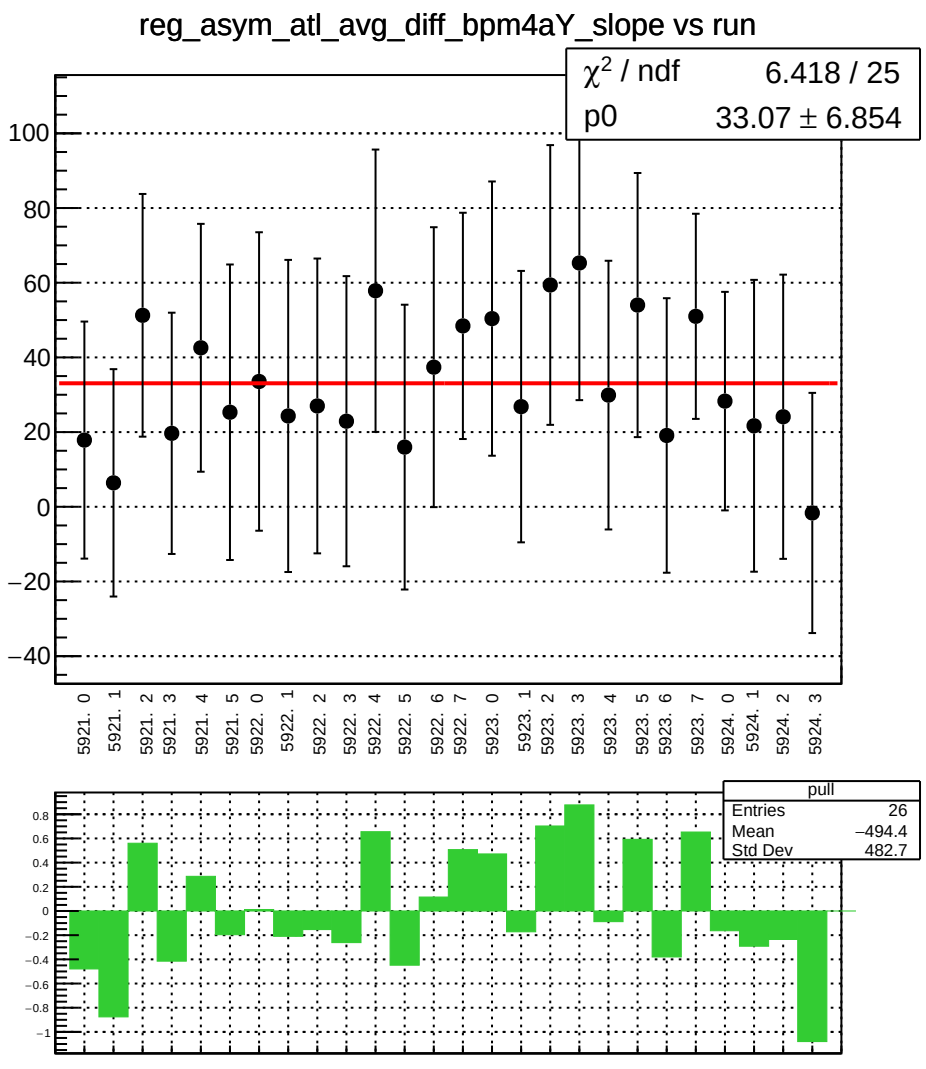

pull1D
Entries 26
Mean −0.03327
Std Dev 0.5588
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

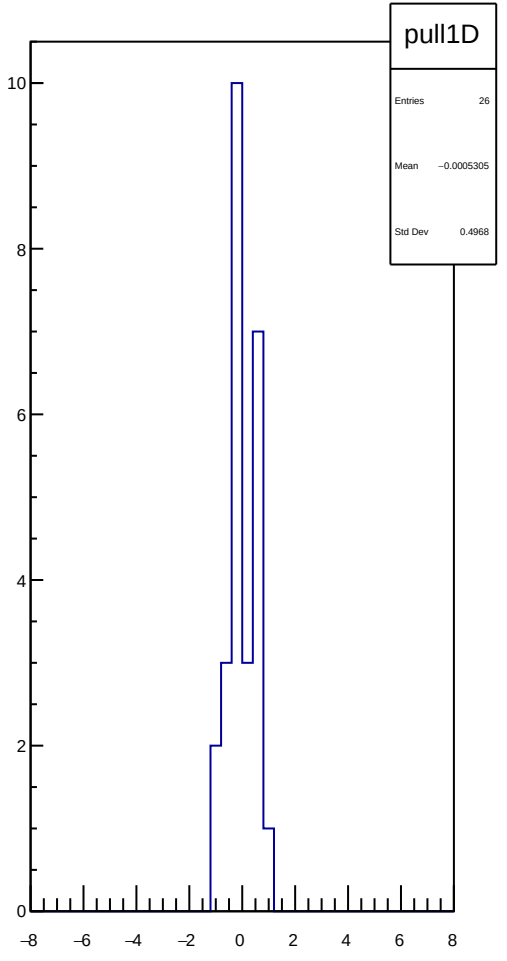

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 10.89 / 25
p0 −234.4 ± 1.15
−220
−225
−230
−235
−240
−245
−250
−255
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 279.8
Std Dev 266.7
1
0.5
0
−0.5
−1
−1.5
−2

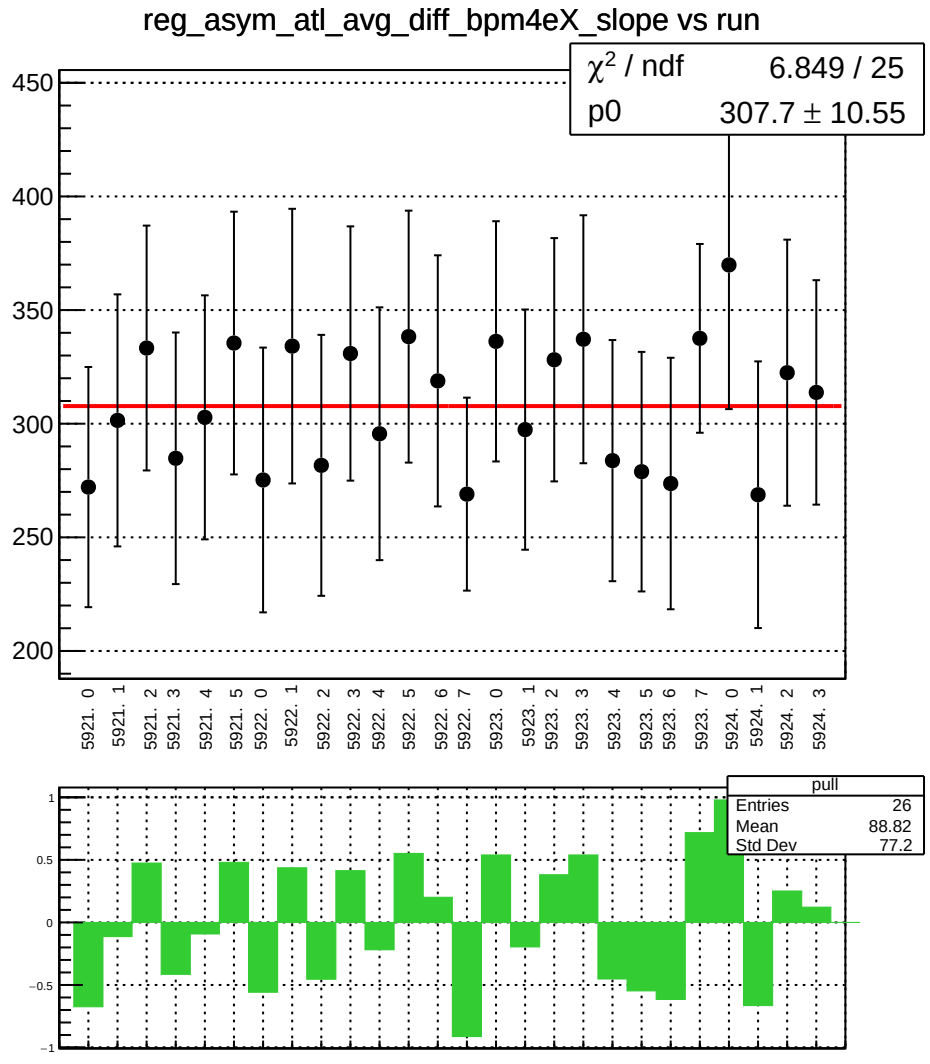

pull1D
Entries 26
Mean −0.008484
Std Dev 0.6473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

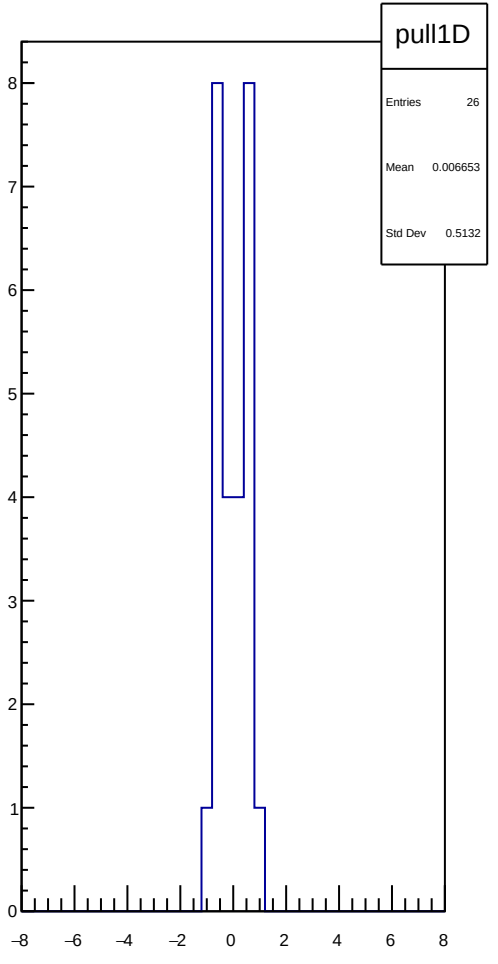

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.62 / 25
p0 −224.3 ± 8.384
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 109.1
Std Dev 97.67
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

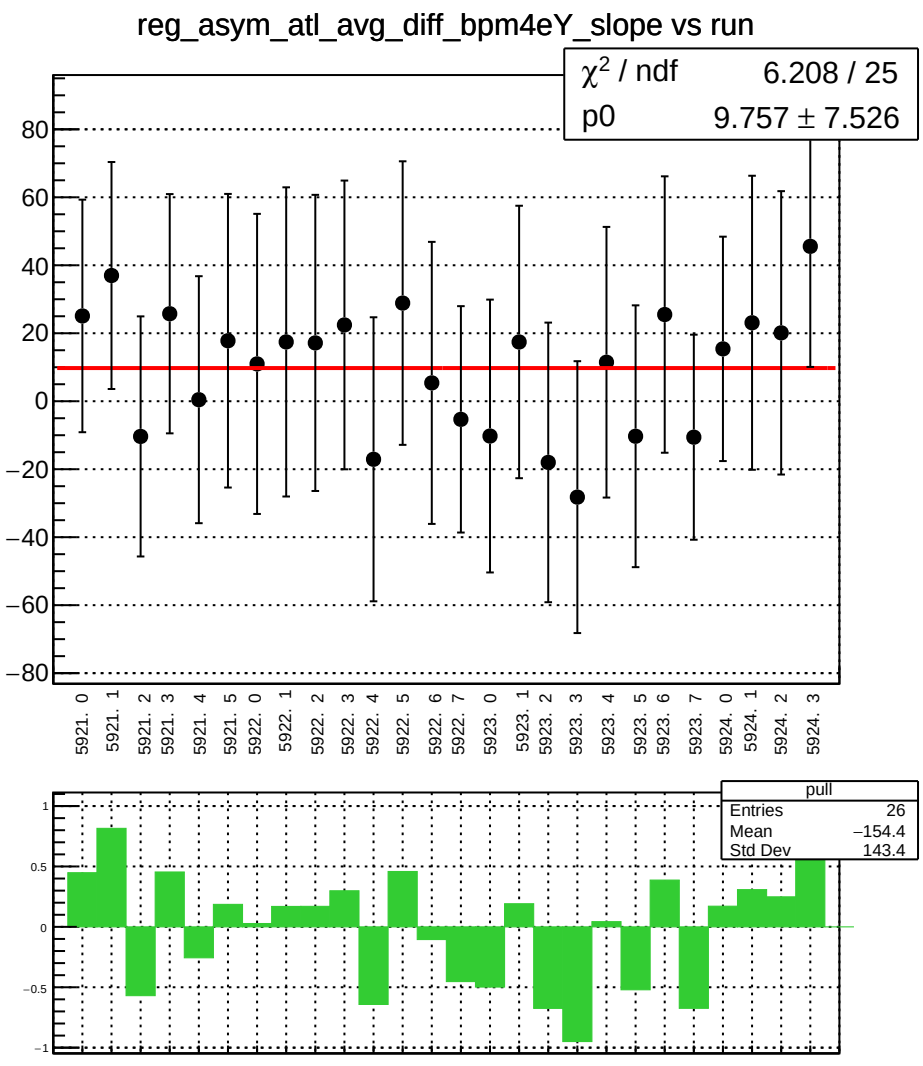

pull1D
Entries 26
Mean −0.006206
Std Dev 0.5046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

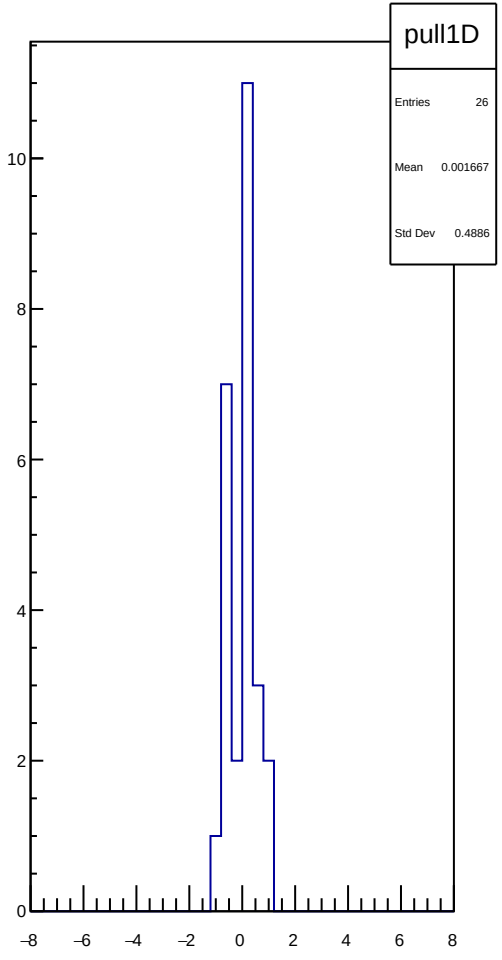

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.418 / 25
p0 33.07 ± 6.854
100
80
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −494.4
Std Dev 482.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

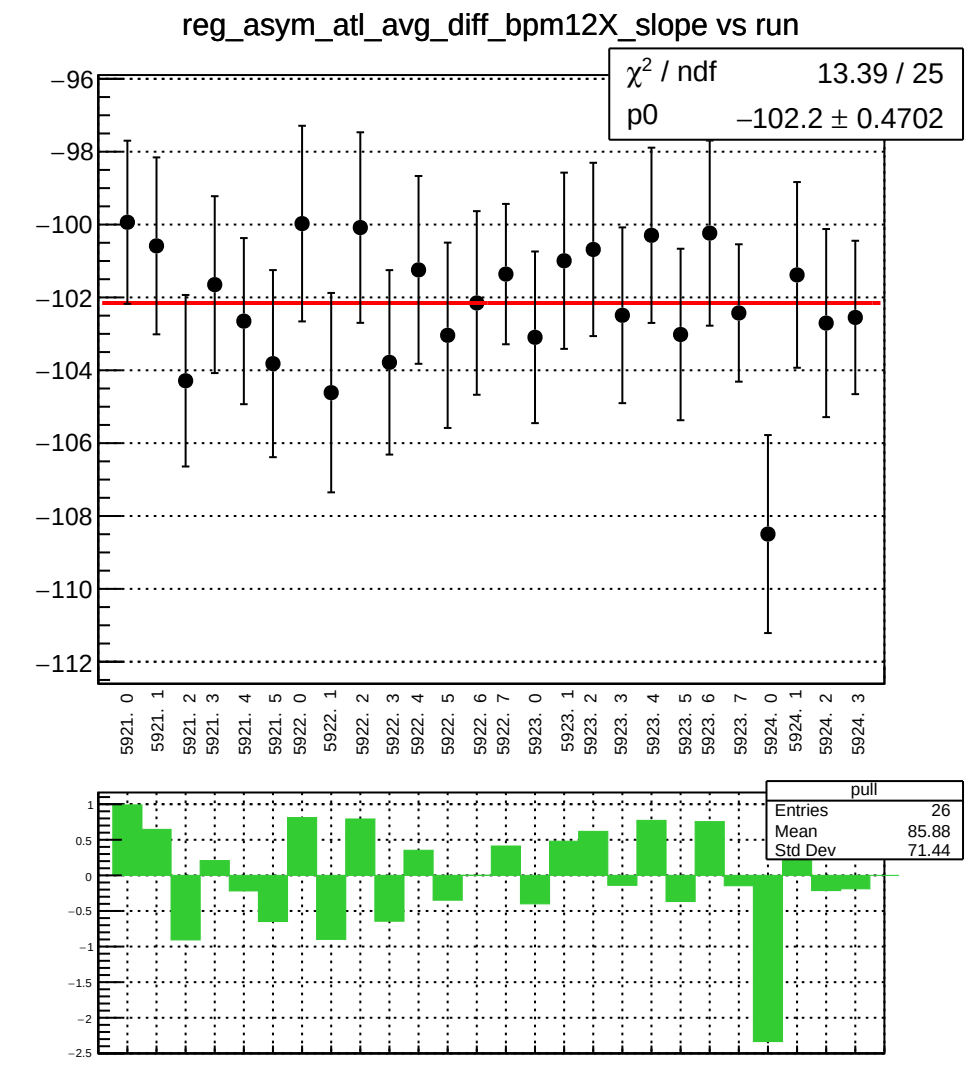

pull1D
Entries 26
Mean −0.0005305
Std Dev 0.4968
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

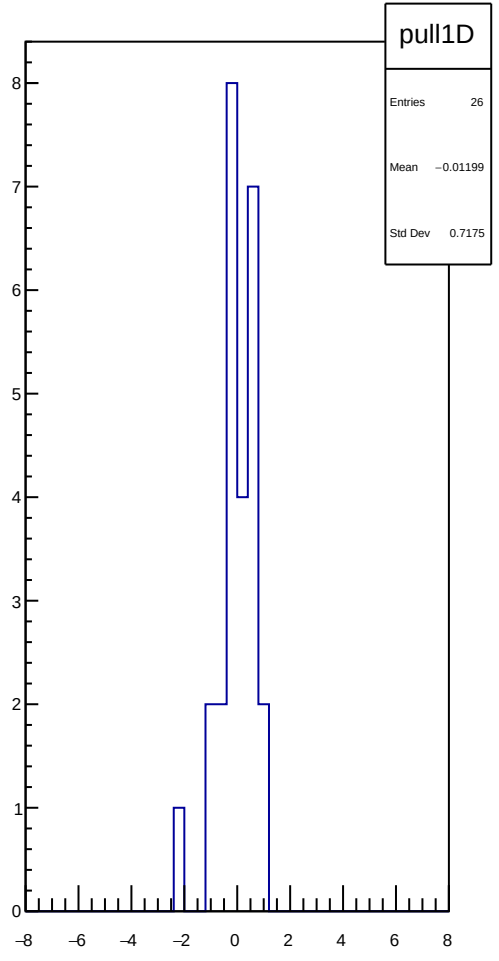

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.849 / 25
p0 307.7 ± 10.55
450
400
350
300
250
200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 88.82
Std Dev 77.2
1
0.5
0
−0.5
−1

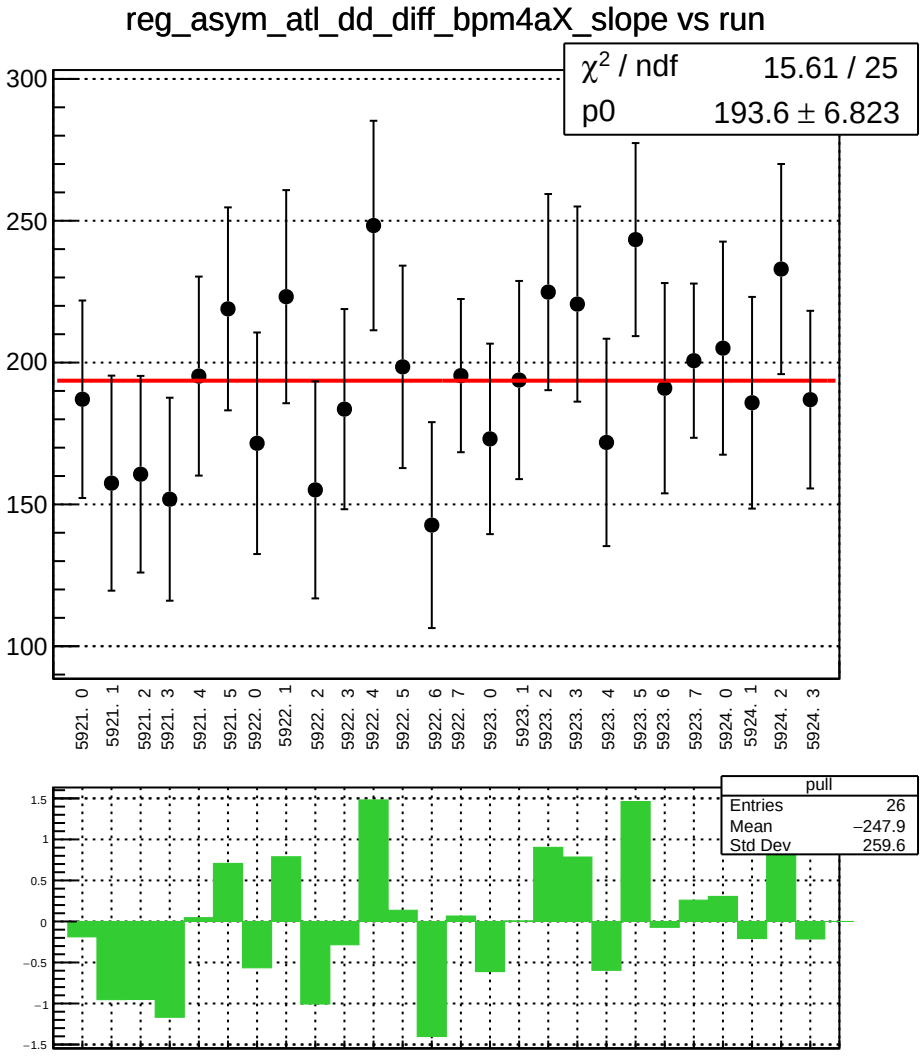

pull1D
Entries 26
Mean 0.006653
Std Dev 0.5132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

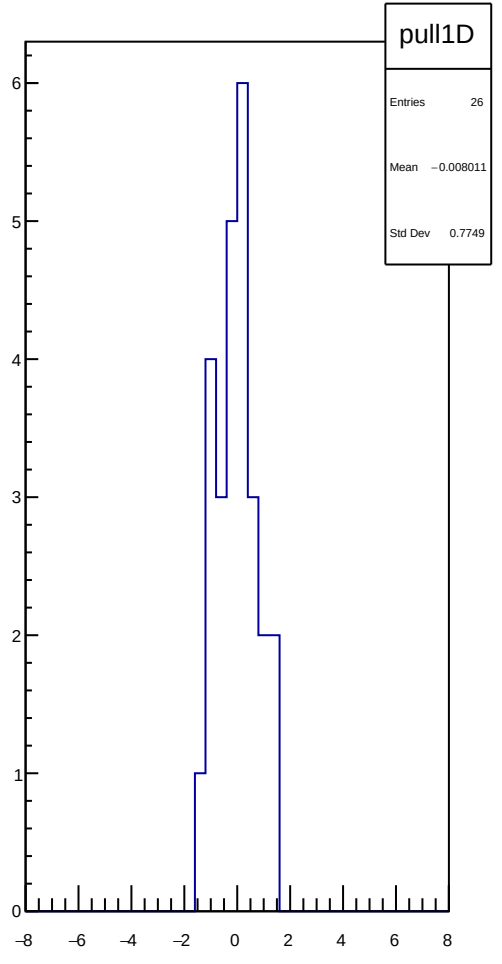

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.208 / 25
p0 9.757 ± 7.526
pull
Entries 26
Mean −154.4
Std Dev 143.4

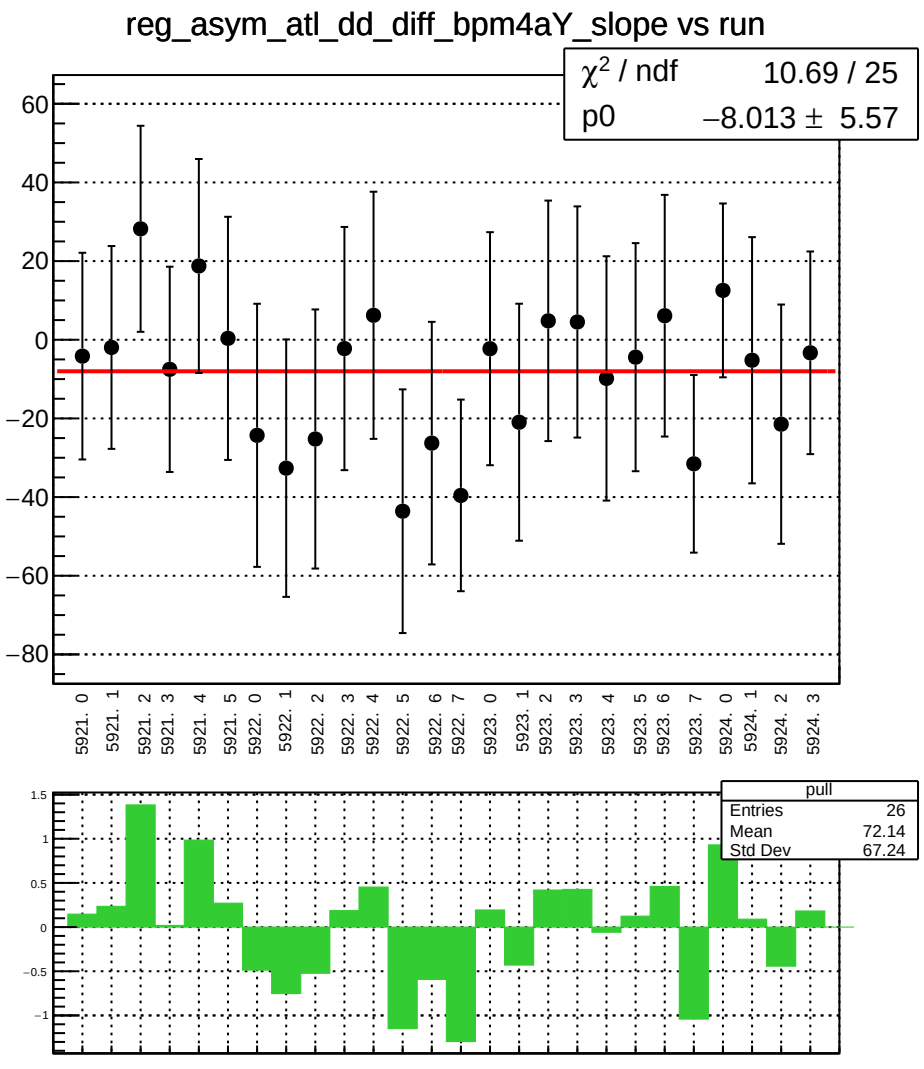

pull1D
Entries 26
Mean 0.001667
Std Dev 0.4886

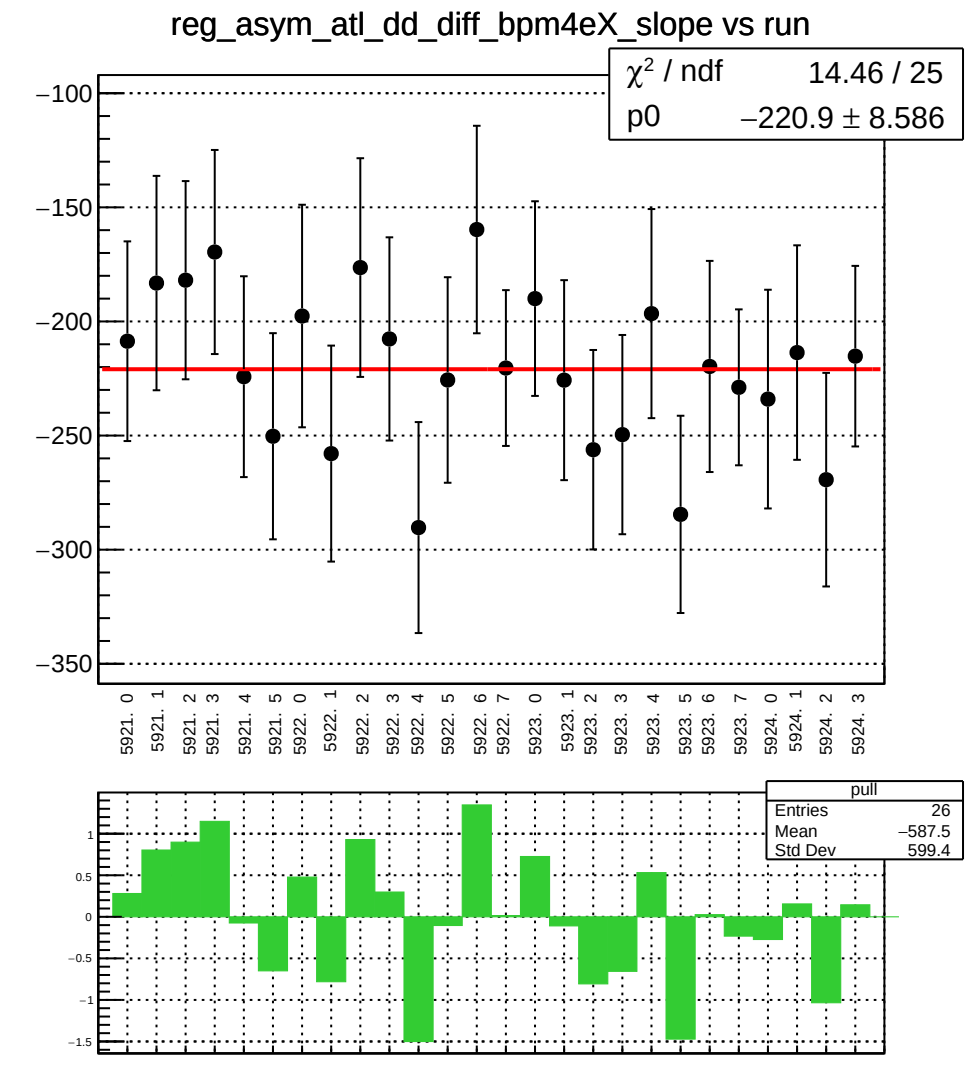

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 13.39 / 25
p0 −102.2 ± 0.4702
pull
Entries 26
Mean 85.88
Std Dev 71.44

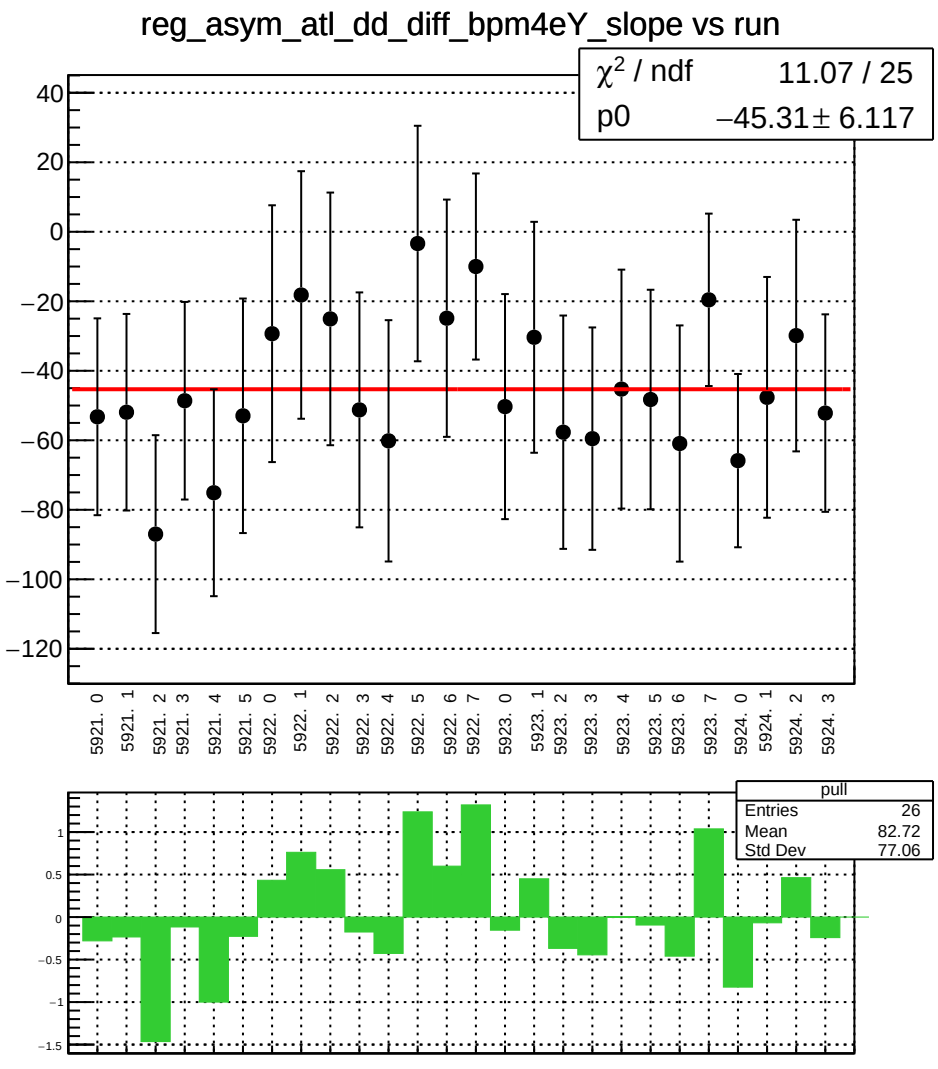

pull1D
Entries 26
Mean −0.01199
Std Dev 0.7175

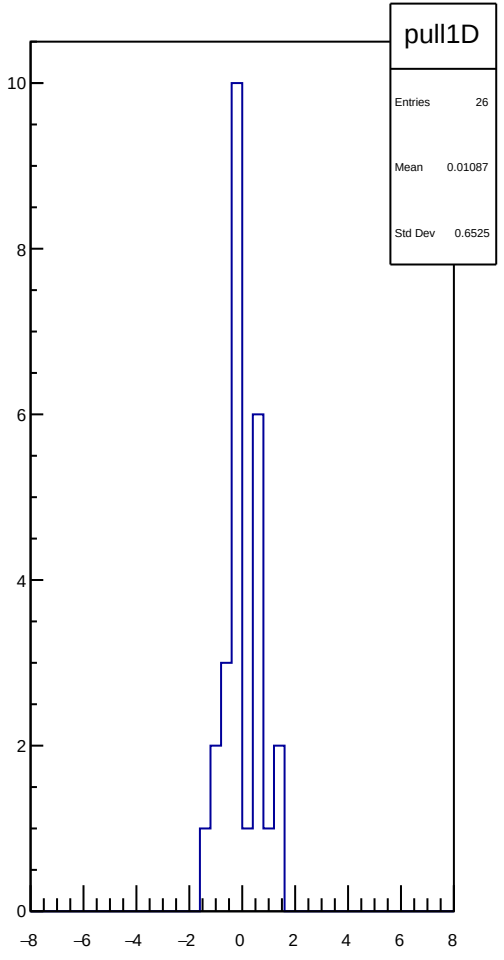

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.61 / 25
p0 193.6 ± 6.823
300
250
200
150
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −247.9
Std Dev 259.6
1.5
1
0.5
0
−0.5
−1
−1.5

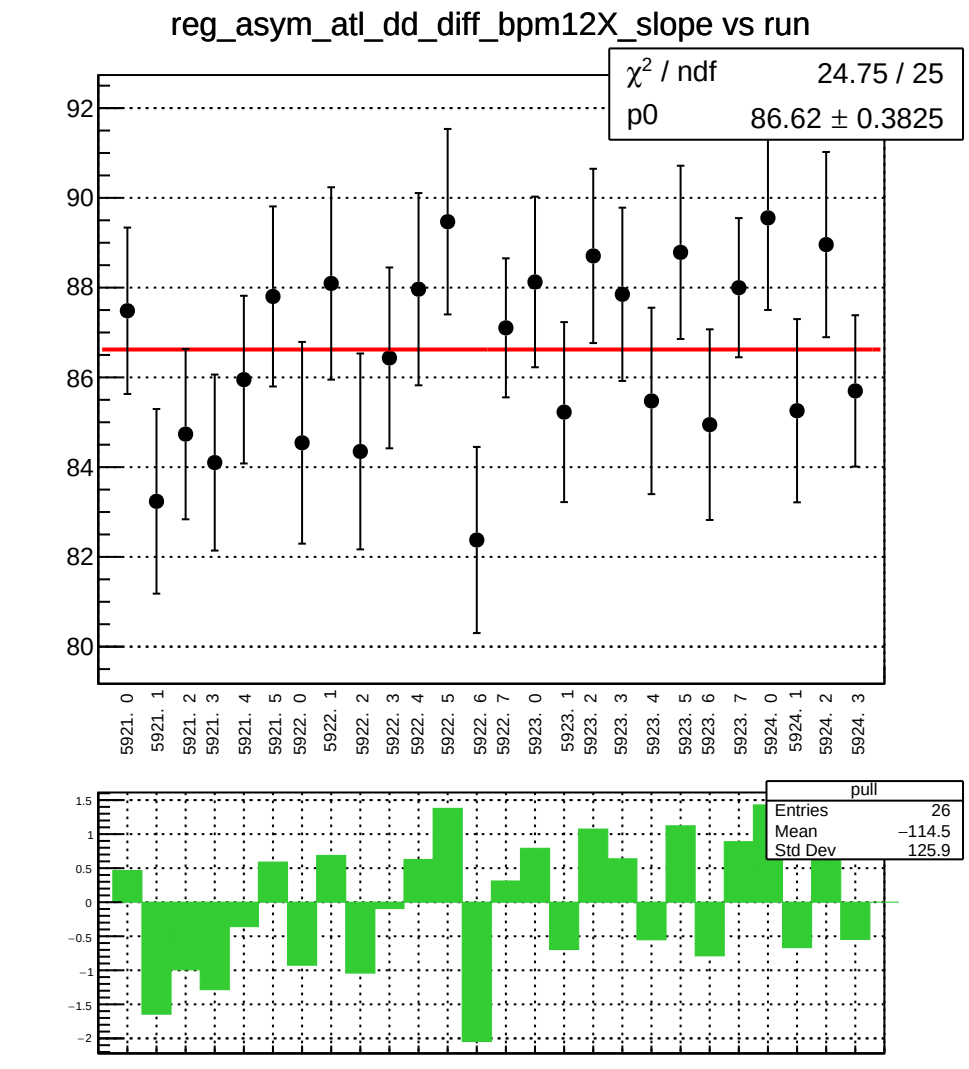

pull1D
Entries 26
Mean −0.008011
Std Dev 0.7749
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

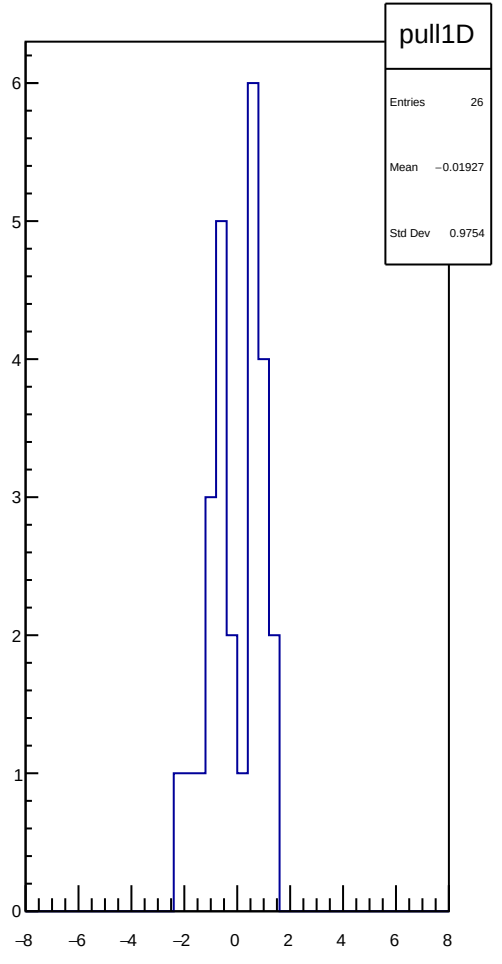

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.69 / 25
p0 −8.013 ± 5.57
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 72.14
Std Dev 67.24
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.01023
Std Dev 0.6413
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

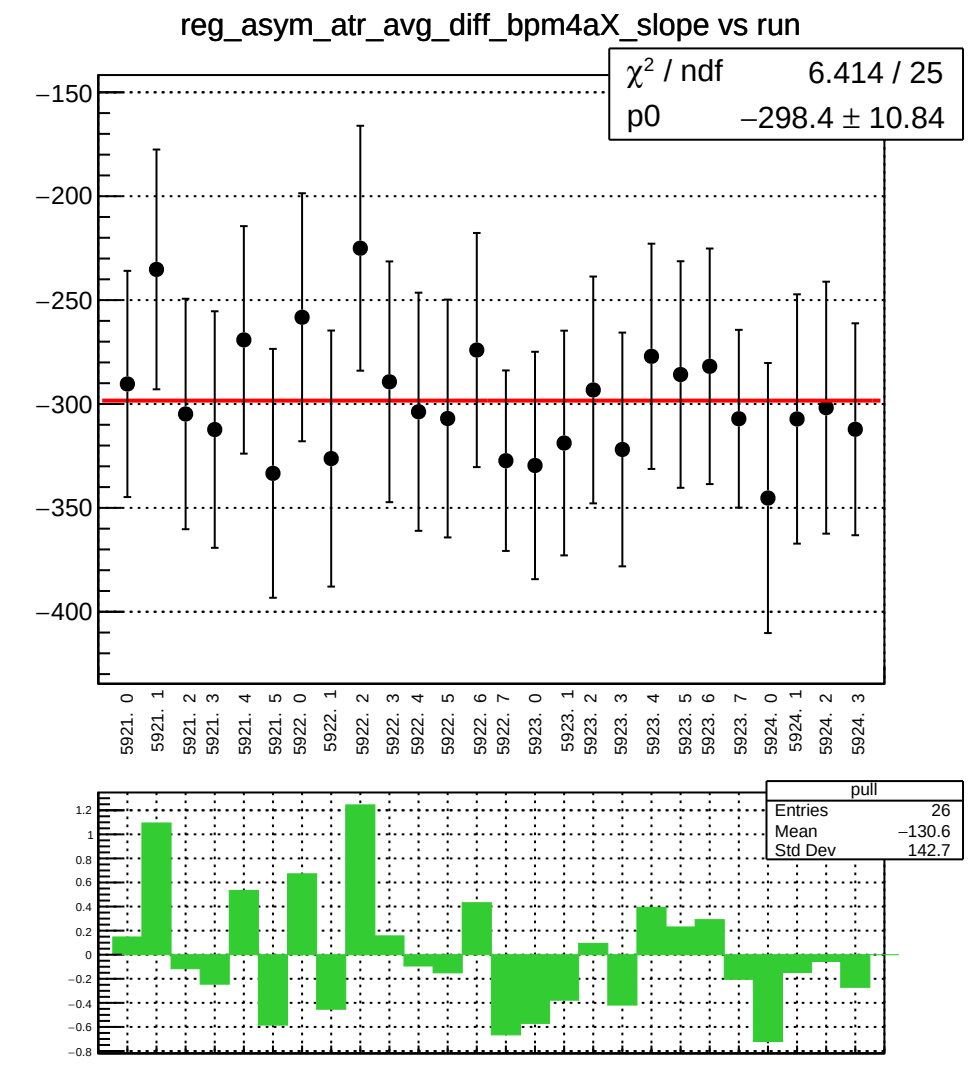

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.46 / 25
p0 −220.9 ± 8.586
−100
−150
−200
−250
−300
−350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −587.5
Std Dev 599.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.003382
Std Dev 0.7458
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

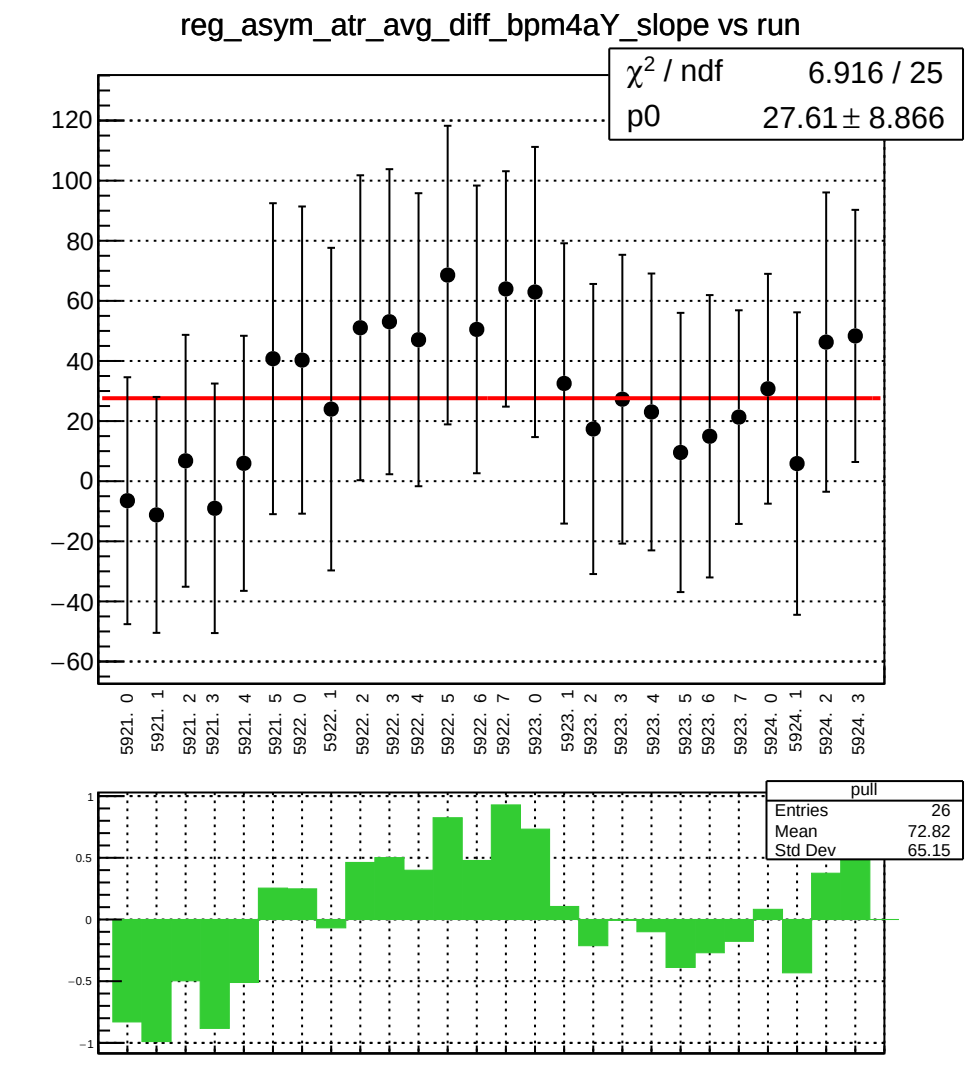

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.07 / 25
p0 −45.31 ± 6.117
40
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 82.72
Std Dev 77.06
1
0.5
0
−0.5
−1
−1.5

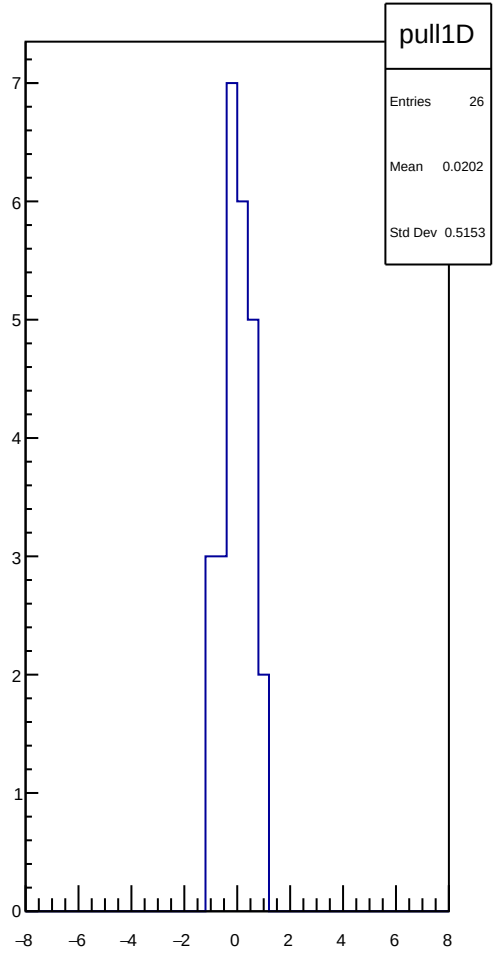

pull1D
Entries 26
Mean 0.01087
Std Dev 0.6525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

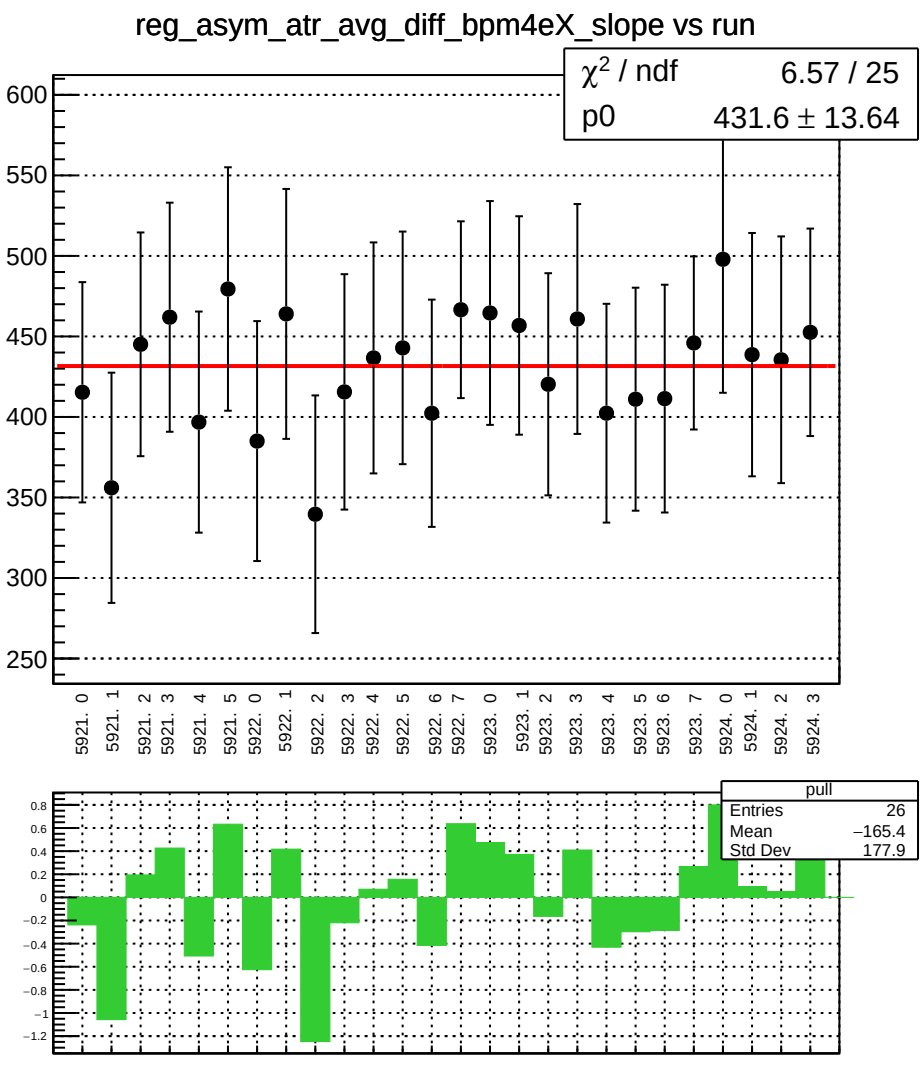

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 24.75 / 25
p0 86.62 ± 0.3825
92
90
88
86
84
82
80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −114.5
Std Dev 125.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

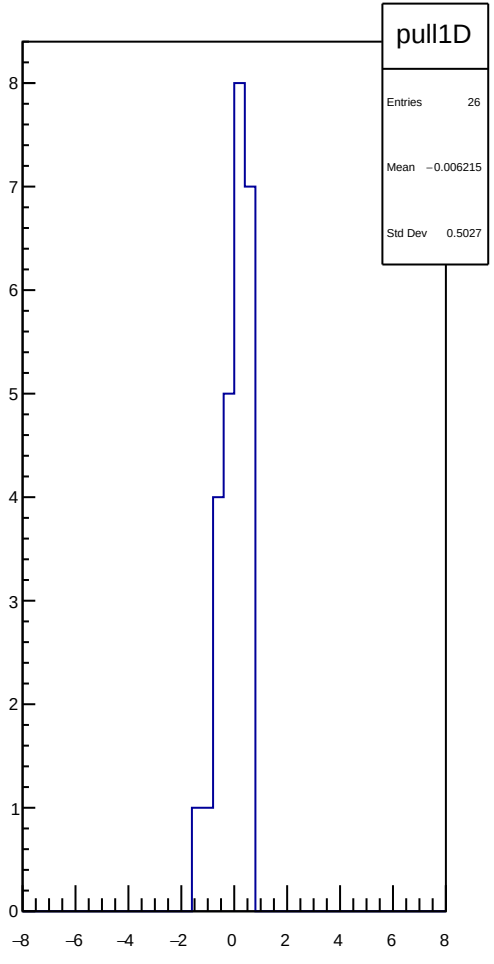

pull1D
Entries 26
Mean −0.01927
Std Dev 0.9754
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

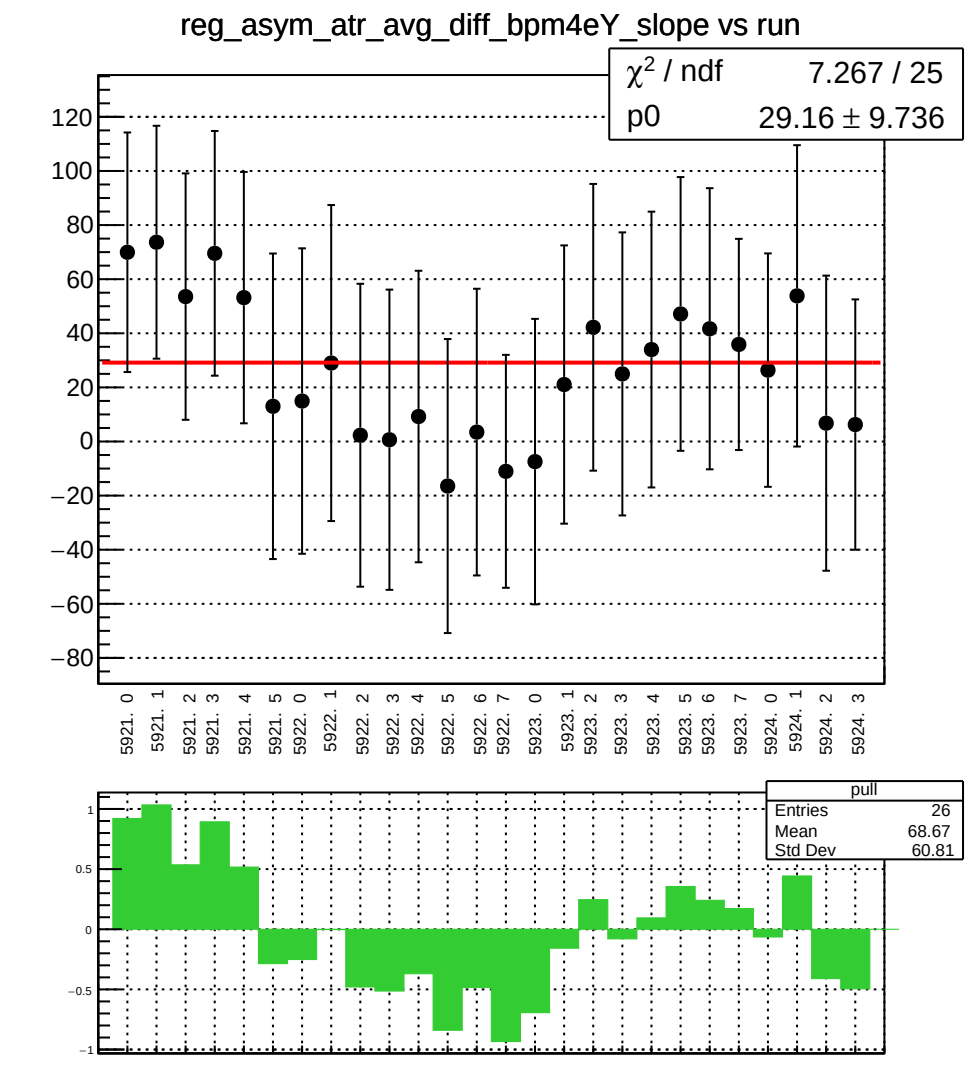

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.414 / 25
p0 −298.4 ± 10.84
−150
−200
−250
−300
−350
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −130.6
Std Dev 142.7
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.008253
Std Dev 0.4966
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

