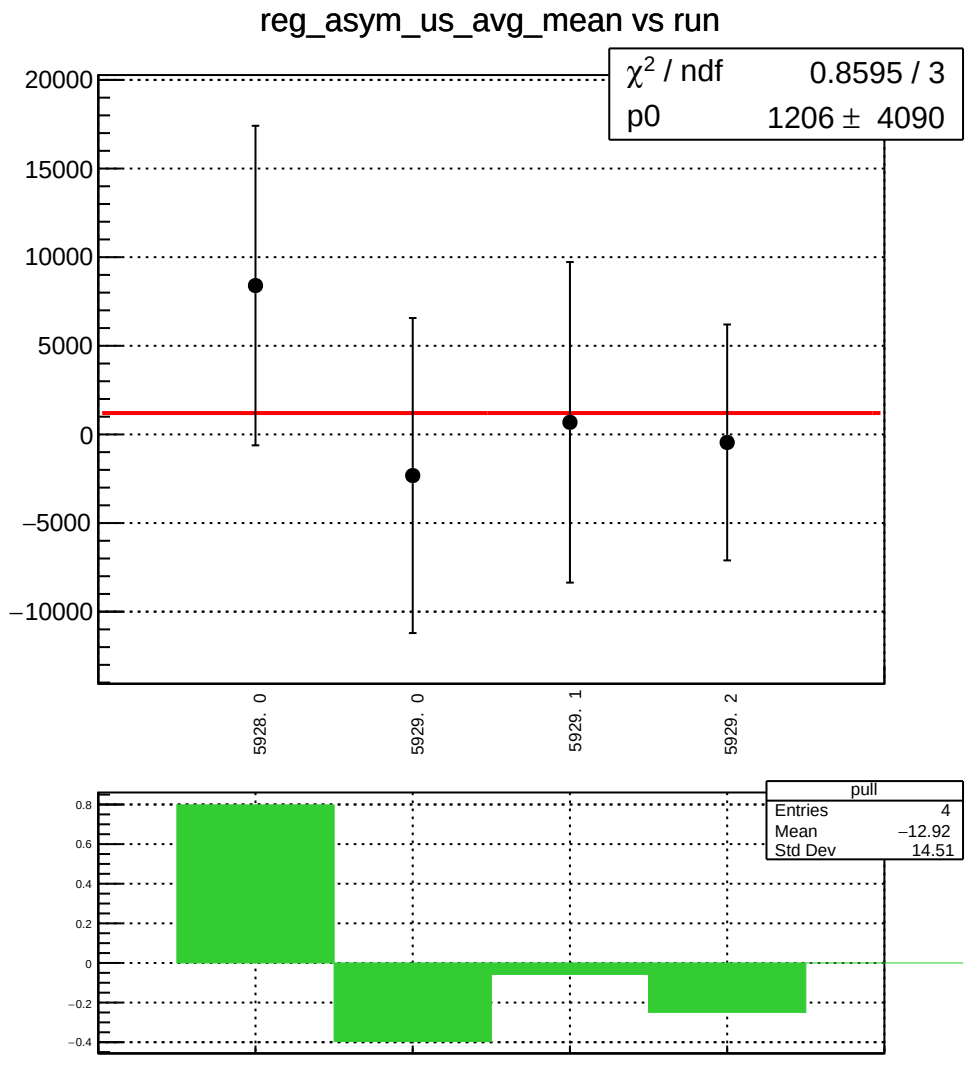
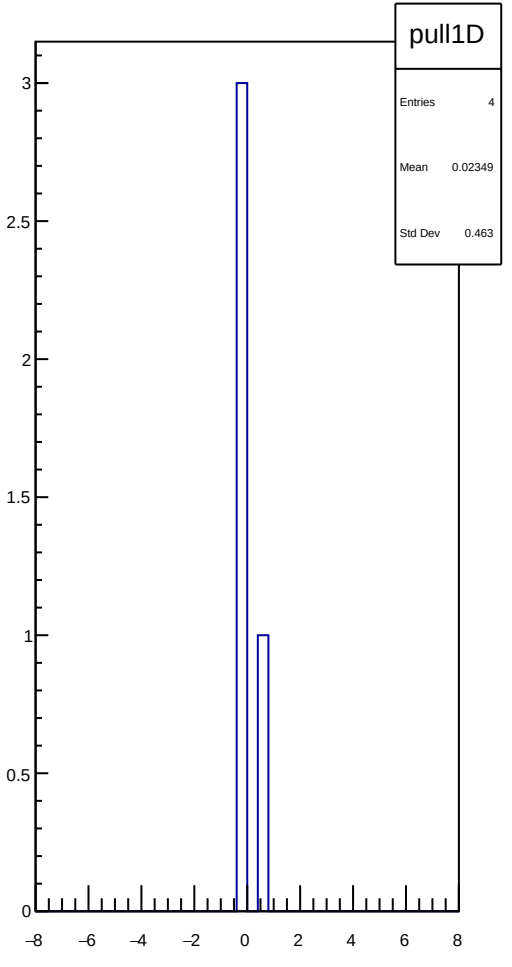
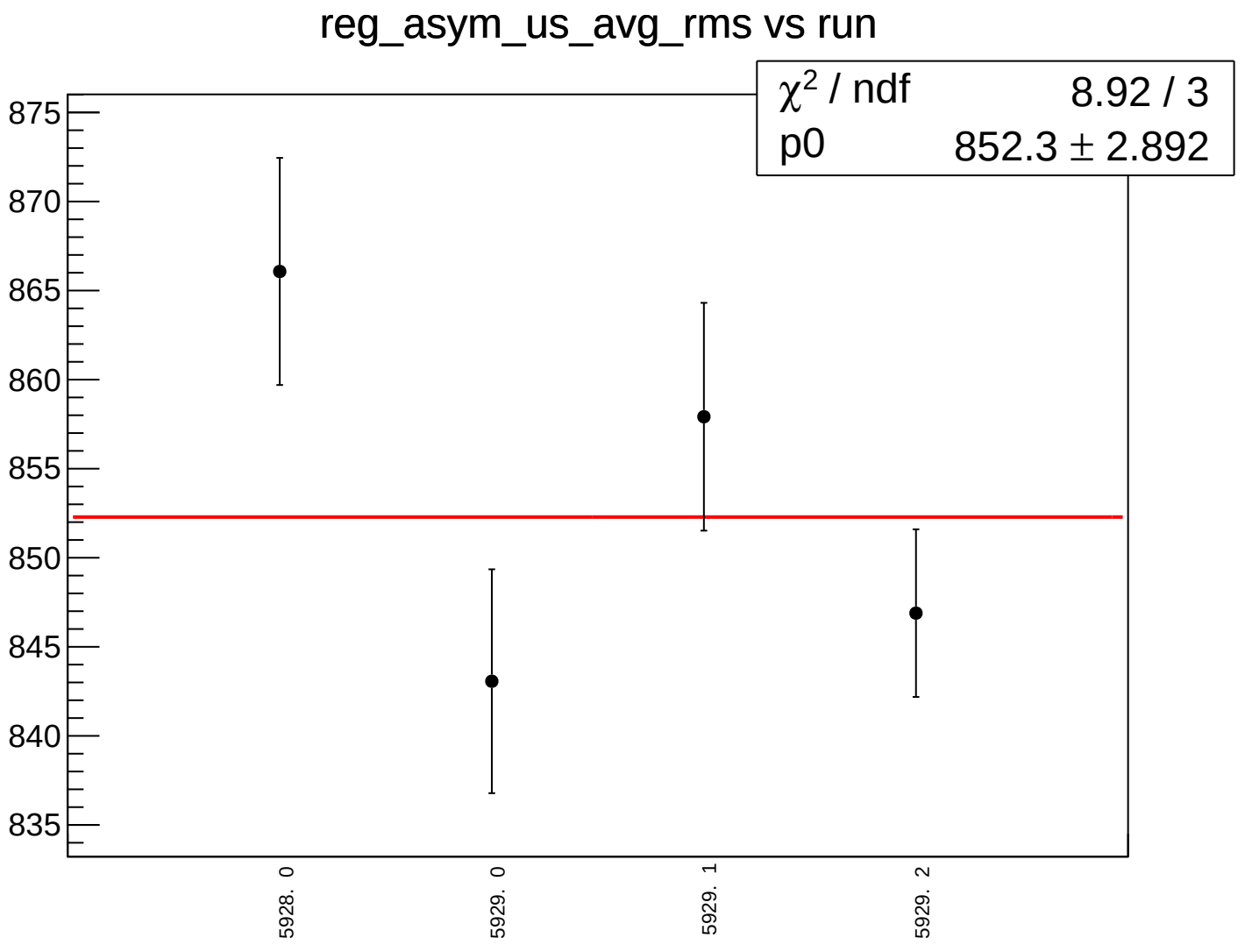
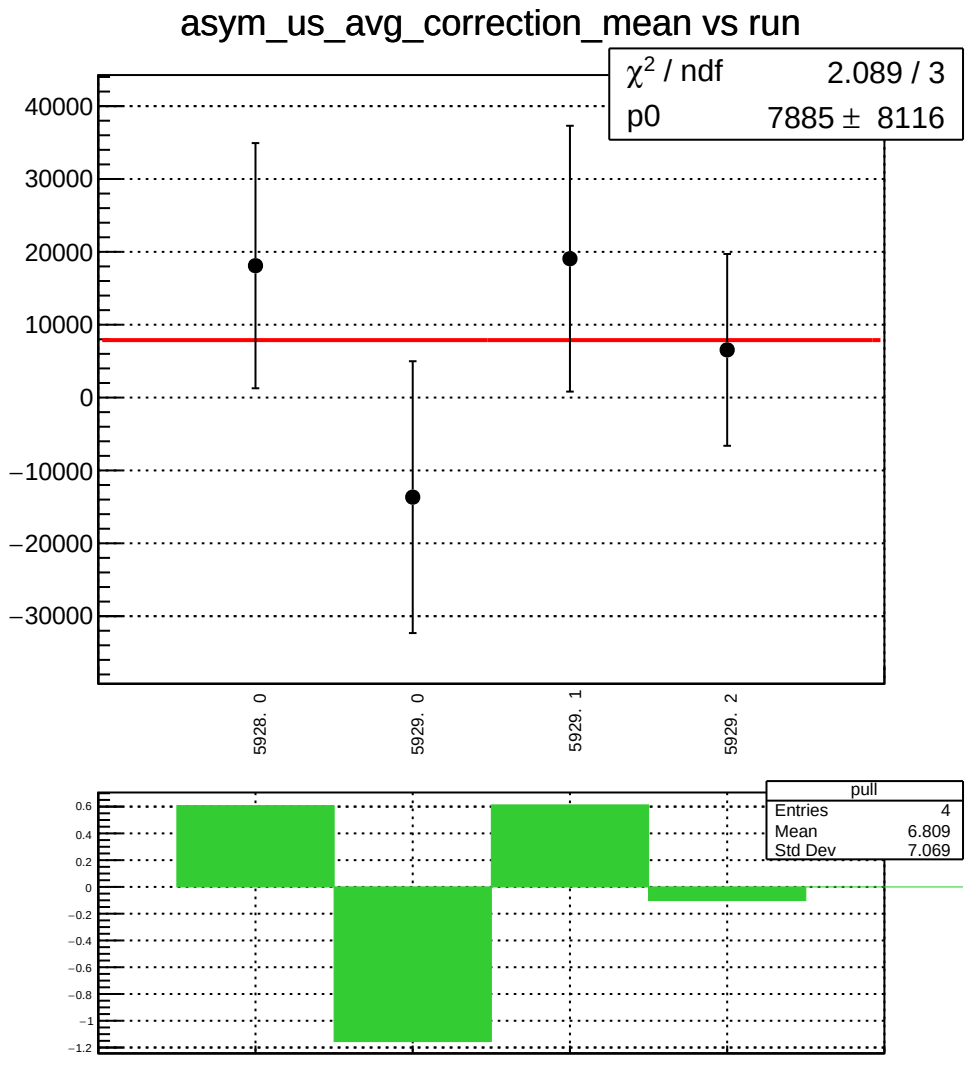
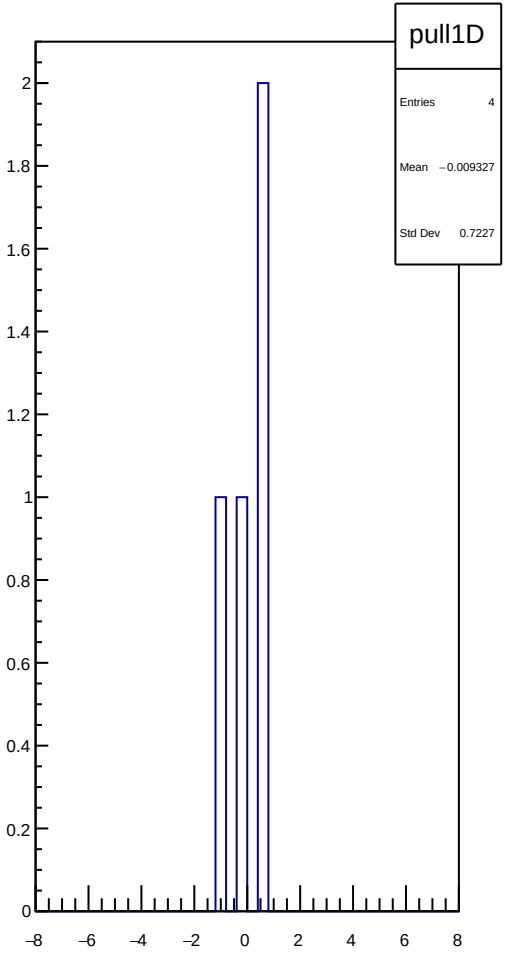
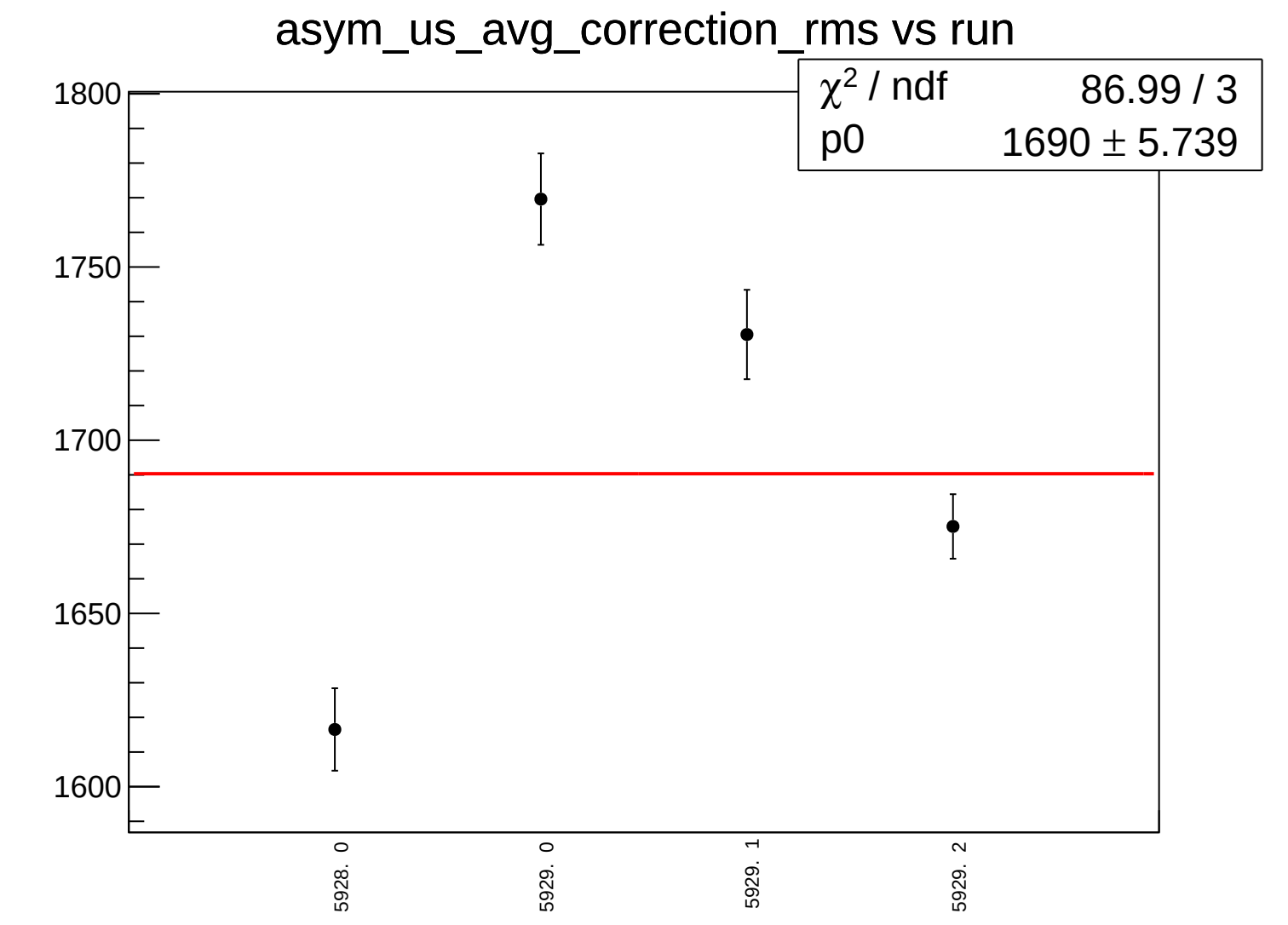

reg_asym_us_avg_mean vs run
χ² / ndf 0.8595 / 3
p0 1206 ± 4090
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.92
Std Dev 14.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4

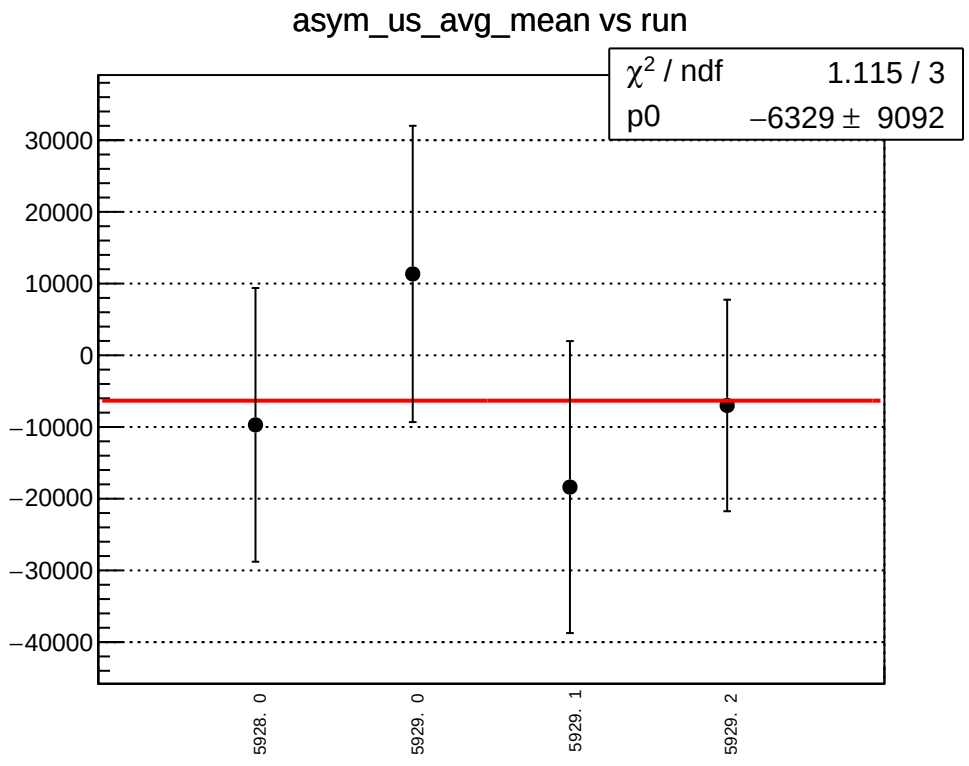

pull1D
Entries 4
Mean 0.02349
Std Dev 0.463
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

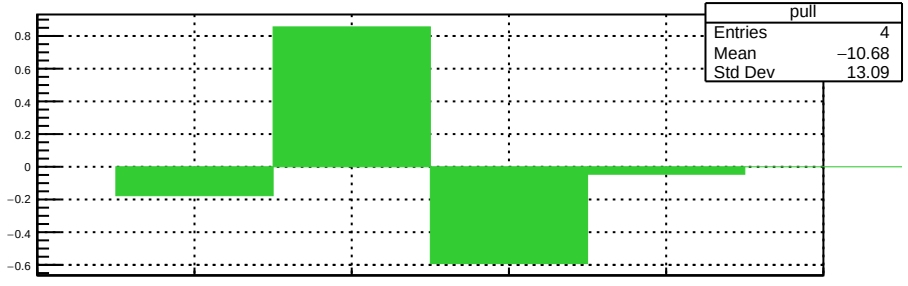

reg_asym_us_avg_rms vs run
χ² / ndf 8.92 / 3
p0 852.3 ± 2.892
875
870
865
860
855
850
845
840
835
5928. 0
5929. 0
5929. 1
5929. 2

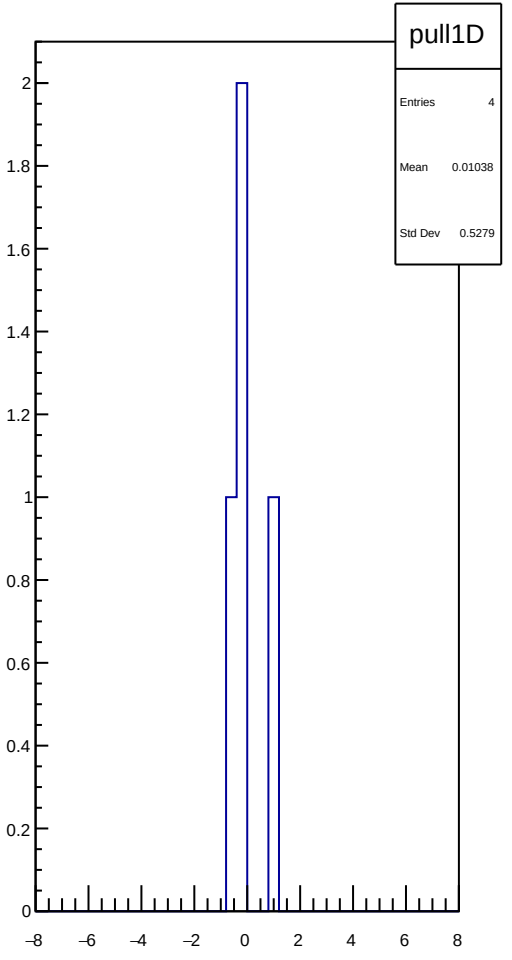

asym_us_avg_correction_mean vs run
χ² / ndf 2.089 / 3
p0 7885 ± 8116
40000
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.809
Std Dev 7.069
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

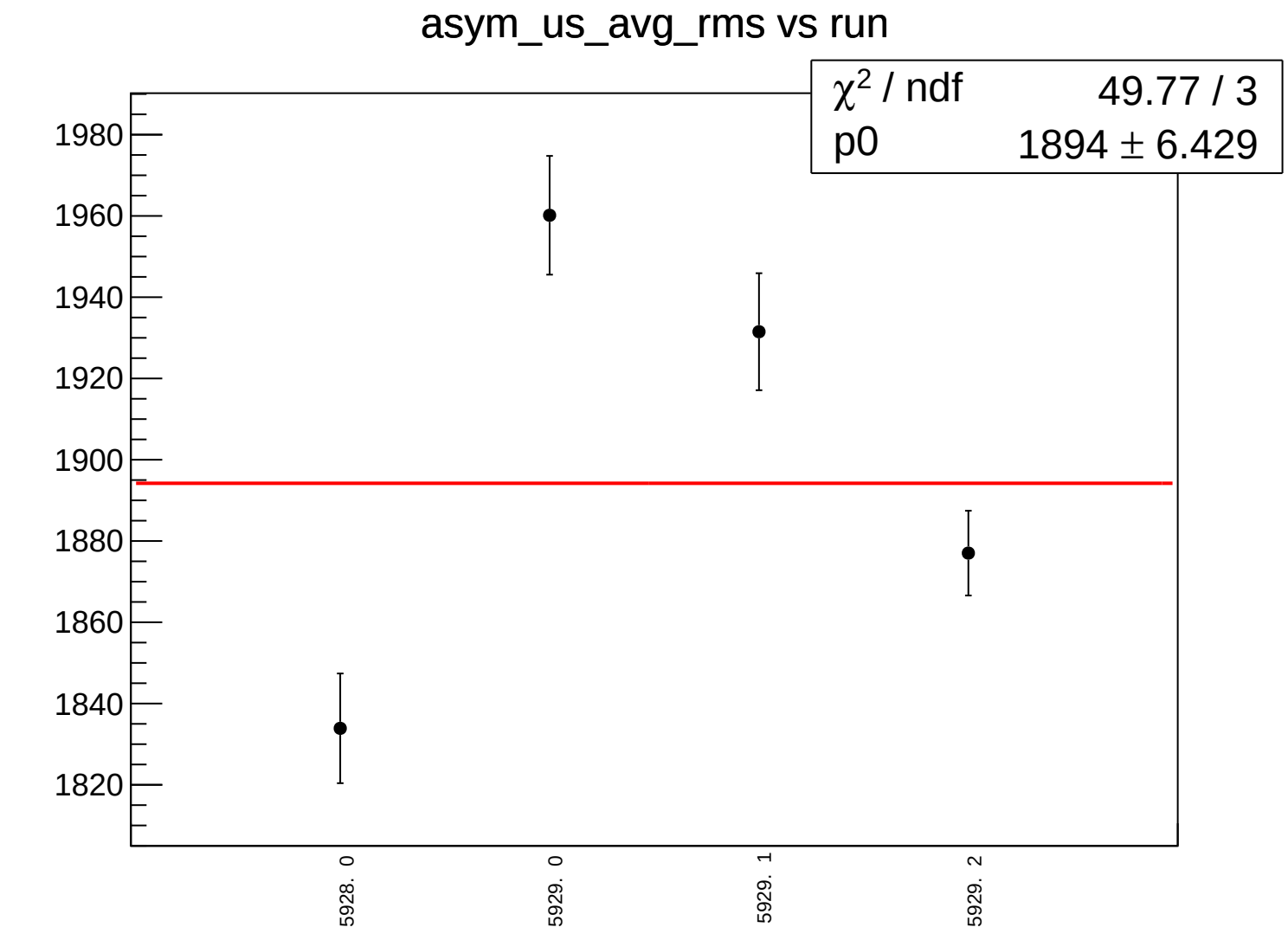

pull1D
Entries 4
Mean −0.009327
Std Dev 0.7227
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

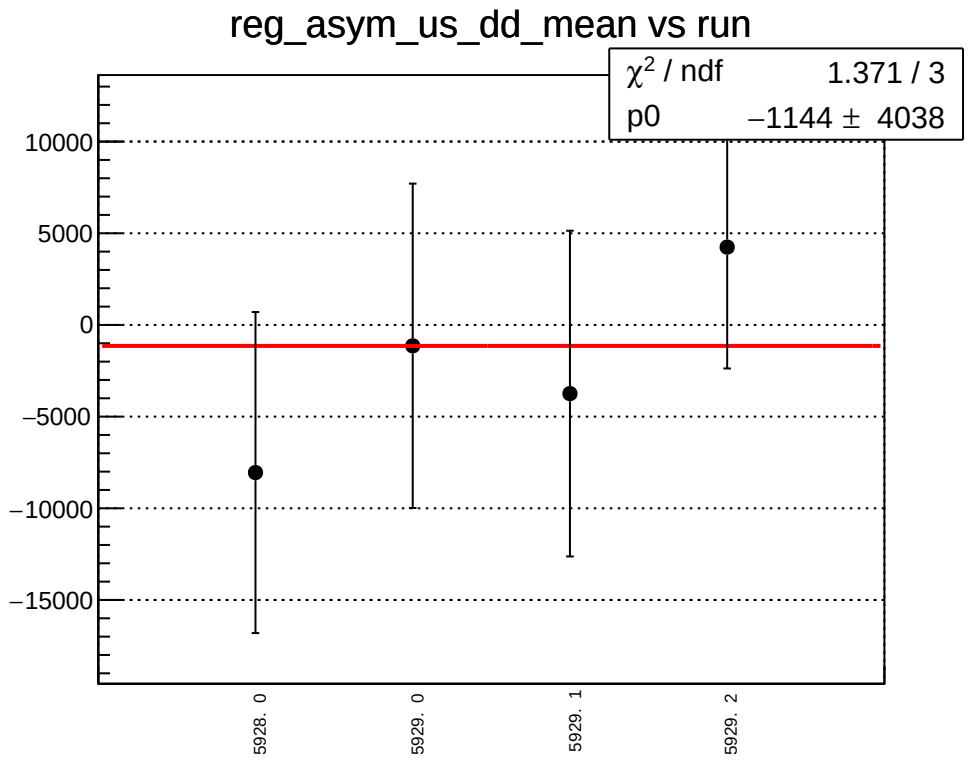

asym_us_avg_correction_rms vs run
χ² / ndf 86.99 / 3
p0 1690 ± 5.739
1800
1750
1700
1650
1600
5928. 0
5929. 0
5929. 1
5929. 2

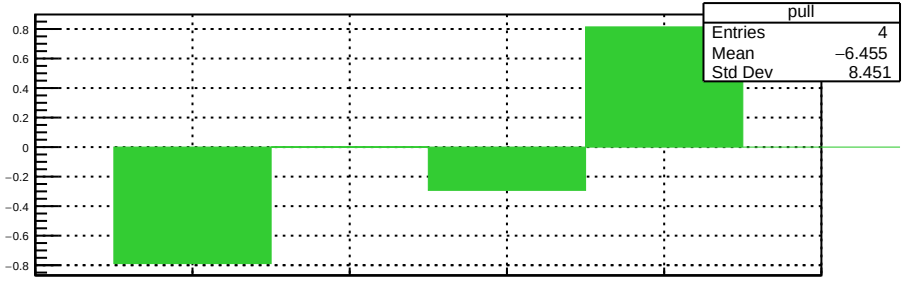

asym_us_avg_mean vs run
χ² / ndf 1.115 / 3
p0 −6329 ± 9092
30000
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2

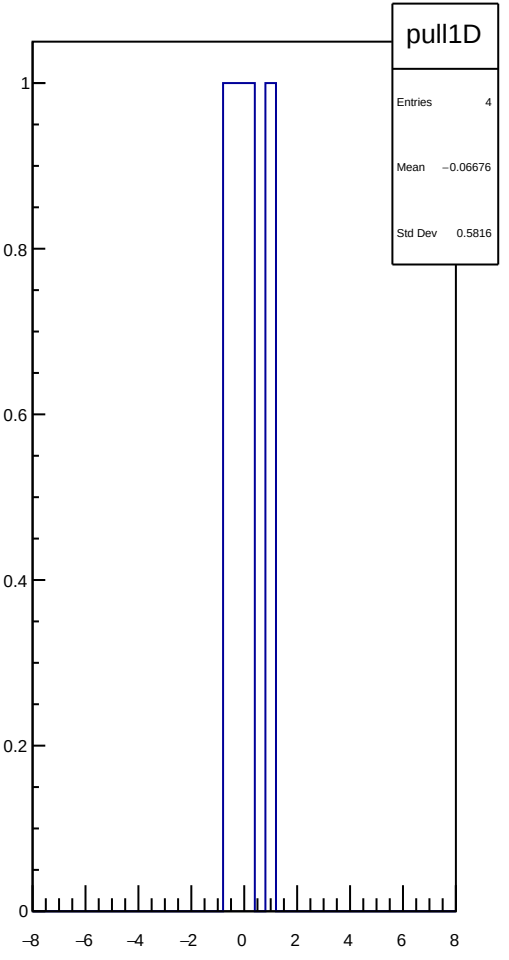

pull
Entries 4
Mean −10.68
Std Dev 13.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

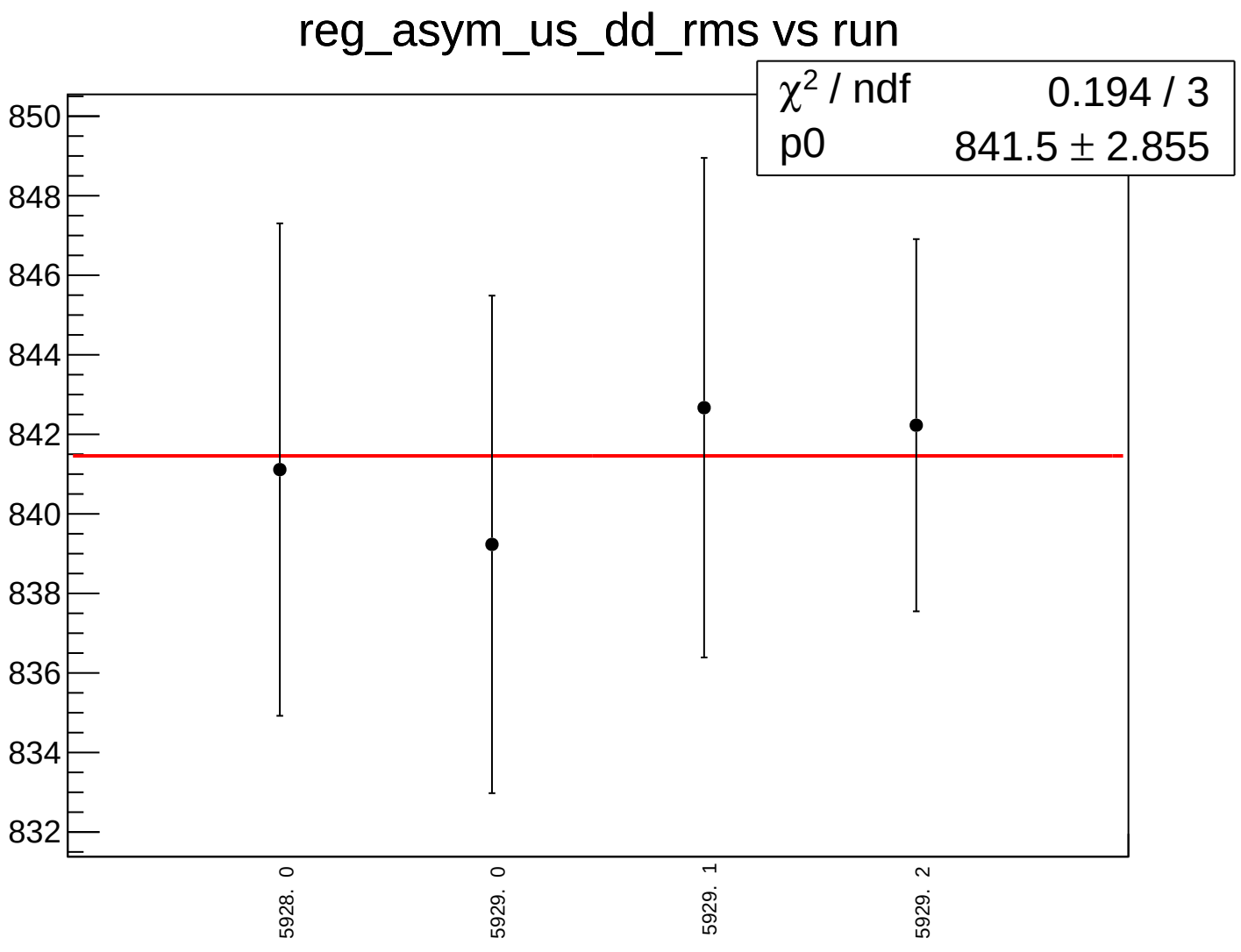

pull1D
Entries 4
Mean 0.01038
Std Dev 0.5279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

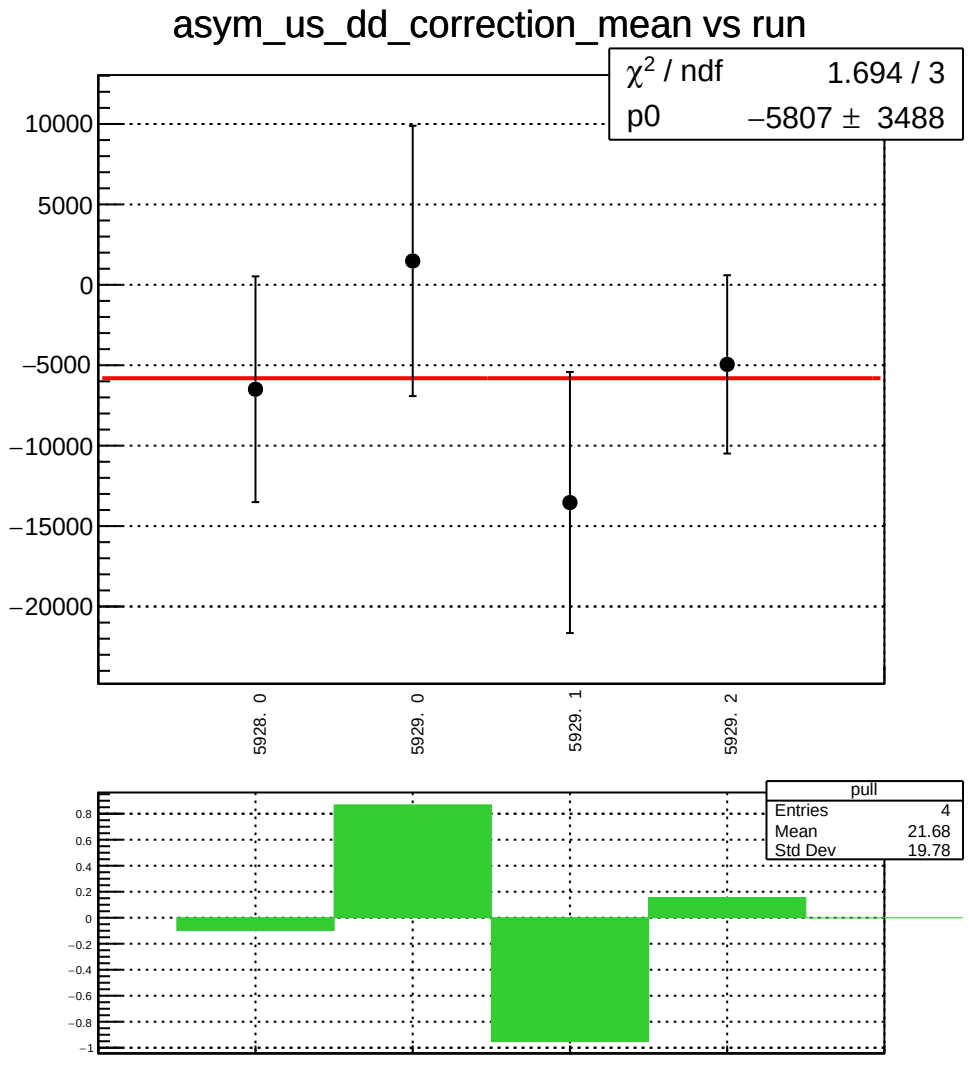

asym_us_avg_rms vs run
χ² / ndf 49.77 / 3
p0 1894 ± 6.429
1980
1960
1940
1920
1900
1880
1860
1840
1820
5928. 0
5929. 0
5929. 1
5929. 2

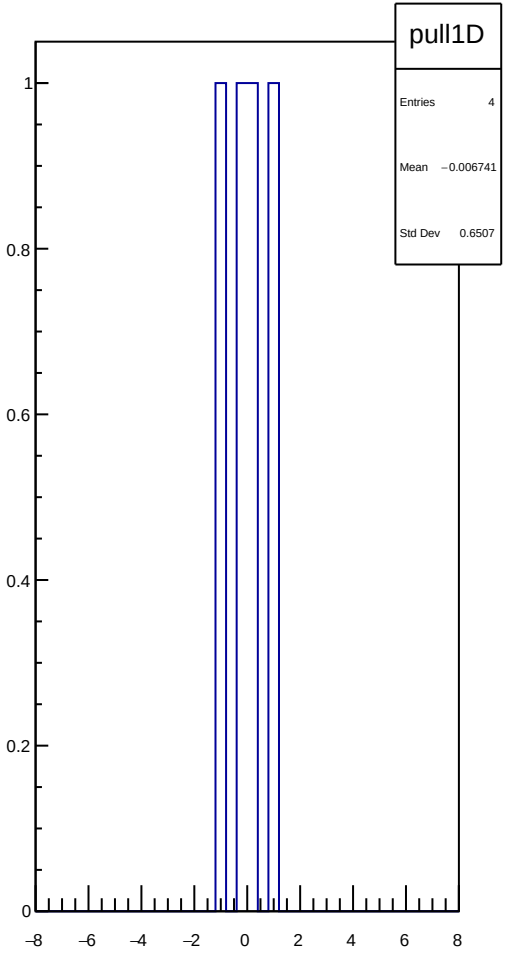

reg_asym_us_dd_mean vs run
χ² / ndf 1.371 / 3
p0 −1144 ± 4038
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2

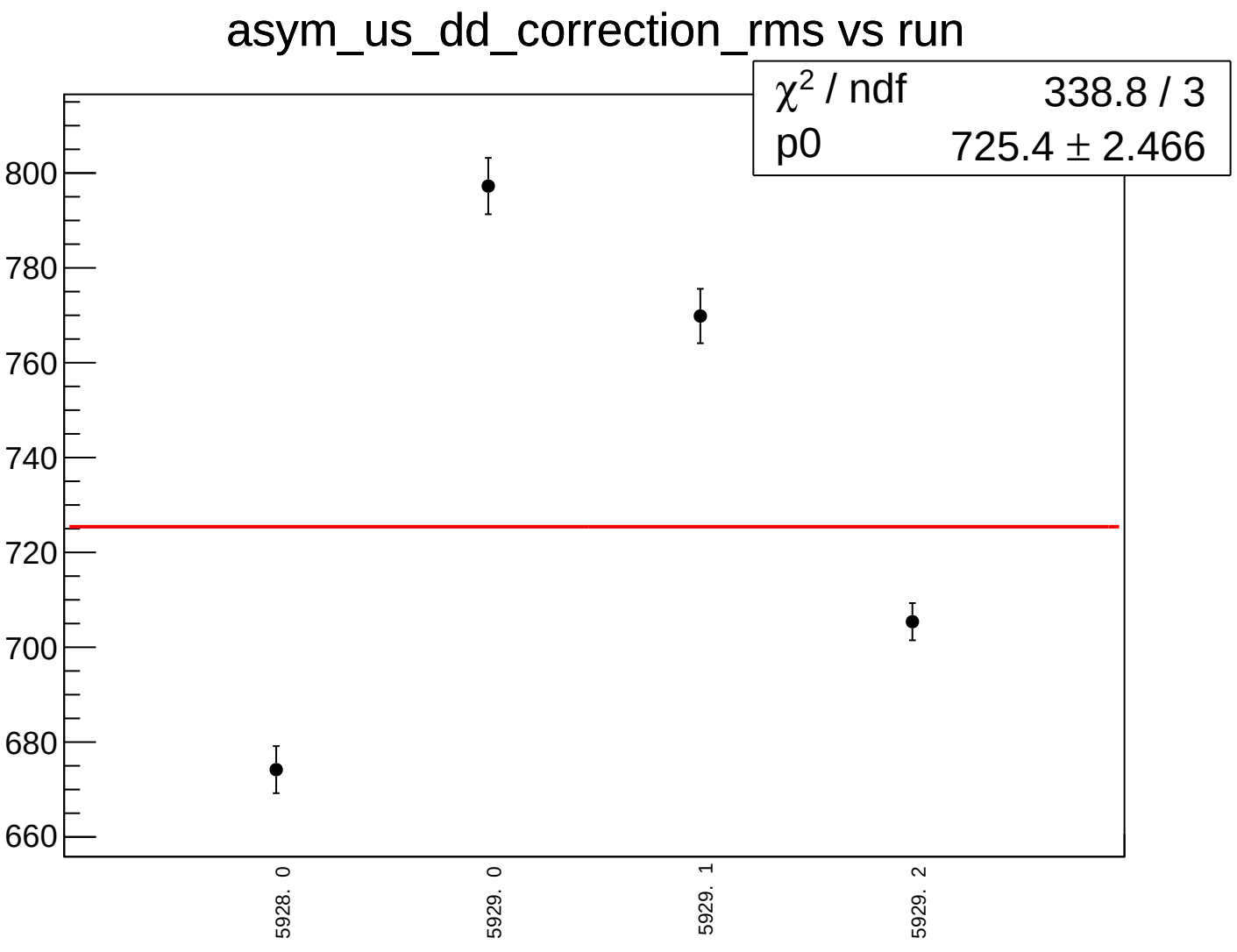

pull
Entries 4
Mean −6.455
Std Dev 8.451
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

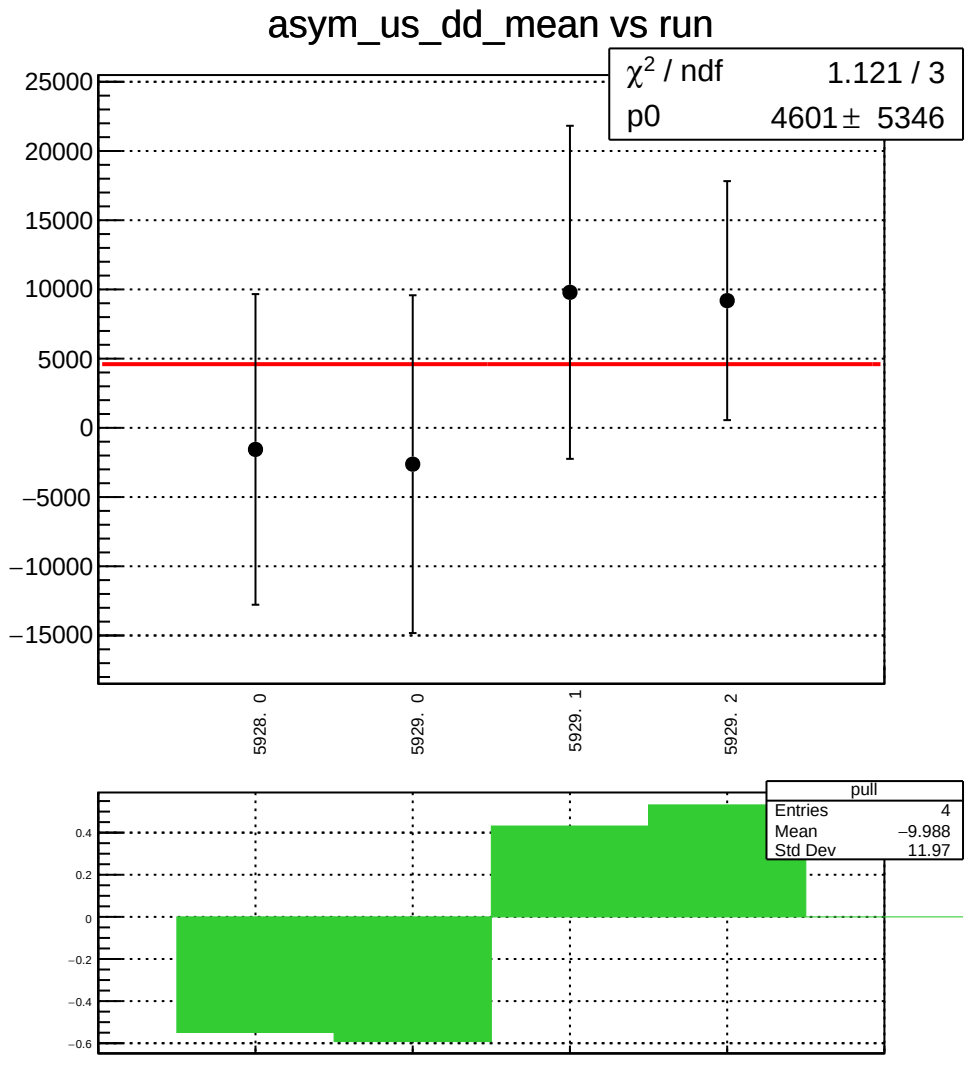

pull1D
Entries 4
Mean −0.06676
Std Dev 0.5816
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

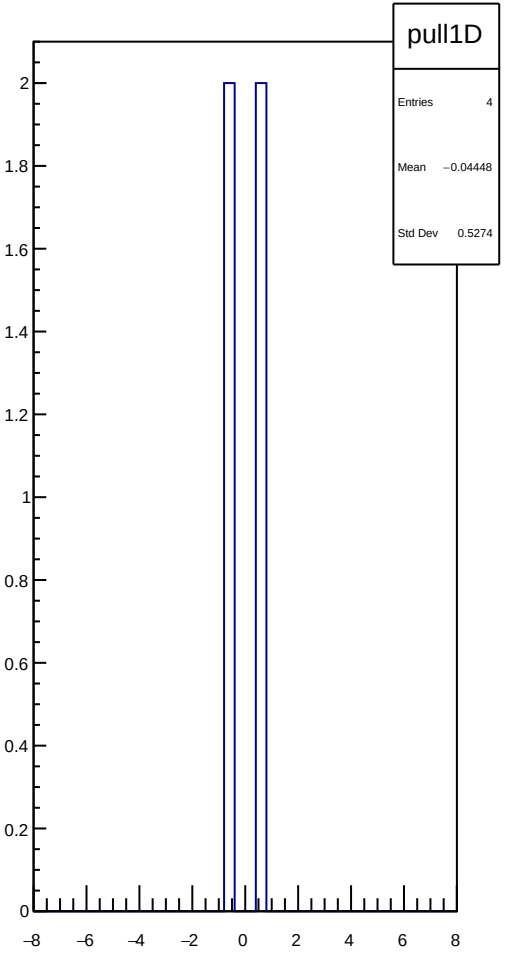

reg_asym_us_dd_rms vs run
χ² / ndf 0.194 / 3
p0 841.5 ± 2.855
850
848
846
844
842
840
838
836
834
832
5928. 0
5929. 0
5929. 1
5929. 2

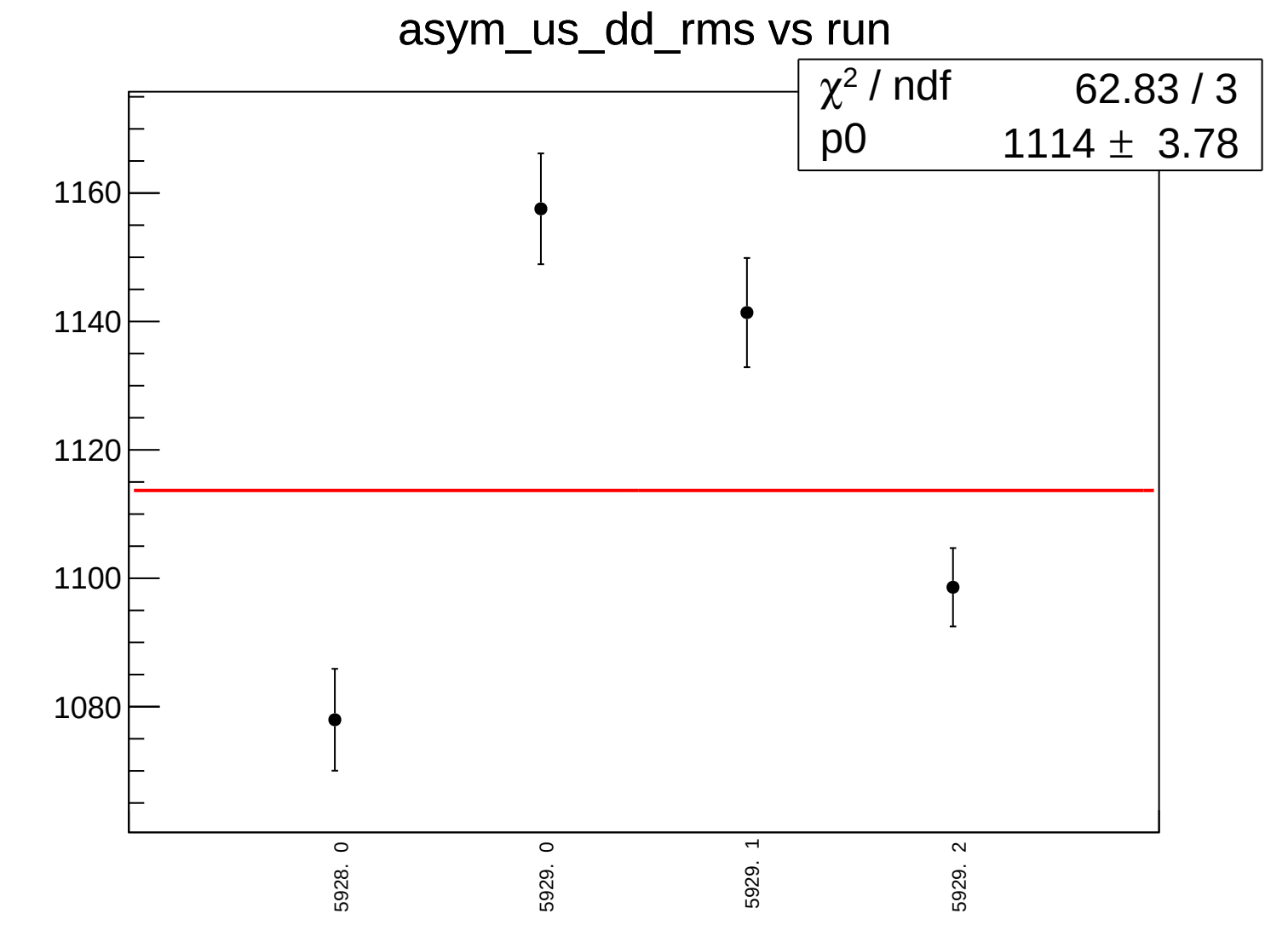

asym_us_dd_correction_mean vs run
χ² / ndf 1.694 / 3
p0 −5807 ± 3488
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 21.68
Std Dev 19.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

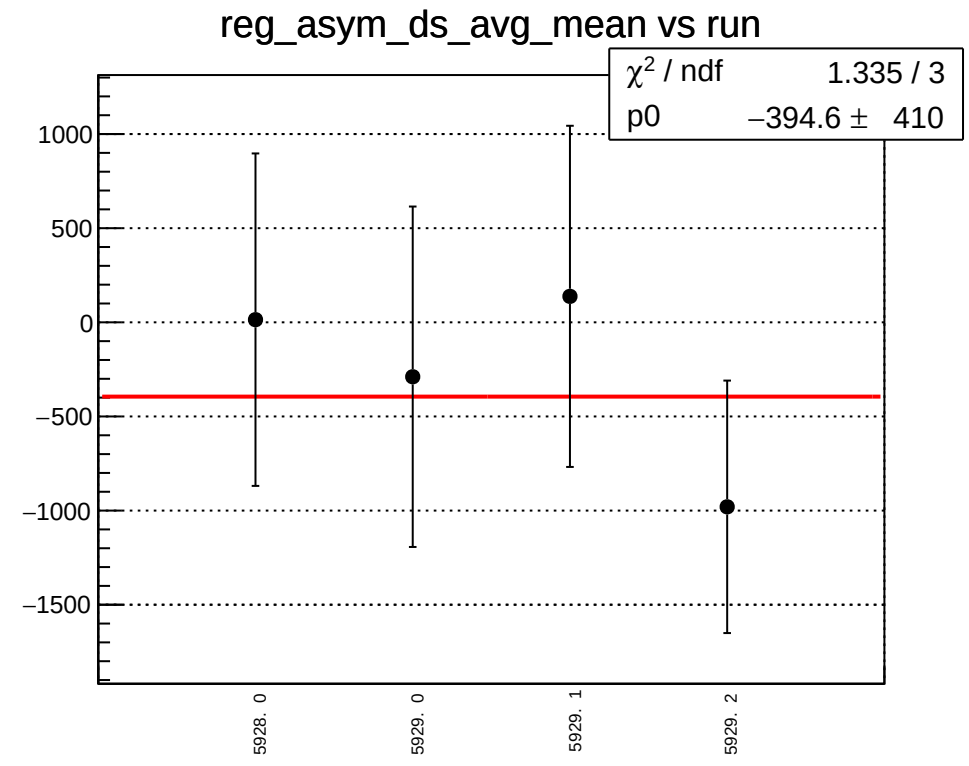

pull1D
Entries 4
Mean −0.006741
Std Dev 0.6507
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

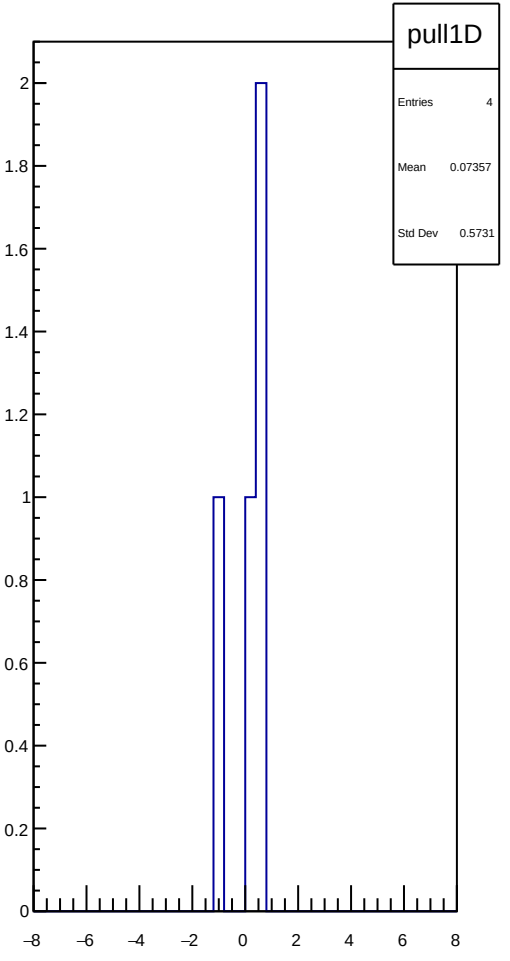

asym_us_dd_correction_rms vs run
χ² / ndf 338.8 / 3
p0 725.4 ± 2.466
800
780
760
740
720
700
680
660
5928. 0
5929. 0
5929. 1
5929. 2

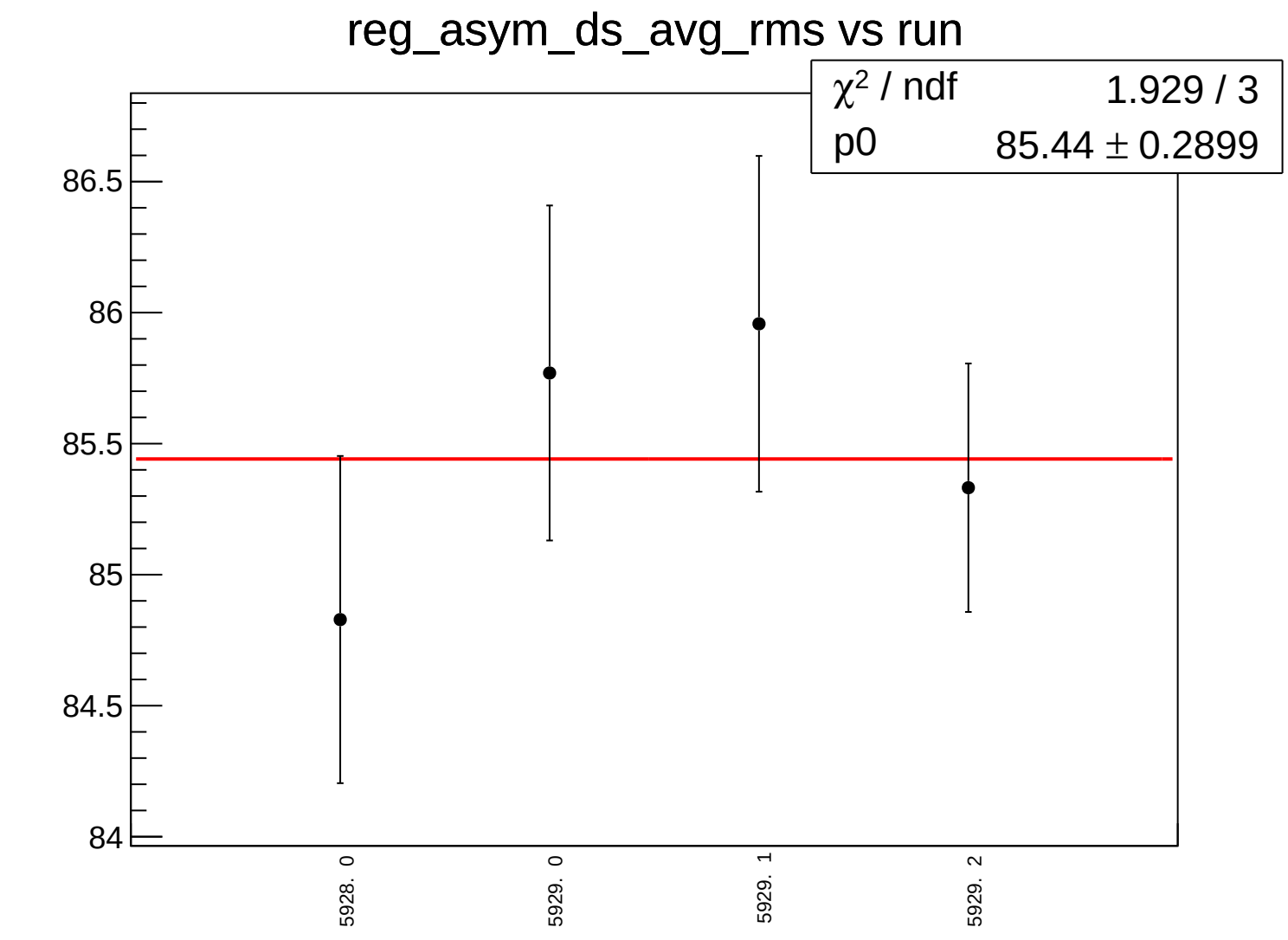

asym_us_dd_mean vs run
χ² / ndf 1.121 / 3
p0 4601 ± 5346
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.988
Std Dev 11.97
0.4
0.2
0
−0.2
−0.4
−0.6

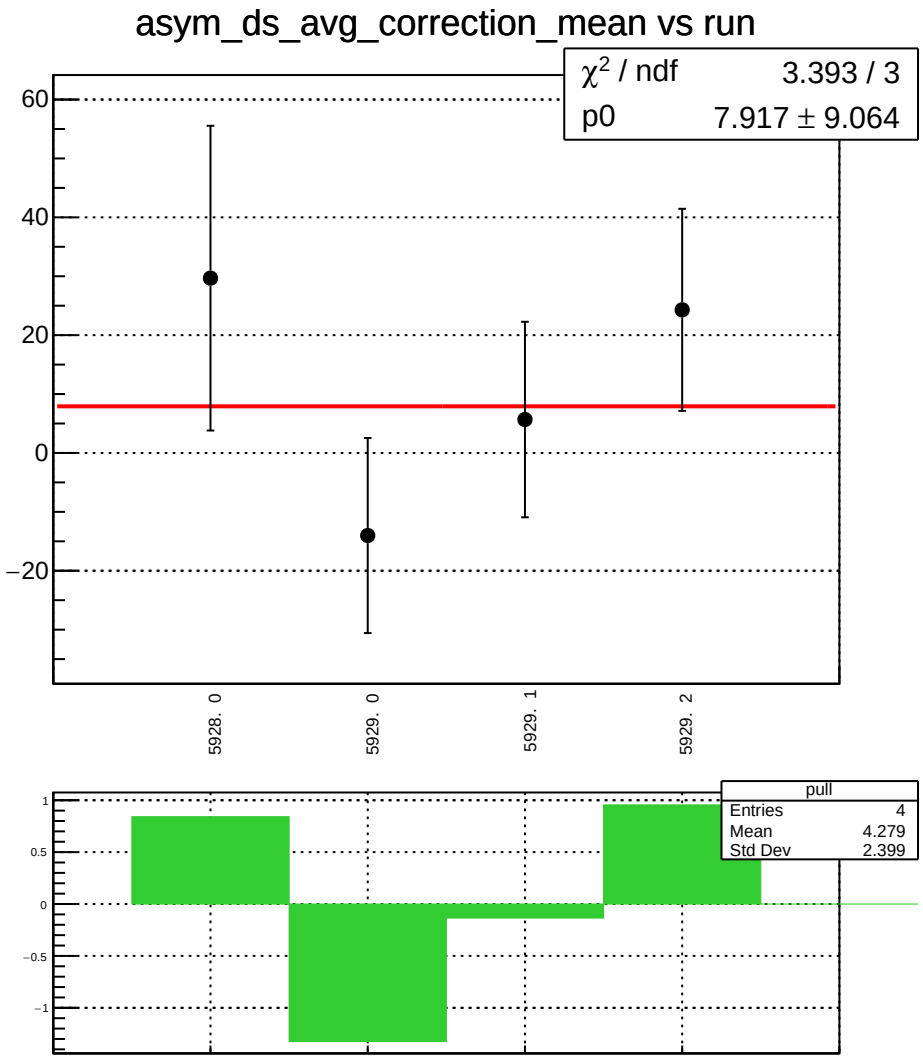

pull1D
Entries 4
Mean −0.04448
Std Dev 0.5274
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

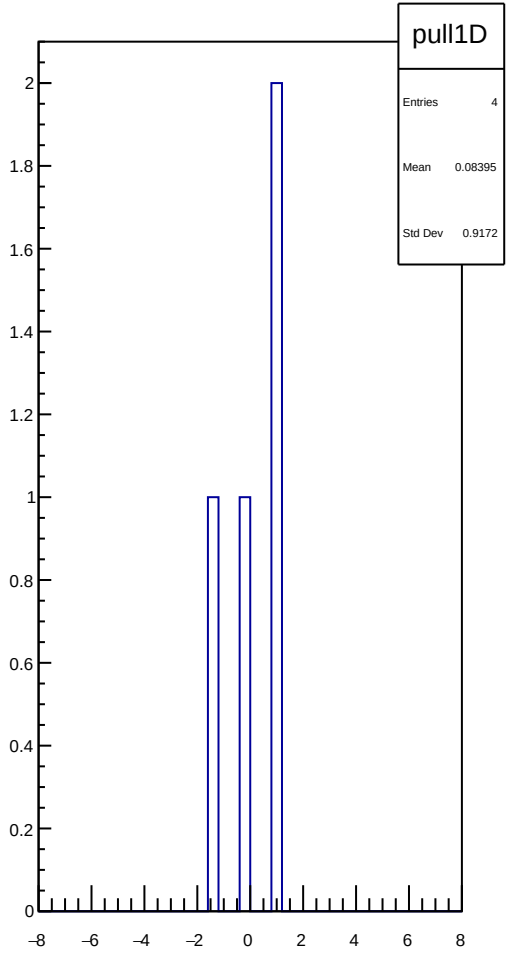

asym_us_dd_rms vs run
χ² / ndf 62.83 / 3
p0 1114 ± 3.78
1160
1140
1120
1100
1080
5928. 0
5929. 0
5929. 1
5929. 2

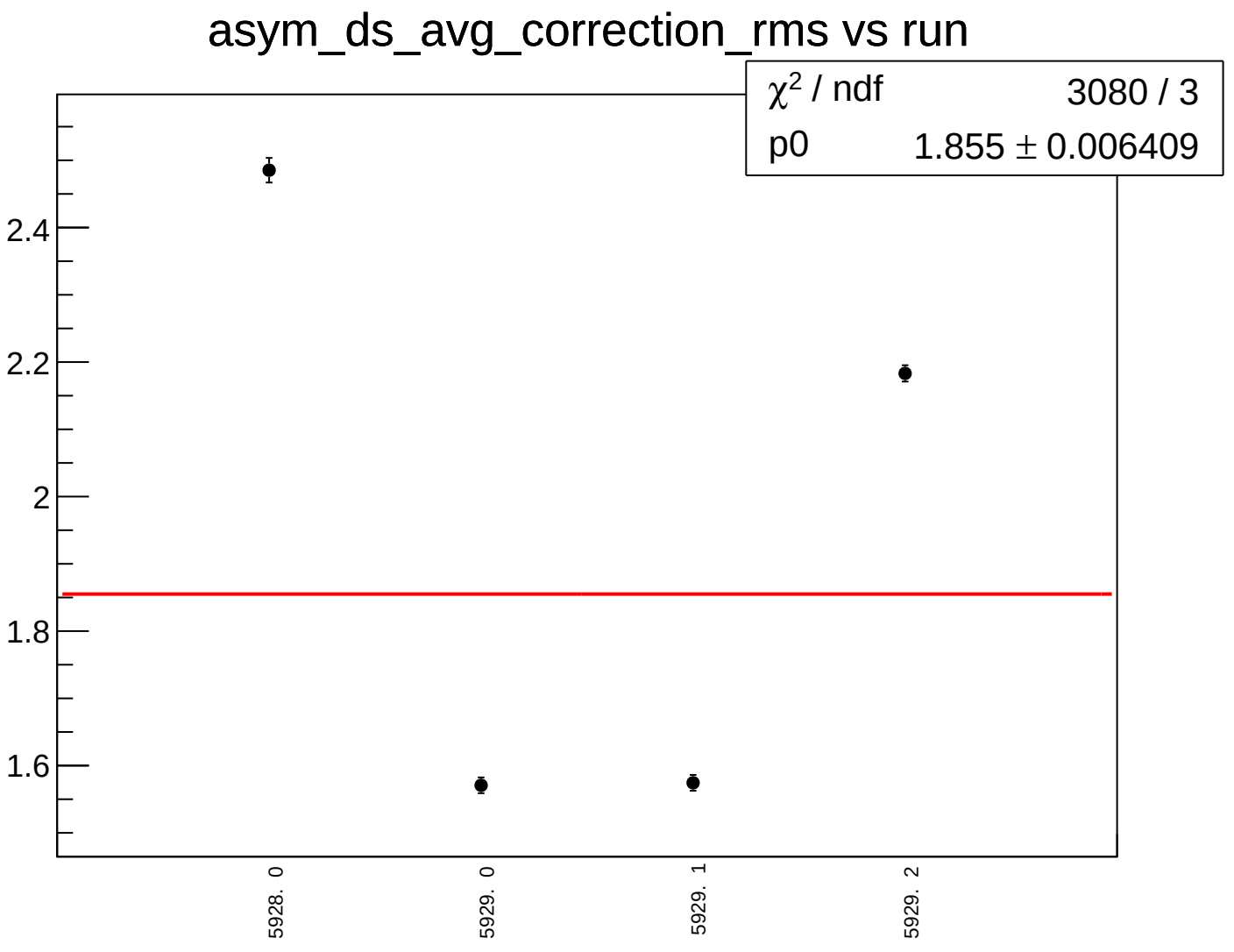

reg_asym_ds_avg_mean vs run
χ² / ndf 1.335 / 3
p0 −394.6 ± 410
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.009
Std Dev 6.216
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

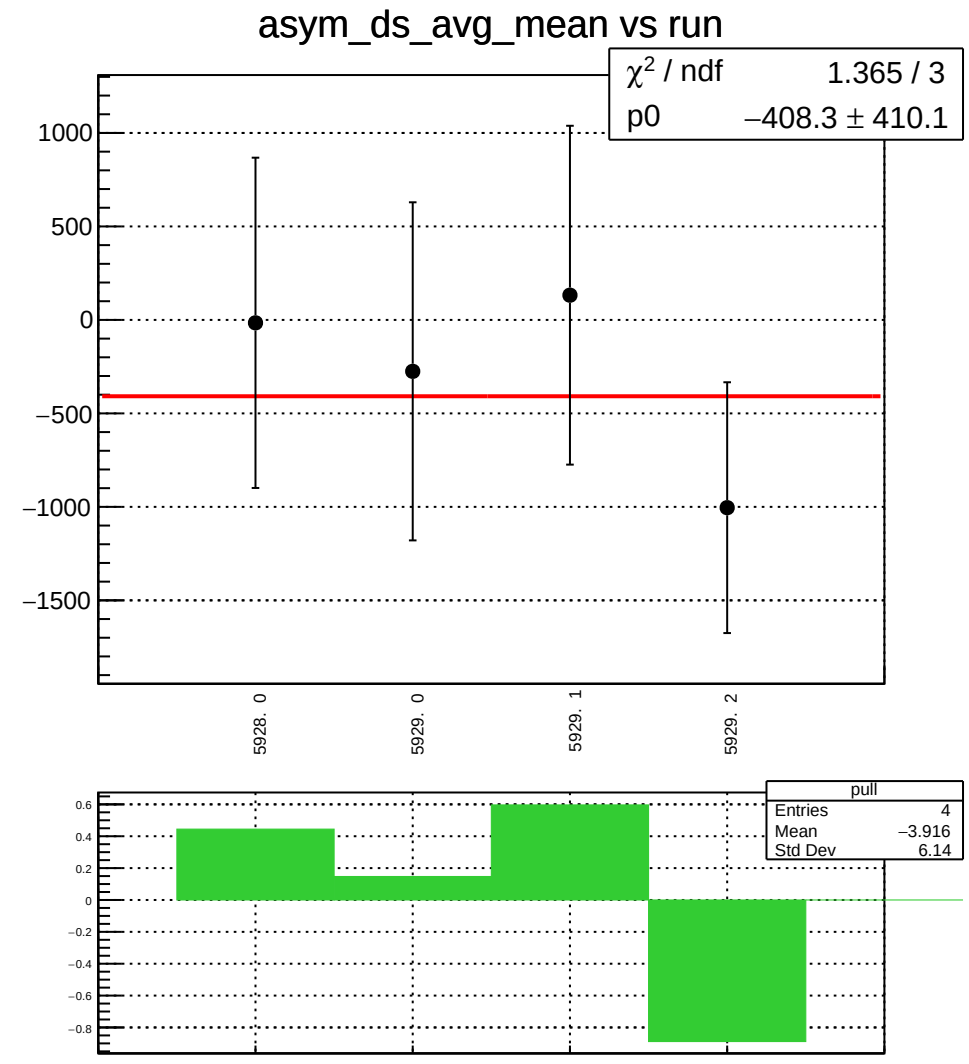

pull1D
Entries 4
Mean 0.07357
Std Dev 0.5731
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

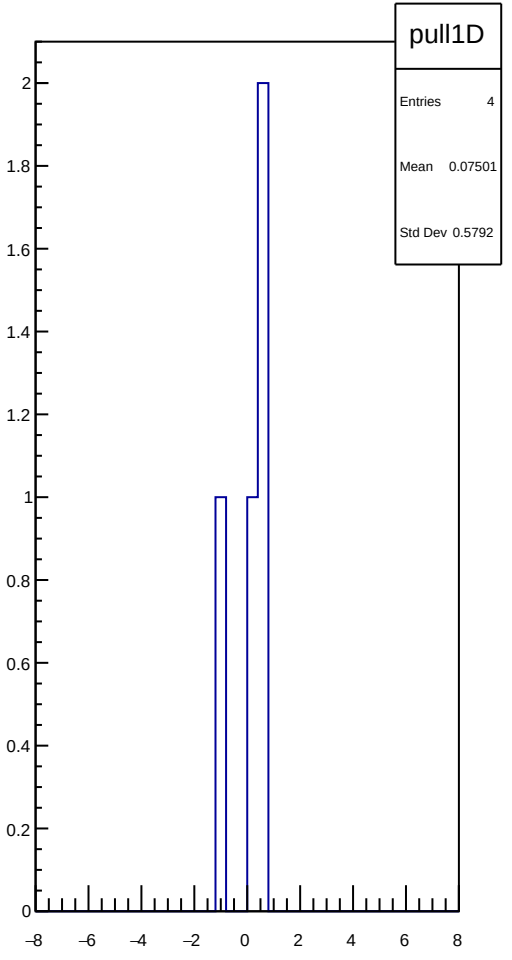

reg_asym_ds_avg_rms vs run
χ² / ndf 1.929 / 3
p0 85.44 ± 0.2899
86.5
86
85.5
85
84.5
84
5928. 0
5929. 0
5929. 1
5929. 2

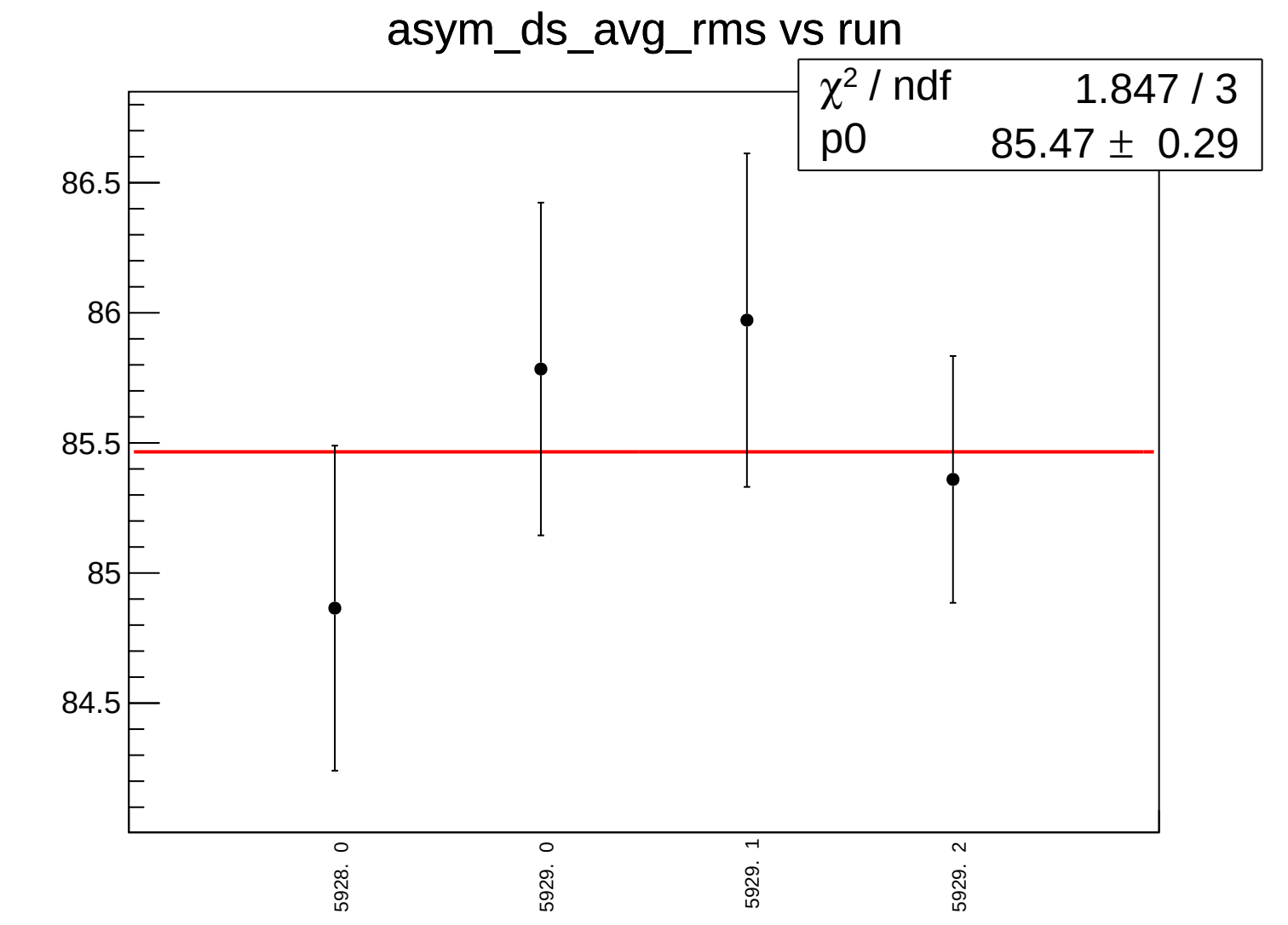

asym_ds_avg_correction_mean vs run
χ² / ndf 3.393 / 3
p0 7.917 ± 9.064
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.279
Std Dev 2.399
1
0.5
0
−0.5
−1

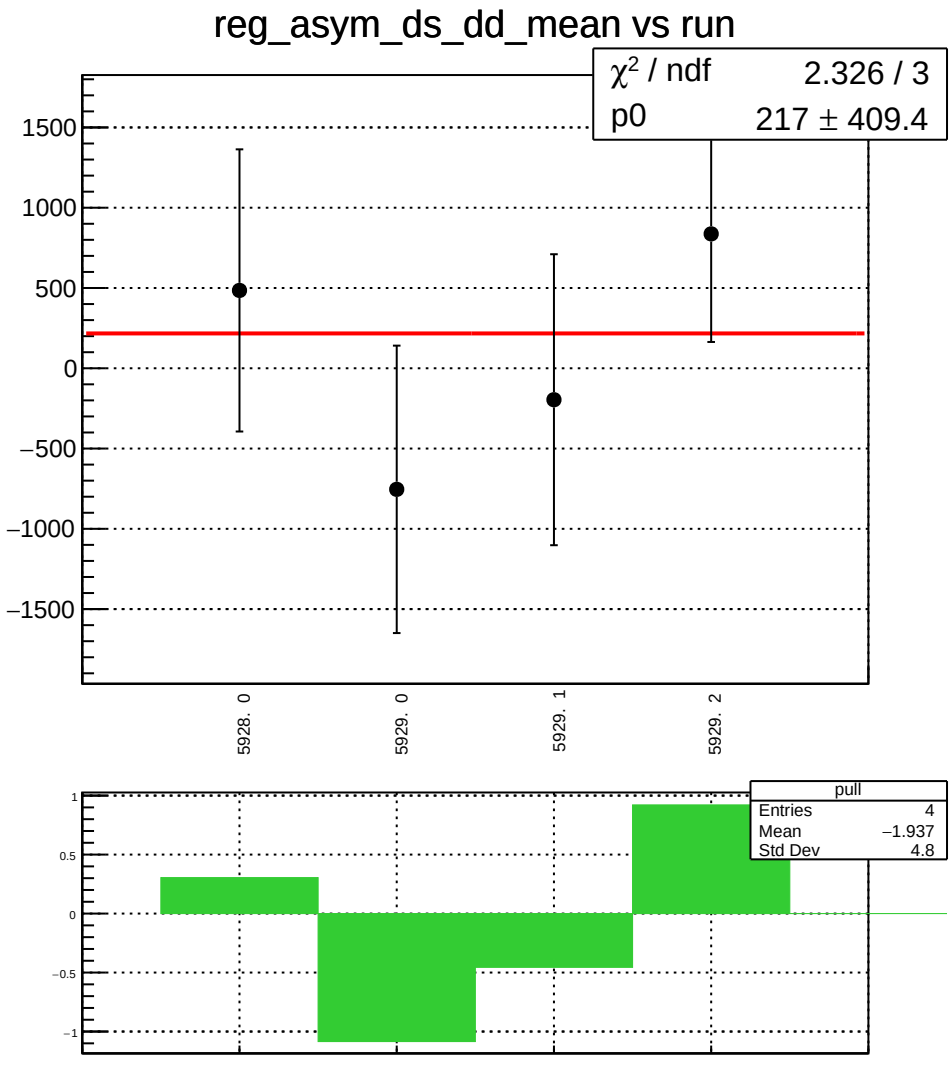

pull1D
Entries 4
Mean 0.08395
Std Dev 0.9172
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

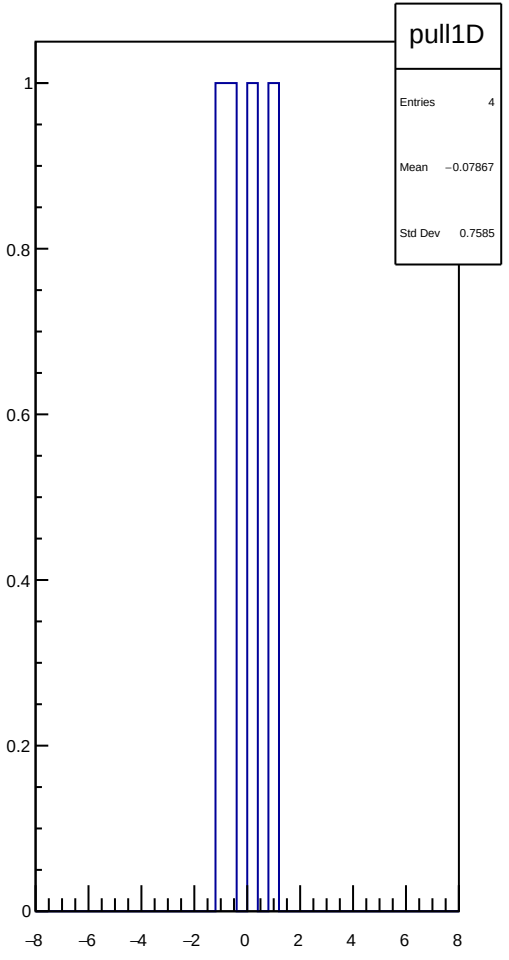

asym_ds_avg_correction_rms vs run
χ² / ndf 3080 / 3
p0 1.855 ± 0.006409
2.4
2.2
2
1.8
1.6
5928. 0
5929. 0
5929. 1
5929. 2

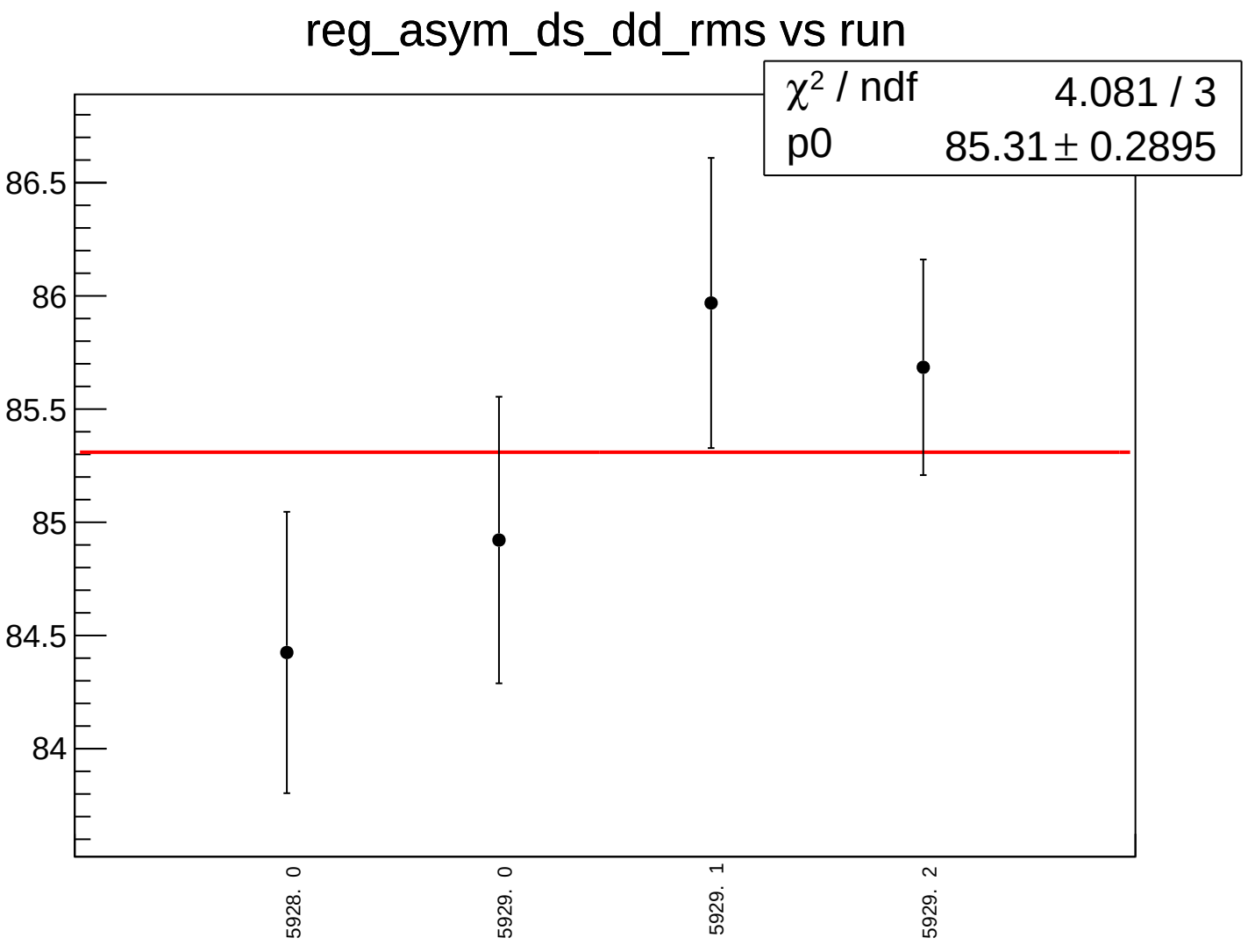

asym_ds_avg_mean vs run
χ² / ndf 1.365 / 3
p0 −408.3 ± 410.1
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.916
Std Dev 6.14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

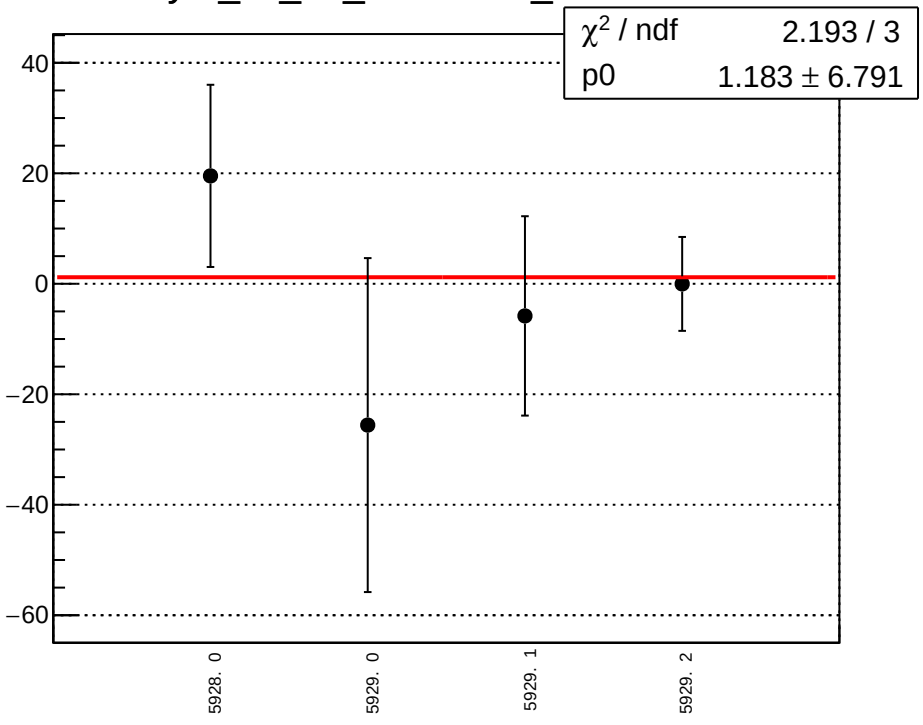

pull1D
Entries 4
Mean 0.07501
Std Dev 0.5792
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

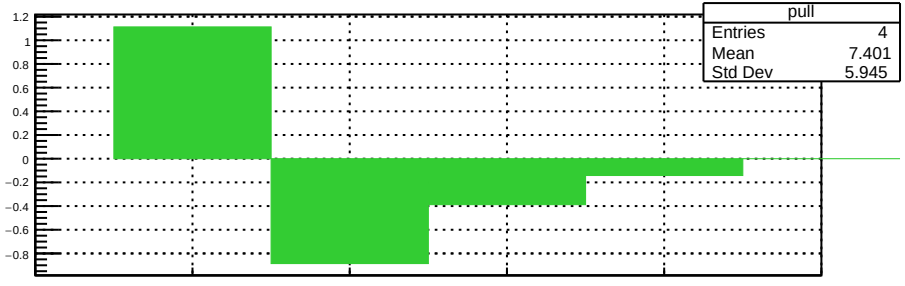

asym_ds_avg_rms vs run
χ² / ndf 1.847 / 3
p0 85.47 ± 0.29
86.5
86
85.5
85
84.5
5928. 0
5929. 0
5929. 1
5929. 2

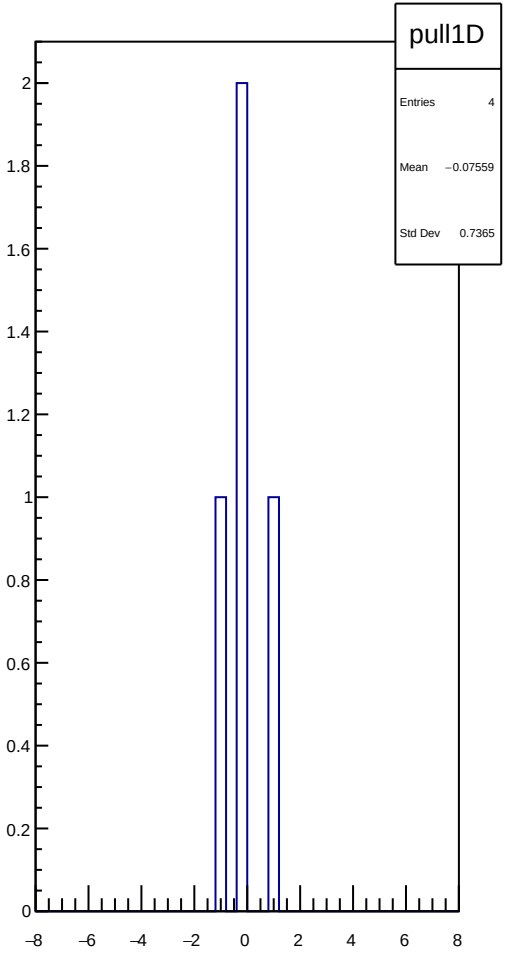

reg_asym_ds_dd_mean vs run
χ² / ndf 2.326 / 3
p0 217 ± 409.4
1500
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.937
Std Dev 4.8
1
0.5
0
−0.5
−1

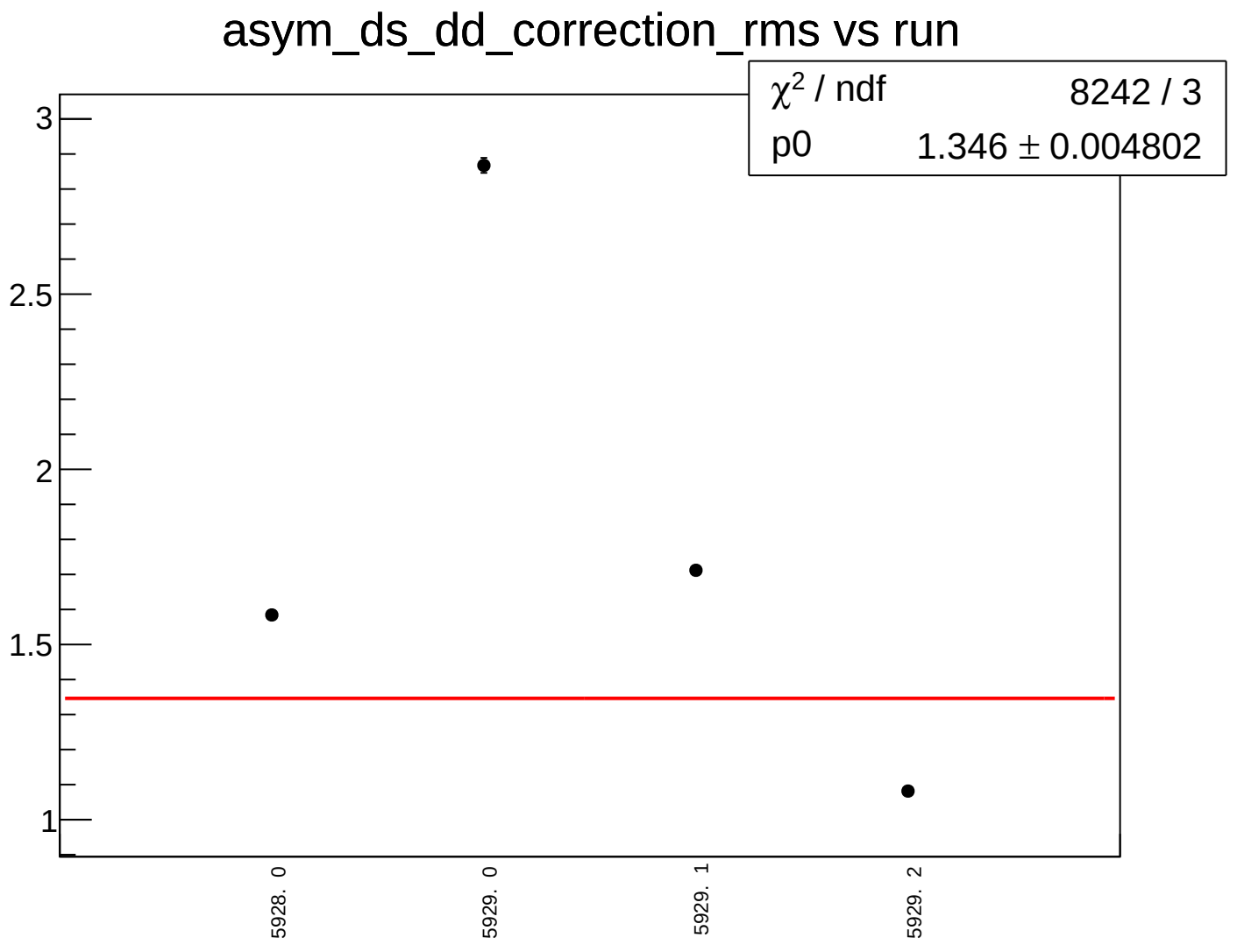

pull1D
Entries 4
Mean −0.07867
Std Dev 0.7585
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

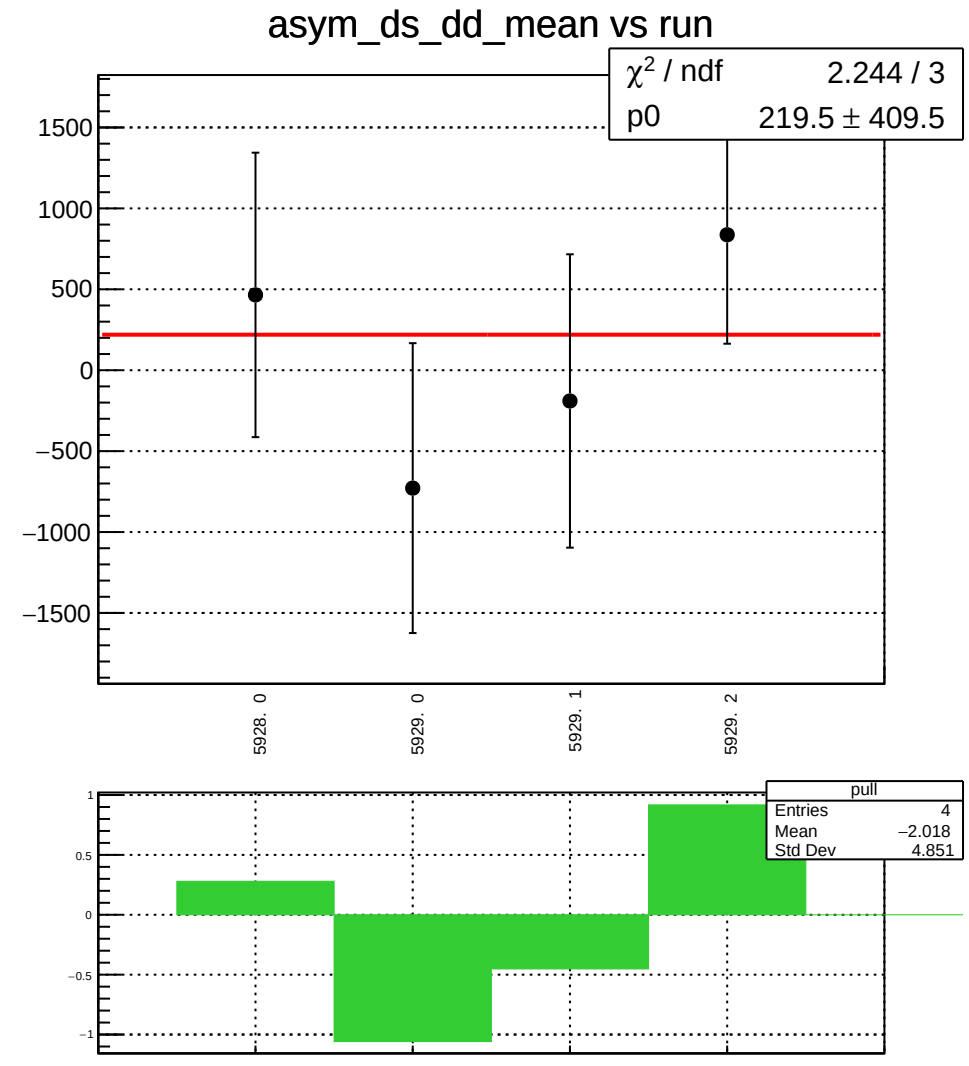

reg_asym_ds_dd_rms vs run
χ² / ndf 4.081 / 3
p0 85.31 ± 0.2895
86.5
86
85.5
85
84.5
84
5928. 0
5929. 0
5929. 1
5929. 2

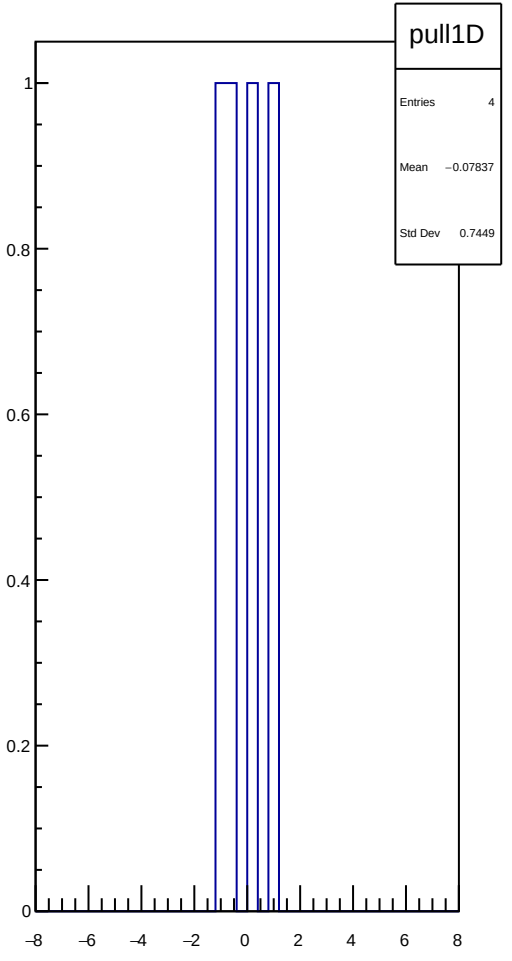

asym_ds_dd_correction_mean vs run
χ² / ndf 2.193 / 3
p0 1.183 ± 6.791
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2

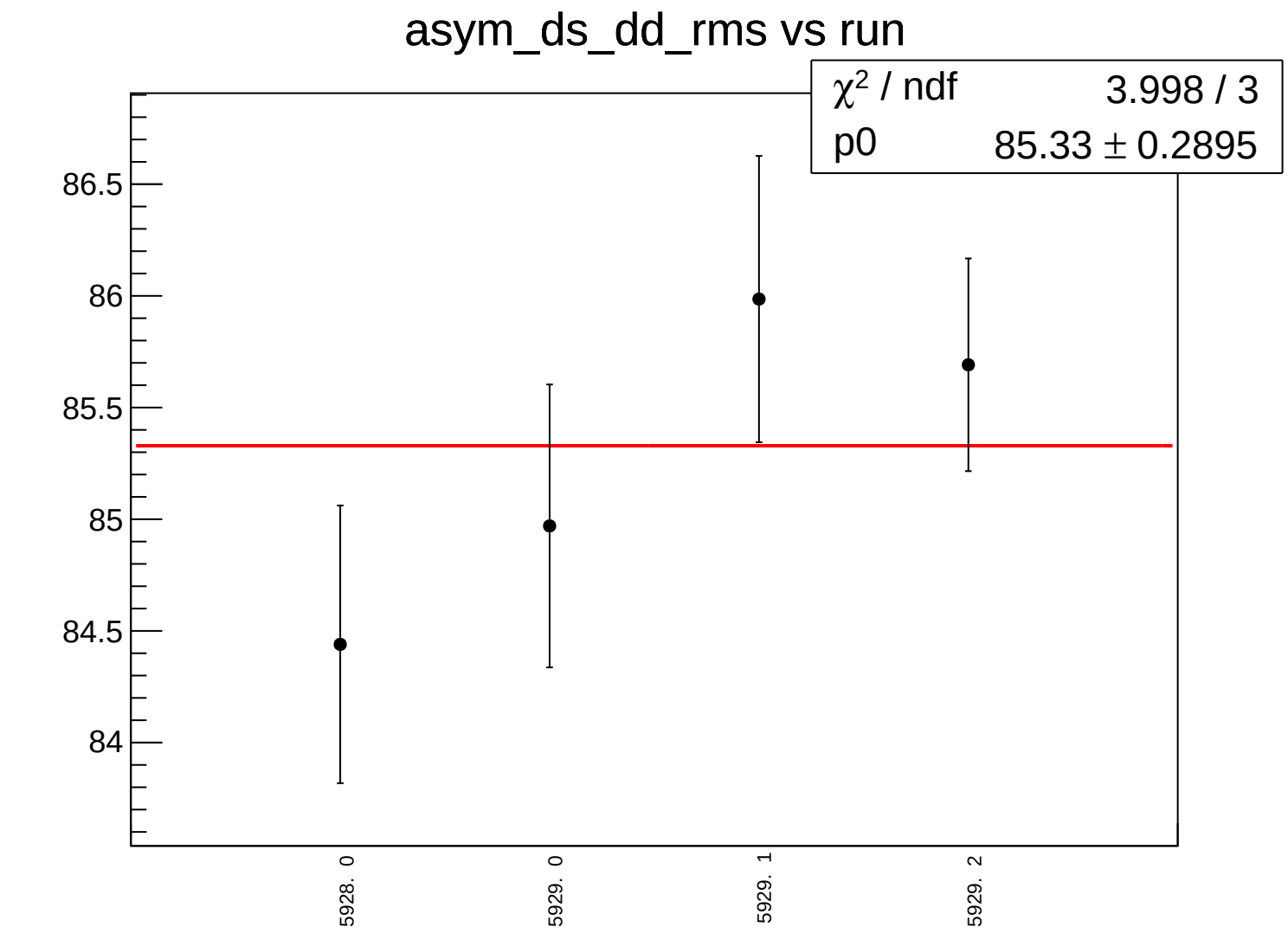

pull
Entries 4
Mean 7.401
Std Dev 5.945
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

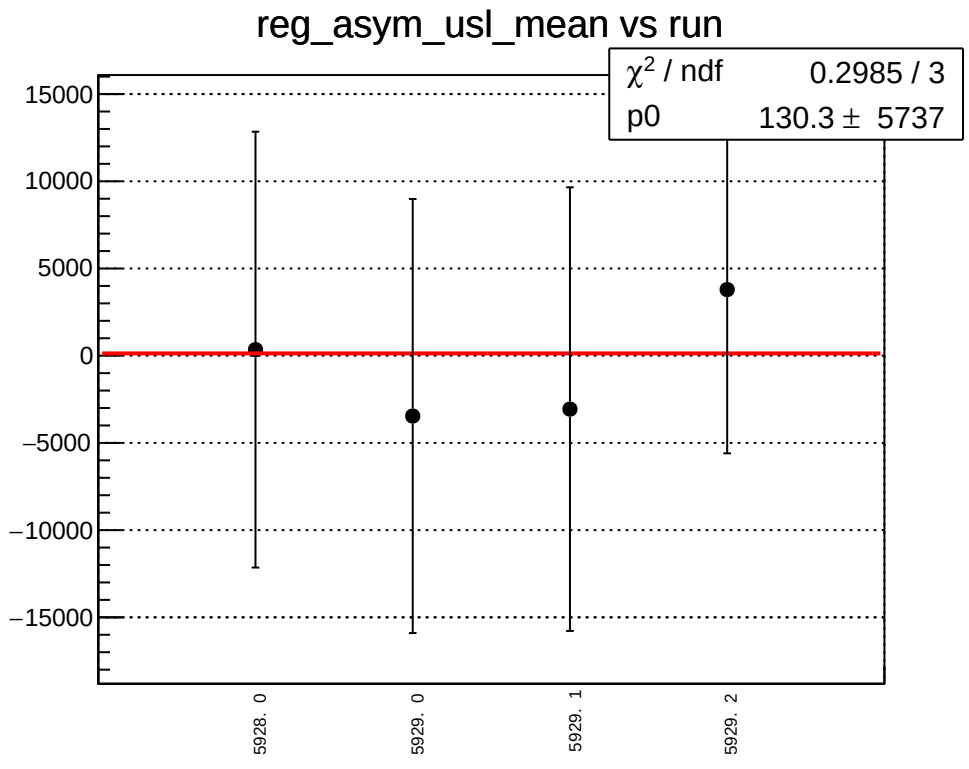

pull1D
Entries 4
Mean −0.07559
Std Dev 0.7365
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

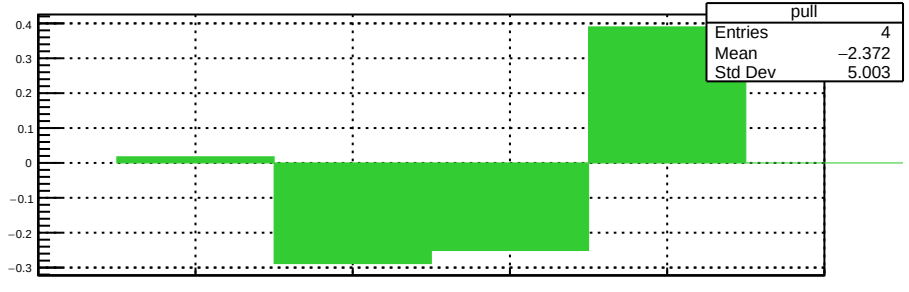

asym_ds_dd_correction_rms vs run
χ2 / ndf 8242 / 3
p0 1.346 ± 0.004802
3
2.5
2
1.5
1
5928. 0
5929. 0
5929. 1
5929. 2

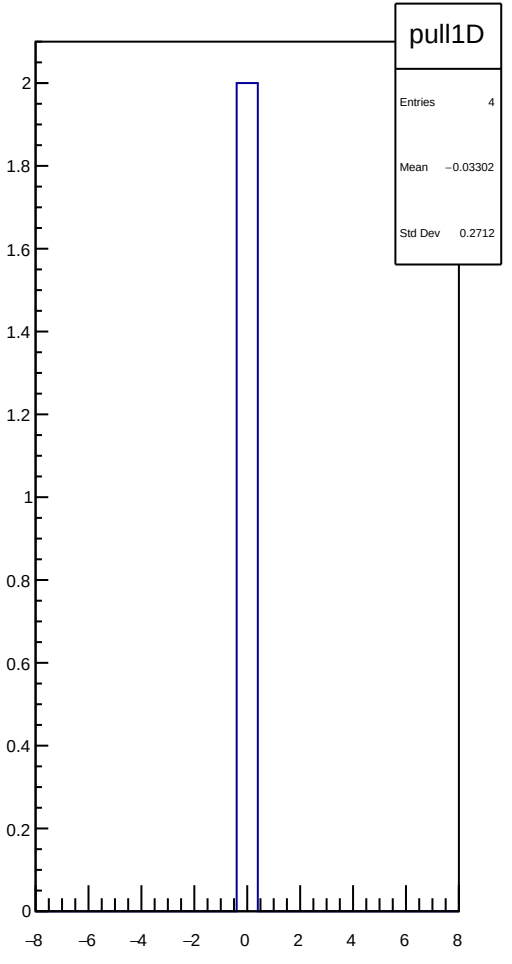

asym_ds_dd_mean vs run
χ² / ndf 2.244 / 3
p0 219.5 ± 409.5
1500
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.018
Std Dev 4.851
1
0.5
0
−0.5
−1

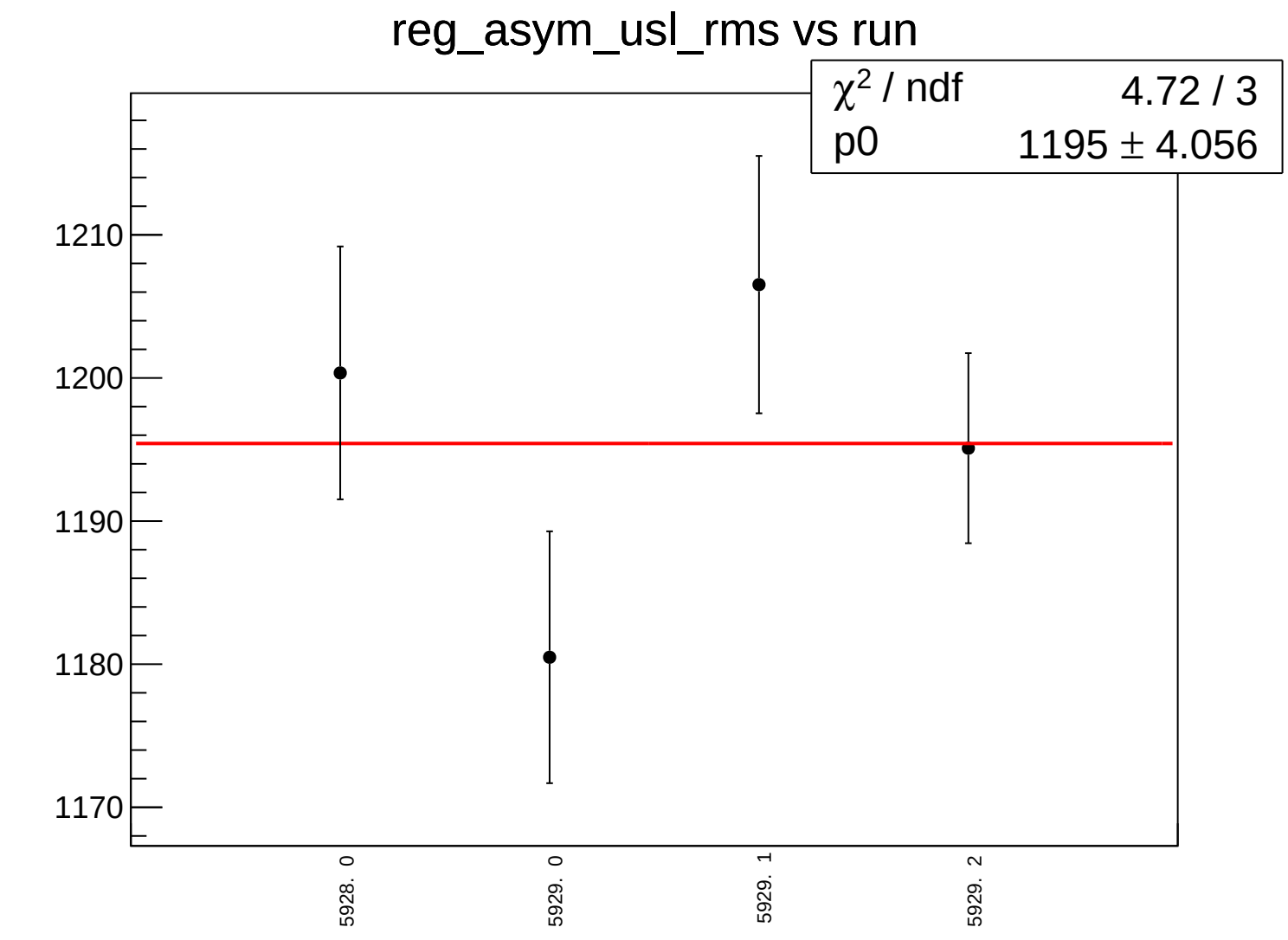

pull1D
Entries 4
Mean −0.07837
Std Dev 0.7449
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

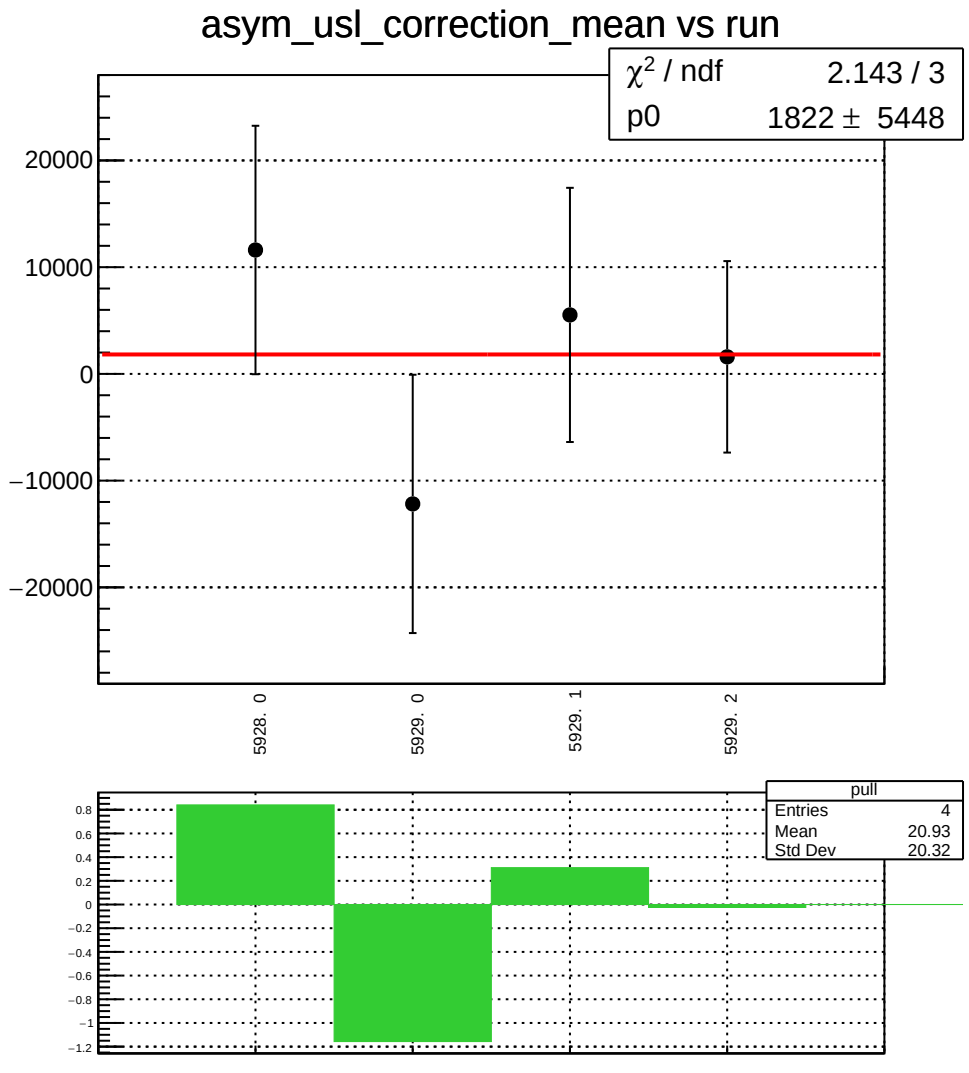

asym_ds_dd_rms vs run
χ² / ndf 3.998 / 3
p0 85.33 ± 0.2895
86.5
86
85.5
85
84.5
84
5928. 0
5929. 0
5929. 1
5929. 2

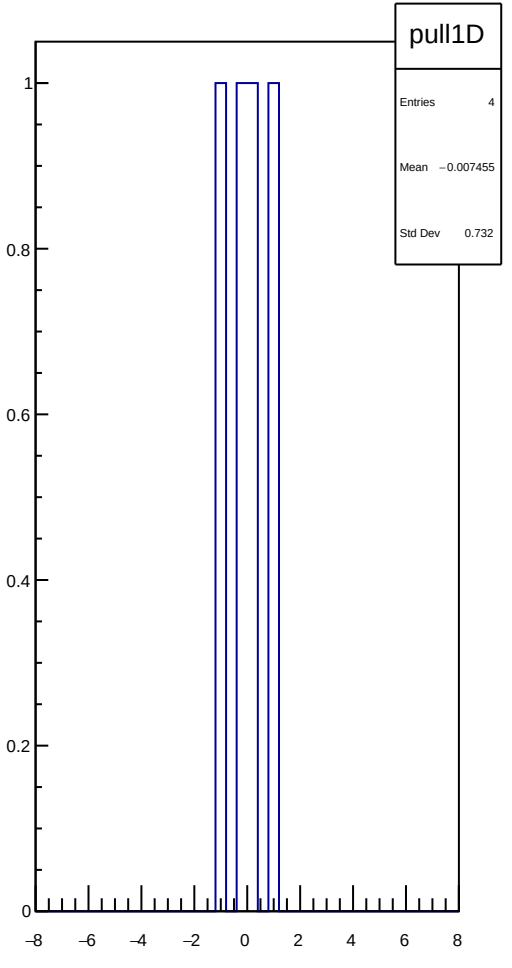

reg_asym_usl_mean vs run
χ² / ndf 0.2985 / 3
p0 130.3 ± 5737
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2

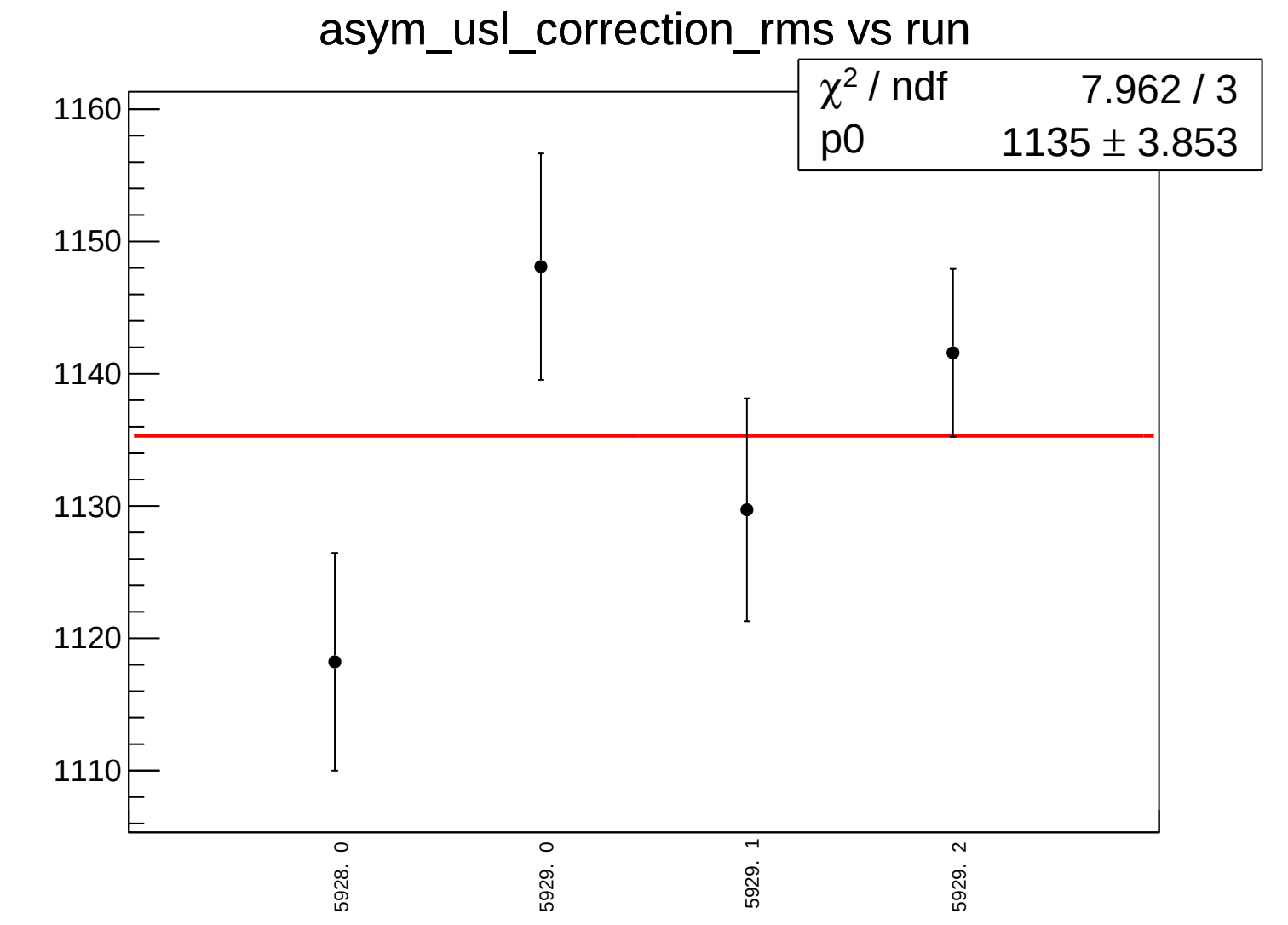

pull
Entries 4
Mean −2.372
Std Dev 5.003
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

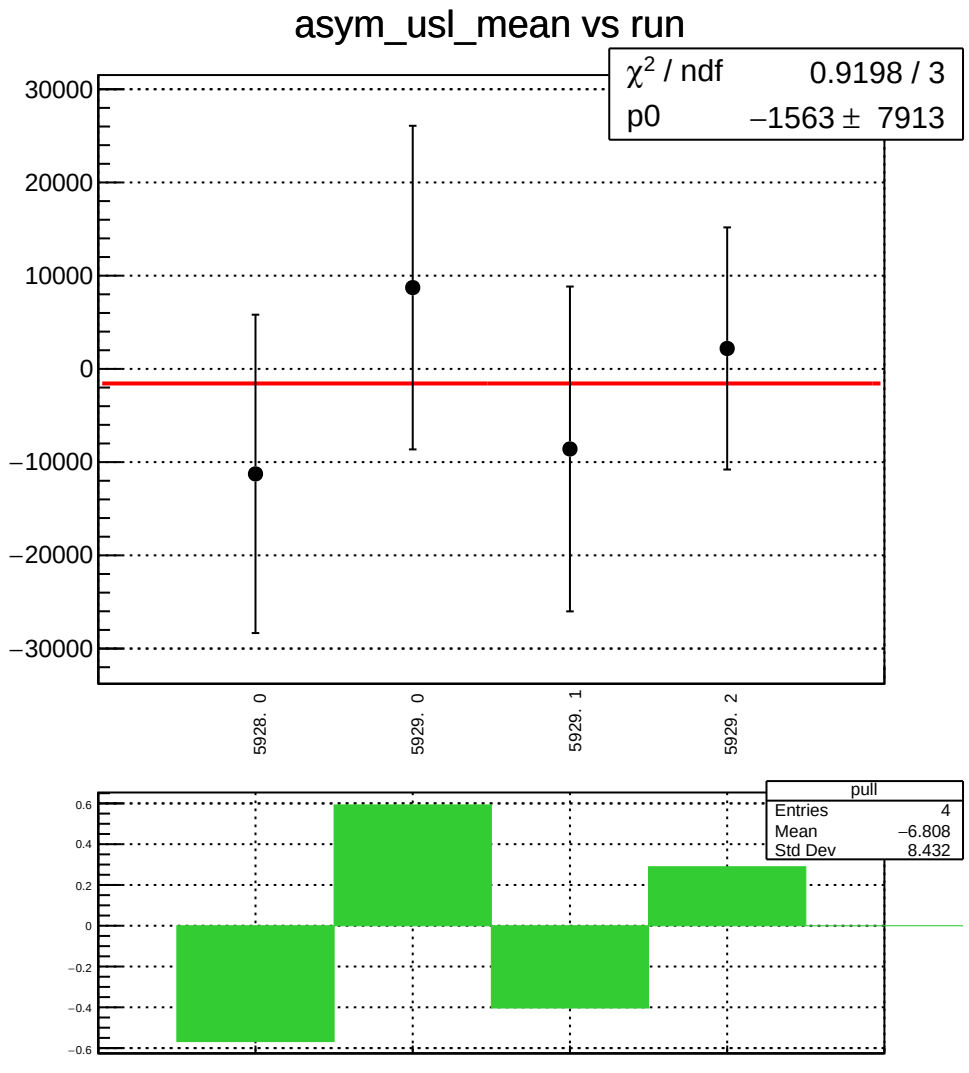

pull1D
Entries 4
Mean −0.03302
Std Dev 0.2712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

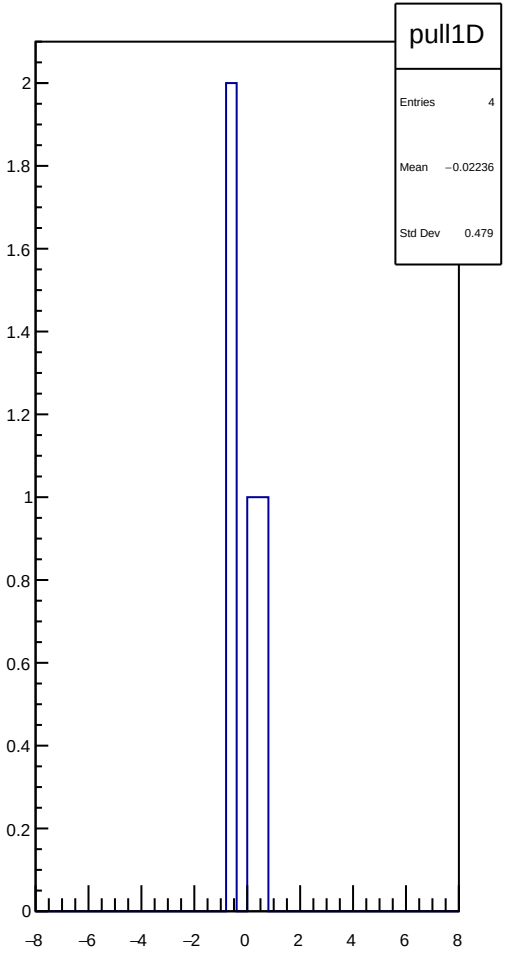

reg_asym_usl_rms vs run
χ² / ndf 4.72 / 3
p0 1195 ± 4.056
1210
1200
1190
1180
1170
5928. 0
5929. 0
5929. 1
5929. 2

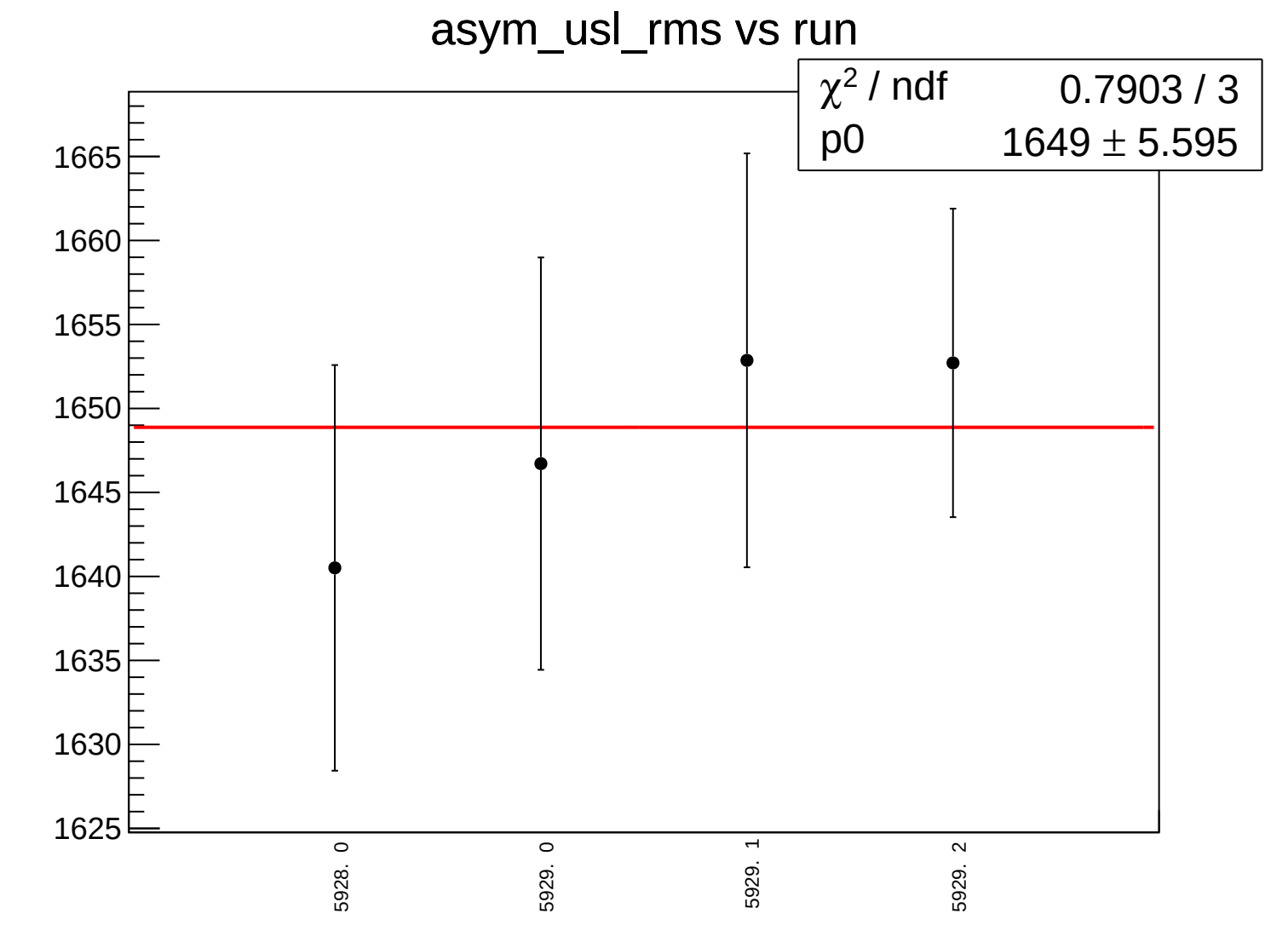

asym_usl_correction_mean vs run
χ² / ndf 2.143 / 3
p0 1822 ± 5448
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 20.93
Std Dev 20.32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

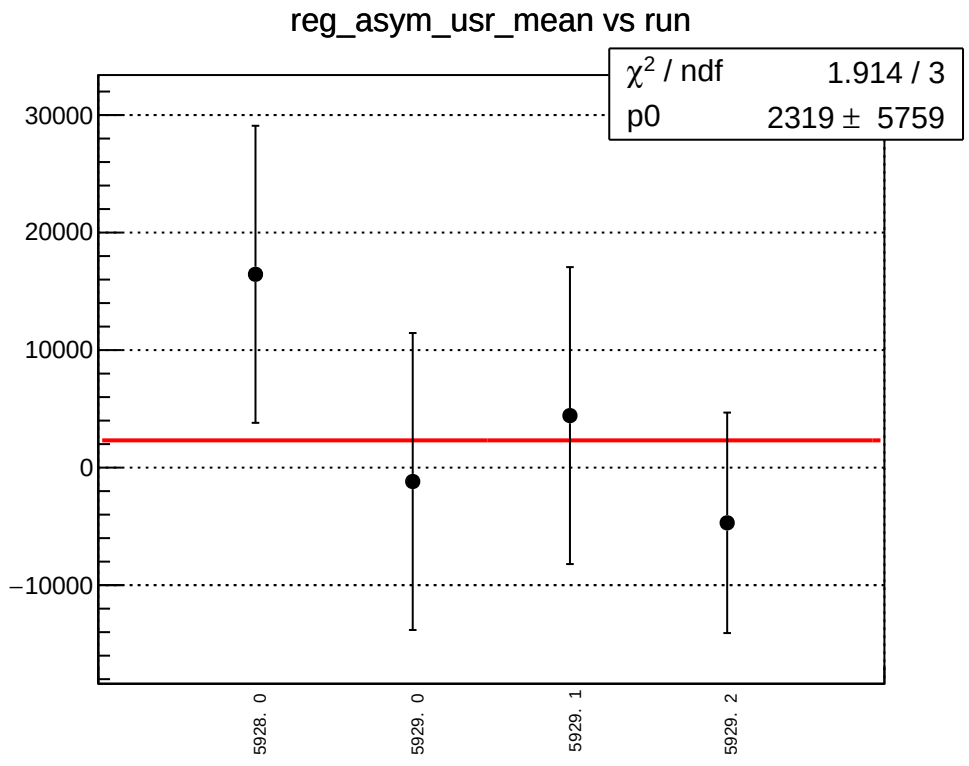

pull1D
Entries 4
Mean −0.007455
Std Dev 0.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

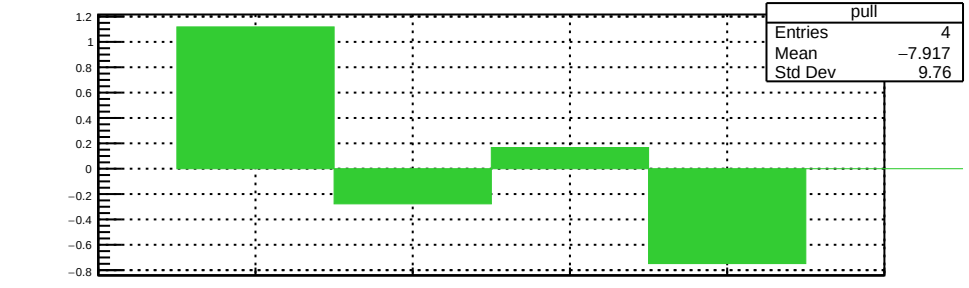

asym_usl_correction_rms vs run
χ² / ndf 7.962 / 3
p0 1135 ± 3.853
1160
1150
1140
1130
1120
1110
5928. 0
5929. 0
5929. 1
5929. 2

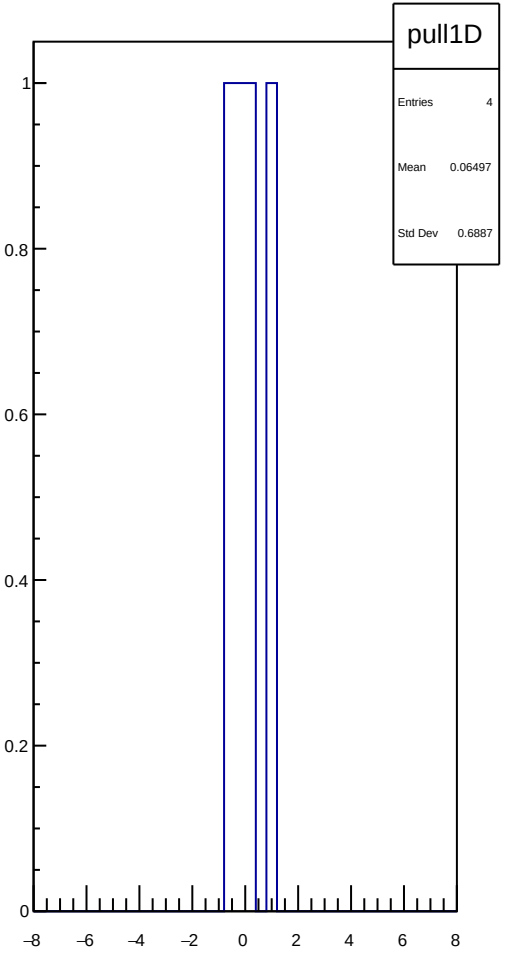

asym_usl_mean vs run
χ² / ndf 0.9198 / 3
p0 −1563 ± 7913
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.808
Std Dev 8.432
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

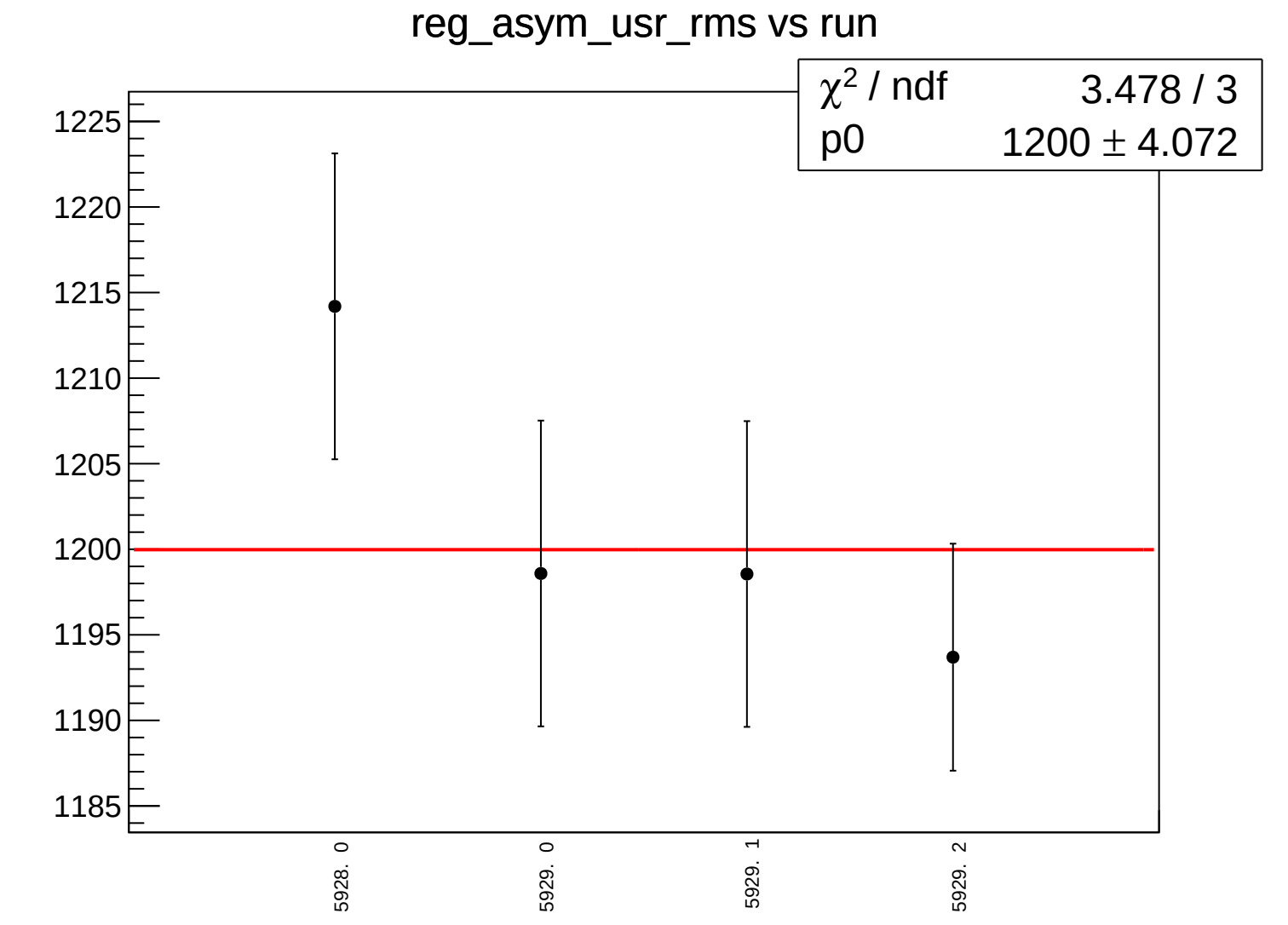

pull1D
Entries 4
Mean −0.02236
Std Dev 0.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

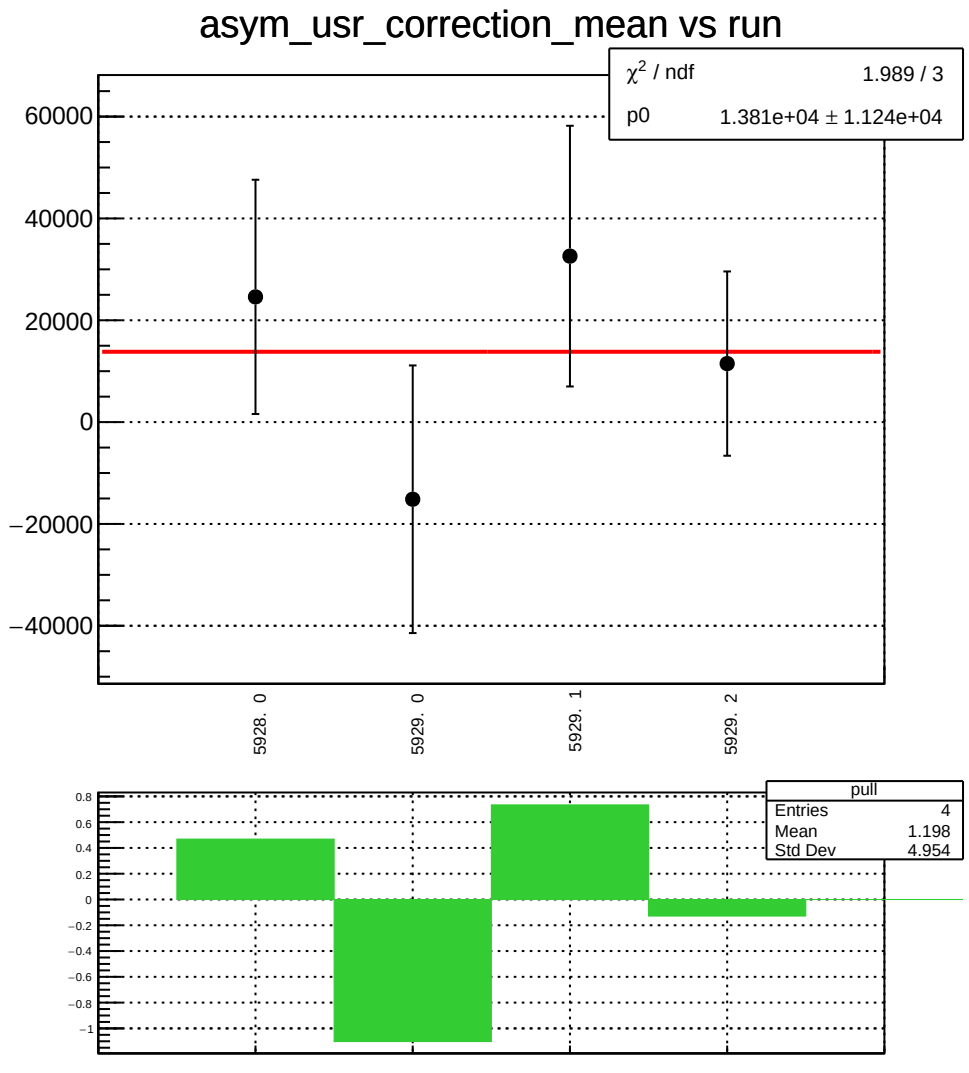

asym_usl_rms vs run
χ² / ndf 0.7903 / 3
p0 1649 ± 5.595
1665
1660
1655
1650
1645
1640
1635
1630
1625
5928. 0
5929. 0
5929. 1
5929. 2

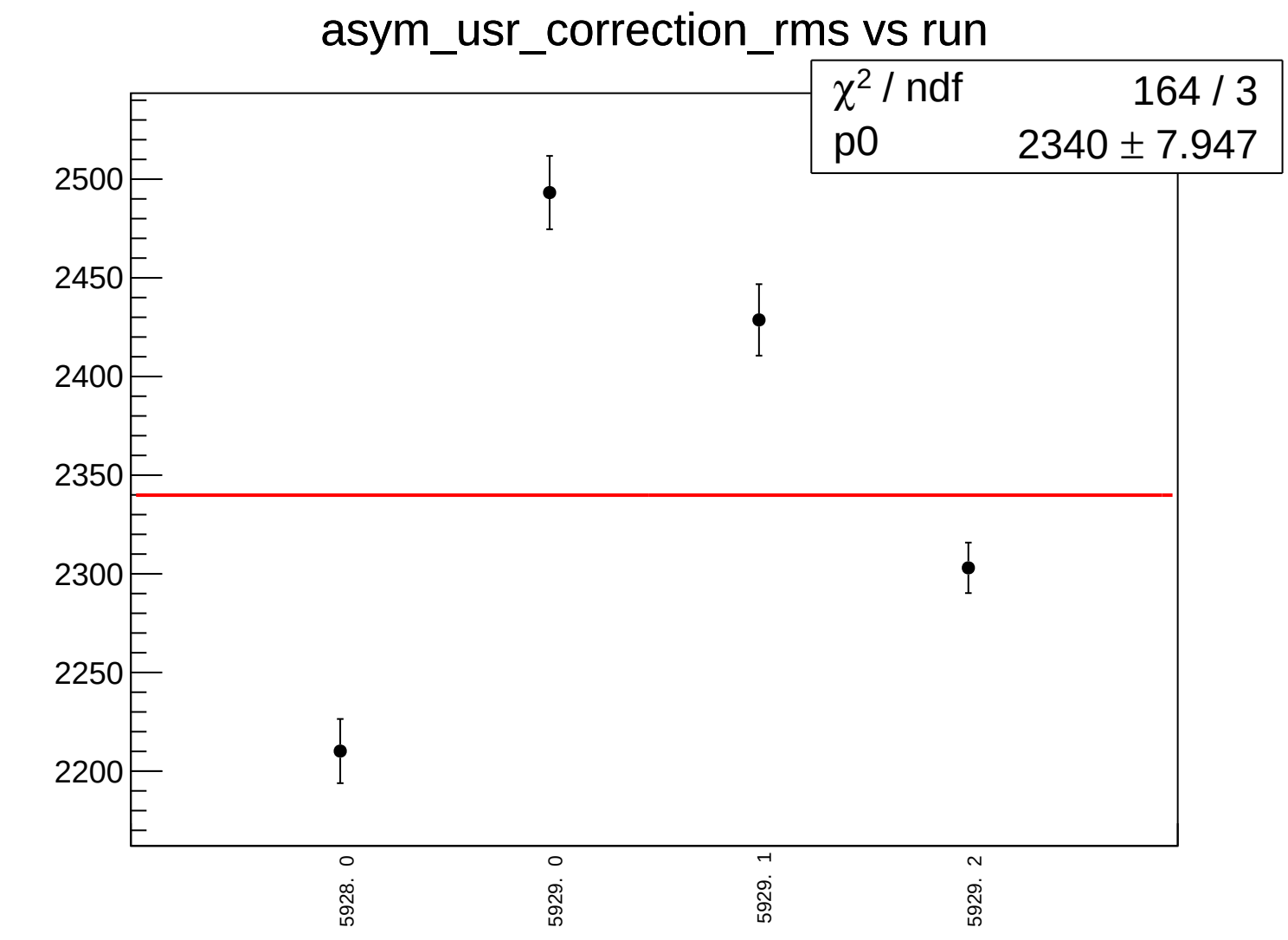

reg_asym_usr_mean vs run
χ² / ndf 1.914 / 3
p0 2319 ± 5759
30000
20000
10000
0
−10000
5928. 0
5929. 0
5929. 1
5929. 2

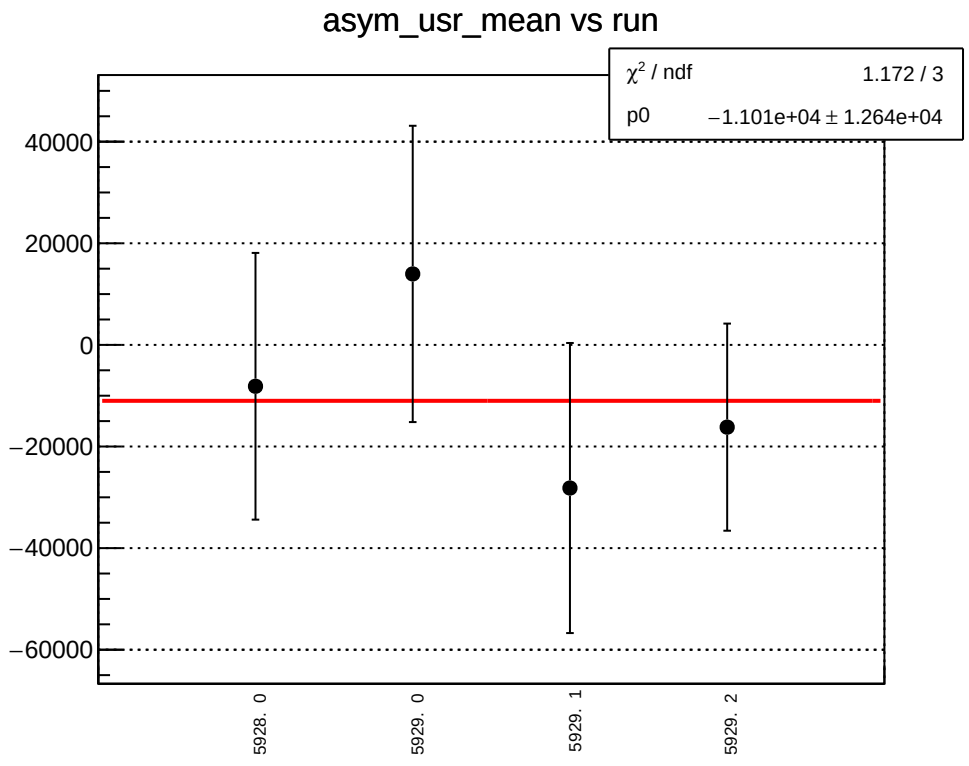

pull
Entries 4
Mean −7.917
Std Dev 9.76
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

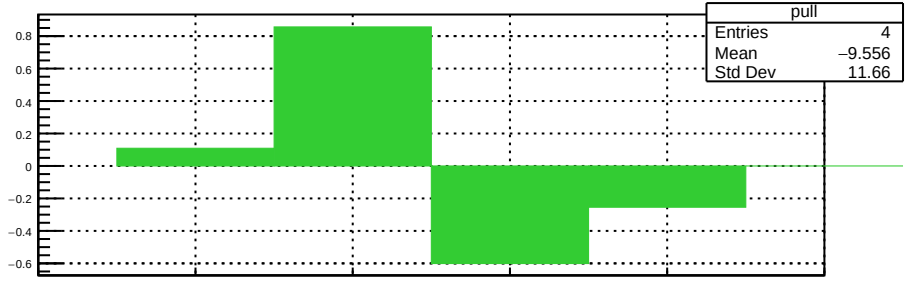

pull1D
Entries 4
Mean 0.06497
Std Dev 0.6887
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

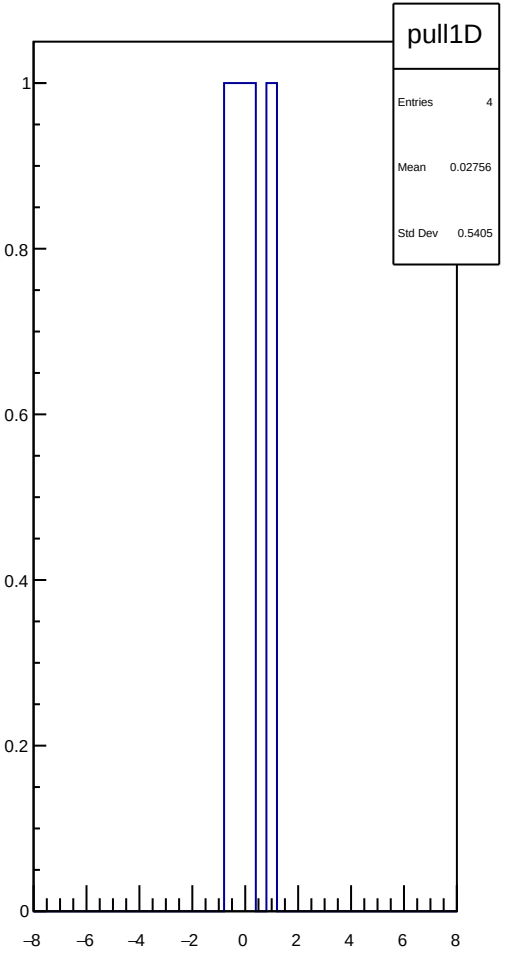

reg_asym_usr_rms vs run
χ² / ndf 3.478 / 3
p0 1200 ± 4.072
1225
1220
1215
1210
1205
1200
1195
1190
1185
5928. 0
5929. 0
5929. 1
5929. 2

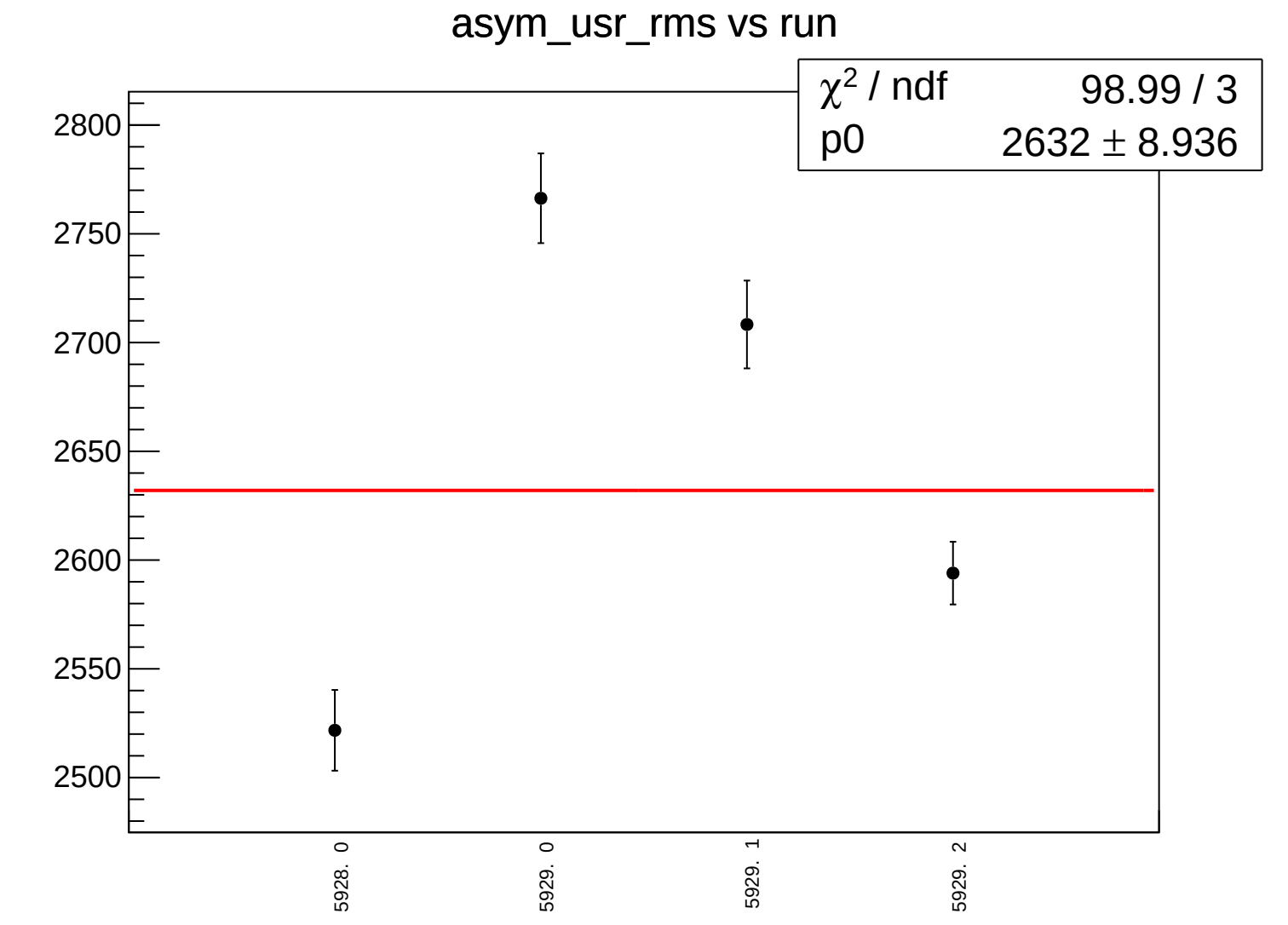

asym_usr_correction_mean vs run
χ² / ndf 1.989 / 3
p0 1.381e+04 ± 1.124e+04
60000
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.198
Std Dev 4.954
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.007044
Std Dev 0.7051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

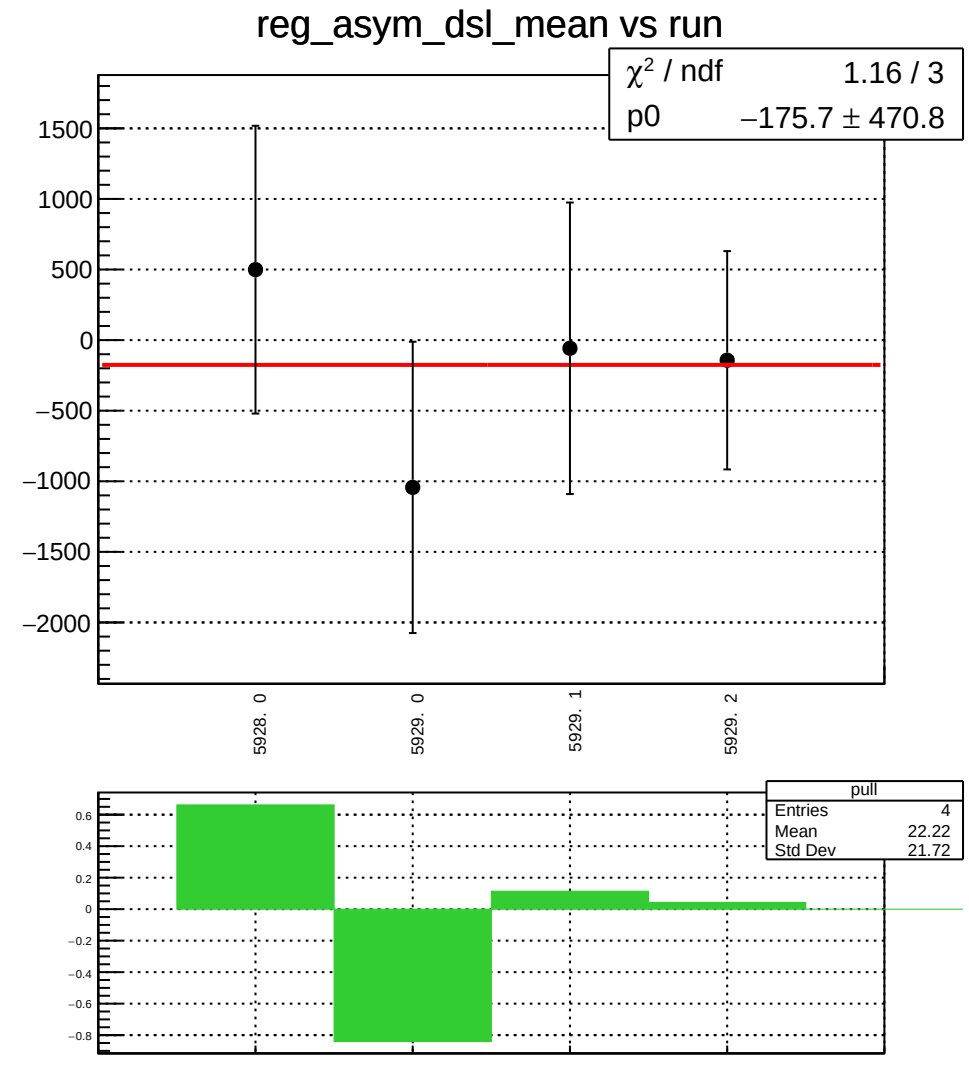

asym_usr_correction_rms vs run
χ² / ndf 164 / 3
p0 2340 ± 7.947
2500
2450
2400
2350
2300
2250
2200
5928. 0
5929. 0
5929. 1
5929. 2

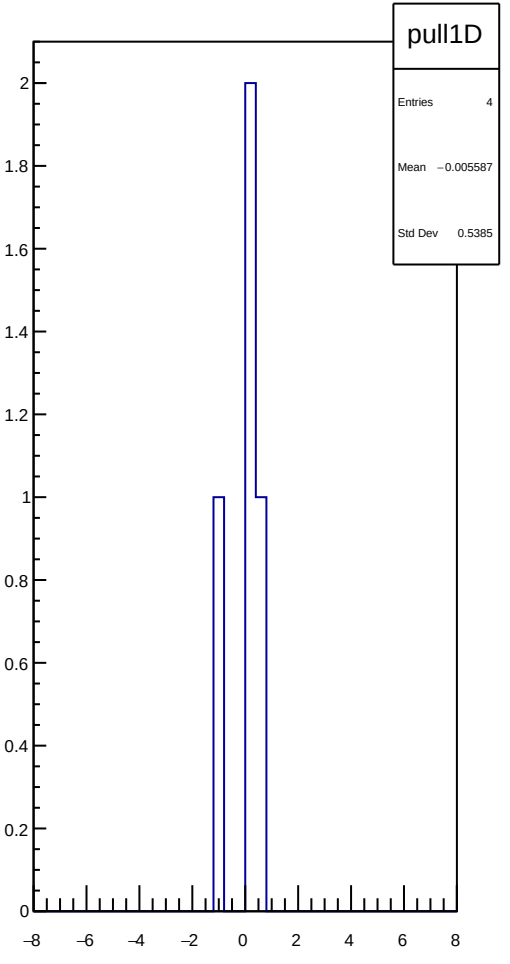

asym_usr_mean vs run
χ² / ndf 1.172 / 3
p0 −1.101e+04 ± 1.264e+04
40000
20000
0
−20000
−40000
−60000
5928. 0
5929. 0
5929. 1
5929. 2

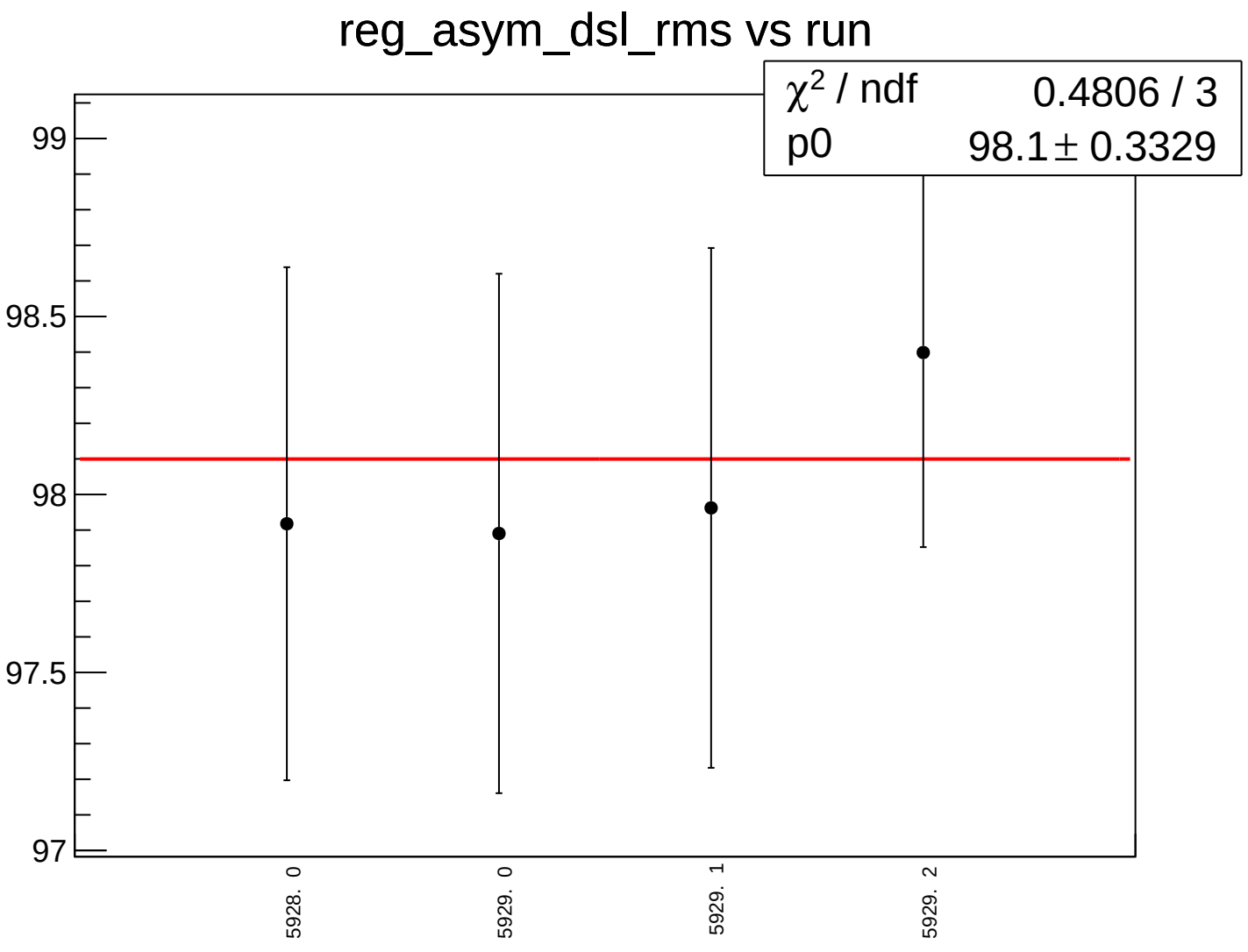

pull
Entries 4
Mean −9.556
Std Dev 11.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

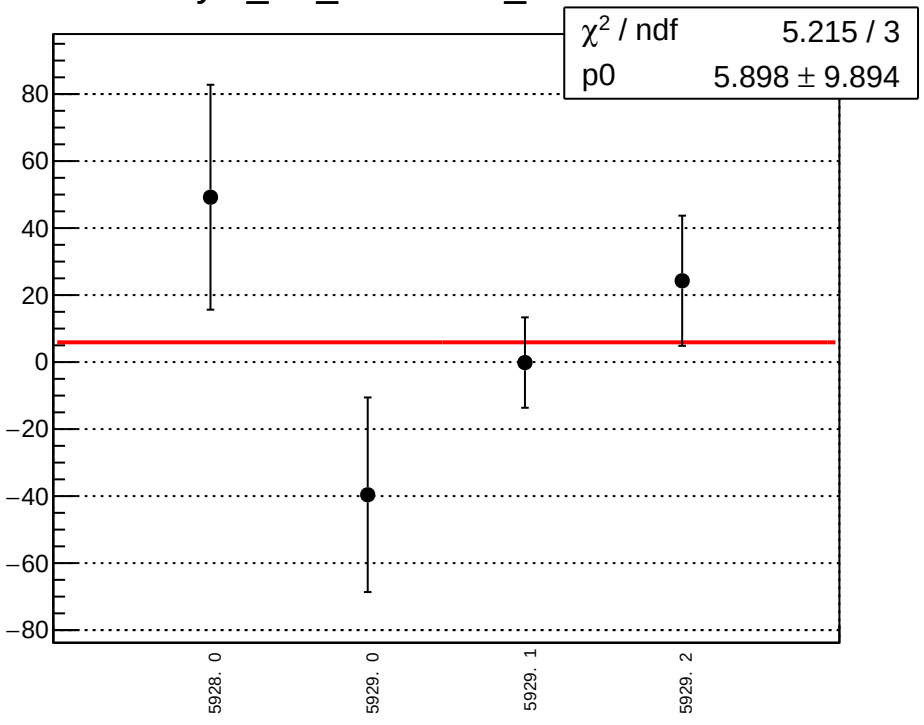

pull1D
Entries 4
Mean 0.02756
Std Dev 0.5405
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

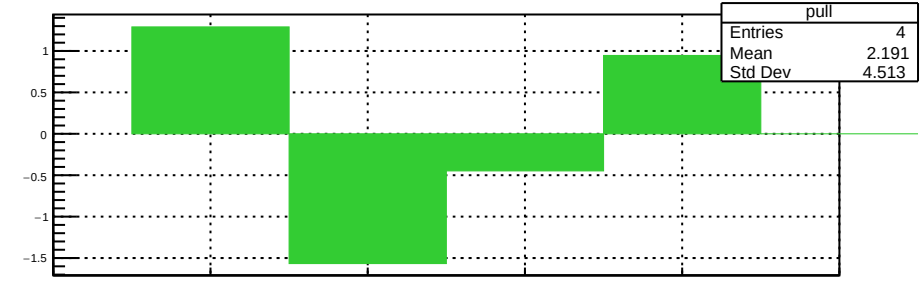

asym_usr_rms vs run
χ² / ndf 98.99 / 3
p0 2632 ± 8.936
2800
2750
2700
2650
2600
2550
2500
5928. 0
5929. 0
5929. 1
5929. 2

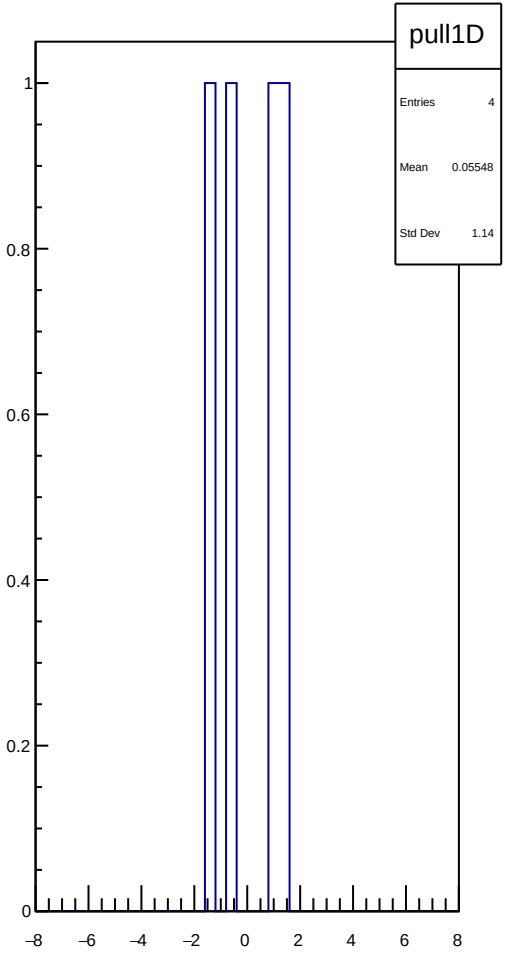

reg_asym_dsl_mean vs run
χ² / ndf 1.16 / 3
p0 −175.7 ± 470.8
1500
1000
500
0
−500
−1000
−1500
−2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 22.22
Std Dev 21.72
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

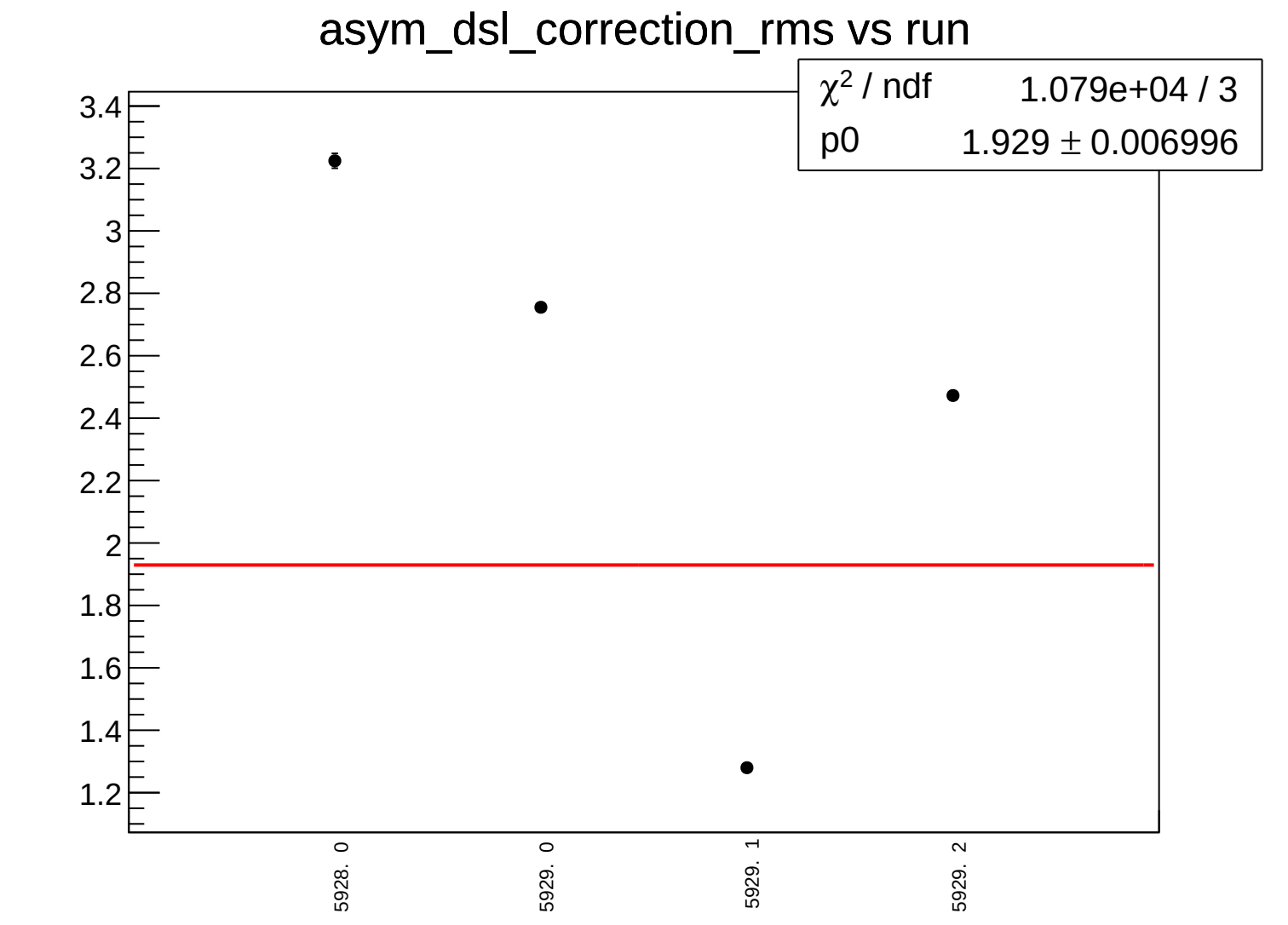

pull1D
Entries 4
Mean −0.005587
Std Dev 0.5385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

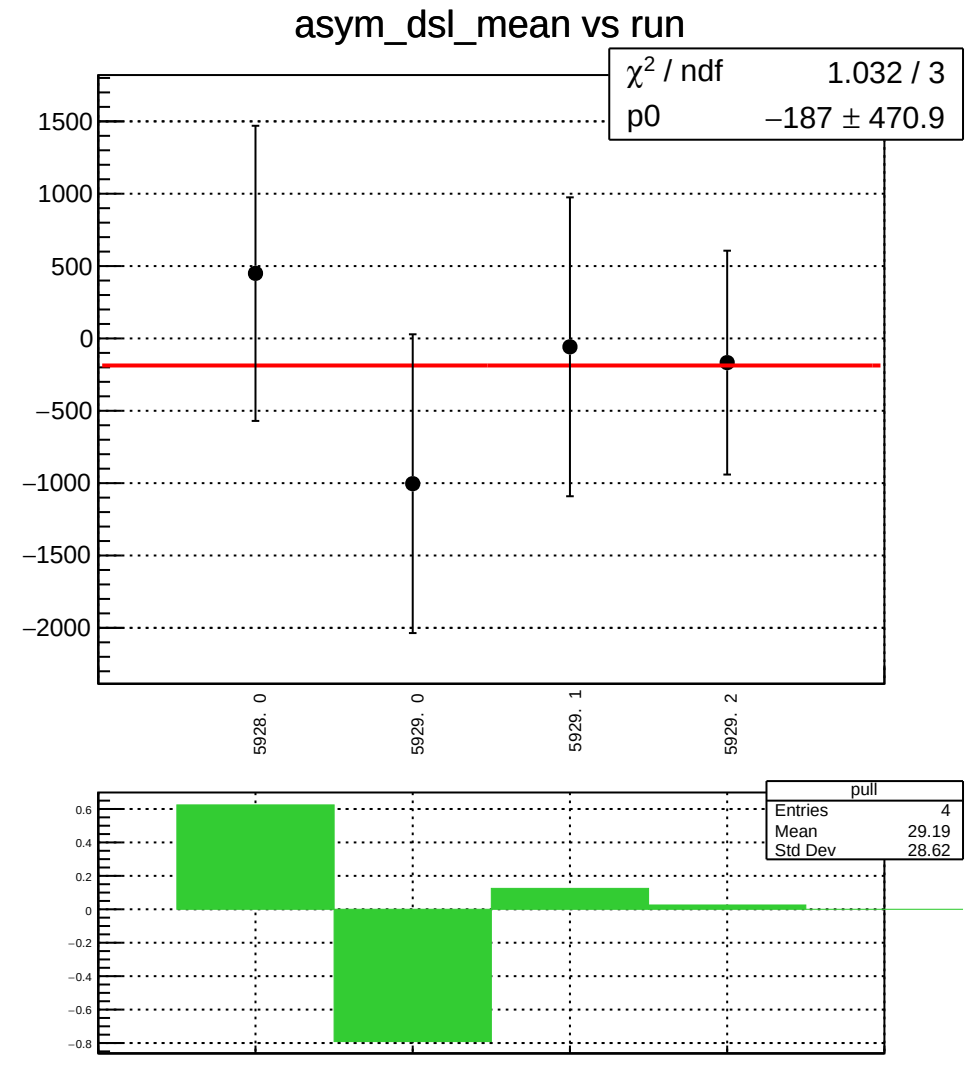

reg_asym_dsl_rms vs run
χ² / ndf 0.4806 / 3
p0 98.1 ± 0.3329
99
98.5
98
97.5
97
5928. 0
5929. 0
5929. 1
5929. 2

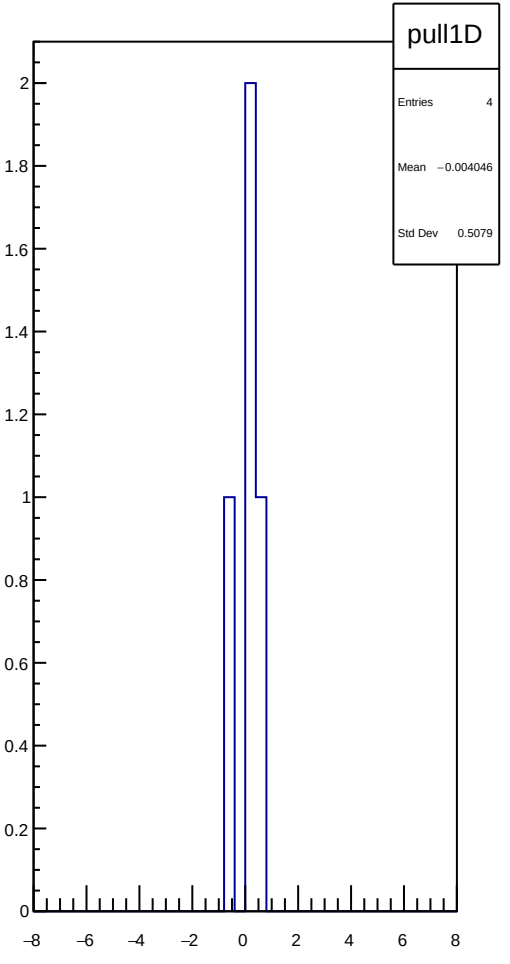

asym_dsl_correction_mean vs run
χ² / ndf 5.215 / 3
p0 5.898 ± 9.894
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2

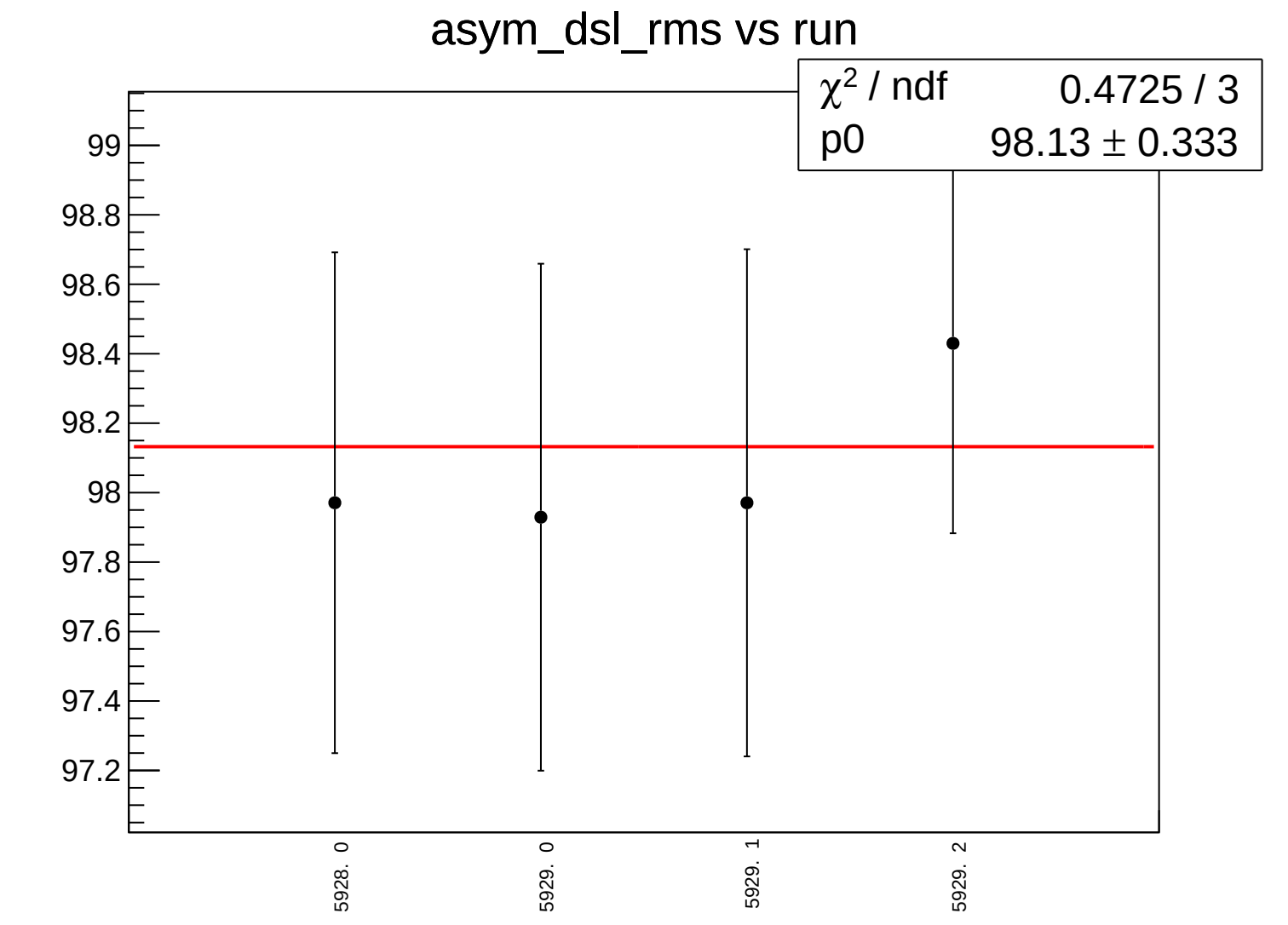

pull
Entries 4
Mean 2.191
Std Dev 4.513
1
0.5
0
−0.5
−1
−1.5

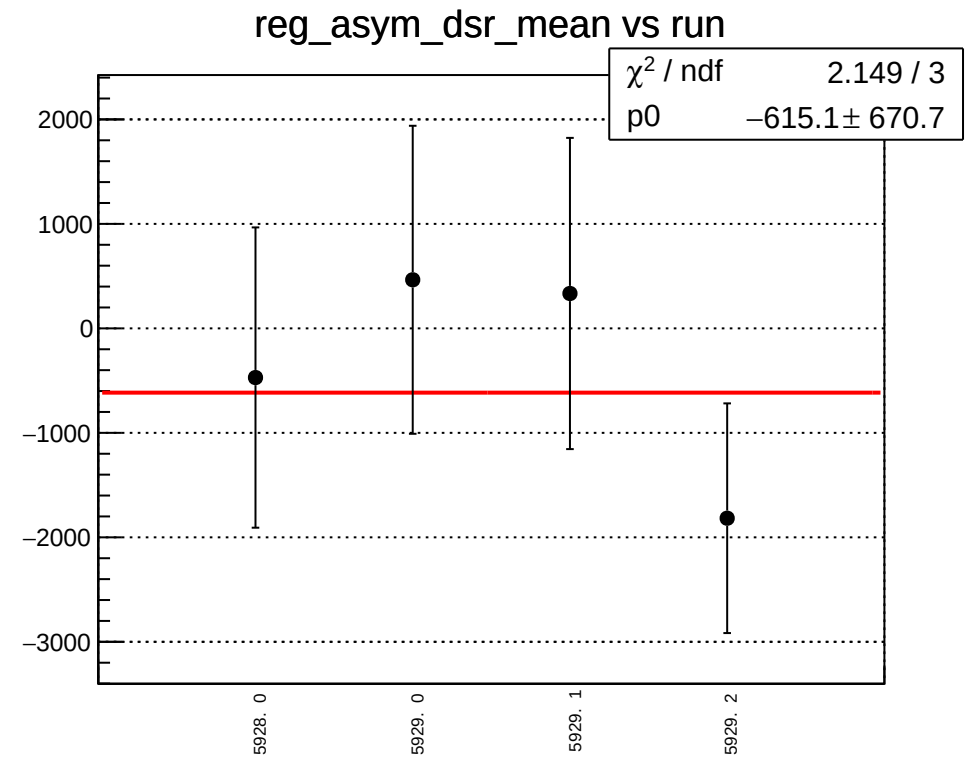

pull1D
Entries 4
Mean 0.05548
Std Dev 1.14
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

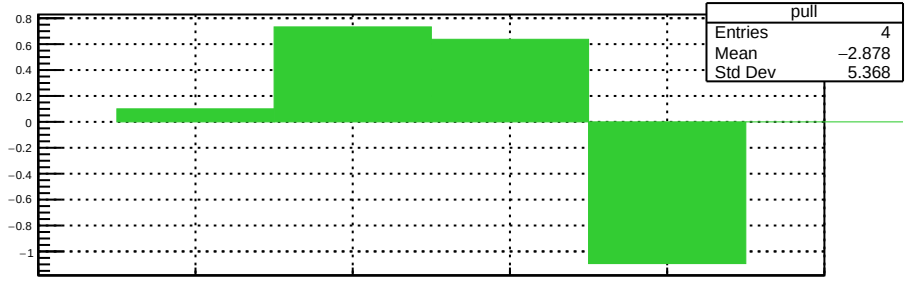

asym_dsl_correction_rms vs run
χ² / ndf 1.079e+04 / 3
p0 1.929 ± 0.006996
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
5928. 0
5929. 0
5929. 1
5929. 2

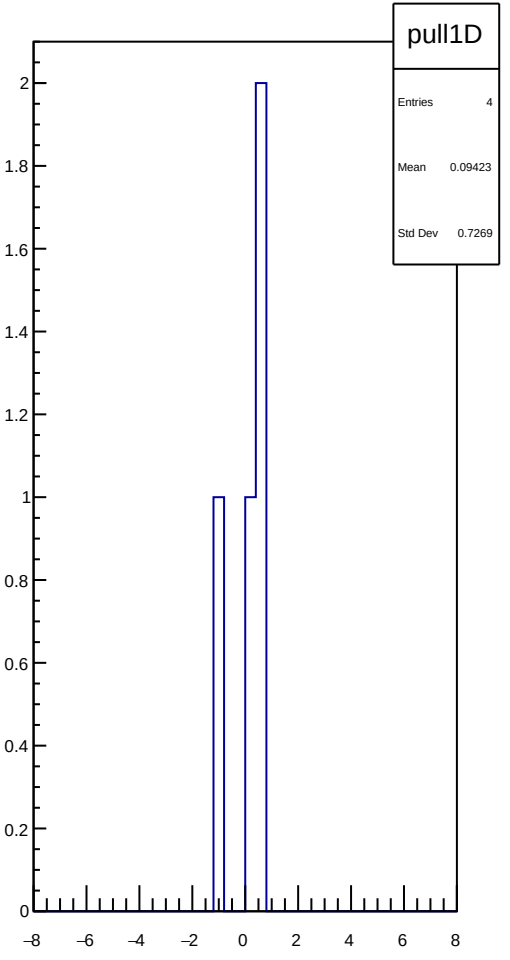

asym_dsl_mean vs run
χ² / ndf 1.032 / 3
p0 −187 ± 470.9
1500
1000
500
0
−500
−1000
−1500
−2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 29.19
Std Dev 28.62
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

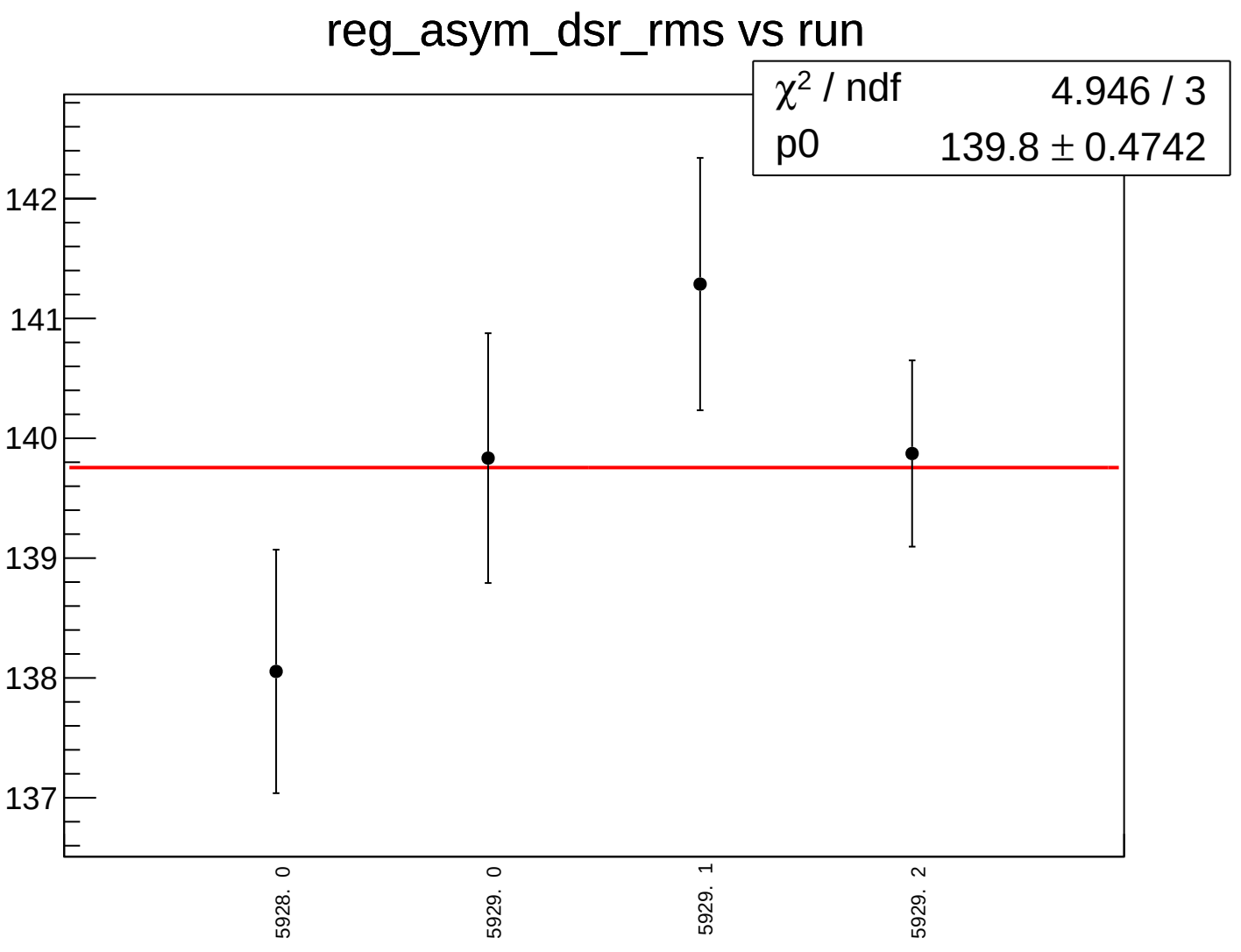

pull1D
Entries 4
Mean −0.004046
Std Dev 0.5079
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

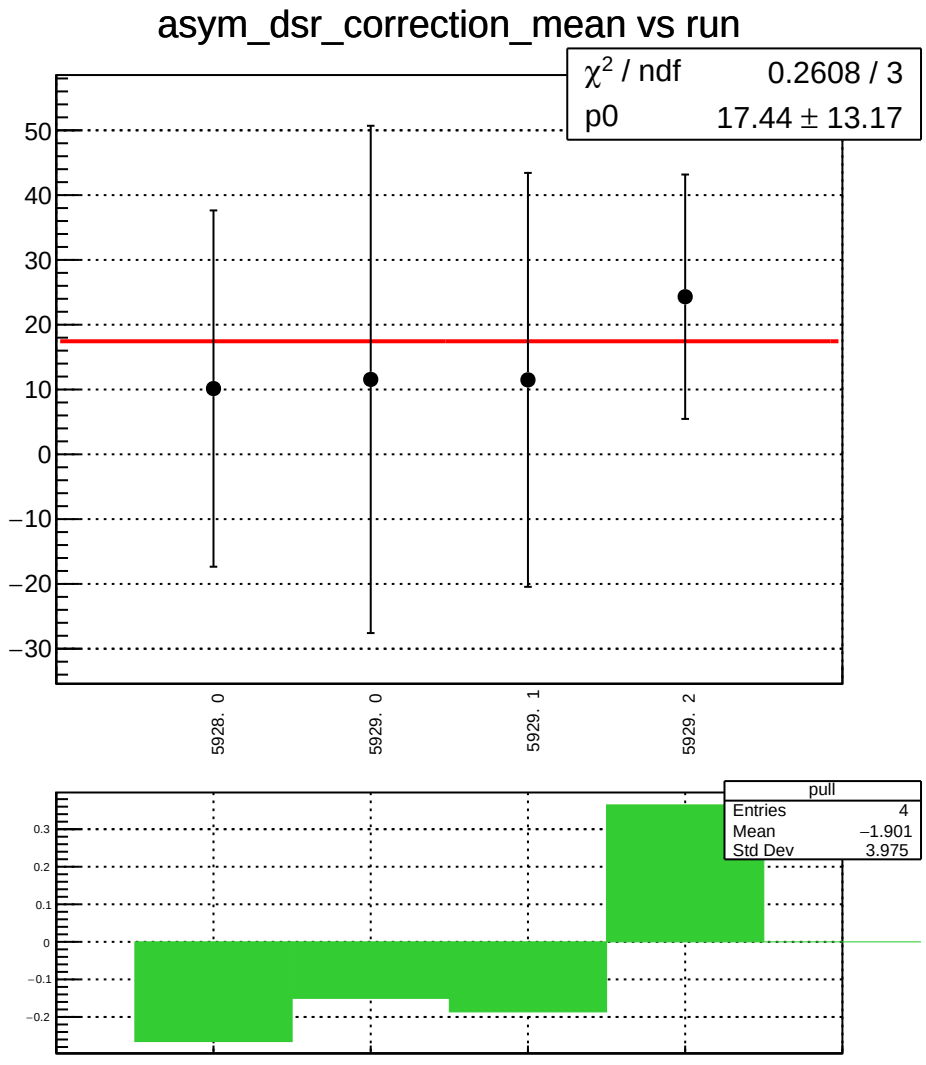

asym_dsl_rms vs run
χ² / ndf 0.4725 / 3
p0 98.13 ± 0.333
99
98.8
98.6
98.4
98.2
98
97.8
97.6
97.4
97.2
5928. 0
5929. 0
5929. 1
5929. 2

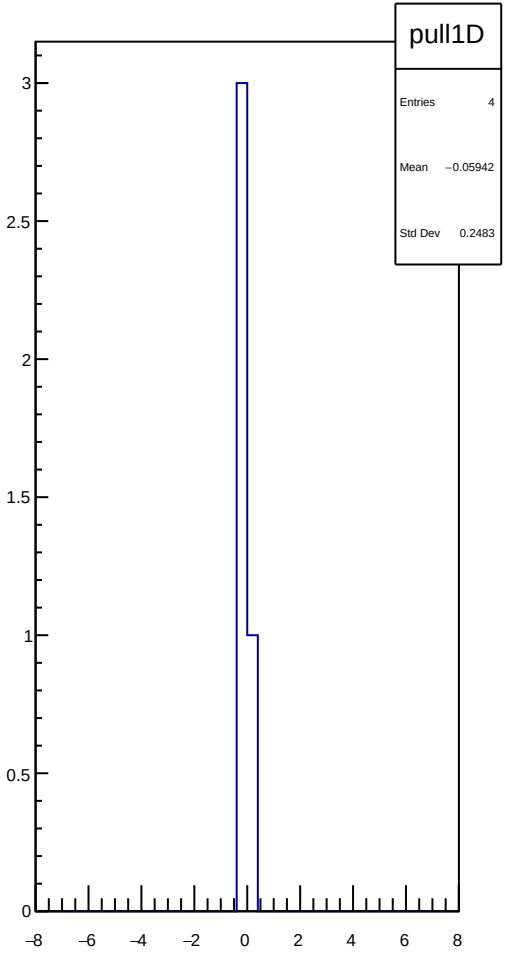

reg_asym_dsr_mean vs run
χ² / ndf 2.149 / 3
p0 −615.1 ± 670.7
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2

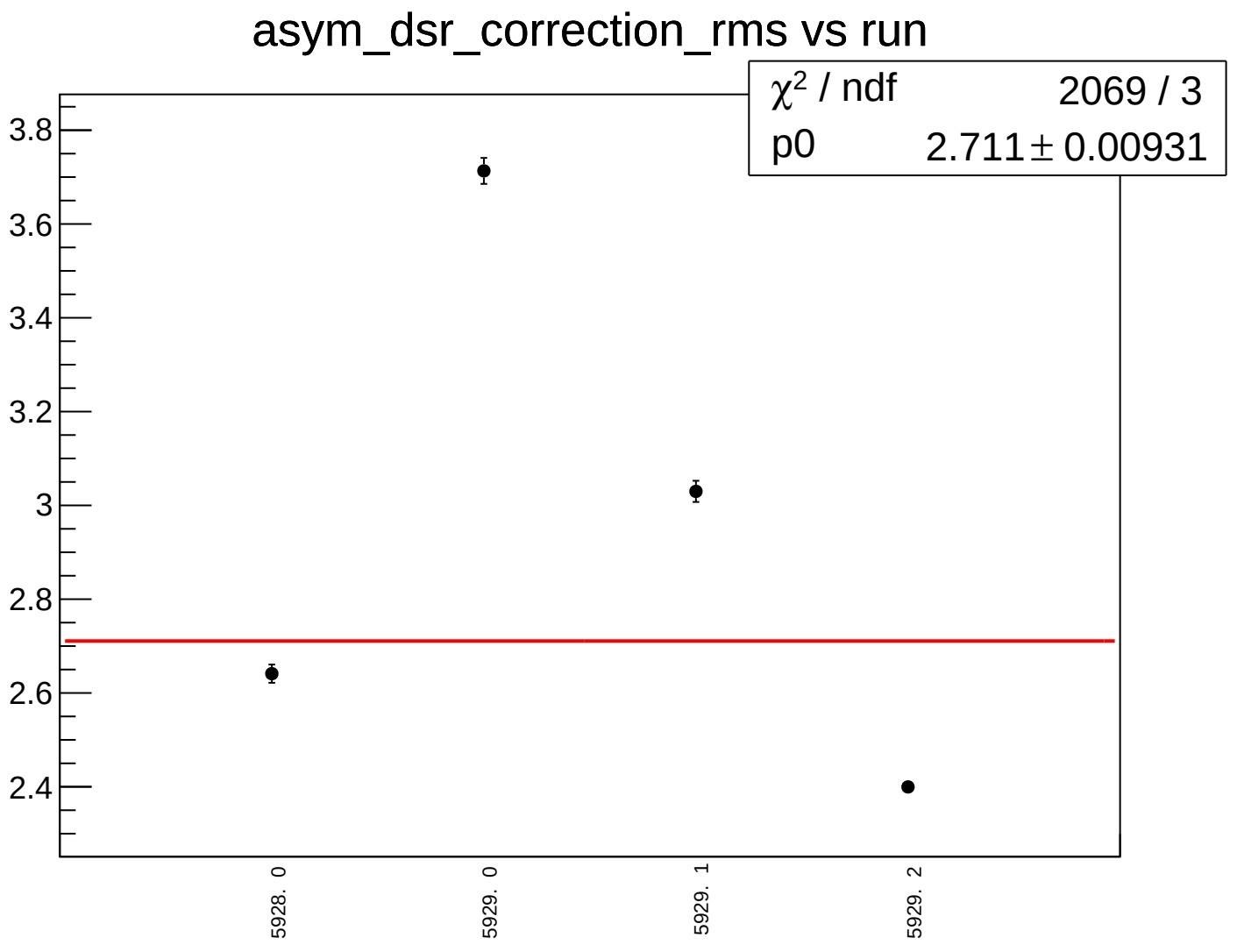

pull
Entries 4
Mean −2.878
Std Dev 5.368
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

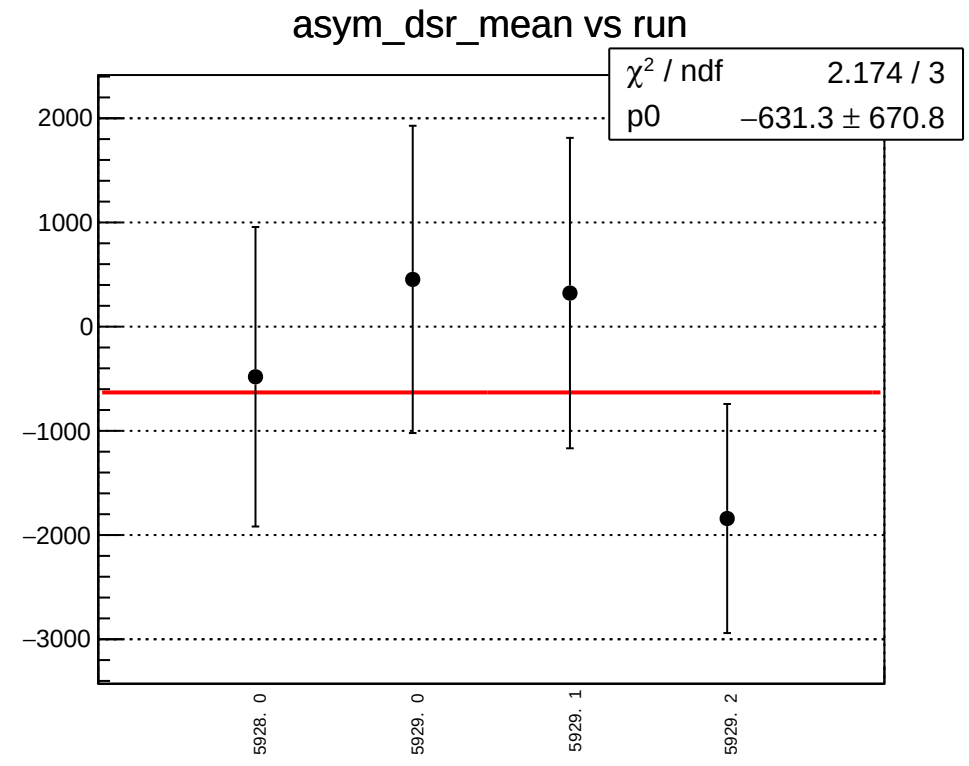

pull1D
Entries 4
Mean 0.09423
Std Dev 0.7269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

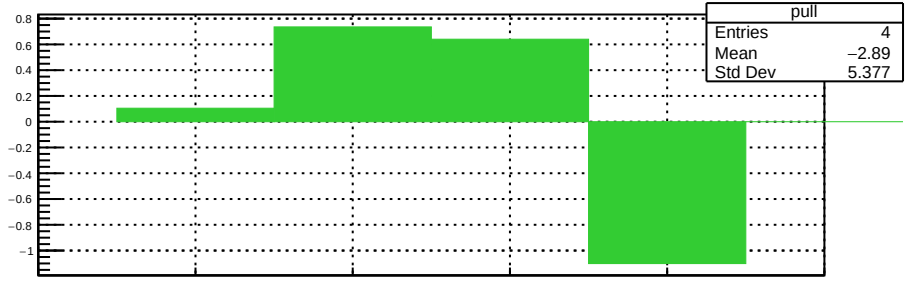

reg_asym_dsr_rms vs run
χ² / ndf 4.946 / 3
p0 139.8 ± 0.4742
142
141
140
139
138
137
5928. 0
5929. 0
5929. 1
5929. 2

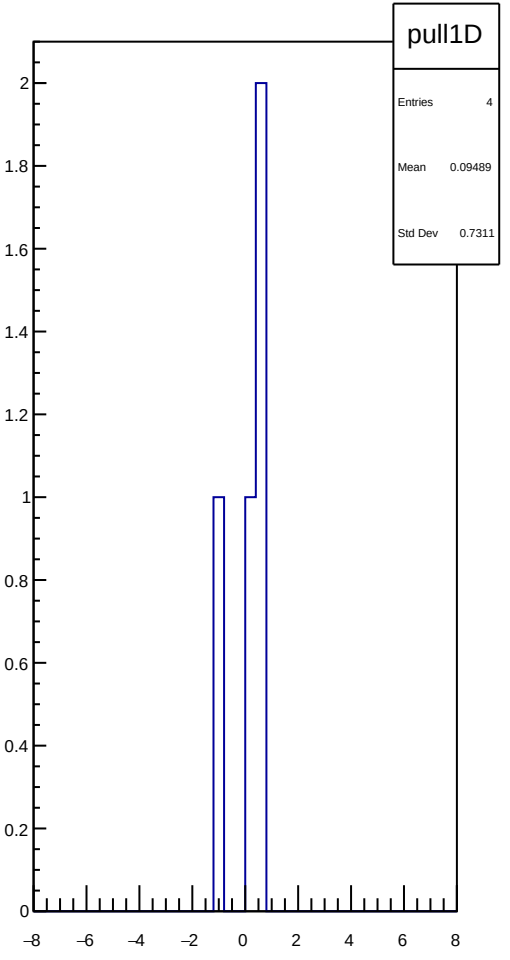

asym_dsr_correction_mean vs run
χ² / ndf 0.2608 / 3
p0 17.44 ± 13.17
50
40
30
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.901
Std Dev 3.975
0.3
0.2
0.1
0
−0.1
−0.2

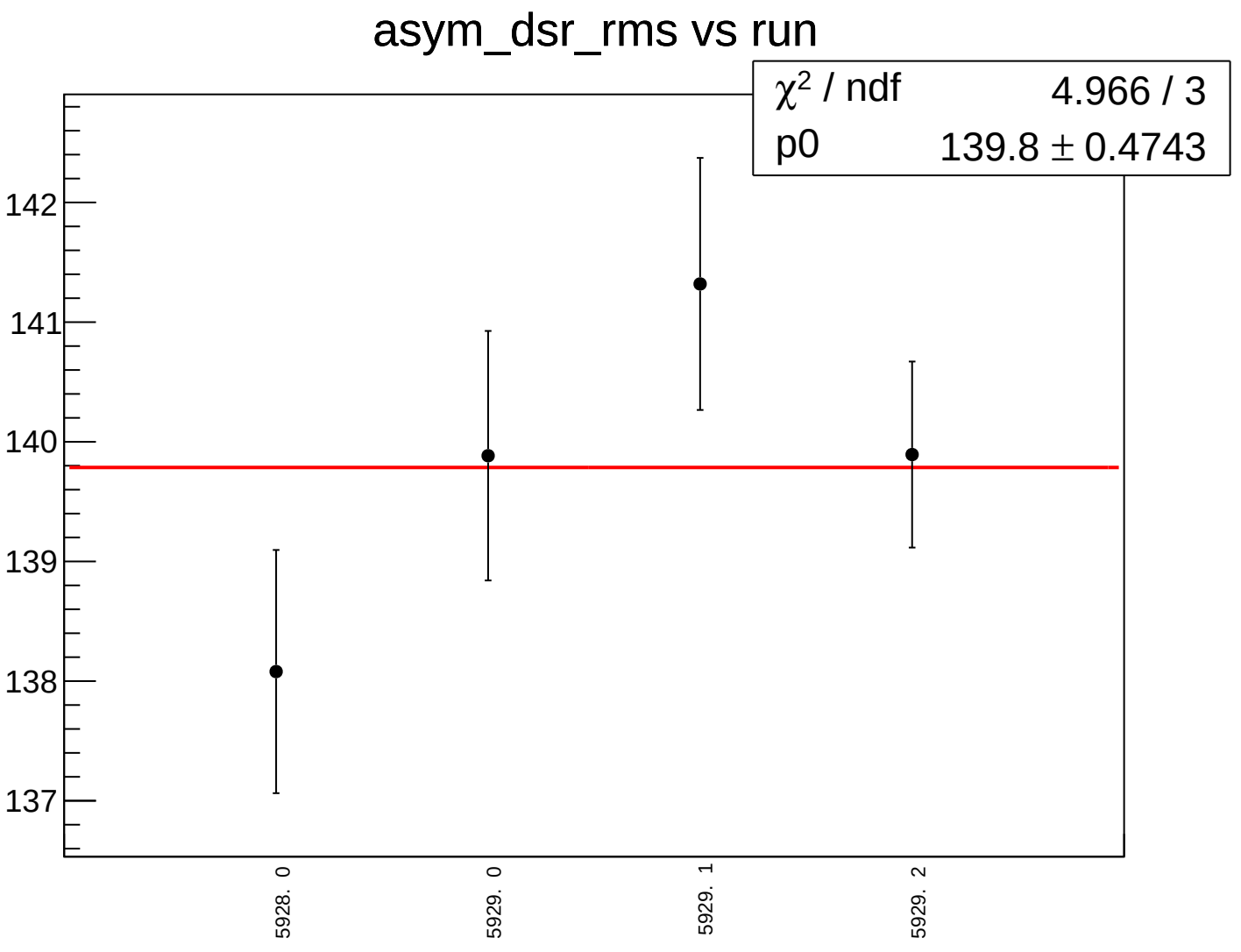

pull1D
Entries 4
Mean −0.05942
Std Dev 0.2483
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

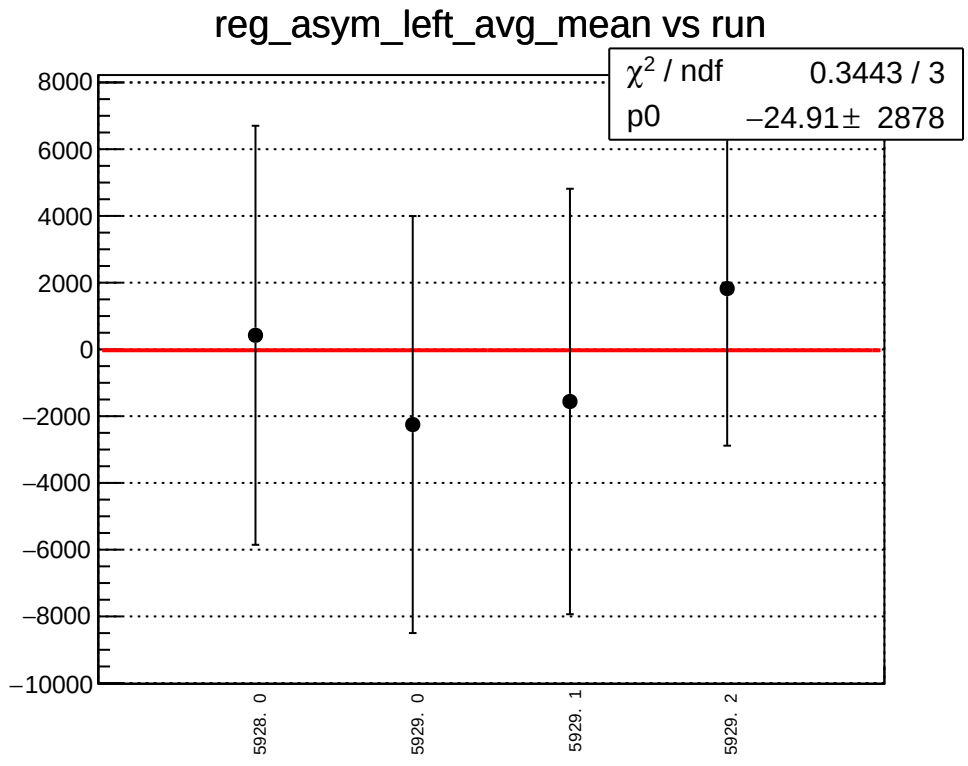

asym_dsr_correction_rms vs run
χ² / ndf 2069 / 3
p0 2.711 ± 0.00931
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
5928. 0
5929. 0
5929. 1
5929. 2

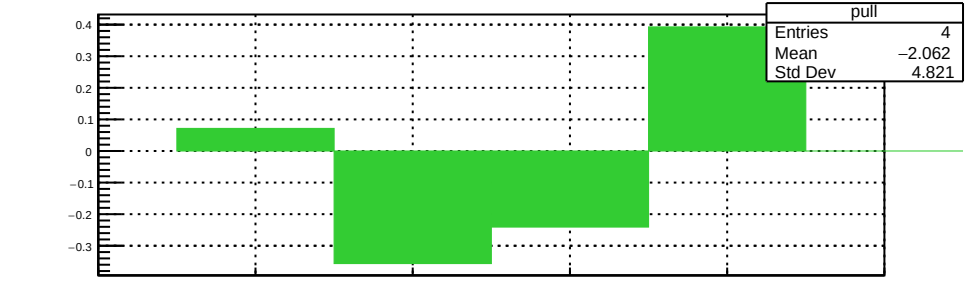

asym_dsr_mean vs run
χ² / ndf 2.174 / 3
p0 −631.3 ± 670.8
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2

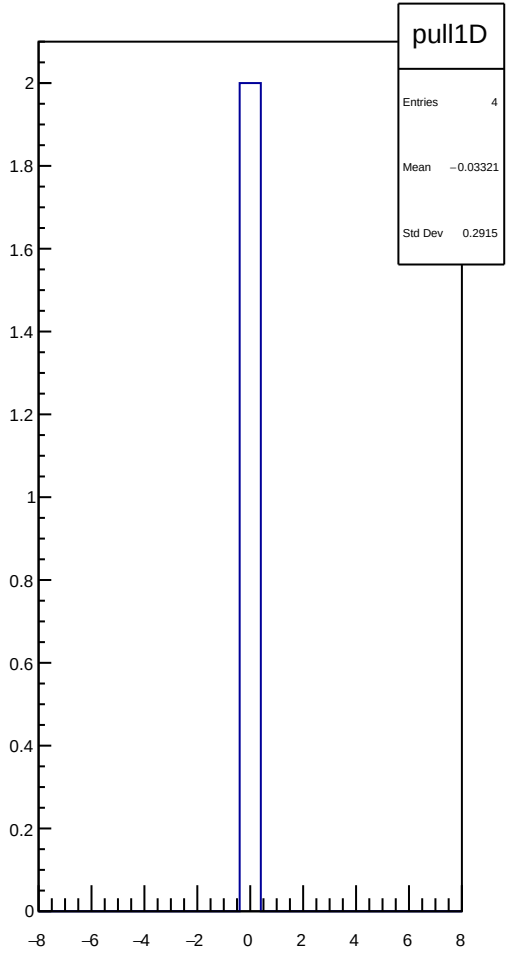

pull
Entries 4
Mean −2.89
Std Dev 5.377
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

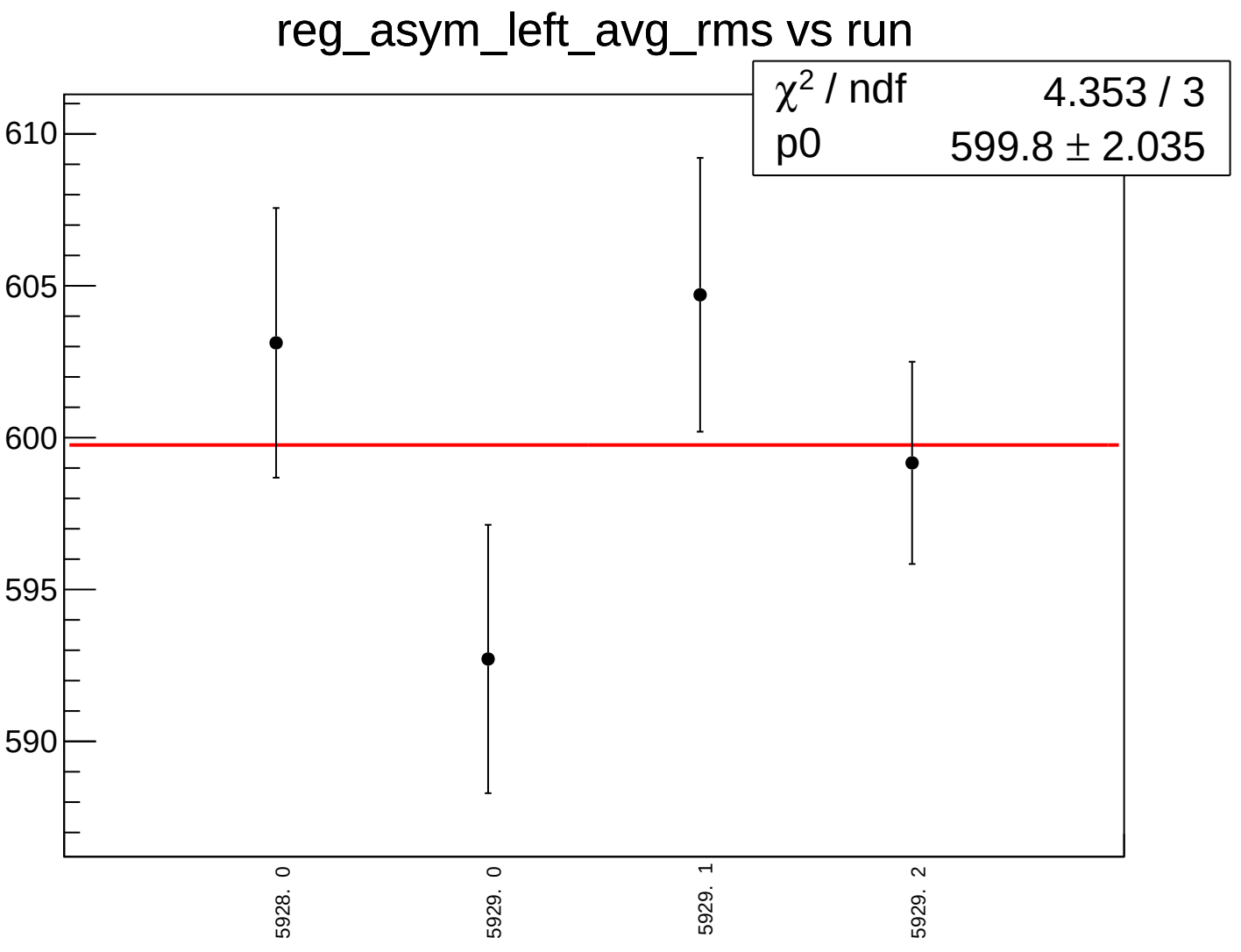

pull1D
Entries 4
Mean 0.09489
Std Dev 0.7311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

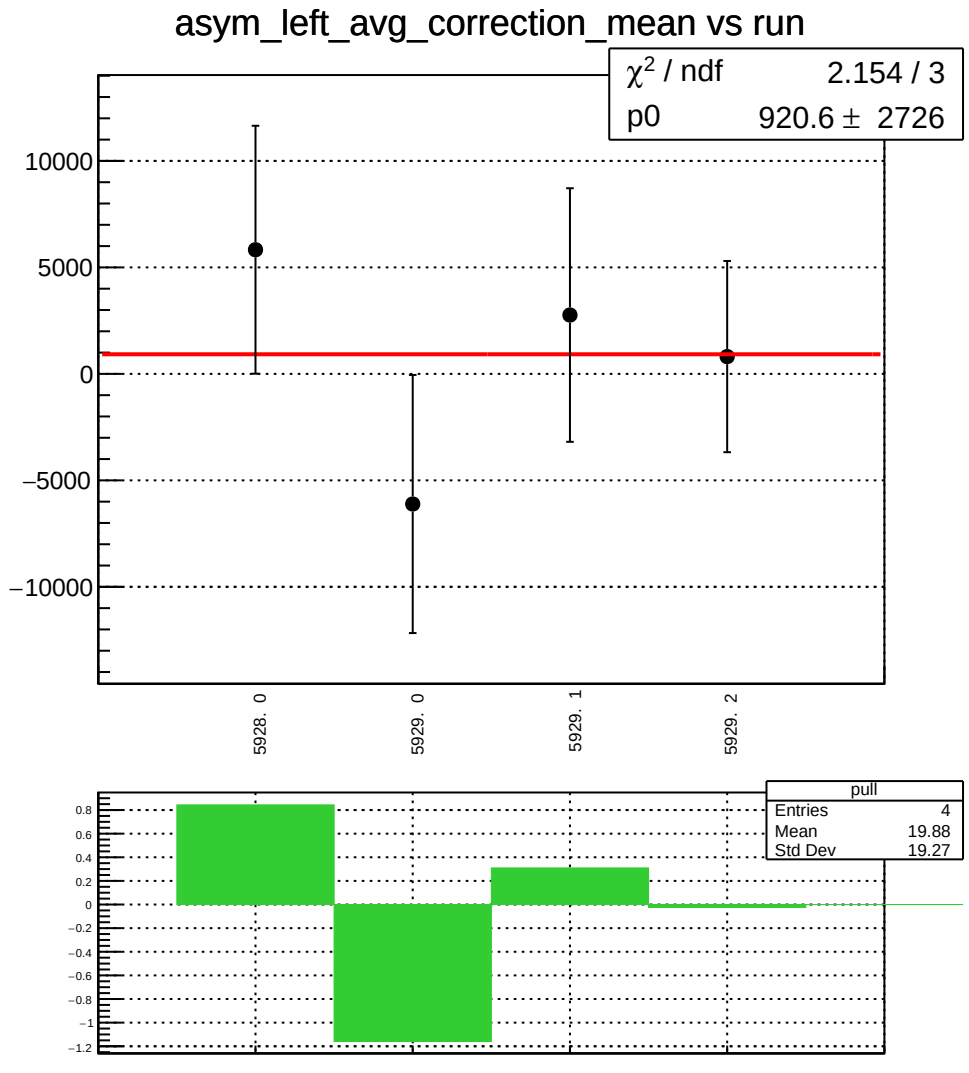

asym_dsr_rms vs run
χ² / ndf 4.966 / 3
p0 139.8 ± 0.4743
142
141
140
139
138
137
5928. 0
5929. 0
5929. 1
5929. 2

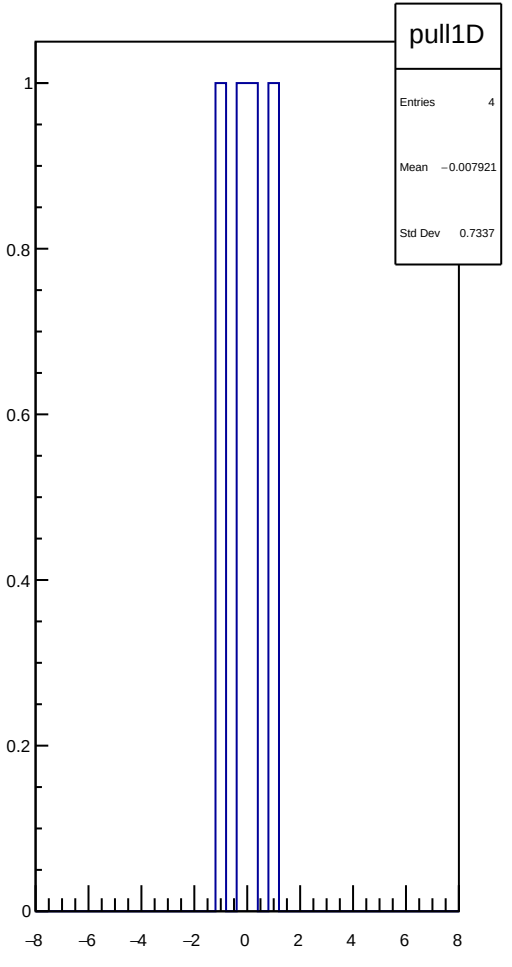

reg_asym_left_avg_mean vs run
χ² / ndf 0.3443 / 3
p0 −24.91± 2878
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

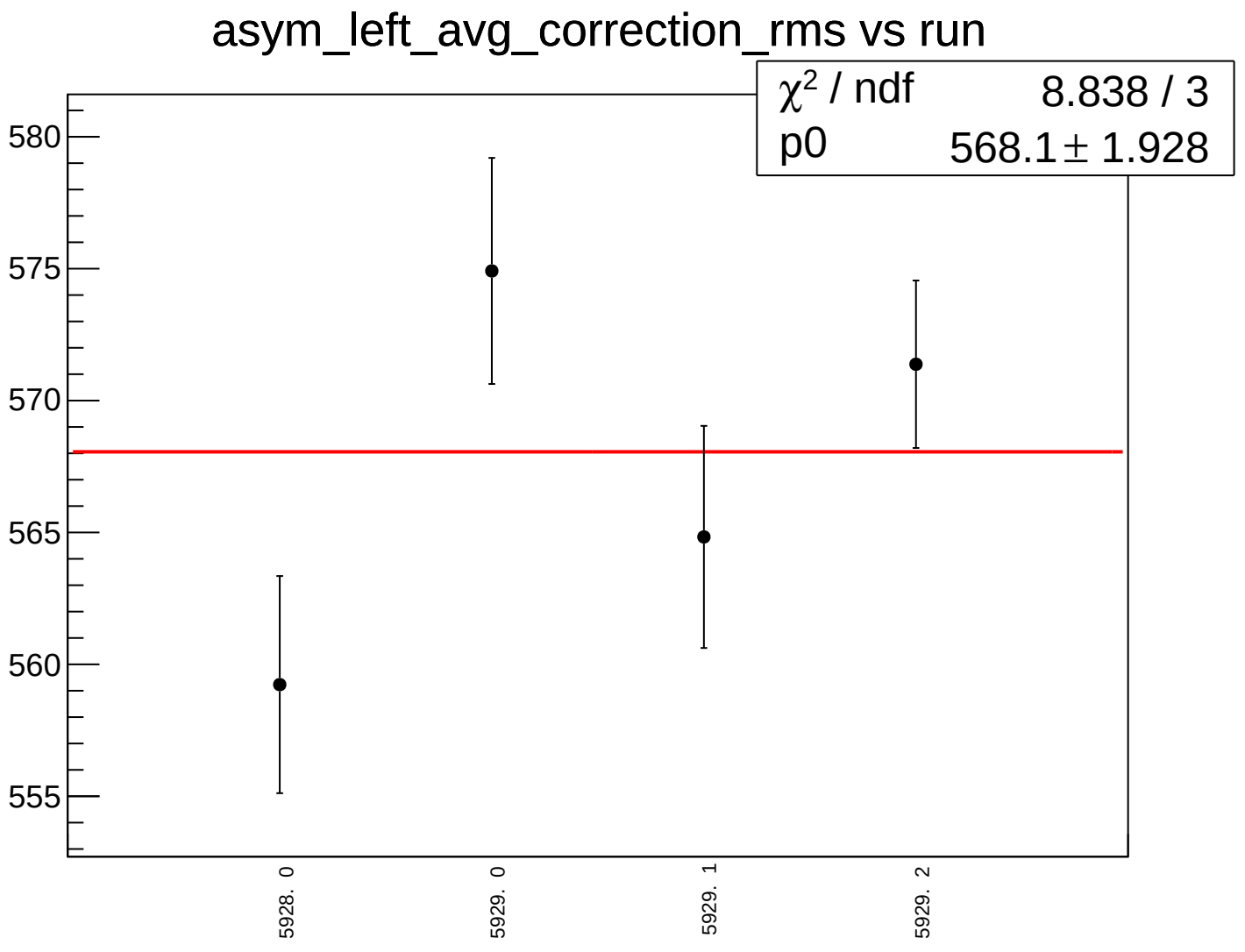

pull
Entries 4
Mean −2.062
Std Dev 4.821
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

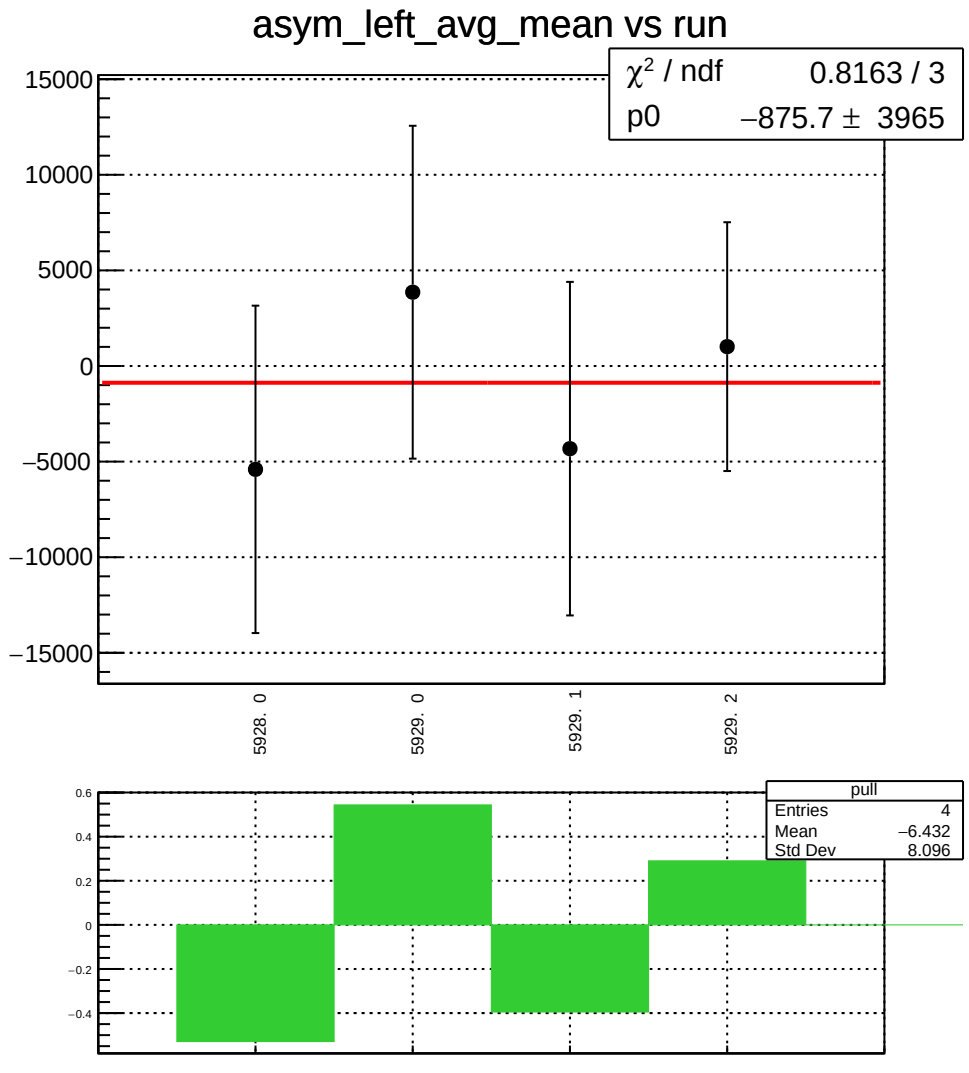

pull1D
Entries 4
Mean −0.03321
Std Dev 0.2915
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

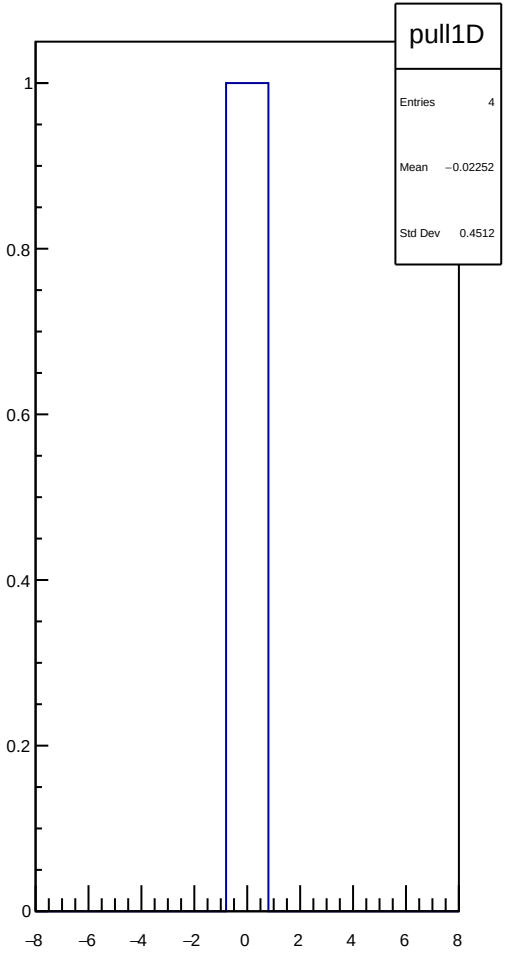

reg_asym_left_avg_rms vs run
χ² / ndf 4.353 / 3
p0 599.8 ± 2.035
610
605
600
595
590
5928. 0
5929. 0
5929. 1
5929. 2

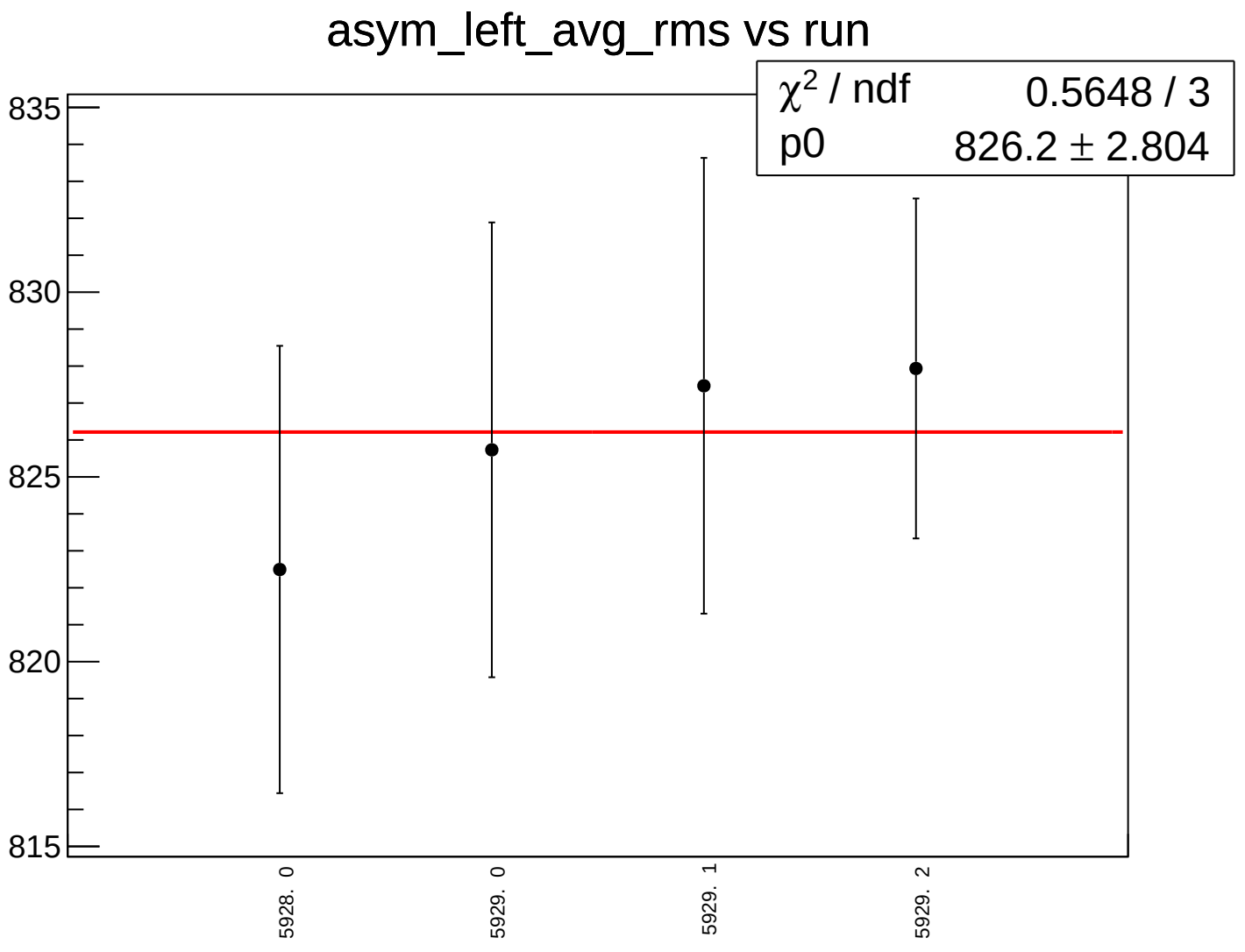

asym_left_avg_correction_mean vs run
χ² / ndf 2.154 / 3
p0 920.6 ± 2726
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 19.88
Std Dev 19.27
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

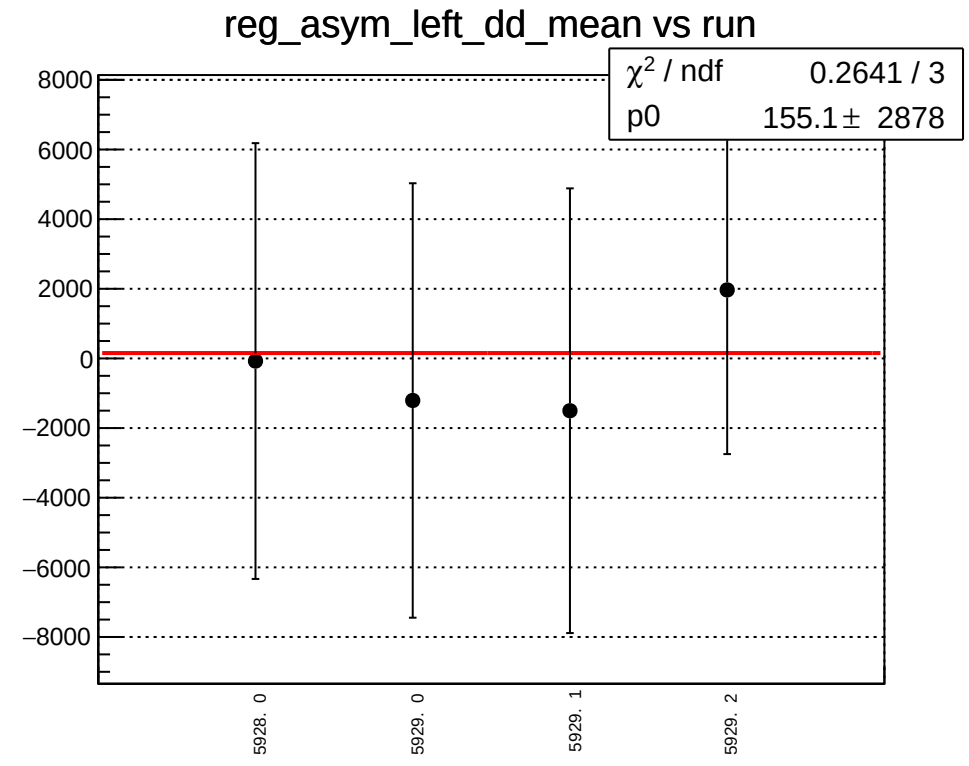

pull1D
Entries 4
Mean −0.007921
Std Dev 0.7337
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

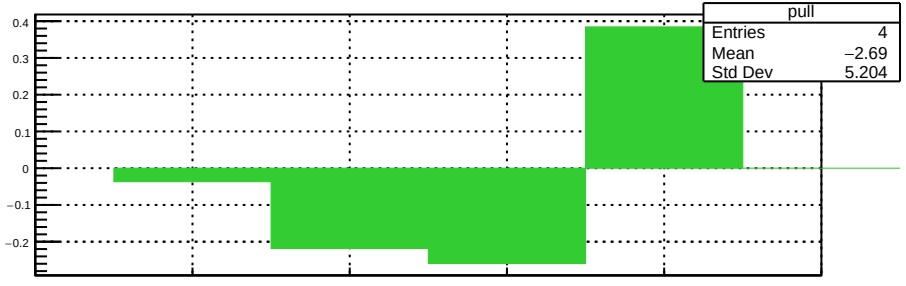

asym_left_avg_correction_rms vs run
χ² / ndf 8.838 / 3
p0 568.1 ± 1.928
580
575
570
565
560
555
5928. 0
5929. 0
5929. 1
5929. 2

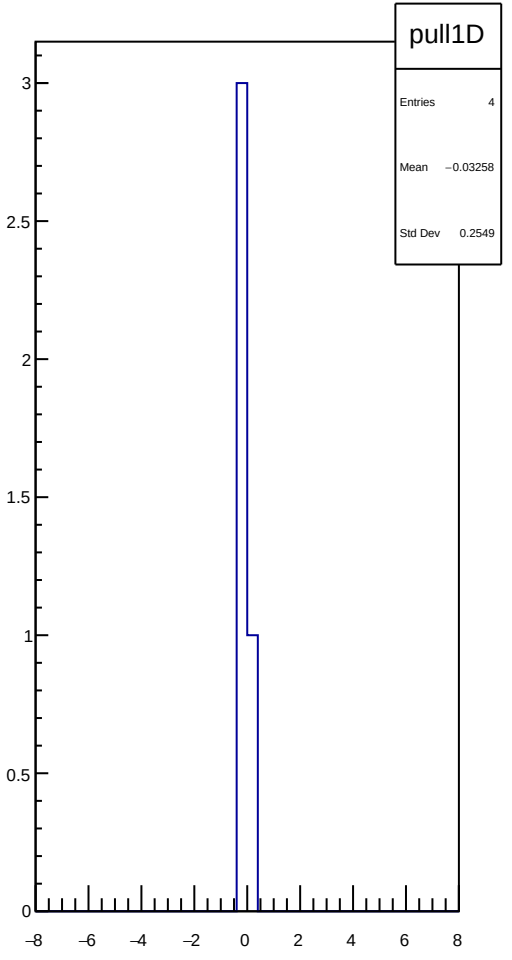

asym_left_avg_mean vs run
χ² / ndf 0.8163 / 3
p0 −875.7 ± 3965
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.432
Std Dev 8.096
0.6
0.4
0.2
0
−0.2
−0.4

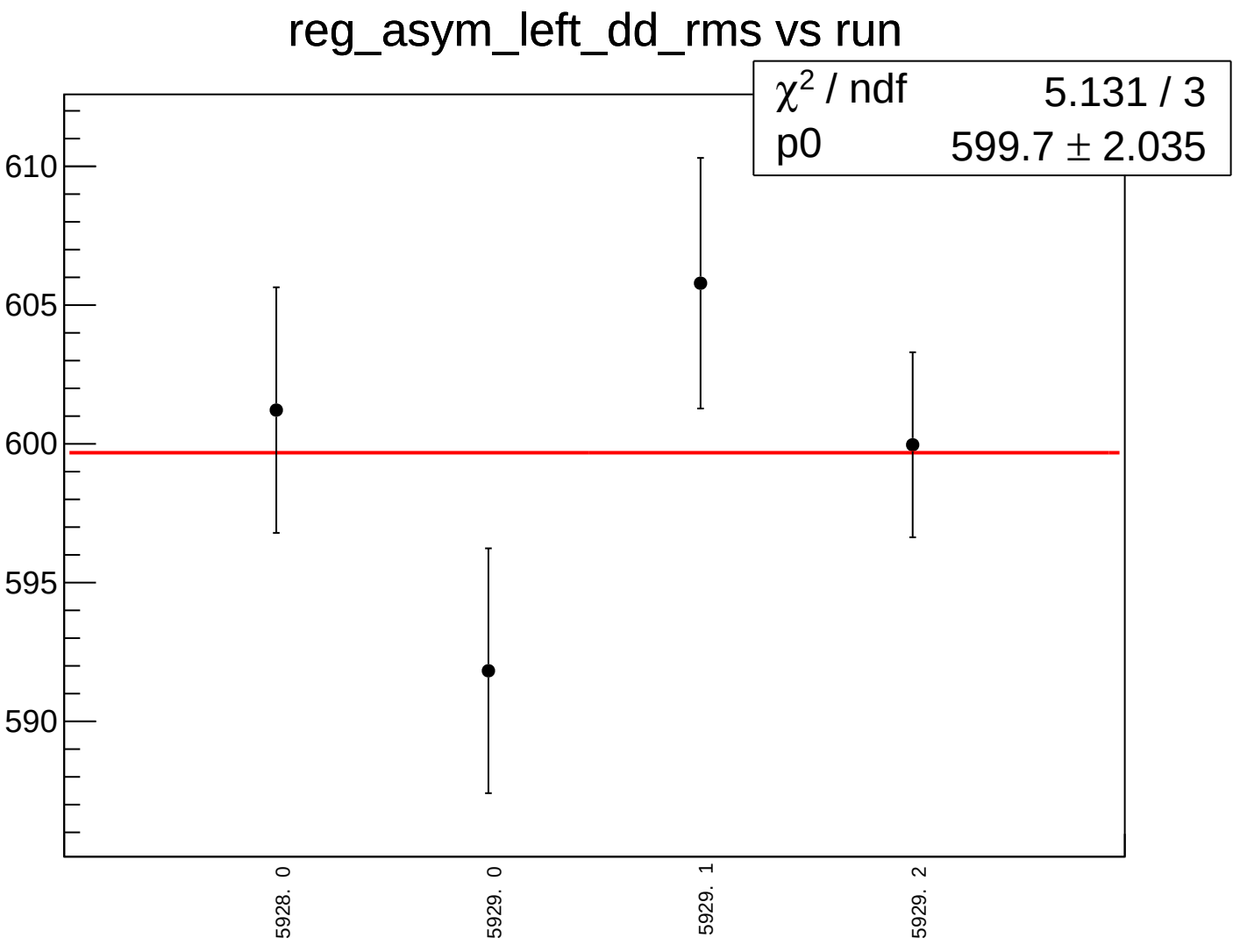

pull1D
Entries 4
Mean −0.02252
Std Dev 0.4512
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

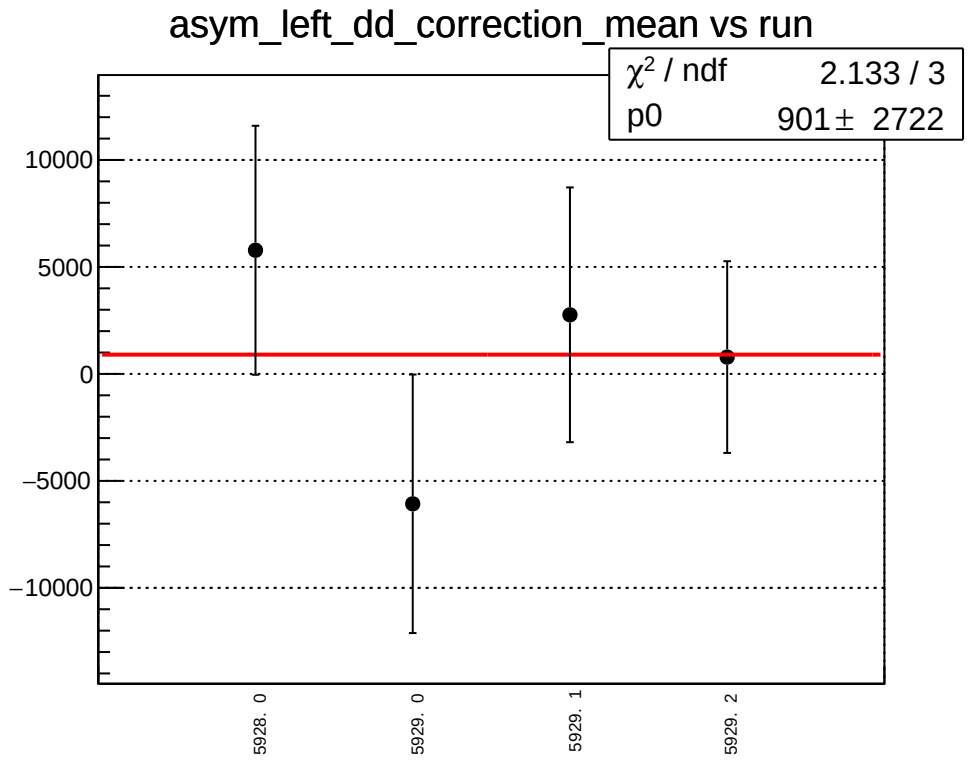

asym_left_avg_rms vs run
χ² / ndf 0.5648 / 3
p0 826.2 ± 2.804
835
830
825
820
815
5928. 0
5929. 0
5929. 1
5929. 2

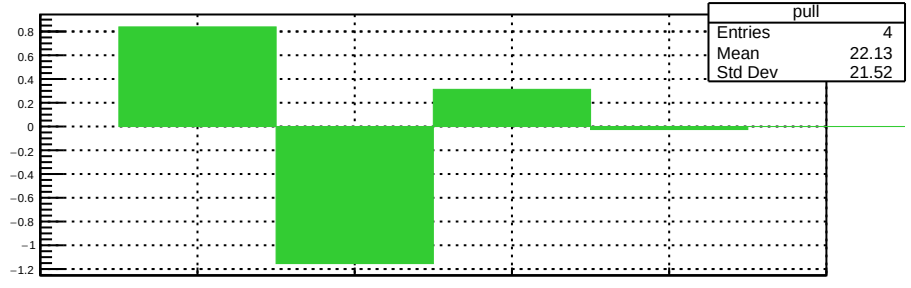

reg_asym_left_dd_mean vs run
χ² / ndf 0.2641 / 3
p0 155.1 ± 2878
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5928. 0
5929. 0
5929. 1
5929. 2

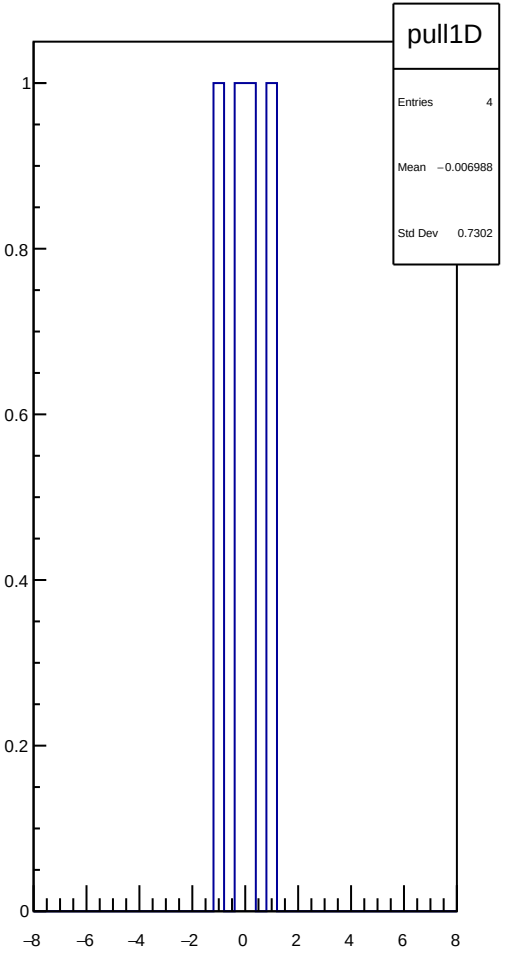

pull
Entries 4
Mean −2.69
Std Dev 5.204
0.4
0.3
0.2
0.1
0
−0.1
−0.2

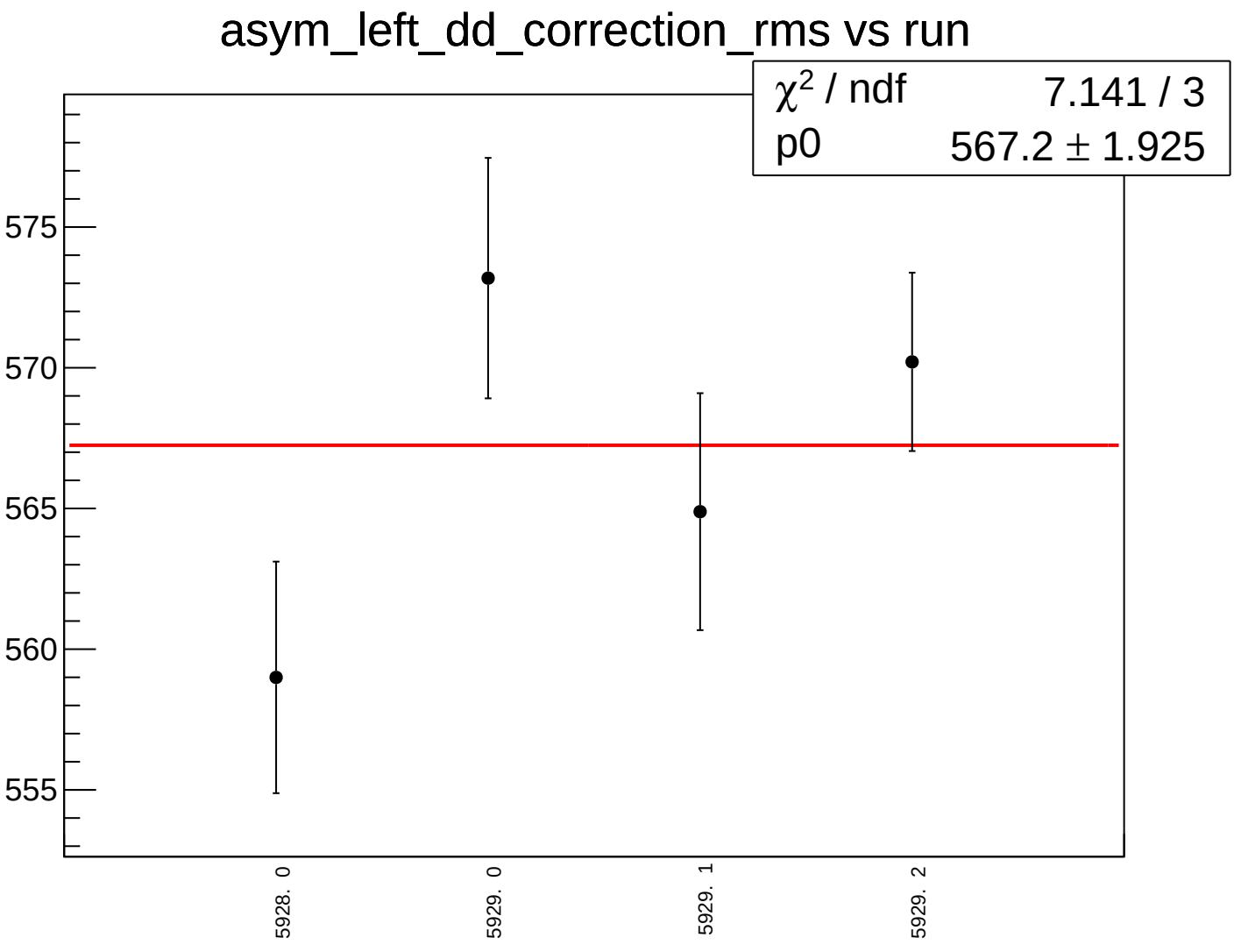

pull1D
Entries 4
Mean −0.03258
Std Dev 0.2549
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

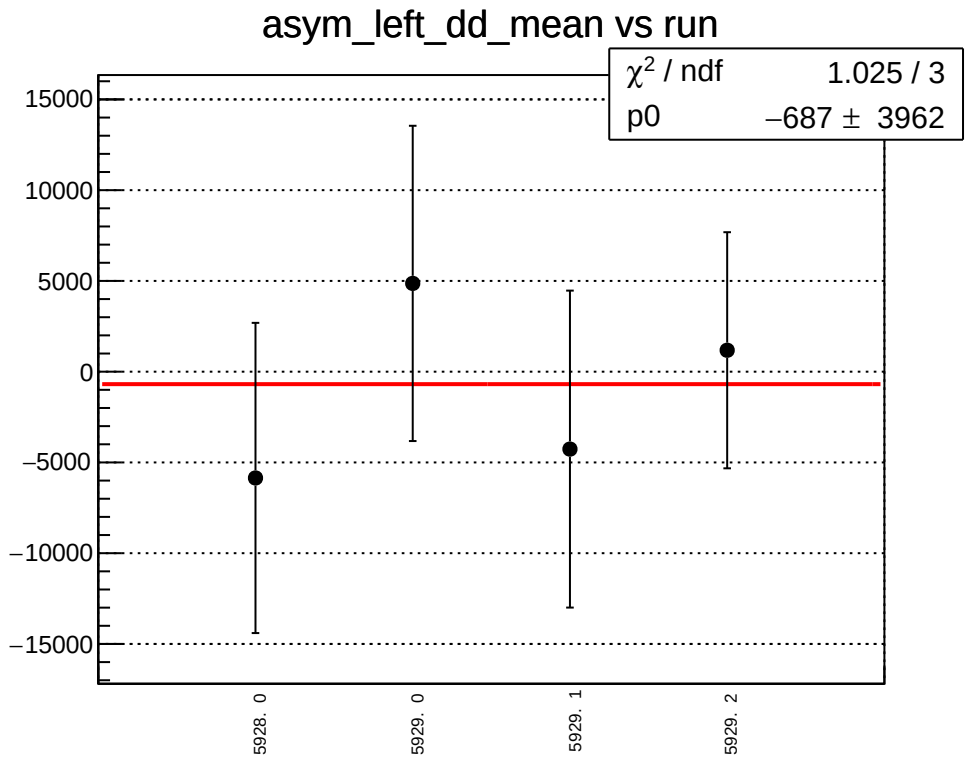

reg_asym_left_dd_rms vs run
χ² / ndf 5.131 / 3
p0 599.7 ± 2.035
610
605
600
595
590
5928. 0
5929. 0
5929. 1
5929. 2

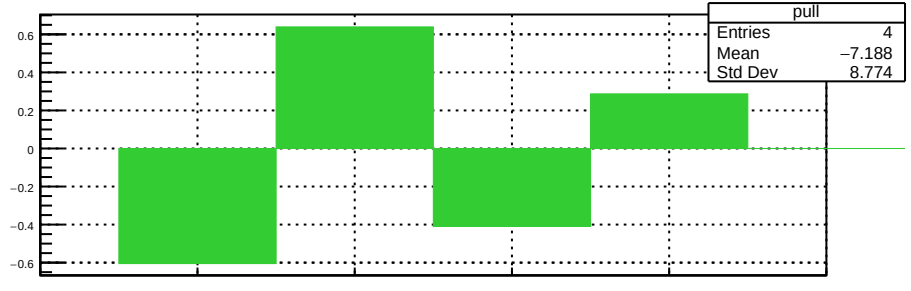

asym_left_dd_correction_mean vs run
χ² / ndf 2.133 / 3
p0 901 ± 2722
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

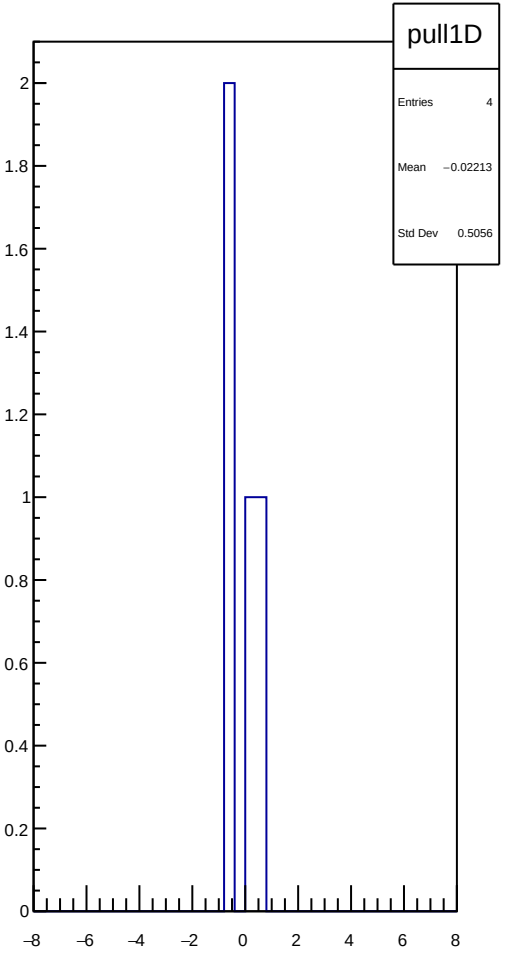

pull
Entries 4
Mean 22.13
Std Dev 21.52
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

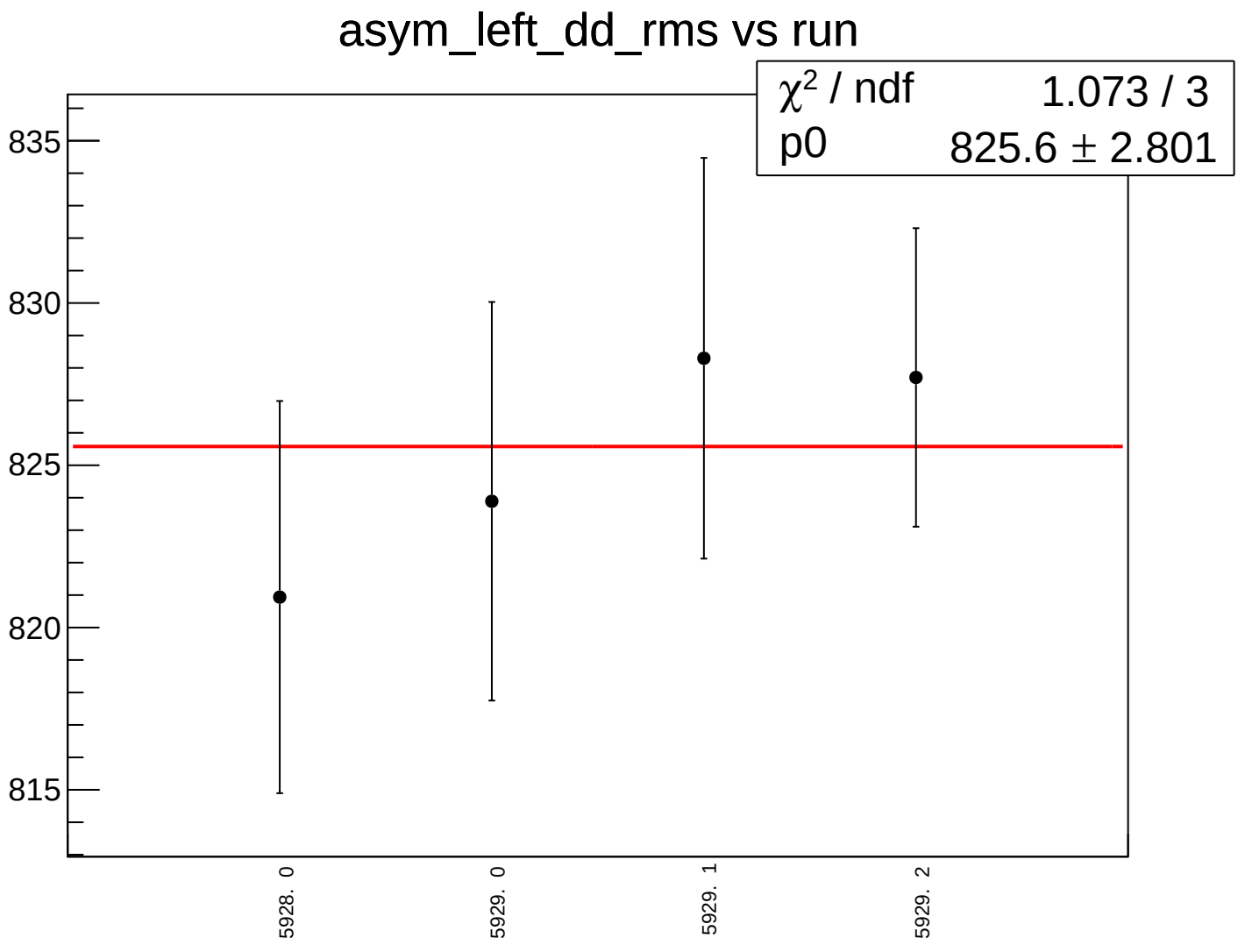

pull1D
Entries 4
Mean −0.006988
Std Dev 0.7302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

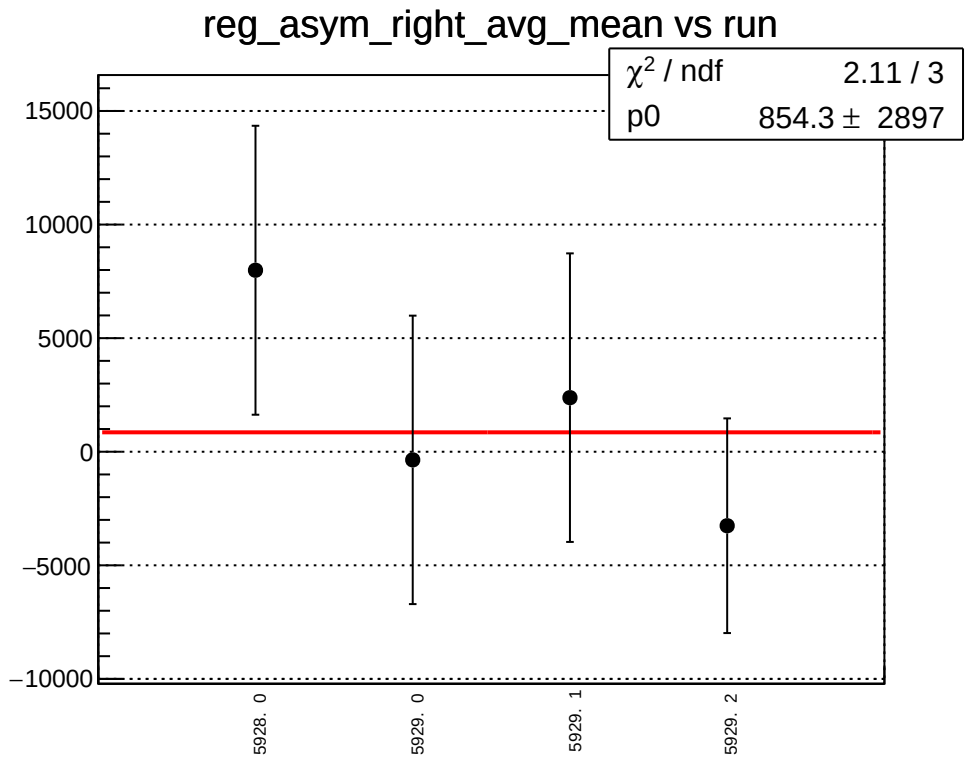

asym_left_dd_correction_rms vs run
χ² / ndf 7.141 / 3
p0 567.2 ± 1.925
575
570
565
560
555
5928. 0
5929. 0
5929. 1
5929. 2

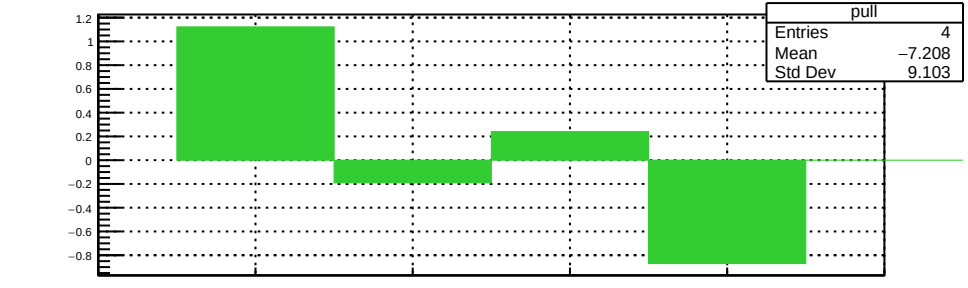

asym_left_dd_mean vs run
χ² / ndf 1.025 / 3
p0 −687 ± 3962
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2

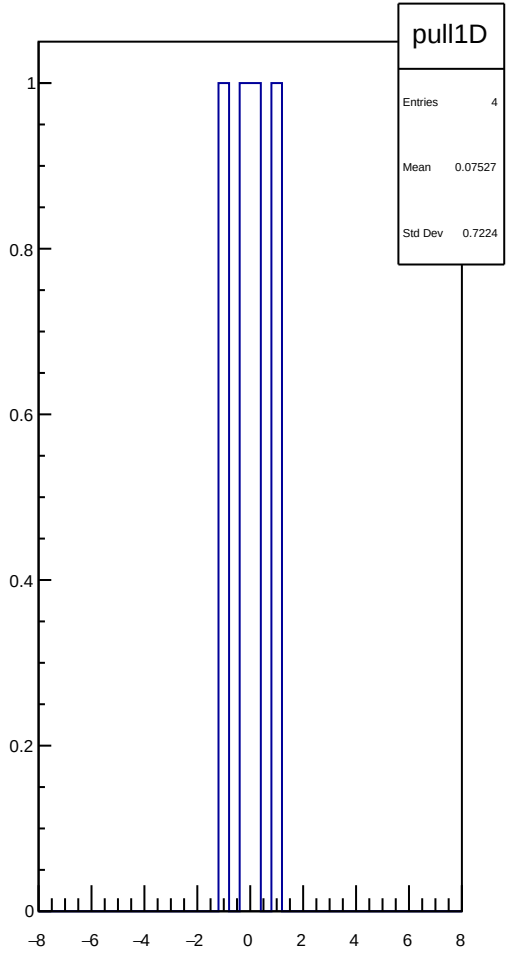

pull
Entries 4
Mean −7.188
Std Dev 8.774
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

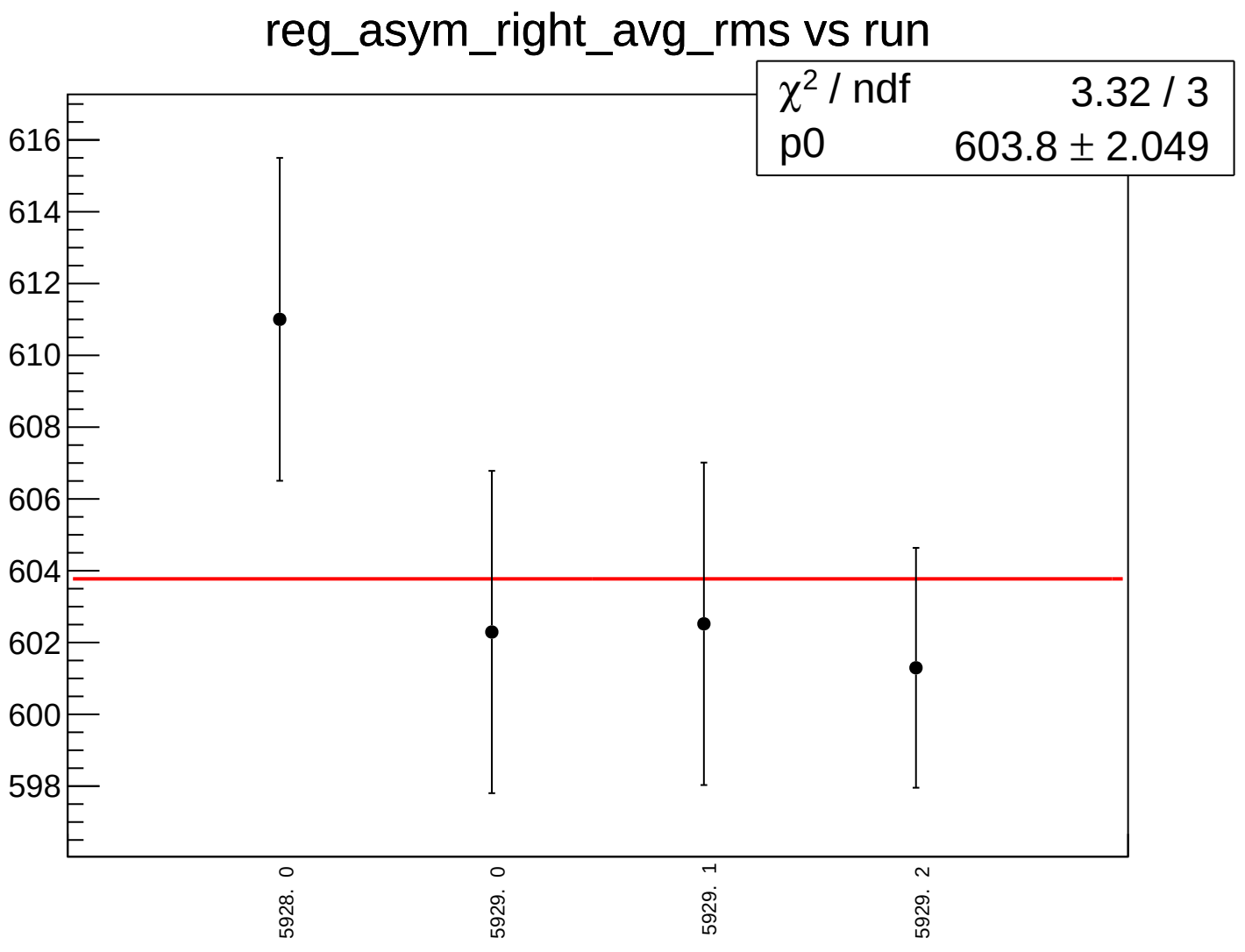

pull1D
Entries 4
Mean −0.02213
Std Dev 0.5056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

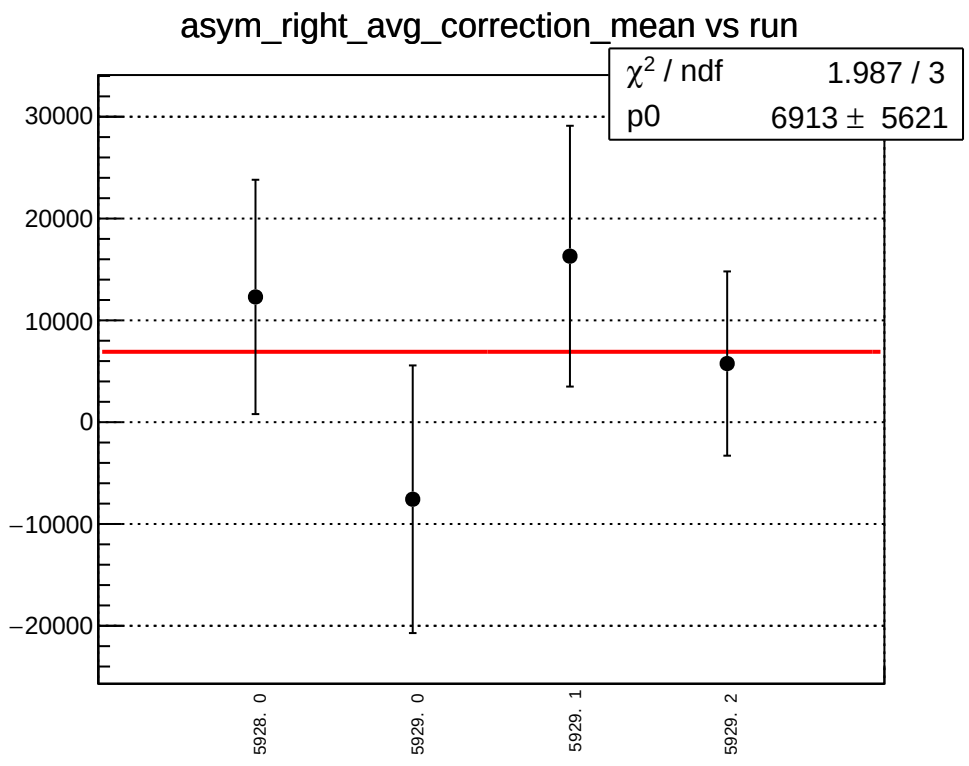

asym_left_dd_rms vs run
χ² / ndf 1.073 / 3
p0 825.6 ± 2.801
835
830
825
820
815
5928. 0
5929. 0
5929. 1
5929. 2

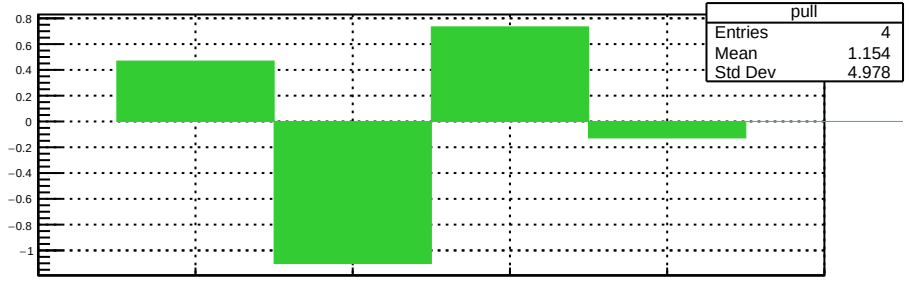

reg_asym_right_avg_mean vs run
χ² / ndf 2.11 / 3
p0 854.3 ± 2897
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

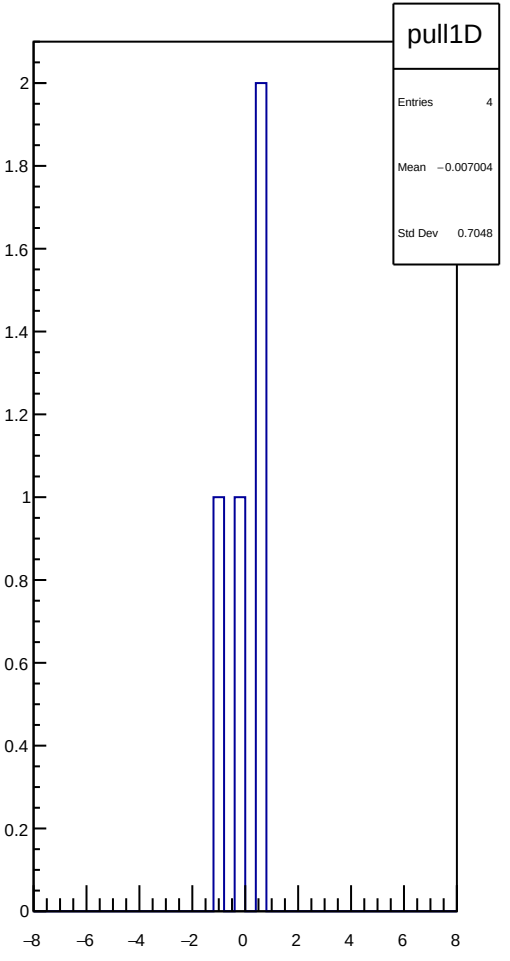

pull
Entries 4
Mean −7.208
Std Dev 9.103
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

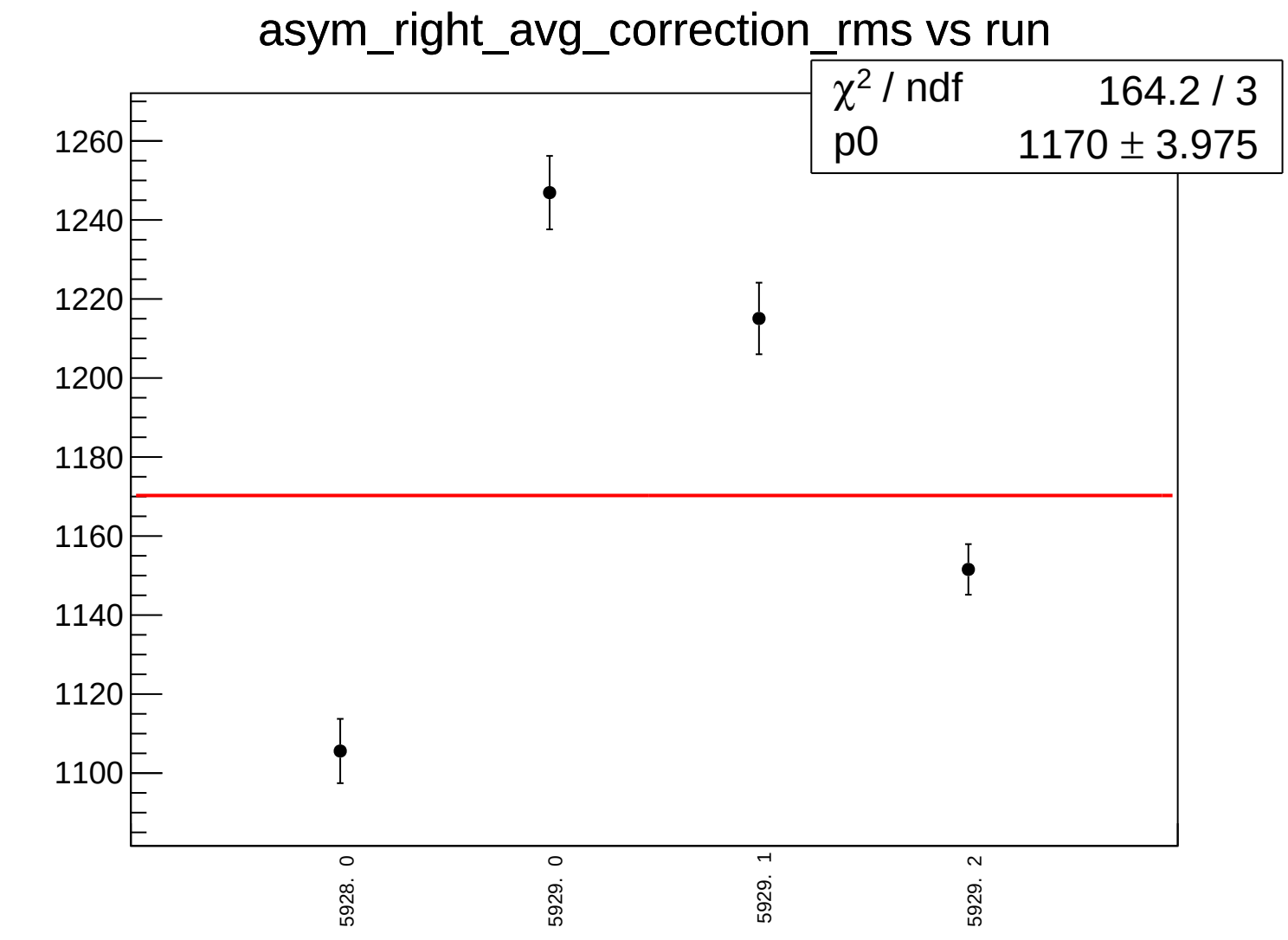

pull1D
Entries 4
Mean 0.07527
Std Dev 0.7224
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

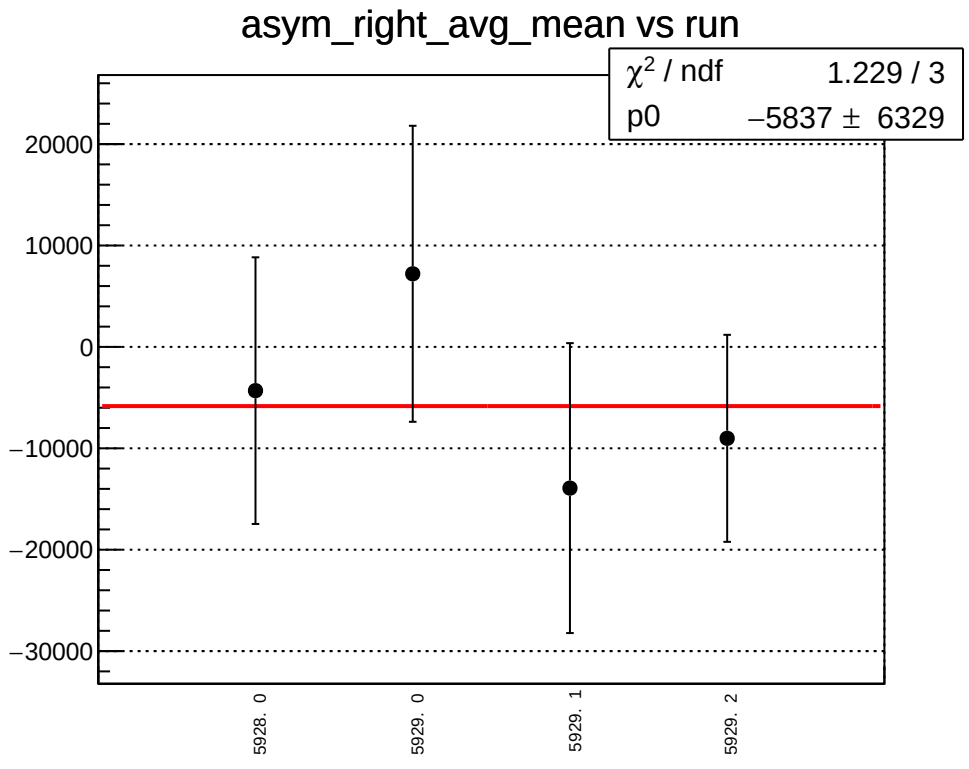

reg_asym_right_avg_rms vs run
χ^2 / ndf 3.32 / 3
p0 603.8 ± 2.049
616
614
612
610
608
606
604
602
600
598
5928. 0
5929. 0
5929. 1
5929. 2

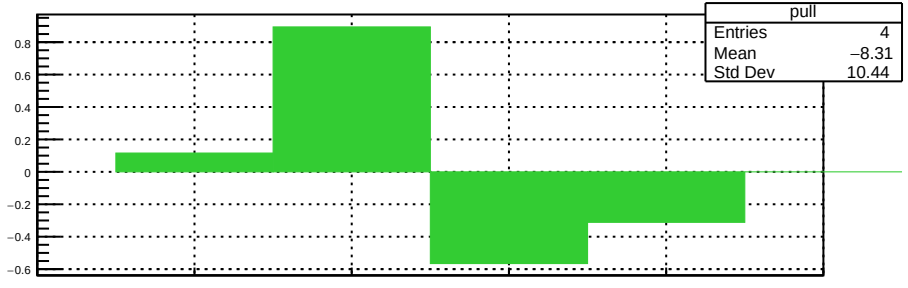

asym_right_avg_correction_mean vs run
χ² / ndf 1.987 / 3
p0 6913 ± 5621
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2

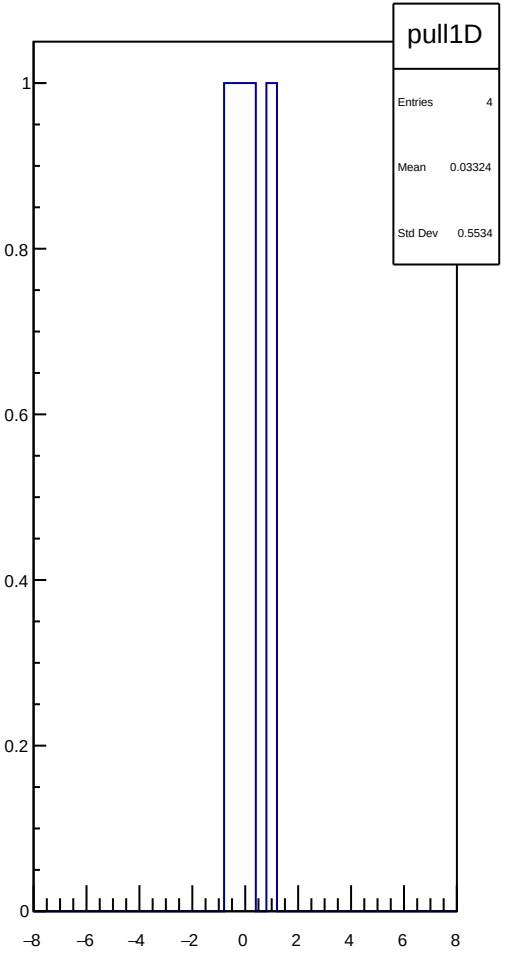

pull
Entries 4
Mean 1.154
Std Dev 4.978
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

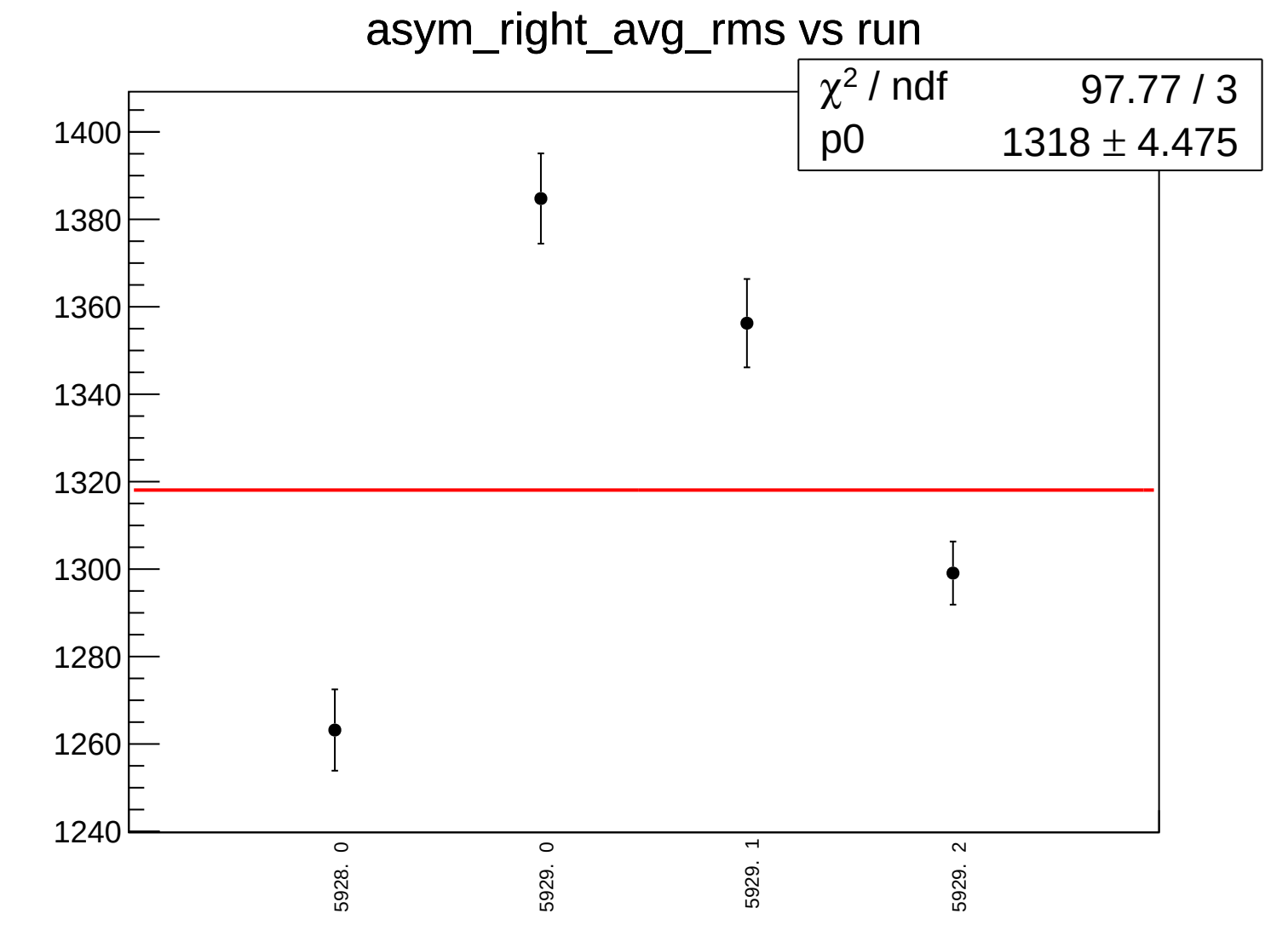

pull1D
Entries 4
Mean −0.007004
Std Dev 0.7048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

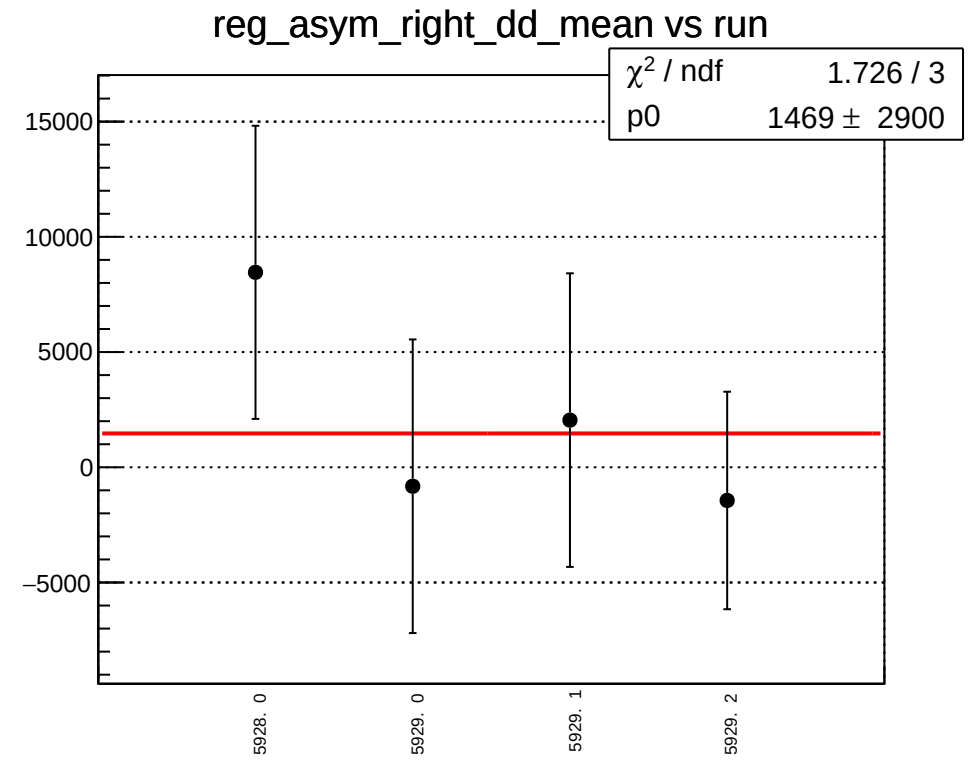

asym_right_avg_correction_rms vs run
χ² / ndf 164.2 / 3
p0 1170 ± 3.975
1260
1240
1220
1200
1180
1160
1140
1120
1100
5928. 0
5929. 0
5929. 1
5929. 2

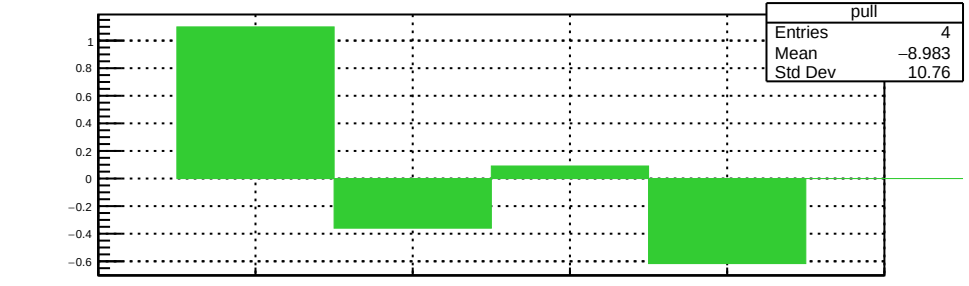

asym_right_avg_mean vs run
χ² / ndf 1.229 / 3
p0 −5837 ± 6329
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2

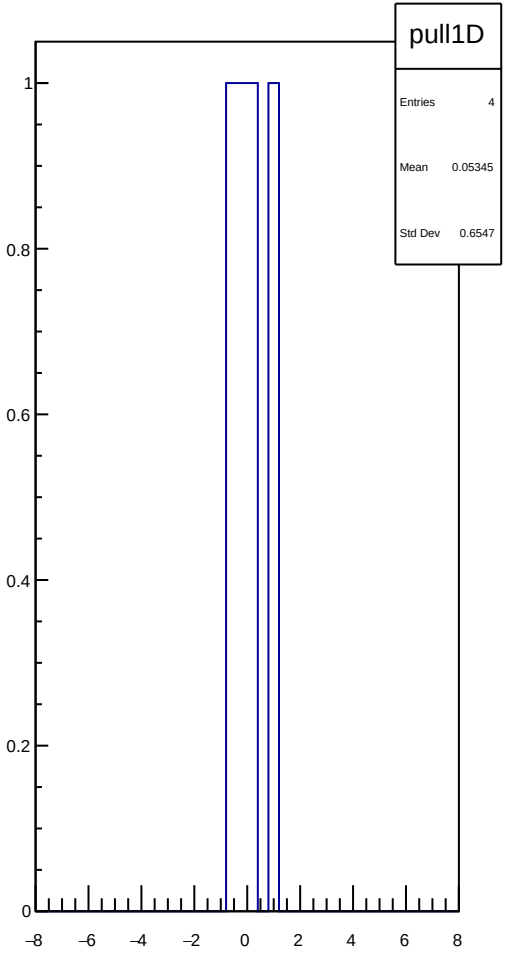

pull
Entries 4
Mean −8.31
Std Dev 10.44
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

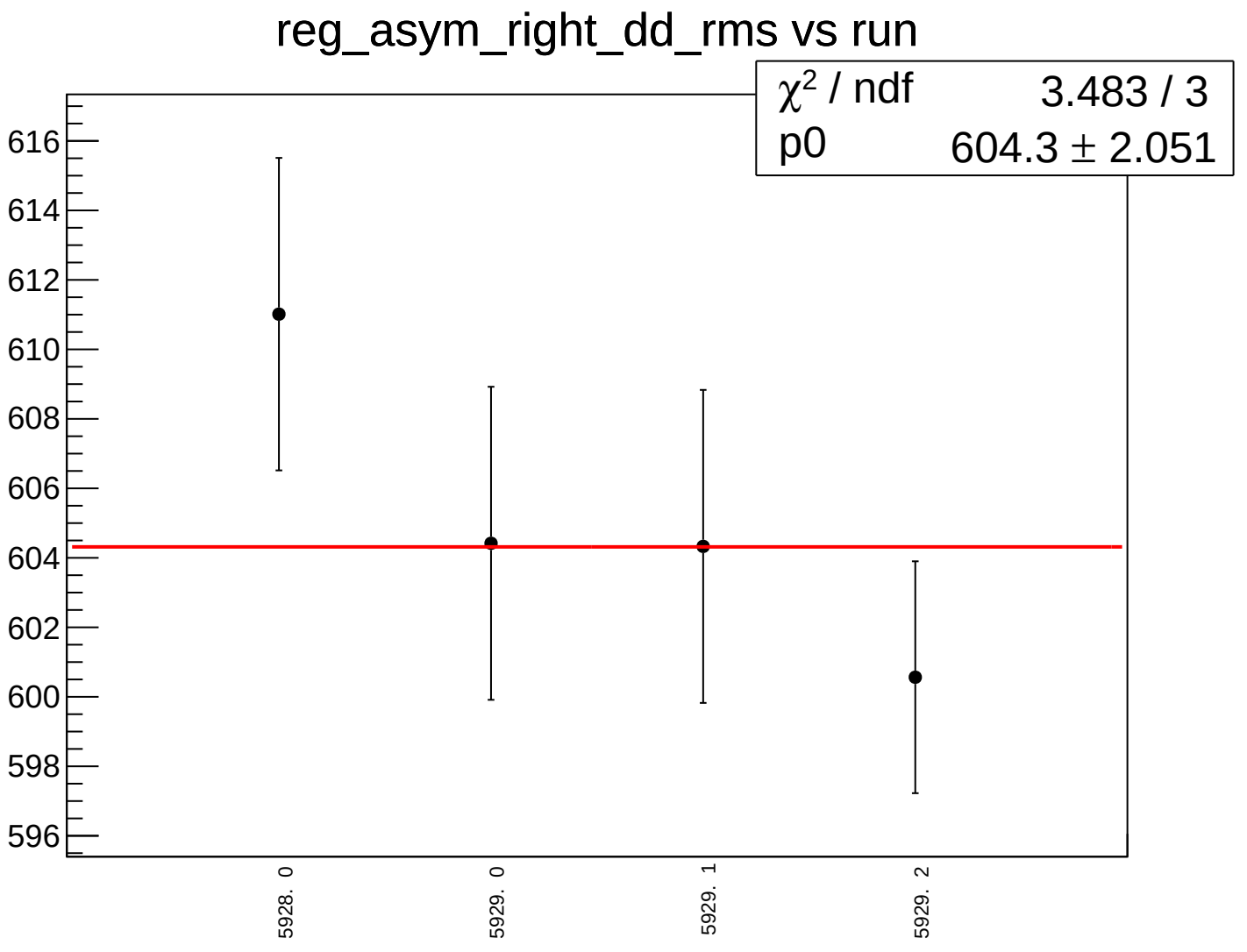

pull1D
Entries 4
Mean 0.03324
Std Dev 0.5534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

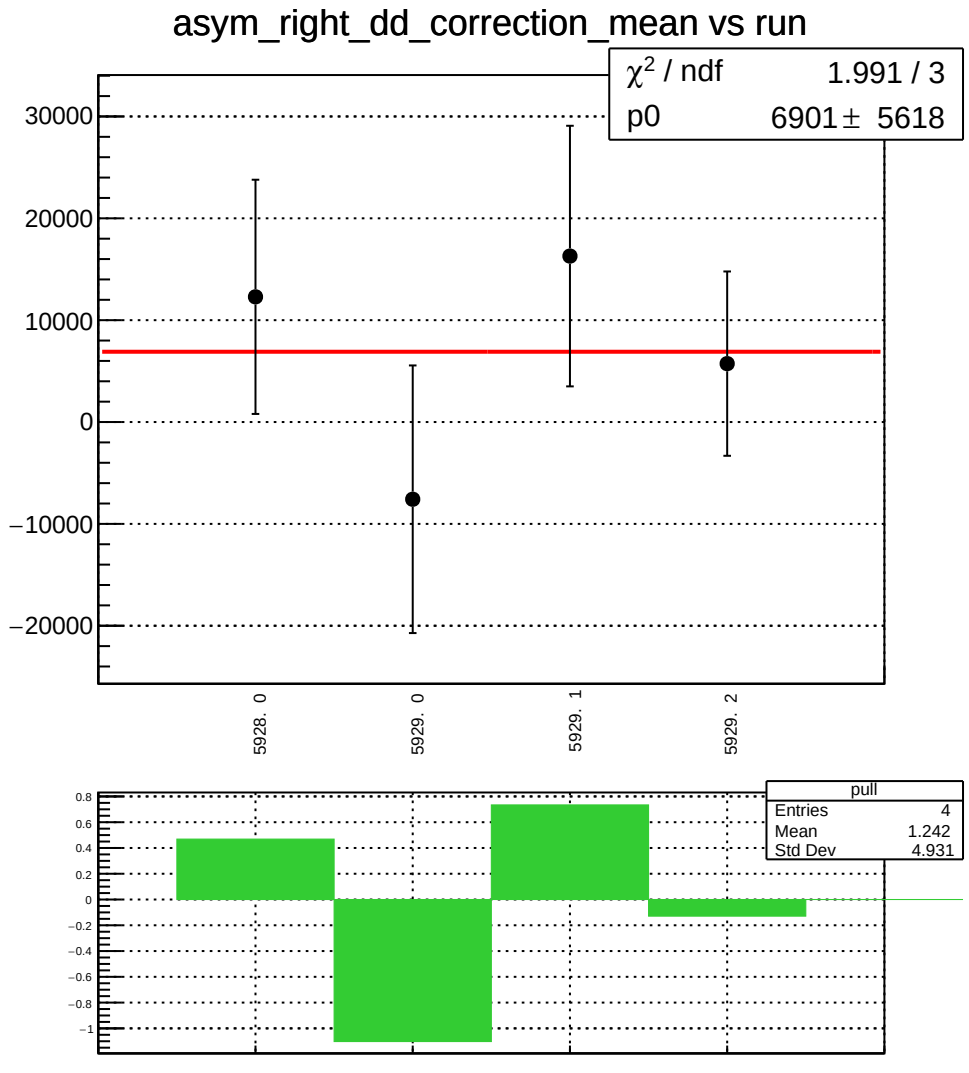

asym_right_avg_rms vs run
χ² / ndf 97.77 / 3
p0 1318 ± 4.475
1400
1380
1360
1340
1320
1300
1280
1260
1240
5928. 0
5929. 0
5929. 1
5929. 2

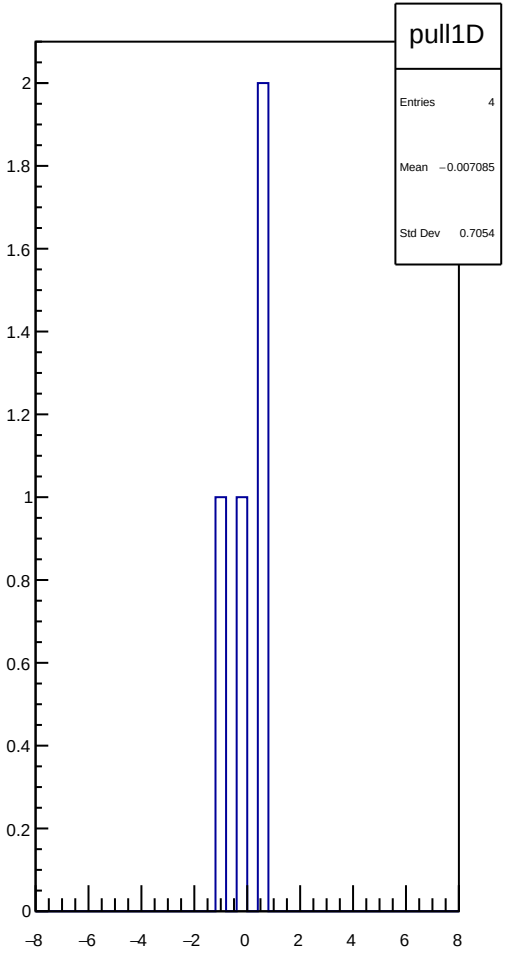

reg_asym_right_dd_mean vs run
χ² / ndf 1.726 / 3
p0 1469 ± 2900
15000
10000
5000
0
−5000
5928. 0
5929. 0
5929. 1
5929. 2

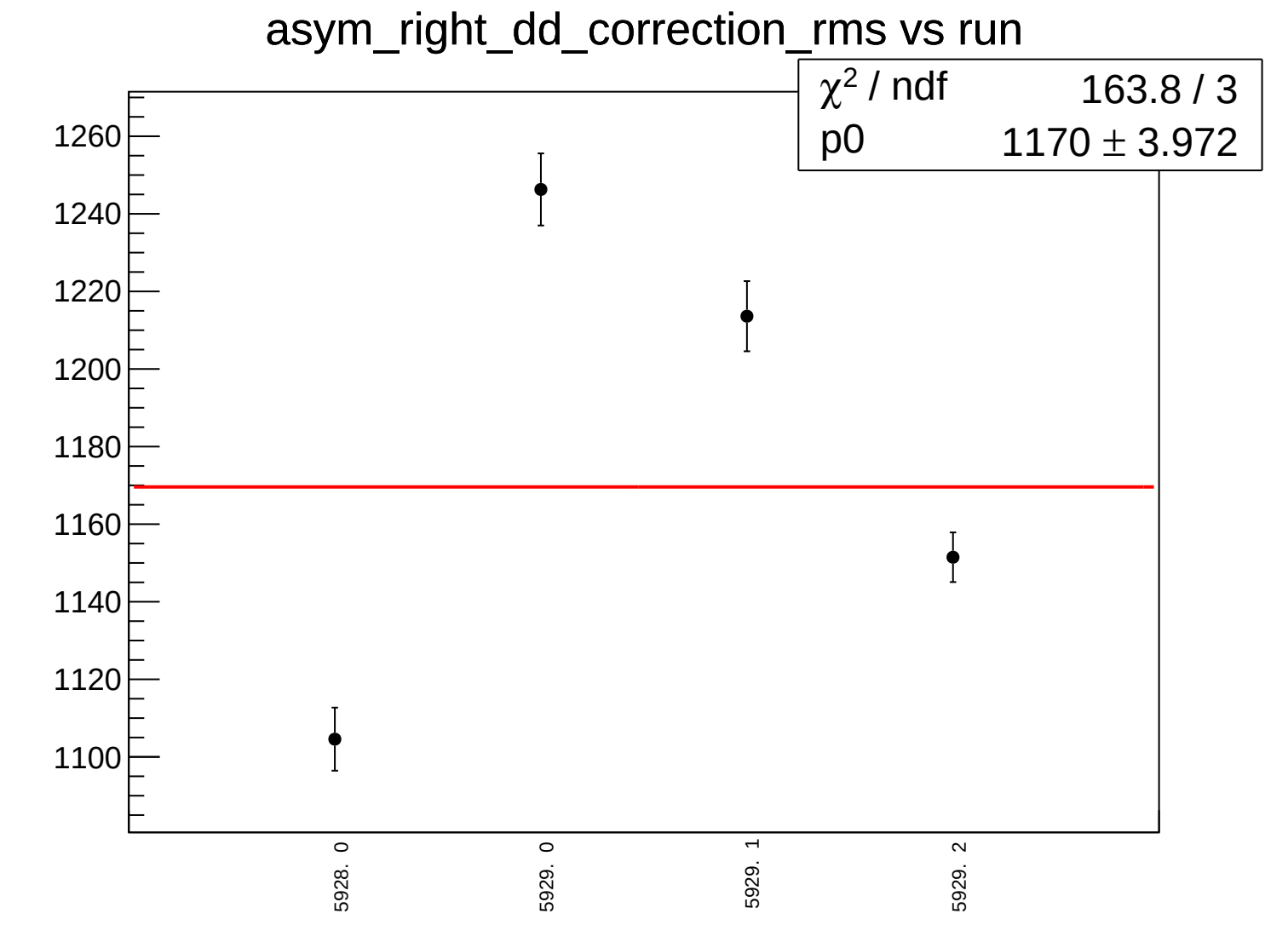

pull
Entries 4
Mean −8.983
Std Dev 10.76
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

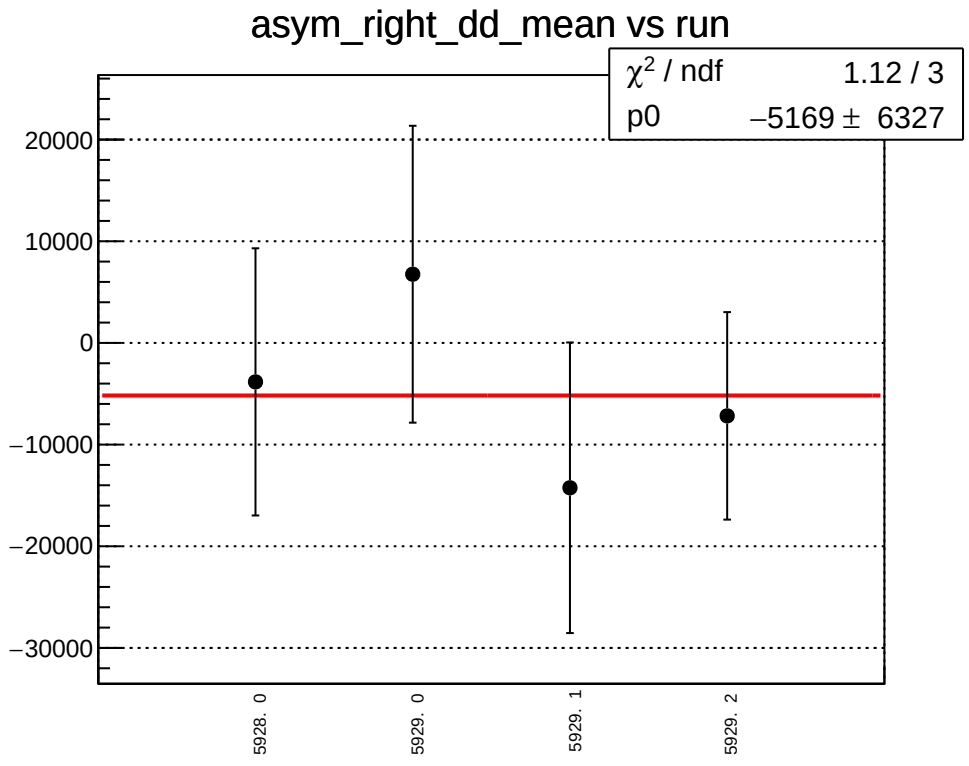

pull1D
Entries 4
Mean 0.05345
Std Dev 0.6547
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

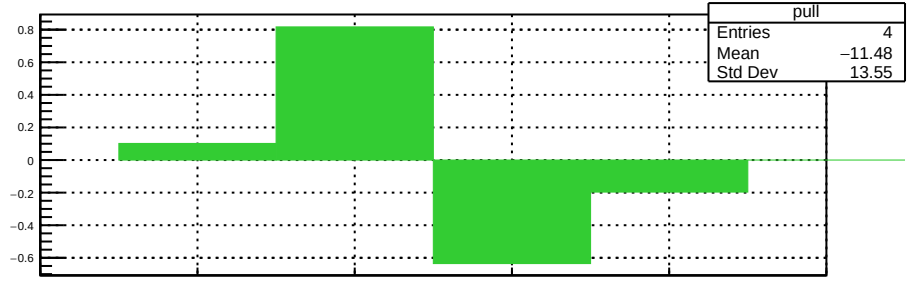

reg_asym_right_dd_rms vs run
χ² / ndf 3.483 / 3
p0 604.3 ± 2.051
616
614
612
610
608
606
604
602
600
598
596
5928. 0
5929. 0
5929. 1
5929. 2

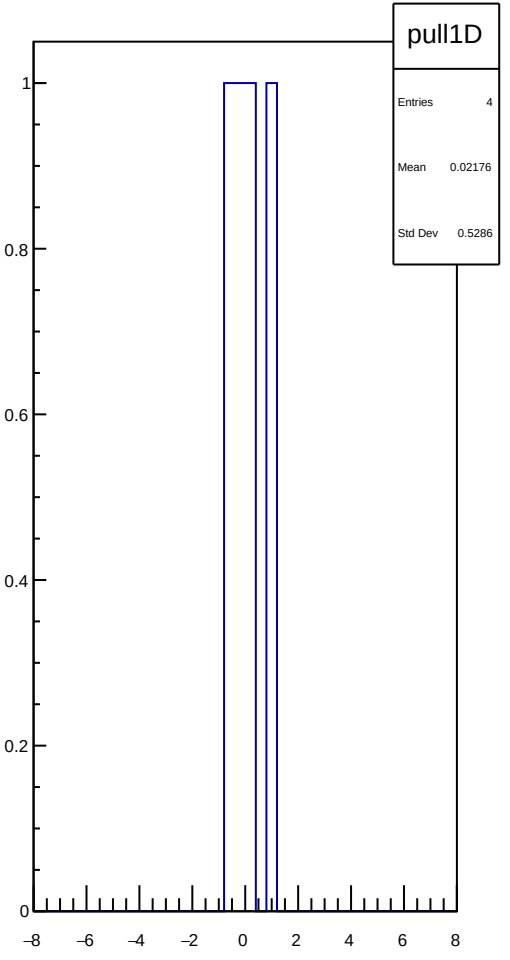

asym_right_dd_correction_mean vs run
χ² / ndf 1.991 / 3
p0 6901 ± 5618
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.242
Std Dev 4.931
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

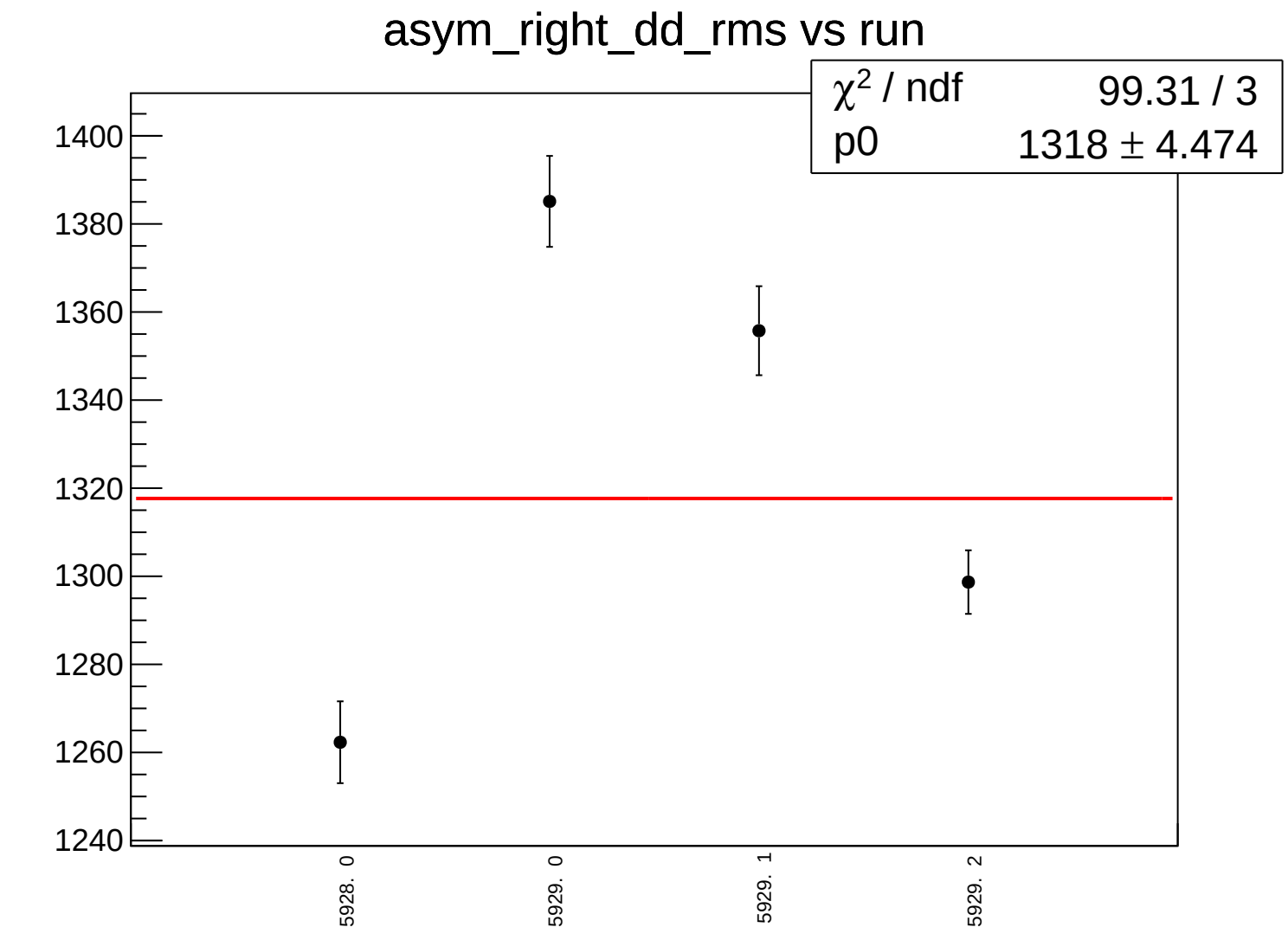

pull1D
Entries 4
Mean −0.007085
Std Dev 0.7054
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

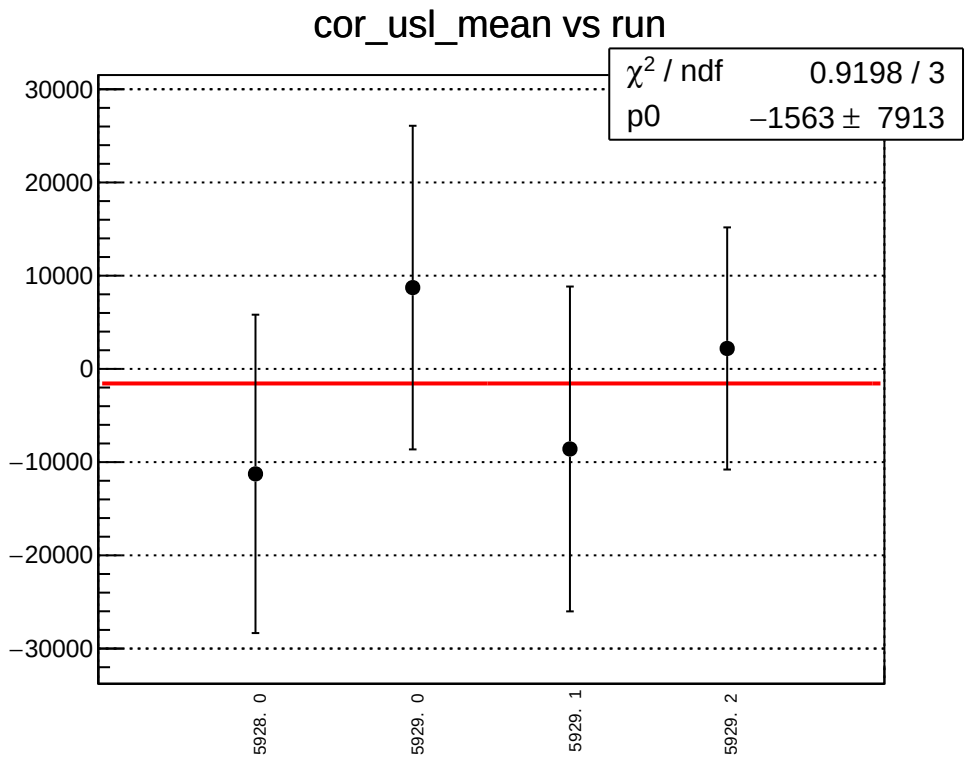

asym_right_dd_correction_rms vs run
χ² / ndf 163.8 / 3
p0 1170 ± 3.972
1260
1240
1220
1200
1180
1160
1140
1120
1100
5928. 0
5929. 0
5929. 1
5929. 2

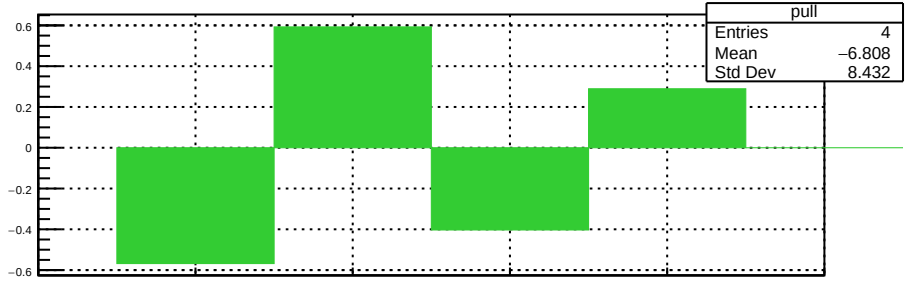

asym_right_dd_mean vs run
χ² / ndf 1.12 / 3
p0 −5169 ± 6327
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2

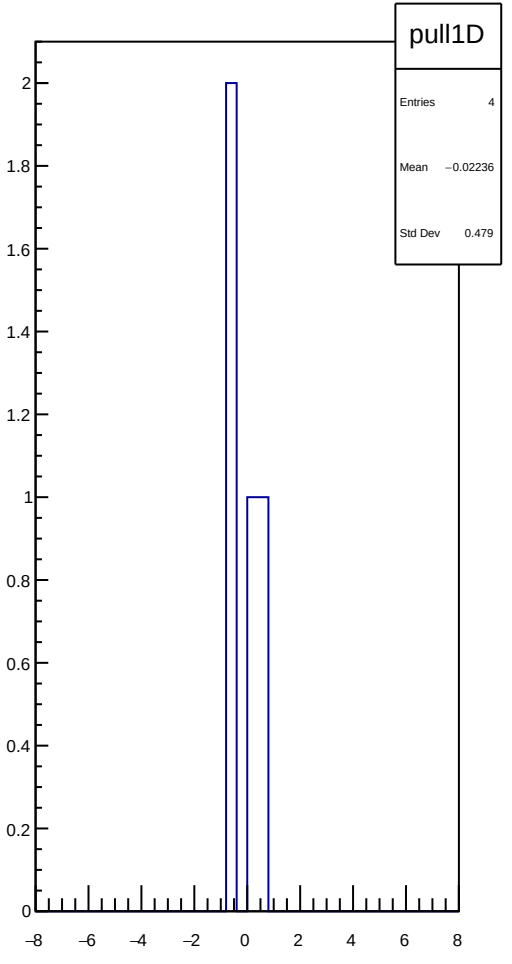

pull
Entries 4
Mean −11.48
Std Dev 13.55
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

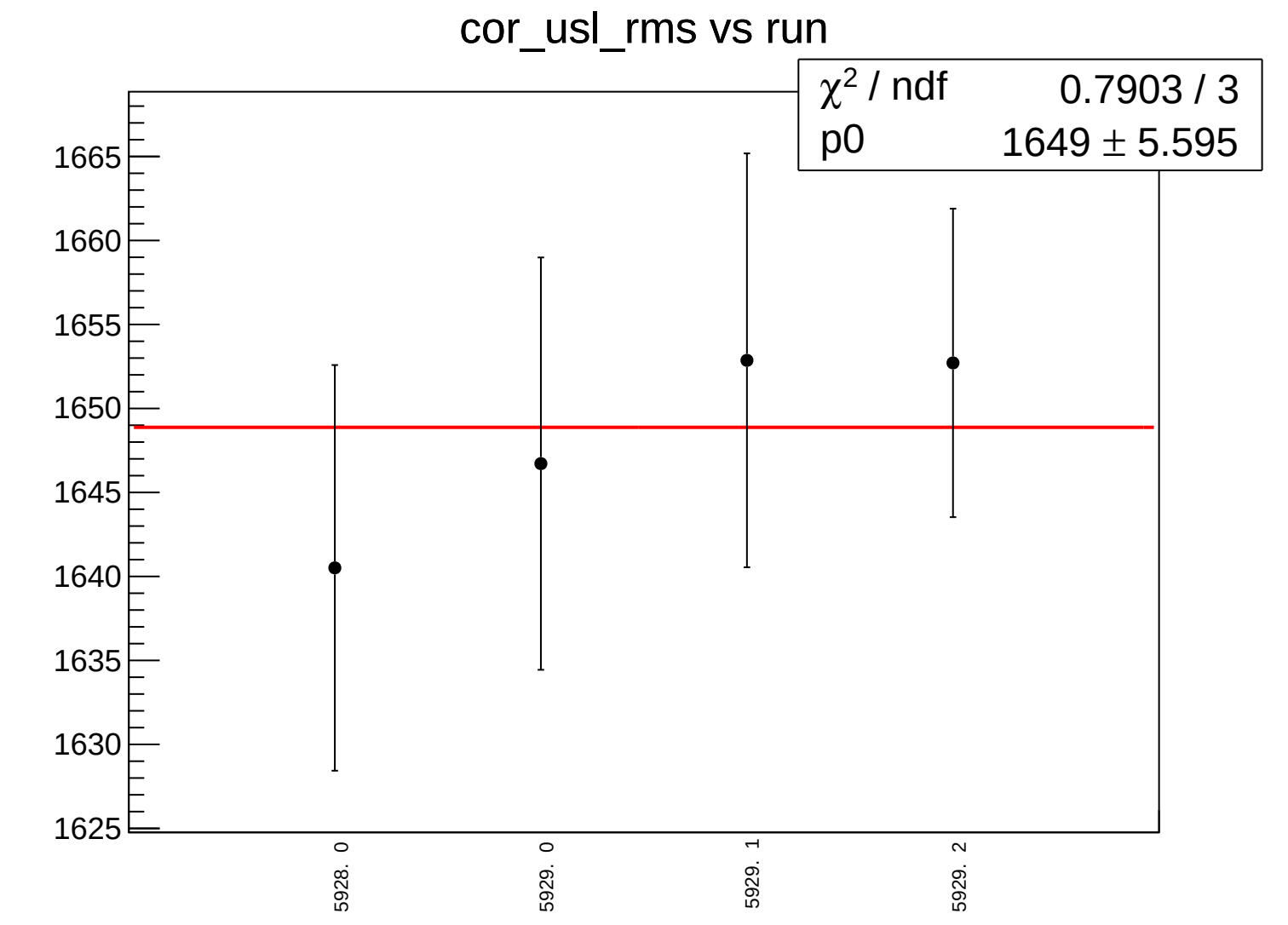

pull1D
Entries 4
Mean 0.02176
Std Dev 0.5286
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

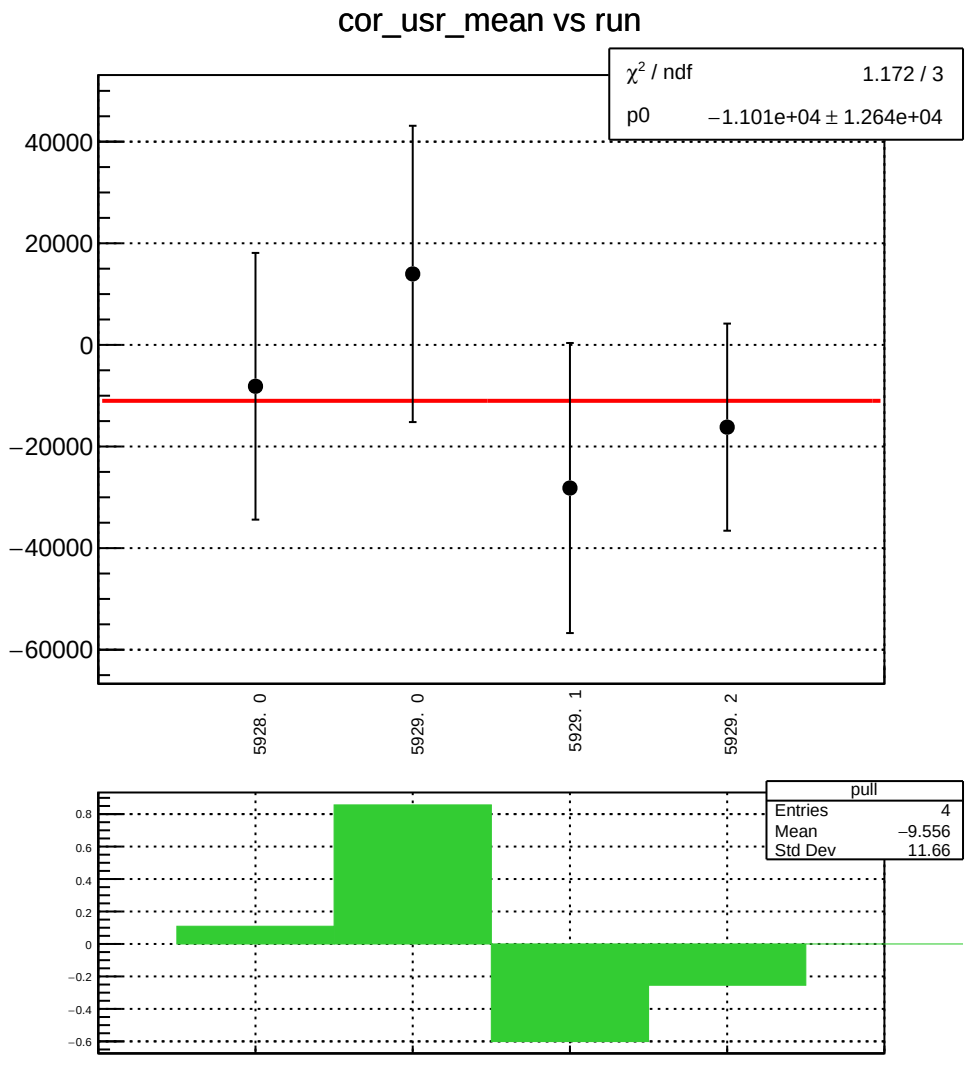

asym_right_dd_rms vs run
χ² / ndf 99.31 / 3
p0 1318 ± 4.474
1400
1380
1360
1340
1320
1300
1280
1260
1240
5928. 0
5929. 0
5929. 1
5929. 2

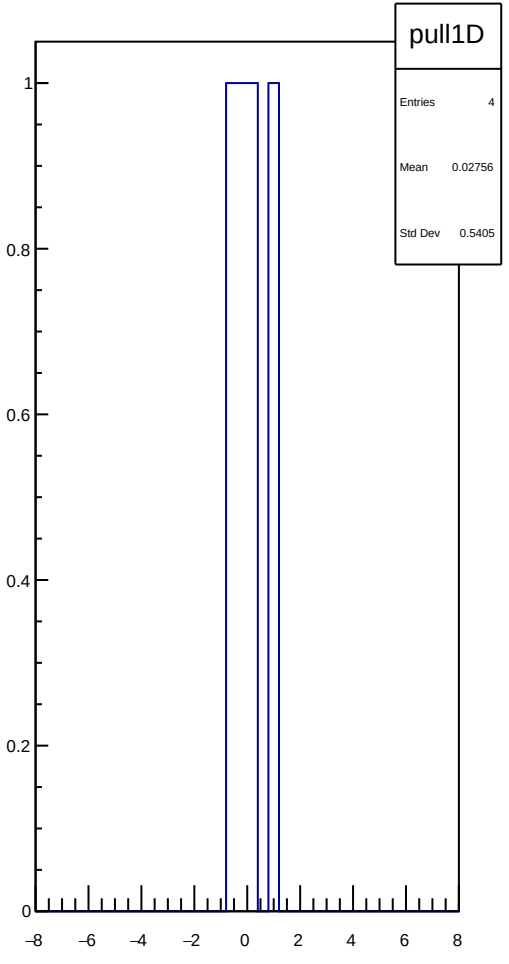

cor_usl_mean vs run
χ² / ndf 0.9198 / 3
p0 −1563 ± 7913
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2

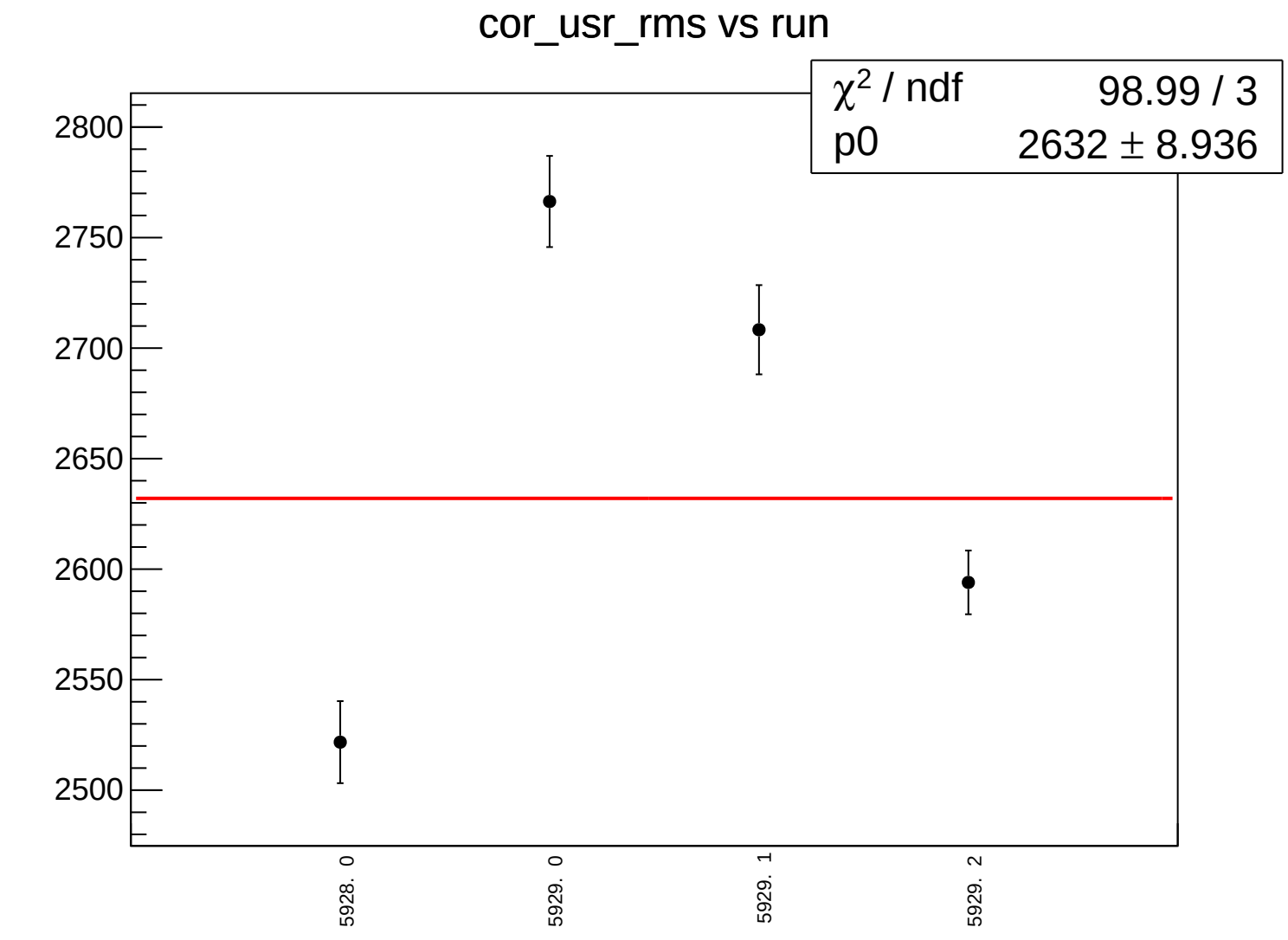

pull
Entries 4
Mean −6.808
Std Dev 8.432
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

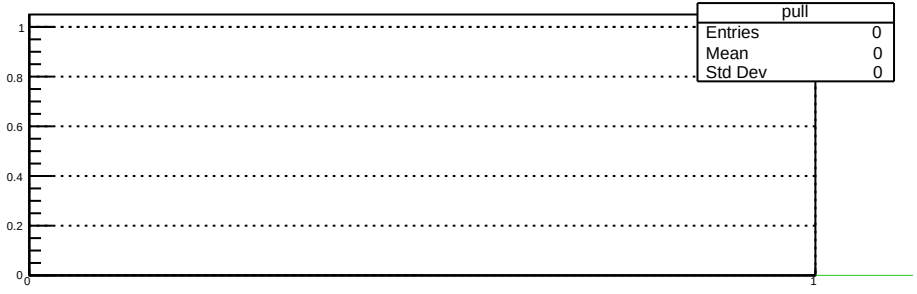

pull1D
Entries 4
Mean −0.02236
Std Dev 0.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

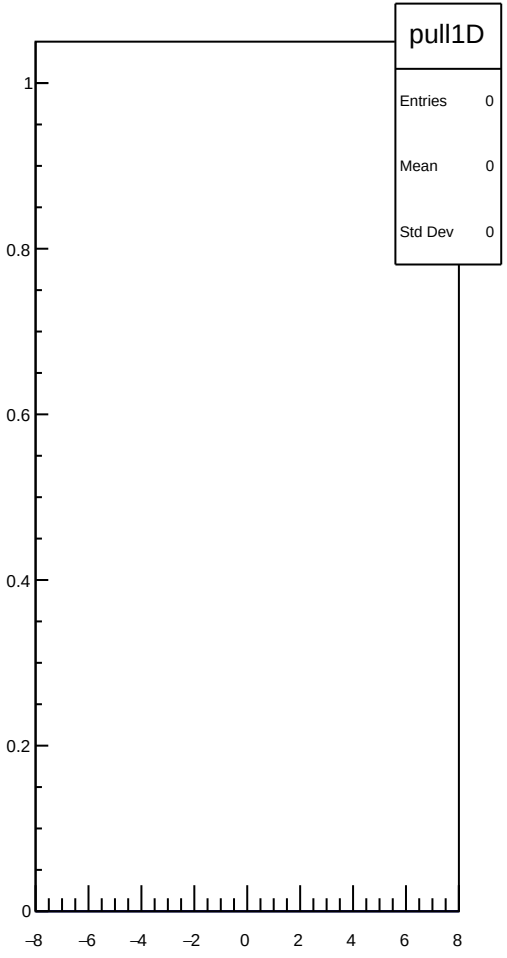

cor_usl_rms vs run
χ² / ndf 0.7903 / 3
p0 1649 ± 5.595
1665
1660
1655
1650
1645
1640
1635
1630
1625
5928. 0
5929. 0
5929. 1
5929. 2

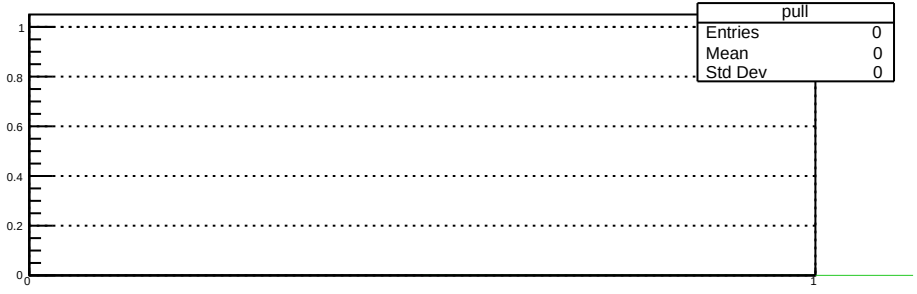

cor_usr_mean vs run
χ² / ndf 1.172 / 3
p0 −1.101e+04 ± 1.264e+04
40000
20000
0
−20000
−40000
−60000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.556
Std Dev 11.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

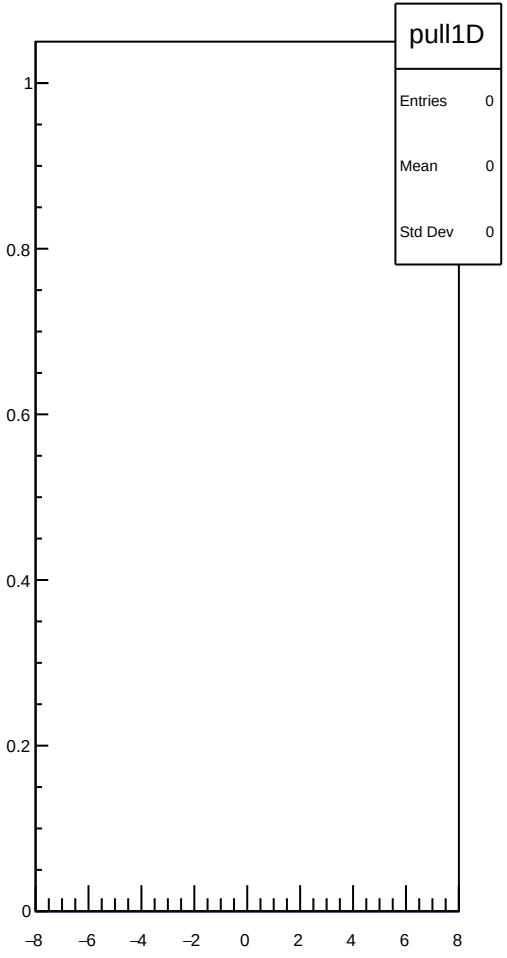

pull1D
Entries 4
Mean 0.02756
Std Dev 0.5405
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

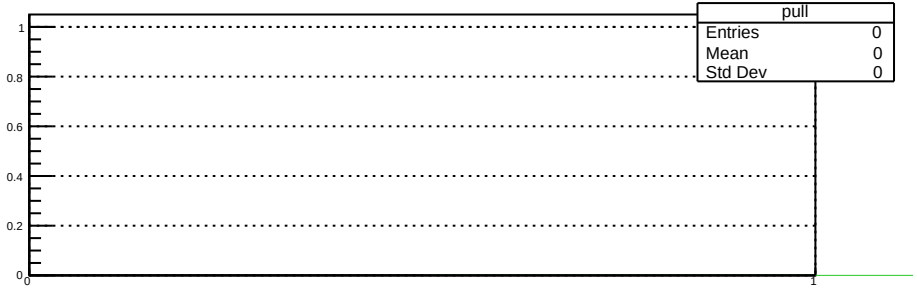

cor_usr_rms vs run
χ² / ndf 98.99 / 3
p0 2632 ± 8.936
2800
2750
2700
2650
2600
2550
2500
5928. 0
5929. 0
5929. 1
5929. 2

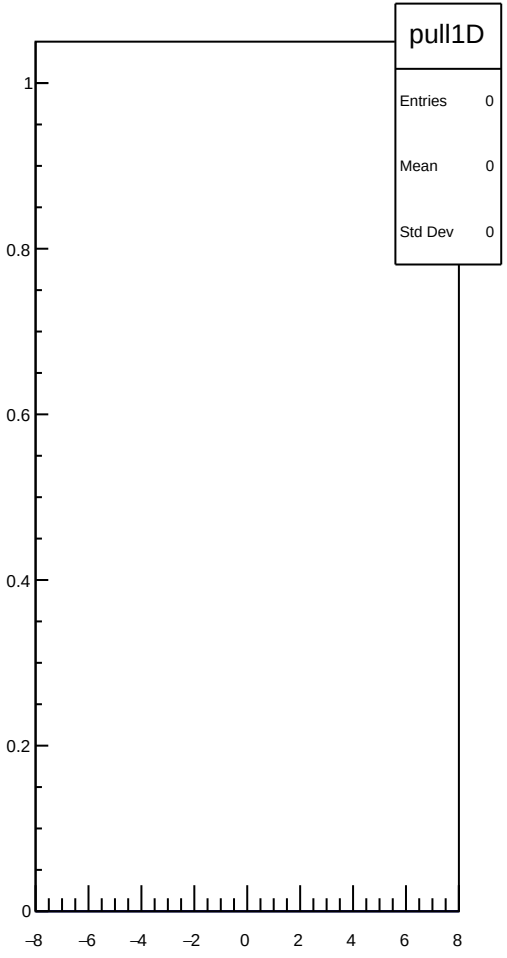

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

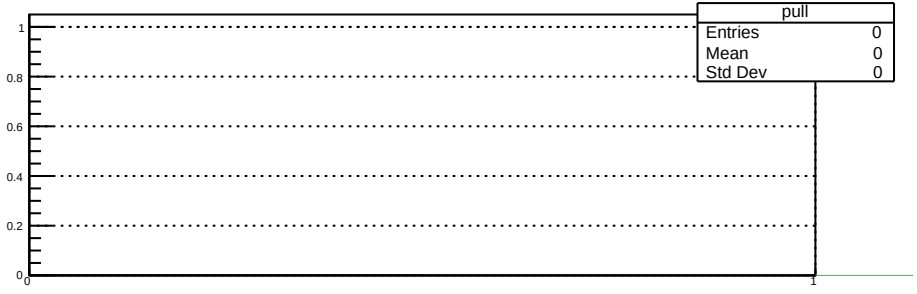

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

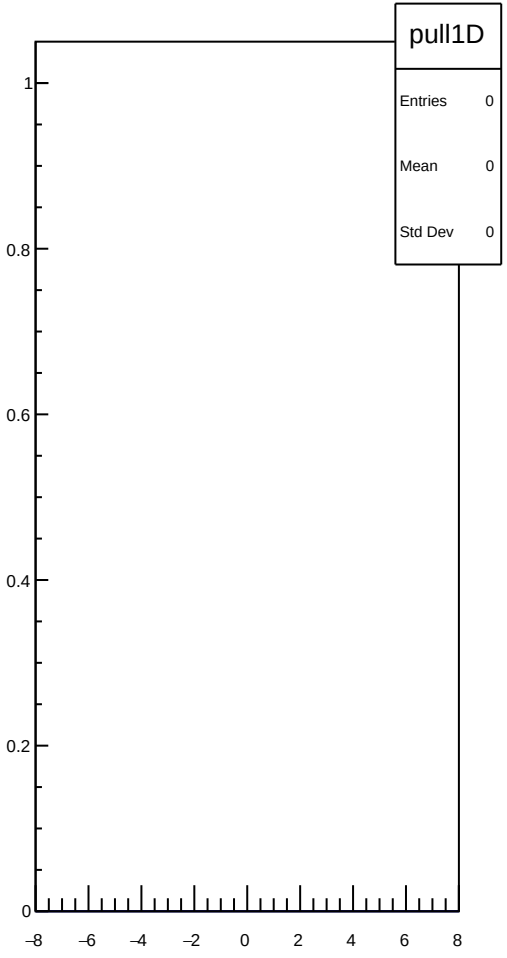

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

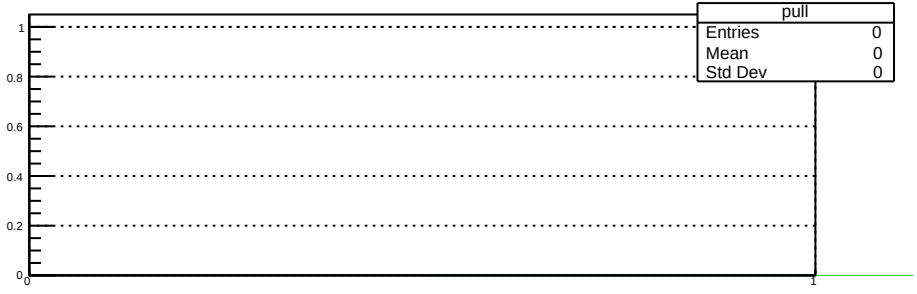

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

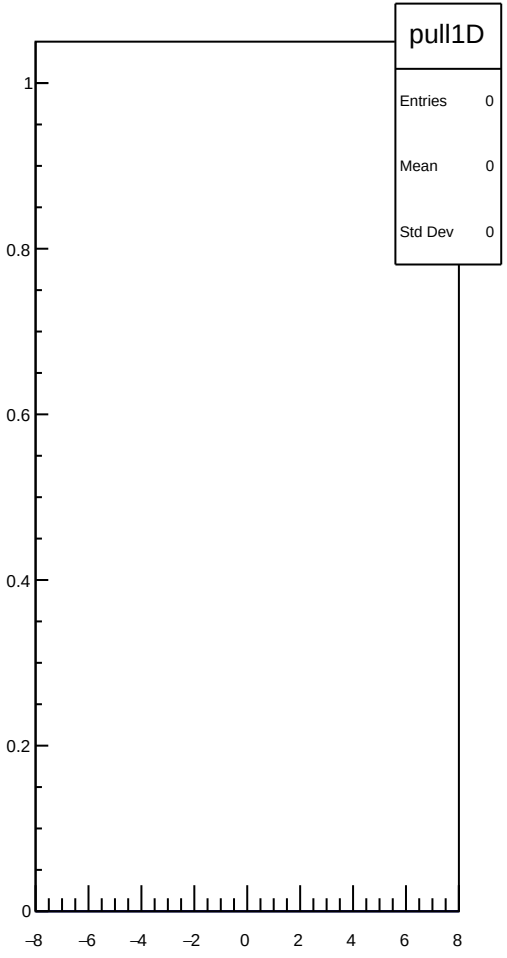

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

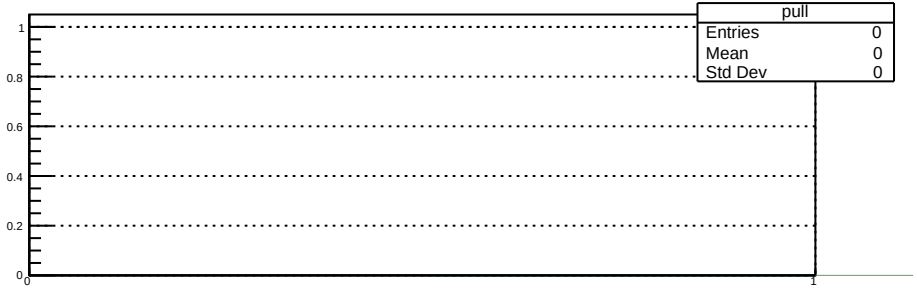

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

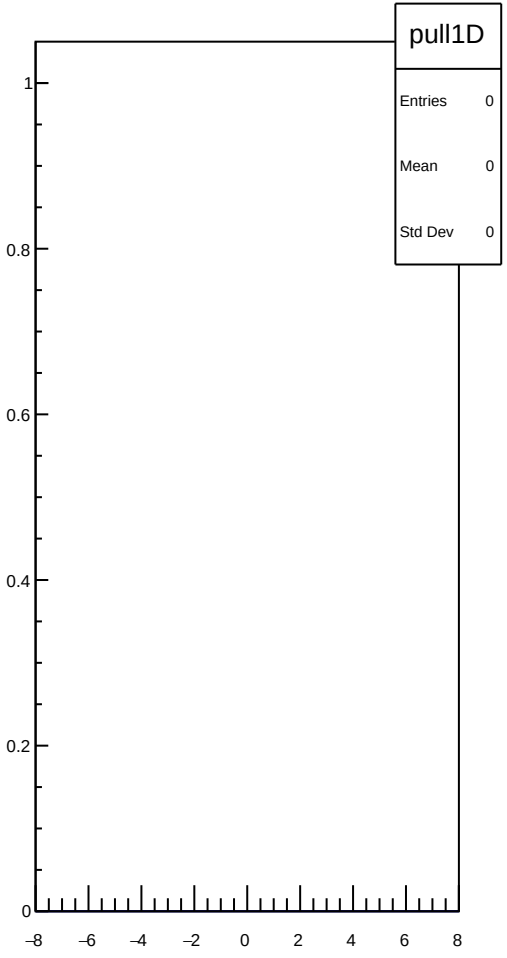

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

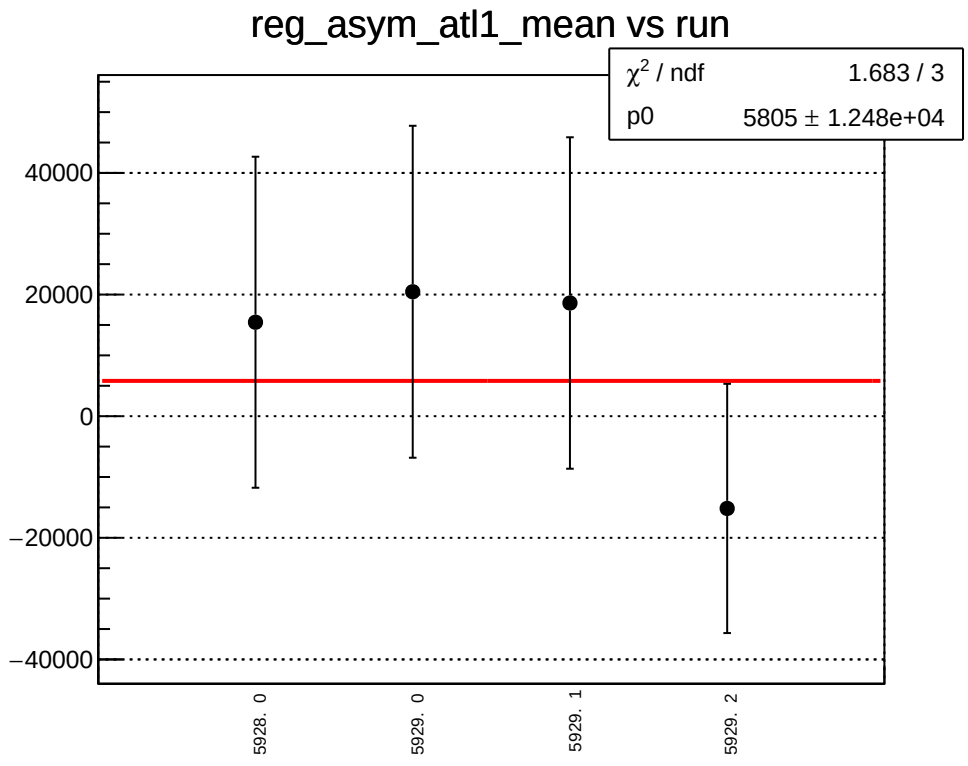

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

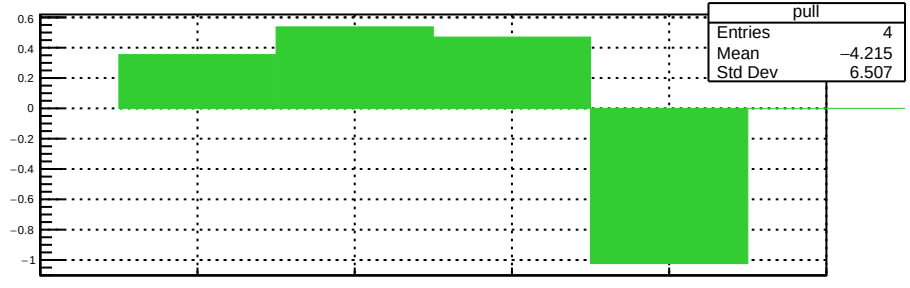

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

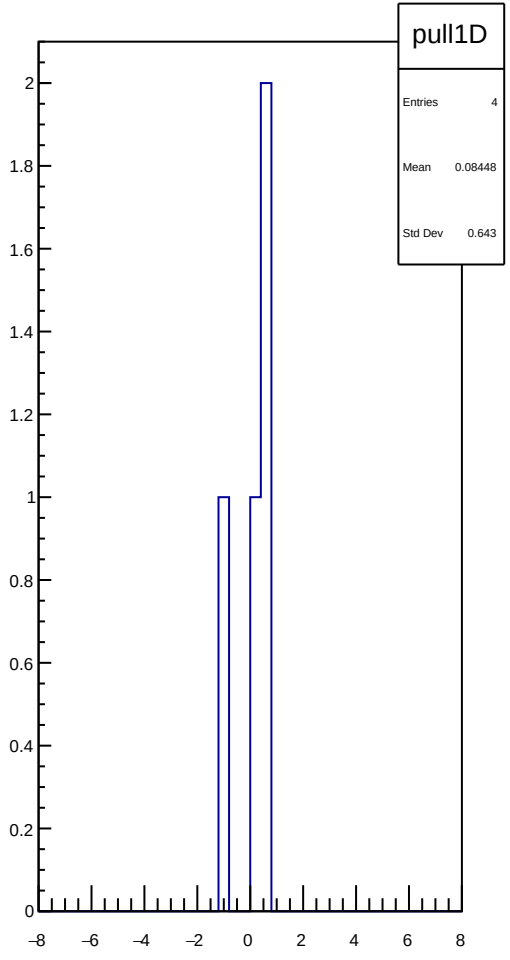

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

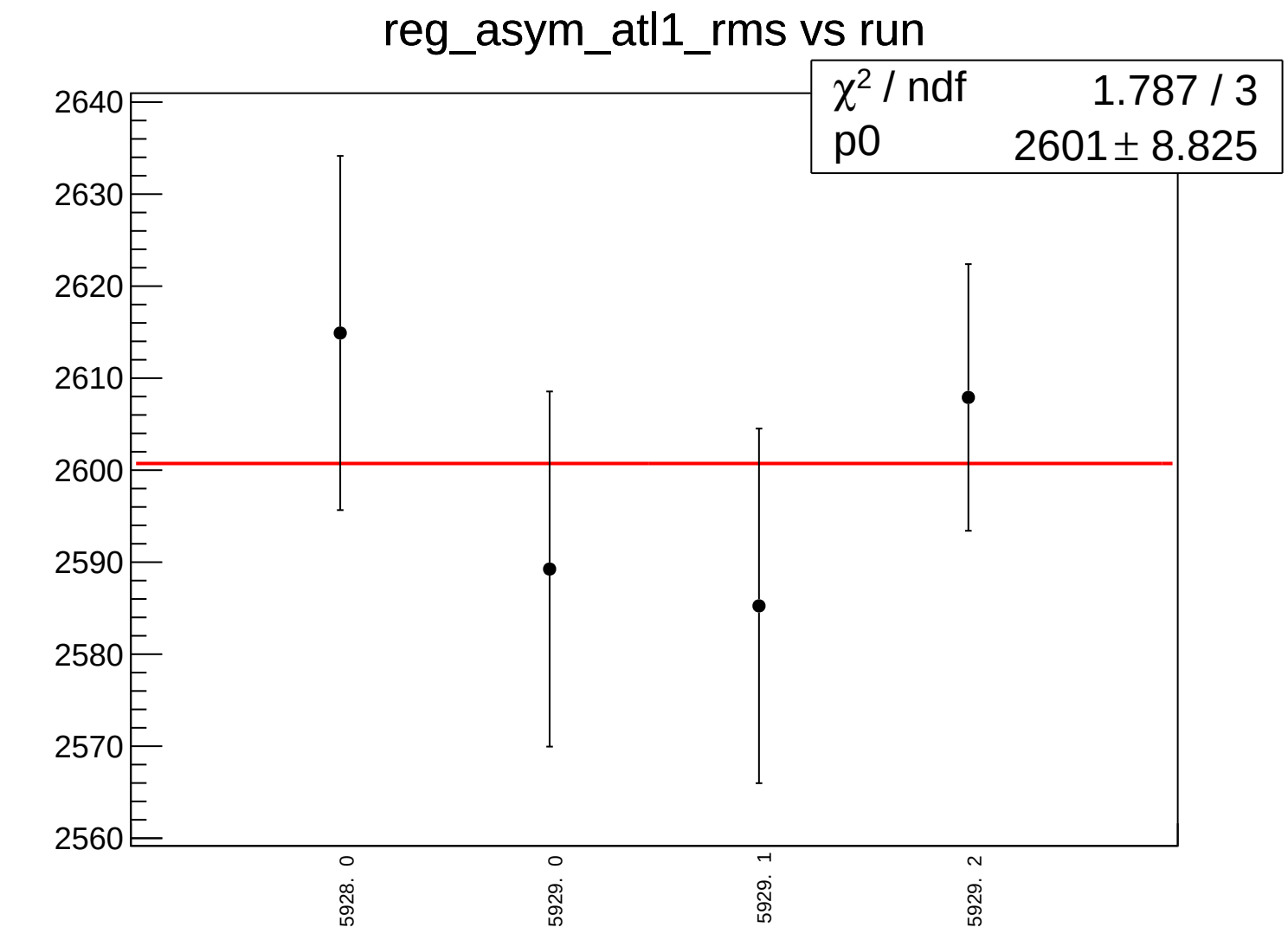

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

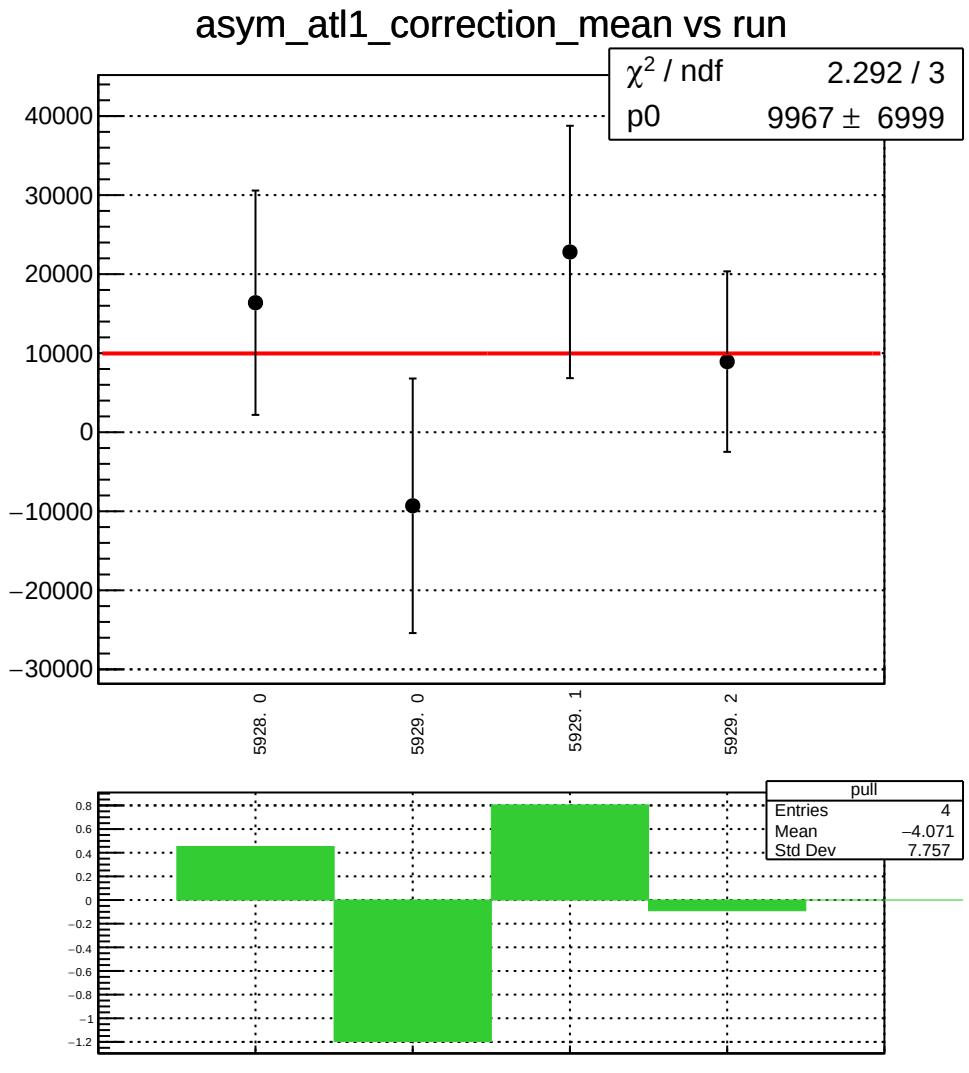

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

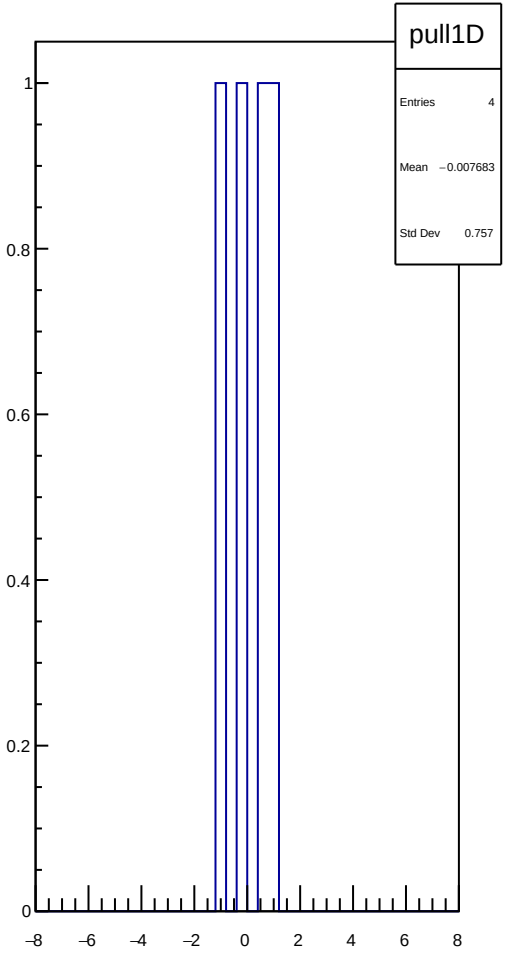

reg_asym_atl1_mean vs run
χ² / ndf 1.683 / 3
p0 5805 ± 1.248e+04
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2

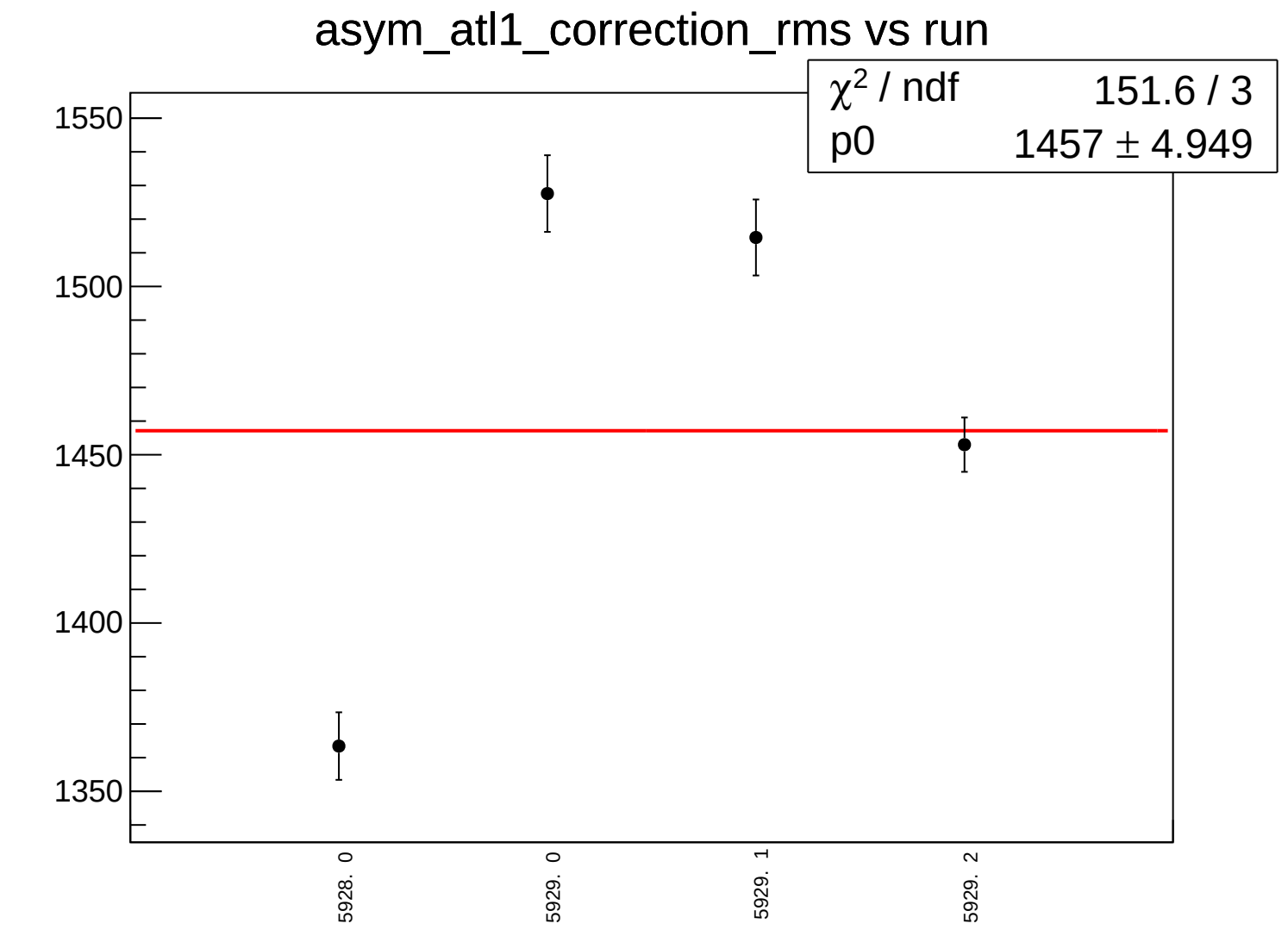

pull
Entries 4
Mean −4.215
Std Dev 6.507
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

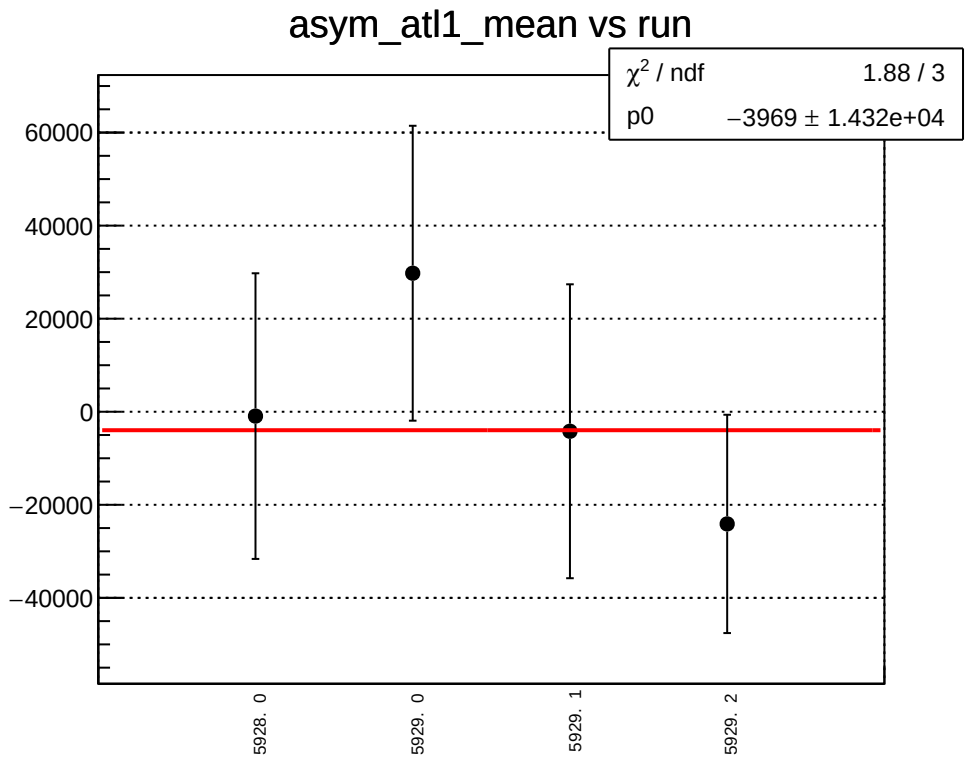

pull1D
Entries 4
Mean 0.08448
Std Dev 0.643
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

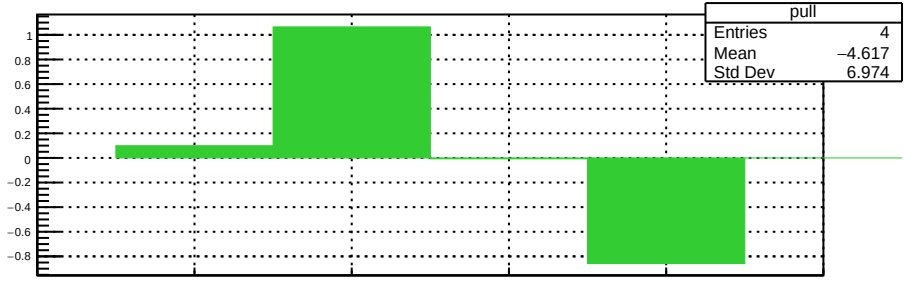

reg_asym_atl1_rms vs run
χ² / ndf 1.787 / 3
p0 2601 ± 8.825
2640
2630
2620
2610
2600
2590
2580
2570
2560
5928. 0
5929. 0
5929. 1
5929. 2

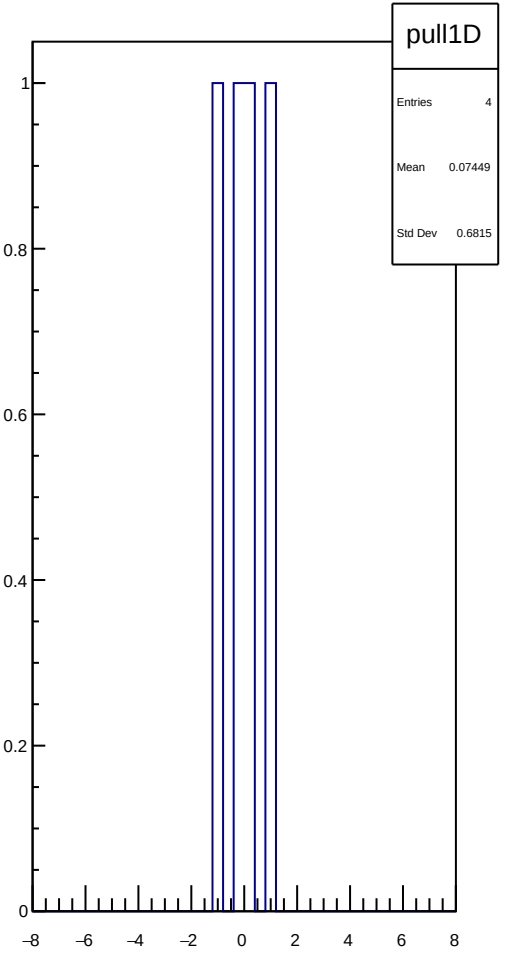

asym_atl1_correction_mean vs run
χ² / ndf 2.292 / 3
p0 9967 ± 6999
40000
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.071
Std Dev 7.757
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

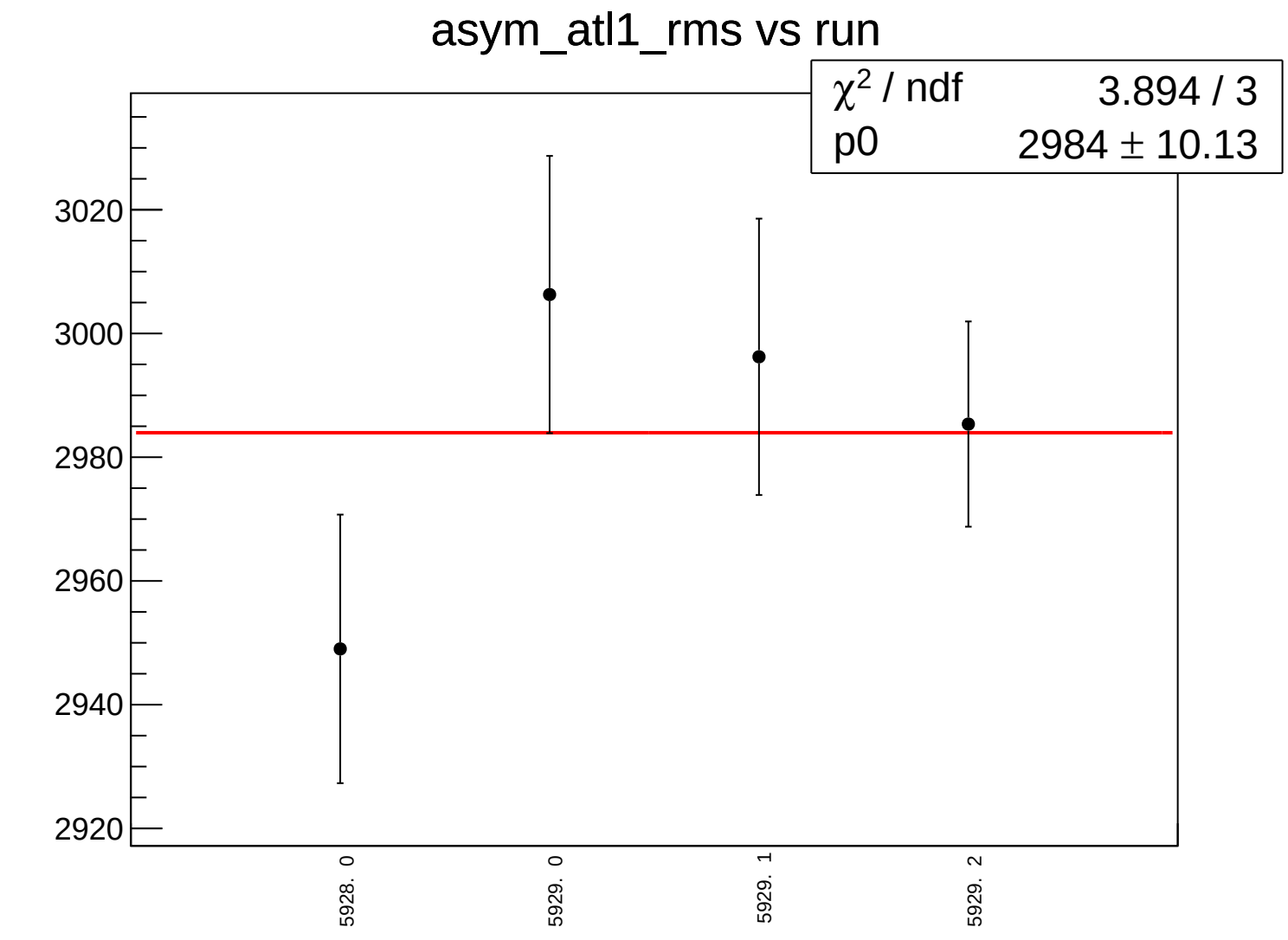

pull1D
Entries 4
Mean −0.007683
Std Dev 0.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

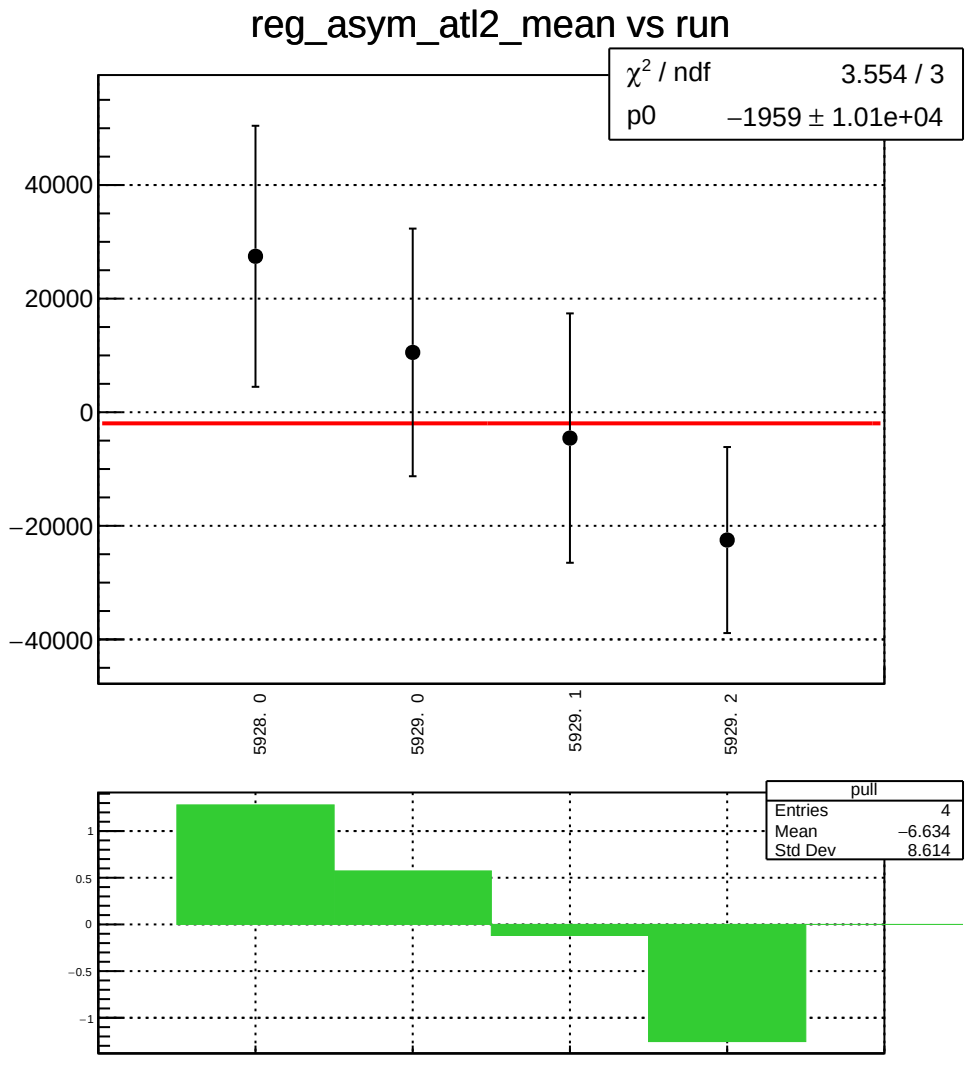

asym_atl1_correction_rms vs run
χ² / ndf 151.6 / 3
p0 1457 ± 4.949
1550
1500
1450
1400
1350
5928. 0
5929. 0
5929. 1
5929. 2

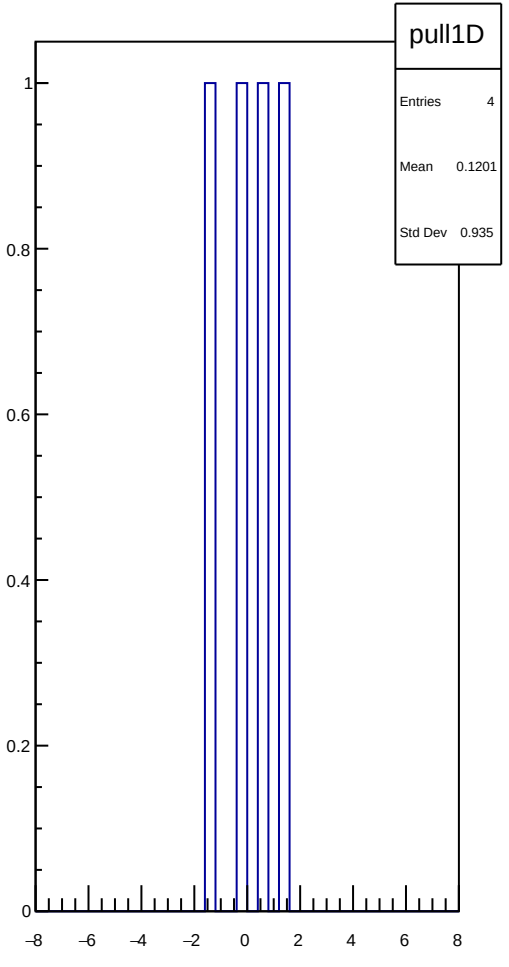

asym_atl1_mean vs run
χ² / ndf 1.88 / 3
p0 −3969 ± 1.432e+04
60000
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2

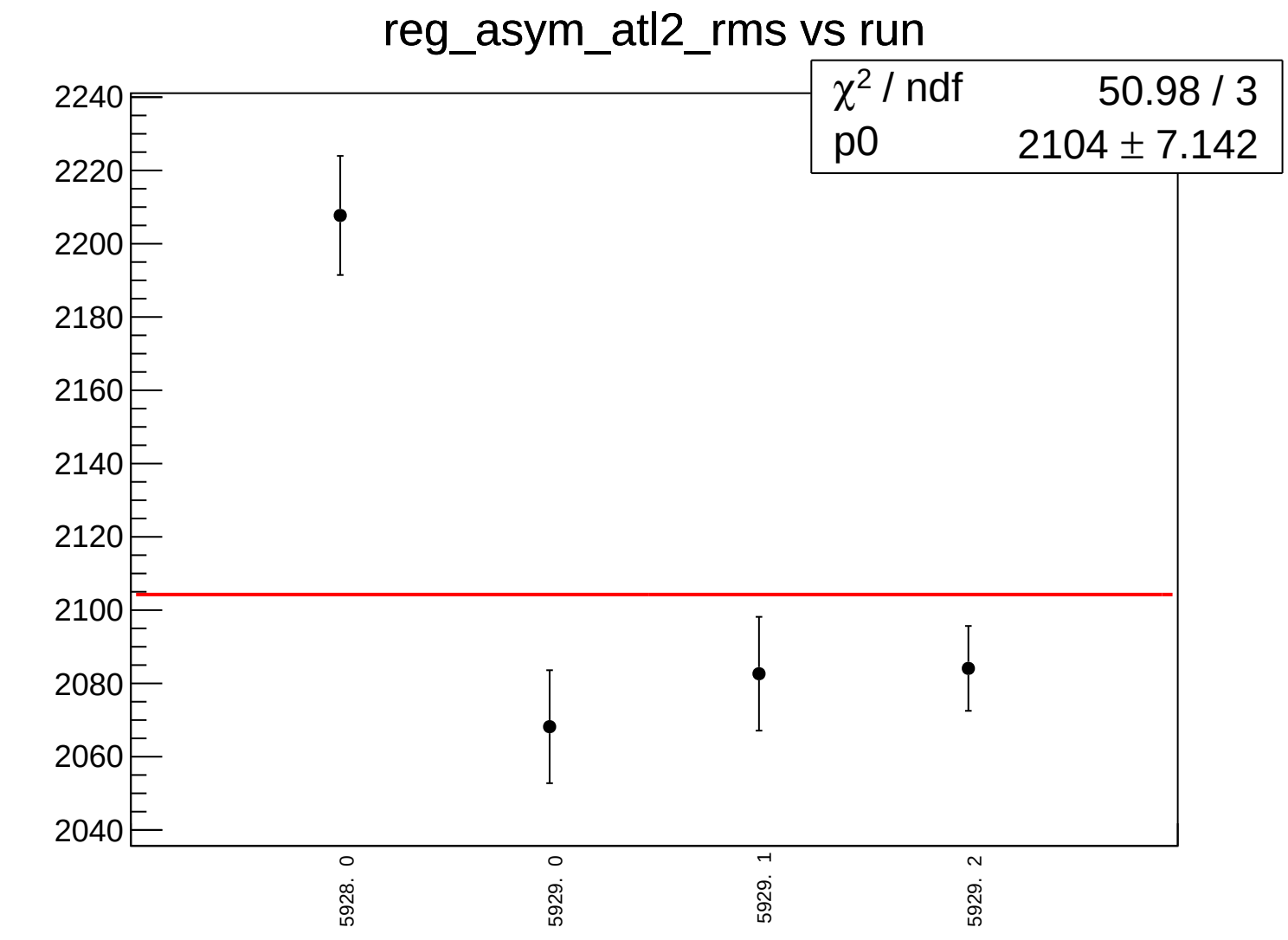

pull
Entries 4
Mean −4.617
Std Dev 6.974
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

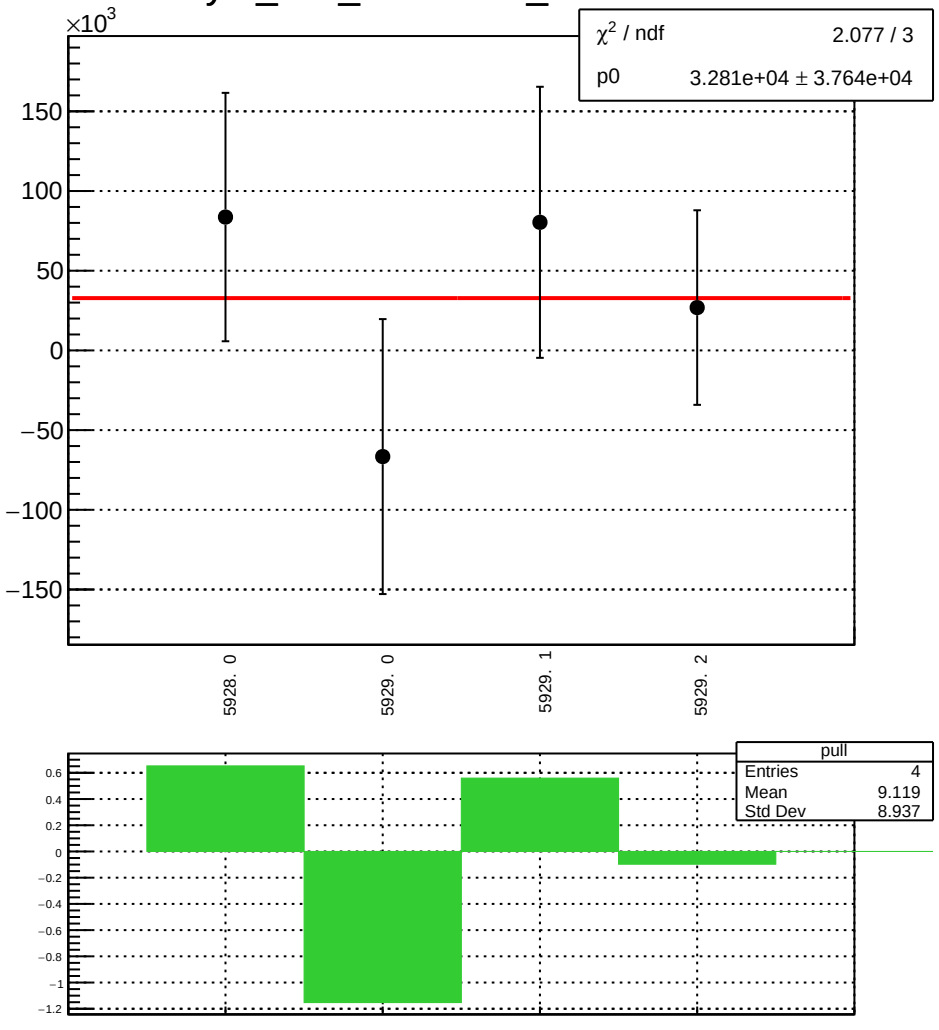

pull1D
Entries 4
Mean 0.07449
Std Dev 0.6815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

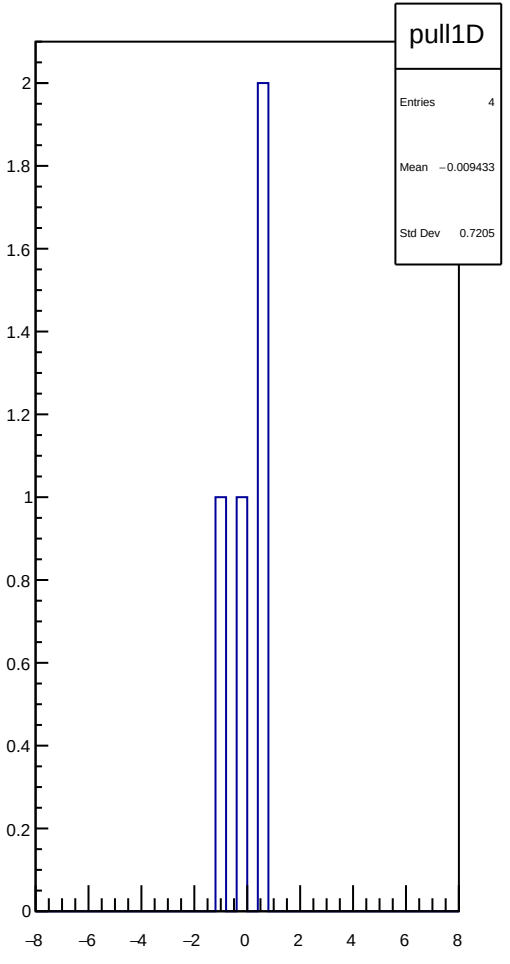

asym_atl1_rms vs run
χ² / ndf 3.894 / 3
p0 2984 ± 10.13
3020
3000
2980
2960
2940
2920
5928. 0
5929. 0
5929. 1
5929. 2