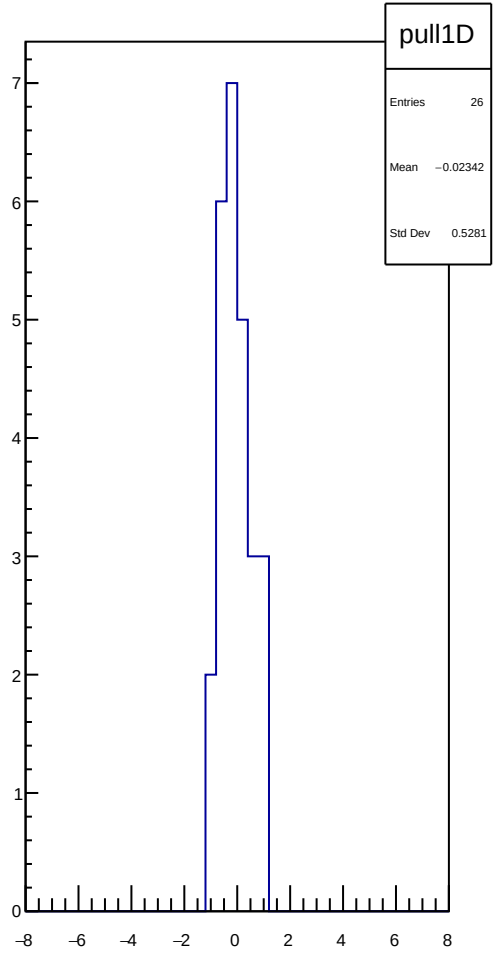

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.916 / 25
p0 27.61 ± 8.866
pull
Entries 26
Mean 72.82
Std Dev 65.15

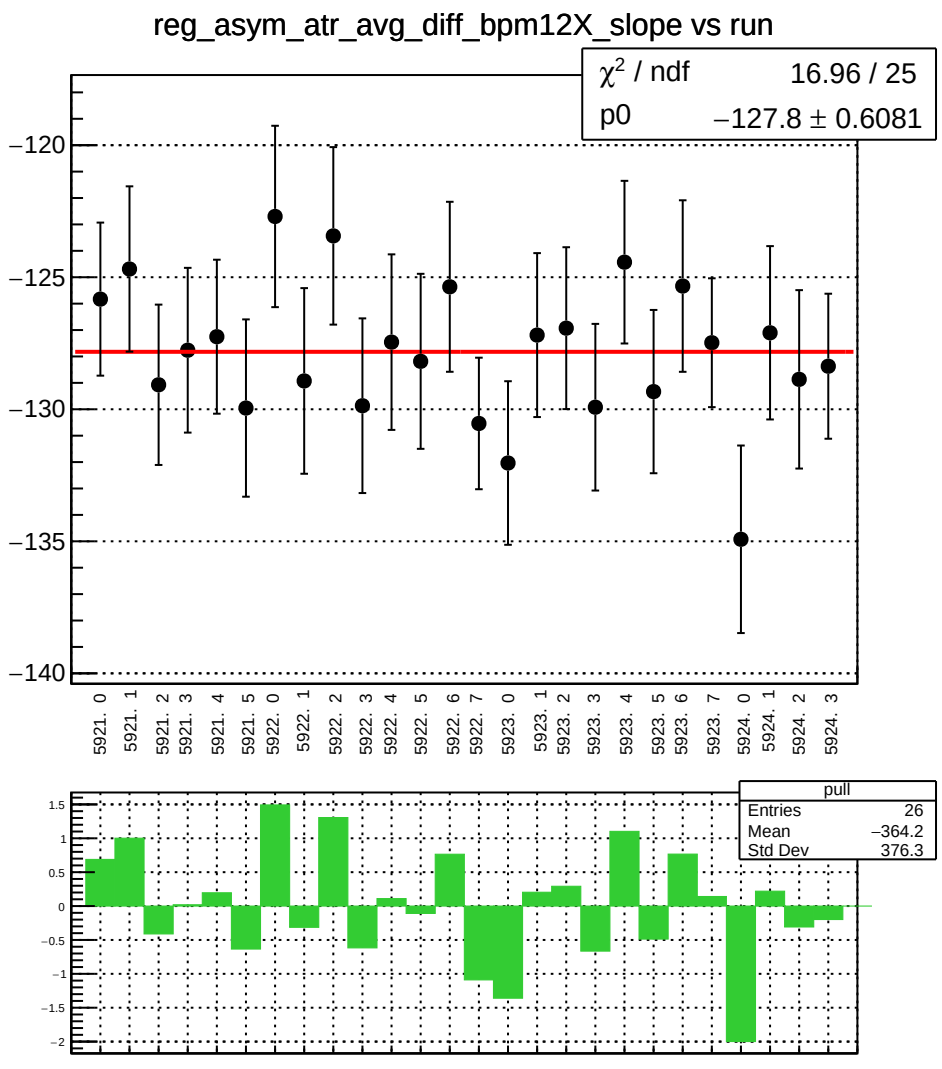

pull1D
Entries 26
Mean 0.0202
Std Dev 0.5153

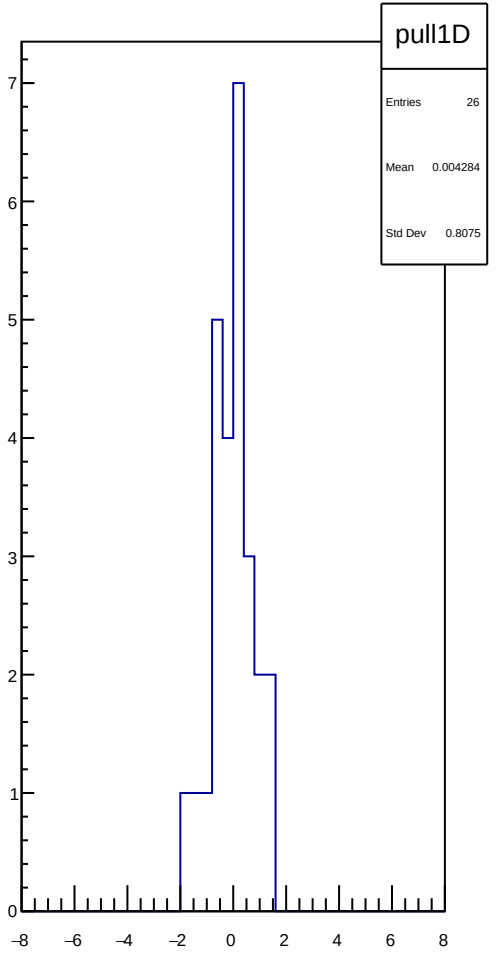

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.57 / 25
p0 431.6 ± 13.64
pull
Entries 26
Mean −165.4
Std Dev 177.9

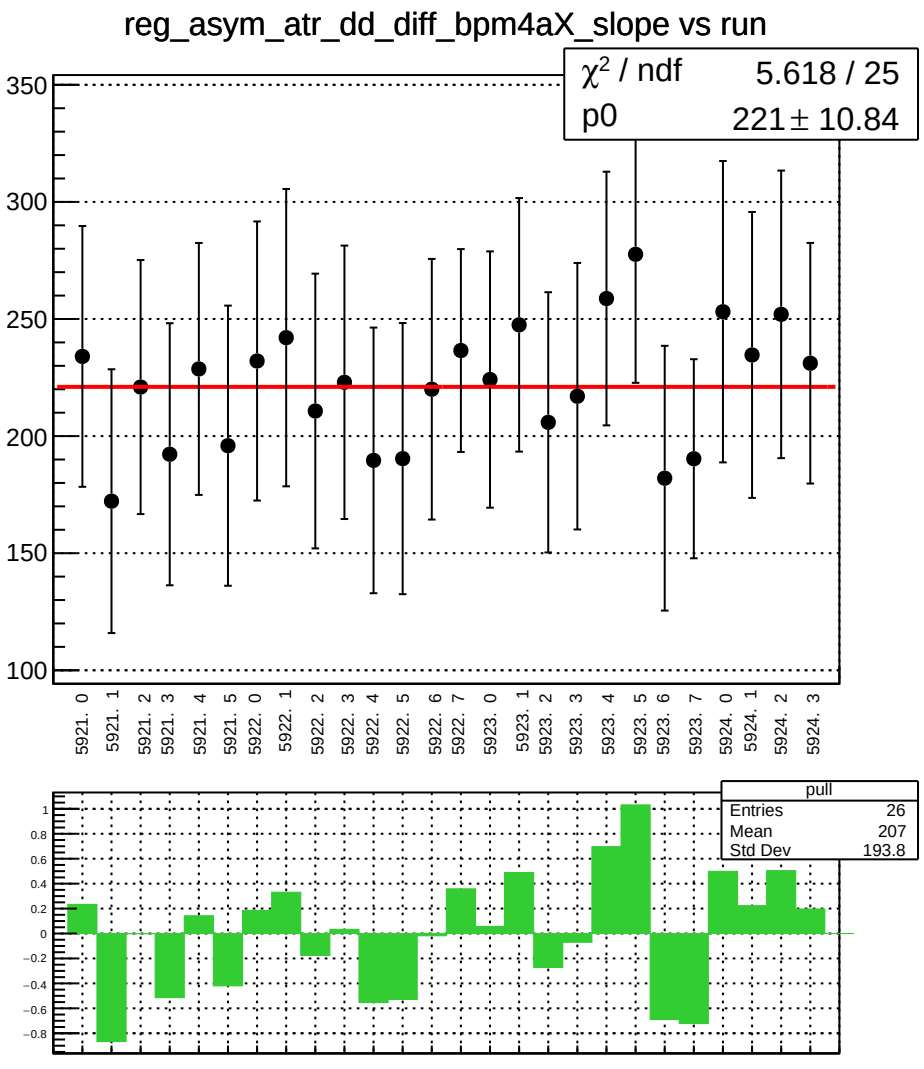

pull1D
Entries 26
Mean −0.006215
Std Dev 0.5027

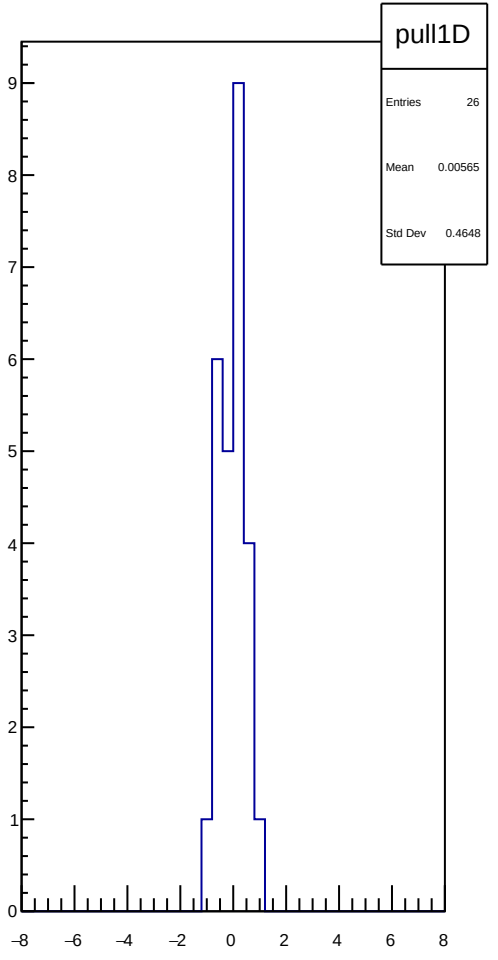

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.267 / 25
p0 29.16 ± 9.736
pull
Entries 26
Mean 68.67
Std Dev 60.81

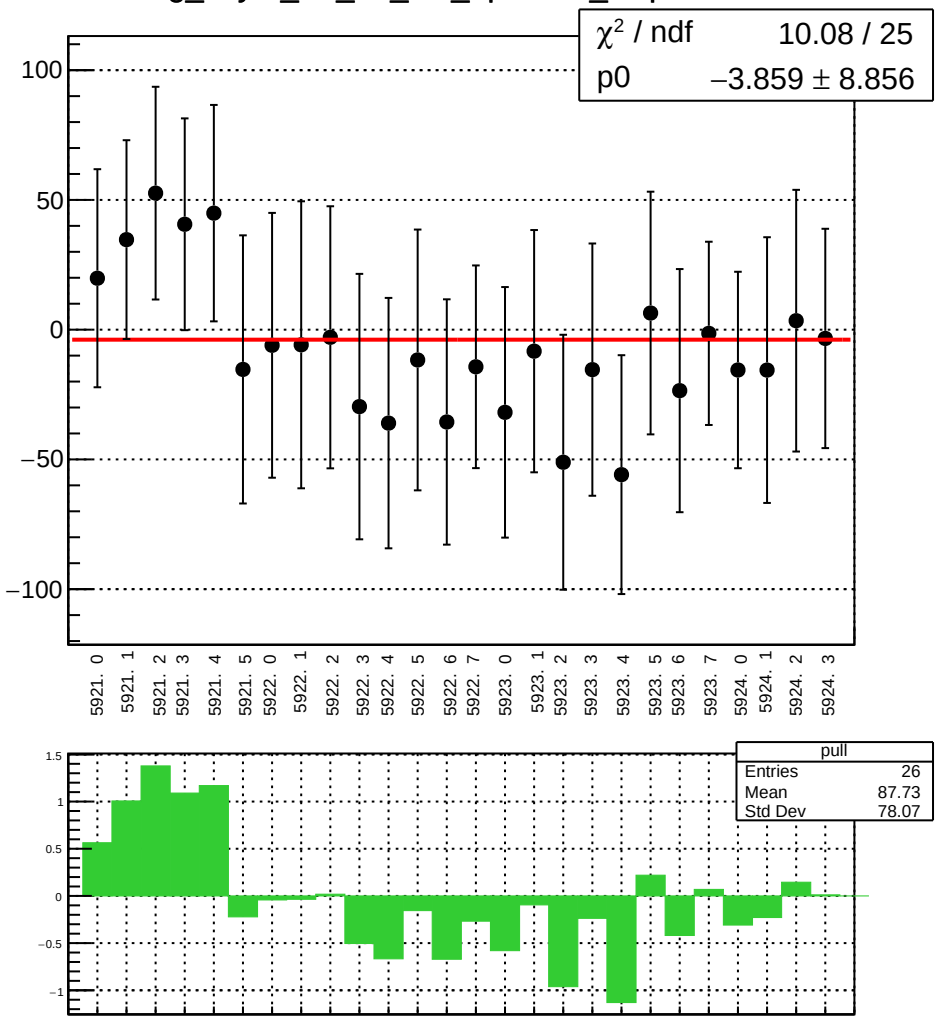

pull1D
Entries 26
Mean −0.02342
Std Dev 0.5281

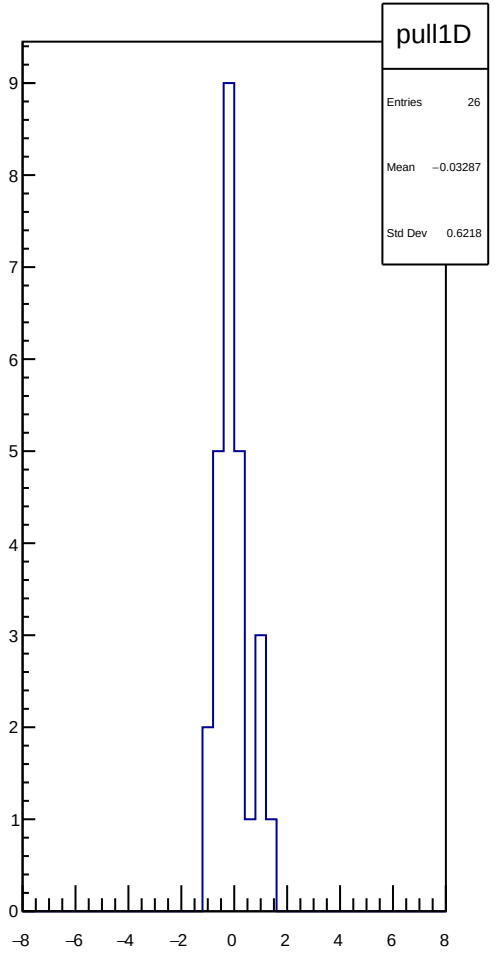

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 16.96 / 25
p0 −127.8 ± 0.6081
−120
−125
−130
−135
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −364.2
Std Dev 376.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

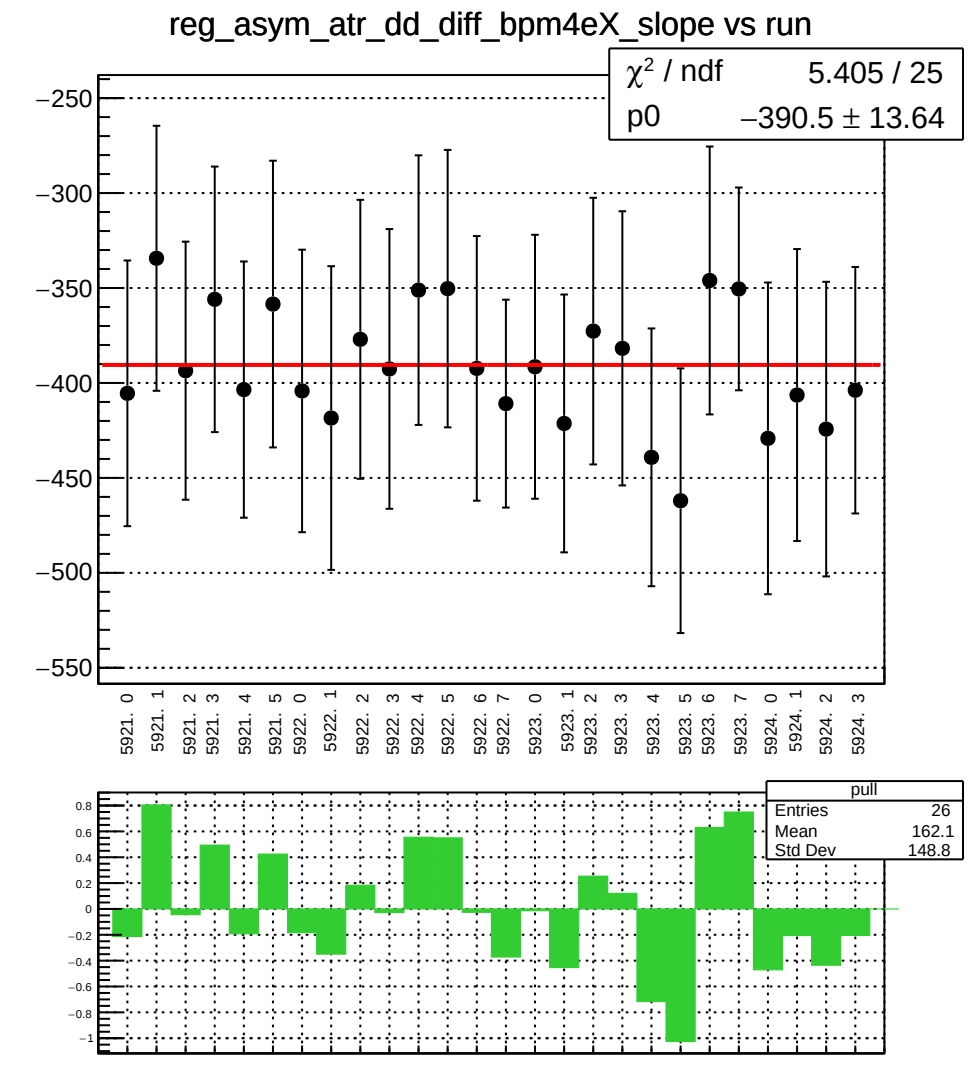

pull1D
Entries 26
Mean 0.004284
Std Dev 0.8075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

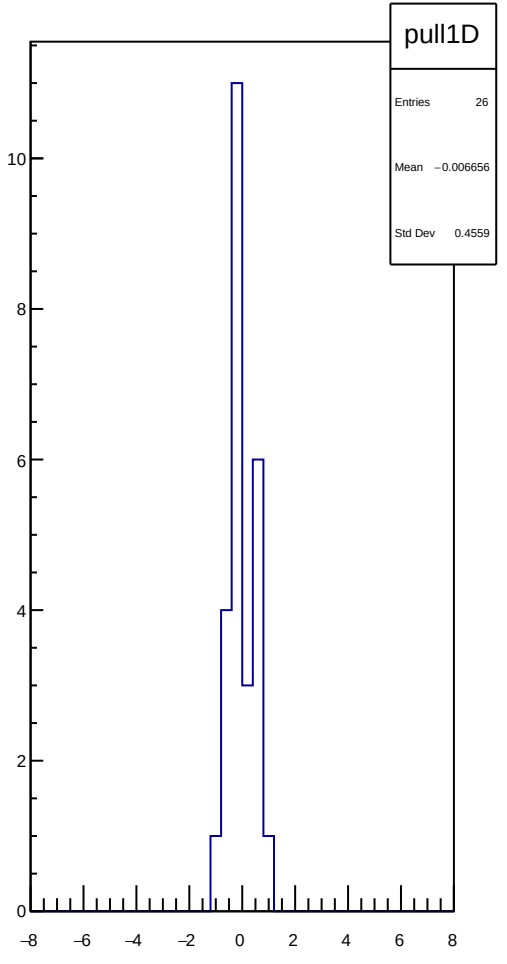

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.618 / 25
p0 221 ± 10.84
350
300
250
200
150
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 207
Std Dev 193.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

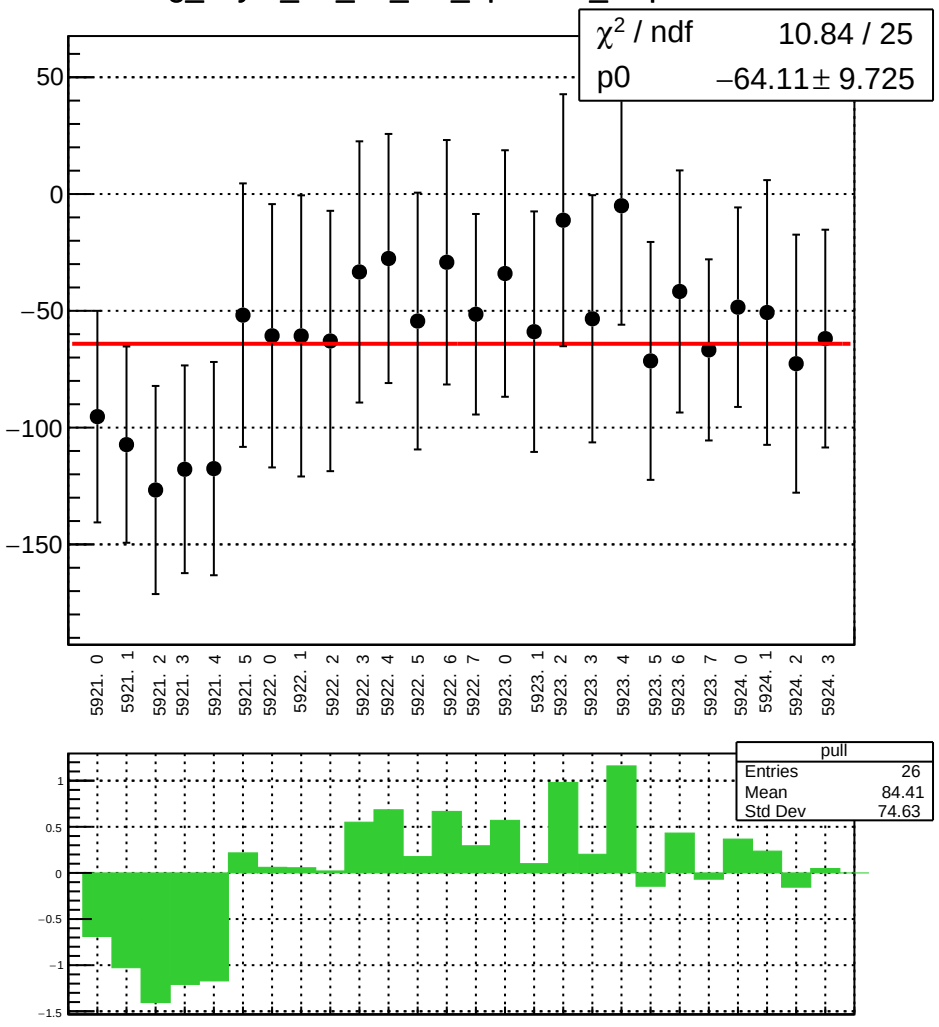

pull1D
Entries 26
Mean 0.00565
Std Dev 0.4648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

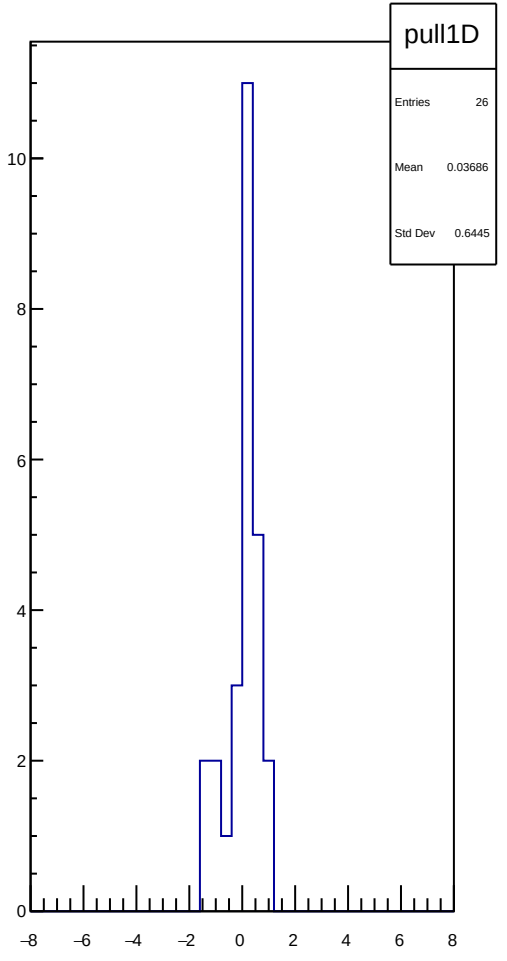

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.08 / 25
p0 −3.859 ± 8.856
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 87.73
Std Dev 78.07
1.5
1
0.5
0
−0.5
−1

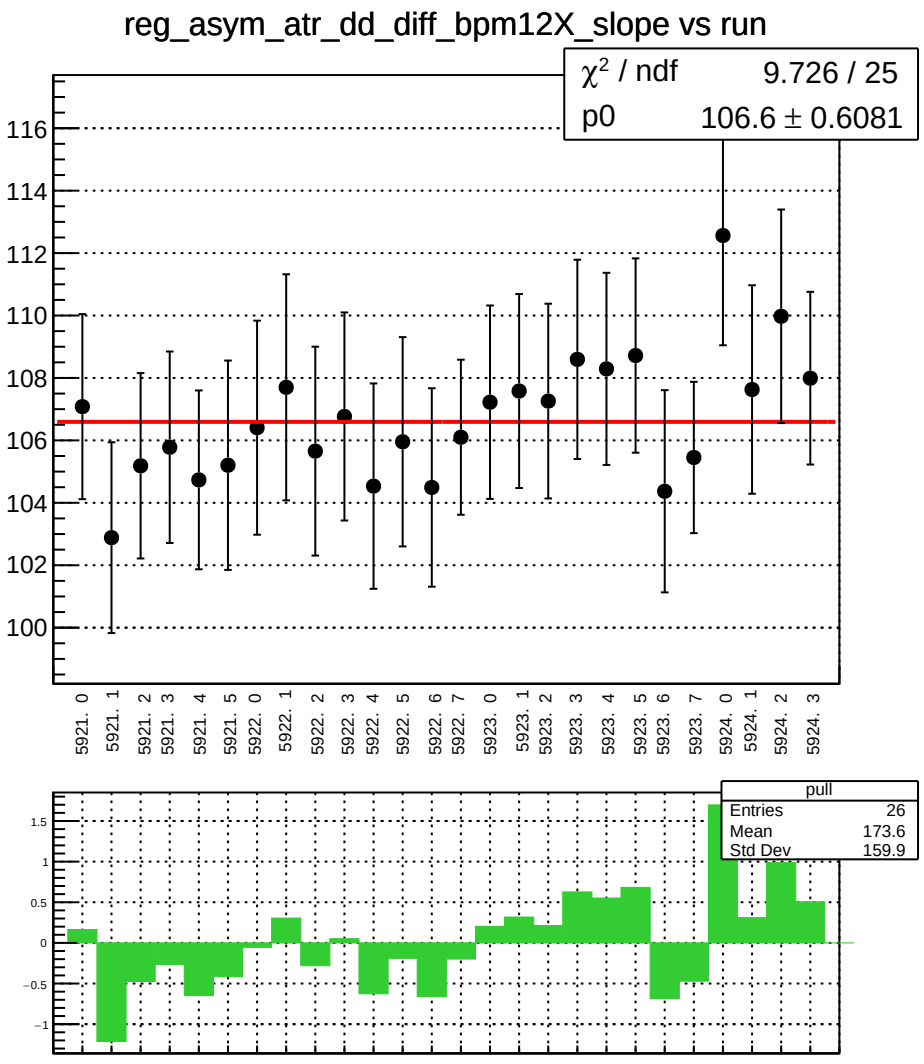

pull1D
Entries 26
Mean −0.03287
Std Dev 0.6218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

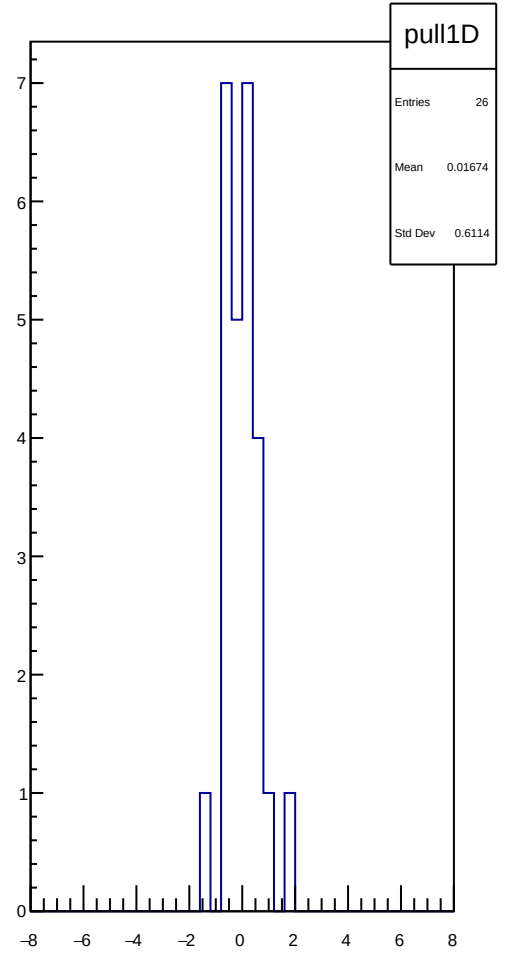

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.405 / 25
p0 −390.5 ± 13.64
−250
−300
−350
−400
−450
−500
−550
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 162.1
Std Dev 148.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

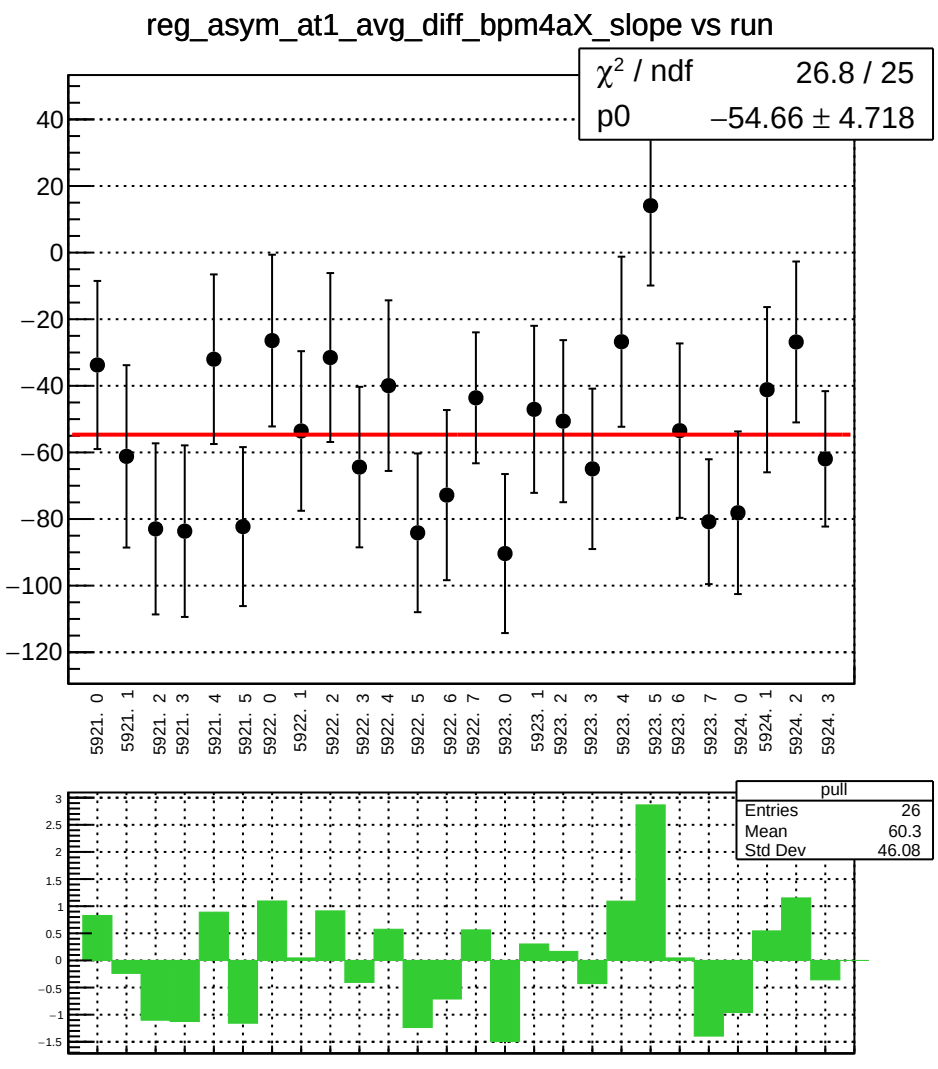

pull1D
Entries 26
Mean −0.006656
Std Dev 0.4559
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

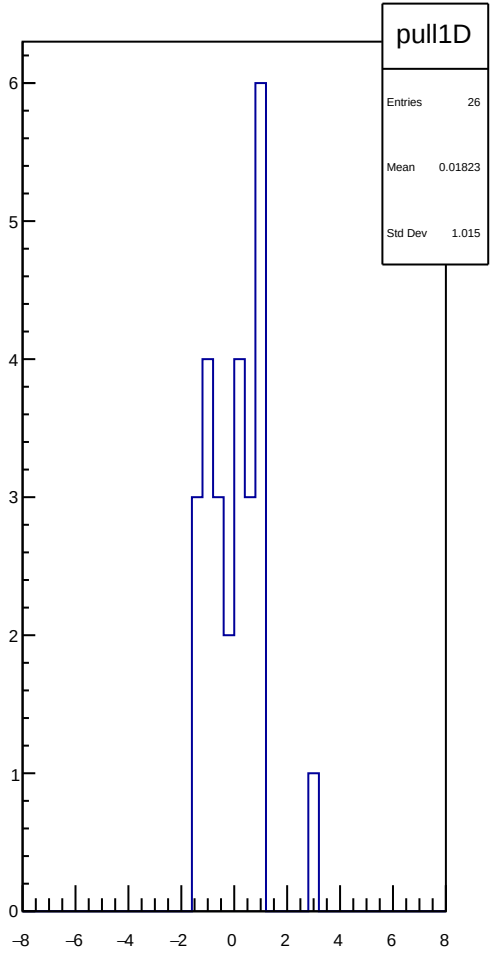

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 25
p0 −64.11 ± 9.725
50
0
−50
−100
−150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.41
Std Dev 74.63
1
0.5
0
−0.5
−1
−1.5

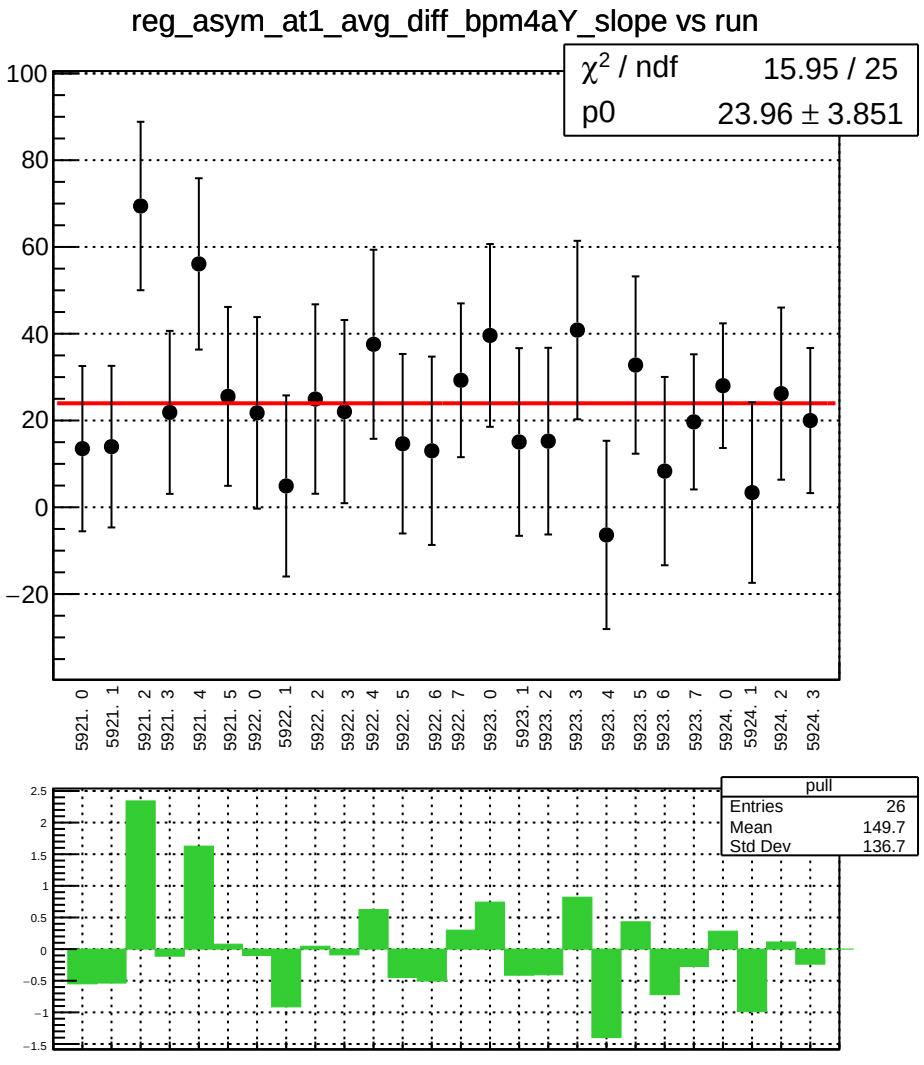

pull1D
Entries 26
Mean 0.03686
Std Dev 0.6445
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

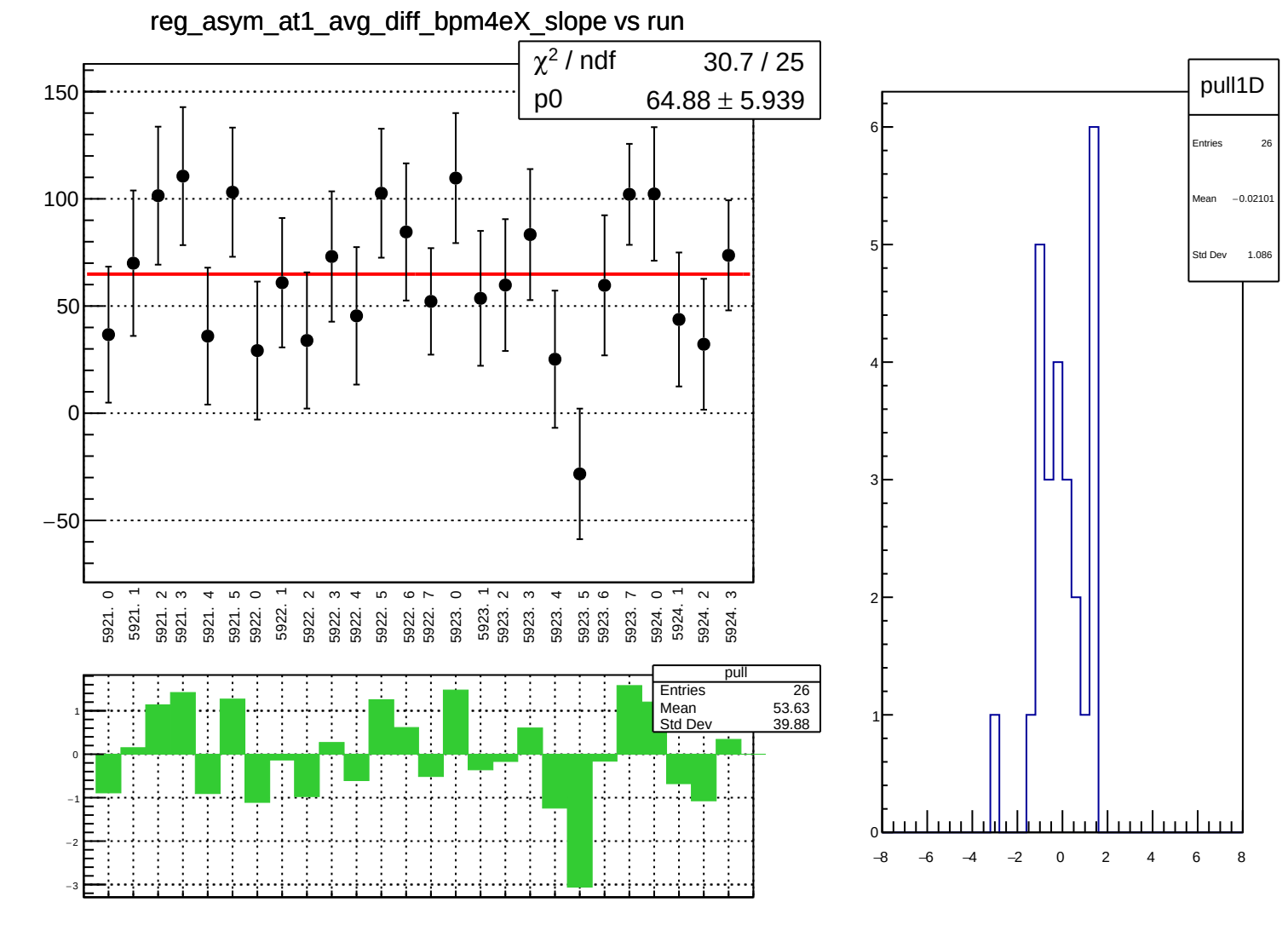

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.726 / 25
p0 106.6 ± 0.6081
116
114
112
110
108
106
104
102
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 173.6
Std Dev 159.9
1.5
1
0.5
0
−0.5
−1

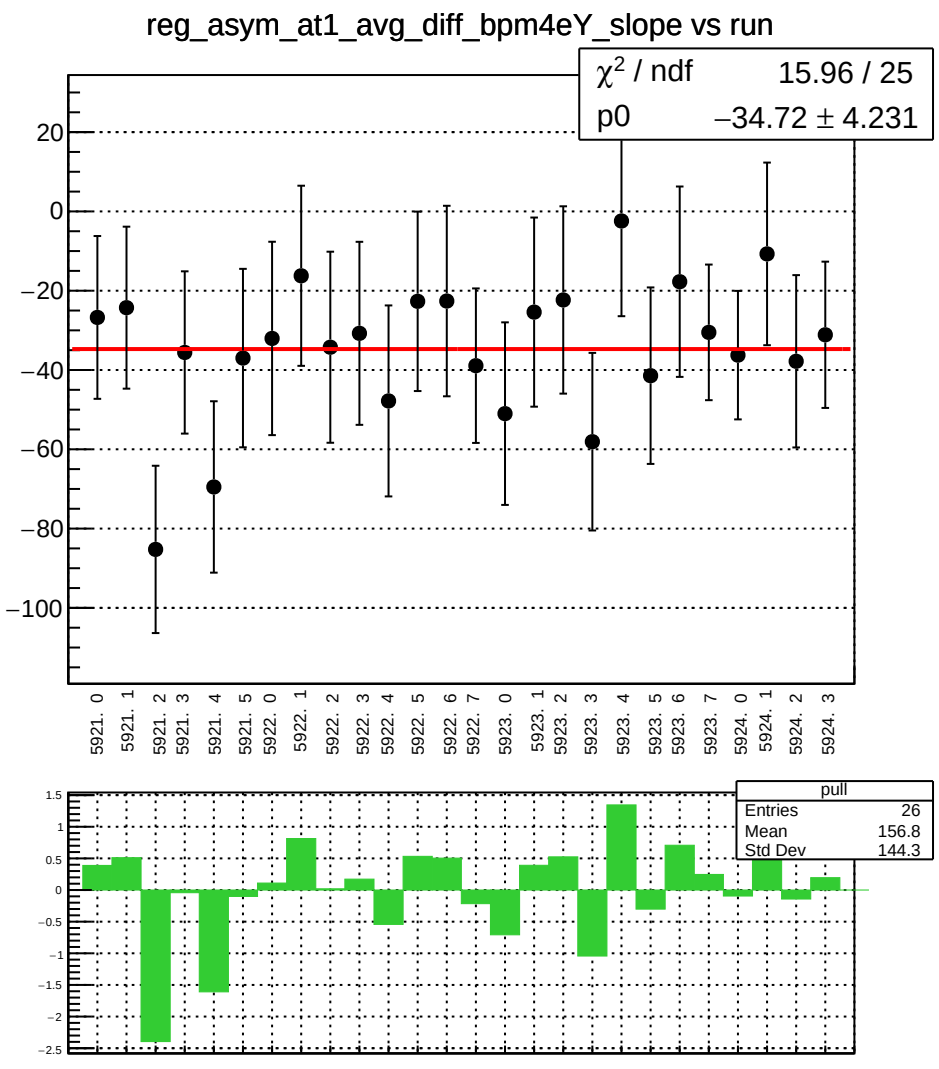

pull1D
Entries 26
Mean 0.01674
Std Dev 0.6114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

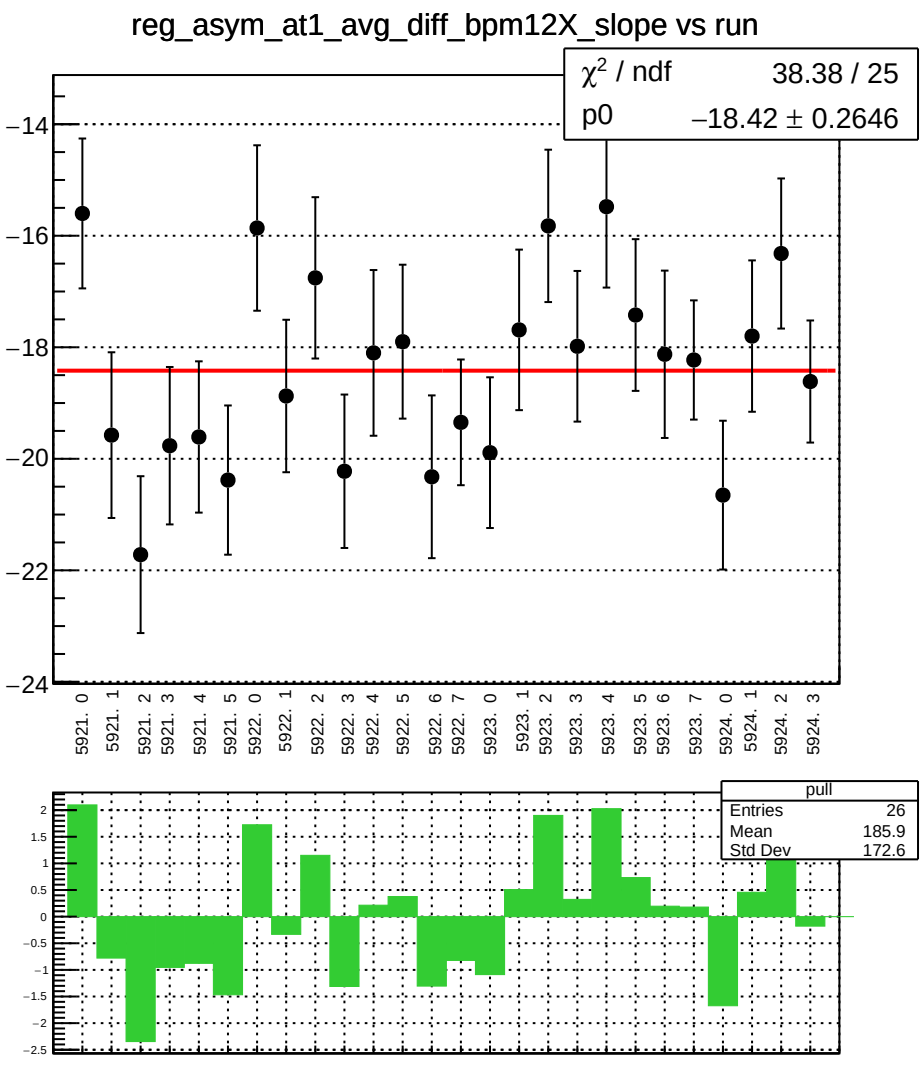

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 26.8 / 25
p0 −54.66 ± 4.718
40
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 60.3
Std Dev 46.08
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

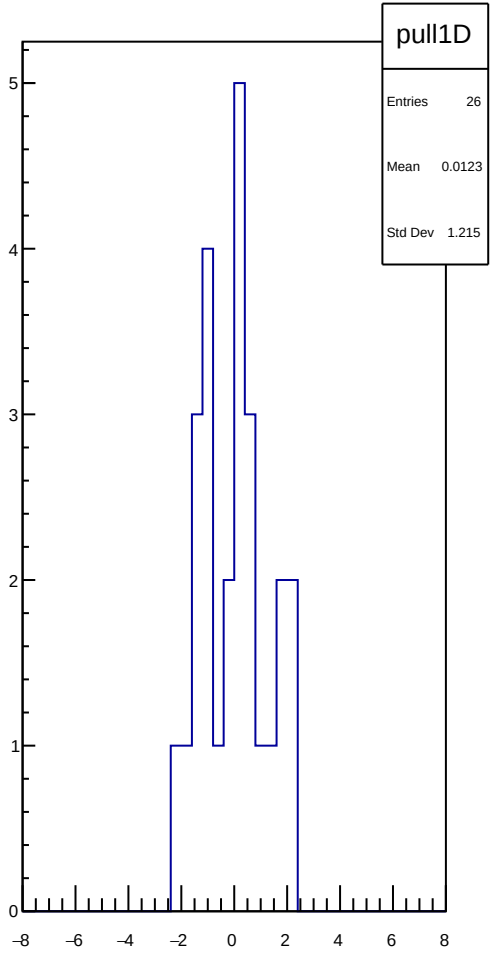

pull1D
Entries 26
Mean 0.01823
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

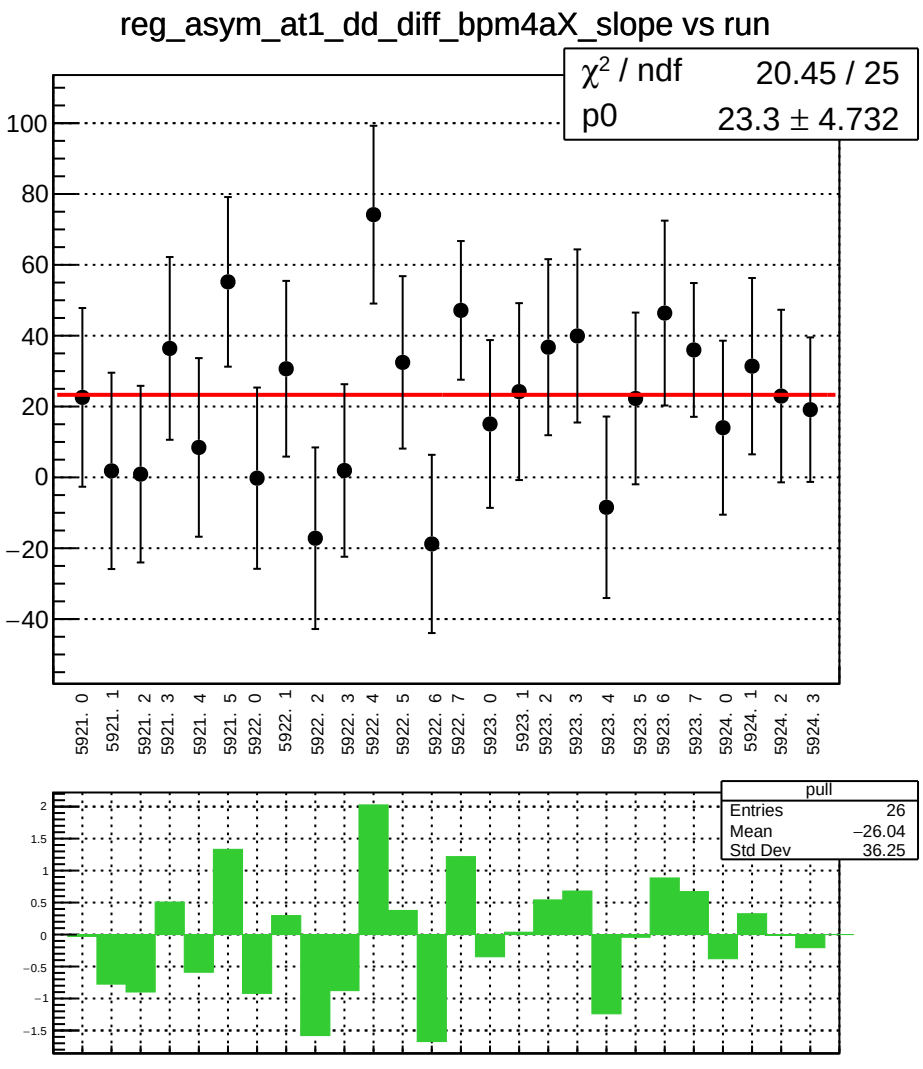

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.95 / 25
p0 23.96 ± 3.851
100
80
60
40
20
0
−20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 149.7
Std Dev 136.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01105
Std Dev 0.7833
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

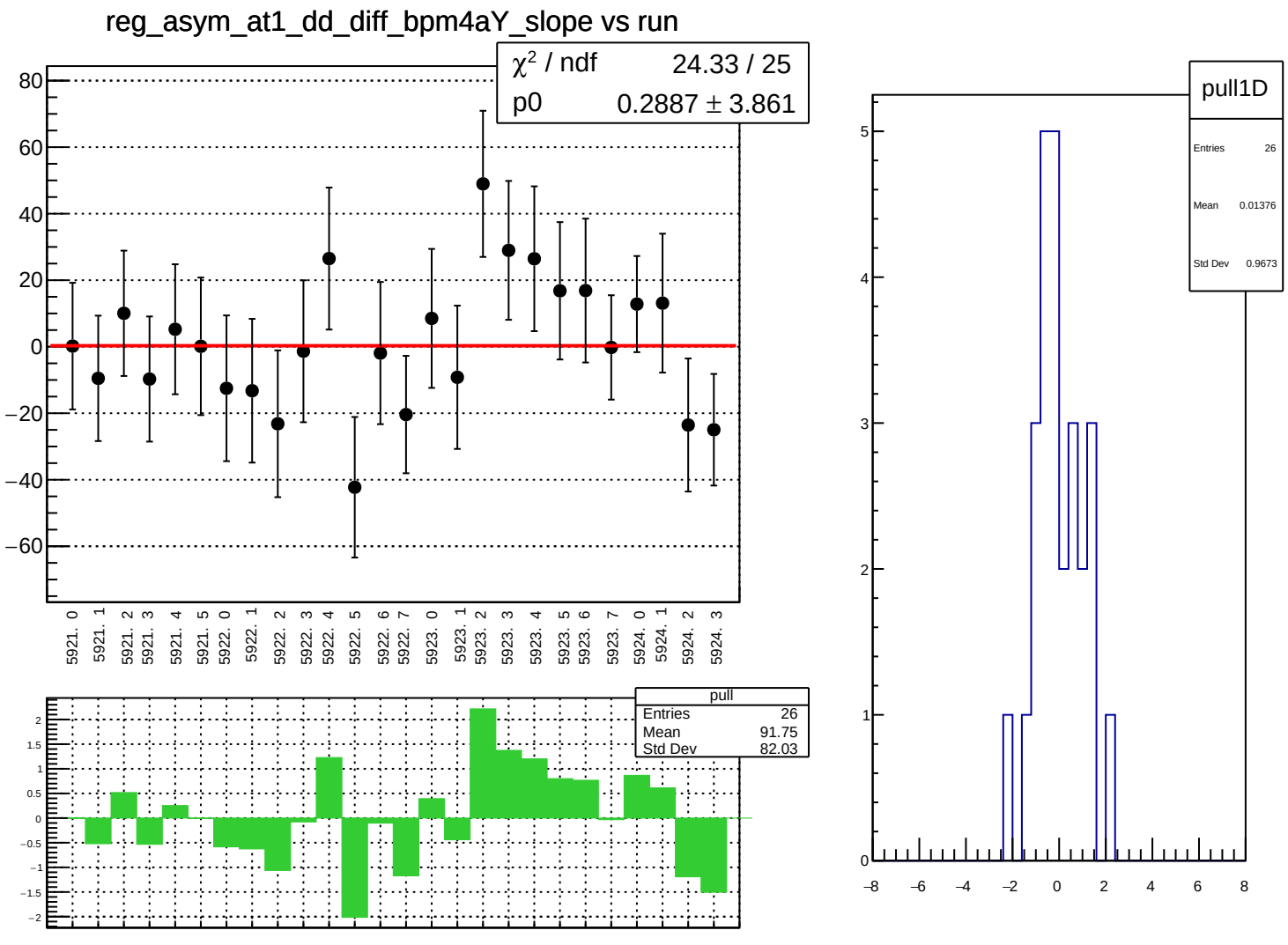

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.7 / 25
p0 64.88 ± 5.939
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 53.63
Std Dev 39.88
1
0
−1
−2
−3
pull1D
Entries 26
Mean −0.02101
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