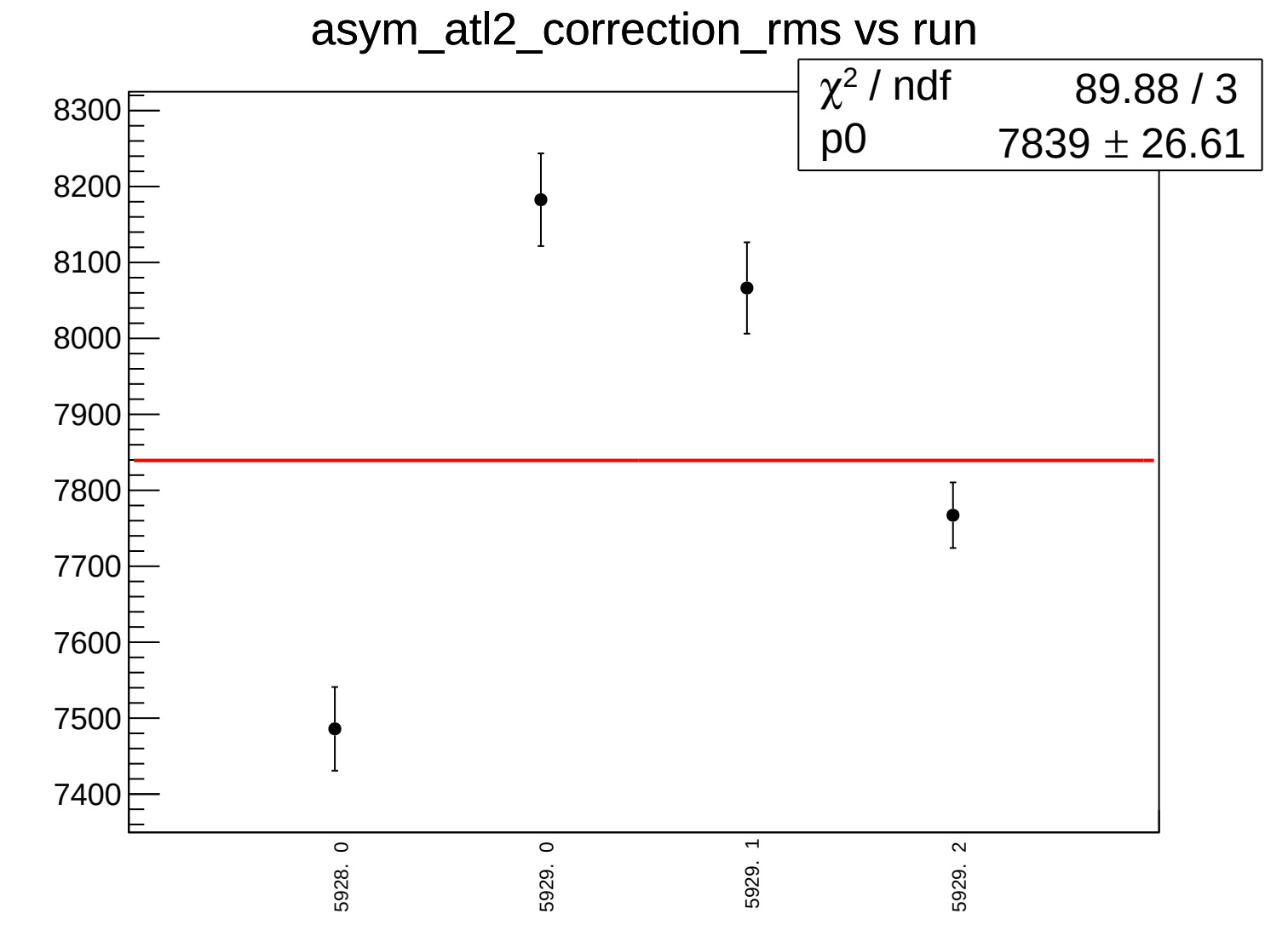

reg_asym_atl2_mean vs run
χ² / ndf 3.554 / 3
p0 −1959 ± 1.01e+04
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.634
Std Dev 8.614
1
0.5
0
−0.5
−1

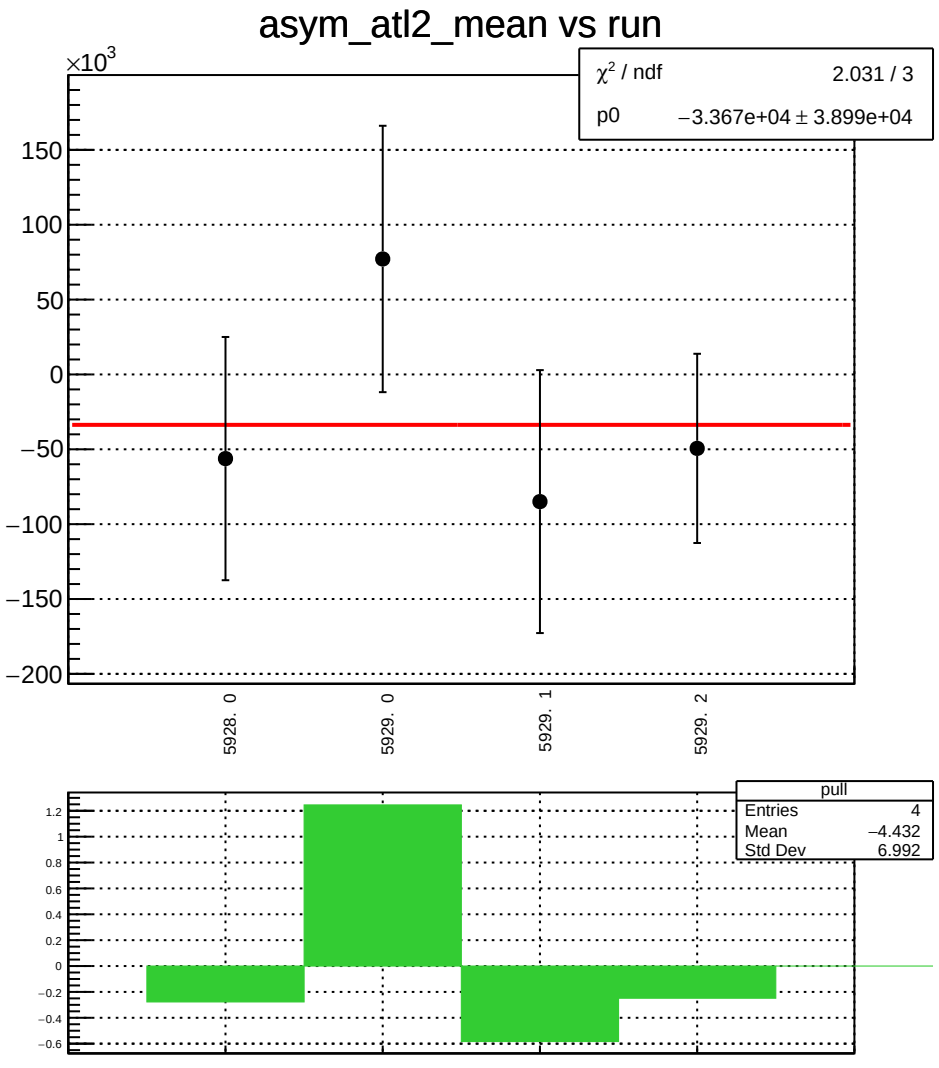

pull1D
Entries 4
Mean 0.1201
Std Dev 0.935
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

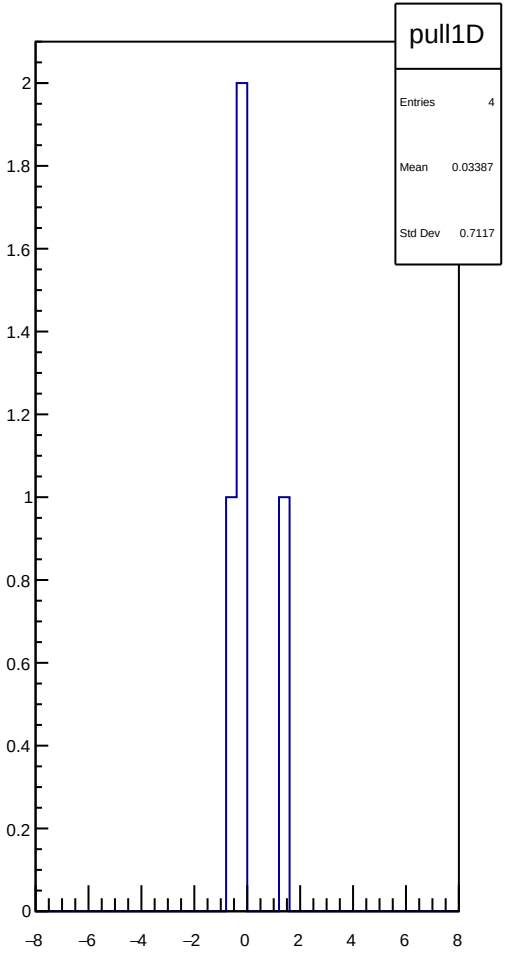

reg_asym_atl2_rms vs run
χ² / ndf 50.98 / 3
p0 2104 ± 7.142
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
5928. 0
5929. 0
5929. 1
5929. 2

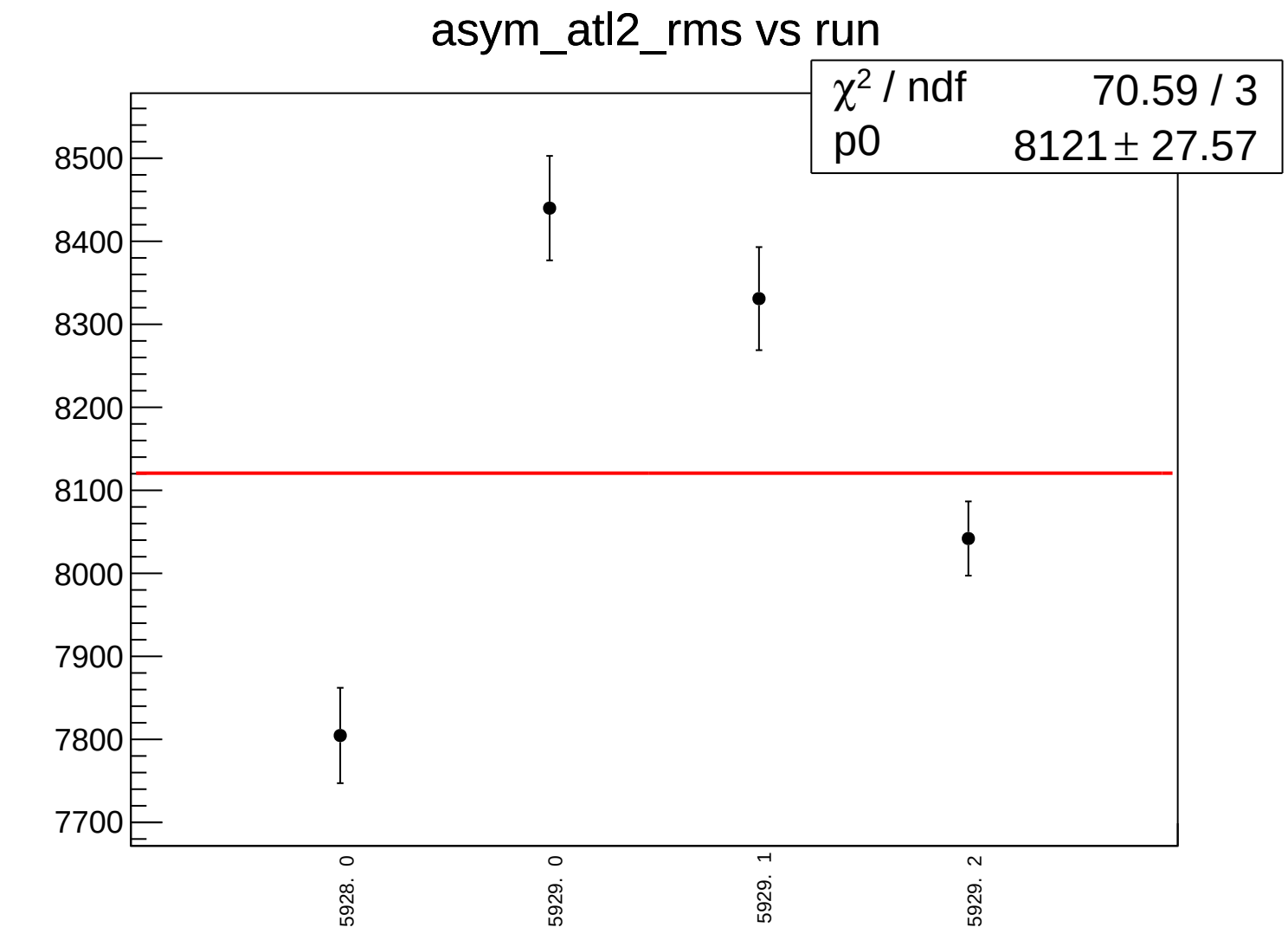

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 2.077 / 3
p0 3.281e+04 ± 3.764e+04
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.119
Std Dev 8.937
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

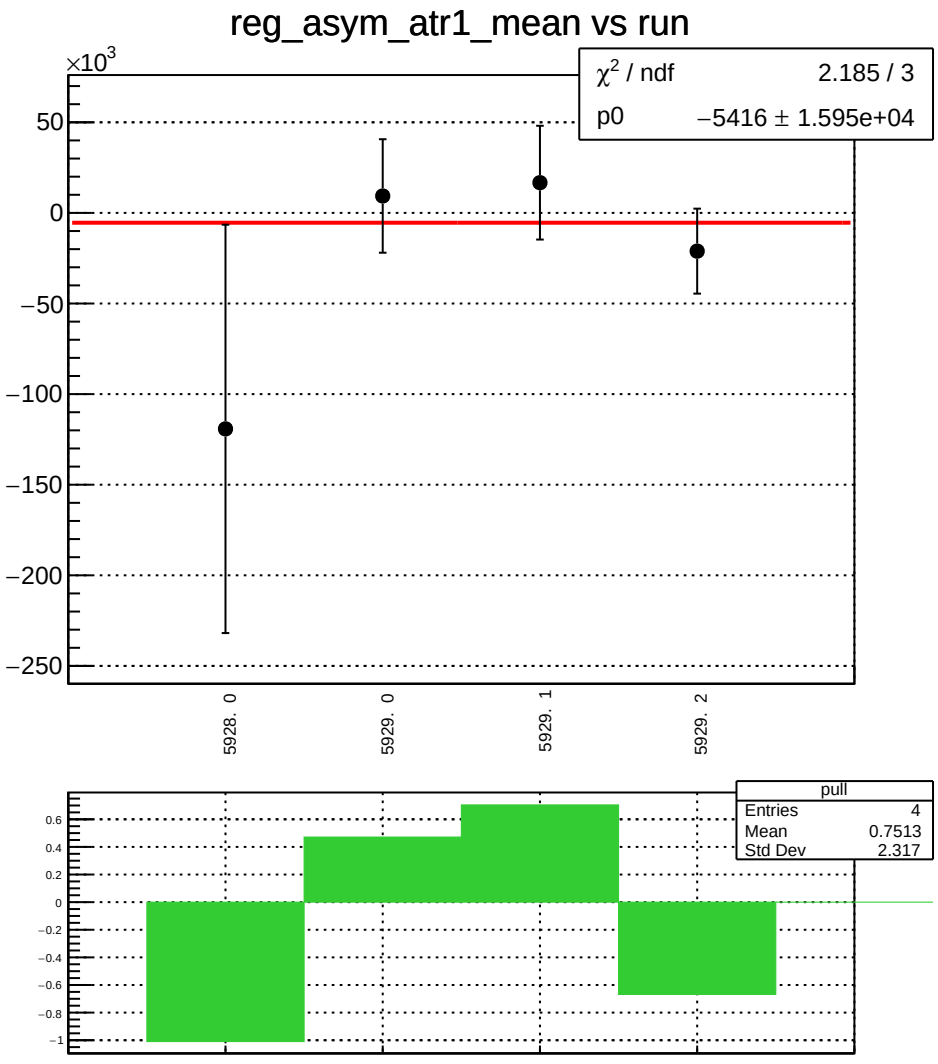

pull1D
Entries 4
Mean −0.009433
Std Dev 0.7205
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

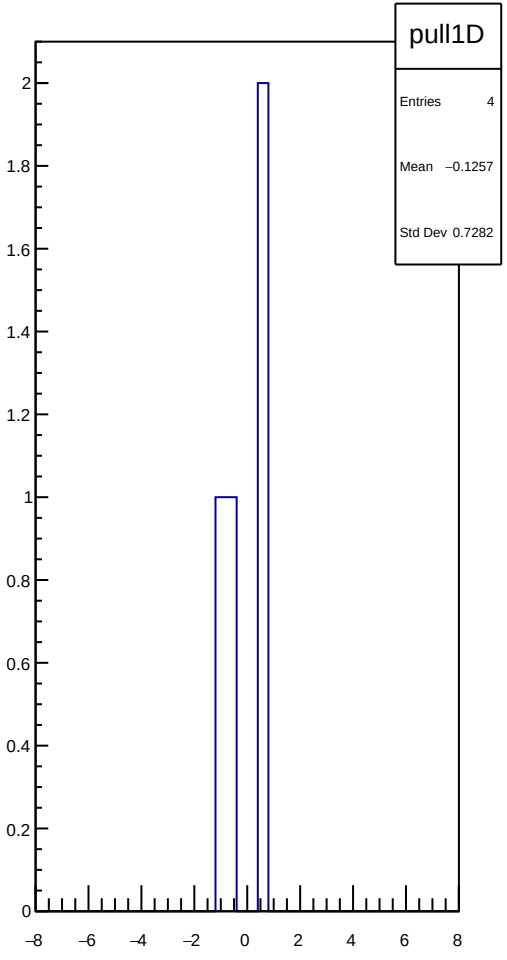

asym_atl2_correction_rms vs run
χ² / ndf 89.88 / 3
p0 7839 ± 26.61
8300
8200
8100
8000
7900
7800
7700
7600
7500
7400
5928. 0
5929. 0
5929. 1
5929. 2

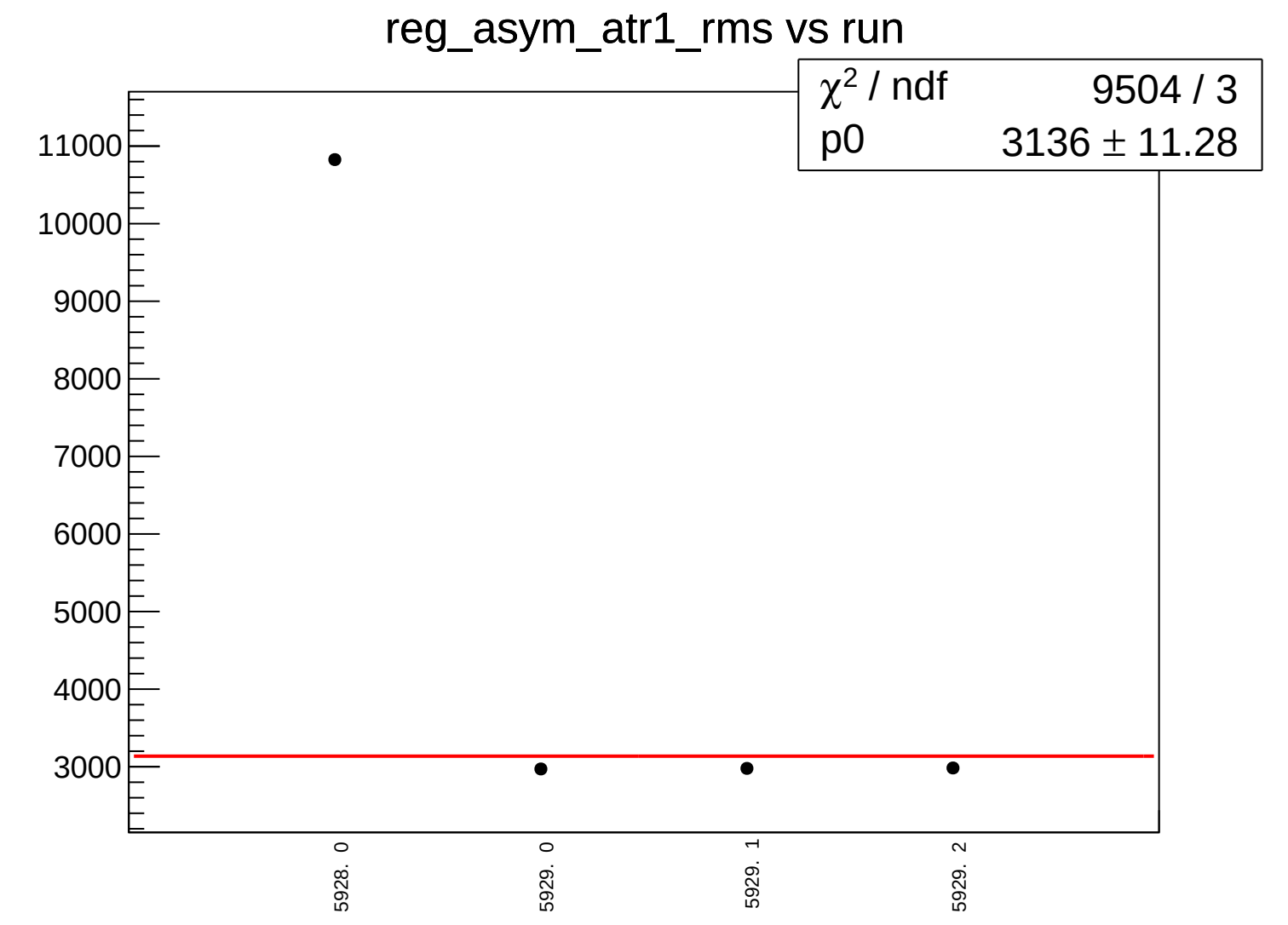

asym_atl2_mean vs run
×10^3
χ² / ndf 2.031 / 3
p0 −3.367e+04 ± 3.899e+04
150
100
50
0
−50
−100
−150
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.432
Std Dev 6.992
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

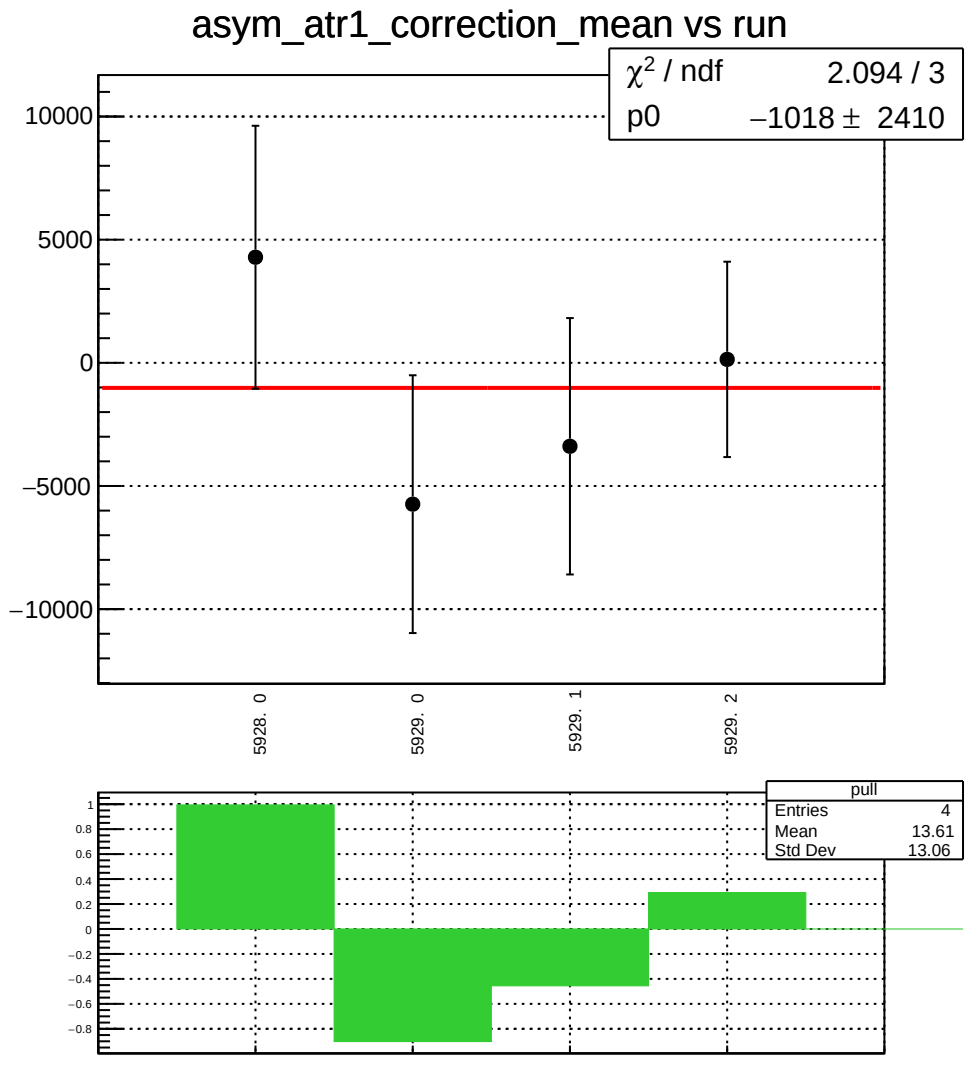

pull1D
Entries 4
Mean 0.03387
Std Dev 0.7117
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

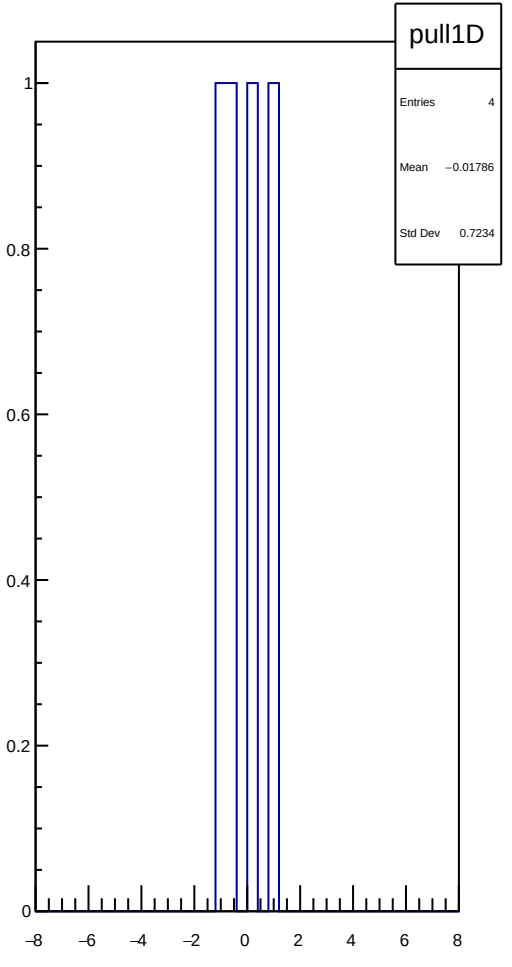

asym_atl2_rms vs run
χ² / ndf 70.59 / 3
p0 8121 ± 27.57
8500
8400
8300
8200
8100
8000
7900
7800
7700
5928. 0
5929. 0
5929. 1
5929. 2

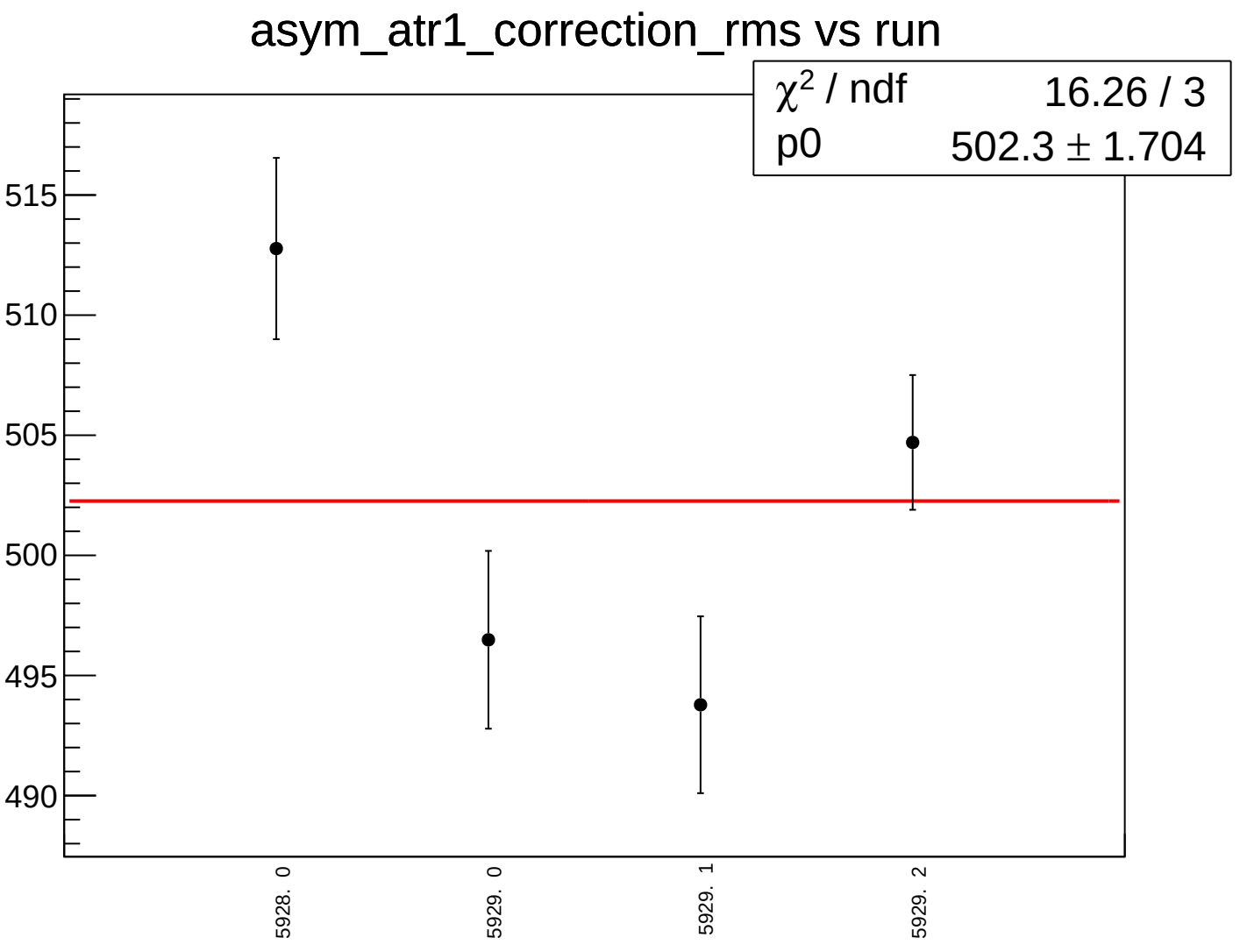

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 2.185 / 3
p0 −5416 ± 1.595e+04
50
0
−50
−100
−150
−200
−250
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.7513
Std Dev 2.317
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

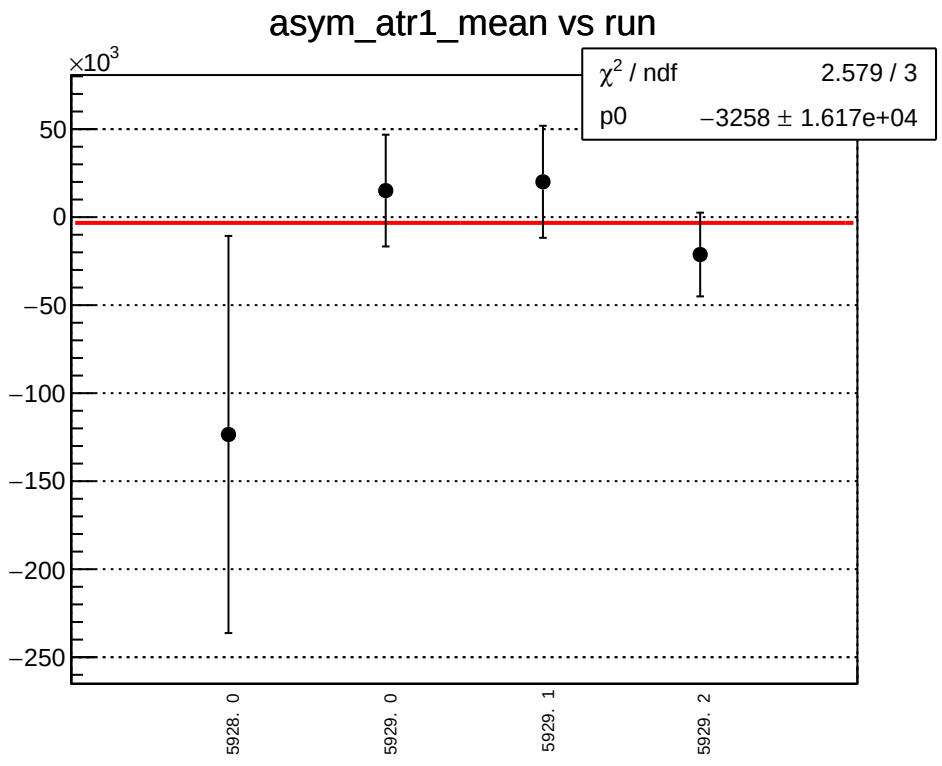

pull1D
Entries 4
Mean −0.1257
Std Dev 0.7282
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

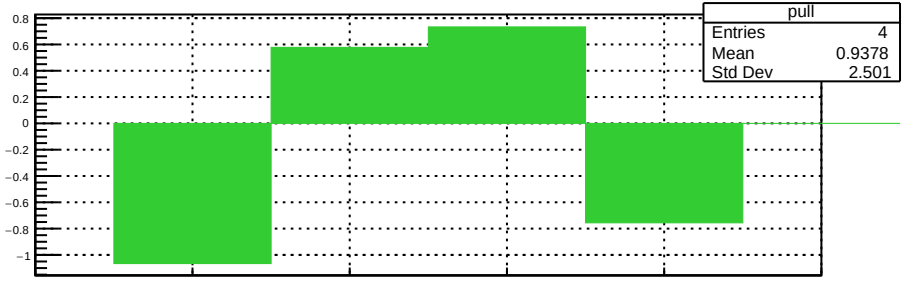

reg_asym_atr1_rms vs run
χ² / ndf 9504 / 3
p0 3136 ± 11.28
11000
10000
9000
8000
7000
6000
5000
4000
3000
5928. 0
5929. 0
5929. 1
5929. 2

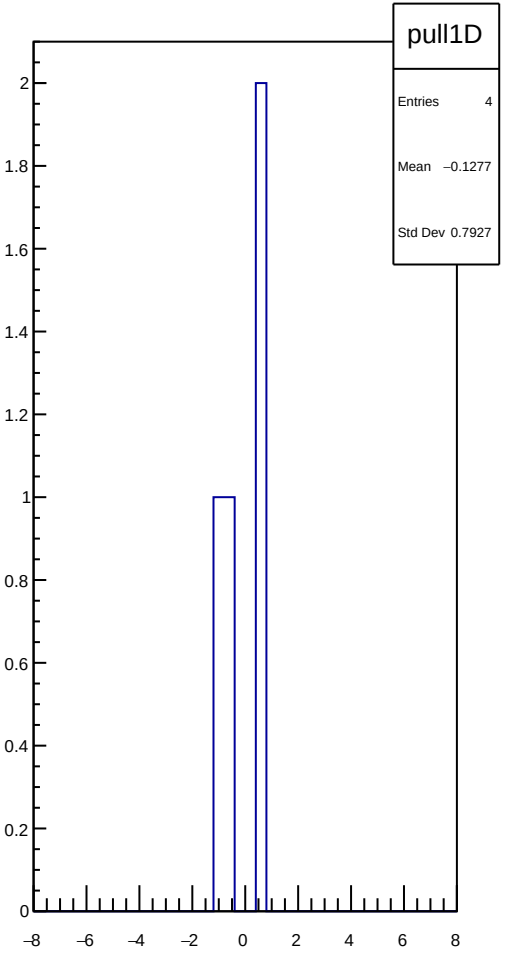

asym_atr1_correction_mean vs run
χ² / ndf 2.094 / 3
p0 −1018 ± 2410
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.61
Std Dev 13.06
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

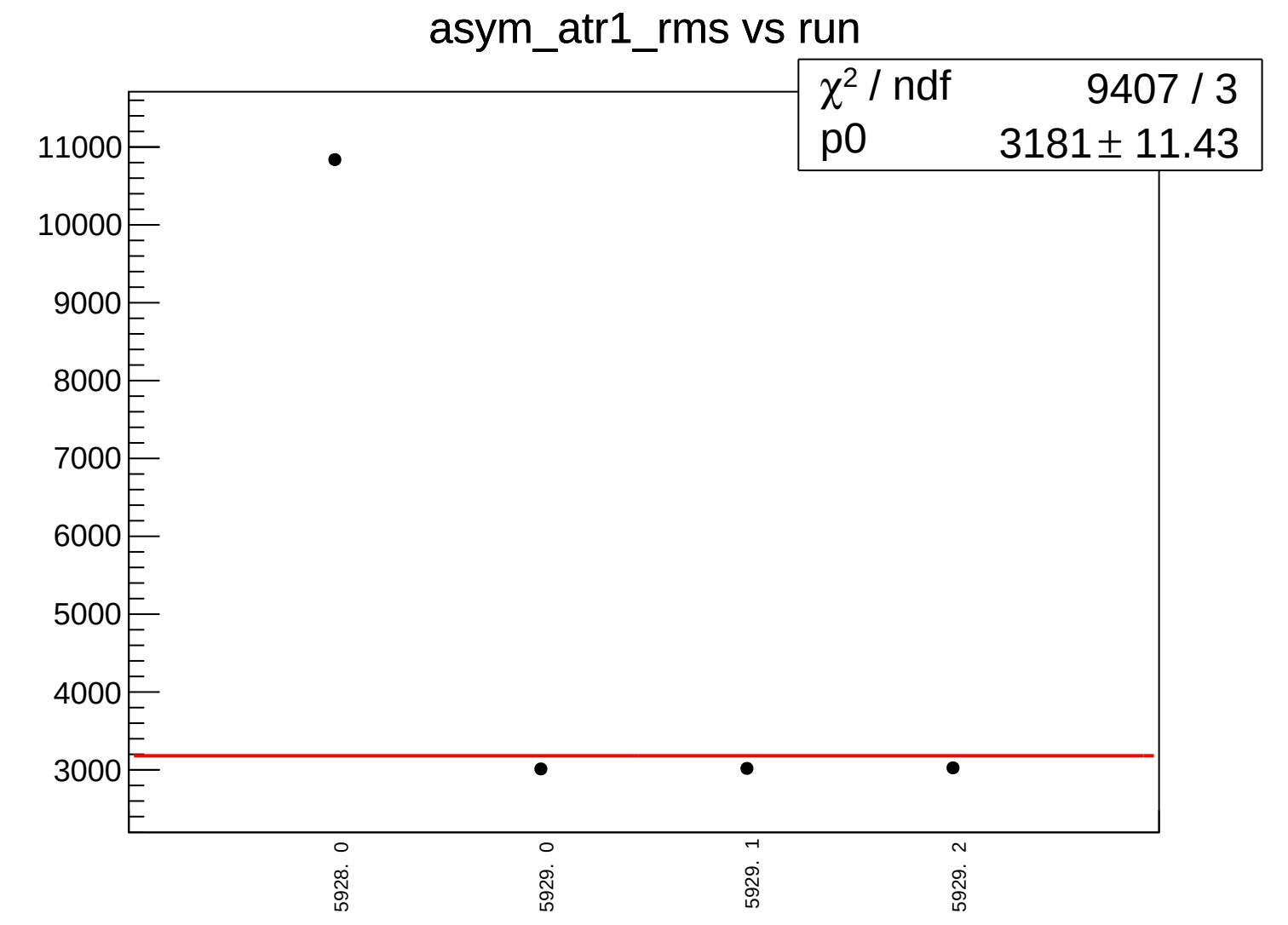

pull1D
Entries 4
Mean −0.01786
Std Dev 0.7234
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

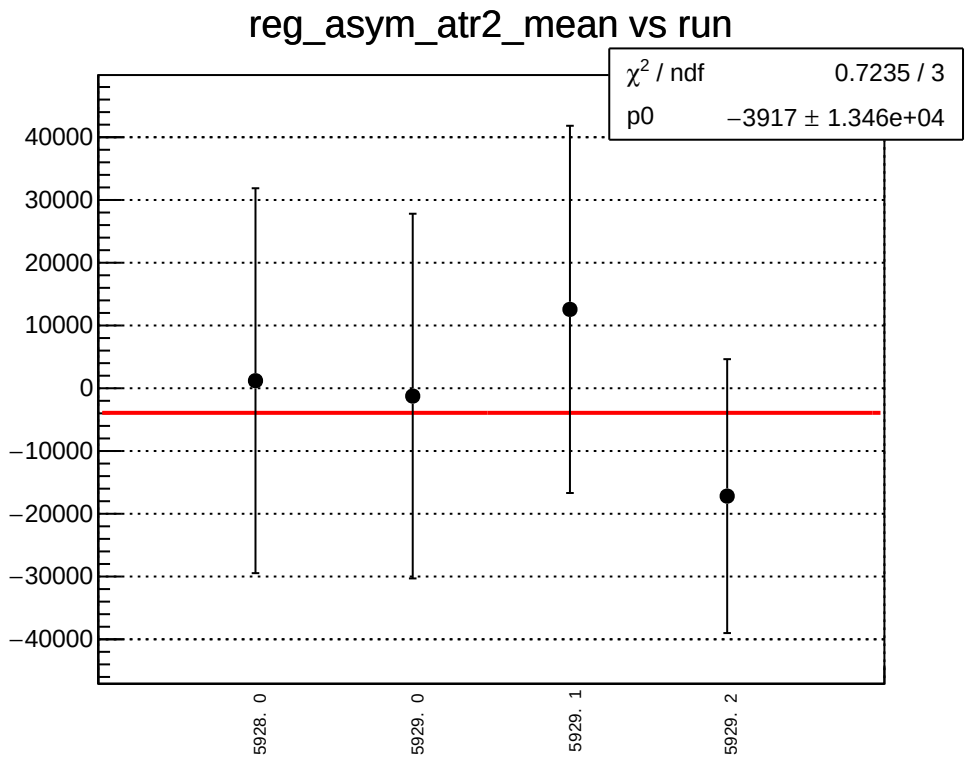

asym_atr1_correction_rms vs run
χ² / ndf 16.26 / 3
p0 502.3 ± 1.704
515
510
505
500
495
490
5928. 0
5929. 0
5929. 1
5929. 2

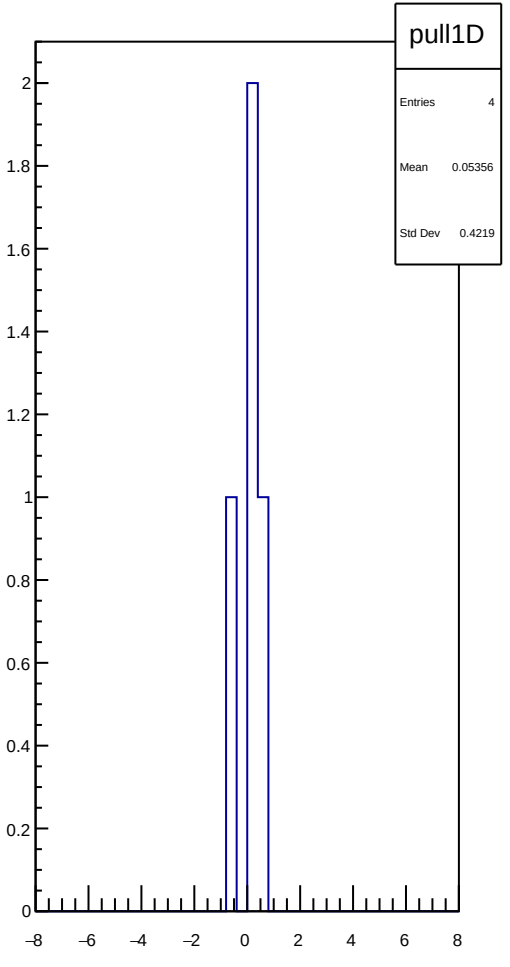

asym_atr1_mean vs run
×10^3
χ² / ndf 2.579 / 3
p0 −3258 ± 1.617e+04
50
0
−50
−100
−150
−200
−250
5928. 0
5929. 0
5929. 1
5929. 2

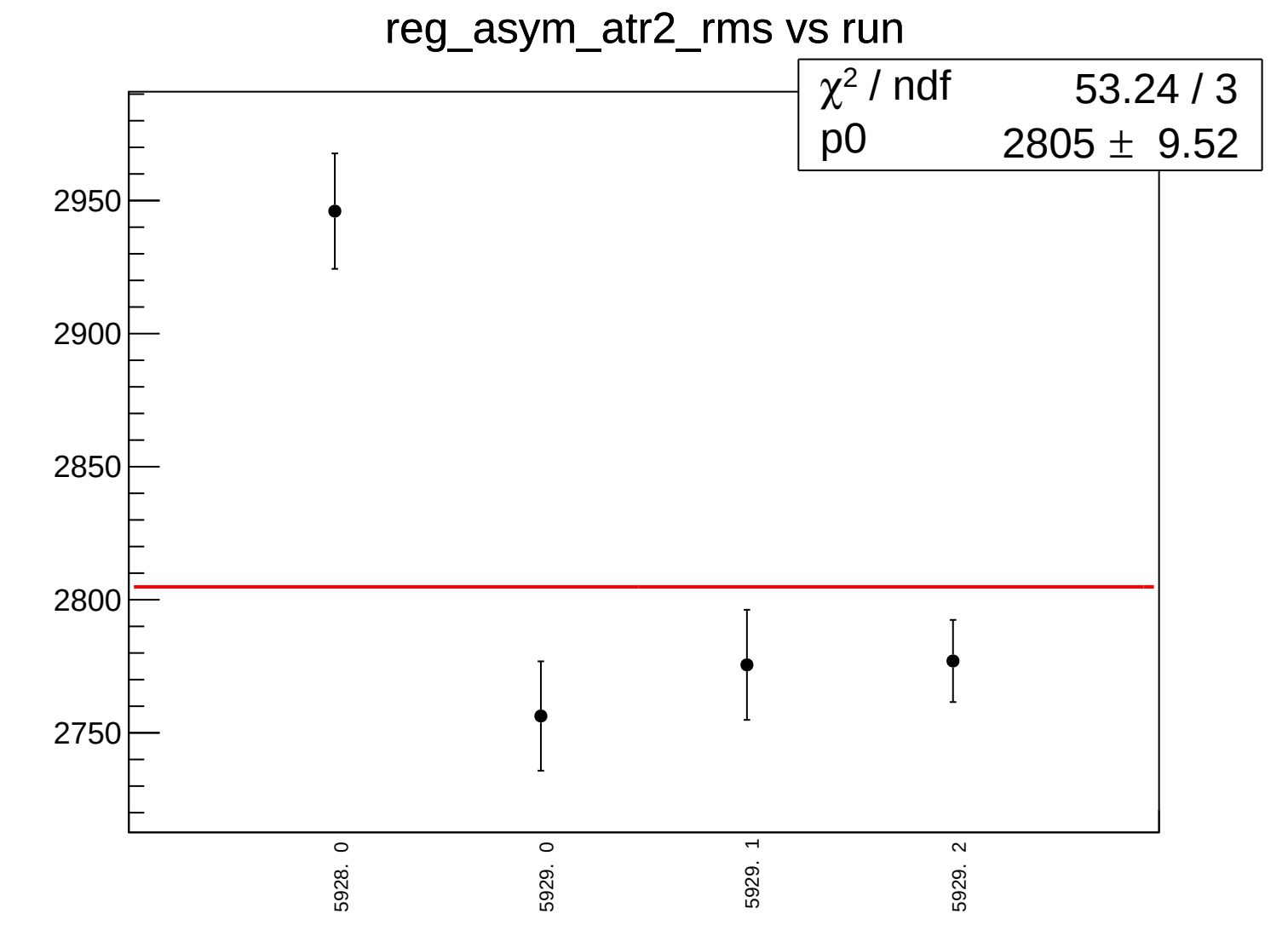

pull
Entries 4
Mean 0.9378
Std Dev 2.501
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

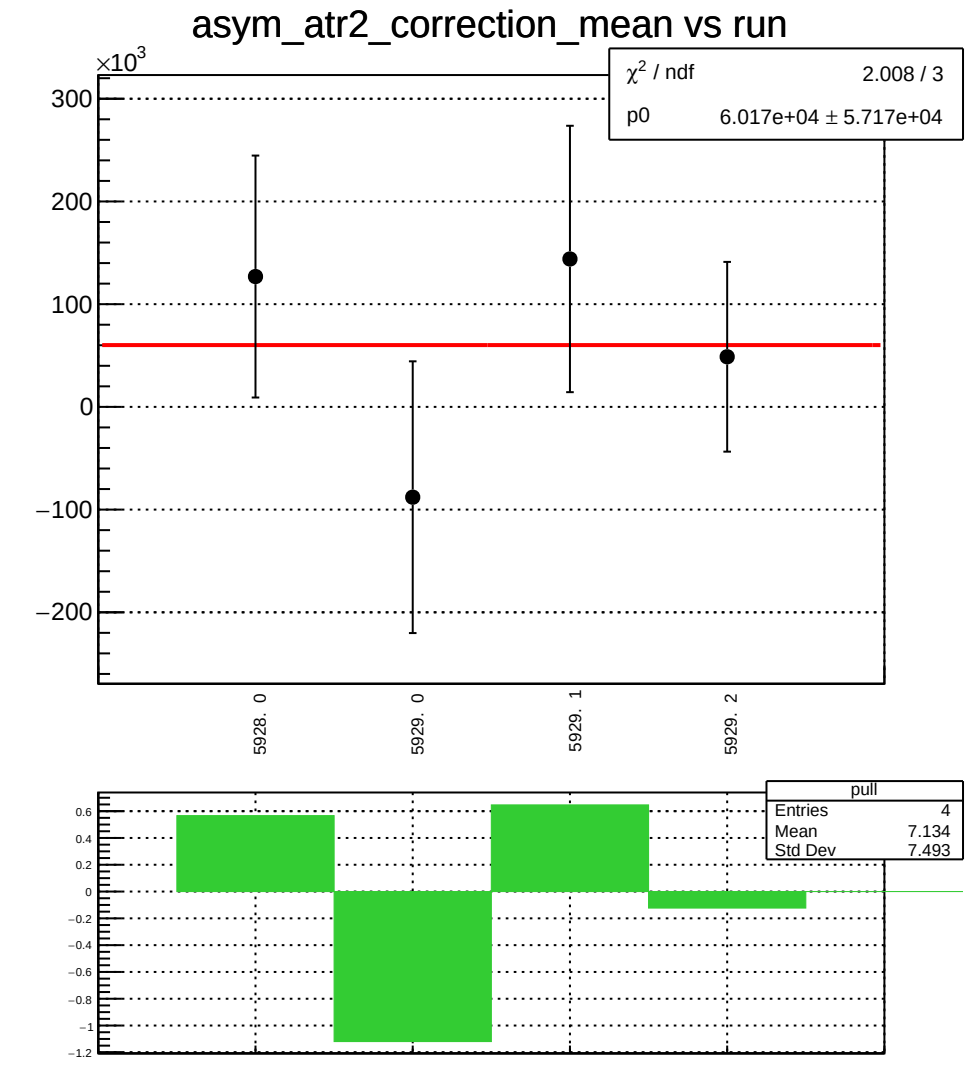

pull1D
Entries 4
Mean −0.1277
Std Dev 0.7927
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

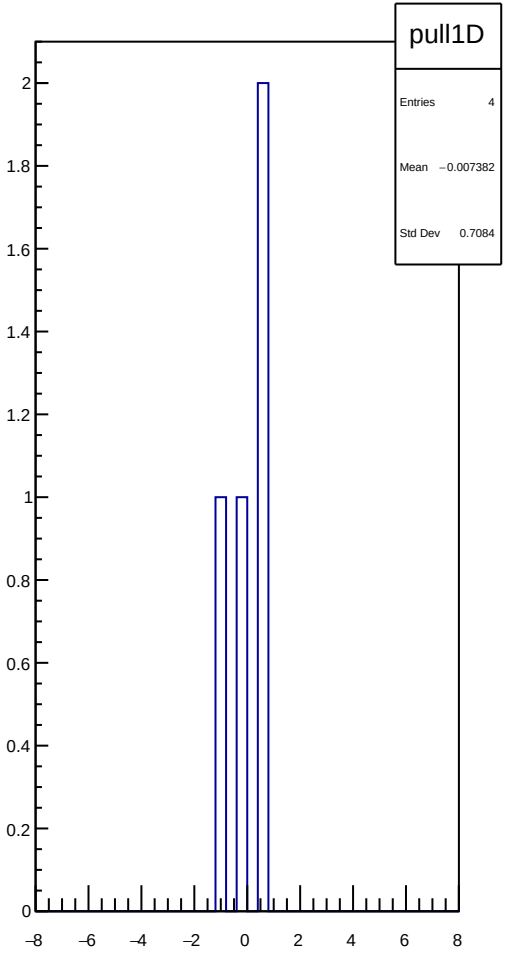

asym_atr1_rms vs run
χ² / ndf 9407 / 3
p0 3181 ± 11.43
11000
10000
9000
8000
7000
6000
5000
4000
3000
5928. 0
5929. 0
5929. 1
5929. 2

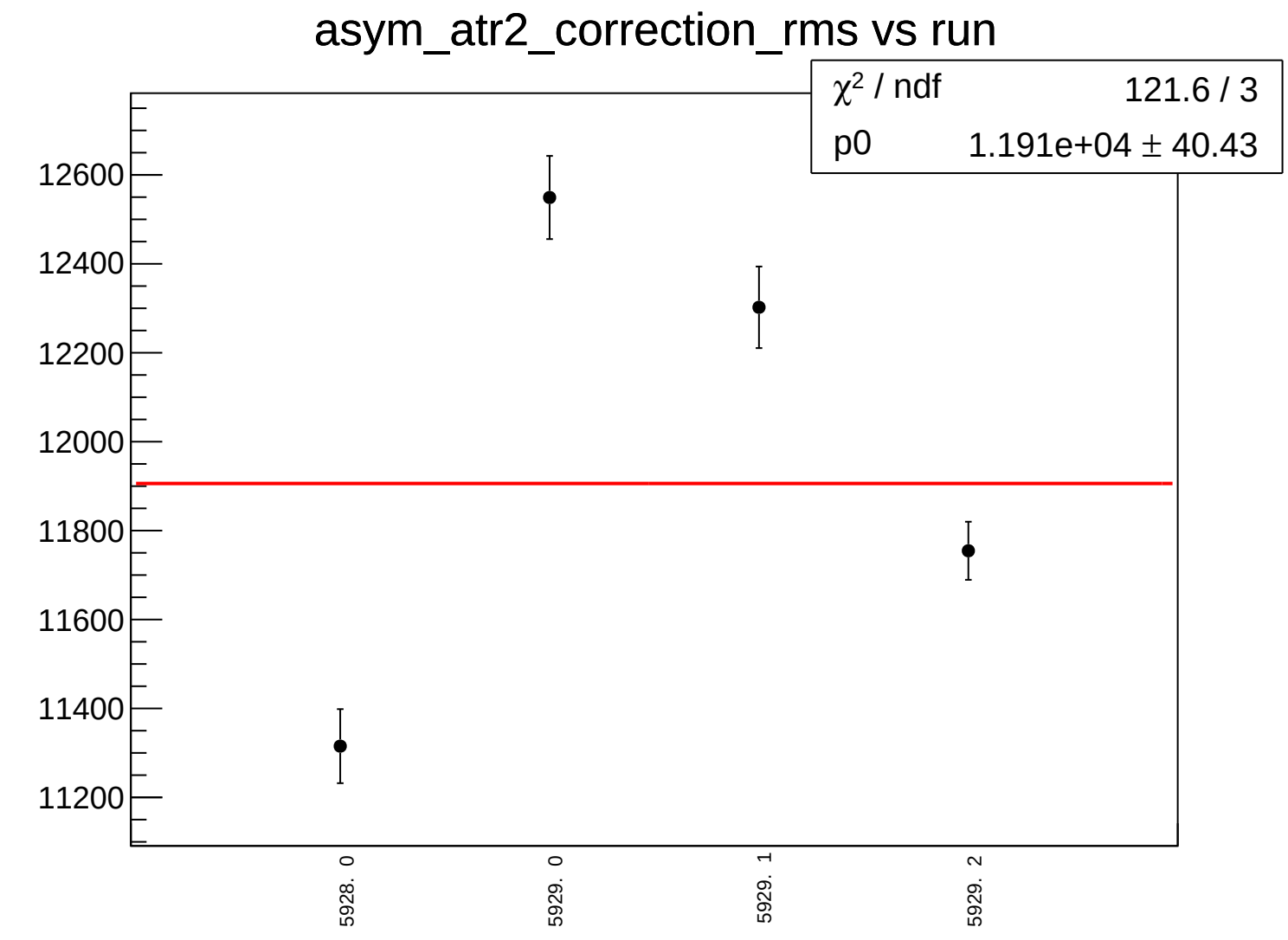

reg_asym_atr2_mean vs run
χ² / ndf 0.7235 / 3
p0 −3917 ± 1.346e+04
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.327
Std Dev 4.753
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

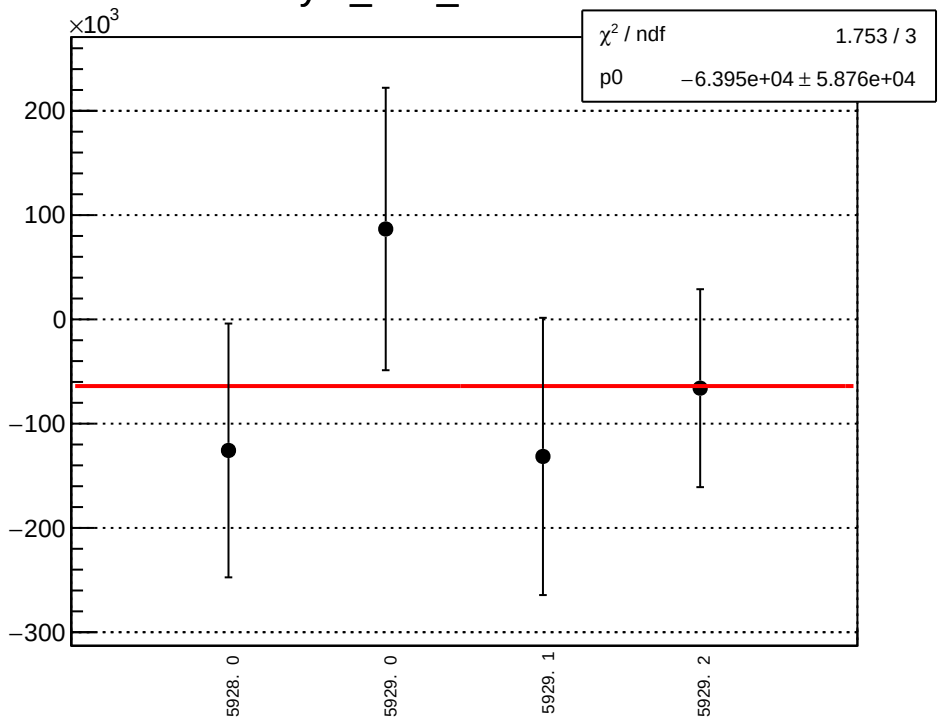

pull1D
Entries 4
Mean 0.05356
Std Dev 0.4219
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

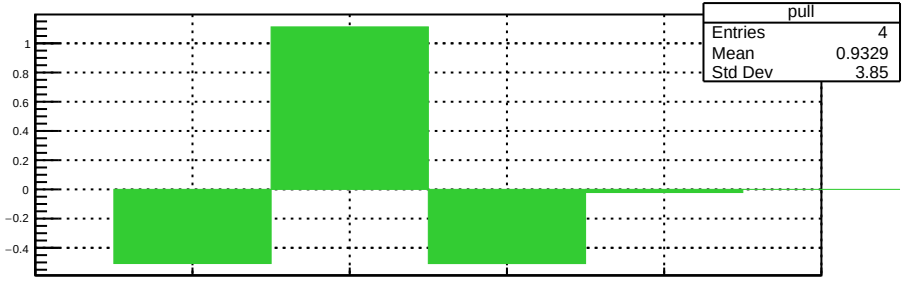

reg_asym_atr2_rms vs run
χ² / ndf 53.24 / 3
p0 2805 ± 9.52
2950
2900
2850
2800
2750
5928. 0
5929. 0
5929. 1
5929. 2

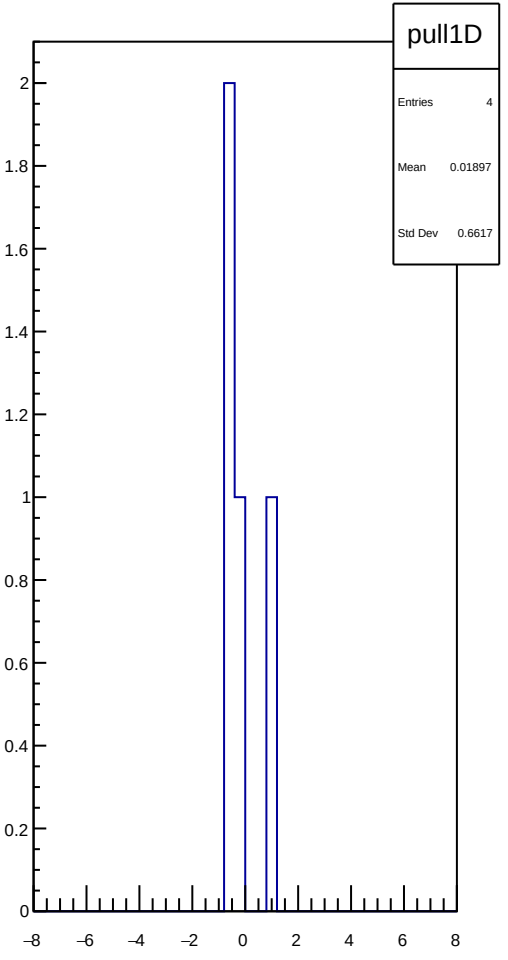

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 2.008 / 3
p0 6.017e+04 ± 5.717e+04
300
200
100
0
−100
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.134
Std Dev 7.493
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

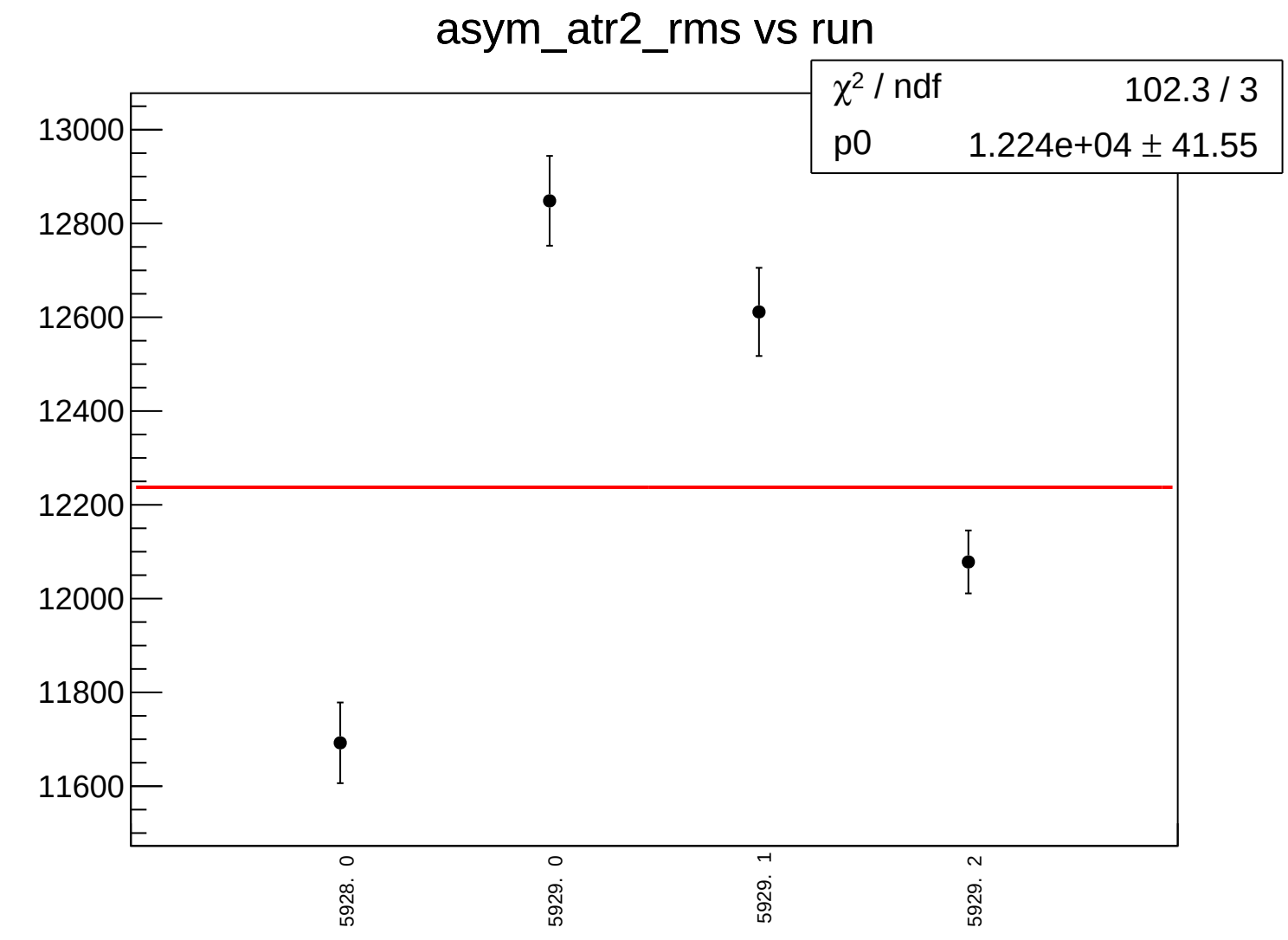

pull1D
Entries 4
Mean −0.007382
Std Dev 0.7084
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

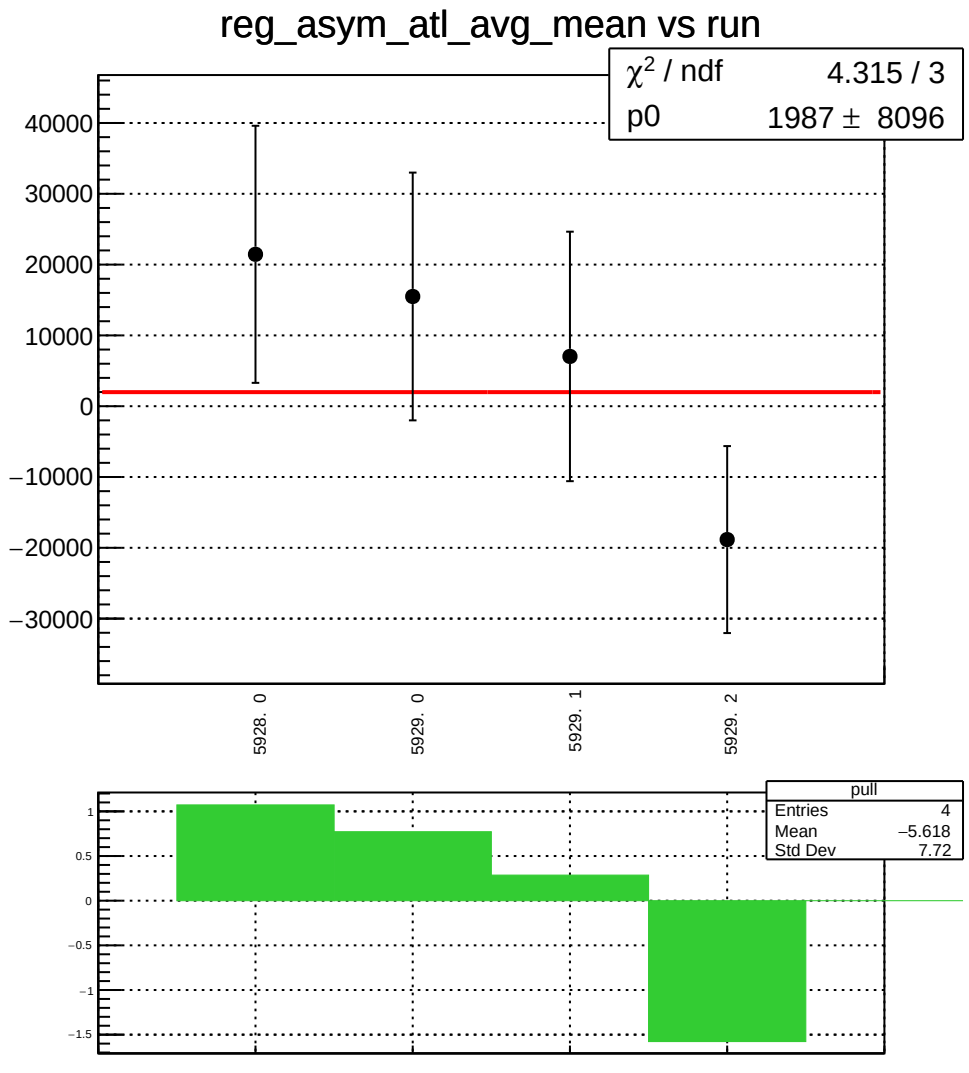

asym_atr2_correction_rms vs run
χ² / ndf 121.6 / 3
p0 1.191e+04 ± 40.43
12600
12400
12200
12000
11800
11600
11400
11200
5928. 0
5929. 0
5929. 1
5929. 2

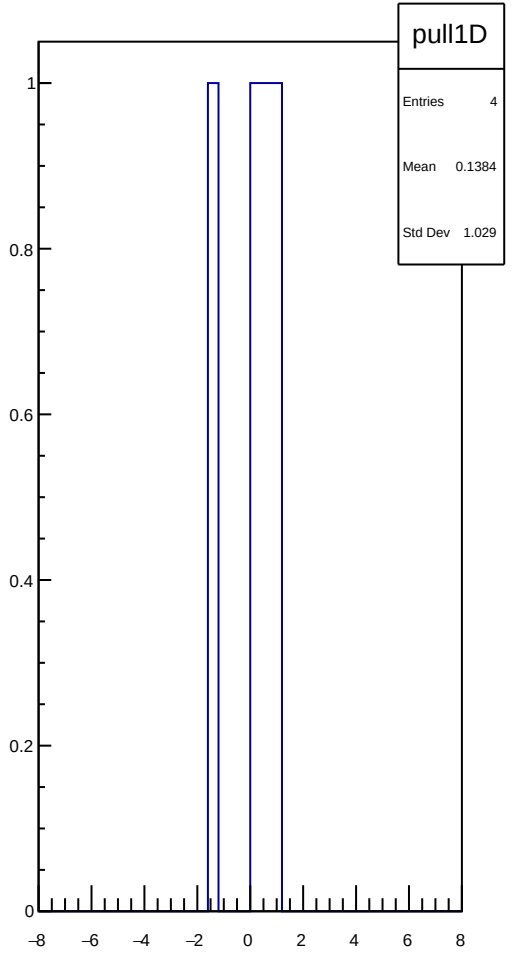

asym_atr2_mean vs run
×10^3
χ² / ndf 1.753 / 3
p0 −6.395e+04 ± 5.876e+04
200
100
0
−100
−200
−300
5928. 0
5929. 0
5929. 1
5929. 2

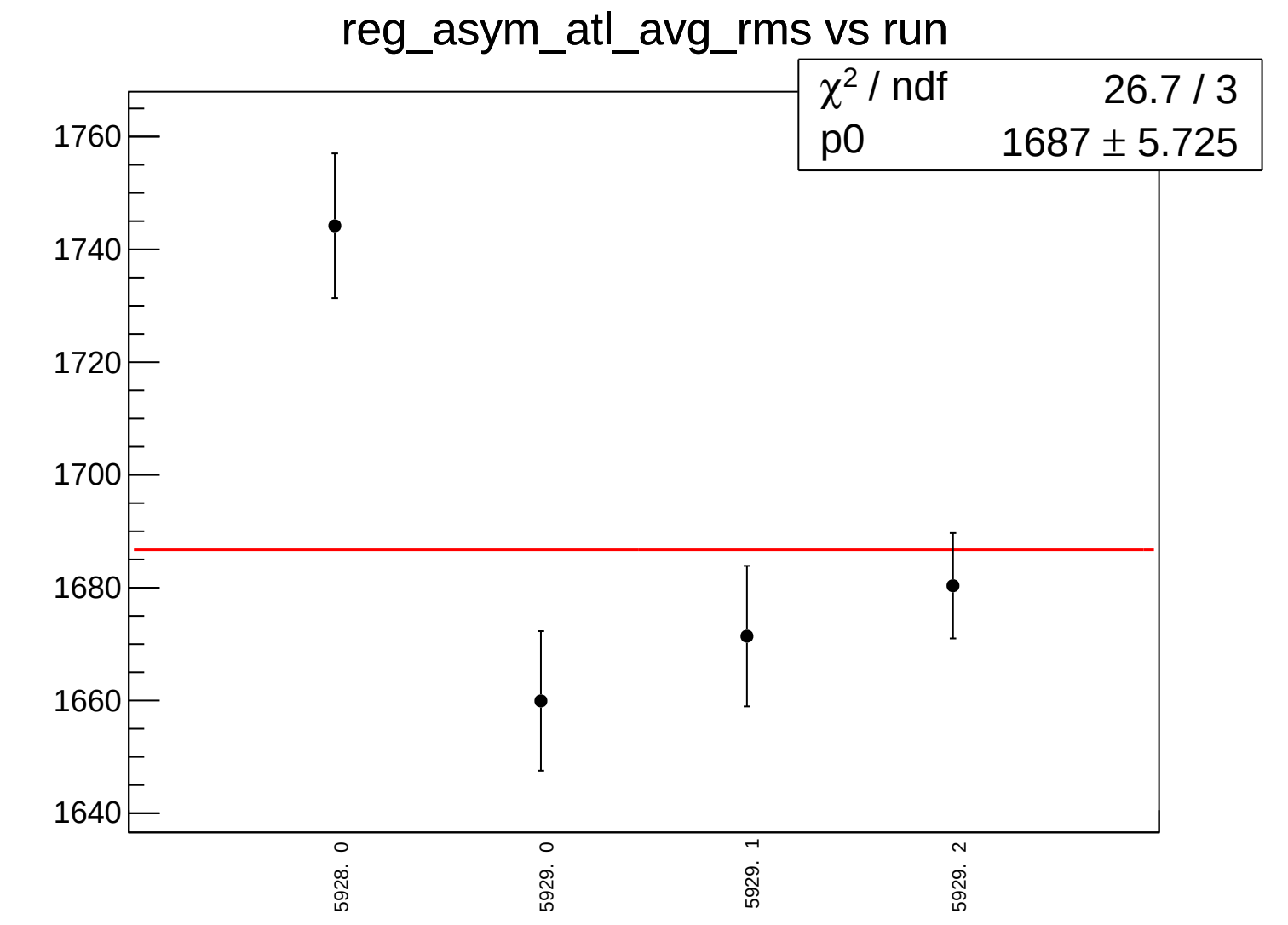

pull
Entries 4
Mean 0.9329
Std Dev 3.85
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

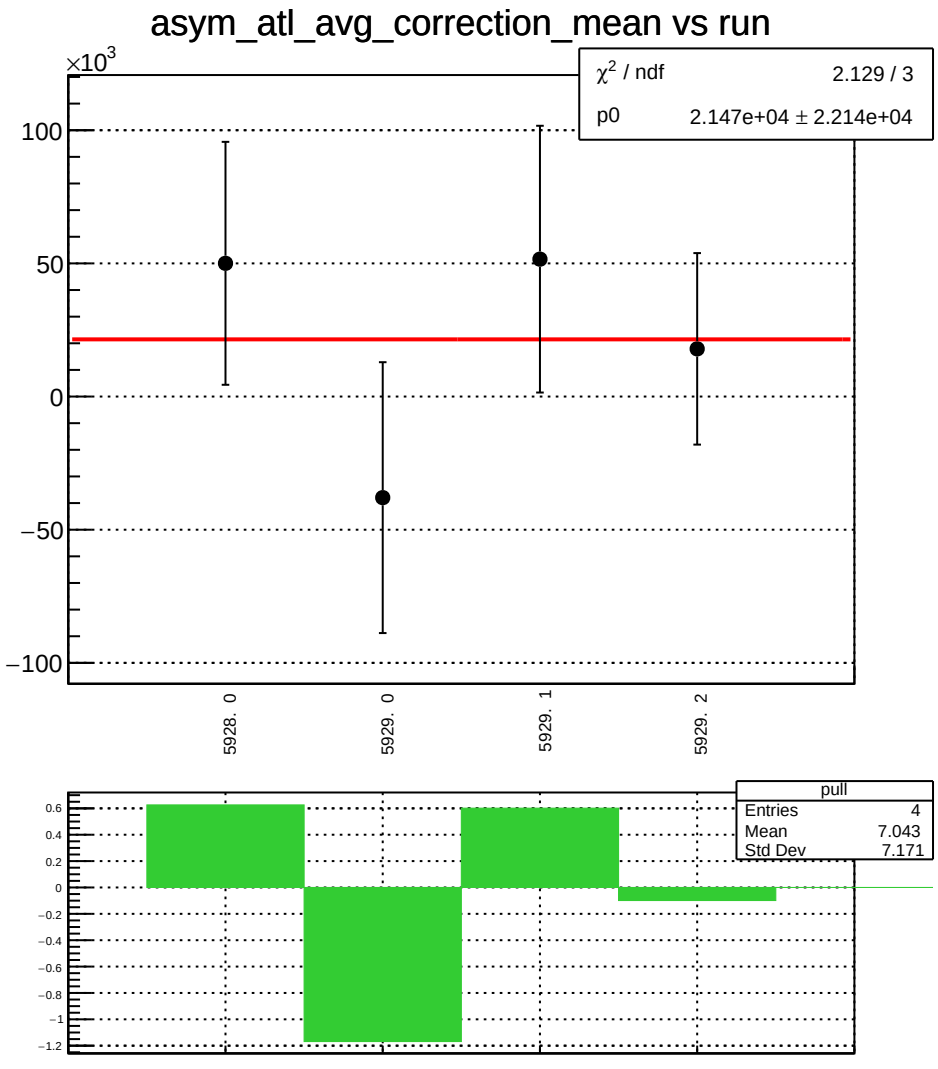

pull1D
Entries 4
Mean 0.01897
Std Dev 0.6617
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

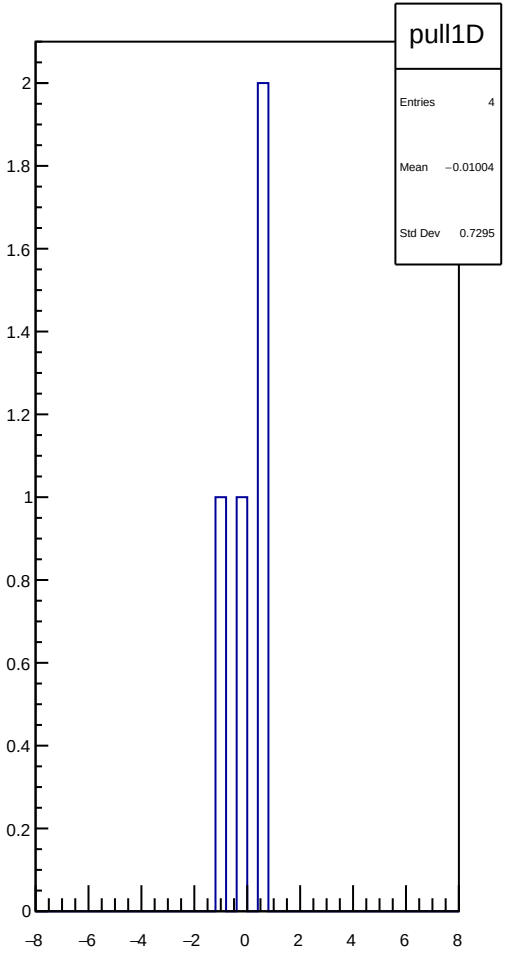

asym_atr2_rms vs run
χ² / ndf 102.3 / 3
p0 1.224e+04 ± 41.55
13000
12800
12600
12400
12200
12000
11800
11600
5928. 0
5929. 0
5929. 1
5929. 2

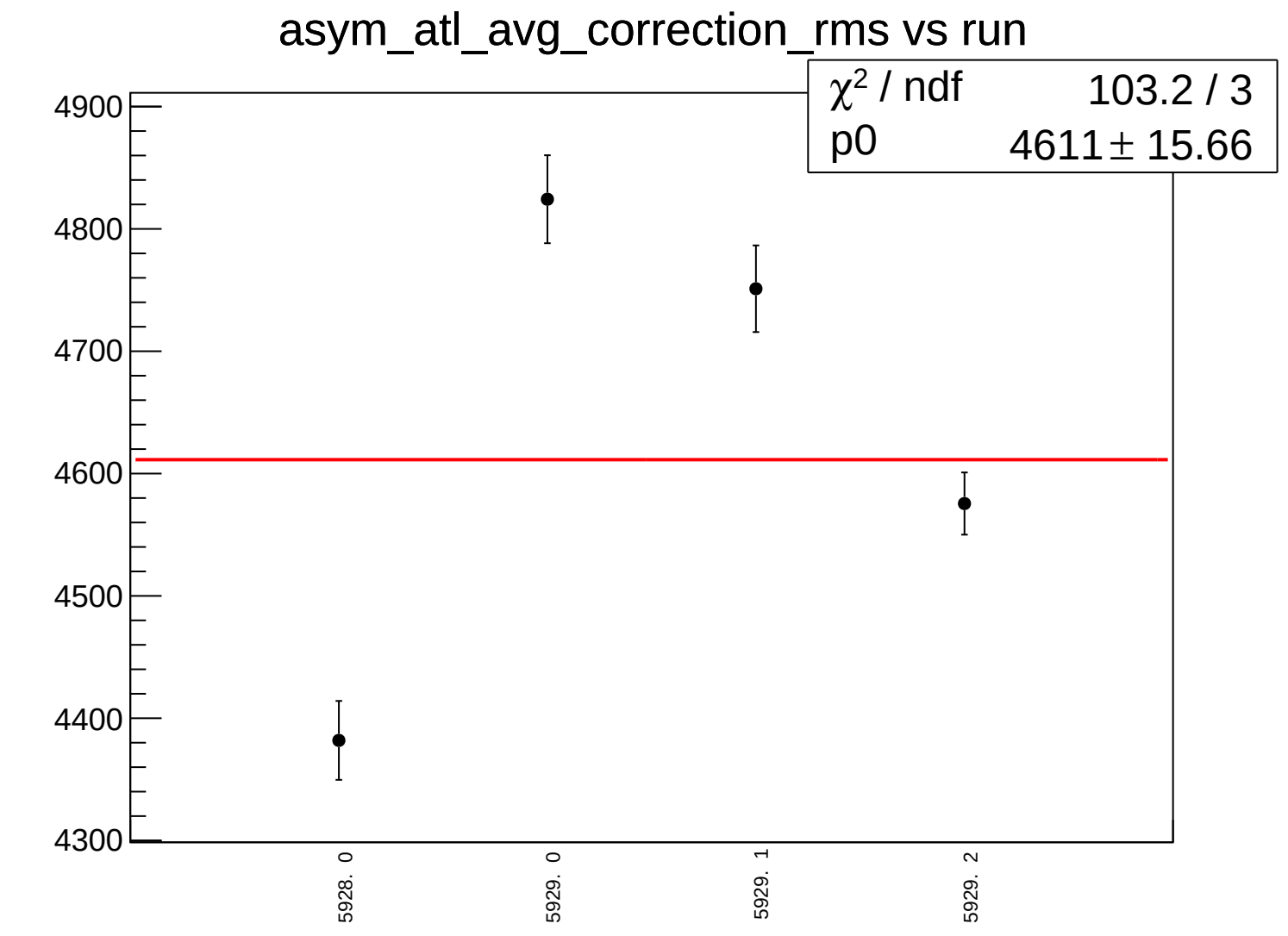

reg_asym_atl_avg_mean vs run
χ² / ndf 4.315 / 3
p0 1987 ± 8096
40000
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.618
Std Dev 7.72
1
0.5
0
−0.5
−1
−1.5

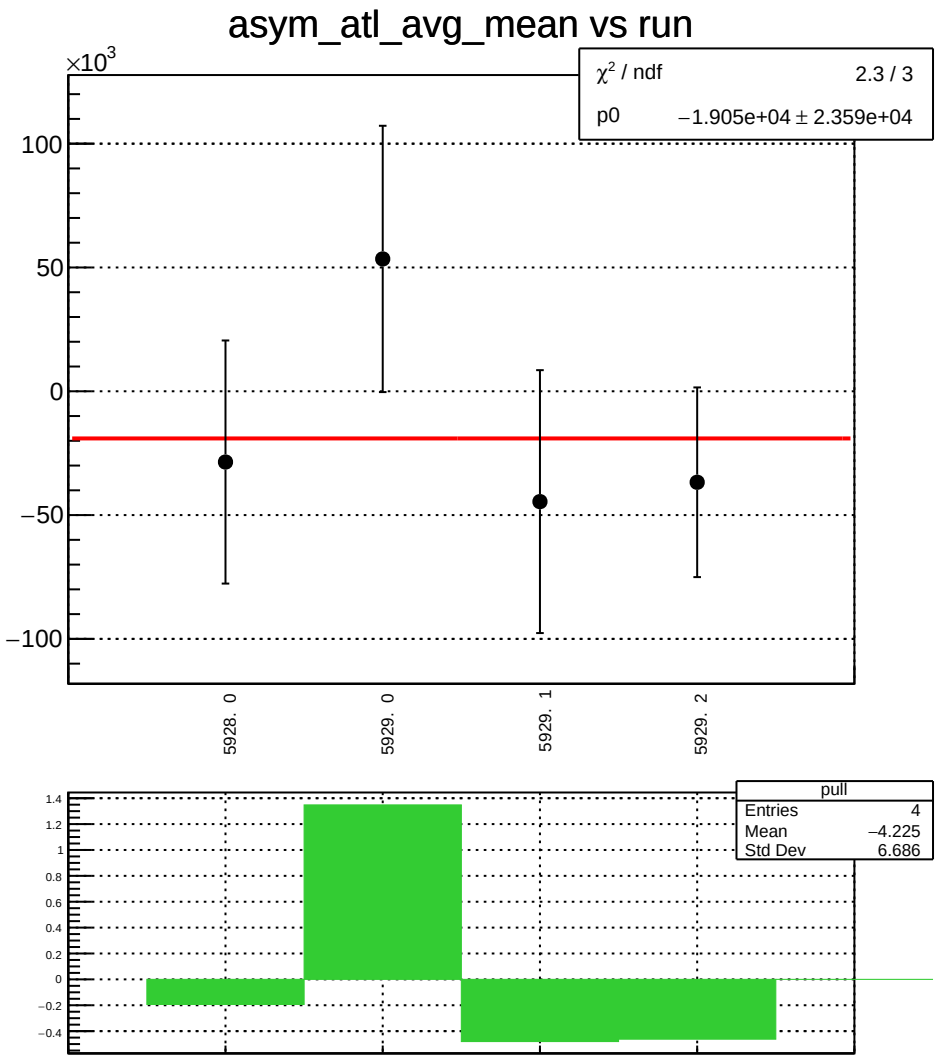

pull1D
Entries 4
Mean 0.1384
Std Dev 1.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

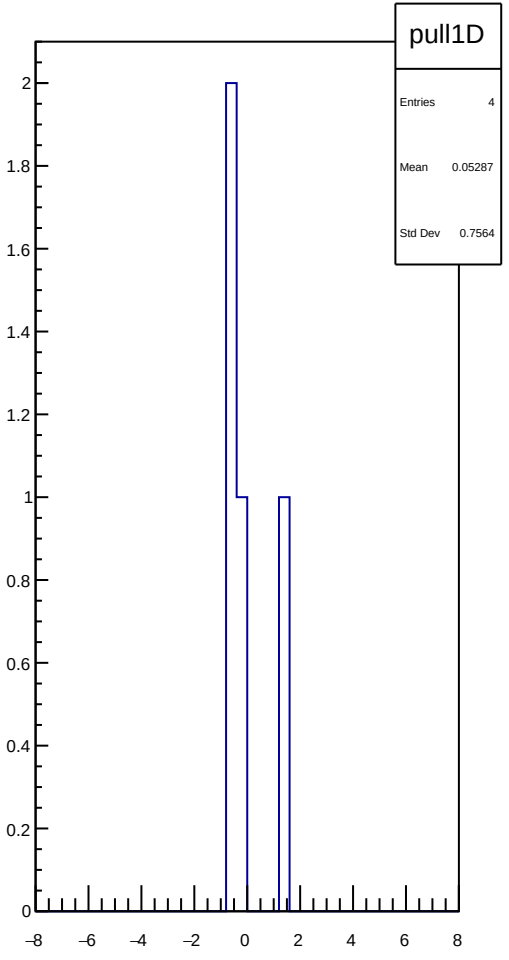

reg_asym_atl_avg_rms vs run
χ² / ndf 26.7 / 3
p0 1687 ± 5.725
1760
1740
1720
1700
1680
1660
1640
5928. 0
5929. 0
5929. 1
5929. 2

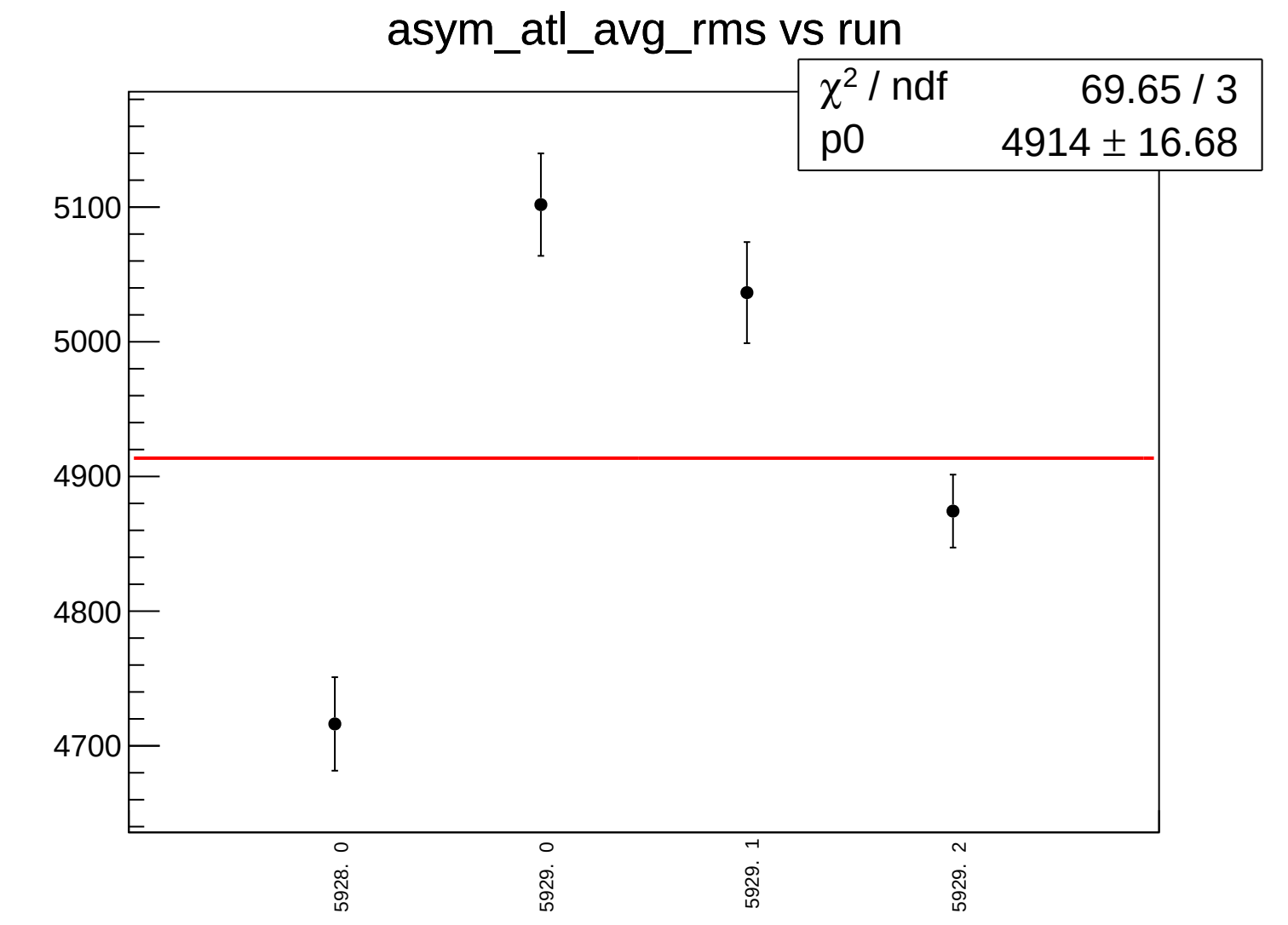

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 2.129 / 3
p0 2.147e+04 ± 2.214e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.043
Std Dev 7.171
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

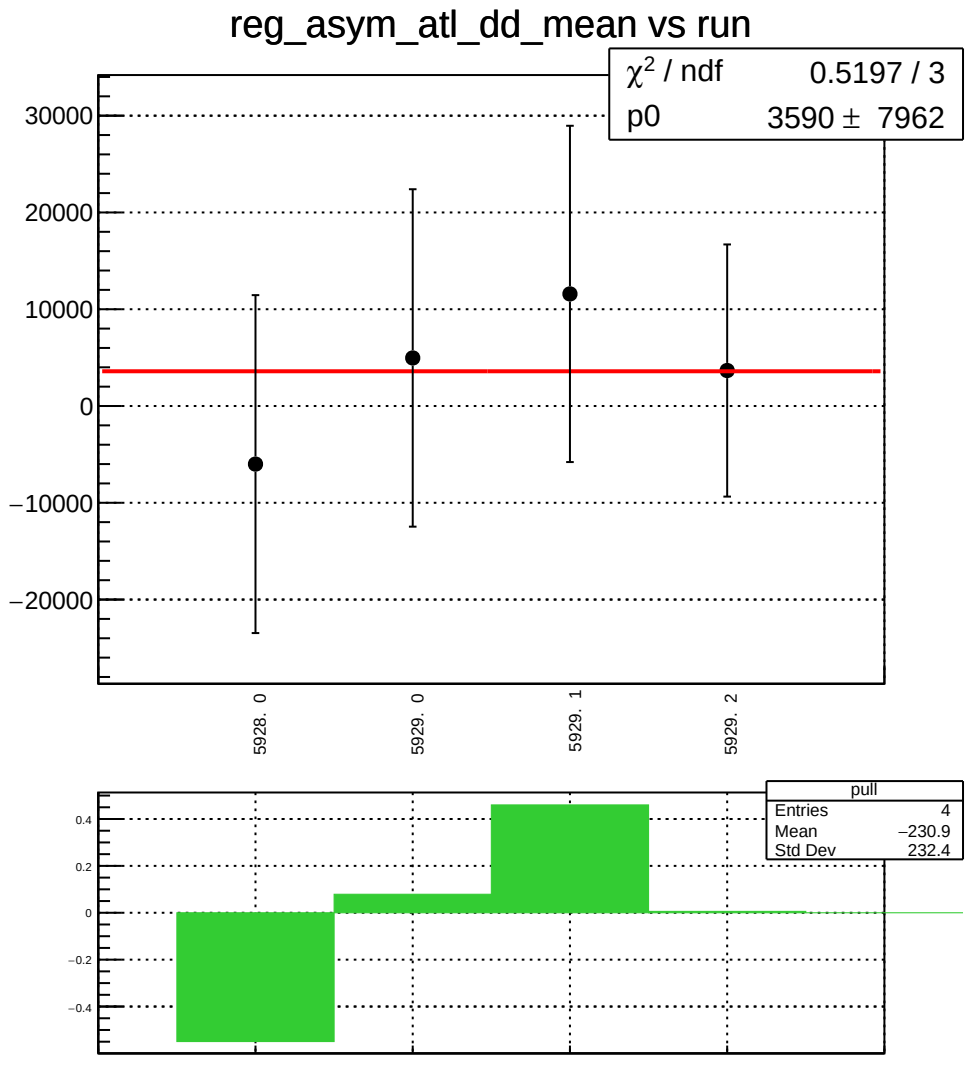

pull1D
Entries 4
Mean −0.01004
Std Dev 0.7295
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

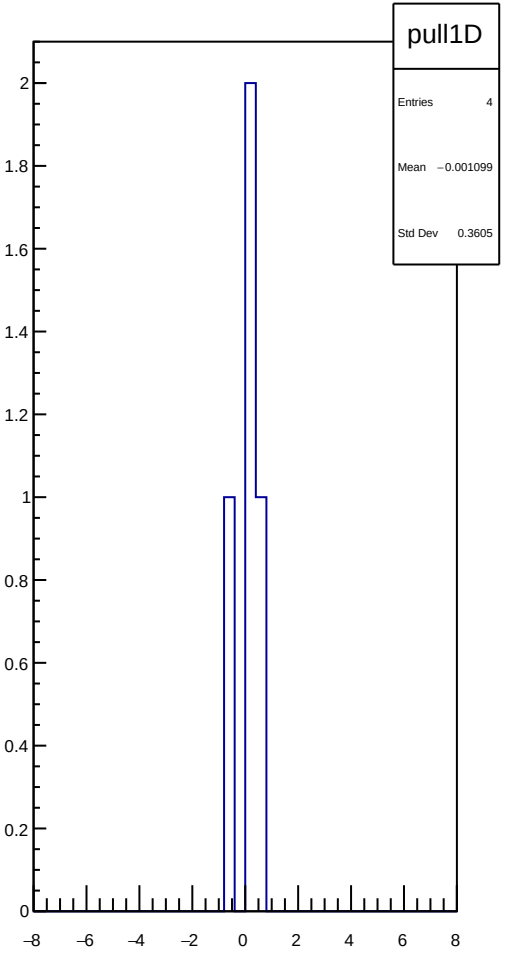

asym_atl_avg_correction_rms vs run
χ² / ndf 103.2 / 3
p0 4611 ± 15.66
4900
4800
4700
4600
4500
4400
4300
5928. 0
5929. 0
5929. 1
5929. 2

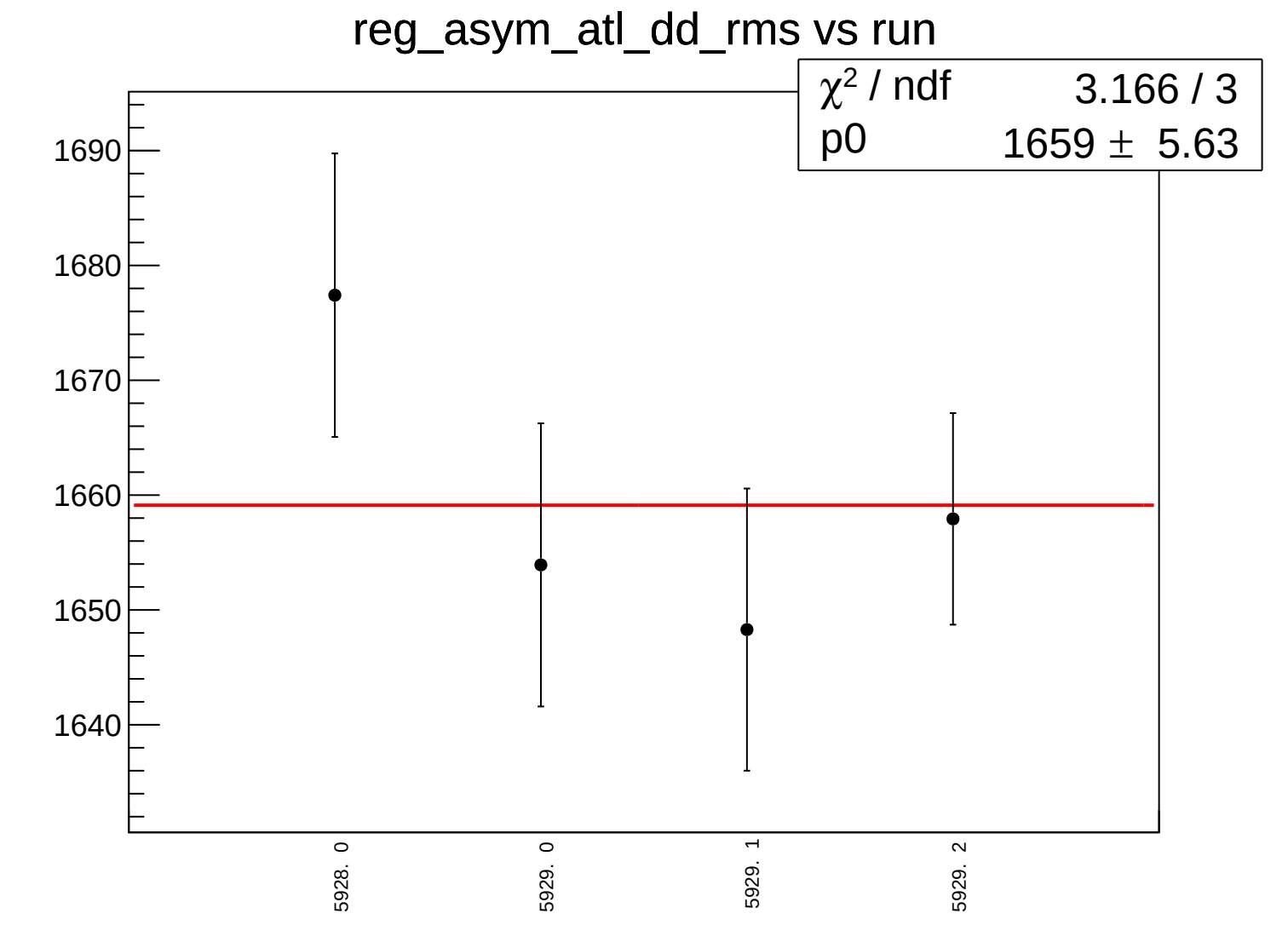

asym_atl_avg_mean vs run
×10^3
χ² / ndf 2.3 / 3
p0 −1.905e+04 ± 2.359e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.225
Std Dev 6.686
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

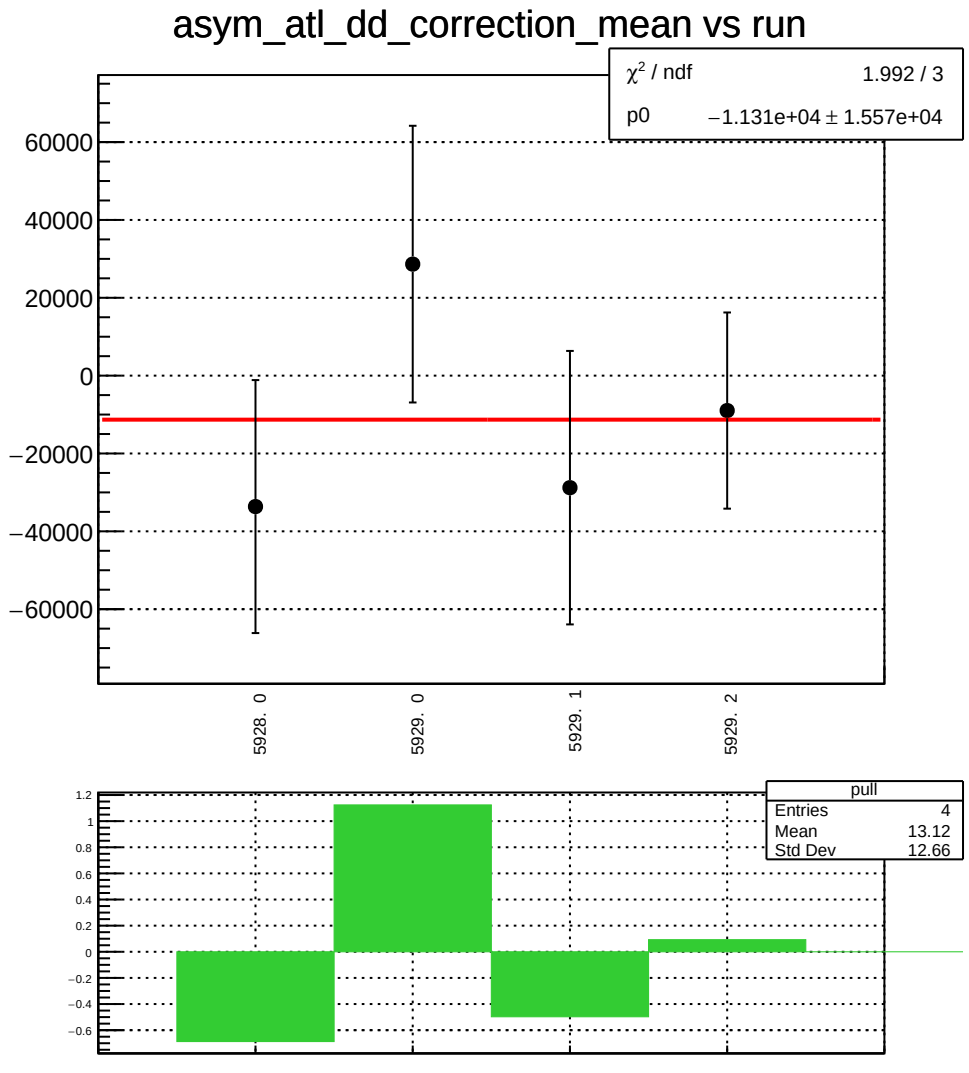

pull1D
Entries 4
Mean 0.05287
Std Dev 0.7564
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

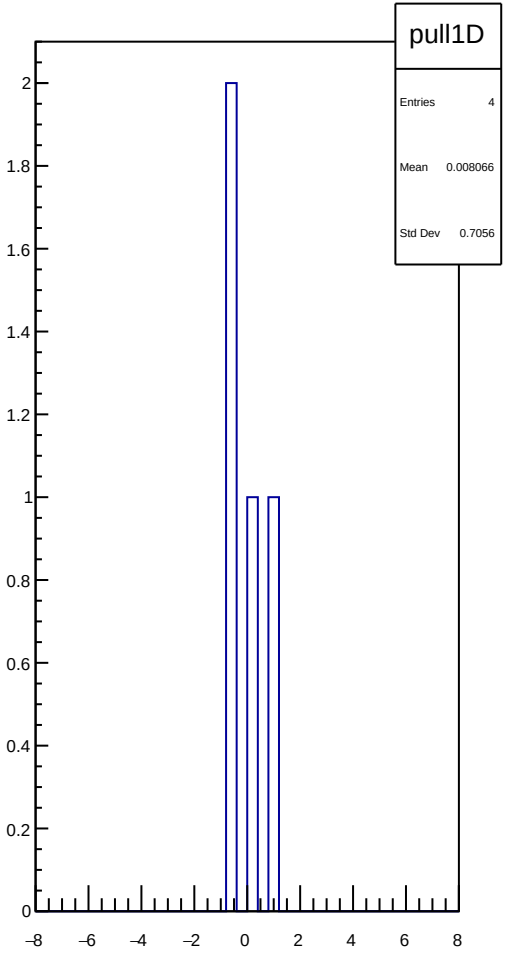

asym_atl_avg_rms vs run
χ^2 / ndf 69.65 / 3
p0 4914 ± 16.68
5100
5000
4900
4800
4700
5928. 0
5929. 0
5929. 1
5929. 2

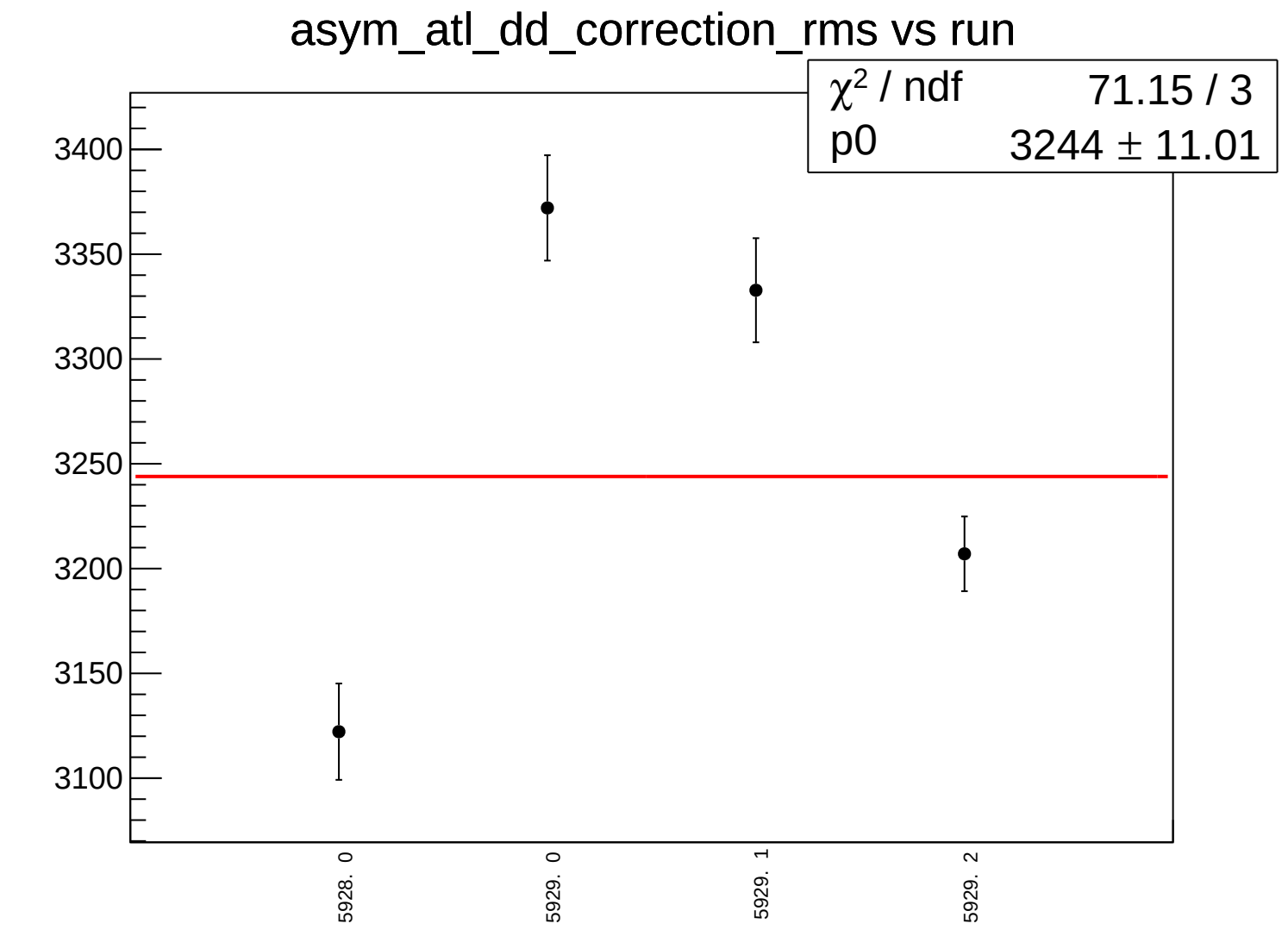

reg_asym_atl_dd_mean vs run
χ² / ndf 0.5197 / 3
p0 3590 ± 7962
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −230.9
Std Dev 232.4
0.4
0.2
0
−0.2
−0.4

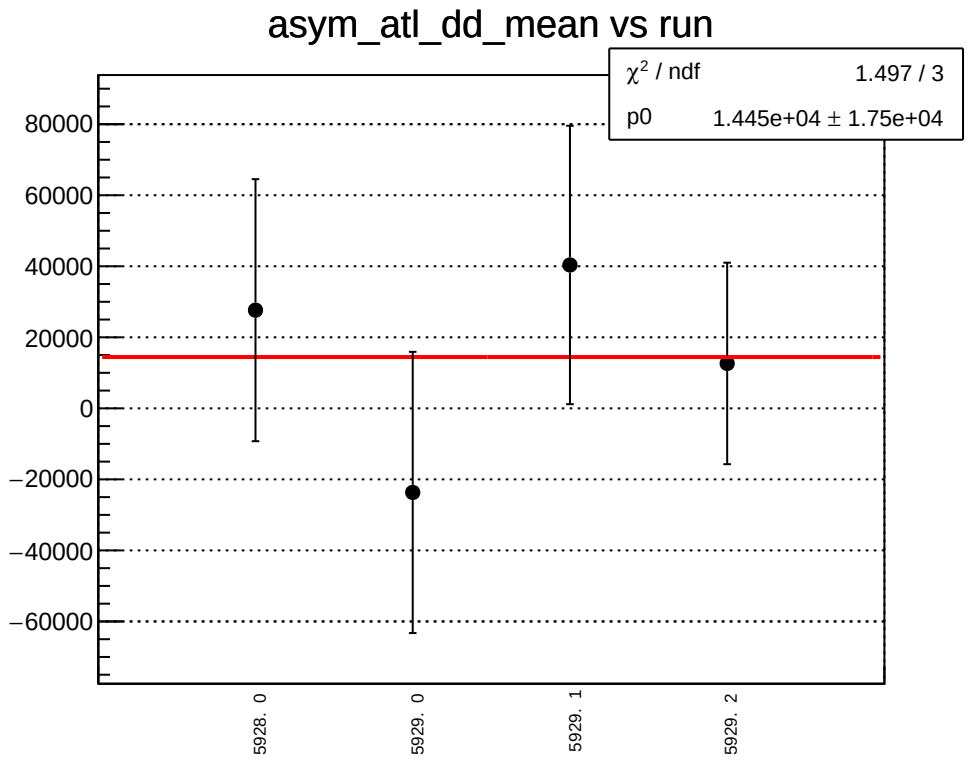

pull1D
Entries 4
Mean −0.001099
Std Dev 0.3605
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

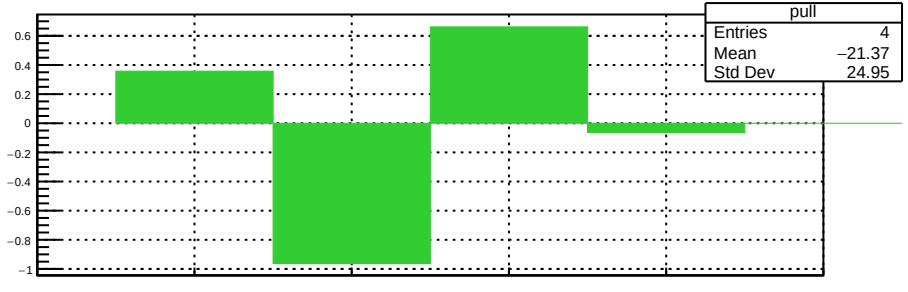

reg_asym_atl_dd_rms vs run
χ² / ndf 3.166 / 3
p0 1659 ± 5.63
1690
1680
1670
1660
1650
1640
5928. 0
5929. 0
5929. 1
5929. 2

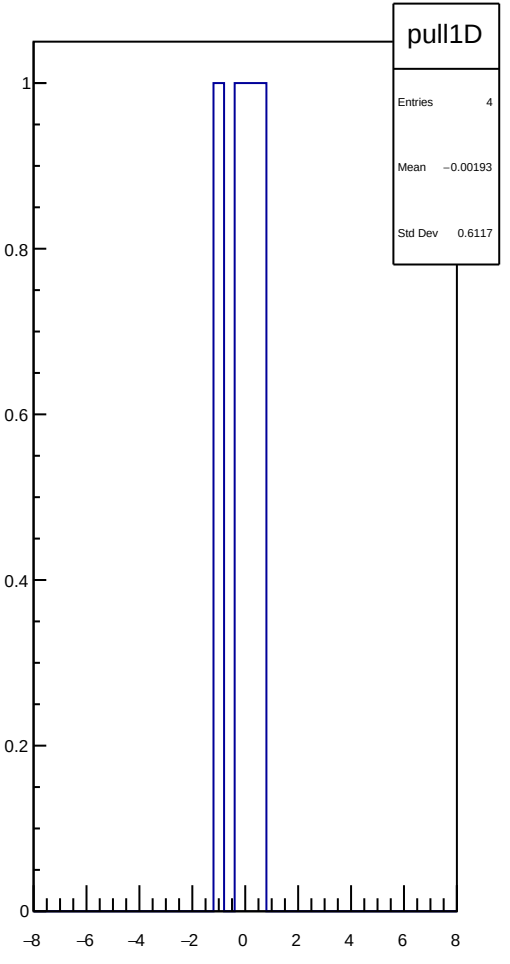

asym_atl_dd_correction_mean vs run
χ² / ndf 1.992 / 3
p0 −1.131e+04 ± 1.557e+04
60000
40000
20000
0
−20000
−40000
−60000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.12
Std Dev 12.66
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

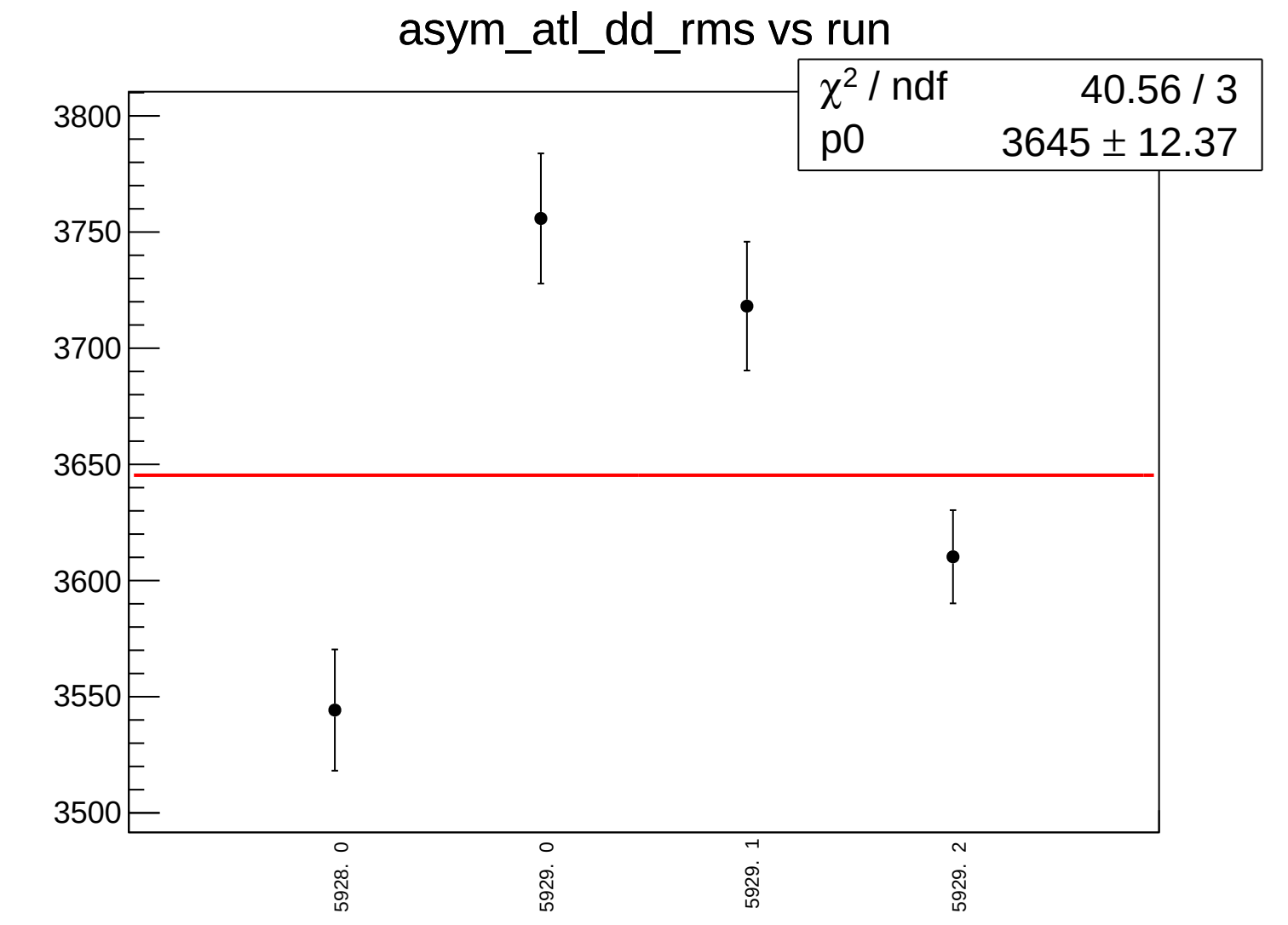

pull1D
Entries 4
Mean 0.008066
Std Dev 0.7056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

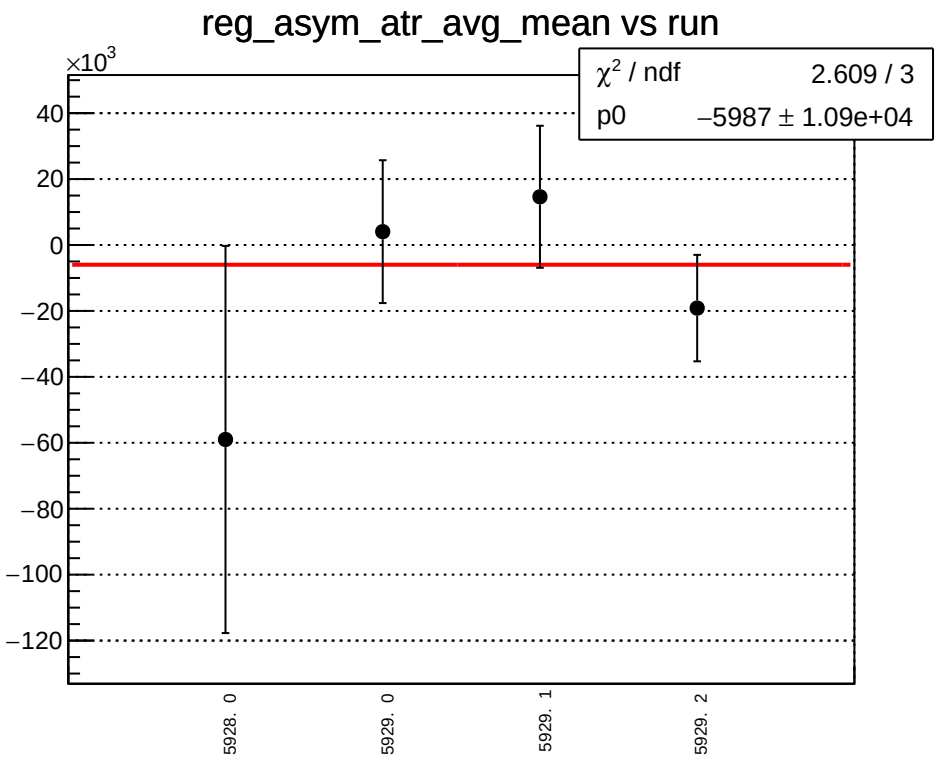

asym_atl_dd_correction_rms vs run
χ² / ndf 71.15 / 3
p0 3244 ± 11.01
3400
3350
3300
3250
3200
3150
3100
5928. 0
5929. 0
5929. 1
5929. 2

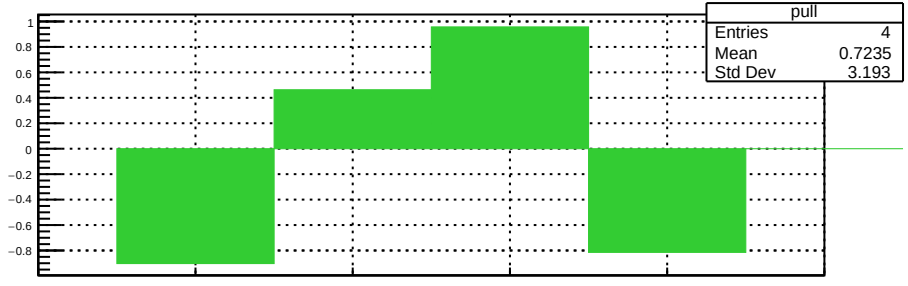

asym_atl_dd_mean vs run
χ² / ndf 1.497 / 3
p0 1.445e+04 ± 1.75e+04
80000
60000
40000
20000
0
−20000
−40000
−60000
5928. 0
5929. 0
5929. 1
5929. 2

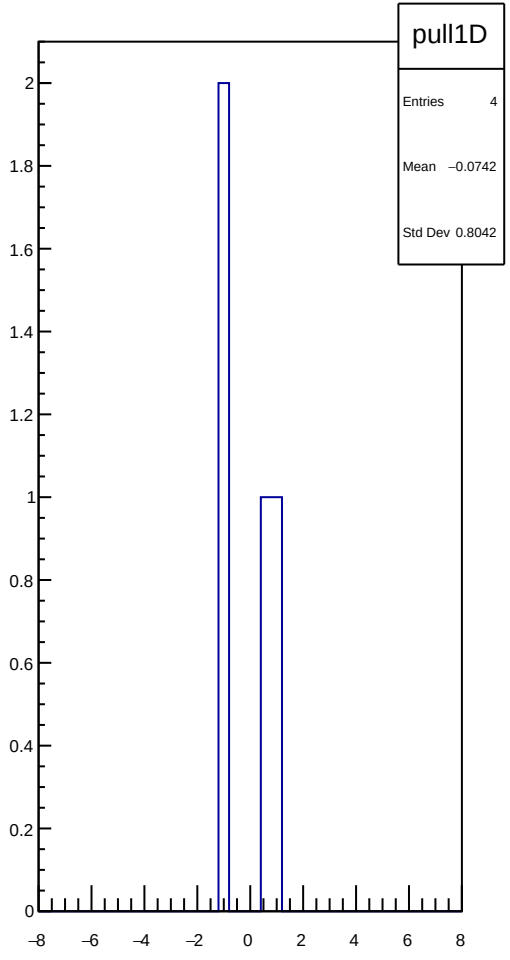

pull
Entries 4
Mean −21.37
Std Dev 24.95
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

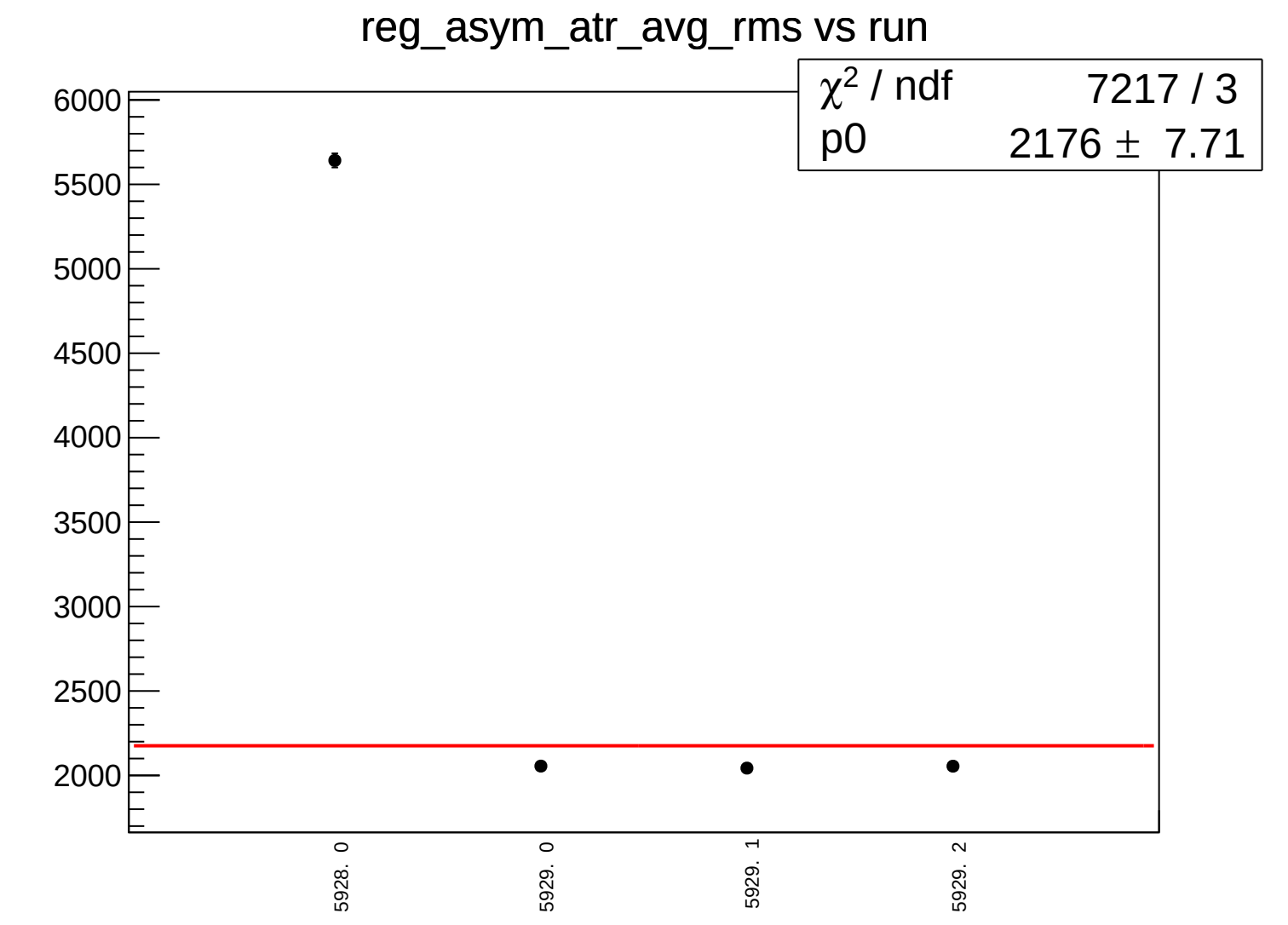

pull1D
Entries 4
Mean −0.00193
Std Dev 0.6117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

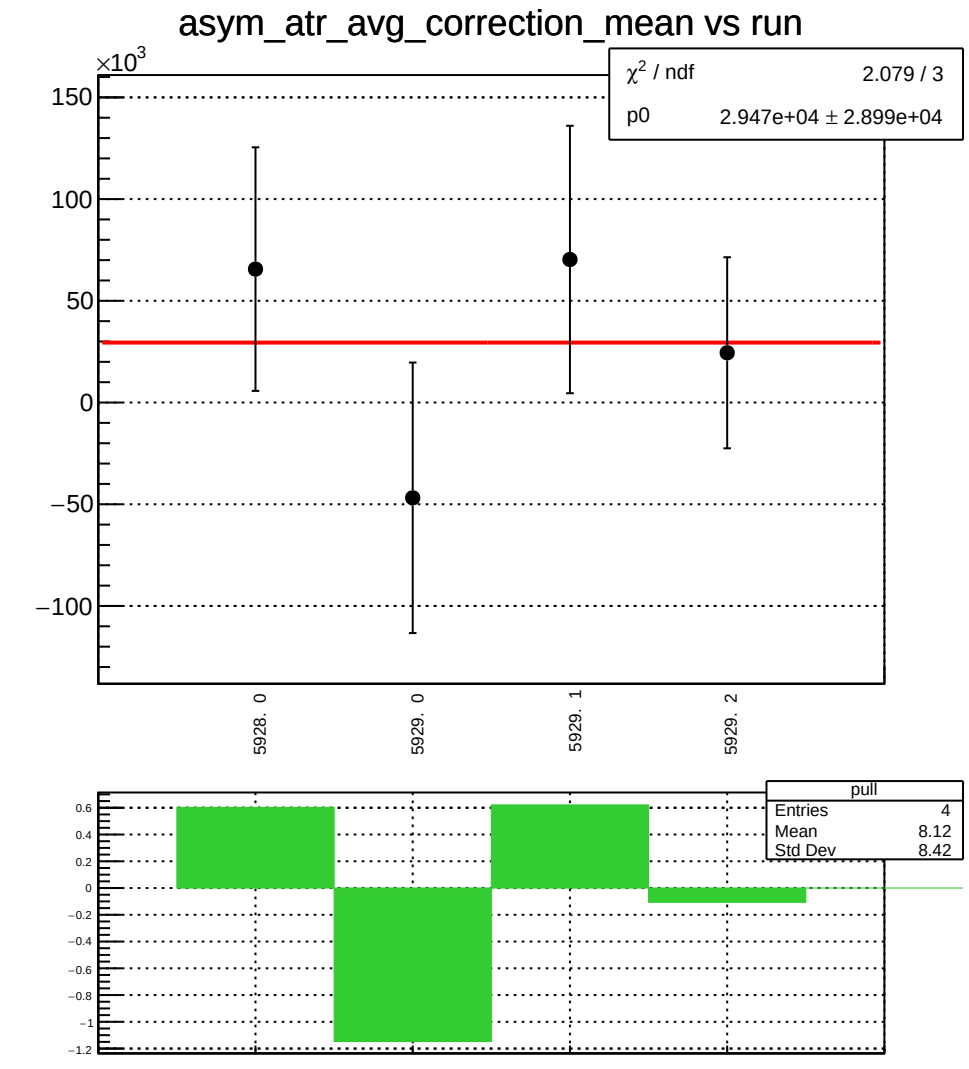

asym_atl_dd_rms vs run
χ² / ndf 40.56 / 3
p0 3645 ± 12.37
3800
3750
3700
3650
3600
3550
3500
5928. 0
5929. 0
5929. 1
5929. 2

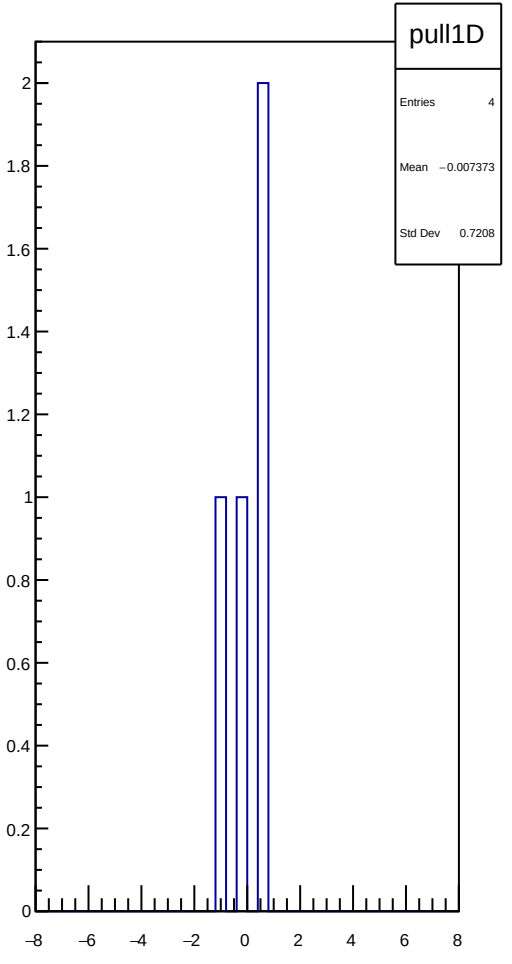

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 2.609 / 3
p0 −5987 ± 1.09e+04
40
20
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2

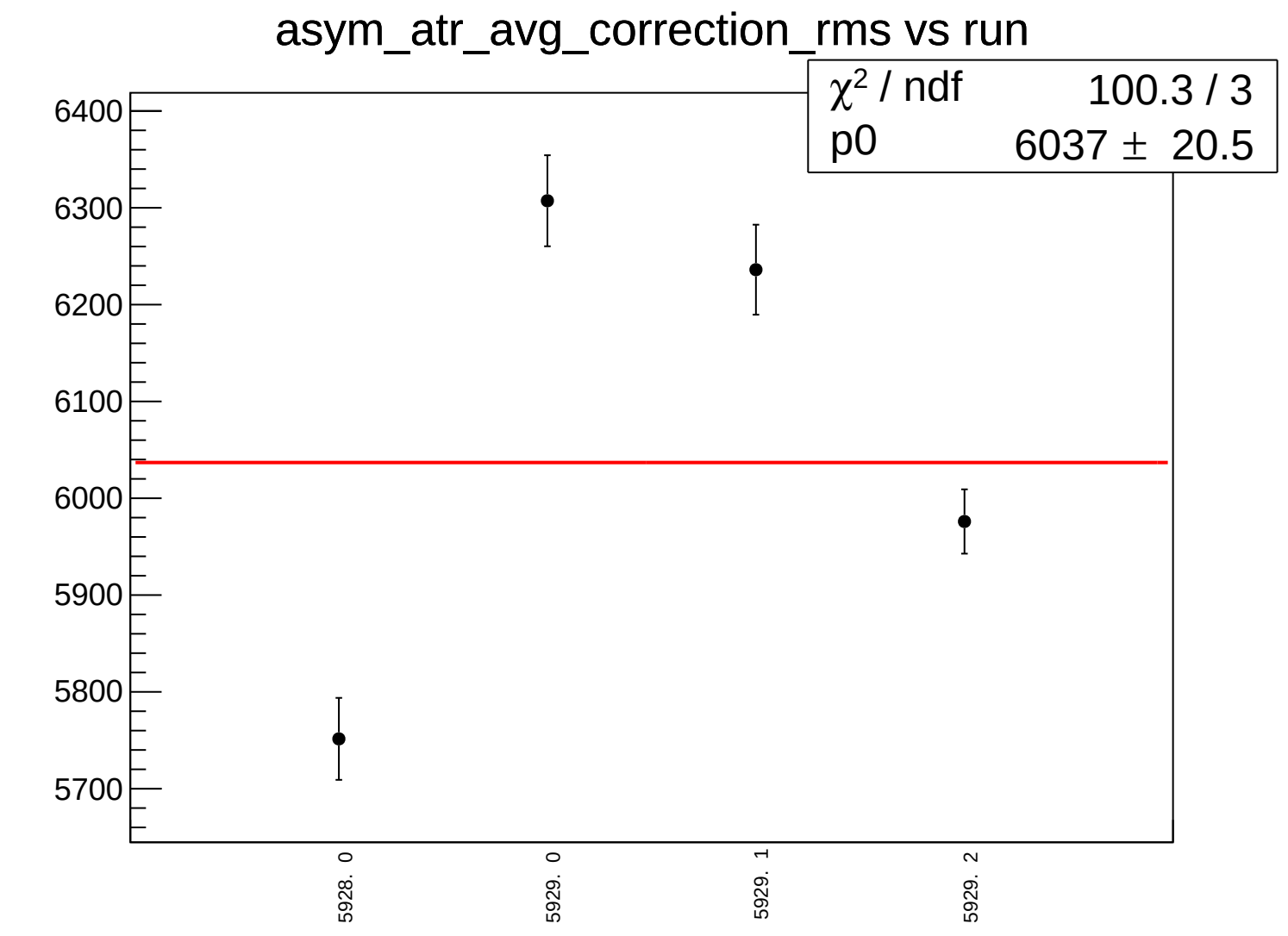

pull
Entries 4
Mean 0.7235
Std Dev 3.193
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

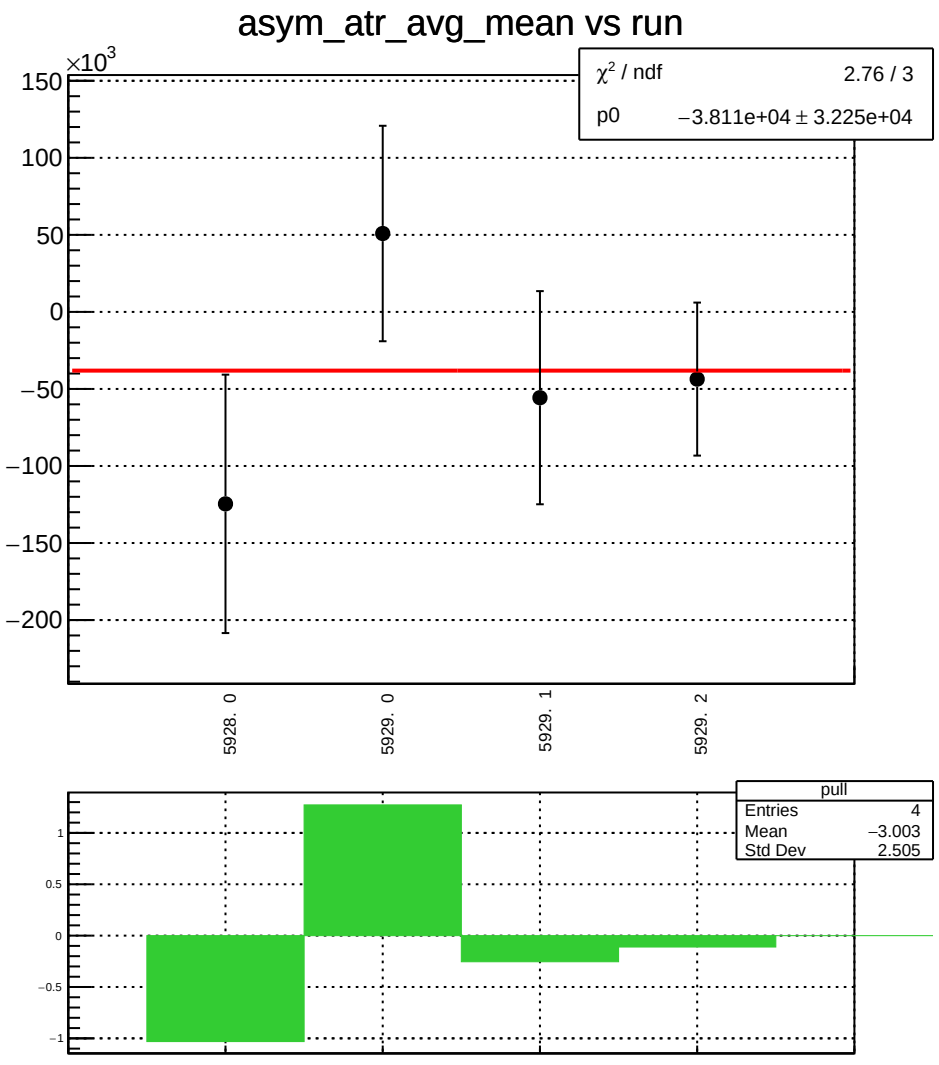

pull1D
Entries 4
Mean −0.0742
Std Dev 0.8042
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

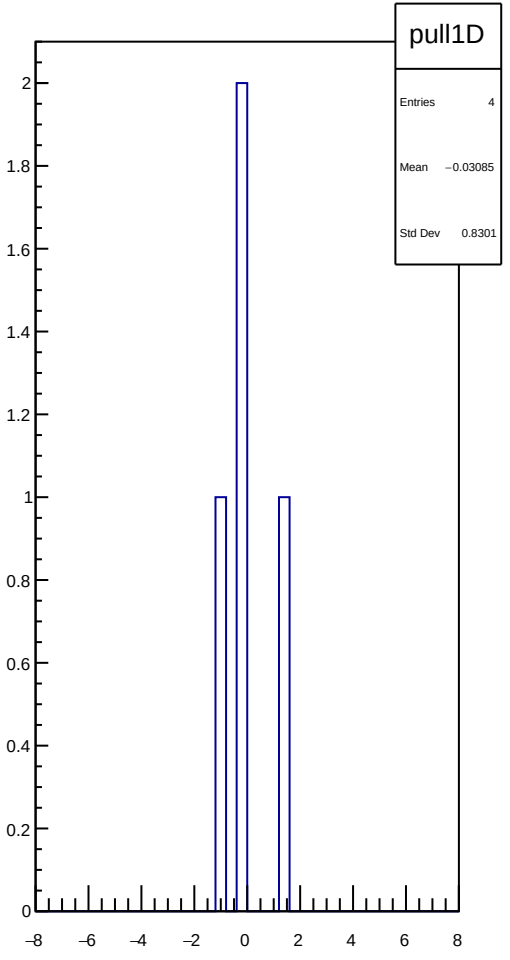

reg_asym_atr_avg_rms vs run
χ² / ndf 7217 / 3
p0 2176 ± 7.71
6000
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

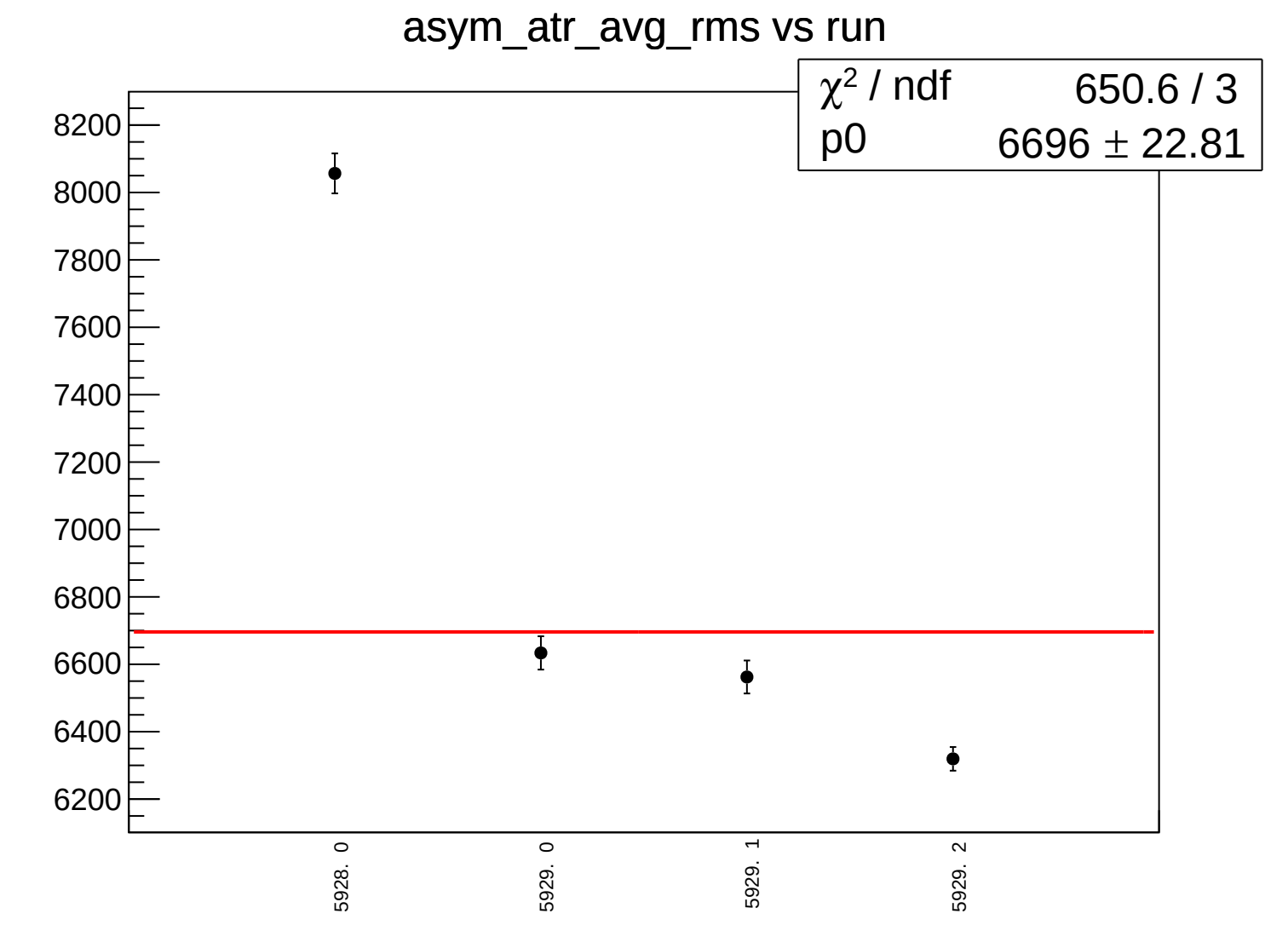

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 2.079 / 3
p0 2.947e+04 ± 2.899e+04
150
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.12
Std Dev 8.42
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

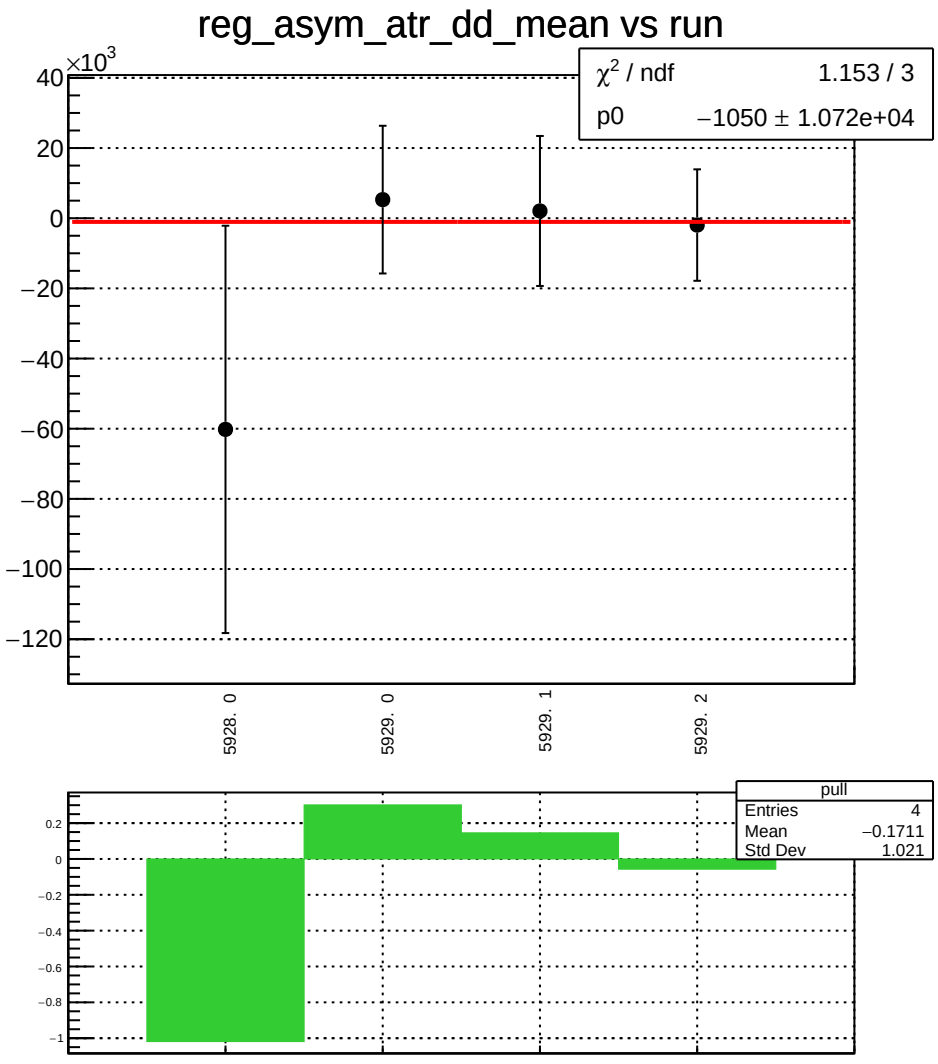

pull1D
Entries 4
Mean −0.007373
Std Dev 0.7208
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

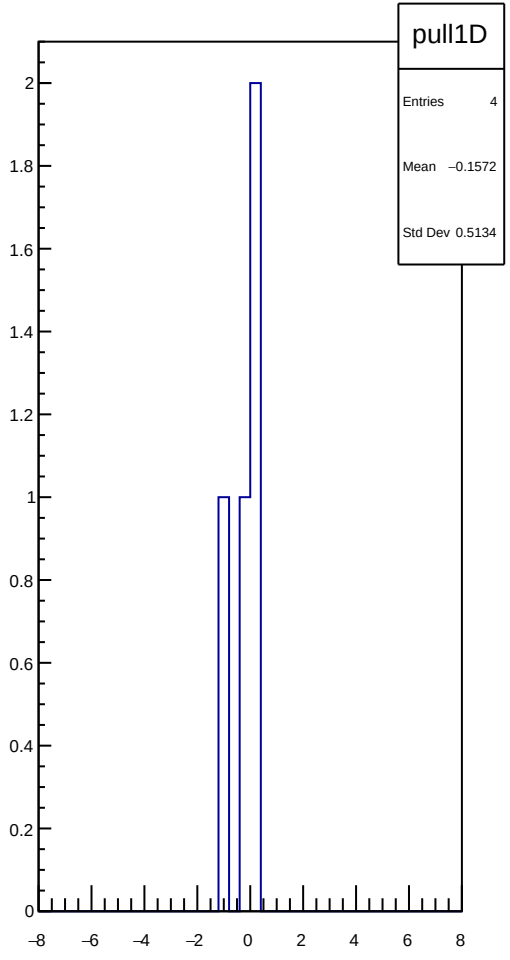

asym_atr_avg_correction_rms vs run
χ² / ndf 100.3 / 3
p0 6037 ± 20.5
6400
6300
6200
6100
6000
5900
5800
5700
5928. 0
5929. 0
5929. 1
5929. 2

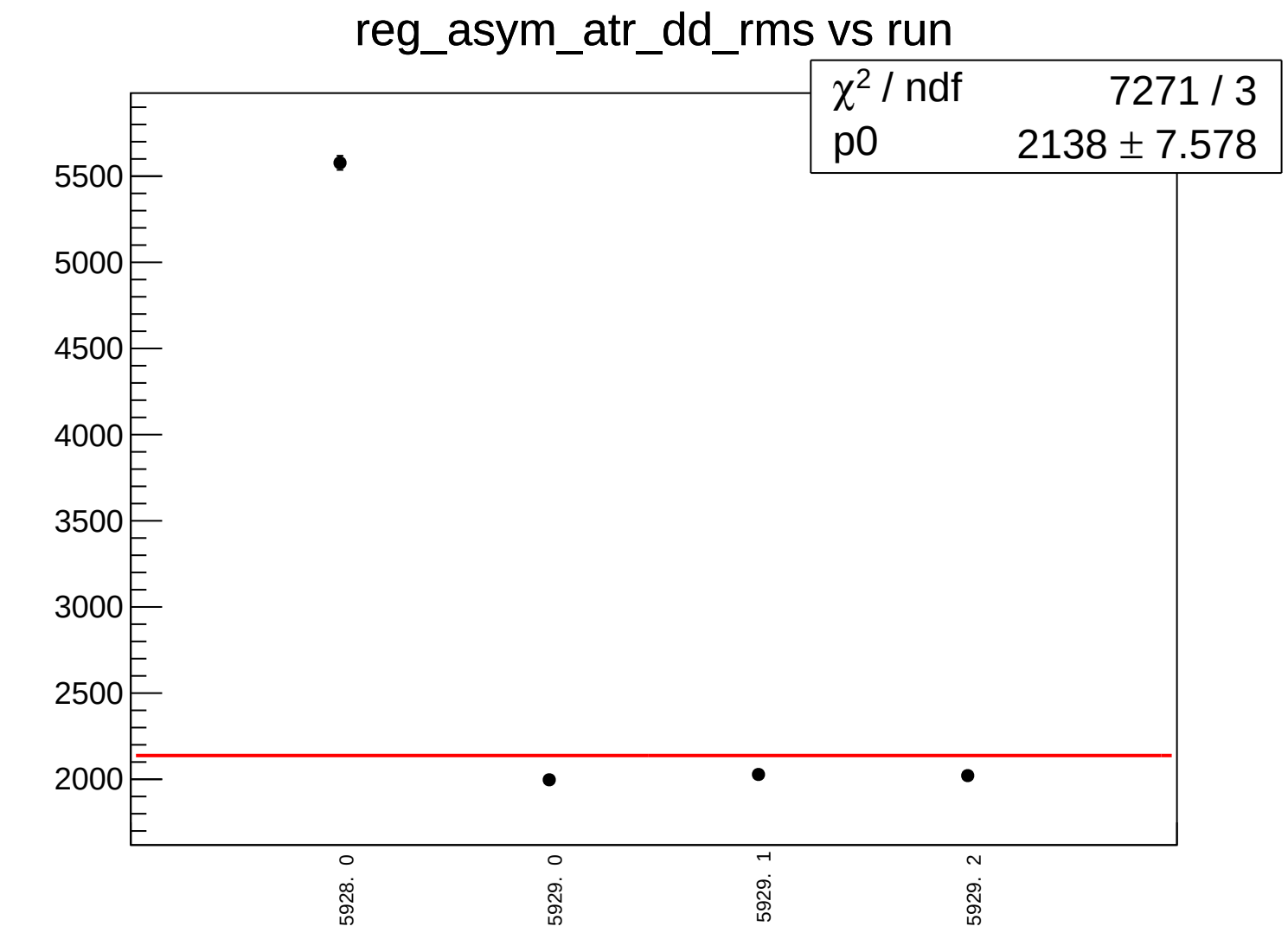

asym_atr_avg_mean vs run
×10^3
χ² / ndf 2.76 / 3
p0 −3.811e+04 ± 3.225e+04
150
100
50
0
−50
−100
−150
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.003
Std Dev 2.505
1
0.5
0
−0.5
−1

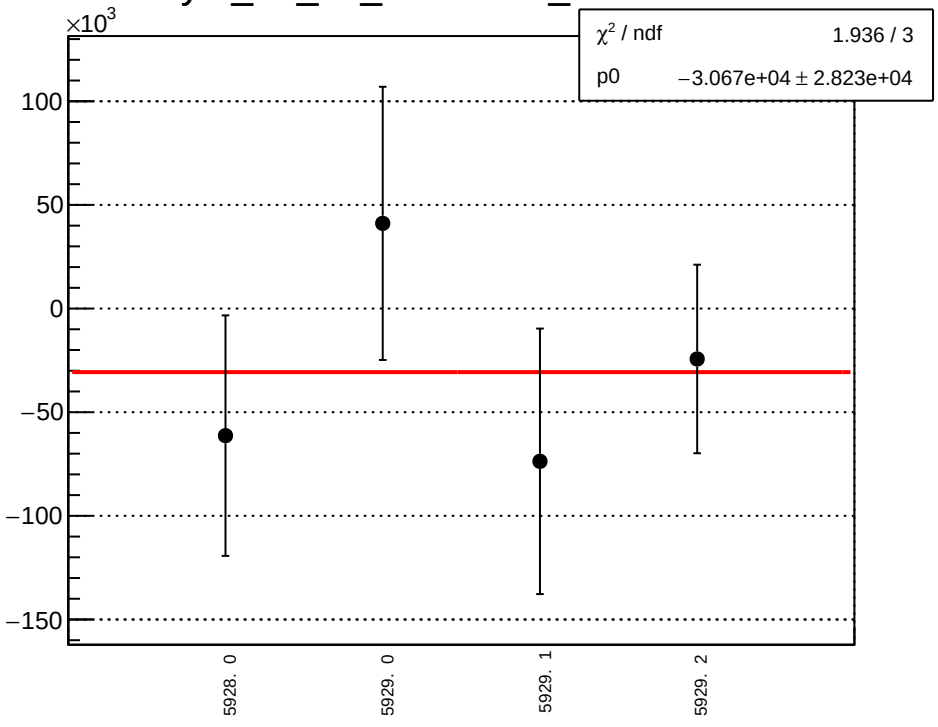

pull1D
Entries 4
Mean −0.03085
Std Dev 0.8301
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

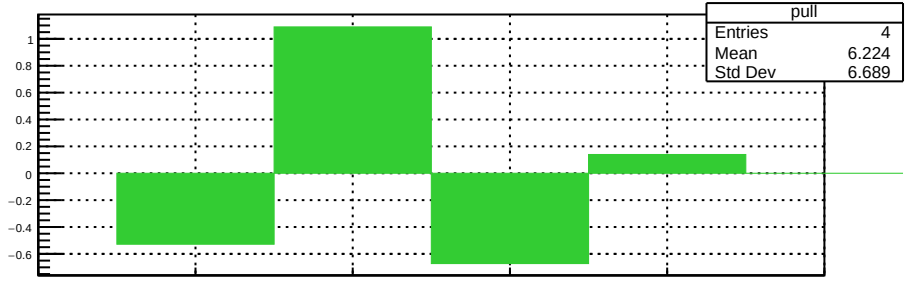

asym_atr_avg_rms vs run
χ² / ndf 650.6 / 3
p0 6696 ± 22.81
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
5928. 0
5929. 0
5929. 1
5929. 2

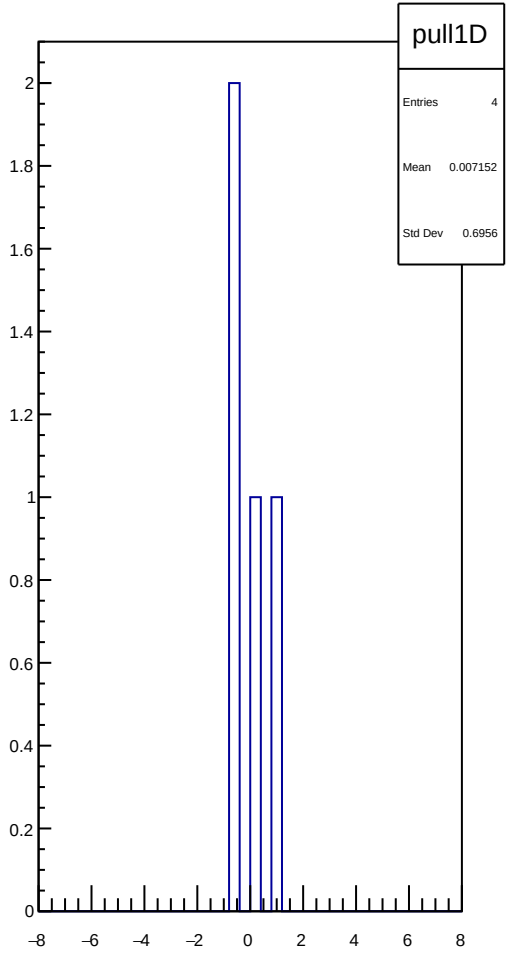

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 1.153 / 3
p0 −1050 ± 1.072e+04
40
20
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.1711
Std Dev 1.021
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

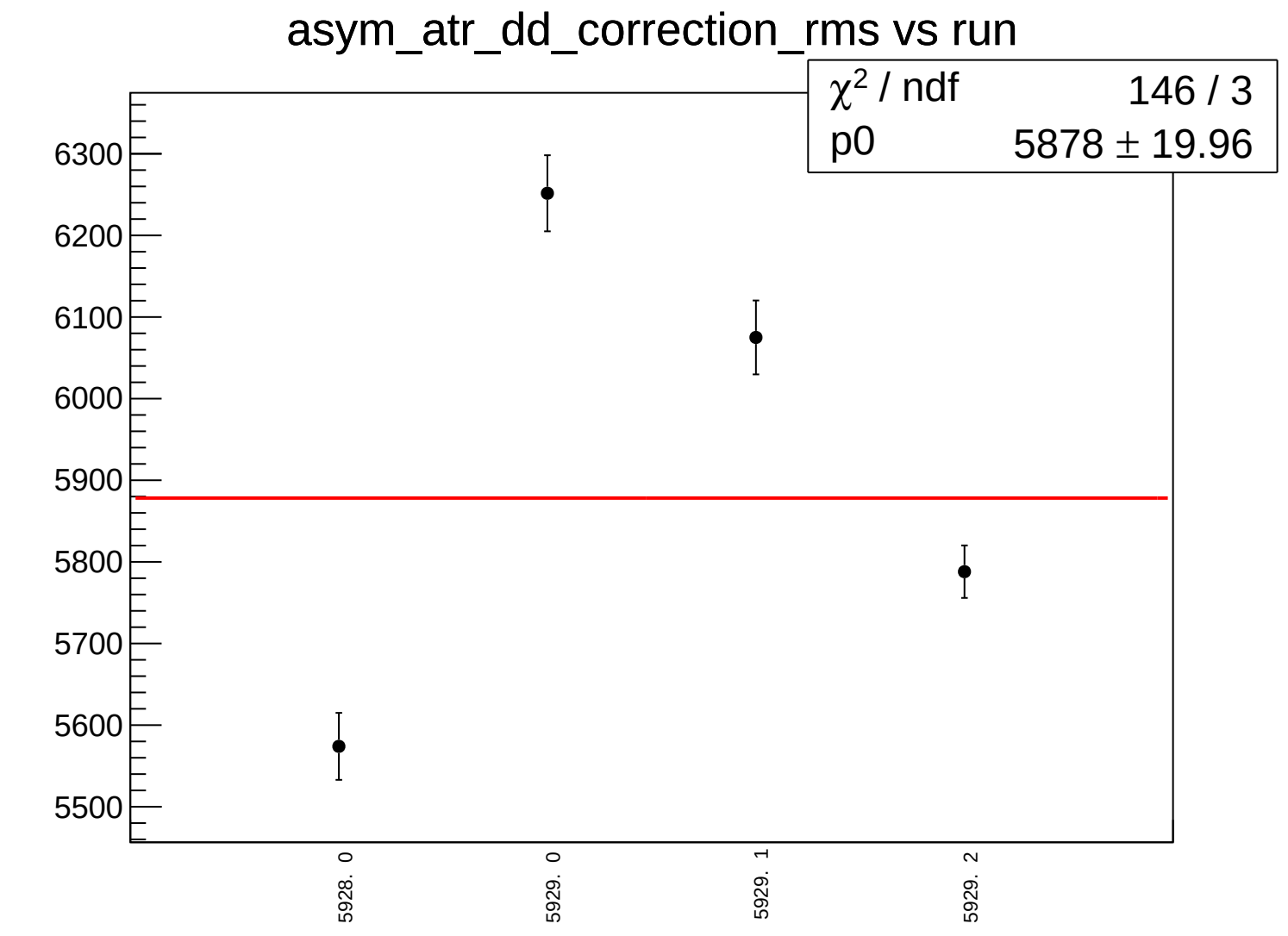

pull1D
Entries 4
Mean −0.1572
Std Dev 0.5134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

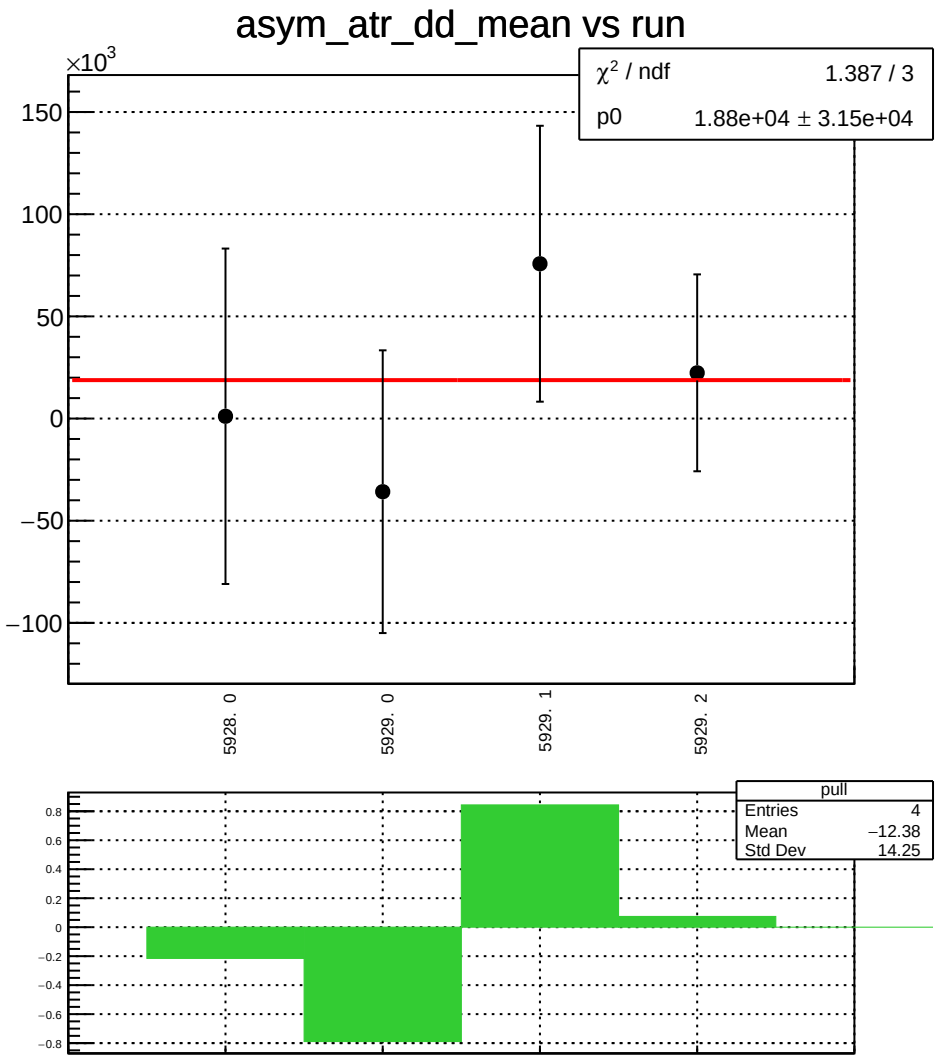

reg_asym_atr_dd_rms vs run
χ² / ndf 7271 / 3
p0 2138 ± 7.578
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

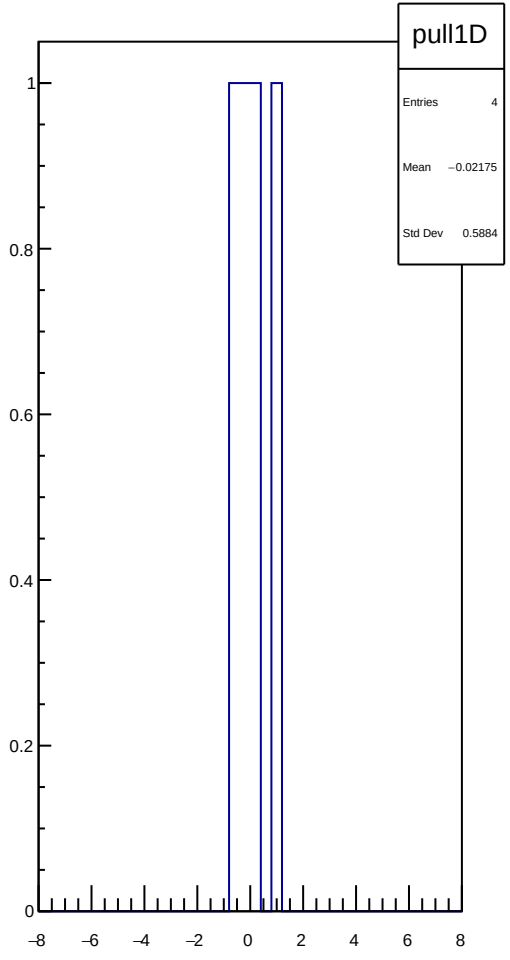

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 1.936 / 3
p0 −3.067e+04 ± 2.823e+04
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2

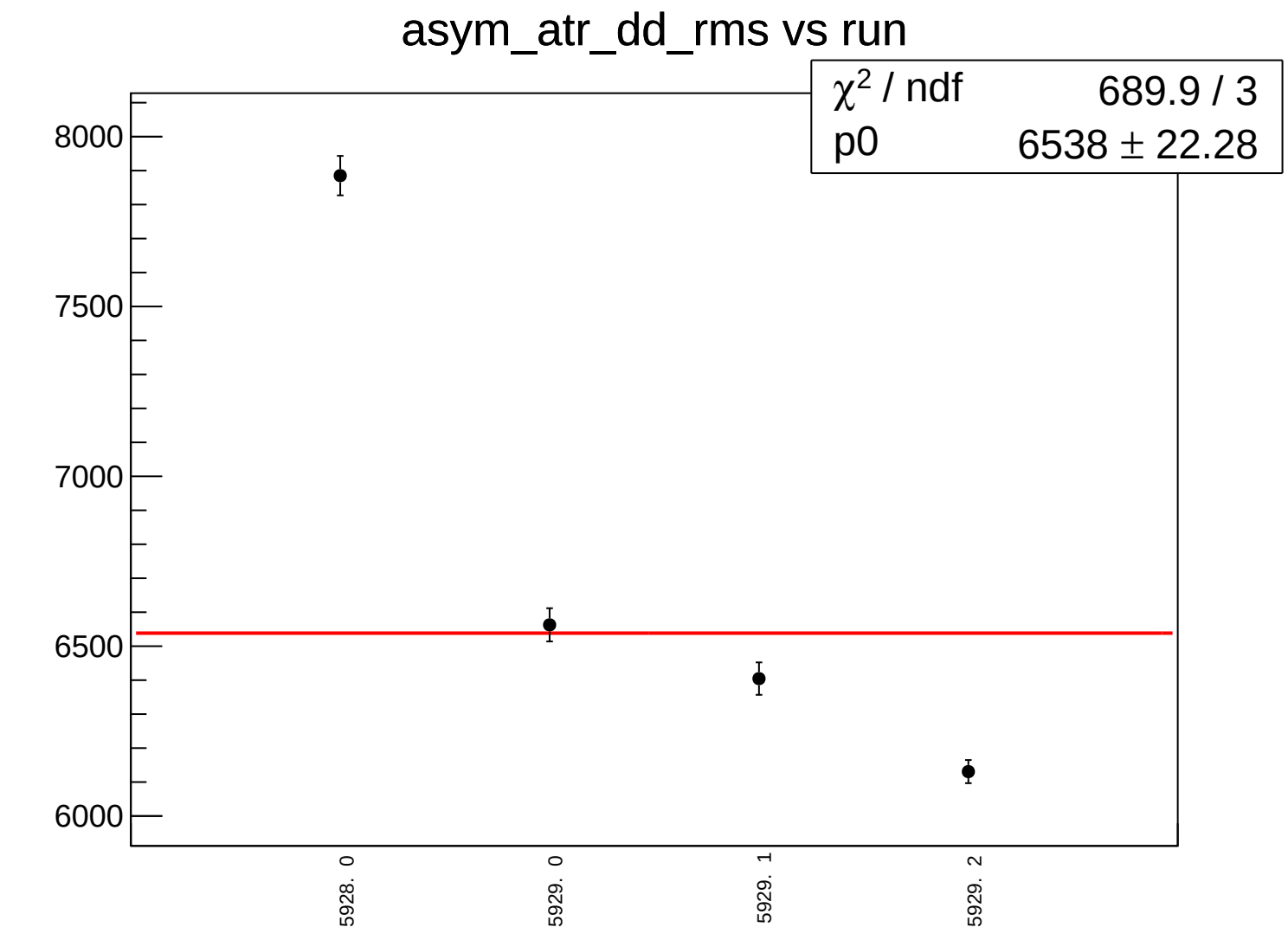

pull
Entries 4
Mean 6.224
Std Dev 6.689
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

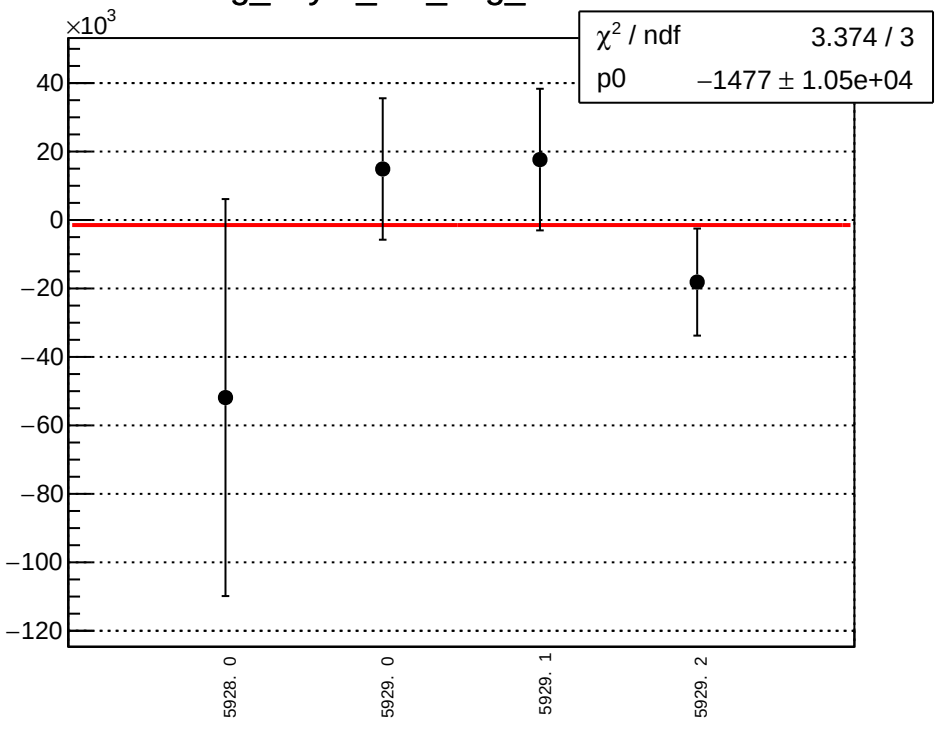

pull1D
Entries 4
Mean 0.007152
Std Dev 0.6956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

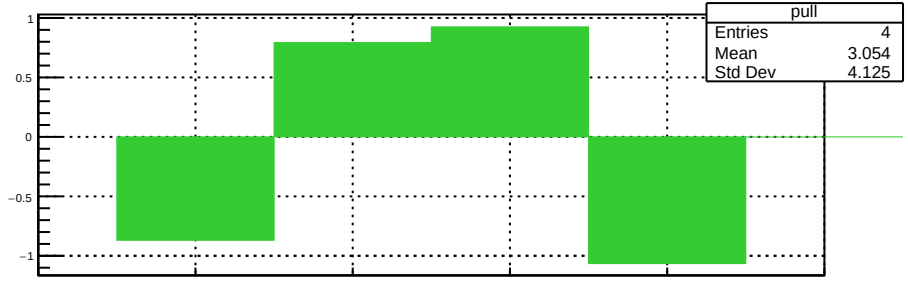

asym_atr_dd_correction_rms vs run
χ² / ndf 146 / 3
p0 5878 ± 19.96
6300
6200
6100
6000
5900
5800
5700
5600
5500
5928. 0
5929. 0
5929. 1
5929. 2

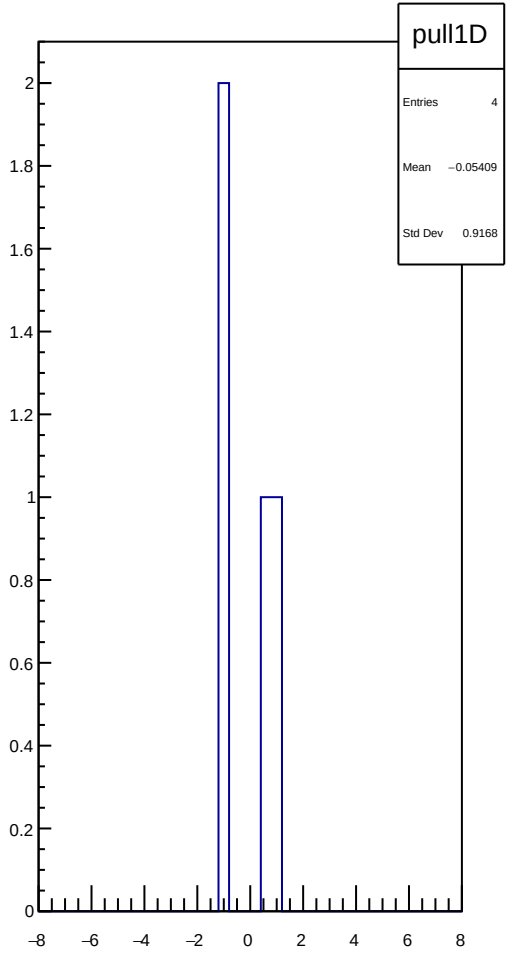

asym_atr_dd_mean vs run
×10^3
χ² / ndf 1.387 / 3
p0 1.88e+04 ± 3.15e+04
150
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.38
Std Dev 14.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

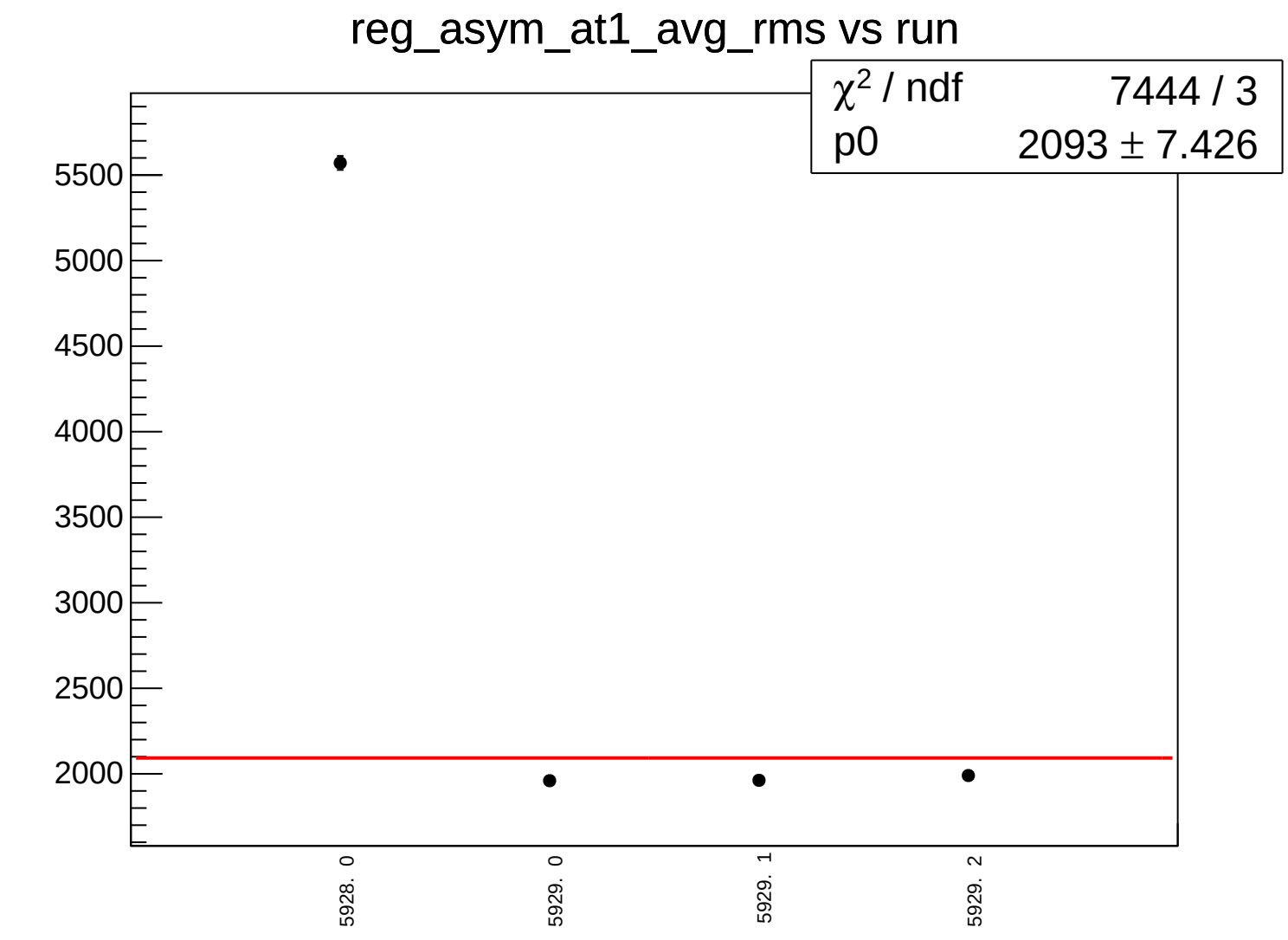

pull1D
Entries 4
Mean −0.02175
Std Dev 0.5884
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

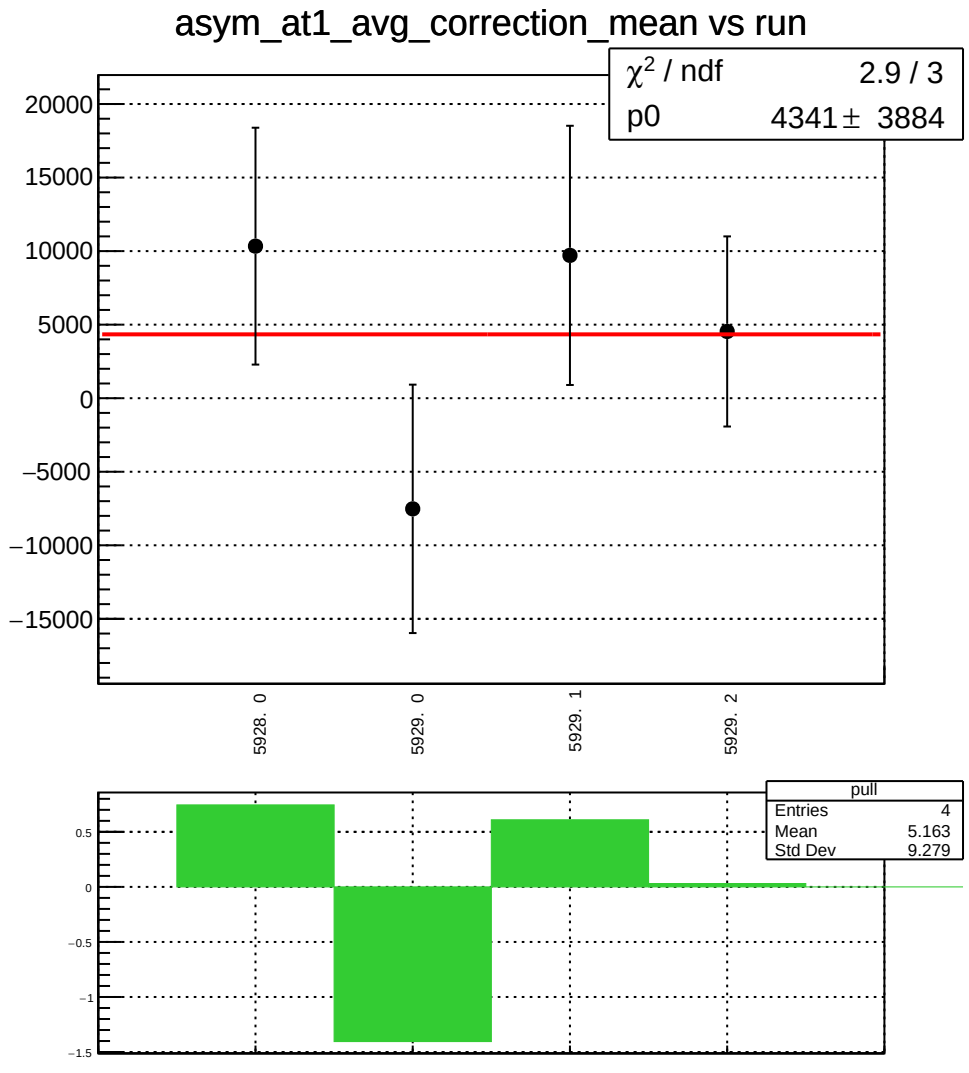

asym_atr_dd_rms vs run
χ² / ndf 689.9 / 3
p0 6538 ± 22.28
8000
7500
7000
6500
6000
5928. 0
5929. 0
5929. 1
5929. 2

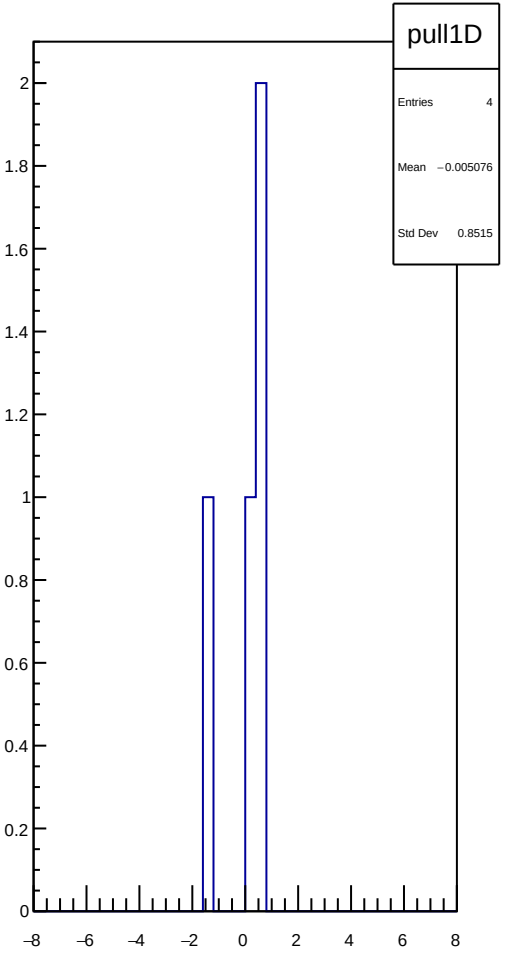

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 3.374 / 3
p0 −1477 ± 1.05e+04
40
20
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2

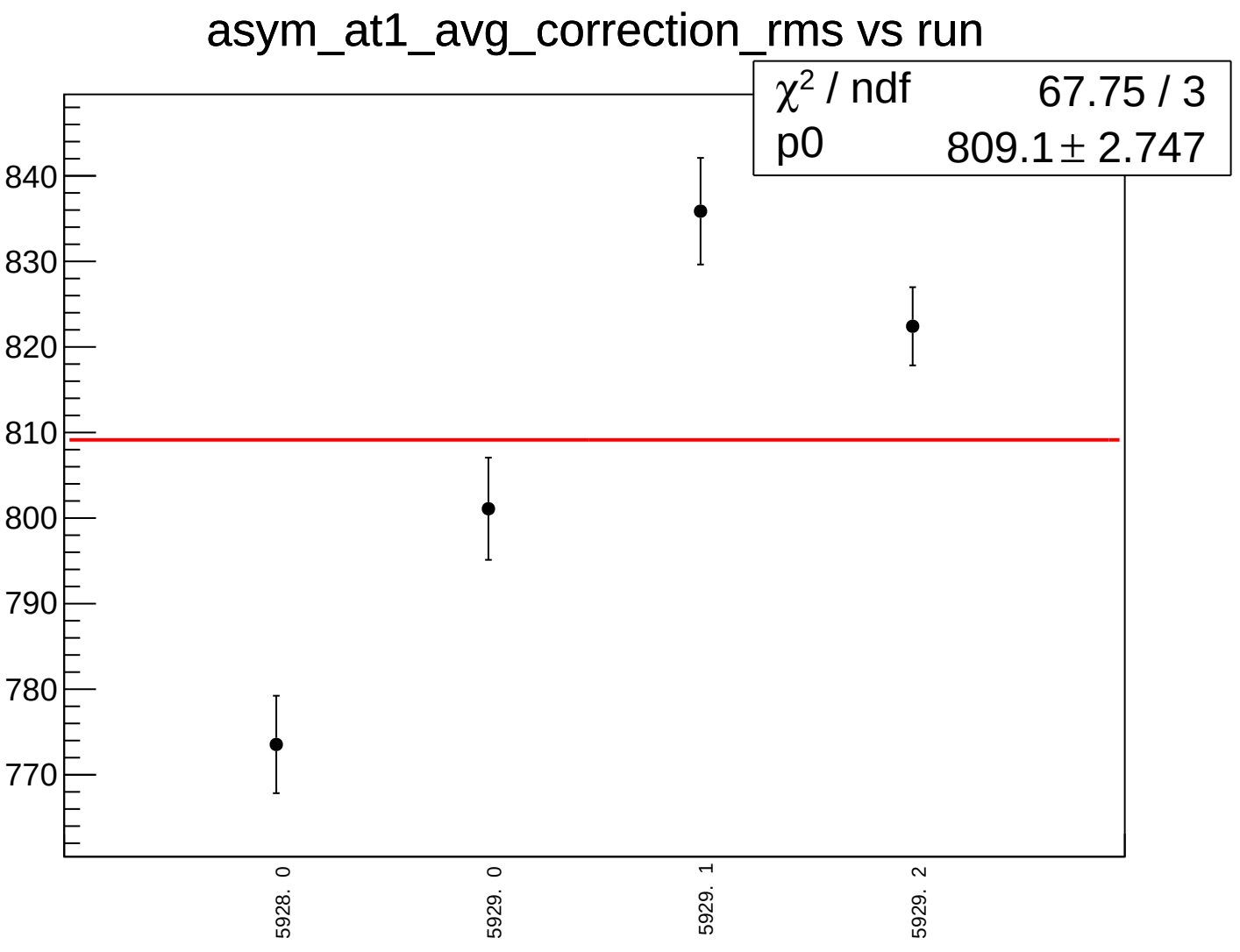

pull
Entries 4
Mean 3.054
Std Dev 4.125
1
0.5
0
−0.5
−1

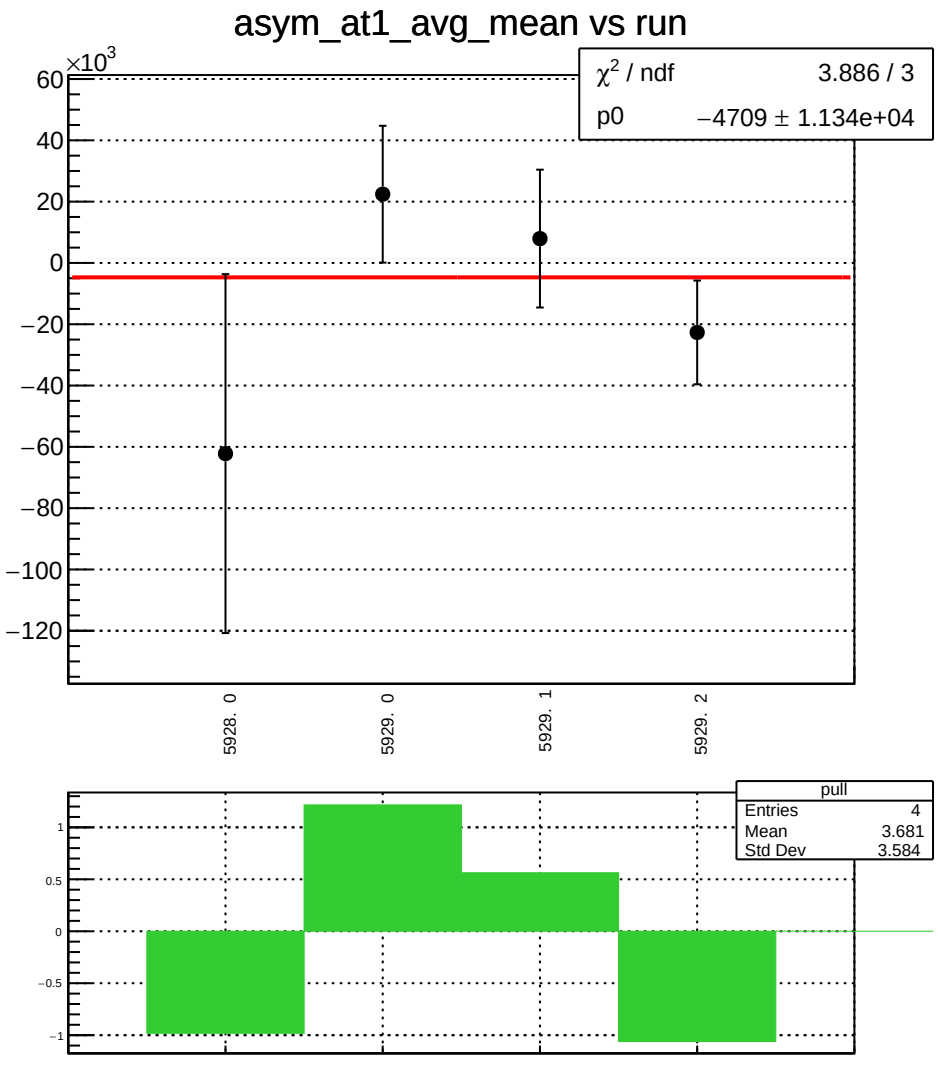

pull1D
Entries 4
Mean −0.05409
Std Dev 0.9168
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

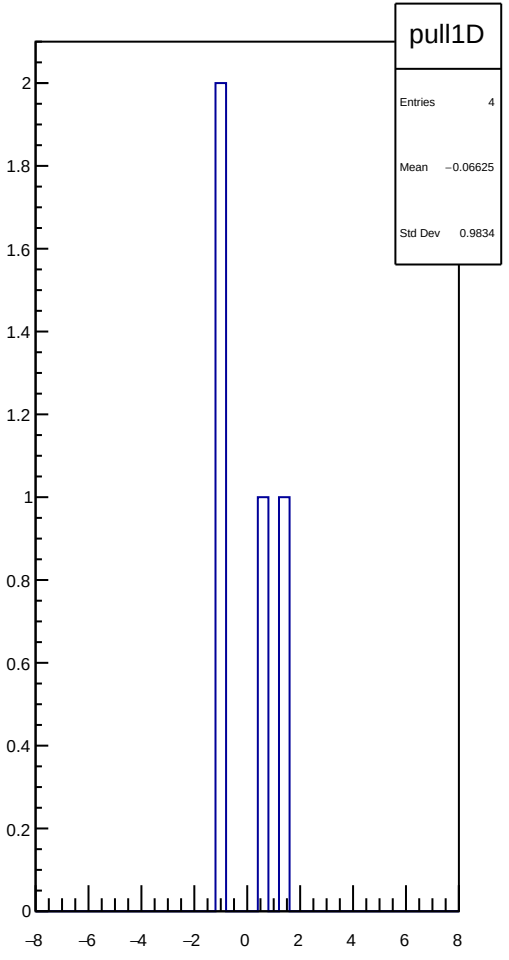

reg_asym_at1_avg_rms vs run
χ² / ndf 7444 / 3
p0 2093 ± 7.426
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

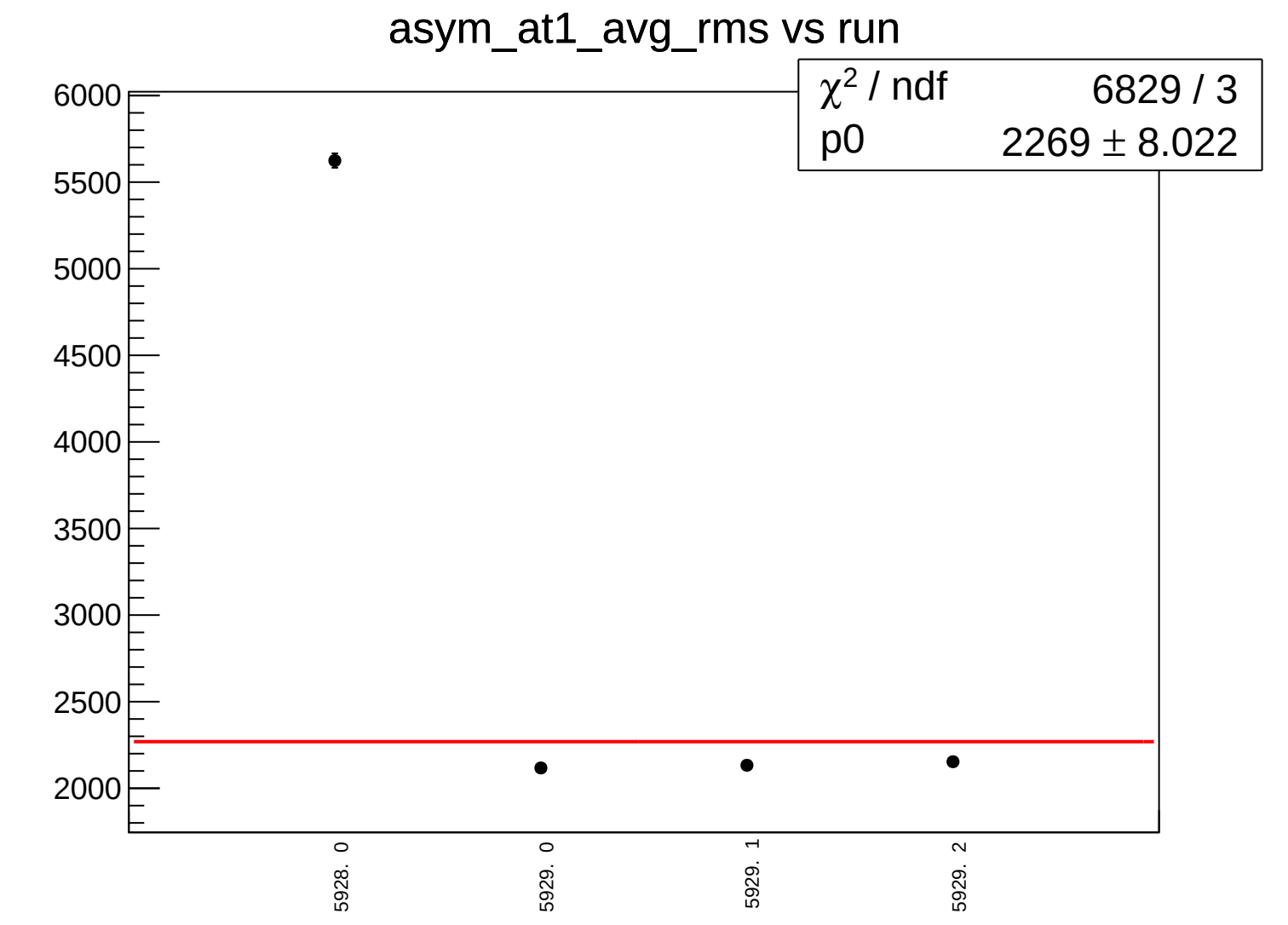

asym_at1_avg_correction_mean vs run
χ² / ndf 2.9 / 3
p0 4341 ± 3884
20000
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.163
Std Dev 9.279
0.5
0
−0.5
−1
−1.5

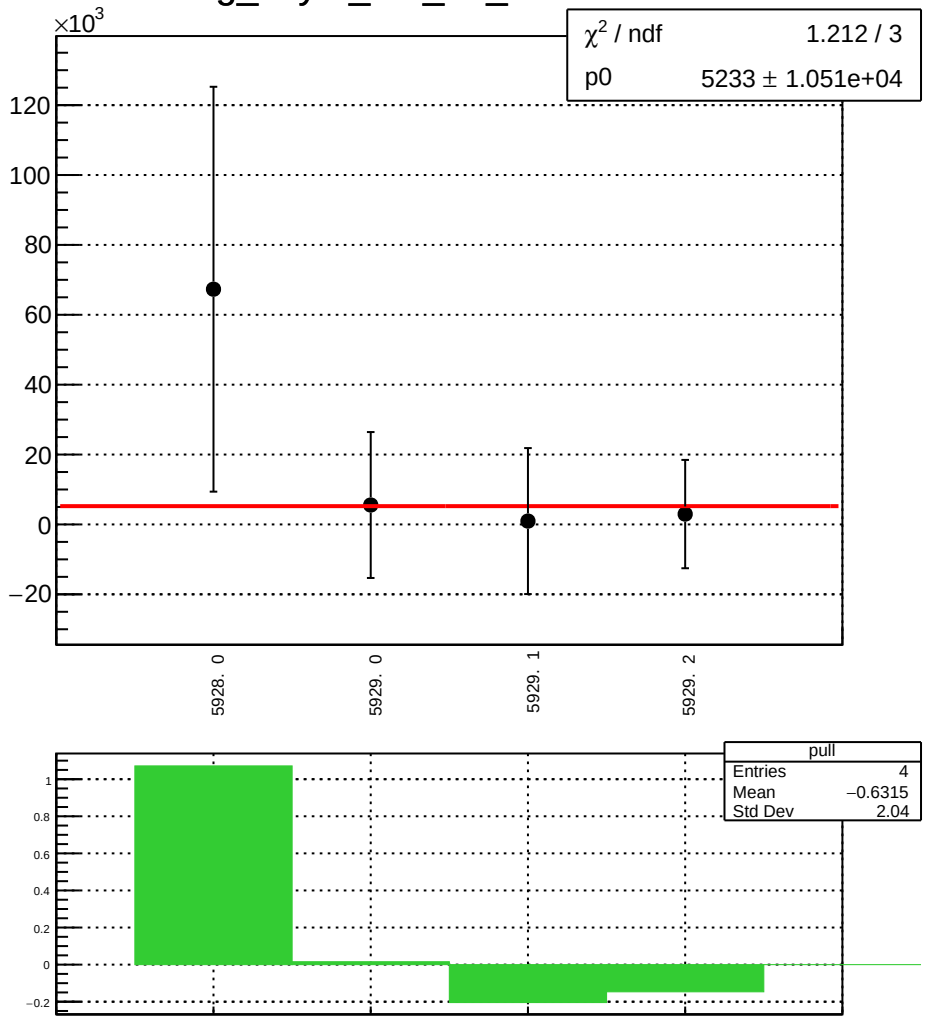

pull1D
Entries 4
Mean −0.005076
Std Dev 0.8515
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

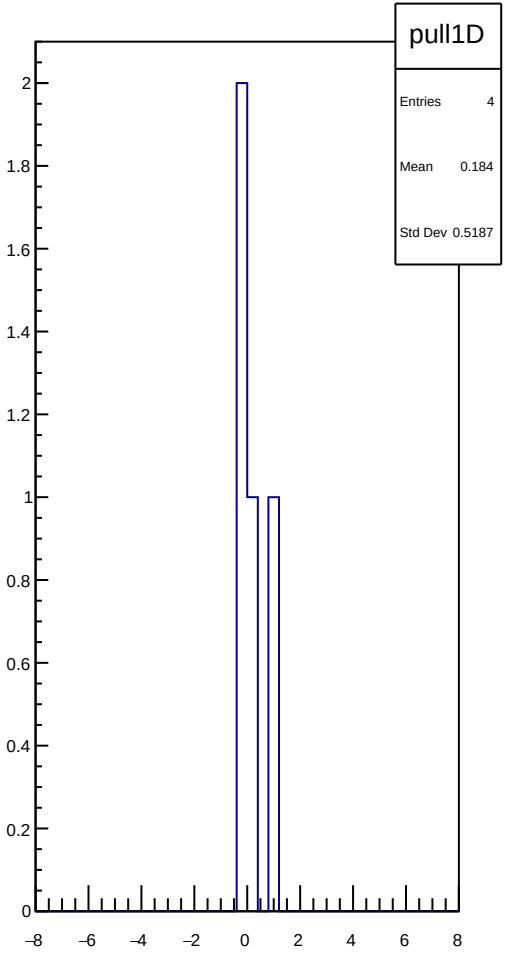

asym_at1_avg_correction_rms vs run
χ² / ndf 67.75 / 3
p0 809.1 ± 2.747
840
830
820
810
800
790
780
770
5928. 0
5929. 0
5929. 1
5929. 2

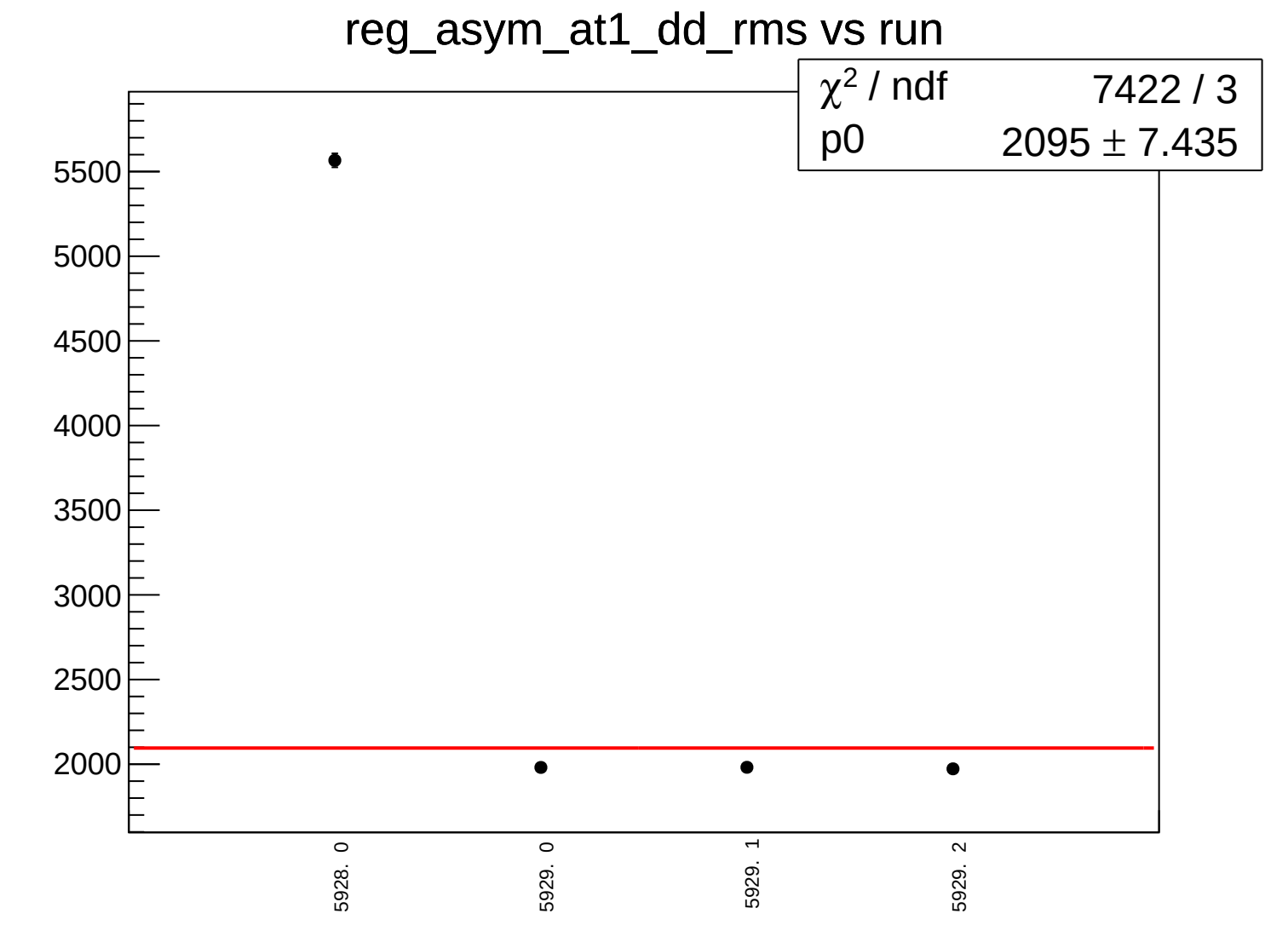

asym_at1_avg_mean vs run
×10^3
χ² / ndf 3.886 / 3
p0 −4709 ± 1.134e+04
60
40
20
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 3.681
Std Dev 3.584
1
0.5
0
−0.5
−1

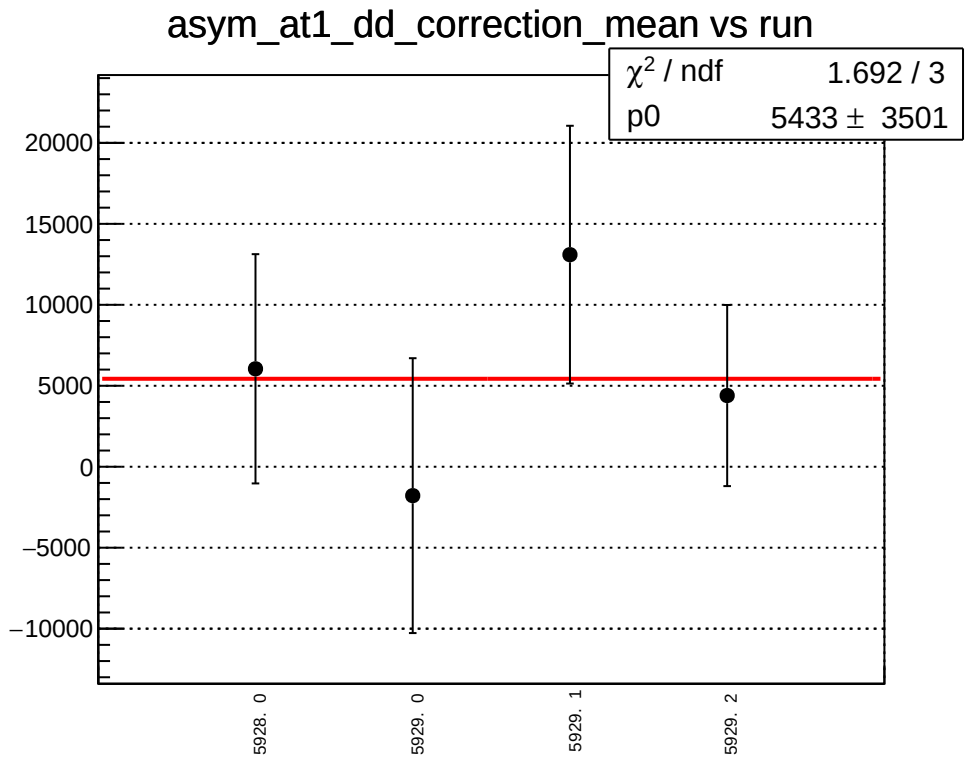

pull1D
Entries 4
Mean −0.06625
Std Dev 0.9834
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

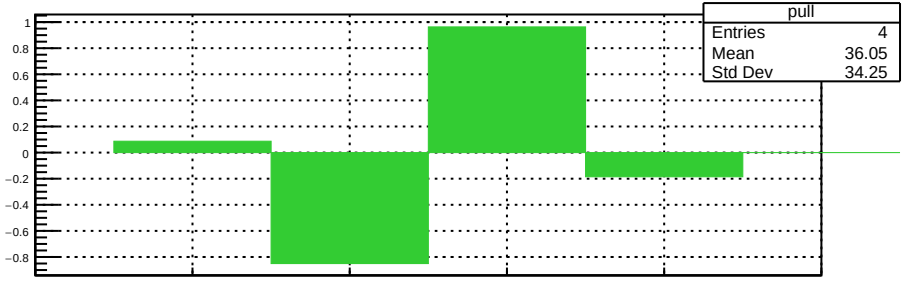

asym_at1_avg_rms vs run
χ² / ndf 6829 / 3
p0 2269 ± 8.022
6000
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

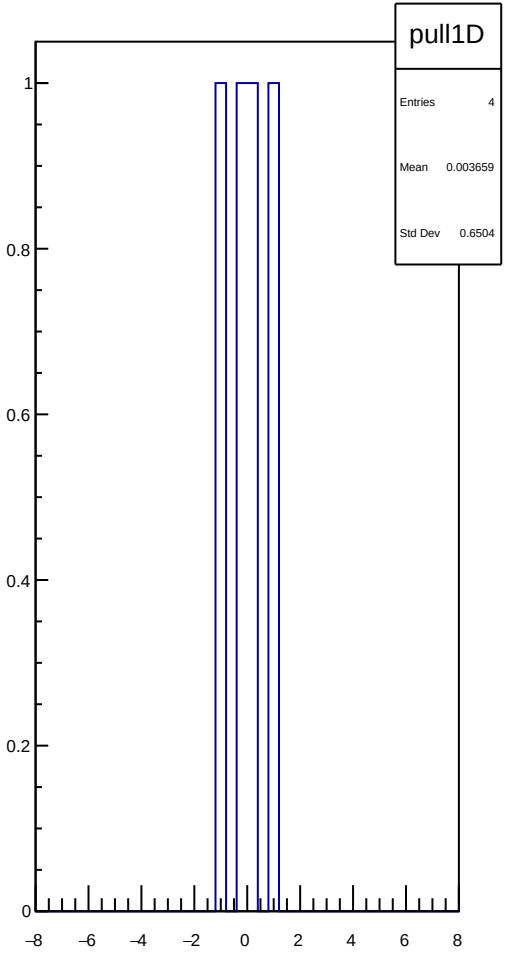

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 1.212 / 3
p0 5233 ± 1.051e+04
120
100
80
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.6315
Std Dev 2.04
1
0.8
0.6
0.4
0.2
0
−0.2

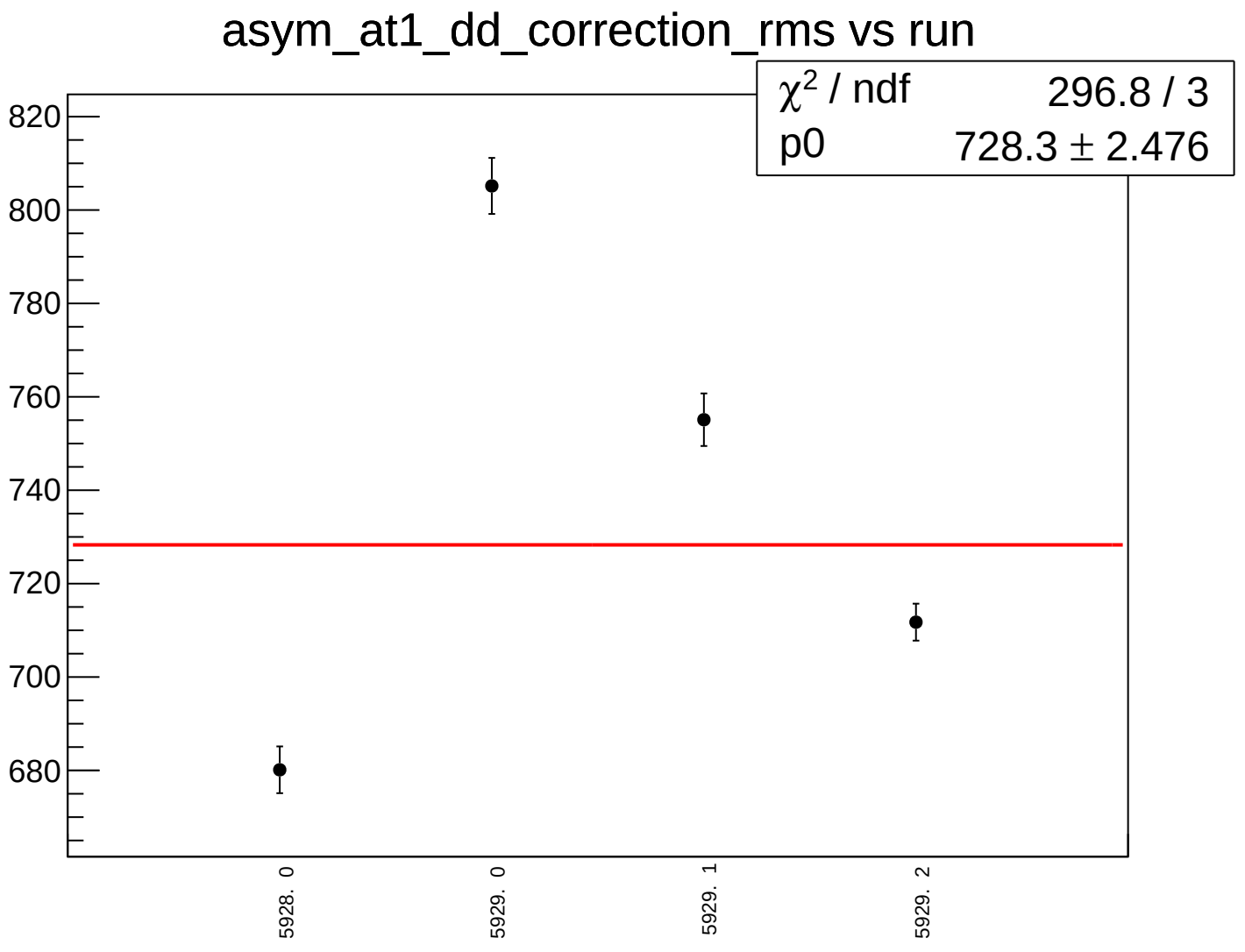

pull1D
Entries 4
Mean 0.184
Std Dev 0.5187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

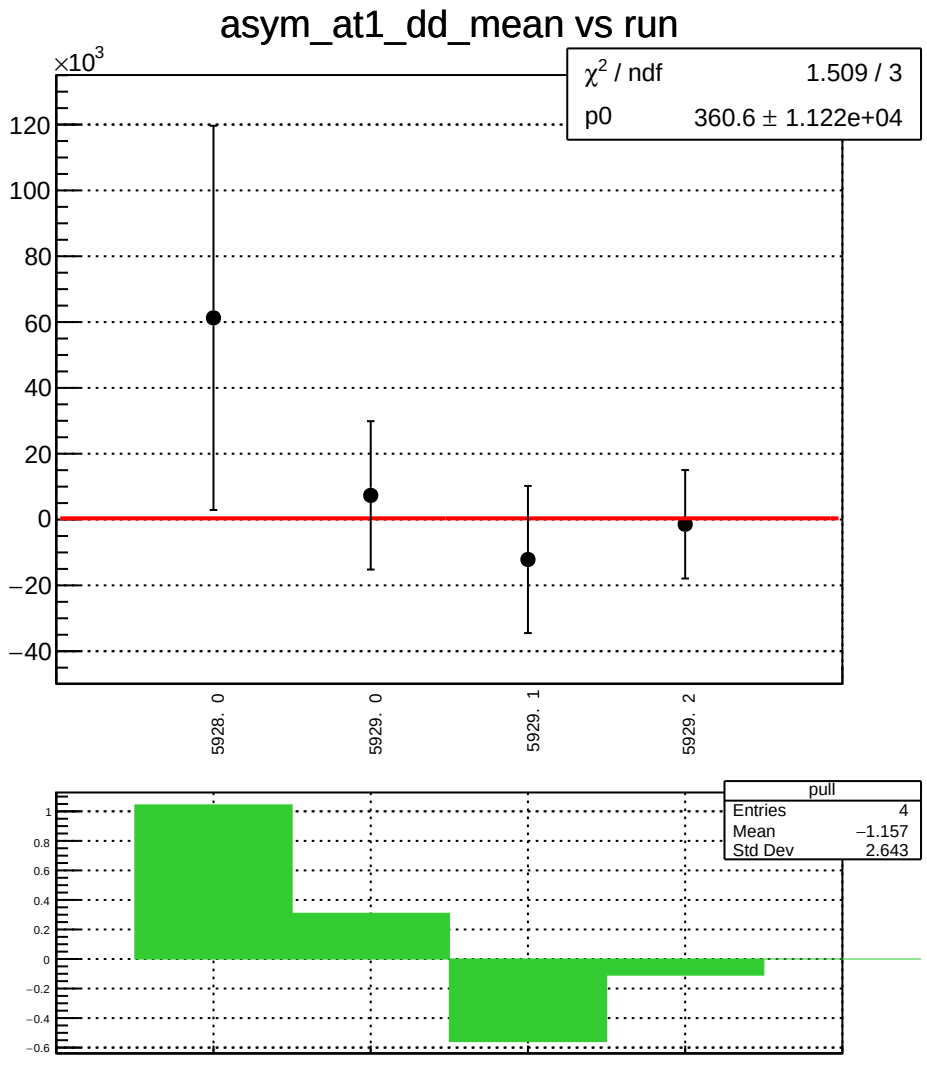

reg_asym_at1_dd_rms vs run
χ² / ndf 7422 / 3
p0 2095 ± 7.435
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

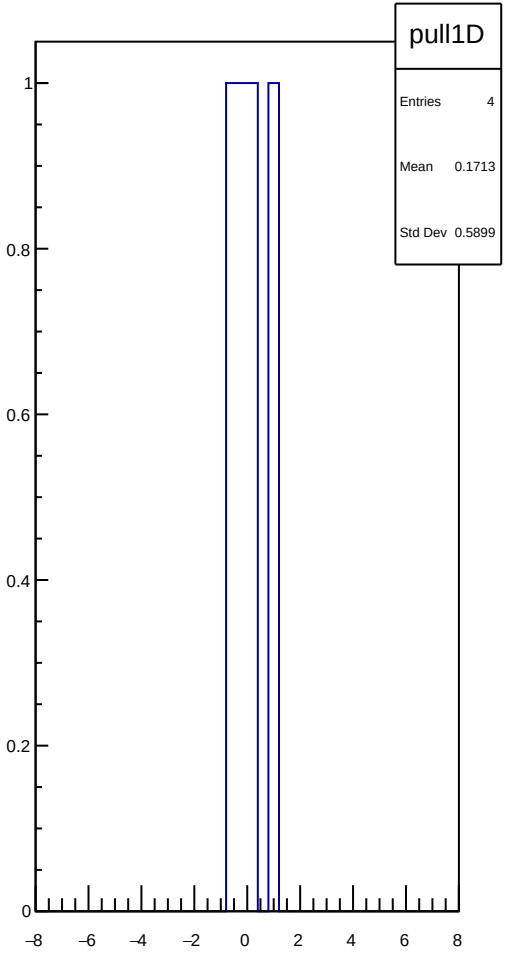

asym_at1_dd_correction_mean vs run
χ² / ndf 1.692 / 3
p0 5433 ± 3501
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

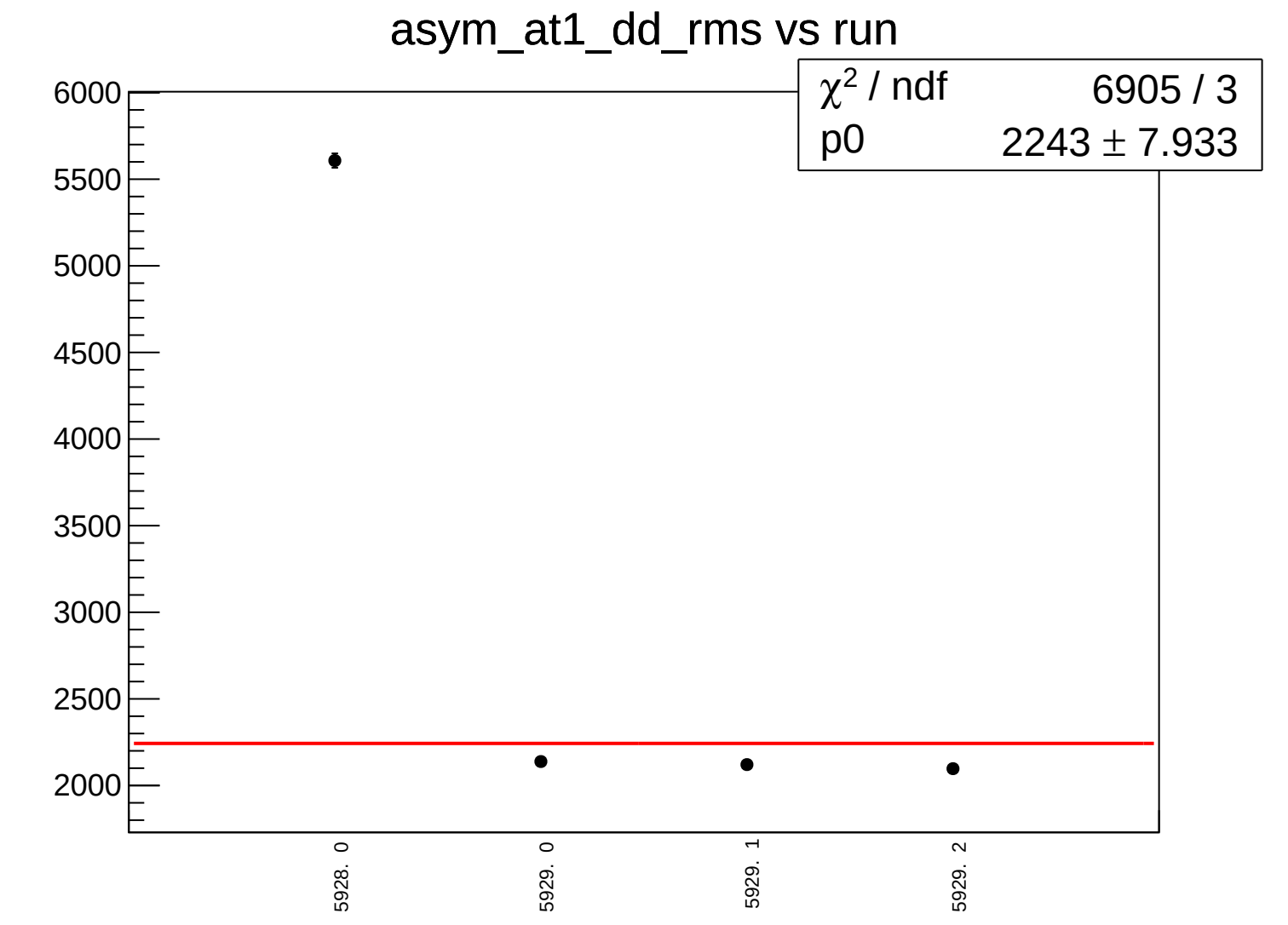

pull
Entries 4
Mean 36.05
Std Dev 34.25
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

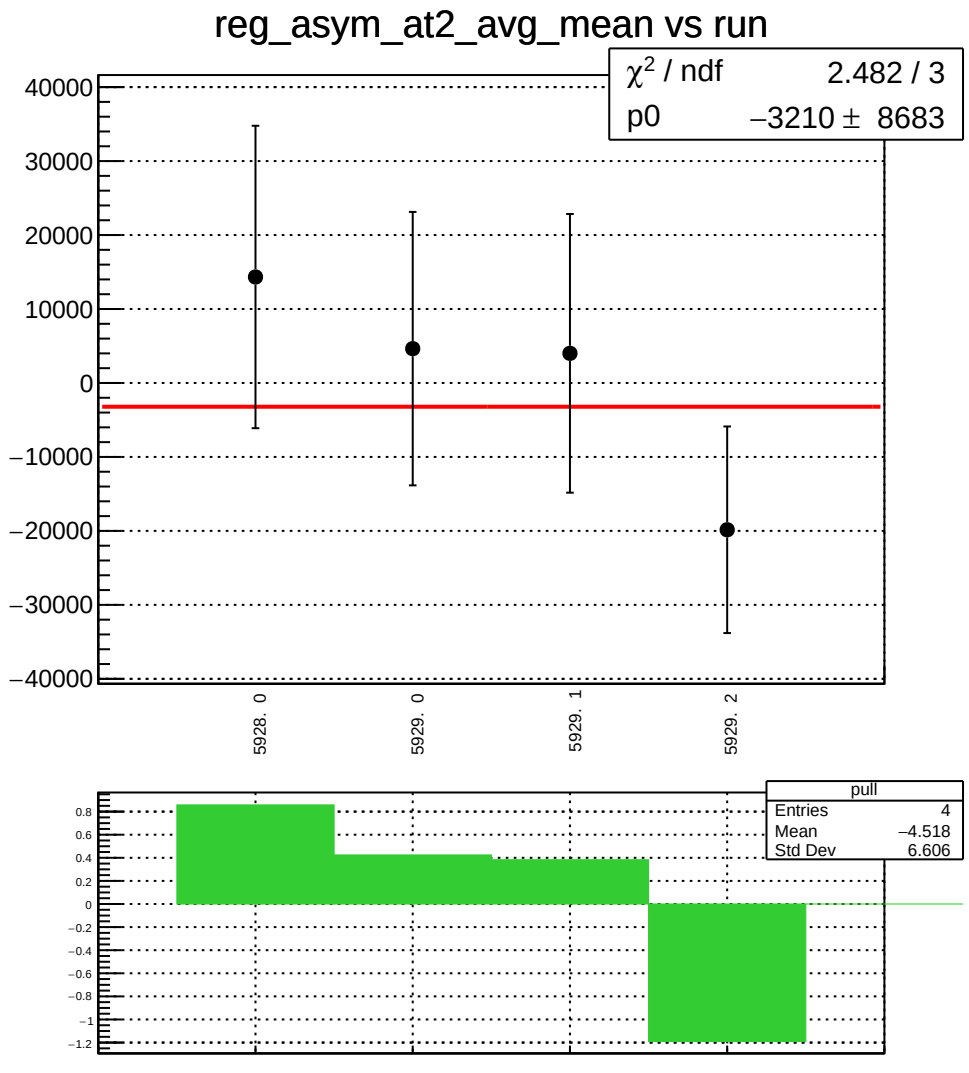

pull1D
Entries 4
Mean 0.003659
Std Dev 0.6504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

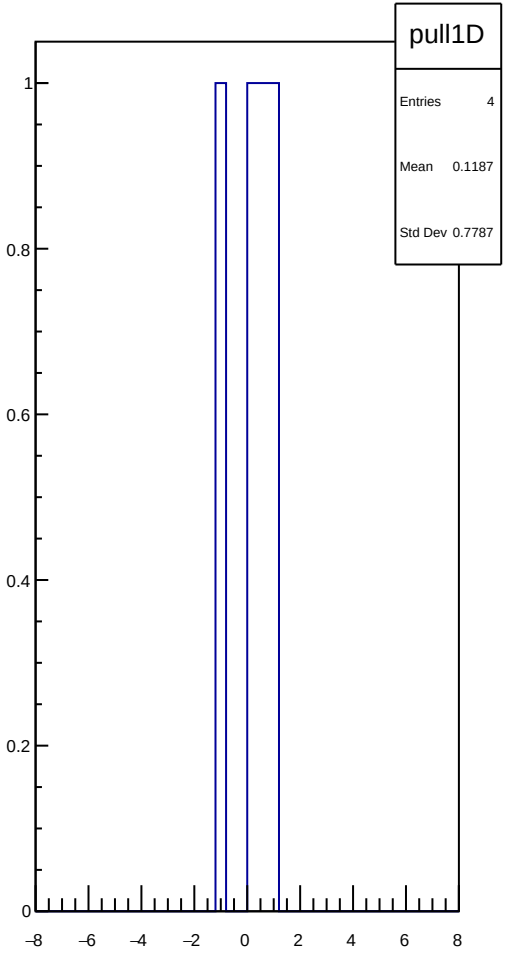

asym_at1_dd_correction_rms vs run
χ² / ndf 296.8 / 3
p0 728.3 ± 2.476
820
800
780
760
740
720
700
680
5928. 0
5929. 0
5929. 1
5929. 2

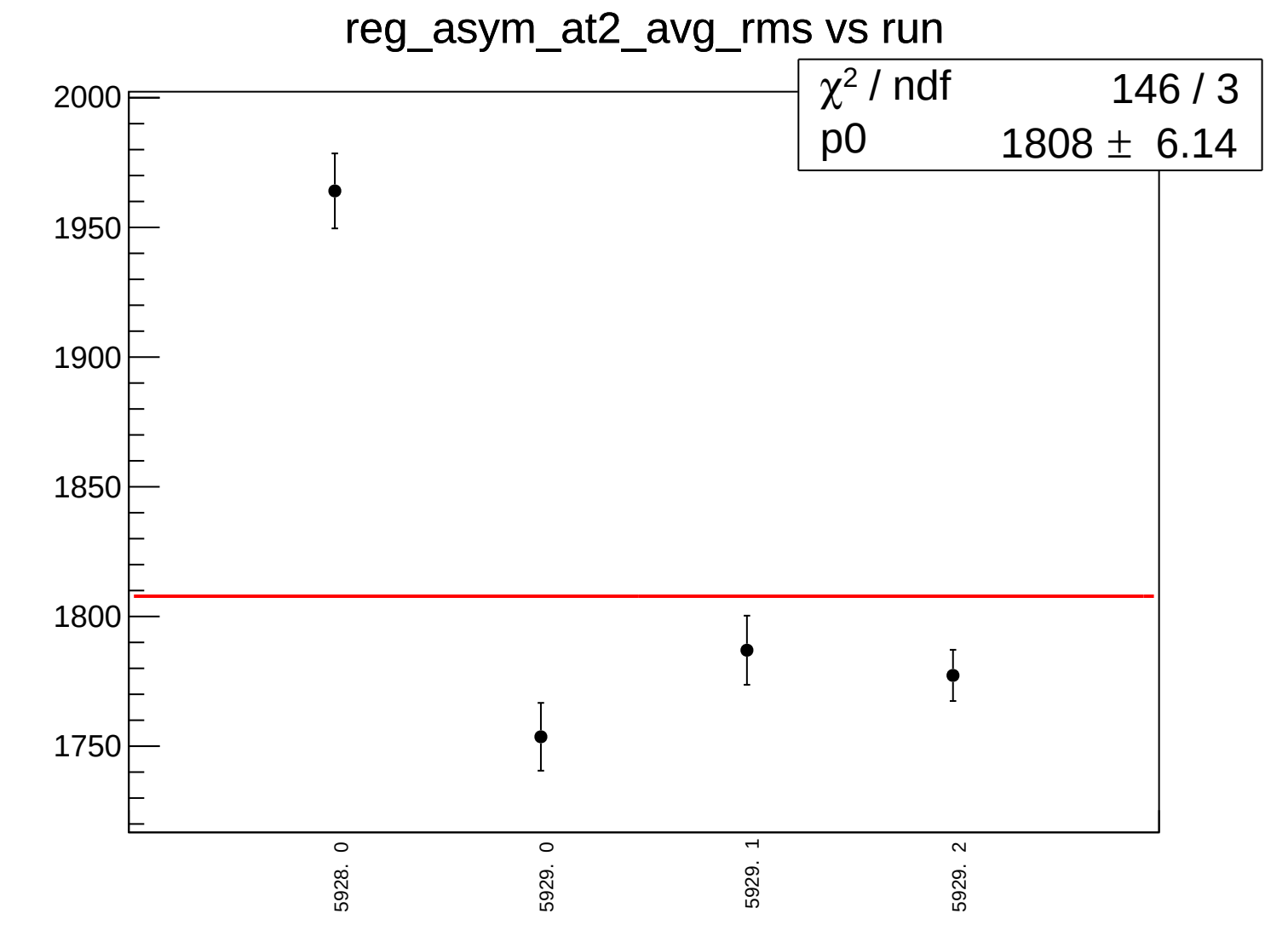

asym_at1_dd_mean vs run
×10^3
χ² / ndf 1.509 / 3
p0 360.6 ± 1.122e+04
120
100
80
60
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.157
Std Dev 2.643
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

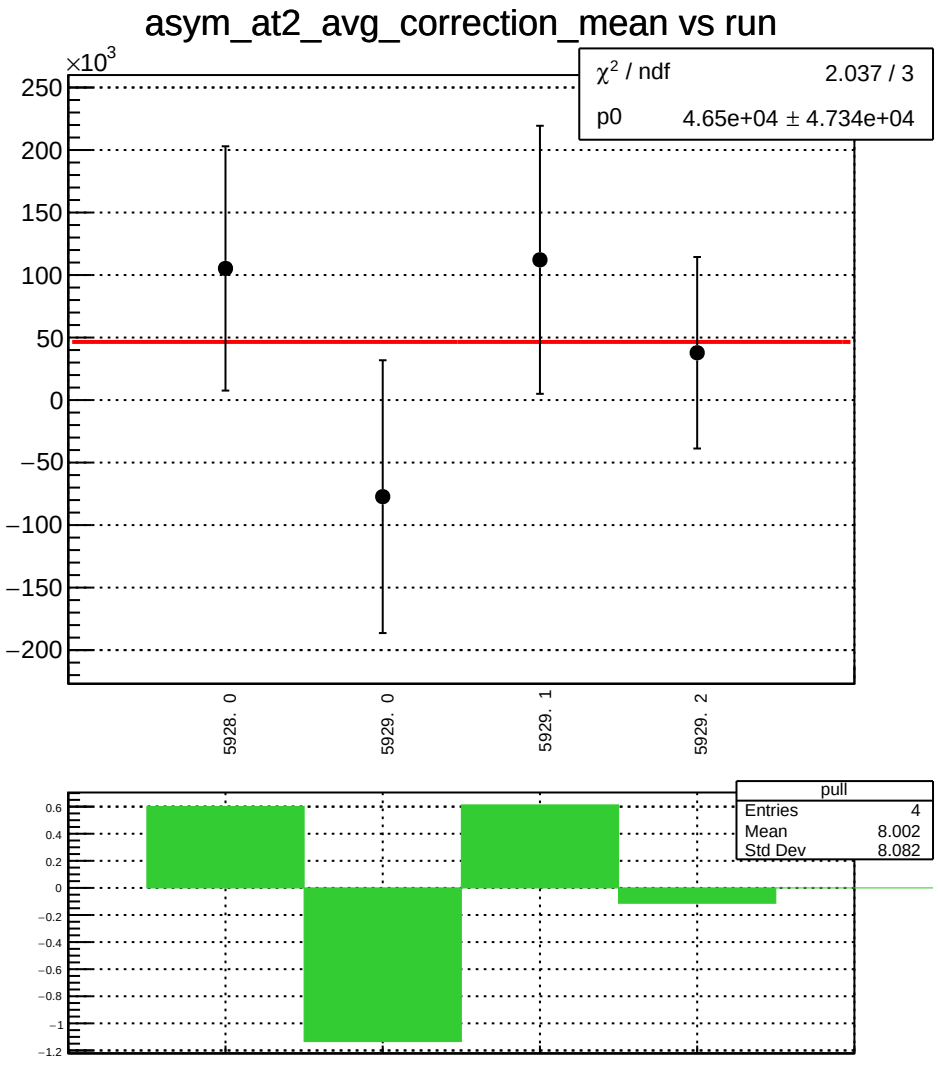

pull1D
Entries 4
Mean 0.1713
Std Dev 0.5899
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

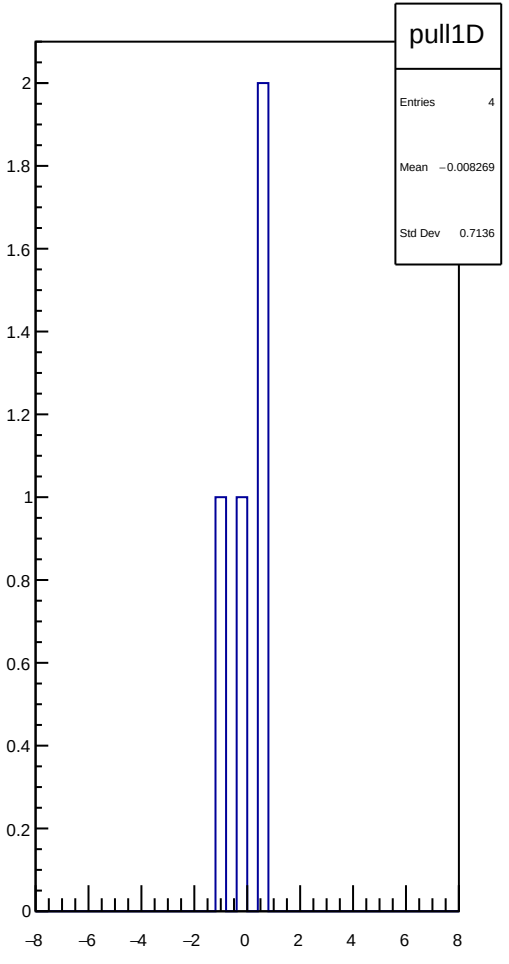

asym_at1_dd_rms vs run
χ² / ndf 6905 / 3
p0 2243 ± 7.933
6000
5500
5000
4500
4000
3500
3000
2500
2000
5928. 0
5929. 0
5929. 1
5929. 2

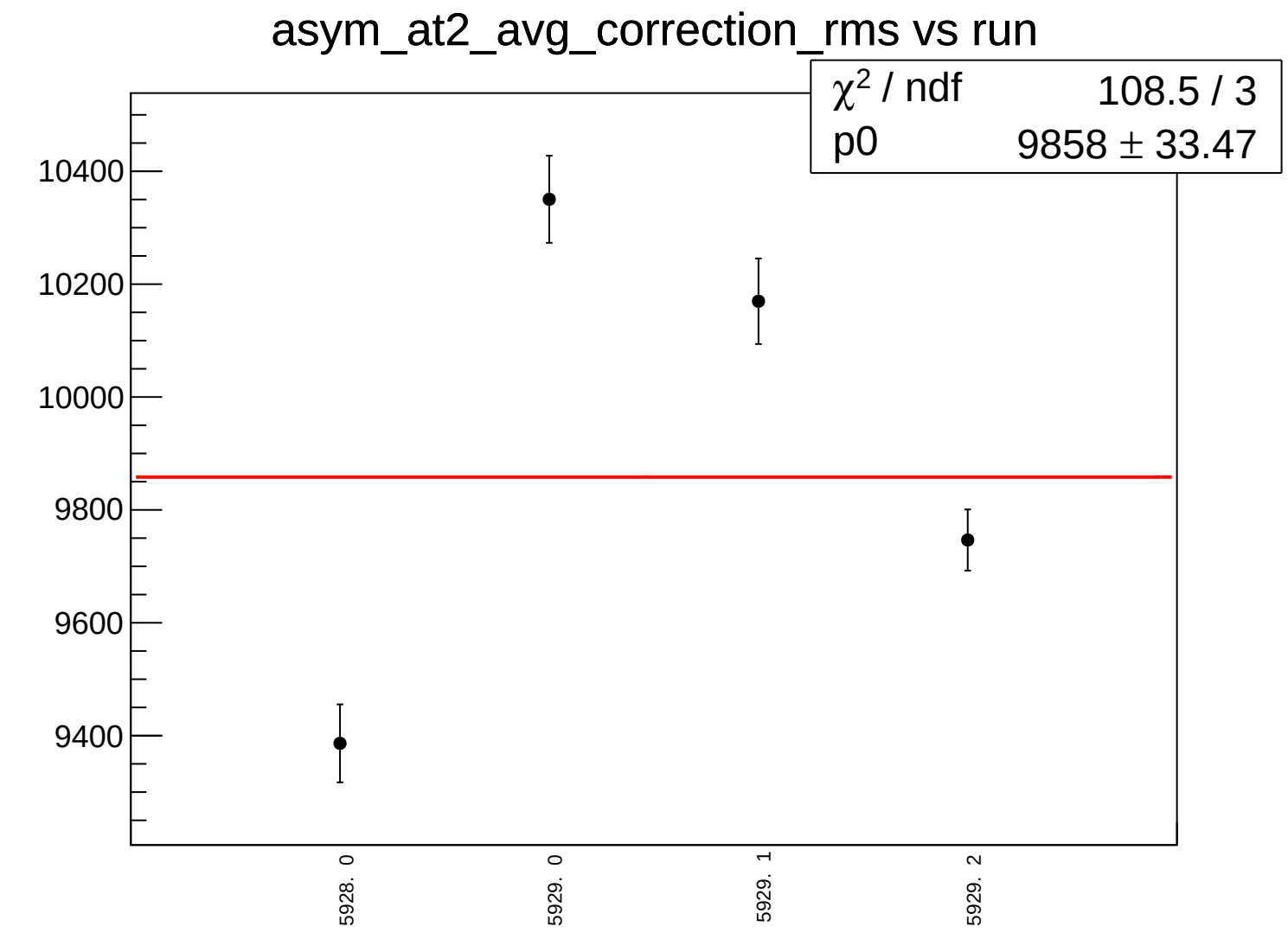

reg_asym_at2_avg_mean vs run
χ² / ndf 2.482 / 3
p0 −3210 ± 8683
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.518
Std Dev 6.606
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

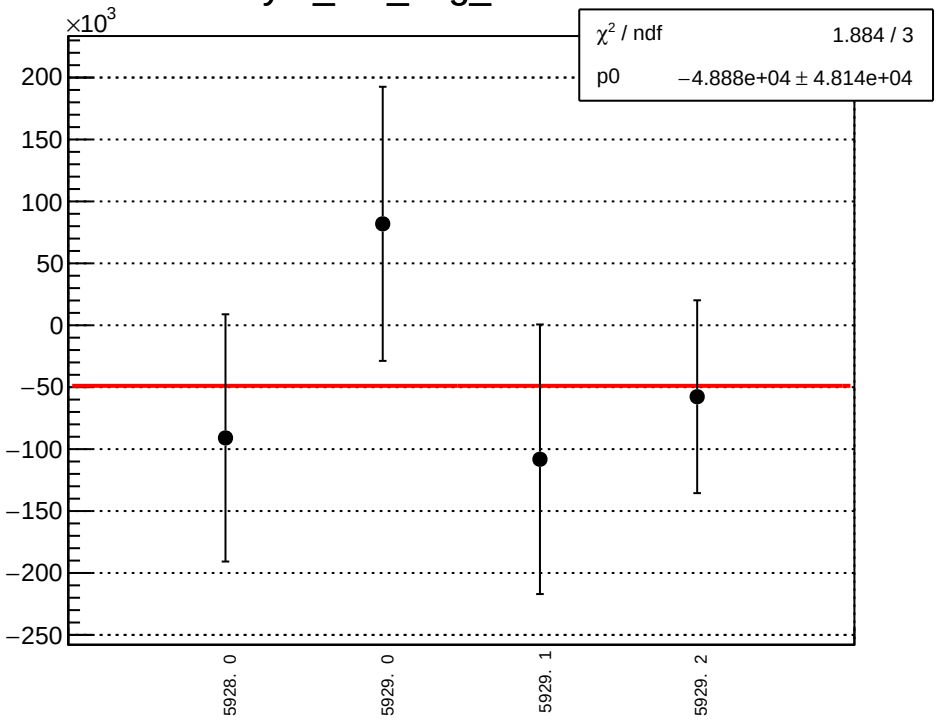

pull1D
Entries 4
Mean 0.1187
Std Dev 0.7787
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

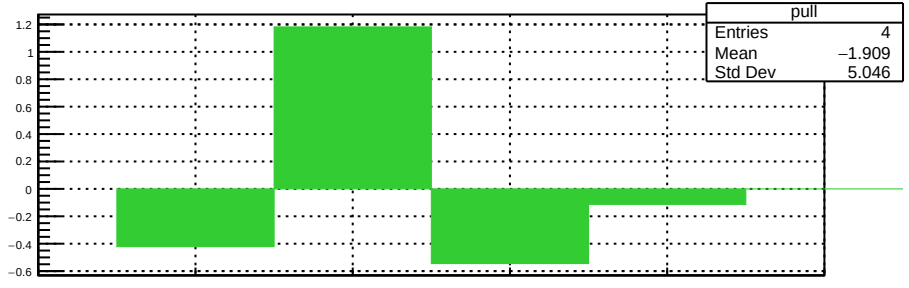

reg_asym_at2_avg_rms vs run
χ² / ndf 146 / 3
p0 1808 ± 6.14
2000
1950
1900
1850
1800
1750
5928. 0
5929. 0
5929. 1
5929. 2

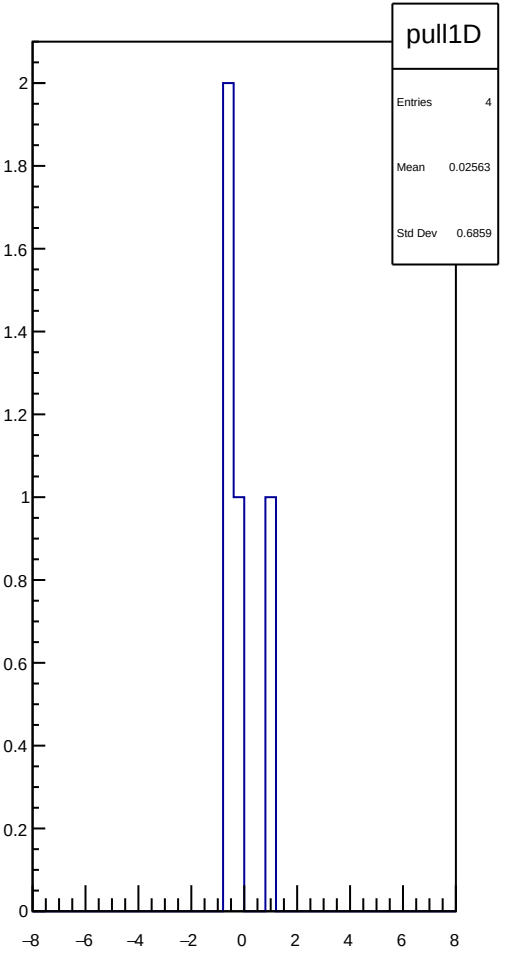

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 2.037 / 3
p0 4.65e+04 ± 4.734e+04
250
200
150
100
50
0
−50
−100
−150
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.002
Std Dev 8.082
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

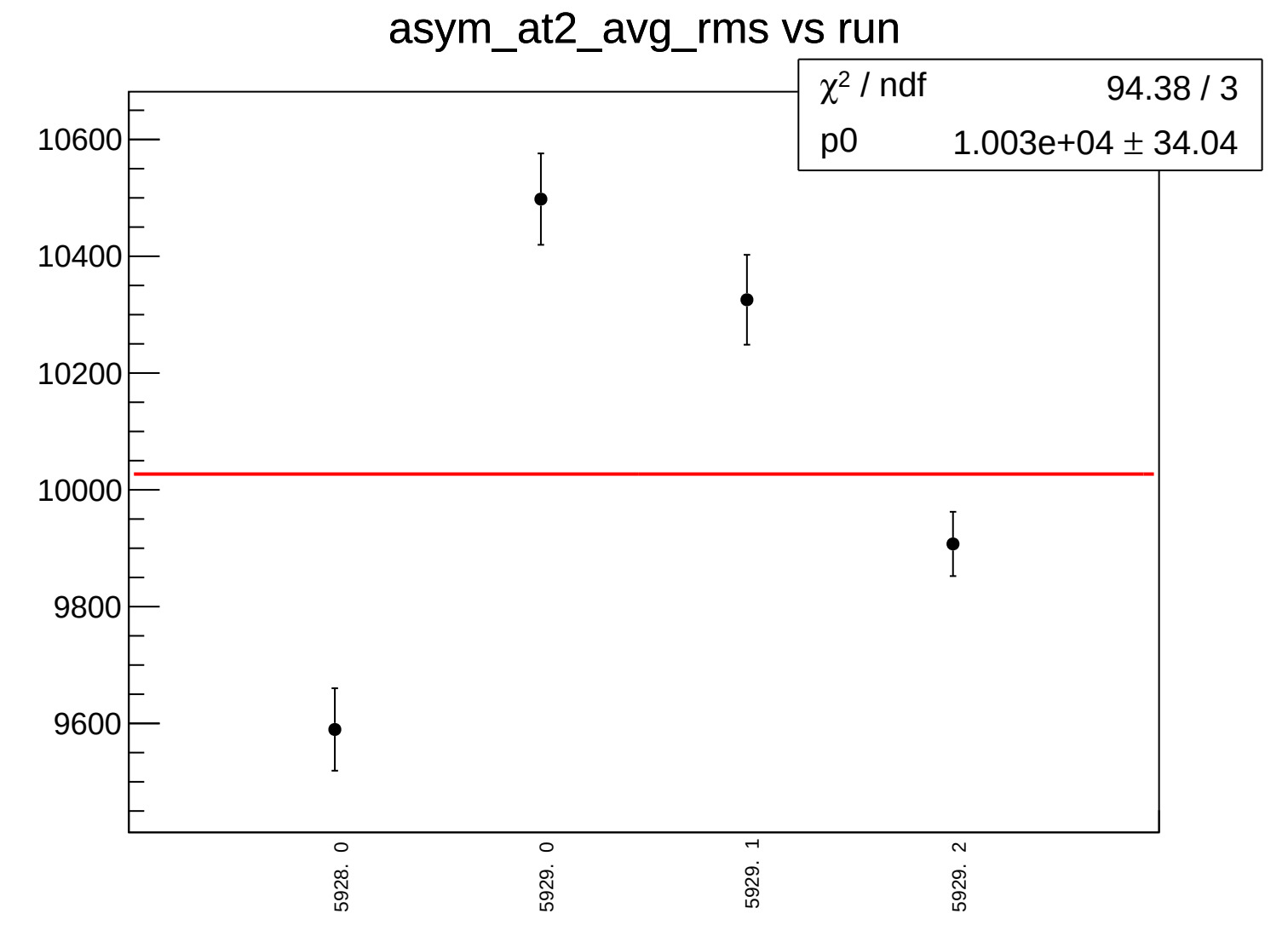

pull1D
Entries 4
Mean −0.008269
Std Dev 0.7136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

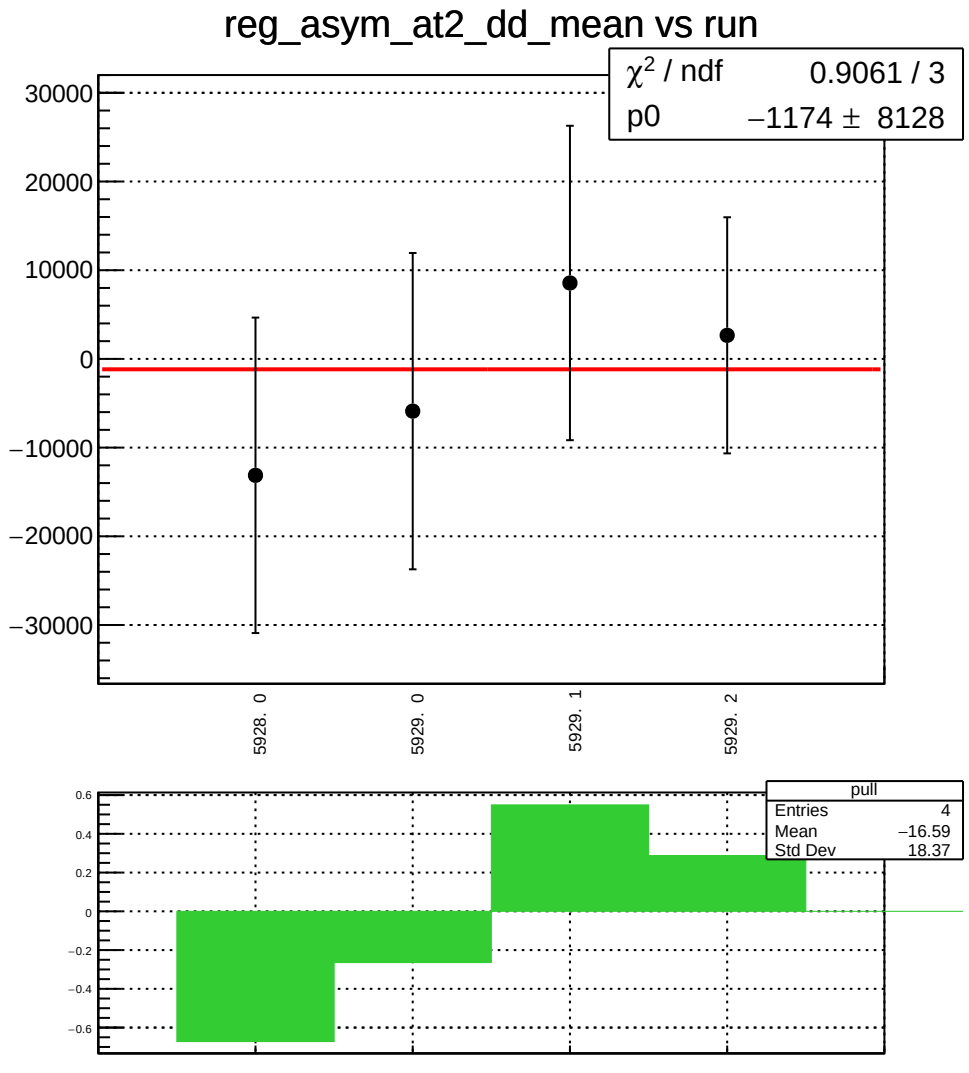

asym_at2_avg_correction_rms vs run
χ² / ndf 108.5 / 3
p0 9858 ± 33.47
10400
10200
10000
9800
9600
9400
5928. 0
5929. 0
5929. 1
5929. 2

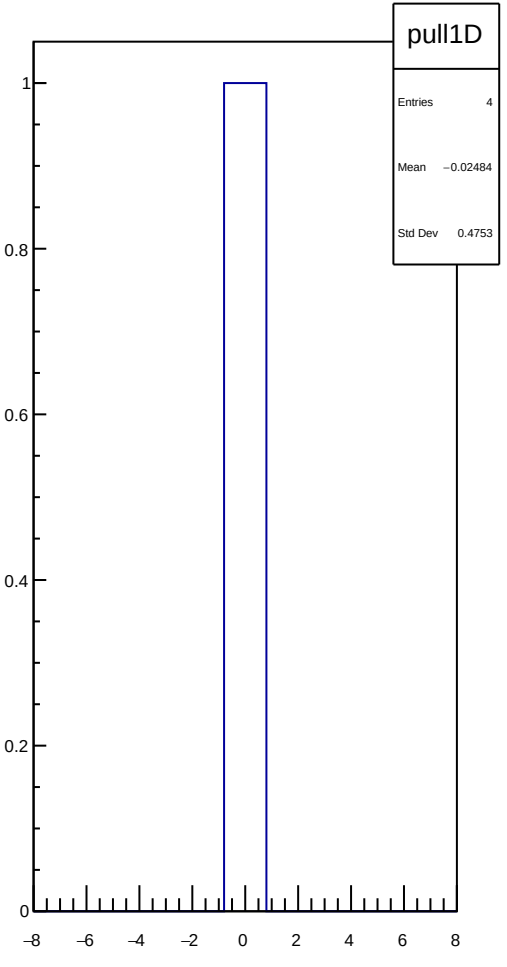

asym_at2_avg_mean vs run
×10^3
χ² / ndf 1.884 / 3
p0 −4.888e+04 ± 4.814e+04
200
150
100
50
0
−50
−100
−150
−200
−250
5928. 0
5929. 0
5929. 1
5929. 2

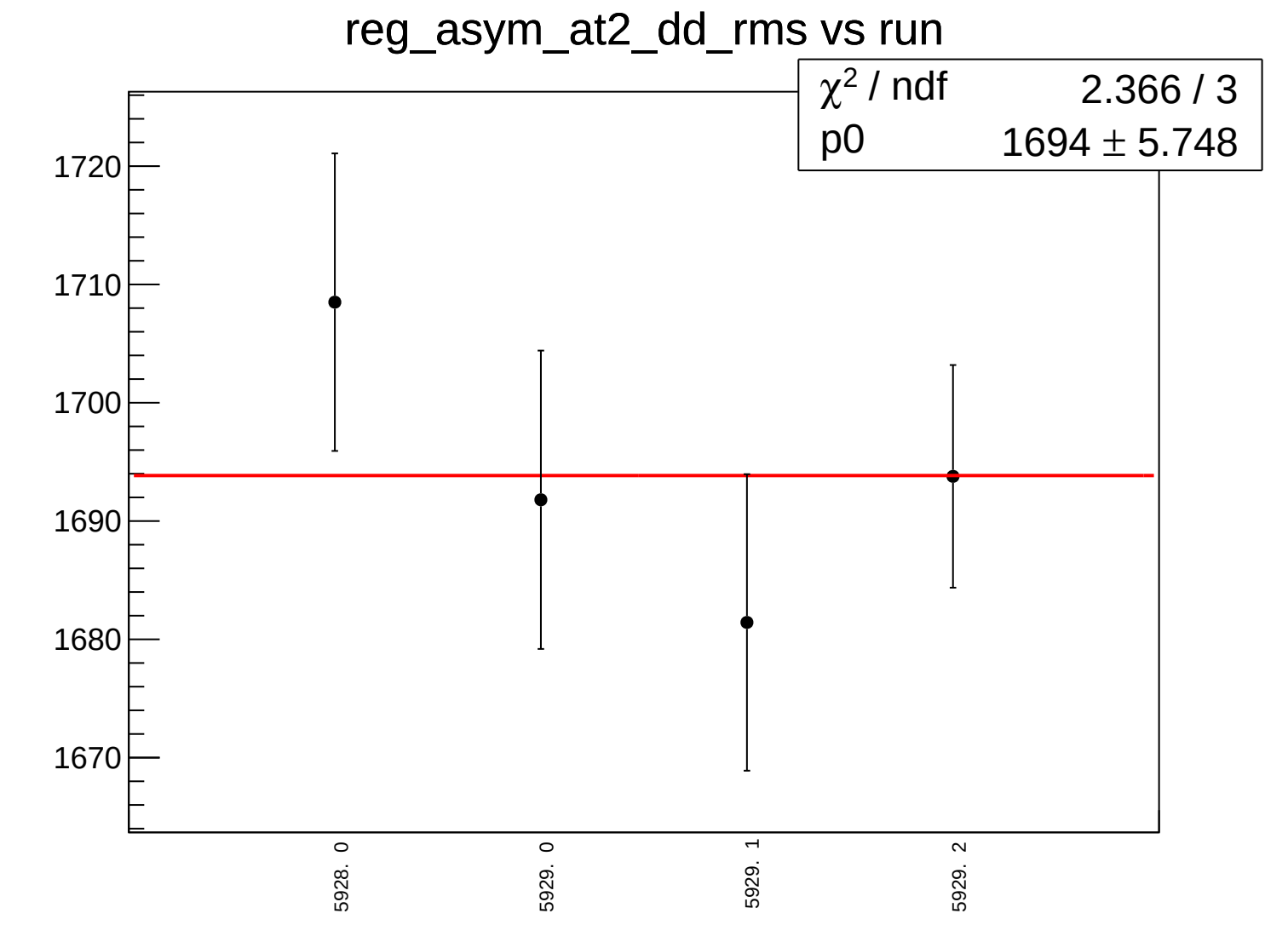

pull
Entries 4
Mean −1.909
Std Dev 5.046
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

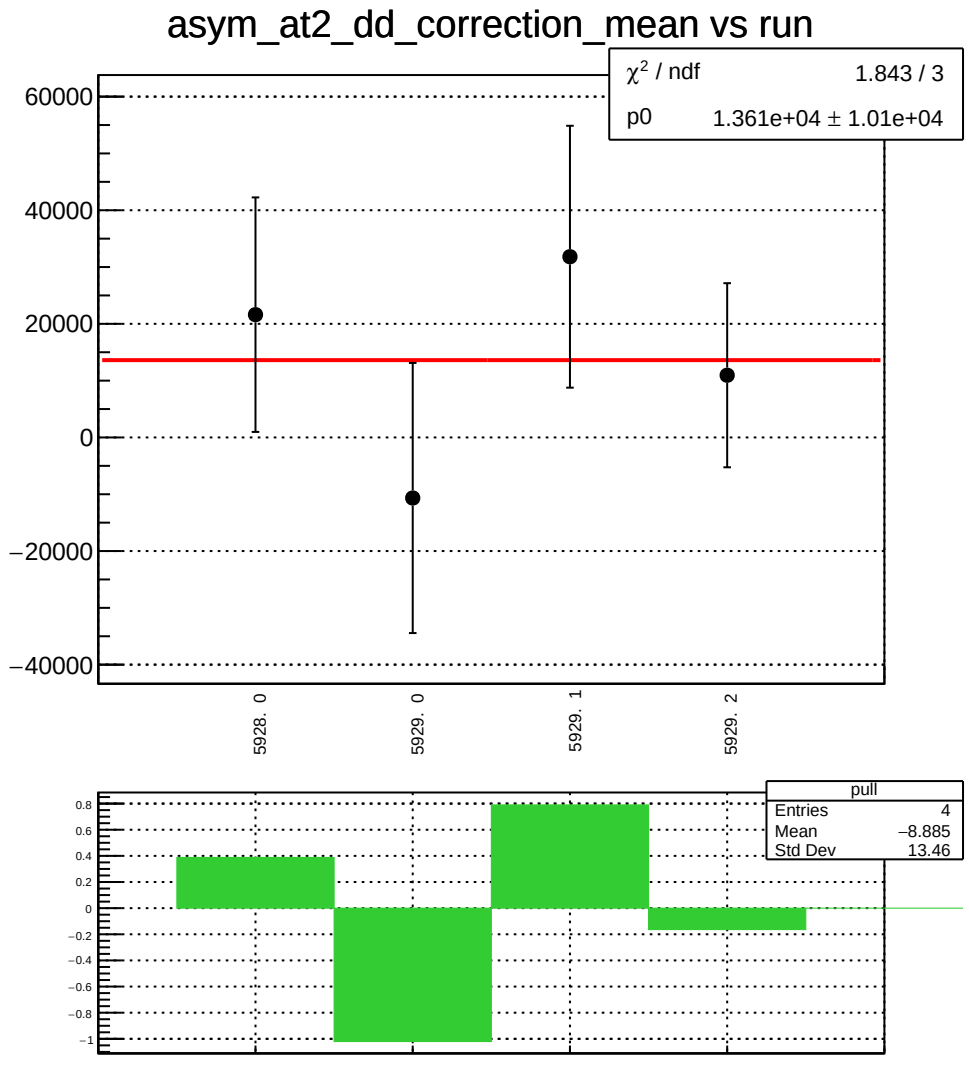

pull1D
Entries 4
Mean 0.02563
Std Dev 0.6859
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

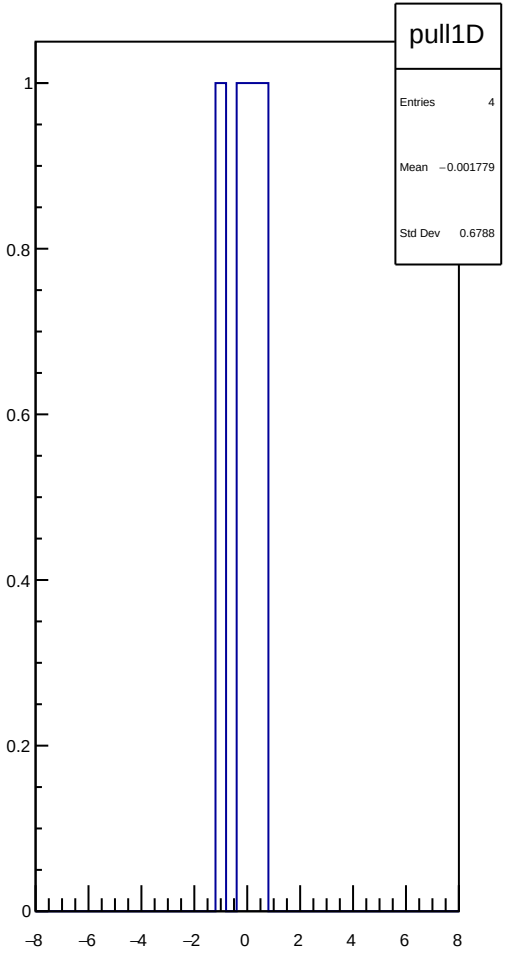

asym_at2_avg_rms vs run
χ² / ndf 94.38 / 3
p0 1.003e+04 ± 34.04
10600
10400
10200
10000
9800
9600
5928. 0
5929. 0
5929. 1
5929. 2

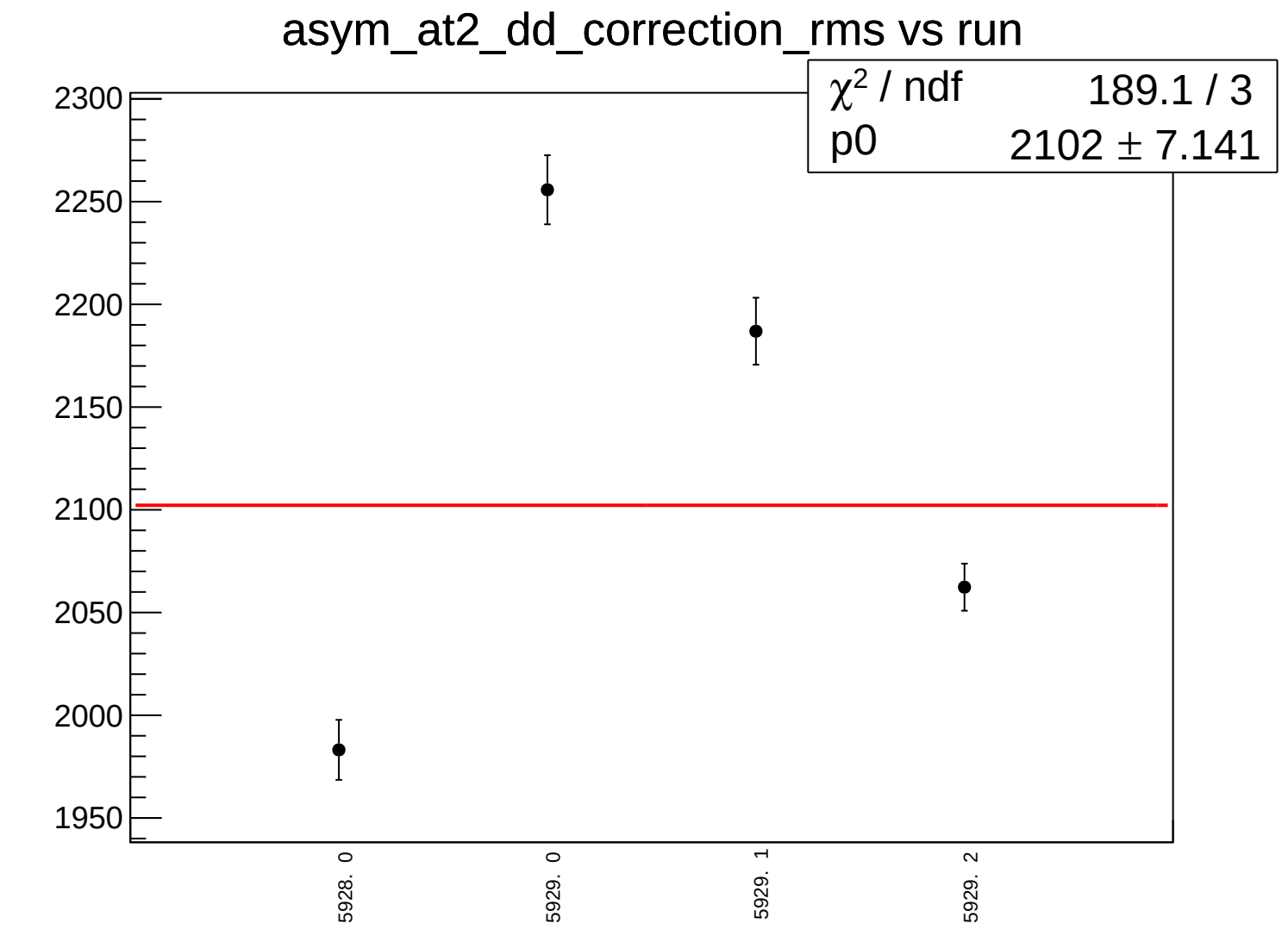

reg_asym_at2_dd_mean vs run
χ² / ndf 0.9061 / 3
p0 −1174 ± 8128
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −16.59
Std Dev 18.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

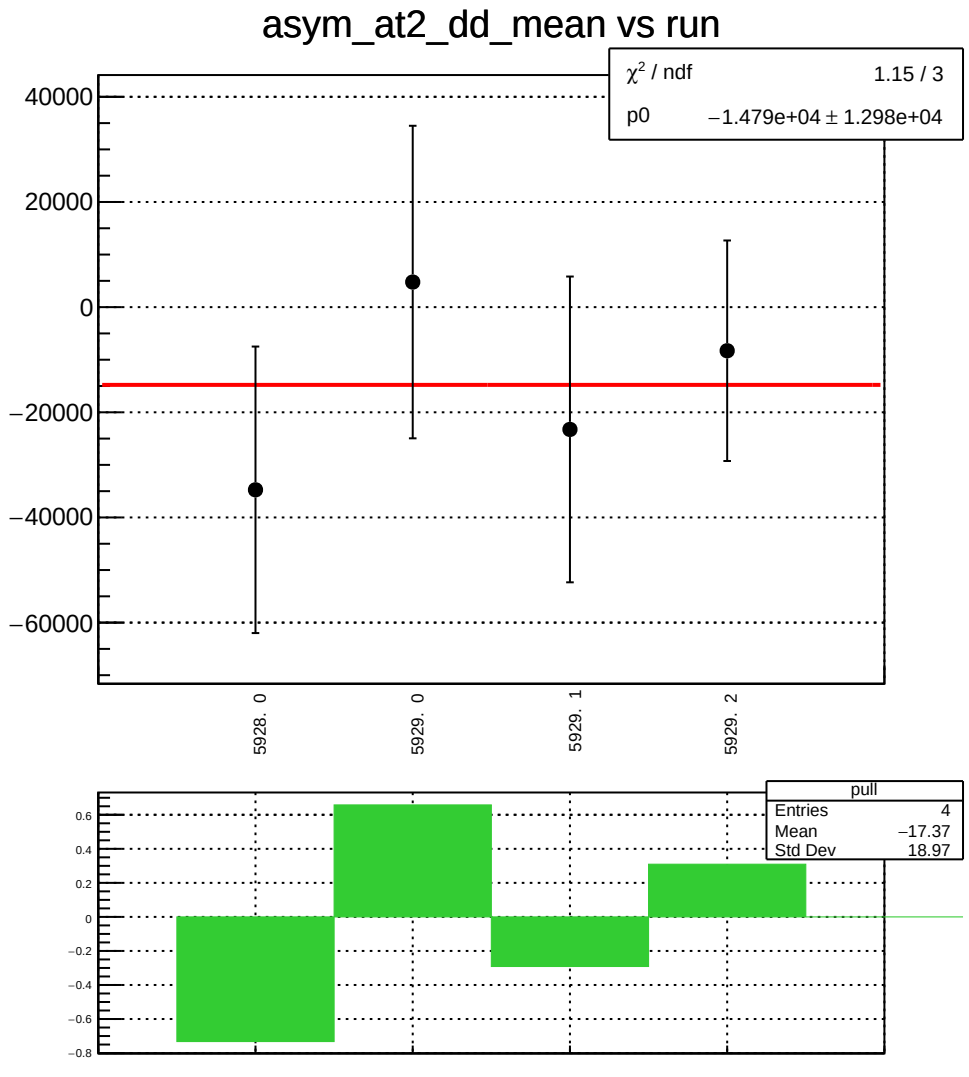

pull1D
Entries 4
Mean −0.02484
Std Dev 0.4753
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

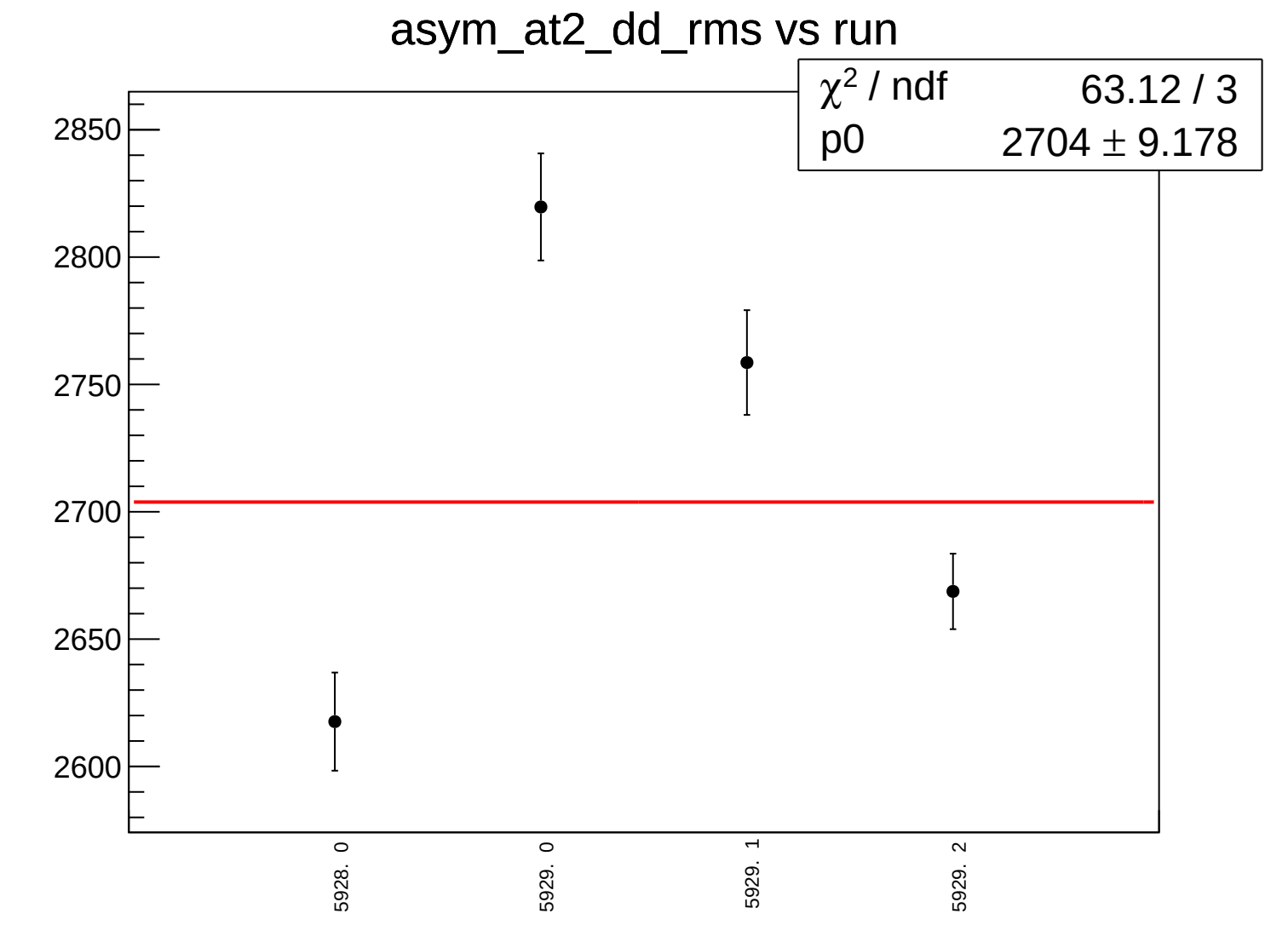

reg_asym_at2_dd_rms vs run
χ² / ndf 2.366 / 3
p0 1694 ± 5.748
1720
1710
1700
1690
1680
1670
5928. 0
5929. 0
5929. 1
5929. 2

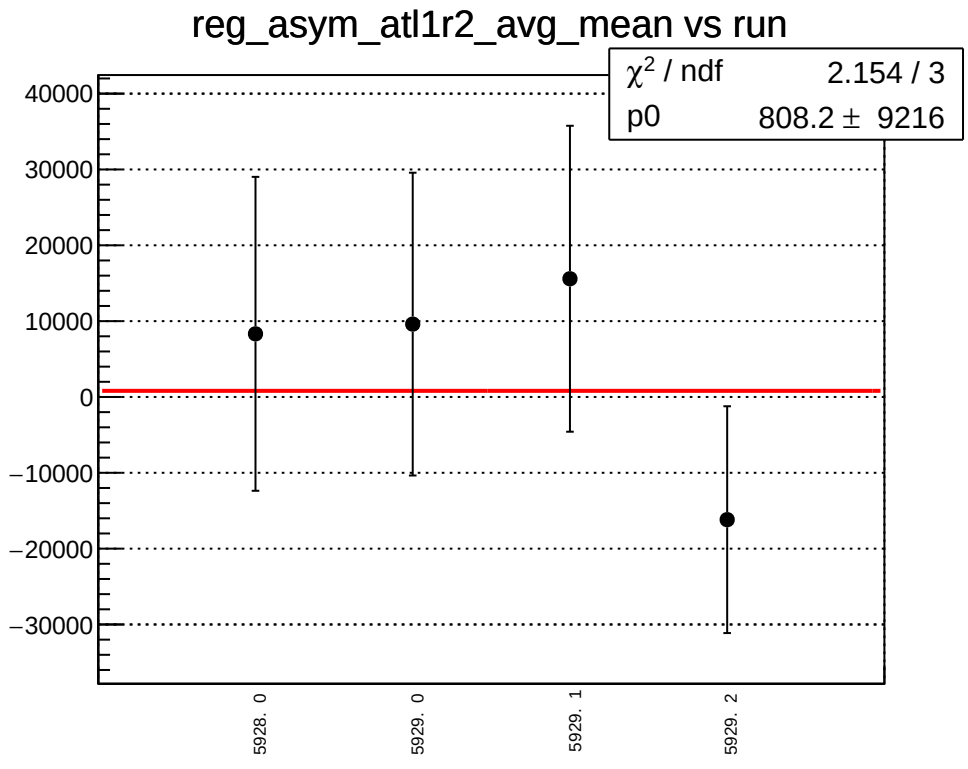

asym_at2_dd_correction_mean vs run
χ² / ndf 1.843 / 3
p0 1.361e+04 ± 1.01e+04
60000
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −8.885
Std Dev 13.46
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

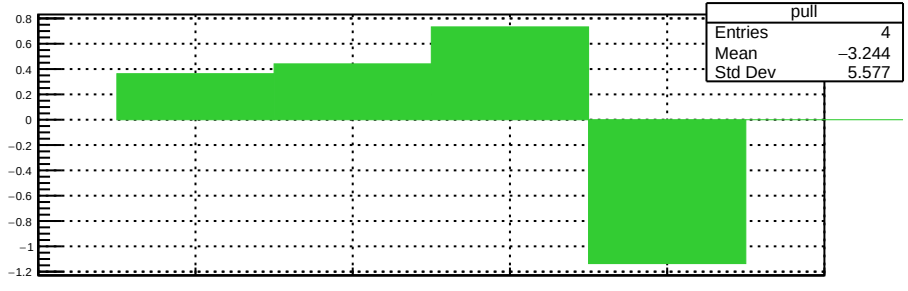

pull1D
Entries 4
Mean −0.001779
Std Dev 0.6788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

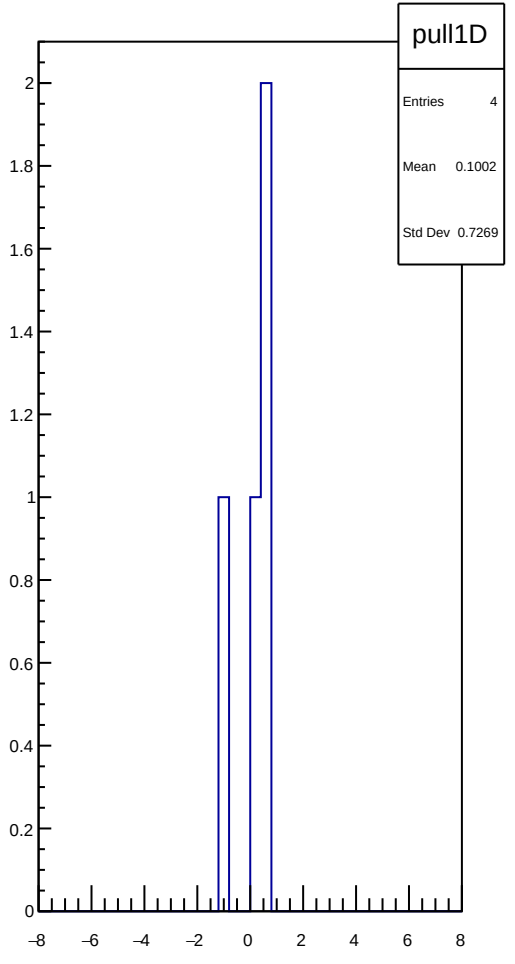

asym_at2_dd_correction_rms vs run
χ² / ndf 189.1 / 3
p0 2102 ± 7.141
2300
2250
2200
2150
2100
2050
2000
1950
5928. 0
5929. 0
5929. 1
5929. 2

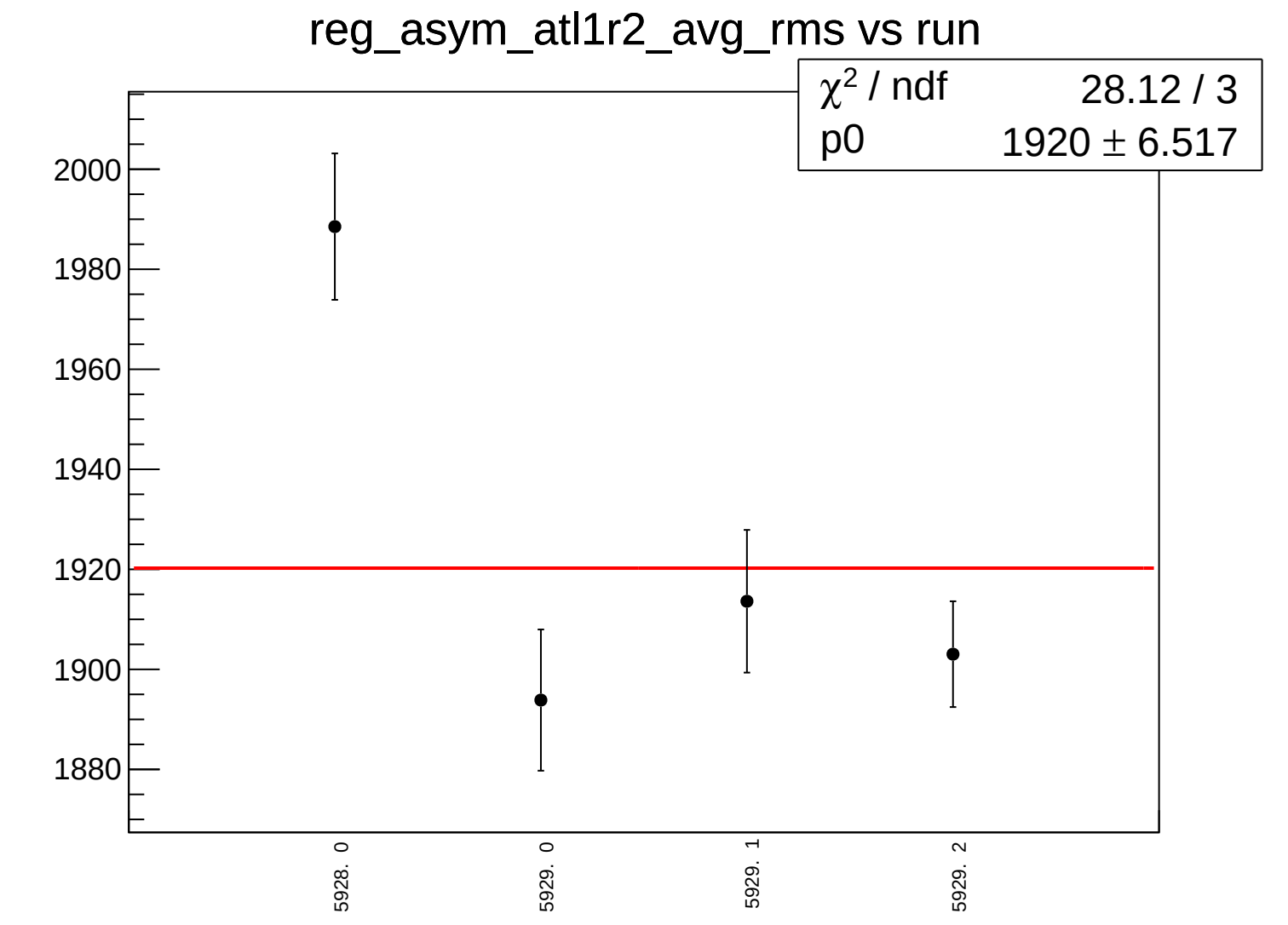

asym_at2_dd_mean vs run
χ² / ndf 1.15 / 3
p0 −1.479e+04 ± 1.298e+04
40000
20000
0
−20000
−40000
−60000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −17.37
Std Dev 18.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.01405
Std Dev 0.536
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

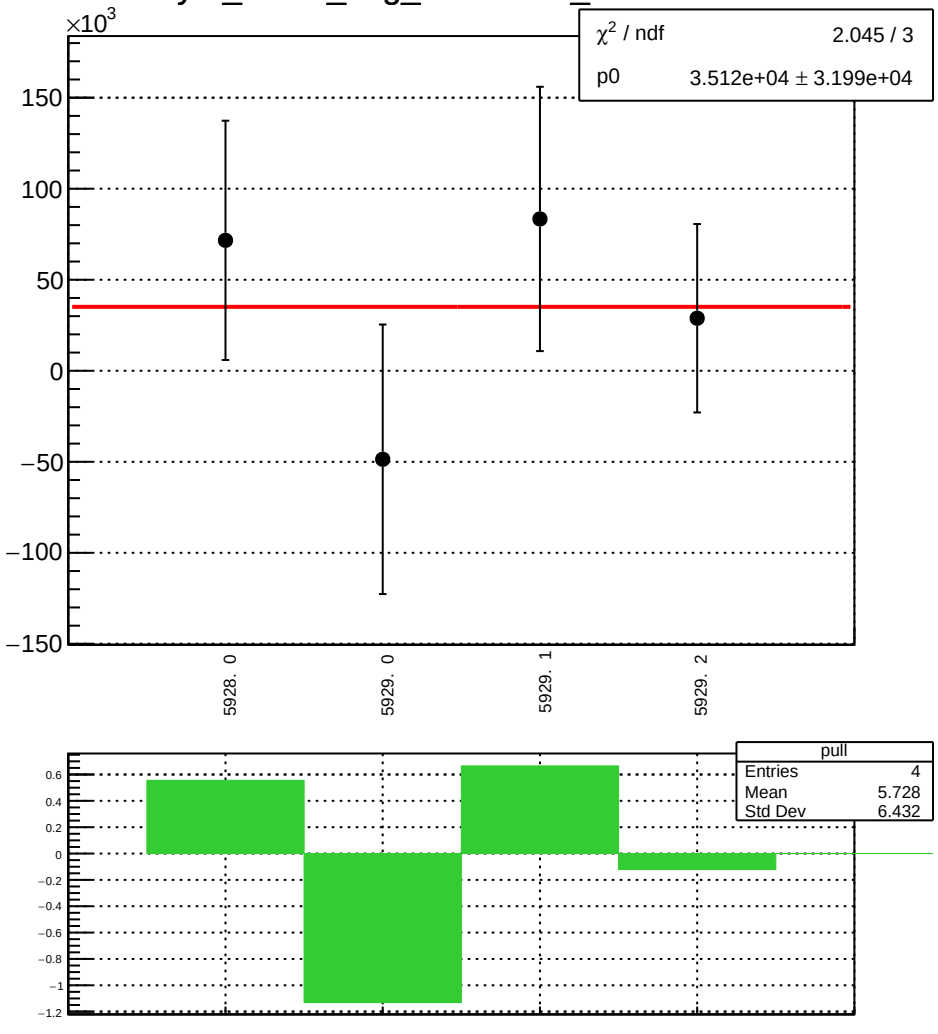

asym_at2_dd_rms vs run
χ² / ndf 63.12 / 3
p0 2704 ± 9.178
2850
2800
2750
2700
2650
2600
5928. 0
5929. 0
5929. 1
5929. 2

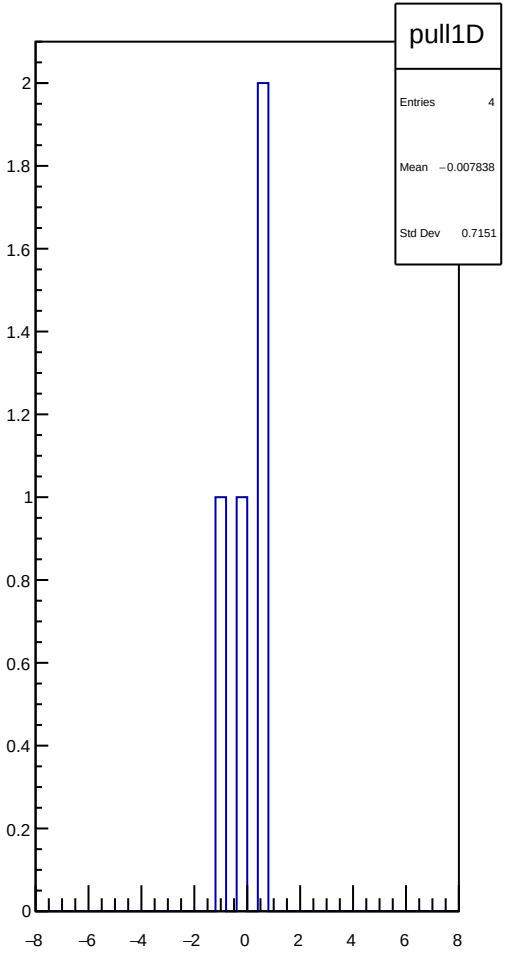

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 2.154 / 3
p0 808.2 ± 9216
40000
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2

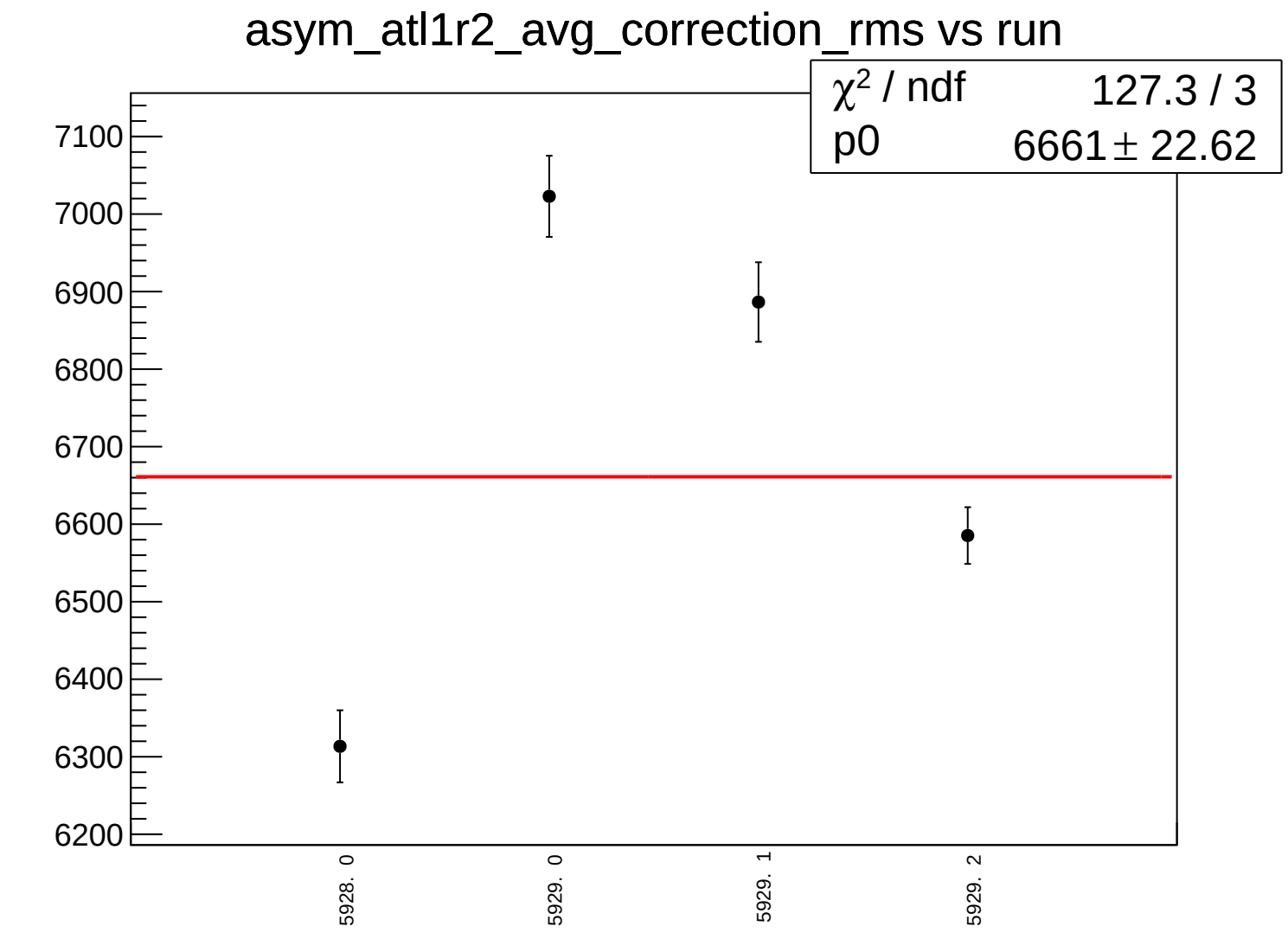

pull
Entries 4
Mean −3.244
Std Dev 5.577
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

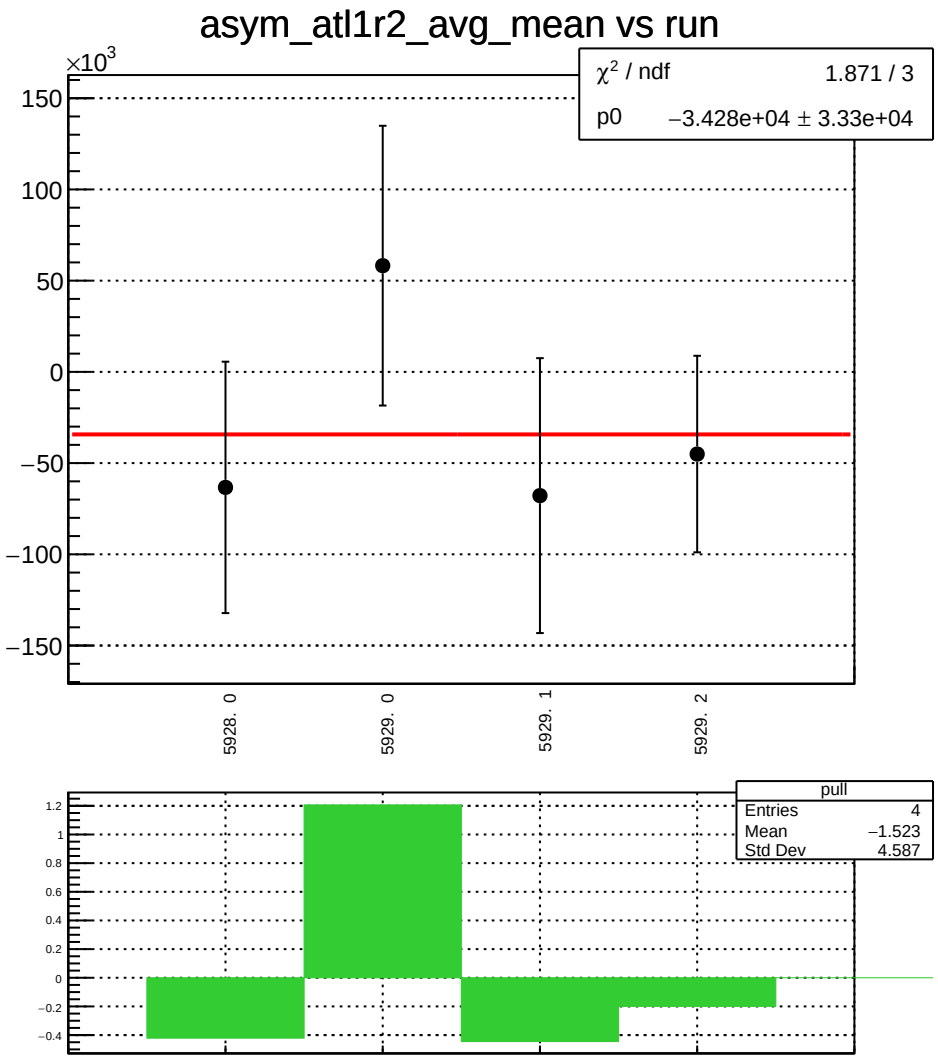

pull1D
Entries 4
Mean 0.1002
Std Dev 0.7269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

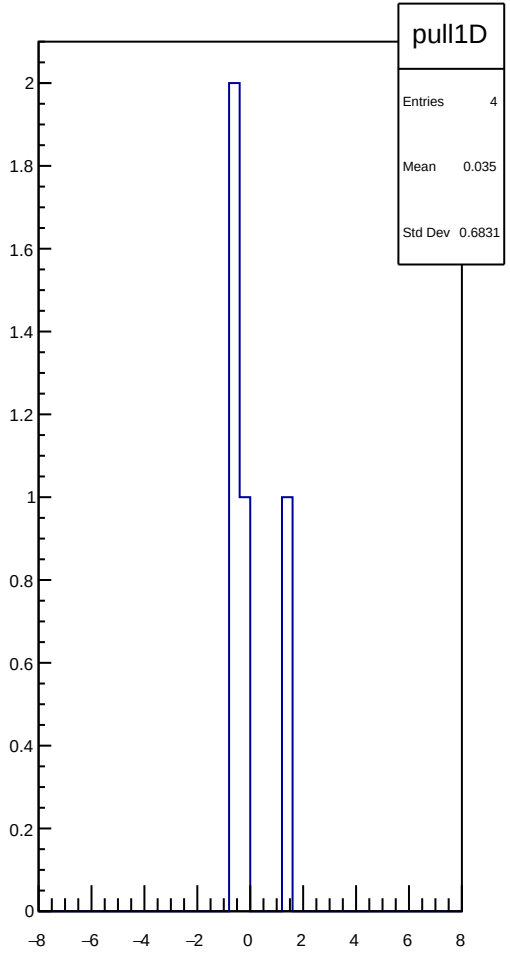

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 28.12 / 3
p0 1920 ± 6.517
2000
1980
1960
1940
1920
1900
1880
5928. 0
5929. 0
5929. 1
5929. 2

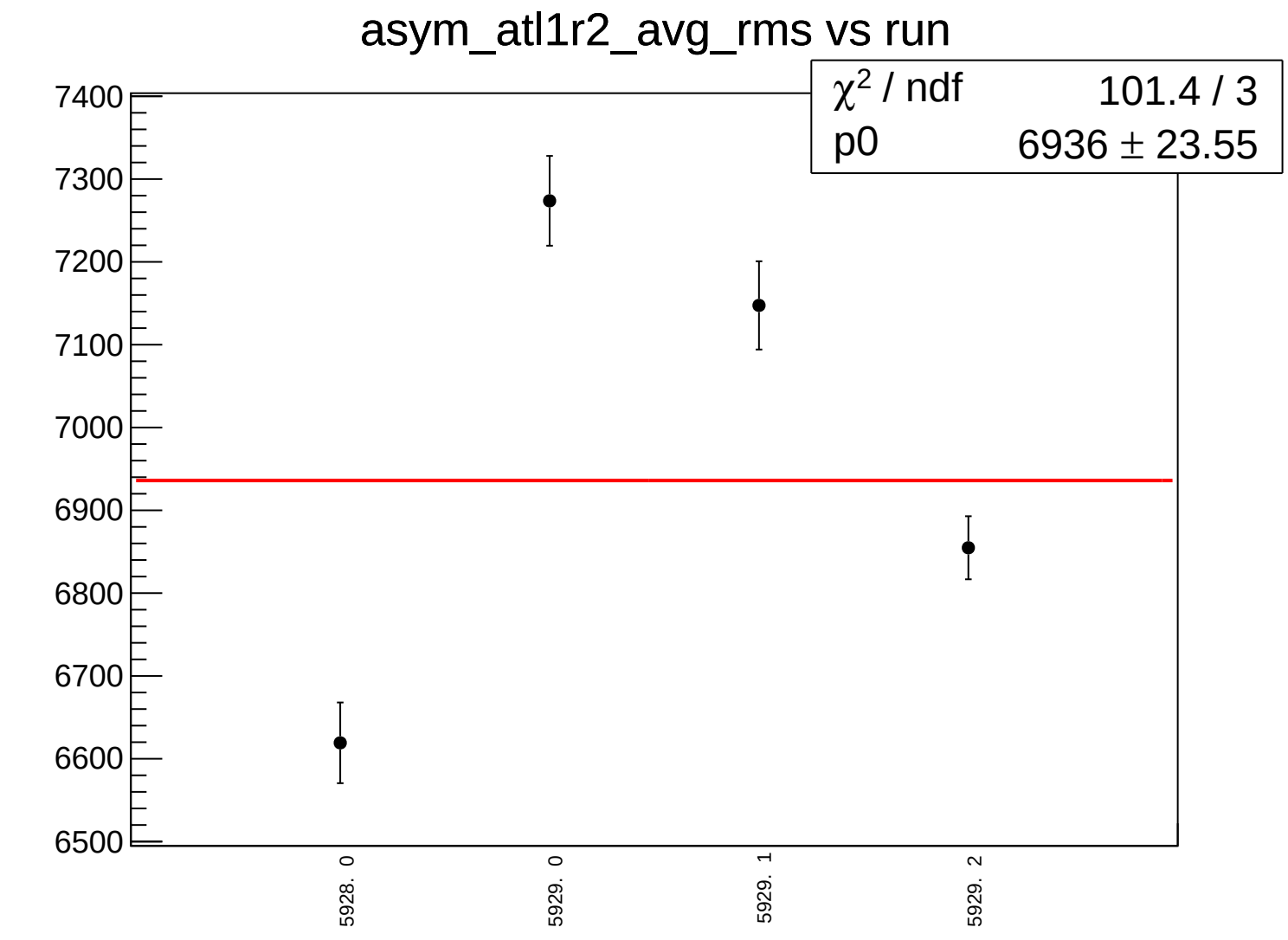

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 2.045 / 3
p0 3.512e+04 ± 3.199e+04
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.728
Std Dev 6.432
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

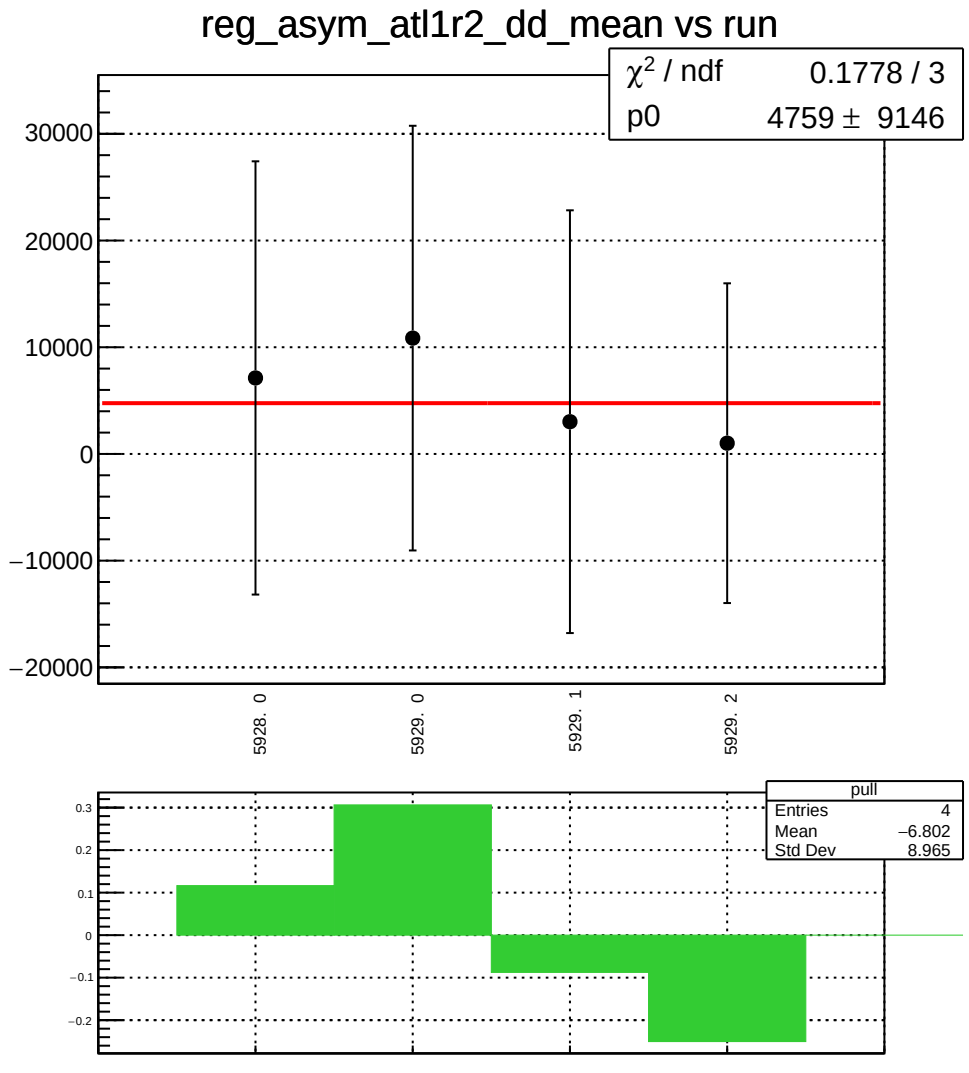

pull1D
Entries 4
Mean −0.007838
Std Dev 0.7151
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

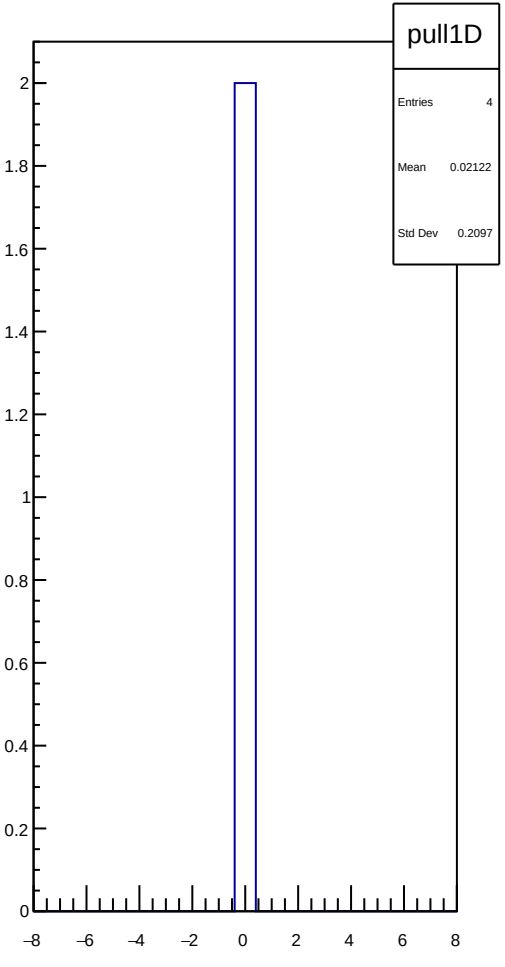

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 127.3 / 3
p0 6661 ± 22.62
7100
7000
6900
6800
6700
6600
6500
6400
6300
6200
5928. 0
5929. 0
5929. 1
5929. 2

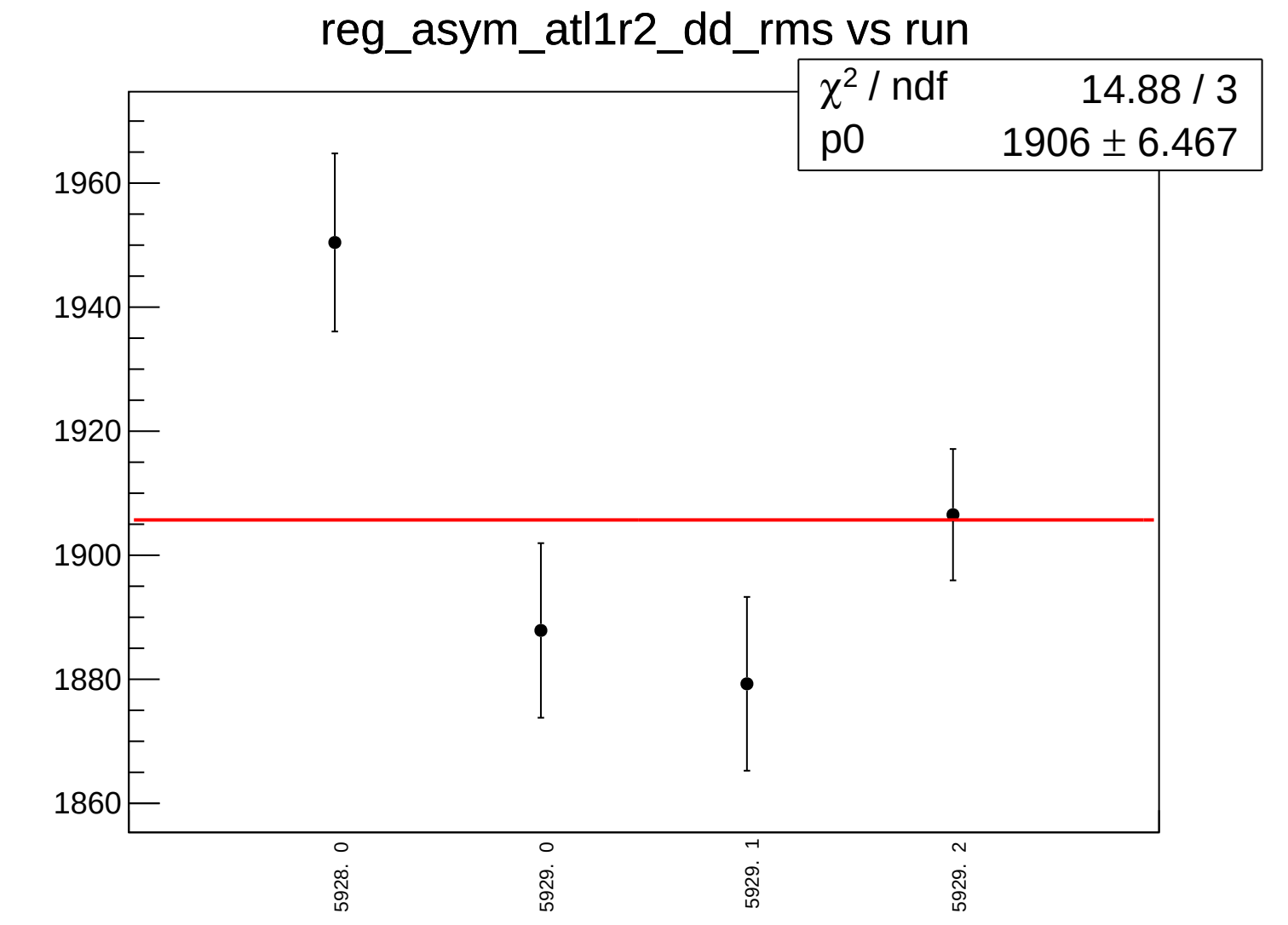

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 1.871 / 3
p0 −3.428e+04 ± 3.33e+04
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.523
Std Dev 4.587
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

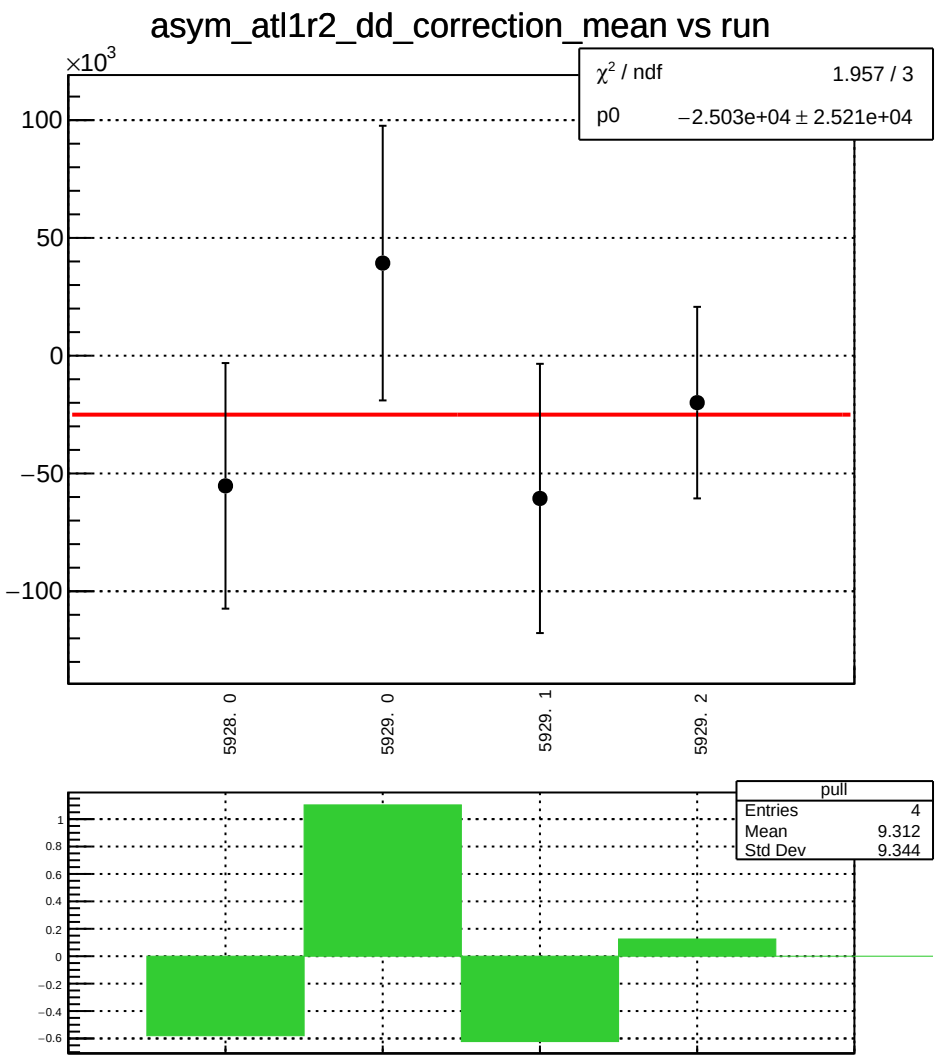

pull1D
Entries 4
Mean 0.035
Std Dev 0.6831
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

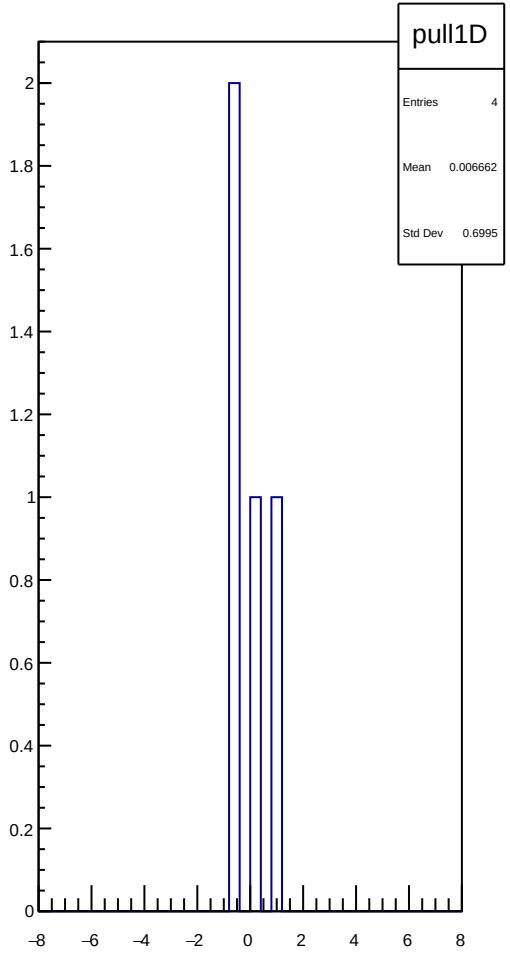

asym_atl1r2_avg_rms vs run
χ² / ndf 101.4 / 3
p0 6936 ± 23.55
7400
7300
7200
7100
7000
6900
6800
6700
6600
6500
5928. 0
5929. 0
5929. 1
5929. 2

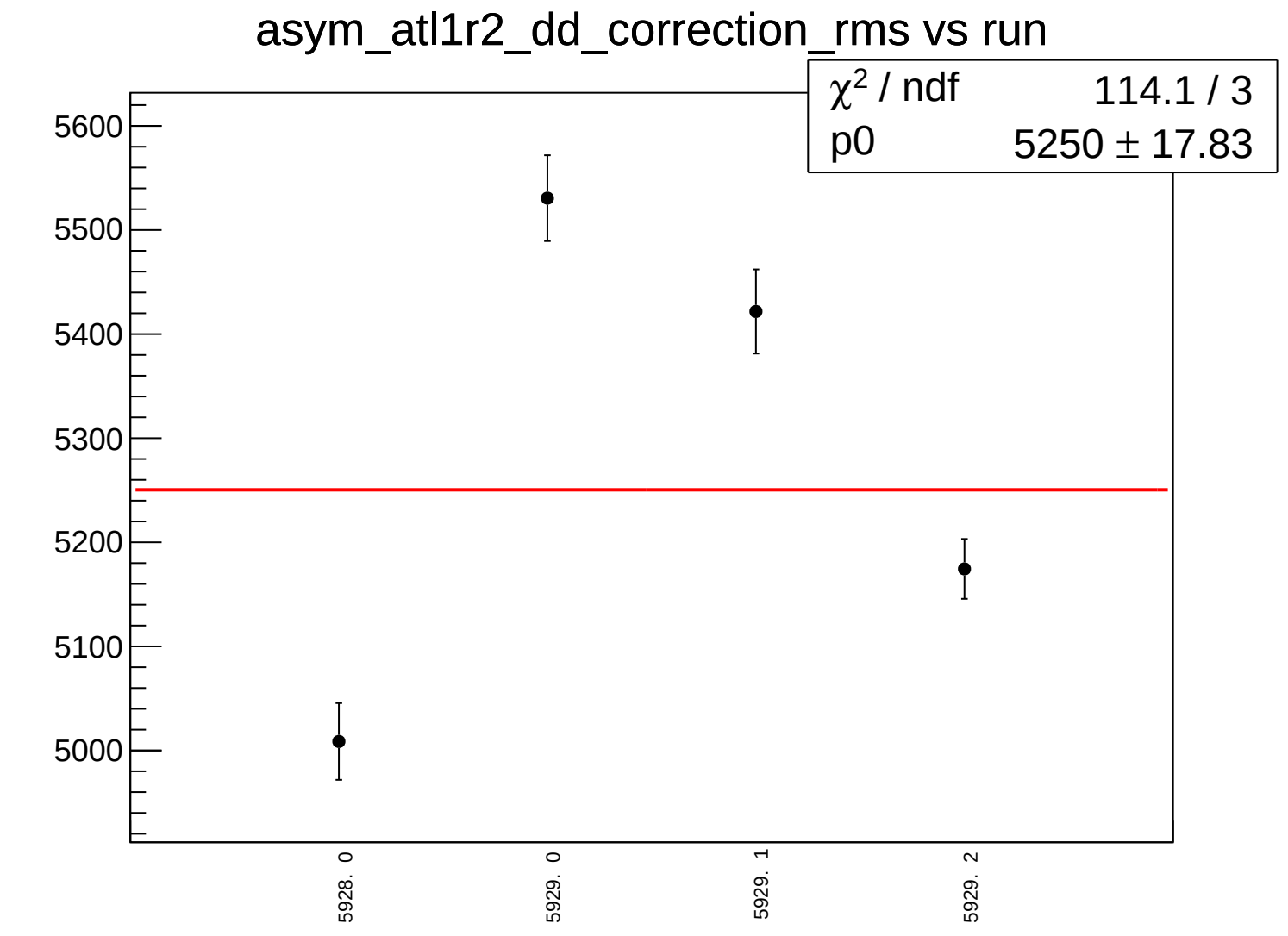

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 0.1778 / 3
p0 4759 ± 9146
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.802
Std Dev 8.965
0.3
0.2
0.1
0
−0.1
−0.2

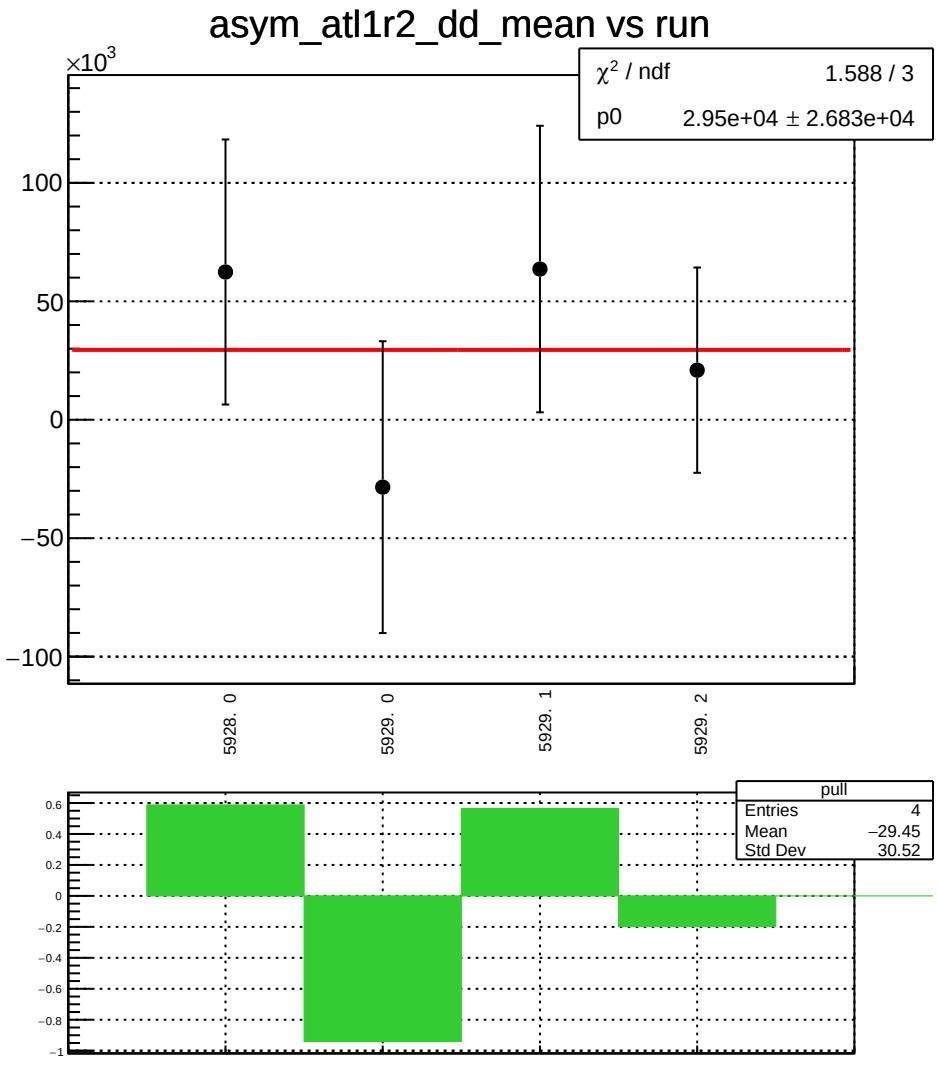

pull1D
Entries 4
Mean 0.02122
Std Dev 0.2097
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

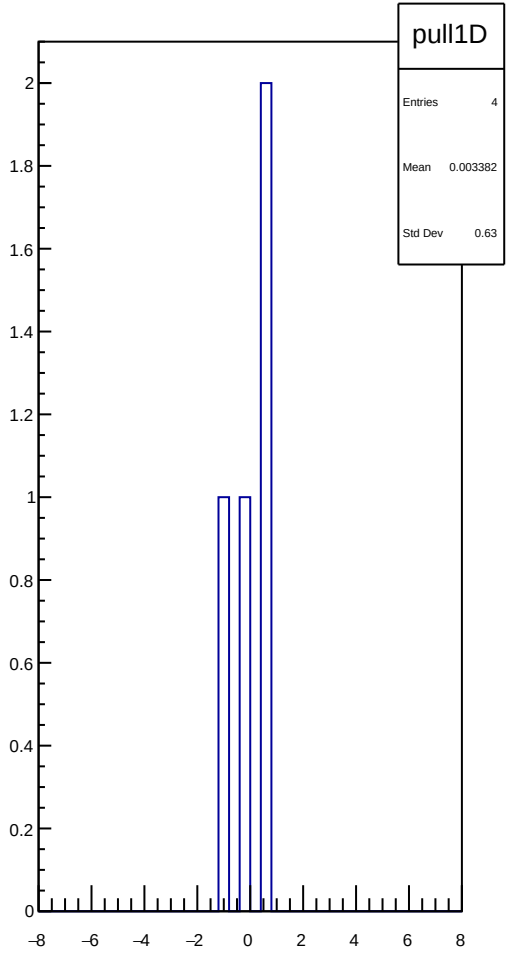

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 14.88 / 3
p0 1906 ± 6.467
1960
1940
1920
1900
1880
1860
5928. 0
5929. 0
5929. 1
5929. 2

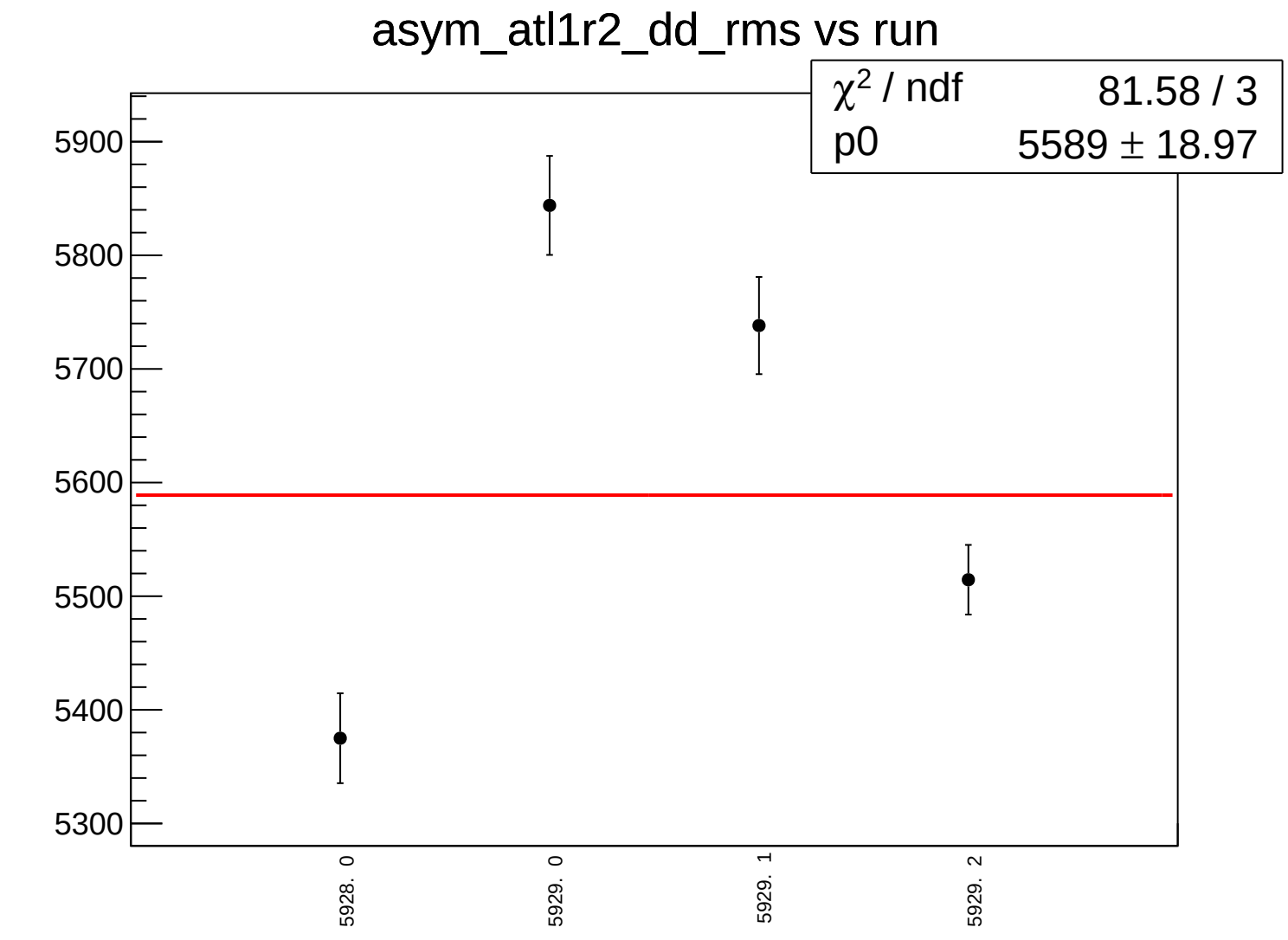

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 1.957 / 3
p0 −2.503e+04 ± 2.521e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.312
Std Dev 9.344
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

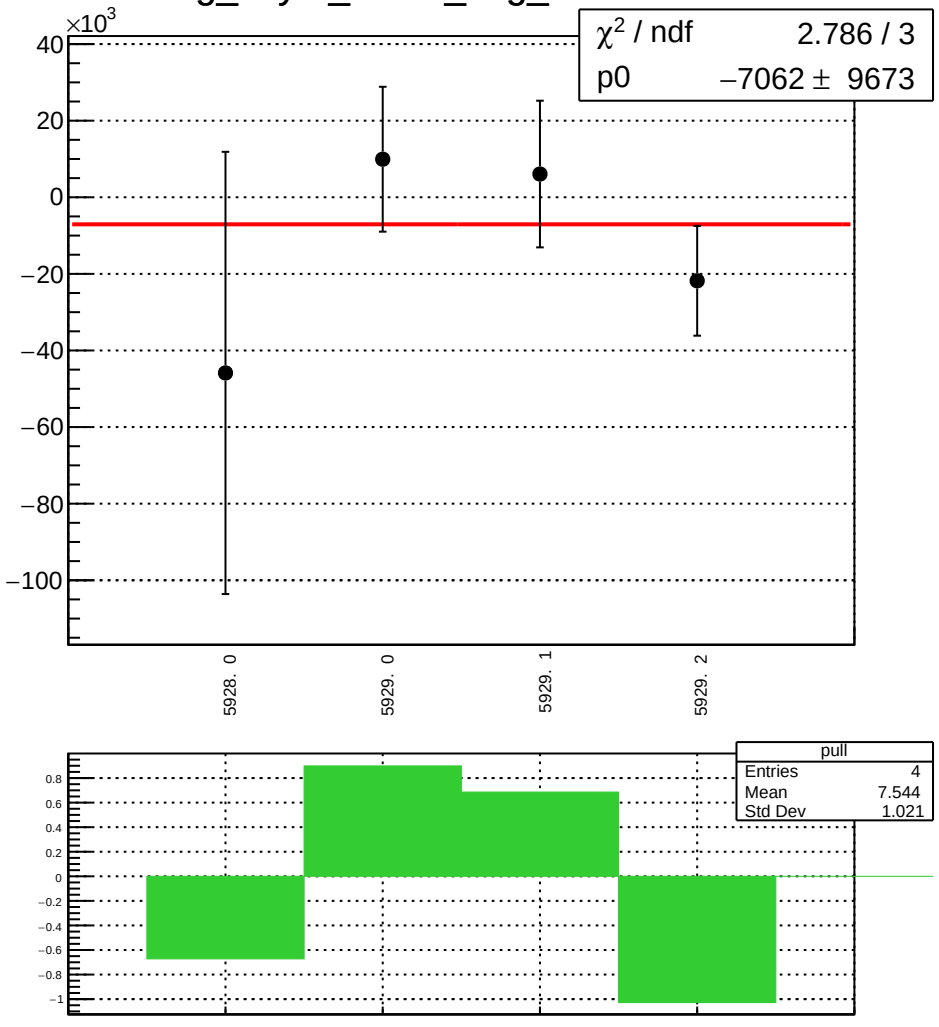

pull1D
Entries 4
Mean 0.006662
Std Dev 0.6995
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

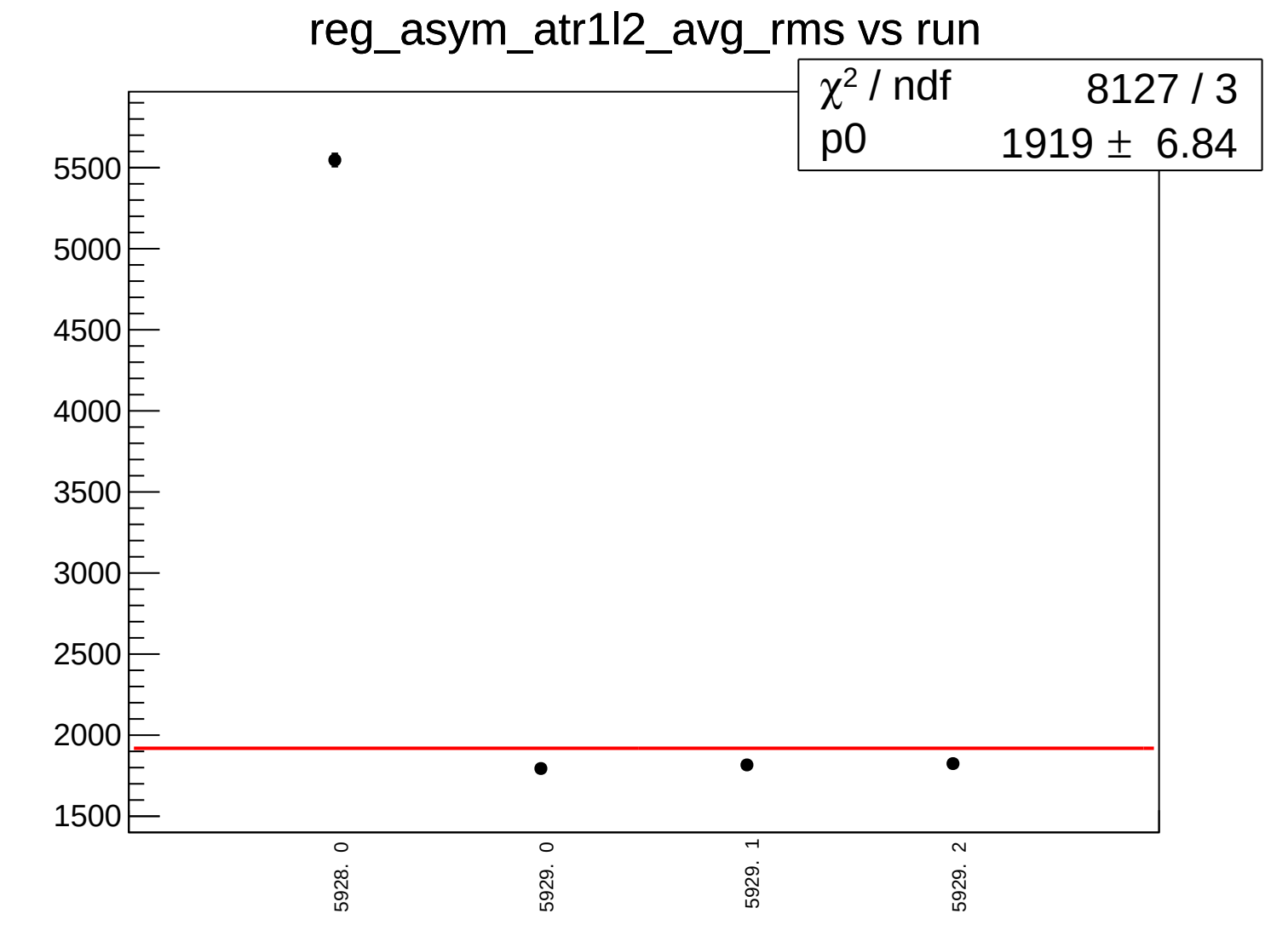

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 114.1 / 3
p0 5250 ± 17.83
5600
5500
5400
5300
5200
5100
5000
5928. 0
5929. 0
5929. 1
5929. 2

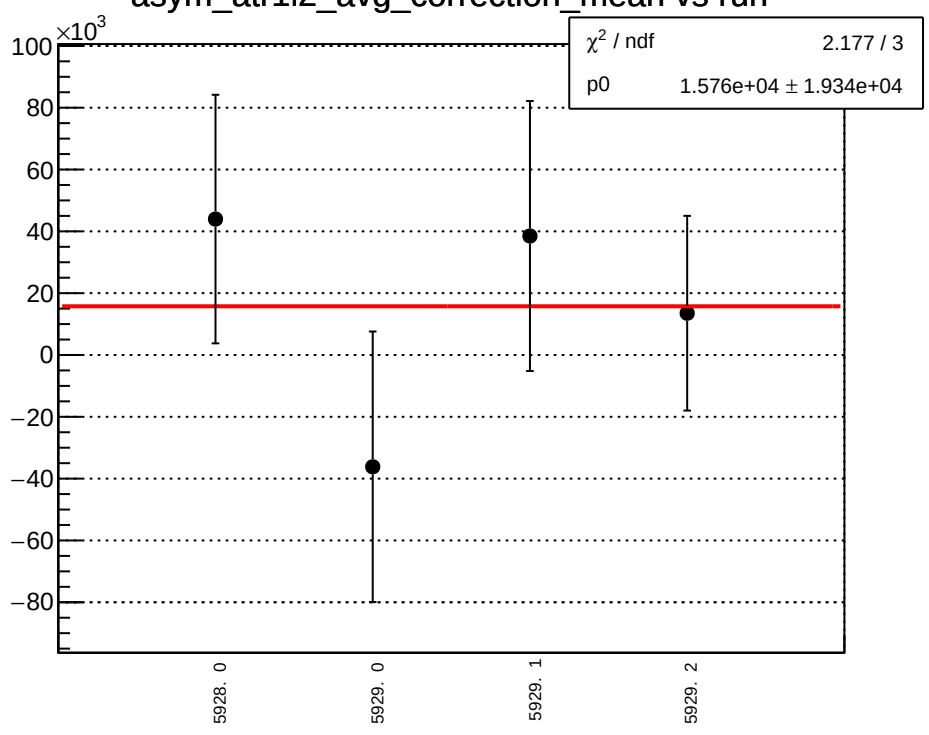

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 1.588 / 3
p0 2.95e+04 ± 2.683e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −29.45
Std Dev 30.52
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

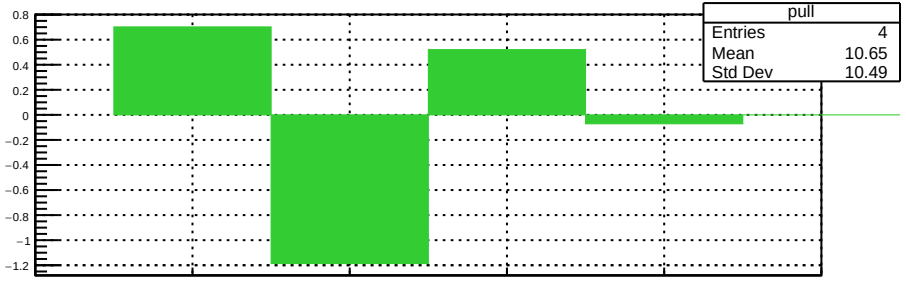

pull1D
Entries 4
Mean 0.003382
Std Dev 0.63
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

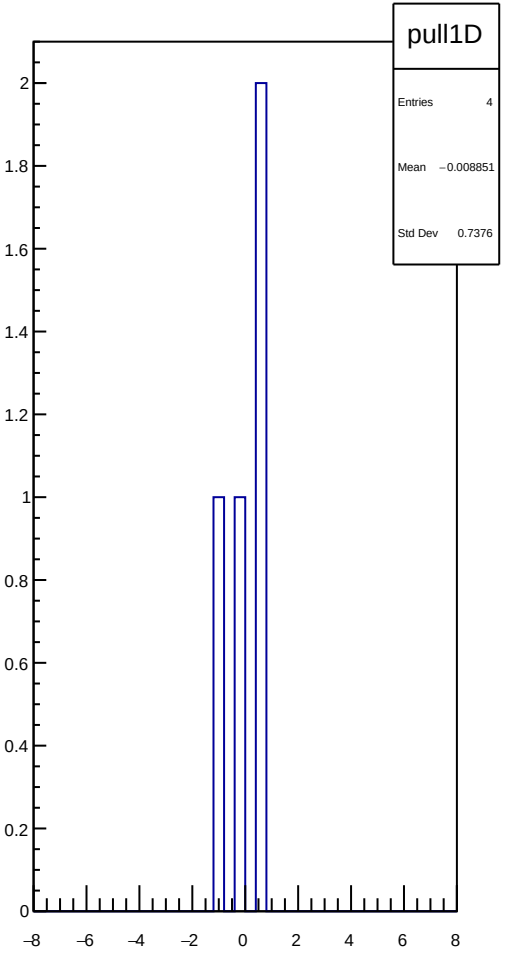

asym_atl1r2_dd_rms vs run
χ^2 / ndf 81.58 / 3
p0 5589 ± 18.97
5900
5800
5700
5600
5500
5400
5300
5928. 0
5929. 0
5929. 1
5929. 2

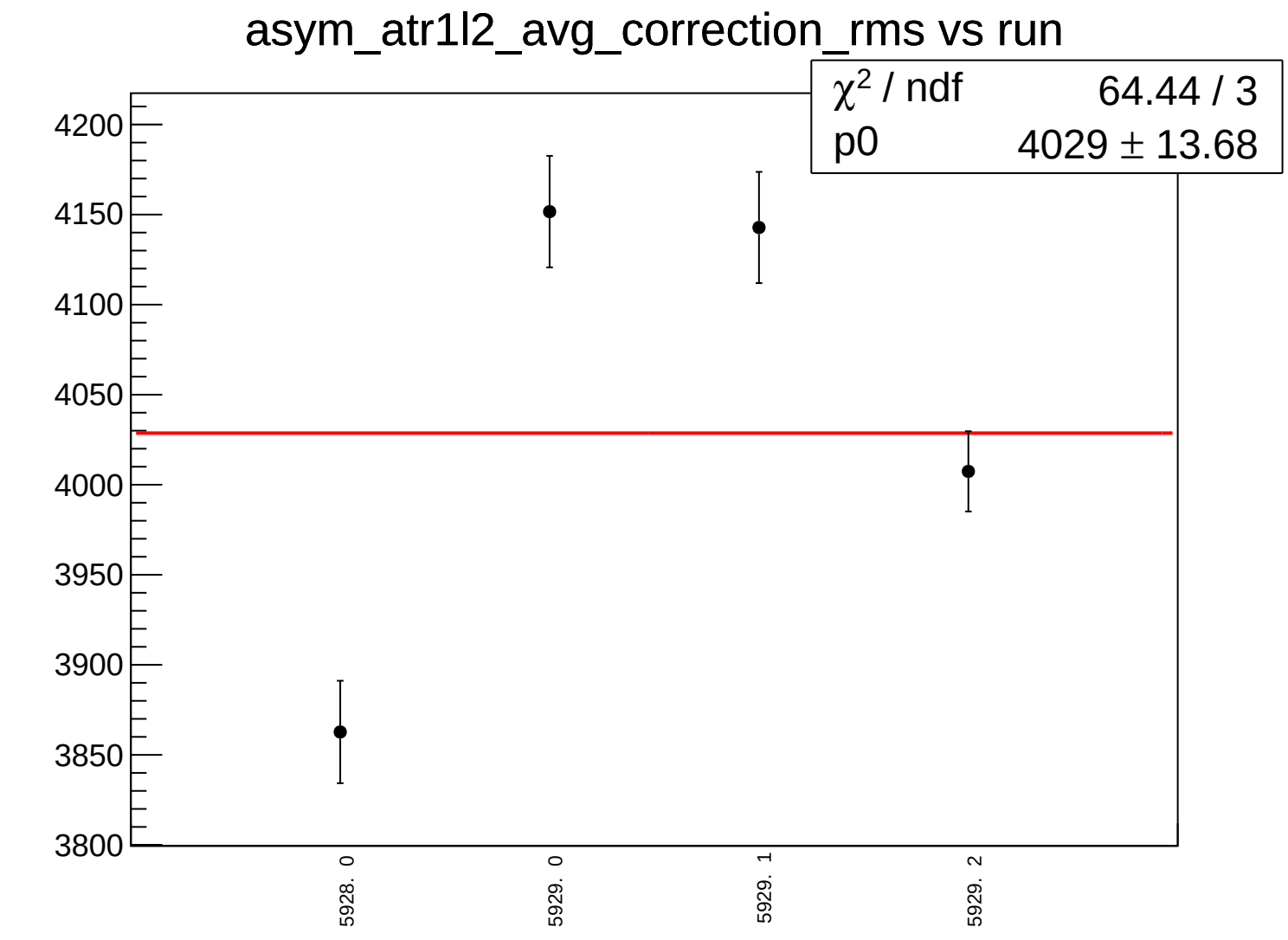

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 2.786 / 3
p0 −7062 ± 9673
40
20
0
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.544
Std Dev 1.021
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.02887
Std Dev 0.8341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

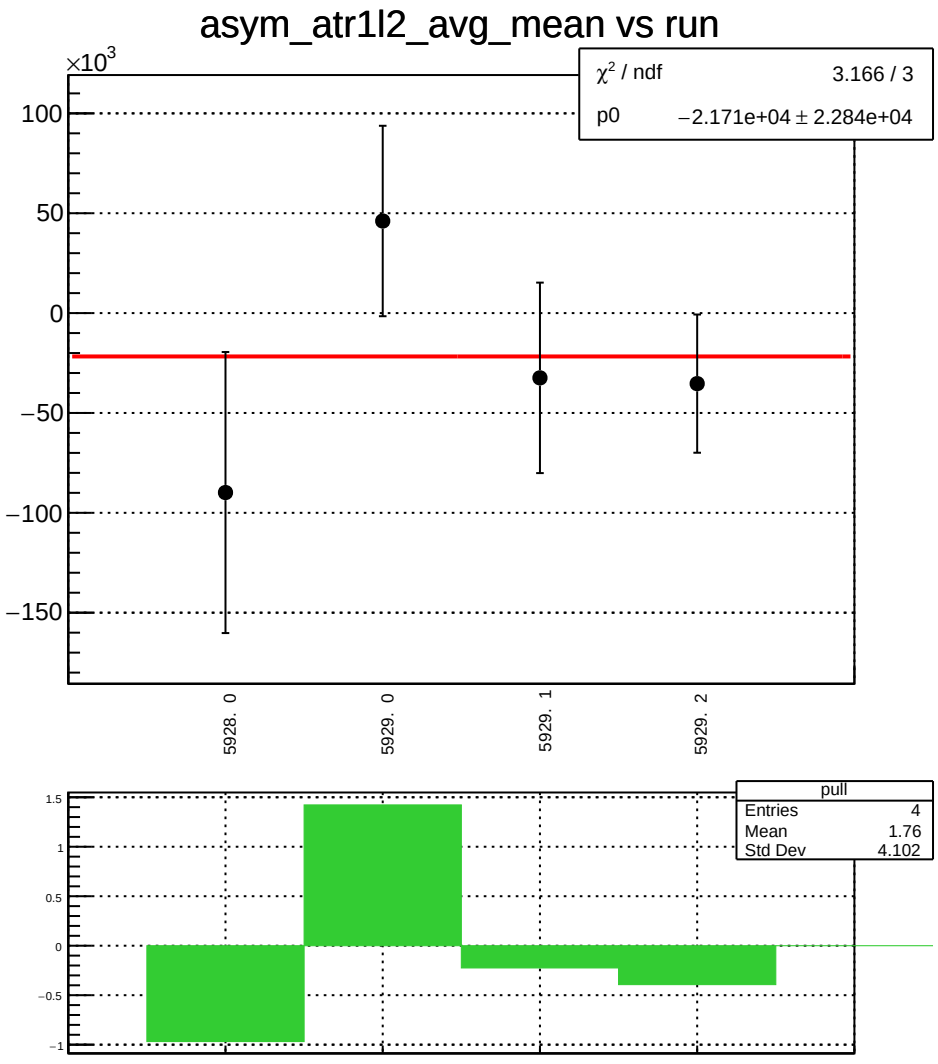

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 8127 / 3
p0 1919 ± 6.84
5500
5000
4500
4000
3500
3000
2500
2000
1500
5928. 0
5929. 0
5929. 1
5929. 2

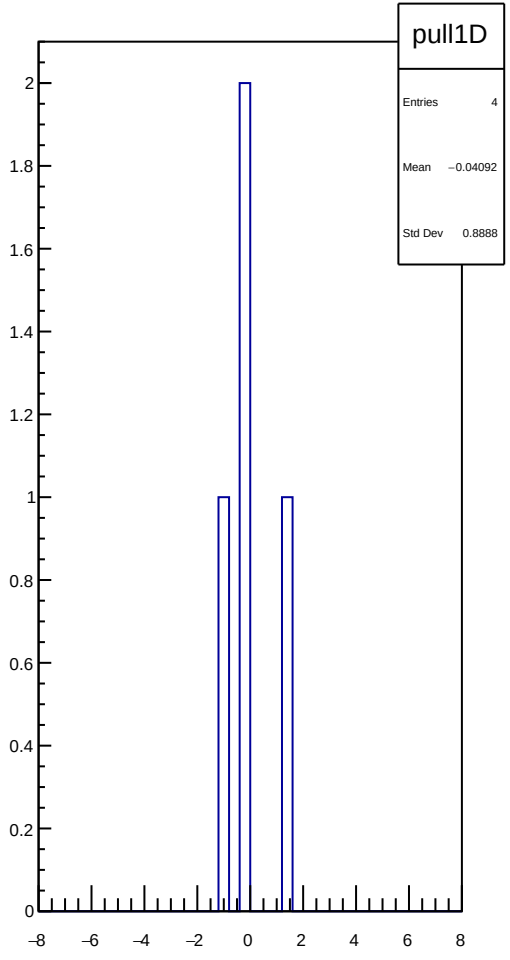

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 2.177 / 3
p0 1.576e+04 ± 1.934e+04
100
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2

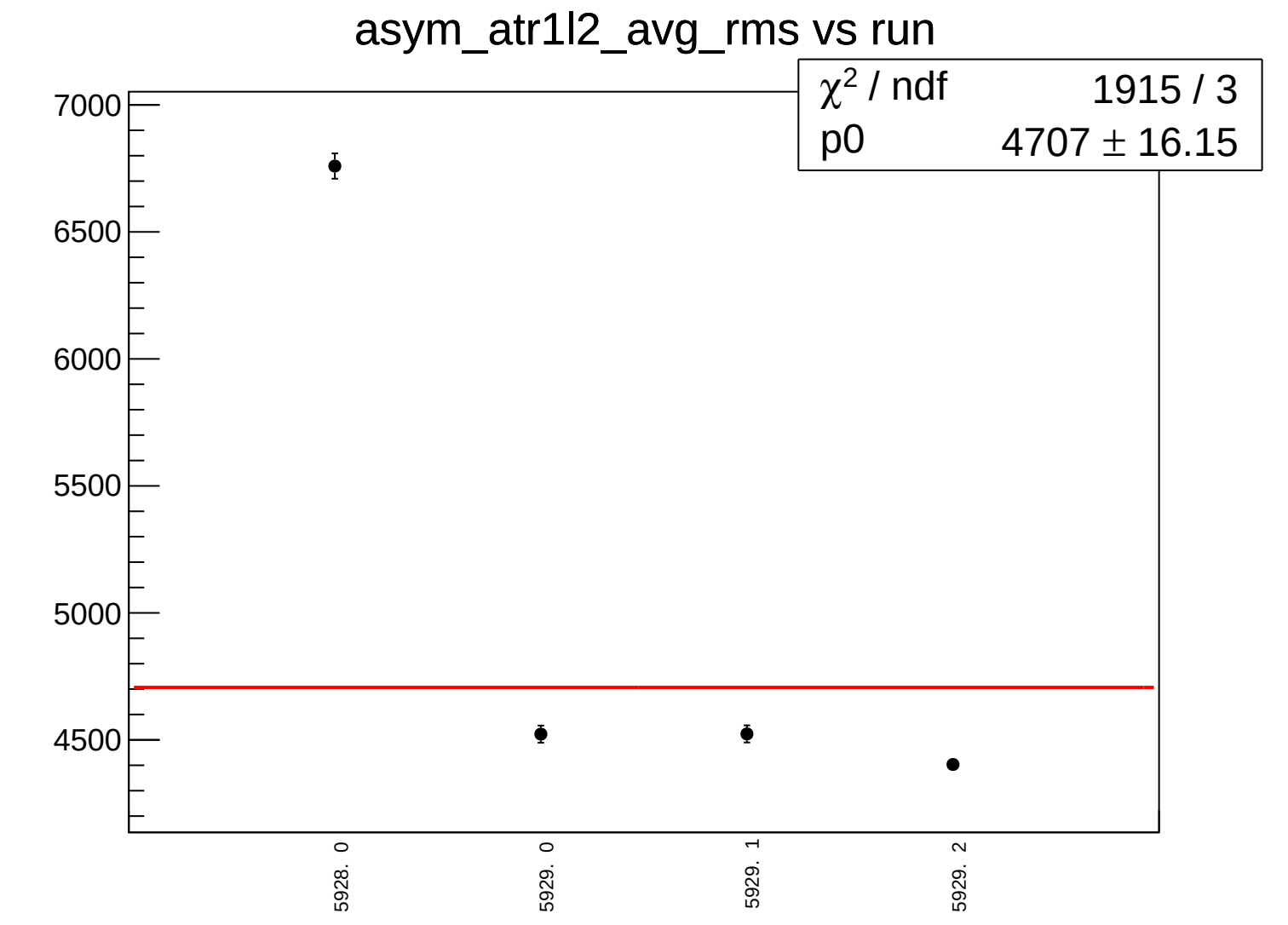

pull
Entries 4
Mean 10.65
Std Dev 10.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

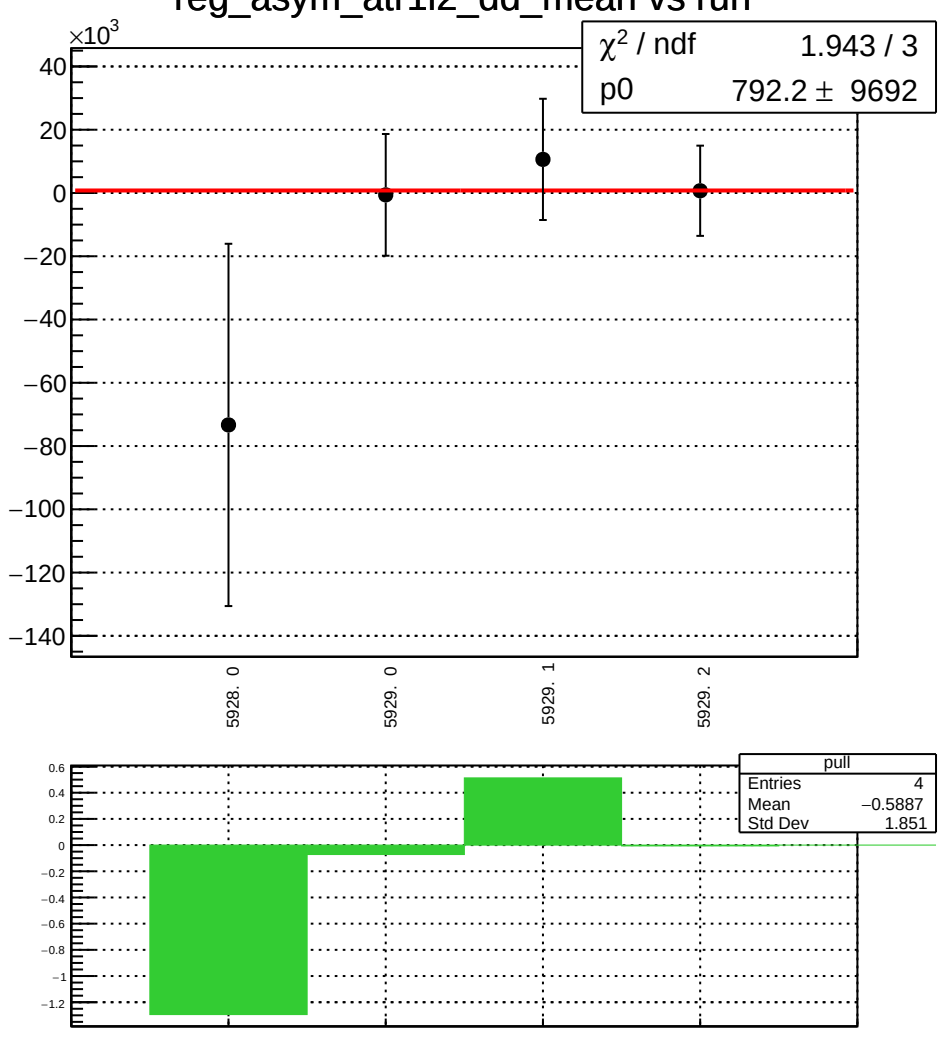

pull1D
Entries 4
Mean −0.008851
Std Dev 0.7376
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

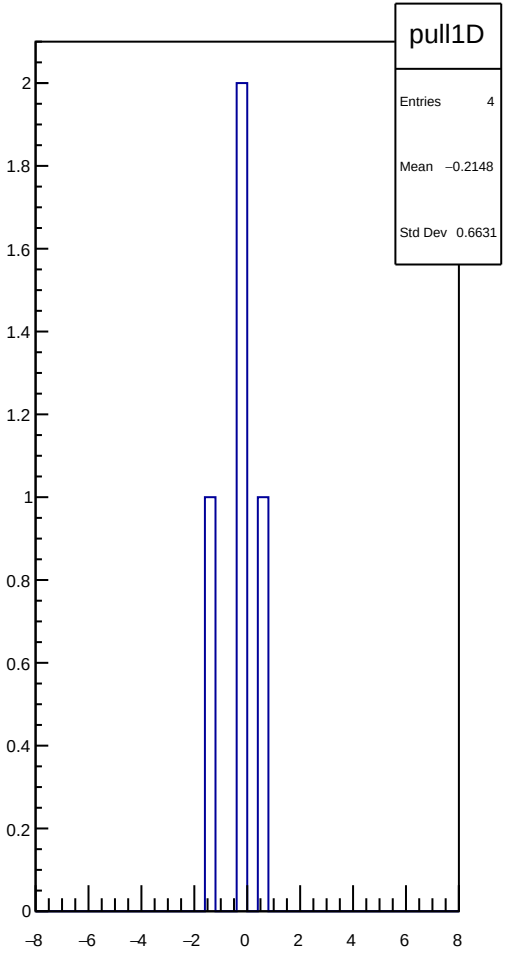

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 64.44 / 3
p0 4029 ± 13.68
4200
4150
4100
4050
4000
3950
3900
3850
3800
5928. 0
5929. 0
5929. 1
5929. 2

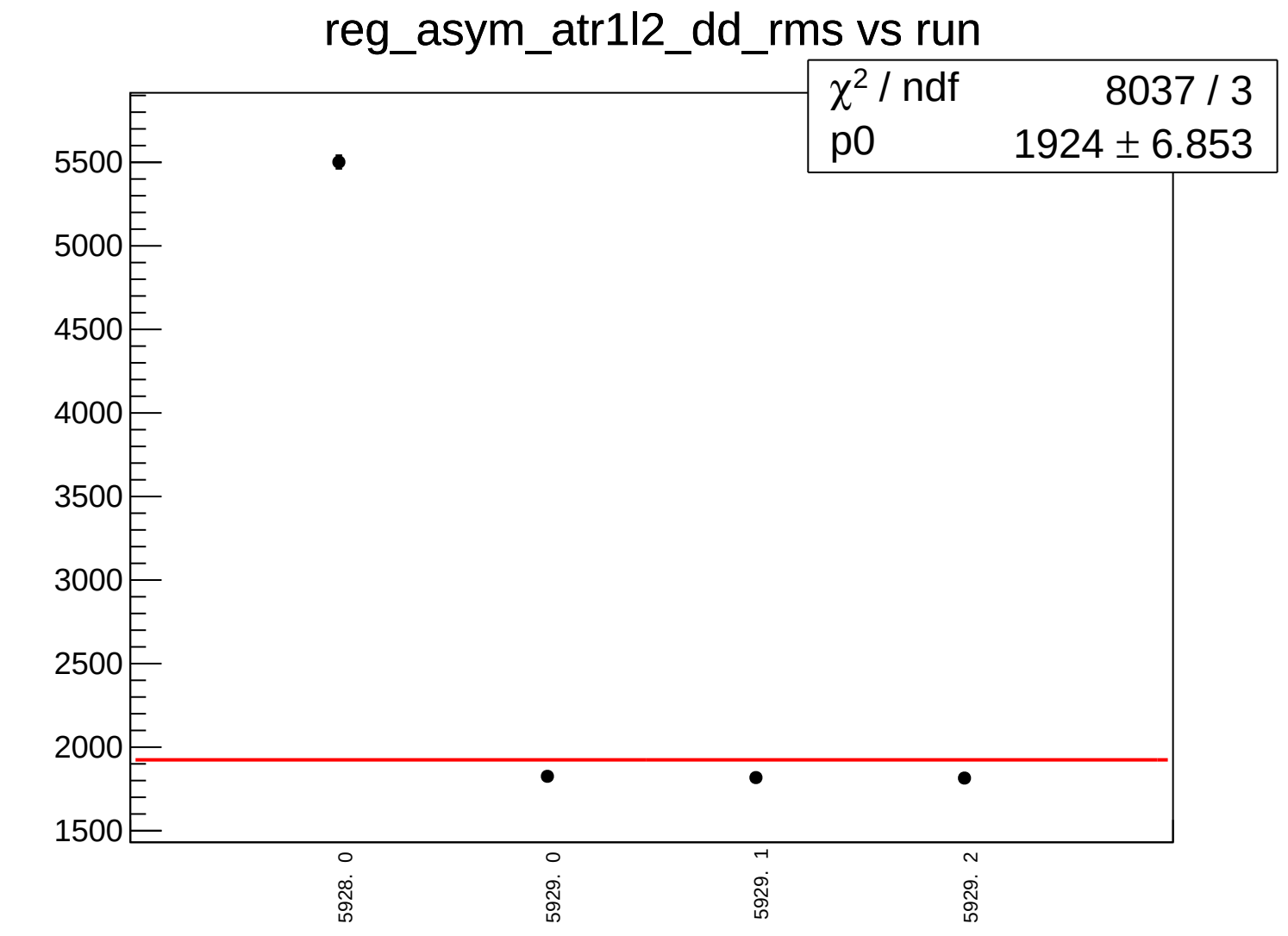

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 3.166 / 3
p0 −2.171e+04 ± 2.284e+04
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.76
Std Dev 4.102
1.5
1
0.5
0
−0.5
−1

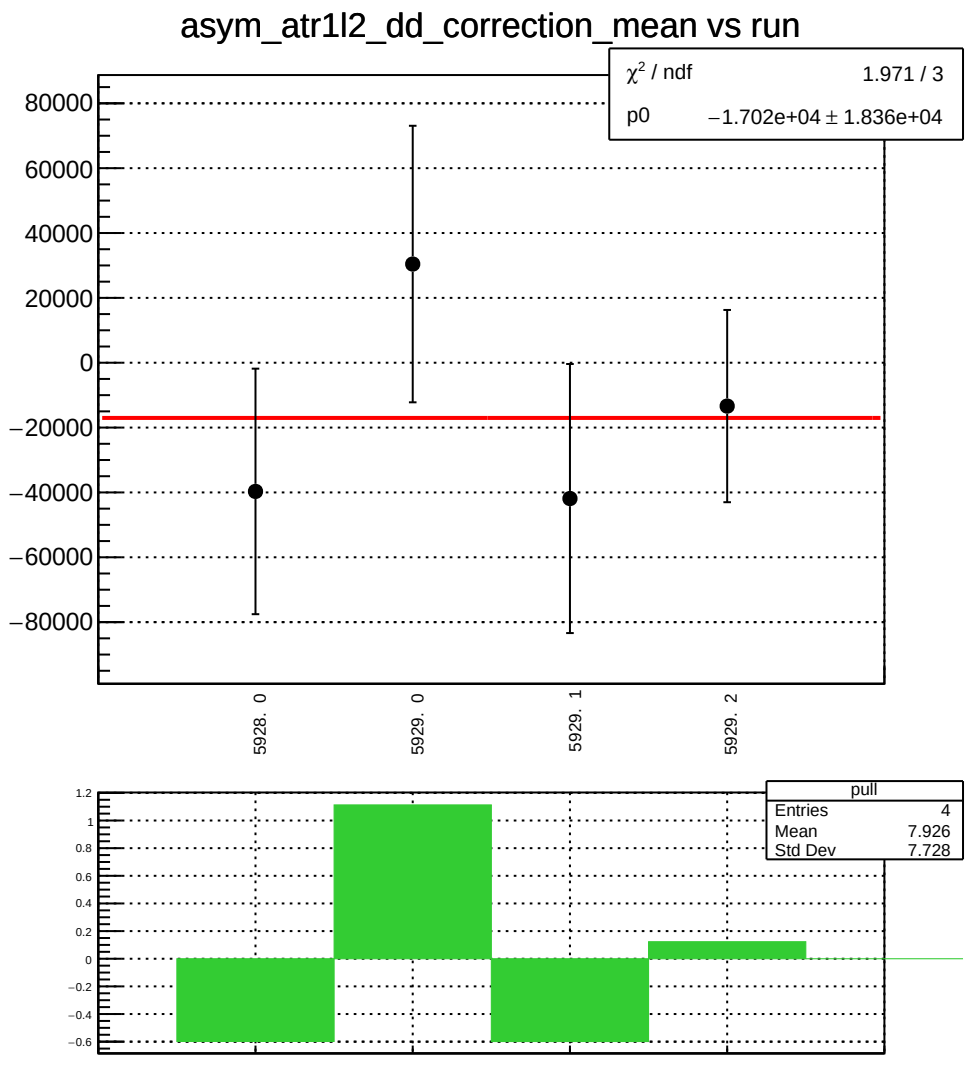

pull1D
Entries 4
Mean −0.04092
Std Dev 0.8888
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

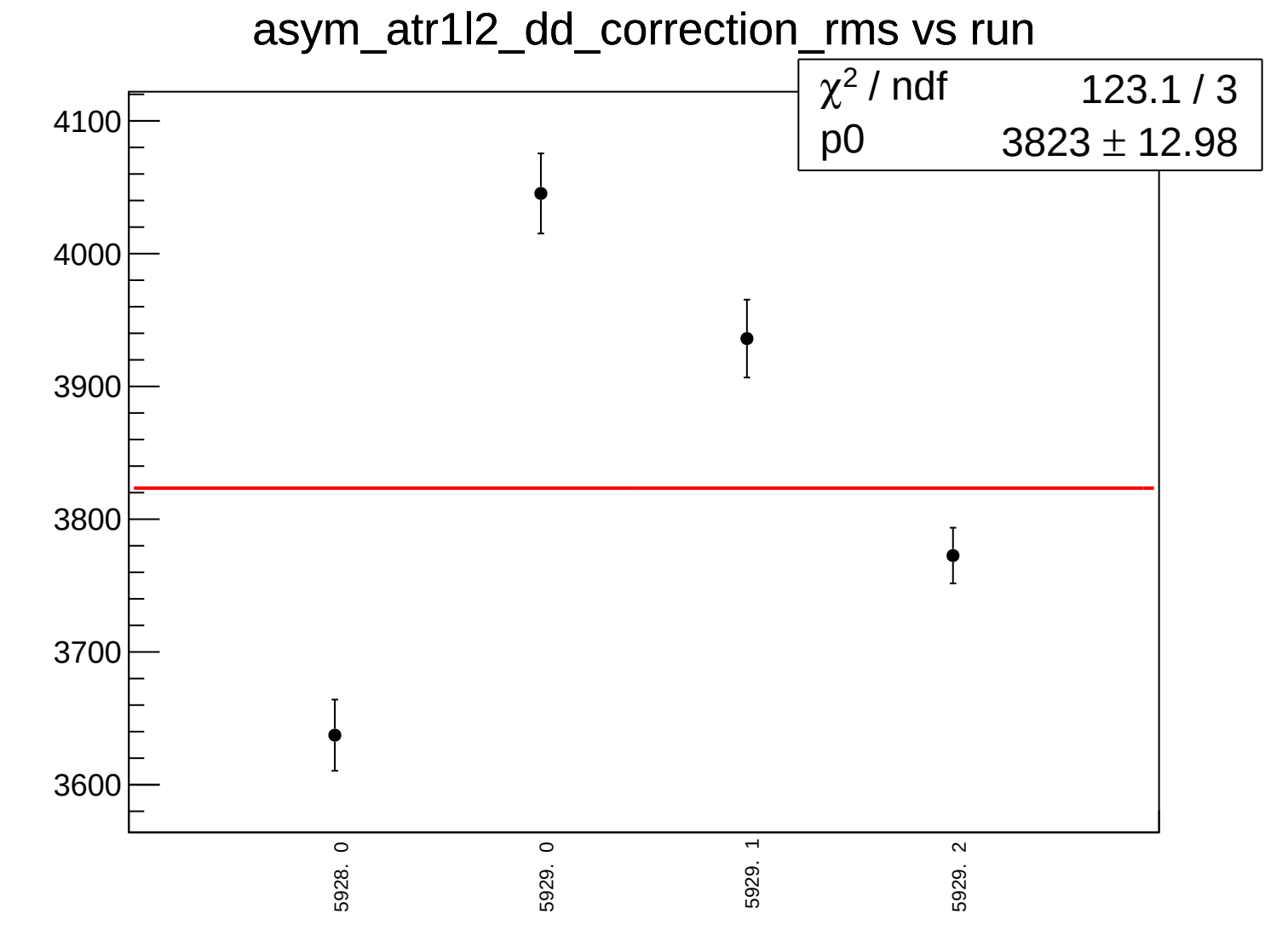

asym_atr1l2_avg_rms vs run
χ² / ndf 1915 / 3
p0 4707 ± 16.15
7000
6500
6000
5500
5000
4500
5928. 0
5929. 0
5929. 1
5929. 2

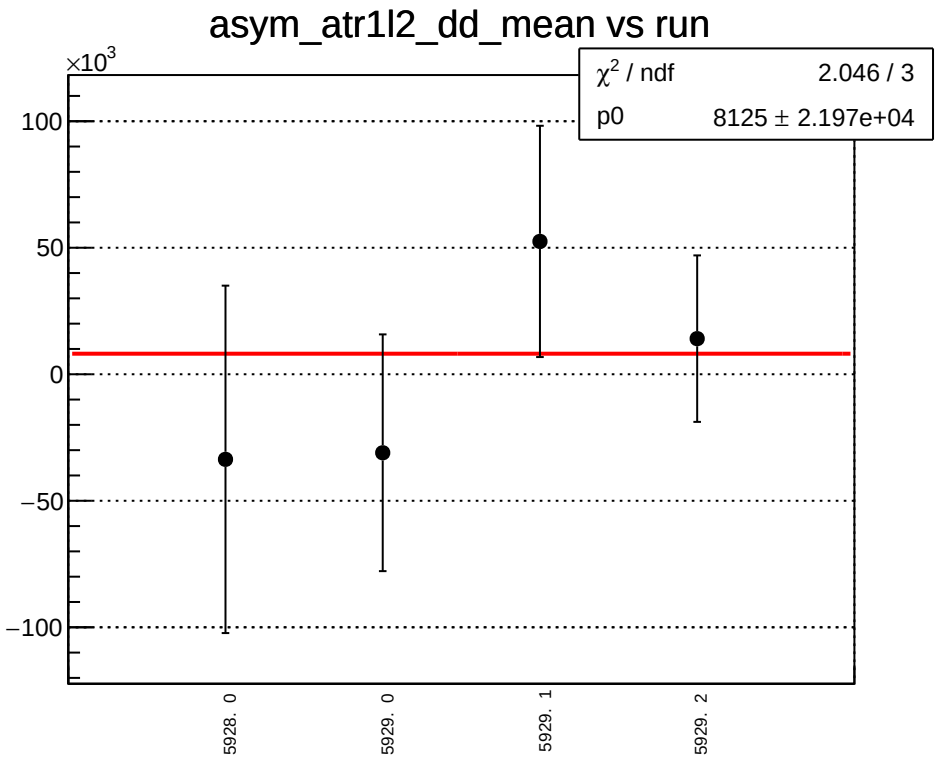

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 1.943 / 3
p0 792.2 ± 9692
40
20
0
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.5887
Std Dev 1.851
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

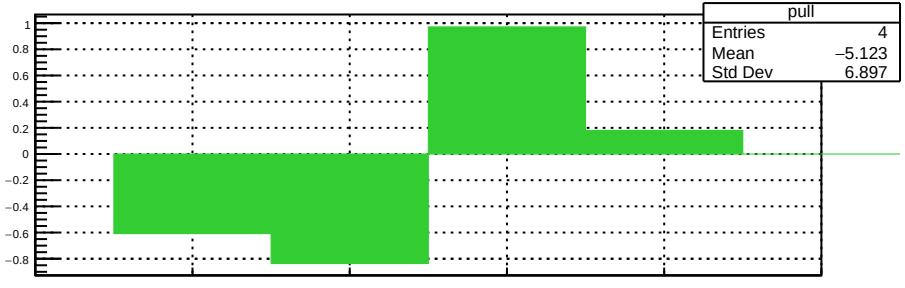

pull1D
Entries 4
Mean −0.2148
Std Dev 0.6631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

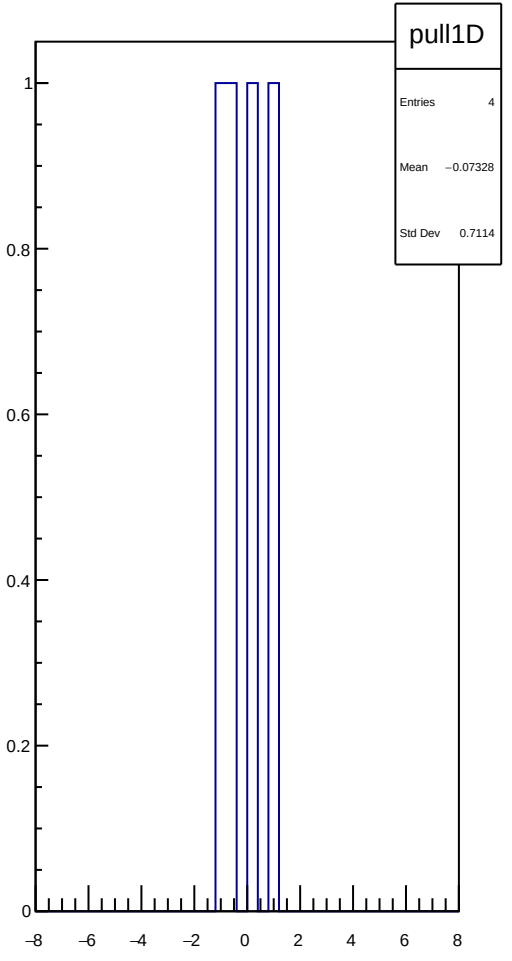

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 8037 / 3
p0 1924 ± 6.853
5500
5000
4500
4000
3500
3000
2500
2000
1500
5928. 0
5929. 0
5929. 1
5929. 2

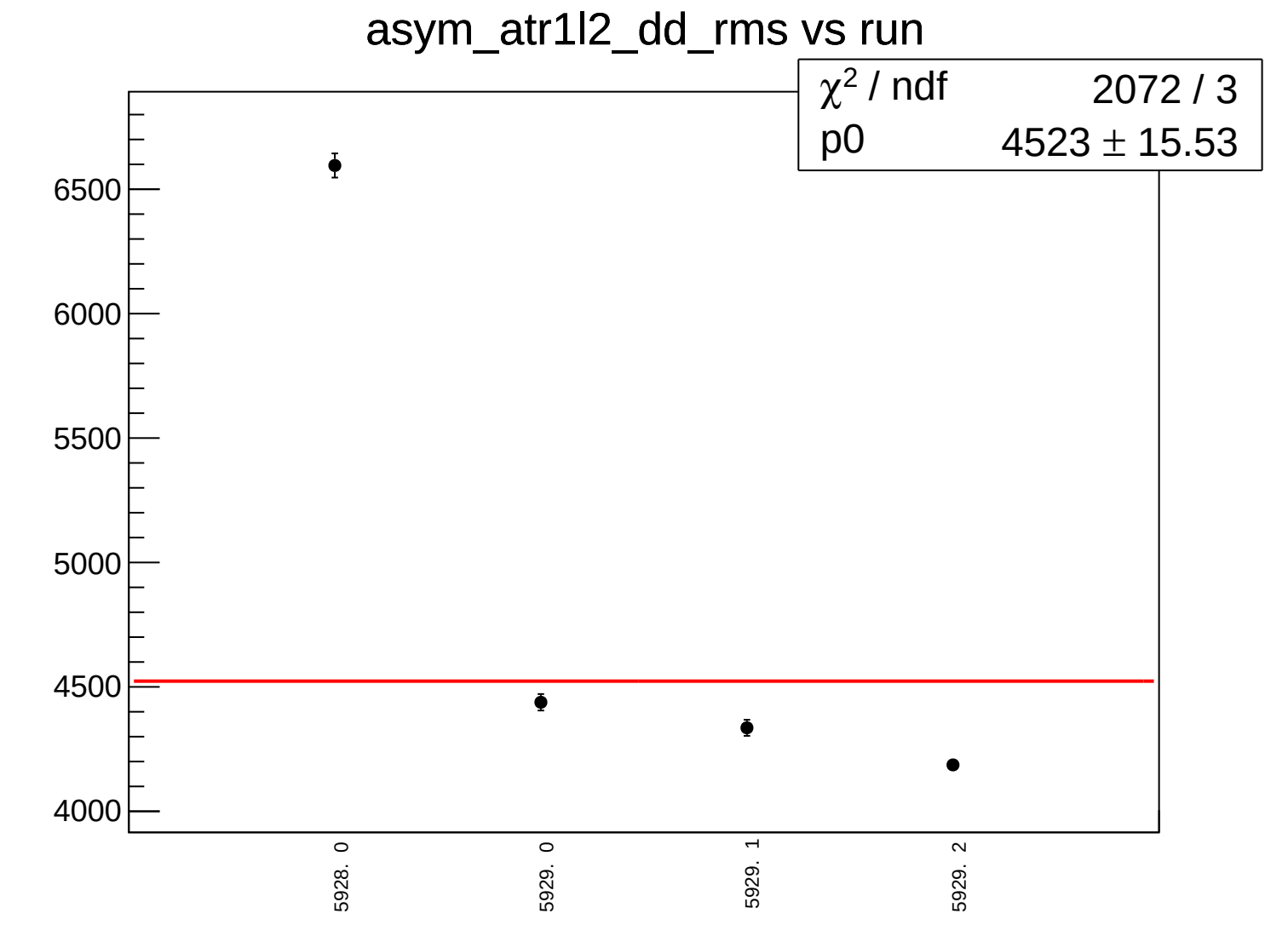

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 1.971 / 3
p0 −1.702e+04 ± 1.836e+04
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.926
Std Dev 7.728
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.009564
Std Dev 0.7019
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

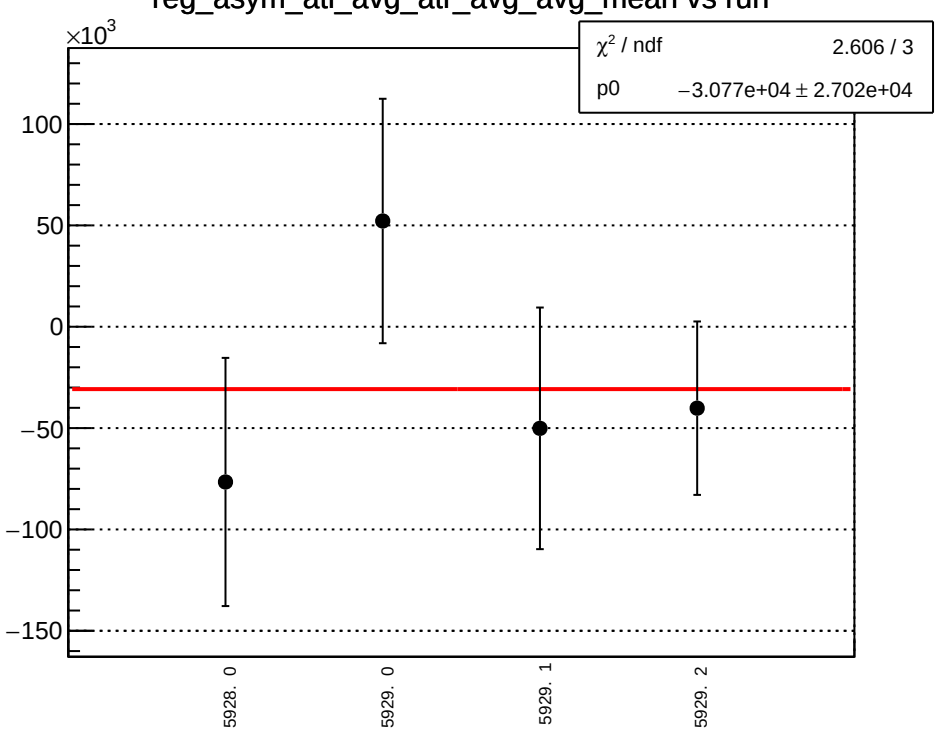

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 123.1 / 3
p0 3823 ± 12.98
4100
4000
3900
3800
3700
3600
5928. 0
5929. 0
5929. 1
5929. 2

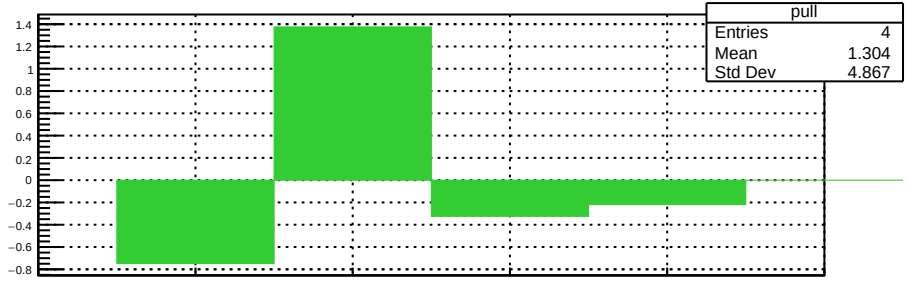

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 2.046 / 3
p0 8125 ± 2.197e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2

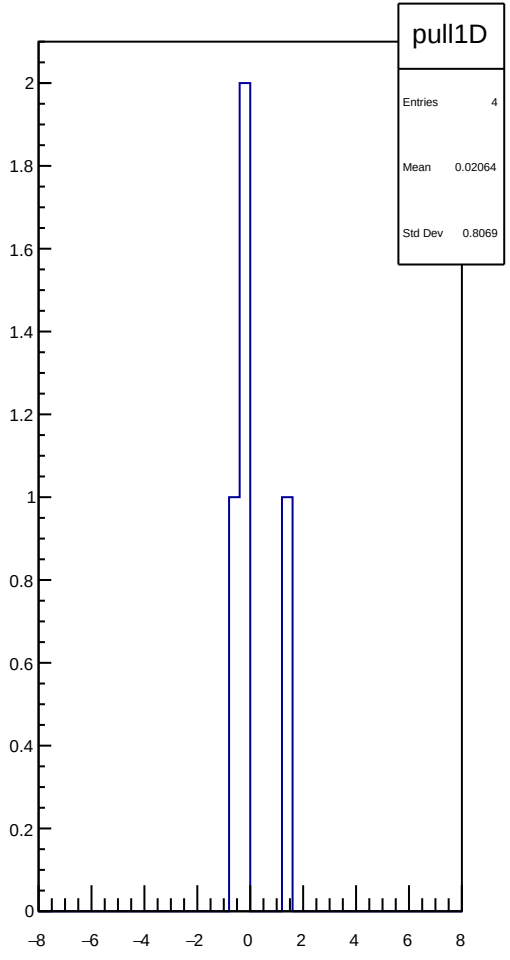

pull
Entries 4
Mean −5.123
Std Dev 6.897
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

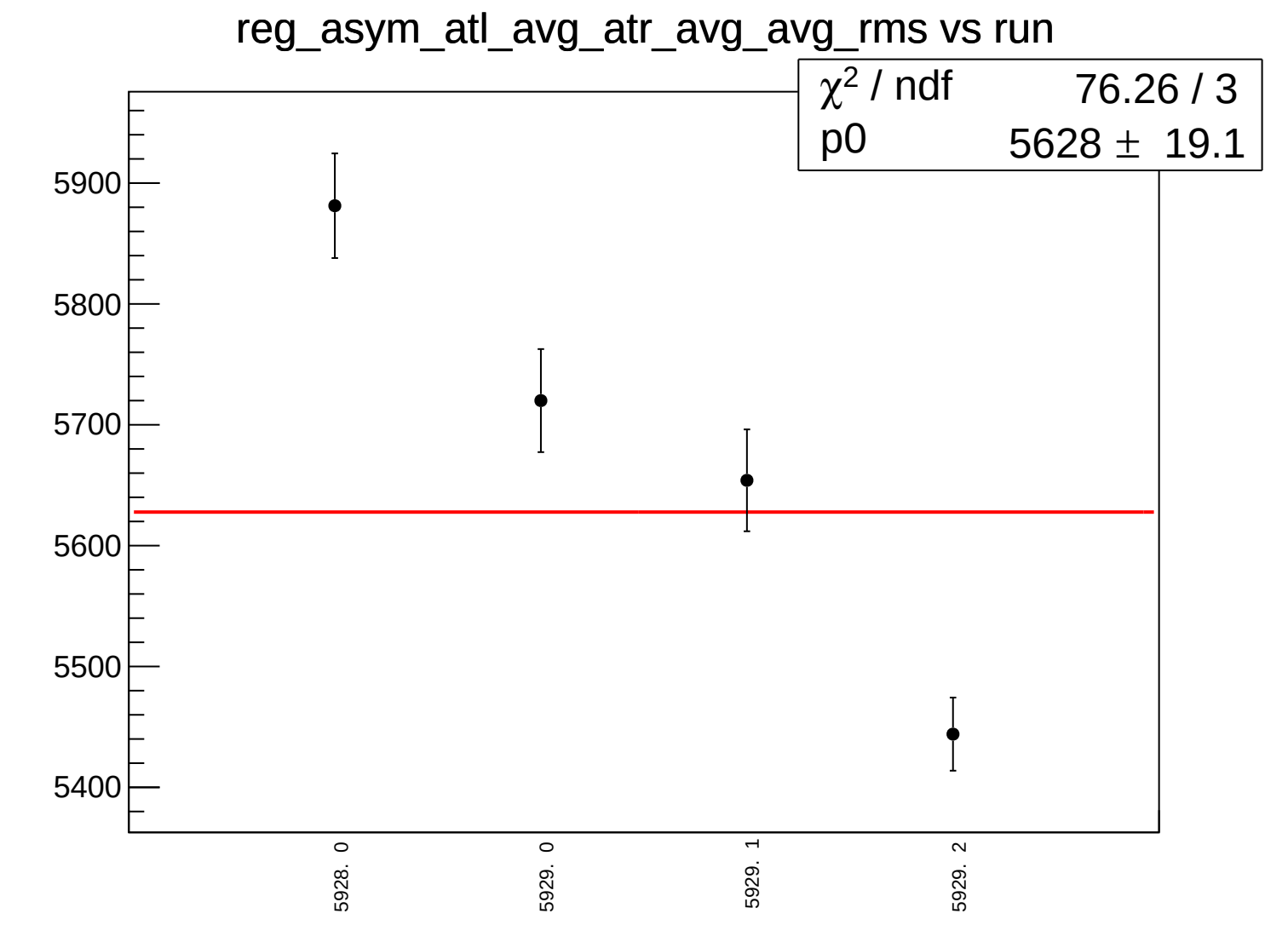

pull1D
Entries 4
Mean −0.07328
Std Dev 0.7114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

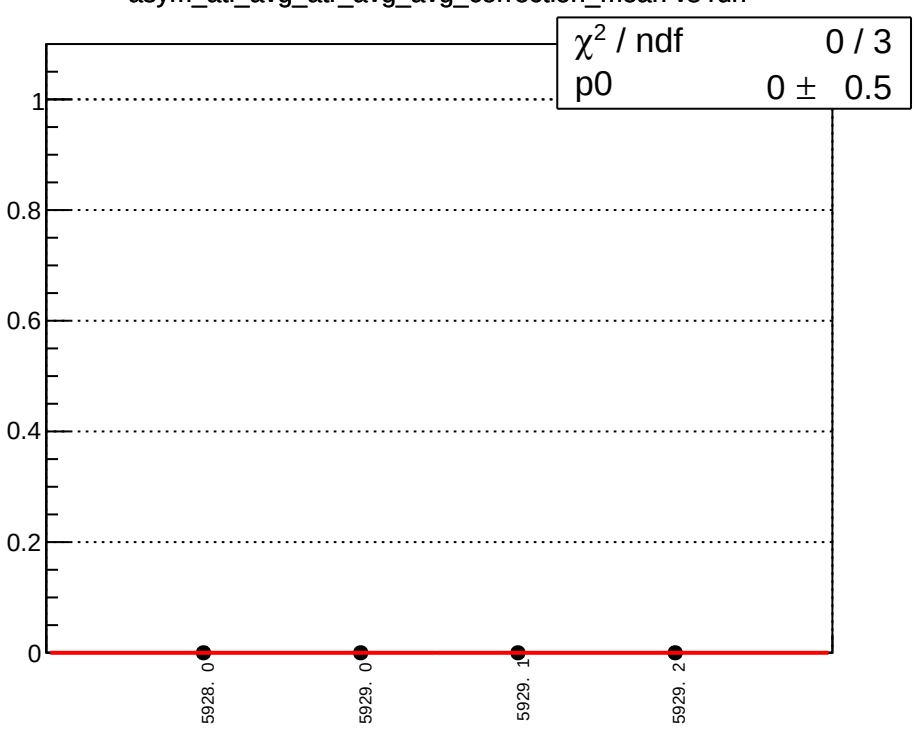

asym_atr1l2_dd_rms vs run
χ² / ndf 2072 / 3
p0 4523 ± 15.53
6500
6000
5500
5000
4500
4000
5928. 0
5929. 0
5929. 1
5929. 2

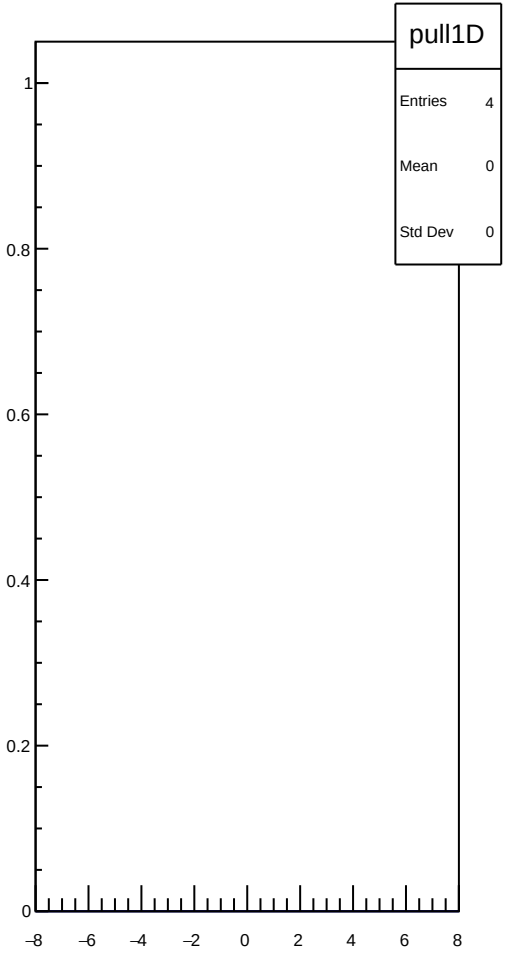

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 2.606 / 3
p0 −3.077e+04 ± 2.702e+04
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2

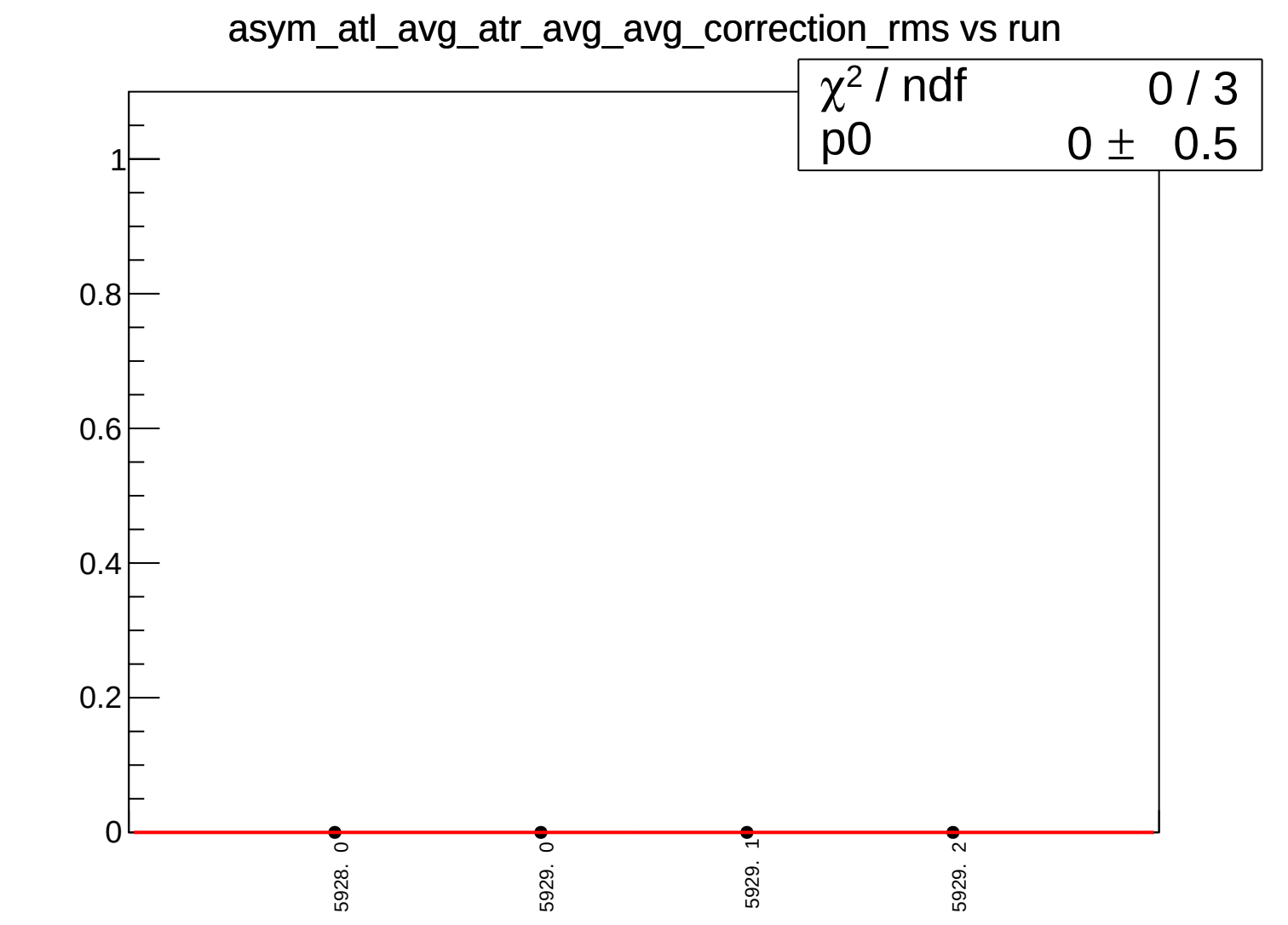

pull
Entries 4
Mean 1.304
Std Dev 4.867
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

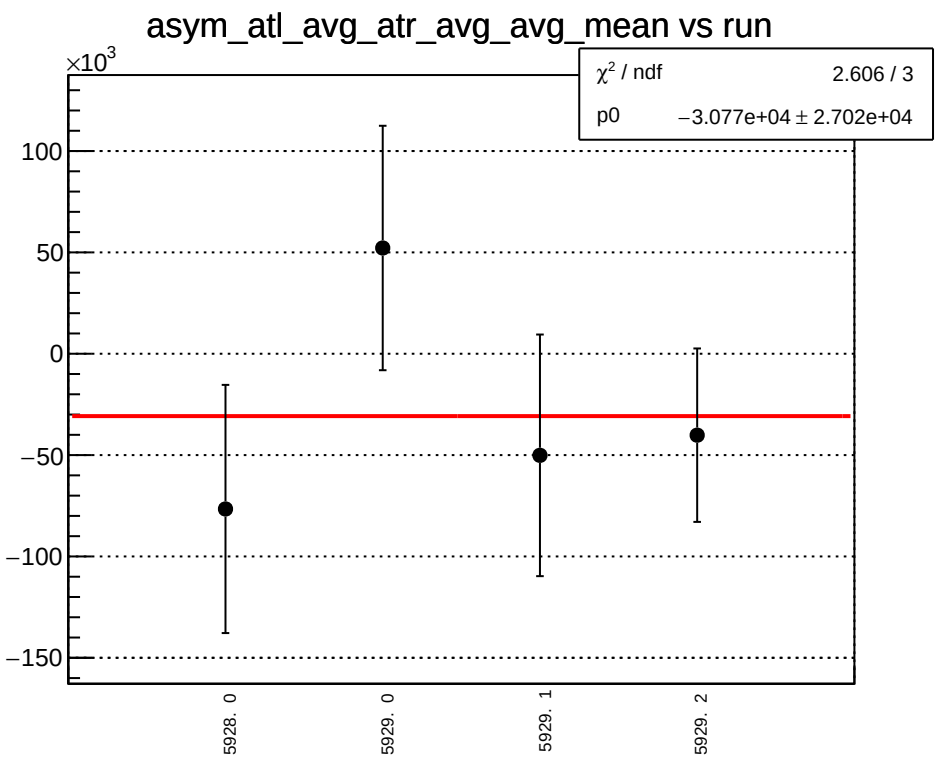

pull1D
Entries 4
Mean 0.02064
Std Dev 0.8069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

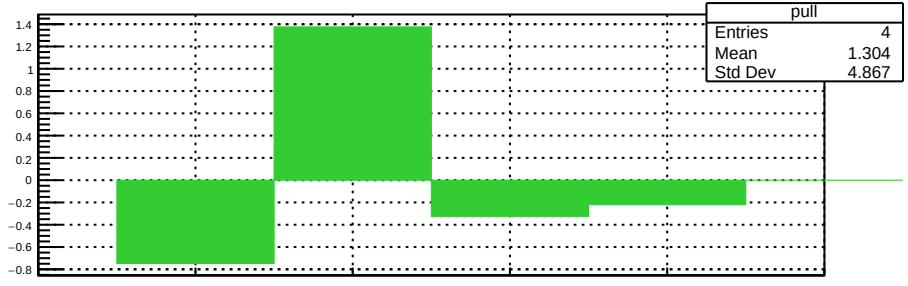

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 76.26 / 3
p0 5628 ± 19.1
5900
5800
5700
5600
5500
5400
5928. 0
5929. 0
5929. 1
5929. 2

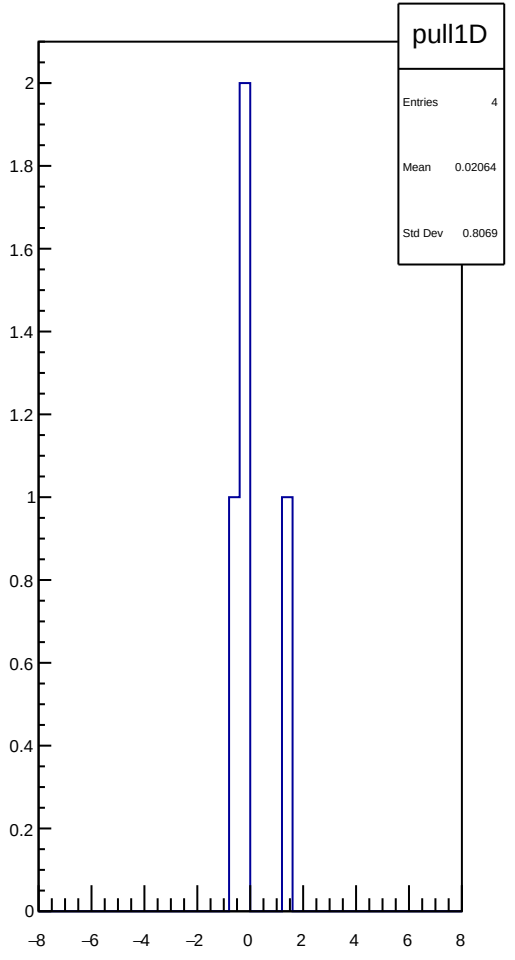

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

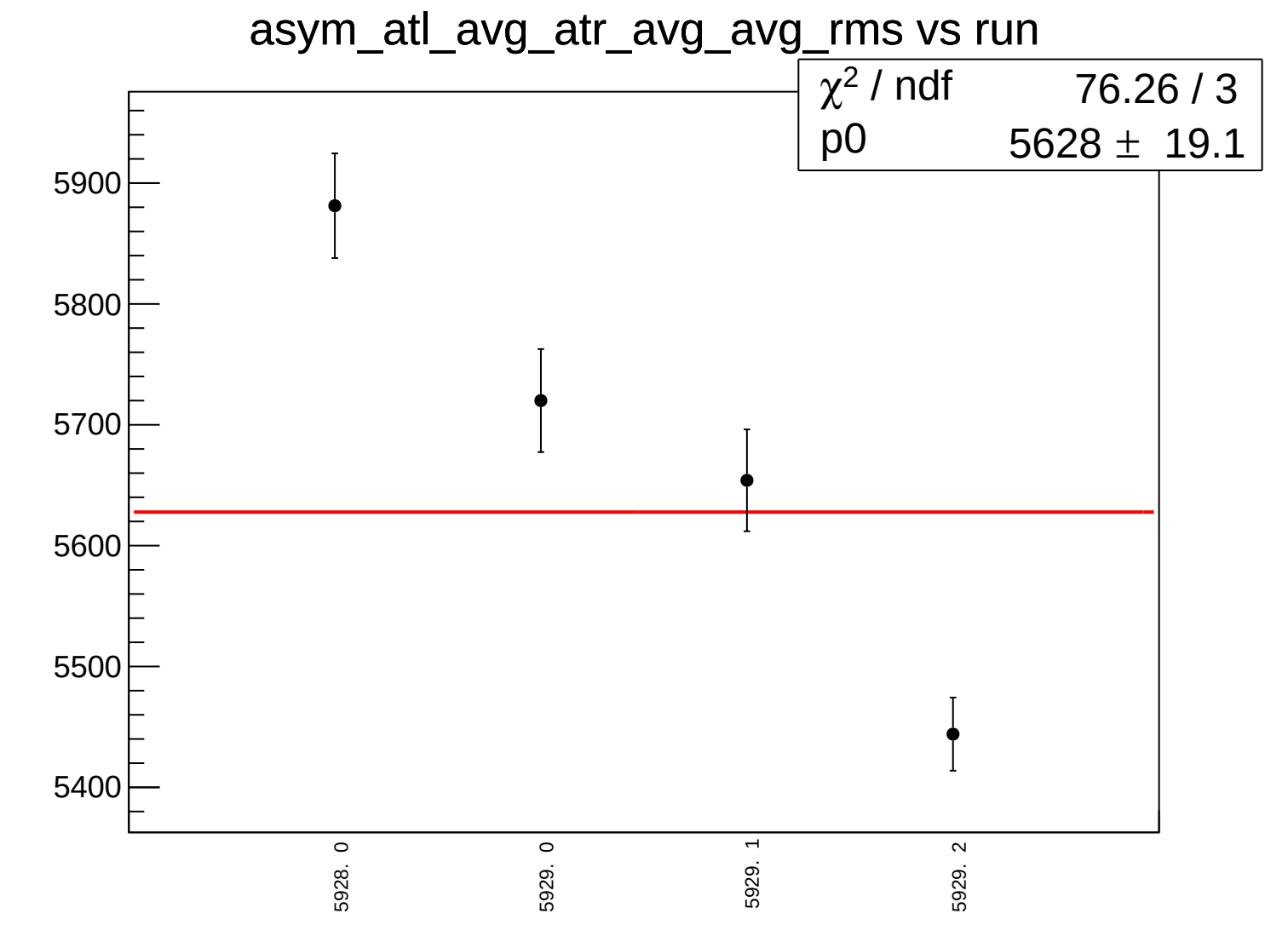

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

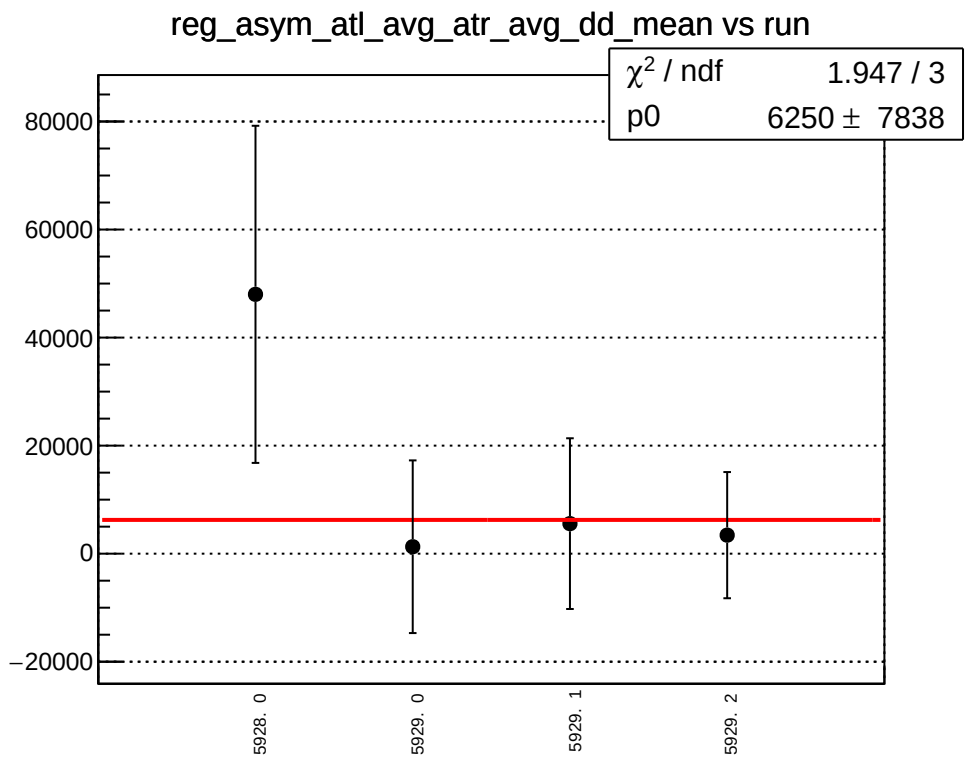

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

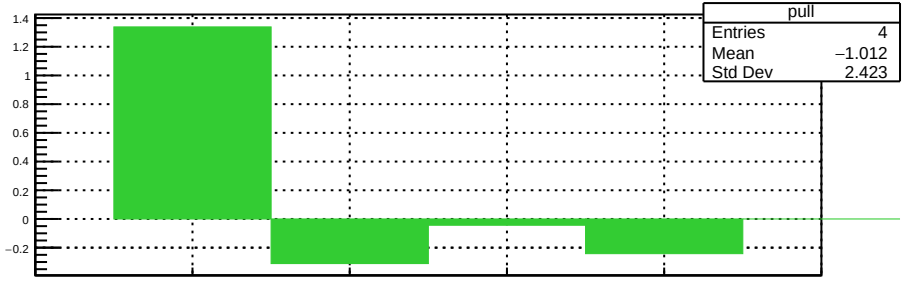

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 2.606 / 3
p0 −3.077e+04 ± 2.702e+04
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2

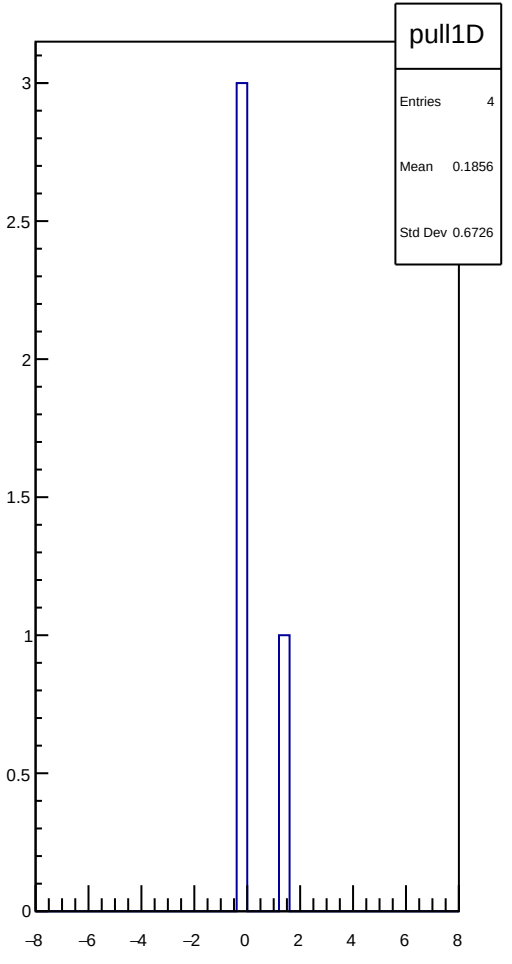

pull
Entries 4
Mean 1.304
Std Dev 4.867
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

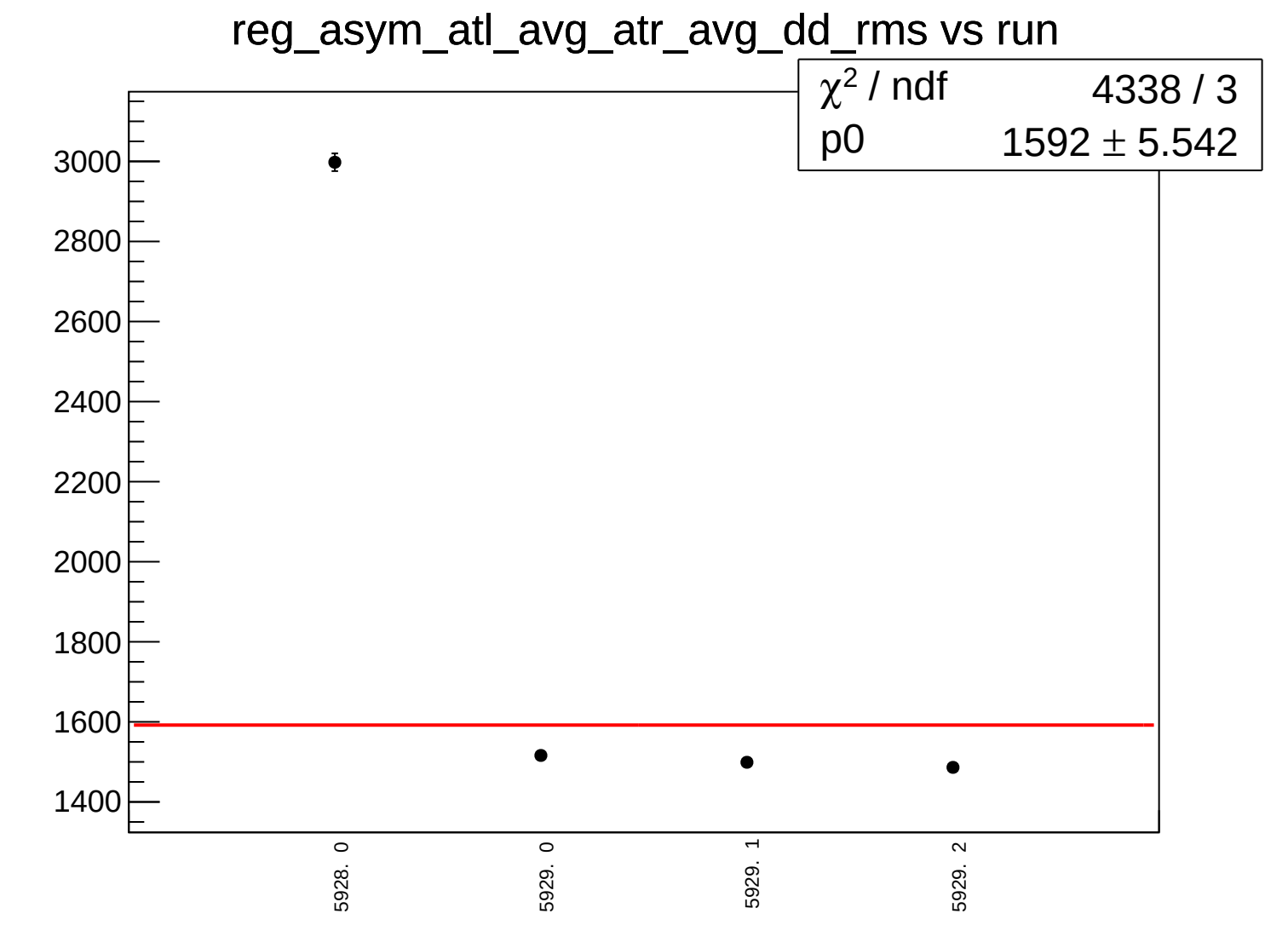

pull1D
Entries 4
Mean 0.02064
Std Dev 0.8069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

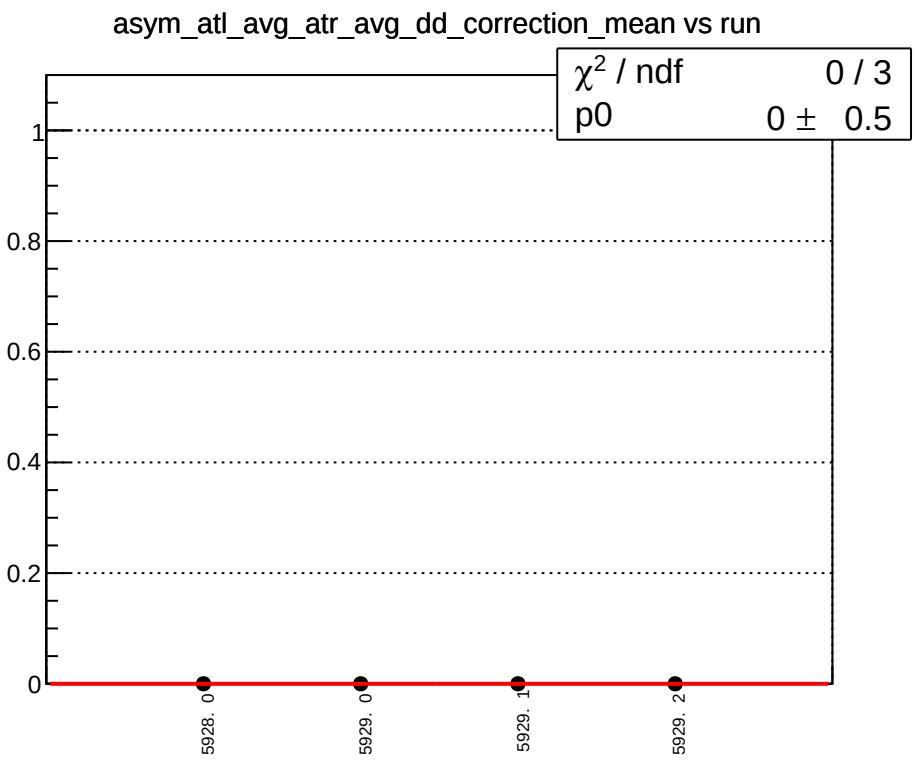

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 76.26 / 3
p0 5628 ± 19.1
5900
5800
5700
5600
5500
5400
5928. 0
5929. 0
5929. 1
5929. 2

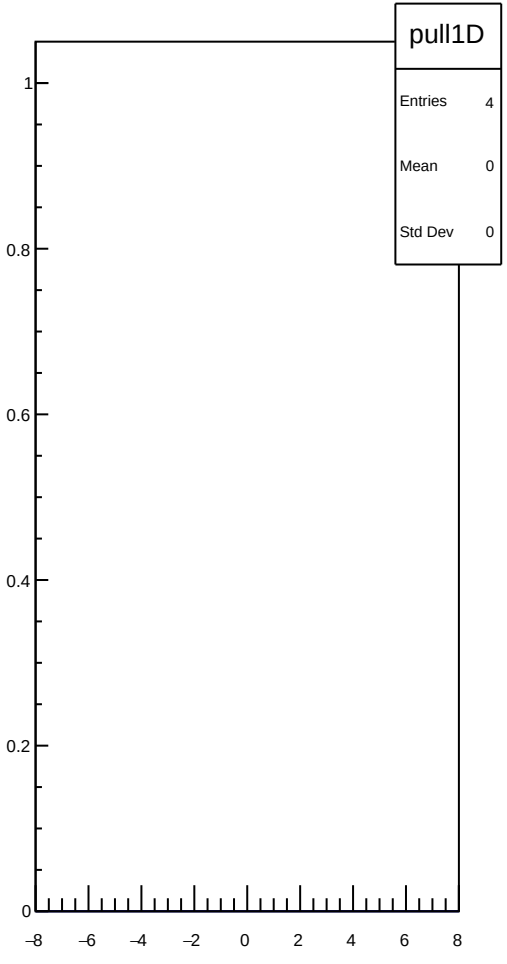

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 1.947 / 3
p0 6250 ± 7838
80000
60000
40000
20000
0
−20000
5928. 0
5929. 0
5929. 1
5929. 2

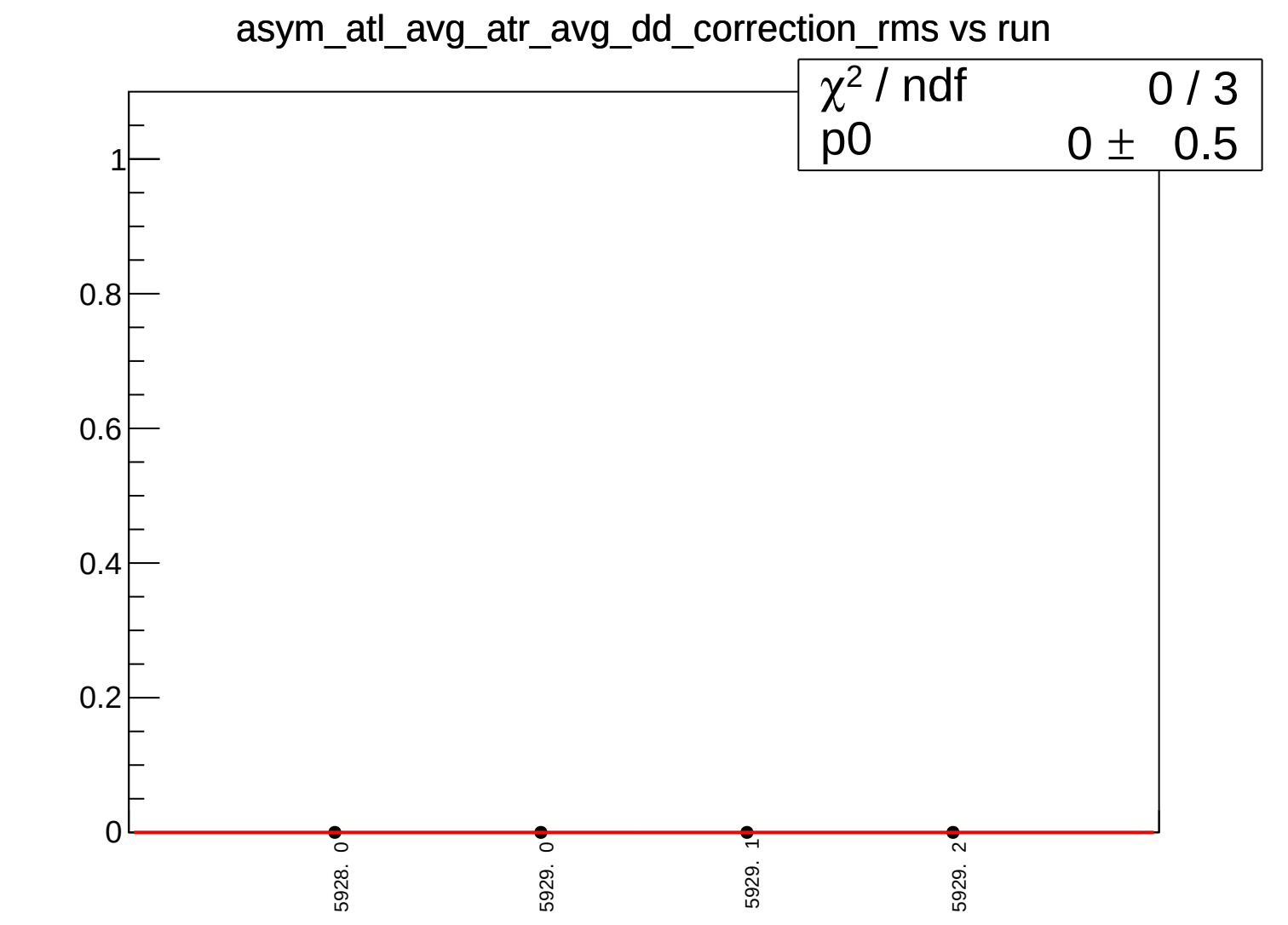

pull
Entries 4
Mean −1.012
Std Dev 2.423
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

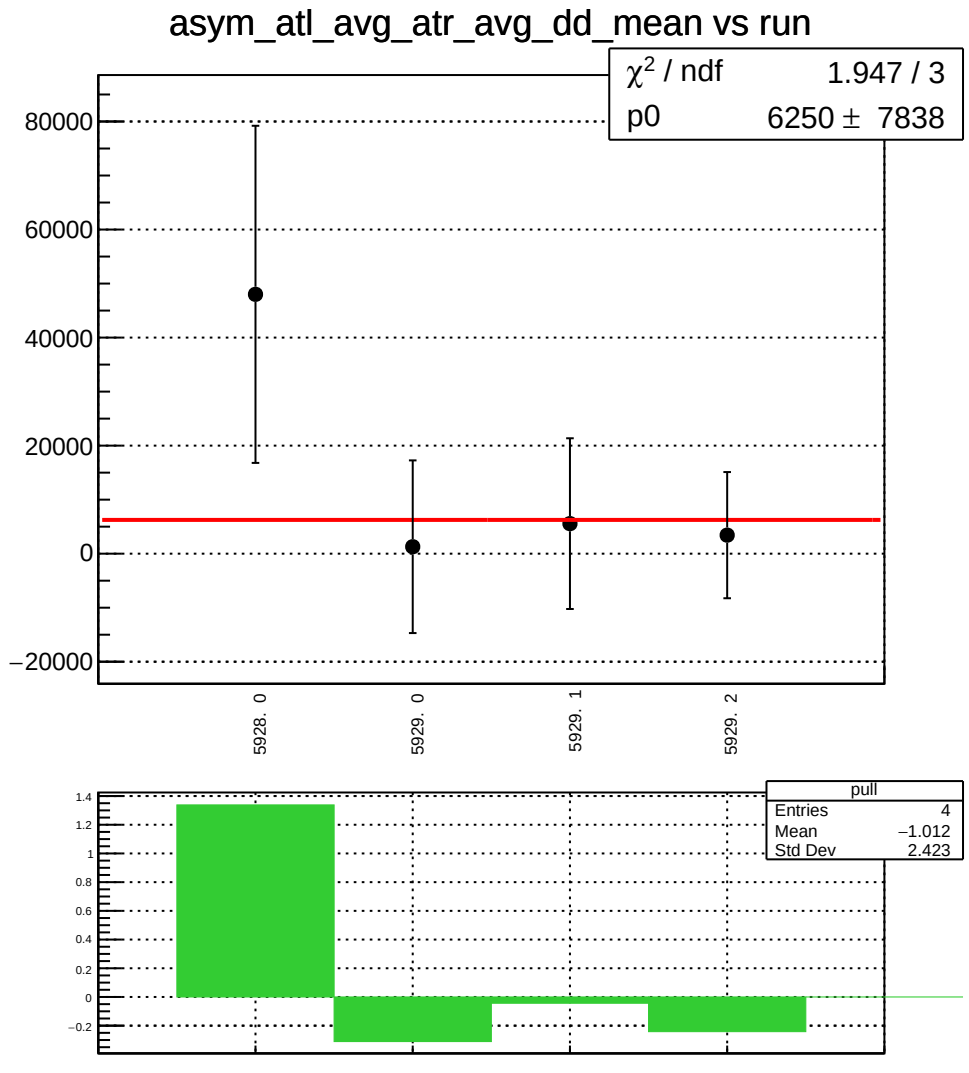

pull1D
Entries 4
Mean 0.1856
Std Dev 0.6726
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

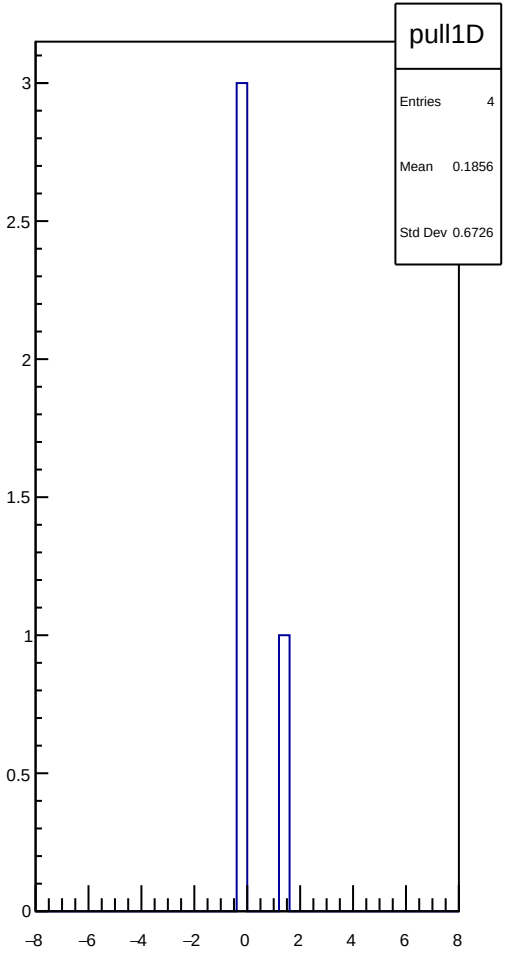

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4338 / 3
p0 1592 ± 5.542
3000
2800
2600
2400
2200
2000
1800
1600
1400
5928. 0
5929. 0
5929. 1
5929. 2

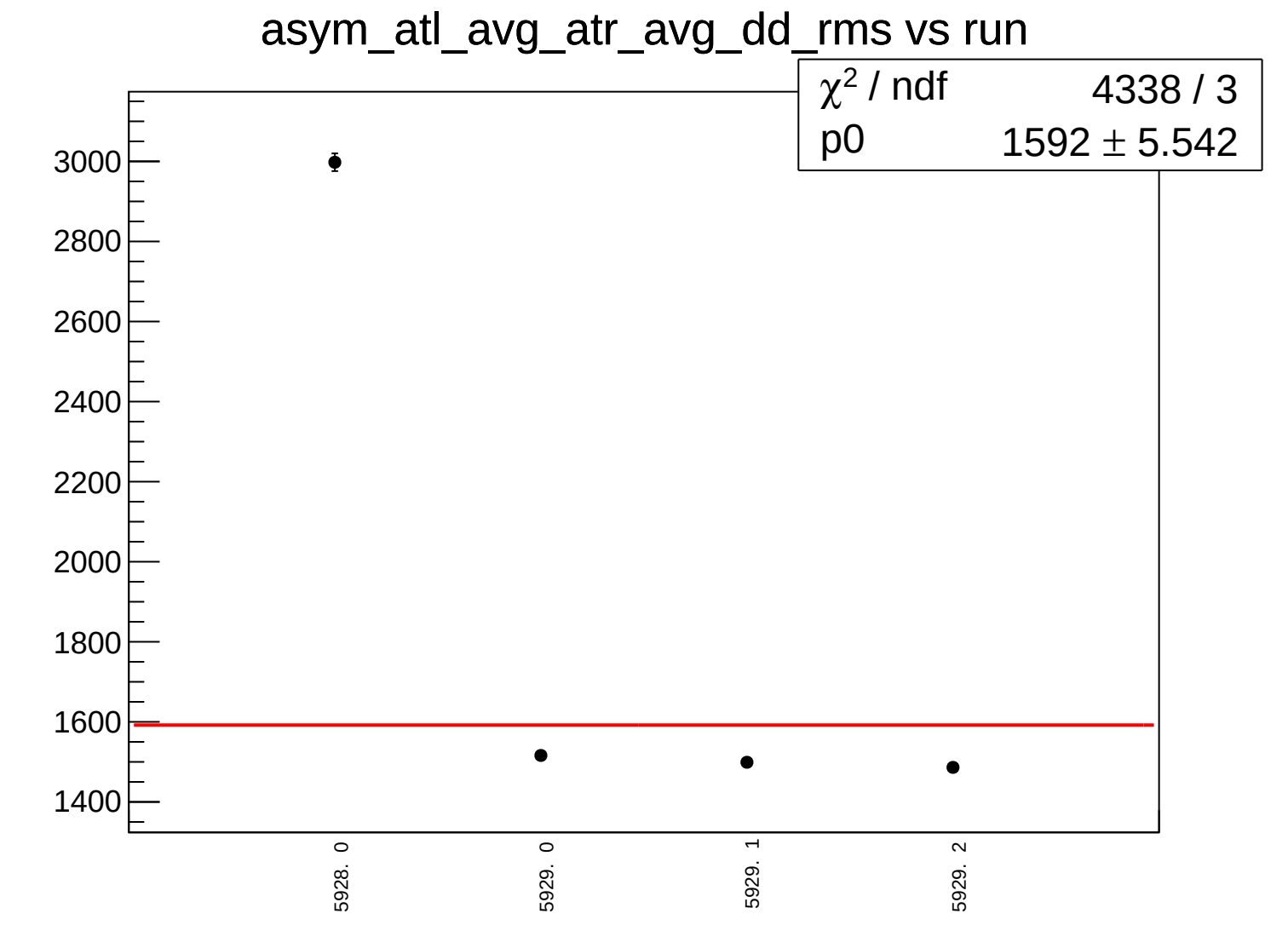

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

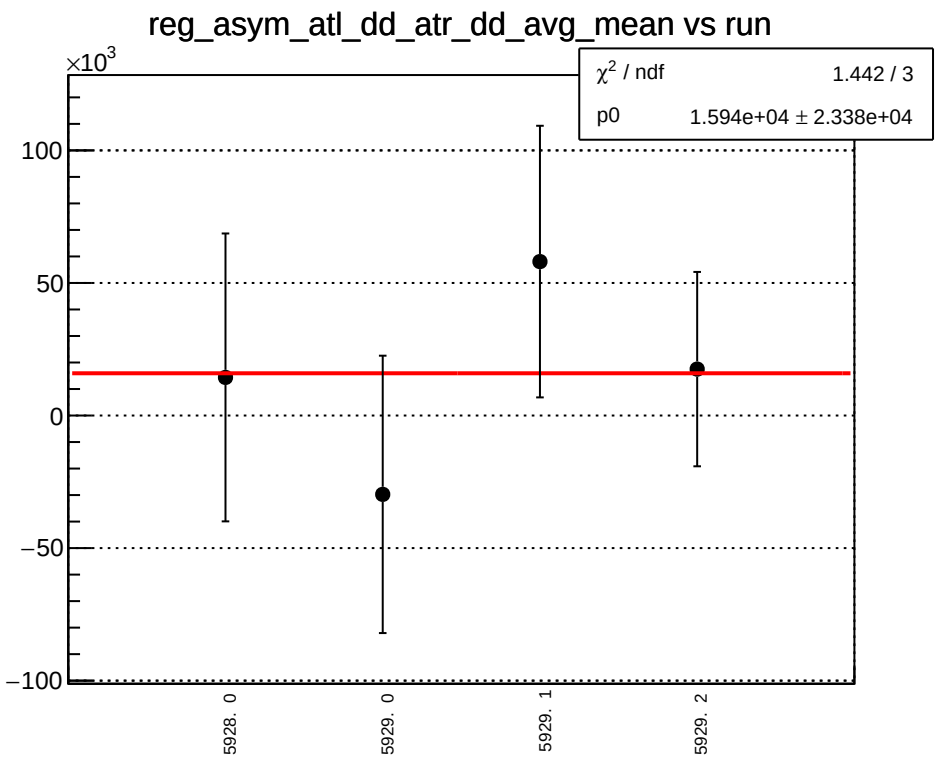

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

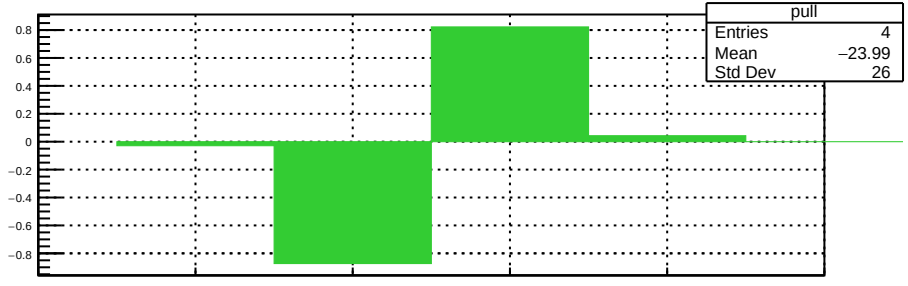

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

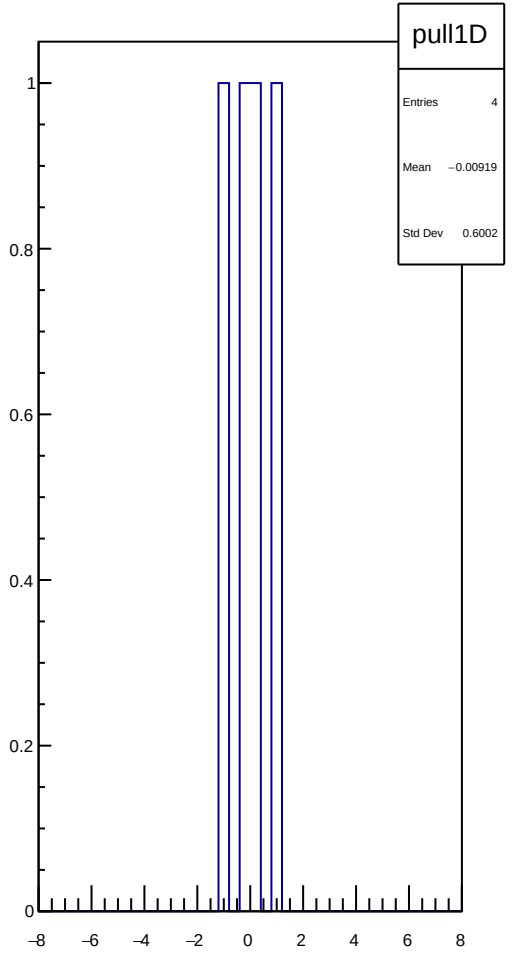

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 1.947 / 3
p0 6250 ± 7838
80000
60000
40000
20000
0
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.012
Std Dev 2.423
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

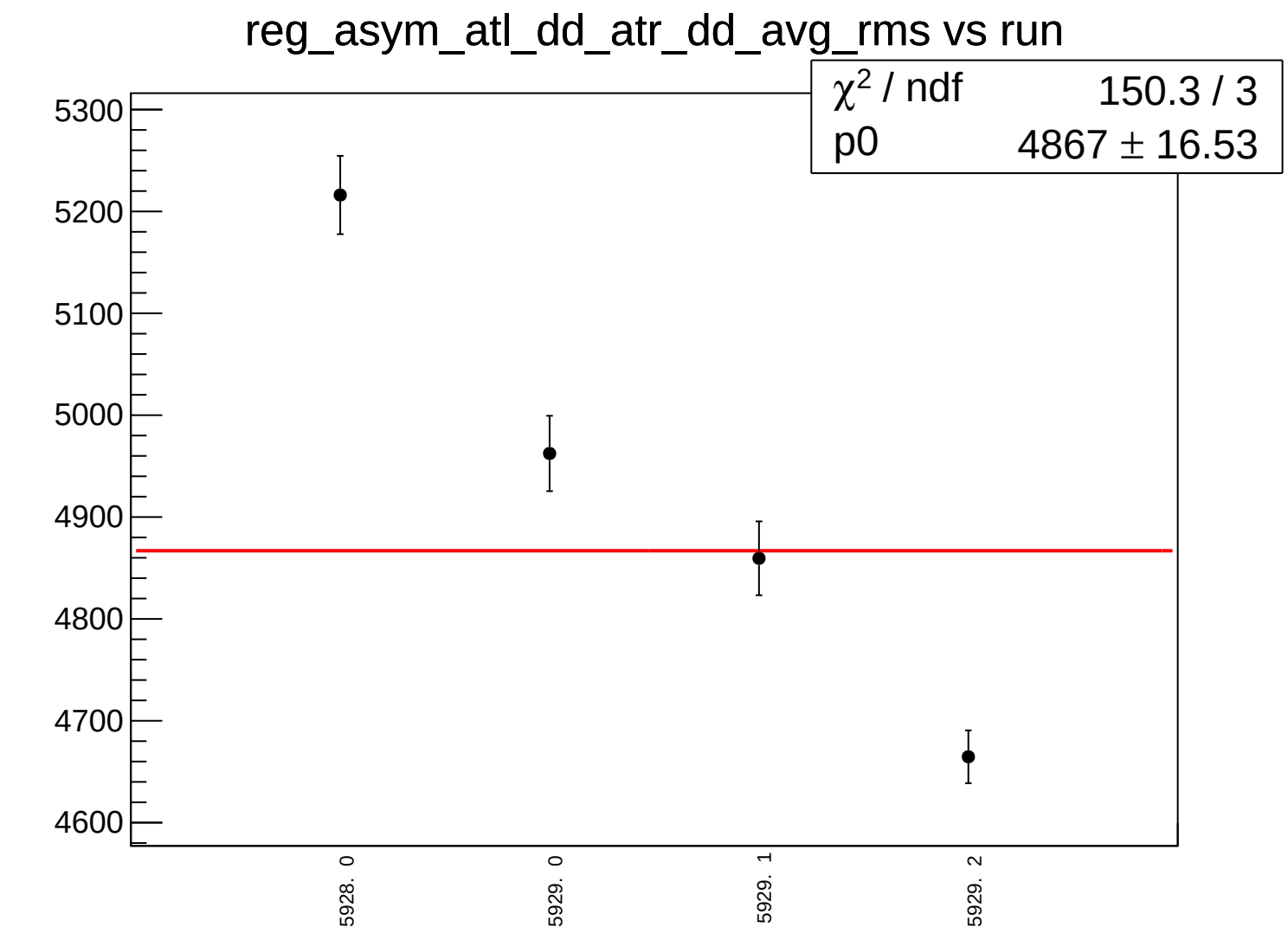

pull1D
Entries 4
Mean 0.1856
Std Dev 0.6726
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

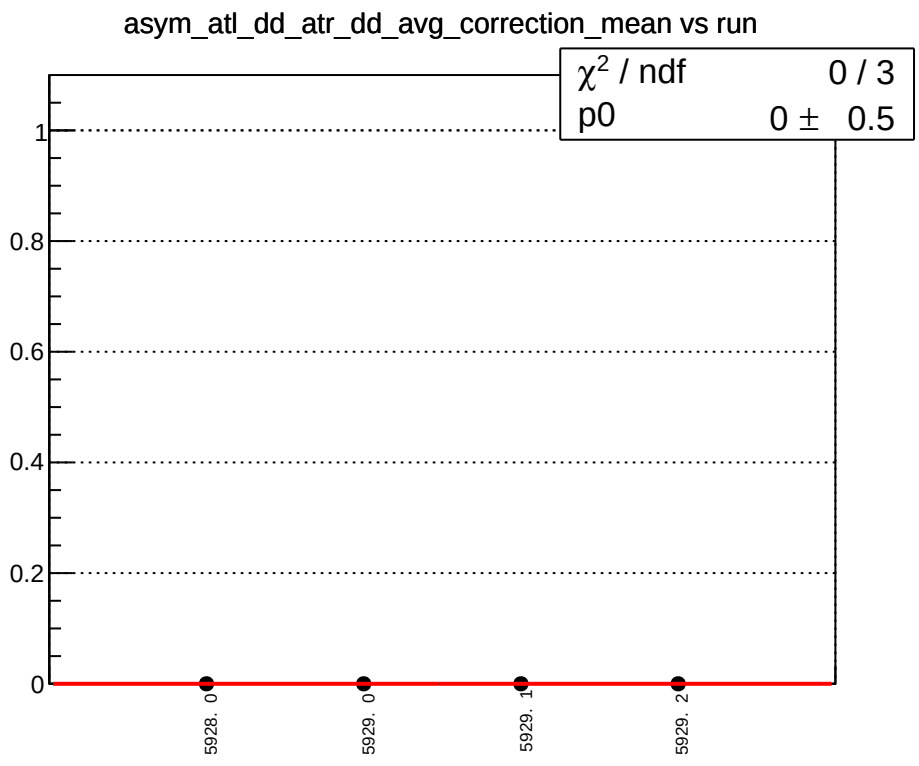

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4338 / 3
p0 1592 ± 5.542
3000
2800
2600
2400
2200
2000
1800
1600
1400
5928. 0
5929. 0
5929. 1
5929. 2

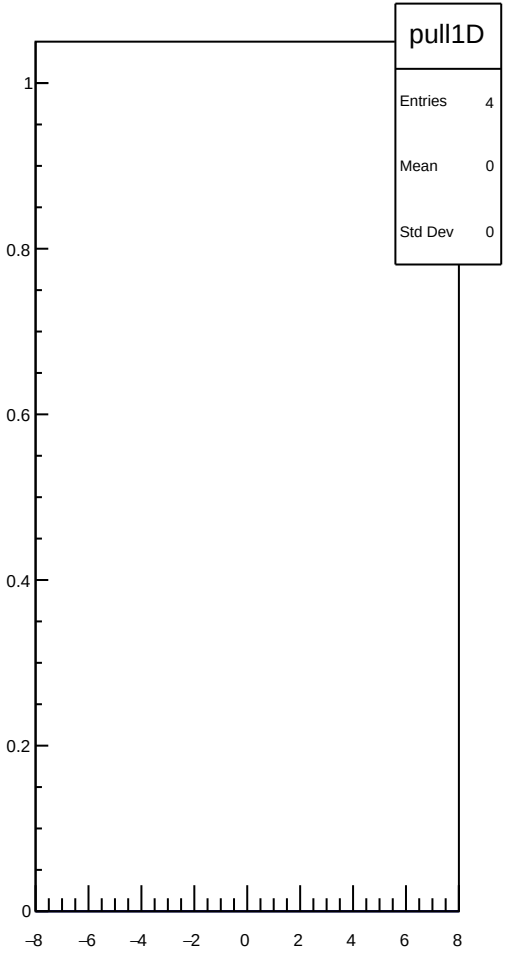

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 1.442 / 3
p0 1.594e+04 ± 2.338e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2

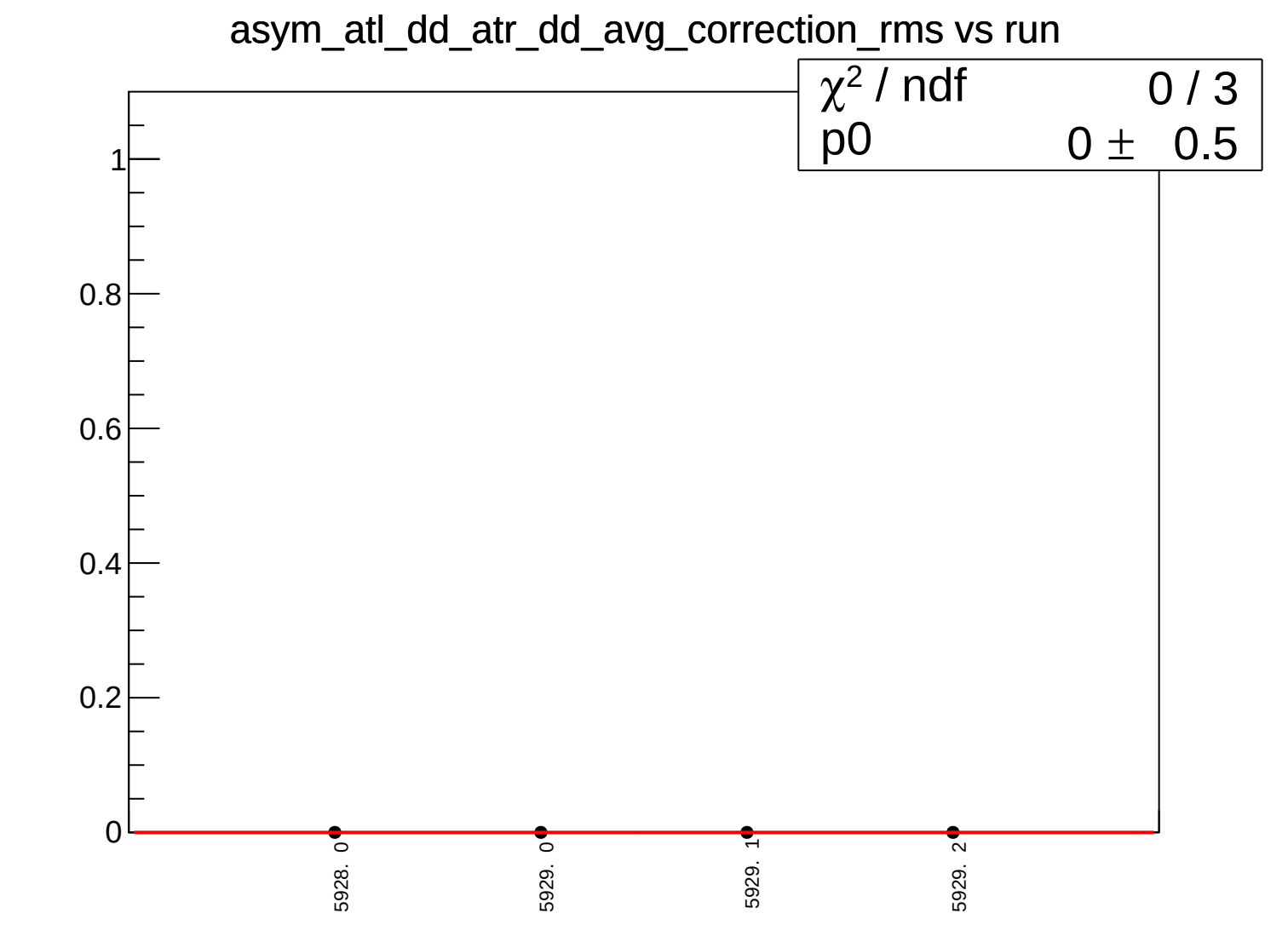

pull
Entries 4
Mean −23.99
Std Dev 26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

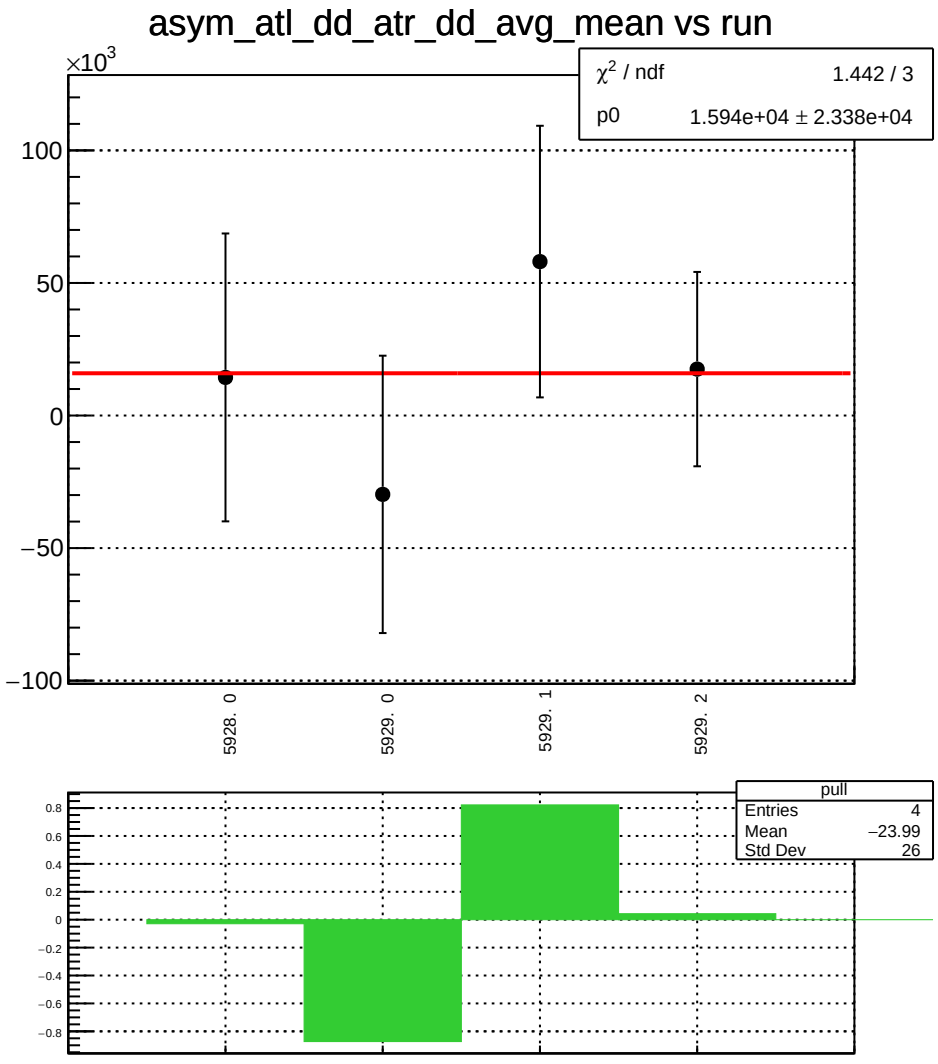

pull1D
Entries 4
Mean −0.00919
Std Dev 0.6002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

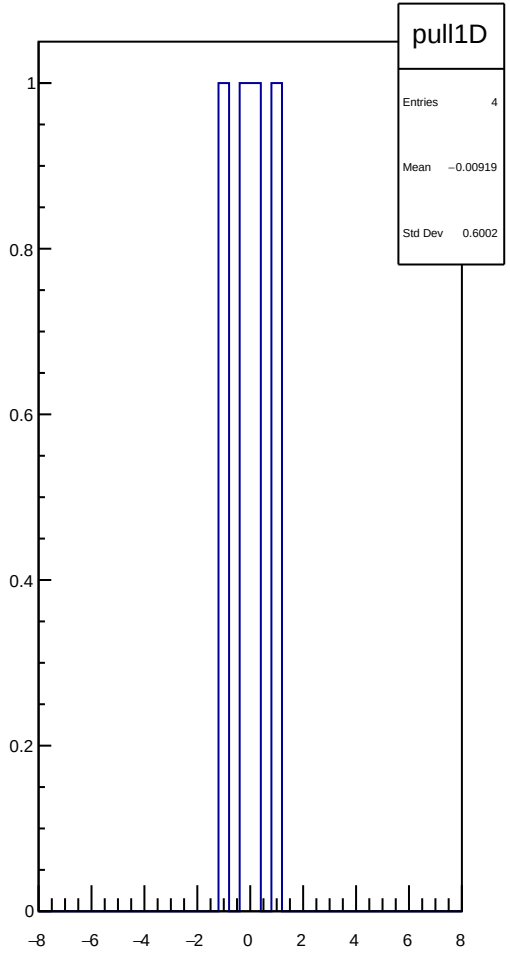

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 150.3 / 3
p0 4867 ± 16.53
5300
5200
5100
5000
4900
4800
4700
4600
5928. 0
5929. 0
5929. 1
5929. 2

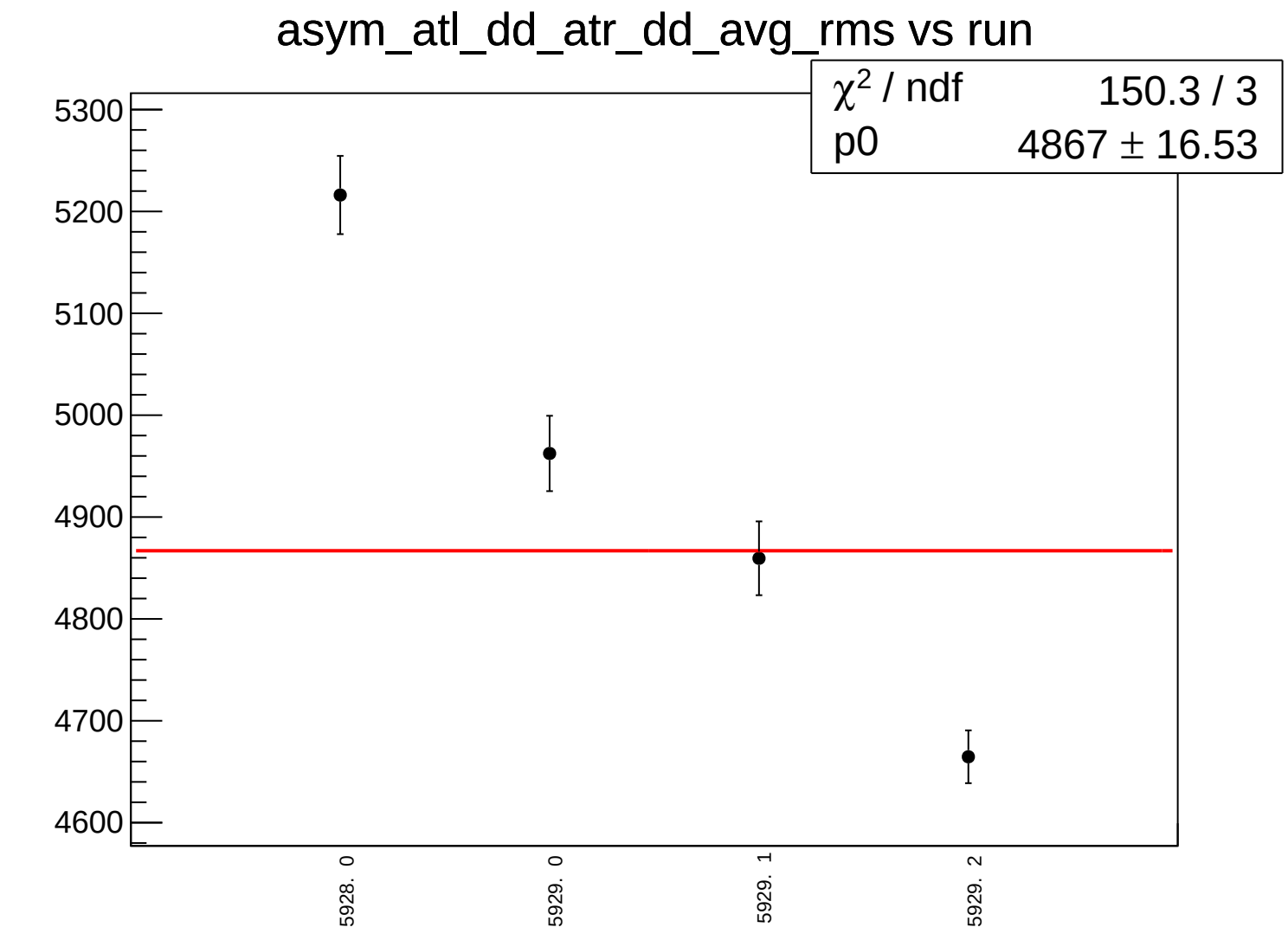

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

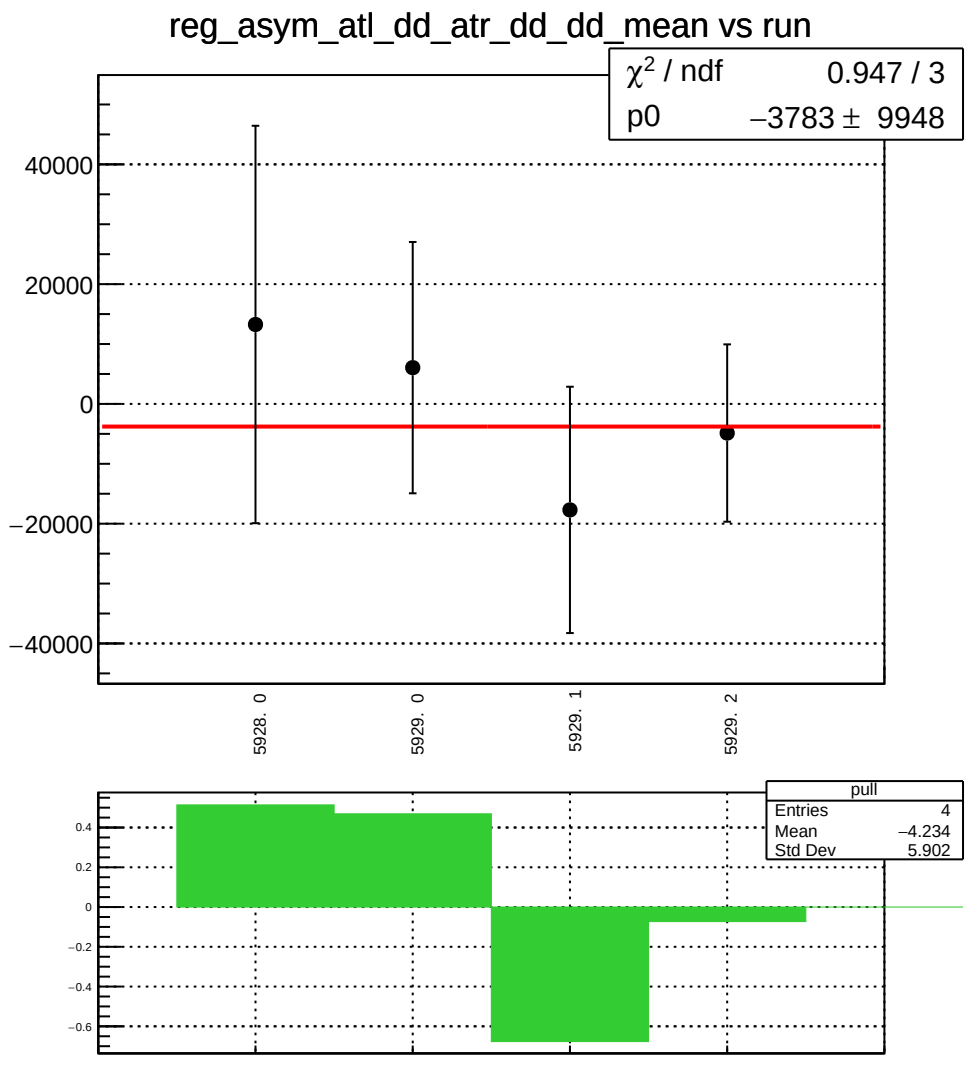

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

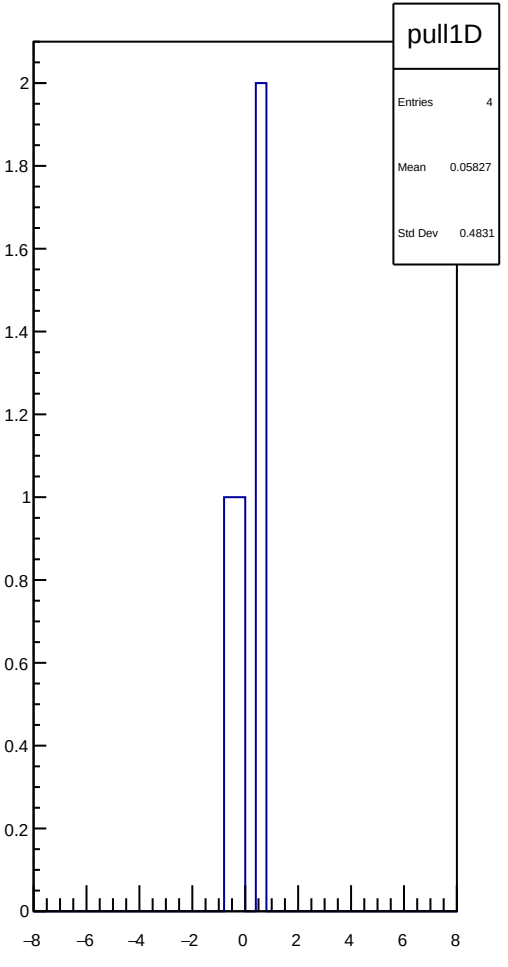

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

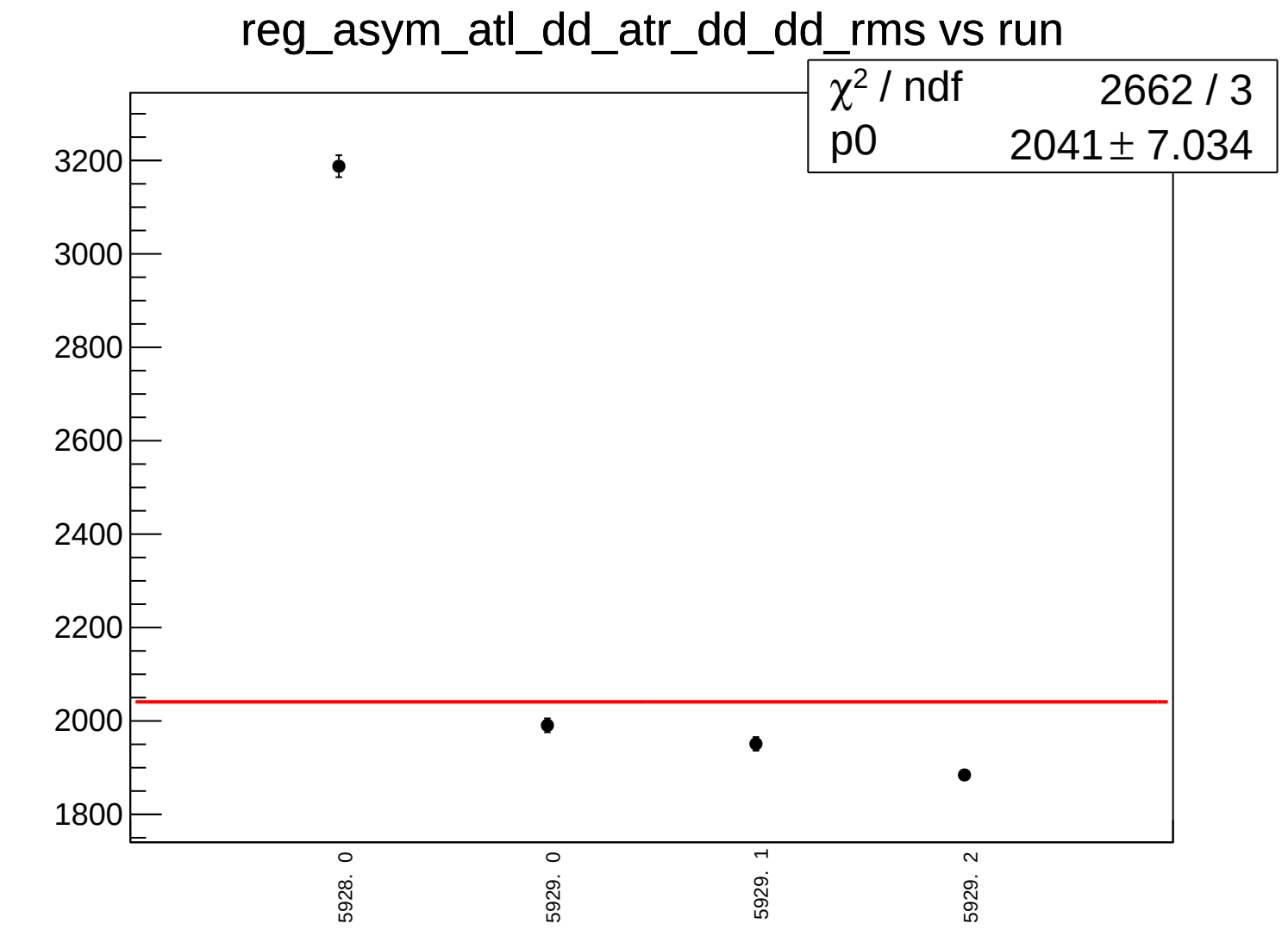

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 1.442 / 3
p0 1.594e+04 ± 2.338e+04
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −23.99
Std Dev 26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

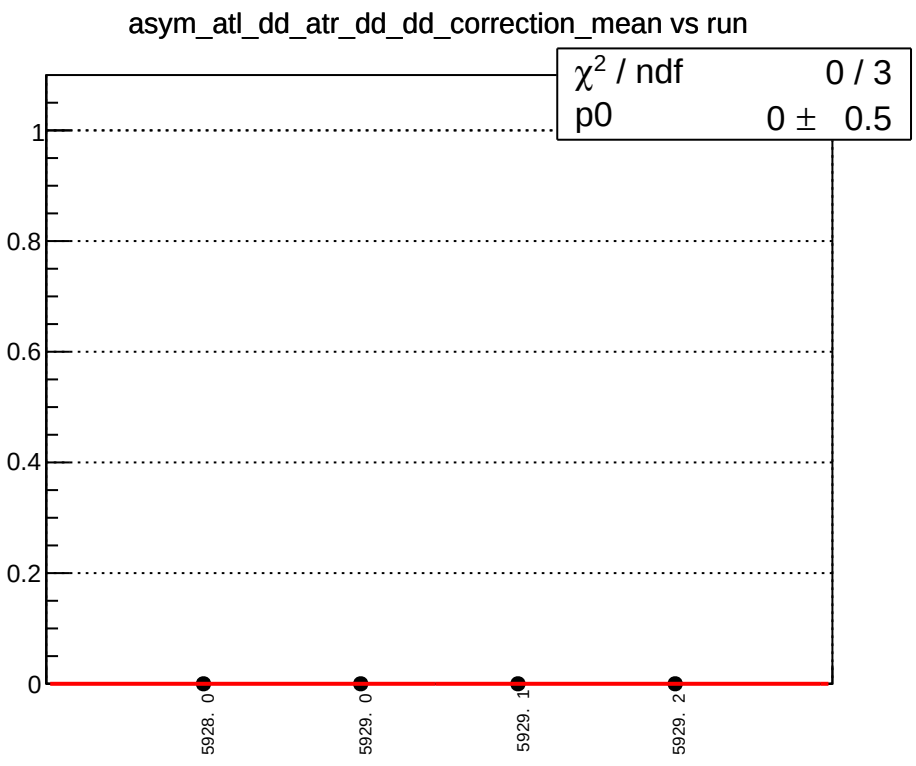

pull1D
Entries 4
Mean −0.00919
Std Dev 0.6002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

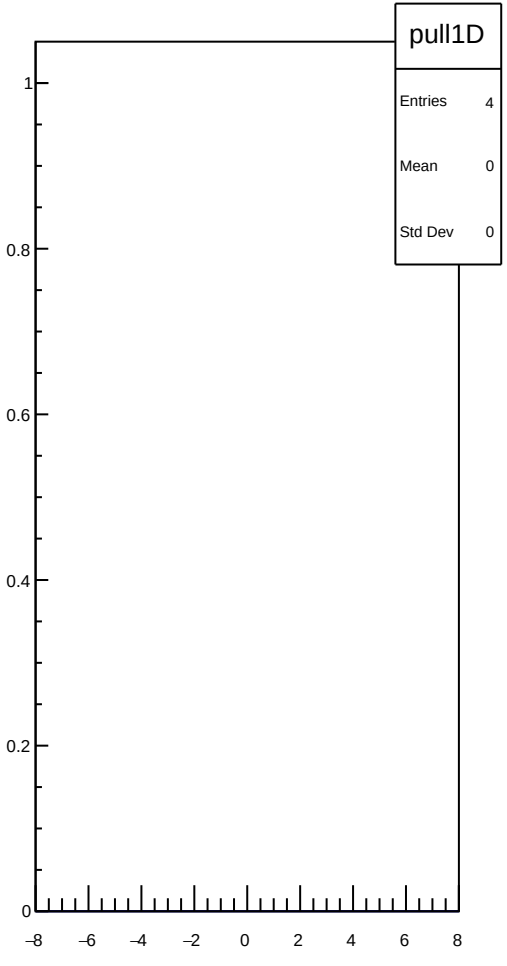

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 150.3 / 3
p0 4867 ± 16.53
5300
5200
5100
5000
4900
4800
4700
4600
5928. 0
5929. 0
5929. 1
5929. 2

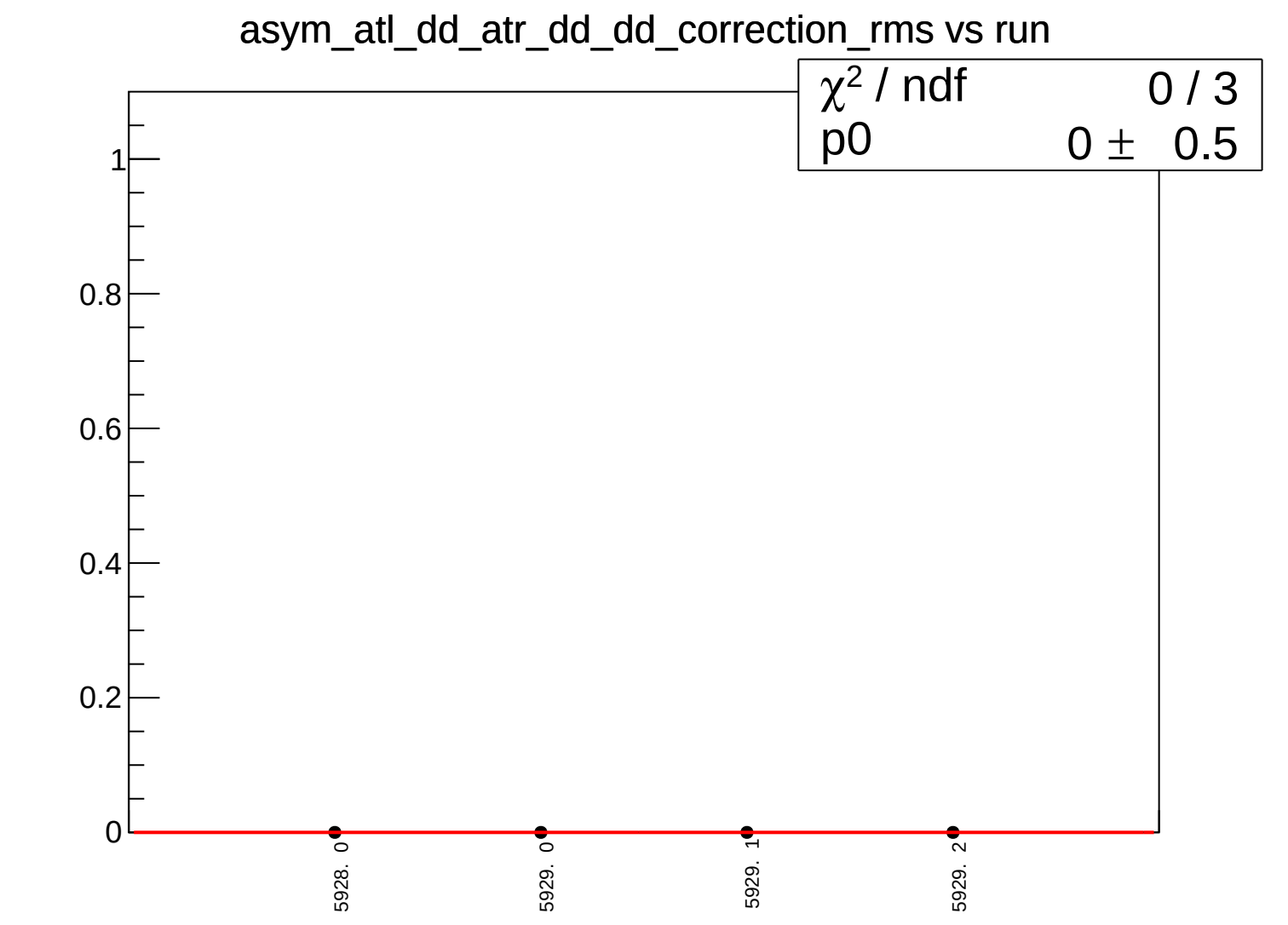

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 0.947 / 3
p0 −3783 ± 9948
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.234
Std Dev 5.902
0.4
0.2
0
−0.2
−0.4
−0.6

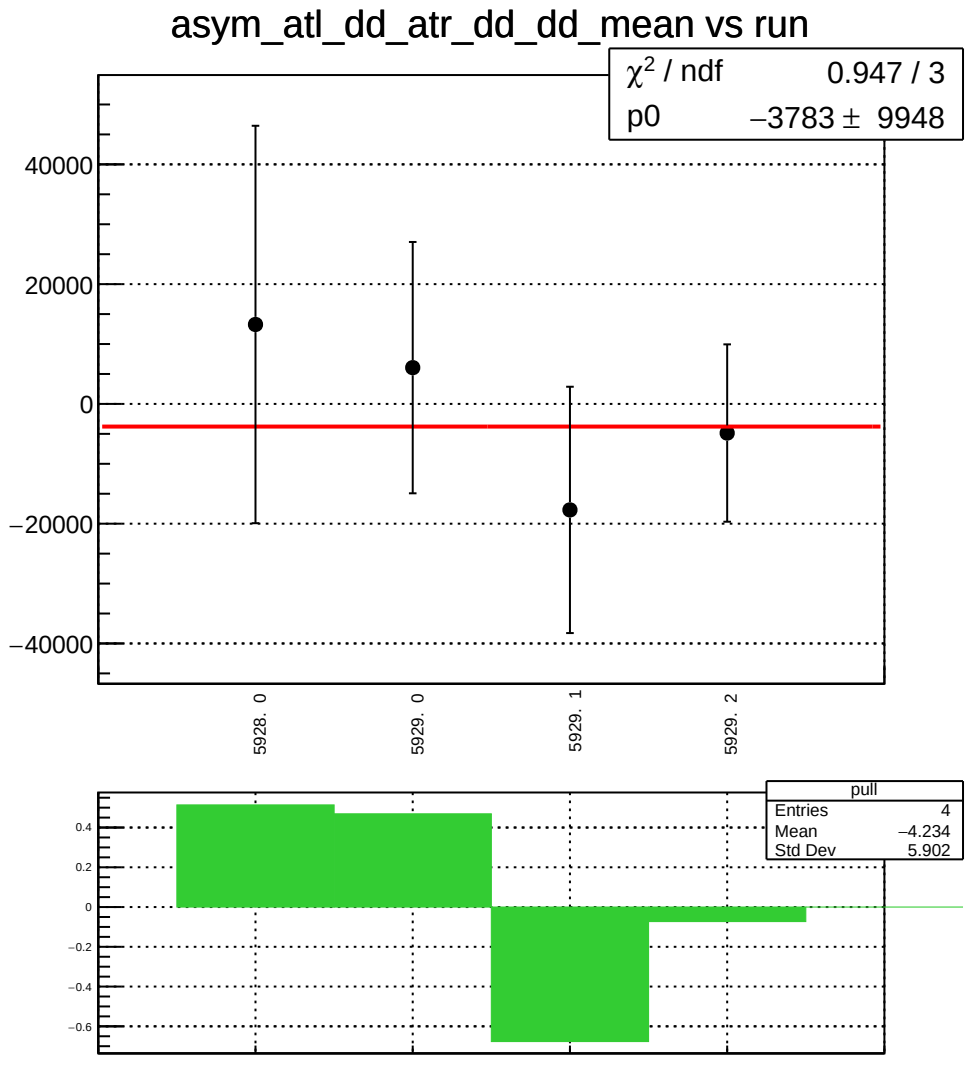

pull1D
Entries 4
Mean 0.05827
Std Dev 0.4831
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

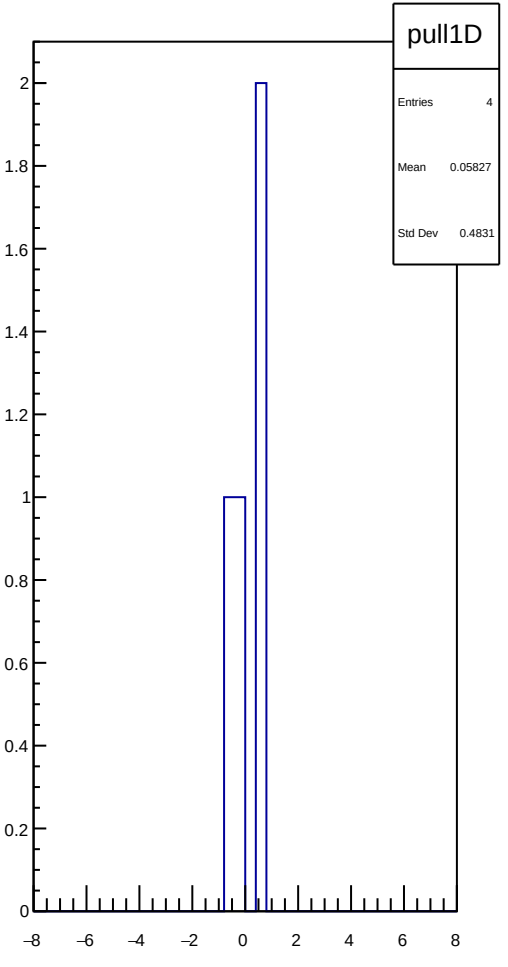

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2662 / 3
p0 2041 ± 7.034
3200
3000
2800
2600
2400
2200
2000
1800
5928. 0
5929. 0
5929. 1
5929. 2

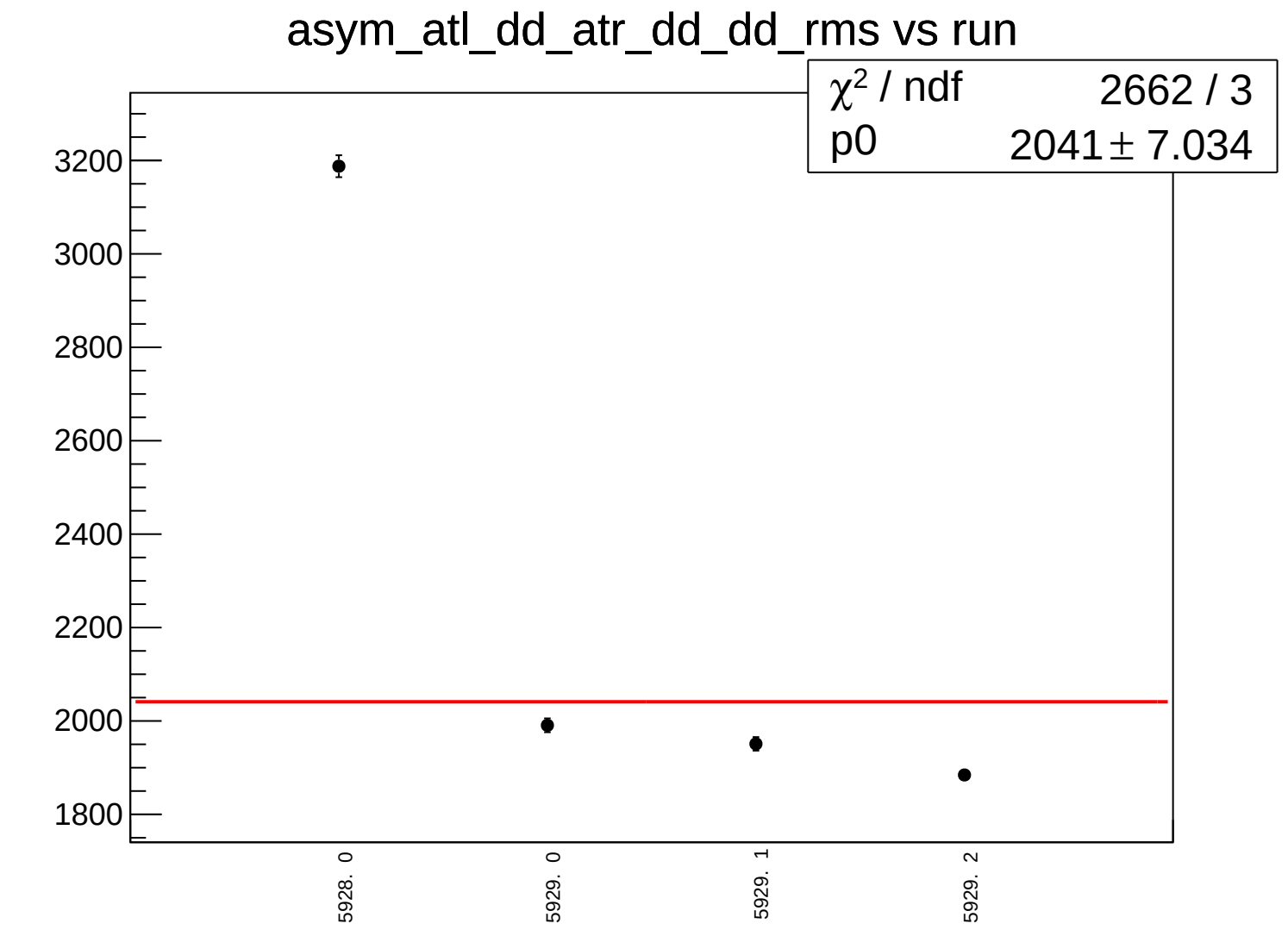

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

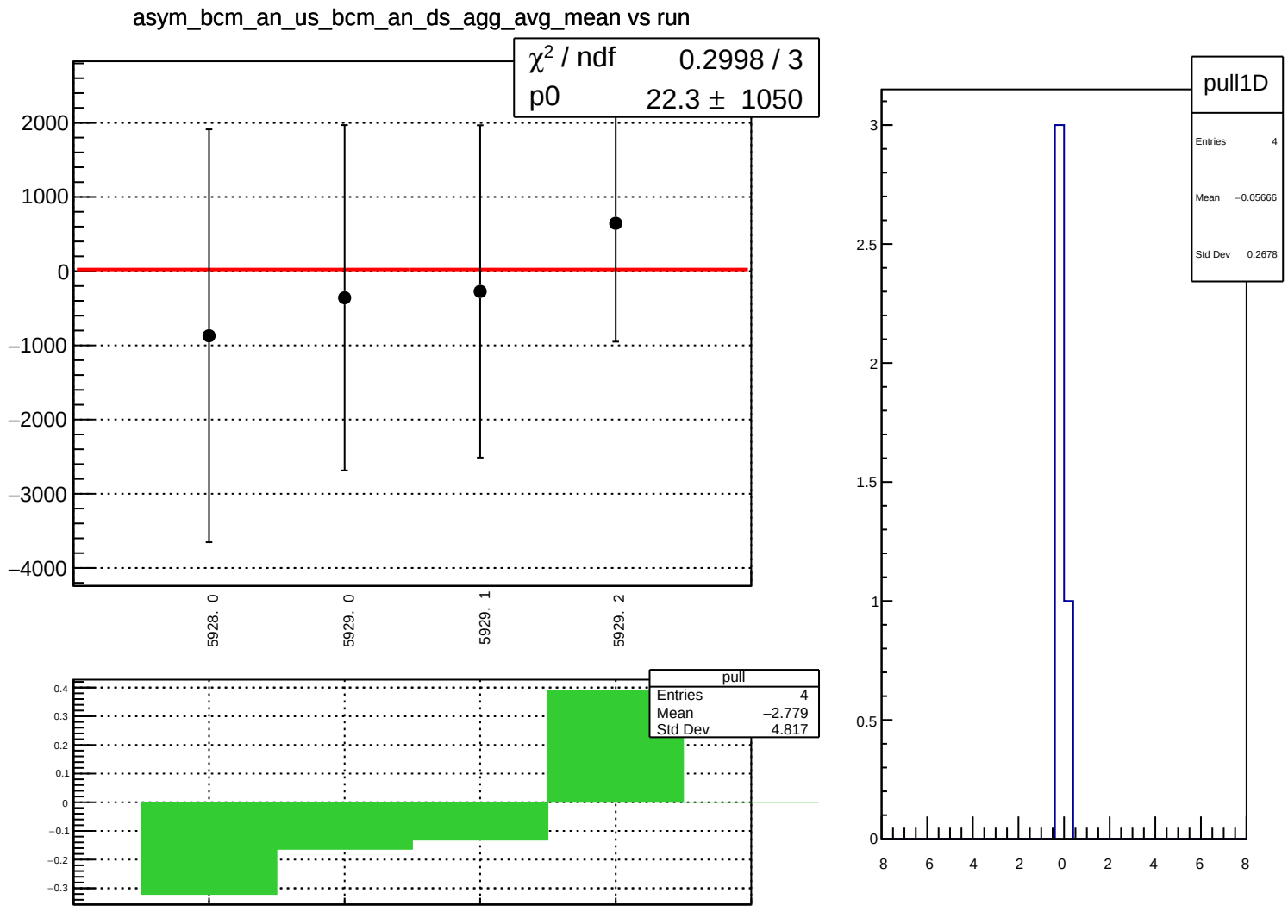

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

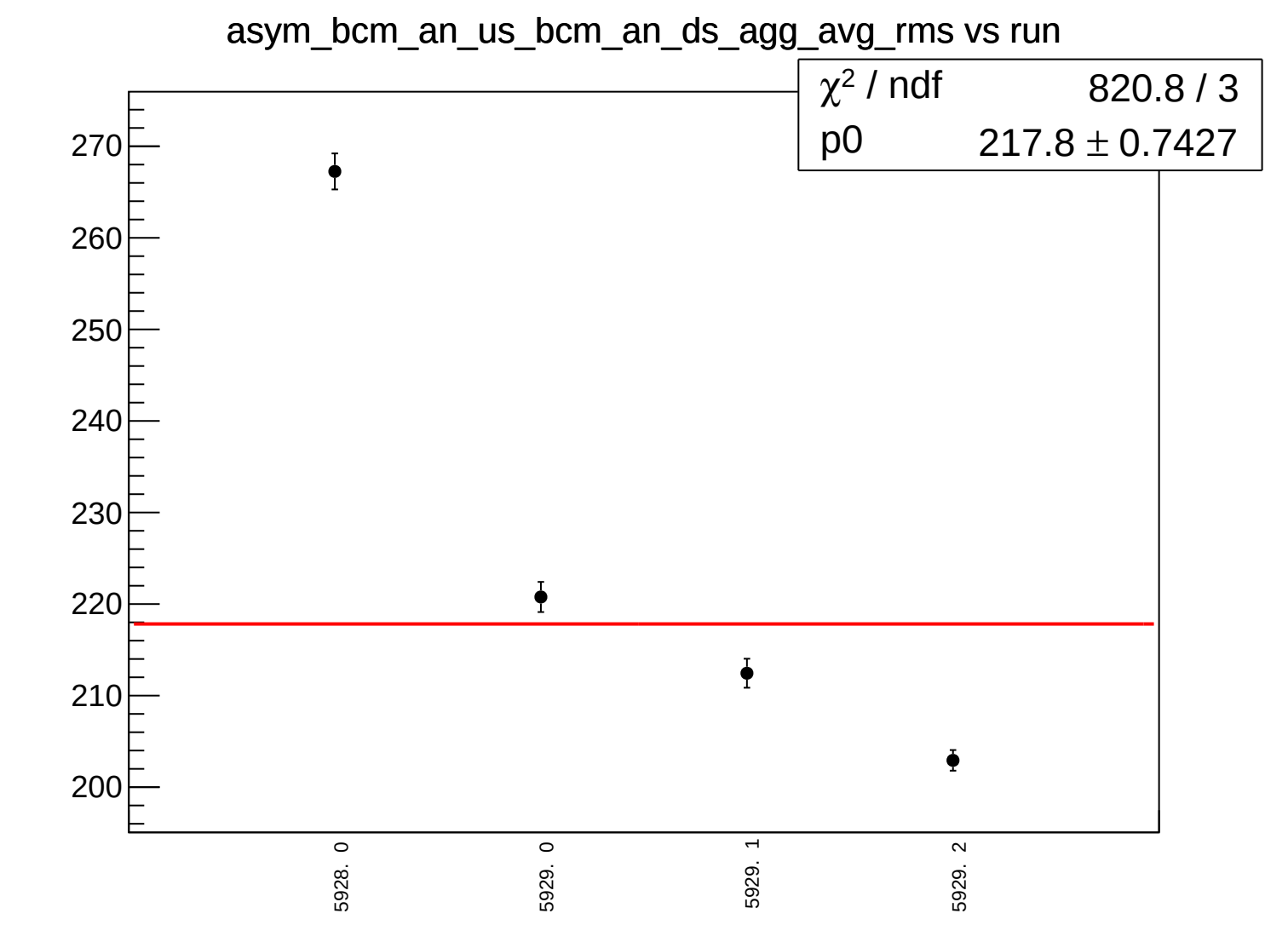

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 3
p0 0 ± 0.5
1
0.8
0.6
0.4
0.2
0
5928. 0
5929. 0
5929. 1
5929. 2

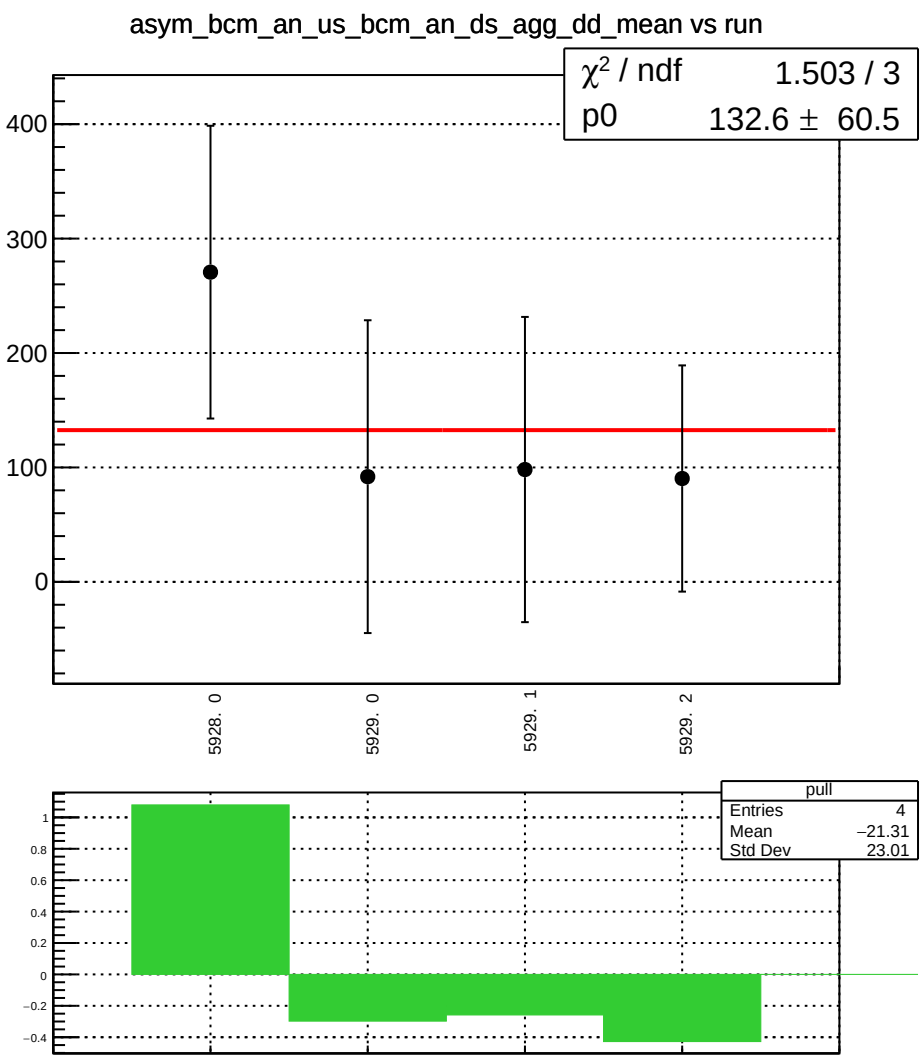

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 0.947 / 3
p0 −3783 ± 9948
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.234
Std Dev 5.902
0.4
0.2
0
−0.2
−0.4
−0.6

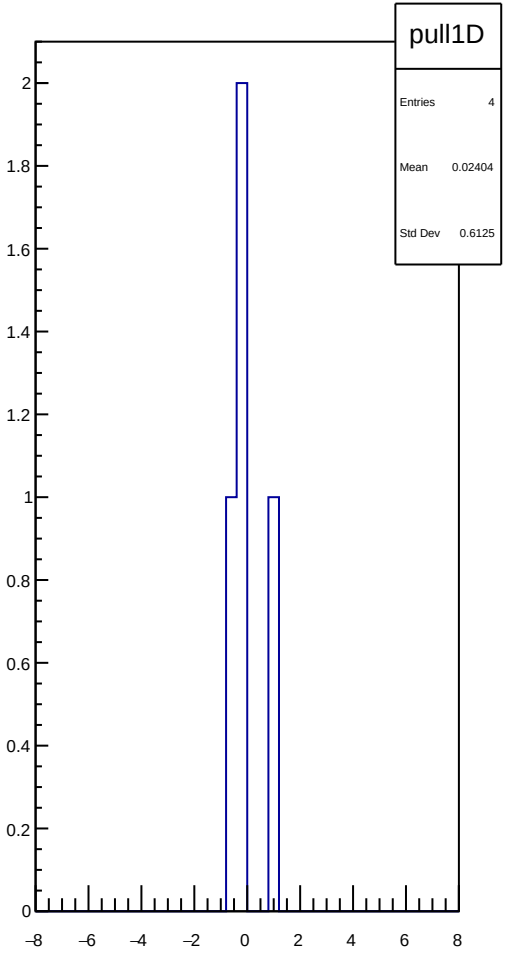

pull1D
Entries 4
Mean 0.05827
Std Dev 0.4831
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

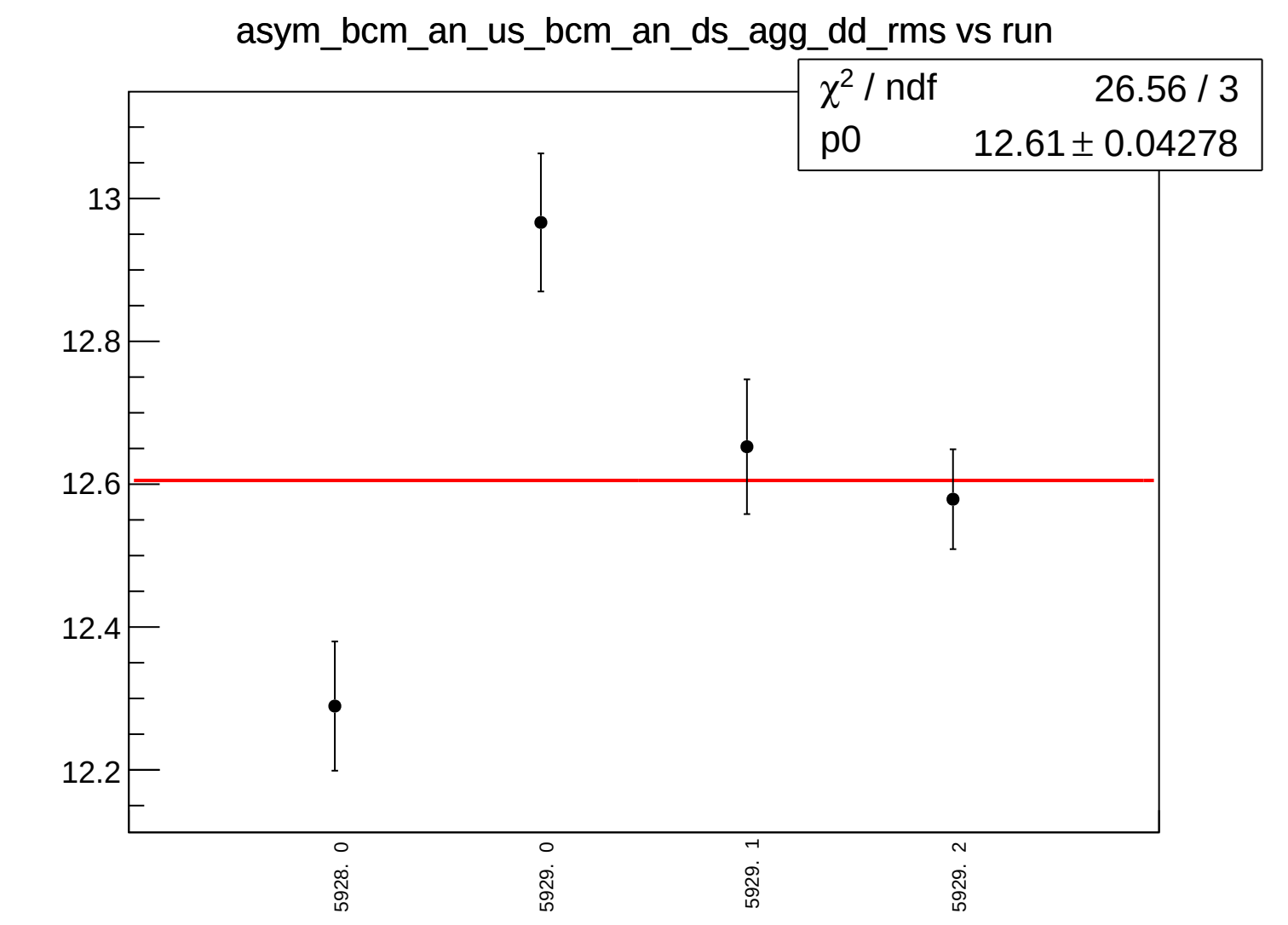

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2662 / 3
p0 2041 ± 7.034
3200
3000
2800
2600
2400
2200
2000
1800
5928. 0
5929. 0
5929. 1
5929. 2

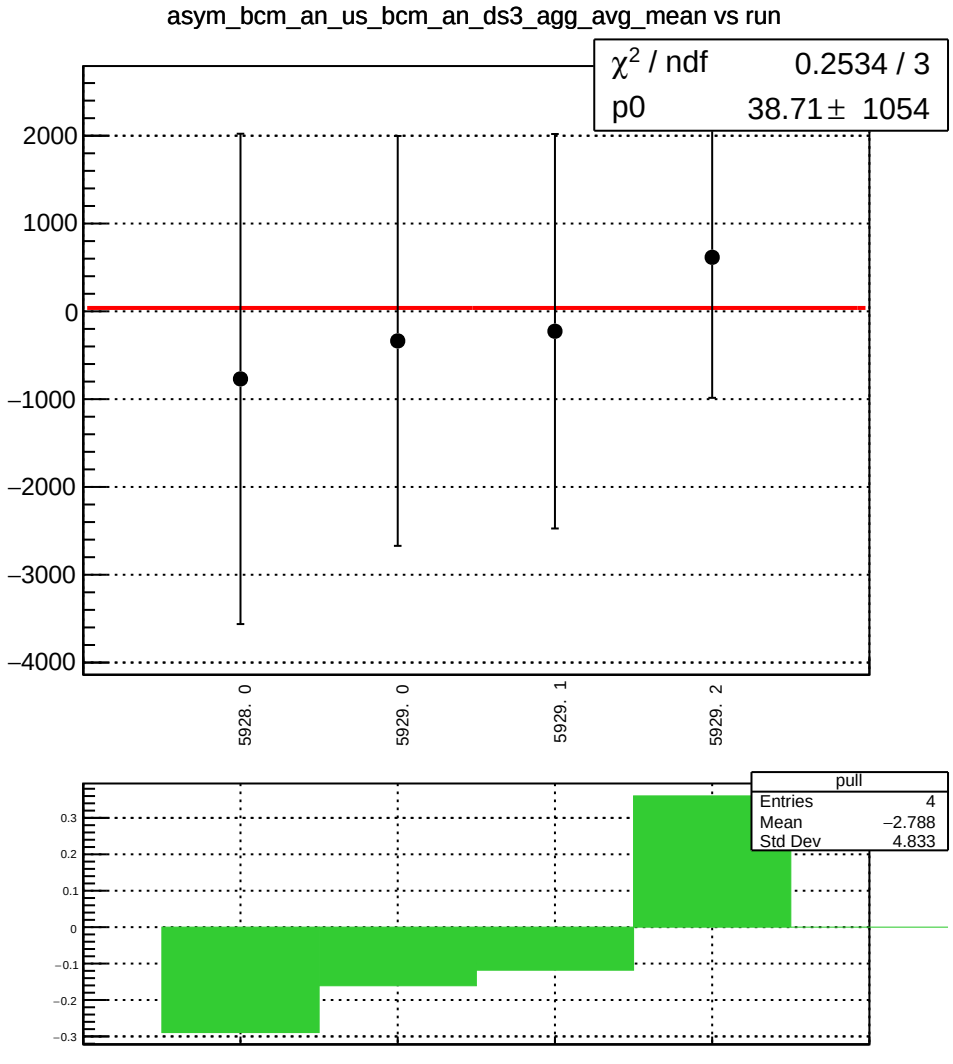

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.2998 / 3
p0 22.3 ± 1050
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.779
Std Dev 4.817
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.05666
Std Dev 0.2678
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

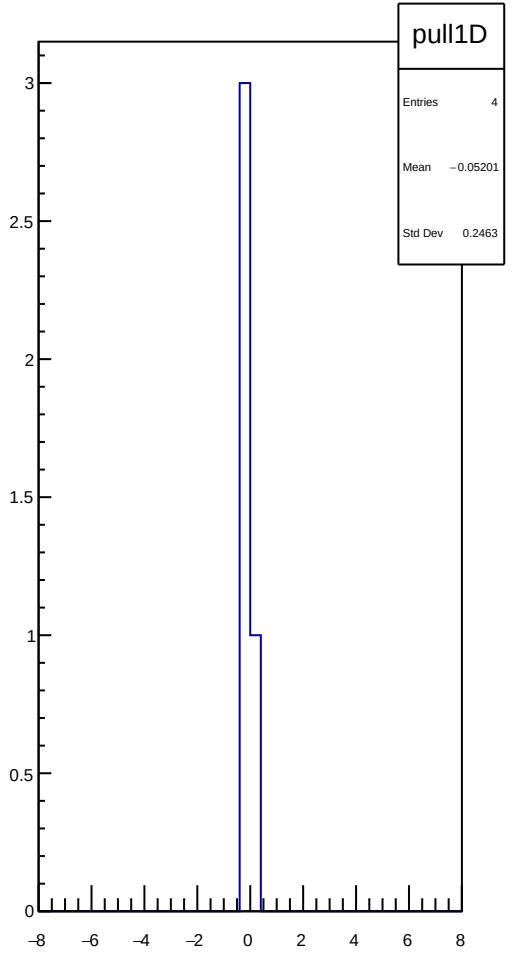

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 820.8 / 3
p0 217.8 ± 0.7427
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

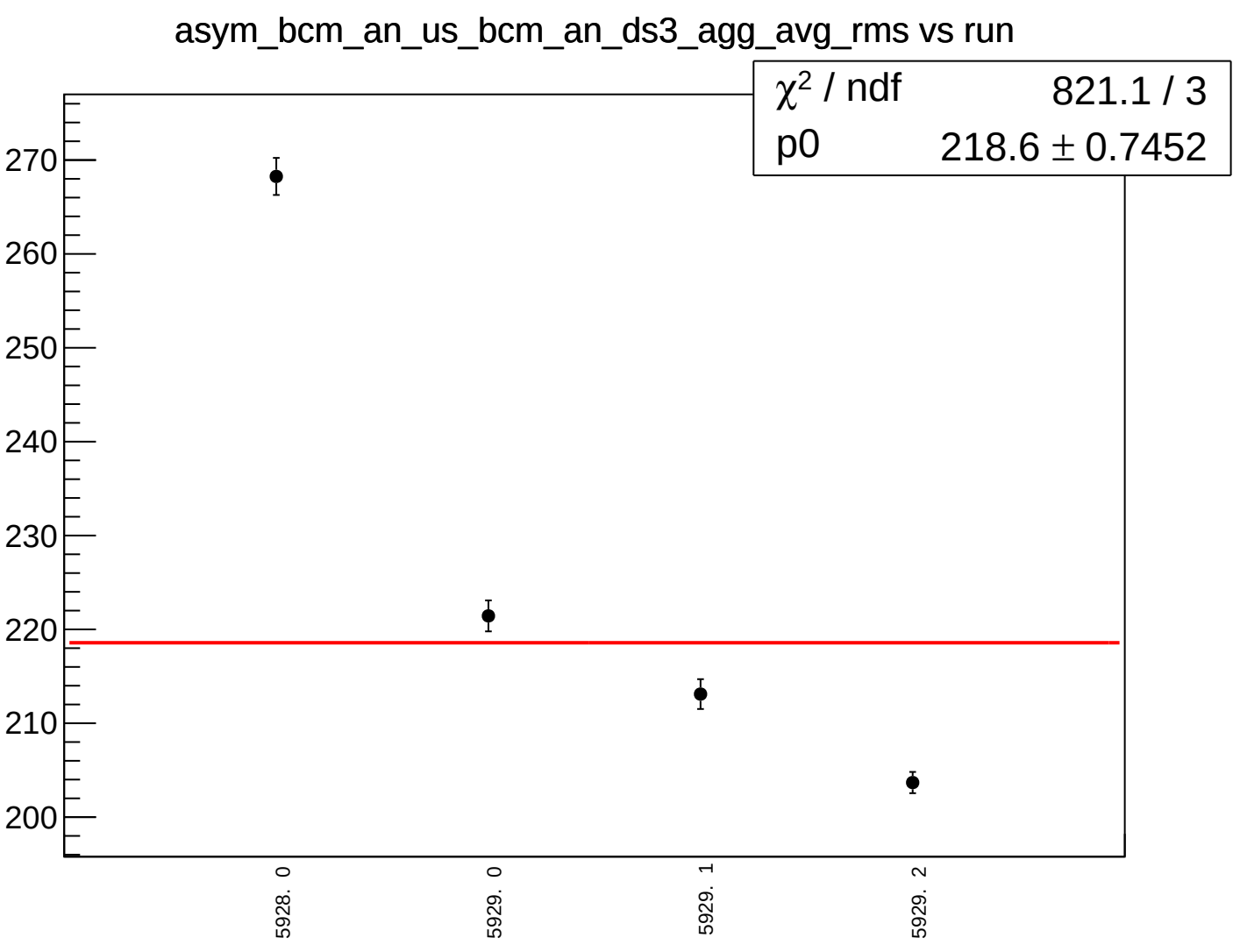

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 1.503 / 3
p0 132.6 ± 60.5
400
300
200
100
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −21.31
Std Dev 23.01
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

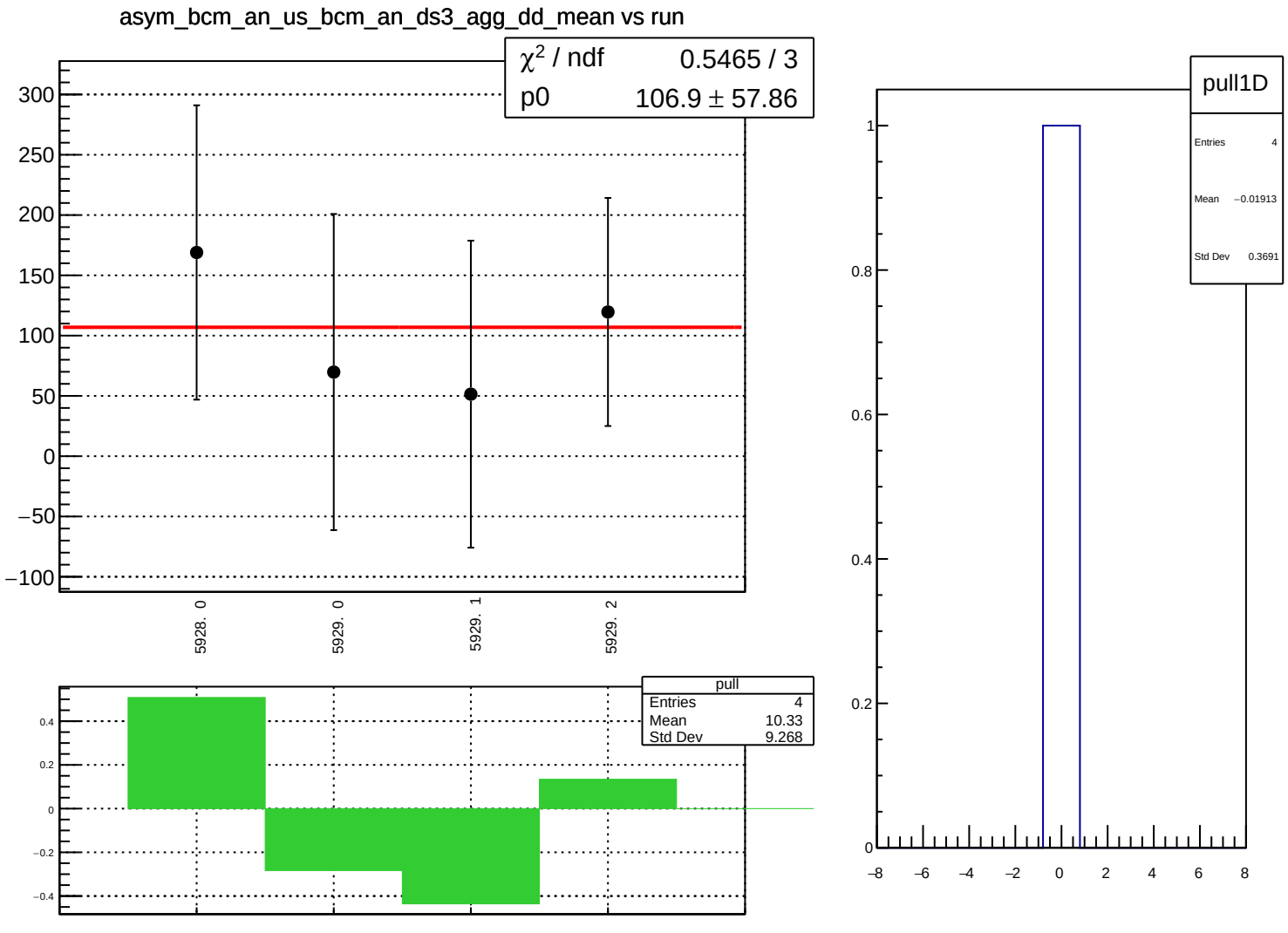

pull1D
Entries 4
Mean 0.02404
Std Dev 0.6125
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

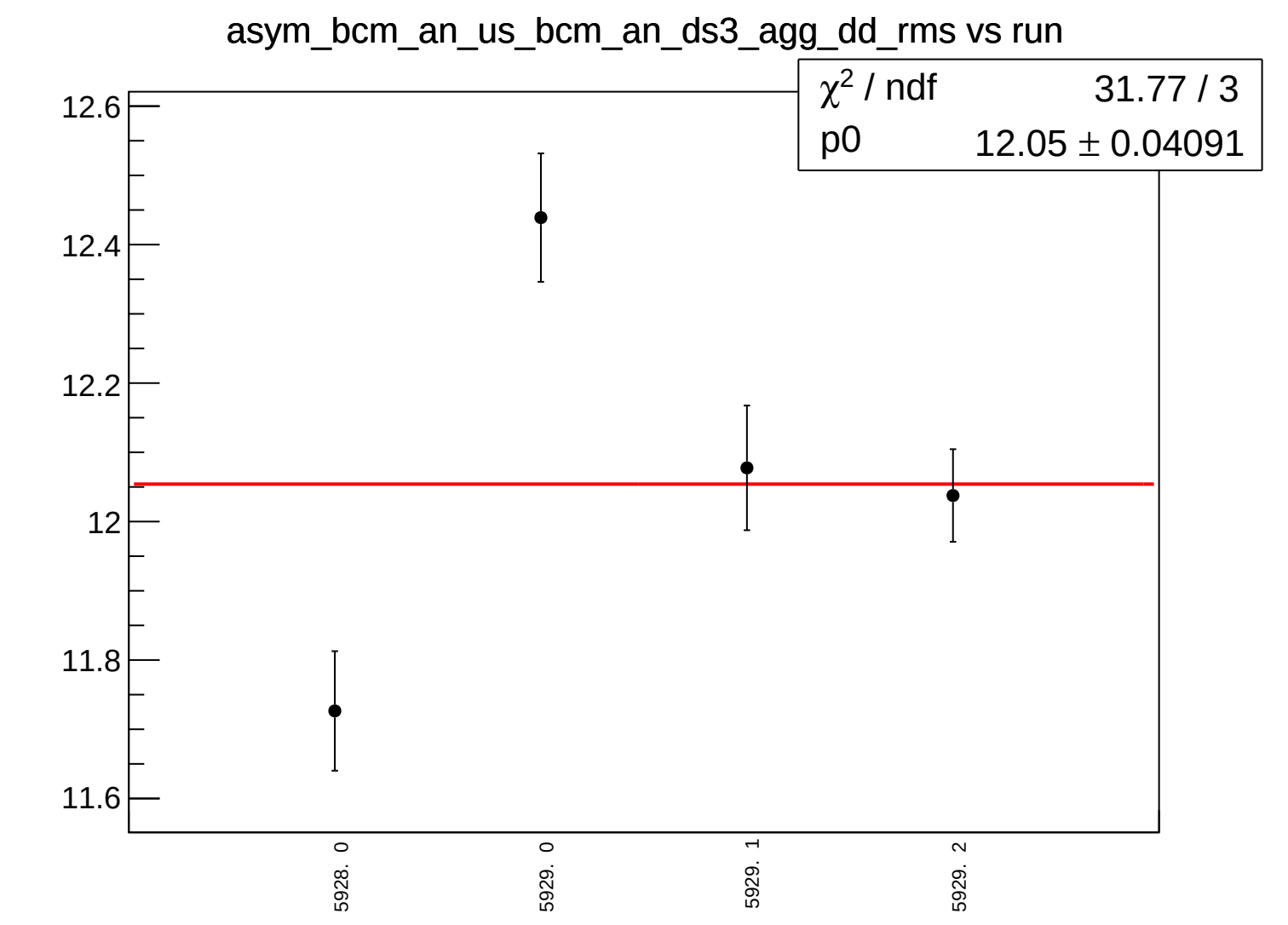

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 26.56 / 3
p0 12.61 ± 0.04278
13
12.8
12.6
12.4
12.2
5928. 0
5929. 0
5929. 1
5929. 2

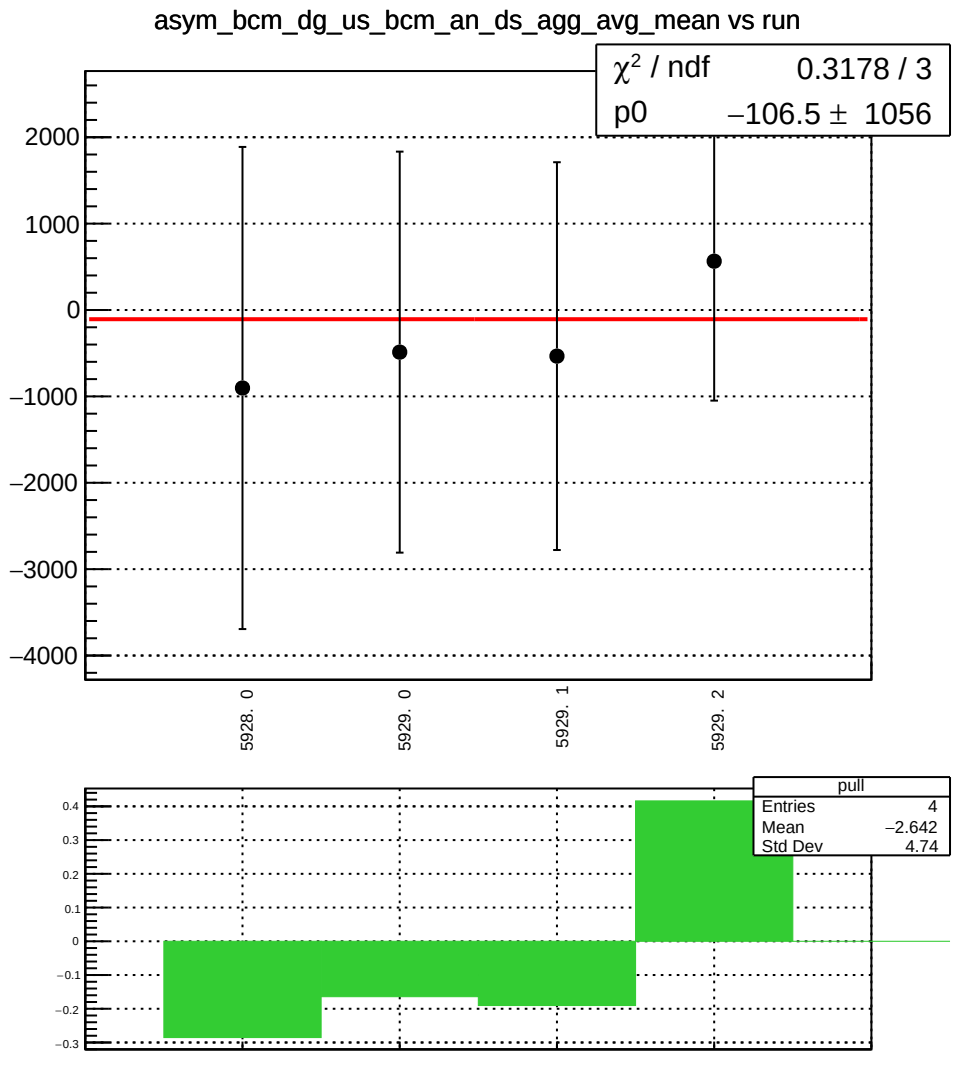

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 0.2534 / 3
p0 38.71 ± 1054
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.788
Std Dev 4.833
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

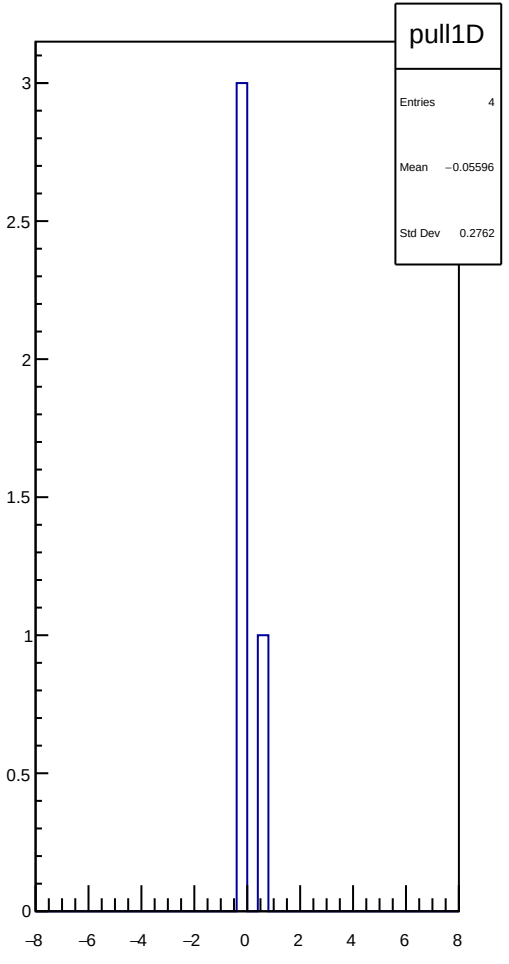

pull1D
Entries 4
Mean −0.05201
Std Dev 0.2463
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

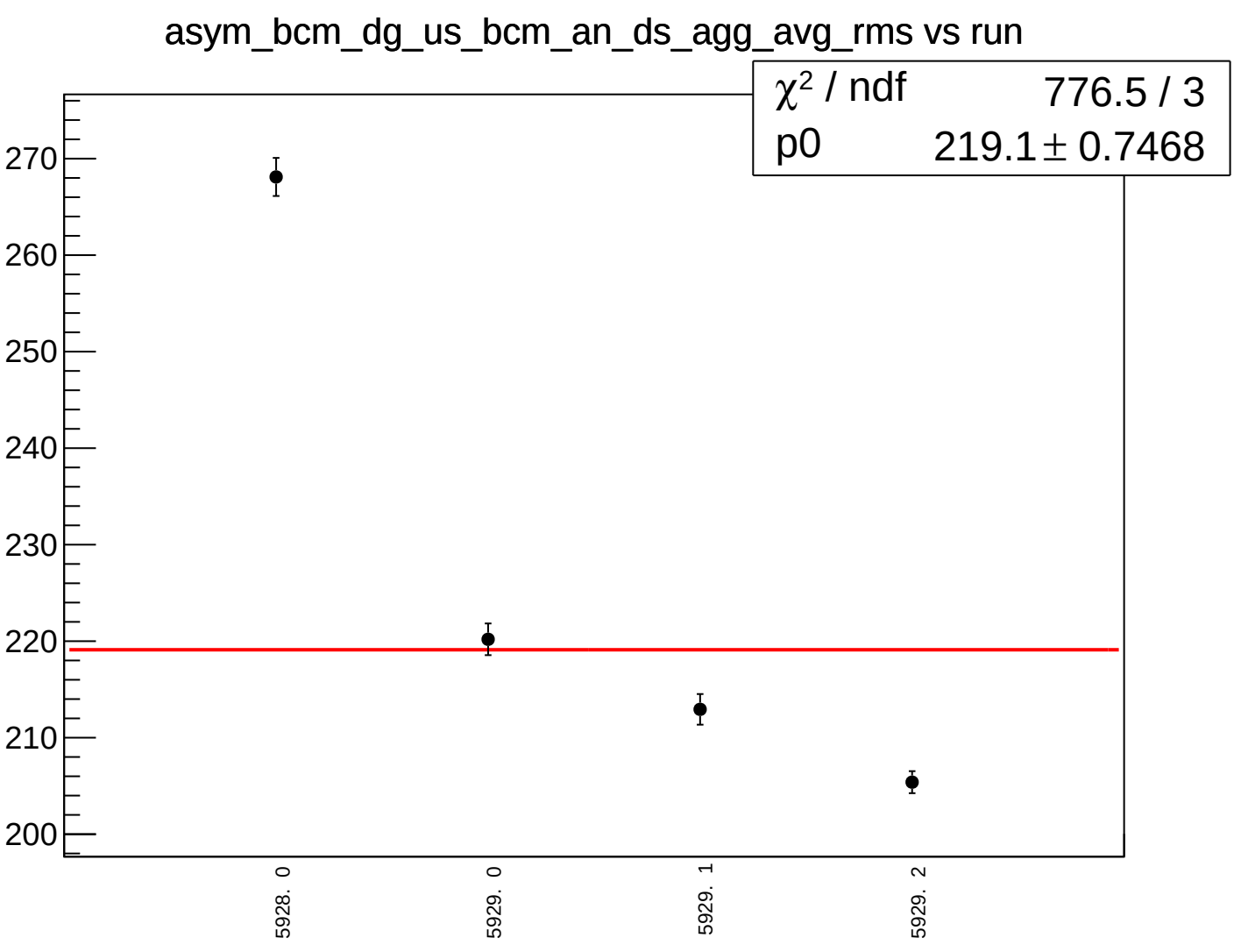

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 821.1 / 3
p0 218.6 ± 0.7452
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

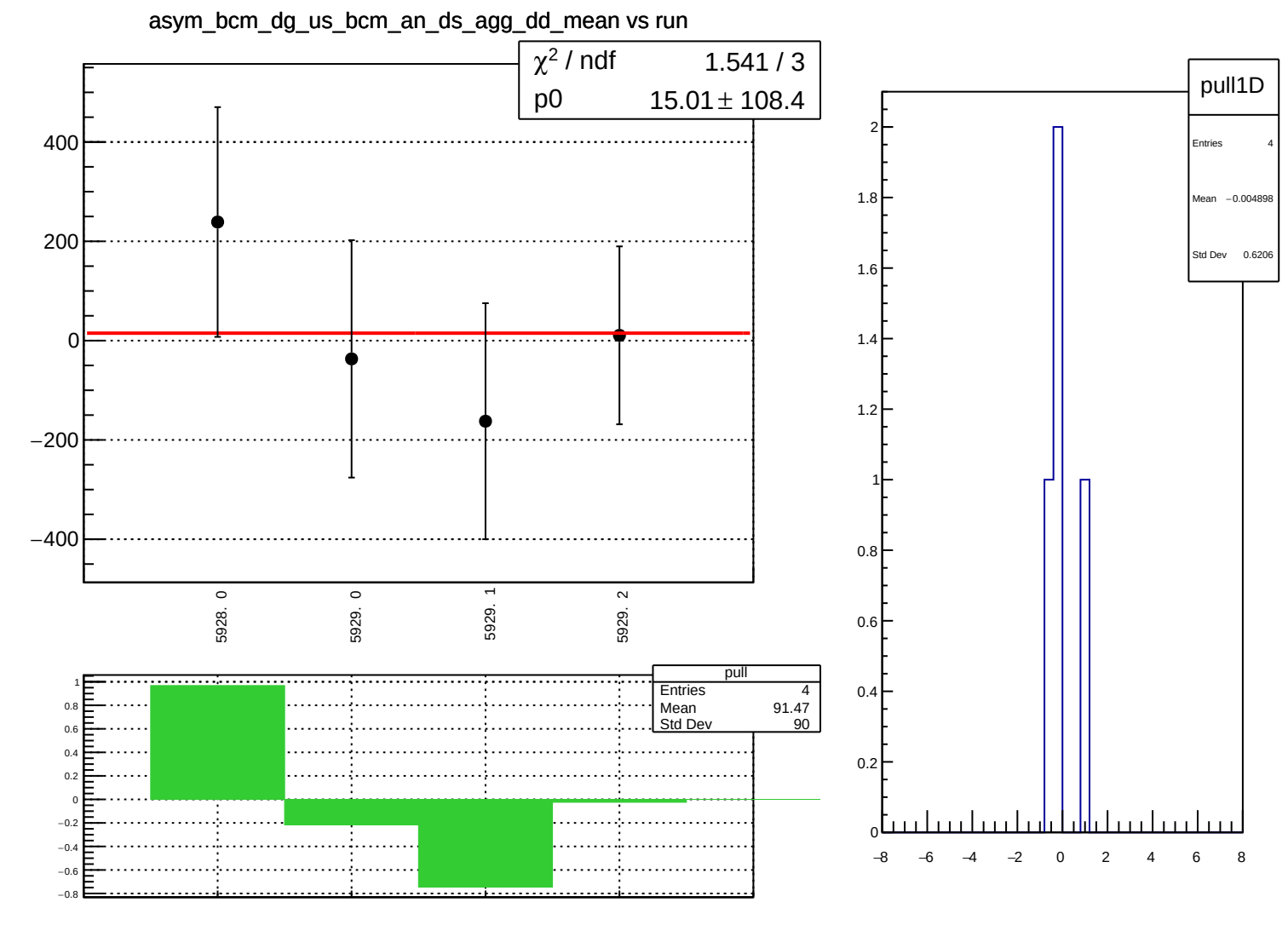

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 0.5465 / 3
p0 106.9 ± 57.86
300
250
200
150
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.33
Std Dev 9.268
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.01913
Std Dev 0.3691
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

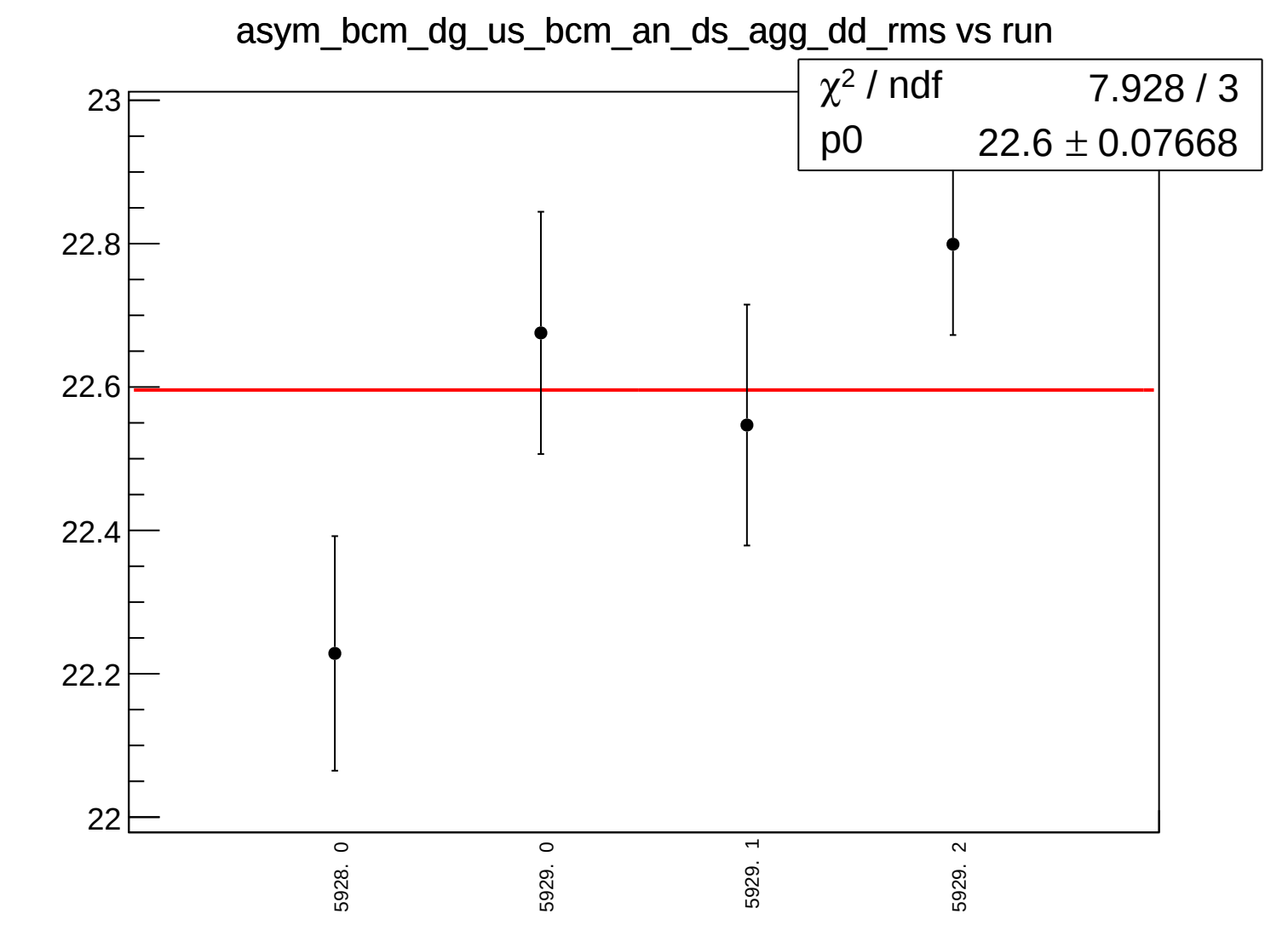

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 31.77 / 3
p0 12.05 ± 0.04091
12.6
12.4
12.2
12
11.8
11.6
5928. 0
5929. 0
5929. 1
5929. 2

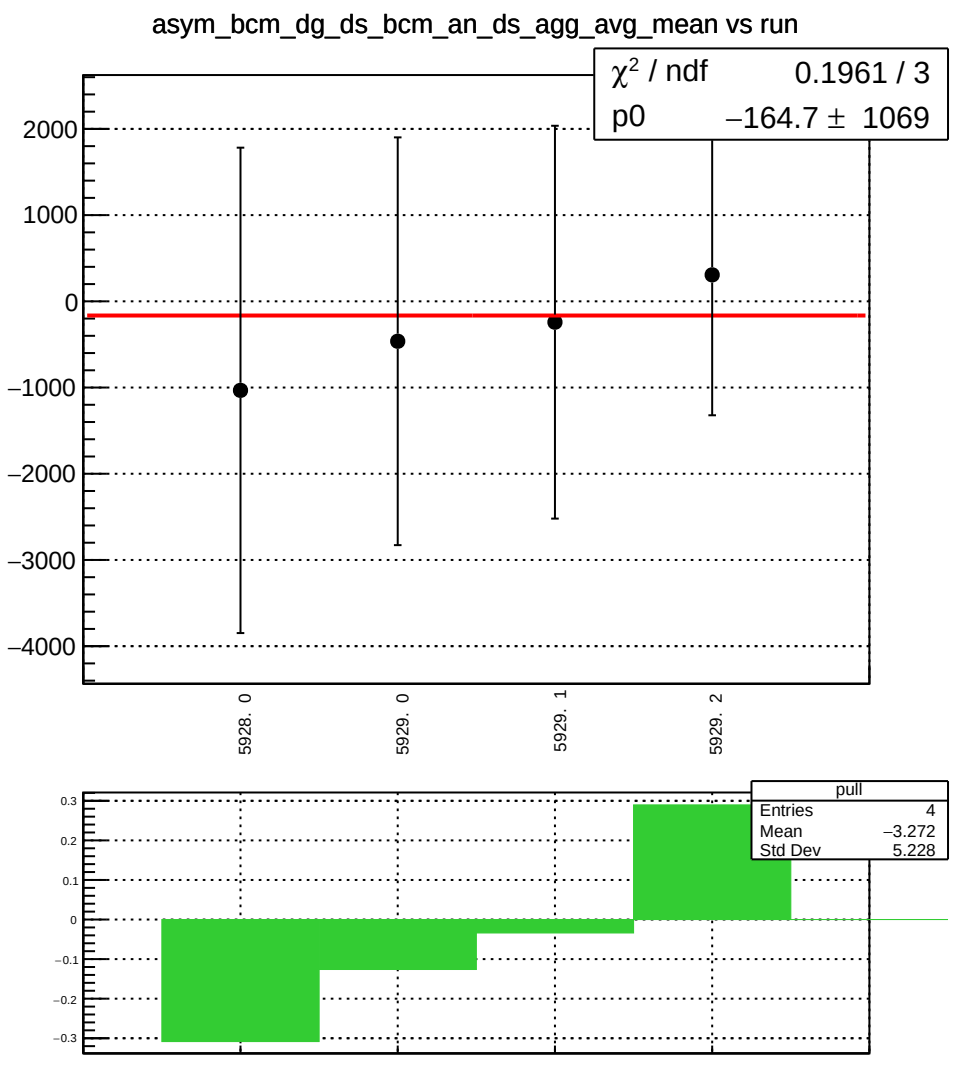

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.3178 / 3
p0 −106.5 ± 1056
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.642
Std Dev 4.74
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

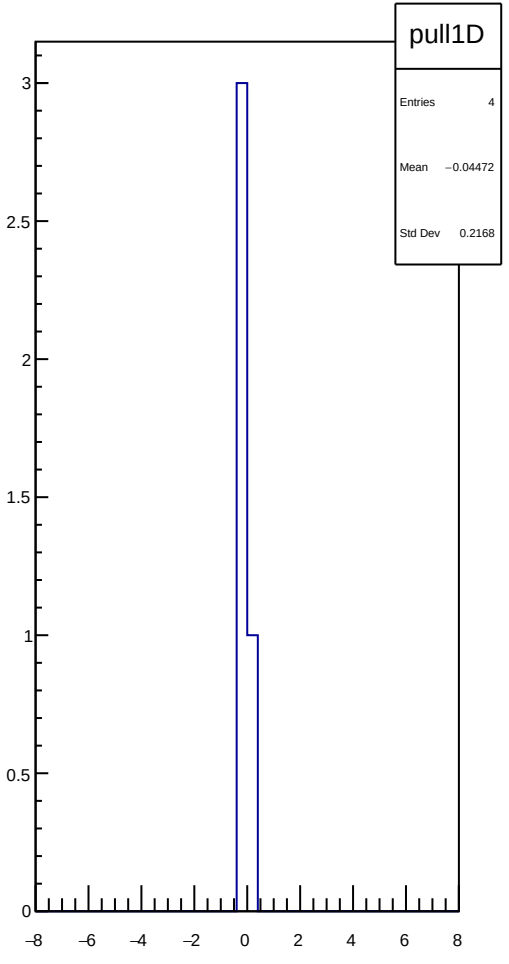

pull1D
Entries 4
Mean −0.05596
Std Dev 0.2762
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

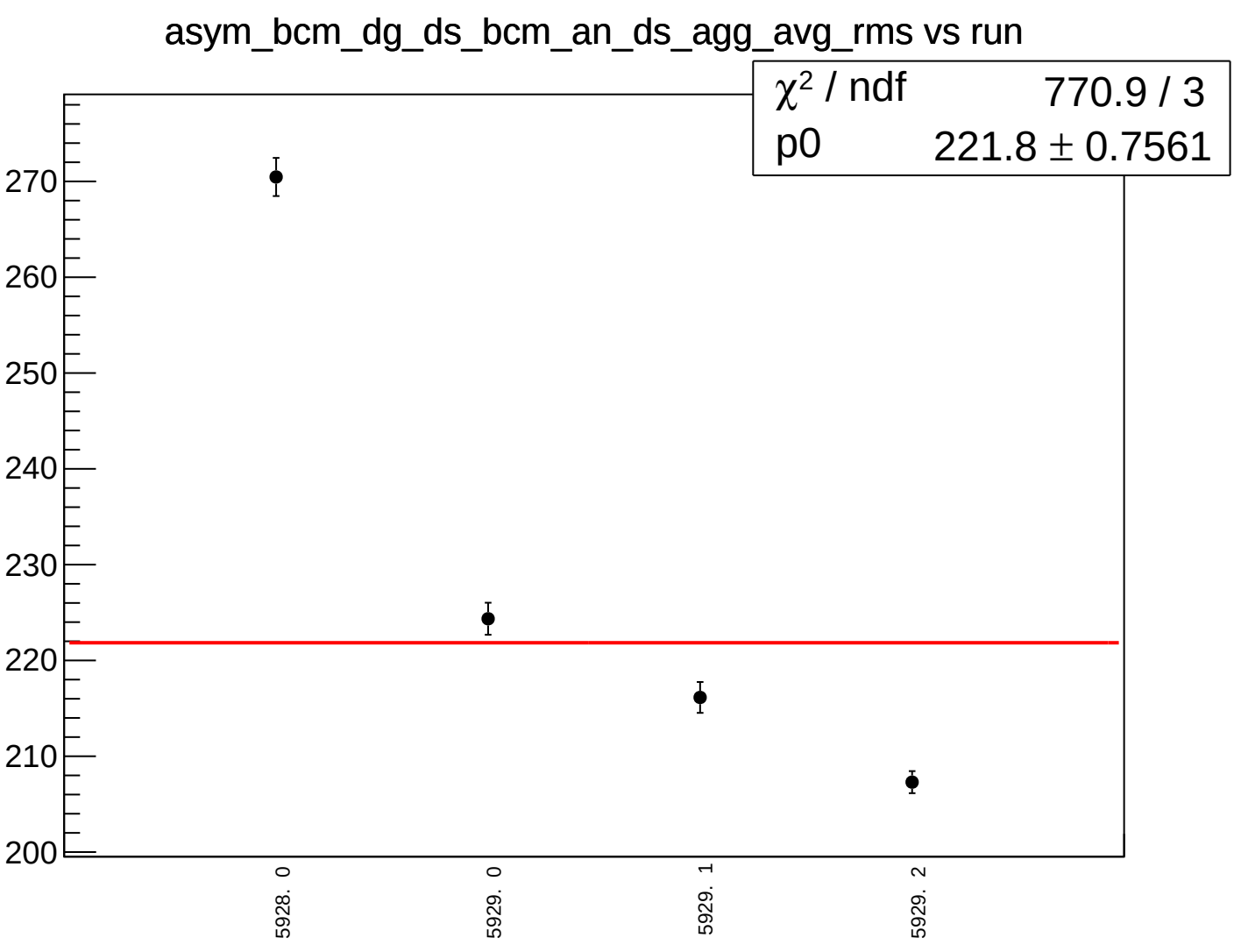

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 776.5 / 3
p0 219.1 ± 0.7468
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

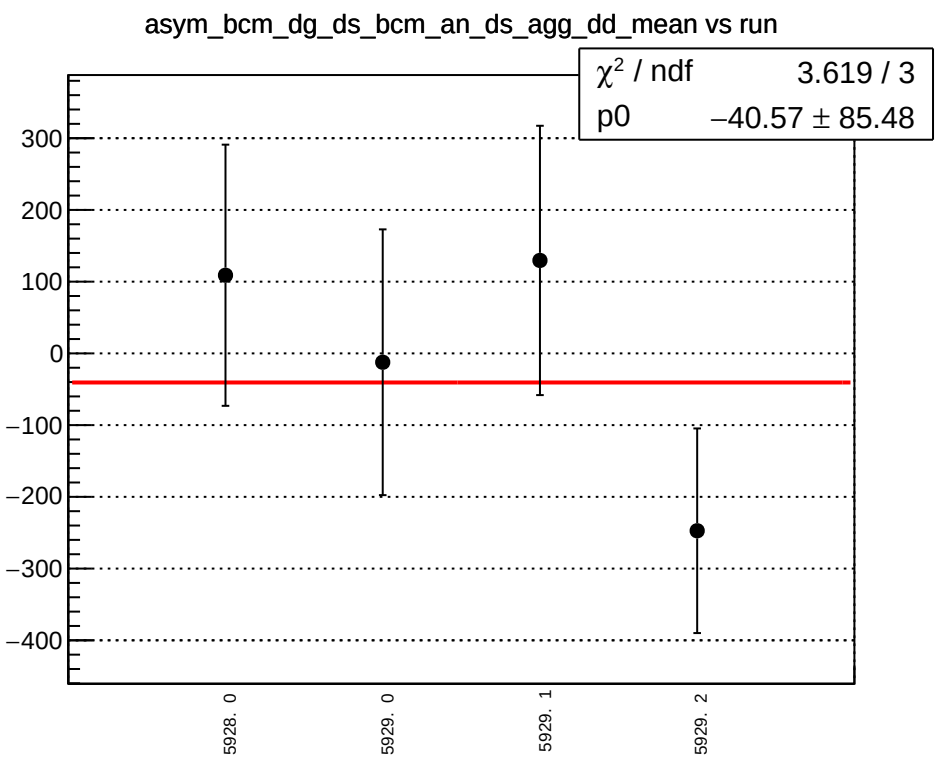

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 1.541 / 3
p0 15.01 ± 108.4
400
200
0
−200
−400
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 91.47
Std Dev 90
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.004898
Std Dev 0.6206
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

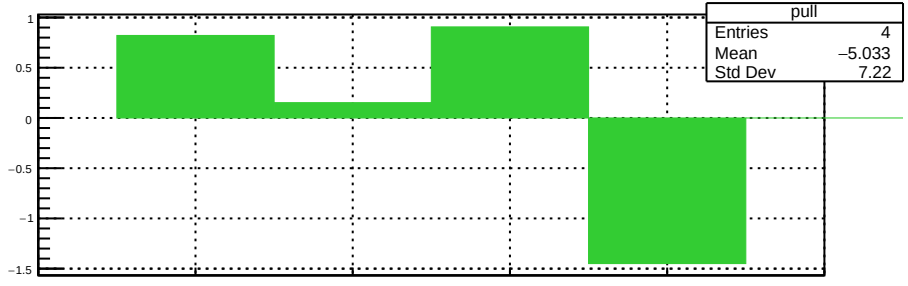

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7.928 / 3
p0 22.6 ± 0.07668
23
22.8
22.6
22.4
22.2
22
5928. 0
5929. 0
5929. 1
5929. 2

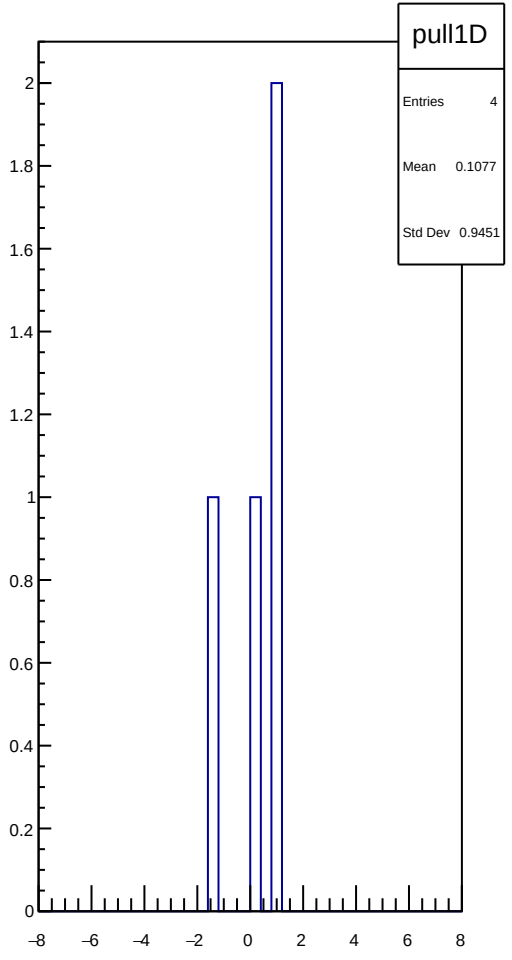

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.1961 / 3
p0 −164.7 ± 1069
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.272
Std Dev 5.228
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

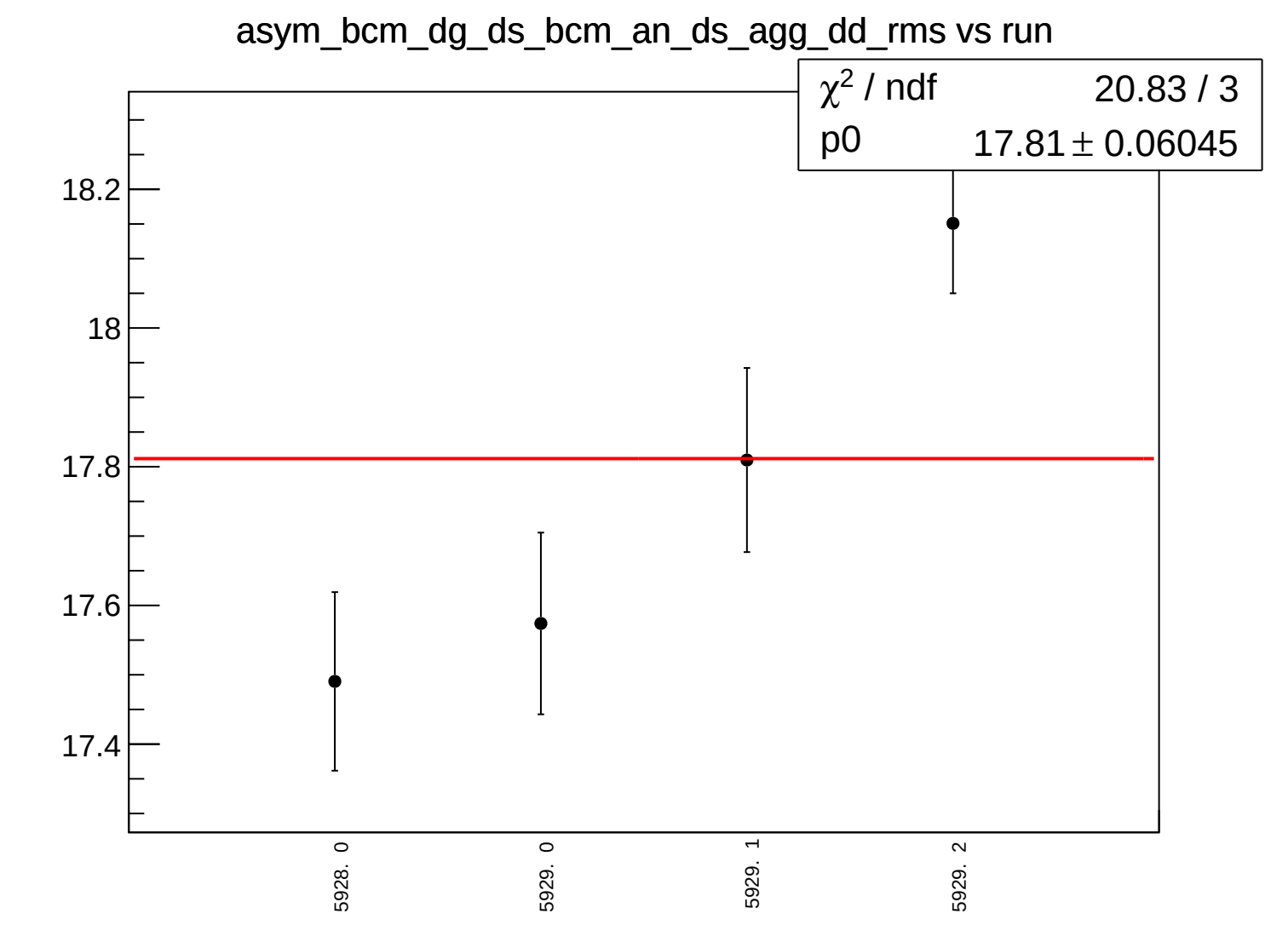

pull1D
Entries 4
Mean −0.04472
Std Dev 0.2168
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

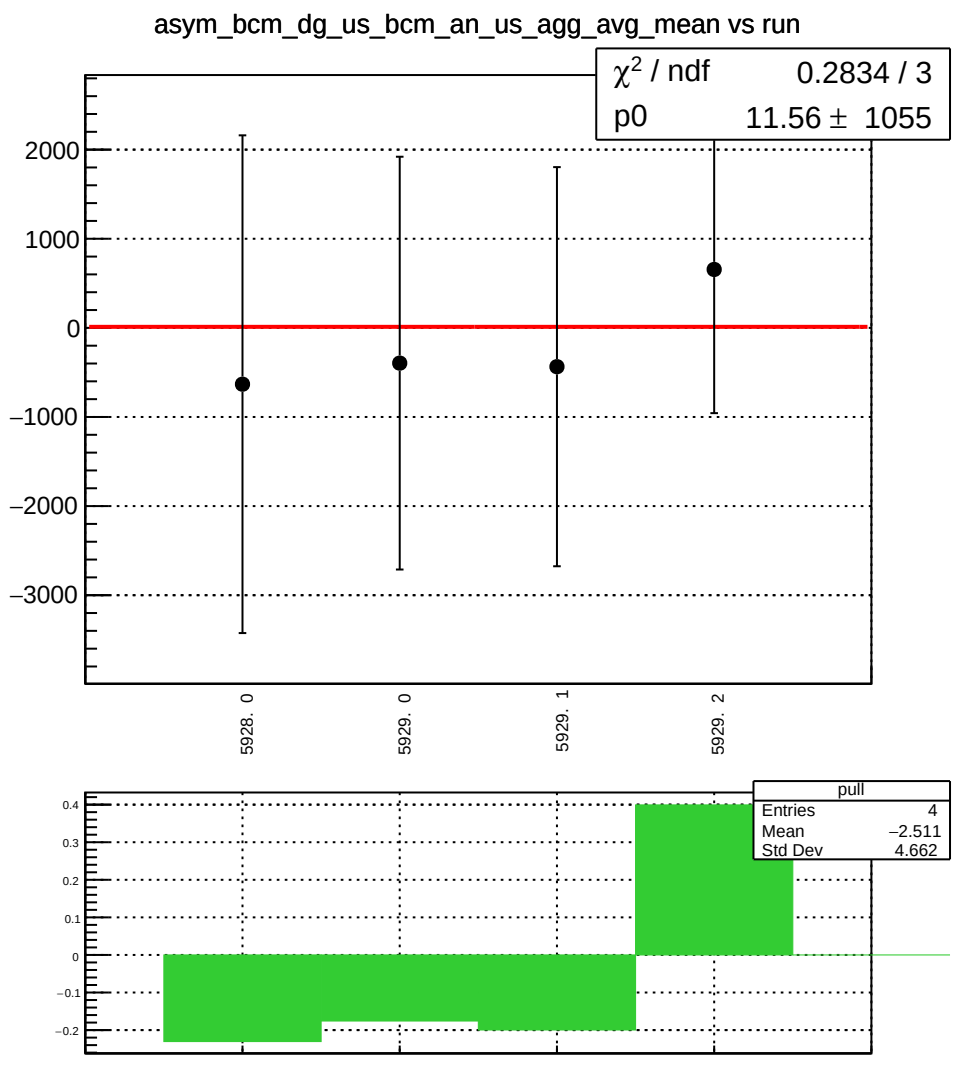

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 770.9 / 3
p0 221.8 ± 0.7561
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

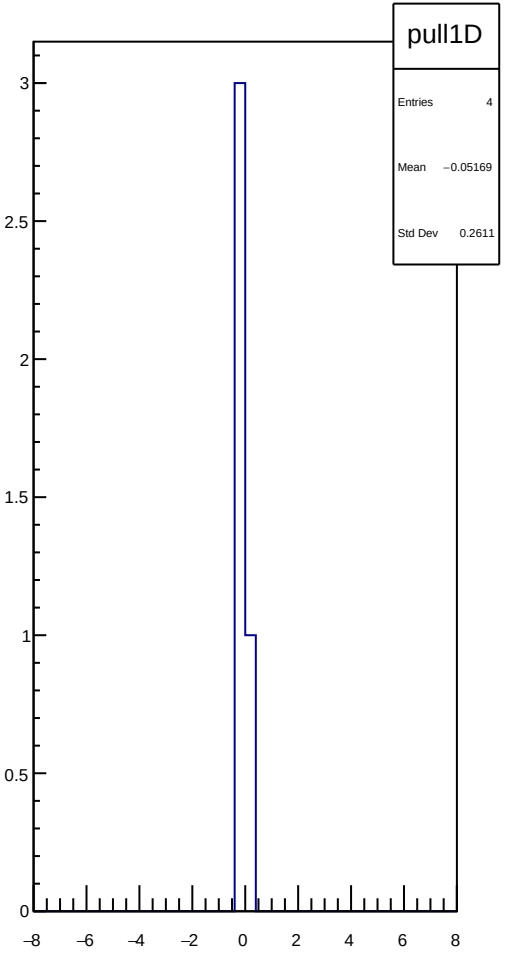

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 3.619 / 3
p0 −40.57 ± 85.48
300
200
100
0
−100
−200
−300
−400
5928. 0
5929. 0
5929. 1
5929. 2

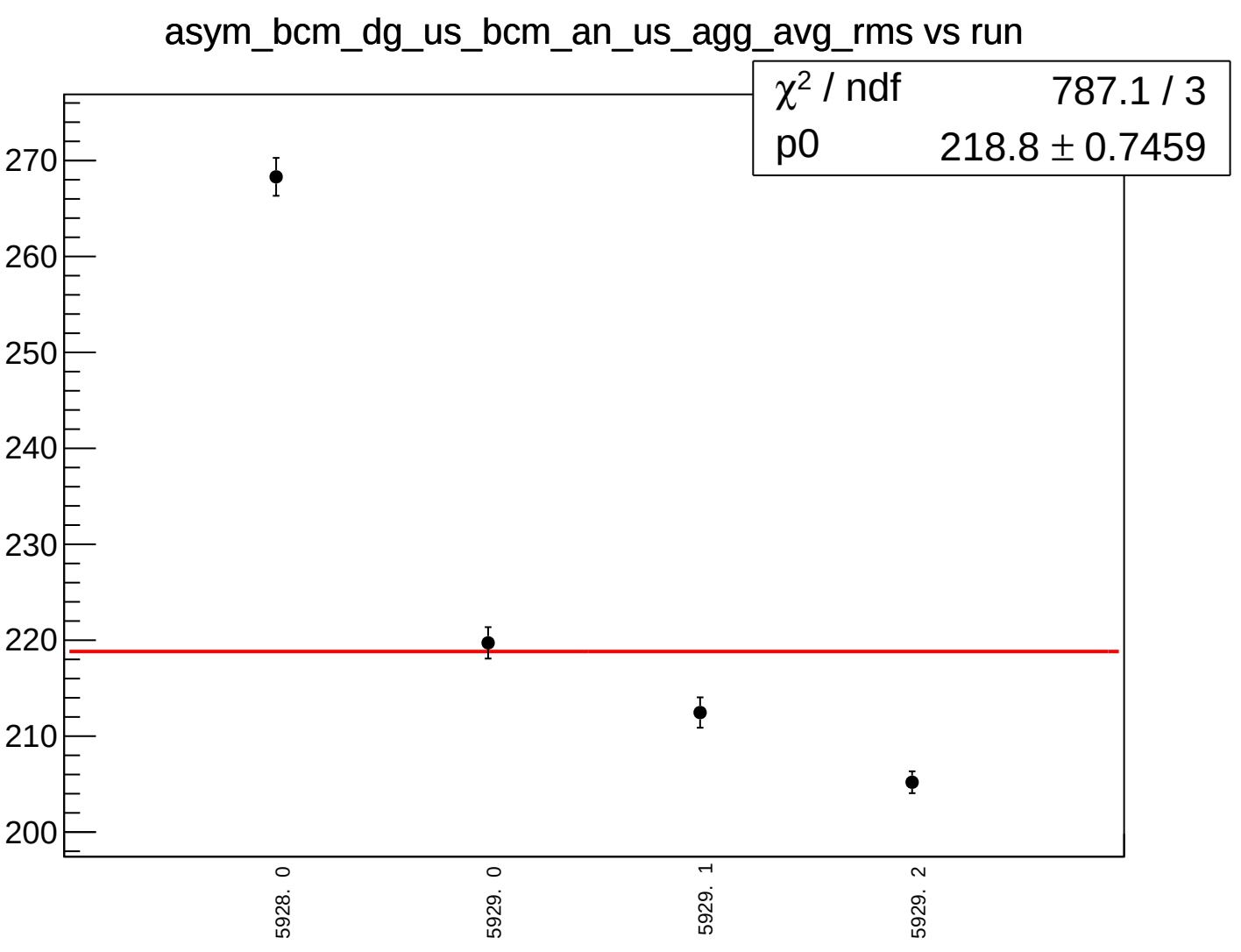

pull
Entries 4
Mean −5.033
Std Dev 7.22
1
0.5
0
−0.5
−1
−1.5

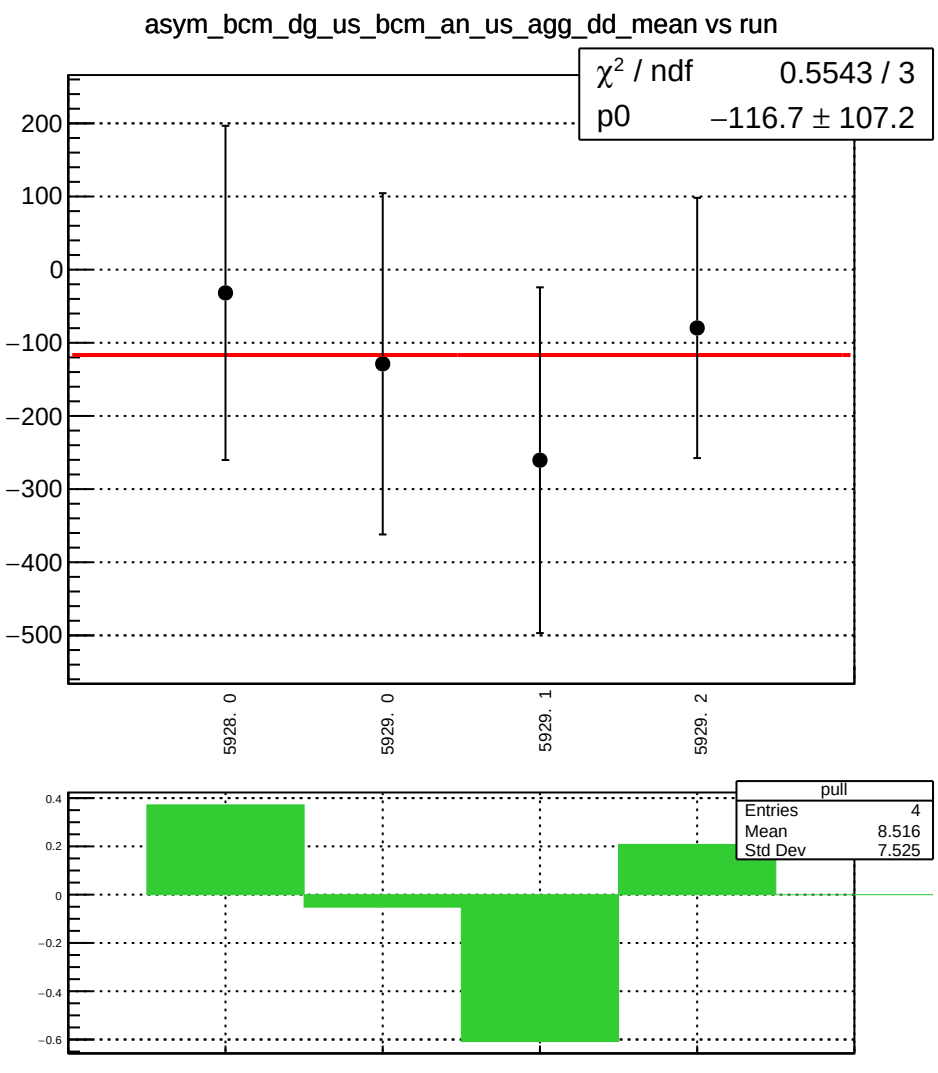

pull1D
Entries 4
Mean 0.1077
Std Dev 0.9451
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

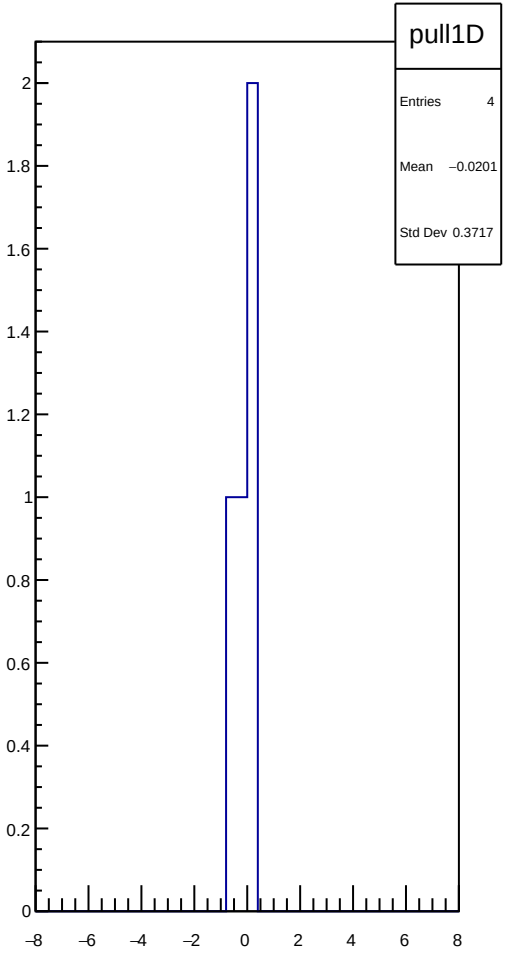

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 20.83 / 3
p0 17.81 ± 0.06045
18.2
18
17.8
17.6
17.4
5928. 0
5929. 0
5929. 1
5929. 2

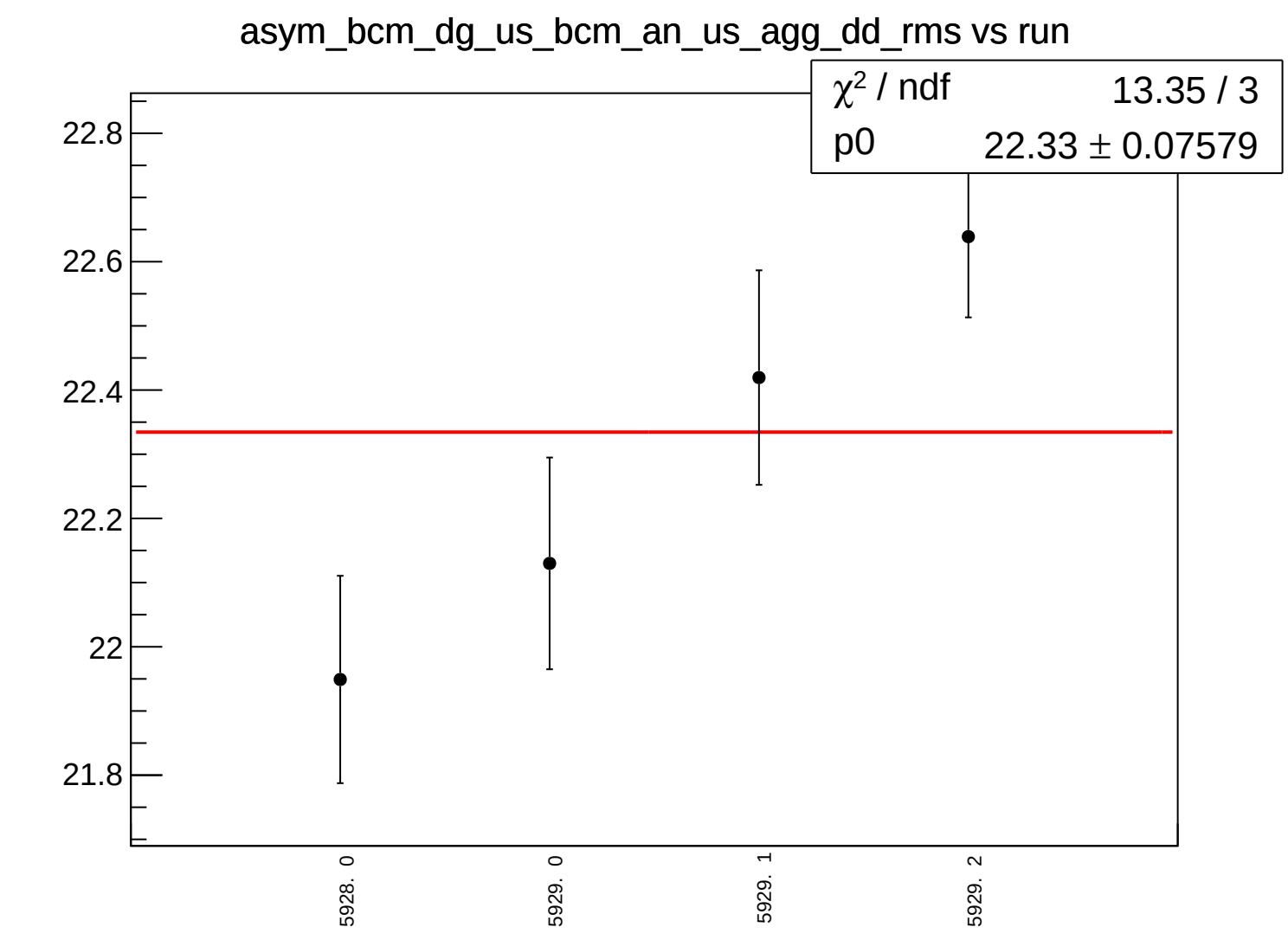

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0.2834 / 3
p0 11.56 ± 1055
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.511
Std Dev 4.662
0.4
0.3
0.2
0.1
0
−0.1
−0.2

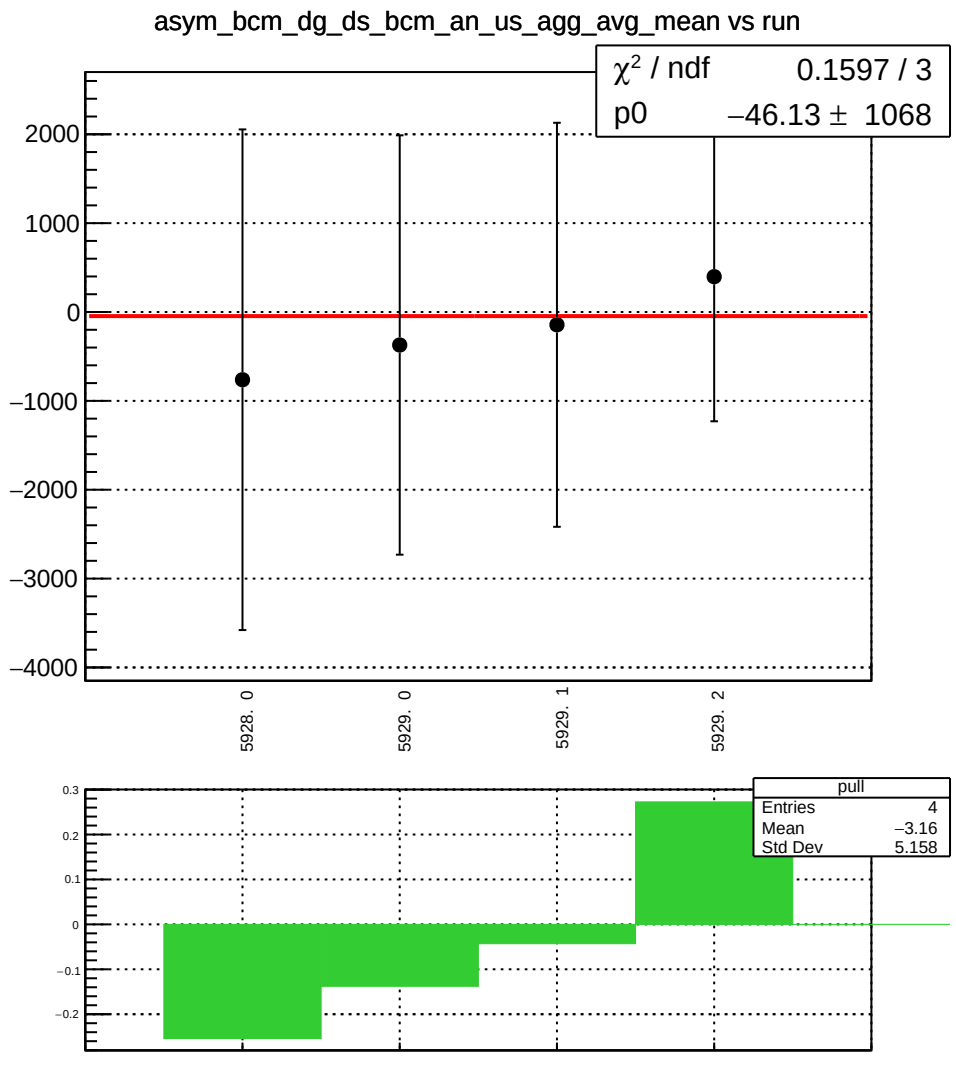

pull1D
Entries 4
Mean −0.05169
Std Dev 0.2611
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

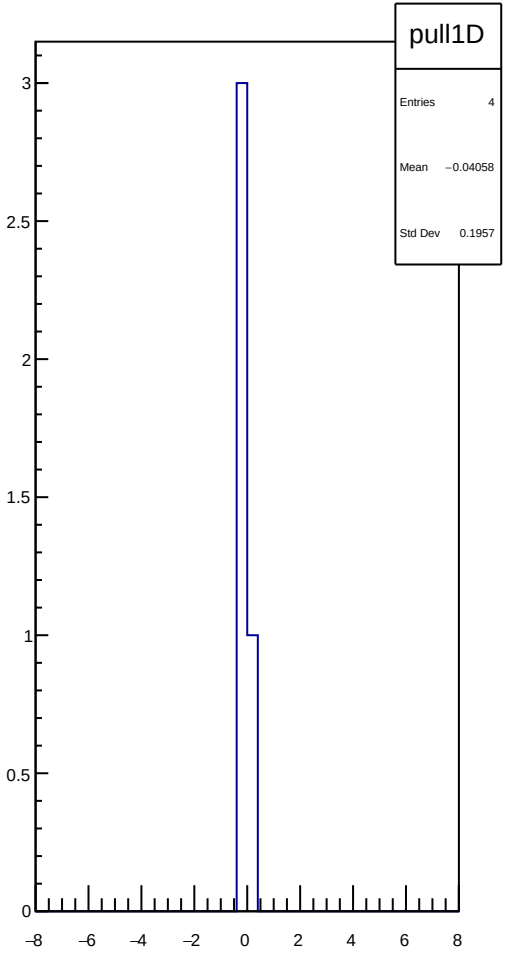

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 787.1 / 3
p0 218.8 ± 0.7459
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

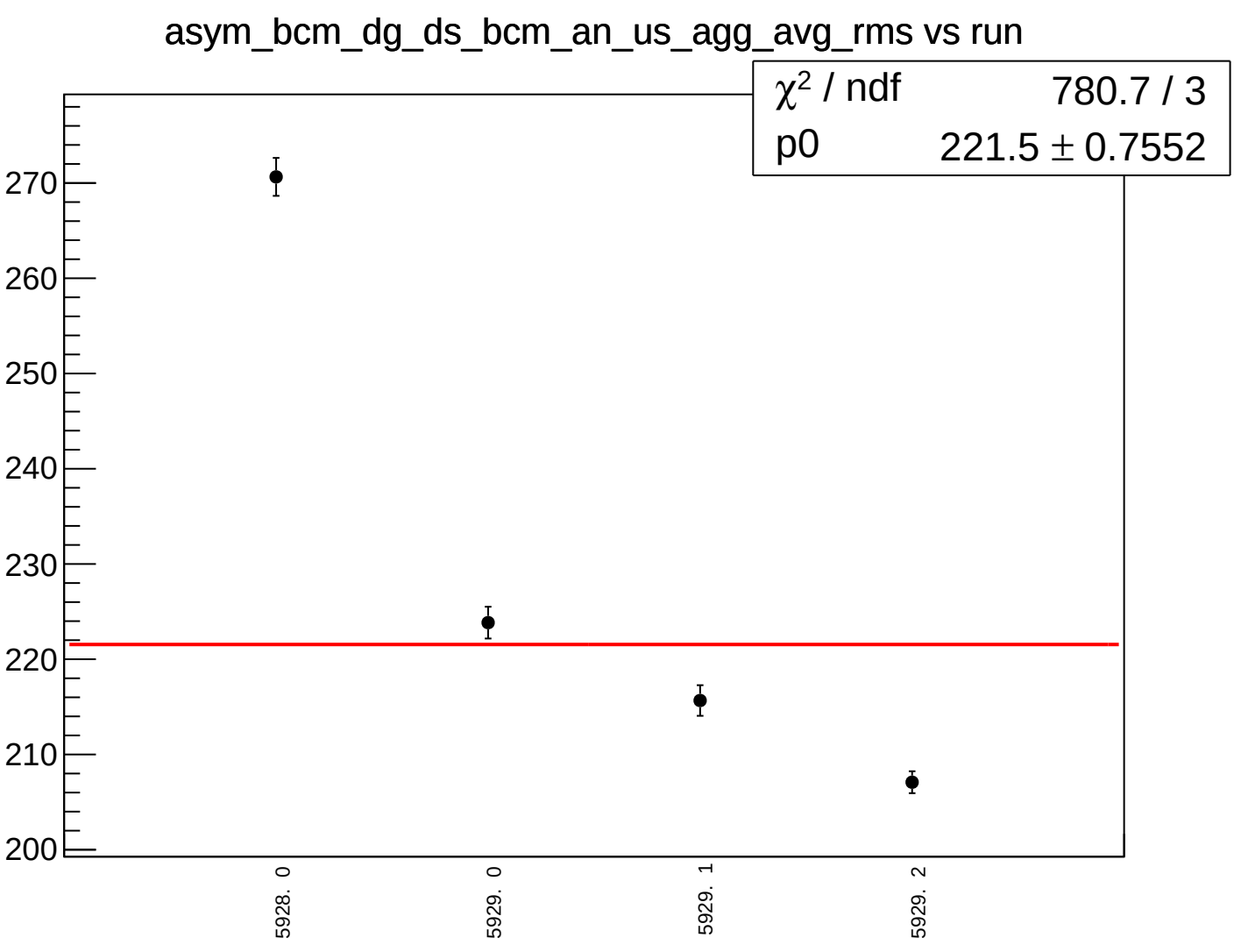

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 0.5543 / 3
p0 −116.7 ± 107.2
200
100
0
−100
−200
−300
−400
−500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.516
Std Dev 7.525
0.4
0.2
0
−0.2
−0.4
−0.6

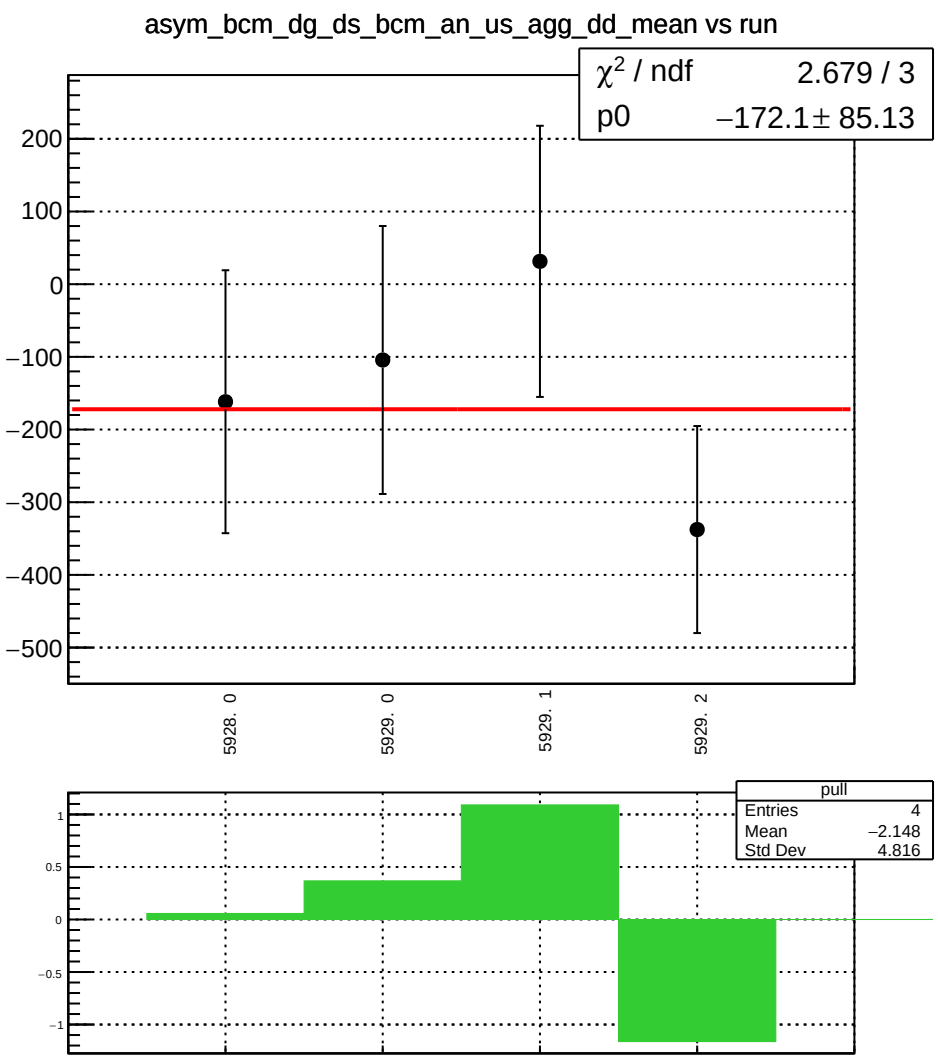

pull1D
Entries 4
Mean −0.0201
Std Dev 0.3717
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

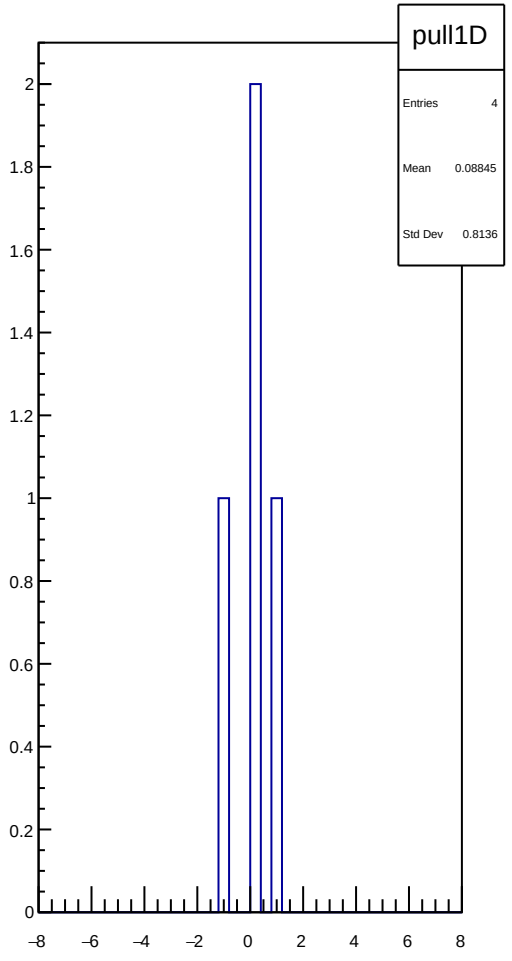

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 13.35 / 3
p0 22.33 ± 0.07579
22.8
22.6
22.4
22.2
22
21.8
5928. 0
5929. 0
5929. 1
5929. 2

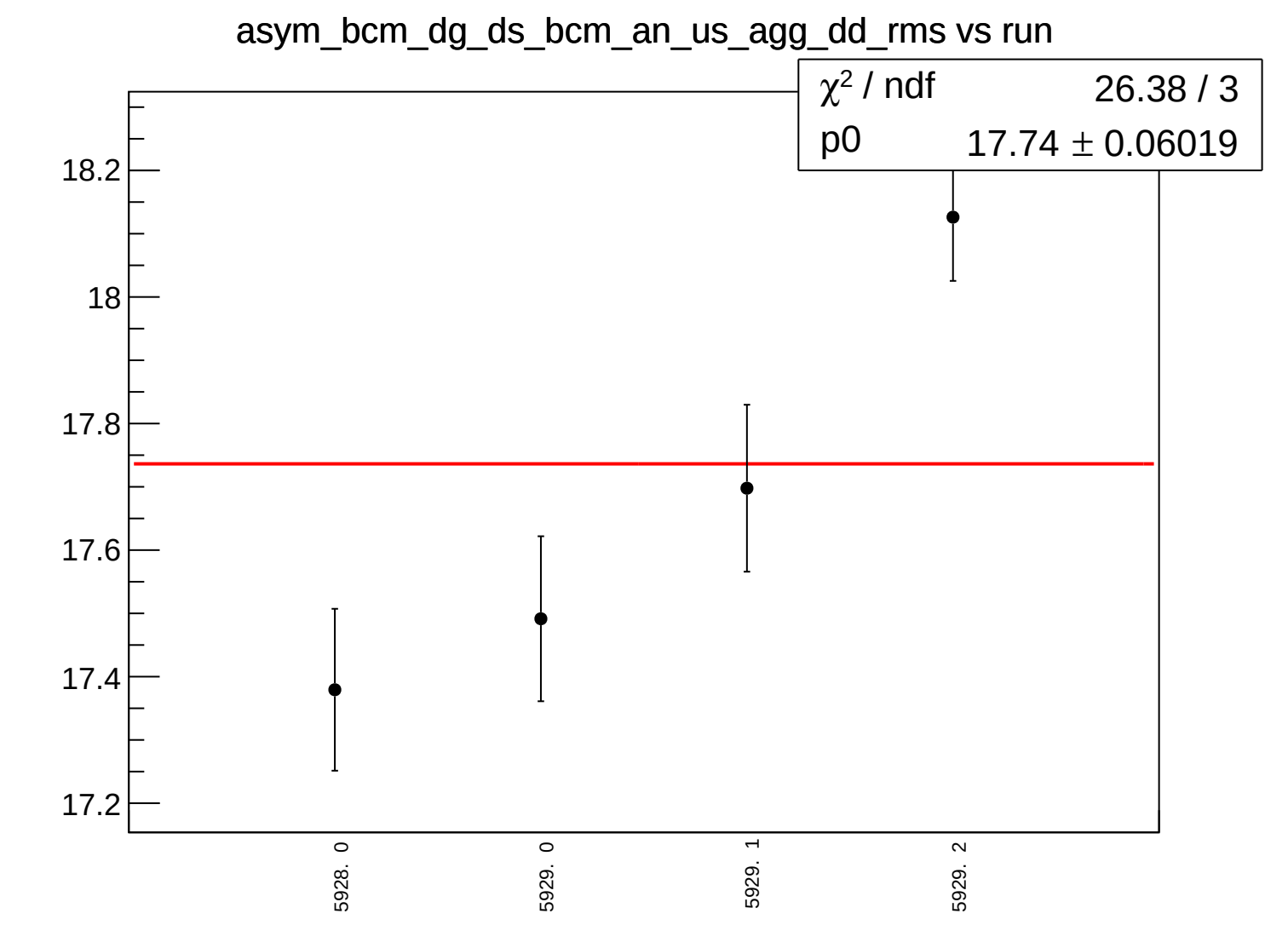

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0.1597 / 3
p0 −46.13 ± 1068
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.16
Std Dev 5.158
0.3
0.2
0.1
0
−0.1
−0.2

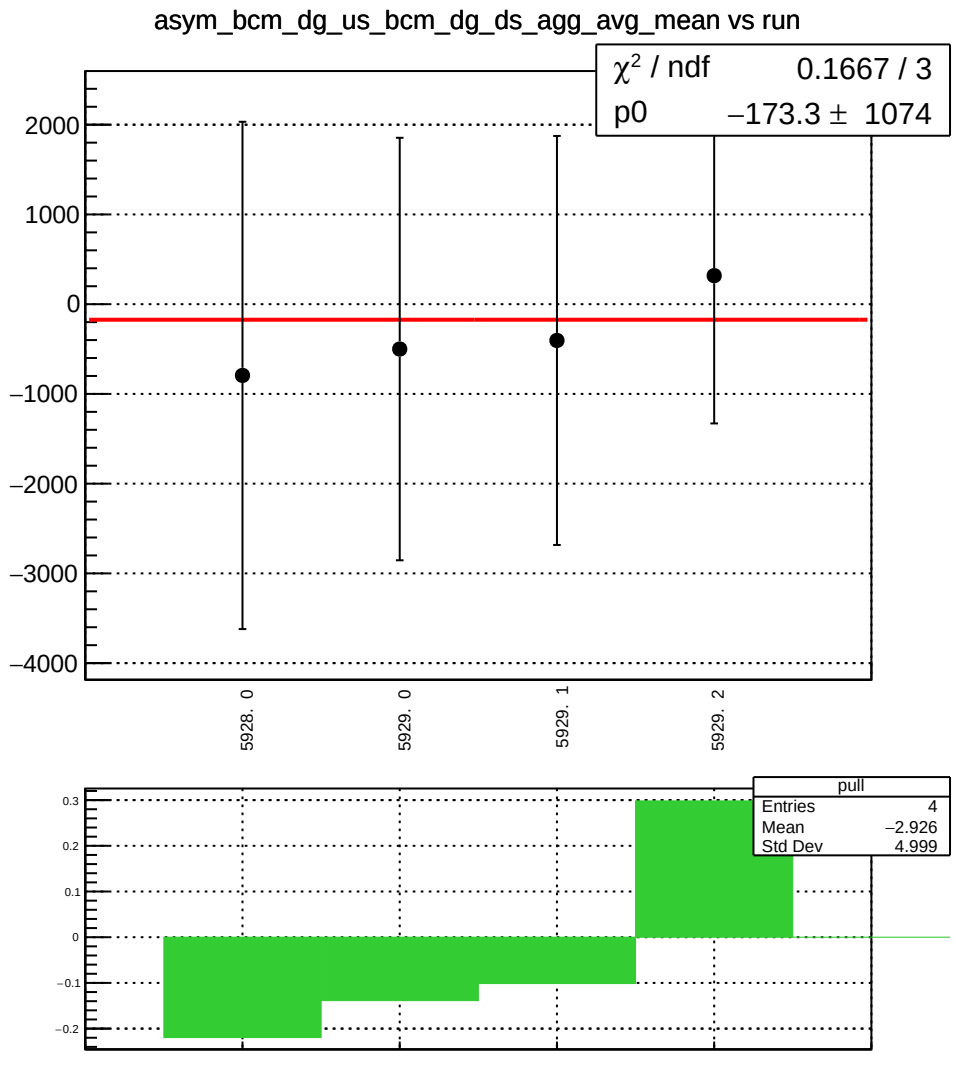

pull1D
Entries 4
Mean −0.04058
Std Dev 0.1957
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

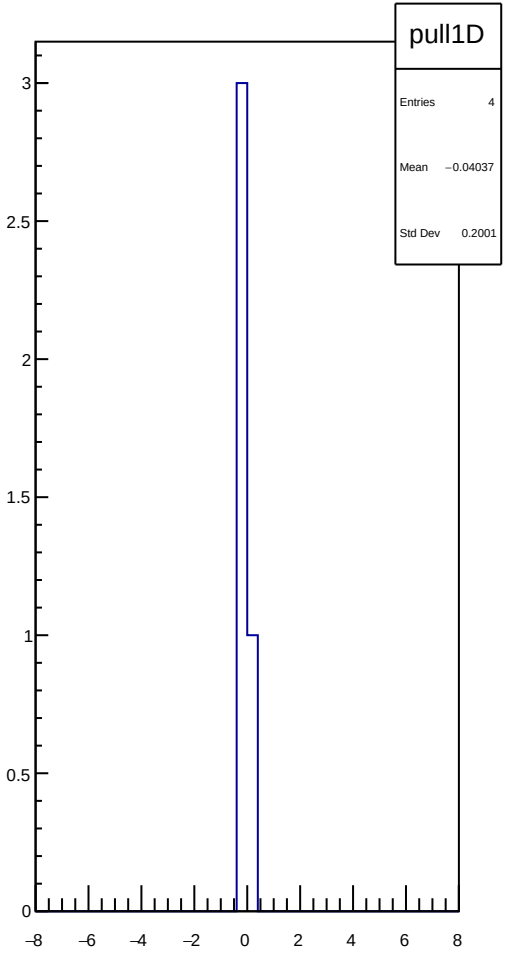

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 780.7 / 3
p0 221.5 ± 0.7552
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

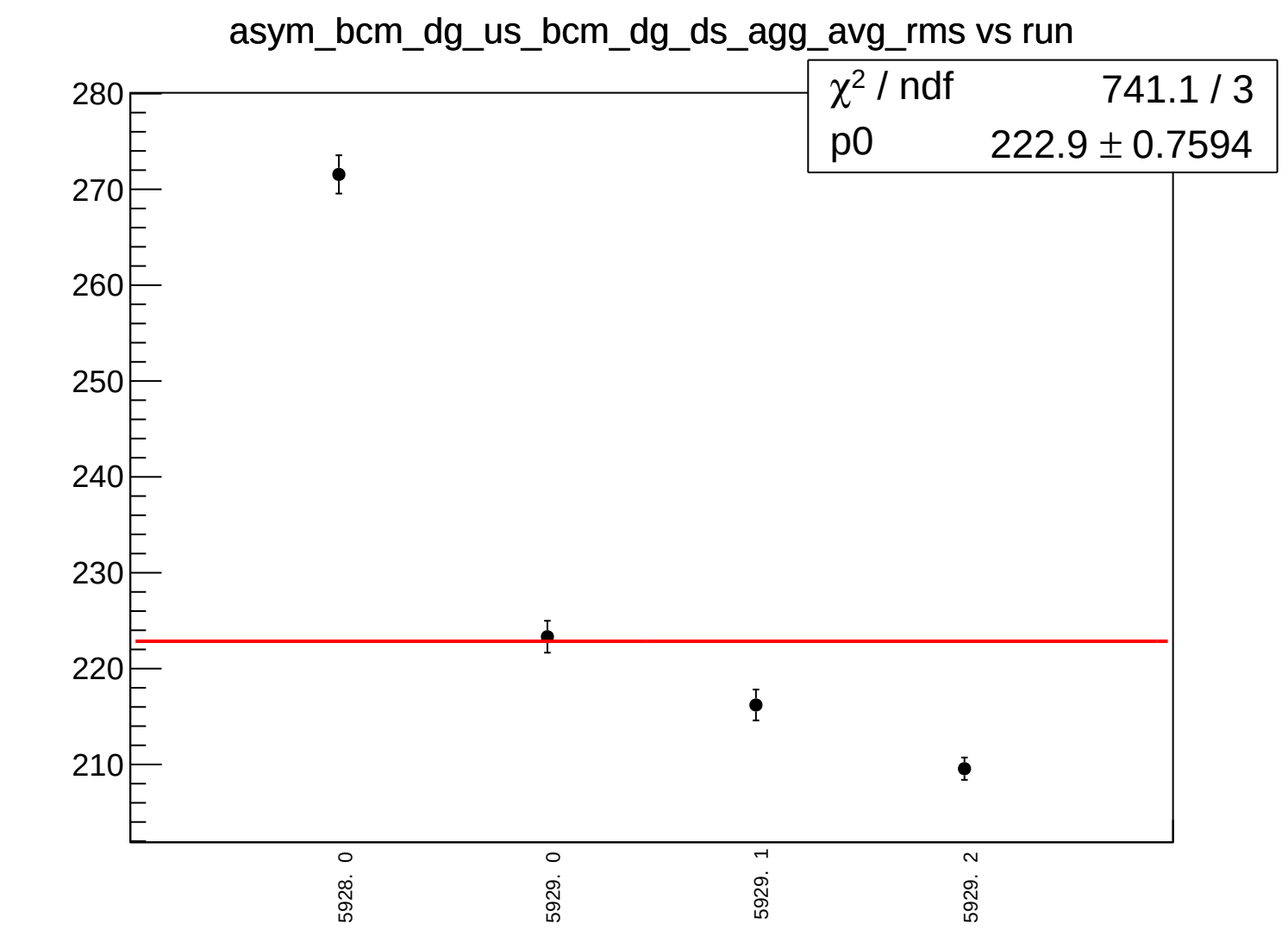

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 2.679 / 3
p0 −172.1± 85.13
200
100
0
−100
−200
−300
−400
−500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.148
Std Dev 4.816
1
0.5
0
−0.5
−1

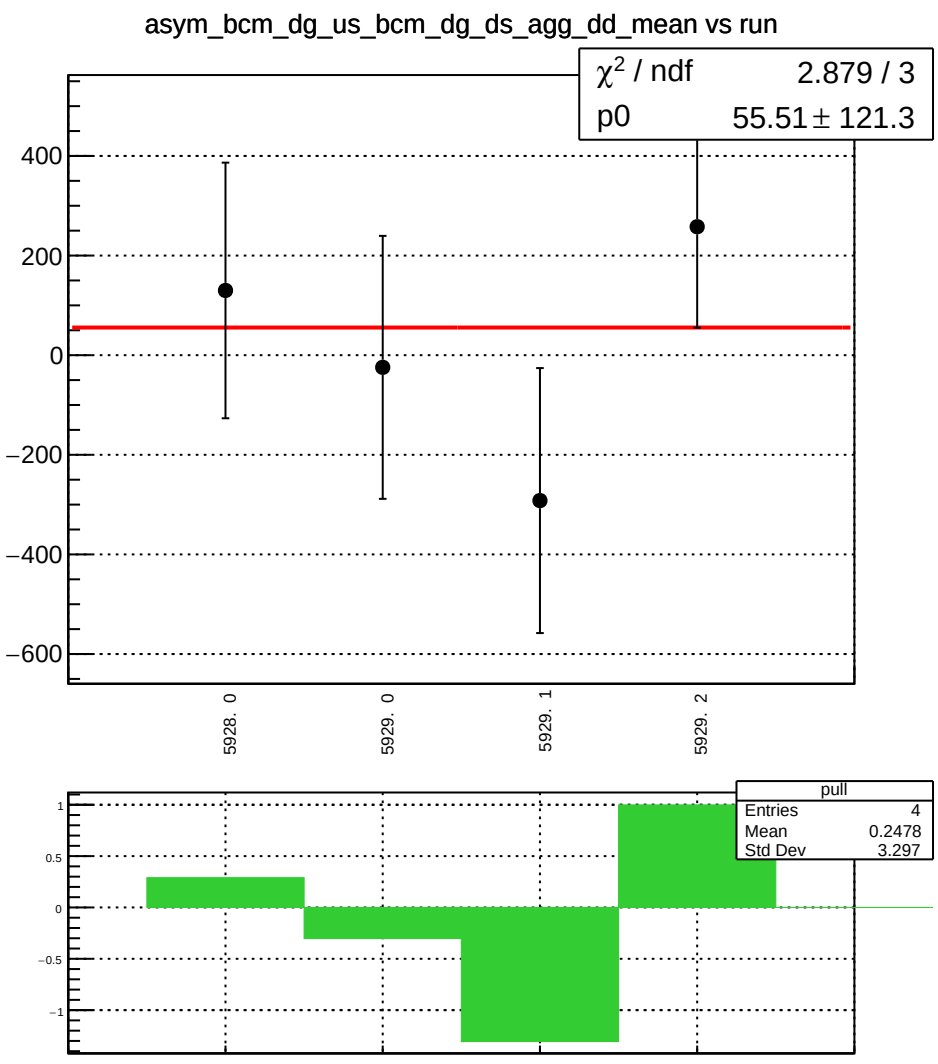

pull1D
Entries 4
Mean 0.08845
Std Dev 0.8136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

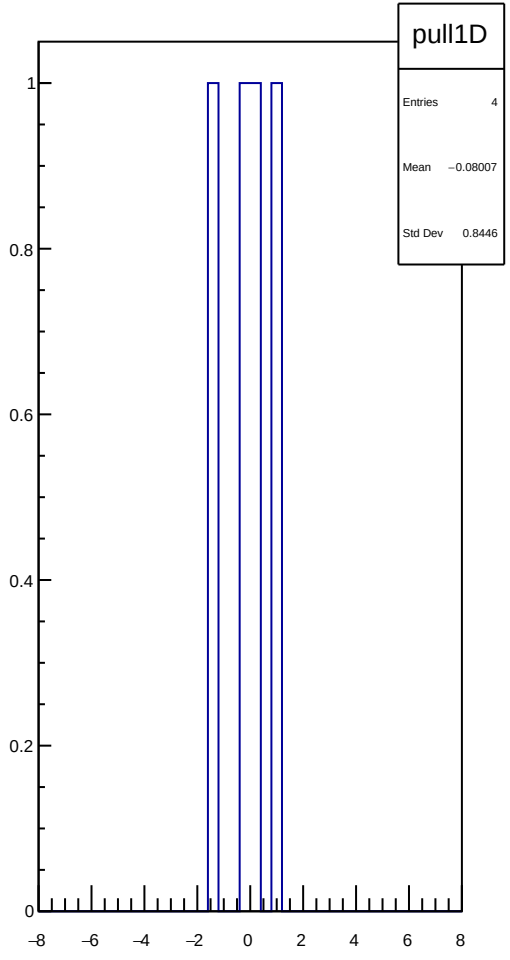

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 26.38 / 3
p0 17.74 ± 0.06019
18.2
18
17.8
17.6
17.4
17.2
5928. 0
5929. 0
5929. 1
5929. 2

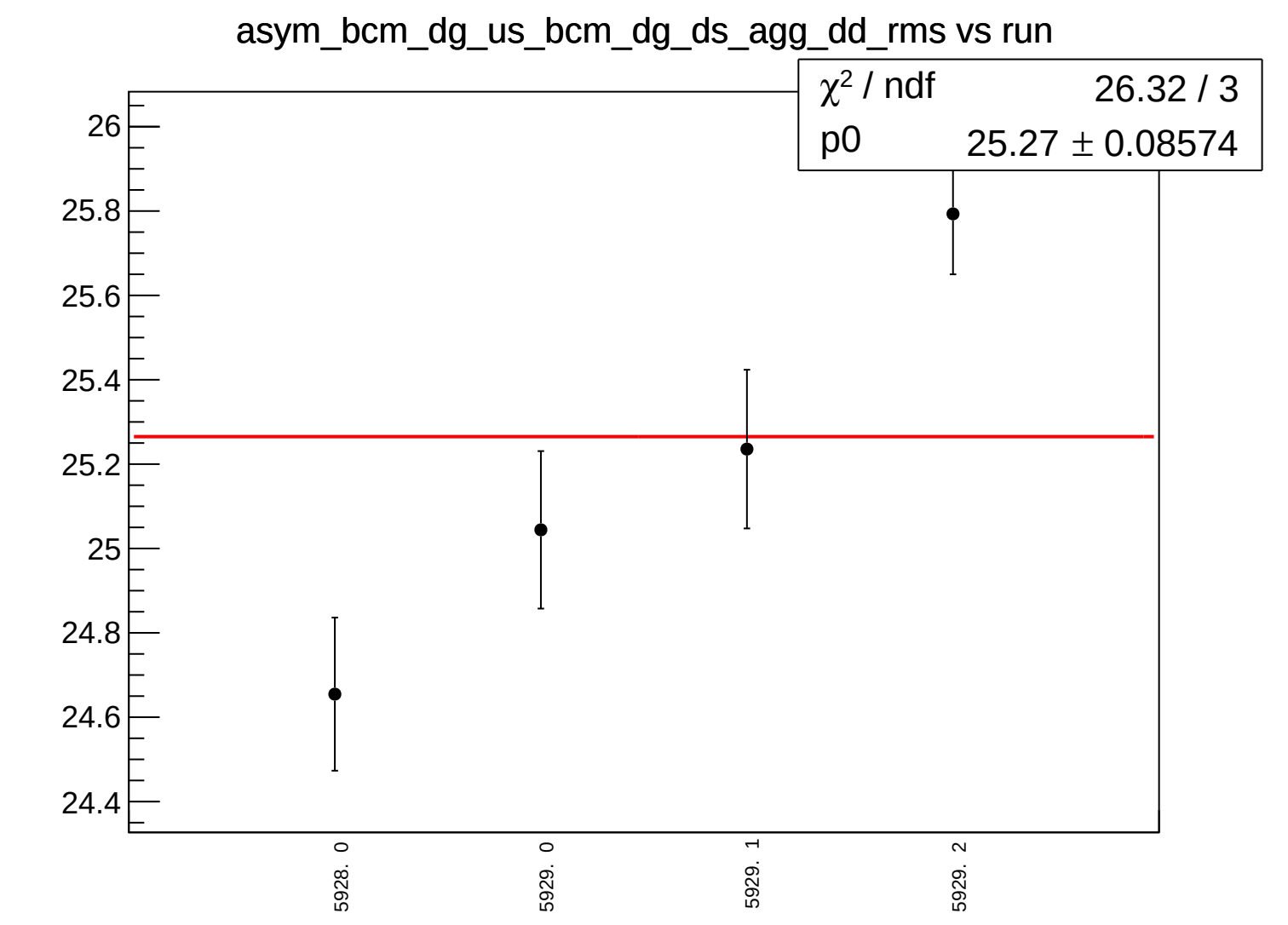

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 0.1667 / 3
p0 −173.3 ± 1074
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.926
Std Dev 4.999
0.3
0.2
0.1
0
−0.1
−0.2

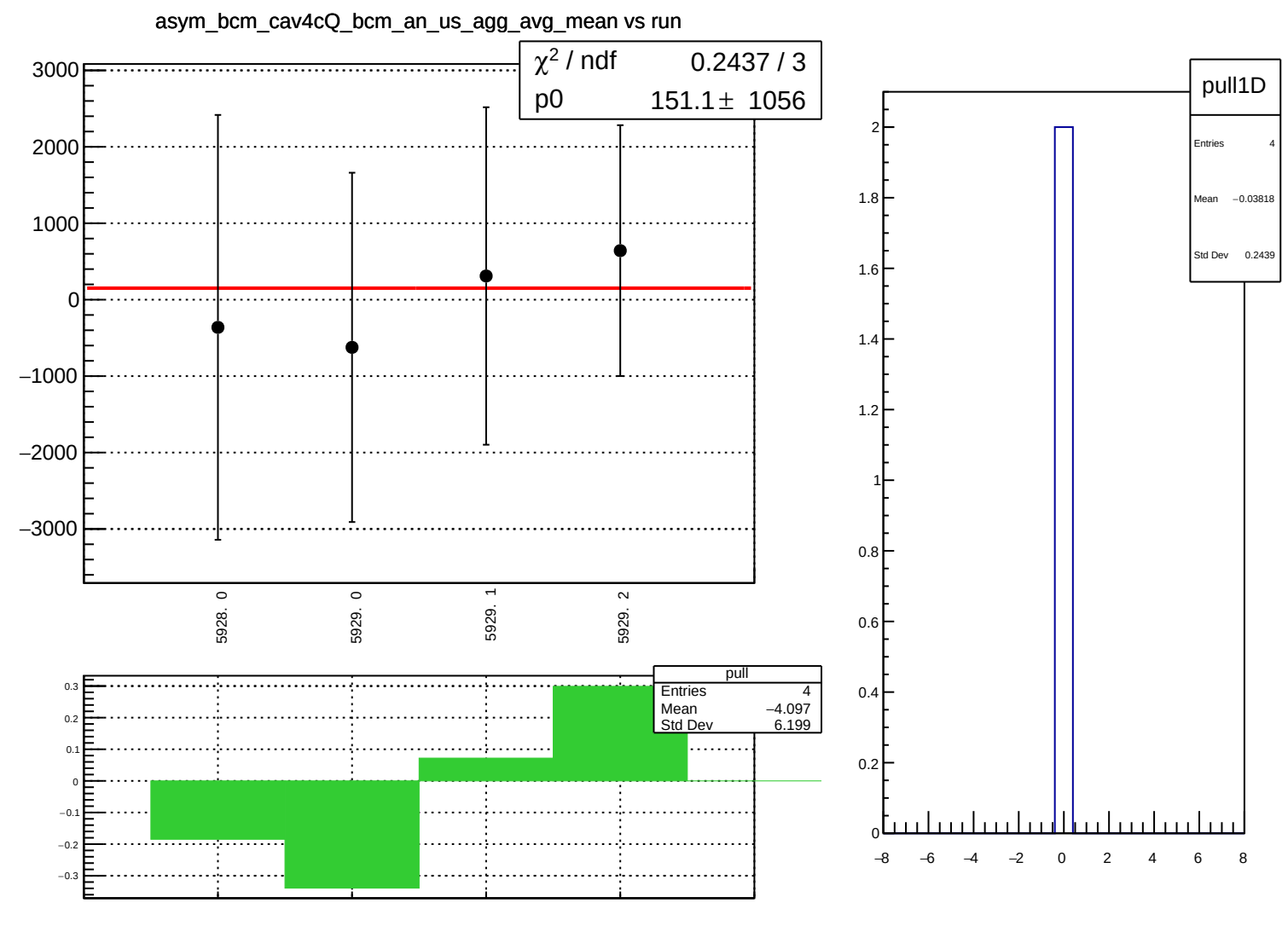

pull1D
Entries 4
Mean −0.04037
Std Dev 0.2001
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

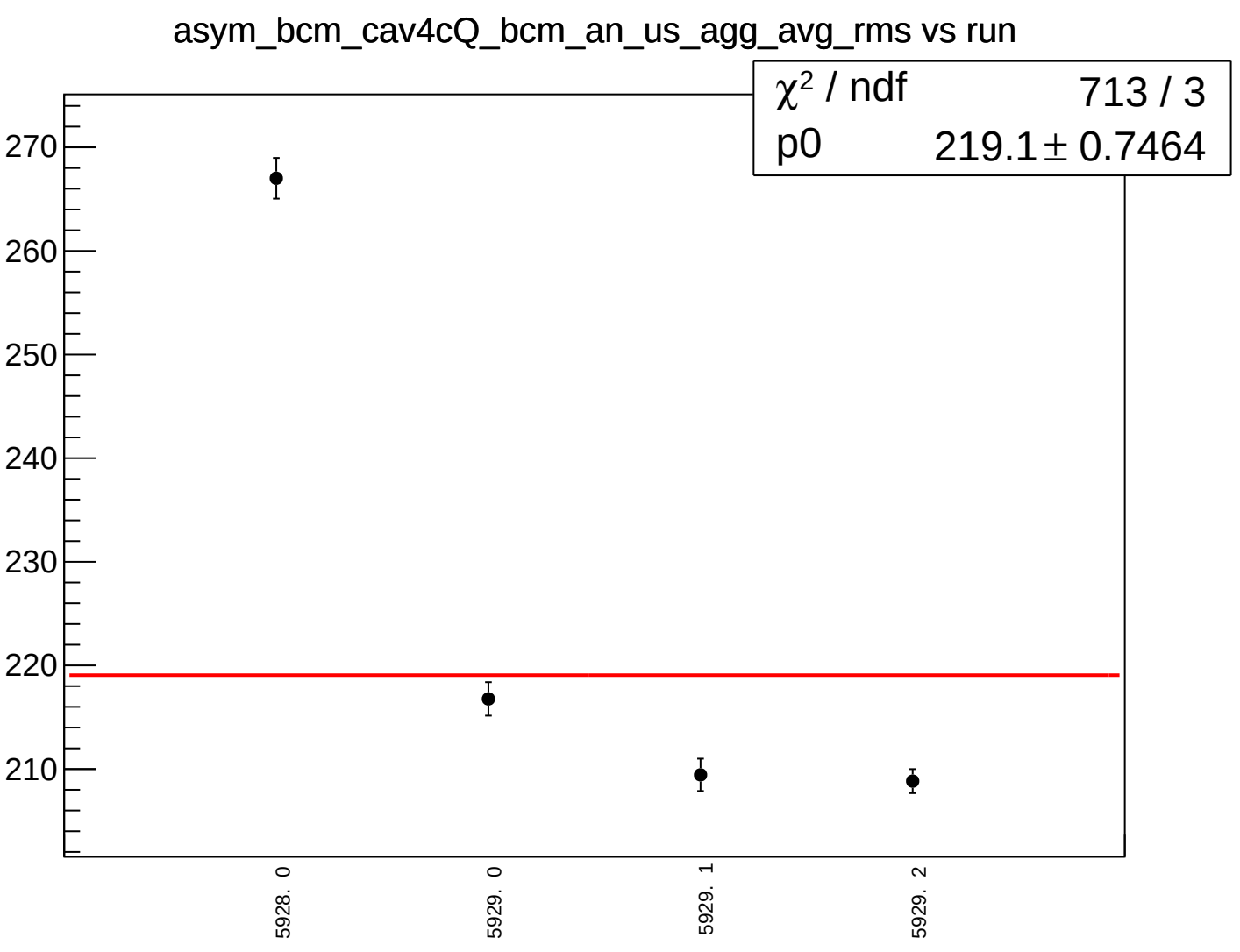

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 741.1 / 3
p0 222.9 ± 0.7594
280
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

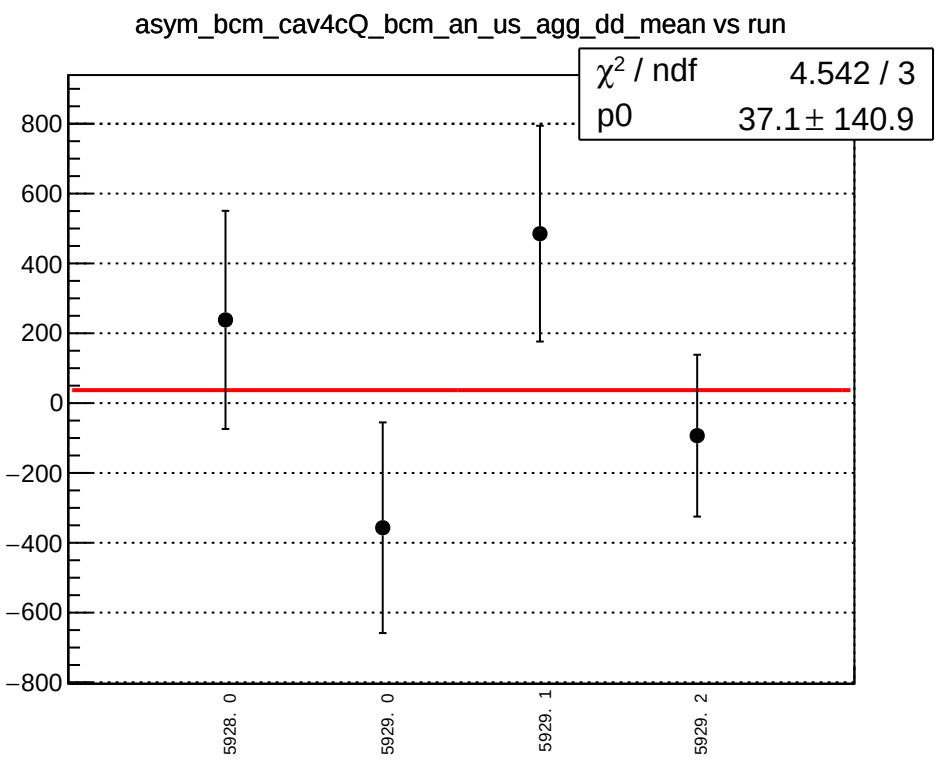

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 2.879 / 3
p0 55.51 ± 121.3
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.2478
Std Dev 3.297
1
0.5
0
−0.5
−1

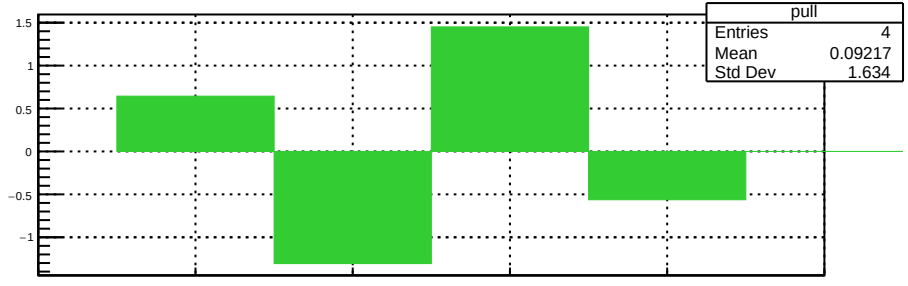

pull1D
Entries 4
Mean −0.08007
Std Dev 0.8446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

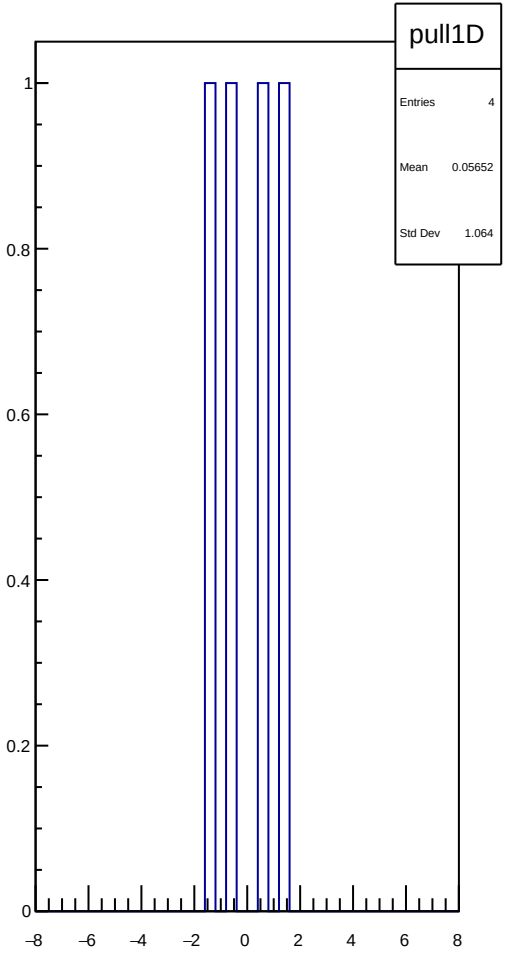

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 26.32 / 3
p0 25.27 ± 0.08574
26
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
5928. 0
5929. 0
5929. 1
5929. 2

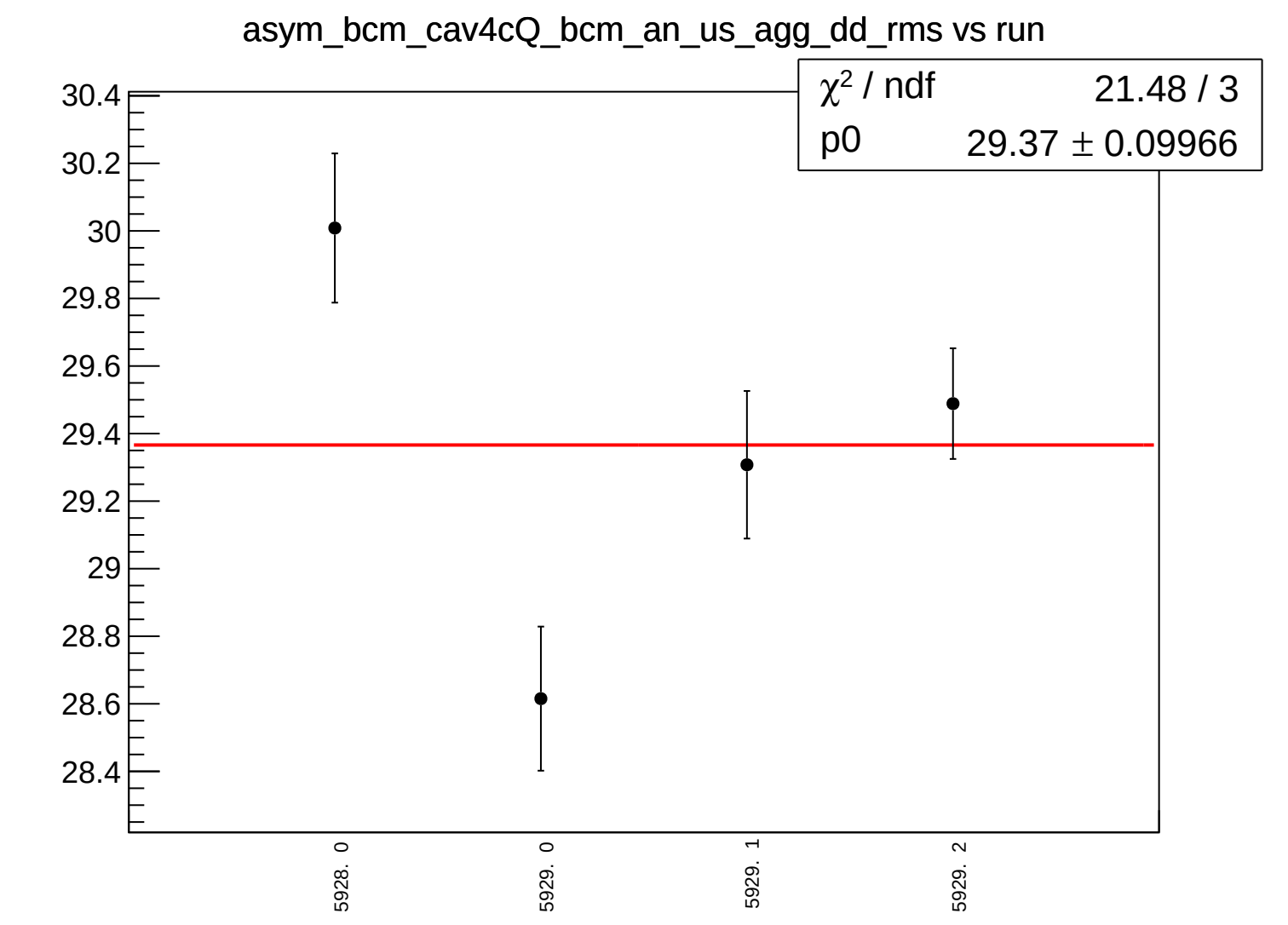

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 0.2437 / 3
p0 151.1 ± 1056
3000
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.097
Std Dev 6.199
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.03818
Std Dev 0.2439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

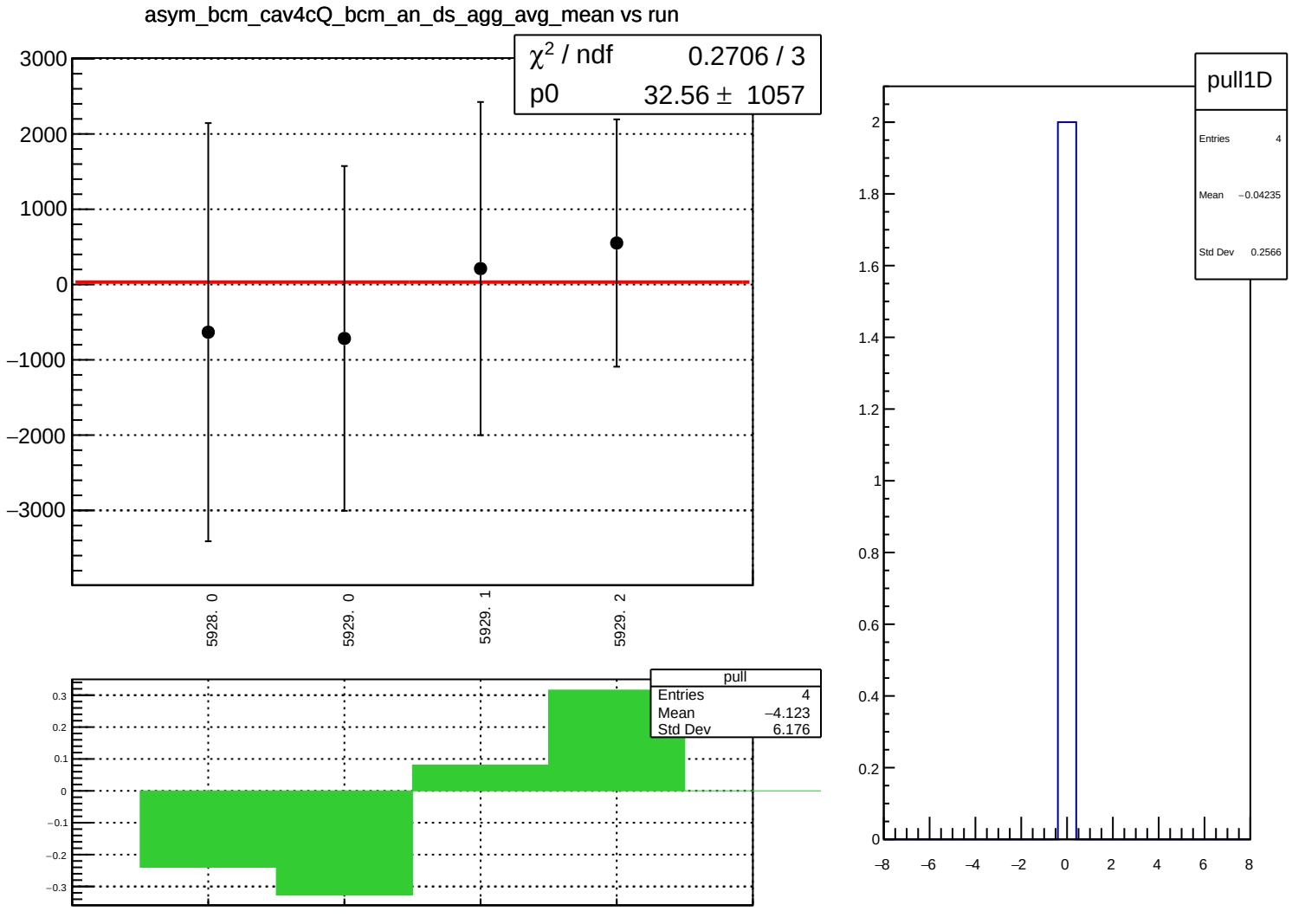

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 713 / 3
p0 219.1 ± 0.7464
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

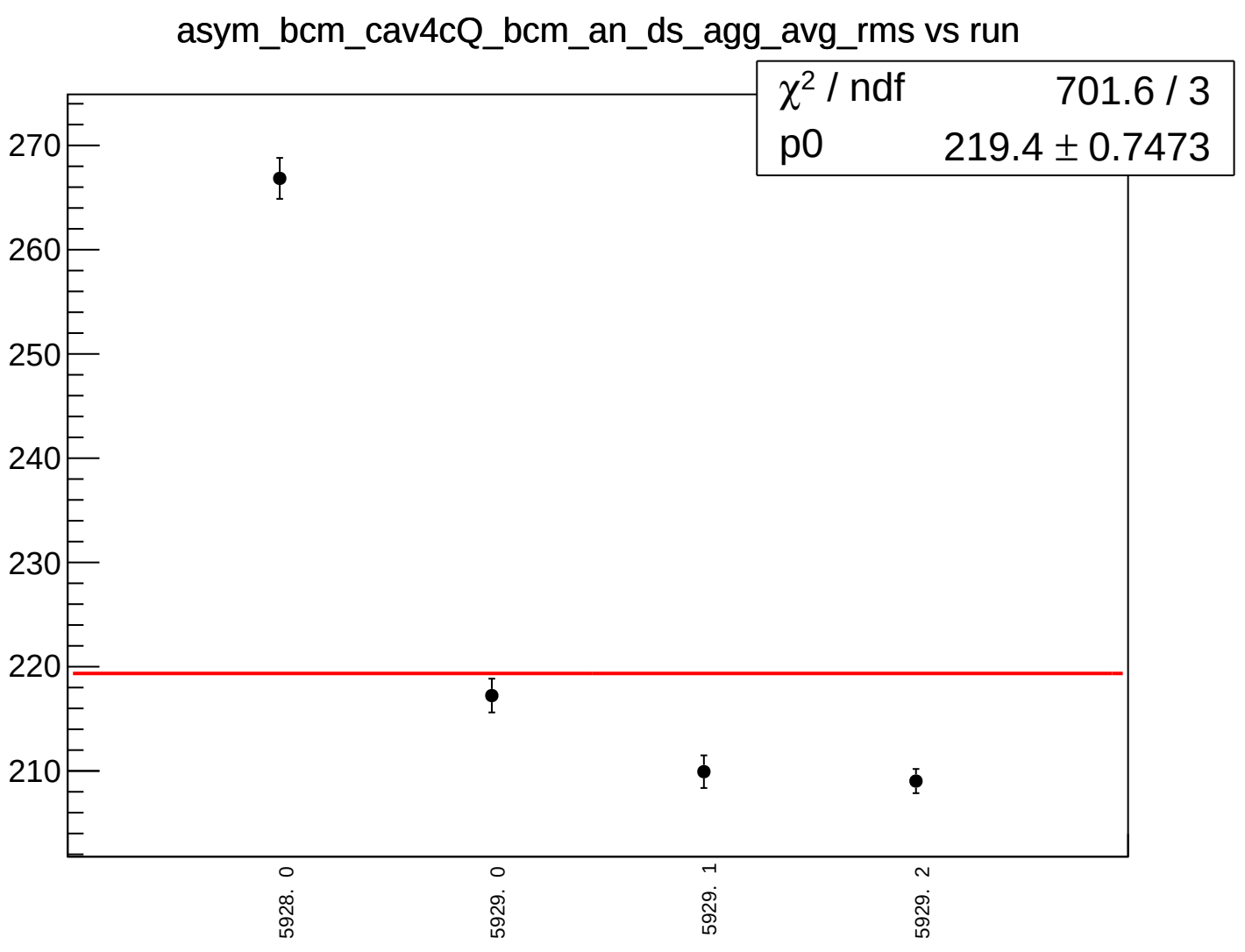

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 4.542 / 3
p0 37.1 ± 140.9
800
600
400
200
0
−200
−400
−600
−800
5928. 0
5929. 0
5929. 1
5929. 2

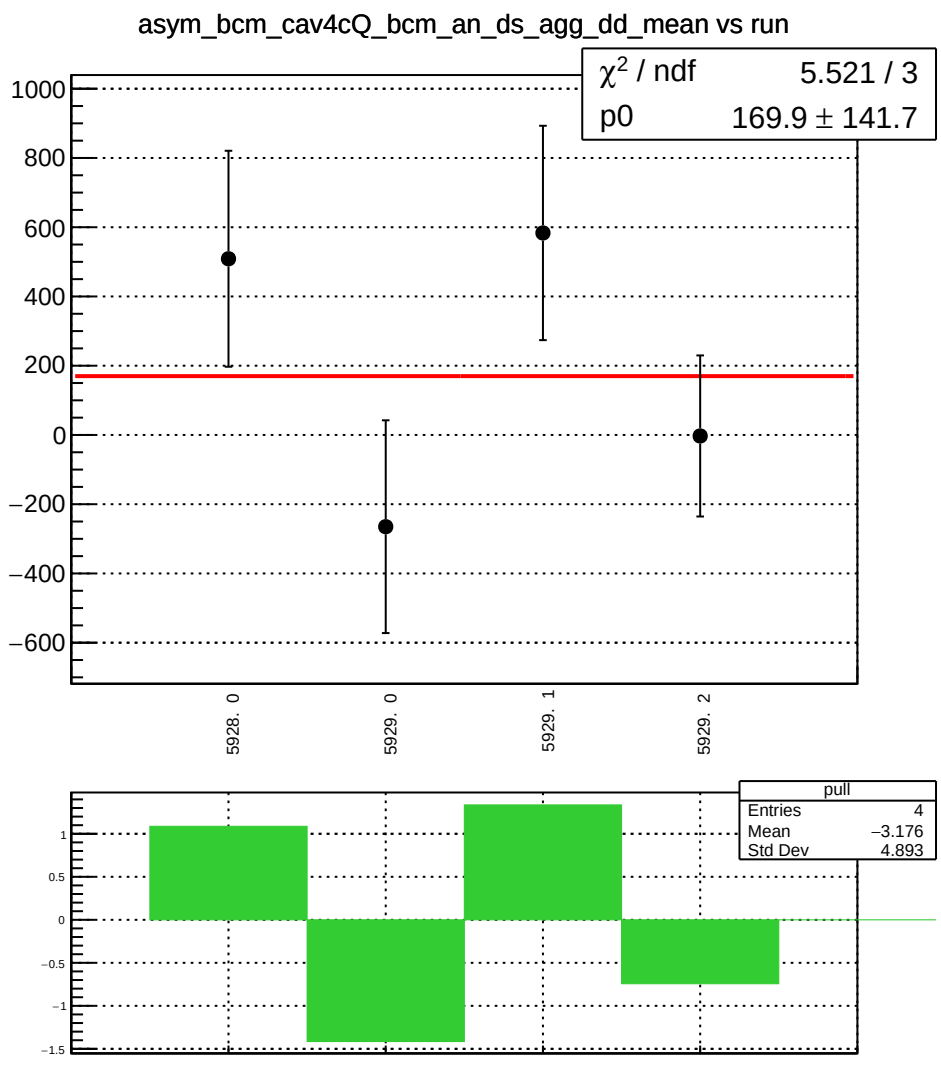

pull
Entries 4
Mean 0.09217
Std Dev 1.634
1.5
1
0.5
0
−0.5
−1

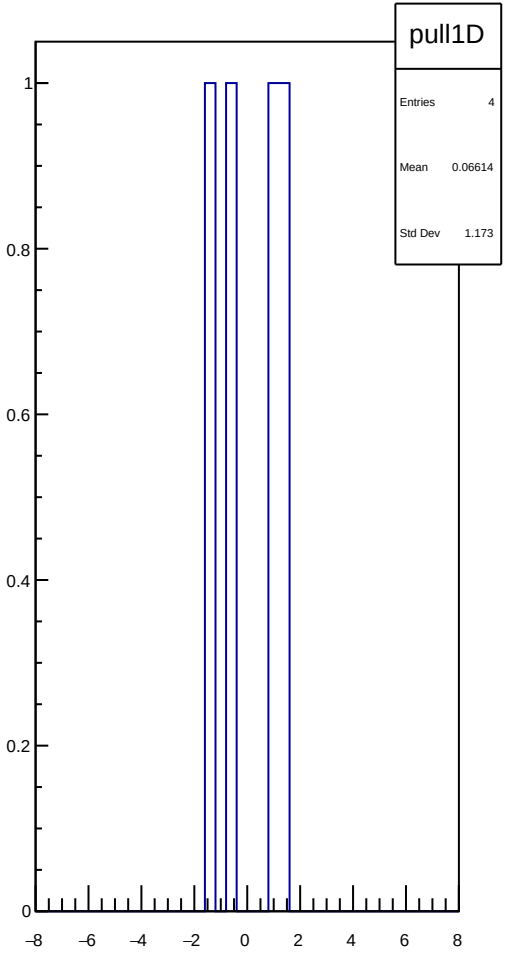

pull1D
Entries 4
Mean 0.05652
Std Dev 1.064
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

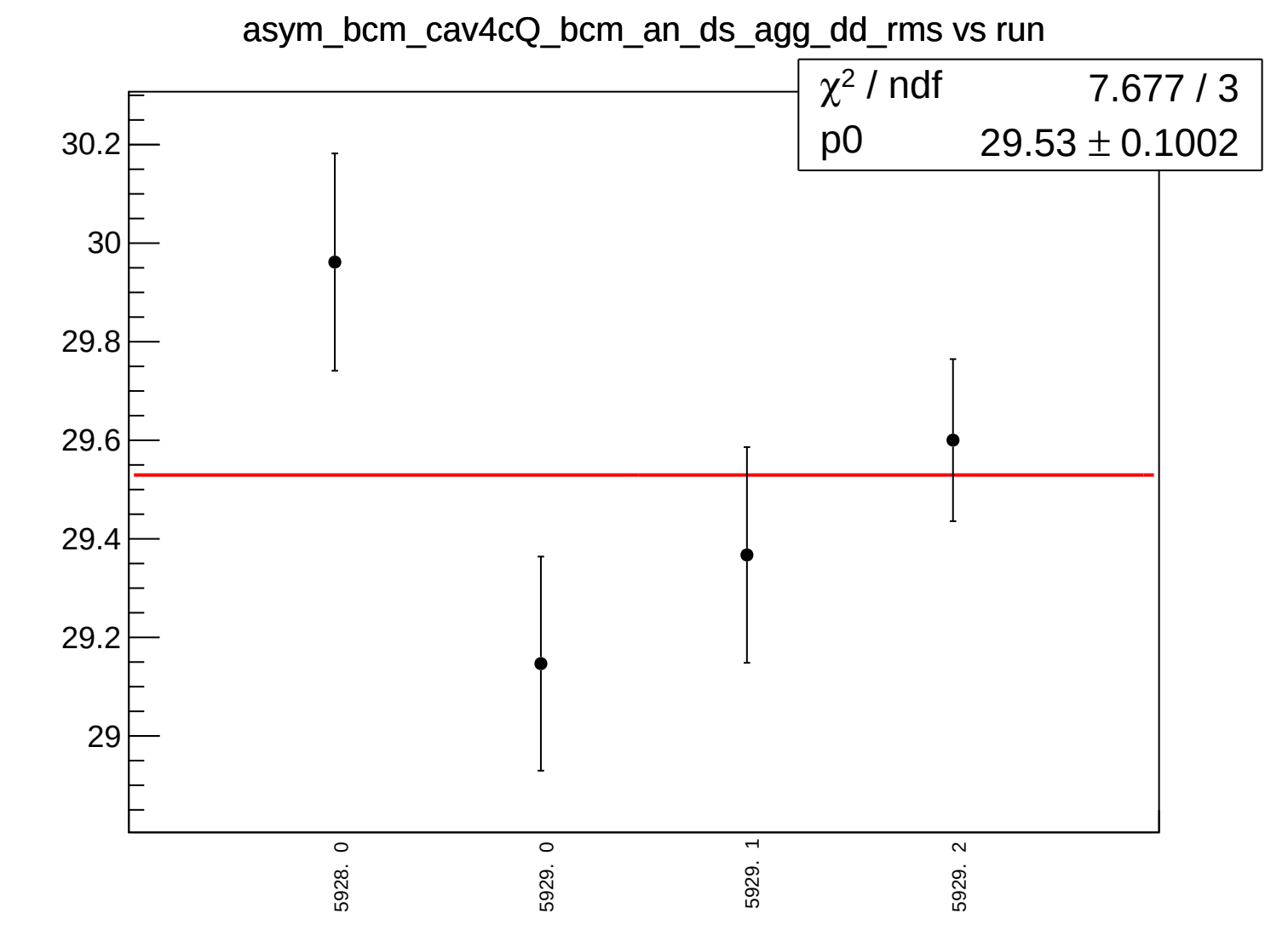

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 21.48 / 3
p0 29.37 ± 0.09966
30.4
30.2
30
29.8
29.6
29.4
29.2
29
28.8
28.6
28.4
5928. 0
5929. 0
5929. 1
5929. 2

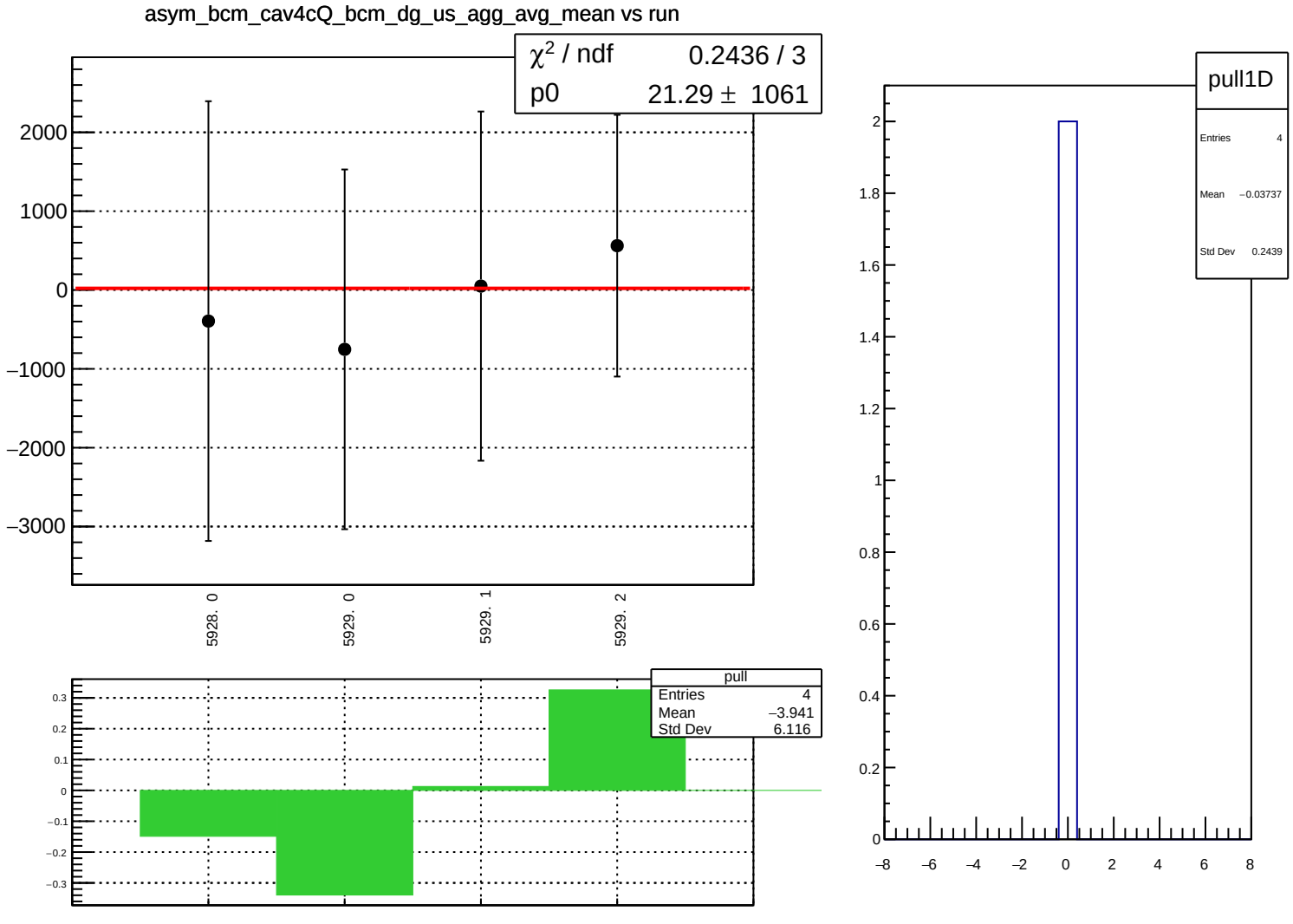

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.2706 / 3
p0 32.56 ± 1057
3000
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.123
Std Dev 6.176
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.04235
Std Dev 0.2566
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

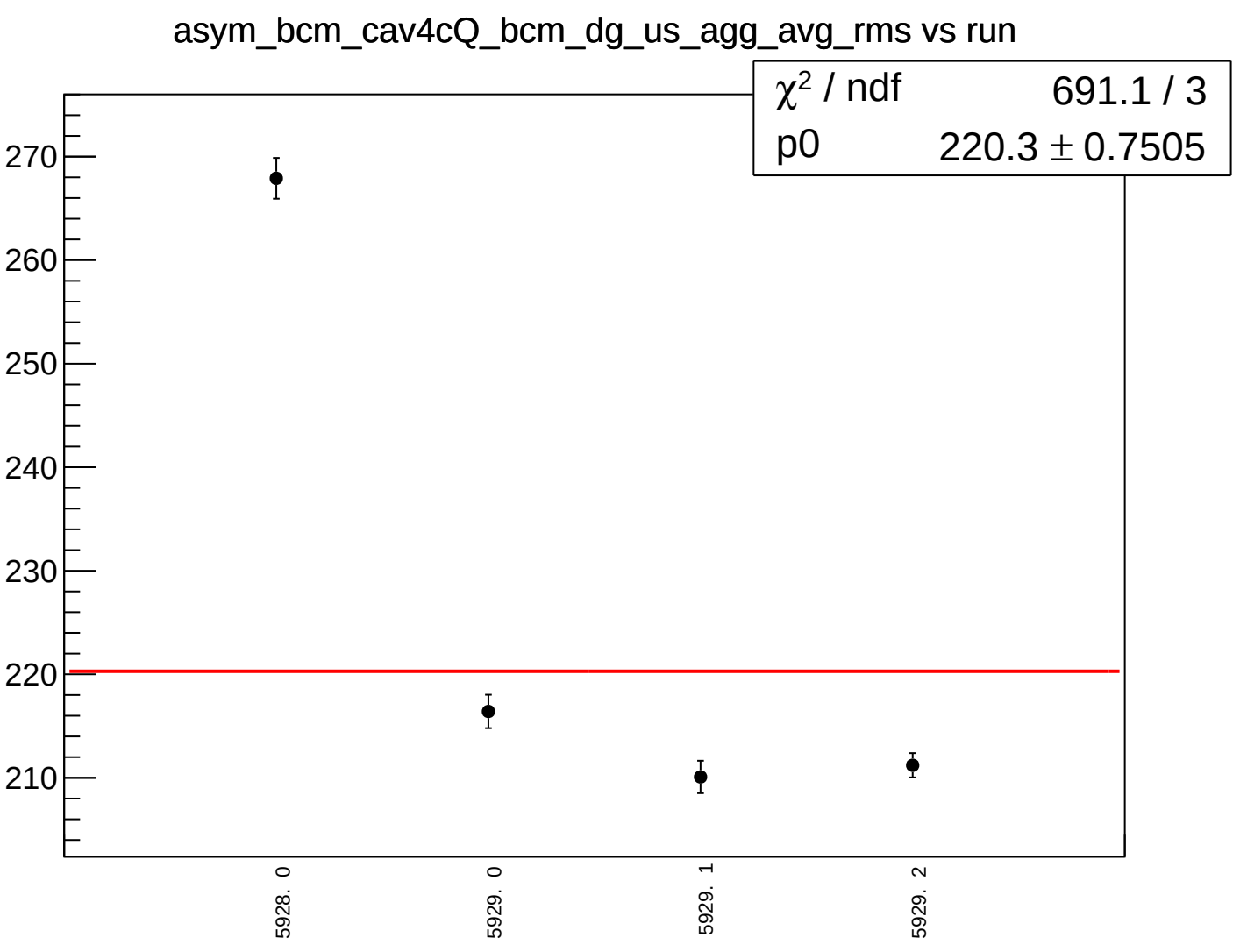

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 701.6 / 3
p0 219.4 ± 0.7473
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

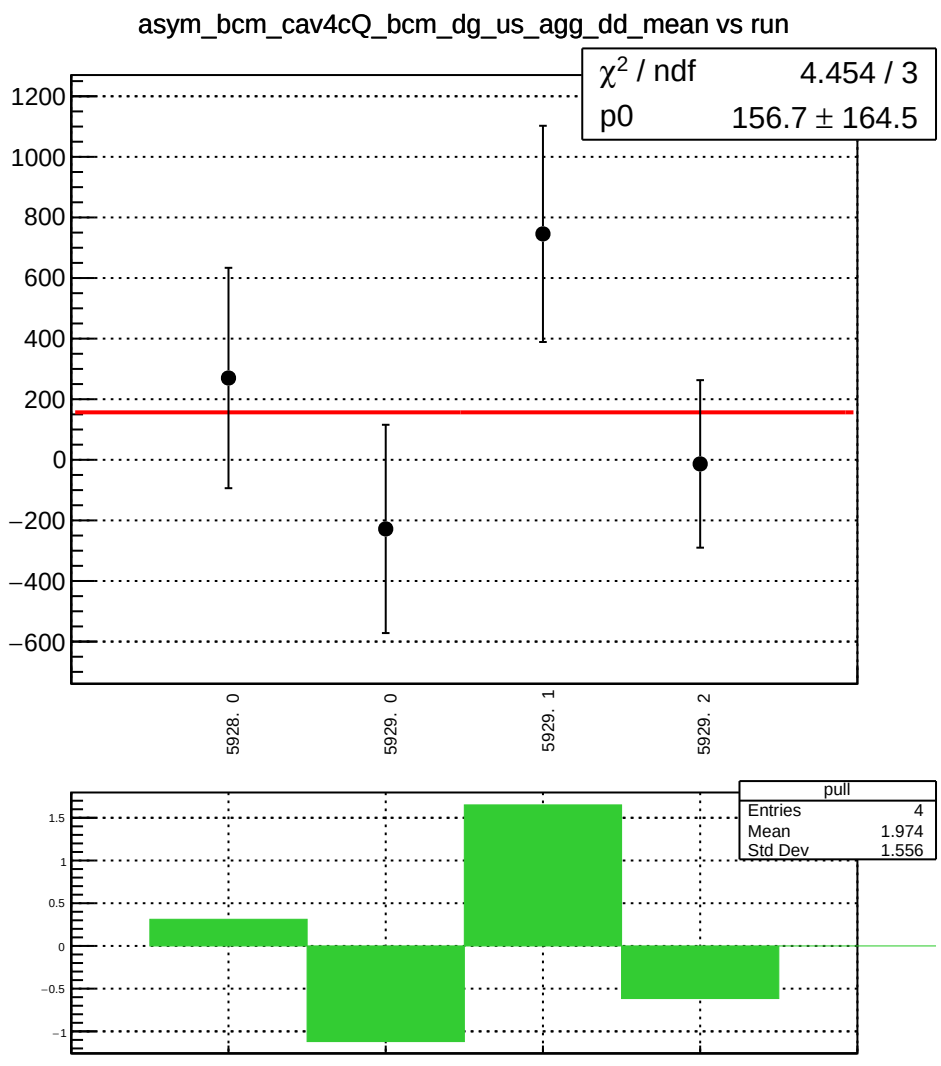

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 5.521 / 3
p0 169.9 ± 141.7
1000
800
600
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.176
Std Dev 4.893
1
0.5
0
−0.5
−1
−1.5

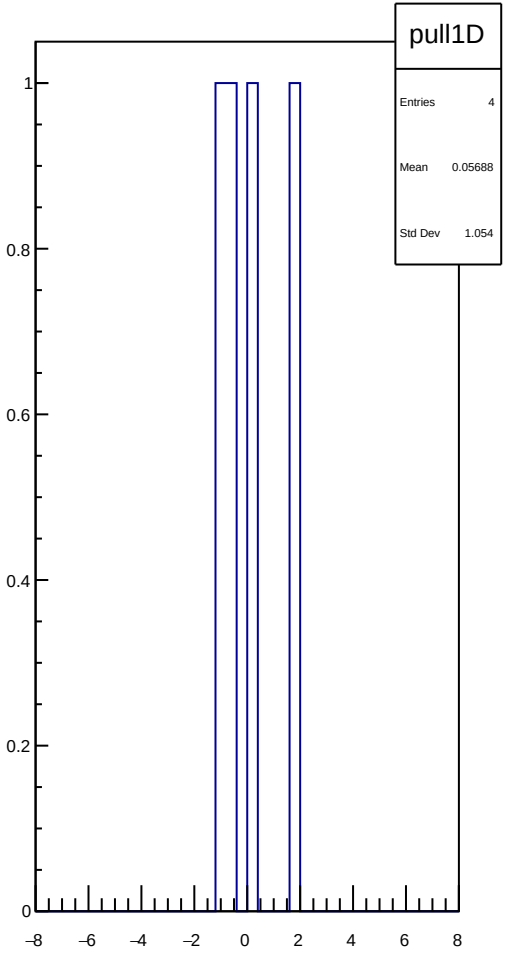

pull1D
Entries 4
Mean 0.06614
Std Dev 1.173
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

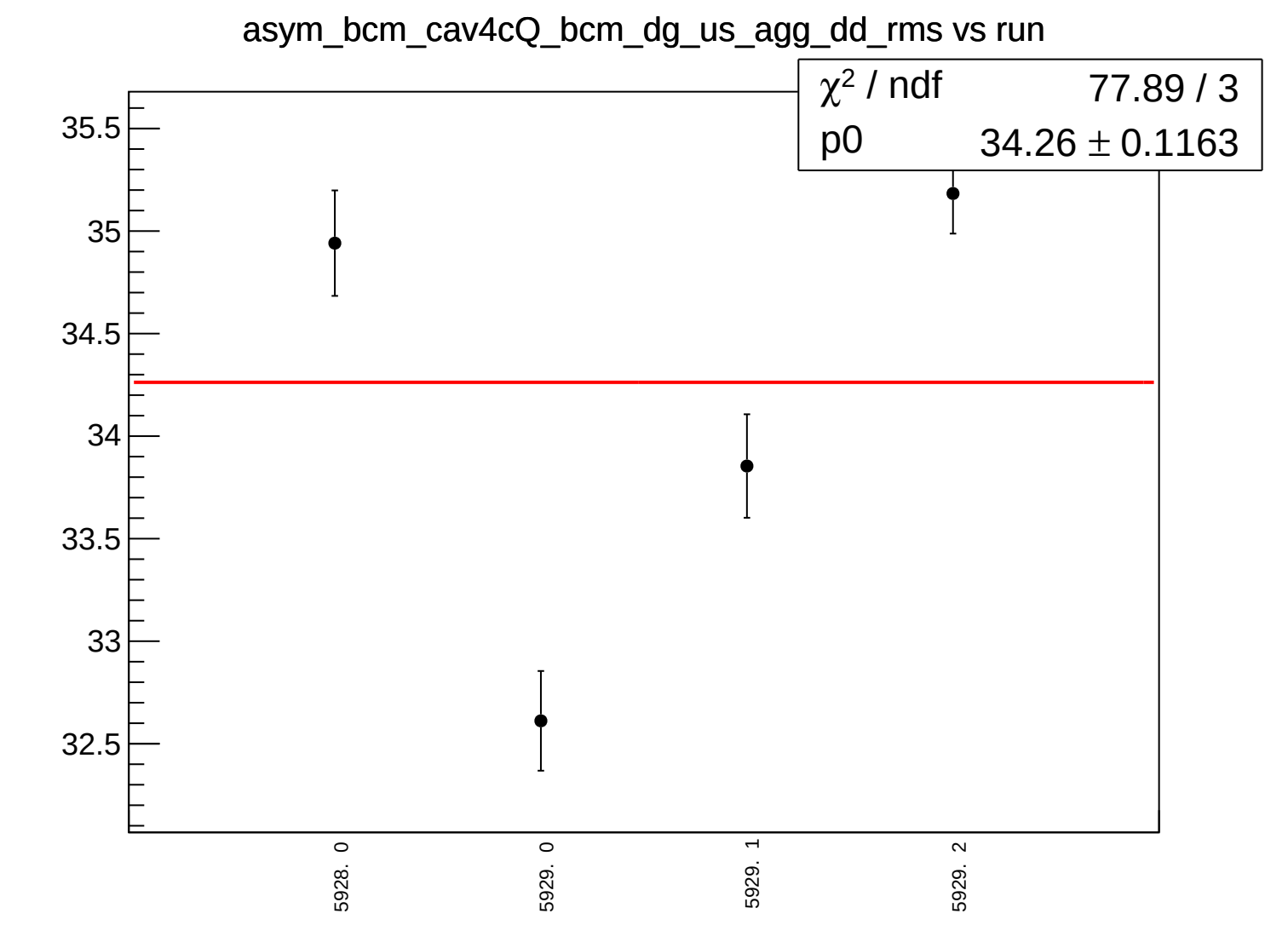

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7.677 / 3
p0 29.53 ± 0.1002
30.2
30
29.8
29.6
29.4
29.2
29
5928. 0
5929. 0
5929. 1
5929. 2

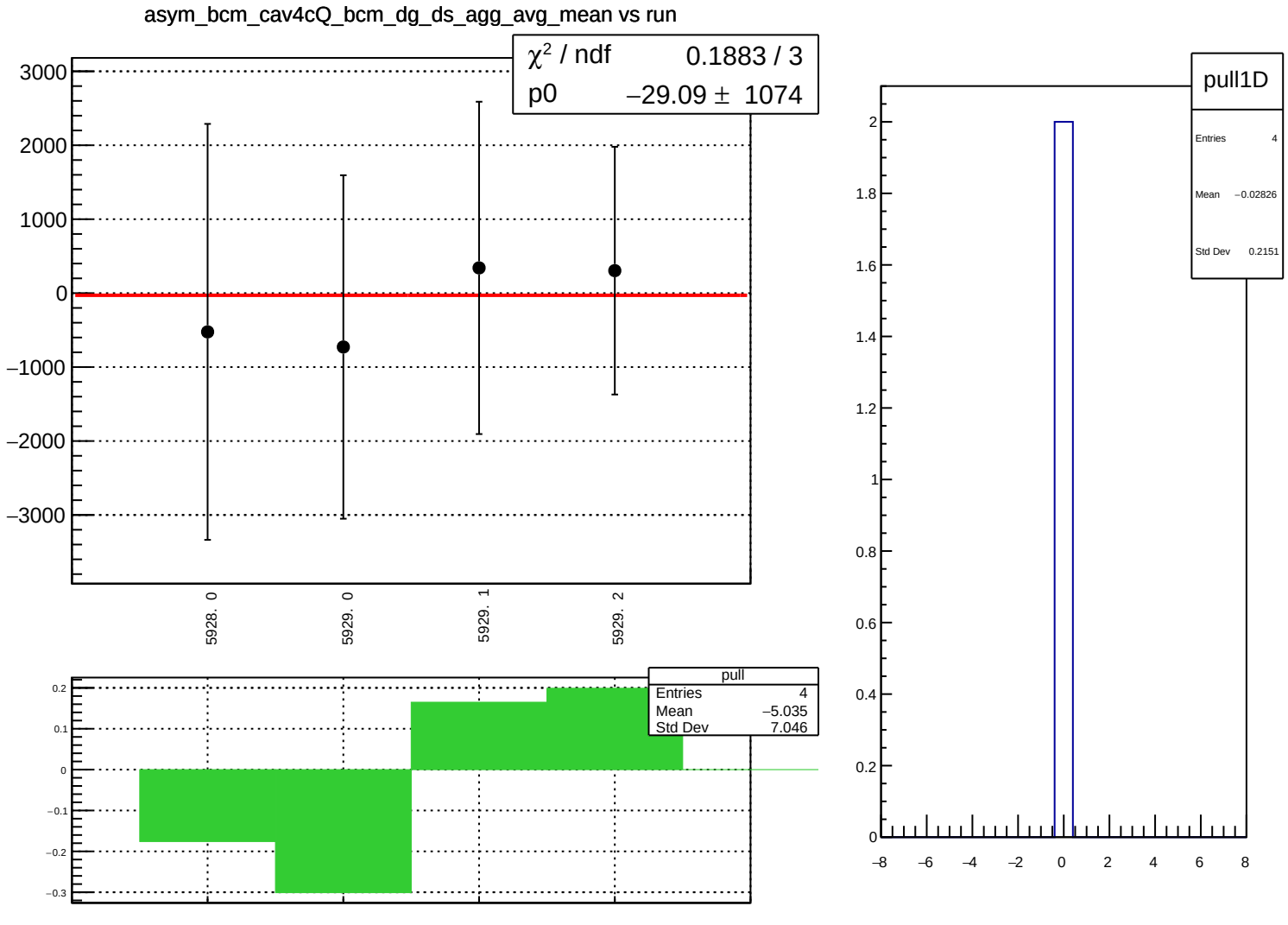

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 0.2436 / 3
p0 21.29 ± 1061
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.941
Std Dev 6.116
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.03737
Std Dev 0.2439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

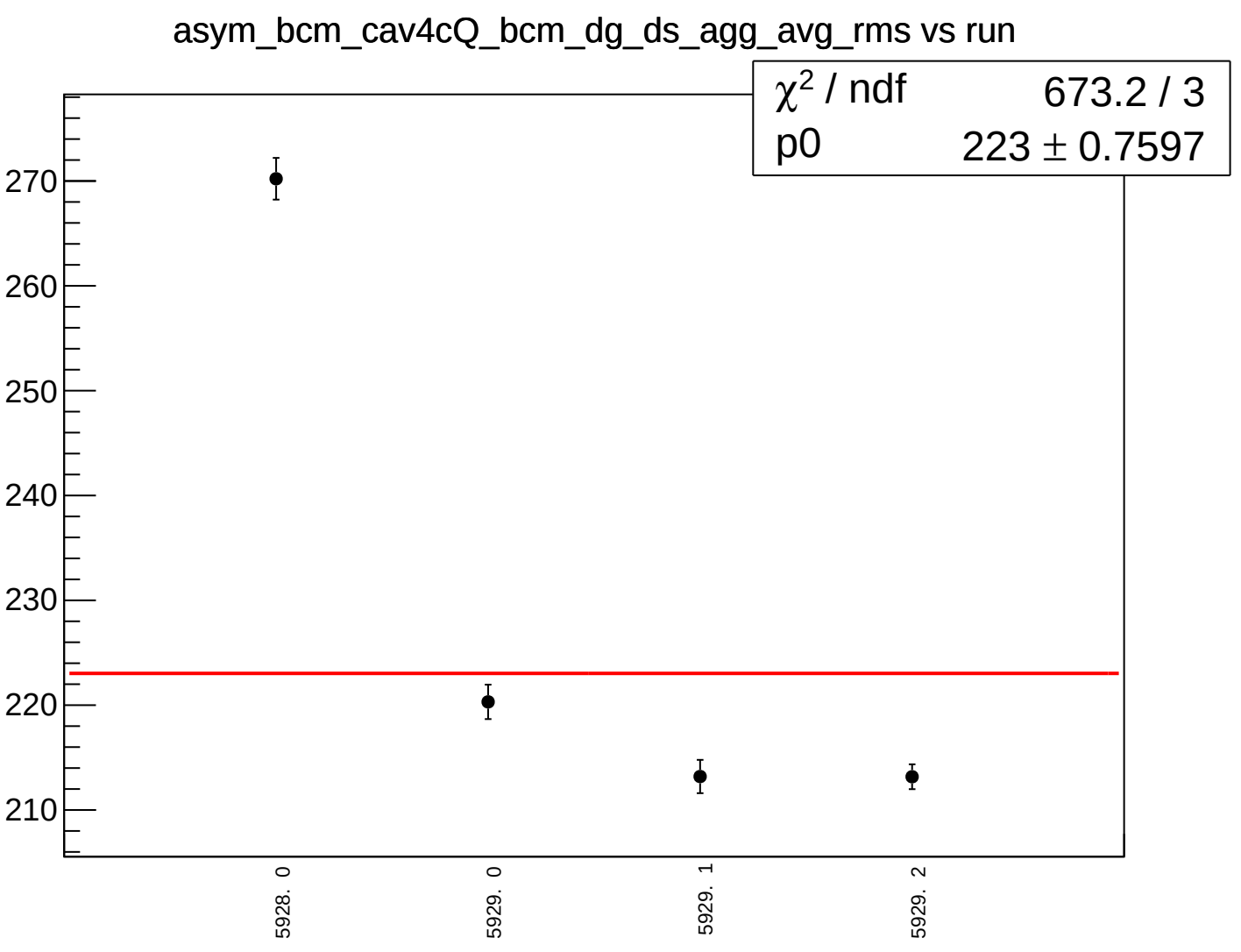

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 691.1 / 3
p0 220.3 ± 0.7505
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

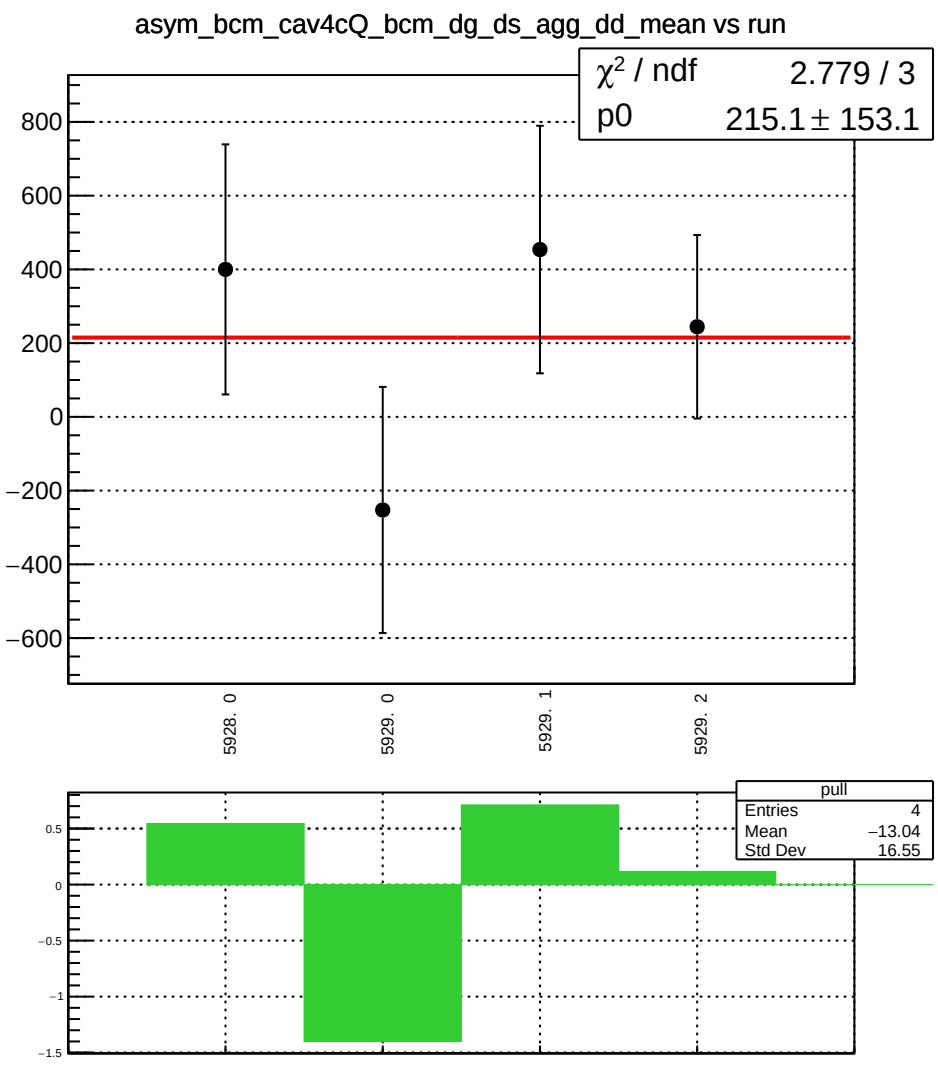

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 4.454 / 3
p0 156.7 ± 164.5
1200
1000
800
600
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.974
Std Dev 1.556
1.5
1
0.5
0
−0.5
−1

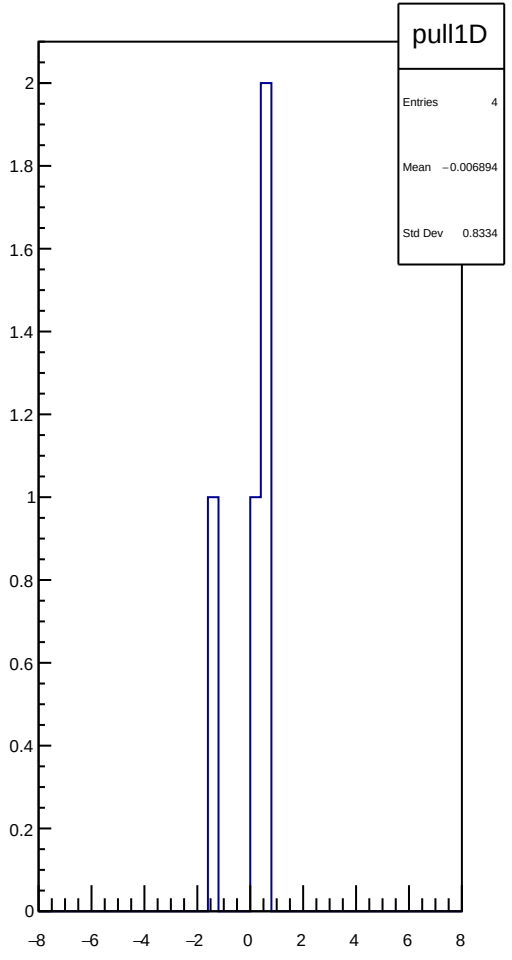

pull1D
Entries 4
Mean 0.05688
Std Dev 1.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

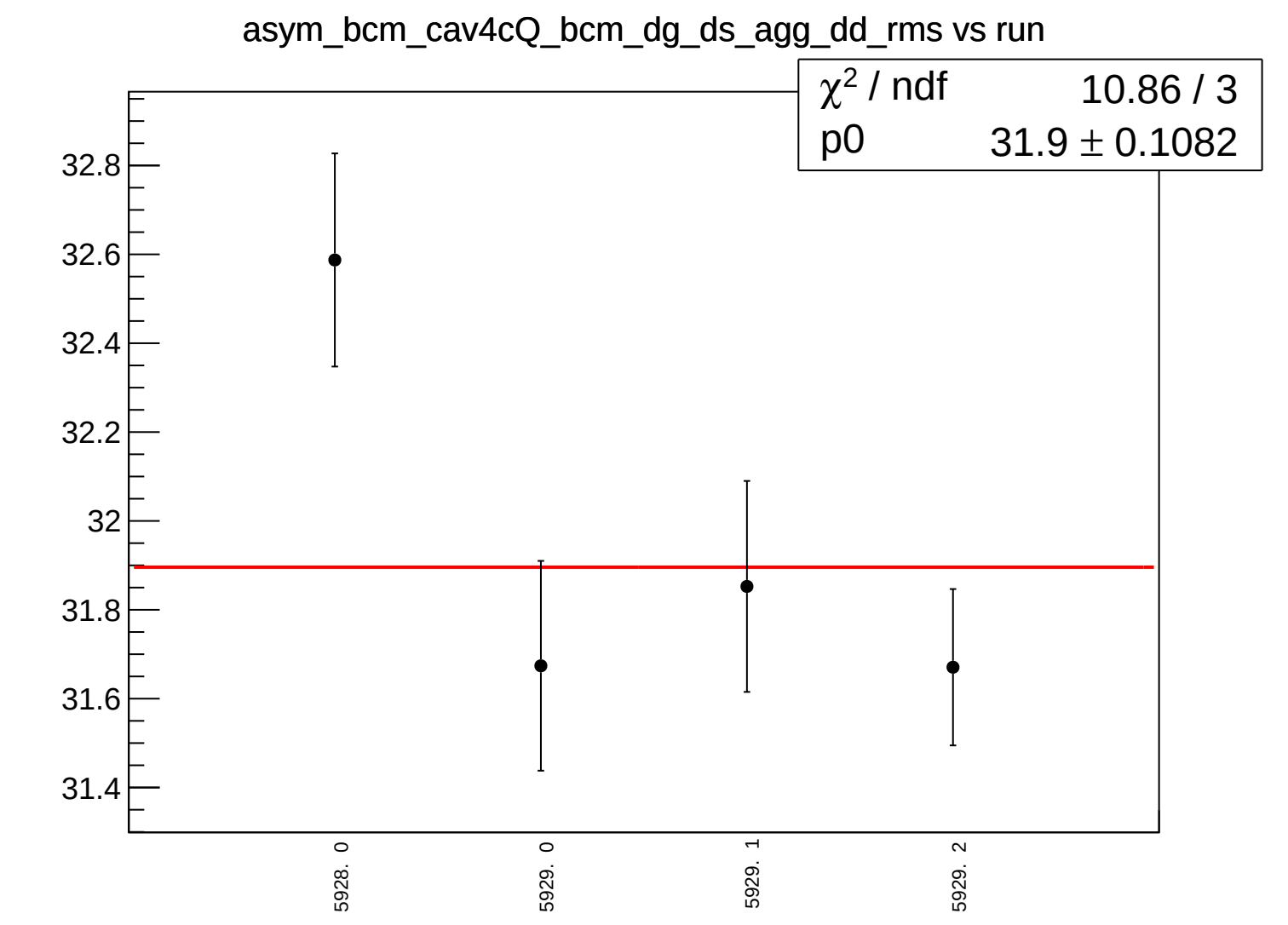

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 77.89 / 3
p0 34.26 ± 0.1163
35.5
35
34.5
34
33.5
33
32.5
5928. 0
5929. 0
5929. 1
5929. 2

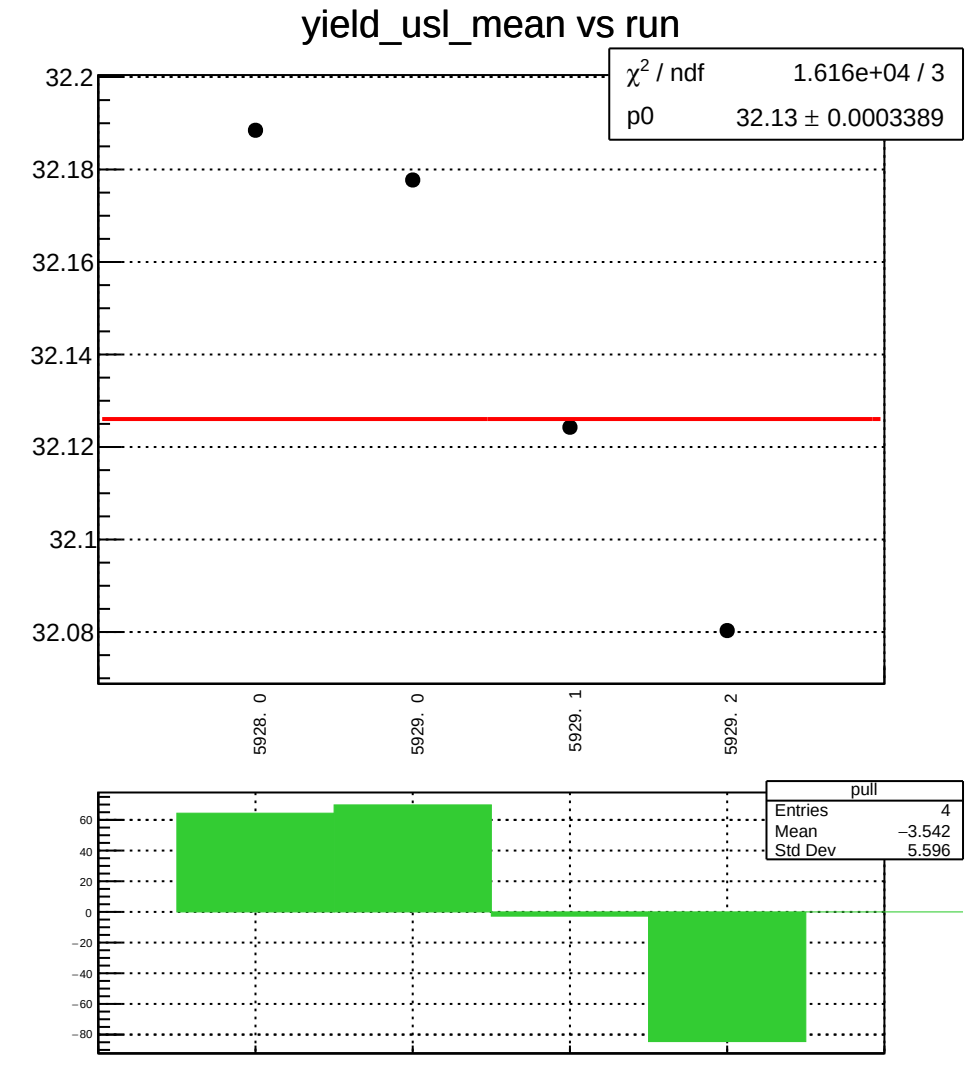

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 0.1883 / 3
p0 −29.09 ± 1074
3000
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.035
Std Dev 7.046
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.02826
Std Dev 0.2151
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

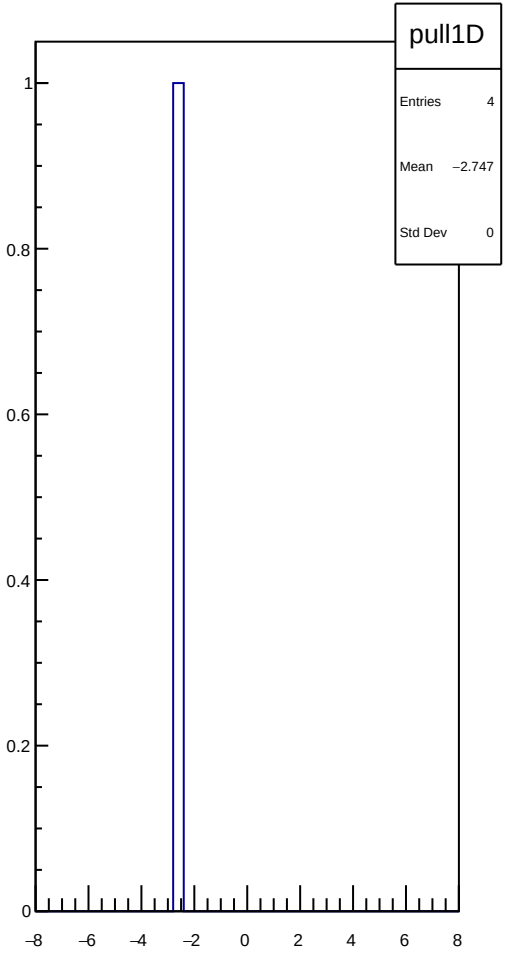

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 673.2 / 3
p0 223 ± 0.7597
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

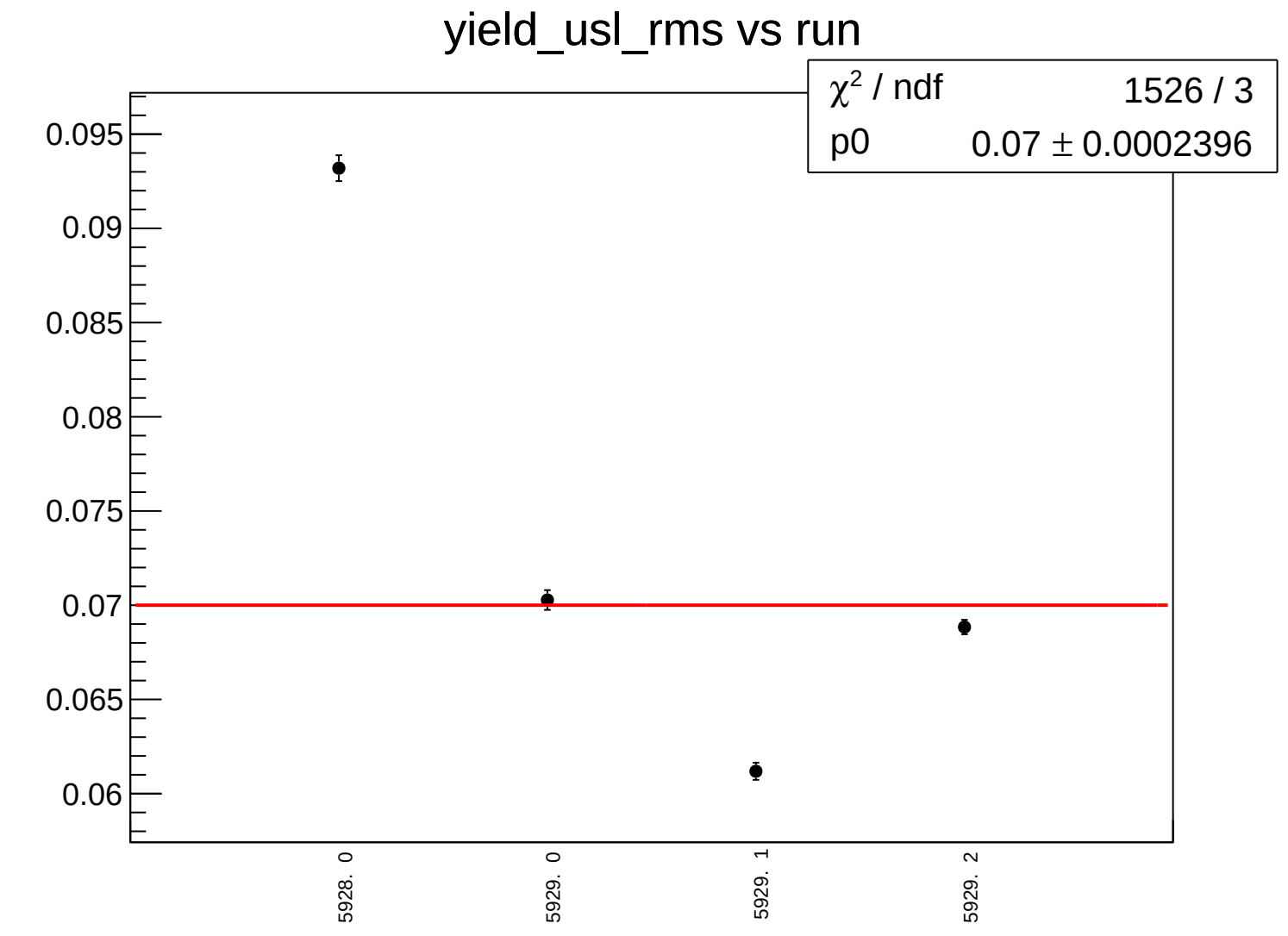

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 2.779 / 3
p0 215.1 ± 153.1
800
600
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.04
Std Dev 16.55
0.5
0
−0.5
−1
−1.5

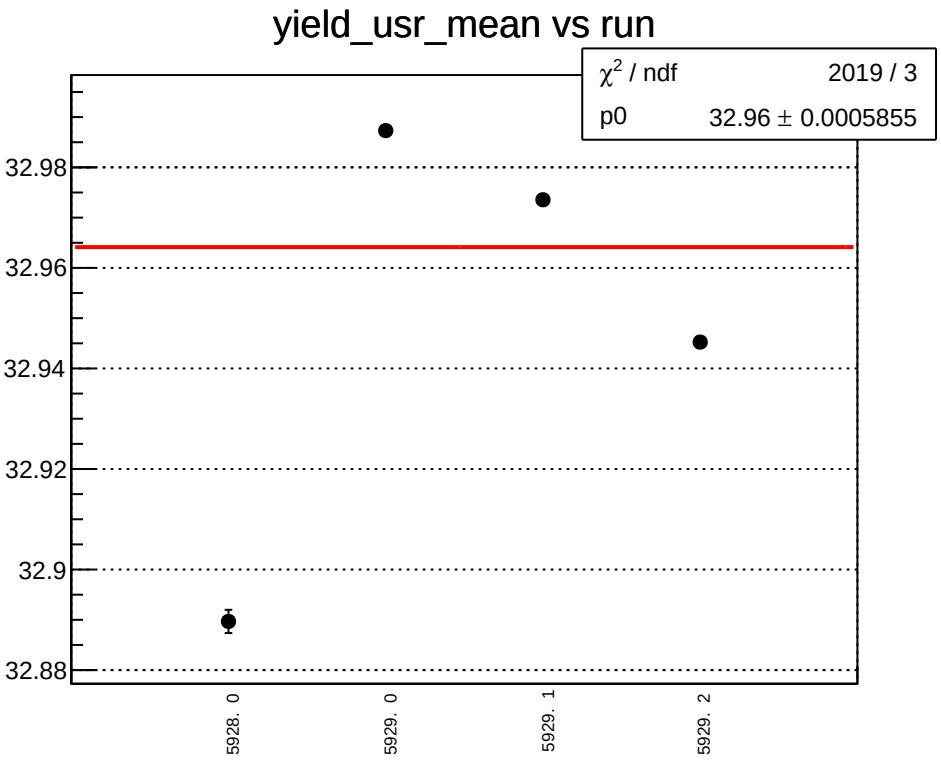

pull1D
Entries 4
Mean −0.006894
Std Dev 0.8334
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

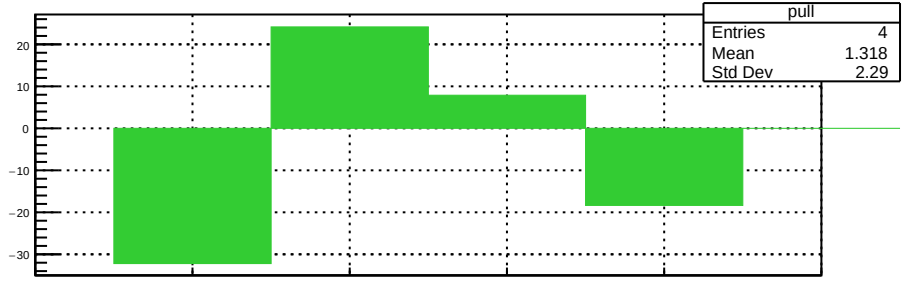

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 10.86 / 3
p0 31.9 ± 0.1082
32.8
32.6
32.4
32.2
32
31.8
31.6
31.4
5928. 0
5929. 0
5929. 1
5929. 2

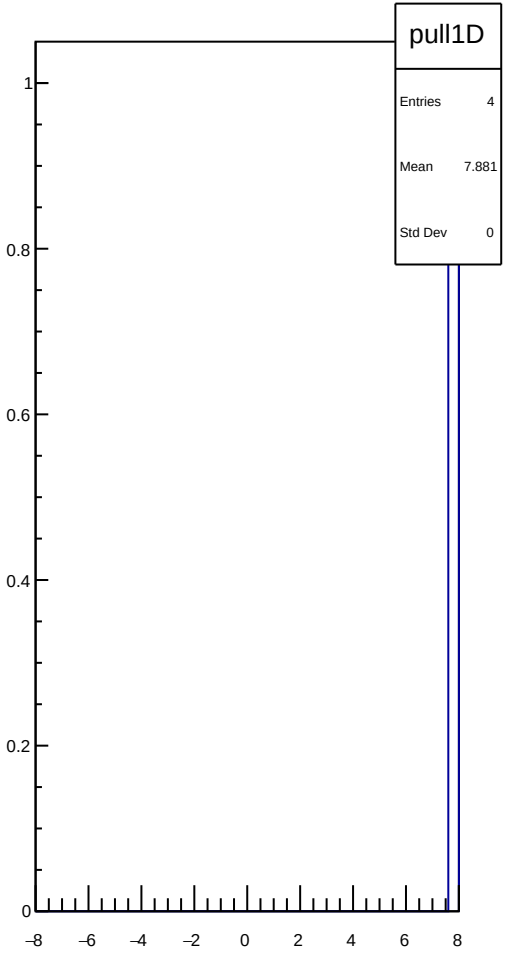

yield_usl_mean vs run
χ² / ndf 1.616e+04 / 3
p0 32.13 ± 0.0003389
32.2
32.18
32.16
32.14
32.12
32.1
32.08
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.542
Std Dev 5.596
60
40
20
0
−20
−40
−60
−80

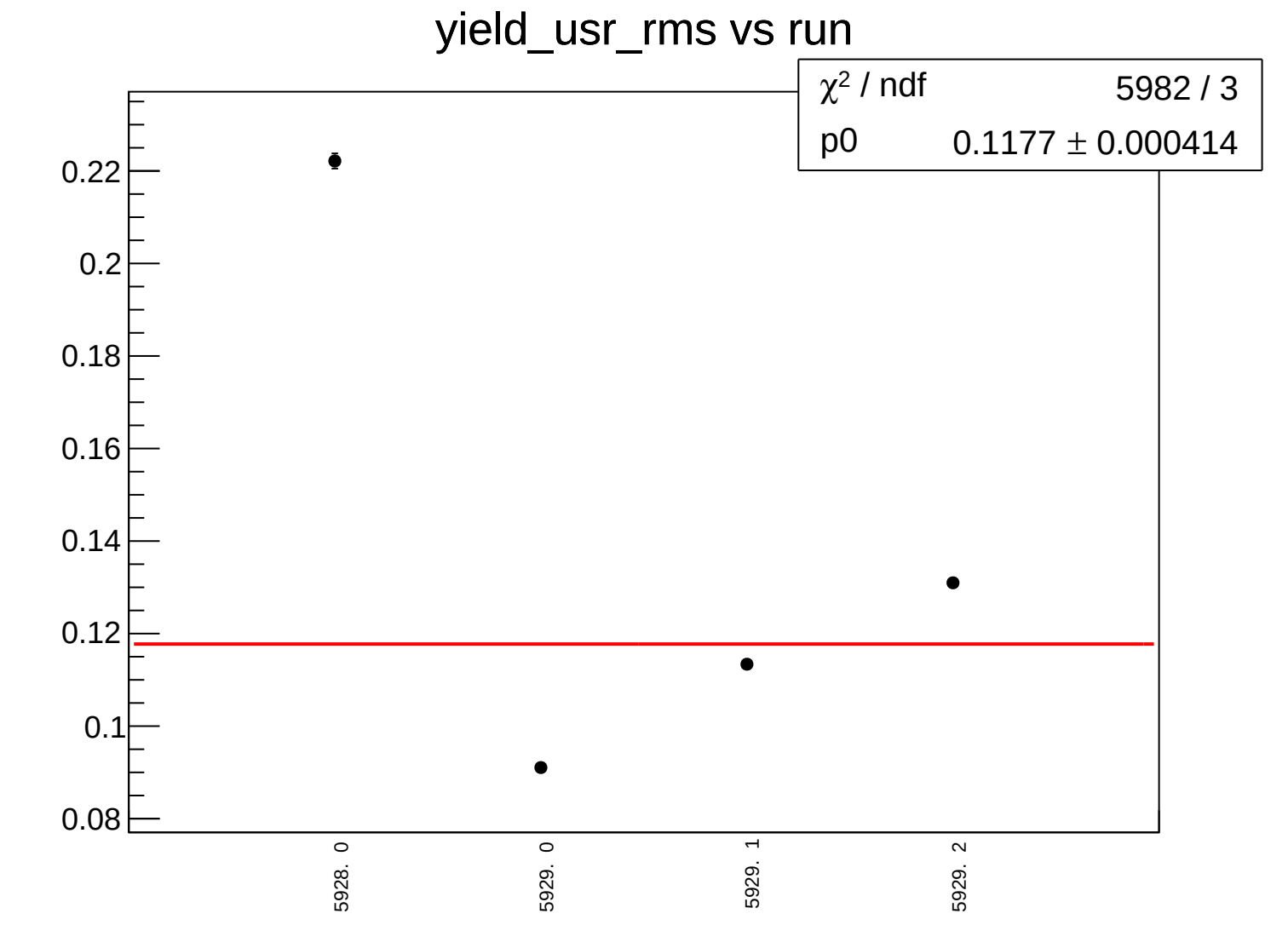

pull1D
Entries 4
Mean −2.747
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

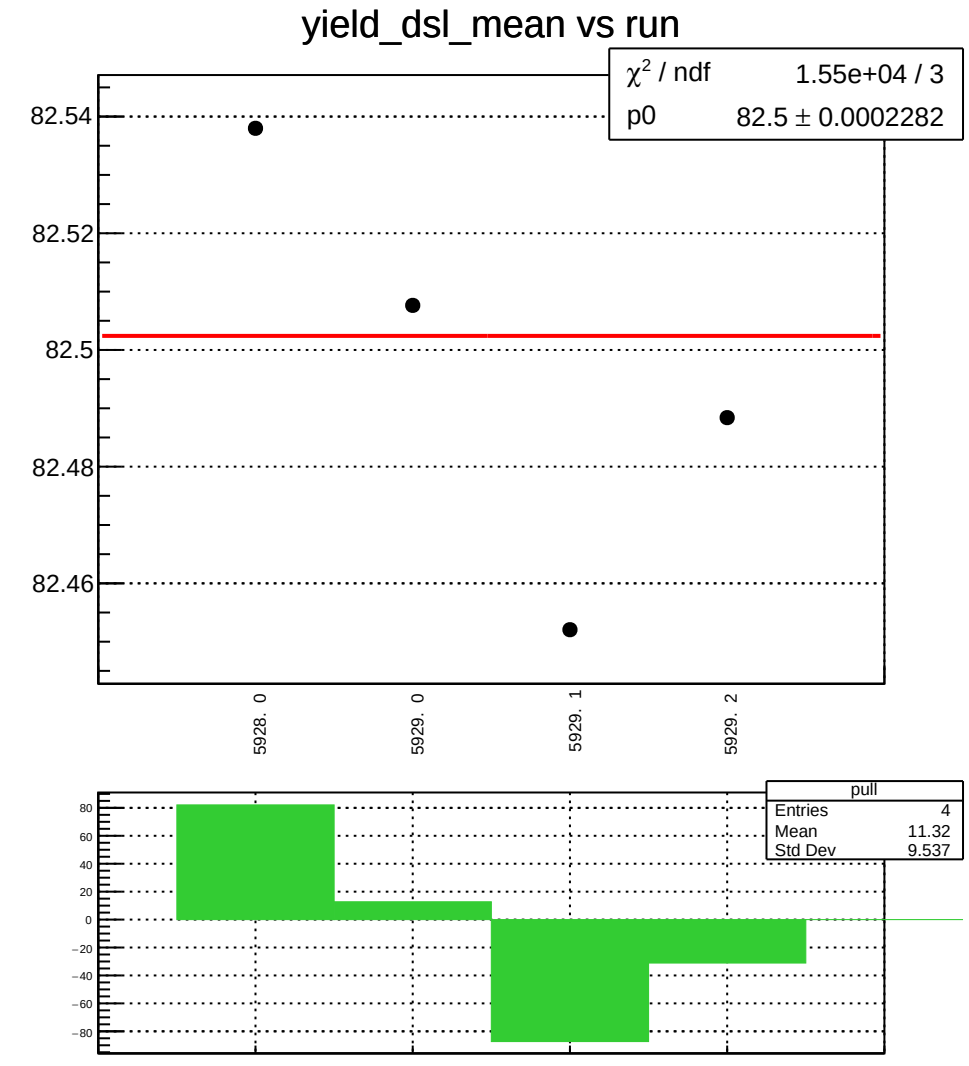

yield_usl_rms vs run
χ² / ndf 1526 / 3
p0 0.07 ± 0.0002396
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06
5928. 0
5929. 0
5929. 1
5929. 2

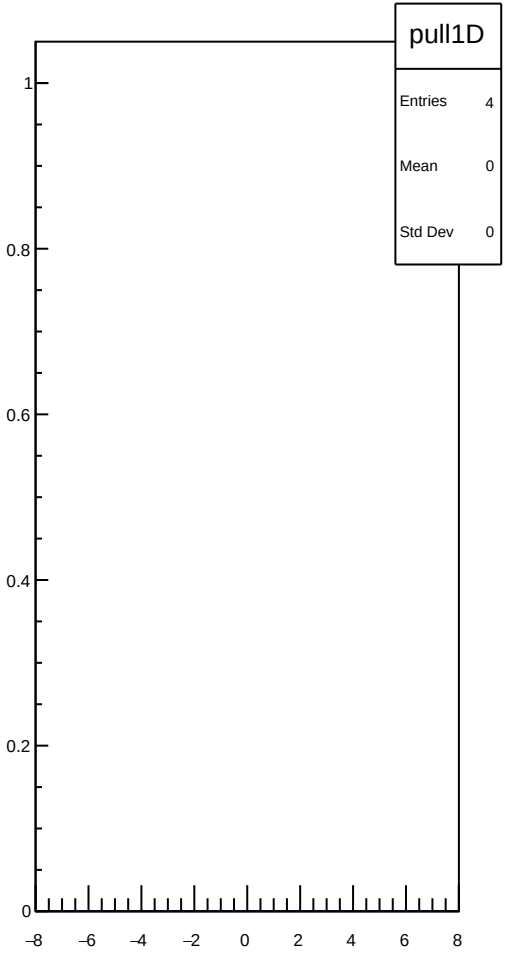

yield_usr_mean vs run
χ² / ndf 2019 / 3
p0 32.96 ± 0.0005855
32.98
32.96
32.94
32.92
32.9
32.88
5928. 0
5929. 0
5929. 1
5929. 2

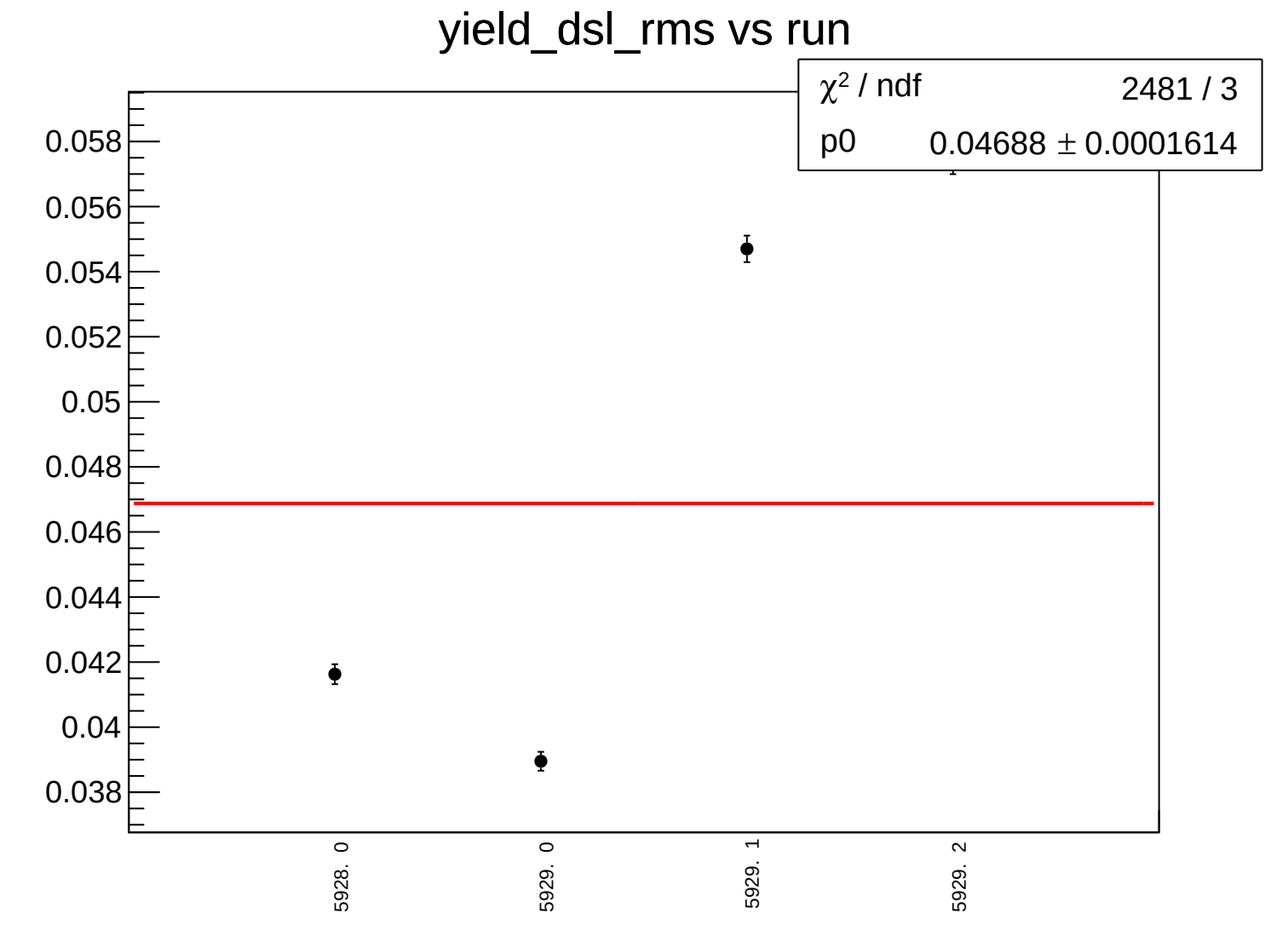

pull
Entries 4
Mean 1.318
Std Dev 2.29
20
10
0
−10
−20
−30

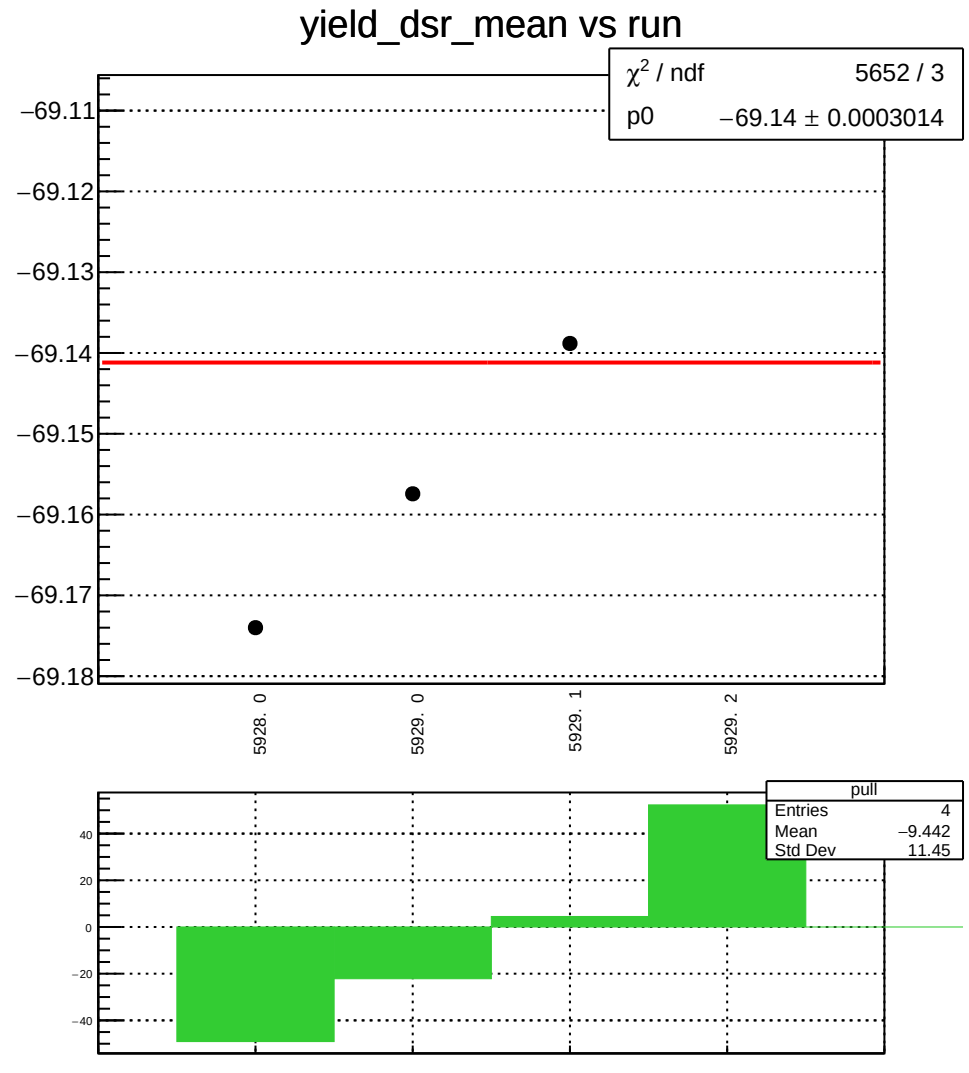

pull1D
Entries 4
Mean 7.881
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

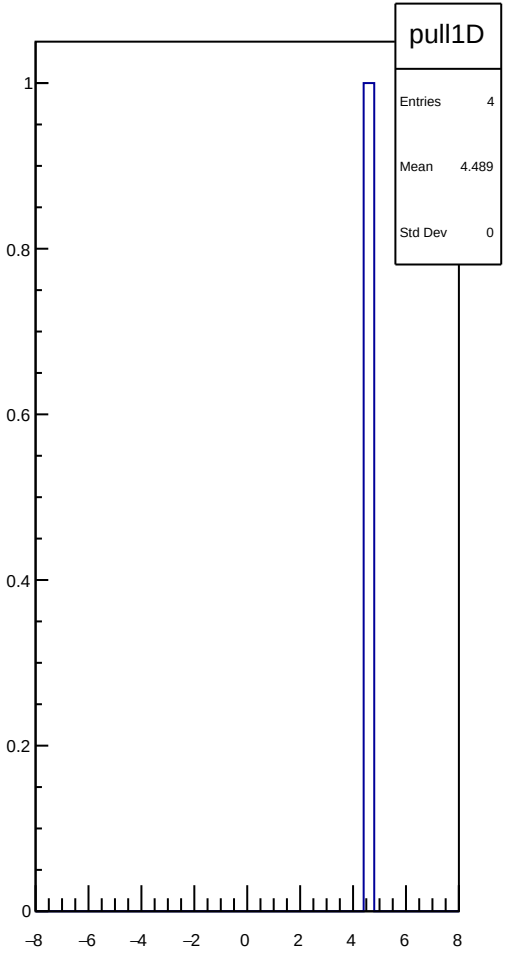

yield_usr_rms vs run
χ² / ndf 5982 / 3
p0 0.1177 ± 0.000414
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
5928. 0
5929. 0
5929. 1
5929. 2

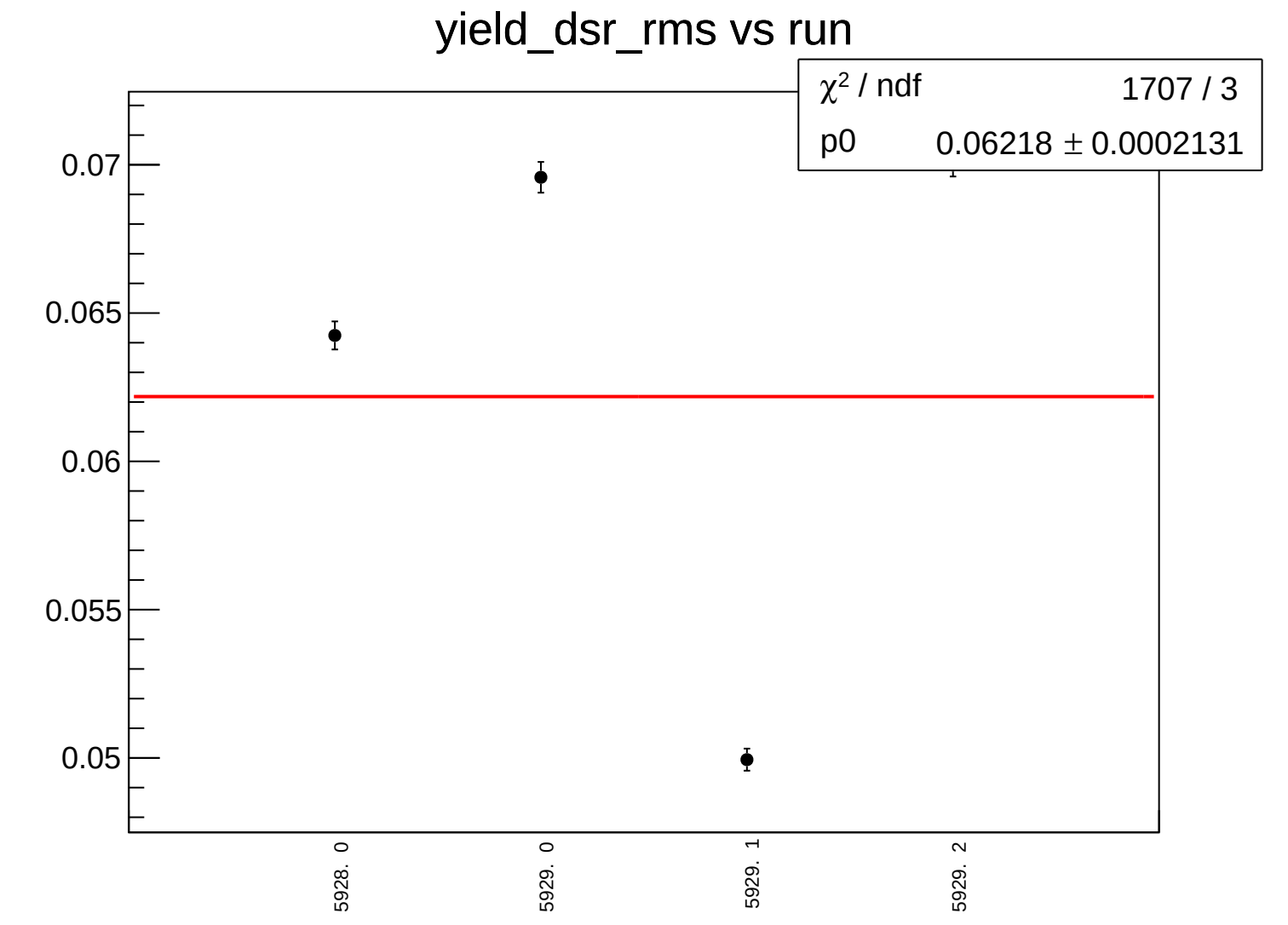

yield_dsl_mean vs run
χ² / ndf 1.55e+04 / 3
p0 82.5 ± 0.0002282
82.54
82.52
82.5
82.48
82.46
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.32
Std Dev 9.537
80
60
40
20
0
−20
−40
−60
−80

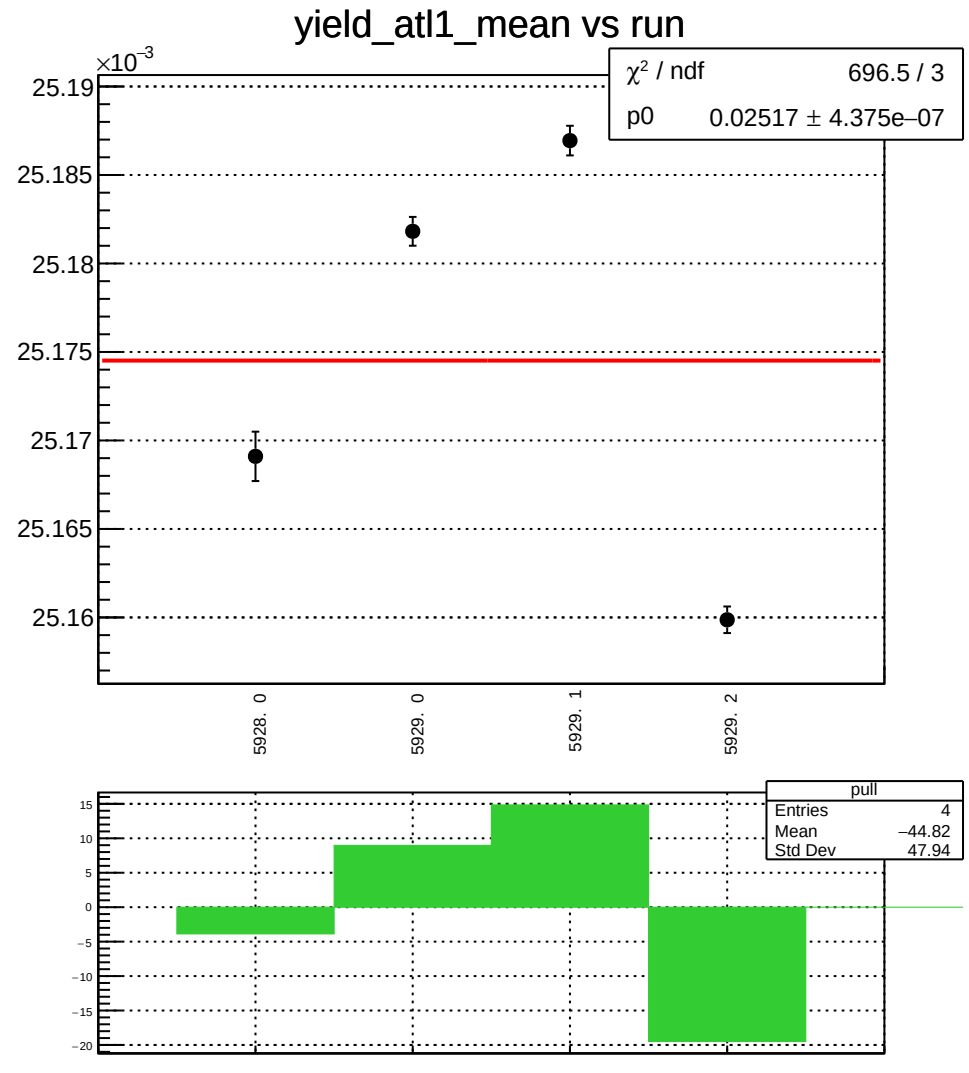

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

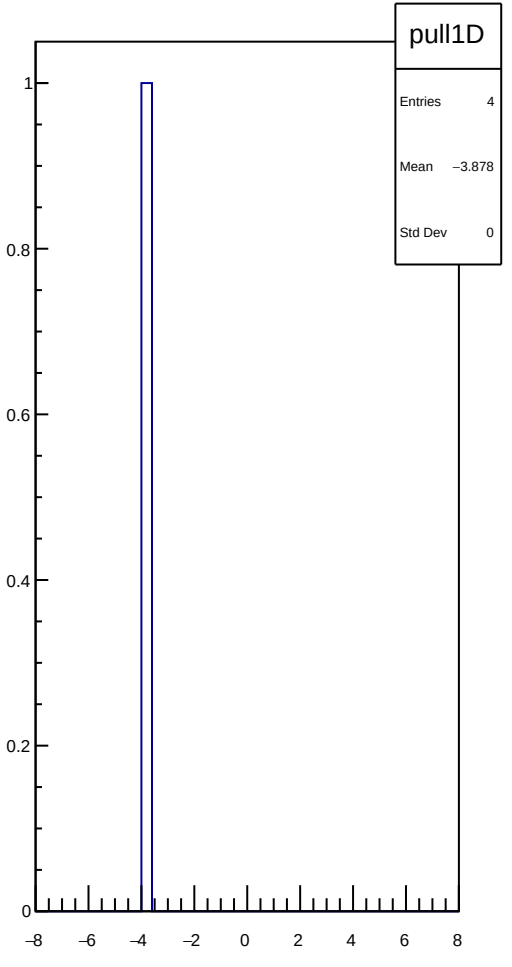

yield_dsl_rms vs run
χ² / ndf 2481 / 3
p0 0.04688 ± 0.0001614
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
5928. 0
5929. 0
5929. 1
5929. 2

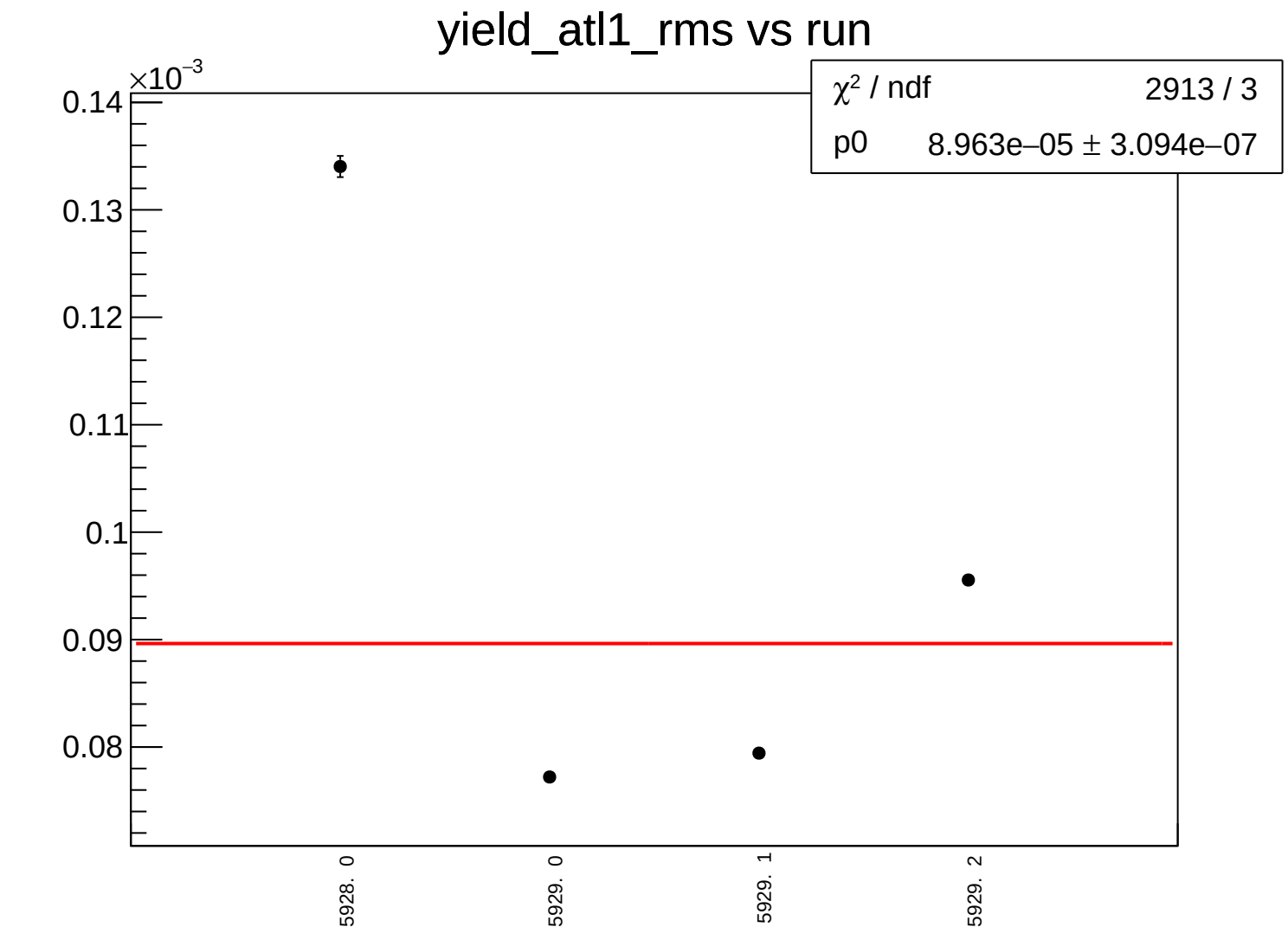

yield_dsr_mean vs run
χ² / ndf 5652 / 3
p0 −69.14 ± 0.0003014
−69.11
−69.12
−69.13
−69.14
−69.15
−69.16
−69.17
−69.18
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.442
Std Dev 11.45
40
20
0
−20
−40

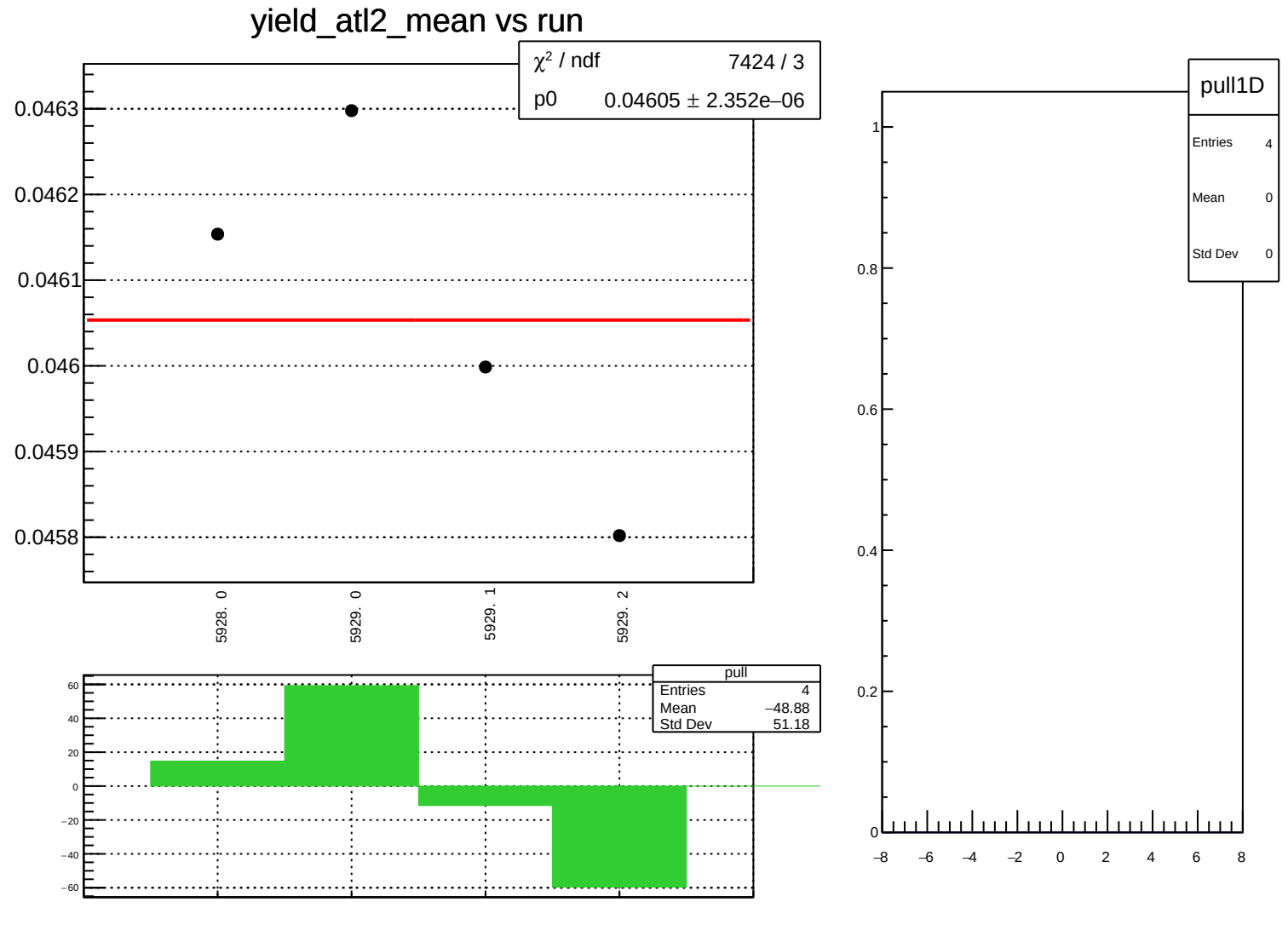

pull1D
Entries 4
Mean 4.489
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

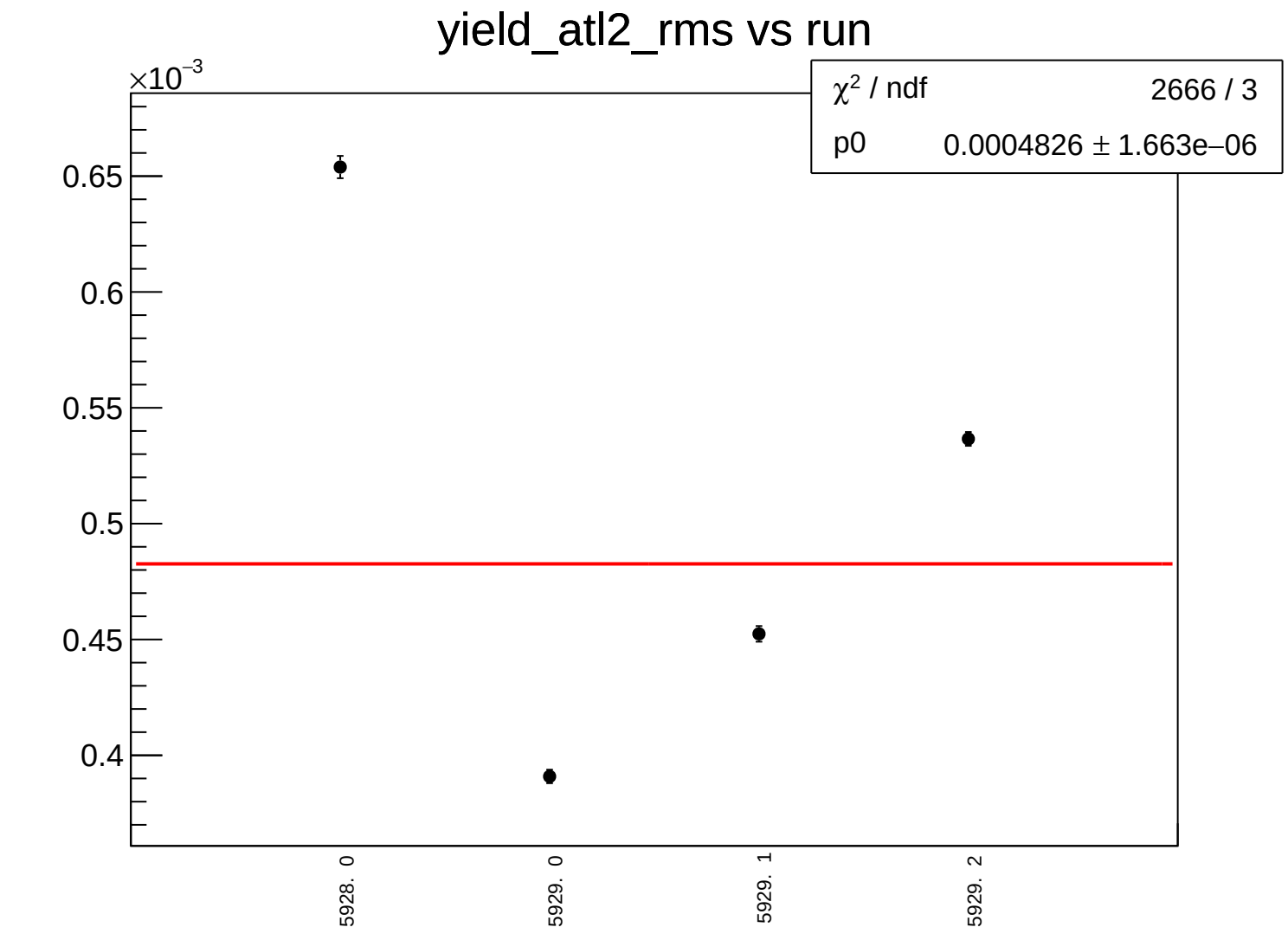

yield_dsr_rms vs run
χ² / ndf 1707 / 3
p0 0.06218 ± 0.0002131
0.07
0.065
0.06
0.055
0.05
5928. 0
5929. 0
5929. 1
5929. 2

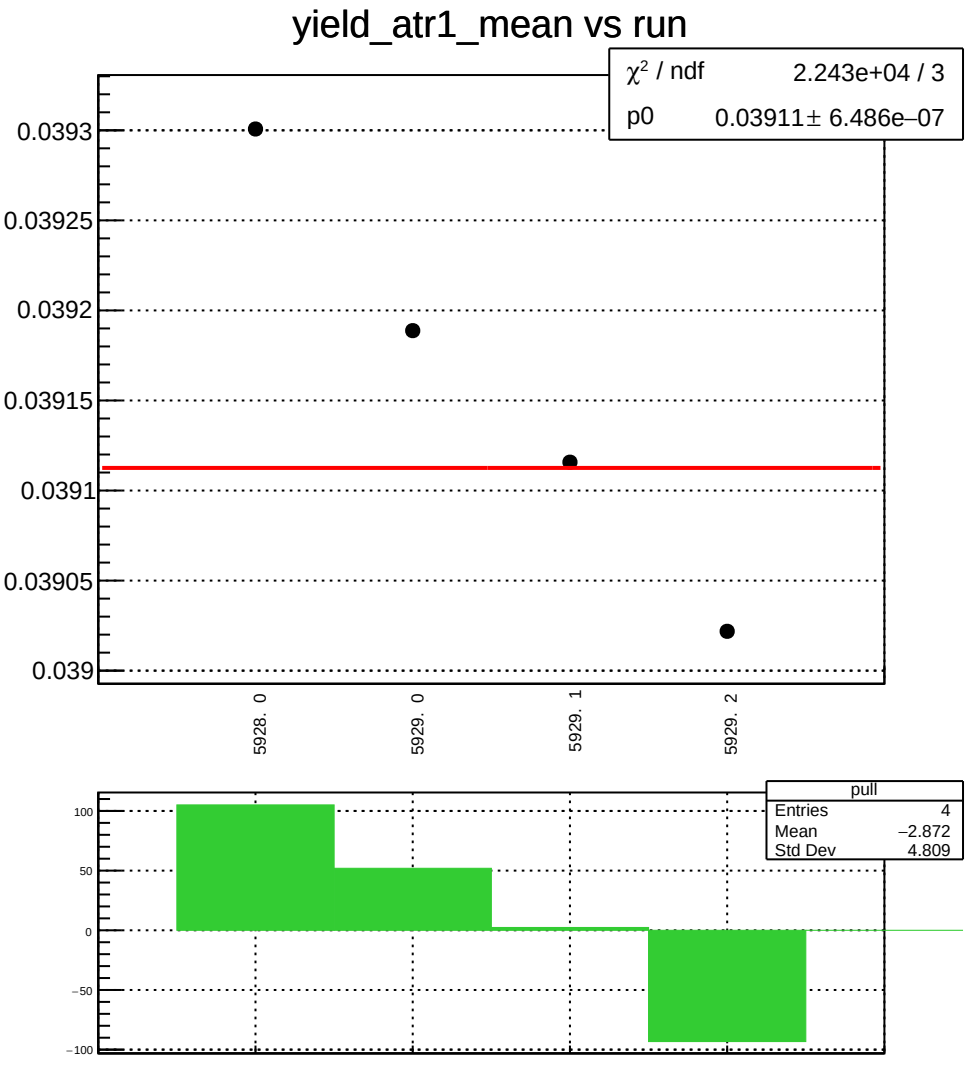

yield_atl1_mean vs run
×10⁻³
25.19
25.185
25.18
25.175
25.17
25.165
25.16
χ² / ndf 696.5 / 3
p0 0.02517 ± 4.375e−07
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −44.82
Std Dev 47.94
15
10
5
0
−5
−10
−15
−20

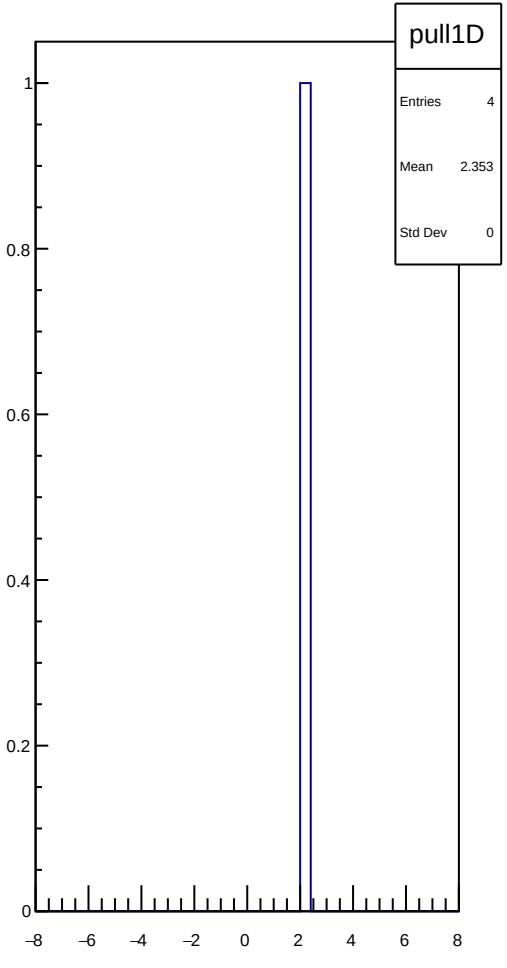

pull1D
Entries 4
Mean −3.878
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

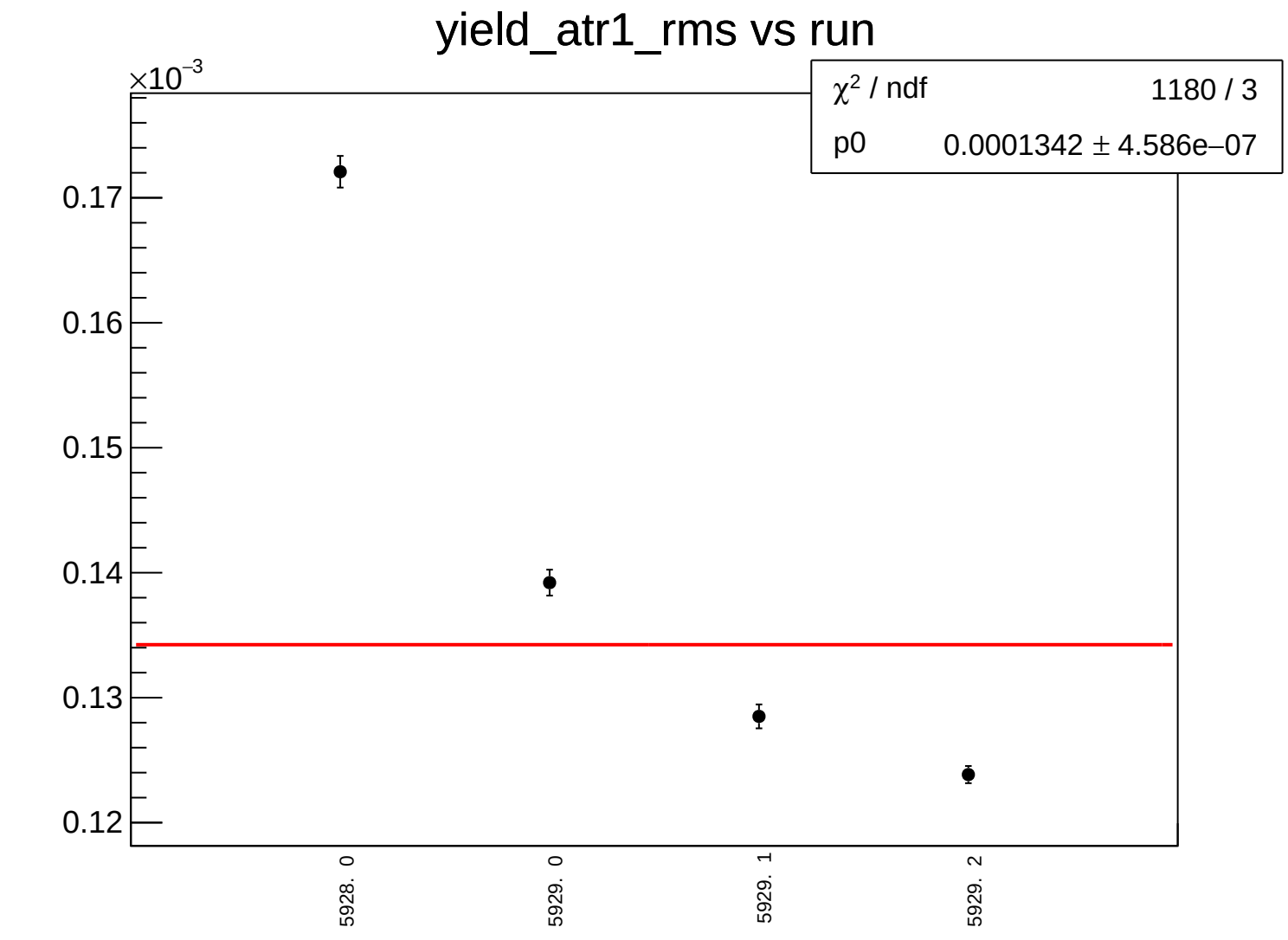

yield_atl1_rms vs run
×10⁻³
0.14
0.13
0.12
0.11
0.1
0.09
0.08
χ² / ndf 2913 / 3
p0 8.963e−05 ± 3.094e−07
5928. 0
5929. 0
5929. 1
5929. 2

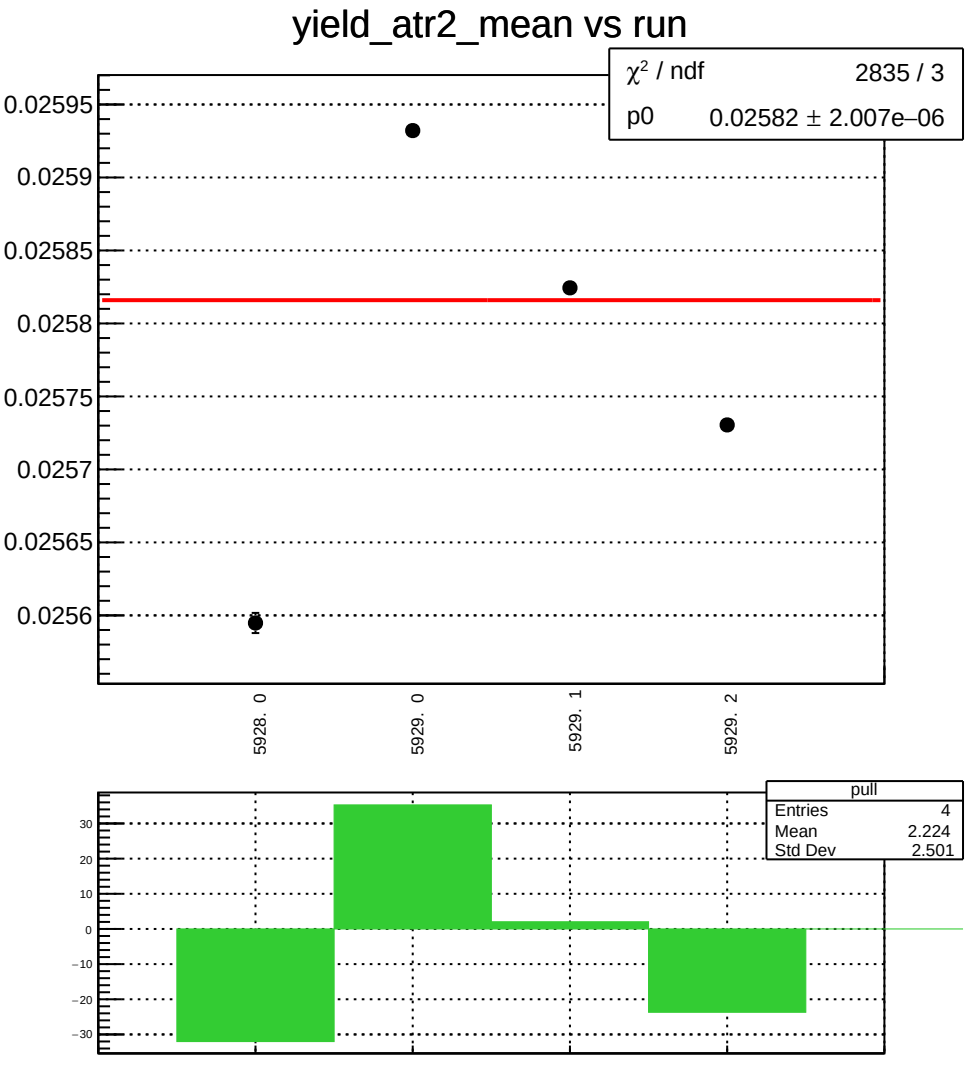

yield_atl2_mean vs run
χ² / ndf 7424 / 3
p0 0.04605 ± 2.352e−06
0.0463
0.0462
0.0461
0.046
0.0459
0.0458
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −48.88
Std Dev 51.18
60
40
20
0
−20
−40
−60
pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

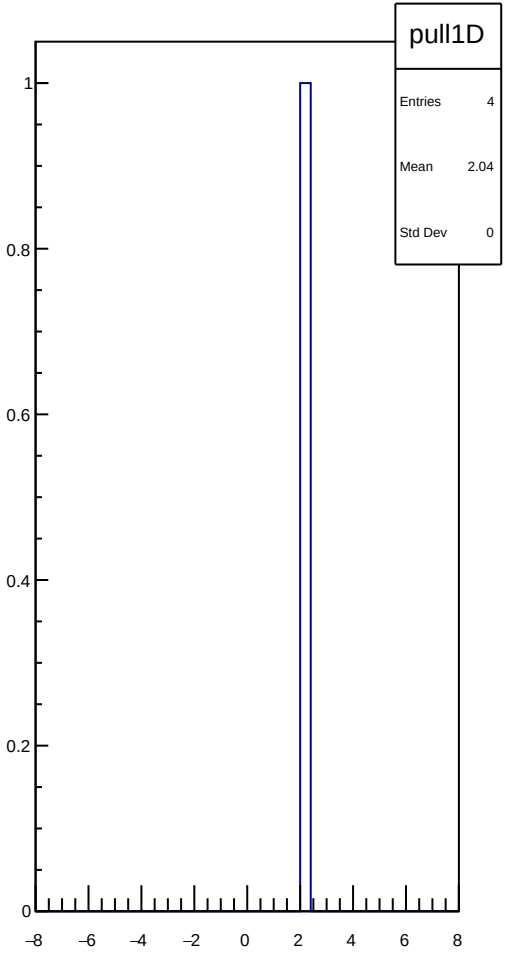

yield_atl2_rms vs run
×10⁻³
χ² / ndf 2666 / 3
p0 0.0004826 ± 1.663e−06
0.65
0.6
0.55
0.5
0.45
0.4
5928. 0
5929. 0
5929. 1
5929. 2

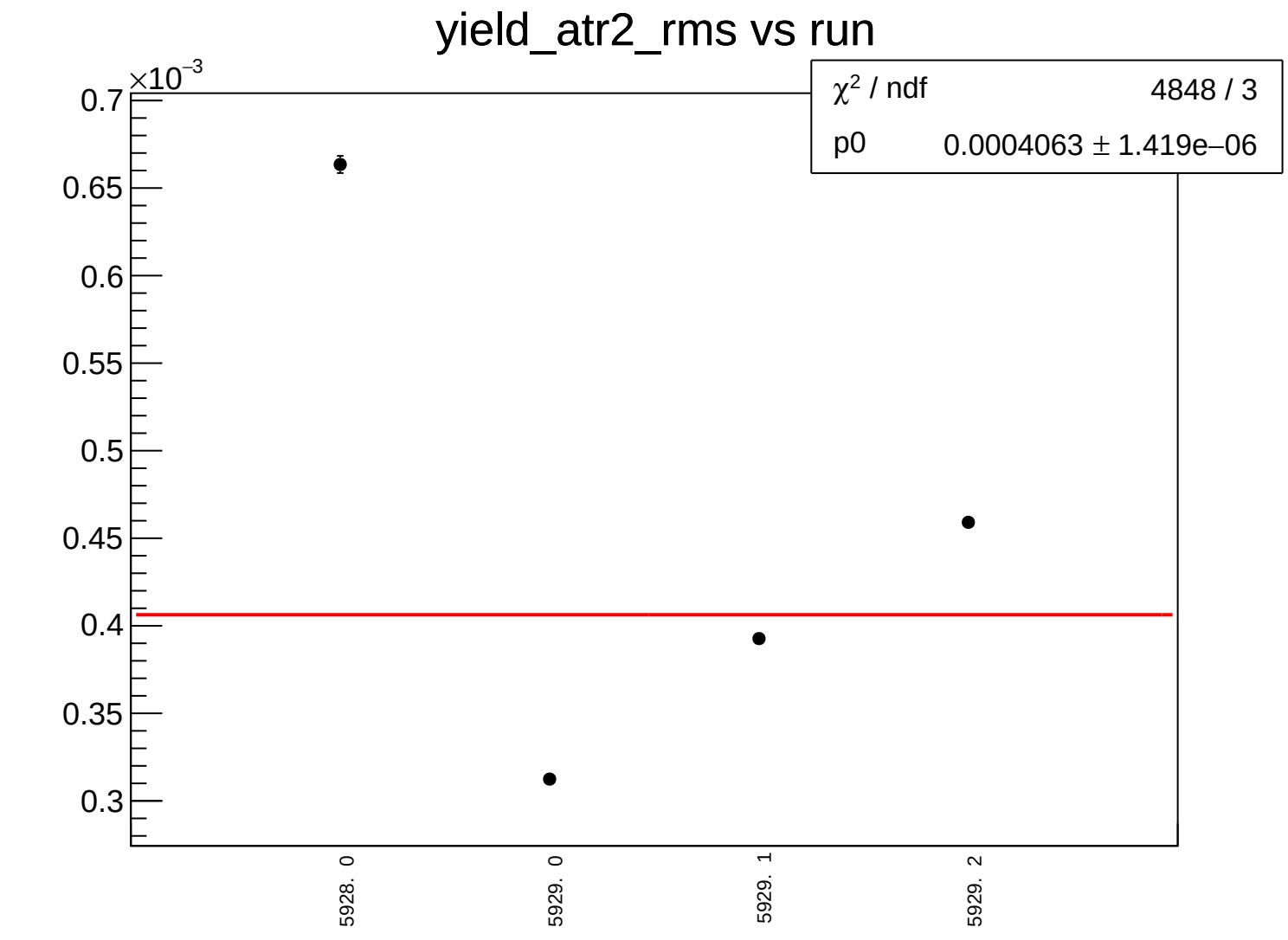

yield_atr1_mean vs run
χ² / ndf 2.243e+04 / 3
p0 0.03911± 6.486e–07
0.0393
0.03925
0.0392
0.03915
0.0391
0.03905
0.039
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean –2.872
Std Dev 4.809
100
50
0
–50
–100

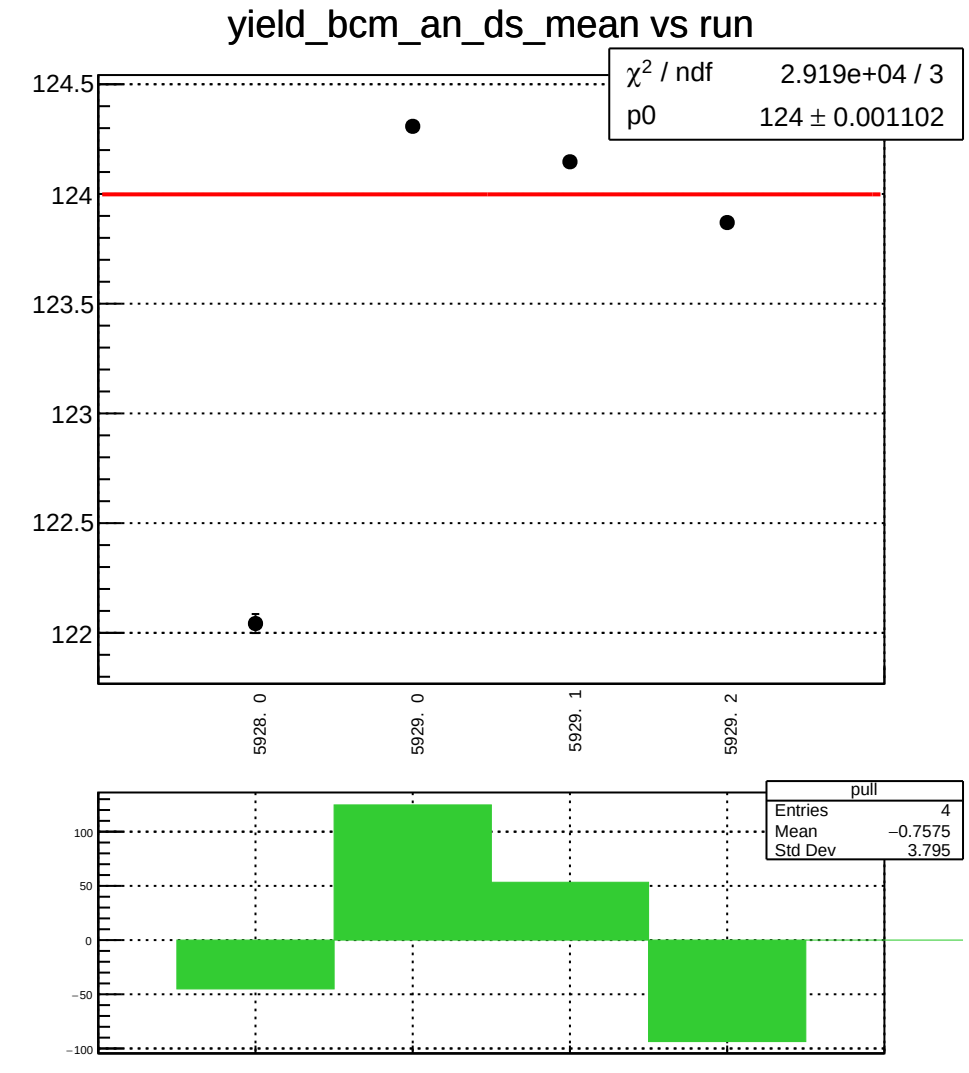

pull1D
Entries 4
Mean 2.353
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

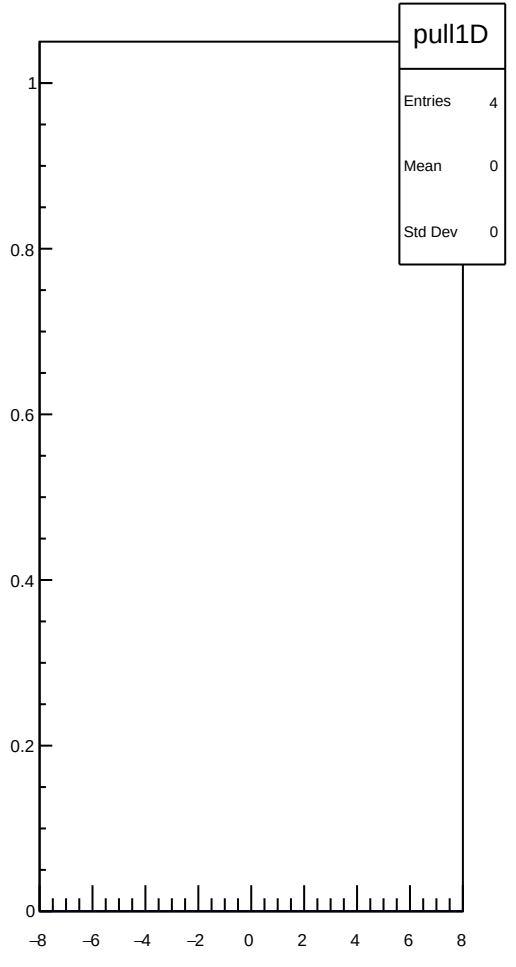

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1180 / 3
p0 0.0001342 ± 4.586e−07
0.17
0.16
0.15
0.14
0.13
0.12
5928. 0
5929. 0
5929. 1
5929. 2

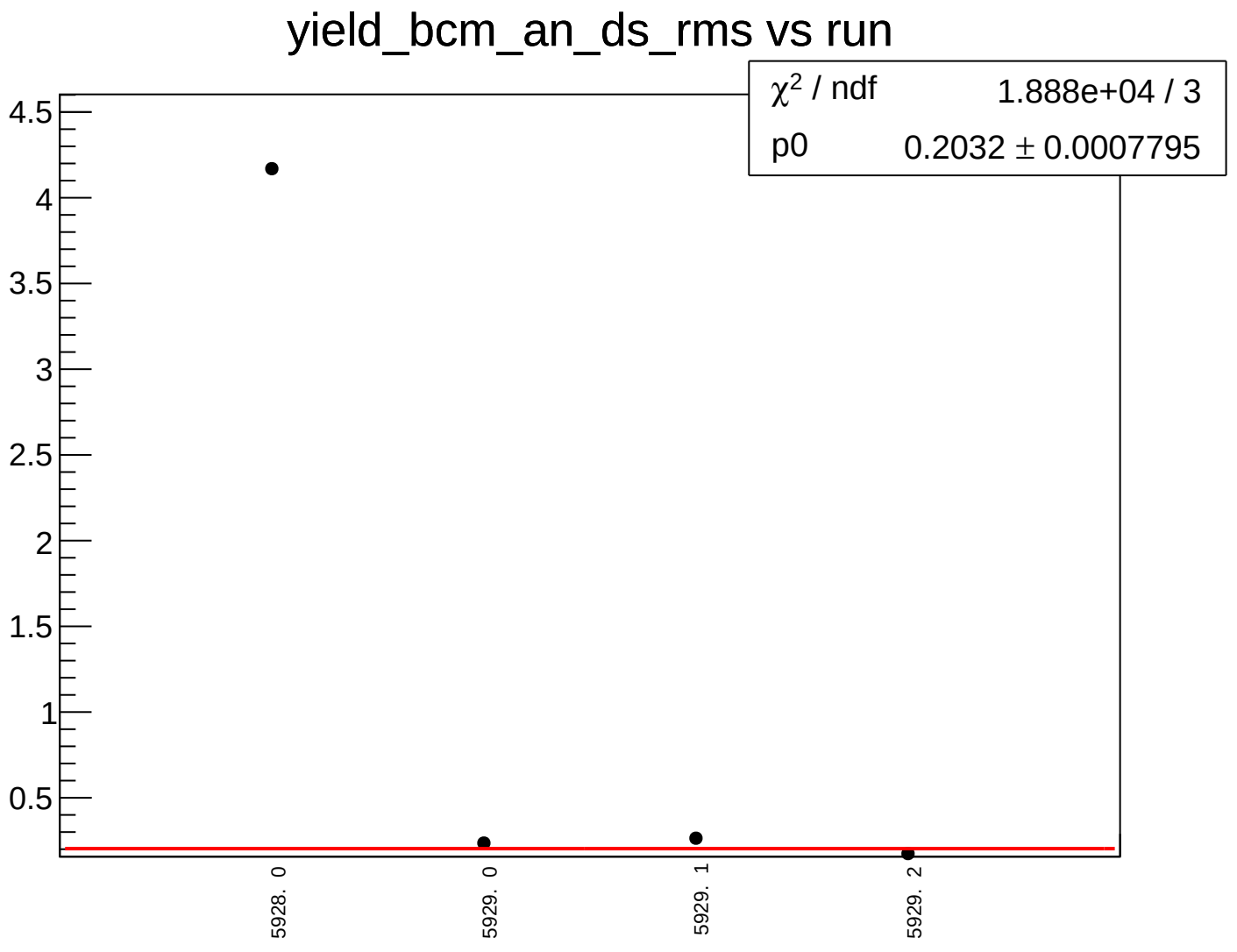

yield_atr2_mean vs run
χ² / ndf 2835 / 3
p0 0.02582 ± 2.007e−06
0.02595
0.0259
0.02585
0.0258
0.02575
0.0257
0.02565
0.0256
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.224
Std Dev 2.501
30
20
10
0
−10
−20
−30

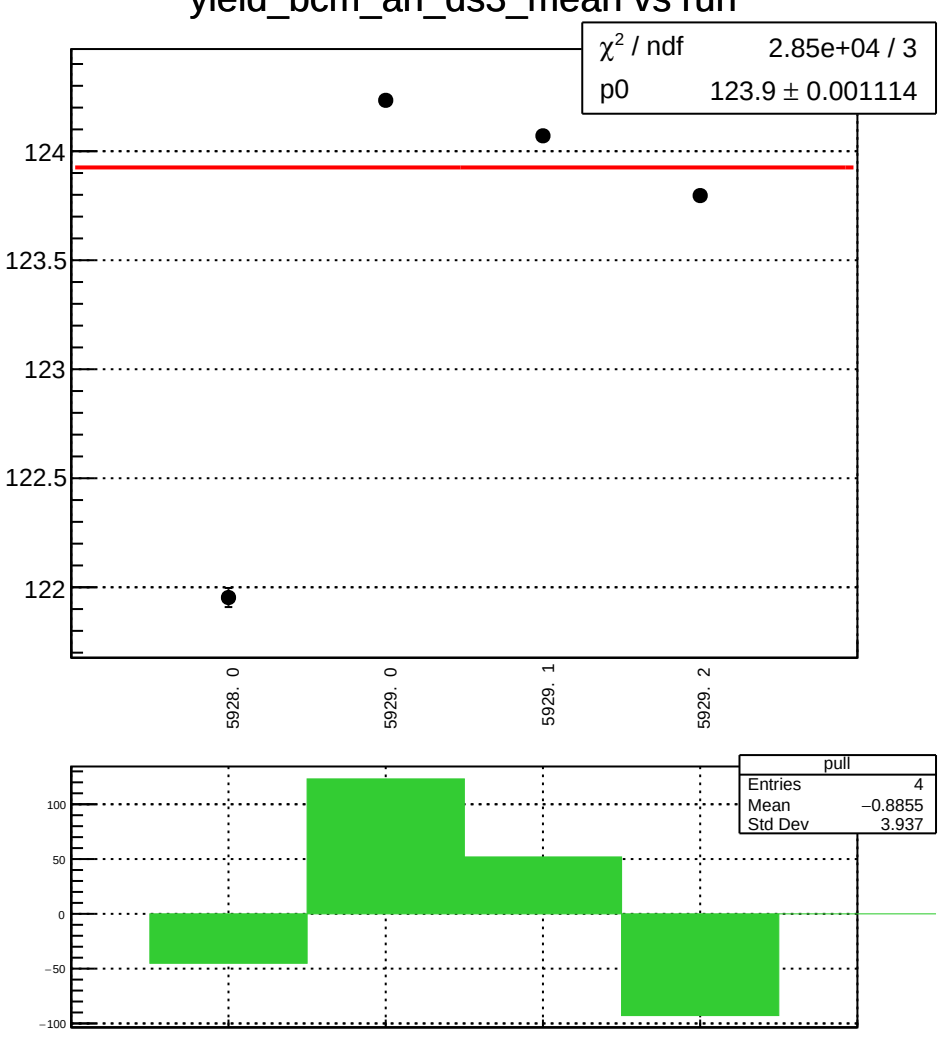

pull1D
Entries 4
Mean 2.04
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

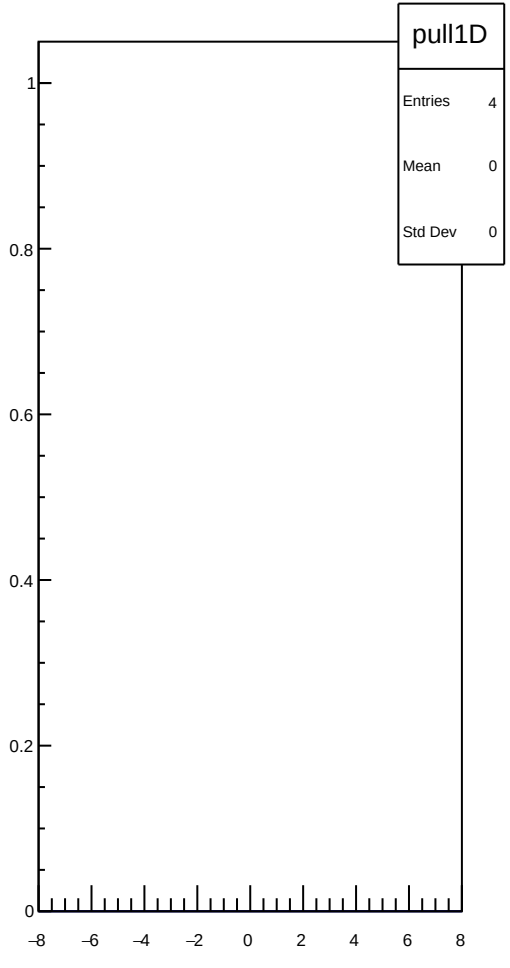

yield_atr2_rms vs run
×10⁻³
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
χ² / ndf 4848 / 3
p0 0.0004063 ± 1.419e−06
5928. 0
5929. 0
5929. 1
5929. 2

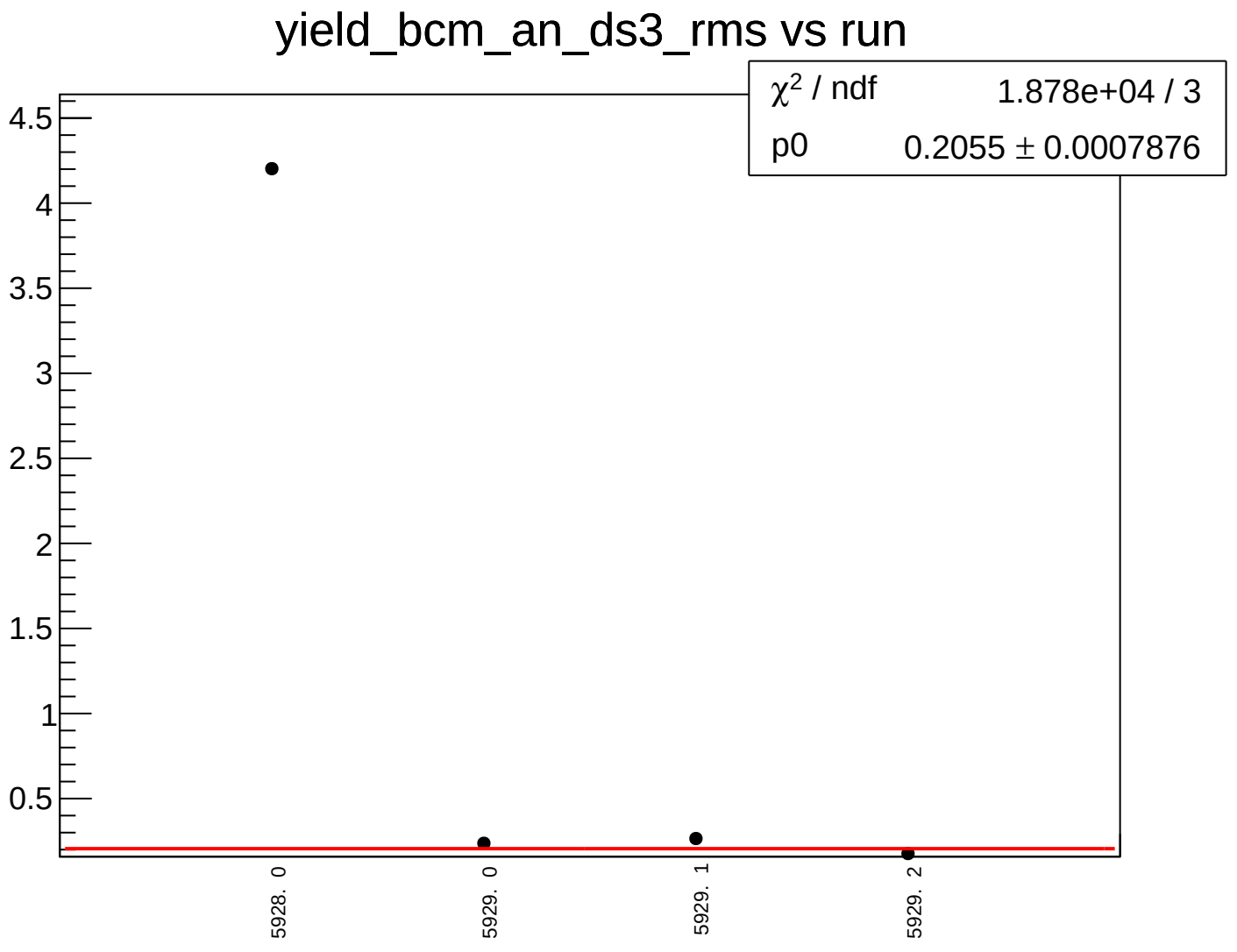

yield_bcm_an_ds_mean vs run
χ² / ndf 2.919e+04 / 3
p0 124 ± 0.001102
124.5
124
123.5
123
122.5
122
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.7575
Std Dev 3.795
100
50
0
−50
−100

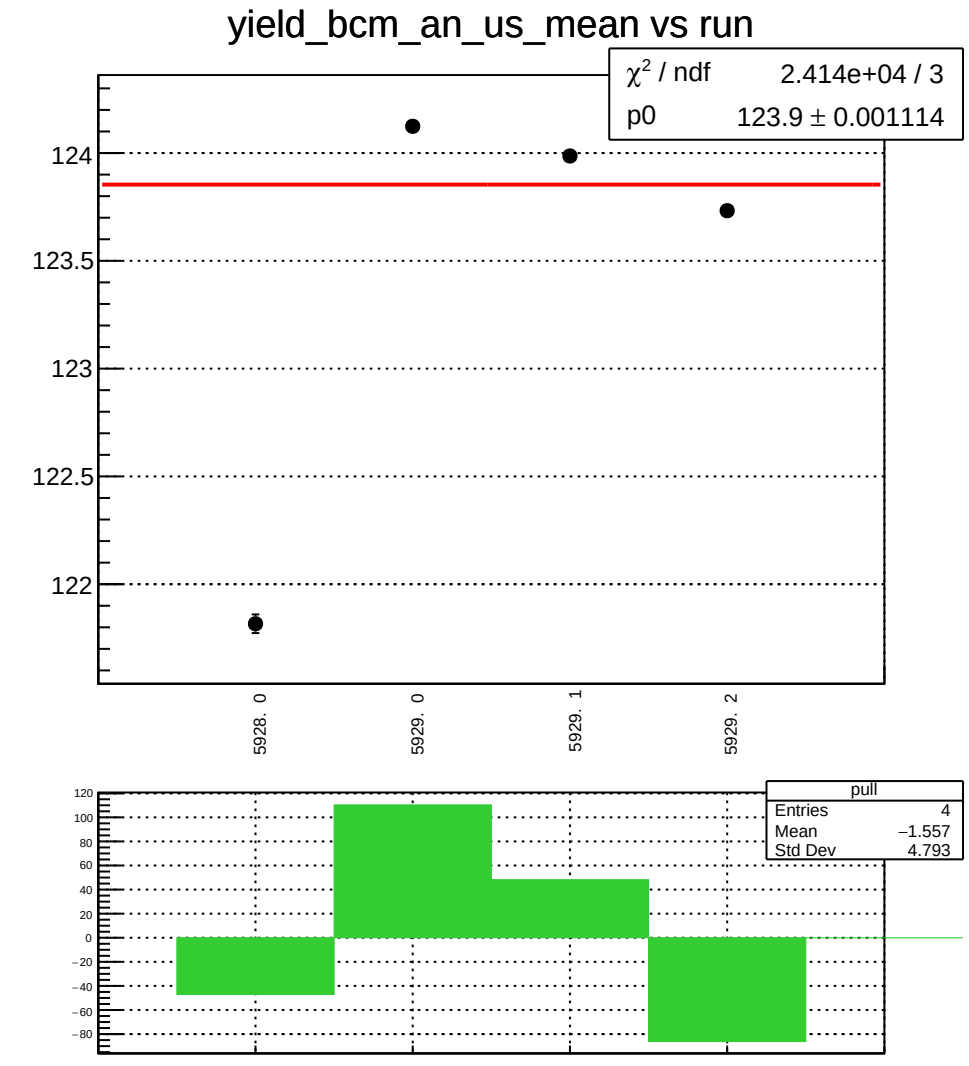

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

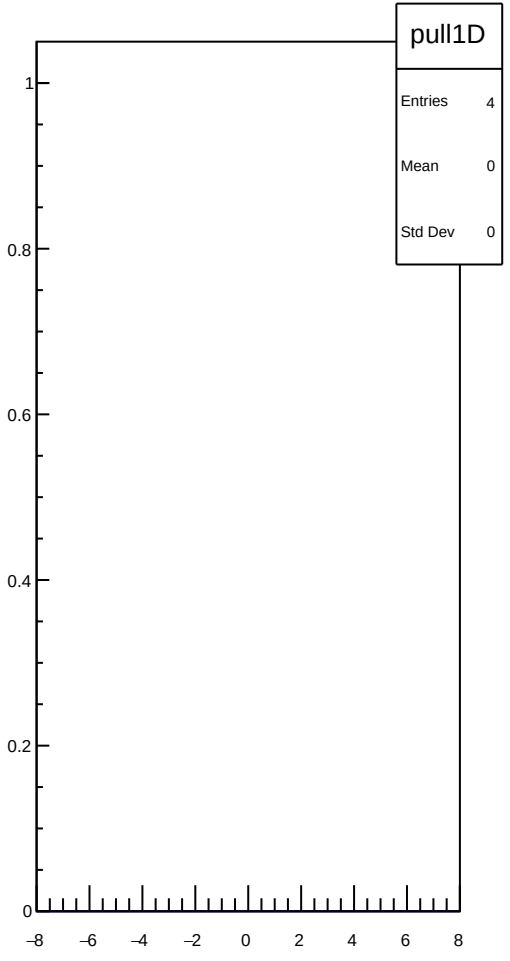

yield_bcm_an_ds_rms vs run
χ² / ndf 1.888e+04 / 3
p0 0.2032 ± 0.0007795
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

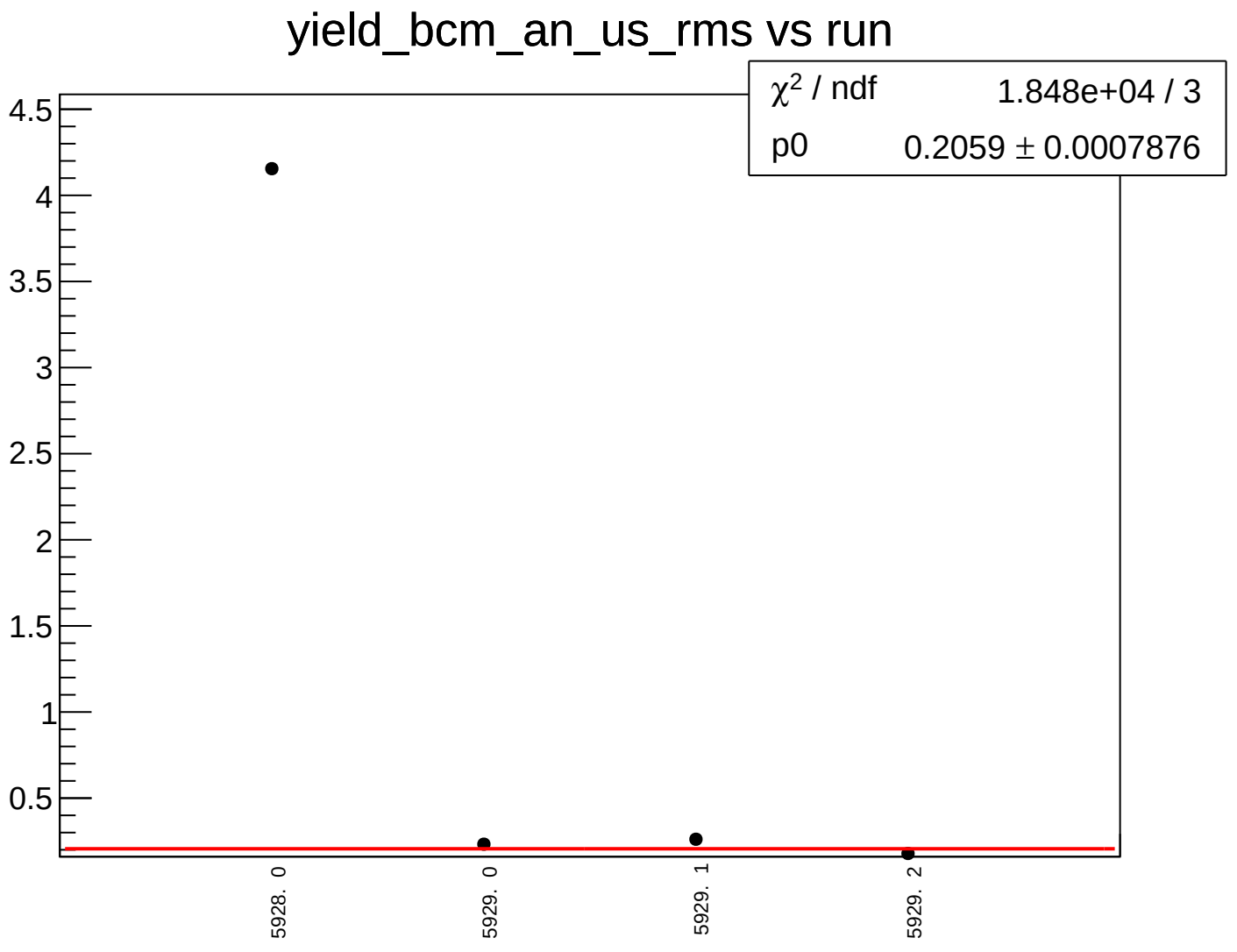

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.85e+04 / 3
p0 123.9 ± 0.001114
124
123.5
123
122.5
122
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.8855
Std Dev 3.937
100
50
0
−50
−100

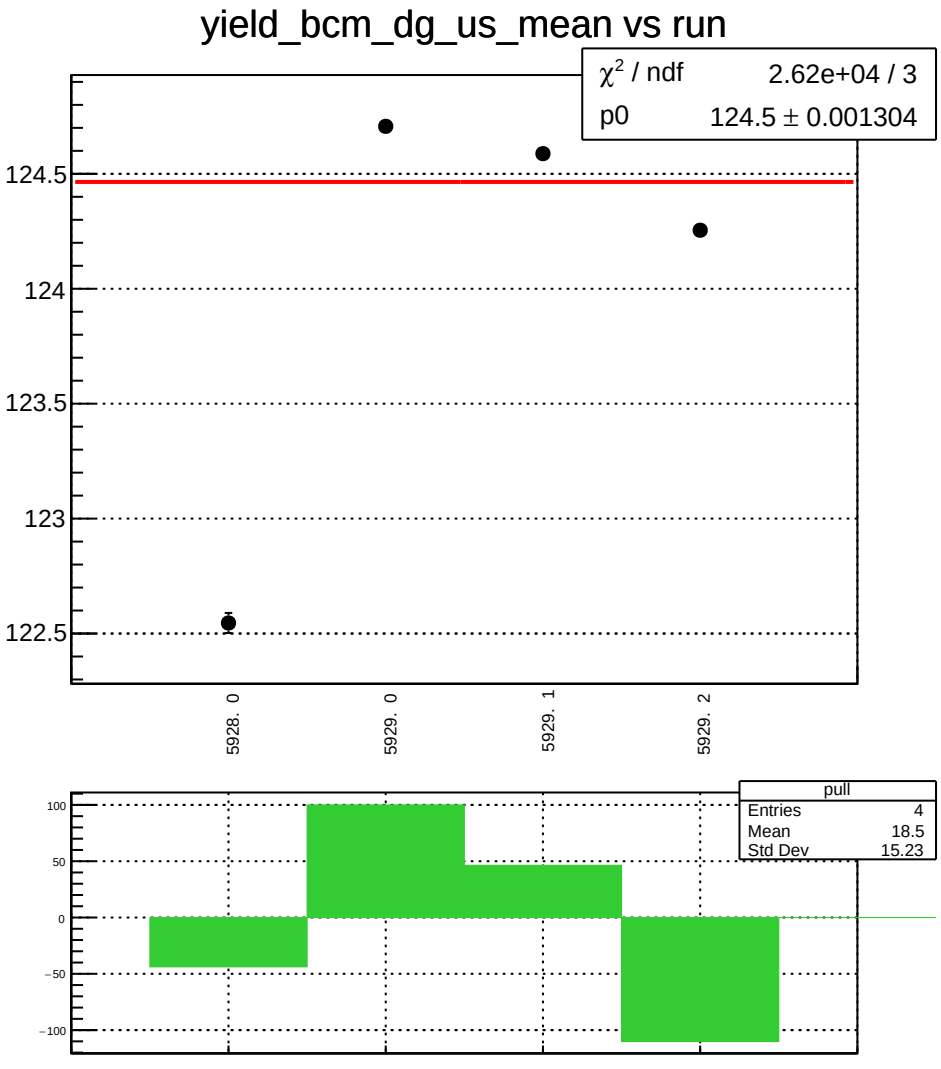

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

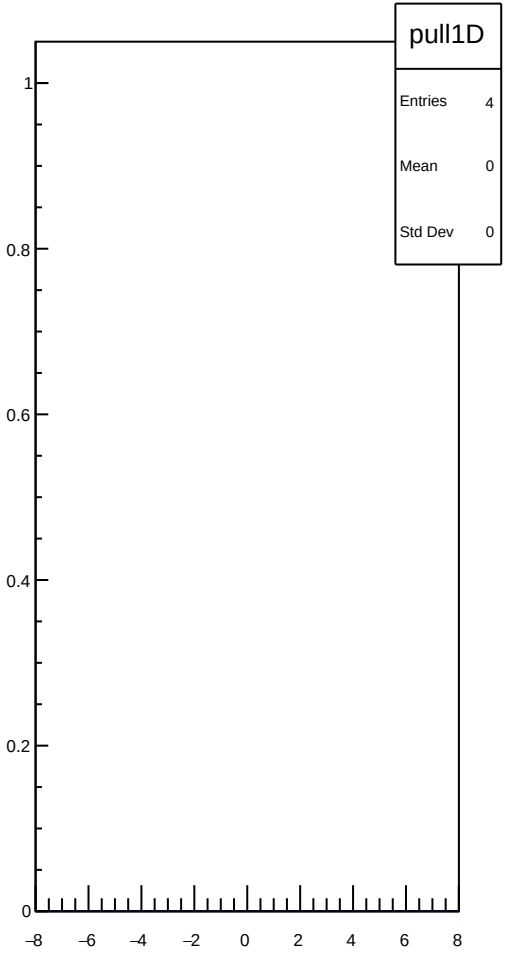

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.878e+04 / 3
p0 0.2055 ± 0.0007876
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

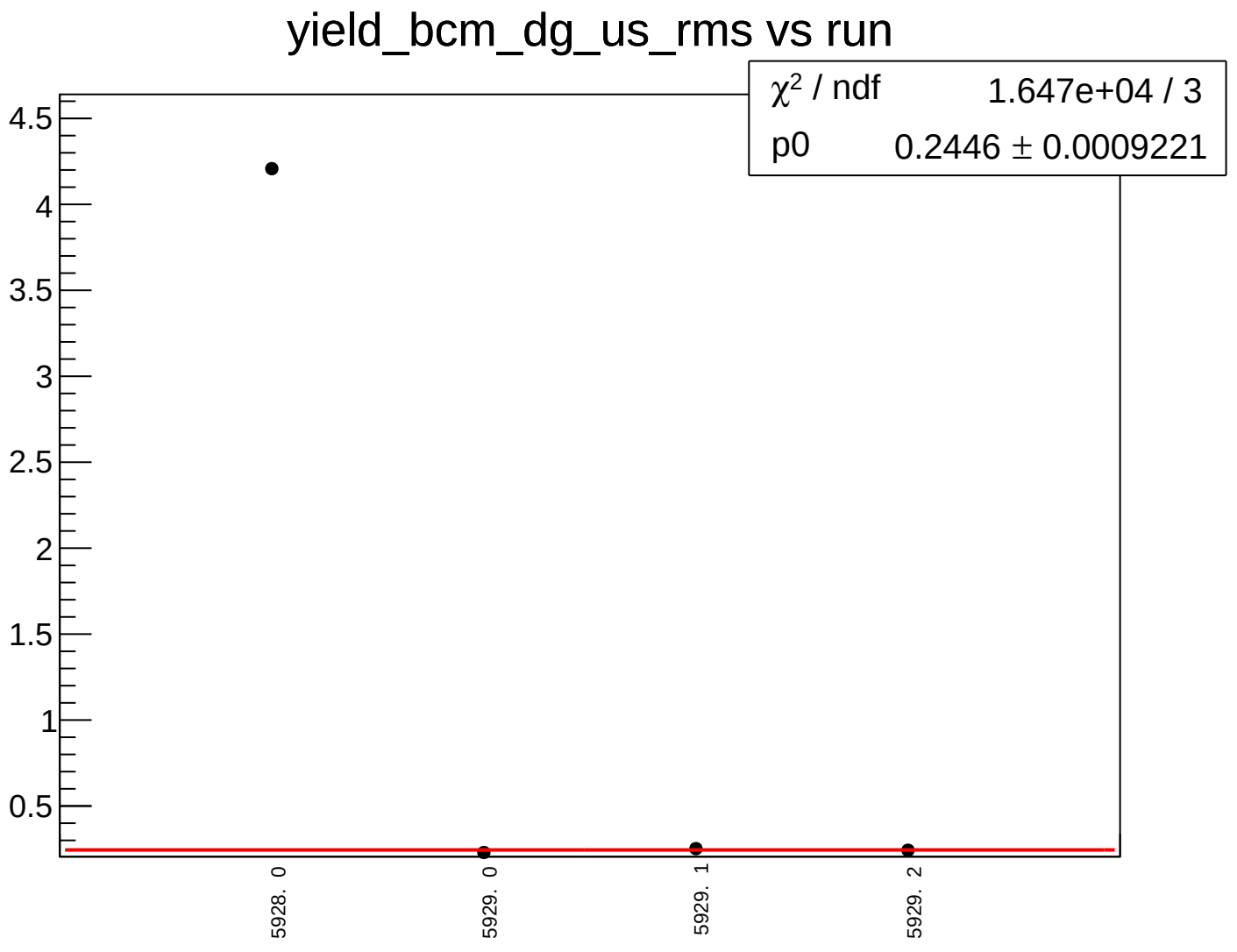

yield_bcm_an_us_mean vs run
χ² / ndf 2.414e+04 / 3
p0 123.9 ± 0.001114
124
123.5
123
122.5
122
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.557
Std Dev 4.793
120
100
80
60
40
20
0
−20
−40
−60
−80

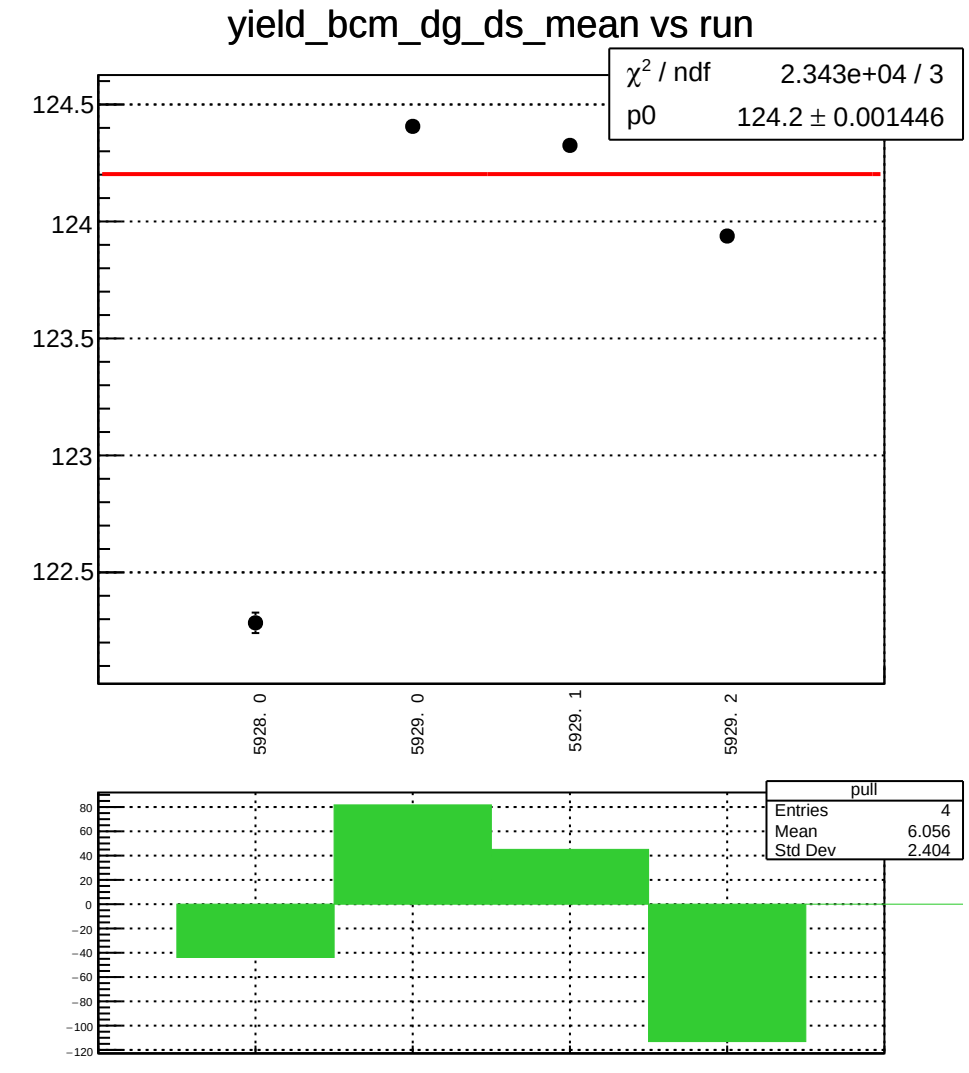

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

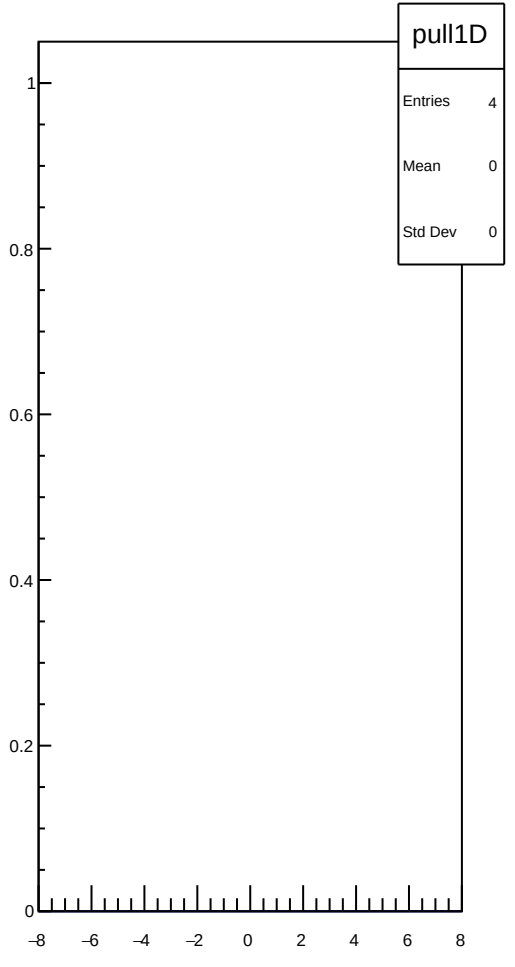

yield_bcm_an_us_rms vs run
χ2 / ndf 1.848e+04 / 3
p0 0.2059 ± 0.0007876
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

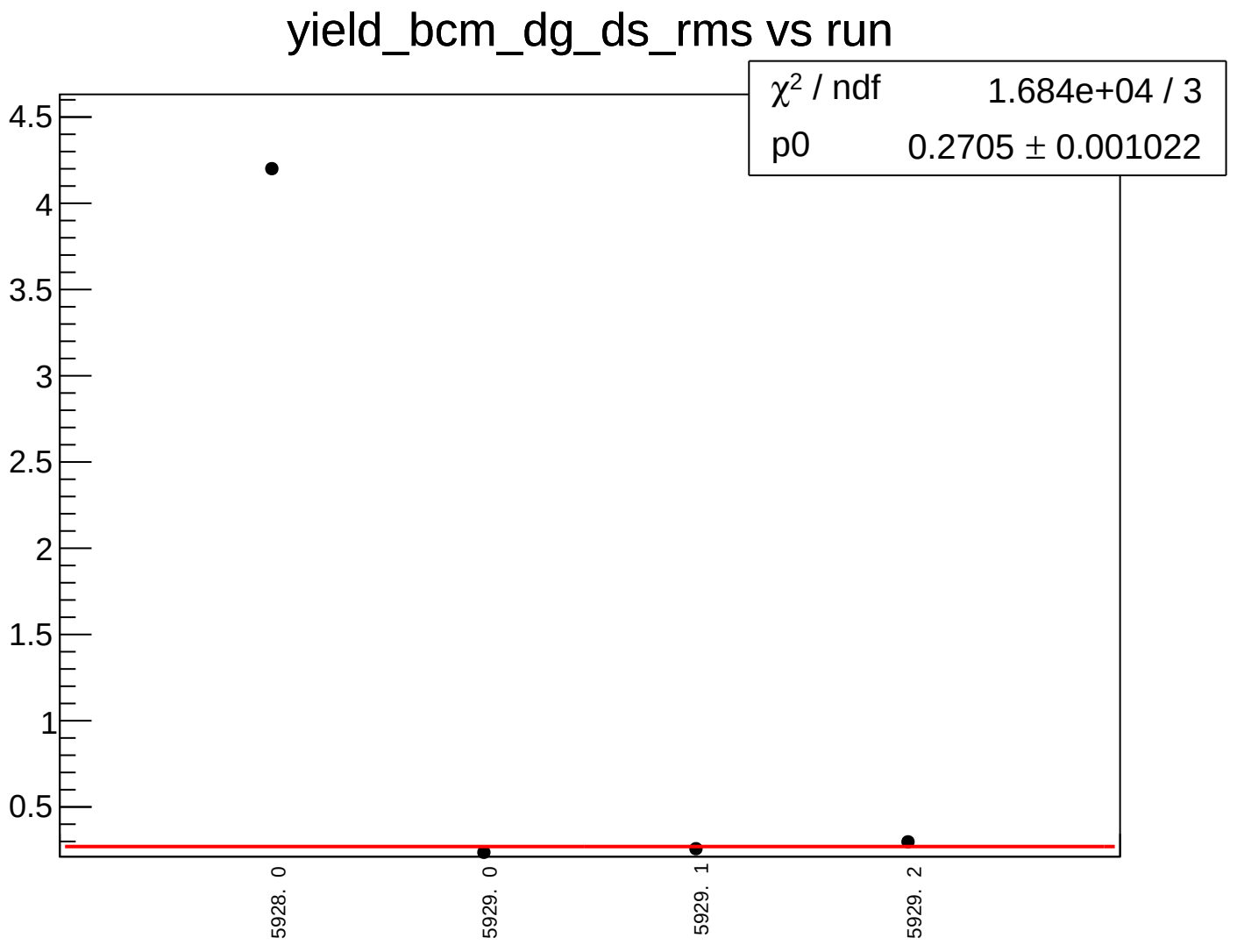

yield_bcm_dg_us_mean vs run
χ² / ndf 2.62e+04 / 3
p0 124.5 ± 0.001304
124.5
124
123.5
123
122.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 18.5
Std Dev 15.23
100
50
0
−50
−100

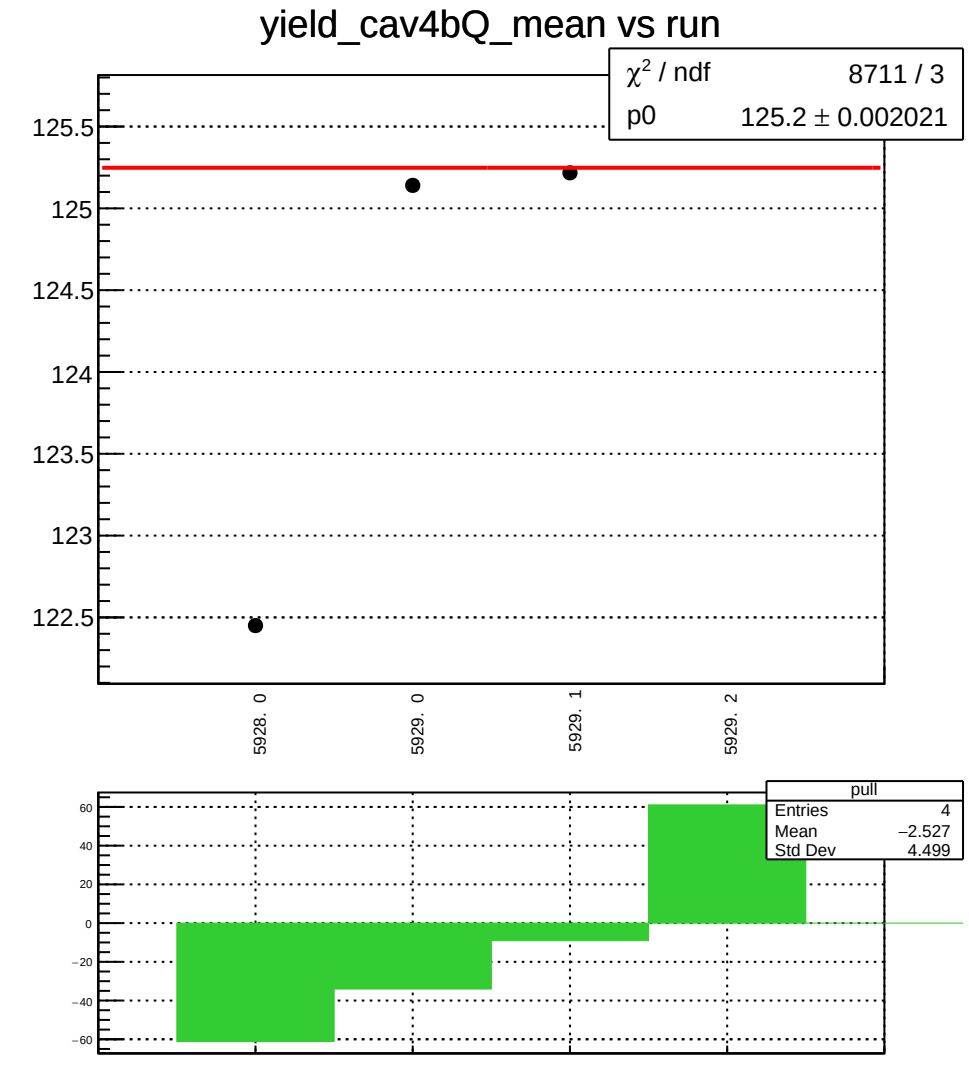

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

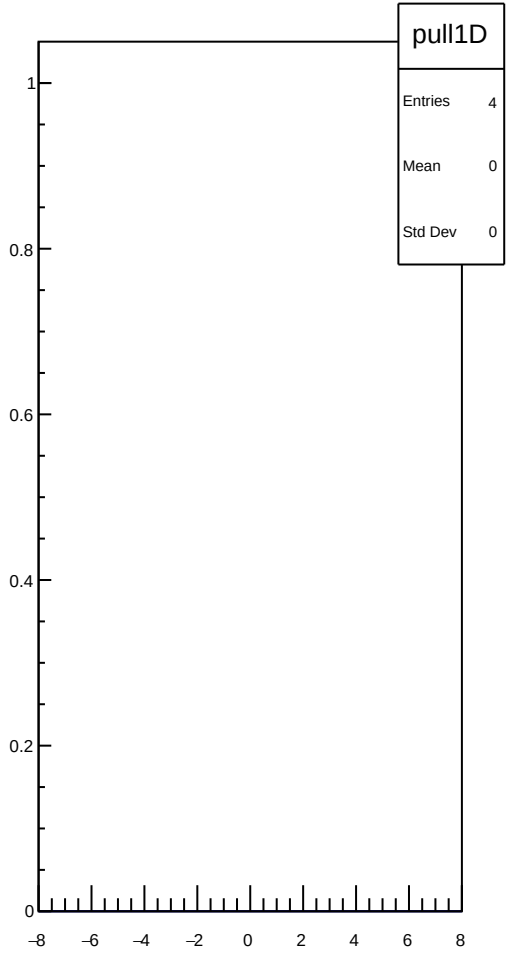

yield_bcm_dg_us_rms vs run
χ² / ndf 1.647e+04 / 3
p0 0.2446 ± 0.0009221
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