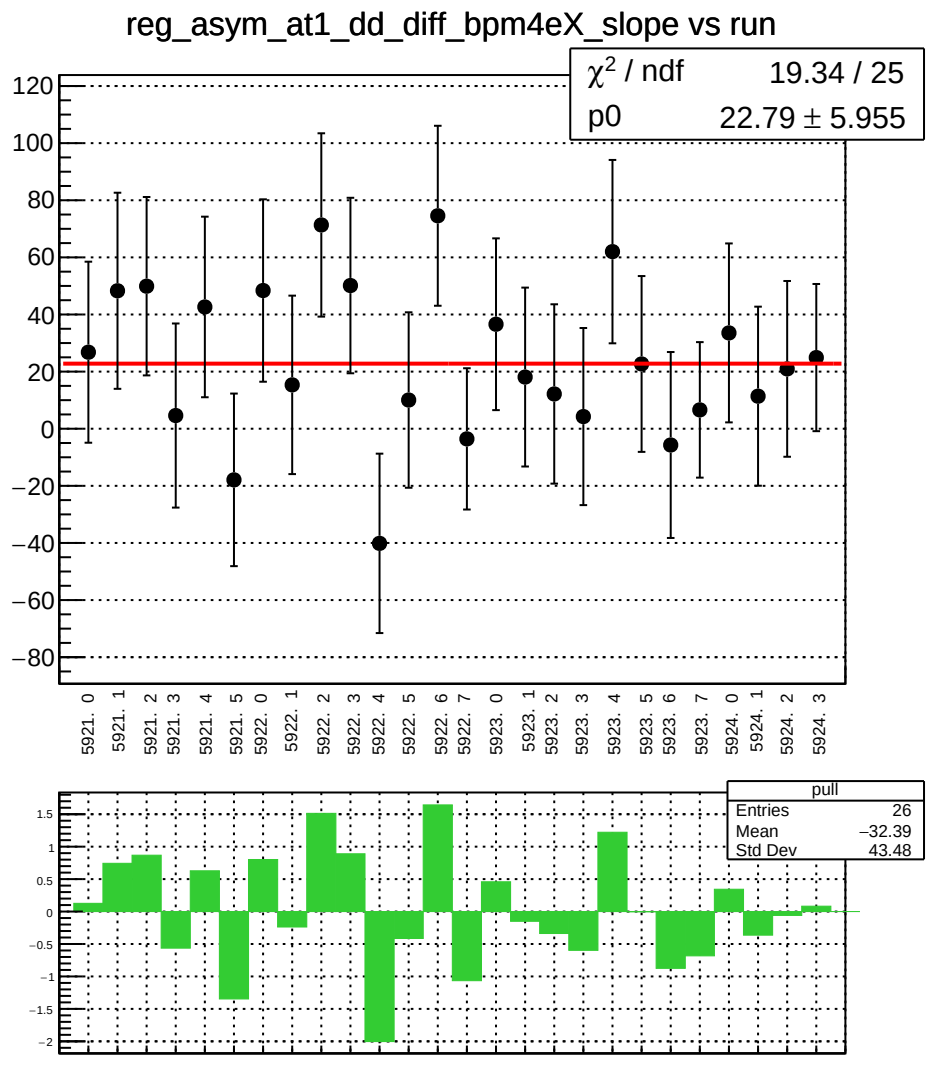

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.96 / 25
p0 −34.72 ± 4.231
20
0
−20
−40
−60
−80
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 156.8
Std Dev 144.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean 0.01185
Std Dev 0.7835
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

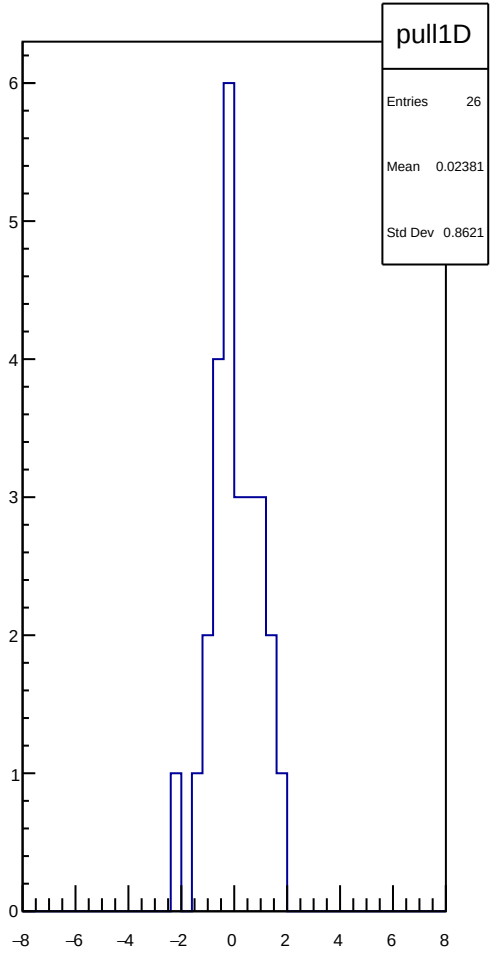

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 38.38 / 25
p0 −18.42 ± 0.2646
−14
−16
−18
−20
−22
−24
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 185.9
Std Dev 172.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

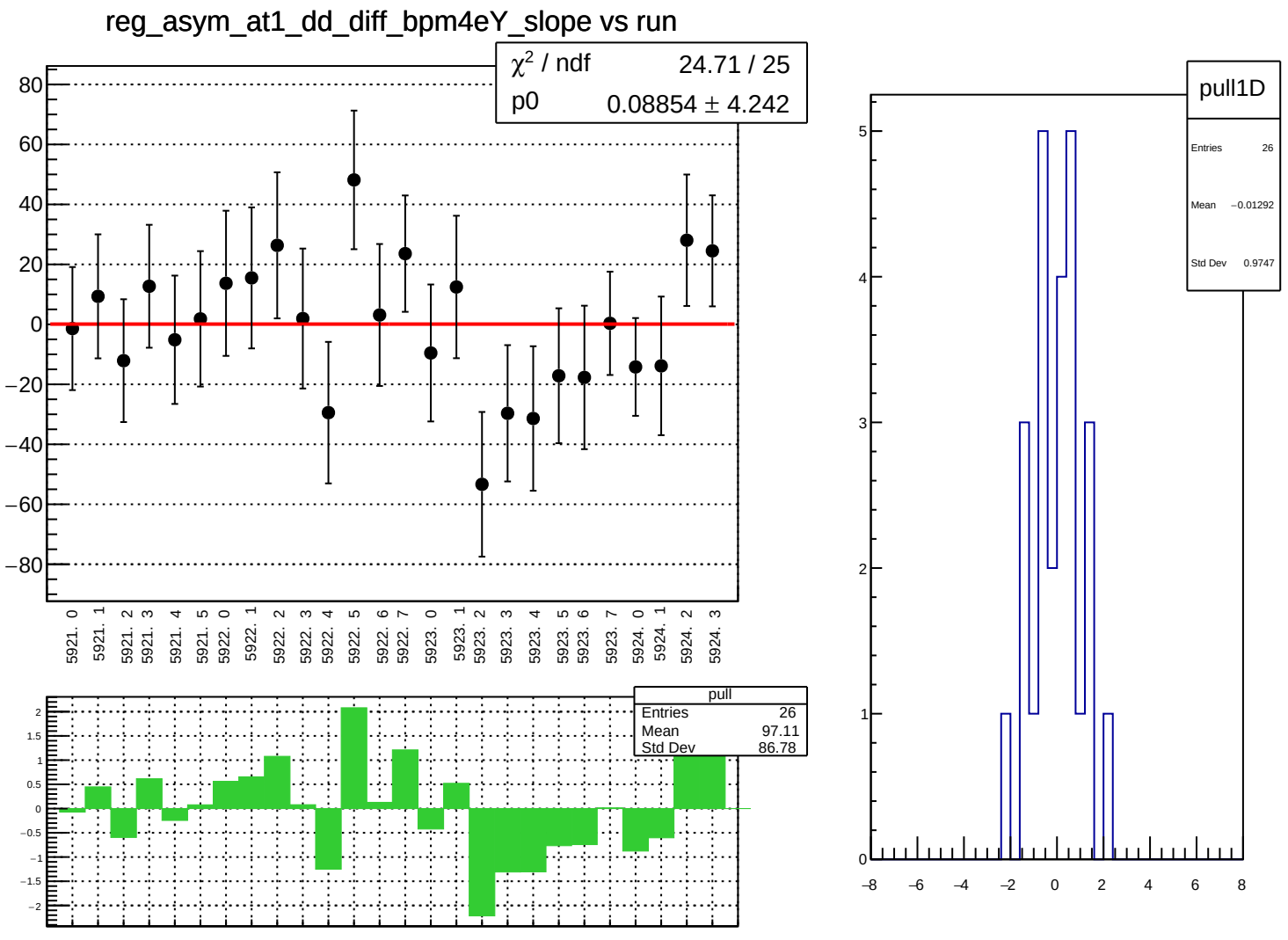

pull1D
Entries 26
Mean 0.0123
Std Dev 1.215
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

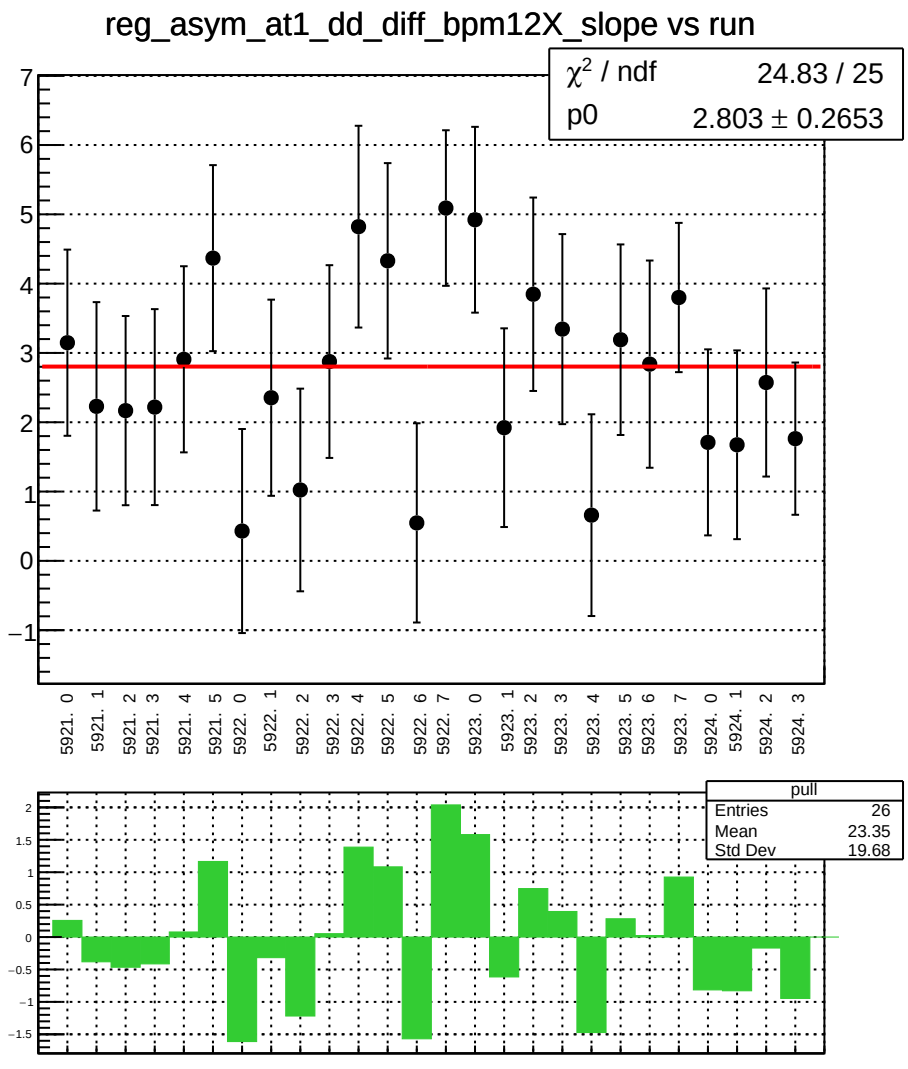

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.45 / 25
p0 23.3 ± 4.732
100
80
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −26.04
Std Dev 36.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.02571
Std Dev 0.8866
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

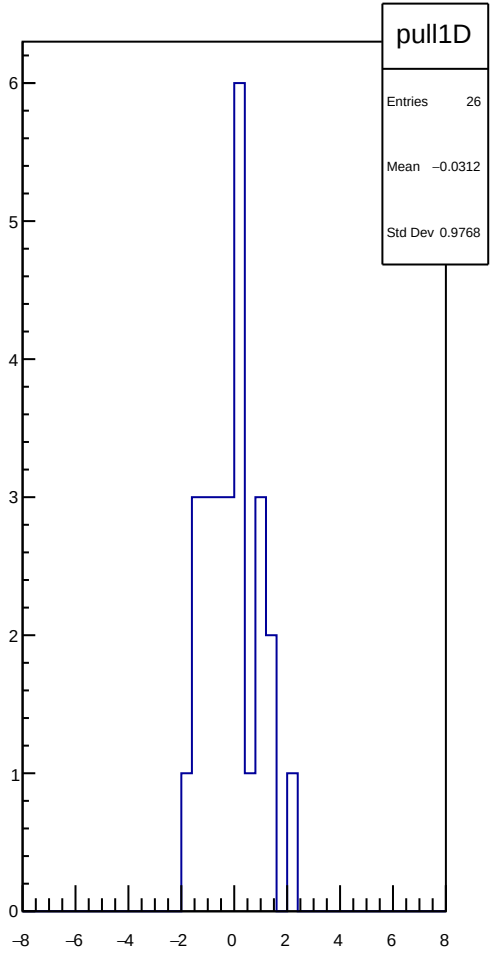

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.33 / 25
p0 0.2887 ± 3.861
80
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 91.75
Std Dev 82.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.01376
Std Dev 0.9673
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

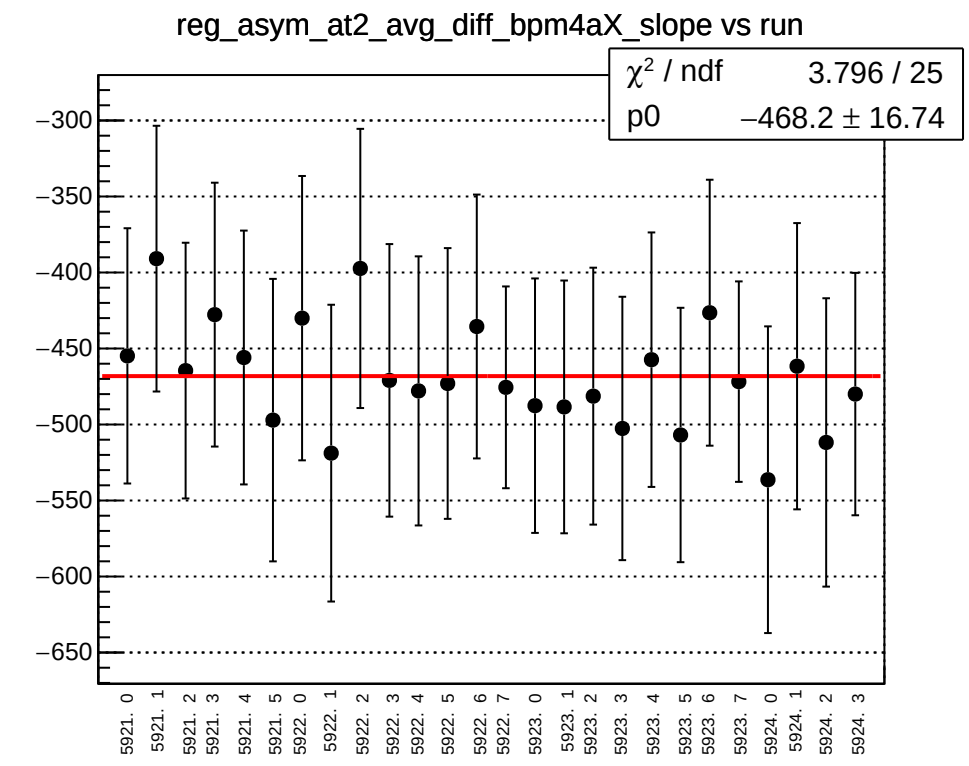

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.34 / 25
p0 22.79 ± 5.955
pull
Entries 26
Mean −32.39
Std Dev 43.48

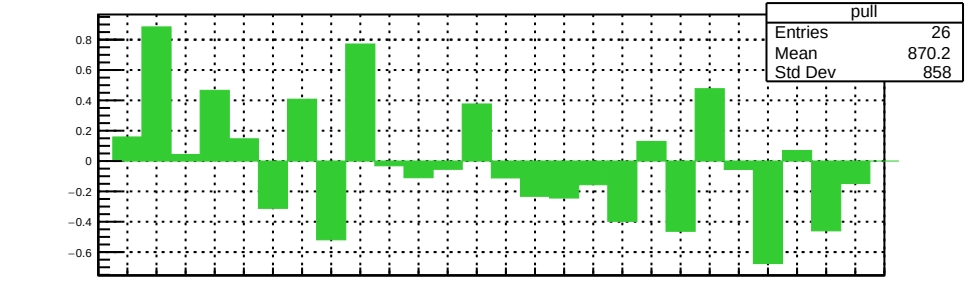

pull1D
Entries 26
Mean 0.02381
Std Dev 0.8621

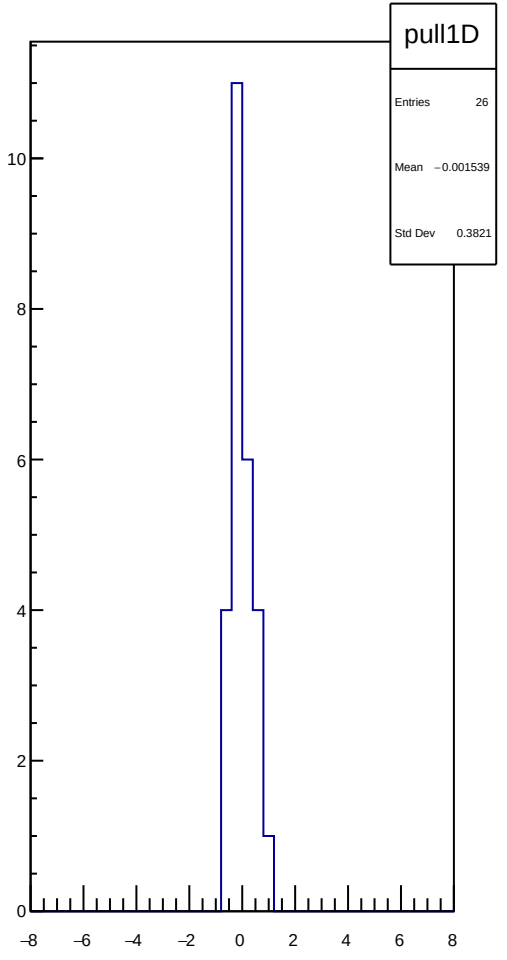

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.71 / 25
p0 0.08854 ± 4.242
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 97.11
Std Dev 86.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01292
Std Dev 0.9747
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

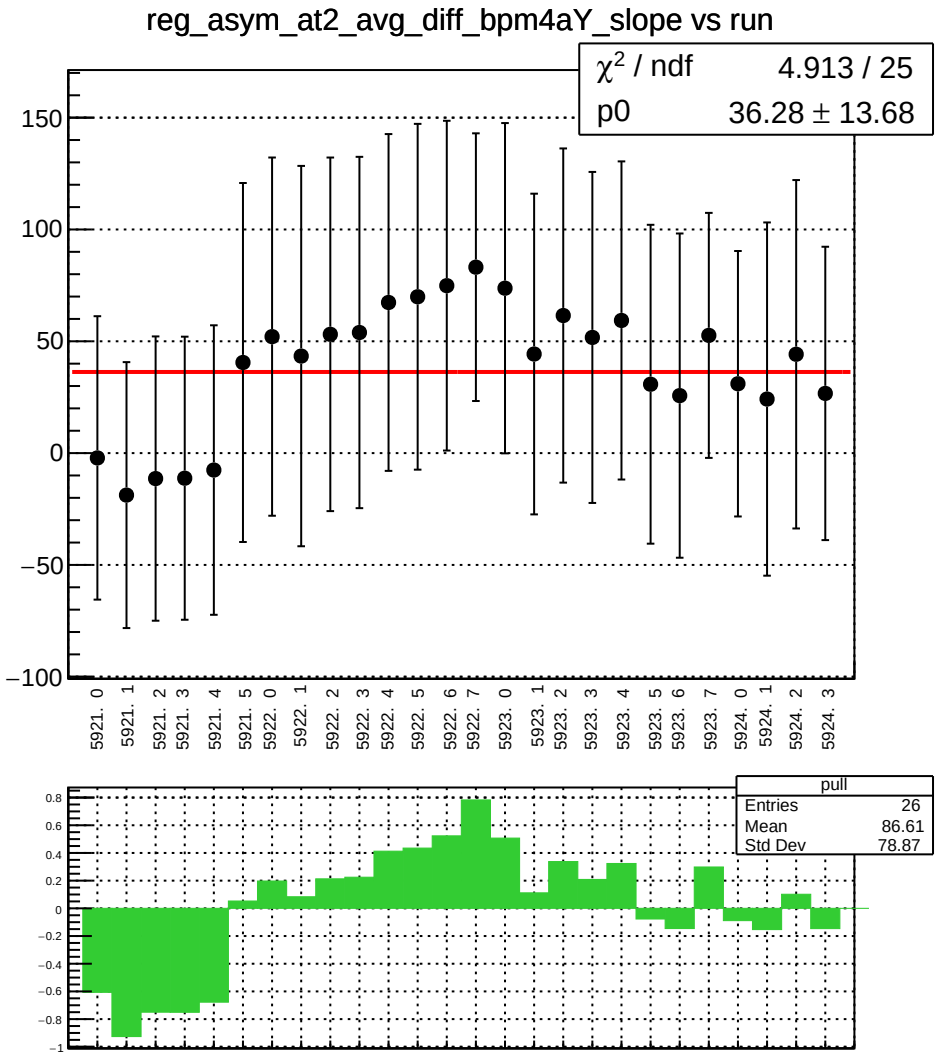

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 24.83 / 25
p0 2.803 ± 0.2653
pull
Entries 26
Mean 23.35
Std Dev 19.68

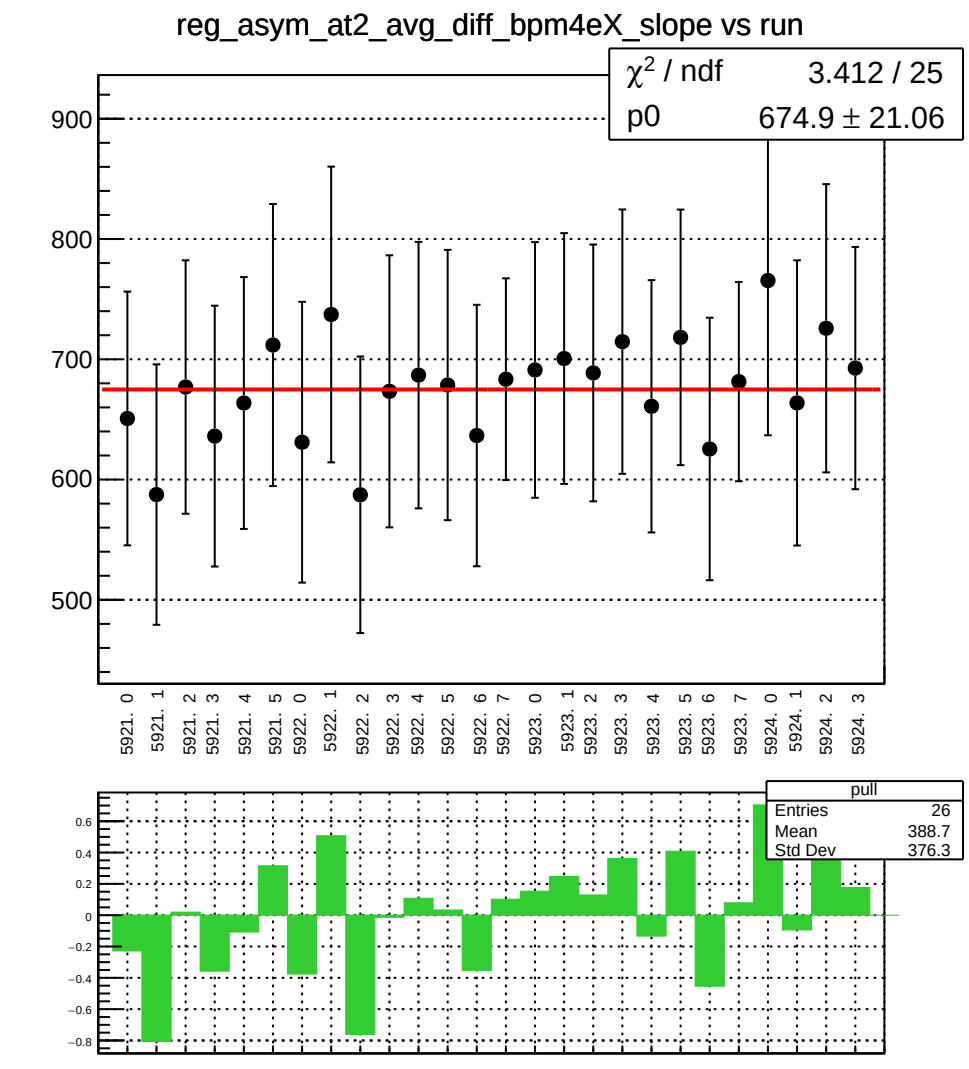

pull1D
Entries 26
Mean −0.0312
Std Dev 0.9768

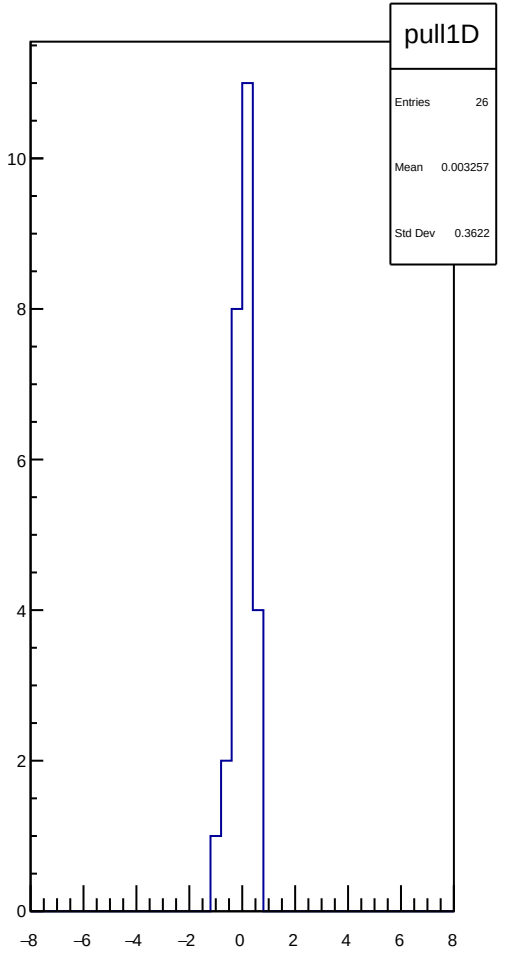

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.796 / 25
p0 −468.2 ± 16.74
−300
−350
−400
−450
−500
−550
−600
−650
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3

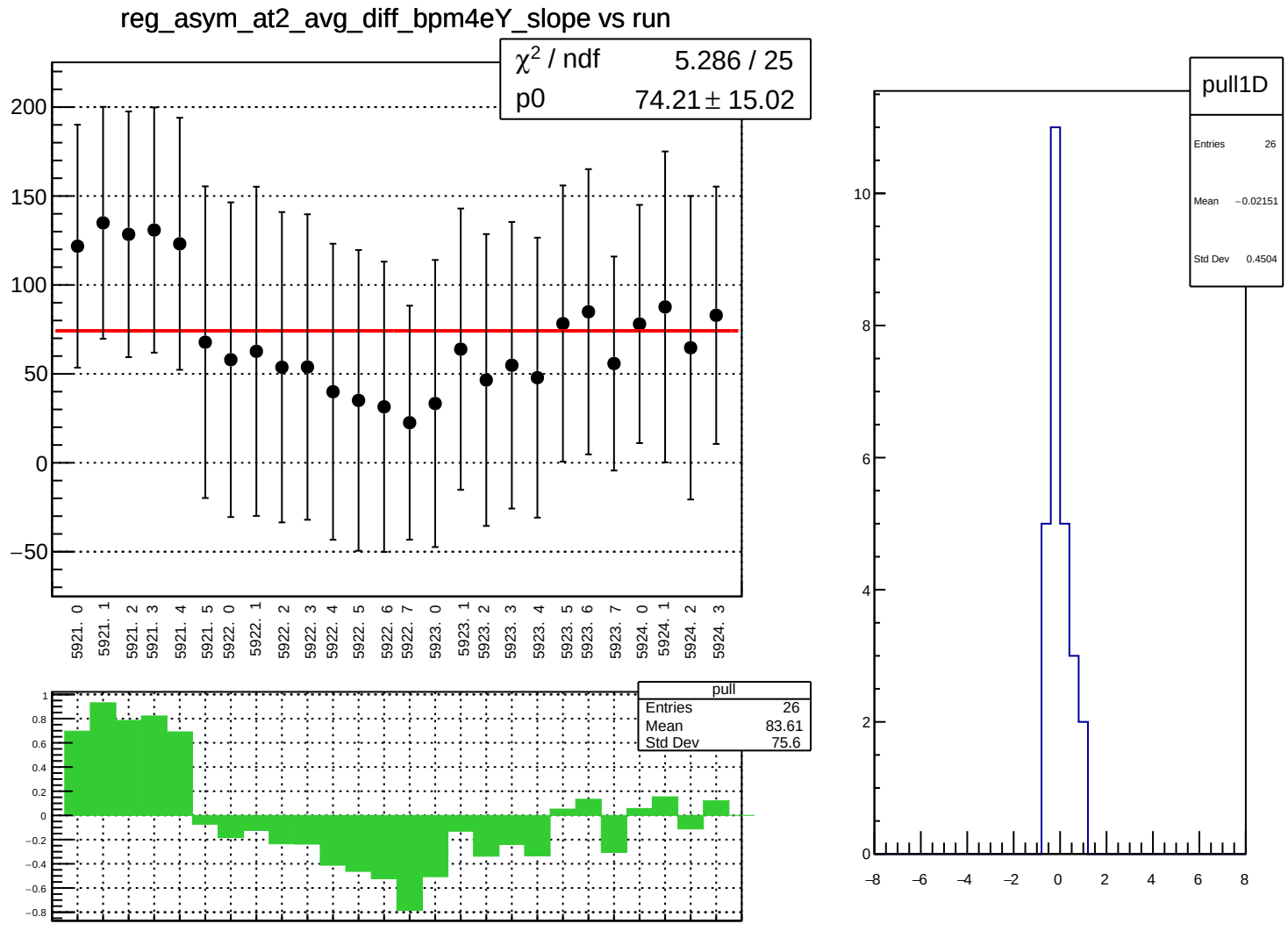

pull
Entries 26
Mean 870.2
Std Dev 858
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

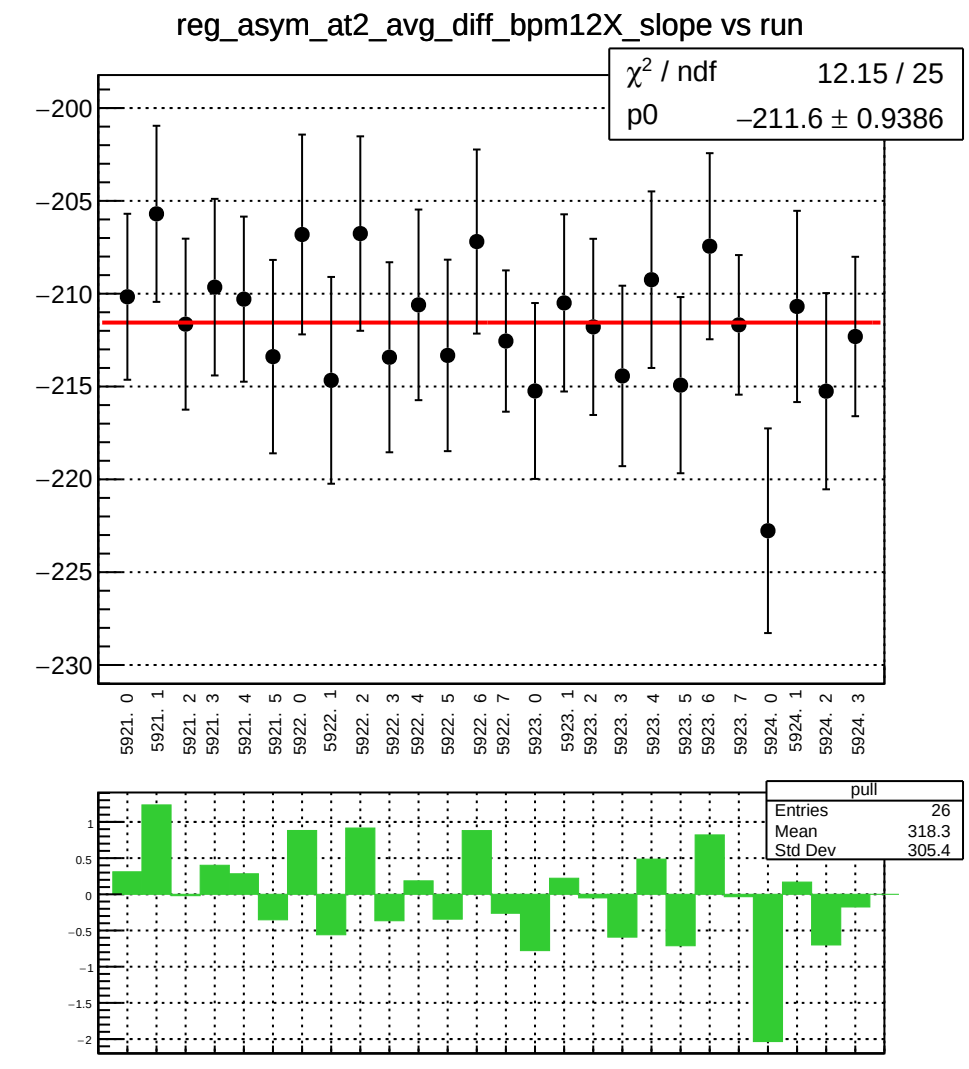

pull1D
Entries 26
Mean −0.001539
Std Dev 0.3821
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

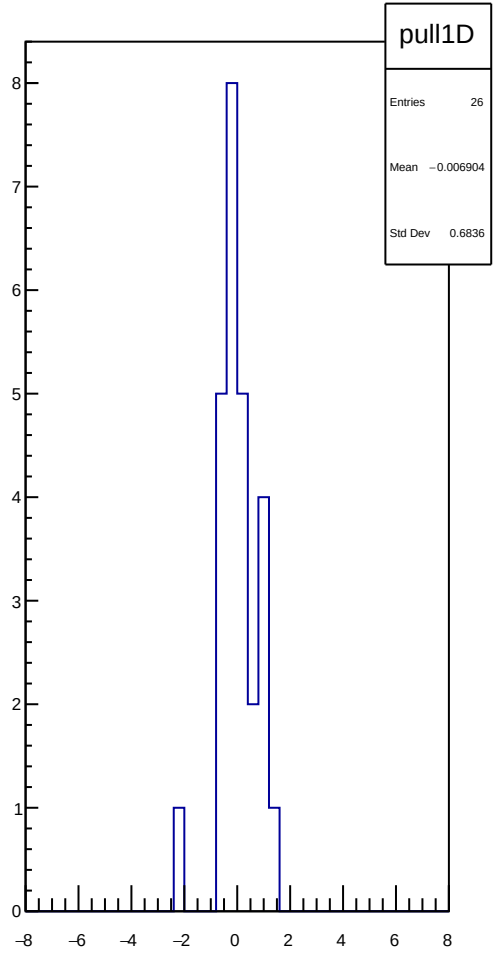

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.913 / 25
p0 36.28 ± 13.68
150
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 86.61
Std Dev 78.87
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.01898
Std Dev 0.4343
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

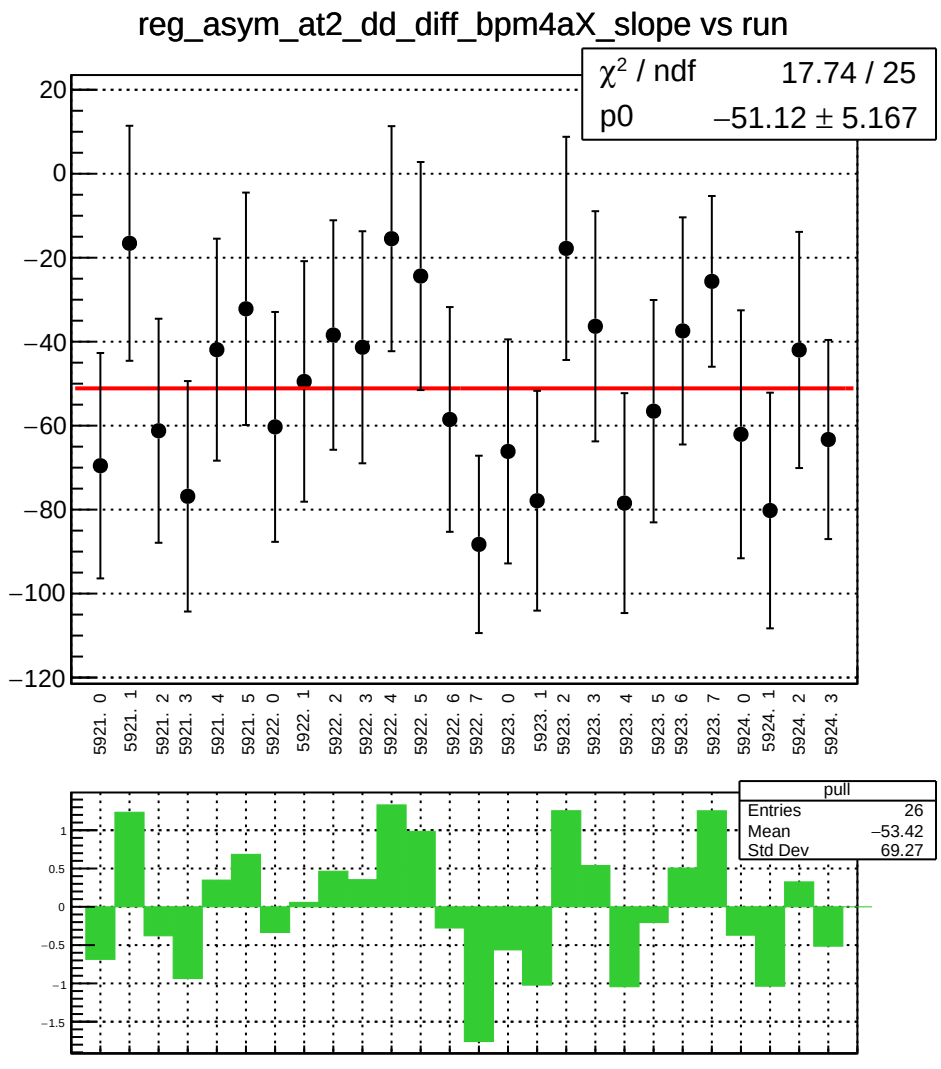

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.412 / 25
p0 674.9 ± 21.06
900
800
700
600
500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 388.7
Std Dev 376.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

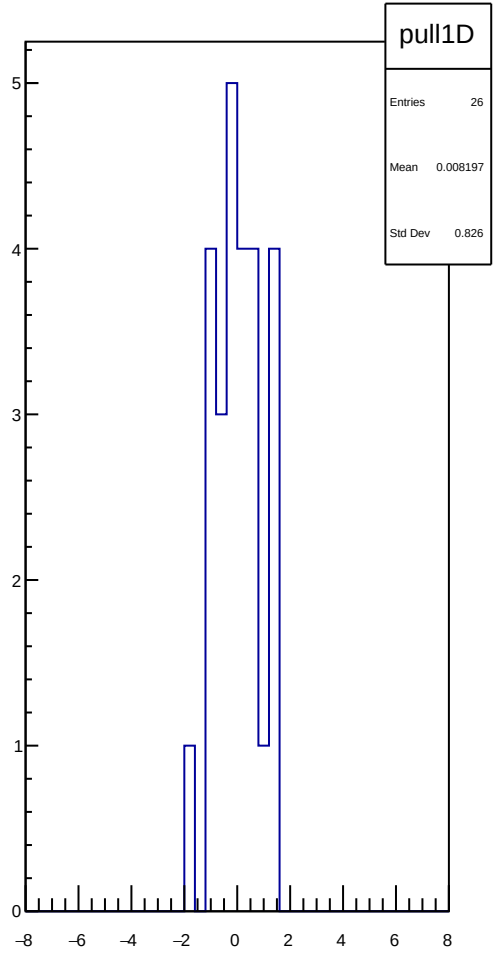

pull1D
Entries 26
Mean 0.003257
Std Dev 0.3622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

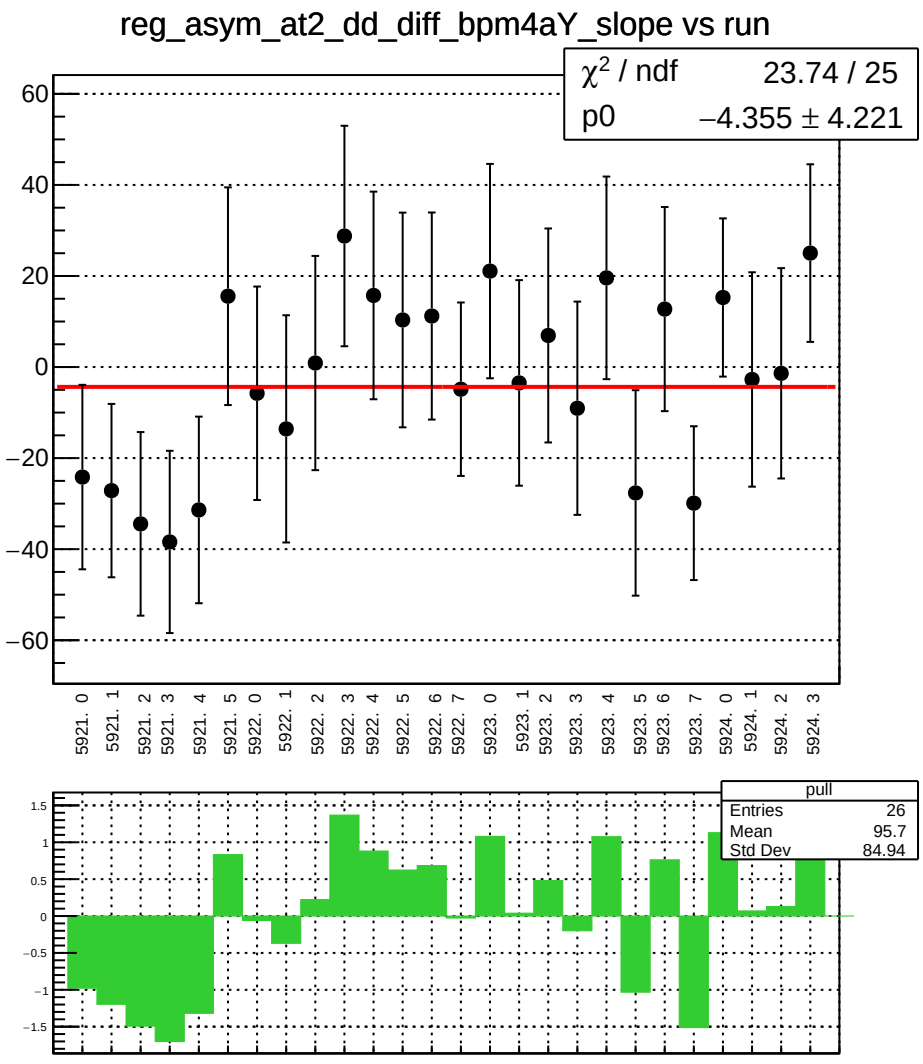

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.286 / 25
p0 74.21 ± 15.02
200
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 83.61
Std Dev 75.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.02151
Std Dev 0.4504
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

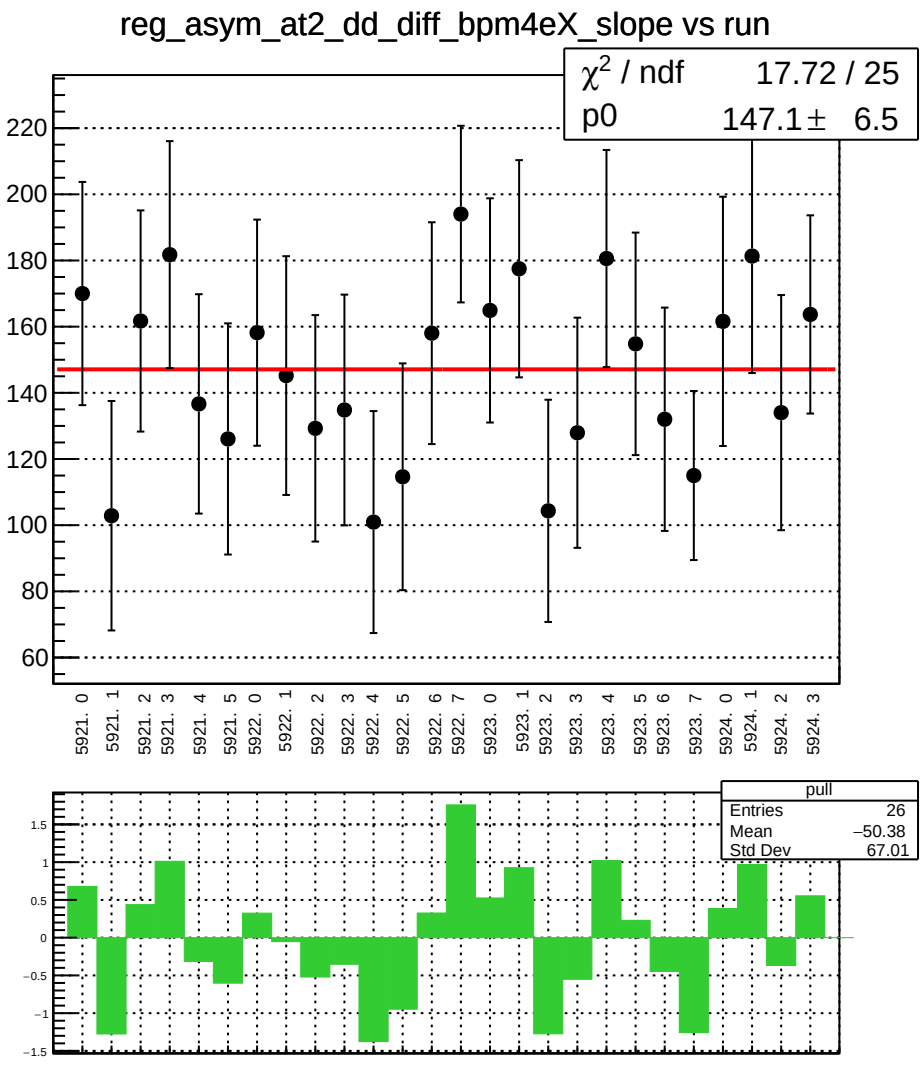

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.15 / 25
p0 −211.6 ± 0.9386
−200
−205
−210
−215
−220
−225
−230
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 318.3
Std Dev 305.4
1
0.5
0
−0.5
−1
−1.5
−2

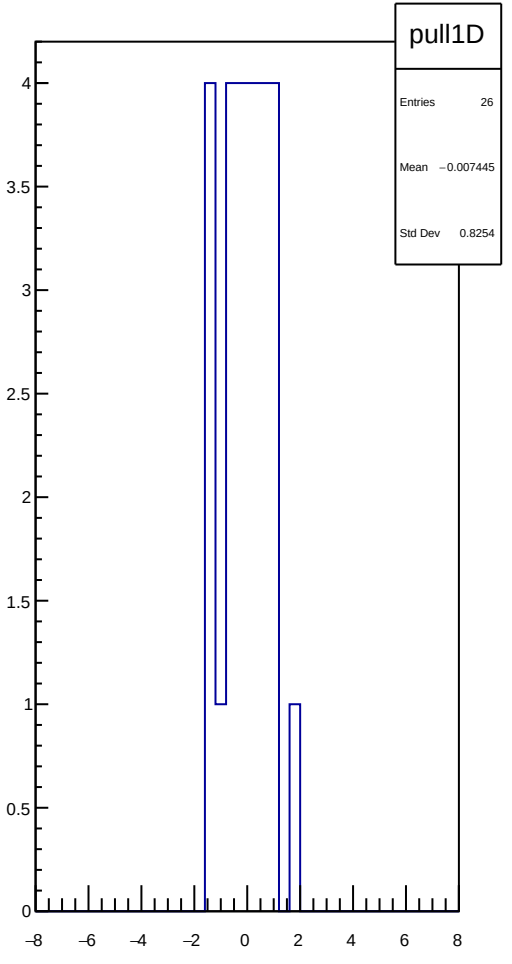

pull1D
Entries 26
Mean −0.006904
Std Dev 0.6836
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

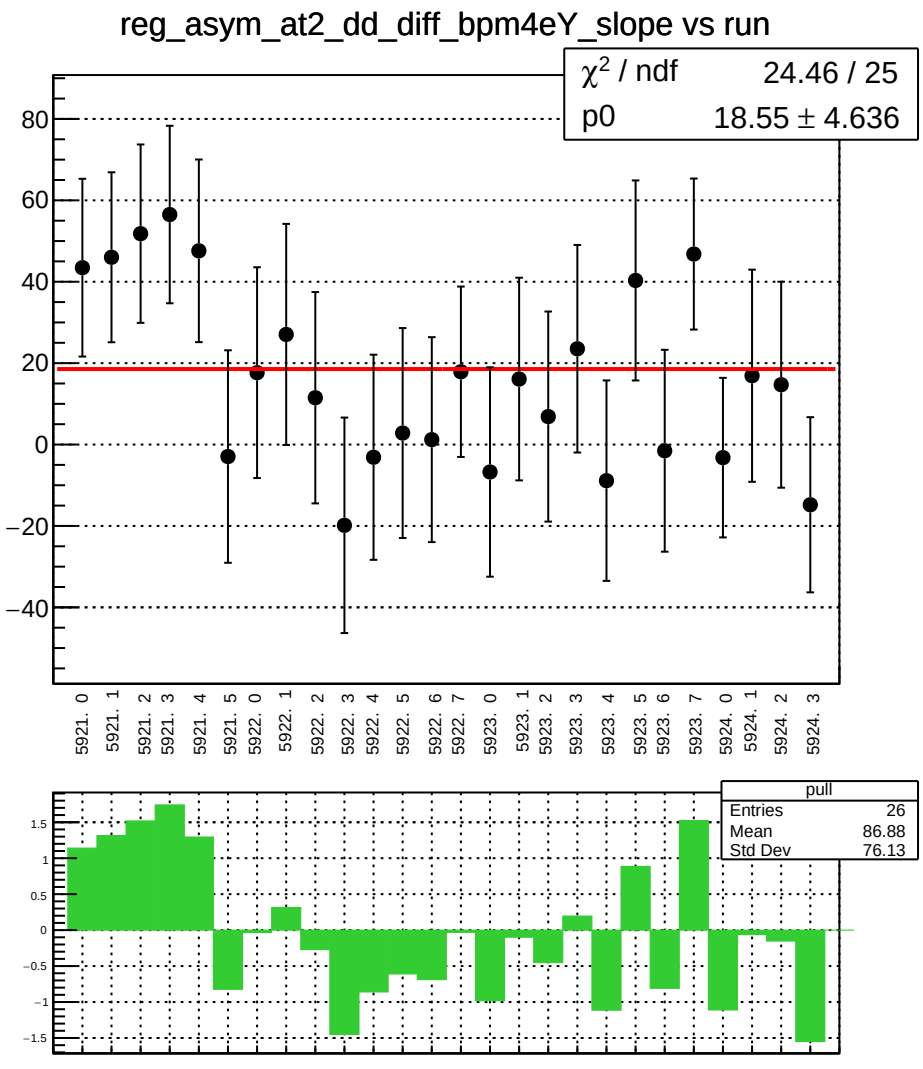

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.74 / 25
p0 −51.12 ± 5.167
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −53.42
Std Dev 69.27
1
0.5
0
−0.5
−1
−1.5

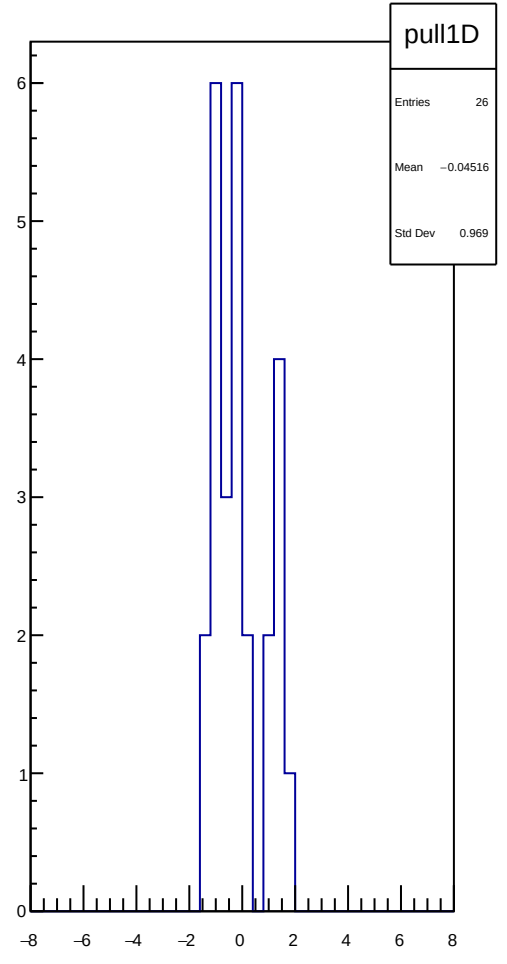

pull1D
Entries 26
Mean 0.008197
Std Dev 0.826
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

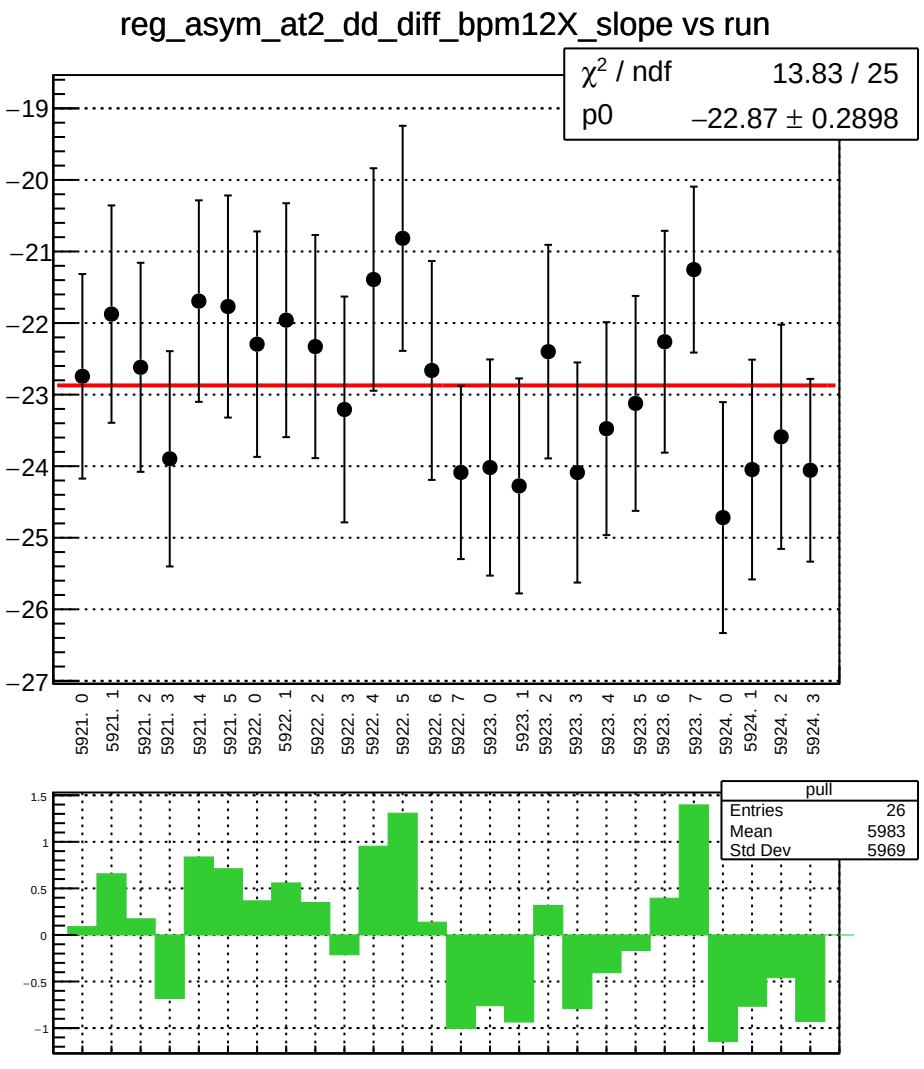

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.74 / 25
p0 −4.355 ± 4.221
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 95.7
Std Dev 84.94
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.03826
Std Dev 0.9547
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

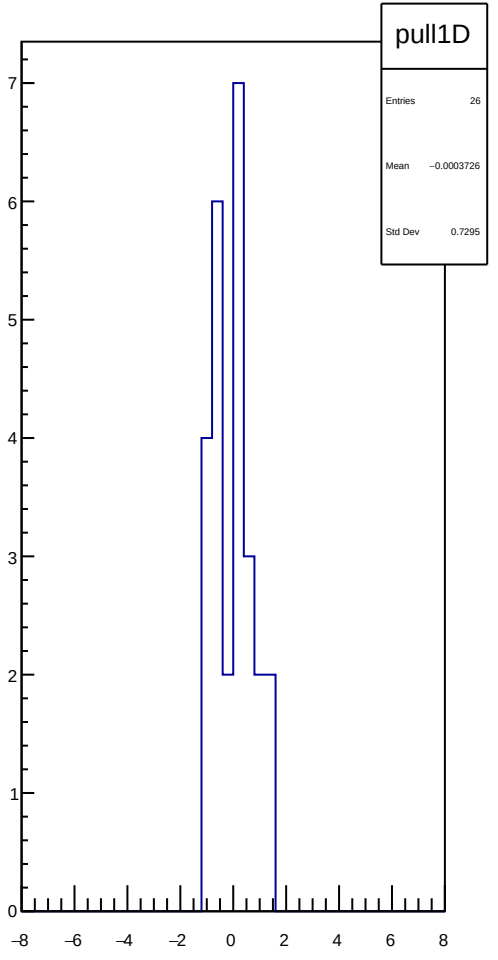

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.72 / 25
p0 147.1 ± 6.5
220
200
180
160
140
120
100
80
60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −50.38
Std Dev 67.01
1.5
1
0.5
0
−0.5
−1
−1.5

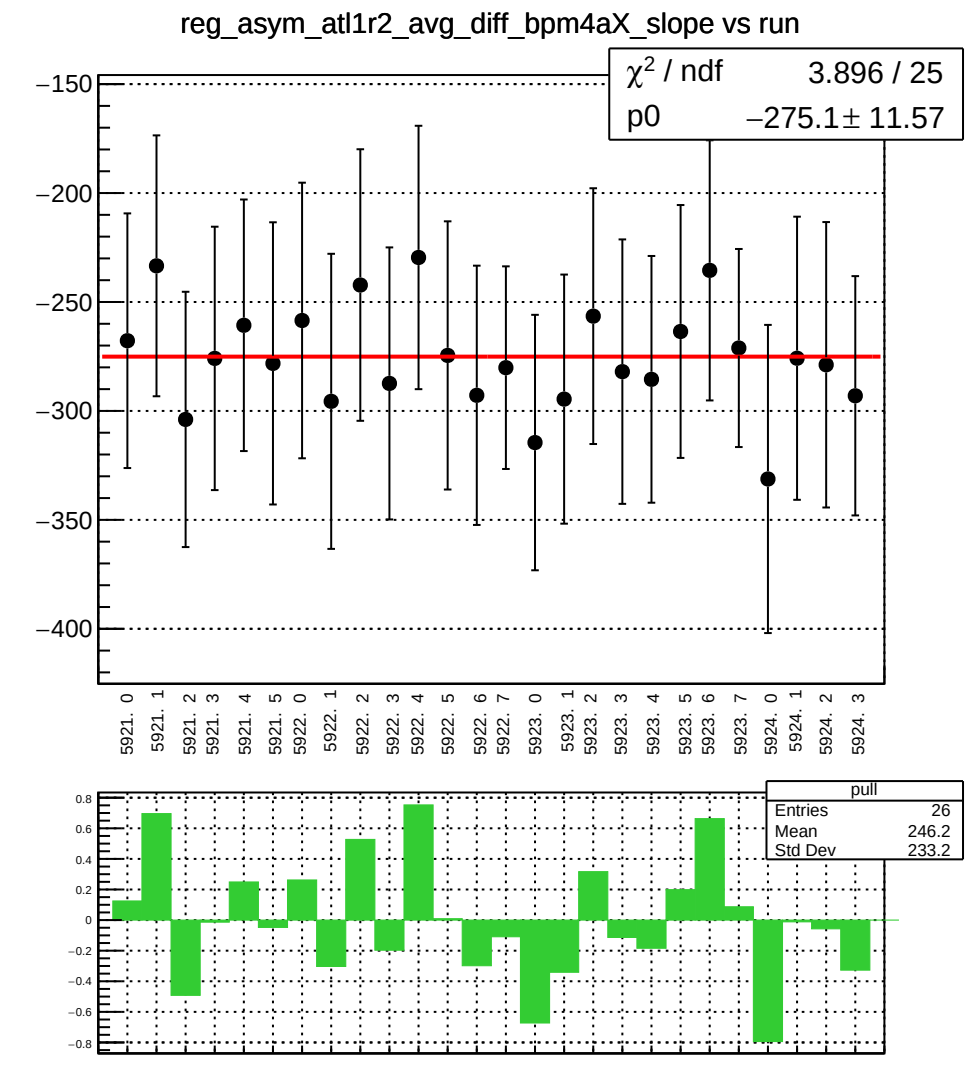

pull1D
Entries 26
Mean −0.007445
Std Dev 0.8254
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

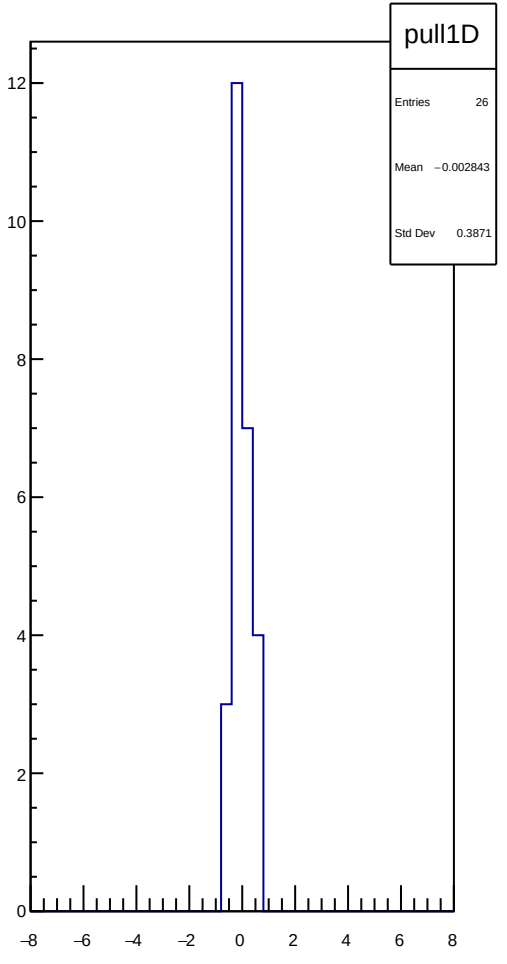

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.46 / 25
p0 18.55 ± 4.636
80
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 86.88
Std Dev 76.13
1.5
1
0.5
0
−0.5
−1
−1.5

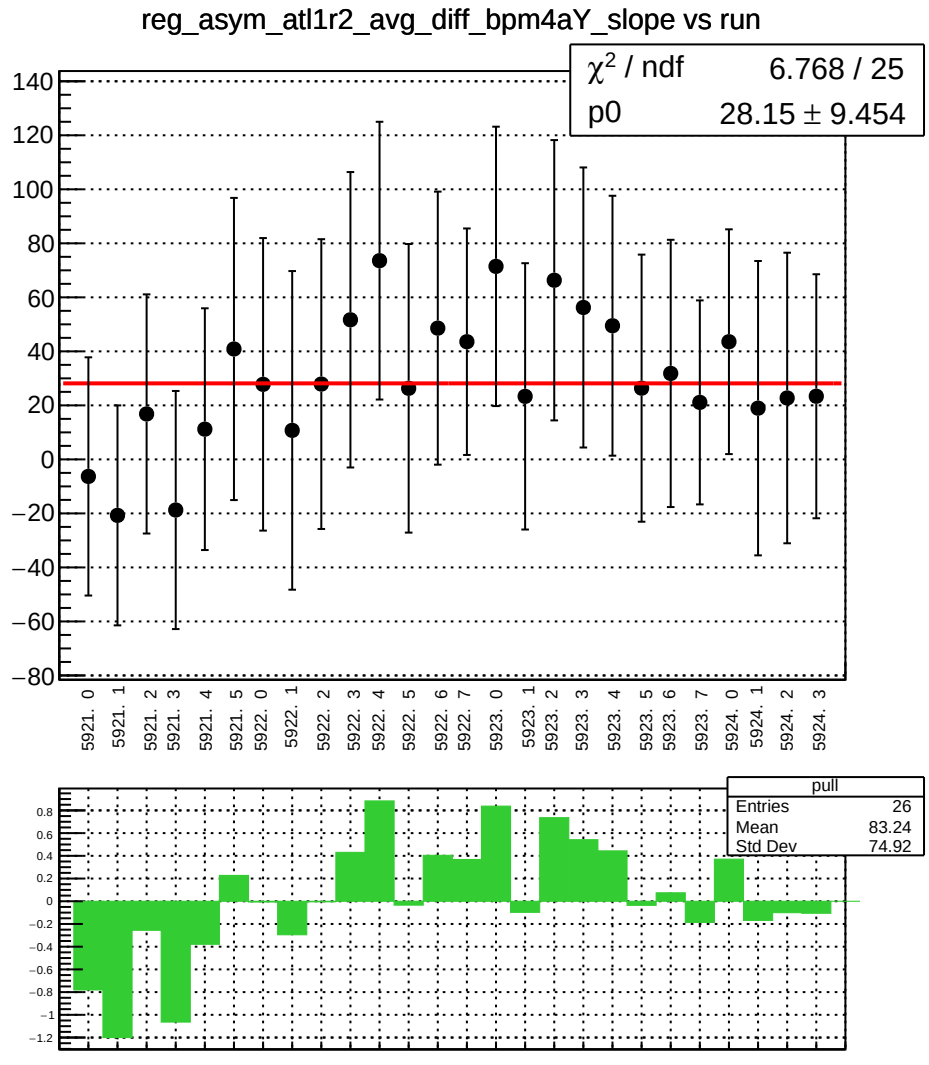

pull1D
Entries 26
Mean −0.04516
Std Dev 0.969
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

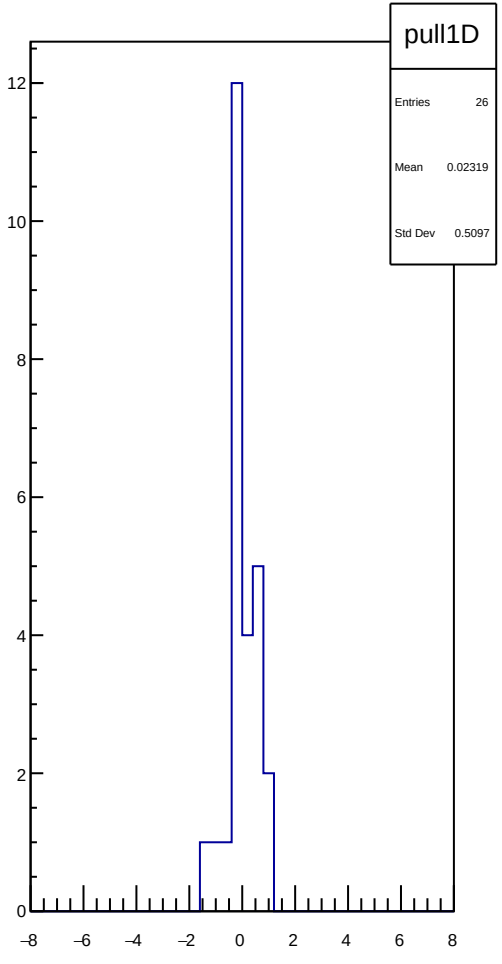

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.83 / 25
p0 −22.87 ± 0.2898
−19
−20
−21
−22
−23
−24
−25
−26
−27
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5983
Std Dev 5969
1.5
1
0.5
0
−0.5
−1

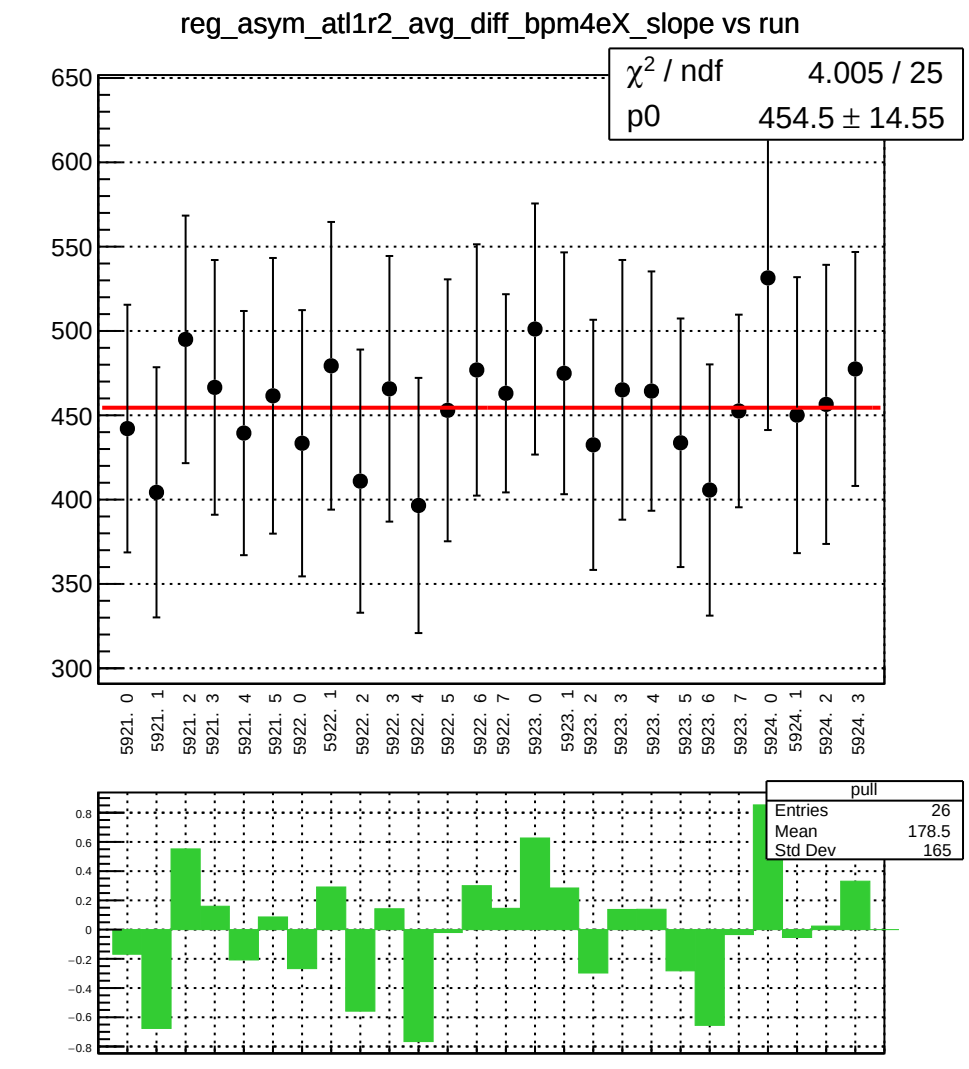

pull1D
Entries 26
Mean −0.0003726
Std Dev 0.7295
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

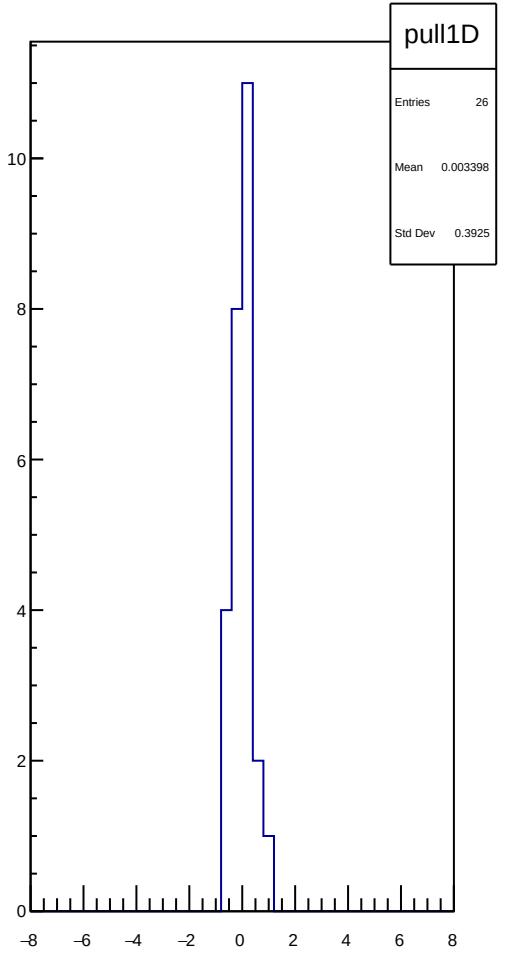

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.896 / 25
p0 −275.1± 11.57
−150
−200
−250
−300
−350
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 246.2
Std Dev 233.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

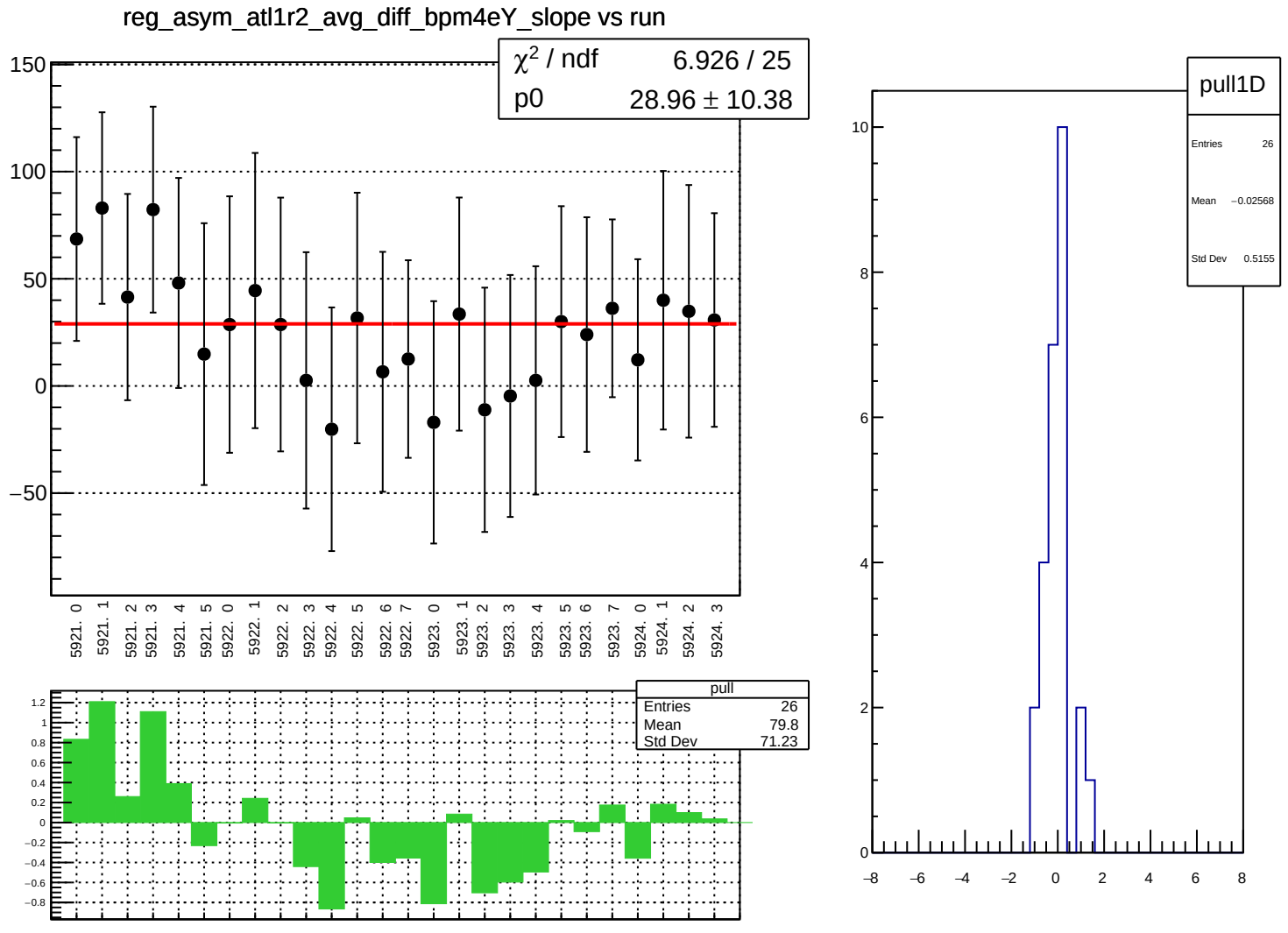

pull1D
Entries 26
Mean −0.002843
Std Dev 0.3871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

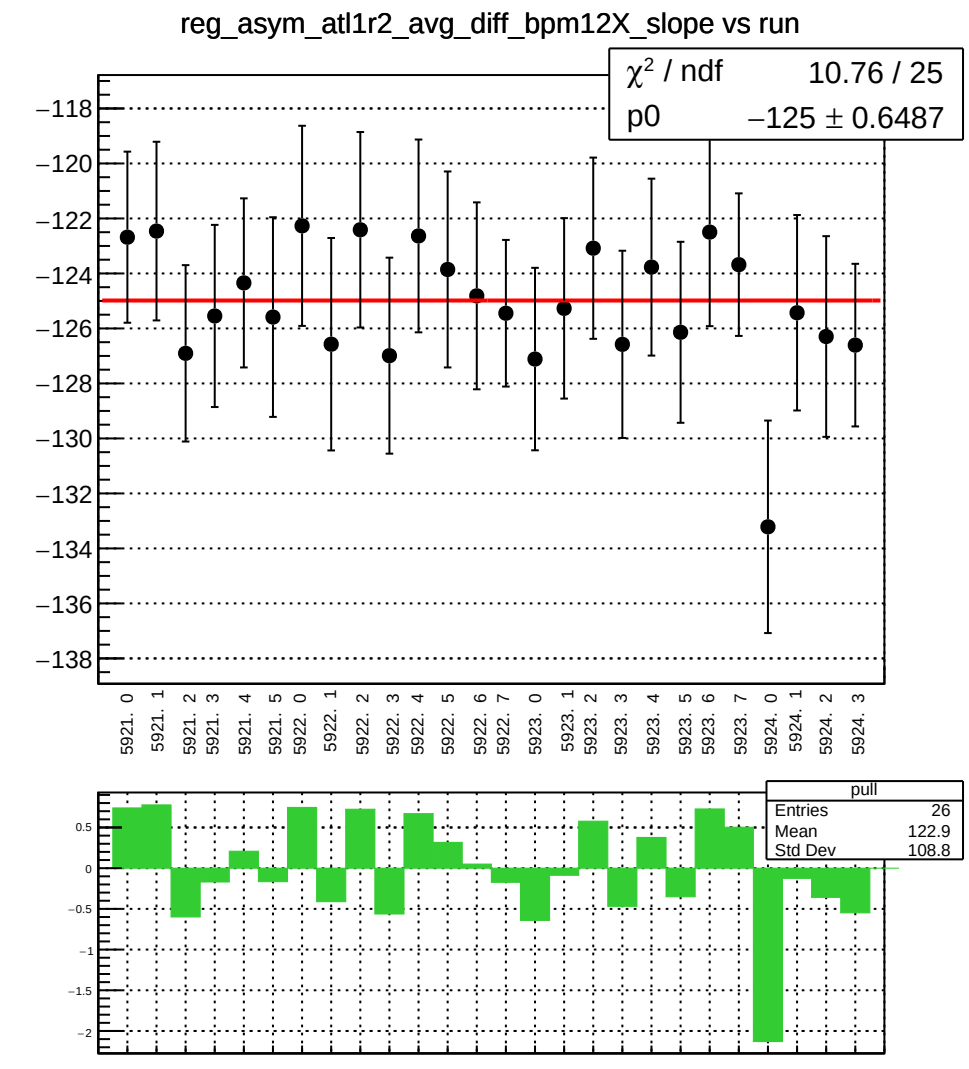

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.768 / 25
p0 28.15 ± 9.454
pull
Entries 26
Mean 83.24
Std Dev 74.92

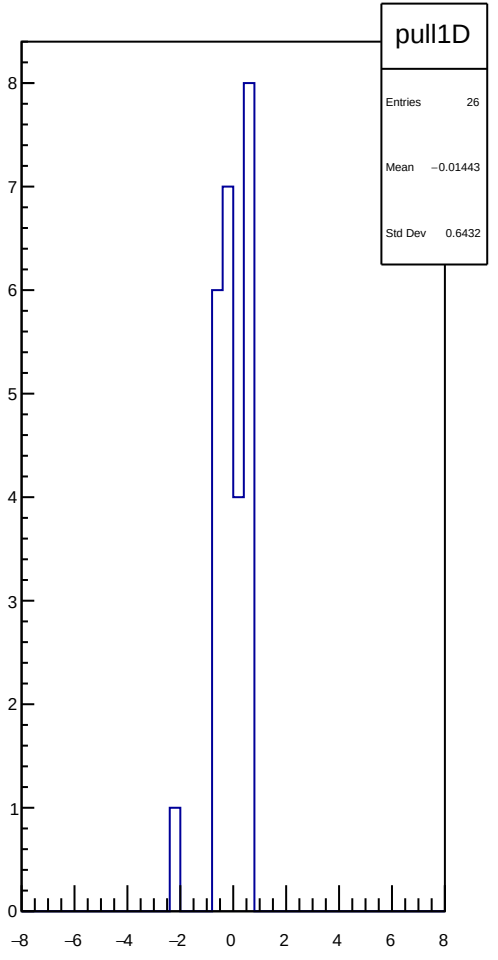

pull1D
Entries 26
Mean 0.02319
Std Dev 0.5097

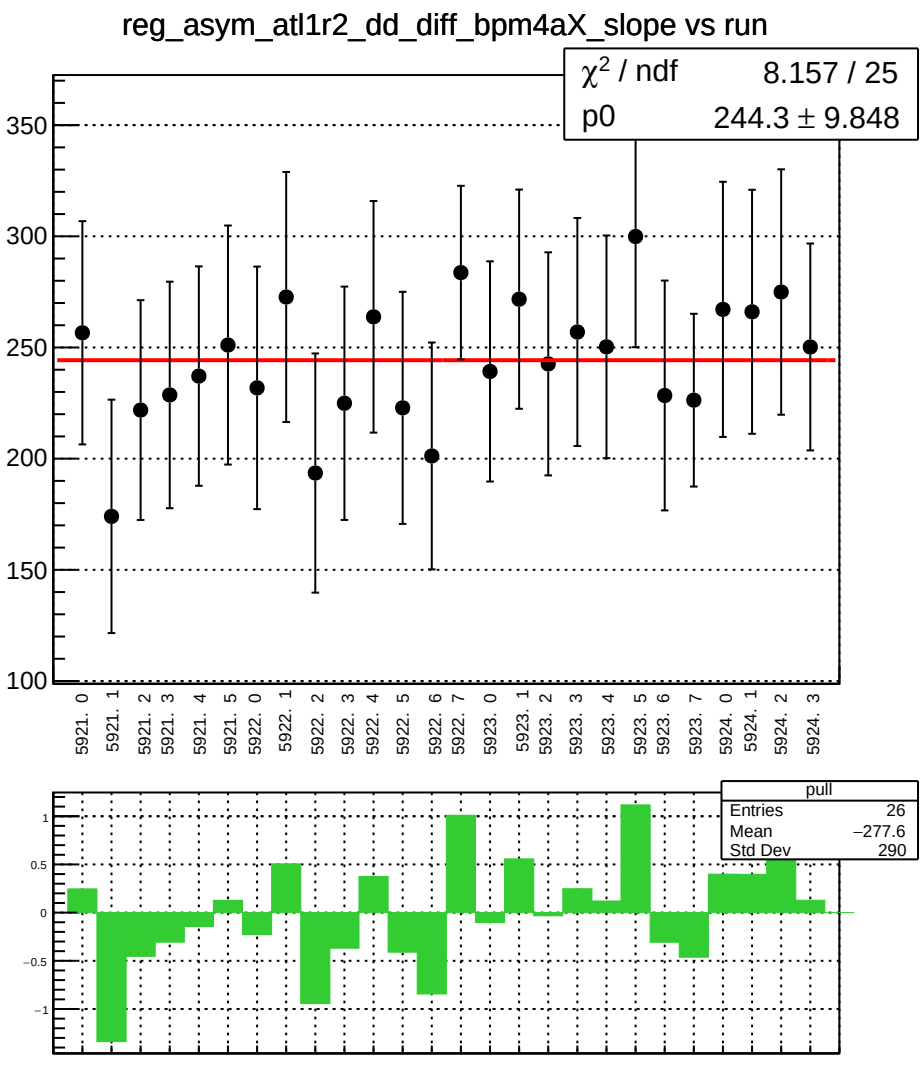

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.005 / 25
p0 454.5 ± 14.55
650
600
550
500
450
400
350
300
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 178.5
Std Dev 165
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

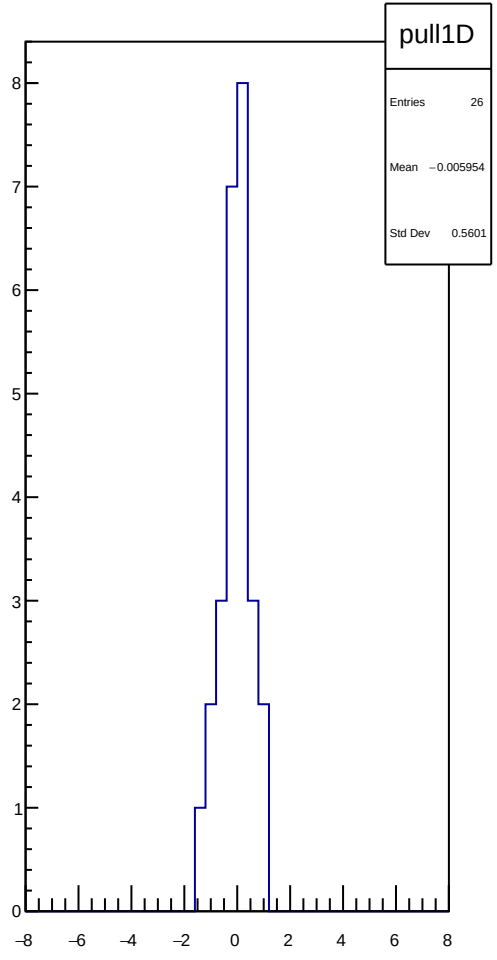

pull1D
Entries 26
Mean 0.003398
Std Dev 0.3925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

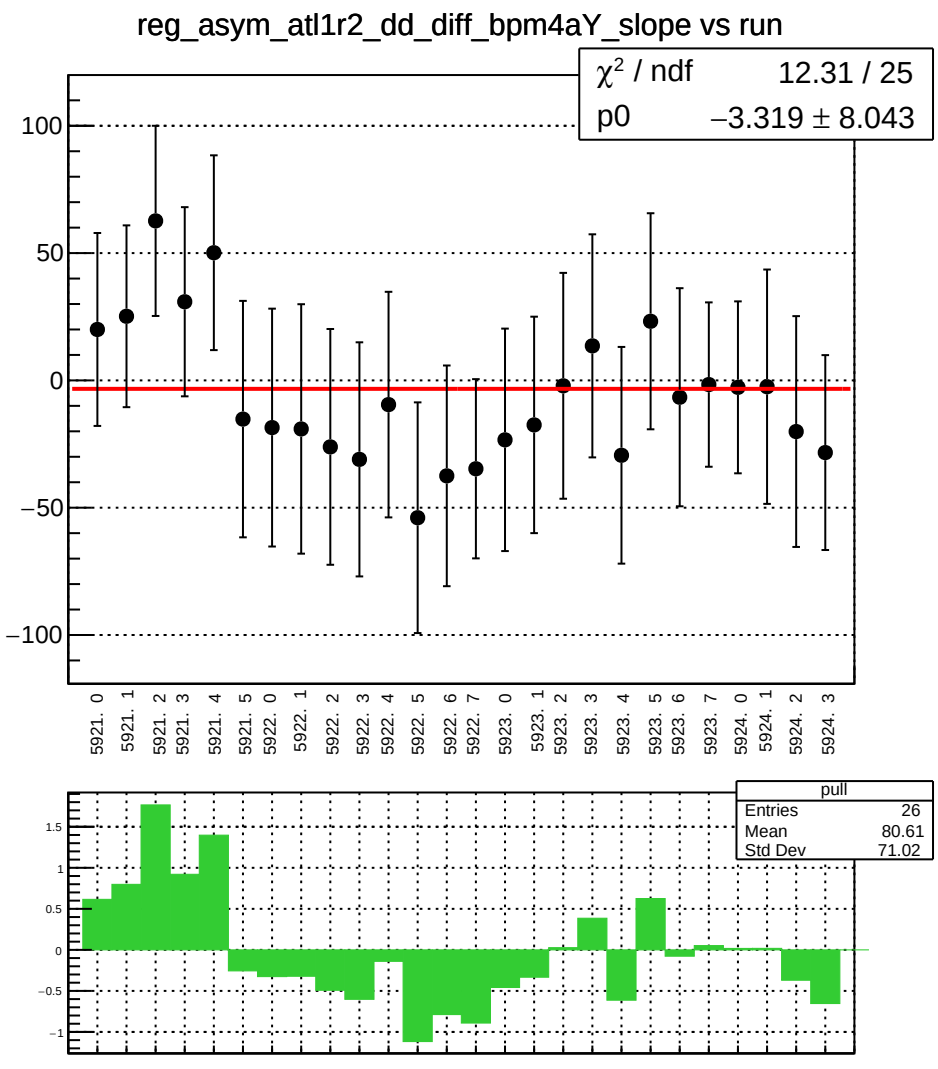

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.926 / 25
p0 28.96 ± 10.38
150
100
50
0
−50
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 79.8
Std Dev 71.23
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.02568
Std Dev 0.5155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

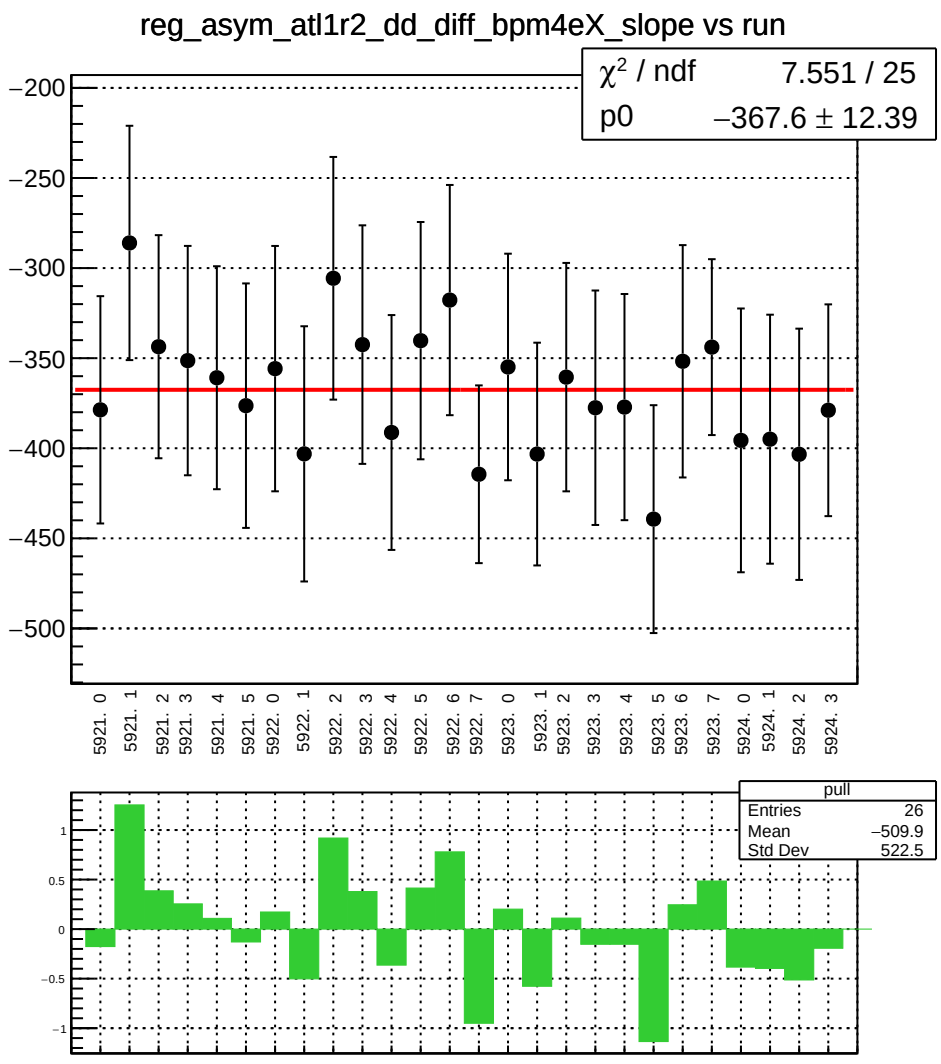

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.76 / 25
p0 −125 ± 0.6487
−118
−120
−122
−124
−126
−128
−130
−132
−134
−136
−138
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 122.9
Std Dev 108.8
0.5
0
−0.5
−1
−1.5
−2

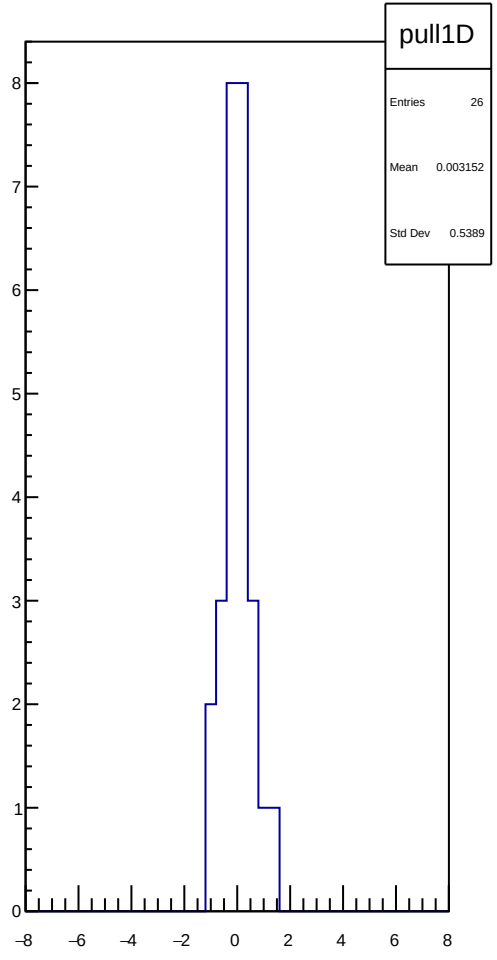

pull1D
Entries 26
Mean −0.01443
Std Dev 0.6432
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

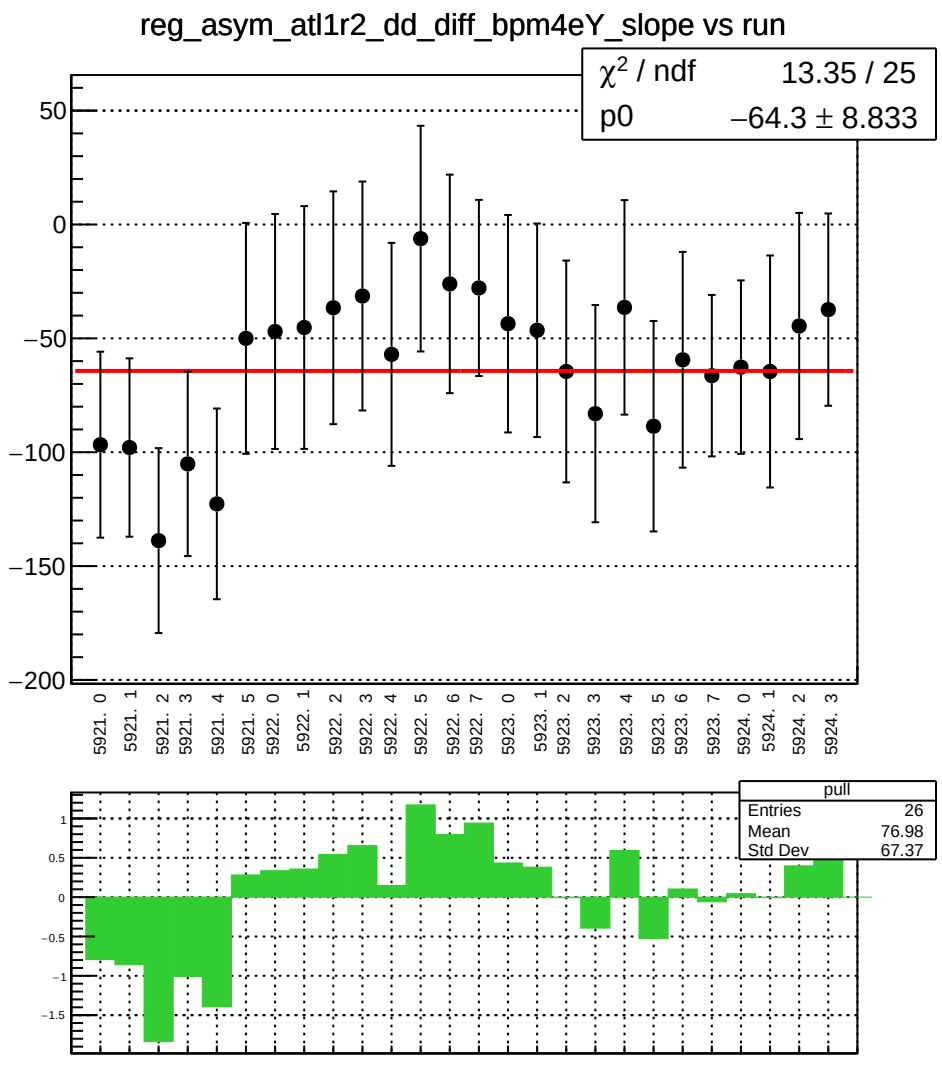

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.157 / 25
p0 244.3 ± 9.848
350
300
250
200
150
100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −277.6
Std Dev 290
1
0.5
0
−0.5
−1

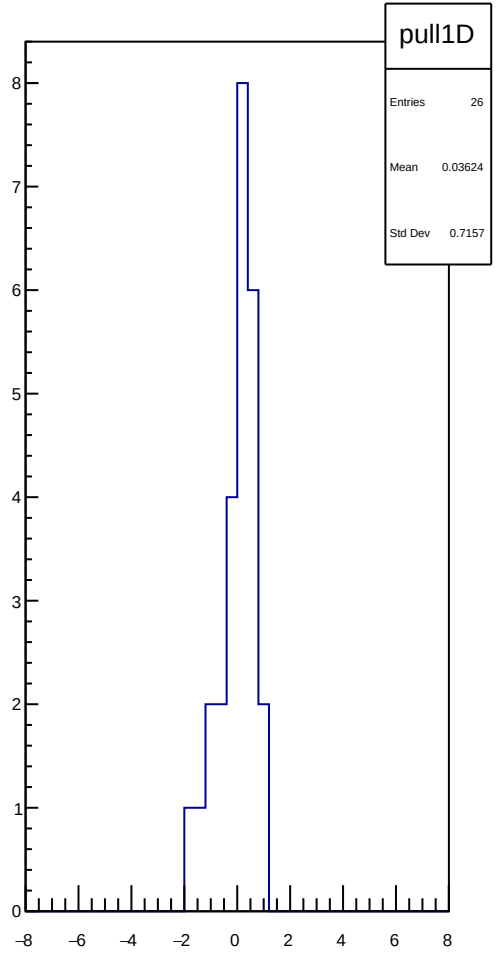

pull1D
Entries 26
Mean −0.005954
Std Dev 0.5601
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

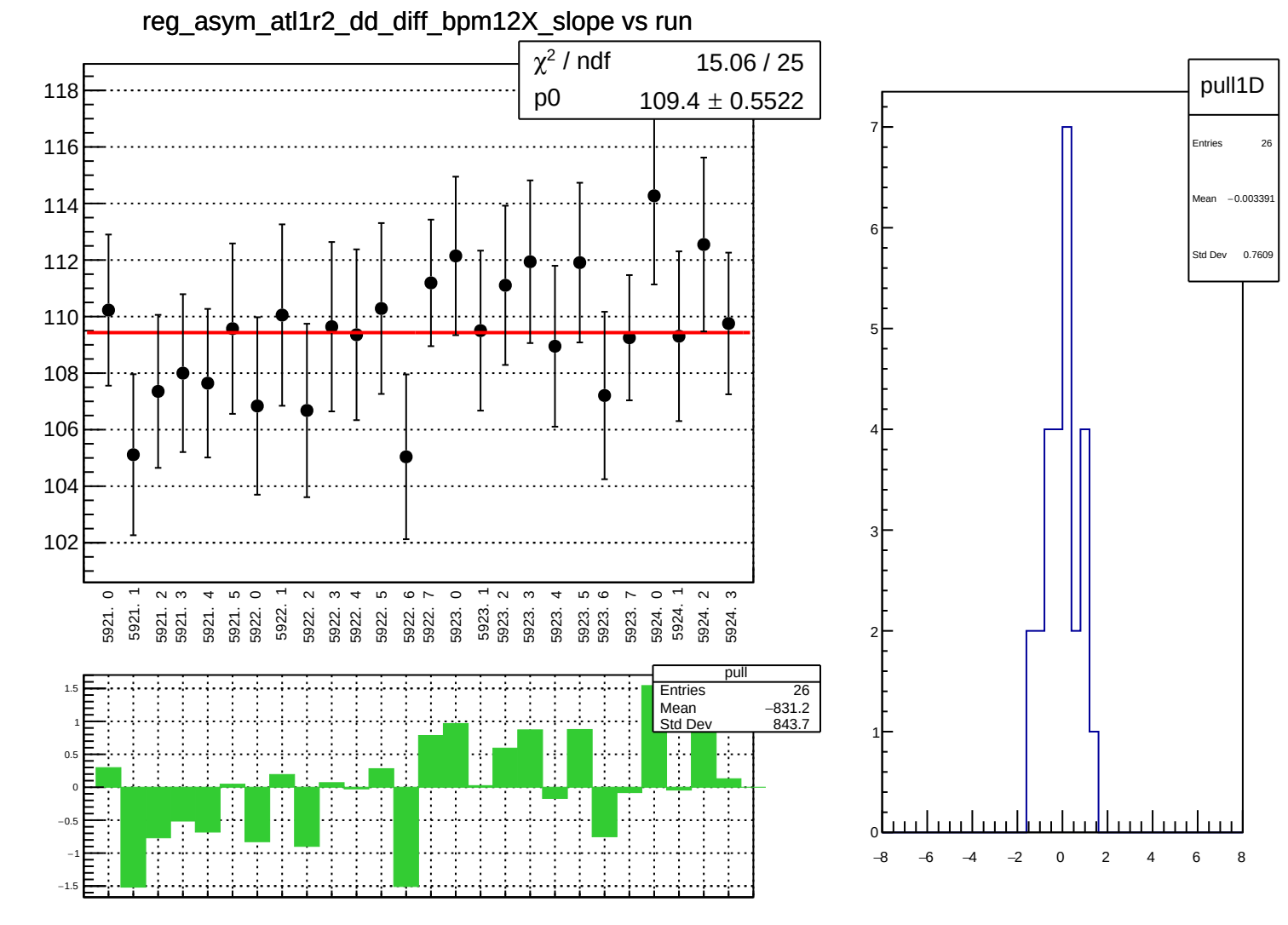

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.31 / 25
p0 −3.319 ± 8.043
100
50
0
−50
−100
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 80.61
Std Dev 71.02
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.03138
Std Dev 0.6875
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

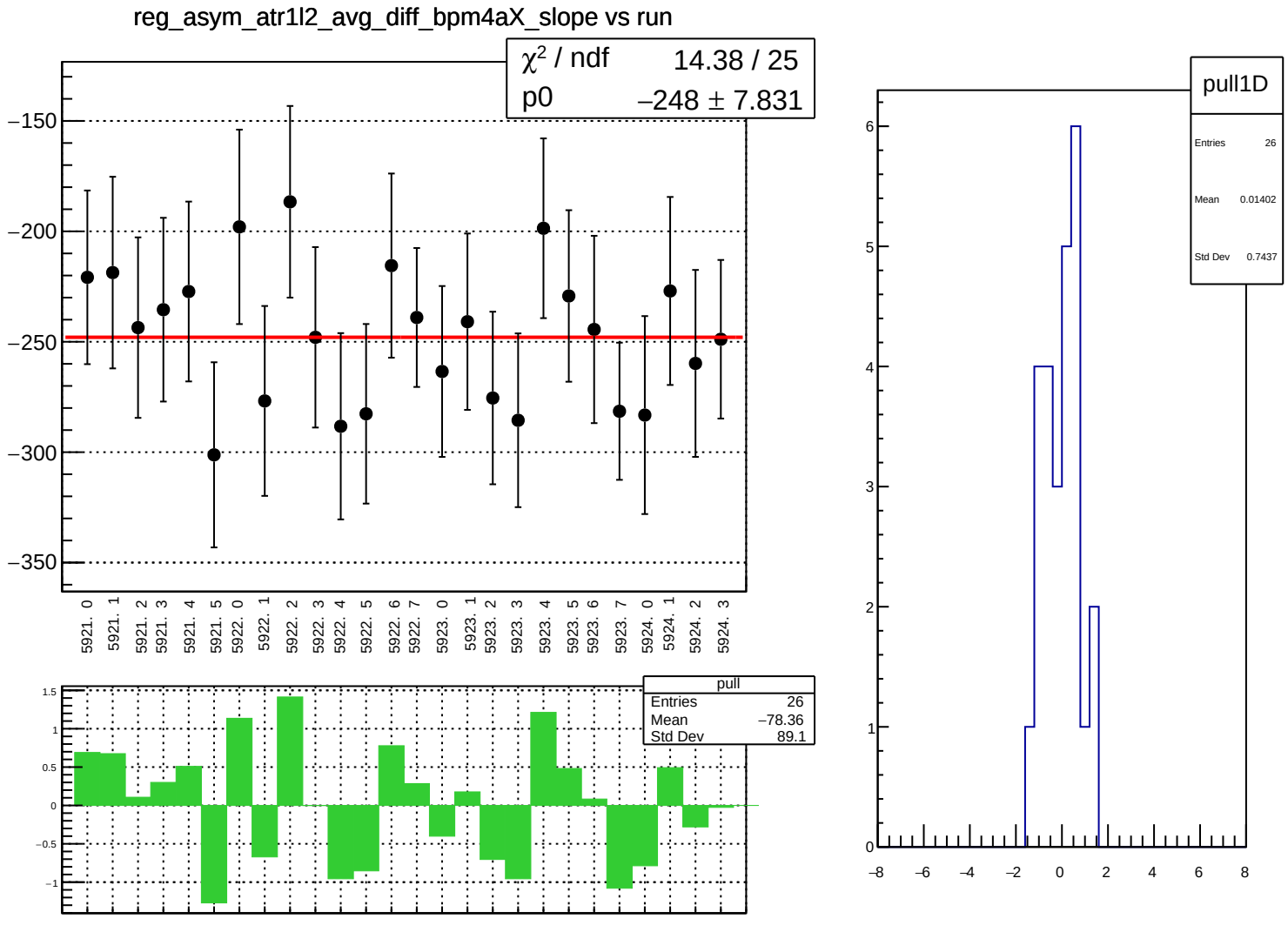

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.551 / 25
p0 −367.6 ± 12.39
−200
−250
−300
−350
−400
−450
−500
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −509.9
Std Dev 522.5
1
0.5
0
−0.5
−1

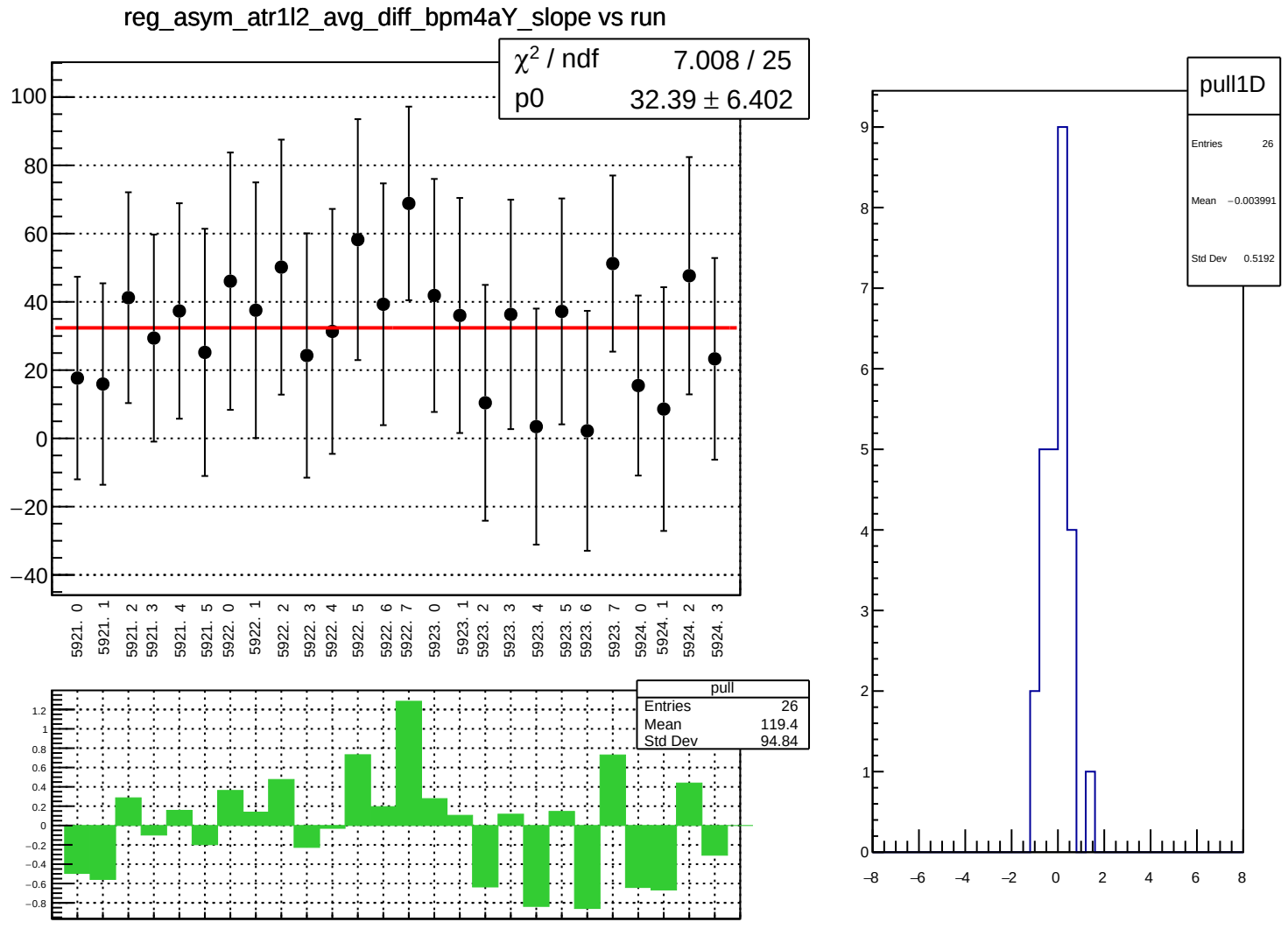

pull1D
Entries 26
Mean 0.003152
Std Dev 0.5389
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