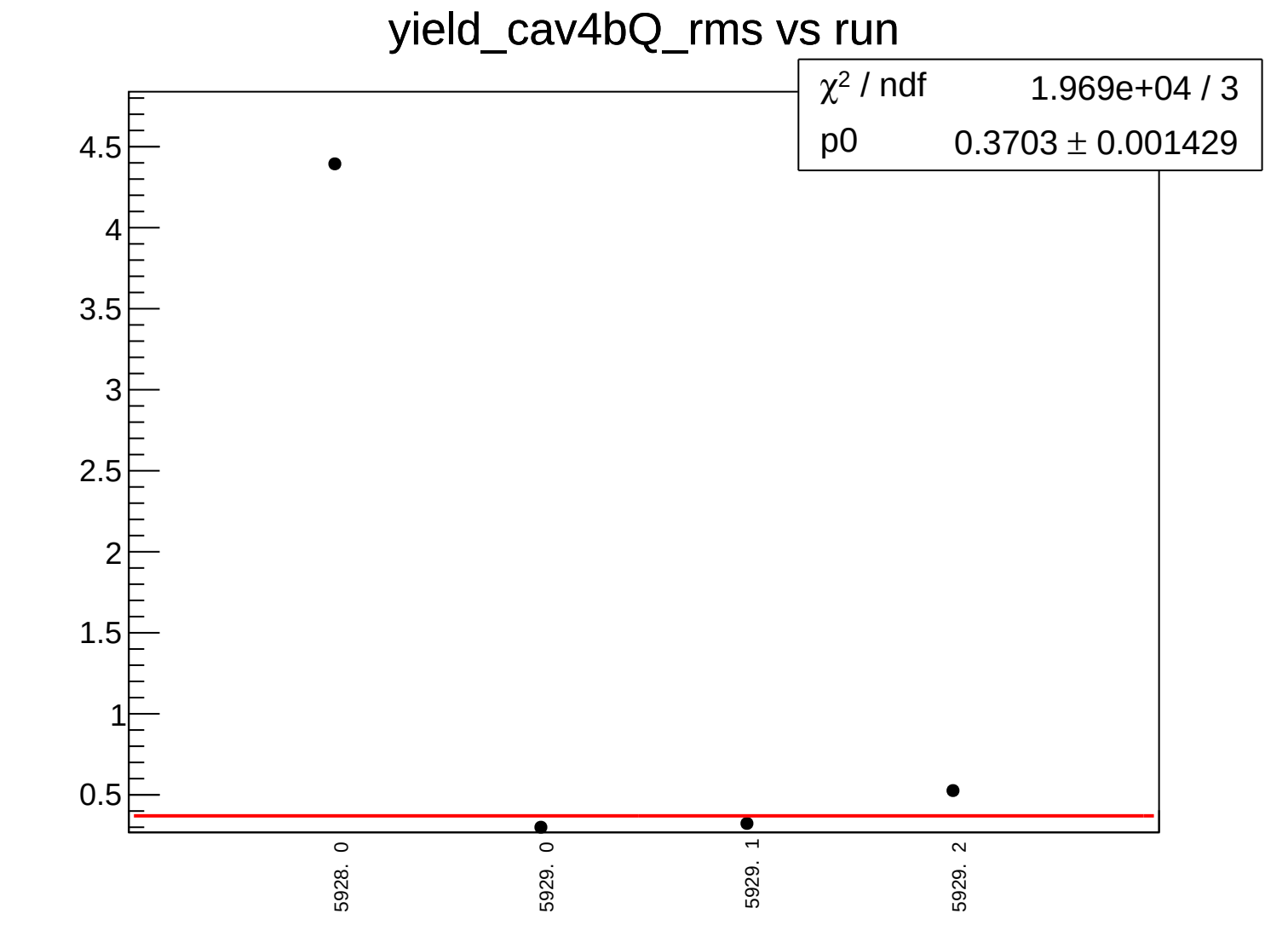

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.343e+04 / 3
p0 124.2 ± 0.001446
124.5
124
123.5
123
122.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.056
Std Dev 2.404
80
60
40
20
0
−20
−40
−60
−80
−100
−120

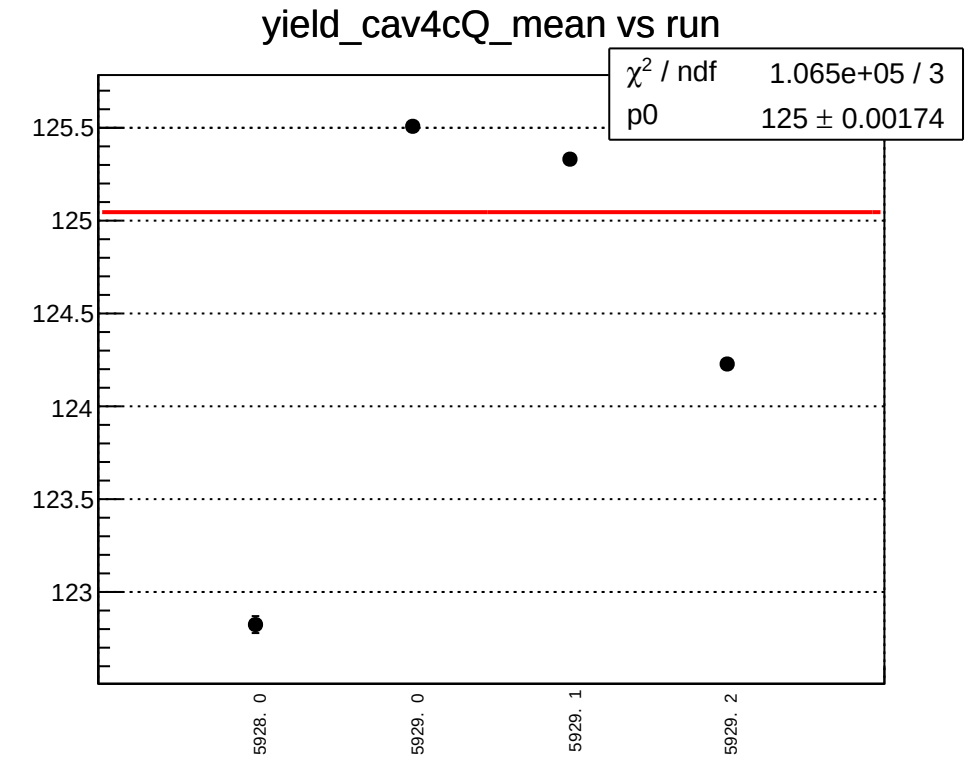

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

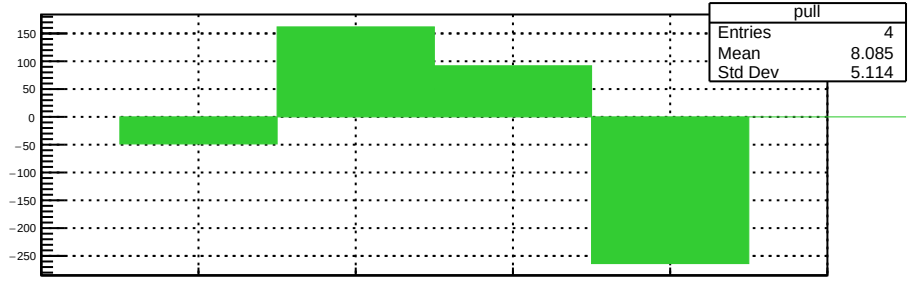

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.684e+04 / 3
p0 0.2705 ± 0.001022
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

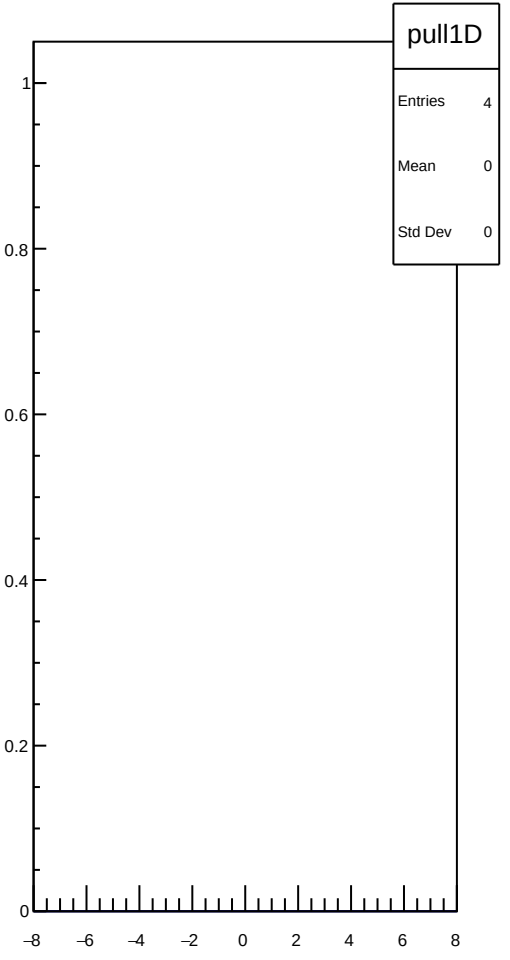

yield_cav4bQ_mean vs run
χ² / ndf 8711 / 3
p0 125.2 ± 0.002021
125.5
125
124.5
124
123.5
123
122.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.527
Std Dev 4.499
60
40
20
0
−20
−40
−60

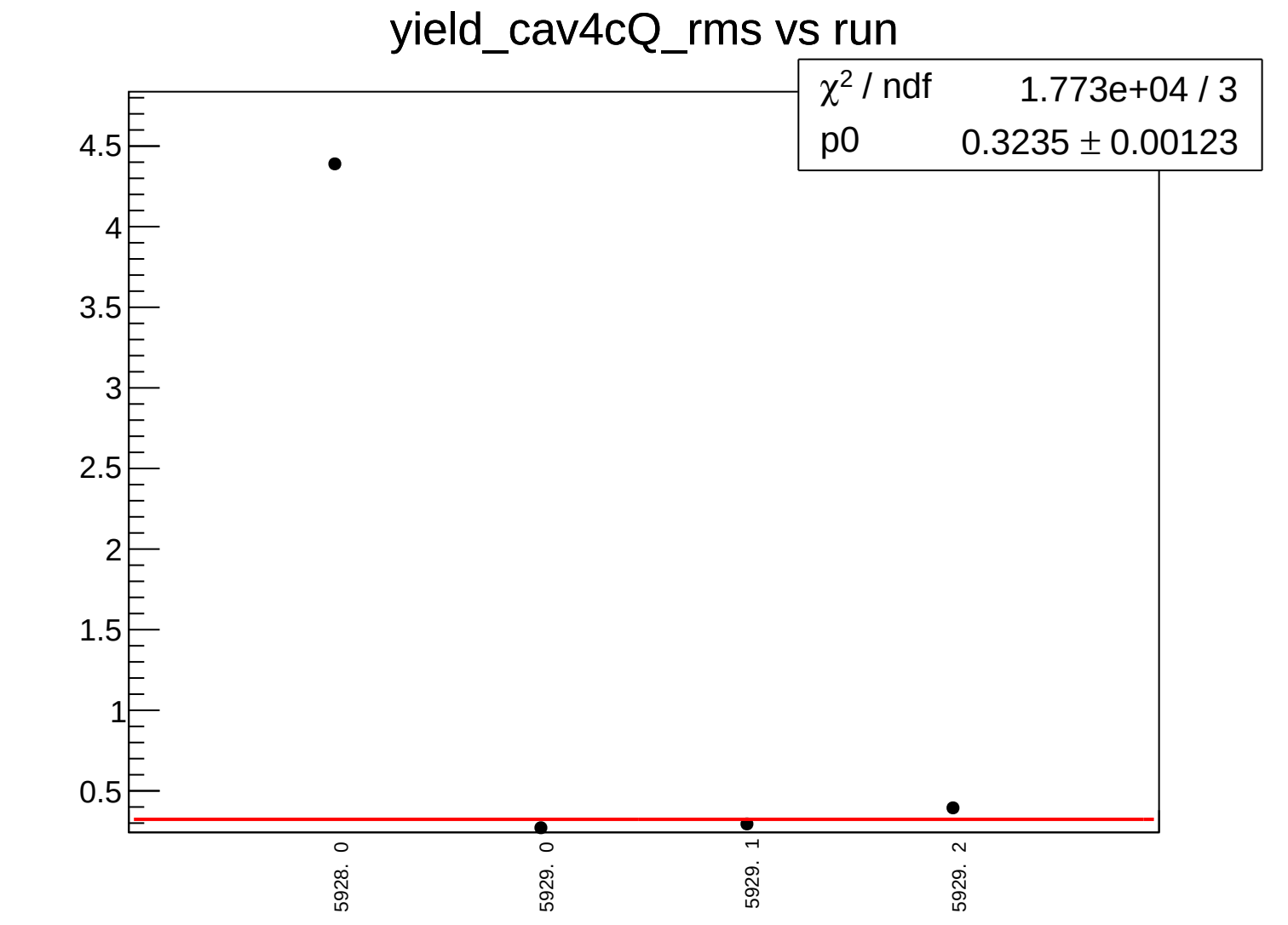

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

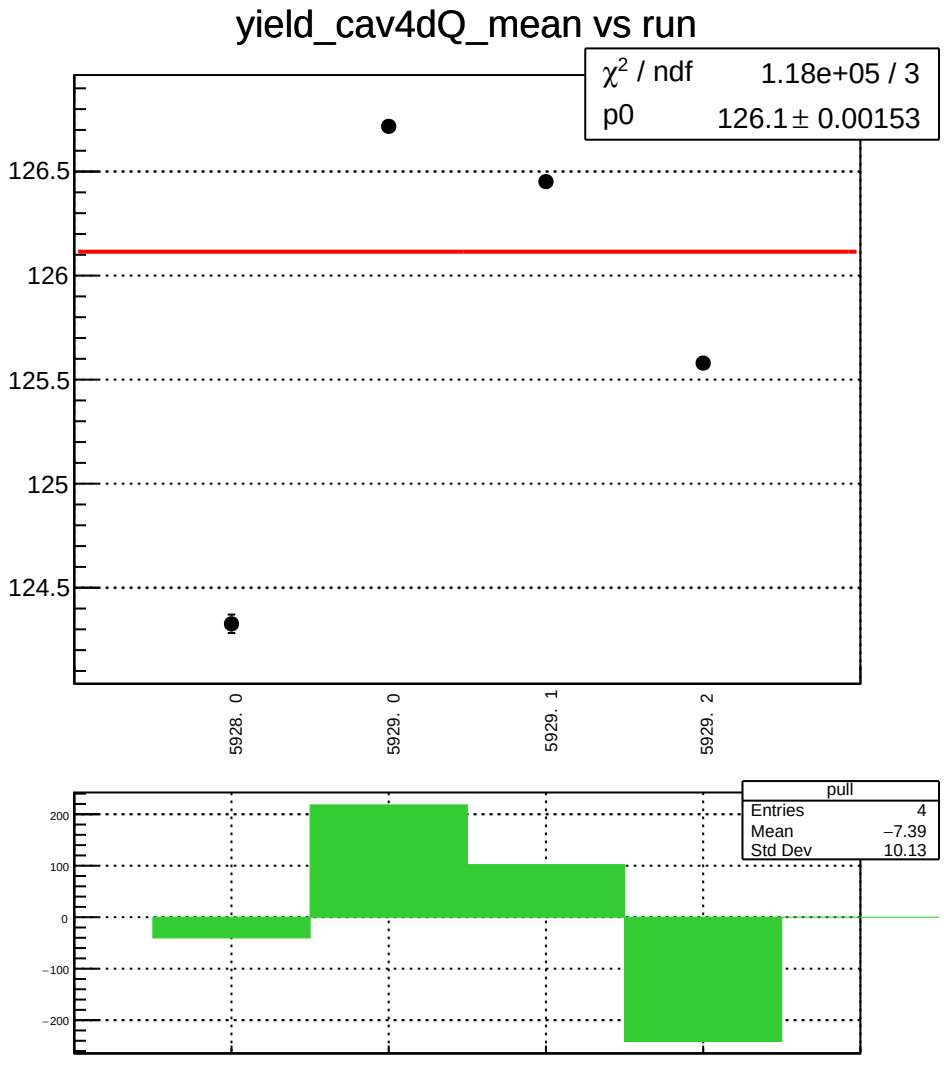

yield_cav4bQ_rms vs run
χ² / ndf 1.969e+04 / 3
p0 0.3703 ± 0.001429
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

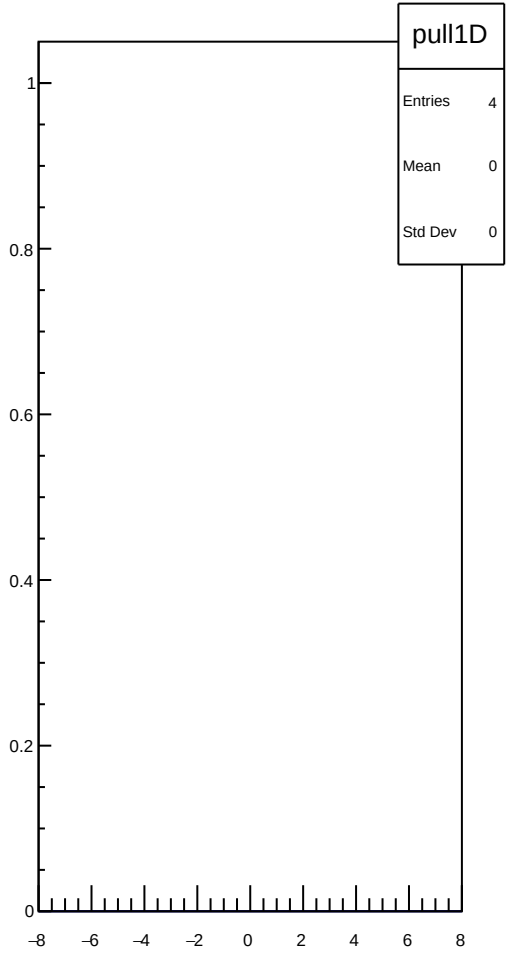

yield_cav4cQ_mean vs run
χ² / ndf 1.065e+05 / 3
p0 125 ± 0.00174
125.5
125
124.5
124
123.5
123
5928. 0
5929. 0
5929. 1
5929. 2

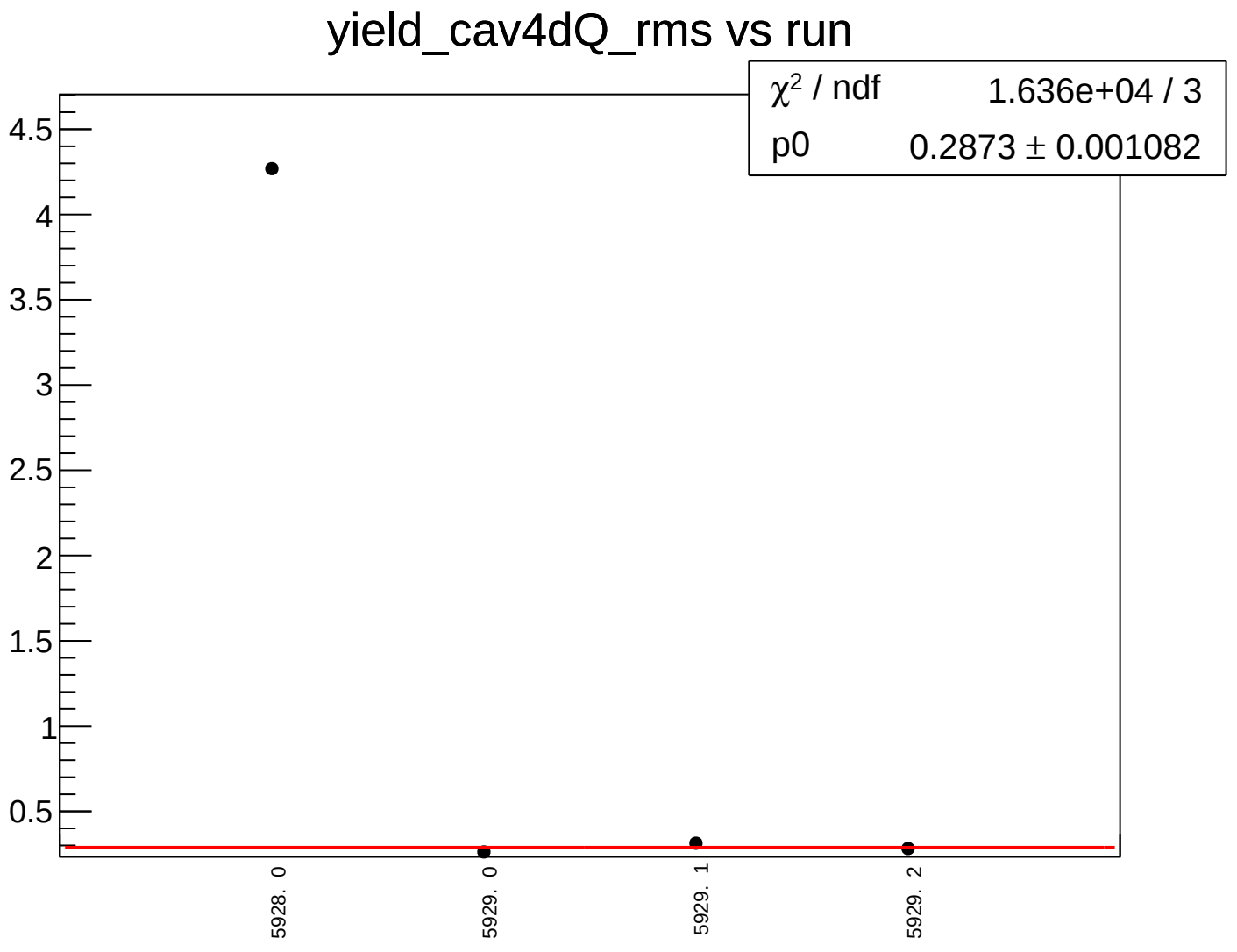

pull
Entries 4
Mean 8.085
Std Dev 5.114
150
100
50
0
−50
−100
−150
−200
−250

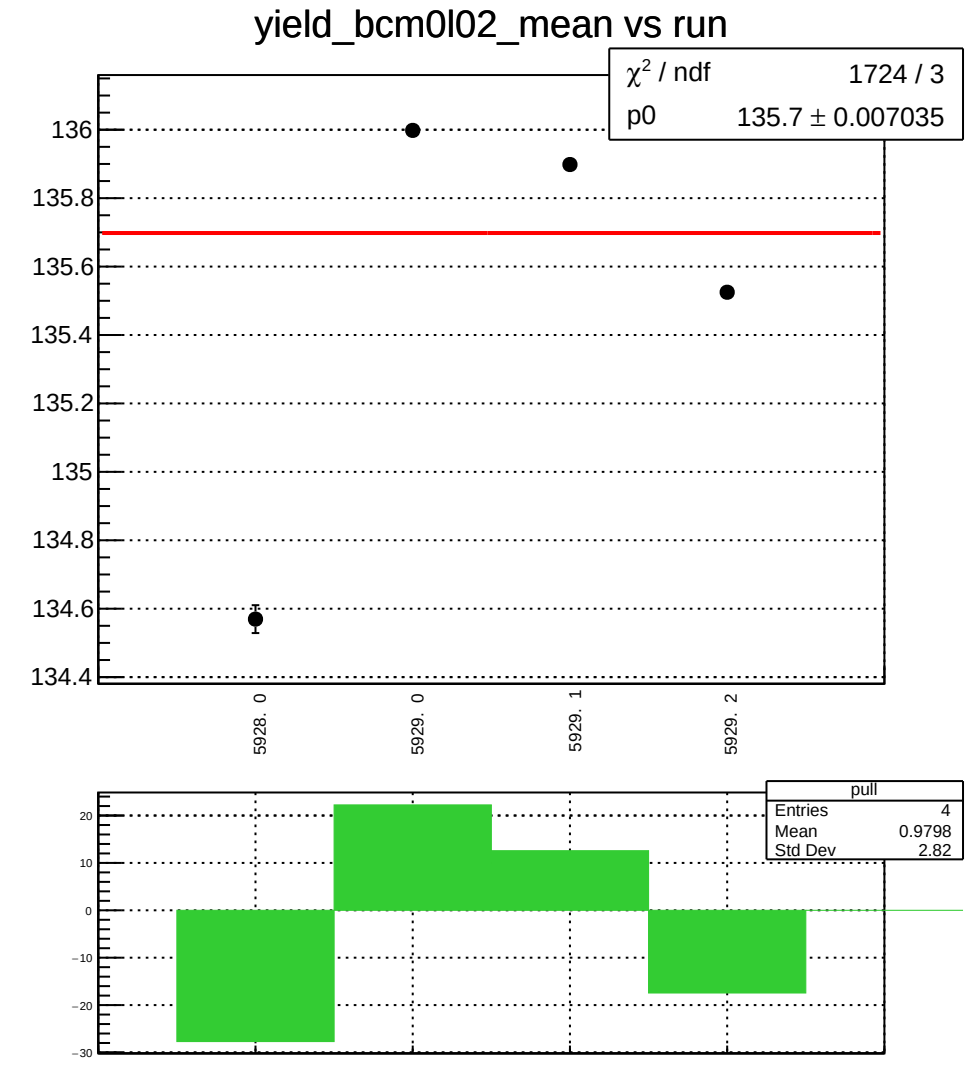

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

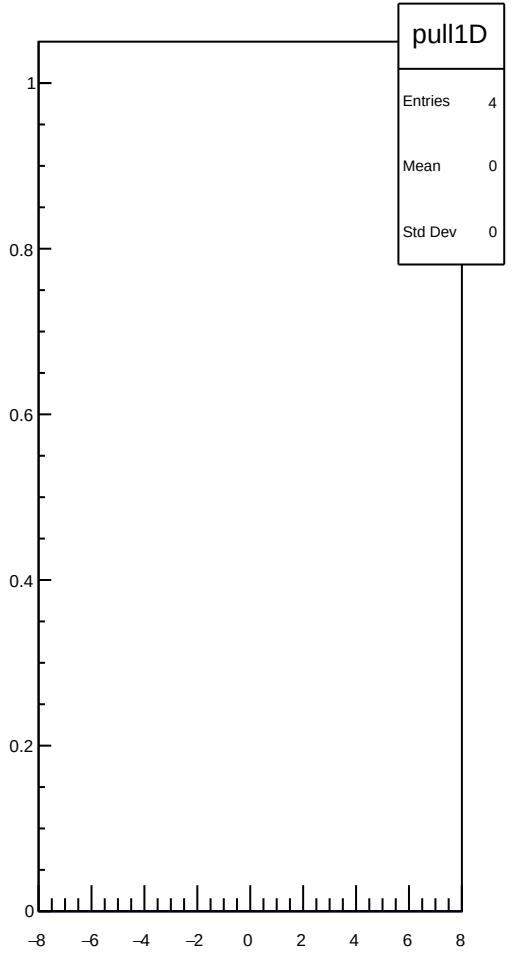

yield_cav4cQ_rms vs run
χ² / ndf 1.773e+04 / 3
p0 0.3235 ± 0.00123
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

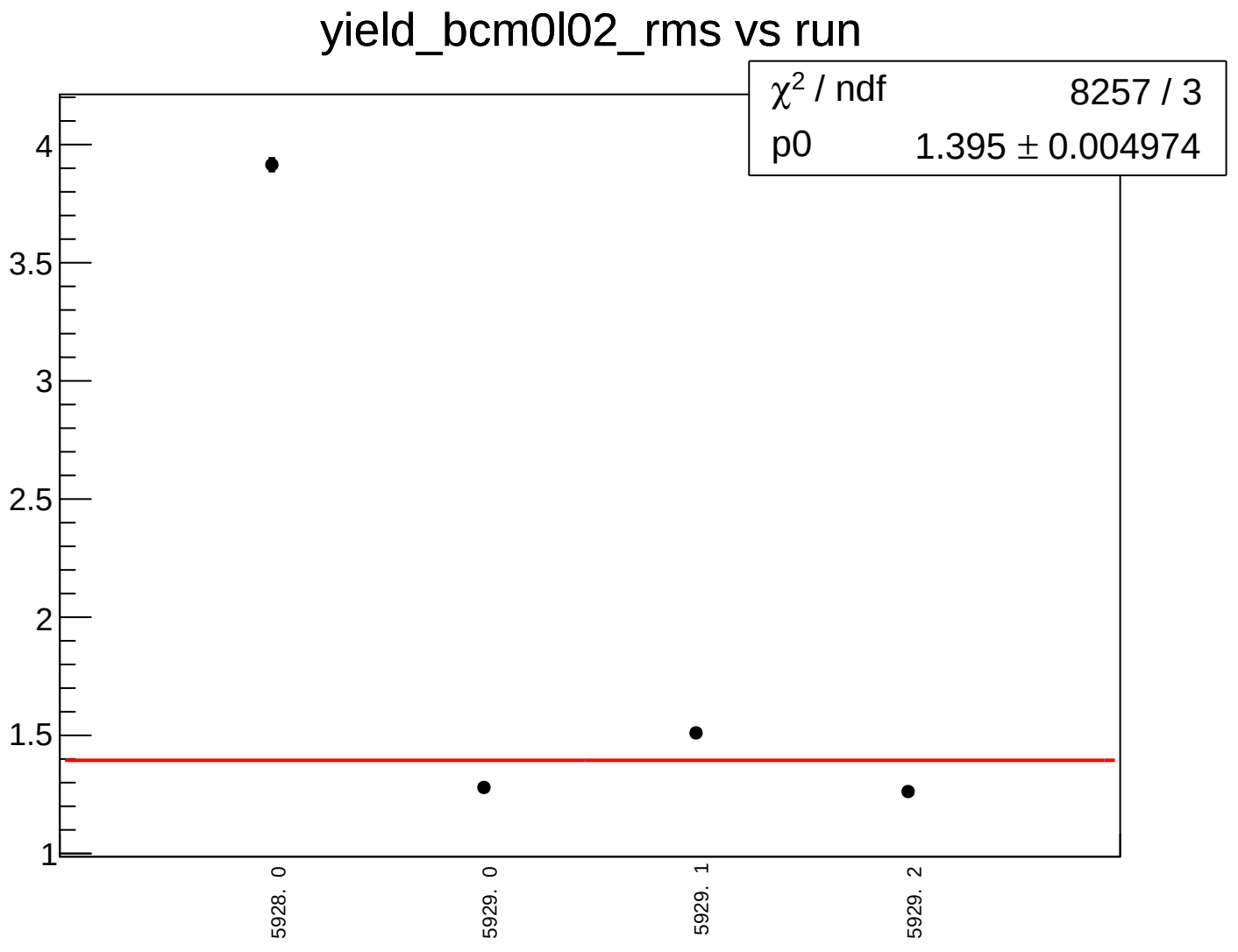

yield_cav4dQ_mean vs run
χ² / ndf 1.18e+05 / 3
p0 126.1 ± 0.00153
126.5
126
125.5
125
124.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.39
Std Dev 10.13
200
100
0
−100
−200

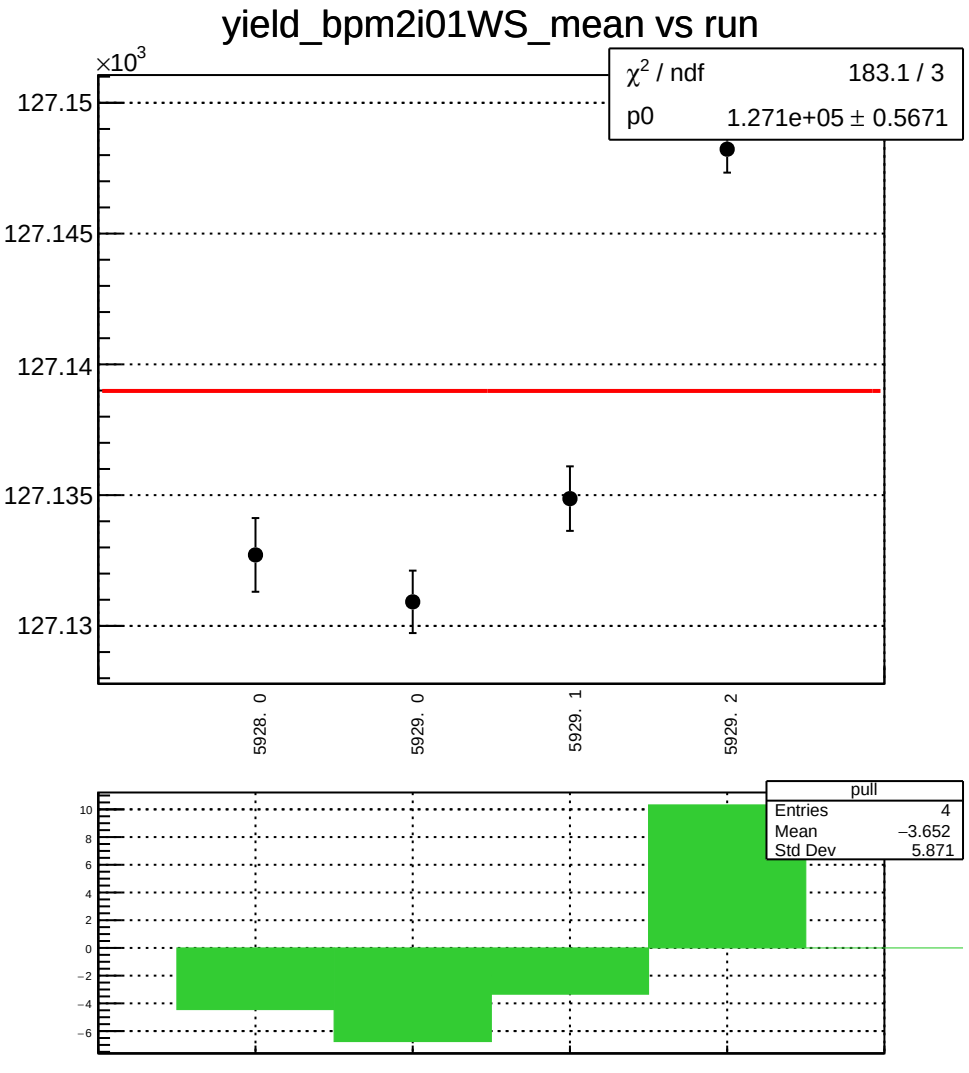

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

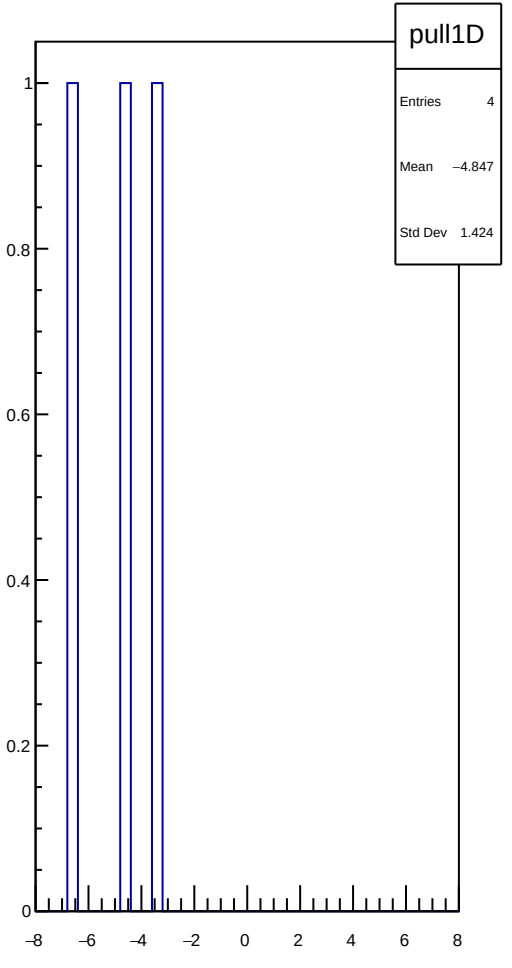

yield_cav4dQ_rms vs run
χ² / ndf 1.636e+04 / 3
p0 0.2873 ± 0.001082
4.5
4
3.5
3
2.5
2
1.5
1
0.5
5928. 0
5929. 0
5929. 1
5929. 2

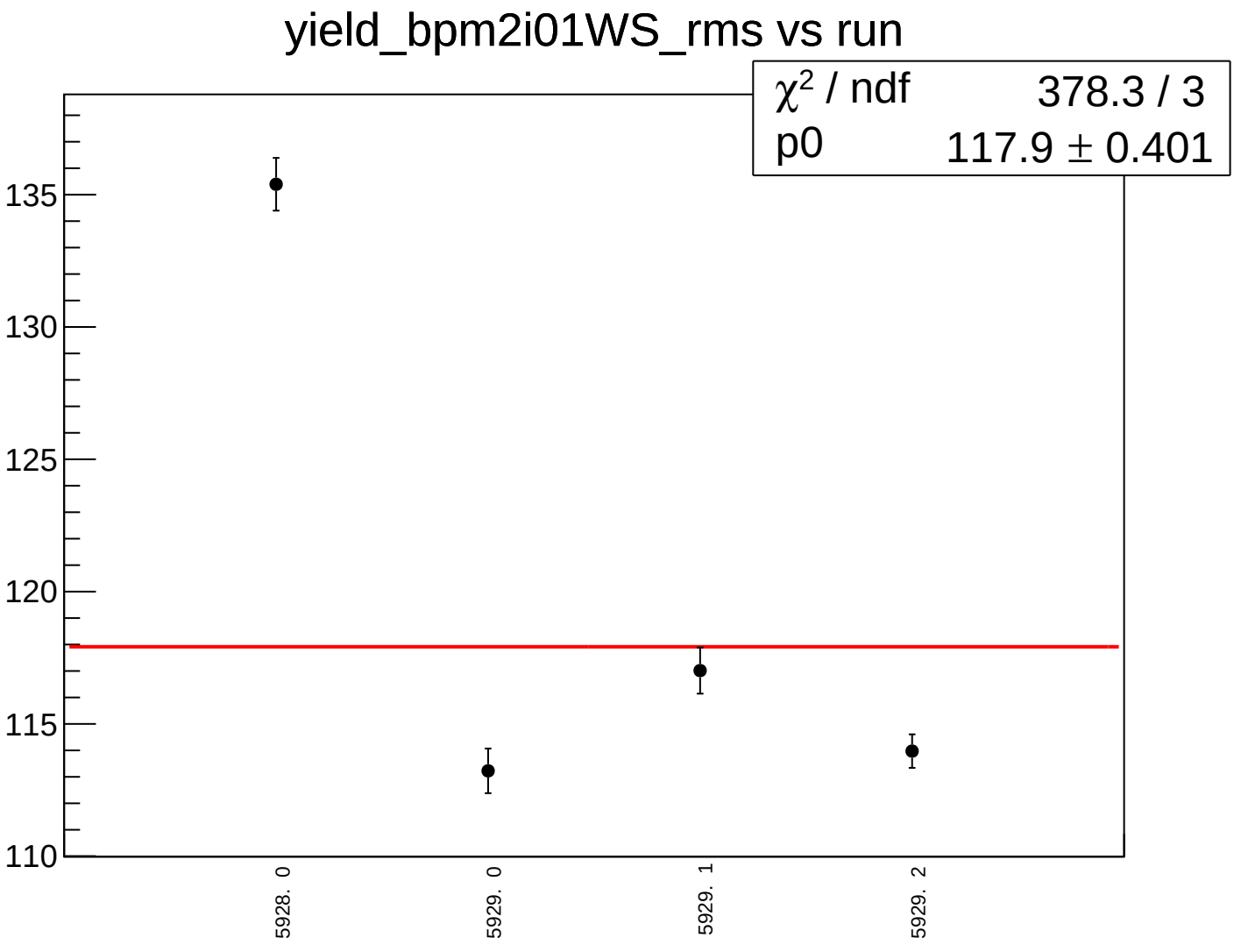

yield_bcm0l02_mean vs run
χ² / ndf 1724 / 3
p0 135.7 ± 0.007035
136
135.8
135.6
135.4
135.2
135
134.8
134.6
134.4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.9798
Std Dev 2.82
20
10
0
−10
−20
−30

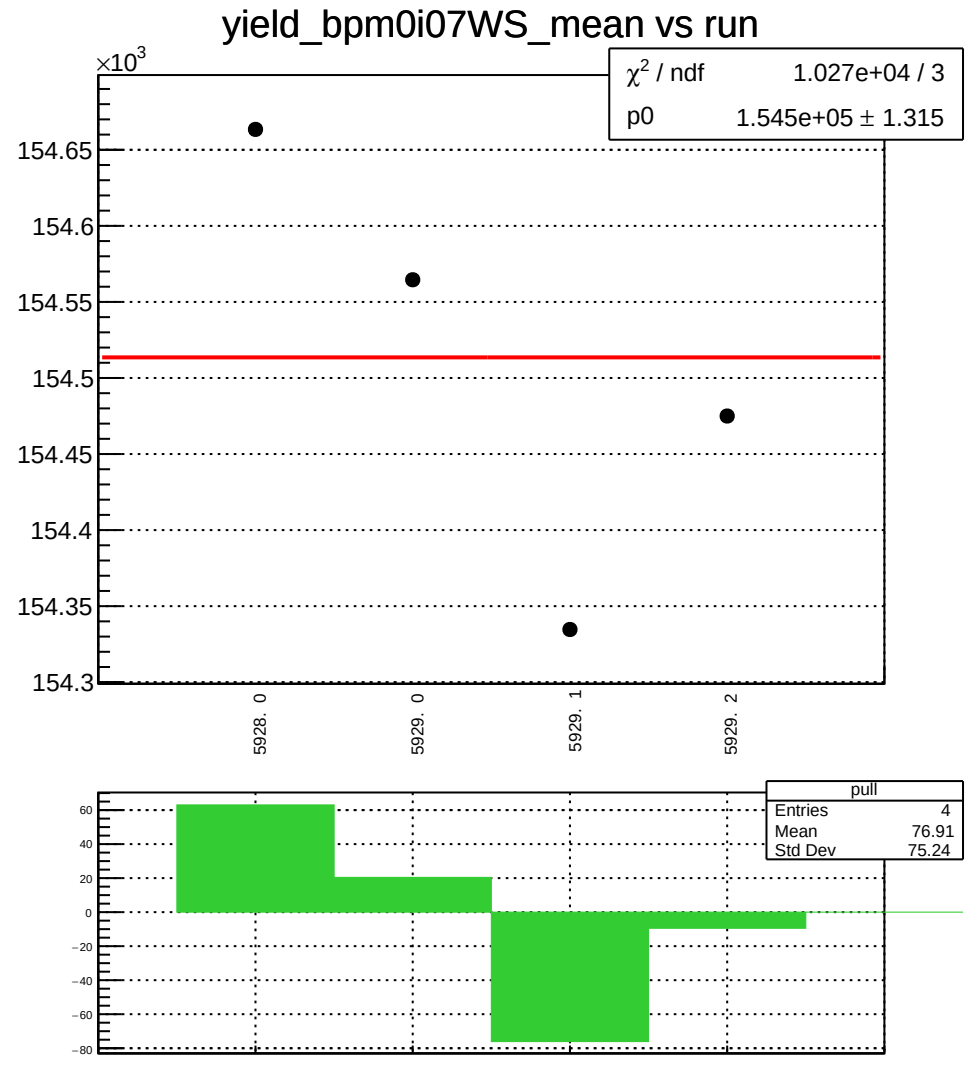

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

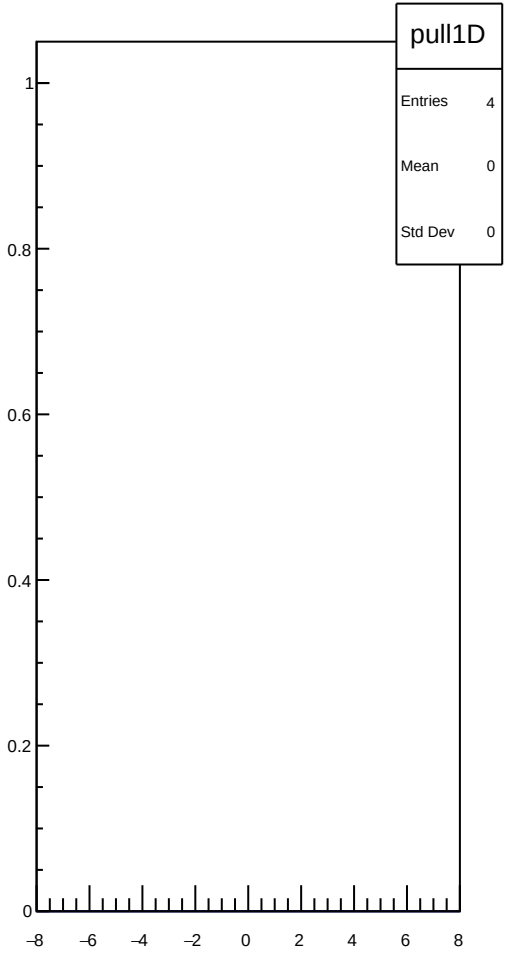

yield_bcm0l02_rms vs run
χ² / ndf 8257 / 3
p0 1.395 ± 0.004974
4
3.5
3
2.5
2
1.5
1
5928. 0
5929. 0
5929. 1
5929. 2

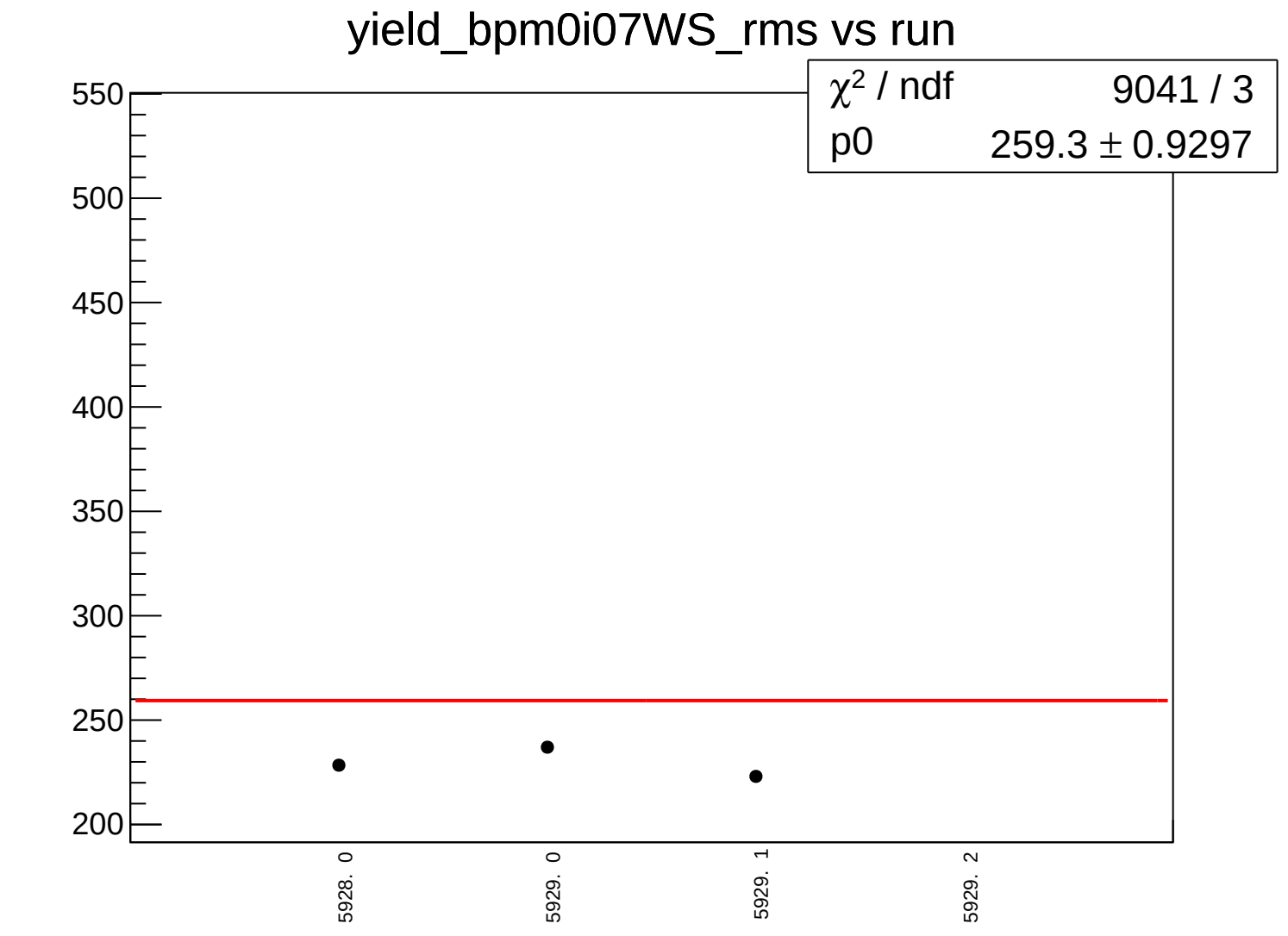

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 183.1 / 3
p0 1.271e+05 ± 0.5671
127.15
127.145
127.14
127.135
127.13
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.652
Std Dev 5.871
10
8
6
4
2
0
−2
−4
−6

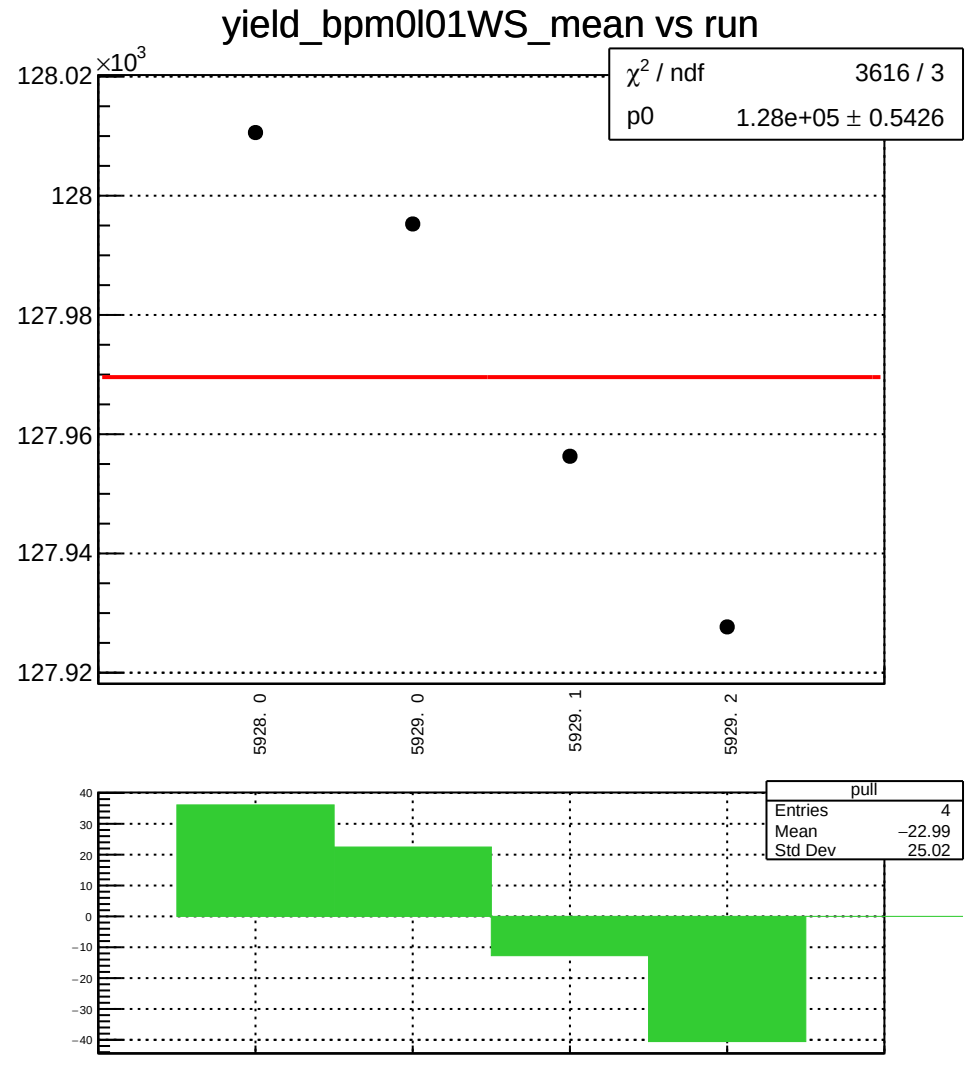

pull1D
Entries 4
Mean −4.847
Std Dev 1.424
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

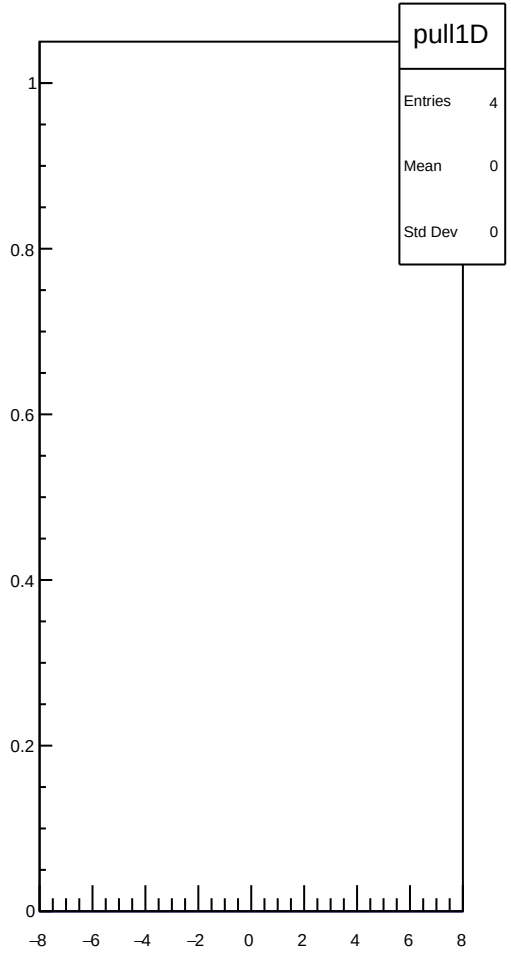

yield_bpm2i01WS_rms vs run
χ² / ndf 378.3 / 3
p0 117.9 ± 0.401
135
130
125
120
115
110
5928. 0
5929. 0
5929. 1
5929. 2

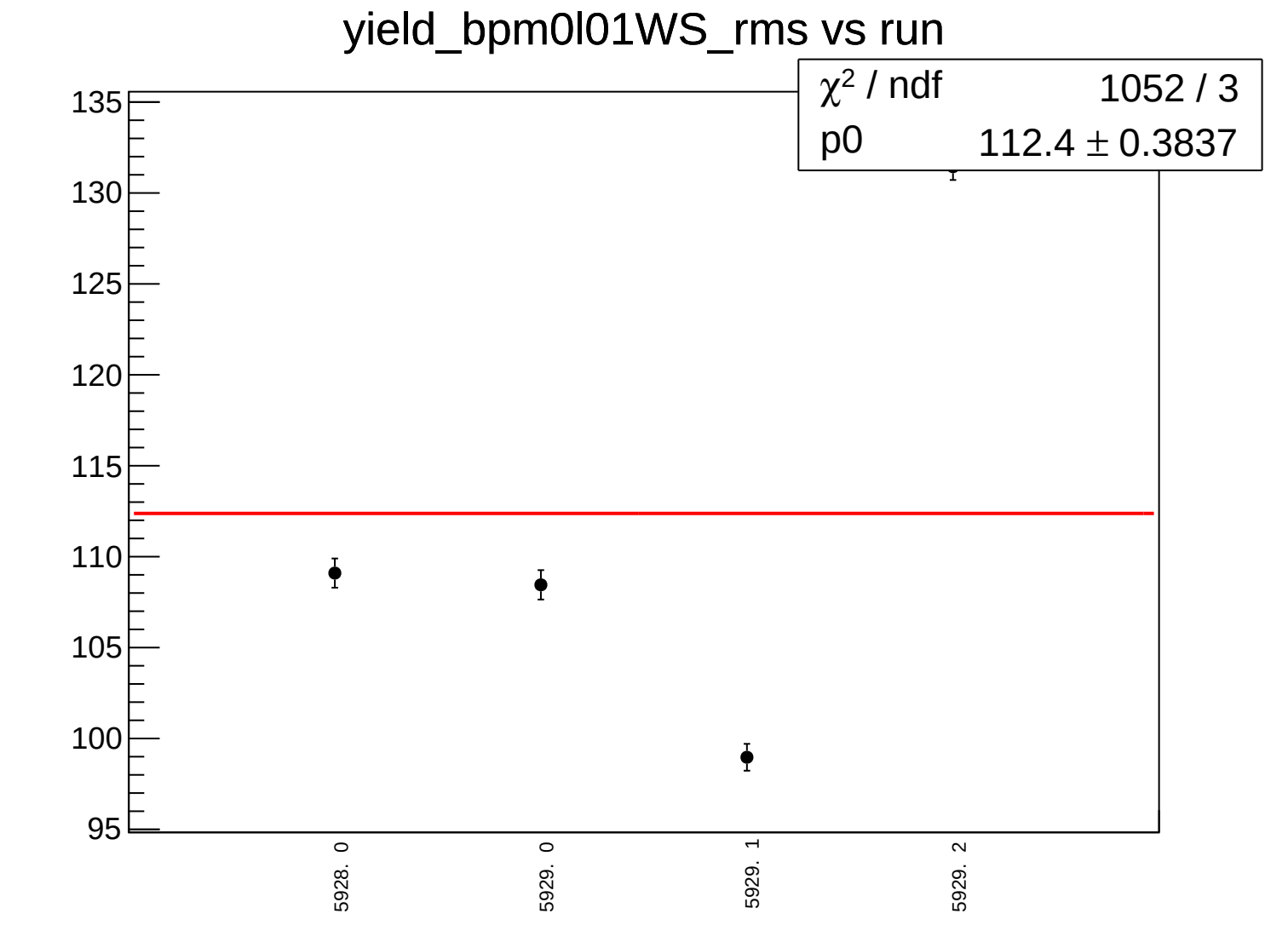

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.027e+04 / 3
p0 1.545e+05 ± 1.315
154.65
154.6
154.55
154.5
154.45
154.4
154.35
154.3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 76.91
Std Dev 75.24
60
40
20
0
−20
−40
−60
−80

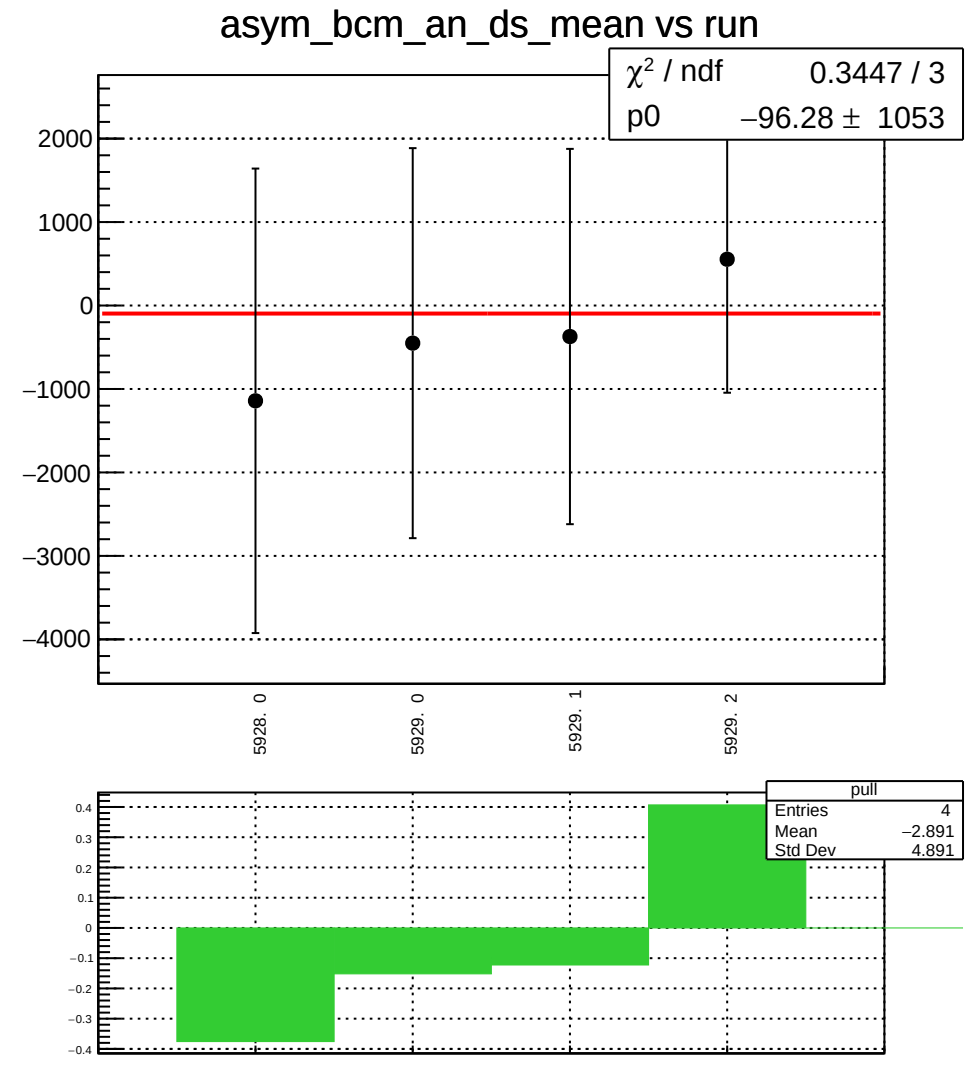

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

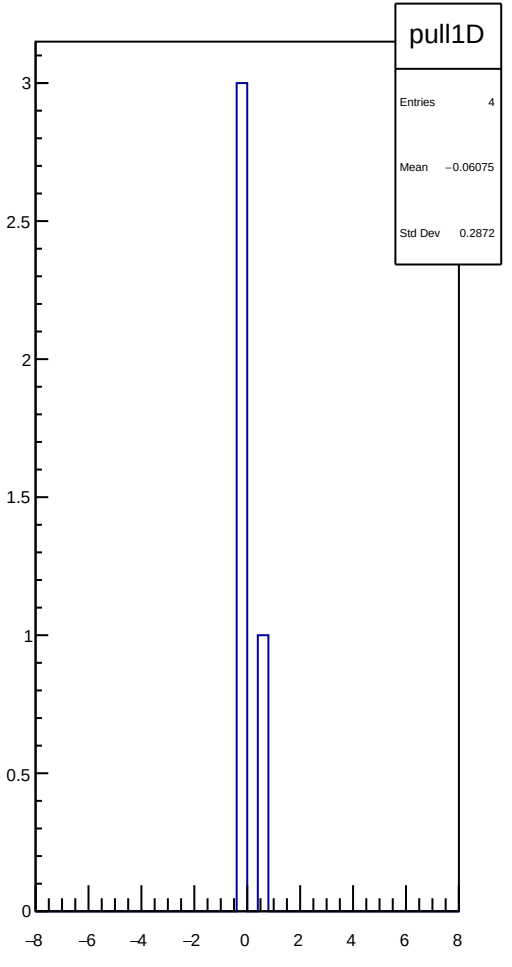

yield_bpm0i07WS_rms vs run
χ^2 / ndf 9041 / 3
p0 259.3 ± 0.9297
550
500
450
400
350
300
250
200
5928. 0
5929. 0
5929. 1
5929. 2

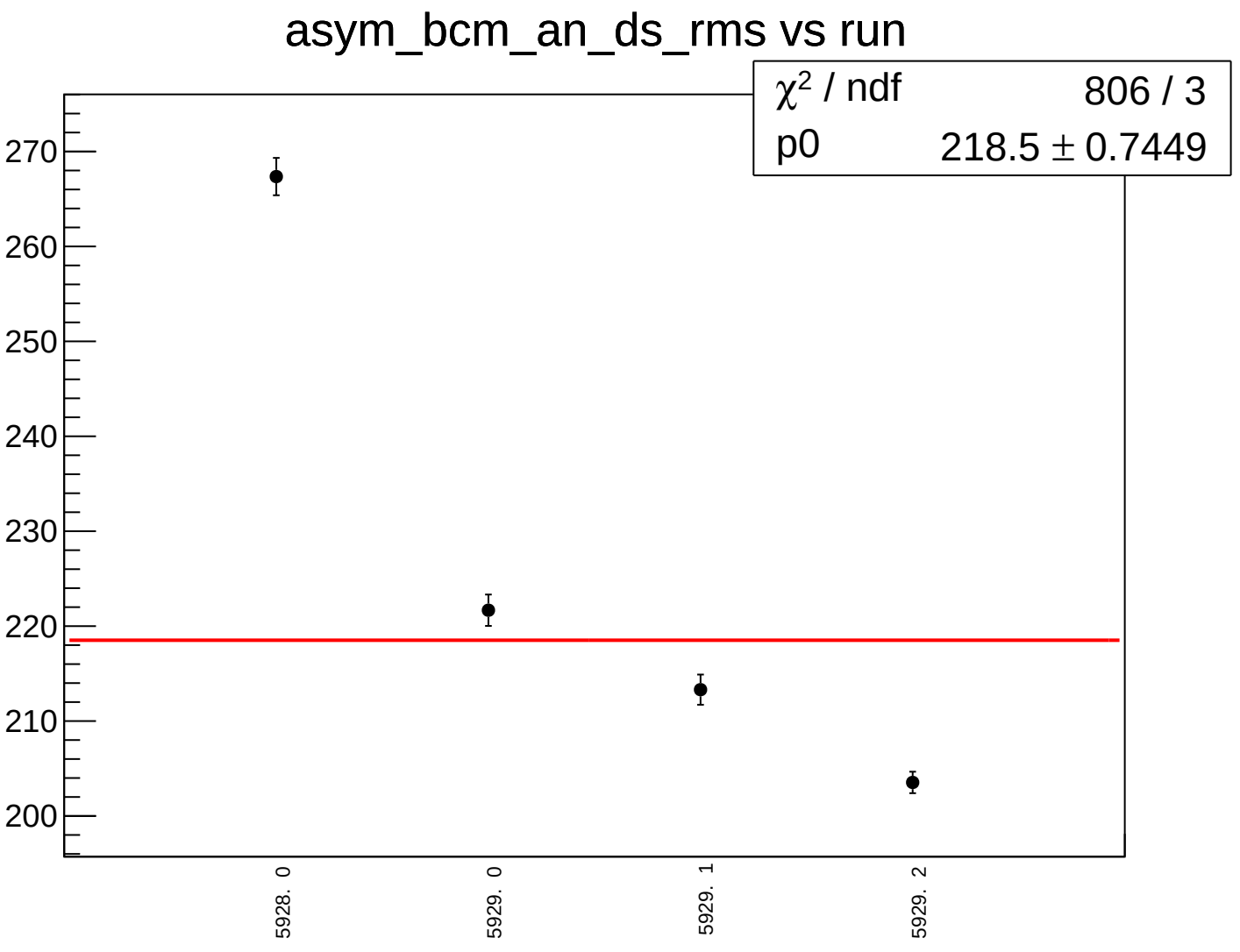

yield_bpm0l01WS_mean vs run
×10^3
128.02
128
127.98
127.96
127.94
127.92
χ² / ndf 3616 / 3
p0 1.28e+05 ± 0.5426
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −22.99
Std Dev 25.02
40
30
20
10
0
−10
−20
−30
−40

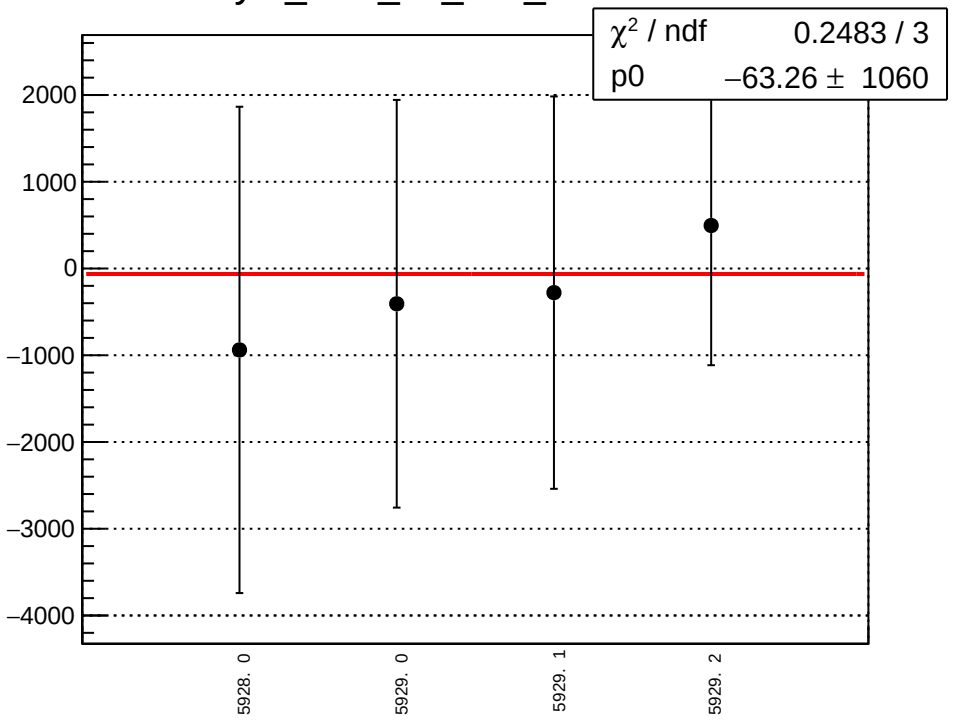

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

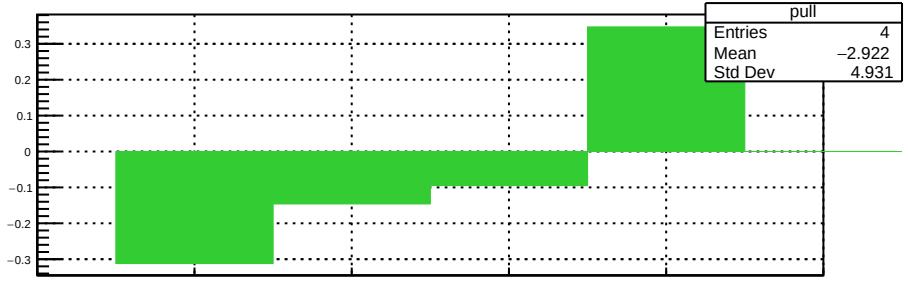

yield_bpm0l01WS_rms vs run
χ² / ndf 1052 / 3
p0 112.4 ± 0.3837
135
130
125
120
115
110
105
100
95
5928. 0
5929. 0
5929. 1
5929. 2

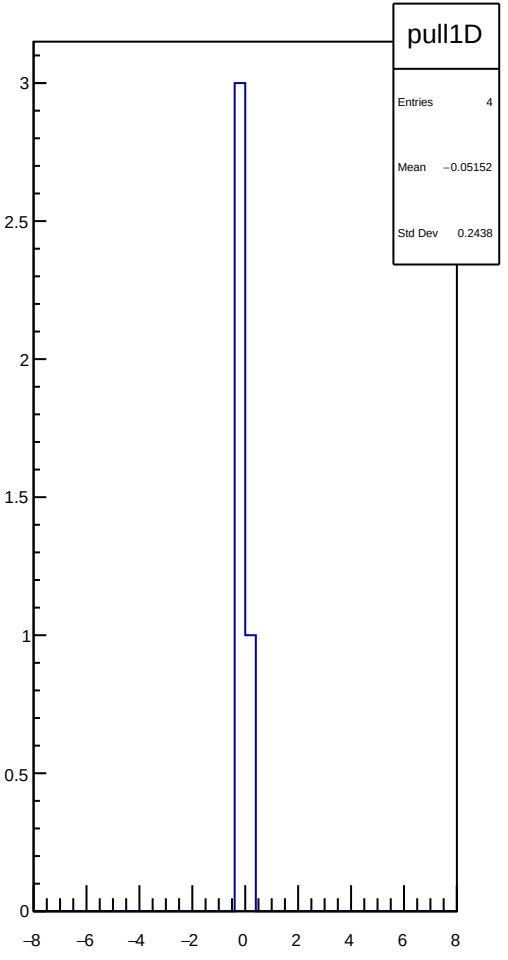

asym_bcm_an_ds_mean vs run
χ² / ndf 0.3447 / 3
p0 −96.28 ± 1053
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.891
Std Dev 4.891
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

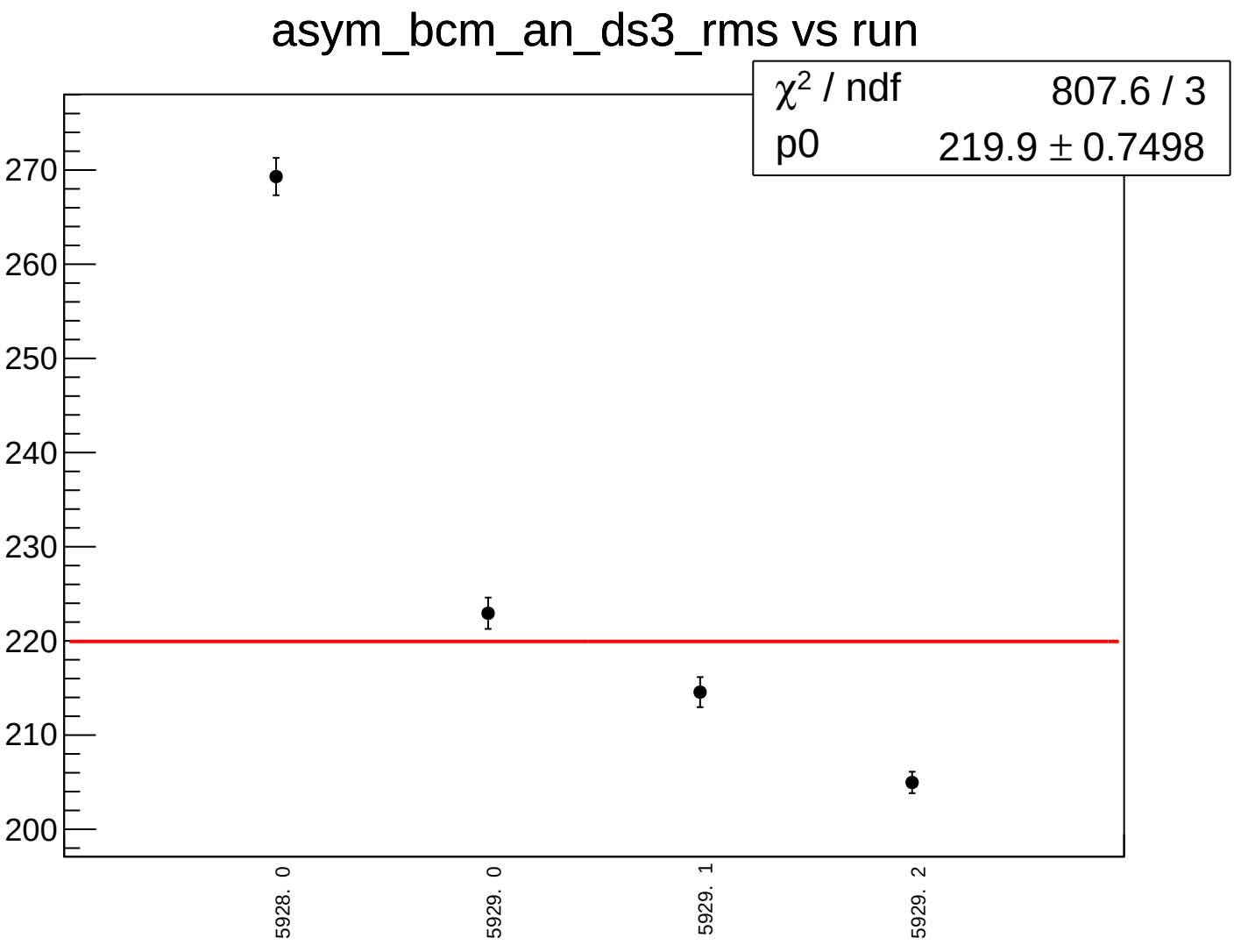

pull1D
Entries 4
Mean −0.06075
Std Dev 0.2872
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

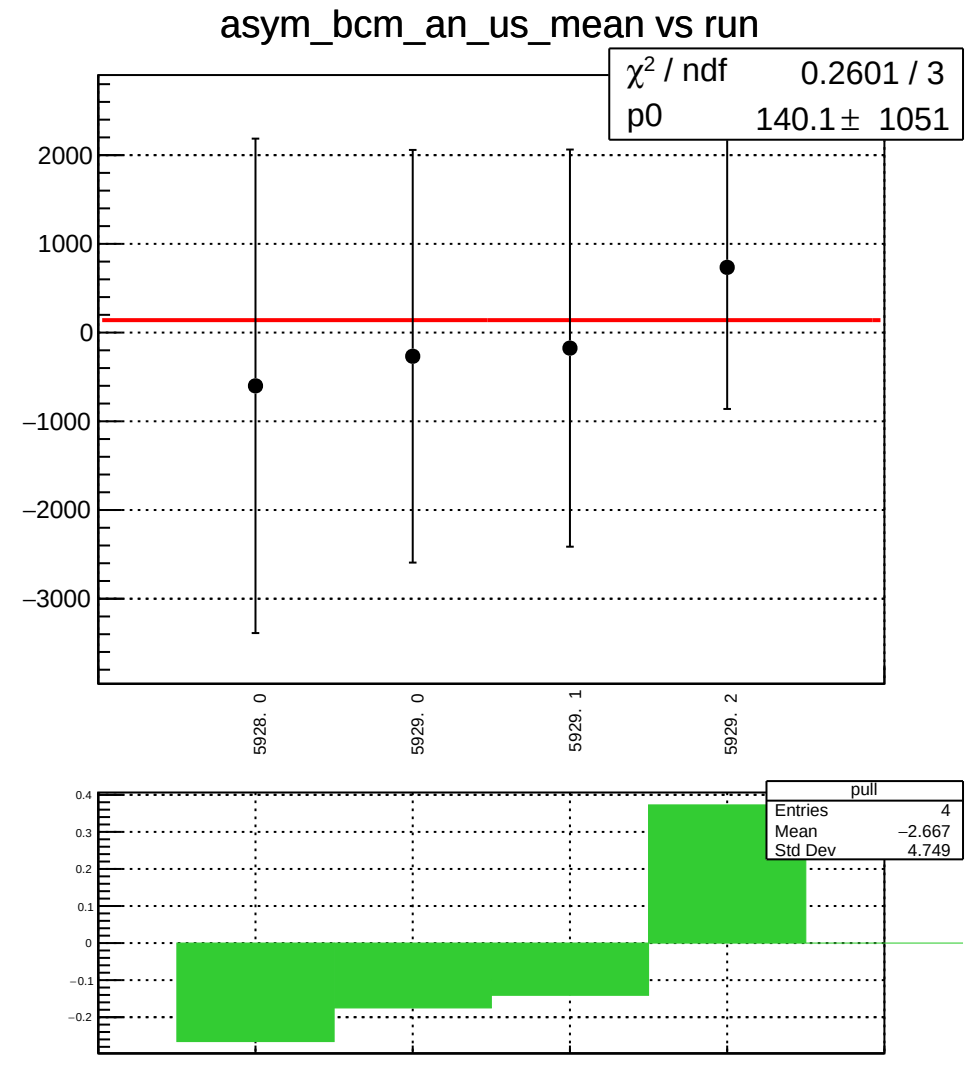

asym_bcm_an_ds_rms vs run
χ² / ndf 806 / 3
p0 218.5 ± 0.7449
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

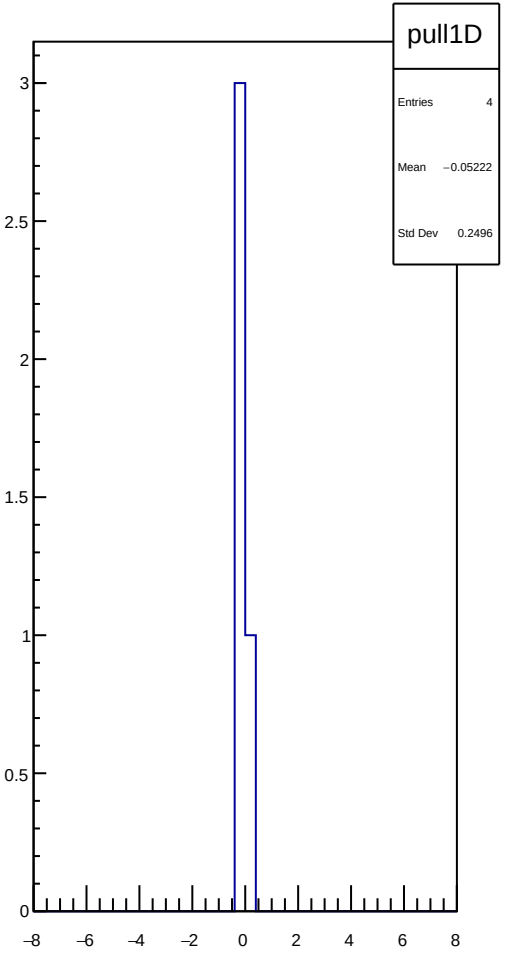

asym_bcm_an_ds3_mean vs run
χ² / ndf 0.2483 / 3
p0 −63.26 ± 1060
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2

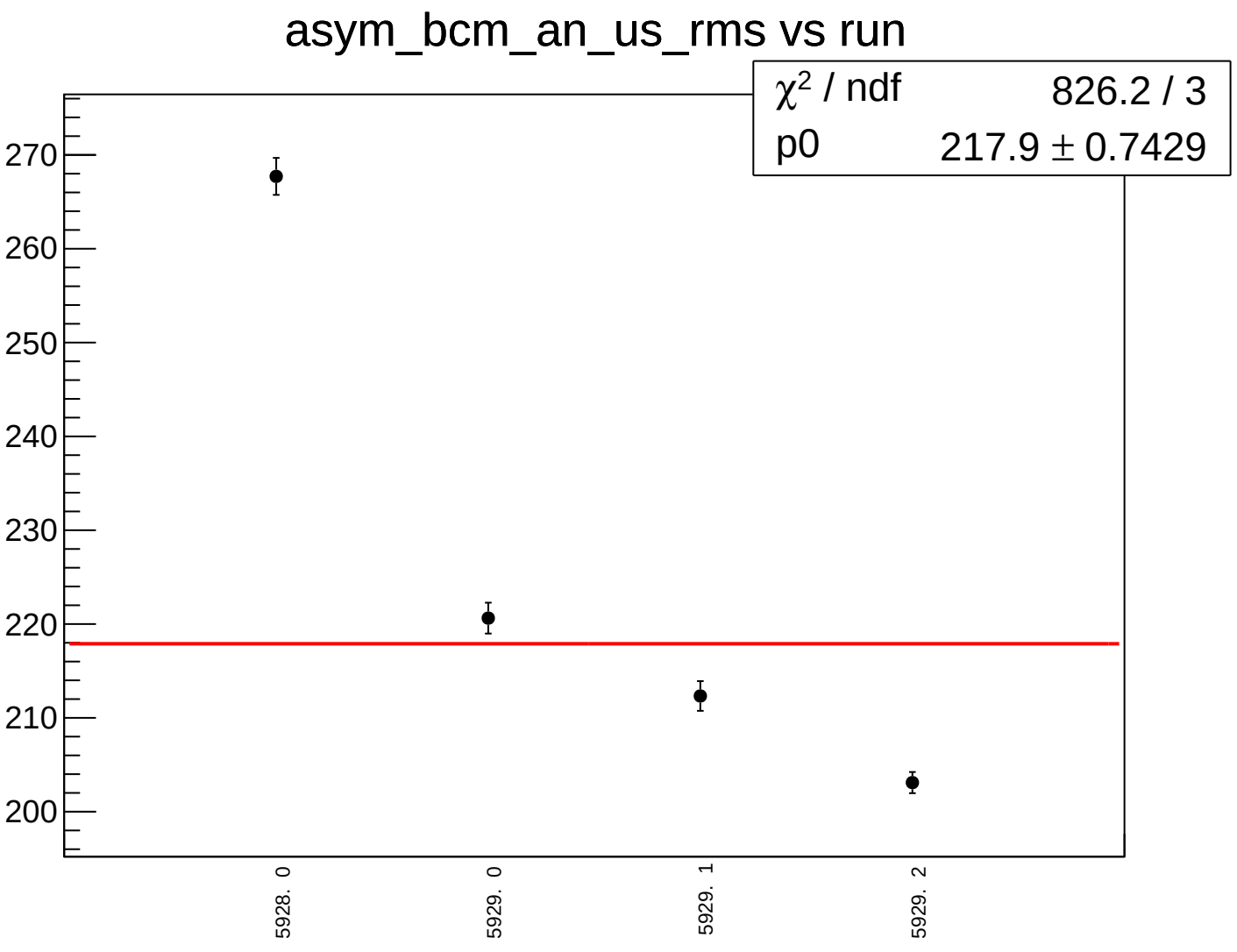

pull
Entries 4
Mean −2.922
Std Dev 4.931
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

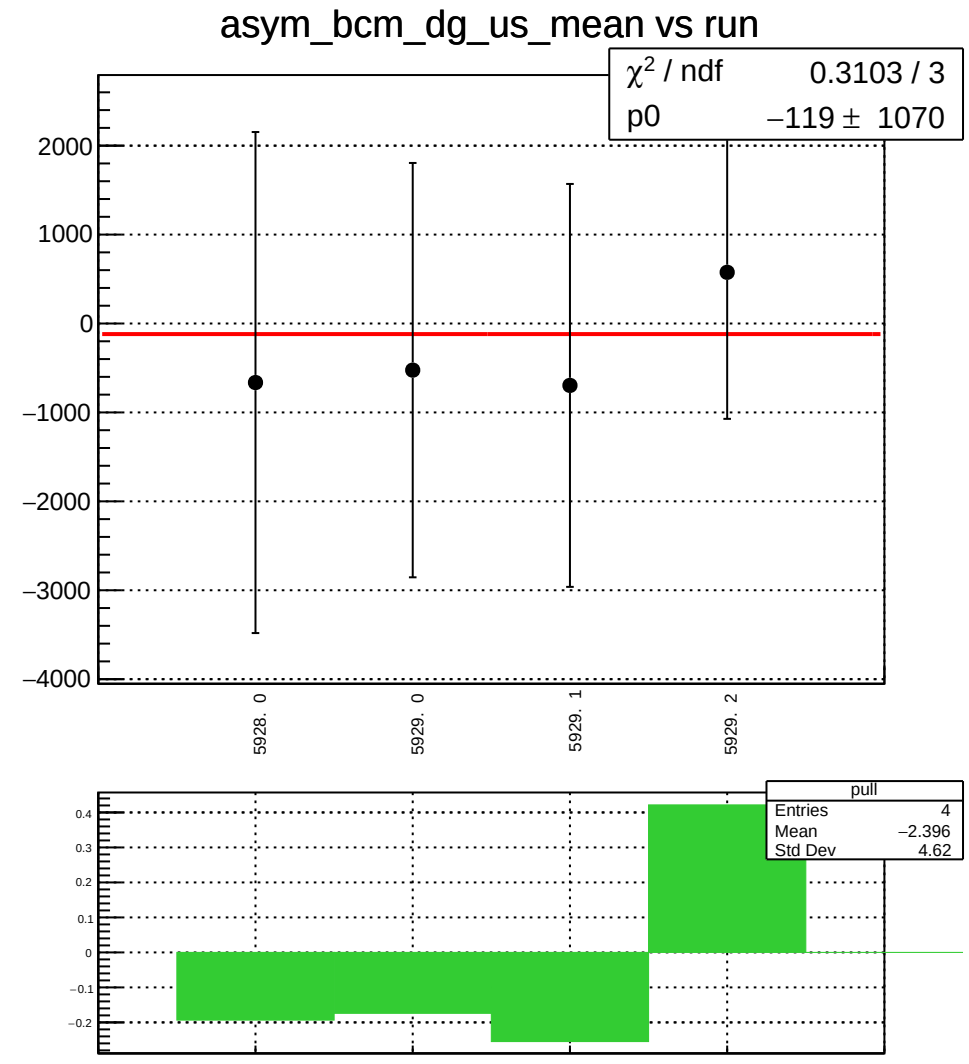

pull1D
Entries 4
Mean −0.05152
Std Dev 0.2438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

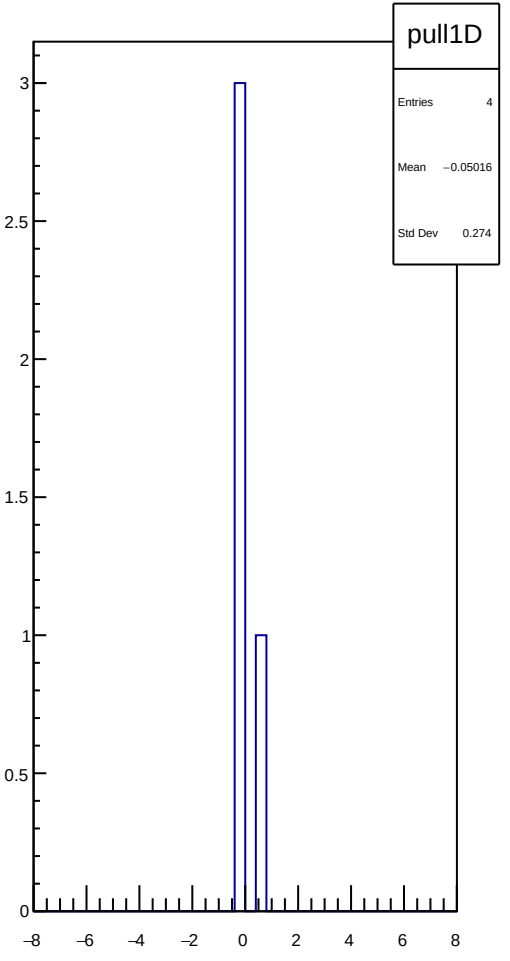

asym_bcm_an_ds3_rms vs run
χ² / ndf 807.6 / 3
p0 219.9 ± 0.7498
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

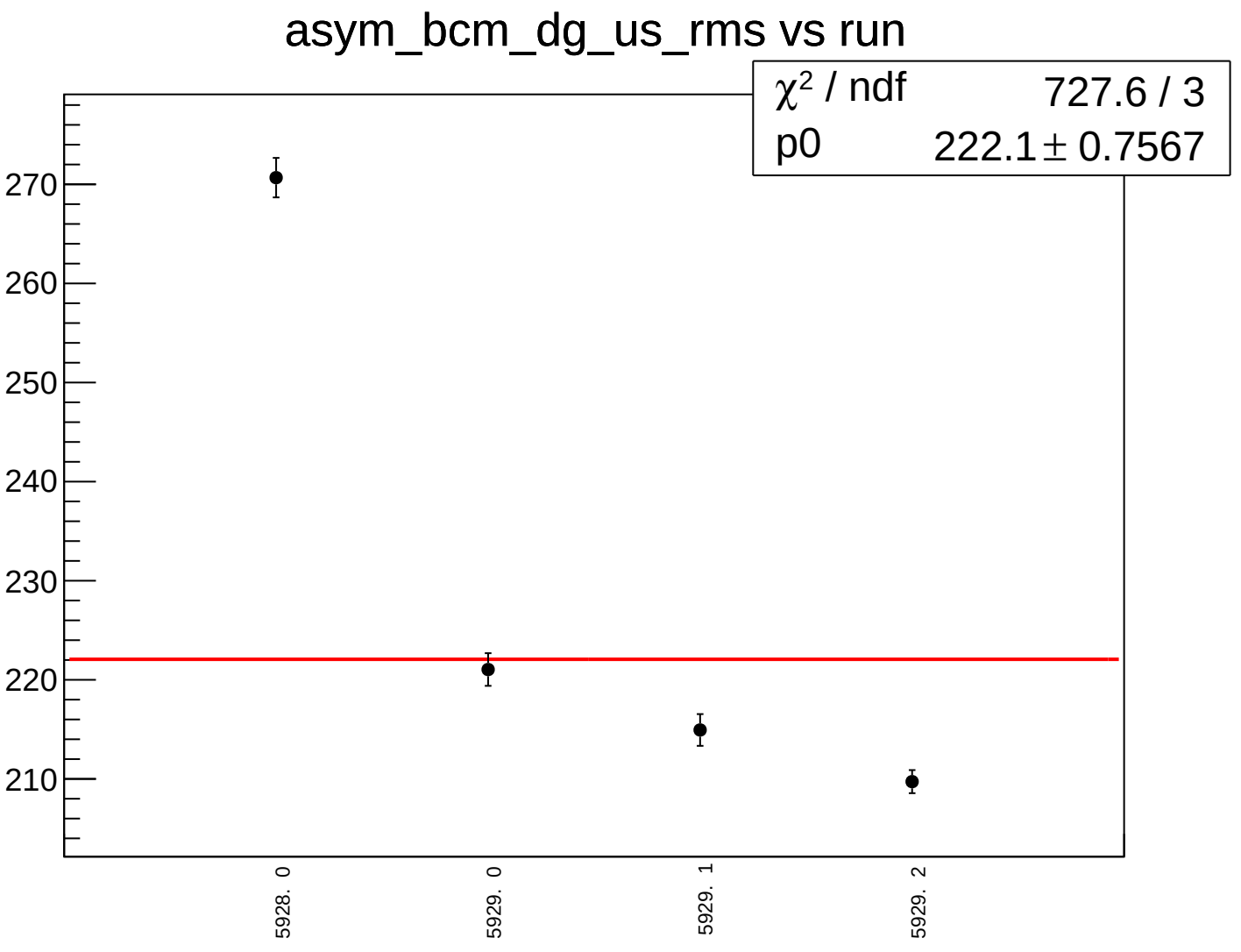

asym_bcm_an_us_mean vs run
χ² / ndf 0.2601 / 3
p0 140.1 ± 1051
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.667
Std Dev 4.749
0.4
0.3
0.2
0.1
0
−0.1
−0.2

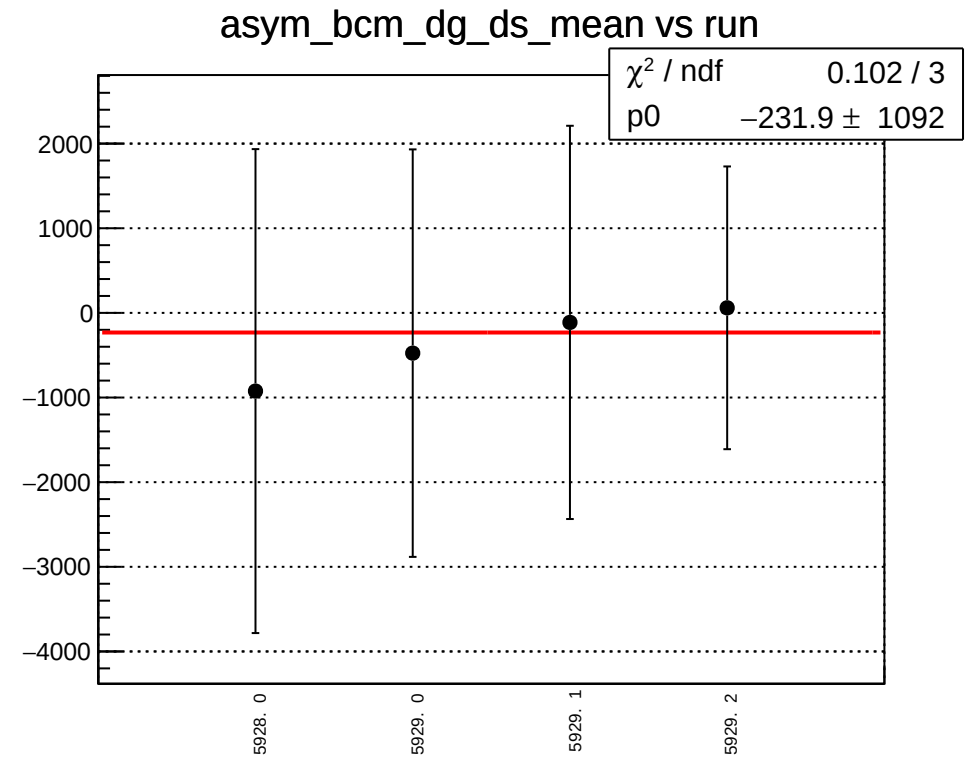

pull1D
Entries 4
Mean −0.05222
Std Dev 0.2496
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

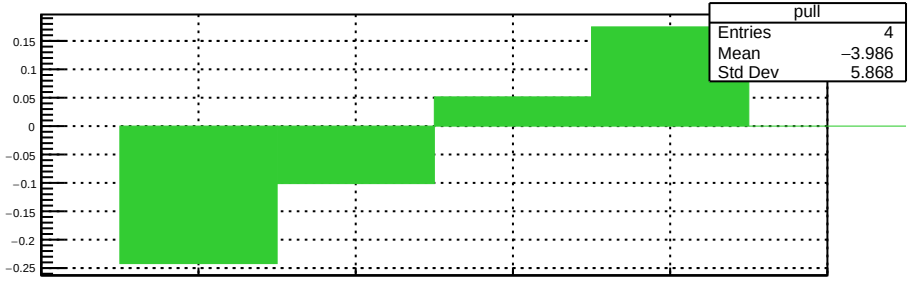

asym_bcm_an_us_rms vs run
χ² / ndf 826.2 / 3
p0 217.9 ± 0.7429
270
260
250
240
230
220
210
200
5928. 0
5929. 0
5929. 1
5929. 2

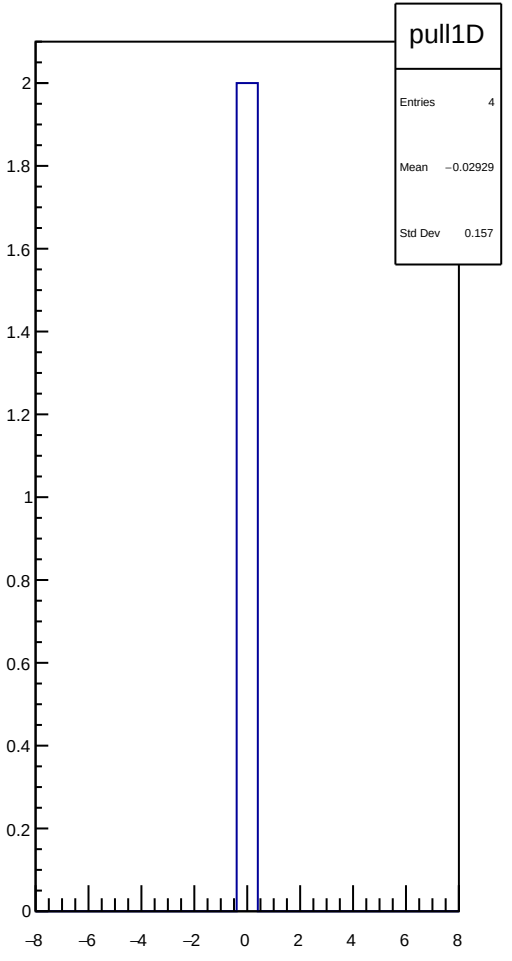

asym_bcm_dg_us_mean vs run
χ² / ndf 0.3103 / 3
p0 −119 ± 1070
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.396
Std Dev 4.62
0.4
0.3
0.2
0.1
0
−0.1
−0.2

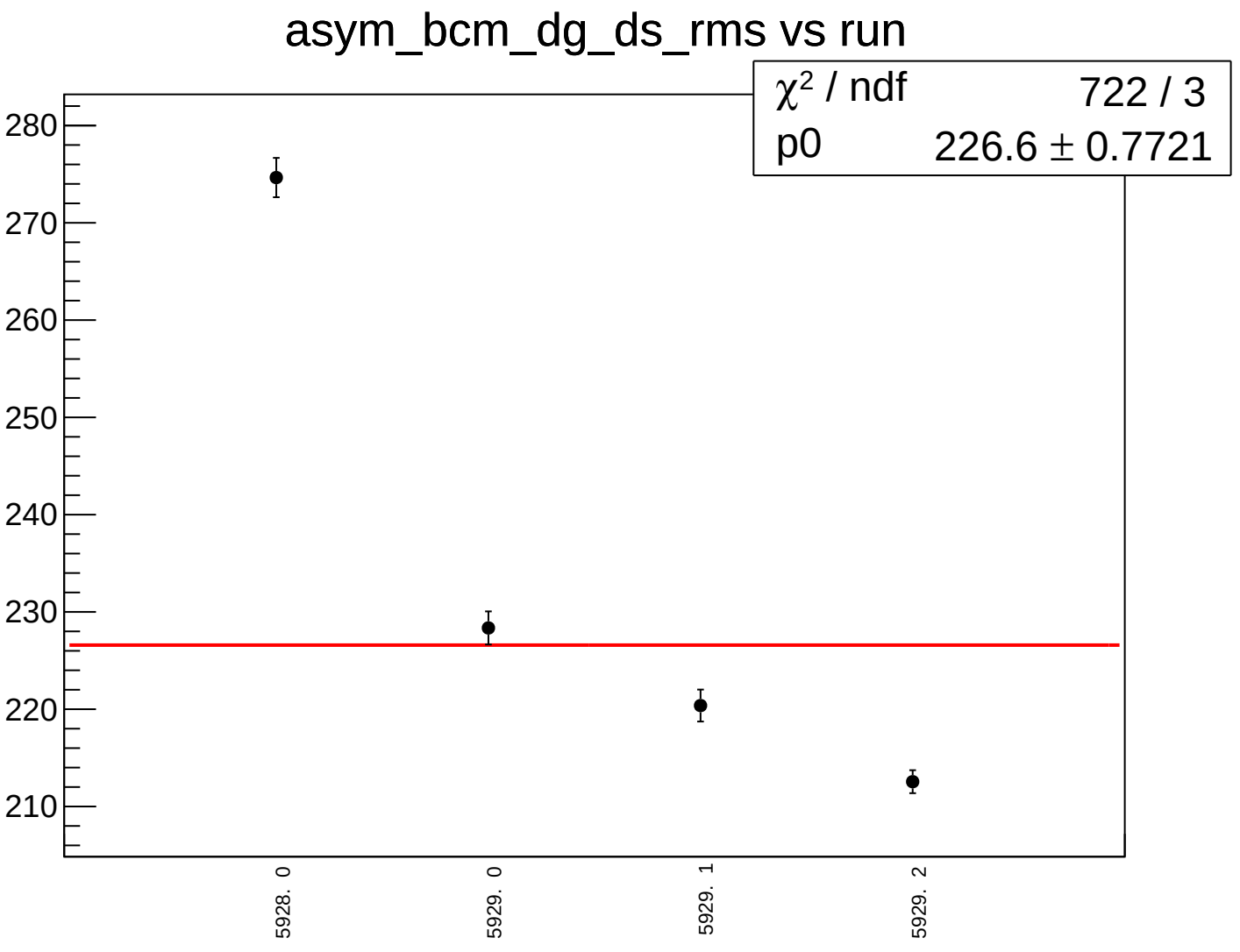

pull1D
Entries 4
Mean −0.05016
Std Dev 0.274
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

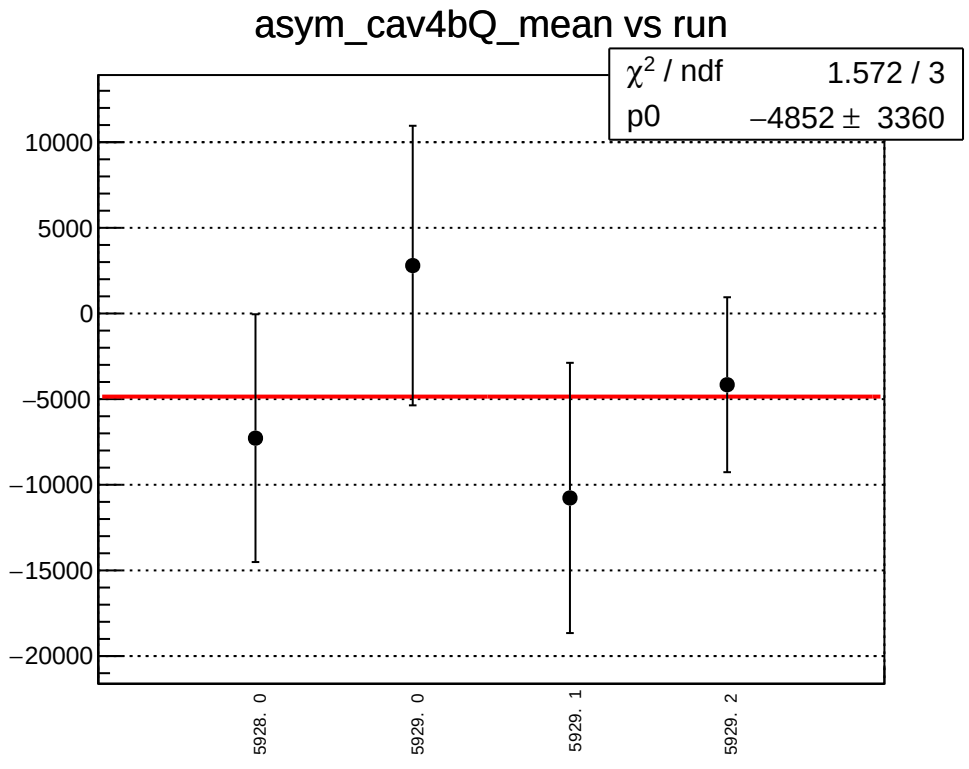

asym_bcm_dg_us_rms vs run
χ² / ndf 727.6 / 3
p0 222.1 ± 0.7567
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

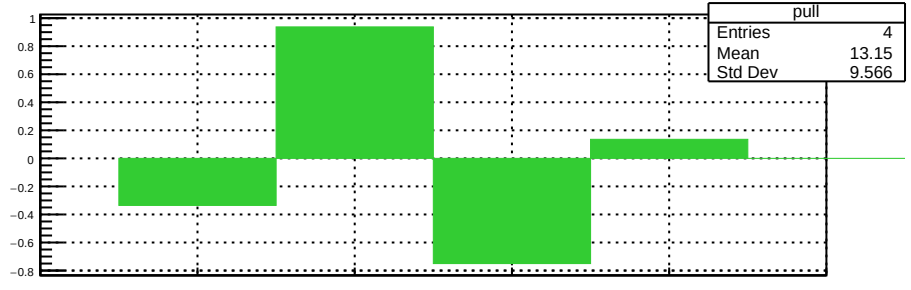

asym_bcm_dg_ds_mean vs run
χ² / ndf 0.102 / 3
p0 −231.9 ± 1092
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2

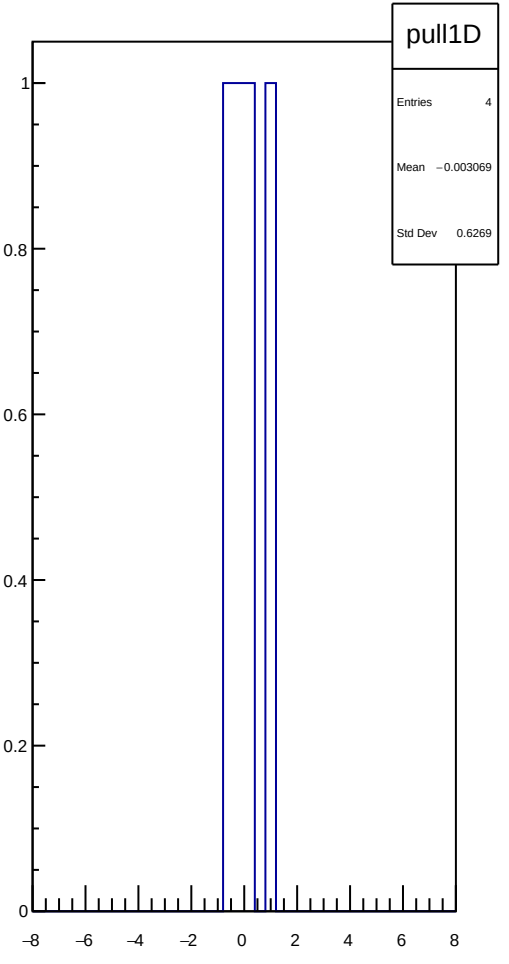

pull
Entries 4
Mean −3.986
Std Dev 5.868
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

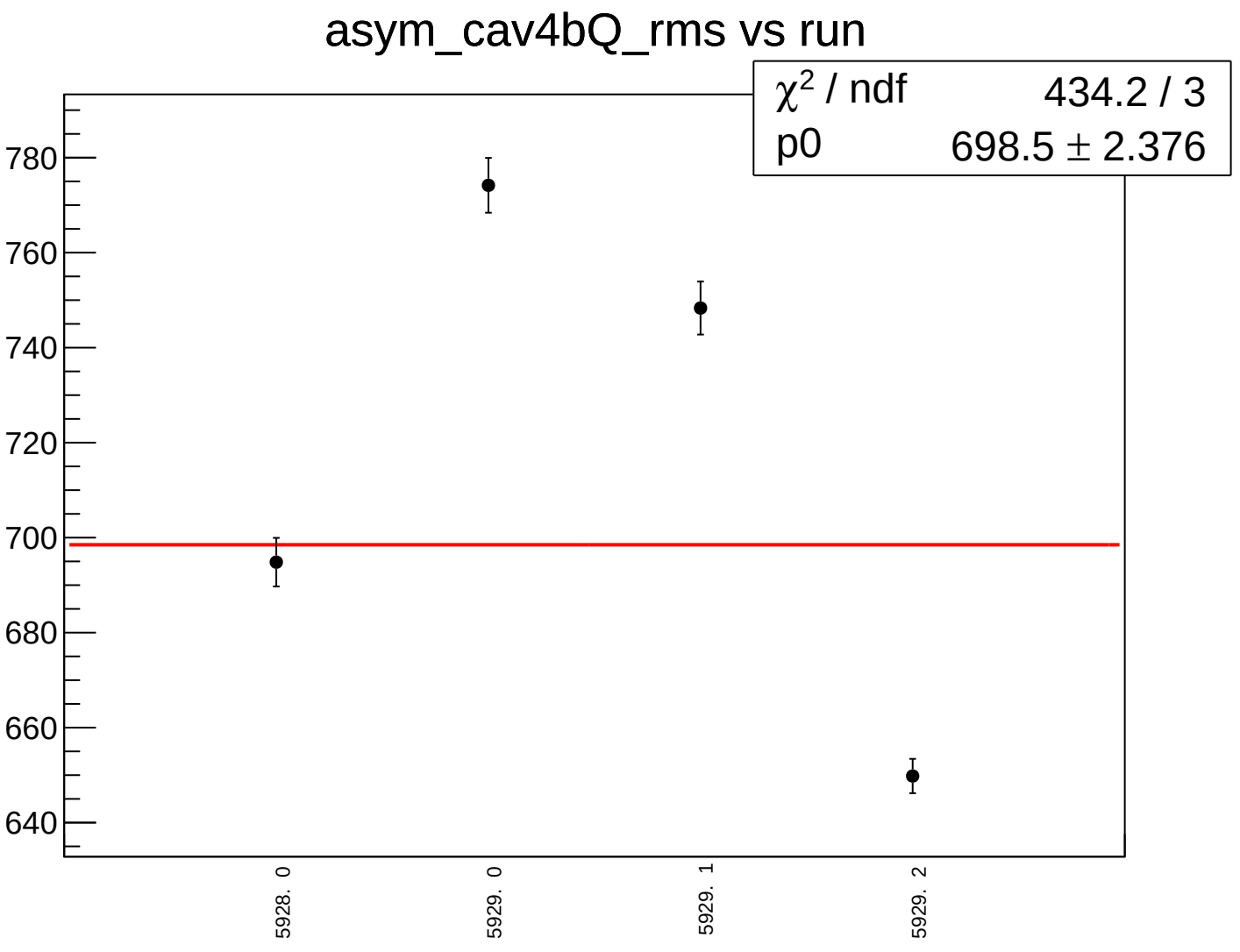

pull1D
Entries 4
Mean −0.02929
Std Dev 0.157
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

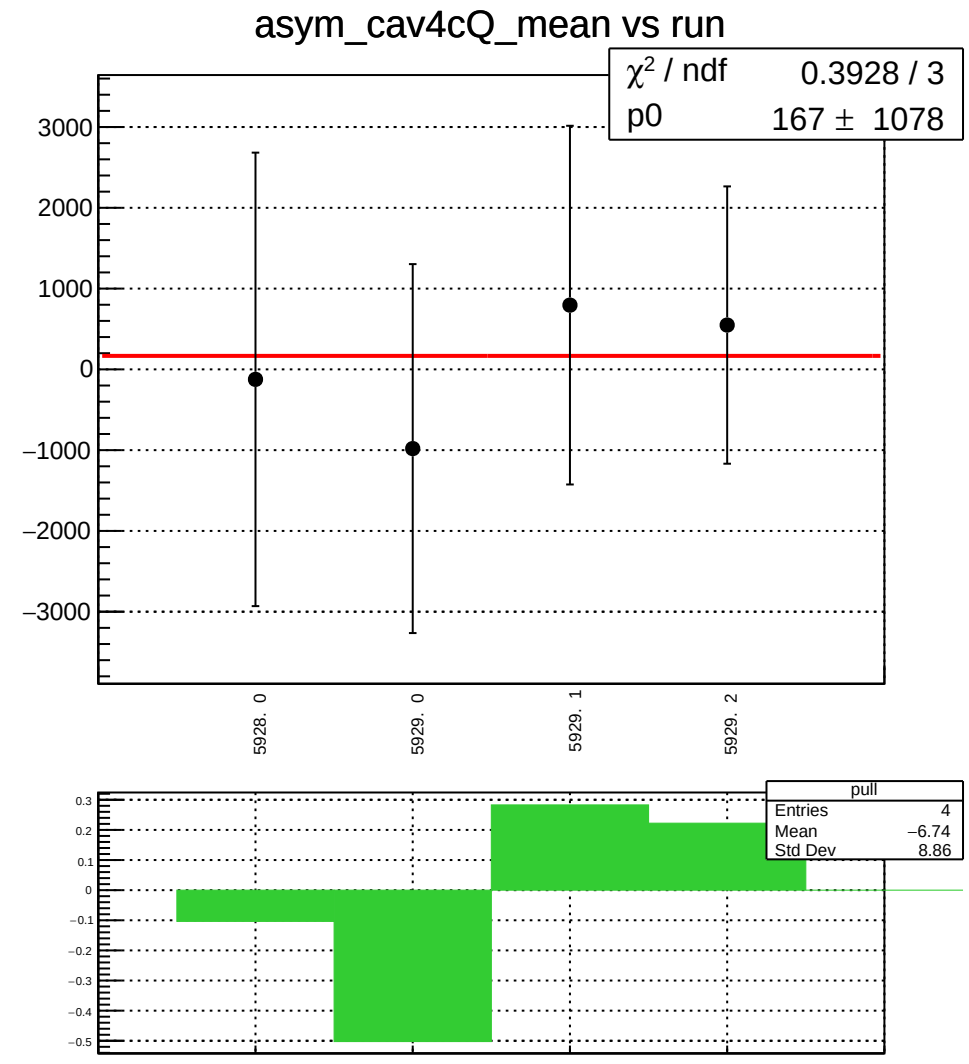

asym_bcm_dg_ds_rms vs run
χ² / ndf 722 / 3
p0 226.6 ± 0.7721
280
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

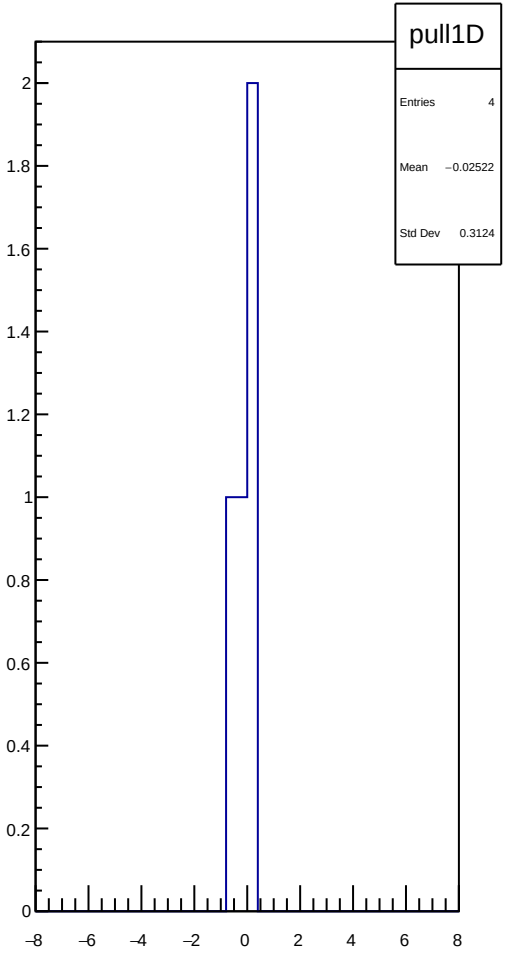

asym_cav4bQ_mean vs run
χ² / ndf 1.572 / 3
p0 −4852 ± 3360
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2

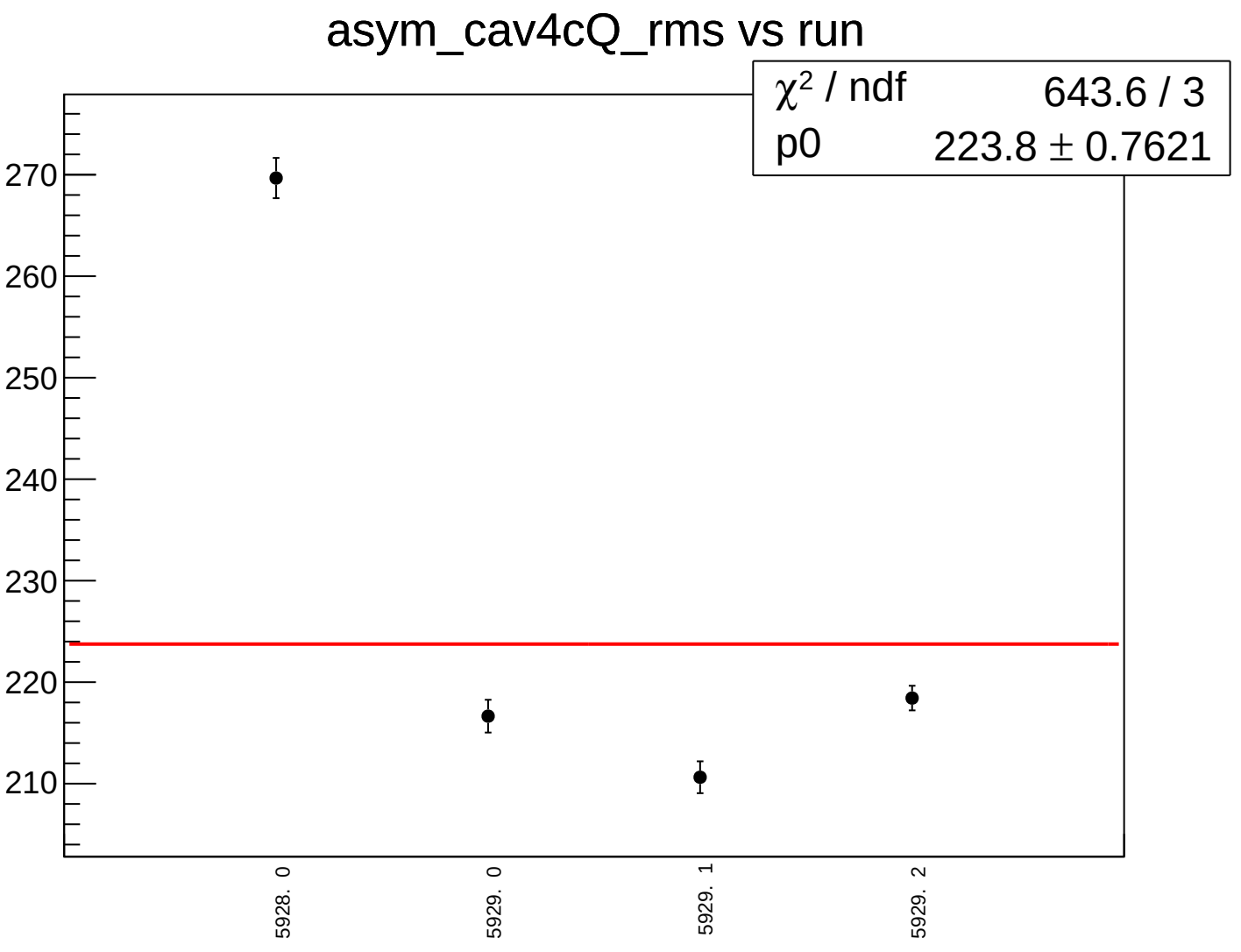

pull
Entries 4
Mean 13.15
Std Dev 9.566
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

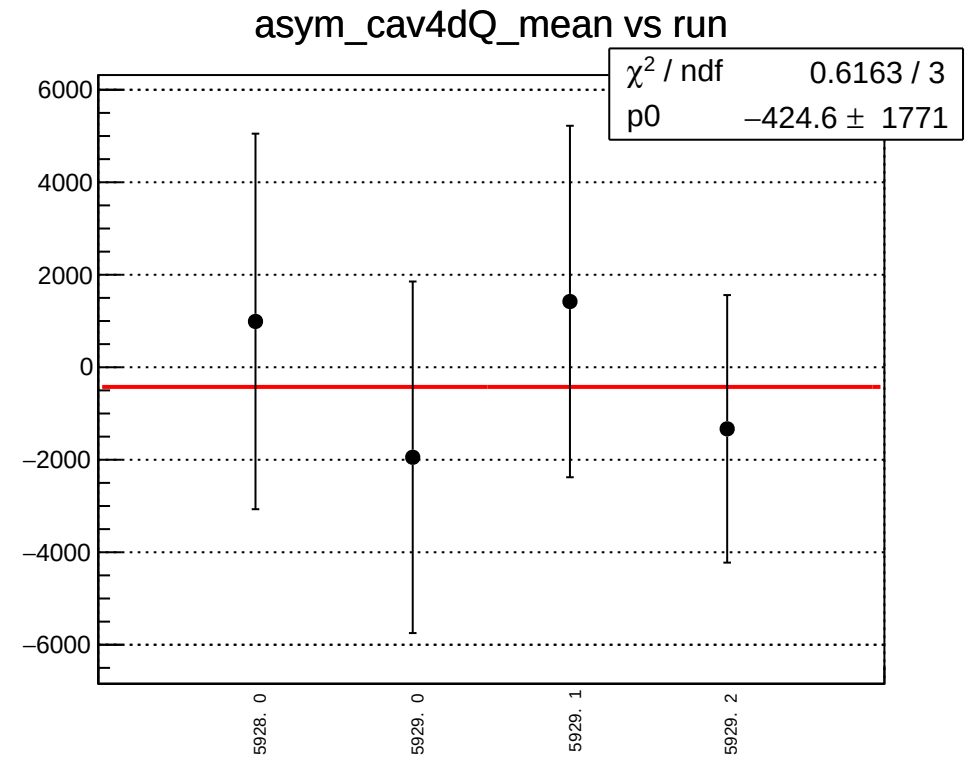

pull1D
Entries 4
Mean −0.003069
Std Dev 0.6269
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

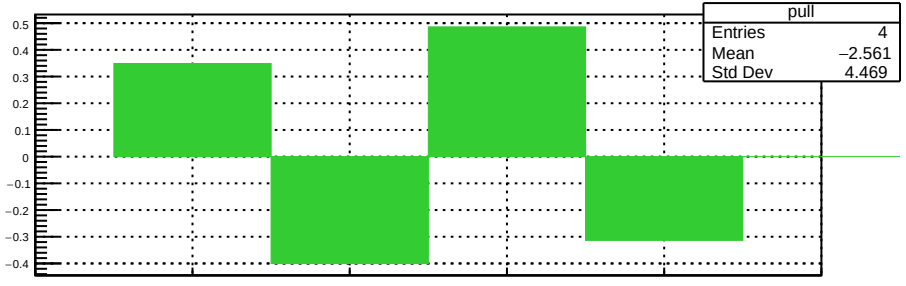

asym_cav4bQ_rms vs run
χ² / ndf 434.2 / 3
p0 698.5 ± 2.376
780
760
740
720
700
680
660
640
5928. 0
5929. 0
5929. 1
5929. 2

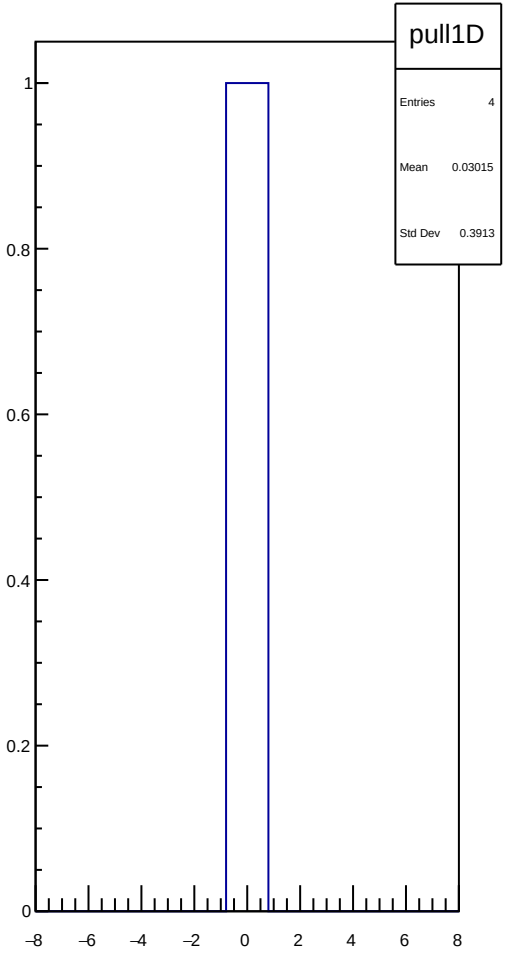

asym_cav4cQ_mean vs run
χ² / ndf 0.3928 / 3
p0 167 ± 1078
3000
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.74
Std Dev 8.86
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

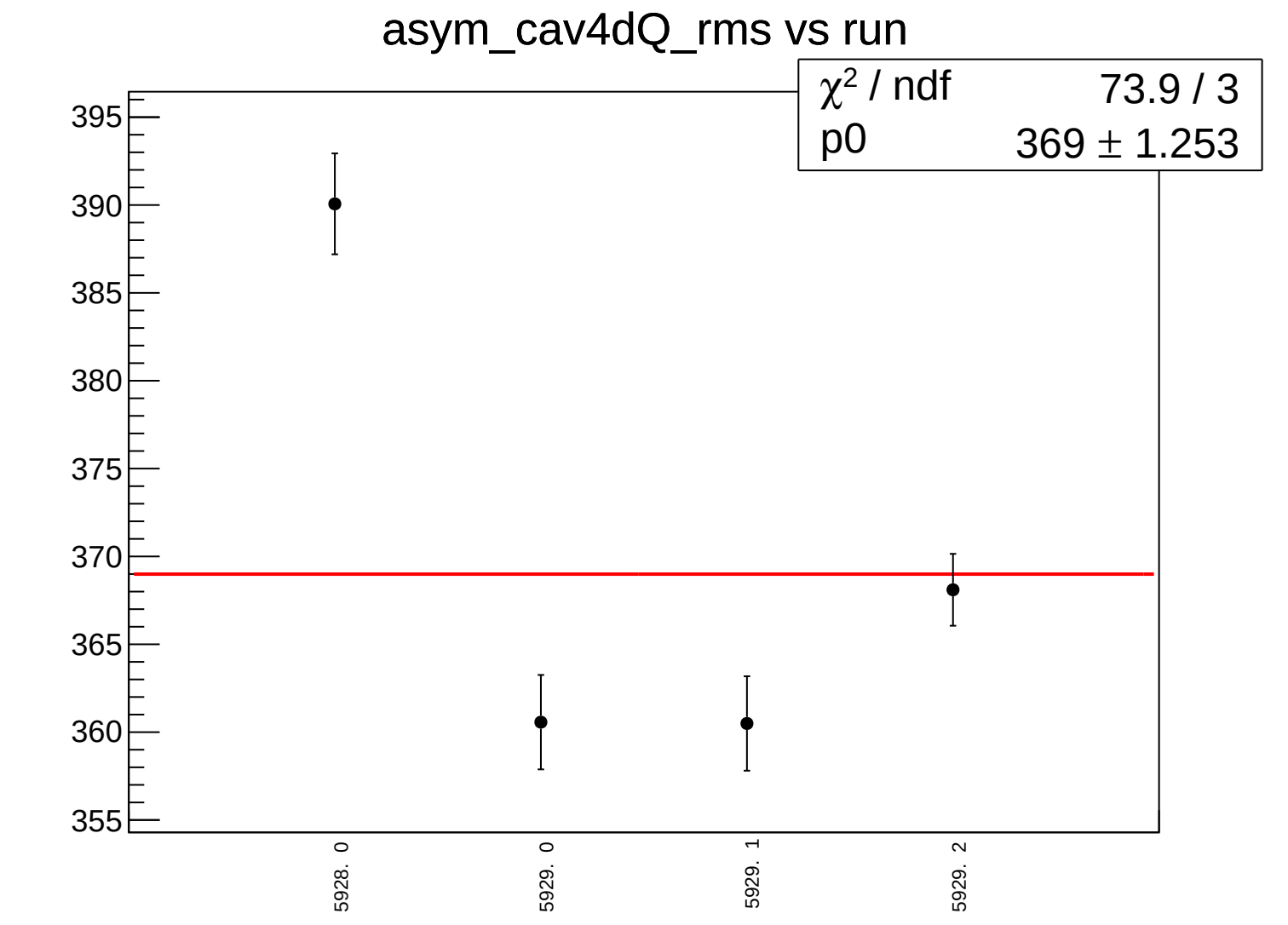

pull1D
Entries 4
Mean −0.02522
Std Dev 0.3124
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

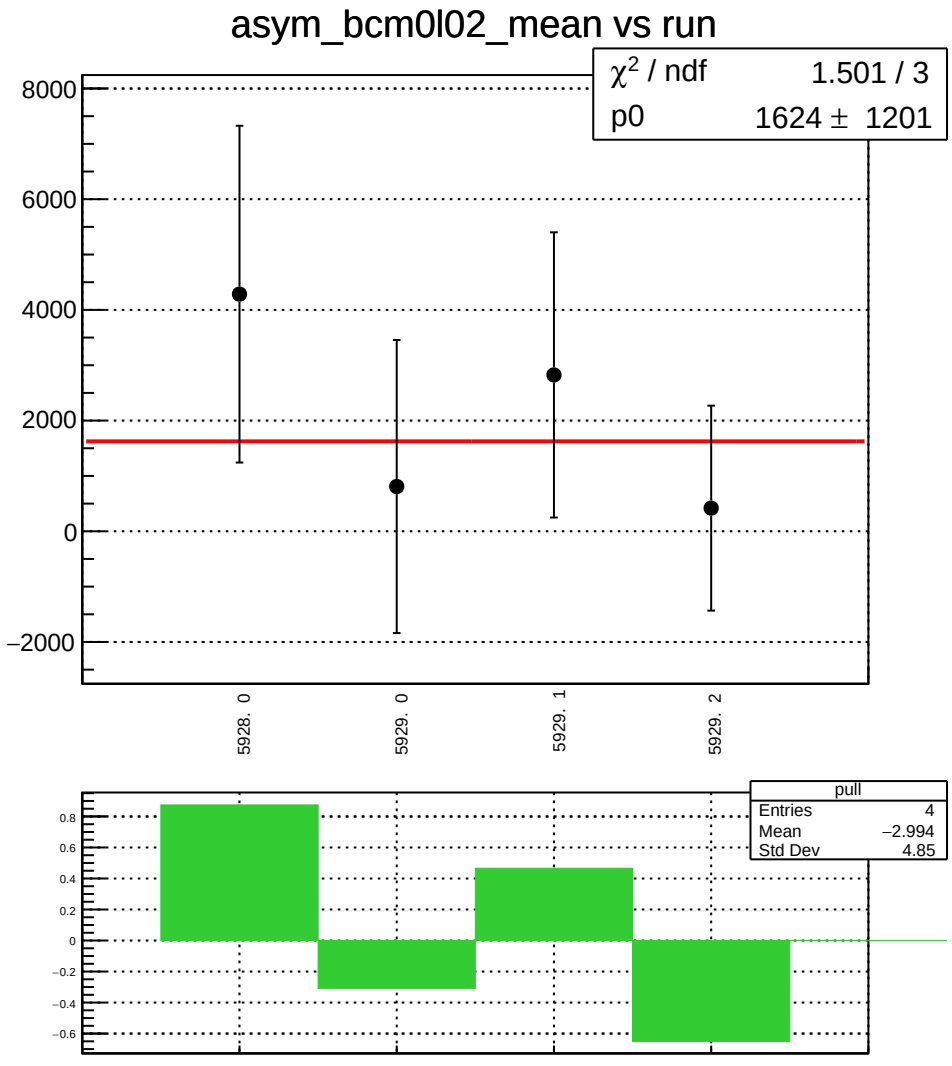

asym_cav4cQ_rms vs run
χ² / ndf 643.6 / 3
p0 223.8 ± 0.7621
270
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

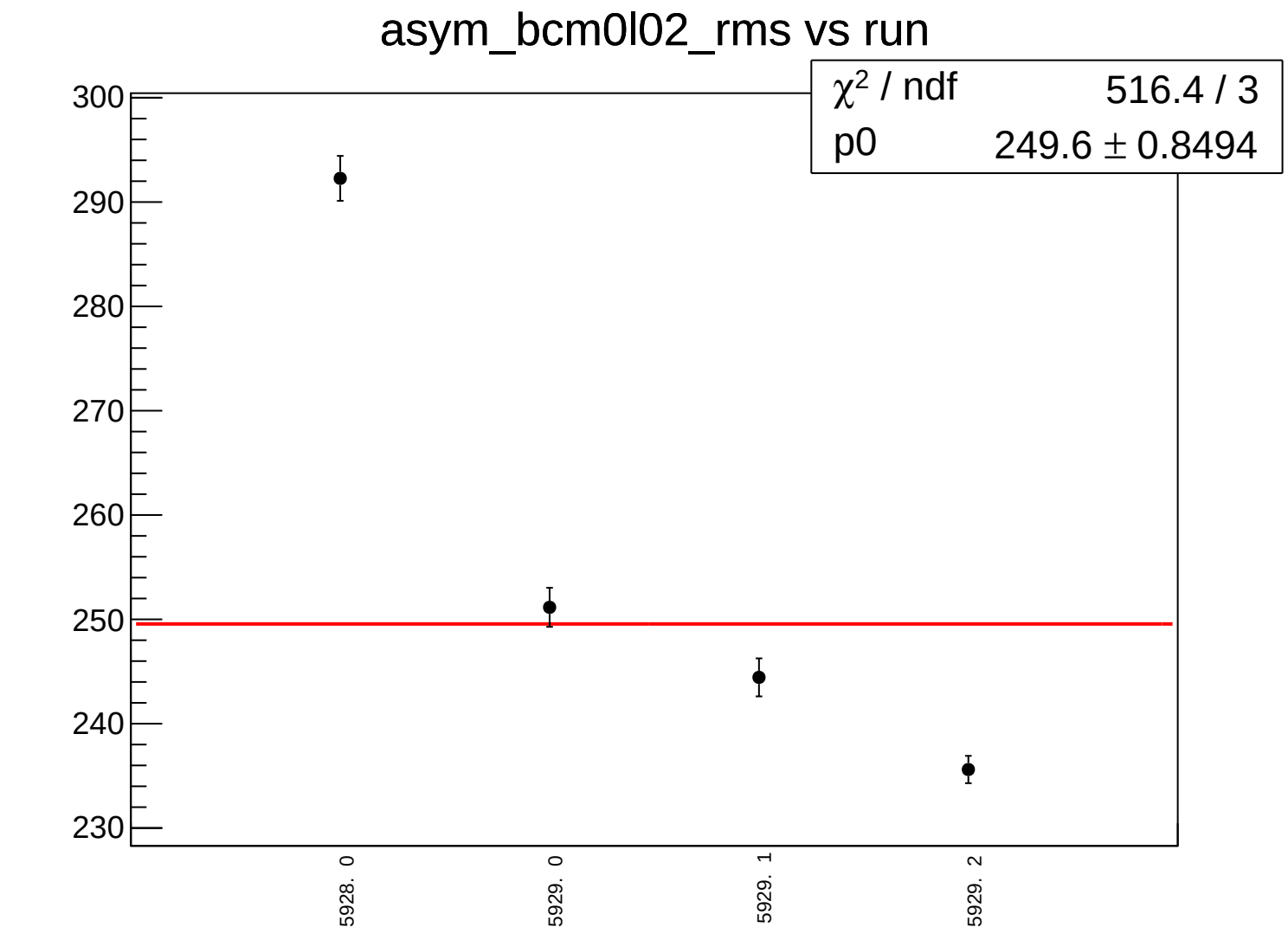

asym_cav4dQ_mean vs run
χ² / ndf 0.6163 / 3
p0 −424.6 ± 1771
6000
4000
2000
0
−2000
−4000
−6000
5928. 0
5929. 0
5929. 1
5929. 2

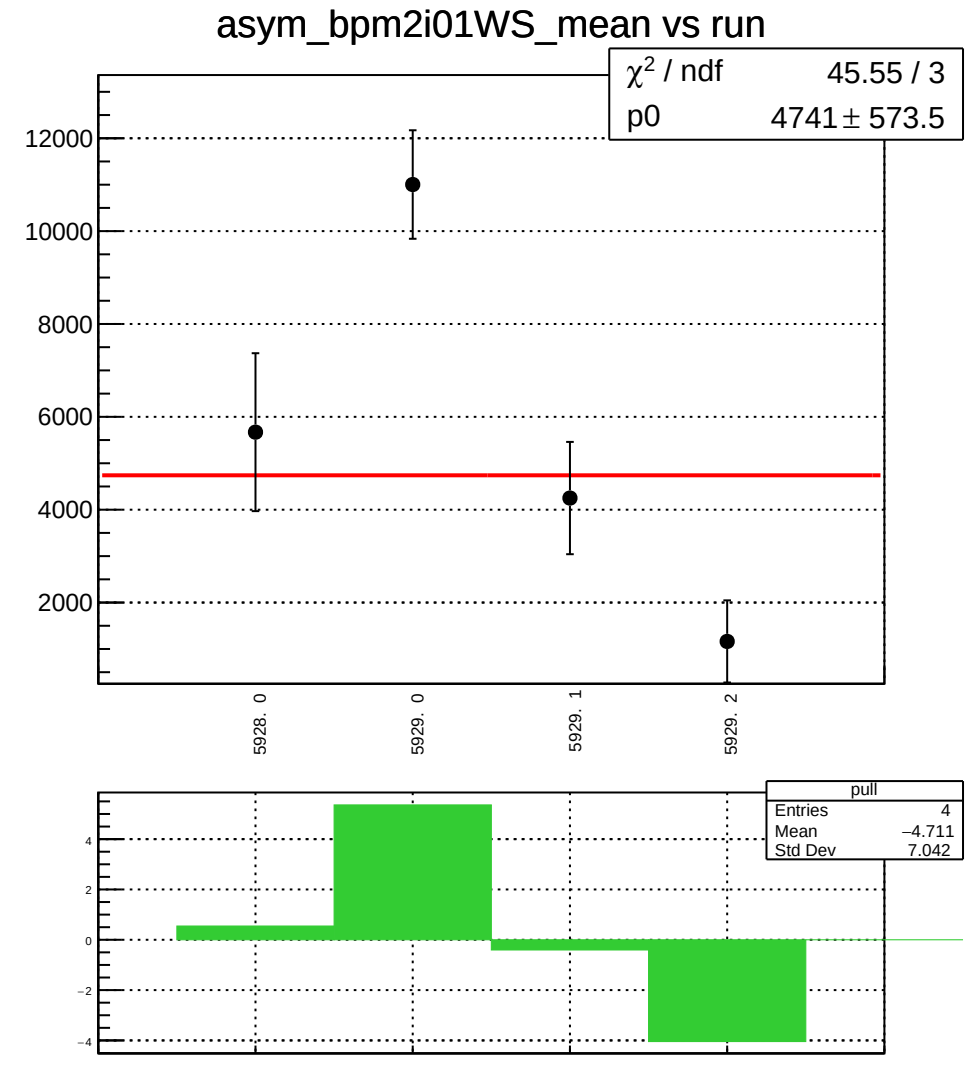

pull
Entries 4
Mean −2.561
Std Dev 4.469
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

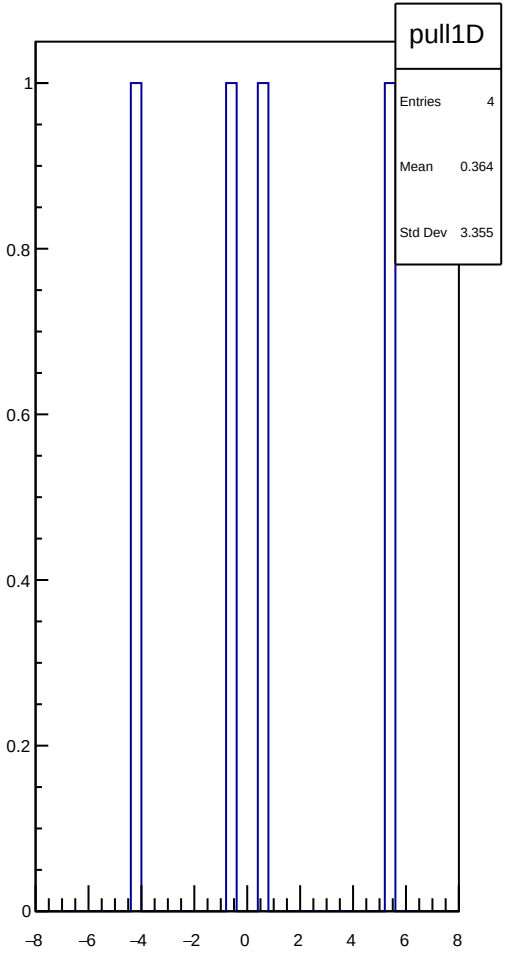

pull1D
Entries 4
Mean 0.03015
Std Dev 0.3913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

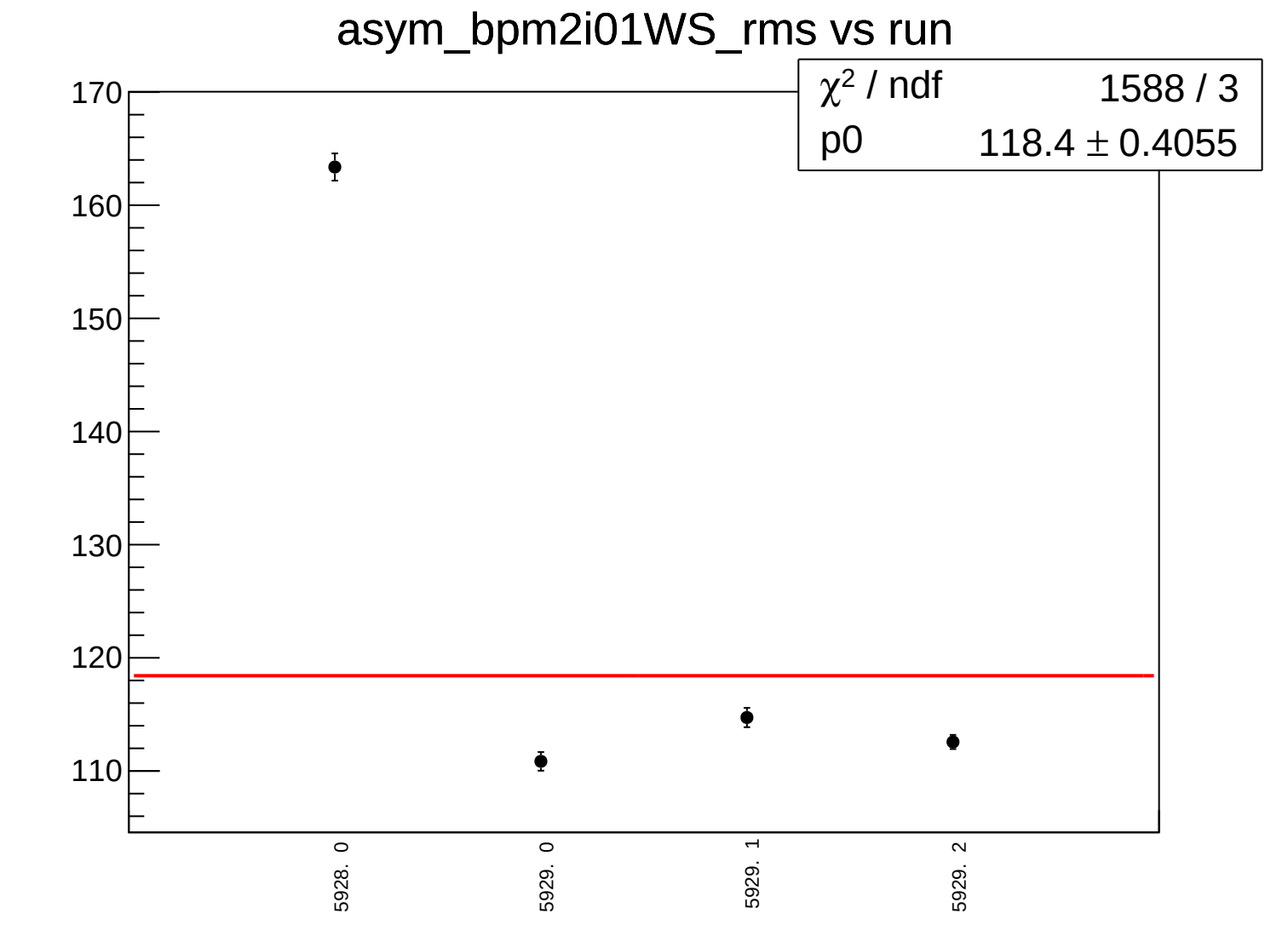

asym_cav4dQ_rms vs run
χ² / ndf 73.9 / 3
p0 369 ± 1.253
395
390
385
380
375
370
365
360
355
5928. 0
5929. 0
5929. 1
5929. 2

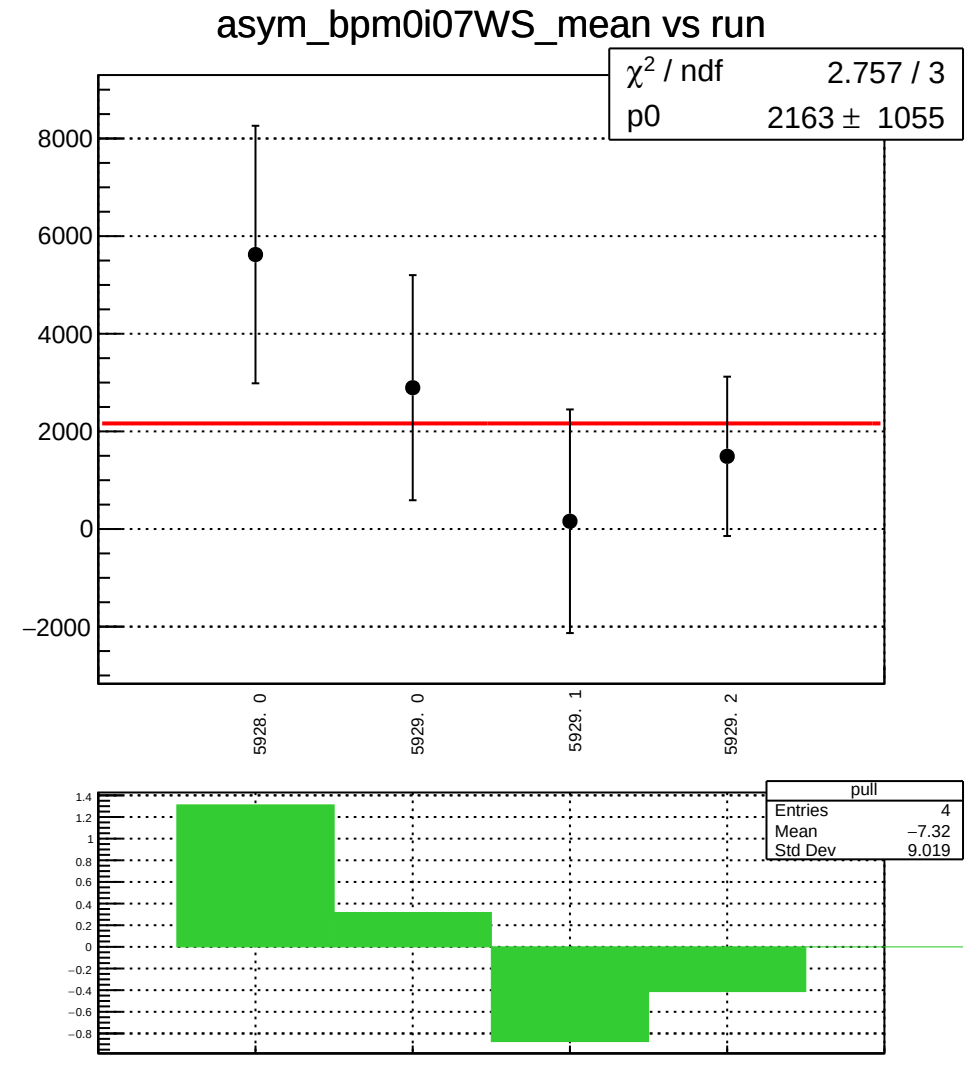

asym_bcm0l02_mean vs run
χ² / ndf 1.501 / 3
p0 1624 ± 1201
8000
6000
4000
2000
0
−2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.994
Std Dev 4.85
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.09519
Std Dev 0.6051
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

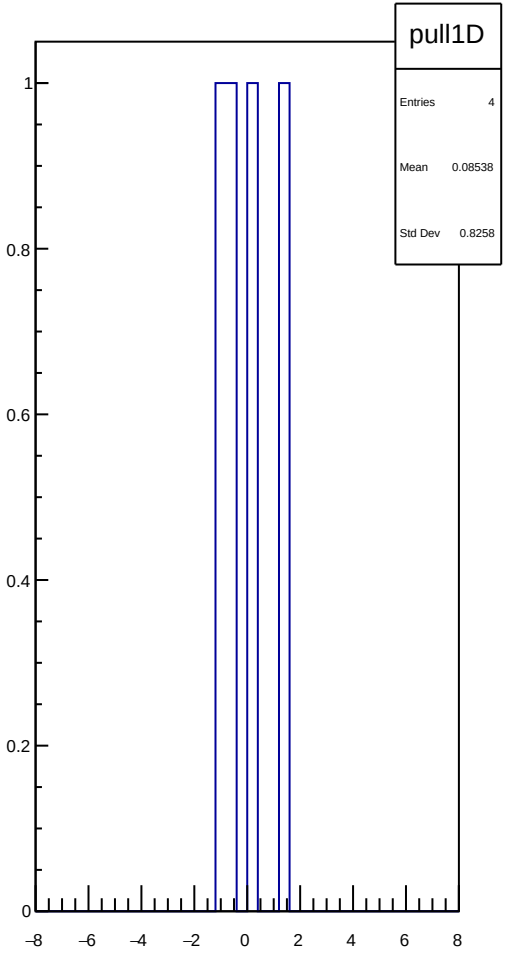

asym_bcm0l02_rms vs run
χ² / ndf 516.4 / 3
p0 249.6 ± 0.8494
300
290
280
270
260
250
240
230
5928. 0
5929. 0
5929. 1
5929. 2

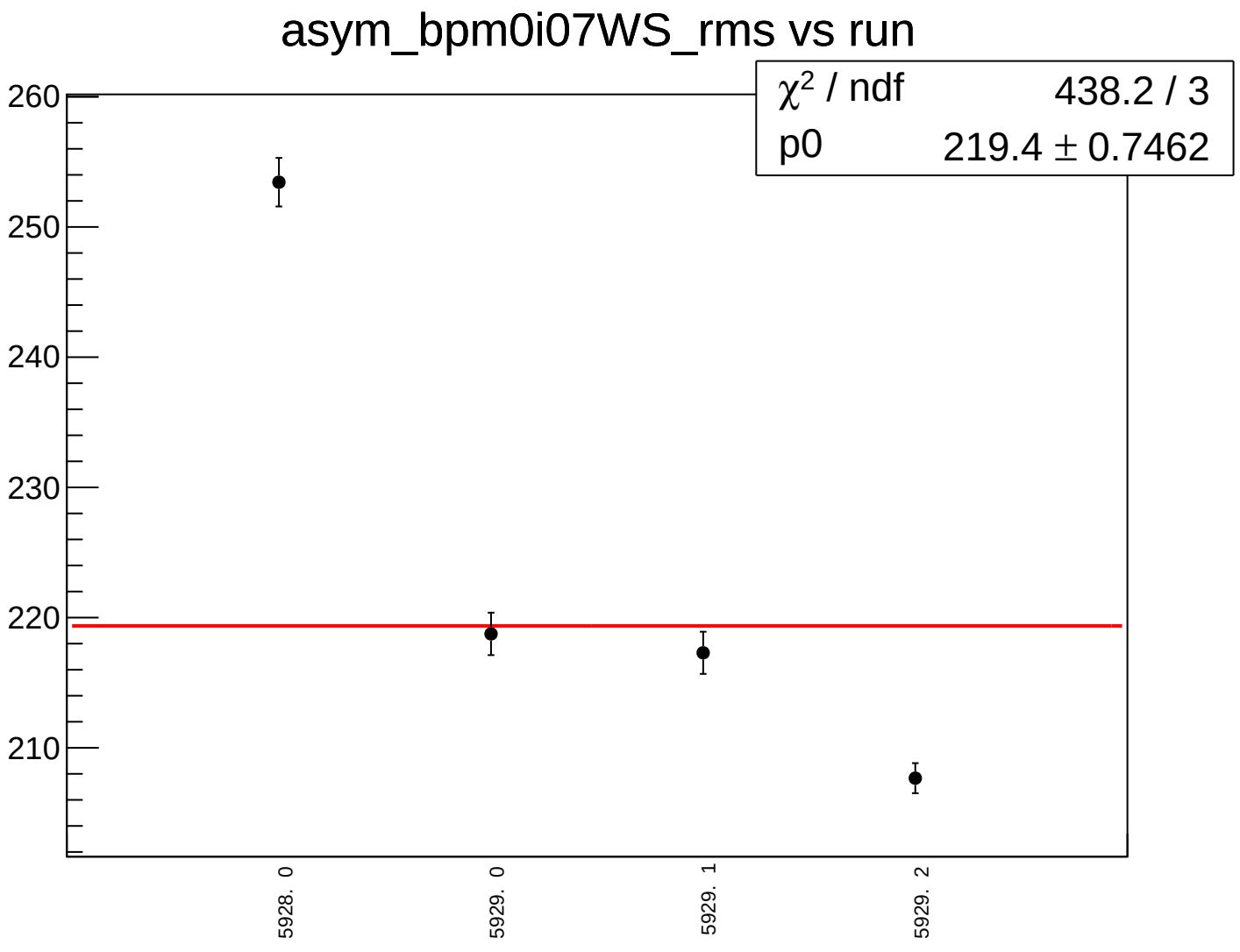

asym_bpm2i01WS_mean vs run
χ² / ndf 45.55 / 3
p0 4741 ± 573.5
12000
10000
8000
6000
4000
2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.711
Std Dev 7.042
4
2
0
−2
−4

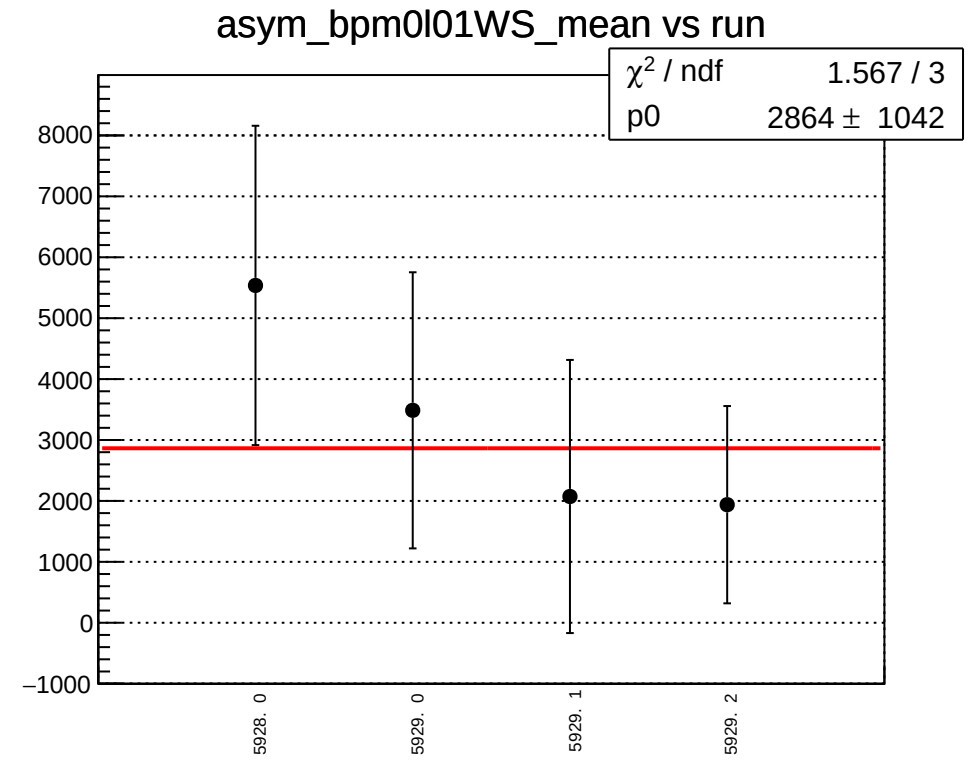

pull1D
Entries 4
Mean 0.364
Std Dev 3.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

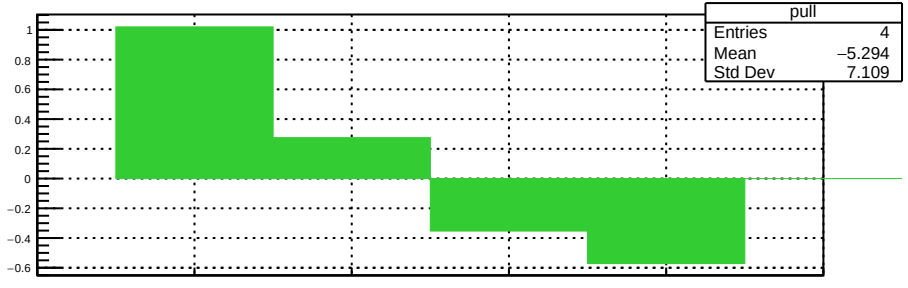

asym_bpm2i01WS_rms vs run
χ² / ndf 1588 / 3
p0 118.4 ± 0.4055
170
160
150
140
130
120
110
5928. 0
5929. 0
5929. 1
5929. 2

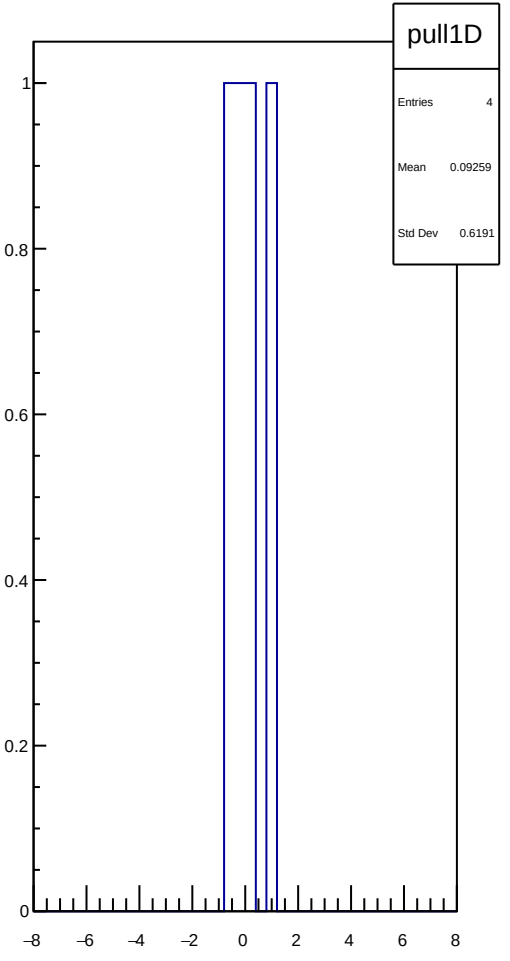

asym_bpm0i07WS_mean vs run
χ² / ndf 2.757 / 3
p0 2163 ± 1055
8000
6000
4000
2000
0
−2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.32
Std Dev 9.019
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

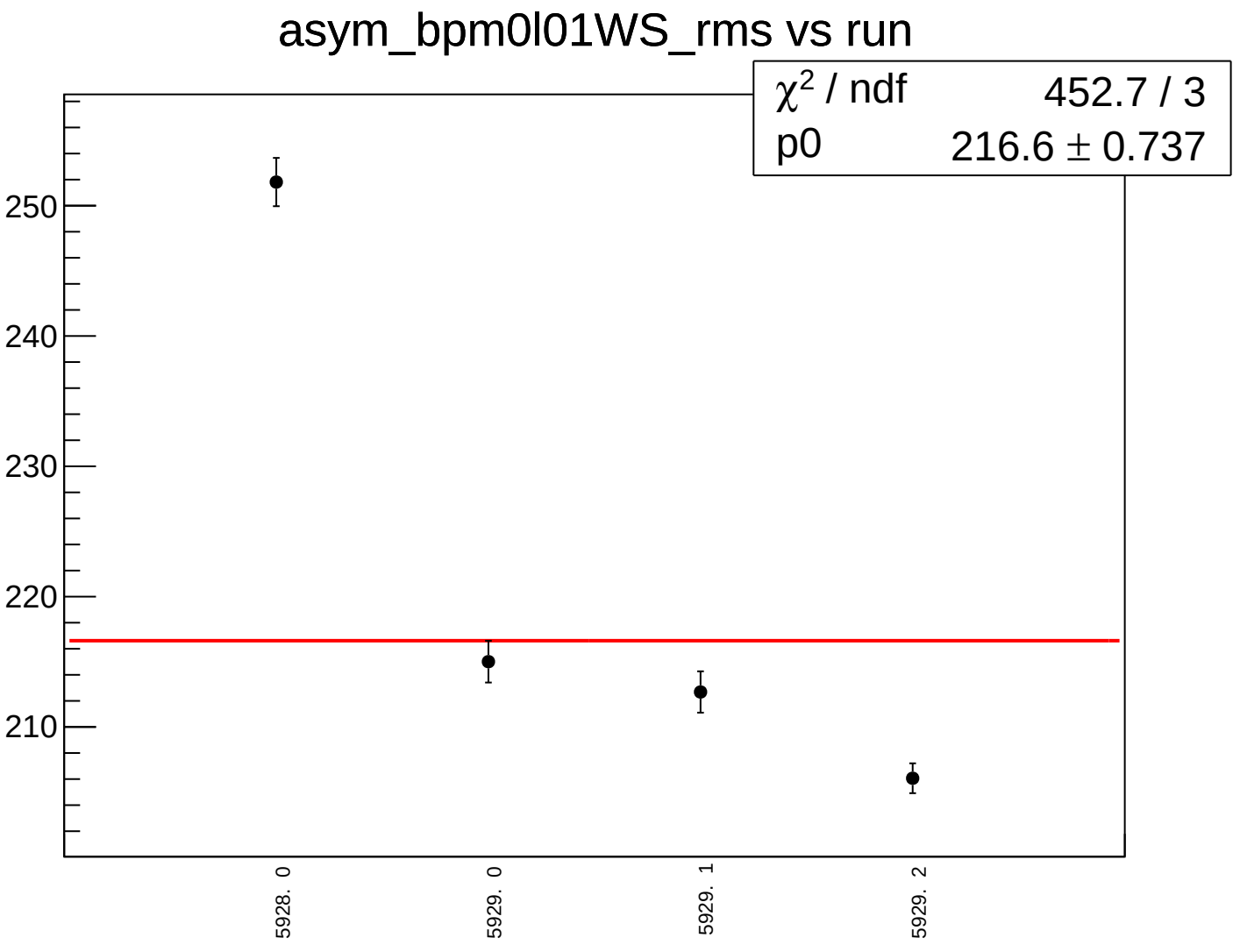

pull1D
Entries 4
Mean 0.08538
Std Dev 0.8258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

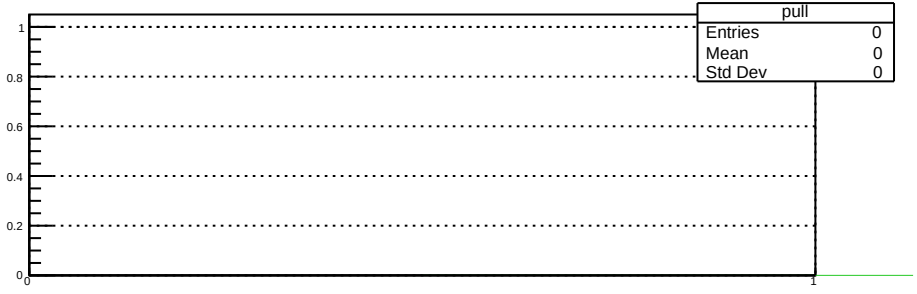

asym_bpm0i07WS_rms vs run
χ² / ndf 438.2 / 3
p0 219.4 ± 0.7462
260
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

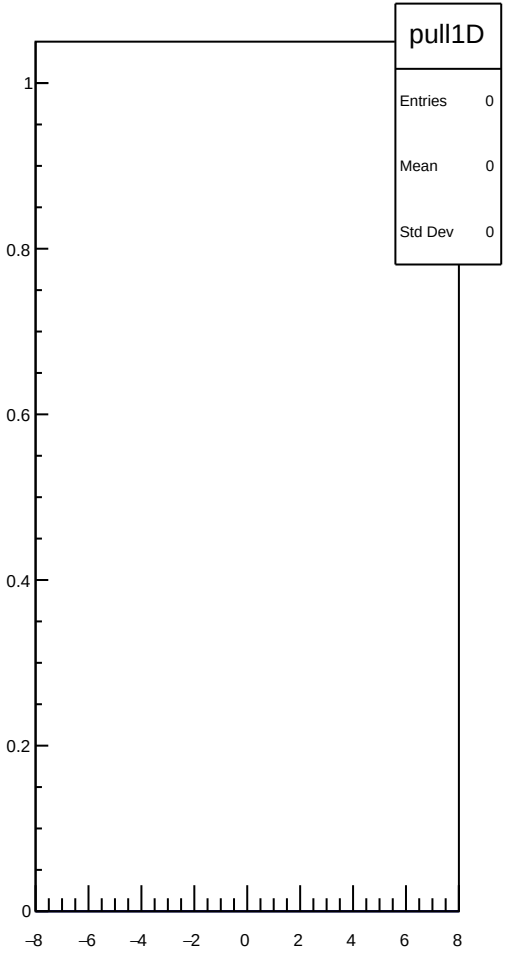

asym_bpm0l01WS_mean vs run
χ² / ndf 1.567 / 3
p0 2864 ± 1042
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000
5928. 0
5929. 0
5929. 1
5929. 2

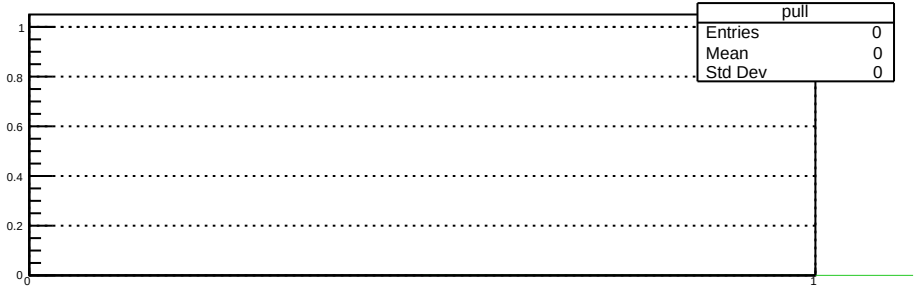

pull
Entries 4
Mean −5.294
Std Dev 7.109
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

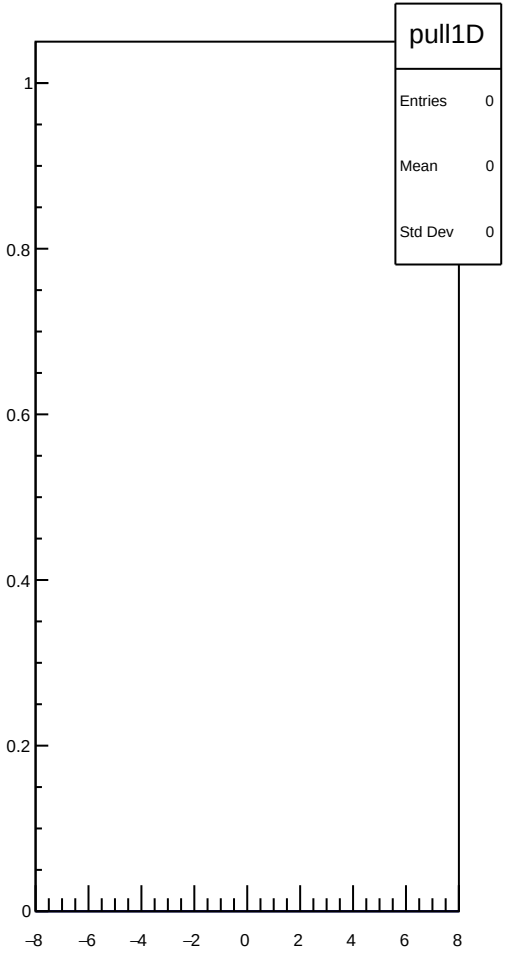

pull1D
Entries 4
Mean 0.09259
Std Dev 0.6191
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

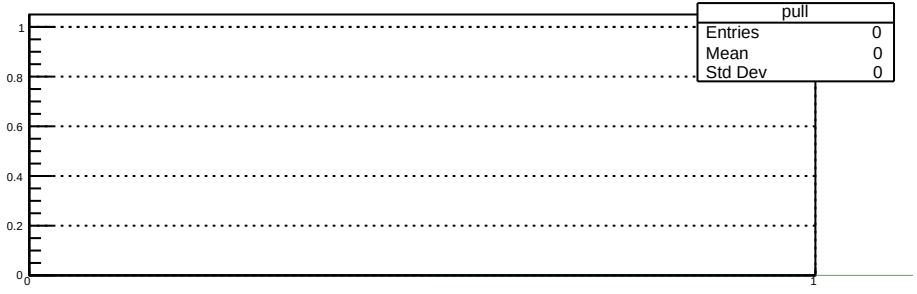

asym_bpm0l01WS_rms vs run
χ² / ndf 452.7 / 3
p0 216.6 ± 0.737
250
240
230
220
210
5928. 0
5929. 0
5929. 1
5929. 2

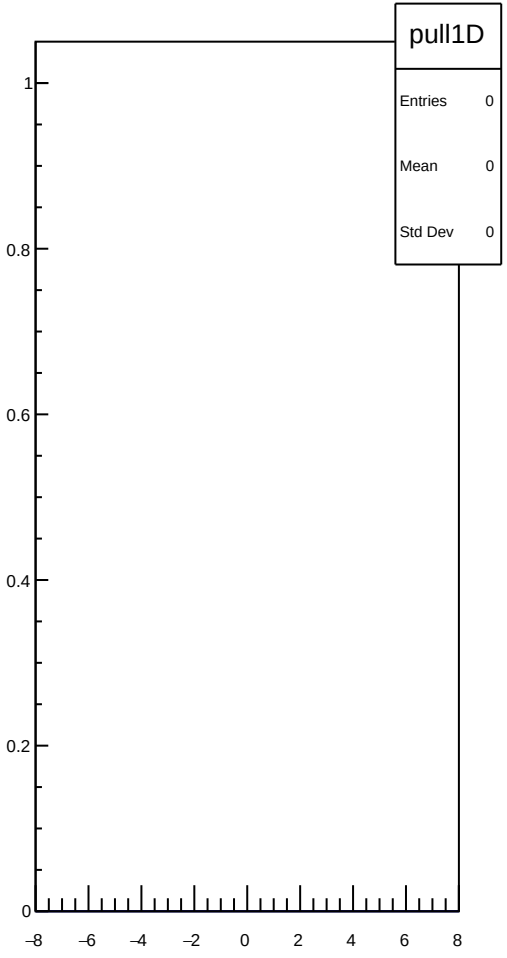

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

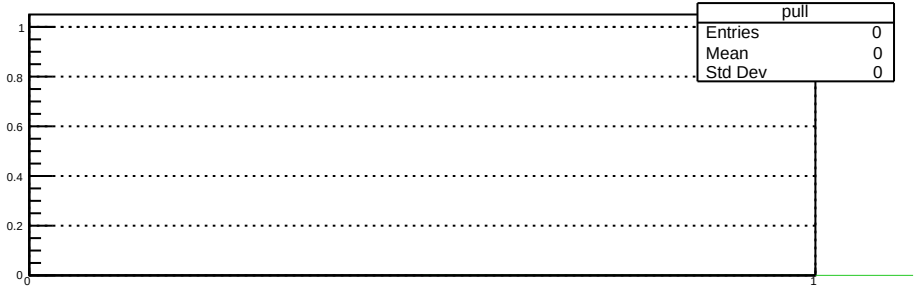

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

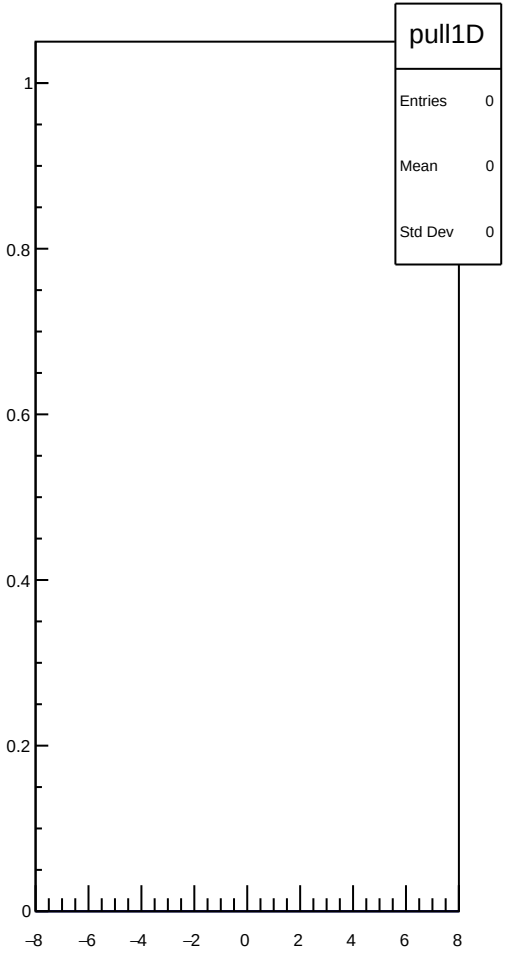

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

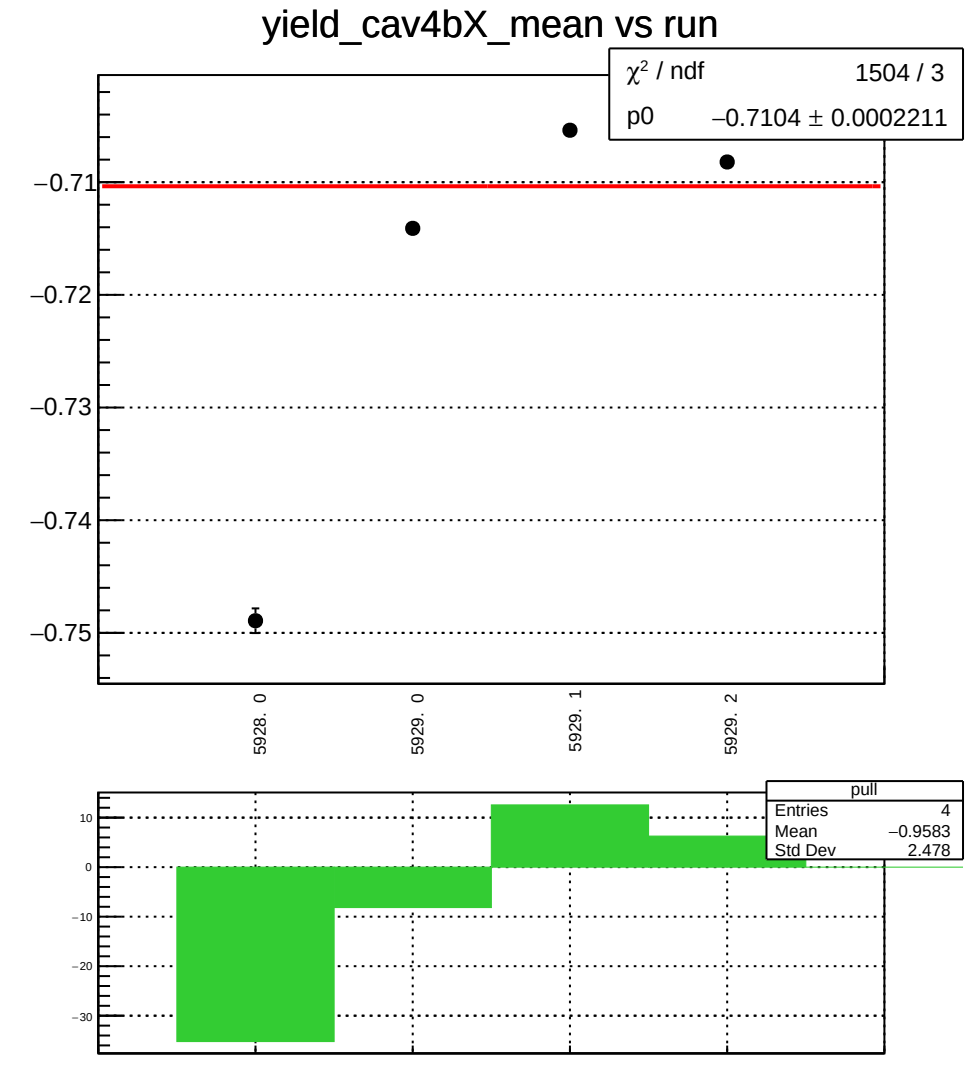

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

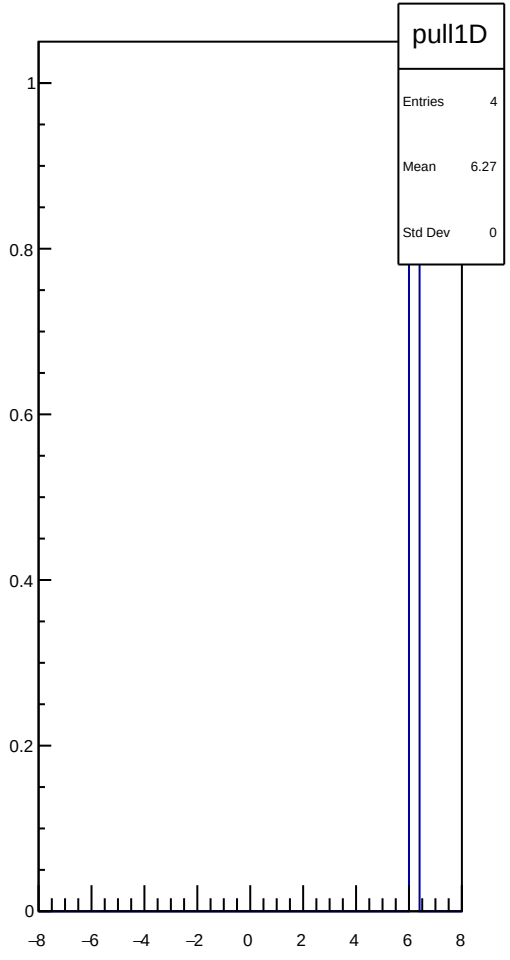

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

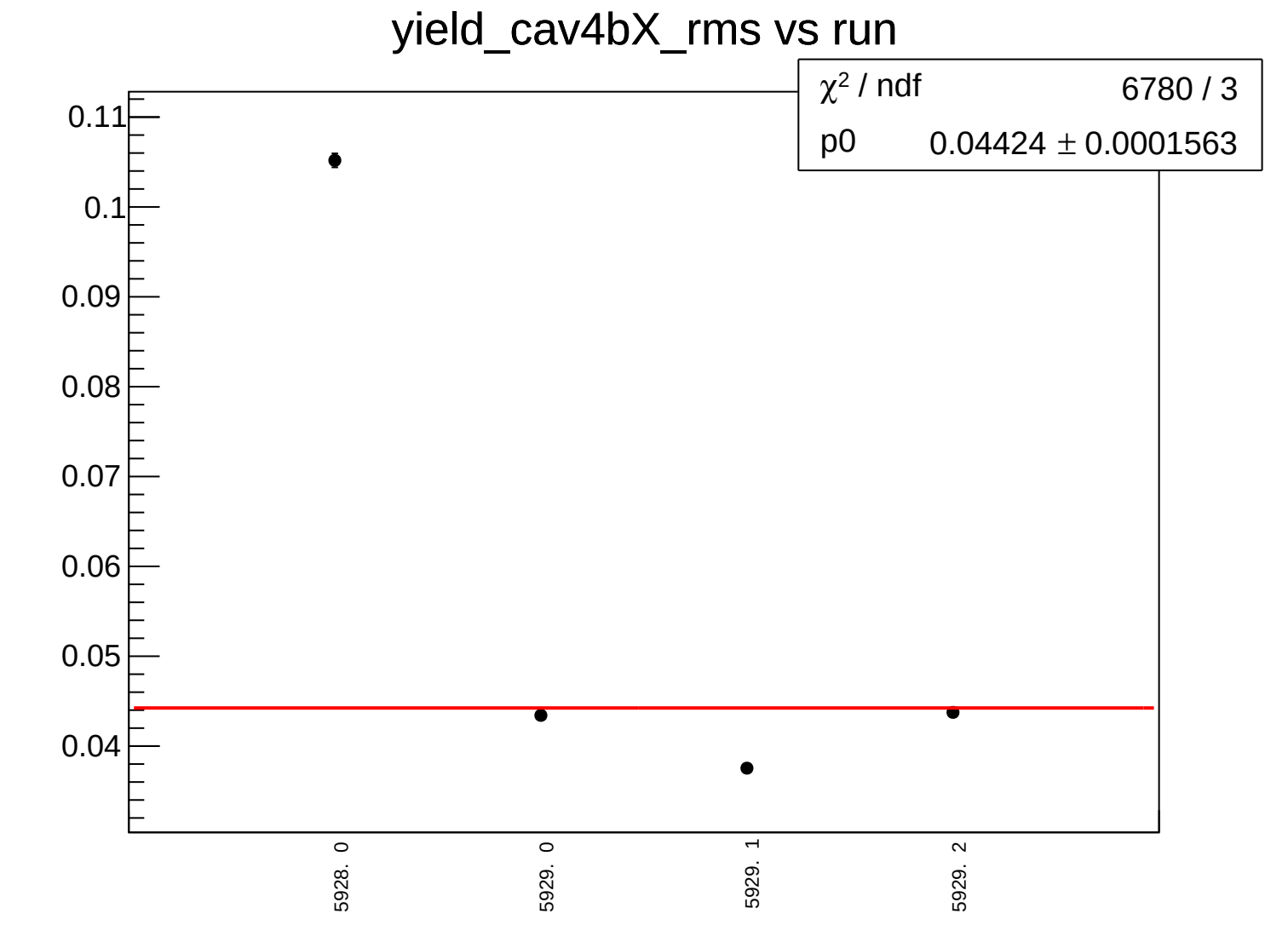

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

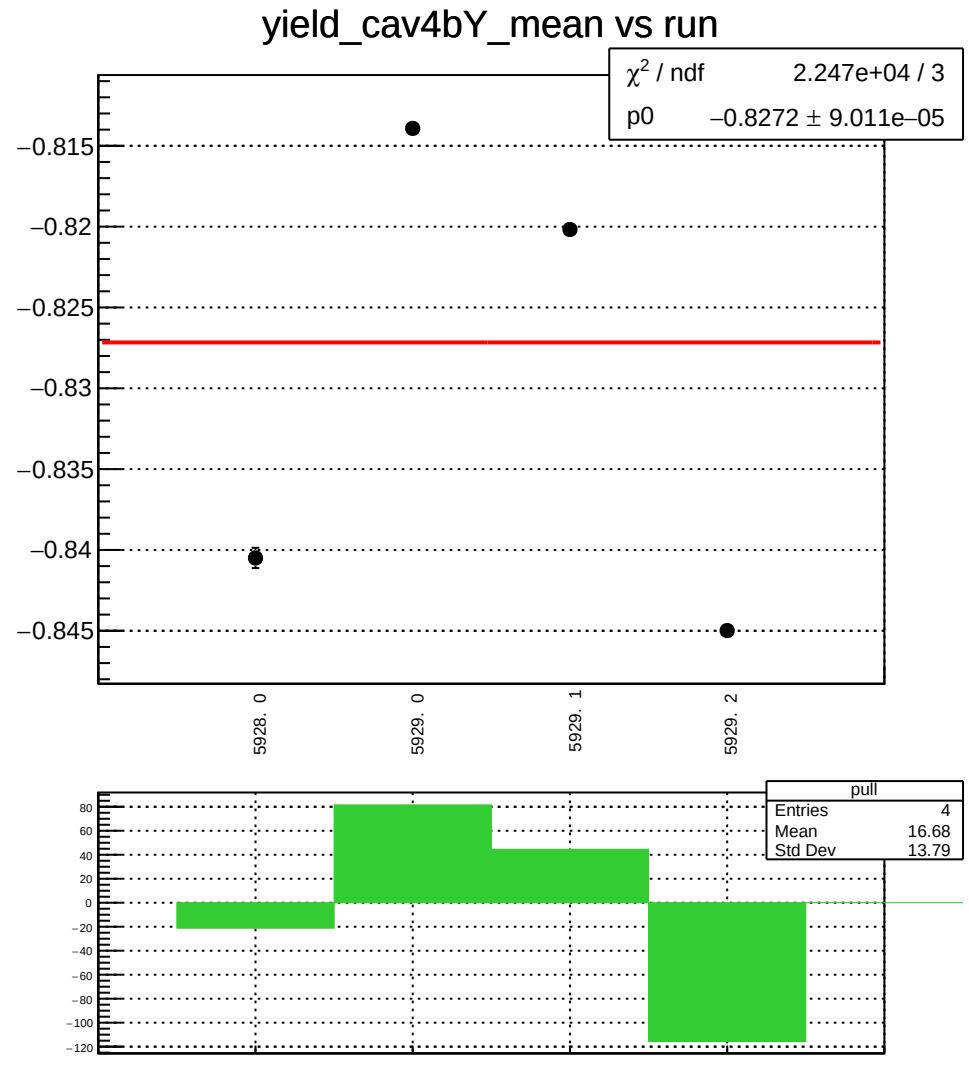

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

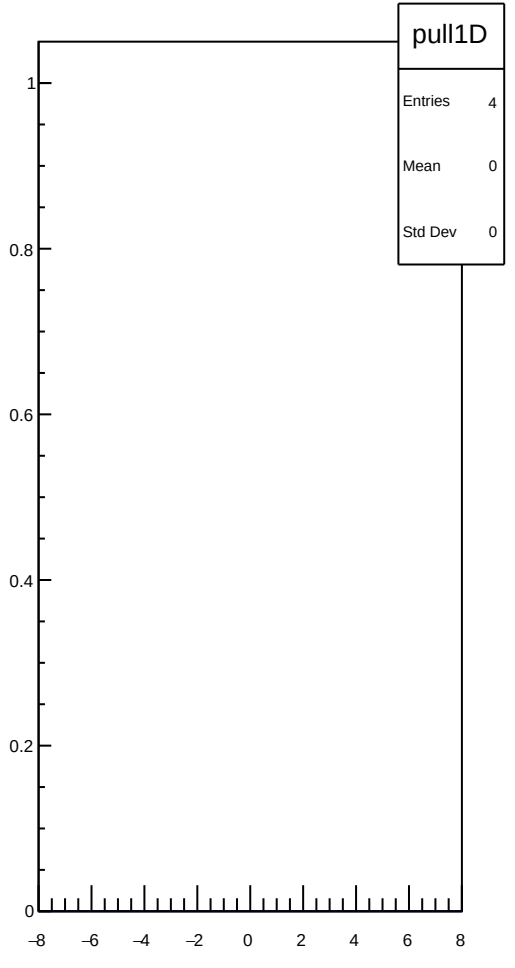

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

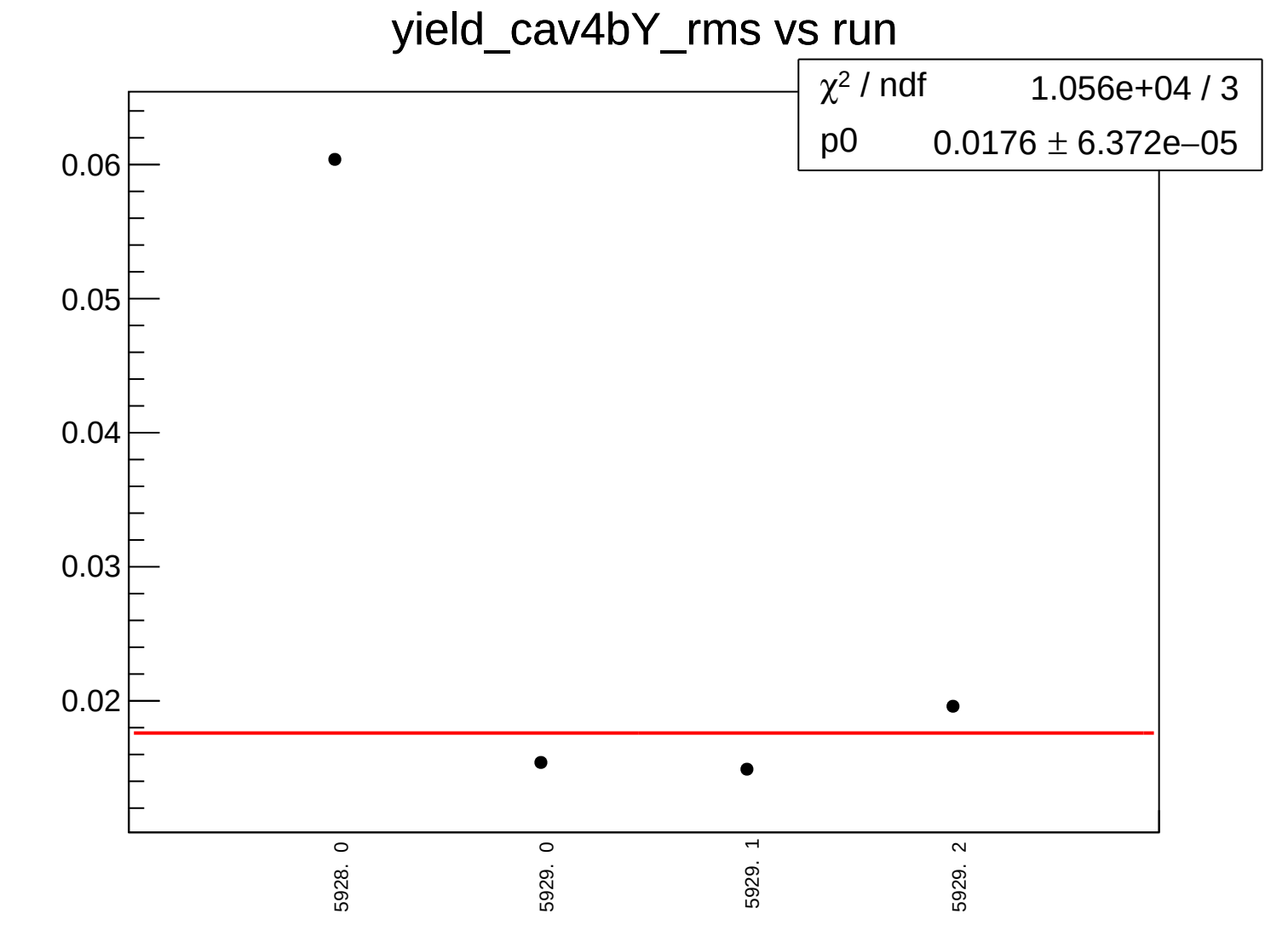

yield_cav4bX_mean vs run
χ² / ndf 1504 / 3
p0 −0.7104 ± 0.0002211
−0.71
−0.72
−0.73
−0.74
−0.75
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.9583
Std Dev 2.478
10
0
−10
−20
−30

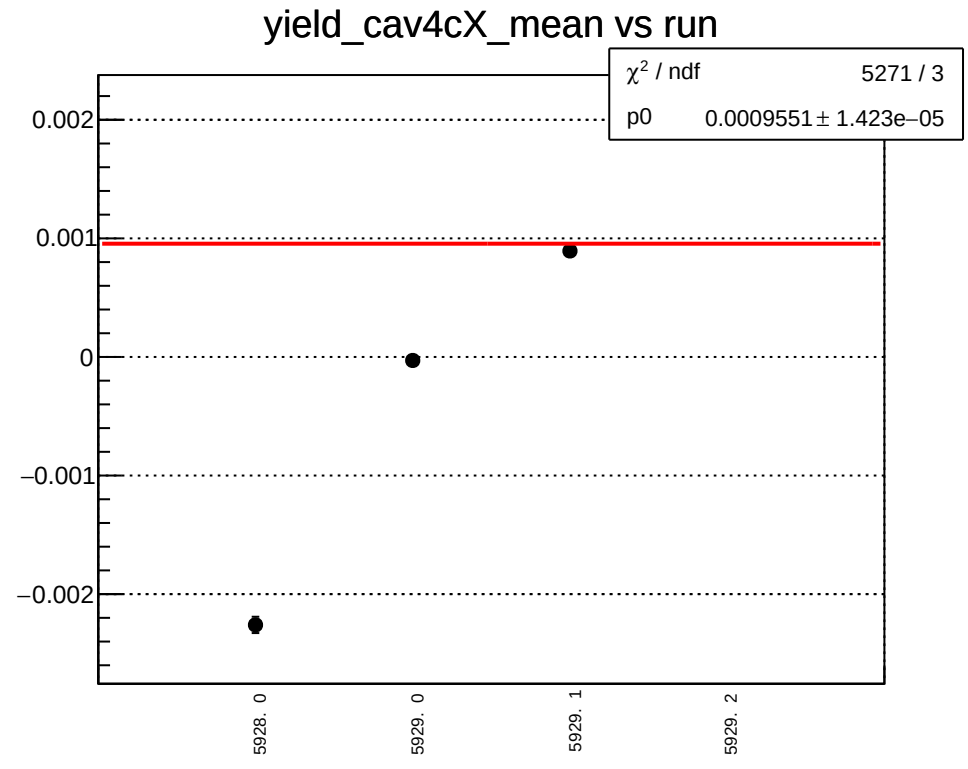

pull1D
Entries 4
Mean 6.27
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

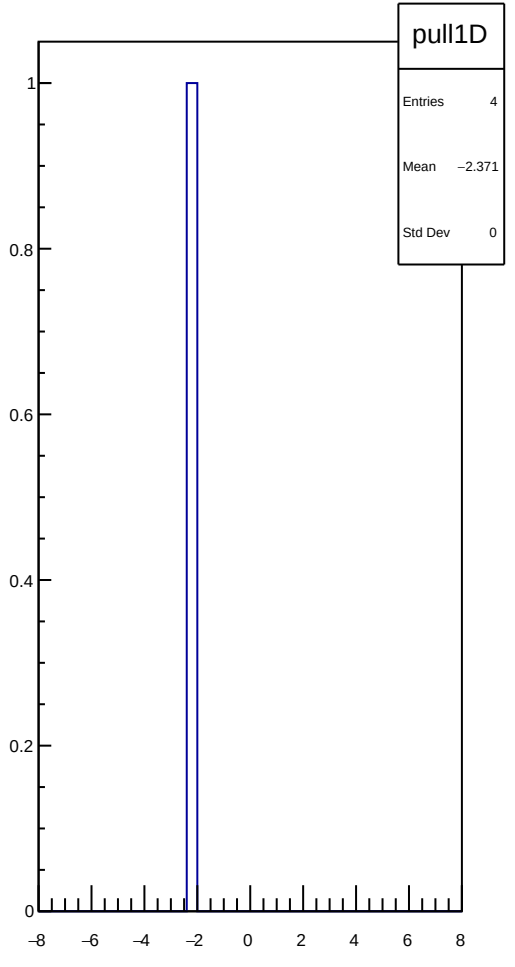

yield_cav4bX_rms vs run
χ² / ndf 6780 / 3
p0 0.04424 ± 0.0001563
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
5928. 0
5929. 0
5929. 1
5929. 2

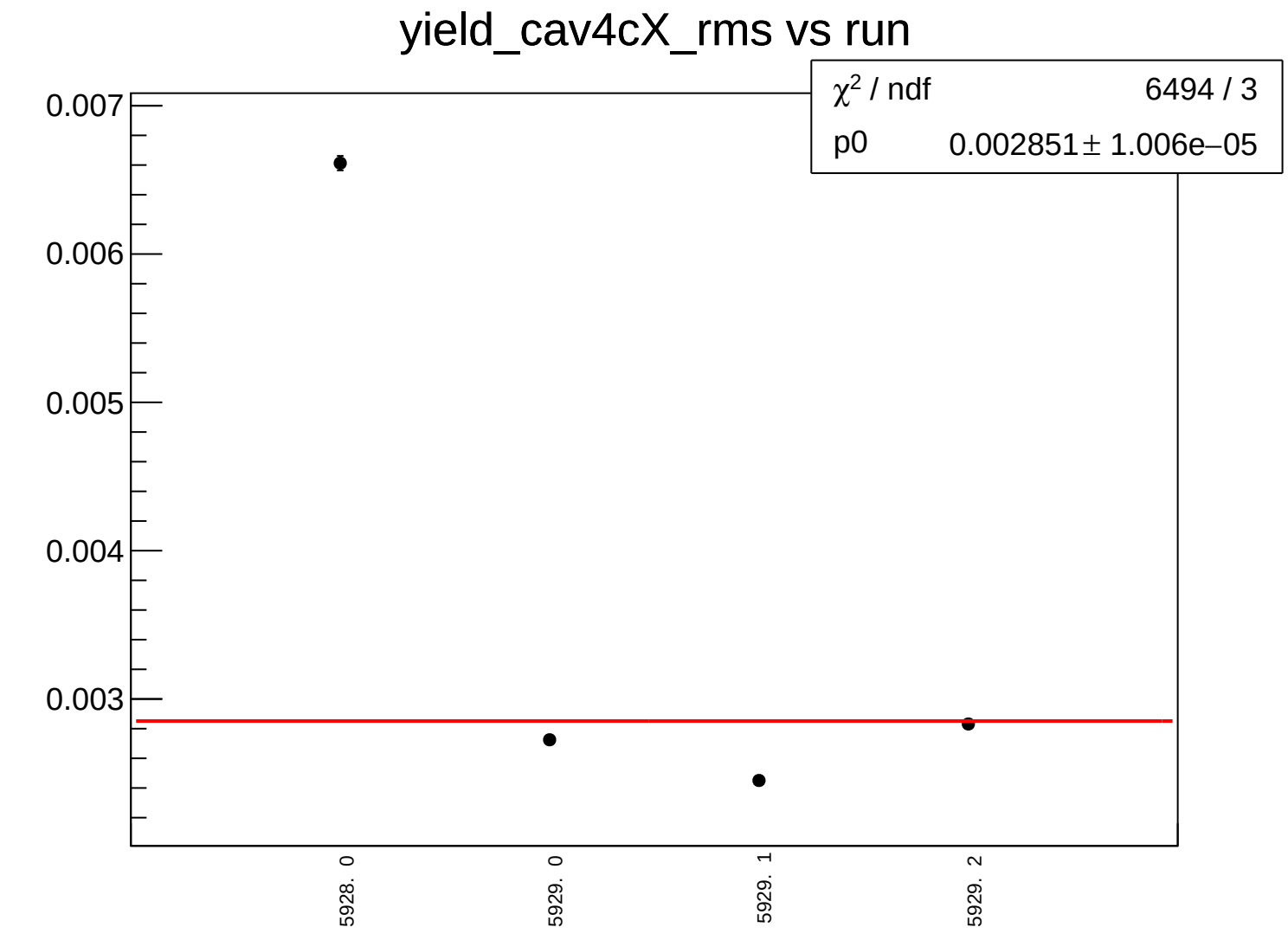

yield_cav4bY_mean vs run
χ² / ndf 2.247e+04 / 3
p0 −0.8272 ± 9.011e−05
−0.815
−0.82
−0.825
−0.83
−0.835
−0.84
−0.845
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 16.68
Std Dev 13.79
80
60
40
20
0
−20
−40
−60
−80
−100
−120

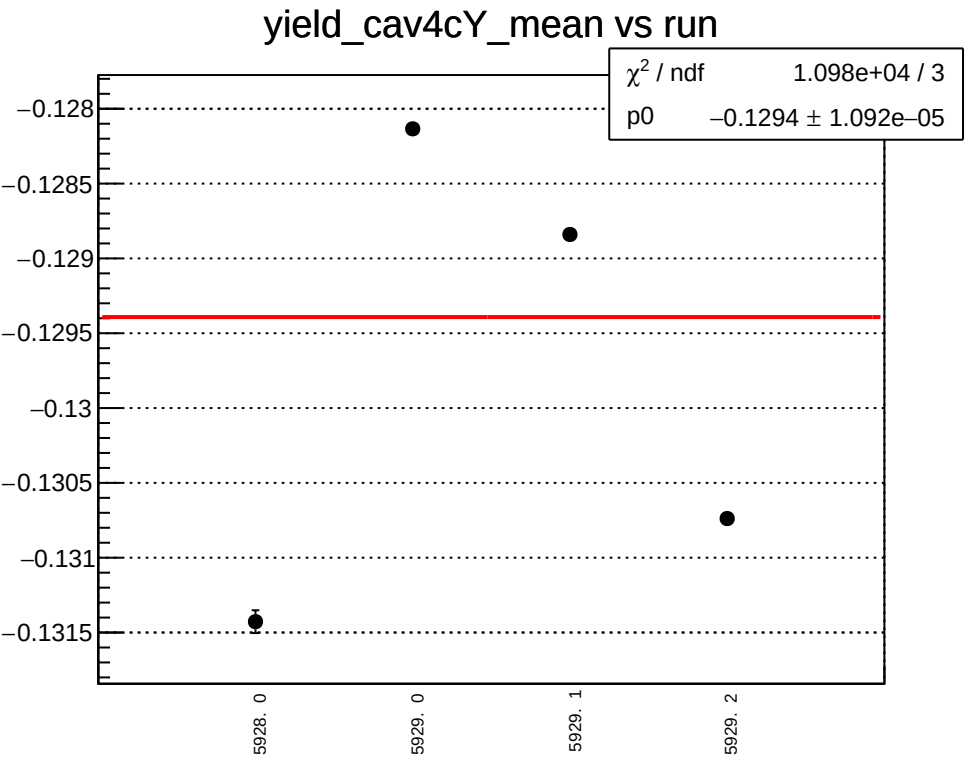

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

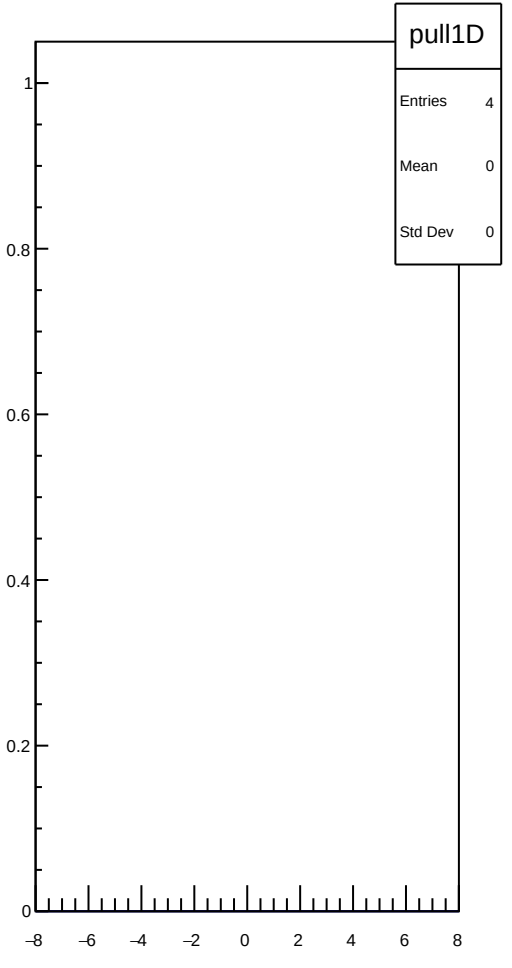

yield_cav4bY_rms vs run
χ² / ndf 1.056e+04 / 3
p0 0.0176 ± 6.372e−05
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

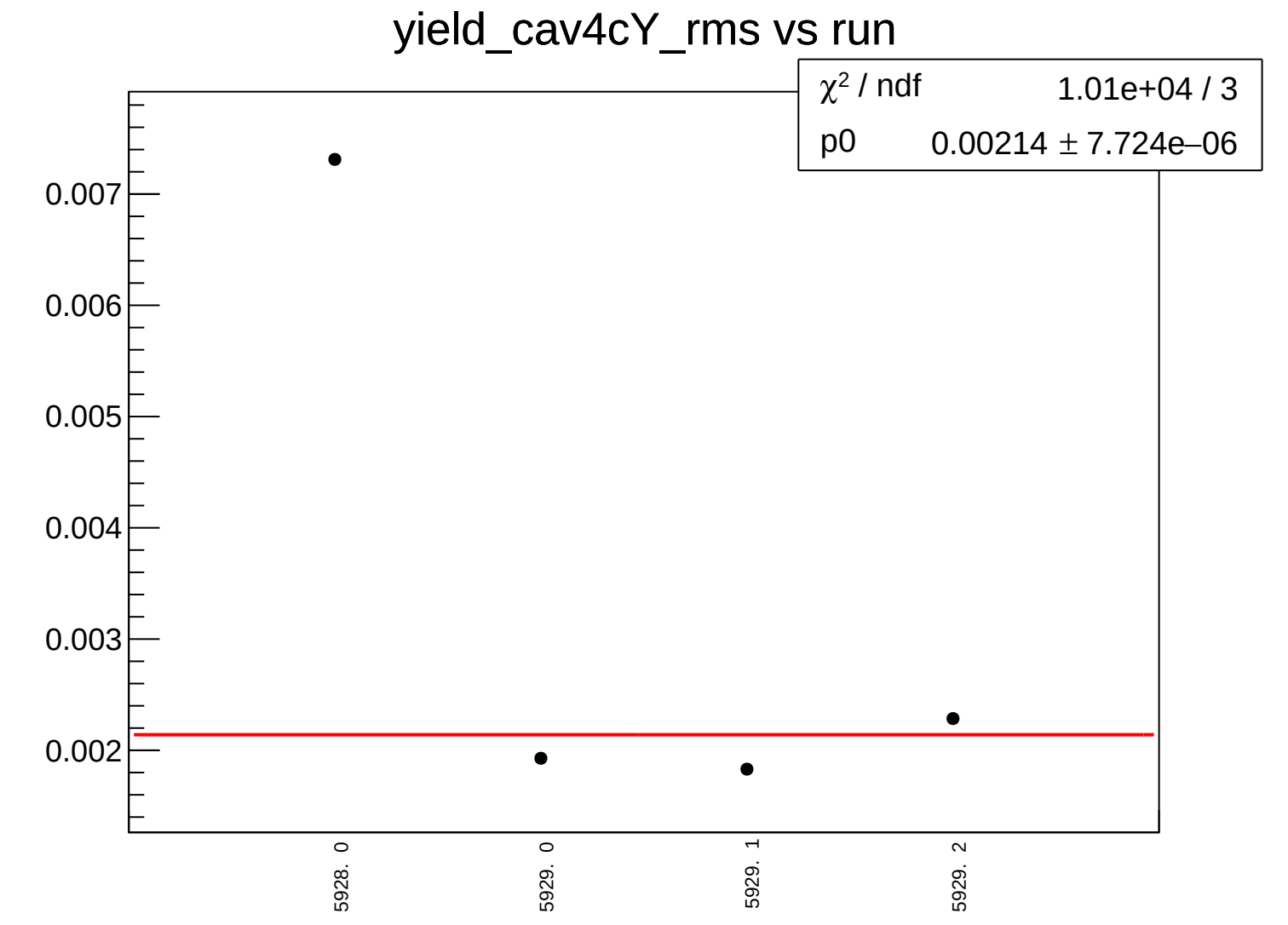

yield_cav4cX_mean vs run
χ² / ndf 5271 / 3
p0 0.0009551 ± 1.423e−05
0.002
0.001
0
−0.001
−0.002
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.821
Std Dev 3.768
40
30
20
10
0
−10
−20
−30
−40
−50

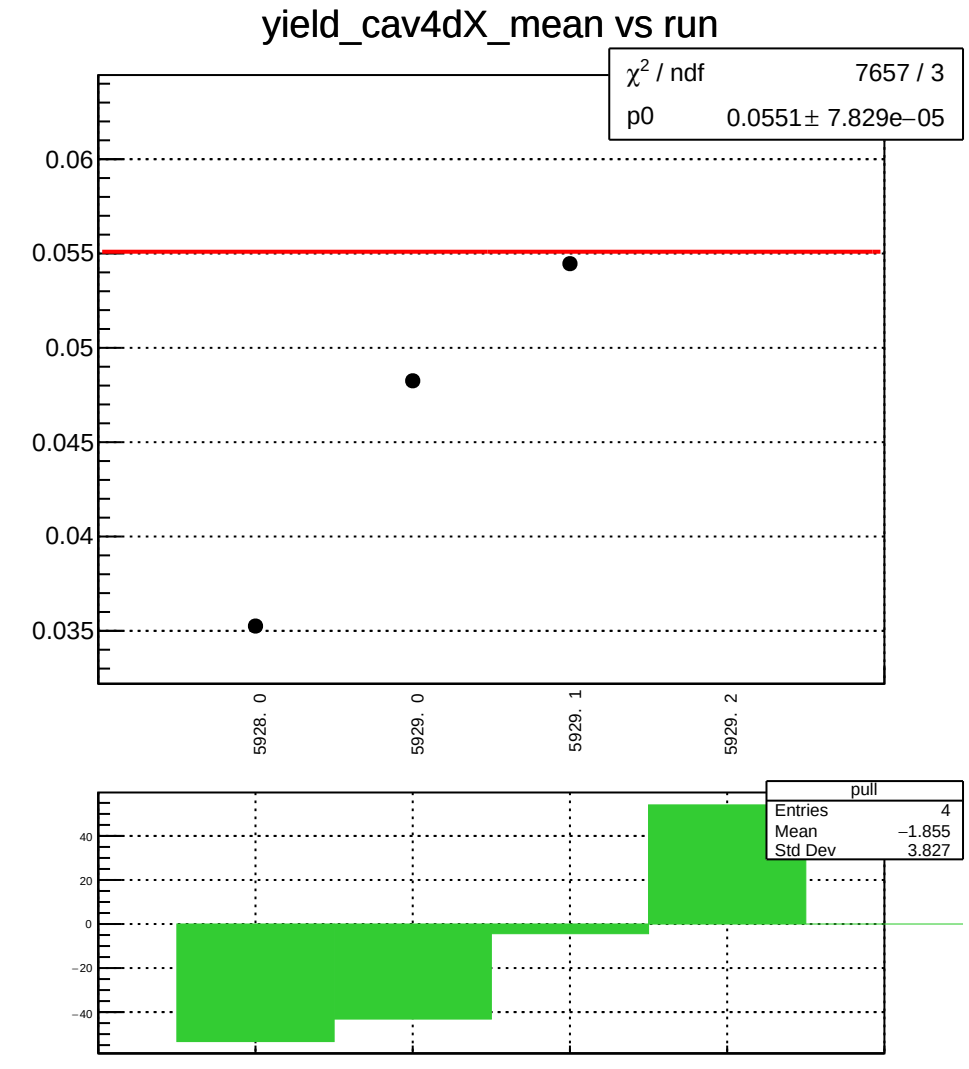

pull1D
Entries 4
Mean −2.371
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

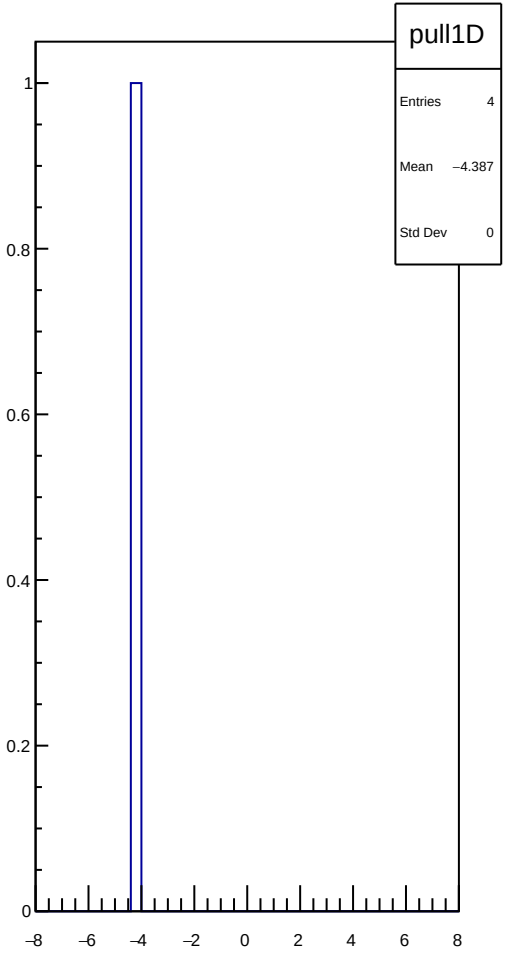

yield_cav4cX_rms vs run
χ² / ndf 6494 / 3
p0 0.002851 ± 1.006e−05
0.007
0.006
0.005
0.004
0.003
5928. 0
5929. 0
5929. 1
5929. 2

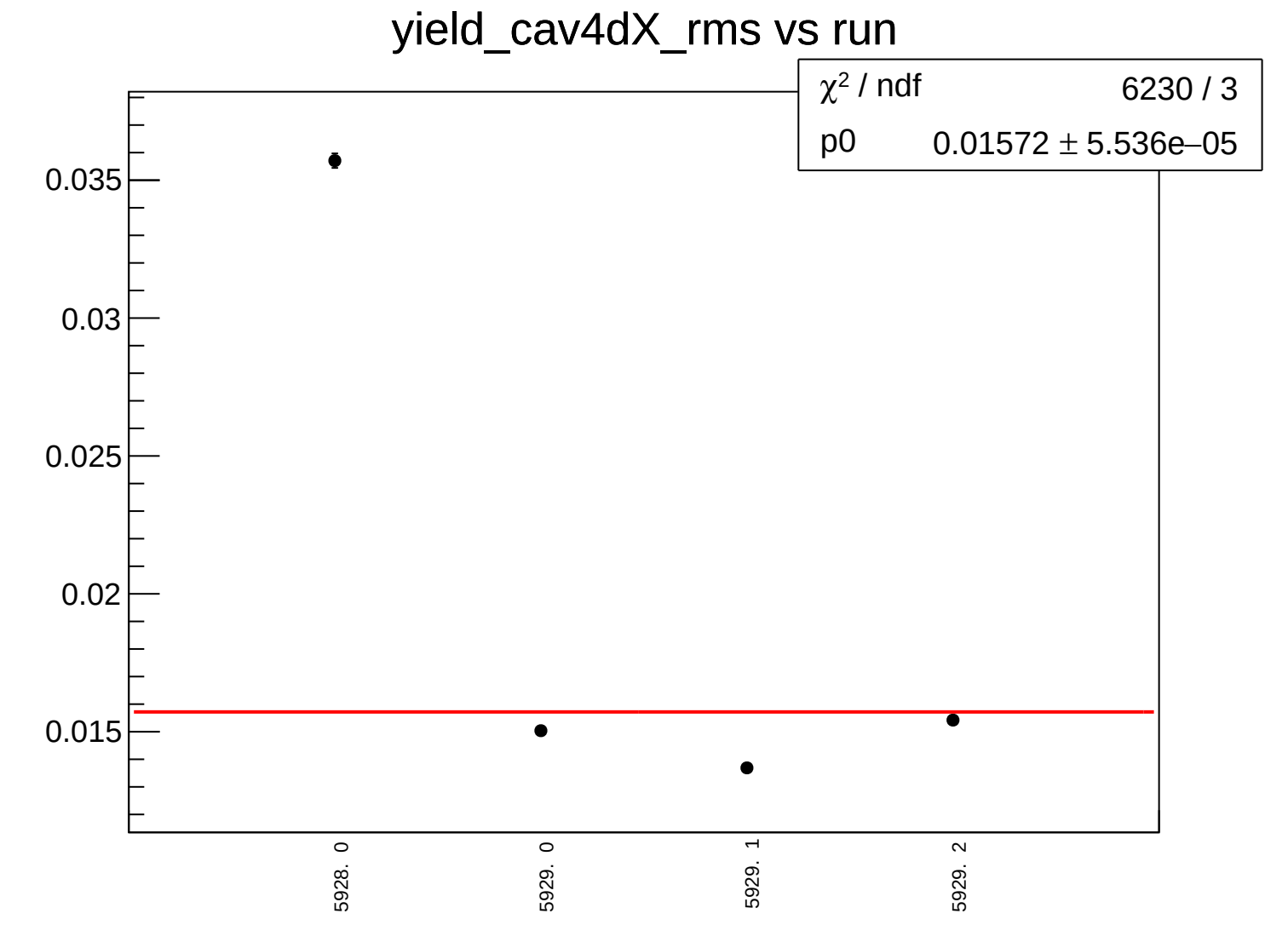

yield_cav4cY_mean vs run
χ² / ndf 1.098e+04 / 3
p0 −0.1294 ± 1.092e−05
−0.128
−0.1285
−0.129
−0.1295
−0.13
−0.1305
−0.131
−0.1315
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.918
Std Dev 6.659
60
40
20
0
−20
−40
−60
−80

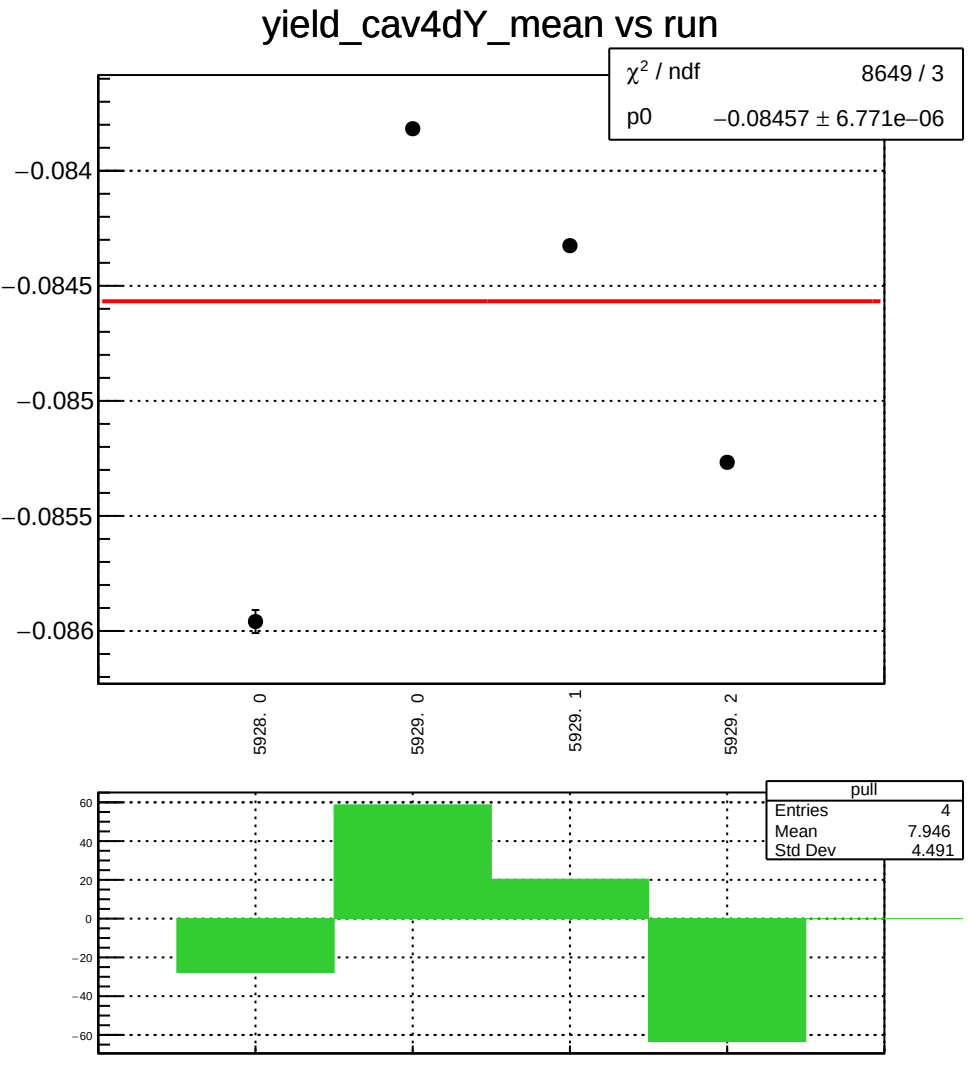

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

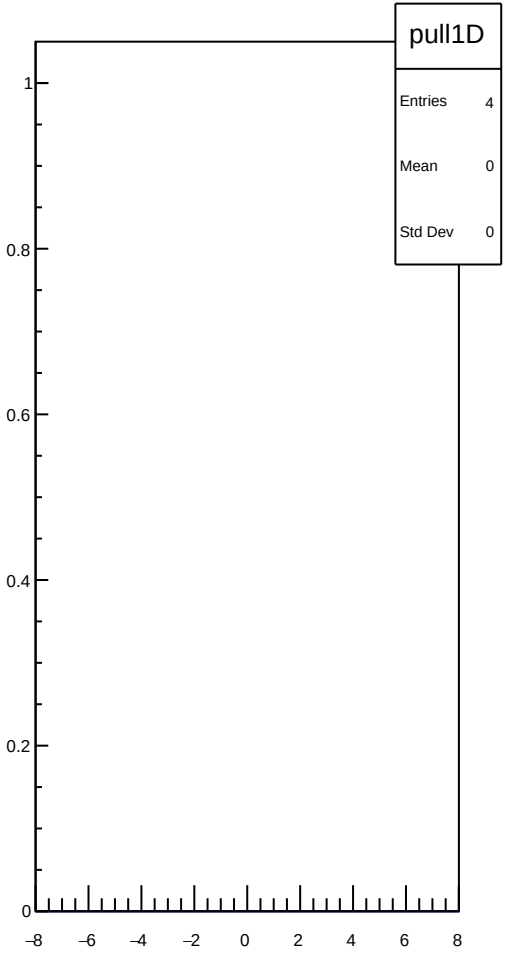

yield_cav4cY_rms vs run
χ² / ndf 1.01e+04 / 3
p0 0.00214 ± 7.724e−06
0.007
0.006
0.005
0.004
0.003
0.002
5928. 0
5929. 0
5929. 1
5929. 2

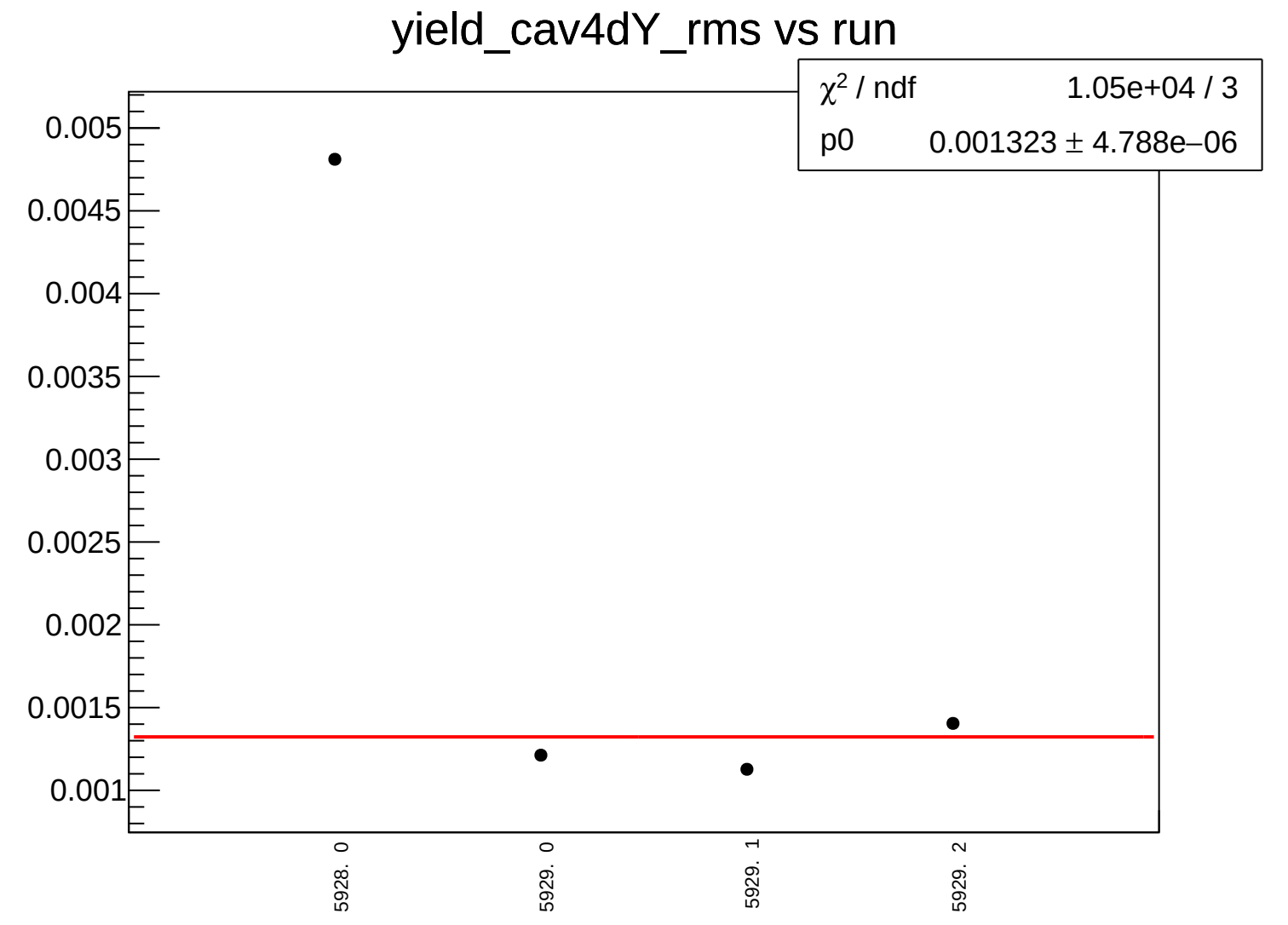

yield_cav4dX_mean vs run
χ² / ndf 7657 / 3
p0 0.0551 ± 7.829e−05
0.06
0.055
0.05
0.045
0.04
0.035
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.855
Std Dev 3.827
40
20
0
−20
−40

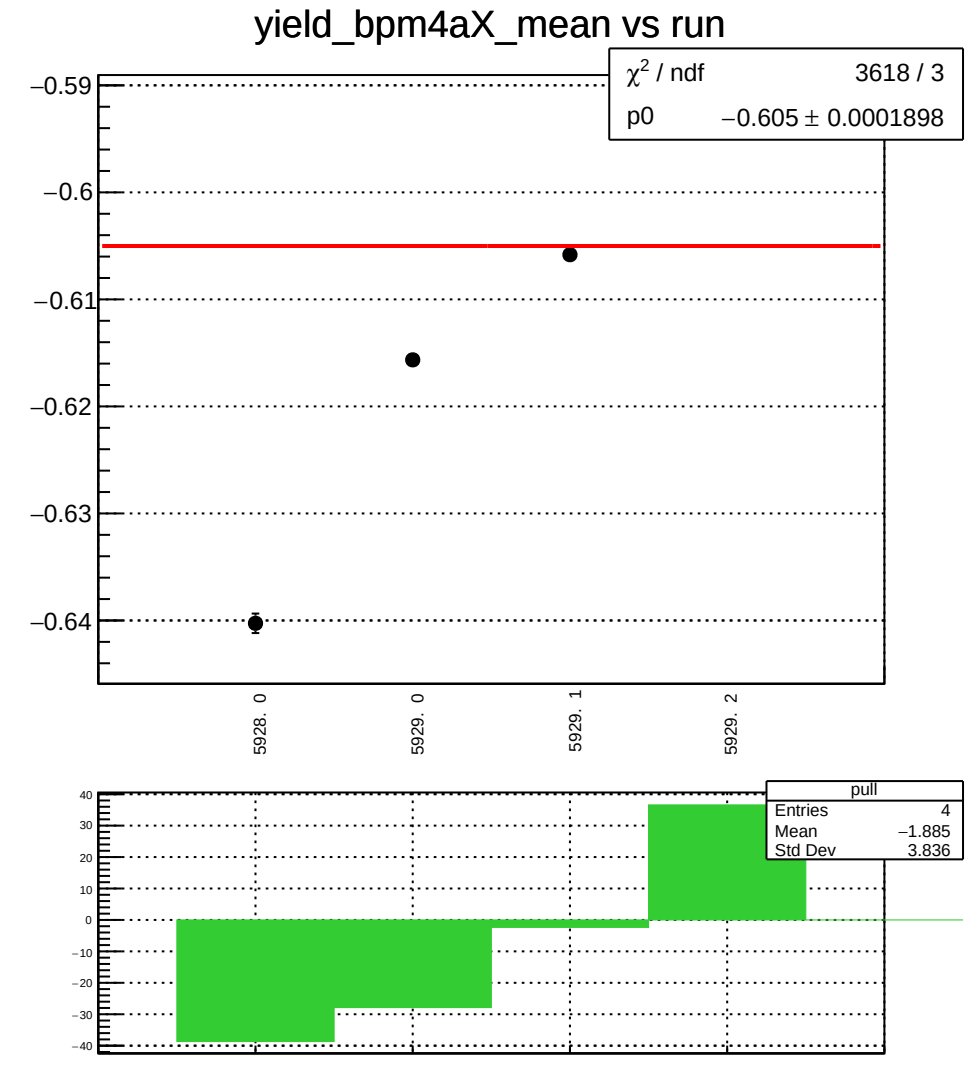

pull1D
Entries 4
Mean −4.387
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

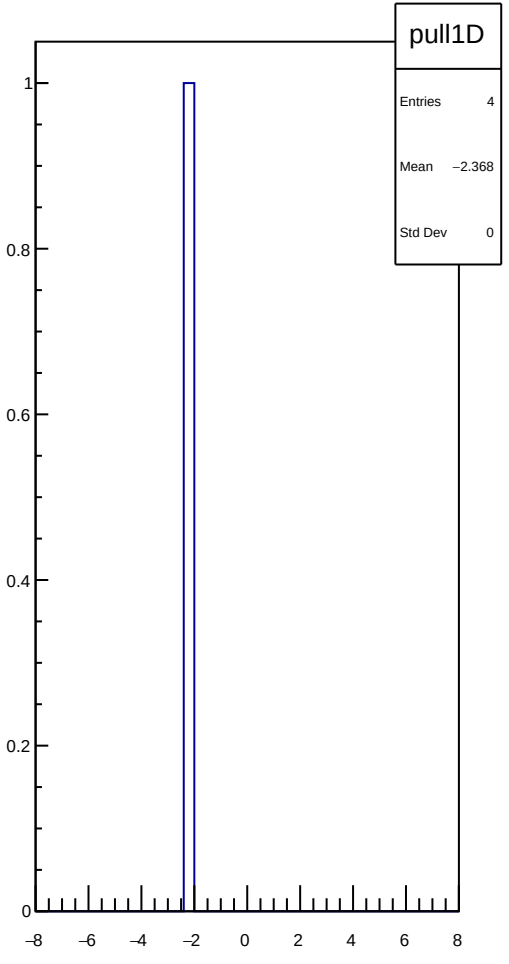

yield_cav4dX_rms vs run
χ² / ndf 6230 / 3
p0 0.01572 ± 5.536e–05
0.035
0.03
0.025
0.02
0.015
5928. 0
5929. 0
5929. 1
5929. 2

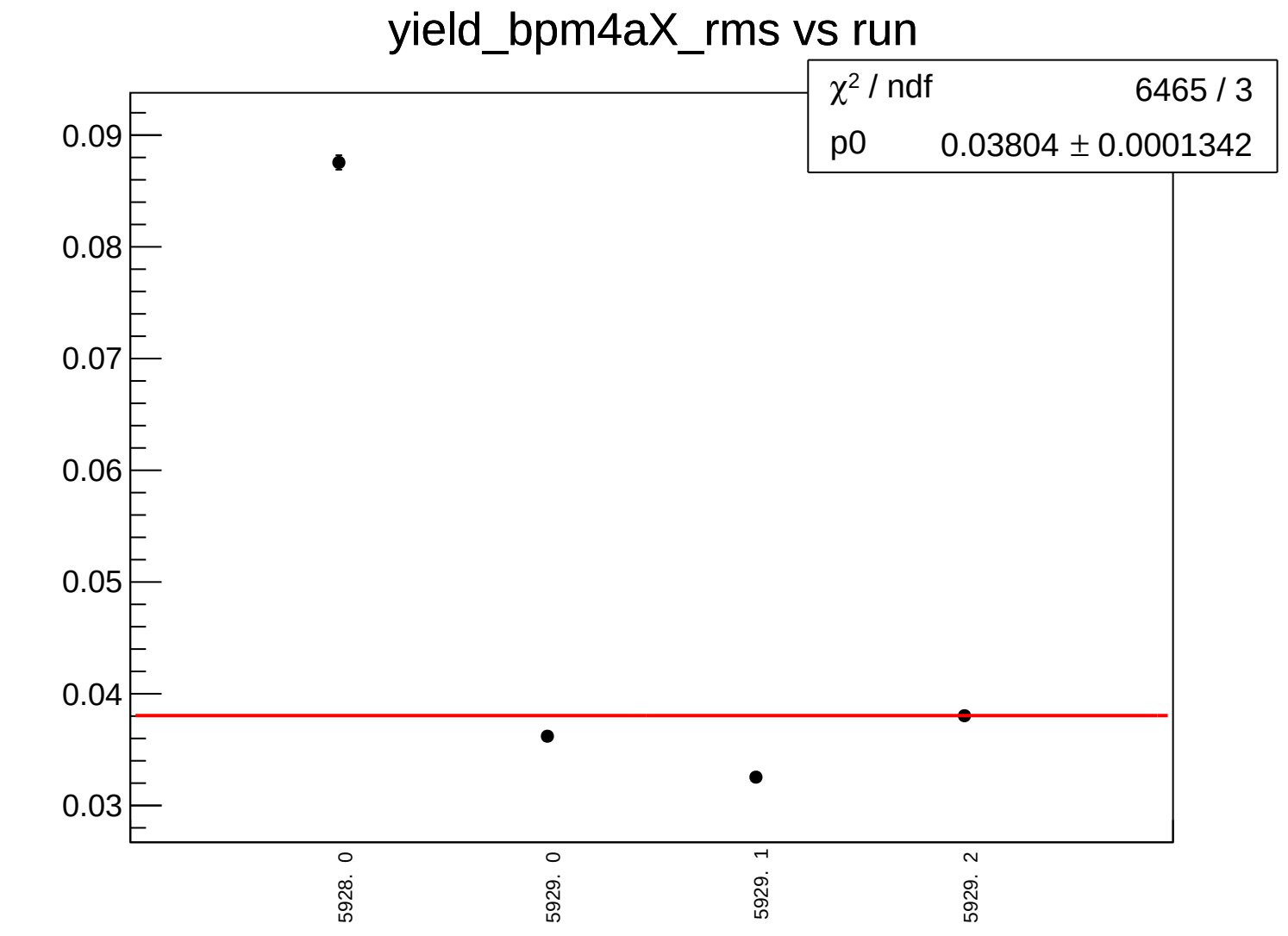

yield_cav4dY_mean vs run
χ² / ndf 8649 / 3
p0 −0.08457 ± 6.771e−06
−0.084
−0.0845
−0.085
−0.0855
−0.086
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.946
Std Dev 4.491
60
40
20
0
−20
−40
−60

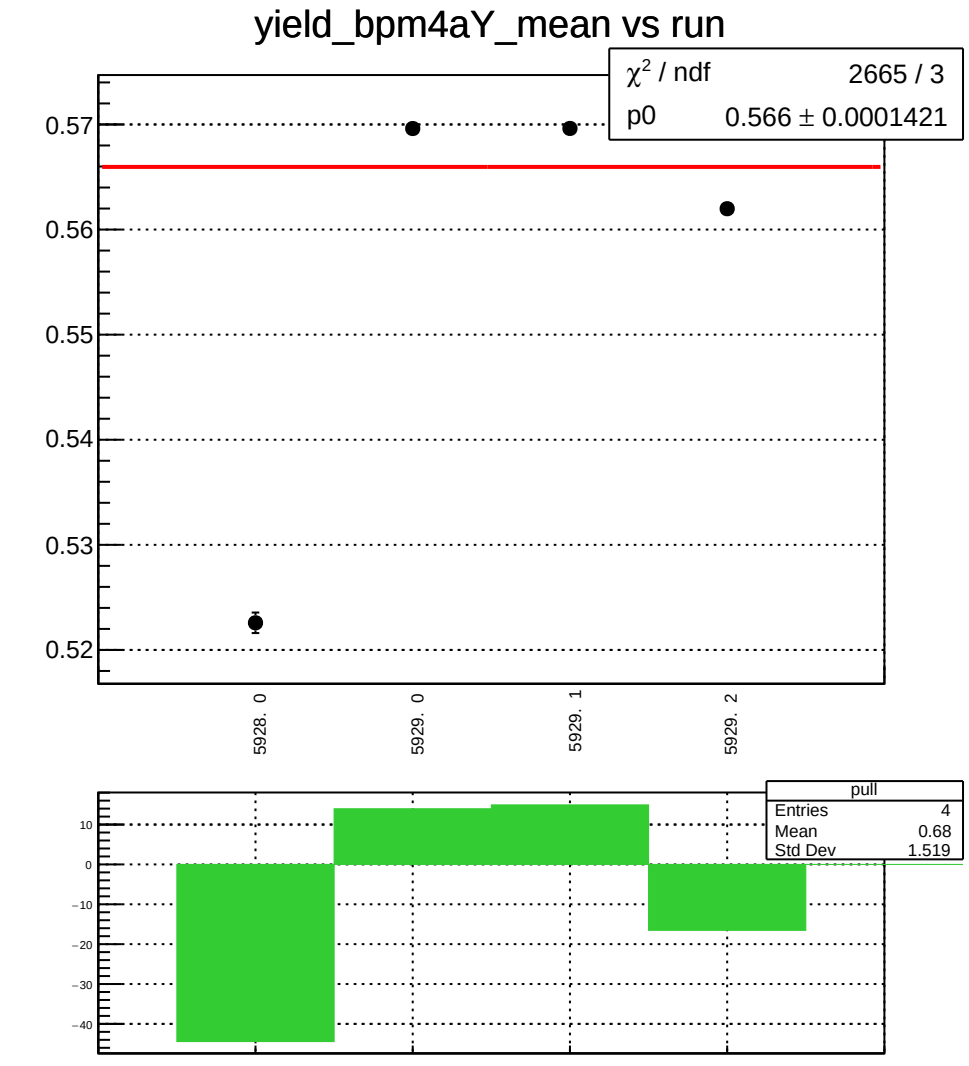

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

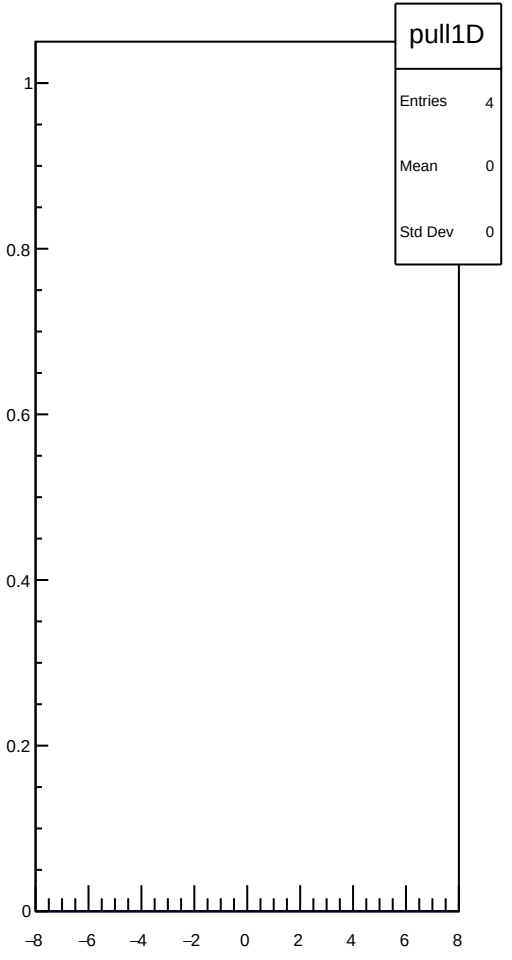

yield_cav4dY_rms vs run
χ² / ndf 1.05e+04 / 3
p0 0.001323 ± 4.788e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
5928. 0
5929. 0
5929. 1
5929. 2

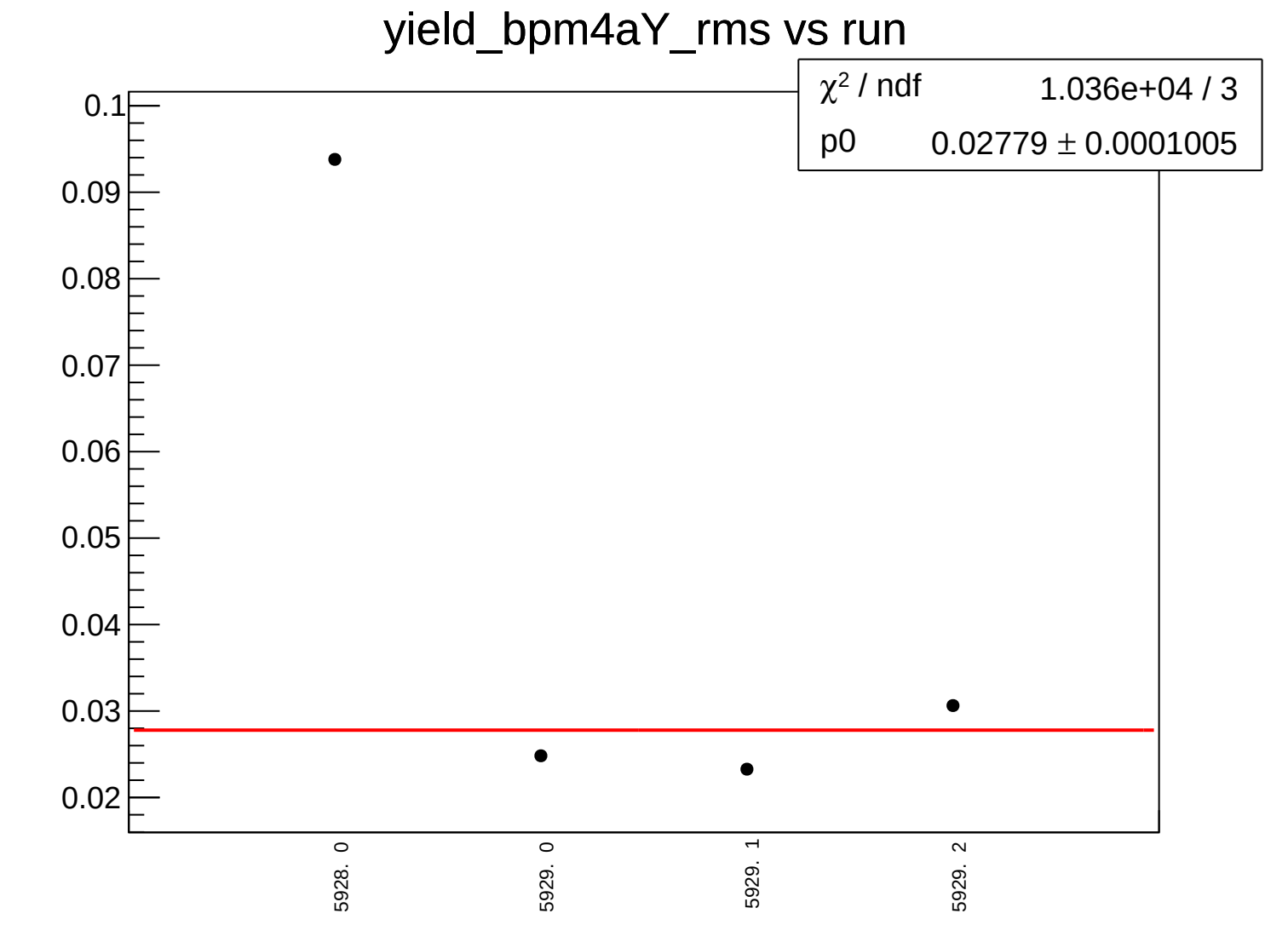

yield_bpm4aX_mean vs run
χ² / ndf 3618 / 3
p0 −0.605 ± 0.0001898
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.885
Std Dev 3.836
40
30
20
10
0
−10
−20
−30
−40

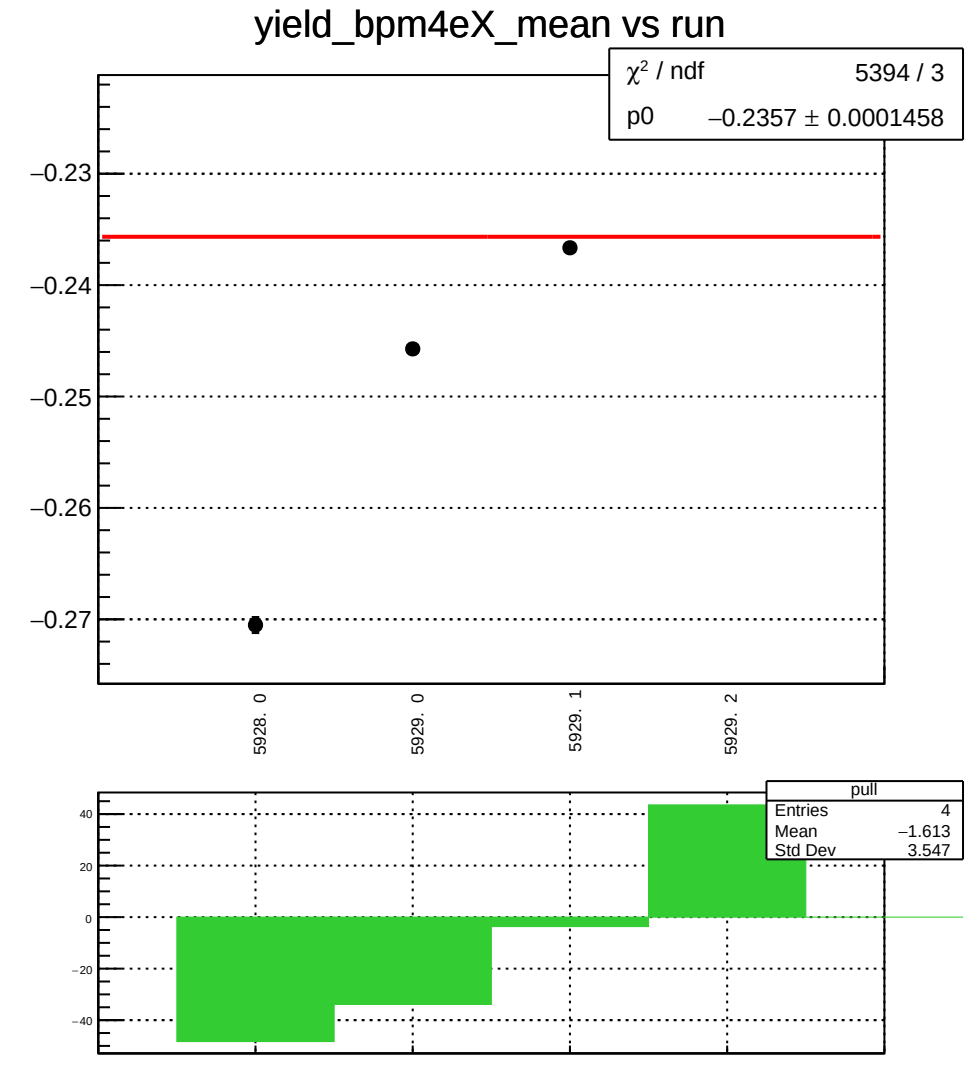

pull1D
Entries 4
Mean −2.368
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

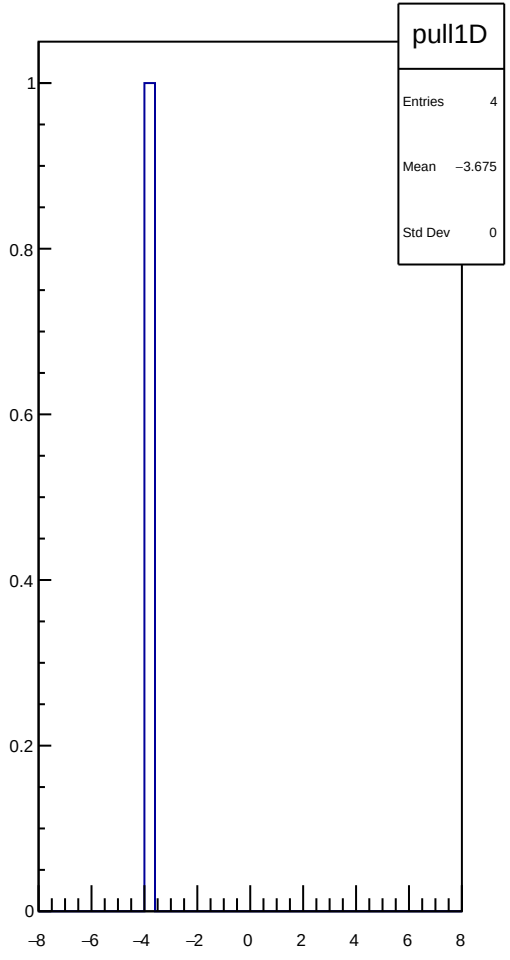

yield_bpm4aX_rms vs run
χ² / ndf 6465 / 3
p0 0.03804 ± 0.0001342
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5928. 0
5929. 0
5929. 1
5929. 2

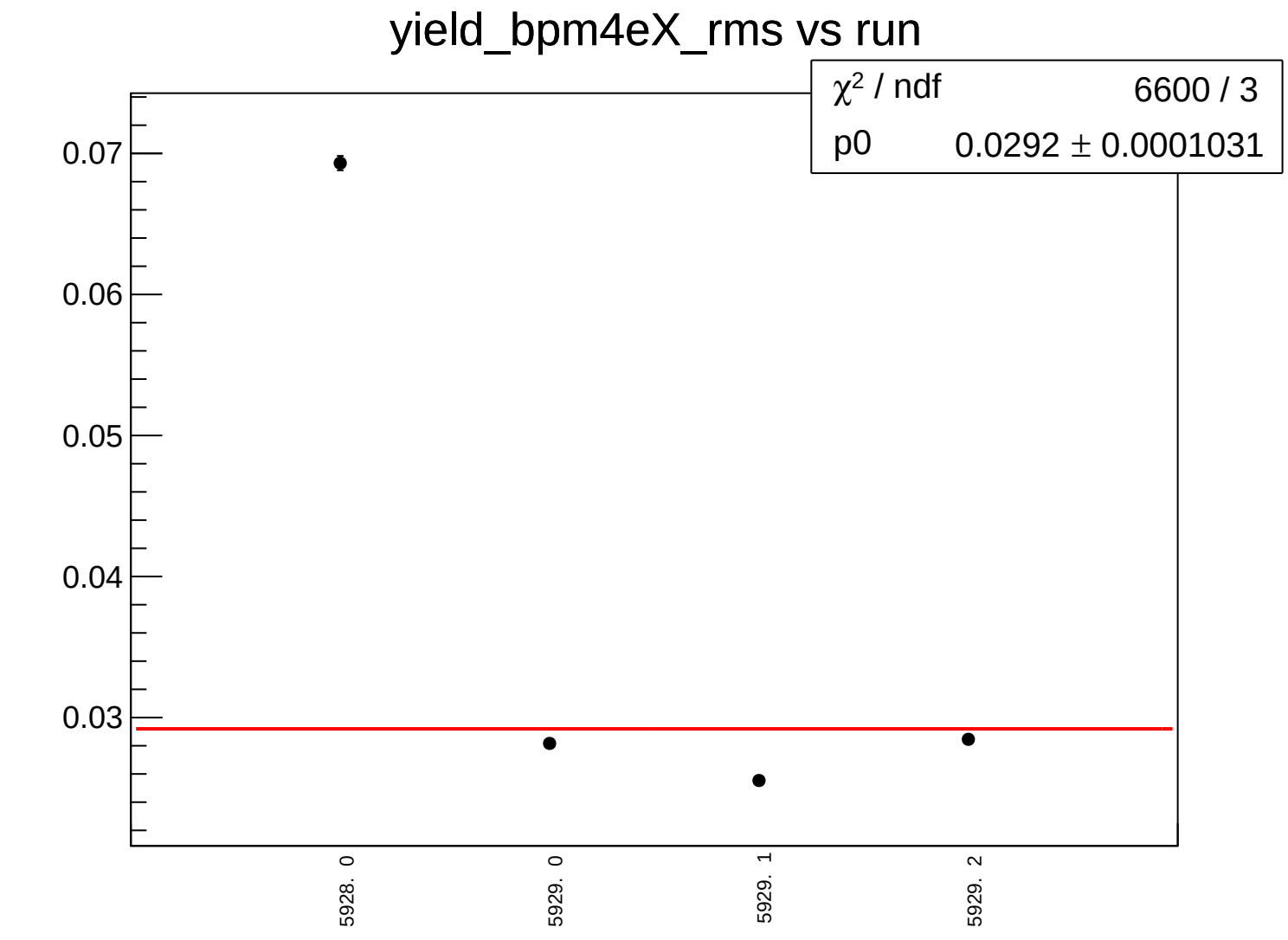

yield_bpm4aY_mean vs run
χ² / ndf 2665 / 3
p0 0.566 ± 0.0001421
0.57
0.56
0.55
0.54
0.53
0.52
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.68
Std Dev 1.519
10
0
−10
−20
−30
−40

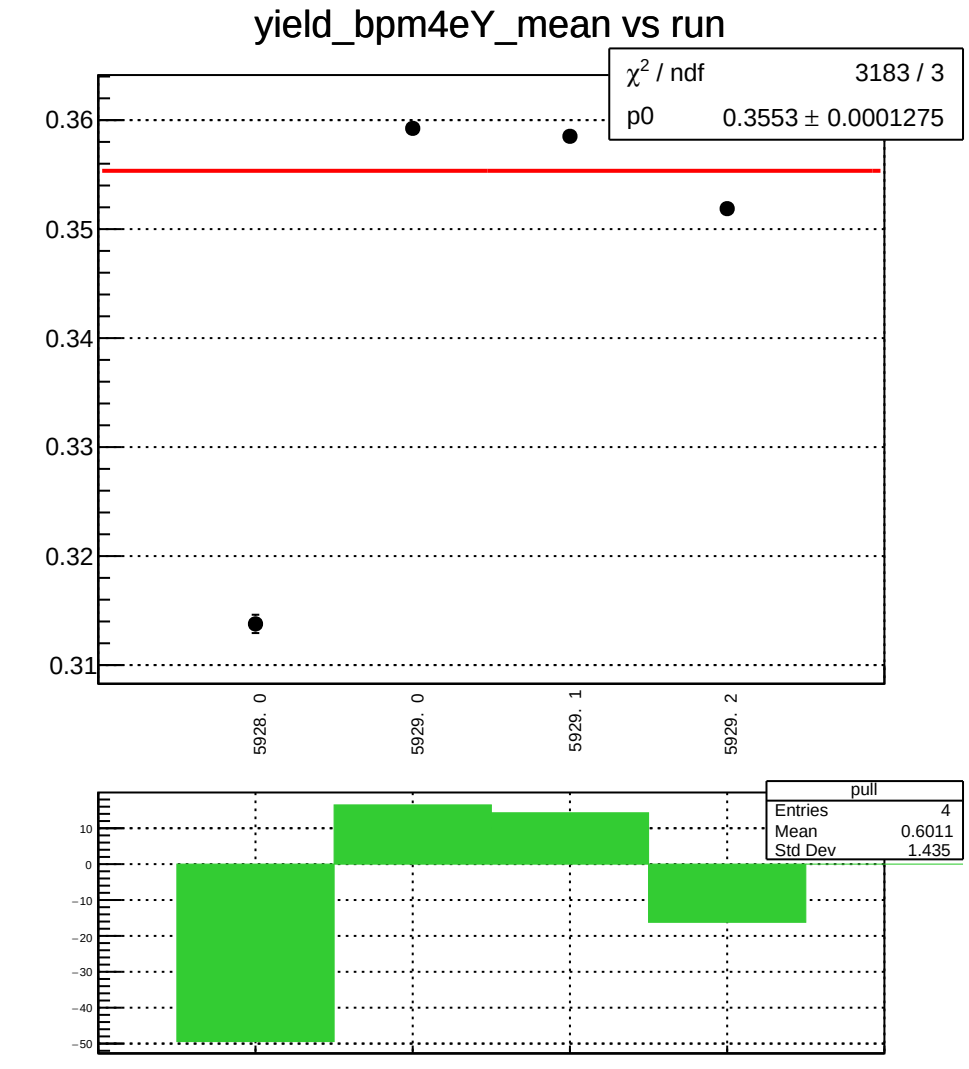

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

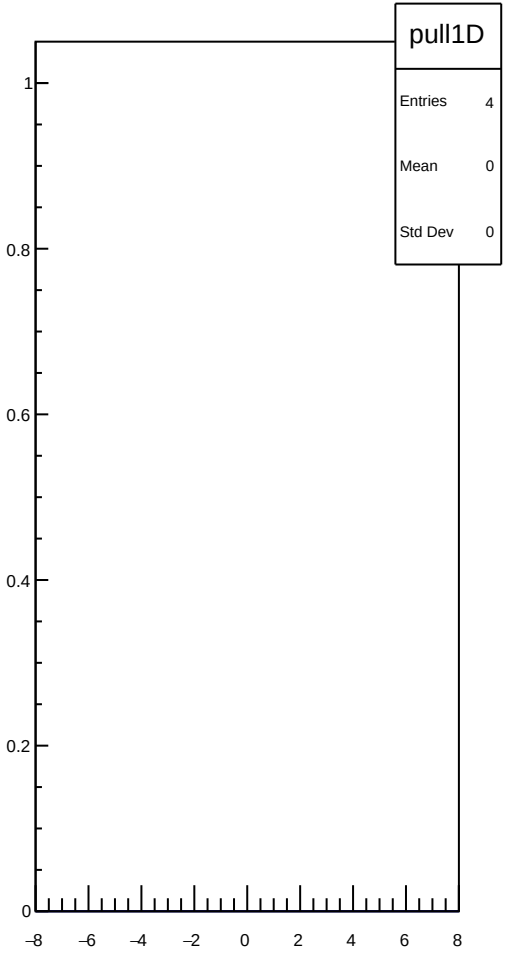

yield_bpm4aY_rms vs run
χ² / ndf 1.036e+04 / 3
p0 0.02779 ± 0.0001005
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

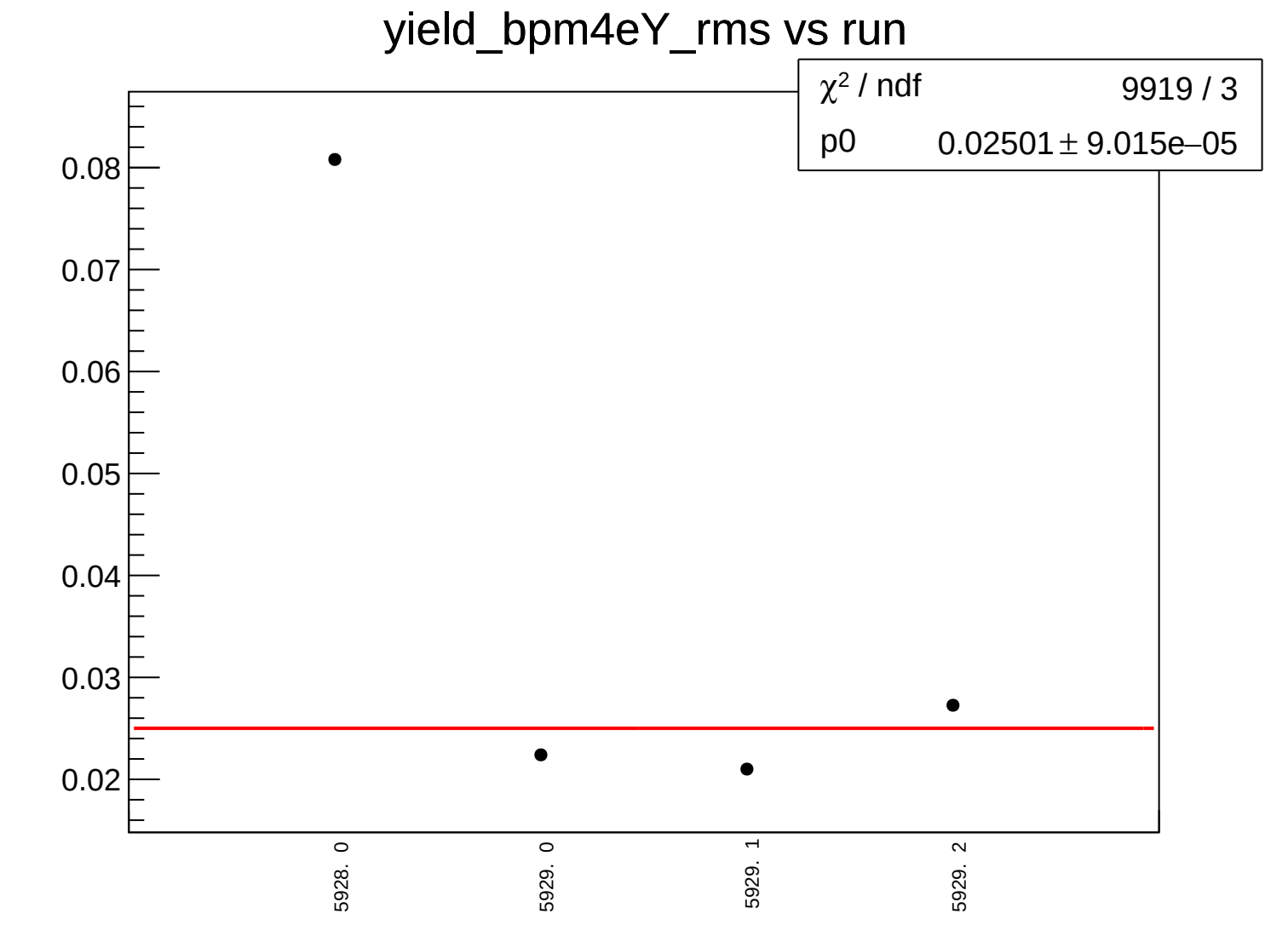

yield_bpm4eX_mean vs run
χ² / ndf 5394 / 3
p0 −0.2357 ± 0.0001458
−0.23
−0.24
−0.25
−0.26
−0.27
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.613
Std Dev 3.547
40
20
0
−20
−40

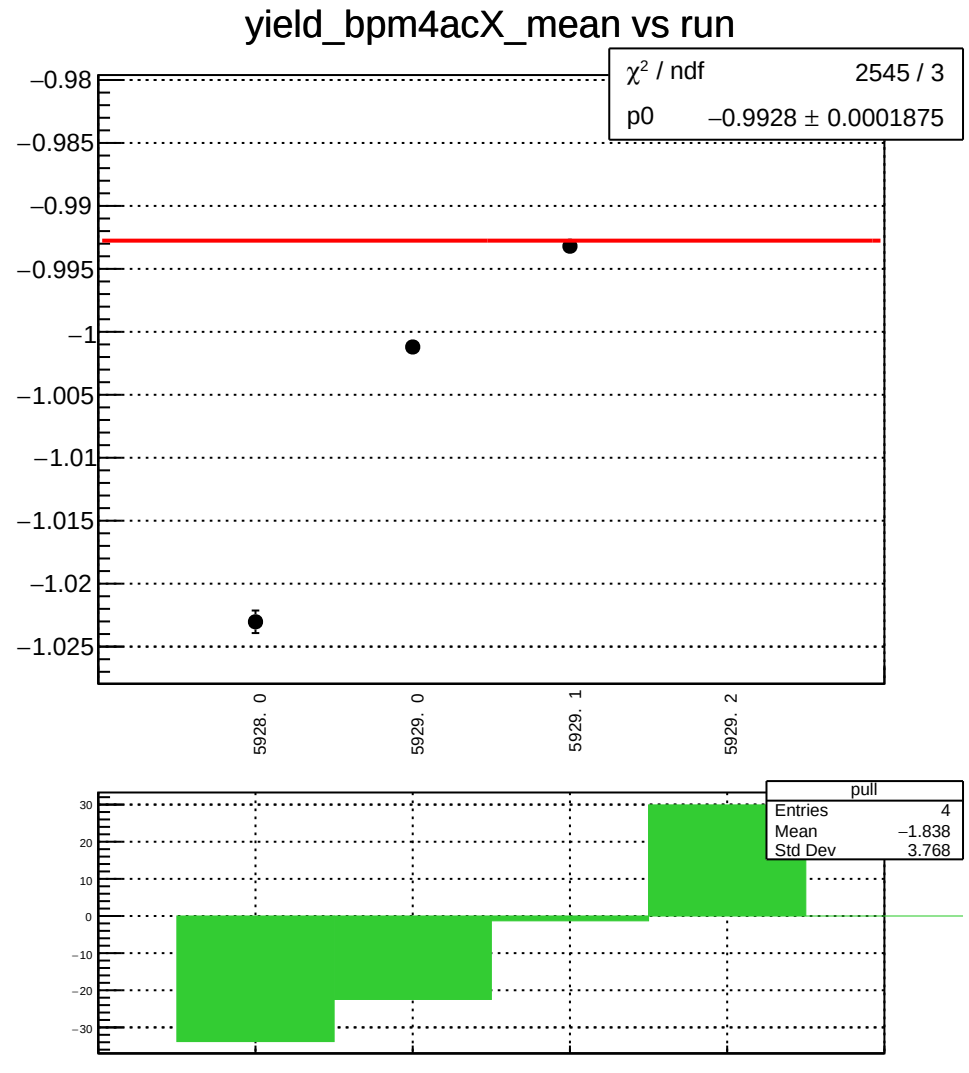

pull1D
Entries 4
Mean −3.675
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

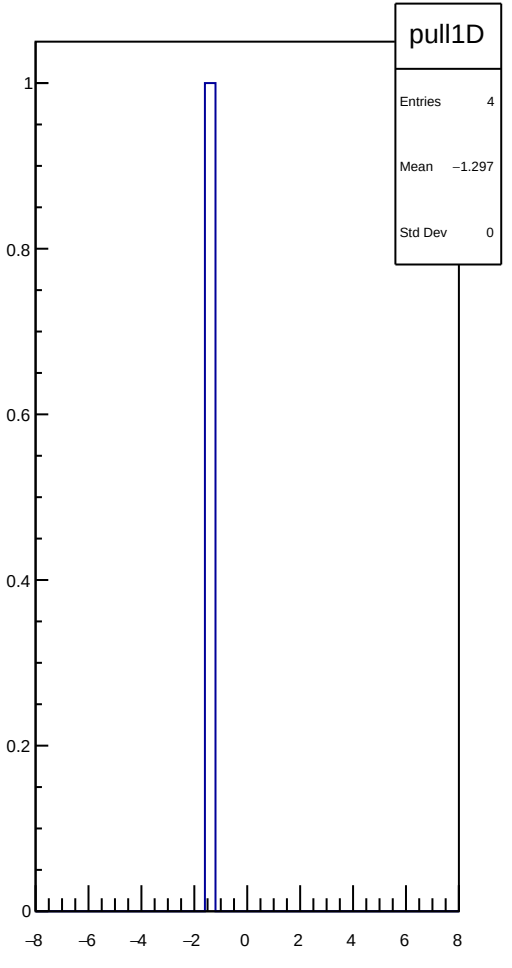

yield_bpm4eX_rms vs run
χ² / ndf 6600 / 3
p0 0.0292 ± 0.0001031
0.07
0.06
0.05
0.04
0.03
5928. 0
5929. 0
5929. 1
5929. 2

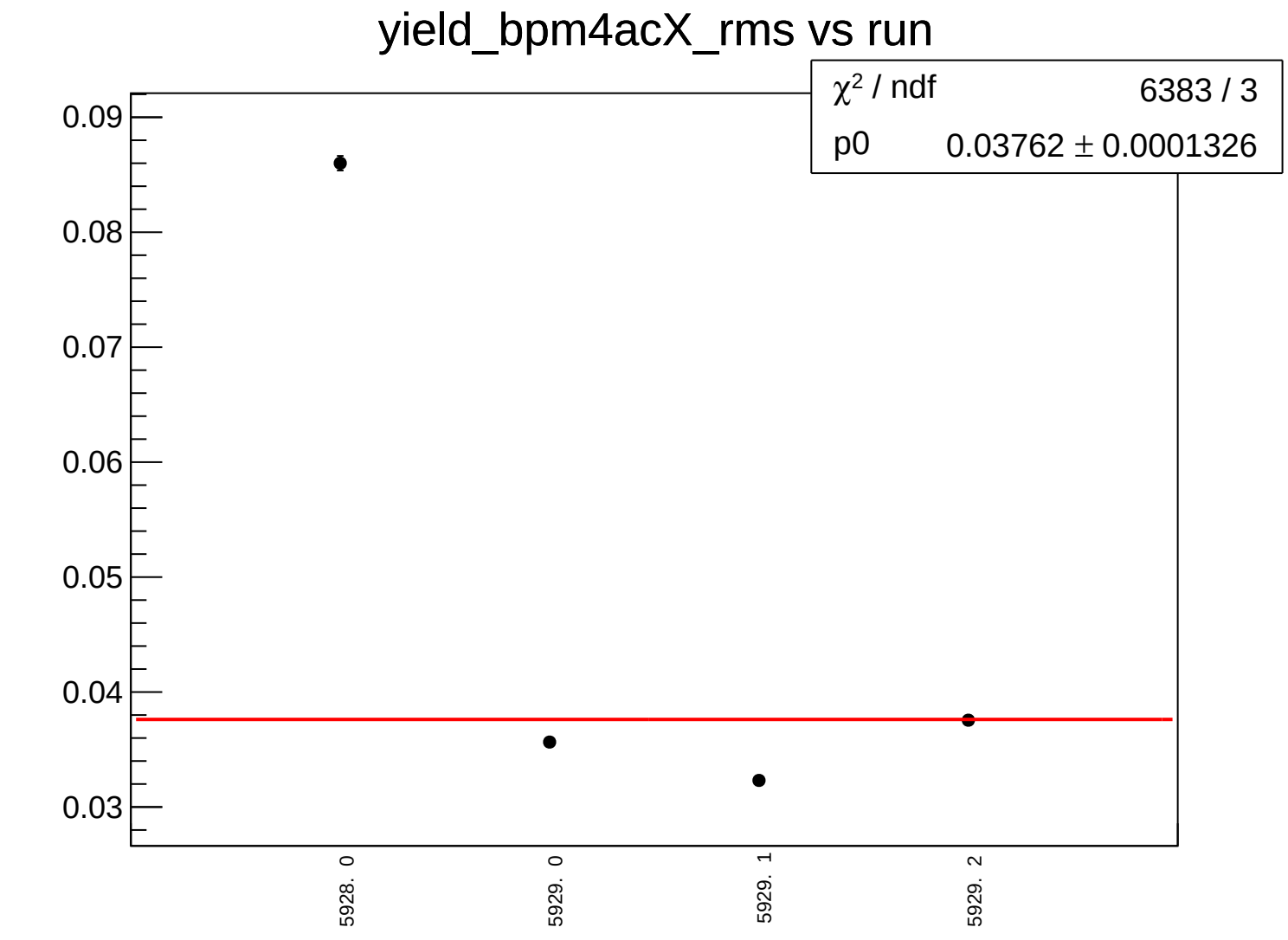

yield_bpm4eY_mean vs run
χ² / ndf 3183 / 3
p0 0.3553 ± 0.0001275
0.36
0.35
0.34
0.33
0.32
0.31
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.6011
Std Dev 1.435
10
0
−10
−20
−30
−40
−50

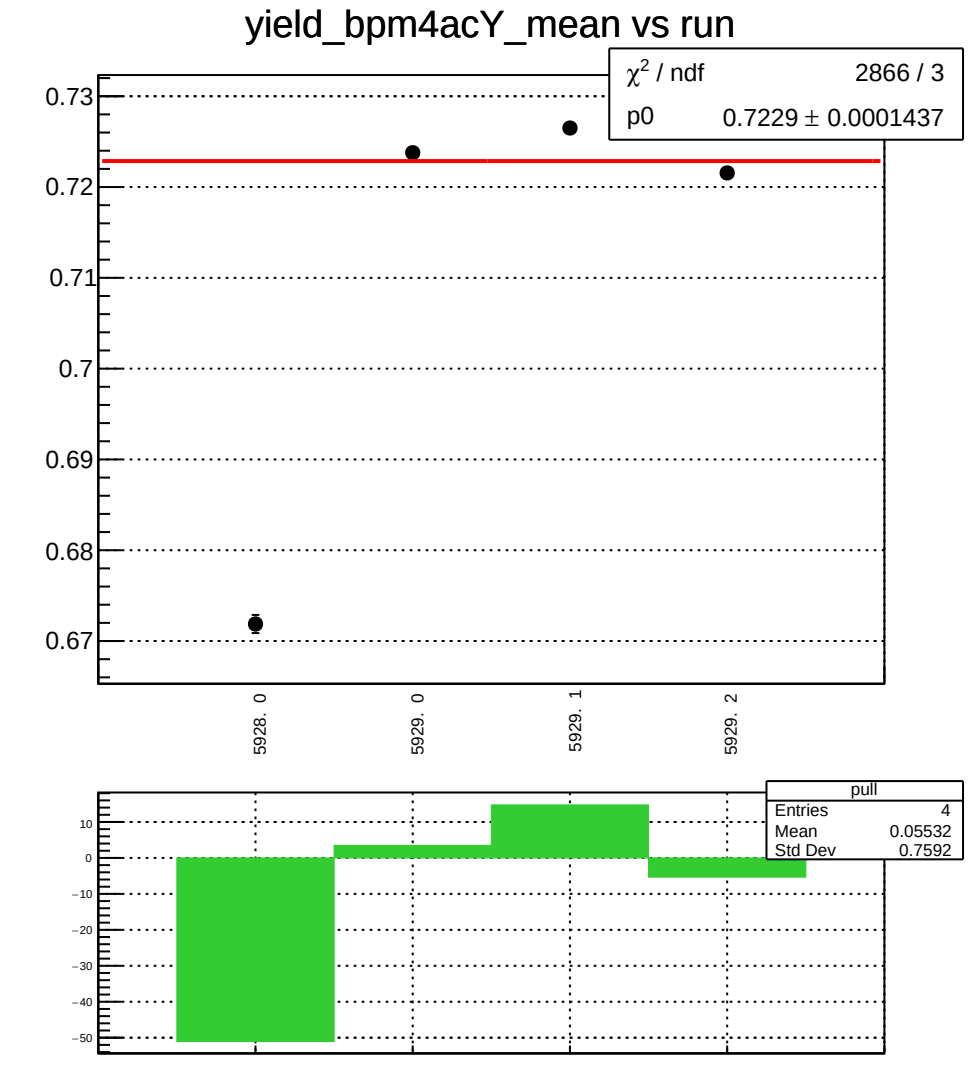

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

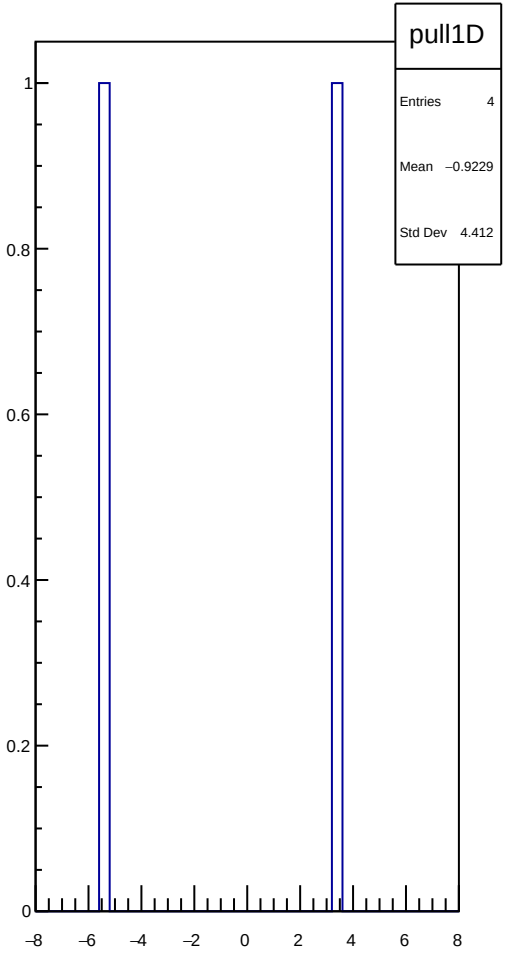

yield_bpm4eY_rms vs run
χ² / ndf 9919 / 3
p0 0.02501 ± 9.015e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

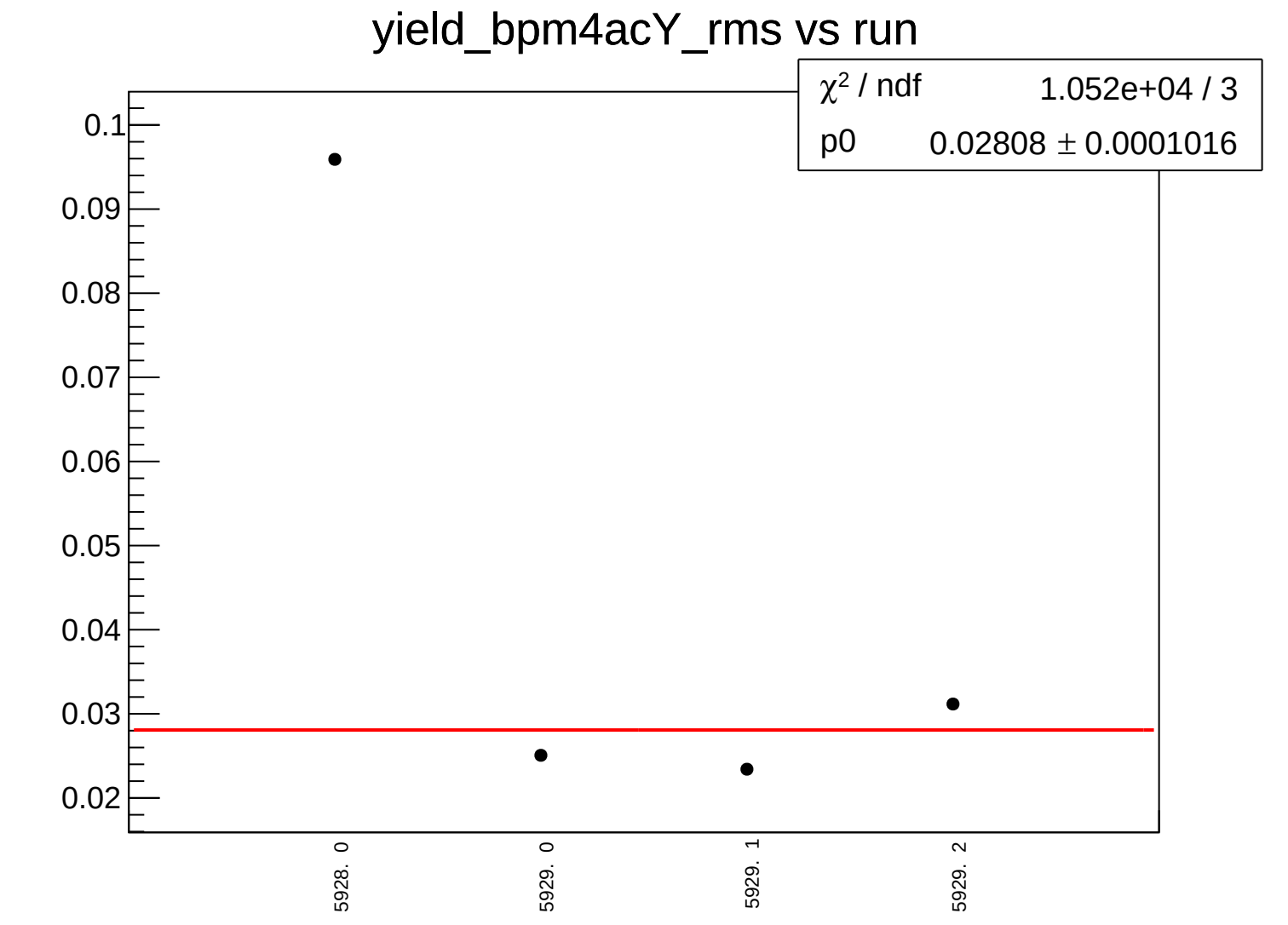

yield_bpm4acX_mean vs run
χ² / ndf 2545 / 3
p0 −0.9928 ± 0.0001875
−0.98
−0.985
−0.99
−0.995
−1
−1.005
−1.01
−1.015
−1.02
−1.025
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.838
Std Dev 3.768
30
20
10
0
−10
−20
−30

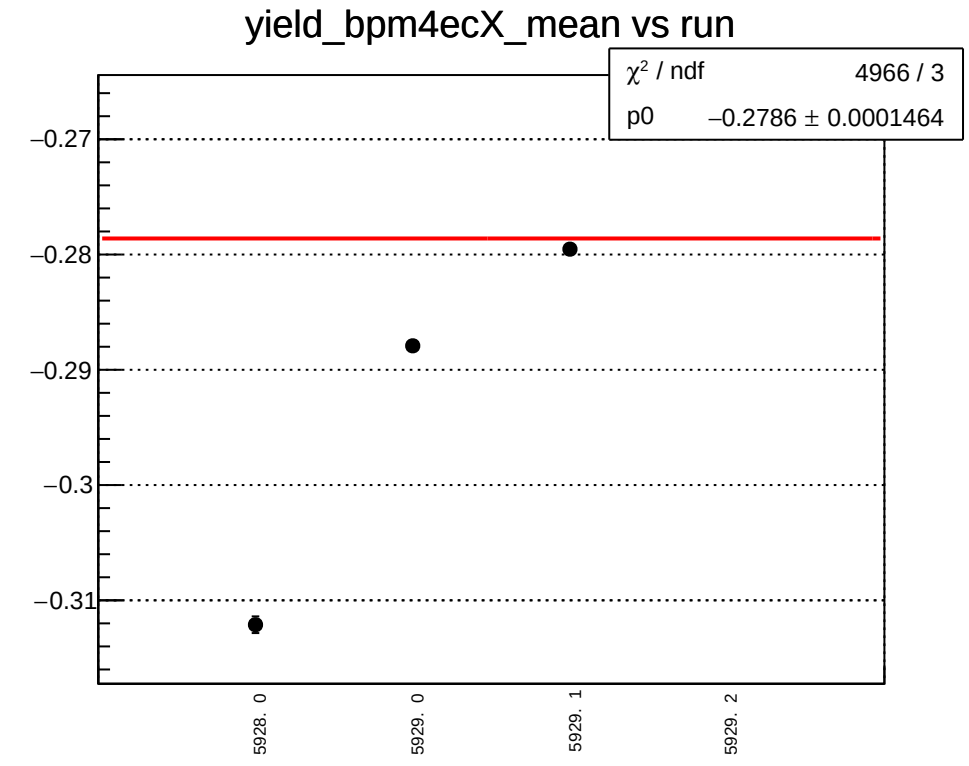

pull1D
Entries 4
Mean −1.297
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

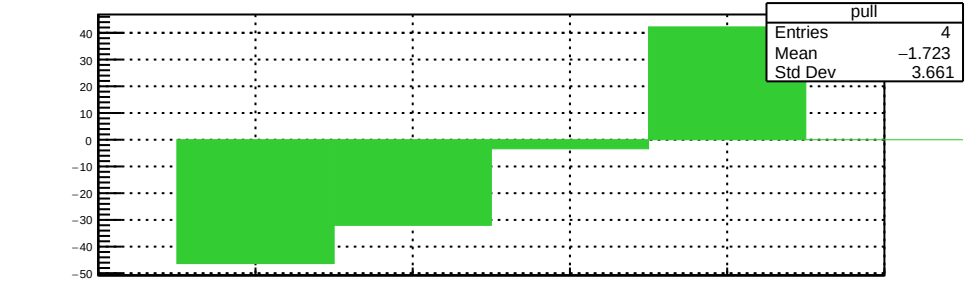

yield_bpm4acX_rms vs run
χ² / ndf 6383 / 3
p0 0.03762 ± 0.0001326
0.09
0.08
0.07
0.06
0.05
0.04
0.03
5928. 0
5929. 0
5929. 1
5929. 2

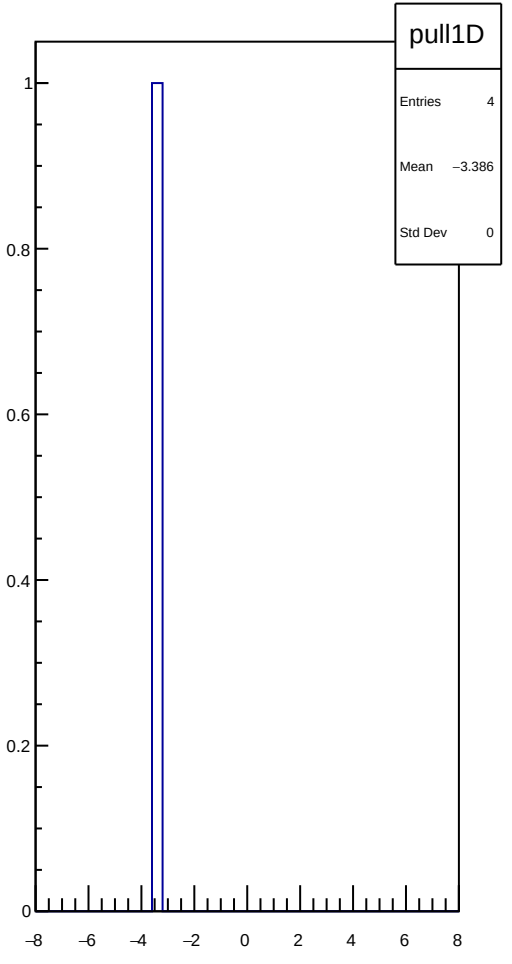

yield_bpm4acY_mean vs run
χ² / ndf 2866 / 3
p0 0.7229 ± 0.0001437
0.73
0.72
0.71
0.7
0.69
0.68
0.67
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.05532
Std Dev 0.7592
10
0
−10
−20
−30
−40
−50

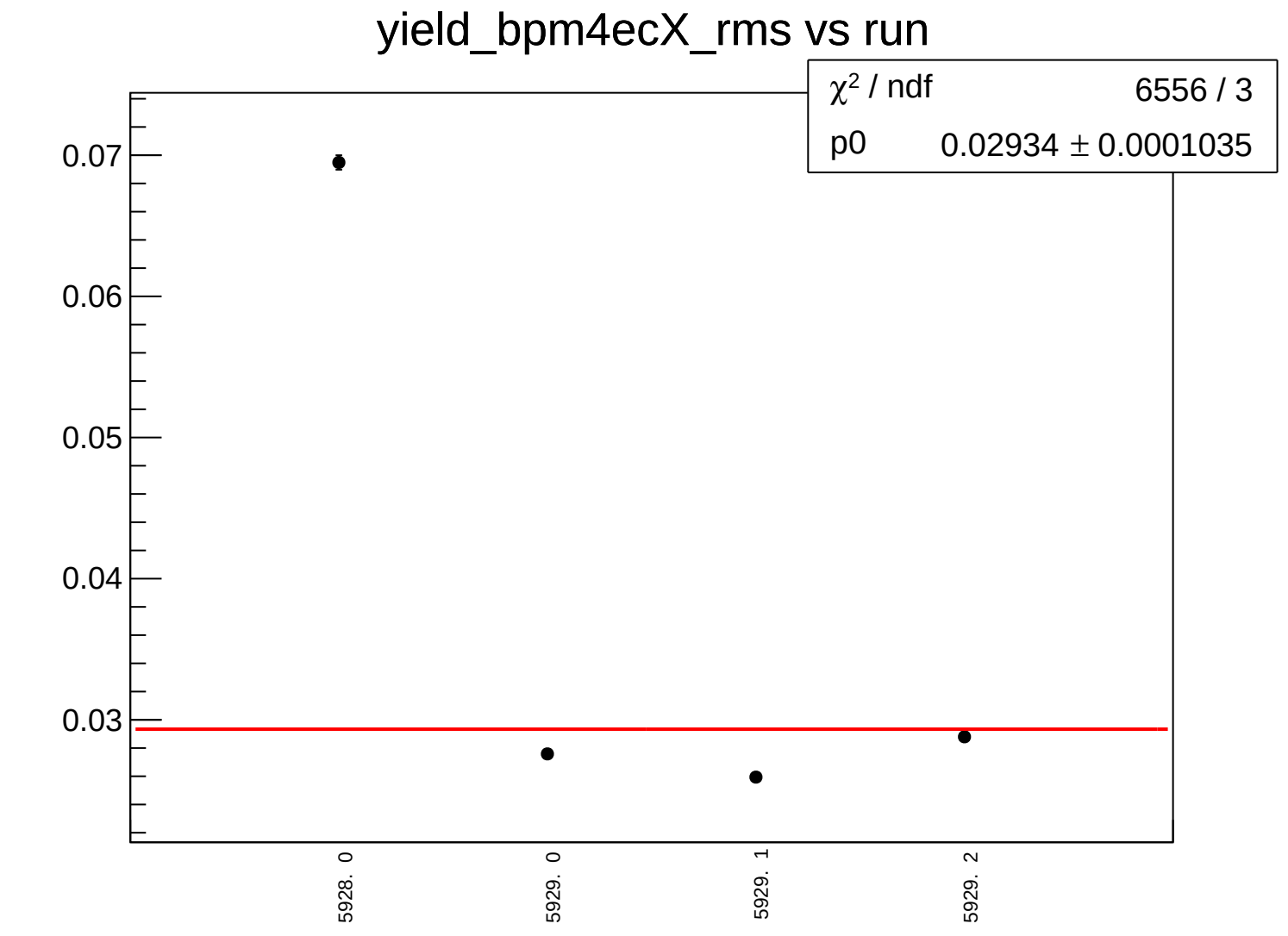

pull1D
Entries 4
Mean −0.9229
Std Dev 4.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

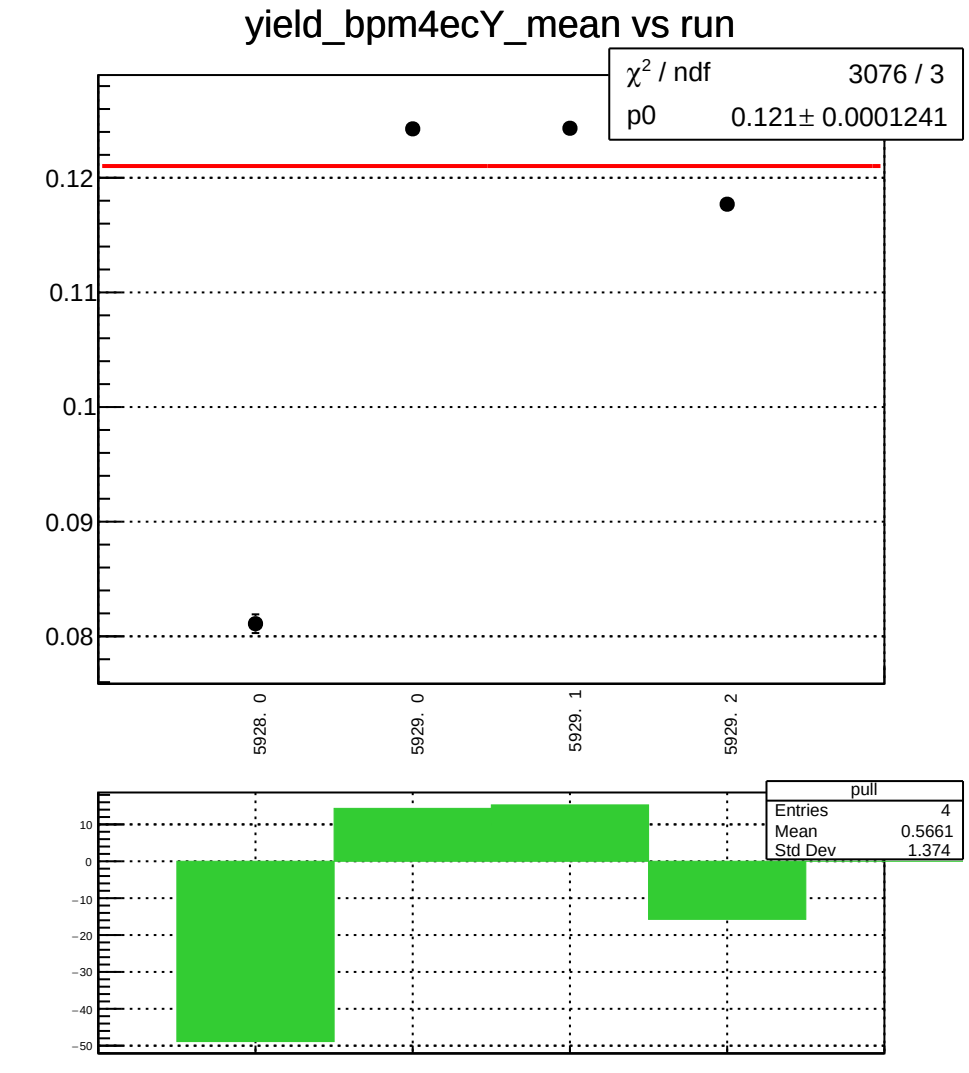

yield_bpm4acY_rms vs run
χ² / ndf 1.052e+04 / 3
p0 0.02808 ± 0.0001016
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

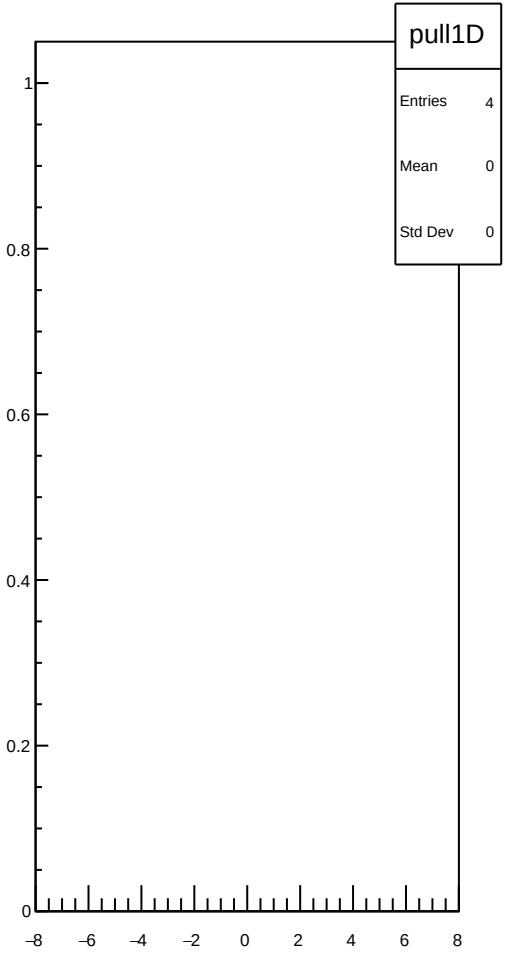

yield_bpm4ecX_mean vs run
χ² / ndf 4966 / 3
p0 −0.2786 ± 0.0001464
−0.27
−0.28
−0.29
−0.3
−0.31
5928. 0
5929. 0
5929. 1
5929. 2

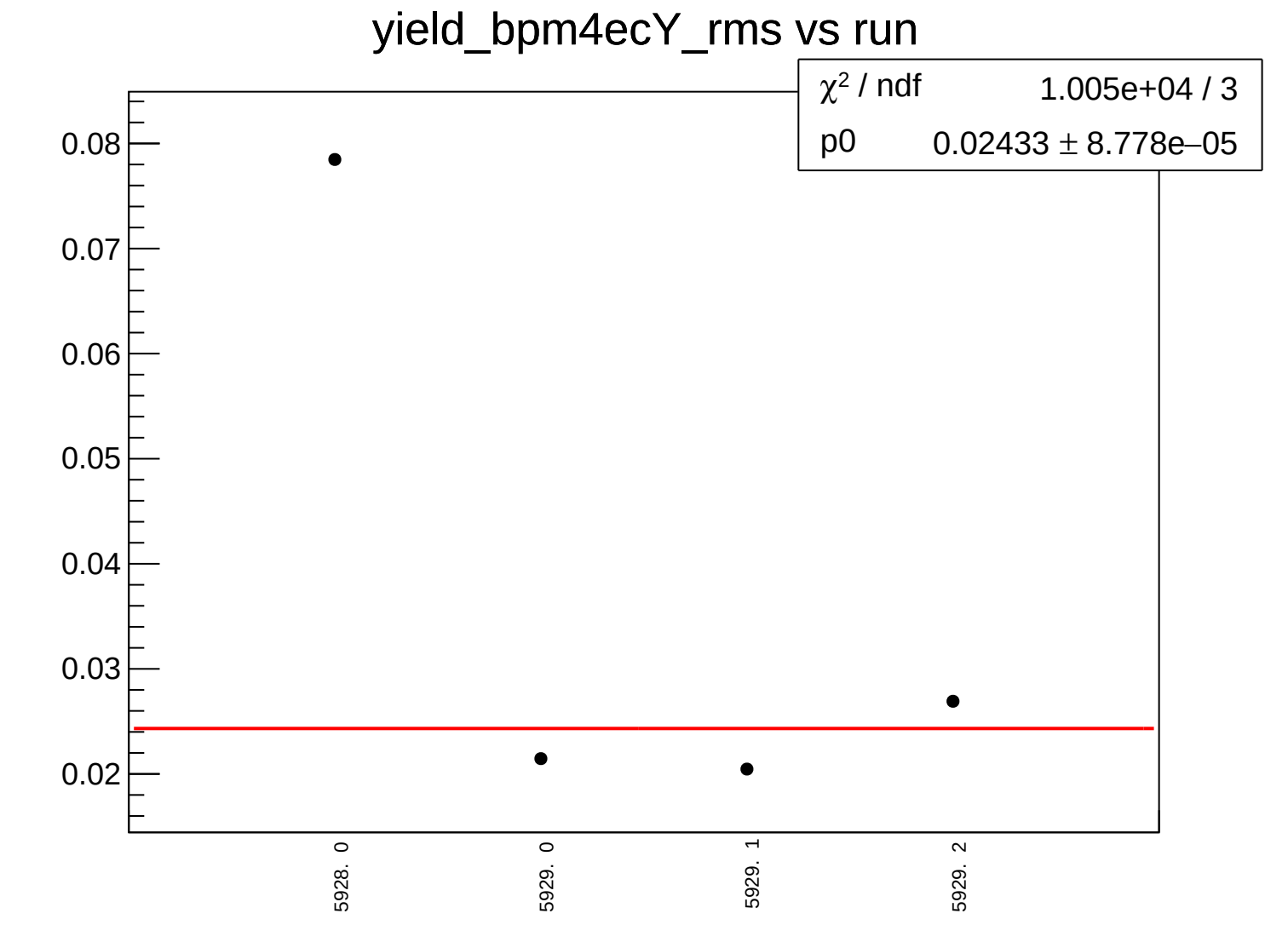

pull
Entries 4
Mean −1.723
Std Dev 3.661
40
30
20
10
0
−10
−20
−30
−40
−50

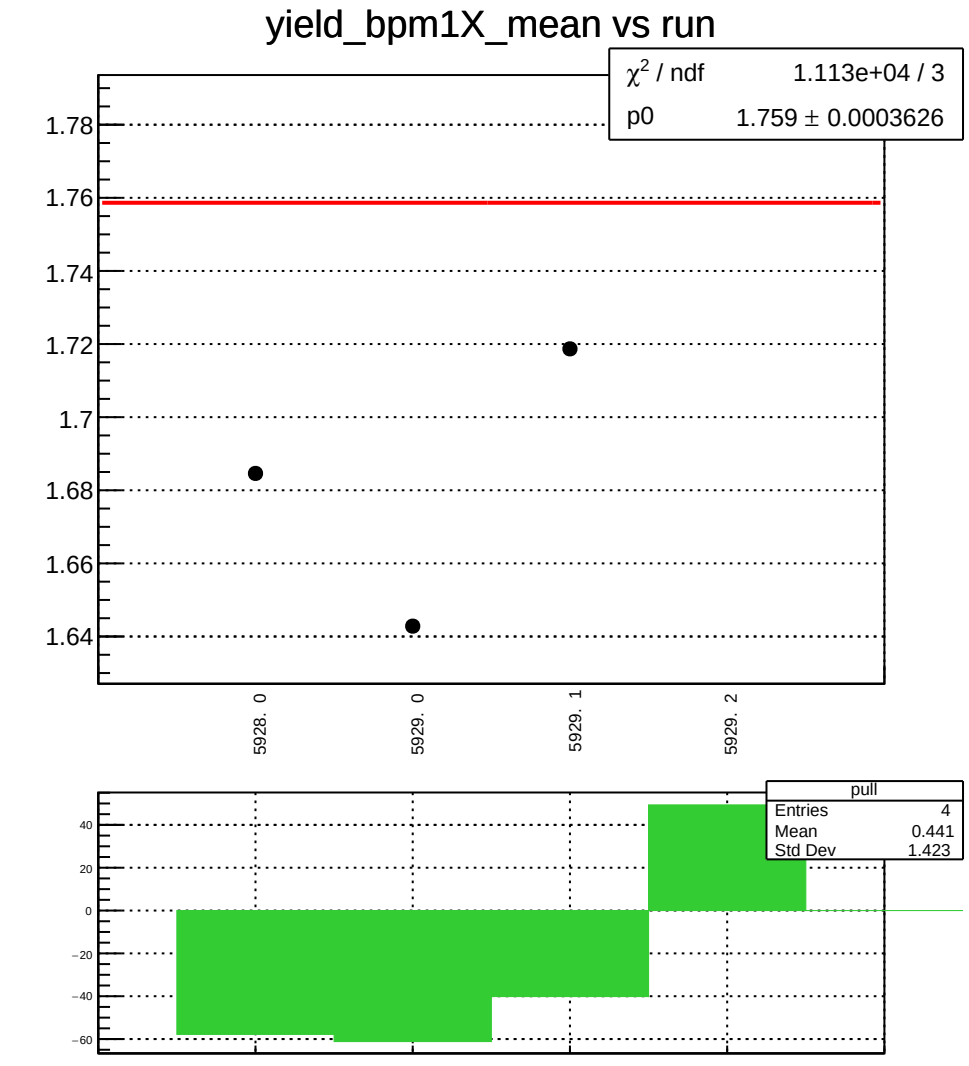

pull1D
Entries 4
Mean −3.386
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

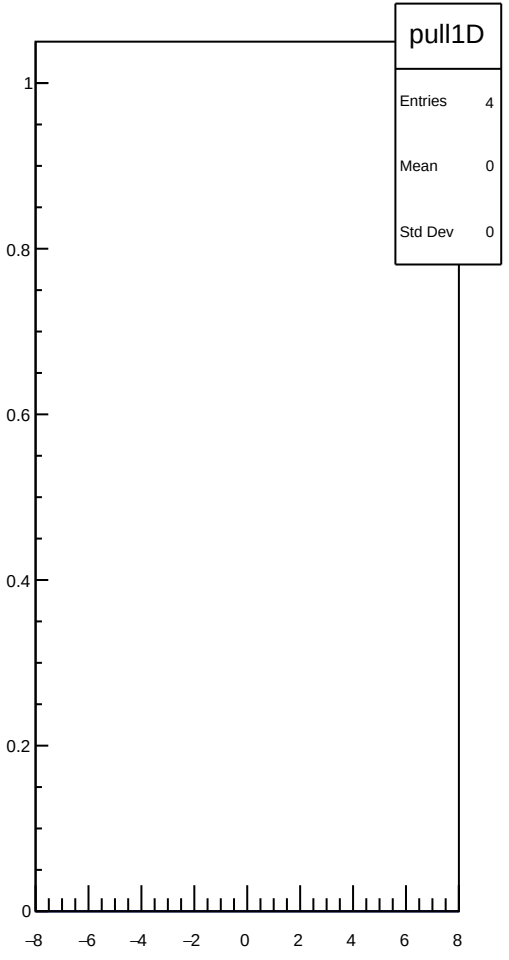

yield_bpm4ecX_rms vs run
χ² / ndf 6556 / 3
p0 0.02934 ± 0.0001035
0.07
0.06
0.05
0.04
0.03
5928. 0
5929. 0
5929. 1
5929. 2

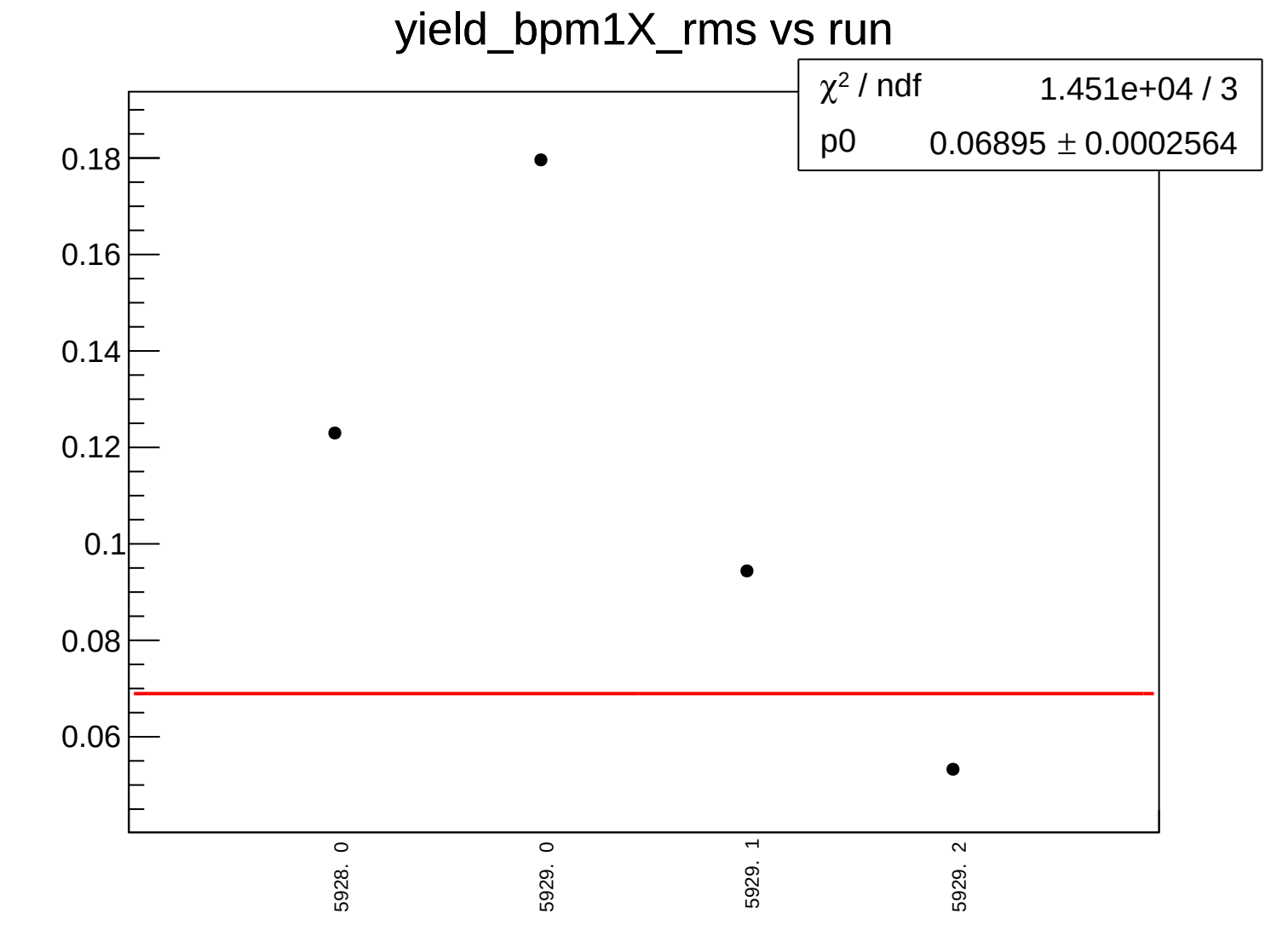

yield_bpm4ecY_mean vs run
χ² / ndf 3076 / 3
p0 0.121± 0.0001241
0.12
0.11
0.1
0.09
0.08
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.5661
Std Dev 1.374
10
0
−10
−20
−30
−40
−50

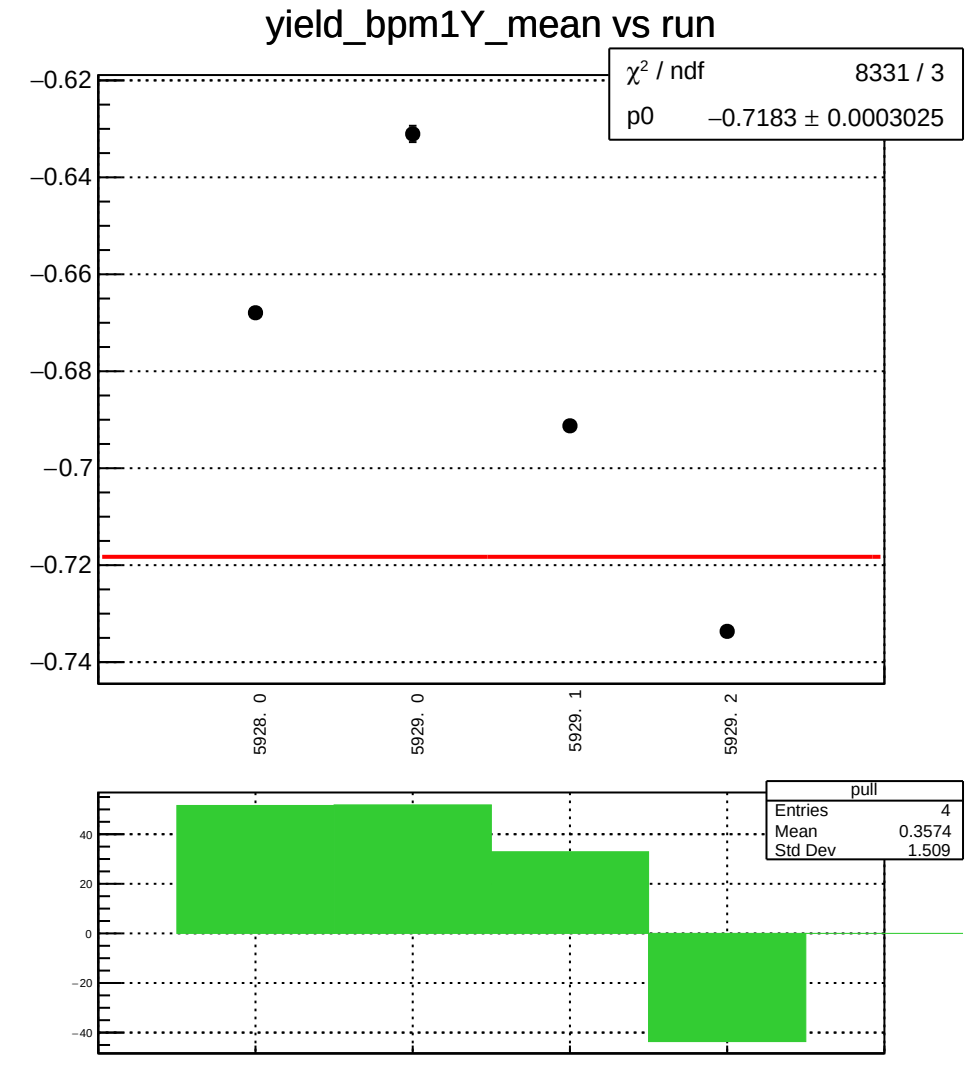

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

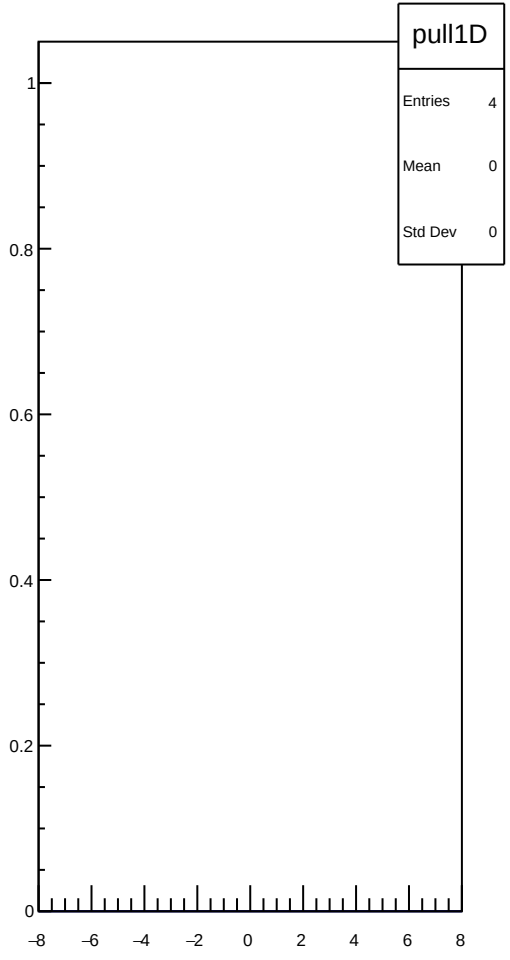

yield_bpm4ecY_rms vs run
χ² / ndf 1.005e+04 / 3
p0 0.02433 ± 8.778e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

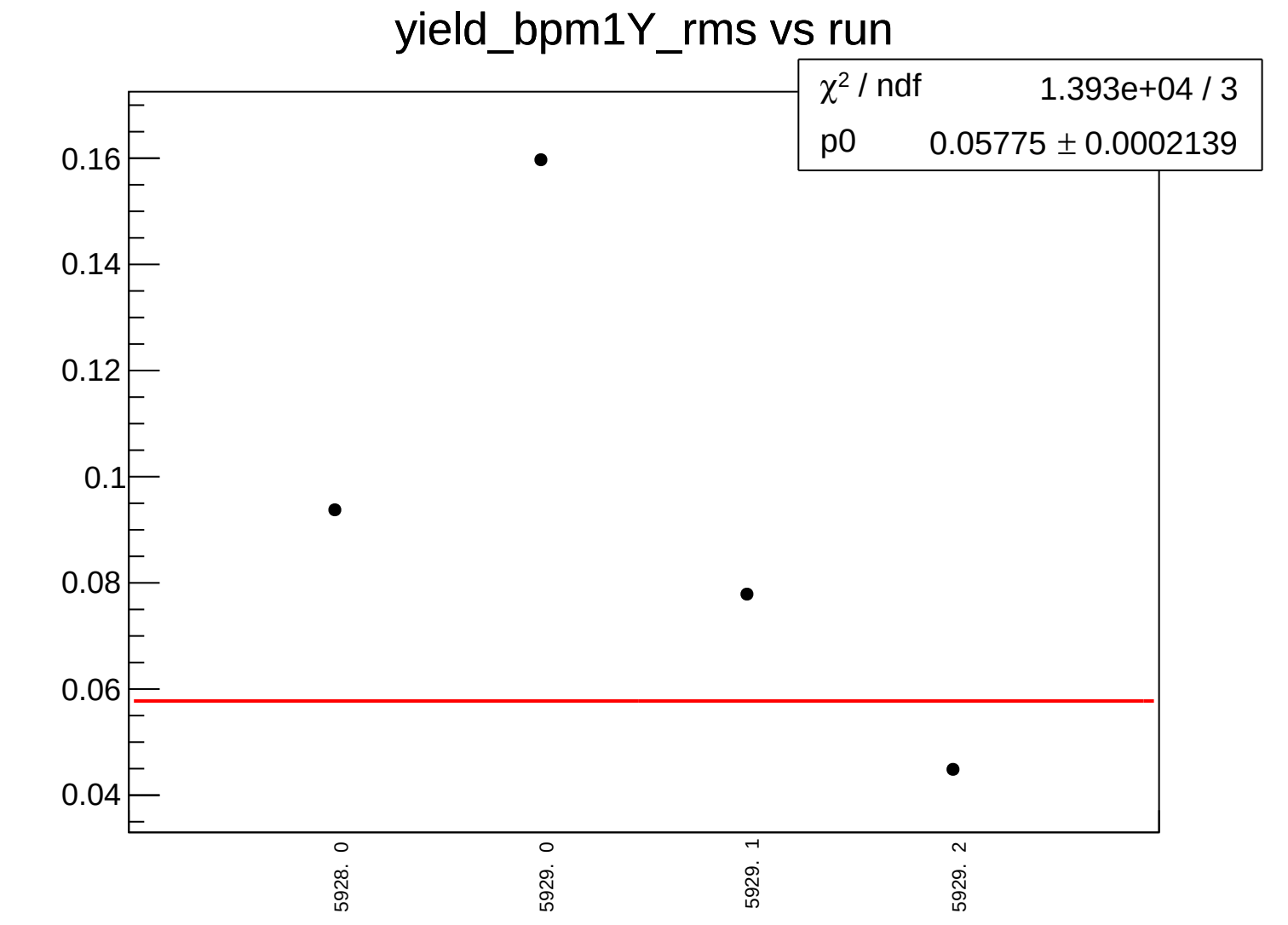

yield_bpm1X_mean vs run
χ² / ndf 1.113e+04 / 3
p0 1.759 ± 0.0003626
1.78
1.76
1.74
1.72
1.7
1.68
1.66
1.64
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.441
Std Dev 1.423
40
20
0
−20
−40
−60

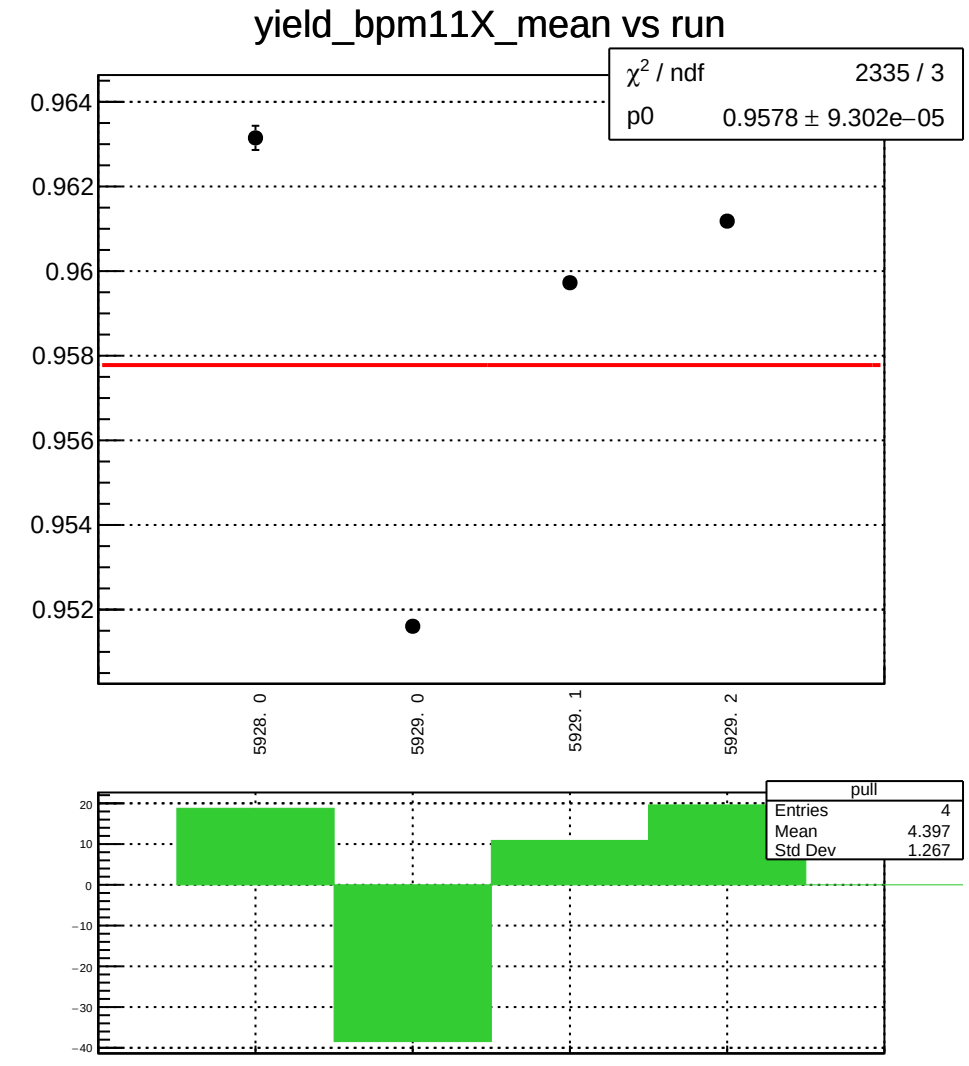

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

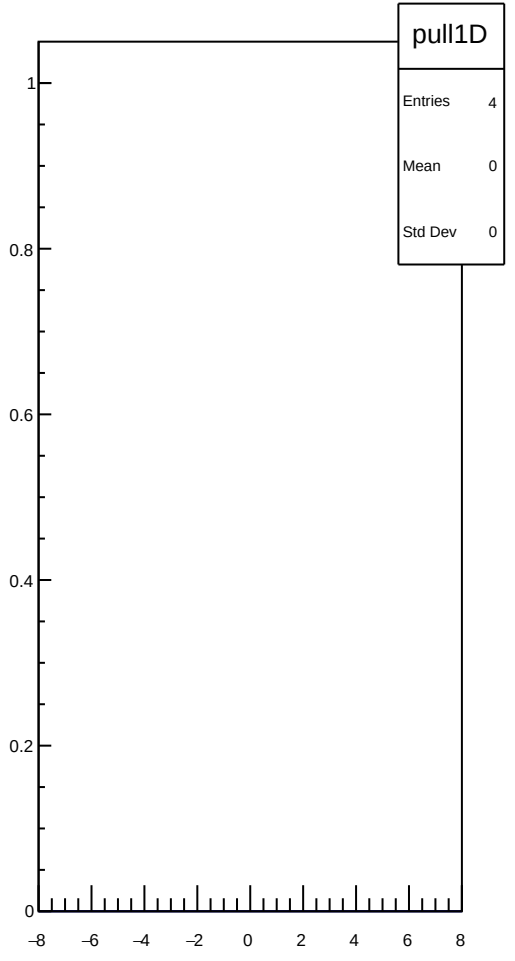

yield_bpm1X_rms vs run
χ² / ndf 1.451e+04 / 3
p0 0.06895 ± 0.0002564
0.18
0.16
0.14
0.12
0.1
0.08
0.06
5928. 0
5929. 0
5929. 1
5929. 2

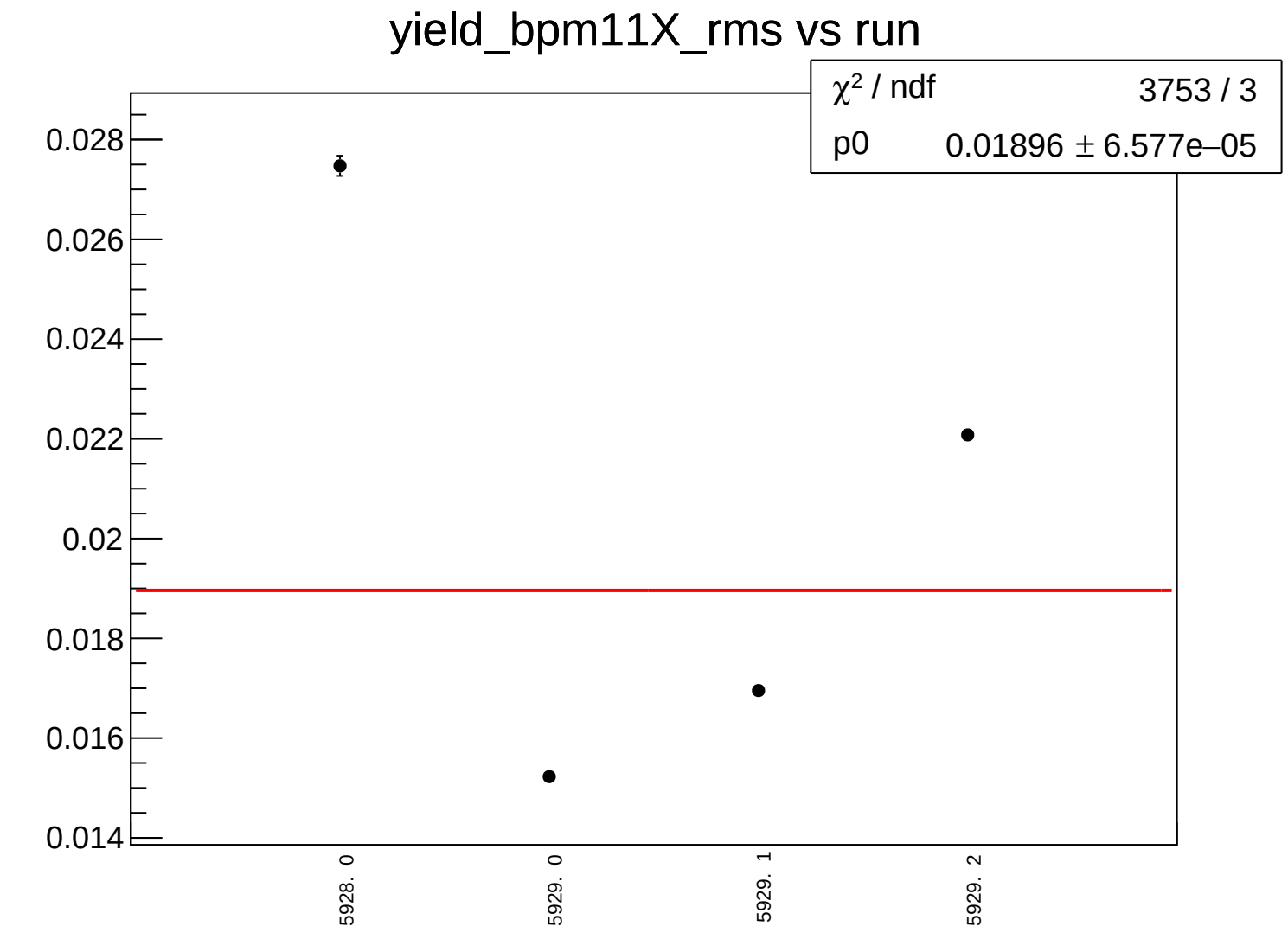

yield_bpm1Y_mean vs run
χ² / ndf 8331 / 3
p0 −0.7183 ± 0.0003025
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.3574
Std Dev 1.509
40
20
0
−20
−40

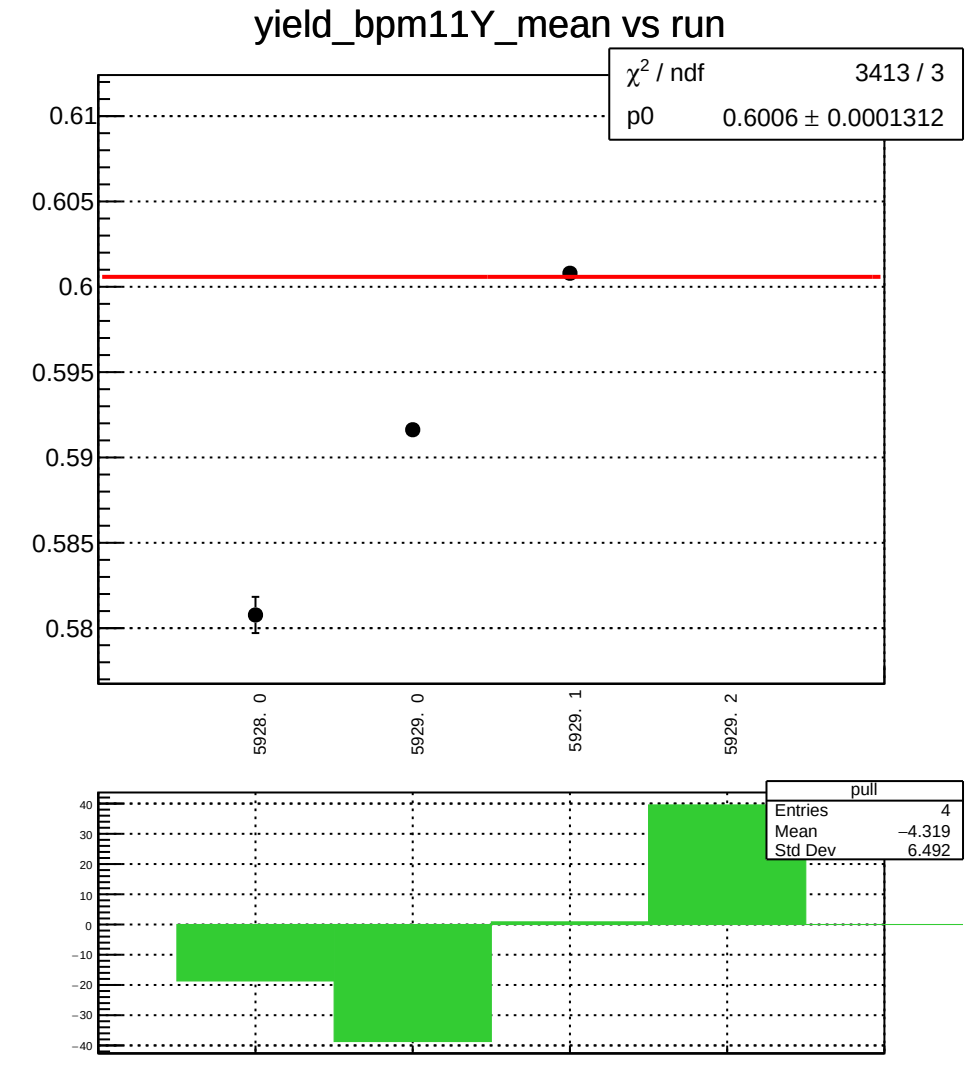

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

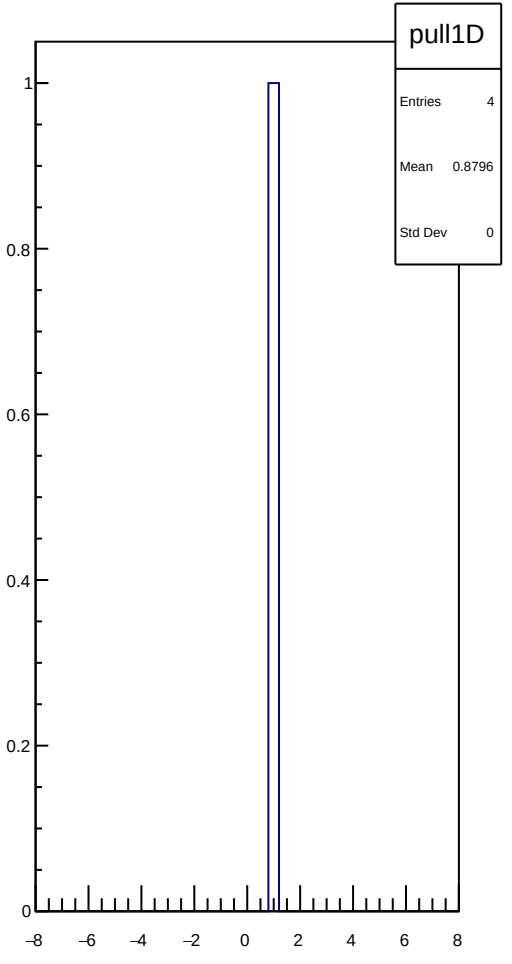

yield_bpm1Y_rms vs run
χ² / ndf 1.393e+04 / 3
p0 0.05775 ± 0.0002139
0.16
0.14
0.12
0.1
0.08
0.06
0.04
5928. 0
5929. 0
5929. 1
5929. 2

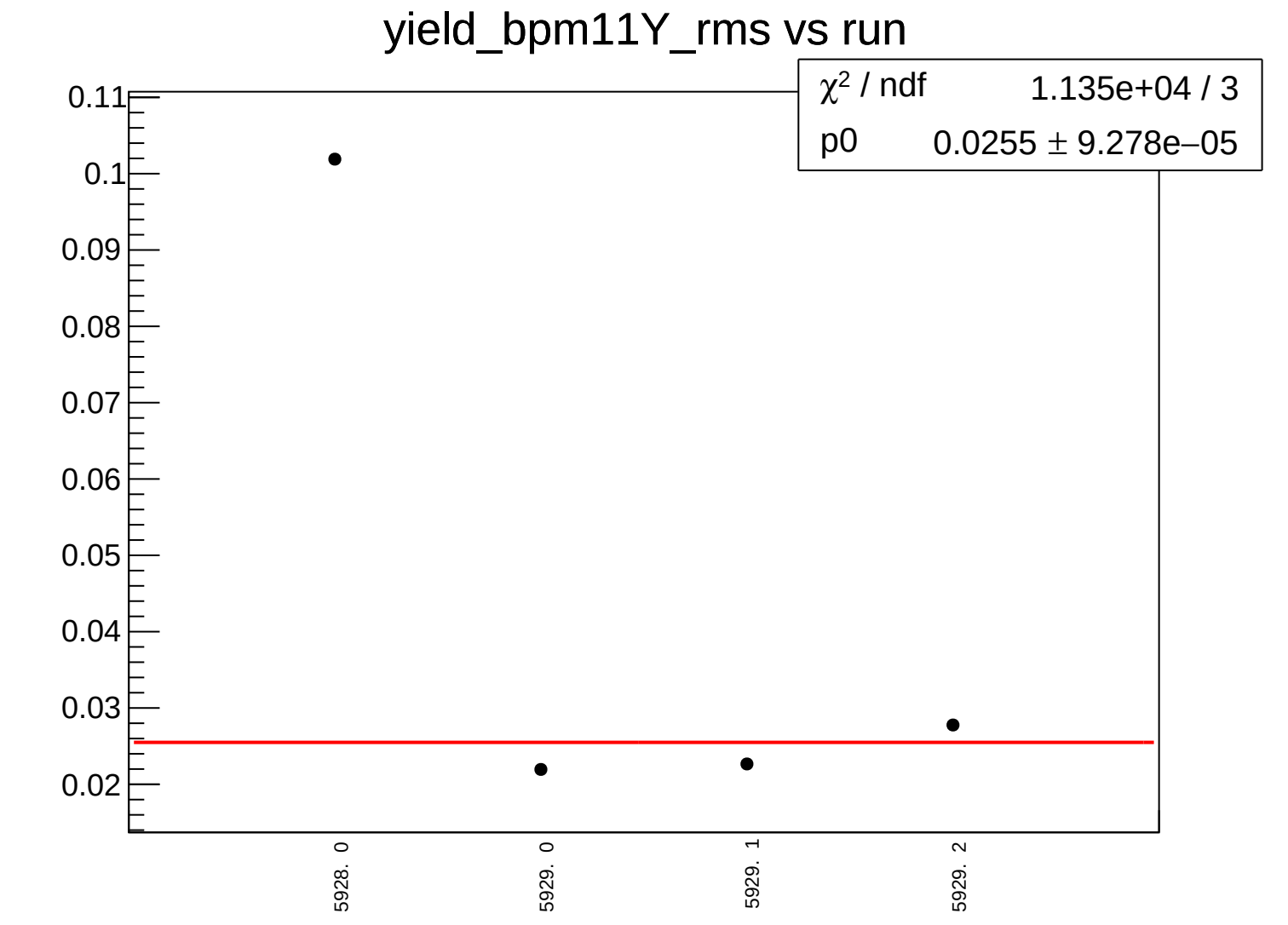

yield_bpm11X_mean vs run
χ² / ndf 2335 / 3
p0 0.9578 ± 9.302e−05
0.964
0.962
0.96
0.958
0.956
0.954
0.952
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.397
Std Dev 1.267
20
10
0
−10
−20
−30
−40

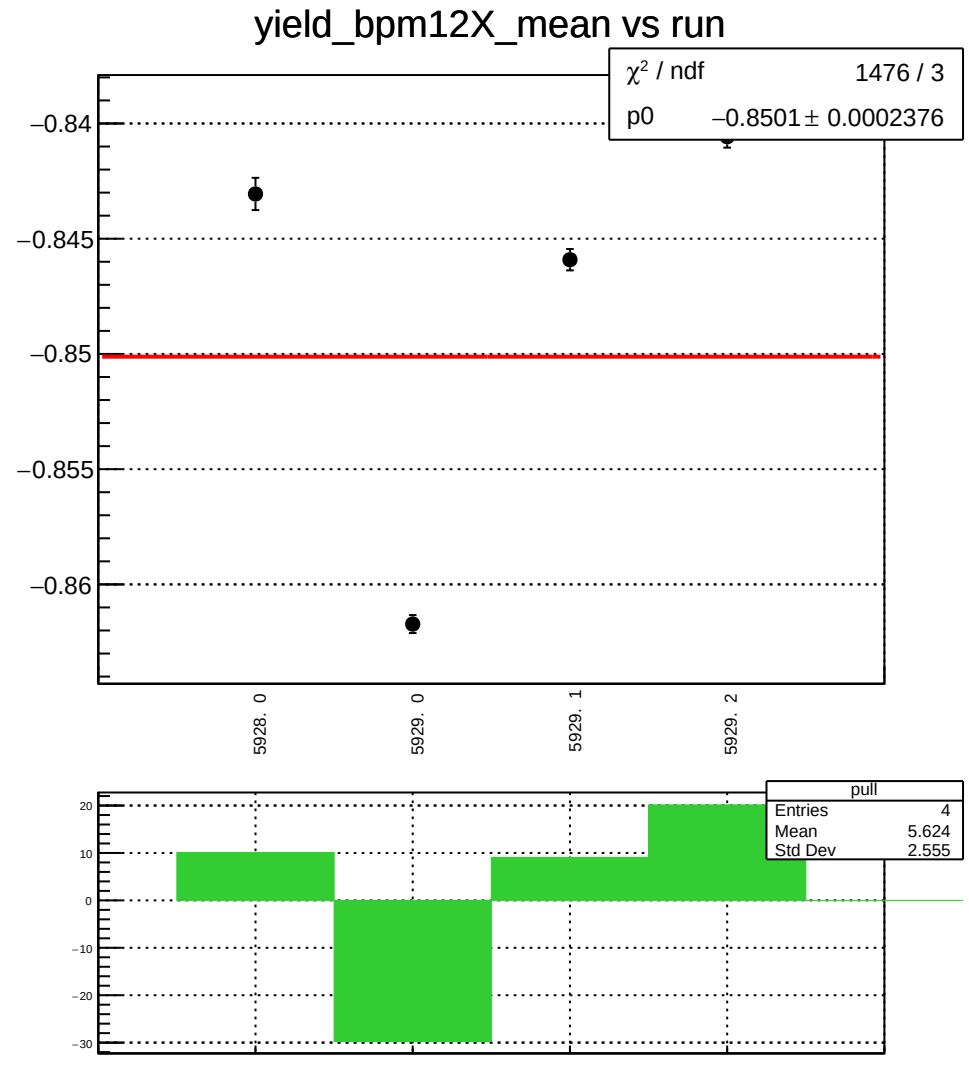

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

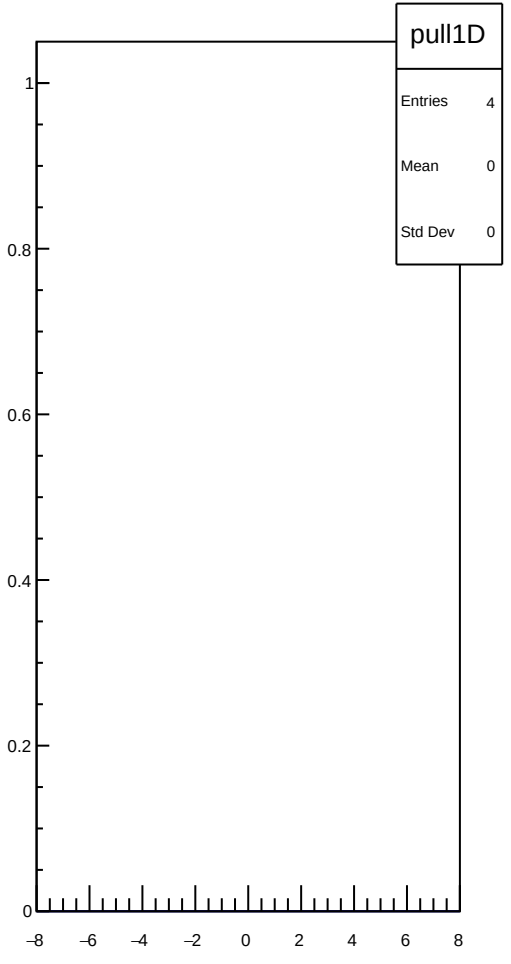

yield_bpm11X_rms vs run
χ² / ndf 3753 / 3
p0 0.01896 ± 6.577e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
5928. 0
5929. 0
5929. 1
5929. 2

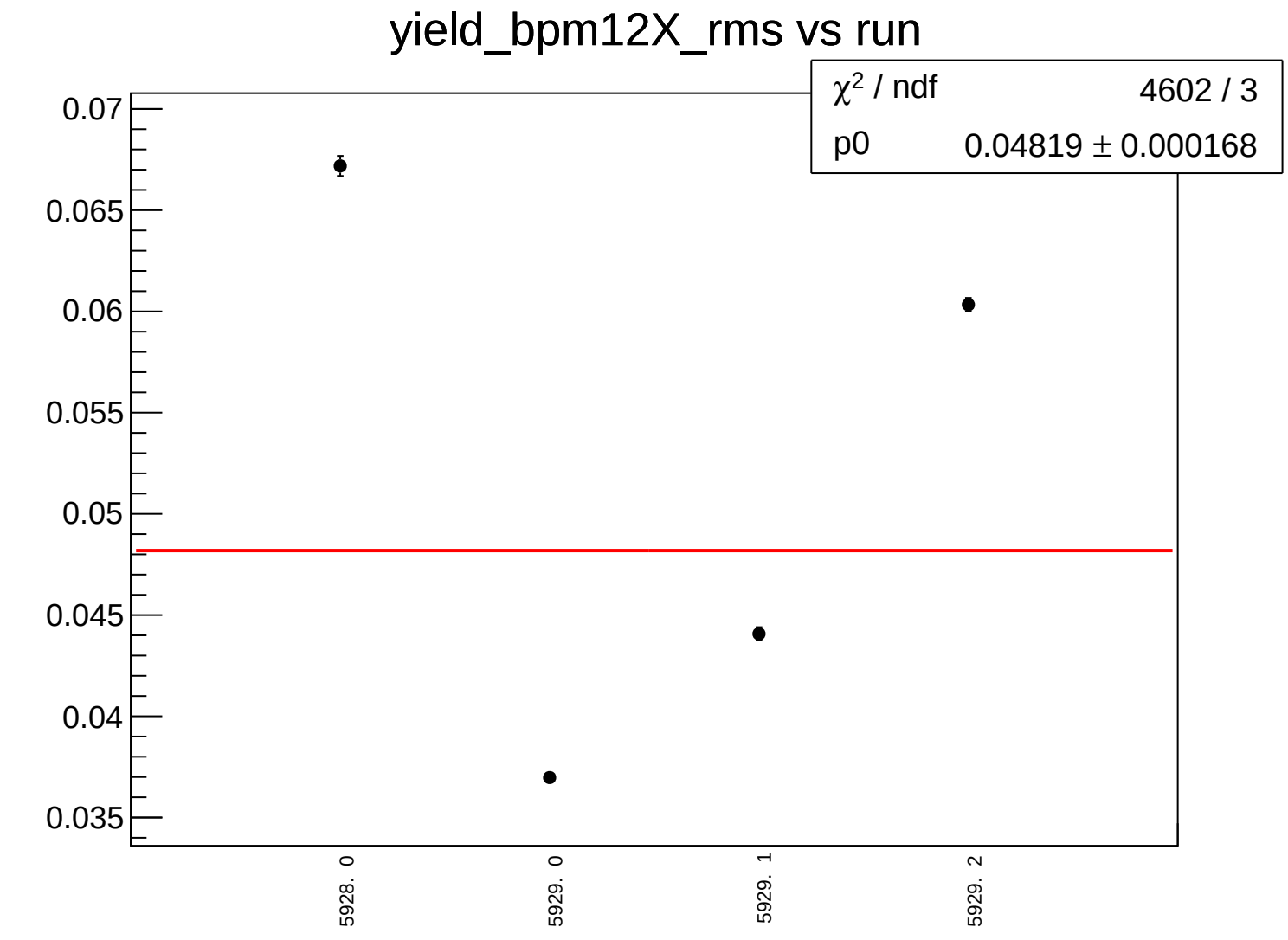

yield_bpm11Y_mean vs run
χ² / ndf 3413 / 3
p0 0.6006 ± 0.0001312
0.61
0.605
0.6
0.595
0.59
0.585
0.58
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.319
Std Dev 6.492
40
30
20
10
0
−10
−20
−30
−40

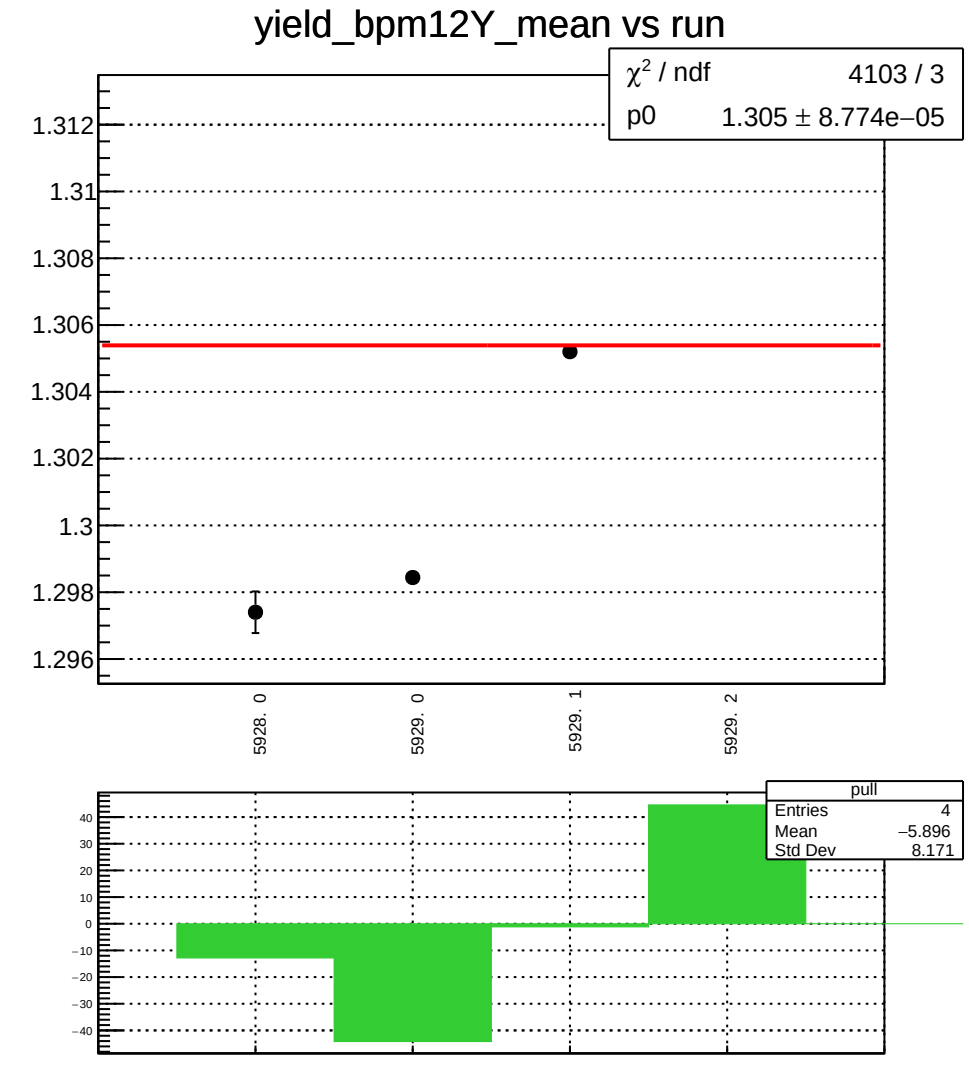

pull1D
Entries 4
Mean 0.8796
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

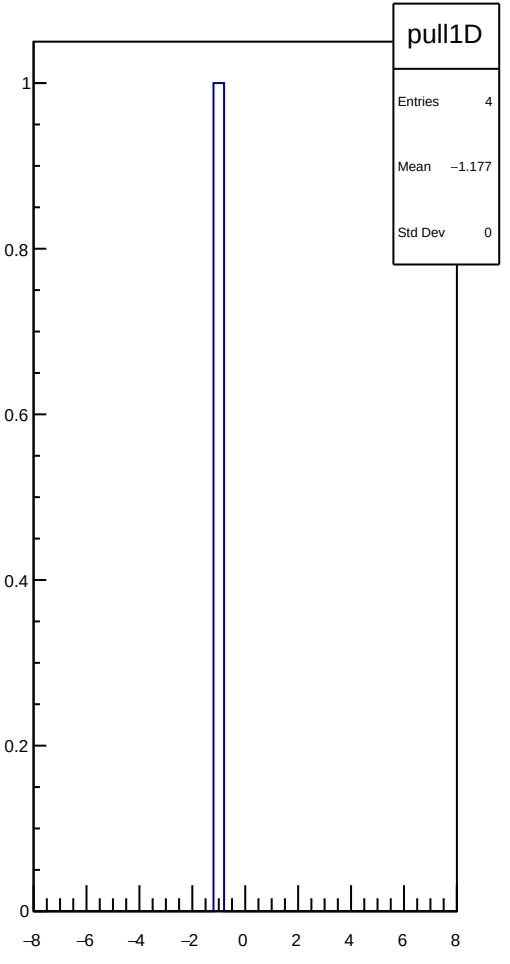

yield_bpm11Y_rms vs run
χ² / ndf 1.135e+04 / 3
p0 0.0255 ± 9.278e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

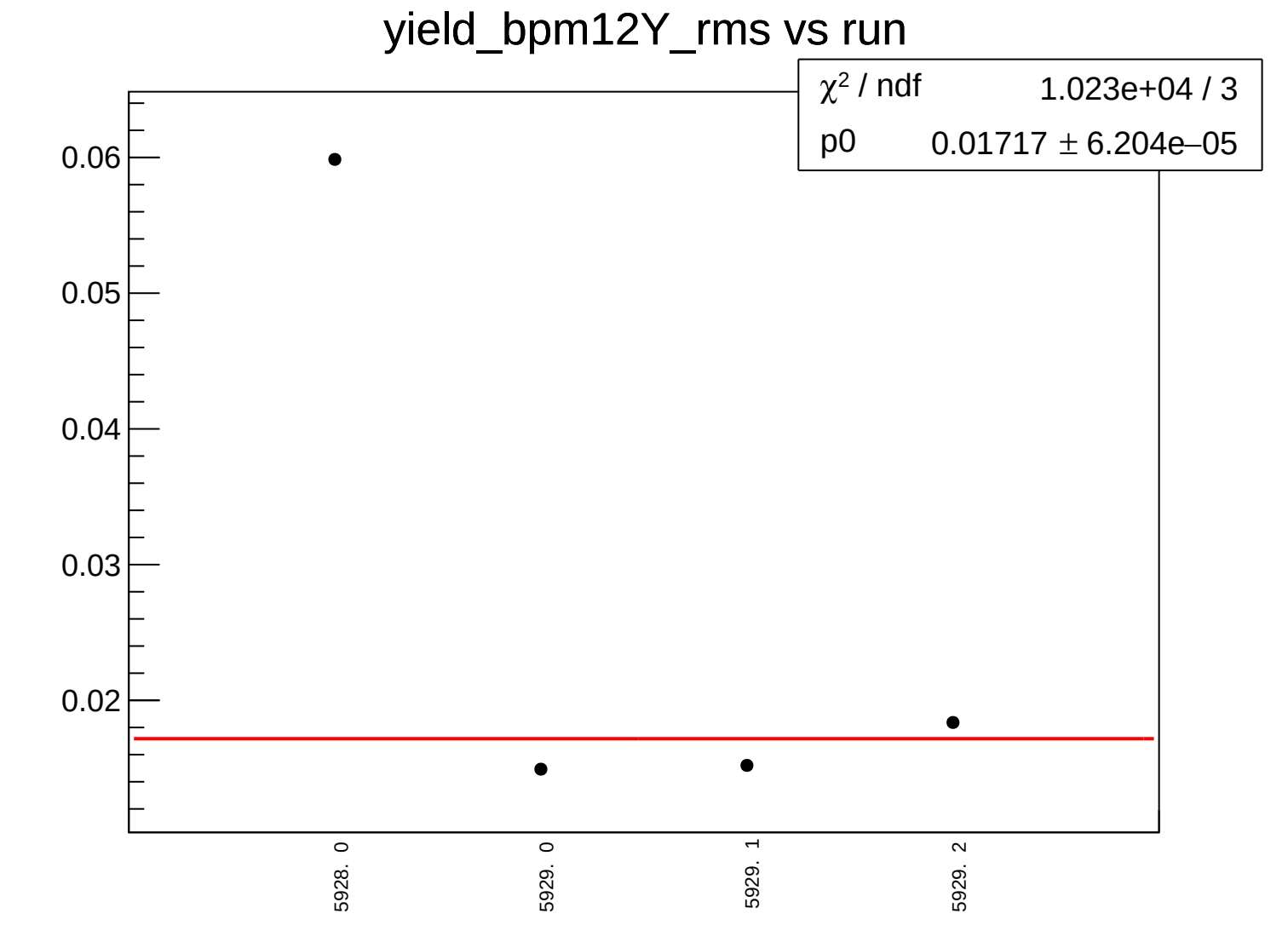

yield_bpm12X_mean vs run
χ² / ndf 1476 / 3
p0 −0.8501 ± 0.0002376
−0.84
−0.845
−0.85
−0.855
−0.86
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.624
Std Dev 2.555
20
10
0
−10
−20
−30

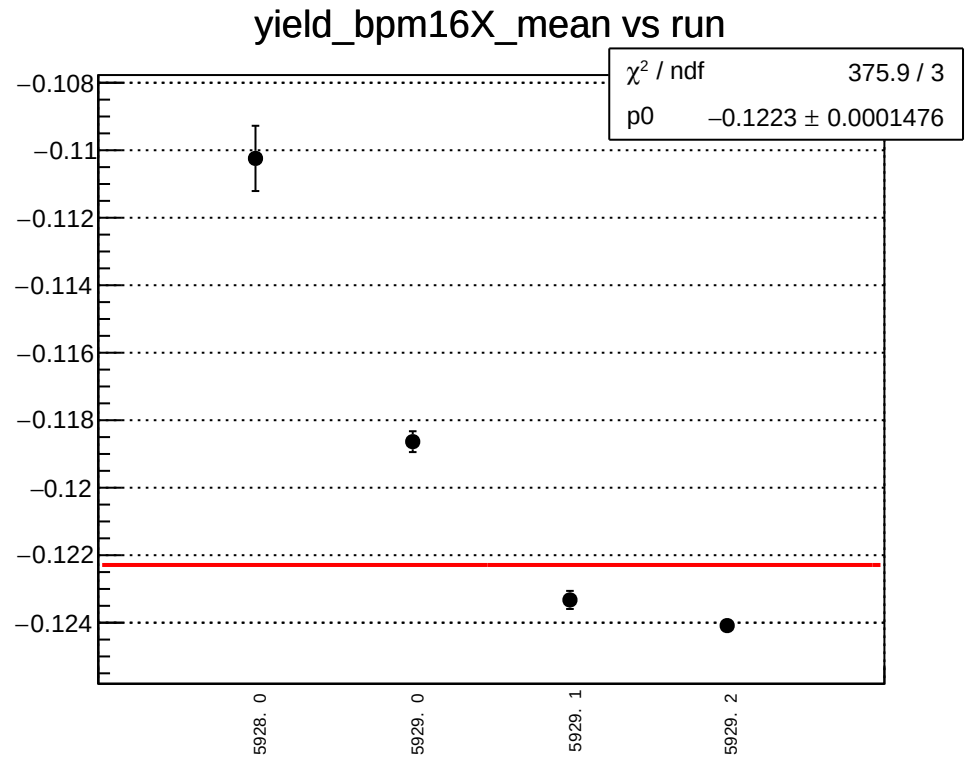

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

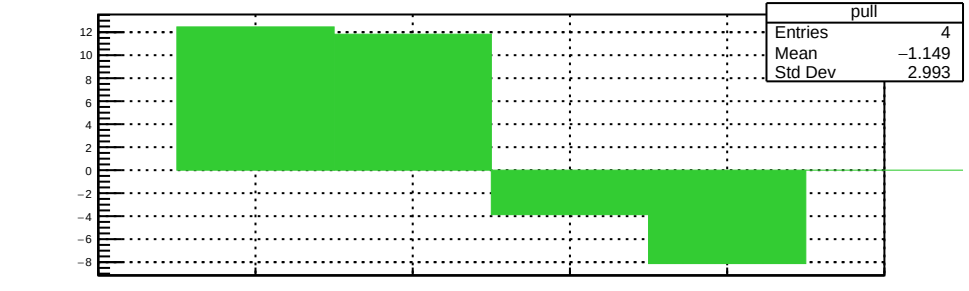

yield_bpm12X_rms vs run
χ² / ndf 4602 / 3
p0 0.04819 ± 0.000168
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
5928. 0
5929. 0
5929. 1
5929. 2

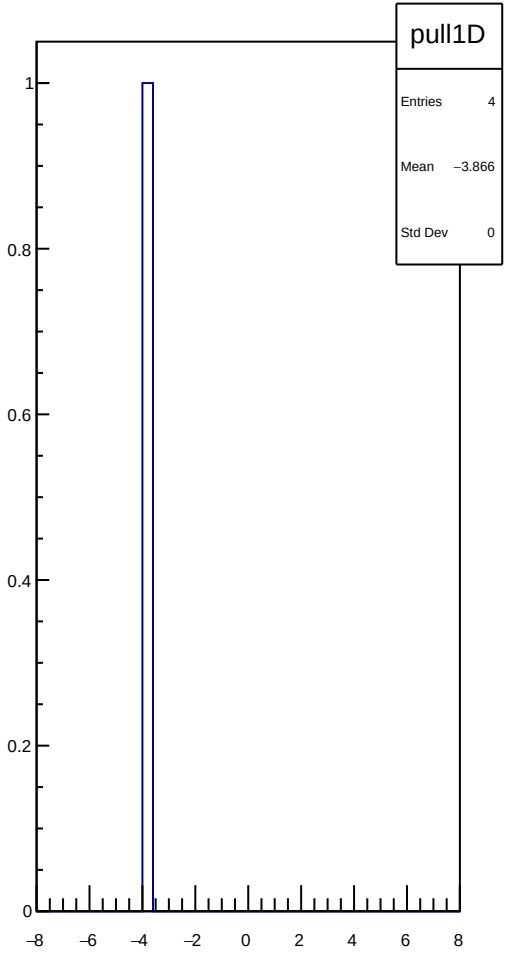

yield_bpm12Y_mean vs run
χ² / ndf 4103 / 3
p0 1.305 ± 8.774e−05
1.312
1.31
1.308
1.306
1.304
1.302
1.3
1.298
1.296
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.896
Std Dev 8.171
40
30
20
10
0
−10
−20
−30
−40

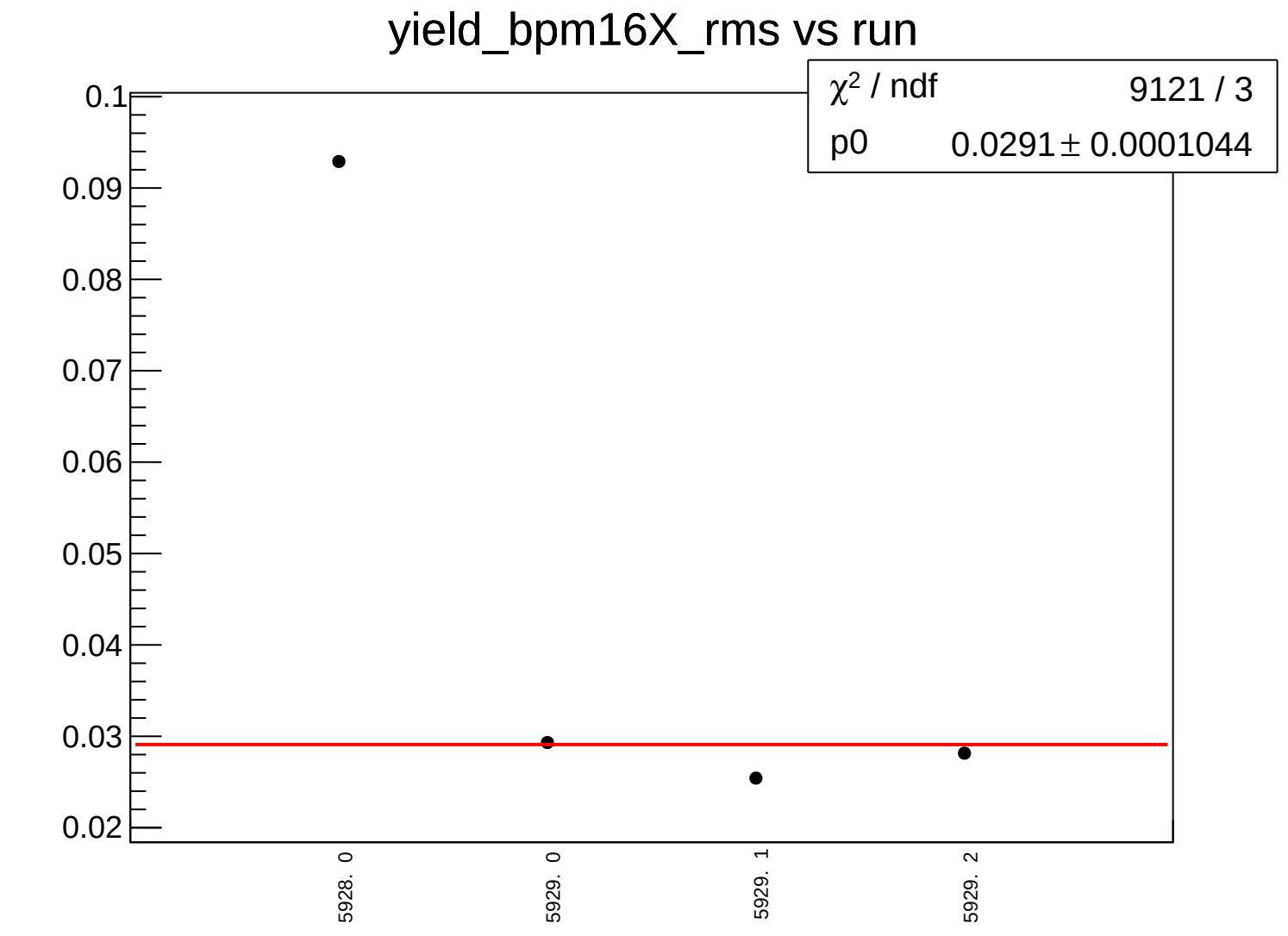

pull1D
Entries 4
Mean −1.177
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

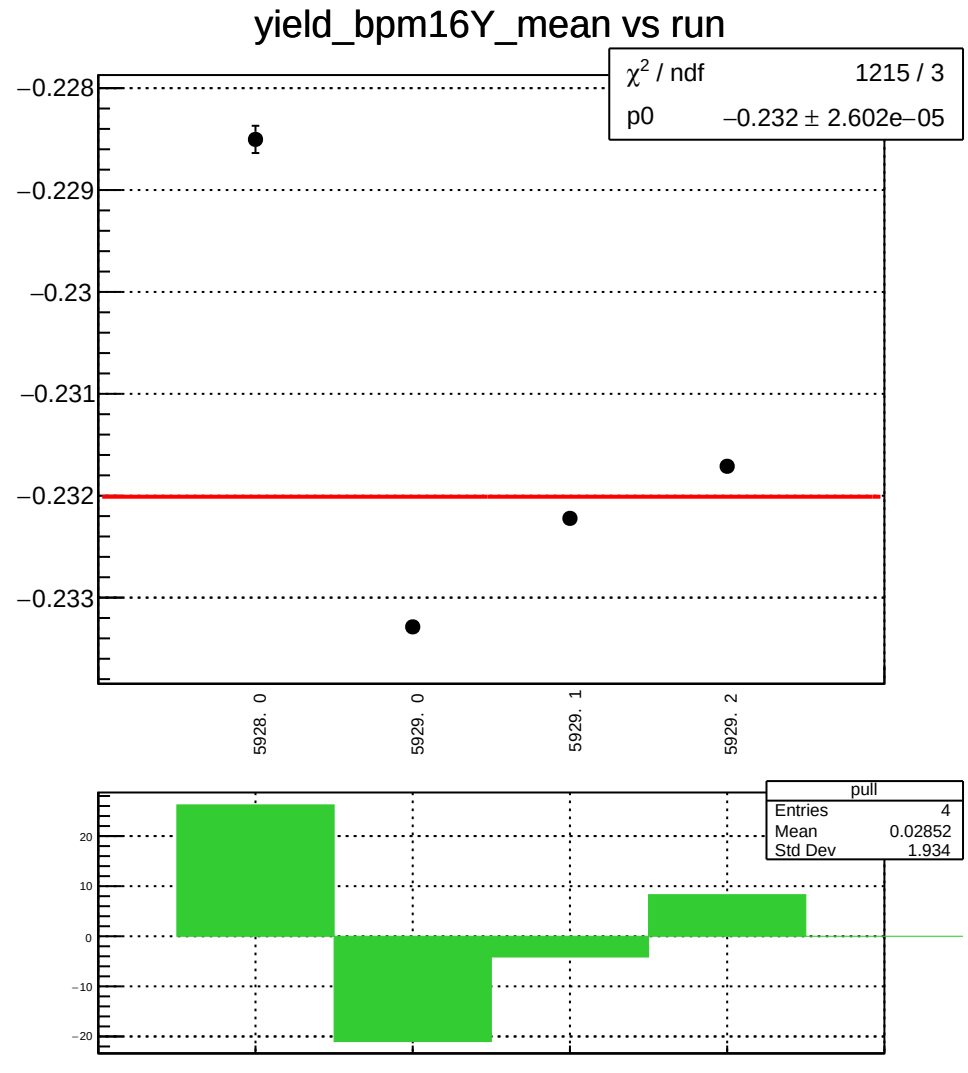

yield_bpm12Y_rms vs run
χ² / ndf 1.023e+04 / 3
p0 0.01717 ± 6.204e−05
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

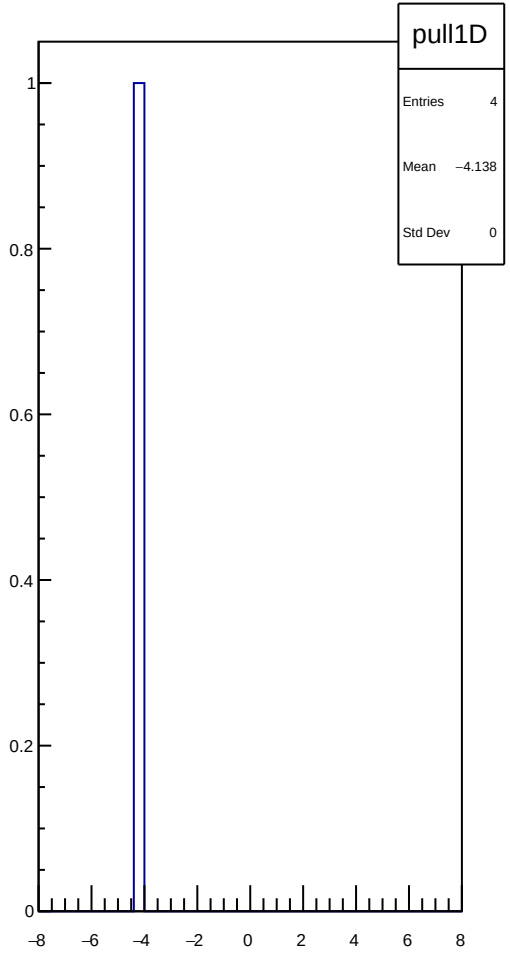

yield_bpm16X_mean vs run
χ² / ndf 375.9 / 3
p0 −0.1223 ± 0.0001476
−0.108
−0.11
−0.112
−0.114
−0.116
−0.118
−0.12
−0.122
−0.124
5928. 0
5929. 0
5929. 1
5929. 2

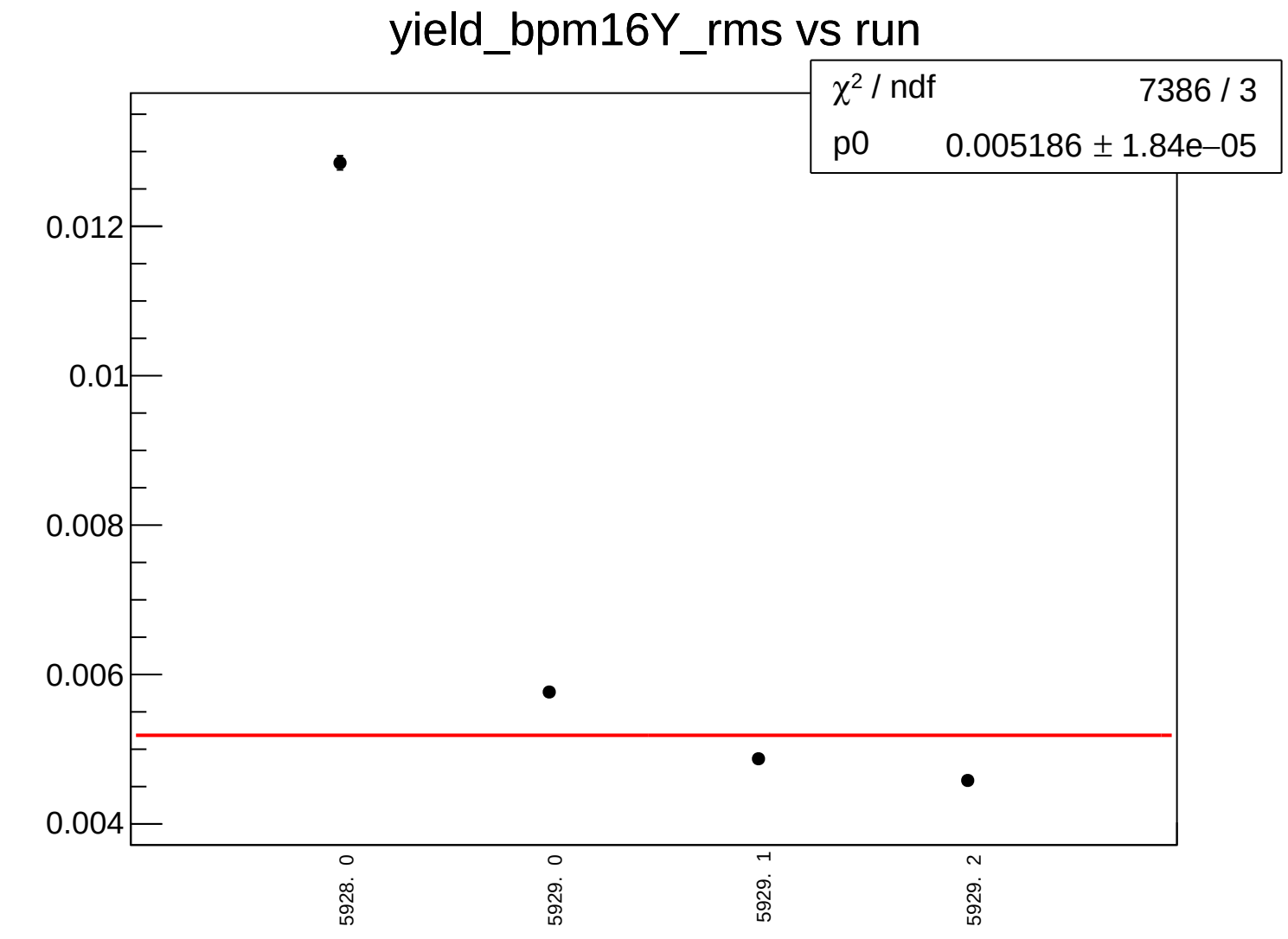

pull
Entries 4
Mean −1.149
Std Dev 2.993
12
10
8
6
4
2
0
−2
−4
−6
−8

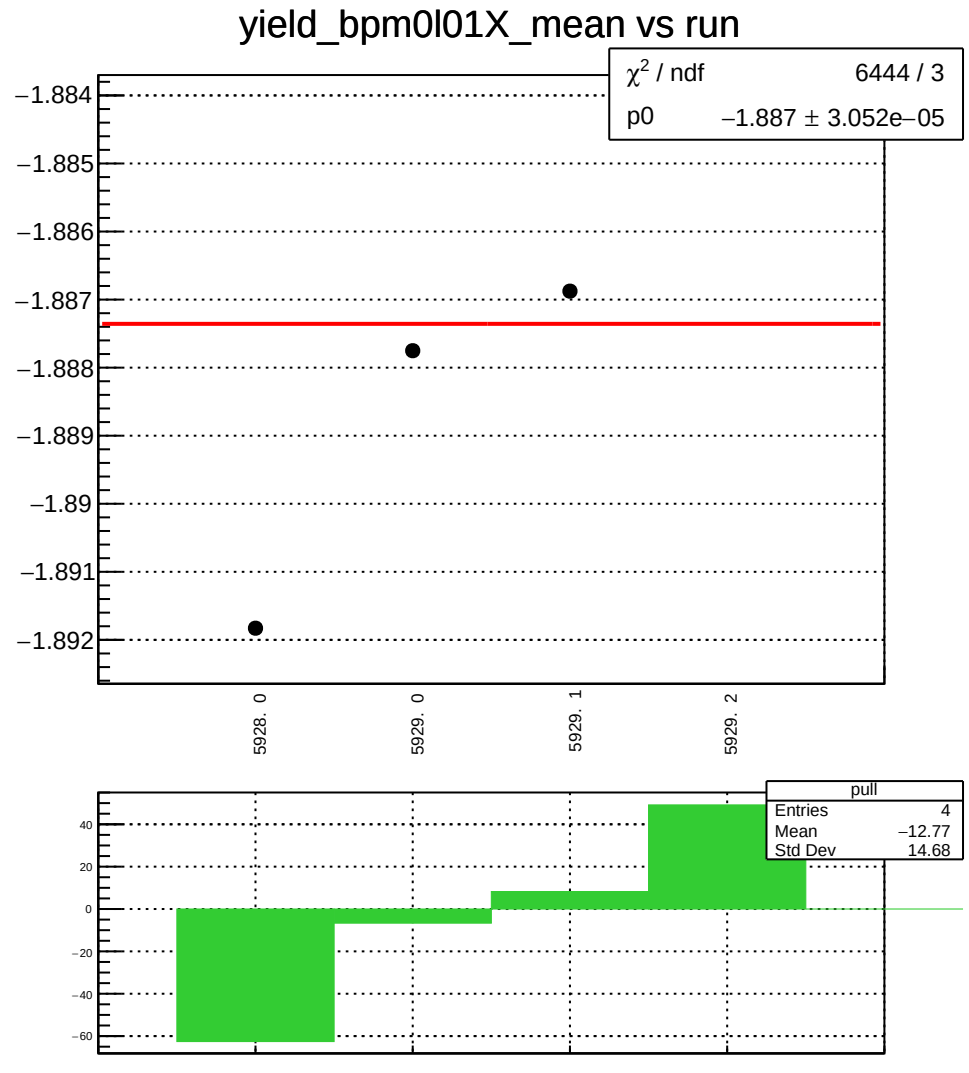

pull1D
Entries 4
Mean −3.866
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

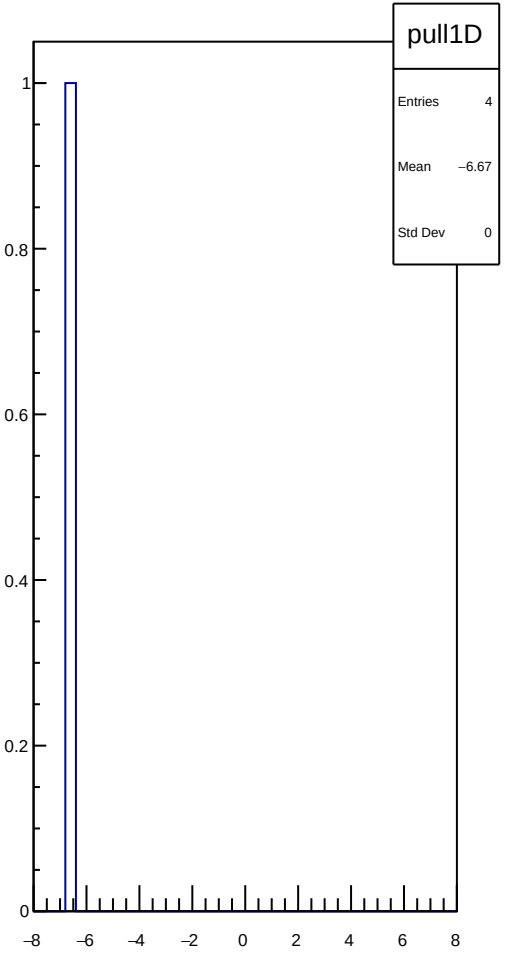

yield_bpm16X_rms vs run
χ² / ndf 9121 / 3
p0 0.0291 ± 0.0001044
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

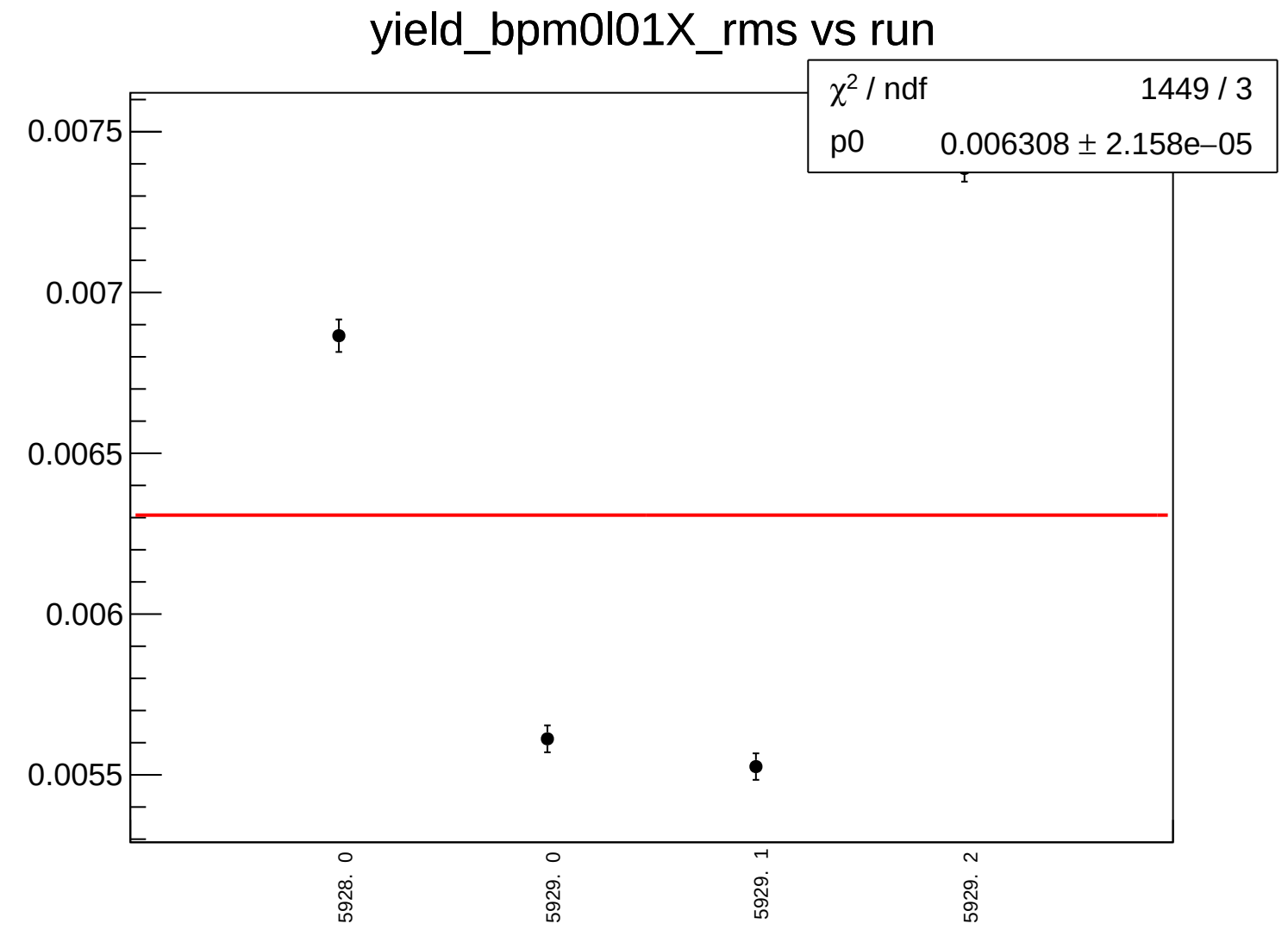

yield_bpm16Y_mean vs run
χ² / ndf 1215 / 3
p0 −0.232 ± 2.602e−05
−0.228
−0.229
−0.23
−0.231
−0.232
−0.233
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.02852
Std Dev 1.934
20
10
0
−10
−20

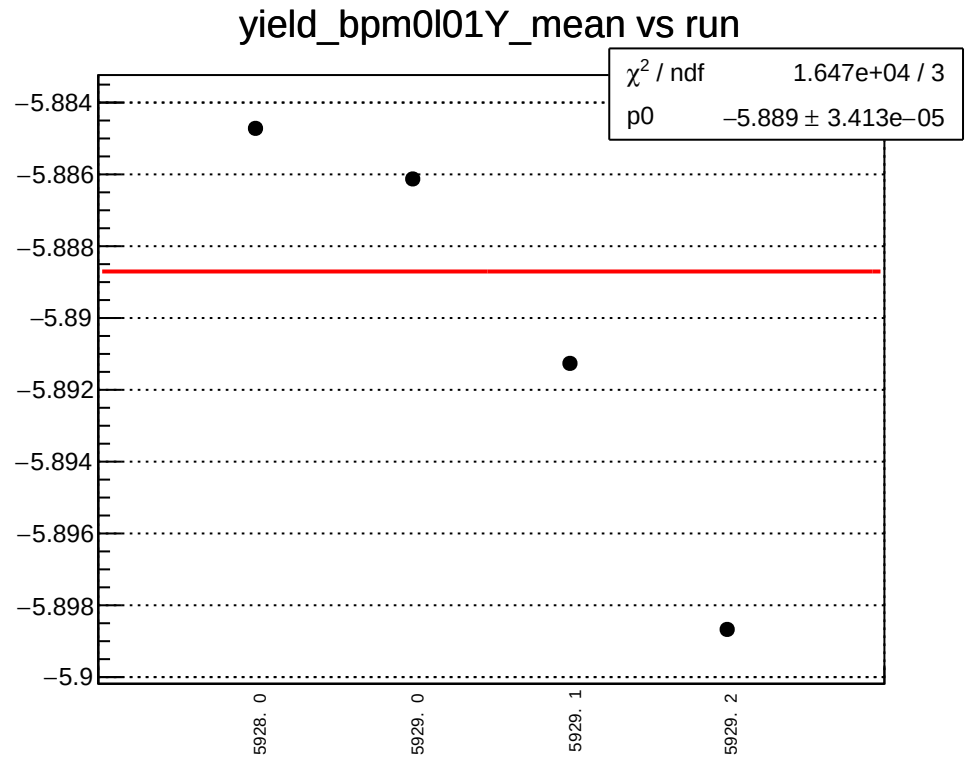

pull1D
Entries 4
Mean −4.138
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

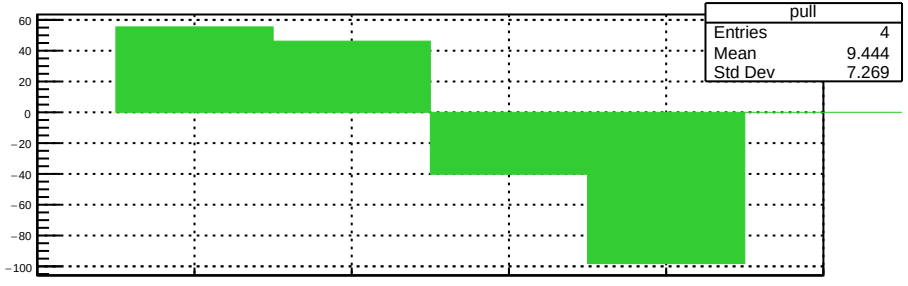

yield_bpm16Y_rms vs run
χ² / ndf 7386 / 3
p0 0.005186 ± 1.84e–05
0.012
0.01
0.008
0.006
0.004
5928. 0
5929. 0
5929. 1
5929. 2

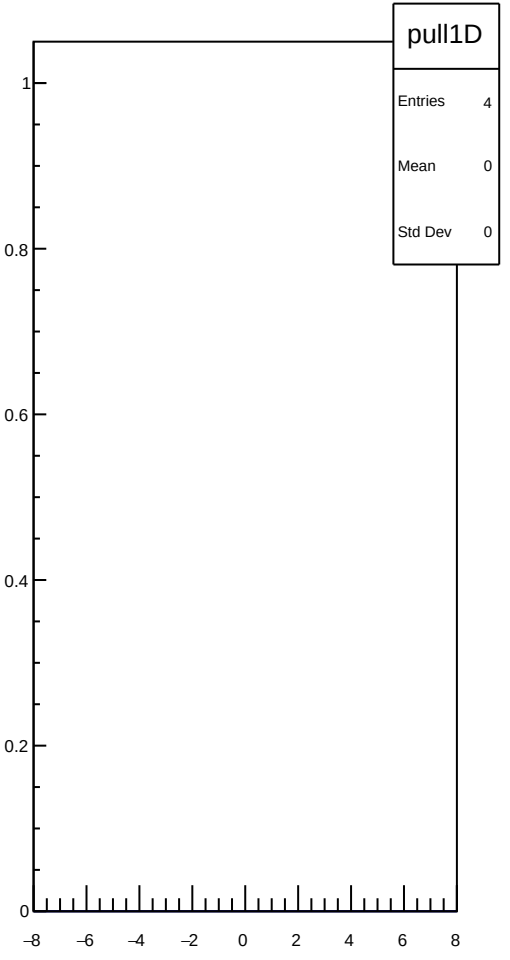

yield_bpm0l01X_mean vs run
χ² / ndf 6444 / 3
p0 −1.887 ± 3.052e−05
−1.884
−1.885
−1.886
−1.887
−1.888
−1.889
−1.89
−1.891
−1.892
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.77
Std Dev 14.68
40
20
0
−20
−40
−60

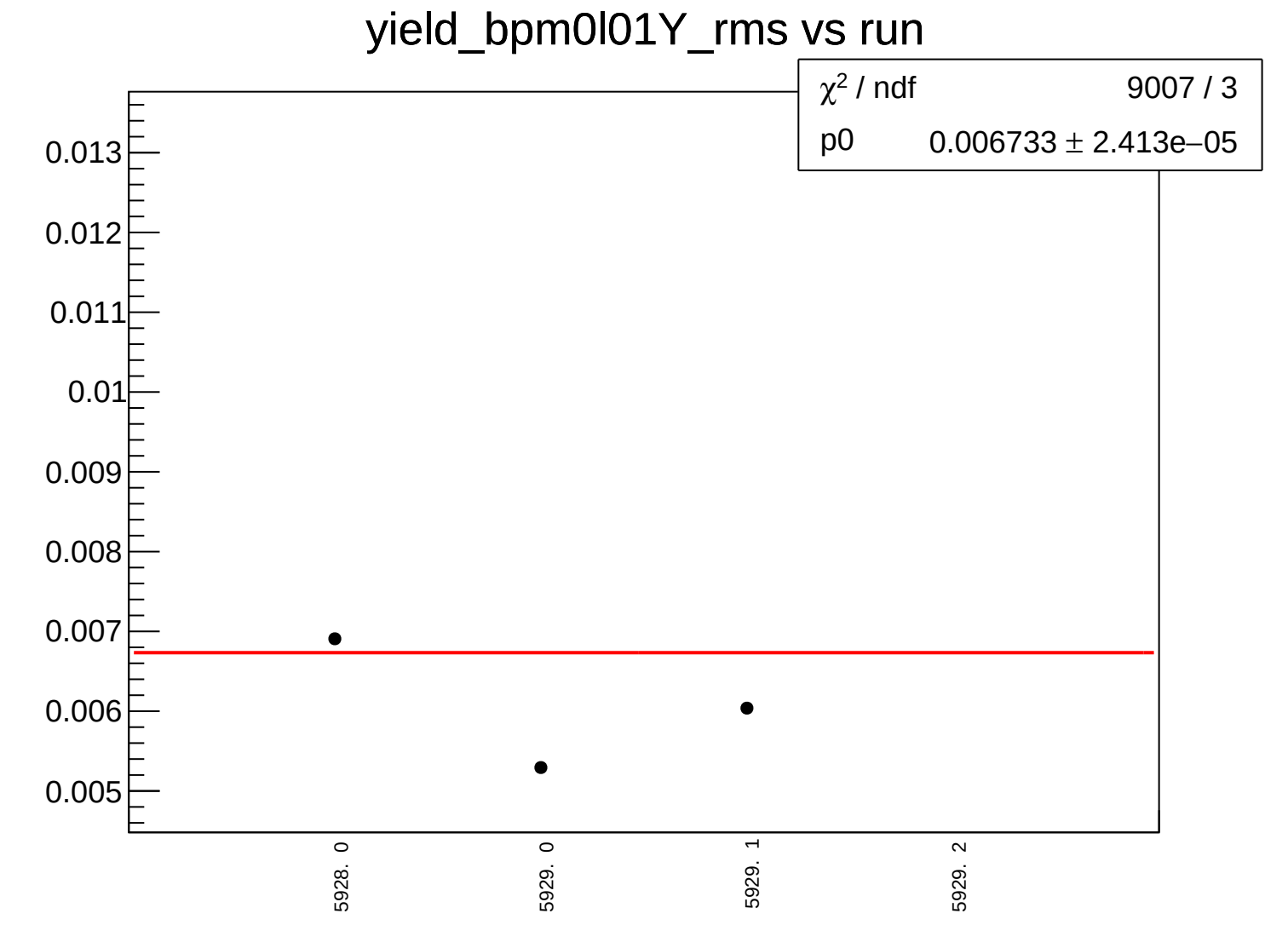

pull1D
Entries 4
Mean −6.67
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

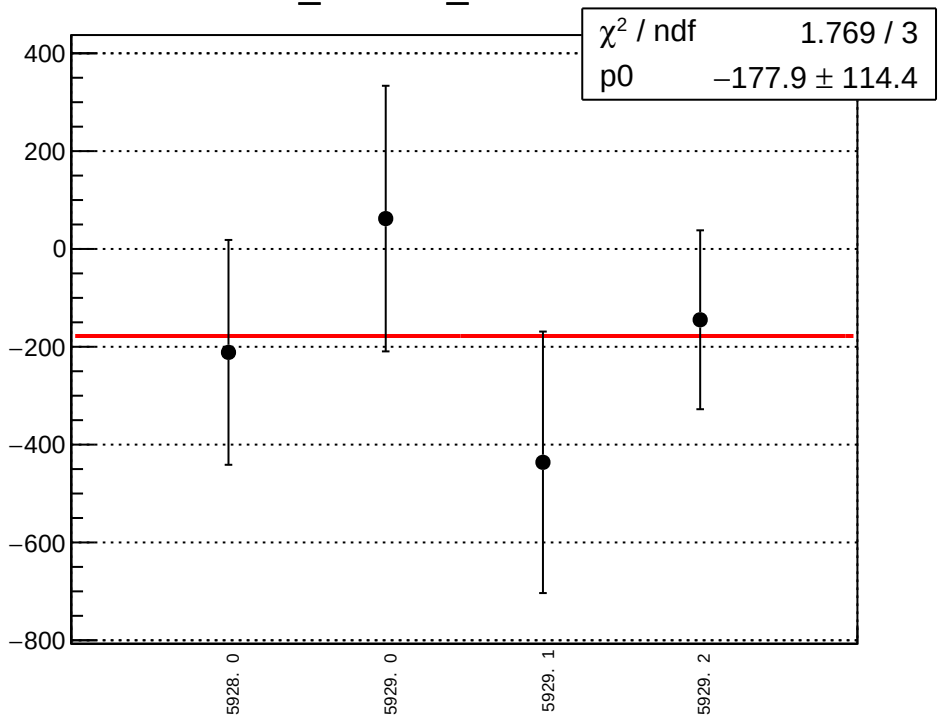

yield_bpm0l01X_rms vs run
χ² / ndf 1449 / 3
p0 0.006308 ± 2.158e−05
0.0075
0.007
0.0065
0.006
0.0055
5928. 0
5929. 0
5929. 1
5929. 2

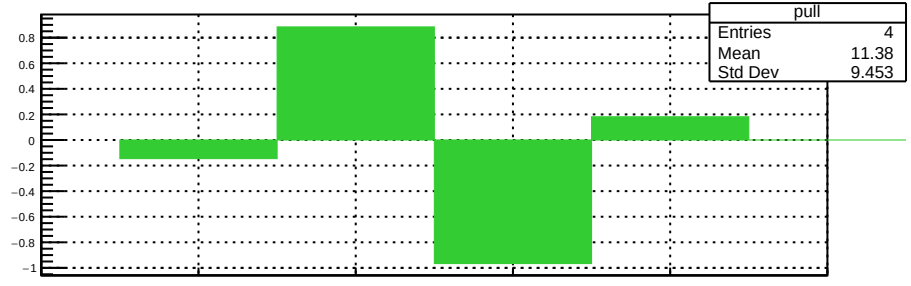

yield_bpm0l01Y_mean vs run
χ² / ndf 1.647e+04 / 3
p0 −5.889 ± 3.413e−05
−5.884
−5.886
−5.888
−5.89
−5.892
−5.894
−5.896
−5.898
−5.9
5928. 0
5929. 0
5929. 1
5929. 2

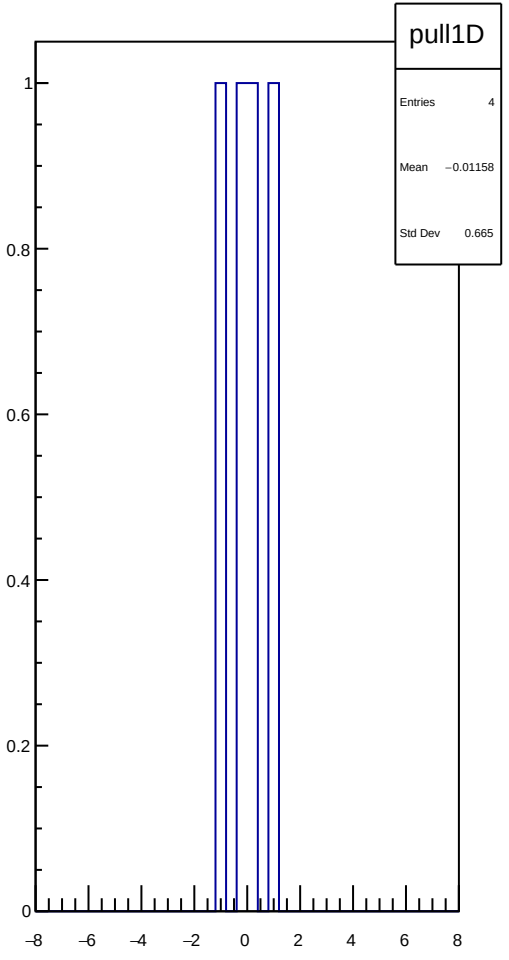

pull
Entries 4
Mean 9.444
Std Dev 7.269
60
40
20
0
−20
−40
−60
−80
−100

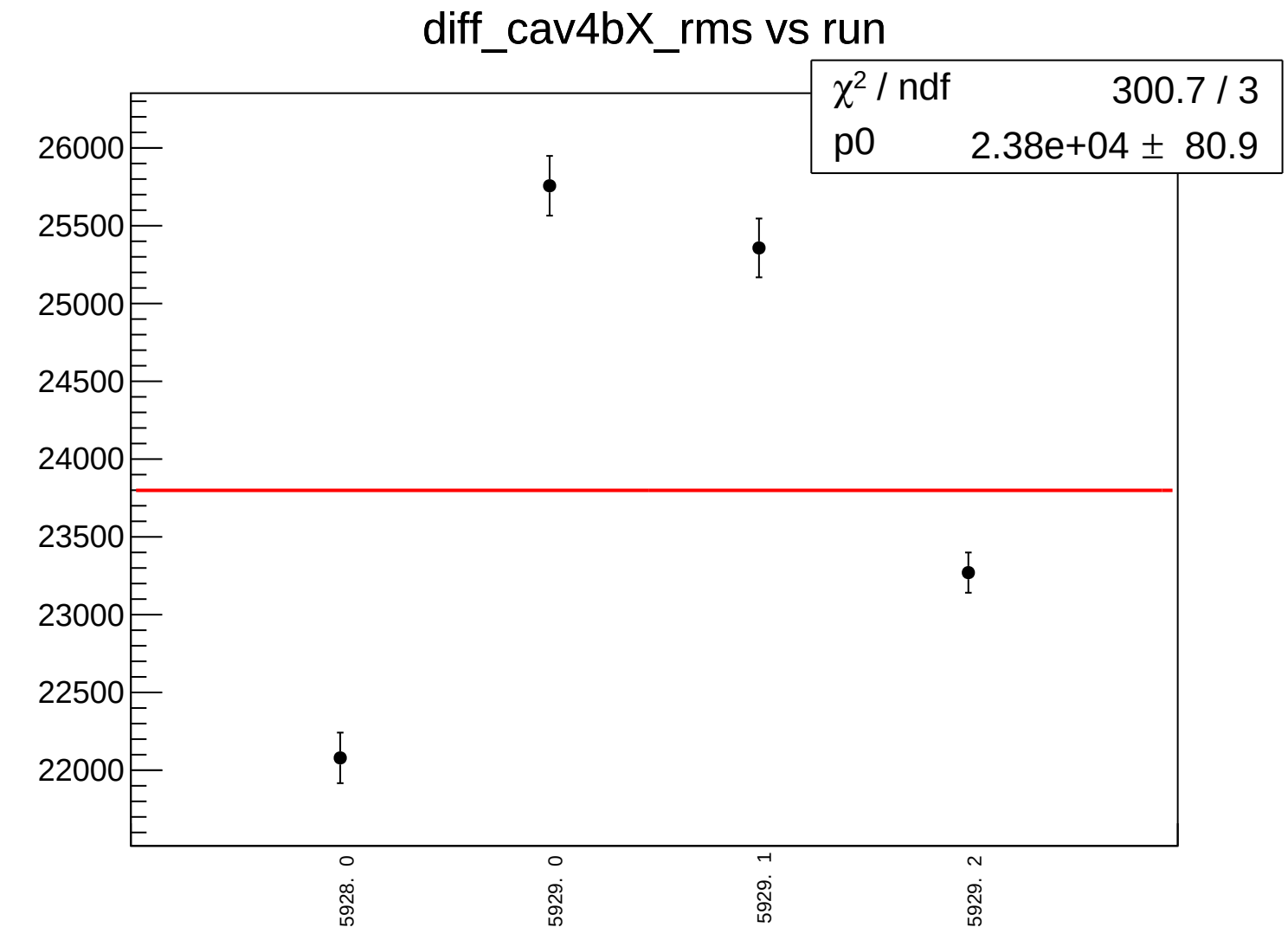

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

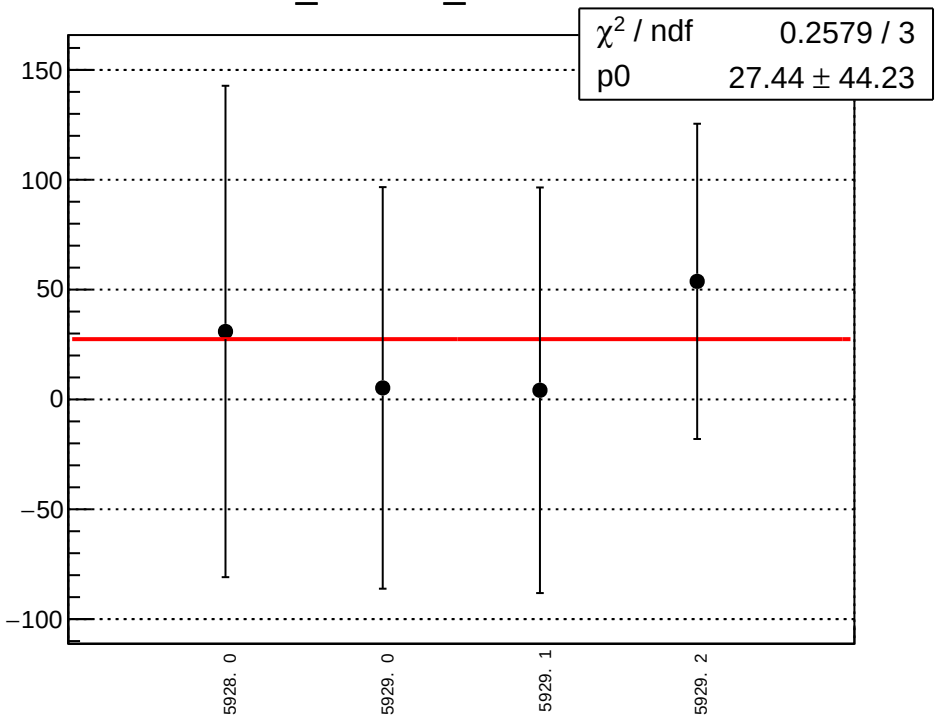

yield_bpm0l01Y_rms vs run
χ² / ndf 9007 / 3
p0 0.006733 ± 2.413e−05
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5928. 0
5929. 0
5929. 1
5929. 2