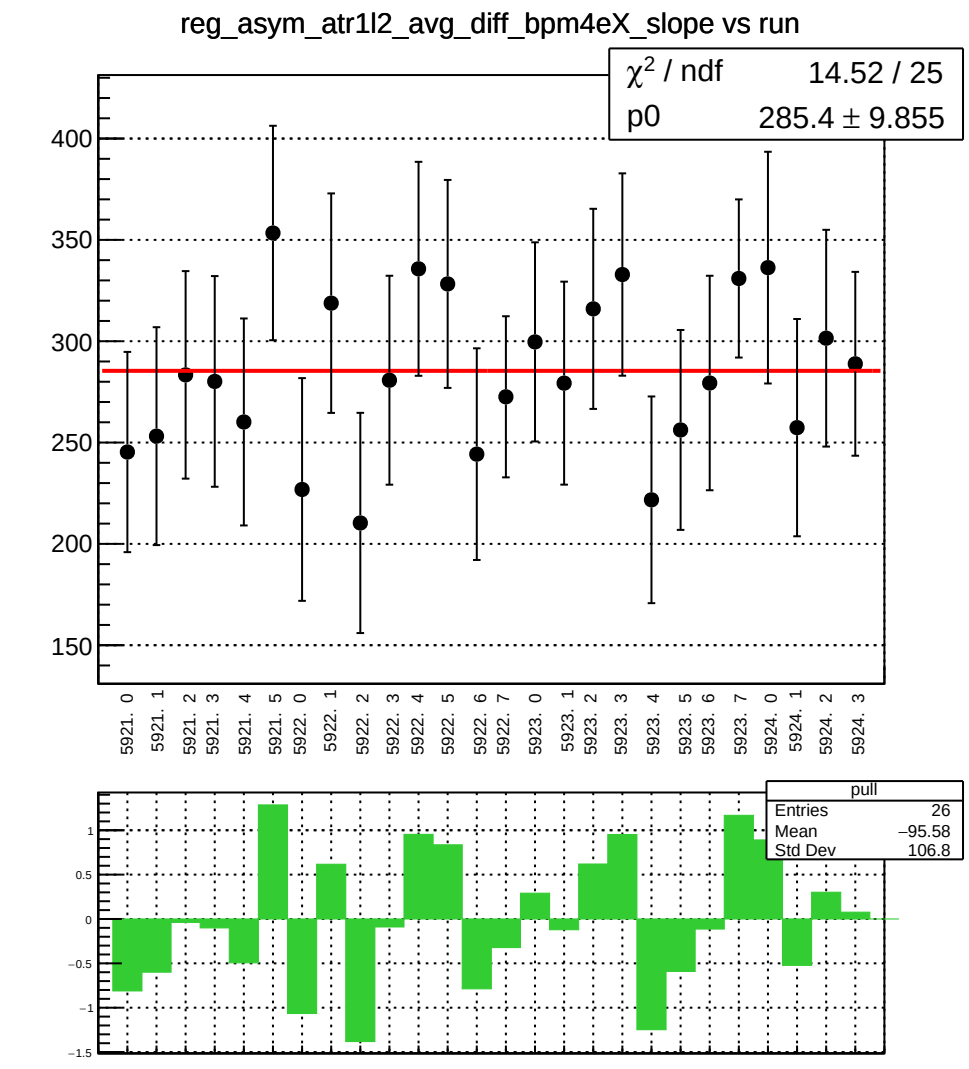

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.35 / 25
p0 −64.3 ± 8.833
50
0
−50
−100
−150
−200
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 76.98
Std Dev 67.37
1
0.5
0
−0.5
−1
−1.5

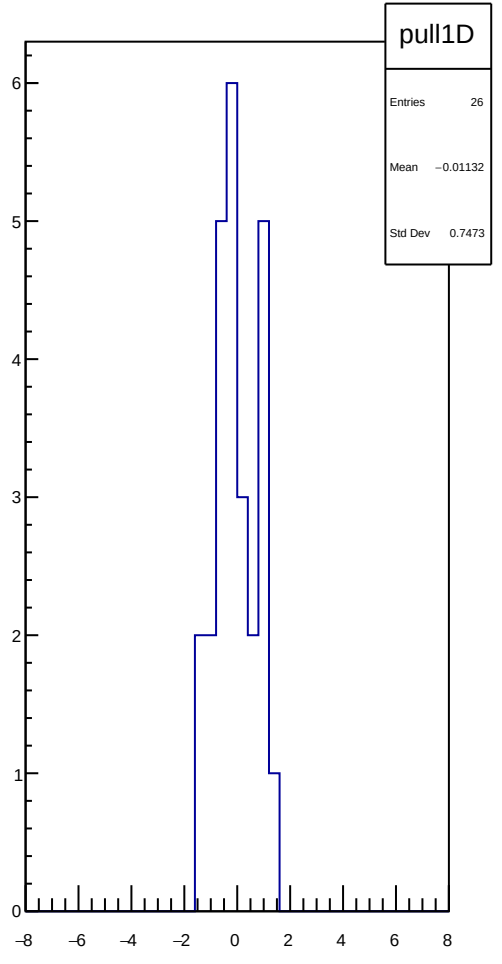

pull1D
Entries 26
Mean 0.03624
Std Dev 0.7157
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

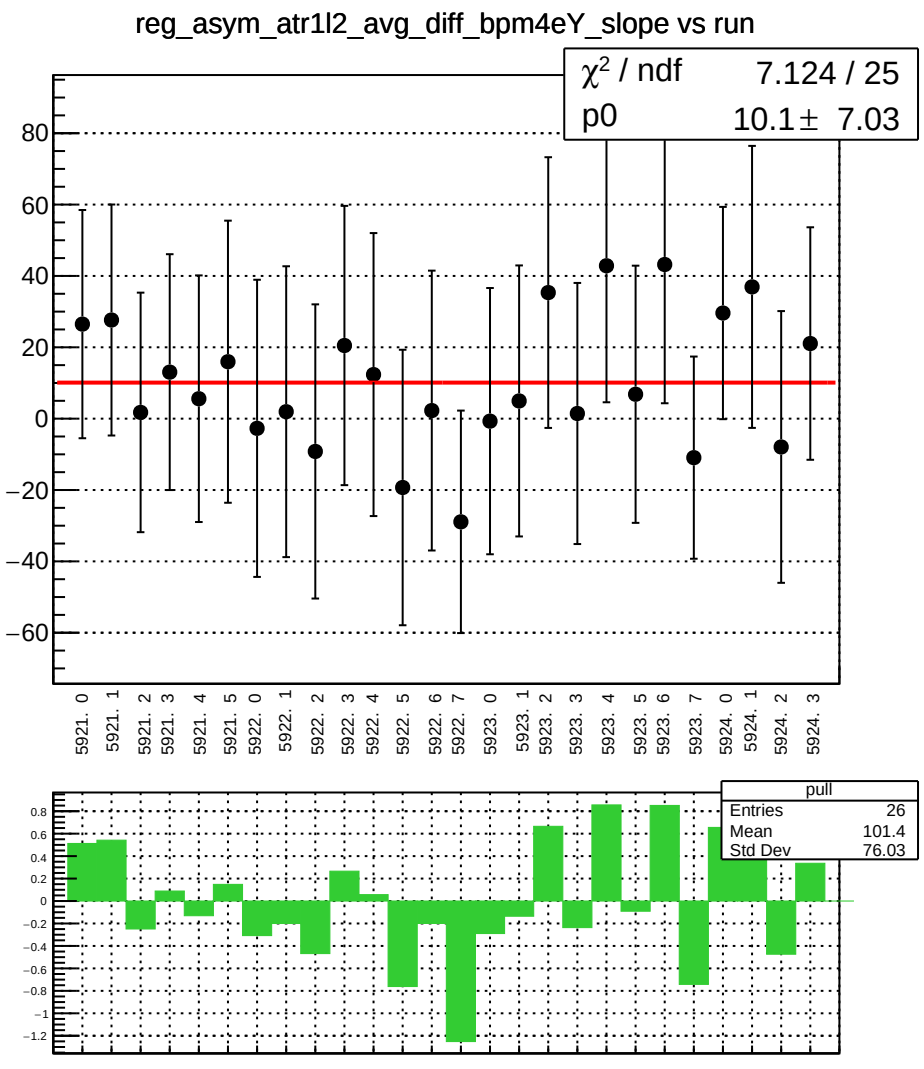

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.06 / 25
p0 109.4 ± 0.5522
118
116
114
112
110
108
106
104
102
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −831.2
Std Dev 843.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.003391
Std Dev 0.7609
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

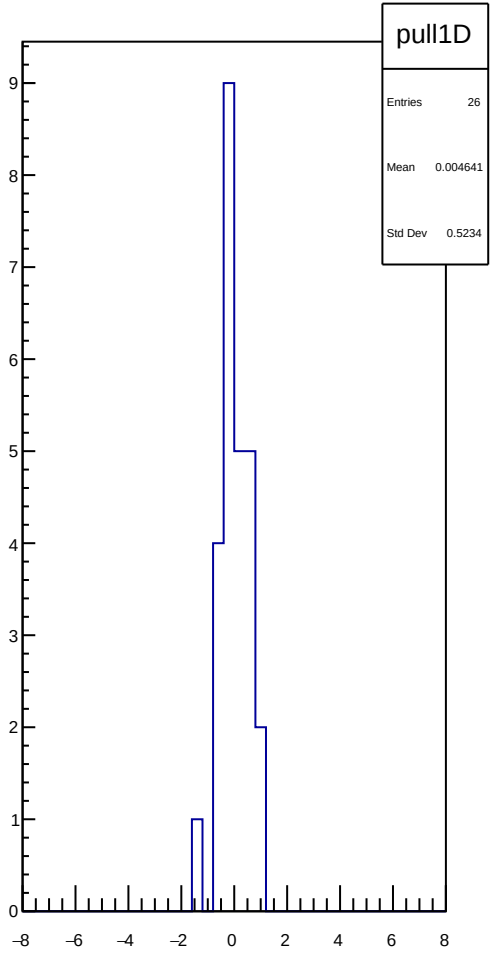

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.38 / 25
p0 −248 ± 7.831
−150
−200
−250
−300
−350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −78.36
Std Dev 89.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.01402
Std Dev 0.7437
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

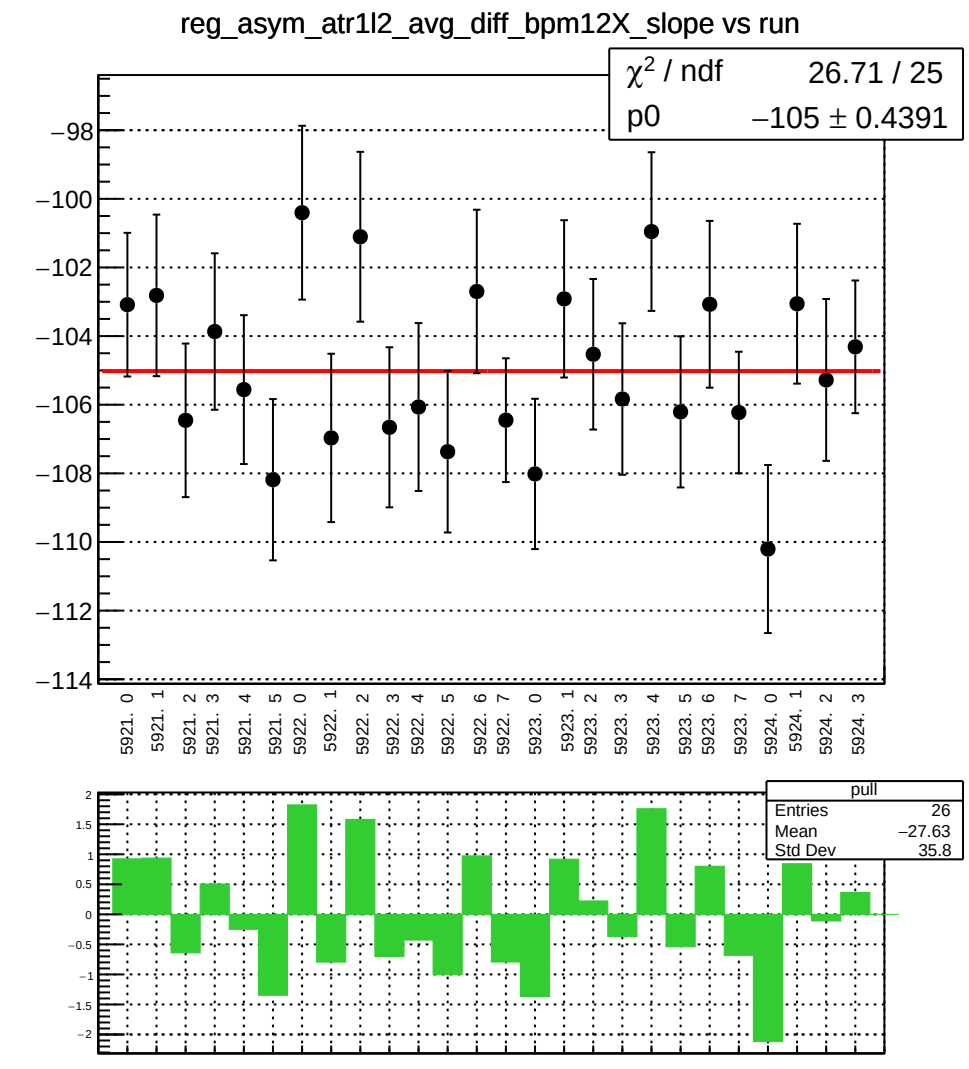

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.008 / 25
p0 32.39 ± 6.402
pull
Entries 26
Mean 119.4
Std Dev 94.84
pull1D
Entries 26
Mean −0.003991
Std Dev 0.5192

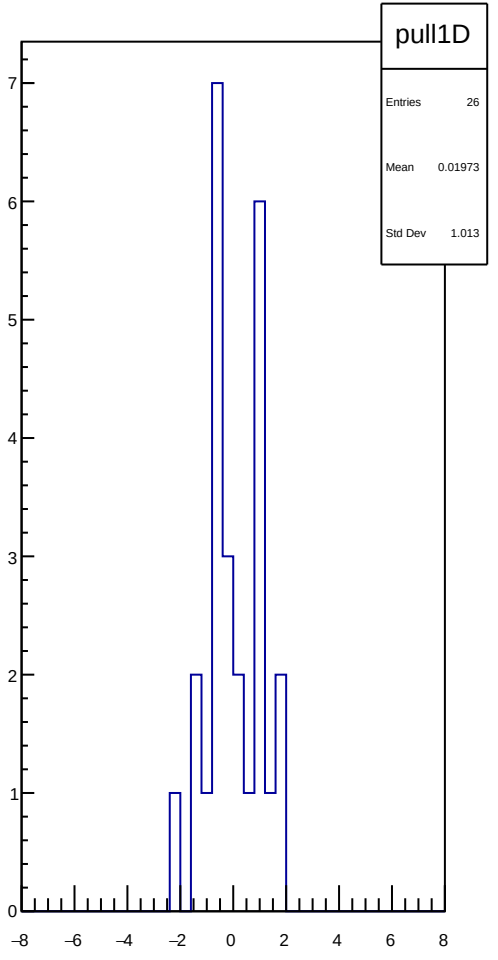

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.52 / 25
p0 285.4 ± 9.855
400
350
300
250
200
150
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −95.58
Std Dev 106.8
1
0.5
0
−0.5
−1
−1.5

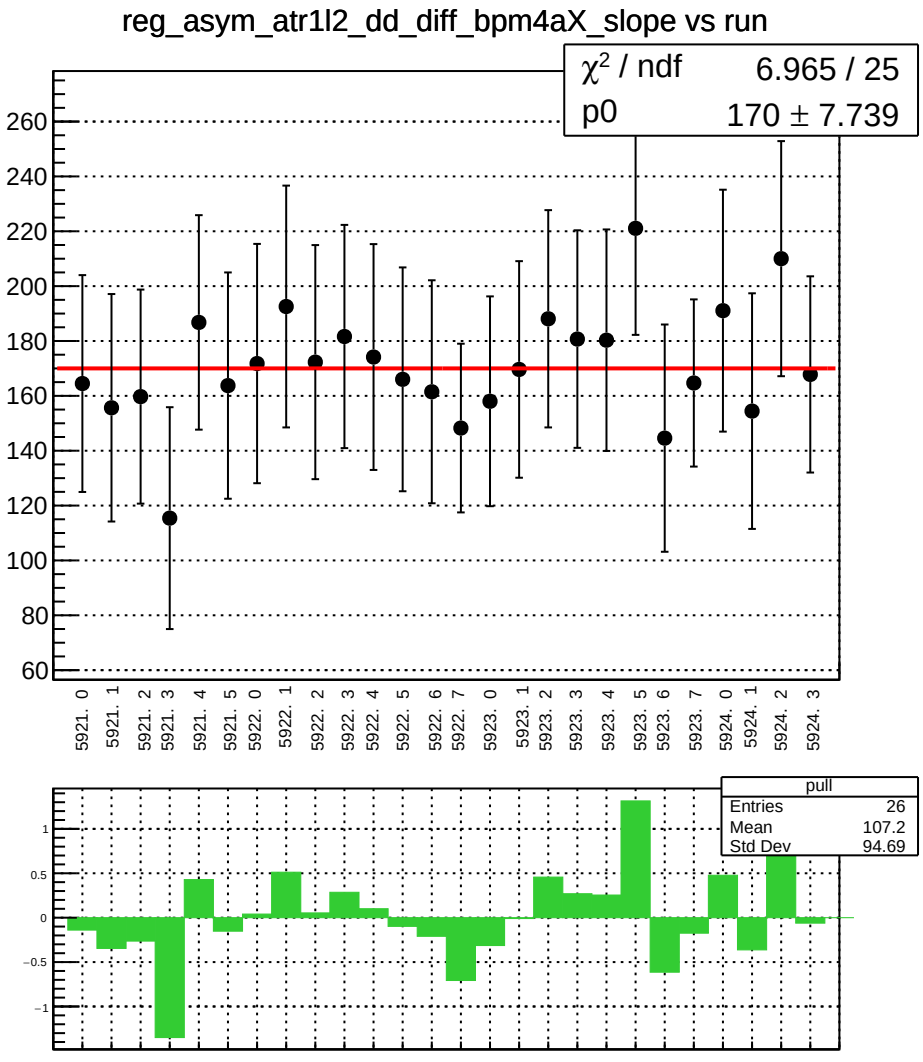

pull1D
Entries 26
Mean −0.01132
Std Dev 0.7473
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

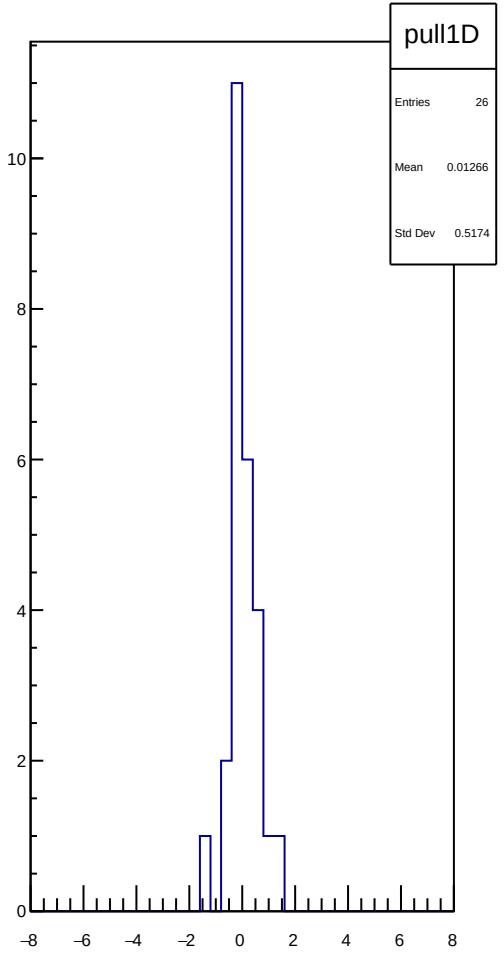

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.124 / 25
p0 10.1± 7.03
80
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 101.4
Std Dev 76.03
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

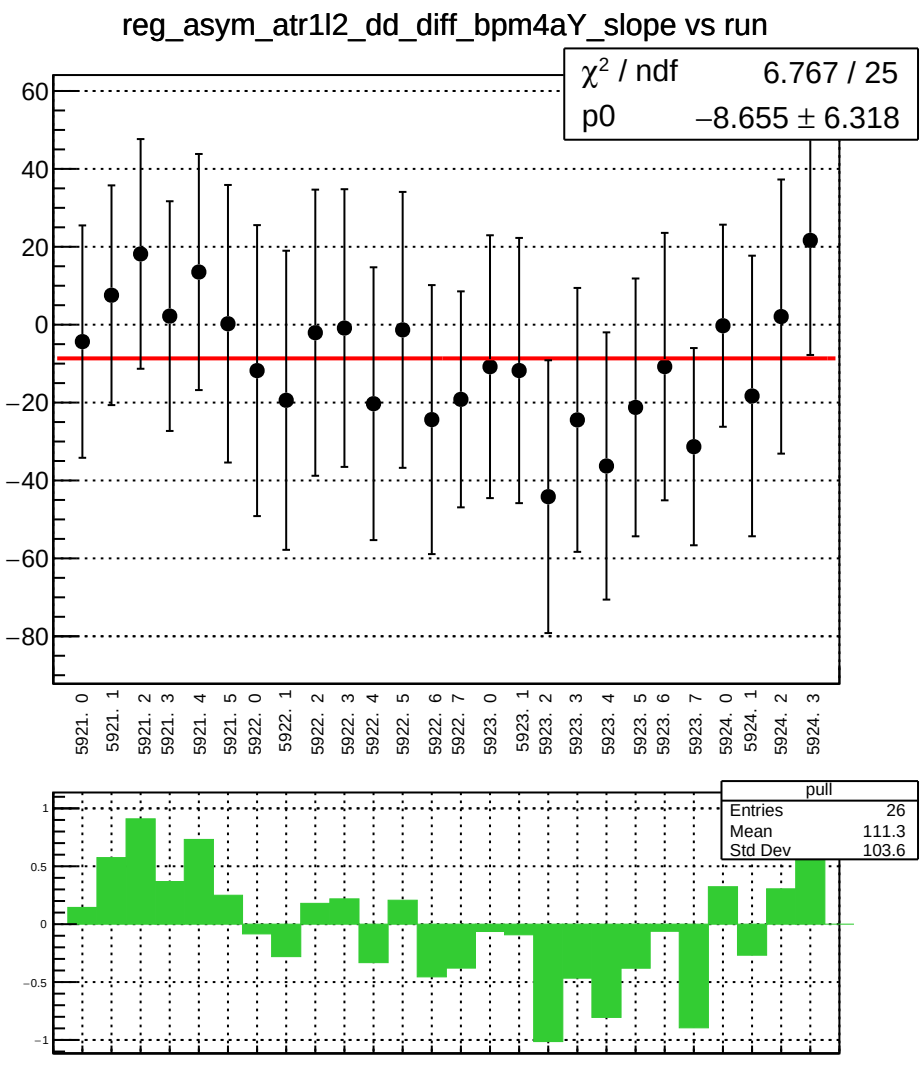

pull1D
Entries 26
Mean 0.004641
Std Dev 0.5234
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

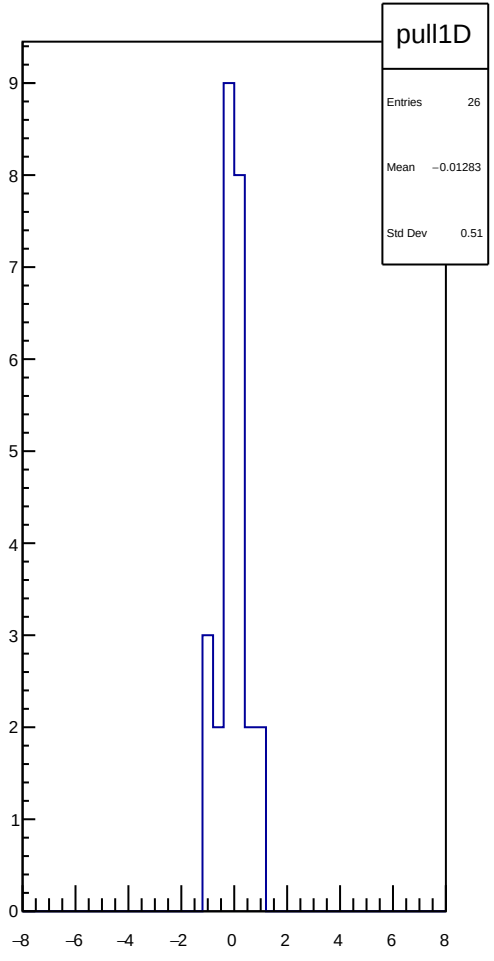

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 26.71 / 25
p0 −105 ± 0.4391
−98
−100
−102
−104
−106
−108
−110
−112
−114
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −27.63
Std Dev 35.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

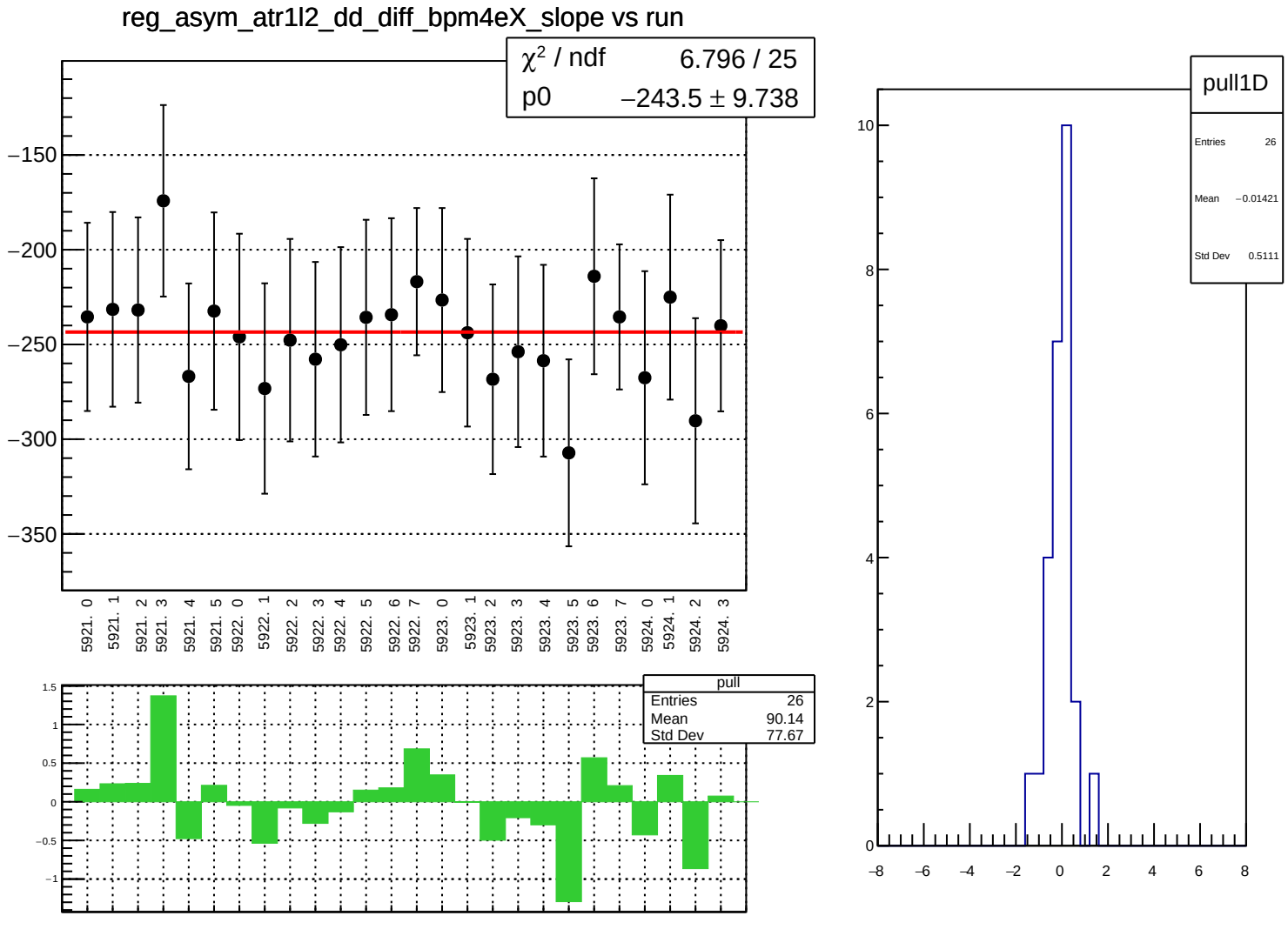

pull1D
Entries 26
Mean 0.01973
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

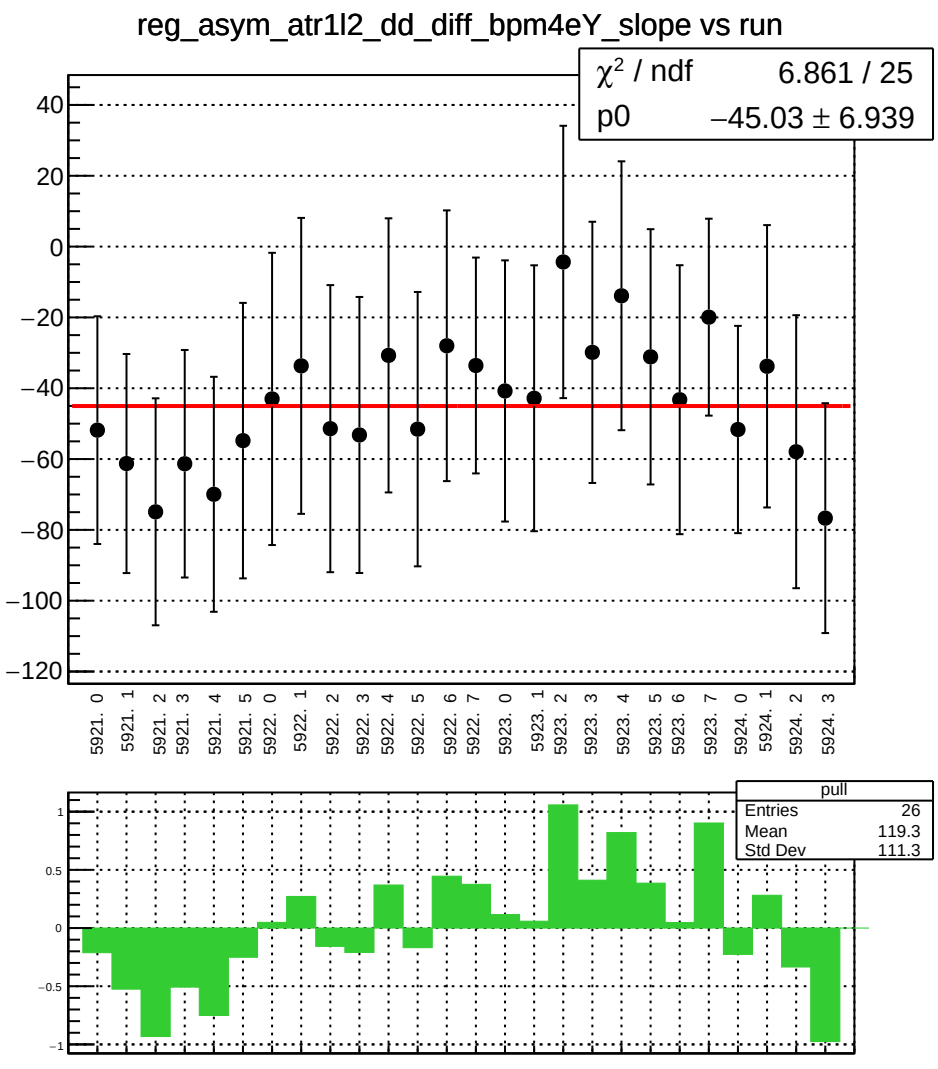

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.965 / 25
p0 170 ± 7.739
pull
Entries 26
Mean 107.2
Std Dev 94.69

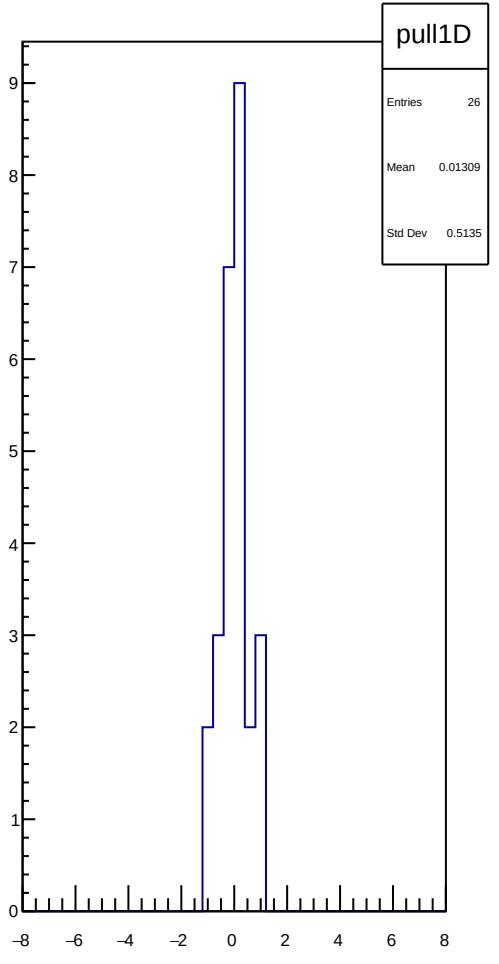

pull1D
Entries 26
Mean 0.01266
Std Dev 0.5174

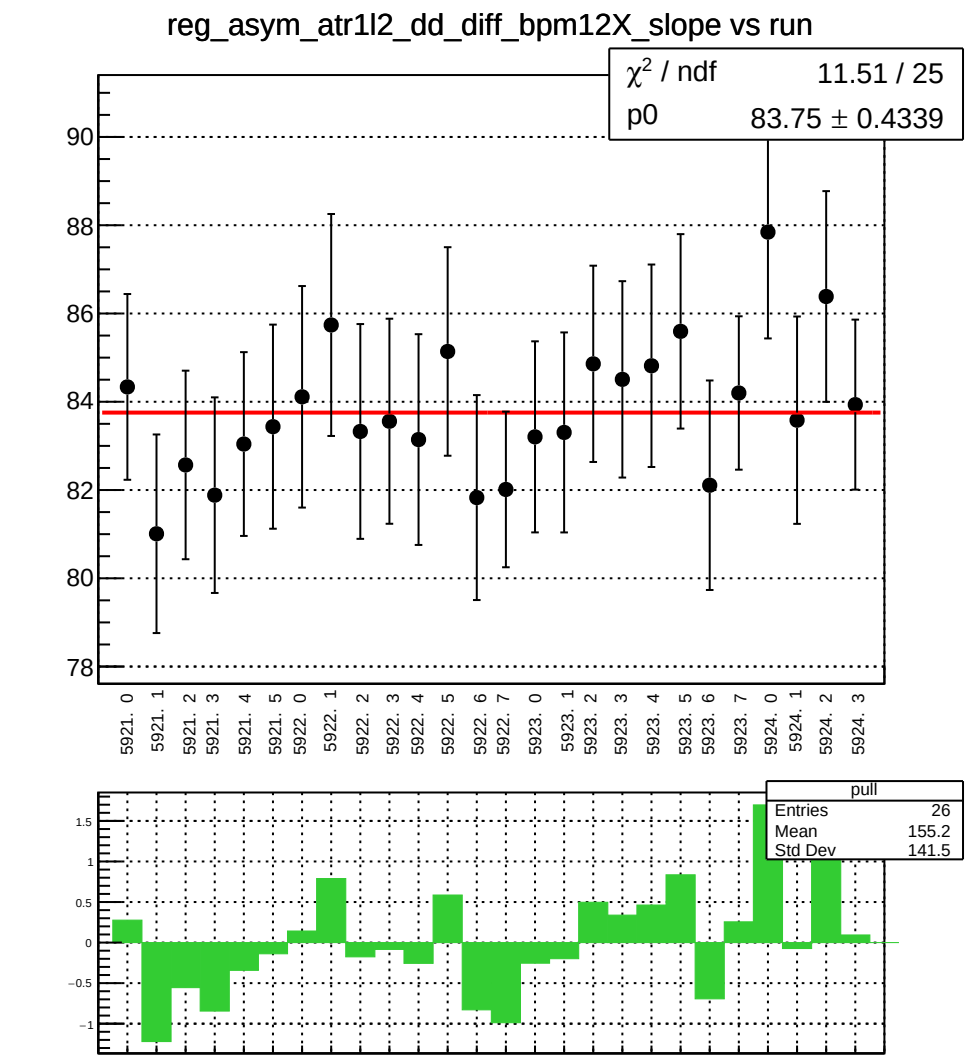

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.767 / 25
p0 −8.655 ± 6.318
pull
Entries 26
Mean 111.3
Std Dev 103.6

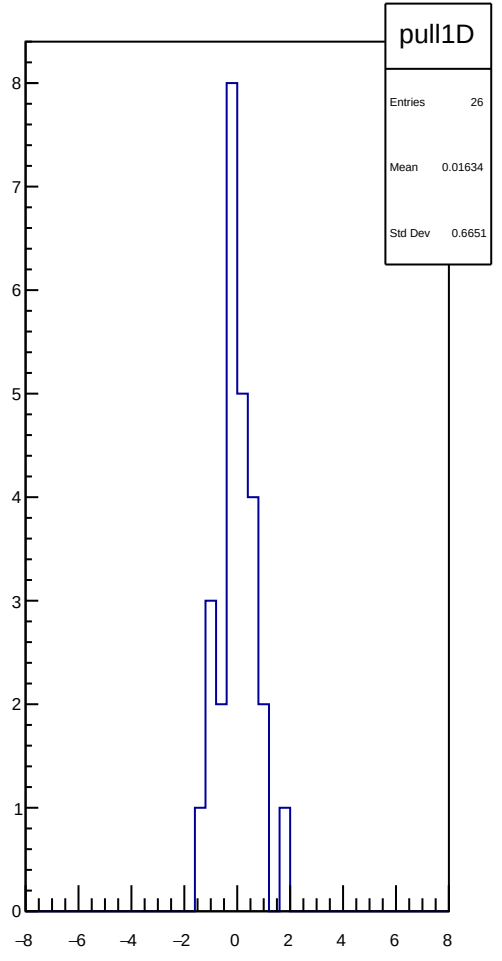

pull1D
Entries 26
Mean −0.01283
Std Dev 0.51

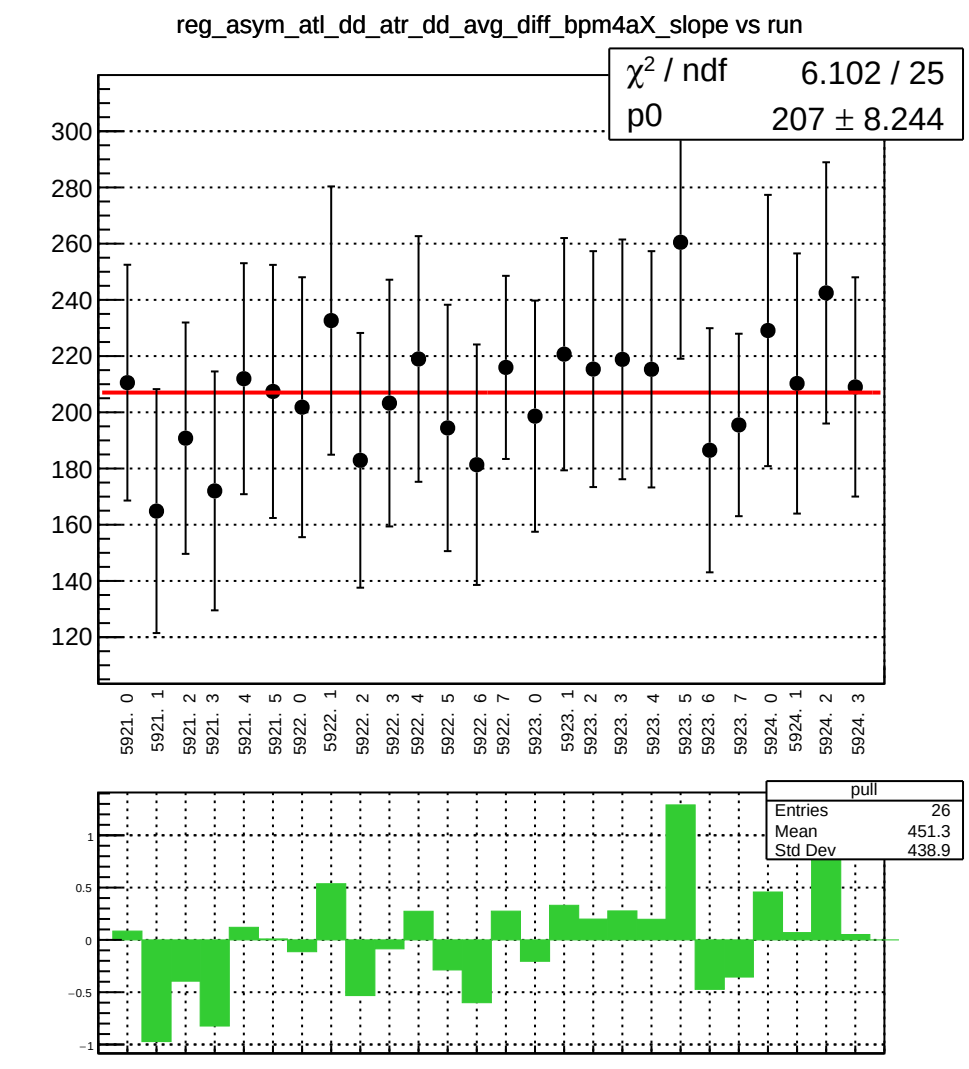

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.796 / 25
p0 −243.5 ± 9.738
−150
−200
−250
−300
−350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 90.14
Std Dev 77.67
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.01421
Std Dev 0.5111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

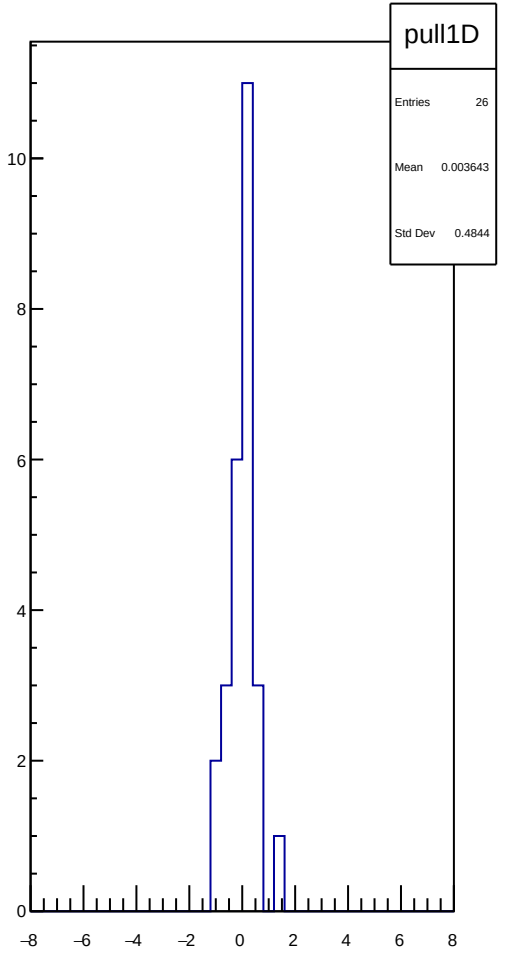

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.861 / 25
p0 −45.03 ± 6.939
40
20
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 119.3
Std Dev 111.3
1
0.5
0
−0.5
−1

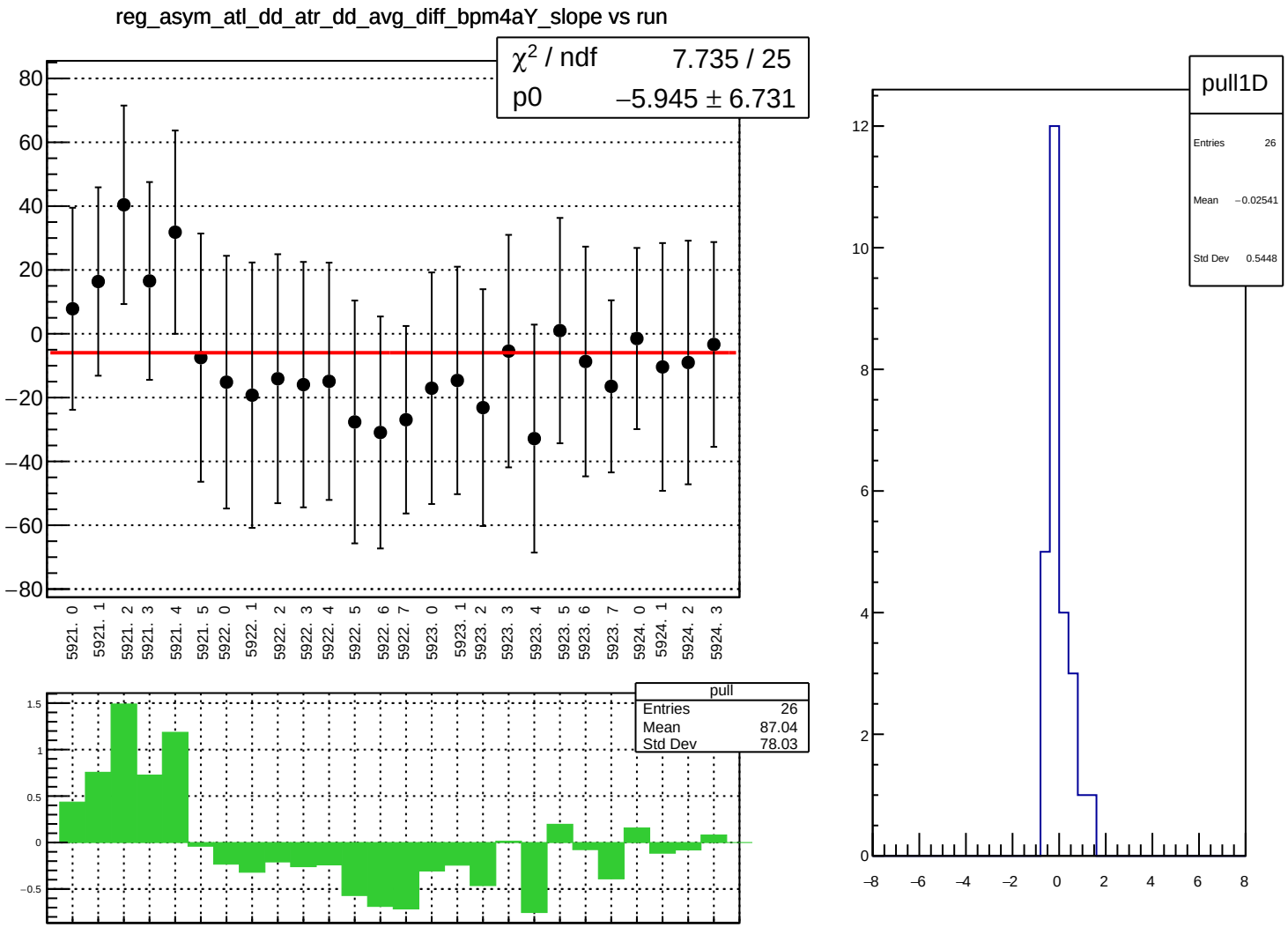

pull1D
Entries 26
Mean 0.01309
Std Dev 0.5135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

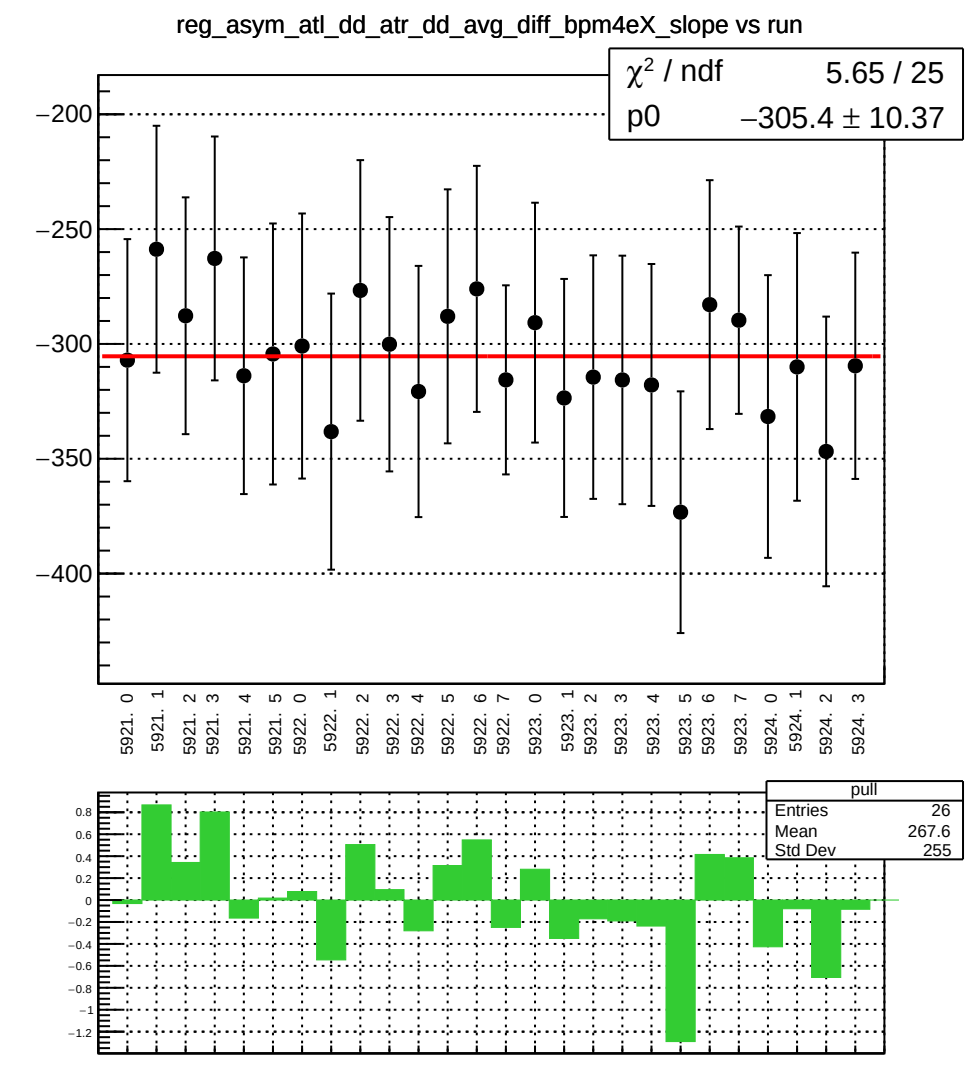

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.51 / 25
p0 83.75 ± 0.4339
90
88
86
84
82
80
78
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 155.2
Std Dev 141.5
1.5
1
0.5
0
−0.5
−1

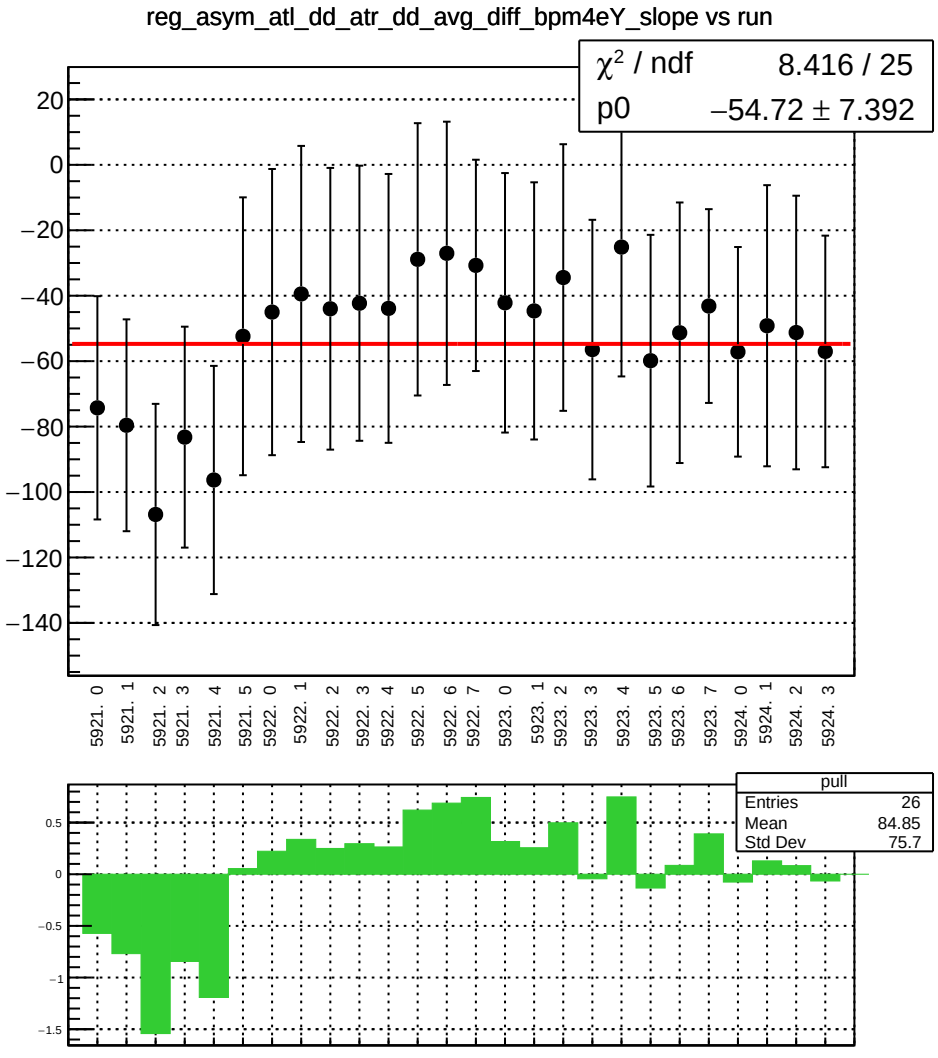

pull1D
Entries 26
Mean 0.01634
Std Dev 0.6651
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

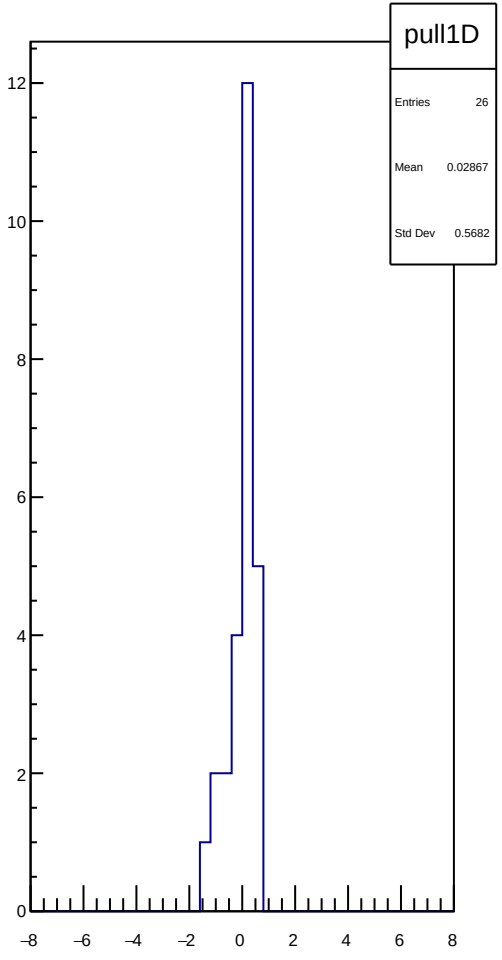

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.102 / 25
p0 207 ± 8.244
300
280
260
240
220
200
180
160
140
120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 451.3
Std Dev 438.9
1
0.5
0
−0.5
−1

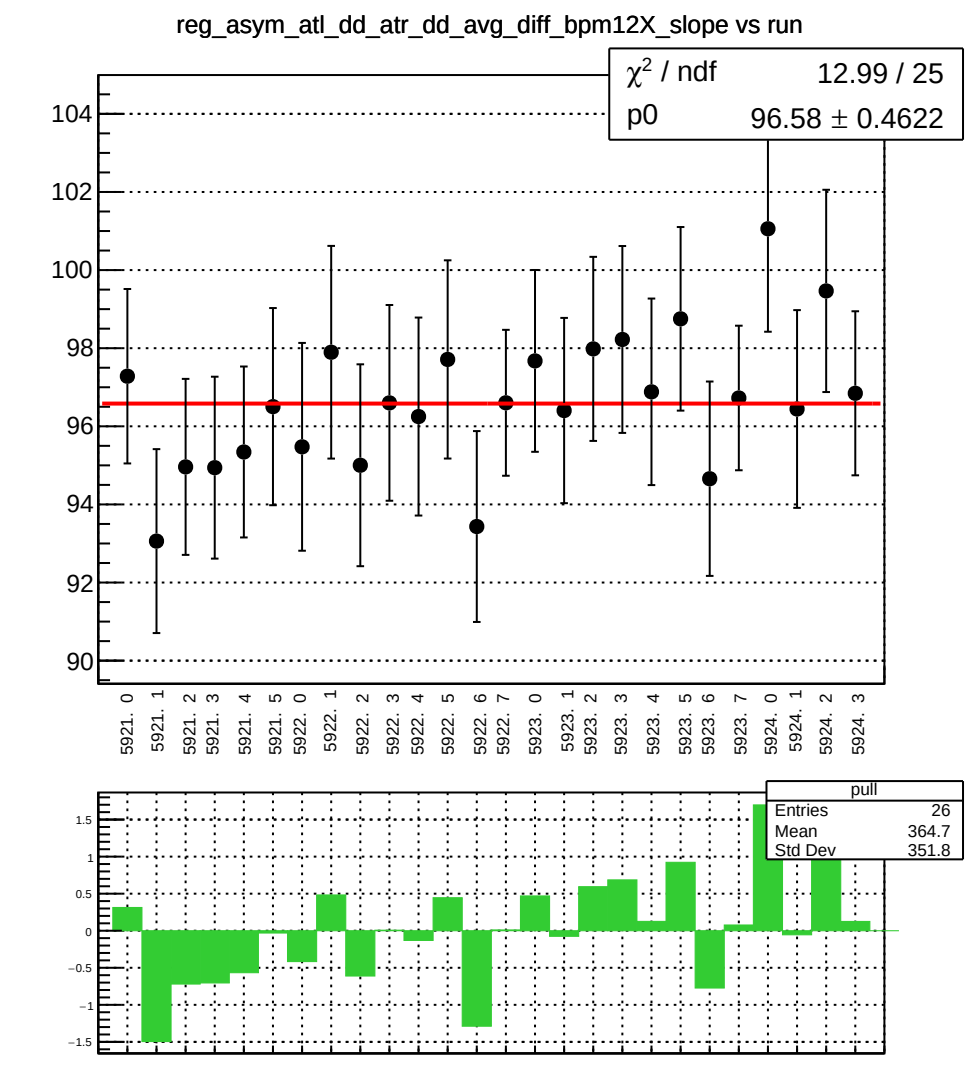

pull1D
Entries 26
Mean 0.003643
Std Dev 0.4844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

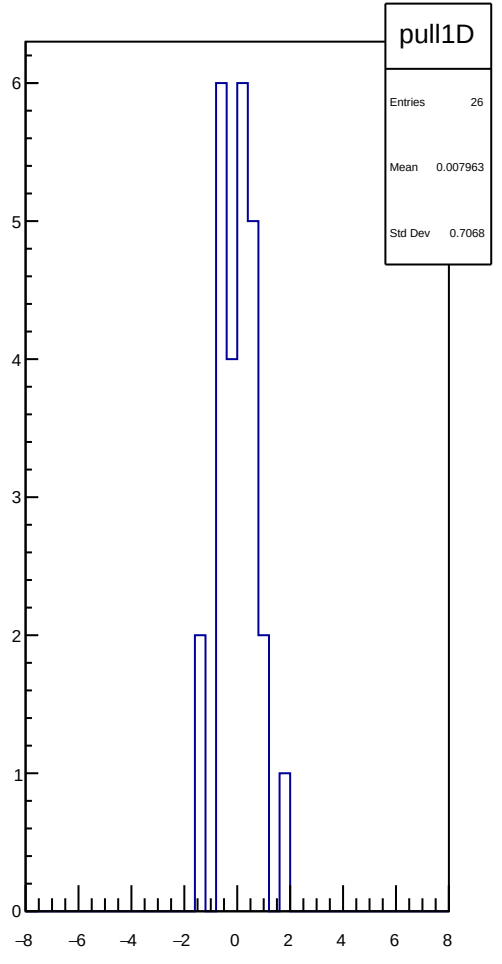

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.735 / 25
p0 −5.945 ± 6.731
80
60
40
20
0
−20
−40
−60
−80
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 87.04
Std Dev 78.03
1.5
1
0.5
0
−0.5
pull1D
Entries 26
Mean −0.02541
Std Dev 0.5448
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

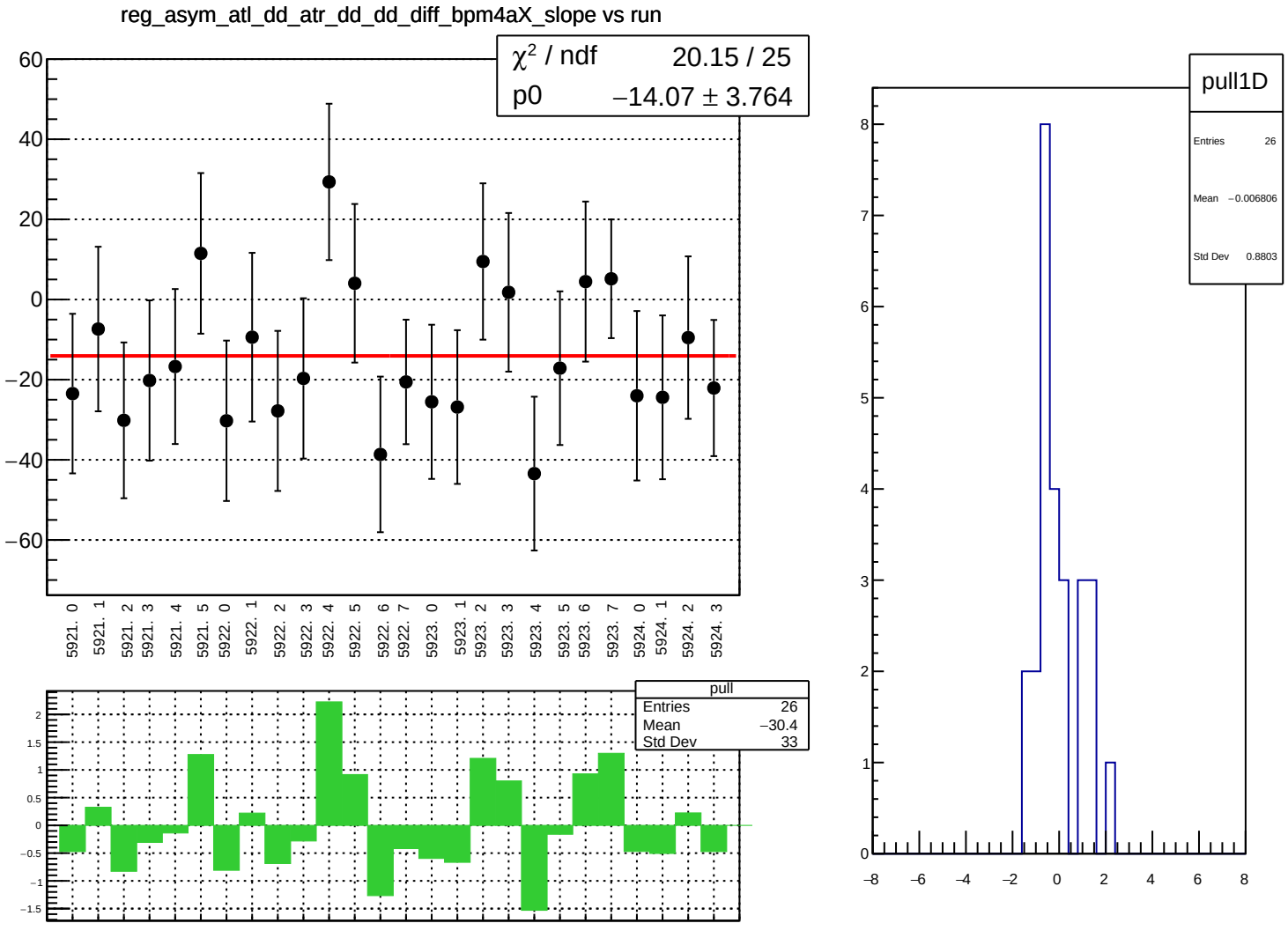

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.65 / 25
p0 −305.4 ± 10.37
−200
−250
−300
−350
−400
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 267.6
Std Dev 255
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 26
Mean −0.0059
Std Dev 0.4661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.416 / 25
p0 −54.72 ± 7.392
20
0
−20
−40
−60
−80
−100
−120
−140
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 84.85
Std Dev 75.7
0.5
0
−0.5
−1
−1.5

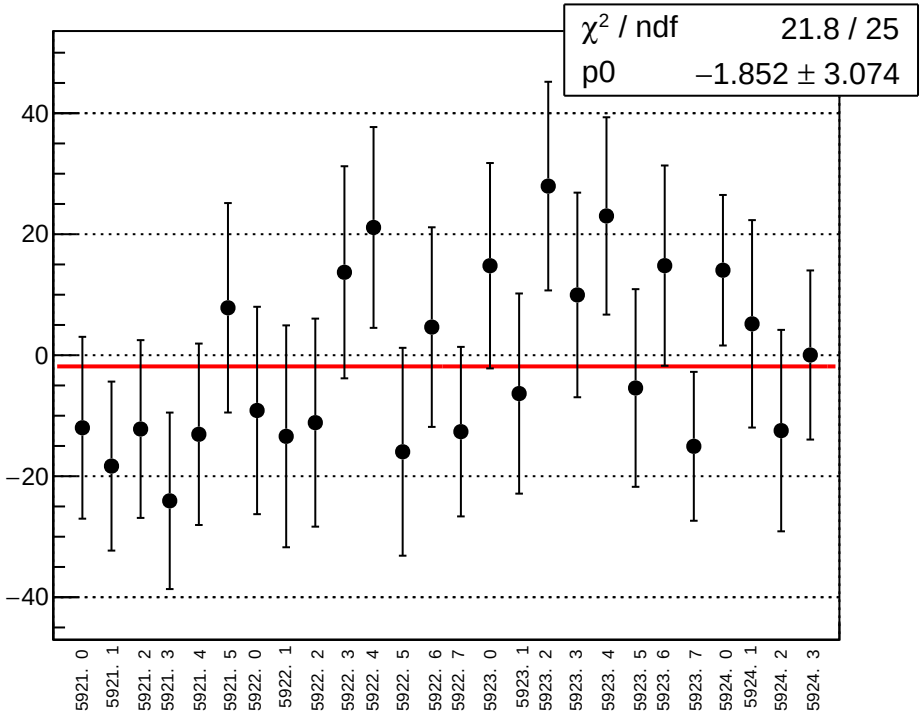

pull1D
Entries 26
Mean 0.02867
Std Dev 0.5682
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

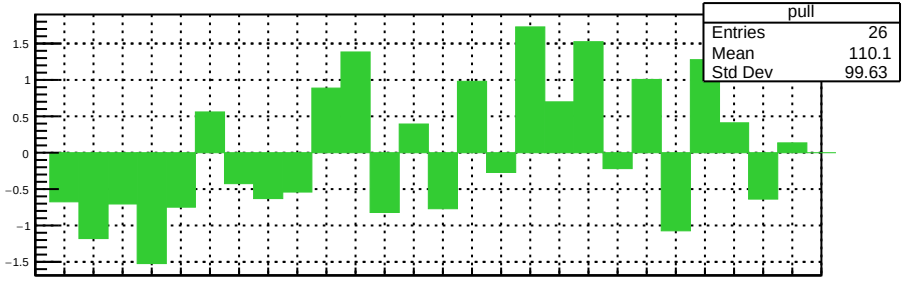

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 12.99 / 25
p0 96.58 ± 0.4622
104
102
100
98
96
94
92
90
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 364.7
Std Dev 351.8
1.5
1
0.5
0
−0.5
−1
−1.5

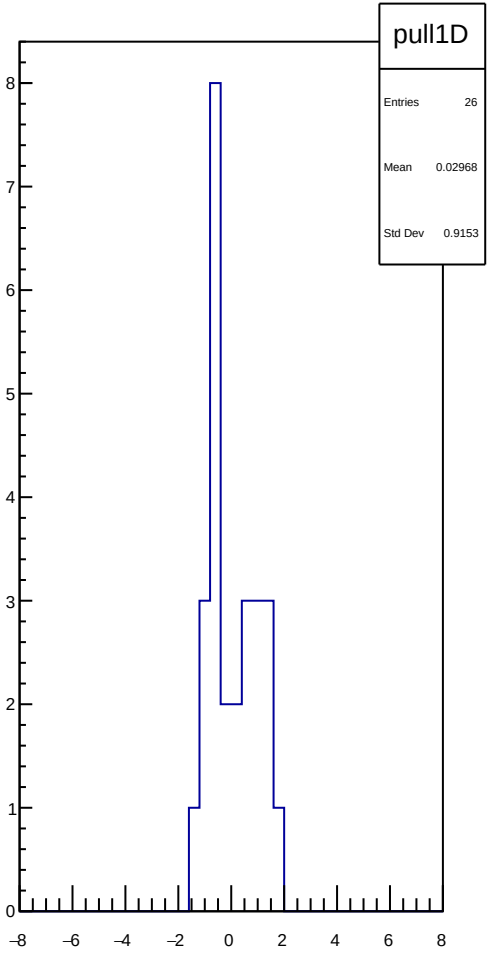

pull1D
Entries 26
Mean 0.007963
Std Dev 0.7068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

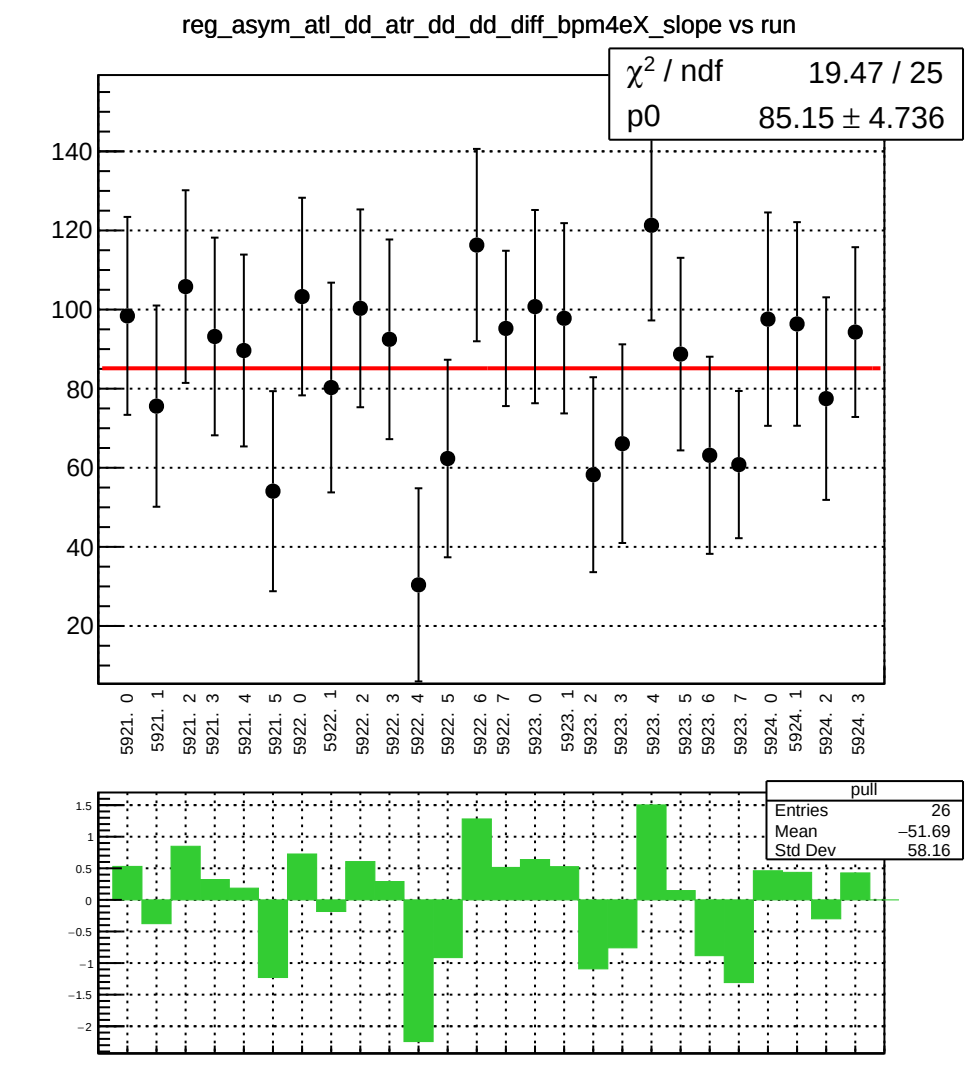

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.15 / 25
p0 −14.07 ± 3.764
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −30.4
Std Dev 33
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.006806
Std Dev 0.8803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

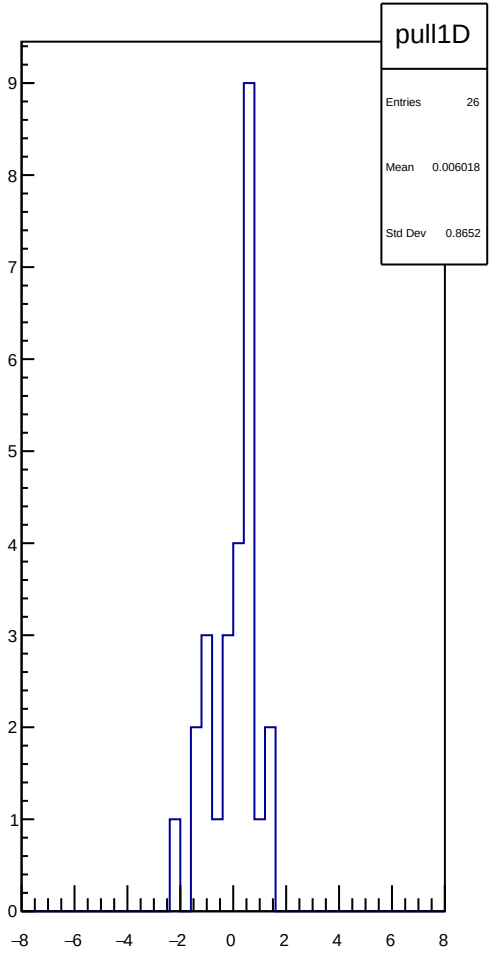
reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run

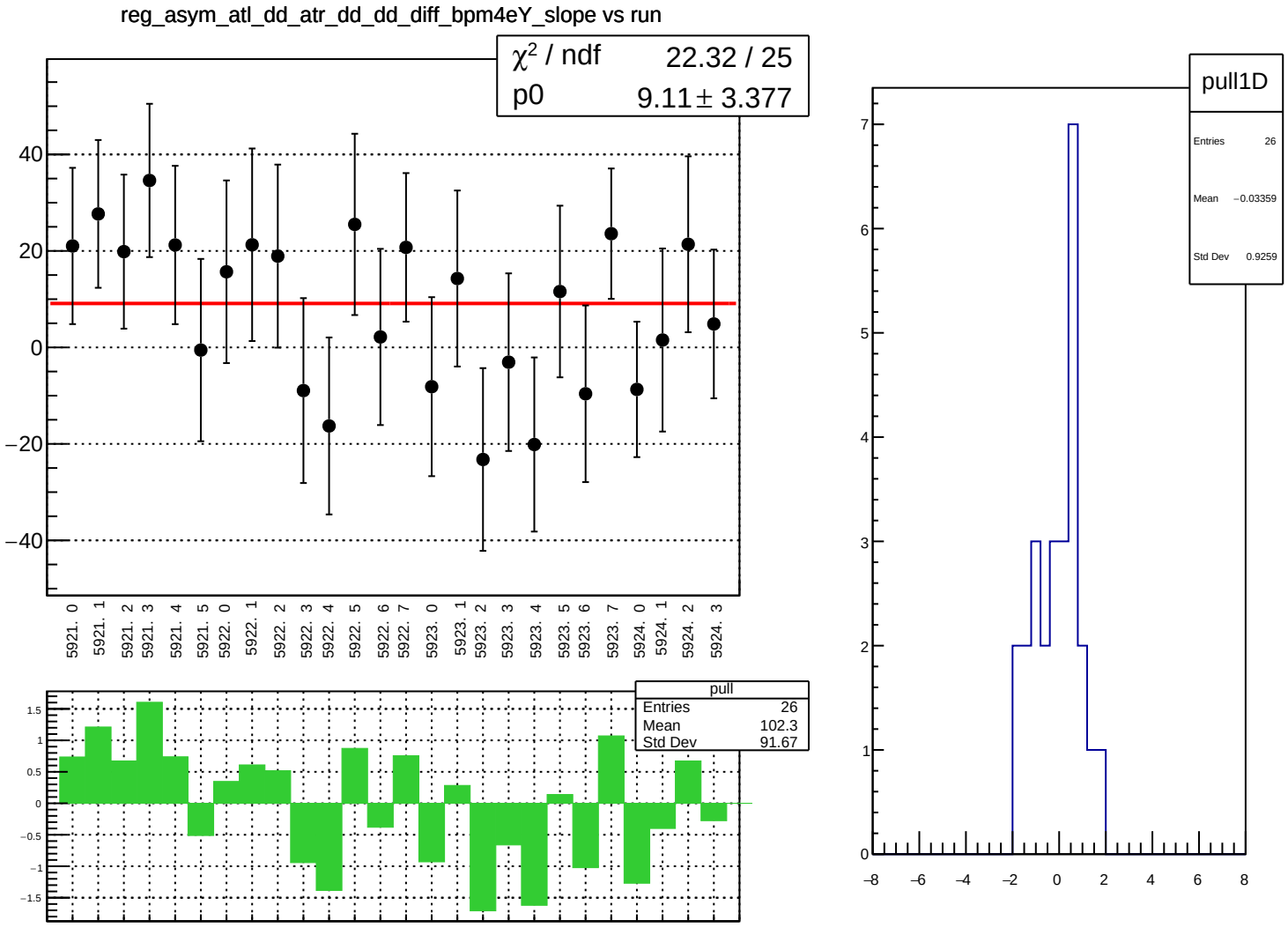


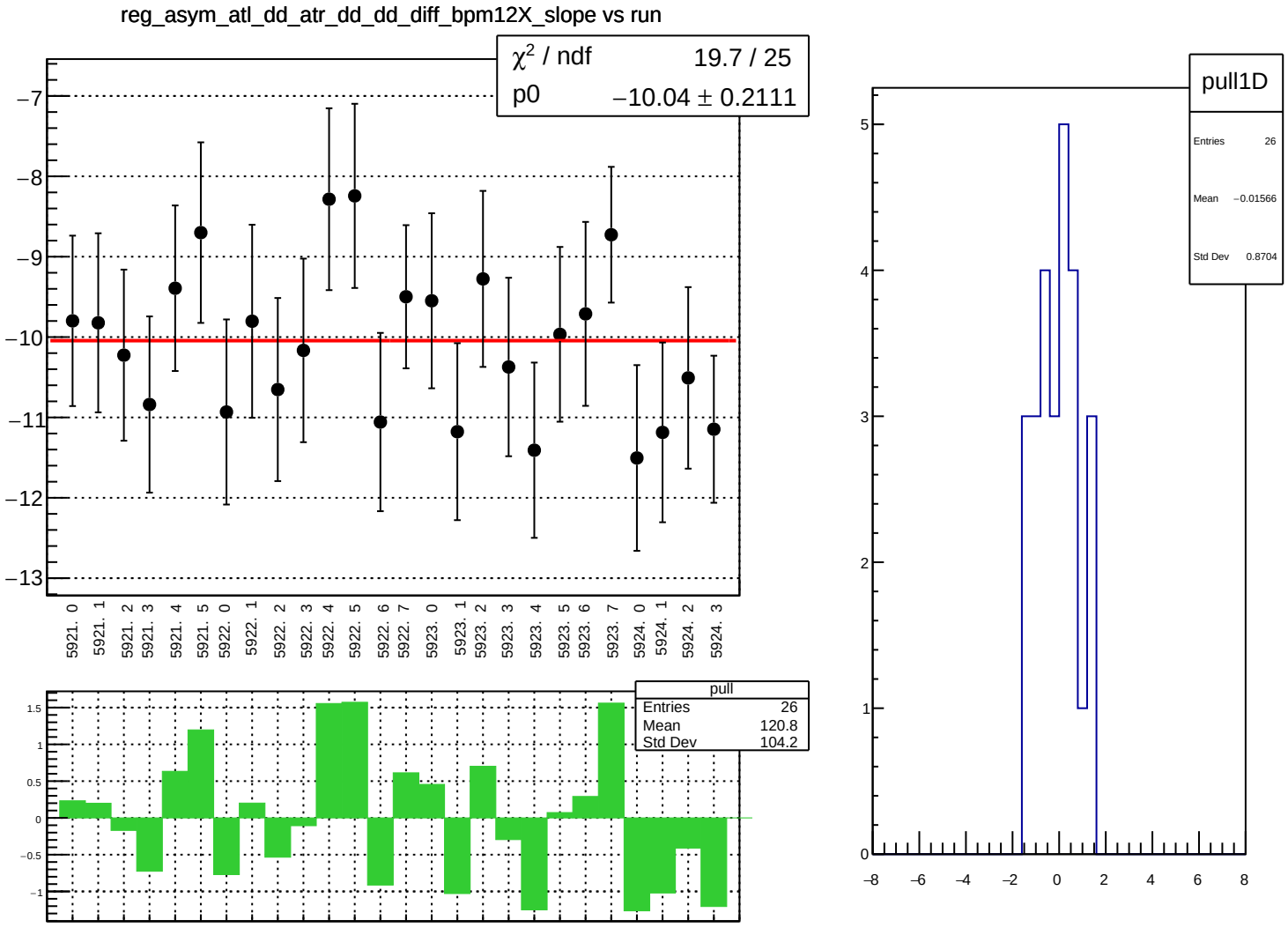



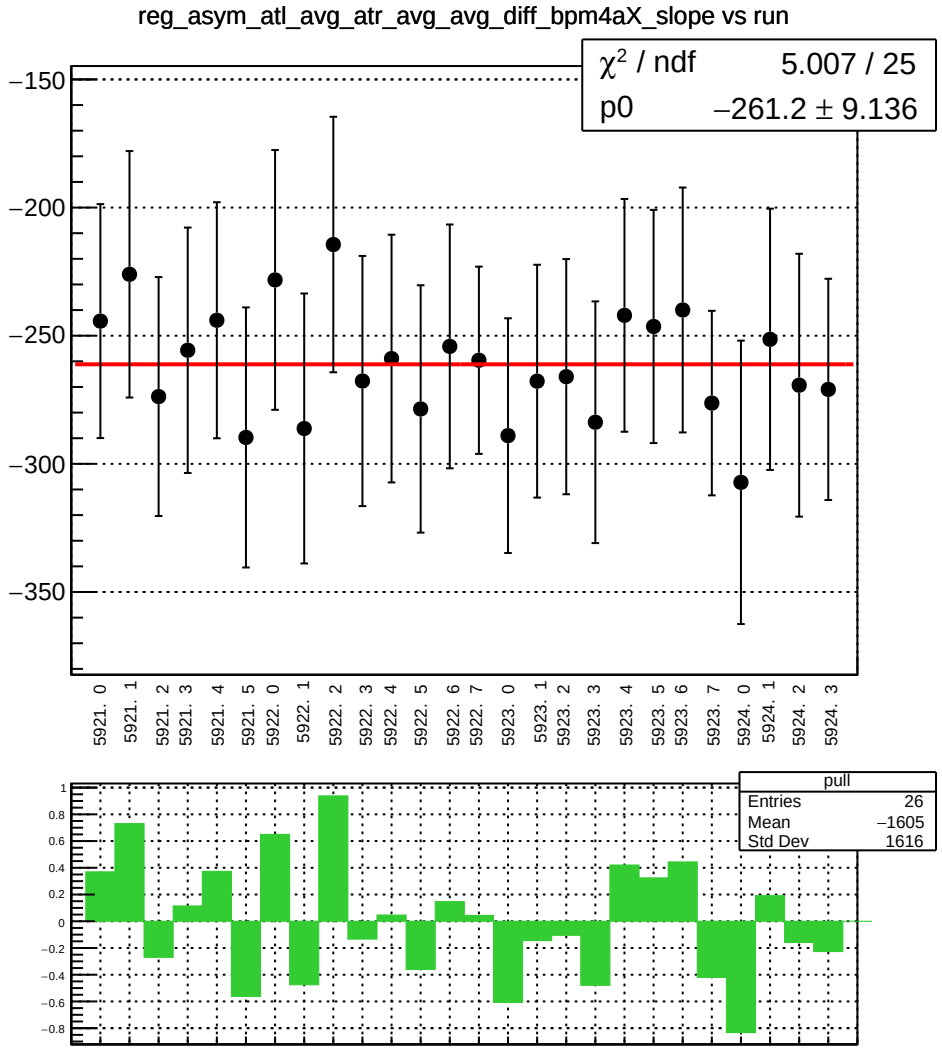



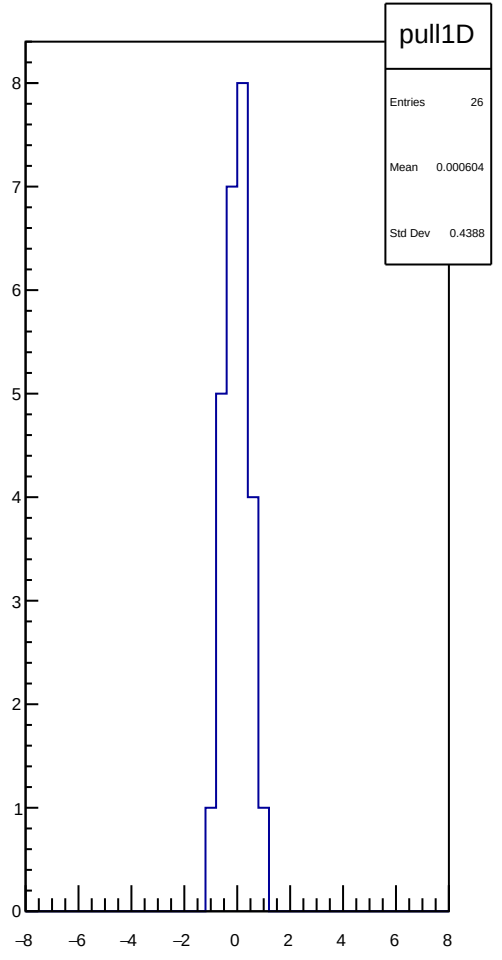

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.47 / 25
p0 85.15 ± 4.736
140
120
100
80
60
40
20
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −51.69
Std Dev 58.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

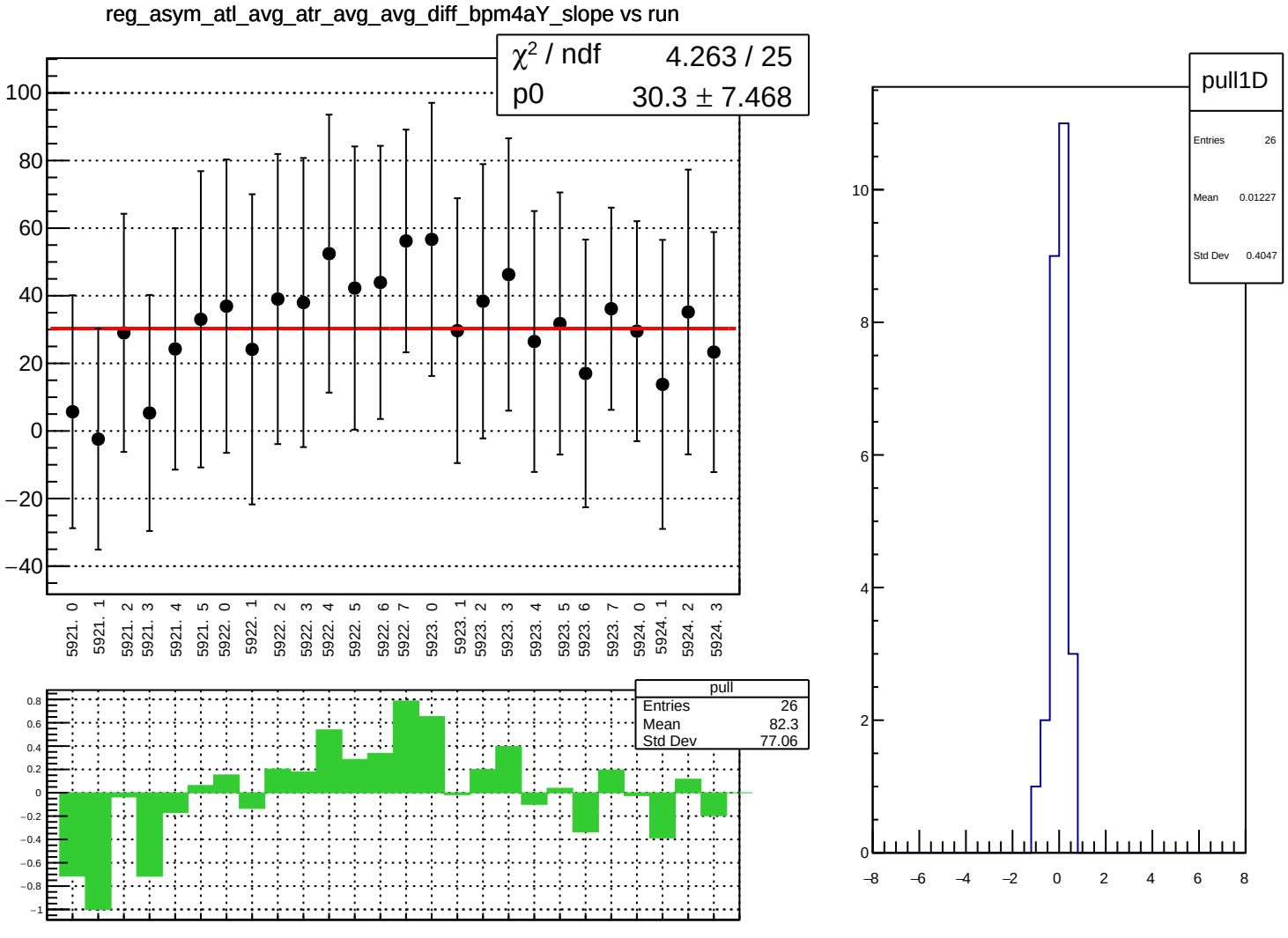

pull1D
Entries 26
Mean 0.006018
Std Dev 0.8652
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

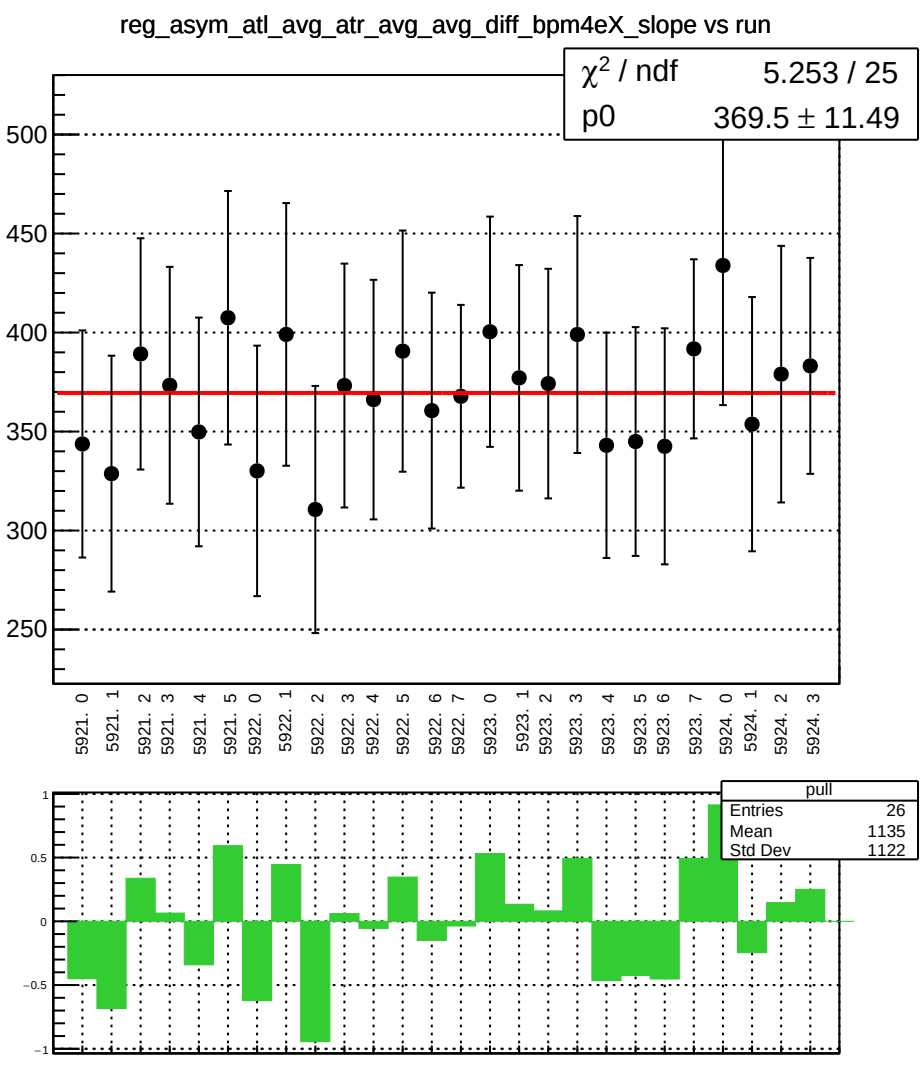

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.32 / 25
p0 9.11 ± 3.377
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 102.3
Std Dev 91.67
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.03359
Std Dev 0.9259
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

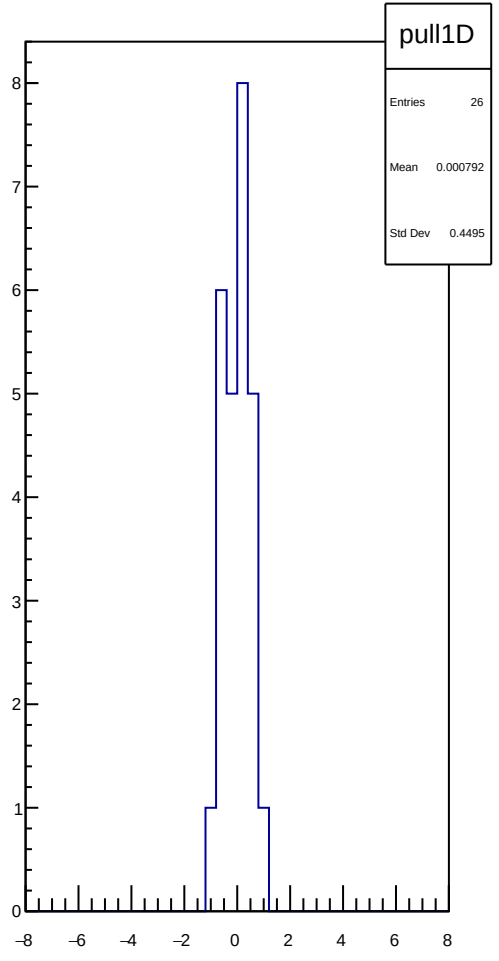

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 19.7 / 25
p0 −10.04 ± 0.2111
−7
−8
−9
−10
−11
−12
−13
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 120.8
Std Dev 104.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean −0.01566
Std Dev 0.8704
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

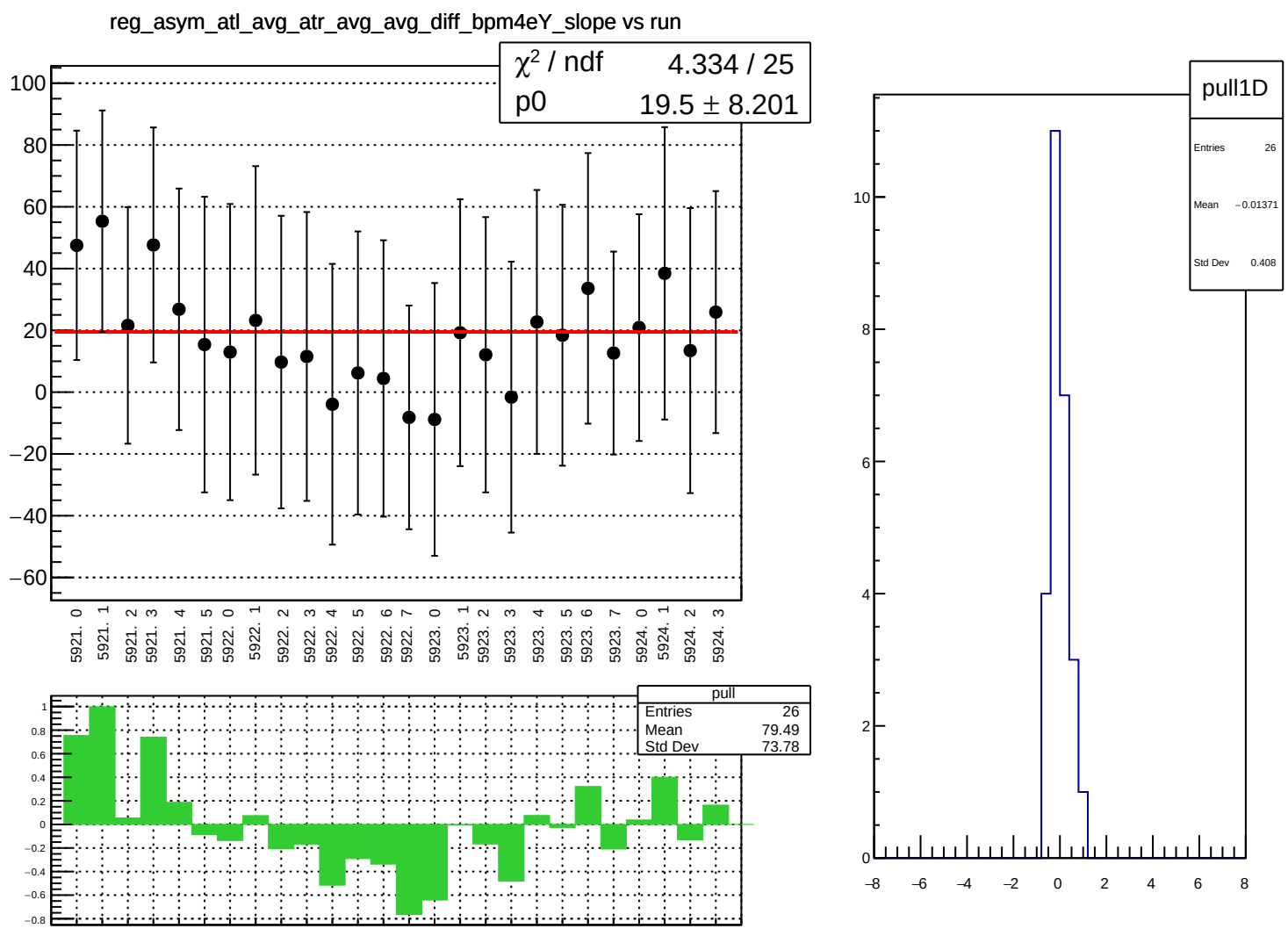

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.007 / 25
p0 −261.2 ± 9.136
−150
−200
−250
−300
−350
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −1605
Std Dev 1616
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

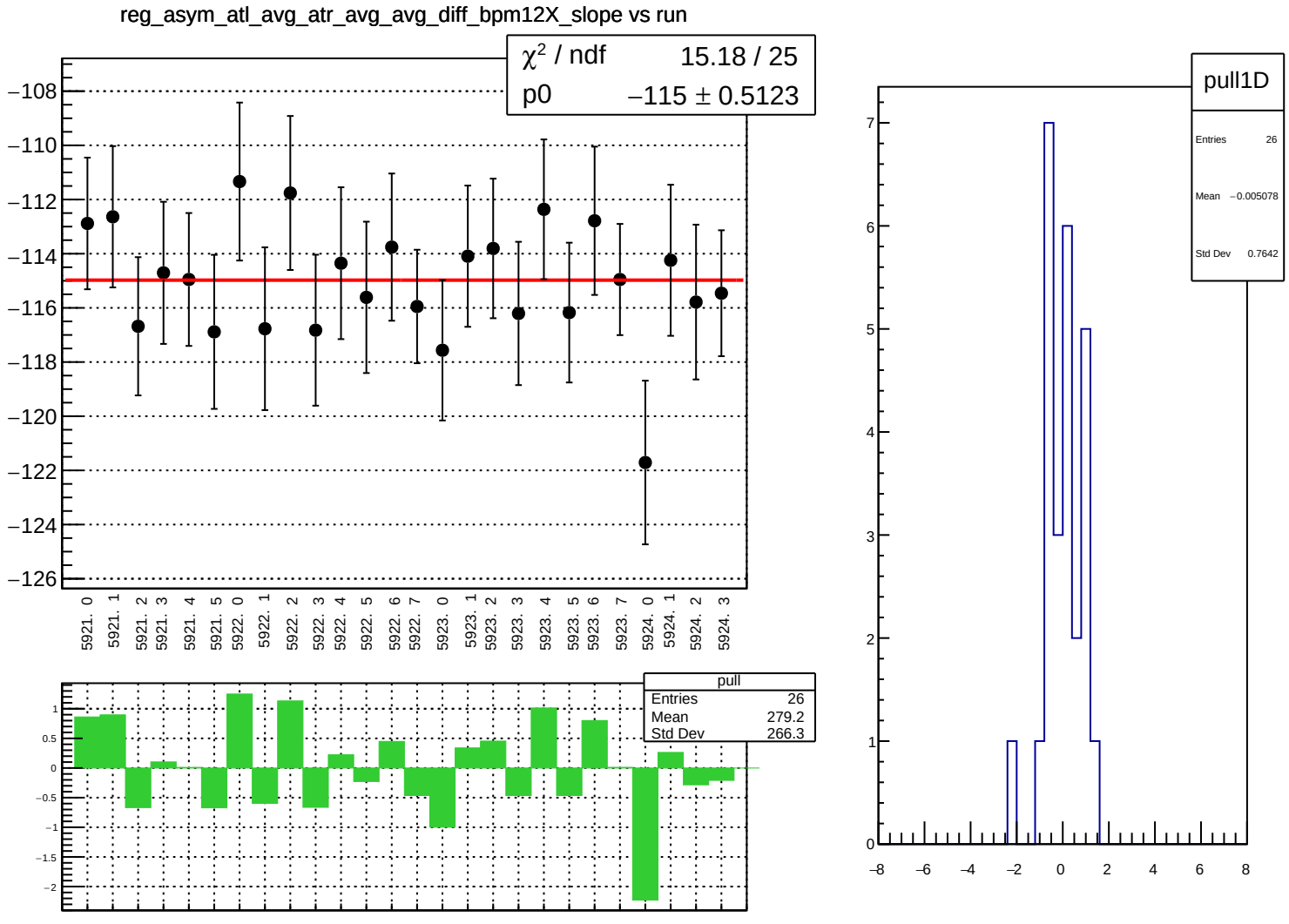

pull1D
Entries 26
Mean 0.000604
Std Dev 0.4388
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

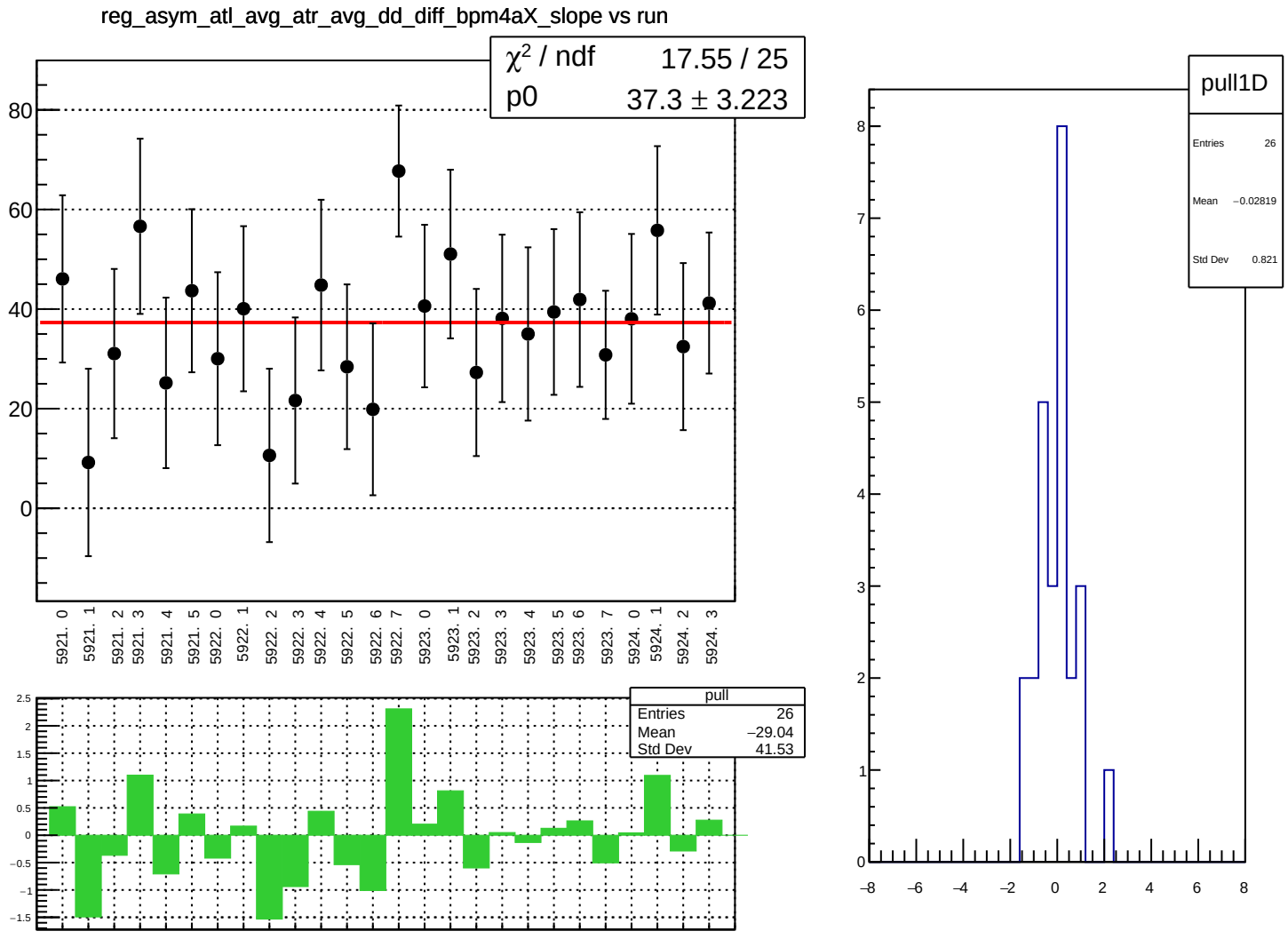

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.263 / 25
p0 30.3 ± 7.468
100
80
60
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 82.3
Std Dev 77.06
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean 0.01227
Std Dev 0.4047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

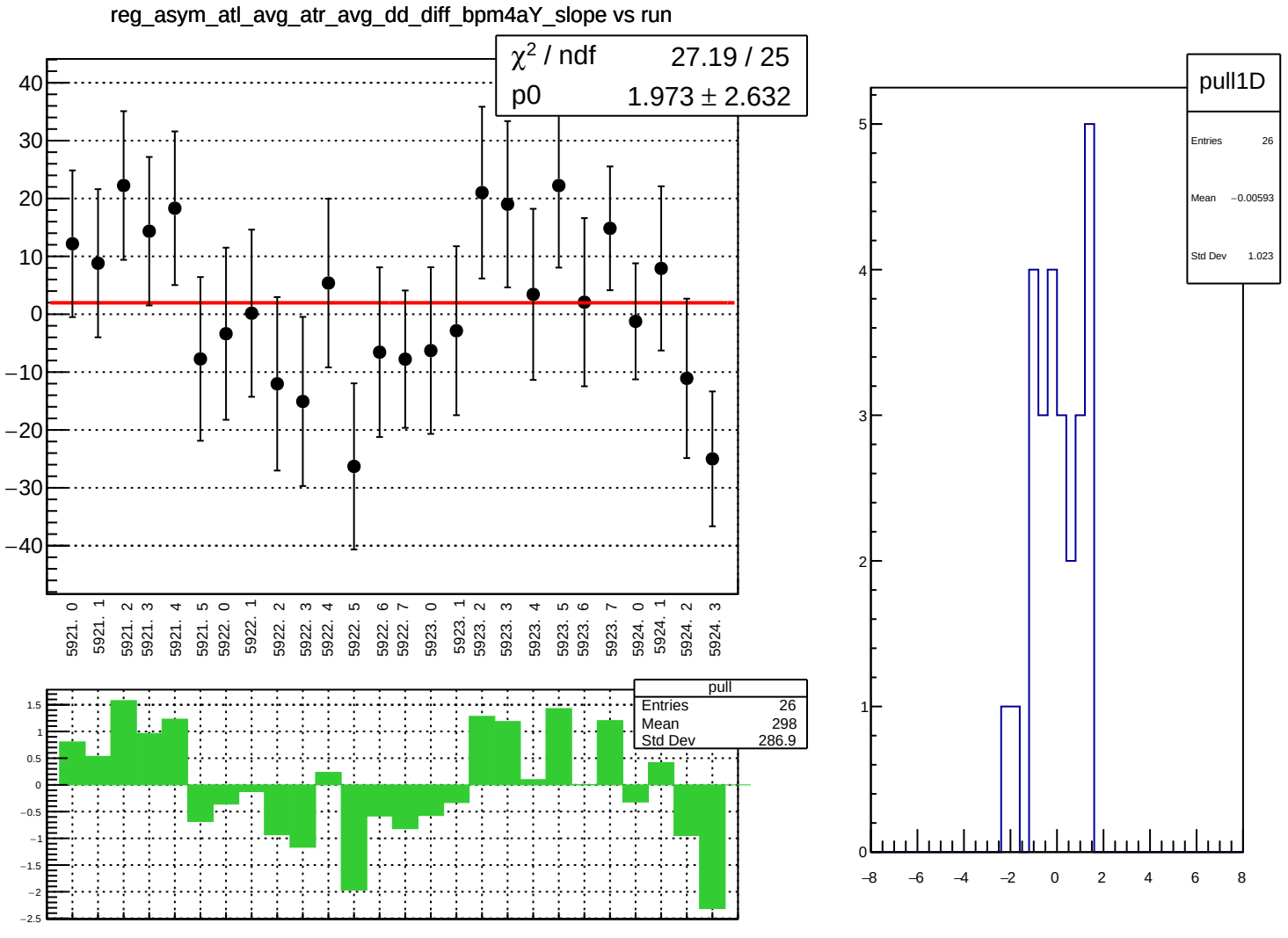

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.253 / 25
p0 369.5 ± 11.49
500
450
400
350
300
250
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 1135
Std Dev 1122
1
0.5
0
−0.5
−1

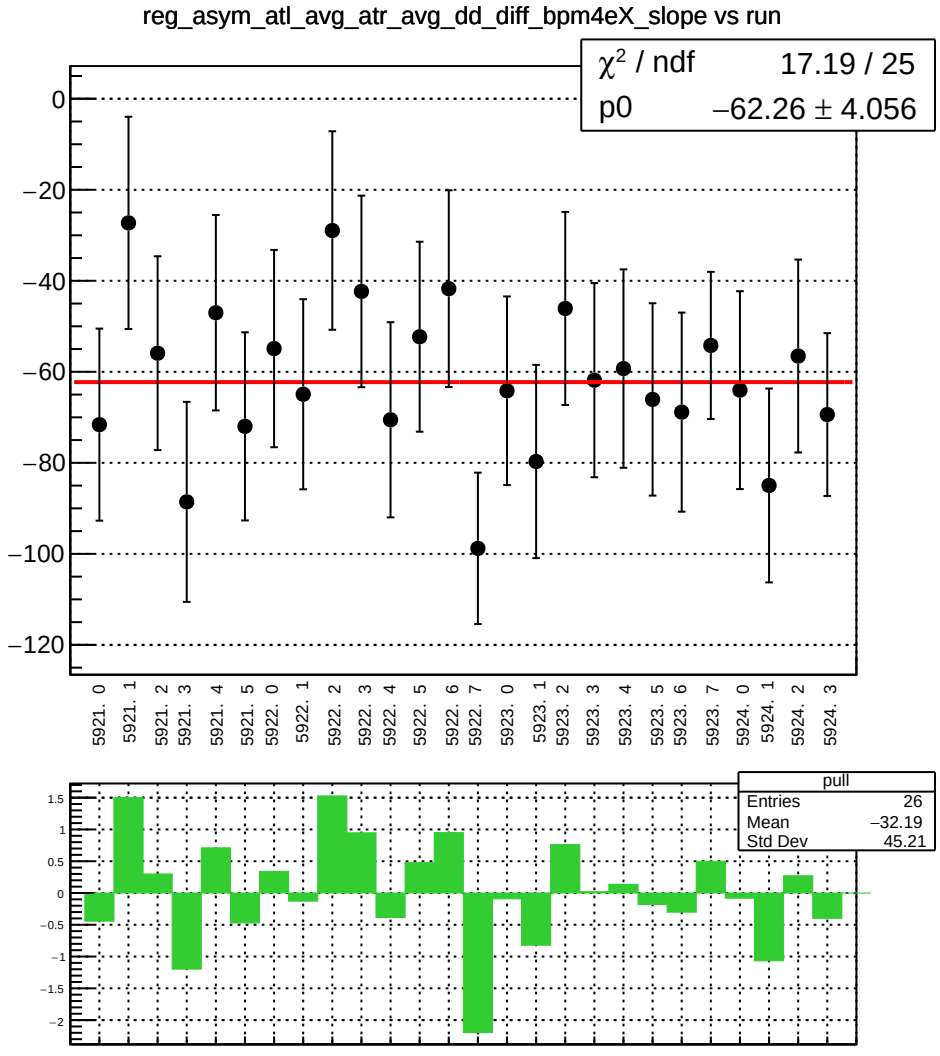

pull1D
Entries 26
Mean 0.000792
Std Dev 0.4495
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