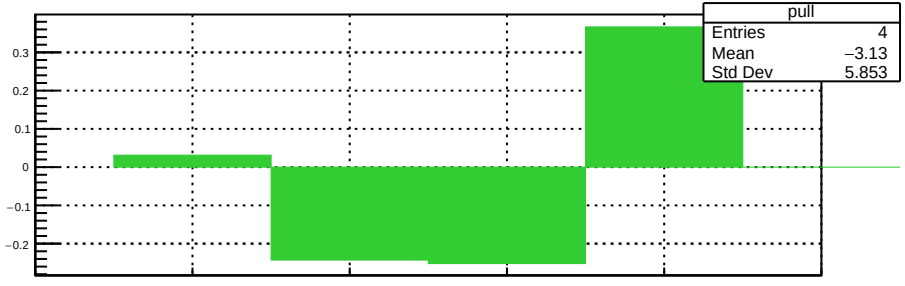

diff_cav4bX_mean vs run
χ² / ndf 1.769 / 3
p0 −177.9 ± 114.4
400
200
0
−200
−400
−600
−800
5928. 0
5929. 0
5929. 1
5929. 2

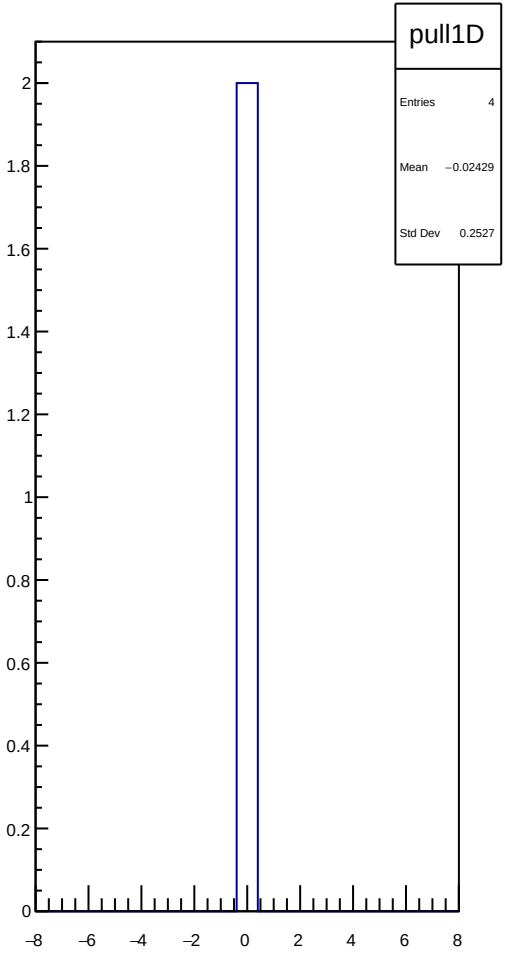

pull
Entries 4
Mean 11.38
Std Dev 9.453
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

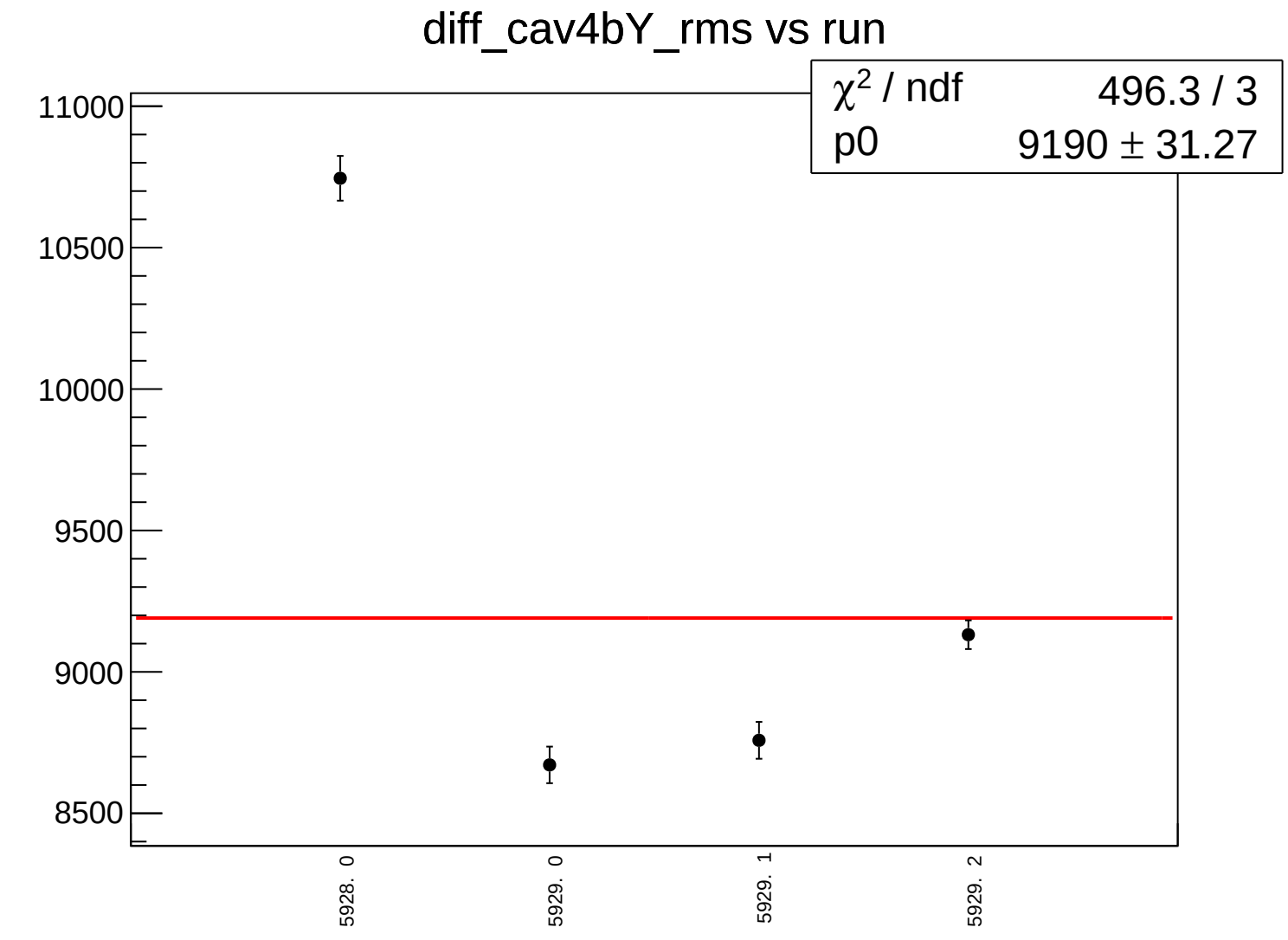

pull1D
Entries 4
Mean −0.01158
Std Dev 0.665
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

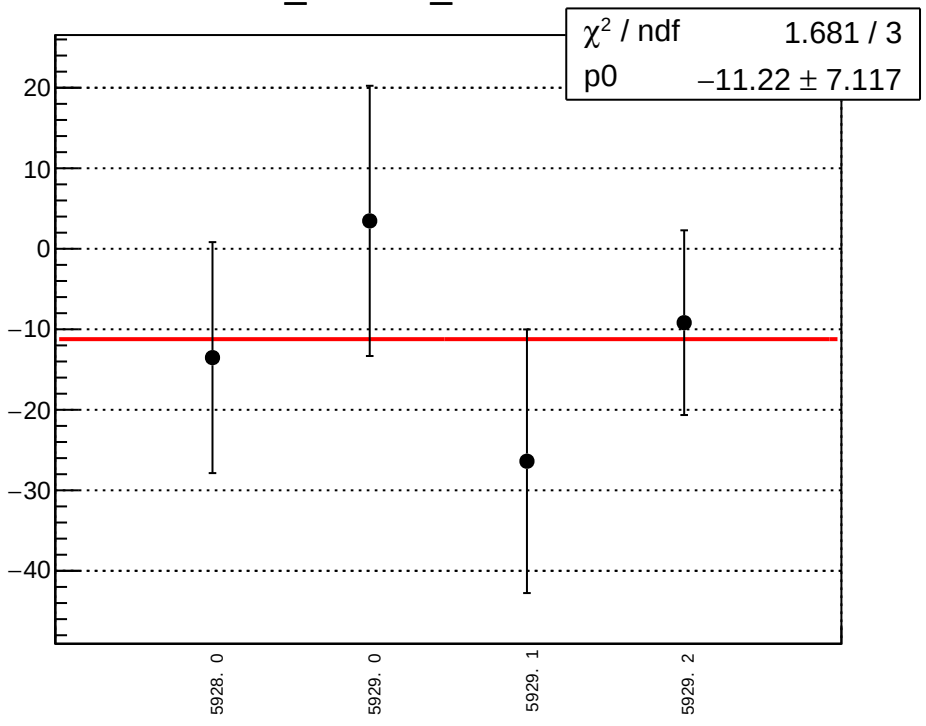

diff_cav4bX_rms vs run
χ² / ndf 300.7 / 3
p0 2.38e+04 ± 80.9
26000
25500
25000
24500
24000
23500
23000
22500
22000
5928. 0
5929. 0
5929. 1
5929. 2

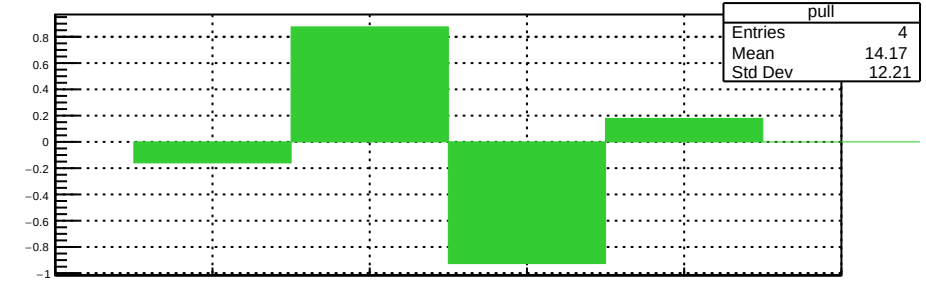

diff_cav4bY_mean vs run
χ² / ndf 0.2579 / 3
p0 27.44 ± 44.23
150
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2

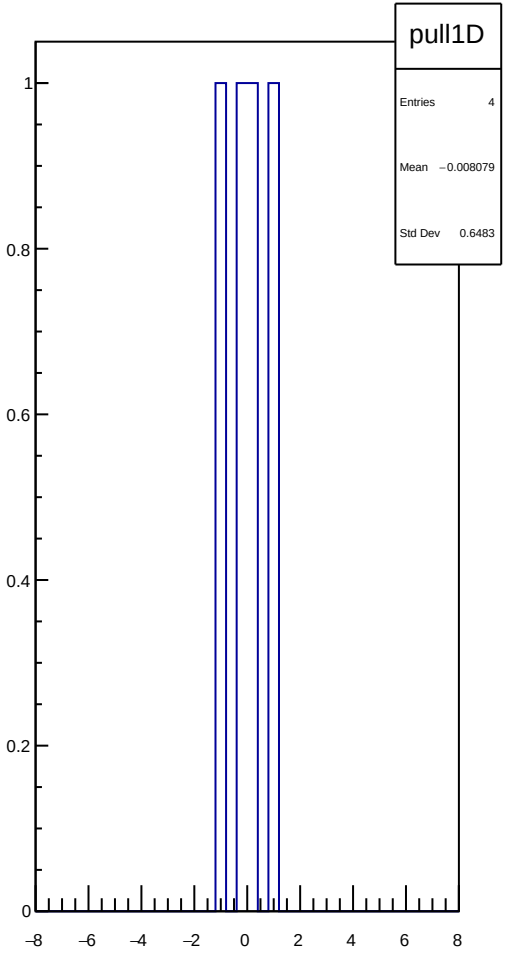

pull
Entries 4
Mean −3.13
Std Dev 5.853
0.3
0.2
0.1
0
−0.1
−0.2

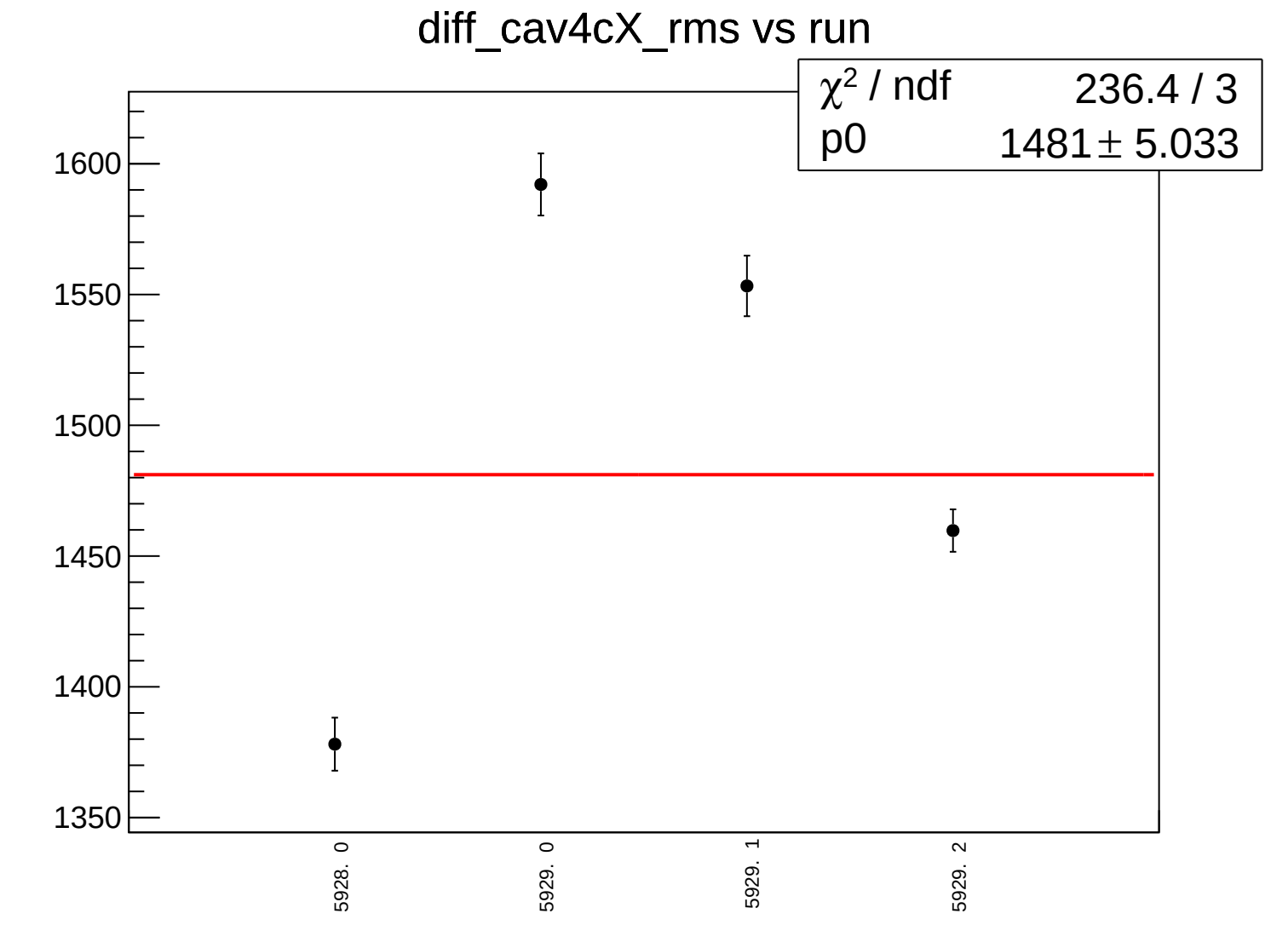

pull1D
Entries 4
Mean −0.02429
Std Dev 0.2527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

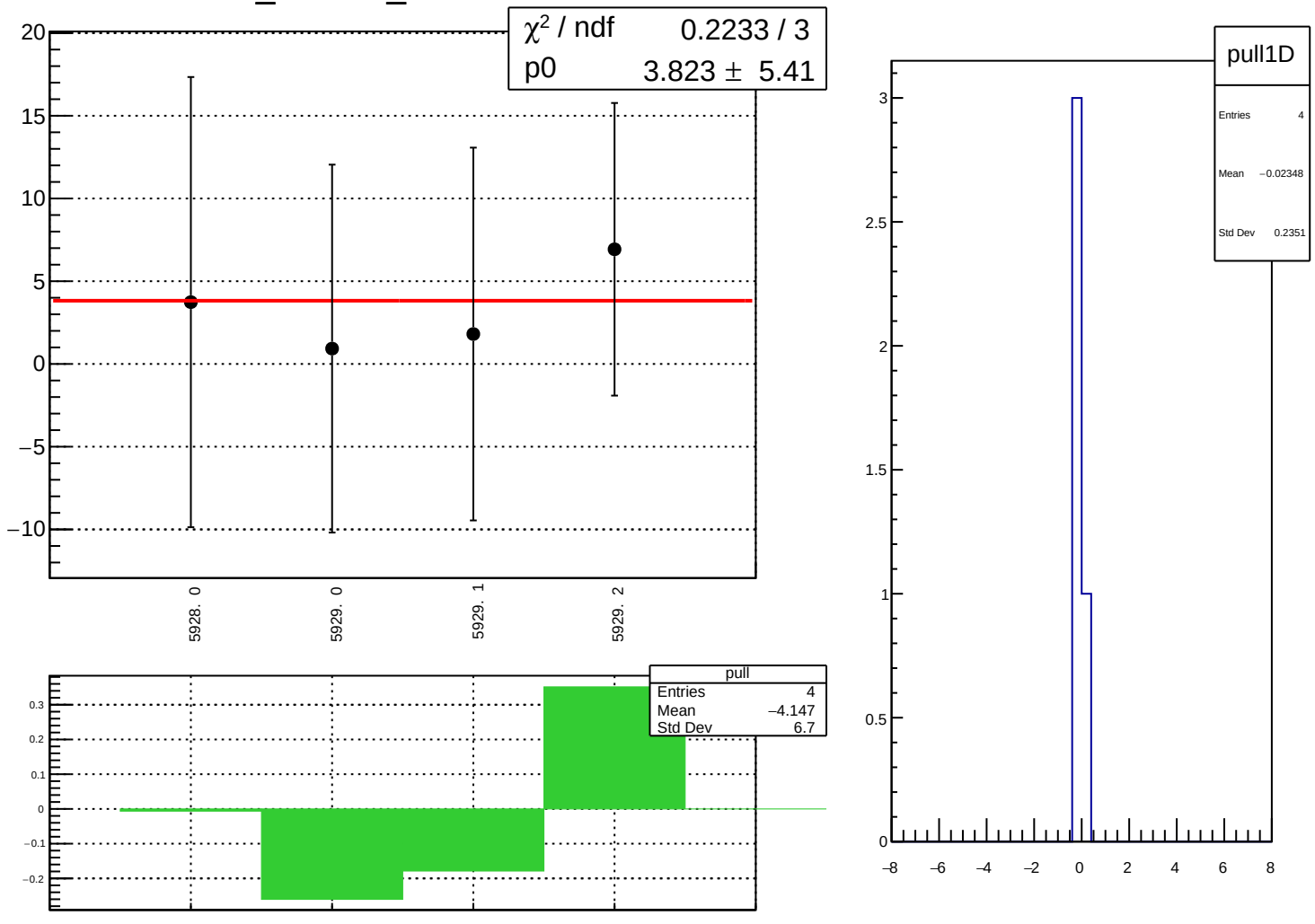

diff_cav4bY_rms vs run
χ² / ndf 496.3 / 3
p0 9190 ± 31.27
11000
10500
10000
9500
9000
8500
5928. 0
5929. 0
5929. 1
5929. 2

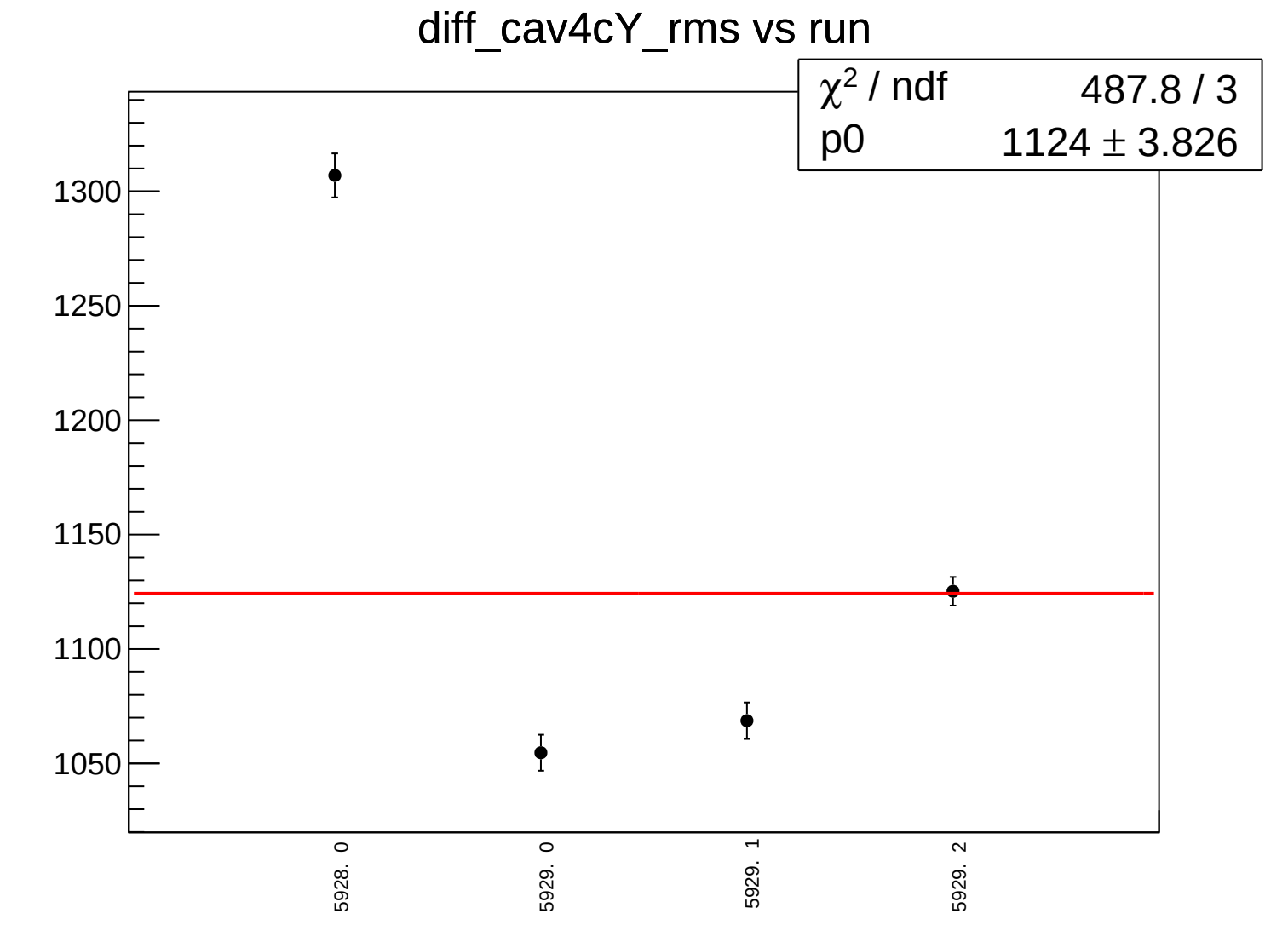

diff_cav4cX_mean vs run
χ² / ndf 1.681 / 3
p0 −11.22 ± 7.117
20
10
0
−10
−20
−30
−40
5928. 0
5929. 0
5929. 1
5929. 2

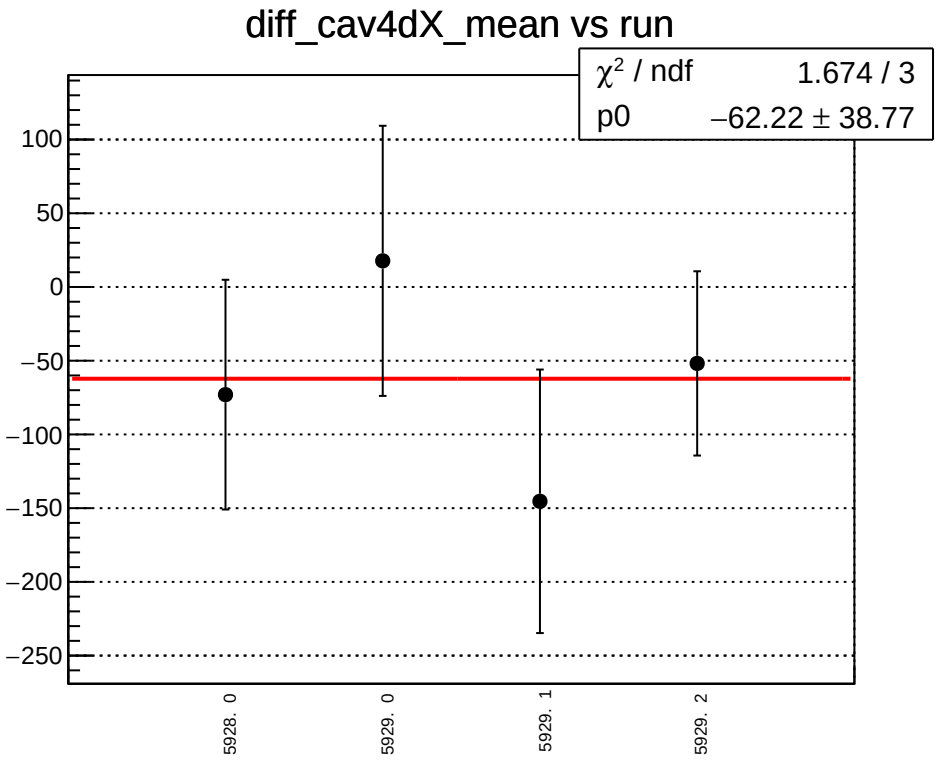

pull
Entries 4
Mean 14.17
Std Dev 12.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

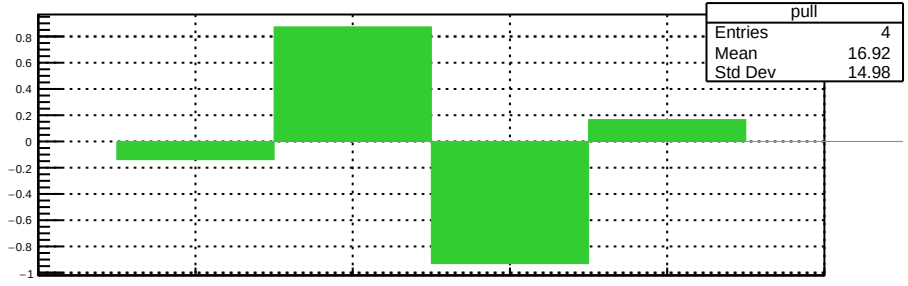

pull1D
Entries 4
Mean −0.008079
Std Dev 0.6483
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

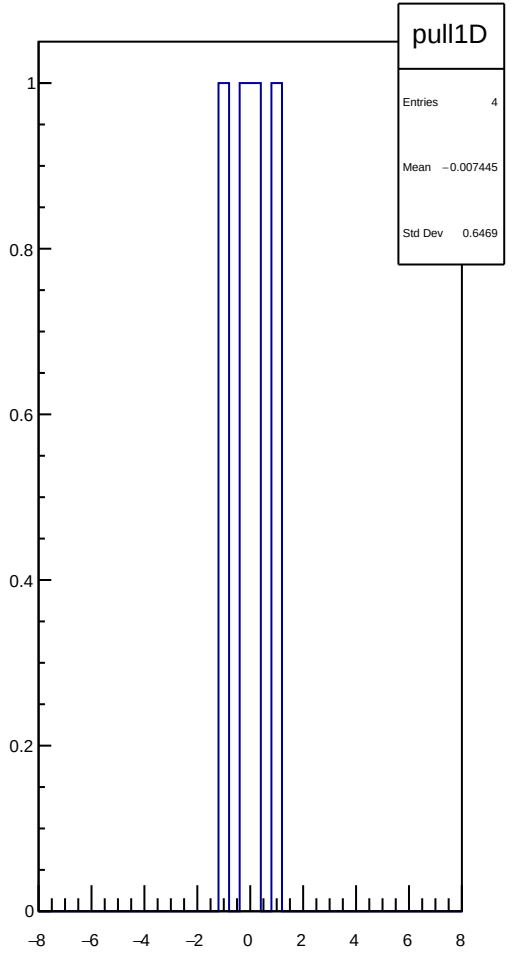

diff_cav4cX_rms vs run
χ² / ndf 236.4 / 3
p0 1481 ± 5.033
1600
1550
1500
1450
1400
1350
5928. 0
5929. 0
5929. 1
5929. 2

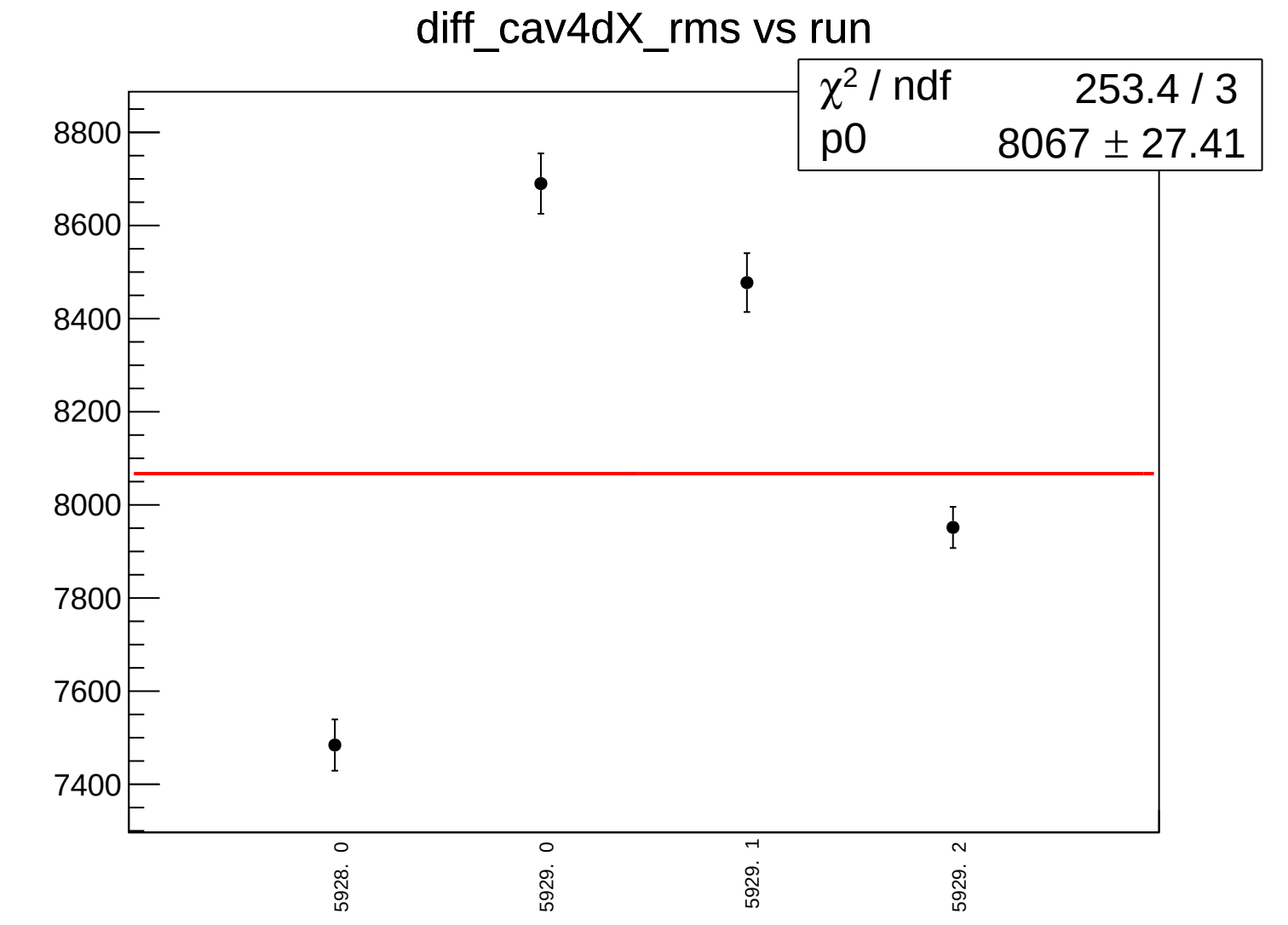

diff_cav4cY_mean vs run
χ² / ndf 0.2233 / 3
p0 3.823 ± 5.41
20
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.147
Std Dev 6.7
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.02348
Std Dev 0.2351
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

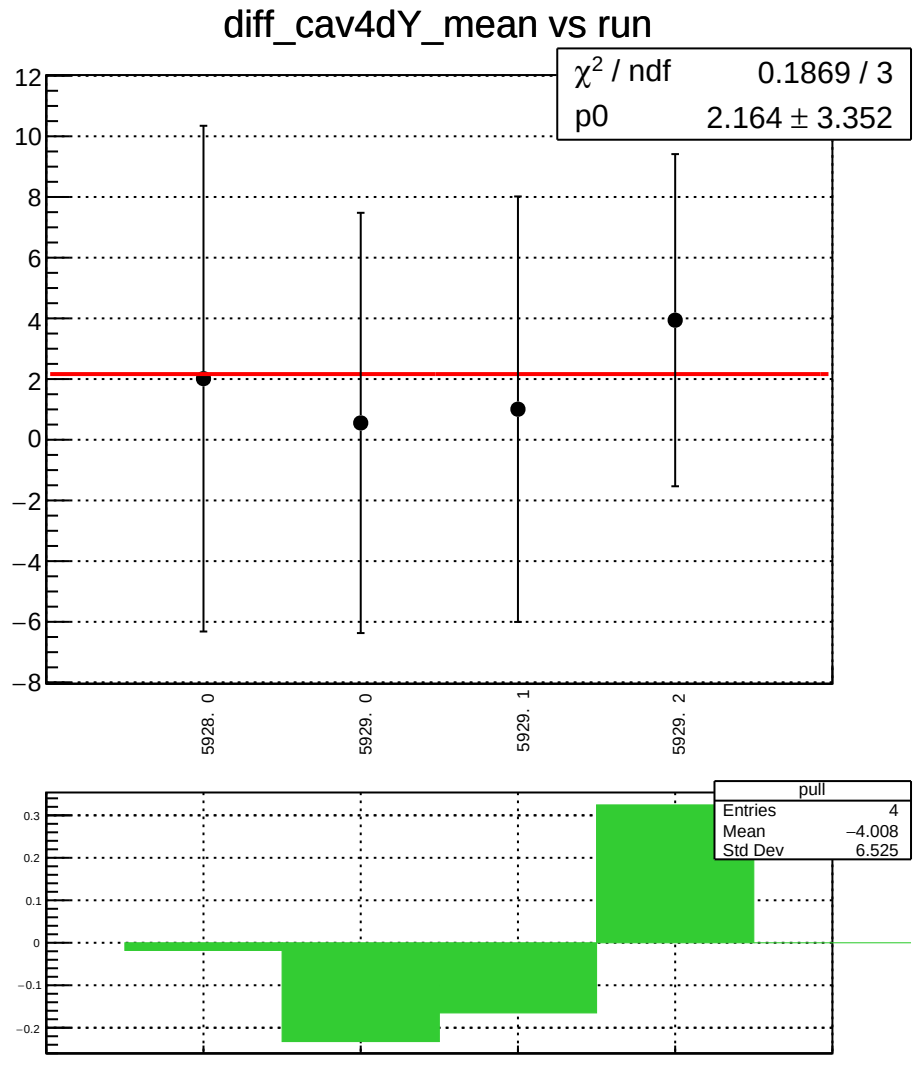

diff_cav4cY_rms vs run
χ² / ndf 487.8 / 3
p0 1124 ± 3.826
1300
1250
1200
1150
1100
1050
5928. 0
5929. 0
5929. 1
5929. 2

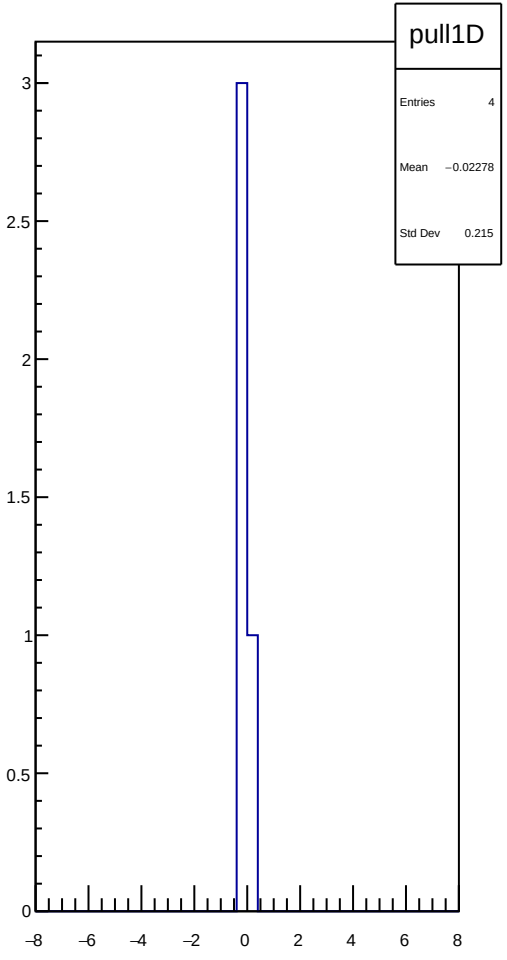

diff_cav4dX_mean vs run
χ² / ndf 1.674 / 3
p0 −62.22 ± 38.77
100
50
0
−50
−100
−150
−200
−250
5928. 0
5929. 0
5929. 1
5929. 2

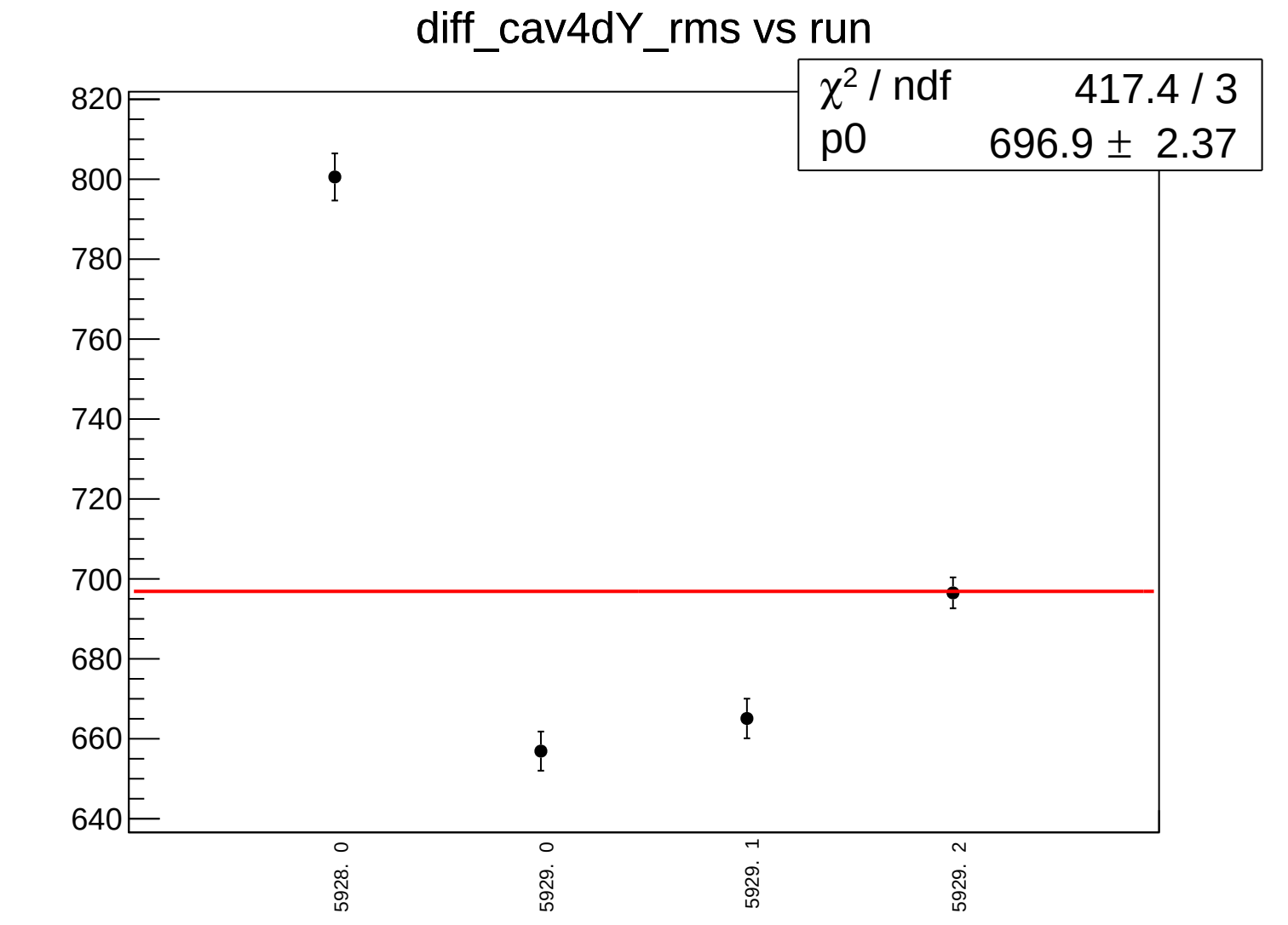

pull
Entries 4
Mean 16.92
Std Dev 14.98
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

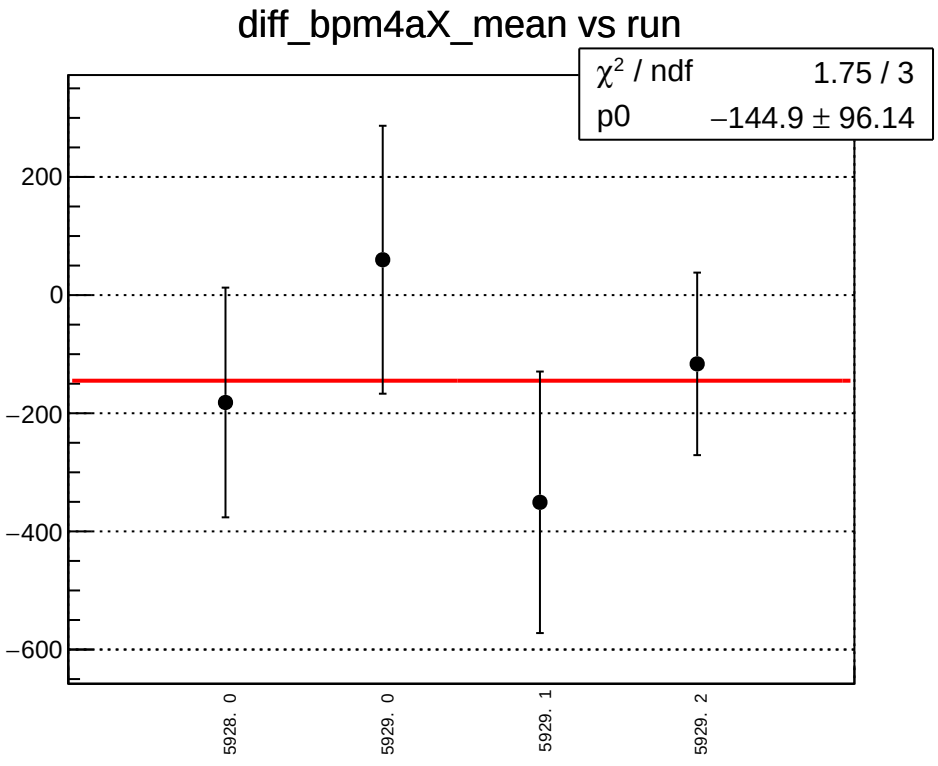

pull1D
Entries 4
Mean −0.007445
Std Dev 0.6469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

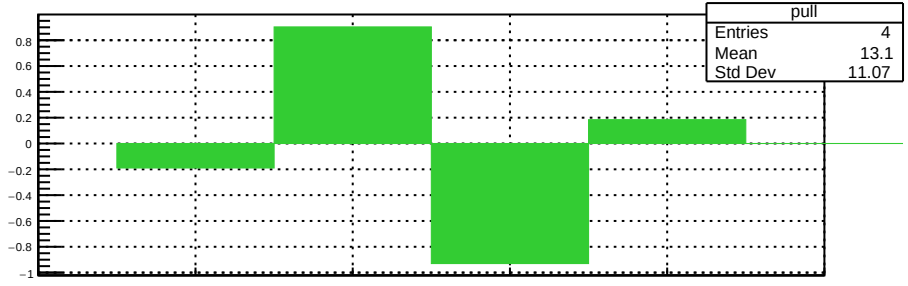

diff_cav4dX_rms vs run
χ² / ndf 253.4 / 3
p0 8067 ± 27.41
8800
8600
8400
8200
8000
7800
7600
7400
5928. 0
5929. 0
5929. 1
5929. 2

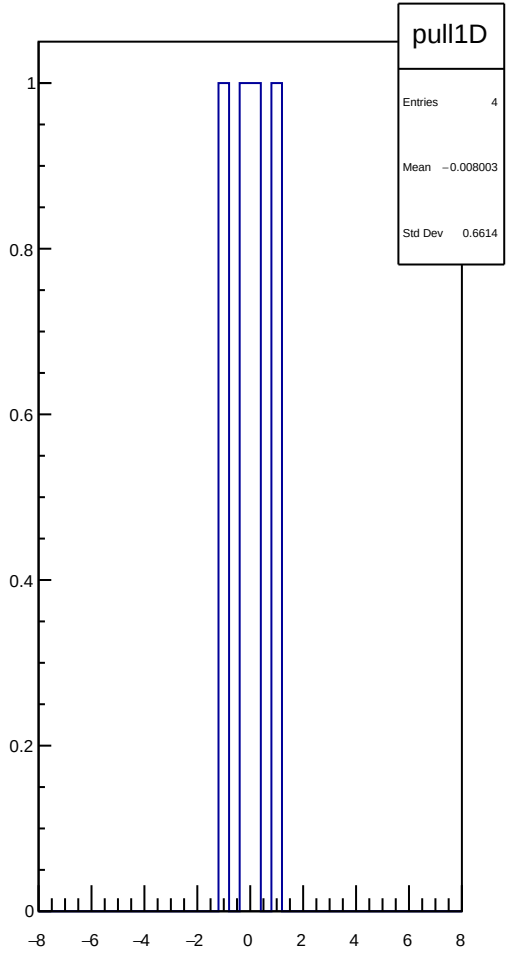

diff_cav4dY_mean vs run
χ² / ndf 0.1869 / 3
p0 2.164 ± 3.352
12
10
8
6
4
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.008
Std Dev 6.525
0.3
0.2
0.1
0
−0.1
−0.2

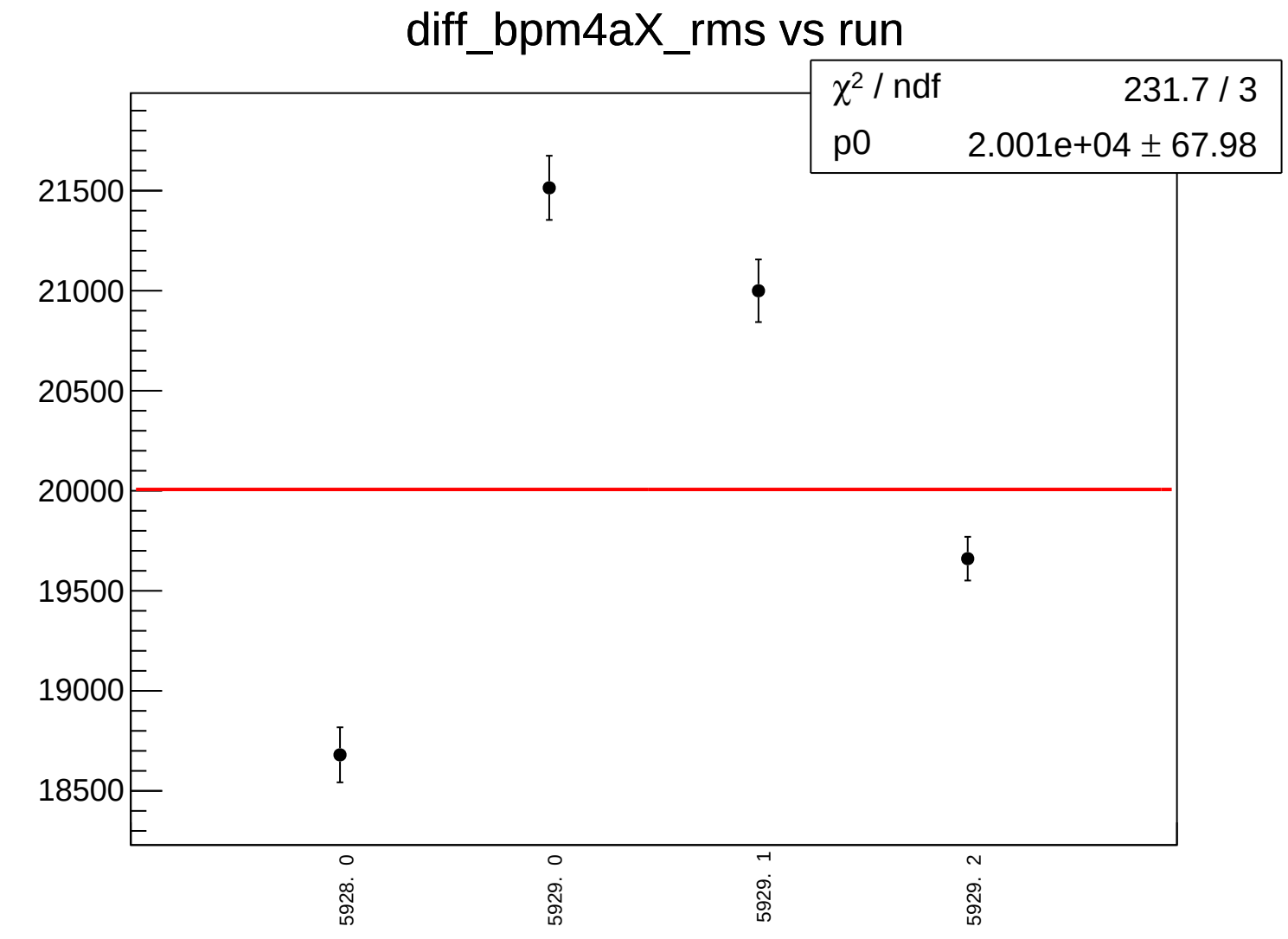

pull1D
Entries 4
Mean −0.02278
Std Dev 0.215
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

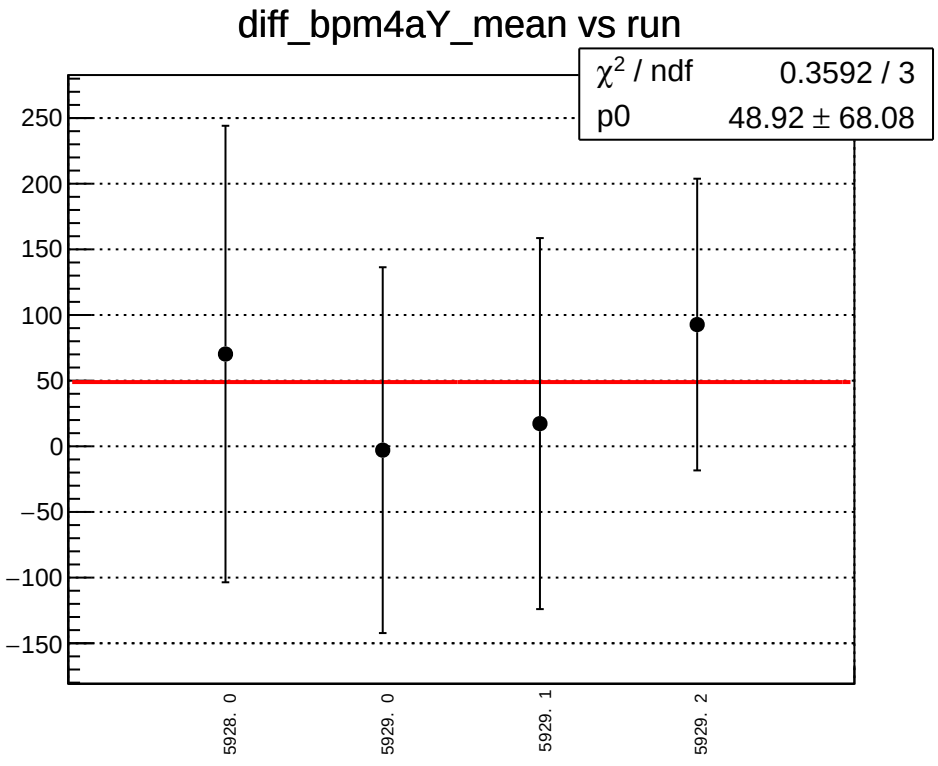

diff_cav4dY_rms vs run
χ² / ndf 417.4 / 3
p0 696.9 ± 2.37
820
800
780
760
740
720
700
680
660
640
5928. 0
5929. 0
5929. 1
5929. 2

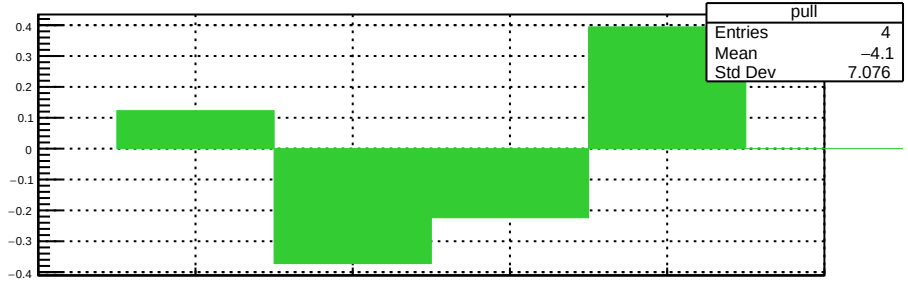

diff_bpm4aX_mean vs run
χ² / ndf 1.75 / 3
p0 −144.9 ± 96.14
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2

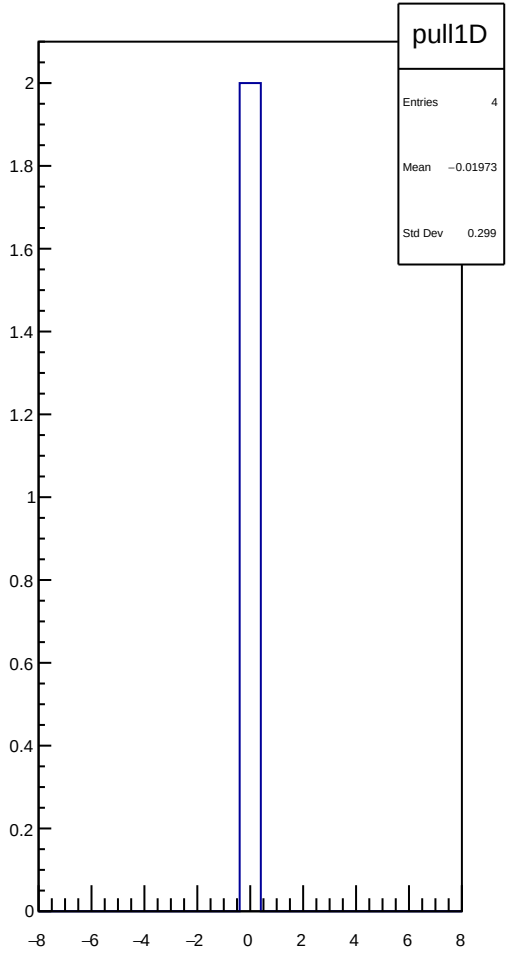

pull
Entries 4
Mean 13.1
Std Dev 11.07
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

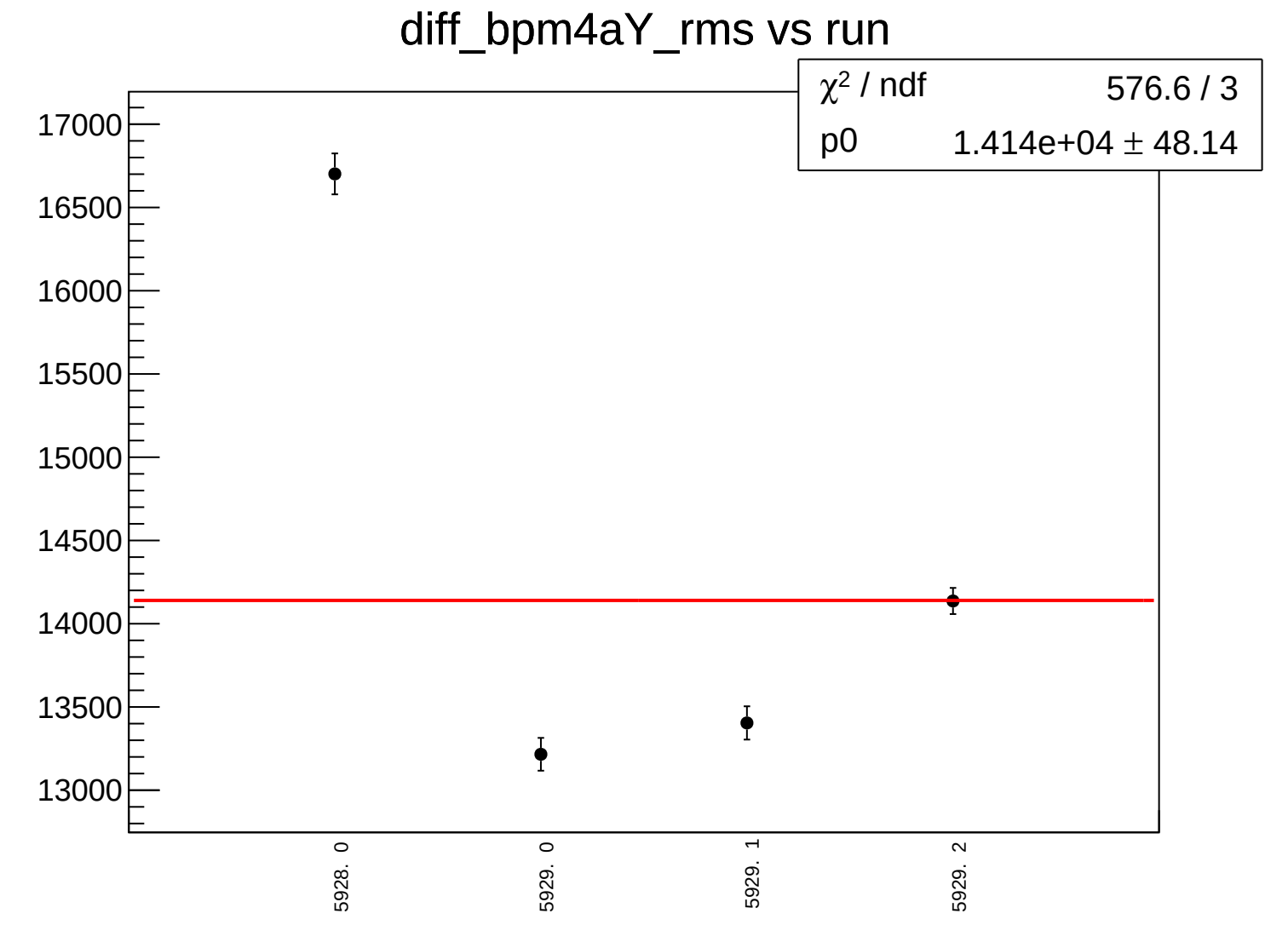

pull1D
Entries 4
Mean −0.008003
Std Dev 0.6614
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

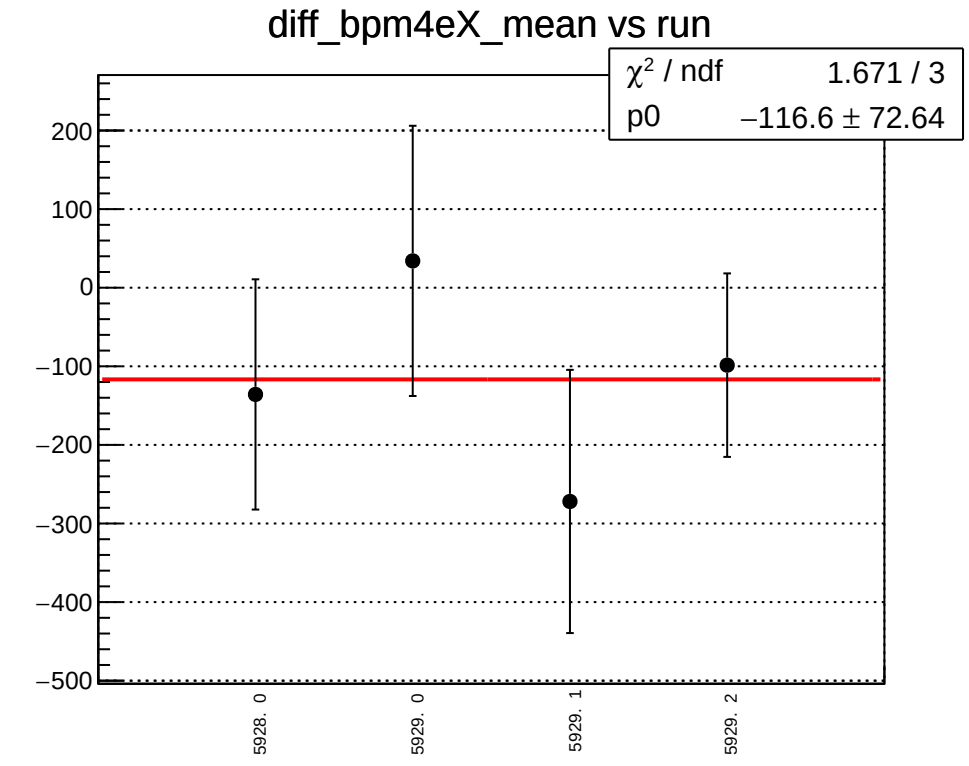

diff_bpm4aX_rms vs run
χ² / ndf 231.7 / 3
p0 2.001e+04 ± 67.98
21500
21000
20500
20000
19500
19000
18500
5928. 0
5929. 0
5929. 1
5929. 2

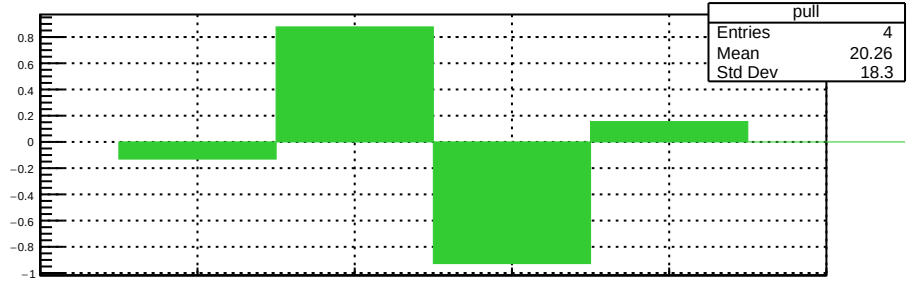

diff_bpm4aY_mean vs run
χ² / ndf 0.3592 / 3
p0 48.92 ± 68.08
250
200
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2

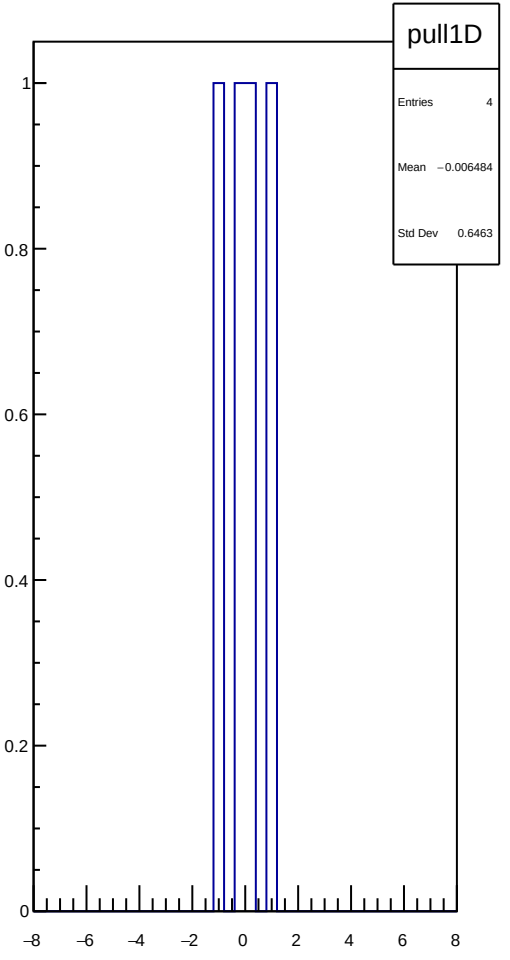

pull
Entries 4
Mean −4.1
Std Dev 7.076
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

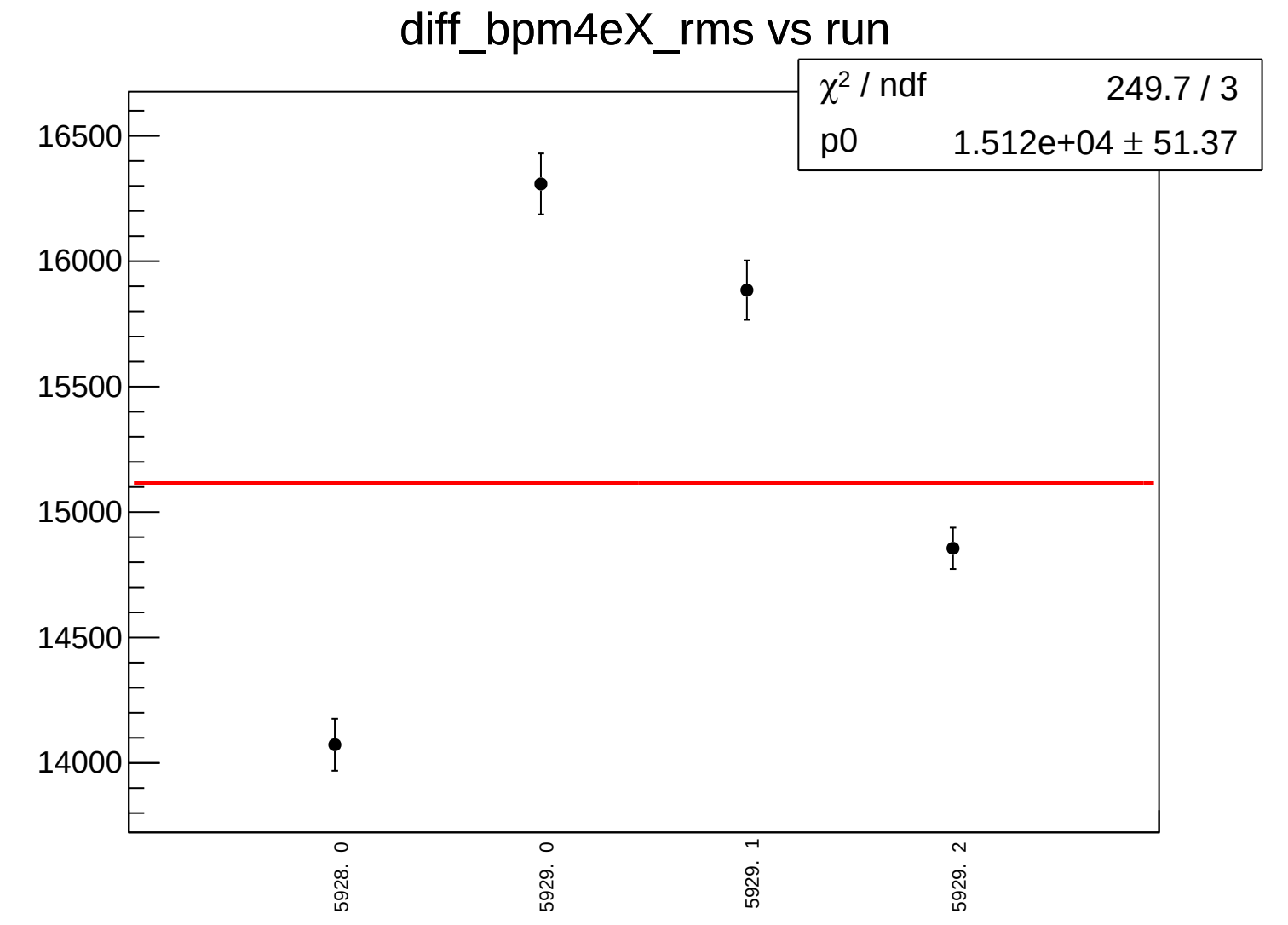

pull1D
Entries 4
Mean −0.01973
Std Dev 0.299
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

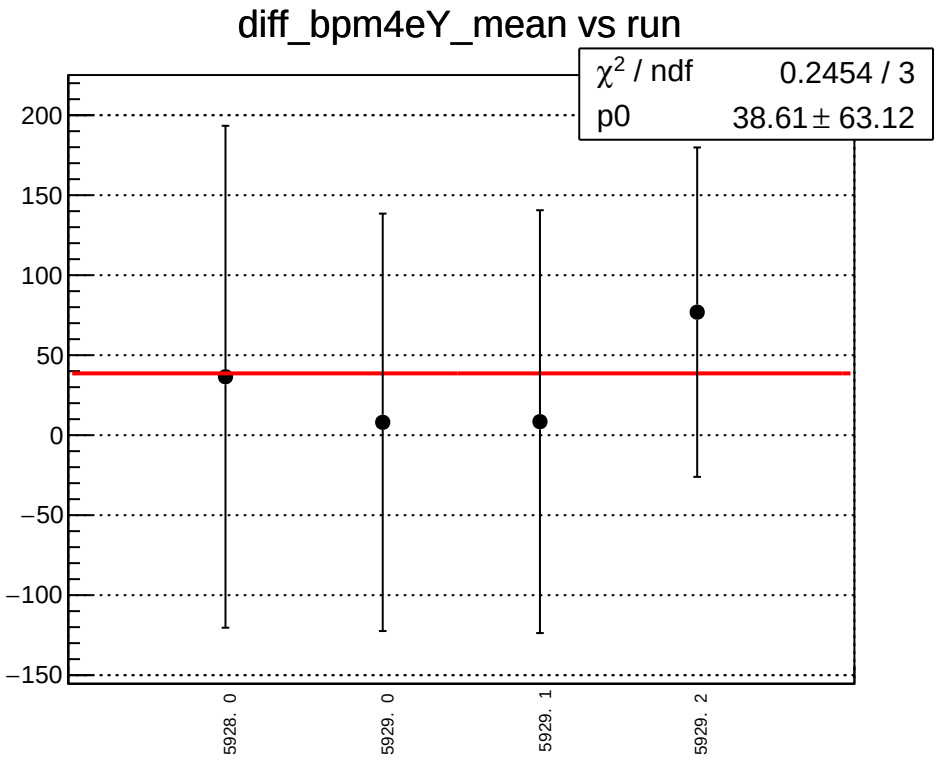

diff_bpm4aY_rms vs run
χ² / ndf 576.6 / 3
p0 1.414e+04 ± 48.14
17000
16500
16000
15500
15000
14500
14000
13500
13000
5928. 0
5929. 0
5929. 1
5929. 2

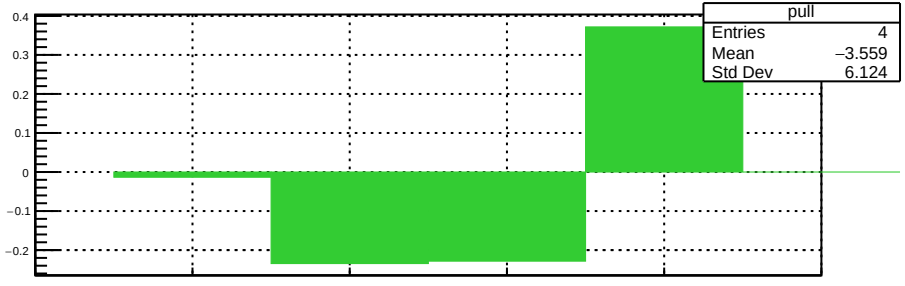

diff_bpm4eX_mean vs run
χ² / ndf 1.671 / 3
p0 −116.6 ± 72.64
200
100
0
−100
−200
−300
−400
−500
5928. 0
5929. 0
5929. 1
5929. 2

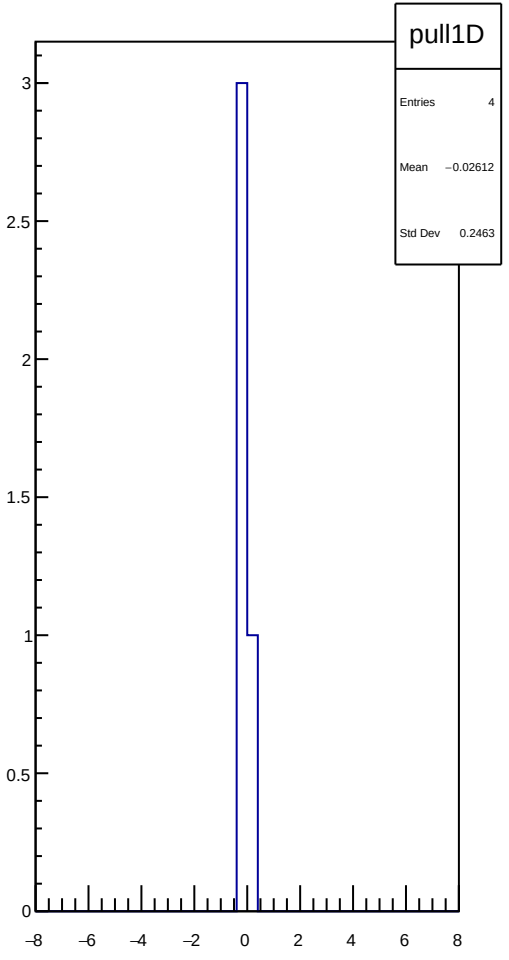

pull
Entries 4
Mean 20.26
Std Dev 18.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

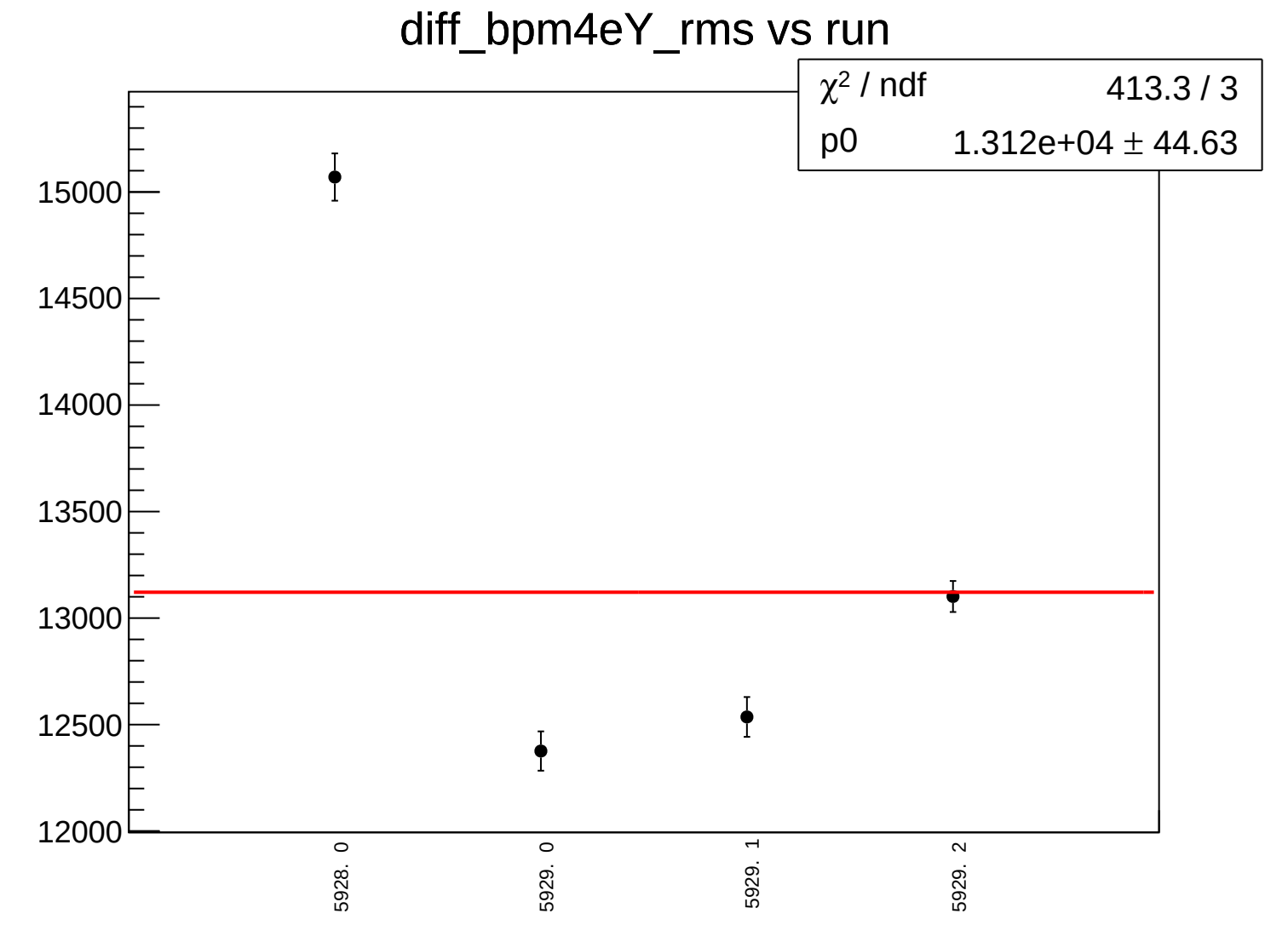

pull1D
Entries 4
Mean −0.006484
Std Dev 0.6463
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

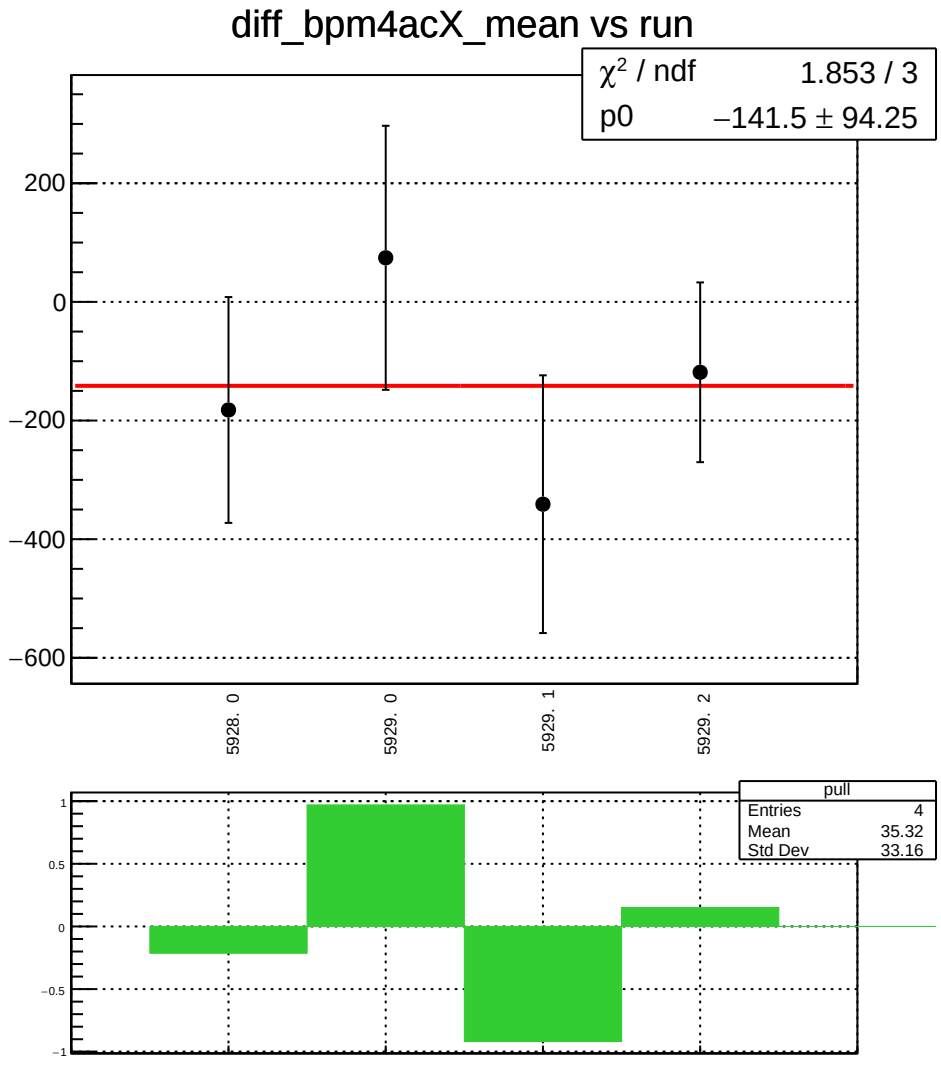

diff_bpm4eX_rms vs run
χ² / ndf 249.7 / 3
p0 1.512e+04 ± 51.37
16500
16000
15500
15000
14500
14000
5928. 0
5929. 0
5929. 1
5929. 2

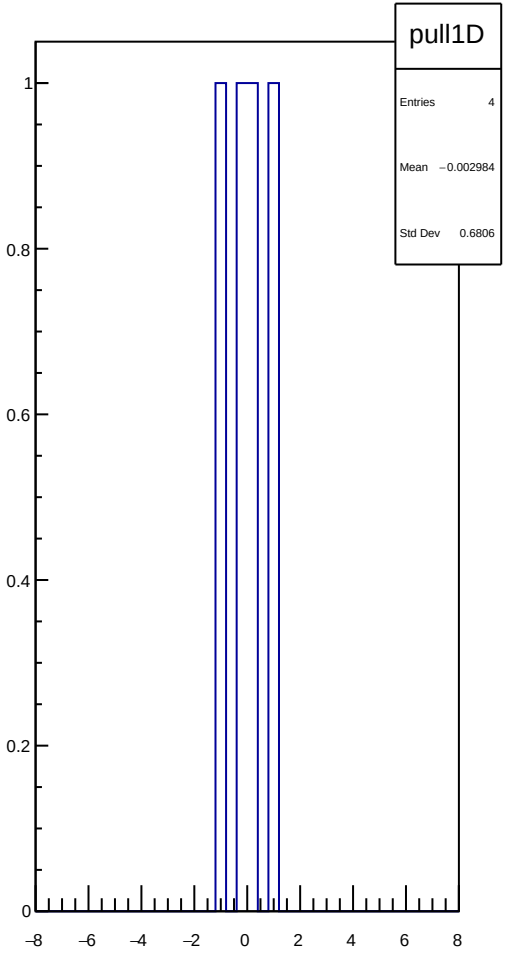

diff_bpm4eY_mean vs run
χ² / ndf 0.2454 / 3
p0 38.61 ± 63.12
200
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2

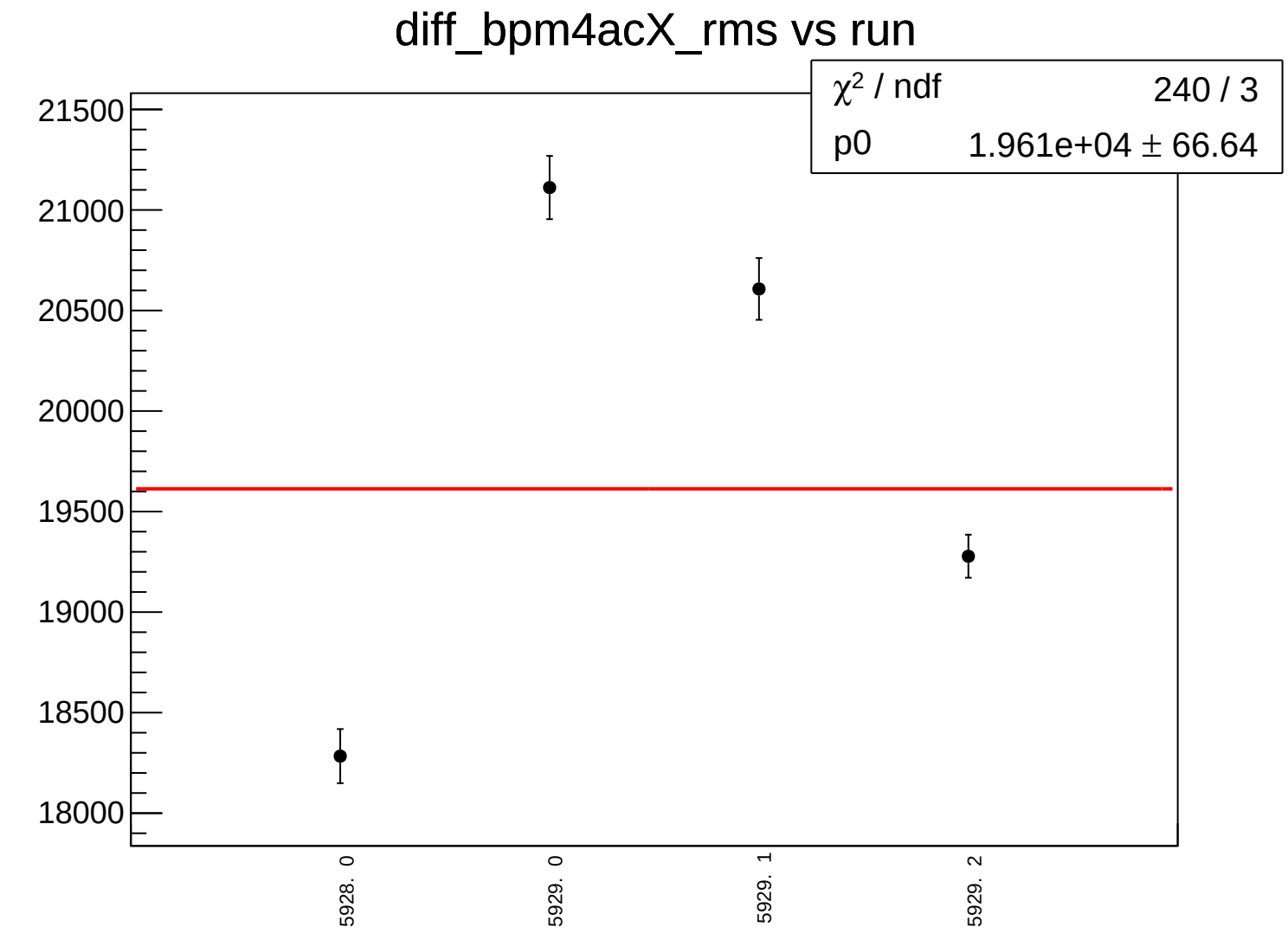

pull
Entries 4
Mean −3.559
Std Dev 6.124
0.4
0.3
0.2
0.1
0
−0.1
−0.2

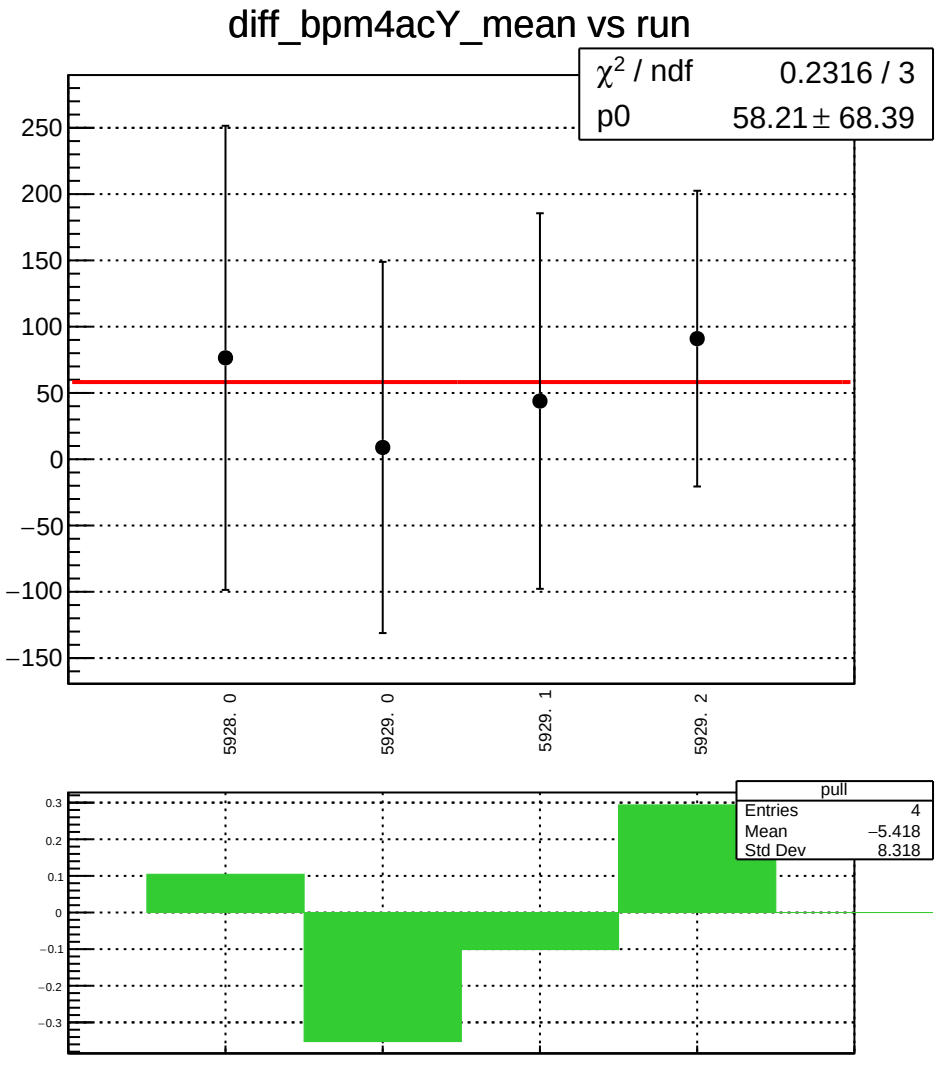

pull1D
Entries 4
Mean −0.02612
Std Dev 0.2463
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

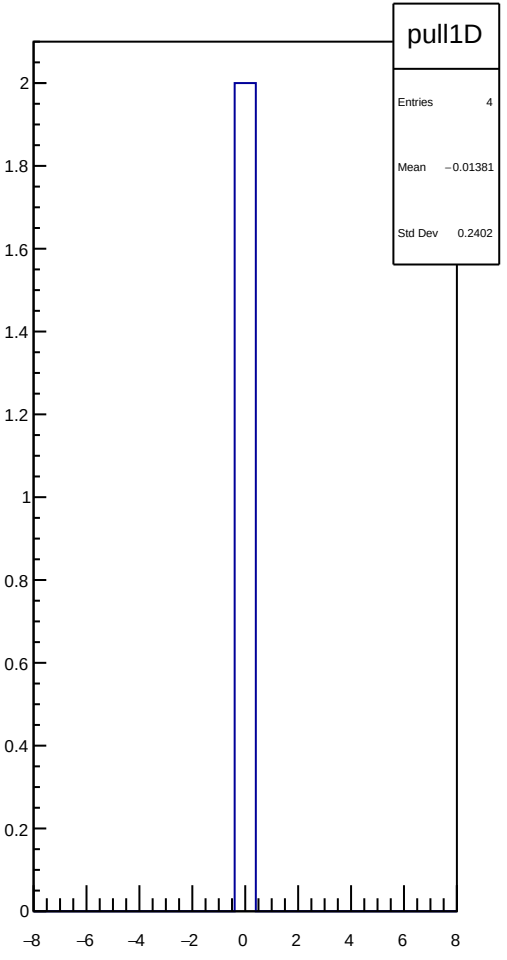

diff_bpm4eY_rms vs run
χ² / ndf 413.3 / 3
p0 1.312e+04 ± 44.63
15000
14500
14000
13500
13000
12500
12000
5928. 0
5929. 0
5929. 1
5929. 2

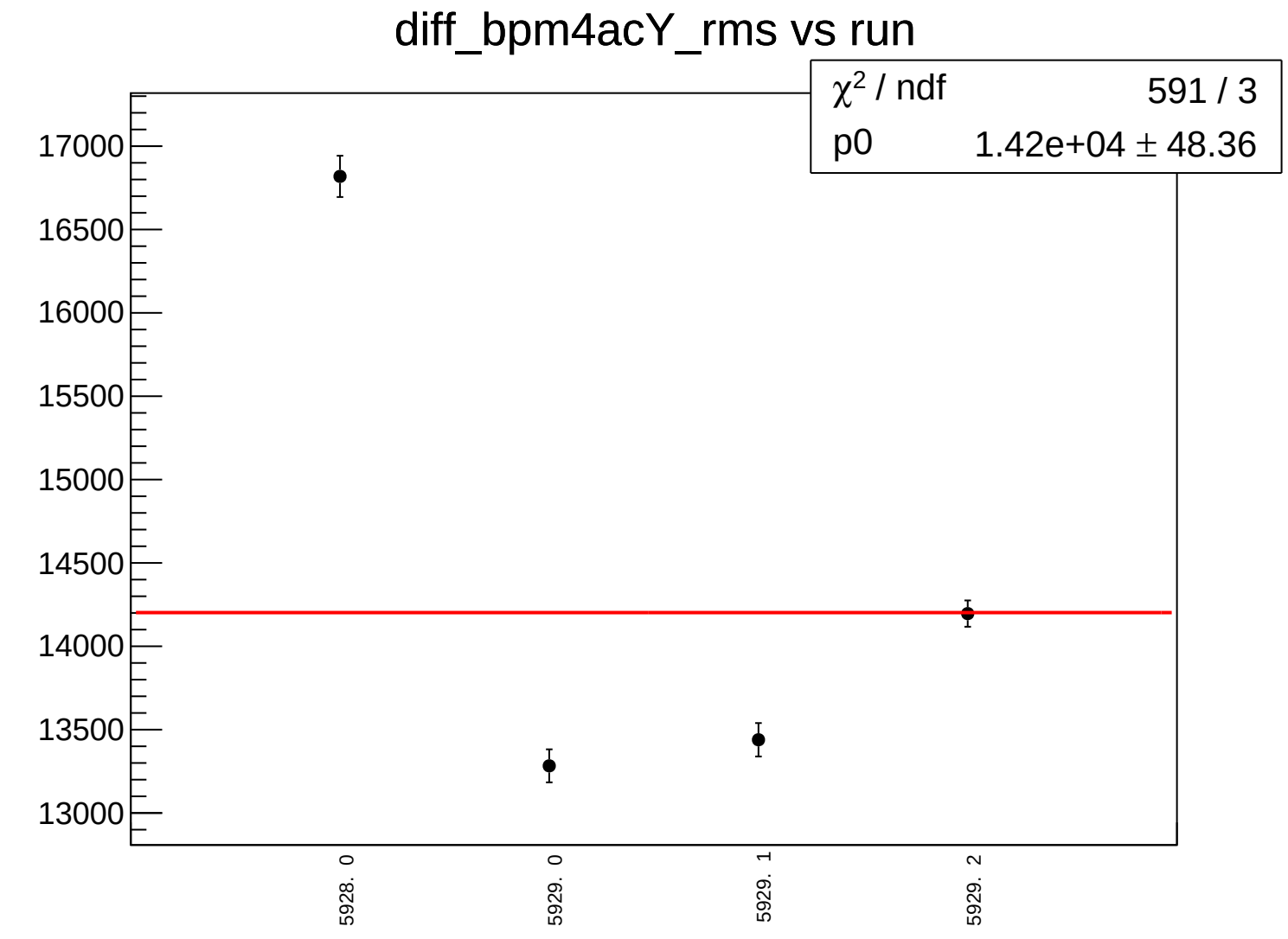

diff_bpm4acX_mean vs run
χ² / ndf 1.853 / 3
p0 −141.5 ± 94.25
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 35.32
Std Dev 33.16
1
0.5
0
−0.5
−1

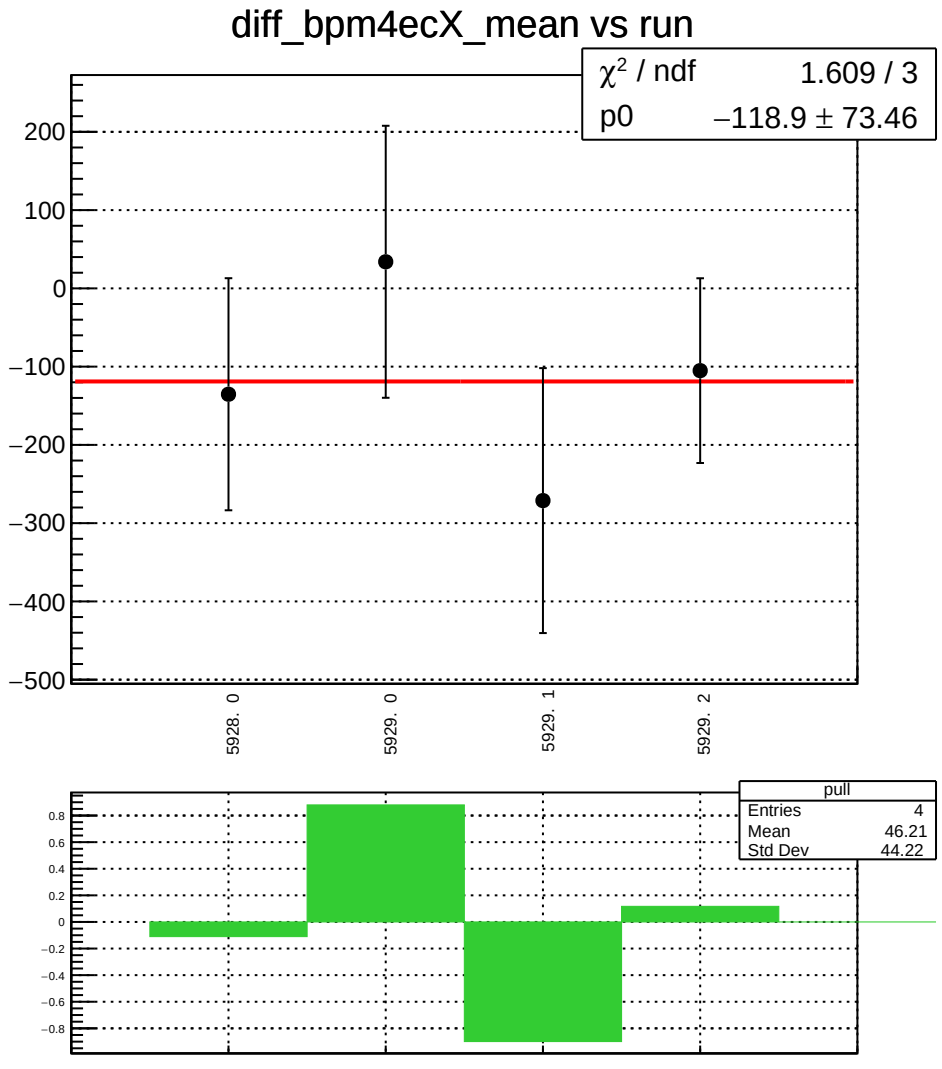

pull1D
Entries 4
Mean −0.002984
Std Dev 0.6806
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

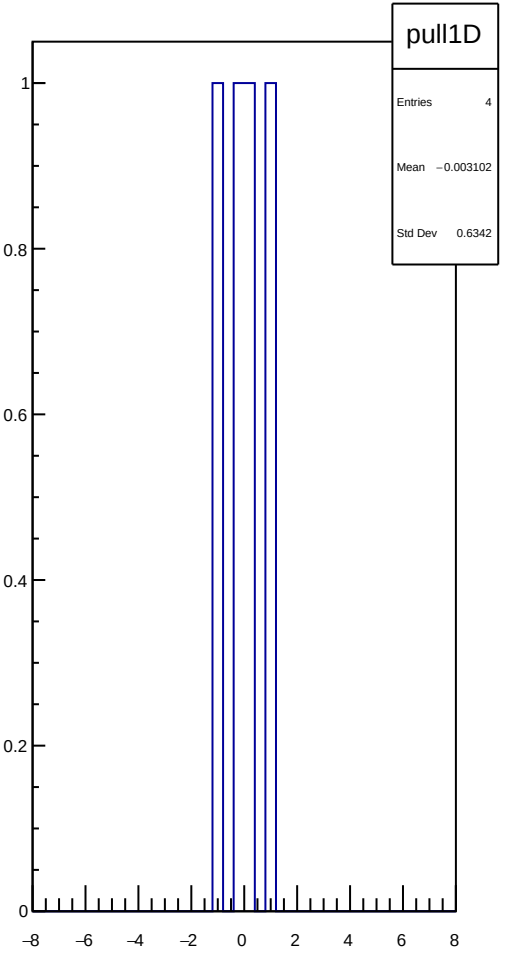

diff_bpm4acX_rms vs run
χ² / ndf 240 / 3
p0 1.961e+04 ± 66.64
21500
21000
20500
20000
19500
19000
18500
18000
5928. 0
5929. 0
5929. 1
5929. 2

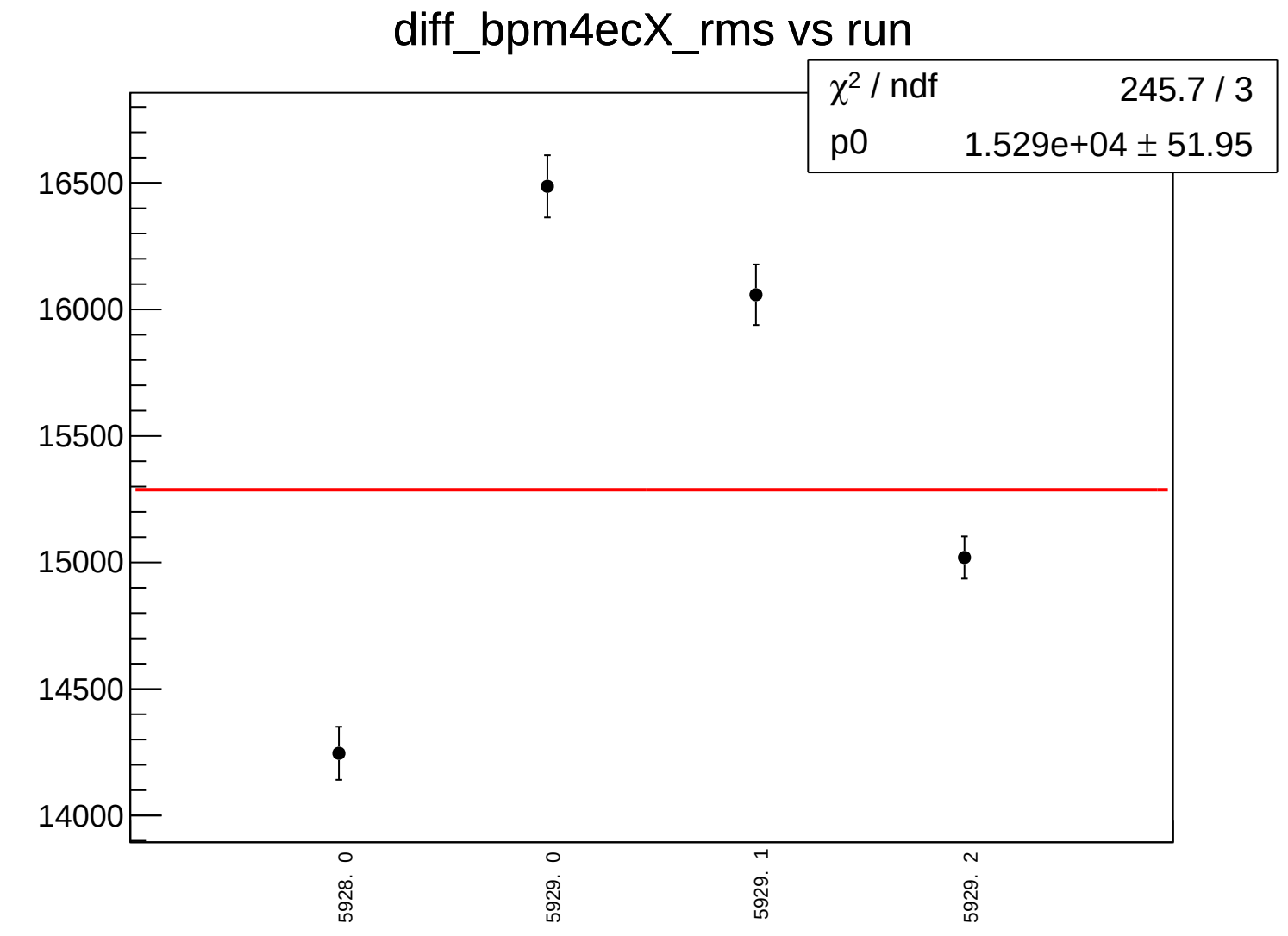

diff_bpm4acY_mean vs run
χ² / ndf 0.2316 / 3
p0 58.21 ± 68.39
250
200
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.418
Std Dev 8.318
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

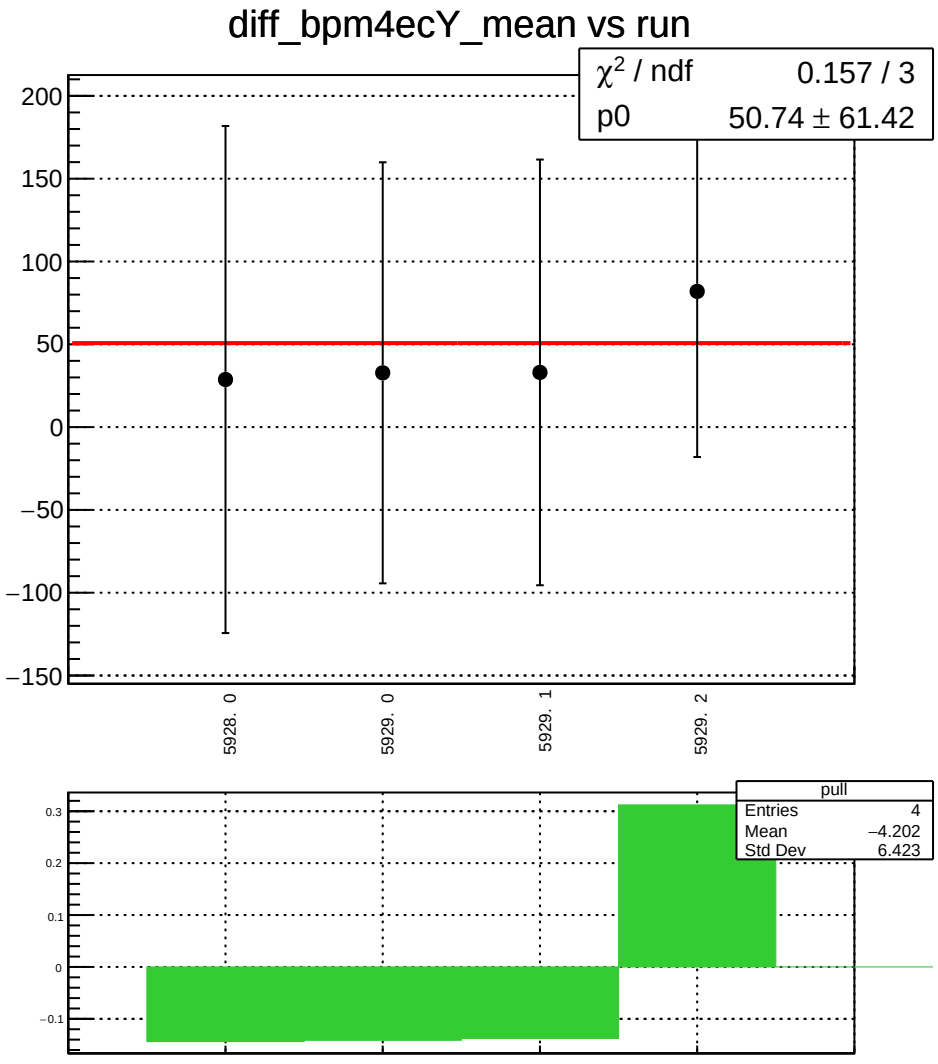

pull1D
Entries 4
Mean −0.01381
Std Dev 0.2402
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

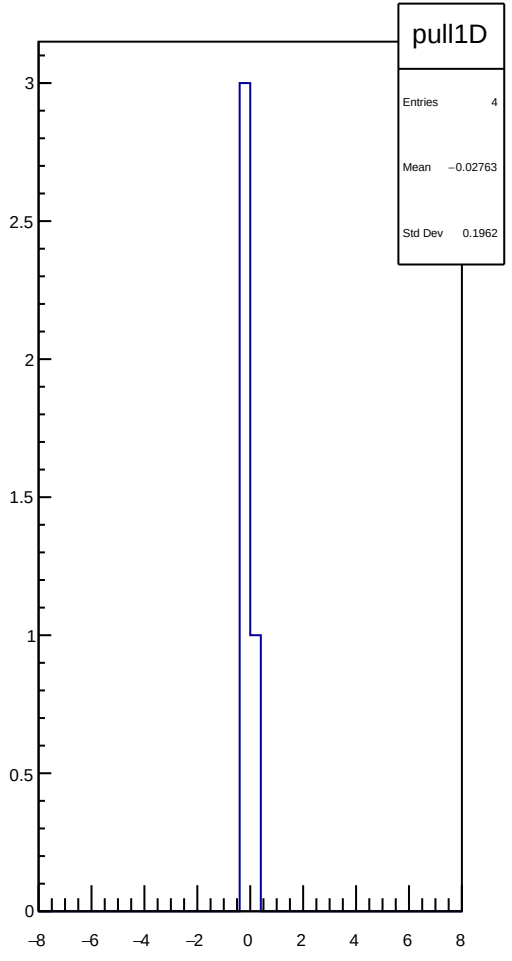

diff_bpm4acY_rms vs run
χ² / ndf 591 / 3
p0 1.42e+04 ± 48.36
17000
16500
16000
15500
15000
14500
14000
13500
13000
5928. 0
5929. 0
5929. 1
5929. 2

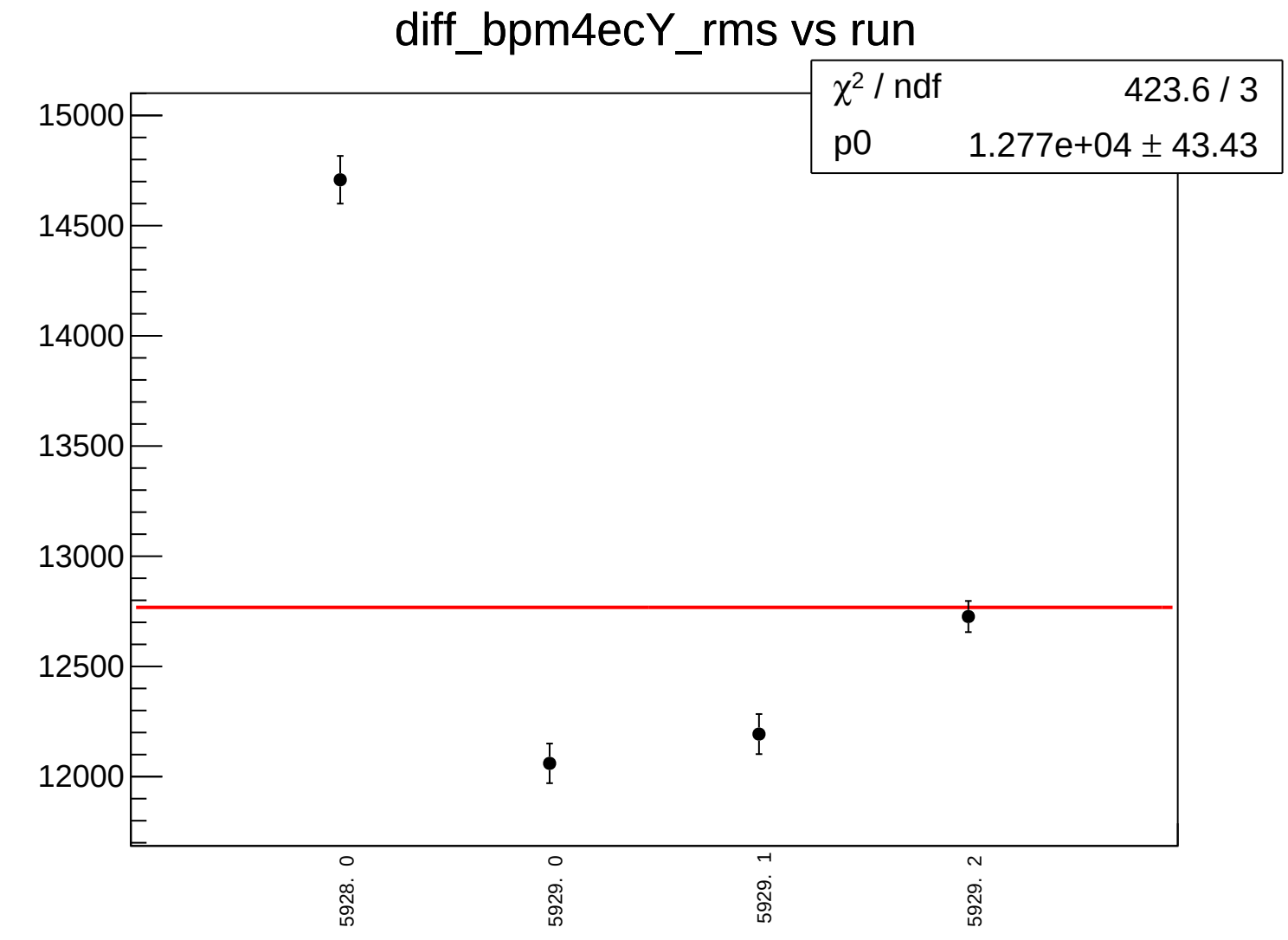

diff_bpm4ecX_mean vs run
χ² / ndf 1.609 / 3
p0 −118.9 ± 73.46
200
100
0
−100
−200
−300
−400
−500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 46.21
Std Dev 44.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

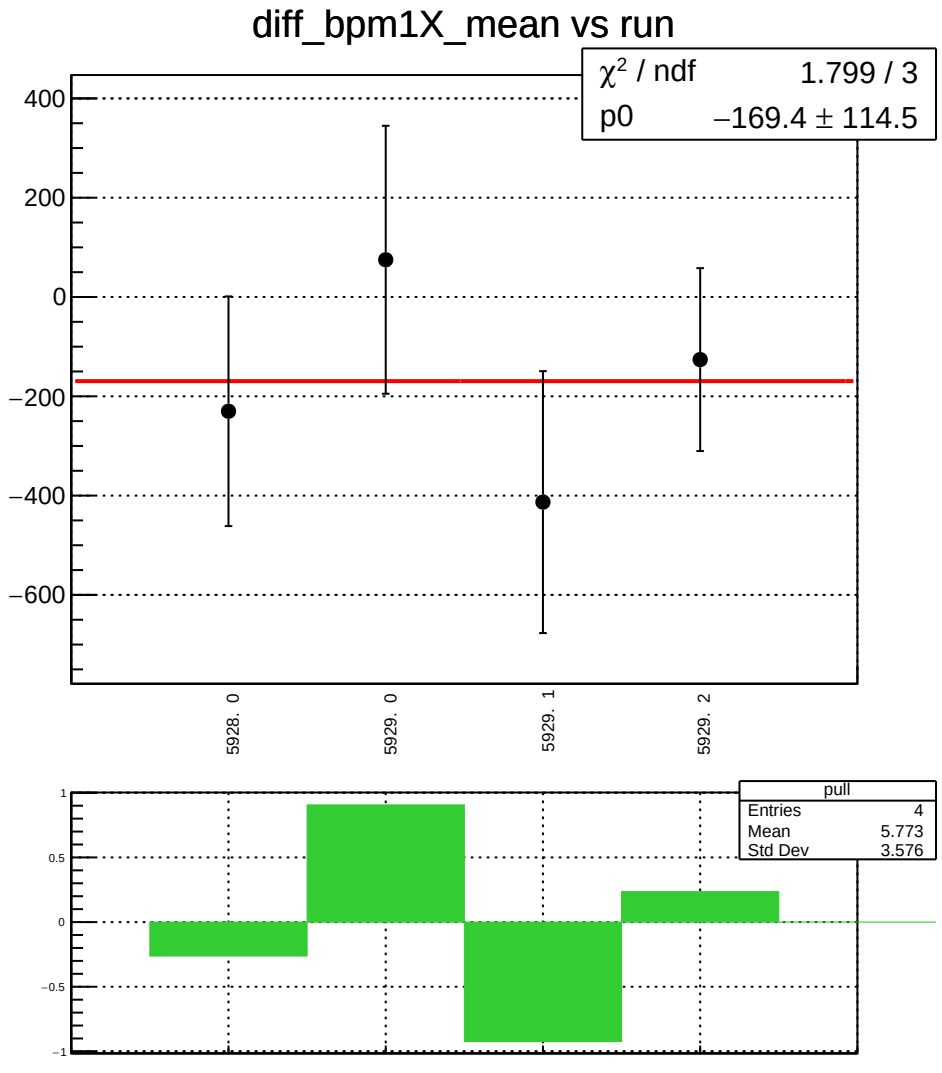

pull1D
Entries 4
Mean −0.003102
Std Dev 0.6342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

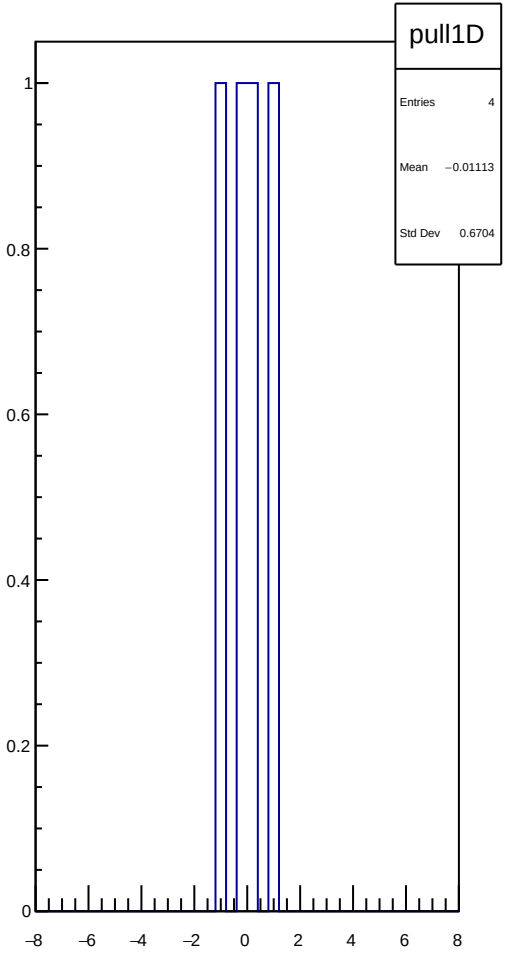

diff_bpm4ecX_rms vs run
χ² / ndf 245.7 / 3
p0 1.529e+04 ± 51.95
16500
16000
15500
15000
14500
14000
5928. 0
5929. 0
5929. 1
5929. 2

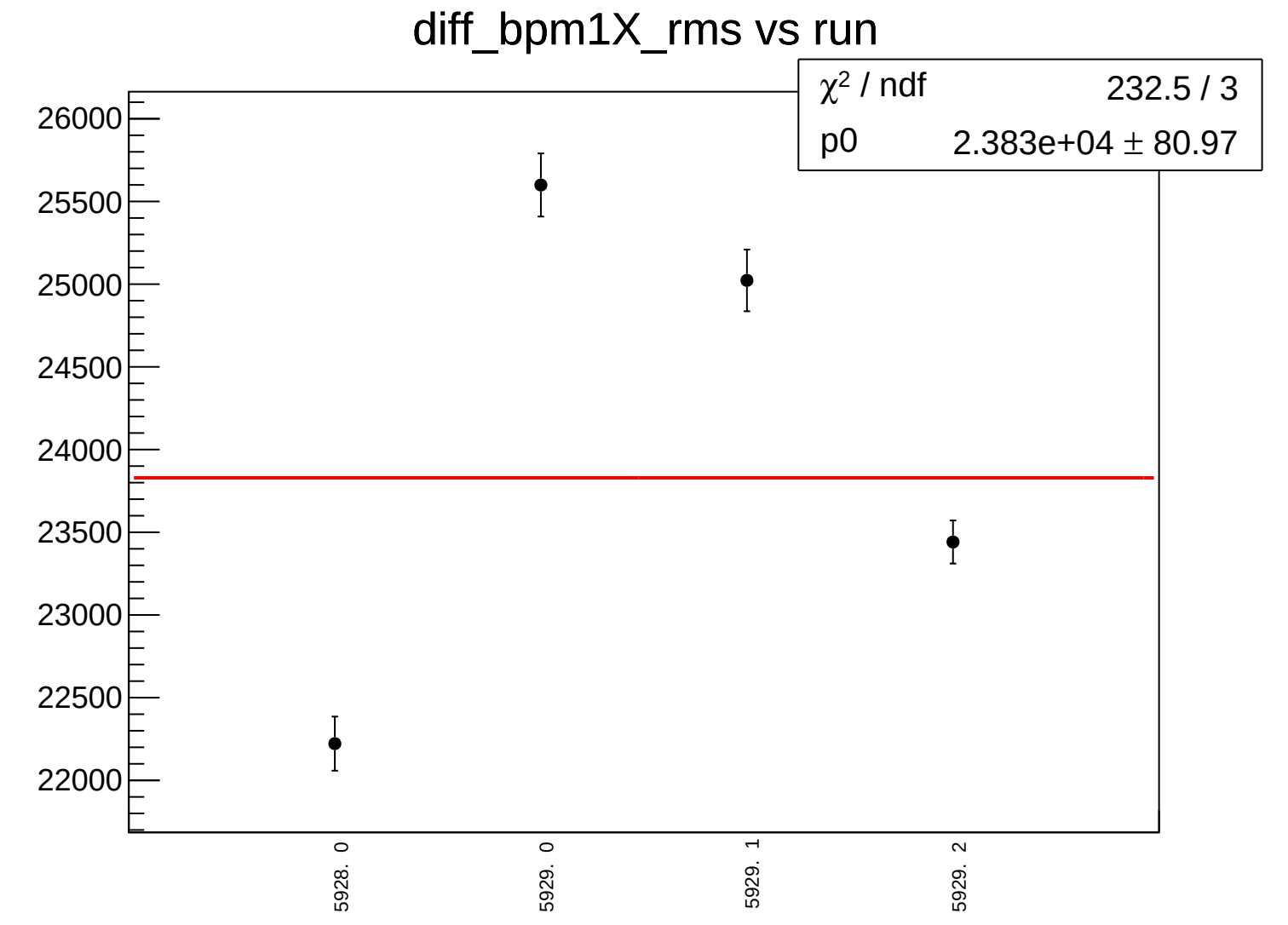

diff_bpm4ecY_mean vs run
χ² / ndf 0.157 / 3
p0 50.74 ± 61.42
200
150
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.202
Std Dev 6.423
0.3
0.2
0.1
0
−0.1

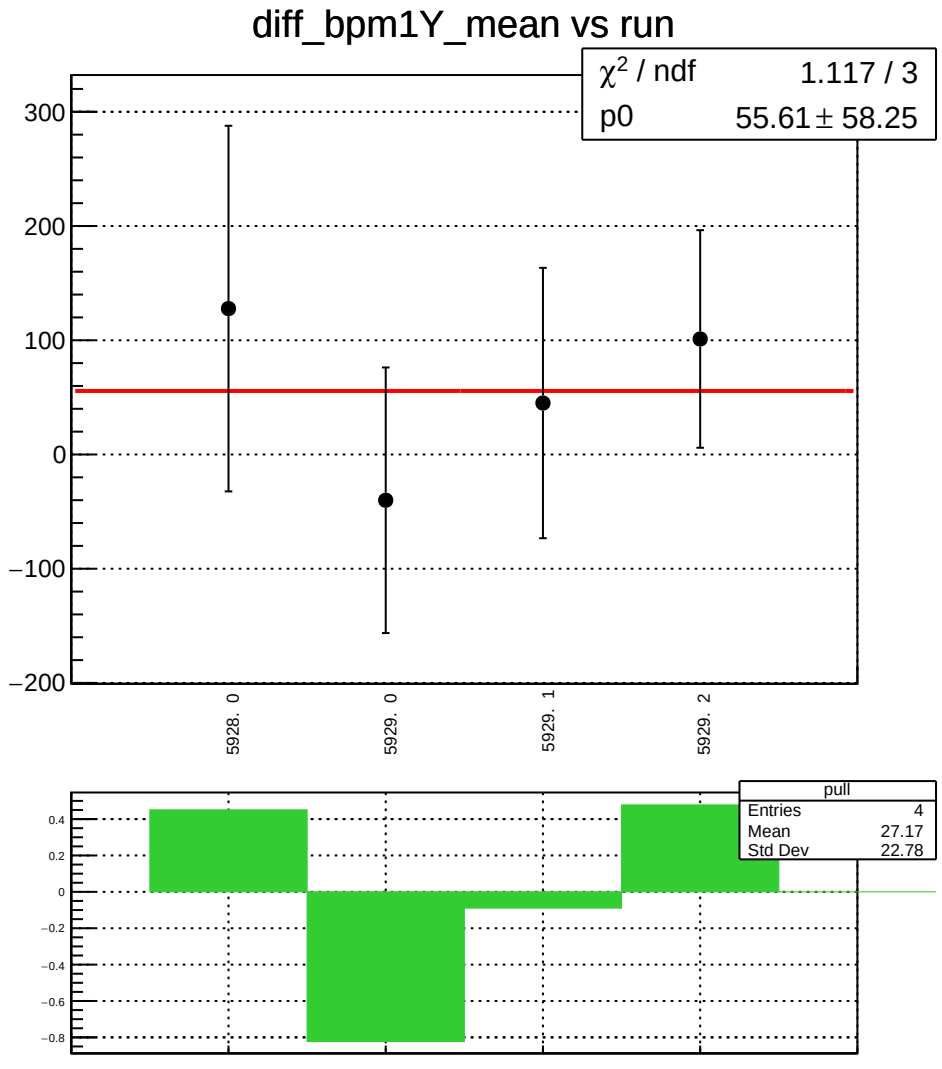

pull1D
Entries 4
Mean −0.02763
Std Dev 0.1962
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

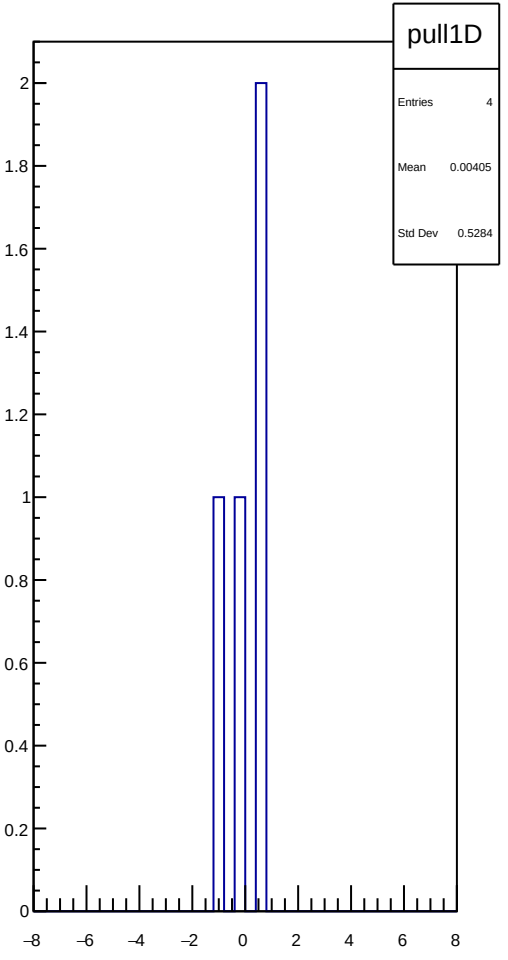

diff_bpm4ecY_rms vs run
χ² / ndf 423.6 / 3
p0 1.277e+04 ± 43.43
15000
14500
14000
13500
13000
12500
12000
5928. 0
5929. 0
5929. 1
5929. 2

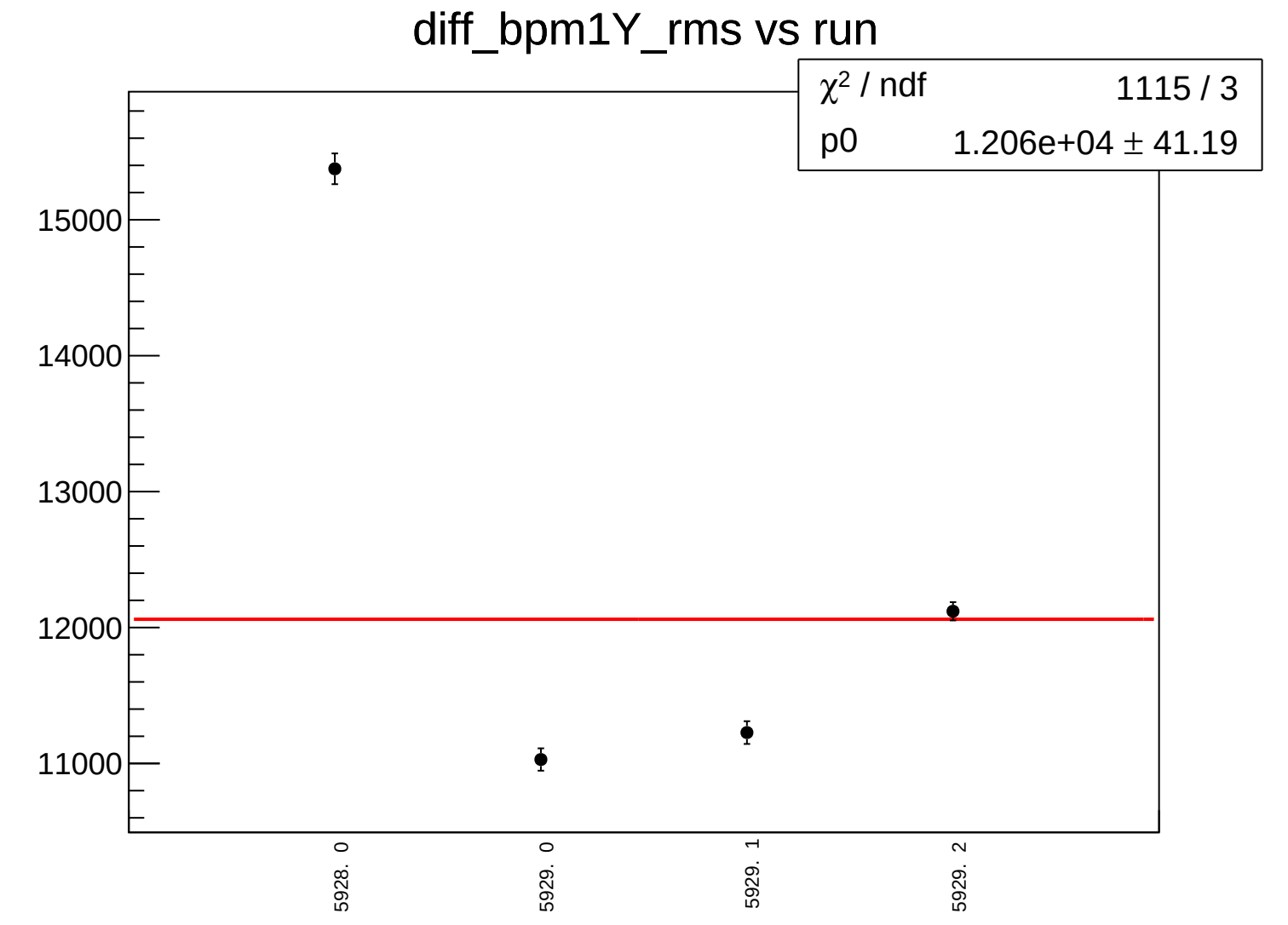

diff_bpm1X_mean vs run
χ² / ndf 1.799 / 3
p0 −169.4 ± 114.5
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.773
Std Dev 3.576
1
0.5
0
−0.5
−1

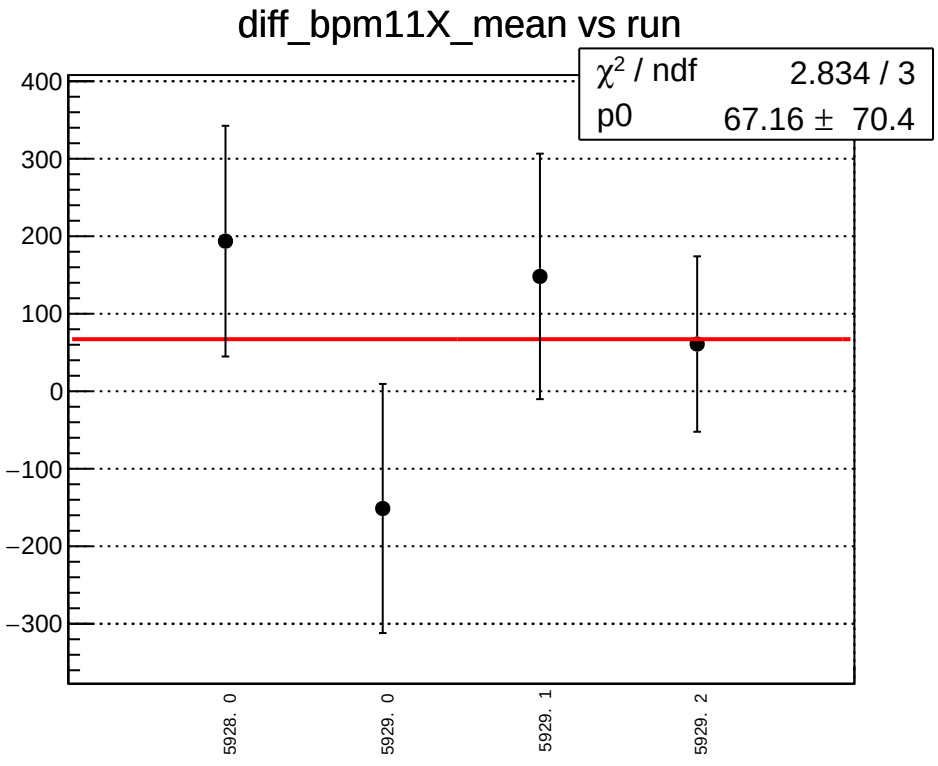

pull1D
Entries 4
Mean −0.01113
Std Dev 0.6704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

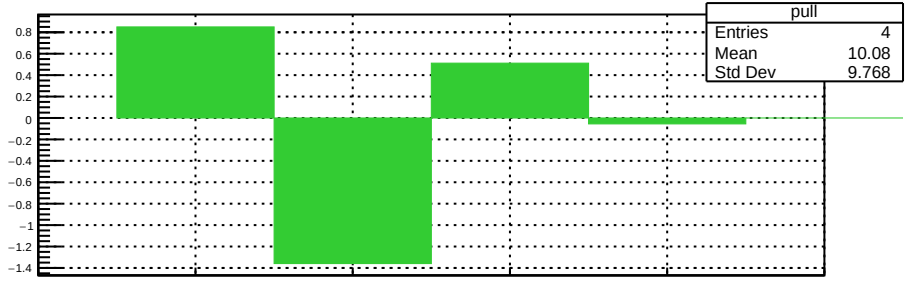

diff_bpm1X_rms vs run
χ² / ndf 232.5 / 3
p0 2.383e+04 ± 80.97
26000
25500
25000
24500
24000
23500
23000
22500
22000
5928. 0
5929. 0
5929. 1
5929. 2

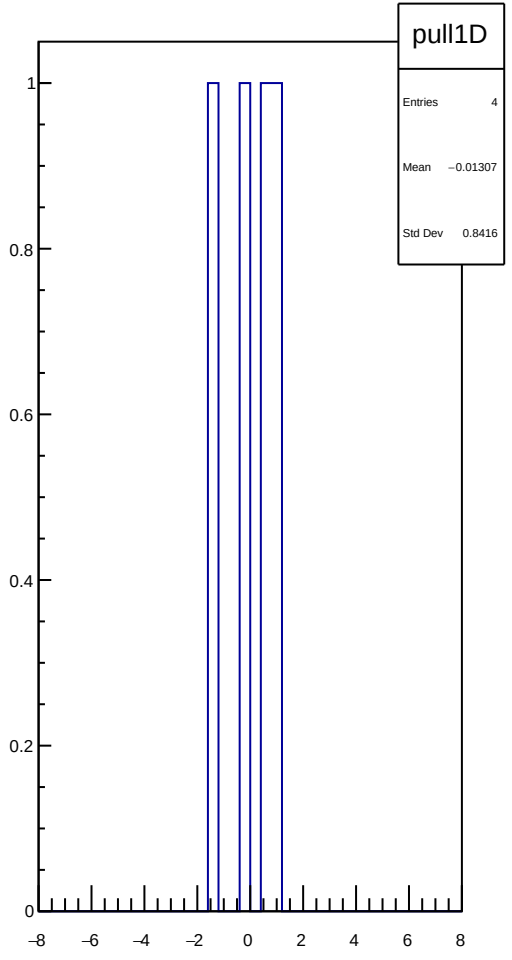

diff_bpm1Y_mean vs run
χ² / ndf 1.117 / 3
p0 55.61 ± 58.25
300
200
100
0
−100
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 27.17
Std Dev 22.78
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

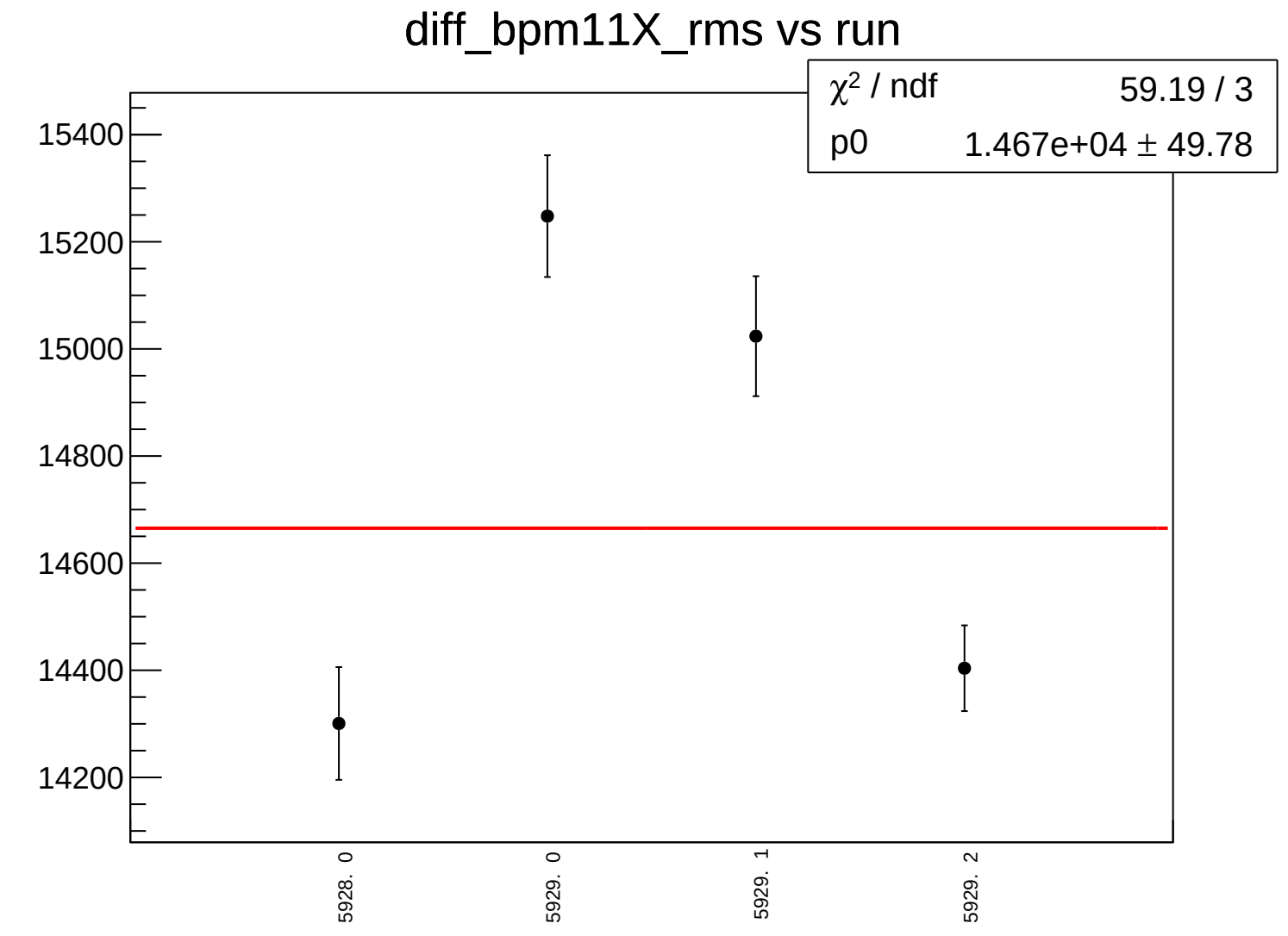

pull1D
Entries 4
Mean 0.00405
Std Dev 0.5284
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

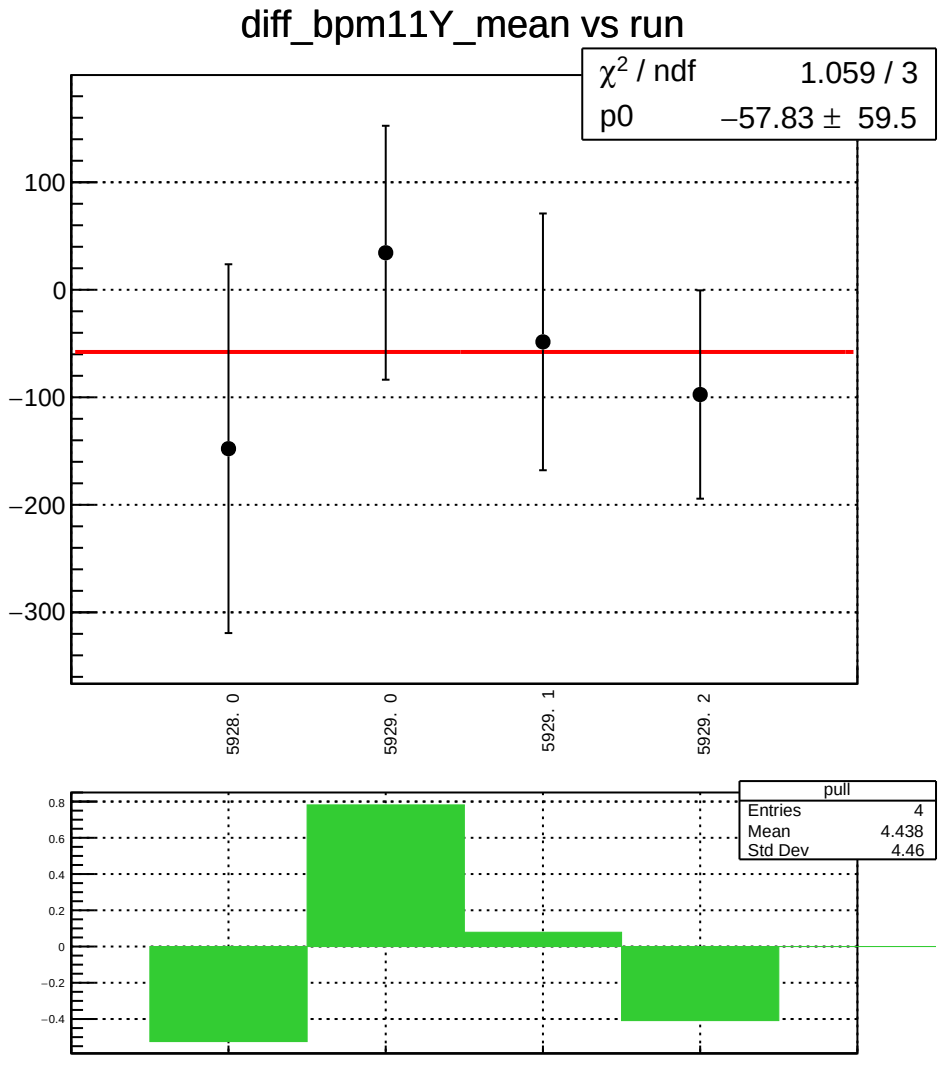

diff_bpm1Y_rms vs run
χ² / ndf 1115 / 3
p0 1.206e+04 ± 41.19
15000
14000
13000
12000
11000
5928. 0
5929. 0
5929. 1
5929. 2

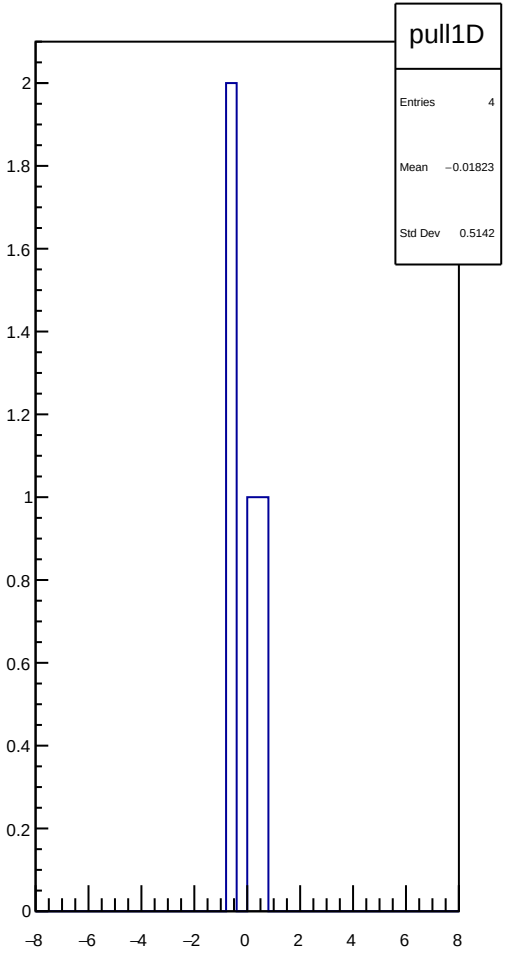

diff_bpm11X_mean vs run
χ² / ndf 2.834 / 3
p0 67.16 ± 70.4
400
300
200
100
0
−100
−200
−300
5928. 0
5929. 0
5929. 1
5929. 2

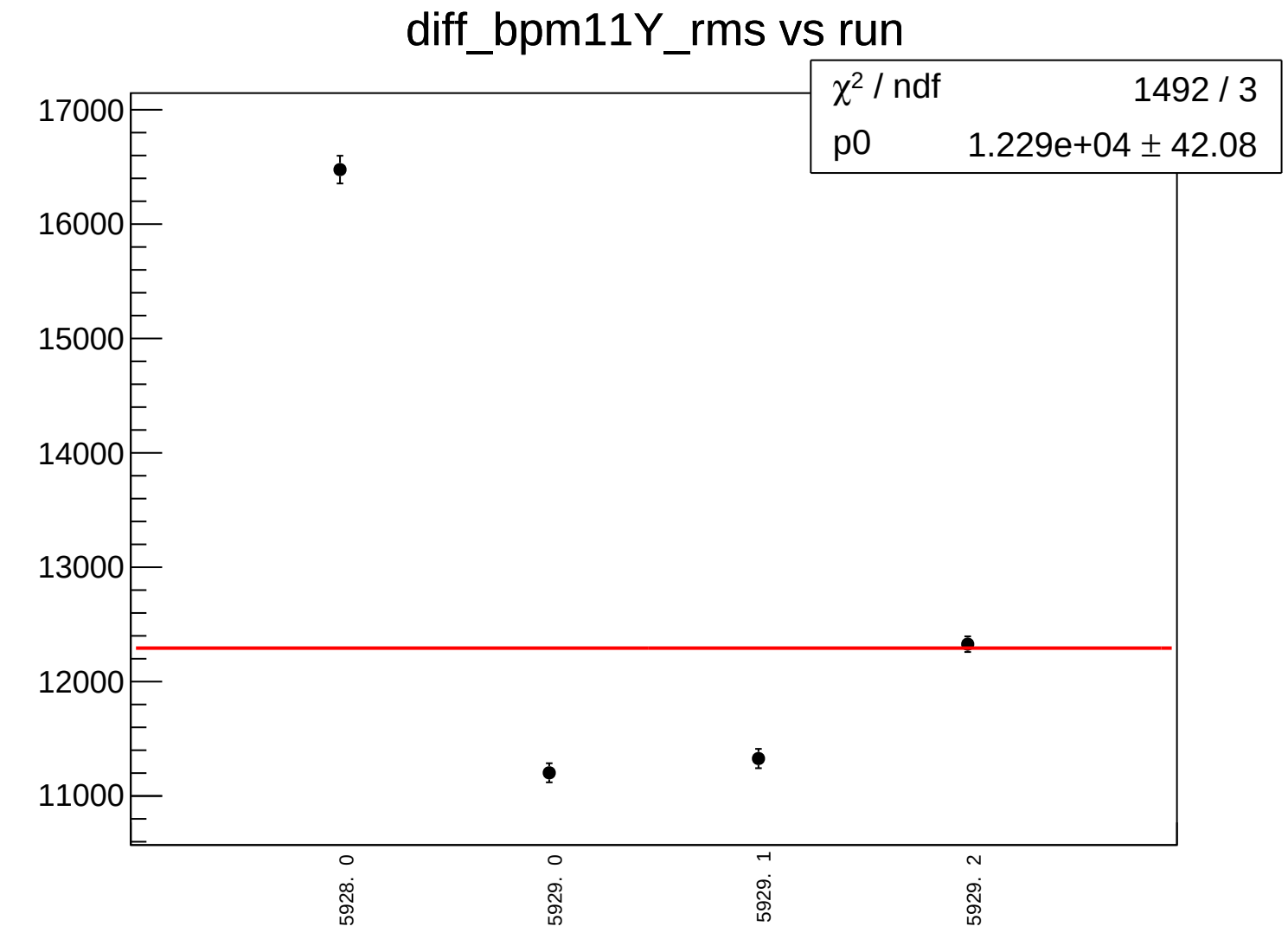

pull
Entries 4
Mean 10.08
Std Dev 9.768
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

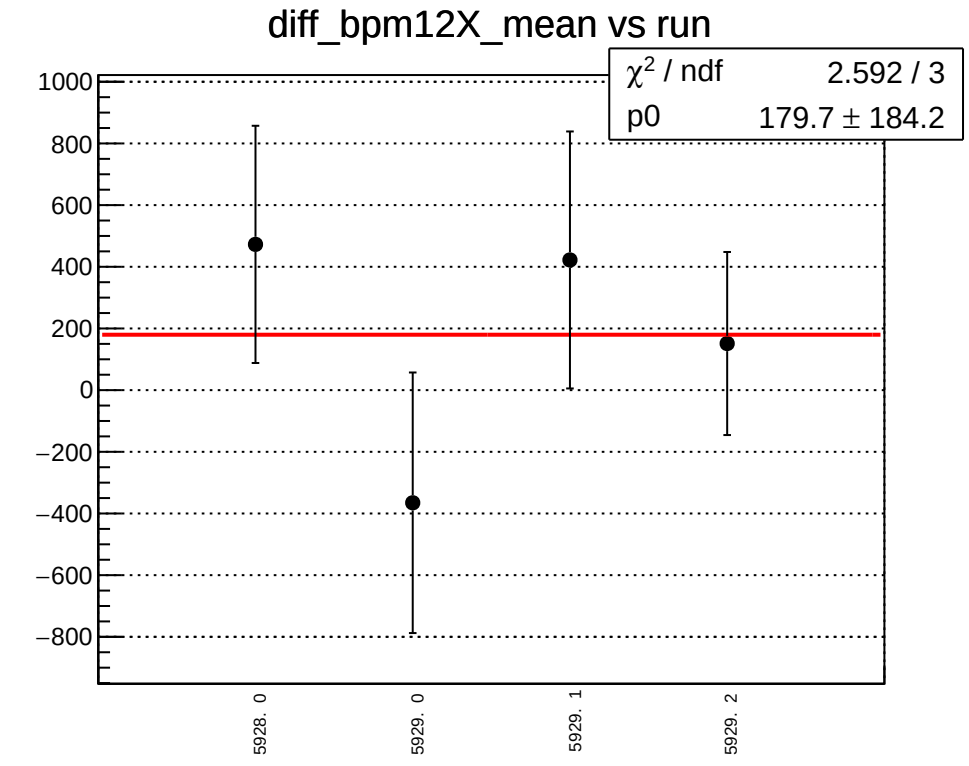

pull1D
Entries 4
Mean −0.01307
Std Dev 0.8416
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

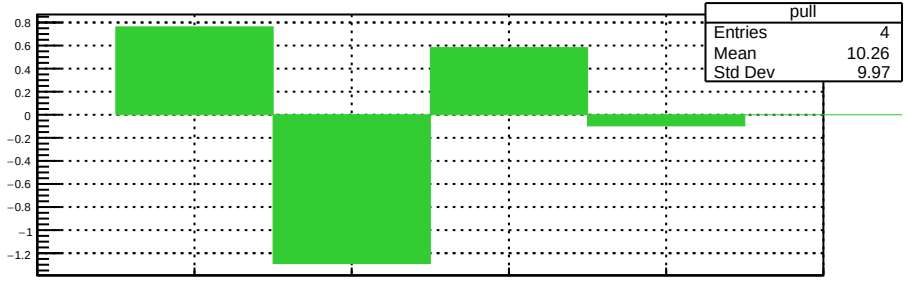

diff_bpm11X_rms vs run
χ² / ndf 59.19 / 3
p0 1.467e+04 ± 49.78
15400
15200
15000
14800
14600
14400
14200
5928. 0
5929. 0
5929. 1
5929. 2

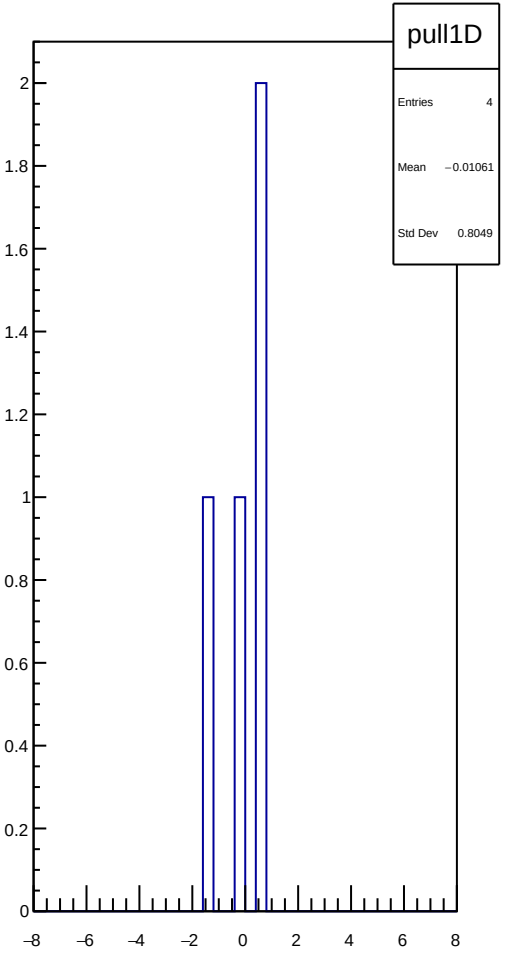

diff_bpm11Y_mean vs run
χ² / ndf 1.059 / 3
p0 −57.83 ± 59.5
100
0
−100
−200
−300
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.438
Std Dev 4.46
0.8
0.6
0.4
0.2
0
−0.2
−0.4

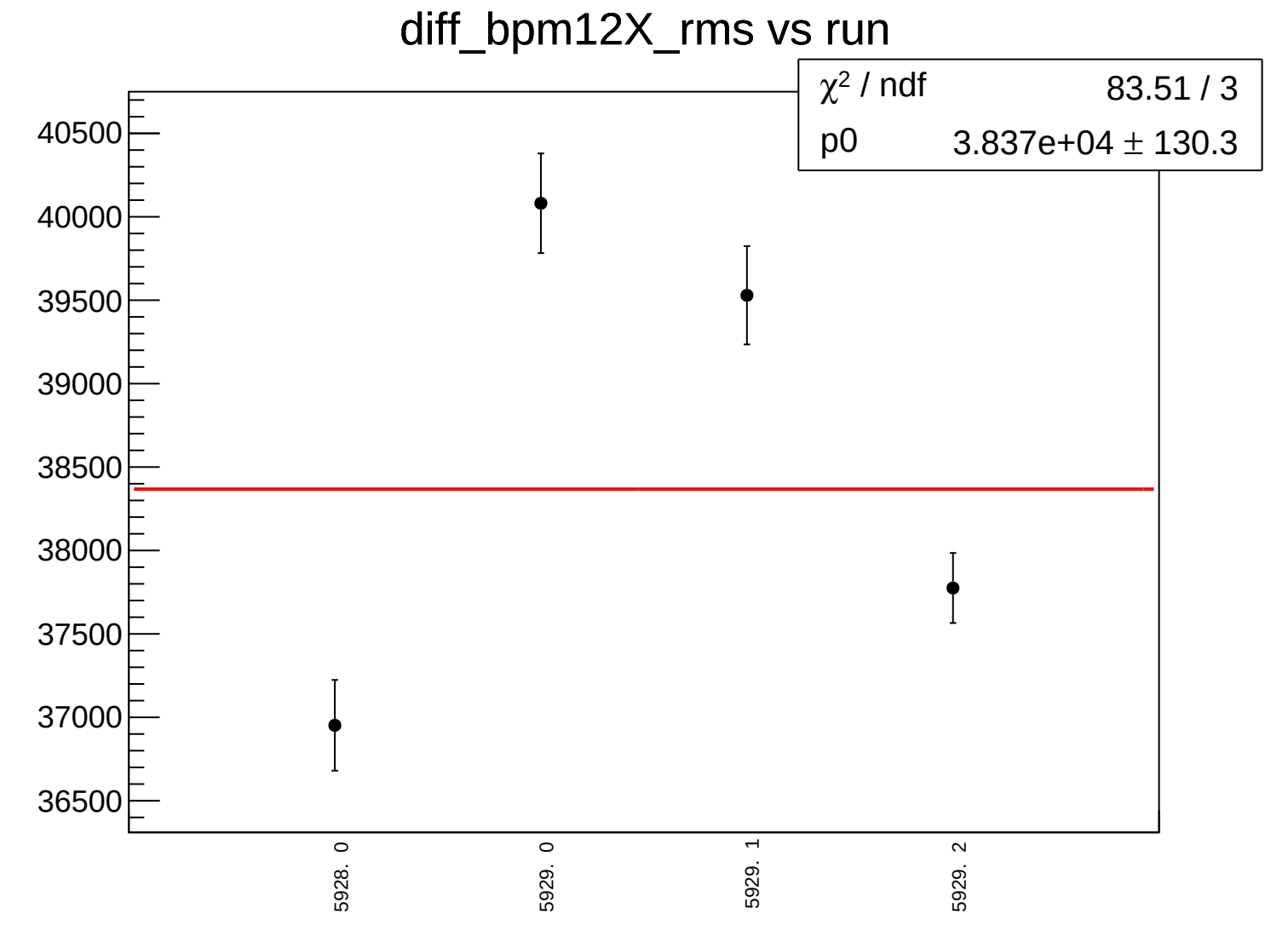

pull1D
Entries 4
Mean −0.01823
Std Dev 0.5142
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

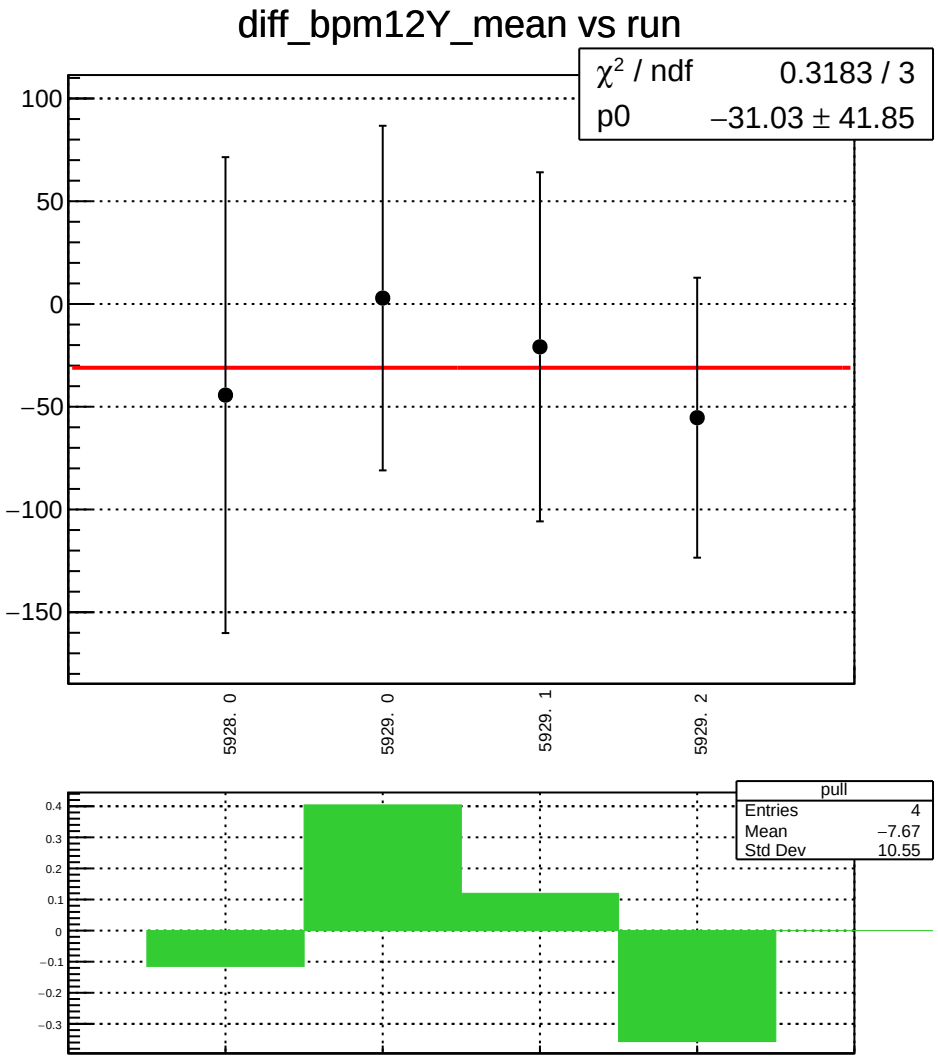

diff_bpm11Y_rms vs run
χ² / ndf 1492 / 3
p0 1.229e+04 ± 42.08
17000
16000
15000
14000
13000
12000
11000
5928. 0
5929. 0
5929. 1
5929. 2

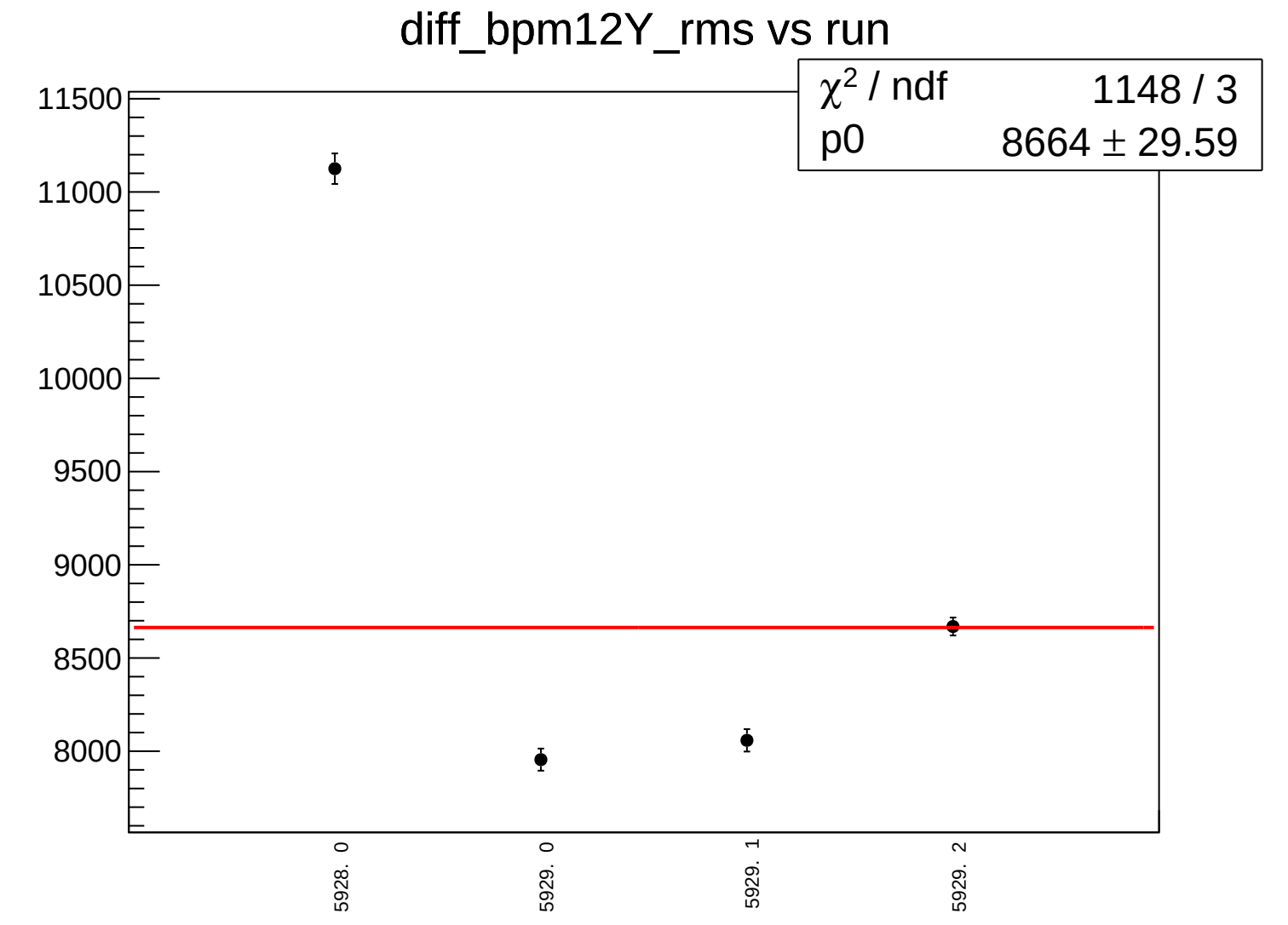

diff_bpm12X_mean vs run
χ² / ndf 2.592 / 3
p0 179.7 ± 184.2
1000
800
600
400
200
0
−200
−400
−600
−800
5928. 0
5929. 0
5929. 1
5929. 2

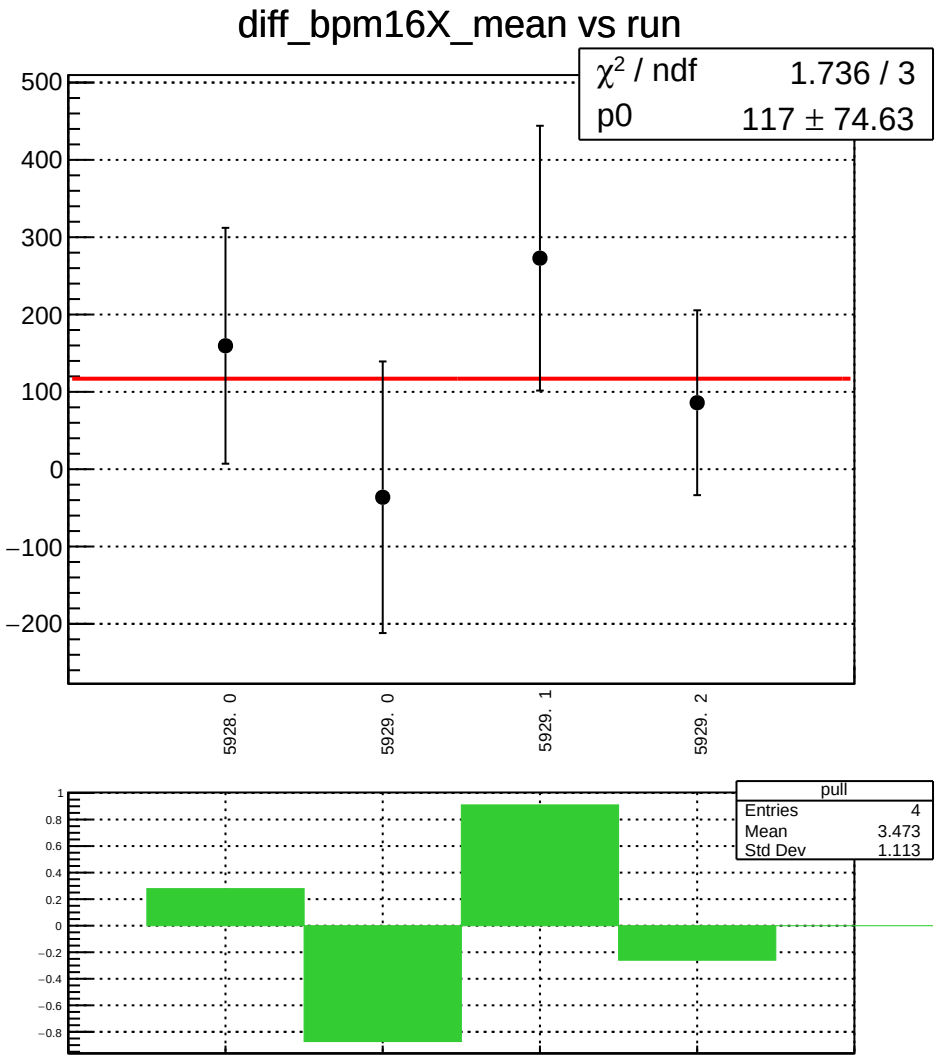

pull
Entries 4
Mean 10.26
Std Dev 9.97
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

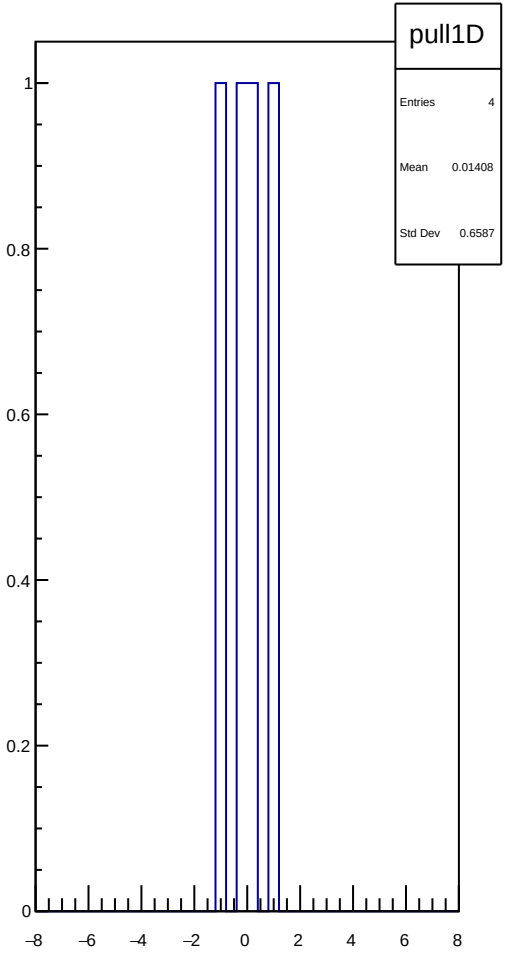

pull1D
Entries 4
Mean −0.01061
Std Dev 0.8049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

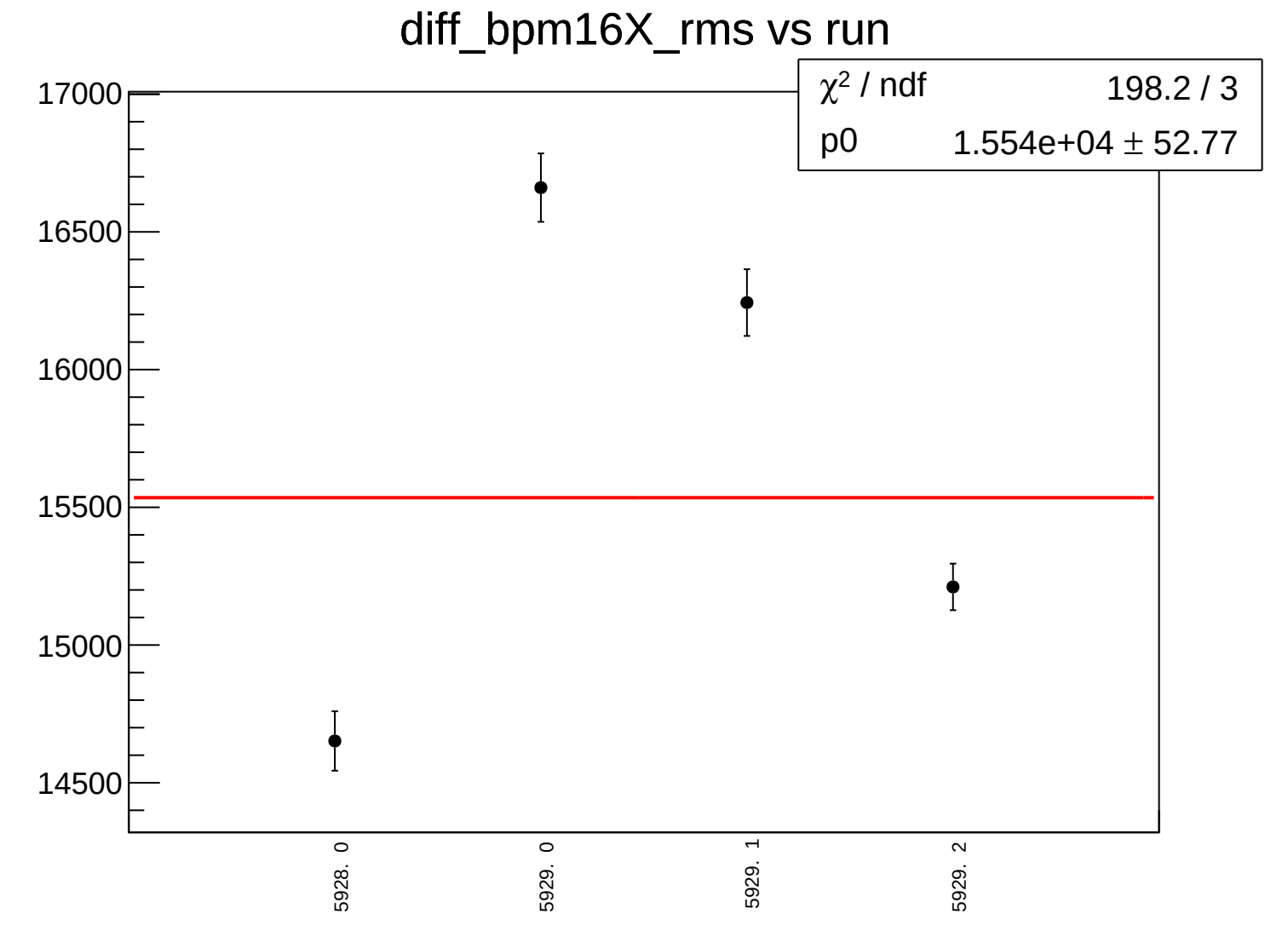

diff_bpm12X_rms vs run
χ² / ndf 83.51 / 3
p0 3.837e+04 ± 130.3
40500
40000
39500
39000
38500
38000
37500
37000
36500
5928. 0
5929. 0
5929. 1
5929. 2

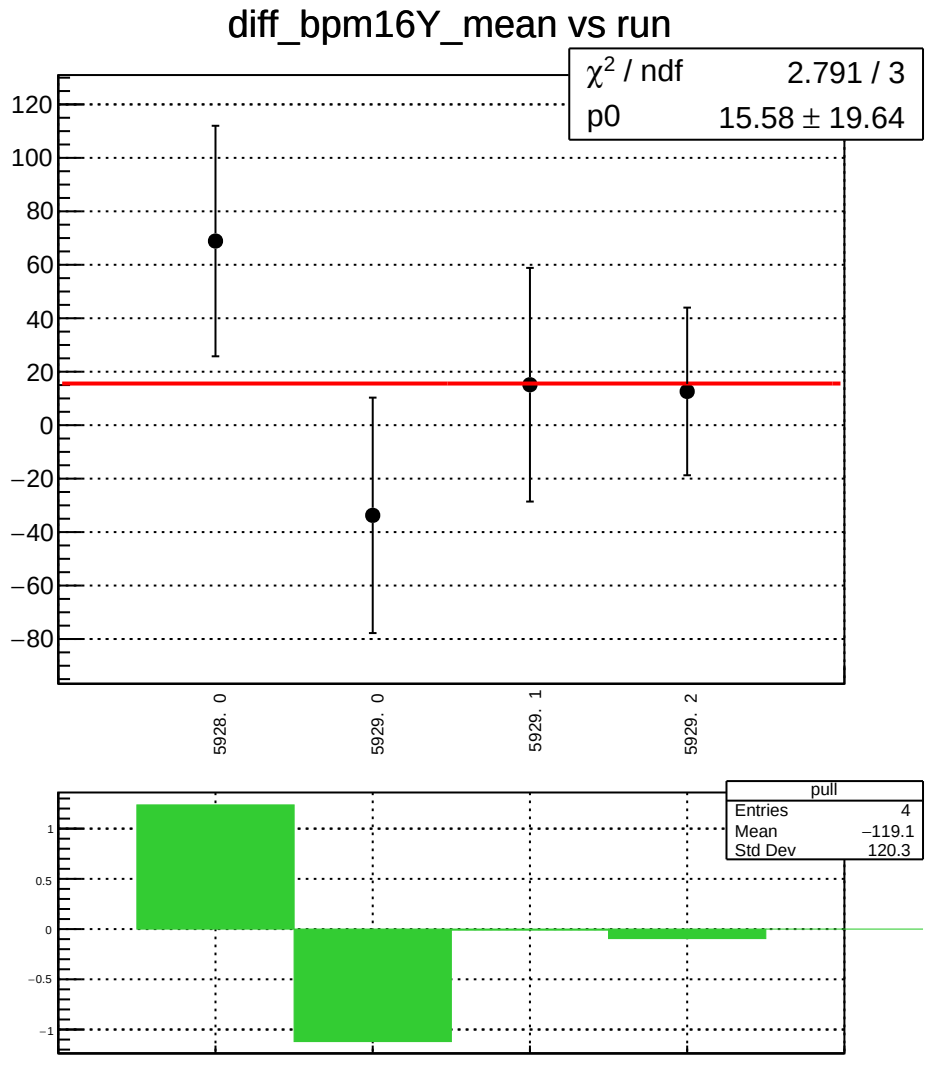

diff_bpm12Y_mean vs run
χ² / ndf 0.3183 / 3
p0 −31.03 ± 41.85
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.67
Std Dev 10.55
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.01306
Std Dev 0.2818
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

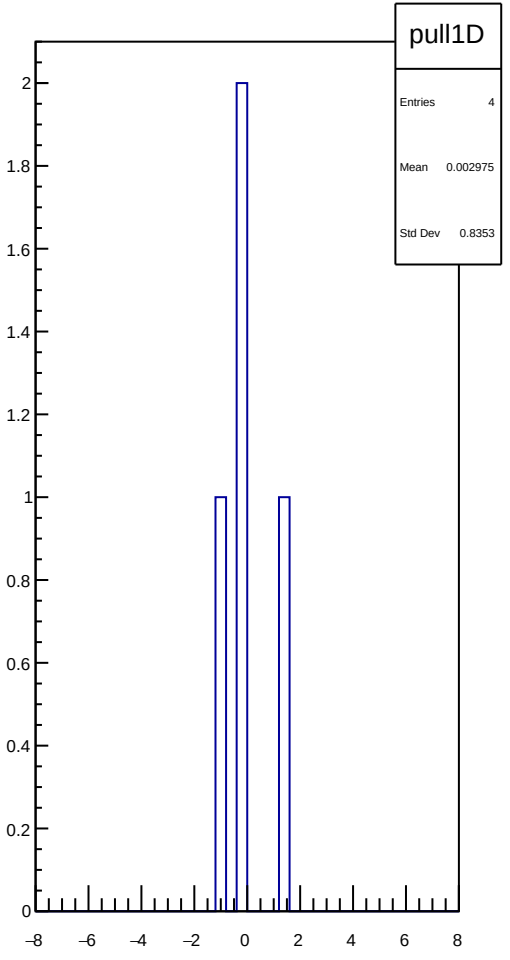

diff_bpm12Y_rms vs run
χ² / ndf 1148 / 3
p0 8664 ± 29.59
11500
11000
10500
10000
9500
9000
8500
8000
5928. 0
5929. 0
5929. 1
5929. 2

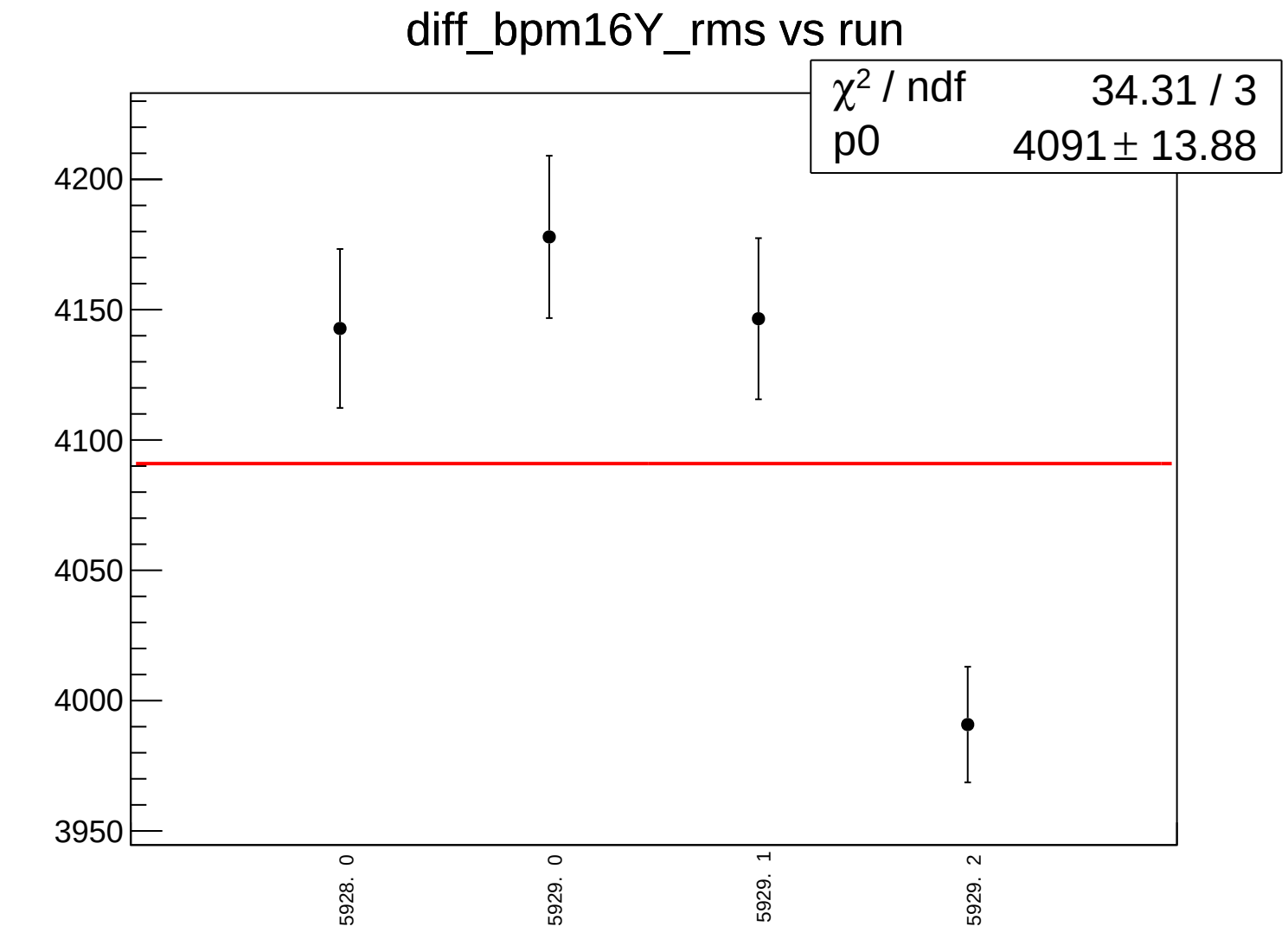

diff_bpm16X_mean vs run
χ² / ndf 1.736 / 3
p0 117 ± 74.63
500
400
300
200
100
0
−100
−200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 3.473
Std Dev 1.113
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

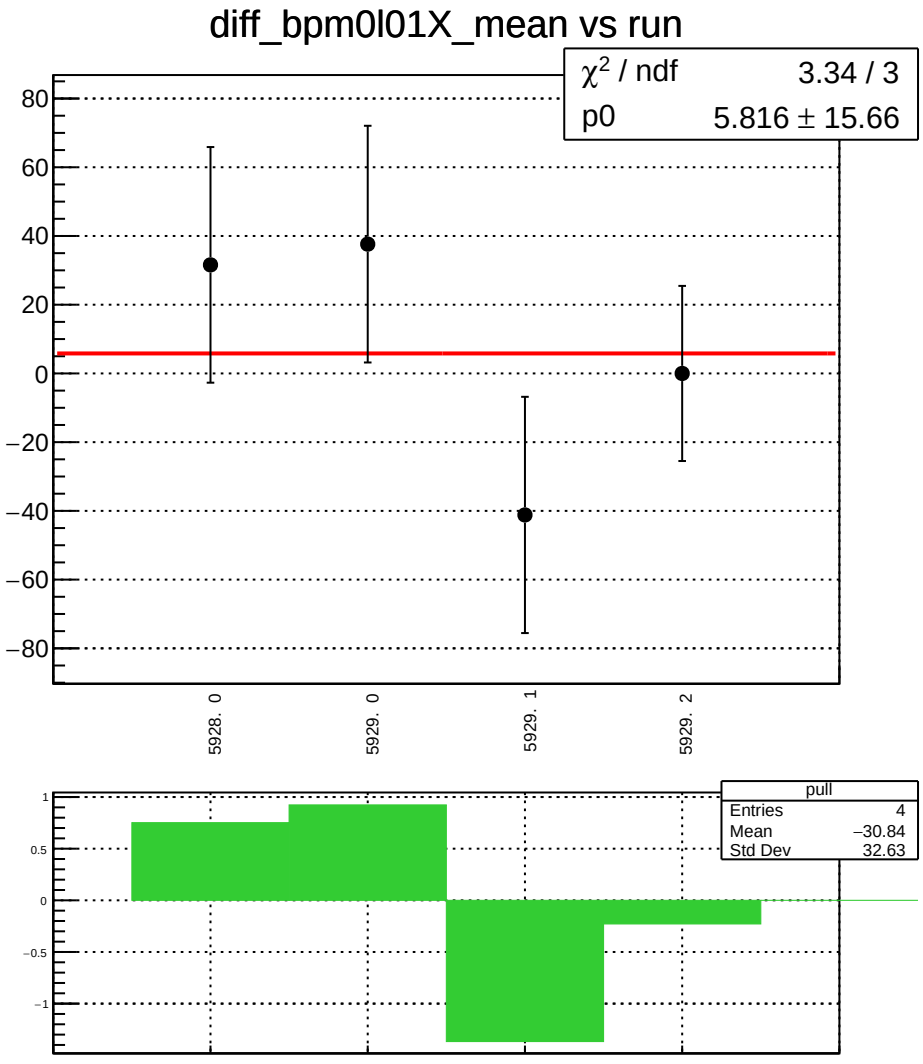

pull1D
Entries 4
Mean 0.01408
Std Dev 0.6587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

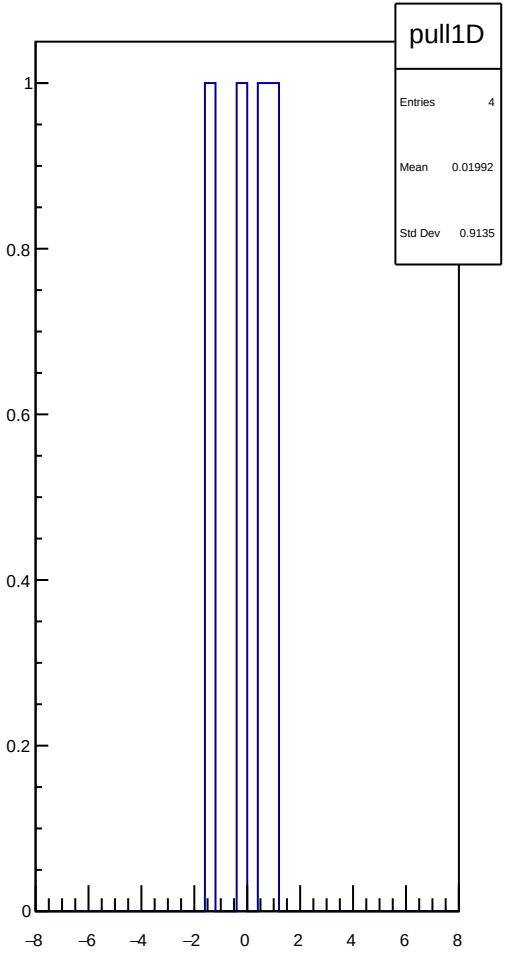

diff_bpm16X_rms vs run
χ² / ndf 198.2 / 3
p0 1.554e+04 ± 52.77
17000
16500
16000
15500
15000
14500
5928. 0
5929. 0
5929. 1
5929. 2

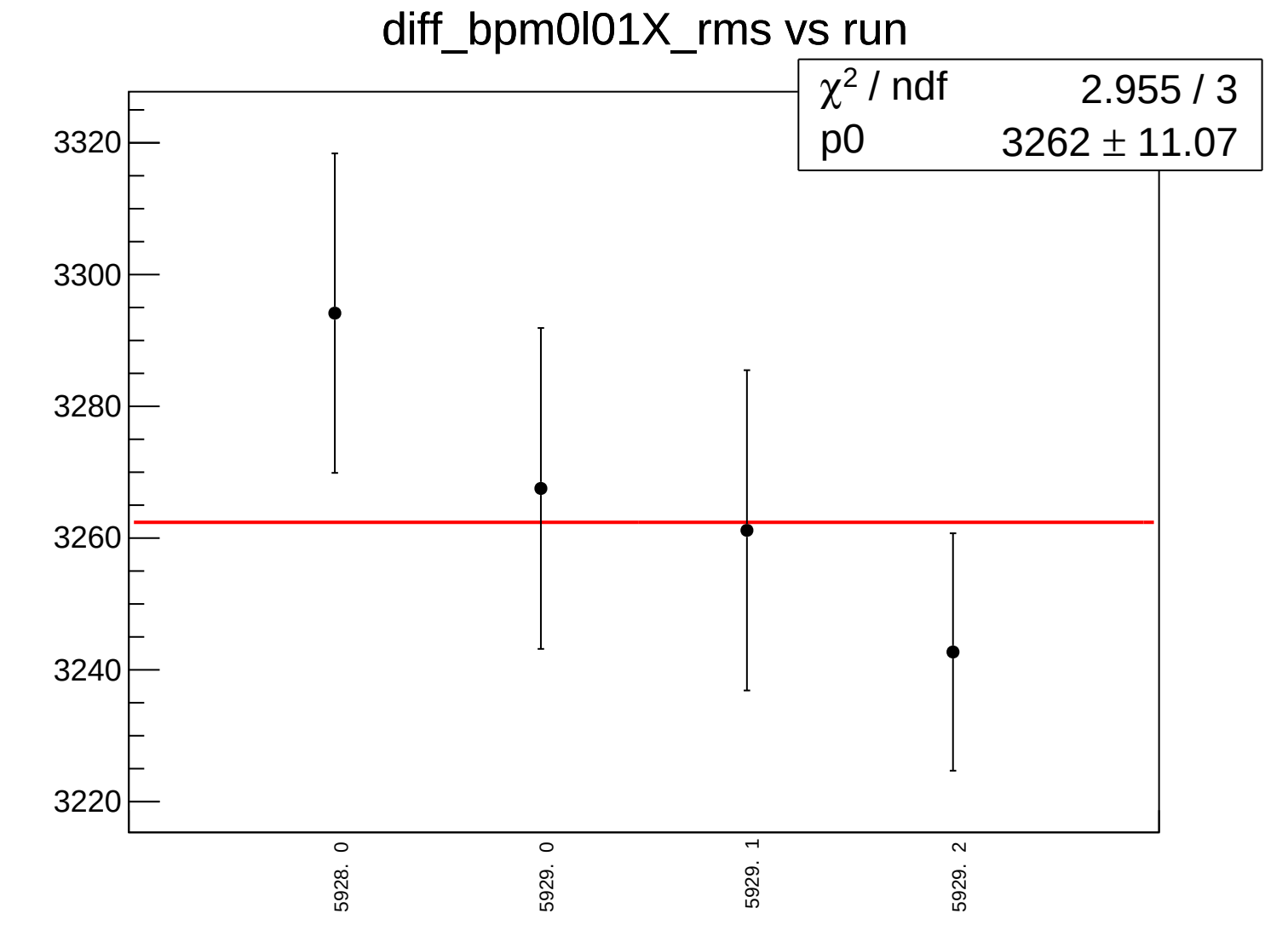

diff_bpm16Y_mean vs run
χ² / ndf 2.791 / 3
p0 15.58 ± 19.64
120
100
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −119.1
Std Dev 120.3
1
0.5
0
−0.5
−1

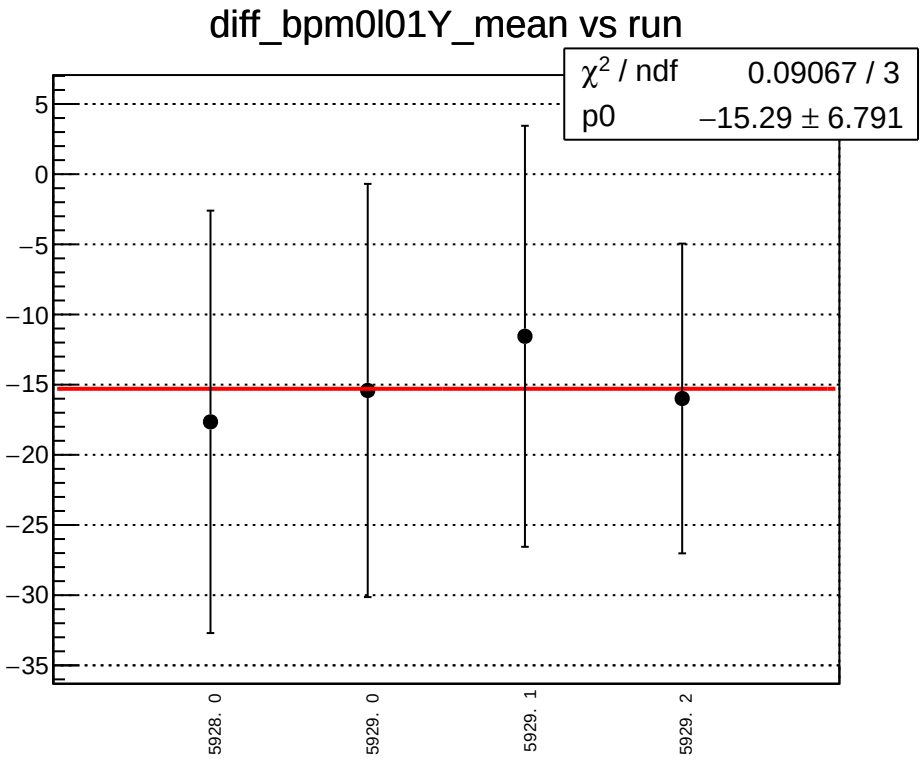

pull1D
Entries 4
Mean 0.002975
Std Dev 0.8353
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

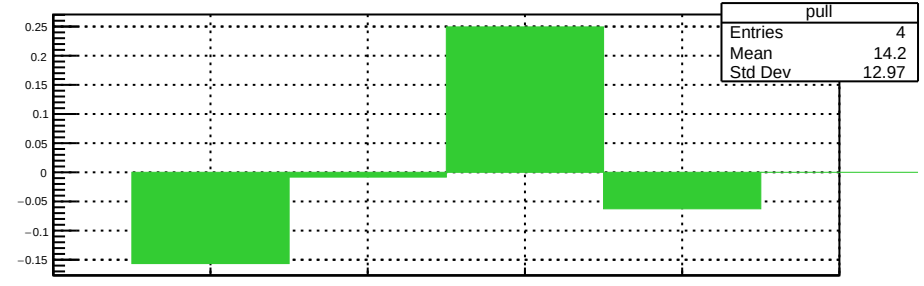

diff_bpm16Y_rms vs run
χ² / ndf 34.31 / 3
p0 4091 ± 13.88
4200
4150
4100
4050
4000
3950
5928. 0
5929. 0
5929. 1
5929. 2

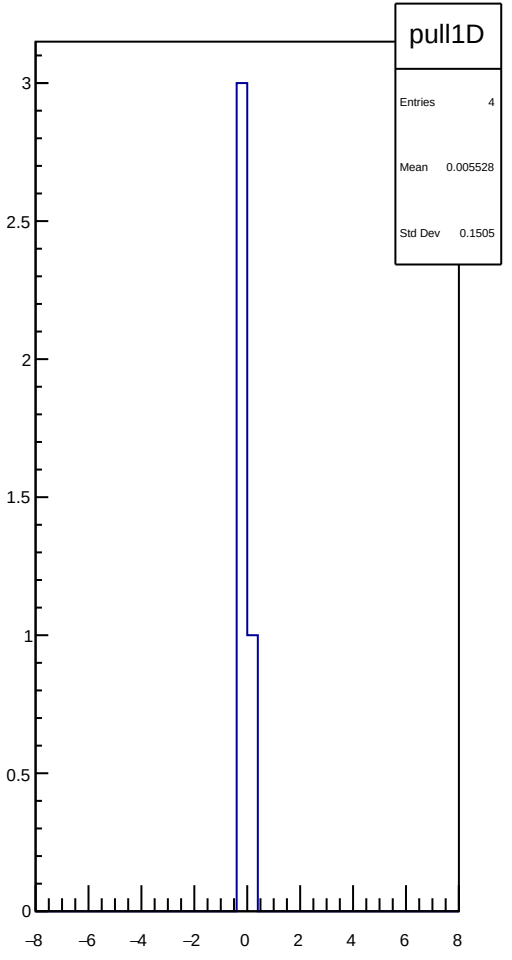

diff_bpm0l01X_mean vs run
χ² / ndf 3.34 / 3
p0 5.816 ± 15.66
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −30.84
Std Dev 32.63
1
0.5
0
−0.5
−1

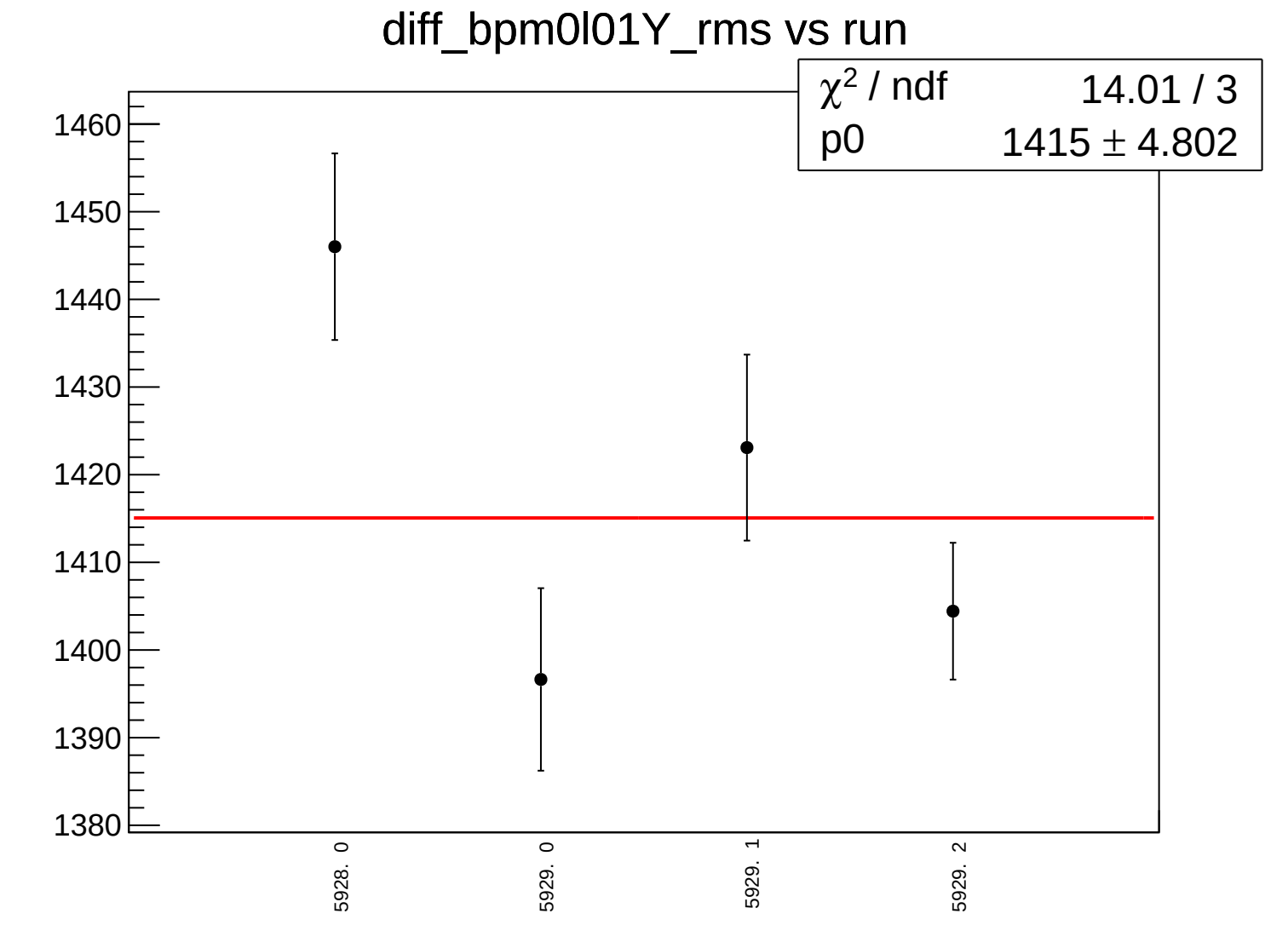

pull1D
Entries 4
Mean 0.01992
Std Dev 0.9135
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

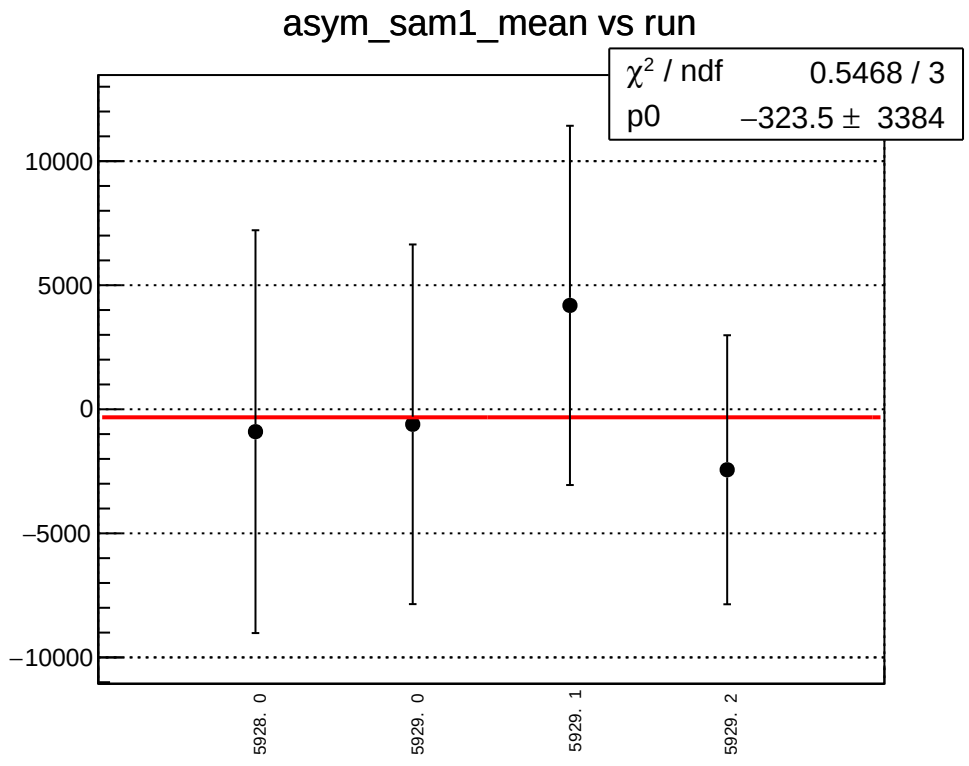

diff_bpm0l01X_rms vs run
χ² / ndf 2.955 / 3
p0 3262 ± 11.07
3320
3300
3280
3260
3240
3220
5928. 0
5929. 0
5929. 1
5929. 2

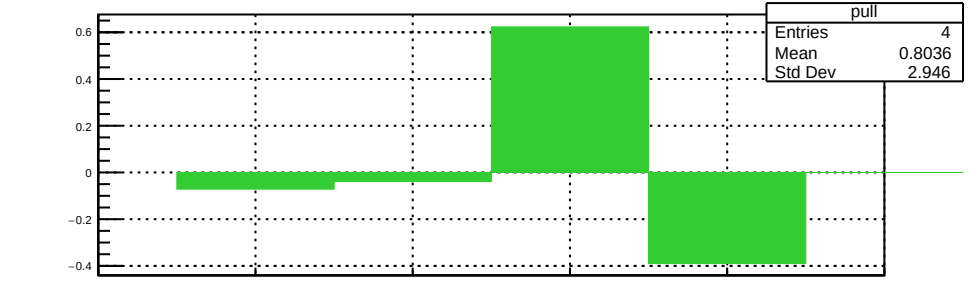

diff_bpm0l01Y_mean vs run
χ² / ndf 0.09067 / 3
p0 −15.29 ± 6.791
5
0
−5
−10
−15
−20
−25
−30
−35
5928. 0
5929. 0
5929. 1
5929. 2

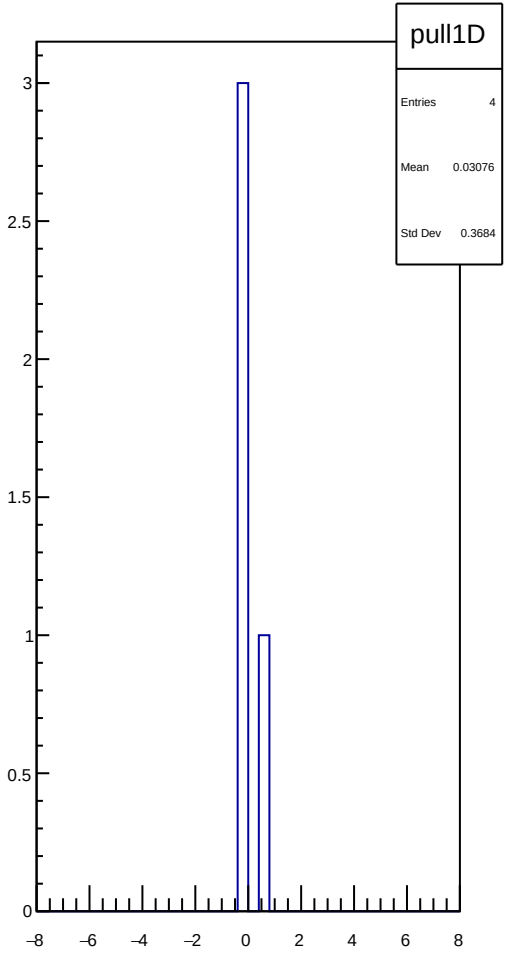

pull
Entries 4
Mean 14.2
Std Dev 12.97
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

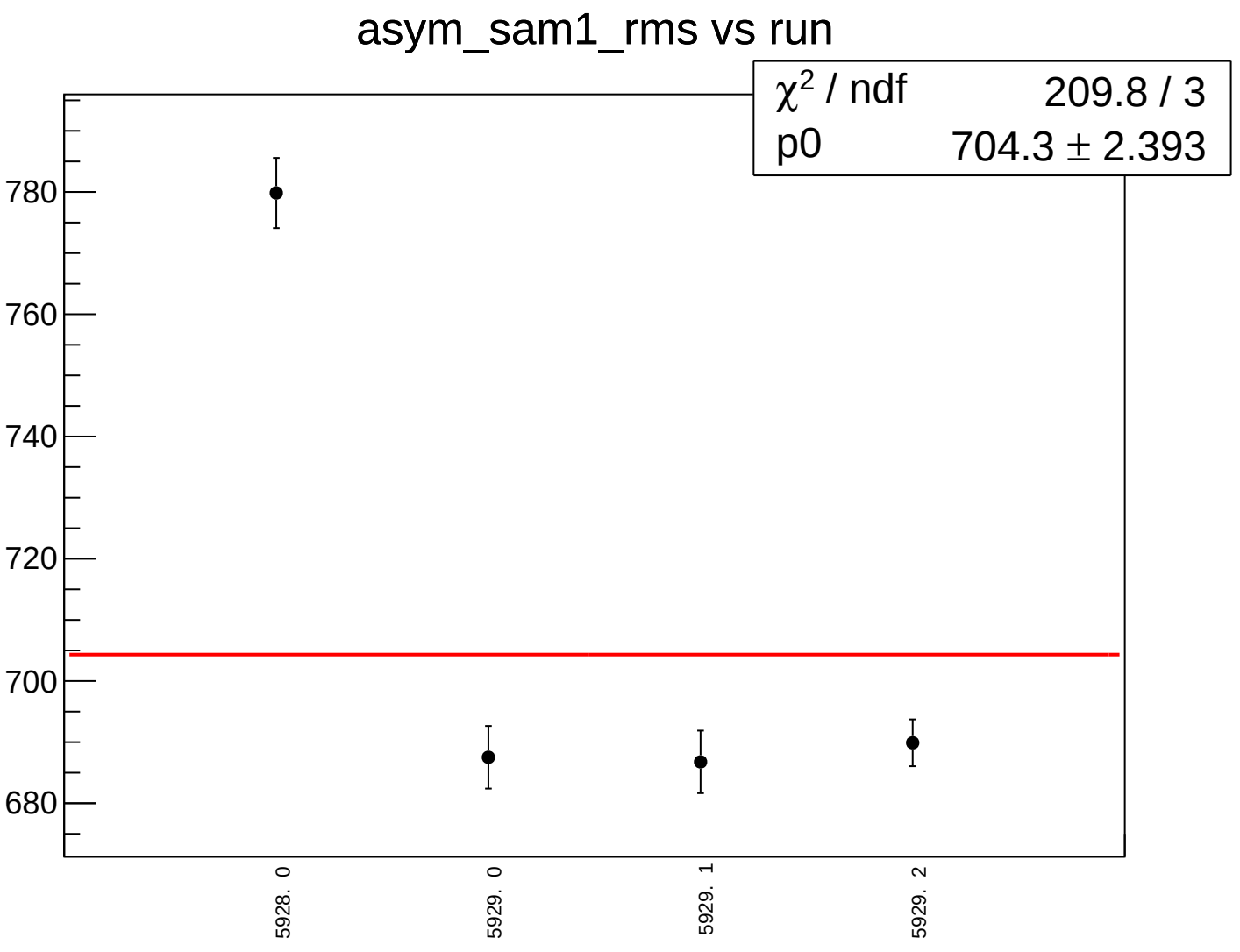

pull1D
Entries 4
Mean 0.005528
Std Dev 0.1505
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

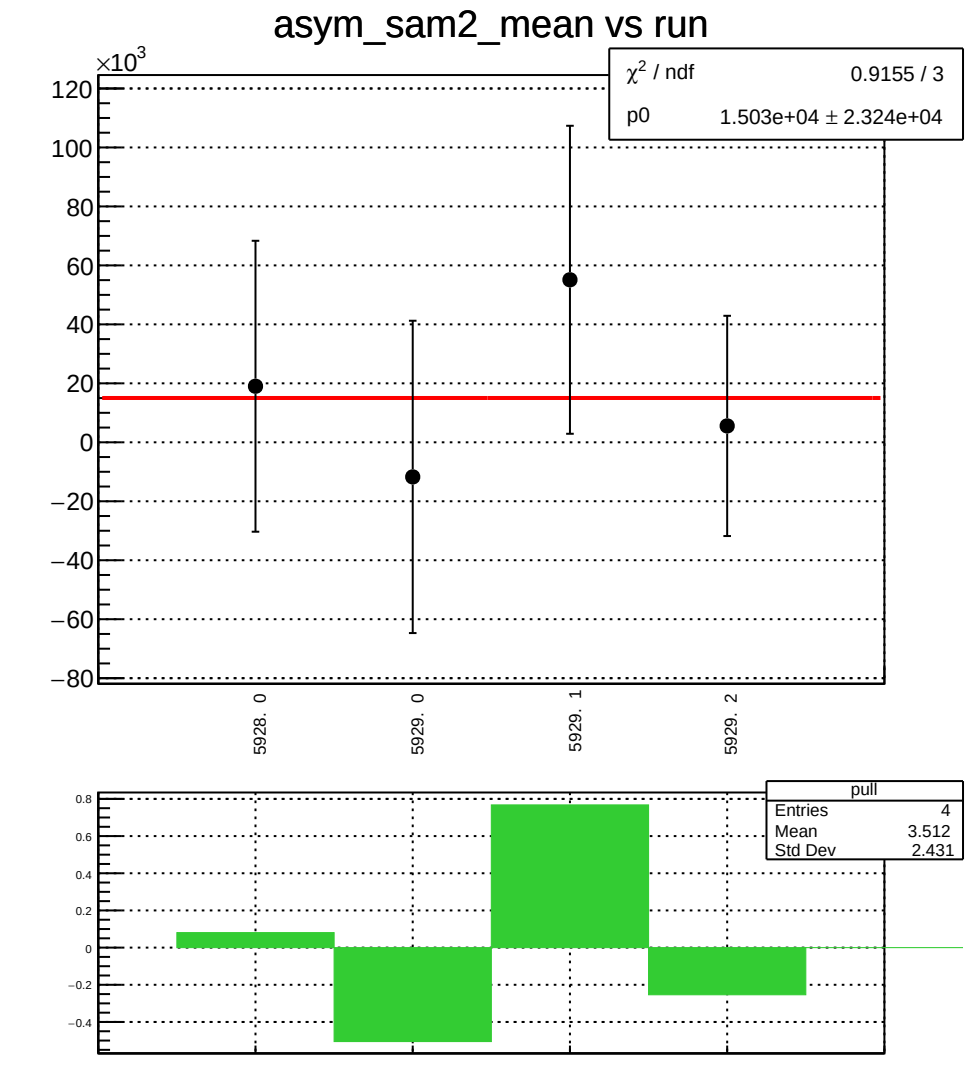

diff_bpm0l01Y_rms vs run
χ² / ndf 14.01 / 3
p0 1415 ± 4.802
1460
1450
1440
1430
1420
1410
1400
1390
1380
5928. 0
5929. 0
5929. 1
5929. 2

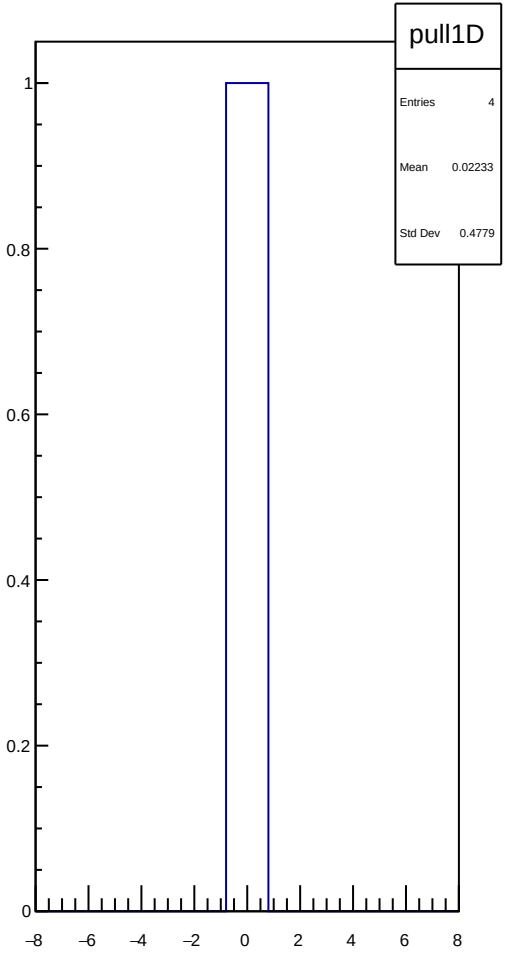

asym_sam1_mean vs run
χ² / ndf 0.5468 / 3
p0 −323.5 ± 3384
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

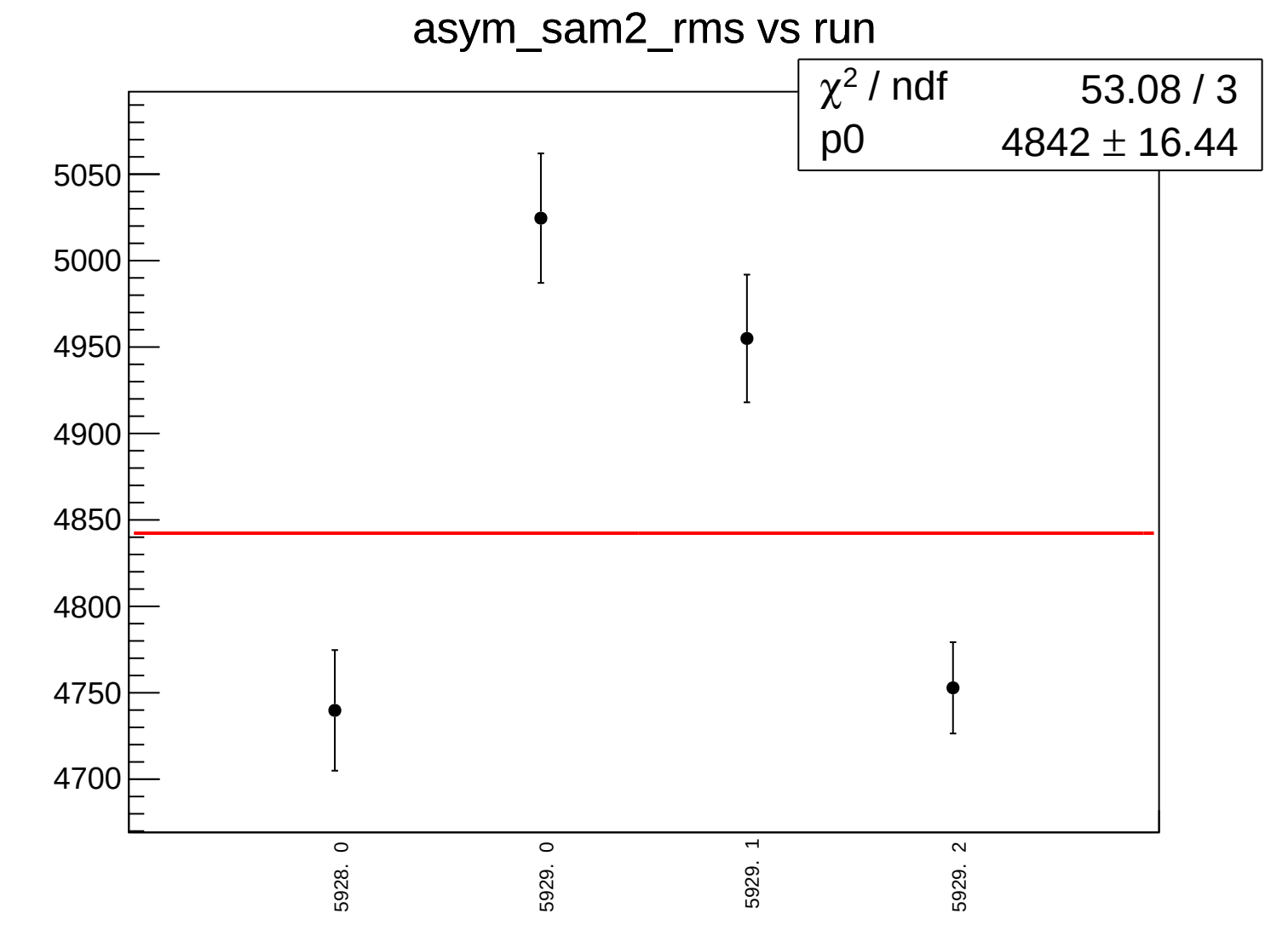

pull
Entries 4
Mean 0.8036
Std Dev 2.946
0.6
0.4
0.2
0
−0.2
−0.4

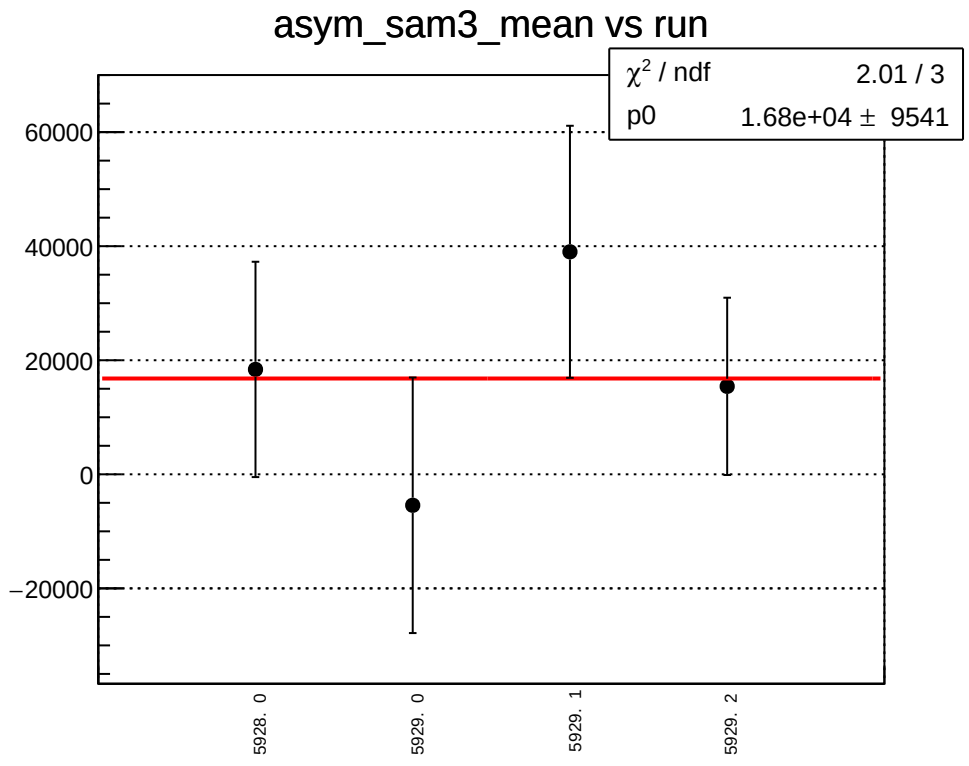

pull1D
Entries 4
Mean 0.03076
Std Dev 0.3684
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

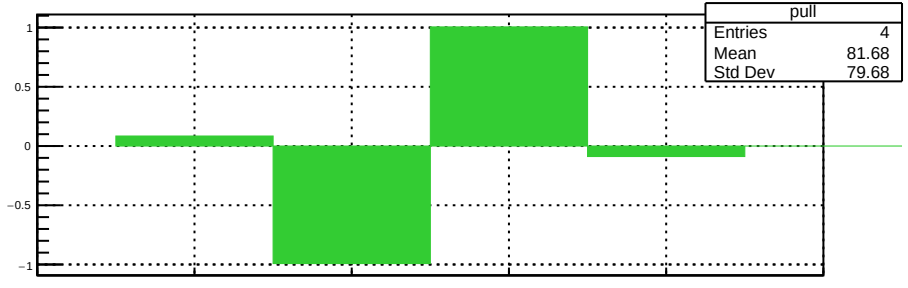

asym_sam1_rms vs run
χ² / ndf 209.8 / 3
p0 704.3 ± 2.393
780
760
740
720
700
680
5928. 0
5929. 0
5929. 1
5929. 2

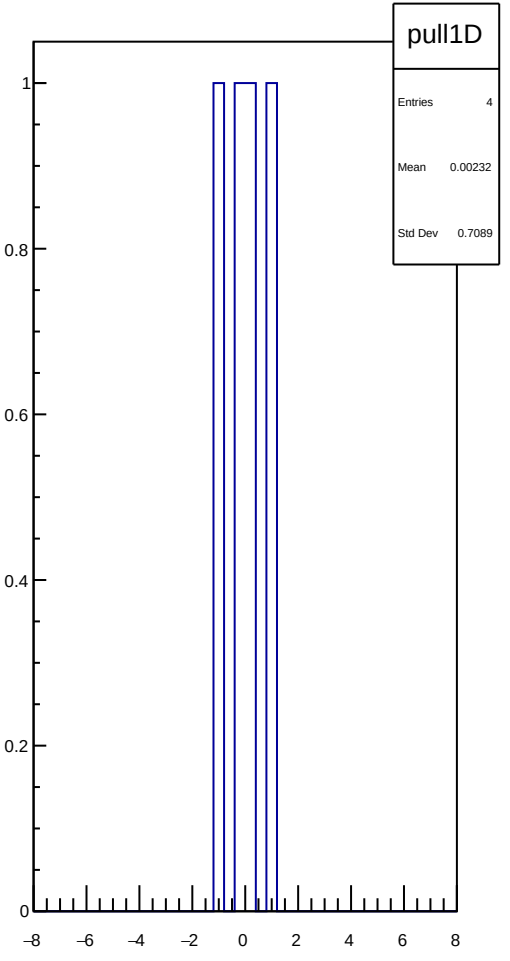

asym_sam2_mean vs run
×10^3
χ² / ndf 0.9155 / 3
p0 1.503e+04 ± 2.324e+04
120
100
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 3.512
Std Dev 2.431
0.8
0.6
0.4
0.2
0
−0.2
−0.4

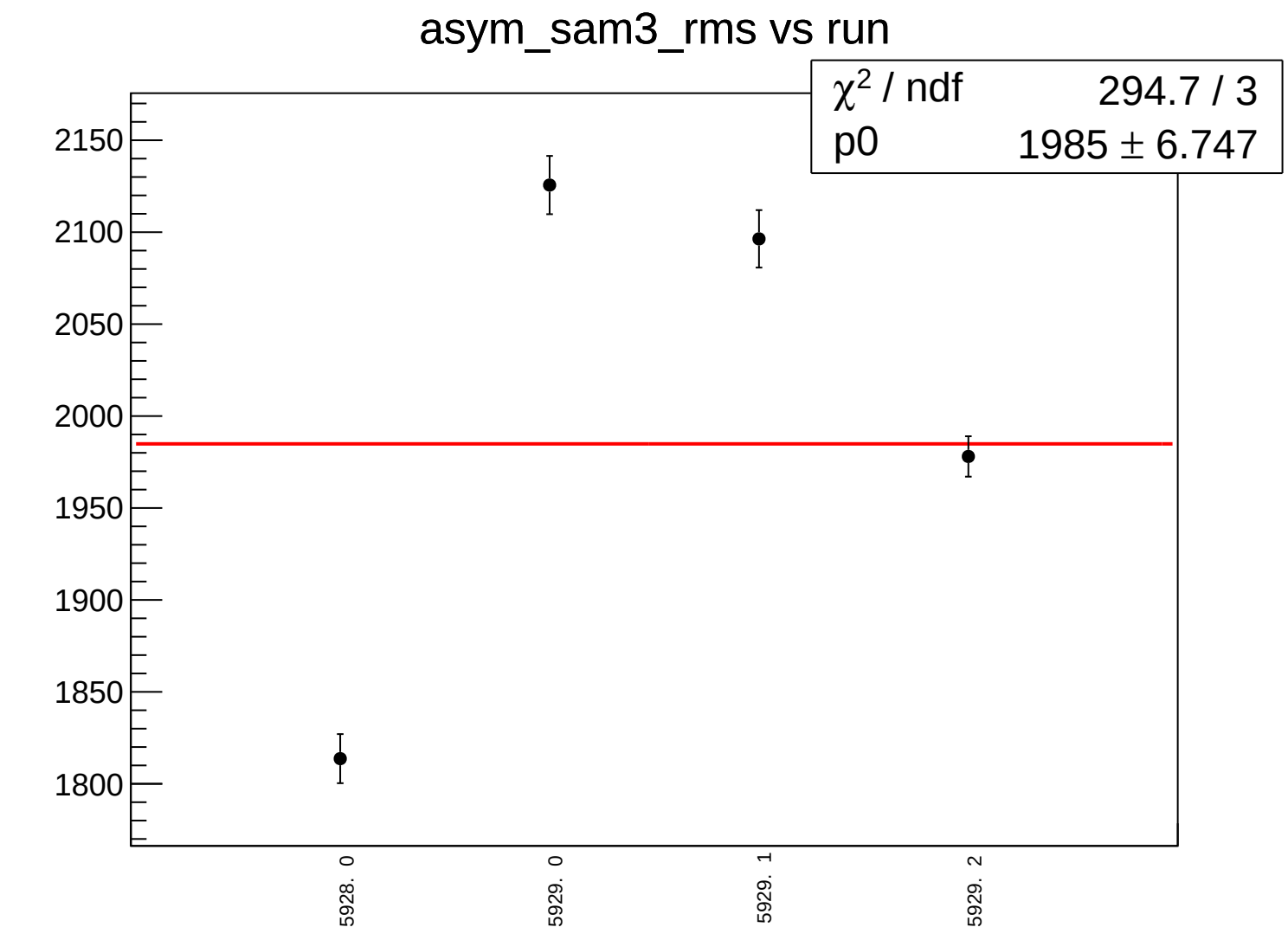

pull1D
Entries 4
Mean 0.02233
Std Dev 0.4779
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

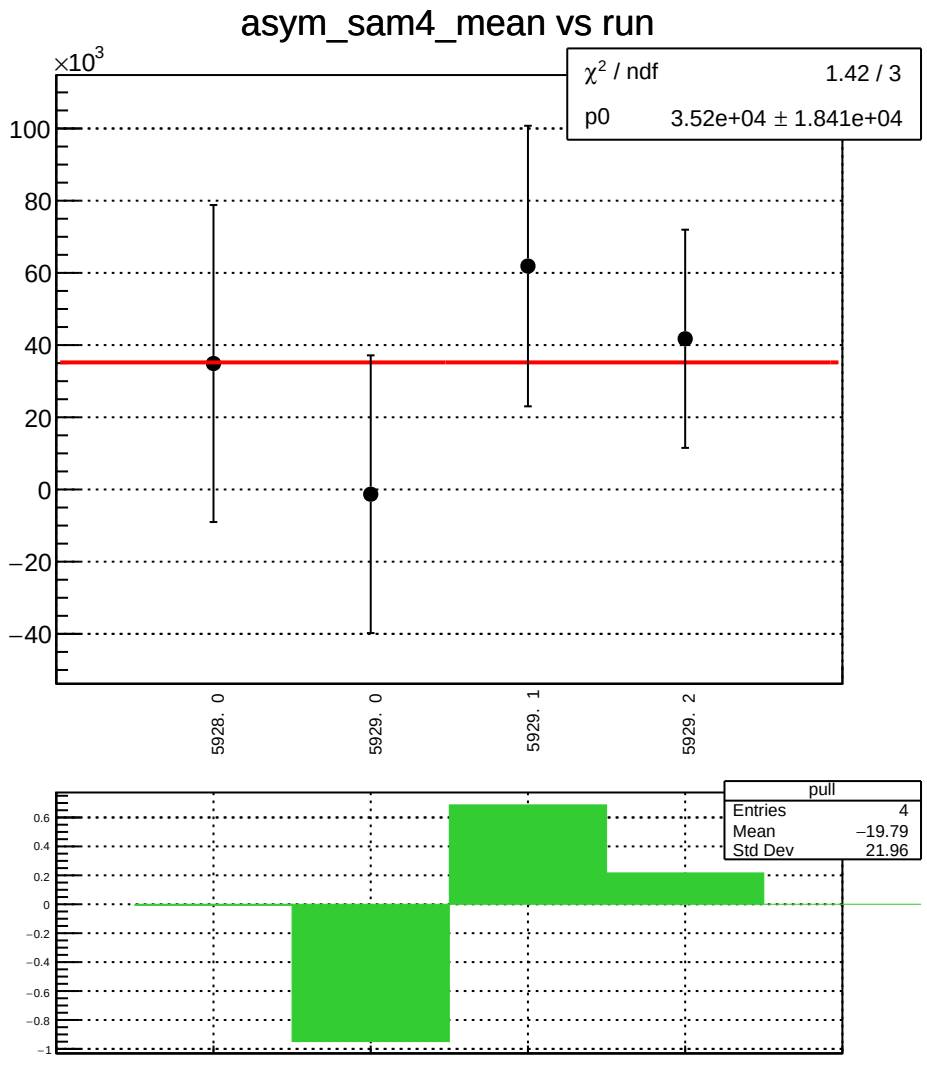

asym_sam2_rms vs run
χ² / ndf 53.08 / 3
p0 4842 ± 16.44
5050
5000
4950
4900
4850
4800
4750
4700
5928. 0
5929. 0
5929. 1
5929. 2

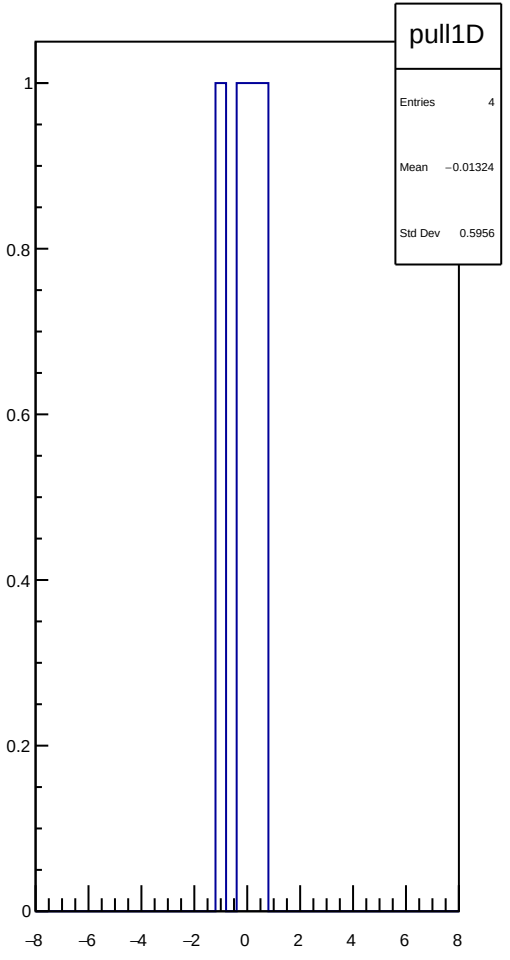

asym_sam3_mean vs run
χ² / ndf 2.01 / 3
p0 1.68e+04 ± 9541
60000
40000
20000
0
−20000
5928. 0
5929. 0
5929. 1
5929. 2

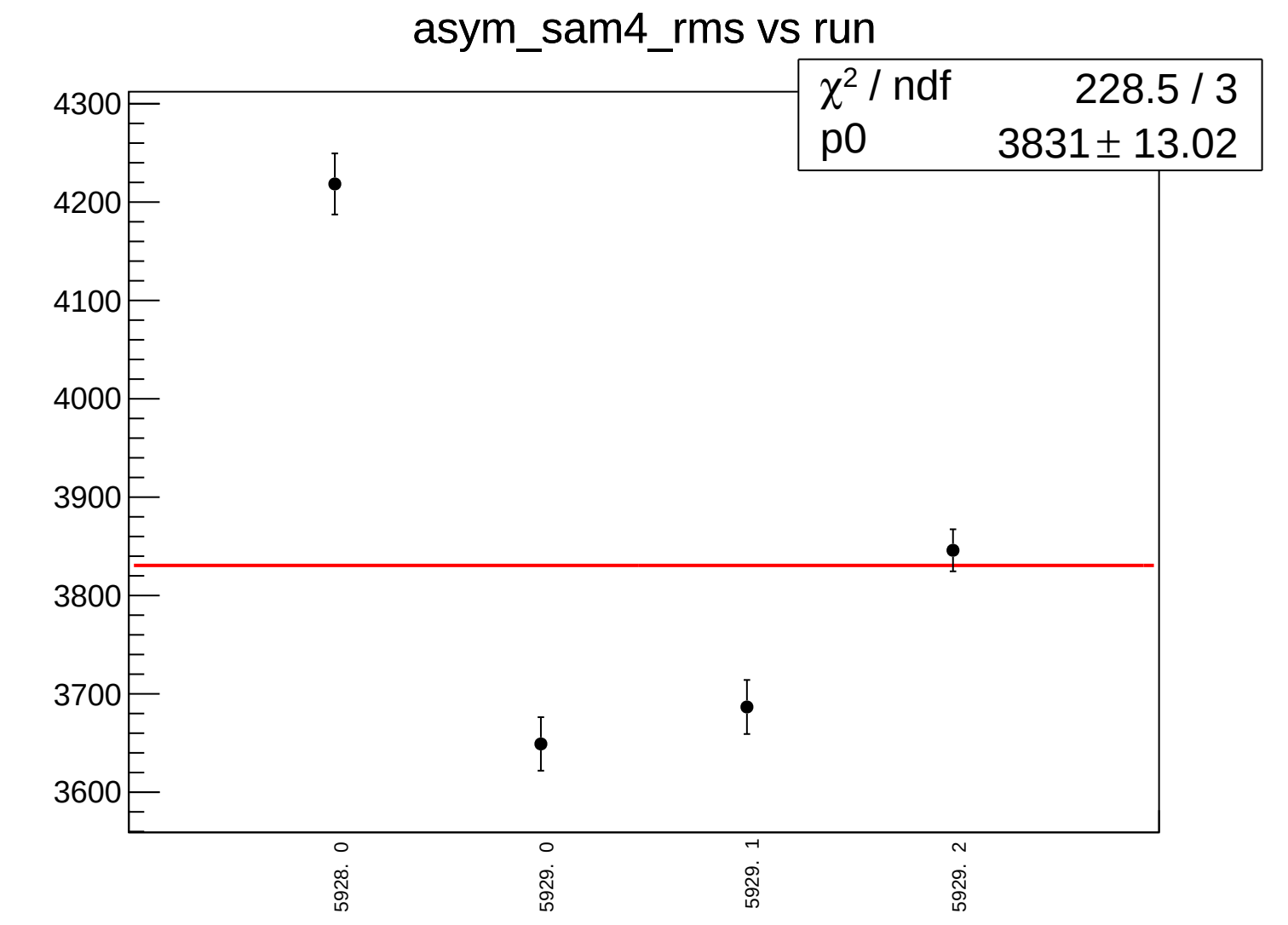

pull
Entries 4
Mean 81.68
Std Dev 79.68
1
0.5
0
−0.5
−1

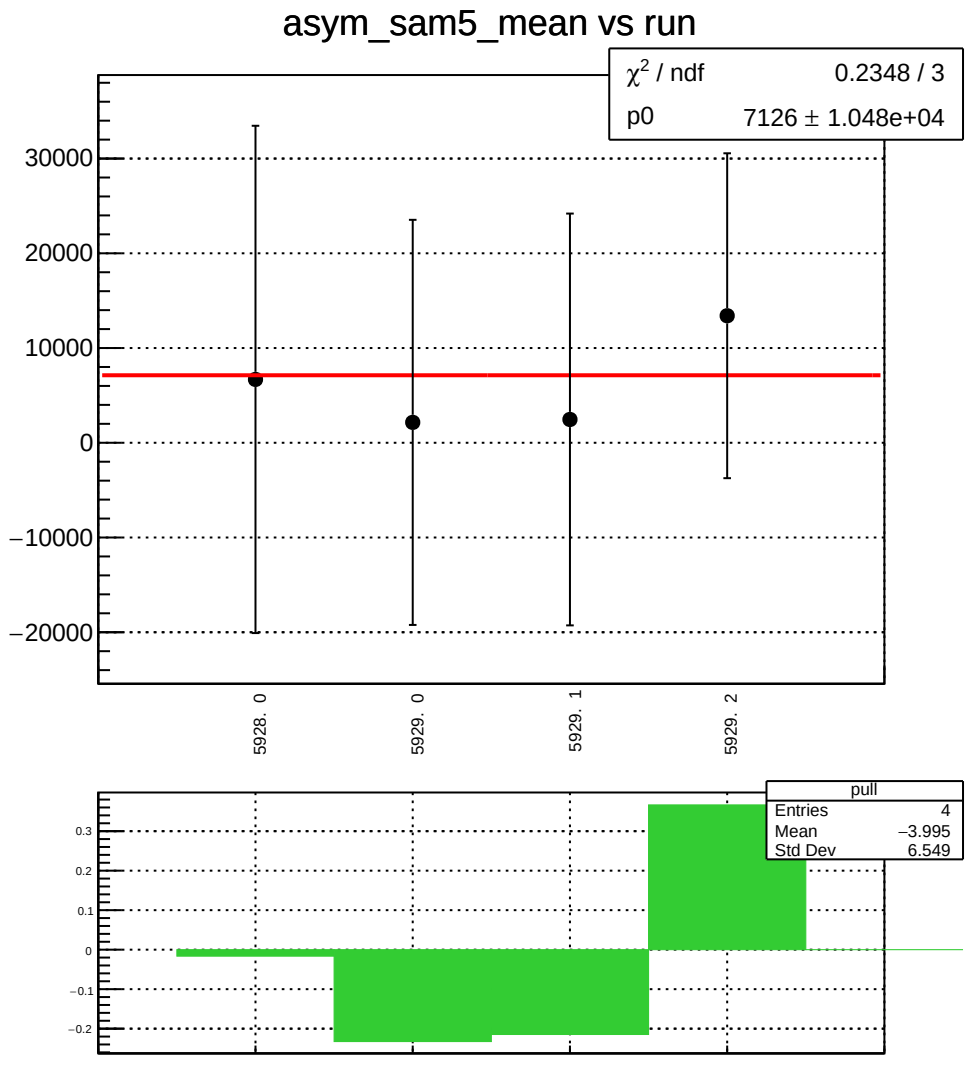

pull1D
Entries 4
Mean 0.00232
Std Dev 0.7089
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

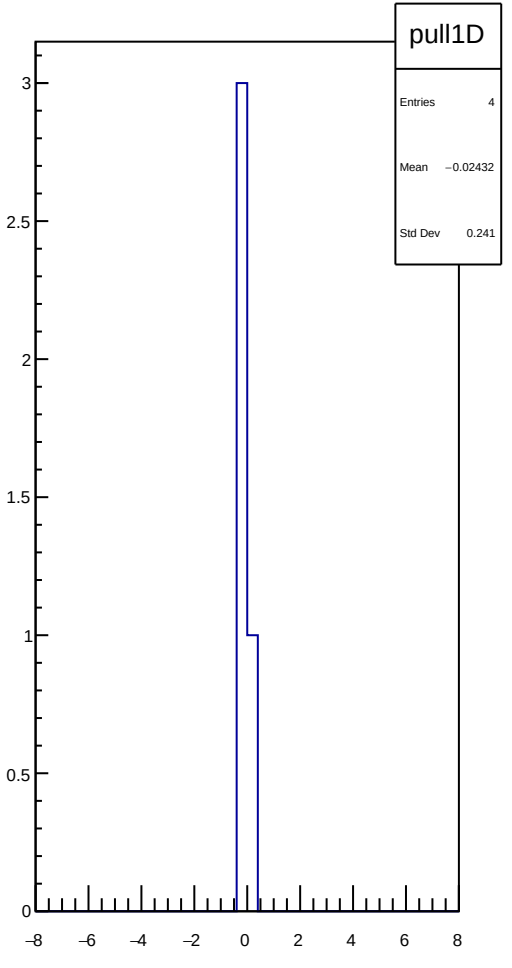

asym_sam3_rms vs run
χ² / ndf 294.7 / 3
p0 1985 ± 6.747
2150
2100
2050
2000
1950
1900
1850
1800
5928. 0
5929. 0
5929. 1
5929. 2

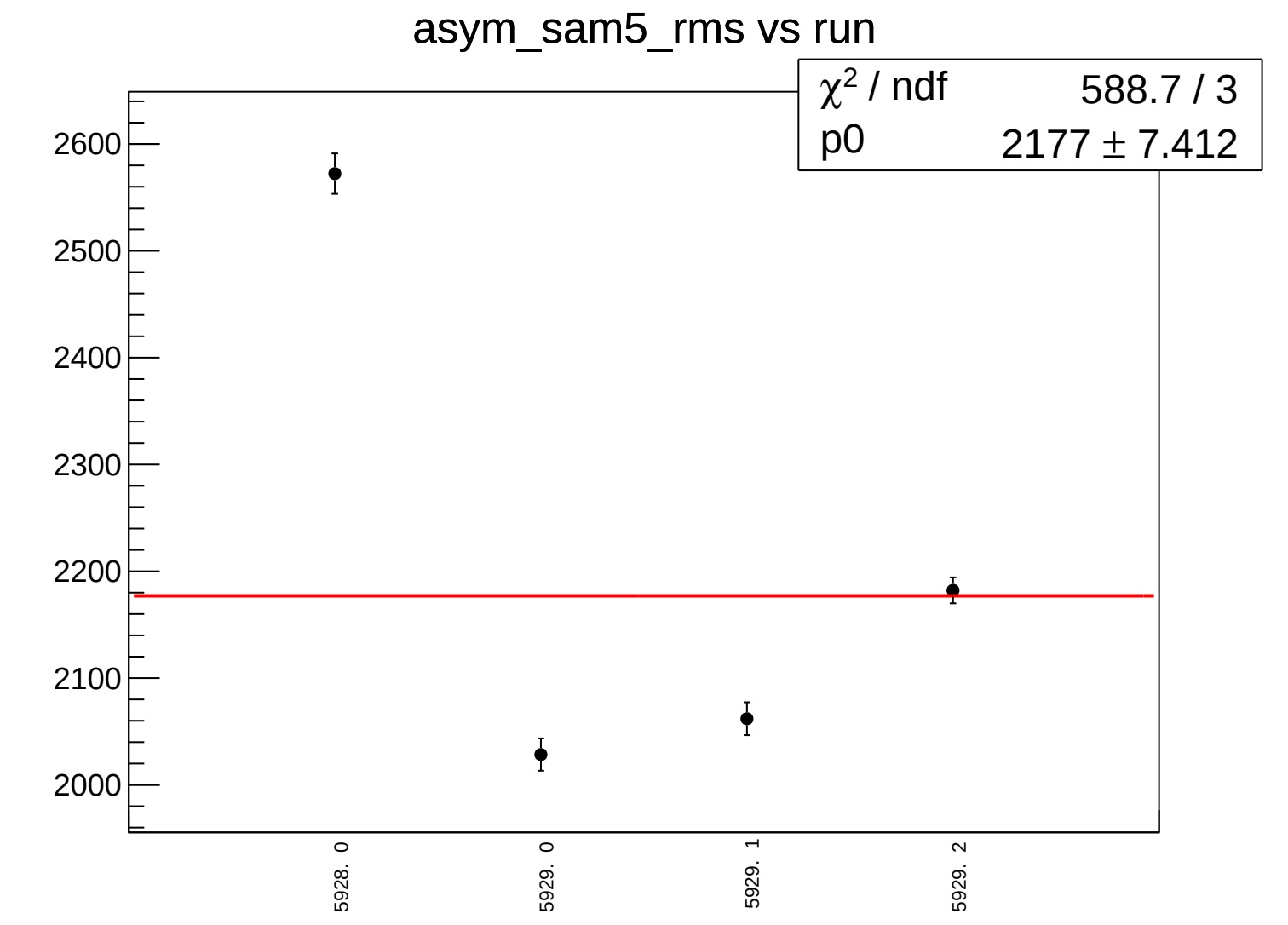

asym_sam4_mean vs run
×10^3
χ² / ndf 1.42 / 3
p0 3.52e+04 ± 1.841e+04
100
80
60
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −19.79
Std Dev 21.96
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

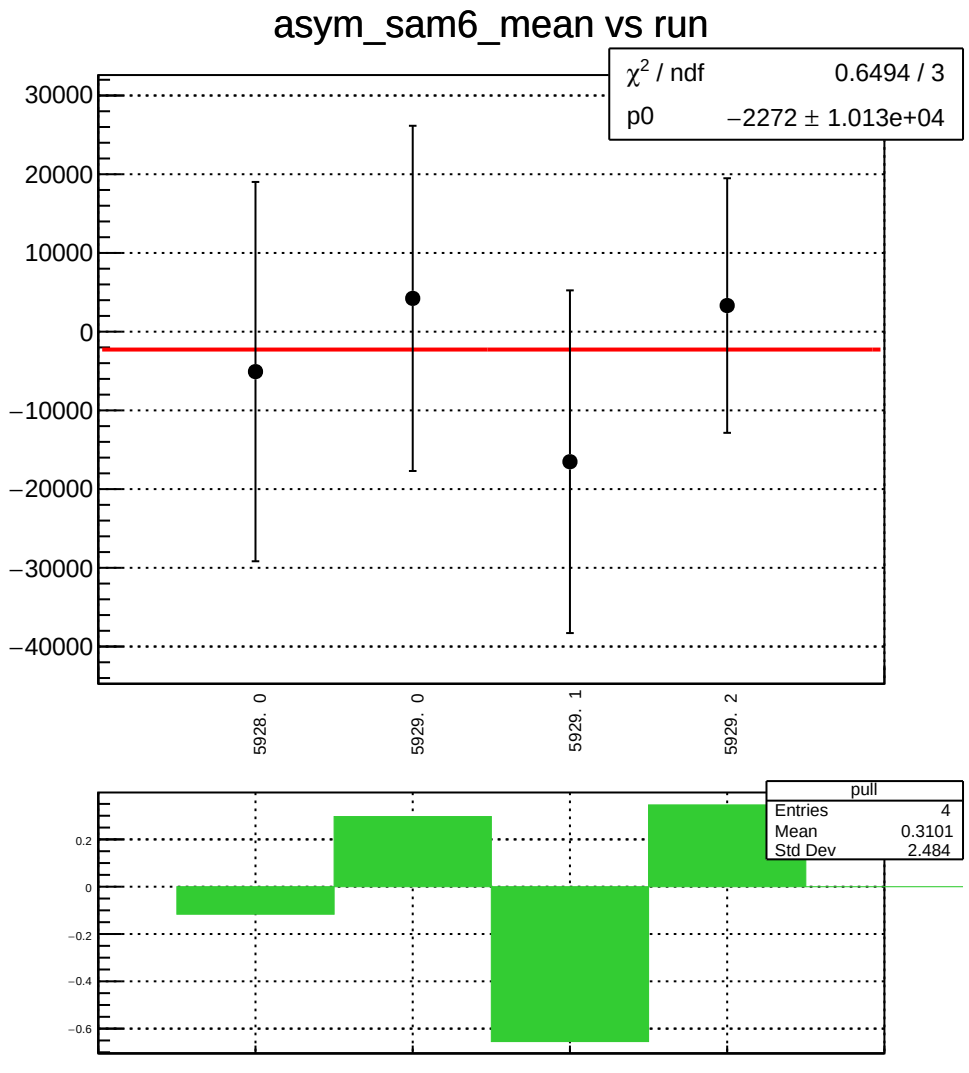

pull1D
Entries 4
Mean −0.01324
Std Dev 0.5956
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

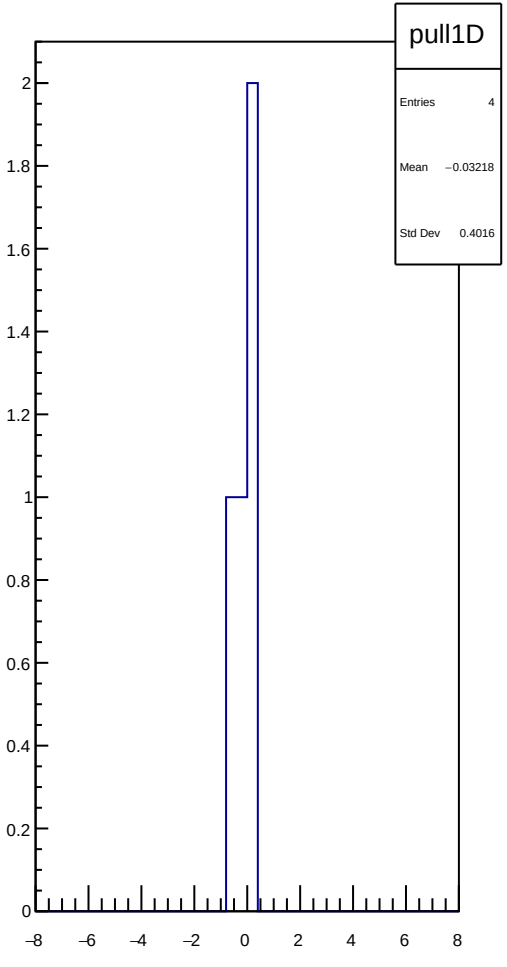

asym_sam4_rms vs run
χ² / ndf 228.5 / 3
p0 3831 ± 13.02
4300
4200
4100
4000
3900
3800
3700
3600
5928. 0
5929. 0
5929. 1
5929. 2

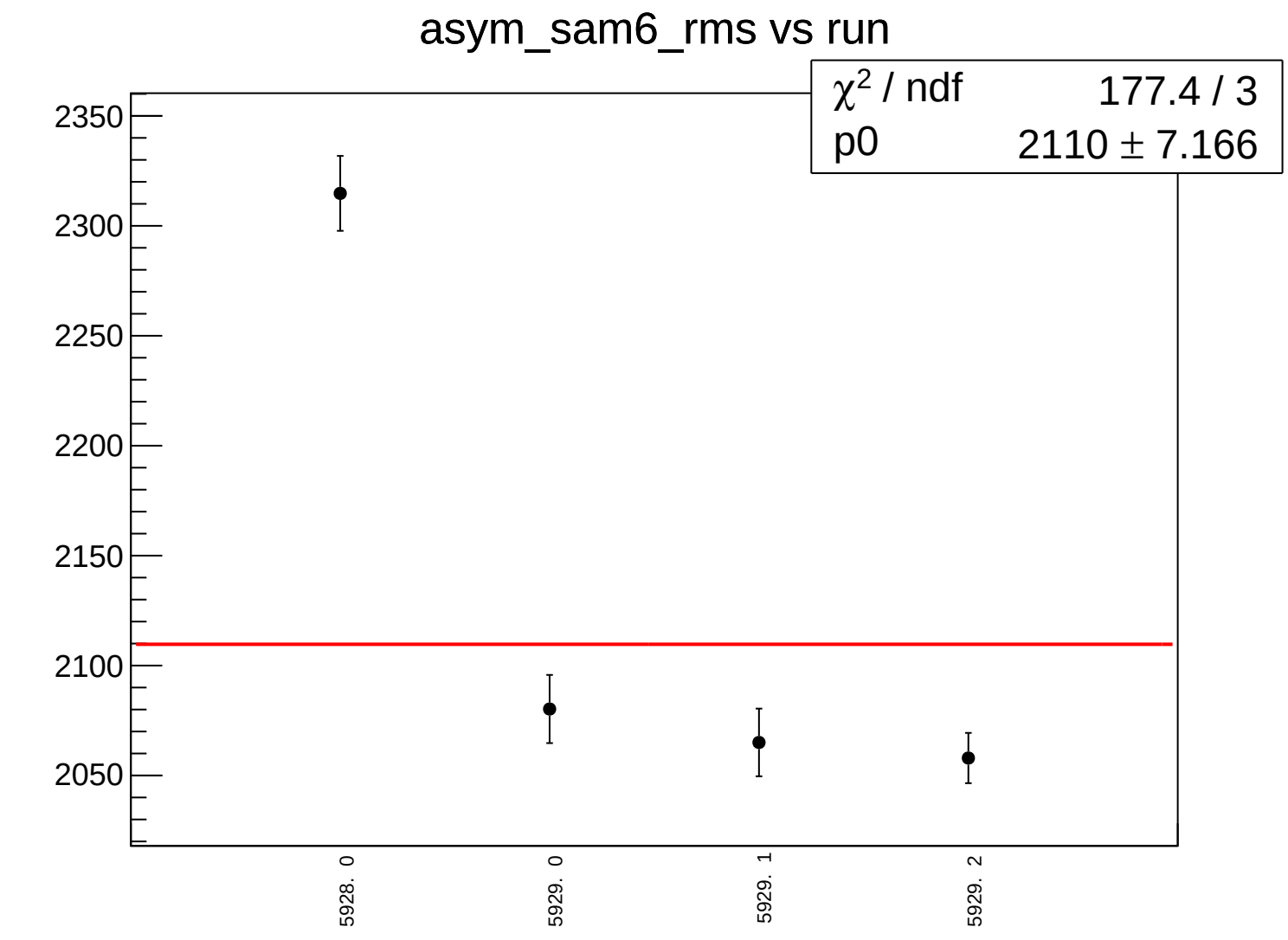

asym_sam5_mean vs run
χ² / ndf 0.2348 / 3
p0 7126 ± 1.048e+04
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.995
Std Dev 6.549
0.3
0.2
0.1
0
−0.1
−0.2

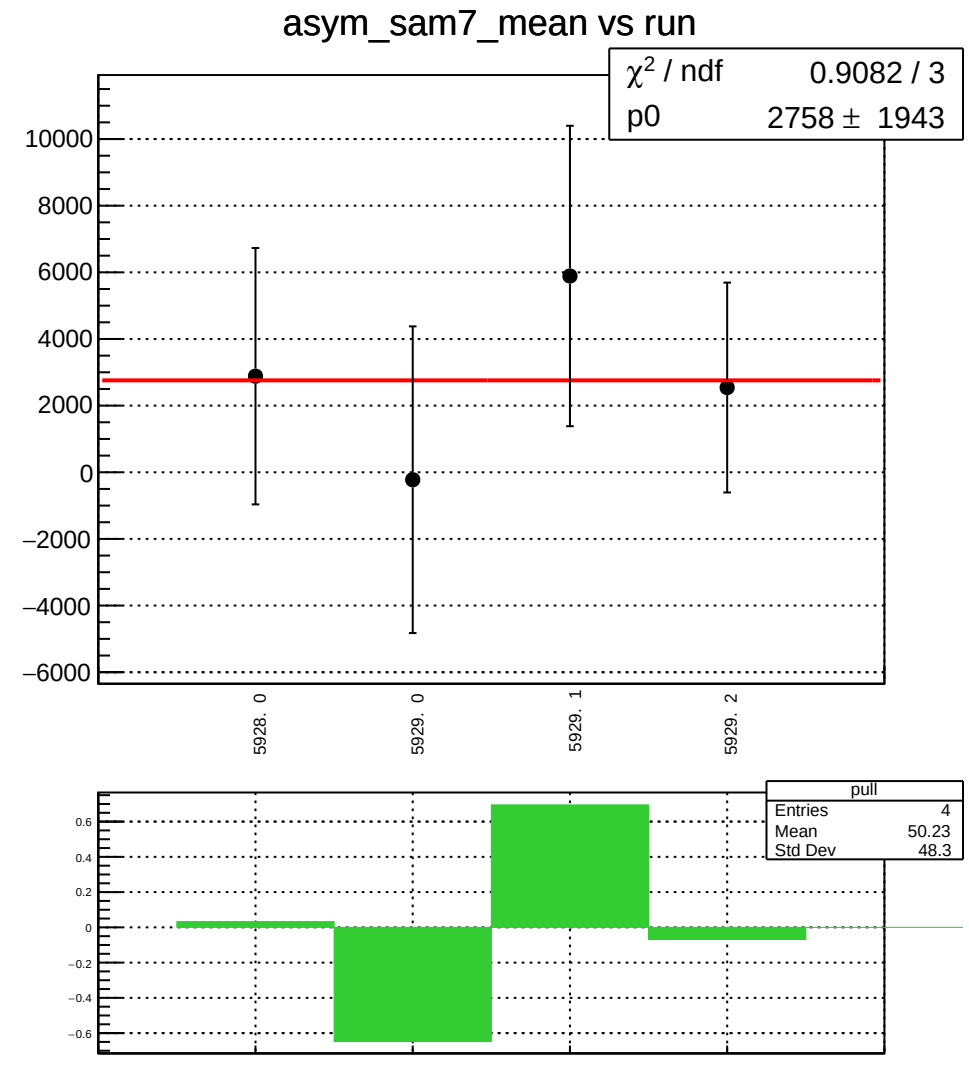

pull1D
Entries 4
Mean −0.02432
Std Dev 0.241
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

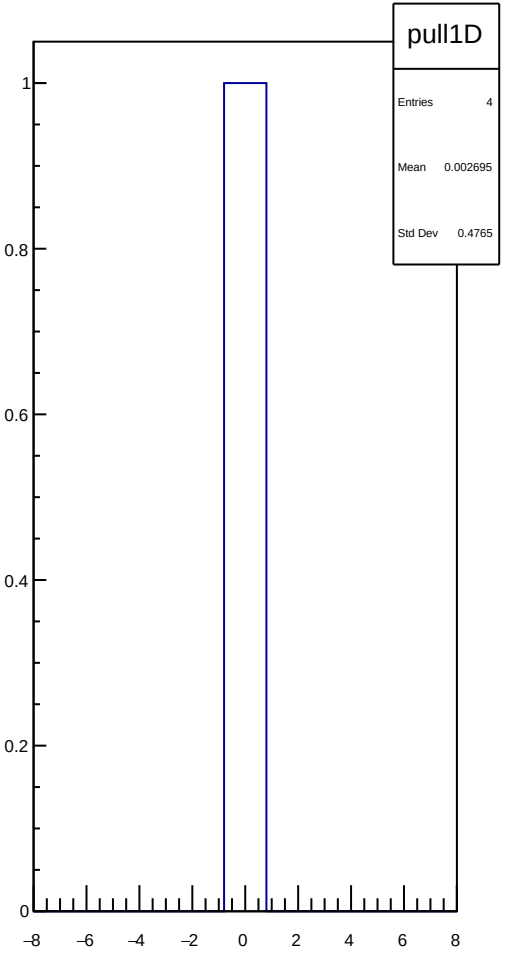

asym_sam5_rms vs run
χ² / ndf 588.7 / 3
p0 2177 ± 7.412
2600
2500
2400
2300
2200
2100
2000
5928. 0
5929. 0
5929. 1
5929. 2

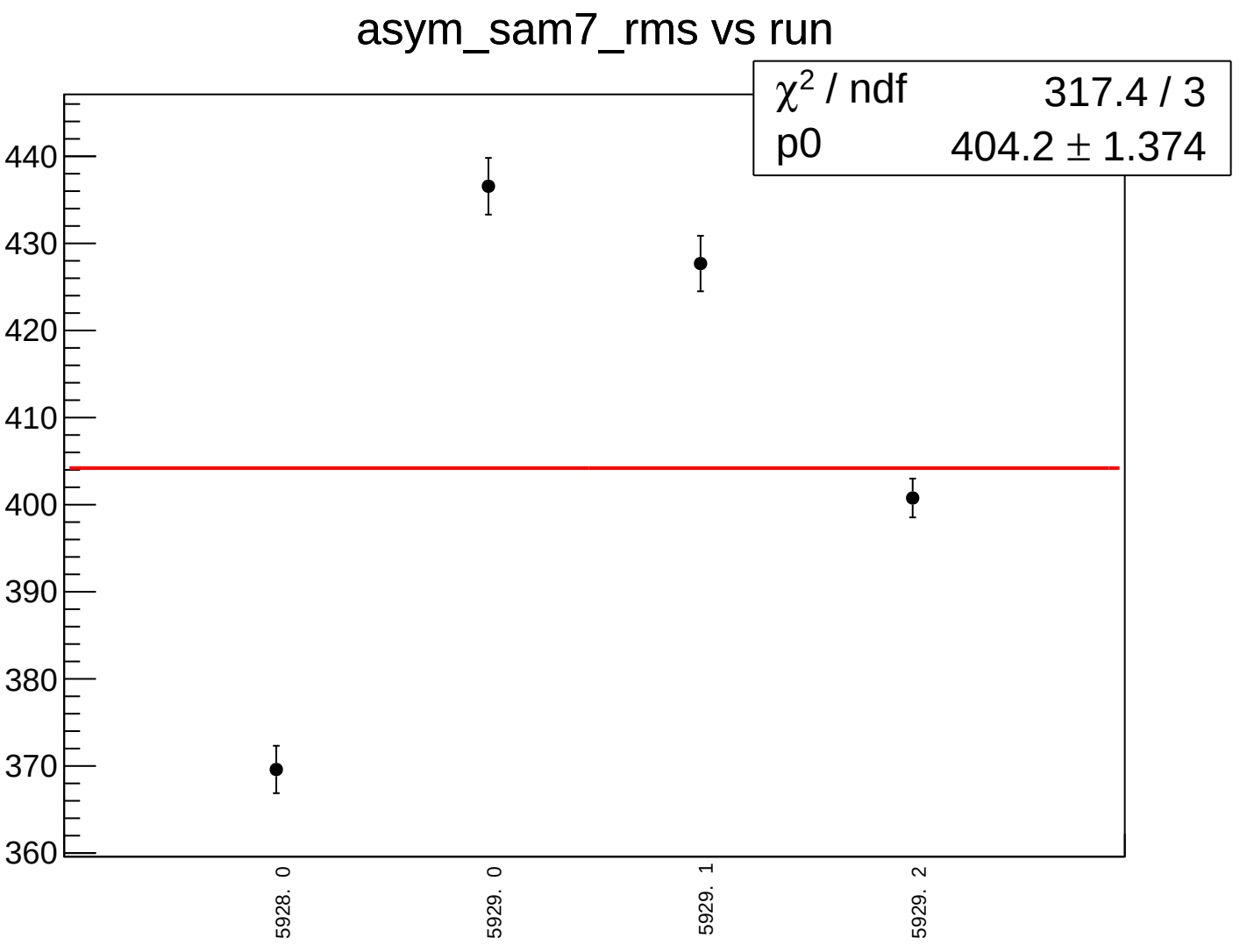

asym_sam6_mean vs run
χ² / ndf 0.6494 / 3
p0 −2272 ± 1.013e+04
30000
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.3101
Std Dev 2.484
0.2
0
−0.2
−0.4
−0.6

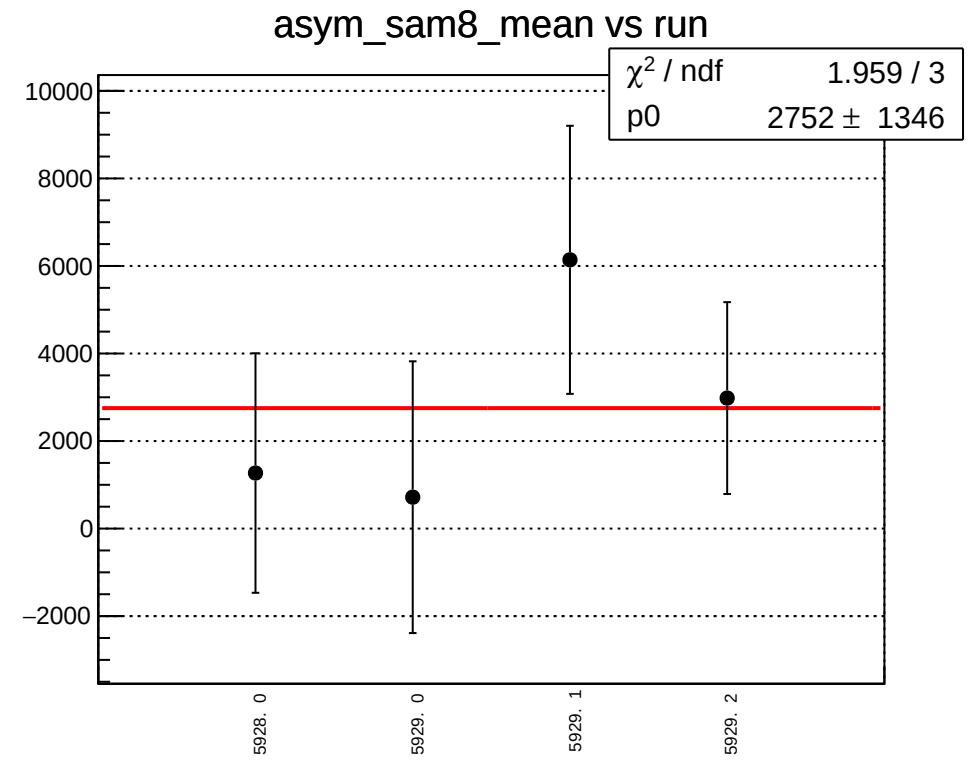

pull1D
Entries 4
Mean −0.03218
Std Dev 0.4016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

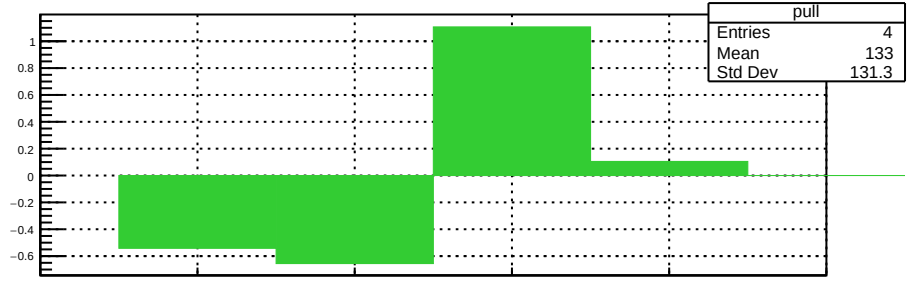

asym_sam6_rms vs run
χ² / ndf 177.4 / 3
p0 2110 ± 7.166
2350
2300
2250
2200
2150
2100
2050
5928. 0
5929. 0
5929. 1
5929. 2

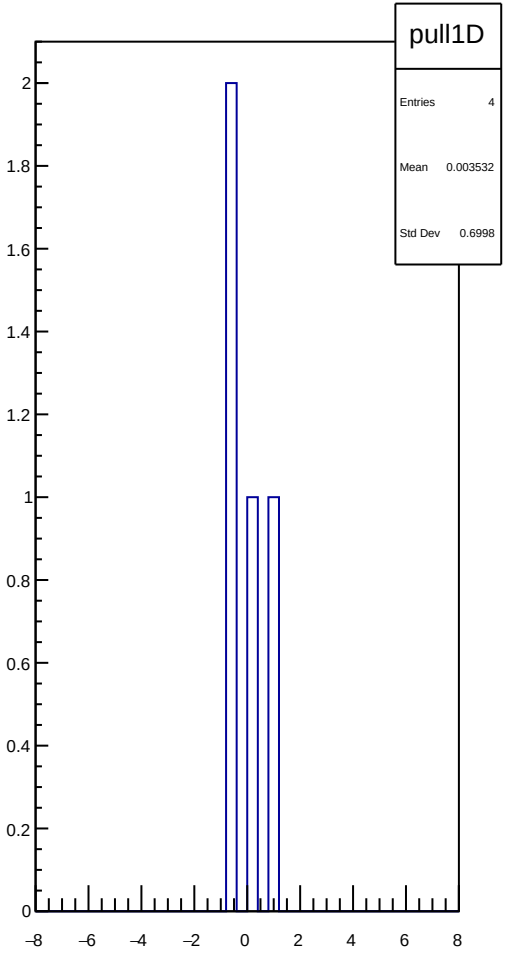

asym_sam7_mean vs run
χ² / ndf 0.9082 / 3
p0 2758 ± 1943
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 50.23
Std Dev 48.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

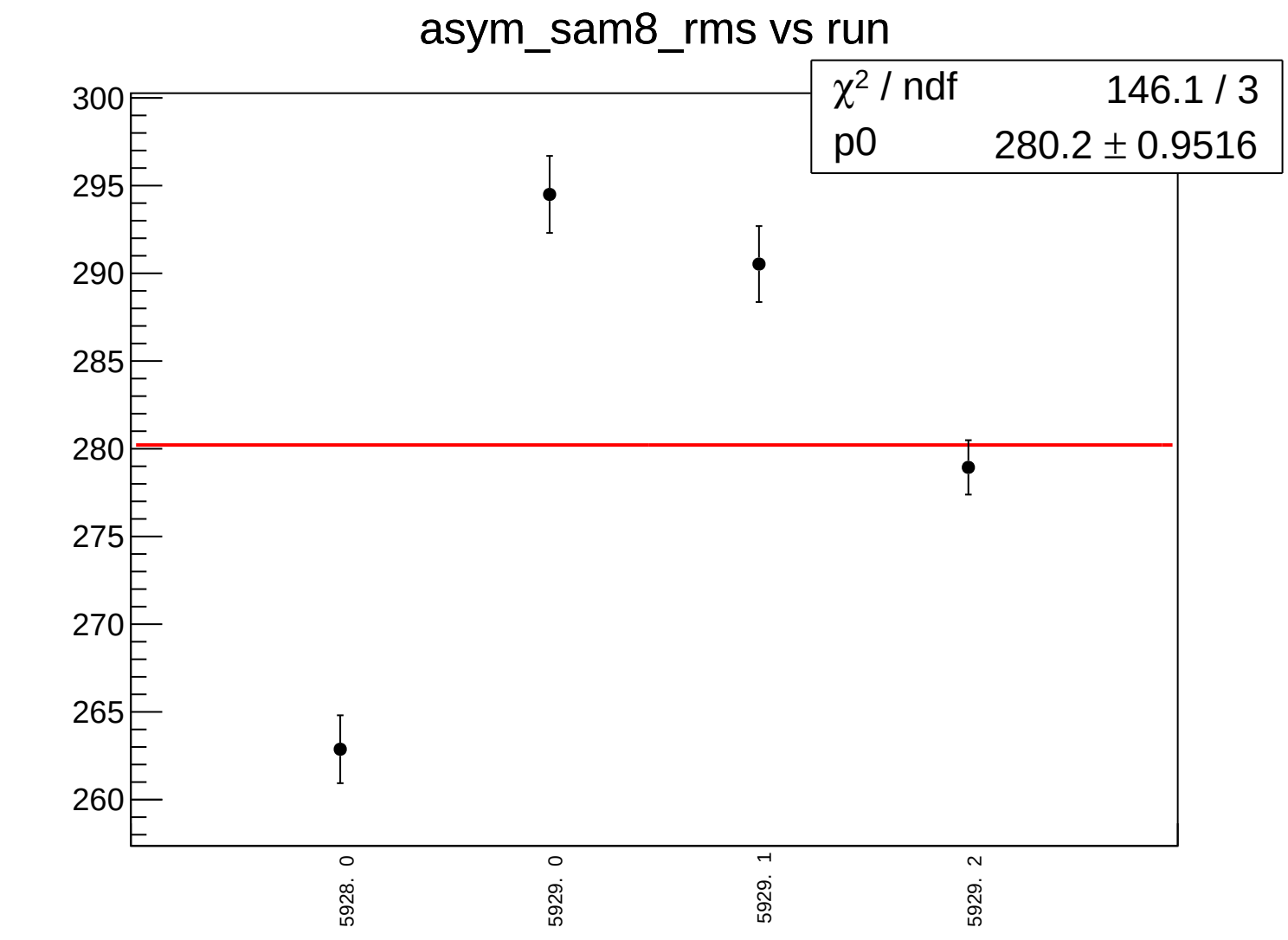

pull1D
Entries 4
Mean 0.002695
Std Dev 0.4765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

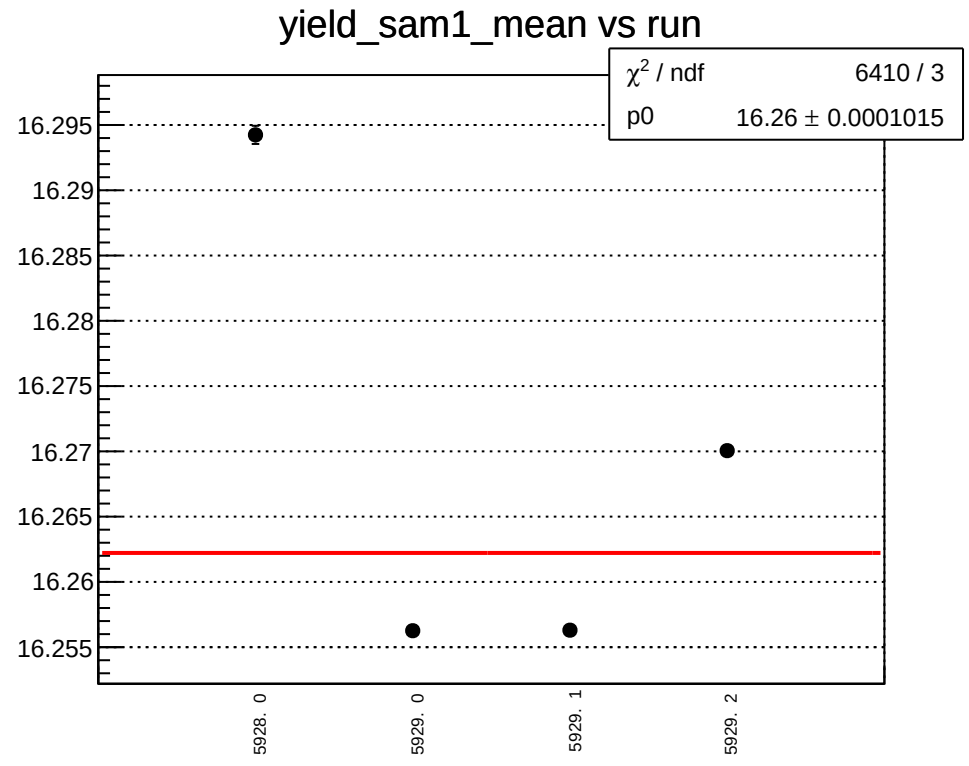

asym_sam7_rms vs run
χ² / ndf 317.4 / 3
p0 404.2 ± 1.374
440
430
420
410
400
390
380
370
360
5928. 0
5929. 0
5929. 1
5929. 2

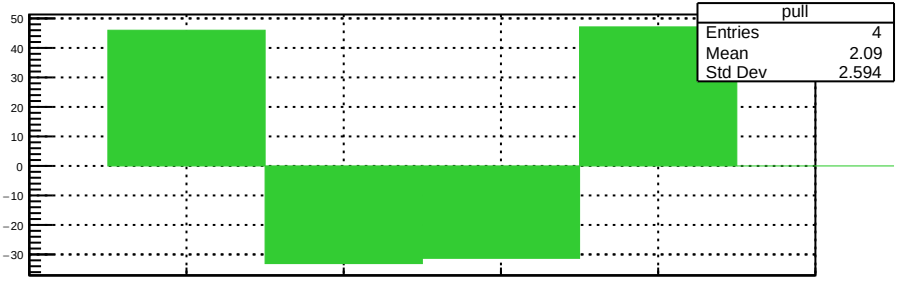

asym_sam8_mean vs run
χ² / ndf 1.959 / 3
p0 2752 ± 1346
10000
8000
6000
4000
2000
0
−2000
5928. 0
5929. 0
5929. 1
5929. 2

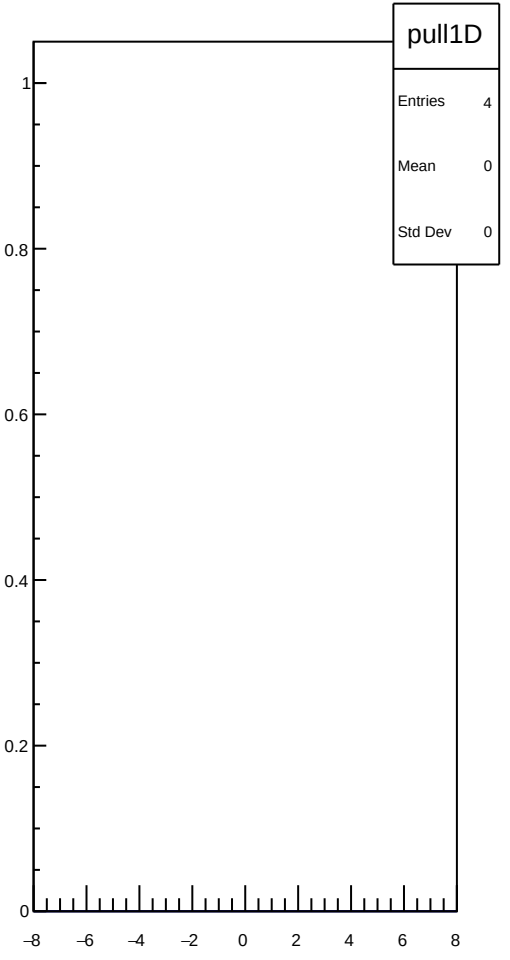

pull
Entries 4
Mean 133
Std Dev 131.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

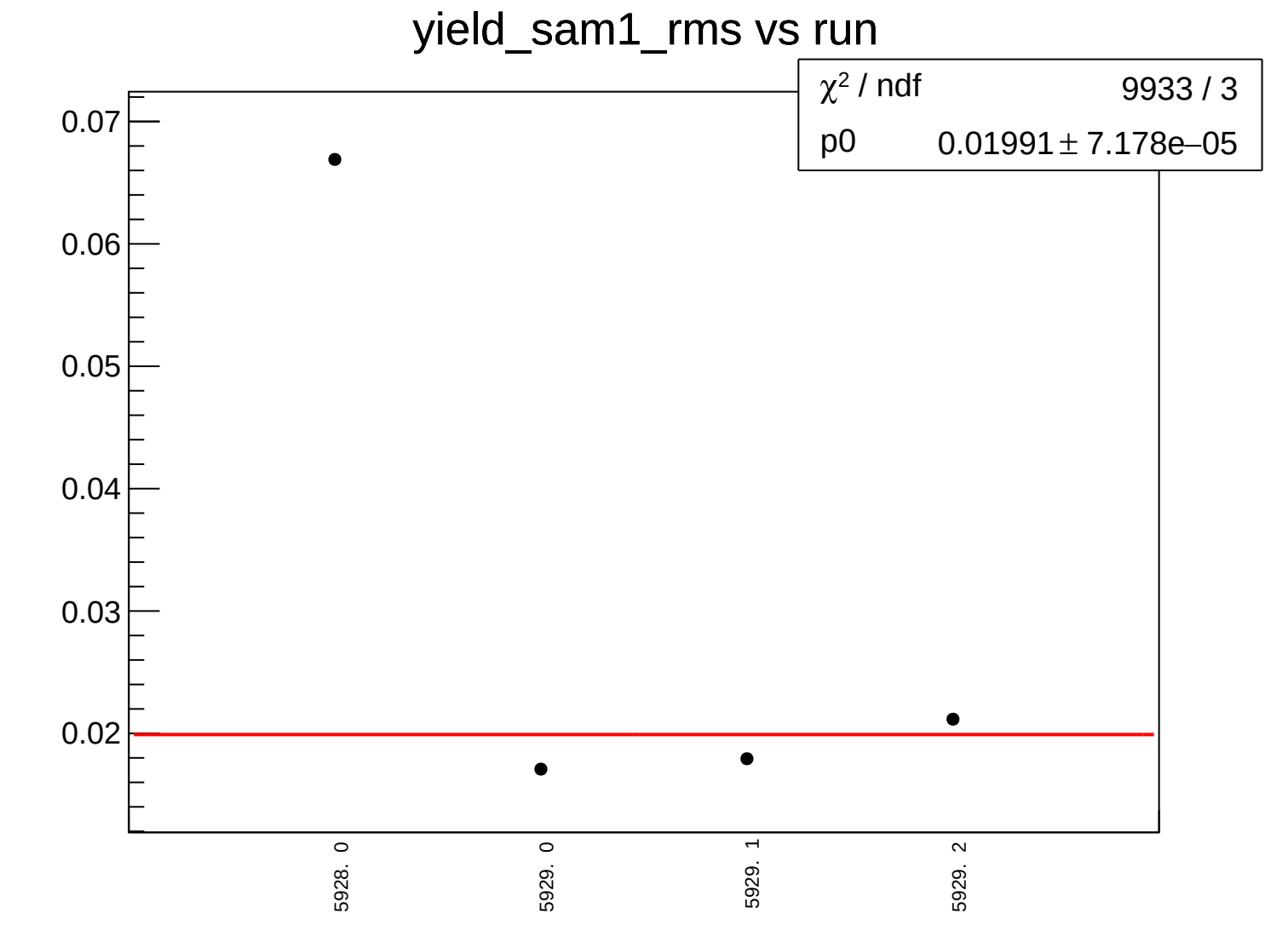

pull1D
Entries 4
Mean 0.003532
Std Dev 0.6998
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

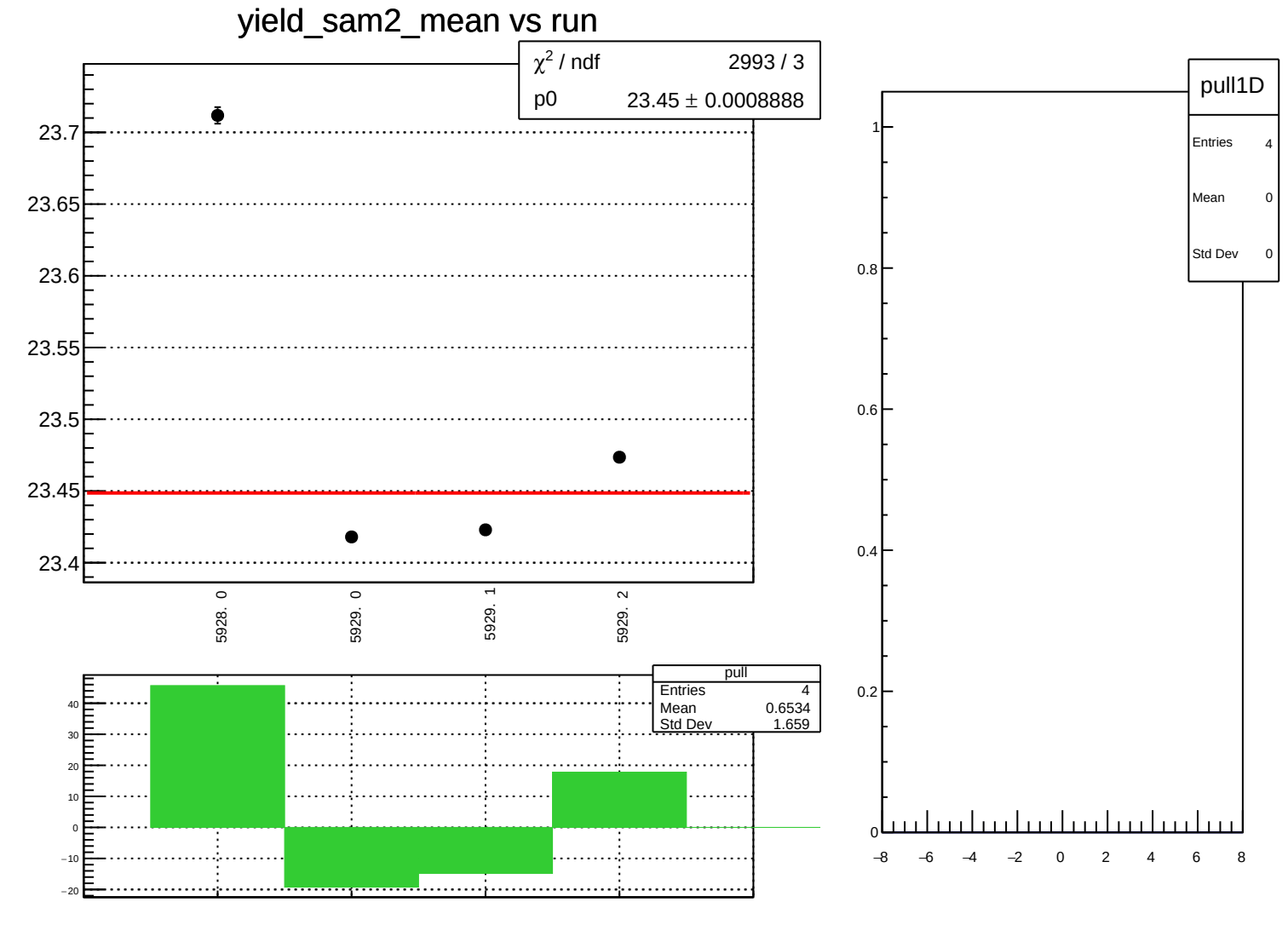

asym_sam8_rms vs run
χ^2 / ndf 146.1 / 3
p0 280.2 ± 0.9516
300
295
290
285
280
275
270
265
260
5928. 0
5929. 0
5929. 1
5929. 2

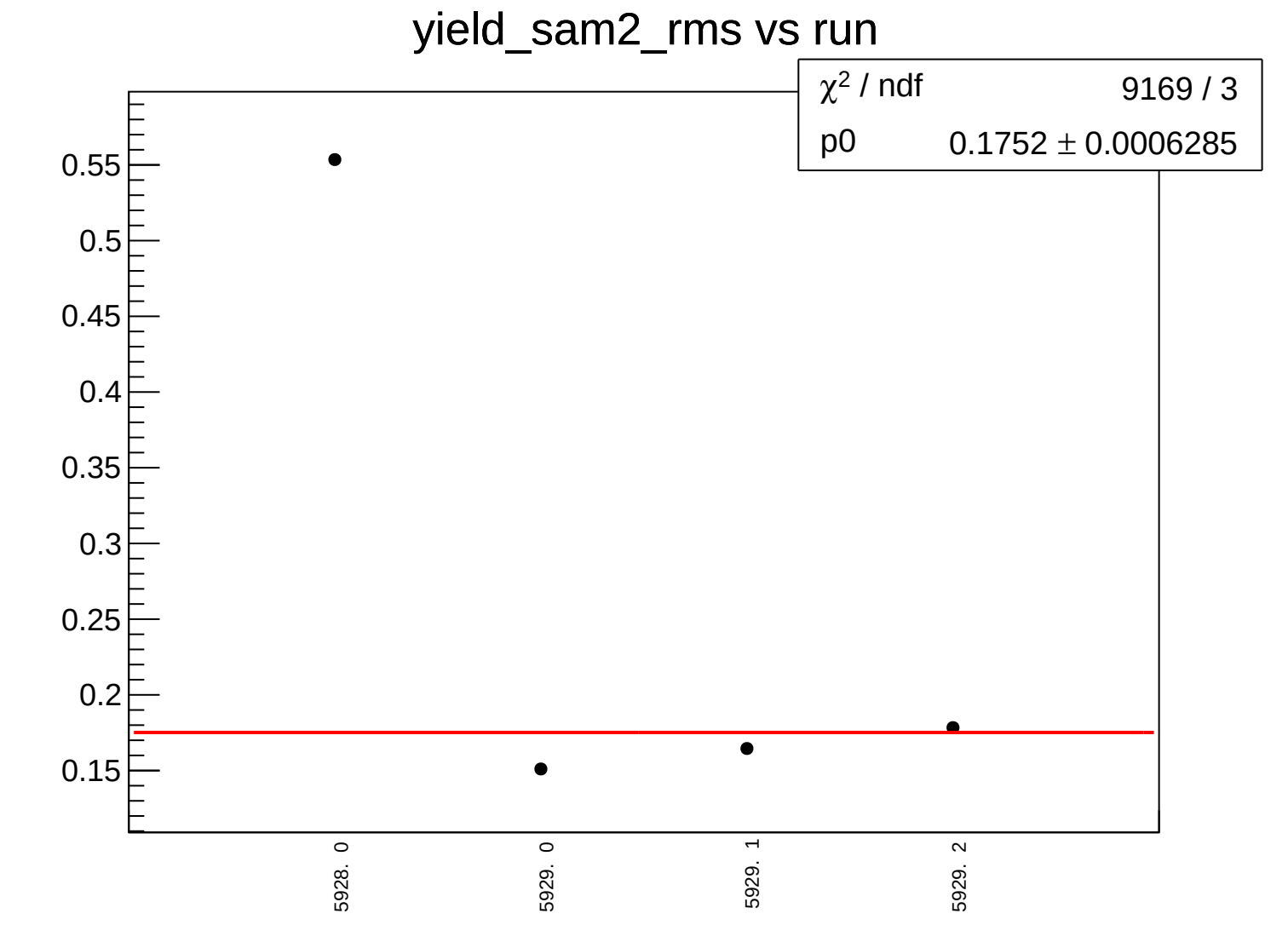

yield_sam1_mean vs run
χ² / ndf 6410 / 3
p0 16.26 ± 0.0001015
16.295
16.29
16.285
16.28
16.275
16.27
16.265
16.26
16.255
5928. 0
5929. 0
5929. 1
5929. 2

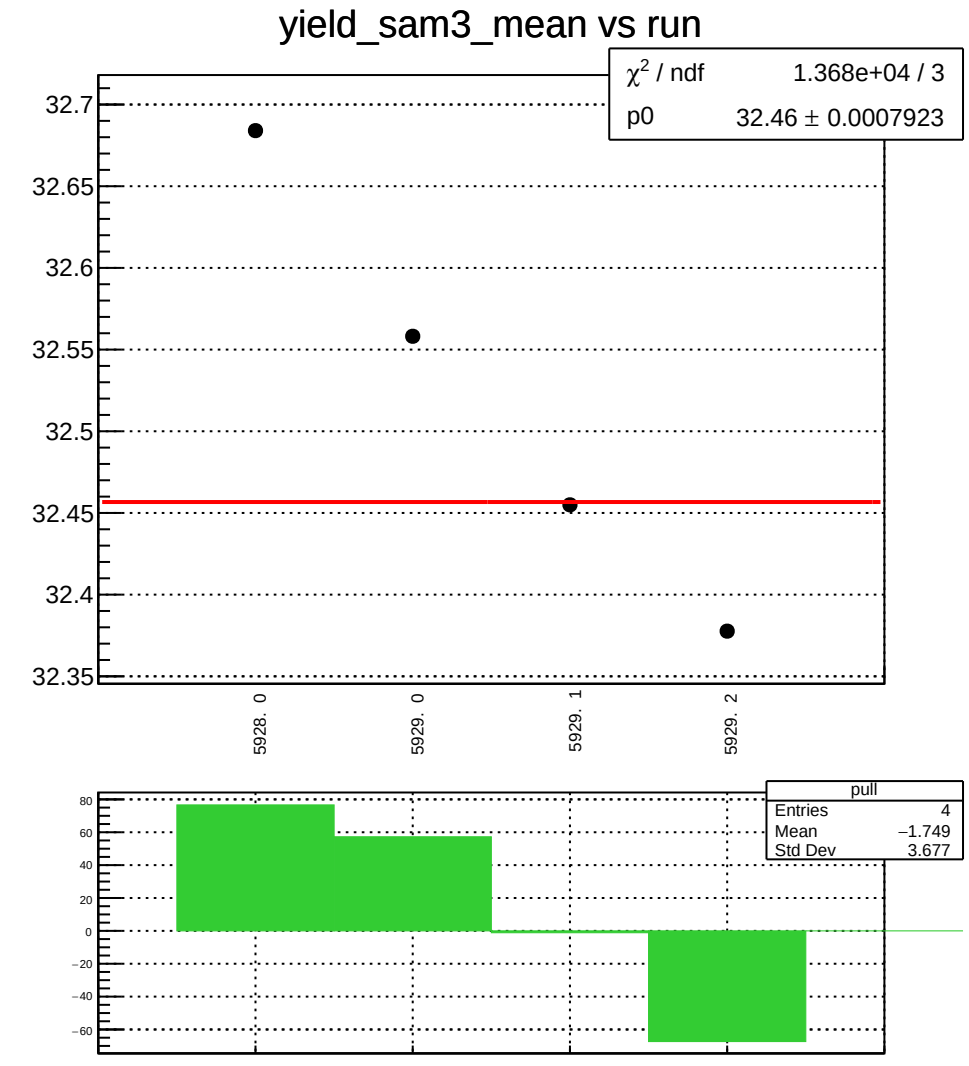

pull
Entries 4
Mean 2.09
Std Dev 2.594
50
40
30
20
10
0
−10
−20
−30

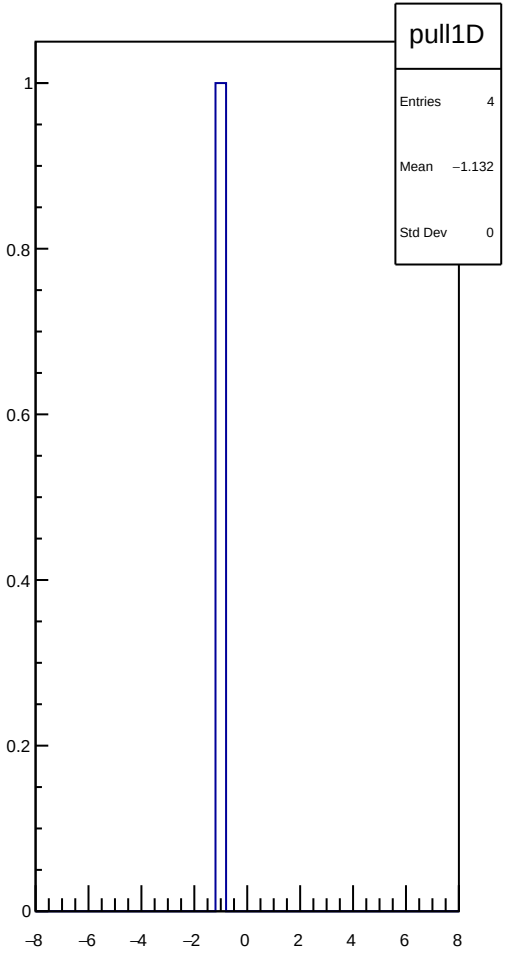

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

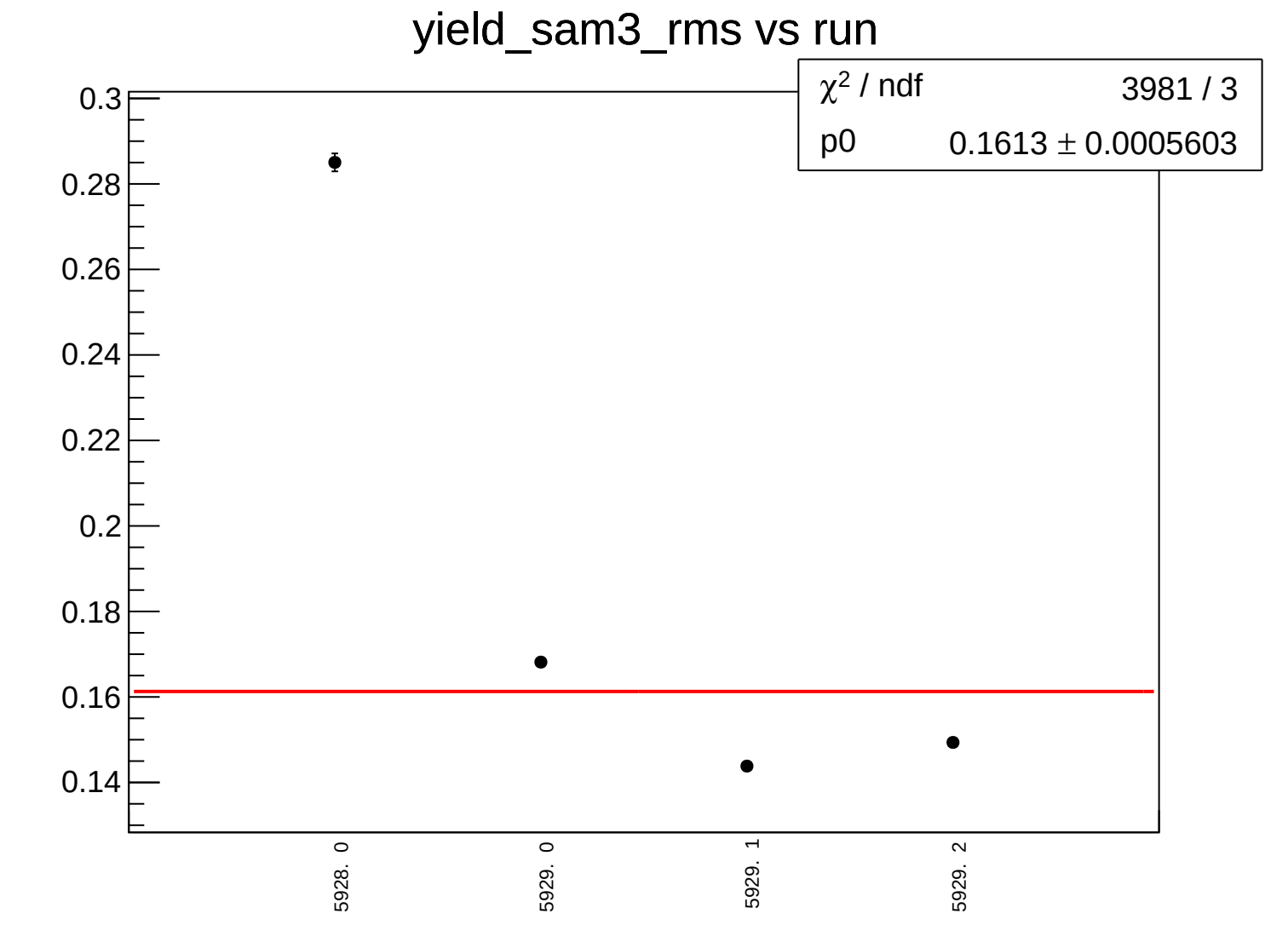

yield_sam1_rms vs run
χ² / ndf 9933 / 3
p0 0.01991 ± 7.178e−05
0.07
0.06
0.05
0.04
0.03
0.02
5928. 0
5929. 0
5929. 1
5929. 2

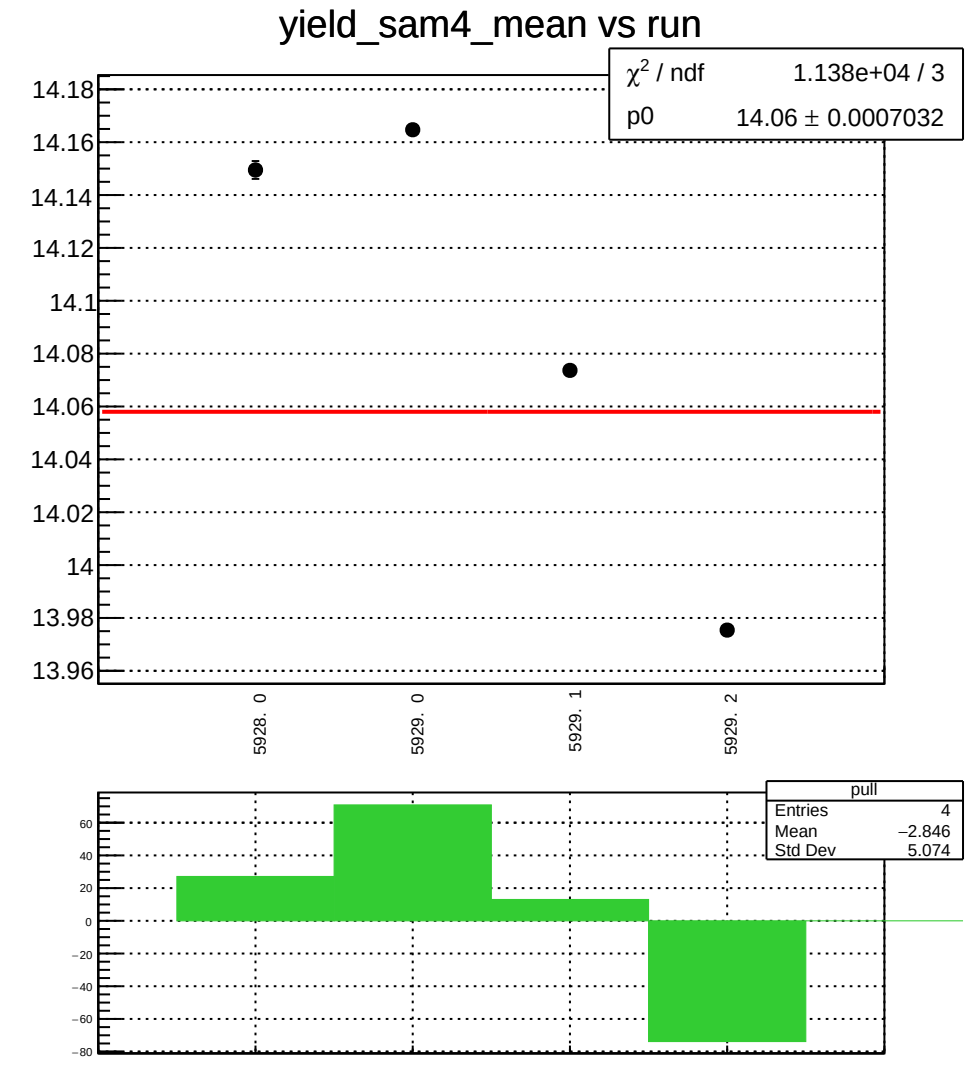

yield_sam2_mean vs run
χ² / ndf 2993 / 3
p0 23.45 ± 0.0008888
23.7
23.65
23.6
23.55
23.5
23.45
23.4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.6534
Std Dev 1.659
40
30
20
10
0
−10
−20
pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

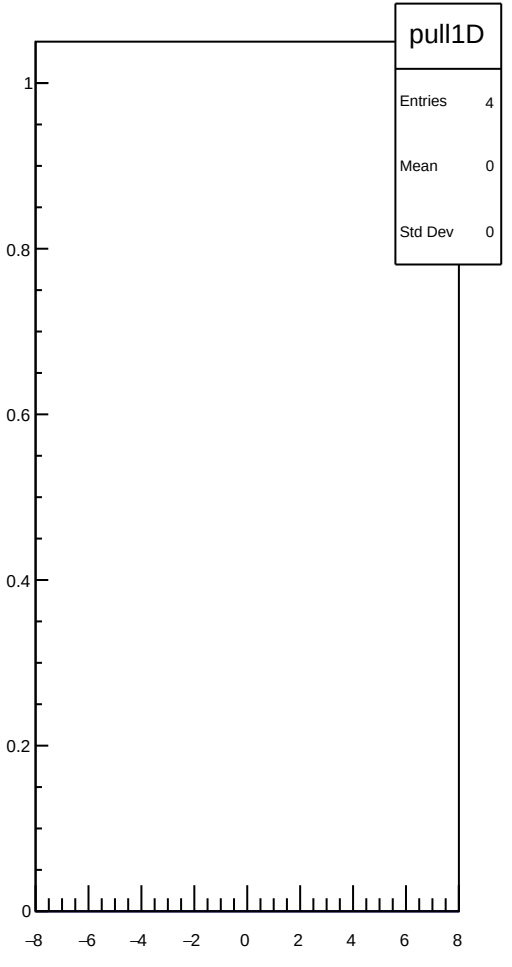

yield_sam2_rms vs run
χ² / ndf 9169 / 3
p0 0.1752 ± 0.0006285
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
5928. 0
5929. 0
5929. 1
5929. 2

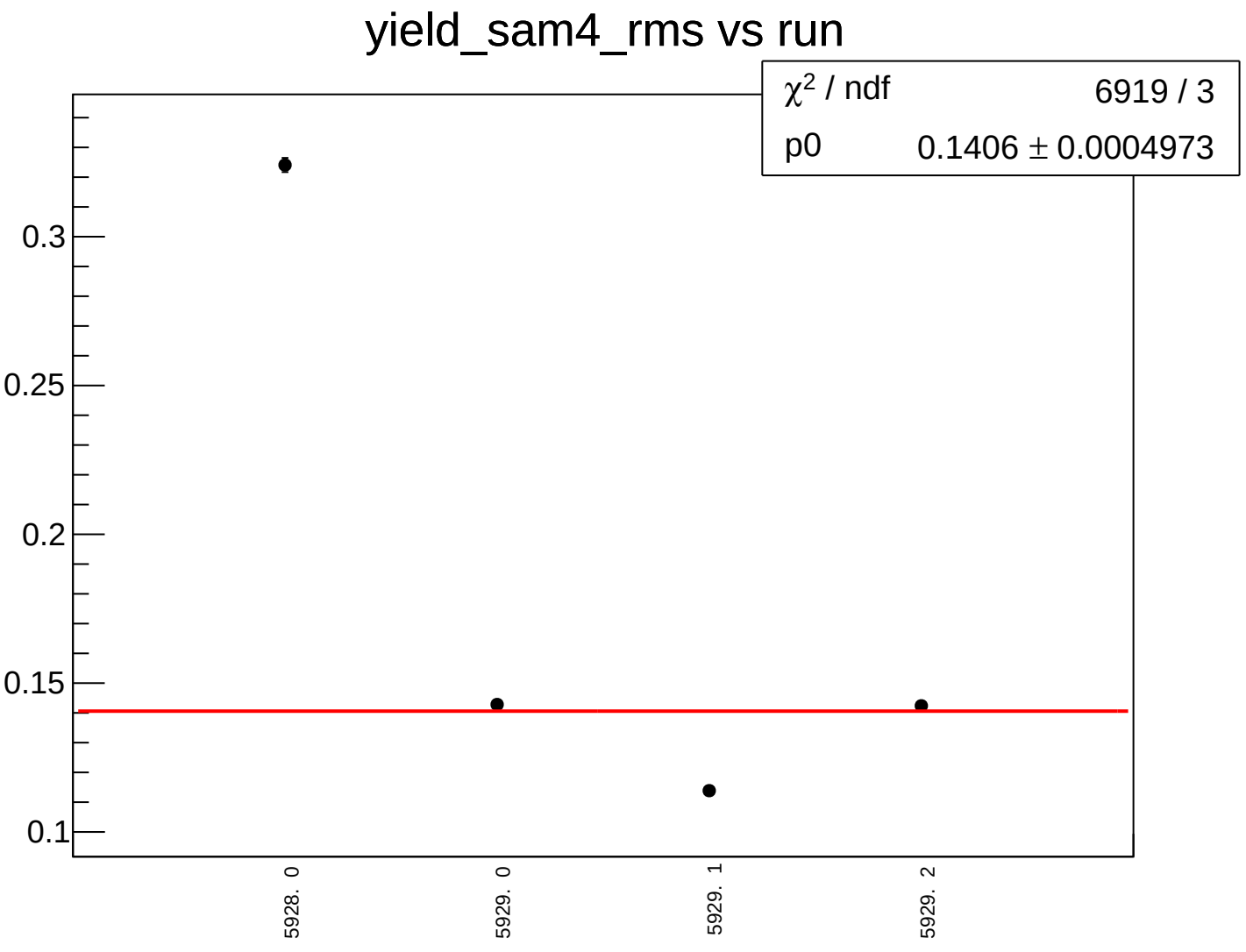

yield_sam3_mean vs run
χ² / ndf 1.368e+04 / 3
p0 32.46 ± 0.0007923
32.7
32.65
32.6
32.55
32.5
32.45
32.4
32.35
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.749
Std Dev 3.677
80
60
40
20
0
−20
−40
−60

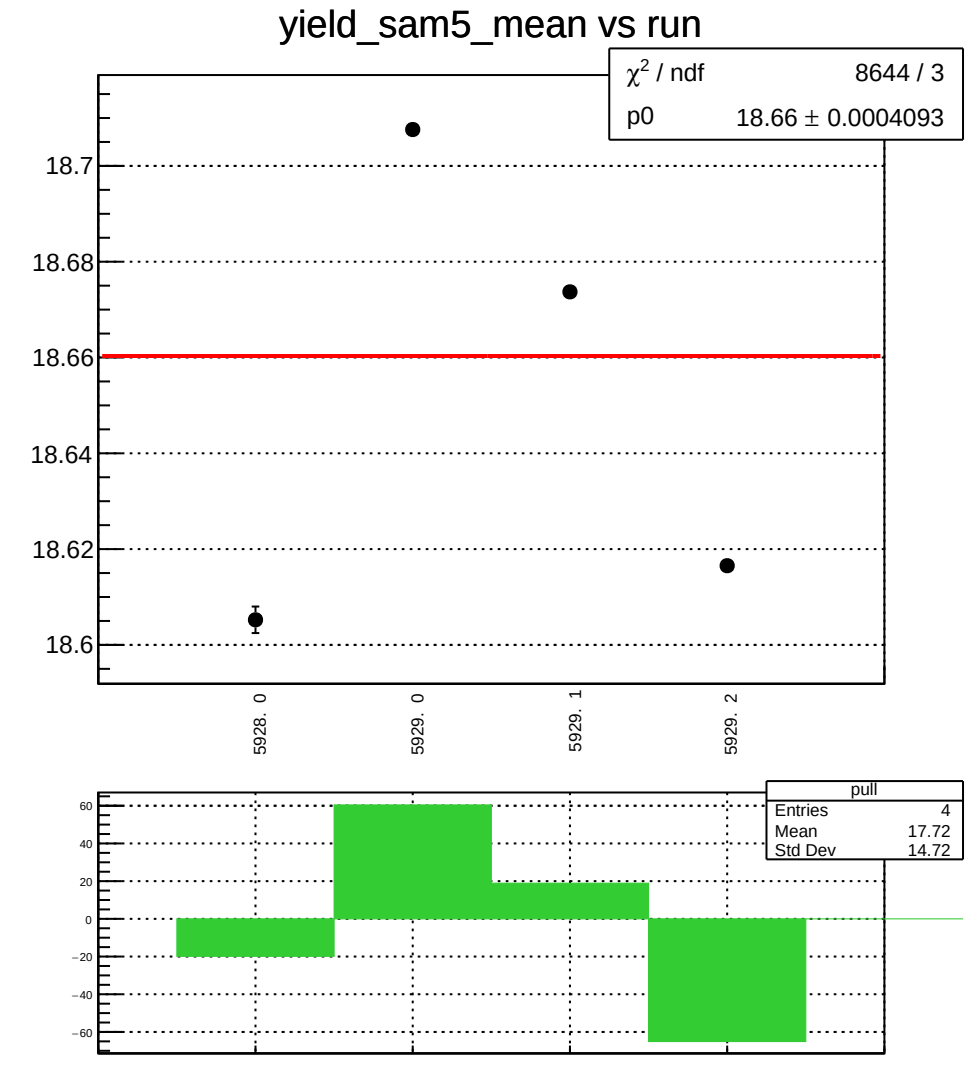

pull1D
Entries 4
Mean −1.132
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

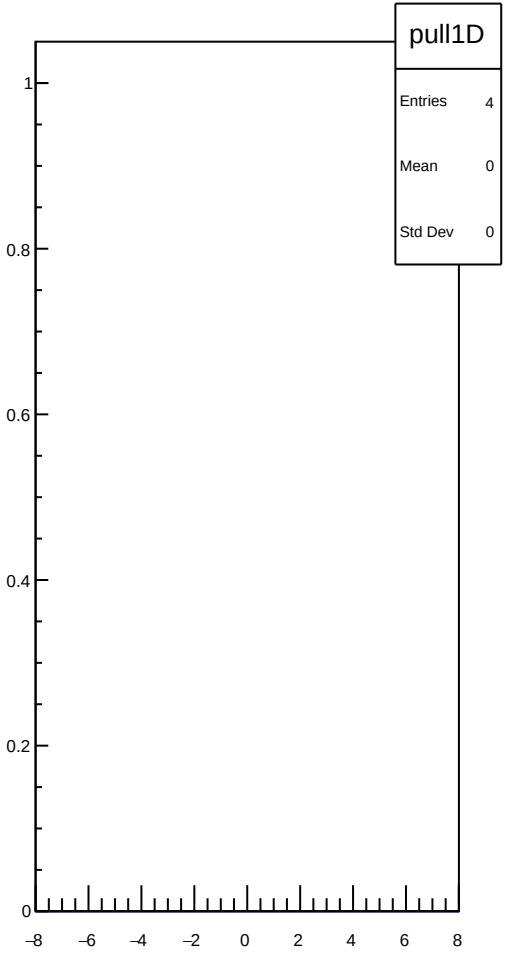

yield_sam3_rms vs run
χ² / ndf 3981 / 3
p0 0.1613 ± 0.0005603
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
5928. 0
5929. 0
5929. 1
5929. 2

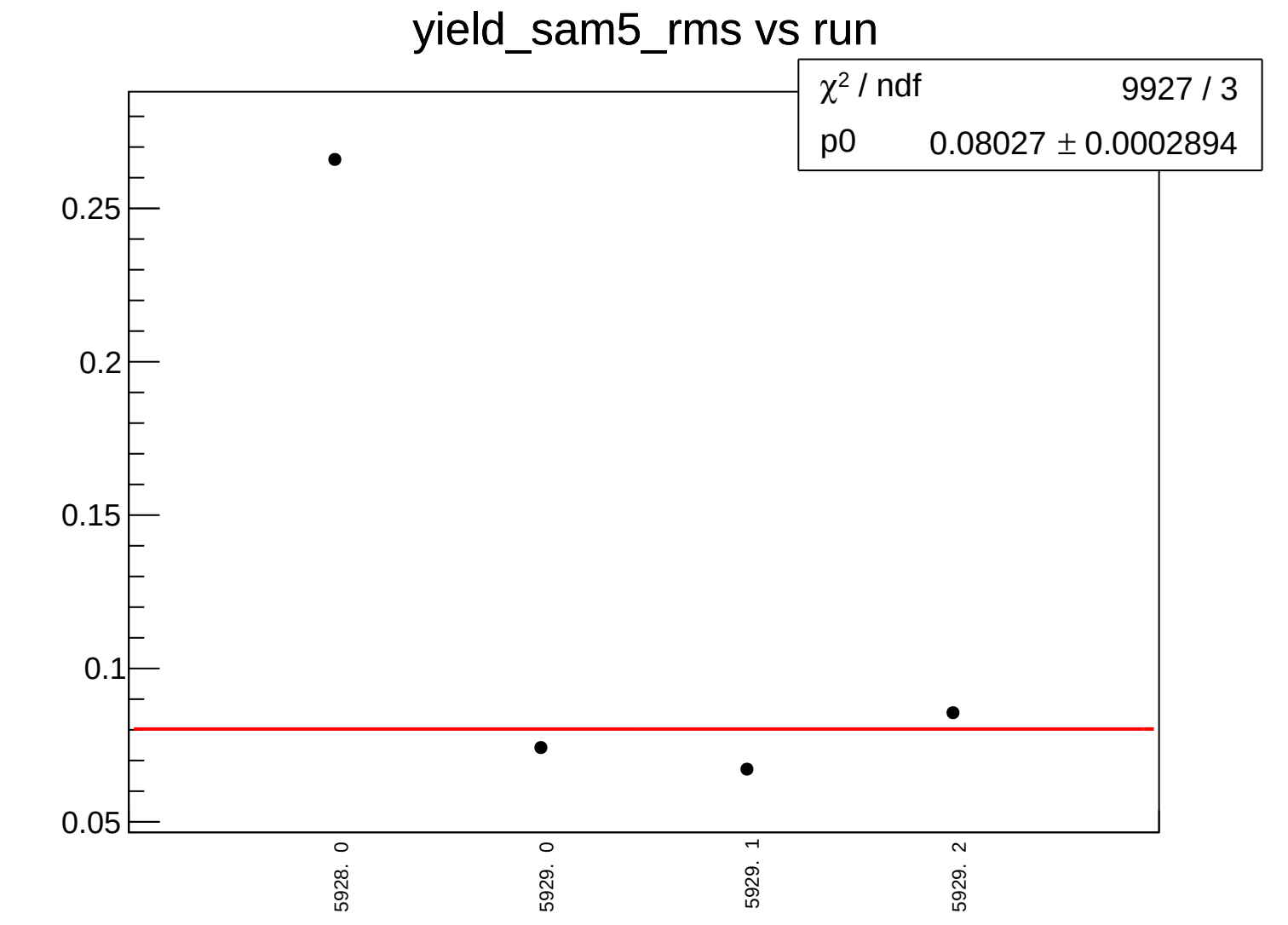

yield_sam4_mean vs run
χ² / ndf 1.138e+04 / 3
p0 14.06 ± 0.0007032
14.18
14.16
14.14
14.12
14.1
14.08
14.06
14.04
14.02
14
13.98
13.96
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.846
Std Dev 5.074
60
40
20
0
−20
−40
−60
−80

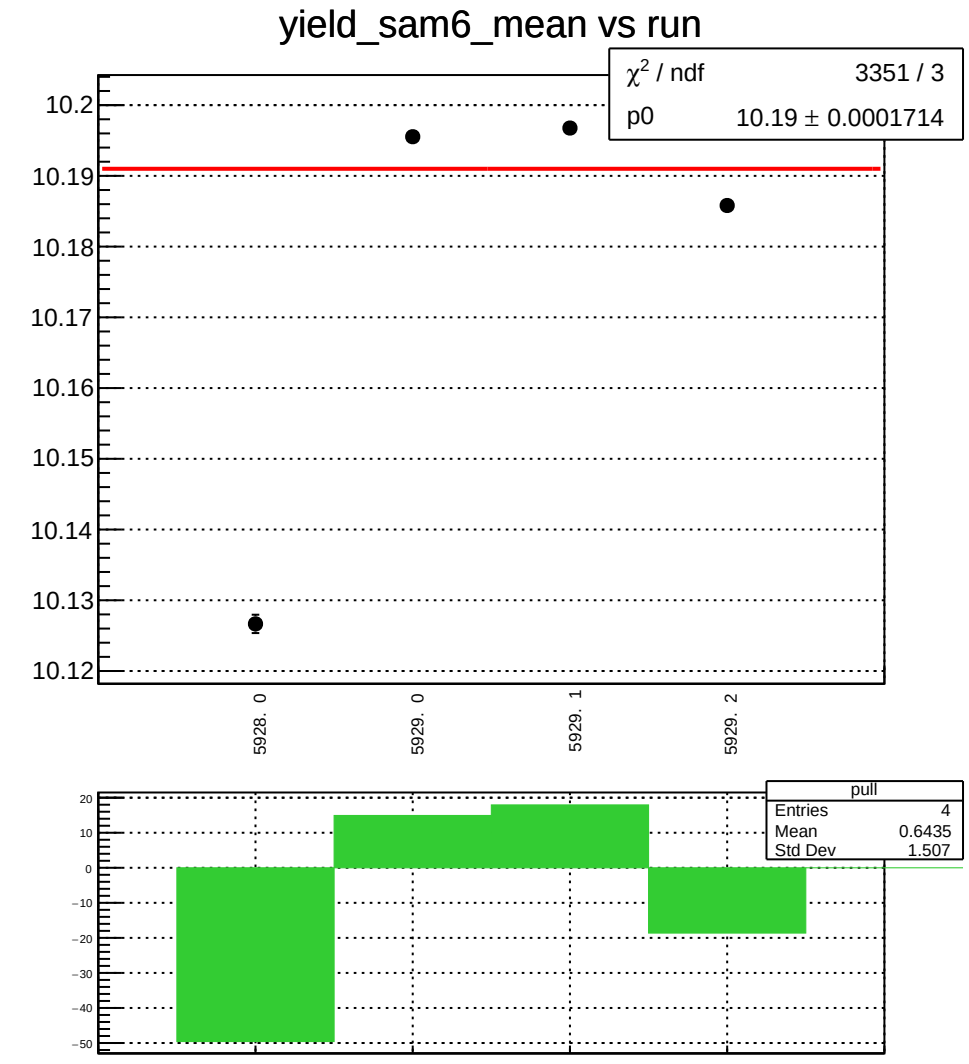

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

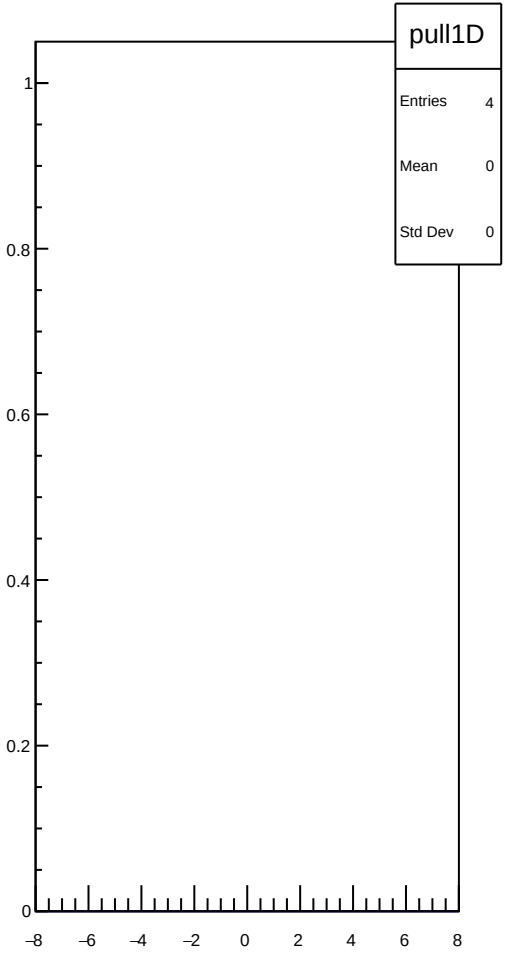

yield_sam4_rms vs run
χ² / ndf 6919 / 3
p0 0.1406 ± 0.0004973
0.3
0.25
0.2
0.15
0.1
5928. 0
5929. 0
5929. 1
5929. 2

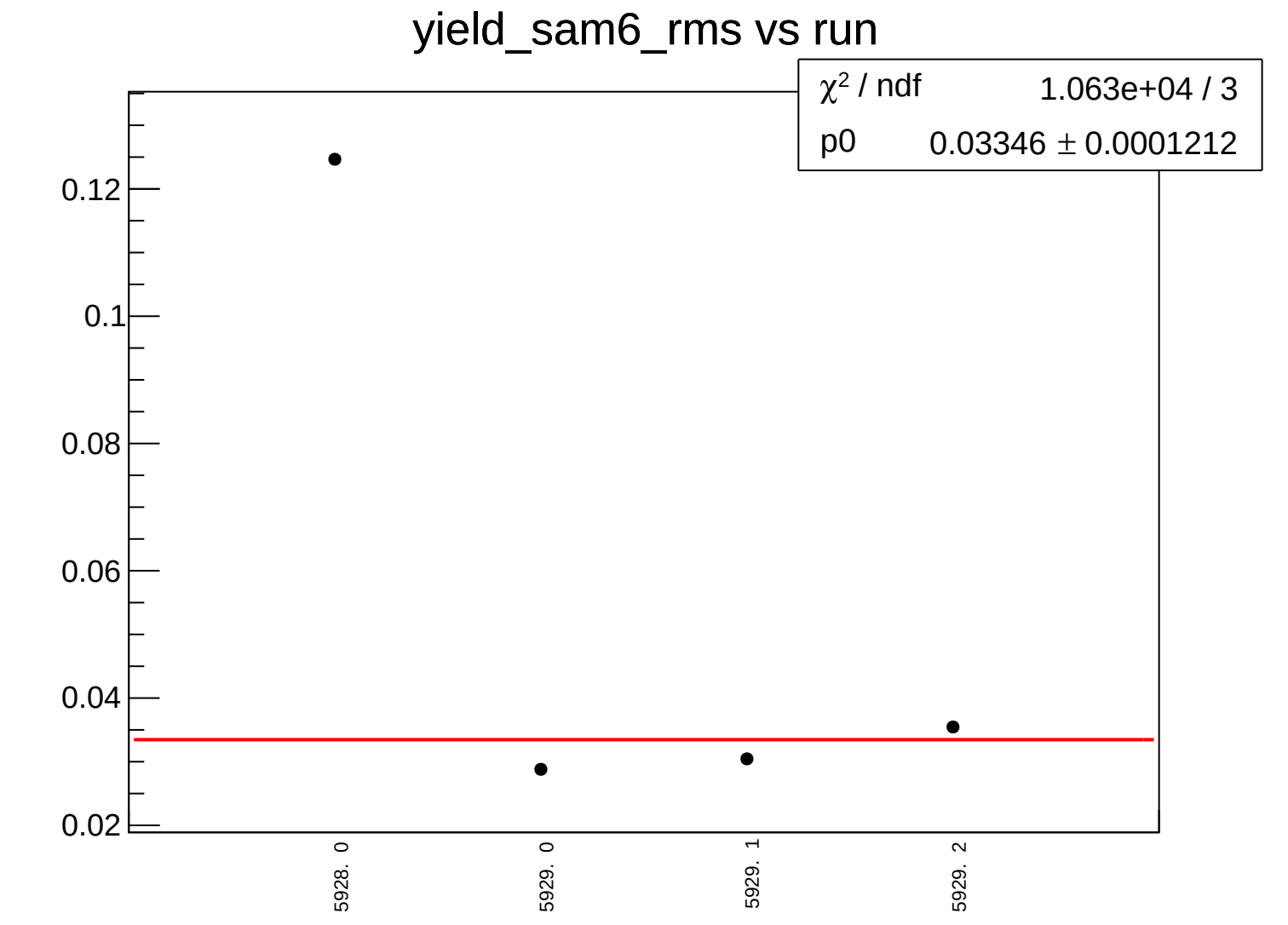

yield_sam5_mean vs run
χ² / ndf 8644 / 3
p0 18.66 ± 0.0004093
18.7
18.68
18.66
18.64
18.62
18.6
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 17.72
Std Dev 14.72
60
40
20
0
−20
−40
−60

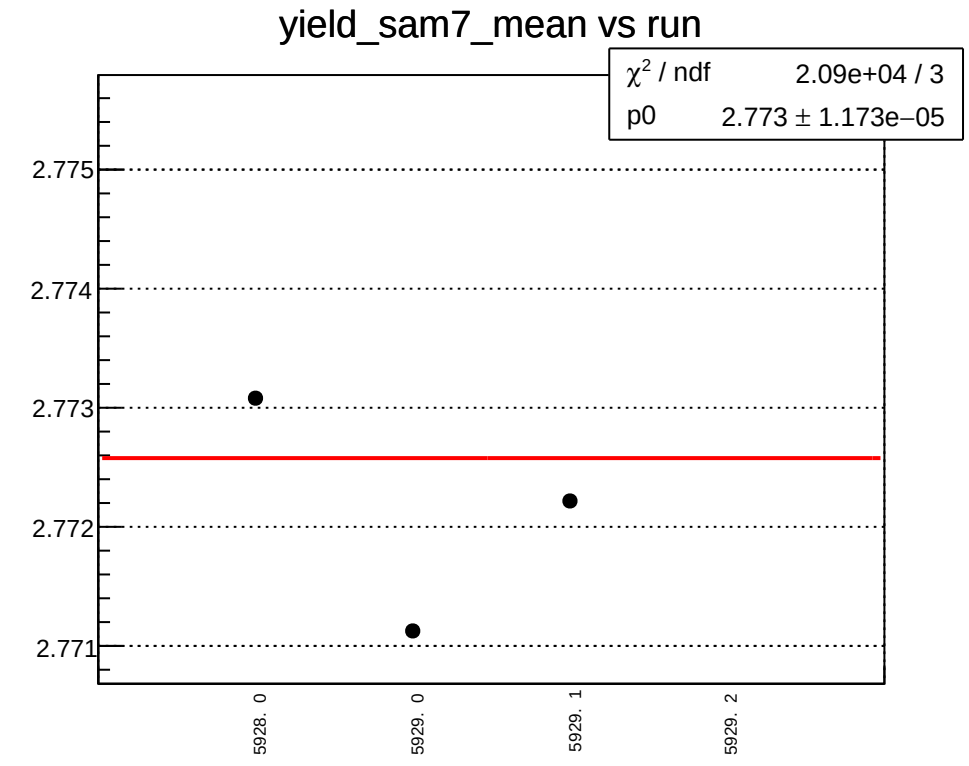

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

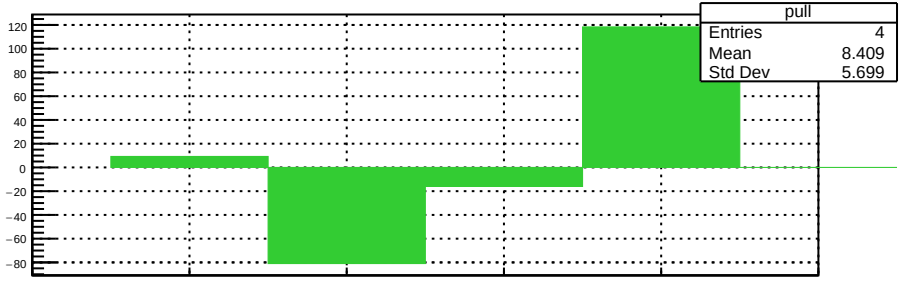

yield_sam5_rms vs run
χ² / ndf 9927 / 3
p0 0.08027 ± 0.0002894
0.25
0.2
0.15
0.1
0.05
5928. 0
5929. 0
5929. 1
5929. 2

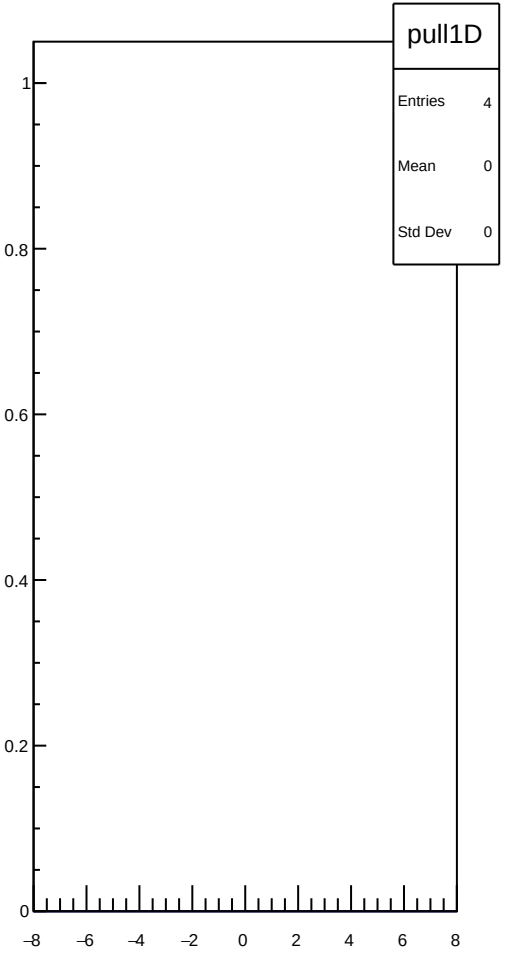

yield_sam6_mean vs run
χ² / ndf 3351 / 3
p0 10.19 ± 0.0001714
10.2
10.19
10.18
10.17
10.16
10.15
10.14
10.13
10.12
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.6435
Std Dev 1.507
20
10
0
−10
−20
−30
−40
−50

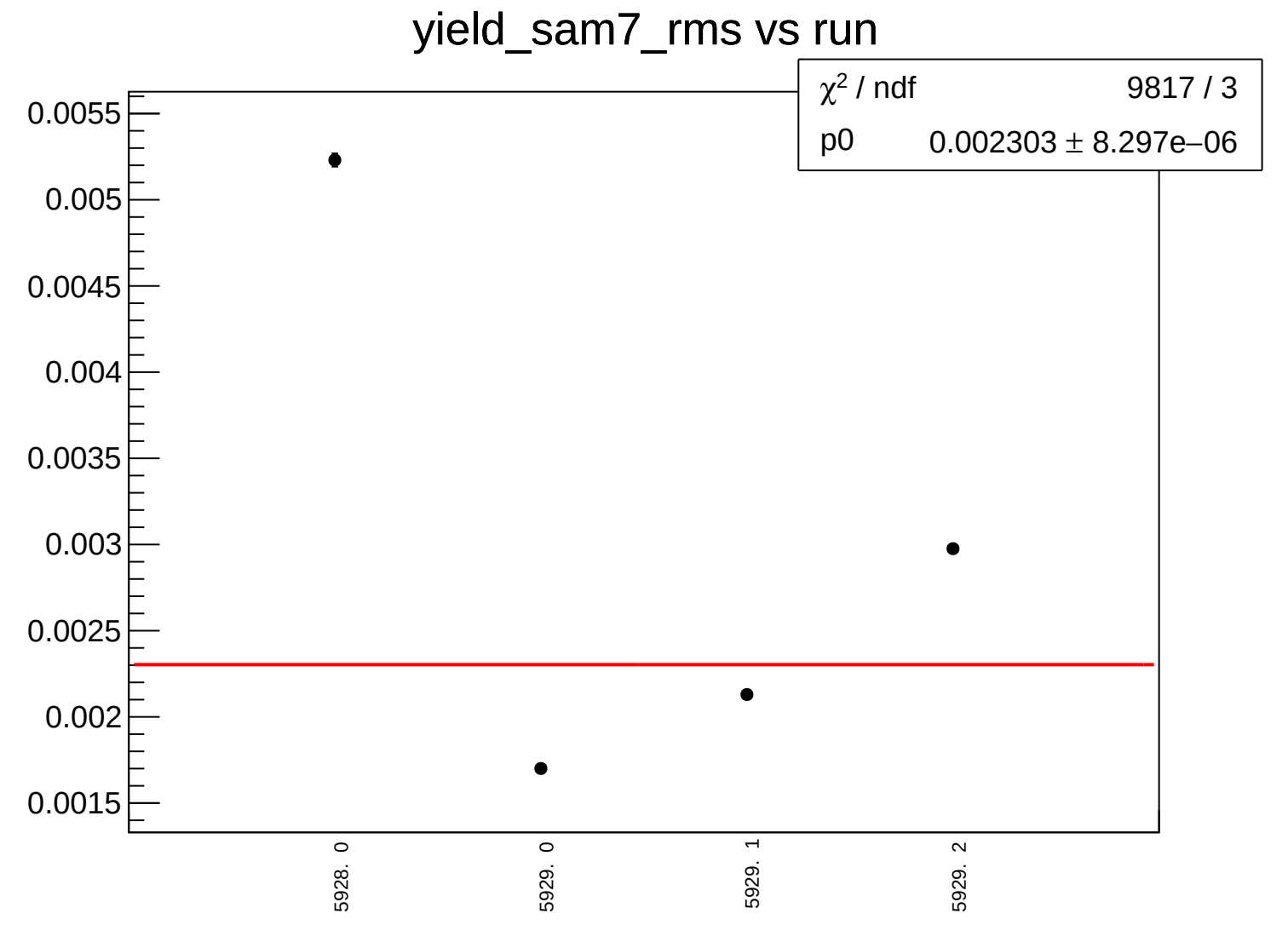

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

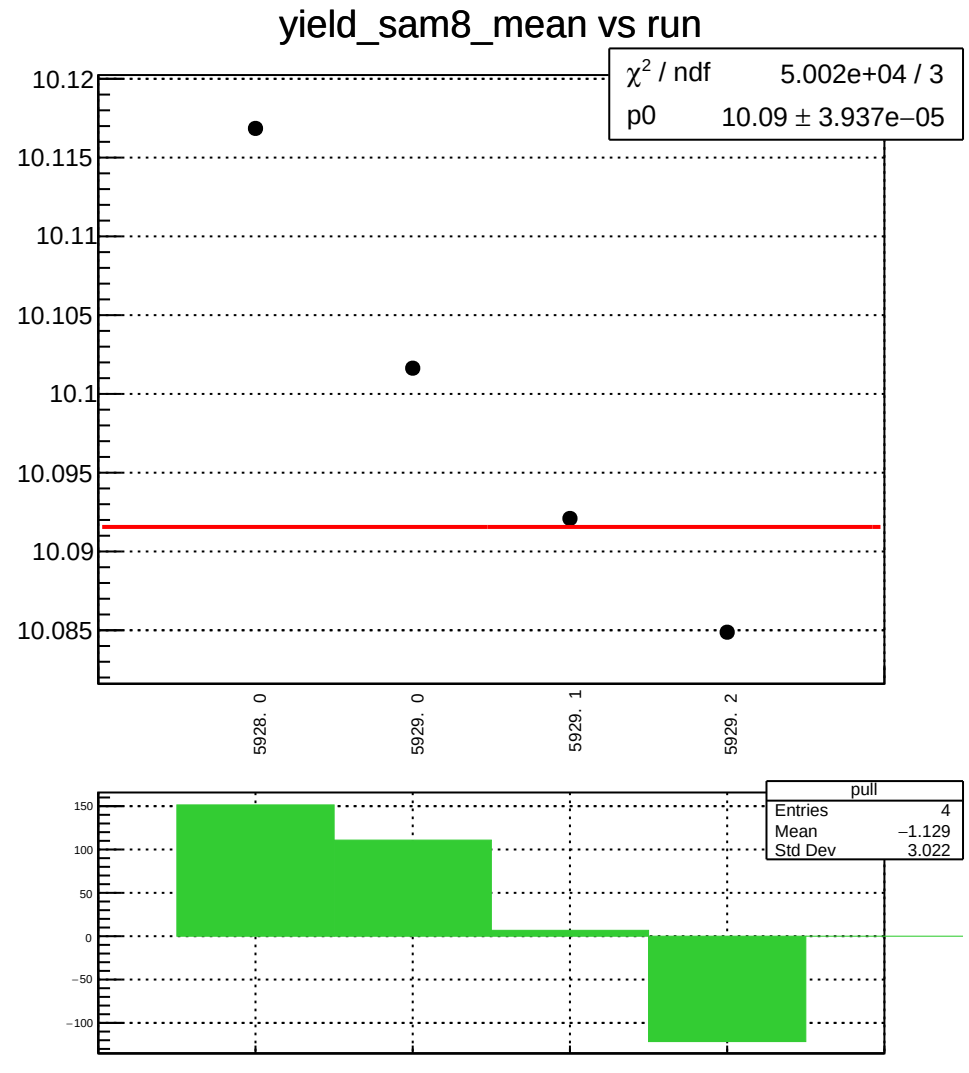

yield_sam6_rms vs run
χ² / ndf 1.063e+04 / 3
p0 0.03346 ± 0.0001212
0.12
0.1
0.08
0.06
0.04
0.02
5928. 0
5929. 0
5929. 1
5929. 2

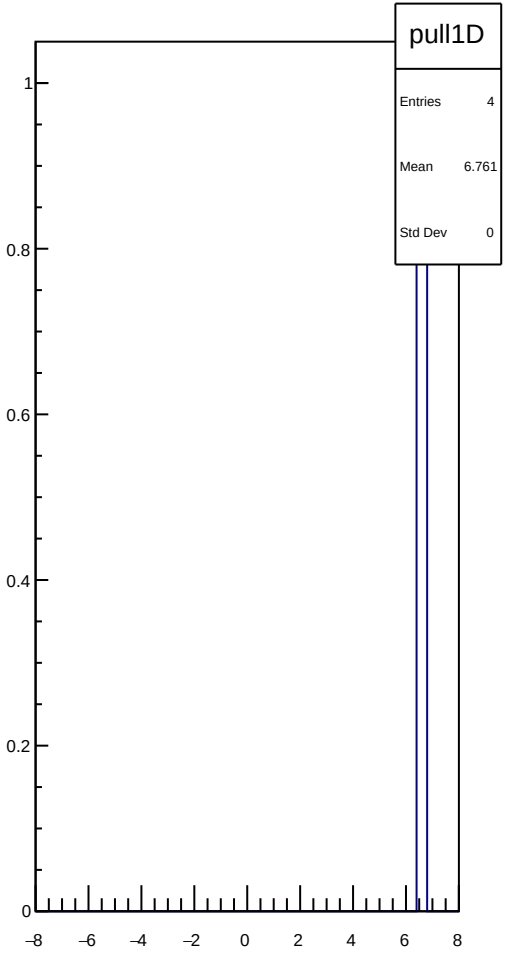

yield_sam7_mean vs run
χ² / ndf 2.09e+04 / 3
p0 2.773 ± 1.173e−05
2.775
2.774
2.773
2.772
2.771
5928. 0
5929. 0
5929. 1
5929. 2

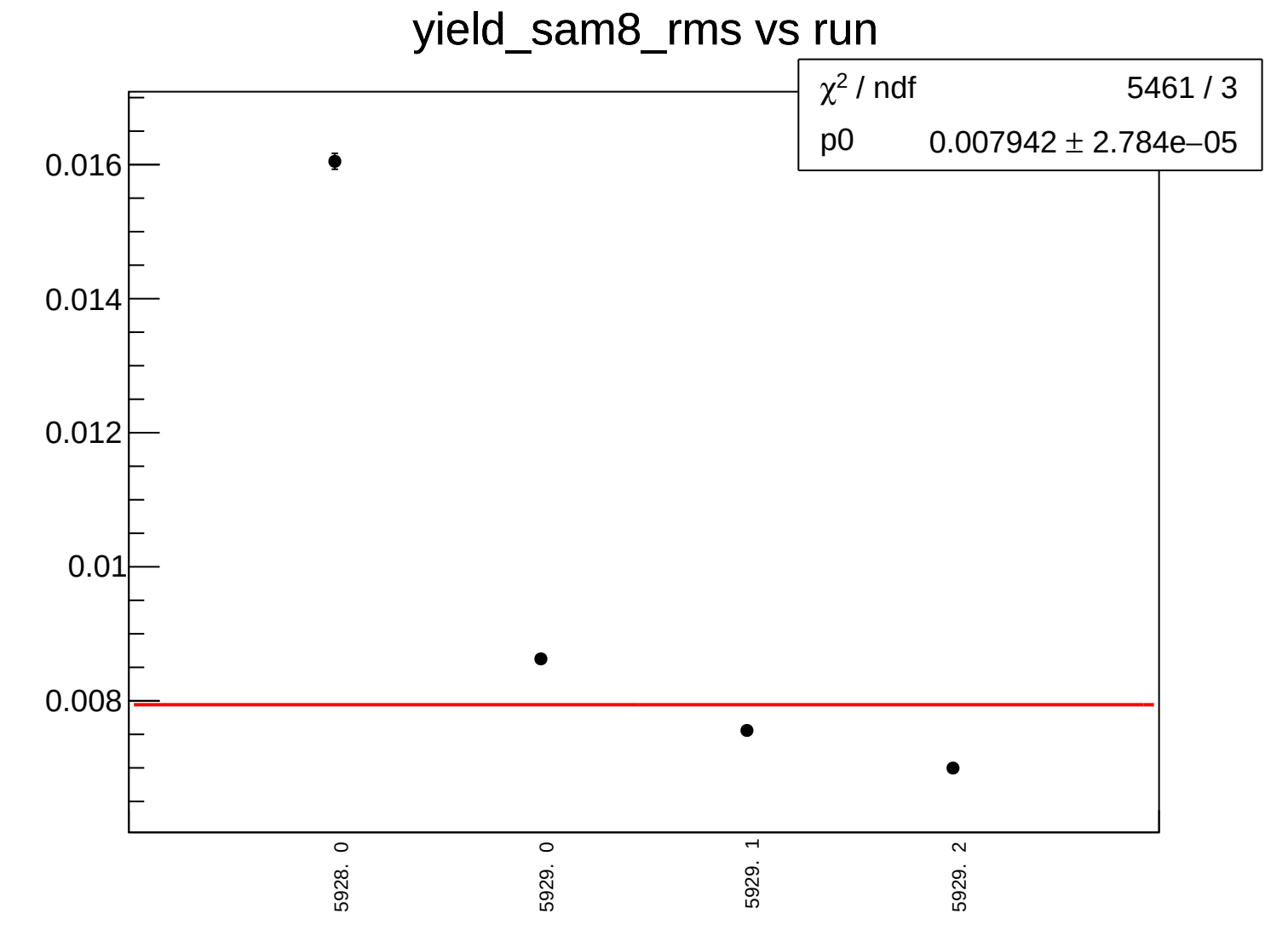

pull
Entries 4
Mean 8.409
Std Dev 5.699
120
100
80
60
40
20
0
−20
−40
−60
−80

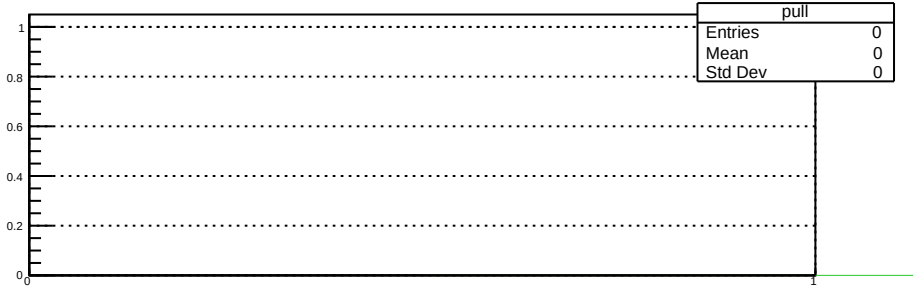

pull1D
Entries 4
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

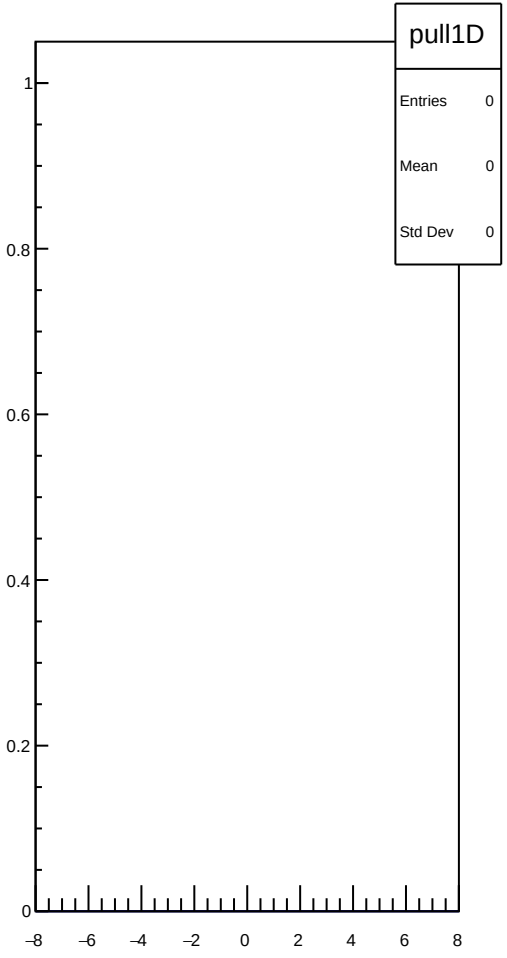

yield_sam7_rms vs run
χ² / ndf 9817 / 3
p0 0.002303 ± 8.297e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
5928. 0
5929. 0
5929. 1
5929. 2

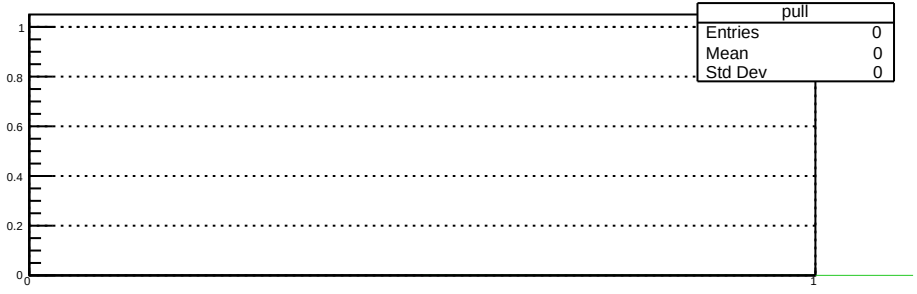

yield_sam8_mean vs run
χ² / ndf 5.002e+04 / 3
p0 10.09 ± 3.937e−05
10.12
10.115
10.11
10.105
10.1
10.095
10.09
10.085
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.129
Std Dev 3.022
150
100
50
0
−50
−100

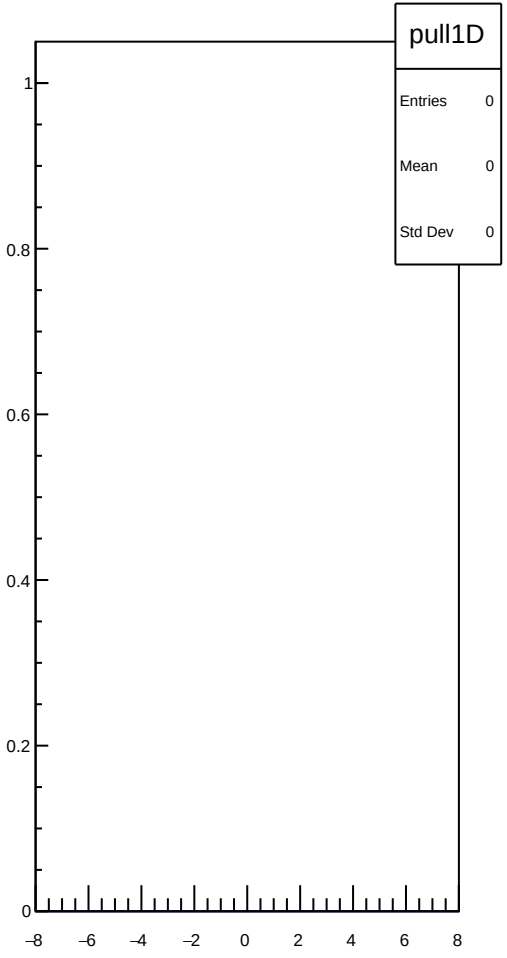

pull1D
Entries 4
Mean 6.761
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

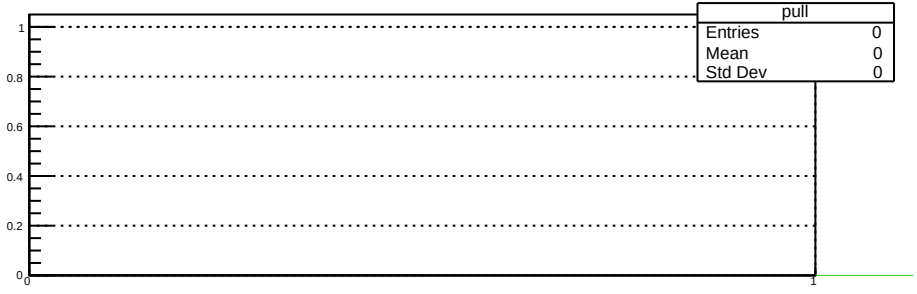

yield_sam8_rms vs run
χ² / ndf 5461 / 3
p0 0.007942 ± 2.784e−05
0.016
0.014
0.012
0.01
0.008
5928. 0
5929. 0
5929. 1
5929. 2

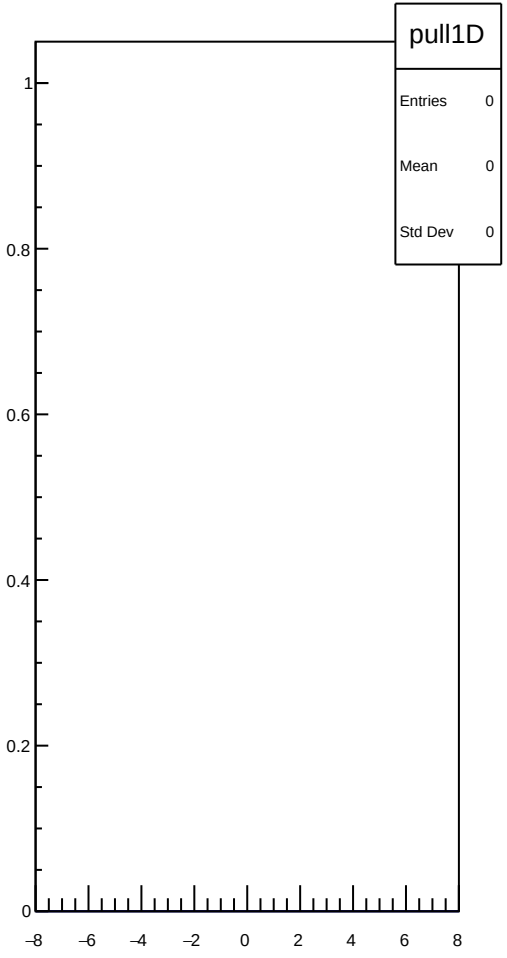

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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
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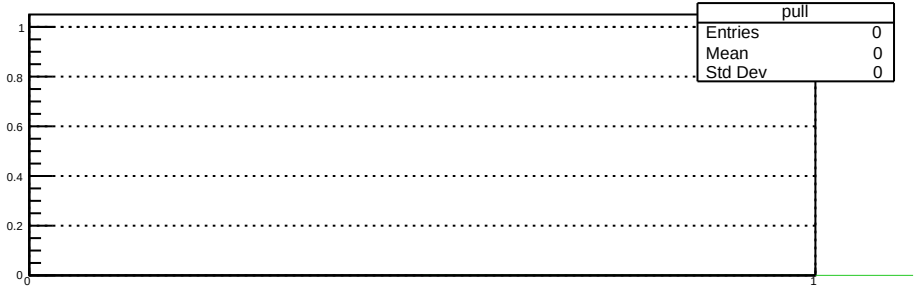
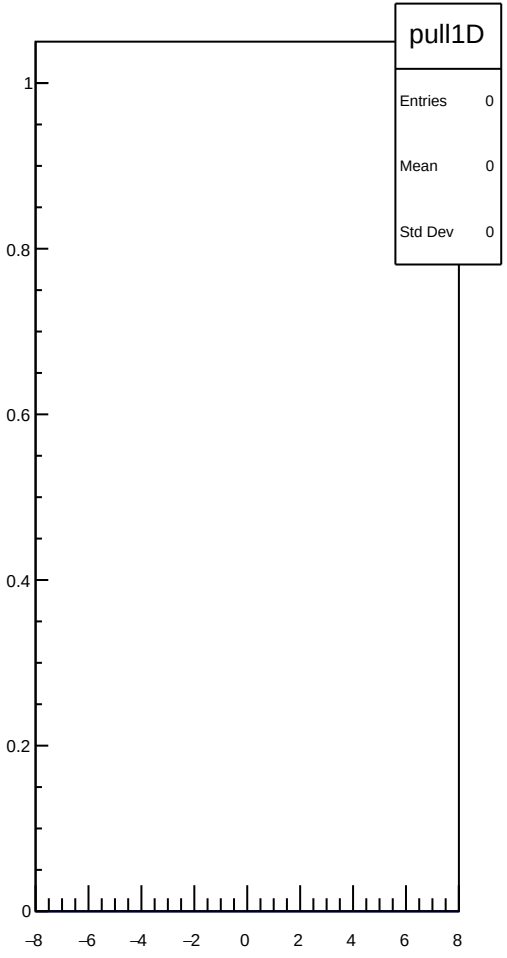
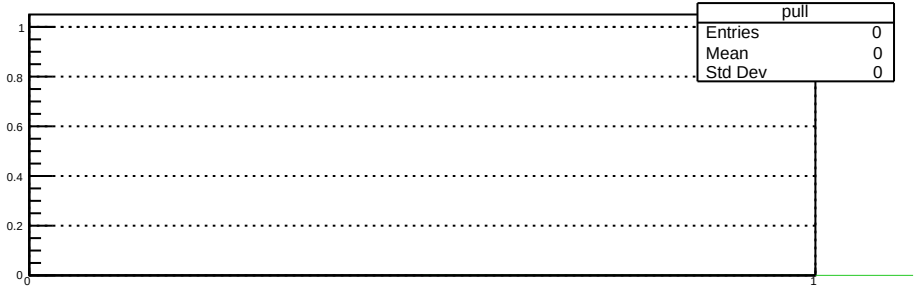
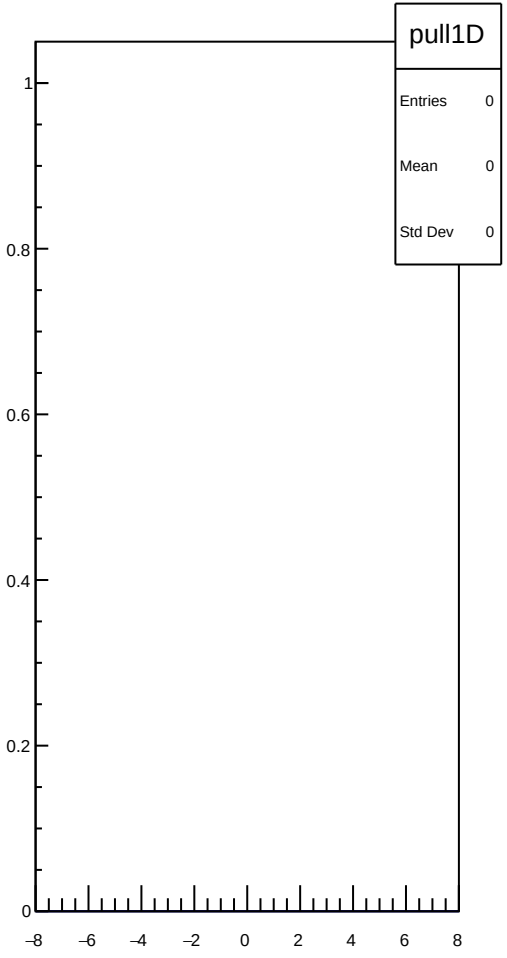
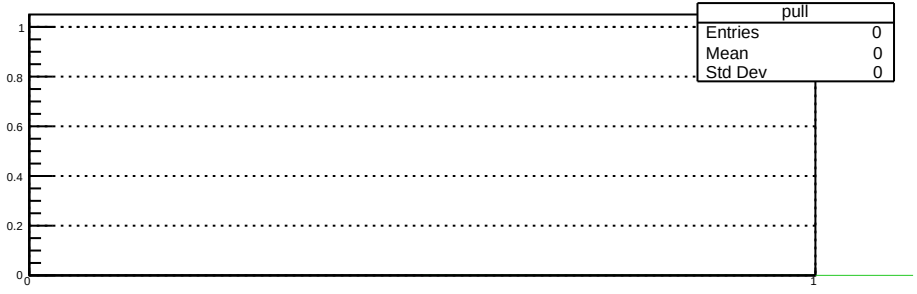
0
2
4
6
8

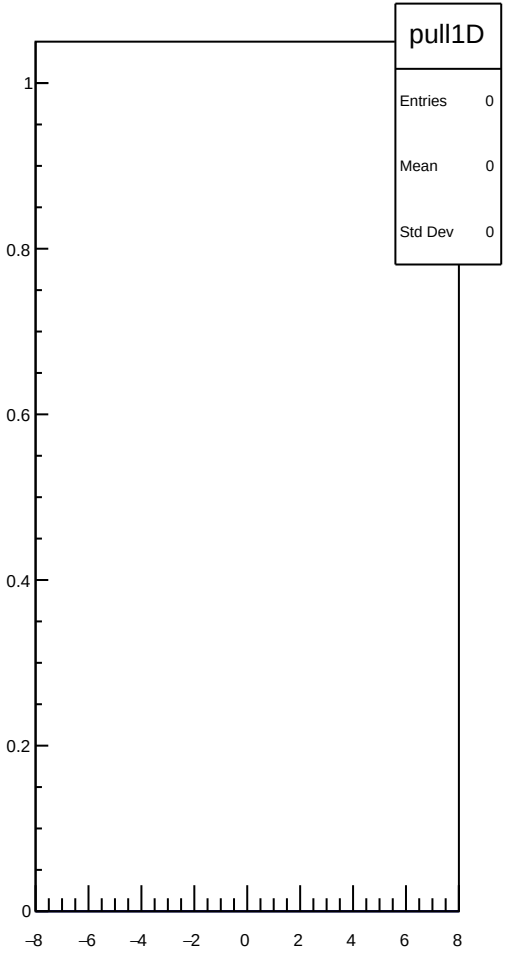

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

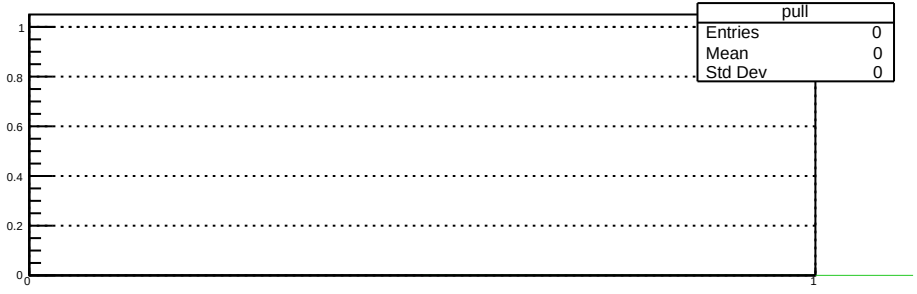

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

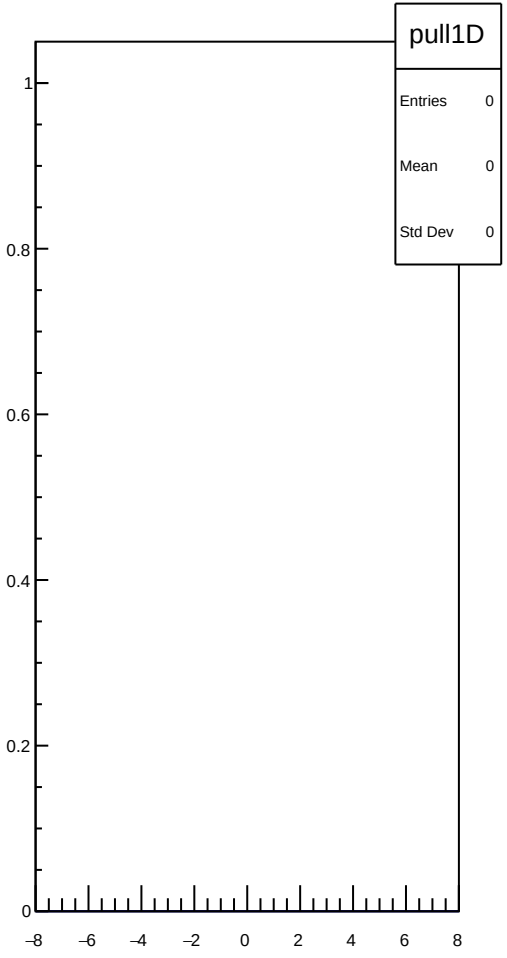

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

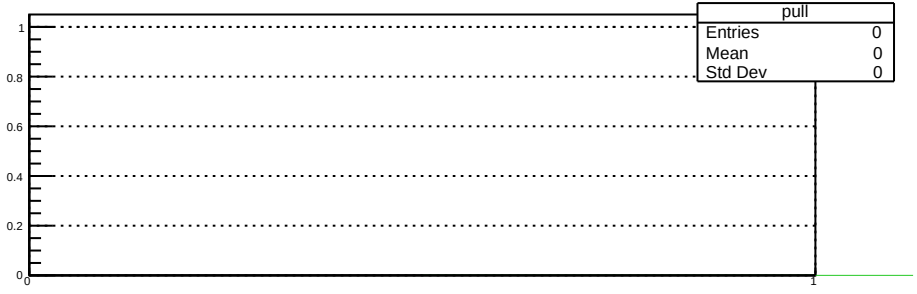

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

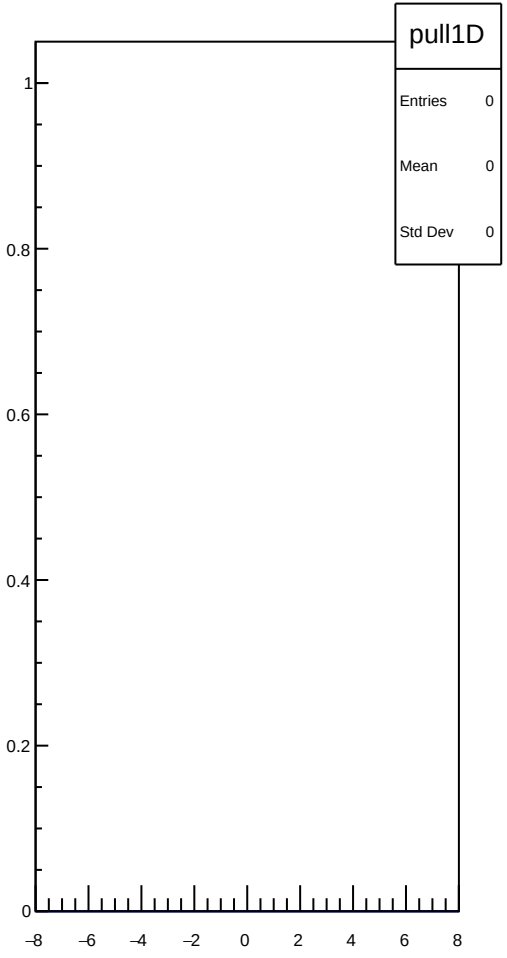

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

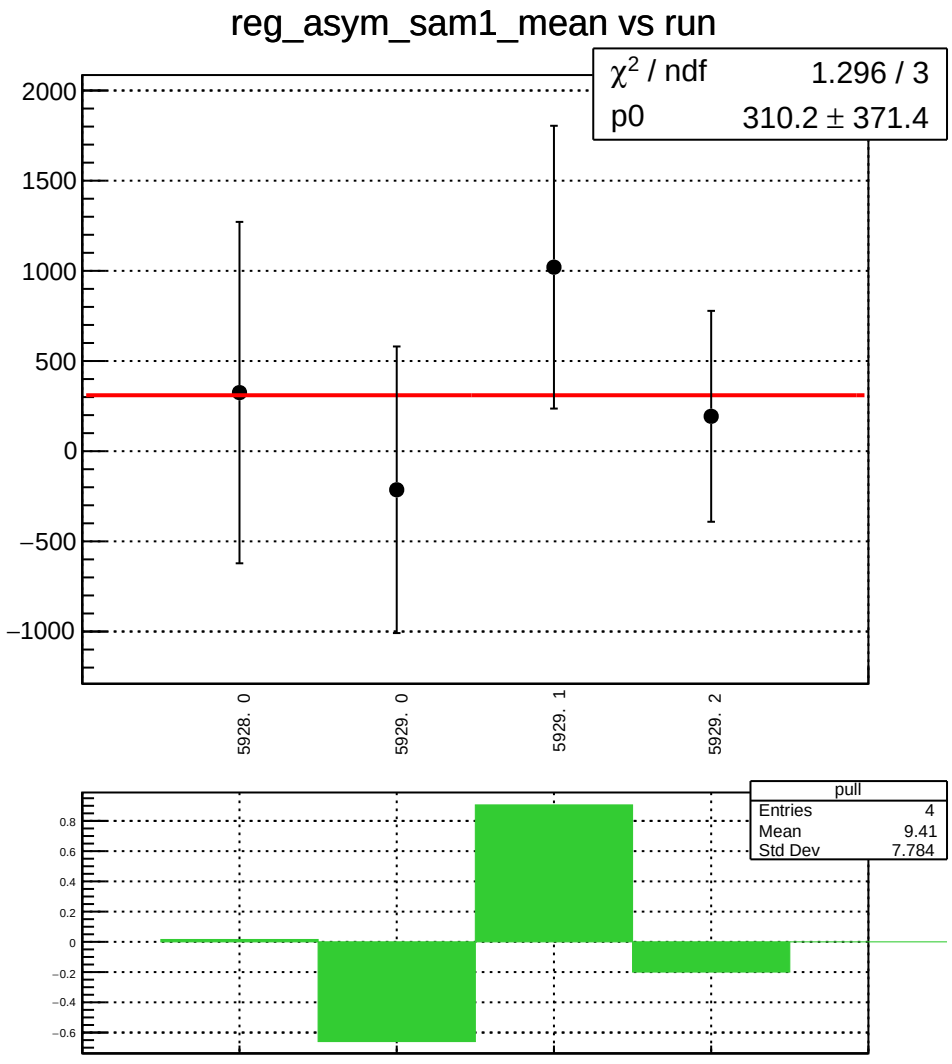

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

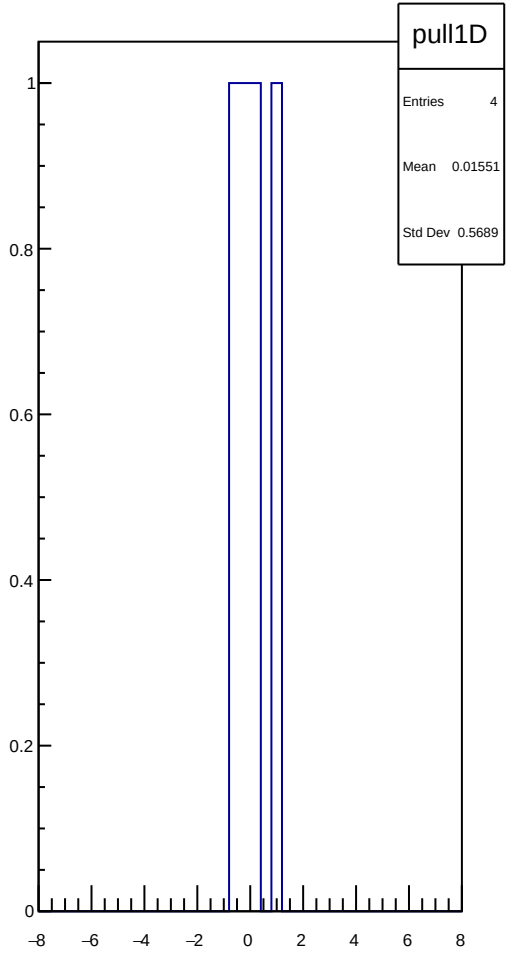

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

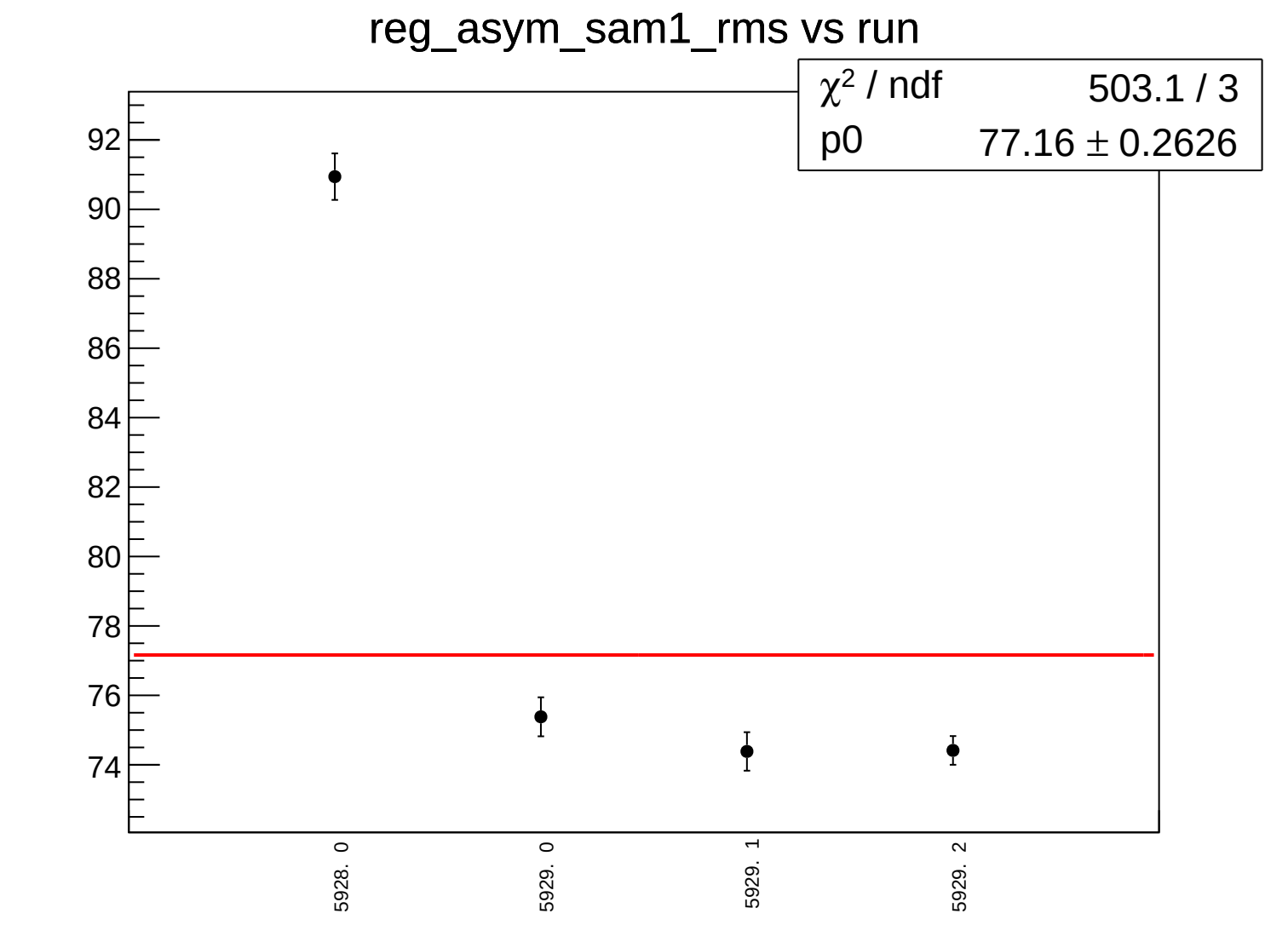

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

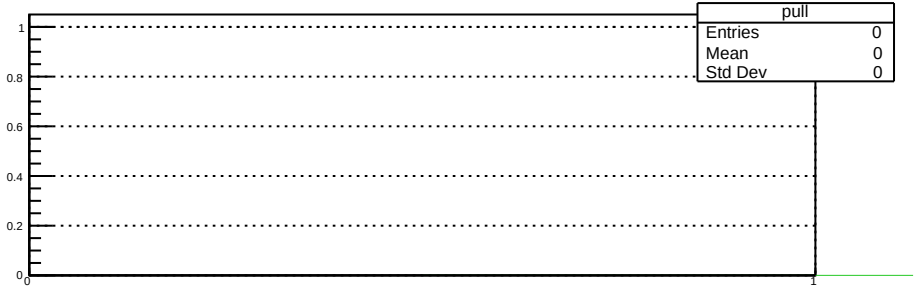

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

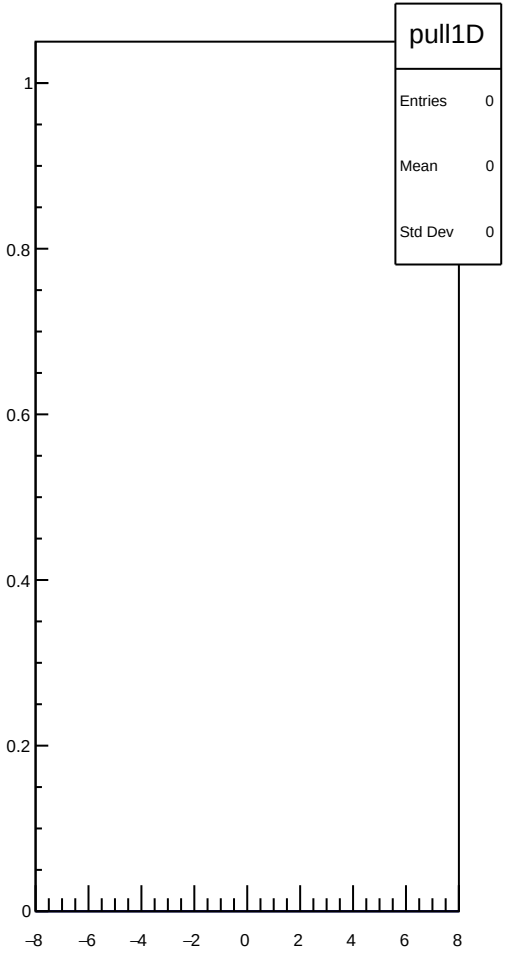

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

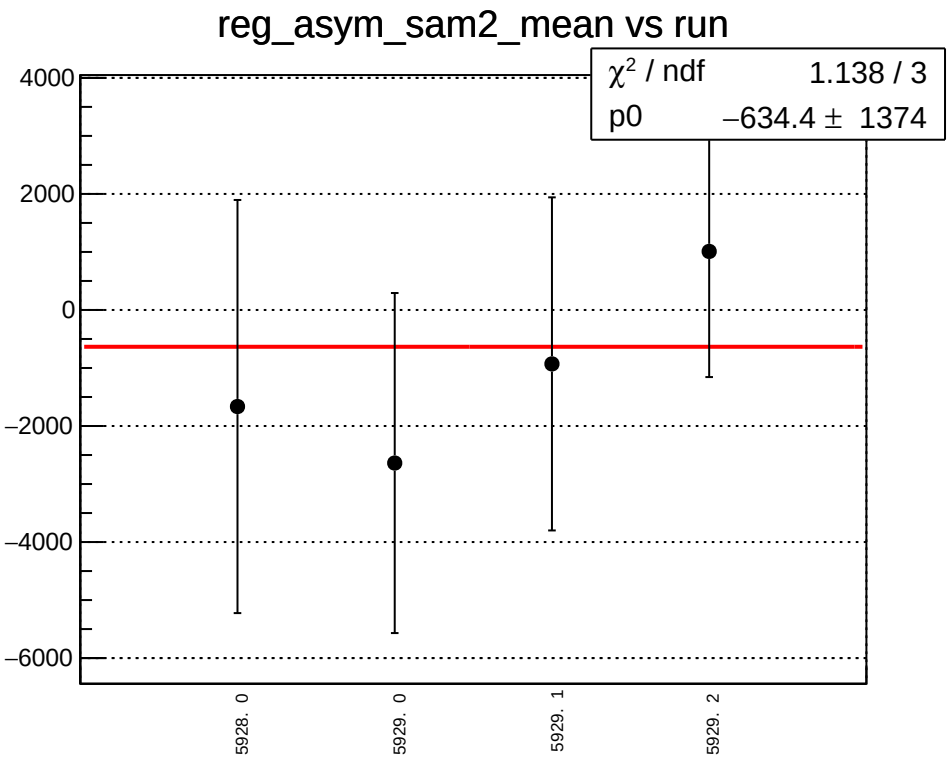

reg_asym_sam1_mean vs run
χ² / ndf 1.296 / 3
p0 310.2 ± 371.4
2000
1500
1000
500
0
−500
−1000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.41
Std Dev 7.784
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

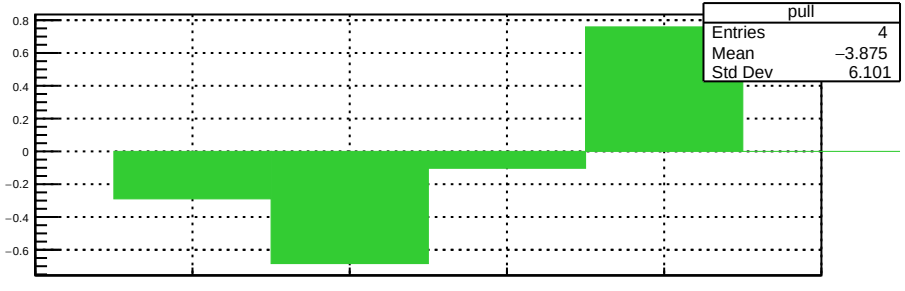

pull1D
Entries 4
Mean 0.01551
Std Dev 0.5689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

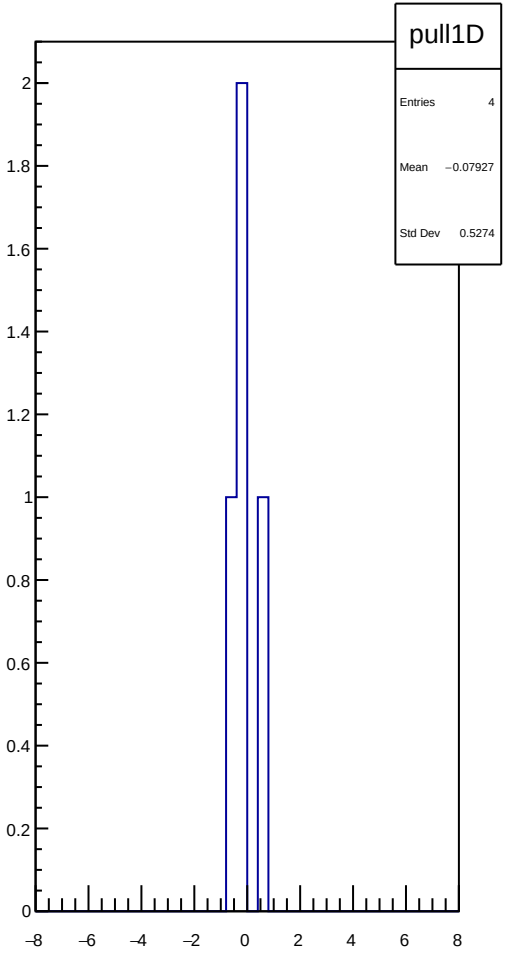

reg_asym_sam1_rms vs run
χ² / ndf 503.1 / 3
p0 77.16 ± 0.2626
92
90
88
86
84
82
80
78
76
74
5928. 0
5929. 0
5929. 1
5929. 2

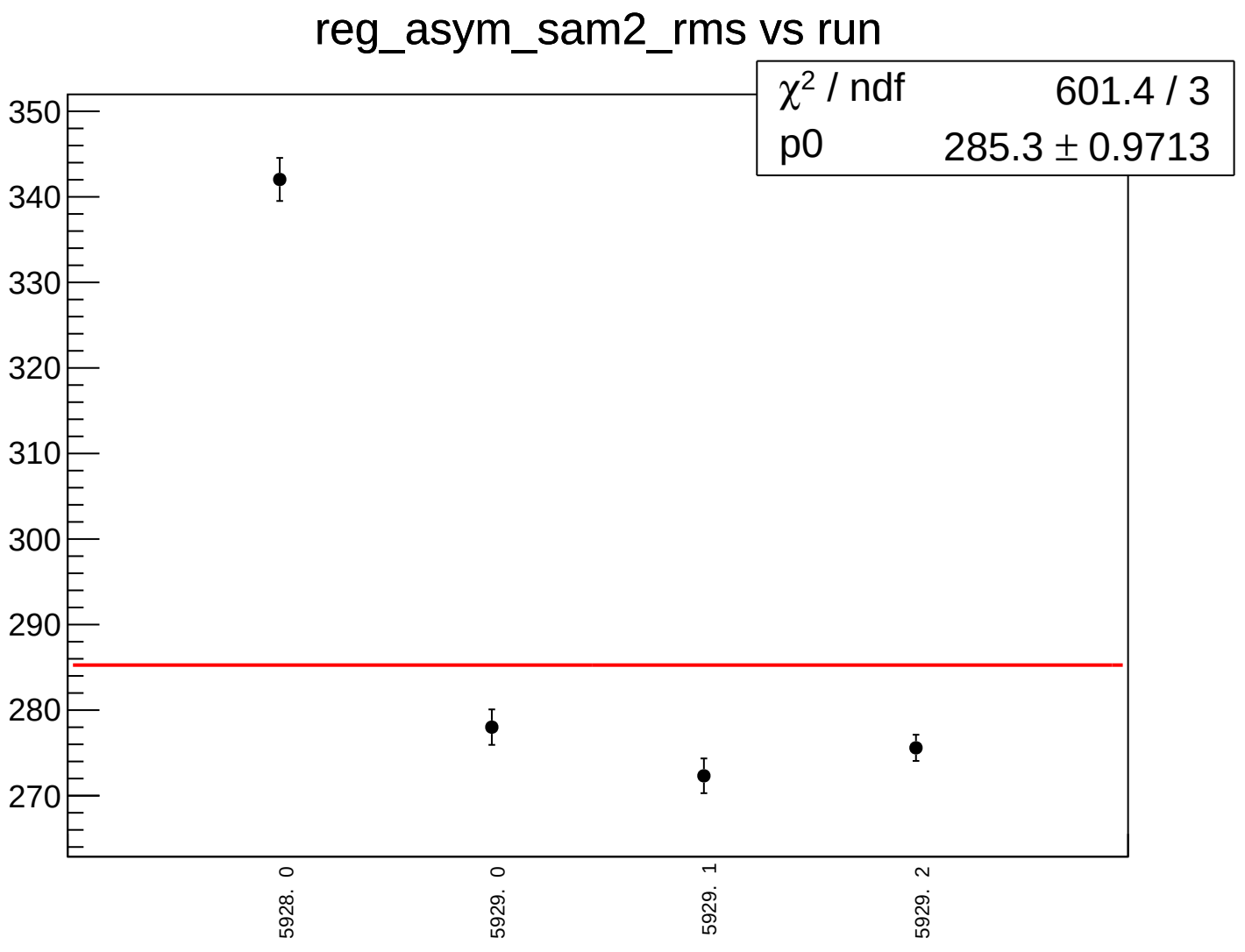

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

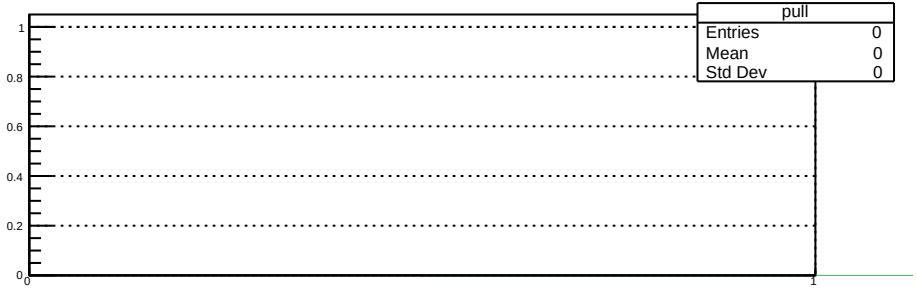

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

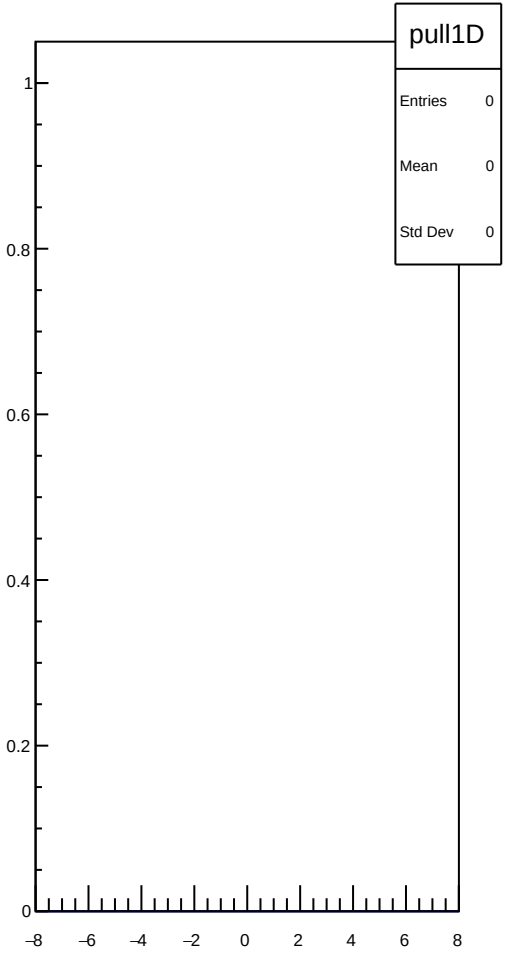

reg_asym_sam2_mean vs run
χ² / ndf 1.138 / 3
p0 −634.4 ± 1374
4000
2000
0
−2000
−4000
−6000
5928. 0
5929. 0
5929. 1
5929. 2

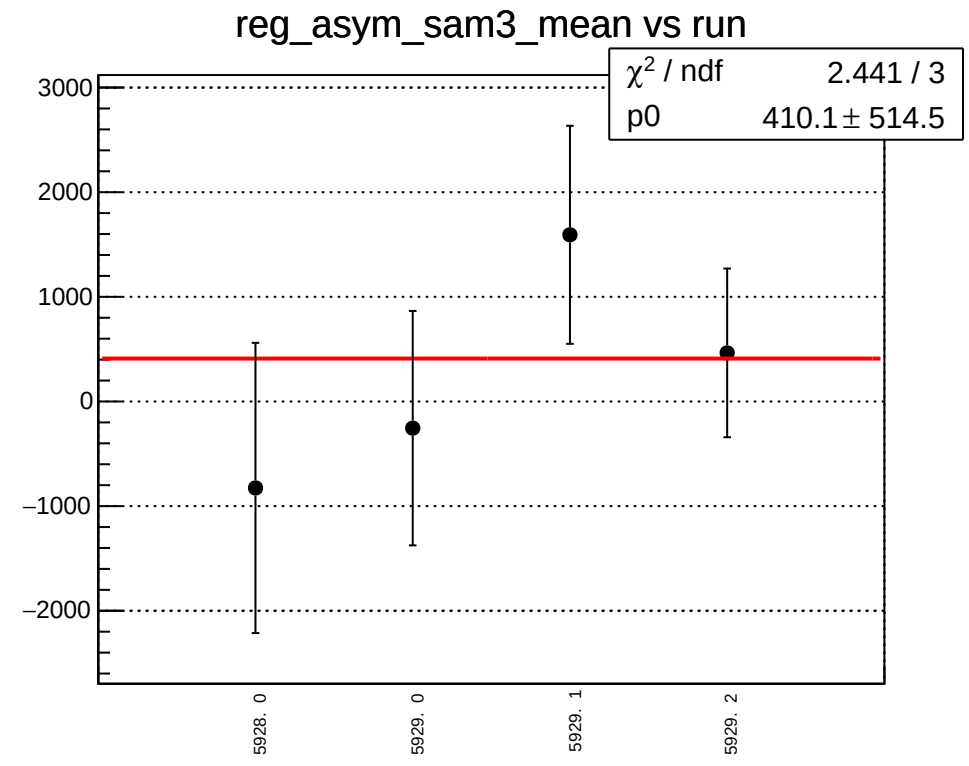

pull
Entries 4
Mean −3.875
Std Dev 6.101
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

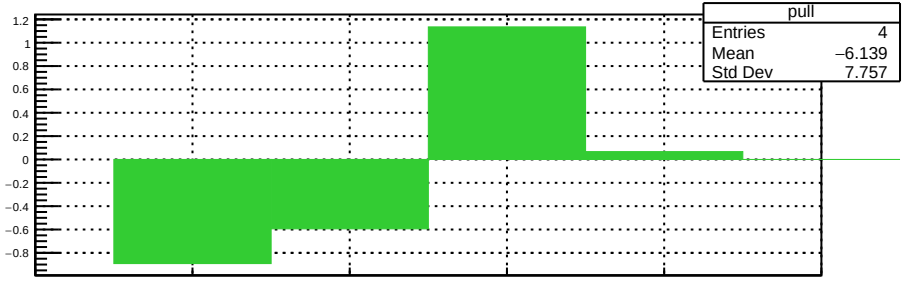

pull1D
Entries 4
Mean −0.07927
Std Dev 0.5274
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