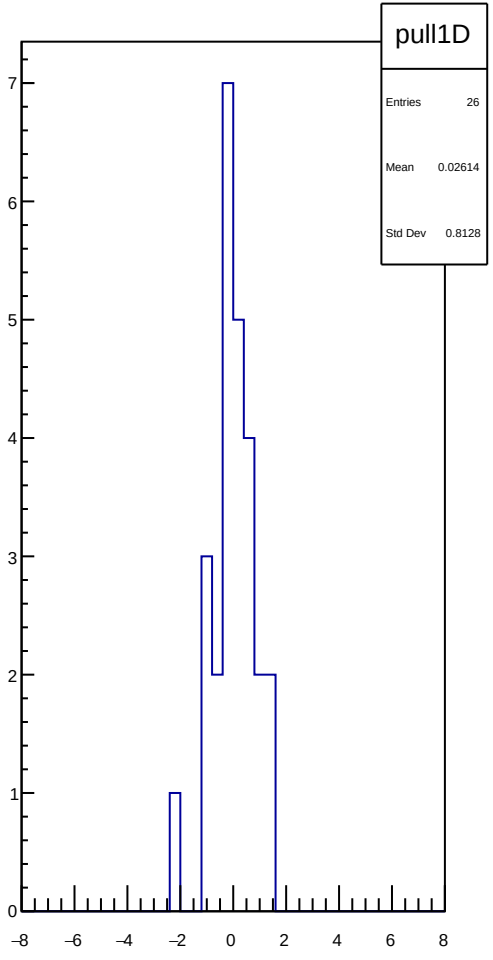

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.334 / 25
p0 19.5 ± 8.201
100
80
60
40
20
0
−20
−40
−60
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 79.49
Std Dev 73.78
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean −0.01371
Std Dev 0.408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

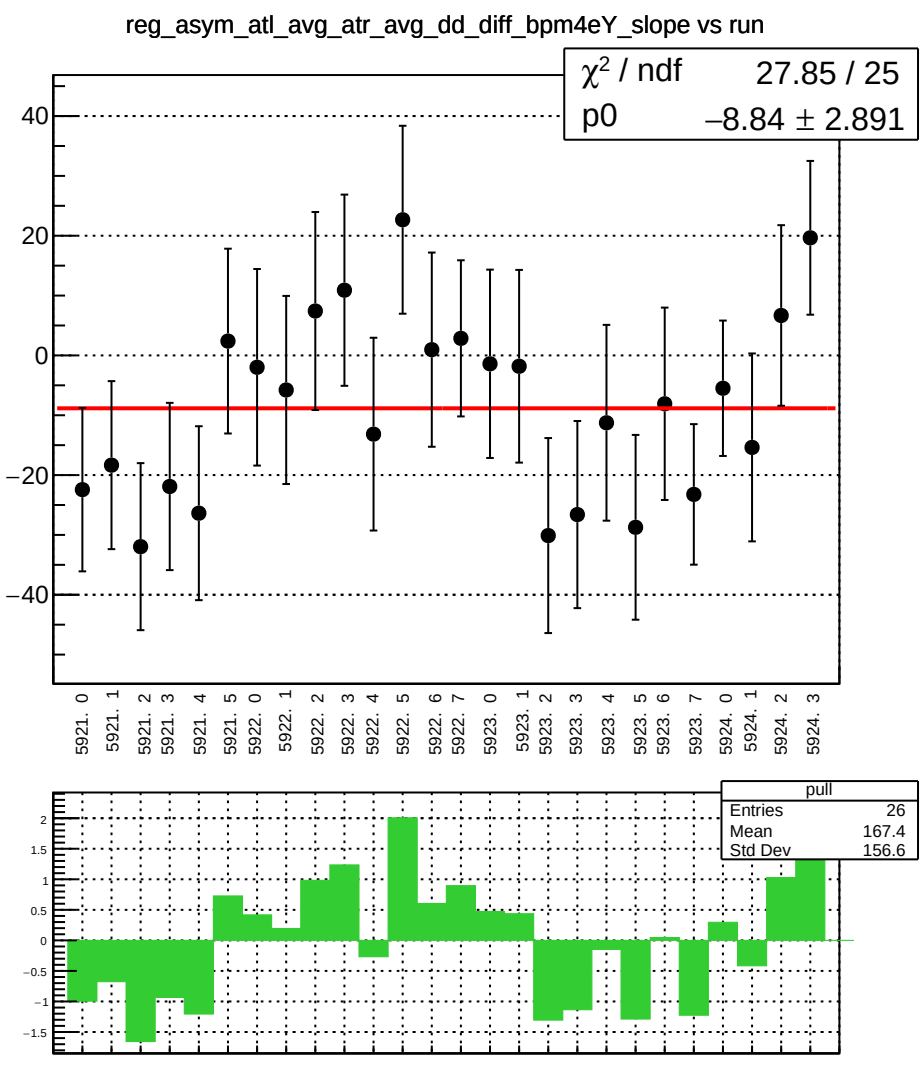

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 15.18 / 25
p0 −115 ± 0.5123
−108
−110
−112
−114
−116
−118
−120
−122
−124
−126
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 279.2
Std Dev 266.3
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.005078
Std Dev 0.7642
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

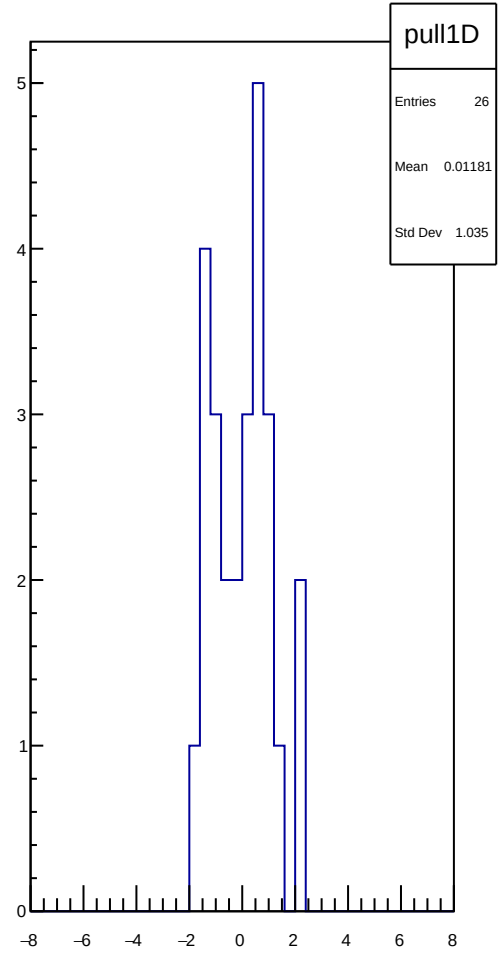

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.55 / 25
p0 37.3 ± 3.223
80
60
40
20
0
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −29.04
Std Dev 41.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.02819
Std Dev 0.821
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

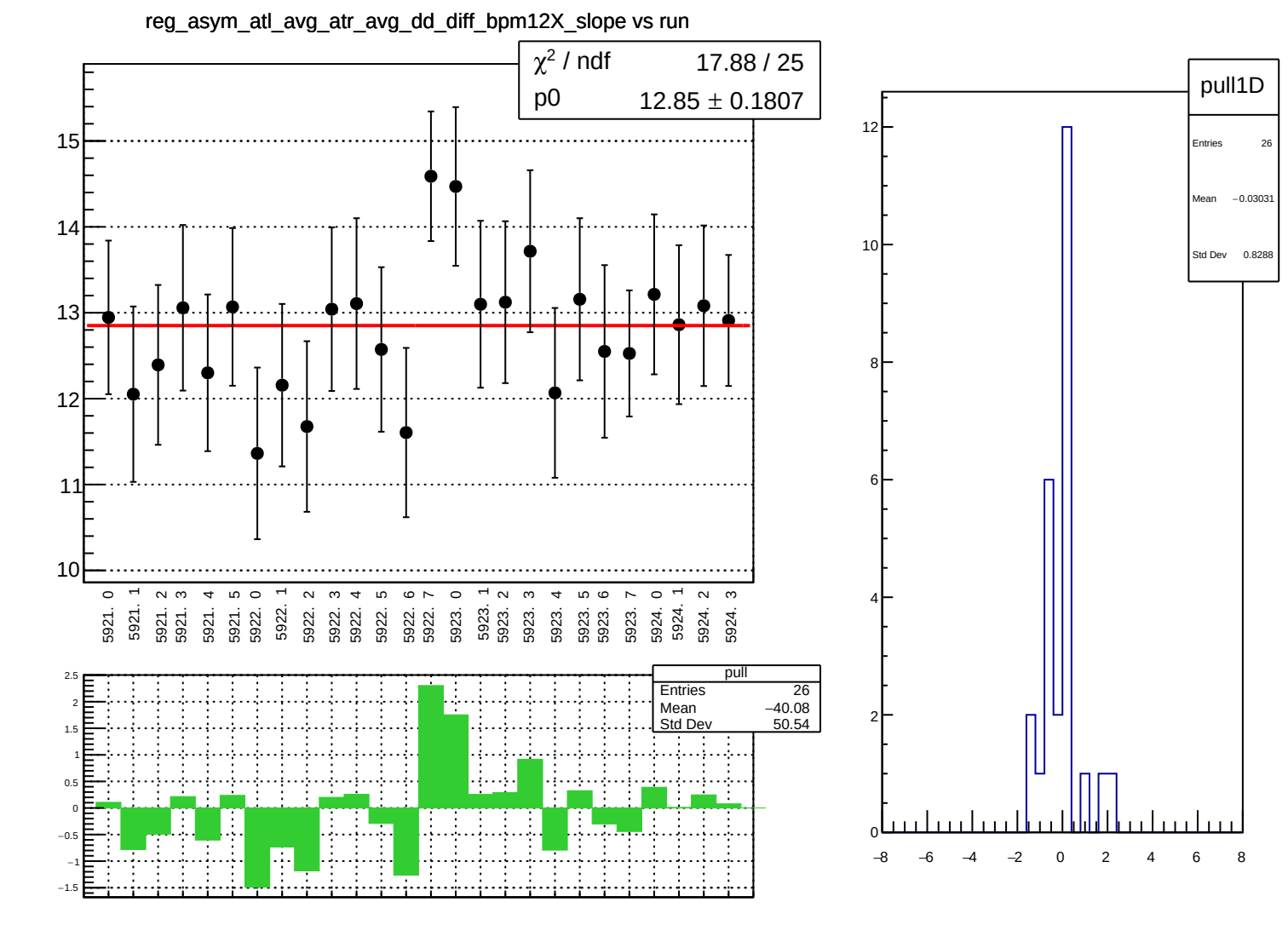

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.19 / 25
p0 1.973 ± 2.632
pull
Entries 26
Mean 298
Std Dev 286.9
pull1D
Entries 26
Mean −0.00593
Std Dev 1.023

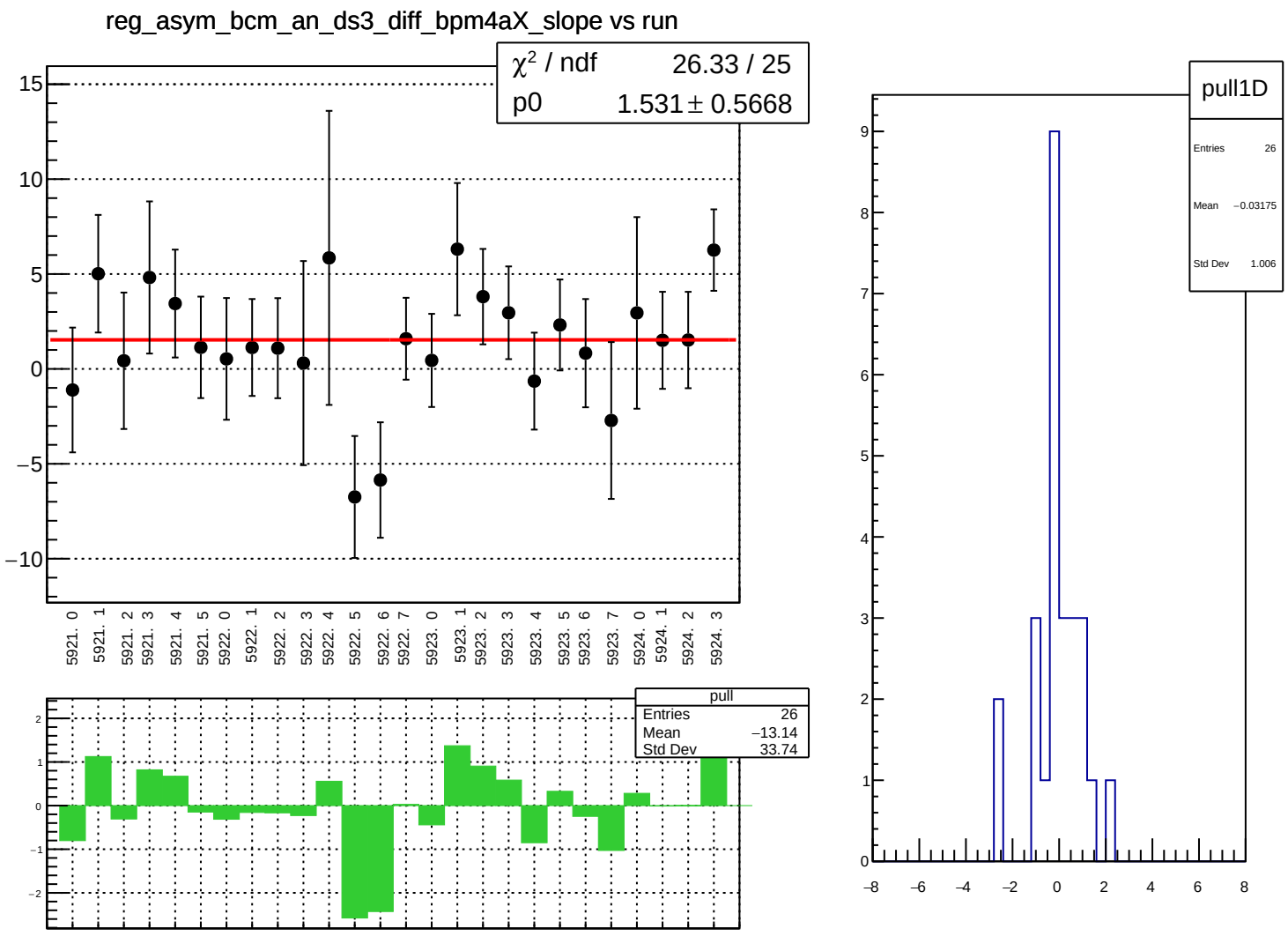

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.19 / 25
p0 −62.26 ± 4.056
0
−20
−40
−60
−80
−100
−120
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −32.19
Std Dev 45.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

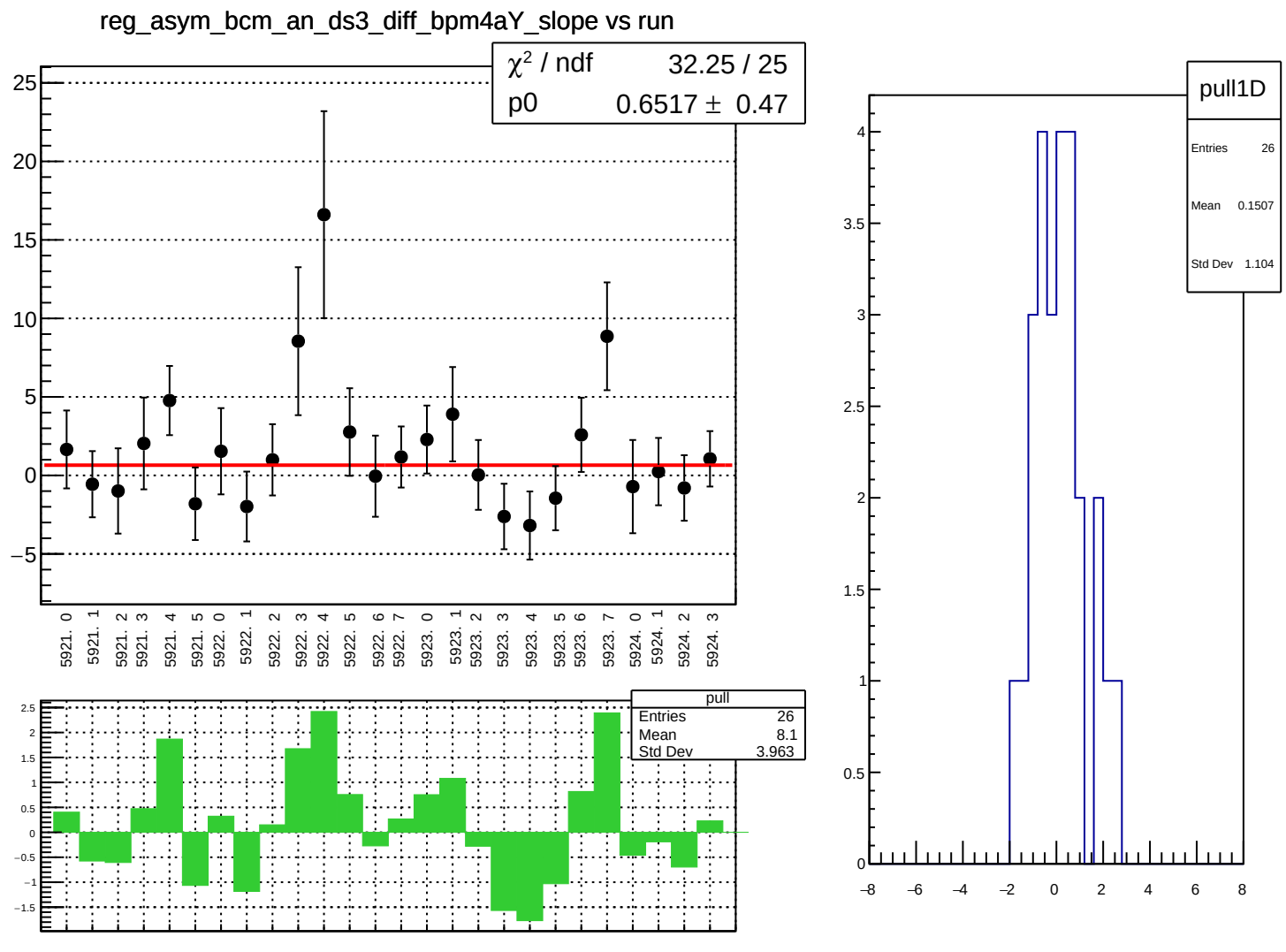

pull1D
Entries 26
Mean 0.02614
Std Dev 0.8128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

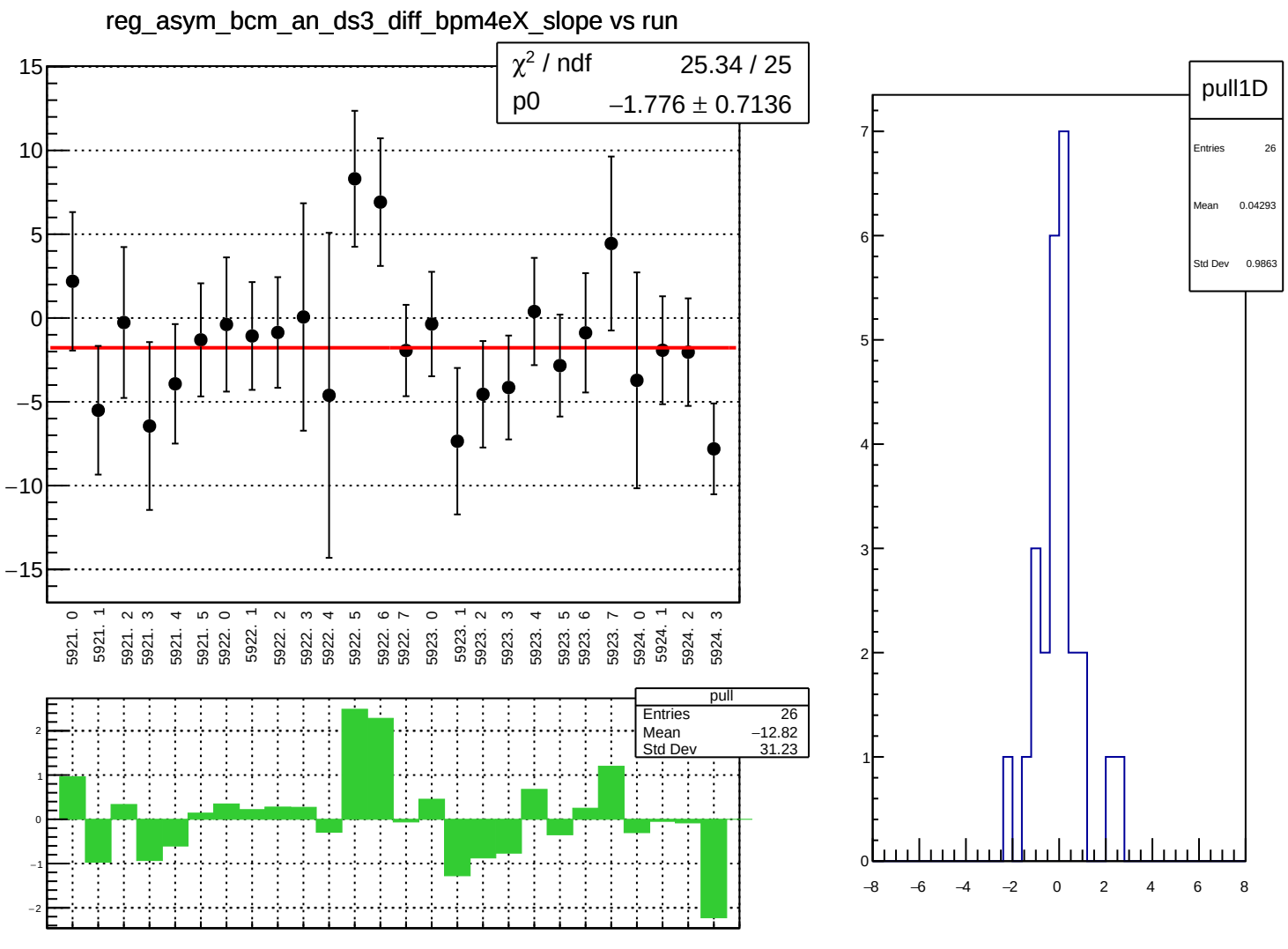

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.85 / 25
p0 −8.84 ± 2.891
40
20
0
−20
−40
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 167.4
Std Dev 156.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

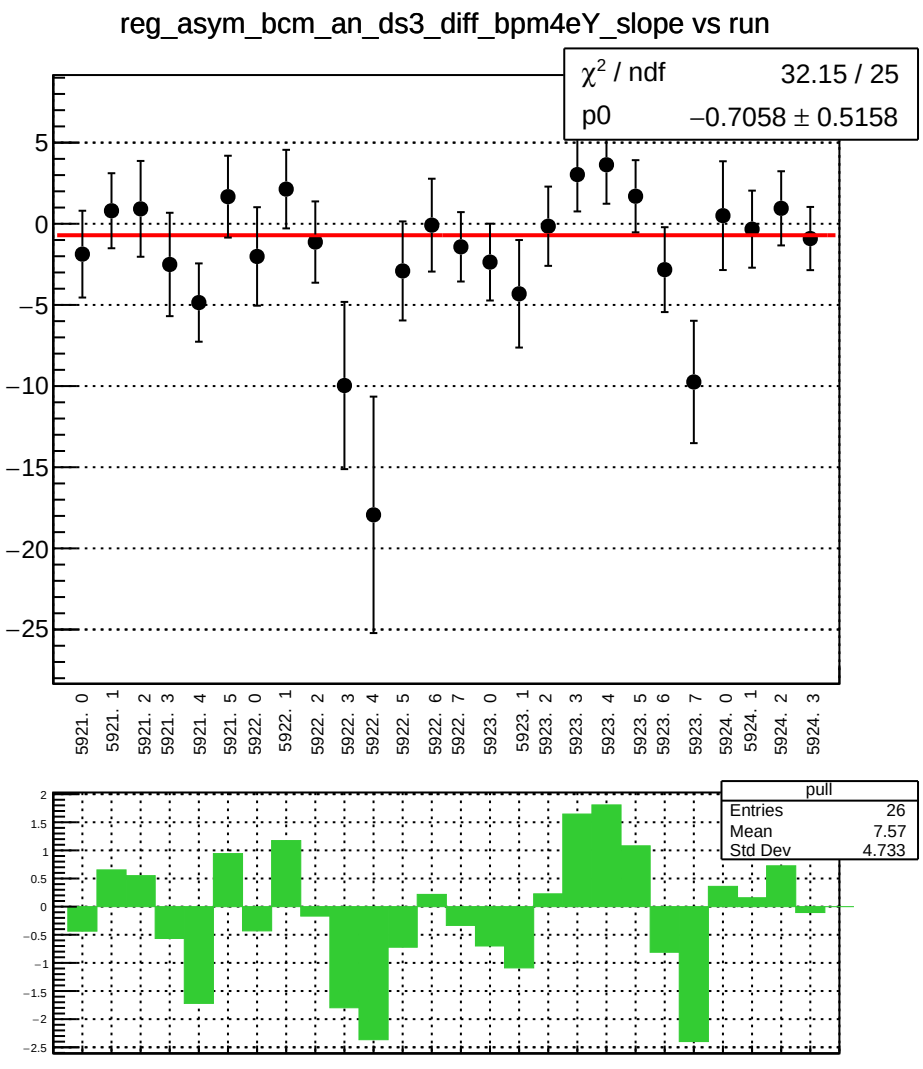

pull1D
Entries 26
Mean 0.01181
Std Dev 1.035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

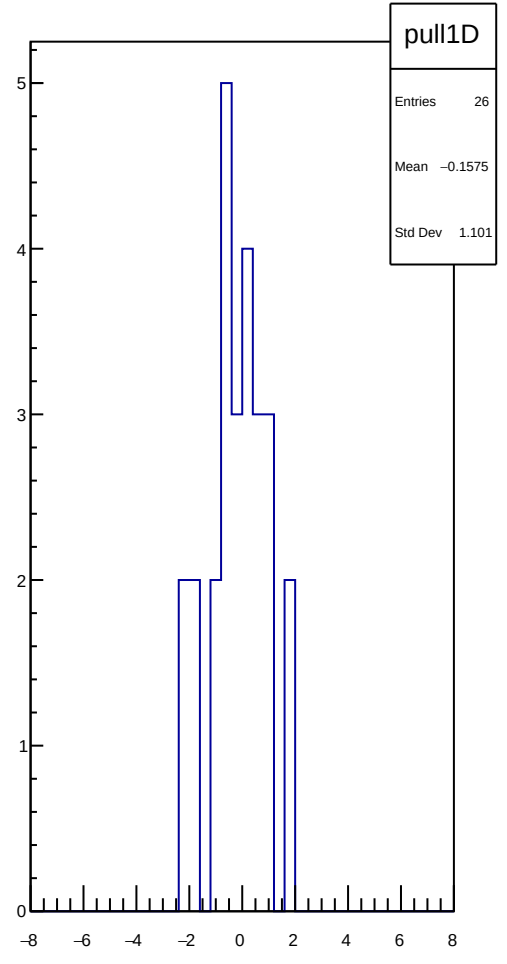

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 17.88 / 25
p0 12.85 ± 0.1807
pull
Entries 26
Mean −40.08
Std Dev 50.54
pull1D
Entries 26
Mean −0.03031
Std Dev 0.8288

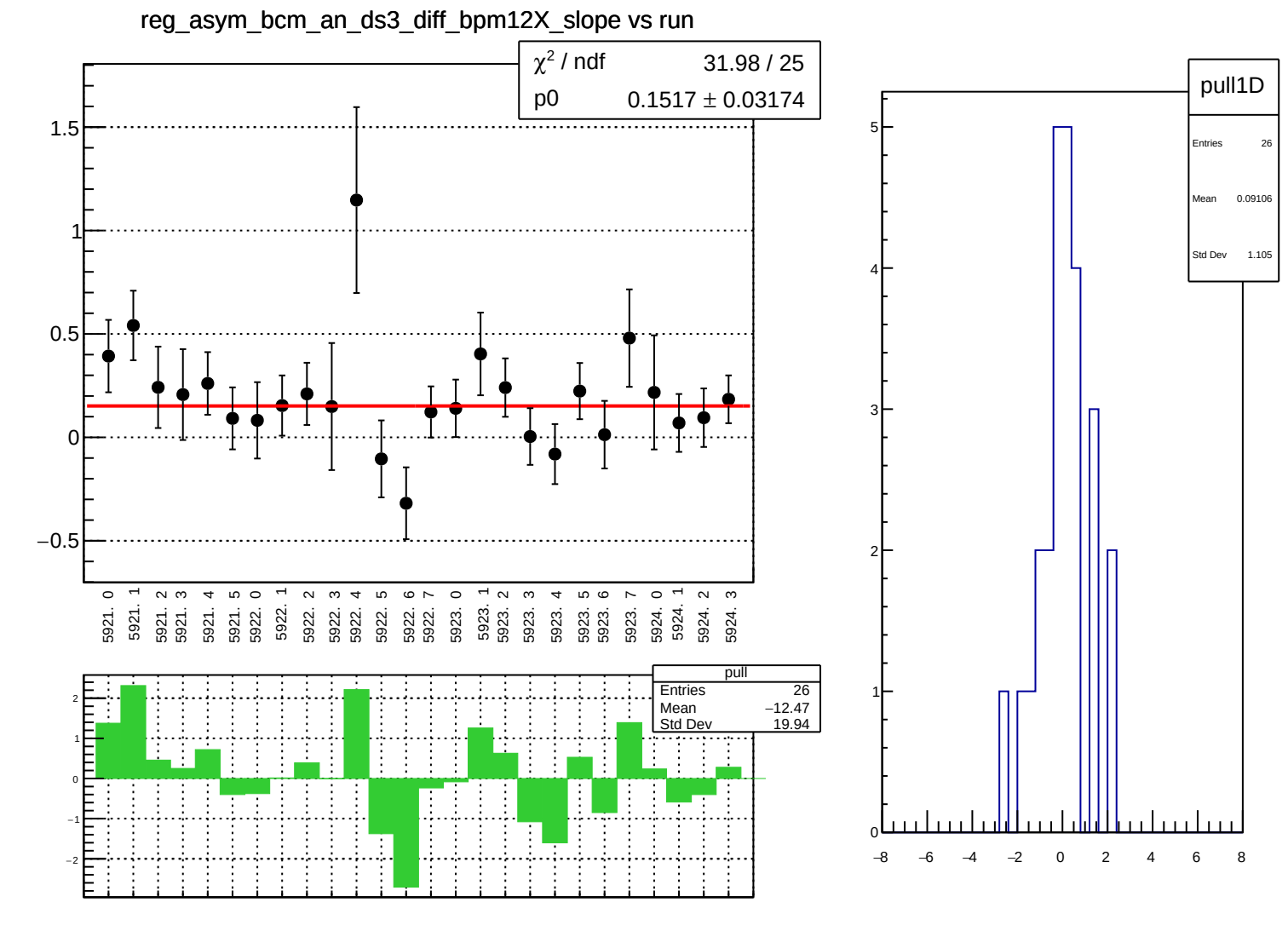

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 26.33 / 25
p0 1.531 ± 0.5668
15
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −13.14
Std Dev 33.74
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.03175
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

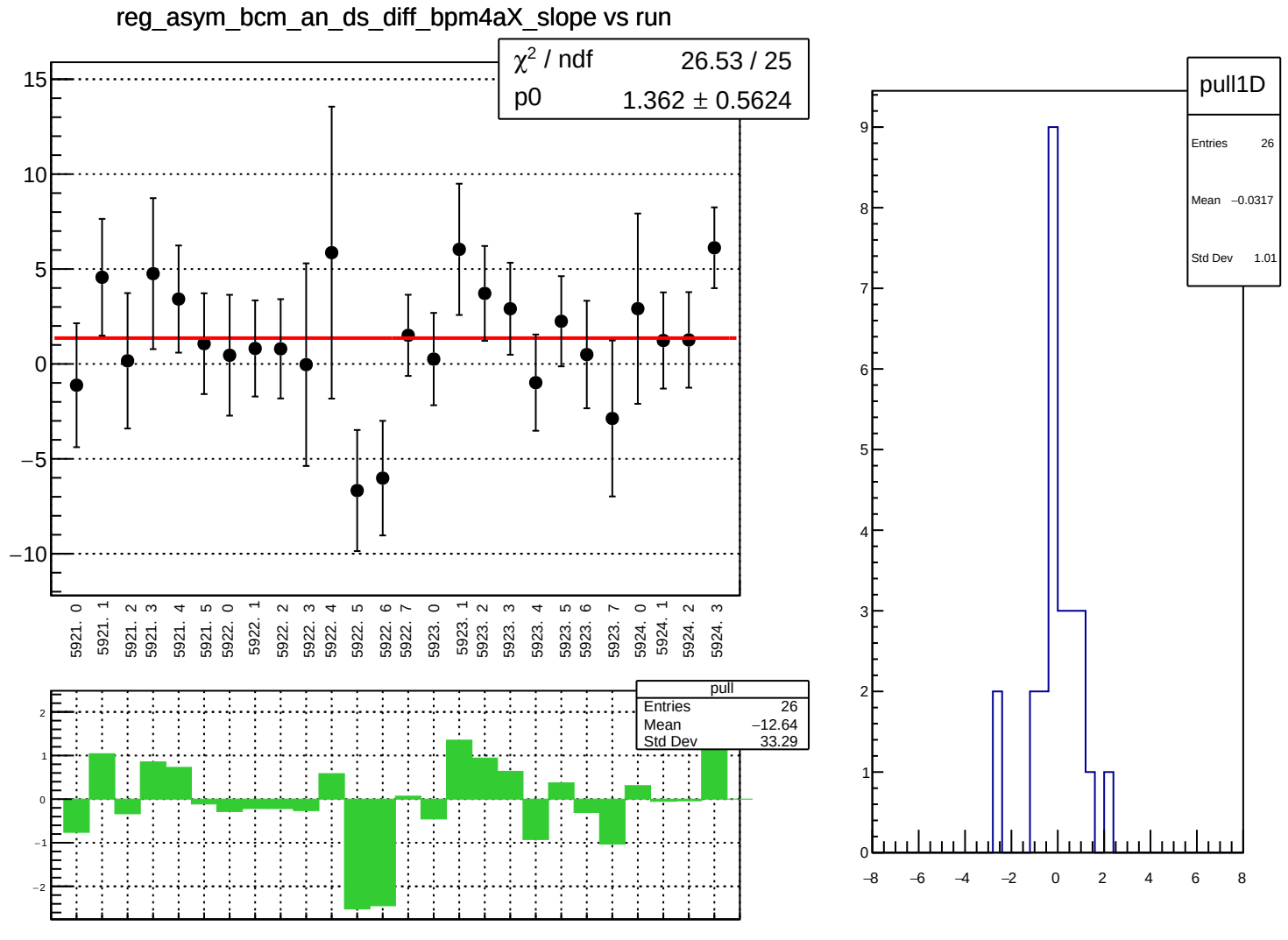

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 32.25 / 25
p0 0.6517 ± 0.47
25
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.1
Std Dev 3.963
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.1507
Std Dev 1.104
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

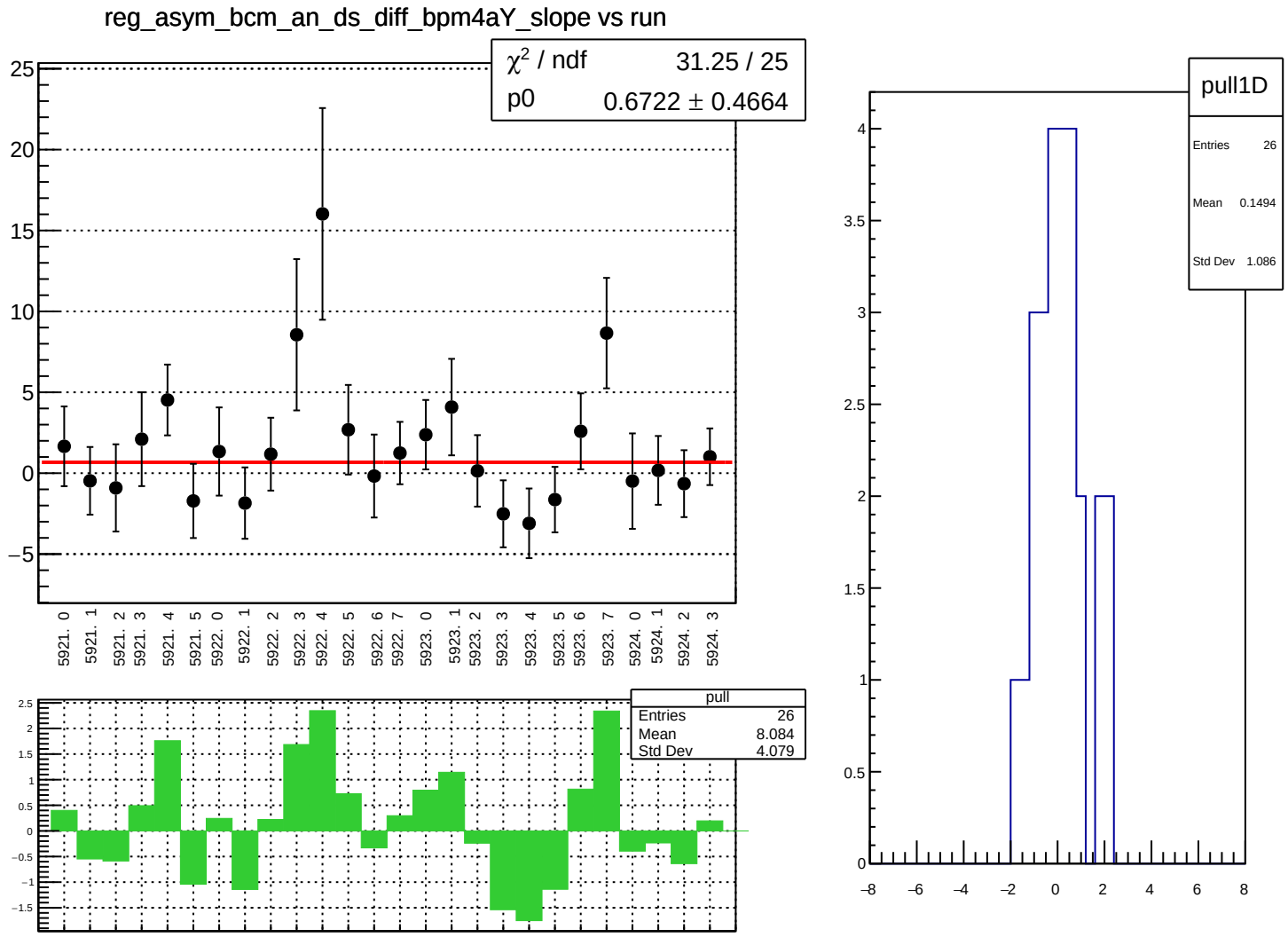

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 25.34 / 25
p0 −1.776 ± 0.7136
15
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.82
Std Dev 31.23
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.04293
Std Dev 0.9863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

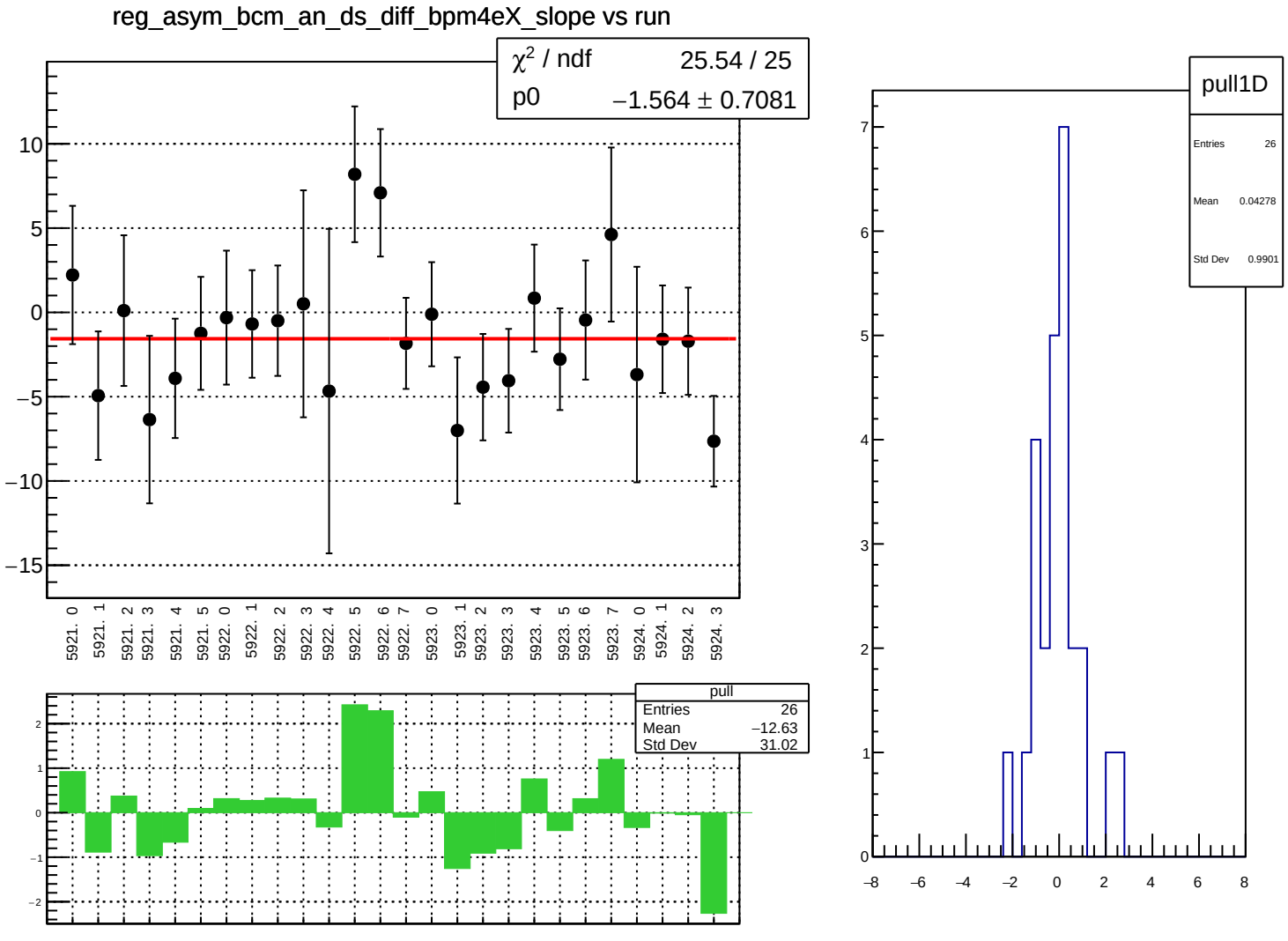

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 32.15 / 25
p0 −0.7058 ± 0.5158
5
0
−5
−10
−15
−20
−25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 7.57
Std Dev 4.733
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

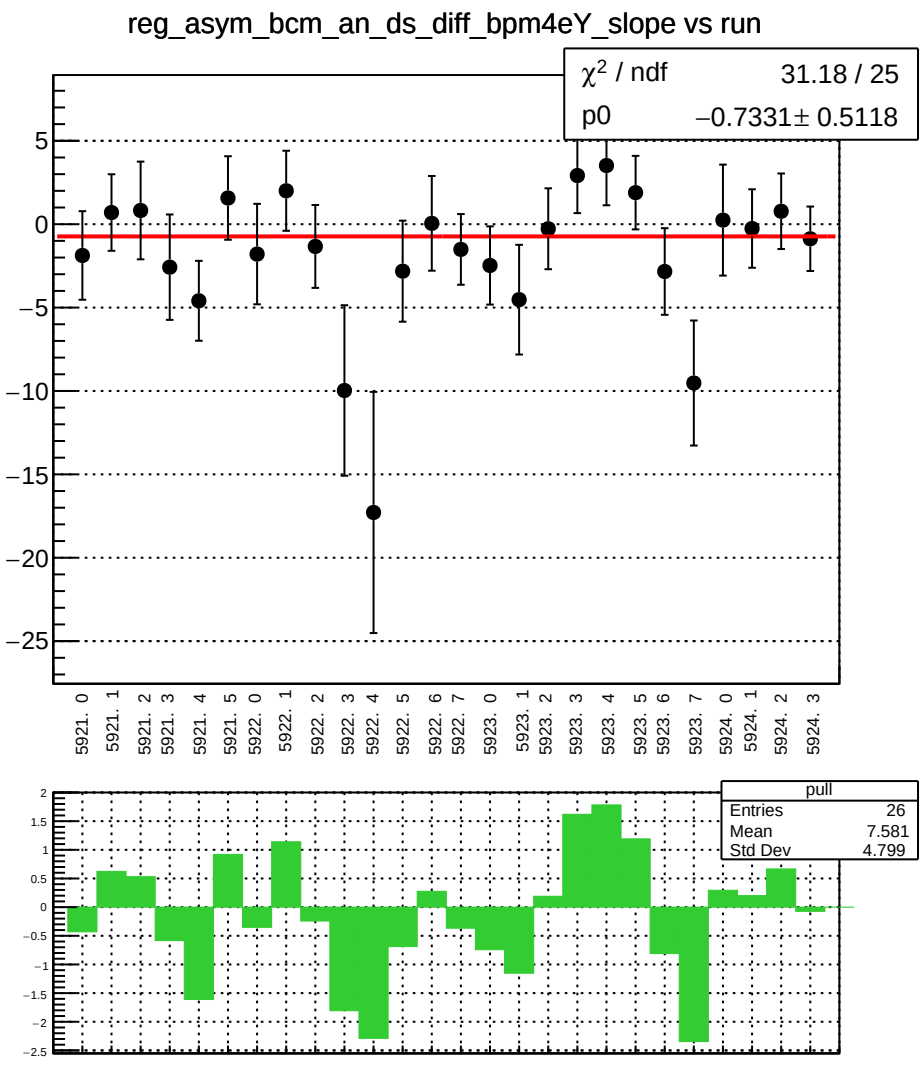

pull1D
Entries 26
Mean −0.1575
Std Dev 1.101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

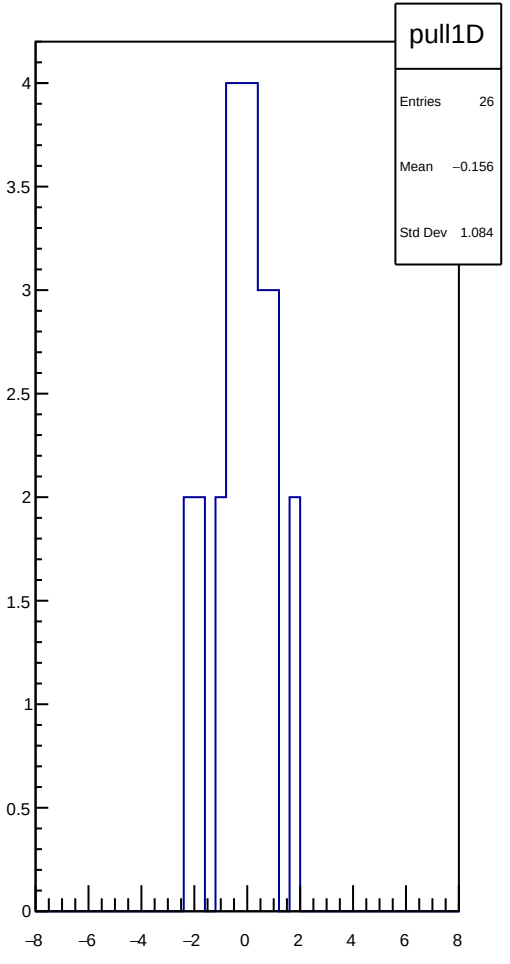

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 31.98 / 25
p0 0.1517 ± 0.03174
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.47
Std Dev 19.94
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.09106
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

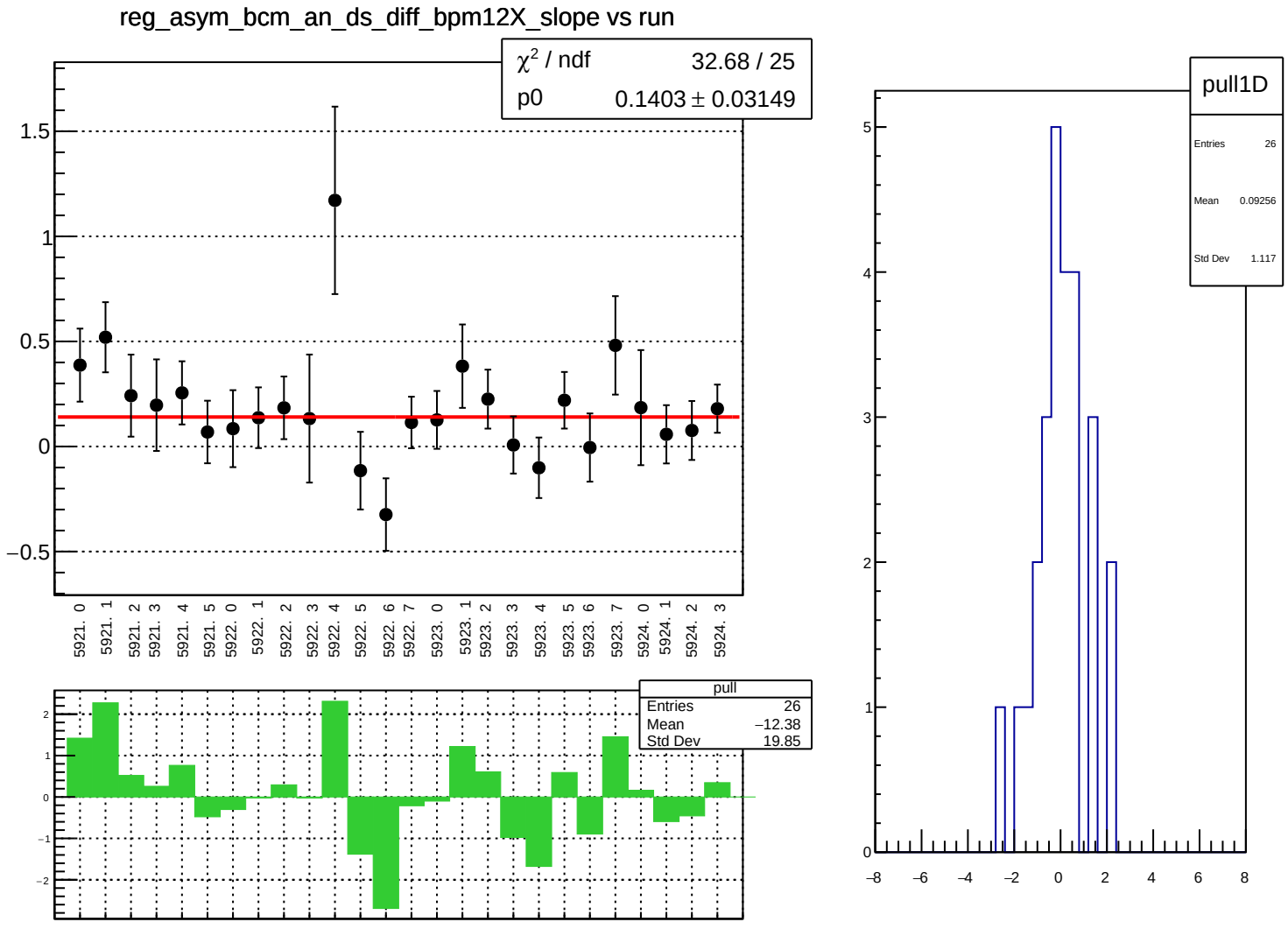

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 26.53 / 25
p0 1.362 ± 0.5624
15
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.64
Std Dev 33.29
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.0317
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

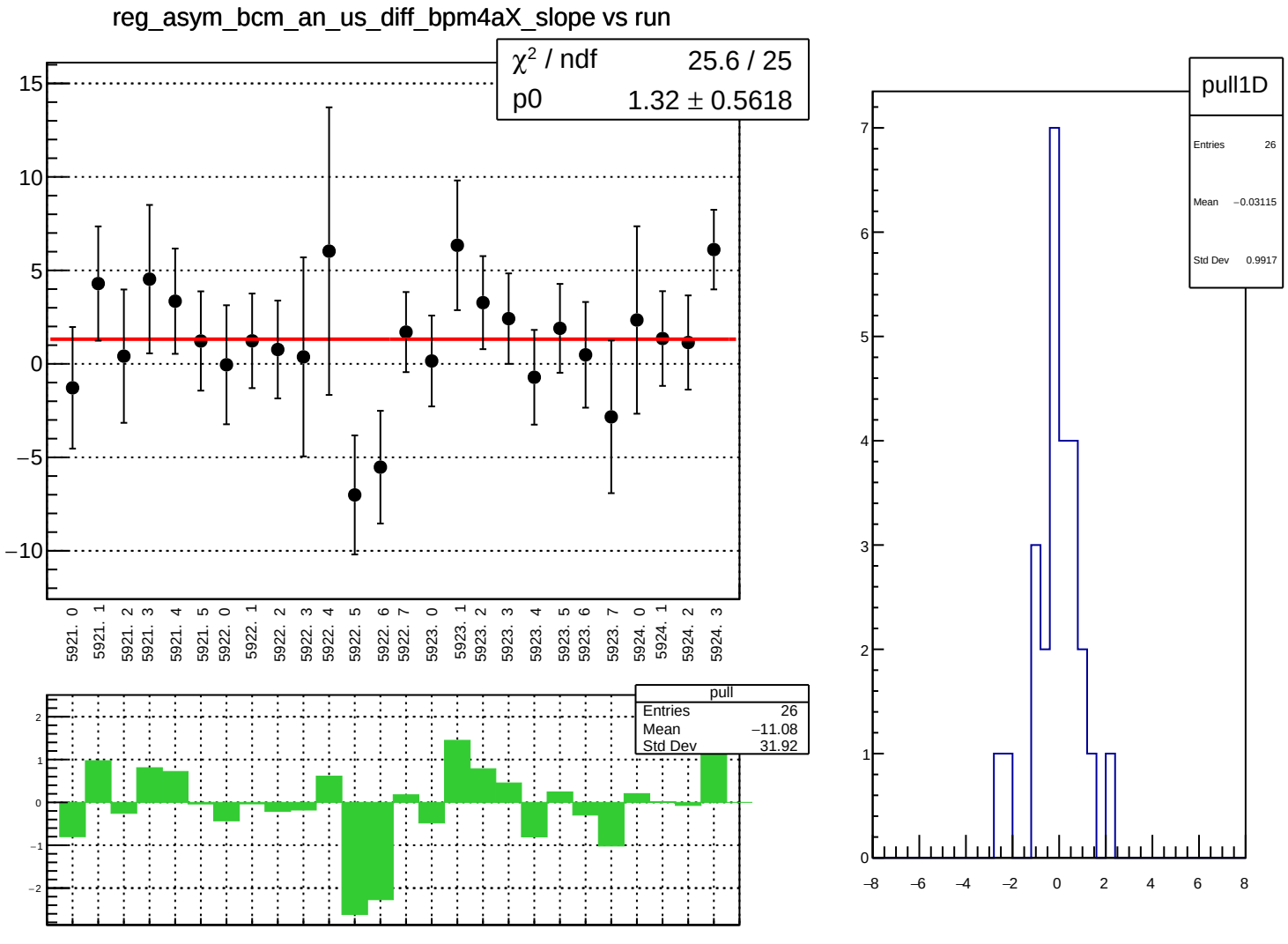

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 31.25 / 25
p0 0.6722 ± 0.4664
pull
Entries 26
Mean 8.084
Std Dev 4.079
pull1D
Entries 26
Mean 0.1494
Std Dev 1.086

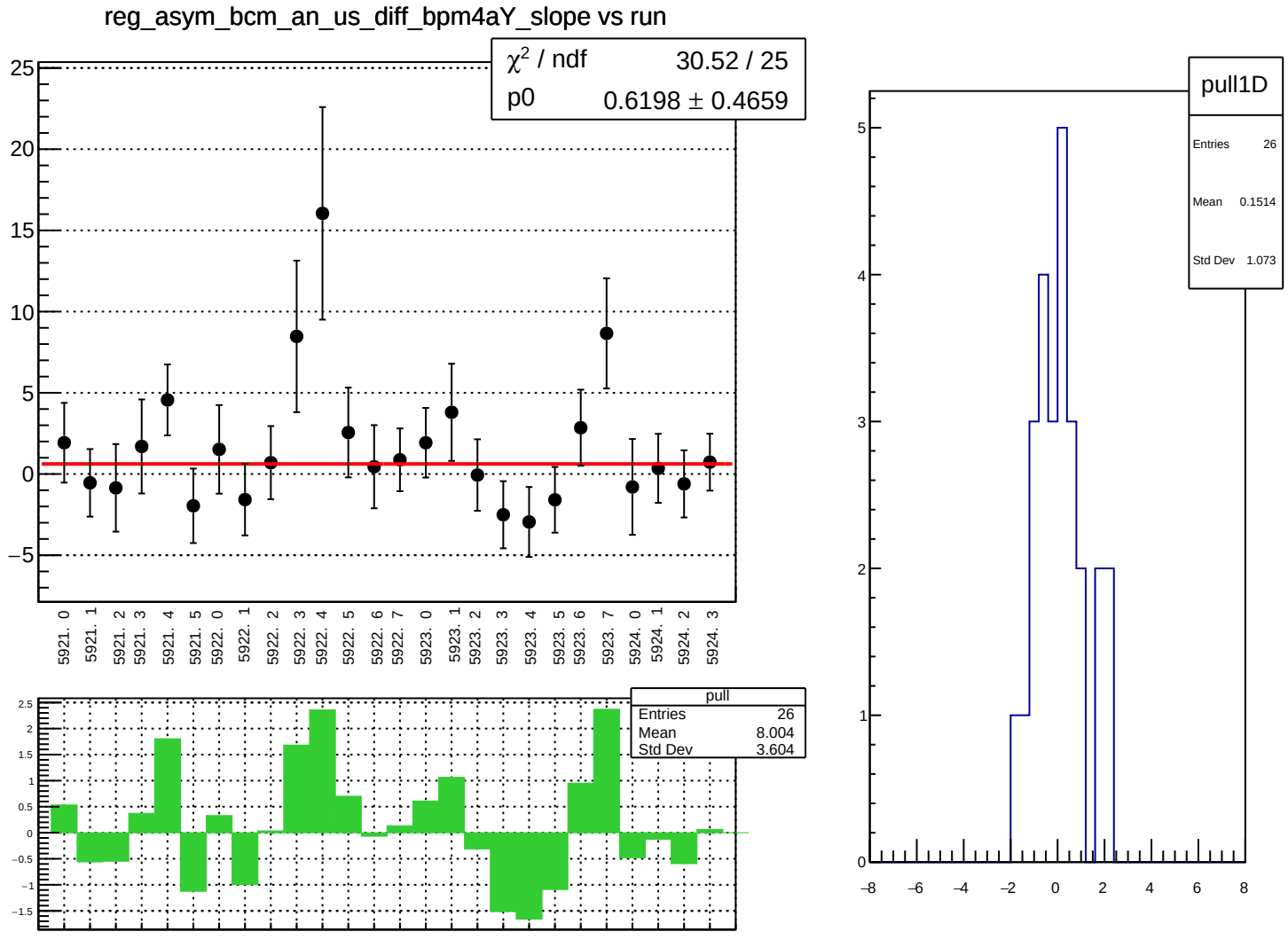

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 25.54 / 25
p0 −1.564 ± 0.7081
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.63
Std Dev 31.02
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.04278
Std Dev 0.9901
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

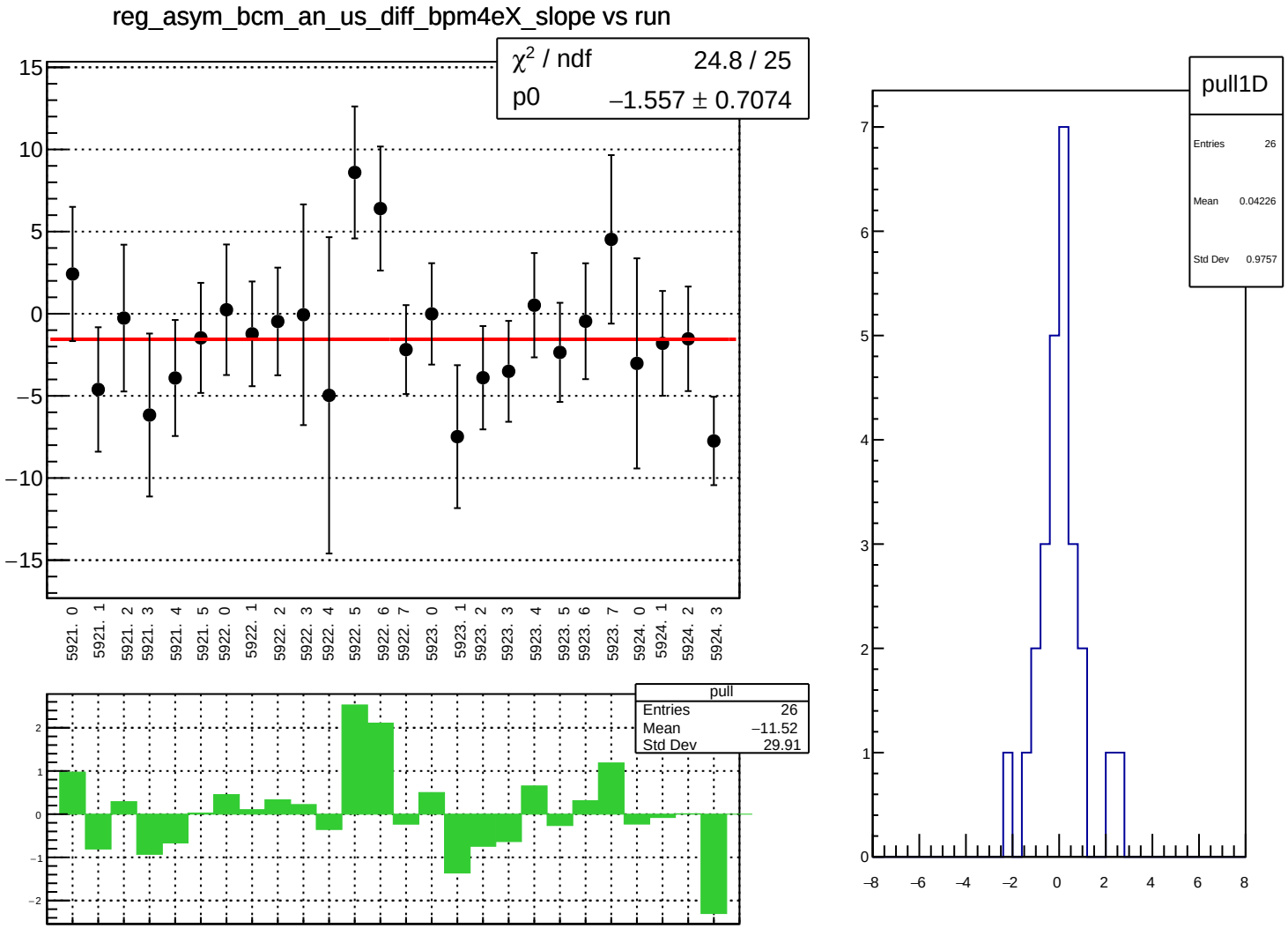

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 31.18 / 25
p0 −0.7331± 0.5118
5
0
−5
−10
−15
−20
−25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 7.581
Std Dev 4.799
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

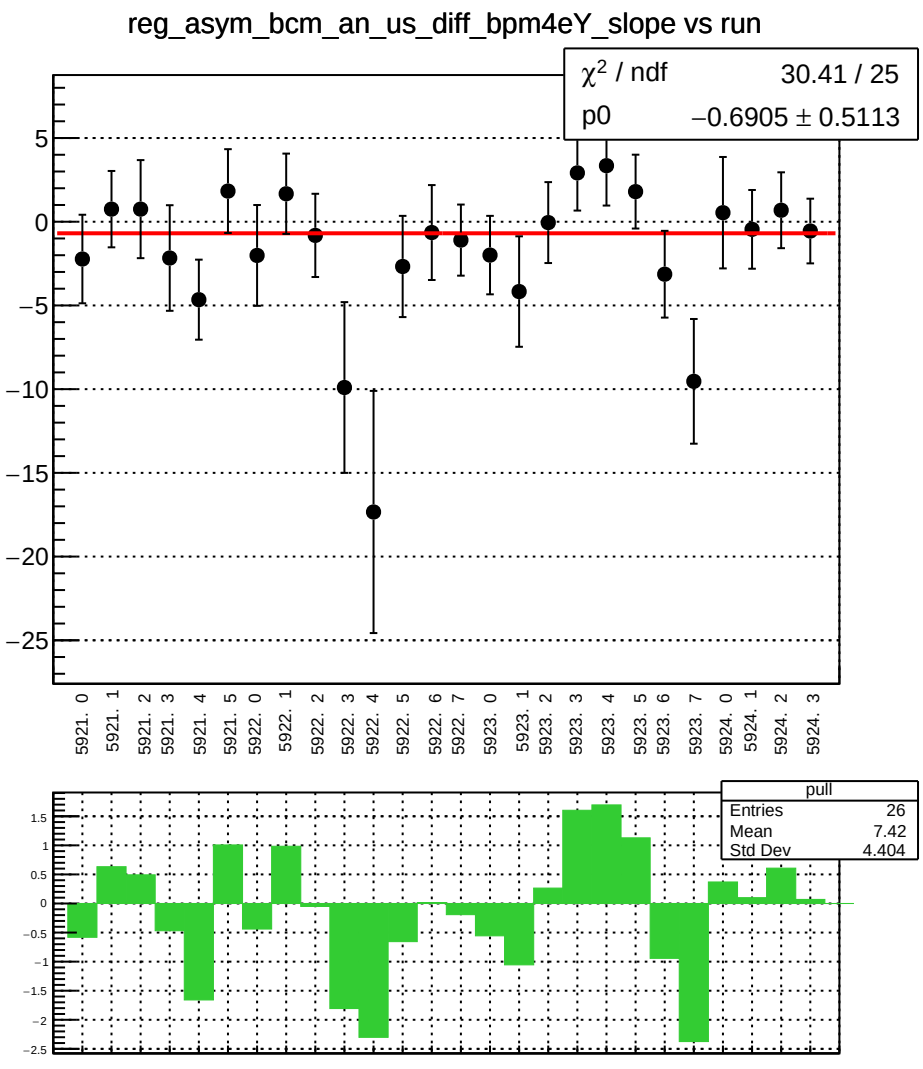

pull1D
Entries 26
Mean −0.156
Std Dev 1.084
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

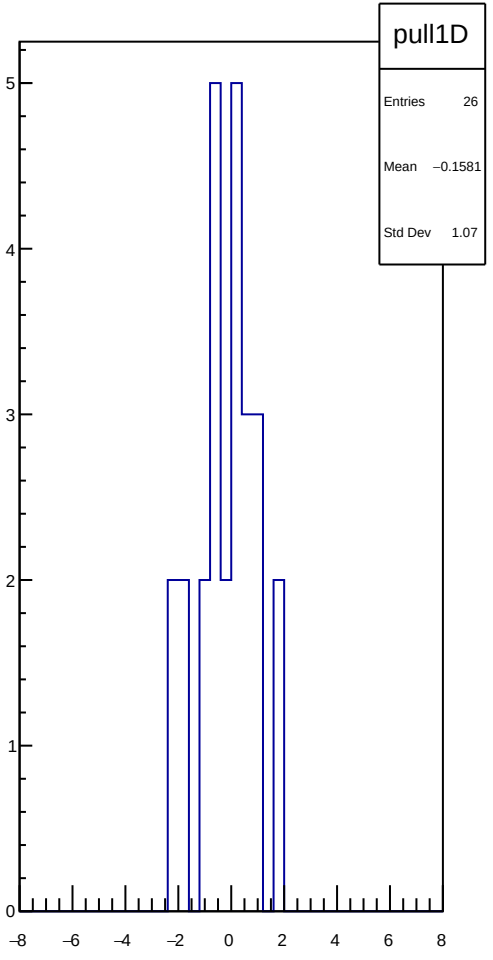

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 32.68 / 25
p0 0.1403 ± 0.03149
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.38
Std Dev 19.85
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.09256
Std Dev 1.117
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

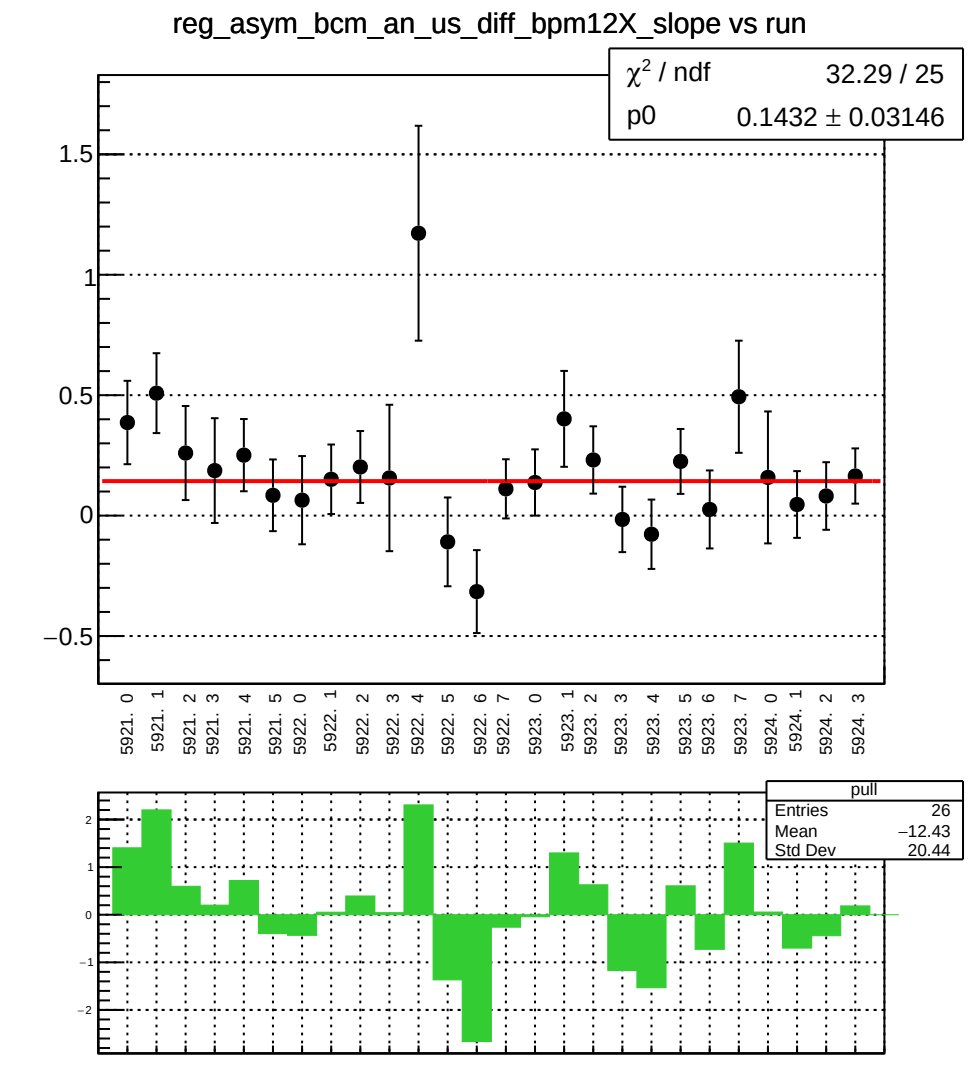

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 25.6 / 25
p0 1.32 ± 0.5618
15
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −11.08
Std Dev 31.92
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.03115
Std Dev 0.9917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

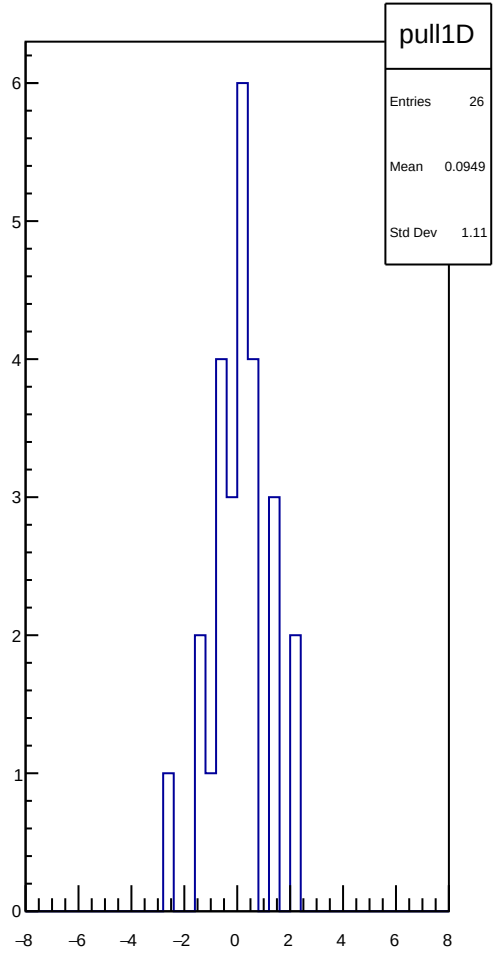

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 30.52 / 25
p0 0.6198 ± 0.4659
25
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 8.004
Std Dev 3.604
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.1514
Std Dev 1.073
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

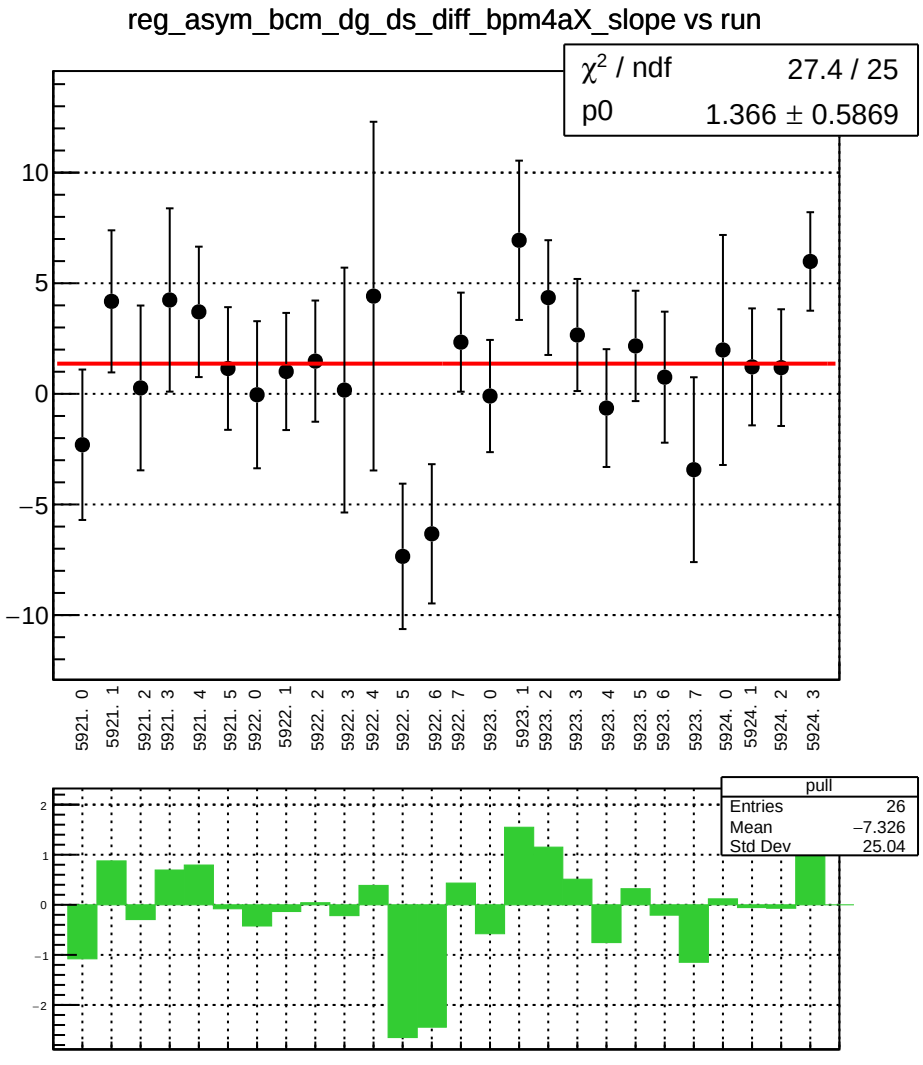

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 24.8 / 25
p0 −1.557 ± 0.7074
15
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −11.52
Std Dev 29.91
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.04226
Std Dev 0.9757
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

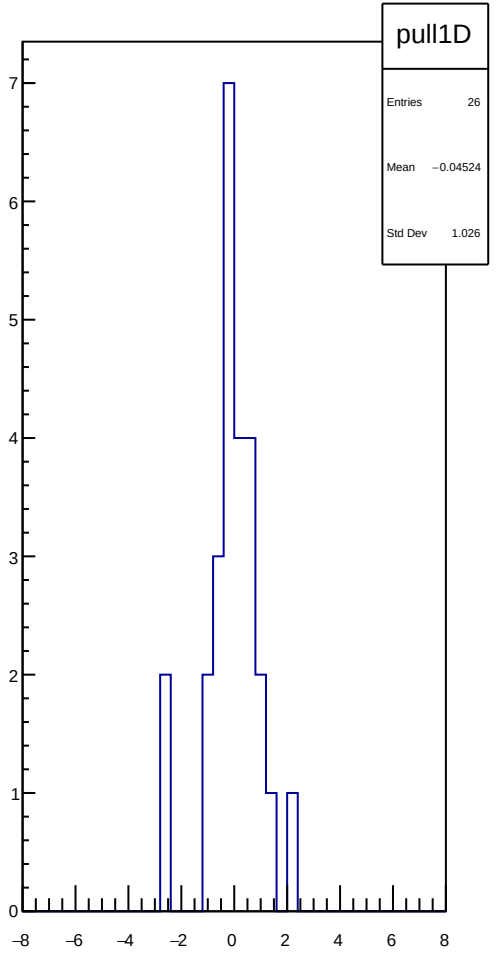

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 30.41 / 25
p0 −0.6905 ± 0.5113
5
0
−5
−10
−15
−20
−25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 7.42
Std Dev 4.404
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

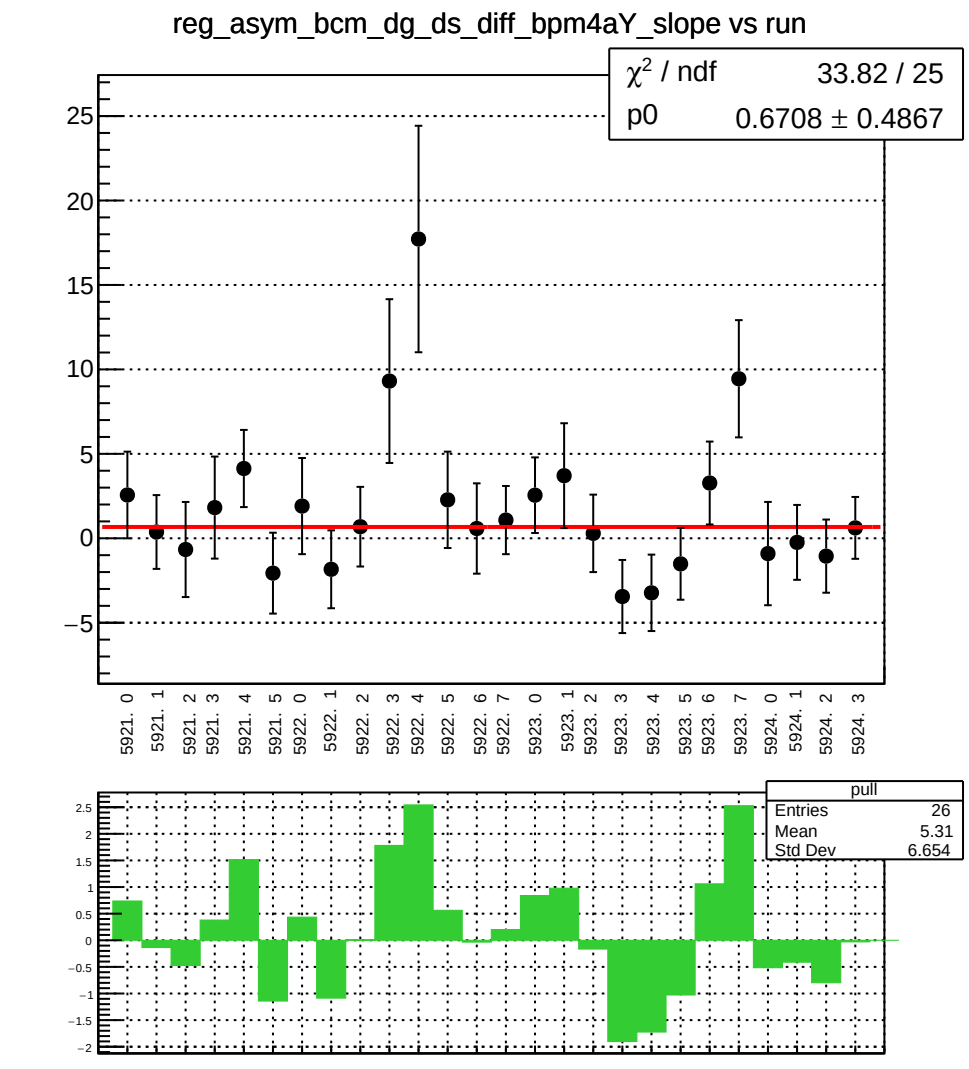

pull1D
Entries 26
Mean −0.1581
Std Dev 1.07
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

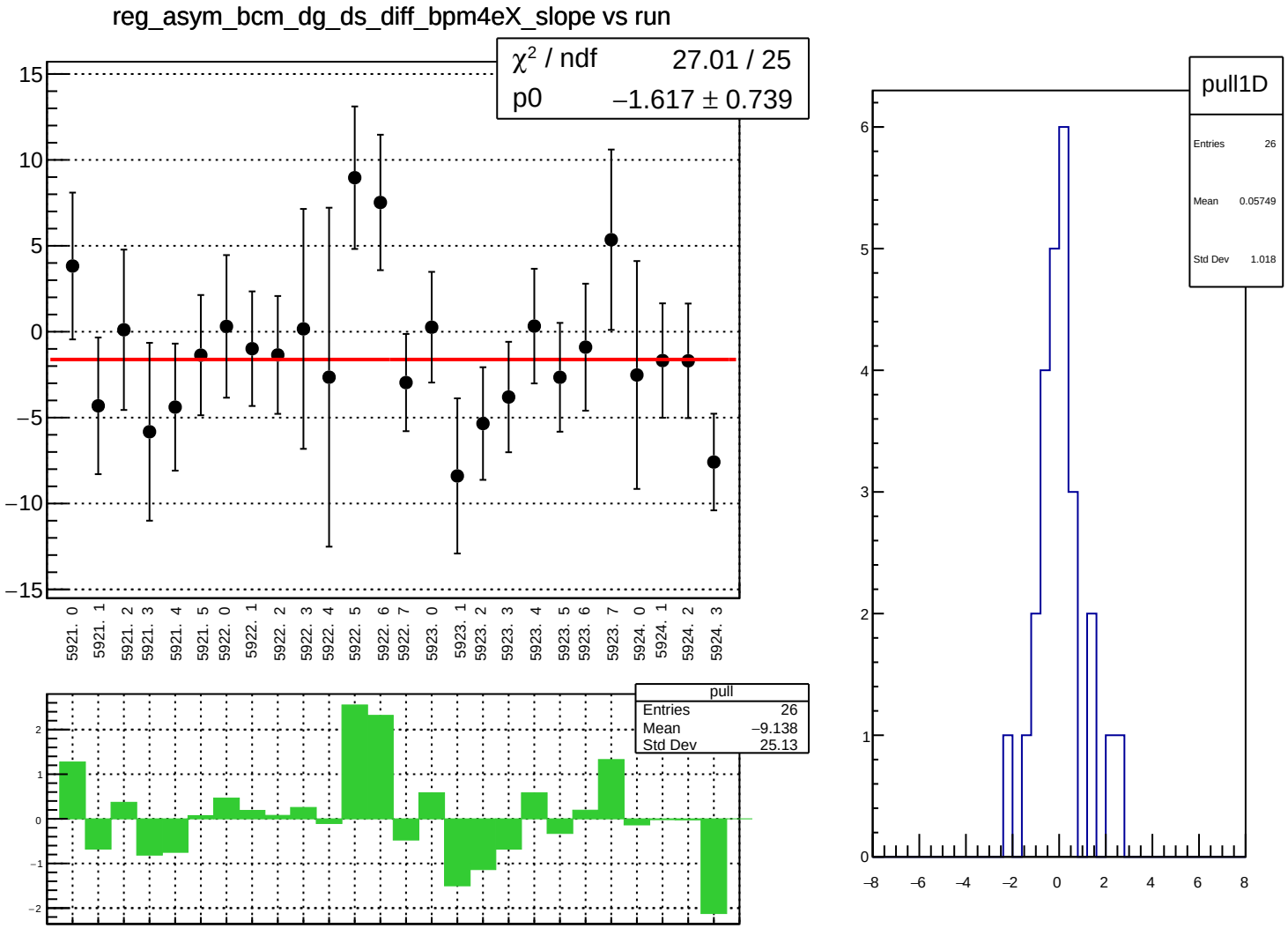

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 32.29 / 25
p0 0.1432 ± 0.03146
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −12.43
Std Dev 20.44
2
1
0
−1
−2

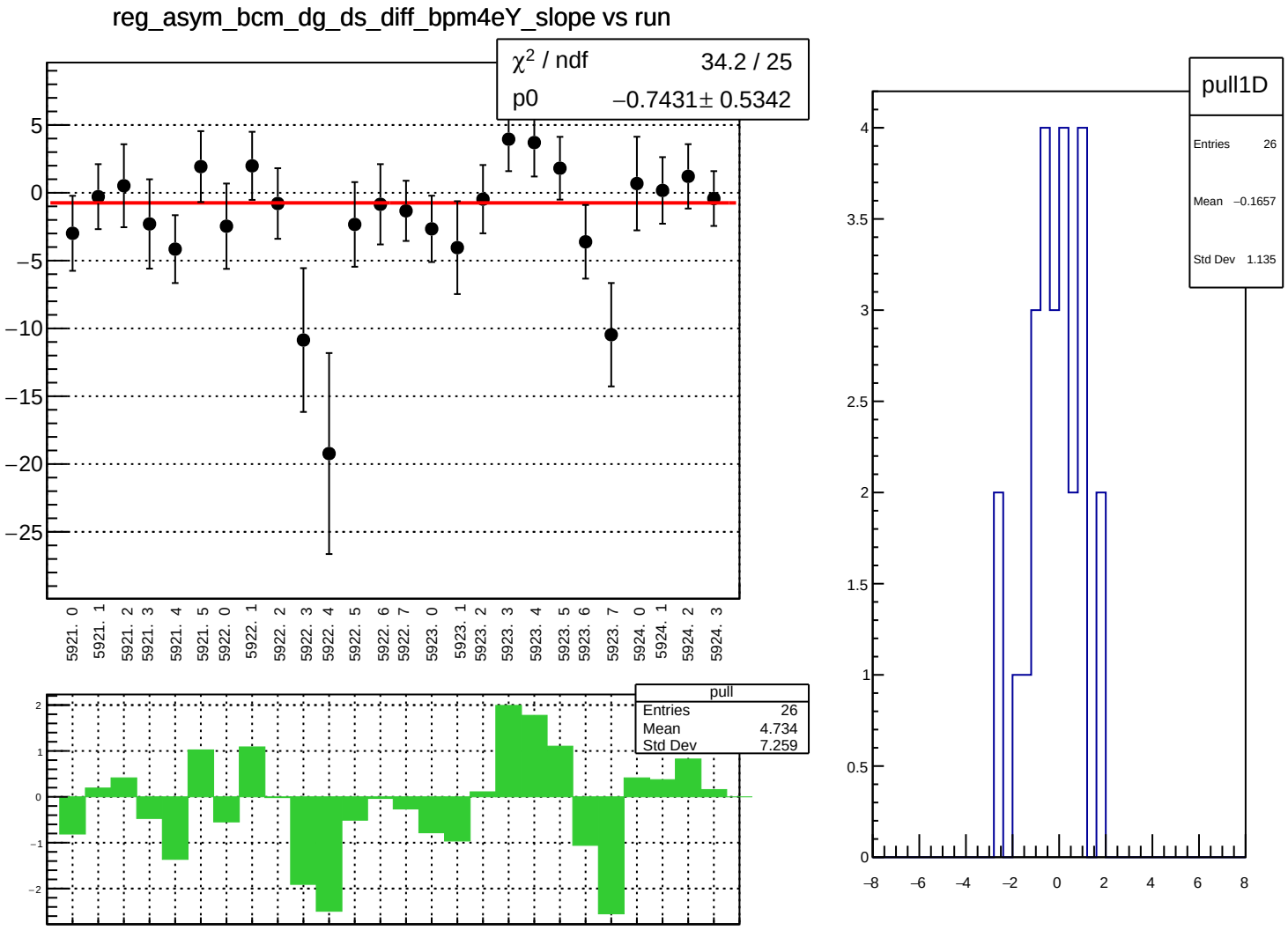

pull1D
Entries 26
Mean 0.0949
Std Dev 1.11
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

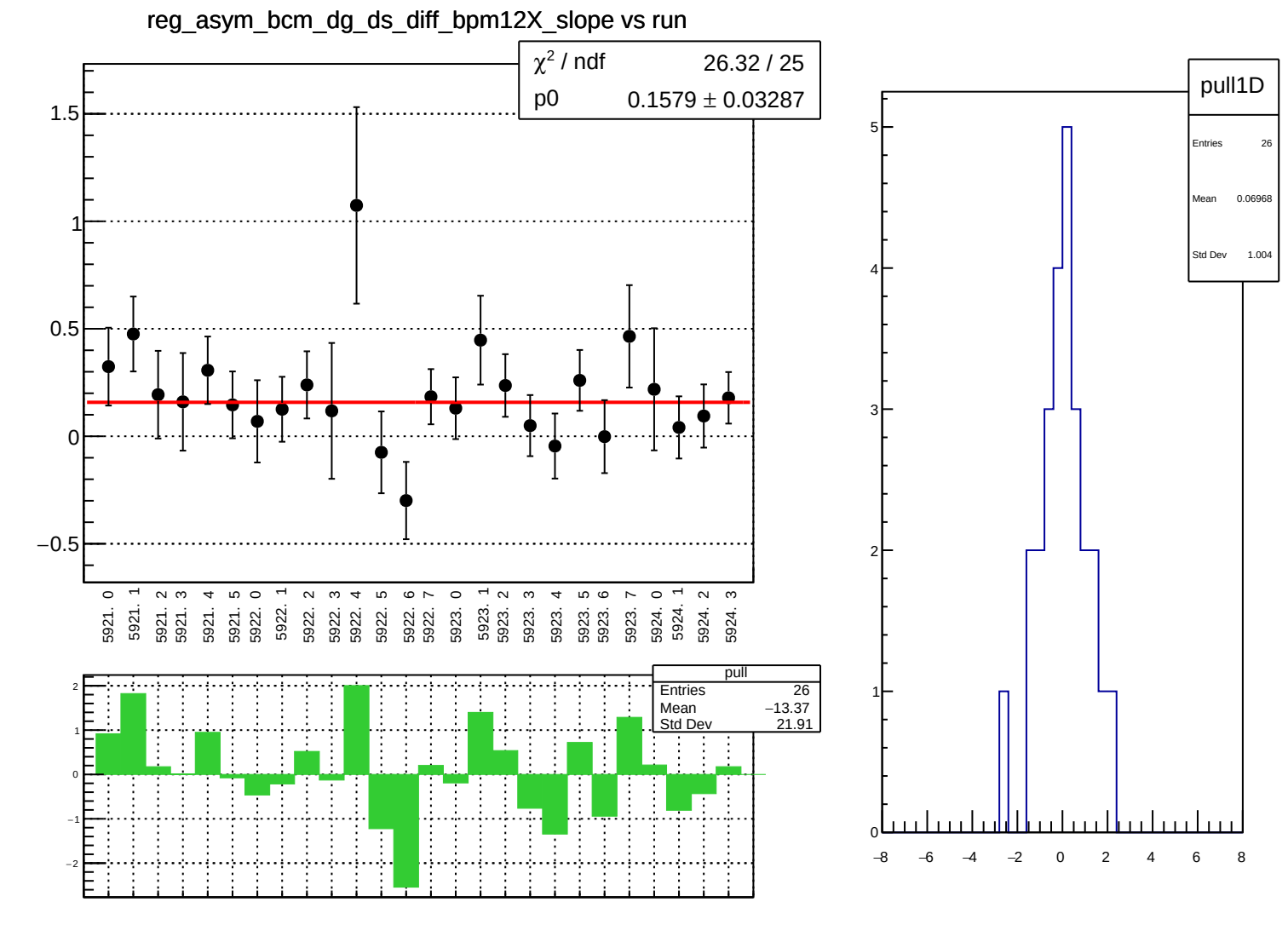

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 27.4 / 25
p0 1.366 ± 0.5869
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −7.326
Std Dev 25.04
2
1
0
−1
−2

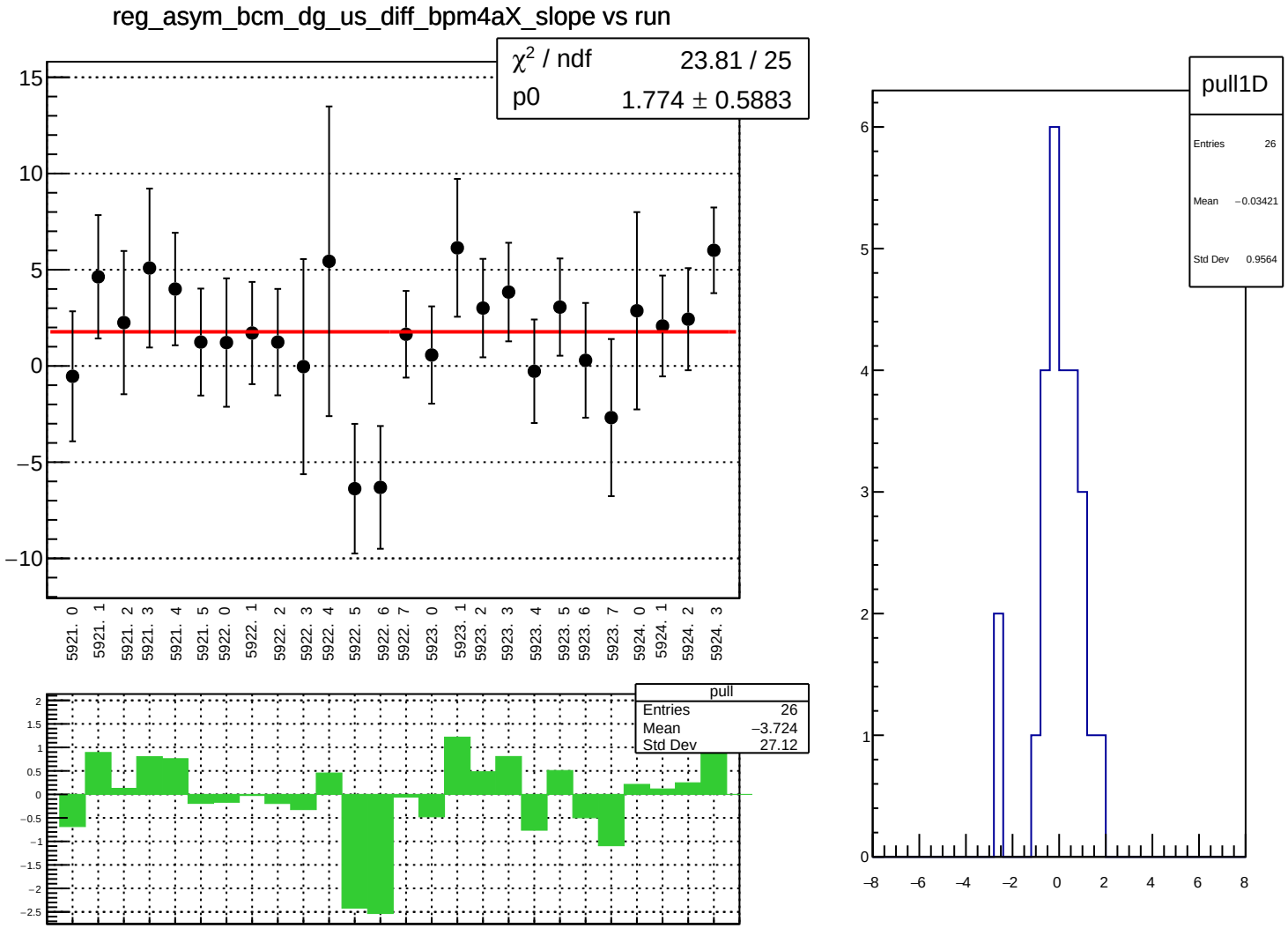

pull1D
Entries 26
Mean −0.04524
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

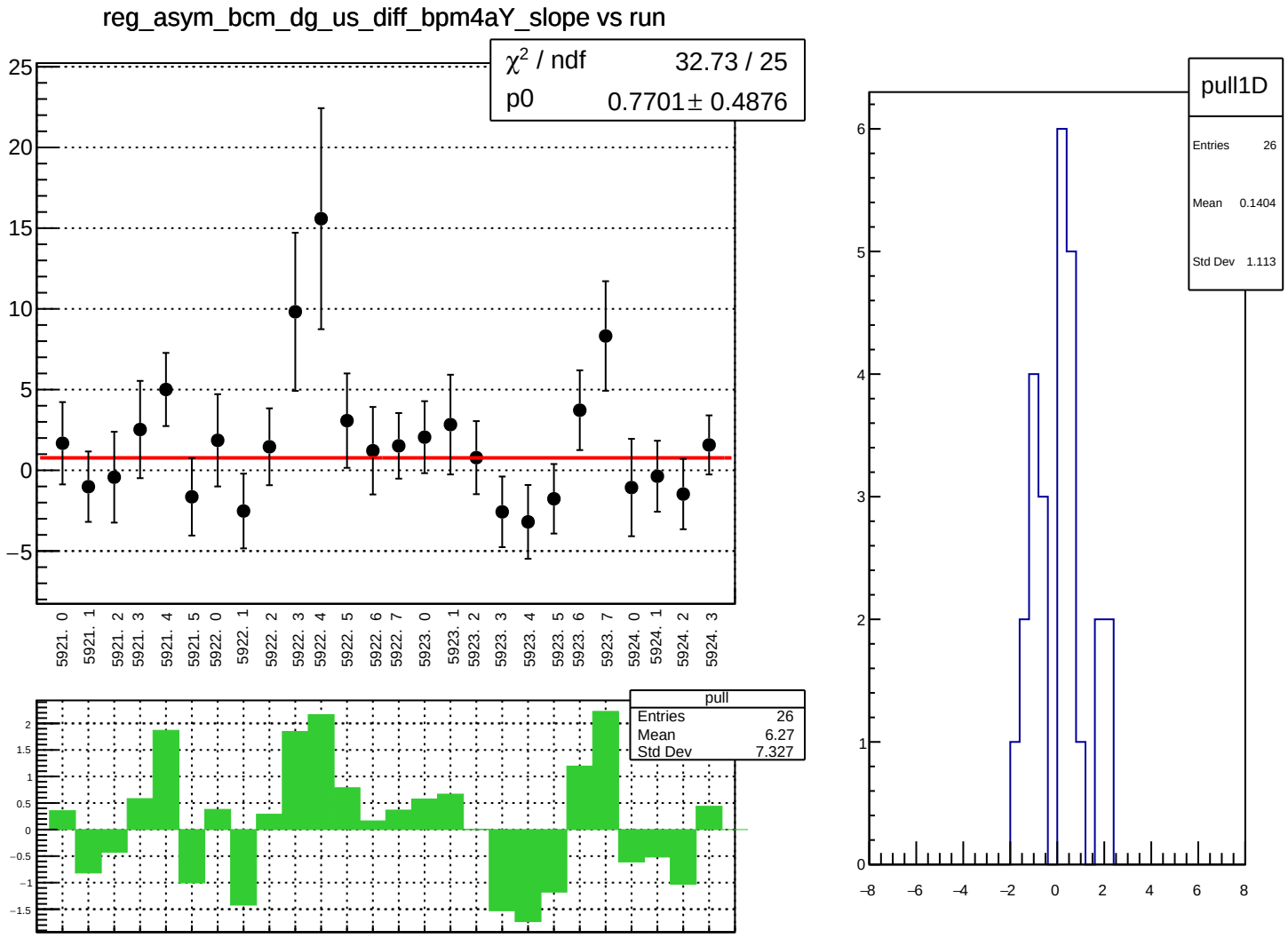

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 33.82 / 25
p0 0.6708 ± 0.4867
25
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5.31
Std Dev 6.654
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.1586
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

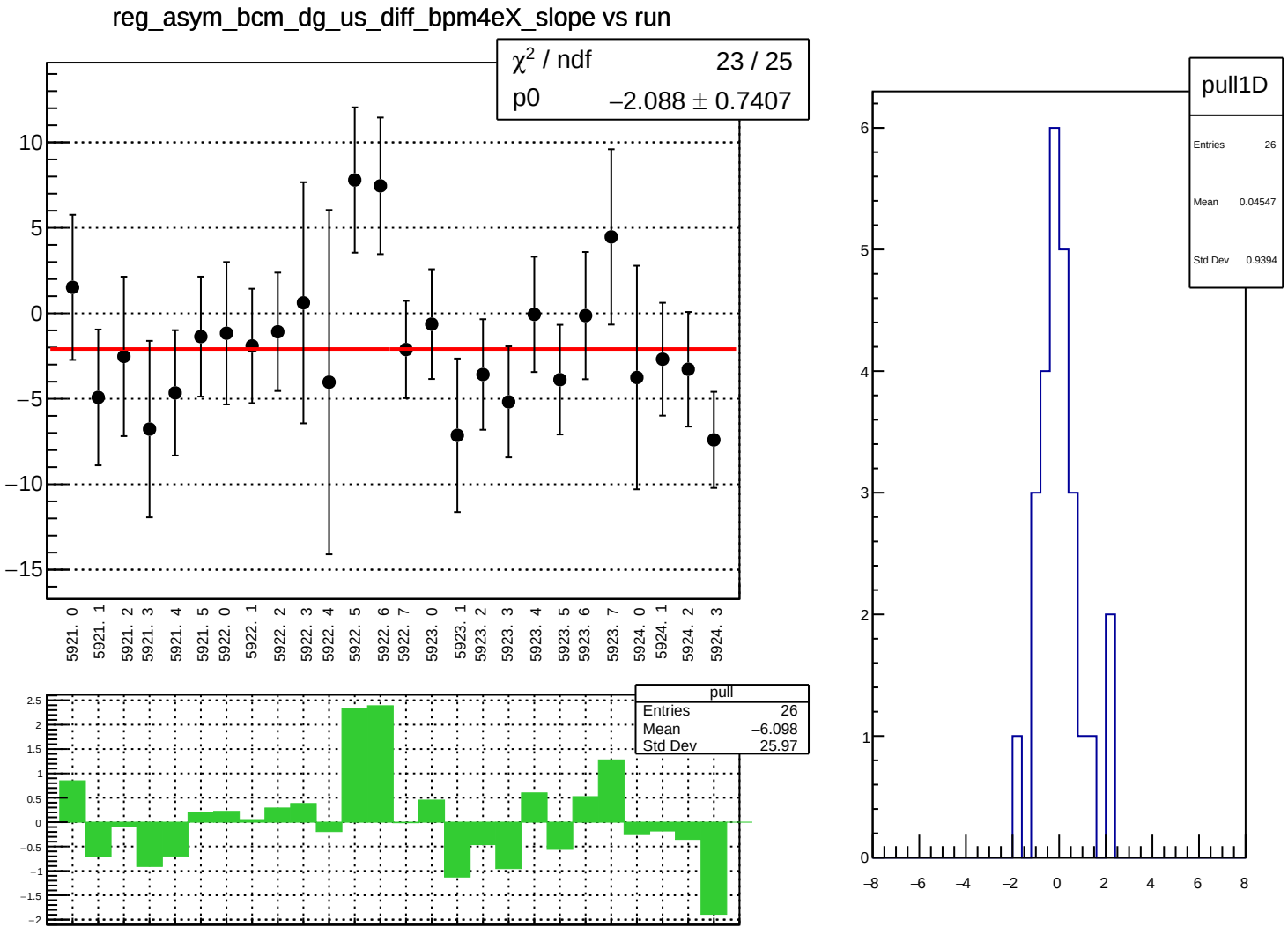

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 27.01 / 25
p0 −1.617 ± 0.739
pull
Entries 26
Mean −9.138
Std Dev 25.13
pull1D
Entries 26
Mean 0.05749
Std Dev 1.018

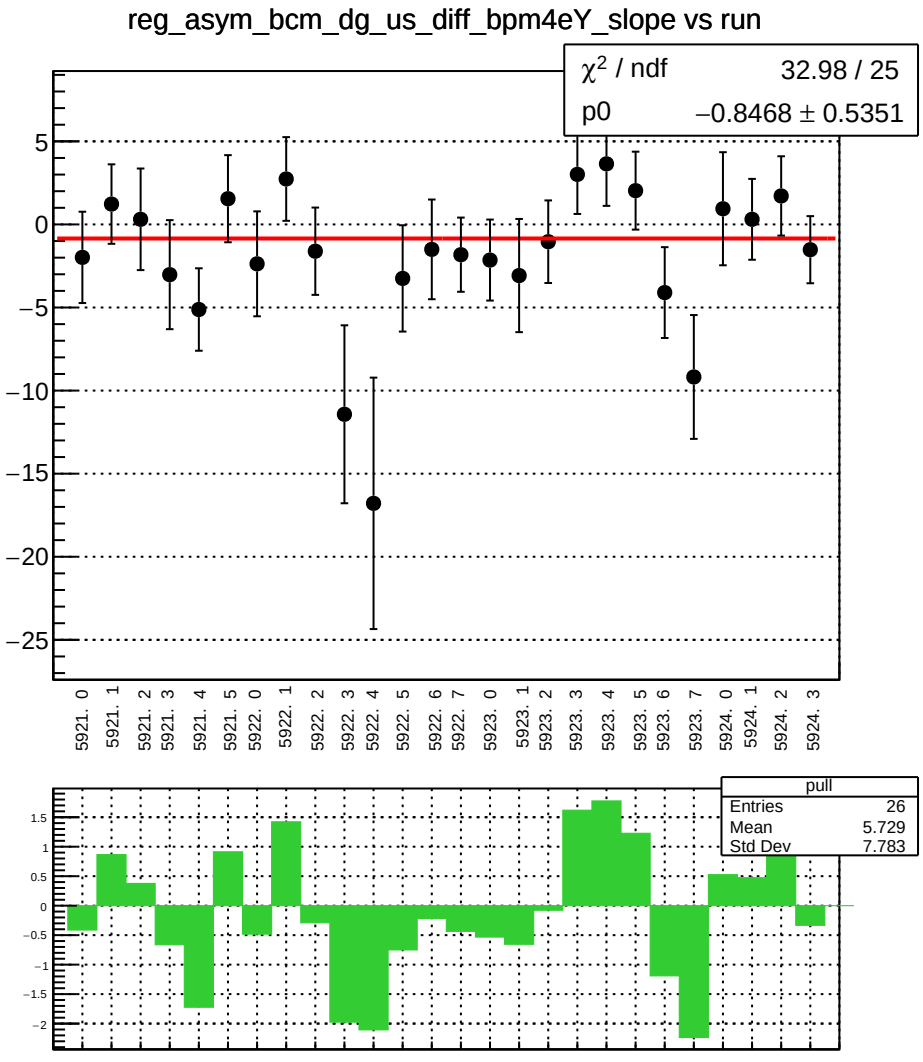

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 34.2 / 25
p0 −0.7431± 0.5342
5
0
−5
−10
−15
−20
−25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 4.734
Std Dev 7.259
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.1657
Std Dev 1.135
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

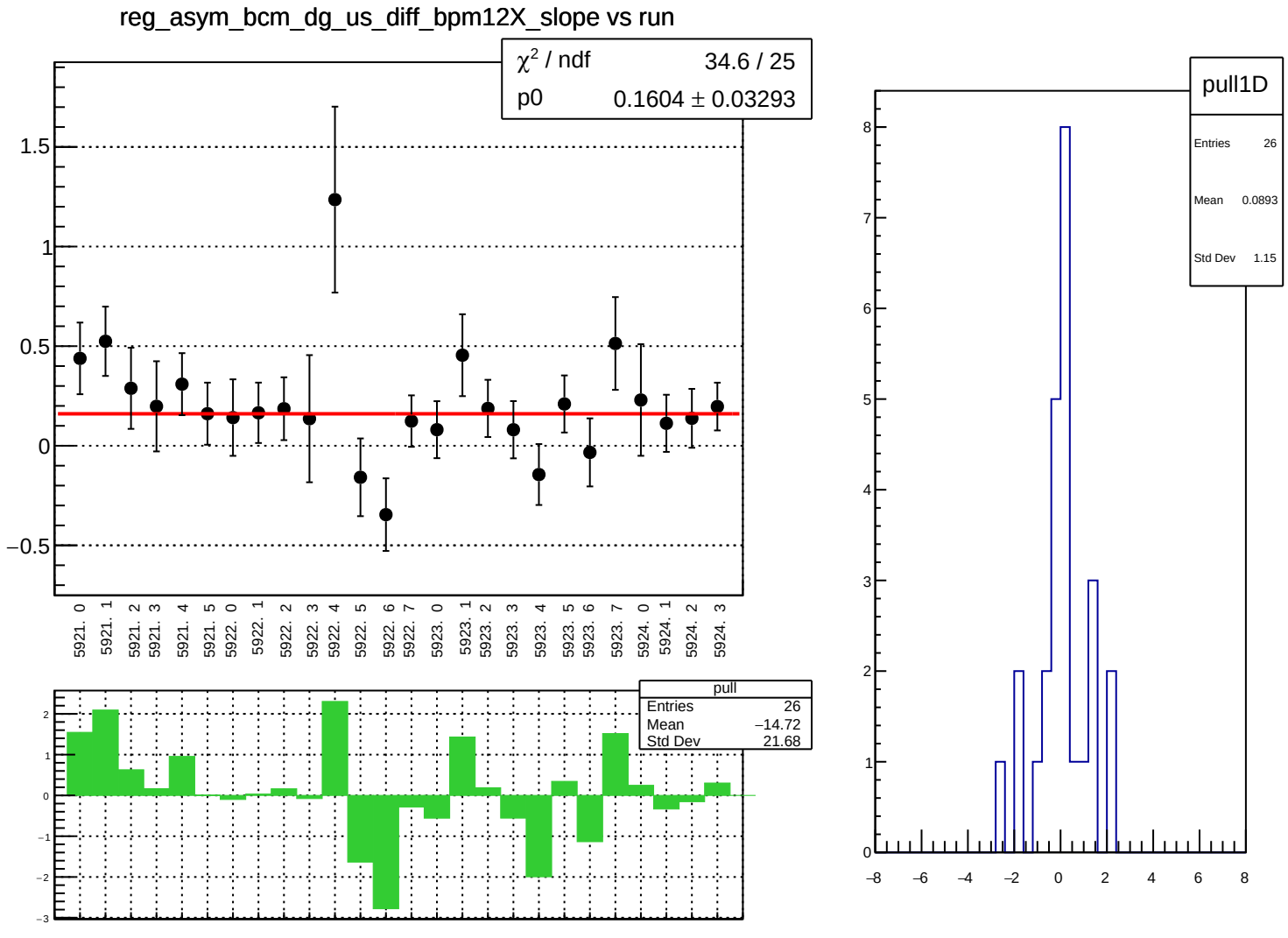

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 26.32 / 25
p0 0.1579 ± 0.03287
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −13.37
Std Dev 21.91
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.06968
Std Dev 1.004
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 23.81 / 25
p0 1.774 ± 0.5883
15
10
5
0
−5
−10
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −3.724
Std Dev 27.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean −0.03421
Std Dev 0.9564
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 32.73 / 25
p0 0.7701± 0.4876
25
20
15
10
5
0
−5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 6.27
Std Dev 7.327
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.1404
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 23 / 25
p0 −2.088 ± 0.7407
10
5
0
−5
−10
−15
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −6.098
Std Dev 25.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.04547
Std Dev 0.9394
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 32.98 / 25
p0 −0.8468 ± 0.5351
5
0
−5
−10
−15
−20
−25
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean 5.729
Std Dev 7.783
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.1465
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 34.6 / 25
p0 0.1604 ± 0.03293
1.5
1
0.5
0
−0.5
5921. 0
5921. 1
5921. 2
5921. 3
5921. 4
5921. 5
5922. 0
5922. 1
5922. 2
5922. 3
5922. 4
5922. 5
5922. 6
5922. 7
5923. 0
5923. 1
5923. 2
5923. 3
5923. 4
5923. 5
5923. 6
5923. 7
5924. 0
5924. 1
5924. 2
5924. 3
pull
Entries 26
Mean −14.72
Std Dev 21.68
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean 0.0893
Std Dev 1.15
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8