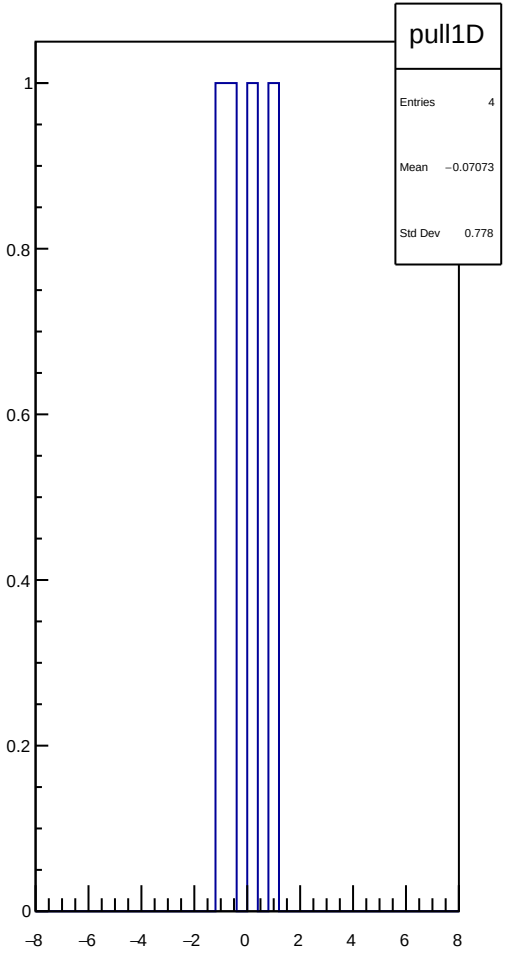

reg_asym_sam2_rms vs run
χ² / ndf 601.4 / 3
p0 285.3 ± 0.9713
350
340
330
320
310
300
290
280
270
5928. 0
5929. 0
5929. 1
5929. 2

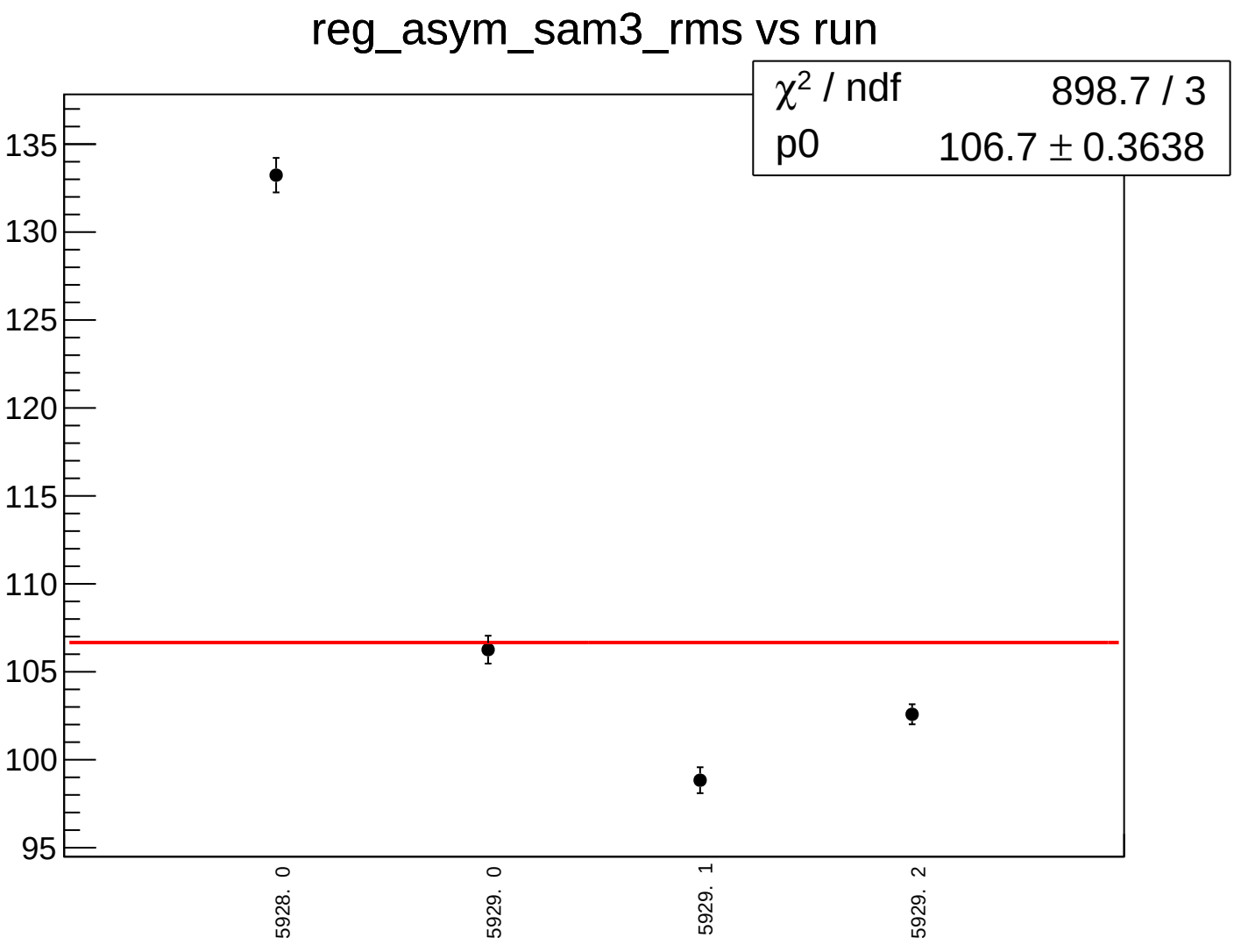

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

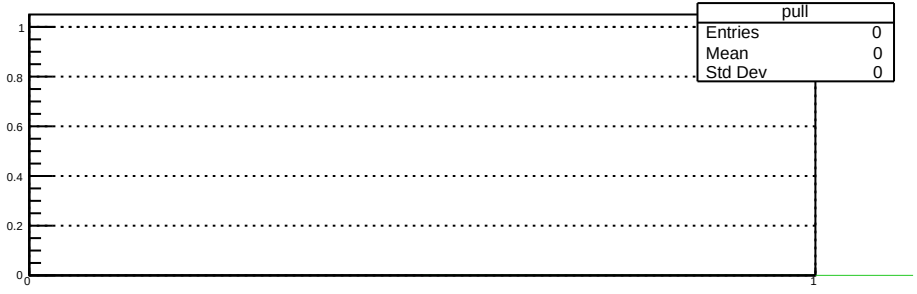

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

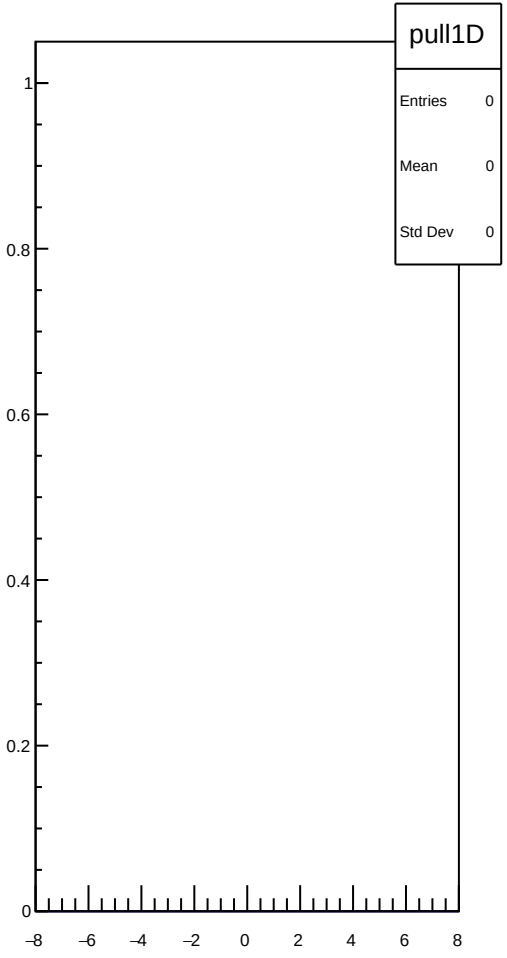

reg_asym_sam3_mean vs run
χ² / ndf 2.441 / 3
p0 410.1 ± 514.5
3000
2000
1000
0
−1000
−2000
5928. 0
5929. 0
5929. 1
5929. 2

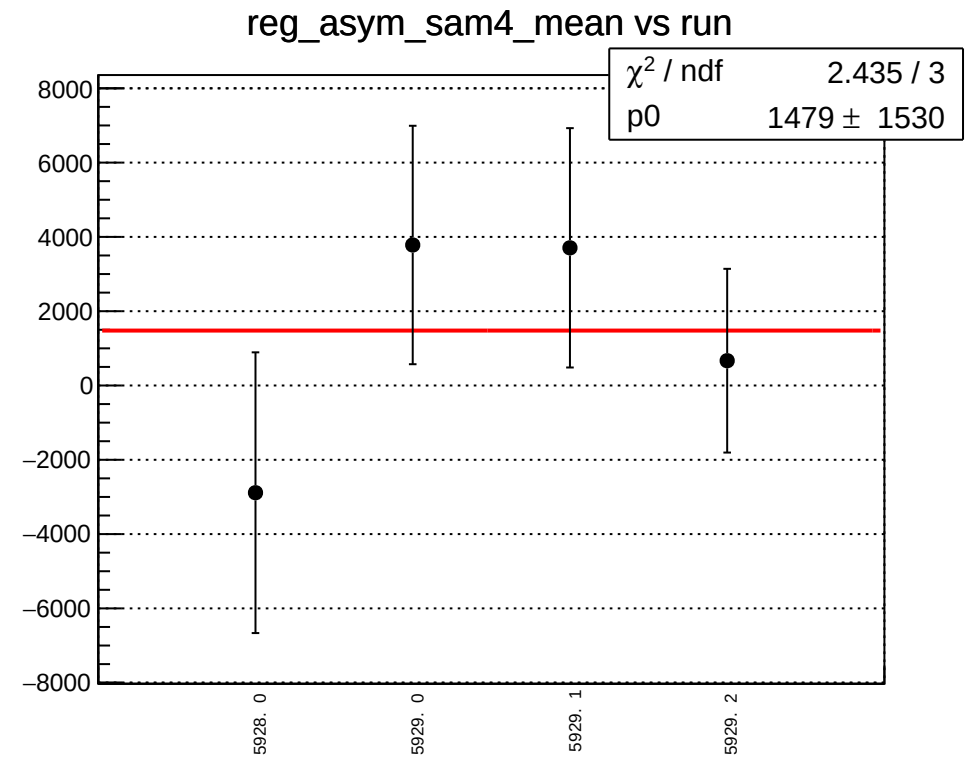

pull
Entries 4
Mean −6.139
Std Dev 7.757
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

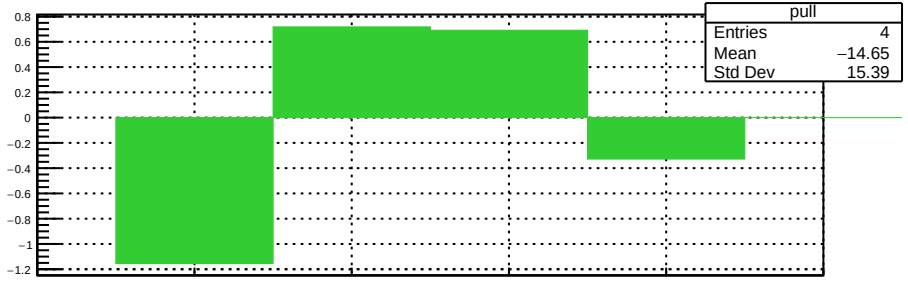

pull1D
Entries 4
Mean −0.07073
Std Dev 0.778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

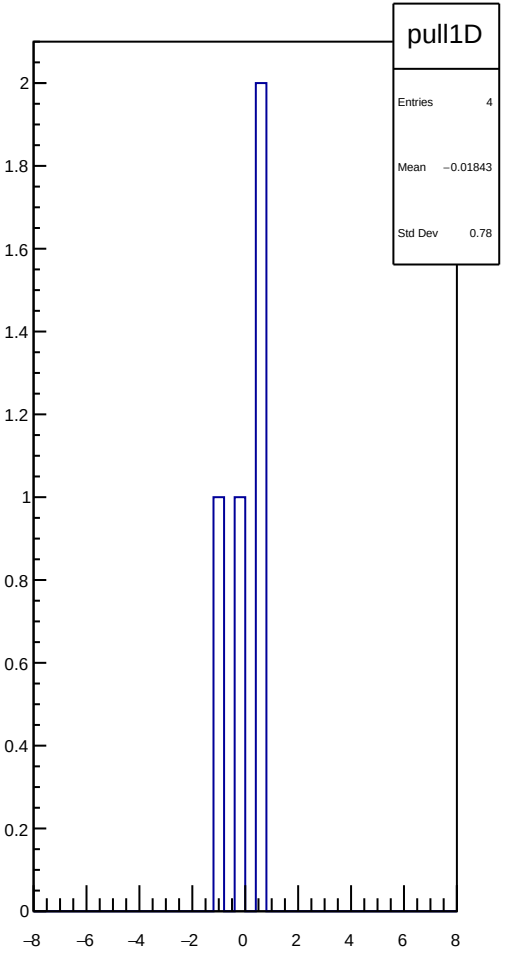

reg_asym_sam3_rms vs run
χ² / ndf 898.7 / 3
p0 106.7 ± 0.3638
135
130
125
120
115
110
105
100
95
5928. 0
5929. 0
5929. 1
5929. 2

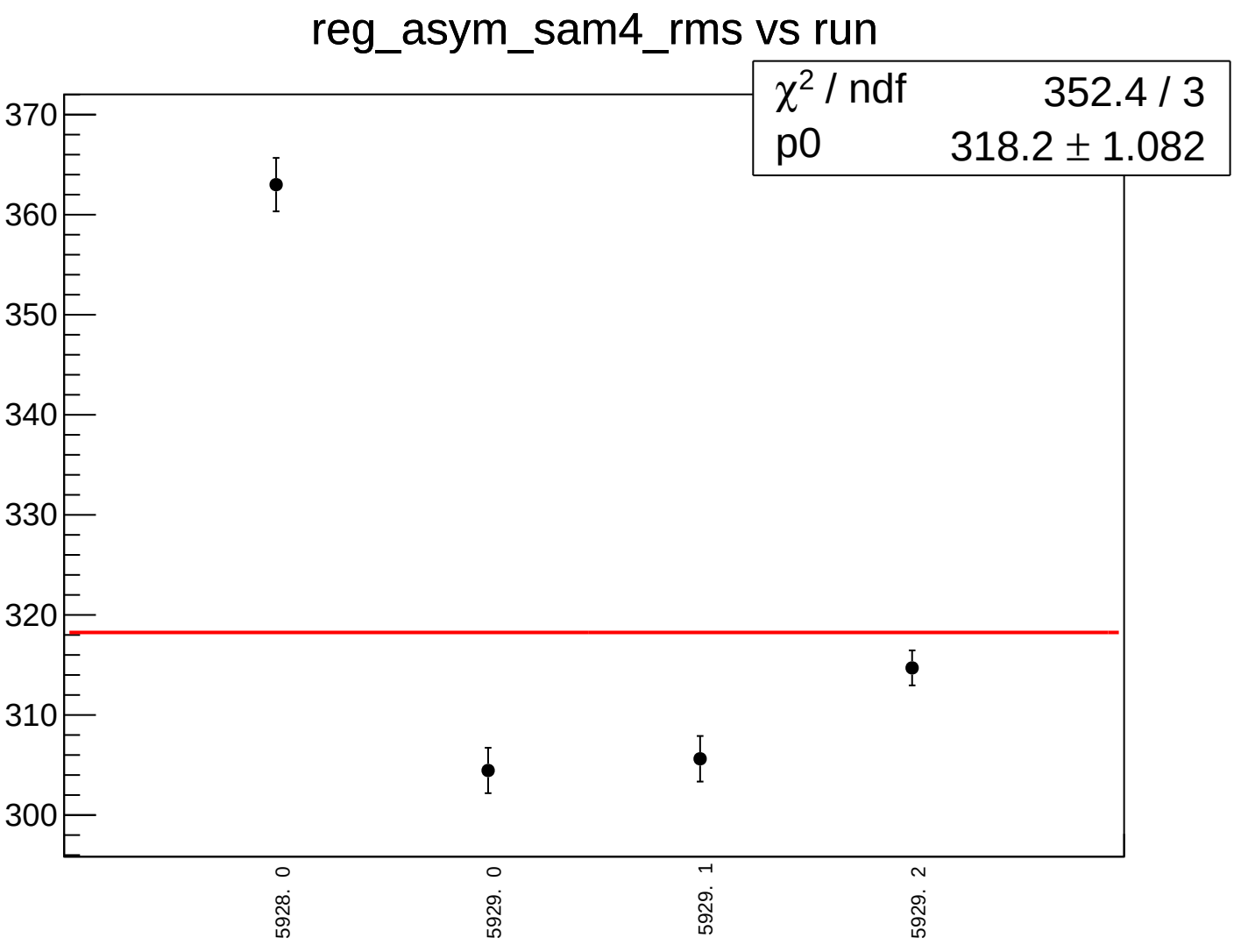

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

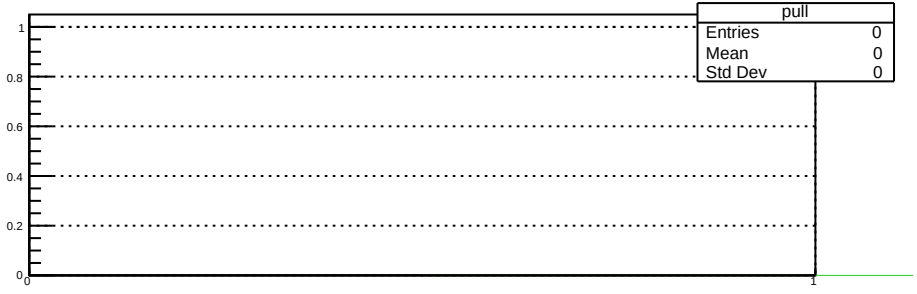

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

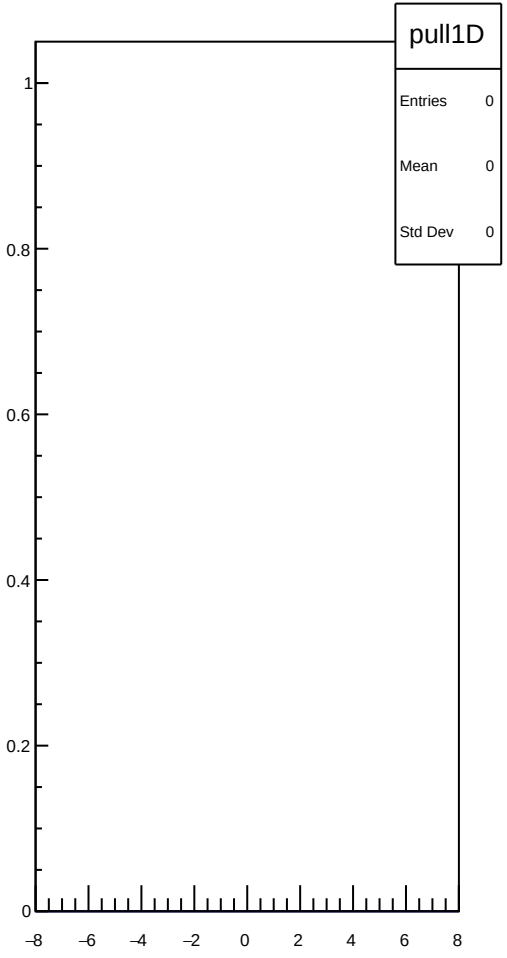

reg_asym_sam4_mean vs run
χ² / ndf 2.435 / 3
p0 1479 ± 1530
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5928. 0
5929. 0
5929. 1
5929. 2

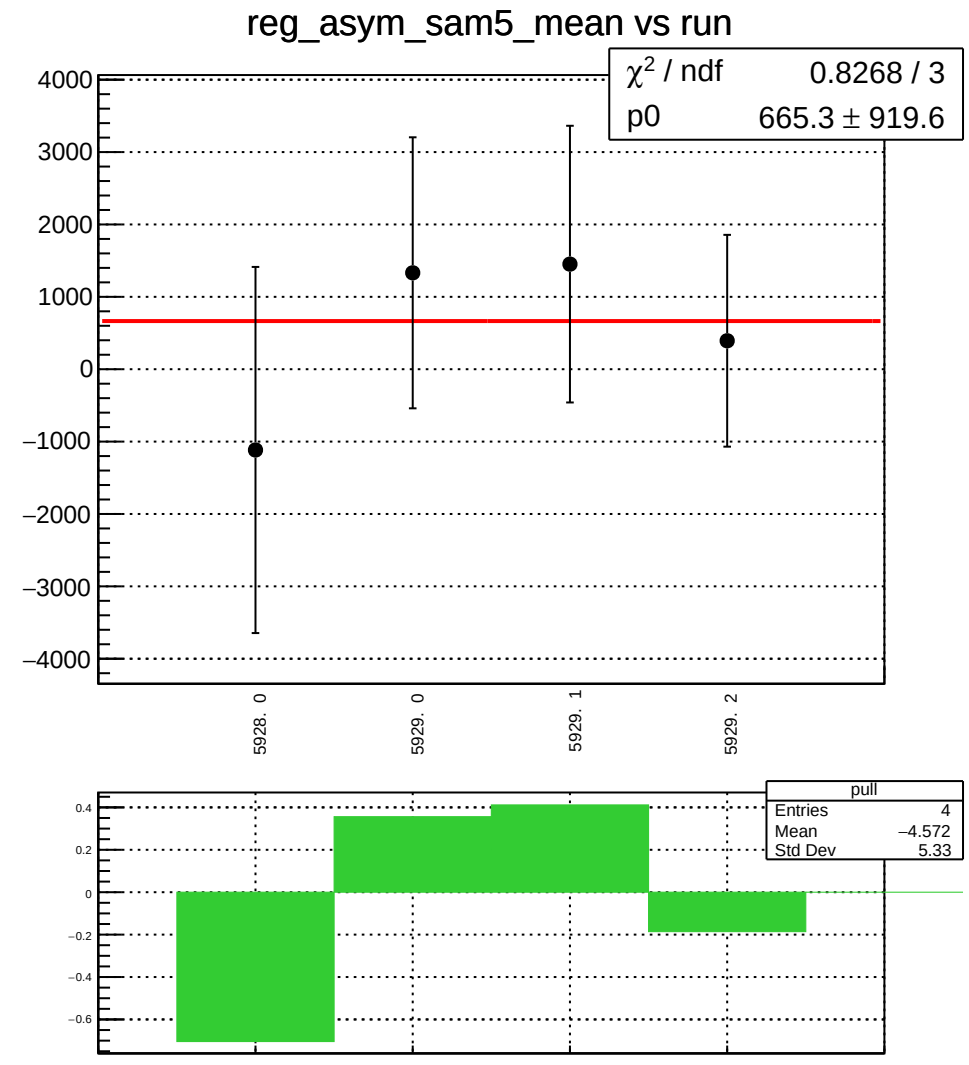

pull
Entries 4
Mean −14.65
Std Dev 15.39
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

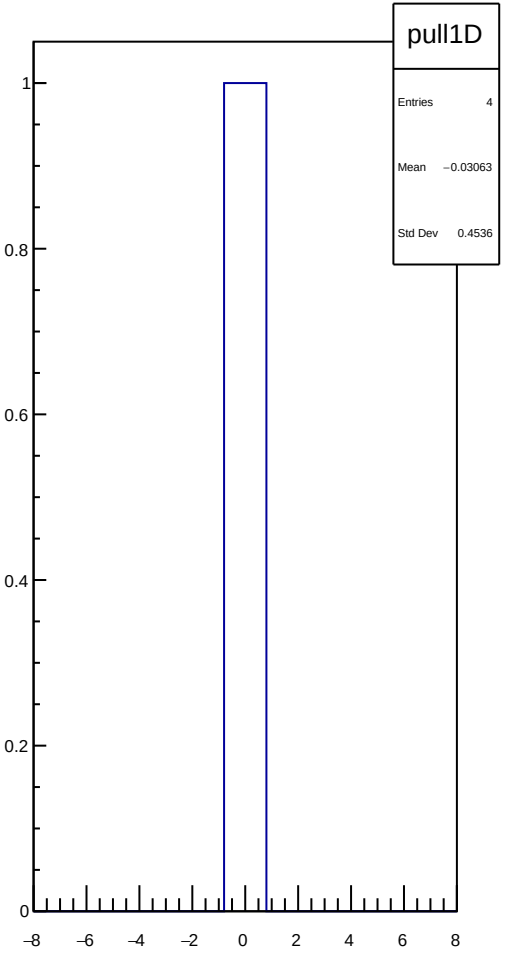

pull1D
Entries 4
Mean −0.01843
Std Dev 0.78
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

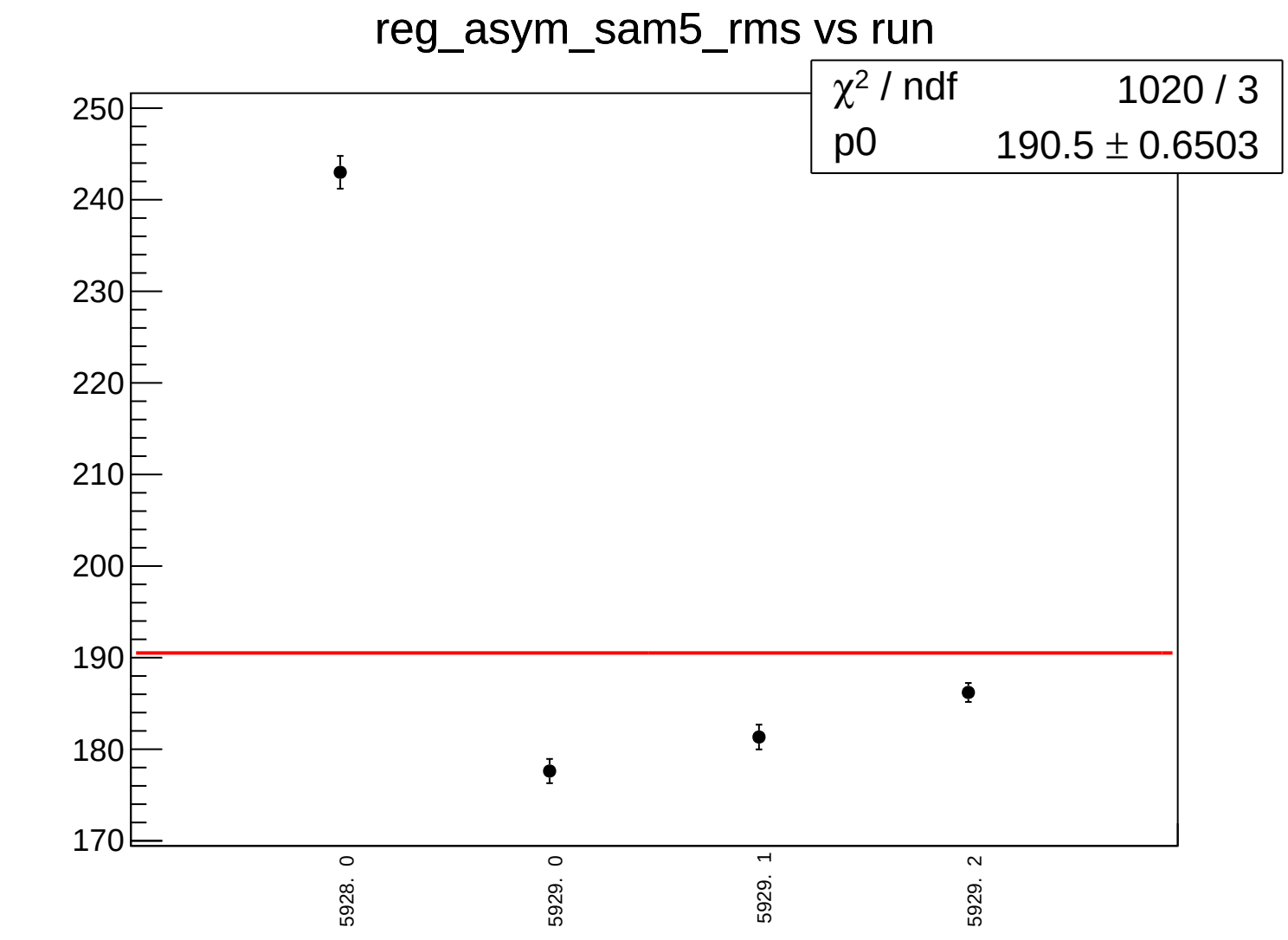

reg_asym_sam4_rms vs run
χ² / ndf 352.4 / 3
p0 318.2 ± 1.082
370
360
350
340
330
320
310
300
5928. 0
5929. 0
5929. 1
5929. 2

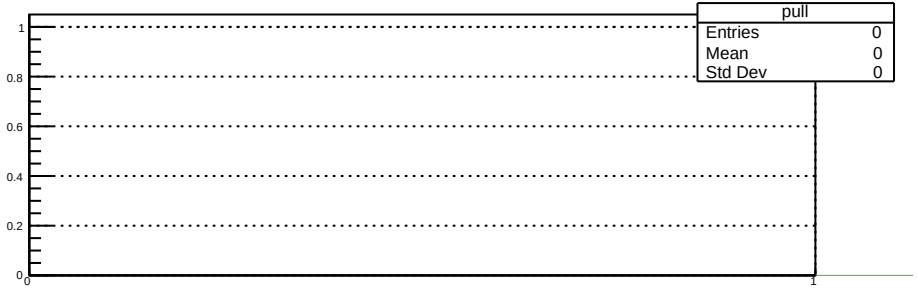

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

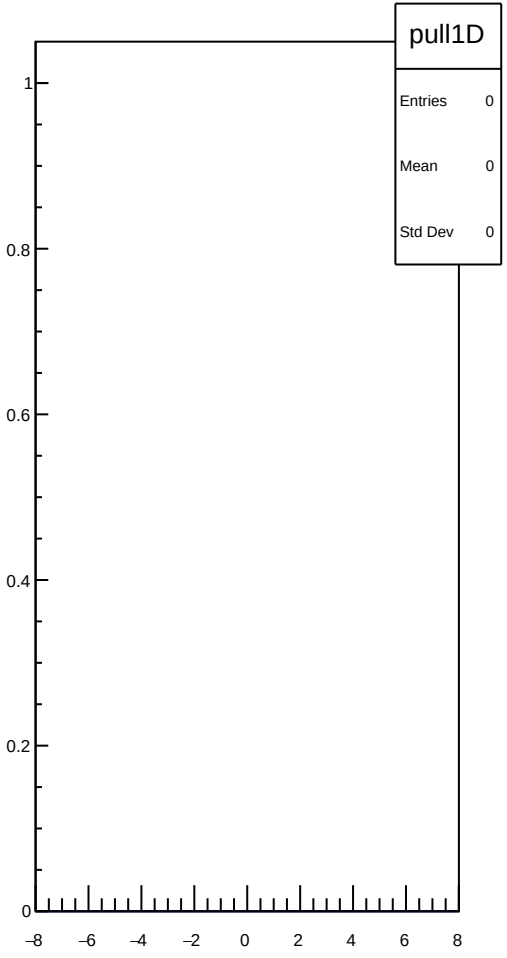

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

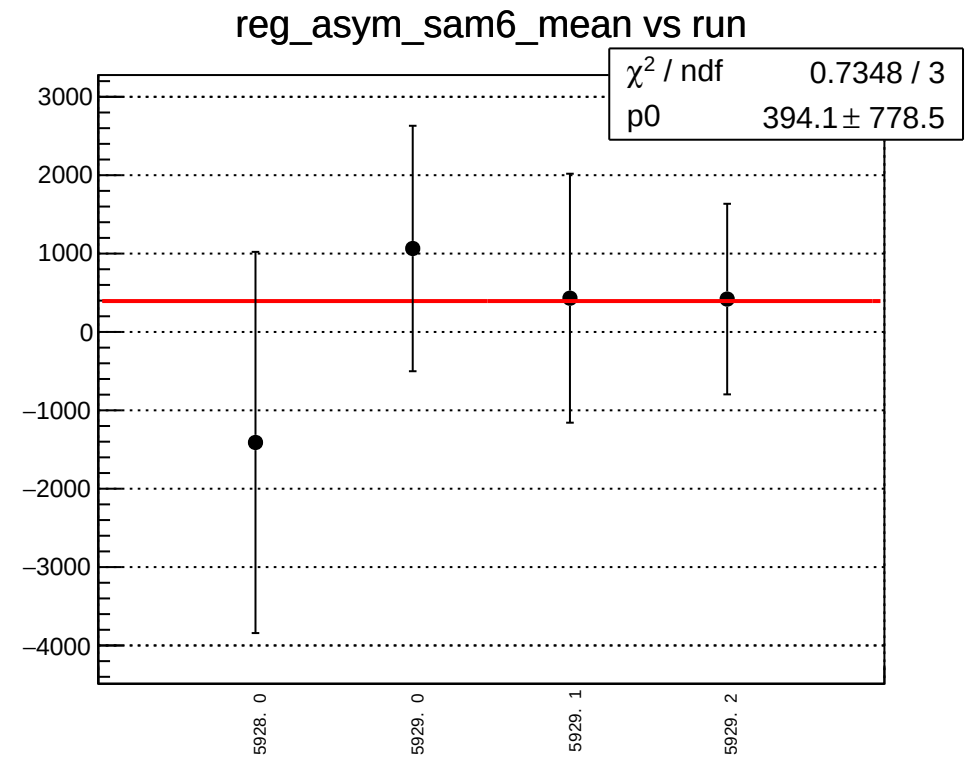

reg_asym_sam5_mean vs run
χ² / ndf 0.8268 / 3
p0 665.3 ± 919.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.572
Std Dev 5.33
0.4
0.2
0
−0.2
−0.4
−0.6

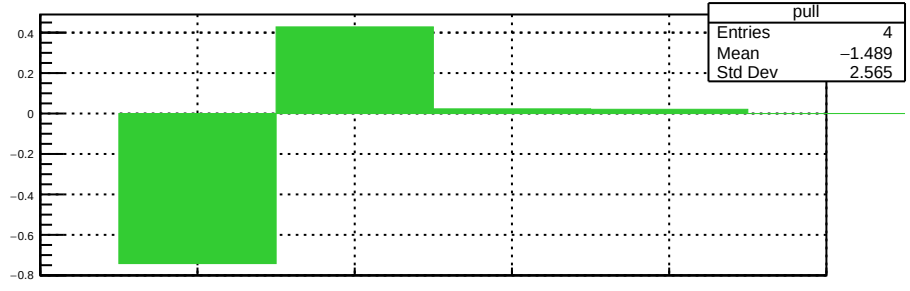

pull1D
Entries 4
Mean −0.03063
Std Dev 0.4536
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

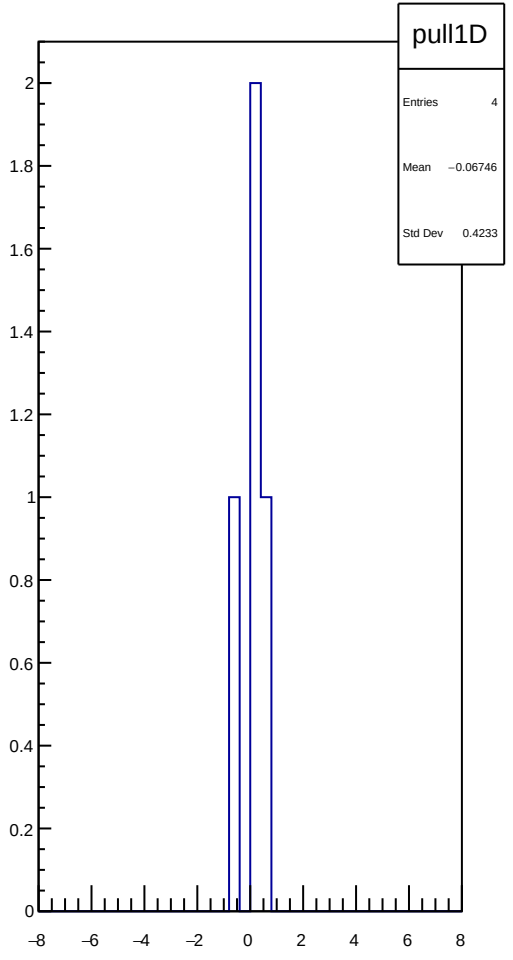

reg_asym_sam5_rms vs run
χ² / ndf 1020 / 3
p0 190.5 ± 0.6503
250
240
230
220
210
200
190
180
170
5928. 0
5929. 0
5929. 1
5929. 2

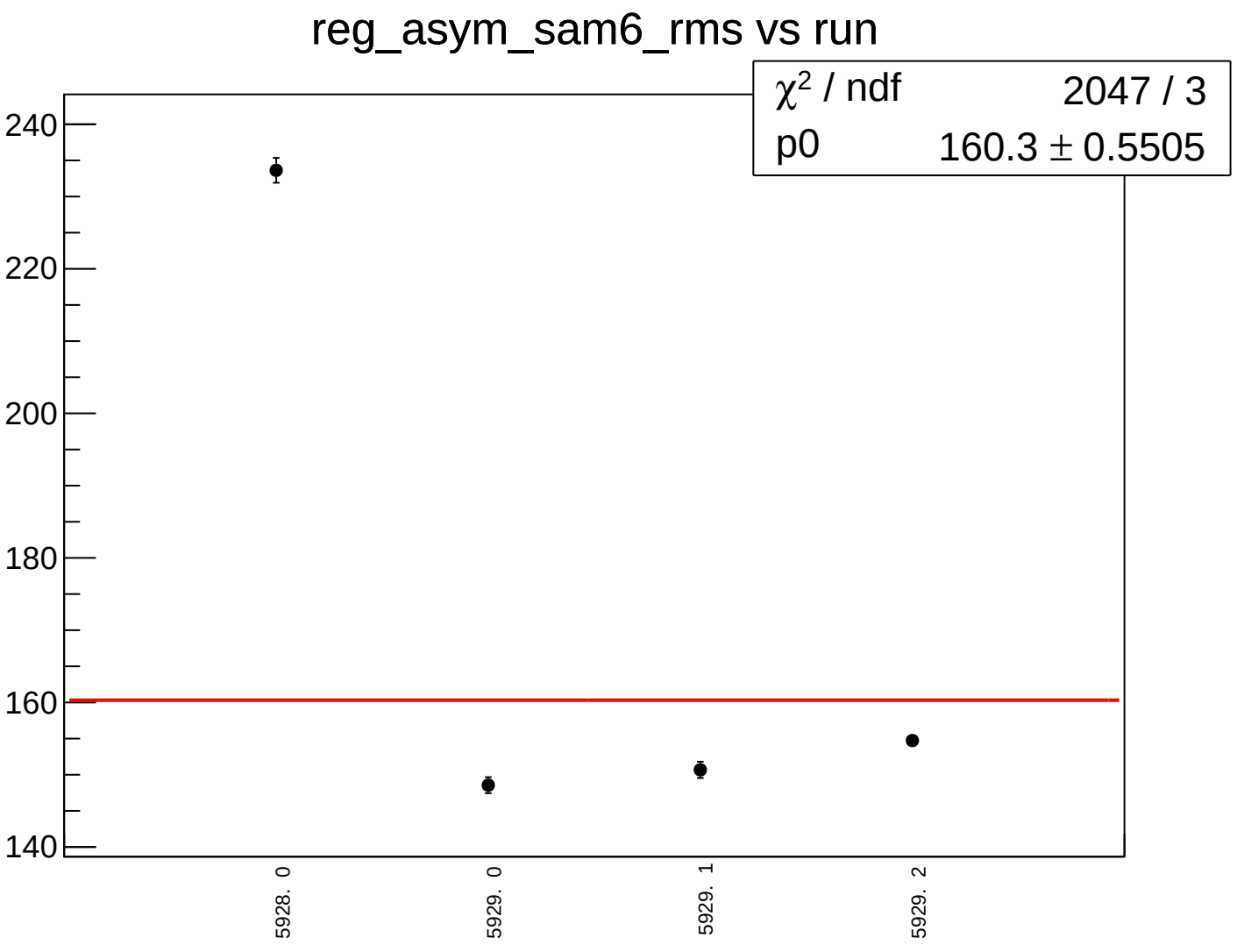

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

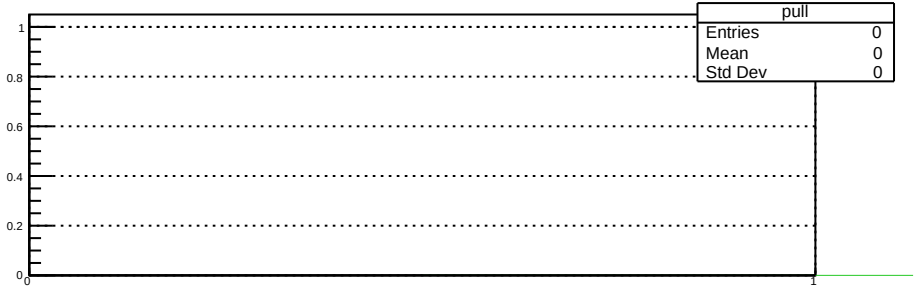

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

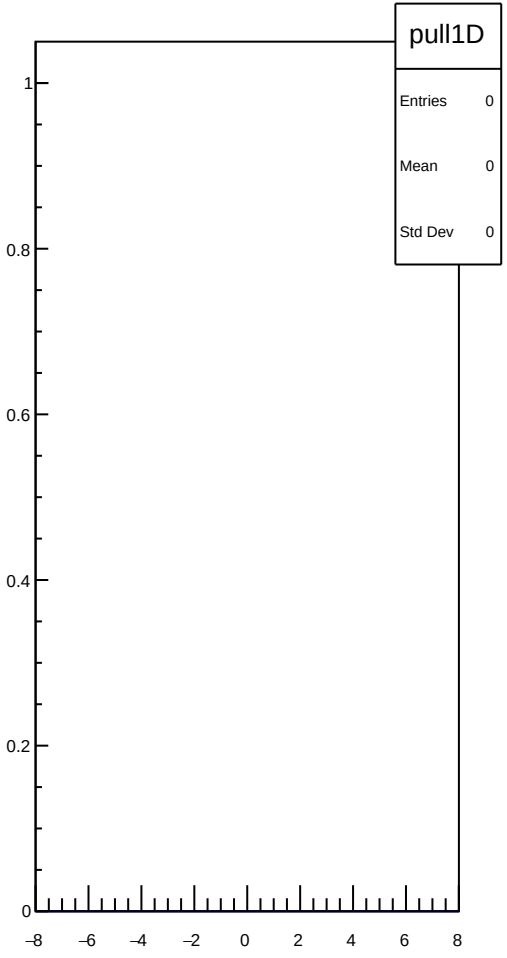

reg_asym_sam6_mean vs run
χ² / ndf 0.7348 / 3
p0 394.1 ± 778.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2

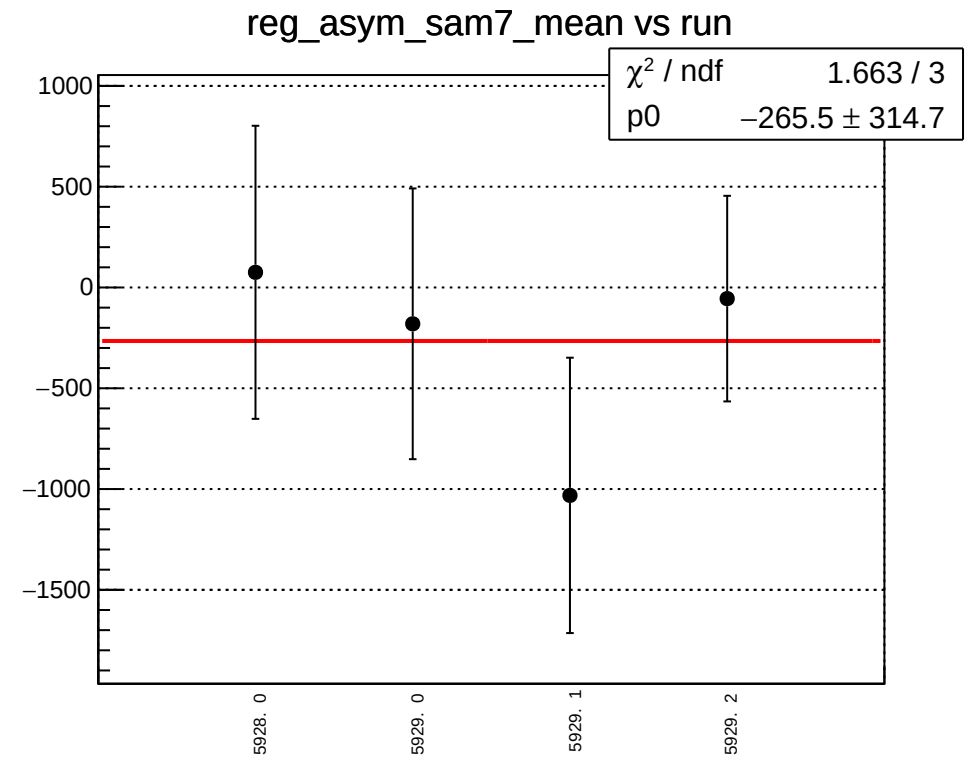

pull
Entries 4
Mean −1.489
Std Dev 2.565
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

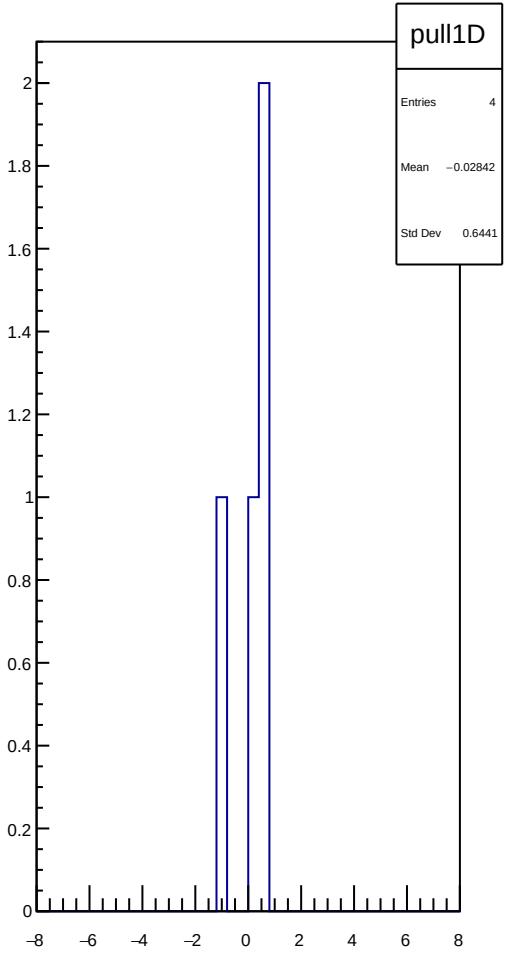

pull1D
Entries 4
Mean −0.06746
Std Dev 0.4233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

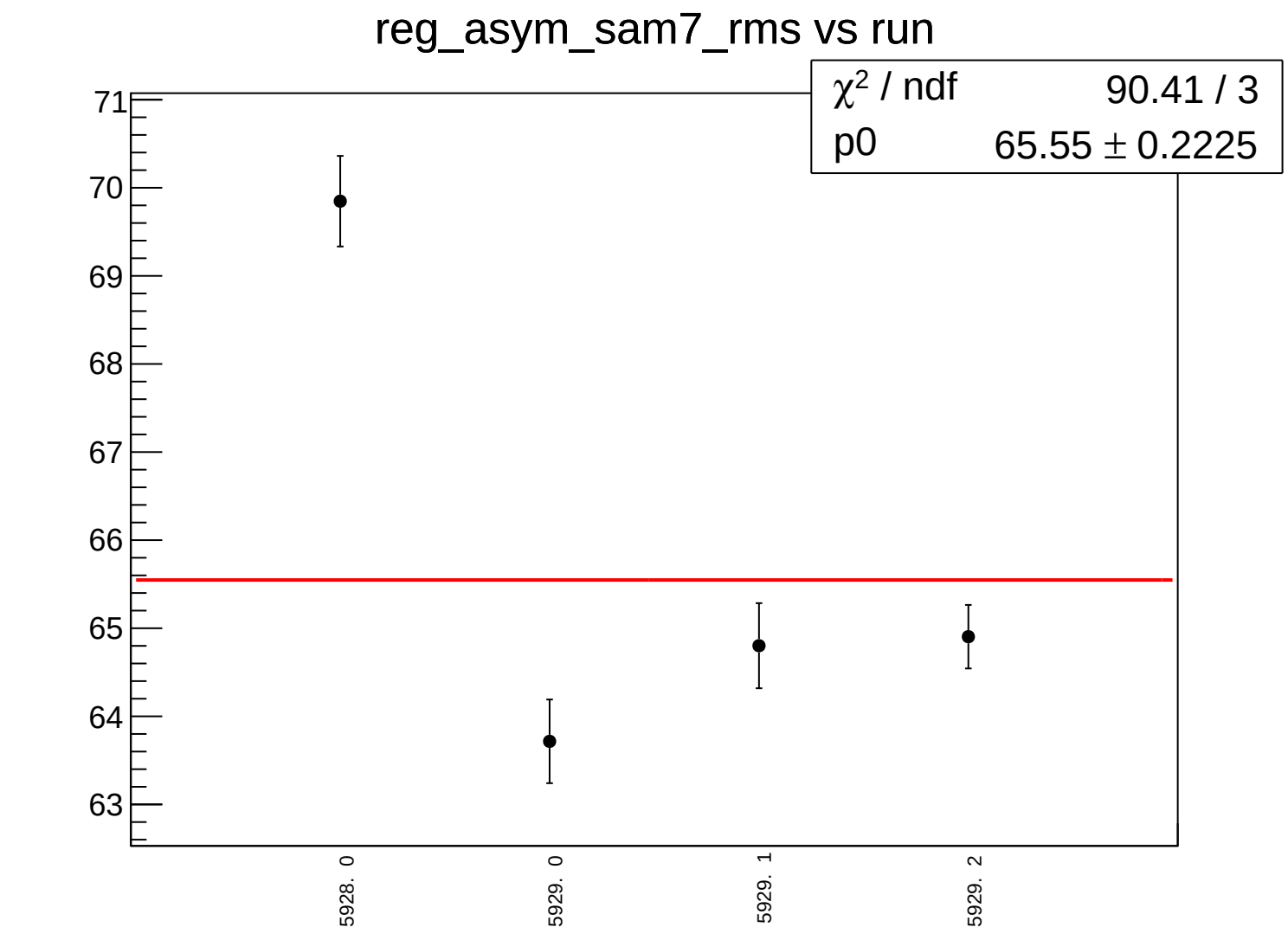

reg_asym_sam6_rms vs run
χ² / ndf 2047 / 3
p0 160.3 ± 0.5505
240
220
200
180
160
140
5928. 0
5929. 0
5929. 1
5929. 2

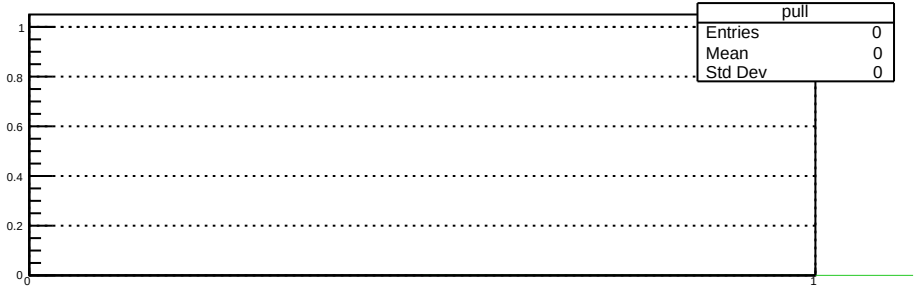

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

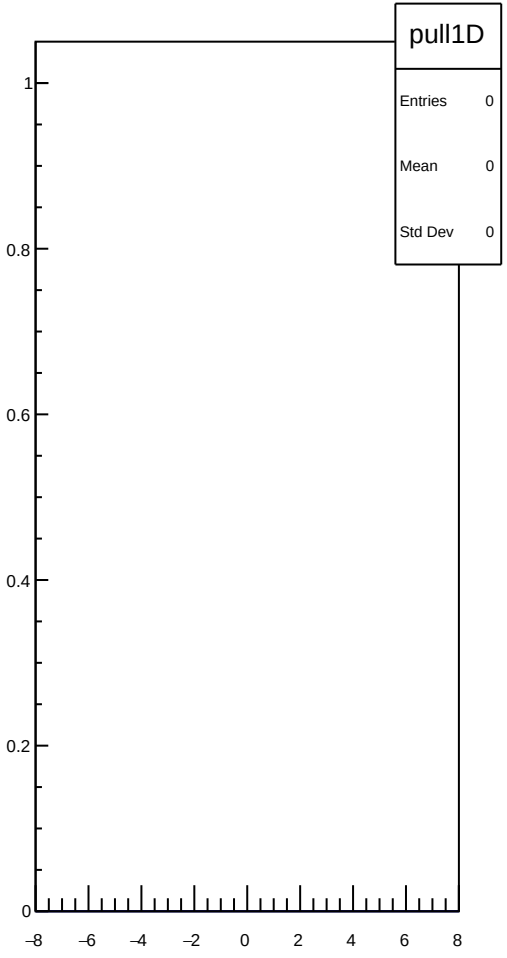

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

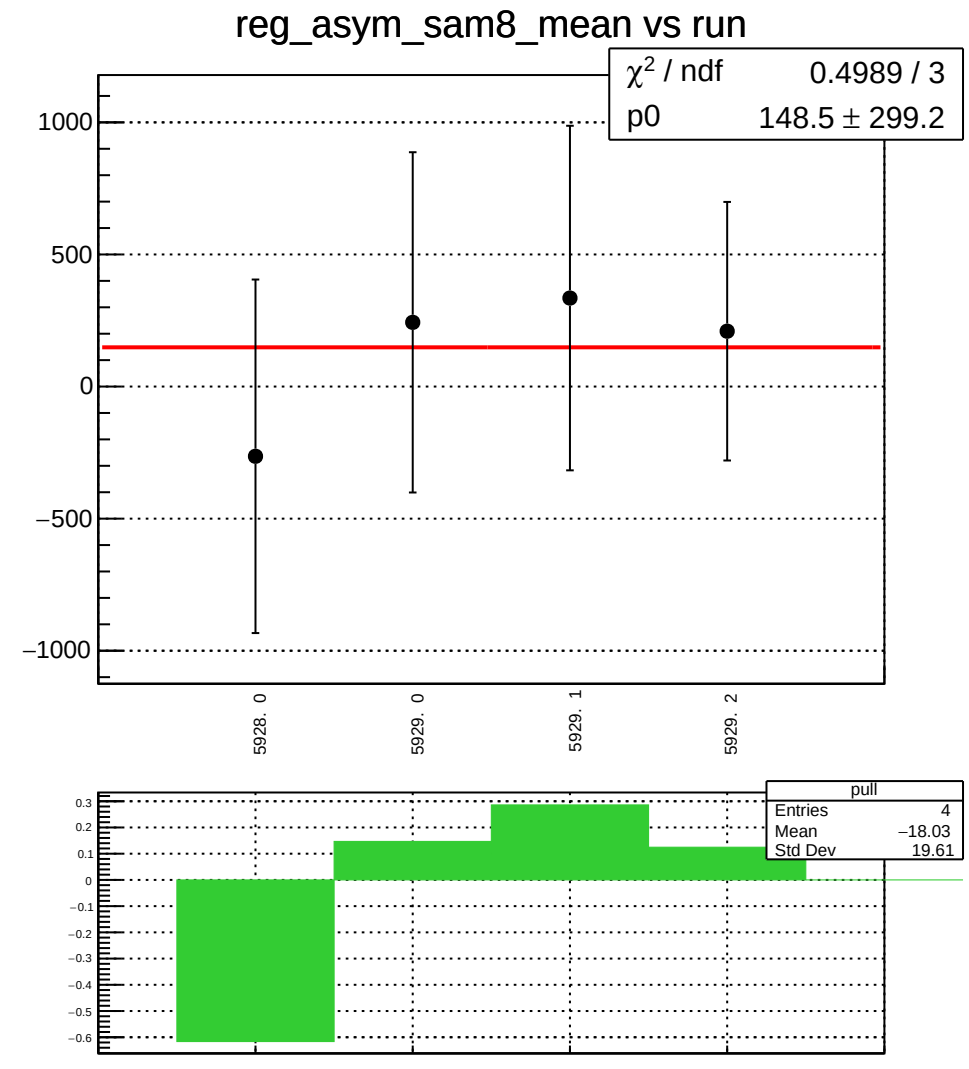

reg_asym_sam7_mean vs run
χ² / ndf 1.663 / 3
p0 −265.5 ± 314.7
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.234
Std Dev 7.356
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

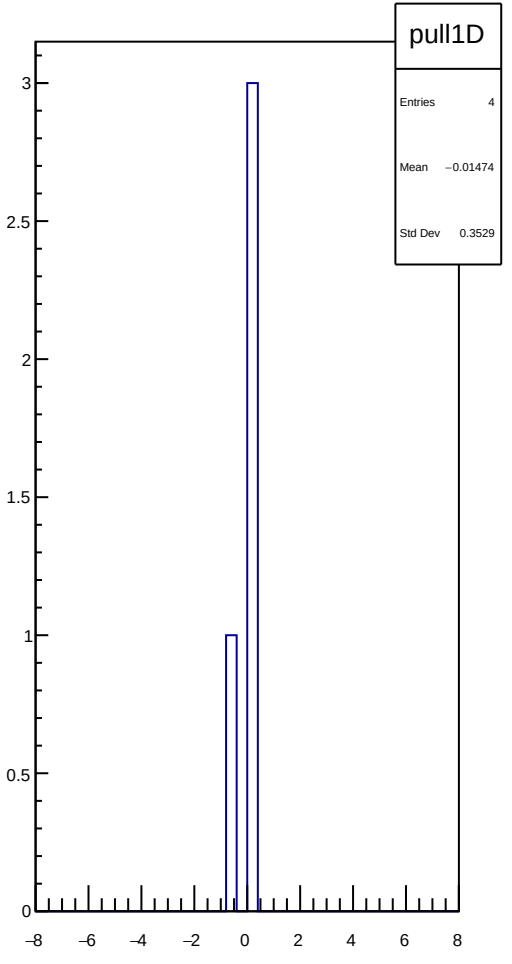

pull1D
Entries 4
Mean −0.02842
Std Dev 0.6441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

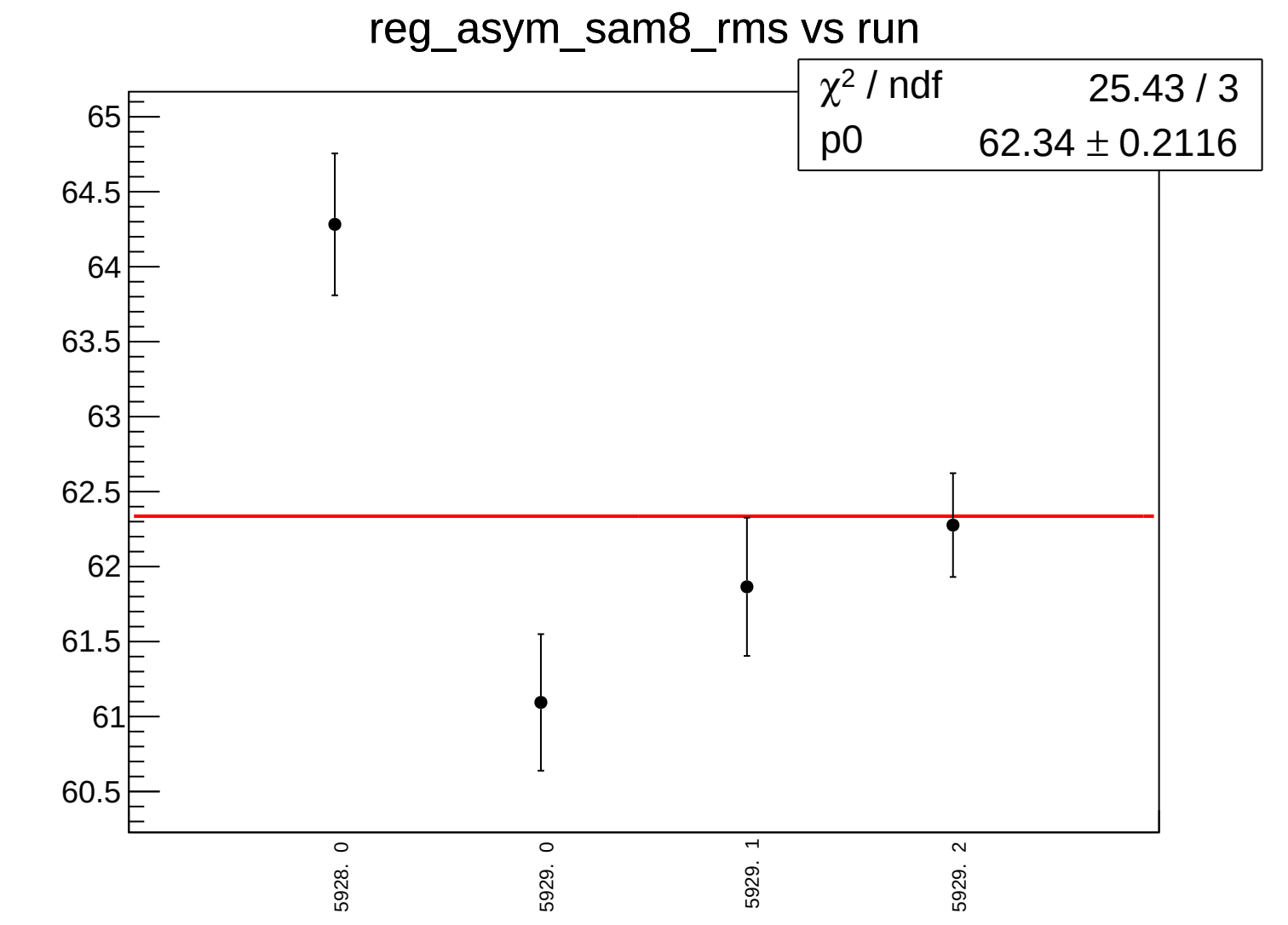

reg_asym_sam7_rms vs run
χ² / ndf 90.41 / 3
p0 65.55 ± 0.2225
71
70
69
68
67
66
65
64
63
5928. 0
5929. 0
5929. 1
5929. 2

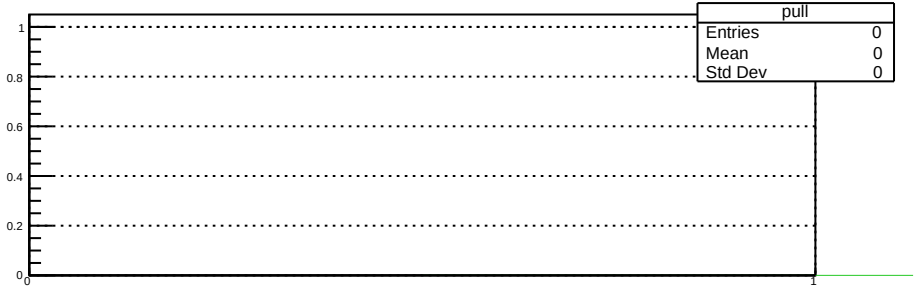

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

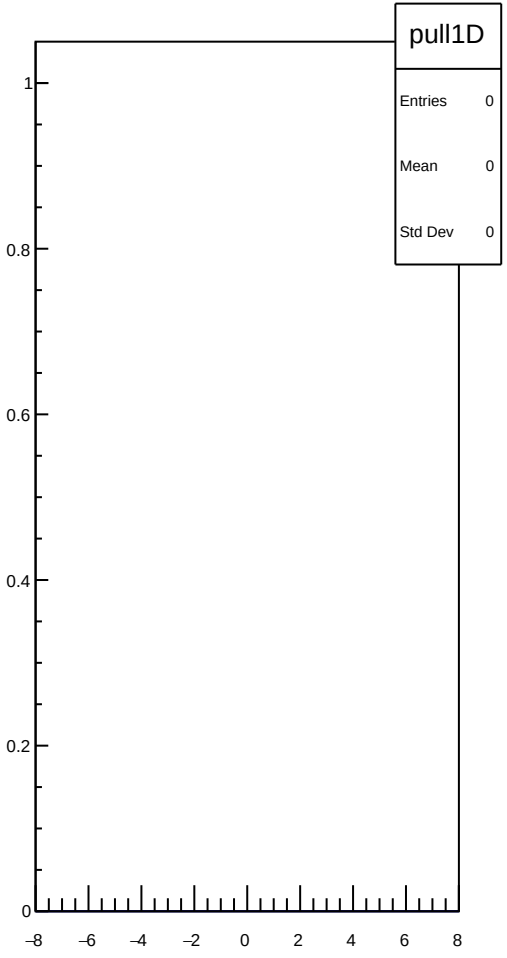

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

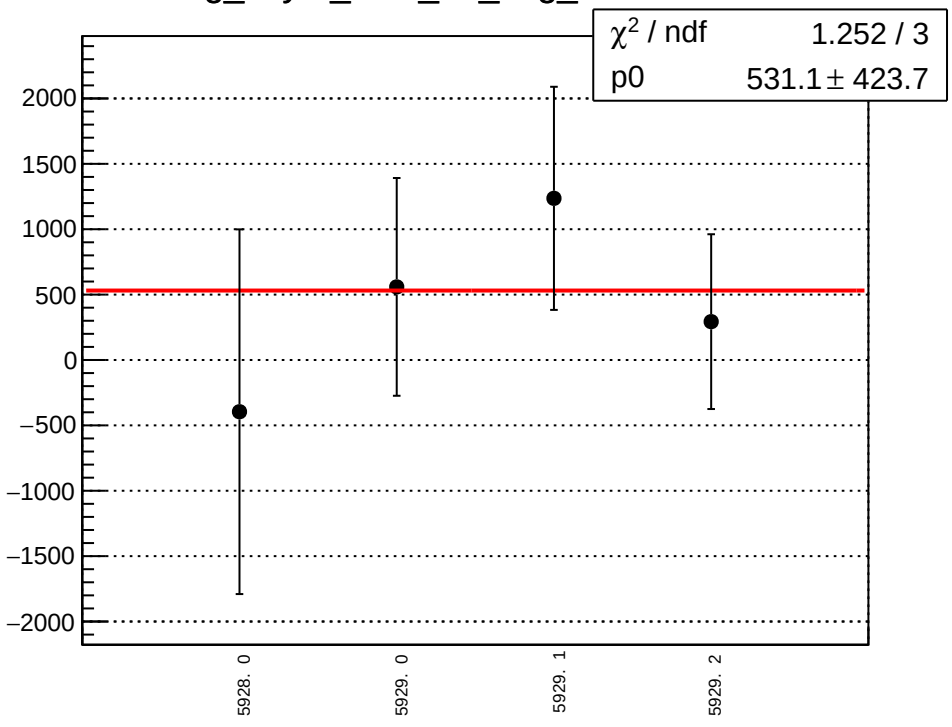

reg_asym_sam8_mean vs run
χ² / ndf 0.4989 / 3
p0 148.5 ± 299.2
1000
500
0
−500
−1000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −18.03
Std Dev 19.61
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

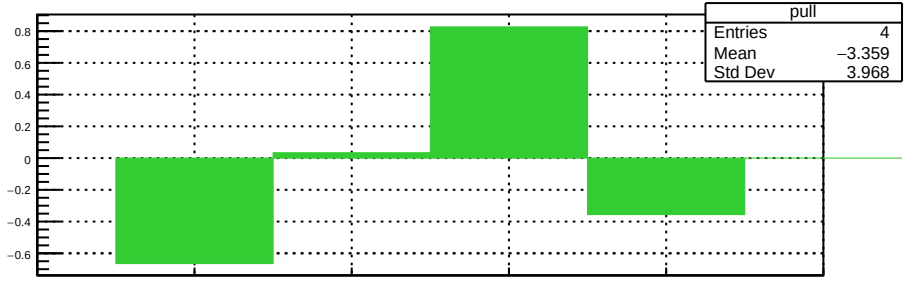

pull1D
Entries 4
Mean −0.01474
Std Dev 0.3529
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

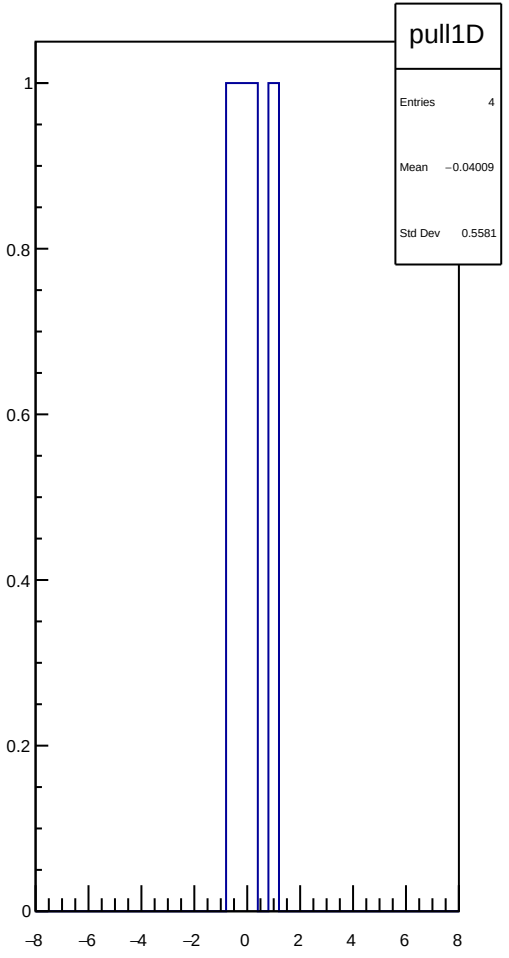

reg_asym_sam8_rms vs run
χ² / ndf 25.43 / 3
p0 62.34 ± 0.2116
65
64.5
64
63.5
63
62.5
62
61.5
61
60.5
5928. 0
5929. 0
5929. 1
5929. 2

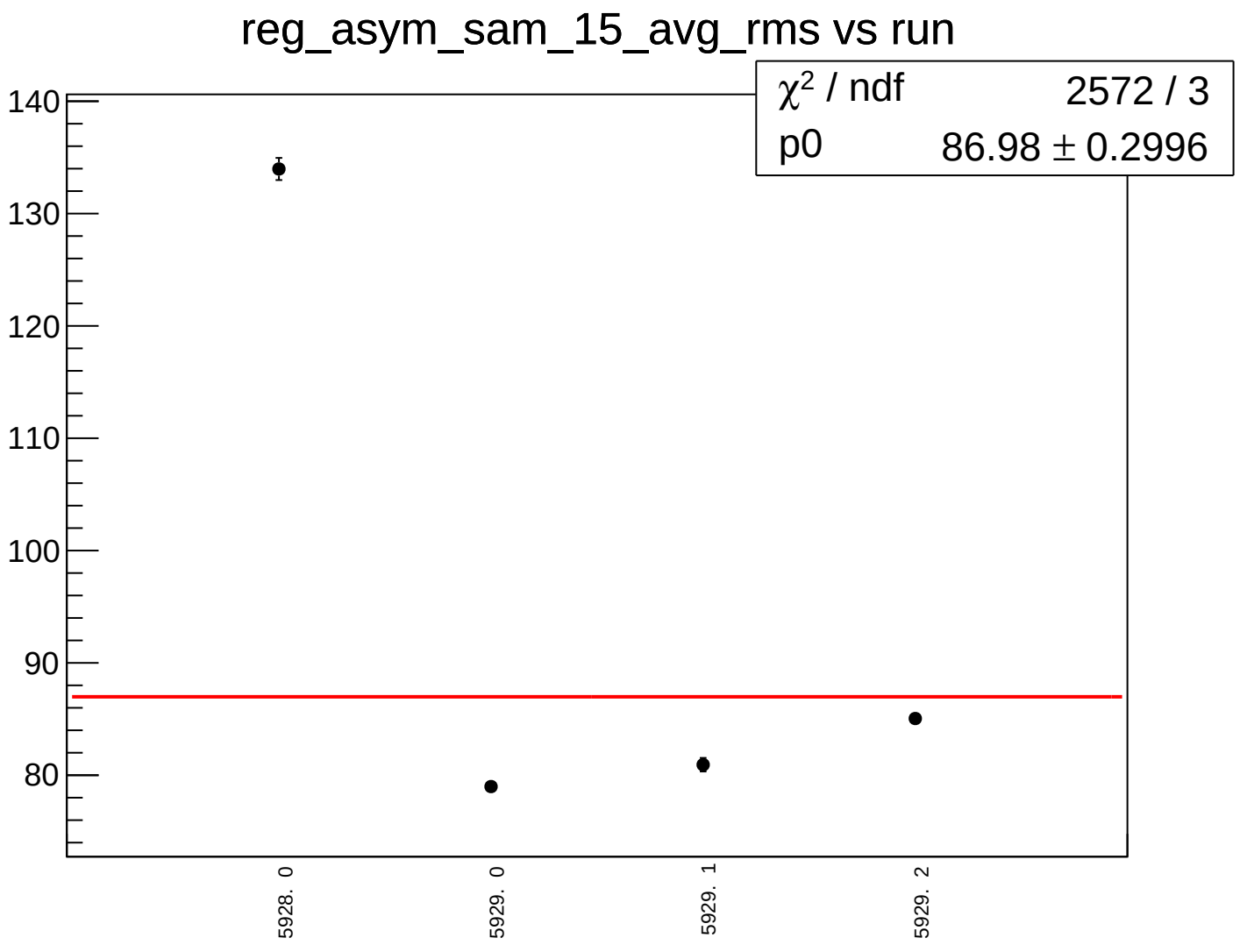

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

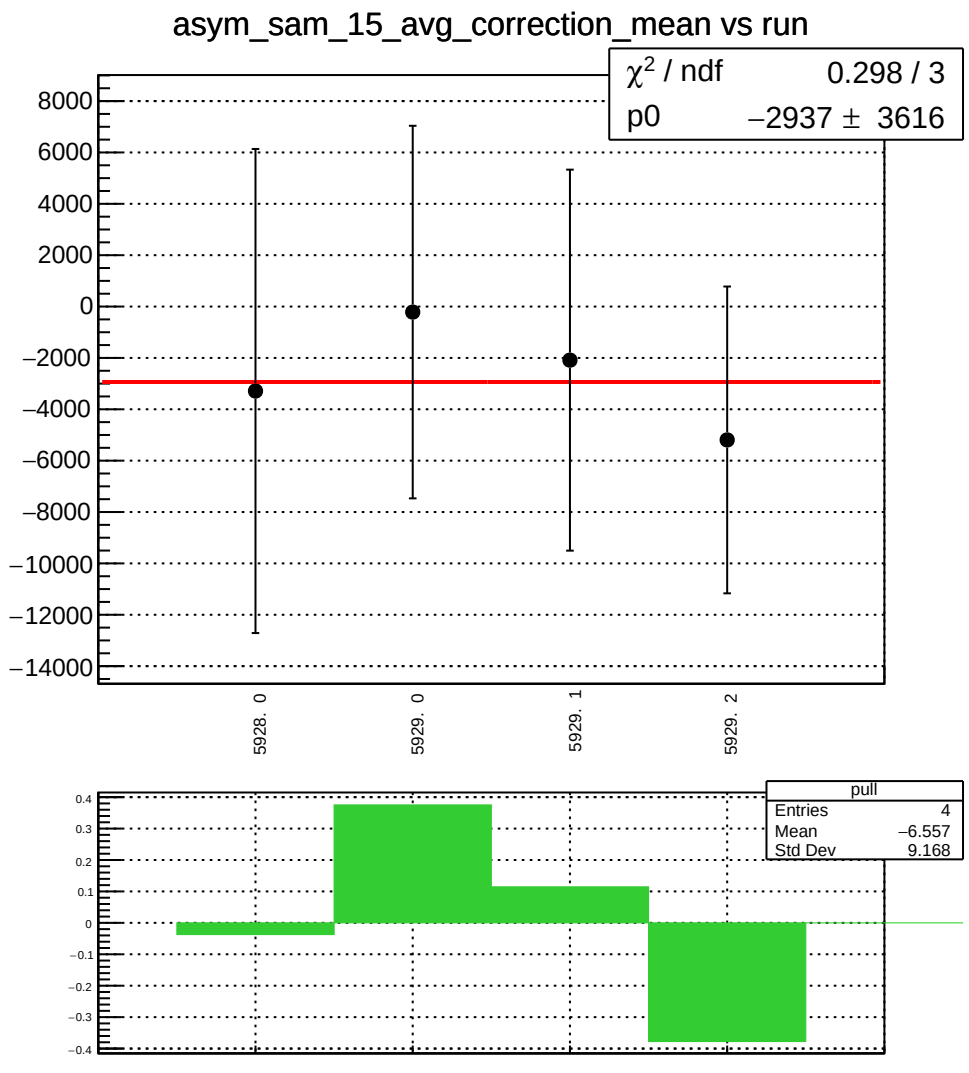

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

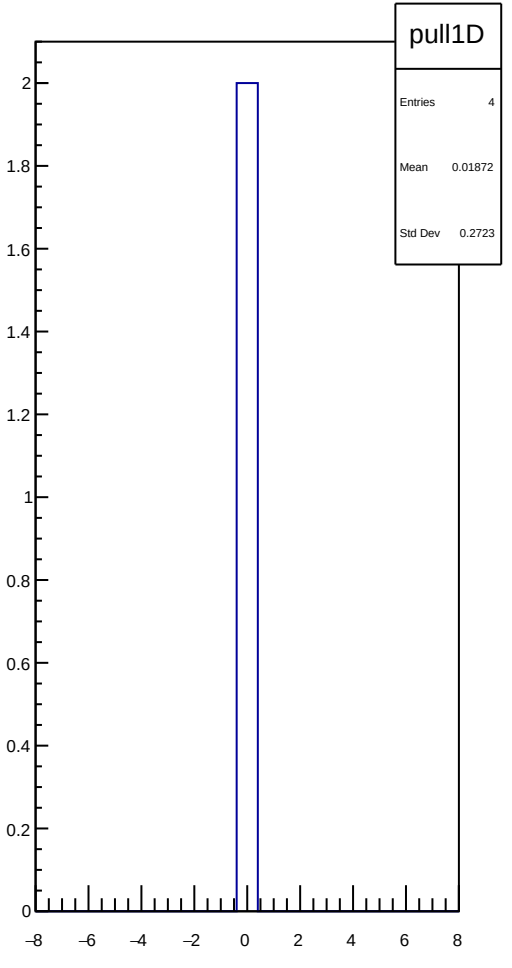

reg_asym_sam_15_avg_mean vs run
χ² / ndf 1.252 / 3
p0 531.1 ± 423.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5928. 0
5929. 0
5929. 1
5929. 2

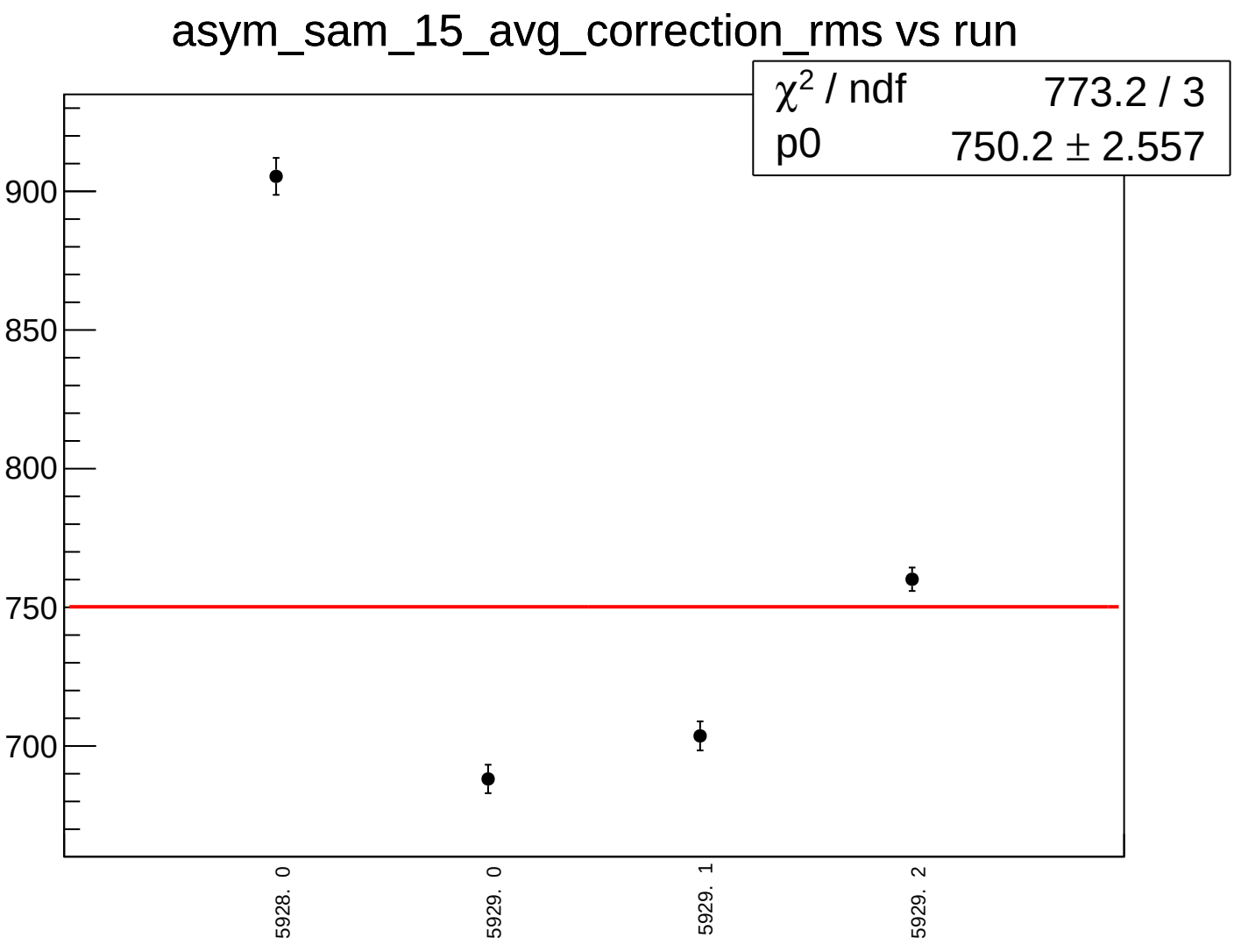

pull
Entries 4
Mean −3.359
Std Dev 3.968
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

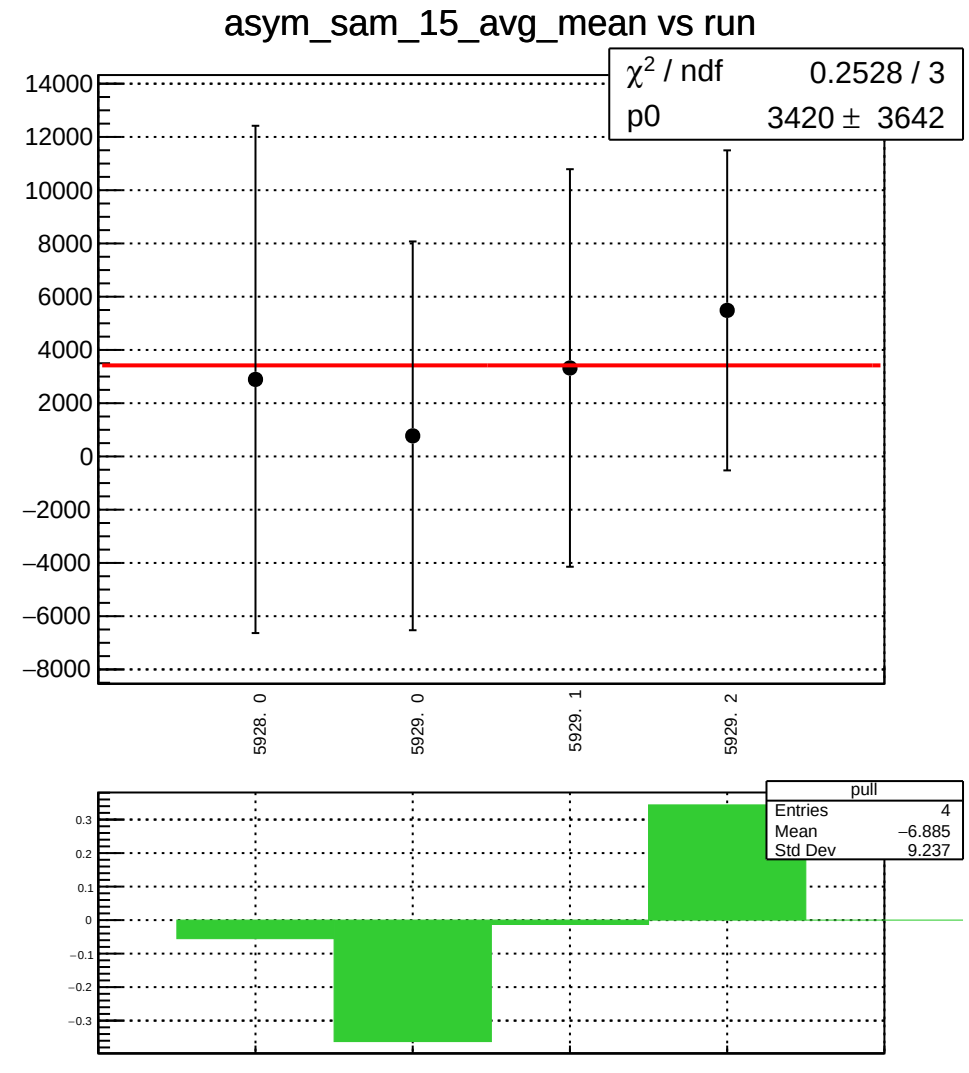

pull1D
Entries 4
Mean −0.04009
Std Dev 0.5581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

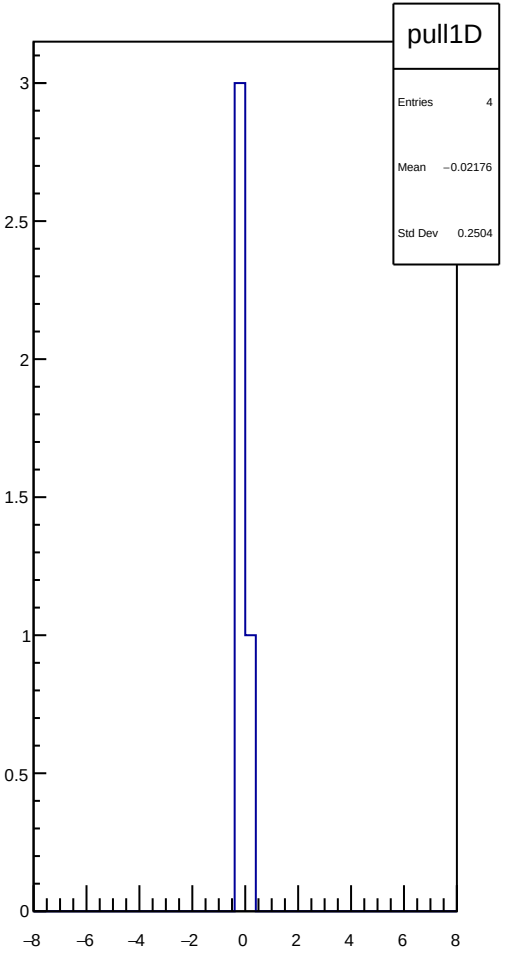

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2572 / 3
p0 86.98 ± 0.2996
140
130
120
110
100
90
80
5928. 0
5929. 0
5929. 1
5929. 2

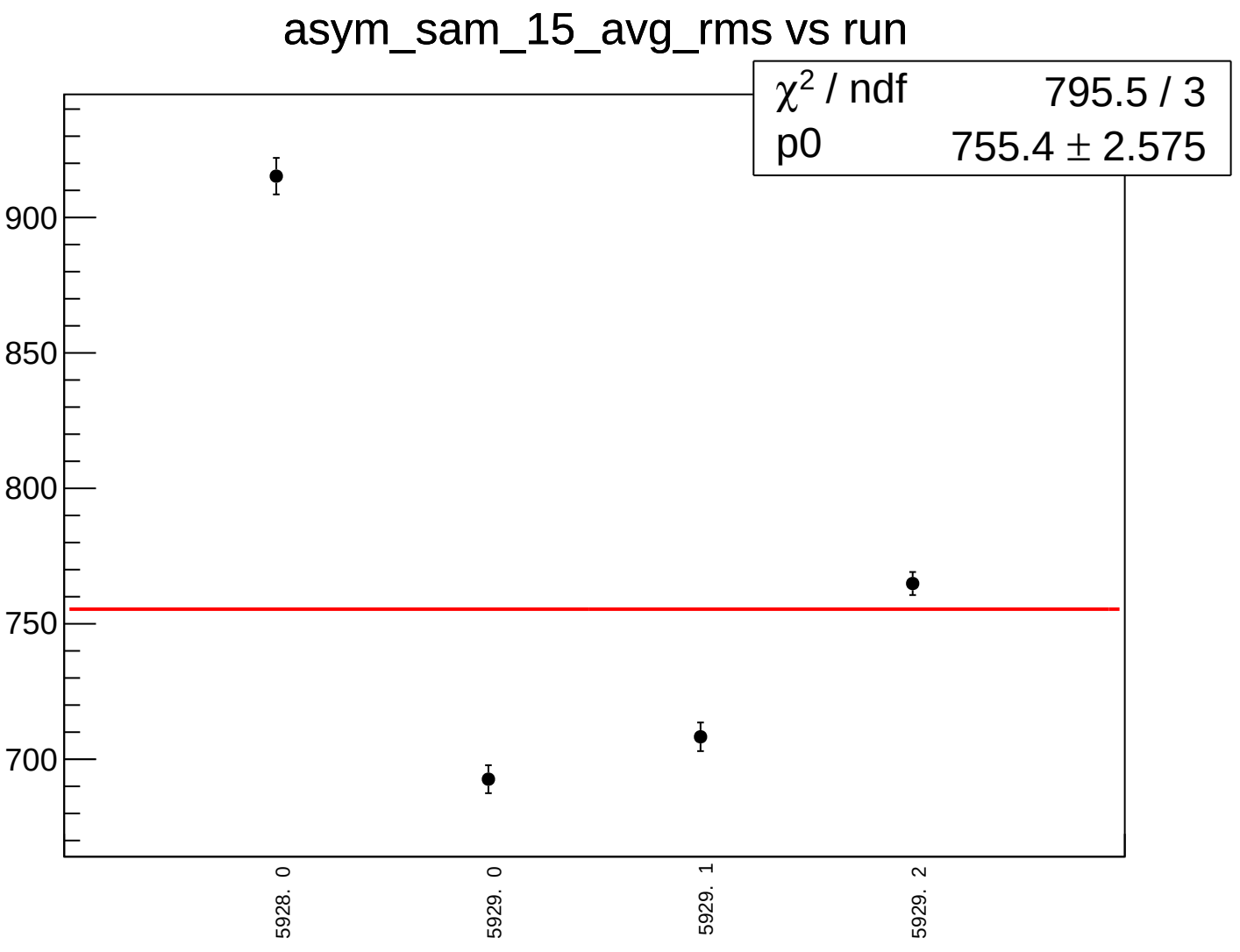

asym_sam_15_avg_correction_mean vs run
χ² / ndf 0.298 / 3
p0 −2937 ± 3616
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.557
Std Dev 9.168
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

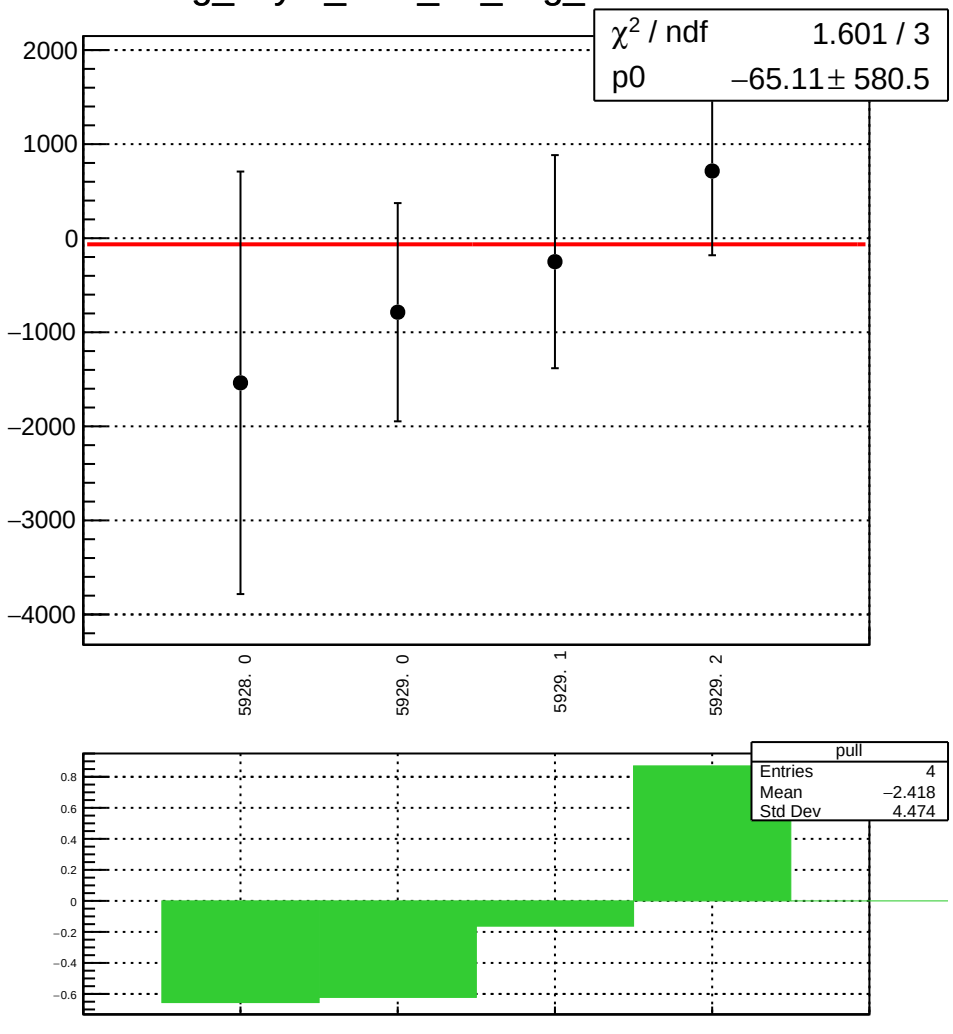

pull1D
Entries 4
Mean 0.01872
Std Dev 0.2723
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

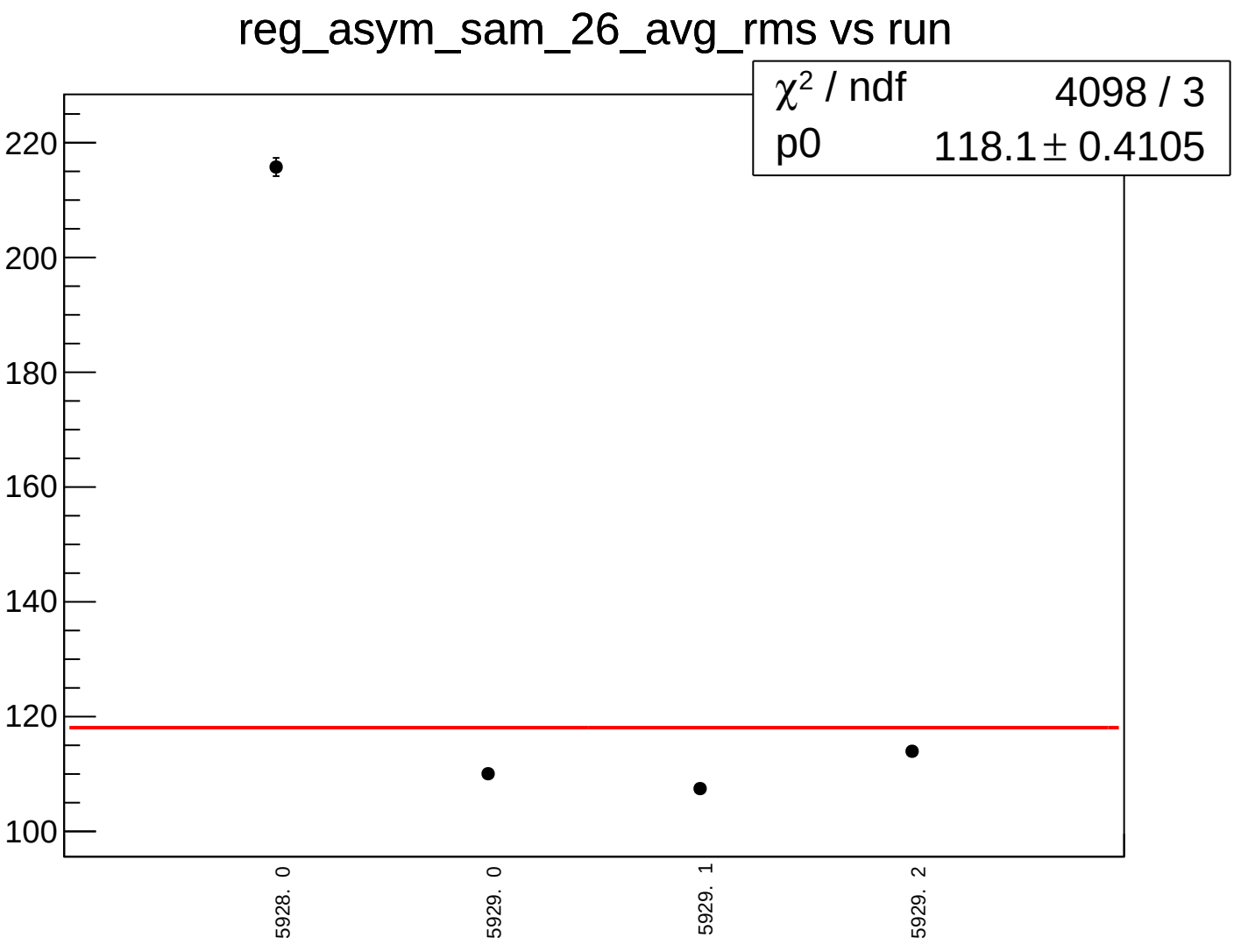

asym_sam_15_avg_correction_rms vs run
χ² / ndf 773.2 / 3
p0 750.2 ± 2.557
900
850
800
750
700
5928. 0
5929. 0
5929. 1
5929. 2

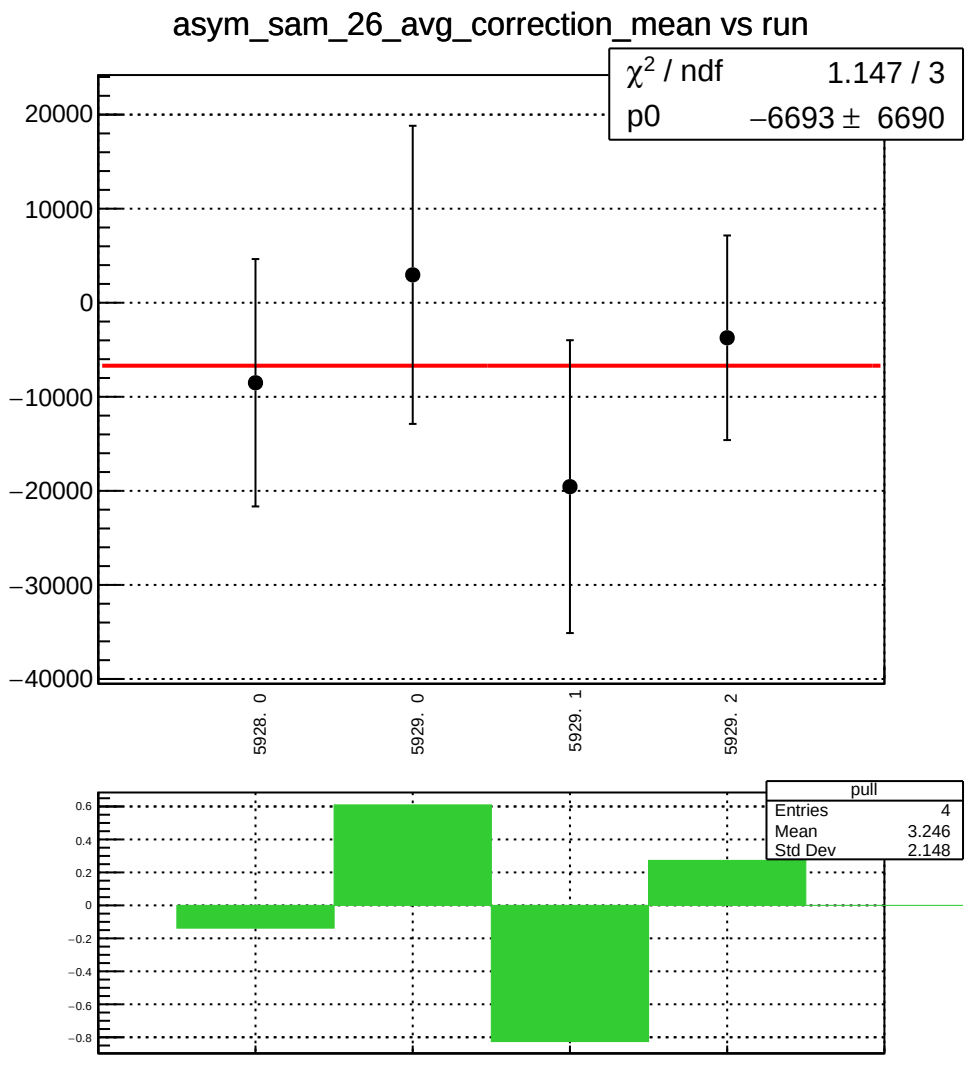

asym_sam_15_avg_mean vs run
χ² / ndf 0.2528 / 3
p0 3420 ± 3642
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.885
Std Dev 9.237
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

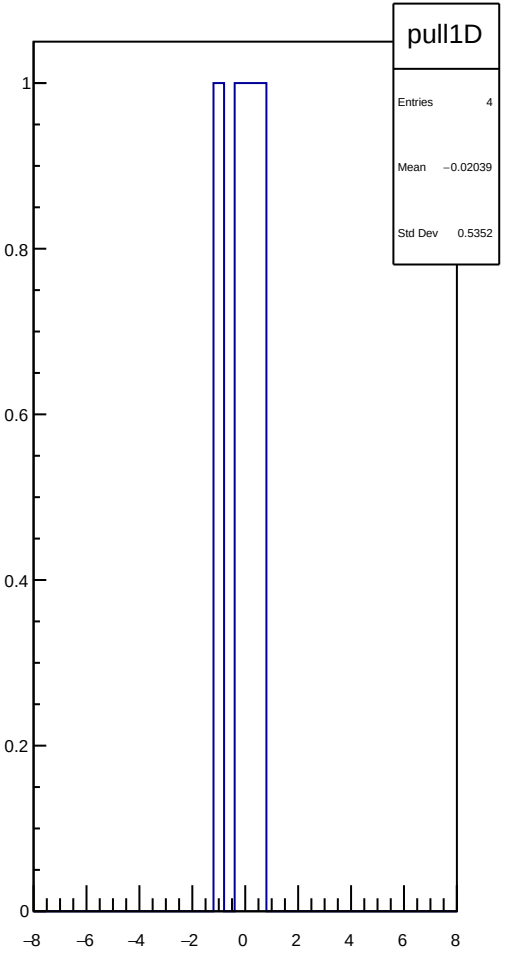

pull1D
Entries 4
Mean −0.02176
Std Dev 0.2504
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

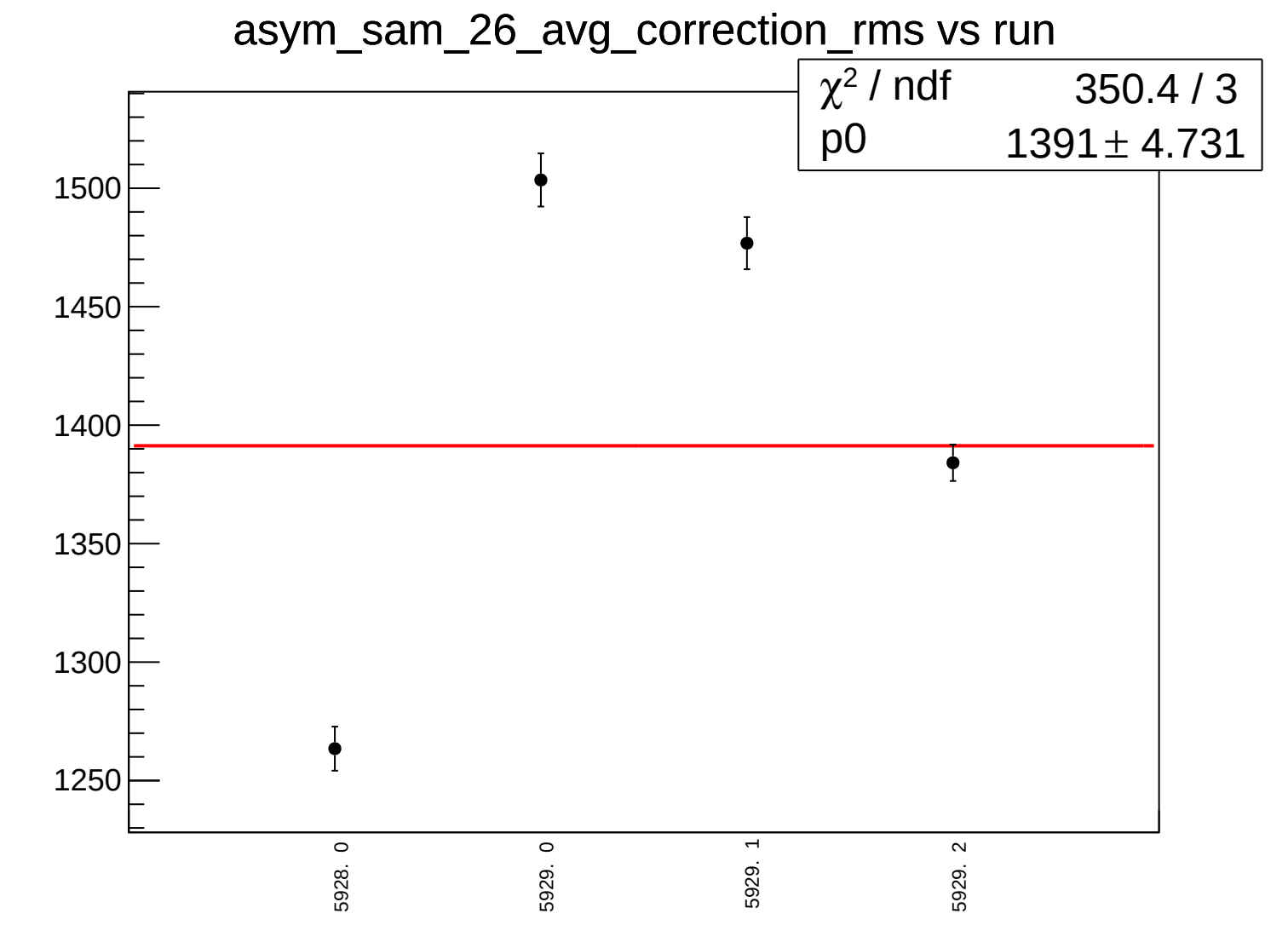

asym_sam_15_avg_rms vs run
χ² / ndf 795.5 / 3
p0 755.4 ± 2.575
900
850
800
750
700
5928. 0
5929. 0
5929. 1
5929. 2

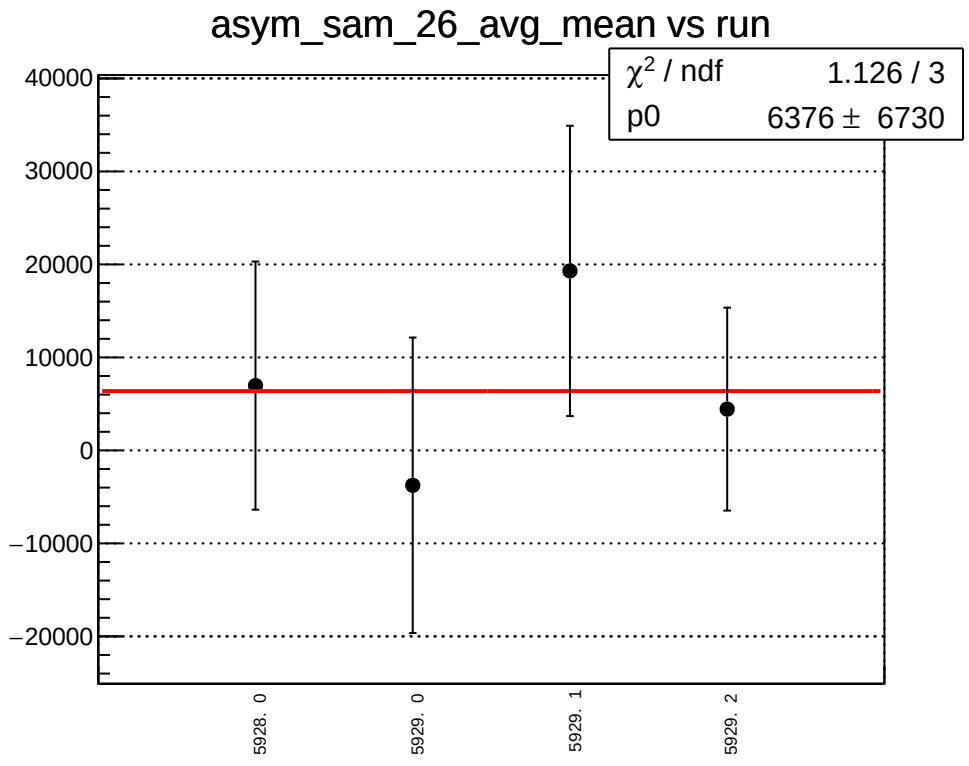

reg_asym_sam_26_avg_mean vs run
χ² / ndf 1.601 / 3
p0 −65.11 ± 580.5
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.418
Std Dev 4.474
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.1425
Std Dev 0.6163
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

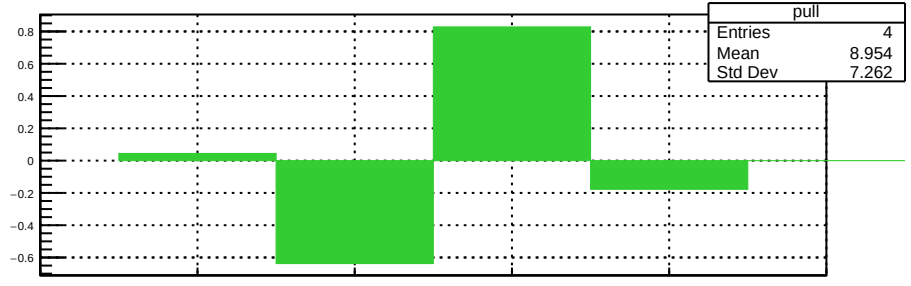

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4098 / 3
p0 118.1 ± 0.4105
220
200
180
160
140
120
100
5928. 0
5929. 0
5929. 1
5929. 2

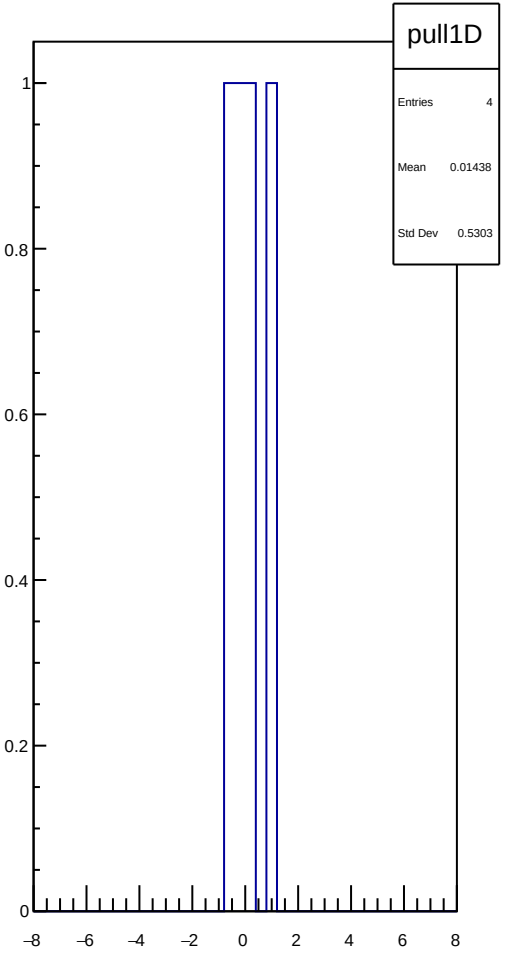

asym_sam_26_avg_correction_mean vs run
χ² / ndf 1.147 / 3
p0 −6693 ± 6690
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 3.246
Std Dev 2.148
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

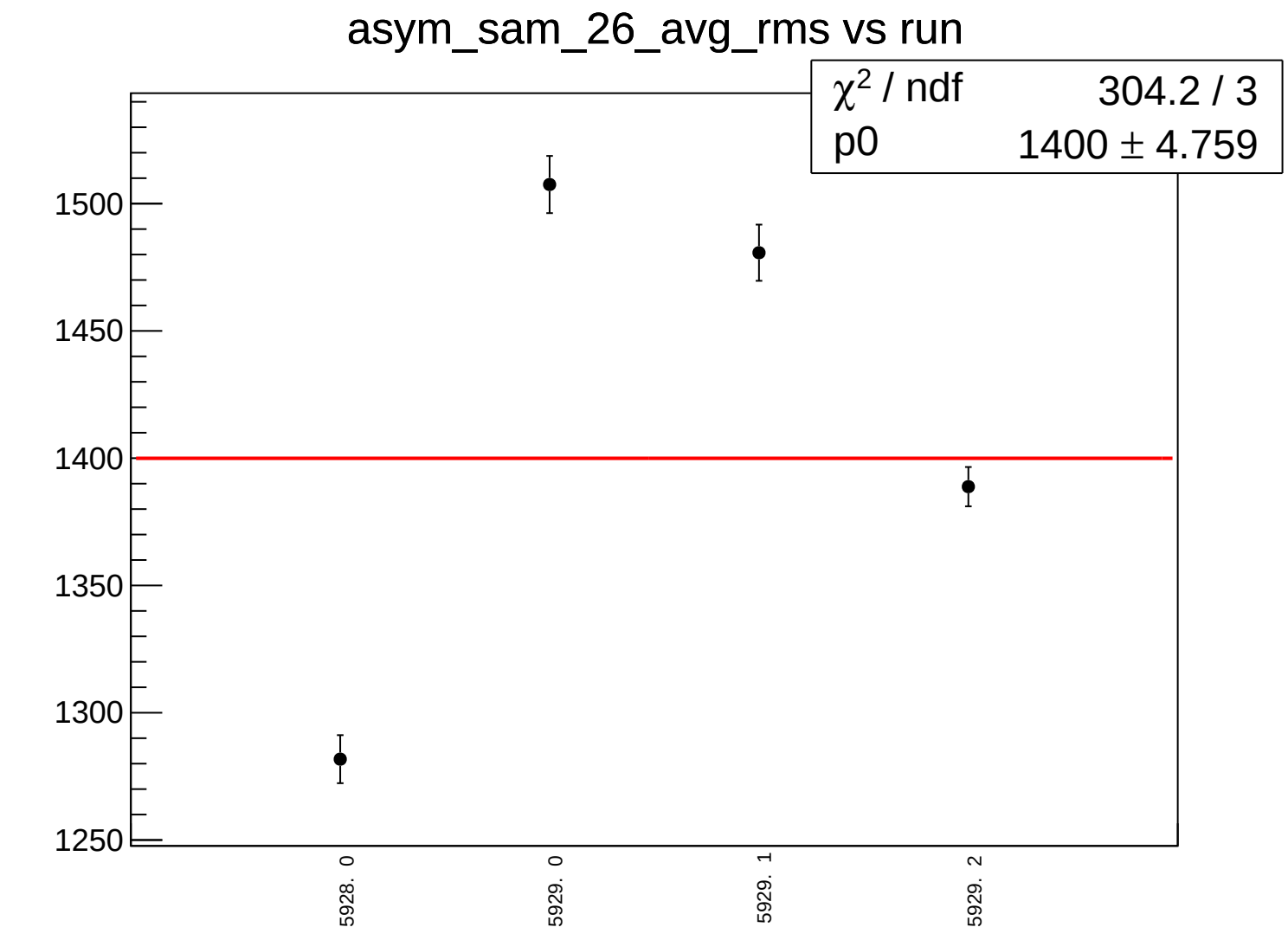

pull1D
Entries 4
Mean −0.02039
Std Dev 0.5352
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

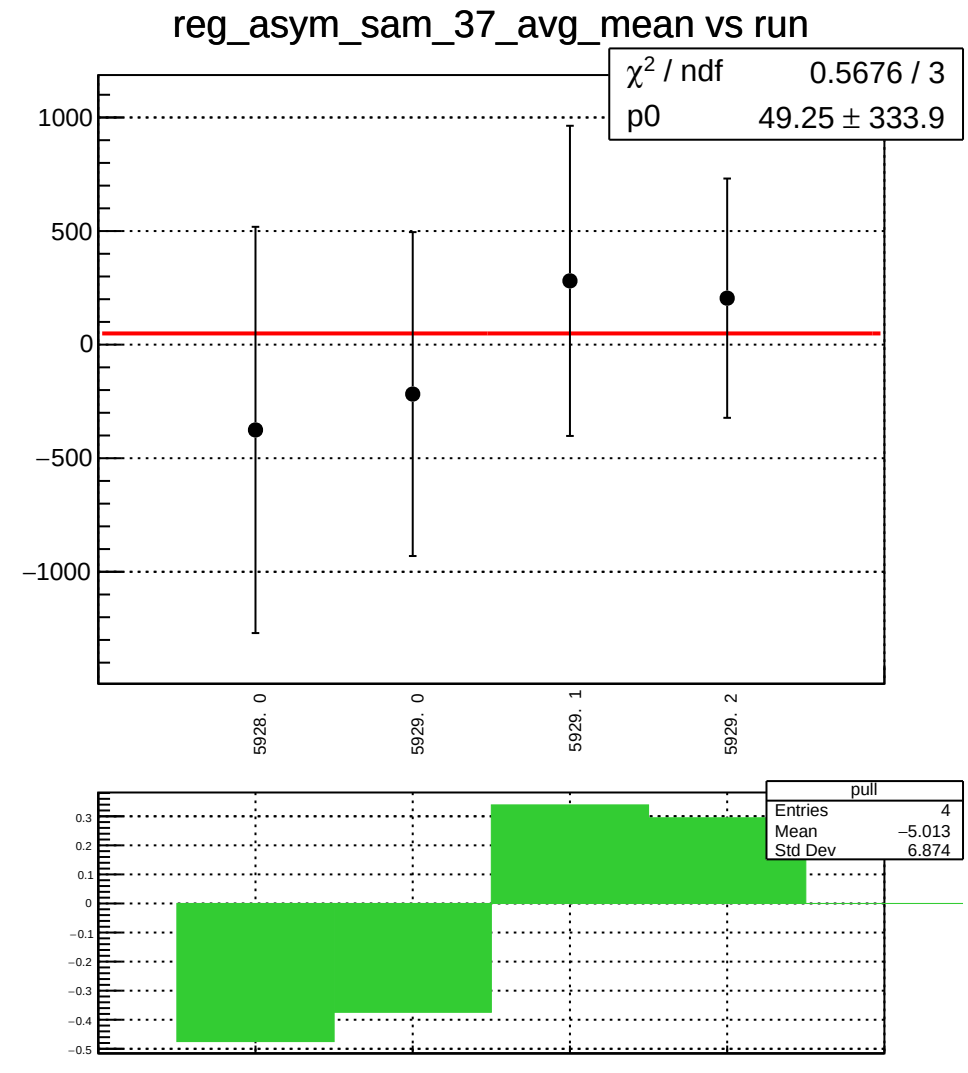

asym_sam_26_avg_correction_rms vs run
χ² / ndf 350.4 / 3
p0 1391 ± 4.731
1500
1450
1400
1350
1300
1250
5928. 0
5929. 0
5929. 1
5929. 2

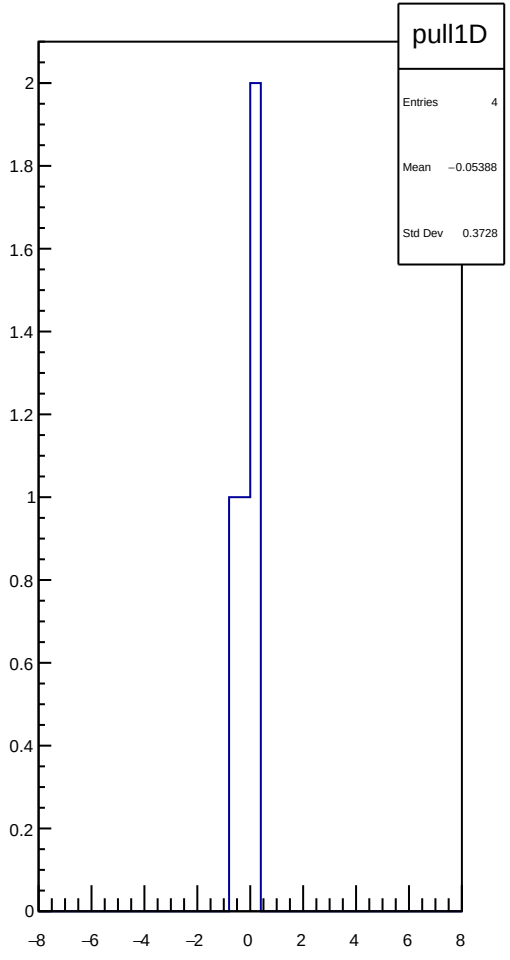

asym_sam_26_avg_mean vs run
χ² / ndf 1.126 / 3
p0 6376 ± 6730
40000
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2

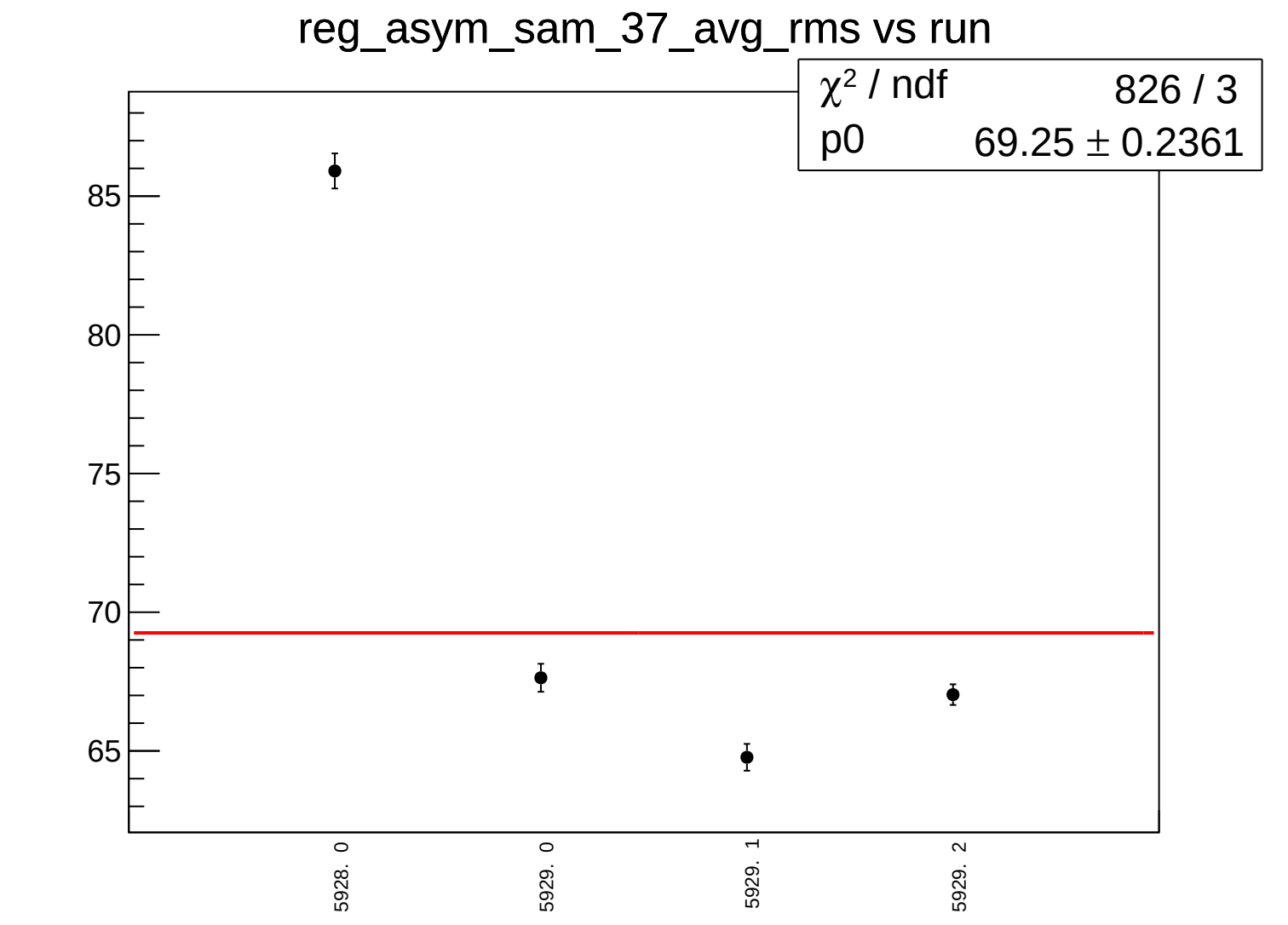

pull
Entries 4
Mean 8.954
Std Dev 7.262
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

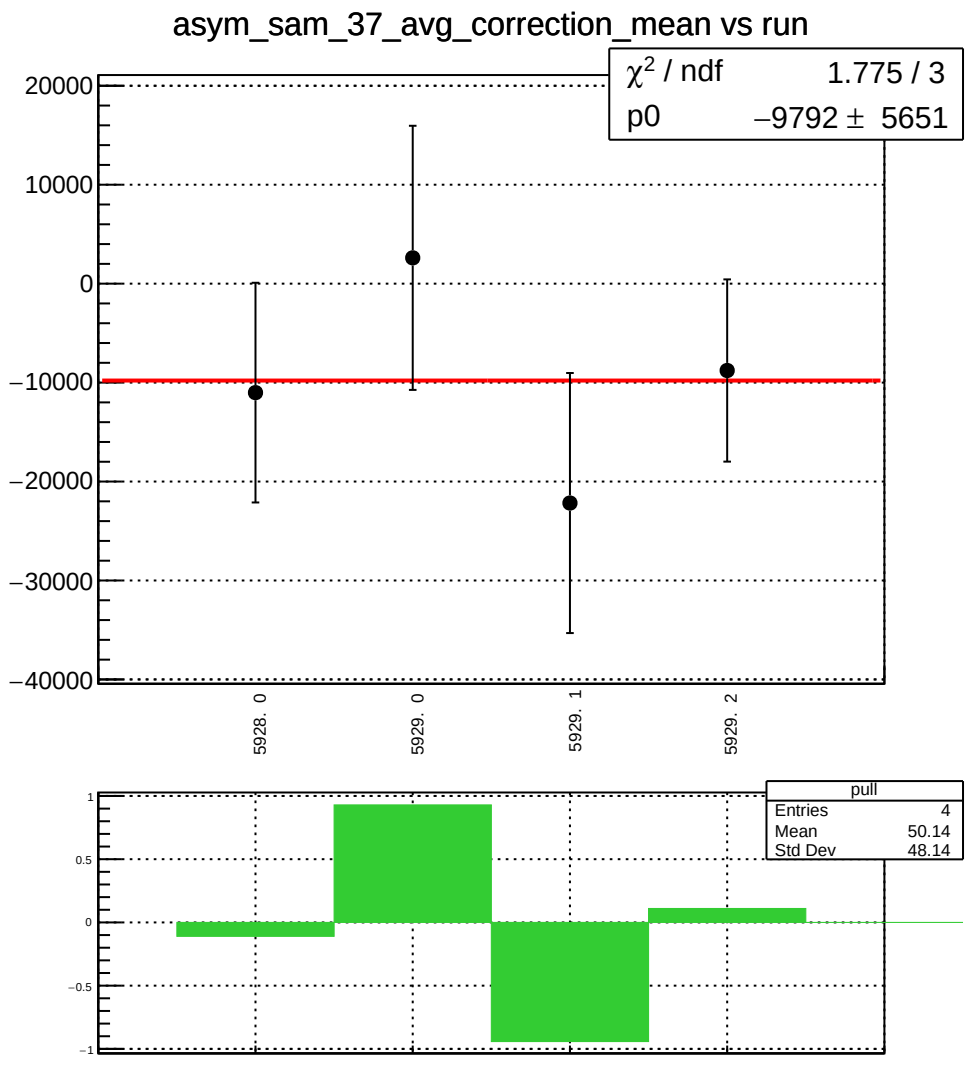

pull1D
Entries 4
Mean 0.01438
Std Dev 0.5303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

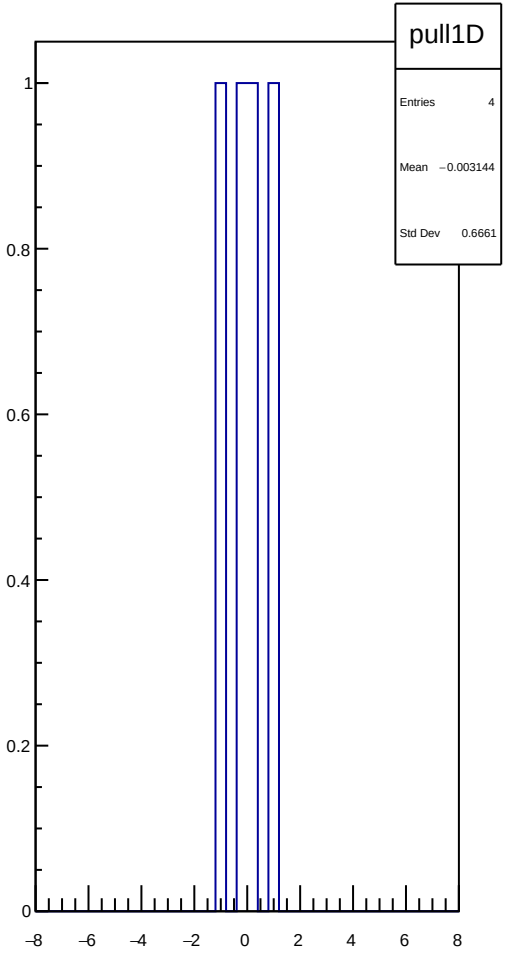

asym_sam_26_avg_rms vs run
χ² / ndf 304.2 / 3
p0 1400 ± 4.759
1500
1450
1400
1350
1300
1250
5928. 0
5929. 0
5929. 1
5929. 2

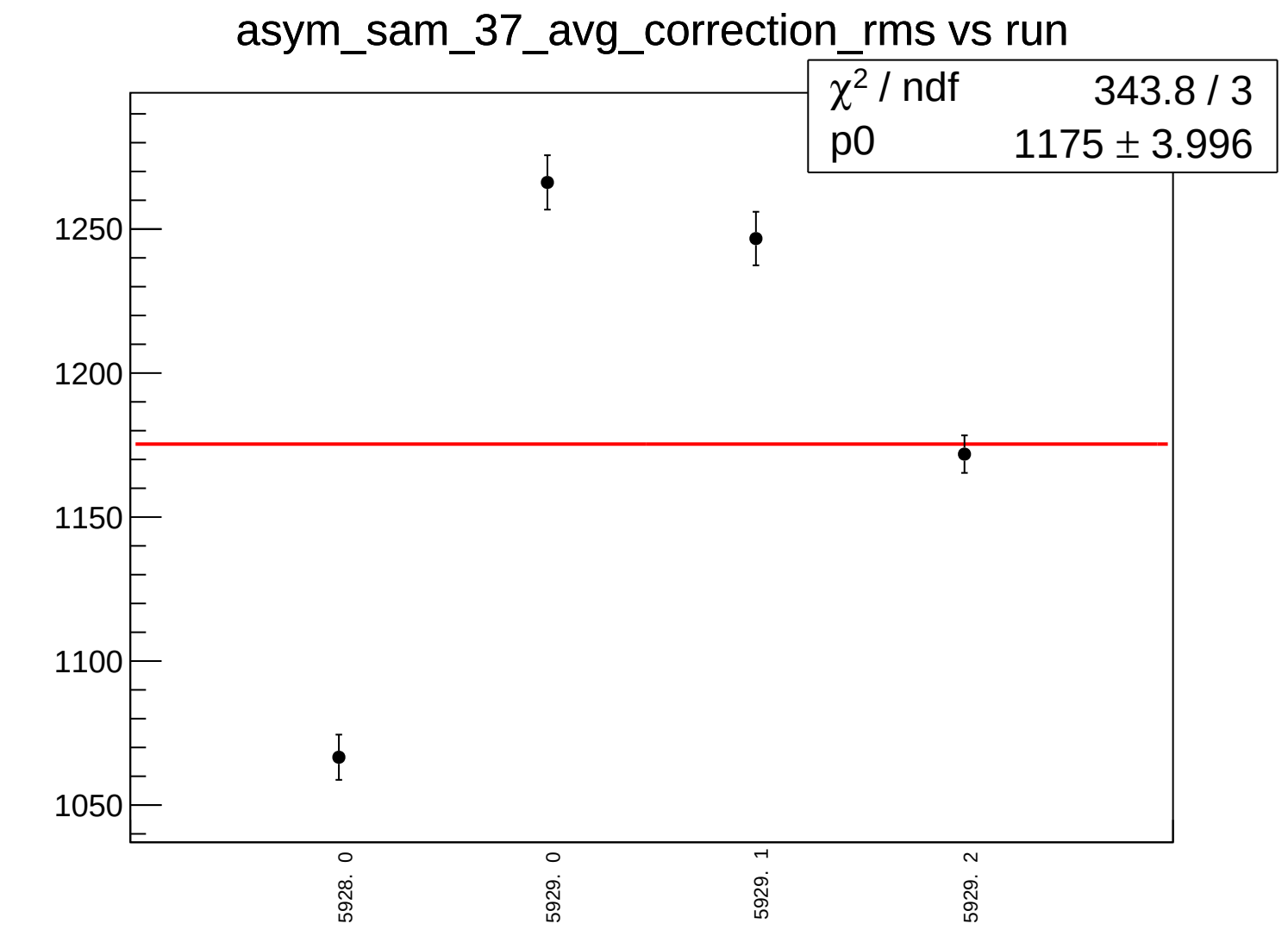

reg_asym_sam_37_avg_mean vs run
χ² / ndf 0.5676 / 3
p0 49.25 ± 333.9
1000
500
0
−500
−1000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.013
Std Dev 6.874
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

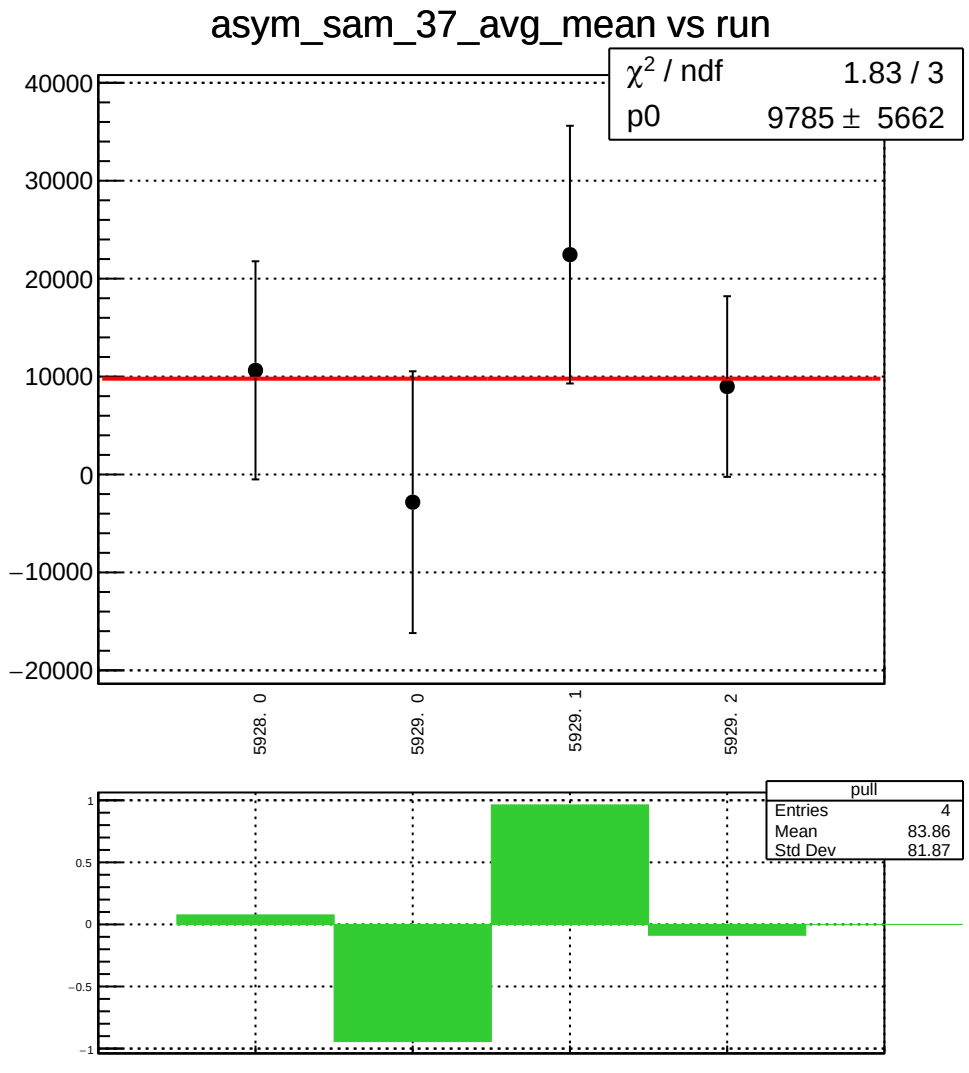

pull1D
Entries 4
Mean −0.05388
Std Dev 0.3728
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

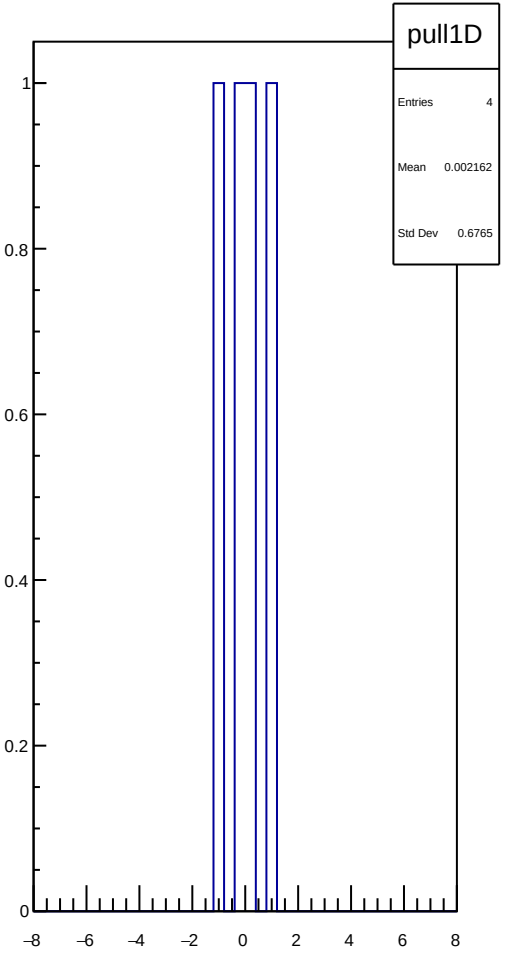

reg_asym_sam_37_avg_rms vs run
χ² / ndf 826 / 3
p0 69.25 ± 0.2361
85
80
75
70
65
5928. 0
5929. 0
5929. 1
5929. 2

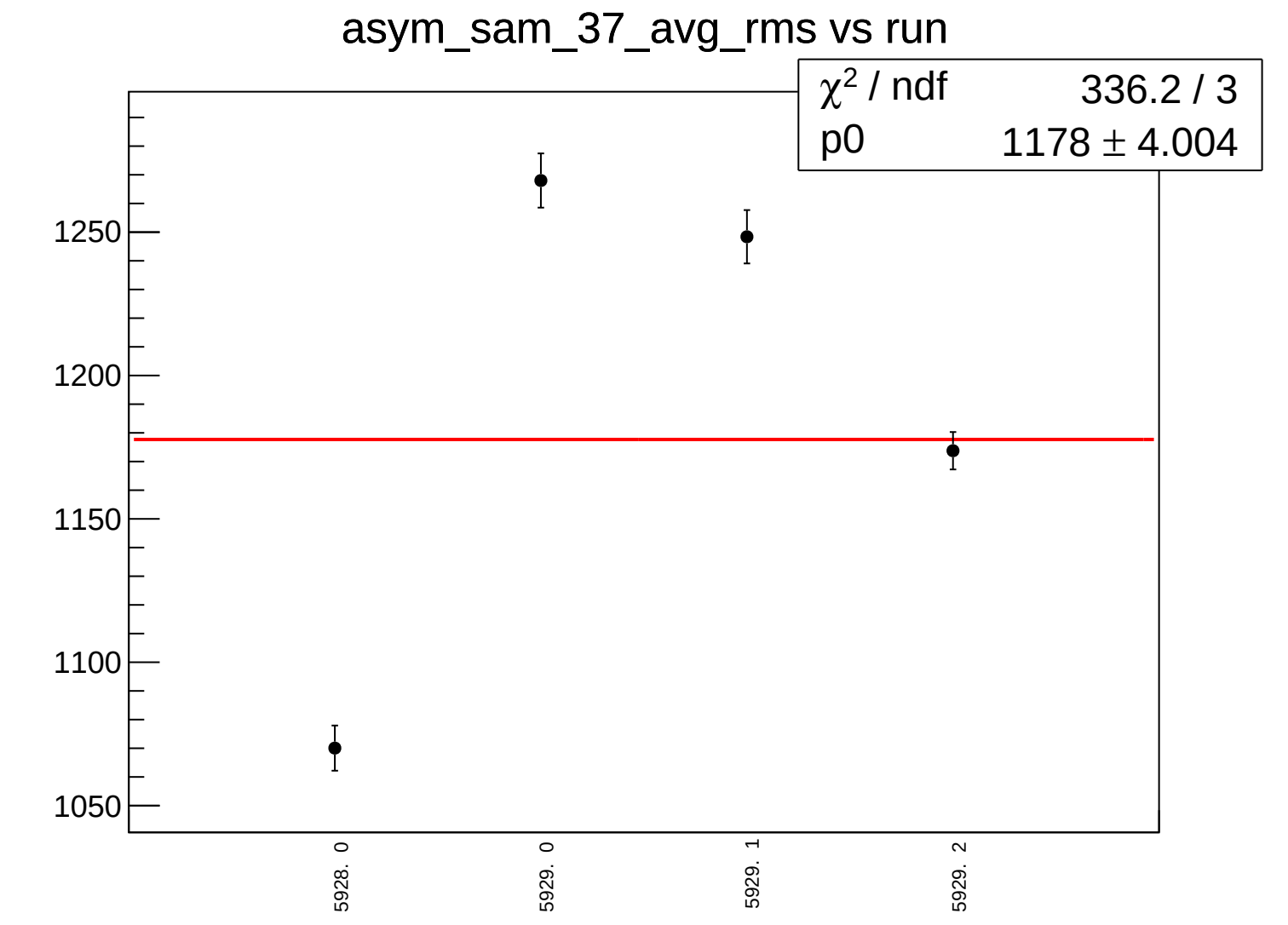

asym_sam_37_avg_correction_mean vs run
χ² / ndf 1.775 / 3
p0 −9792 ± 5651
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 50.14
Std Dev 48.14
1
0.5
0
−0.5
−1

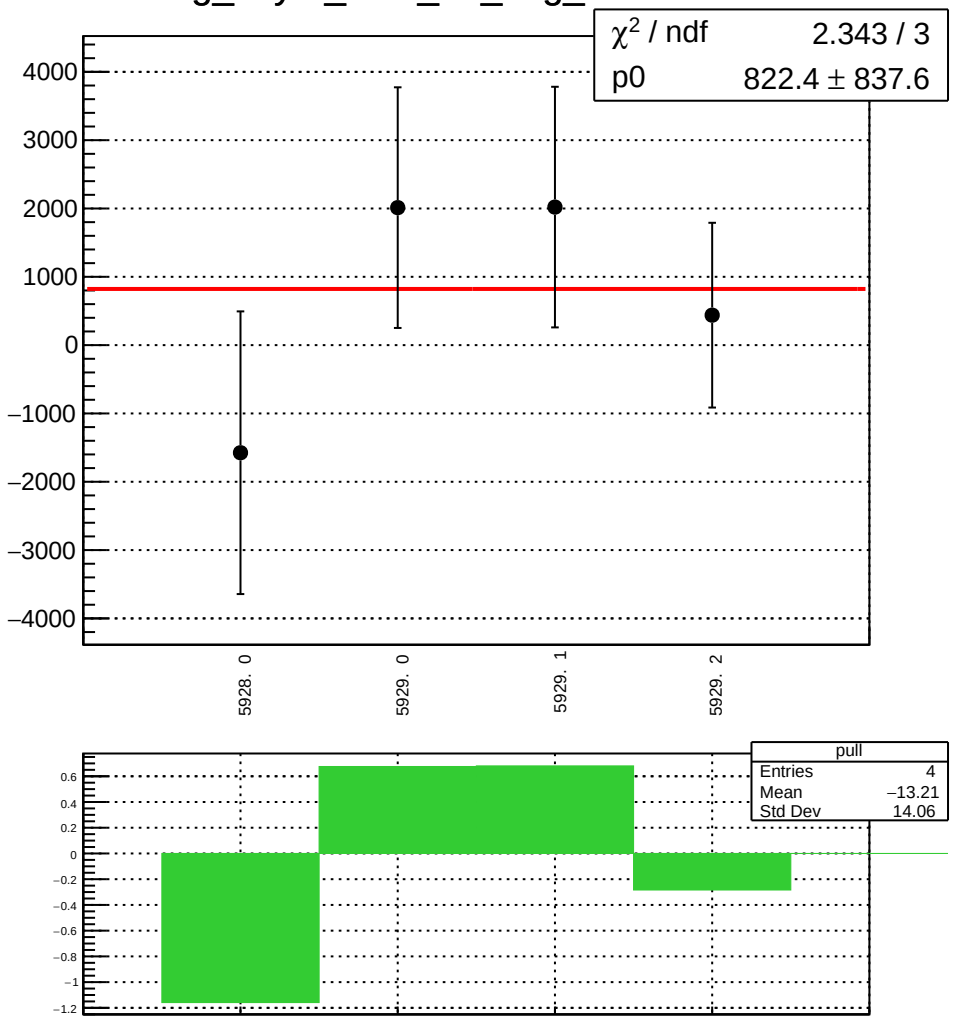

pull1D
Entries 4
Mean −0.003144
Std Dev 0.6661
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

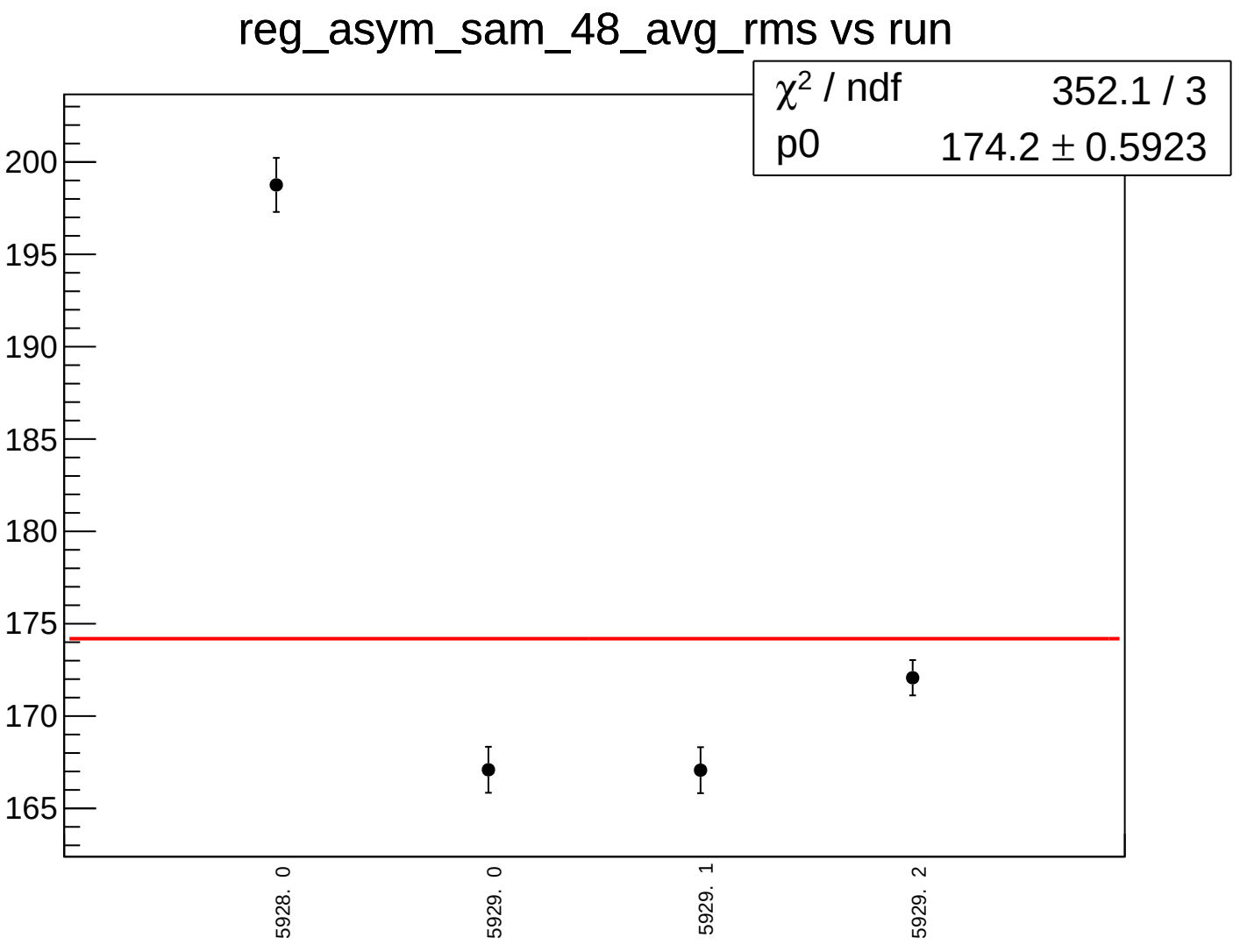

asym_sam_37_avg_correction_rms vs run
χ² / ndf 343.8 / 3
p0 1175 ± 3.996
1250
1200
1150
1100
1050
5928. 0
5929. 0
5929. 1
5929. 2

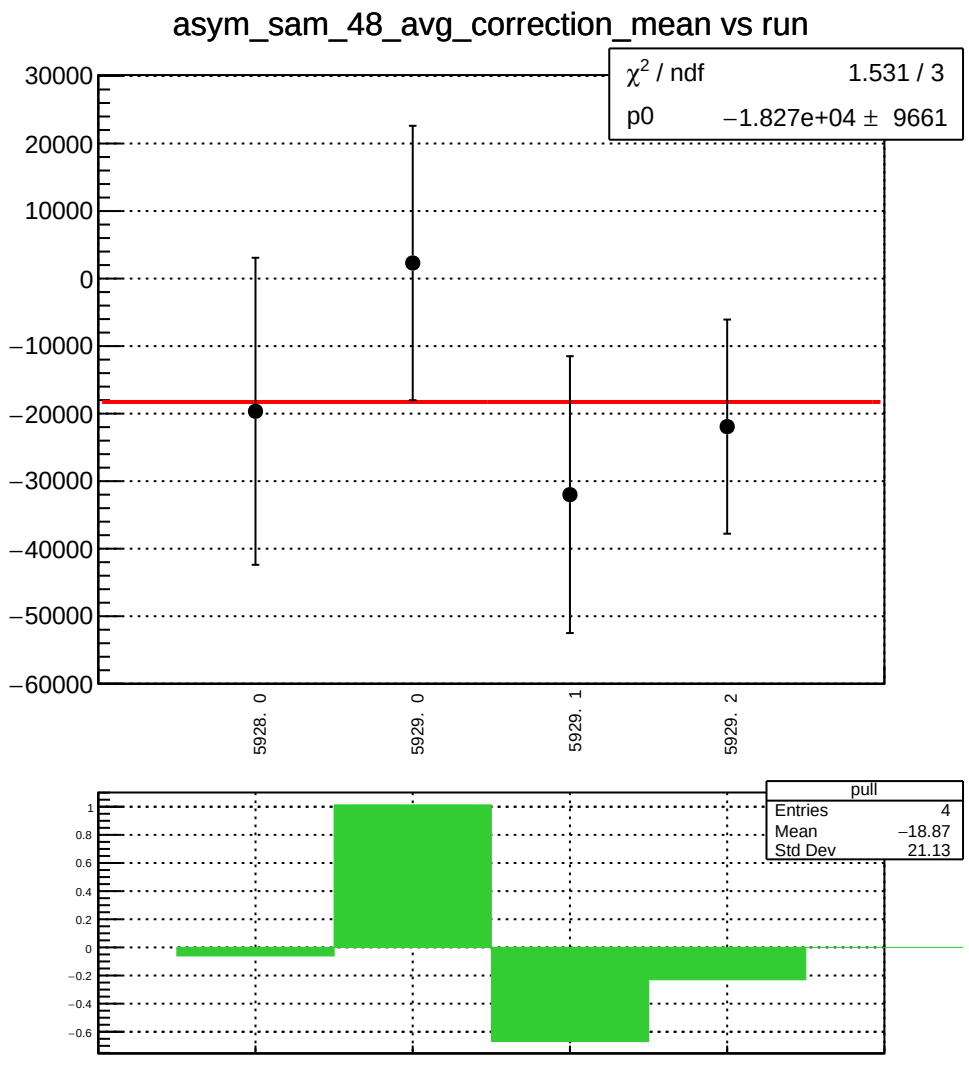

asym_sam_37_avg_mean vs run
χ² / ndf 1.83 / 3
p0 9785 ± 5662
40000
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 83.86
Std Dev 81.87
1
0.5
0
−0.5
−1

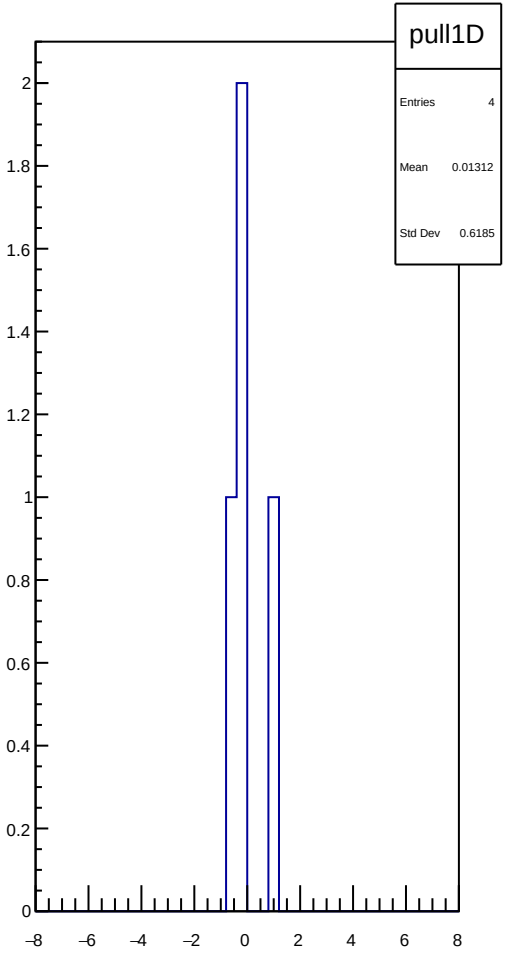

pull1D
Entries 4
Mean 0.002162
Std Dev 0.6765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

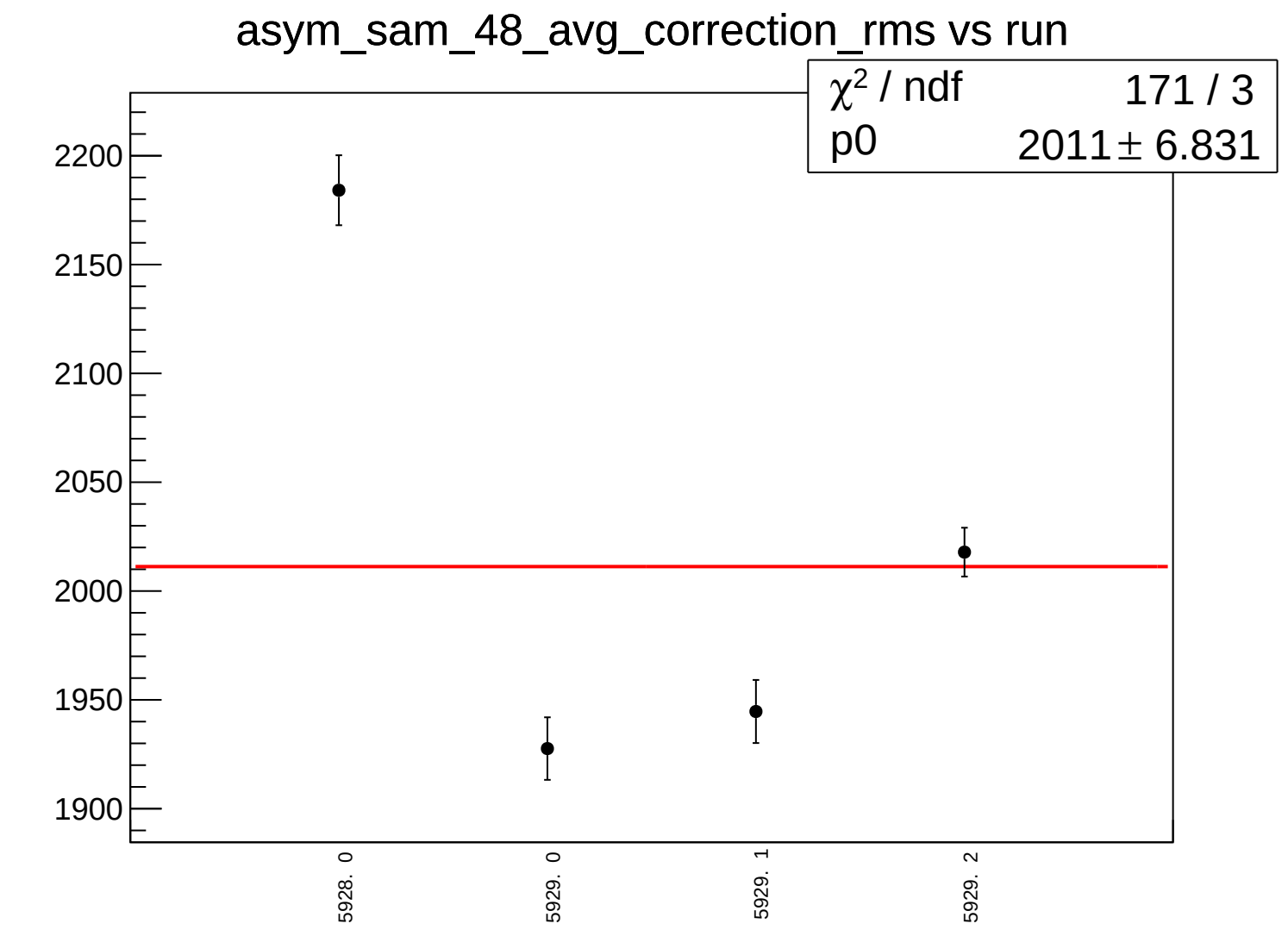

asym_sam_37_avg_rms vs run
χ² / ndf 336.2 / 3
p0 1178 ± 4.004
1250
1200
1150
1100
1050
5928. 0
5929. 0
5929. 1
5929. 2

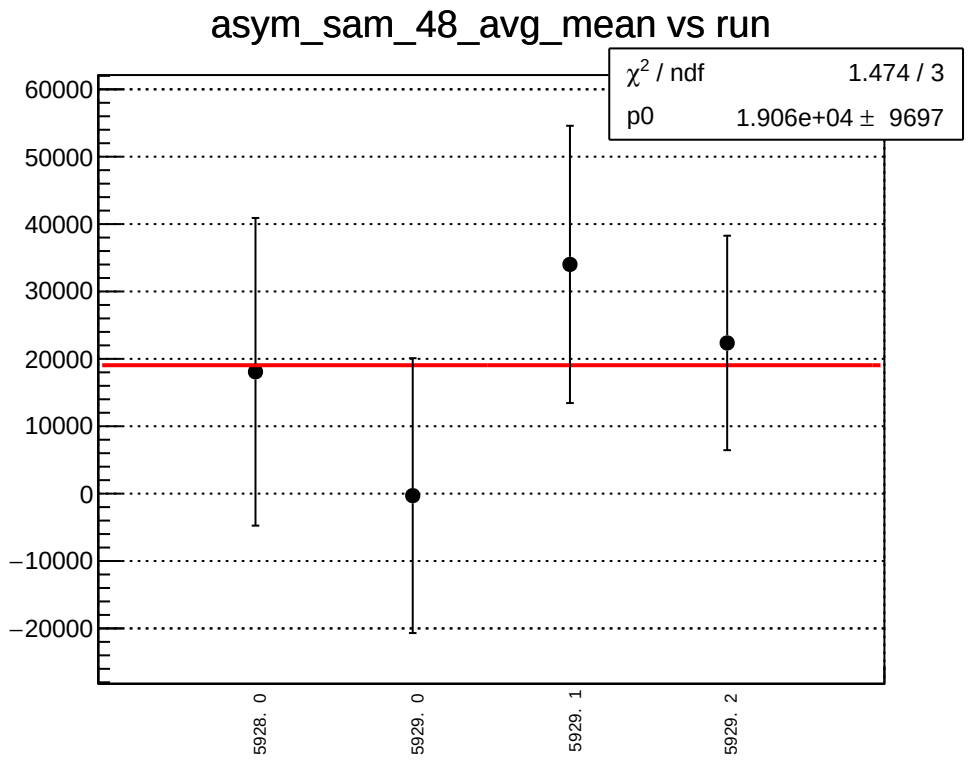

reg_asym_sam_48_avg_mean vs run
χ² / ndf 2.343 / 3
p0 822.4 ± 837.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.21
Std Dev 14.06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.02161
Std Dev 0.765
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

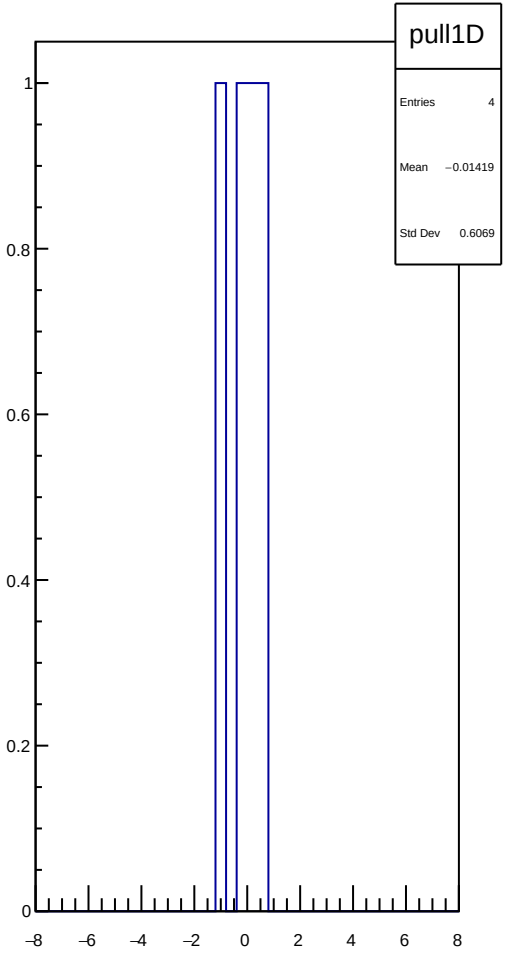

reg_asym_sam_48_avg_rms vs run
χ² / ndf 352.1 / 3
p0 174.2 ± 0.5923
200
195
190
185
180
175
170
165
5928. 0
5929. 0
5929. 1
5929. 2

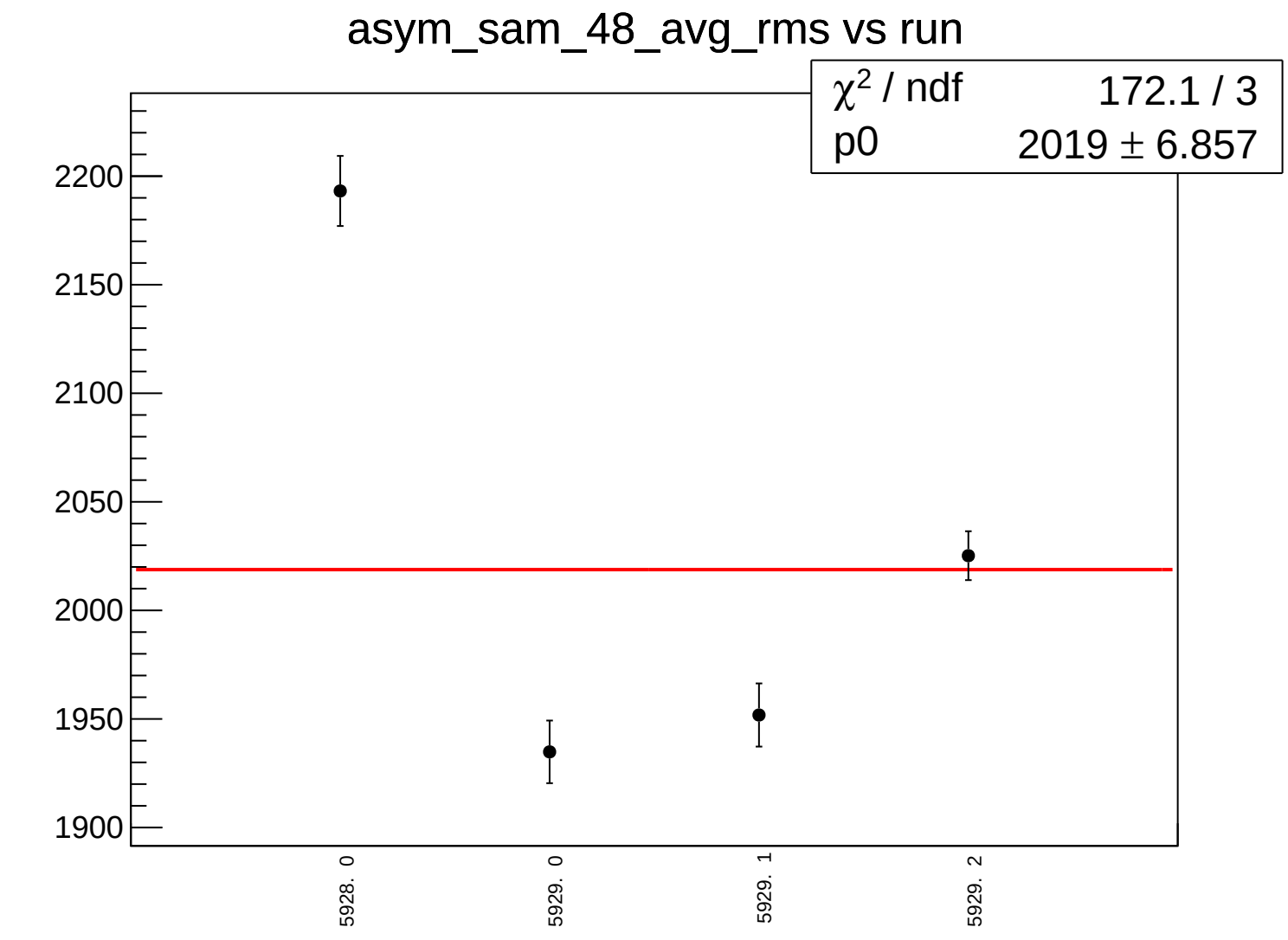

asym_sam_48_avg_correction_mean vs run
χ² / ndf 1.531 / 3
p0 −1.827e+04 ± 9661
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −18.87
Std Dev 21.13
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

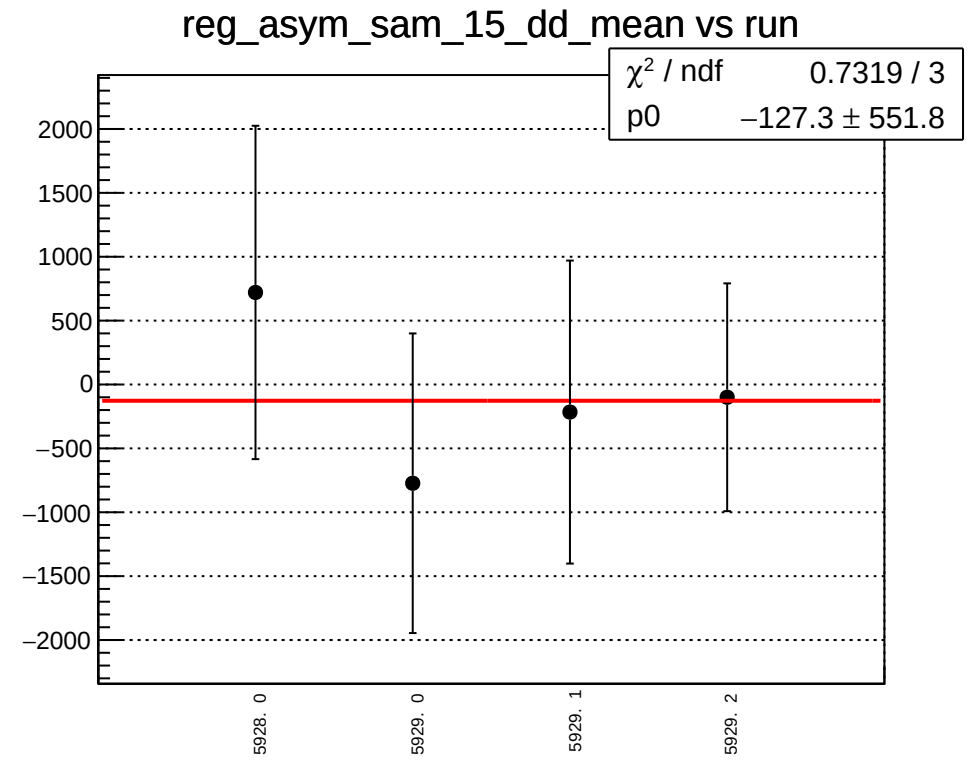

pull1D
Entries 4
Mean 0.01312
Std Dev 0.6185
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

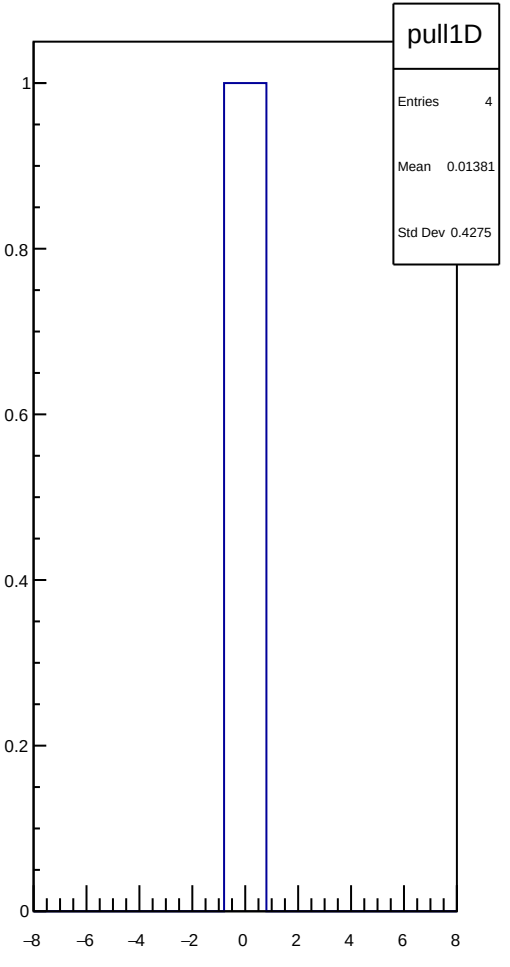

asym_sam_48_avg_correction_rms vs run
χ² / ndf 171 / 3
p0 2011 ± 6.831
2200
2150
2100
2050
2000
1950
1900
5928. 0
5929. 0
5929. 1
5929. 2

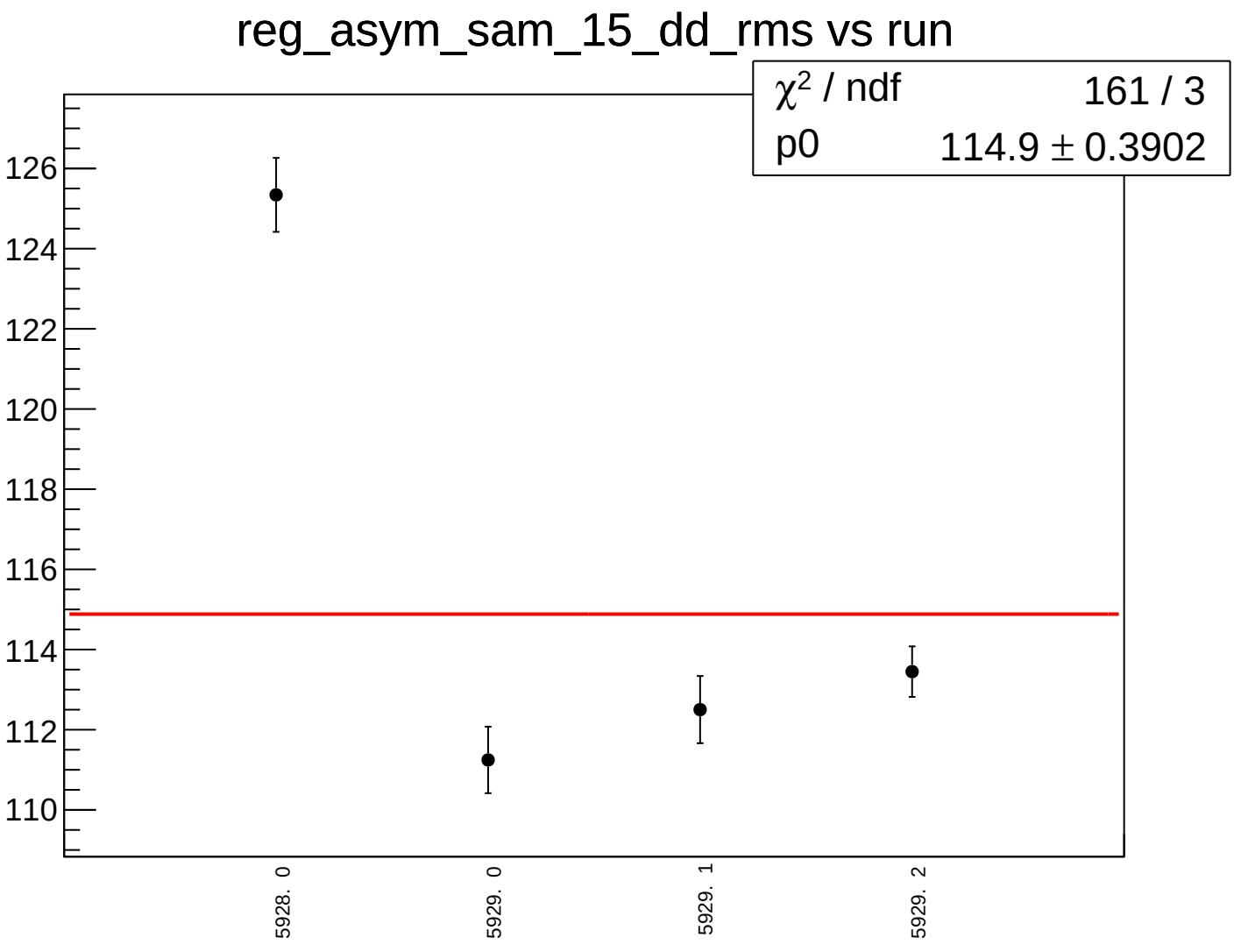

asym_sam_48_avg_mean vs run
χ² / ndf 1.474 / 3
p0 1.906e+04 ± 9697
60000
50000
40000
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −19.39
Std Dev 21.52
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

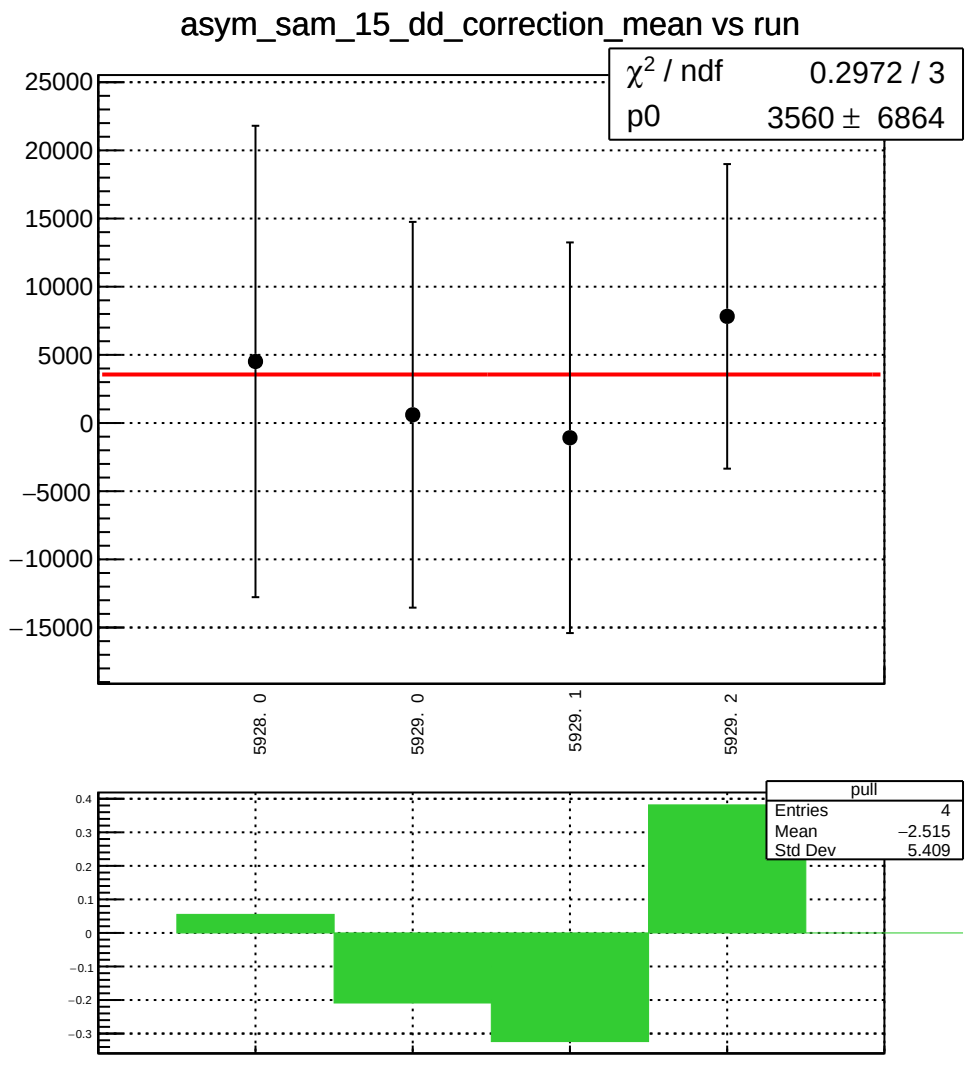

pull1D
Entries 4
Mean −0.01419
Std Dev 0.6069
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

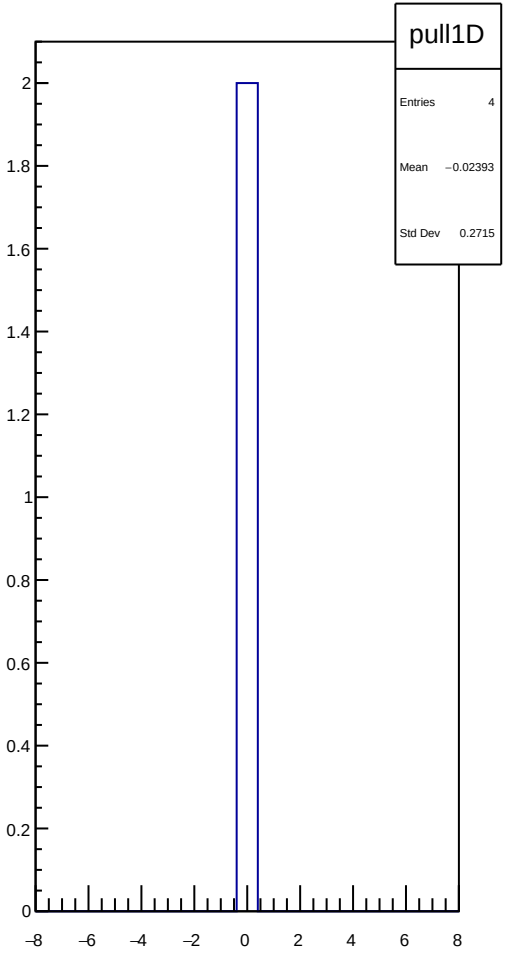

asym_sam_48_avg_rms vs run
χ² / ndf 172.1 / 3
p0 2019 ± 6.857
2200
2150
2100
2050
2000
1950
1900
5928. 0
5929. 0
5929. 1
5929. 2

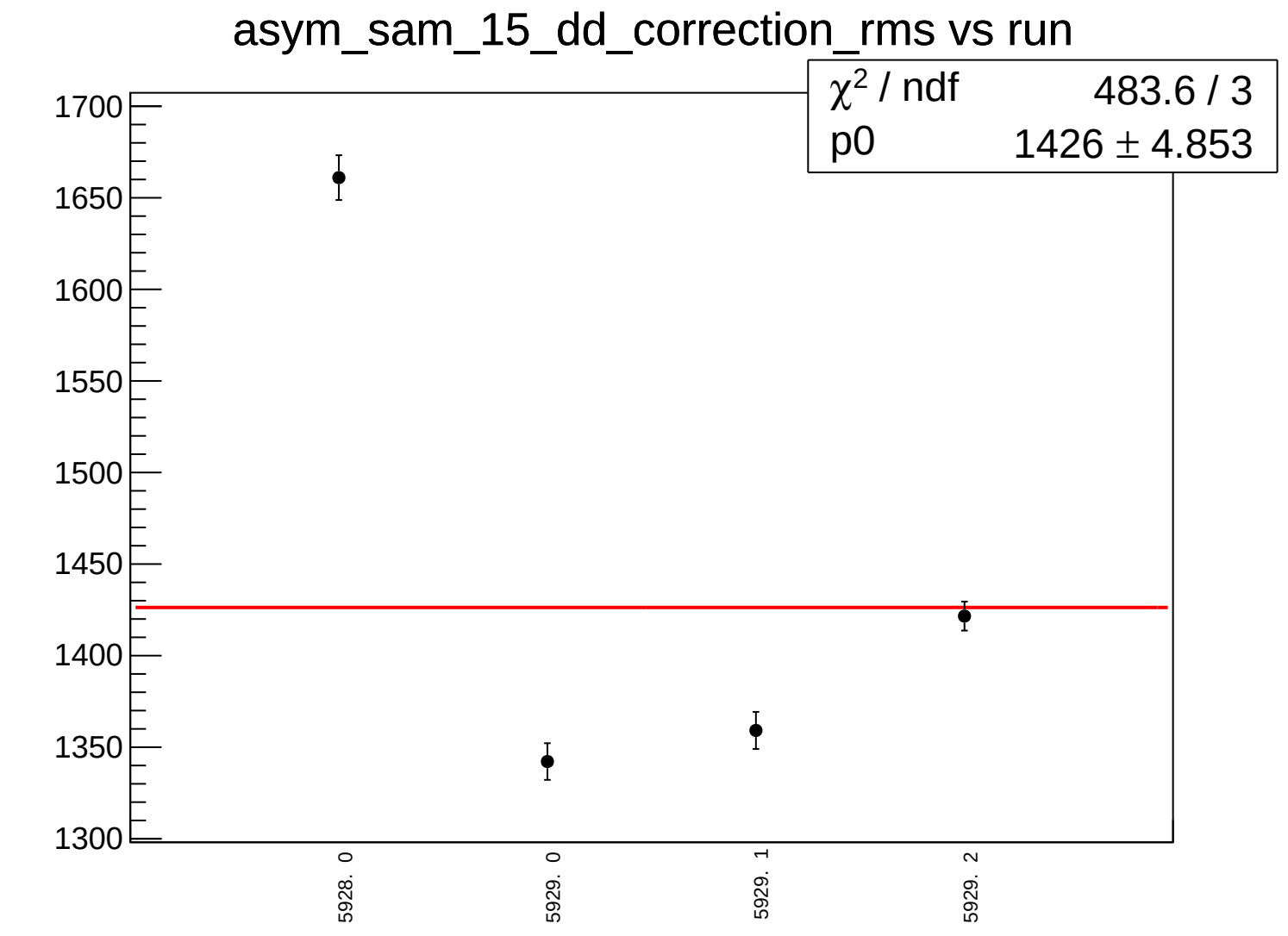

reg_asym_sam_15_dd_mean vs run
χ² / ndf 0.7319 / 3
p0 −127.3 ± 551.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −10.5
Std Dev 11.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

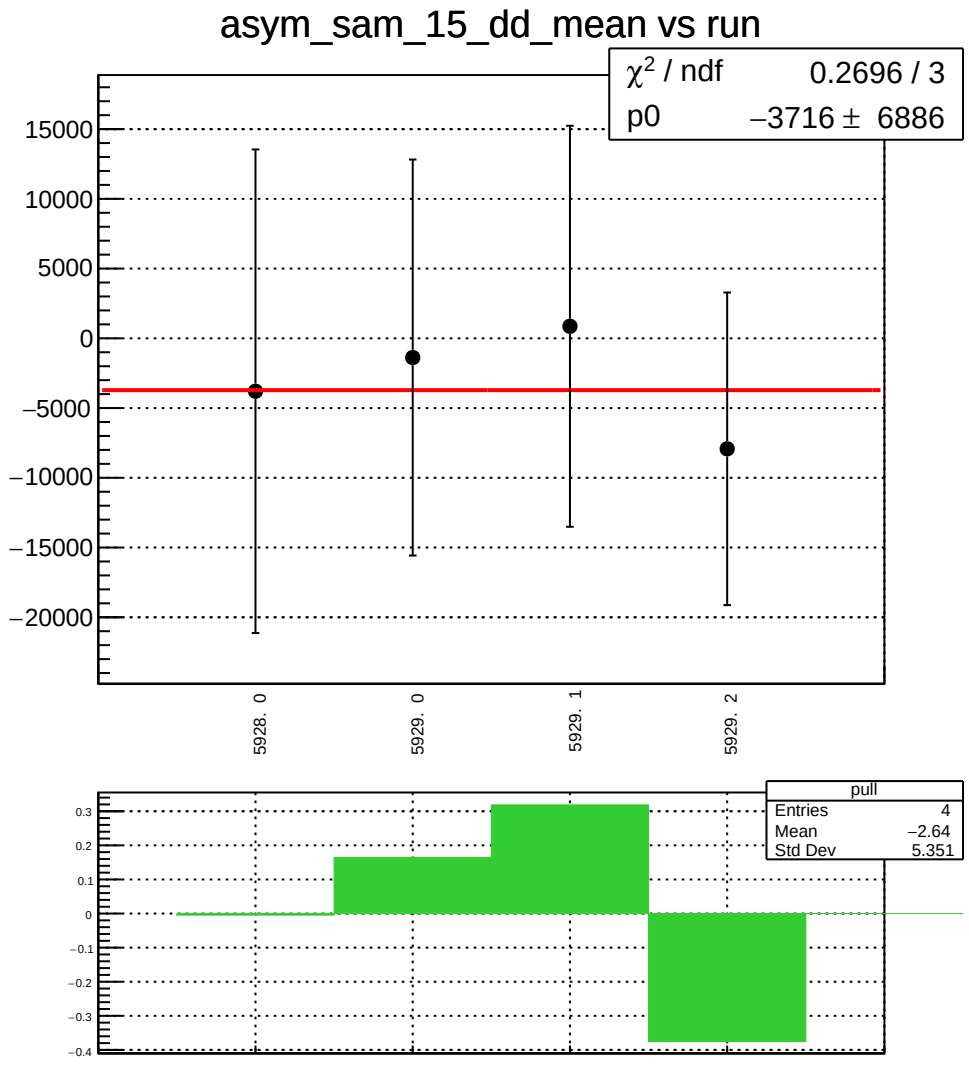

pull1D
Entries 4
Mean 0.01381
Std Dev 0.4275
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

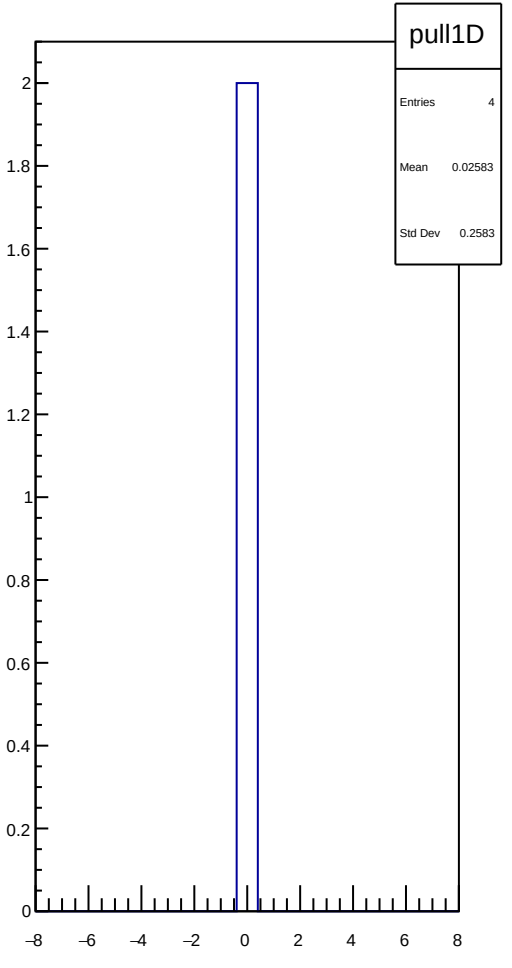

reg_asym_sam_15_dd_rms vs run
χ² / ndf 161 / 3
p0 114.9 ± 0.3902
126
124
122
120
118
116
114
112
110
5928. 0
5929. 0
5929. 1
5929. 2

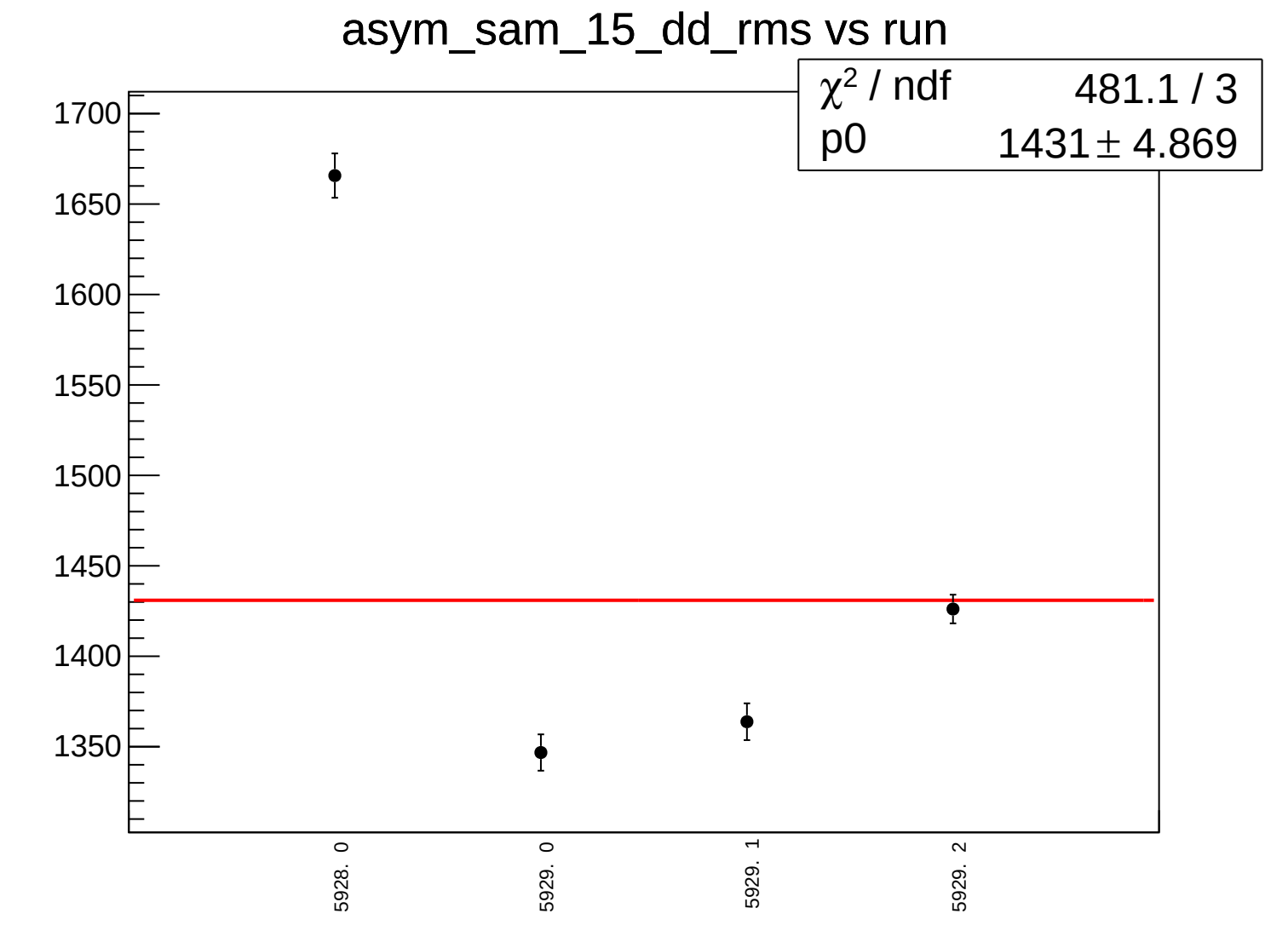

asym_sam_15_dd_correction_mean vs run
χ² / ndf 0.2972 / 3
p0 3560 ± 6864
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.515
Std Dev 5.409
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

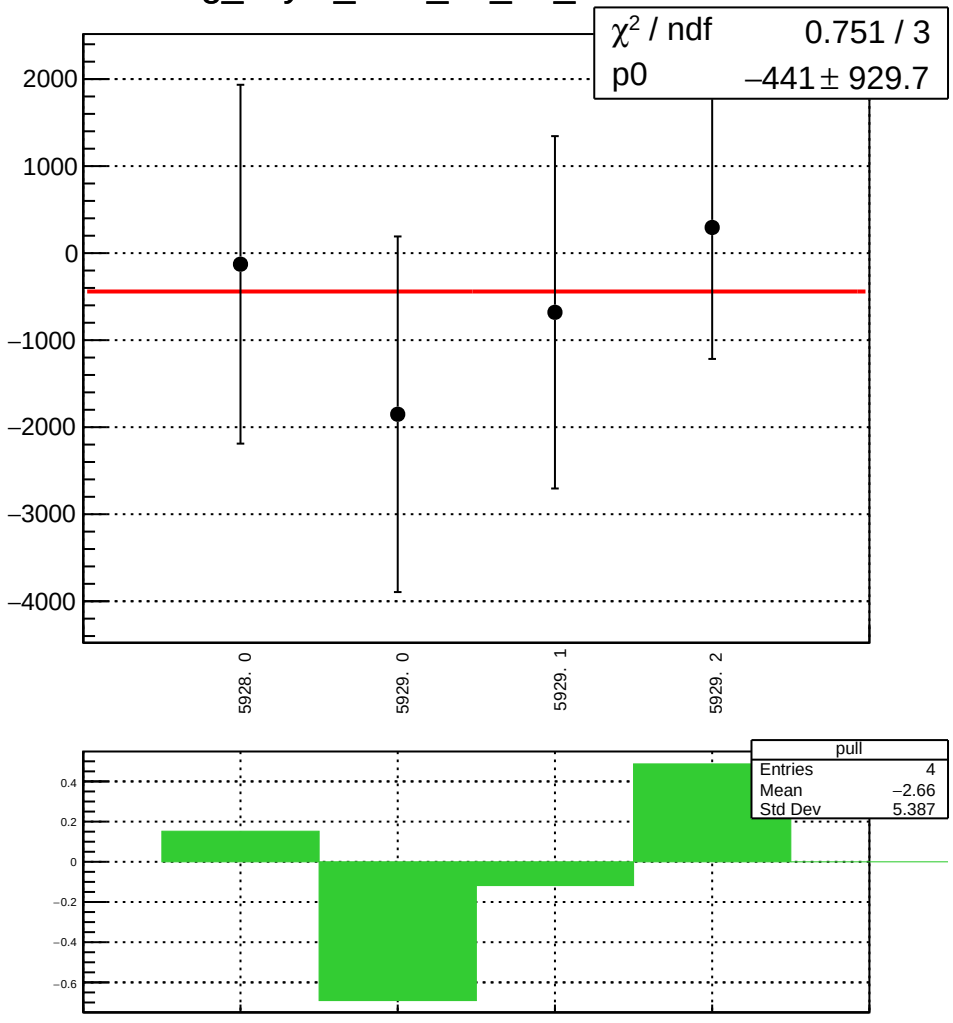

pull1D
Entries 4
Mean −0.02393
Std Dev 0.2715
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

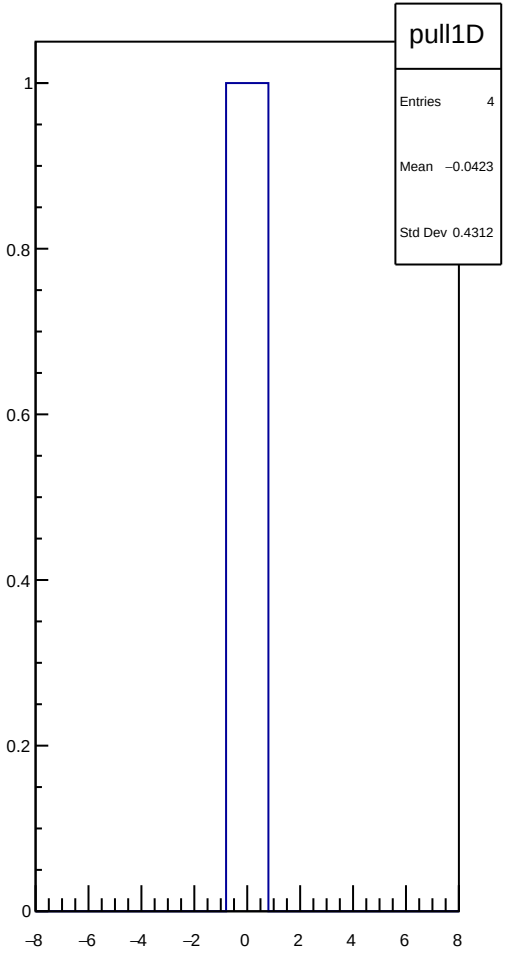

asym_sam_15_dd_correction_rms vs run
χ² / ndf 483.6 / 3
p0 1426 ± 4.853
1700
1650
1600
1550
1500
1450
1400
1350
1300
5928. 0
5929. 0
5929. 1
5929. 2

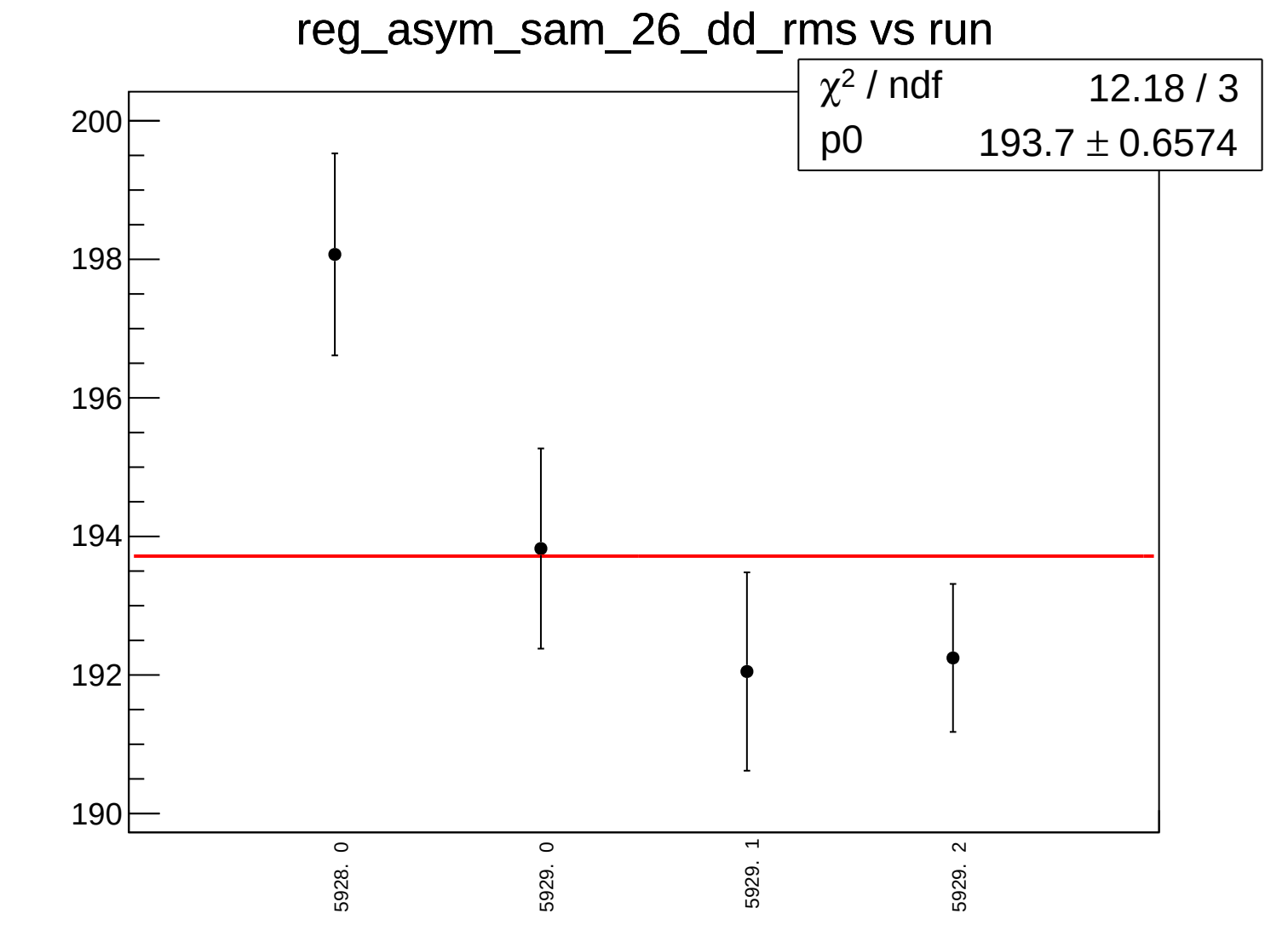

asym_sam_15_dd_mean vs run
χ² / ndf 0.2696 / 3
p0 −3716 ± 6886
15000
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.64
Std Dev 5.351
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

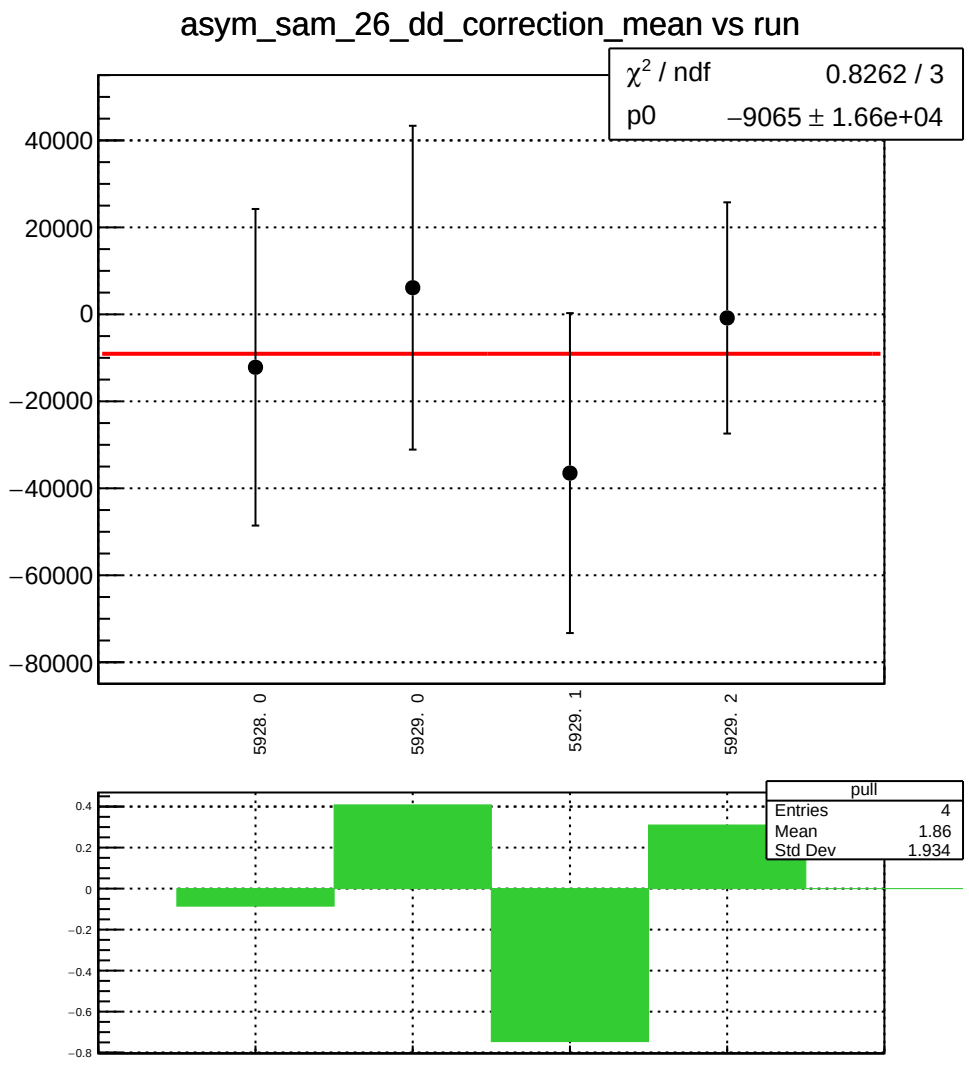

pull1D
Entries 4
Mean 0.02583
Std Dev 0.2583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

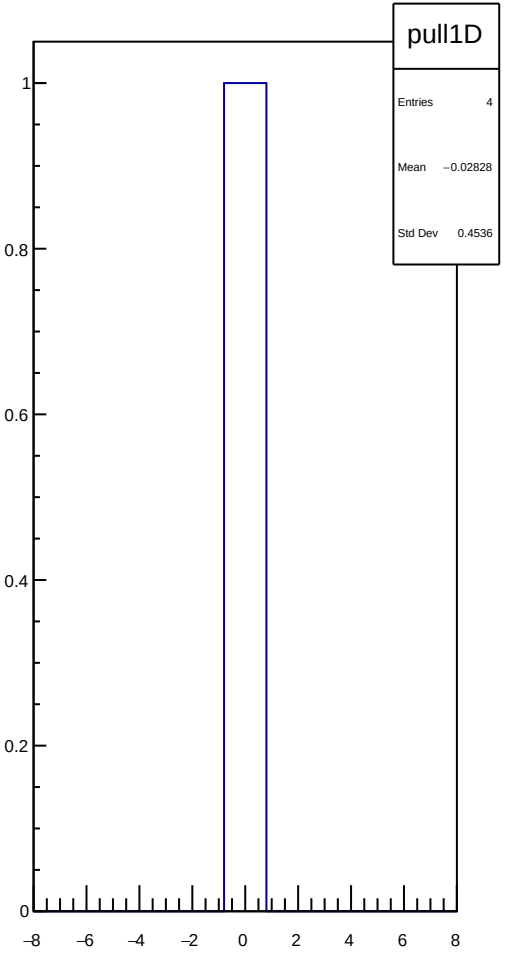

asym_sam_15_dd_rms vs run
χ² / ndf 481.1 / 3
p0 1431 ± 4.869
1700
1650
1600
1550
1500
1450
1400
1350
5928. 0
5929. 0
5929. 1
5929. 2

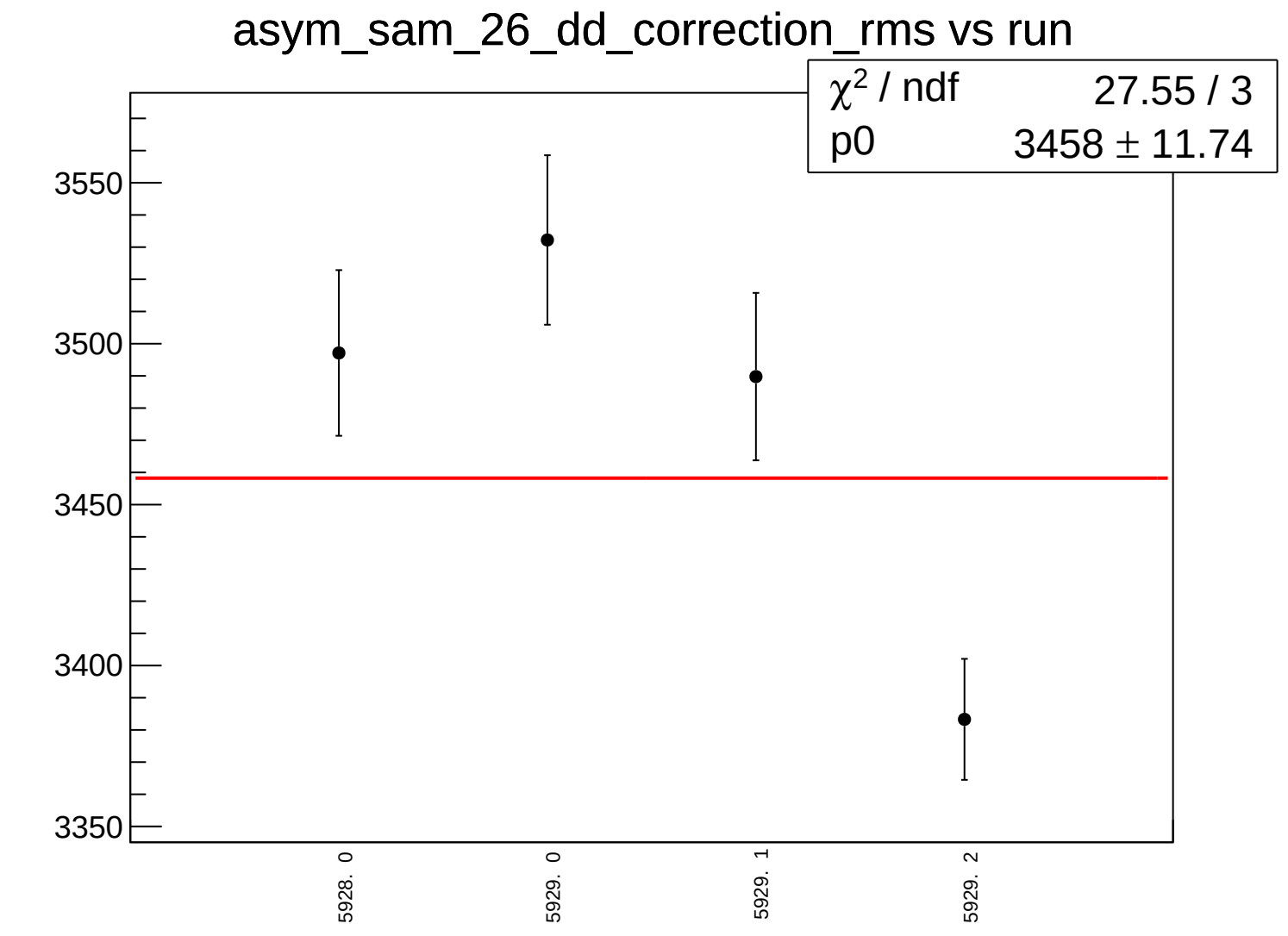

reg_asym_sam_26_dd_mean vs run
χ² / ndf 0.751 / 3
p0 −441 ± 929.7
2000
1000
0
−1000
−2000
−3000
−4000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.66
Std Dev 5.387
0.4
0.2
0
−0.2
−0.4
−0.6

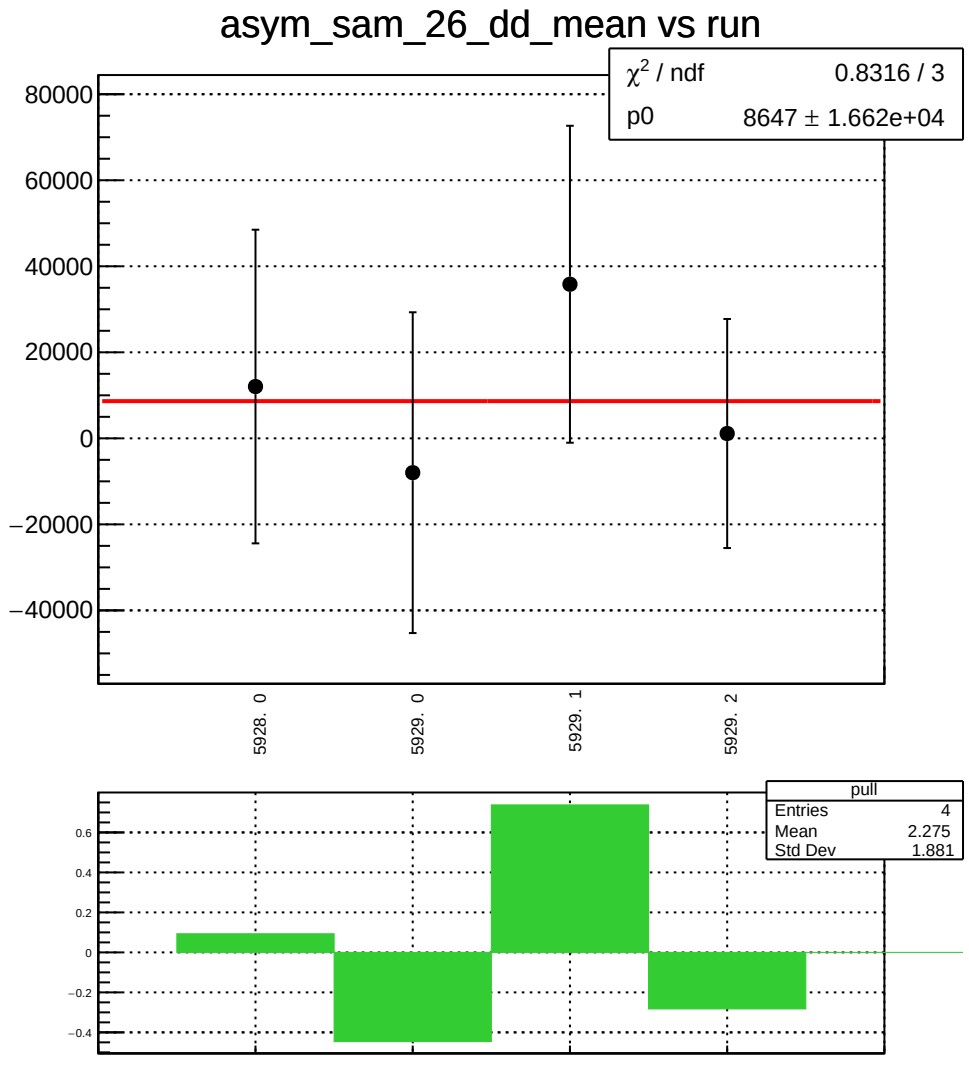

pull1D
Entries 4
Mean −0.0423
Std Dev 0.4312
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

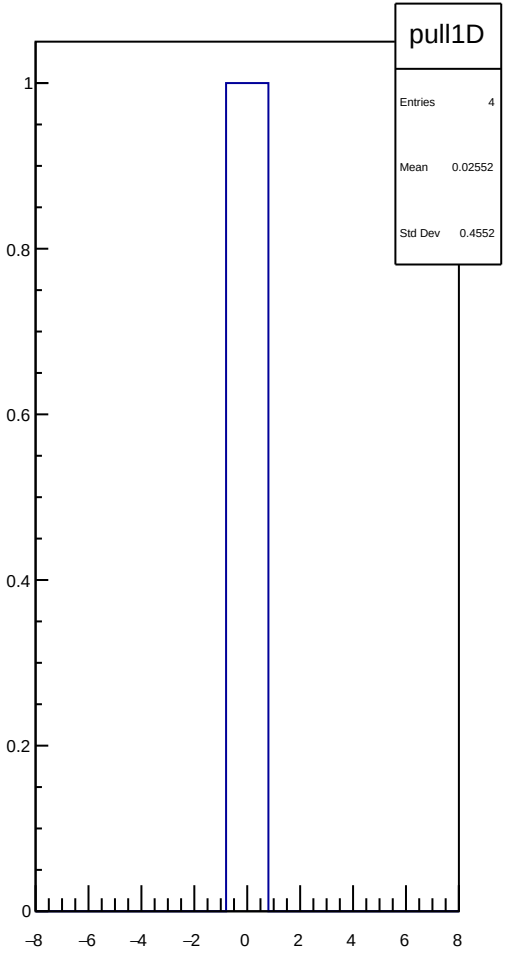

reg_asym_sam_26_dd_rms vs run
χ² / ndf 12.18 / 3
p0 193.7 ± 0.6574
200
198
196
194
192
190
5928. 0
5929. 0
5929. 1
5929. 2

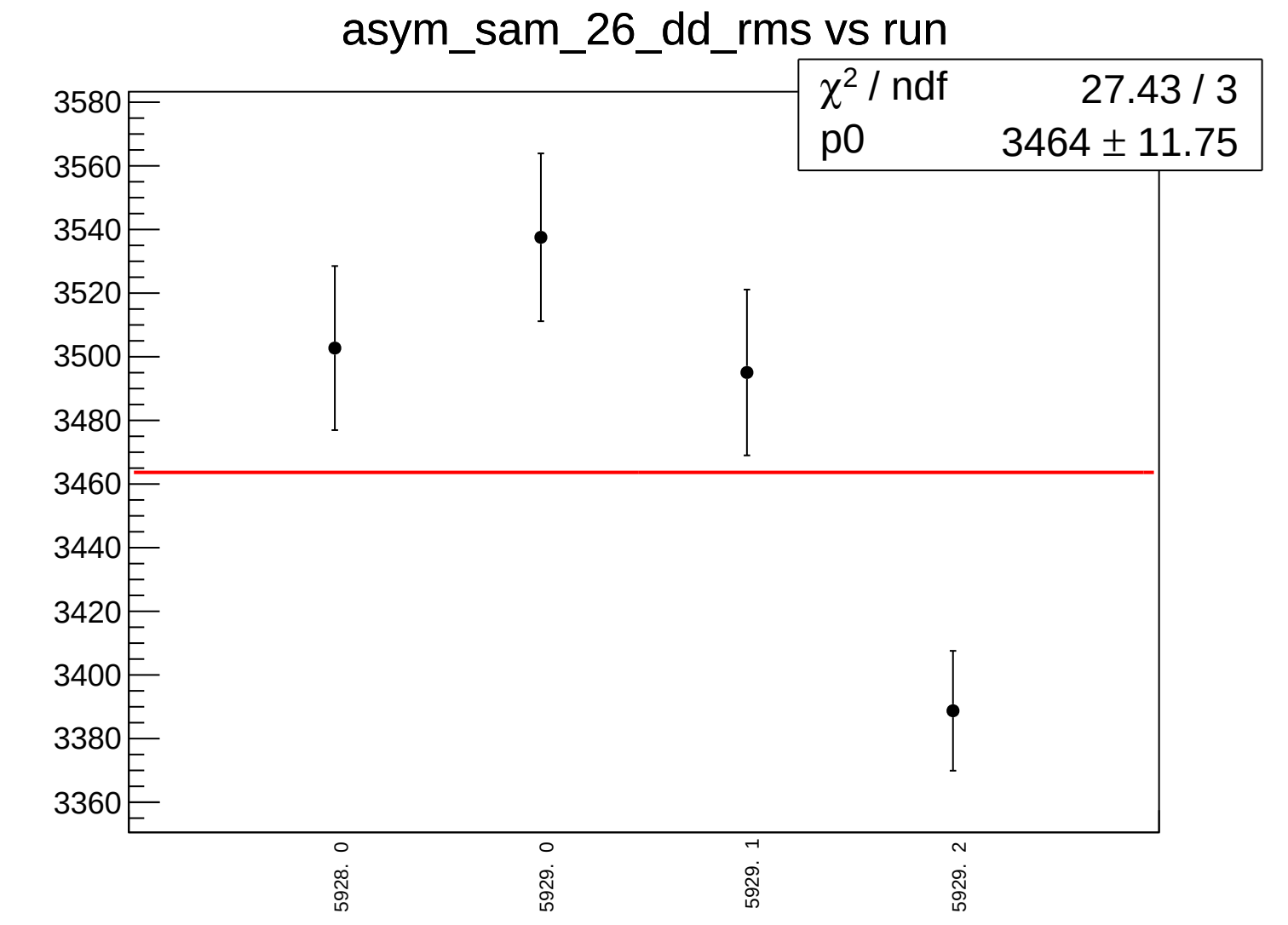

asym_sam_26_dd_correction_mean vs run
χ² / ndf 0.8262 / 3
p0 −9065 ± 1.66e+04
40000
20000
0
−20000
−40000
−60000
−80000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.86
Std Dev 1.934
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

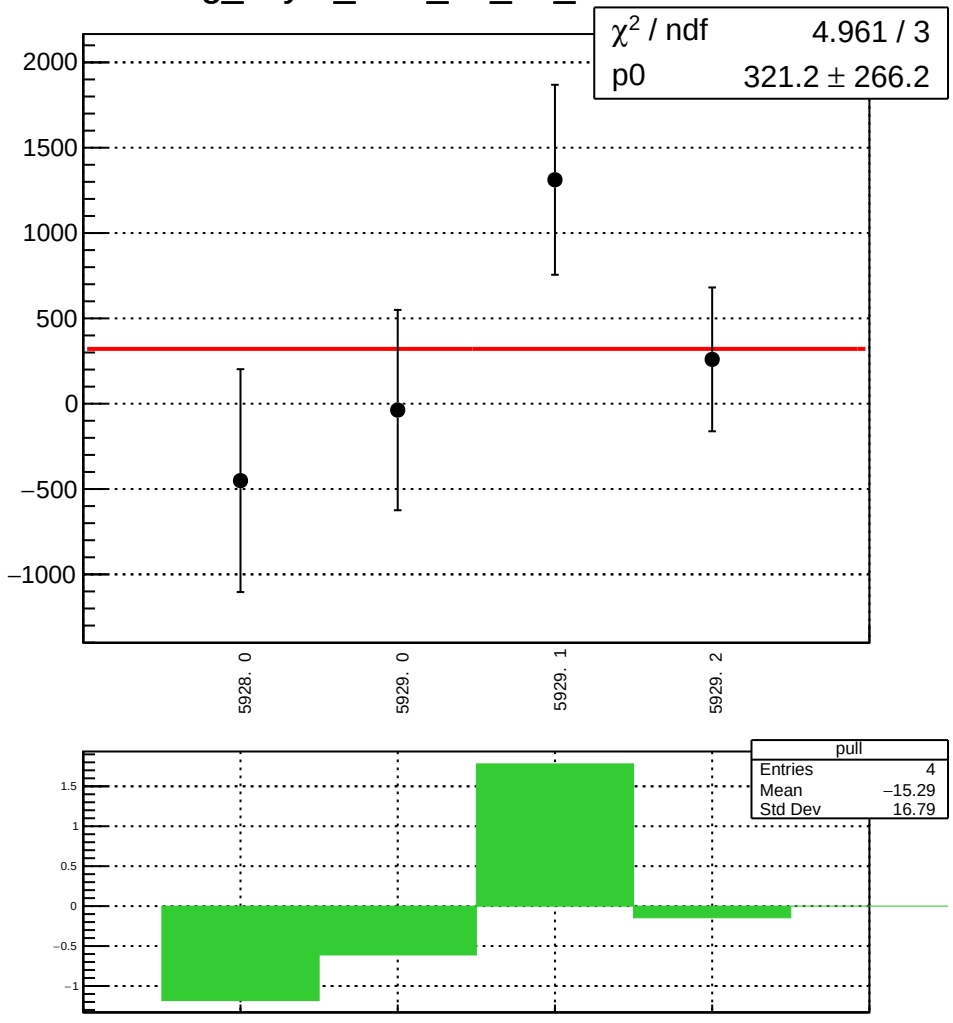

pull1D
Entries 4
Mean −0.02828
Std Dev 0.4536
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

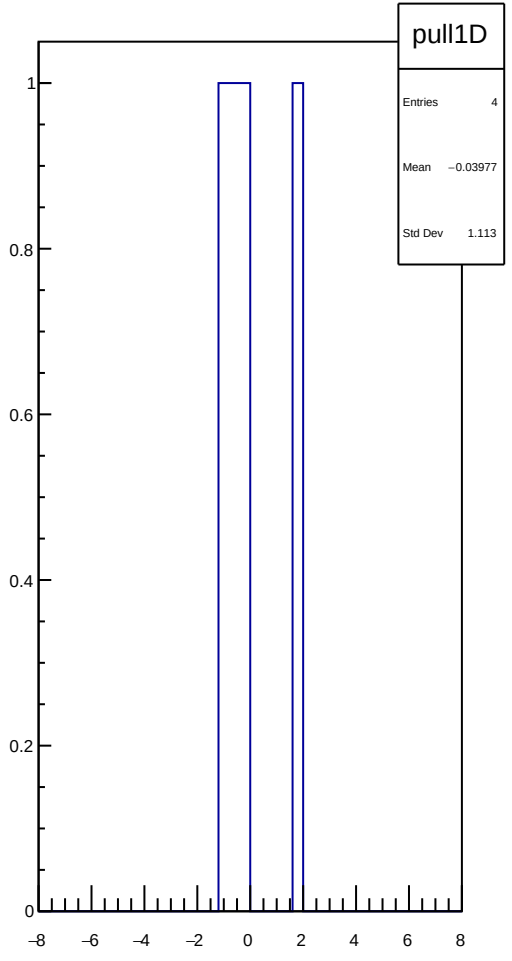

asym_sam_26_dd_correction_rms vs run
χ² / ndf 27.55 / 3
p0 3458 ± 11.74
3550
3500
3450
3400
3350
5928. 0
5929. 0
5929. 1
5929. 2

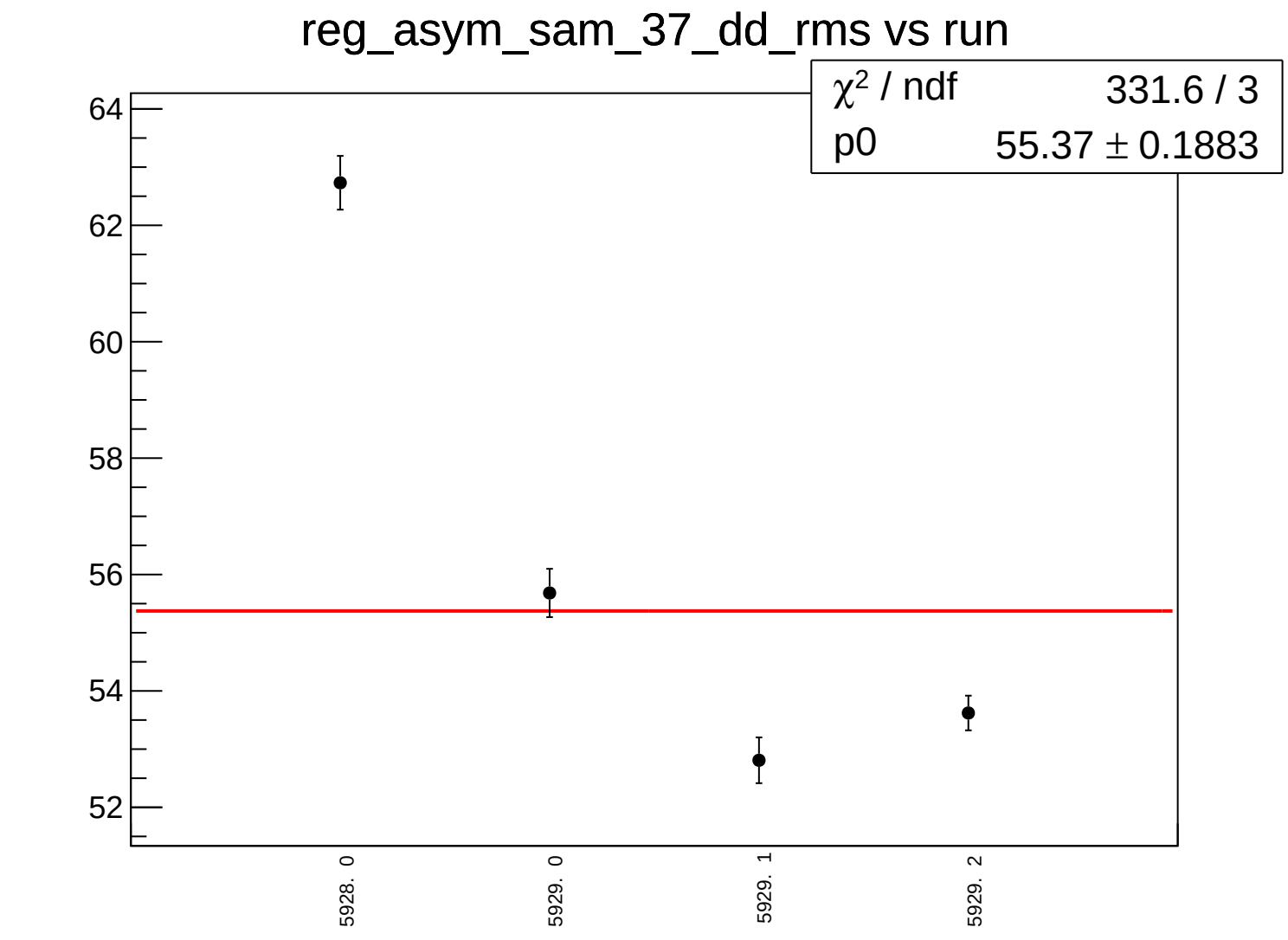

asym_sam_26_dd_mean vs run
χ² / ndf 0.8316 / 3
p0 8647 ± 1.662e+04
80000
60000
40000
20000
0
−20000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.275
Std Dev 1.881
0.6
0.4
0.2
0
−0.2
−0.4

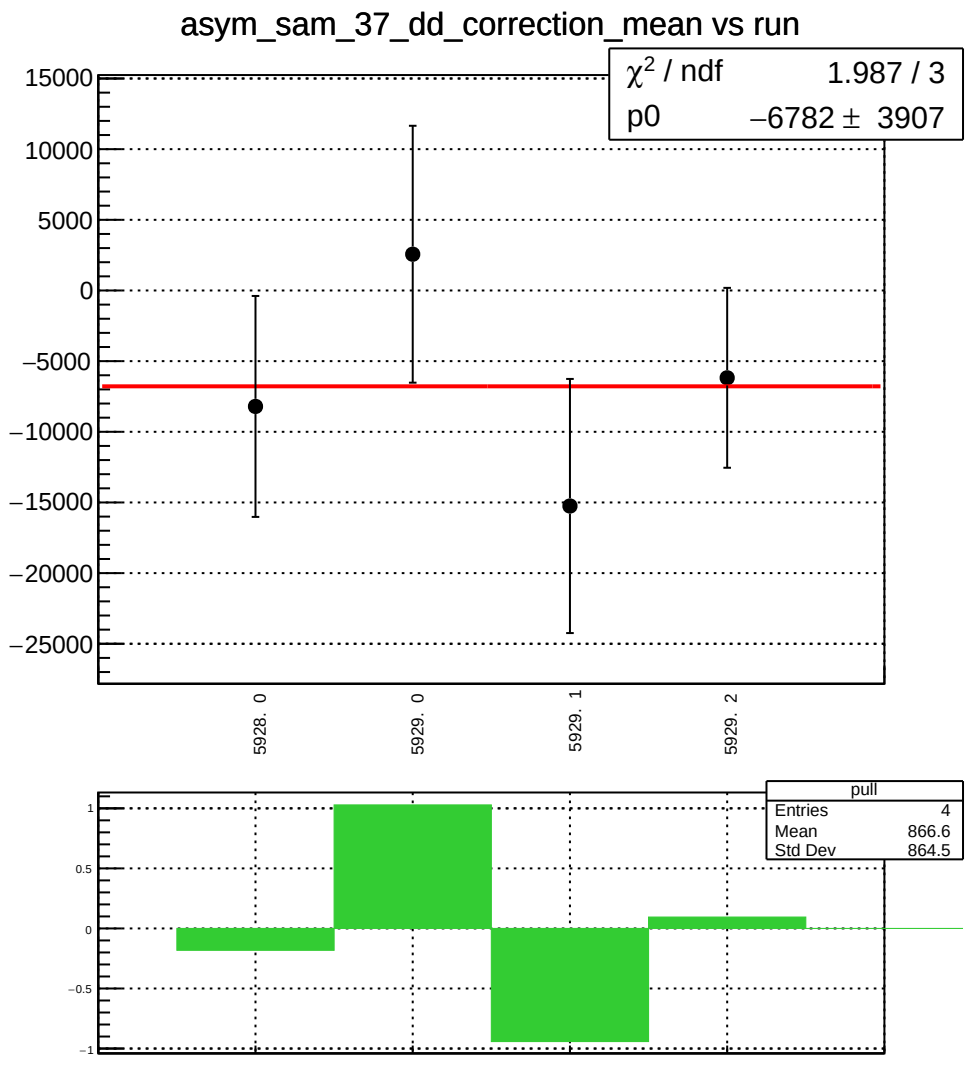

pull1D
Entries 4
Mean 0.02552
Std Dev 0.4552
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

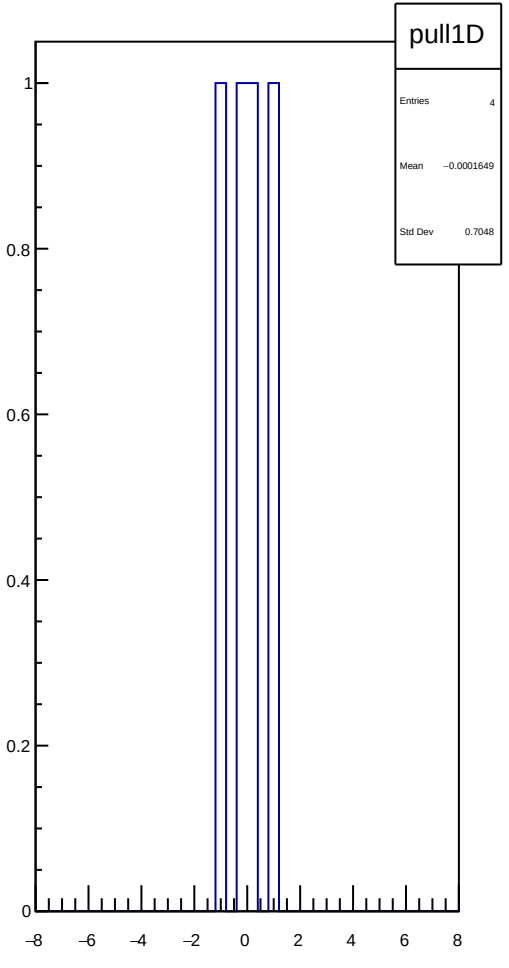

asym_sam_26_dd_rms vs run
χ² / ndf 27.43 / 3
p0 3464 ± 11.75
3580
3560
3540
3520
3500
3480
3460
3440
3420
3400
3380
3360
5928. 0
5929. 0
5929. 1
5929. 2

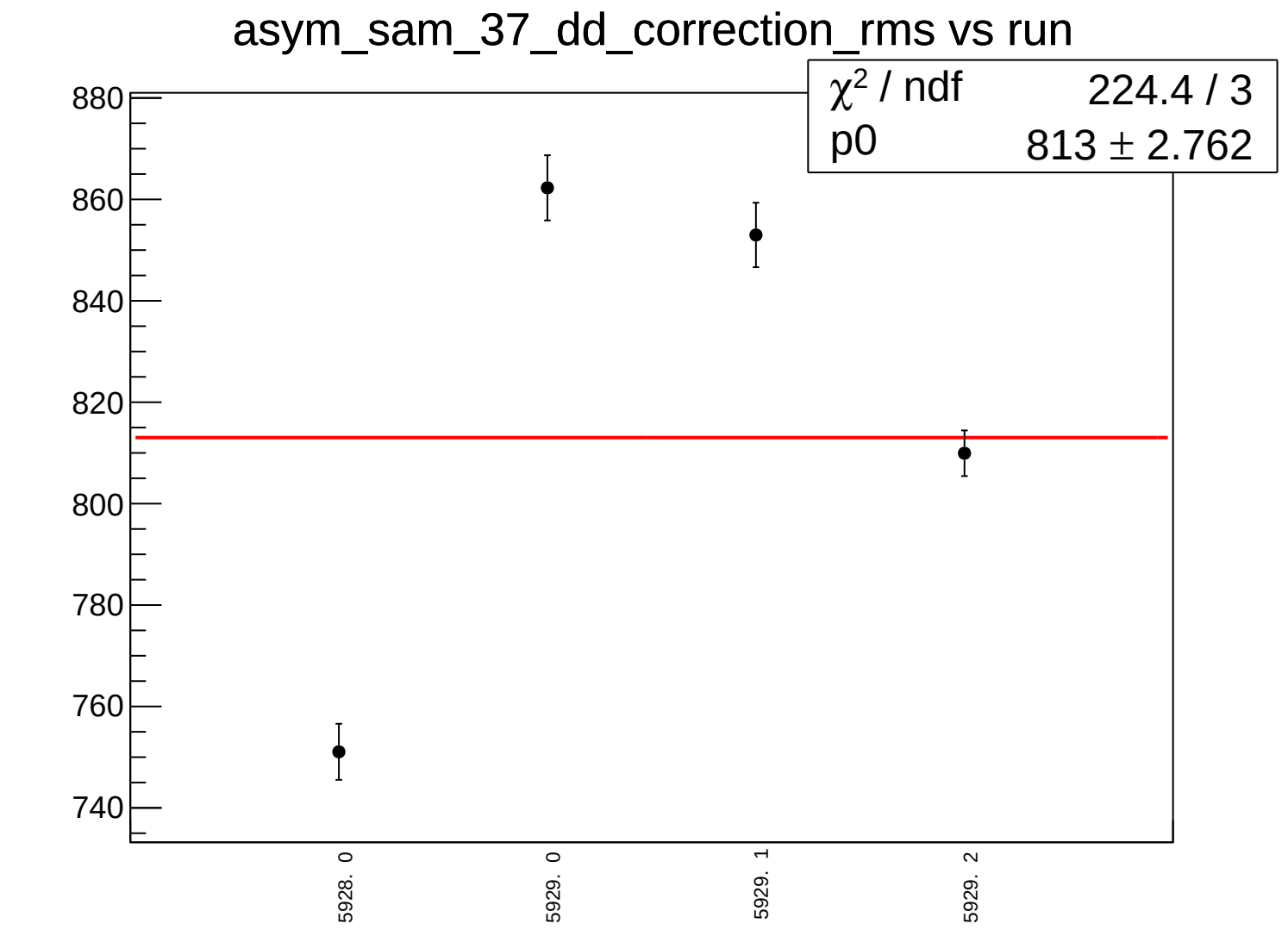

reg_asym_sam_37_dd_mean vs run
χ² / ndf 4.961 / 3
p0 321.2 ± 266.2
2000
1500
1000
500
0
−500
−1000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −15.29
Std Dev 16.79
1.5
1
0.5
0
−0.5
−1

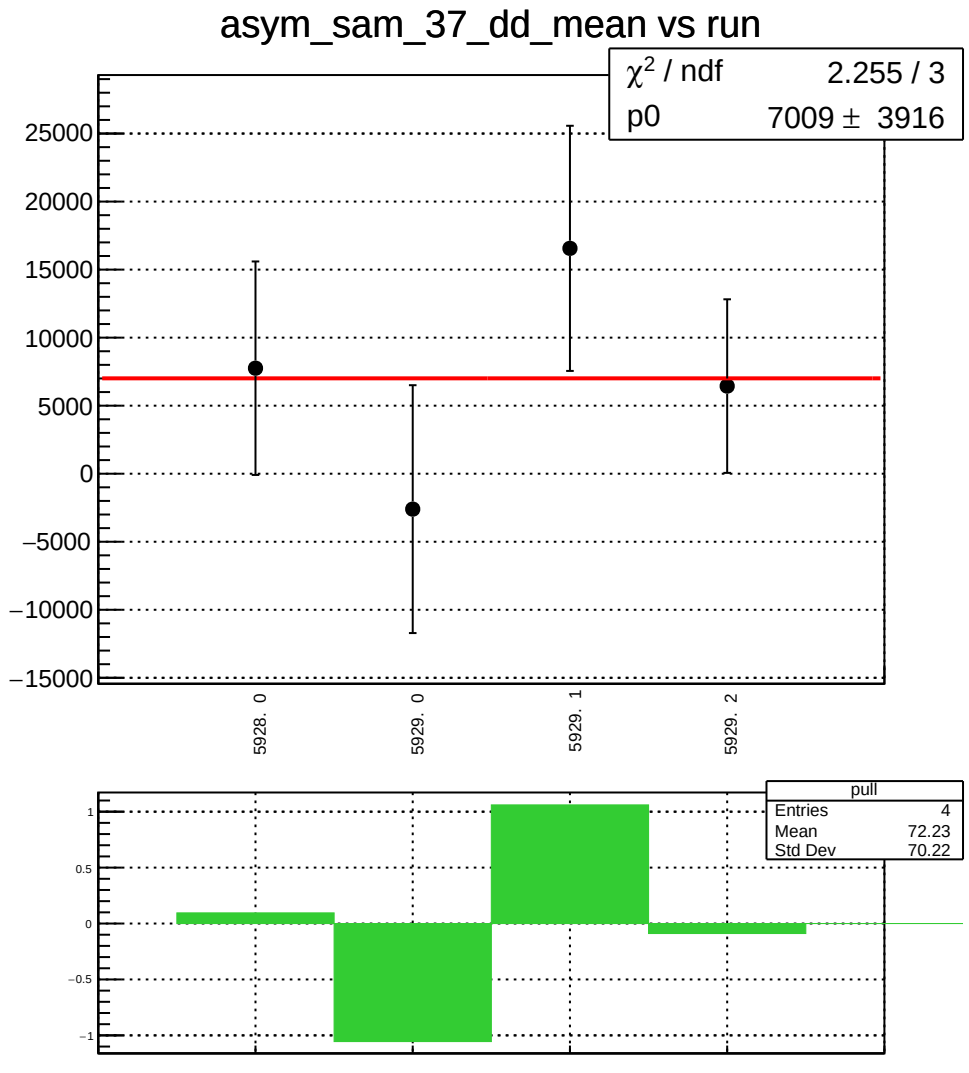

pull1D
Entries 4
Mean −0.03977
Std Dev 1.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

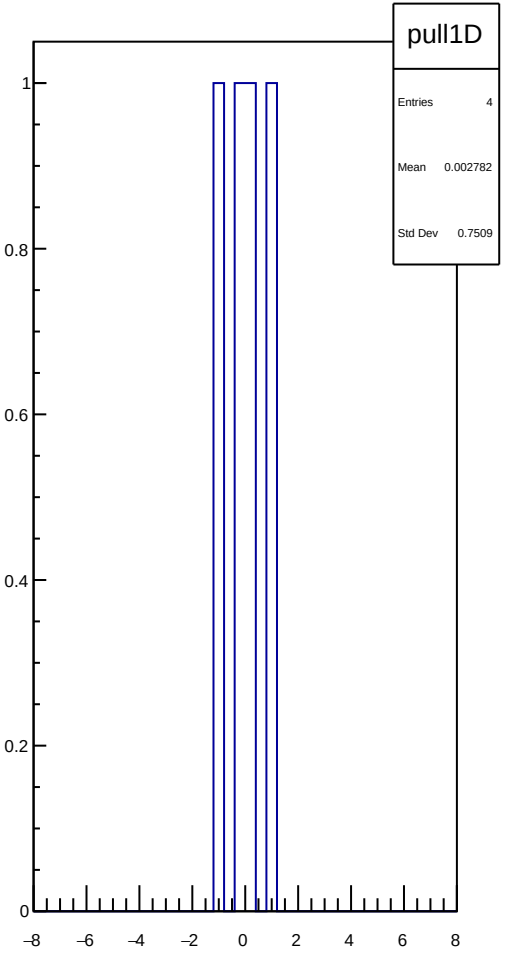

reg_asym_sam_37_dd_rms vs run
χ² / ndf 331.6 / 3
p0 55.37 ± 0.1883
64
62
60
58
56
54
52
5928. 0
5929. 0
5929. 1
5929. 2

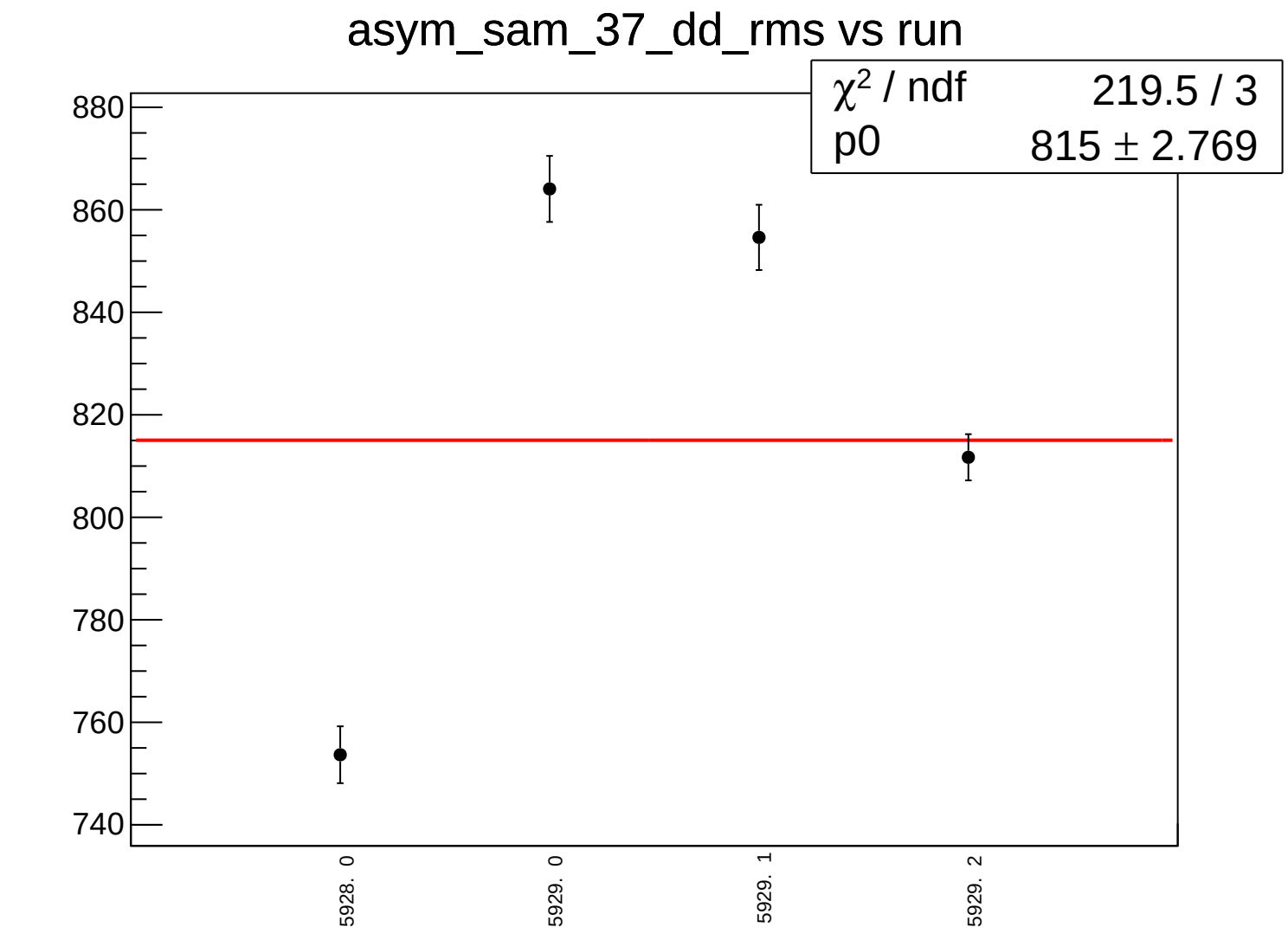

asym_sam_37_dd_correction_mean vs run
χ² / ndf 1.987 / 3
p0 −6782 ± 3907
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 866.6
Std Dev 864.5
1
0.5
0
−0.5
−1

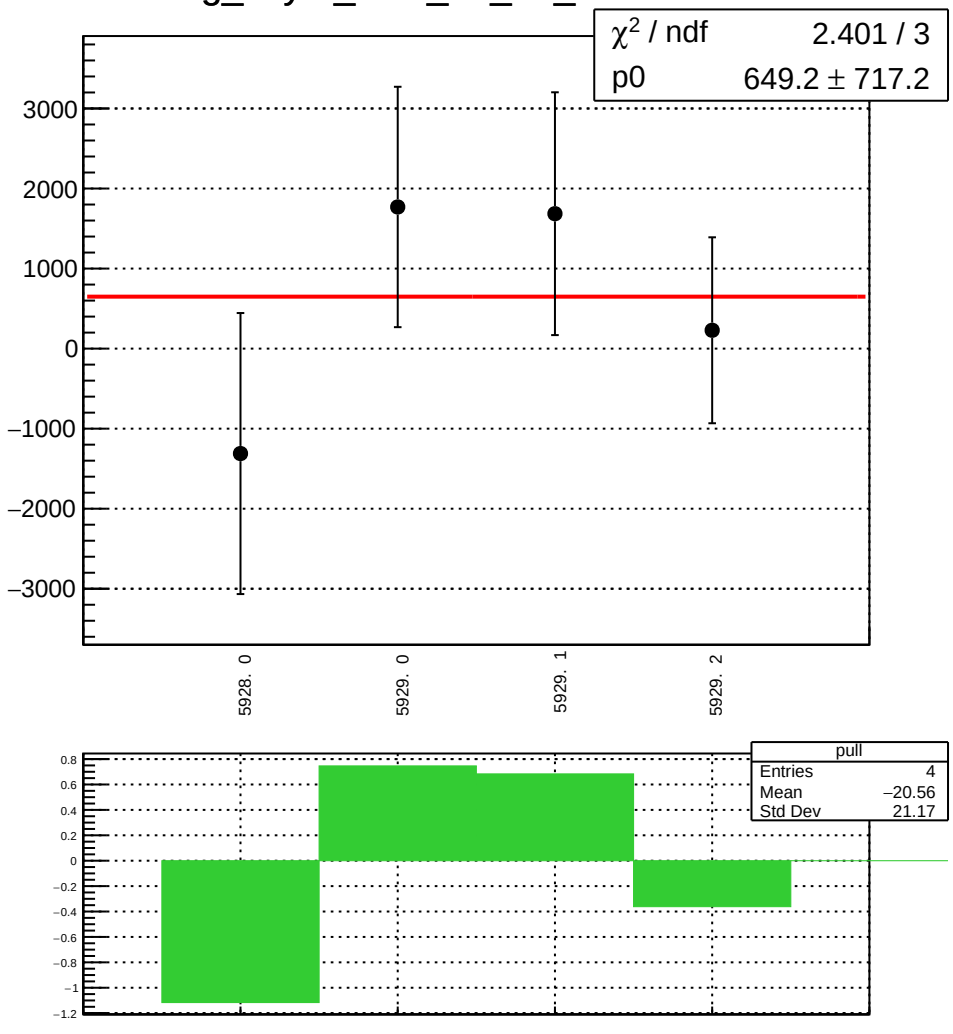

pull1D
Entries 4
Mean −0.0001649
Std Dev 0.7048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

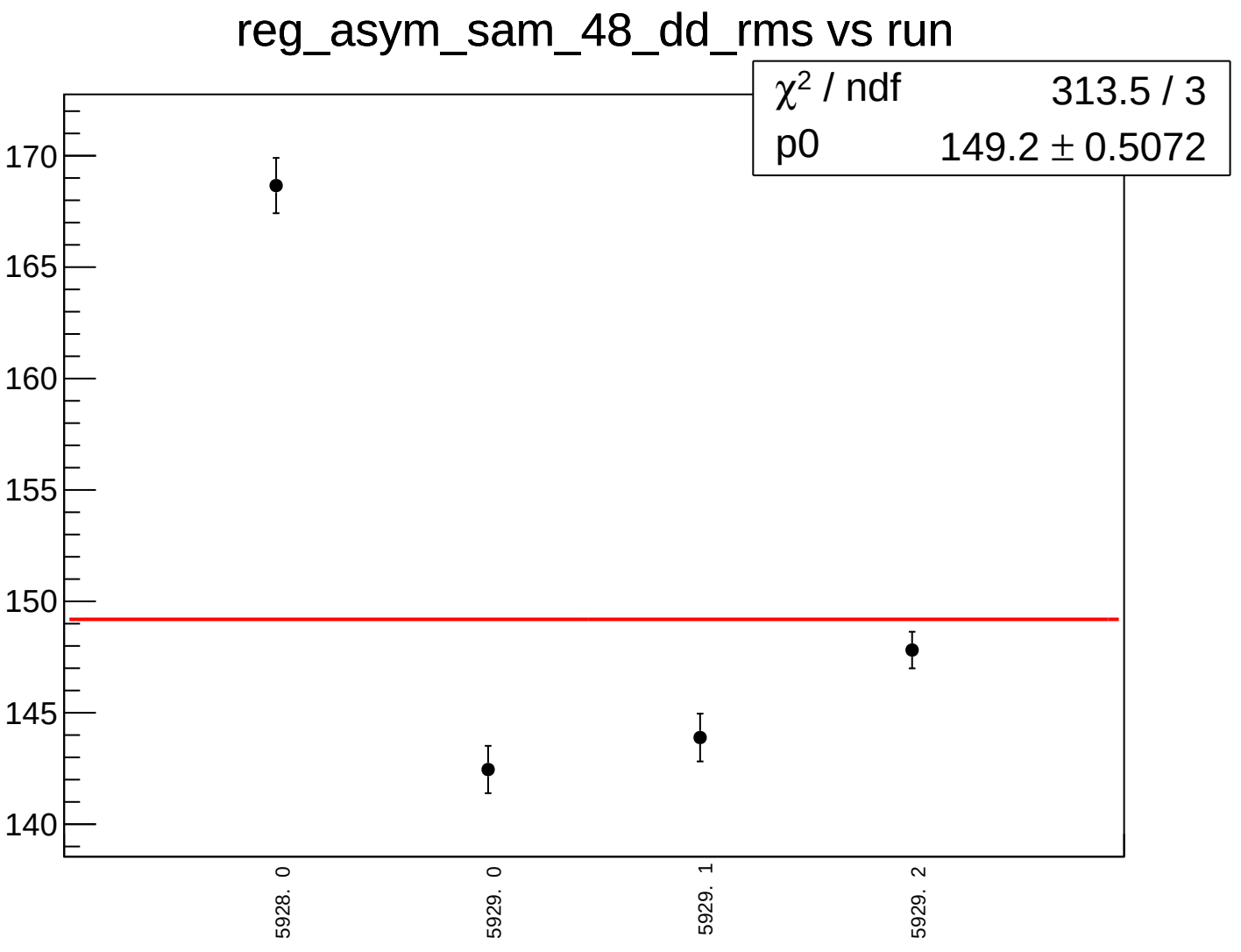

asym_sam_37_dd_correction_rms vs run
χ² / ndf 224.4 / 3
p0 813 ± 2.762
880
860
840
820
800
780
760
740
5928. 0
5929. 0
5929. 1
5929. 2

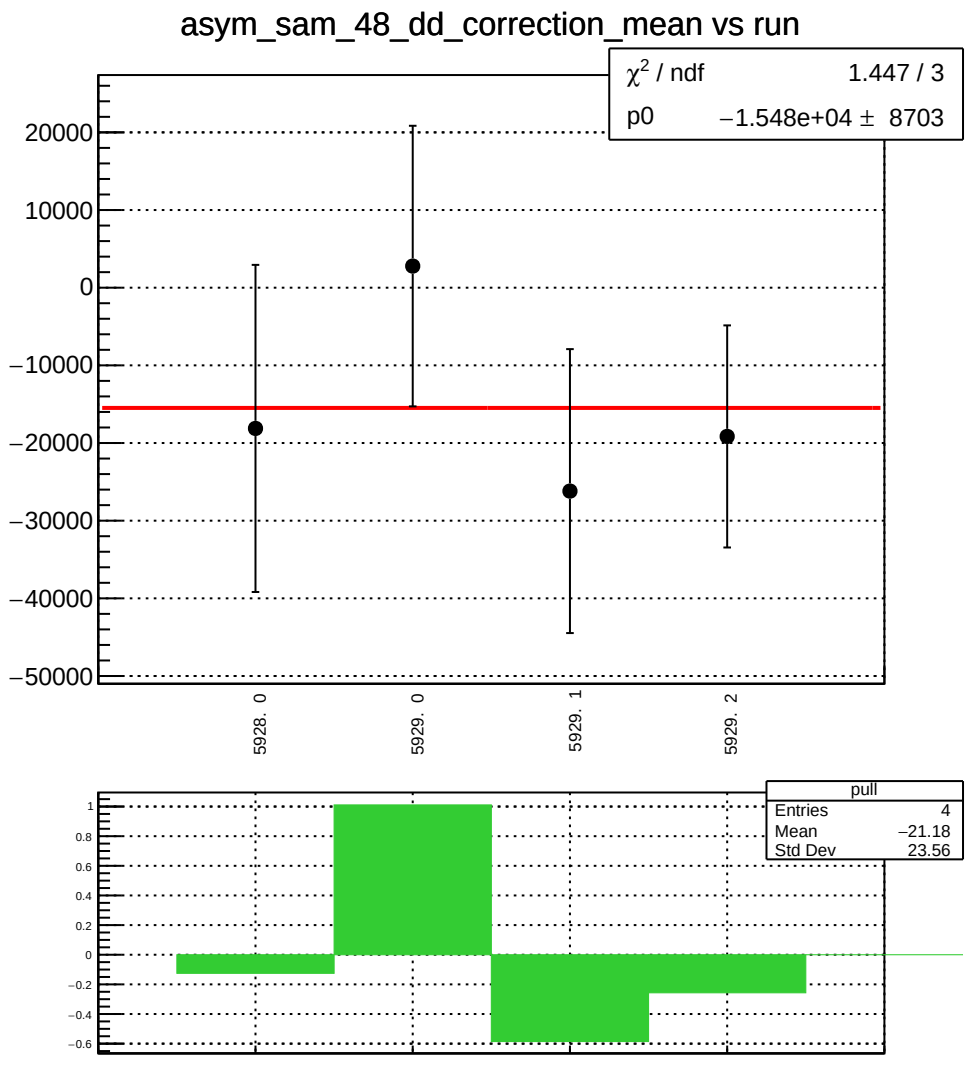

asym_sam_37_dd_mean vs run
χ² / ndf 2.255 / 3
p0 7009 ± 3916
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 72.23
Std Dev 70.22
1
0.5
0
−0.5
−1

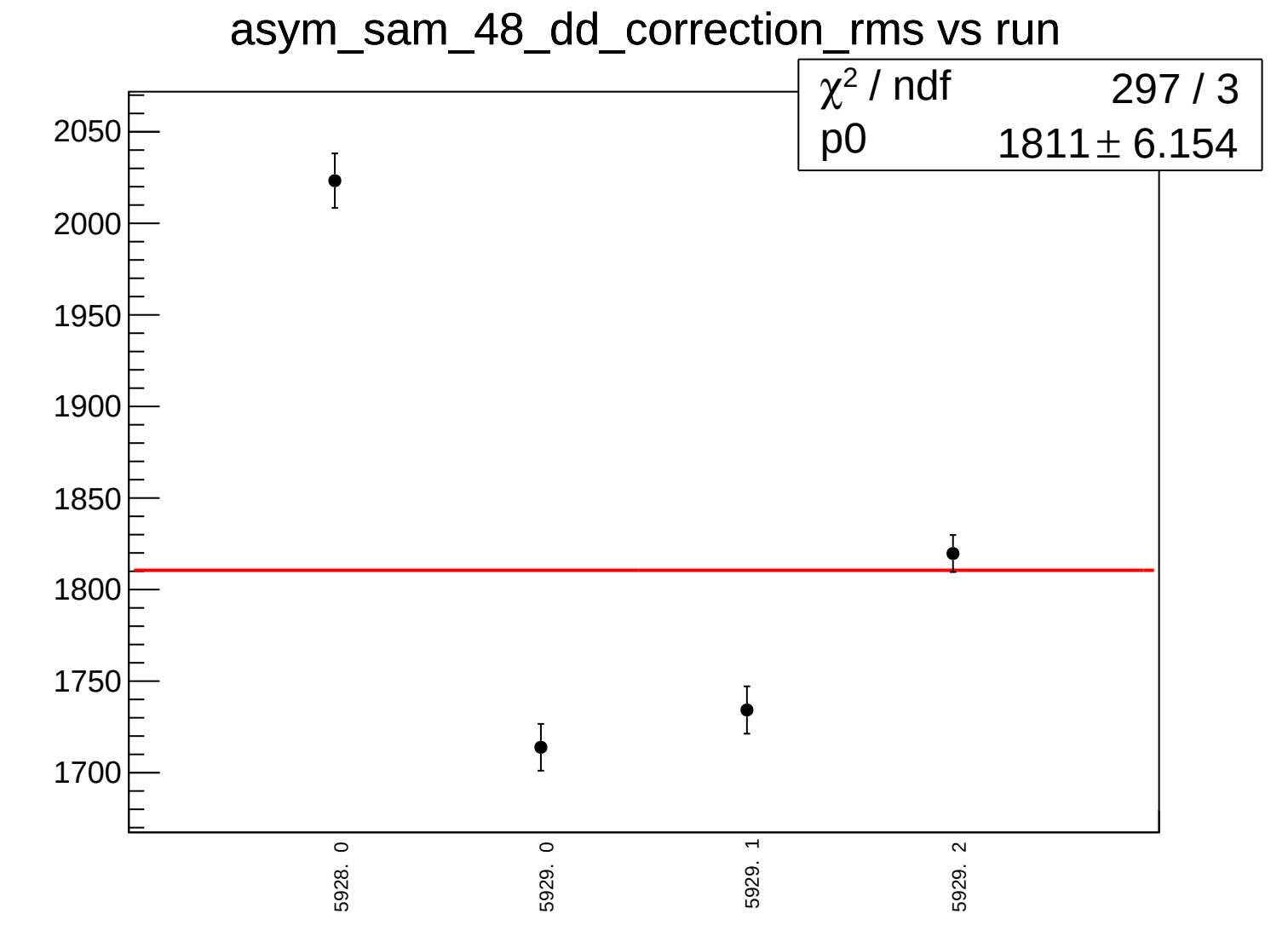

pull1D
Entries 4
Mean 0.002782
Std Dev 0.7509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

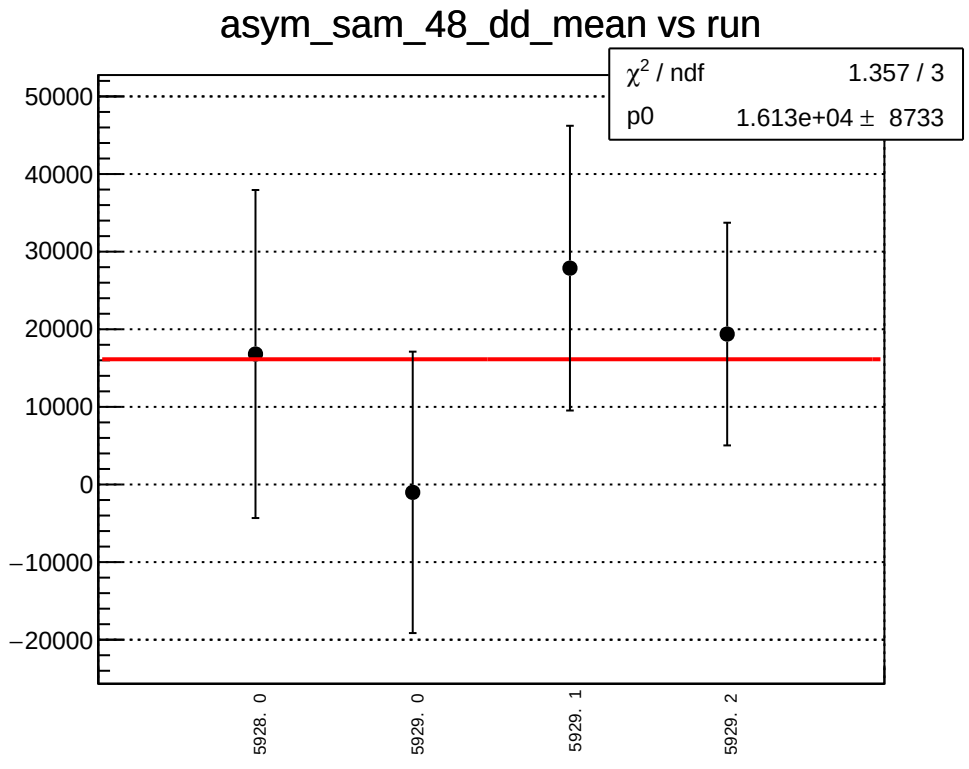

asym_sam_37_dd_rms vs run
χ² / ndf 219.5 / 3
p0 815 ± 2.769
880
860
840
820
800
780
760
740
5928. 0
5929. 0
5929. 1
5929. 2

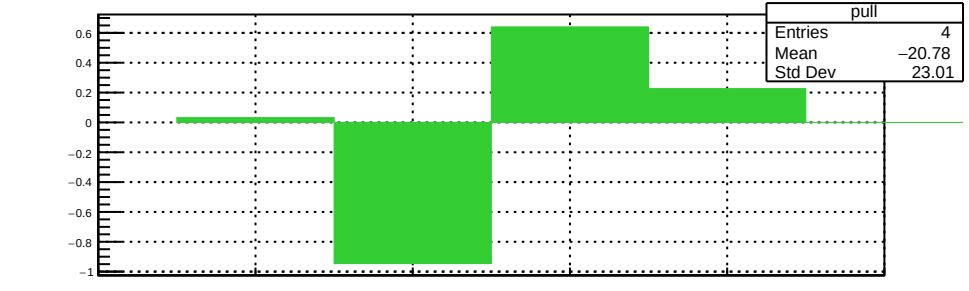

reg_asym_sam_48_dd_mean vs run
χ² / ndf 2.401 / 3
p0 649.2 ± 717.2
3000
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −20.56
Std Dev 21.17
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.0122
Std Dev 0.7747
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

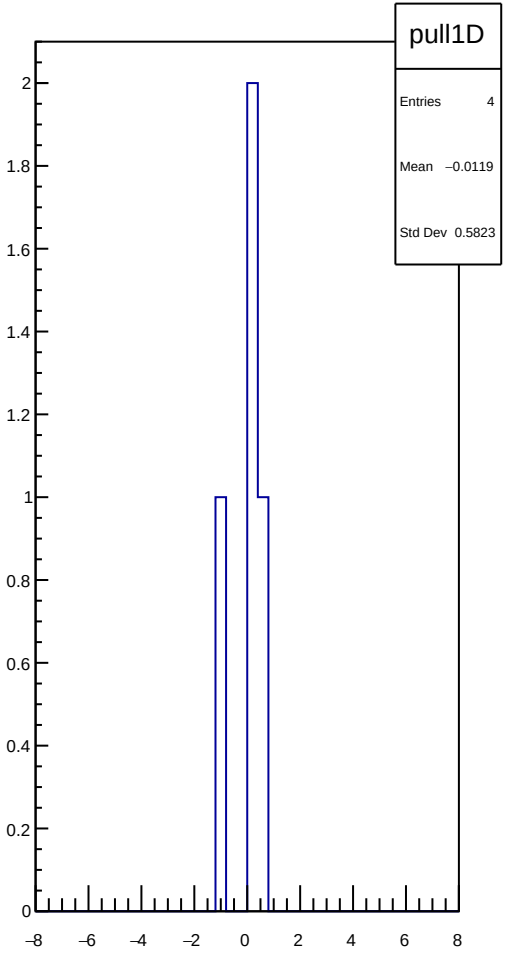

reg_asym_sam_48_dd_rms vs run
χ² / ndf 313.5 / 3
p0 149.2 ± 0.5072
170
165
160
155
150
145
140
5928. 0
5929. 0
5929. 1
5929. 2

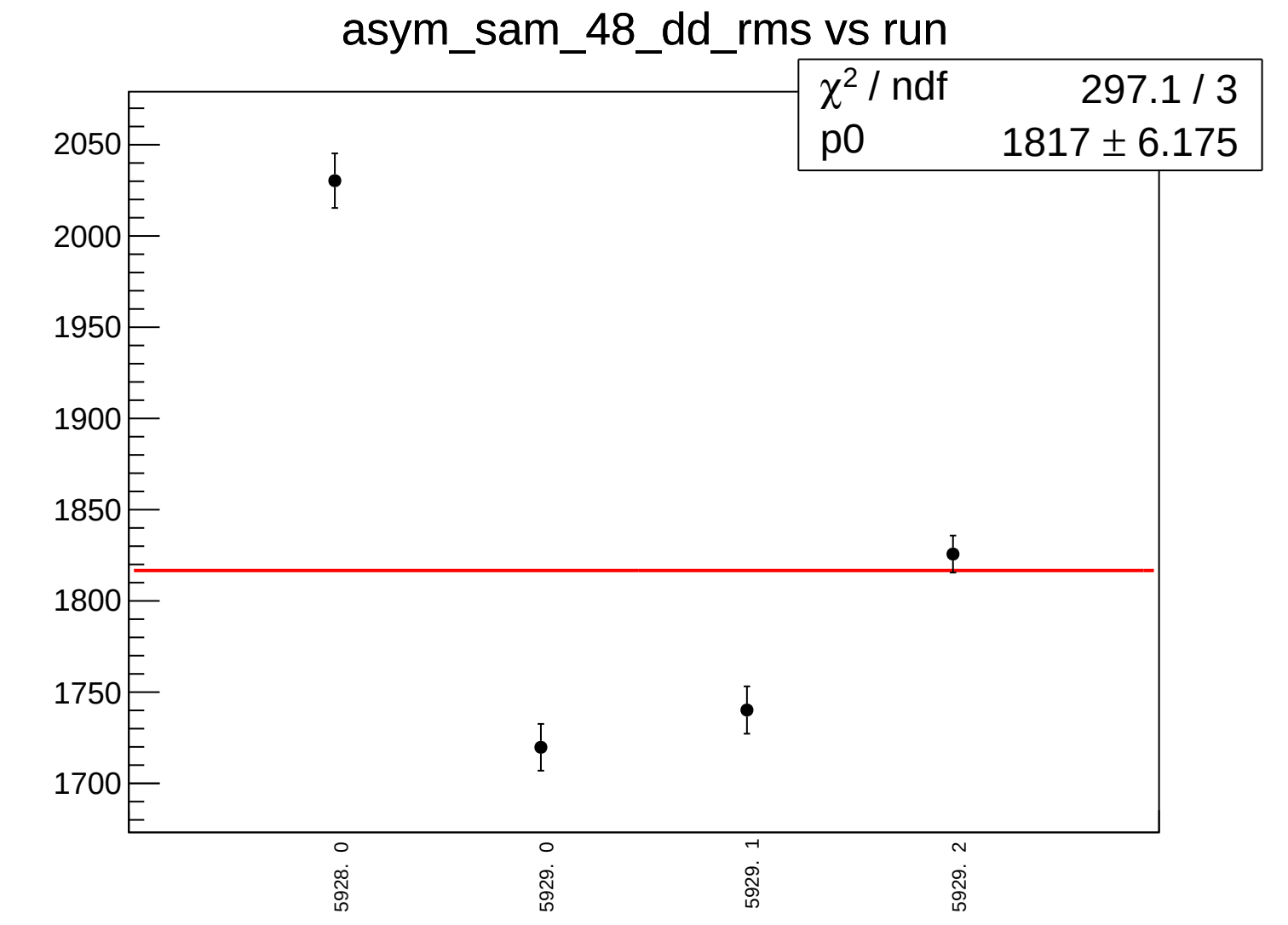

asym_sam_48_dd_correction_mean vs run
χ² / ndf 1.447 / 3
p0 −1.548e+04 ± 8703
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −21.18
Std Dev 23.56
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.01073
Std Dev 0.6013
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

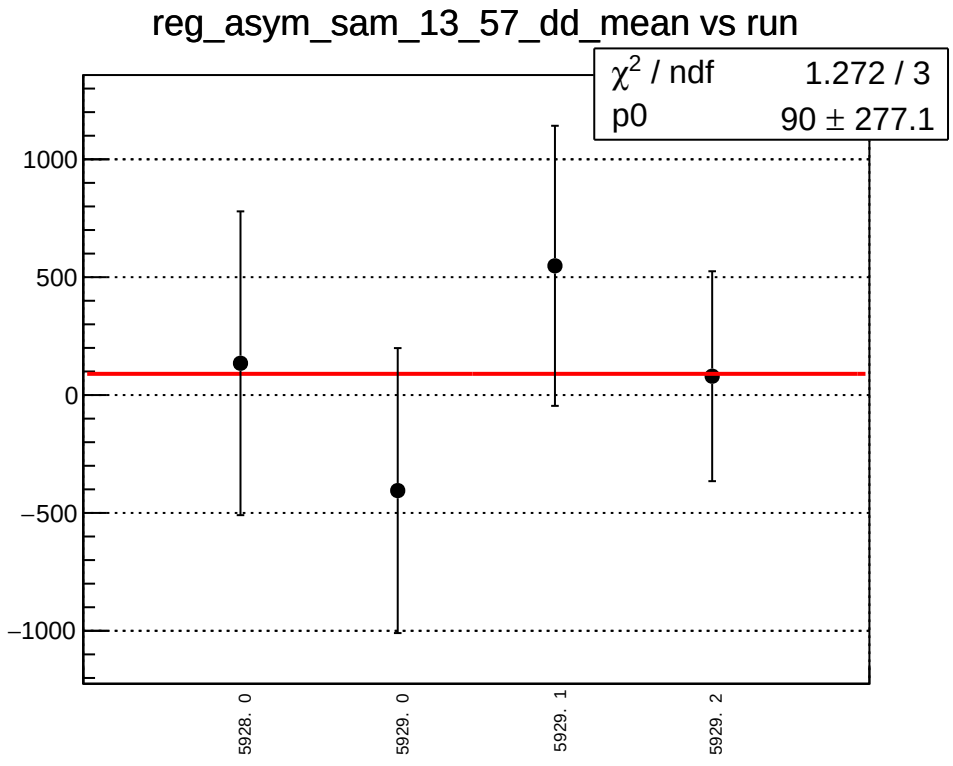

asym_sam_48_dd_correction_rms vs run
χ² / ndf 297 / 3
p0 1811 ± 6.154
2050
2000
1950
1900
1850
1800
1750
1700
5928. 0
5929. 0
5929. 1
5929. 2

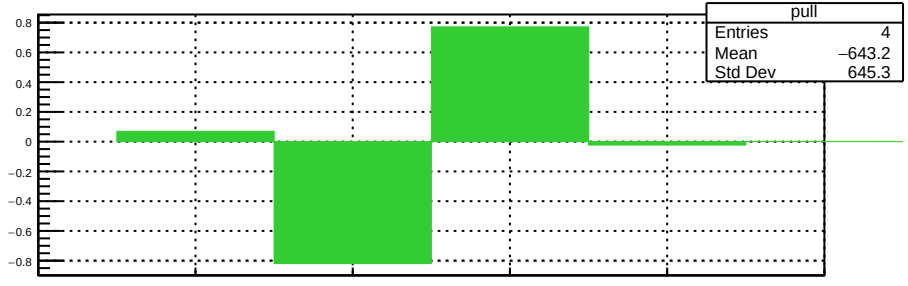

asym_sam_48_dd_mean vs run
χ² / ndf 1.357 / 3
p0 1.613e+04 ± 8733
50000
40000
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2

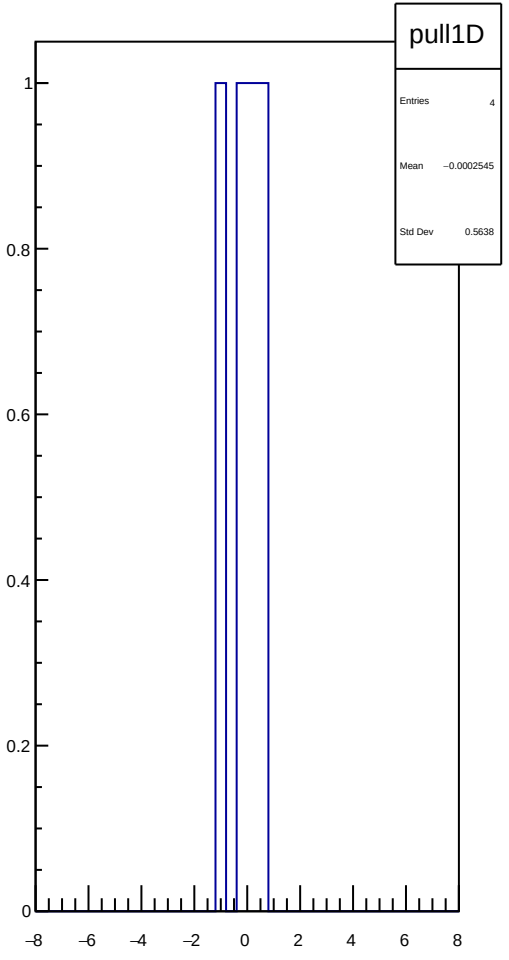

pull
Entries 4
Mean −20.78
Std Dev 23.01
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

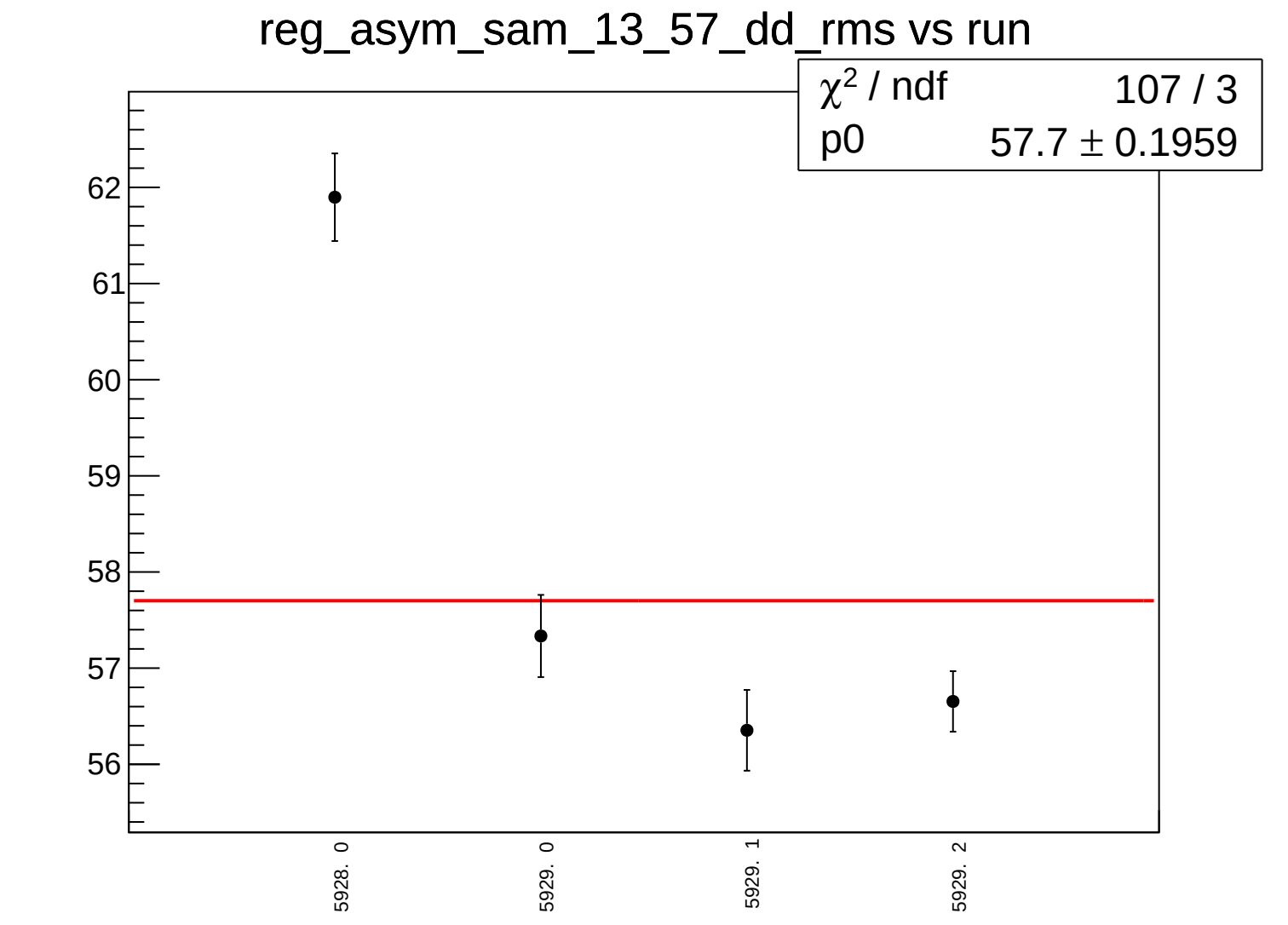

pull1D
Entries 4
Mean −0.0119
Std Dev 0.5823
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

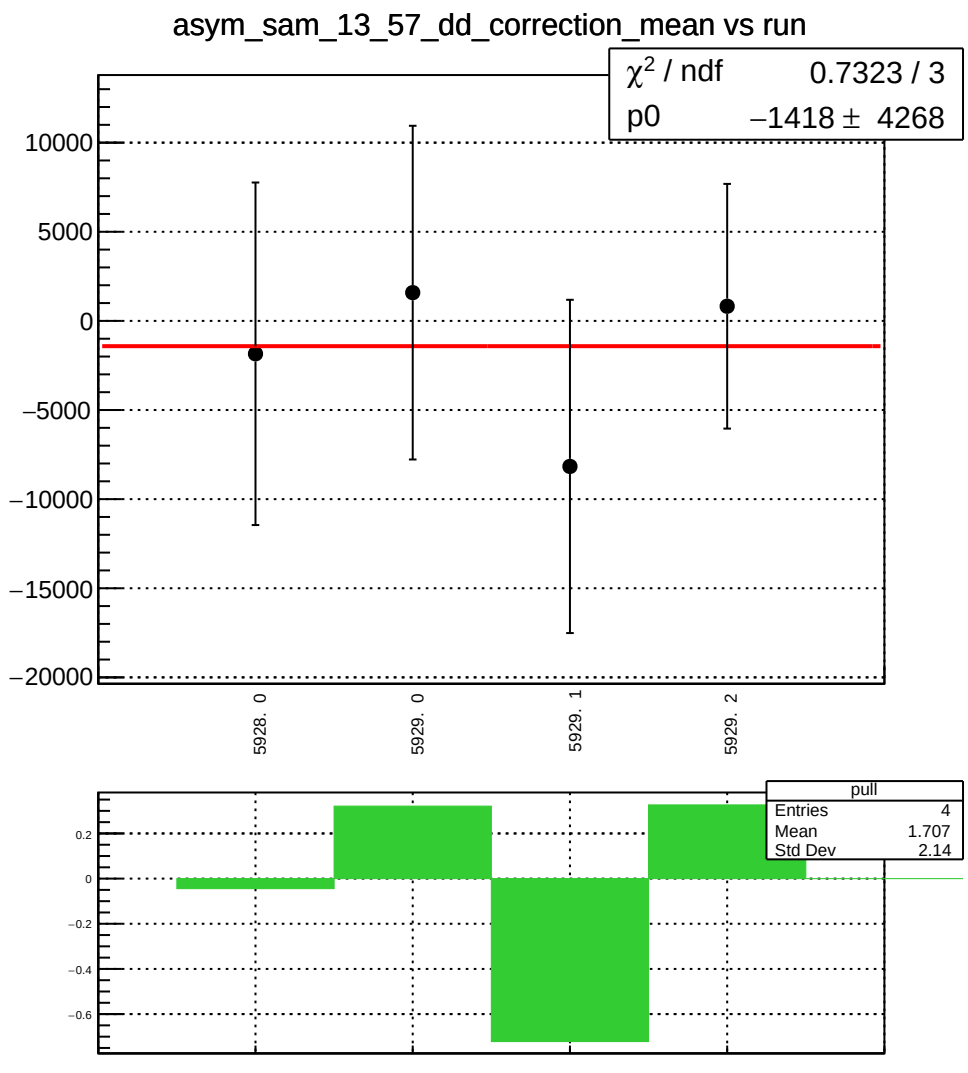

asym_sam_48_dd_rms vs run
χ² / ndf 297.1 / 3
p0 1817 ± 6.175
2050
2000
1950
1900
1850
1800
1750
1700
5928. 0
5929. 0
5929. 1
5929. 2

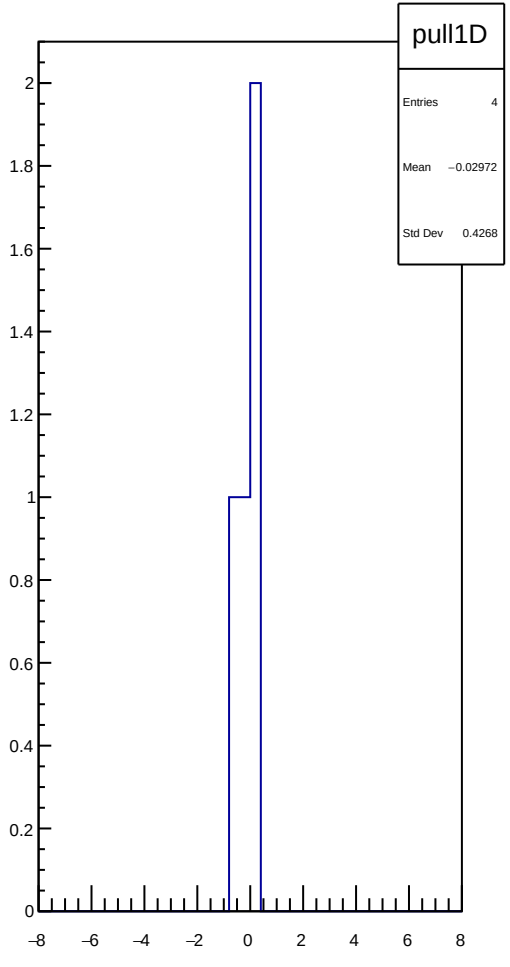

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 1.272 / 3
p0 90 ± 277.1
1000
500
0
−500
−1000
5928. 0
5929. 0
5929. 1
5929. 2

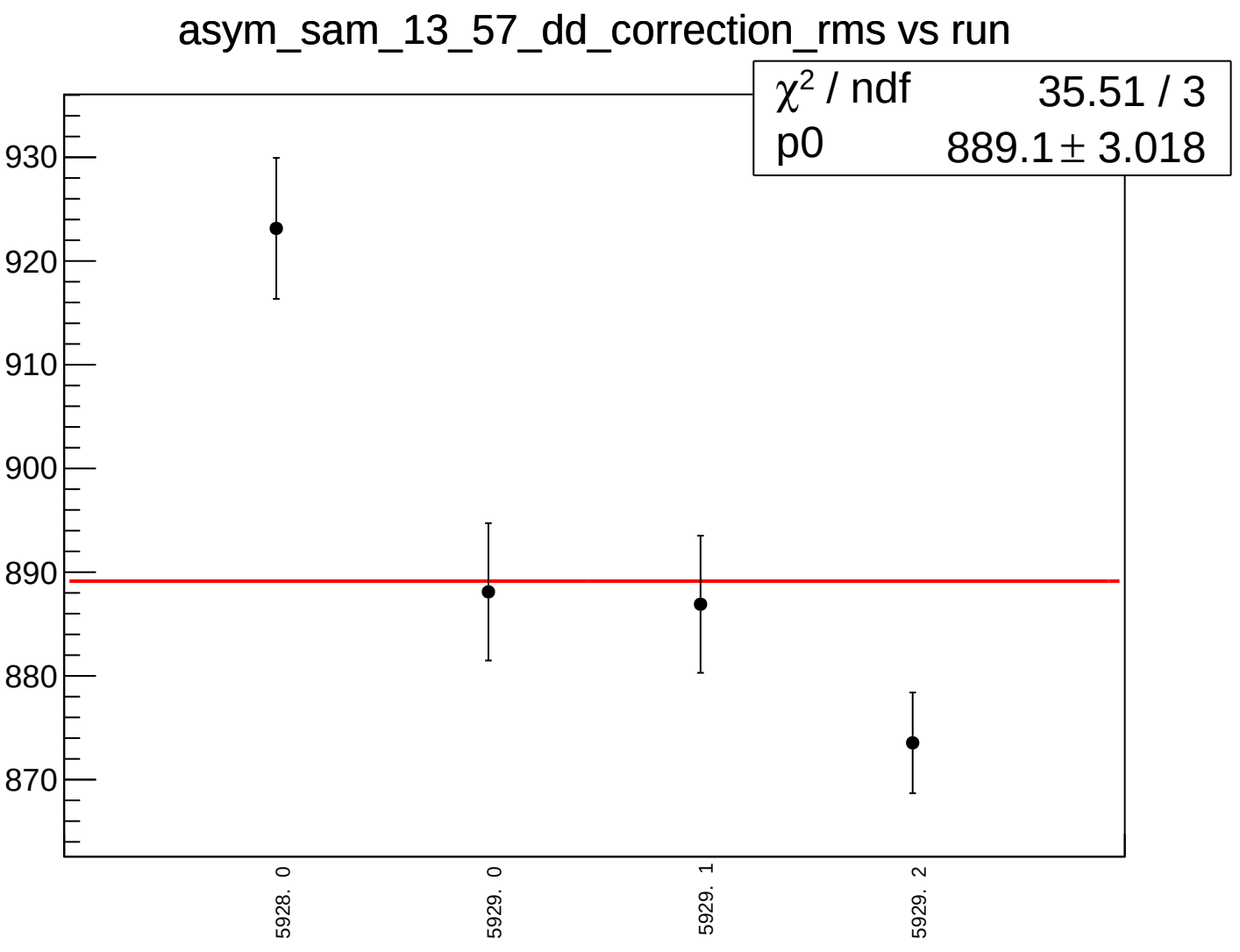

pull
Entries 4
Mean −643.2
Std Dev 645.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

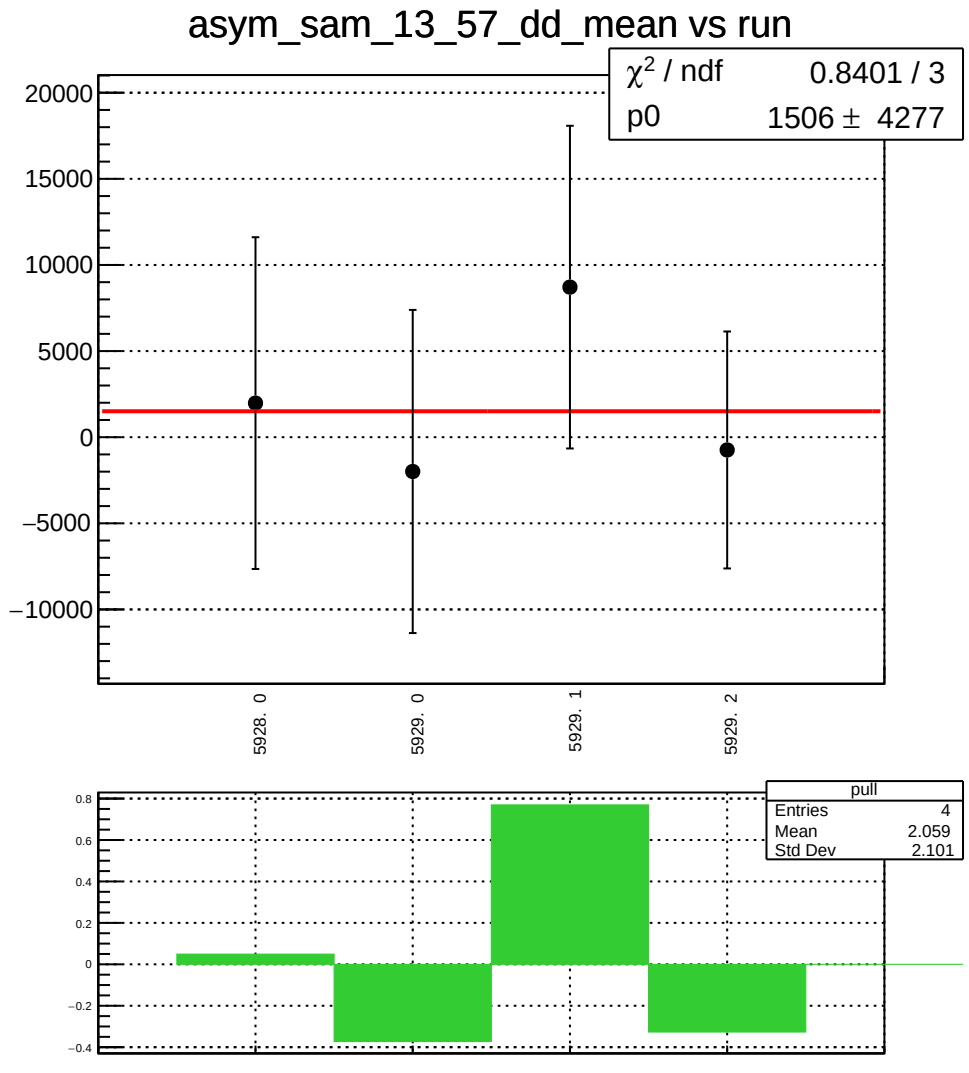

pull1D
Entries 4
Mean −0.0002545
Std Dev 0.5638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

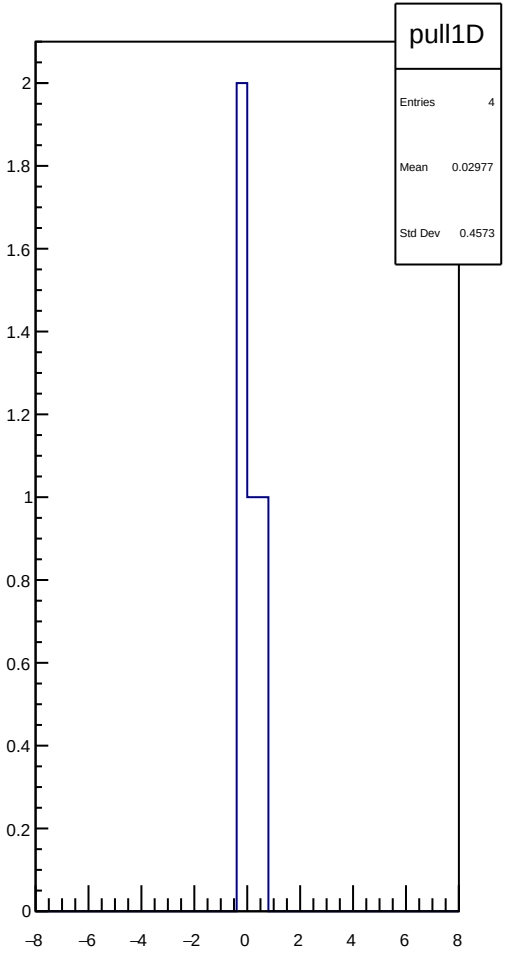

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 107 / 3
p0 57.7 ± 0.1959
62
61
60
59
58
57
56
5928. 0
5929. 0
5929. 1
5929. 2

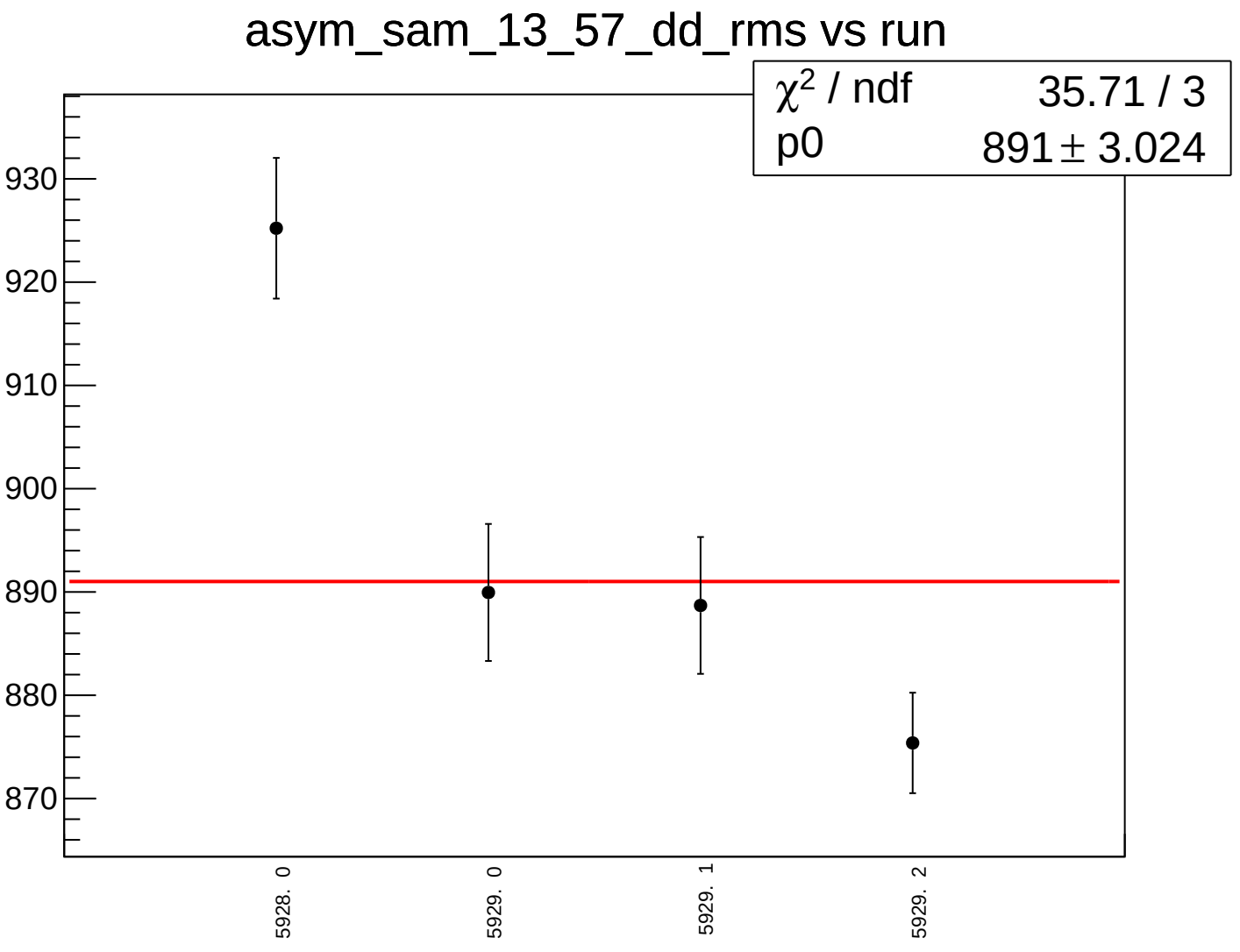

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 0.7323 / 3
p0 −1418 ± 4268
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.707
Std Dev 2.14
0.2
0
−0.2
−0.4
−0.6

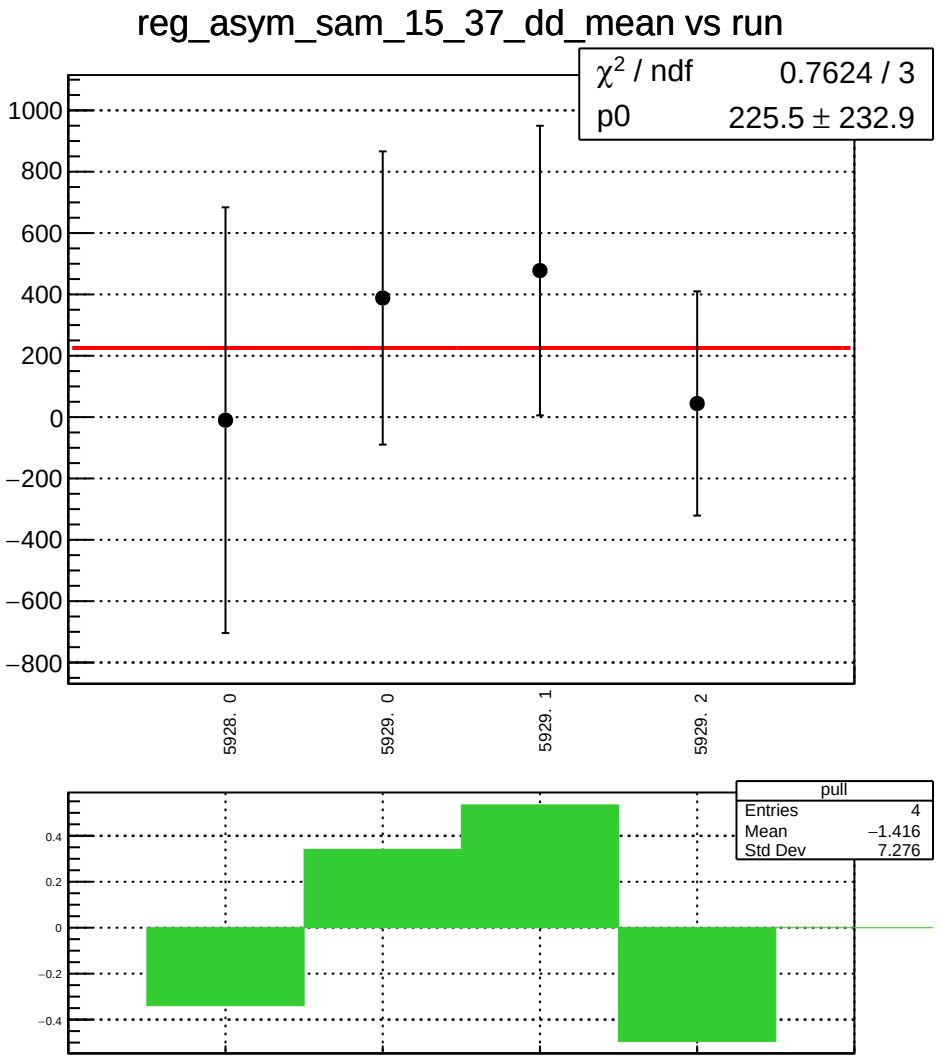

pull1D
Entries 4
Mean −0.02972
Std Dev 0.4268
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

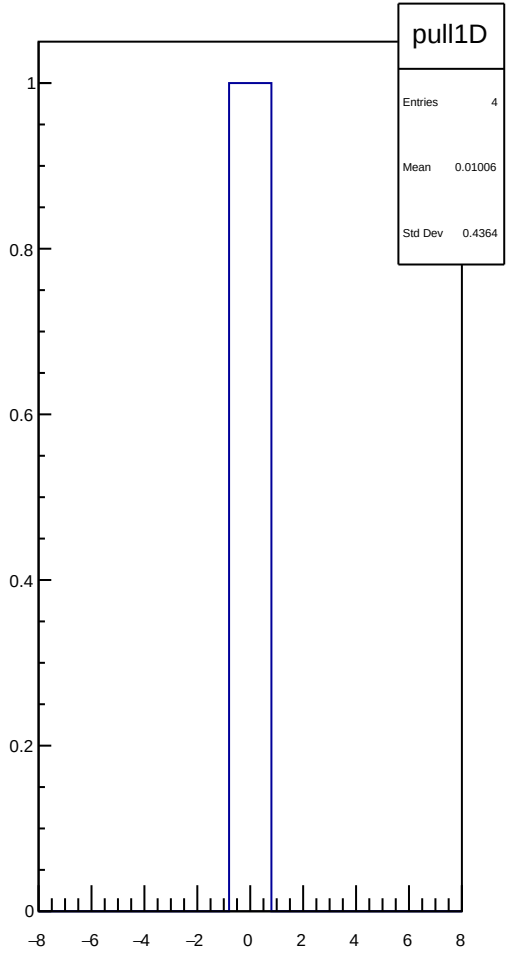

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 35.51 / 3
p0 889.1 ± 3.018
930
920
910
900
890
880
870
5928. 0
5929. 0
5929. 1
5929. 2

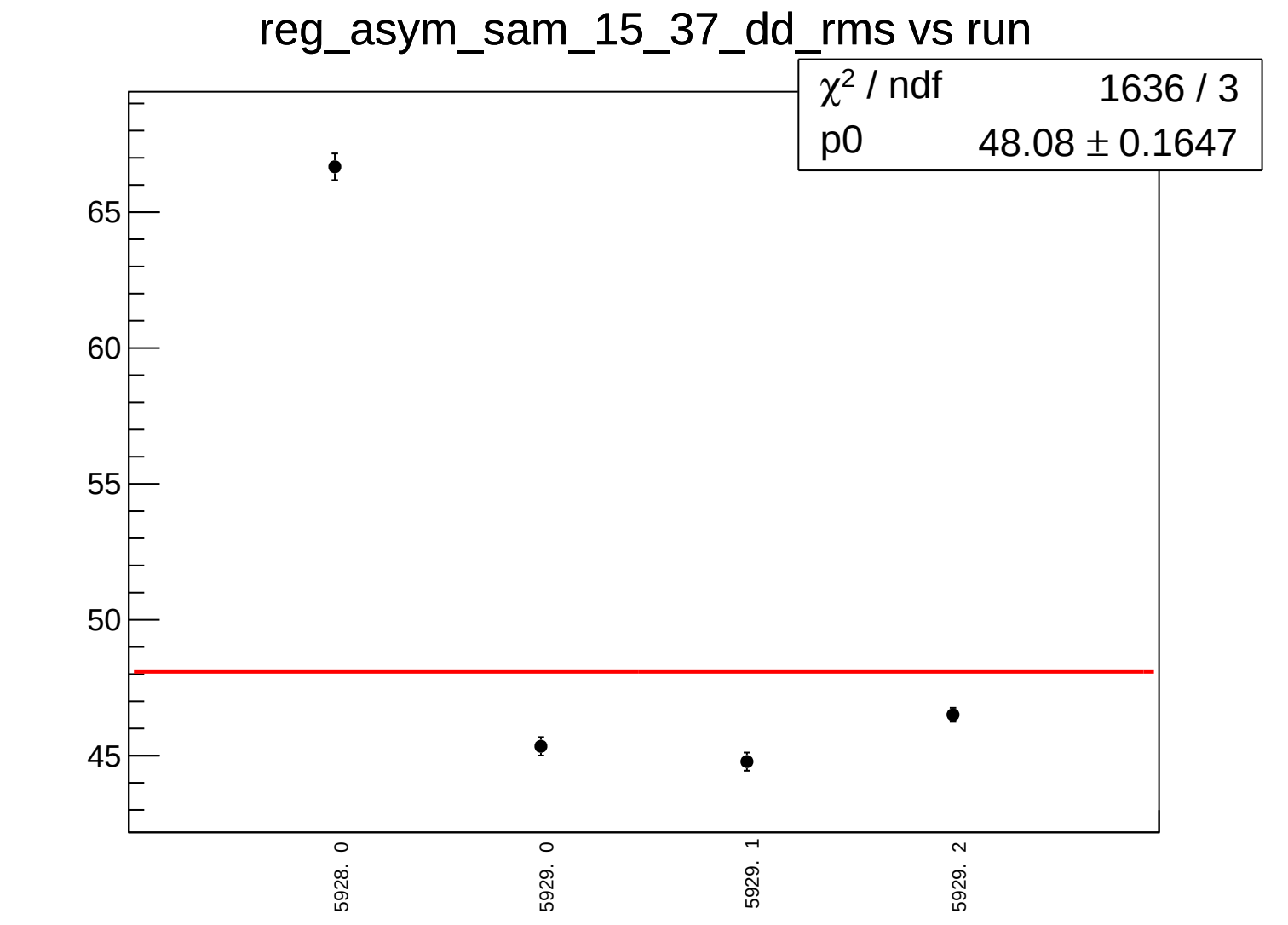

asym_sam_13_57_dd_mean vs run
χ² / ndf 0.8401 / 3
p0 1506 ± 4277
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.059
Std Dev 2.101
0.8
0.6
0.4
0.2
0
−0.2
−0.4

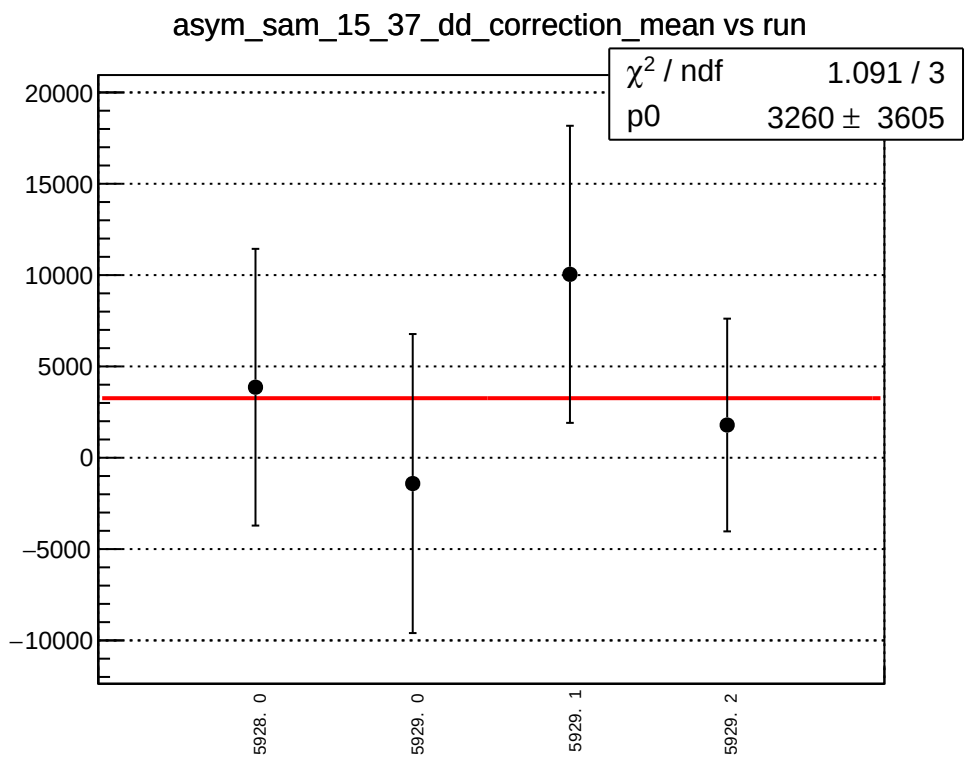

pull1D
Entries 4
Mean 0.02977
Std Dev 0.4573
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

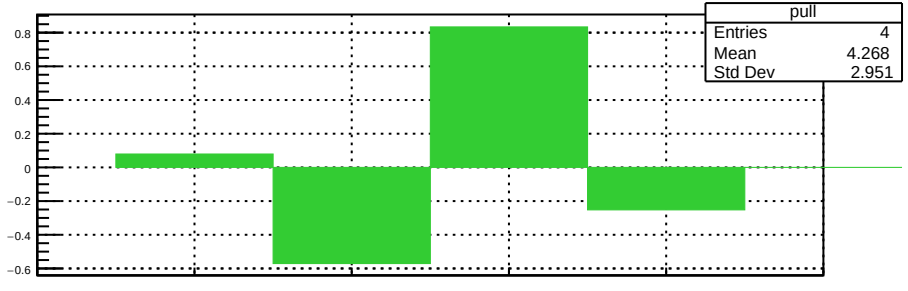

asym_sam_13_57_dd_rms vs run
χ² / ndf 35.71 / 3
p0 891 ± 3.024
930
920
910
900
890
880
870
5928. 0
5929. 0
5929. 1
5929. 2

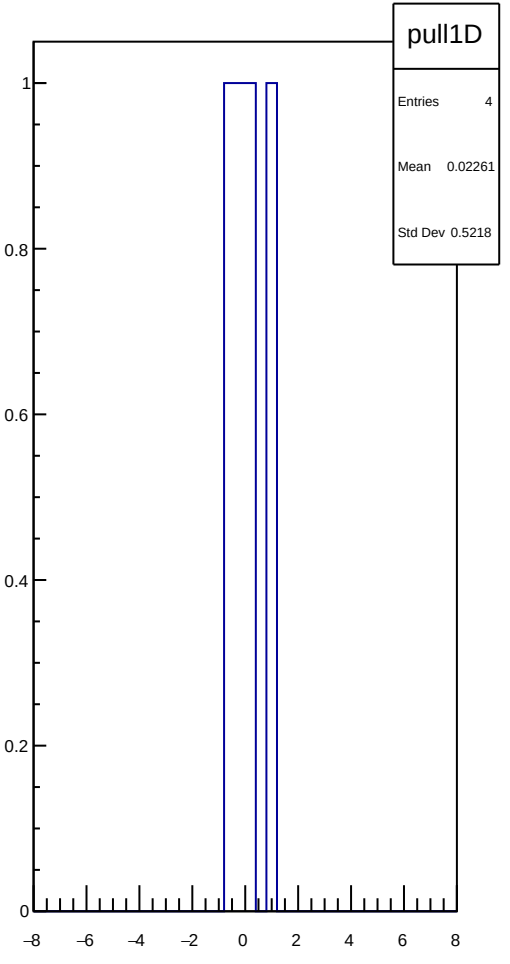

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 0.7624 / 3
p0 225.5 ± 232.9
1000
800
600
400
200
0
−200
−400
−600
−800
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.416
Std Dev 7.276
0.4
0.2
0
−0.2
−0.4

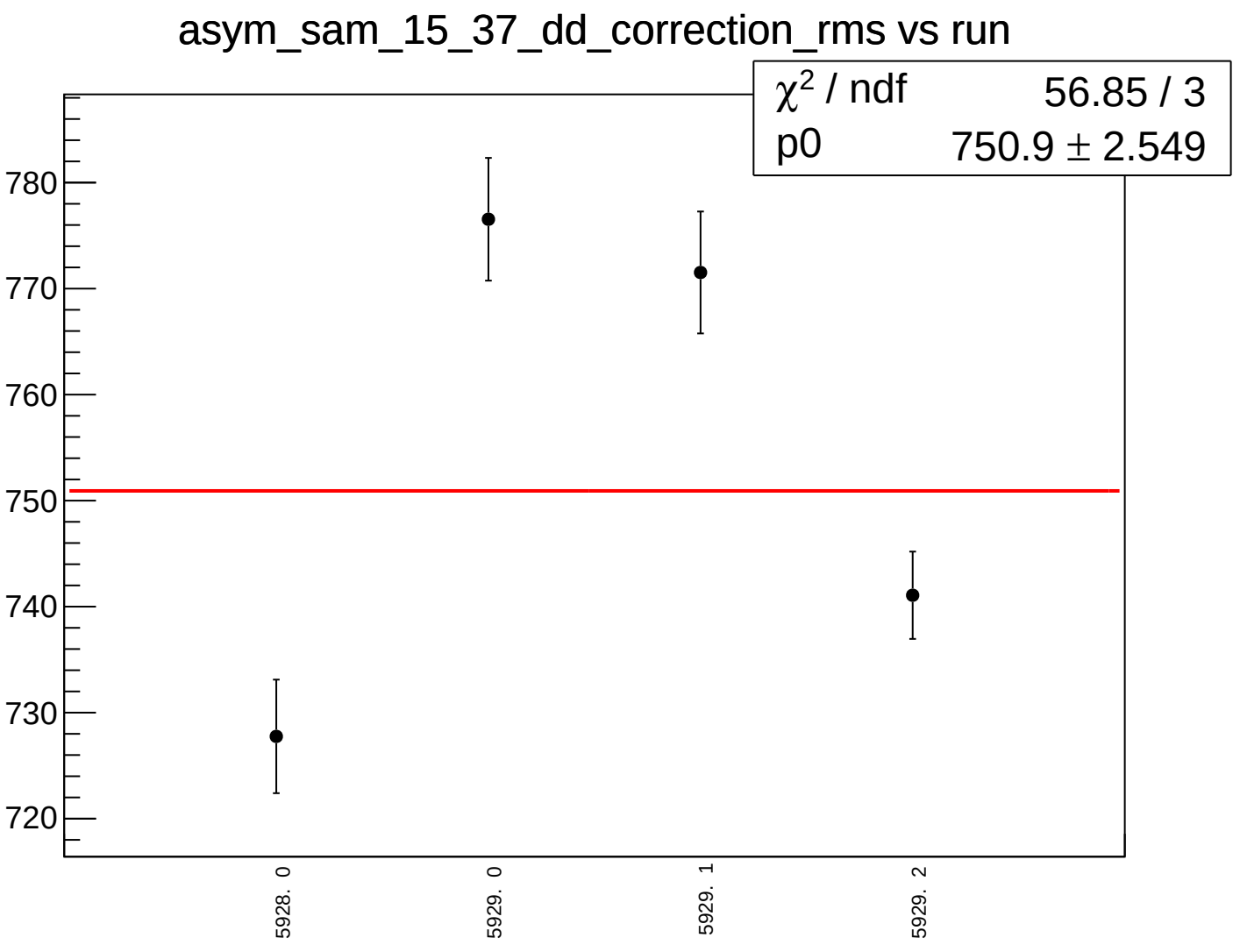

pull1D
Entries 4
Mean 0.01006
Std Dev 0.4364
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

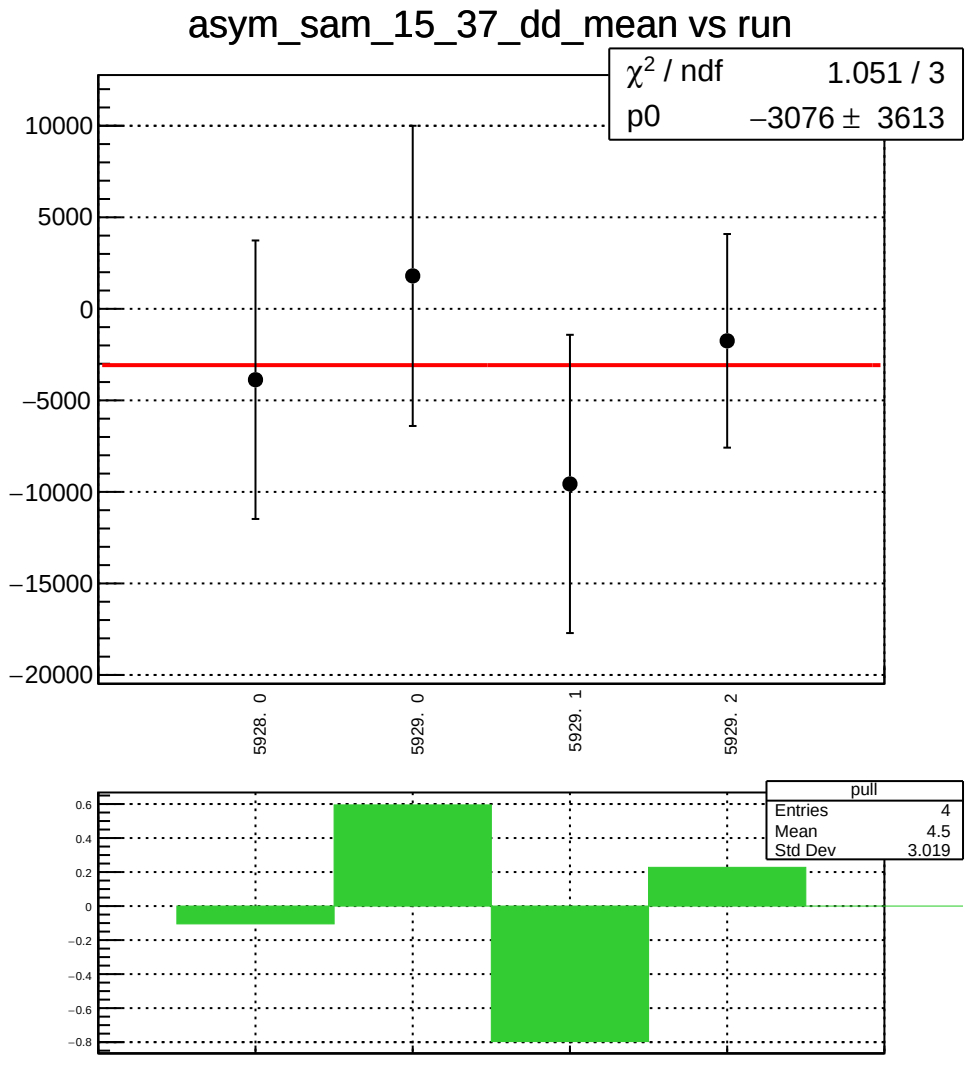

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1636 / 3
p0 48.08 ± 0.1647
65
60
55
50
45
5928. 0
5929. 0
5929. 1
5929. 2

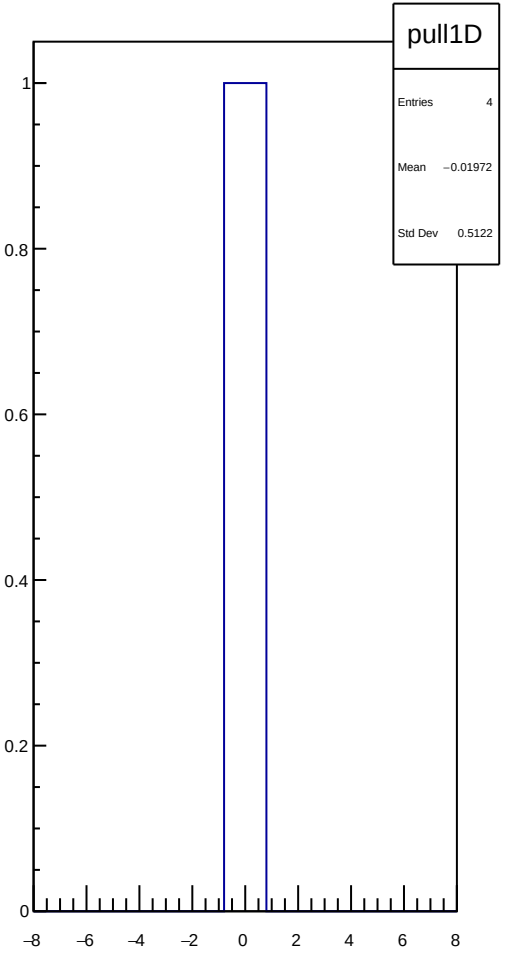

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 1.091 / 3
p0 3260 ± 3605
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

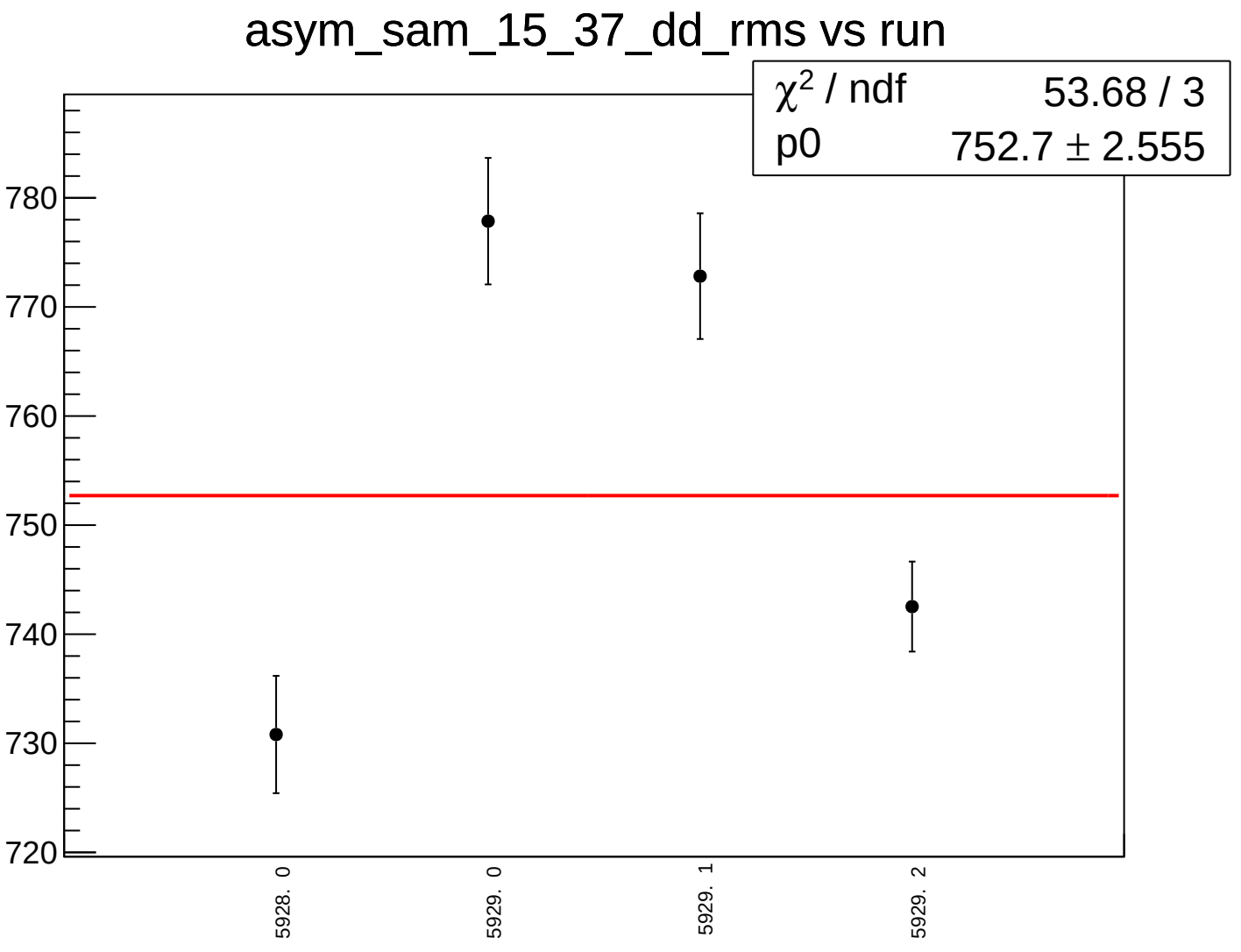

pull
Entries 4
Mean 4.268
Std Dev 2.951
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

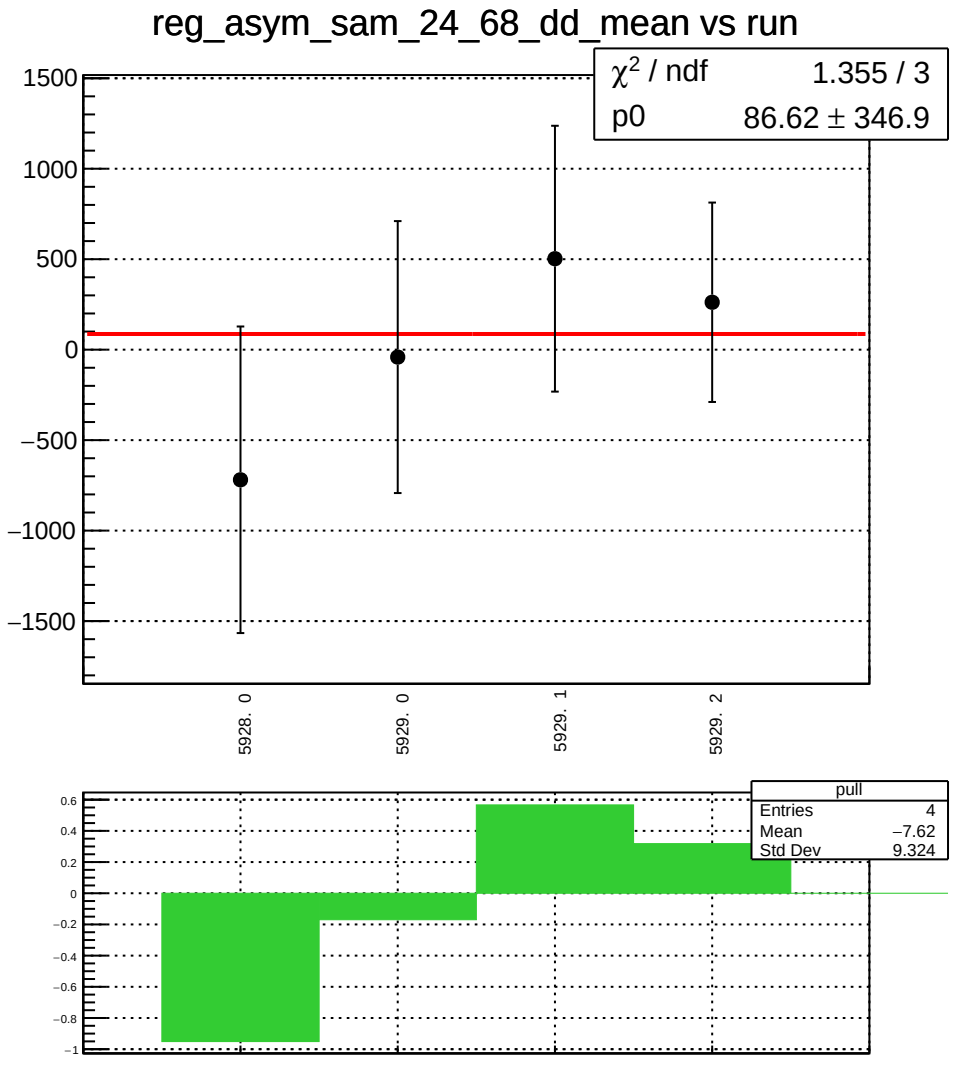

pull1D
Entries 4
Mean 0.02261
Std Dev 0.5218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

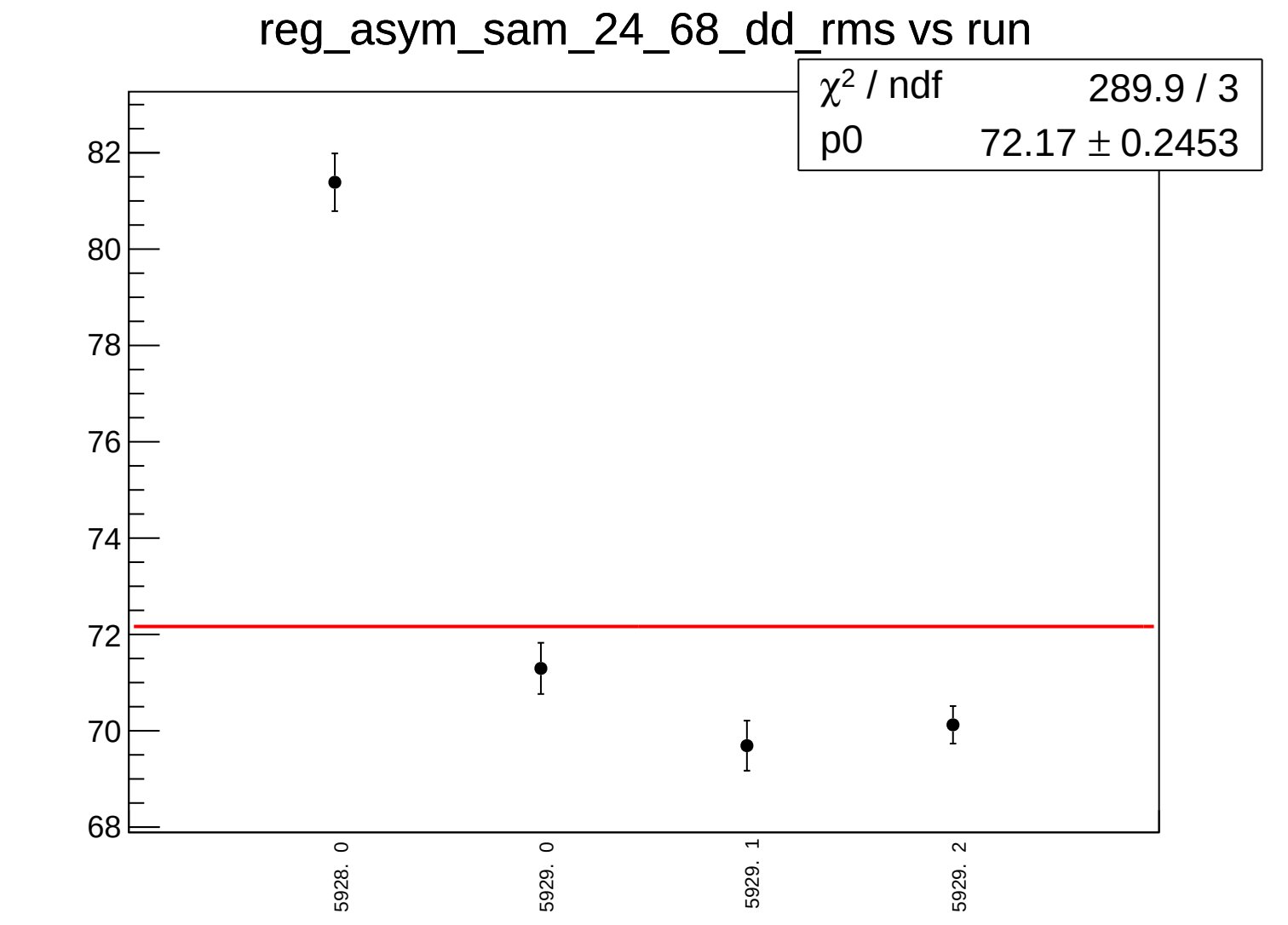

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 56.85 / 3
p0 750.9 ± 2.549
780
770
760
750
740
730
720
5928. 0
5929. 0
5929. 1
5929. 2

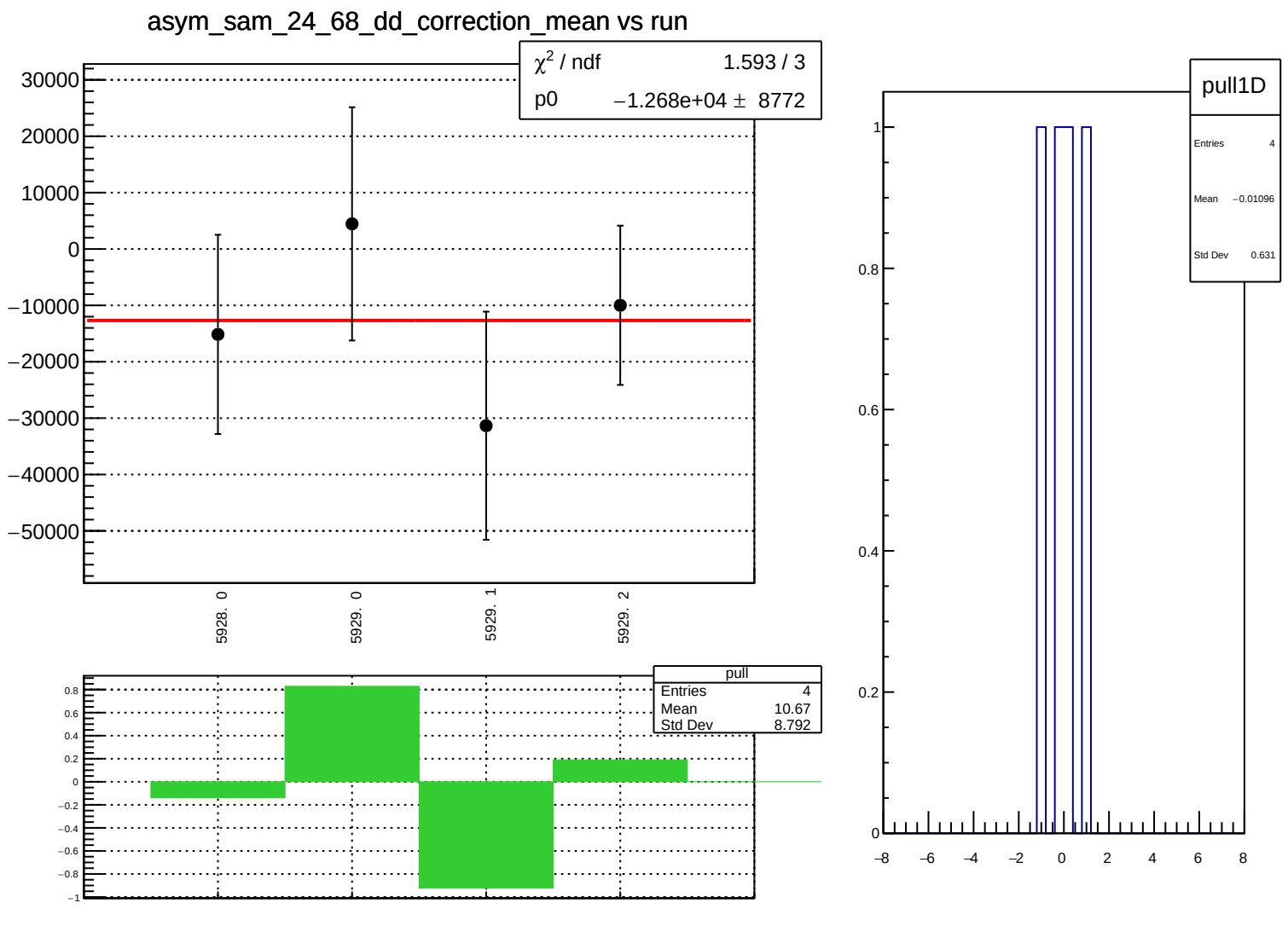

asym_sam_15_37_dd_mean vs run
χ² / ndf 1.051 / 3
p0 −3076 ± 3613
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.5
Std Dev 3.019
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

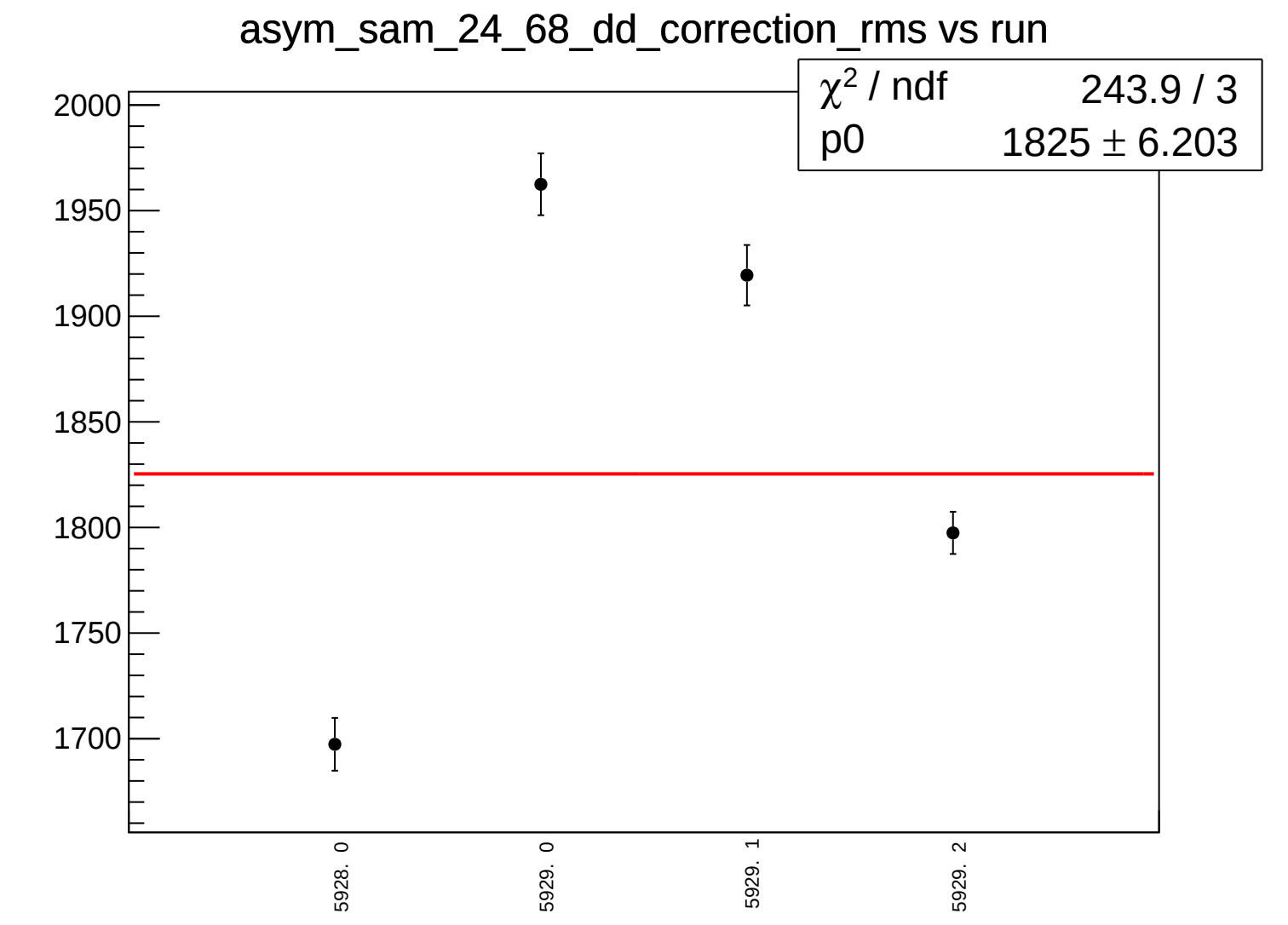

pull1D
Entries 4
Mean −0.01972
Std Dev 0.5122
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

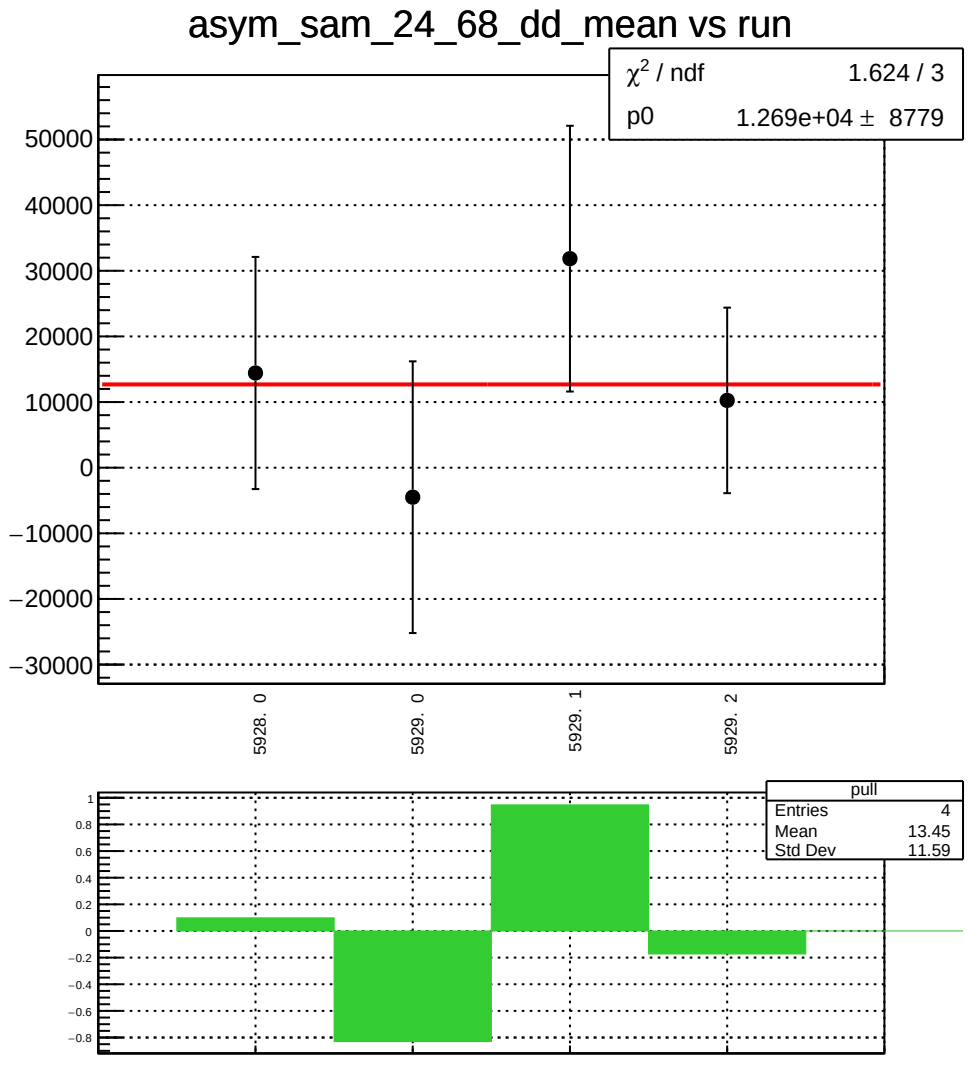

asym_sam_15_37_dd_rms vs run
χ² / ndf 53.68 / 3
p0 752.7 ± 2.555
780
770
760
750
740
730
720
5928. 0
5929. 0
5929. 1
5929. 2

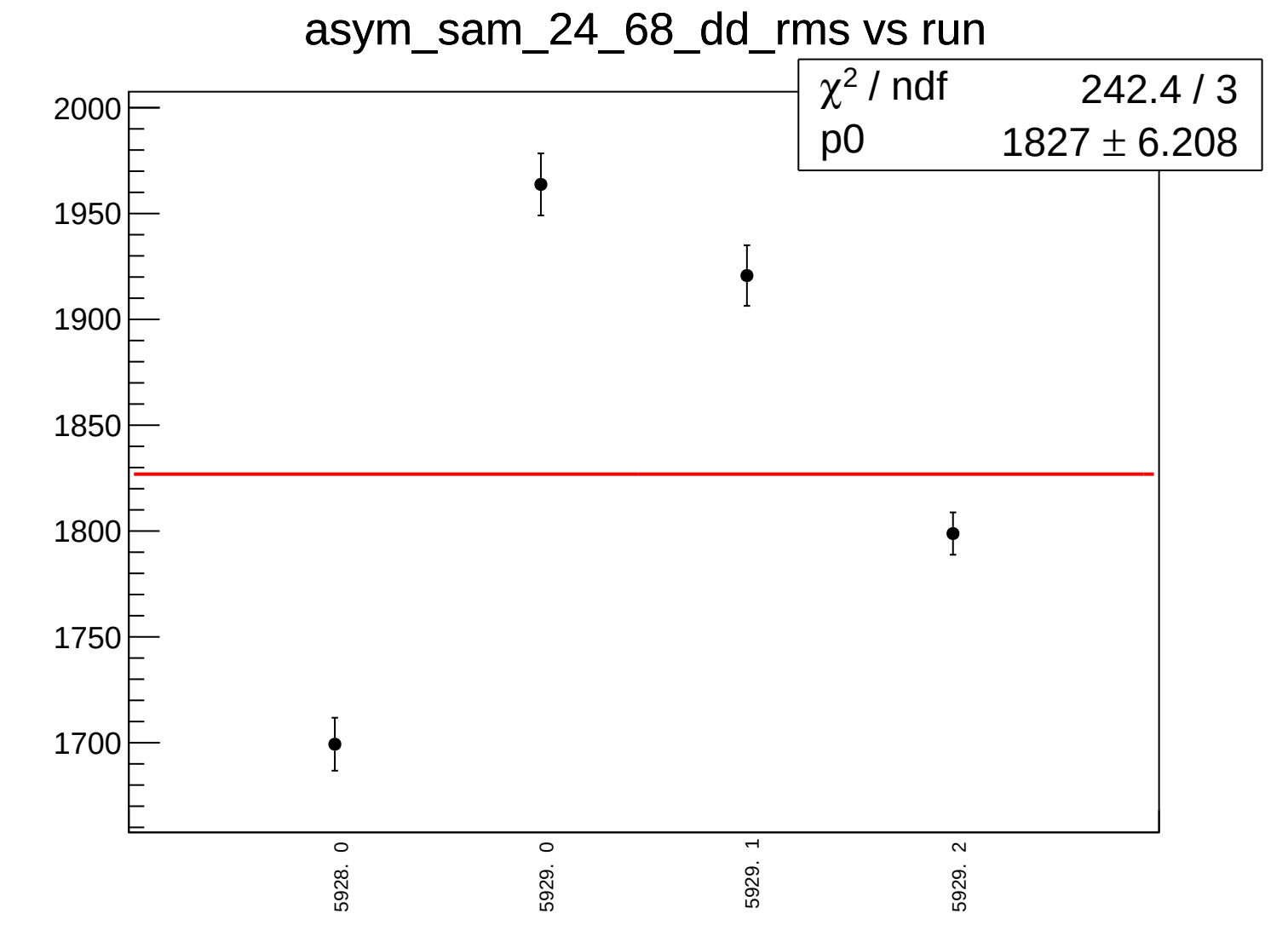

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 1.355 / 3
p0 86.62 ± 346.9
1500
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.62
Std Dev 9.324
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.05904
Std Dev 0.5791
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

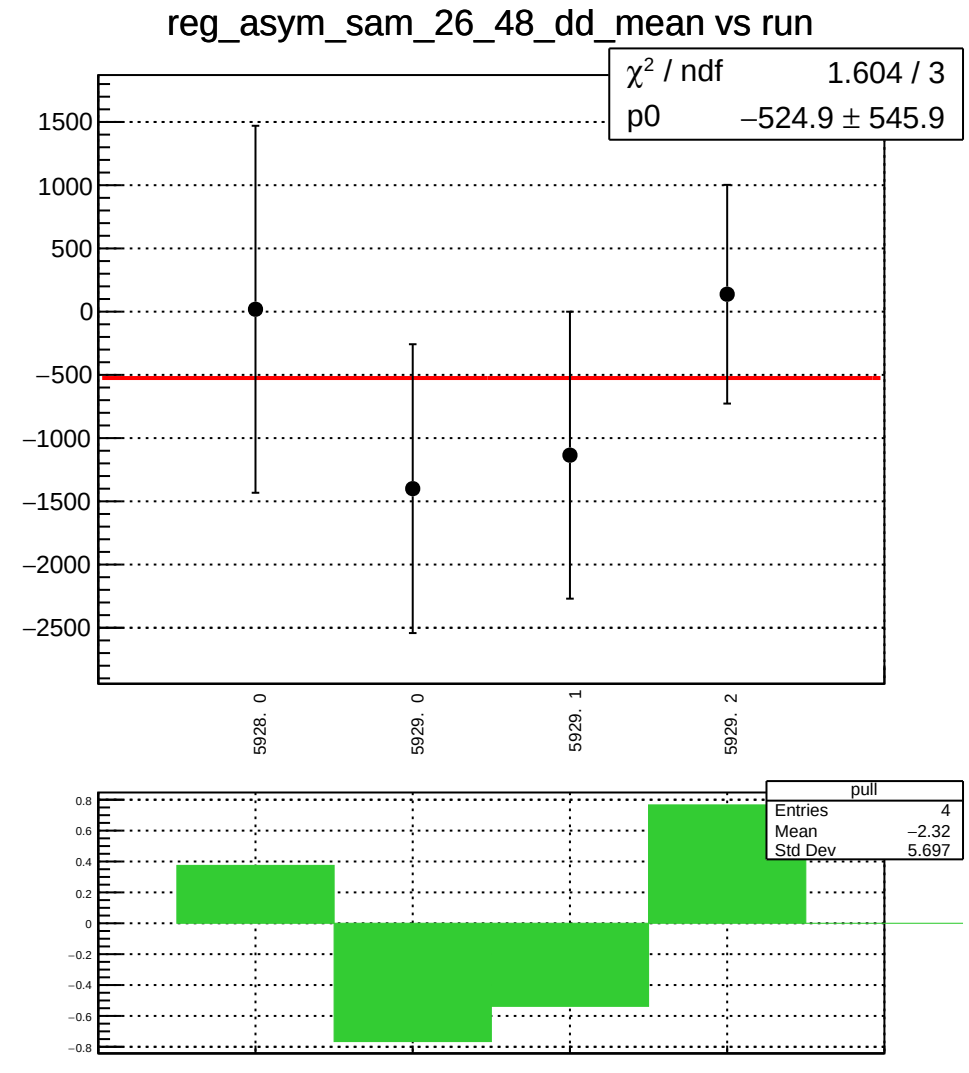

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 289.9 / 3
p0 72.17 ± 0.2453
82
80
78
76
74
72
70
68
5928. 0
5929. 0
5929. 1
5929. 2

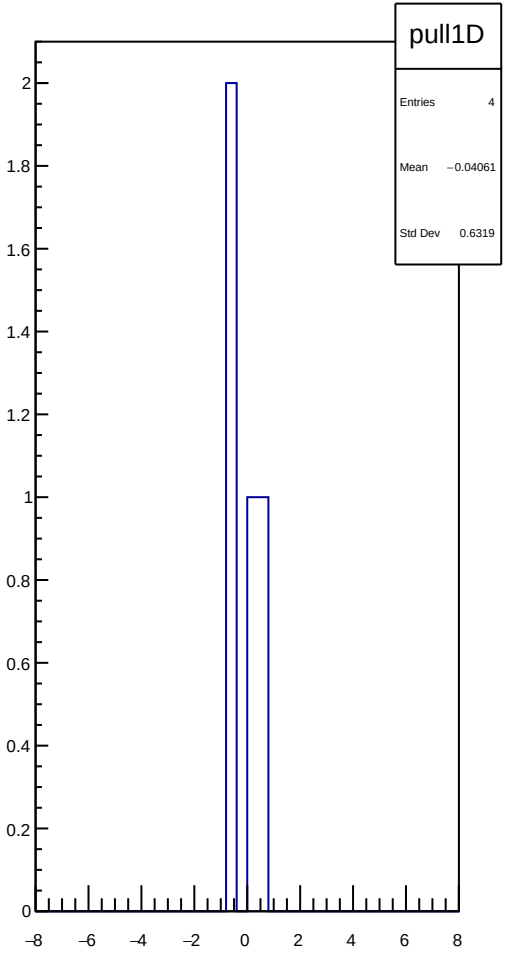

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 1.593 / 3
p0 −1.268e+04 ± 8772
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.67
Std Dev 8.792
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.01096
Std Dev 0.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

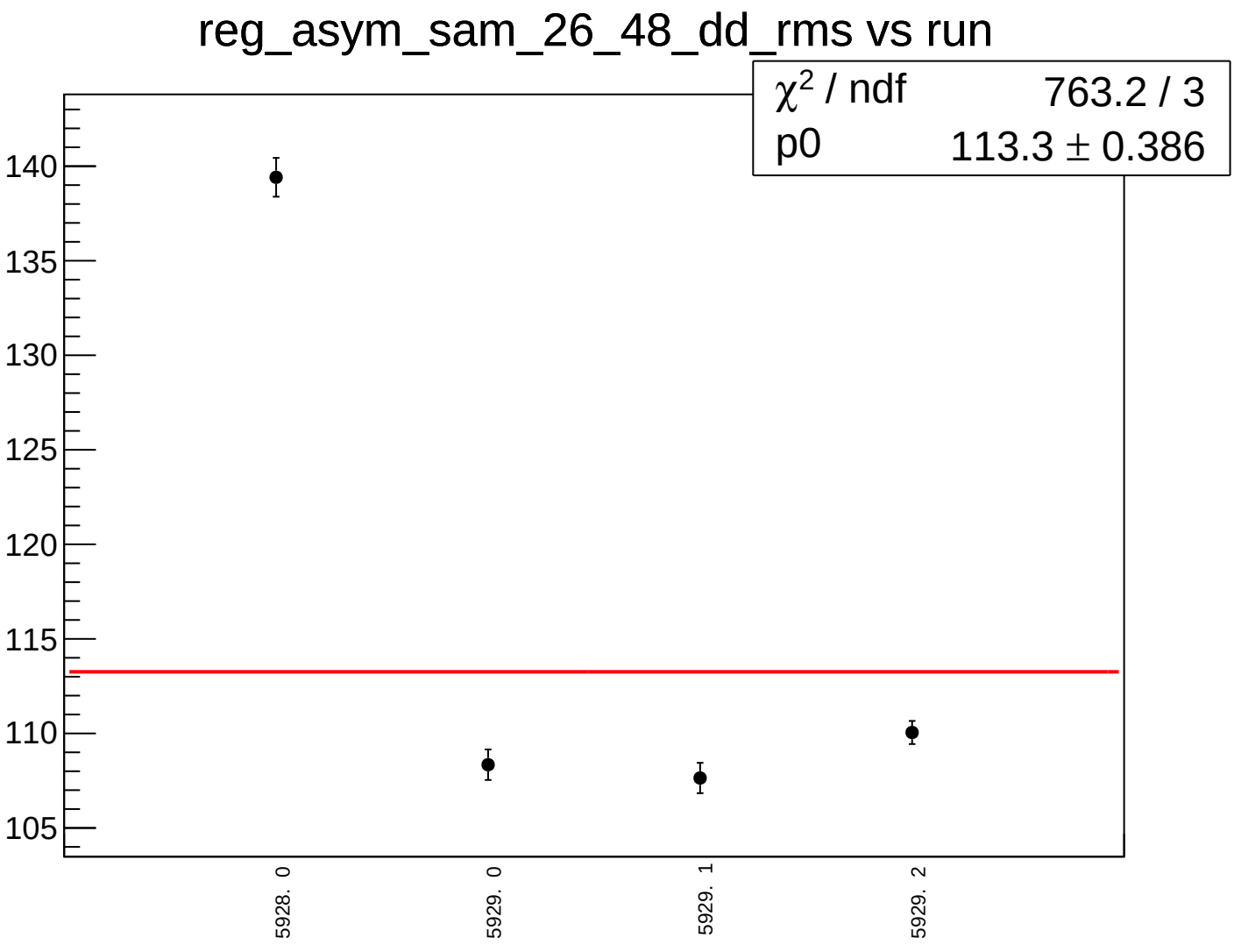

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 243.9 / 3
p0 1825 ± 6.203
2000
1950
1900
1850
1800
1750
1700
5928. 0
5929. 0
5929. 1
5929. 2

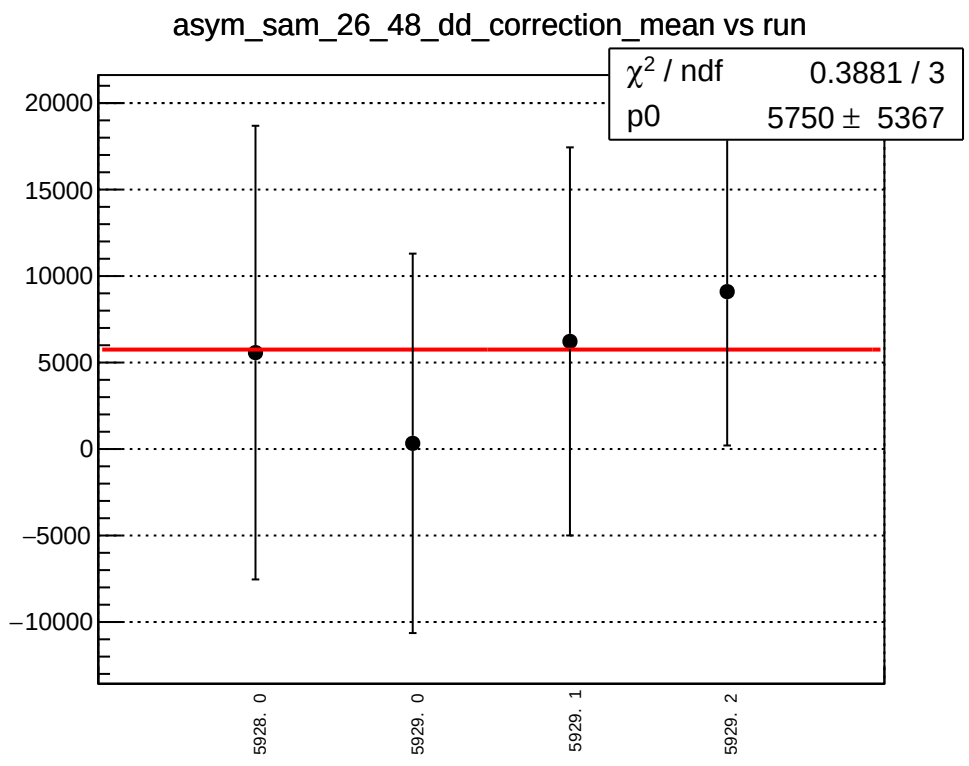

asym_sam_24_68_dd_mean vs run
χ² / ndf 1.624 / 3
p0 1.269e+04 ± 8779
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.45
Std Dev 11.59
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.01053
Std Dev 0.6372
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

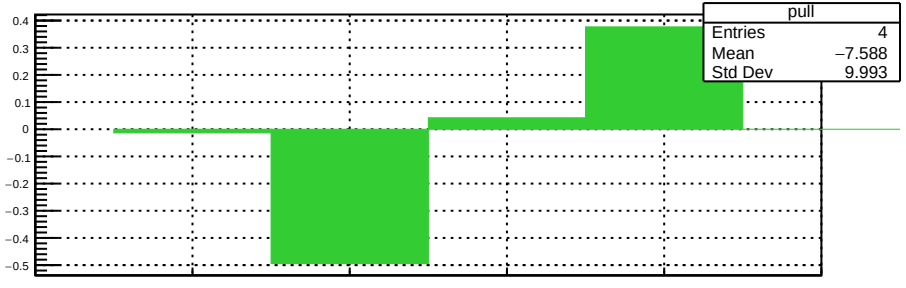

asym_sam_24_68_dd_rms vs run
χ² / ndf 242.4 / 3
p0 1827 ± 6.208
2000
1950
1900
1850
1800
1750
1700
5928. 0
5929. 0
5929. 1
5929. 2

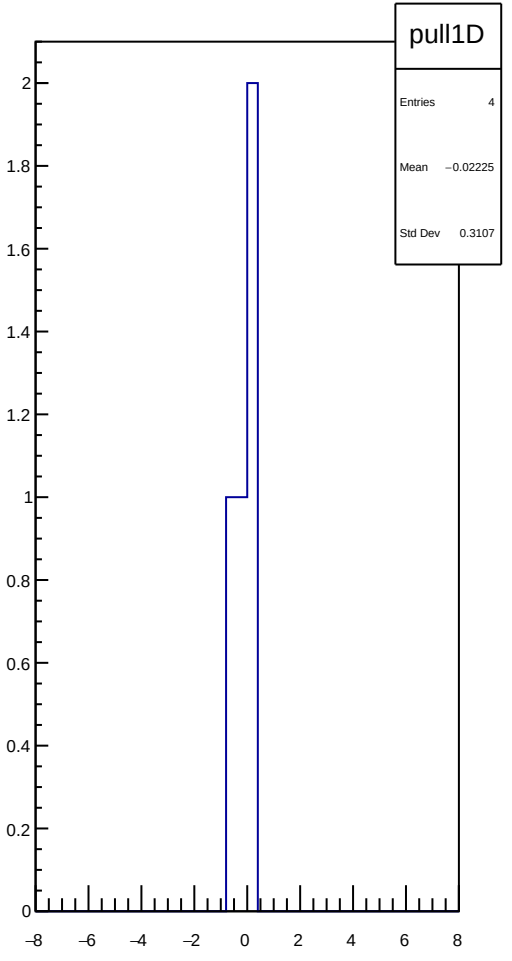

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 1.604 / 3
p0 −524.9 ± 545.9
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.32
Std Dev 5.697
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

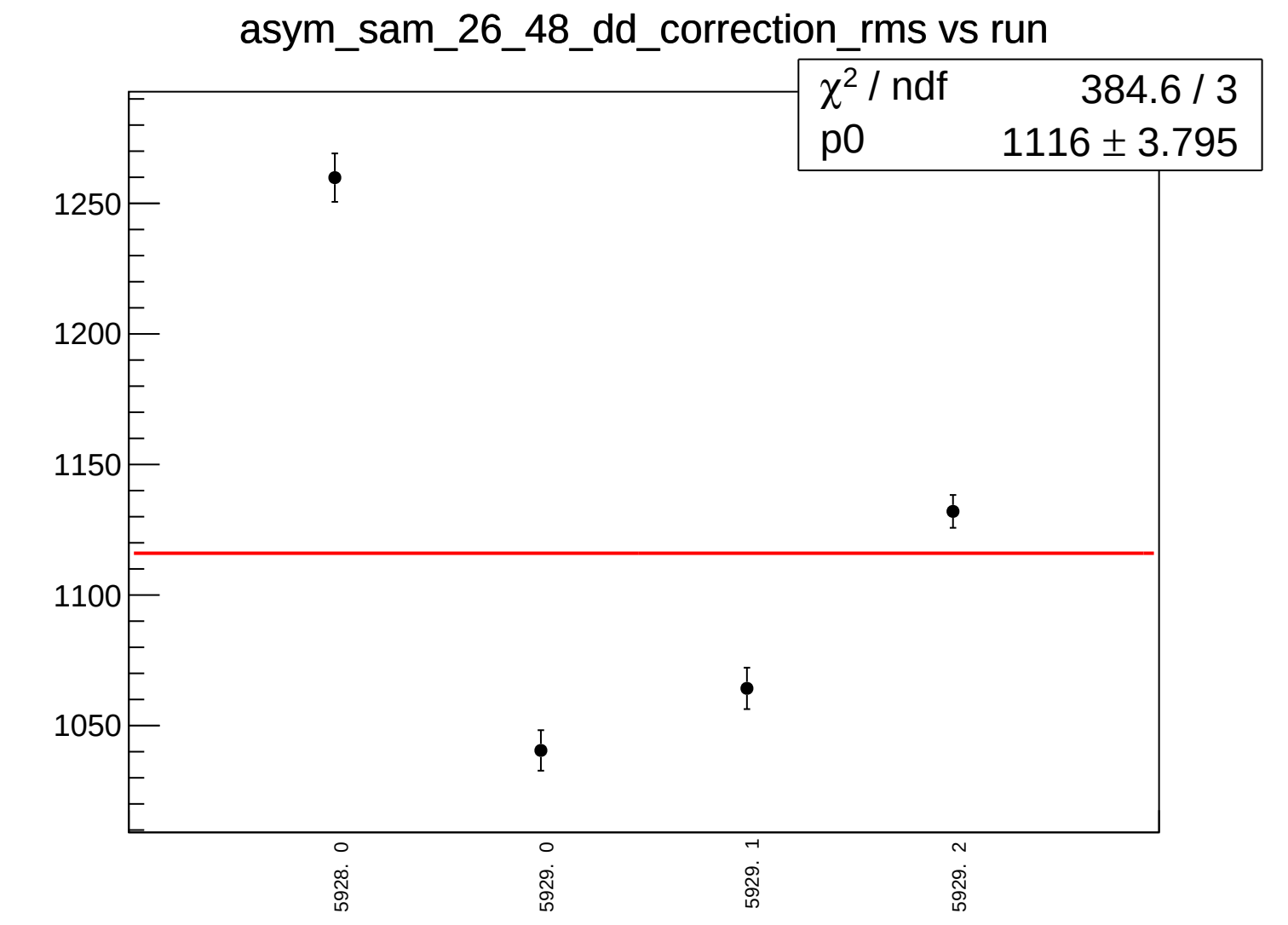

pull1D
Entries 4
Mean −0.04061
Std Dev 0.6319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

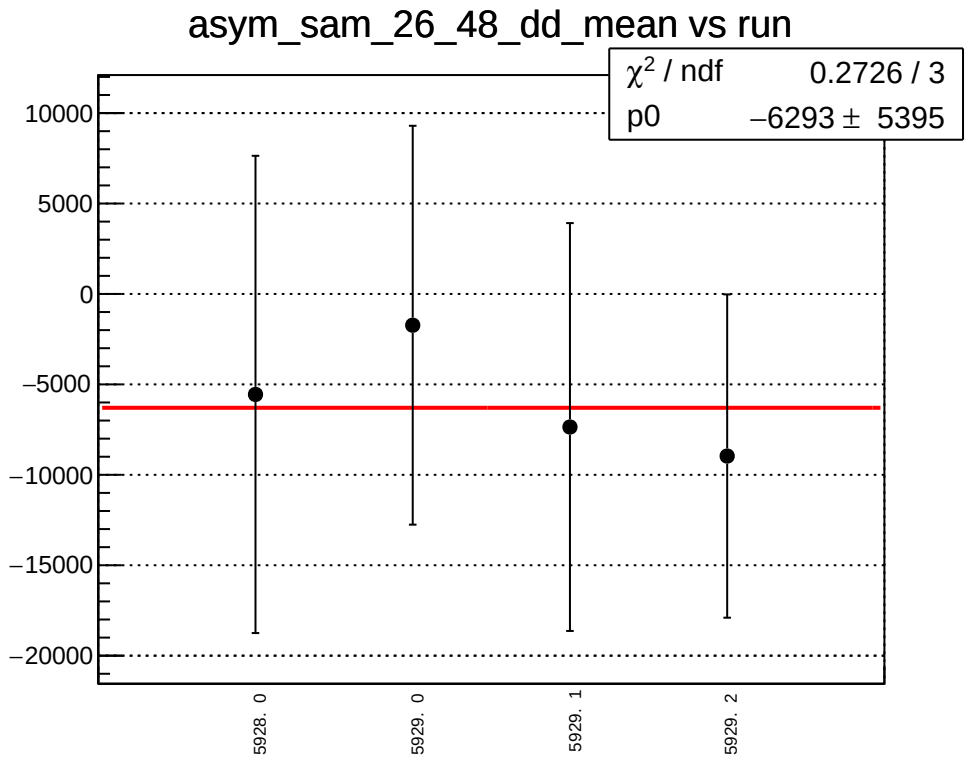

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 763.2 / 3
p0 113.3 ± 0.386
140
135
130
125
120
115
110
105
5928. 0
5929. 0
5929. 1
5929. 2

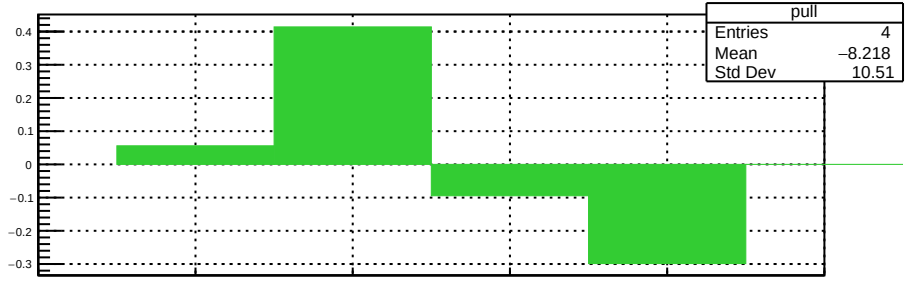

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 0.3881 / 3
p0 5750 ± 5367
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2

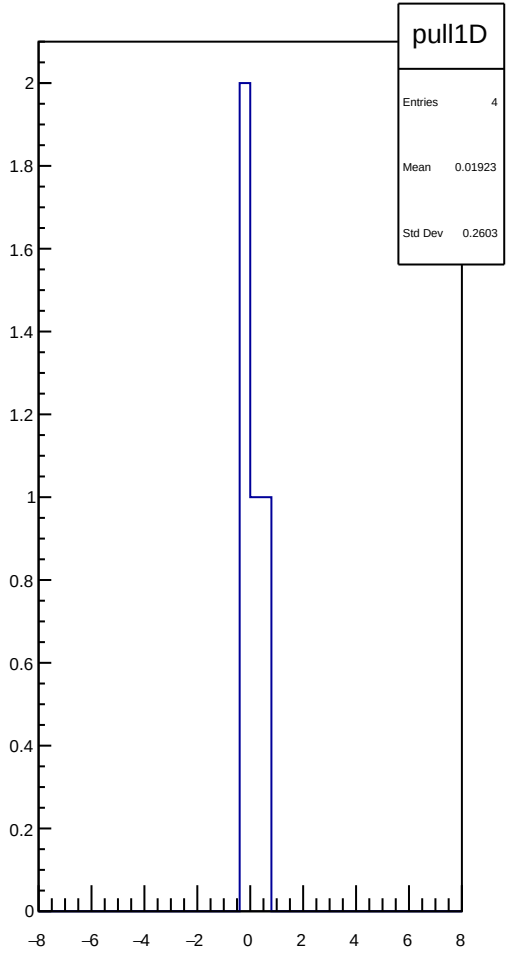

pull
Entries 4
Mean −7.588
Std Dev 9.993
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

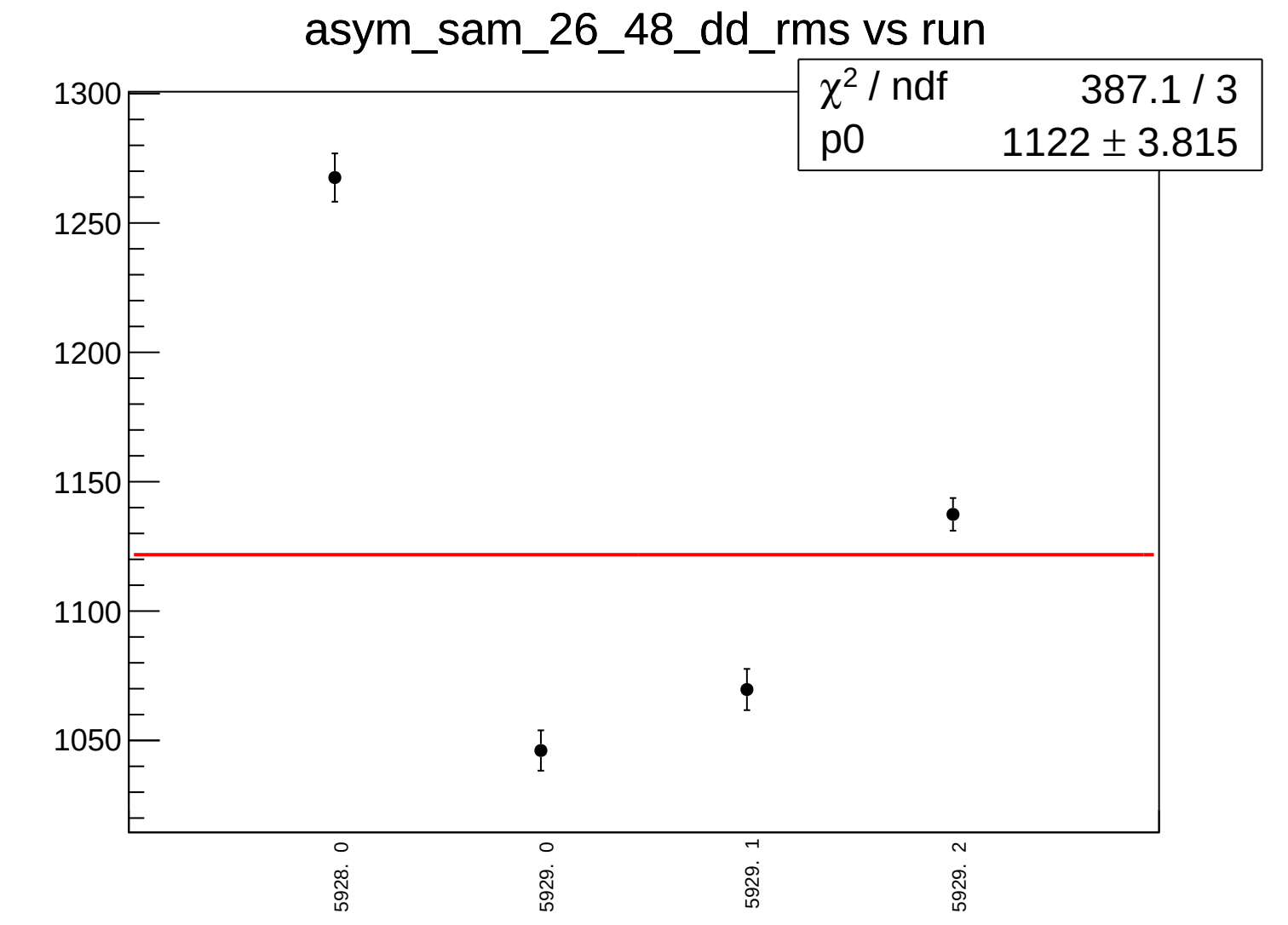

pull1D
Entries 4
Mean −0.02225
Std Dev 0.3107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

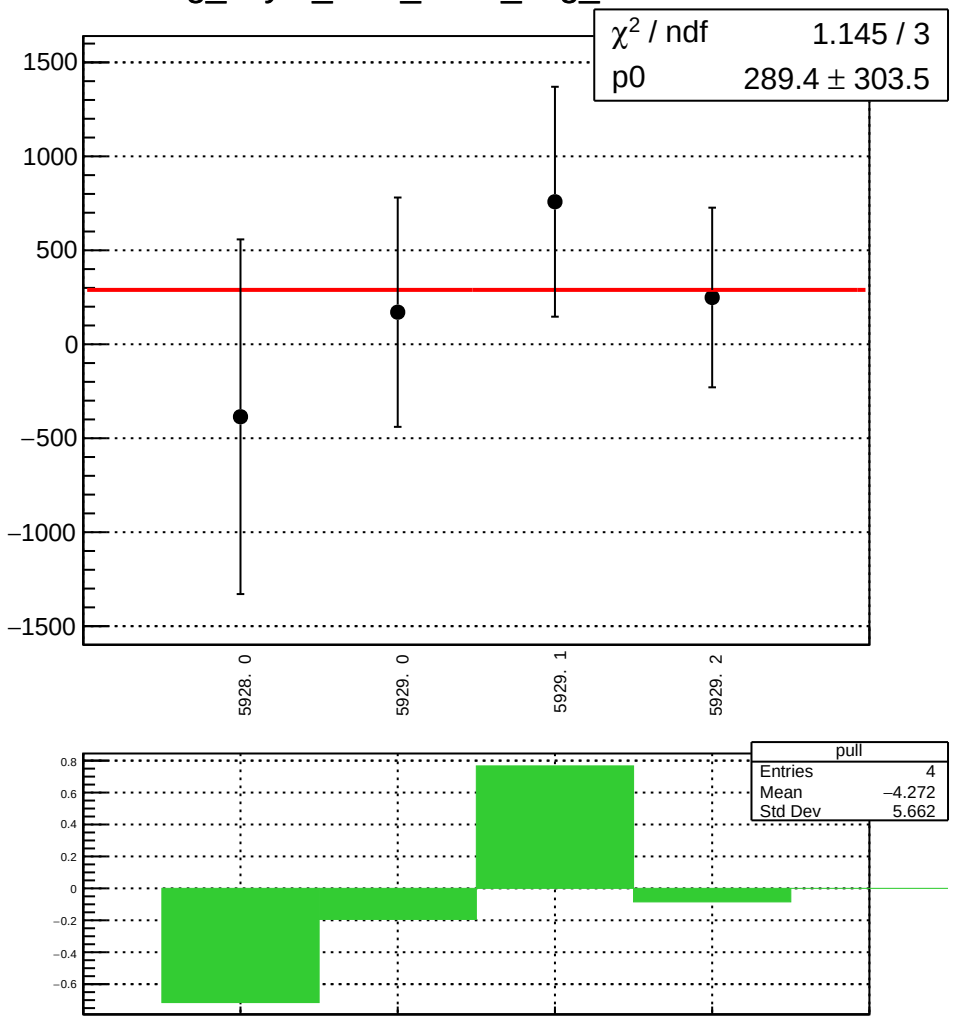

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 384.6 / 3
p0 1116 ± 3.795
1250
1200
1150
1100
1050
5928. 0
5929. 0
5929. 1
5929. 2

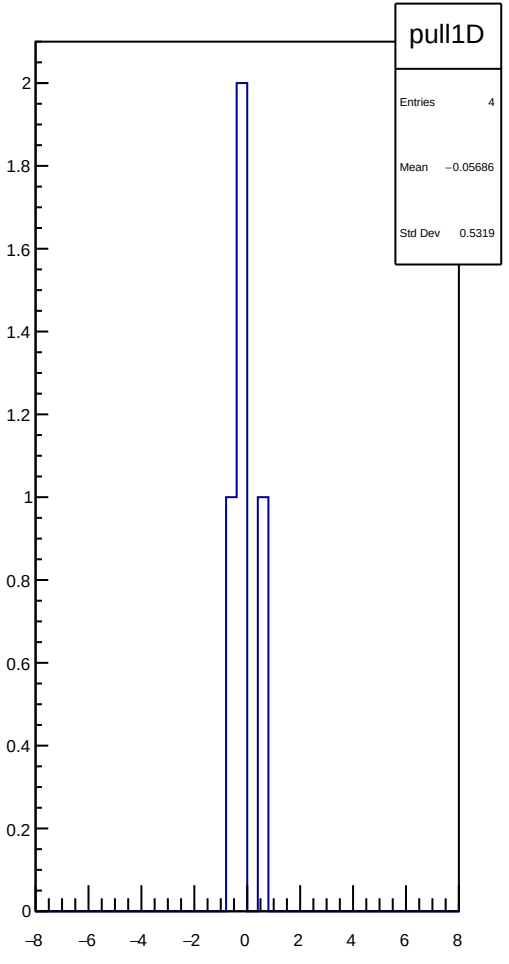

asym_sam_26_48_dd_mean vs run
χ² / ndf 0.2726 / 3
p0 −6293 ± 5395
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2

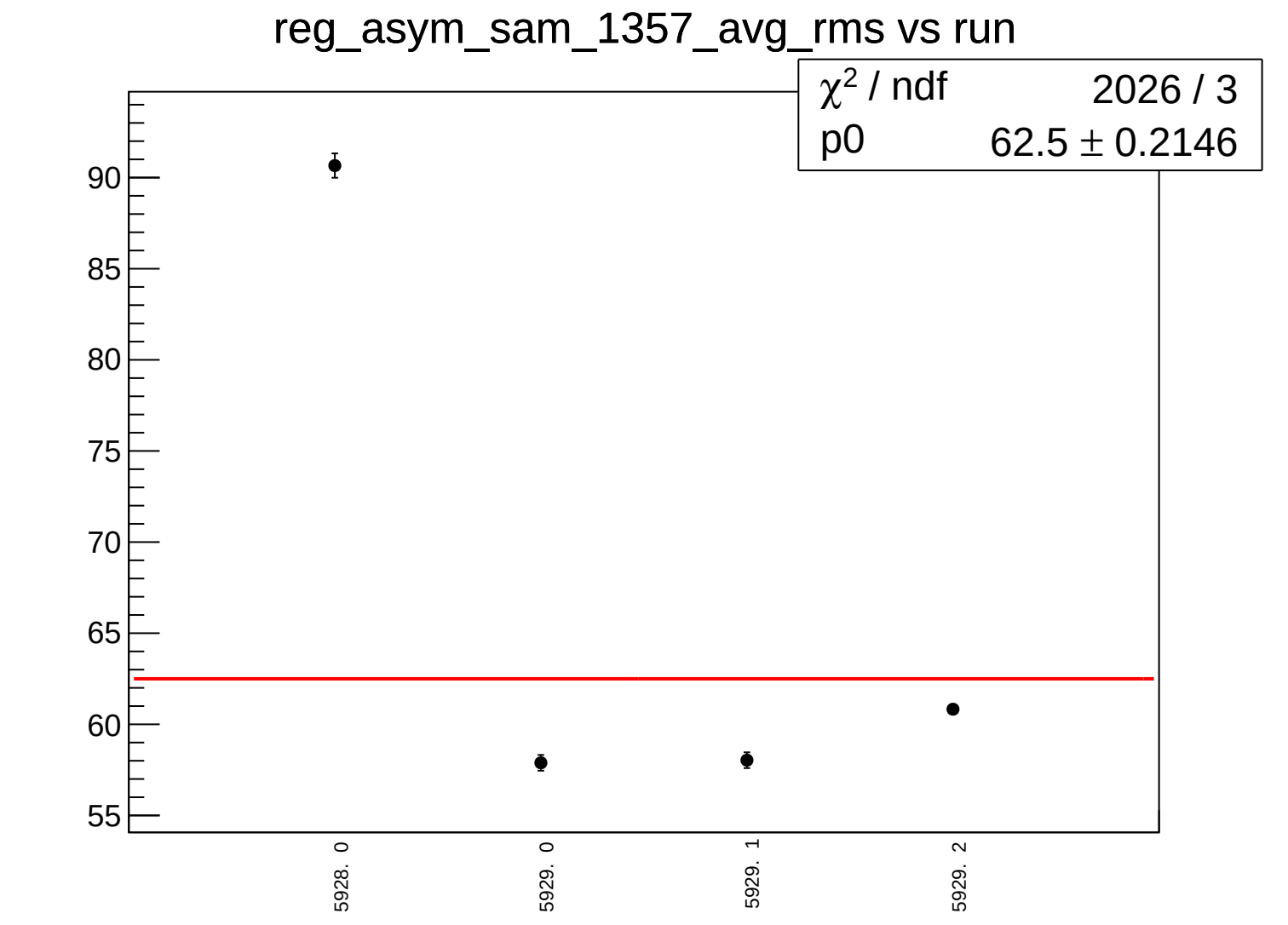

pull
Entries 4
Mean −8.218
Std Dev 10.51
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

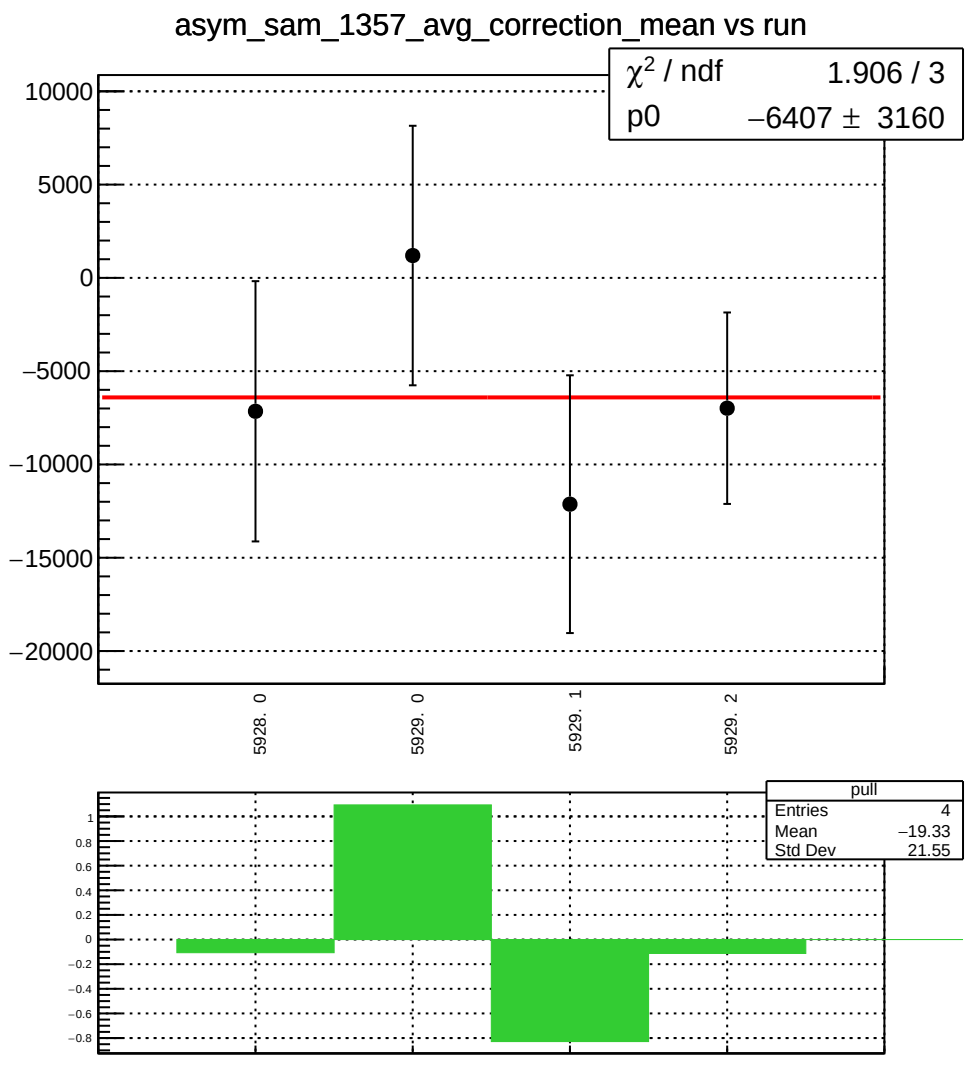

pull1D
Entries 4
Mean 0.01923
Std Dev 0.2603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

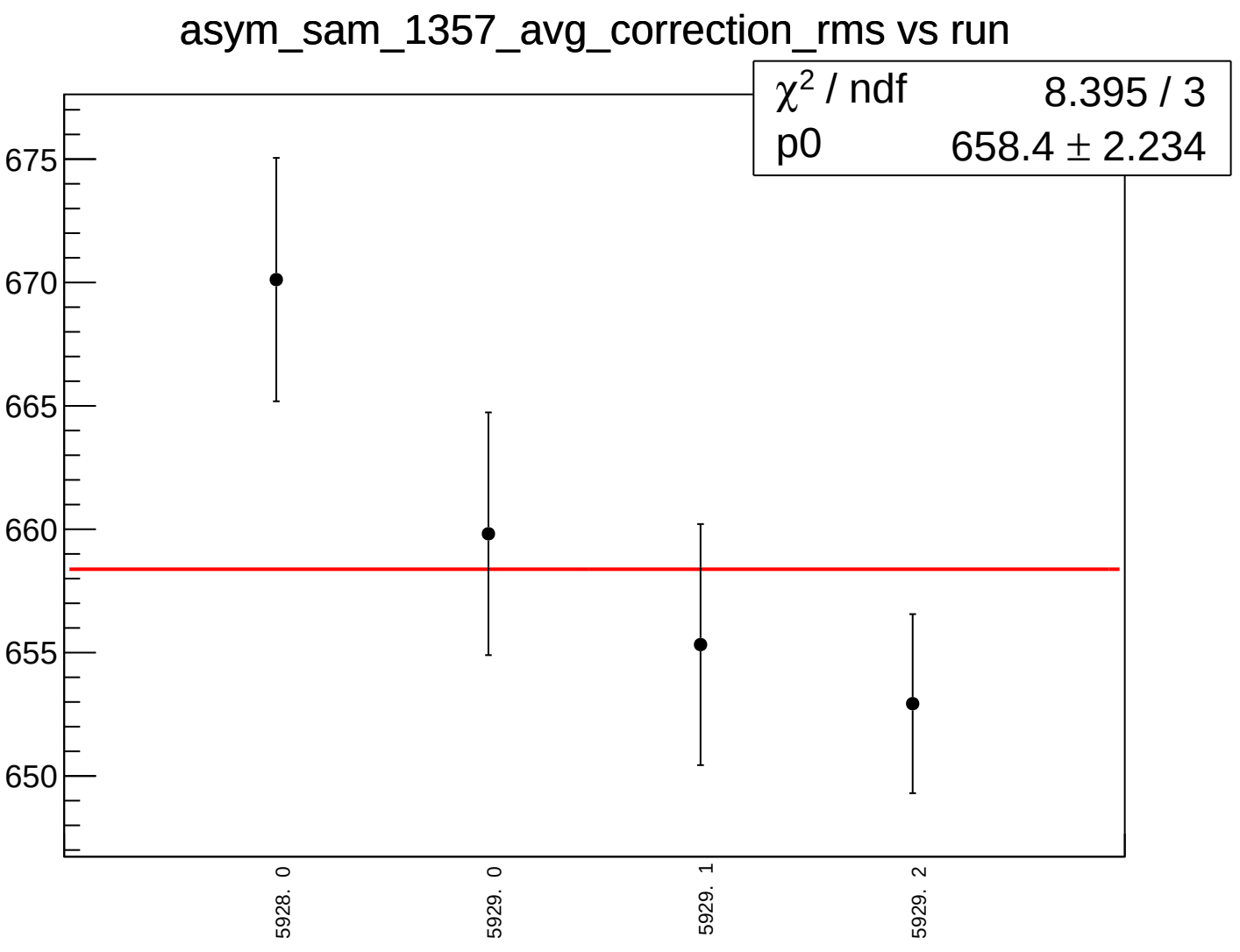

asym_sam_26_48_dd_rms vs run
χ² / ndf 387.1 / 3
p0 1122 ± 3.815
1300
1250
1200
1150
1100
1050
5928. 0
5929. 0
5929. 1
5929. 2

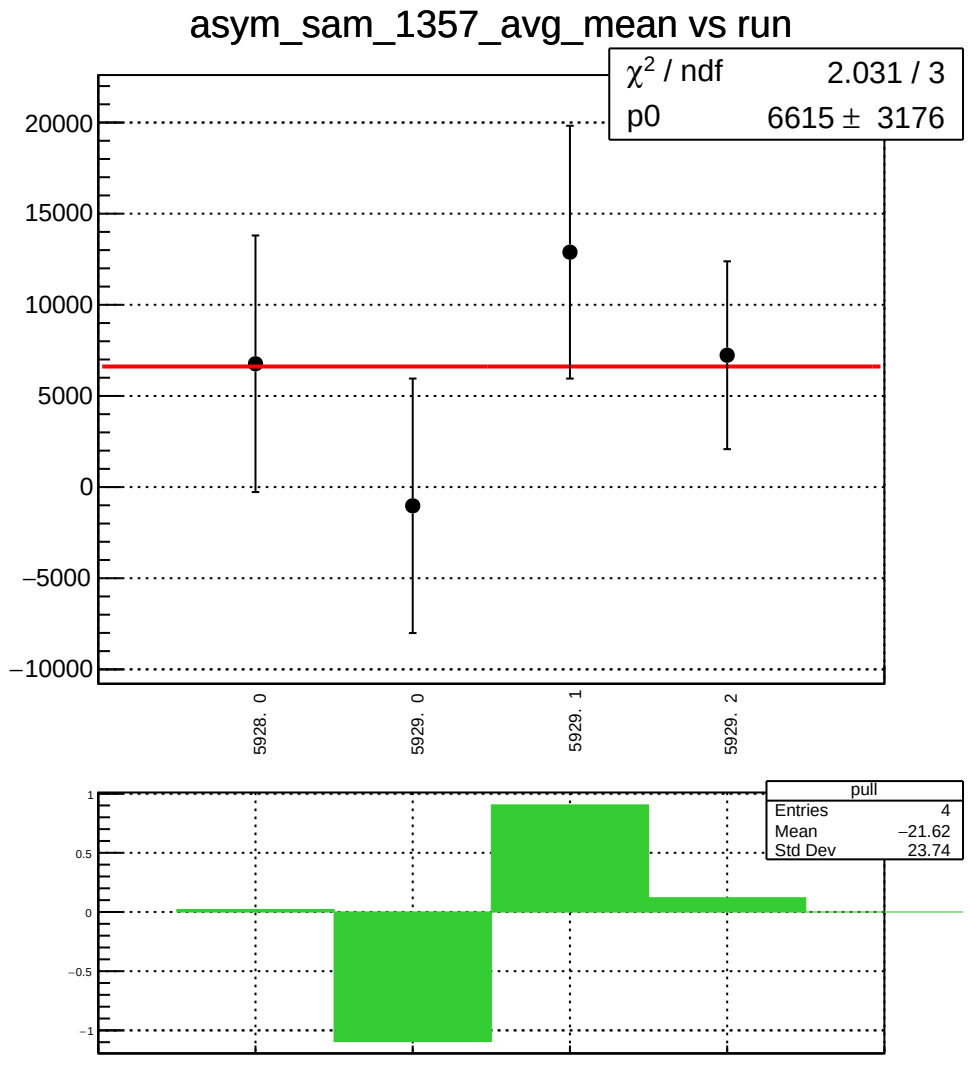

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 1.145 / 3
p0 289.4 ± 303.5
1500
1000
500
0
−500
−1000
−1500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.272
Std Dev 5.662
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

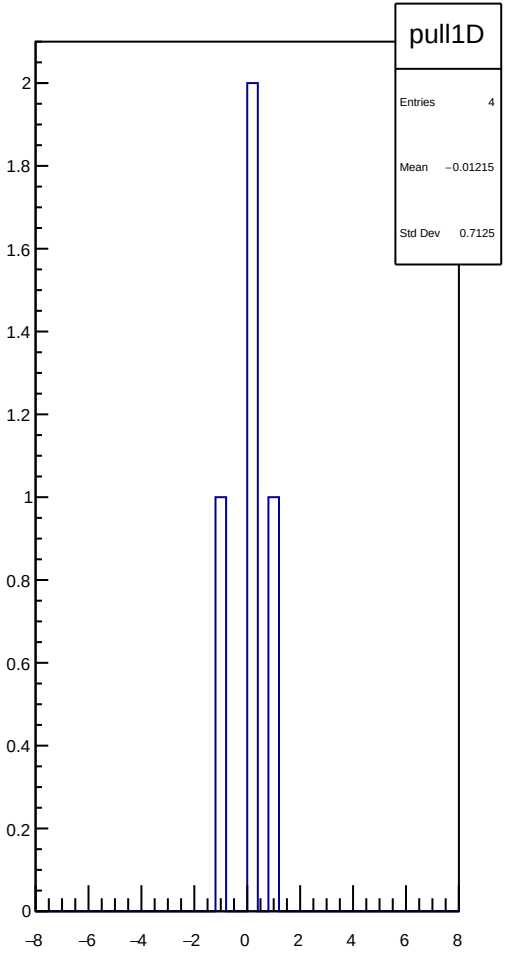

pull1D
Entries 4
Mean −0.05686
Std Dev 0.5319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

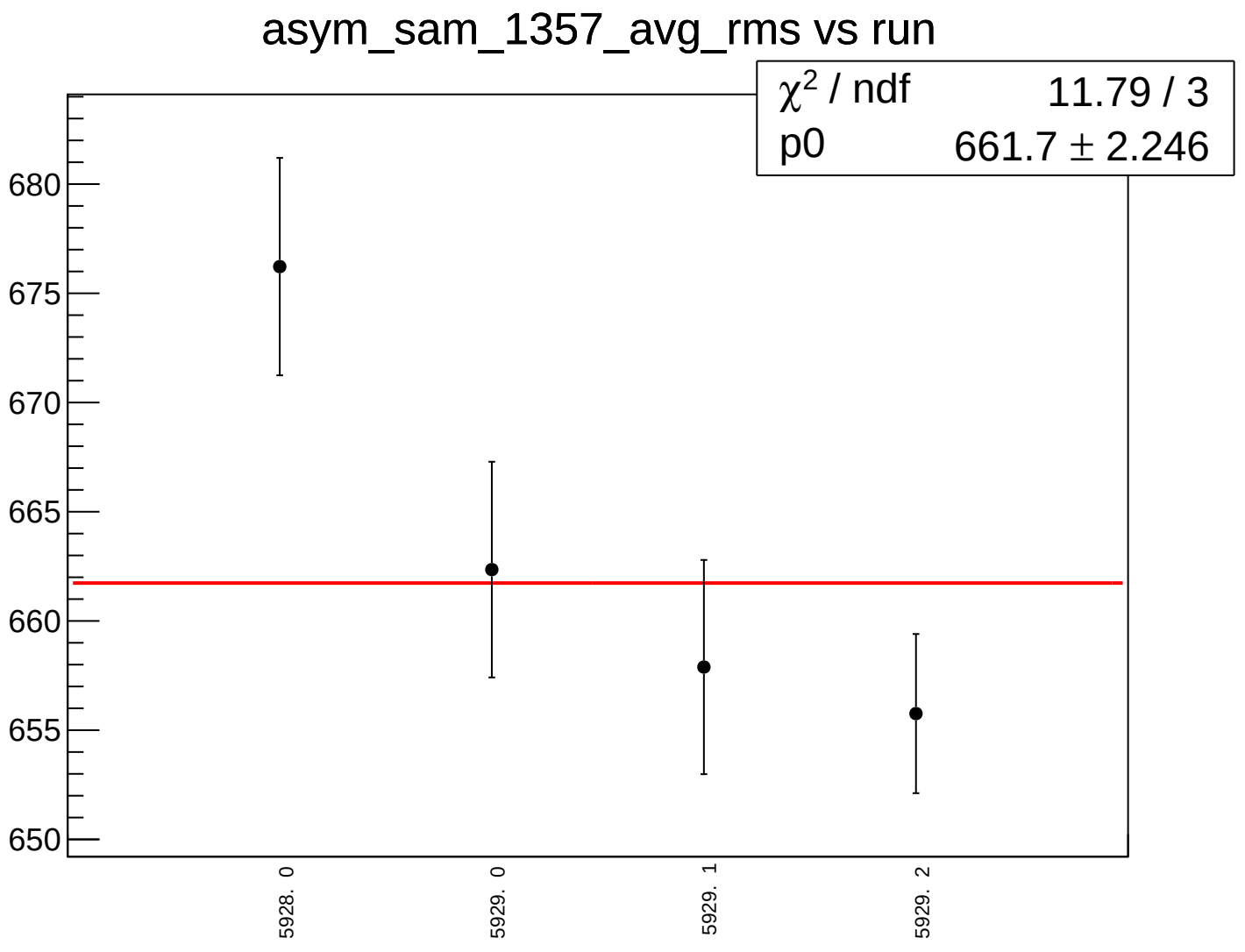

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2026 / 3
p0 62.5 ± 0.2146
90
85
80
75
70
65
60
55
5928. 0
5929. 0
5929. 1
5929. 2

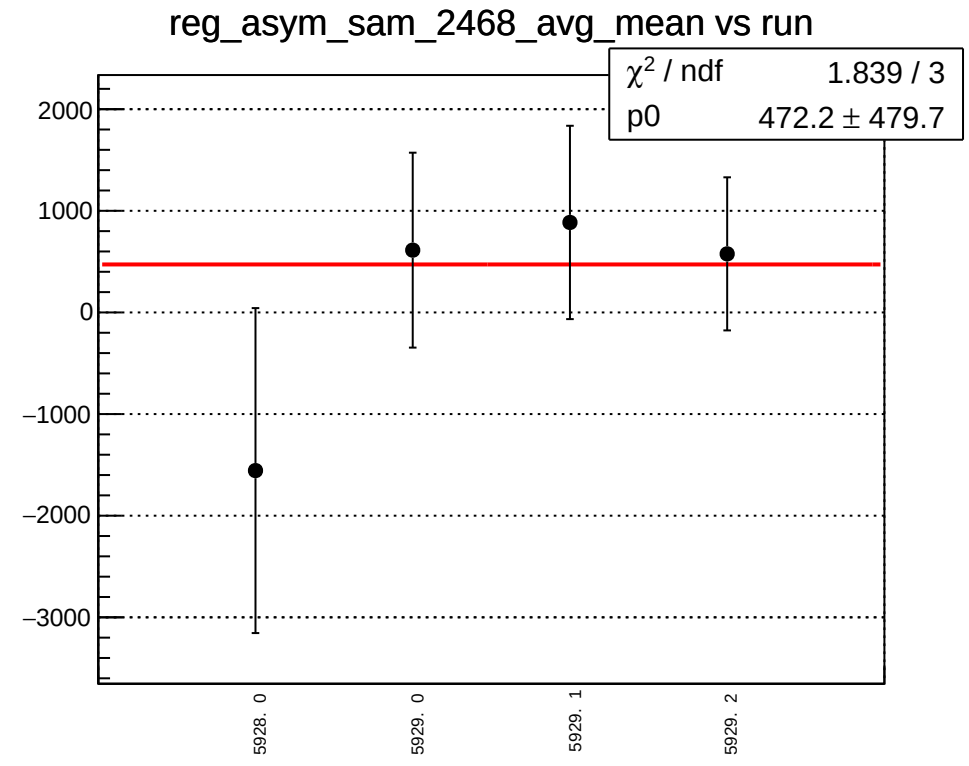

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 1.906 / 3
p0 −6407 ± 3160
10000
5000
0
−5000
−10000
−15000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −19.33
Std Dev 21.55
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.01137
Std Dev 0.6901
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

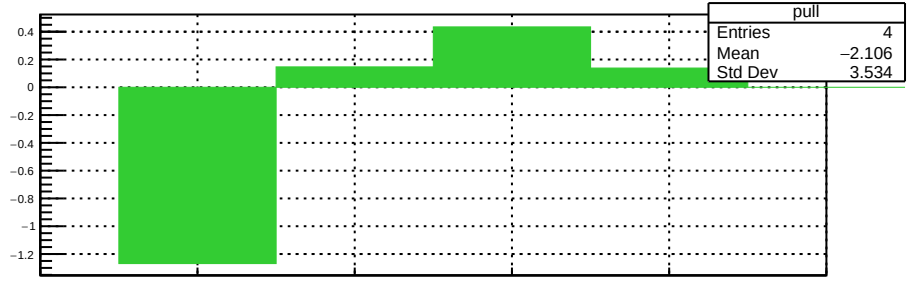

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 8.395 / 3
p0 658.4 ± 2.234
675
670
665
660
655
650
5928. 0
5929. 0
5929. 1
5929. 2

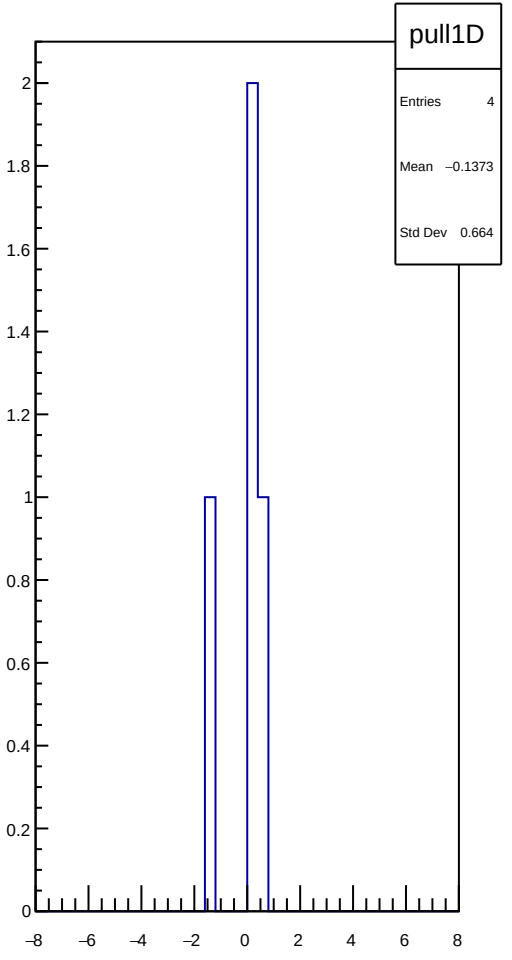

asym_sam_1357_avg_mean vs run
χ² / ndf 2.031 / 3
p0 6615 ± 3176
20000
15000
10000
5000
0
−5000
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −21.62
Std Dev 23.74
1
0.5
0
−0.5
−1

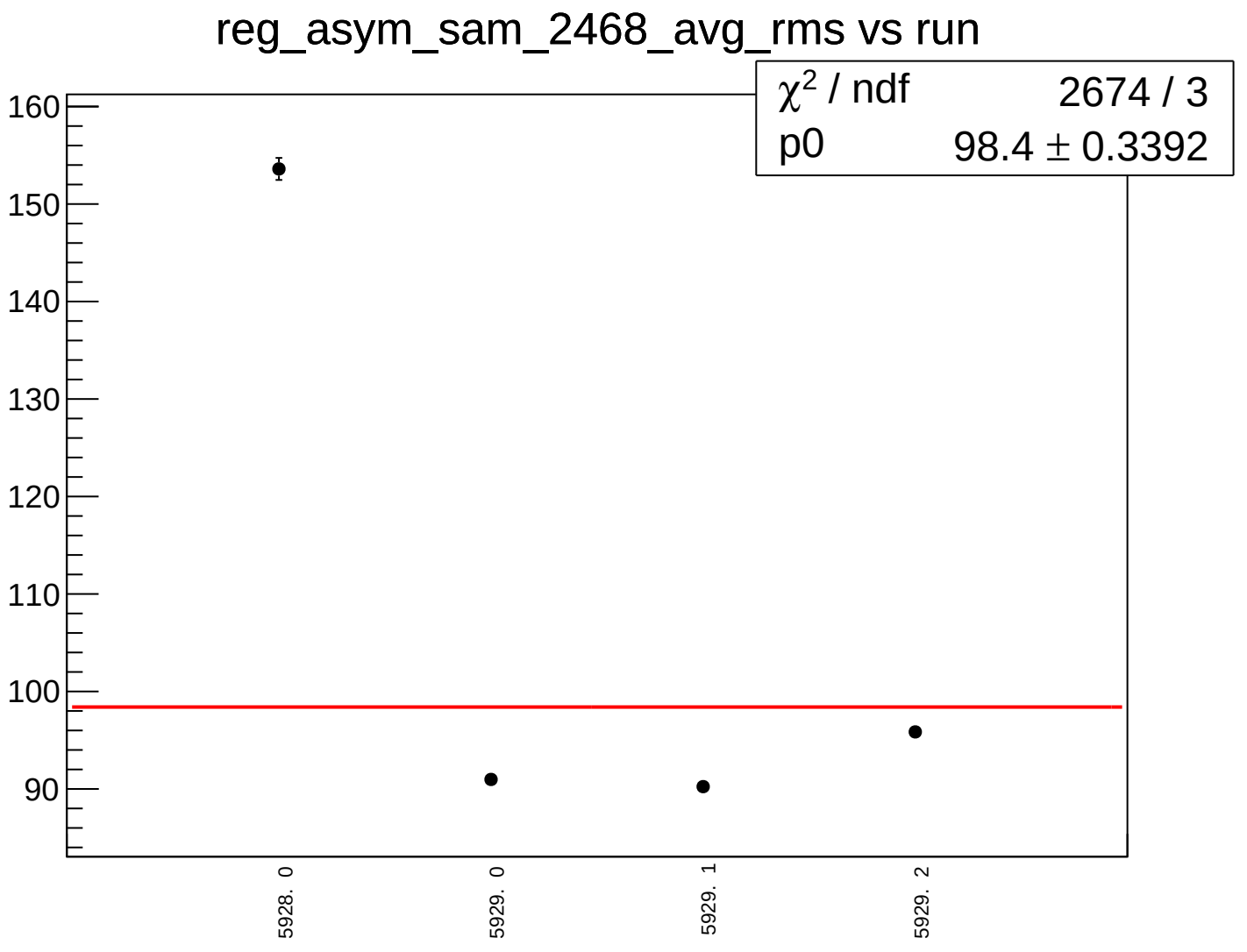

pull1D
Entries 4
Mean −0.01215
Std Dev 0.7125
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

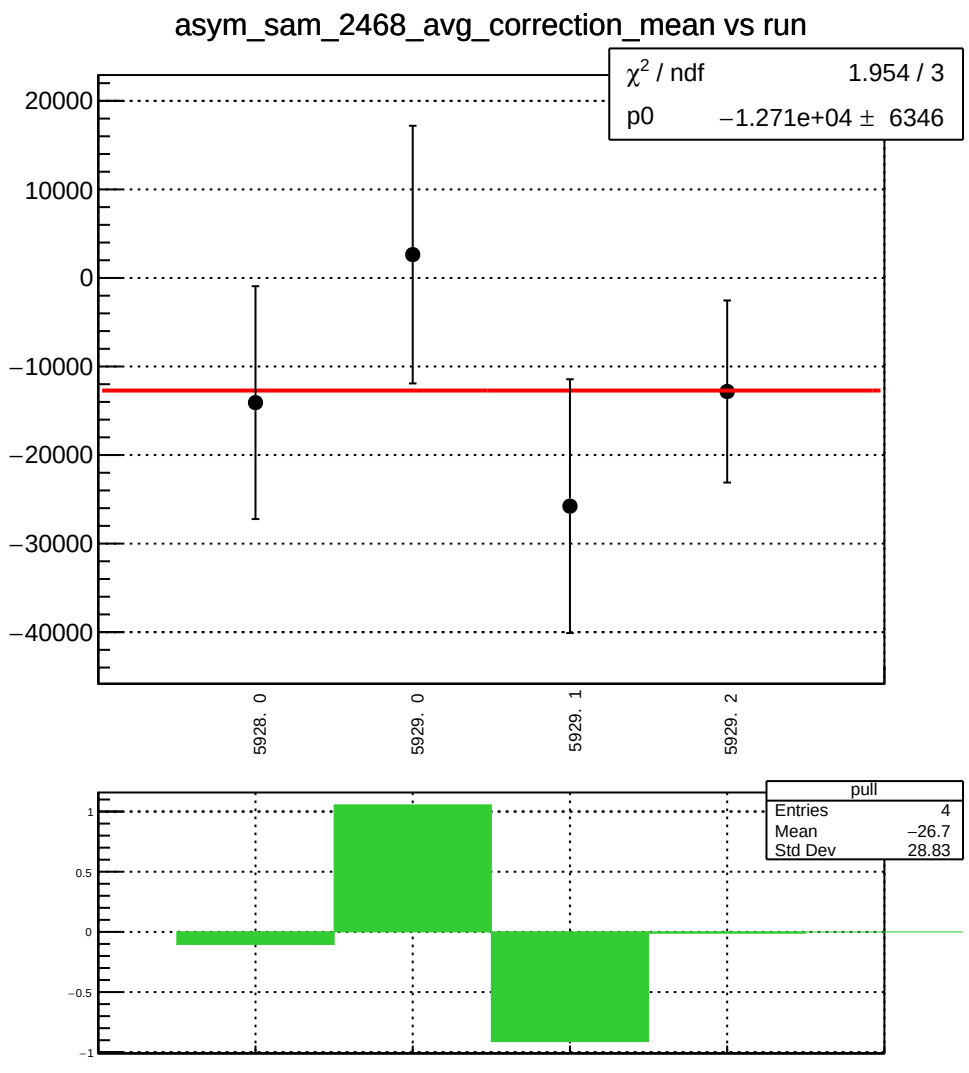

asym_sam_1357_avg_rms vs run
χ² / ndf 11.79 / 3
p0 661.7 ± 2.246
680
675
670
665
660
655
650
5928. 0
5929. 0
5929. 1
5929. 2

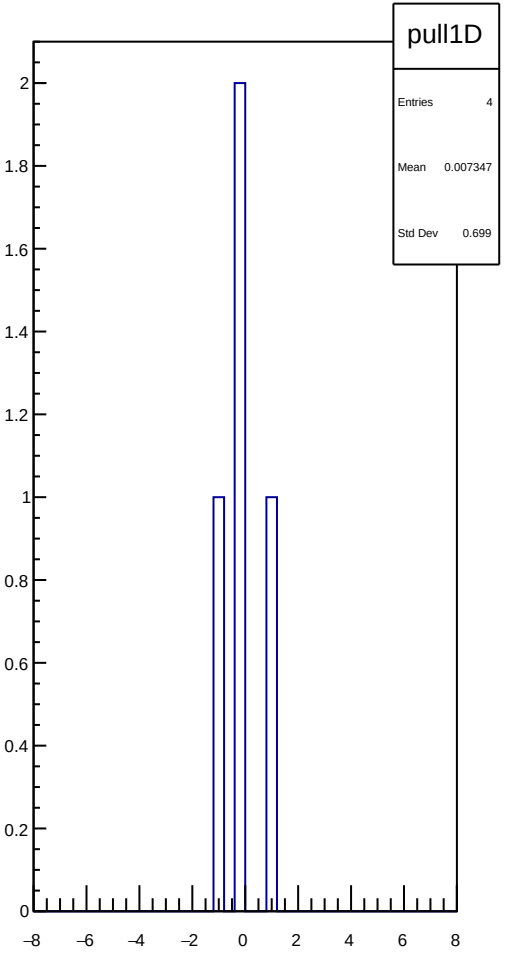

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 1.839 / 3
p0 472.2 ± 479.7
2000
1000
0
−1000
−2000
−3000
5928. 0
5929. 0
5929. 1
5929. 2

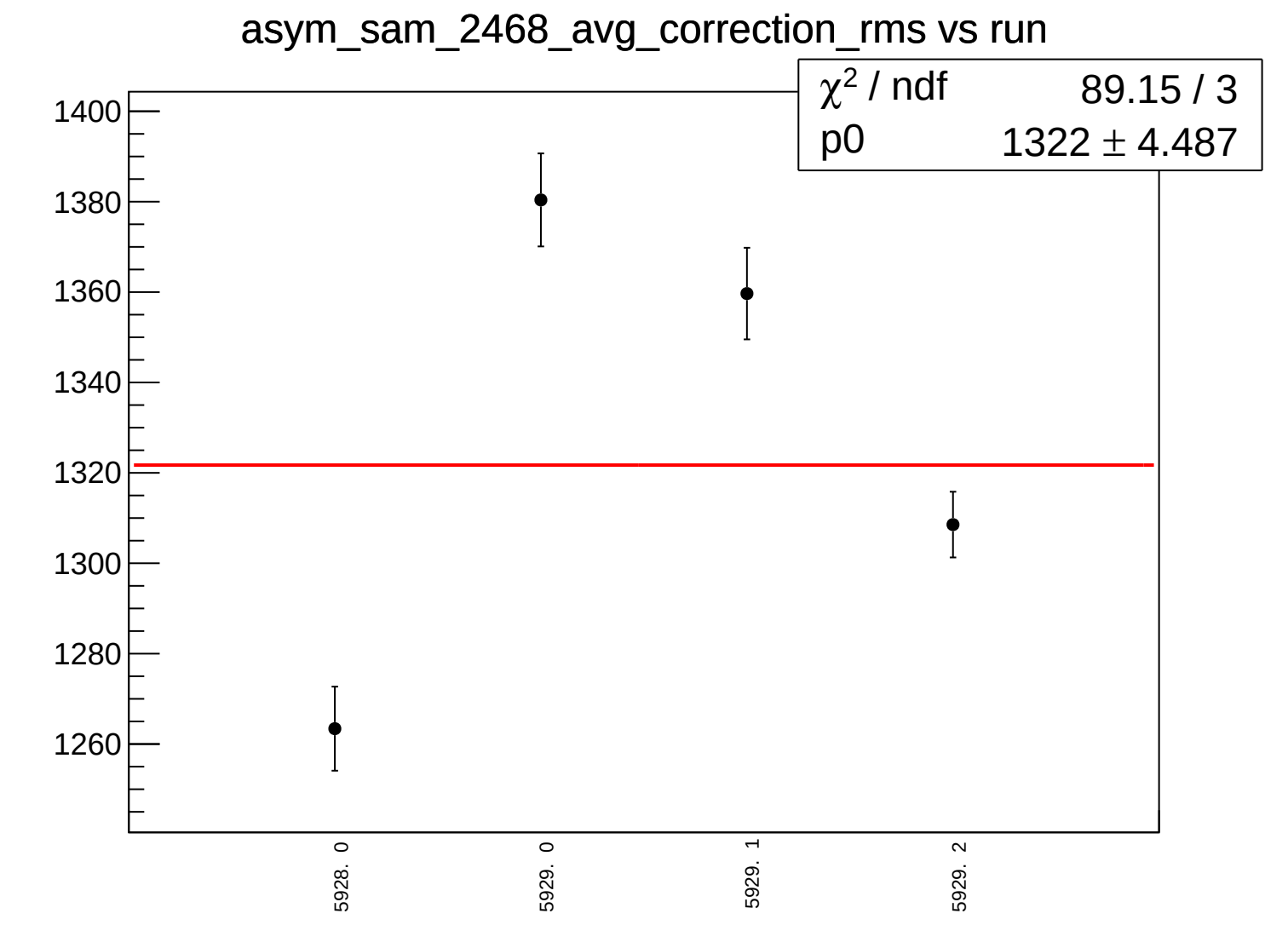

pull
Entries 4
Mean −2.106
Std Dev 3.534
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

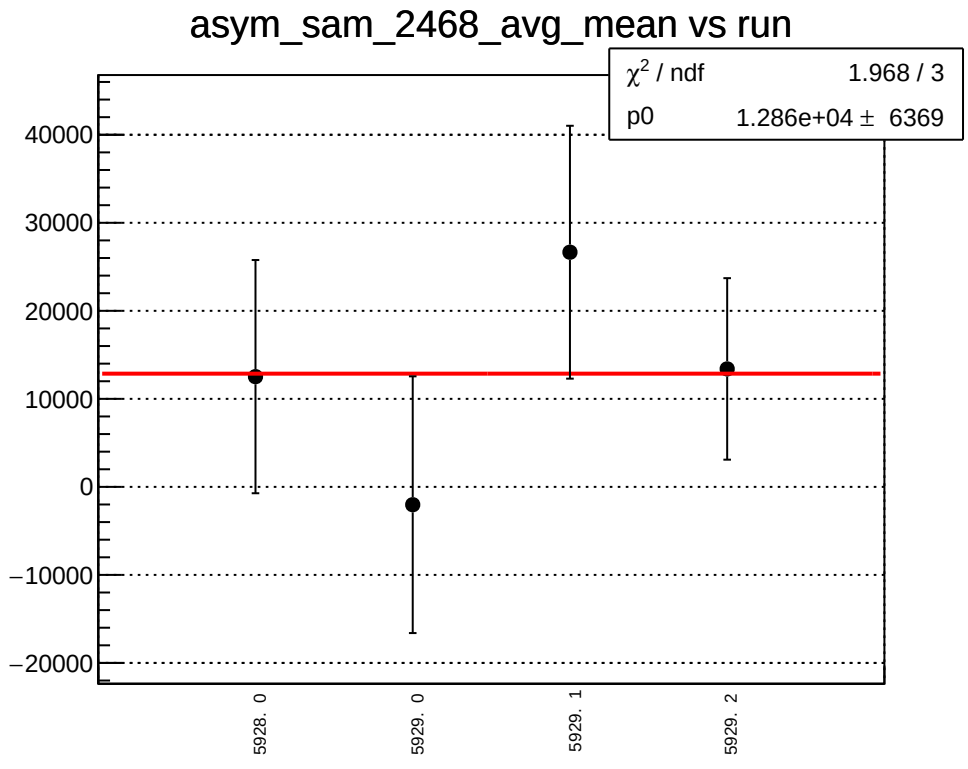

pull1D
Entries 4
Mean −0.1373
Std Dev 0.664
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

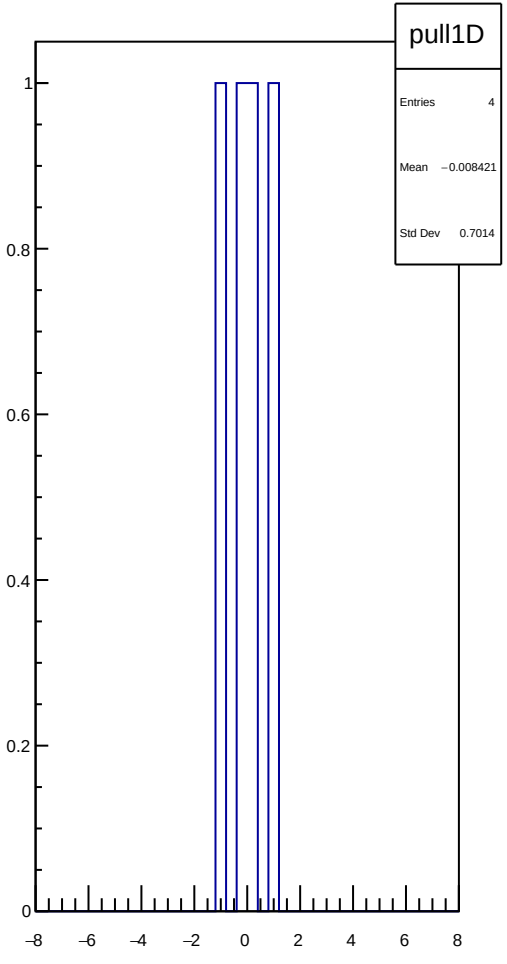

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2674 / 3
p0 98.4 ± 0.3392
160
150
140
130
120
110
100
90
5928. 0
5929. 0
5929. 1
5929. 2

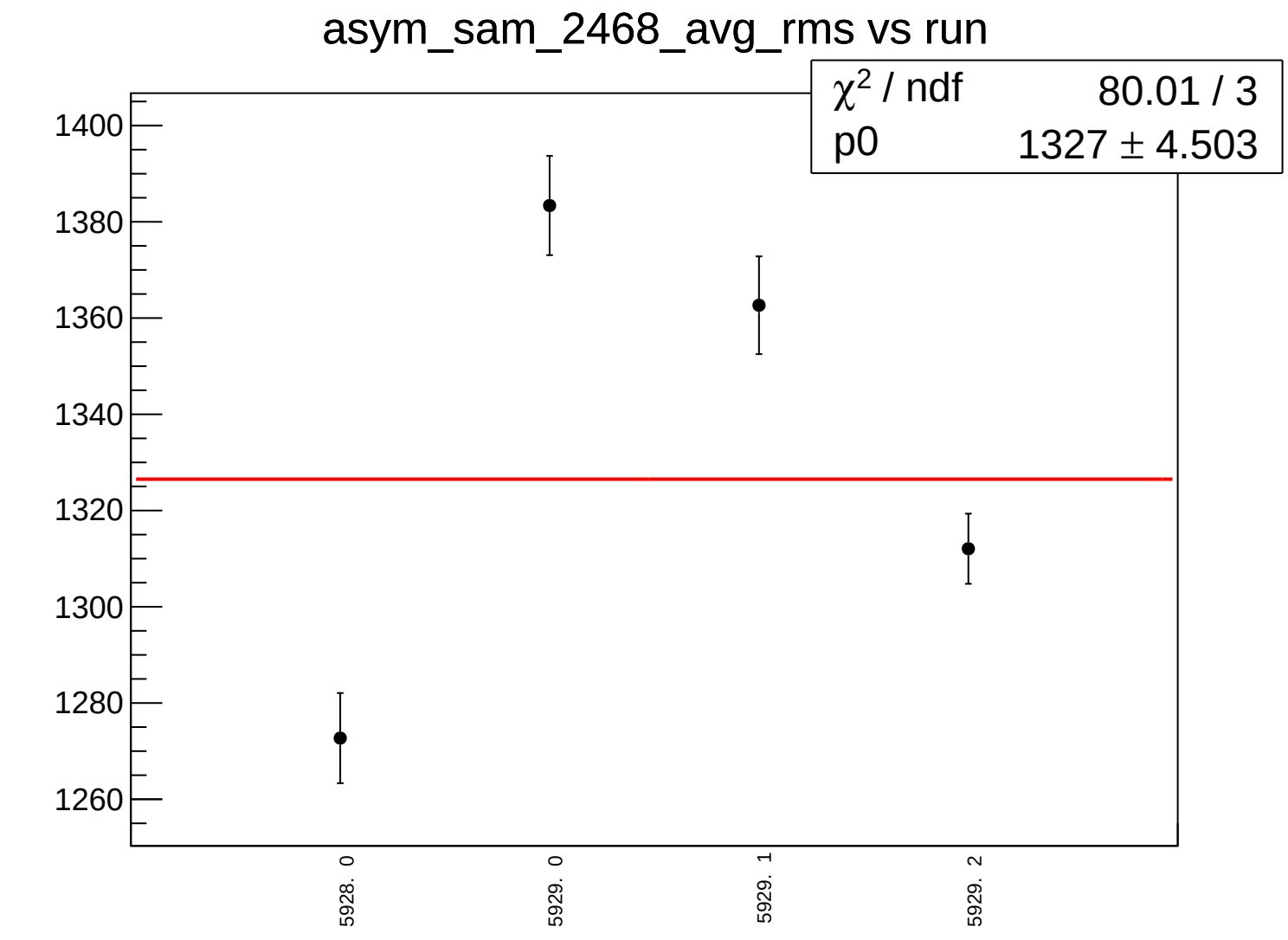

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 1.954 / 3
p0 −1.271e+04 ± 6346
20000
10000
0
−10000
−20000
−30000
−40000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −26.7
Std Dev 28.83
1
0.5
0
−0.5
−1

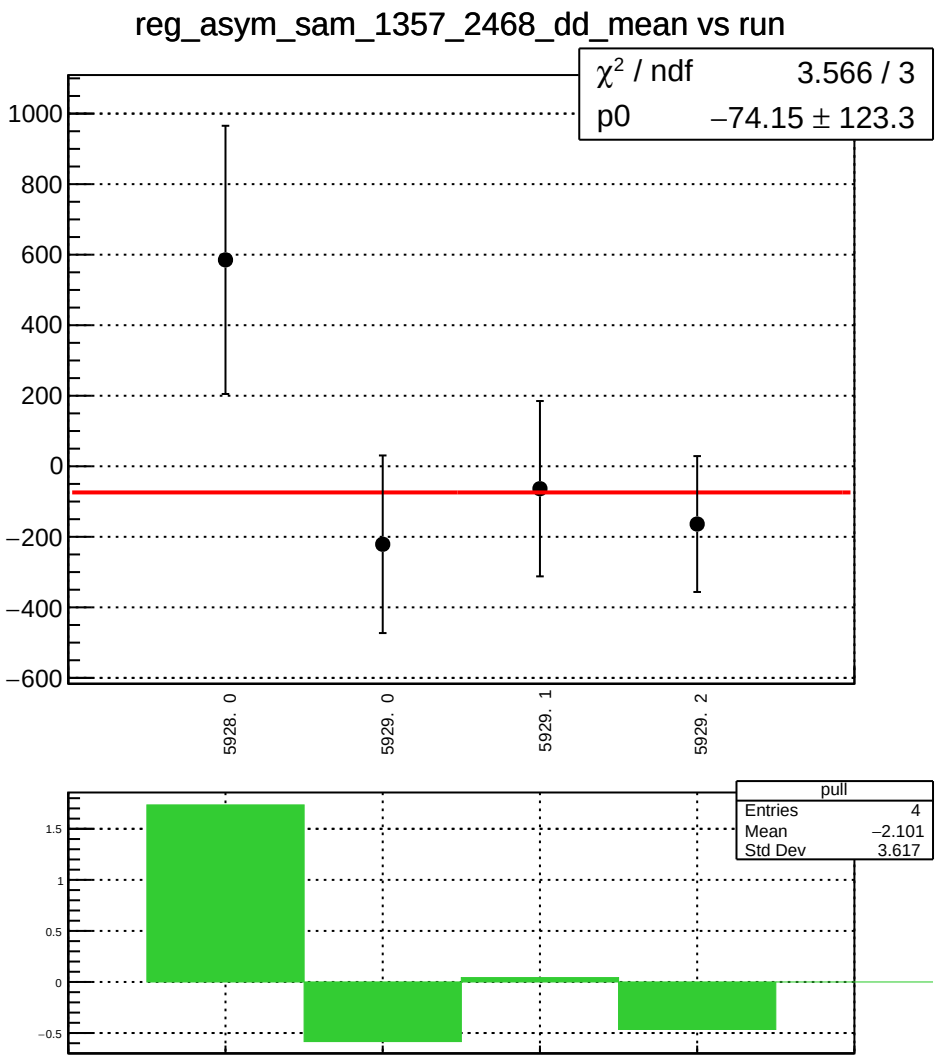

pull1D
Entries 4
Mean 0.007347
Std Dev 0.699
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

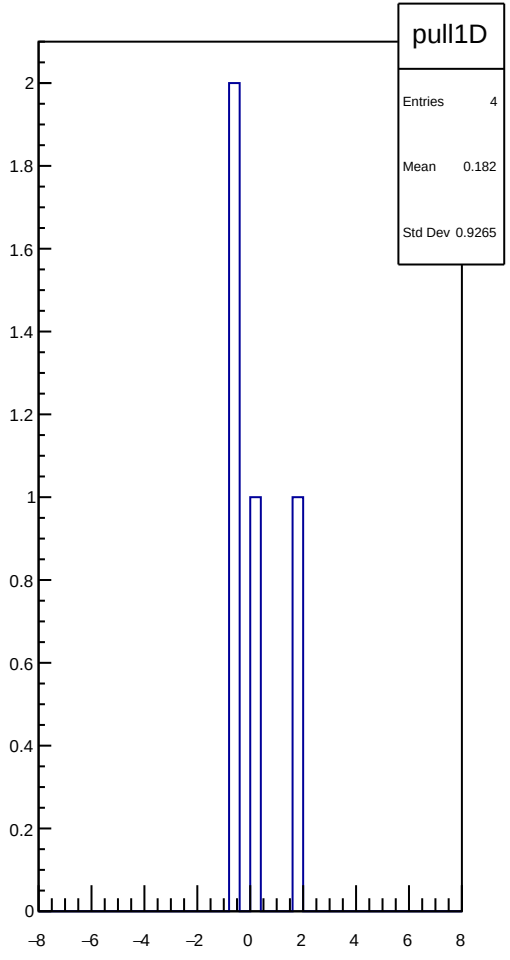

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 89.15 / 3
p0 1322 ± 4.487
1400
1380
1360
1340
1320
1300
1280
1260
5928. 0
5929. 0
5929. 1
5929. 2

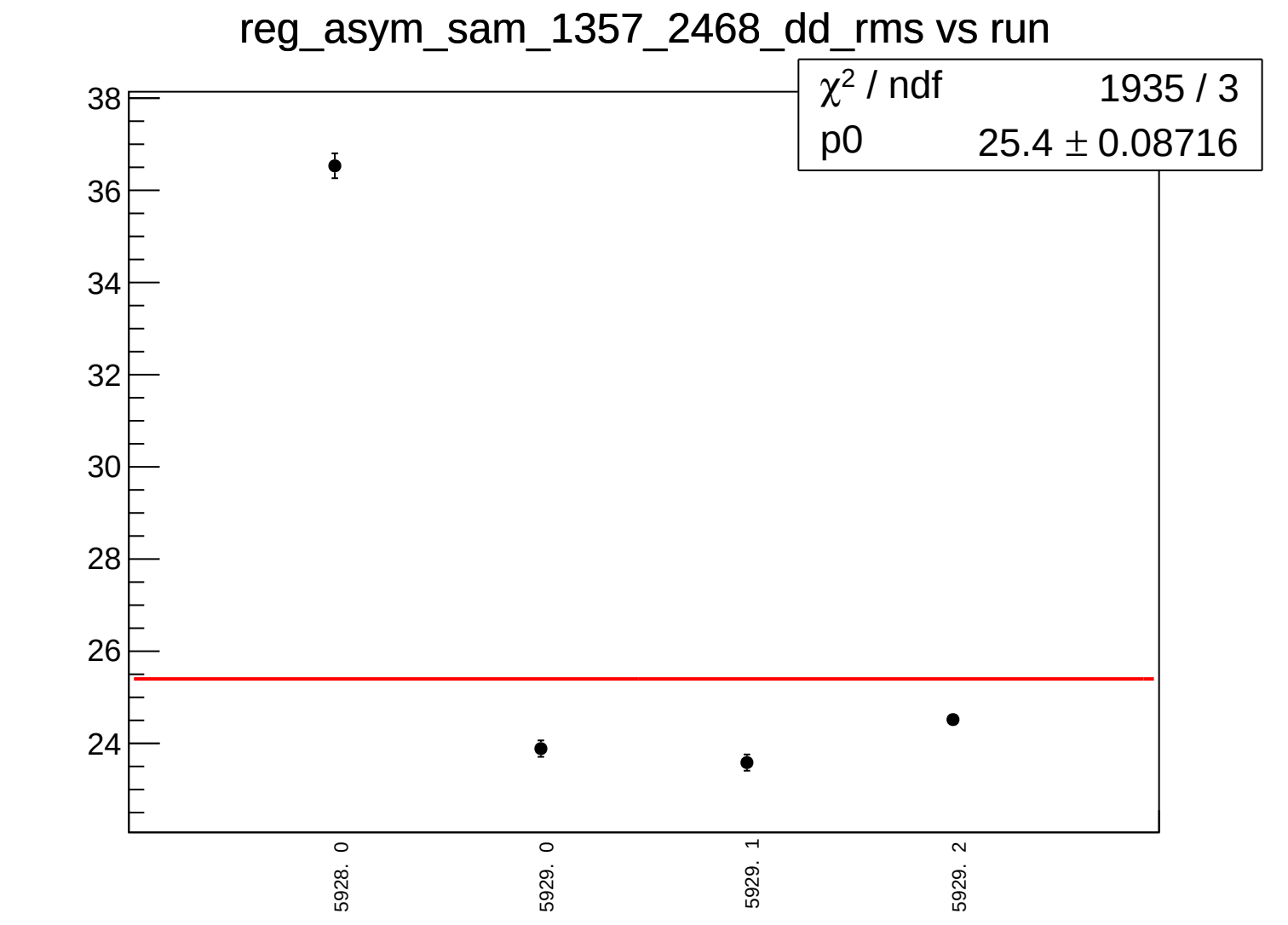

asym_sam_2468_avg_mean vs run
χ² / ndf 1.968 / 3
p0 1.286e+04 ± 6369
40000
30000
20000
10000
0
−10000
−20000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −30.88
Std Dev 32.9
1
0.5
0
−0.5
−1

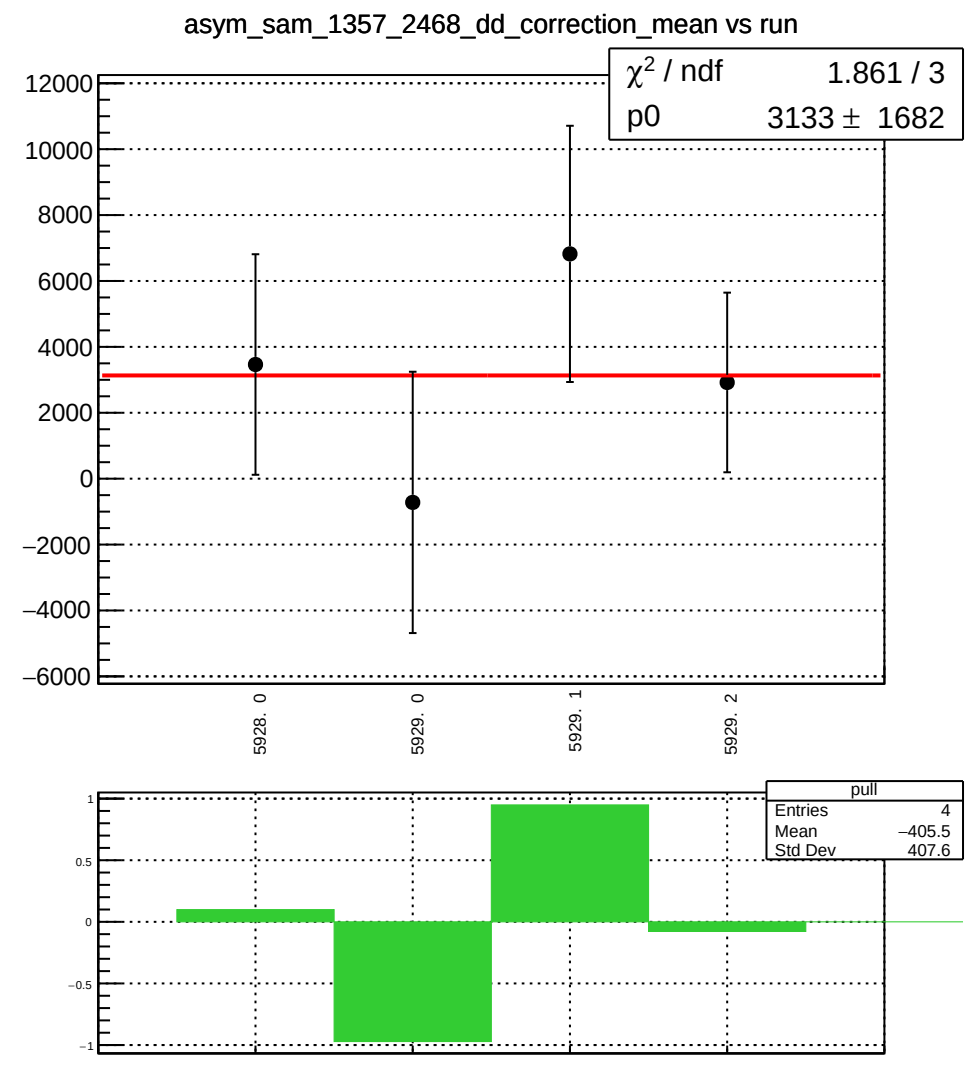

pull1D
Entries 4
Mean −0.008421
Std Dev 0.7014
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

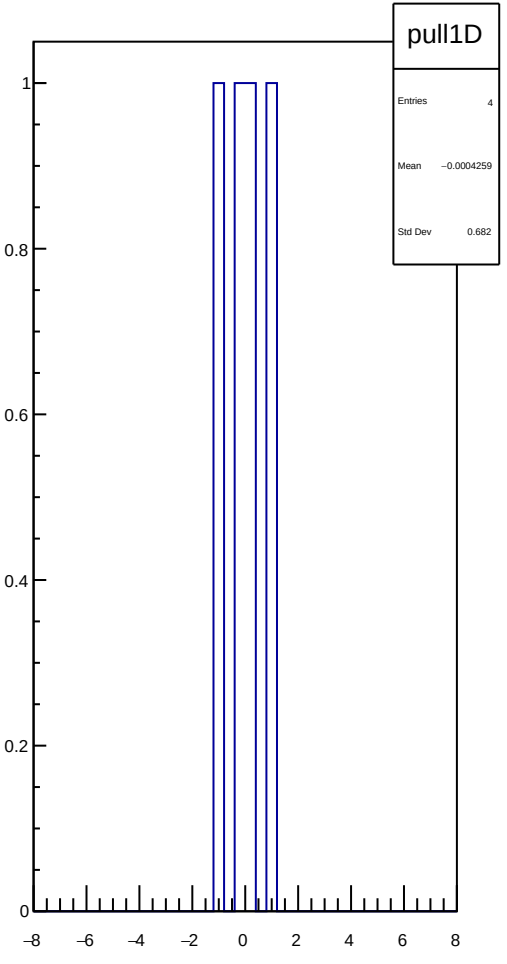

asym_sam_2468_avg_rms vs run
χ² / ndf 80.01 / 3
p0 1327 ± 4.503
1400
1380
1360
1340
1320
1300
1280
1260
5928. 0
5929. 0
5929. 1
5929. 2

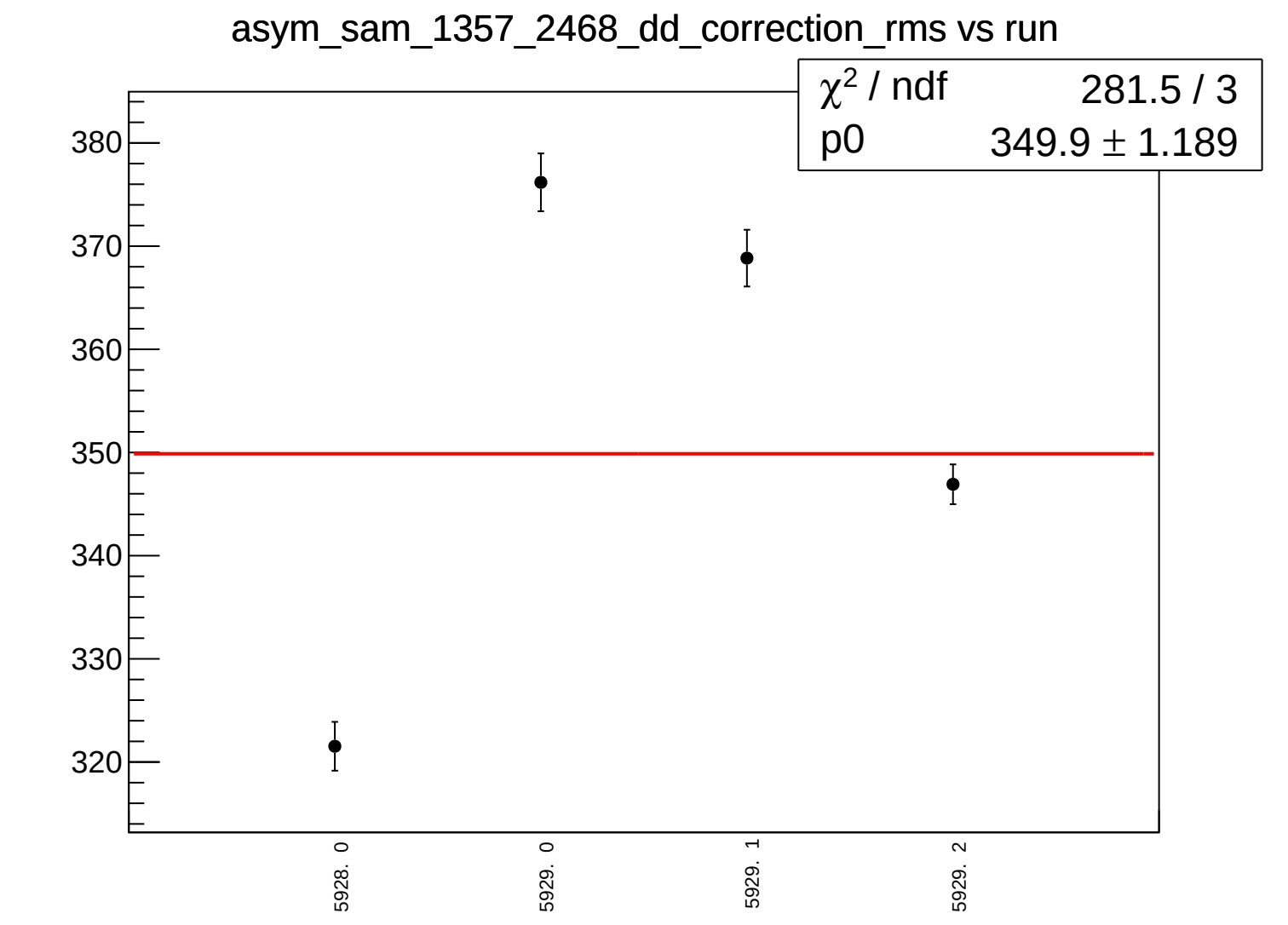

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 3.566 / 3
p0 −74.15 ± 123.3
1000
800
600
400
200
0
−200
−400
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.101
Std Dev 3.617
1.5
1
0.5
0
−0.5

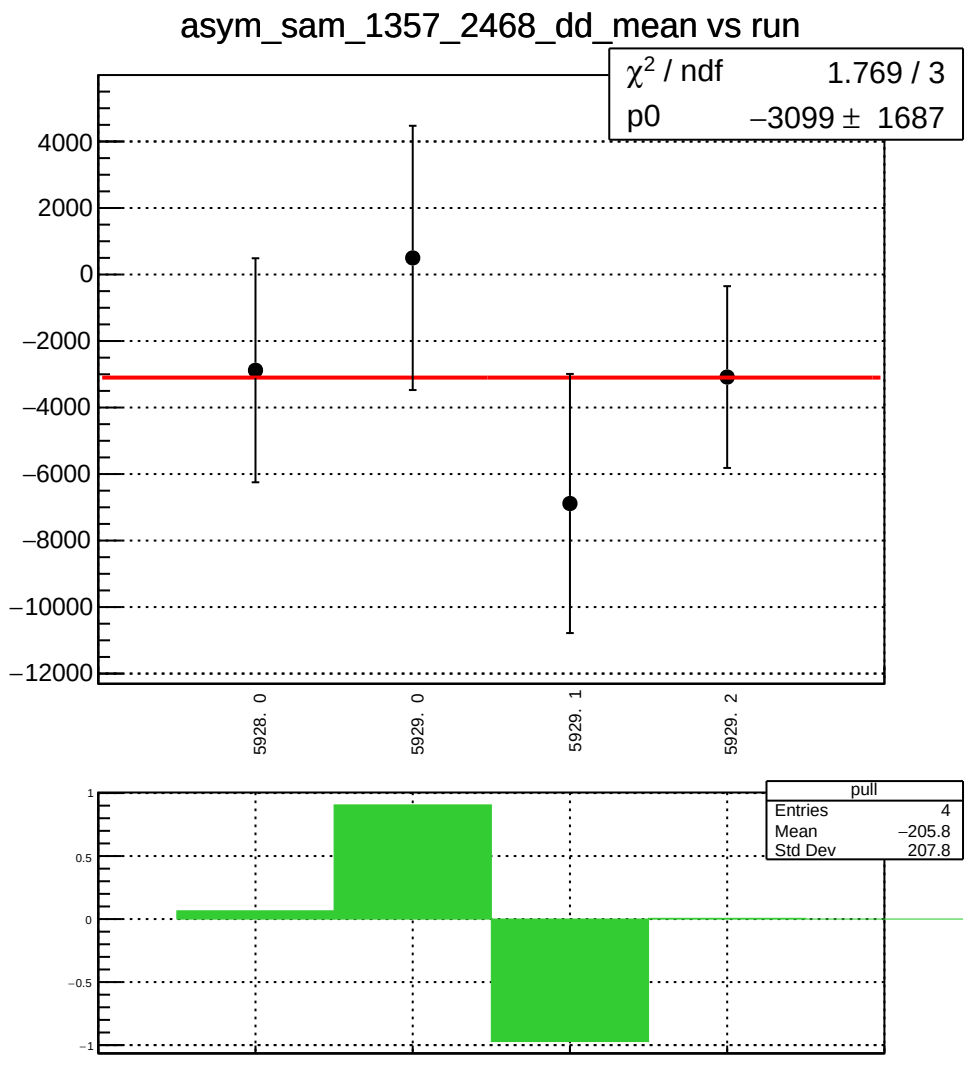

pull1D
Entries 4
Mean 0.182
Std Dev 0.9265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

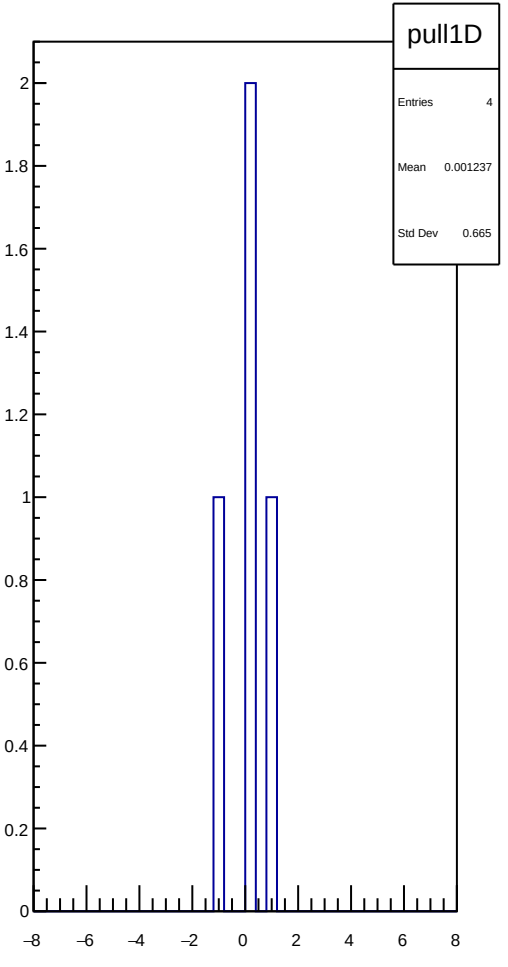

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1935 / 3
p0 25.4 ± 0.08716
38
36
34
32
30
28
26
24
5928. 0
5929. 0
5929. 1
5929. 2

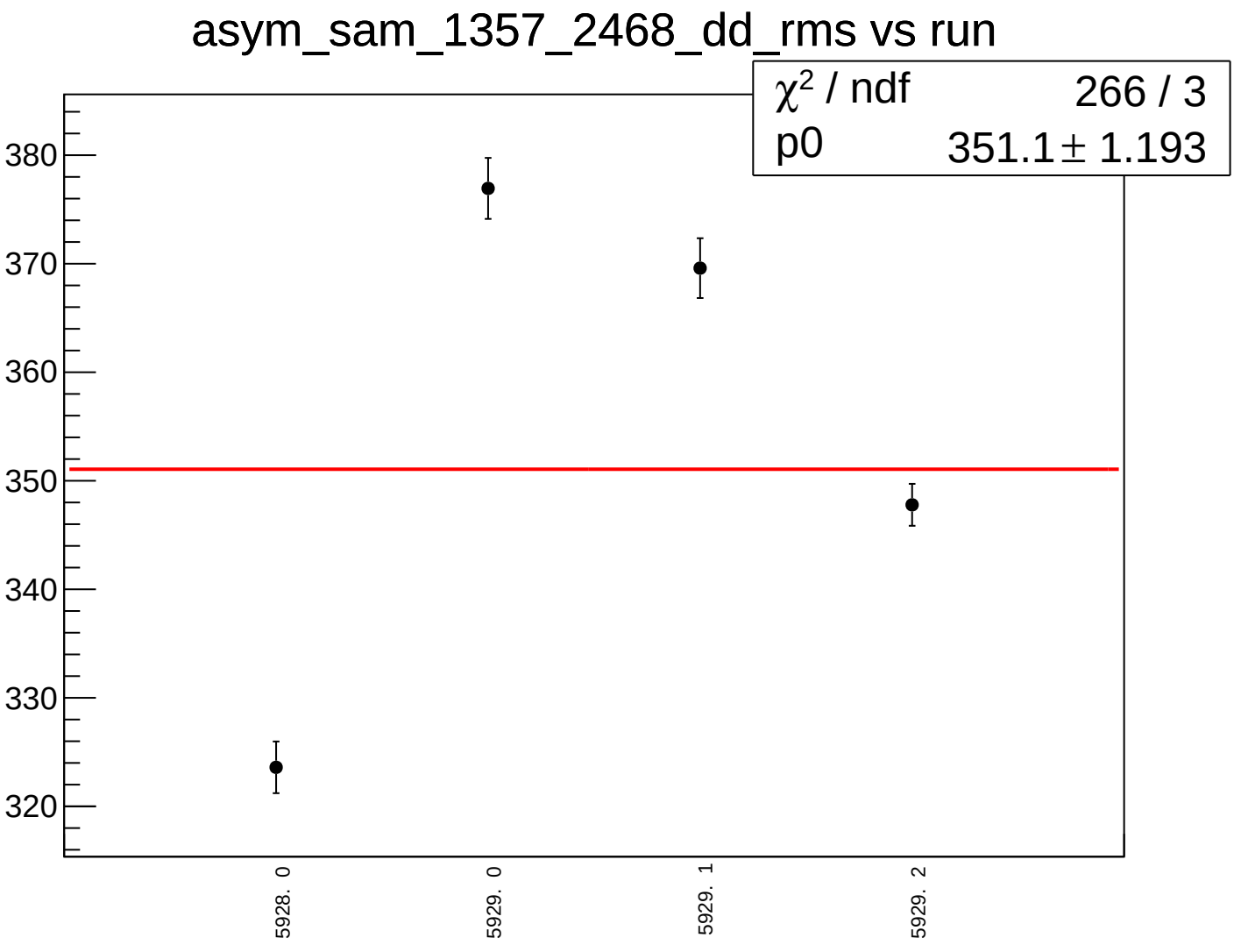

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 1.861 / 3
p0 3133 ± 1682
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −405.5
Std Dev 407.6
1
0.5
0
−0.5
−1

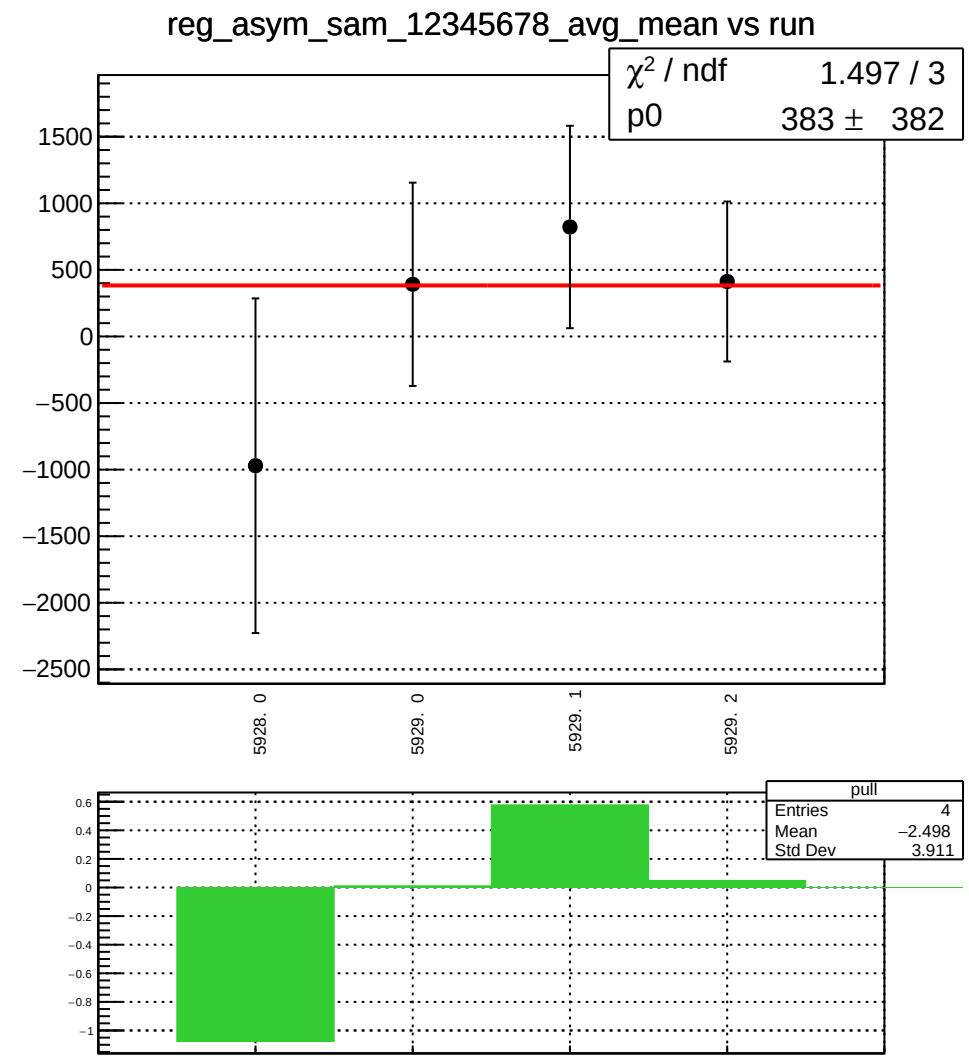

pull1D
Entries 4
Mean −0.0004259
Std Dev 0.682
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

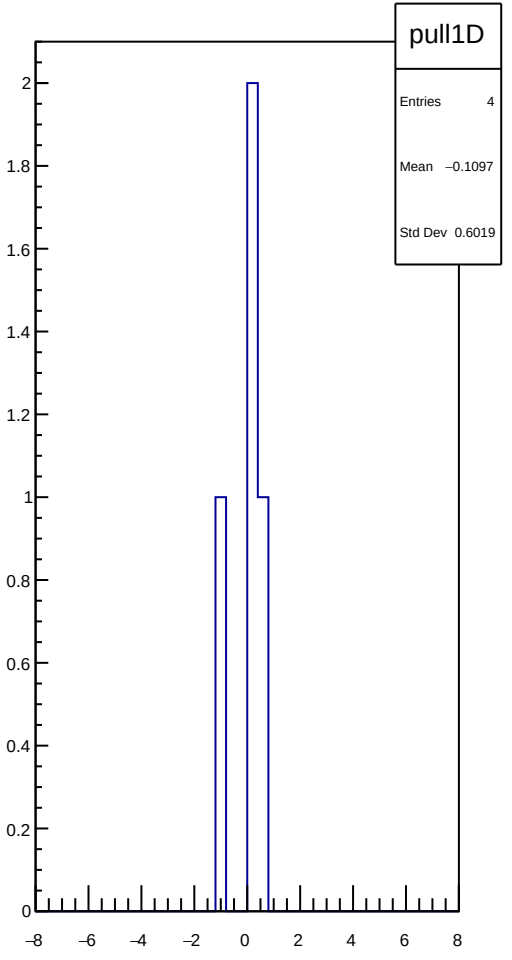

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 281.5 / 3
p0 349.9 ± 1.189
380
370
360
350
340
330
320
5928. 0
5929. 0
5929. 1
5929. 2

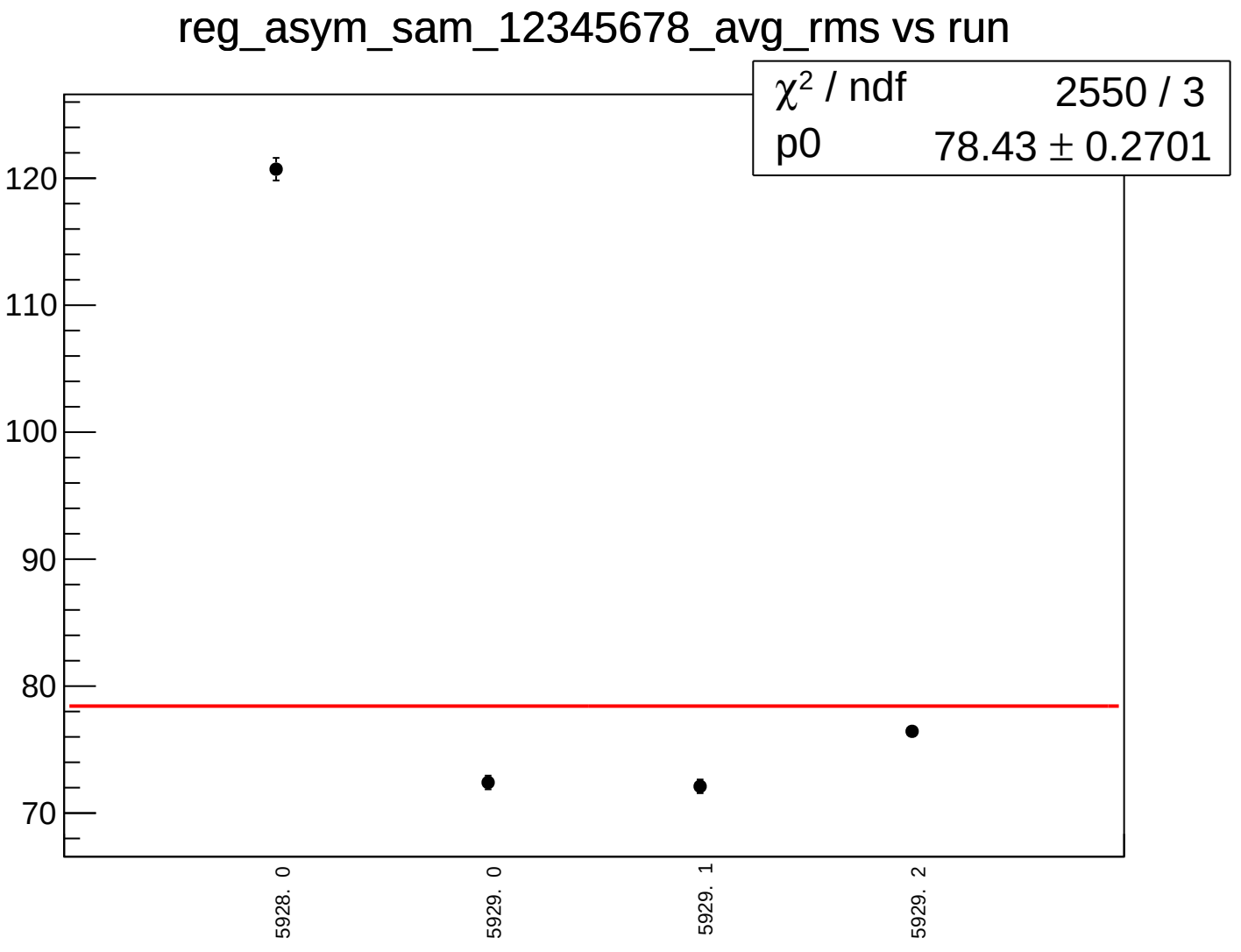

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 1.769 / 3
p0 −3099 ± 1687
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −205.8
Std Dev 207.8
1
0.5
0
−0.5
−1

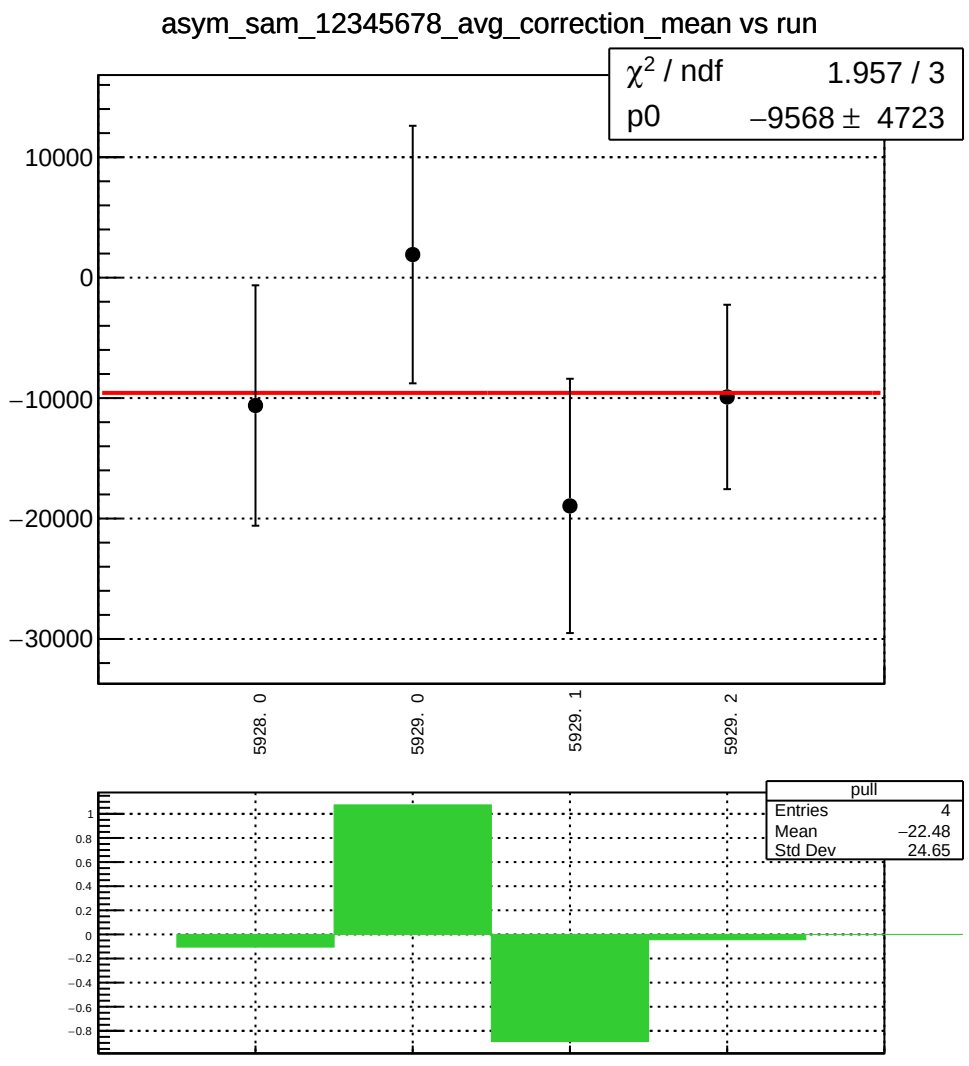

pull1D
Entries 4
Mean 0.001237
Std Dev 0.665
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

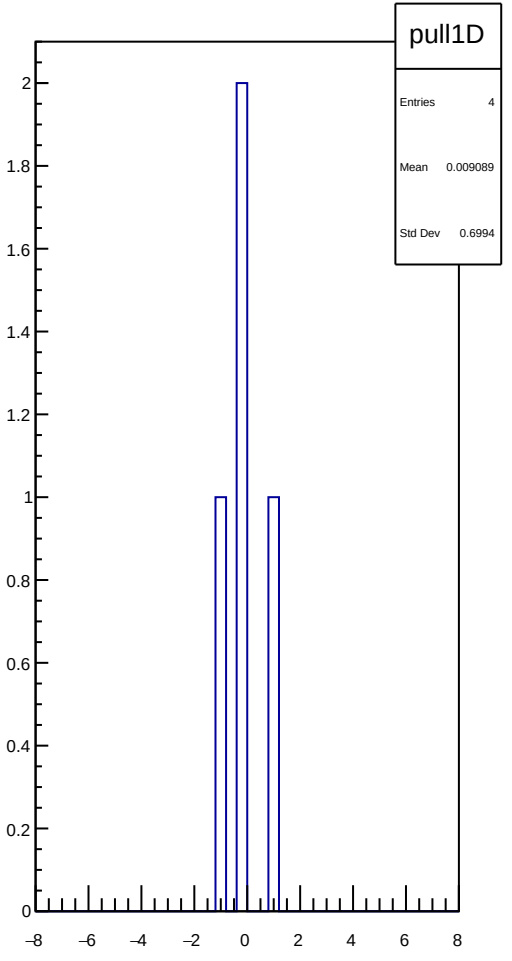

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 266 / 3
p0 351.1 ± 1.193
380
370
360
350
340
330
320
5928. 0
5929. 0
5929. 1
5929. 2

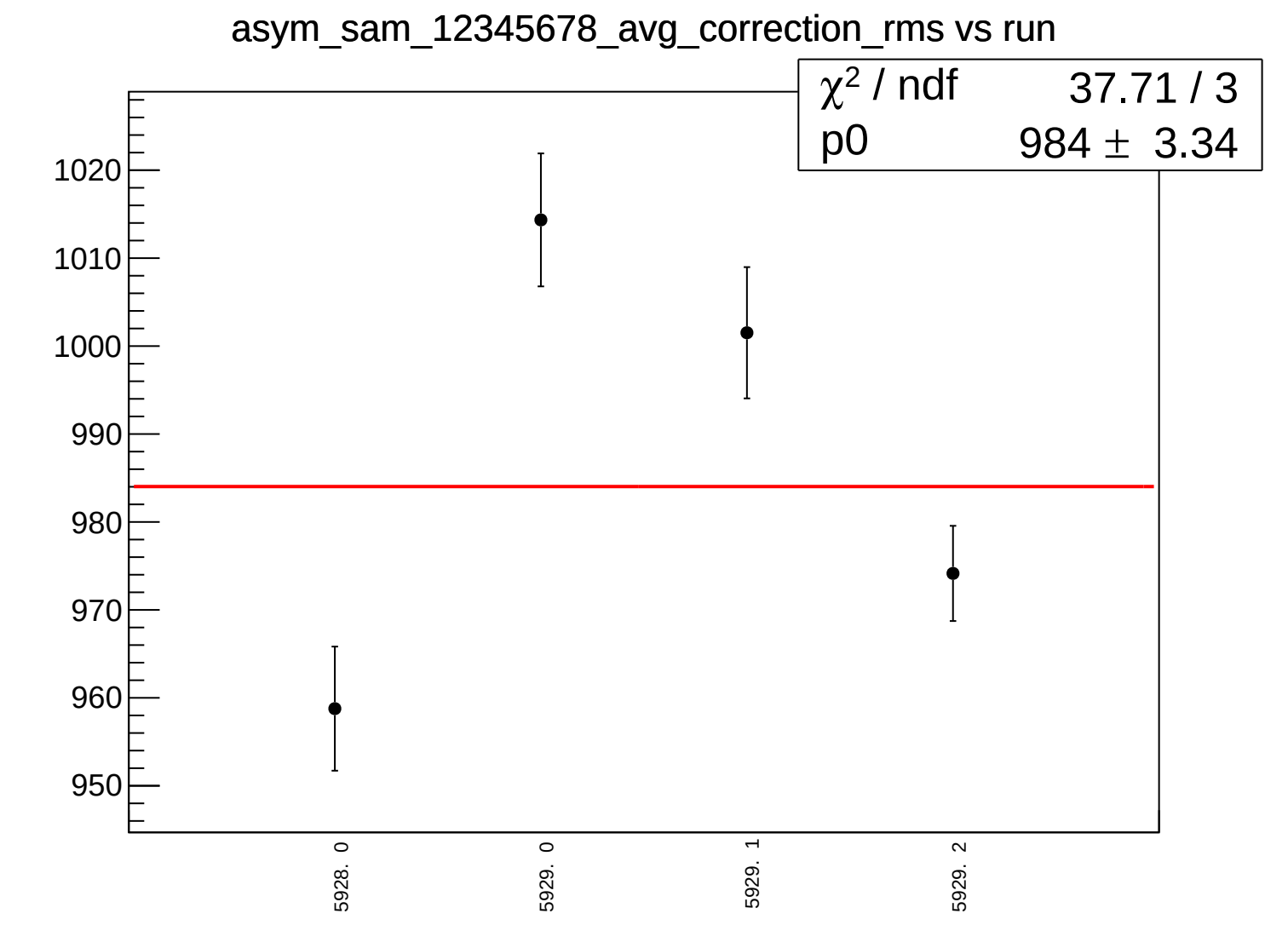

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 1.497 / 3
p0 383 ± 382
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.498
Std Dev 3.911
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

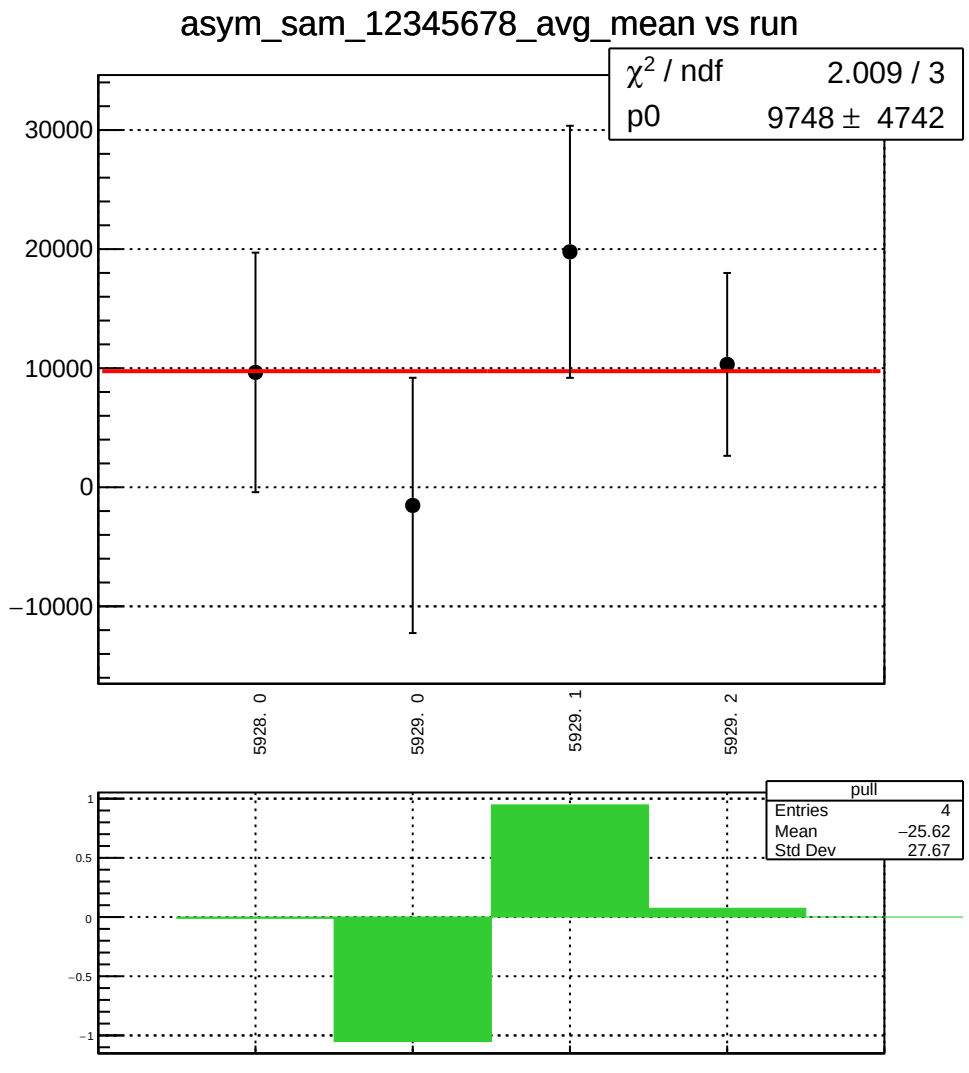

pull1D
Entries 4
Mean −0.1097
Std Dev 0.6019
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

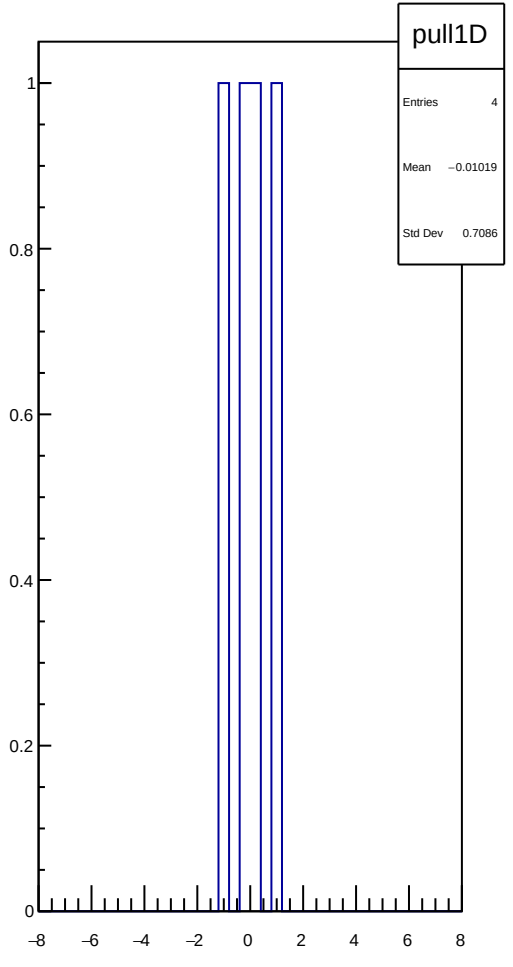

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2550 / 3
p0 78.43 ± 0.2701
120
110
100
90
80
70
5928. 0
5929. 0
5929. 1
5929. 2

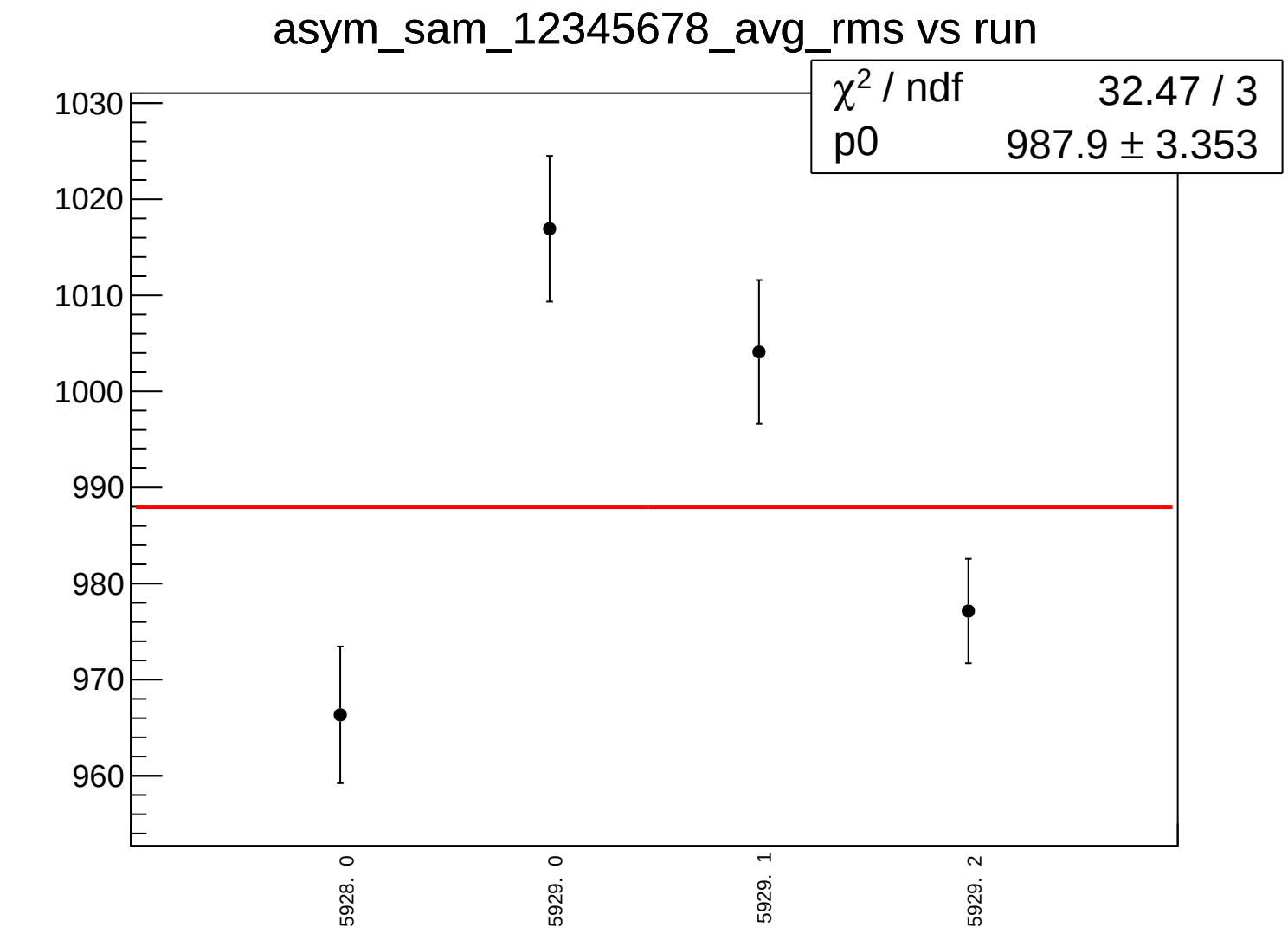

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 1.957 / 3
p0 −9568 ± 4723
10000
0
−10000
−20000
−30000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −22.48
Std Dev 24.65
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

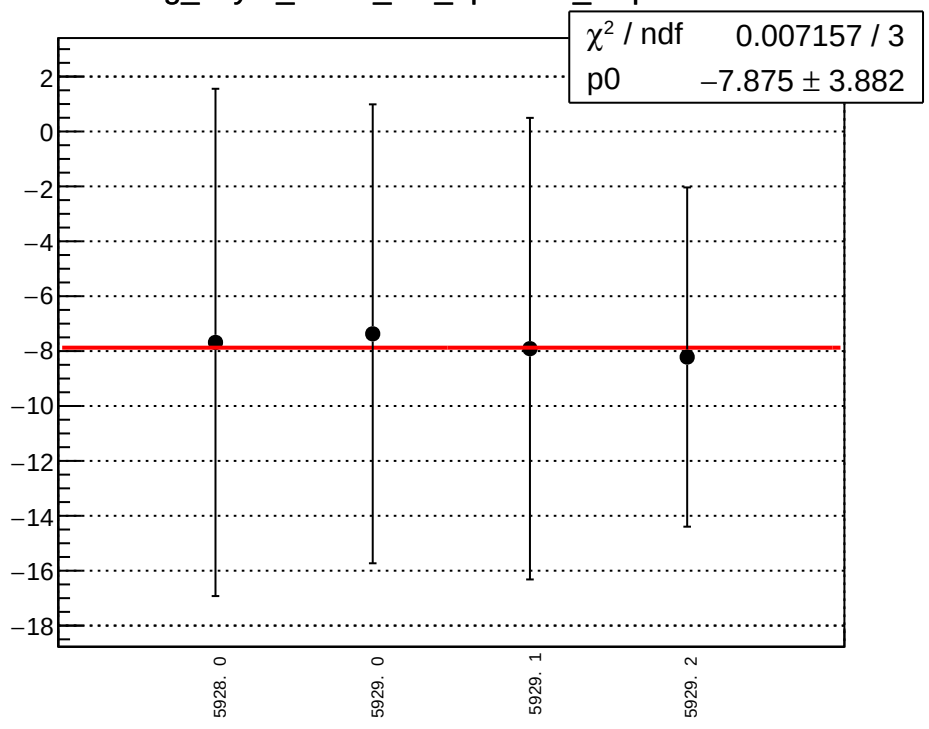

pull1D
Entries 4
Mean 0.009089
Std Dev 0.6994
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

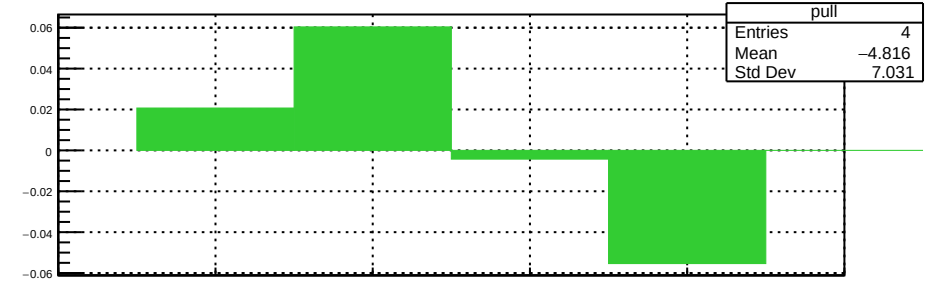

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 37.71 / 3
p0 984 ± 3.34
1020
1010
1000
990
980
970
960
950
5928. 0
5929. 0
5929. 1
5929. 2

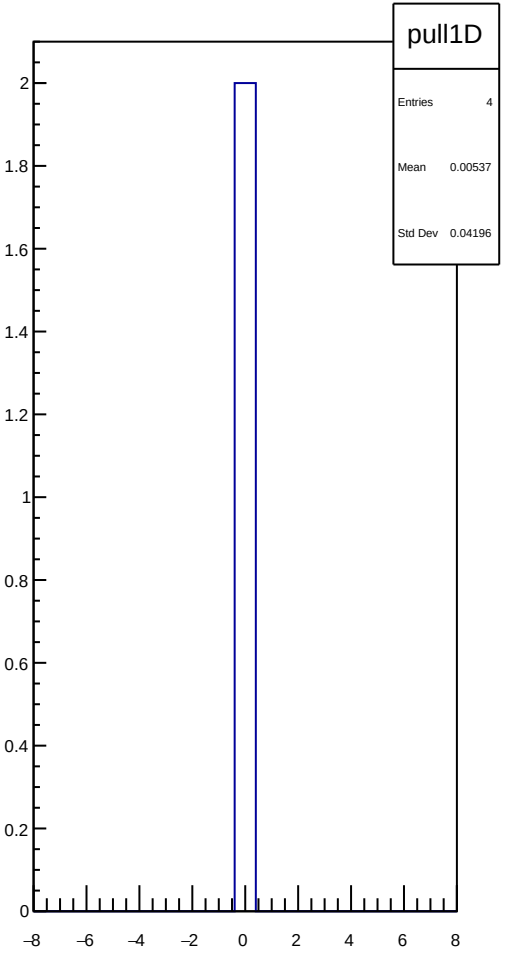

asym_sam_12345678_avg_mean vs run
χ² / ndf 2.009 / 3
p0 9748 ± 4742
30000
20000
10000
0
−10000
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −25.62
Std Dev 27.67
1
0.5
0
−0.5
−1

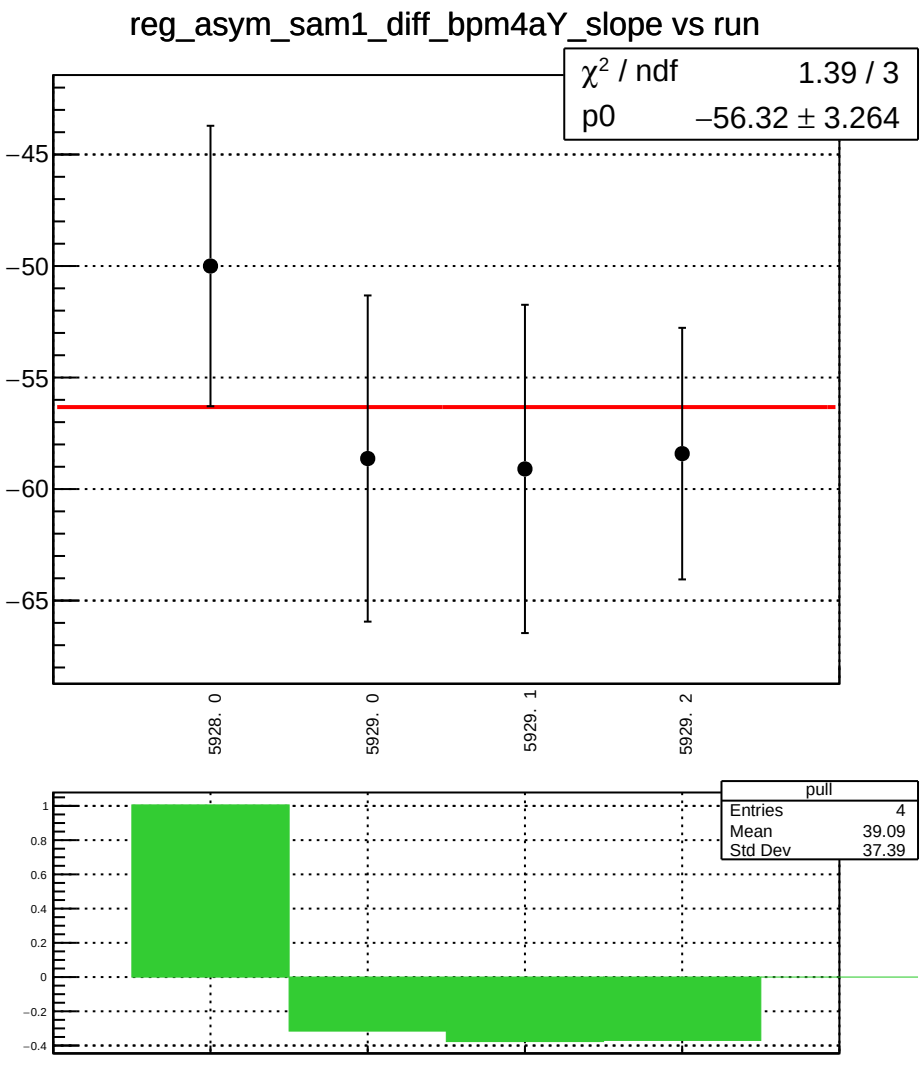

pull1D
Entries 4
Mean −0.01019
Std Dev 0.7086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

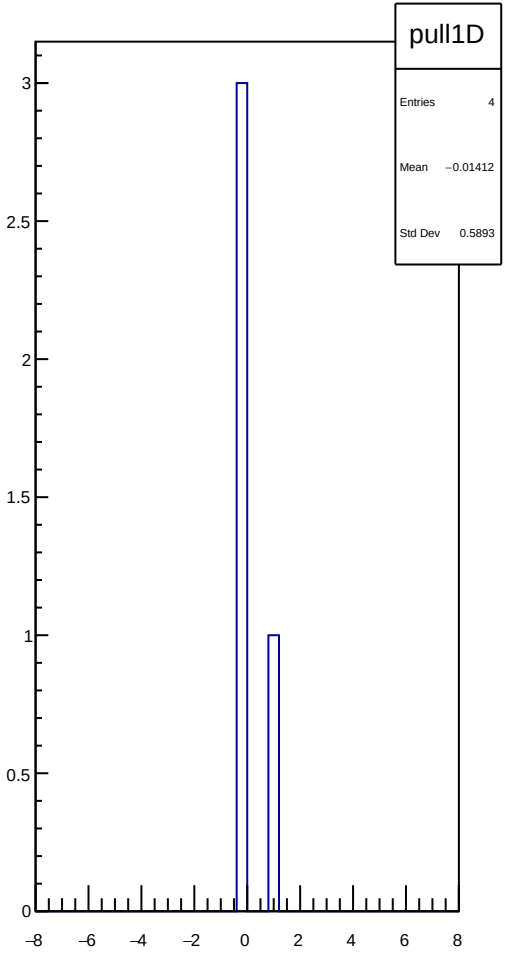

asym_sam_12345678_avg_rms vs run
χ² / ndf 32.47 / 3
p0 987.9 ± 3.353
1030
1020
1010
1000
990
980
970
960
5928. 0
5929. 0
5929. 1
5929. 2

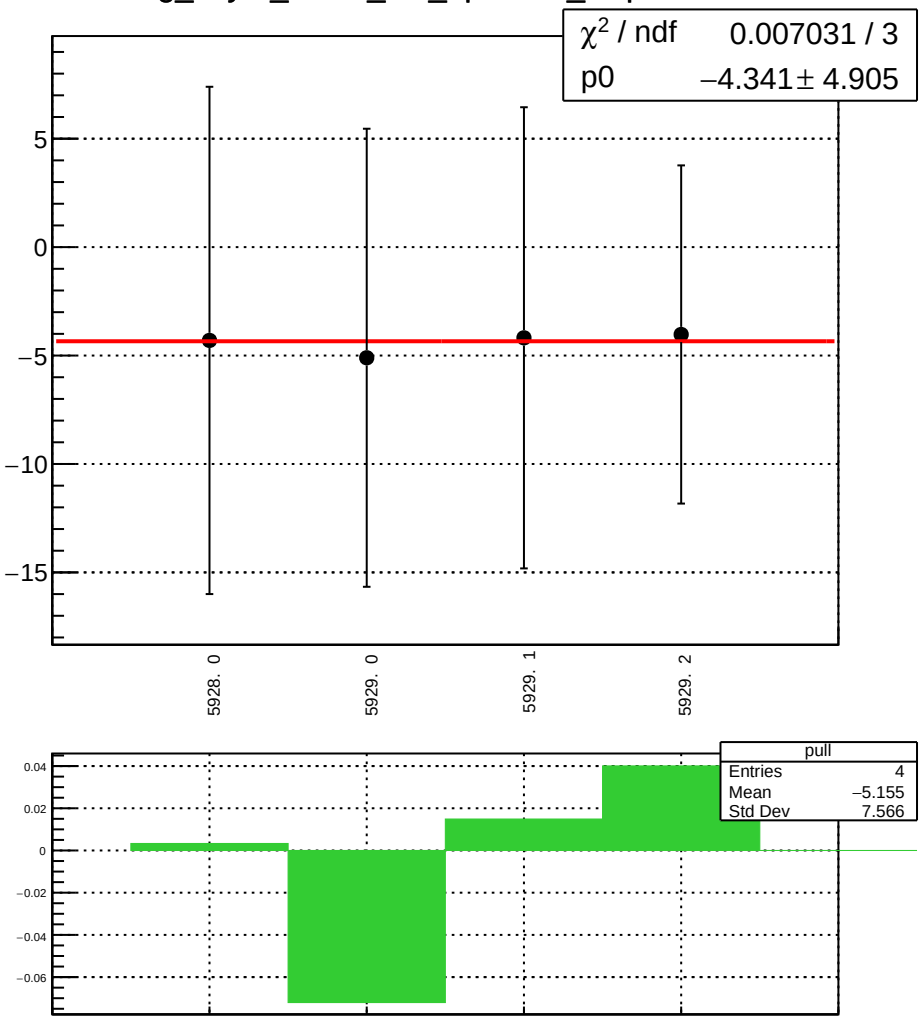

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 0.007157 / 3
p0 −7.875 ± 3.882
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
5928. 0
5929. 0
5929. 1
5929. 2

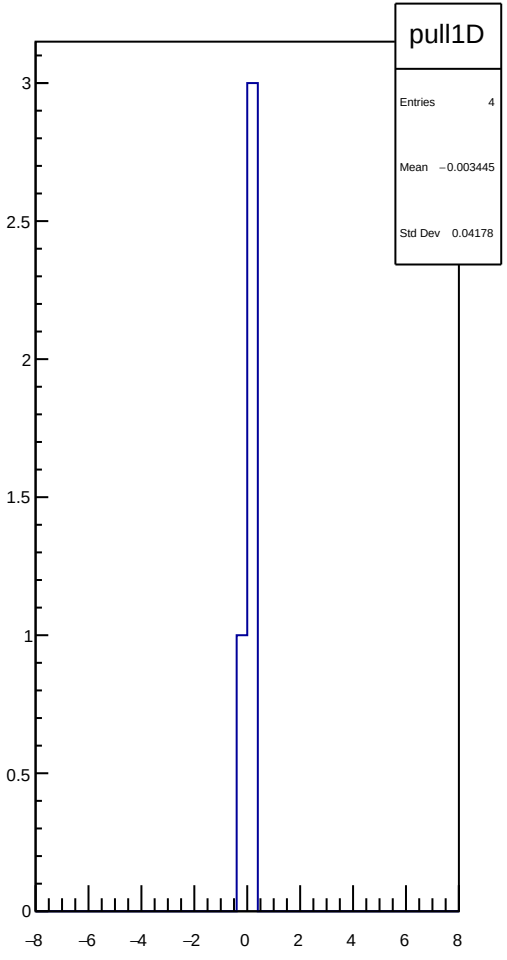

pull
Entries 4
Mean −4.816
Std Dev 7.031
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

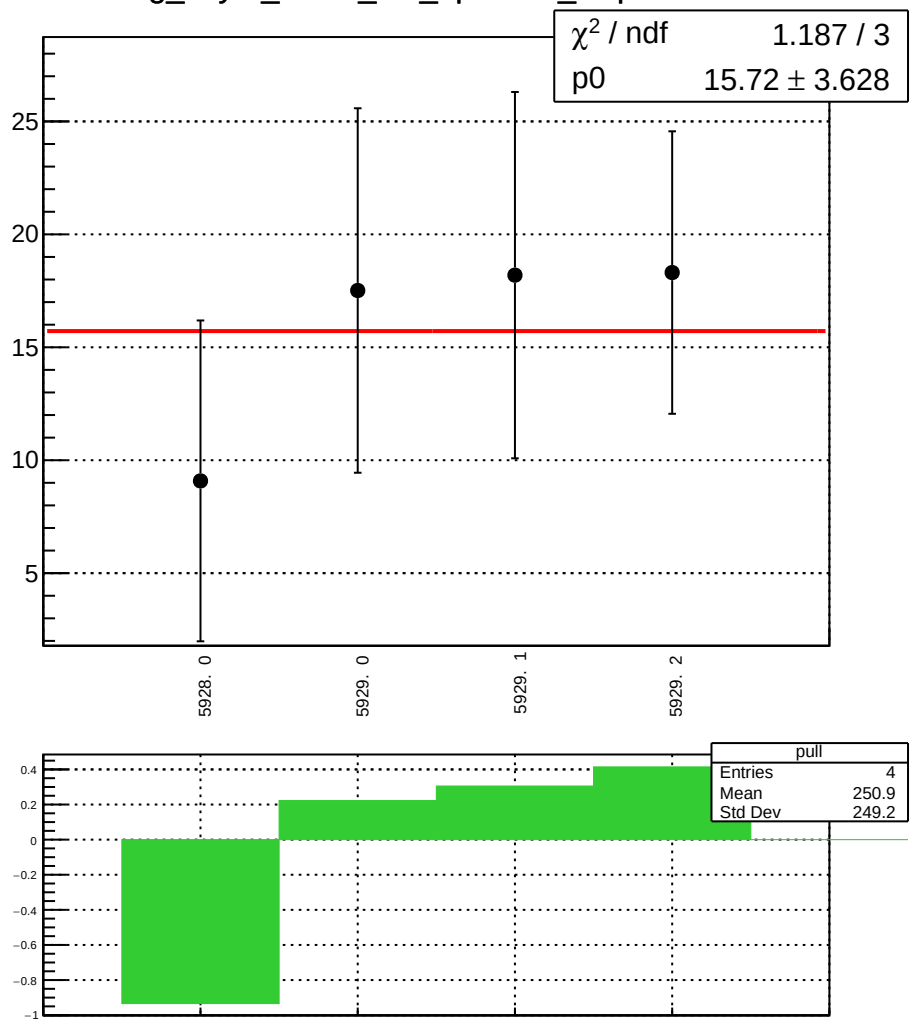

pull1D
Entries 4
Mean 0.00537
Std Dev 0.04196
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

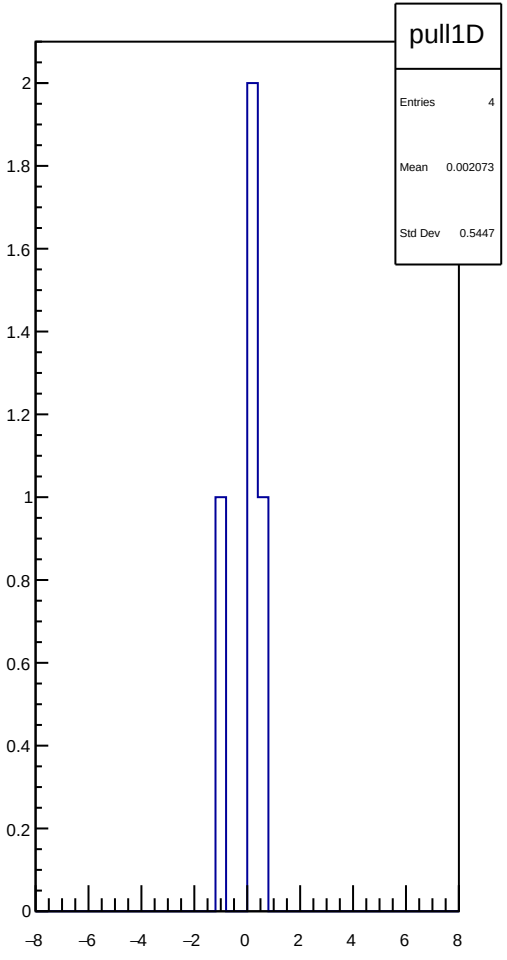

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 1.39 / 3
p0 −56.32 ± 3.264
−45
−50
−55
−60
−65
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 39.09
Std Dev 37.39
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

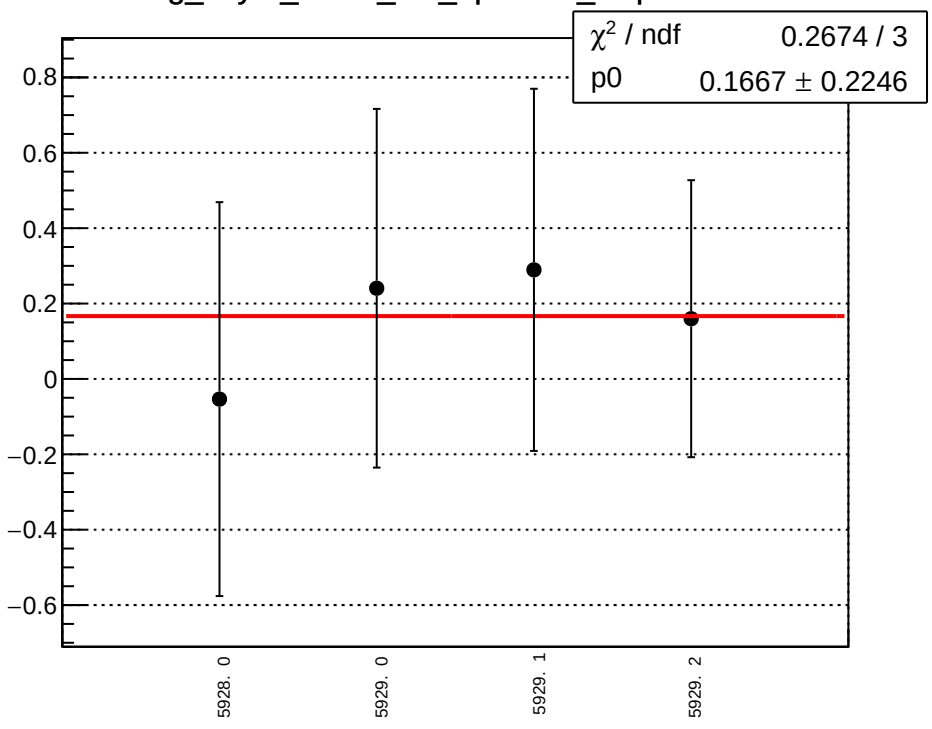

pull1D
Entries 4
Mean −0.01412
Std Dev 0.5893
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

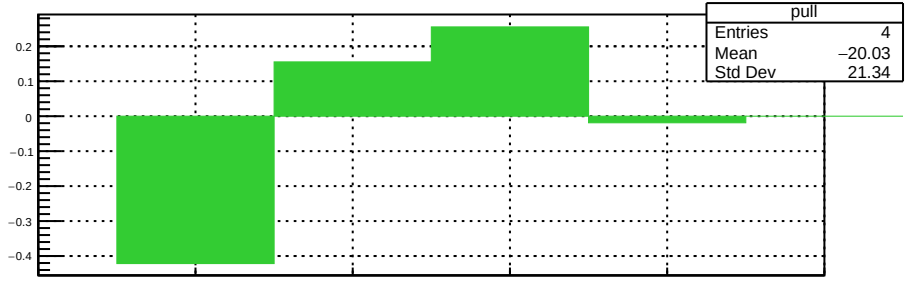

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 0.007031 / 3
p0 −4.341 ± 4.905
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.155
Std Dev 7.566
0.04
0.02
0
−0.02
−0.04
−0.06

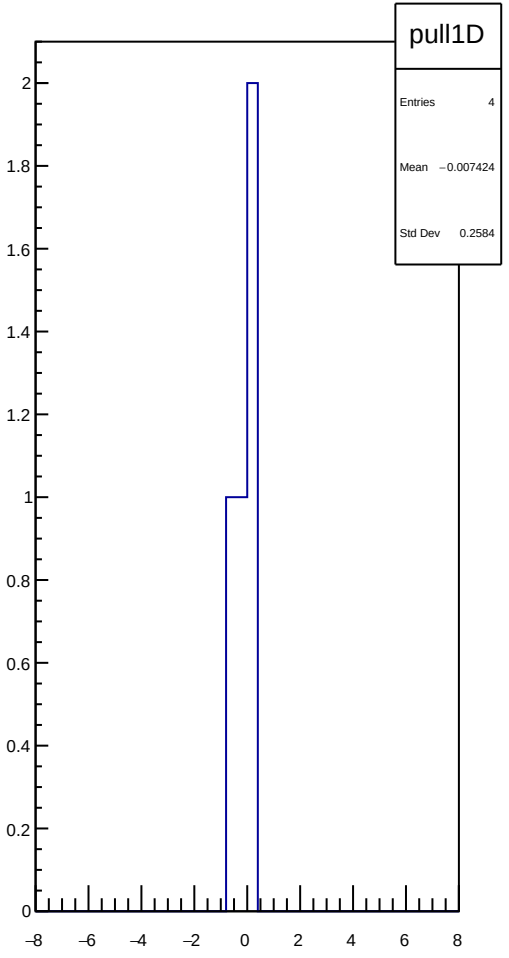

pull1D
Entries 4
Mean −0.003445
Std Dev 0.04178
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

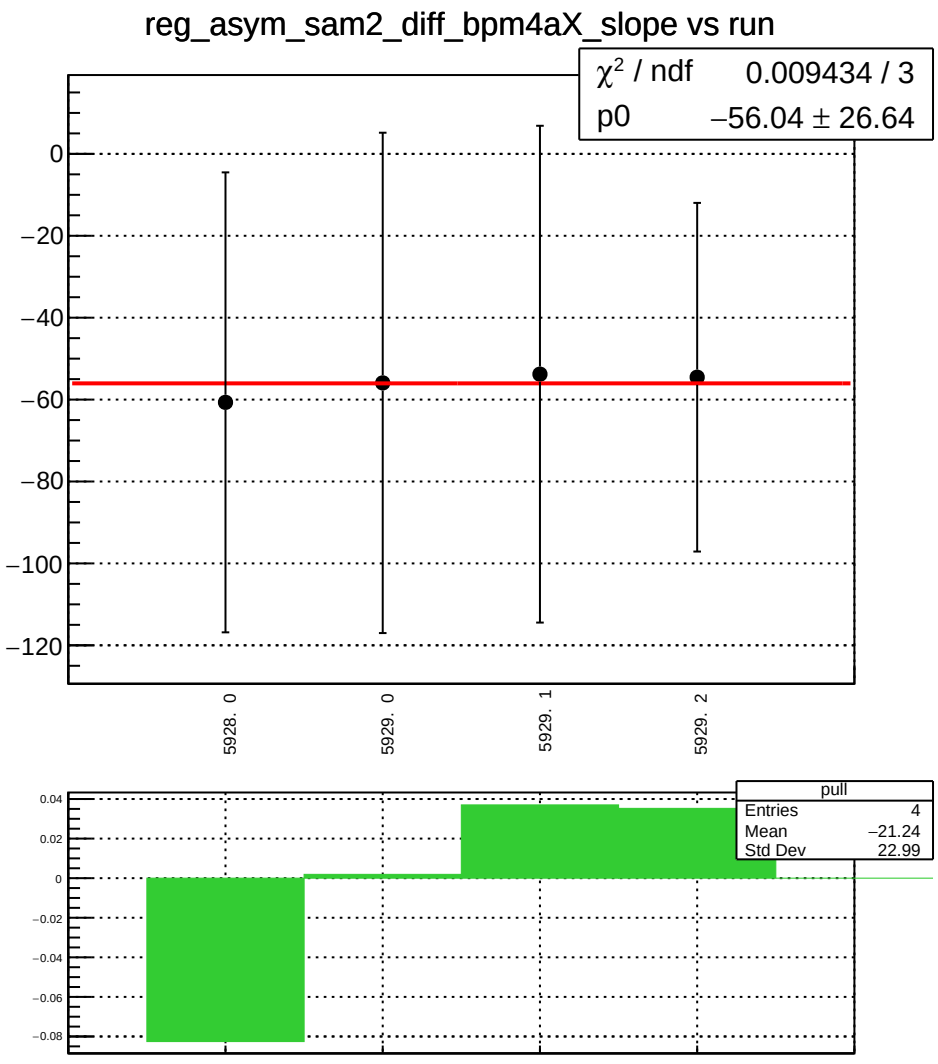

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 1.187 / 3
p0 15.72 ± 3.628
25
20
15
10
5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 250.9
Std Dev 249.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

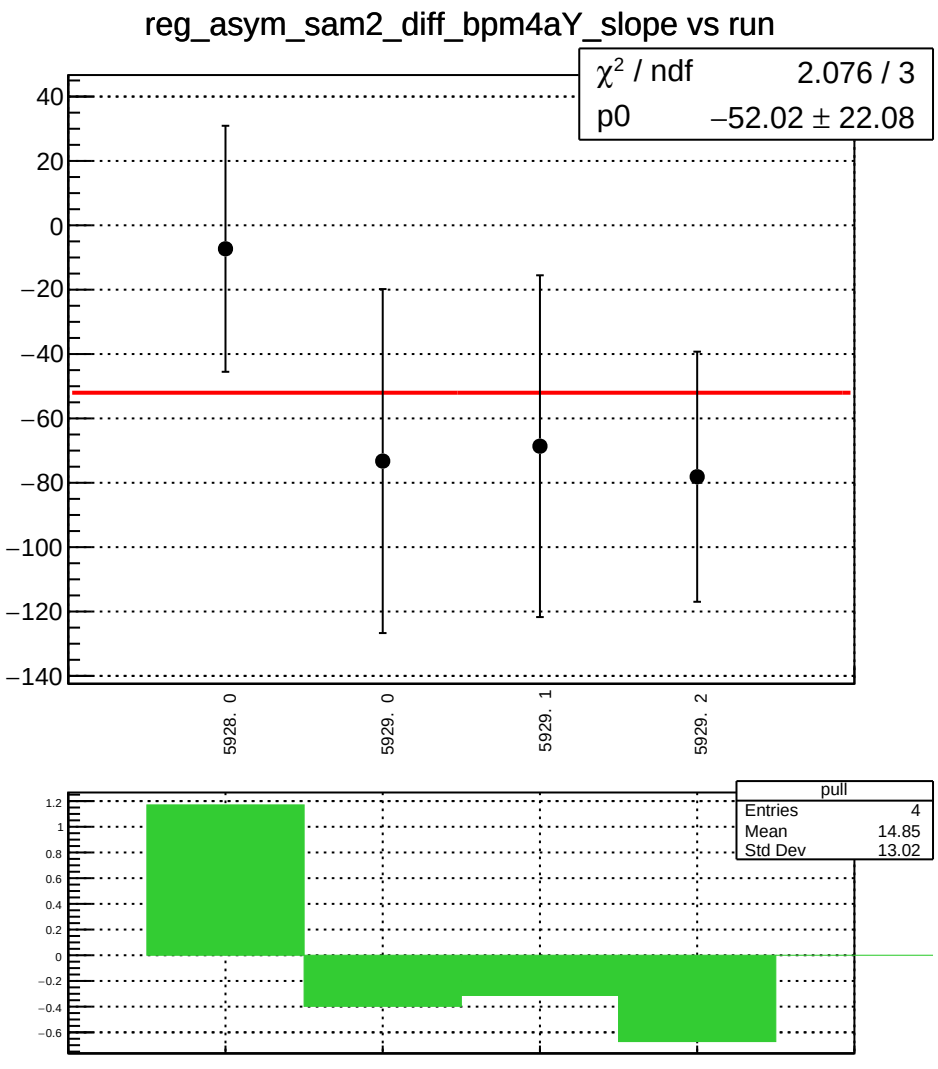

pull1D
Entries 4
Mean 0.002073
Std Dev 0.5447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

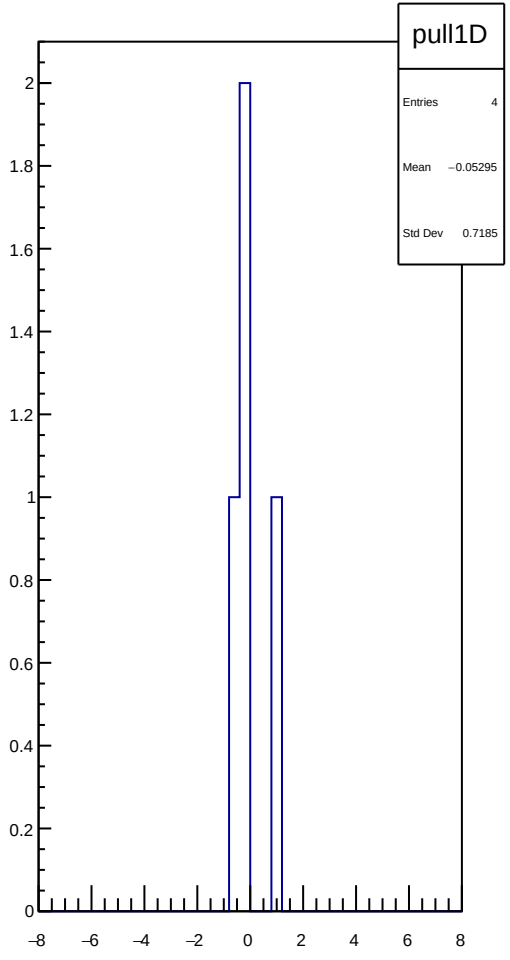

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 0.2674 / 3
p0 0.1667 ± 0.2246
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5928. 0
5929. 0
5929. 1
5929. 2

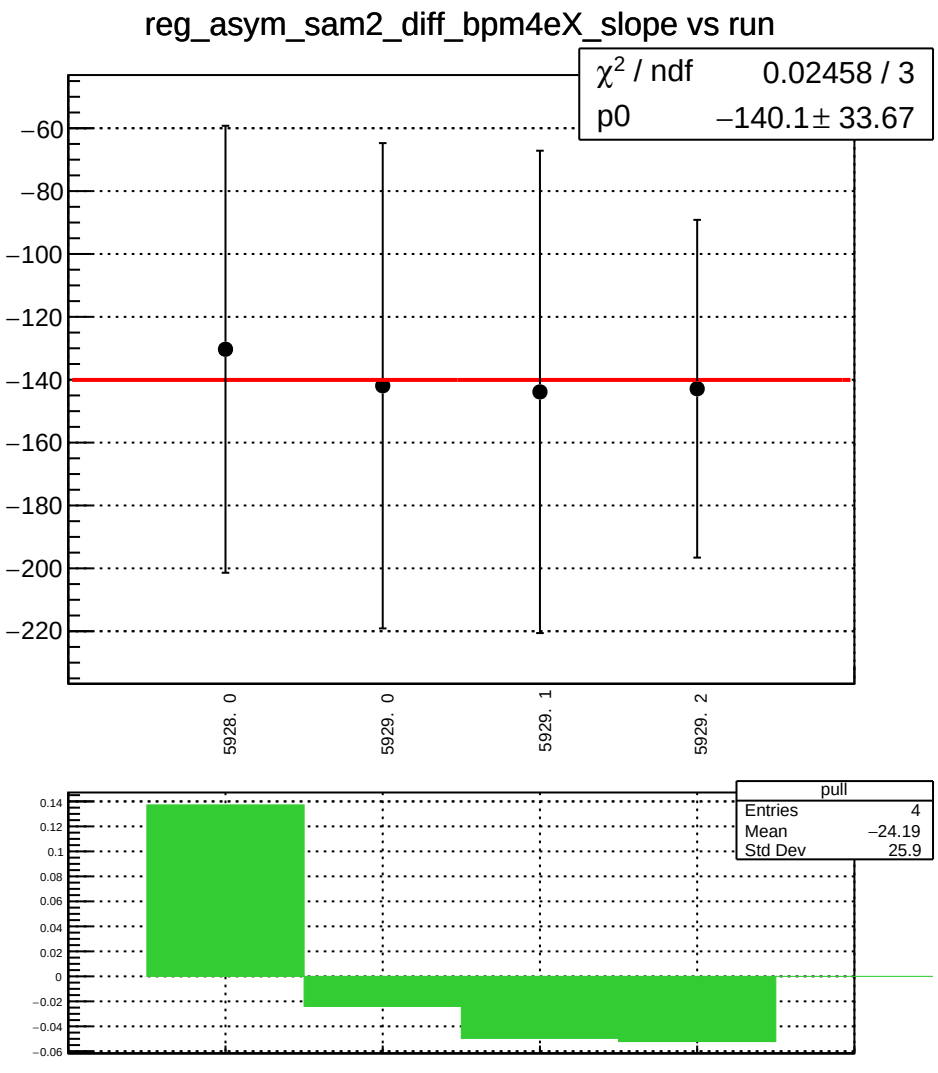

pull
Entries 4
Mean −20.03
Std Dev 21.34
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

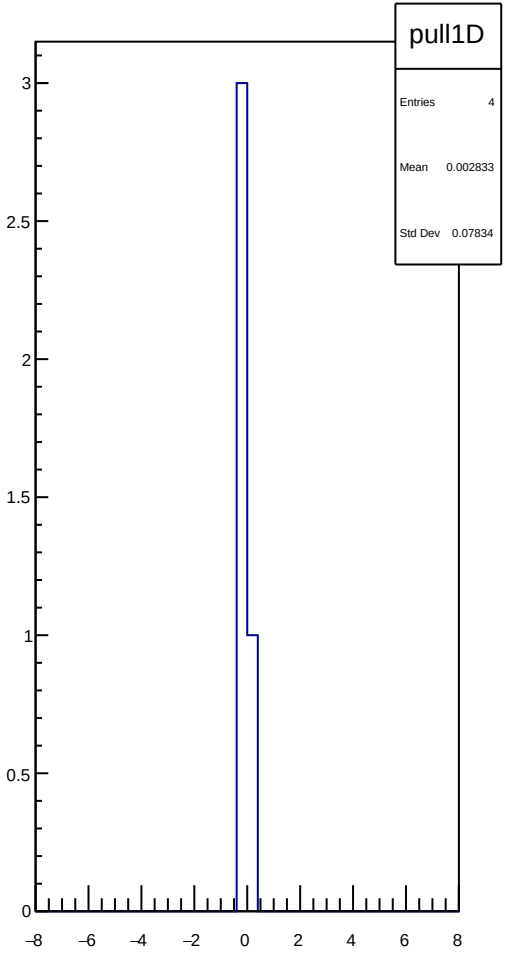

pull1D
Entries 4
Mean −0.007424
Std Dev 0.2584
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

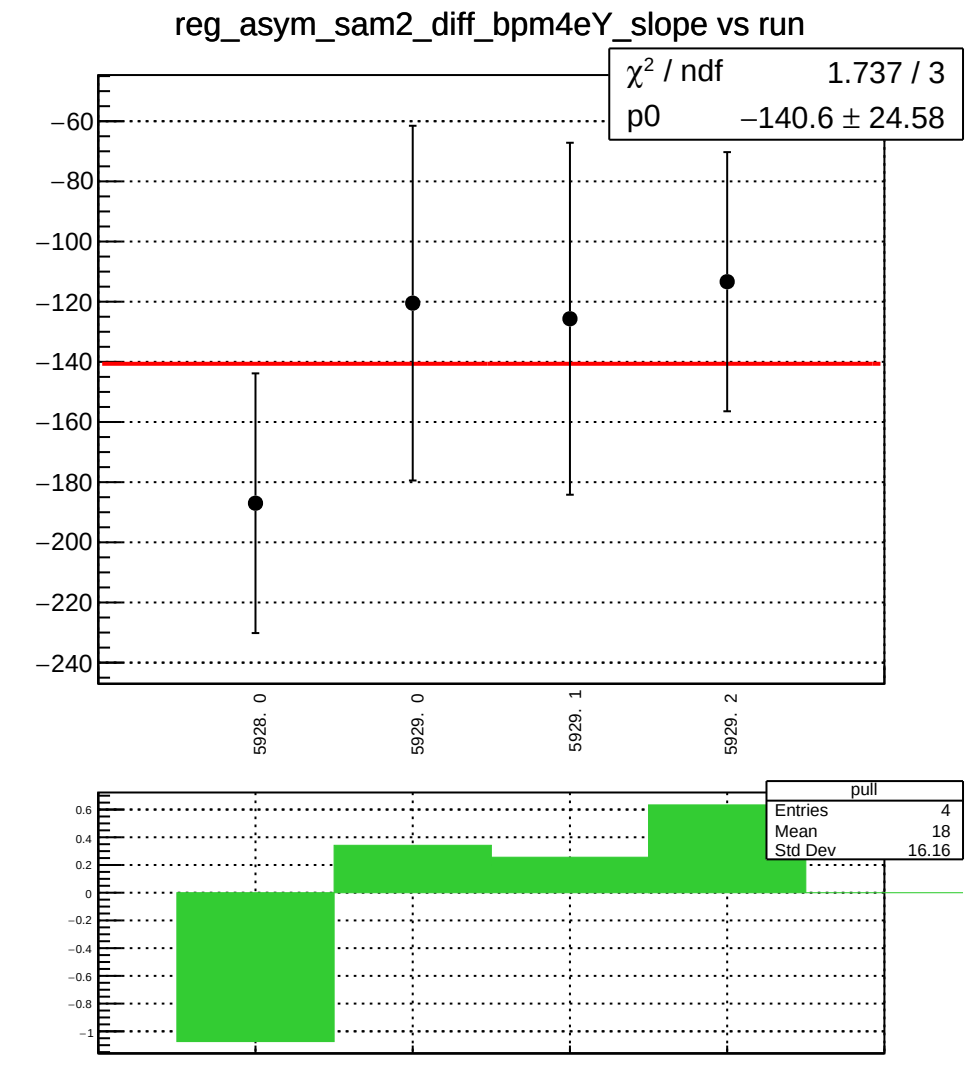

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 0.009434 / 3
p0 −56.04 ± 26.64
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −21.24
Std Dev 22.99
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.00209
Std Dev 0.04852
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

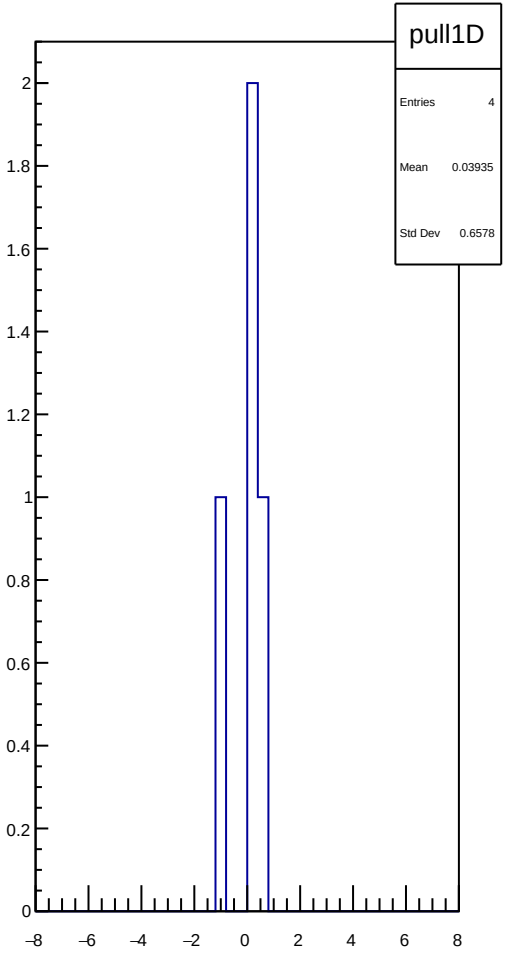

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.076 / 3
p0 −52.02 ± 22.08
40
20
0
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 14.85
Std Dev 13.02
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

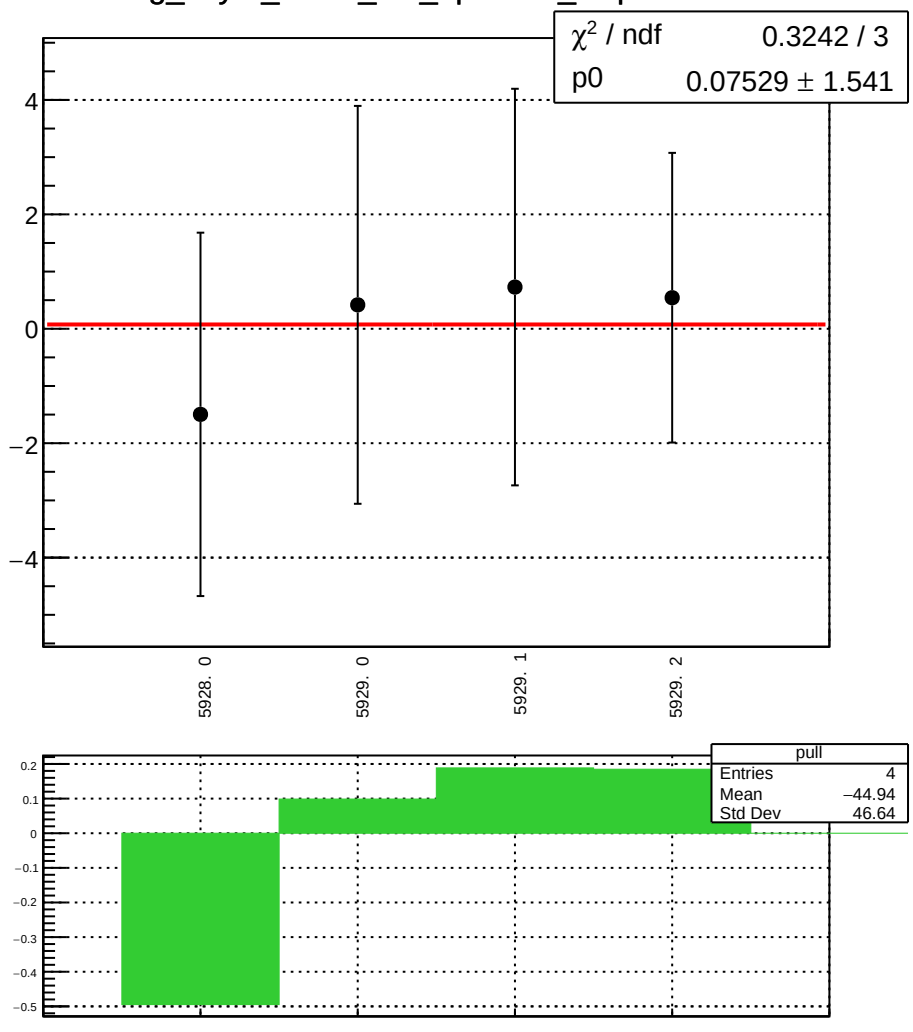

pull1D
Entries 4
Mean −0.05295
Std Dev 0.7185
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

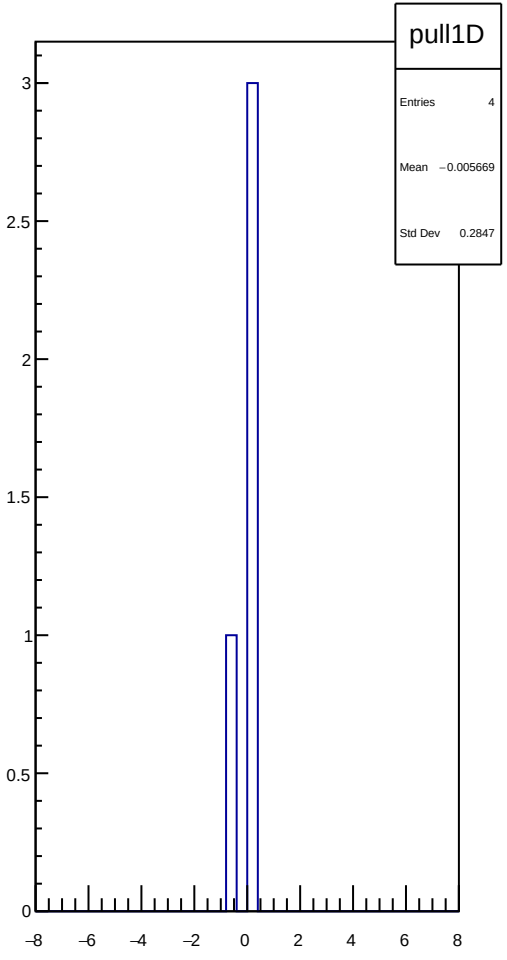

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.02458 / 3
p0 −140.1± 33.67
−60
−80
−100
−120
−140
−160
−180
−200
−220
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −24.19
Std Dev 25.9
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

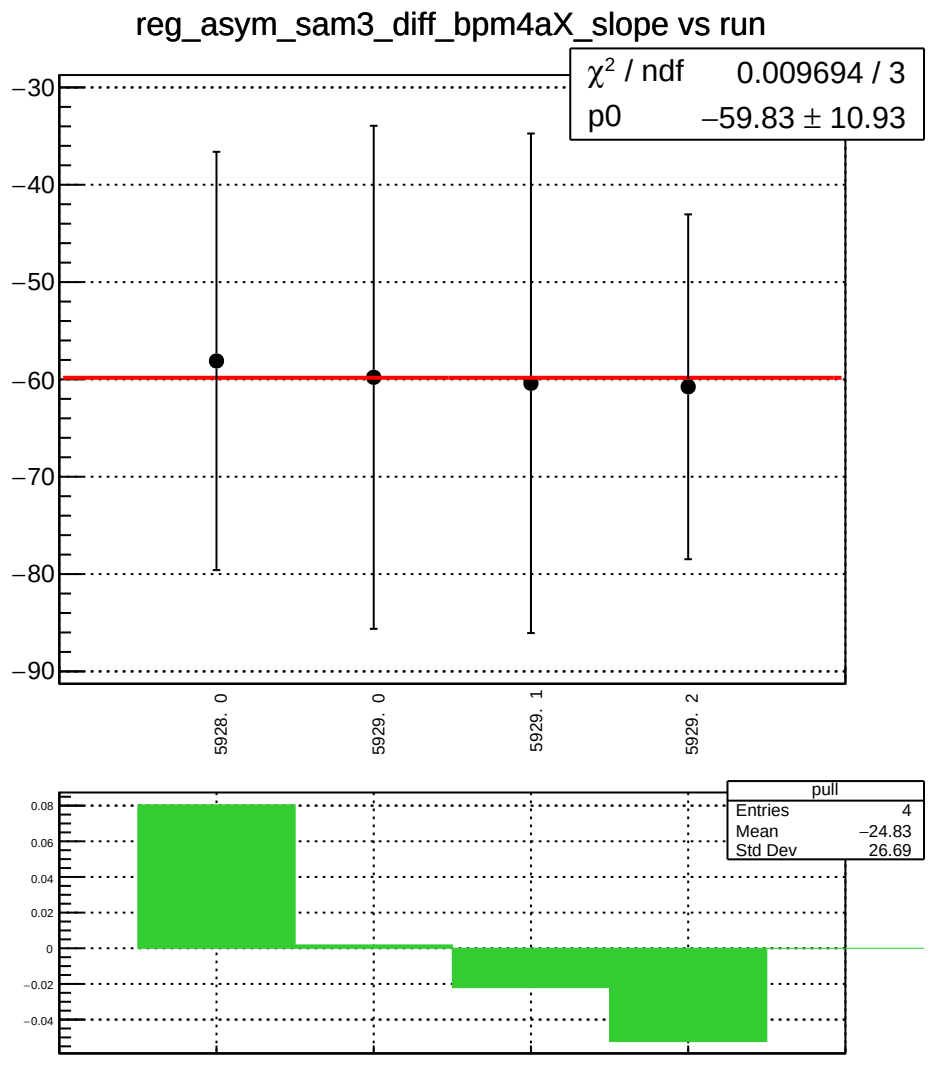

pull1D
Entries 4
Mean 0.002833
Std Dev 0.07834
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

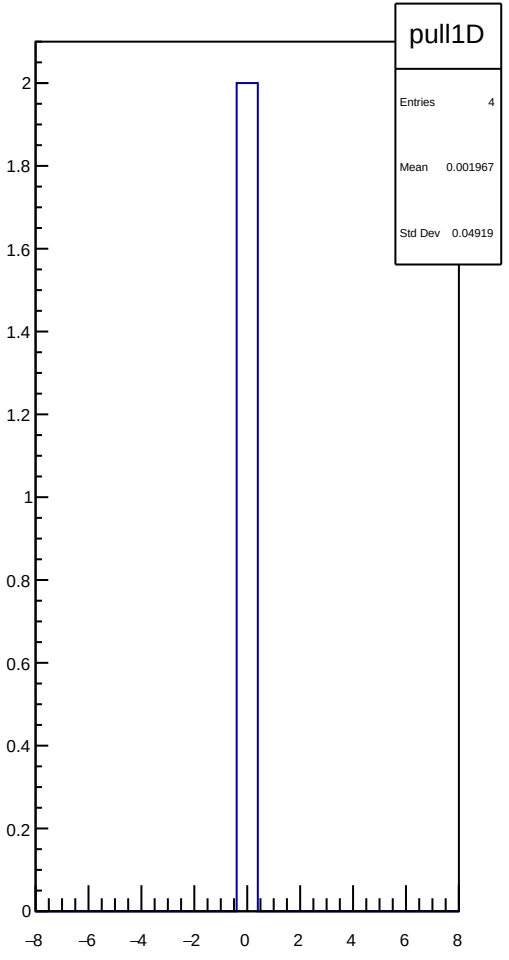

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.737 / 3
p0 −140.6 ± 24.58
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 18
Std Dev 16.16
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

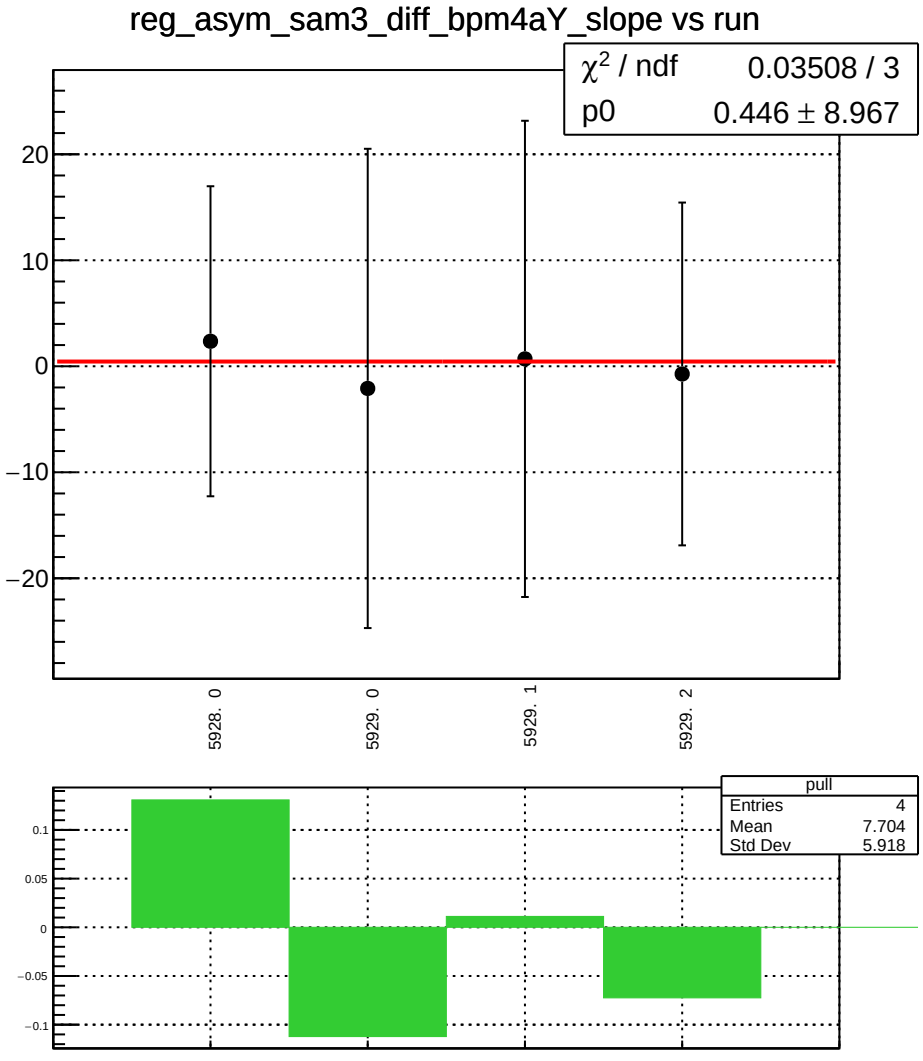

pull1D
Entries 4
Mean 0.03935
Std Dev 0.6578
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

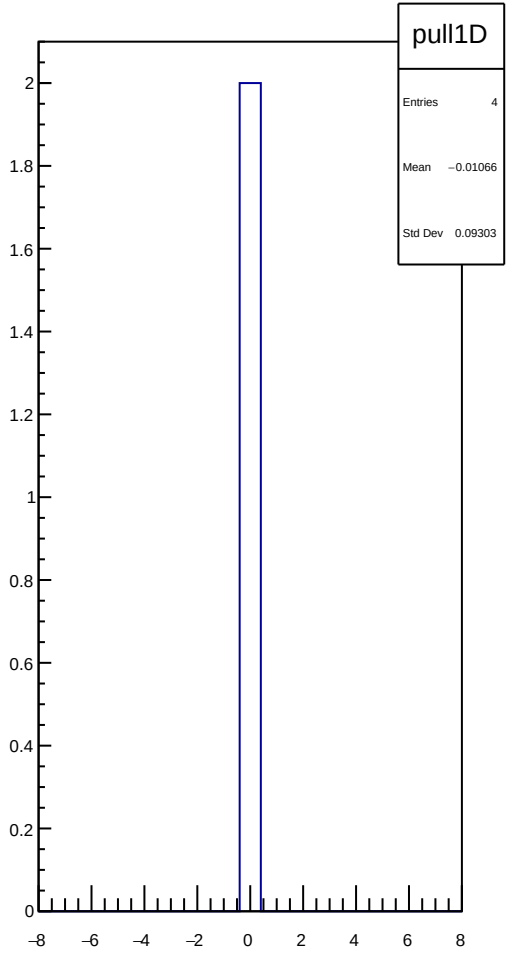

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.3242 / 3
p0 0.07529 ± 1.541
4
2
0
−2
−4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −44.94
Std Dev 46.64
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

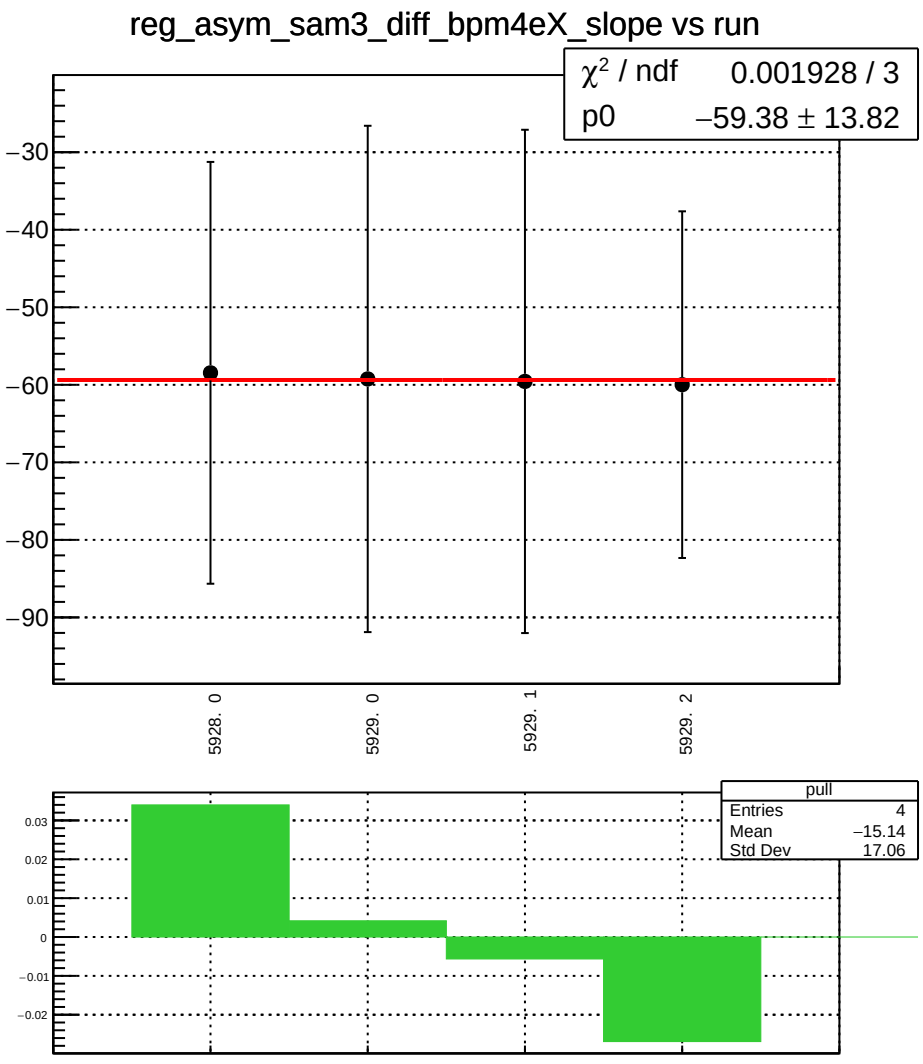

pull1D
Entries 4
Mean −0.005669
Std Dev 0.2847
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

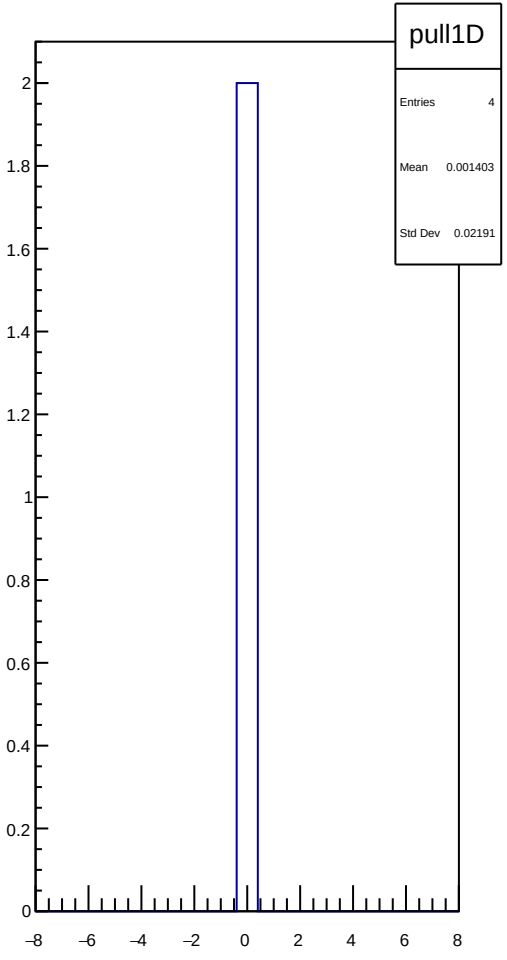

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.009694 / 3
p0 −59.83 ± 10.93
−30
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −24.83
Std Dev 26.69
0.08
0.06
0.04
0.02
0
−0.02
−0.04

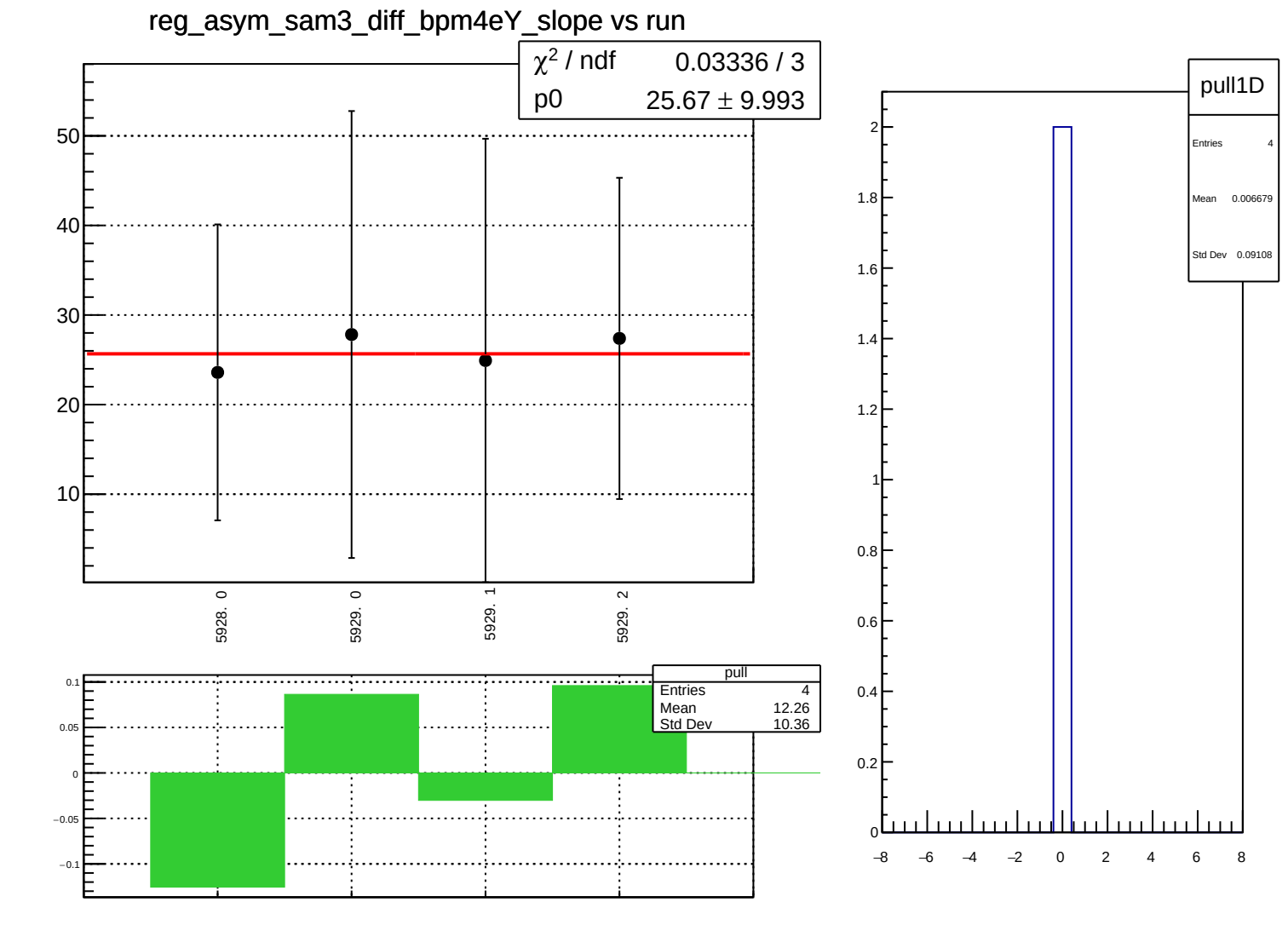

pull1D
Entries 4
Mean 0.001967
Std Dev 0.04919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

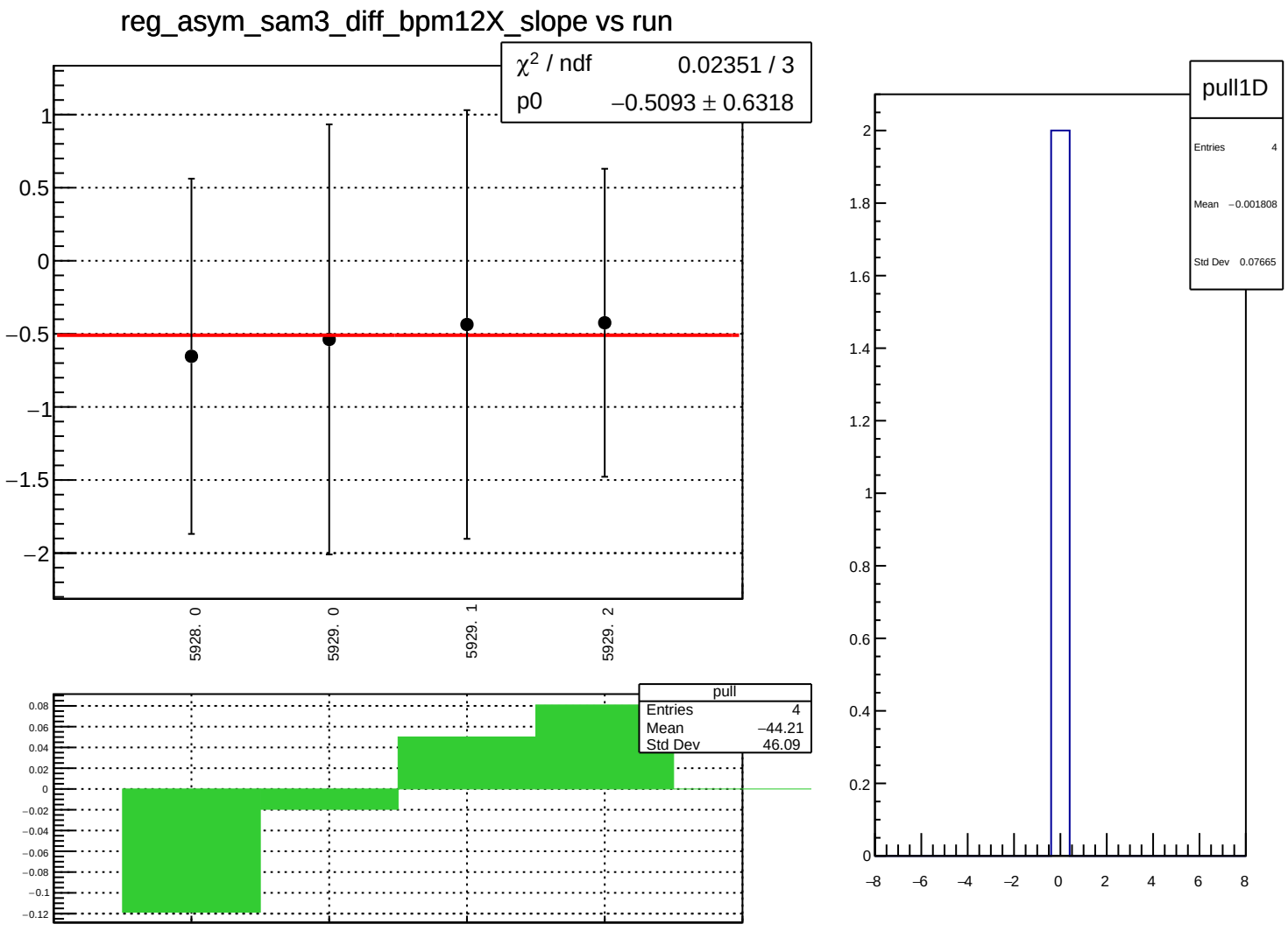

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.03508 / 3
p0 0.446 ± 8.967
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.704
Std Dev 5.918
0.1
0.05
0
−0.05
−0.1

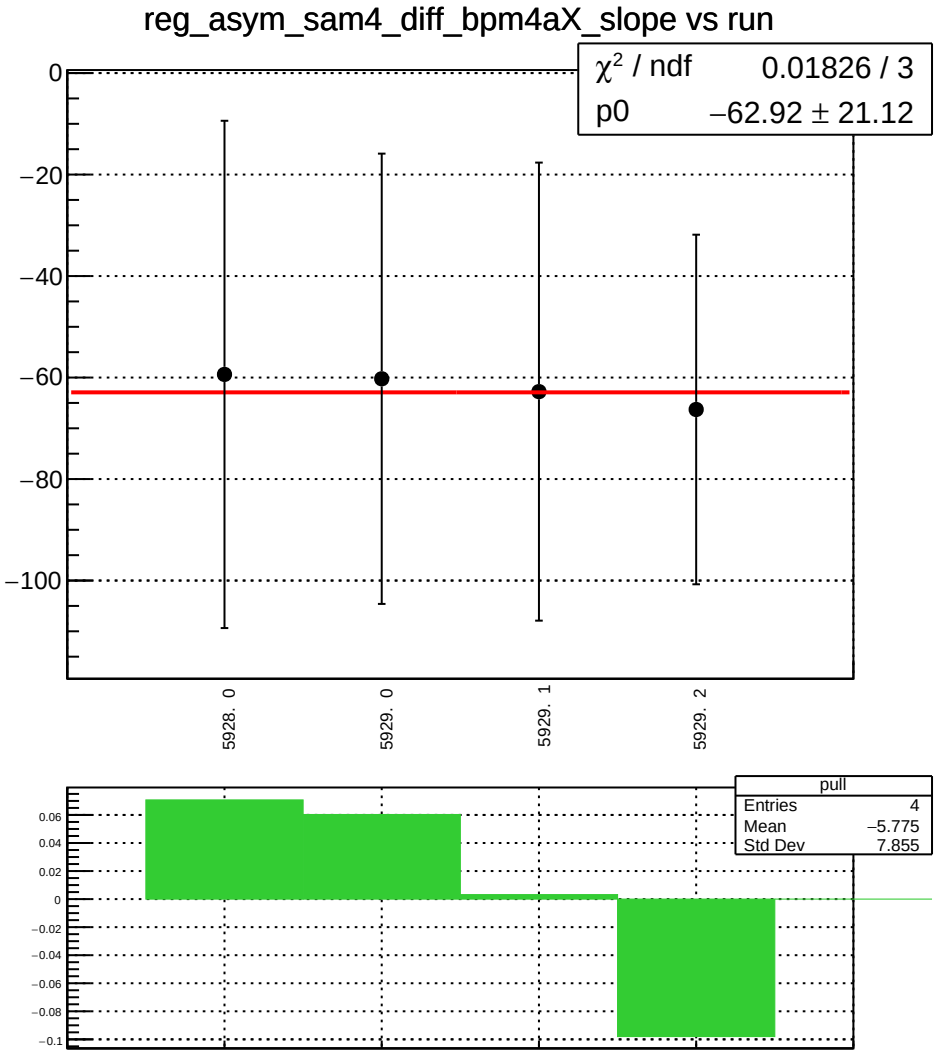

pull1D
Entries 4
Mean −0.01066
Std Dev 0.09303
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

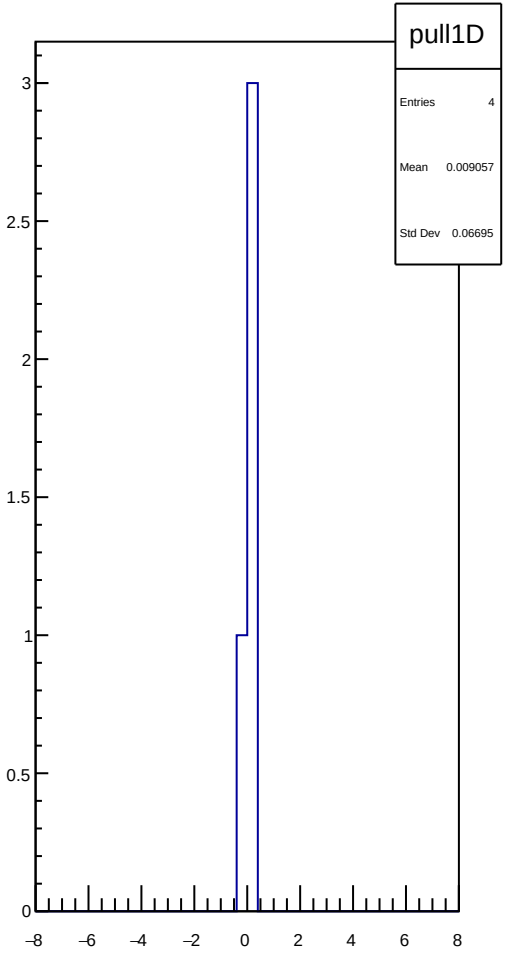

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.001928 / 3
p0 −59.38 ± 13.82
−30
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −15.14
Std Dev 17.06
0.03
0.02
0.01
0
−0.01
−0.02

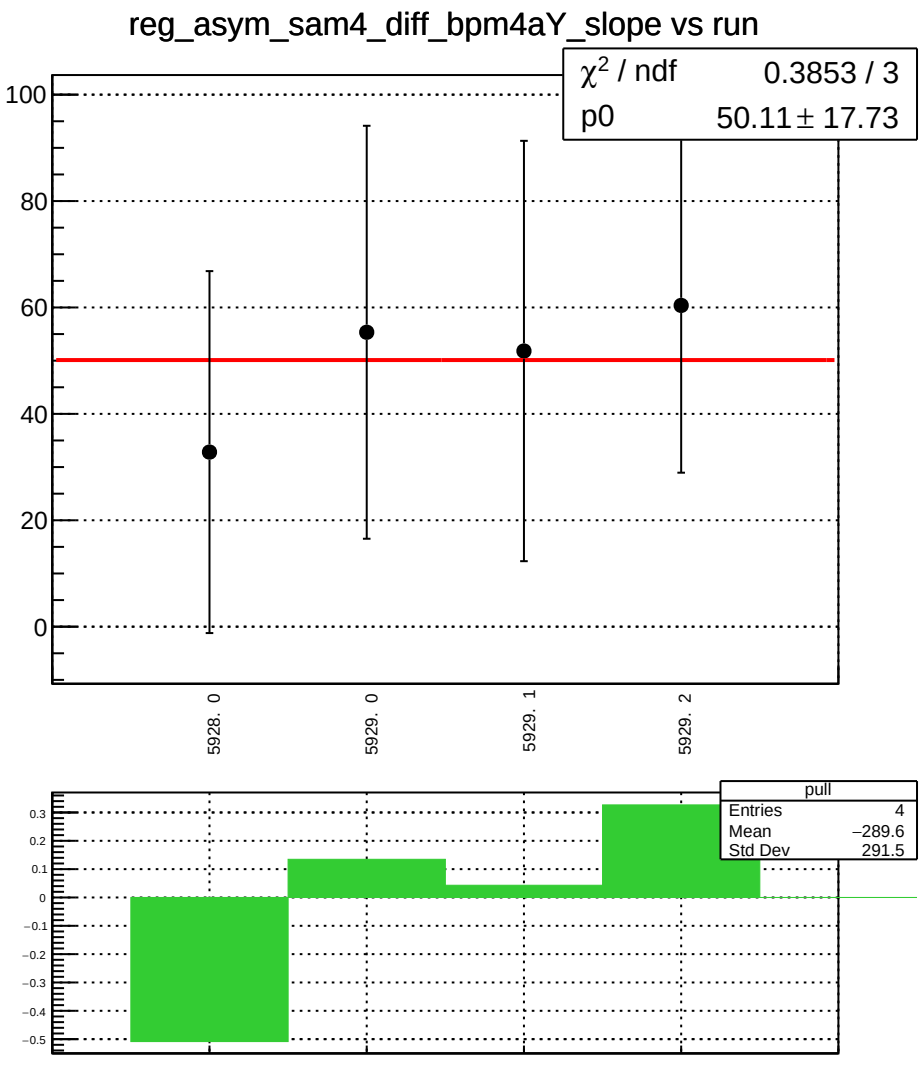

pull1D
Entries 4
Mean 0.001403
Std Dev 0.02191
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

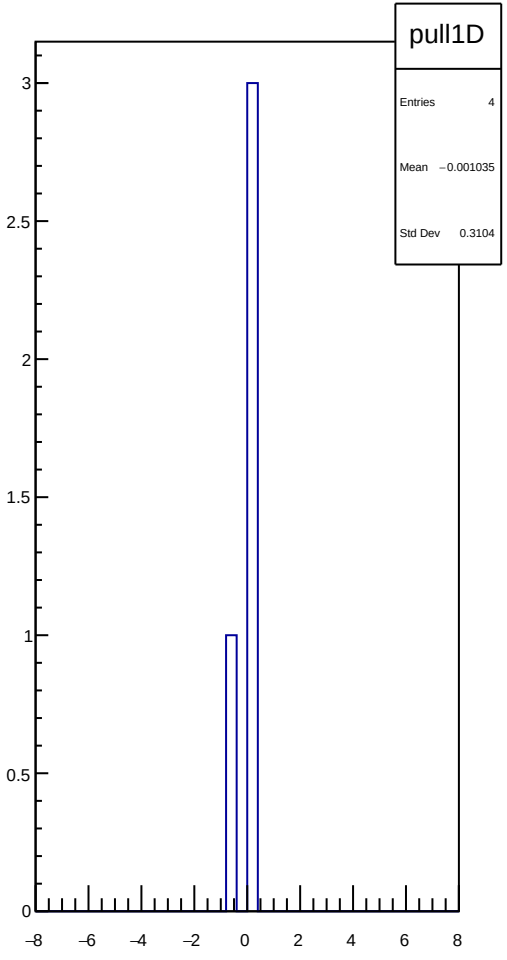

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.03336 / 3
p0 25.67 ± 9.993
50
40
30
20
10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 12.26
Std Dev 10.36
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.006679
Std Dev 0.09108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

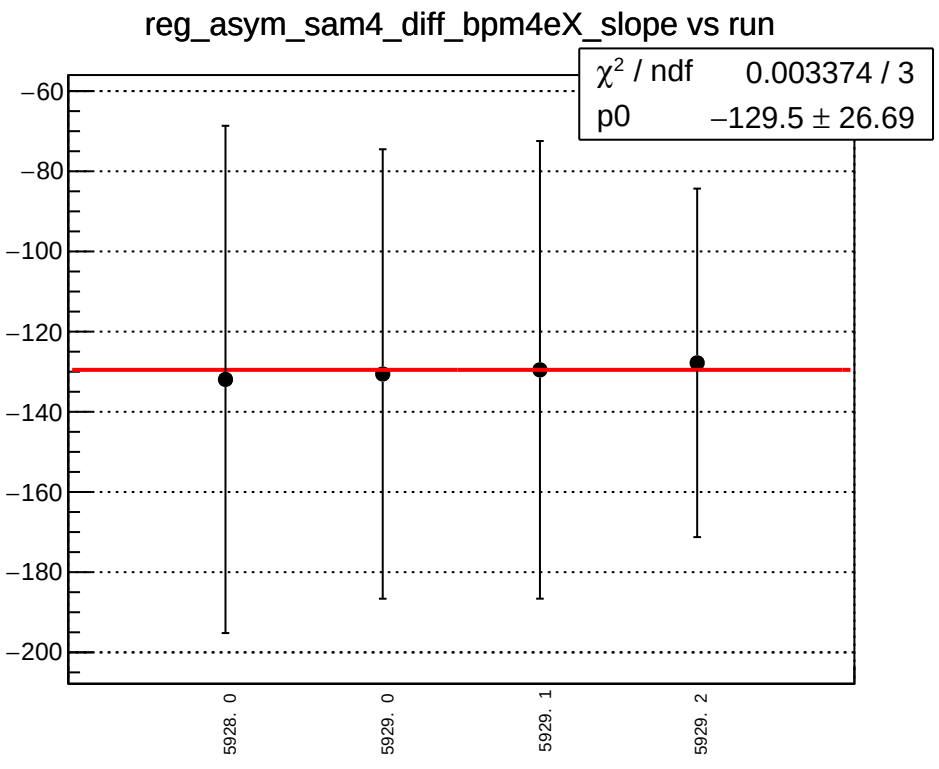

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.02351 / 3
p0 −0.5093 ± 0.6318
1
0.5
0
−0.5
−1
−1.5
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −44.21
Std Dev 46.09
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull1D
Entries 4
Mean −0.001808
Std Dev 0.07665
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

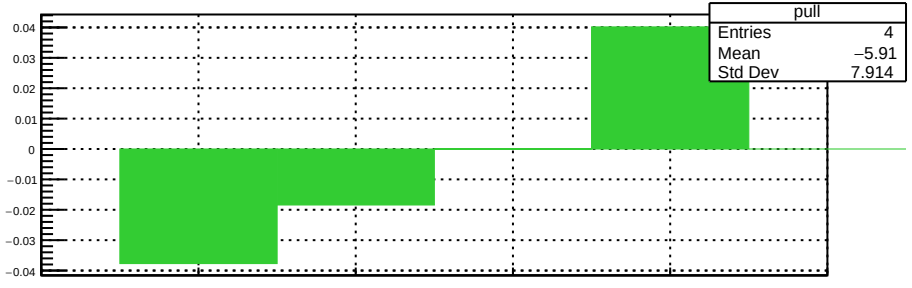

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.01826 / 3
p0 −62.92 ± 21.12
0
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.775
Std Dev 7.855
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

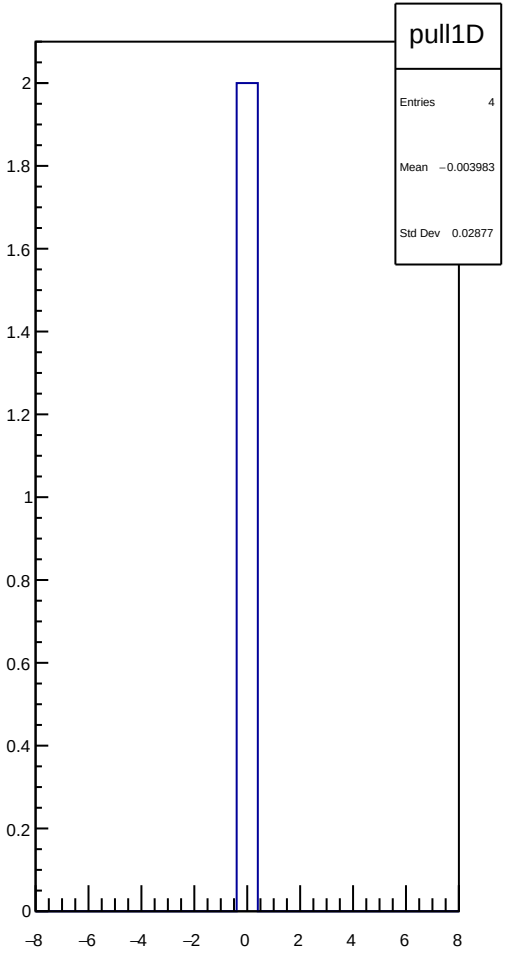

pull1D
Entries 4
Mean 0.009057
Std Dev 0.06695
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

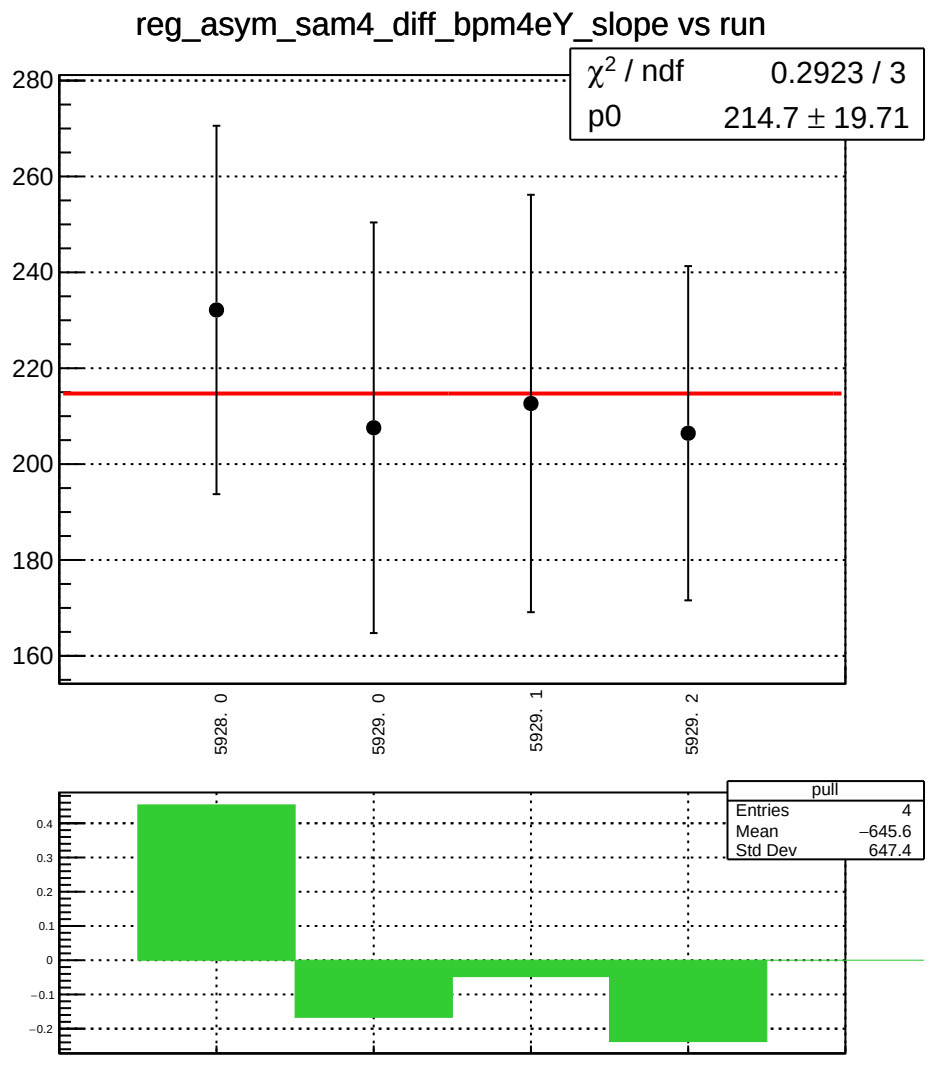

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.3853 / 3
p0 50.11 ± 17.73
100
80
60
40
20
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −289.6
Std Dev 291.5
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

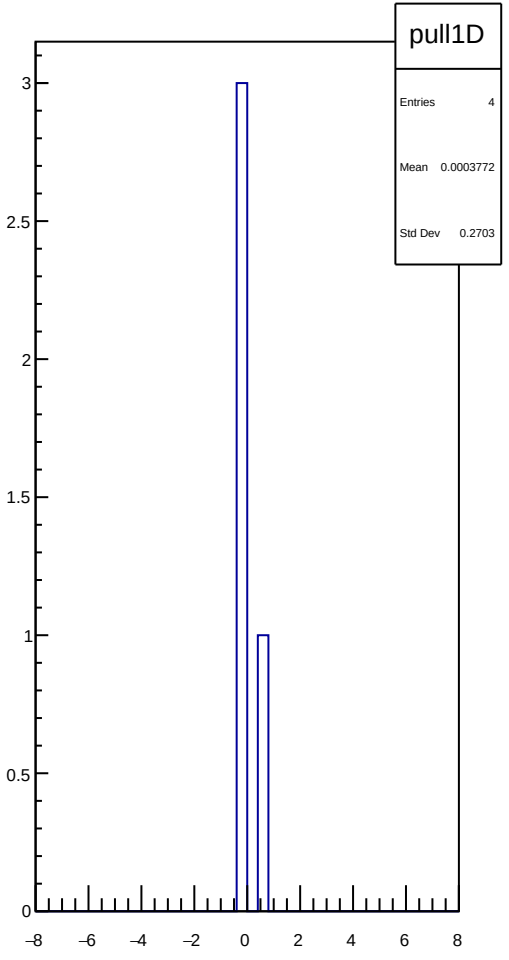

pull1D
Entries 4
Mean −0.001035
Std Dev 0.3104
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

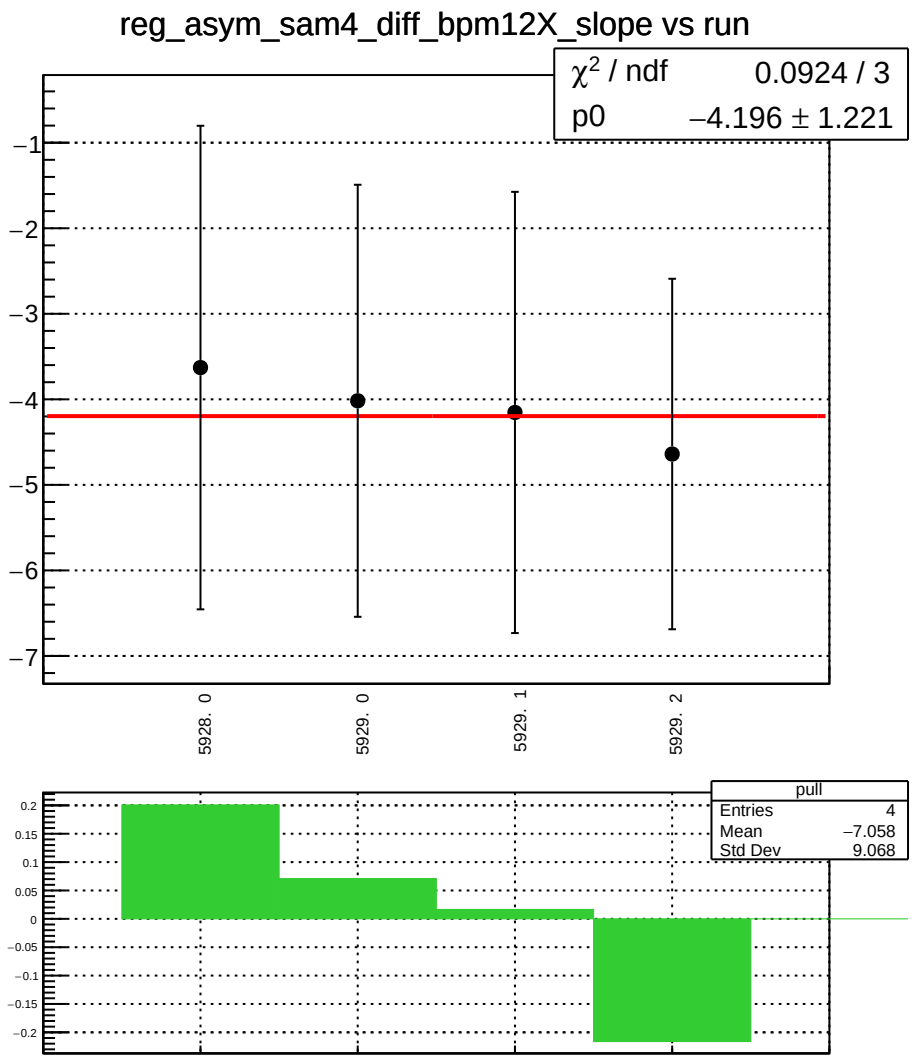

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.003374 / 3
p0 −129.5 ± 26.69
−60
−80
−100
−120
−140
−160
−180
−200
5928. 0
5929. 0
5929. 1
5929. 2

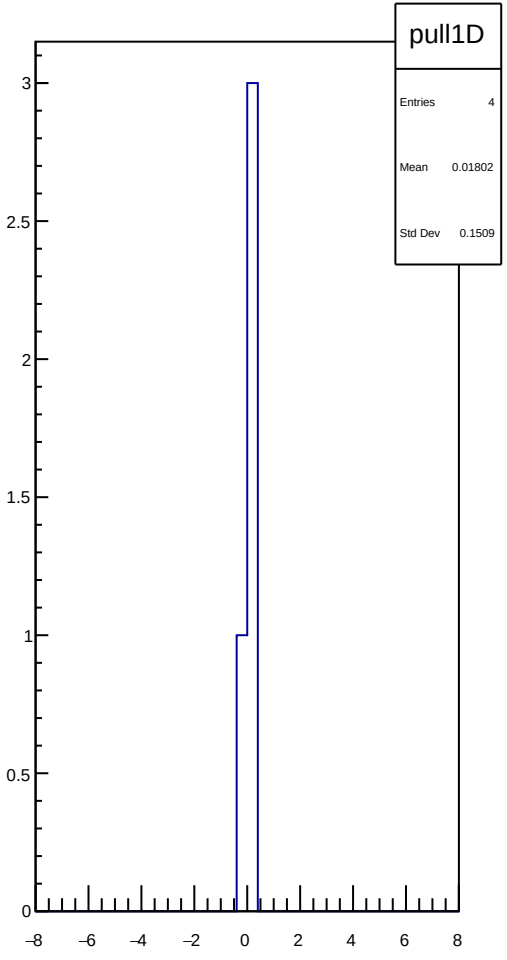

pull
Entries 4
Mean −5.91
Std Dev 7.914
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04

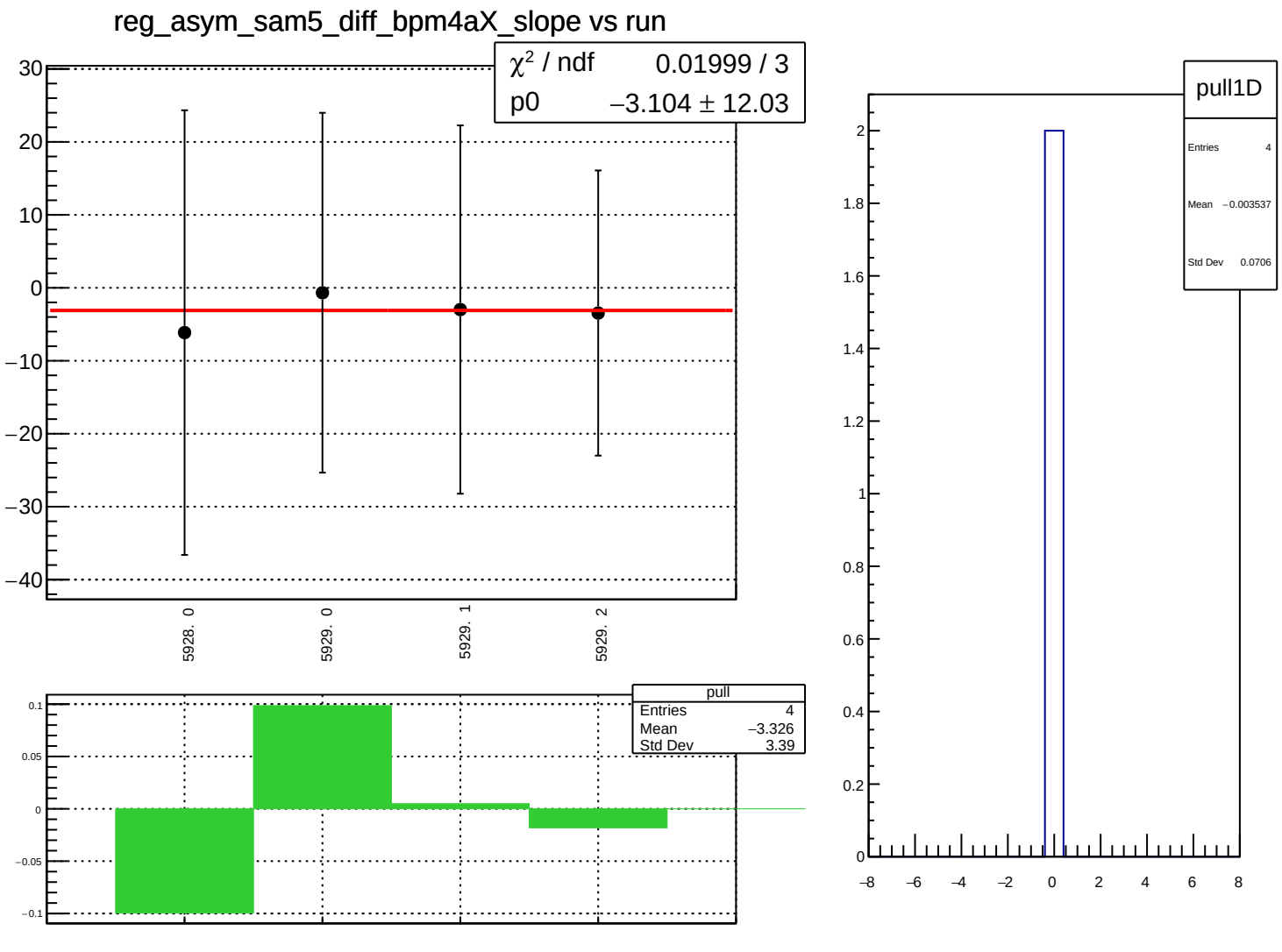

pull1D
Entries 4
Mean −0.003983
Std Dev 0.02877
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

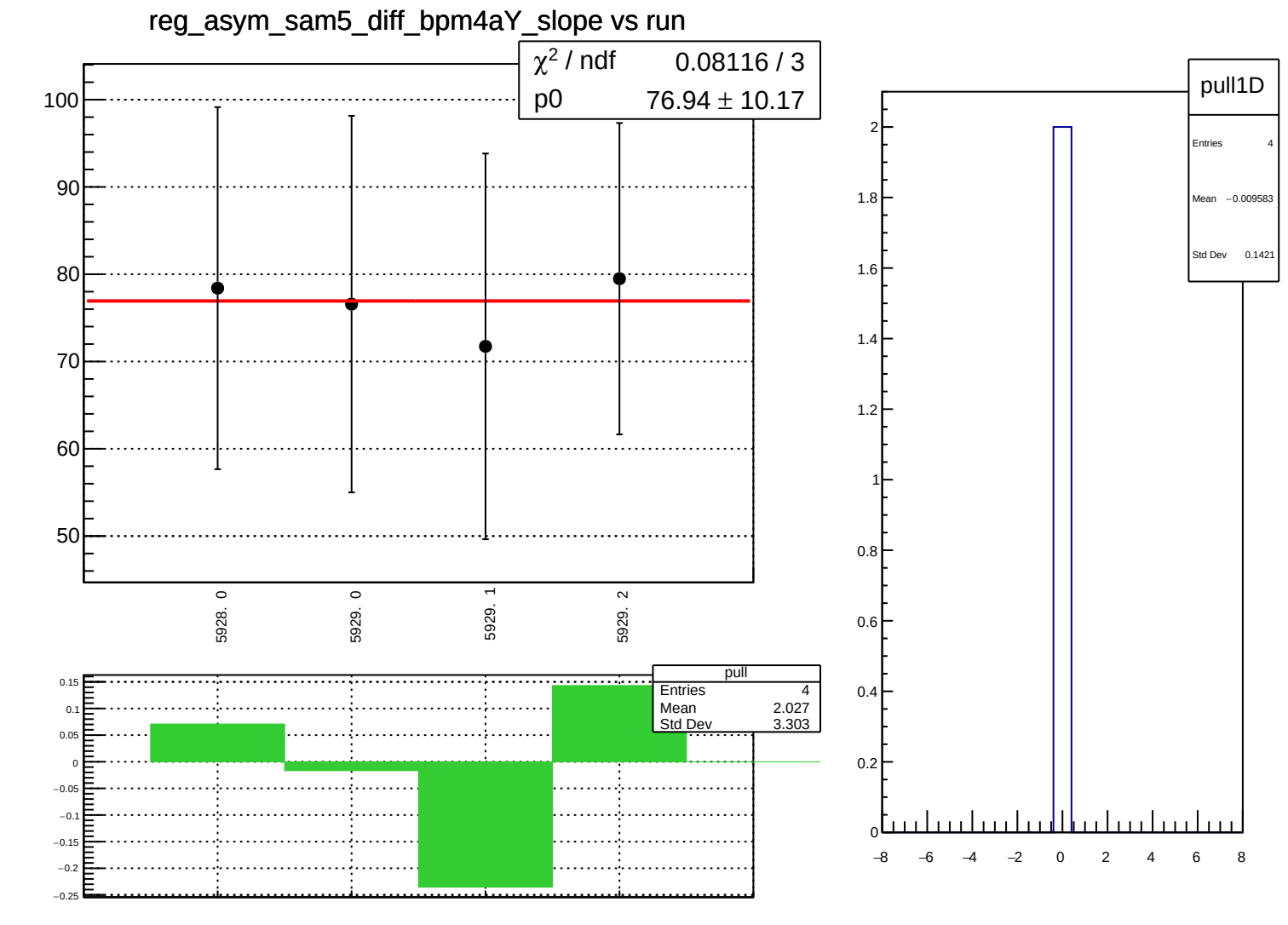

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.2923 / 3
p0 214.7 ± 19.71
280
260
240
220
200
180
160
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −645.6
Std Dev 647.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2

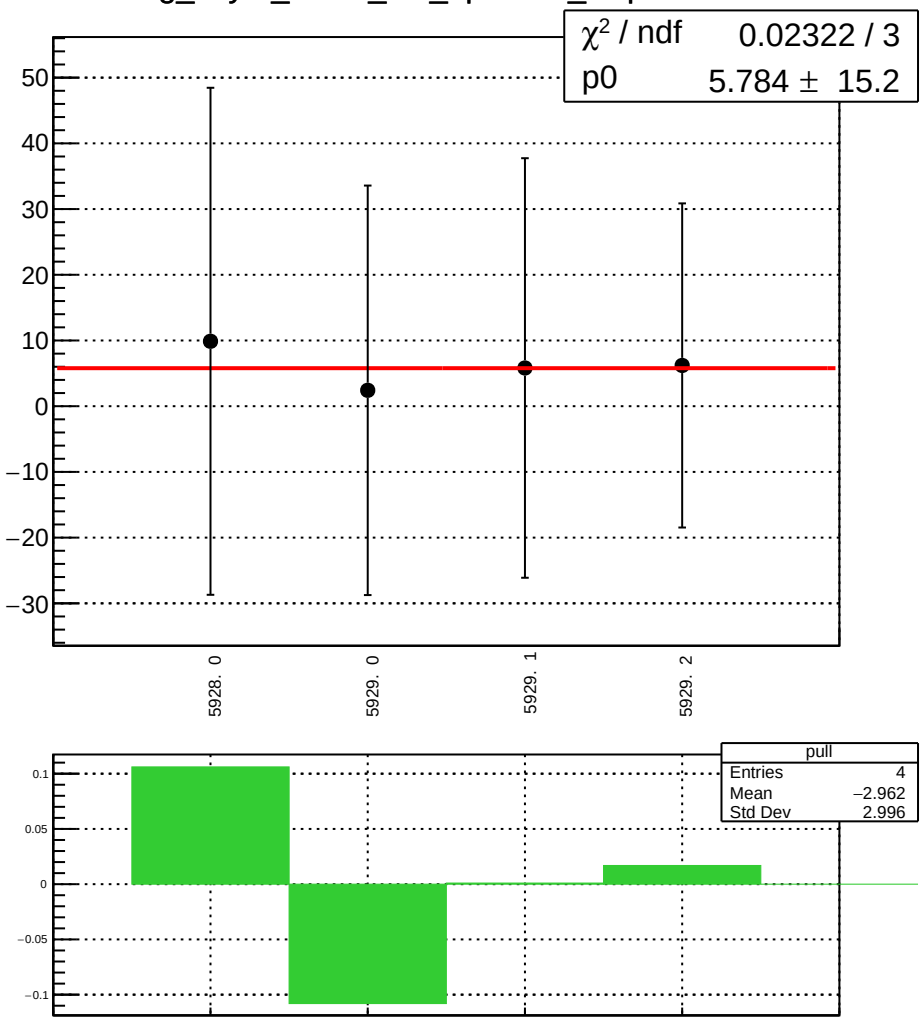

pull1D
Entries 4
Mean 0.0003772
Std Dev 0.2703
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

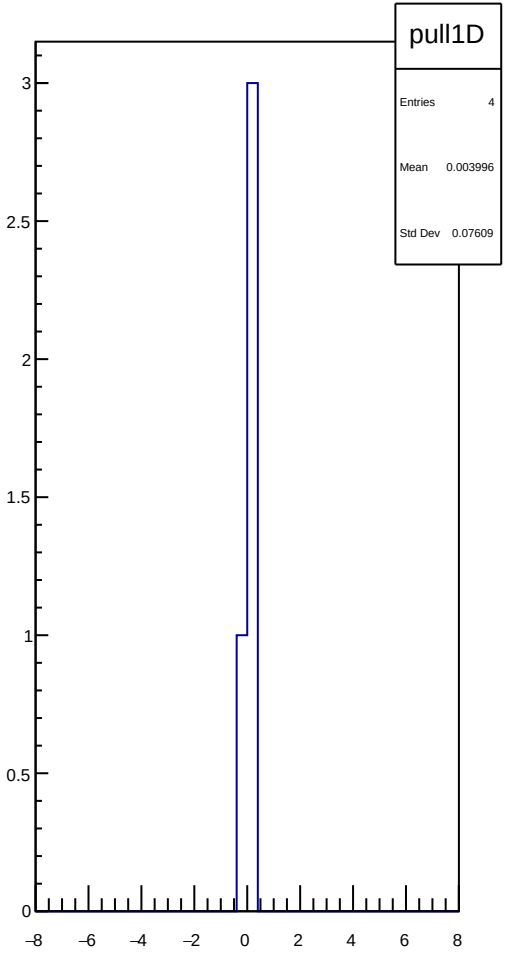

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.0924 / 3
p0 −4.196 ± 1.221
−1
−2
−3
−4
−5
−6
−7
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.058
Std Dev 9.068
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

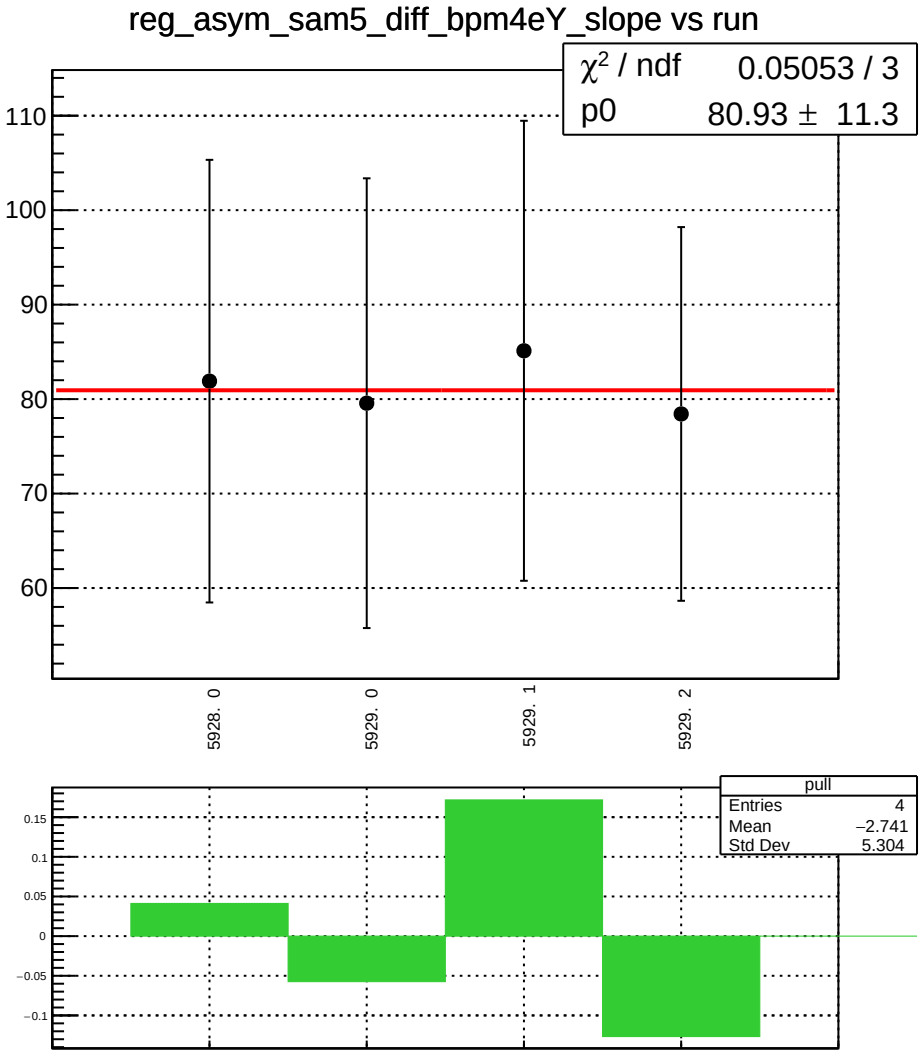

pull1D
Entries 4
Mean 0.01802
Std Dev 0.1509
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

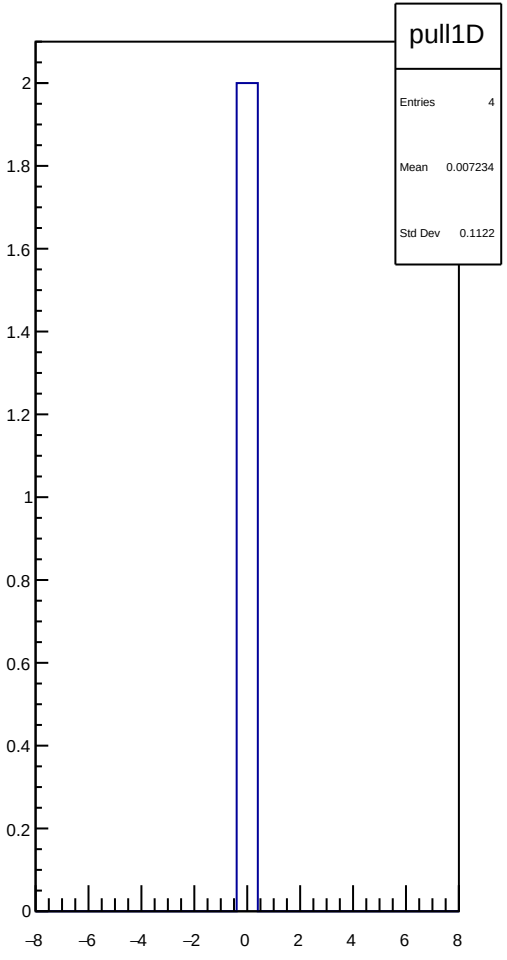

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.01999 / 3
p0 −3.104 ± 12.03
30
20
10
0
−10
−20
−30
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.326
Std Dev 3.39
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.003537
Std Dev 0.0706
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

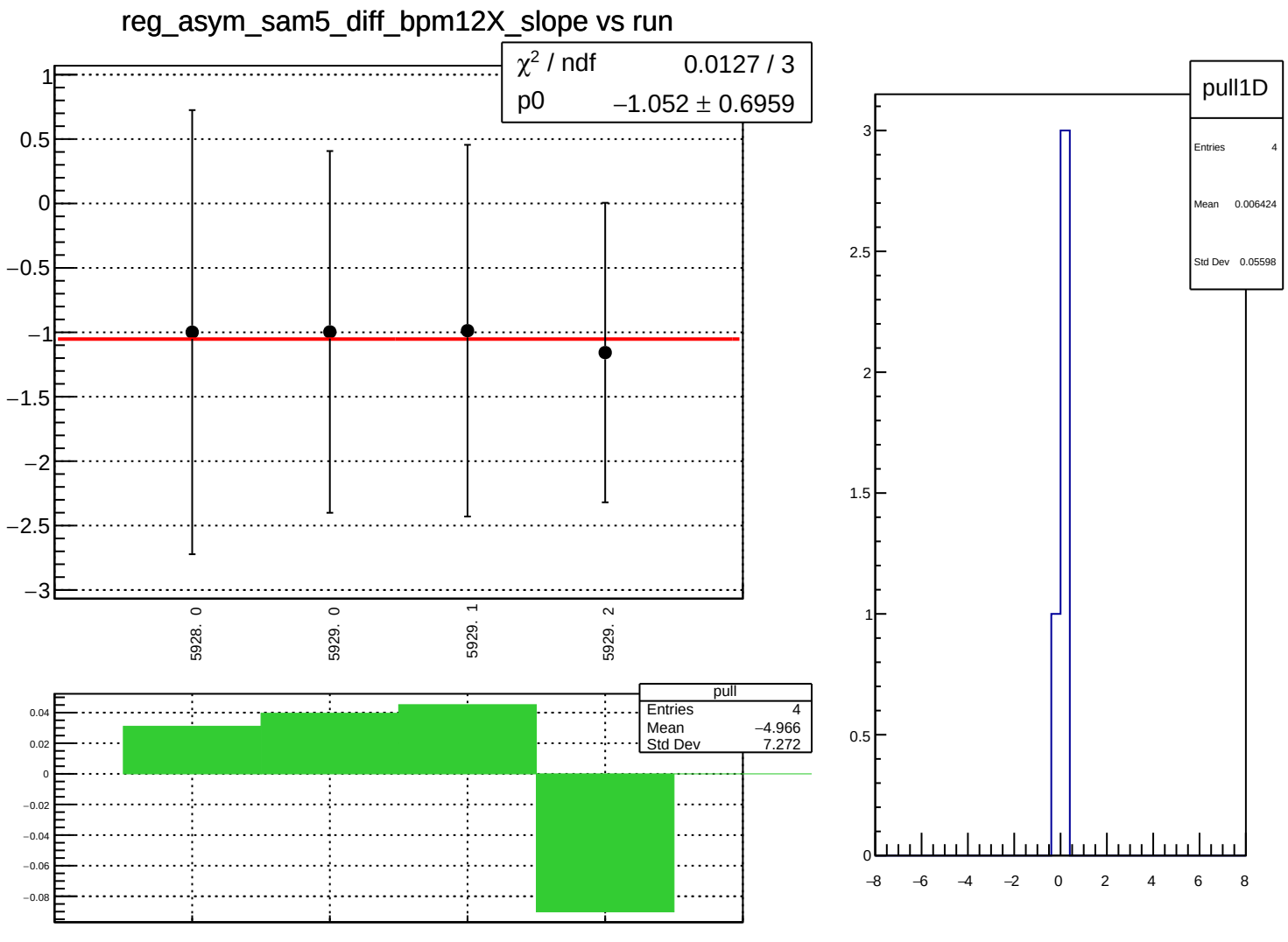

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 0.08116 / 3
p0 76.94 ± 10.17
100
90
80
70
60
50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.027
Std Dev 3.303
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 4
Mean −0.009583
Std Dev 0.1421
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

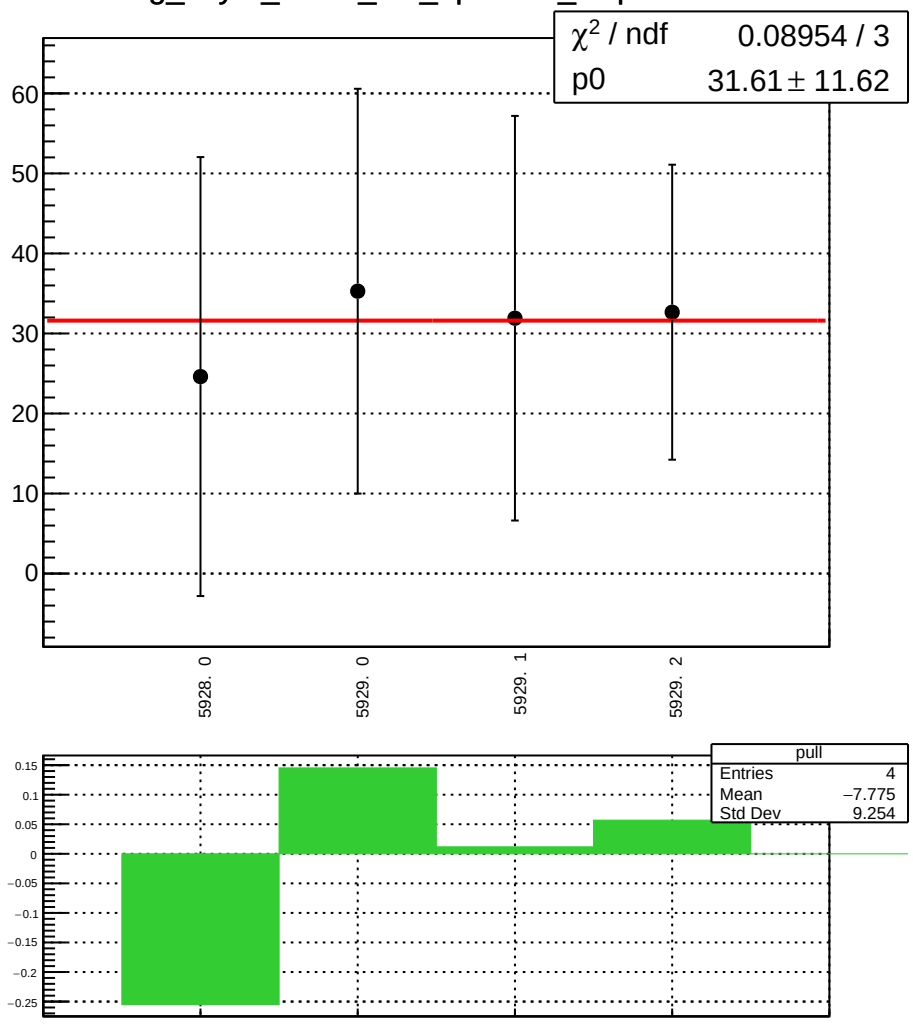

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.02322 / 3
p0 5.784 ± 15.2
50
40
30
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.962
Std Dev 2.996
0.1
0.05
0
−0.05
−0.1

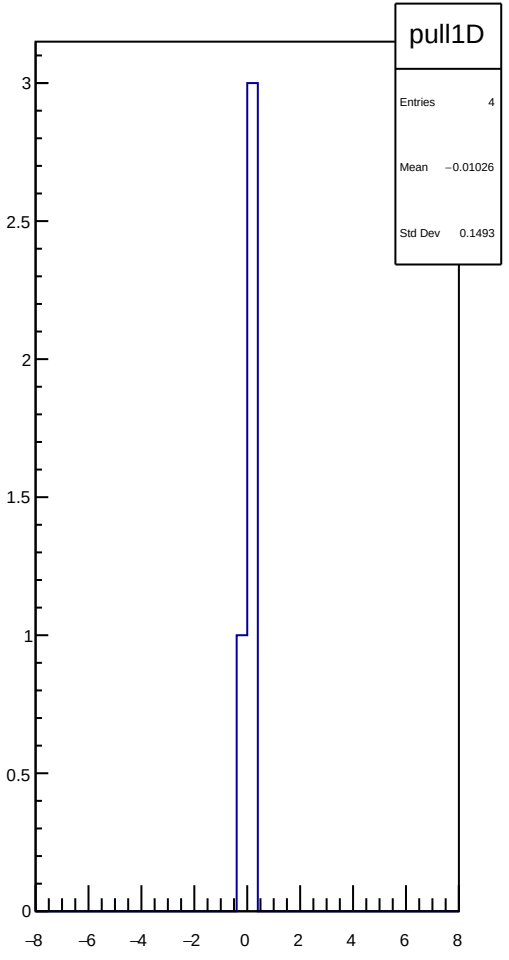

pull1D
Entries 4
Mean 0.003996
Std Dev 0.07609
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

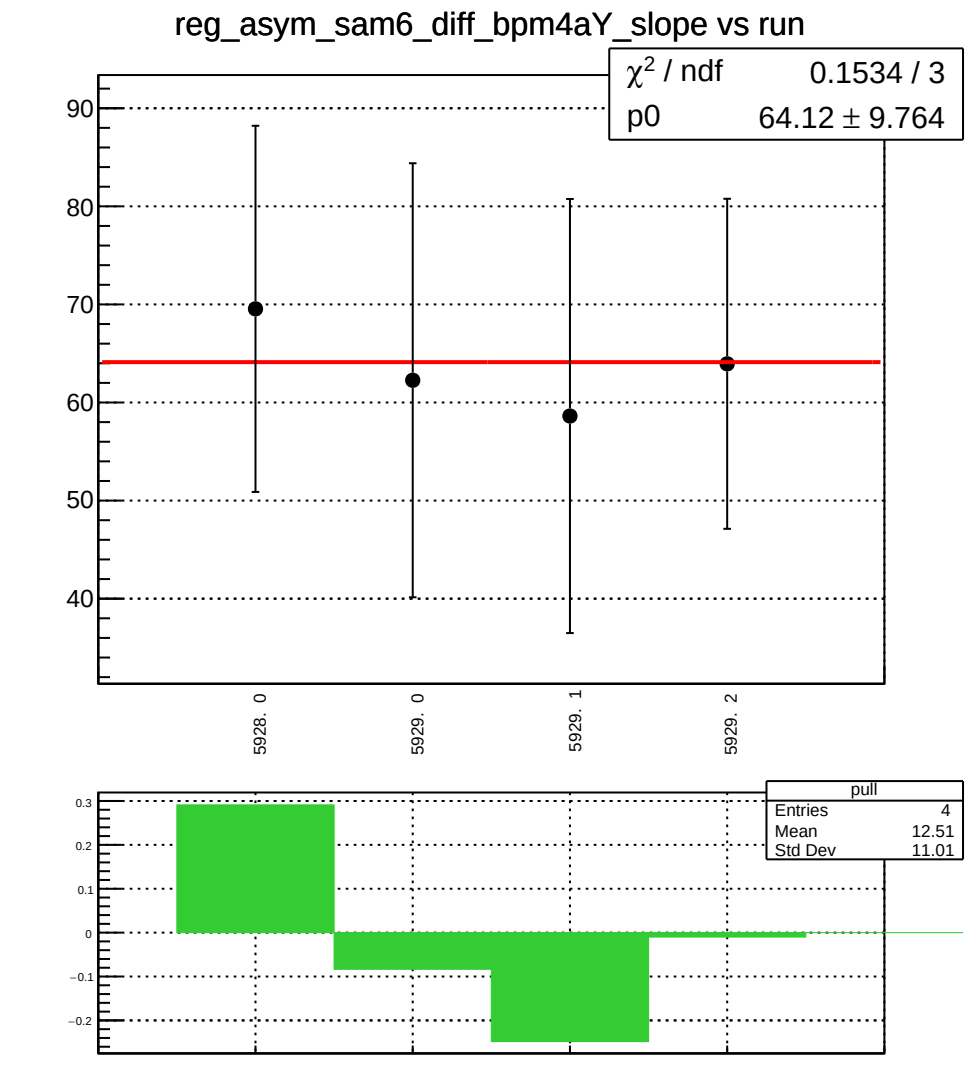

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 0.05053 / 3
p0 80.93 ± 11.3
110
100
90
80
70
60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.741
Std Dev 5.304
0.15
0.1
0.05
0
−0.05
−0.1

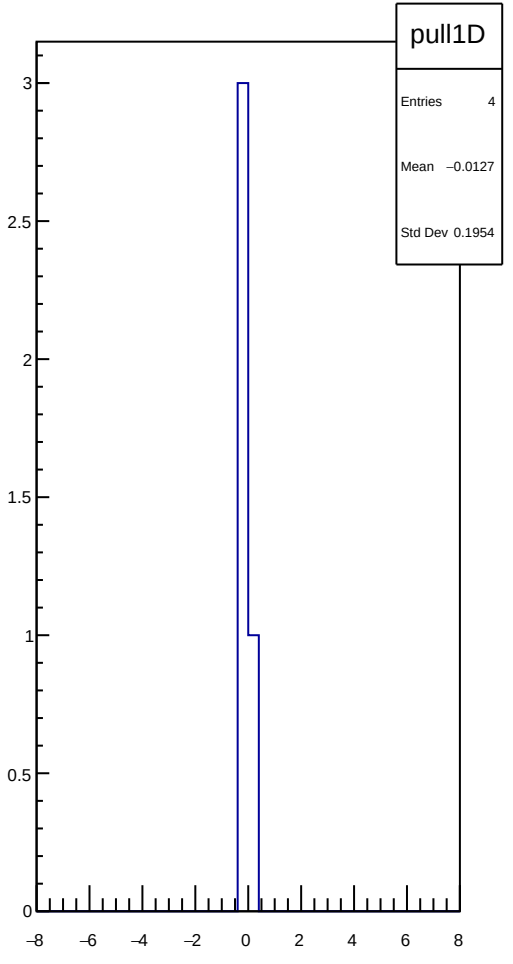

pull1D
Entries 4
Mean 0.007234
Std Dev 0.1122
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

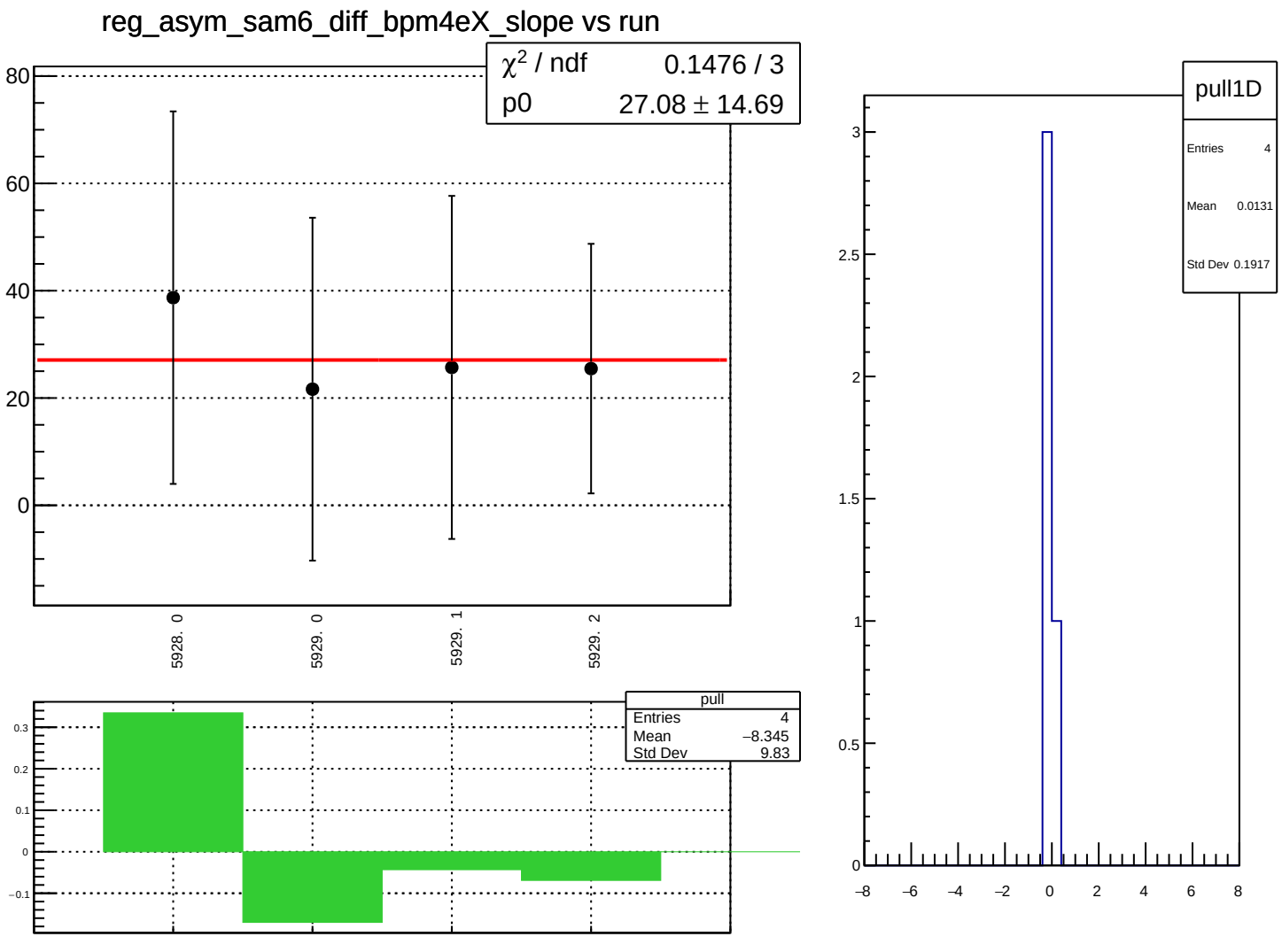

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 0.0127 / 3
p0 −1.052 ± 0.6959
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.966
Std Dev 7.272
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean 0.006424
Std Dev 0.05598
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

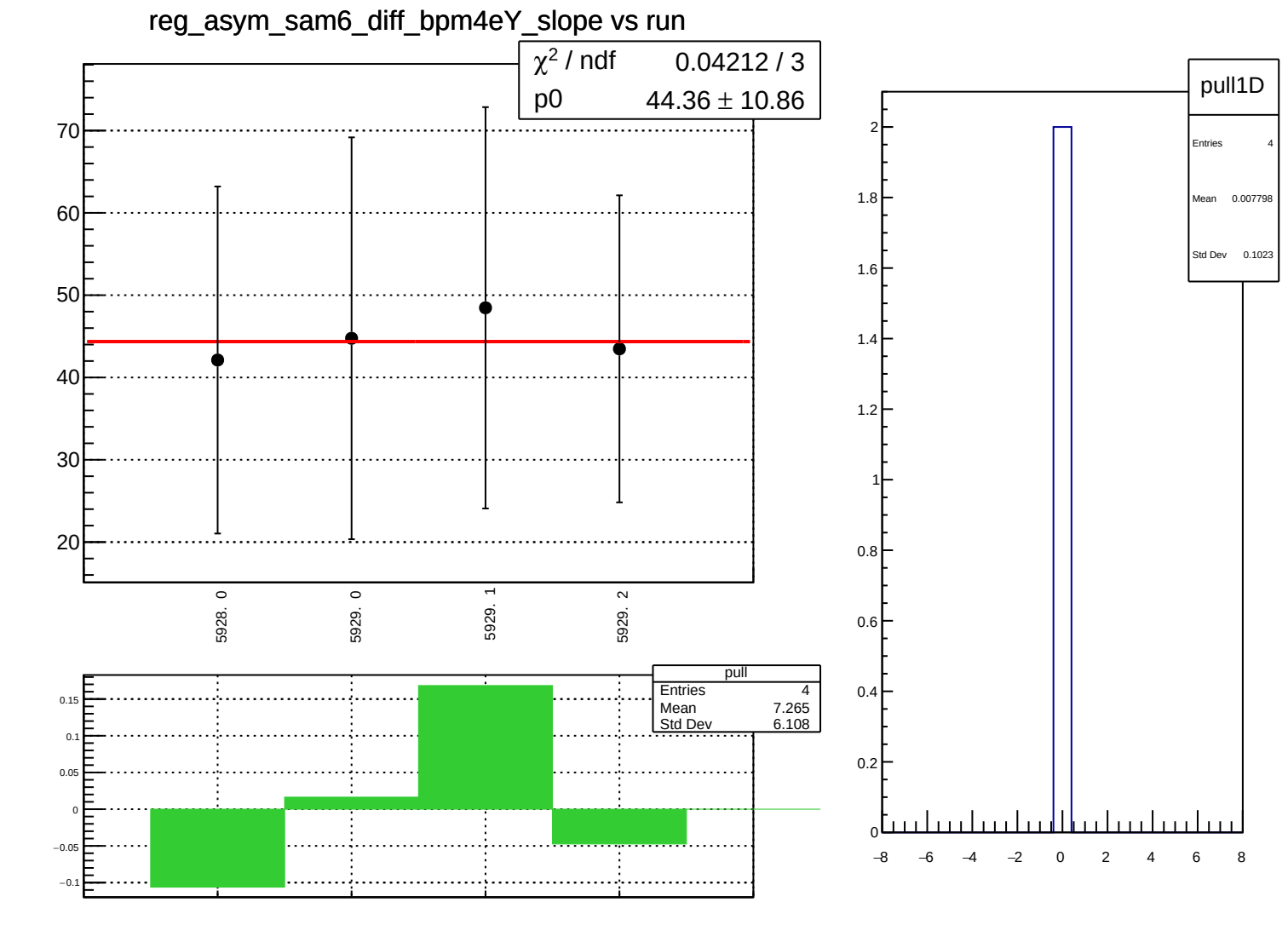

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.08954 / 3
p0 31.61 ± 11.62
60
50
40
30
20
10
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.775
Std Dev 9.254
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

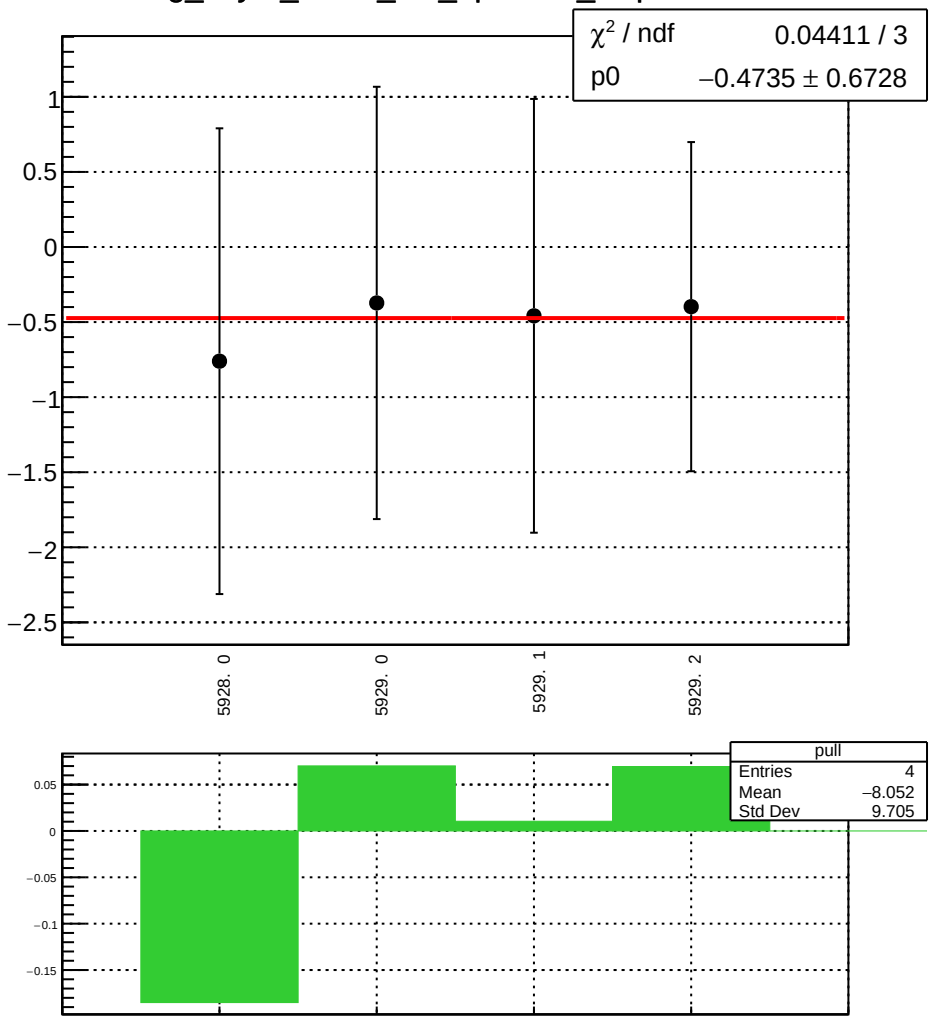

pull1D
Entries 4
Mean −0.01026
Std Dev 0.1493
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

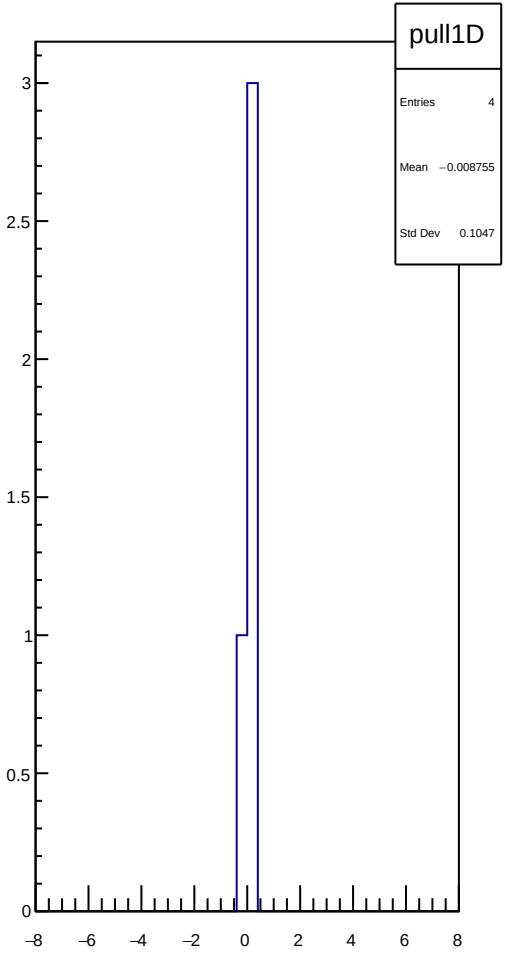

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 0.1534 / 3
p0 64.12 ± 9.764
90
80
70
60
50
40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 12.51
Std Dev 11.01
0.3
0.2
0.1
0
−0.1
−0.2

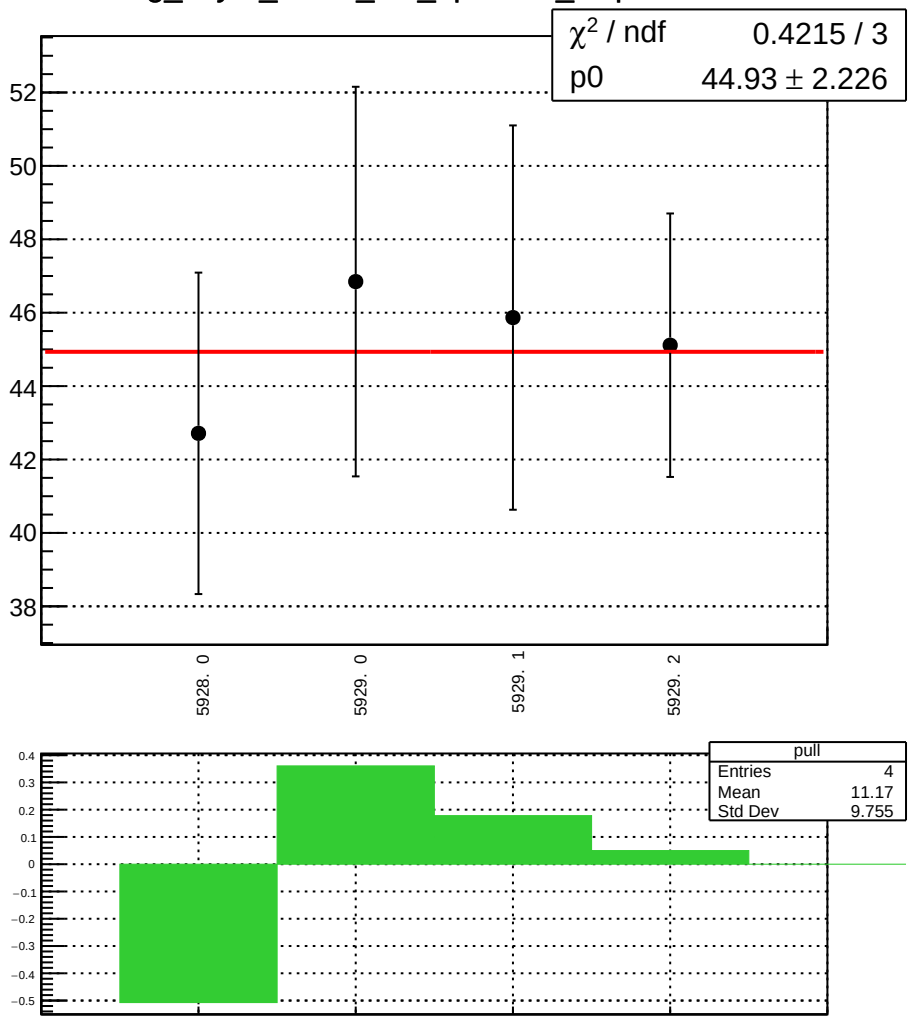

pull1D
Entries 4
Mean −0.0127
Std Dev 0.1954
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

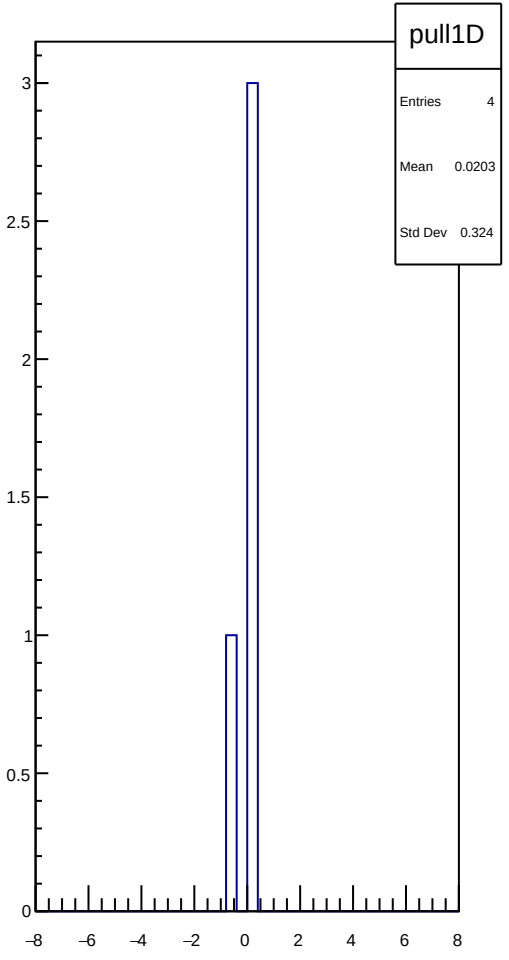

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.1476 / 3
p0 27.08 ± 14.69
80
60
40
20
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −8.345
Std Dev 9.83
0.3
0.2
0.1
0
−0.1
pull1D
Entries 4
Mean 0.0131
Std Dev 0.1917
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

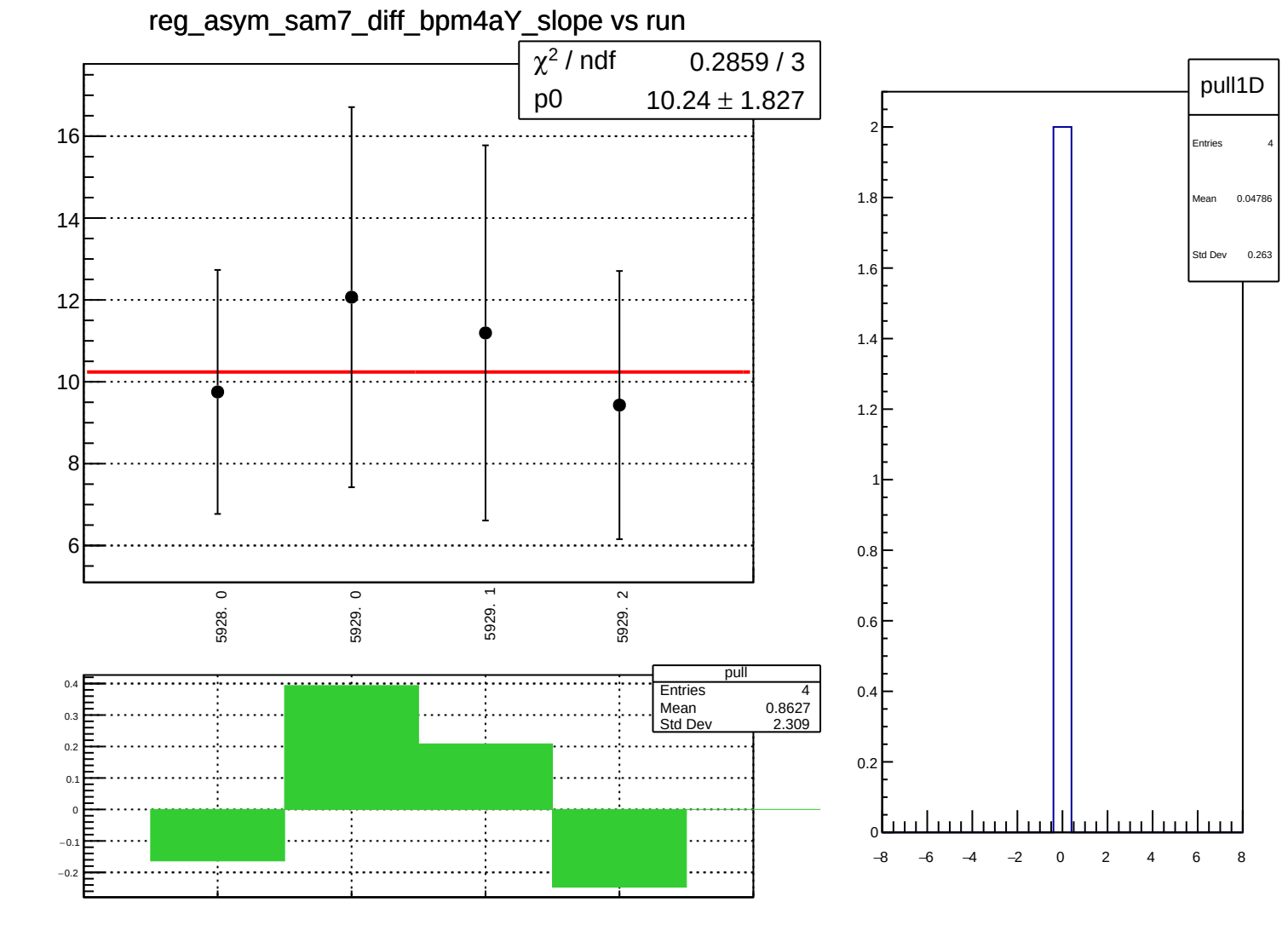

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 0.04212 / 3
p0 44.36 ± 10.86
70
60
50
40
30
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.265
Std Dev 6.108
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.007798
Std Dev 0.1023
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

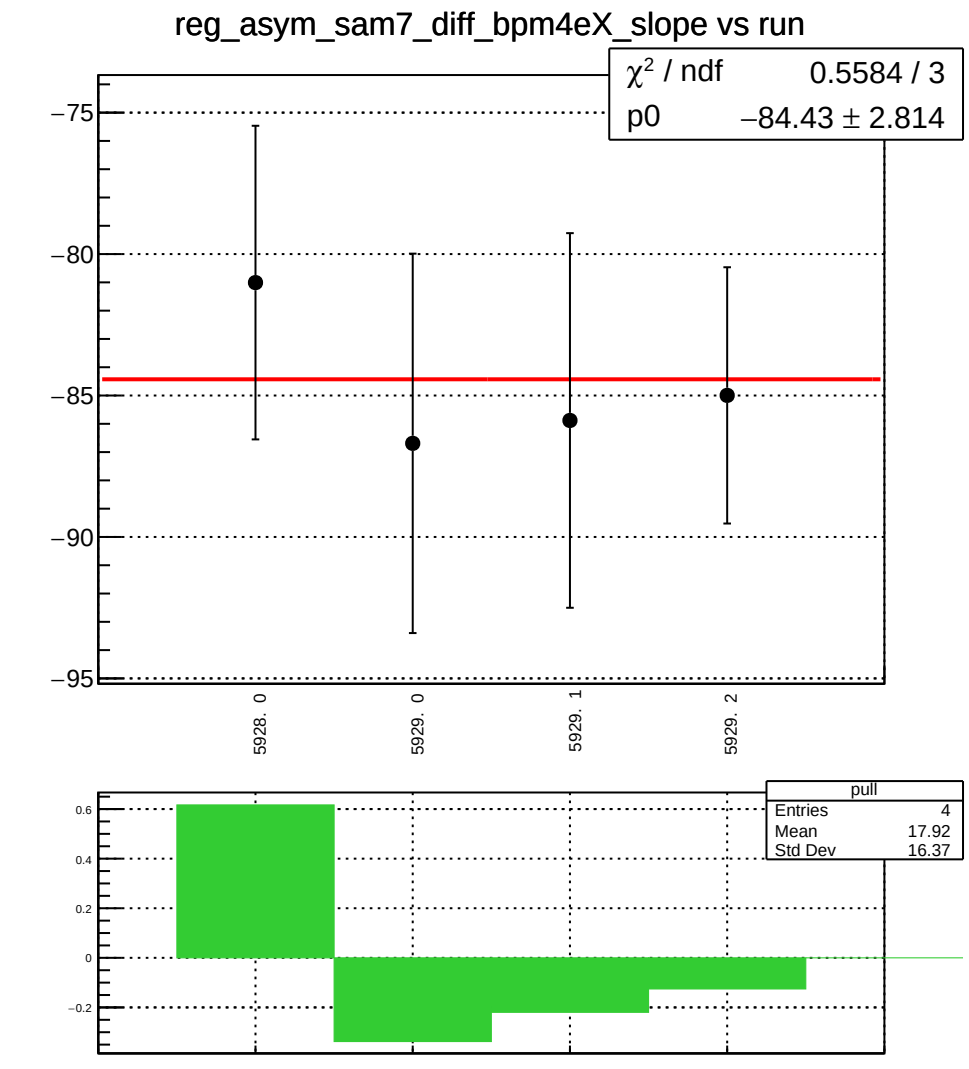

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.04411 / 3
p0 −0.4735 ± 0.6728
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −8.052
Std Dev 9.705
0.05
0
−0.05
−0.1
−0.15

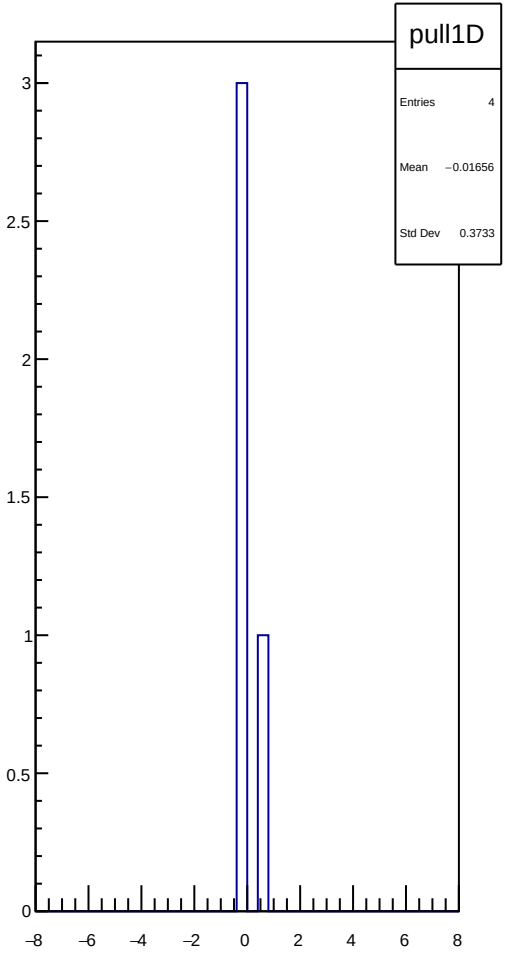

pull1D
Entries 4
Mean −0.008755
Std Dev 0.1047
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

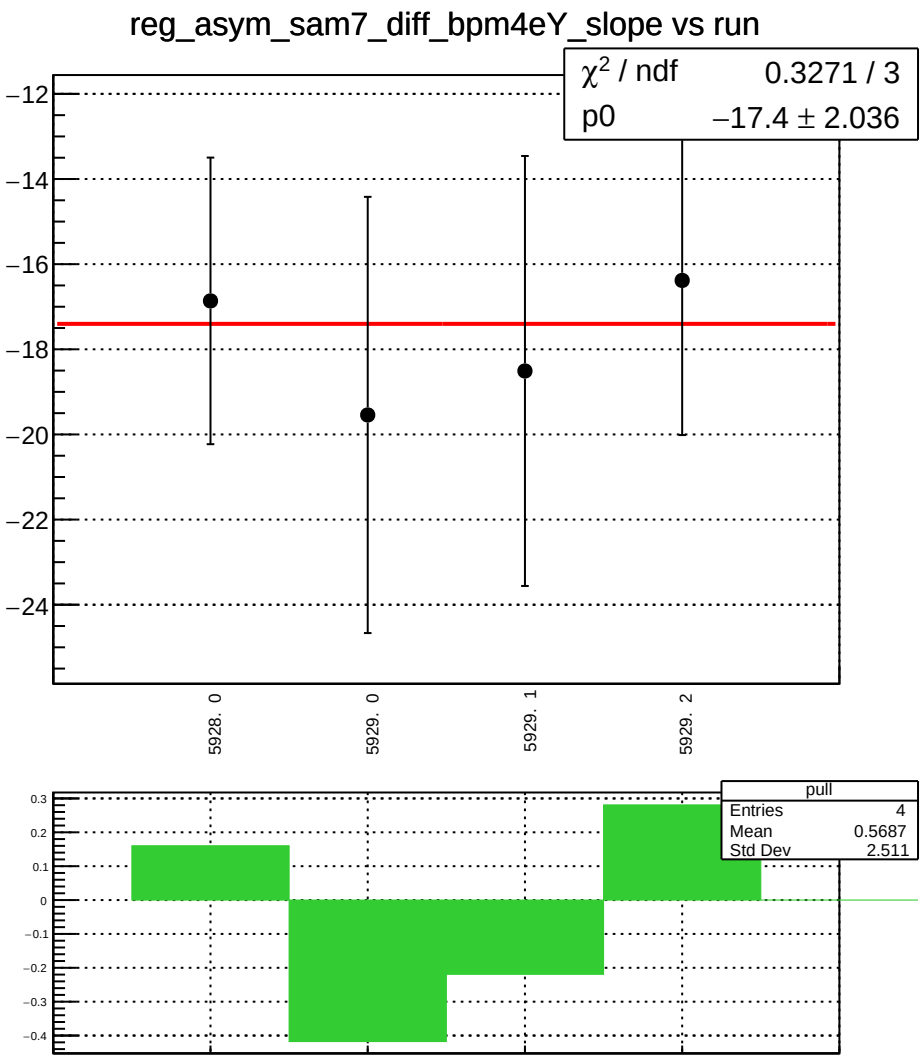

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 0.4215 / 3
p0 44.93 ± 2.226
52
50
48
46
44
42
40
38
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.17
Std Dev 9.755
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

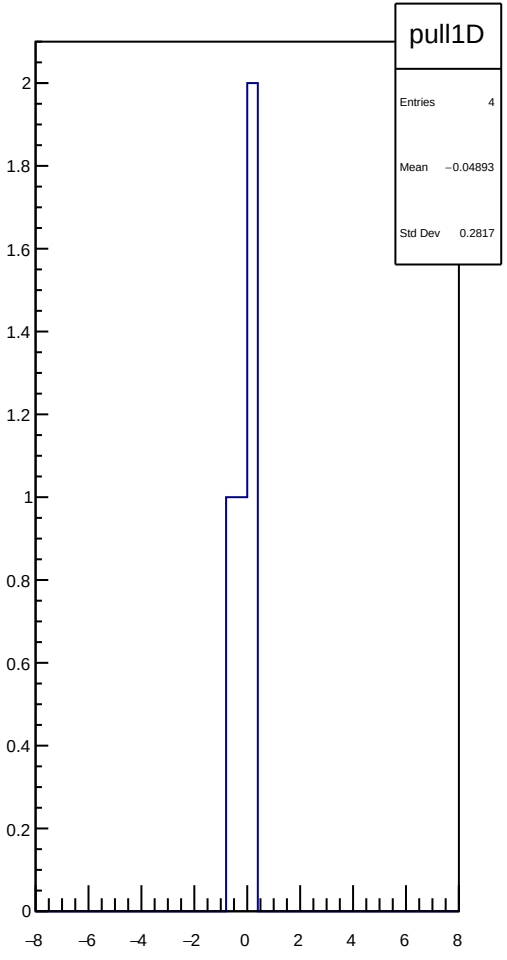

pull1D
Entries 4
Mean 0.0203
Std Dev 0.324
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

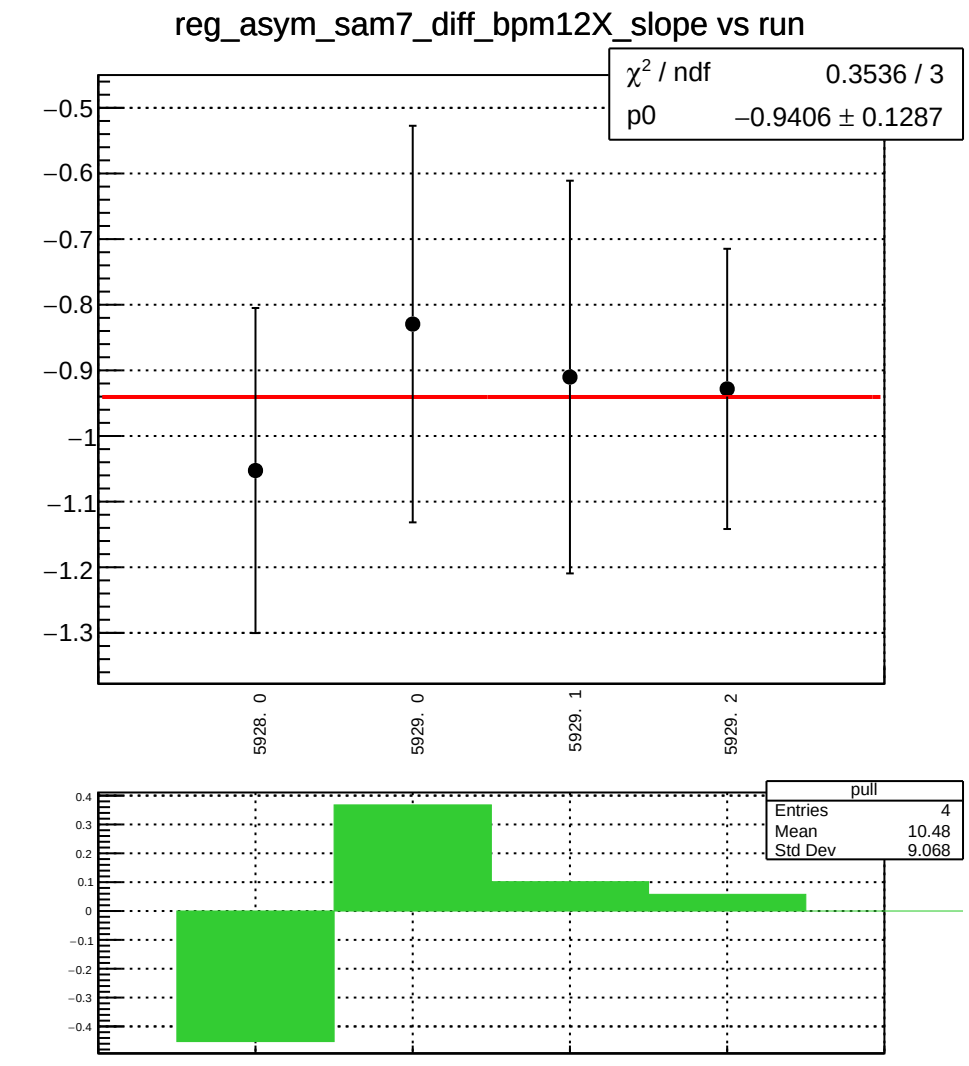

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.2859 / 3
p0 10.24 ± 1.827
16
14
12
10
8
6
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.8627
Std Dev 2.309
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.04786
Std Dev 0.263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

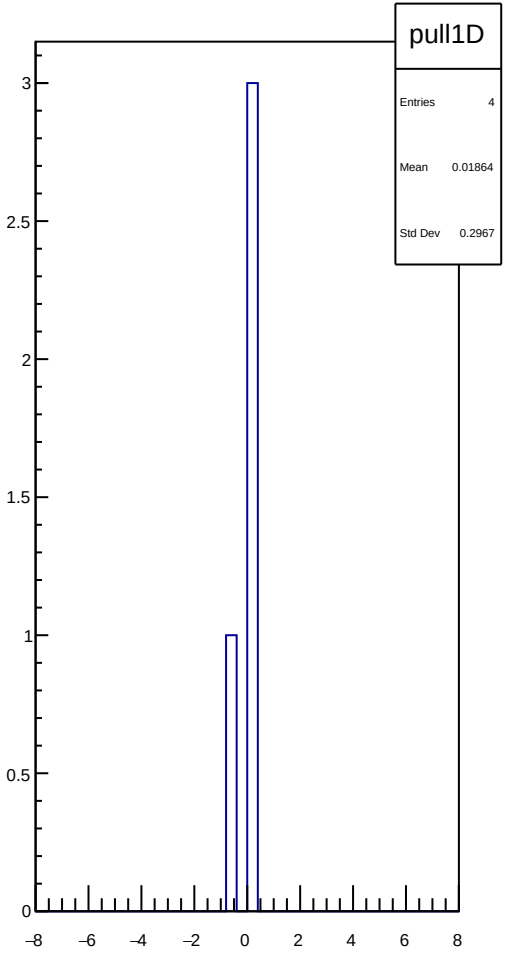

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 0.5584 / 3
p0 −84.43 ± 2.814
−75
−80
−85
−90
−95
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 17.92
Std Dev 16.37
0.6
0.4
0.2
0
−0.2

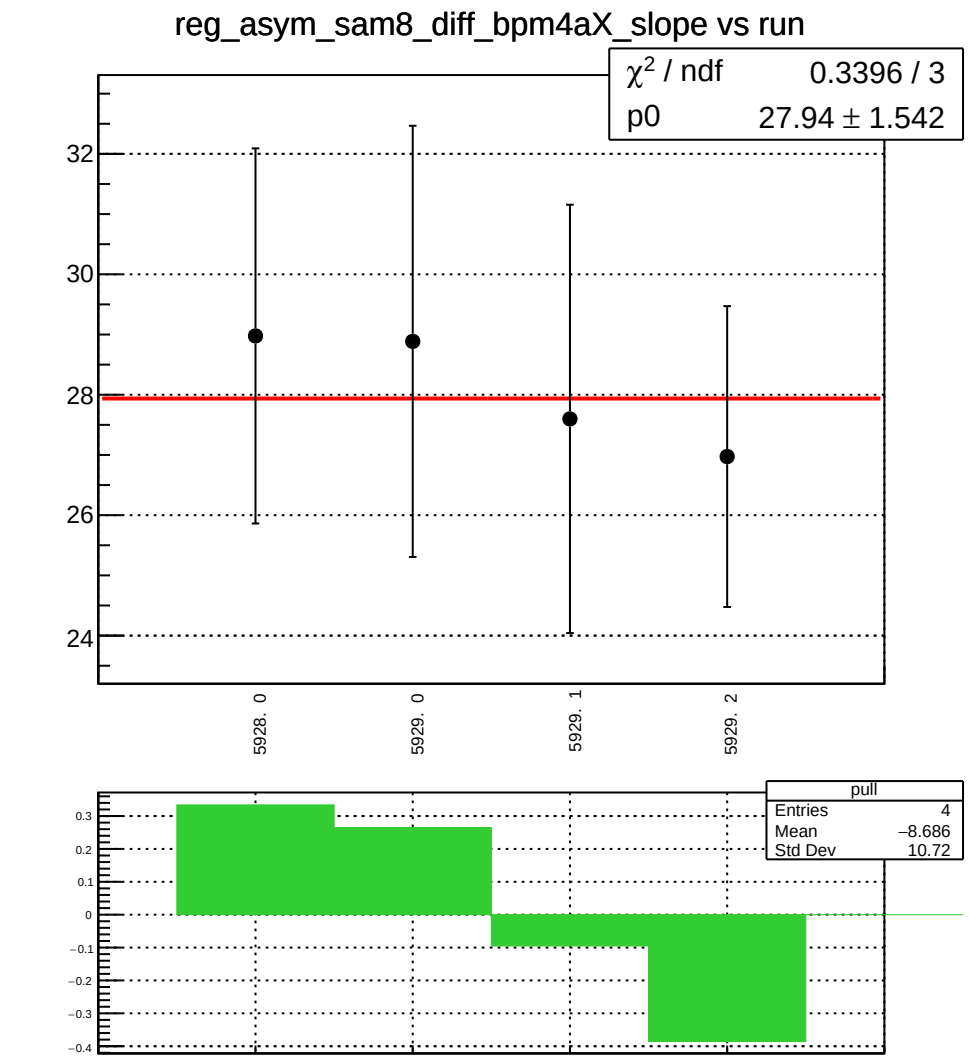

pull1D
Entries 4
Mean −0.01656
Std Dev 0.3733
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

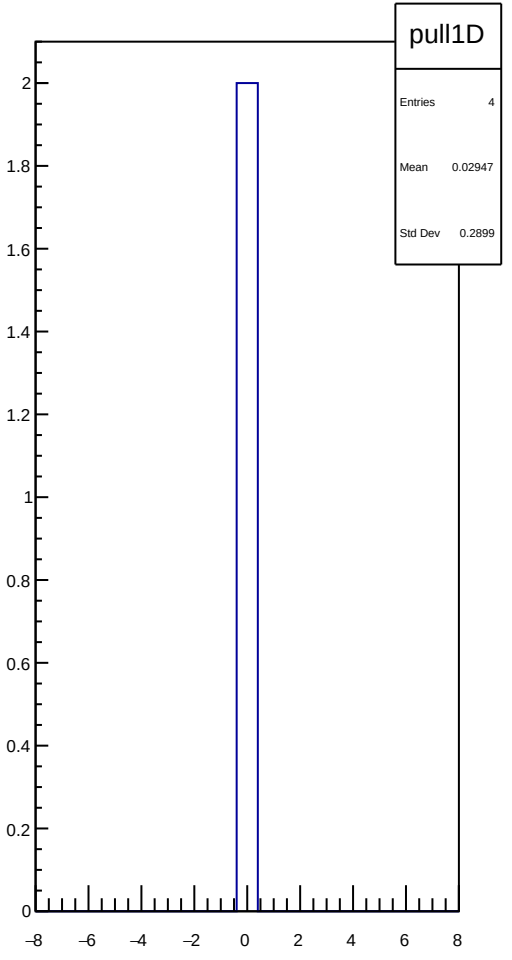

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.3271 / 3
p0 −17.4 ± 2.036
−12
−14
−16
−18
−20
−22
−24
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.5687
Std Dev 2.511
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

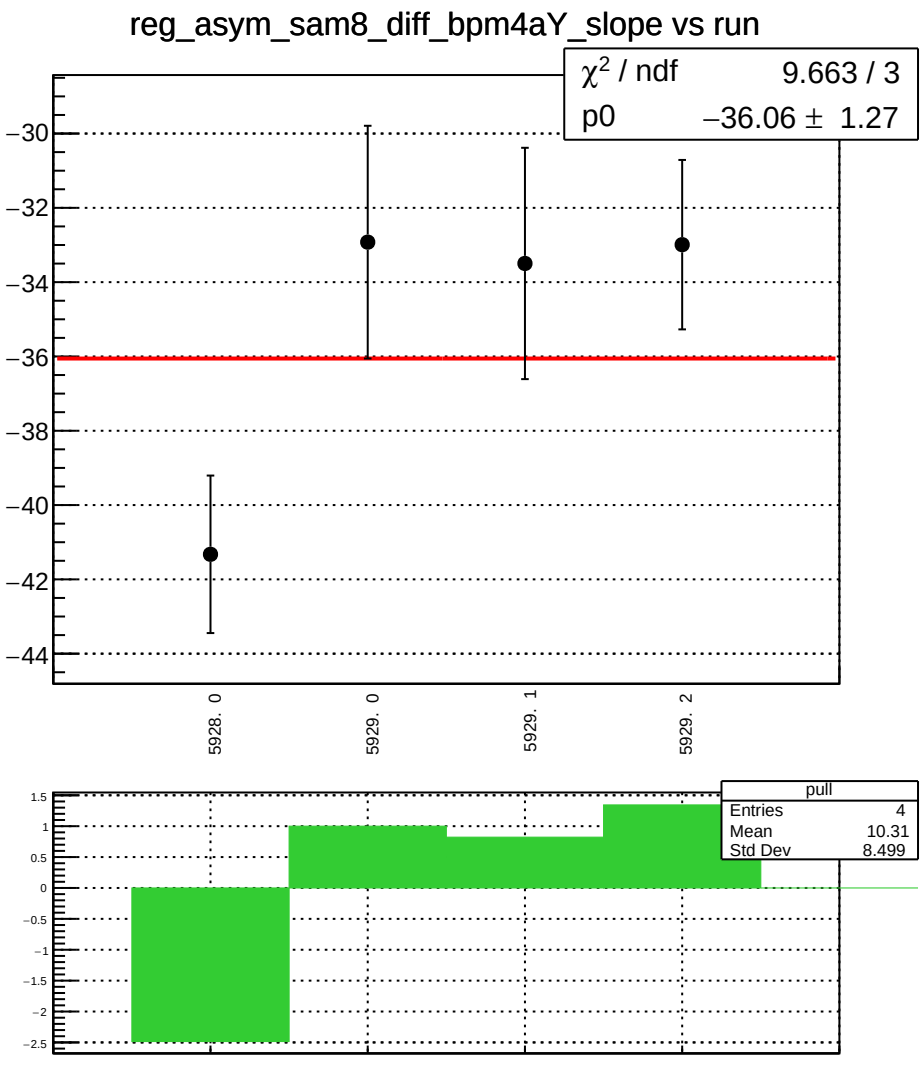

pull1D
Entries 4
Mean −0.04893
Std Dev 0.2817
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

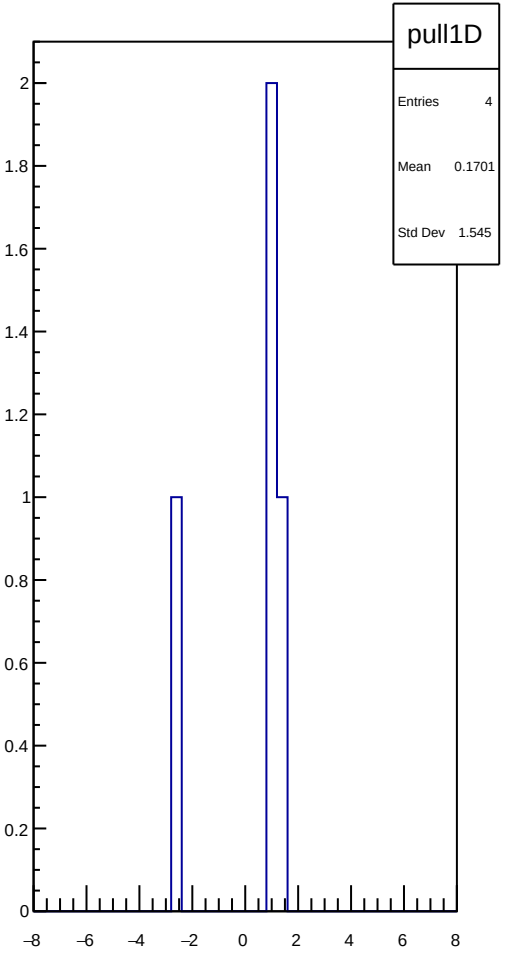

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 0.3536 / 3
p0 −0.9406 ± 0.1287
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.48
Std Dev 9.068
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

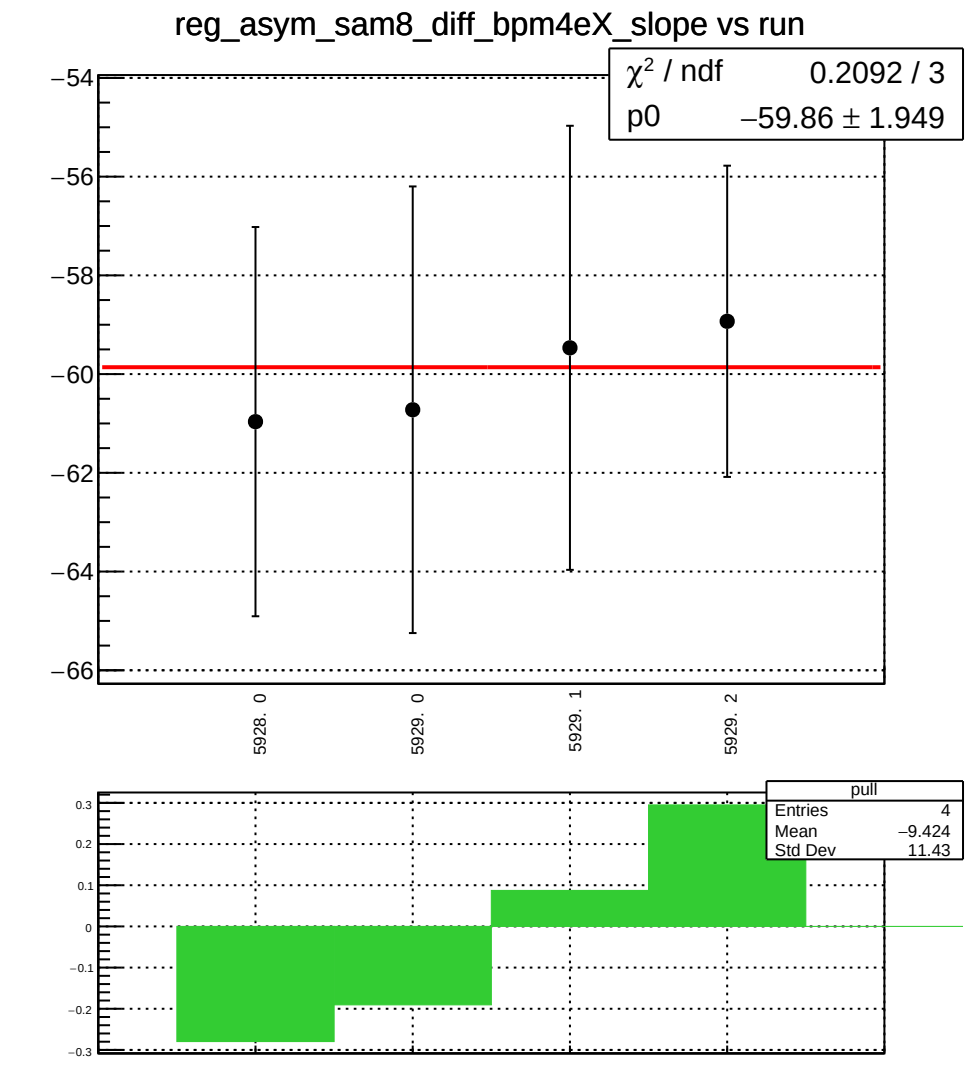

pull1D
Entries 4
Mean 0.01864
Std Dev 0.2967
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

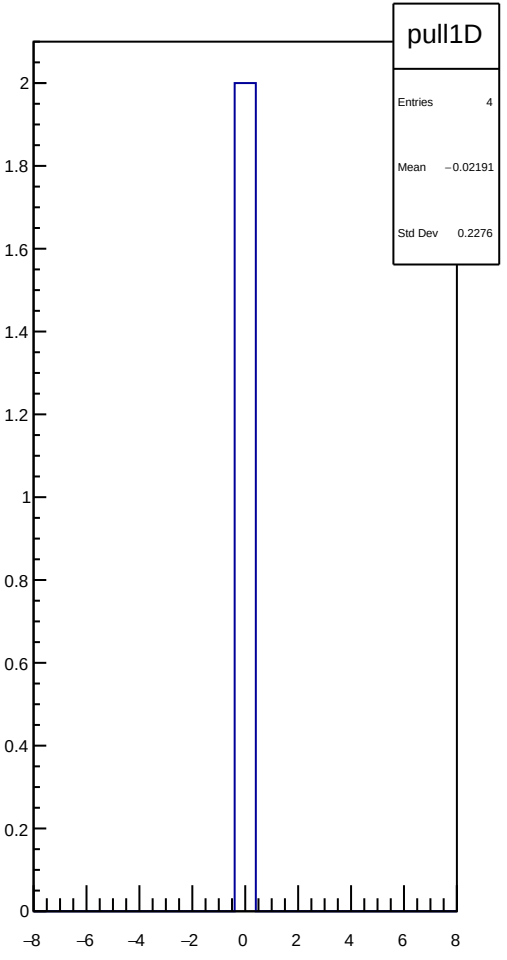

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 0.3396 / 3
p0 27.94 ± 1.542
32
30
28
26
24
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −8.686
Std Dev 10.72
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

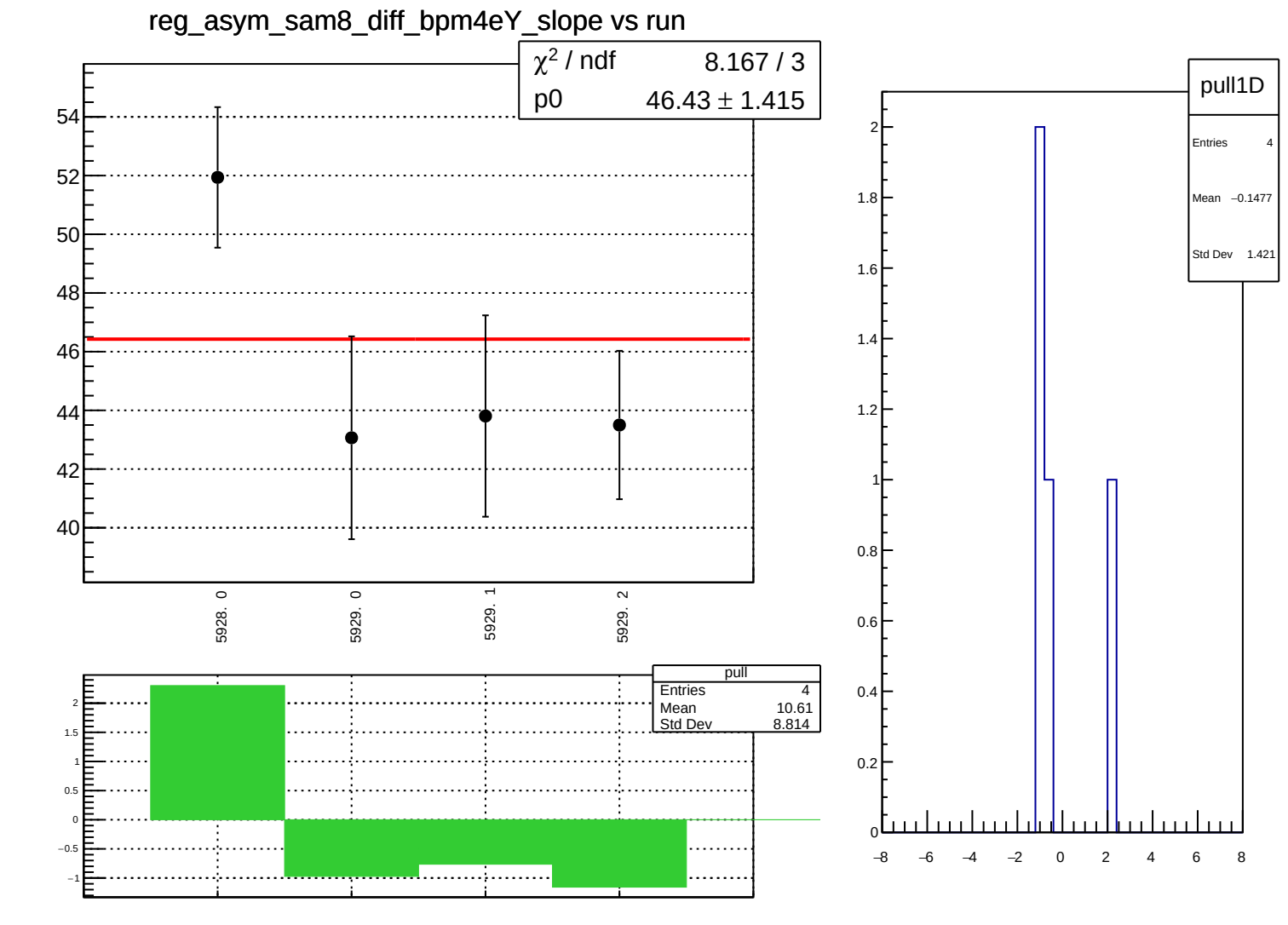

pull1D
Entries 4
Mean 0.02947
Std Dev 0.2899
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

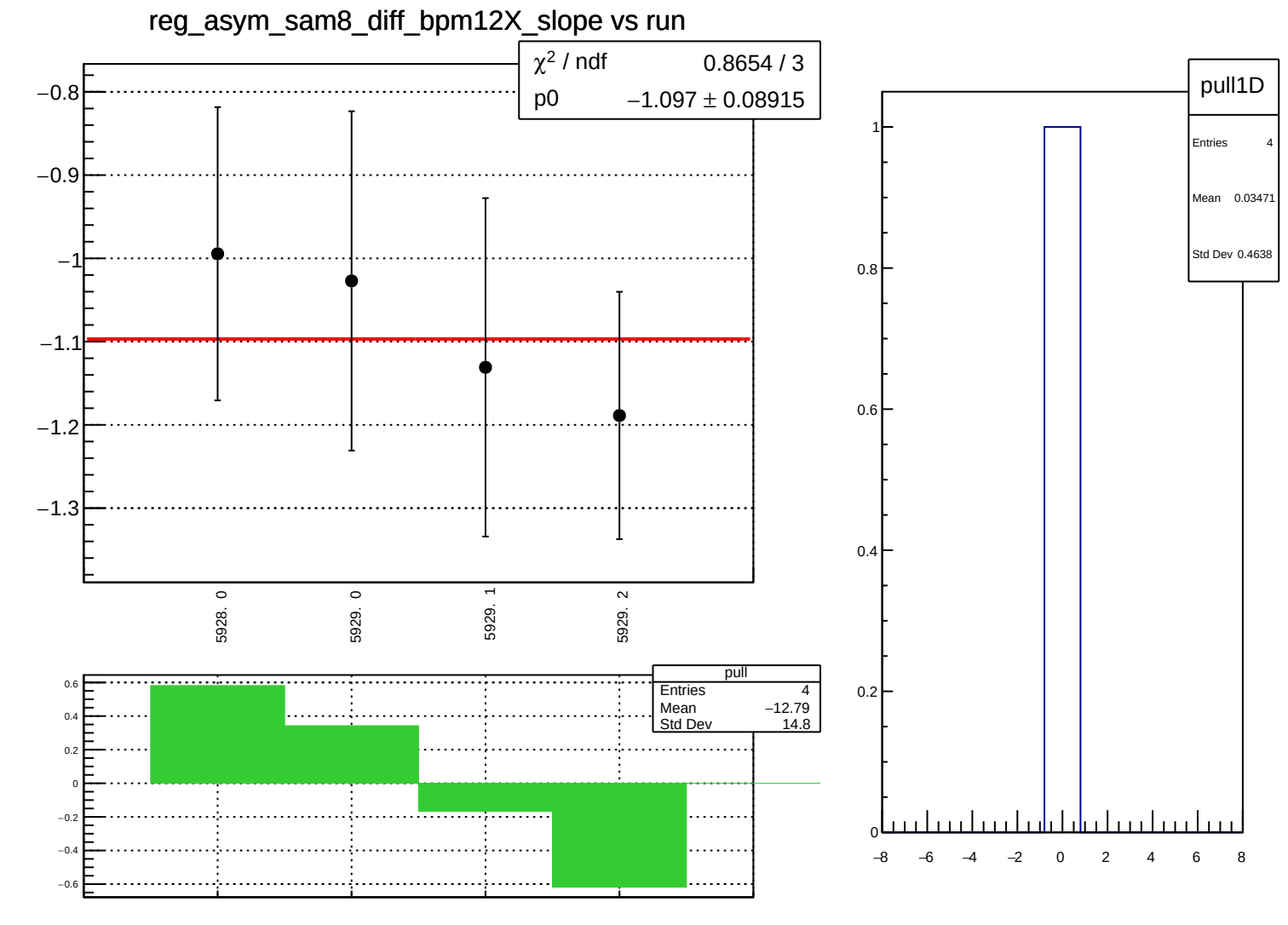

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.663 / 3
p0 −36.06 ± 1.27
−30
−32
−34
−36
−38
−40
−42
−44
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.31
Std Dev 8.499
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

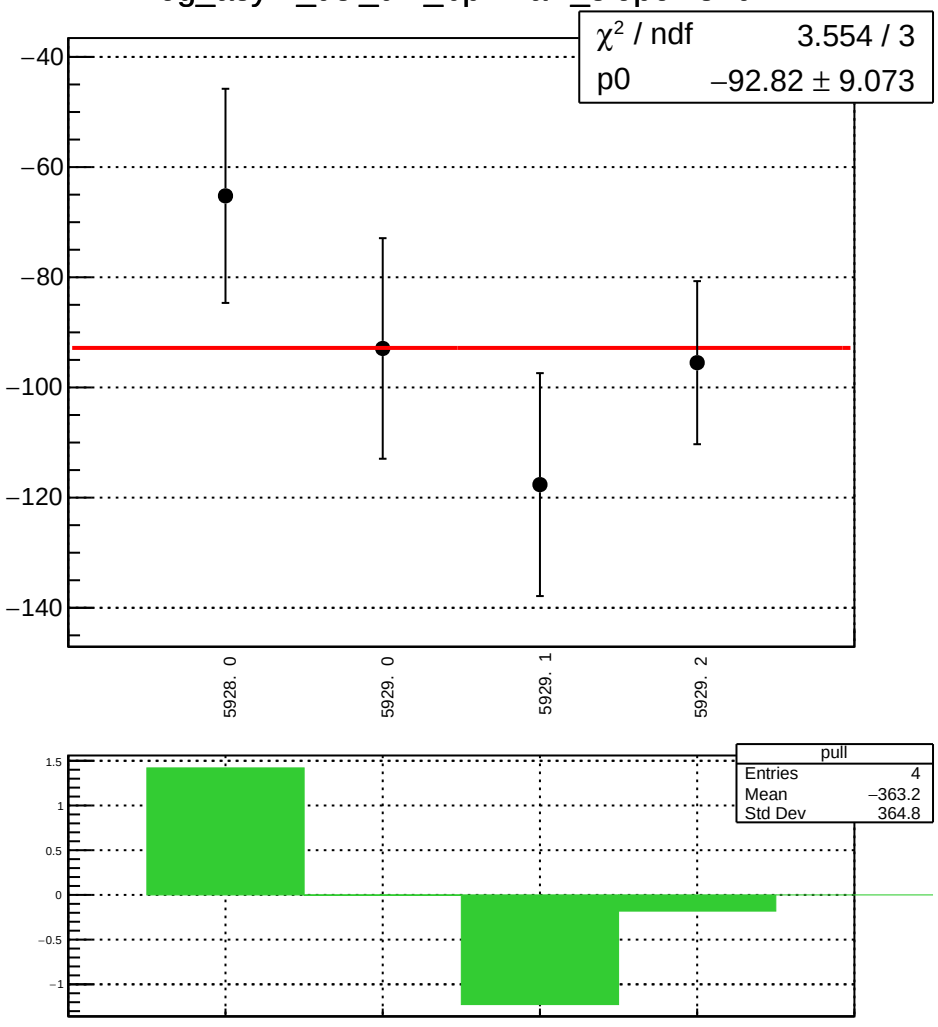

pull1D
Entries 4
Mean 0.1701
Std Dev 1.545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

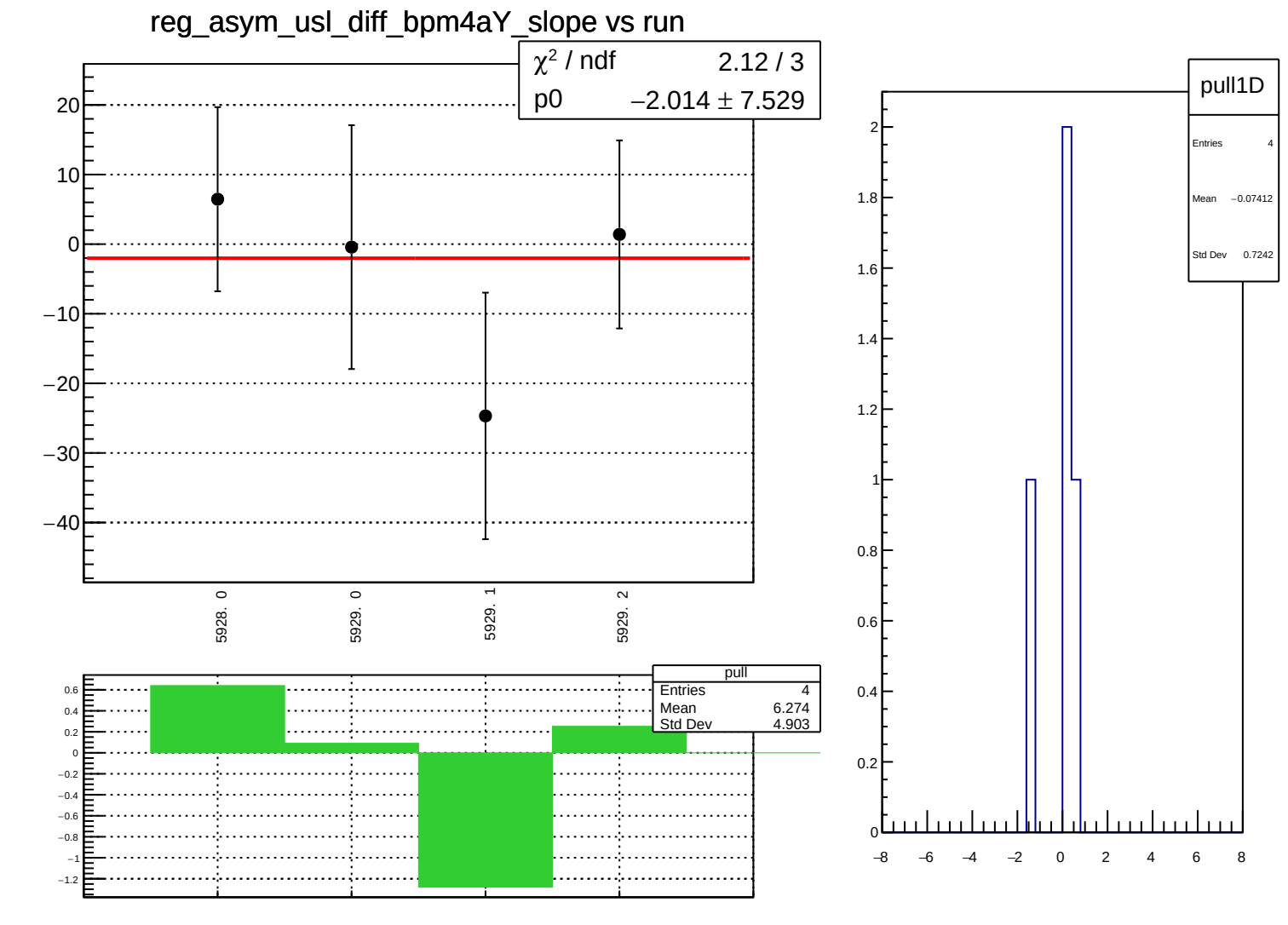

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 0.2092 / 3
p0 −59.86 ± 1.949
−54
−56
−58
−60
−62
−64
−66
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.424
Std Dev 11.43
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

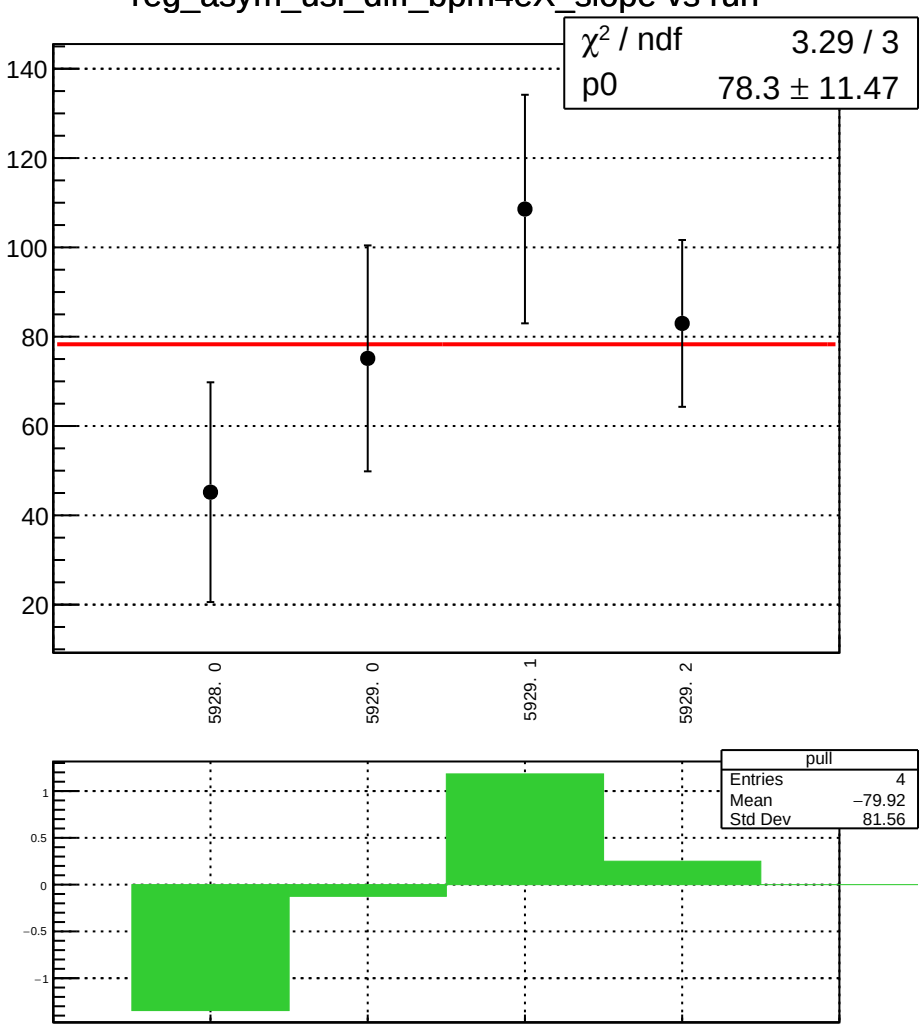

pull1D
Entries 4
Mean −0.02191
Std Dev 0.2276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

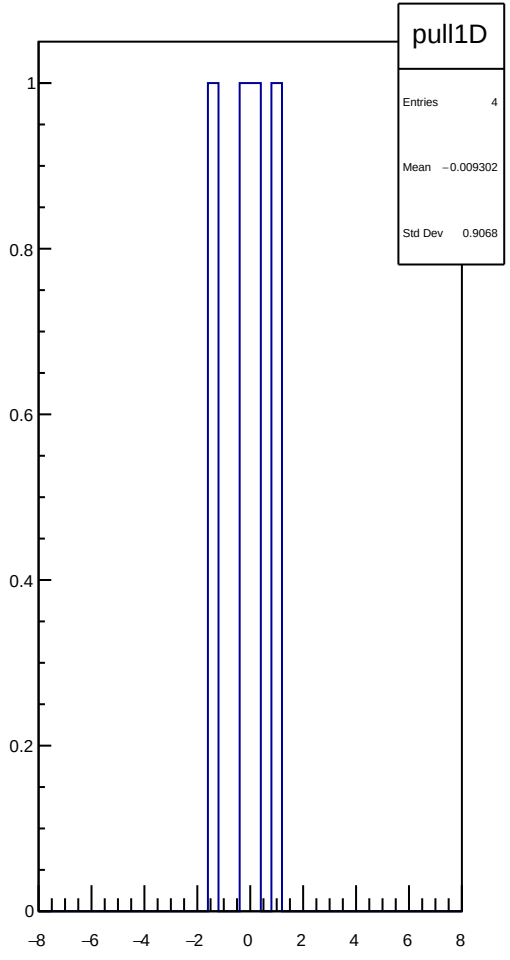

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.167 / 3
p0 46.43 ± 1.415
54
52
50
48
46
44
42
40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.61
Std Dev 8.814
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.1477
Std Dev 1.421
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

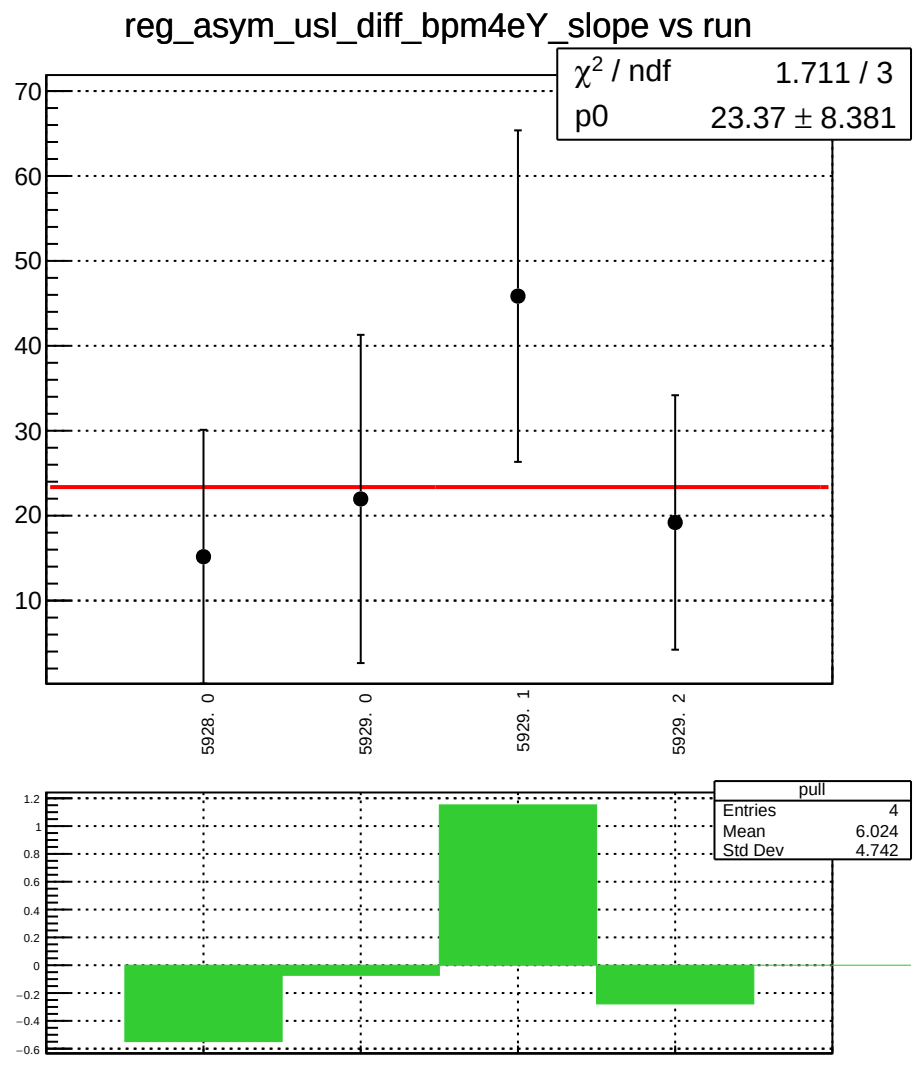

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 0.8654 / 3
p0 −1.097 ± 0.08915
−0.8
−0.9
−1
−1.1
−1.2
−1.3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.79
Std Dev 14.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.03471
Std Dev 0.4638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

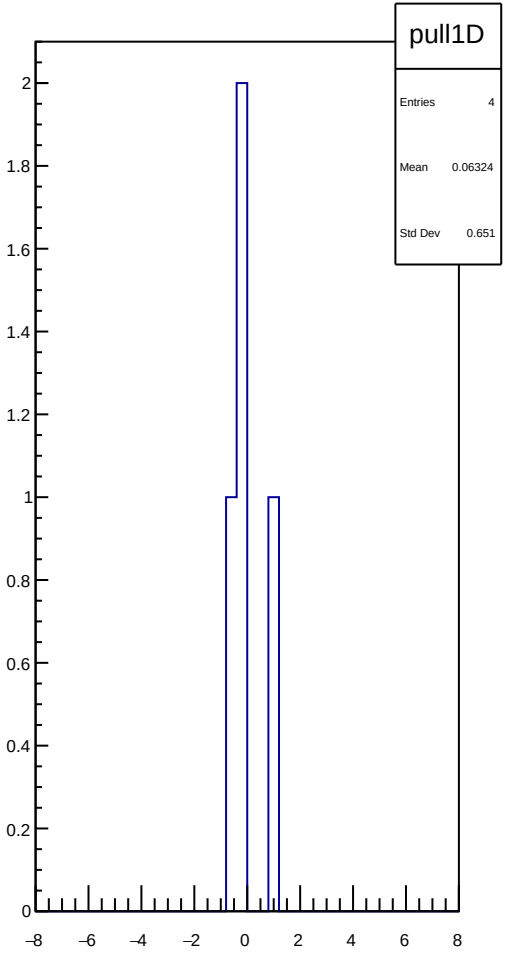

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 3.554 / 3
p0 −92.82 ± 9.073
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −363.2
Std Dev 364.8
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.002062
Std Dev 0.9426
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

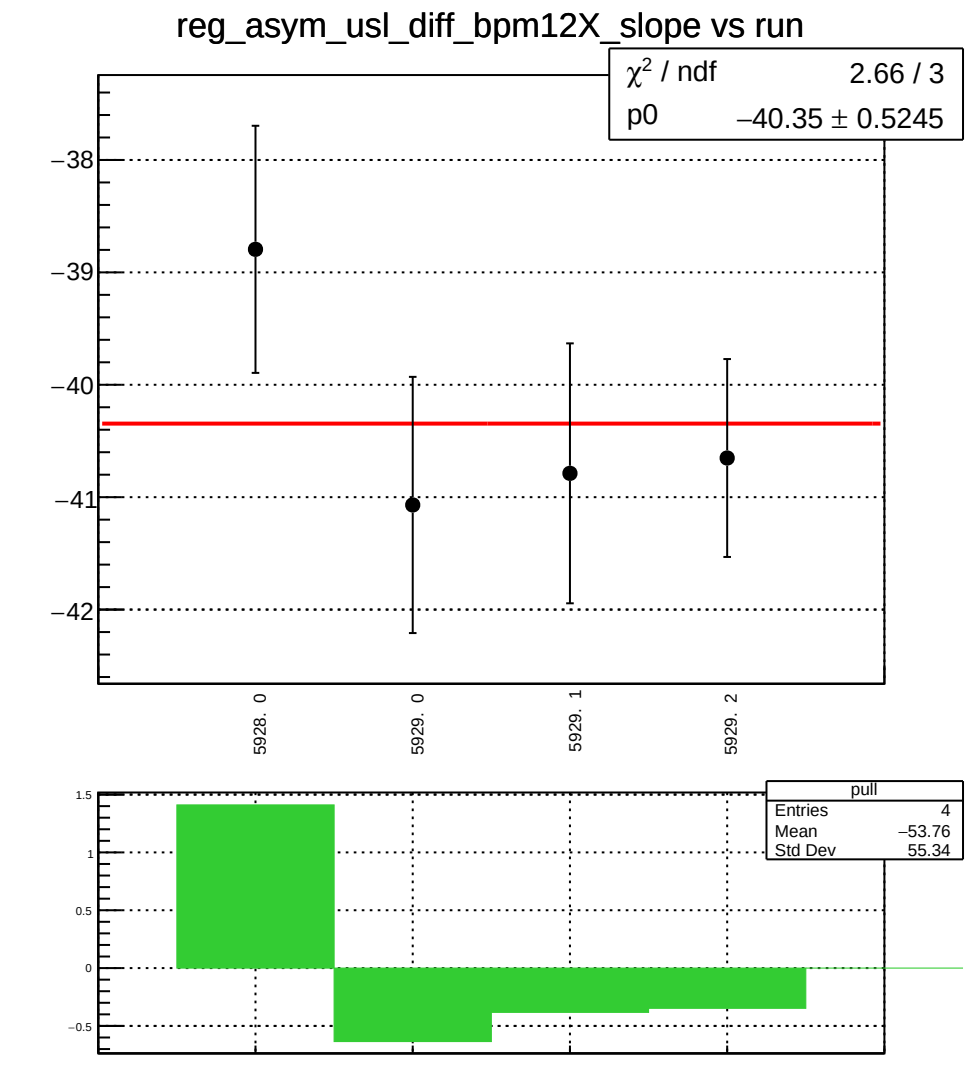

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 2.12 / 3
p0 −2.014 ± 7.529
20
10
0
−10
−20
−30
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.274
Std Dev 4.903
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.07412
Std Dev 0.7242
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

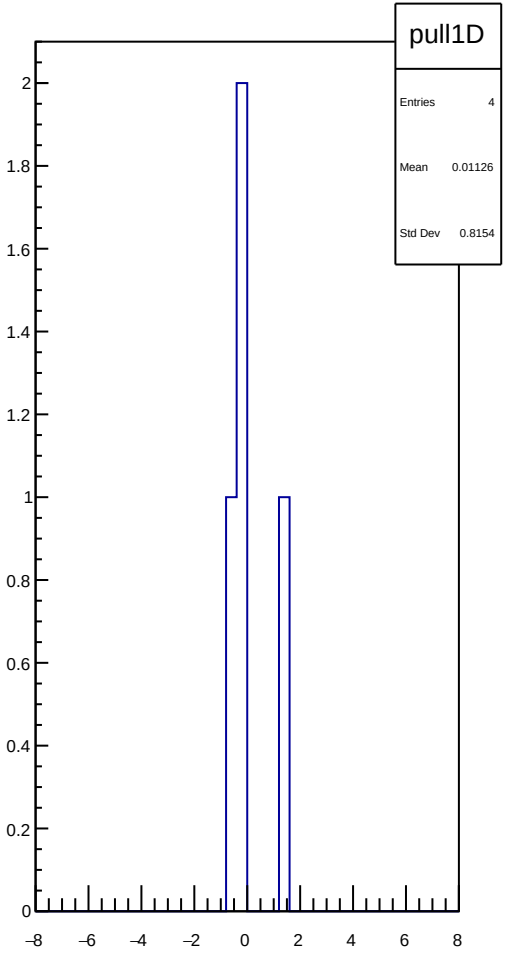

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 3.29 / 3
p0 78.3 ± 11.47
140
120
100
80
60
40
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −79.92
Std Dev 81.56
1
0.5
0
−0.5
−1

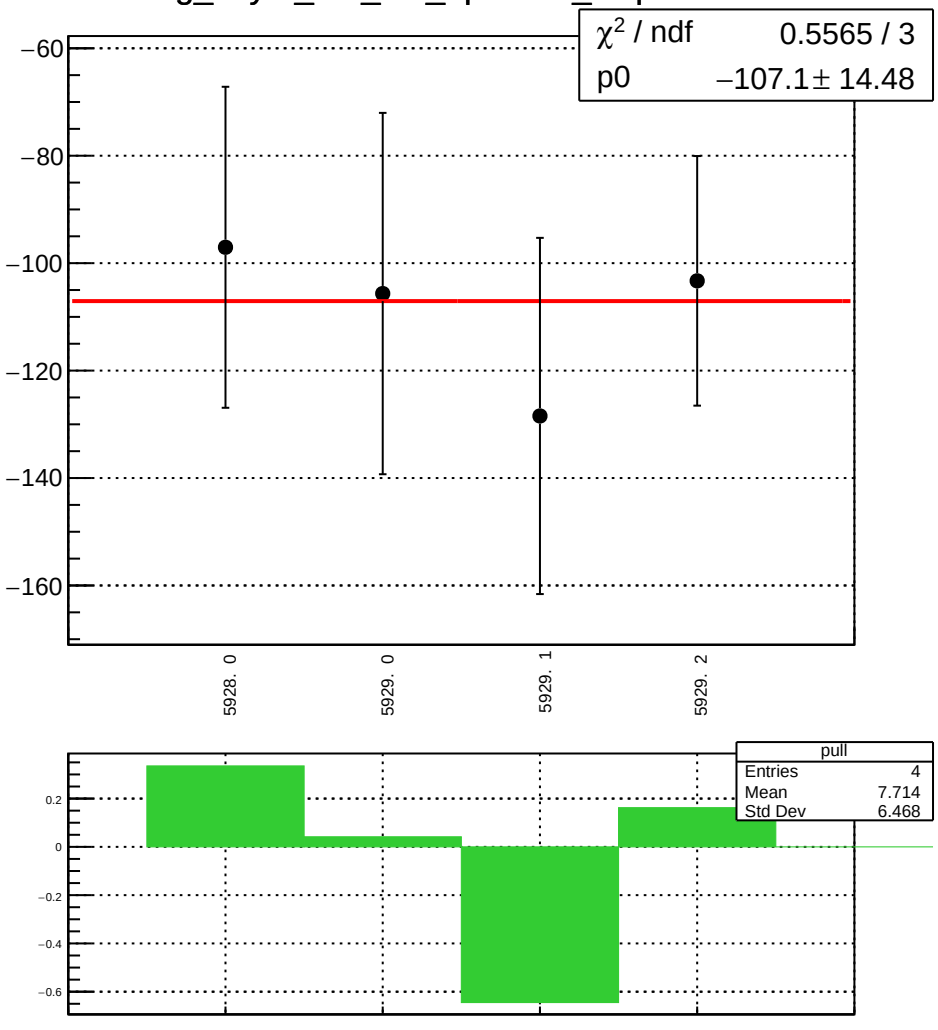

pull1D
Entries 4
Mean −0.009302
Std Dev 0.9068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

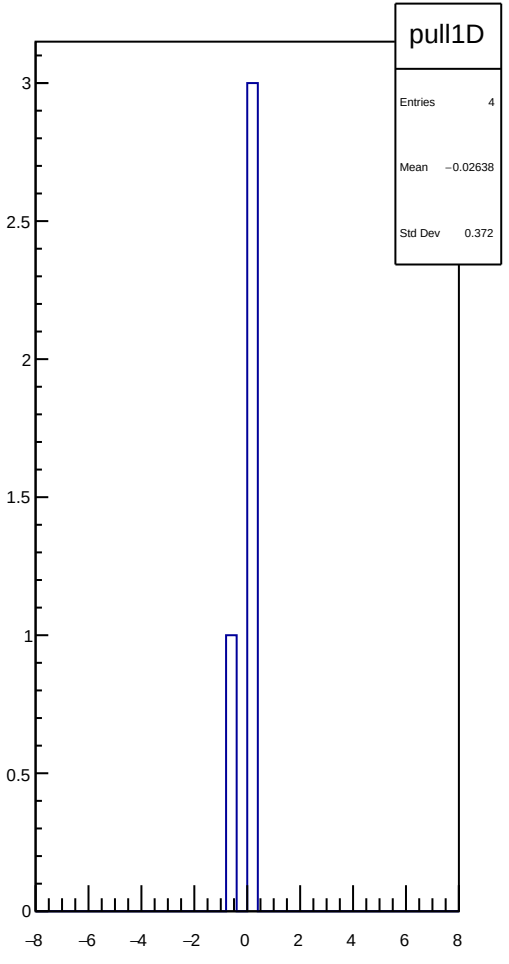

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 1.711 / 3
p0 23.37 ± 8.381
70
60
50
40
30
20
10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.024
Std Dev 4.742
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

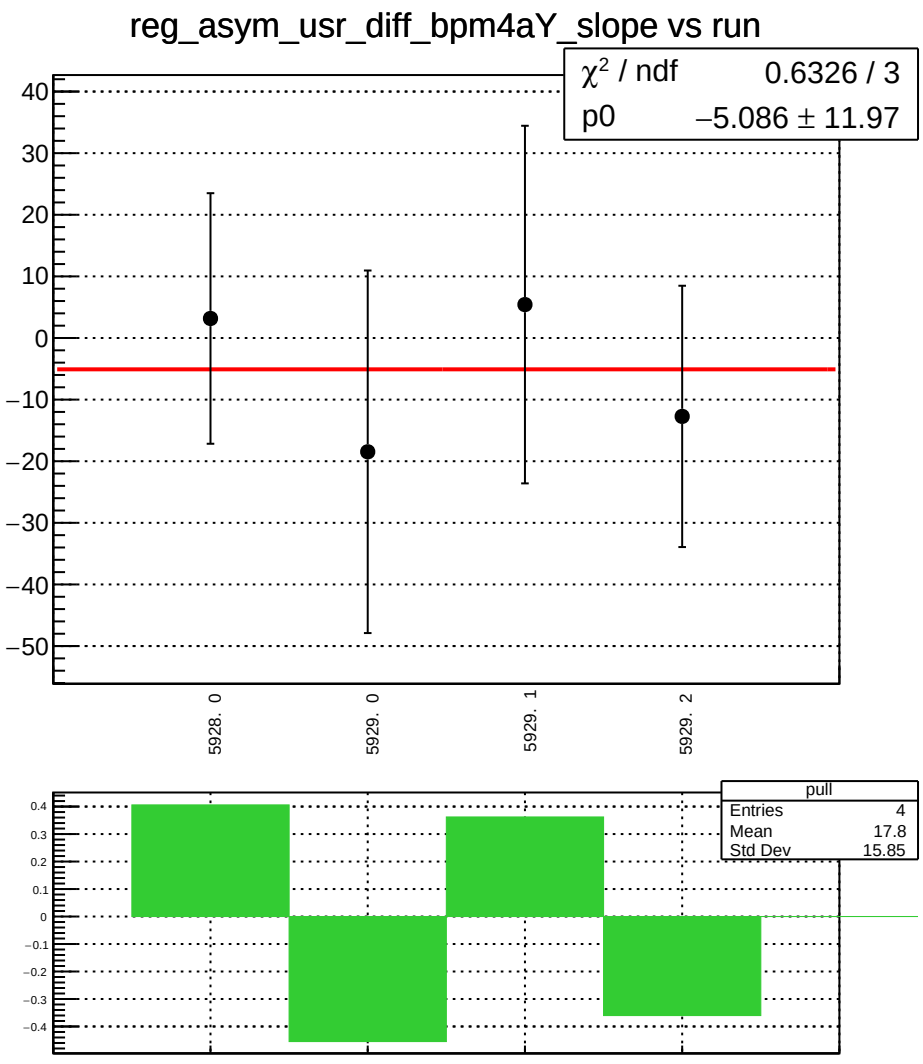

pull1D
Entries 4
Mean 0.06324
Std Dev 0.651
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

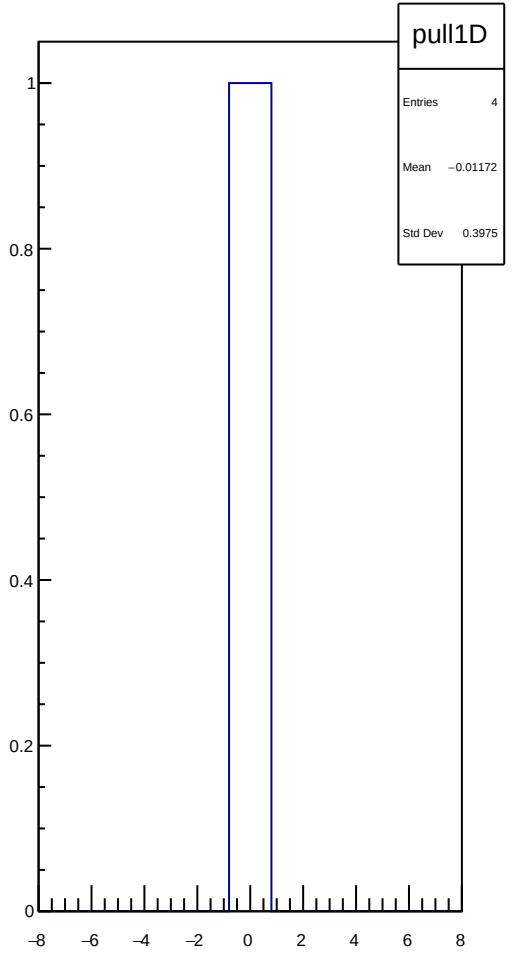

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 2.66 / 3
p0 −40.35 ± 0.5245
−38
−39
−40
−41
−42
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −53.76
Std Dev 55.34
1.5
1
0.5
0
−0.5

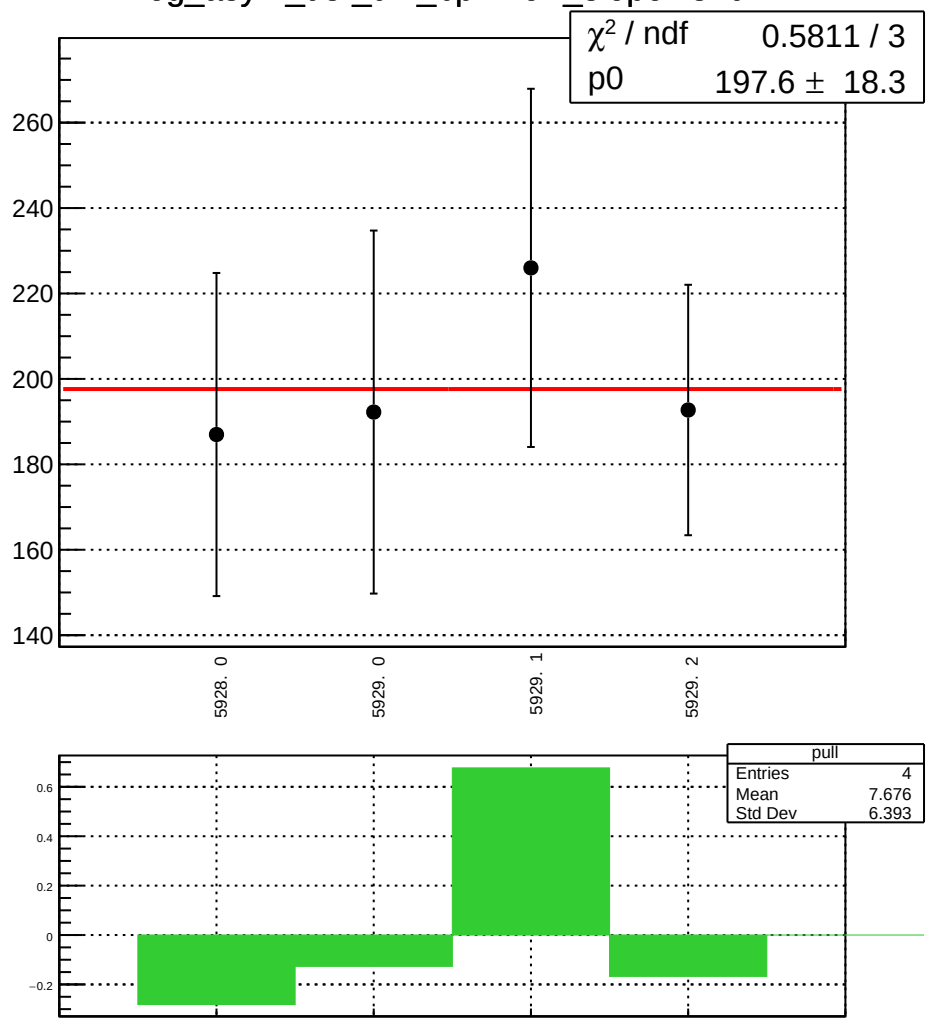

pull1D
Entries 4
Mean 0.01126
Std Dev 0.8154
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

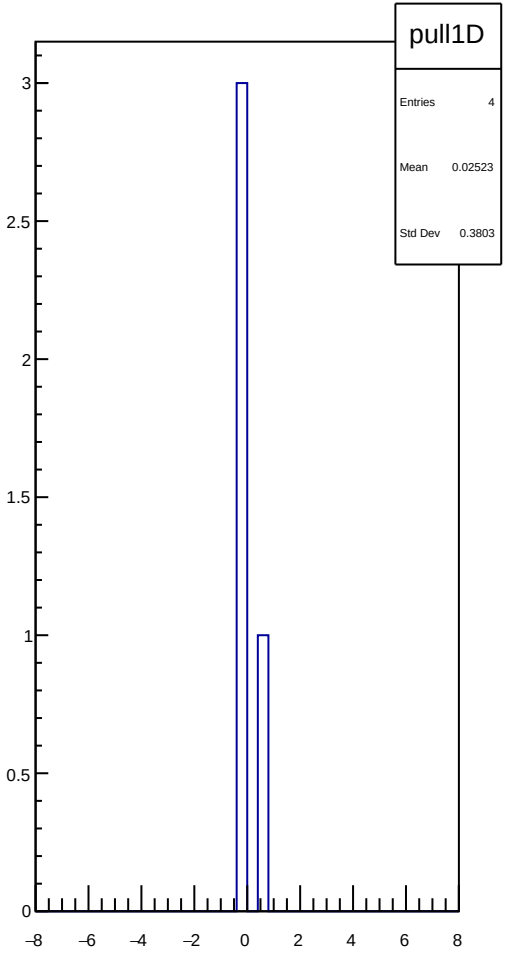

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 0.5565 / 3
p0 −107.1± 14.48
−60
−80
−100
−120
−140
−160
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.714
Std Dev 6.468
0.2
0
−0.2
−0.4
−0.6

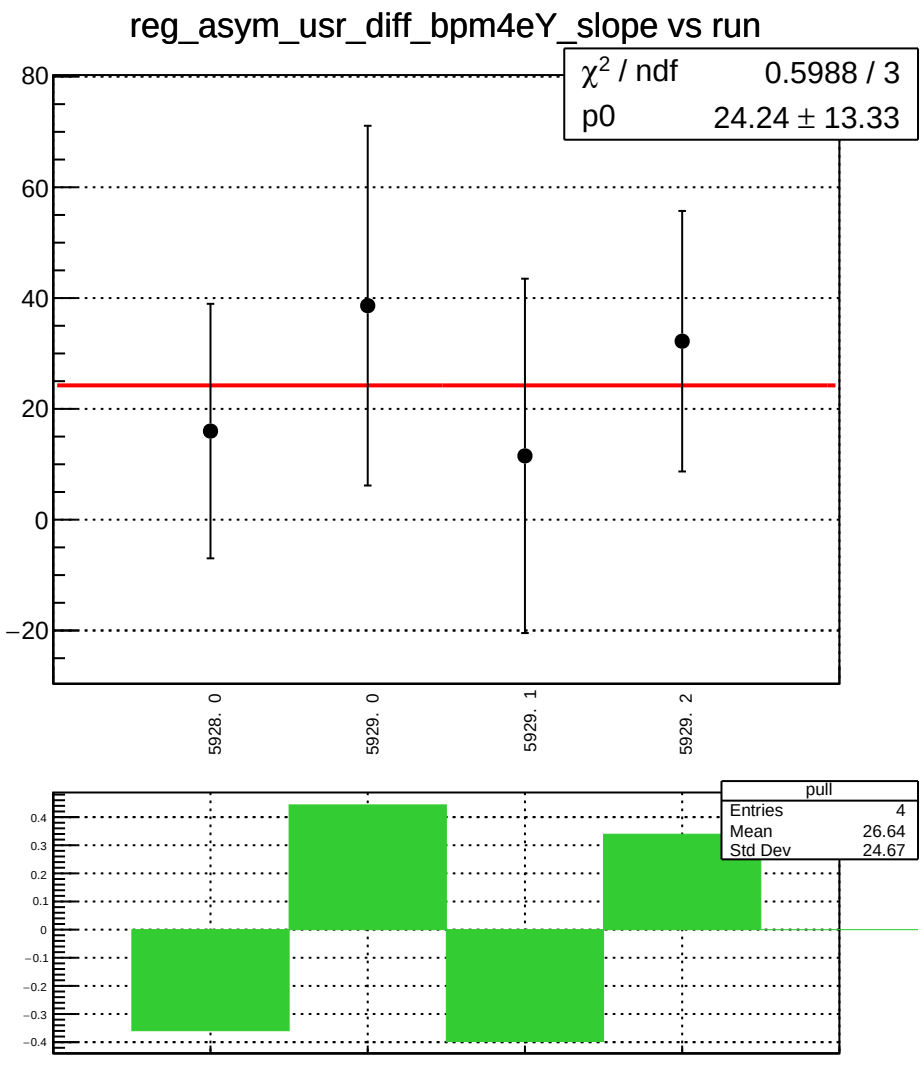

pull1D
Entries 4
Mean −0.02638
Std Dev 0.372
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

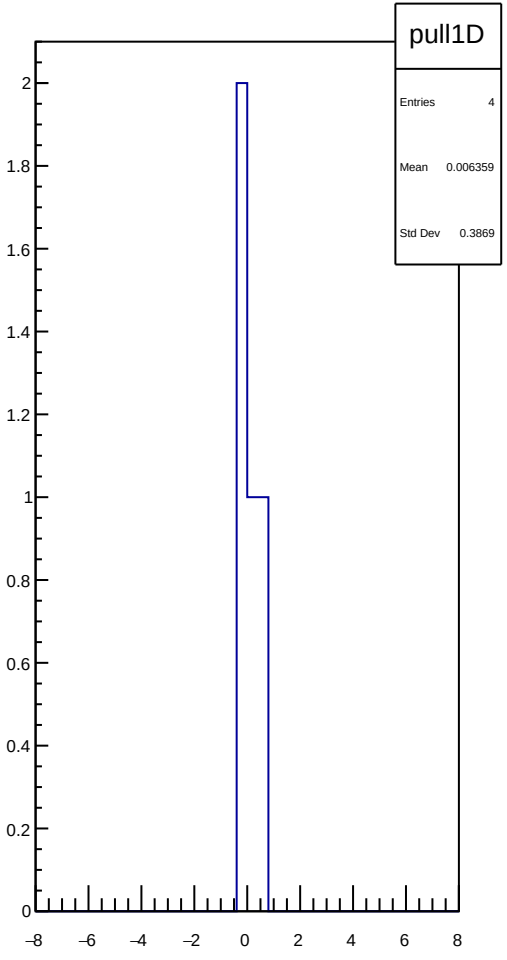

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 0.6326 / 3
p0 −5.086 ± 11.97
40
30
20
10
0
−10
−20
−30
−40
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 17.8
Std Dev 15.85
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

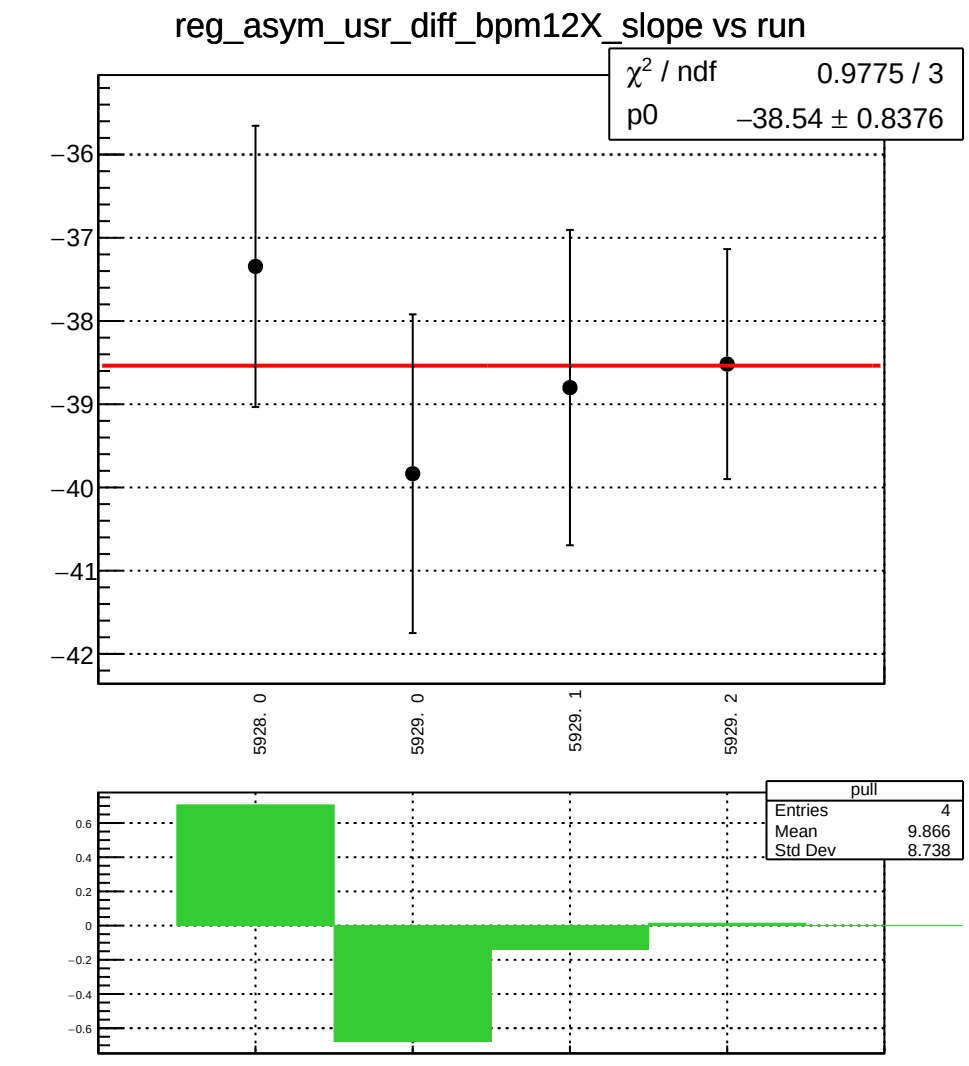

pull1D
Entries 4
Mean −0.01172
Std Dev 0.3975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

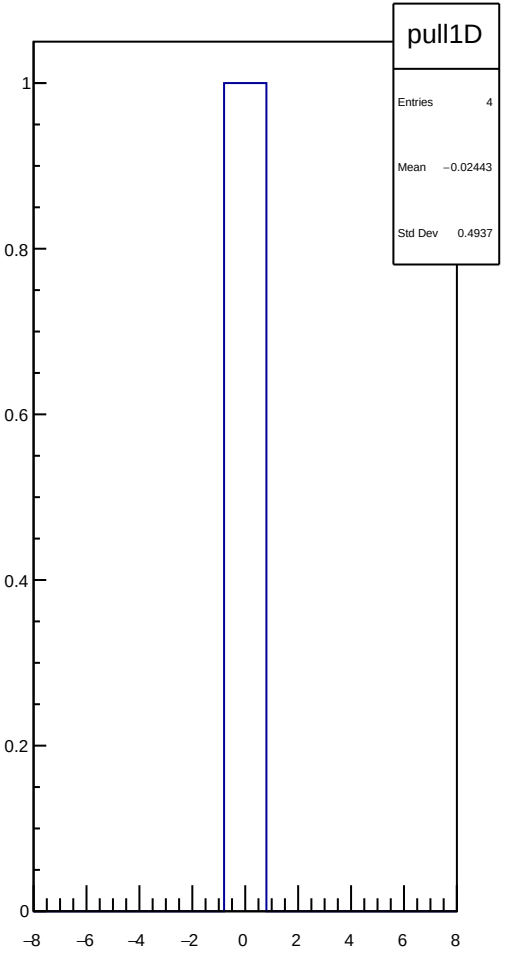

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 0.5811 / 3
p0 197.6 ± 18.3
260
240
220
200
180
160
140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 7.676
Std Dev 6.393
0.6
0.4
0.2
0
−0.2

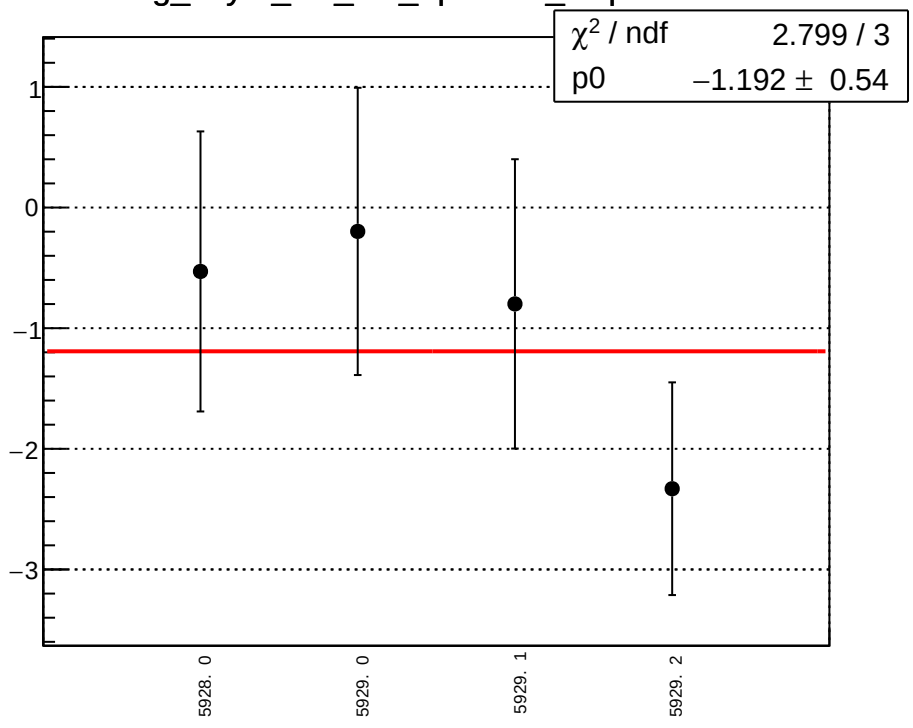

pull1D
Entries 4
Mean 0.02523
Std Dev 0.3803
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

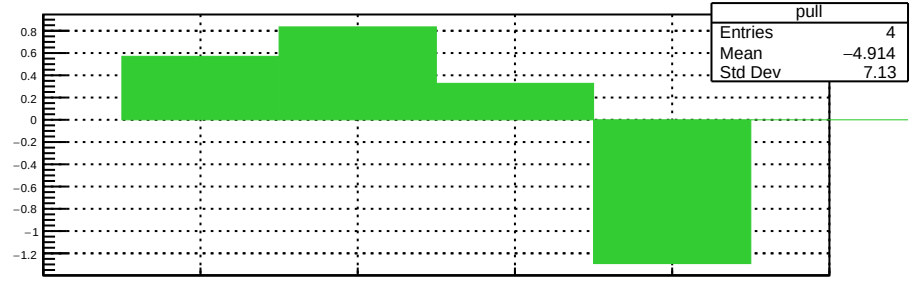

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 0.5988 / 3
p0 24.24 ± 13.33
80
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 26.64
Std Dev 24.67
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

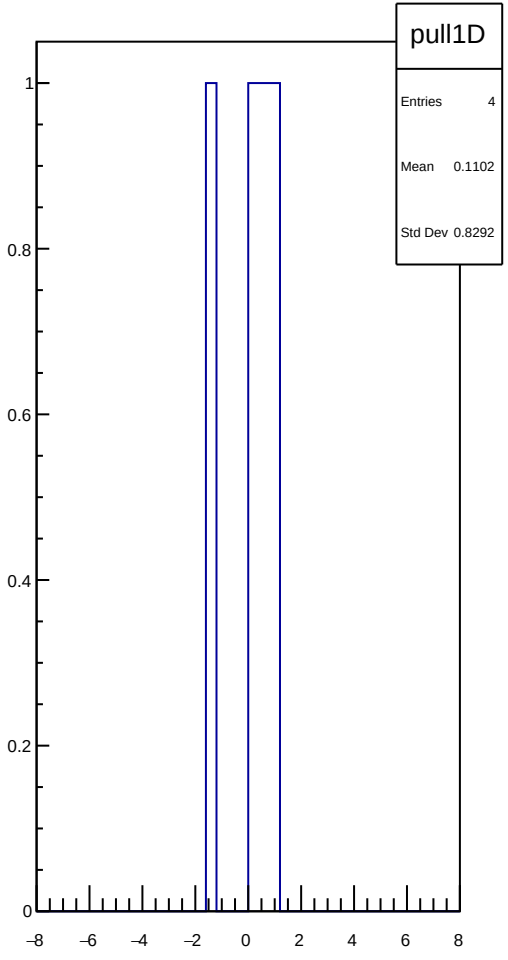

pull1D
Entries 4
Mean 0.006359
Std Dev 0.3869
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

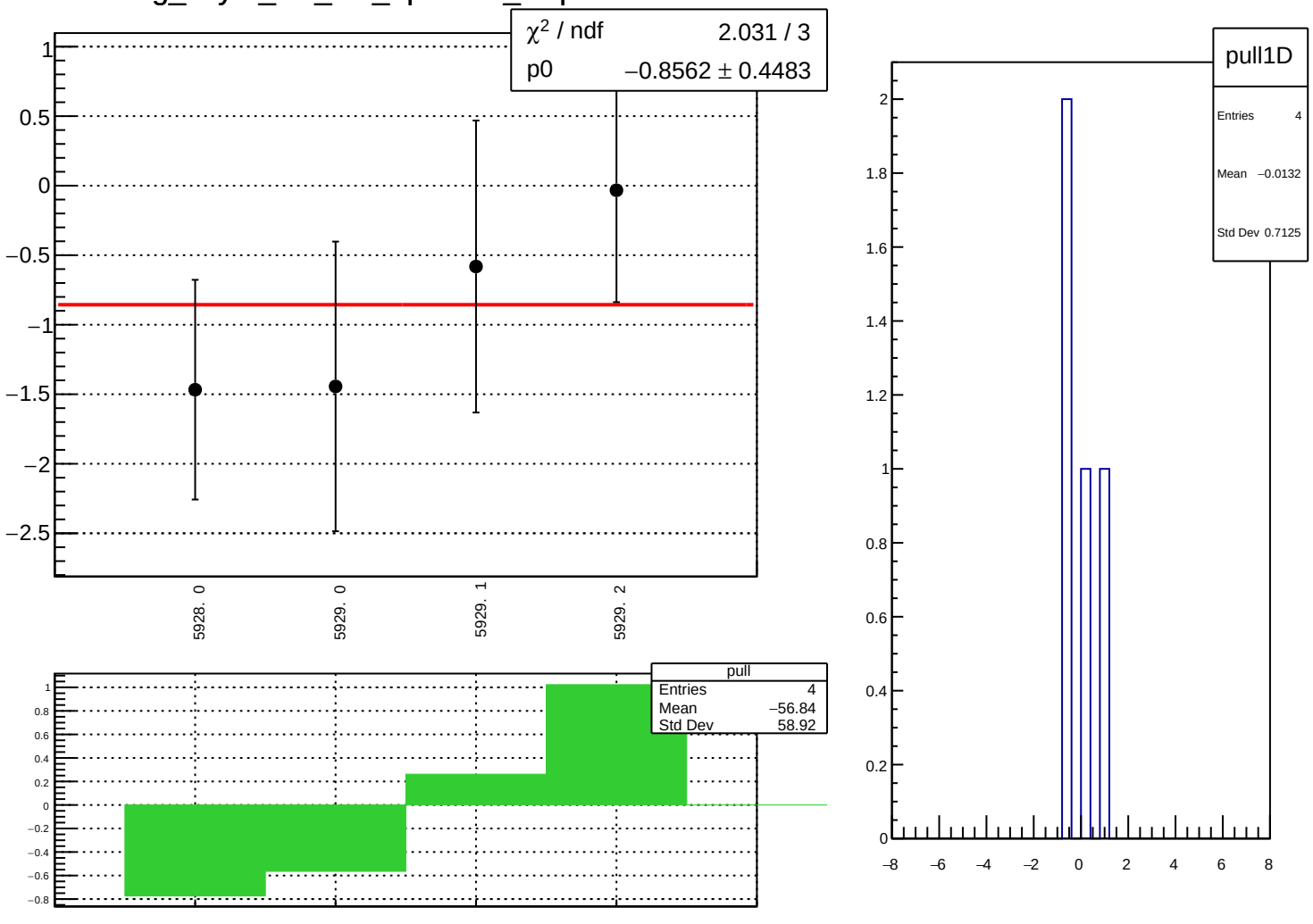

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 0.9775 / 3
p0 −38.54 ± 0.8376
−36
−37
−38
−39
−40
−41
−42
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.866
Std Dev 8.738
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

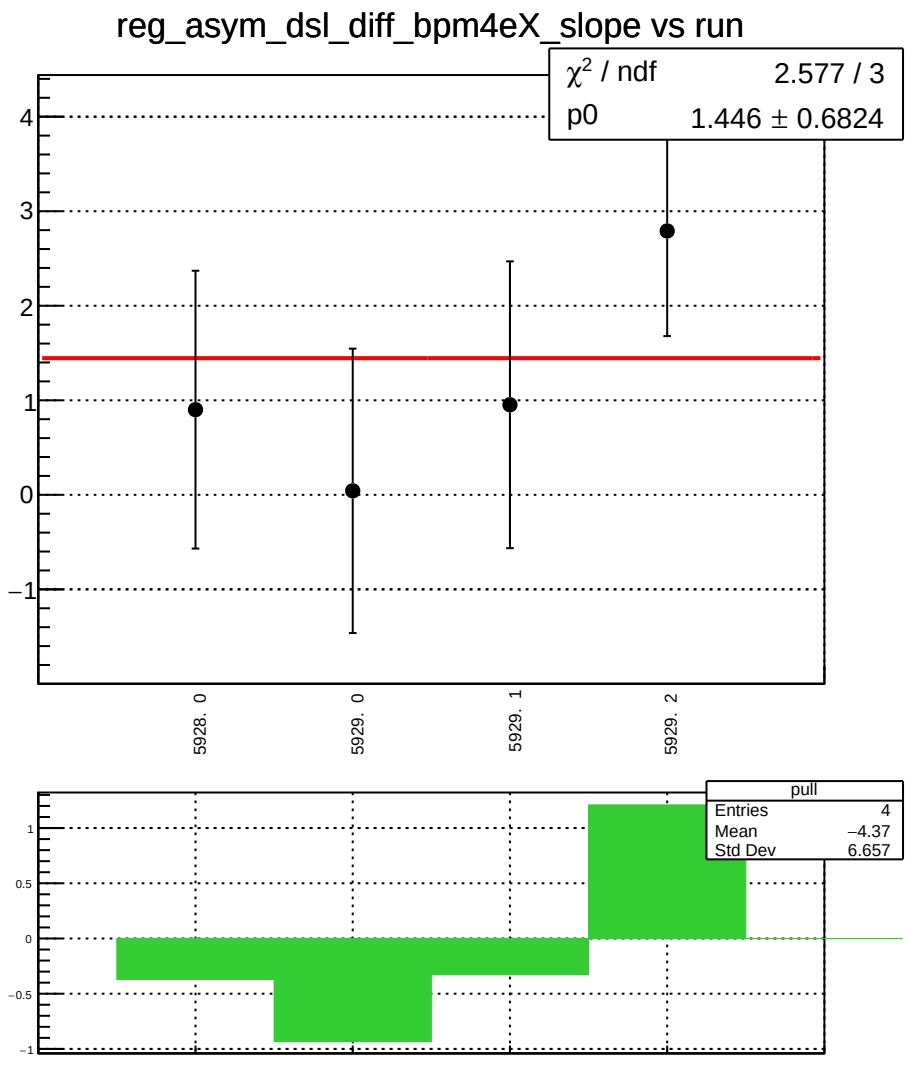

pull1D
Entries 4
Mean −0.02443
Std Dev 0.4937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

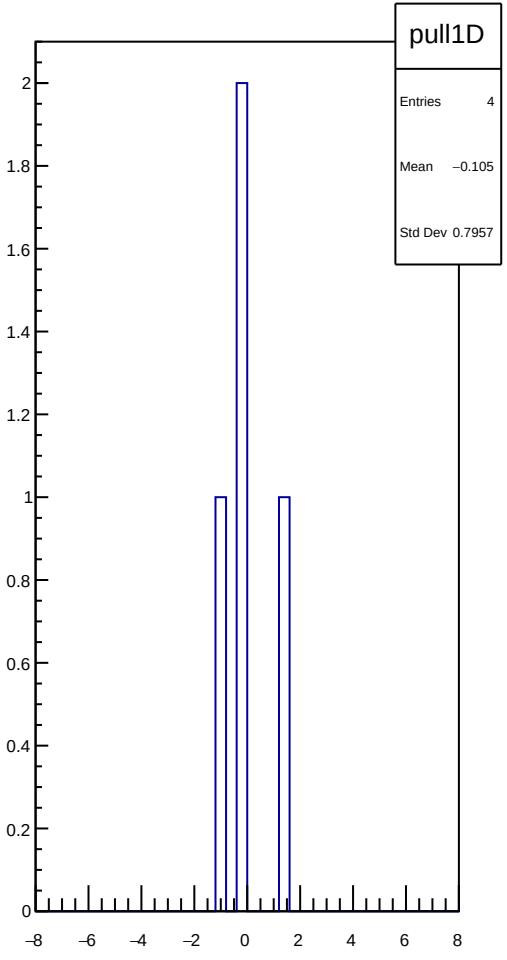

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 2.799 / 3
p0 −1.192 ± 0.54
1
0
−1
−2
−3
5928. 0
5929. 0
5929. 1
5929. 2

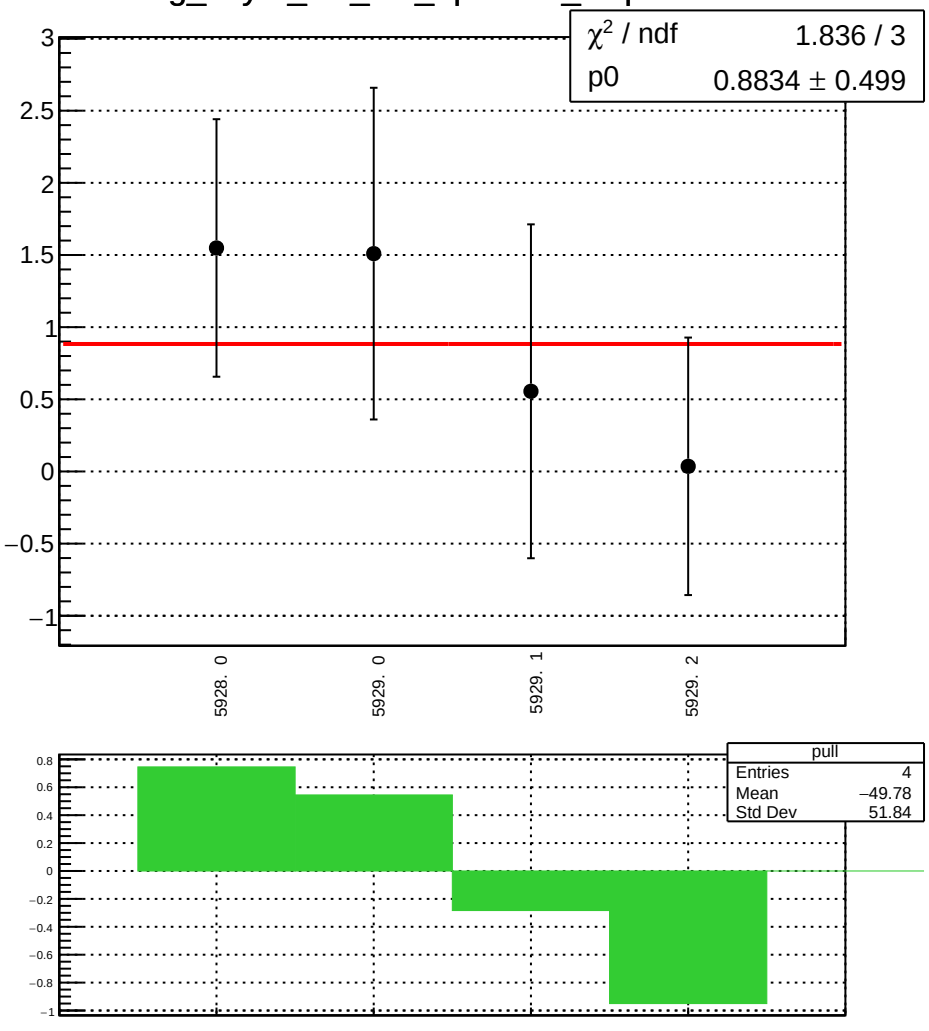

pull
Entries 4
Mean −4.914
Std Dev 7.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

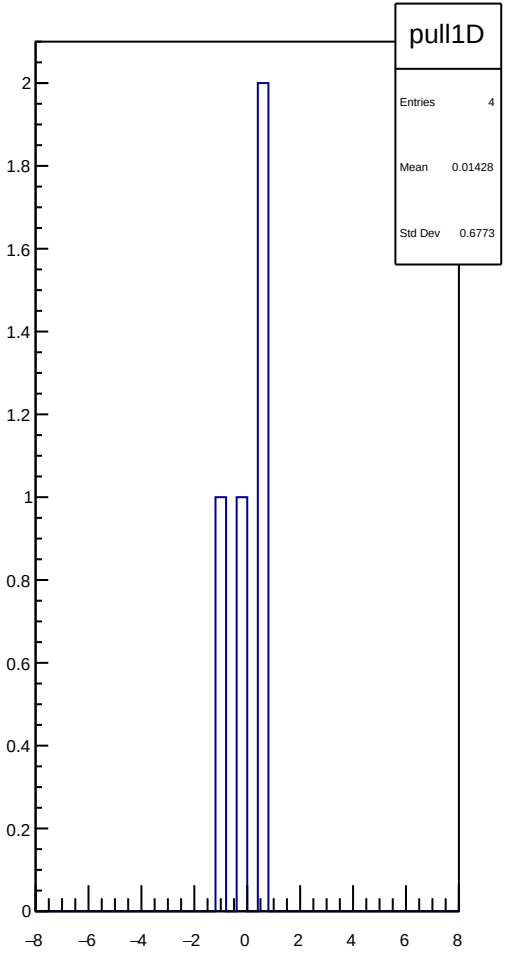

pull1D
Entries 4
Mean 0.1102
Std Dev 0.8292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

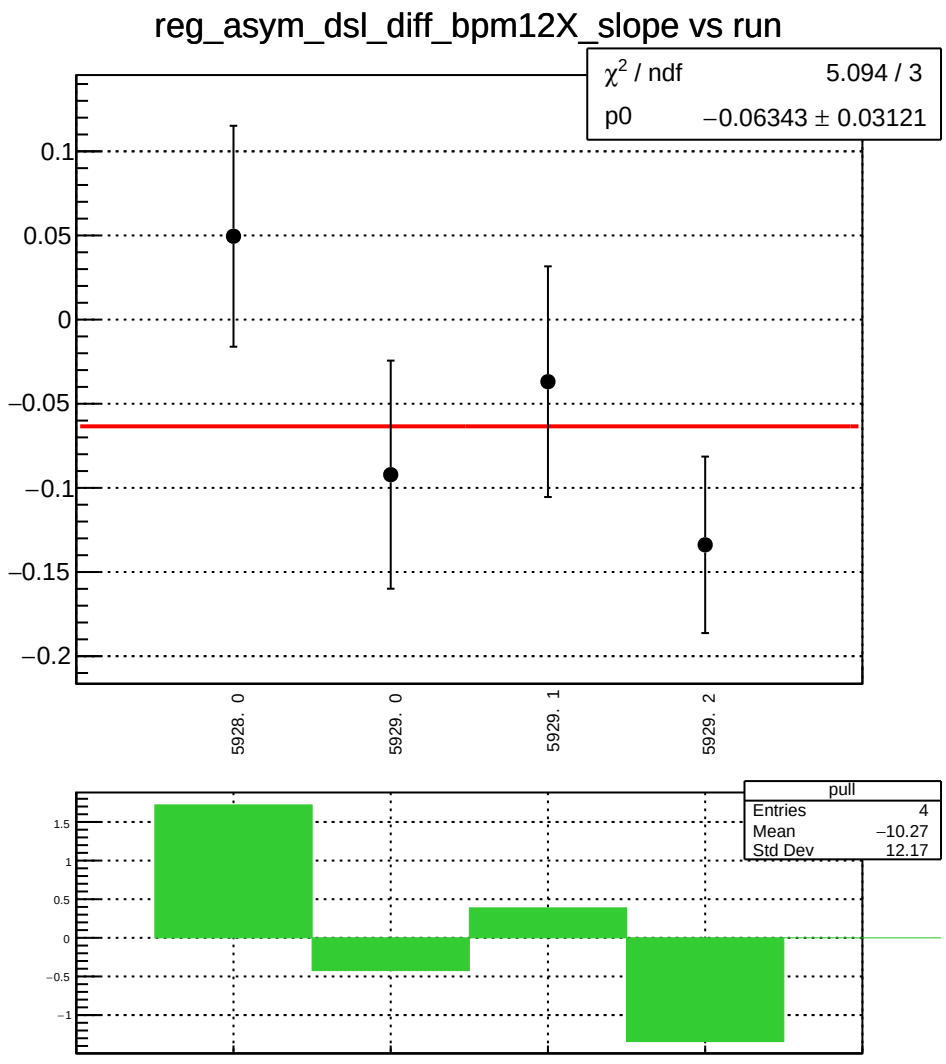

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 2.031 / 3
p0 −0.8562 ± 0.4483
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −56.84
Std Dev 58.92
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.0132
Std Dev 0.7125
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

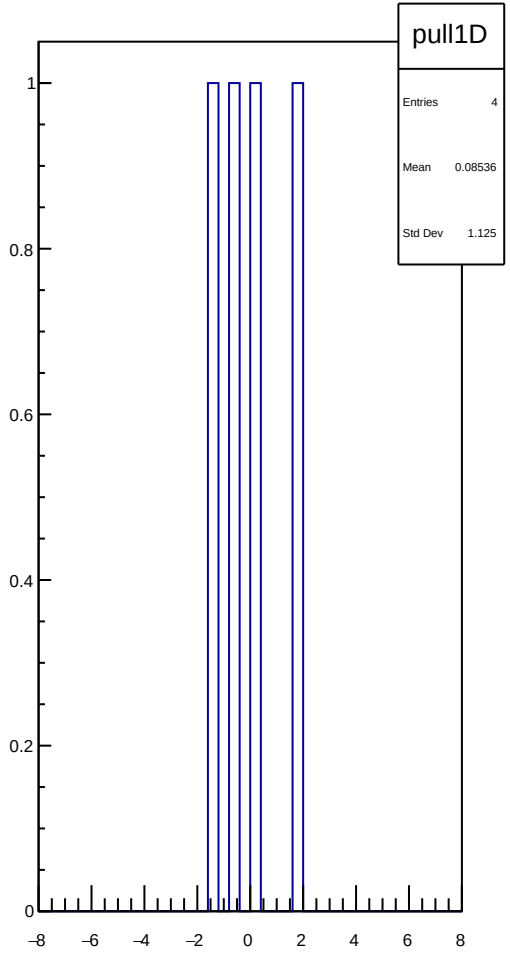

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 2.577 / 3
p0 1.446 ± 0.6824
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.37
Std Dev 6.657
1
0.5
0
−0.5
−1

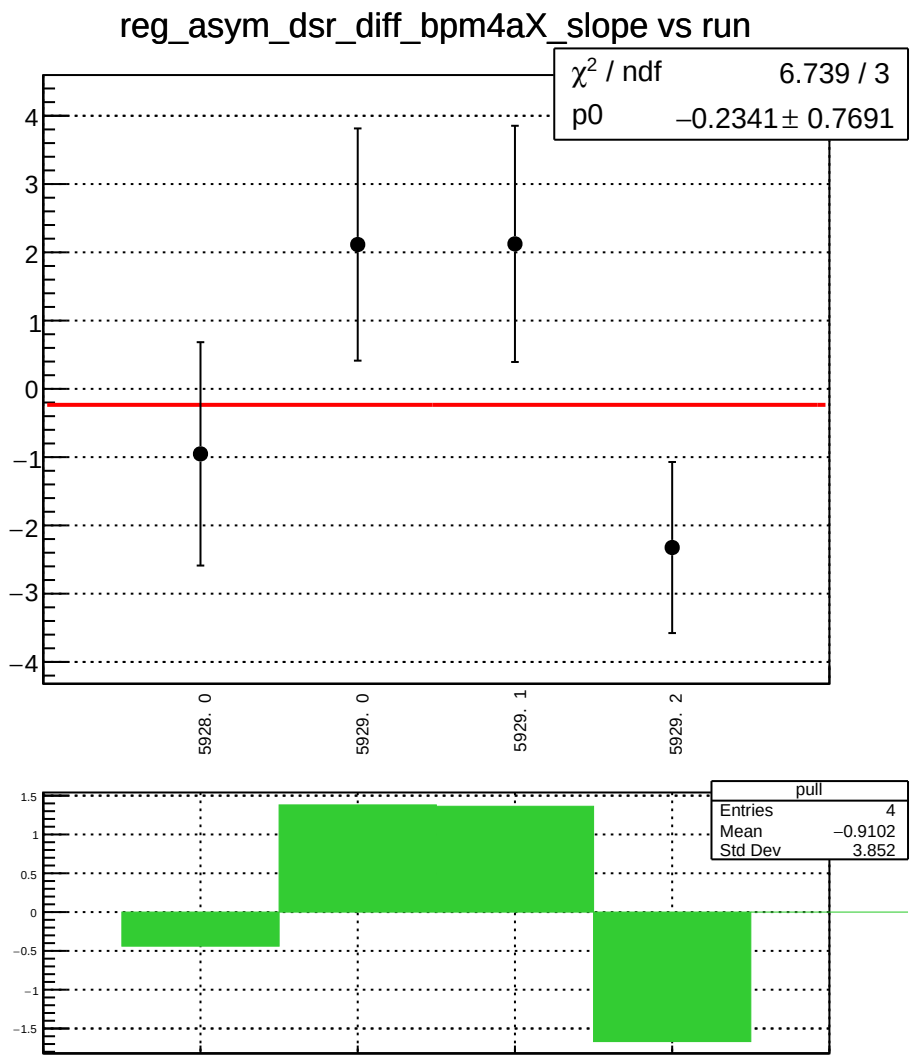

pull1D
Entries 4
Mean −0.105
Std Dev 0.7957
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

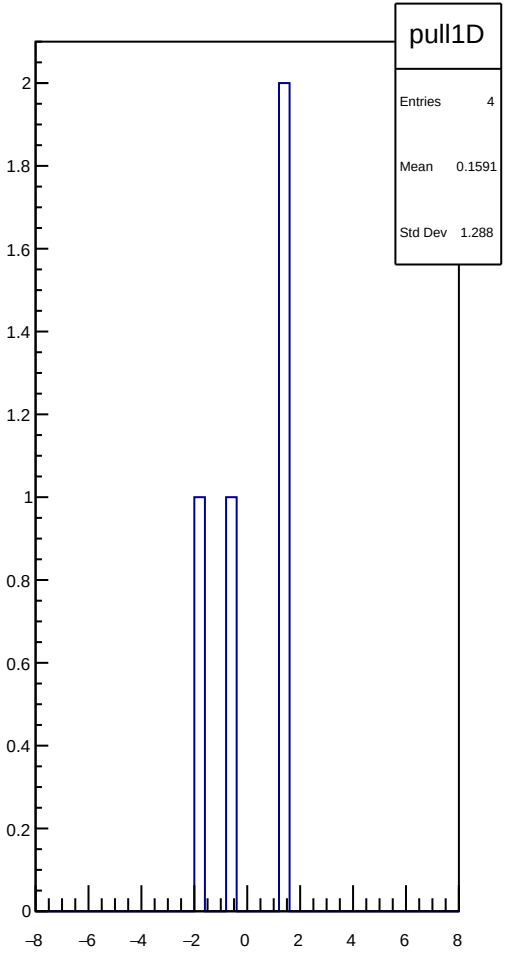

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 1.836 / 3
p0 0.8834 ± 0.499
3
2.5
2
1.5
1
0.5
0
−0.5
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −49.78
Std Dev 51.84
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

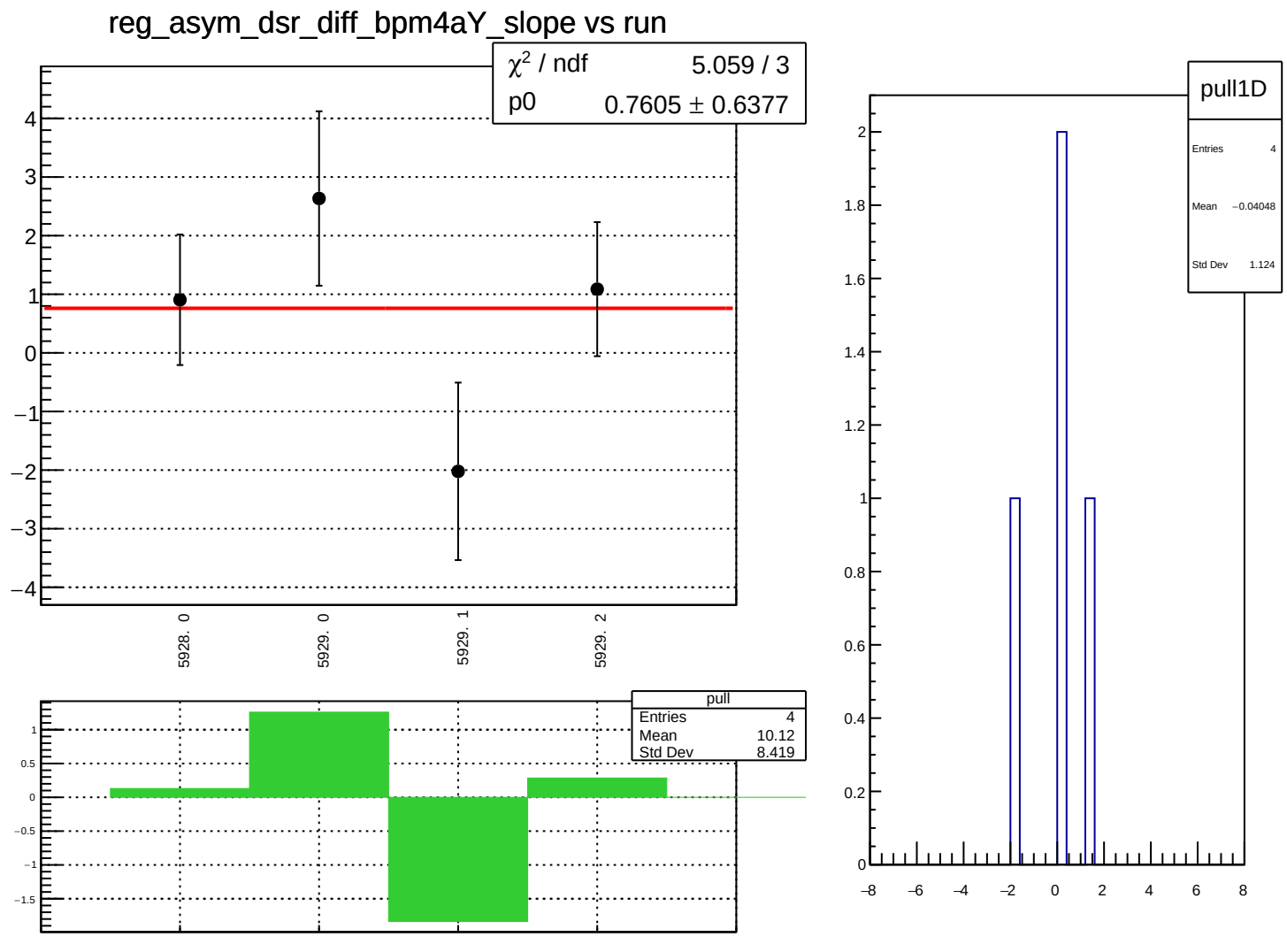

pull1D
Entries 4
Mean 0.01428
Std Dev 0.6773
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

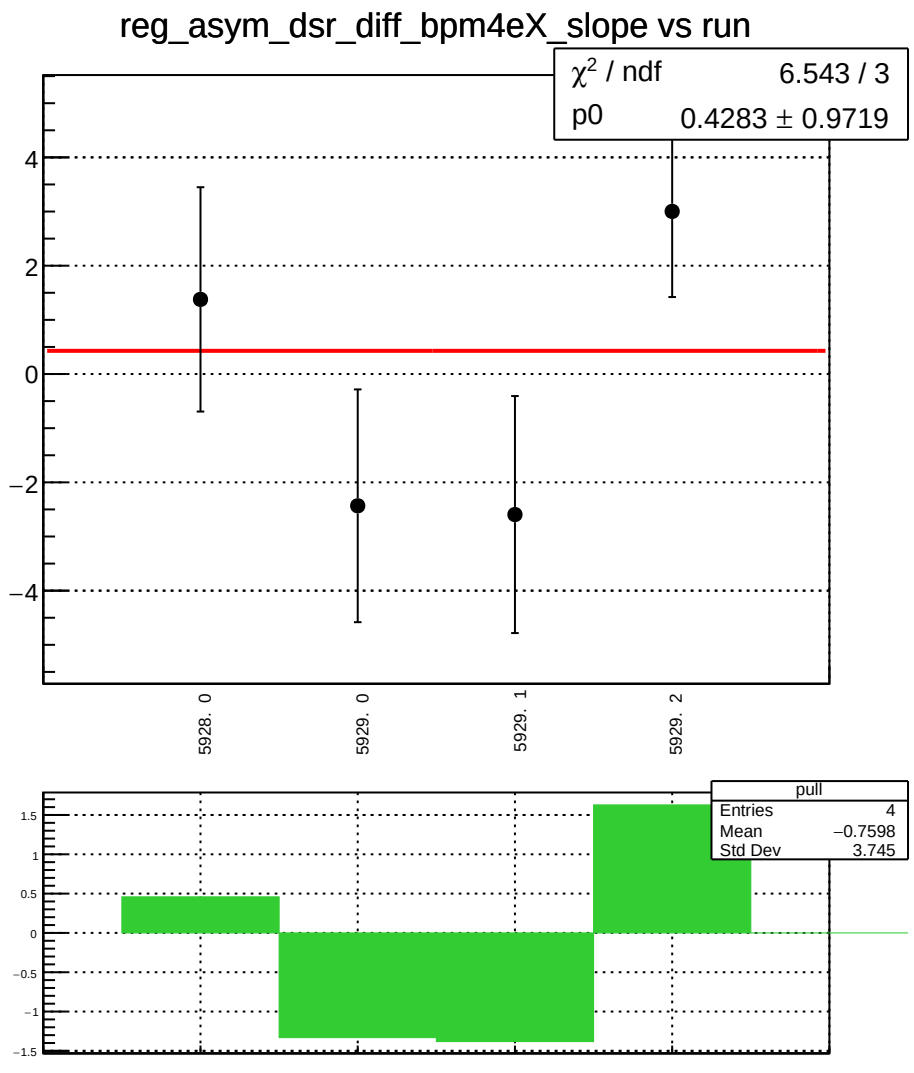

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 5.094 / 3
p0 −0.06343 ± 0.03121
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −10.27
Std Dev 12.17
1.5
1
0.5
0
−0.5
−1

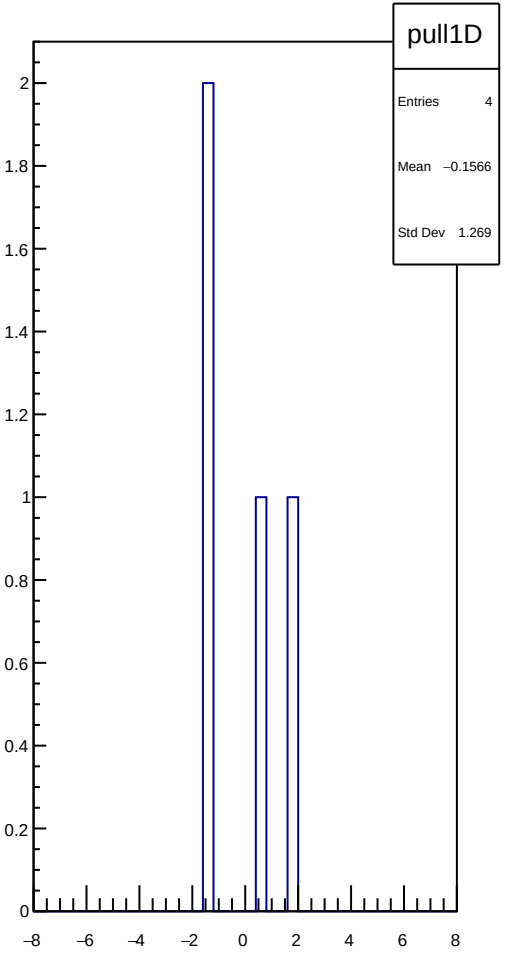

pull1D
Entries 4
Mean 0.08536
Std Dev 1.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

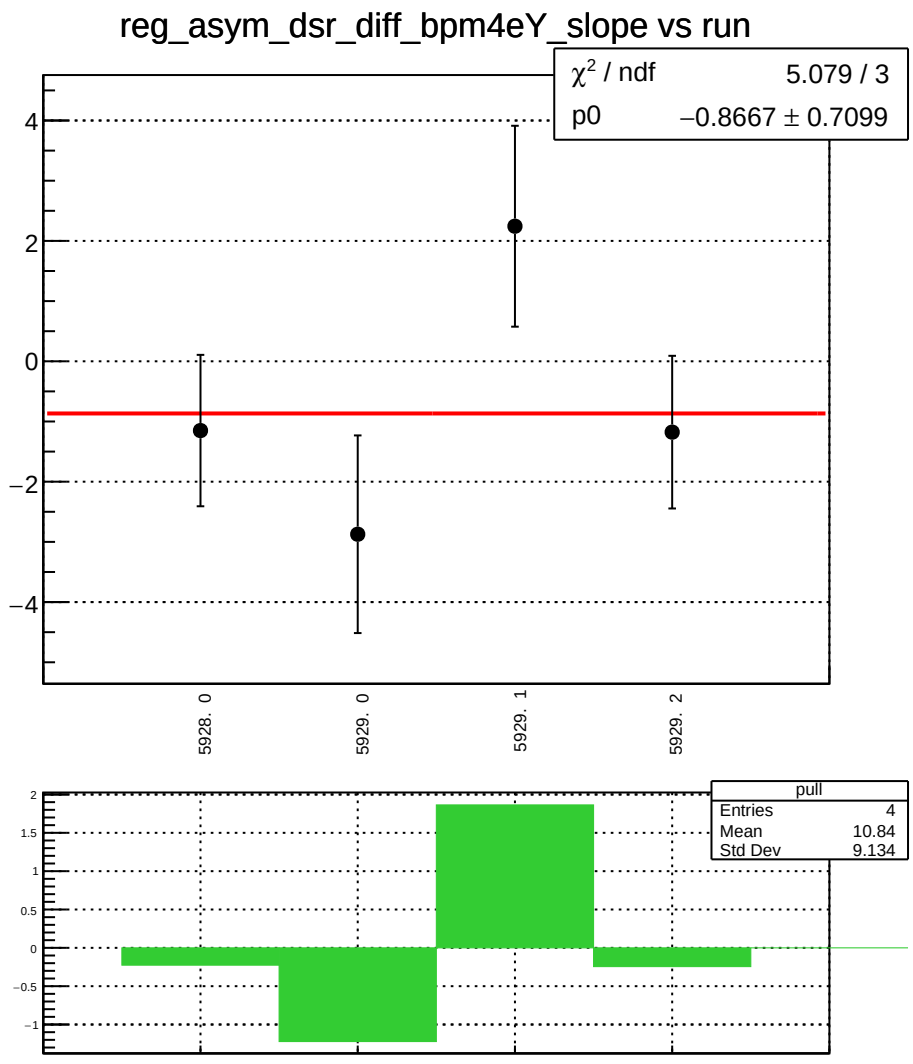

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 6.739 / 3
p0 −0.2341 ± 0.7691
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.9102
Std Dev 3.852

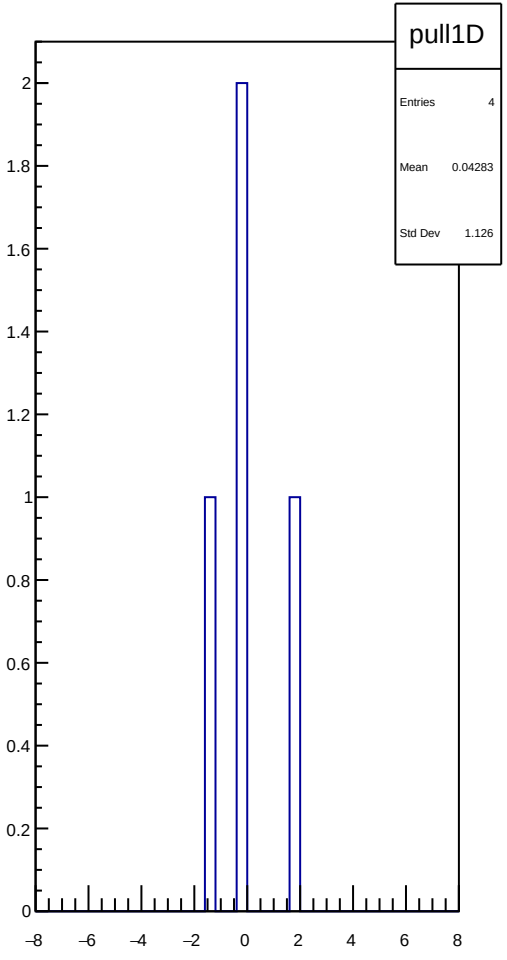

pull1D
Entries 4
Mean 0.1591
Std Dev 1.288

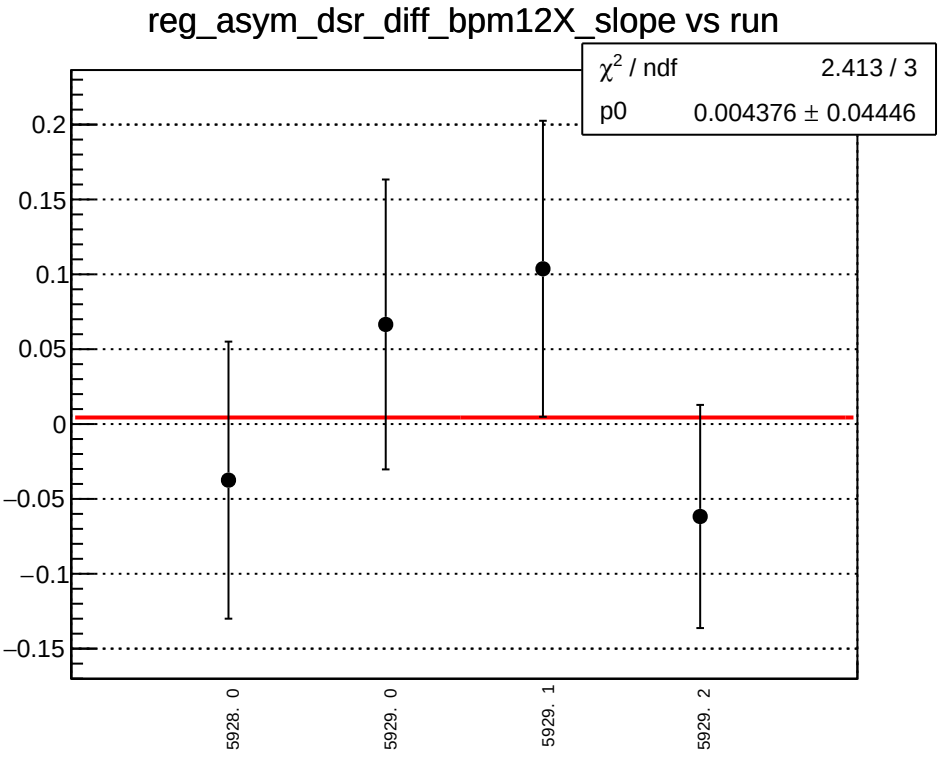

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 5.059 / 3
p0 0.7605 ± 0.6377
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.12
Std Dev 8.419
pull1D
Entries 4
Mean −0.04048
Std Dev 1.124

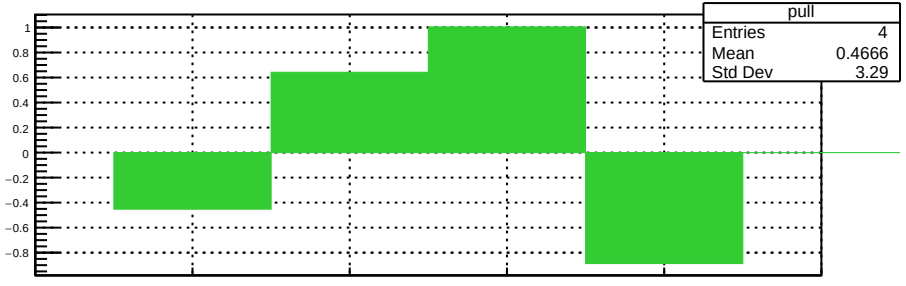

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 6.543 / 3
p0 0.4283 ± 0.9719
4
2
0
−2
−4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.7598
Std Dev 3.745
1.5
1
0.5
0
−0.5
−1
−1.5

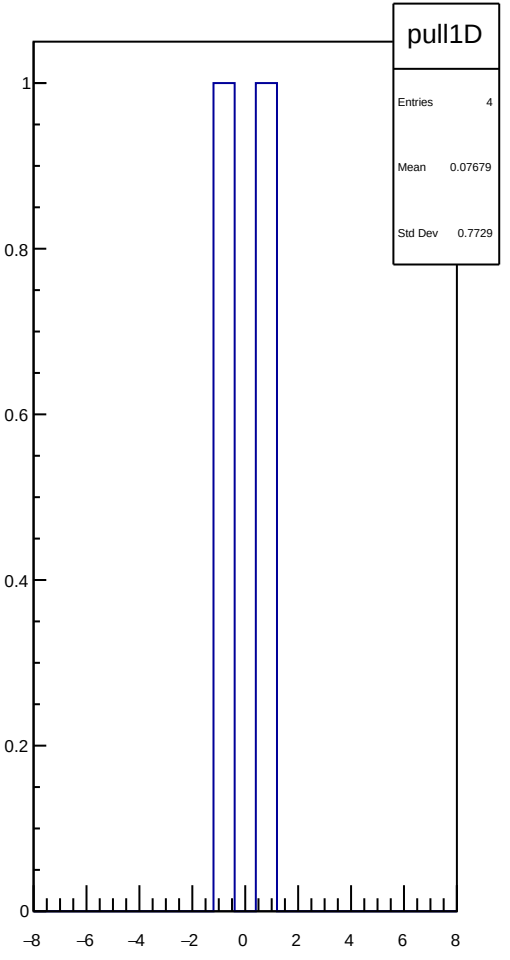

pull1D
Entries 4
Mean −0.1566
Std Dev 1.269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

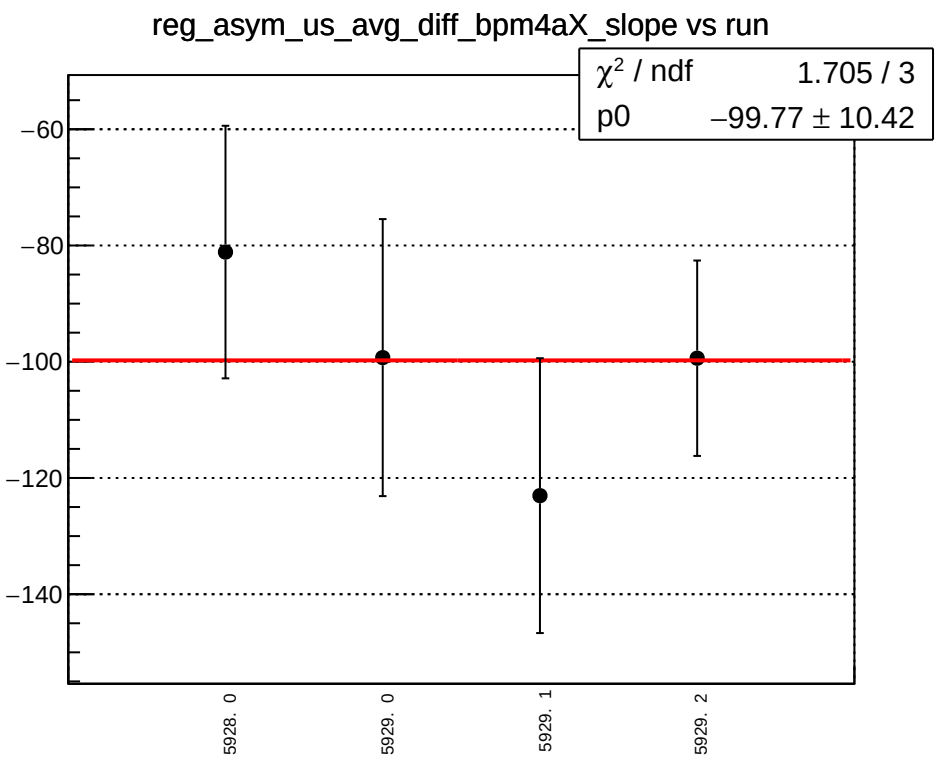

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 5.079 / 3
p0 −0.8667 ± 0.7099
4
2
0
−2
−4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.84
Std Dev 9.134
2
1.5
1
0.5
0
−0.5
−1

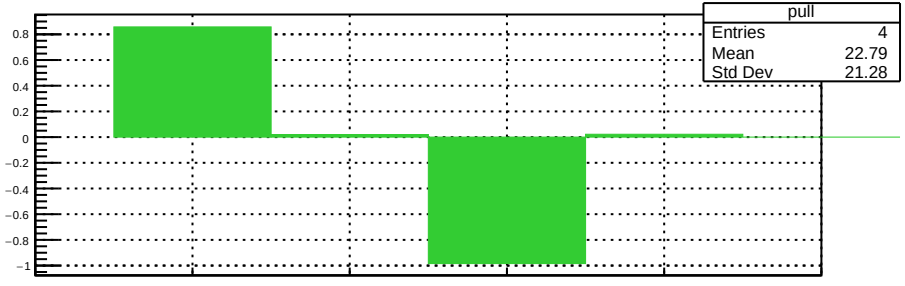

pull1D
Entries 4
Mean 0.04283
Std Dev 1.126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

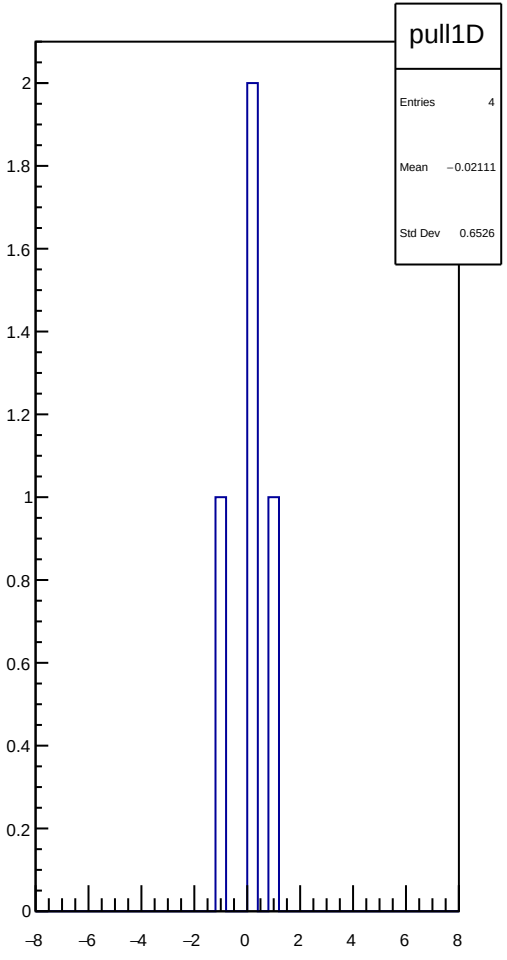

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 2.413 / 3
p0 0.004376 ± 0.04446
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5928. 0
5929. 0
5929. 1
5929. 2

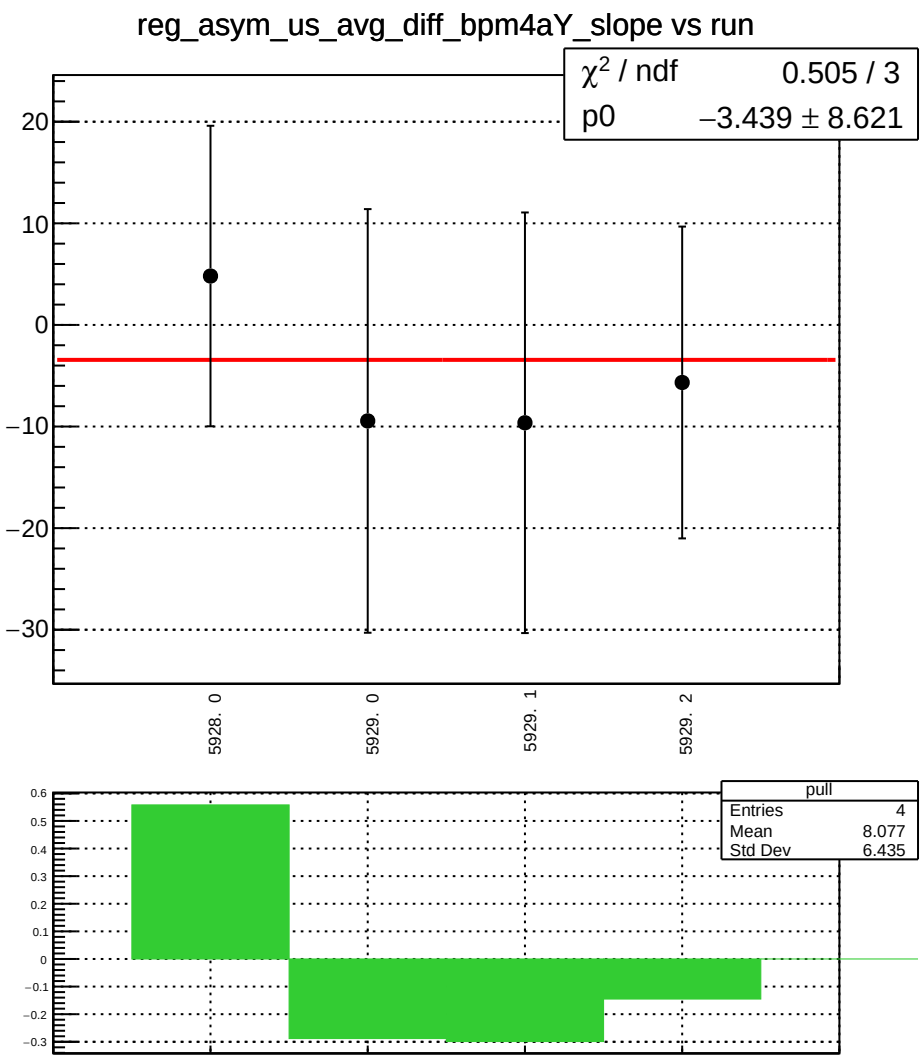

pull
Entries 4
Mean 0.4666
Std Dev 3.29
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

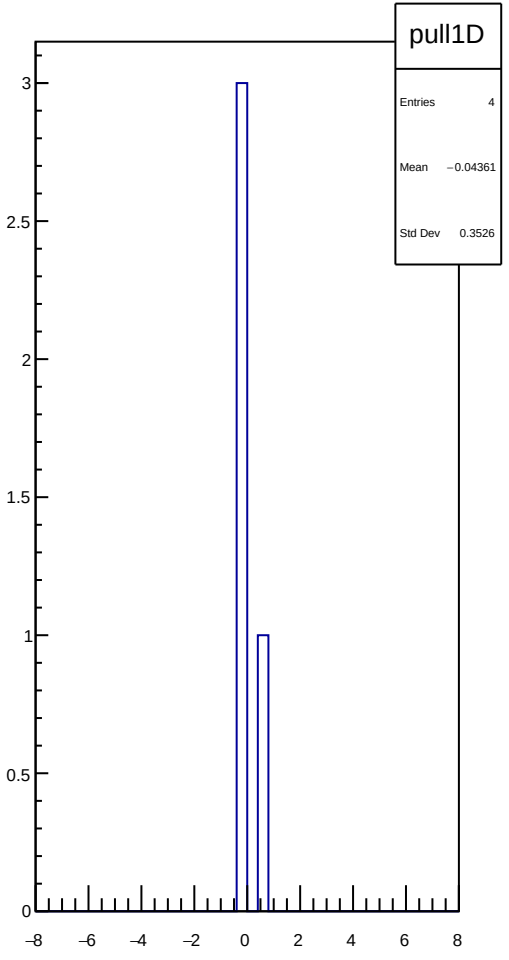

pull1D
Entries 4
Mean 0.07679
Std Dev 0.7729
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

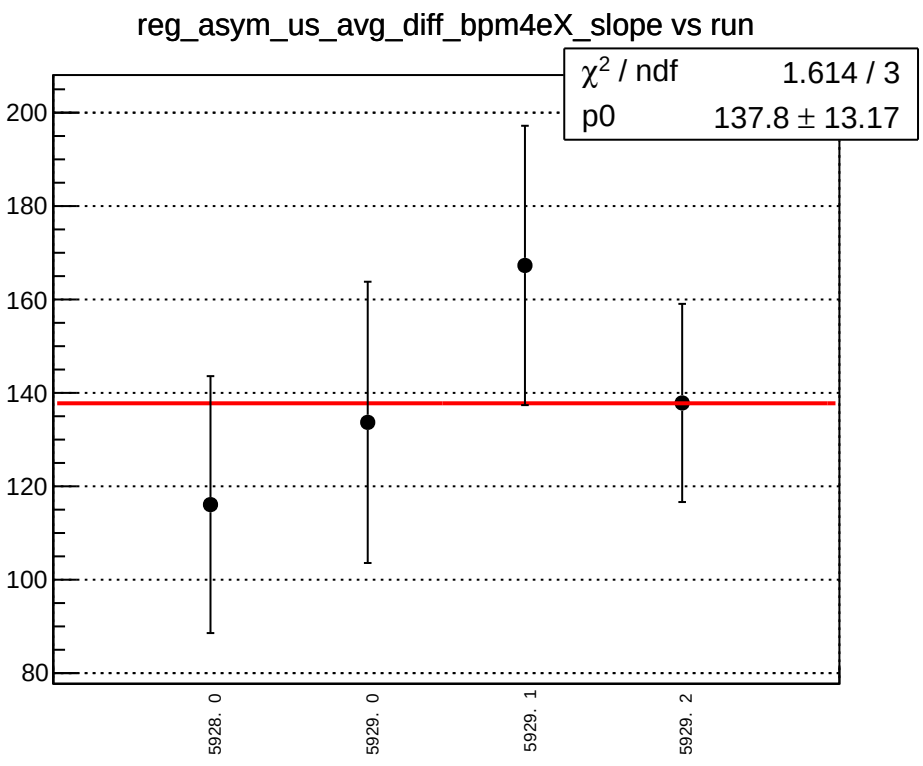

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.705 / 3
p0 −99.77 ± 10.42
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2

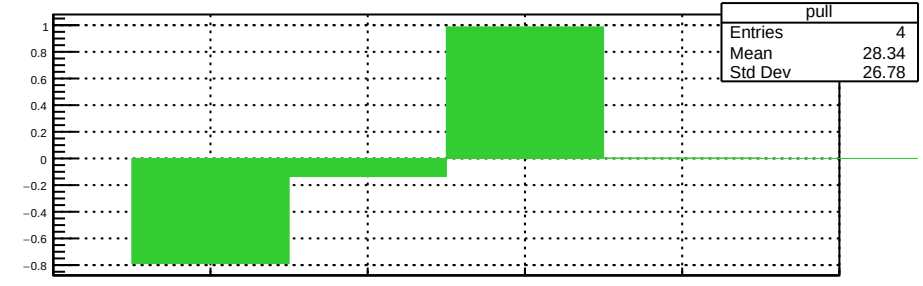

pull
Entries 4
Mean 22.79
Std Dev 21.28
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

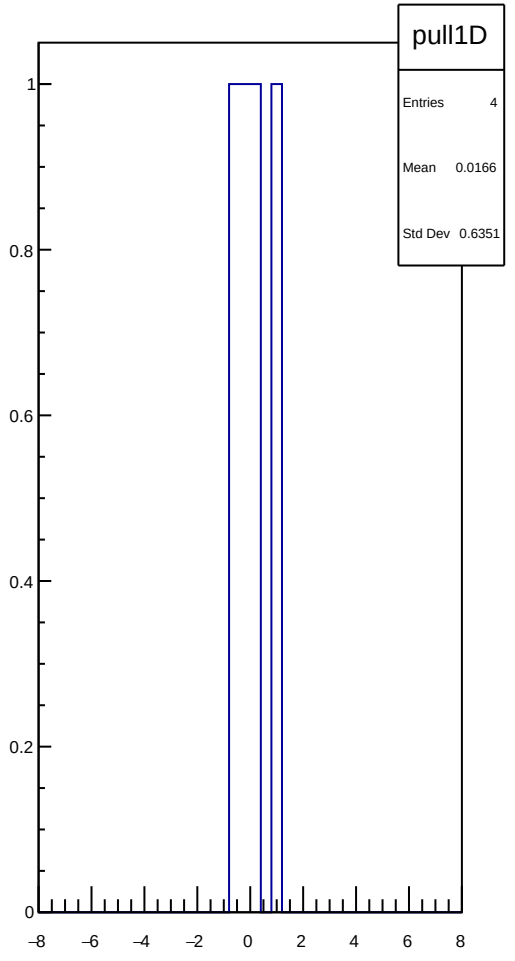

pull1D
Entries 4
Mean −0.02111
Std Dev 0.6526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

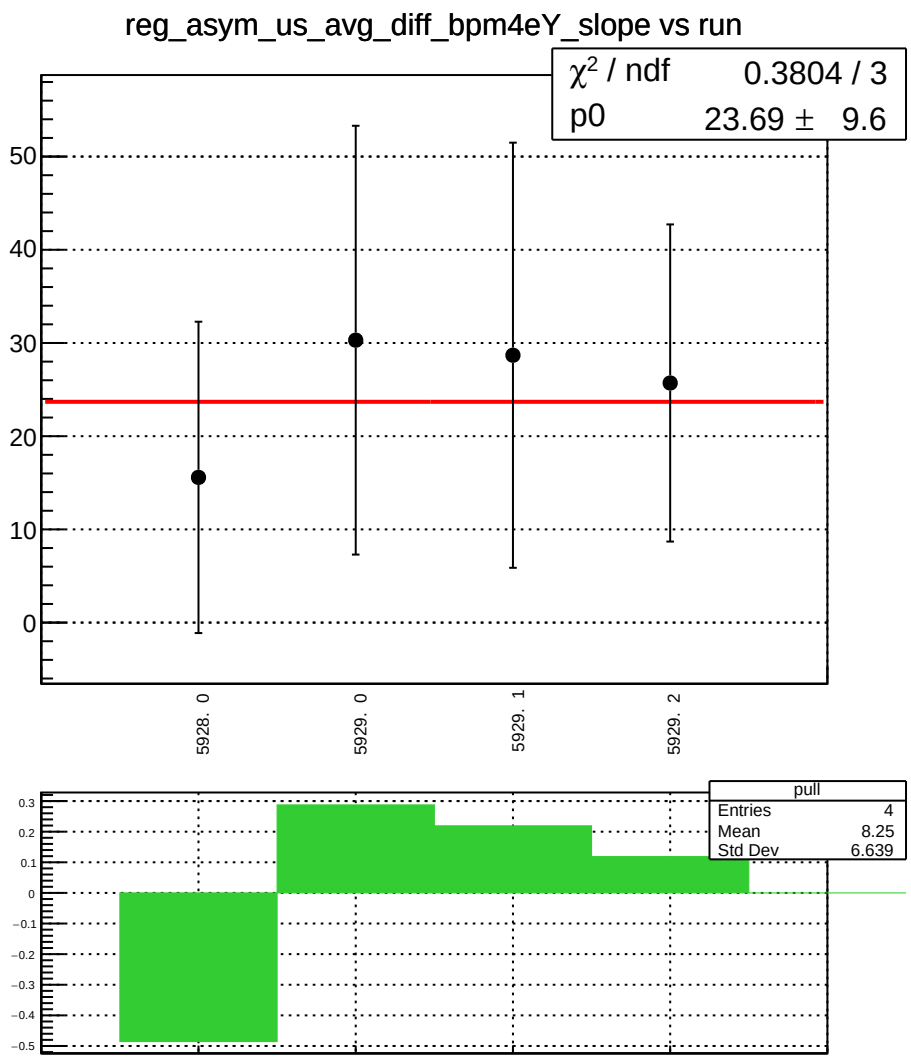

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.505 / 3
p0 −3.439 ± 8.621
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.077
Std Dev 6.435
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

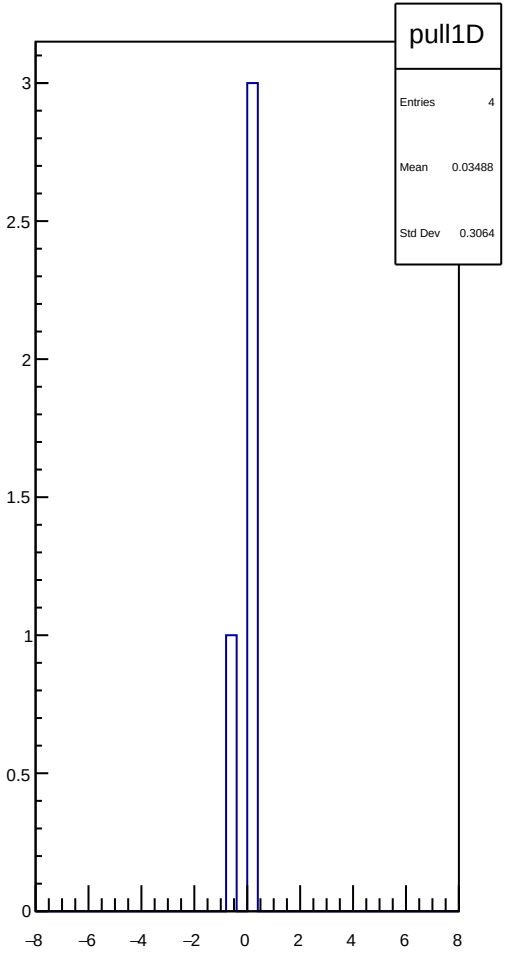

pull1D
Entries 4
Mean −0.04361
Std Dev 0.3526
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

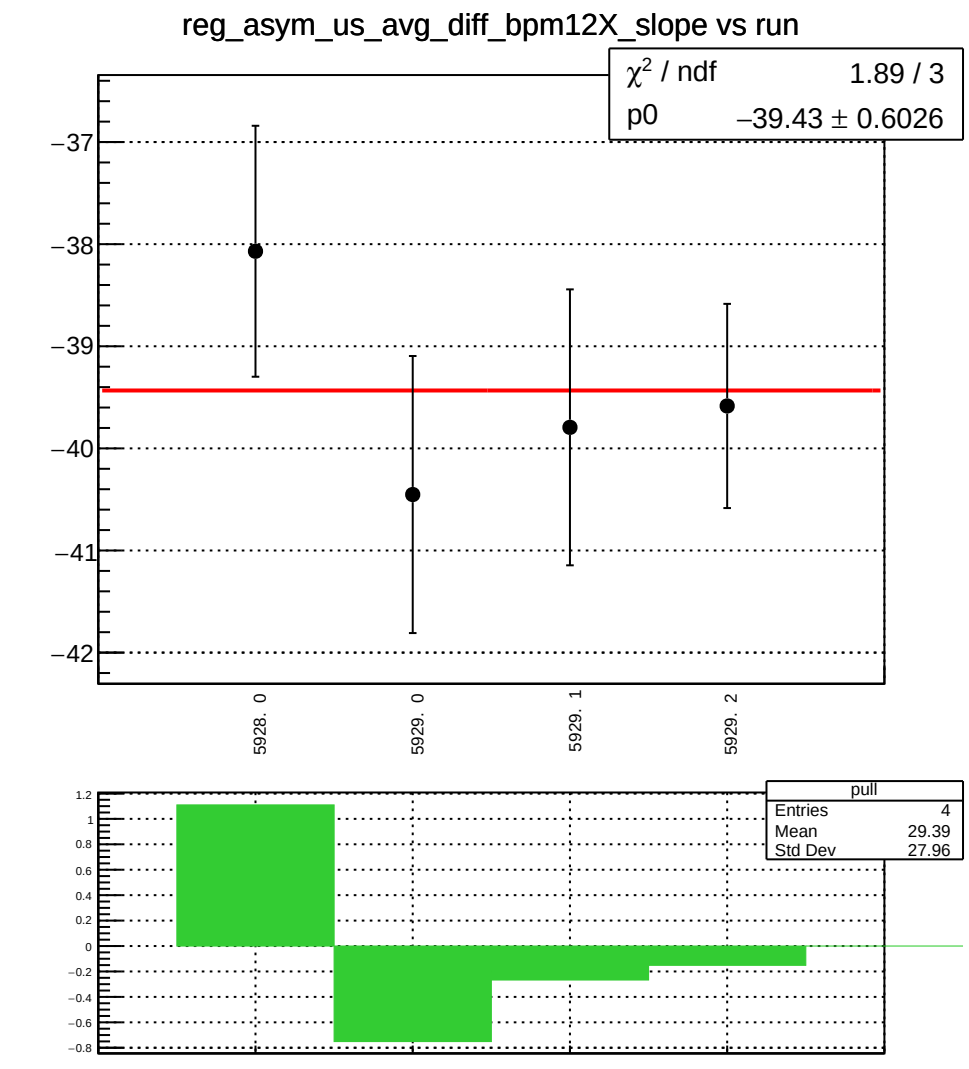

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.614 / 3
p0 137.8 ± 13.17
200
180
160
140
120
100
80
5928. 0
5929. 0
5929. 1
5929. 2

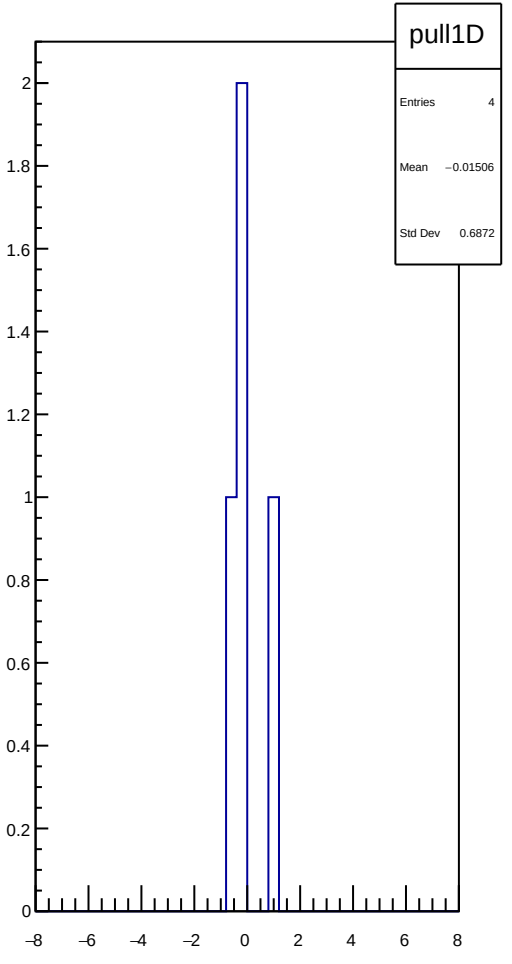

pull
Entries 4
Mean 28.34
Std Dev 26.78
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

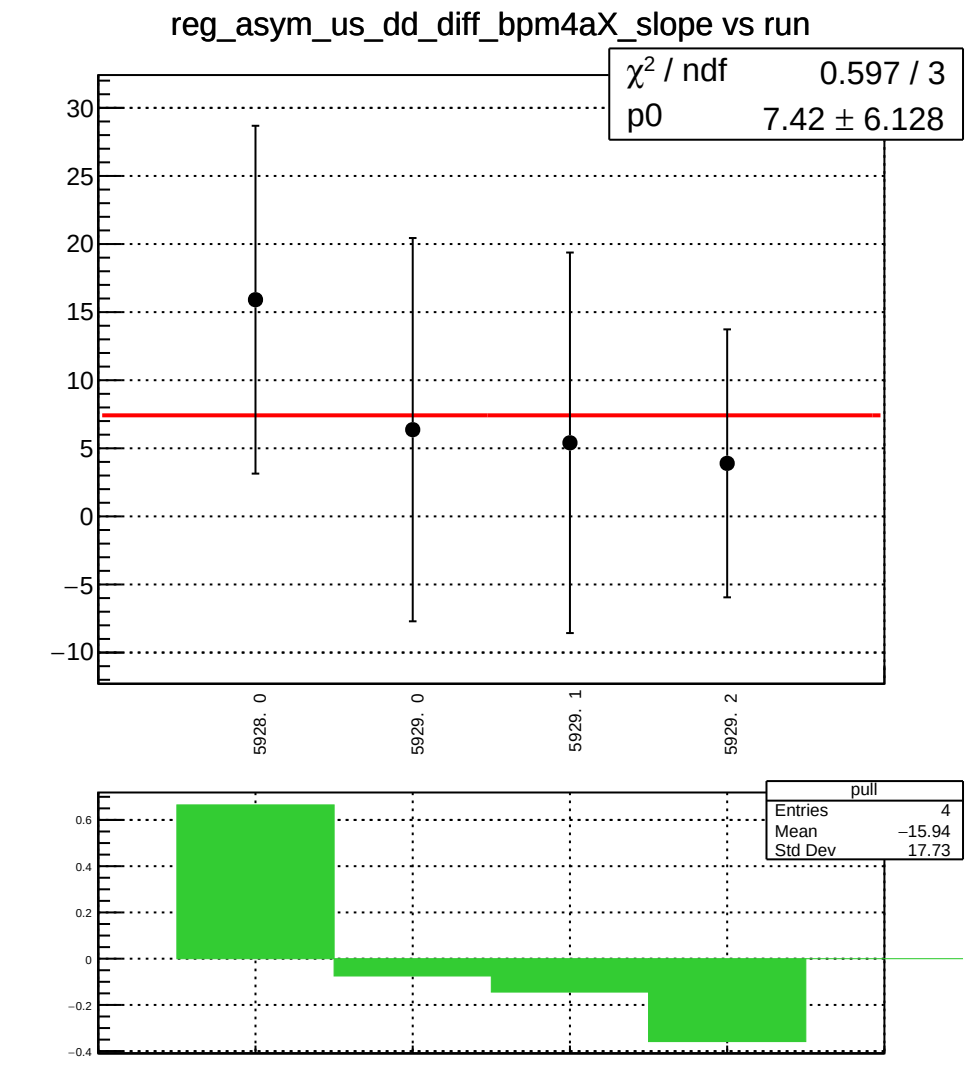

pull1D
Entries 4
Mean 0.0166
Std Dev 0.6351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

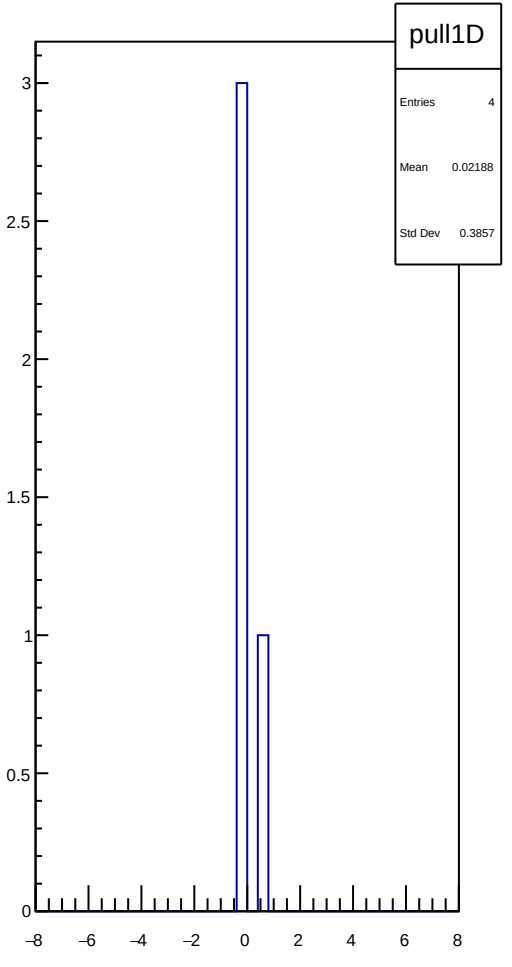

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3804 / 3
p0 23.69 ± 9.6
50
40
30
20
10
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.25
Std Dev 6.639
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

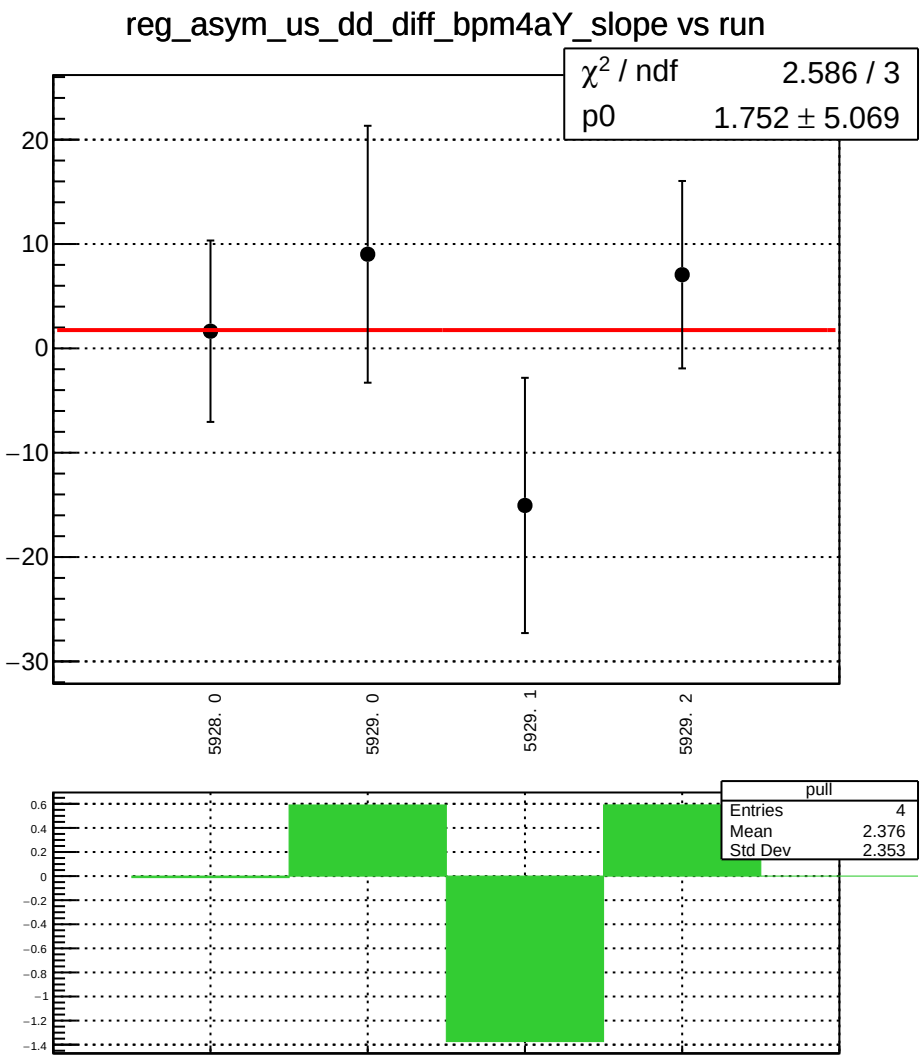

pull1D
Entries 4
Mean 0.03488
Std Dev 0.3064
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

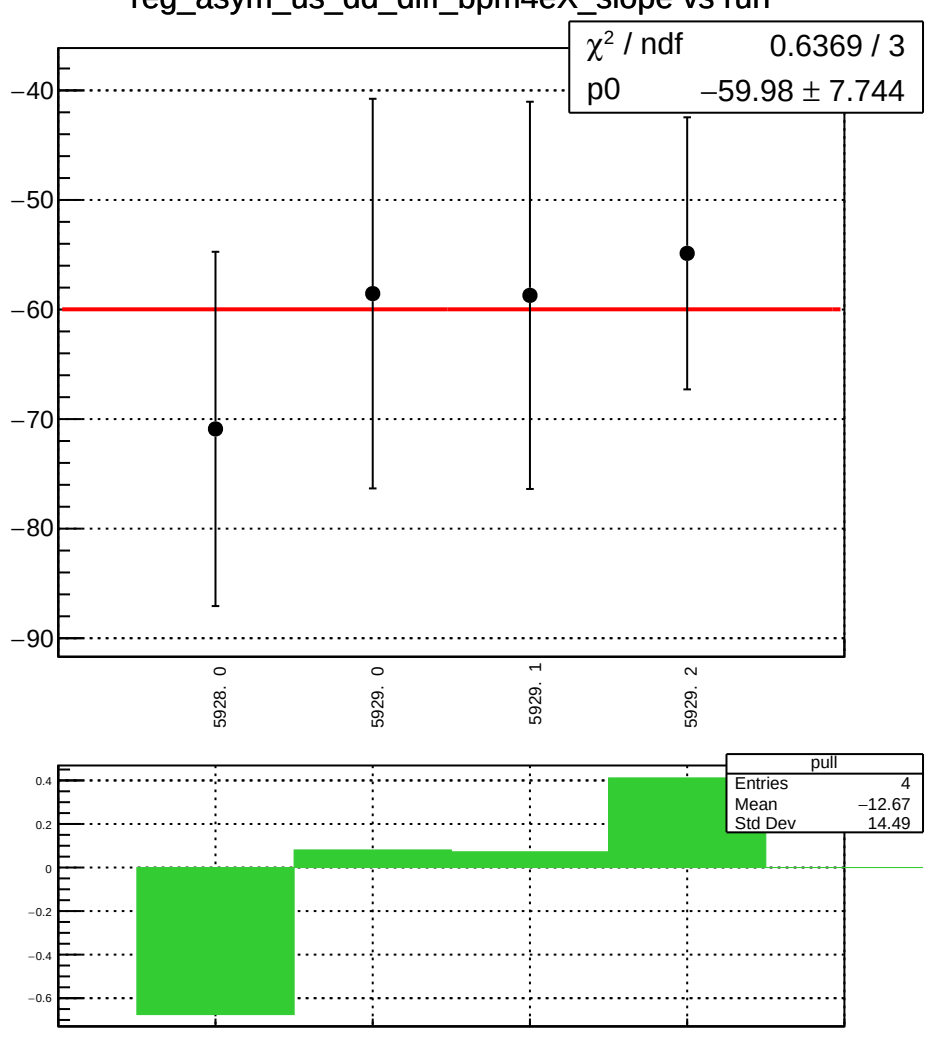

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 1.89 / 3
p0 −39.43 ± 0.6026
−37
−38
−39
−40
−41
−42
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 29.39
Std Dev 27.96
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

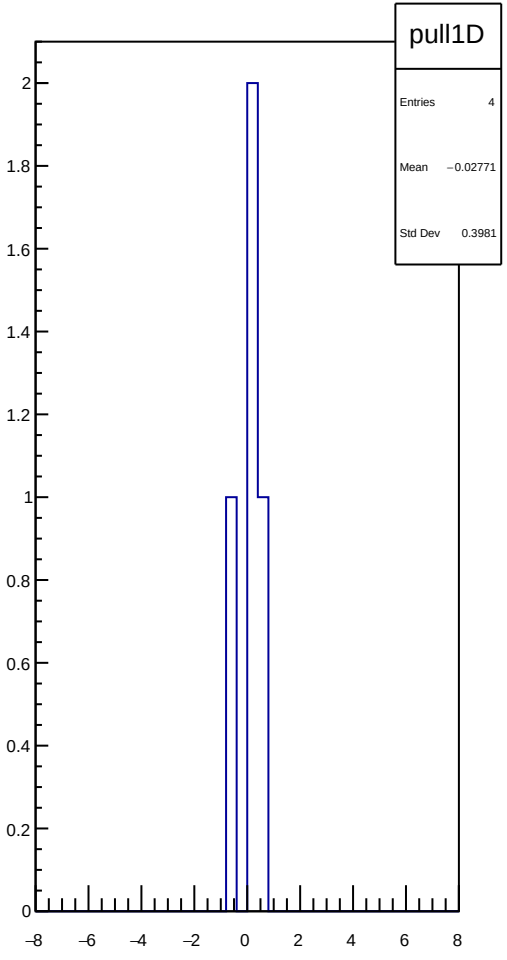

pull1D
Entries 4
Mean −0.01506
Std Dev 0.6872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

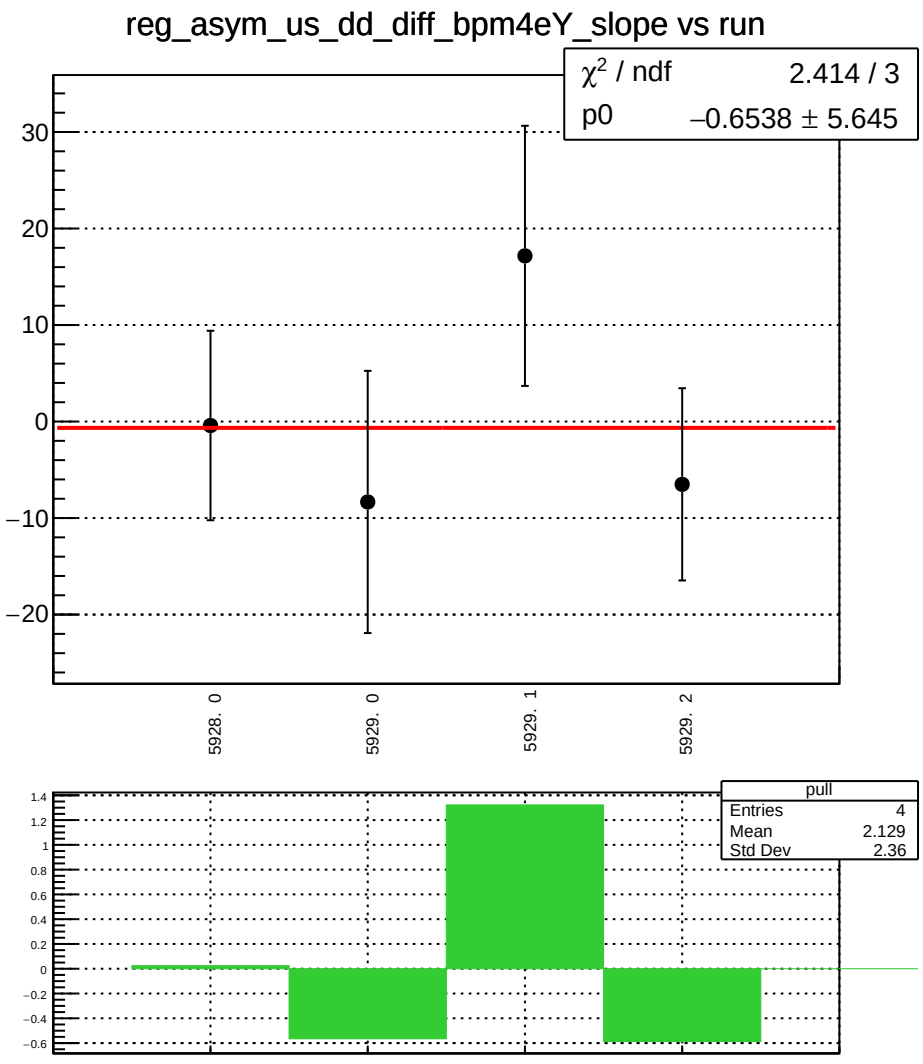

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.597 / 3
p0 7.42 ± 6.128
30
25
20
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −15.94
Std Dev 17.73
0.6
0.4
0.2
0
−0.2
−0.4

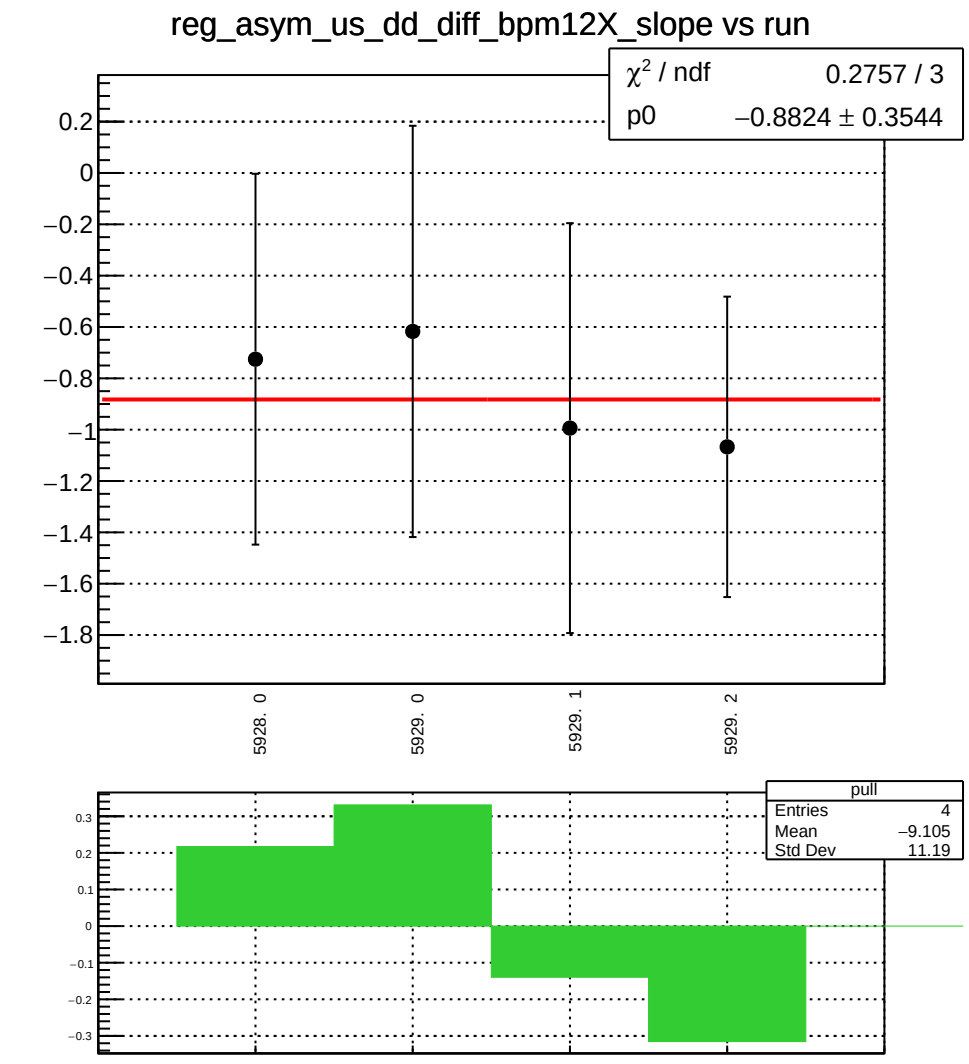

pull1D
Entries 4
Mean 0.02188
Std Dev 0.3857
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

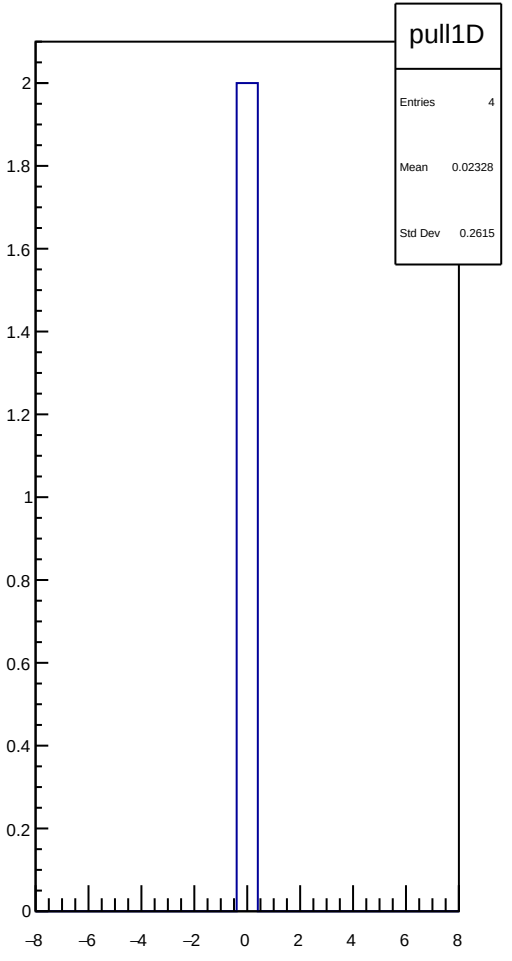

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.586 / 3
p0 1.752 ± 5.069
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.376
Std Dev 2.353
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 4
Mean −0.05123
Std Dev 0.8024
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

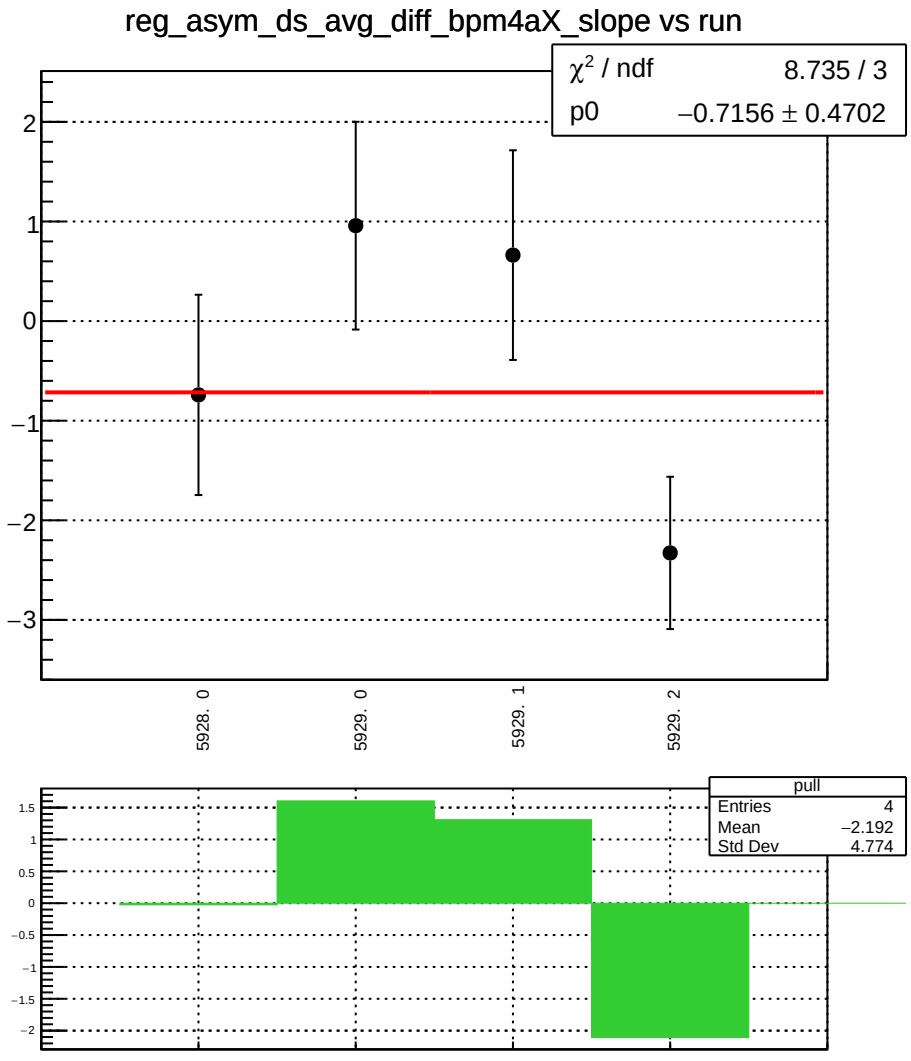

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6369 / 3
p0 −59.98 ± 7.744
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.67
Std Dev 14.49
0.4
0.2
0
−0.2
−0.4
−0.6

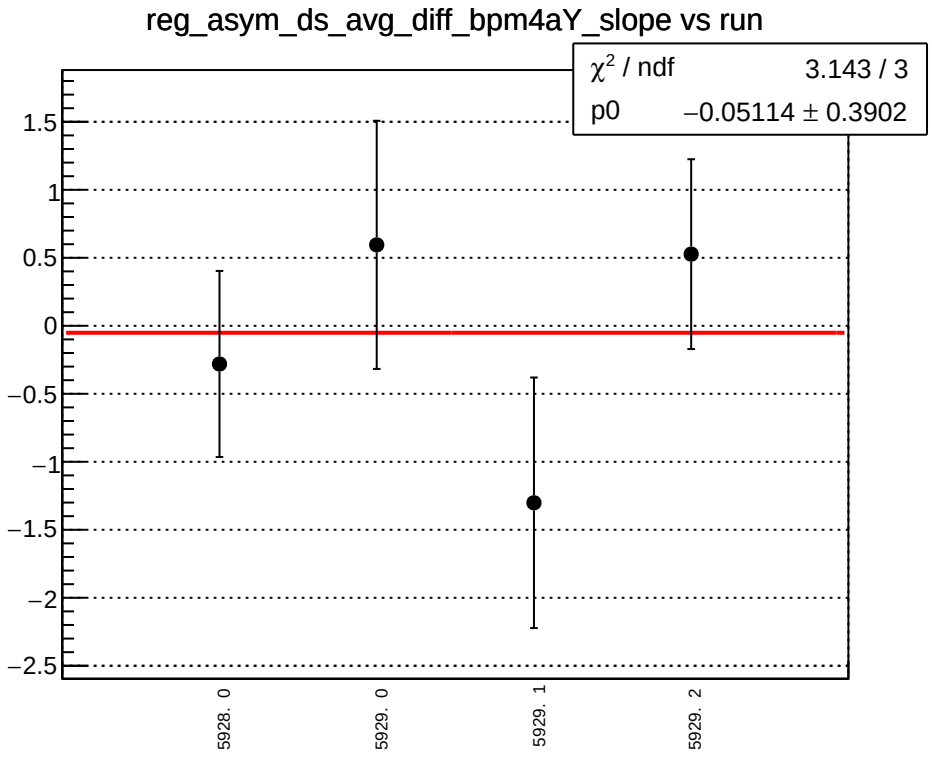

pull1D
Entries 4
Mean −0.02771
Std Dev 0.3981
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

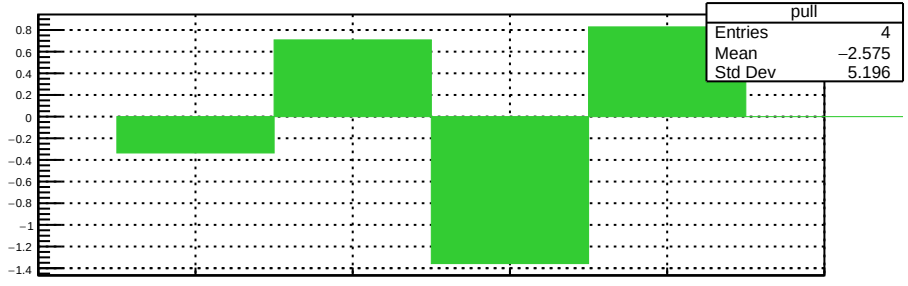

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.414 / 3
p0 −0.6538 ± 5.645
30
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.129
Std Dev 2.36
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.04852
Std Dev 0.7753
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

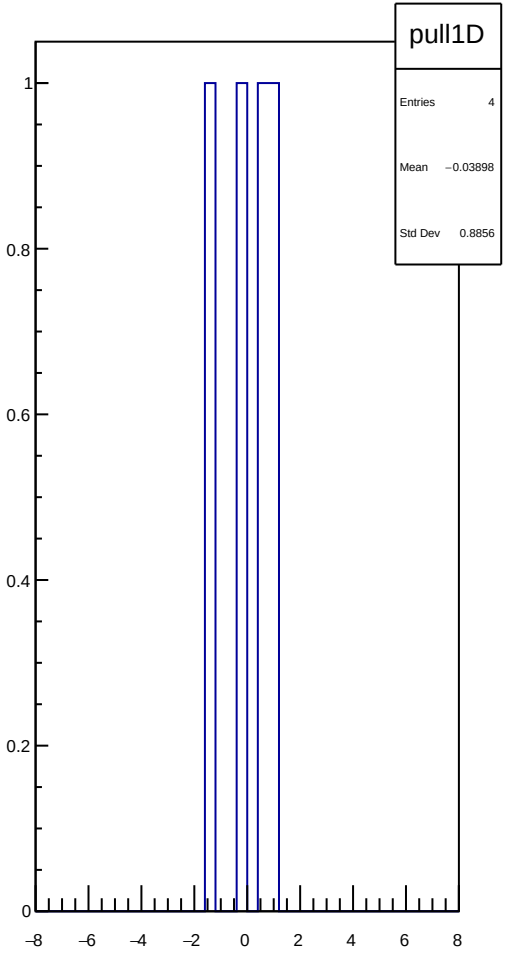

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2757 / 3
p0 −0.8824 ± 0.3544
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.105
Std Dev 11.19
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

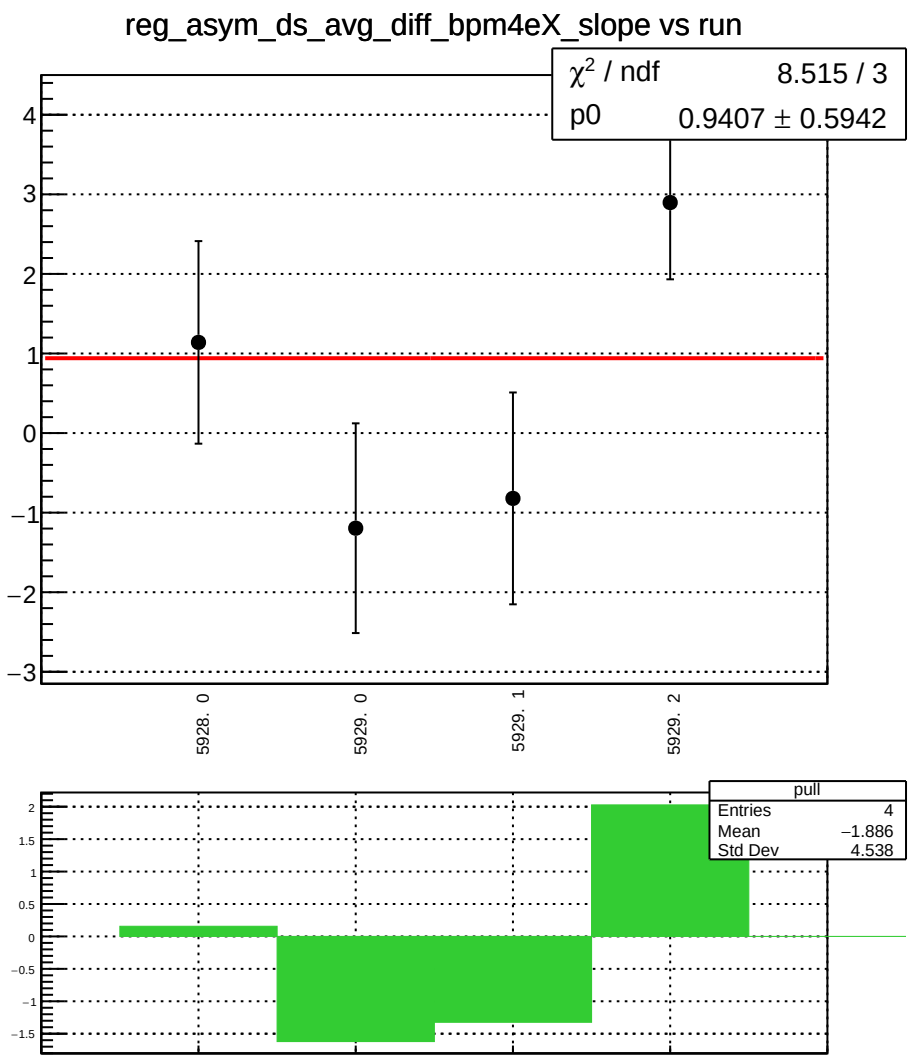

pull1D
Entries 4
Mean 0.02328
Std Dev 0.2615
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

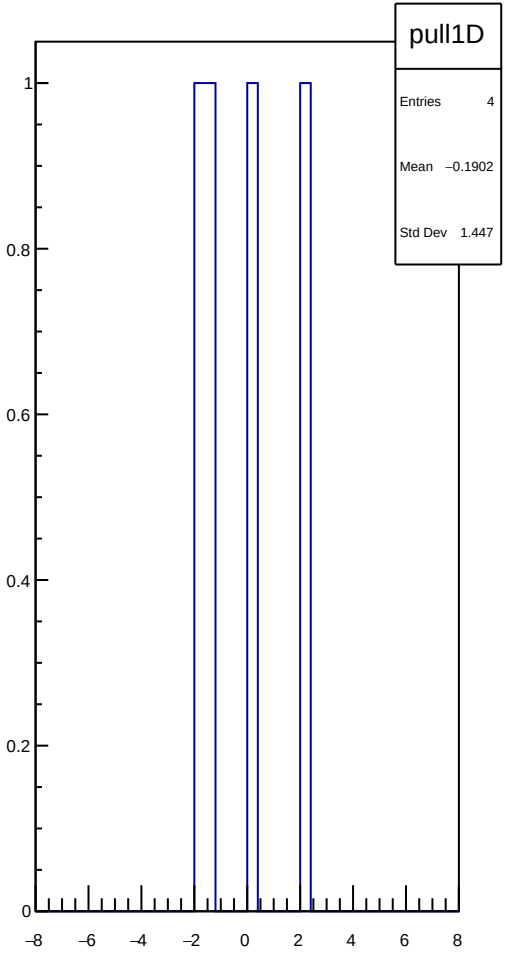

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.735 / 3
p0 −0.7156 ± 0.4702
2
1
0
−1
−2
−3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.192
Std Dev 4.774
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 4
Mean 0.1952
Std Dev 1.465
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

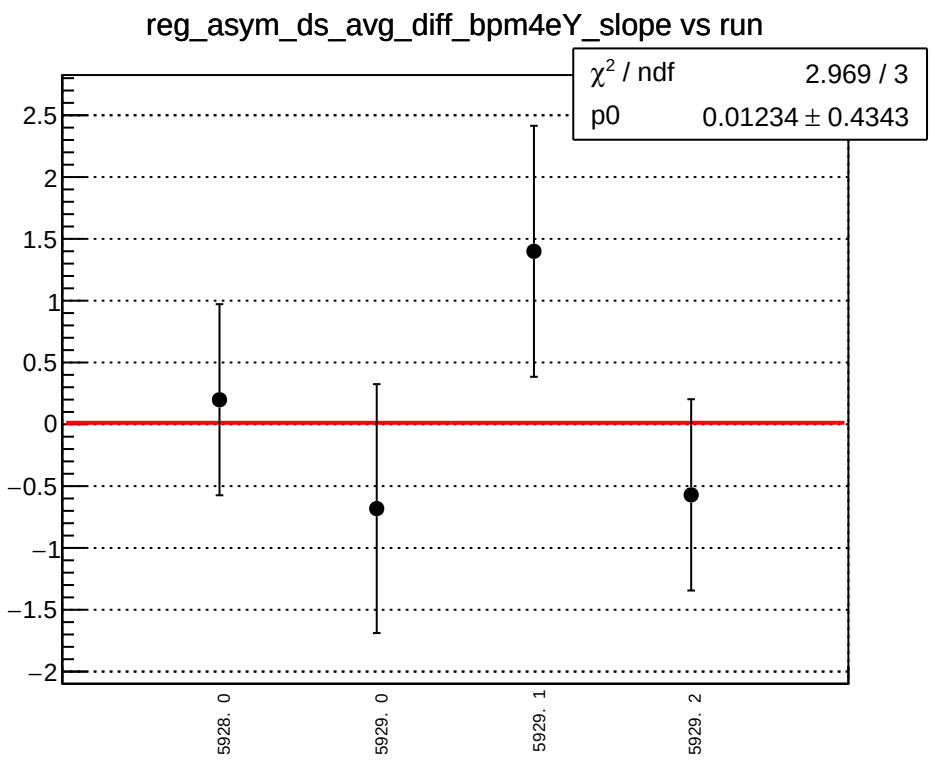

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.143 / 3
p0 −0.05114 ± 0.3902
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5928. 0
5929. 0
5929. 1
5929. 2

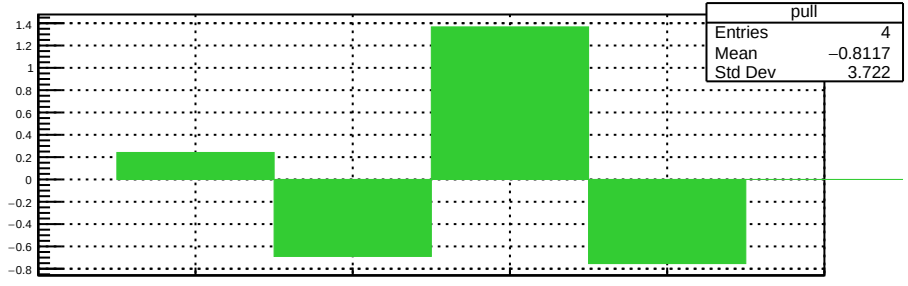

pull
Entries 4
Mean −2.575
Std Dev 5.196
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

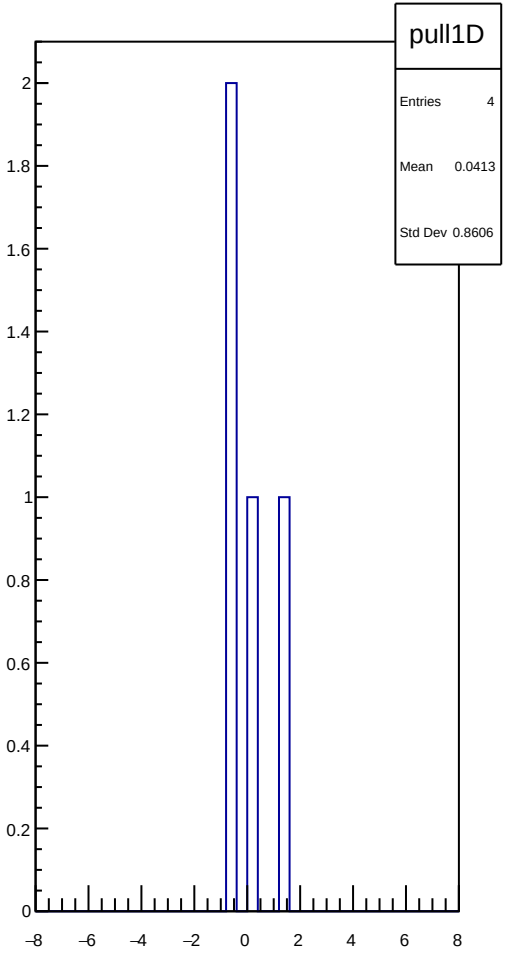

pull1D
Entries 4
Mean −0.03898
Std Dev 0.8856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

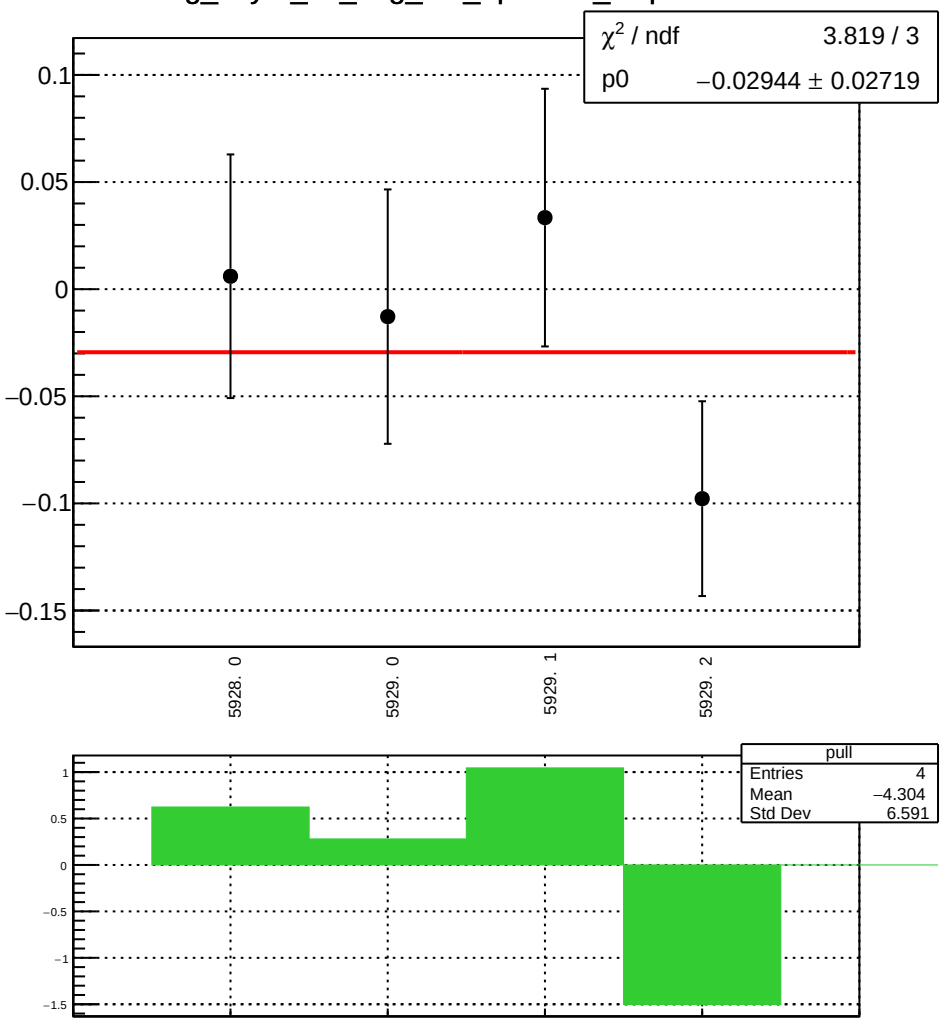

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.515 / 3
p0 0.9407 ± 0.5942
4
3
2
1
0
−1
−2
−3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.886
Std Dev 4.538
2
1.5
1
0.5
0
−0.5
−1
−1.5

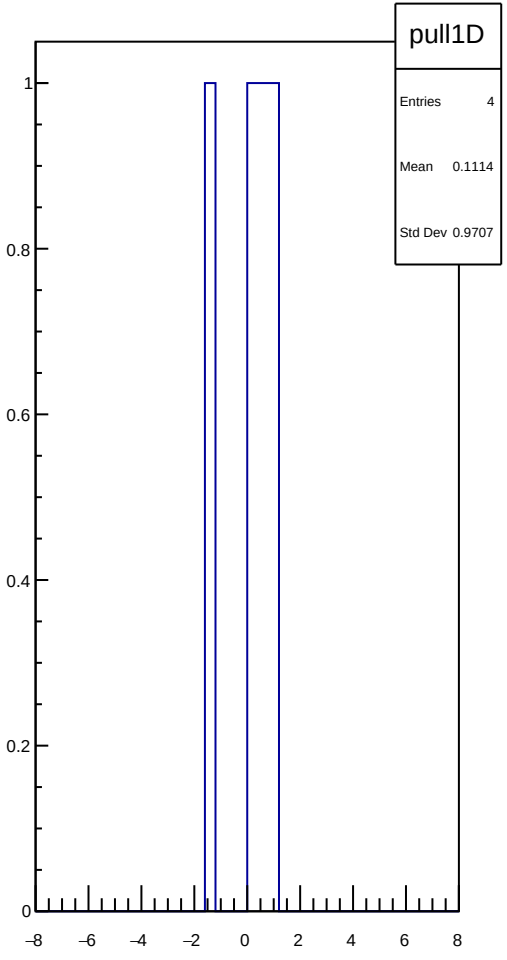

pull1D
Entries 4
Mean −0.1902
Std Dev 1.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

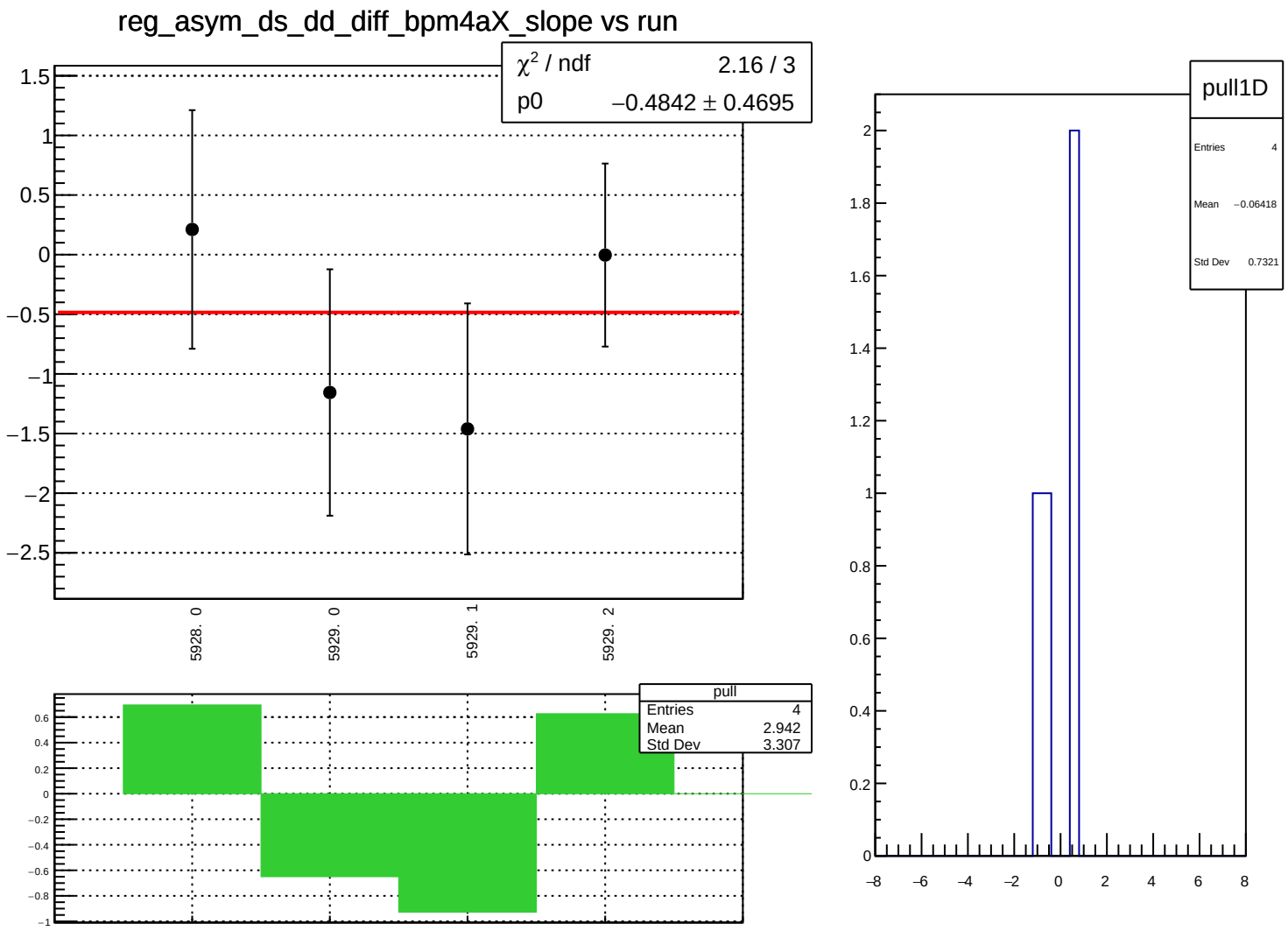

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.969 / 3
p0 0.01234 ± 0.4343
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5928. 0
5929. 0
5929. 1
5929. 2

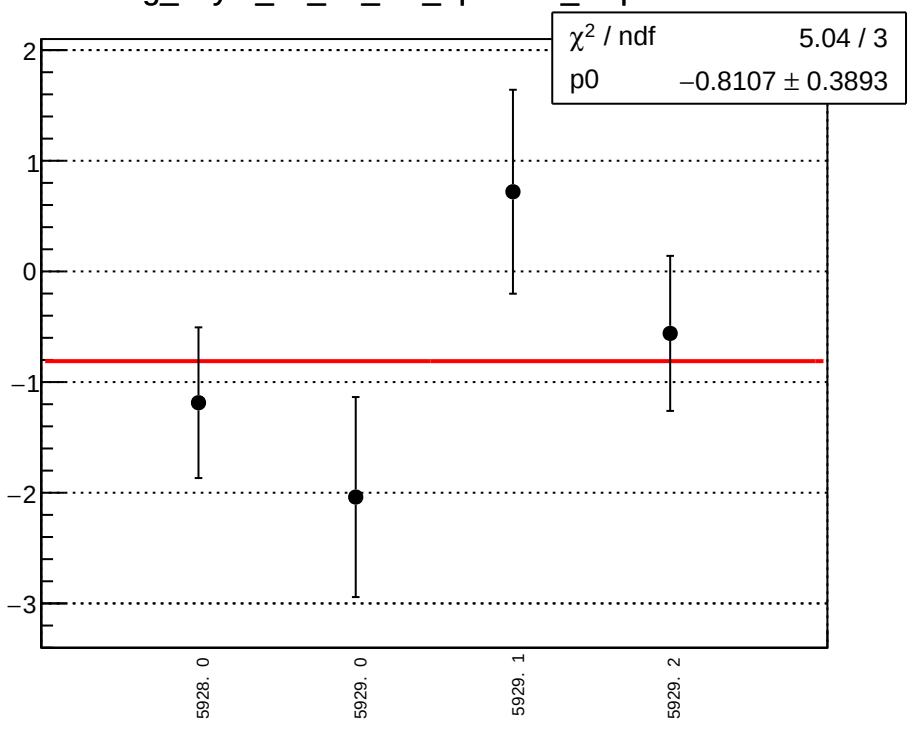

pull
Entries 4
Mean −0.8117
Std Dev 3.722
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

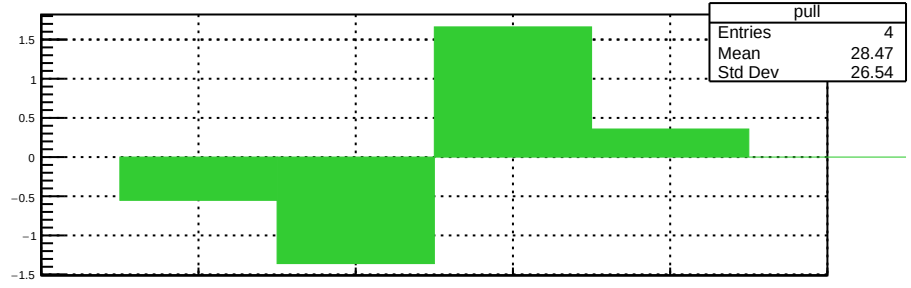

pull1D
Entries 4
Mean 0.0413
Std Dev 0.8606
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

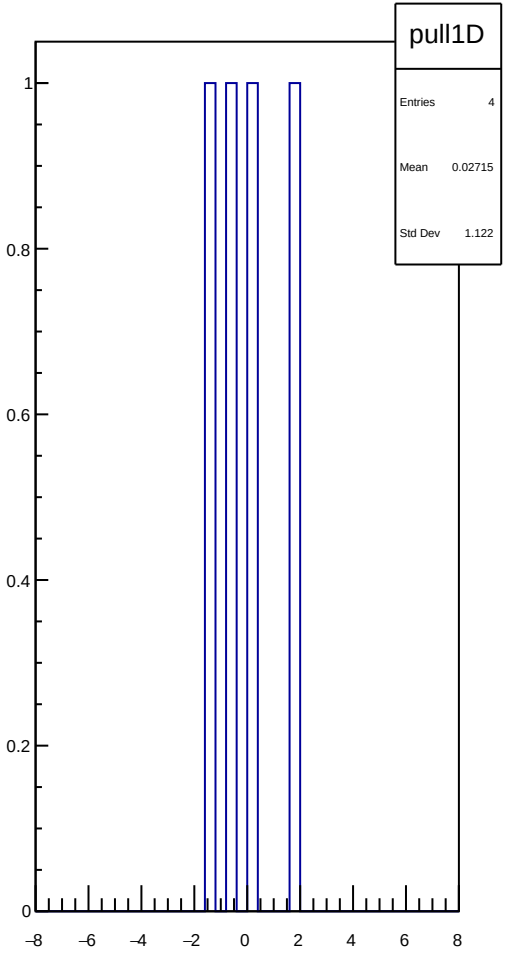

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 3.819 / 3
p0 −0.02944 ± 0.02719
0.1
0.05
0
−0.05
−0.1
−0.15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.304
Std Dev 6.591
1
0.5
0
−0.5
−1
−1.5

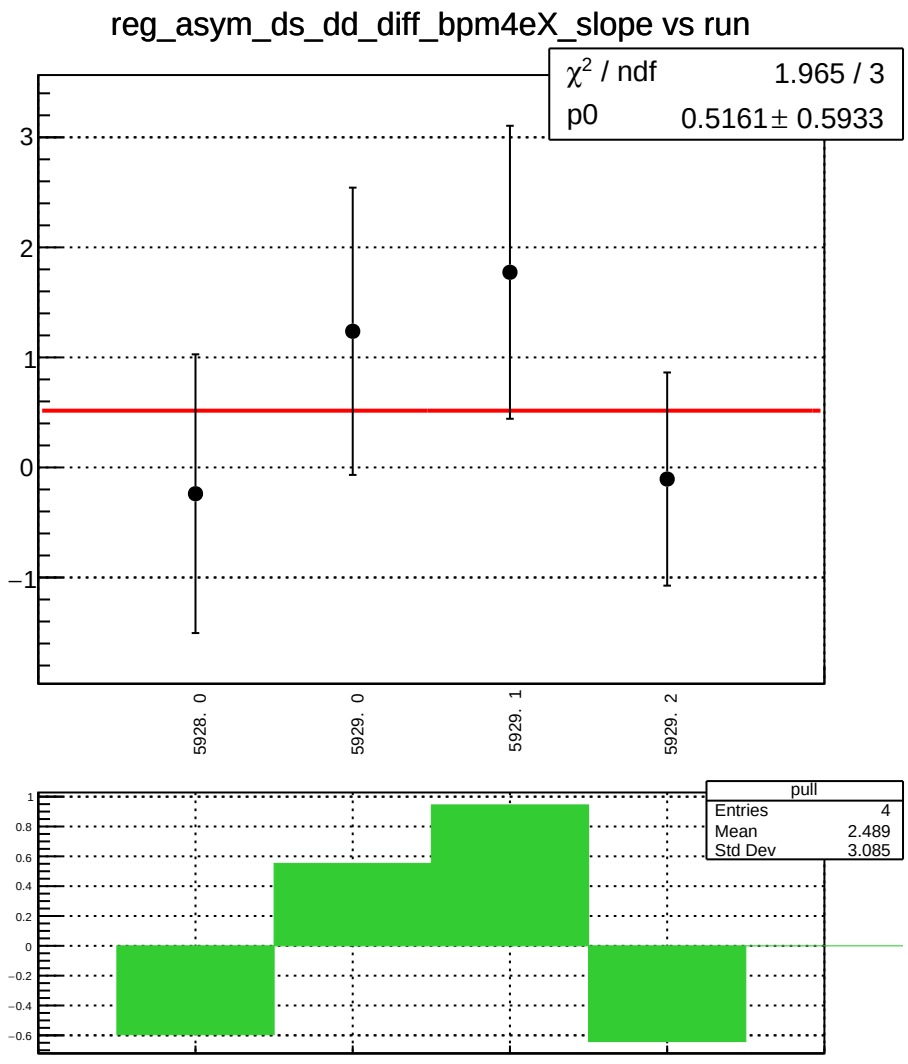

pull1D
Entries 4
Mean 0.1114
Std Dev 0.9707
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

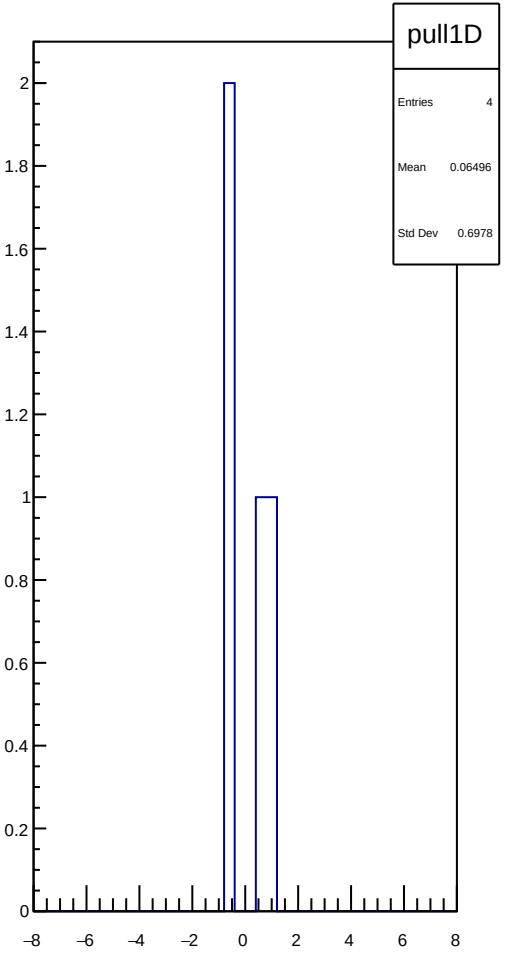

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.16 / 3
p0 −0.4842 ± 0.4695
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.942
Std Dev 3.307
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean −0.06418
Std Dev 0.7321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

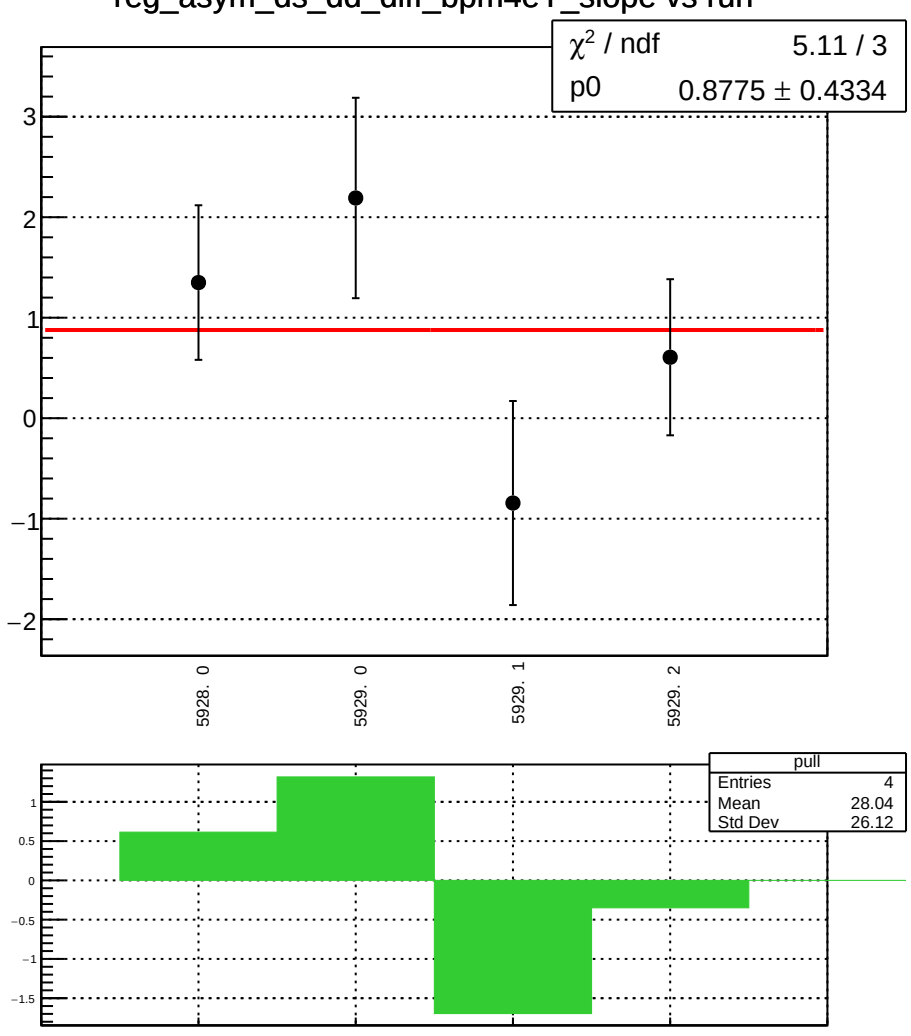

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.04 / 3
p0 −0.8107 ± 0.3893
2
1
0
−1
−2
−3
5928. 0
5929. 0
5929. 1
5929. 2


pull
Entries 4
Mean 28.47
Std Dev 26.54
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 4
Mean 0.02715
Std Dev 1.122
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.965 / 3
p0 0.5161 ± 0.5933
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.489
Std Dev 3.085
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 4
Mean 0.06496
Std Dev 0.6978
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


reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.11 / 3
p0 0.8775 ± 0.4334
3
2
1
0
−1
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 28.04
Std Dev 26.12
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean −0.02834
Std Dev 1.13
1
0.8
0.6
0.4
0.2
0
−8
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−4
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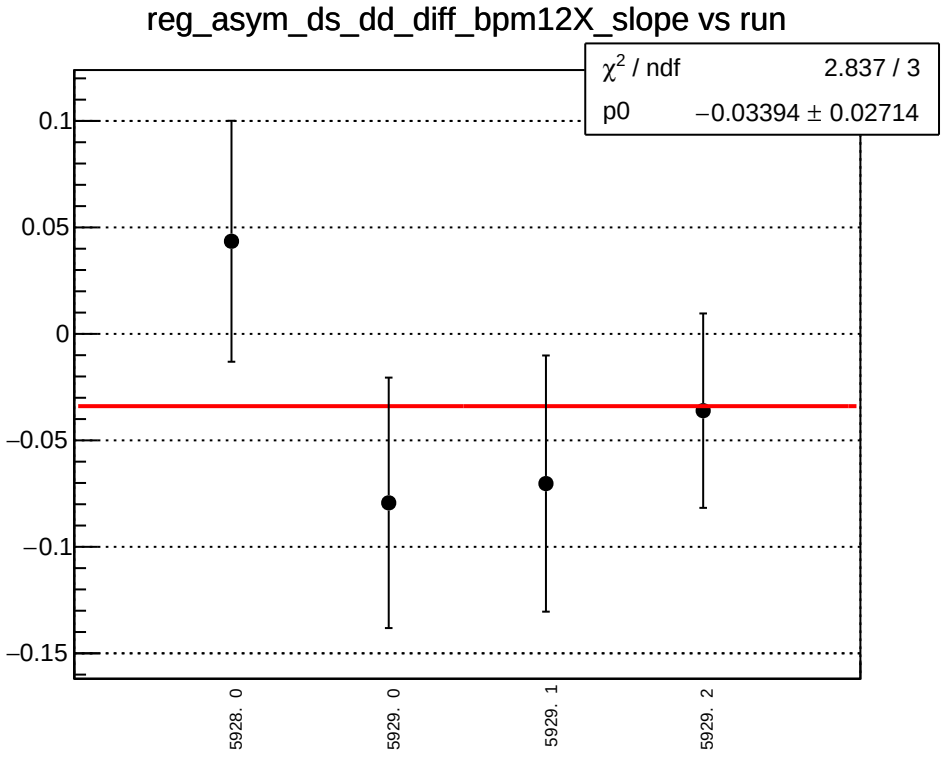
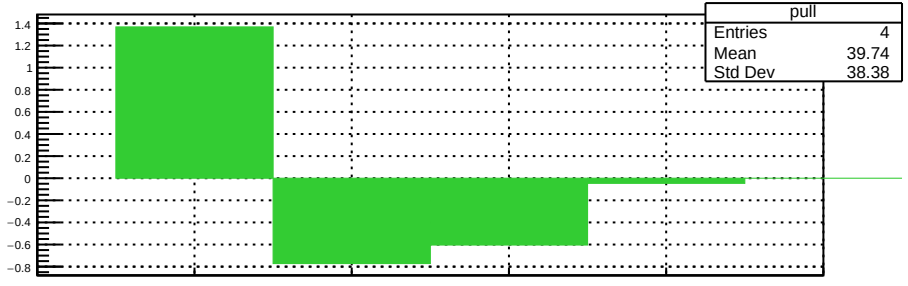
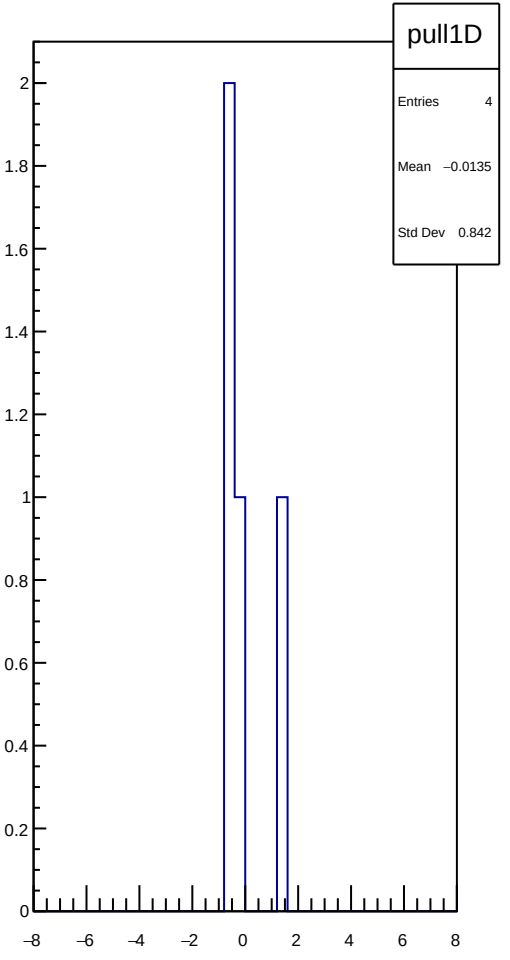
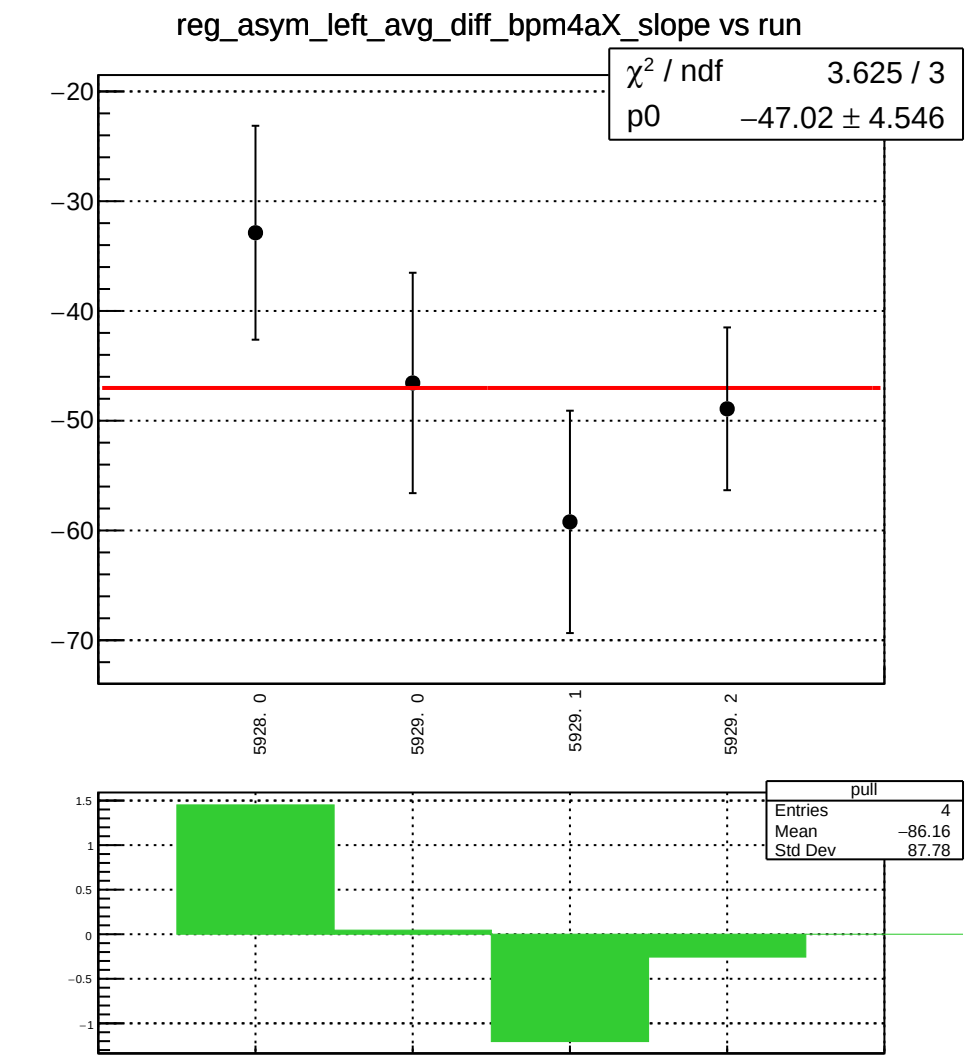
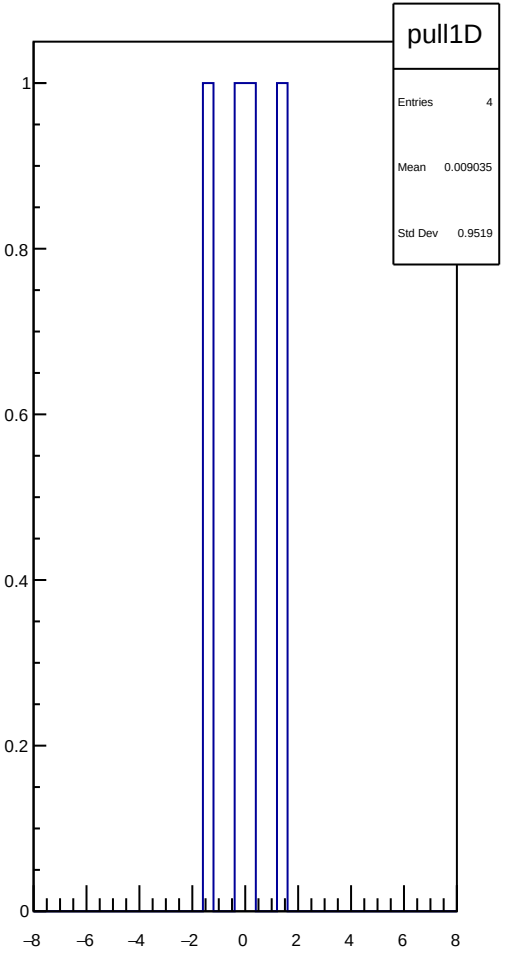
0
2
4
6
8

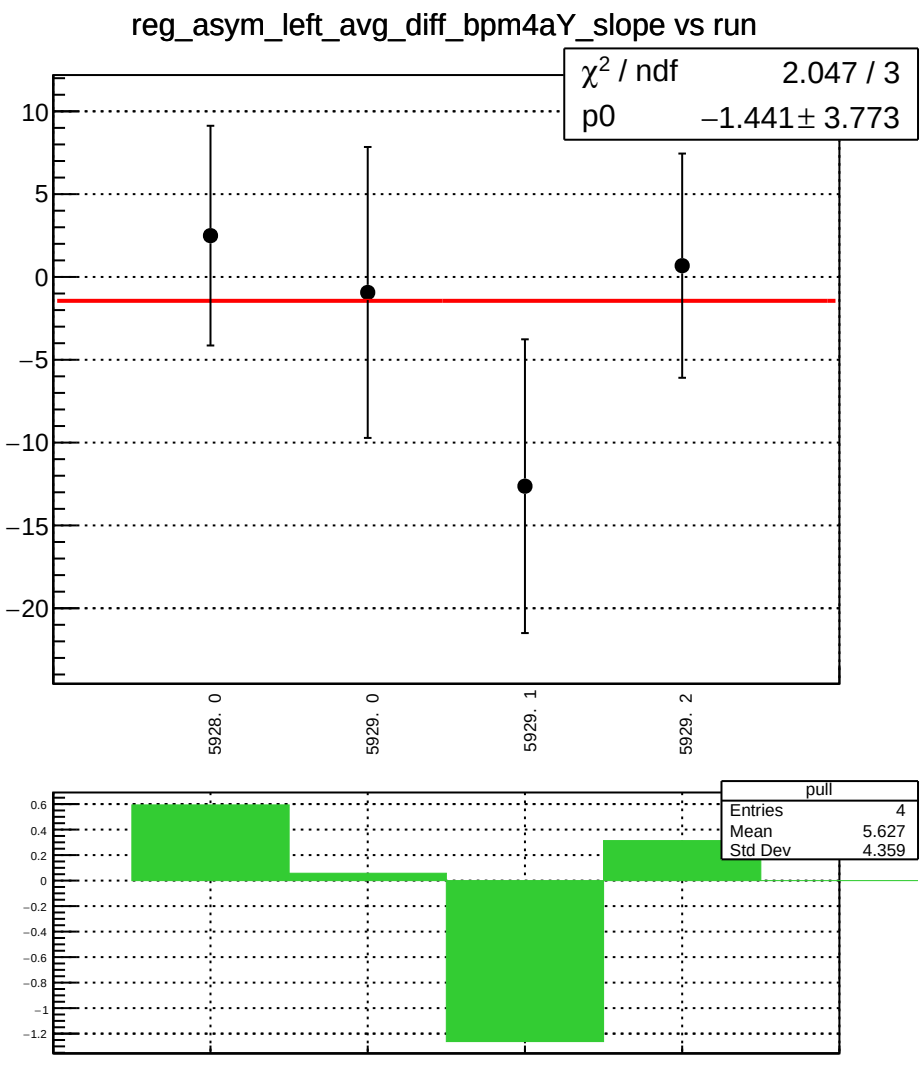

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 2.837 / 3
p0 −0.03394 ± 0.02714
0.1
0.05
0
−0.05
−0.1
−0.15
5928. 0
5929. 0
5929. 1
5929. 2

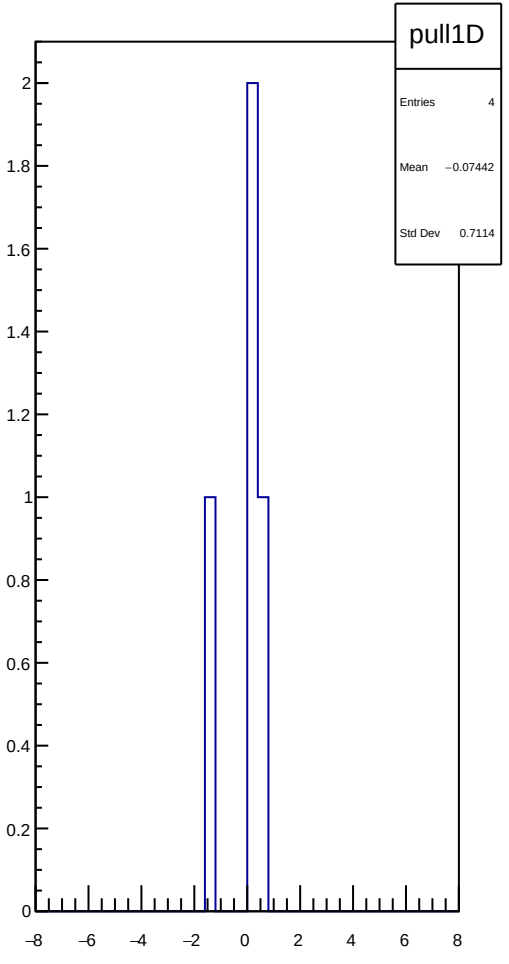

pull
Entries 4
Mean 39.74
Std Dev 38.38
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

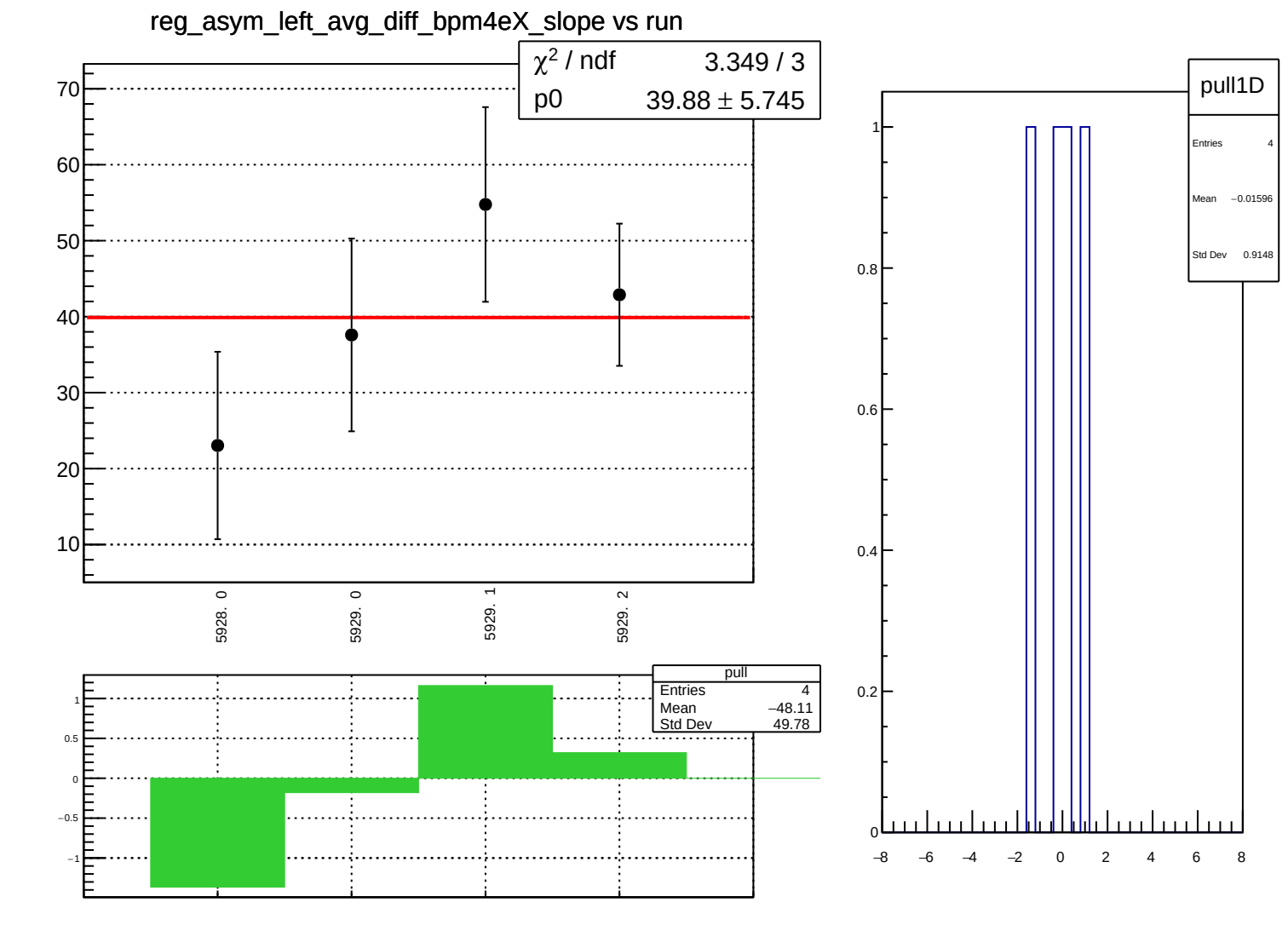

pull1D
Entries 4
Mean −0.0135
Std Dev 0.842
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

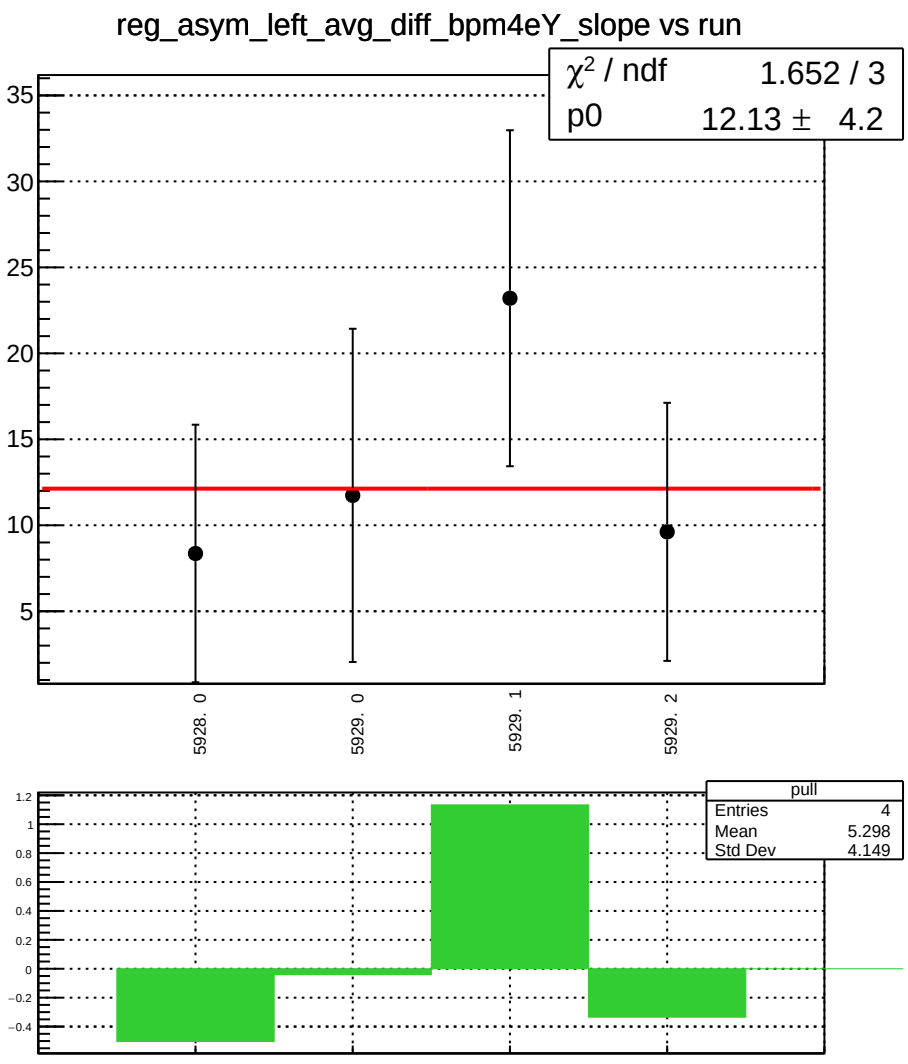

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.625 / 3
p0 −47.02 ± 4.546
−20
−30
−40
−50
−60
−70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −86.16
Std Dev 87.78
1.5
1
0.5
0
−0.5
−1

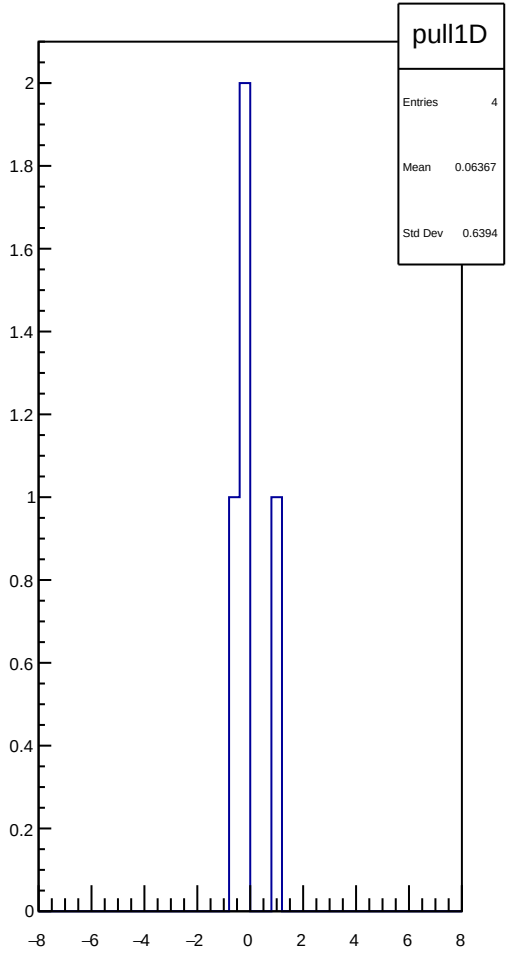

pull1D
Entries 4
Mean 0.009035
Std Dev 0.9519
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

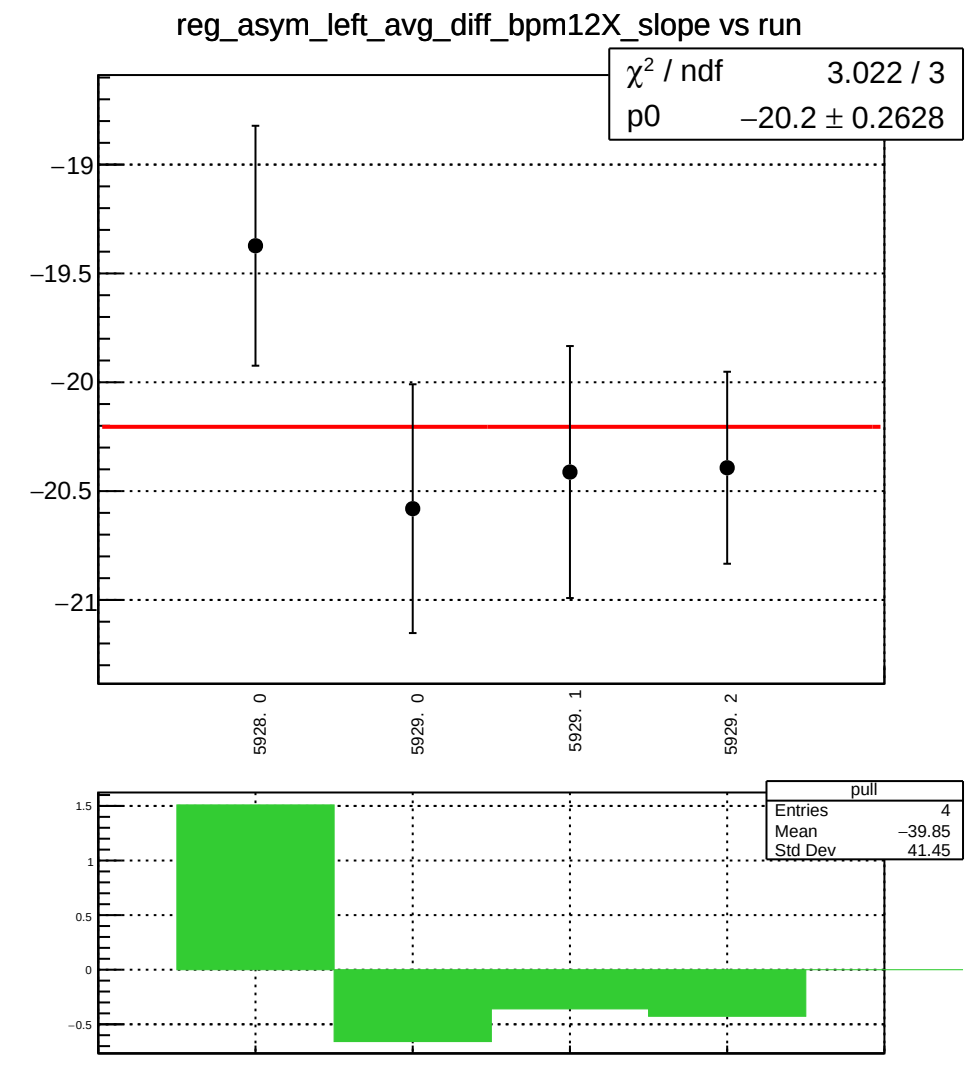

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.047 / 3
p0 −1.441± 3.773
10
5
0
−5
−10
−15
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.627
Std Dev 4.359
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

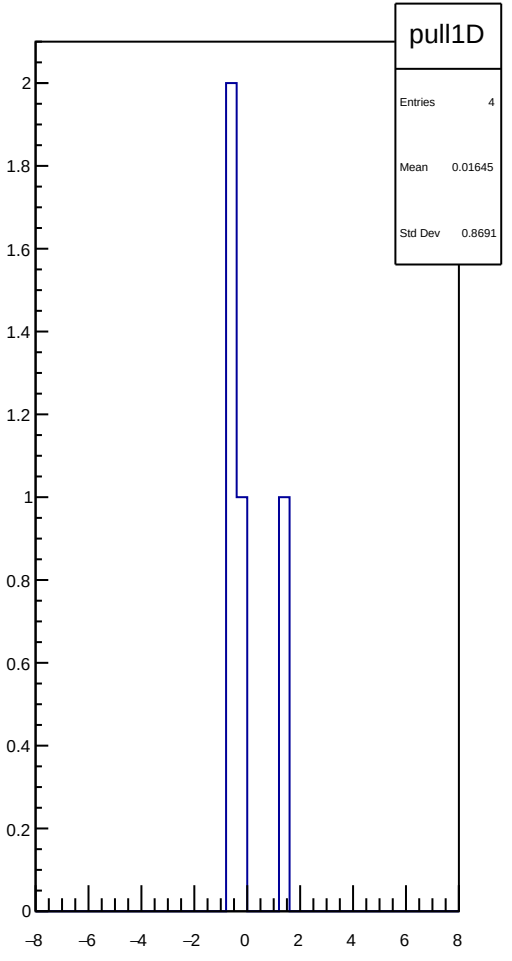

pull1D
Entries 4
Mean −0.07442
Std Dev 0.7114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

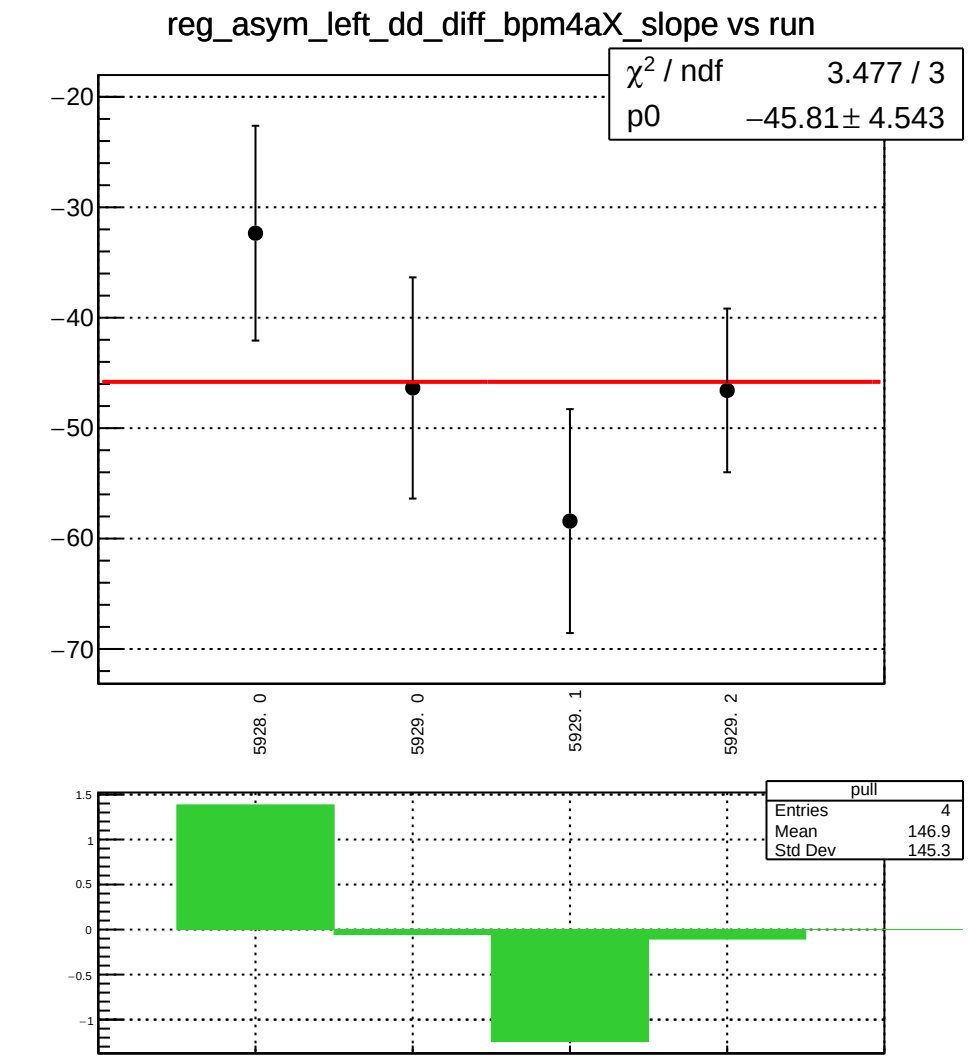

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.349 / 3
p0 39.88 ± 5.745
70
60
50
40
30
20
10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −48.11
Std Dev 49.78
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.01596
Std Dev 0.9148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

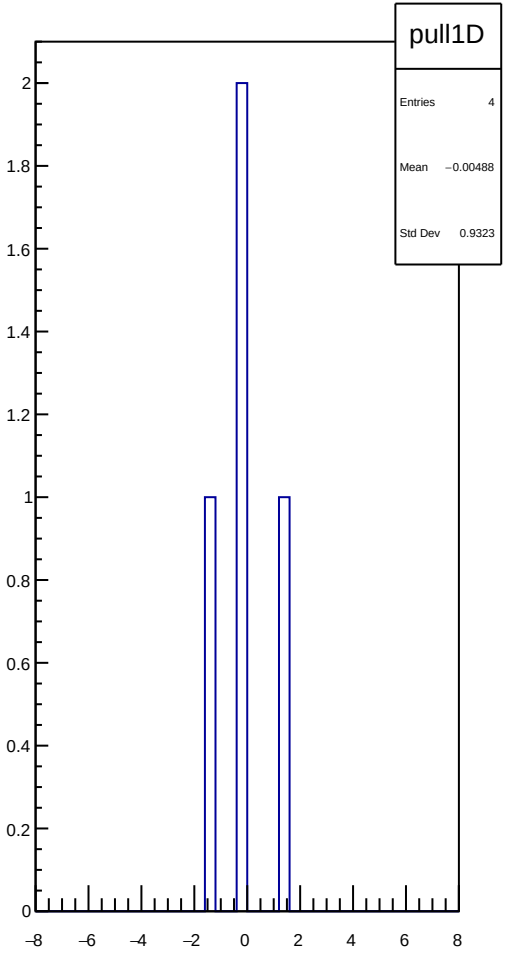

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.652 / 3
p0 12.13 ± 4.2
35
30
25
20
15
10
5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.298
Std Dev 4.149
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

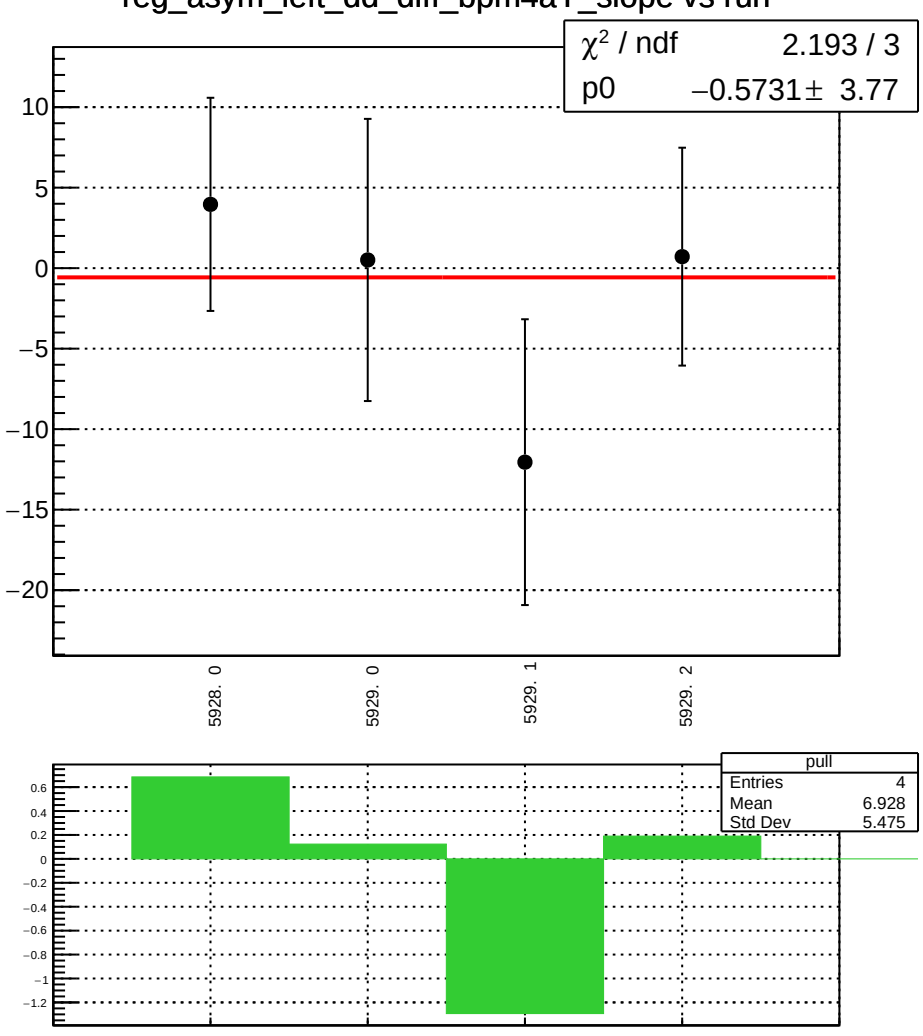

pull1D
Entries 4
Mean 0.06367
Std Dev 0.6394
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

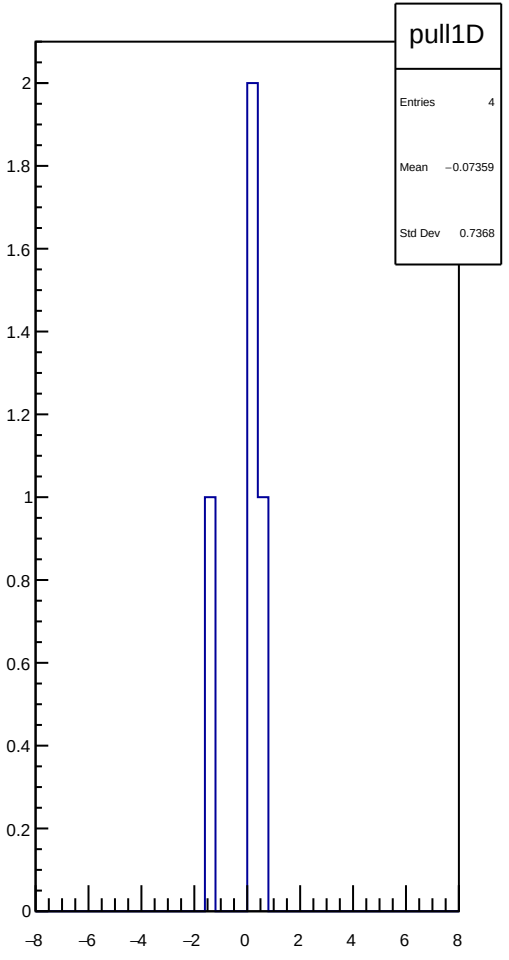

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 3.022 / 3
p0 −20.2 ± 0.2628
−19
−19.5
−20
−20.5
−21
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −39.85
Std Dev 41.45
1.5
1
0.5
0
−0.5

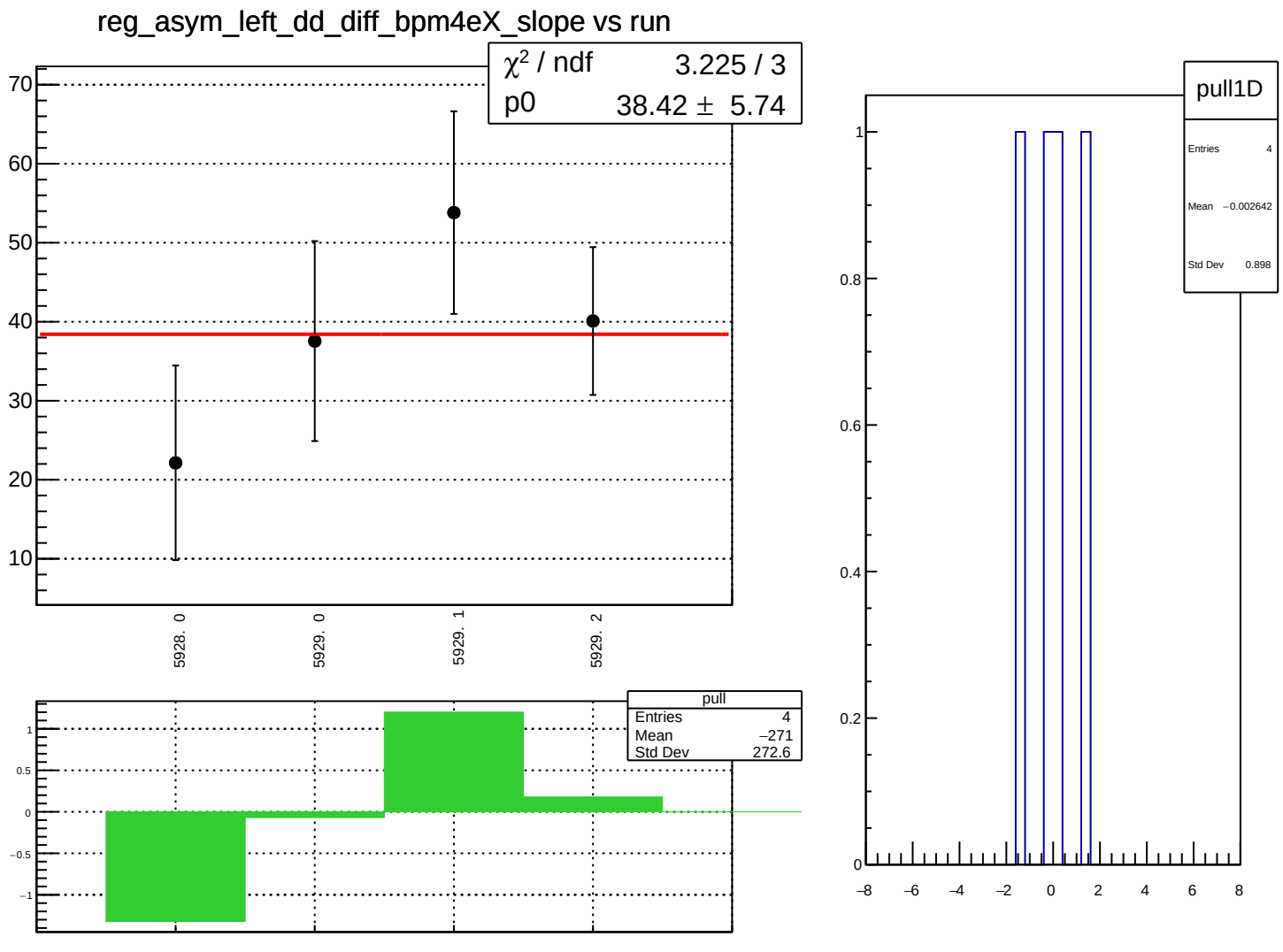

pull1D
Entries 4
Mean 0.01645
Std Dev 0.8691
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

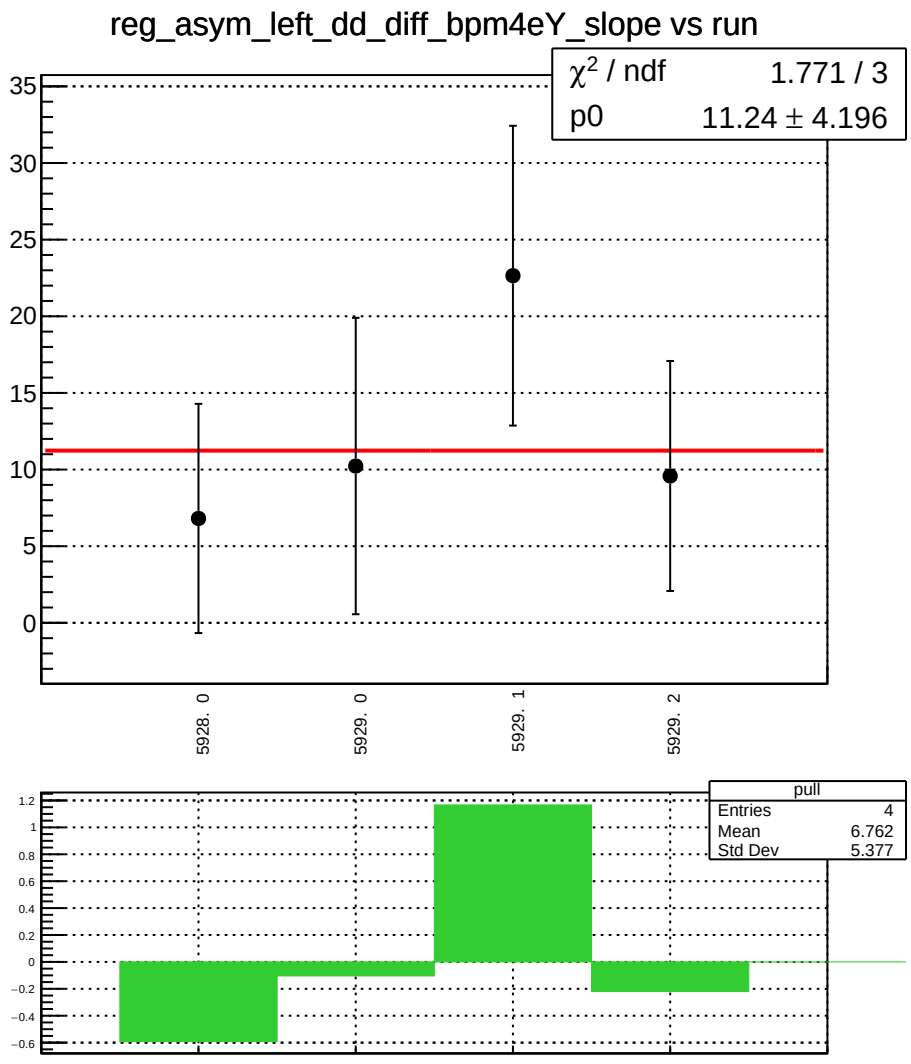

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.477 / 3
p0 −45.81 ± 4.543
−20
−30
−40
−50
−60
−70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 146.9
Std Dev 145.3
1.5
1
0.5
0
−0.5
−1

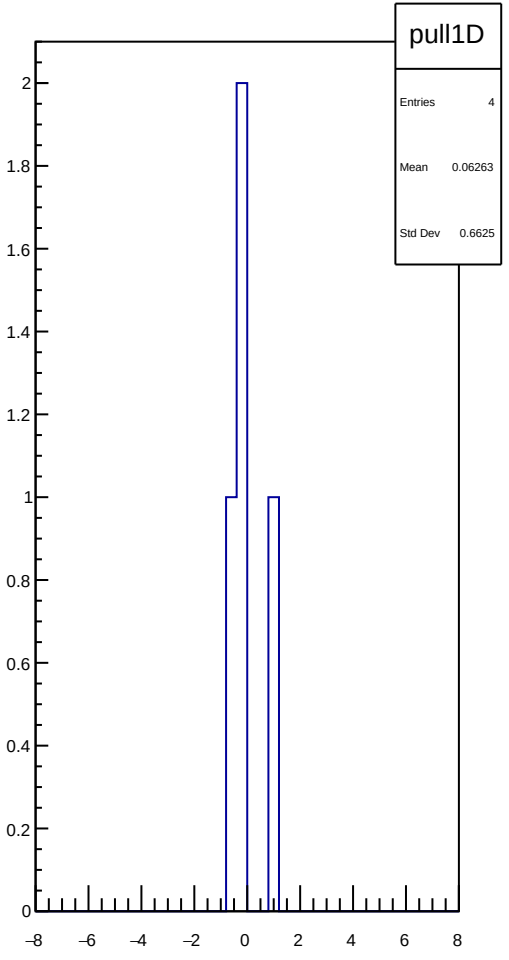

pull1D
Entries 4
Mean −0.00488
Std Dev 0.9323
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

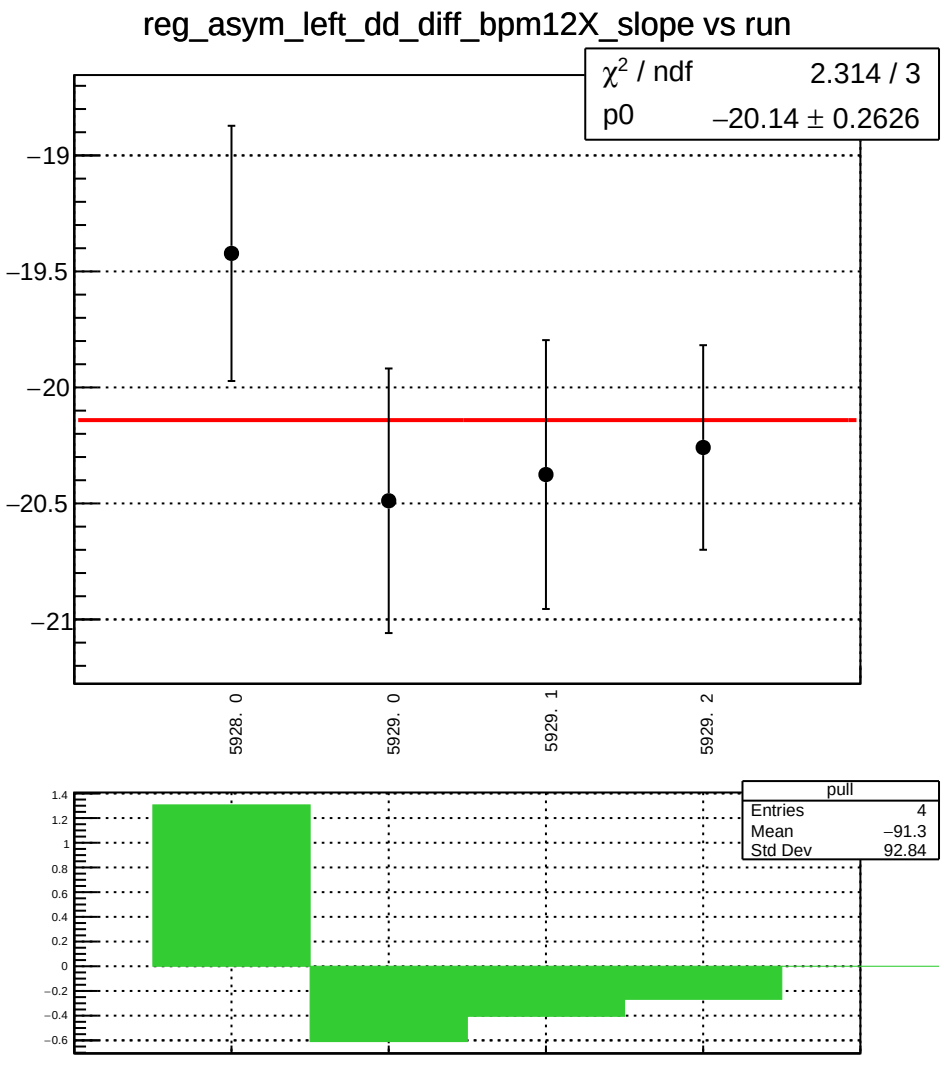

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.193 / 3
p0 −0.5731± 3.77
10
5
0
−5
−10
−15
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.928
Std Dev 5.475
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

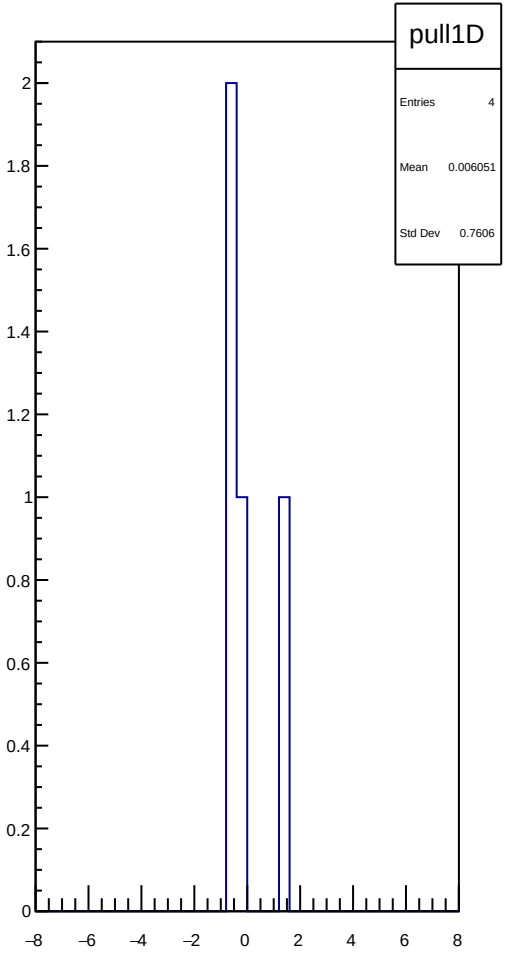

pull1D
Entries 4
Mean −0.07359
Std Dev 0.7368
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

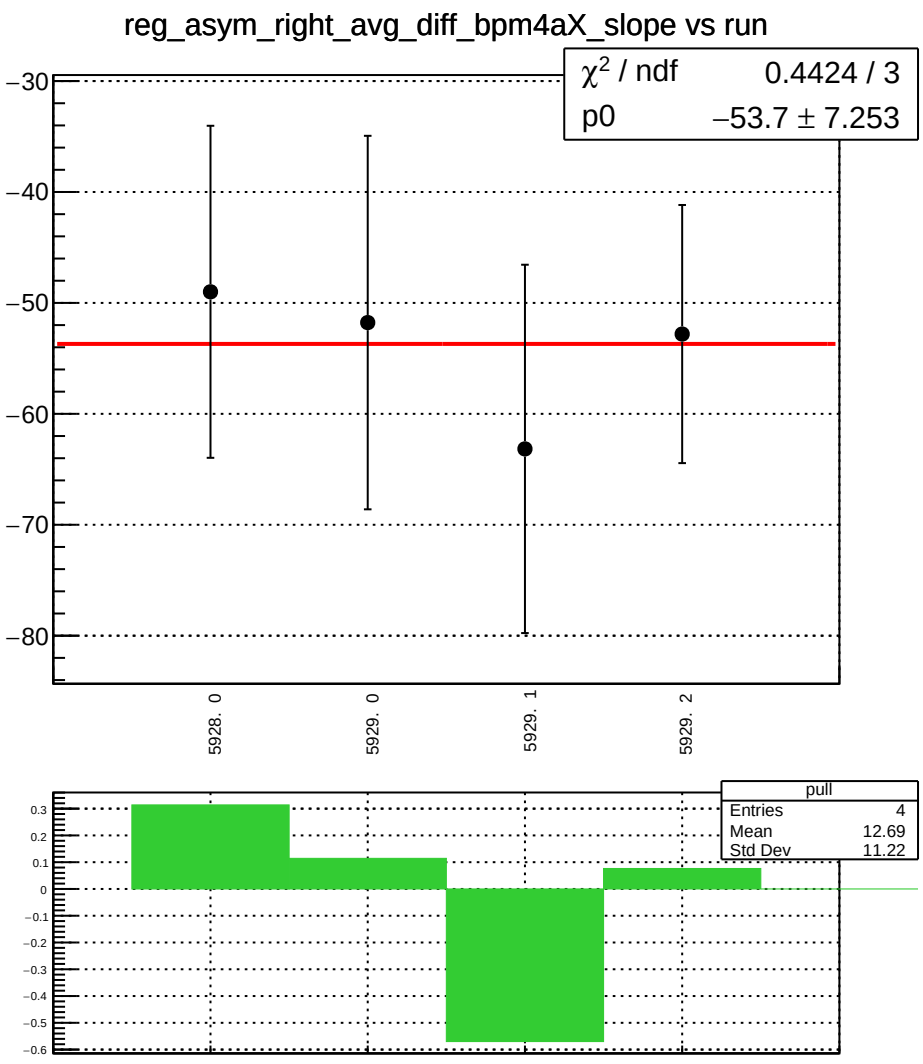

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.225 / 3
p0 38.42 ± 5.74
70
60
50
40
30
20
10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −271
Std Dev 272.6
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.002642
Std Dev 0.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

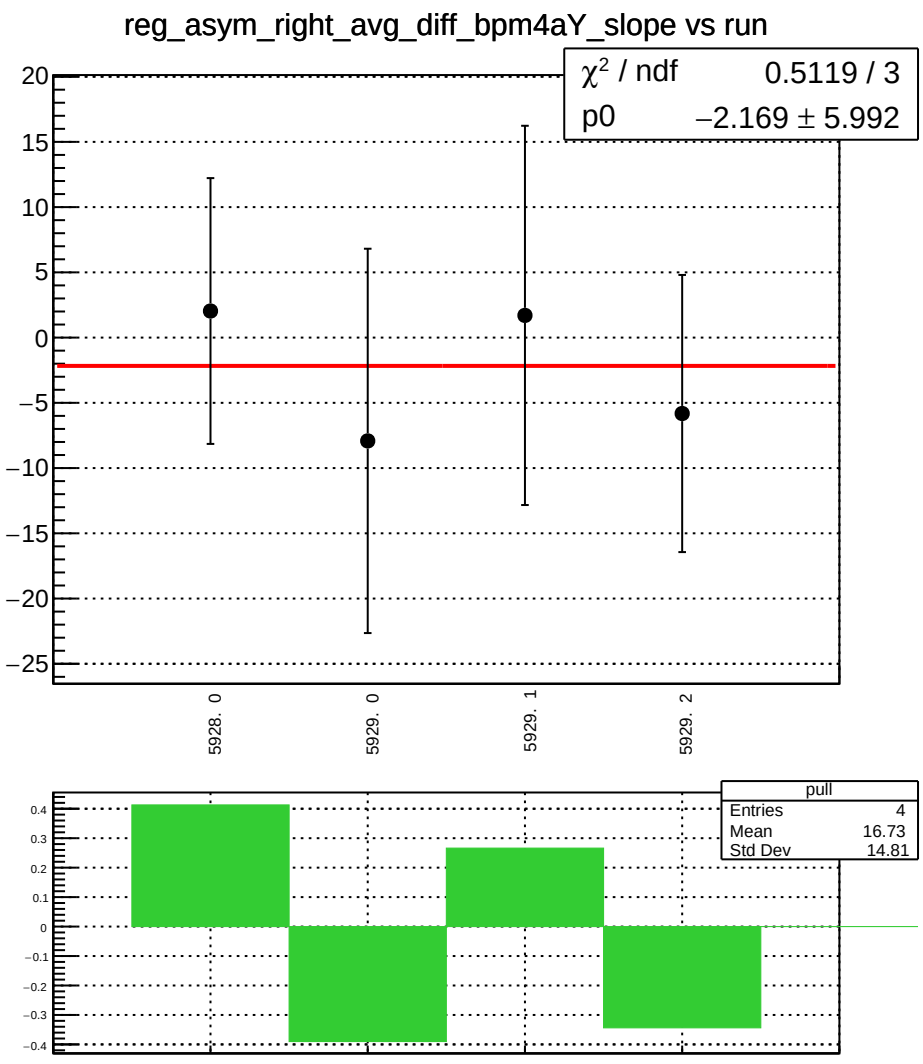

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.771 / 3
p0 11.24 ± 4.196
35
30
25
20
15
10
5
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.762
Std Dev 5.377
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

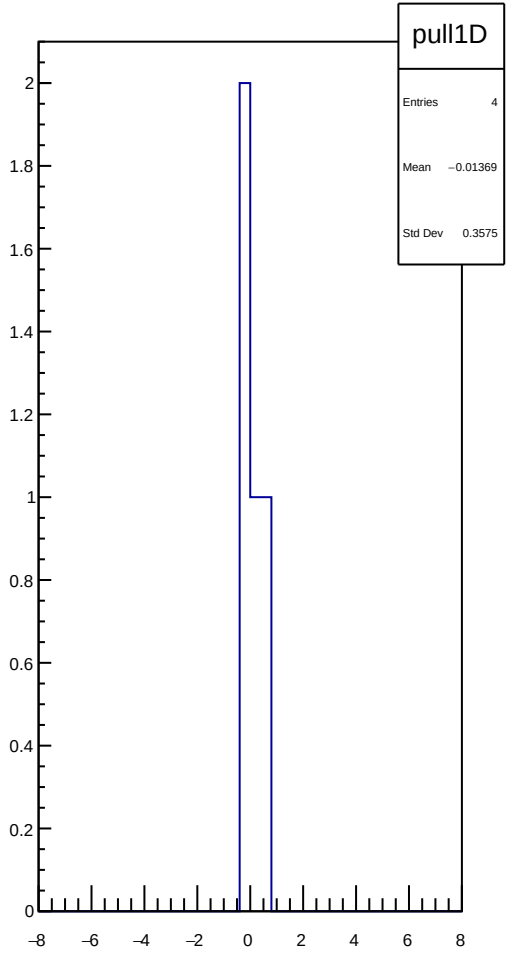

pull1D
Entries 4
Mean 0.06263
Std Dev 0.6625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

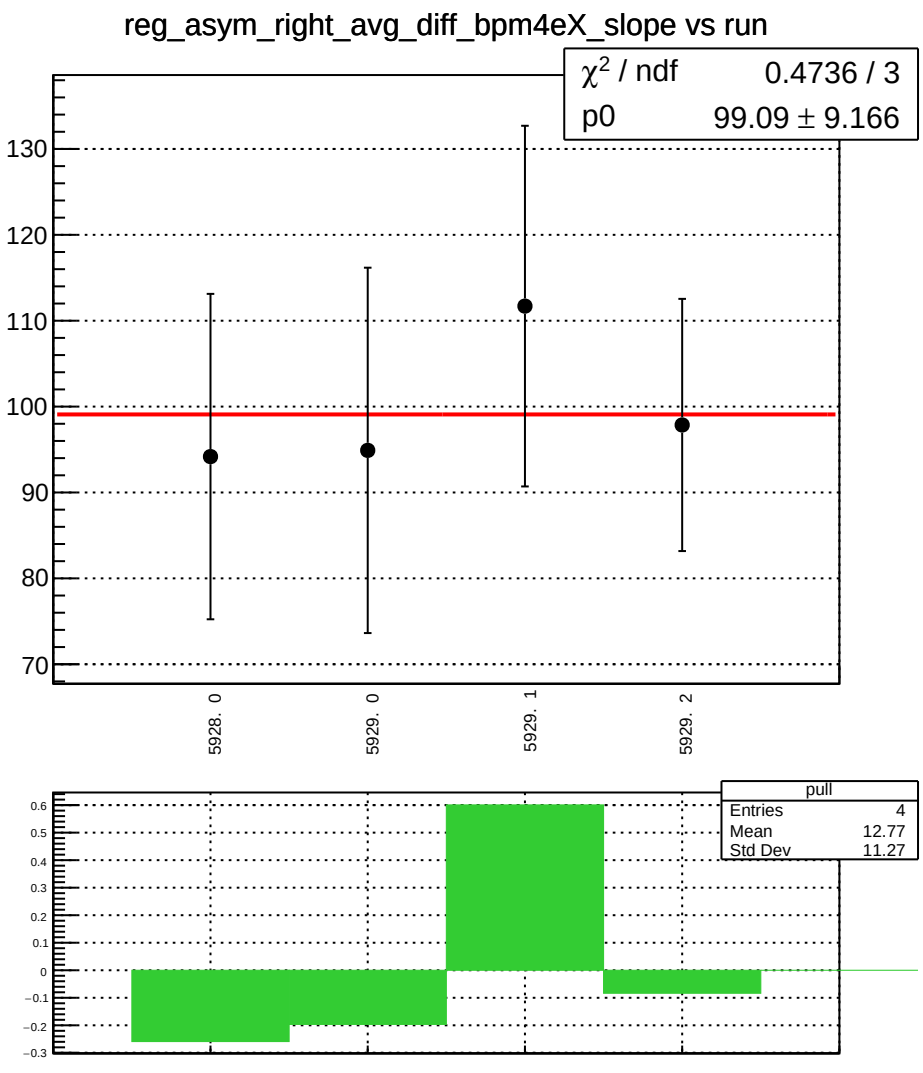

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 2.314 / 3
p0 −20.14 ± 0.2626
−19
−19.5
−20
−20.5
−21
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −91.3
Std Dev 92.84
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

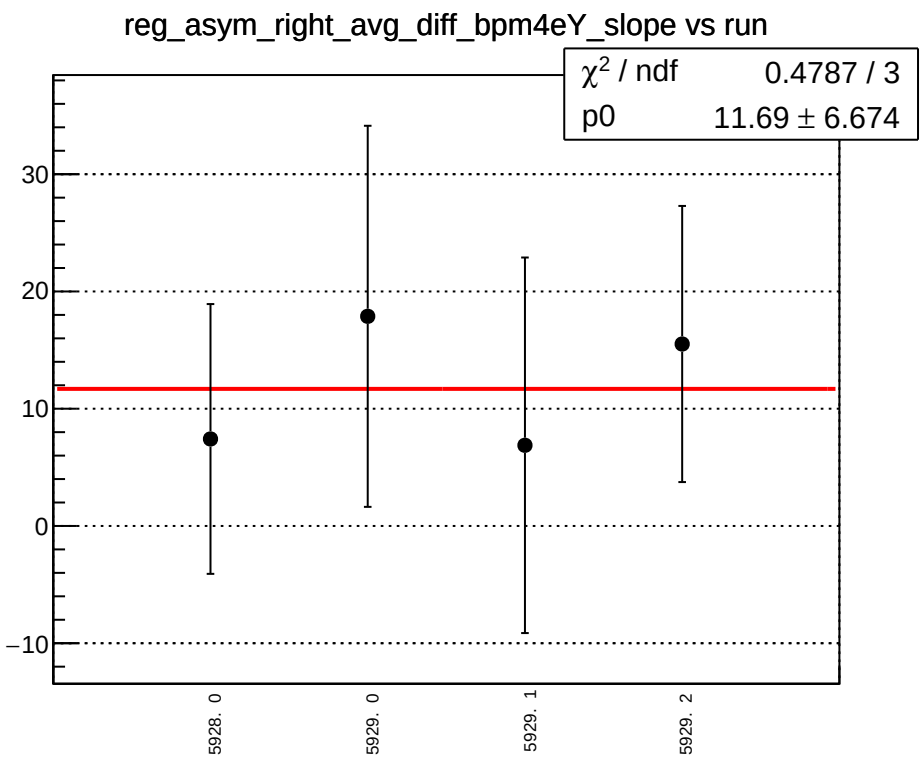

pull1D
Entries 4
Mean 0.006051
Std Dev 0.7606
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

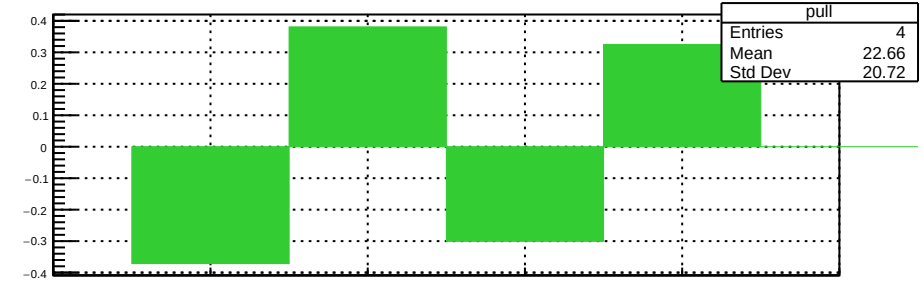

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.4424 / 3
p0 −53.7 ± 7.253
−30
−40
−50
−60
−70
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 12.69
Std Dev 11.22
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 4
Mean −0.01634
Std Dev 0.3322
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

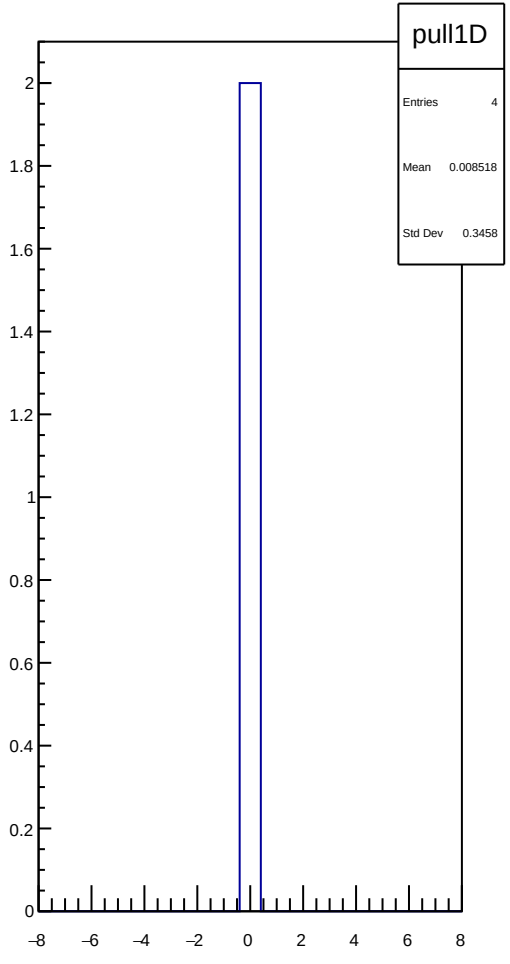

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5119 / 3
p0 −2.169 ± 5.992
20
15
10
5
0
−5
−10
−15
−20
−25
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 16.73
Std Dev 14.81
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

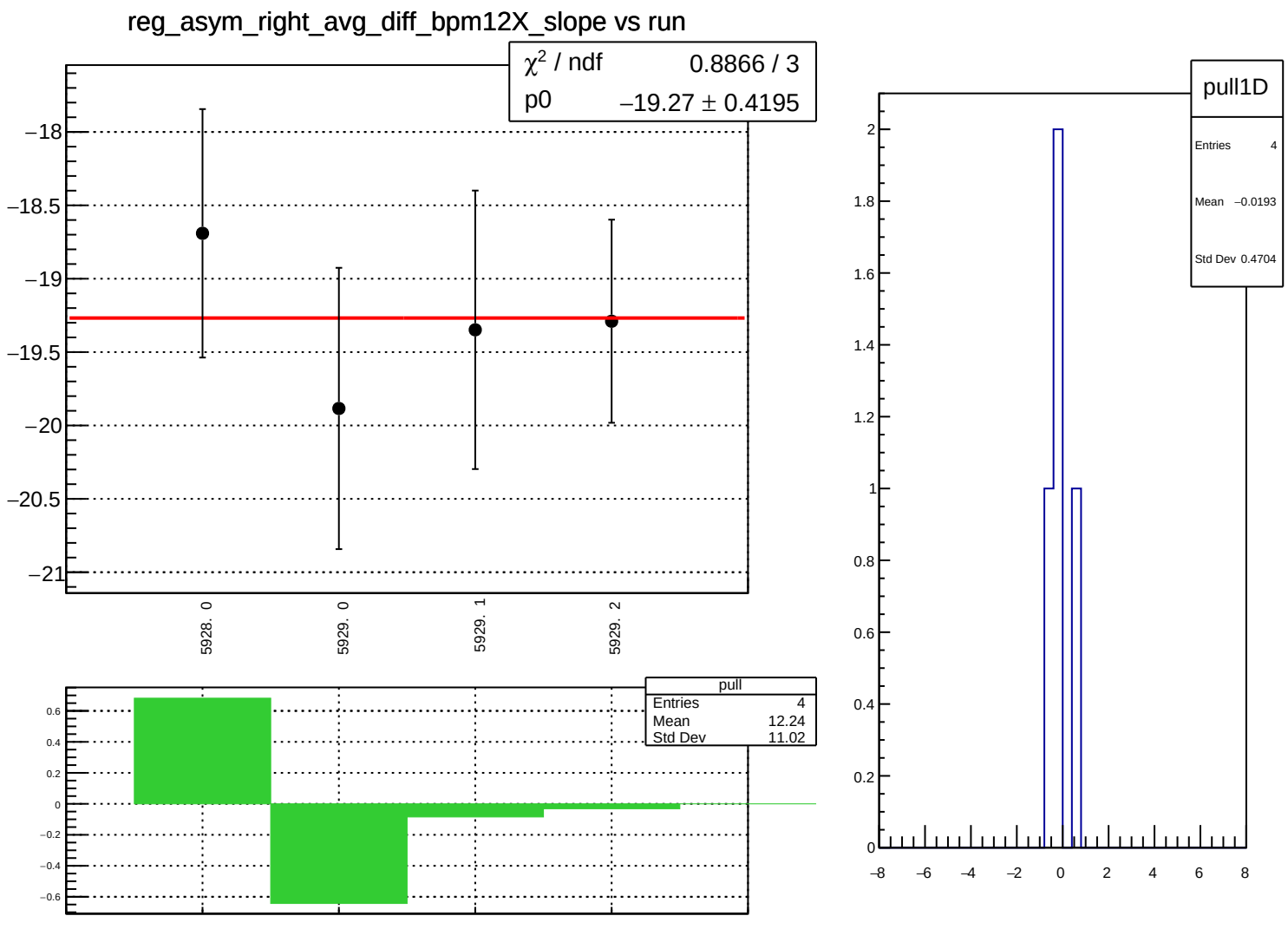

pull1D
Entries 4
Mean −0.01369
Std Dev 0.3575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

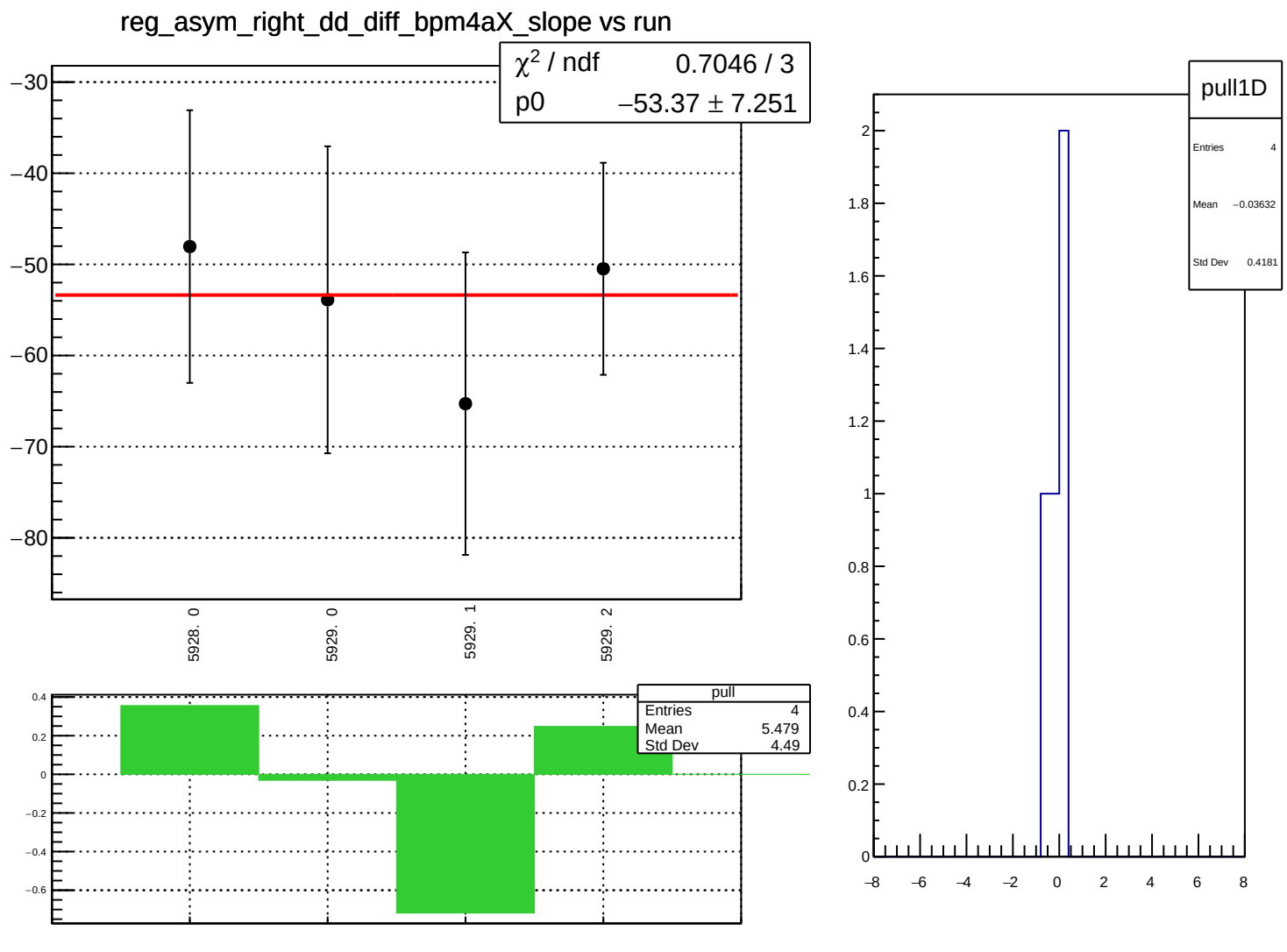

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4736 / 3
p0 99.09 ± 9.166
130
120
110
100
90
80
70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 12.77
Std Dev 11.27
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.01536
Std Dev 0.3438
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

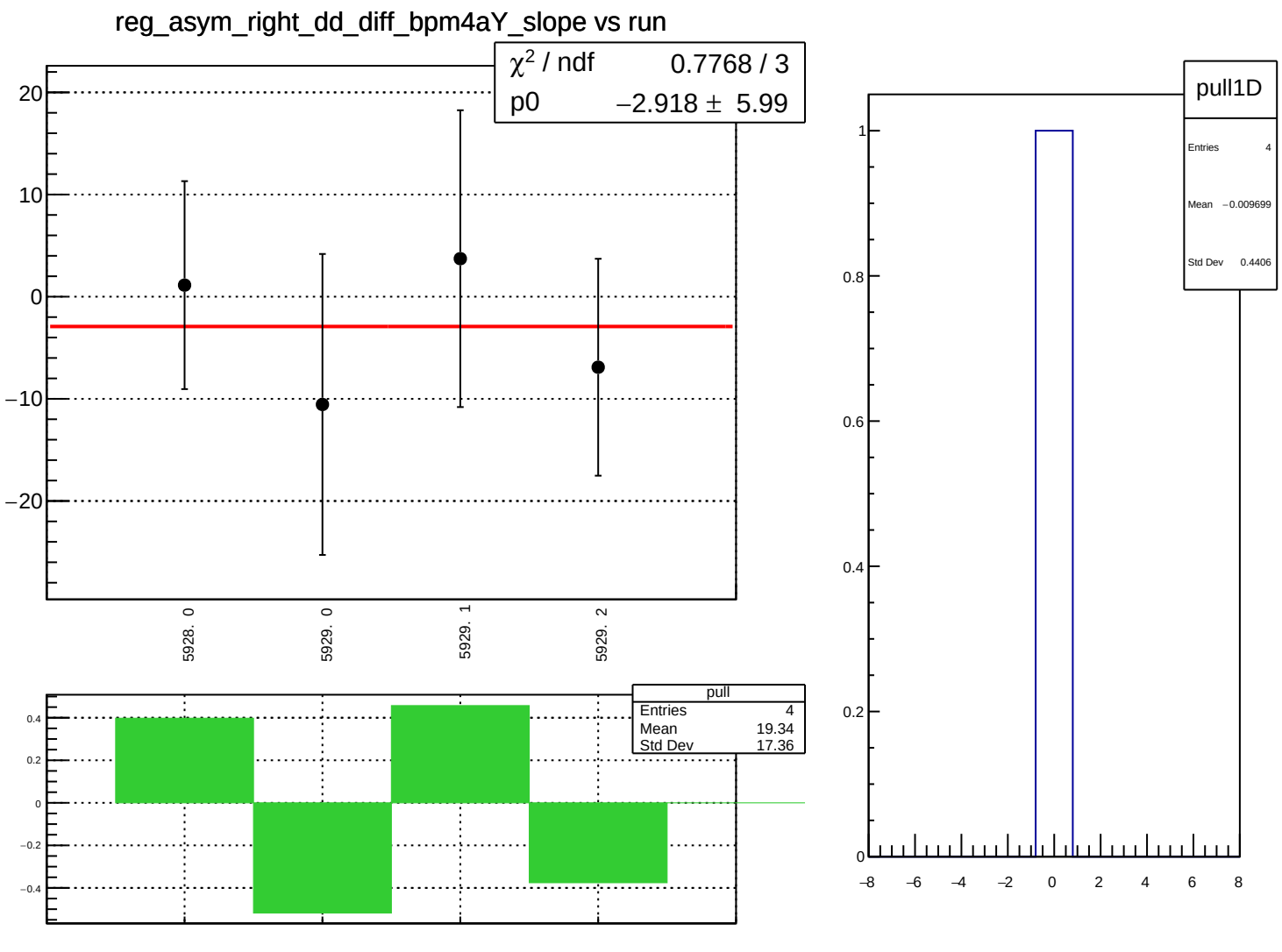

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4787 / 3
p0 11.69 ± 6.674
30
20
10
0
−10
5928. 0
5929. 0
5929. 1
5929. 2


pull
Entries 4
Mean 22.66
Std Dev 20.72
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4


pull1D
Entries 4
Mean 0.008518
Std Dev 0.3458
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


reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8866 / 3
p0 −19.27 ± 0.4195
−18
−18.5
−19
−19.5
−20
−20.5
−21
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 12.24
Std Dev 11.02
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.0193
Std Dev 0.4704
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


reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7046 / 3
p0 −53.37 ± 7.251
−30
−40
−50
−60
−70
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.479
Std Dev 4.49
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.03632
Std Dev 0.4181
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


reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7768 / 3
p0 −2.918 ± 5.99
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 19.34
Std Dev 17.36
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.009699
Std Dev 0.4406
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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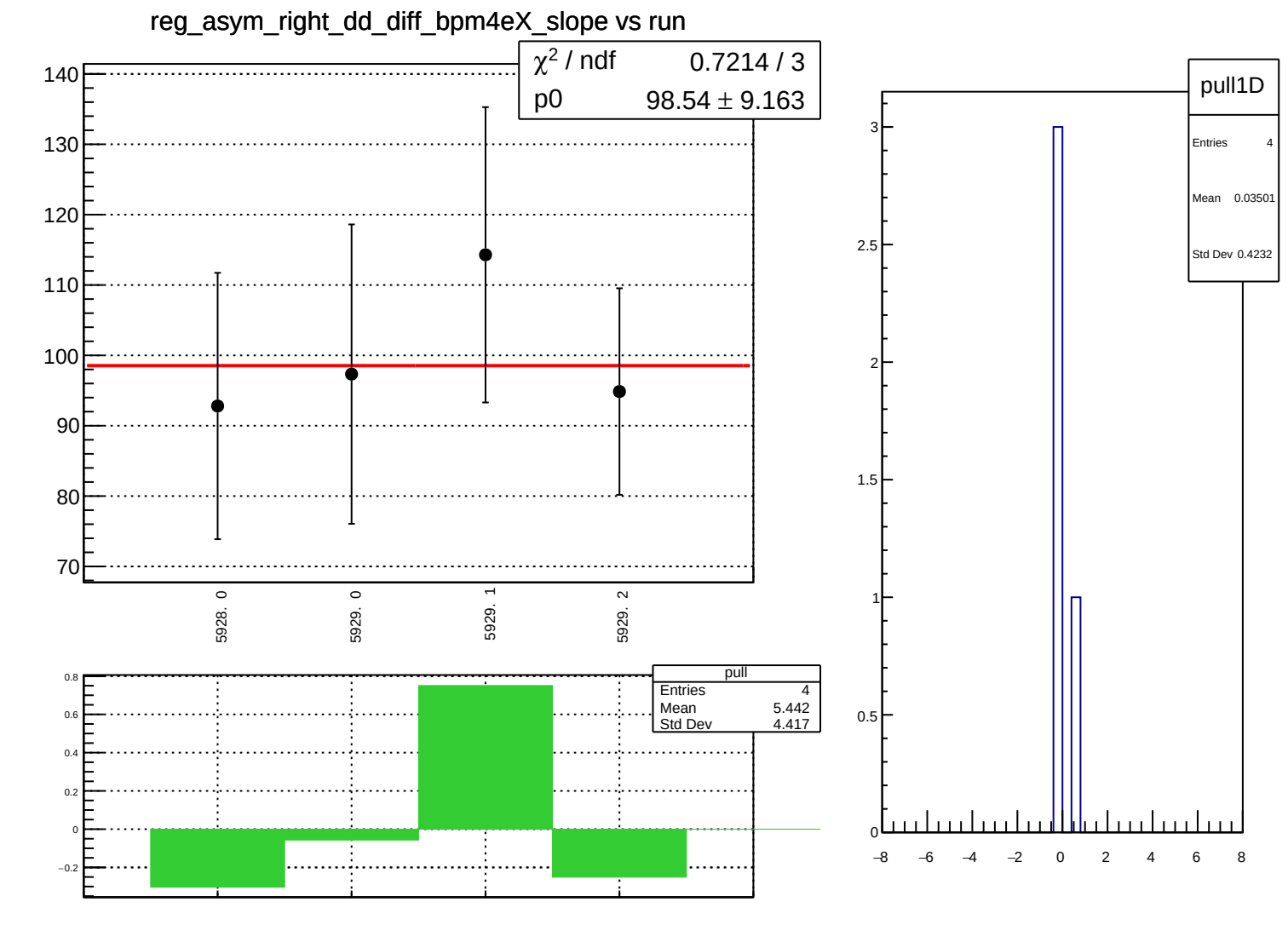
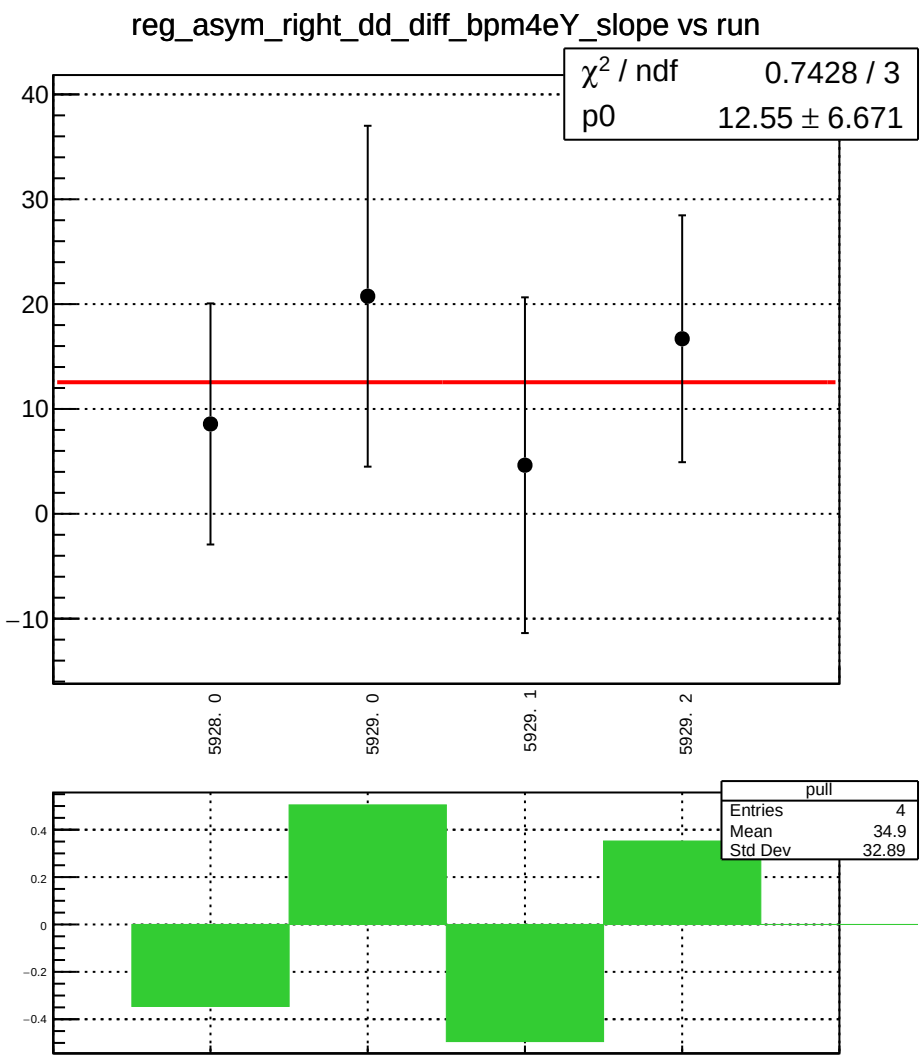
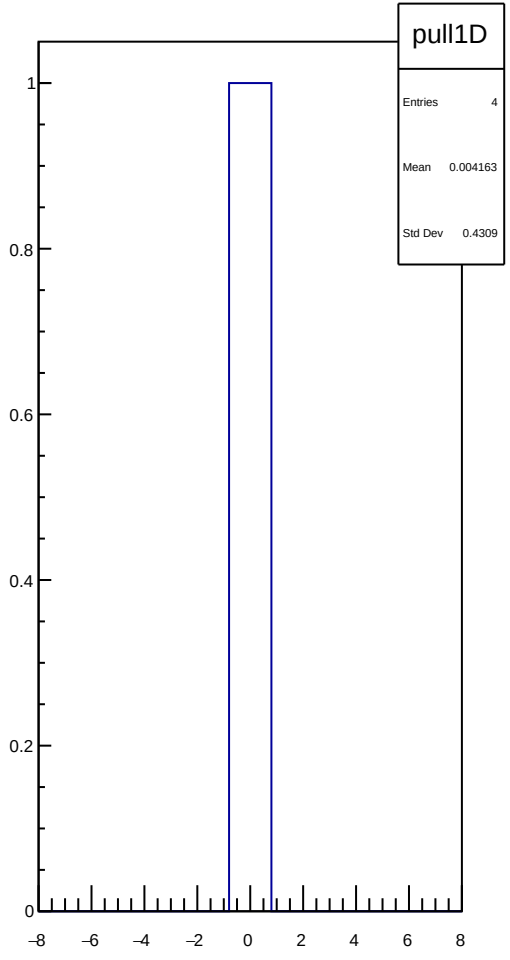
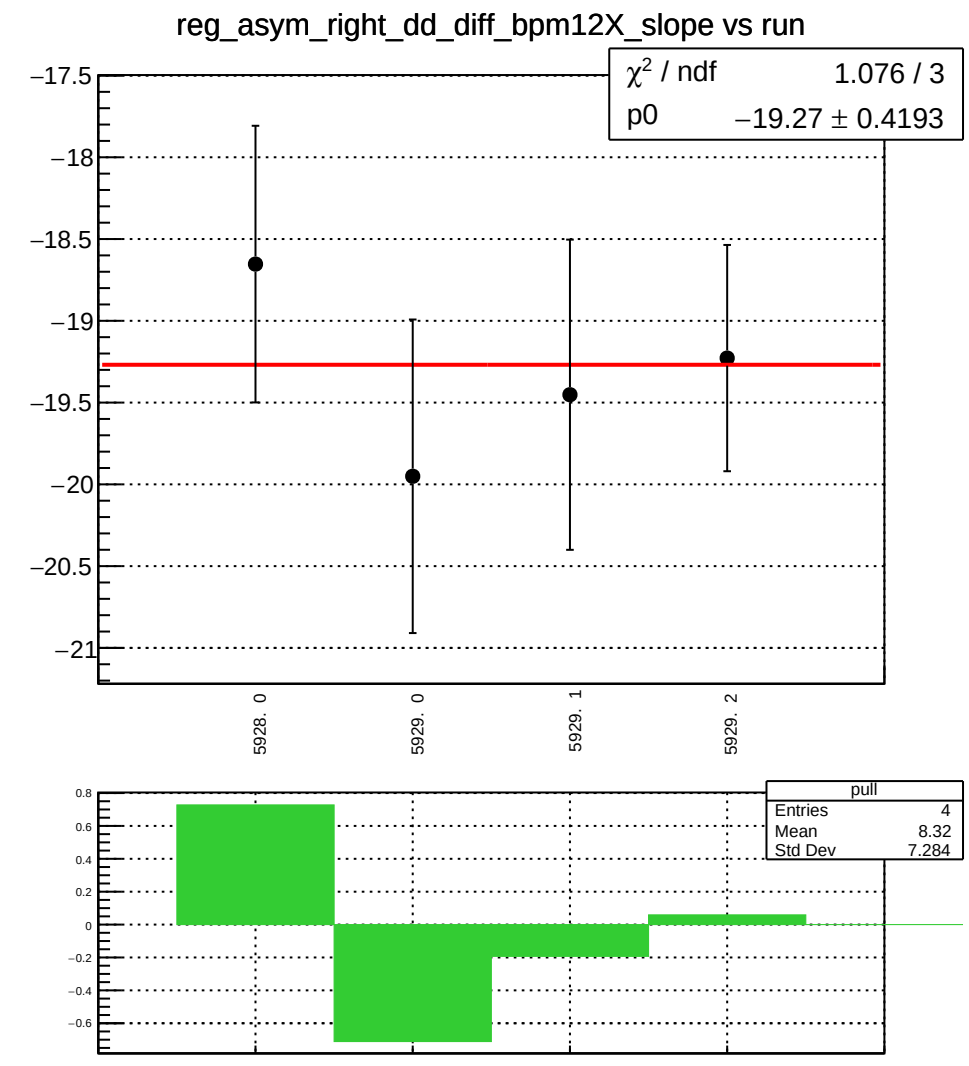
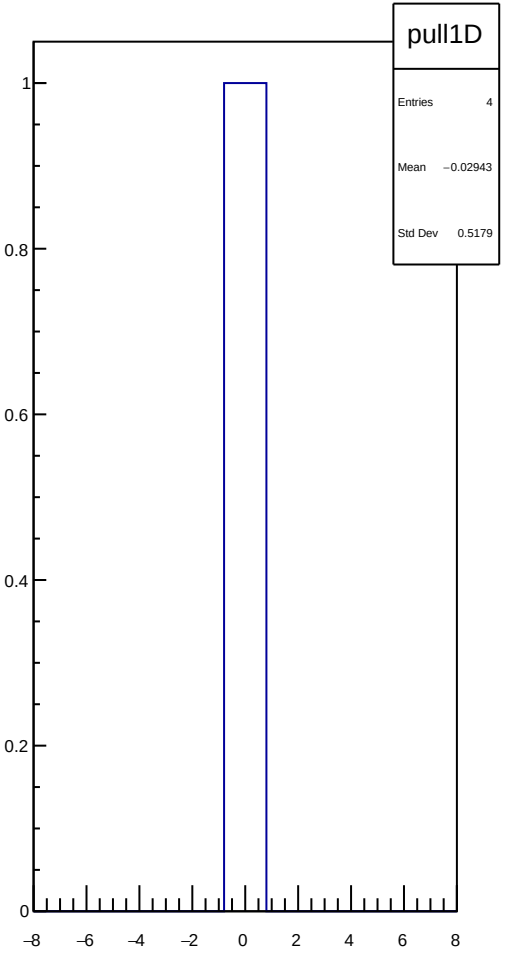
0
2
4
6
8

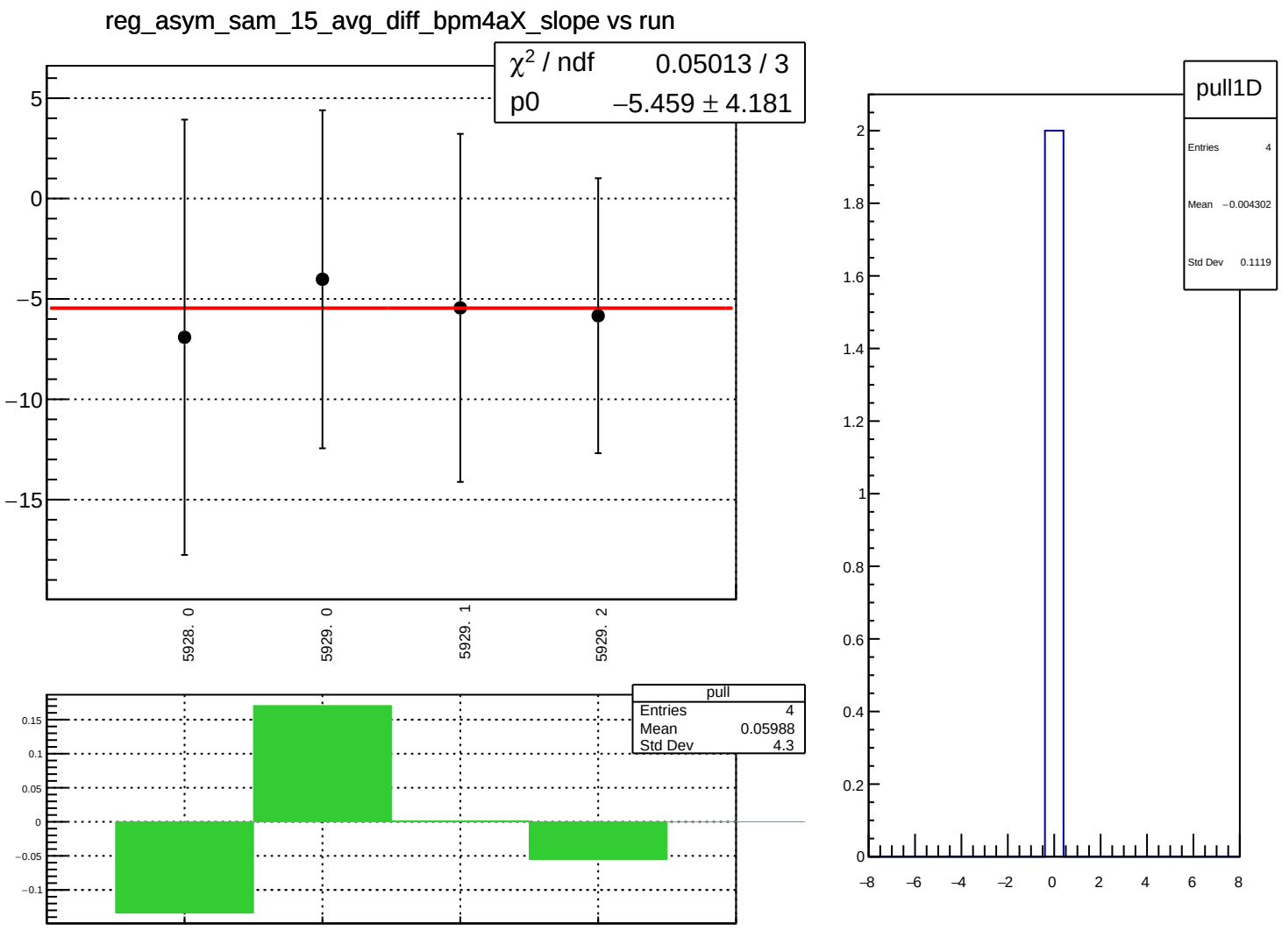

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7214 / 3
p0 98.54 ± 9.163
140
130
120
110
100
90
80
70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.442
Std Dev 4.417
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean 0.03501
Std Dev 0.4232
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

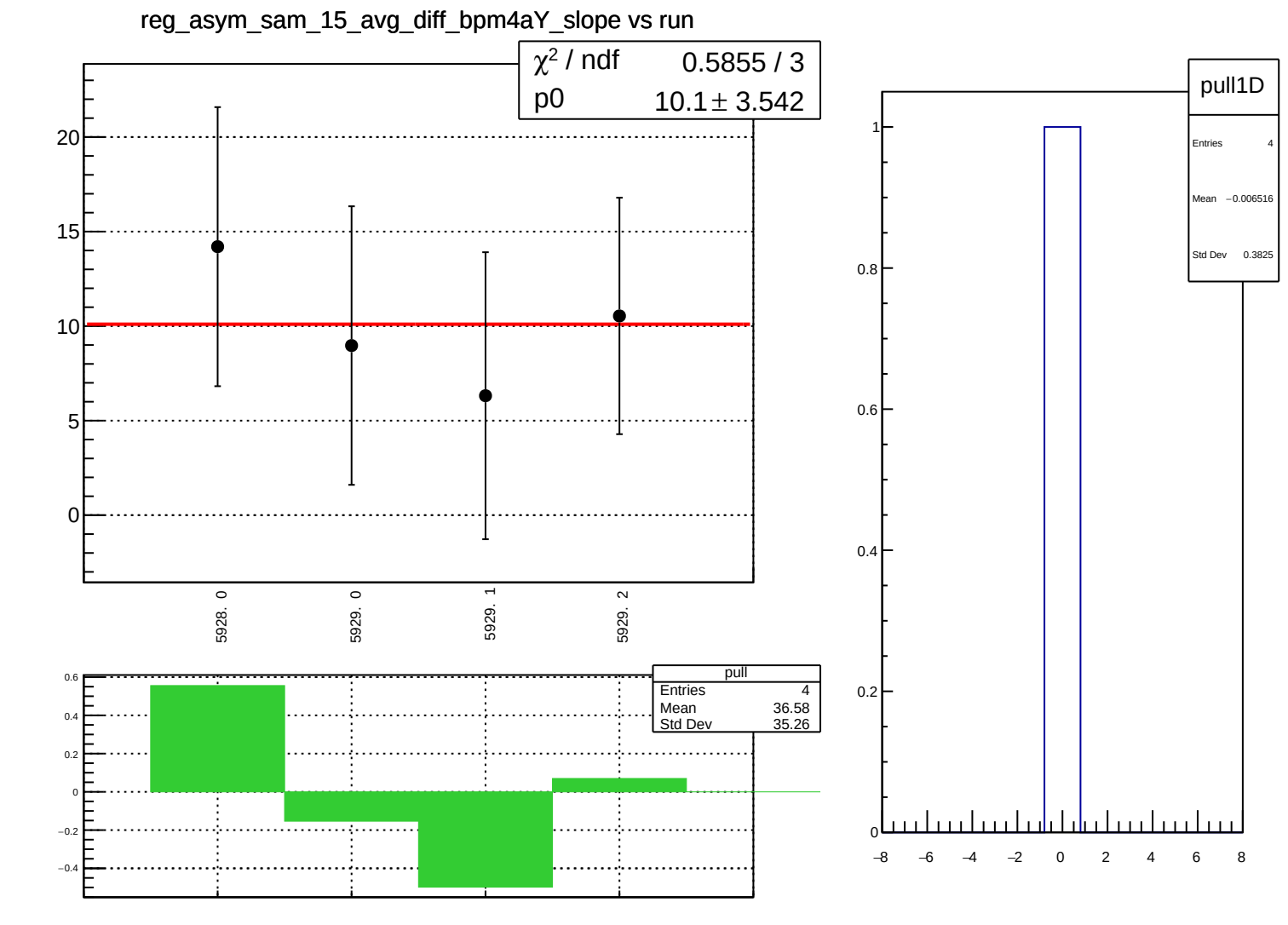

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7428 / 3
p0 12.55 ± 6.671
40
30
20
10
0
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 34.9
Std Dev 32.89
0.4
0.2
0
−0.2
−0.4

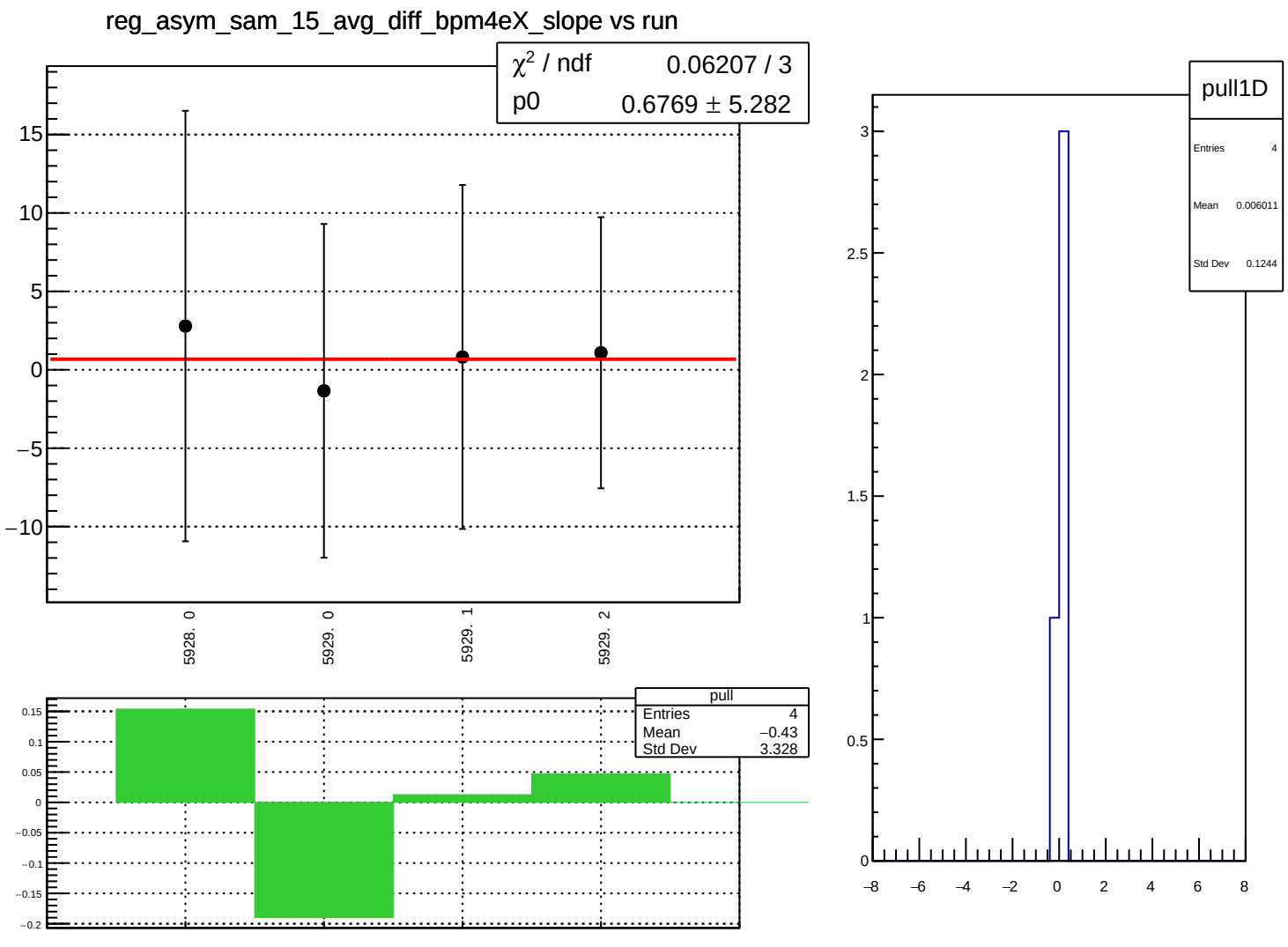

pull1D
Entries 4
Mean 0.004163
Std Dev 0.4309
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

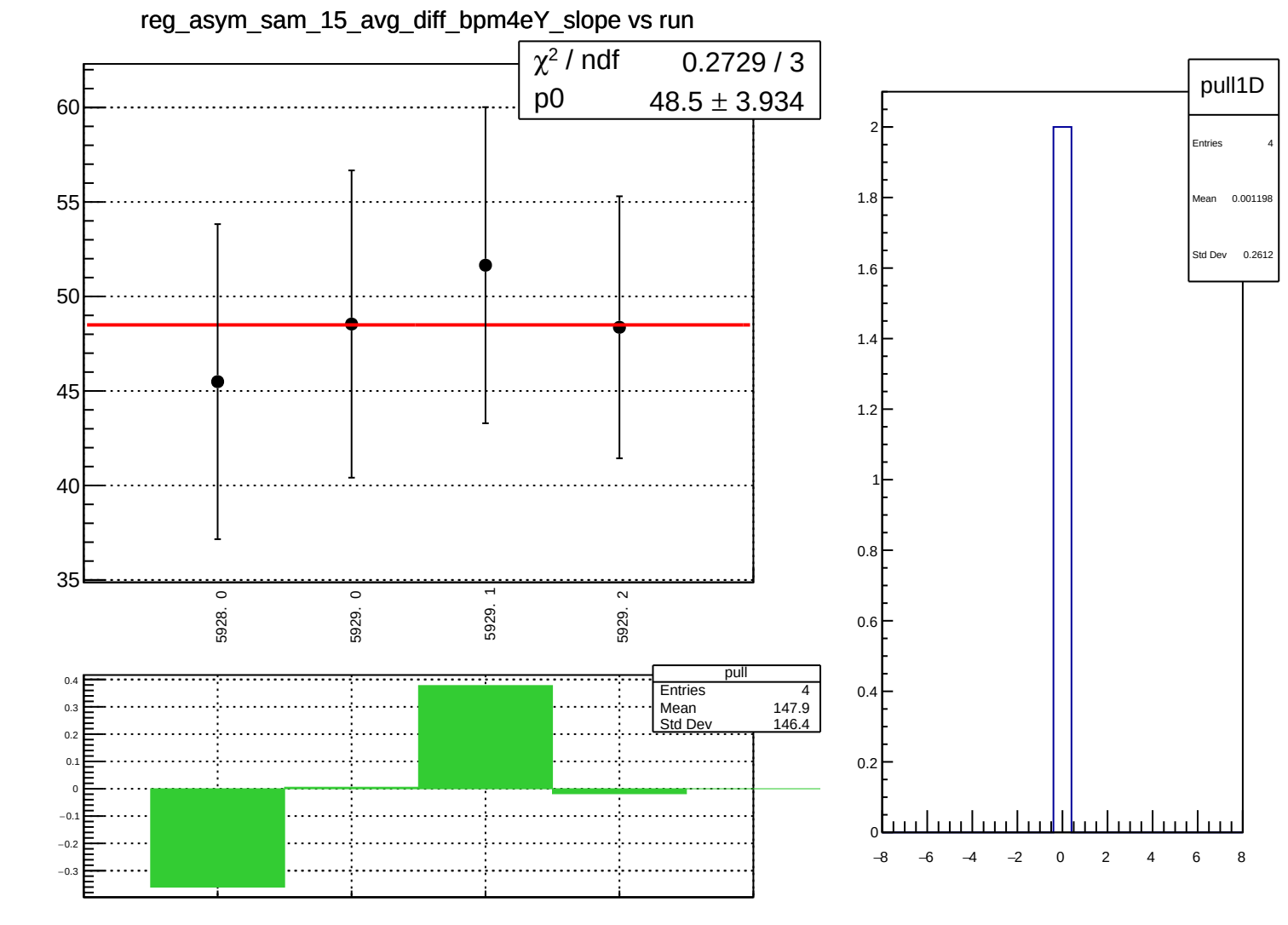

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 1.076 / 3
p0 −19.27 ± 0.4193
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
−21
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.32
Std Dev 7.284
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

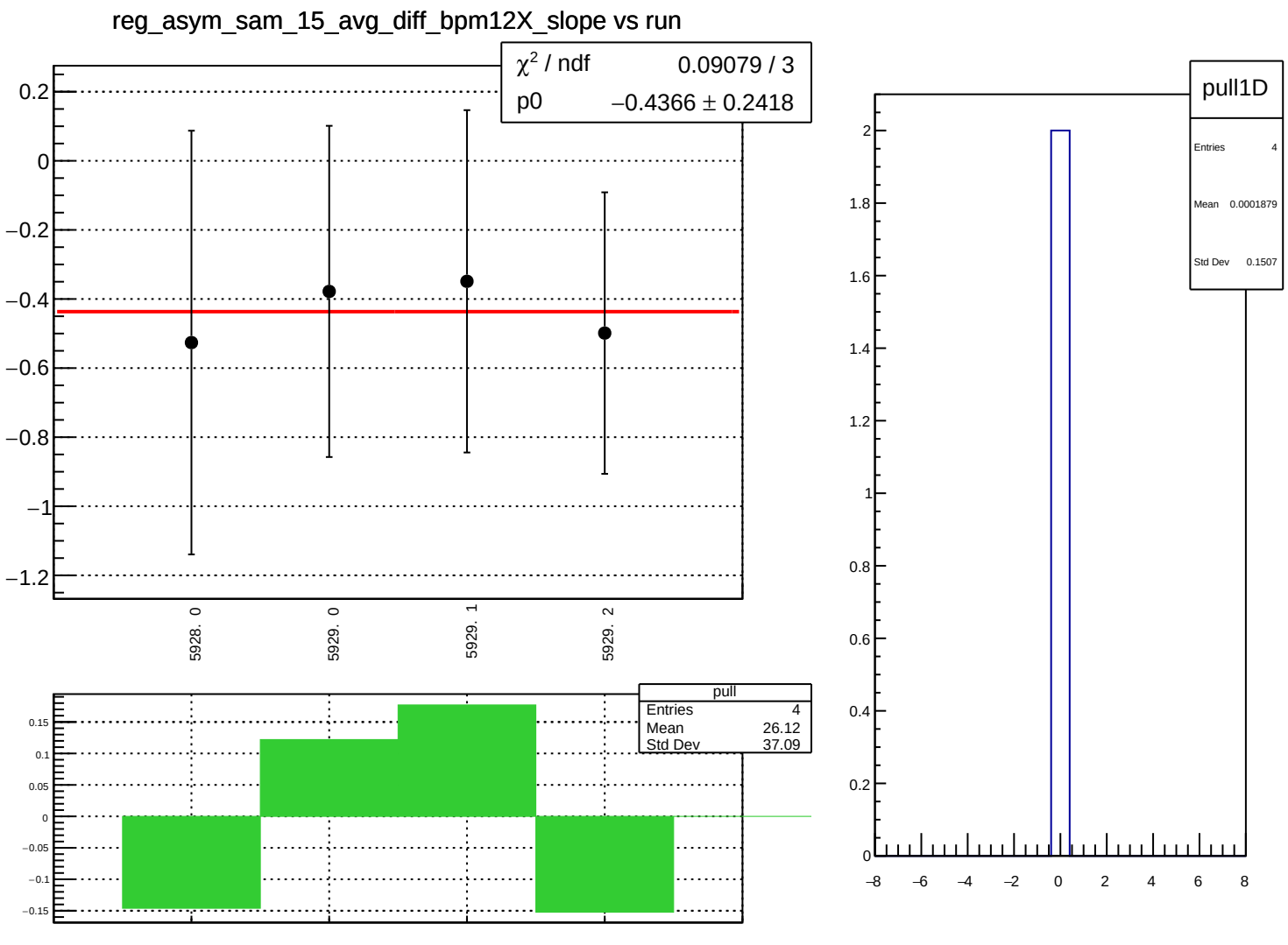

pull1D
Entries 4
Mean −0.02943
Std Dev 0.5179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

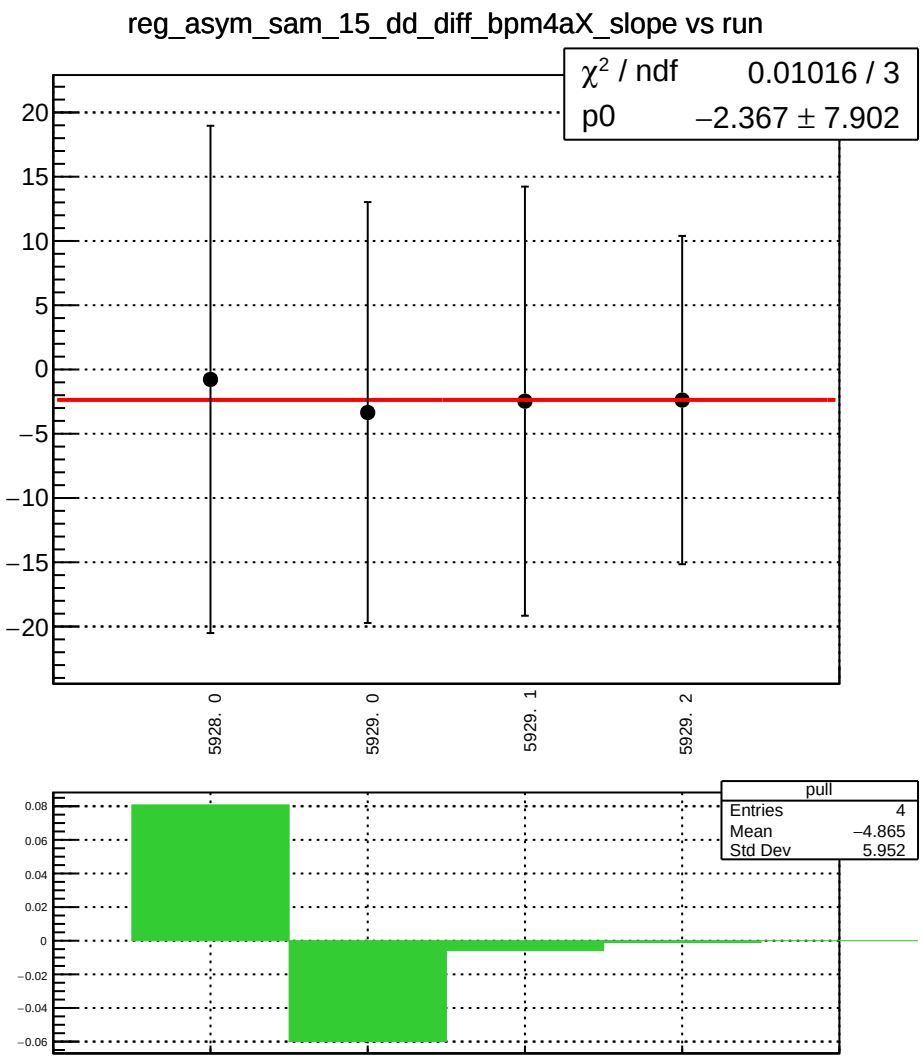

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.05013 / 3
p0 −5.459 ± 4.181
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.05988
Std Dev 4.3
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.004302
Std Dev 0.1119
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

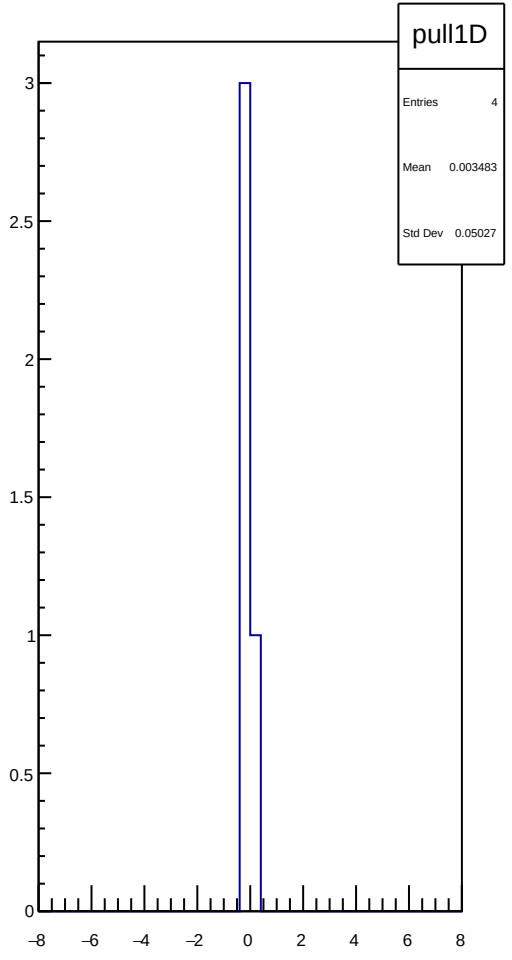

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5855 / 3
p0 10.1 ± 3.542
20
15
10
5
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 36.58
Std Dev 35.26
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.006516
Std Dev 0.3825
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

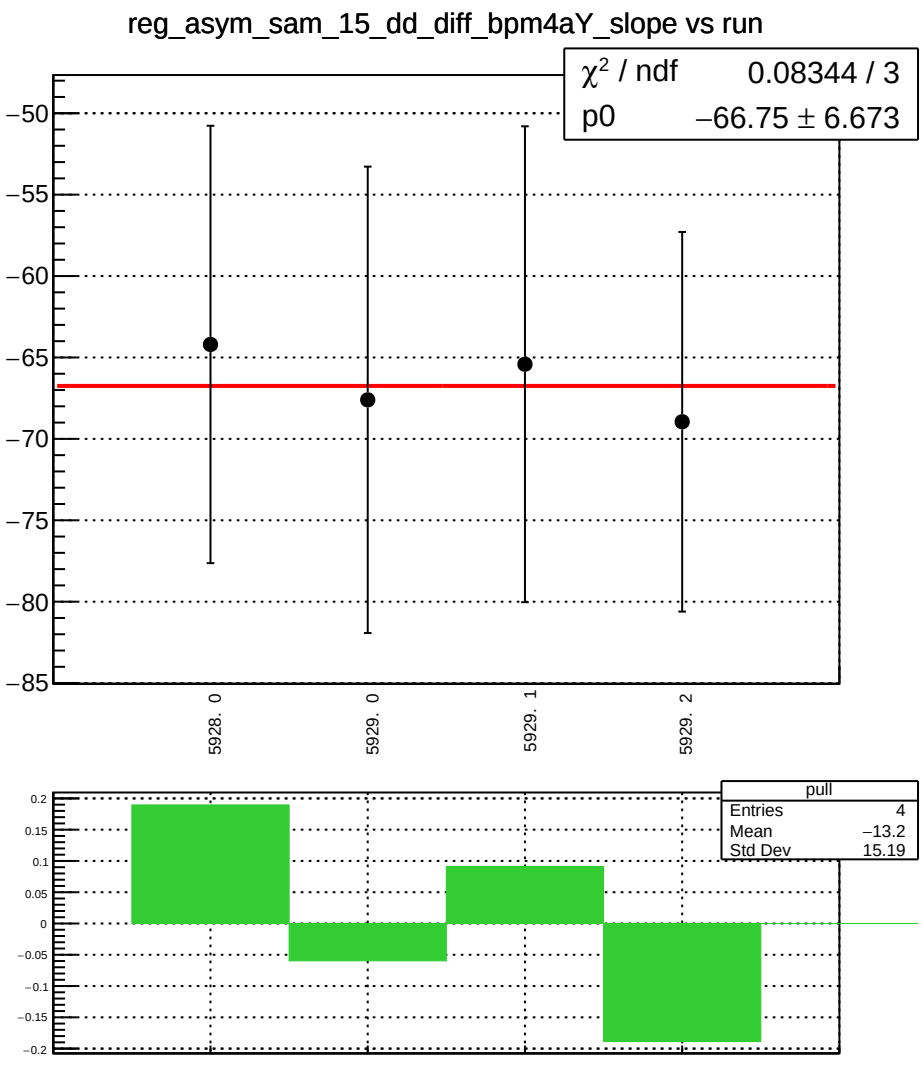

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.06207 / 3
p0 0.6769 ± 5.282
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.43
Std Dev 3.328
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean 0.006011
Std Dev 0.1244
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

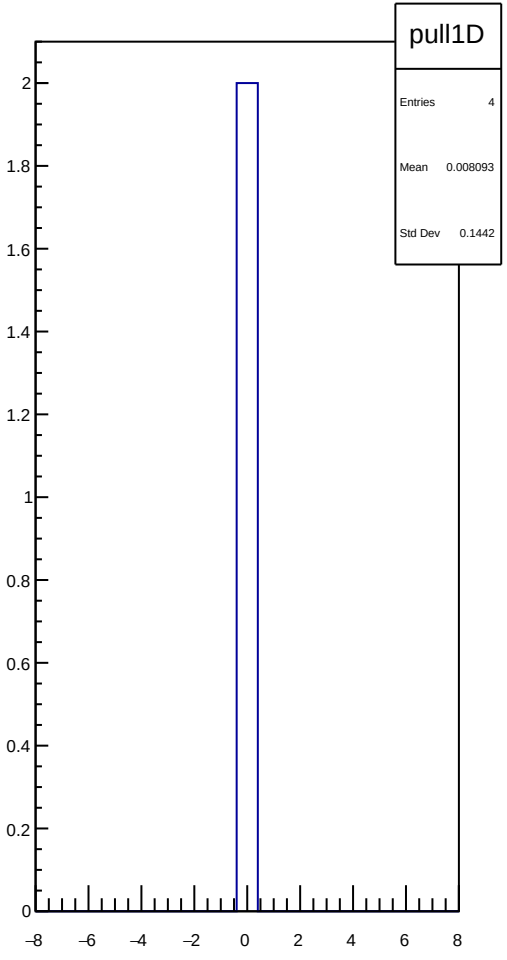

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2729 / 3
p0 48.5 ± 3.934
60
55
50
45
40
35
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 147.9
Std Dev 146.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.001198
Std Dev 0.2612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

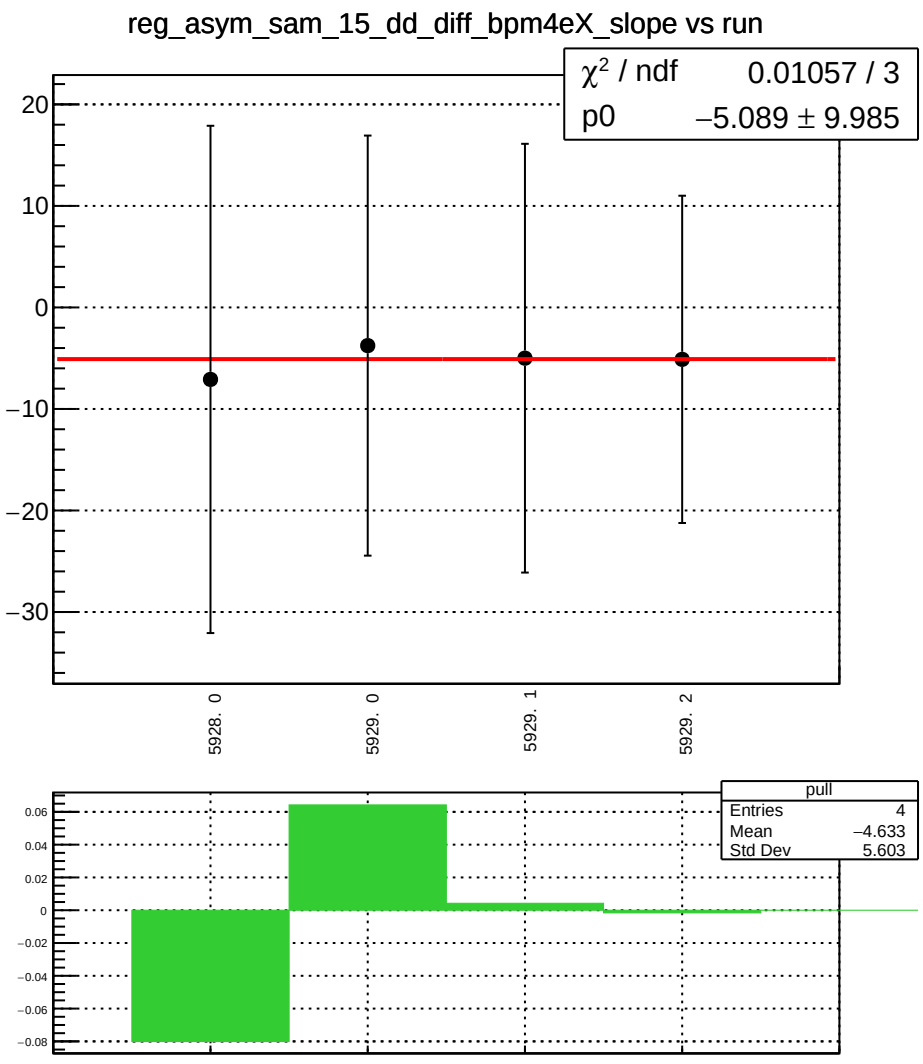

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 0.09079 / 3
p0 −0.4366 ± 0.2418
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 26.12
Std Dev 37.09
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.0001879
Std Dev 0.1507
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

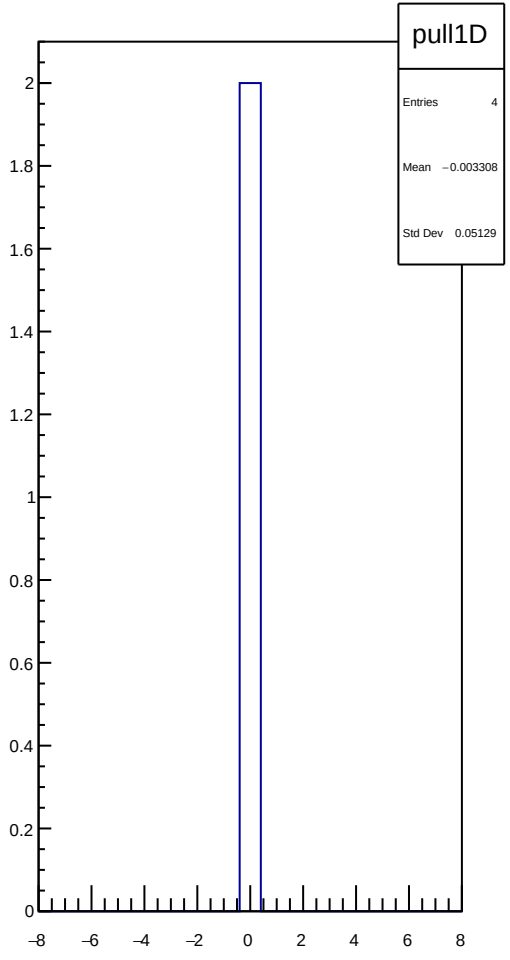

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.01016 / 3
p0 −2.367 ± 7.902
20
15
10
5
0
−5
−10
−15
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.865
Std Dev 5.952
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

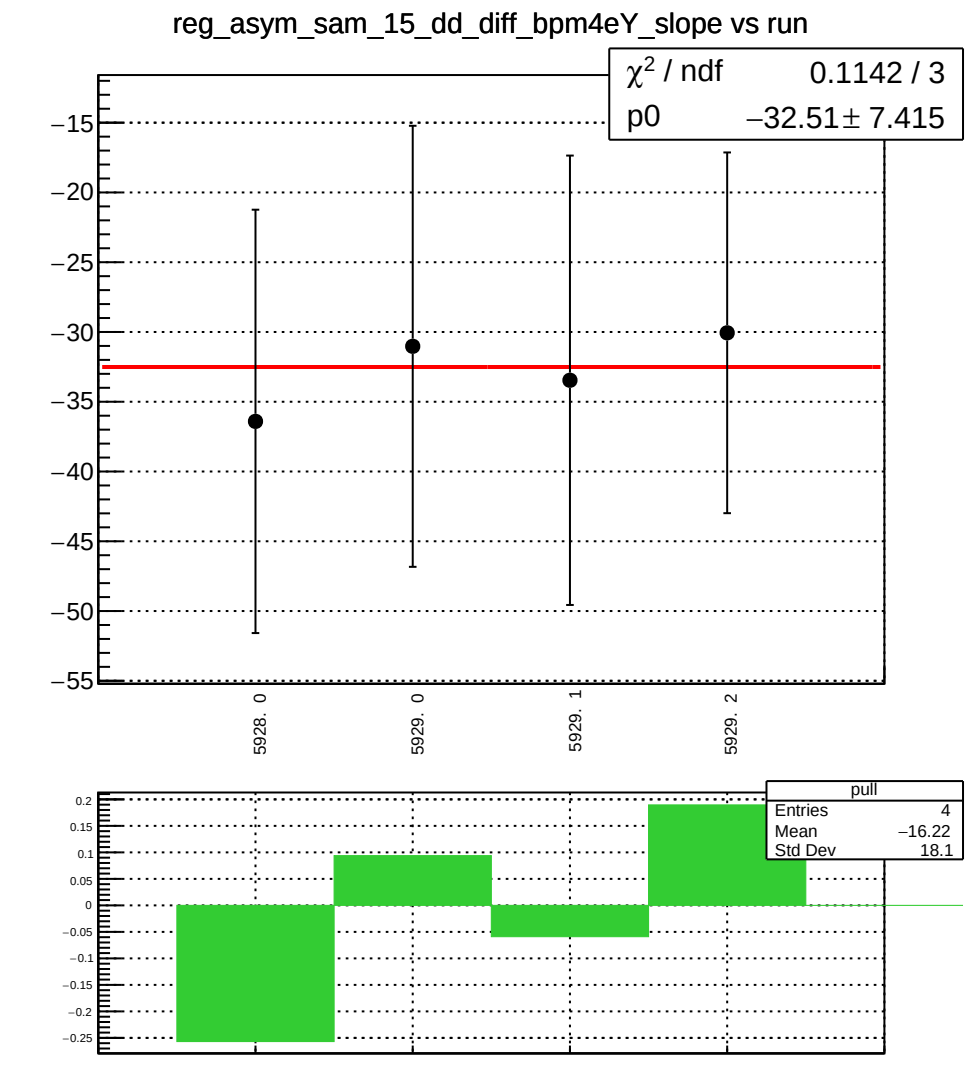

pull1D
Entries 4
Mean 0.003483
Std Dev 0.05027
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

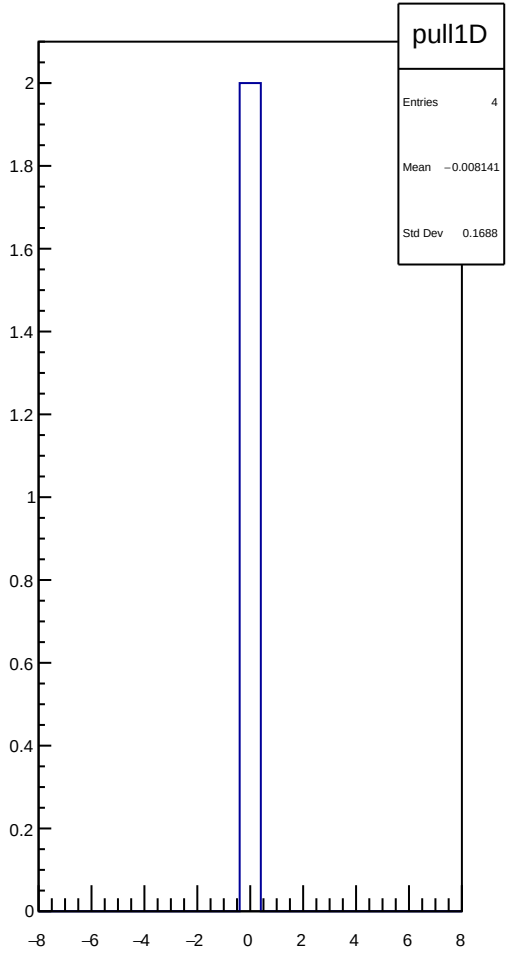

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.08344 / 3
p0 −66.75 ± 6.673
−50
−55
−60
−65
−70
−75
−80
−85
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.2
Std Dev 15.19
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

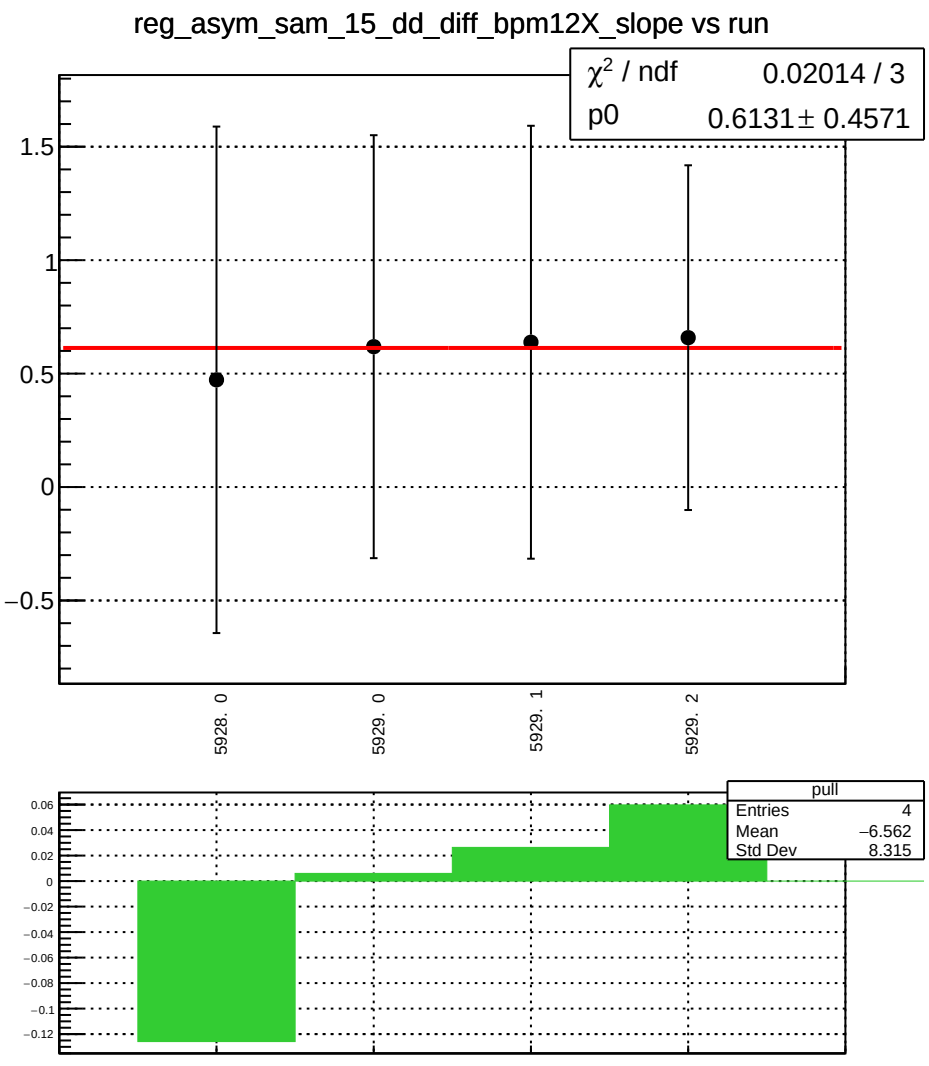

pull1D
Entries 4
Mean 0.008093
Std Dev 0.1442
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

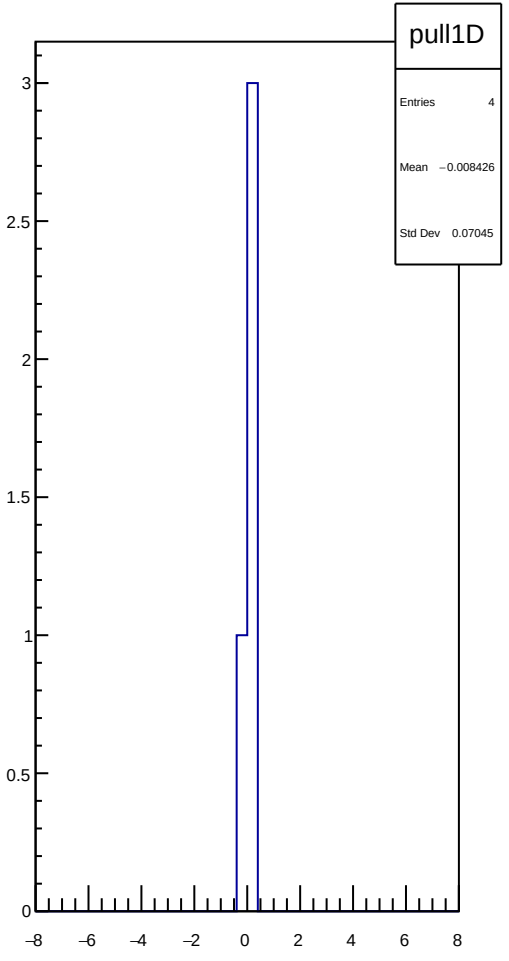

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.01057 / 3
p0 −5.089 ± 9.985
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.633
Std Dev 5.603
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

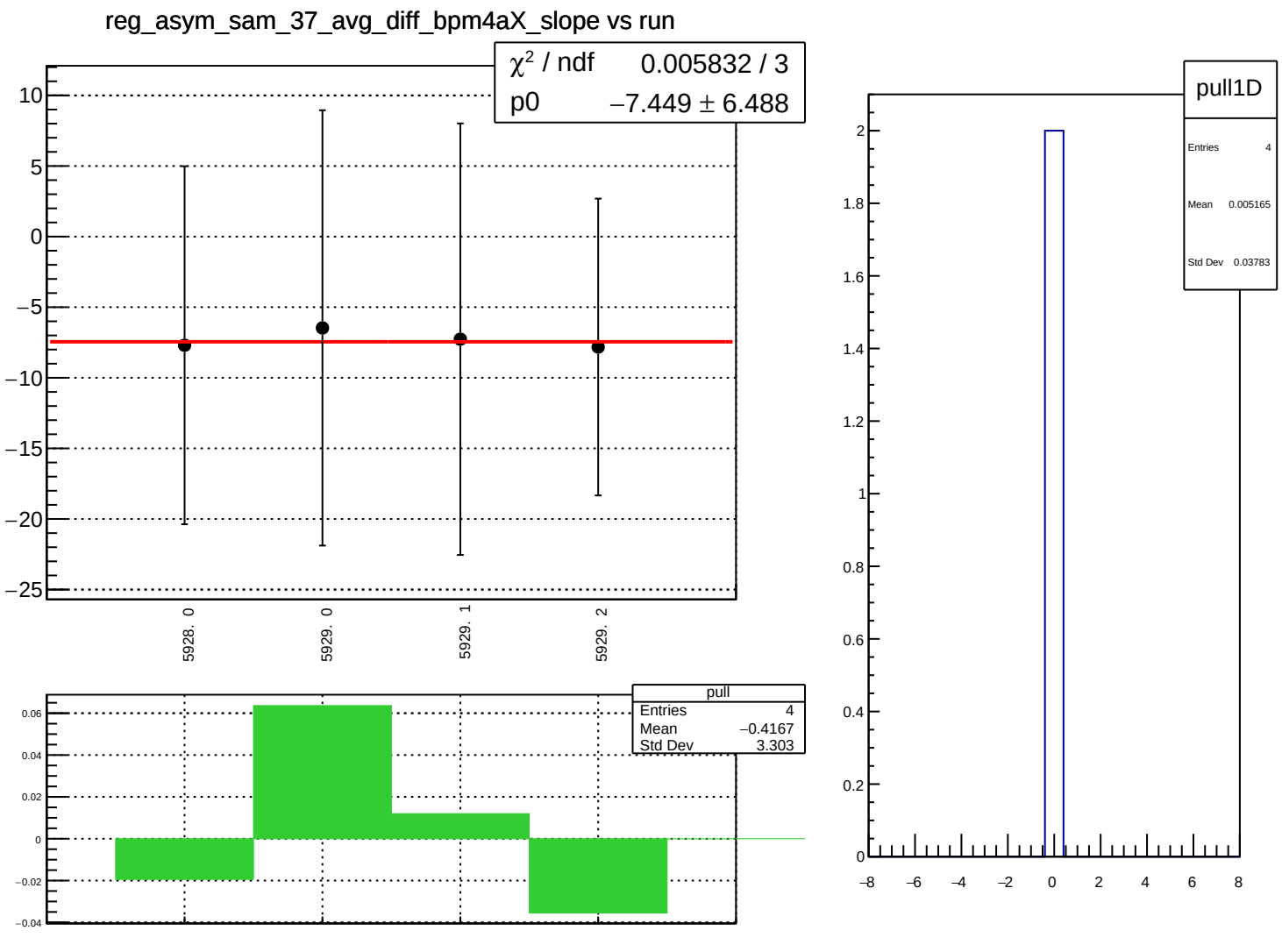

pull1D
Entries 4
Mean −0.003308
Std Dev 0.05129
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

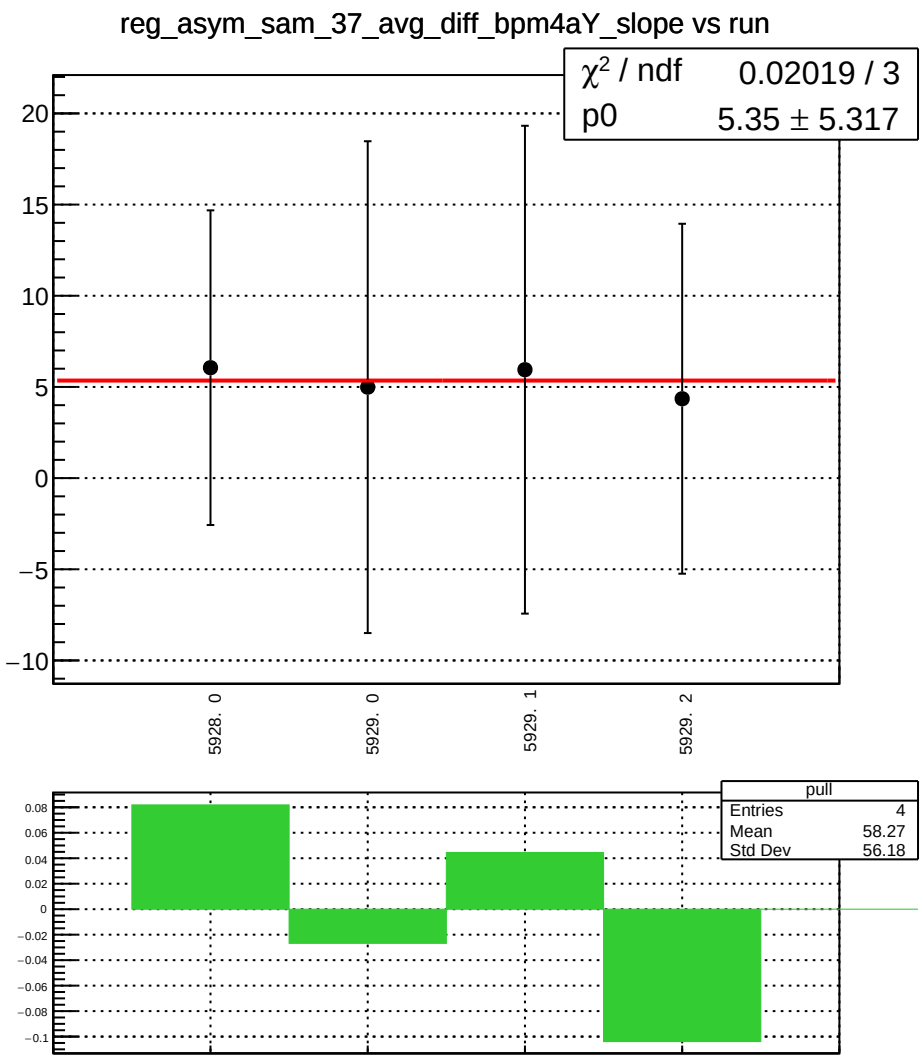

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1142 / 3
p0 −32.51± 7.415
−15
−20
−25
−30
−35
−40
−45
−50
−55
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −16.22
Std Dev 18.1
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

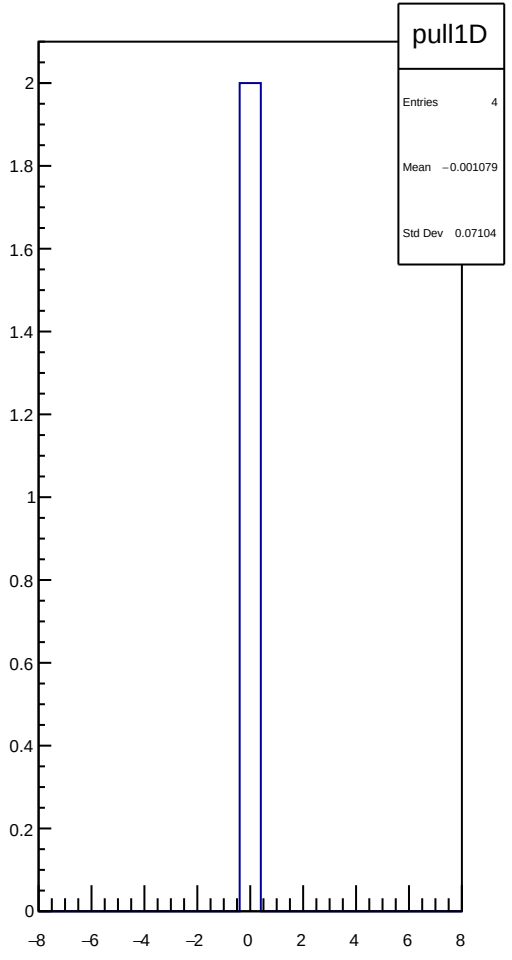

pull1D
Entries 4
Mean −0.008141
Std Dev 0.1688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

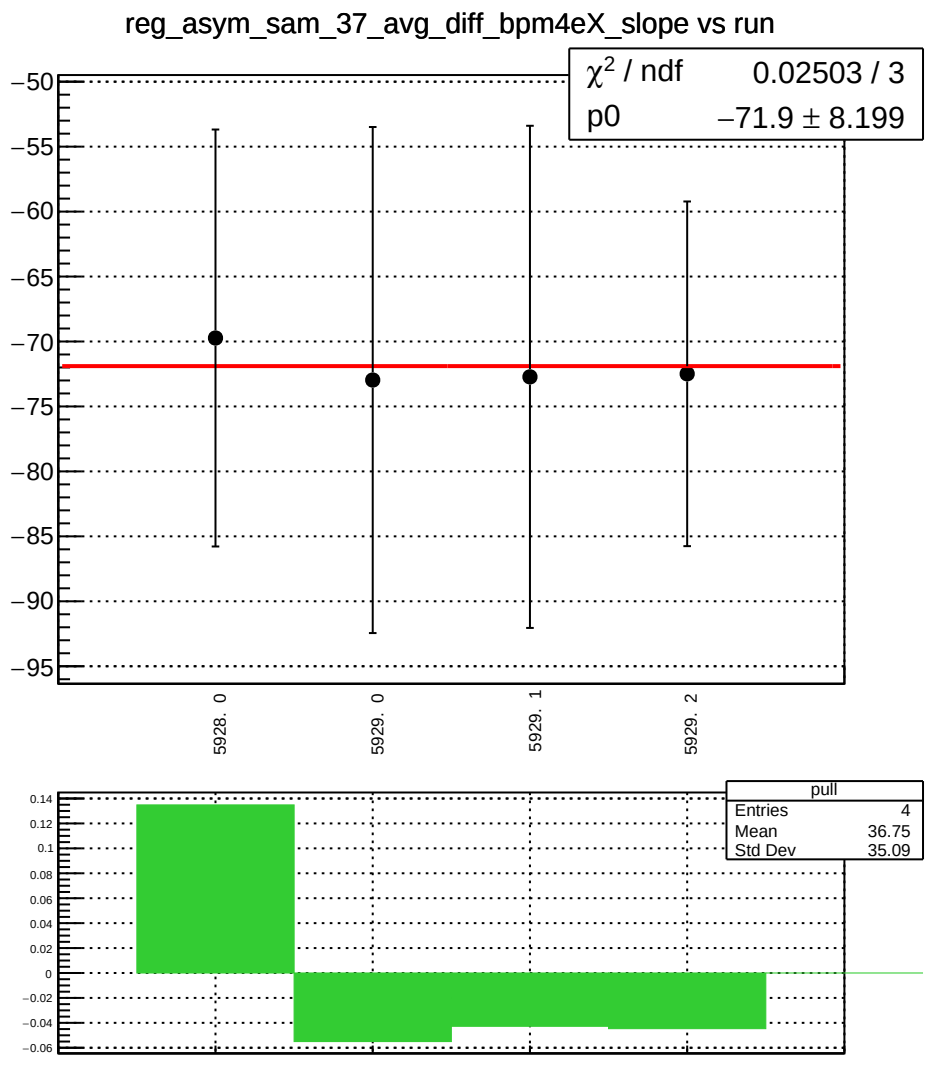

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.02014 / 3
p0 0.6131 ± 0.4571
1.5
1
0.5
0
−0.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.562
Std Dev 8.315
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

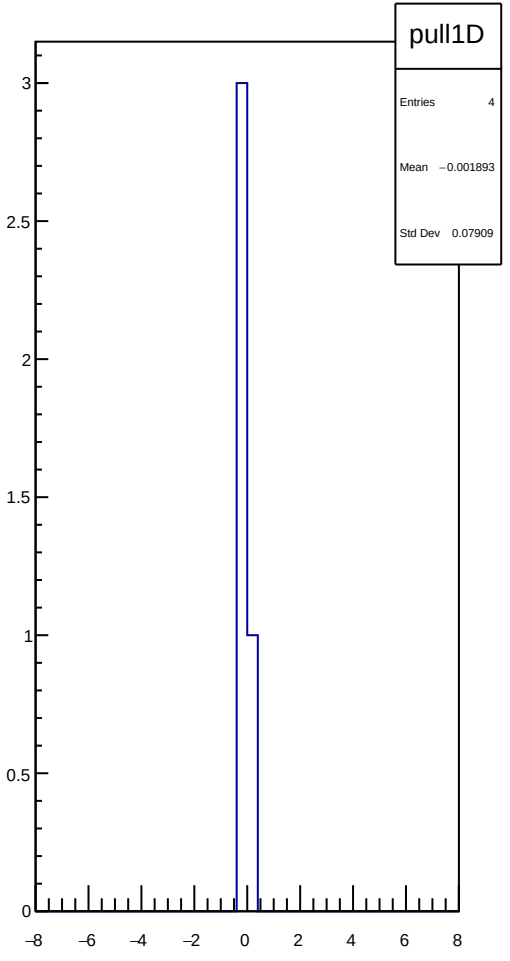

pull1D
Entries 4
Mean −0.008426
Std Dev 0.07045
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

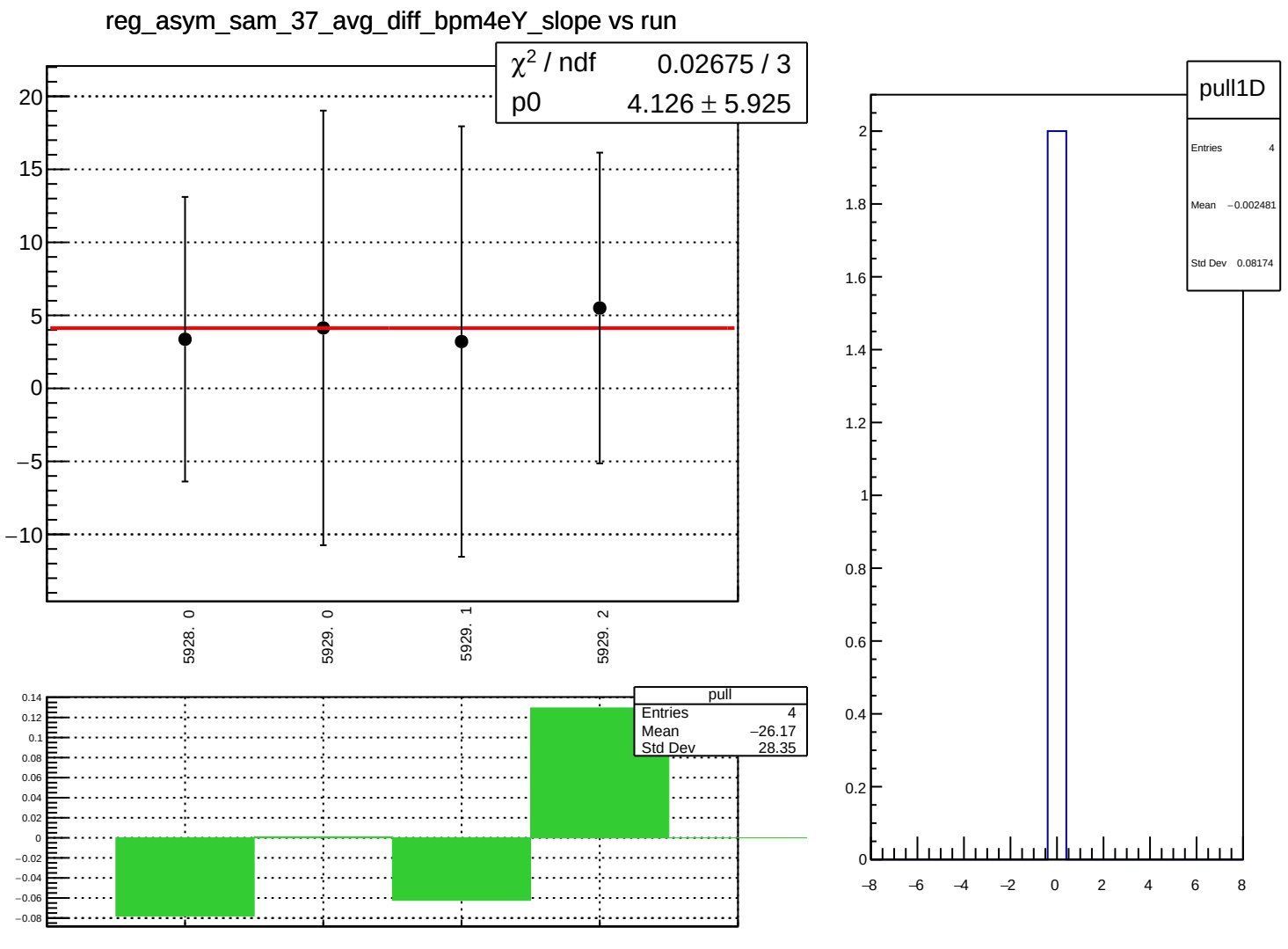

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.005832 / 3
p0 −7.449 ± 6.488
10
5
0
−5
−10
−15
−20
−25
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.4167
Std Dev 3.303
0.06
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean 0.005165
Std Dev 0.03783
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

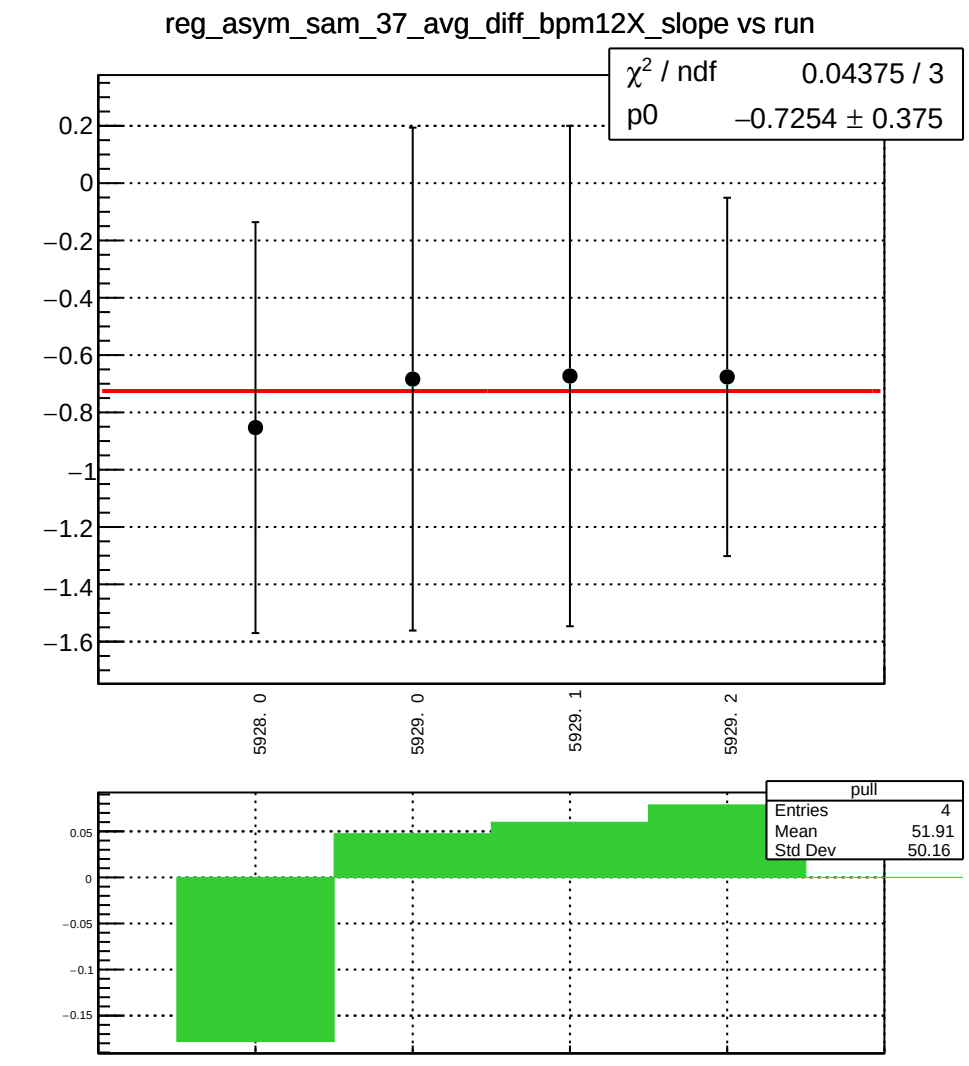

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.02019 / 3
p0 5.35 ± 5.317
20
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 58.27
Std Dev 56.18
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1

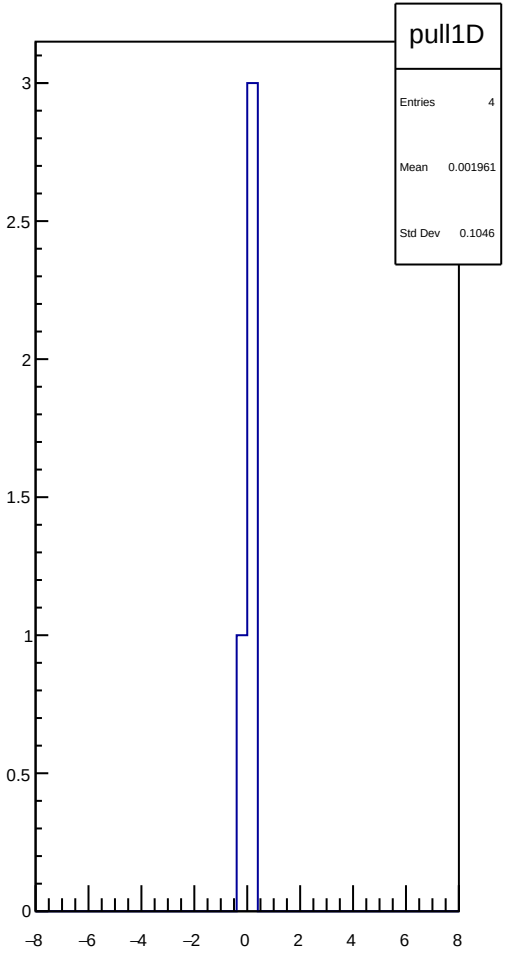

pull1D
Entries 4
Mean −0.001079
Std Dev 0.07104
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

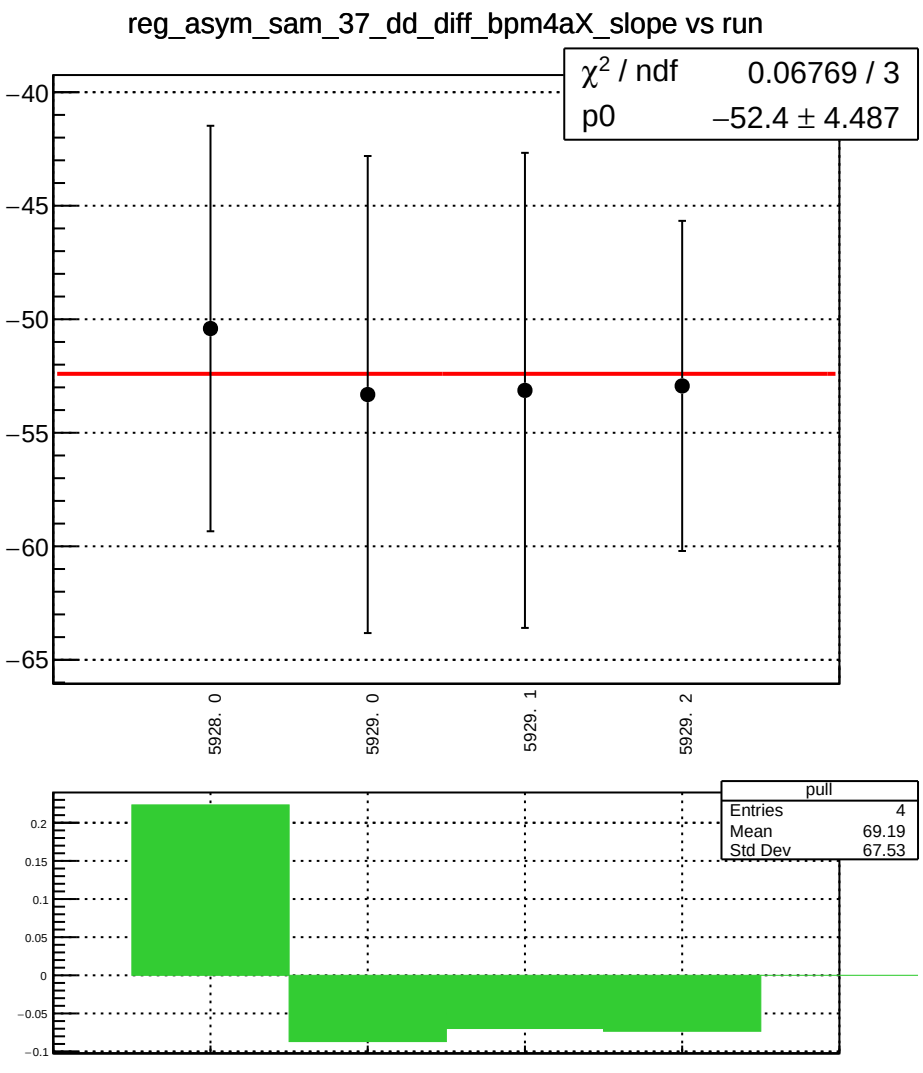

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.02503 / 3
p0 −71.9 ± 8.199
−50
−55
−60
−65
−70
−75
−80
−85
−90
−95
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 36.75
Std Dev 35.09
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06

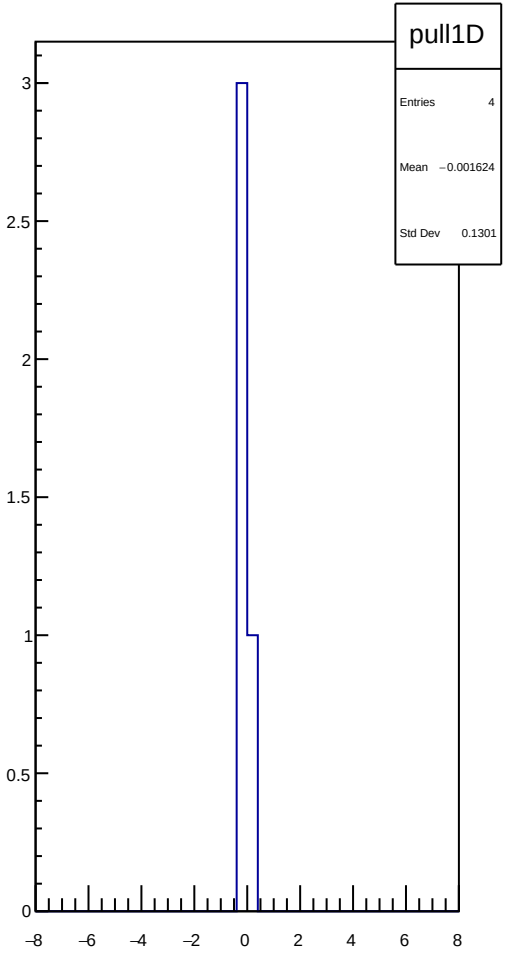

pull1D
Entries 4
Mean −0.001893
Std Dev 0.07909
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

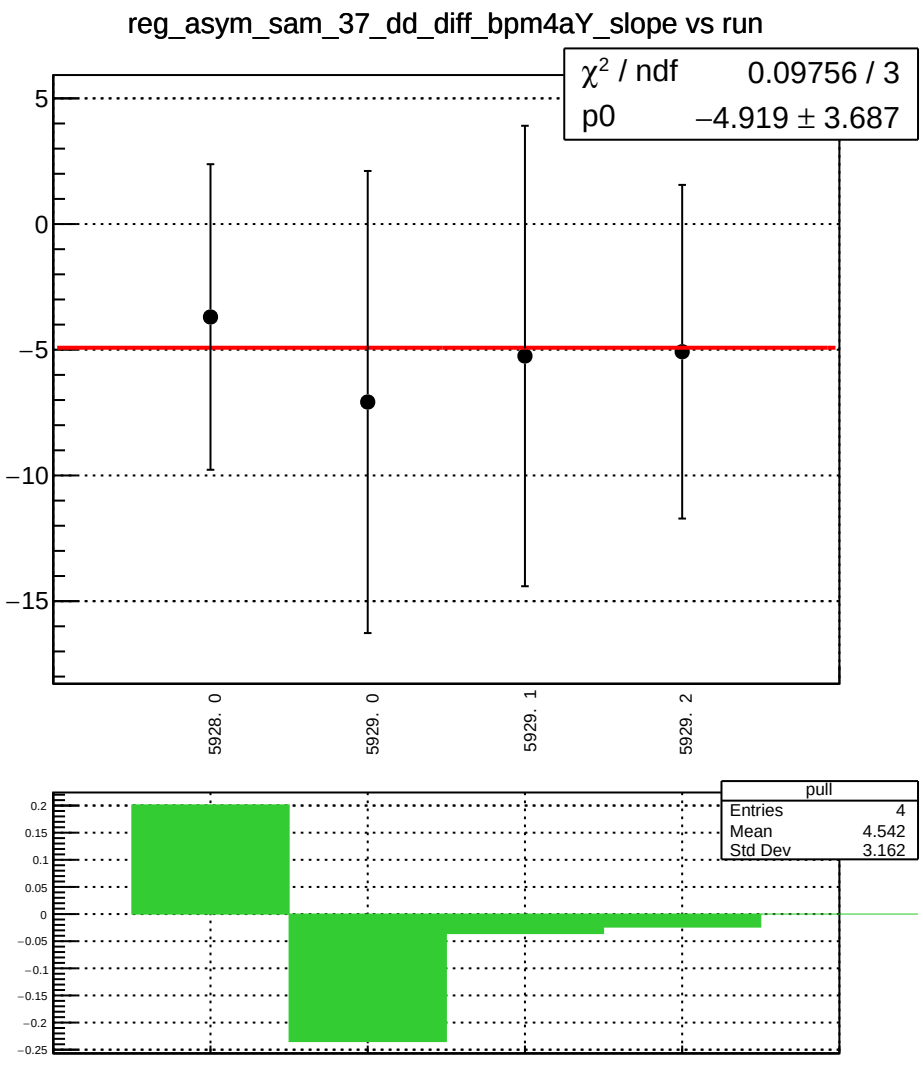

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.02675 / 3
p0 4.126 ± 5.925
20
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −26.17
Std Dev 28.35
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.002481
Std Dev 0.08174
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

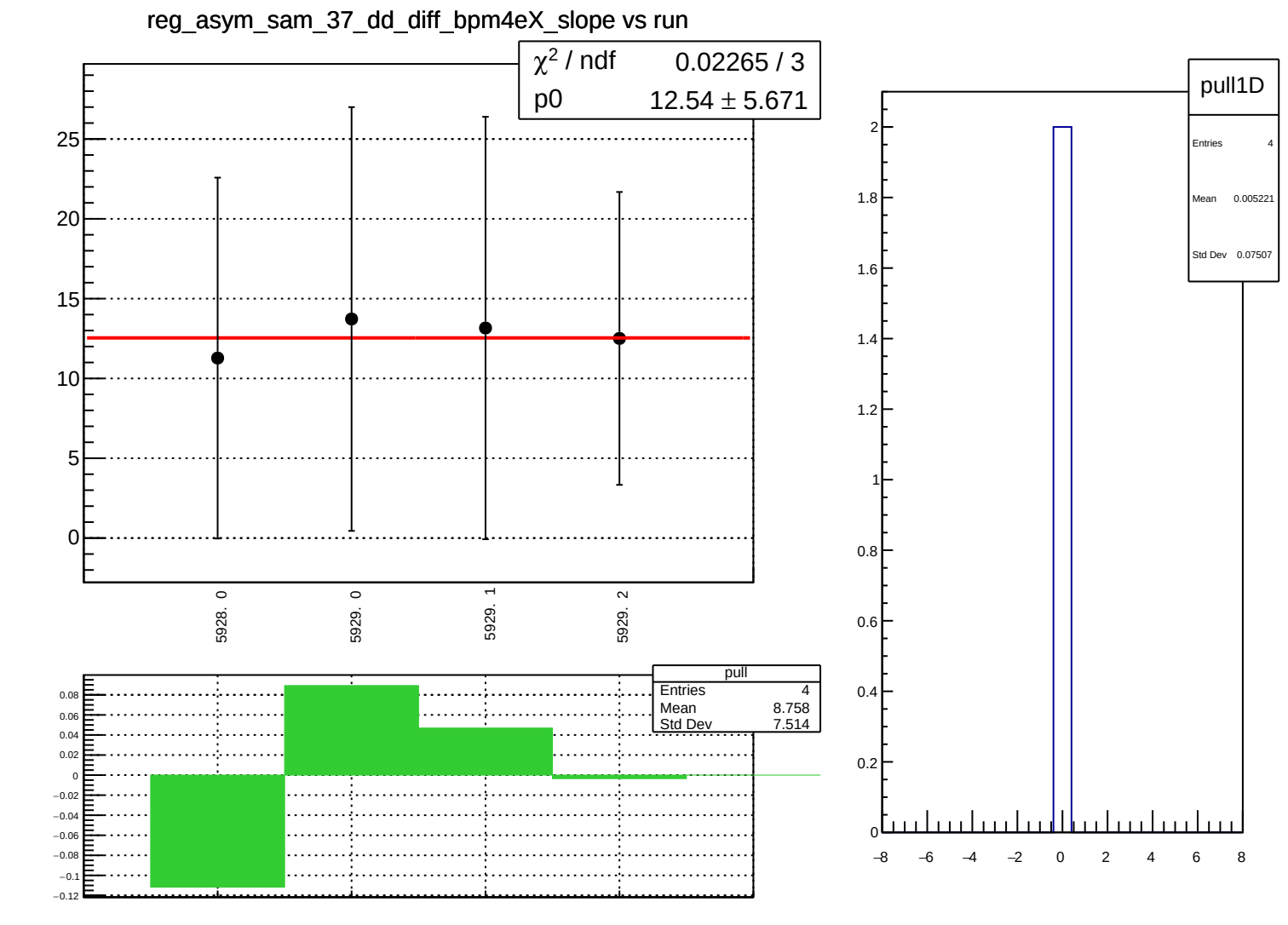

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.04375 / 3
p0 −0.7254 ± 0.375
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 51.91
Std Dev 50.16
0.05
0
−0.05
−0.1
−0.15

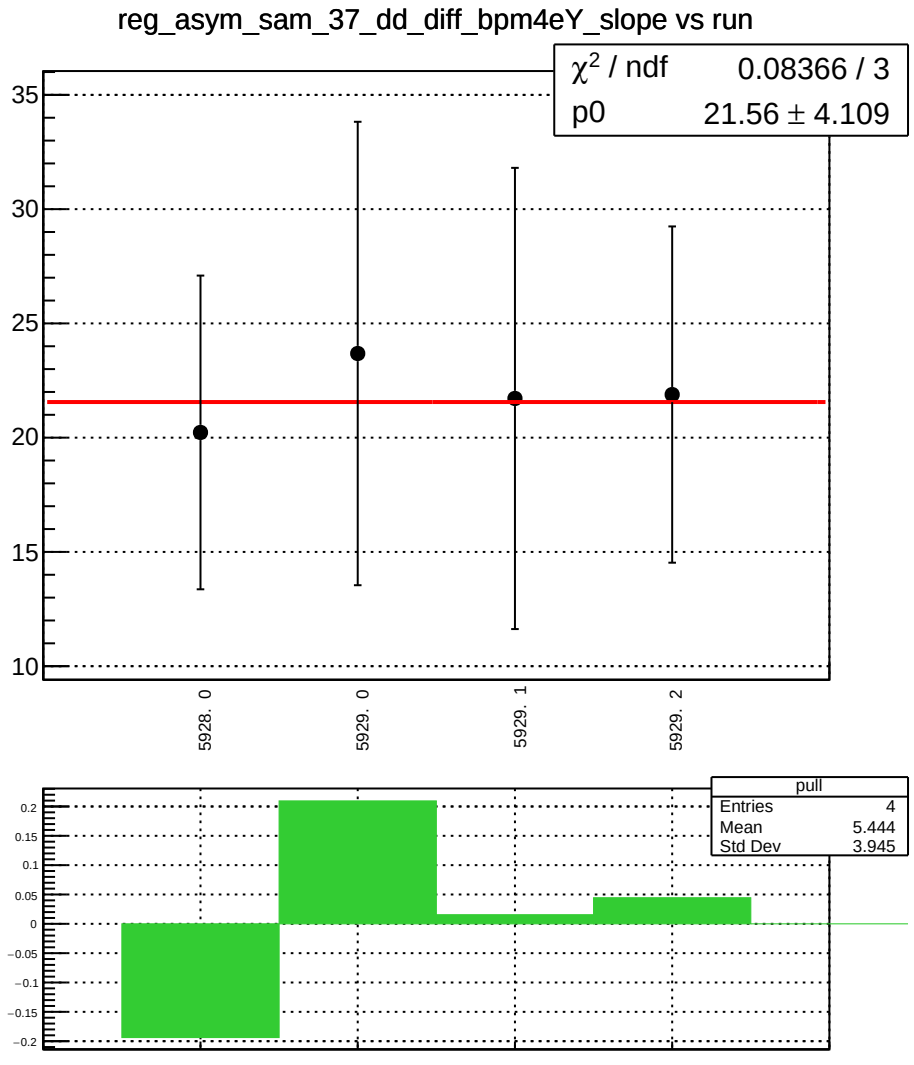

pull1D
Entries 4
Mean 0.001961
Std Dev 0.1046
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

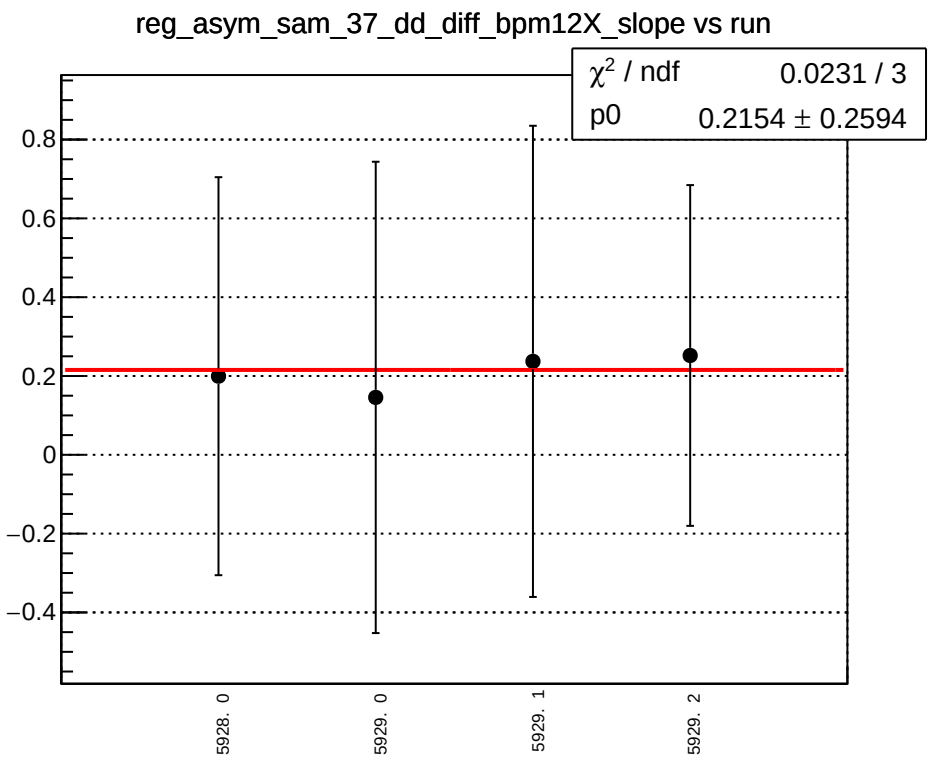

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.06769 / 3
p0 −52.4 ± 4.487
−40
−45
−50
−55
−60
−65
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 69.19
Std Dev 67.53
0.2
0.15
0.1
0.05
0
−0.05
−0.1

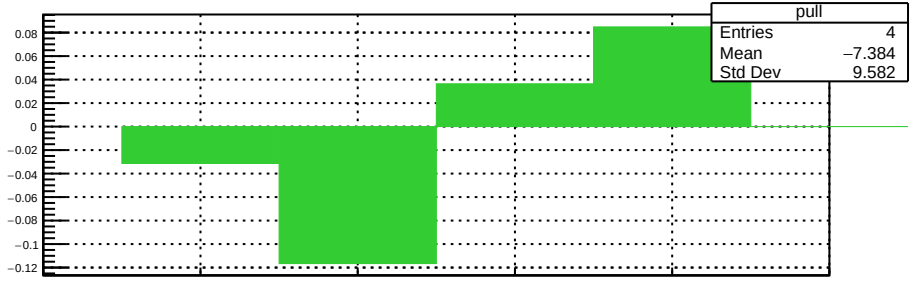

pull1D
Entries 4
Mean −0.001624
Std Dev 0.1301
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

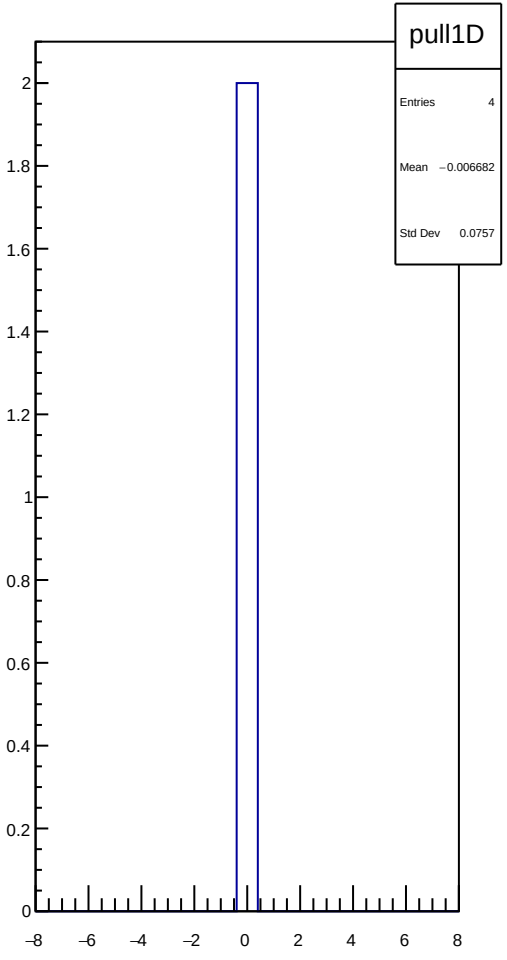

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.09756 / 3
p0 −4.919 ± 3.687
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.542
Std Dev 3.162
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 4
Mean −0.02342
Std Dev 0.1544
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

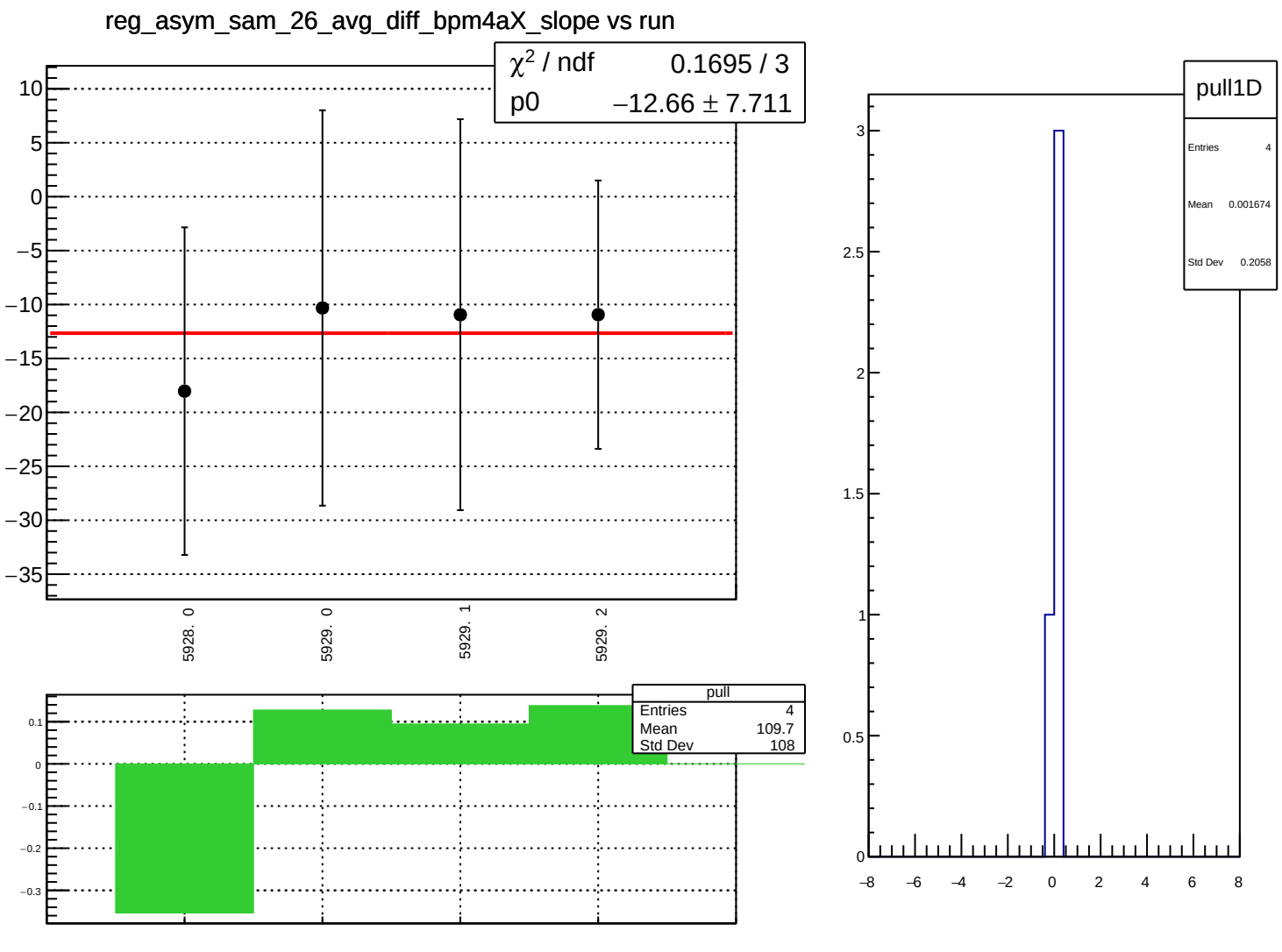

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.02265 / 3
p0 12.54 ± 5.671
25
20
15
10
5
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 8.758
Std Dev 7.514
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull1D
Entries 4
Mean 0.005221
Std Dev 0.07507
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

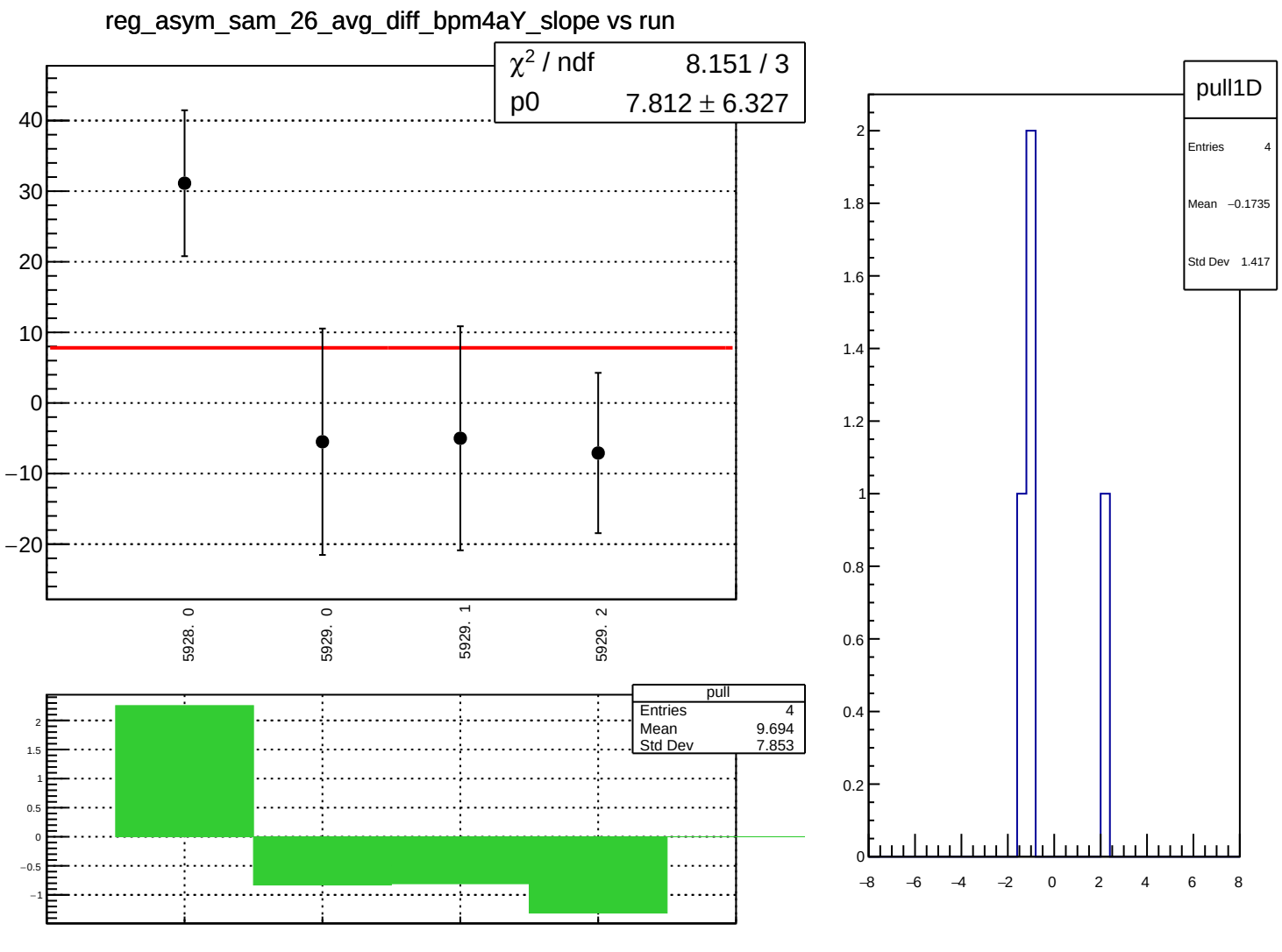

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.08366 / 3
p0 21.56 ± 4.109
35
30
25
20
15
10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.444
Std Dev 3.945
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 4
Mean 0.01891
Std Dev 0.1434
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

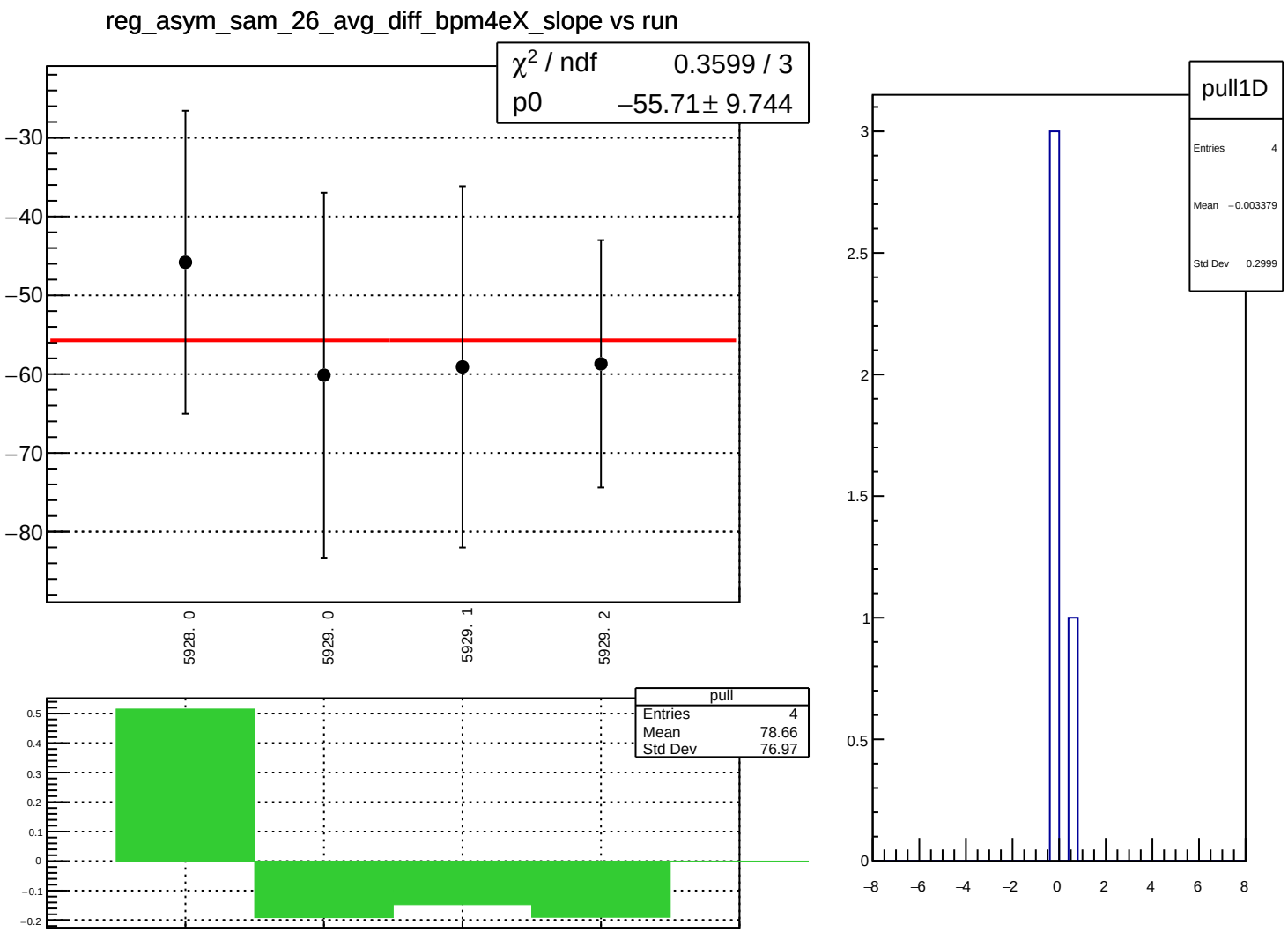

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.0231 / 3
p0 0.2154 ± 0.2594
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5928. 0
5929. 0
5929. 1
5929. 2

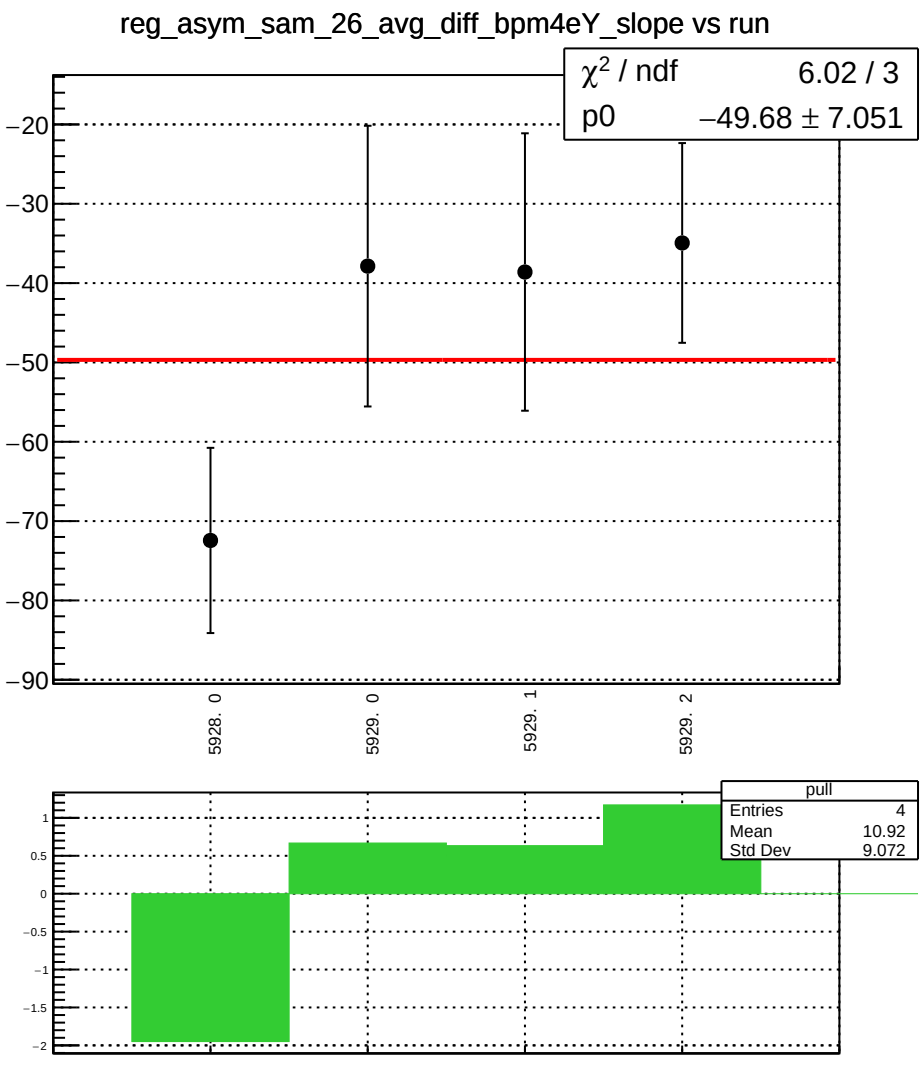

pull
Entries 4
Mean −7.384
Std Dev 9.582
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

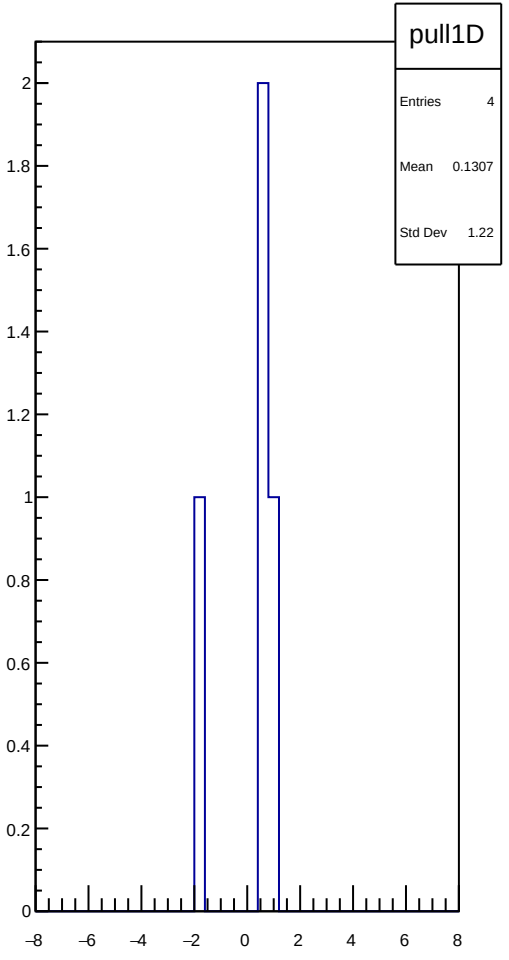

pull1D
Entries 4
Mean −0.006682
Std Dev 0.0757
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

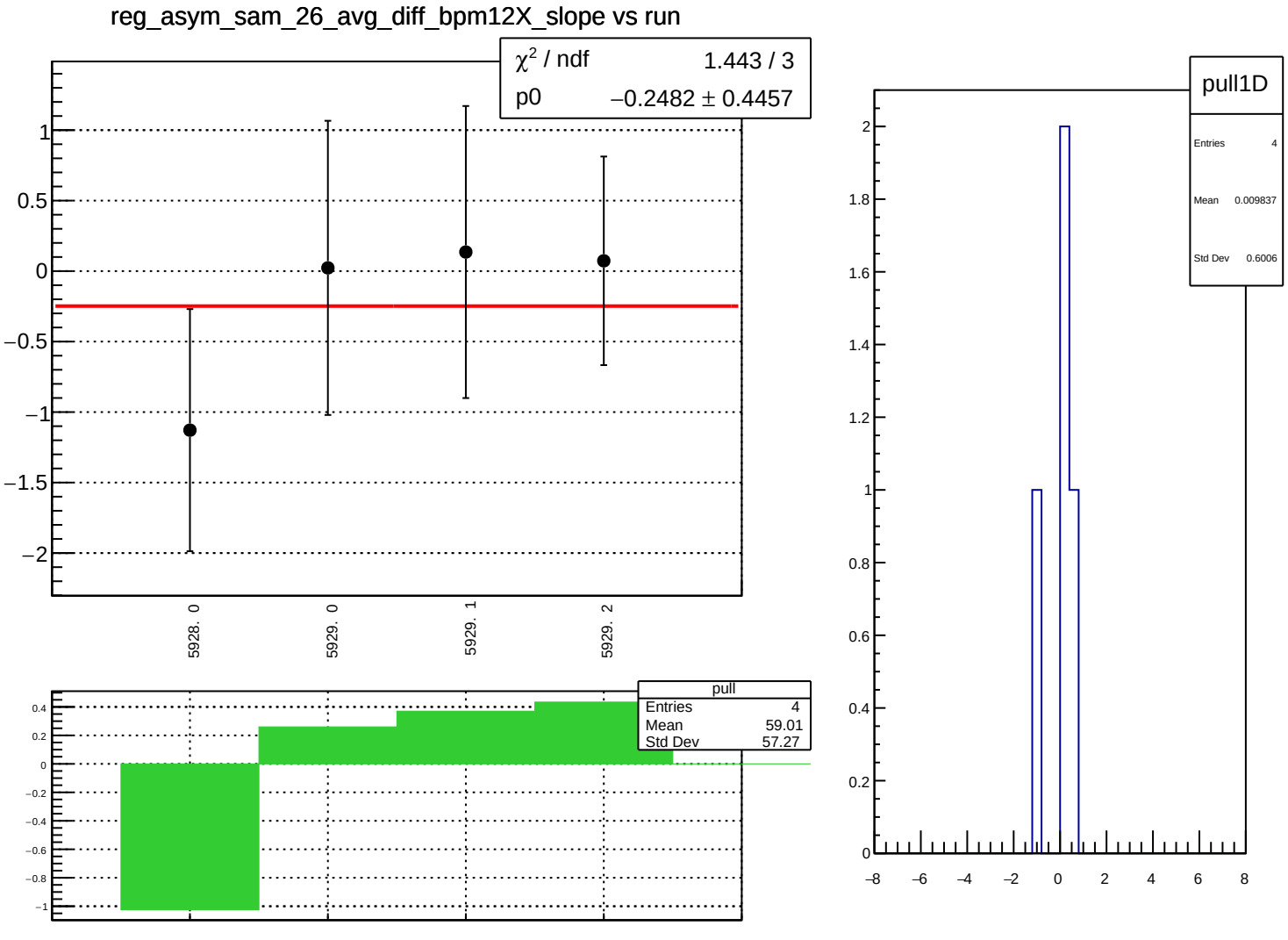

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.1695 / 3
p0 −12.66 ± 7.711
10
5
0
−5
−10
−15
−20
−25
−30
−35
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 109.7
Std Dev 108
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.001674
Std Dev 0.2058
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

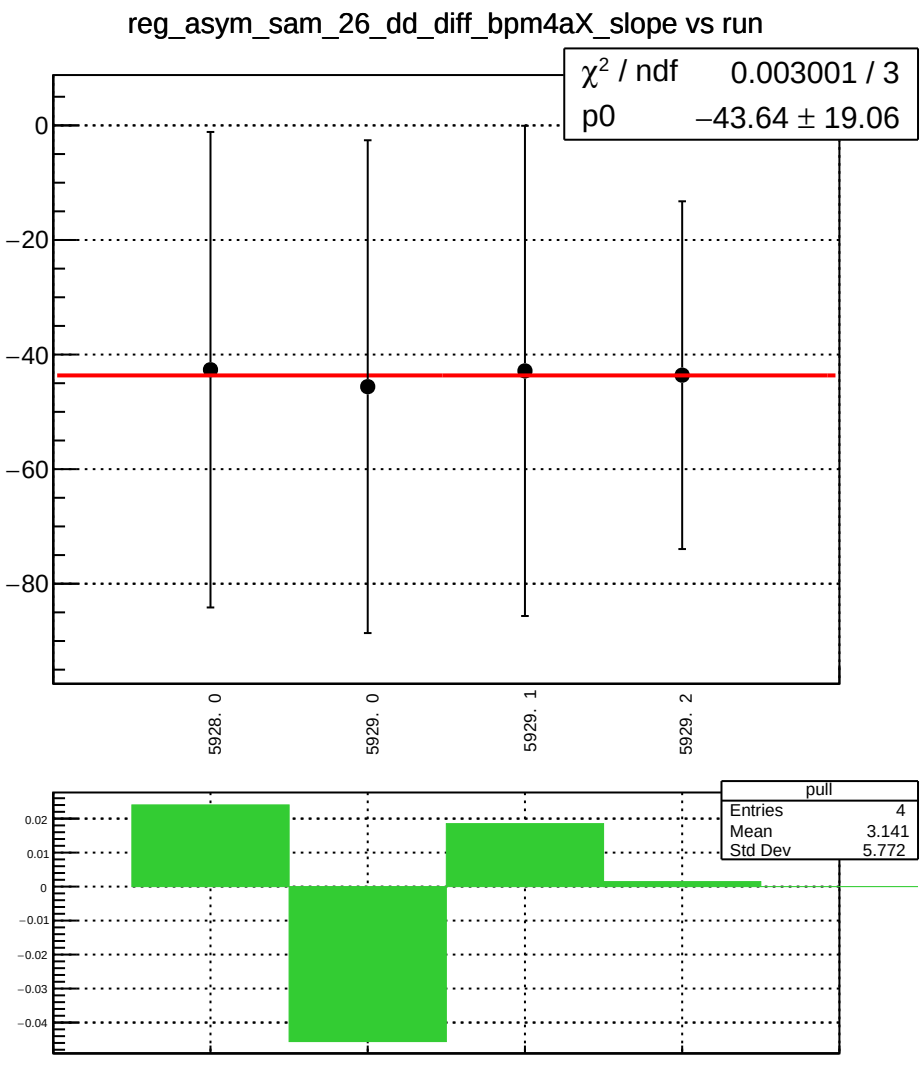

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.151 / 3
p0 7.812 ± 6.327
40
30
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.694
Std Dev 7.853
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.1735
Std Dev 1.417
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

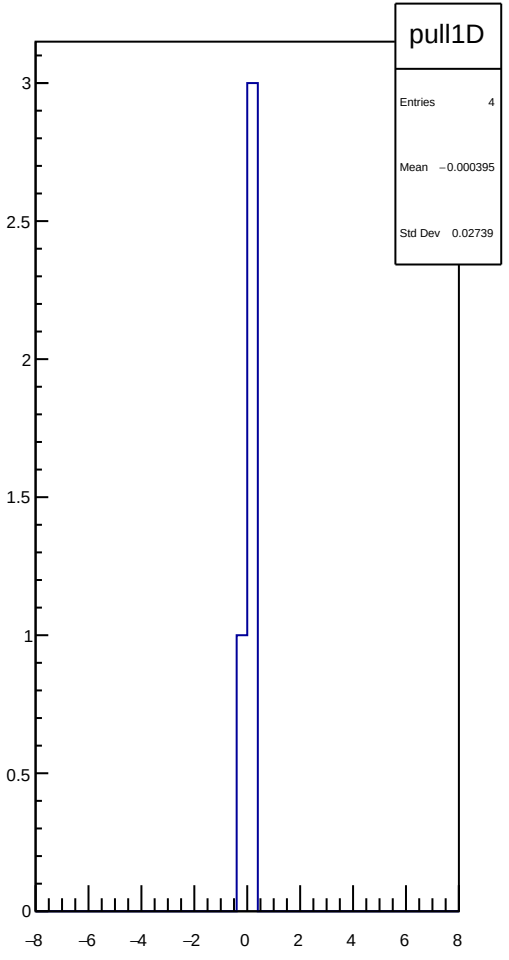

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3599 / 3
p0 −55.71± 9.744
−30
−40
−50
−60
−70
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 78.66
Std Dev 76.97
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.003379
Std Dev 0.2999
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

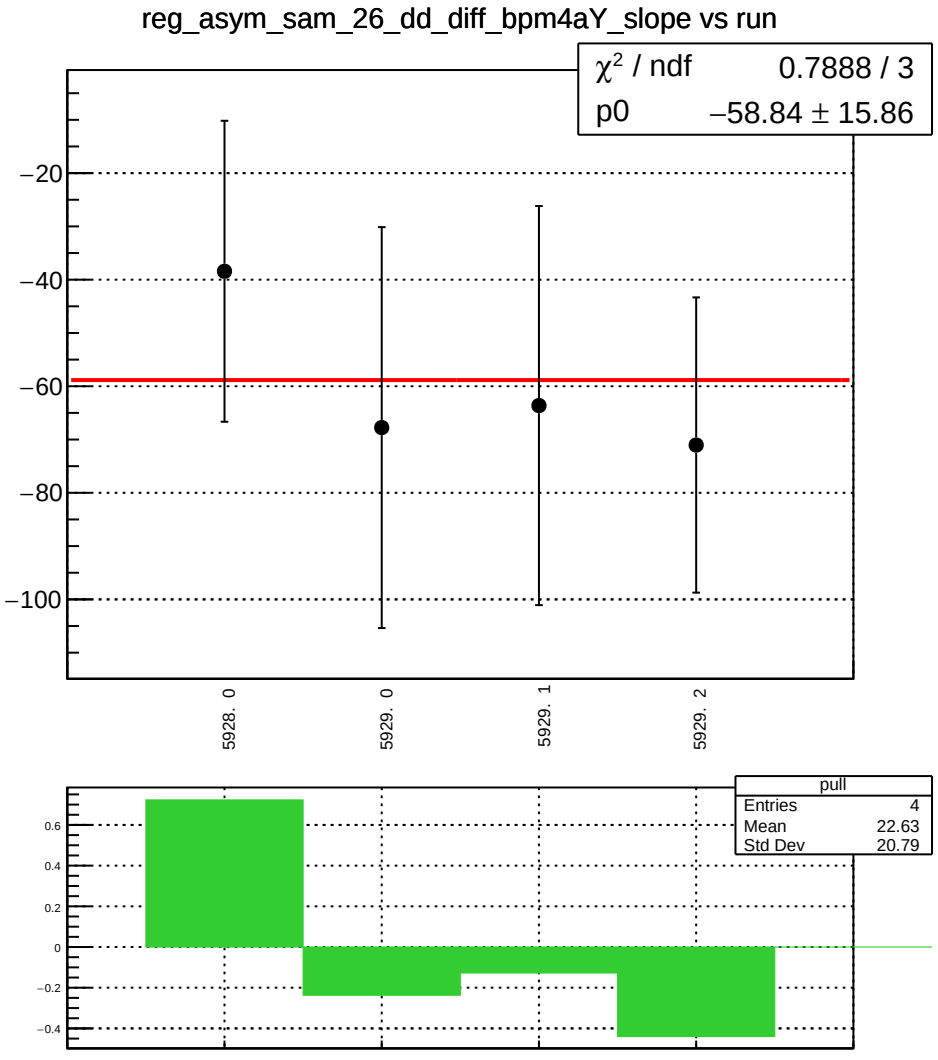

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.02 / 3
p0 −49.68 ± 7.051
−20
−30
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.92
Std Dev 9.072
1
0.5
0
−0.5
−1
−1.5
−2

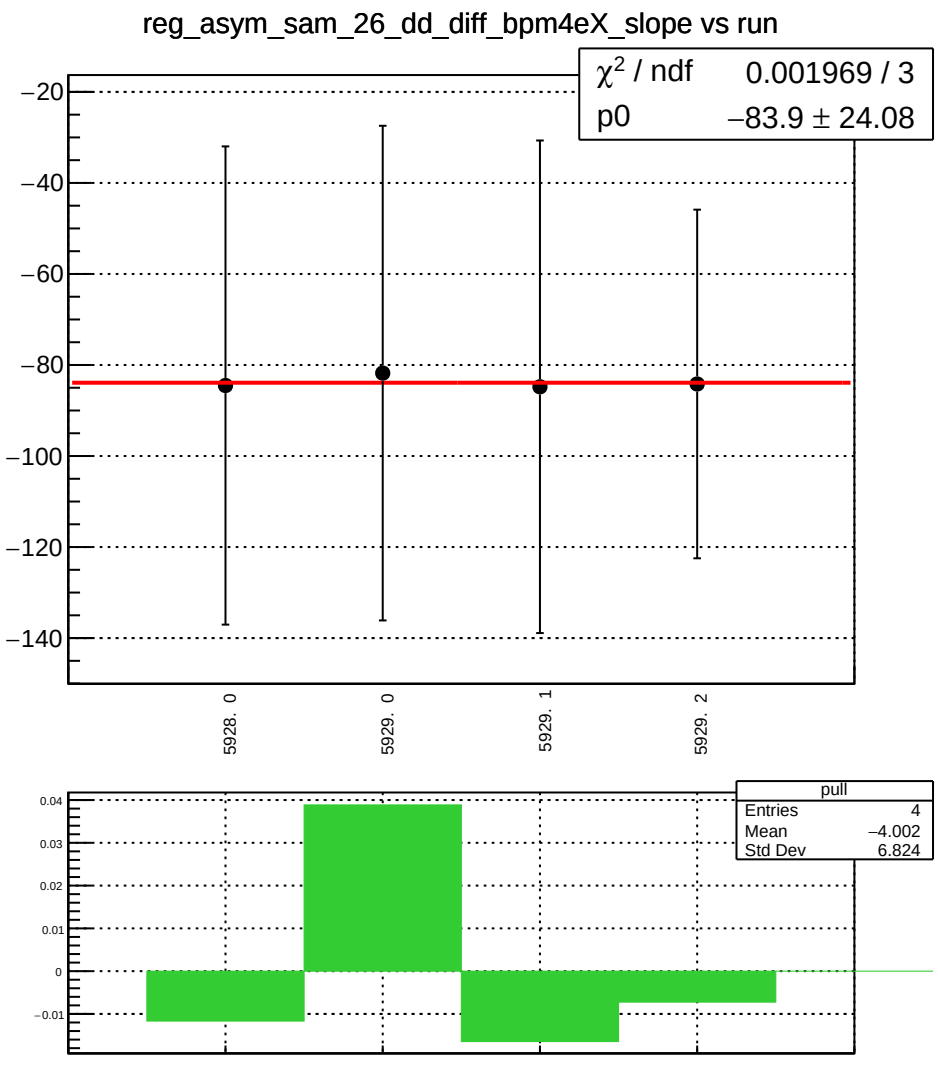

pull1D
Entries 4
Mean 0.1307
Std Dev 1.22
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

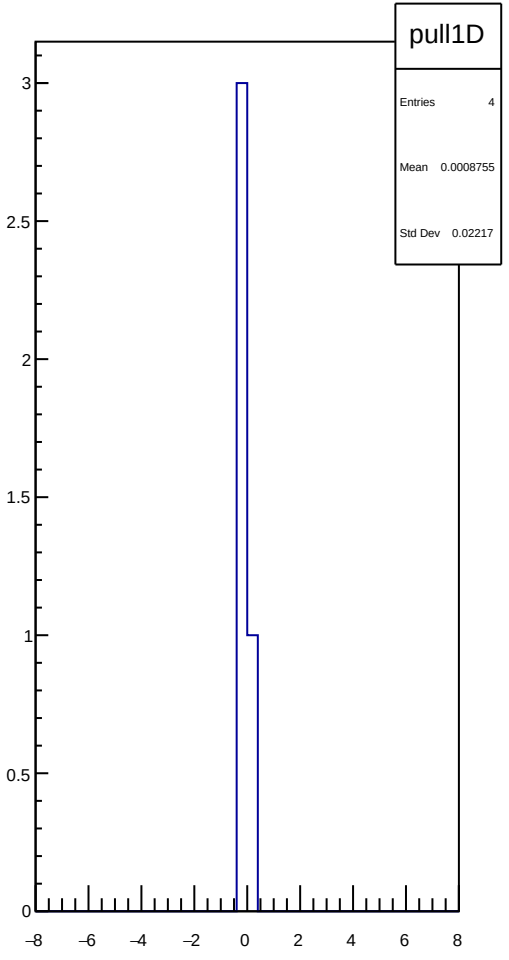

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.443 / 3
p0 −0.2482 ± 0.4457
1
0.5
0
−0.5
−1
−1.5
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 59.01
Std Dev 57.27
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean 0.009837
Std Dev 0.6006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

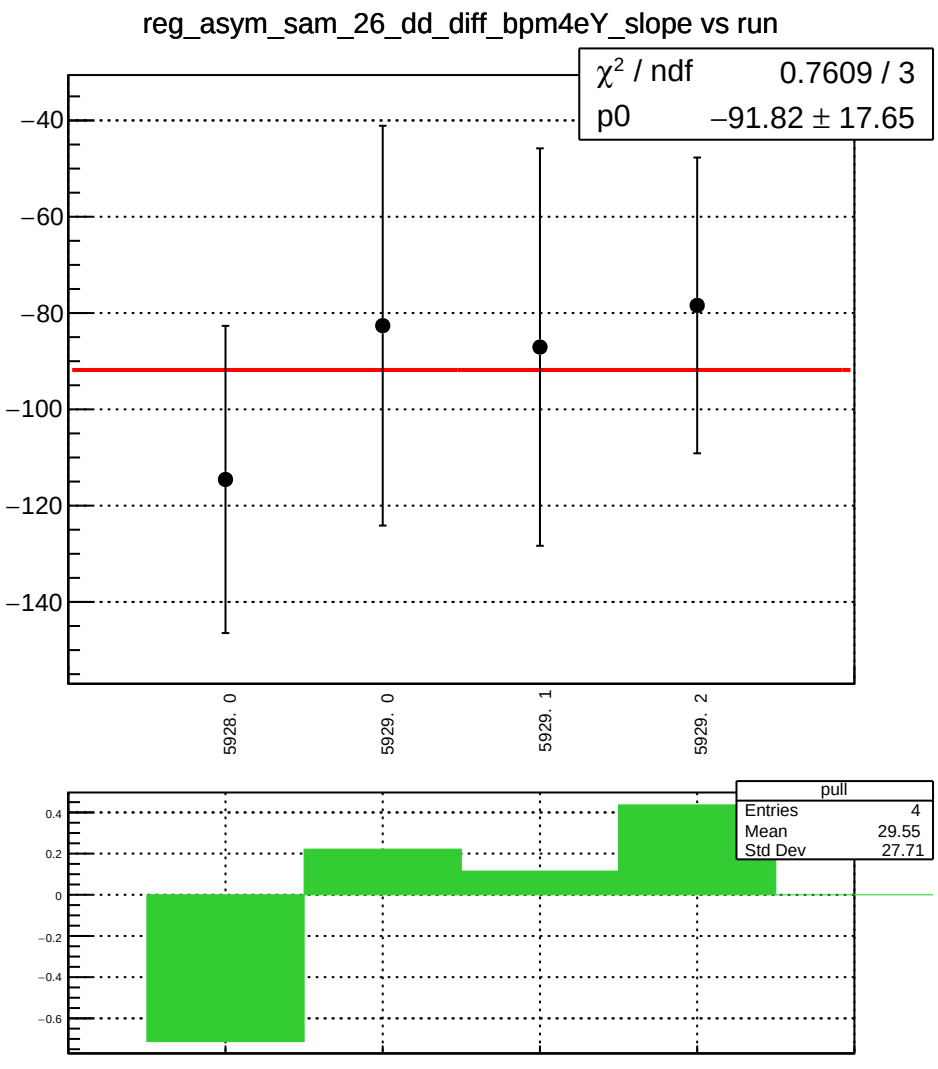

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.003001 / 3
p0 −43.64 ± 19.06
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 3.141
Std Dev 5.772
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04

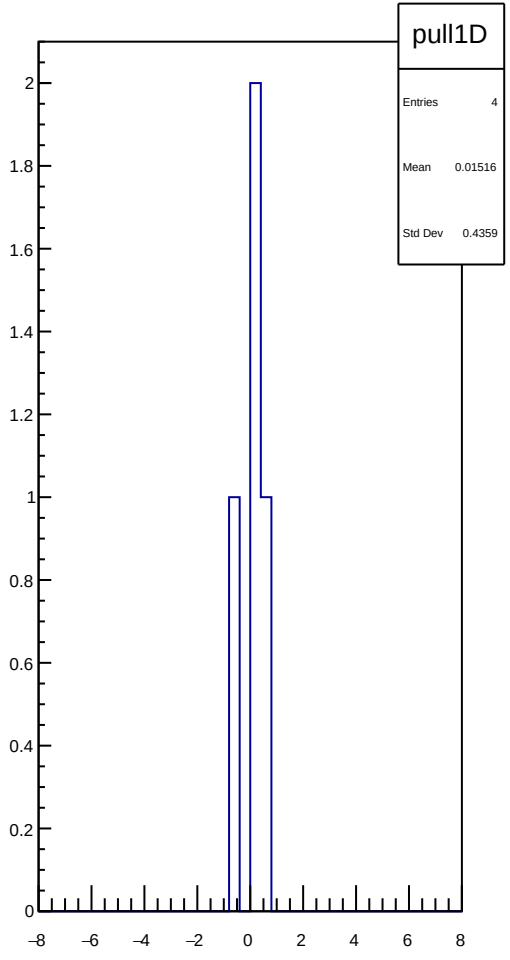

pull1D
Entries 4
Mean −0.000395
Std Dev 0.02739
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

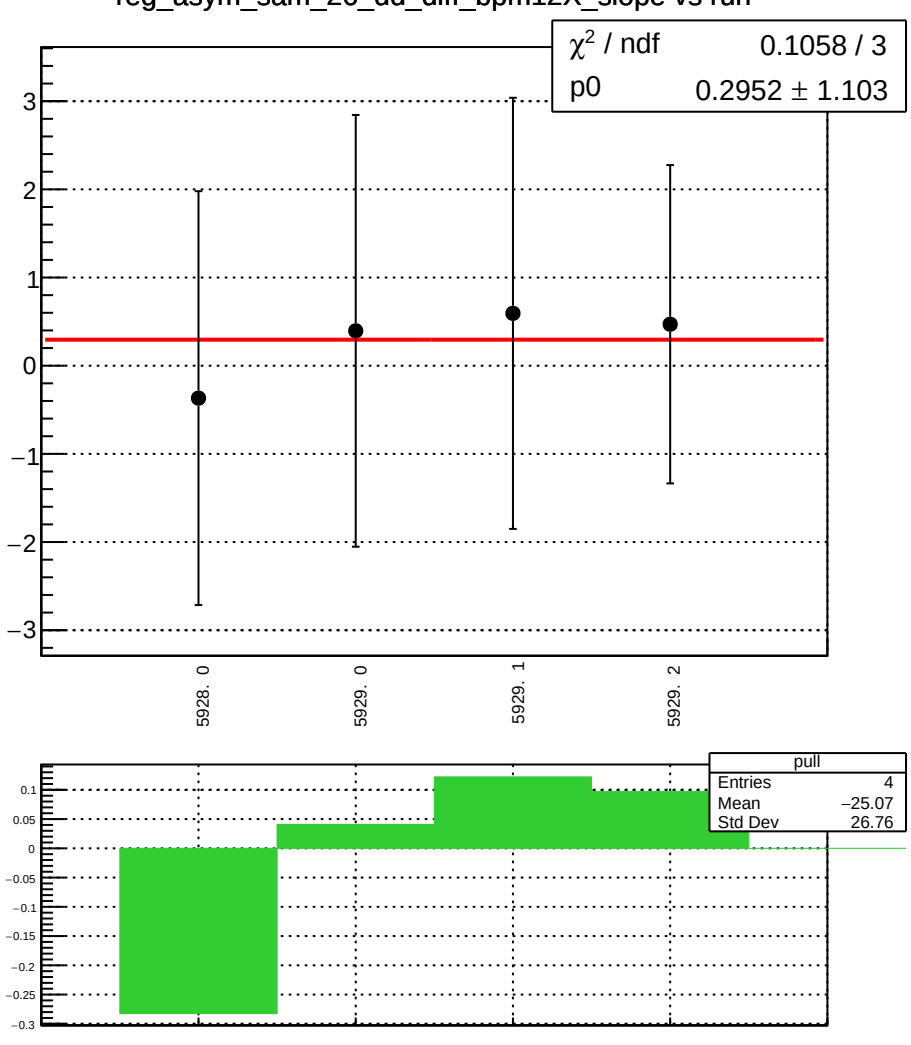

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7888 / 3
p0 −58.84 ± 15.86
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 22.63
Std Dev 20.79
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean −0.02047
Std Dev 0.4436
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

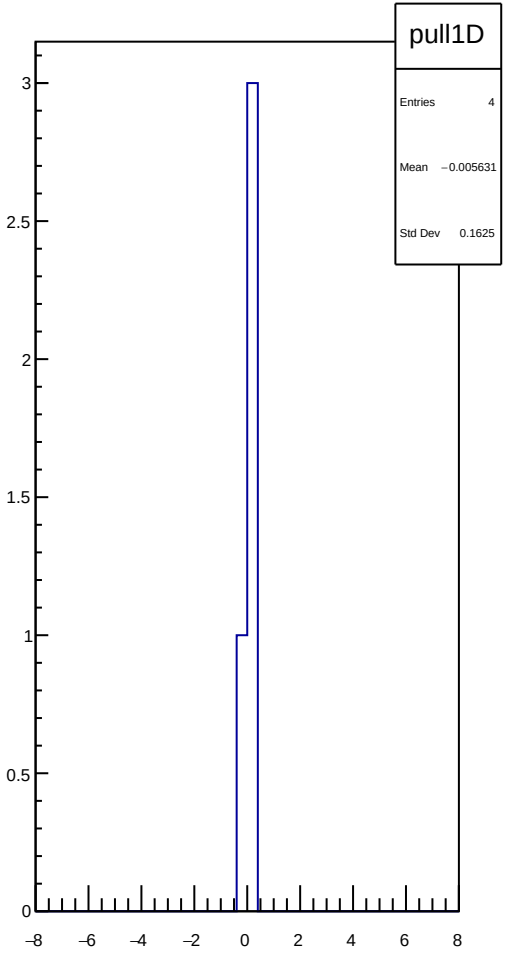

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.001969 / 3
p0 −83.9 ± 24.08
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.002
Std Dev 6.824
0.04
0.03
0.02
0.01
0
−0.01

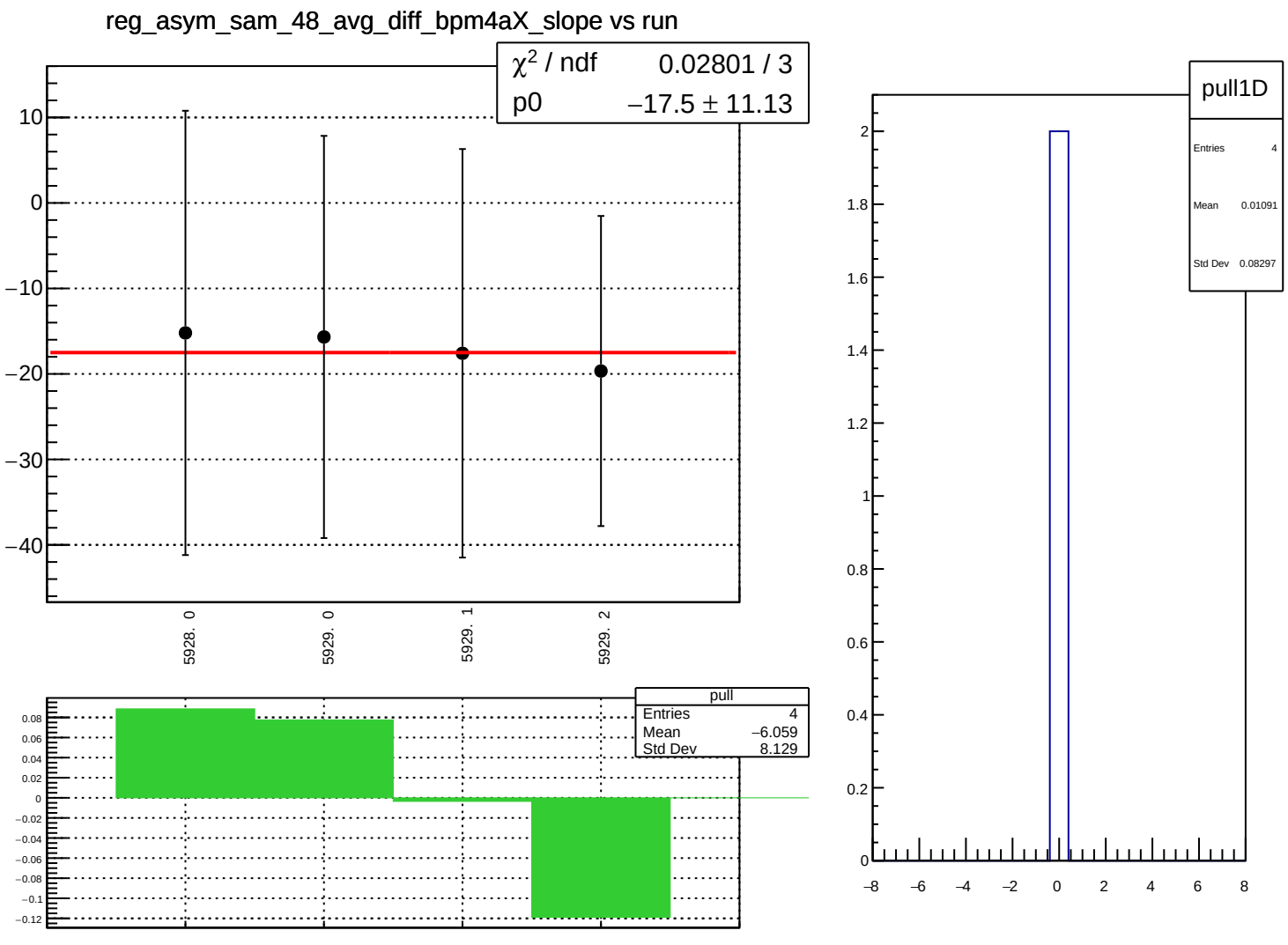

pull1D
Entries 4
Mean 0.0008755
Std Dev 0.02217
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

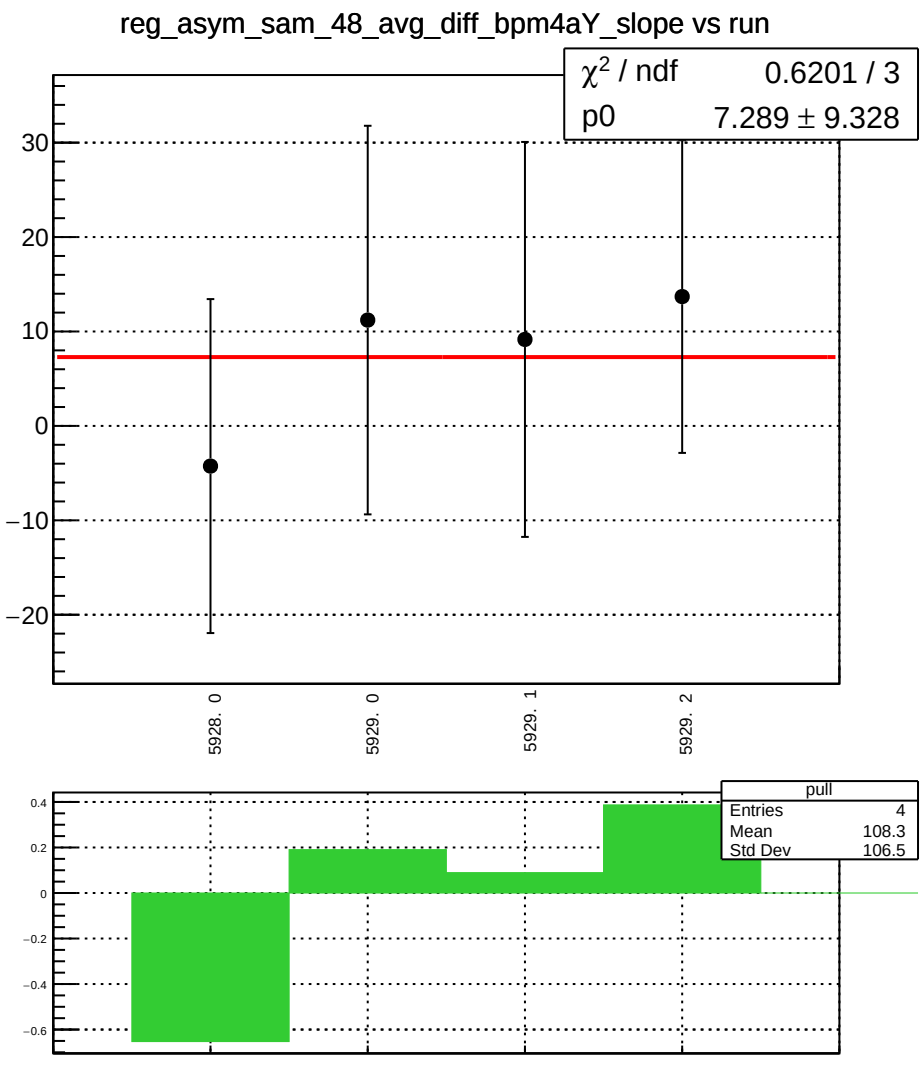

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7609 / 3
p0 −91.82 ± 17.65
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 29.55
Std Dev 27.71
0.4
0.2
0
−0.2
−0.4
−0.6

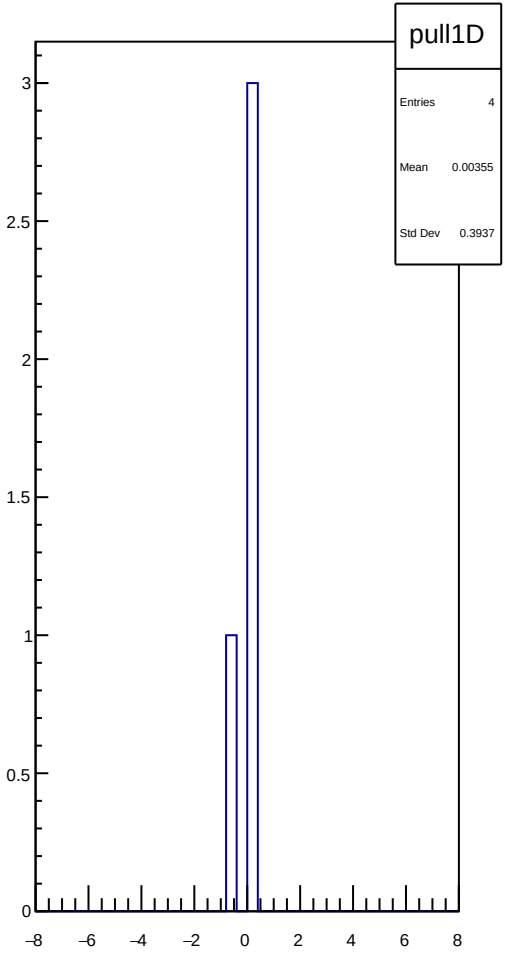

pull1D
Entries 4
Mean 0.01516
Std Dev 0.4359
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

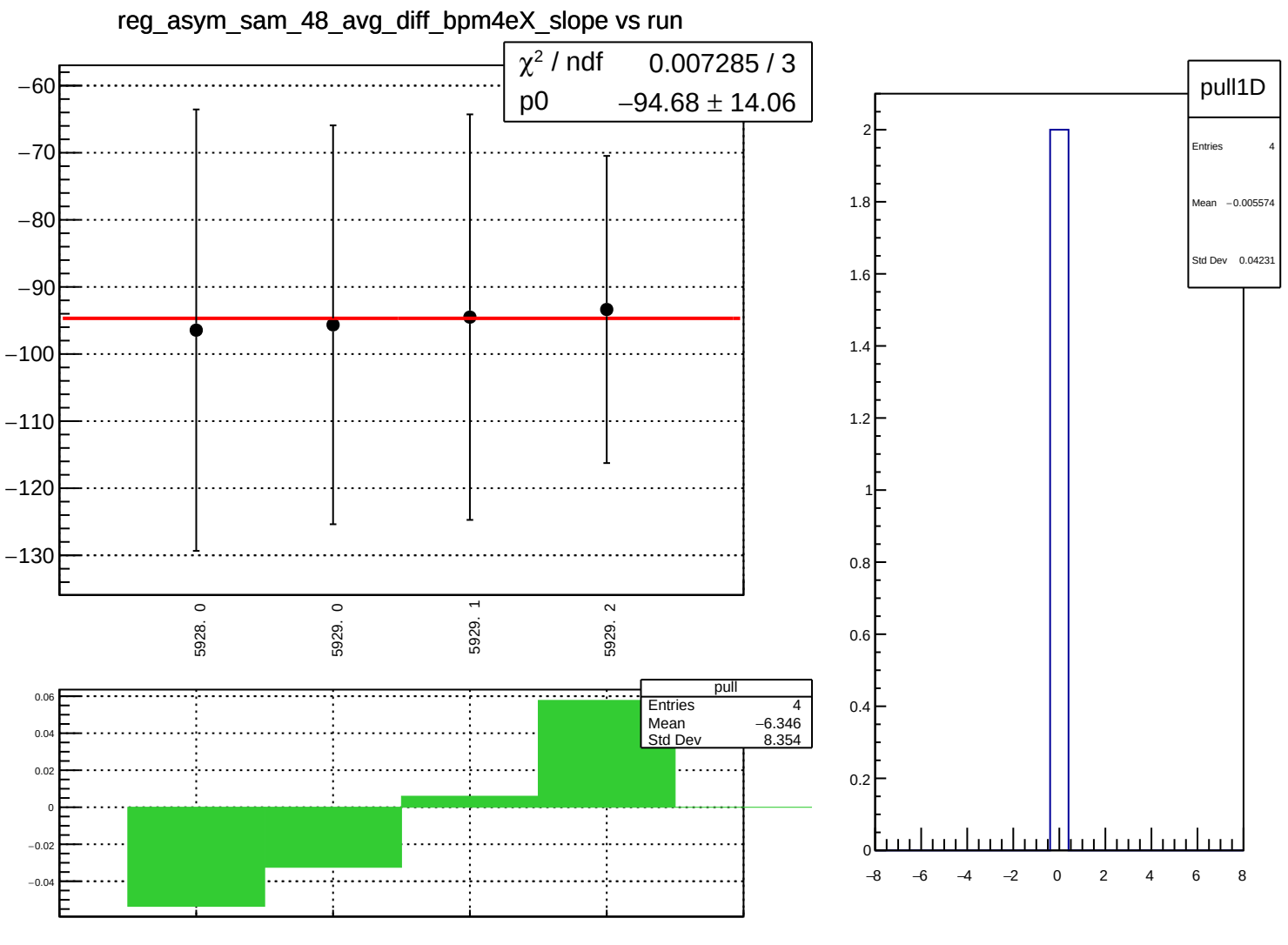

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1058 / 3
p0 0.2952 ± 1.103
3
2
1
0
−1
−2
−3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −25.07
Std Dev 26.76
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3

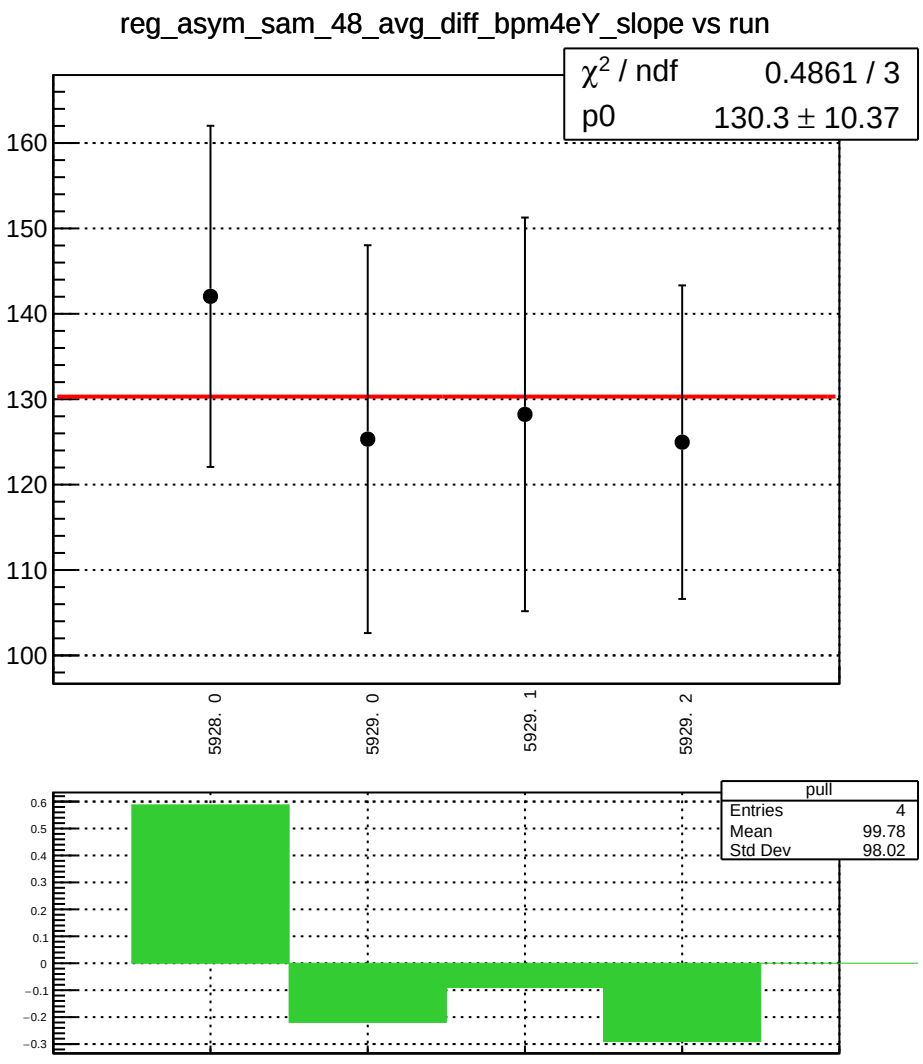

pull1D
Entries 4
Mean −0.005631
Std Dev 0.1625
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

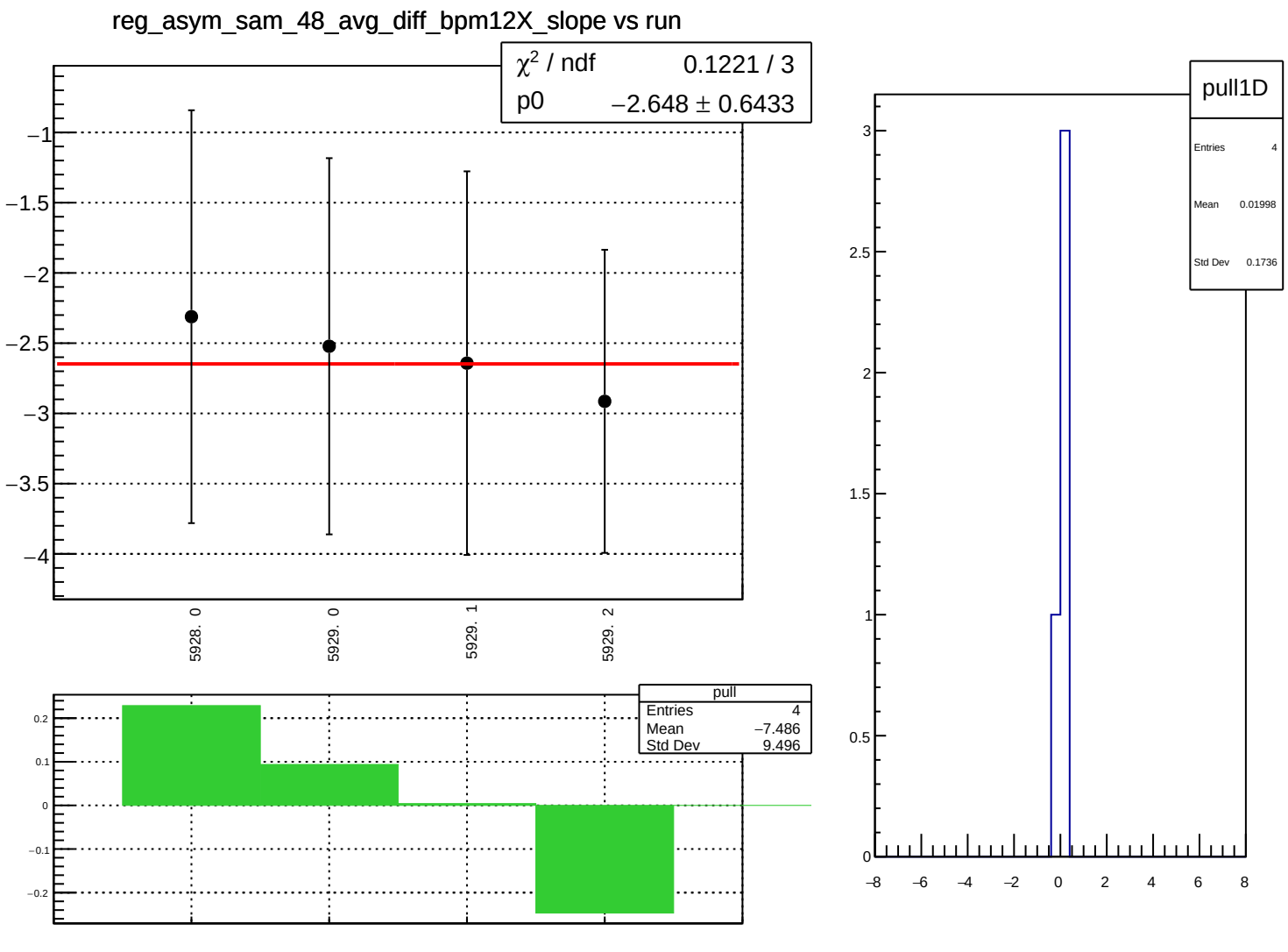

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.02801 / 3
p0 −17.5 ± 11.13
10
0
−10
−20
−30
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.059
Std Dev 8.129
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull1D
Entries 4
Mean 0.01091
Std Dev 0.08297
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

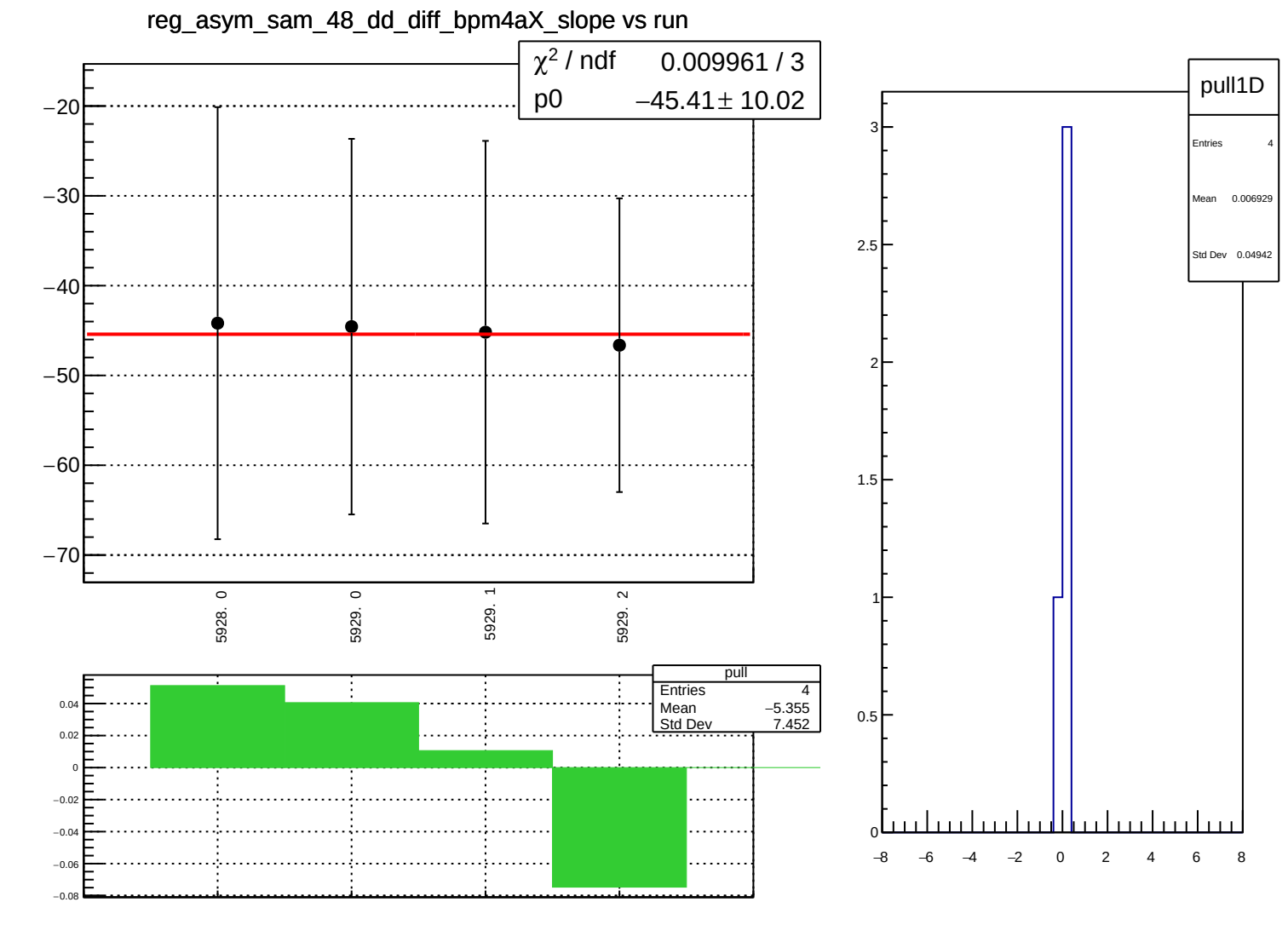

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.6201 / 3
p0 7.289 ± 9.328
30
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 108.3
Std Dev 106.5
0.4
0.2
0
−0.2
−0.4
−0.6

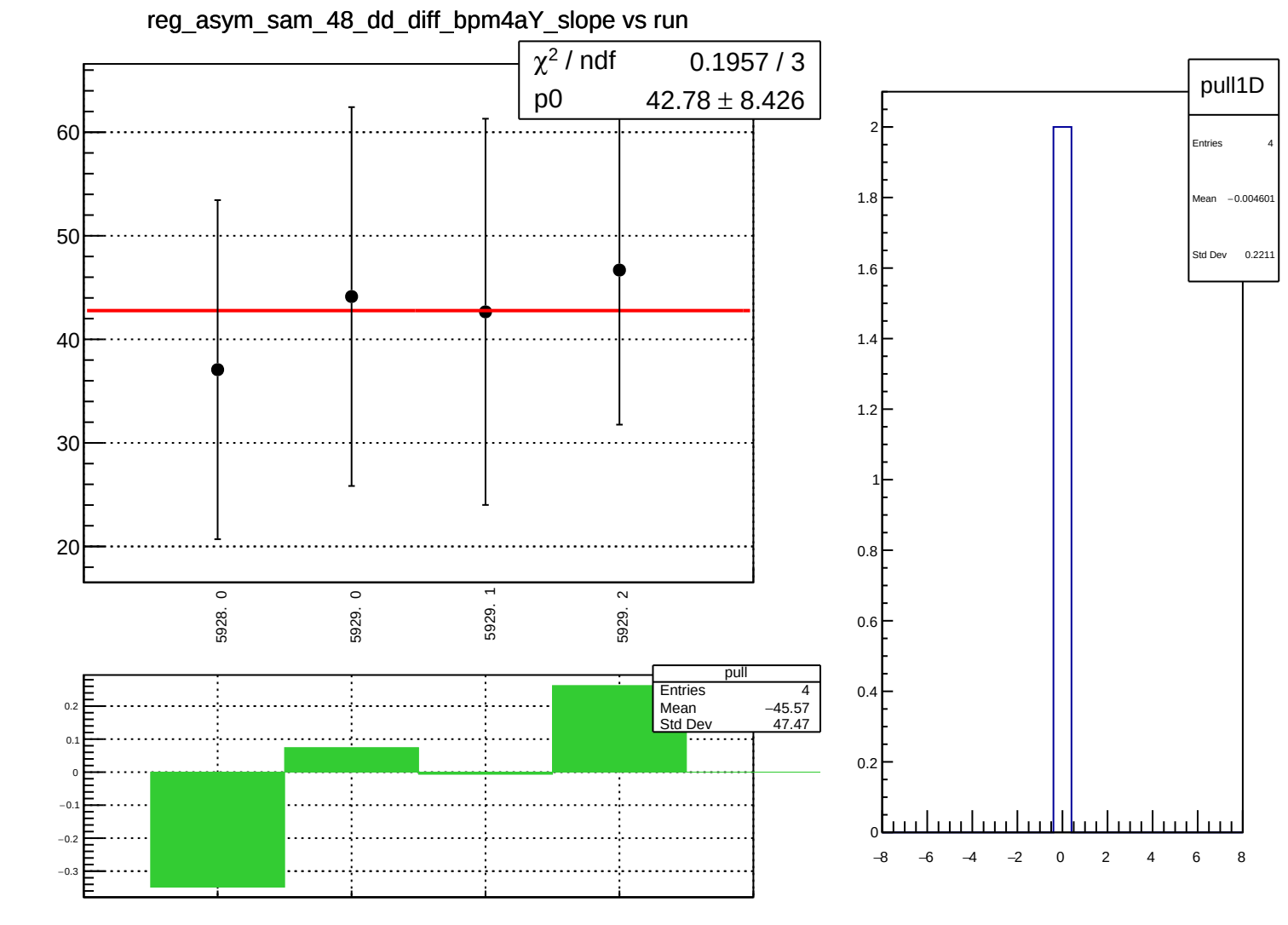

pull1D
Entries 4
Mean 0.00355
Std Dev 0.3937
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

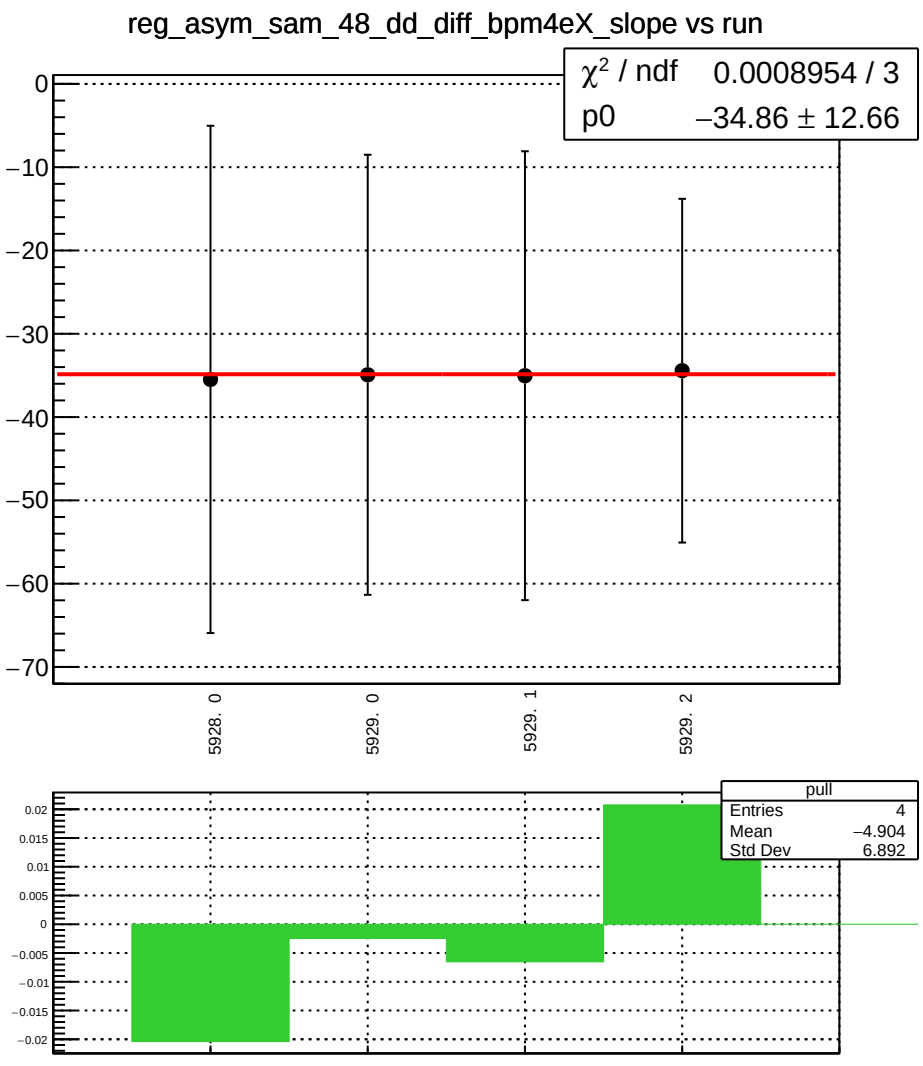

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.007285 / 3
p0 −94.68 ± 14.06
−60
−70
−80
−90
−100
−110
−120
−130
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.346
Std Dev 8.354
0.06
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean −0.005574
Std Dev 0.04231
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

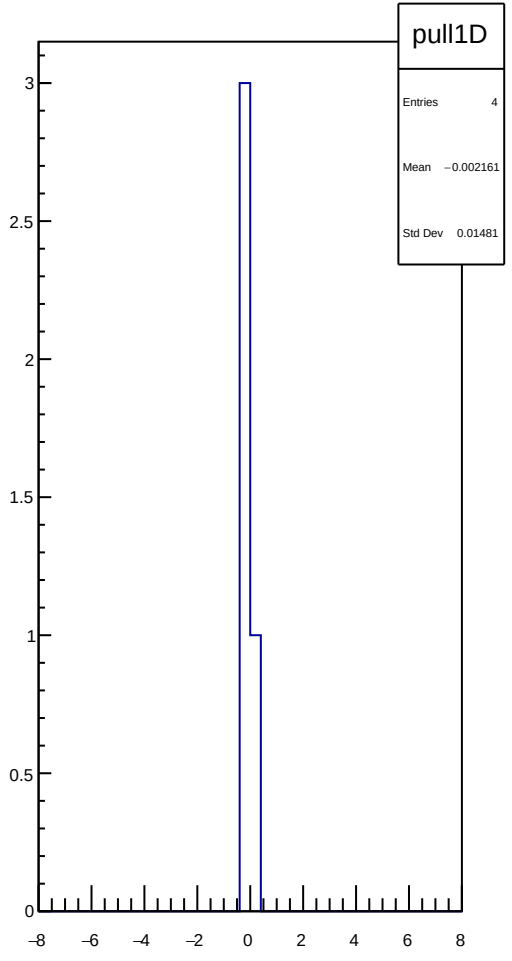

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4861 / 3
p0 130.3 ± 10.37
160
150
140
130
120
110
100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 99.78
Std Dev 98.02
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.003203
Std Dev 0.3486
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

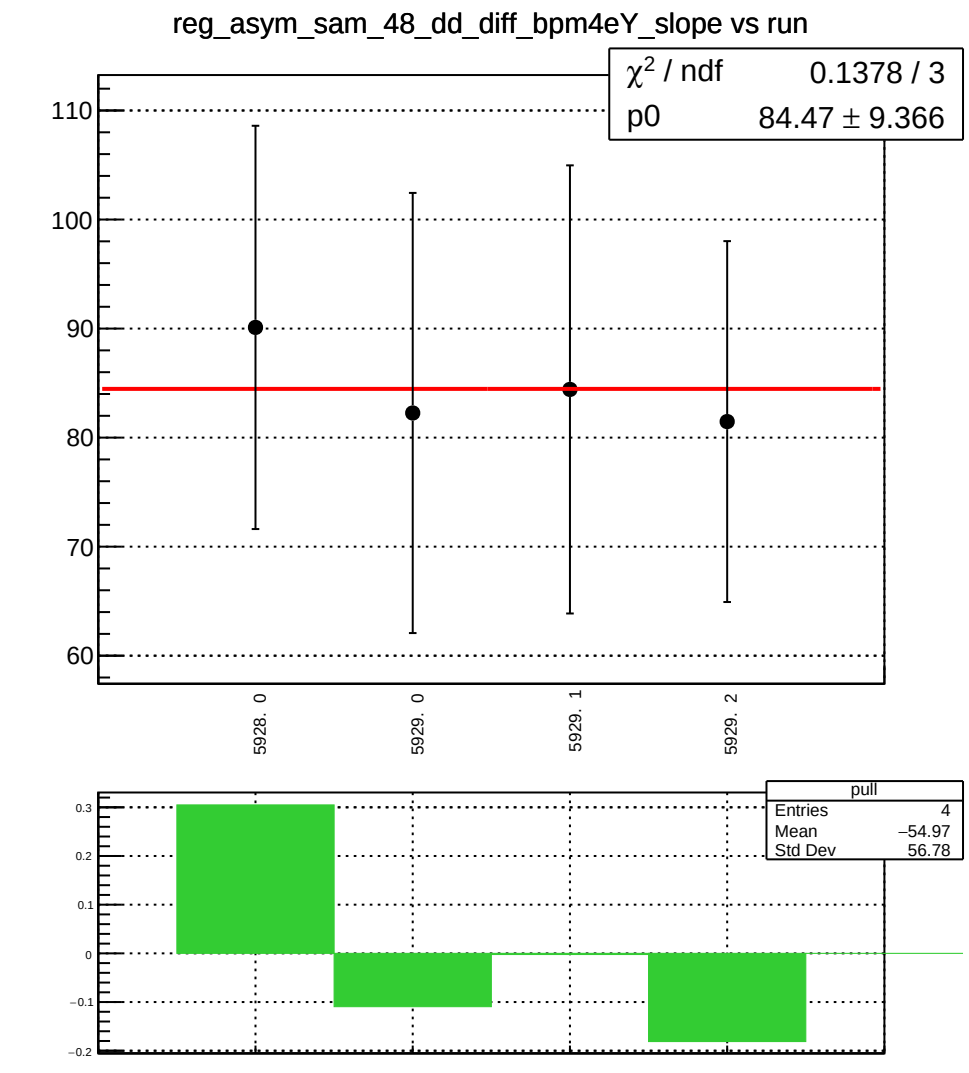

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.1221 / 3
p0 −2.648 ± 0.6433
−1
−1.5
−2
−2.5
−3
−3.5
−4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.486
Std Dev 9.496
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.01998
Std Dev 0.1736
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

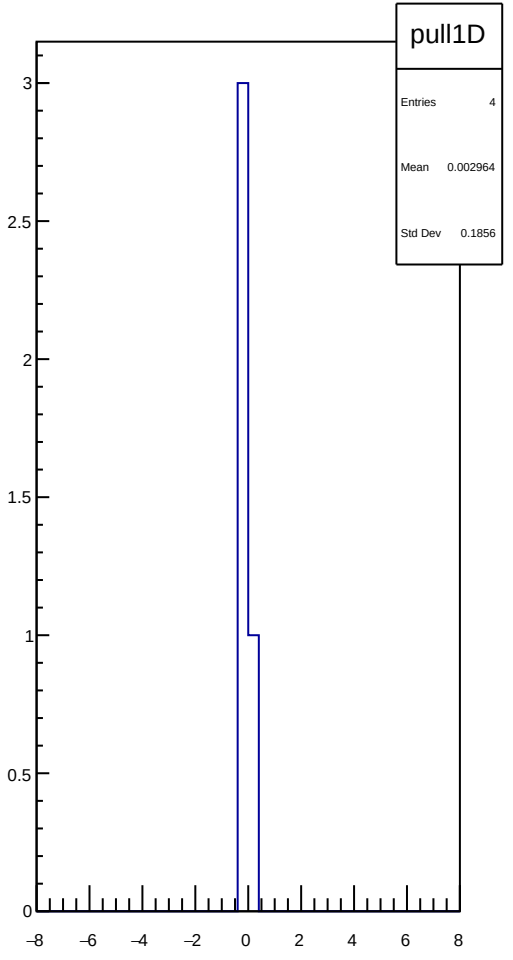

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.009961 / 3
p0 −45.41 ± 10.02
−20
−30
−40
−50
−60
−70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.355
Std Dev 7.452
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean 0.006929
Std Dev 0.04942
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

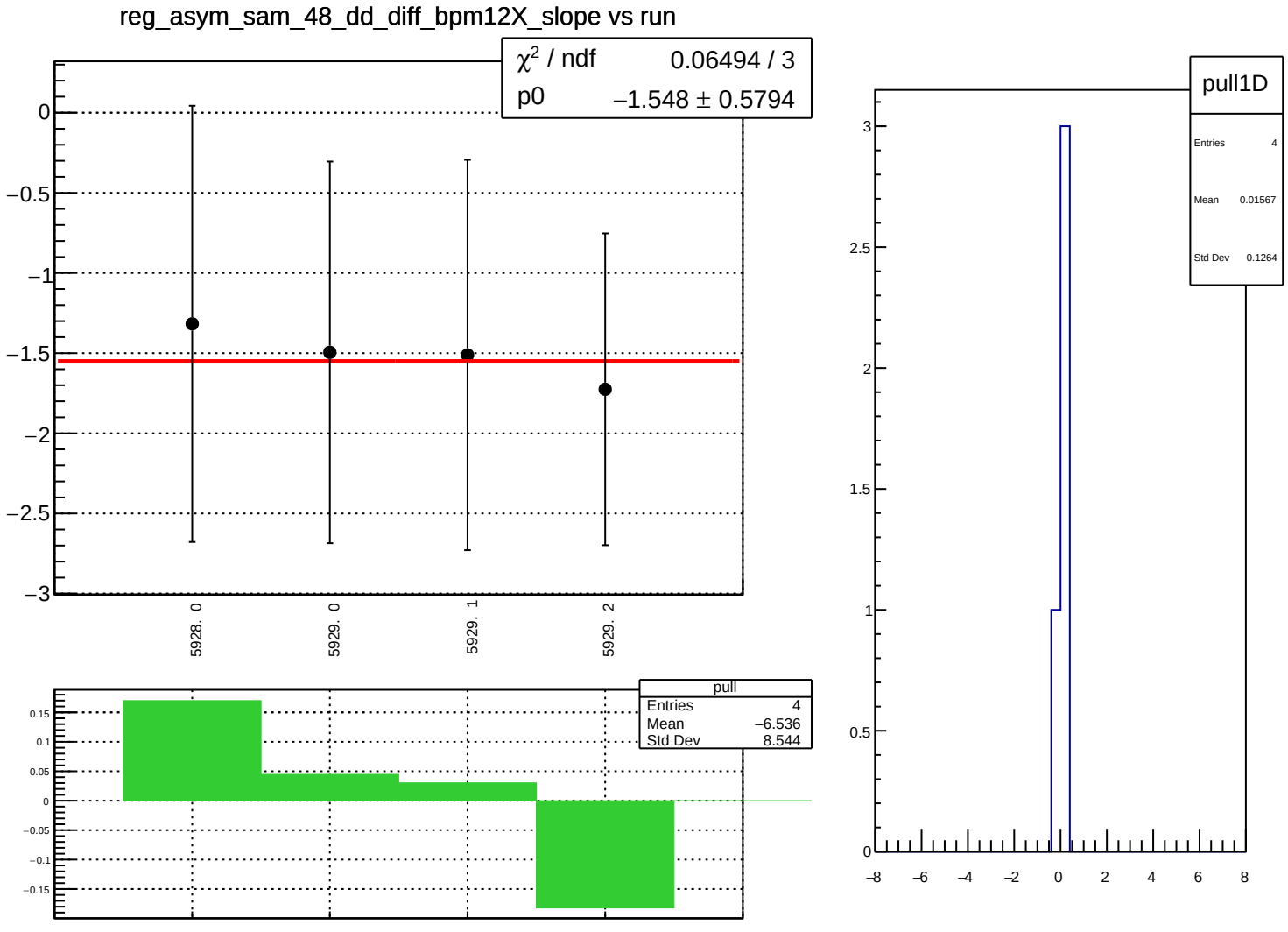

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1957 / 3
p0 42.78 ± 8.426
60
50
40
30
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −45.57
Std Dev 47.47
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.004601
Std Dev 0.2211
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

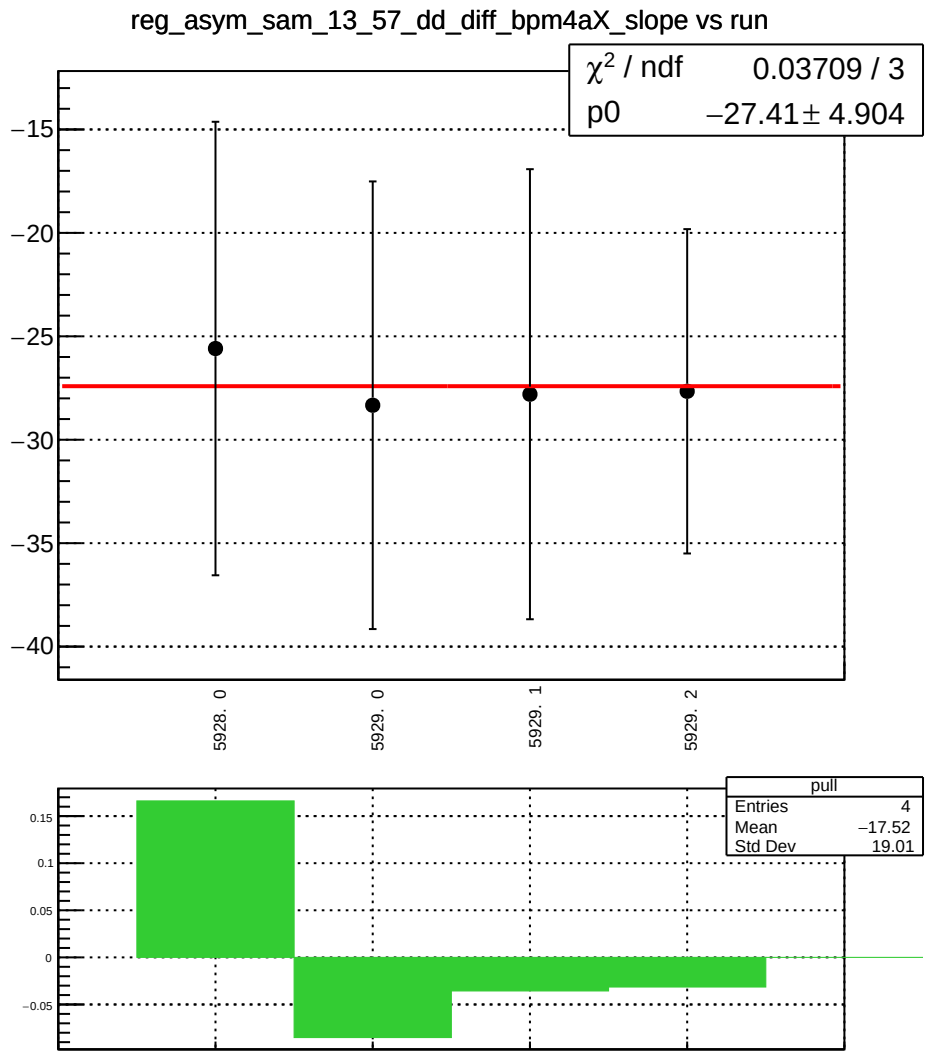

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.0008954 / 3
p0 −34.86 ± 12.66
0
−10
−20
−30
−40
−50
−60
−70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.904
Std Dev 6.892
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02

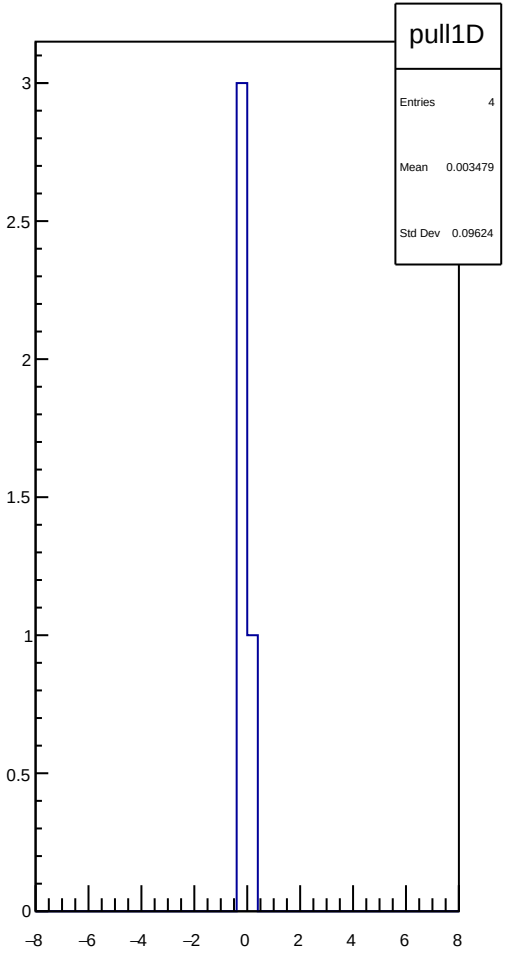

pull1D
Entries 4
Mean −0.002161
Std Dev 0.01481
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

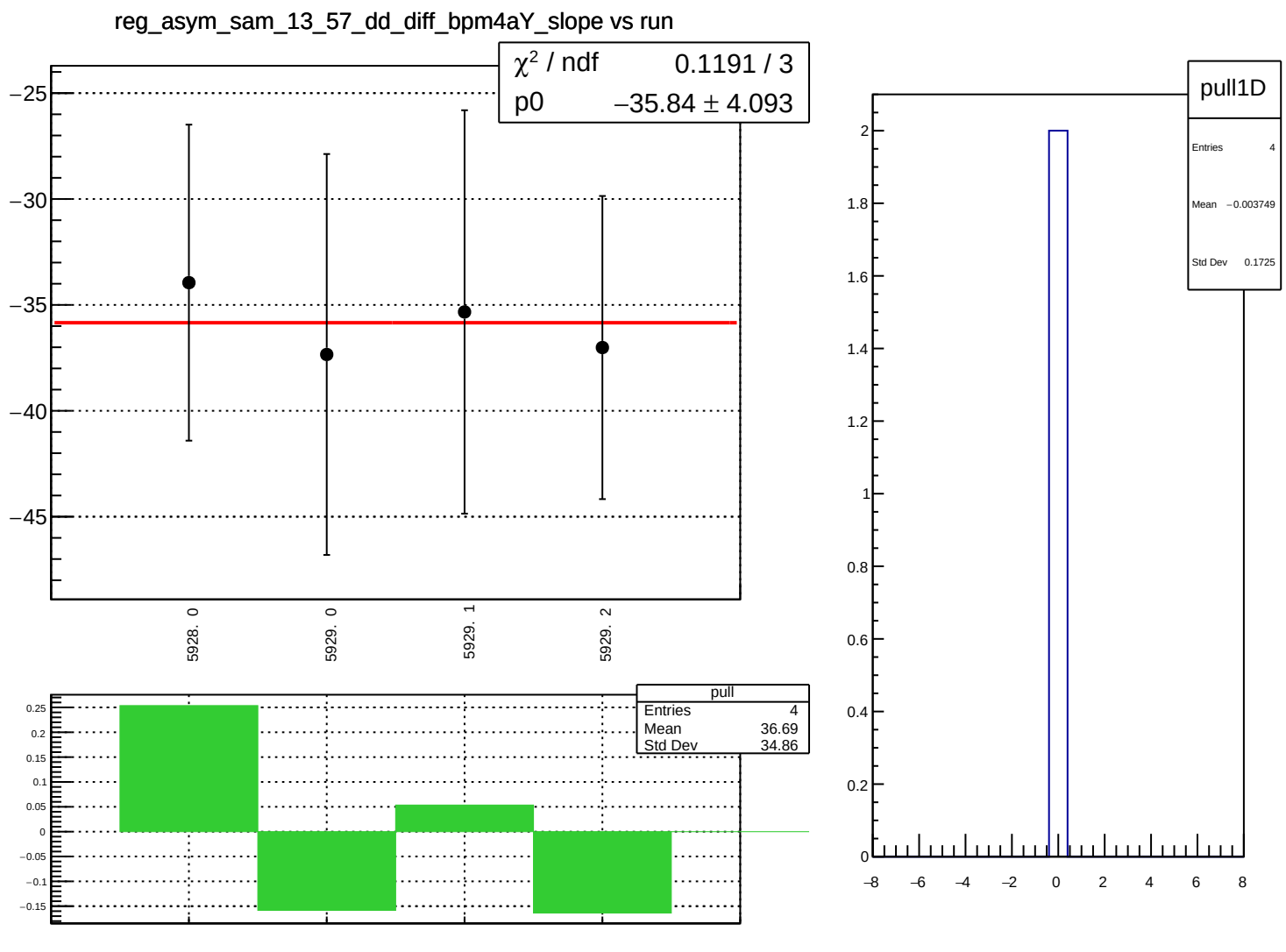

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1378 / 3
p0 84.47 ± 9.366
110
100
90
80
70
60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −54.97
Std Dev 56.78
0.3
0.2
0.1
0
−0.1
−0.2

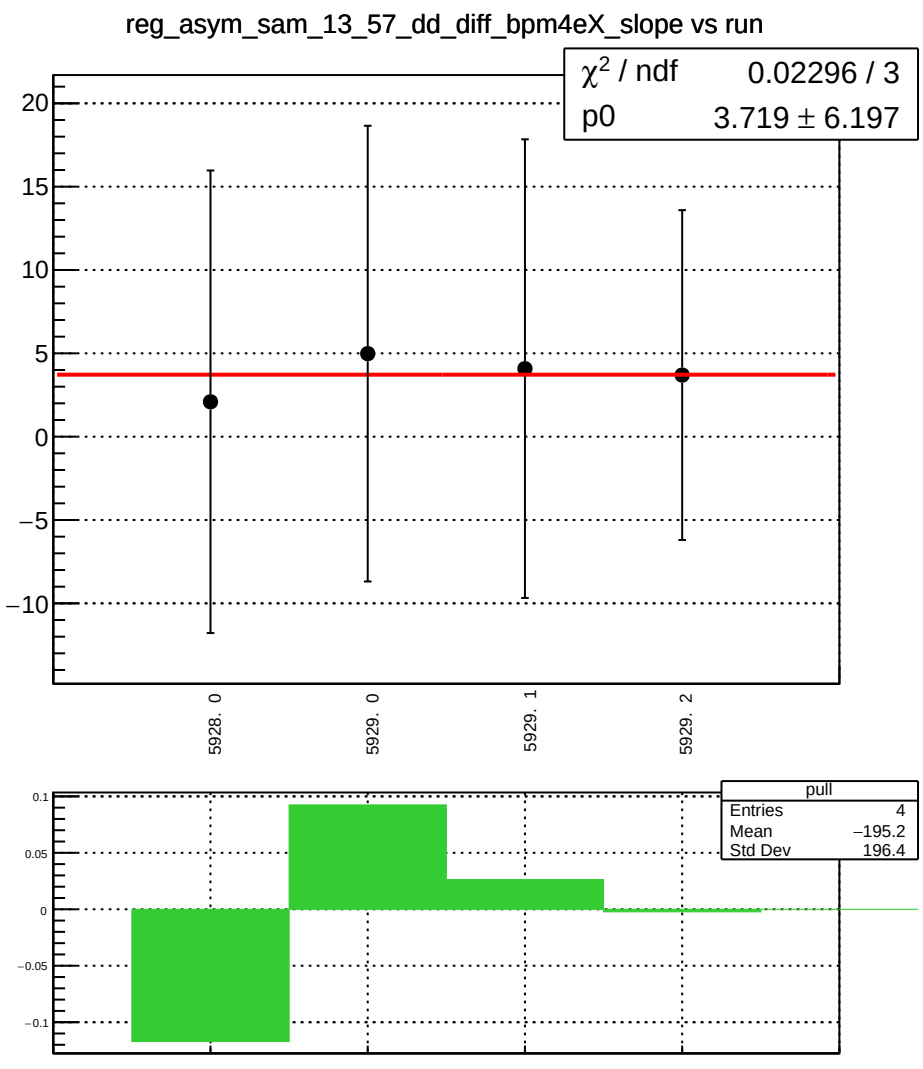

pull1D
Entries 4
Mean 0.002964
Std Dev 0.1856
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

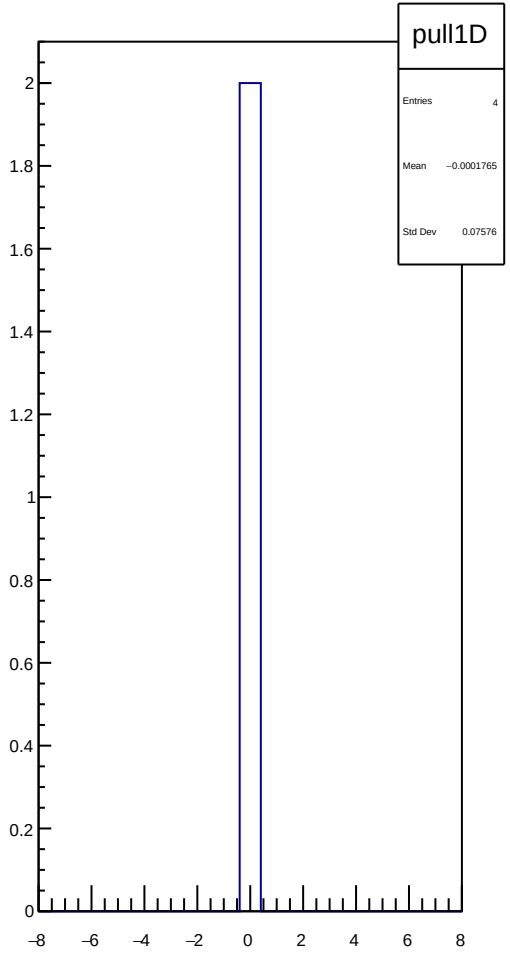

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.06494 / 3
p0 −1.548 ± 0.5794
0
−0.5
−1
−1.5
−2
−2.5
−3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.536
Std Dev 8.544
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.01567
Std Dev 0.1264
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

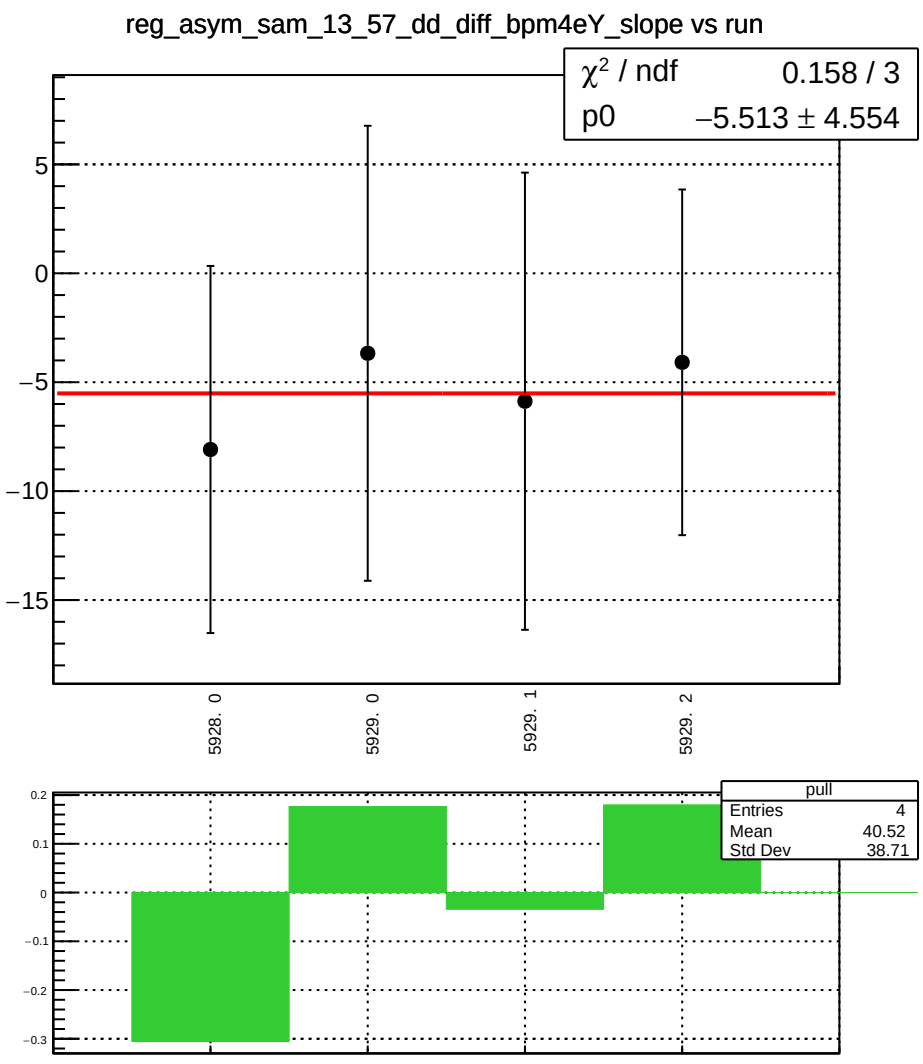

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.03709 / 3
p0 −27.41 ± 4.904
−15
−20
−25
−30
−35
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −17.52
Std Dev 19.01
0.15
0.1
0.05
0
−0.05

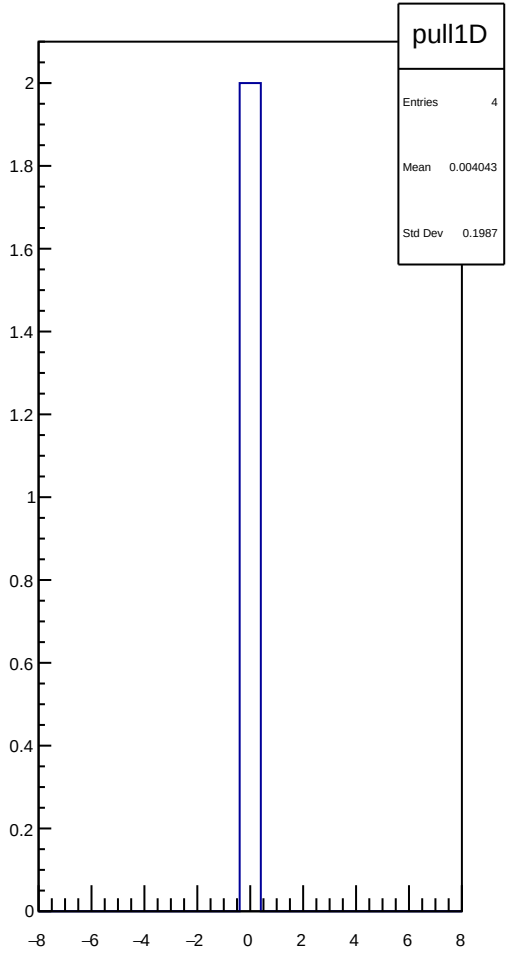

pull1D
Entries 4
Mean 0.003479
Std Dev 0.09624
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

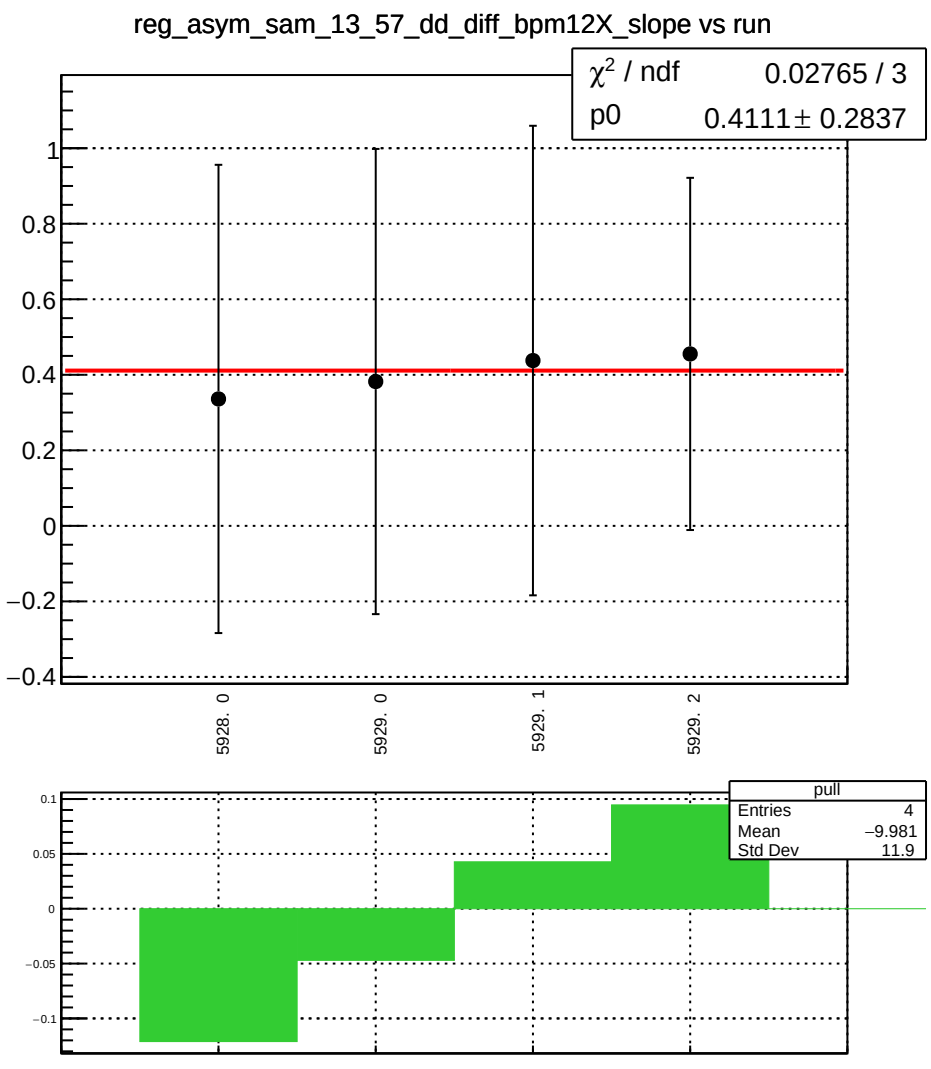

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1191 / 3
p0 −35.84 ± 4.093
−25
−30
−35
−40
−45
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 36.69
Std Dev 34.86
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean −0.003749
Std Dev 0.1725
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

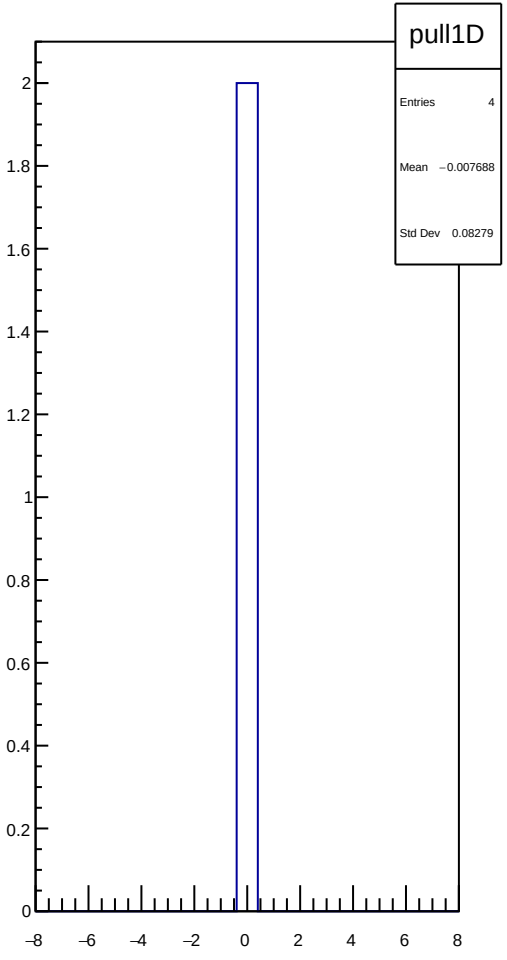

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.02296 / 3
p0 3.719 ± 6.197
20
15
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −195.2
Std Dev 196.4
0.1
0.05
0
−0.05
−0.1

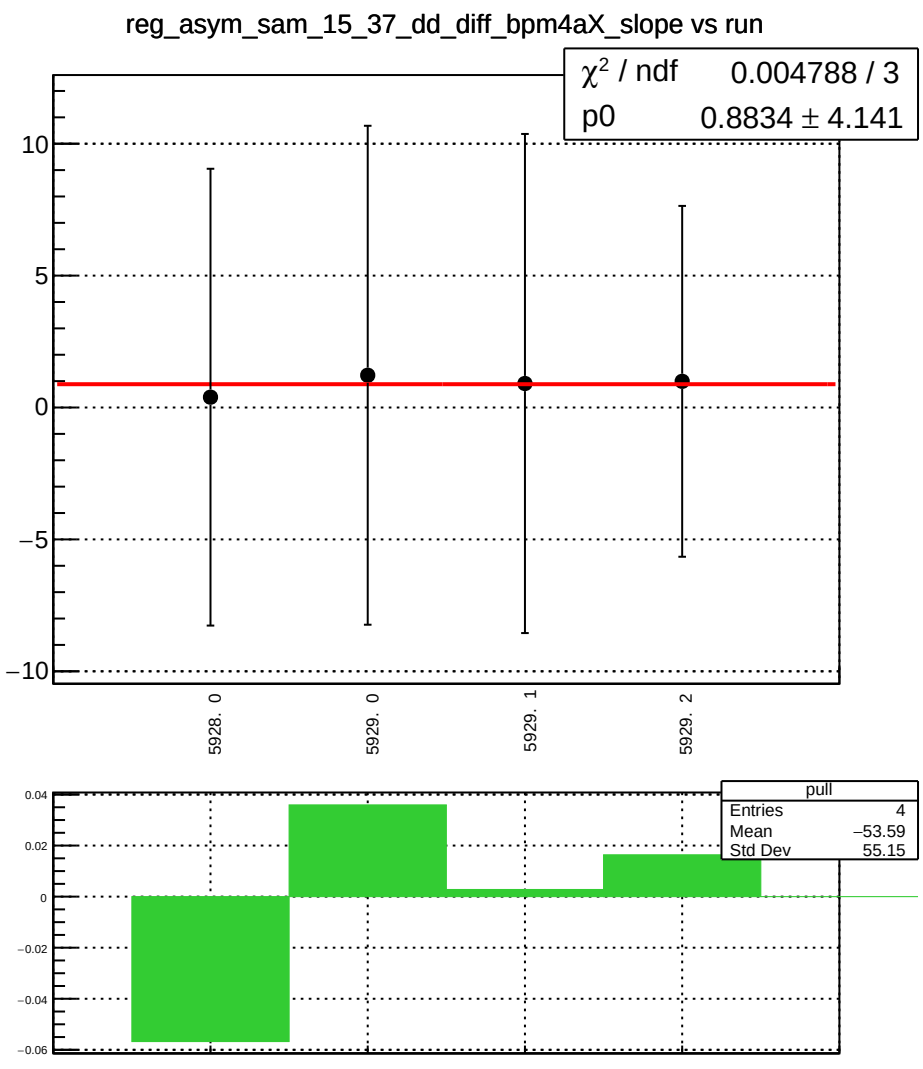

pull1D
Entries 4
Mean −0.0001765
Std Dev 0.07576
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

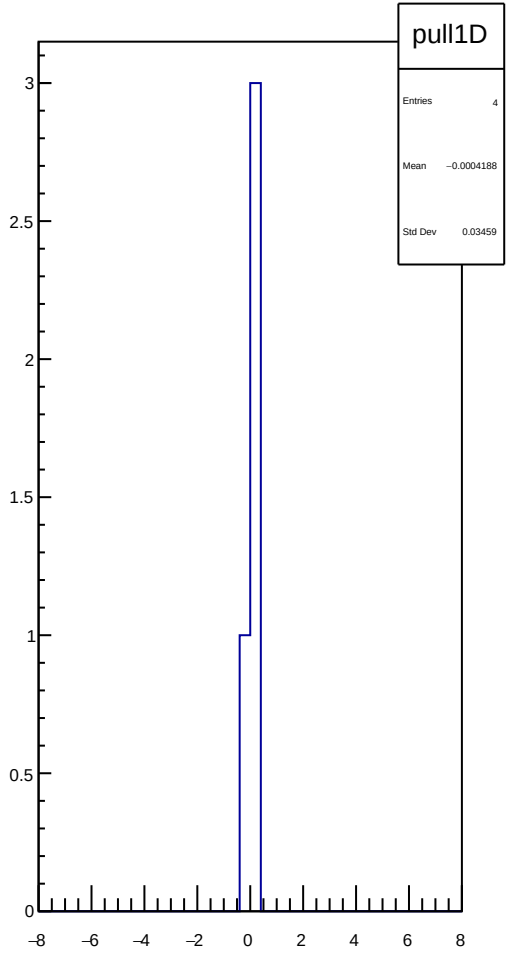

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.158 / 3
p0 −5.513 ± 4.554
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 40.52
Std Dev 38.71
0.2
0.1
0
−0.1
−0.2
−0.3

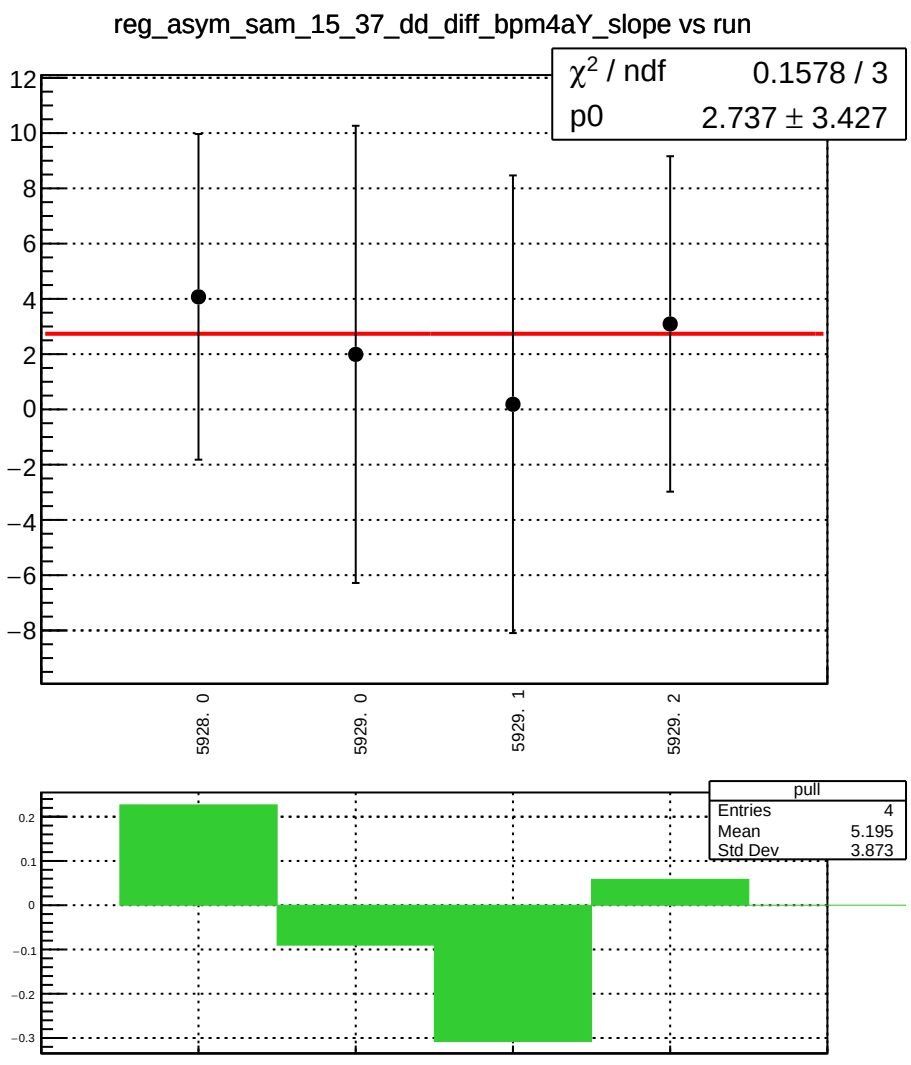

pull1D
Entries 4
Mean 0.004043
Std Dev 0.1987
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

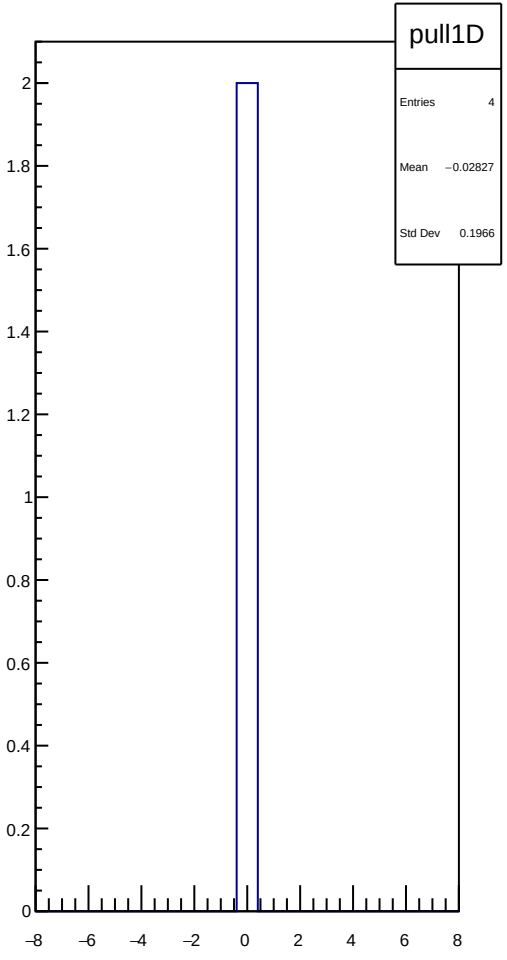

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 0.02765 / 3
p0 0.4111 ± 0.2837
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.981
Std Dev 11.9
0.1
0.05
0
−0.05
−0.1

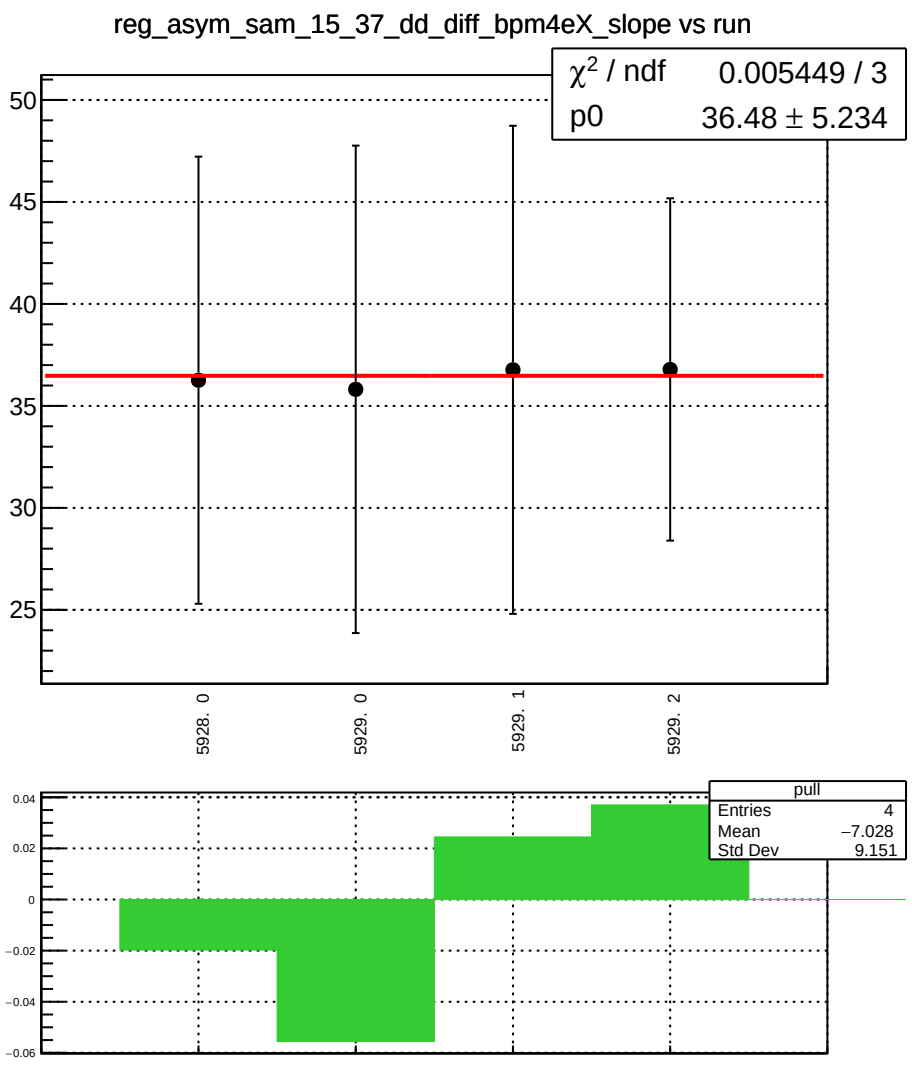

pull1D
Entries 4
Mean −0.007688
Std Dev 0.08279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

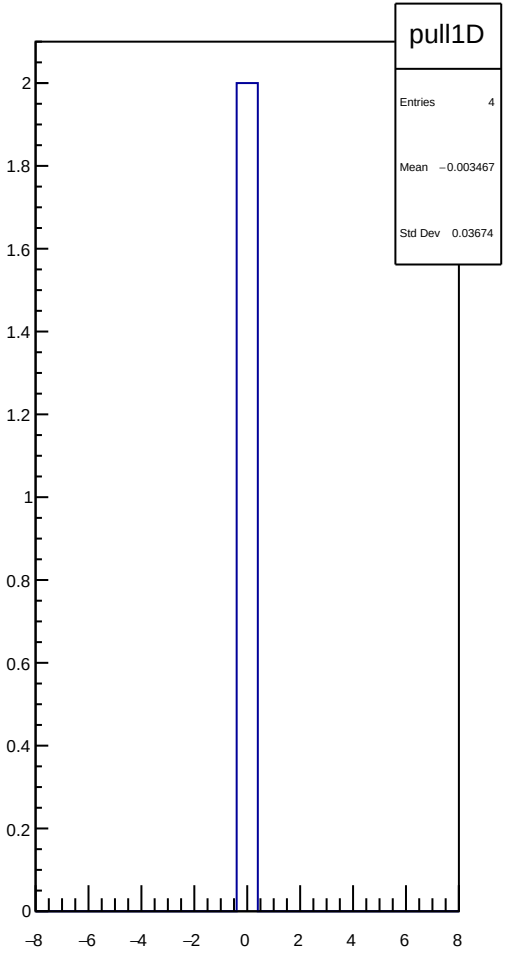

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.004788 / 3
p0 0.8834 ± 4.141
10
5
0
−5
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −53.59
Std Dev 55.15
0.04
0.02
0
−0.02
−0.04
−0.06

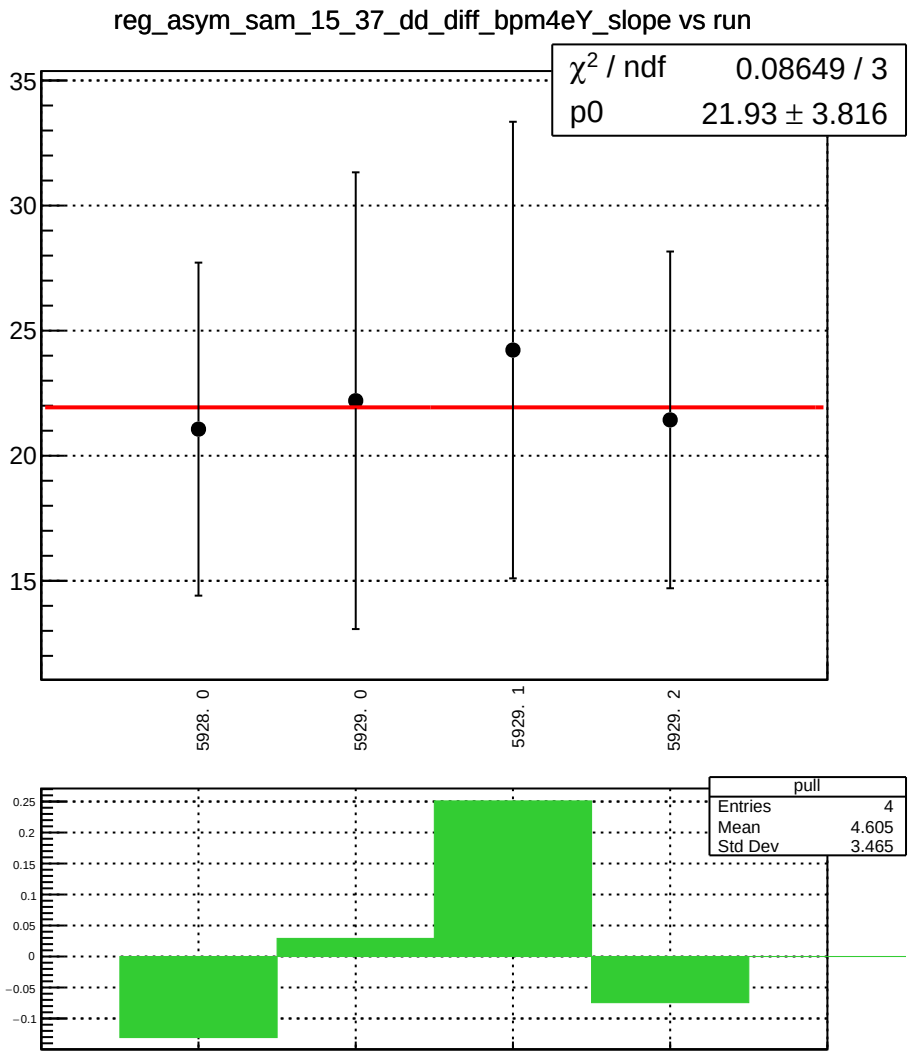

pull1D
Entries 4
Mean −0.0004188
Std Dev 0.03459
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

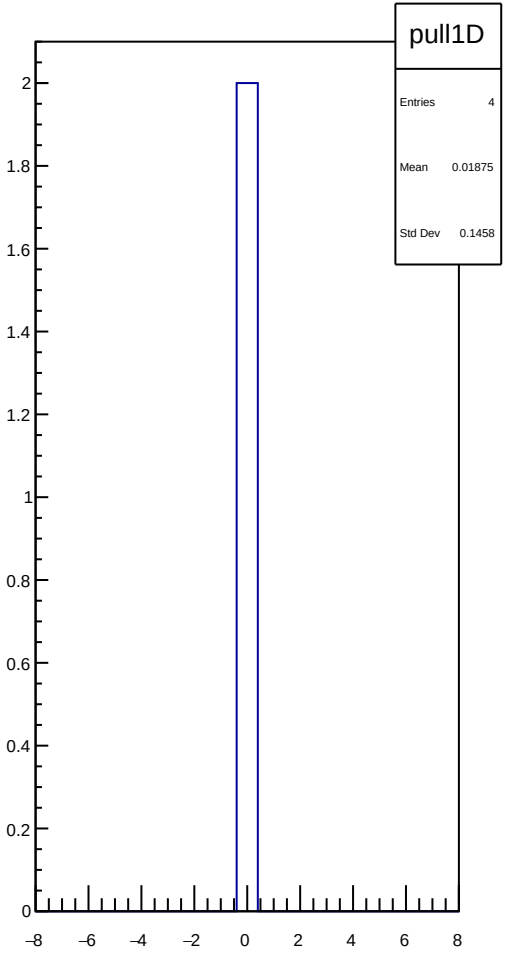

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.1578 / 3
p0 2.737 ± 3.427
12
10
8
6
4
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.195
Std Dev 3.873
0.2
0.1
0
−0.1
−0.2
−0.3

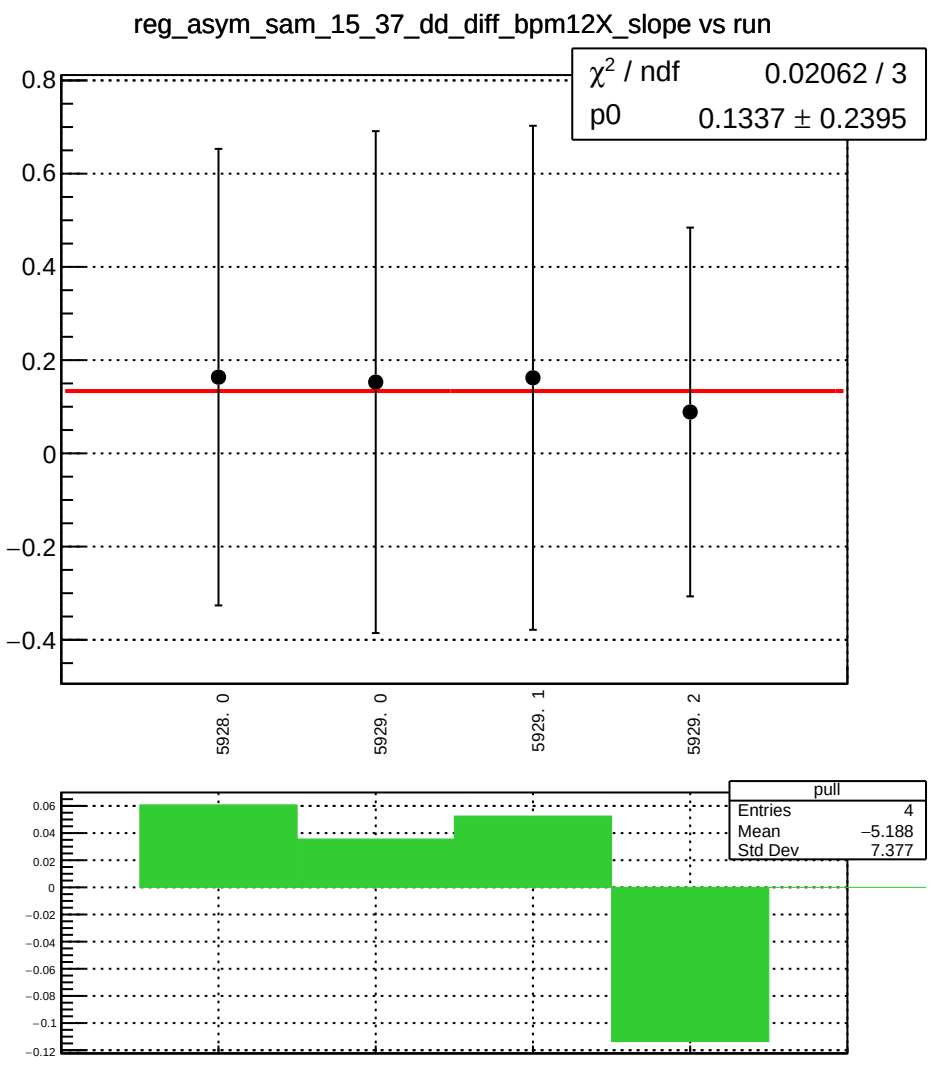

pull1D
Entries 4
Mean −0.02827
Std Dev 0.1966
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

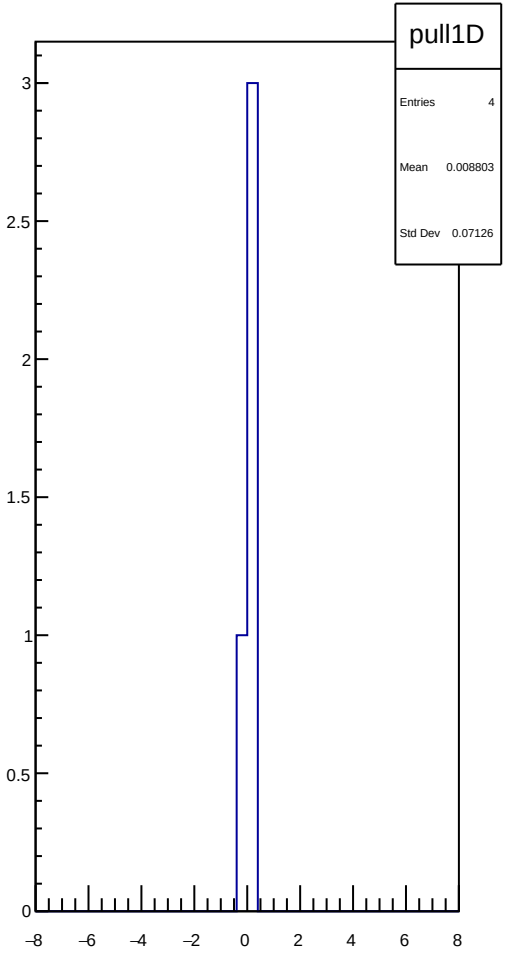

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.005449 / 3
p0 36.48 ± 5.234
50
45
40
35
30
25
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.028
Std Dev 9.151
0.04
0.02
0
−0.02
−0.04
−0.06

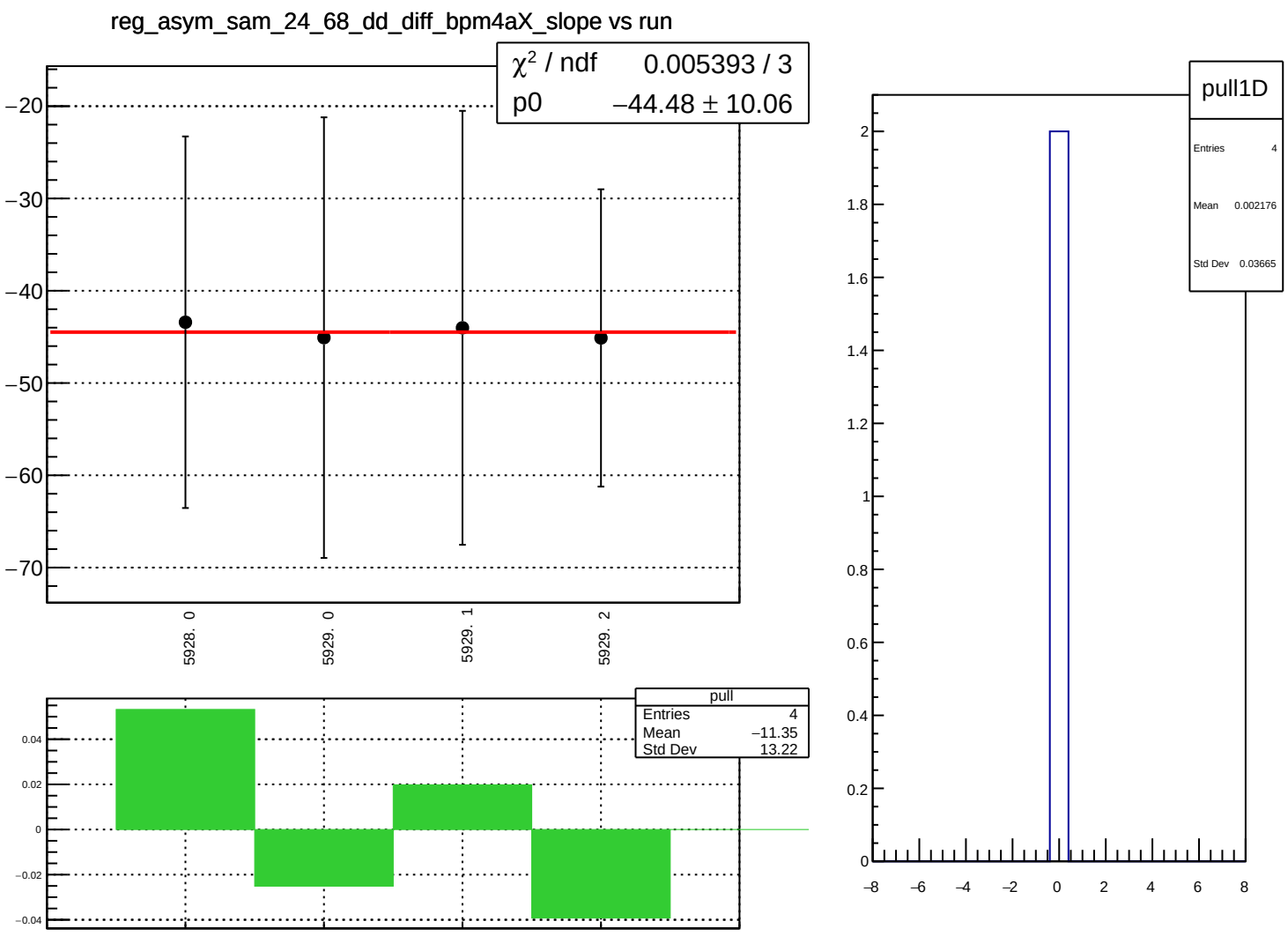

pull1D
Entries 4
Mean −0.003467
Std Dev 0.03674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

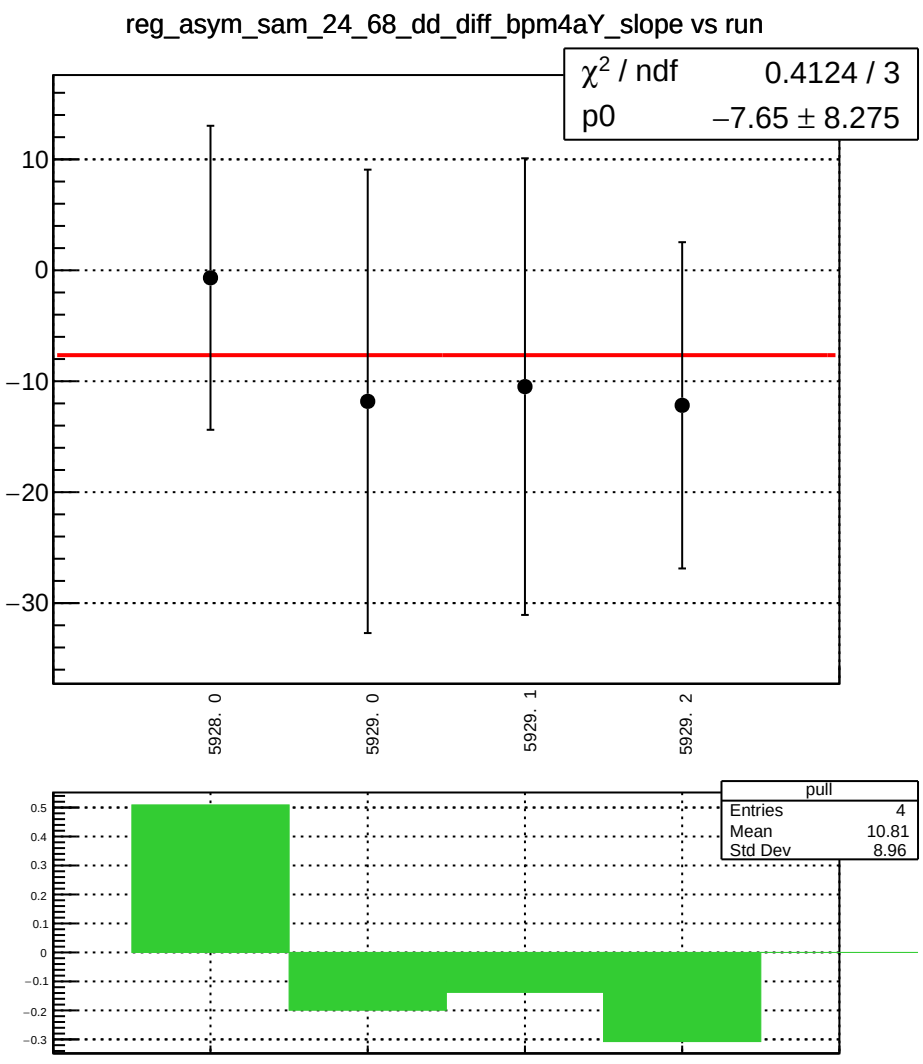

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.08649 / 3
p0 21.93 ± 3.816
35
30
25
20
15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.605
Std Dev 3.465
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1

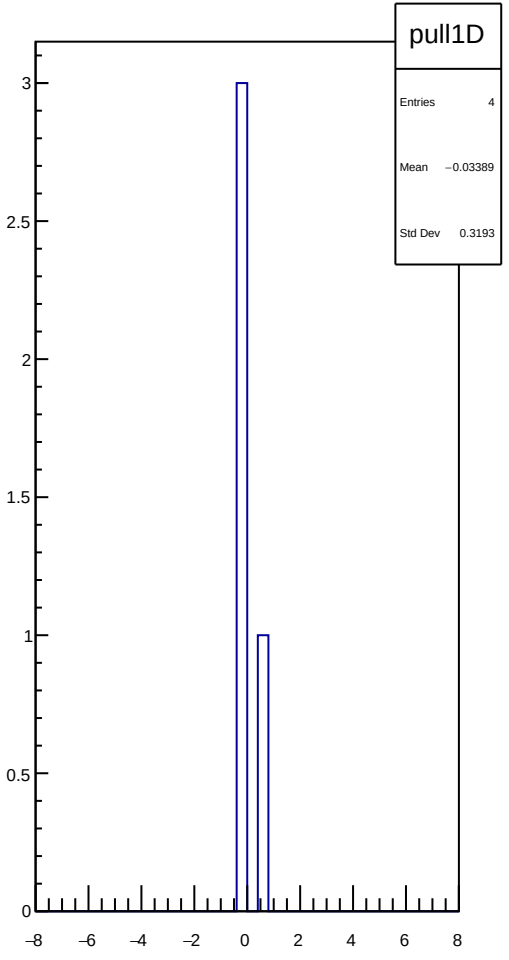

pull1D
Entries 4
Mean 0.01875
Std Dev 0.1458
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

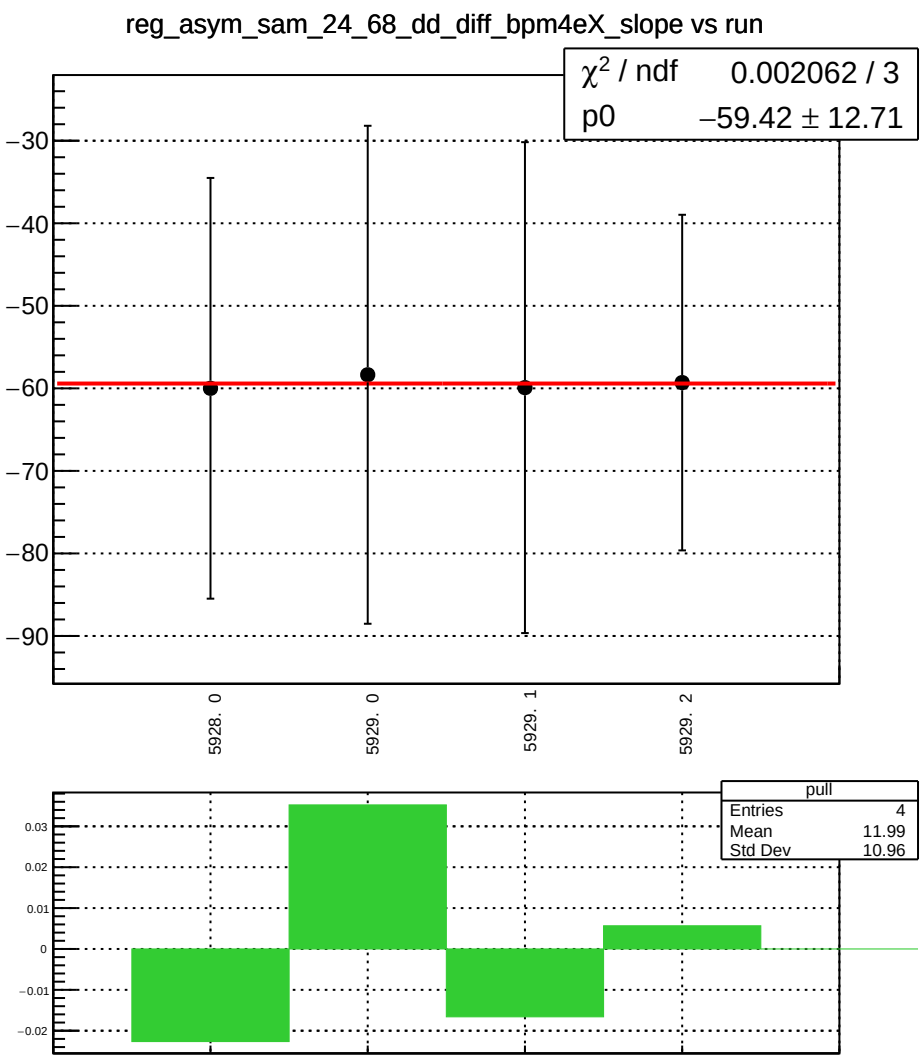

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.02062 / 3
p0 0.1337 ± 0.2395
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.188
Std Dev 7.377
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

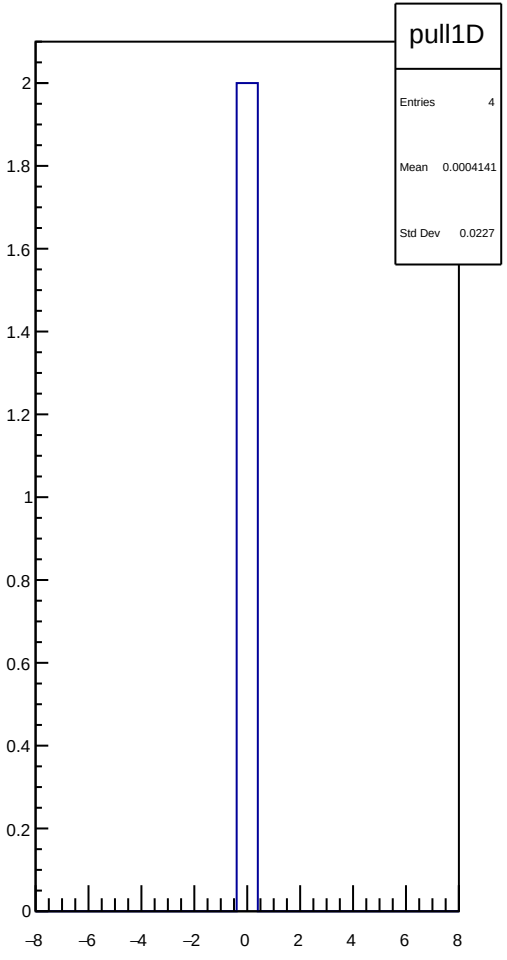

pull1D
Entries 4
Mean 0.008803
Std Dev 0.07126
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

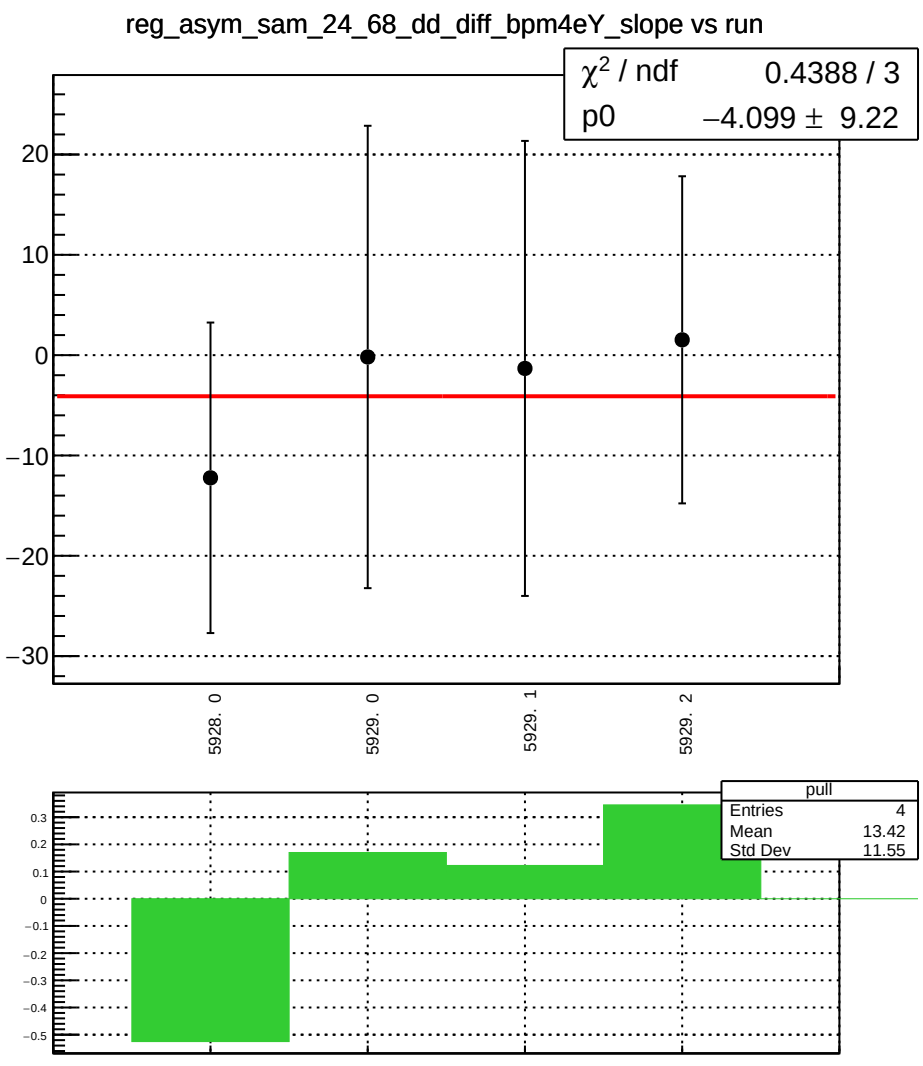

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.005393 / 3
p0 −44.48 ± 10.06
−20
−30
−40
−50
−60
−70
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −11.35
Std Dev 13.22
0.04
0.02
0
−0.02
−0.04
pull1D
Entries 4
Mean 0.002176
Std Dev 0.03665
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

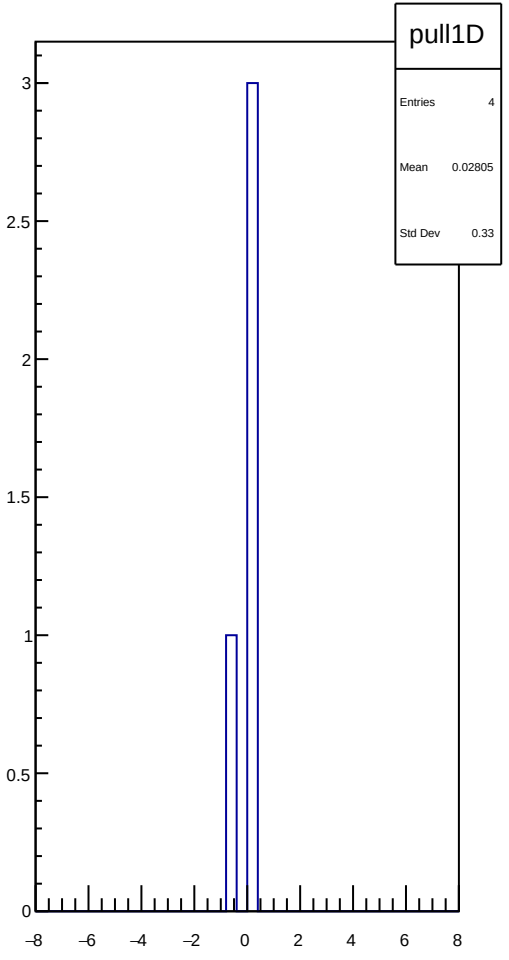

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4124 / 3
p0 −7.65 ± 8.275
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.81
Std Dev 8.96
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

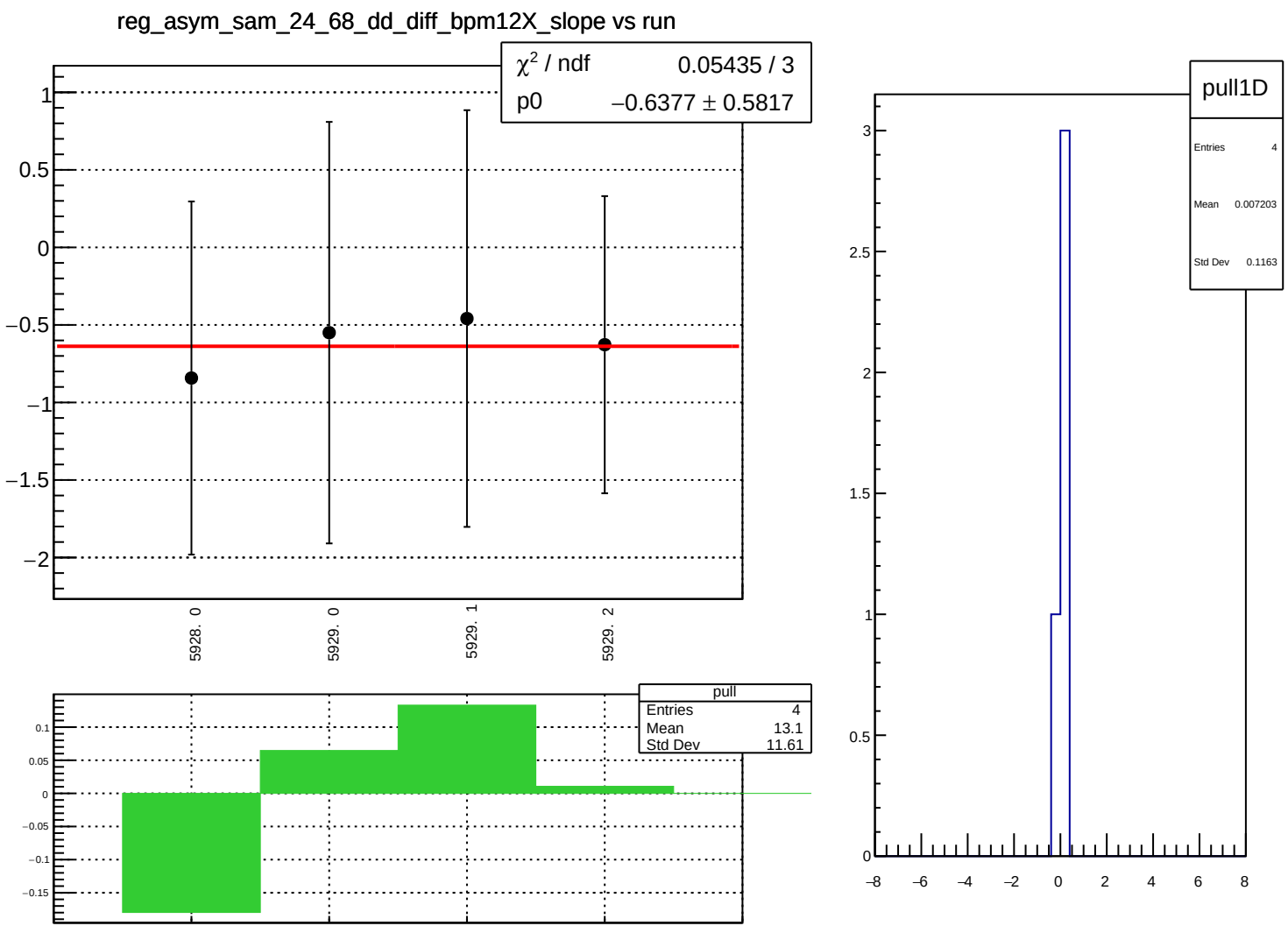

pull1D
Entries 4
Mean −0.03389
Std Dev 0.3193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

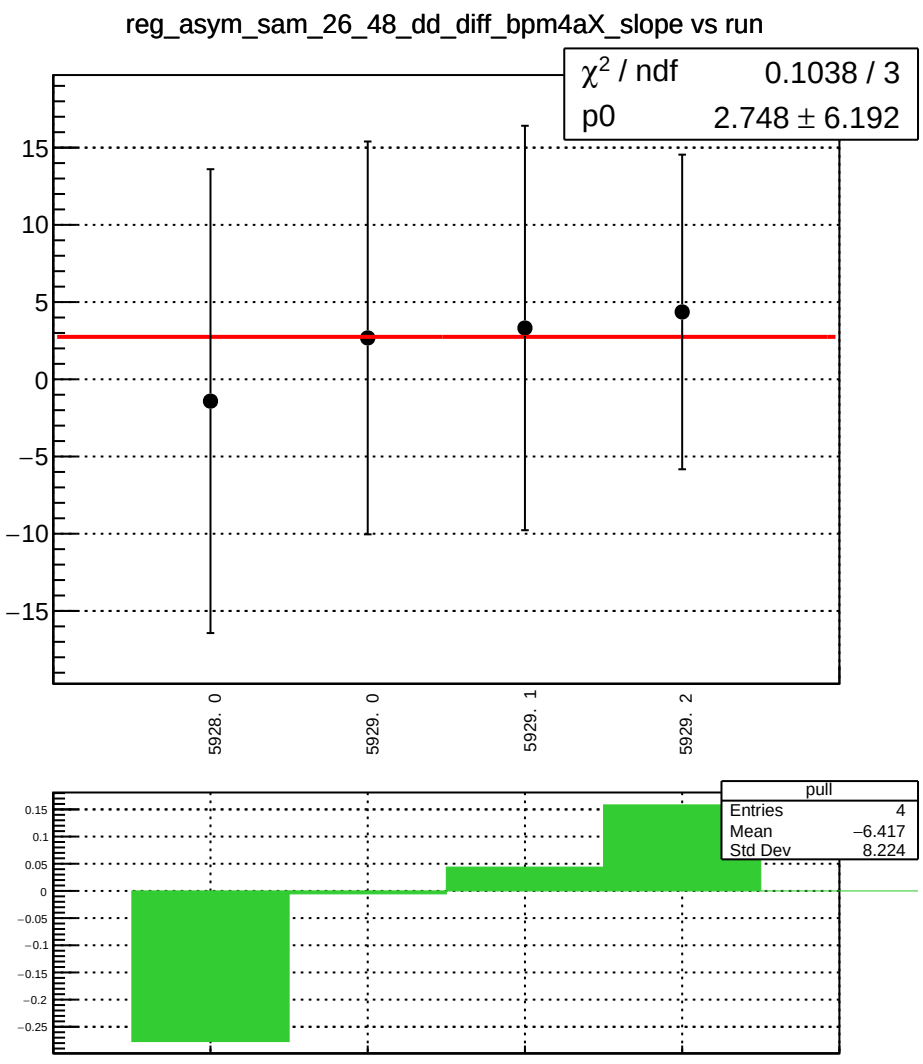

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.002062 / 3
p0 −59.42 ± 12.71
−30
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.99
Std Dev 10.96
0.03
0.02
0.01
0
−0.01
−0.02

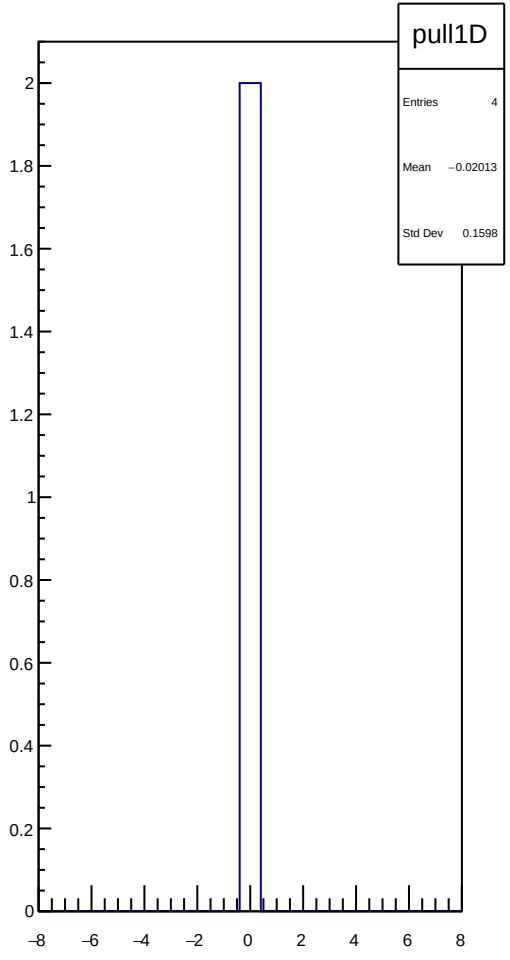

pull1D
Entries 4
Mean 0.0004141
Std Dev 0.0227
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

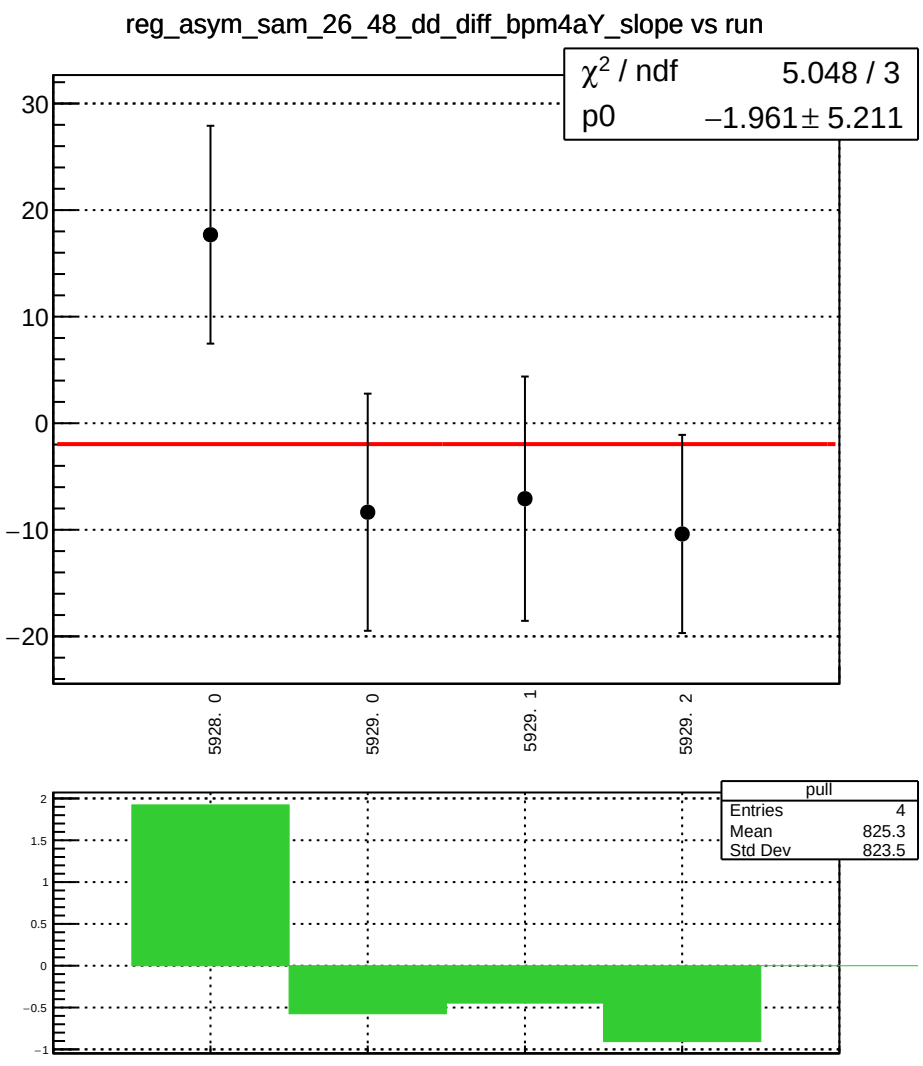

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4388 / 3
p0 −4.099 ± 9.22
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.42
Std Dev 11.55
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

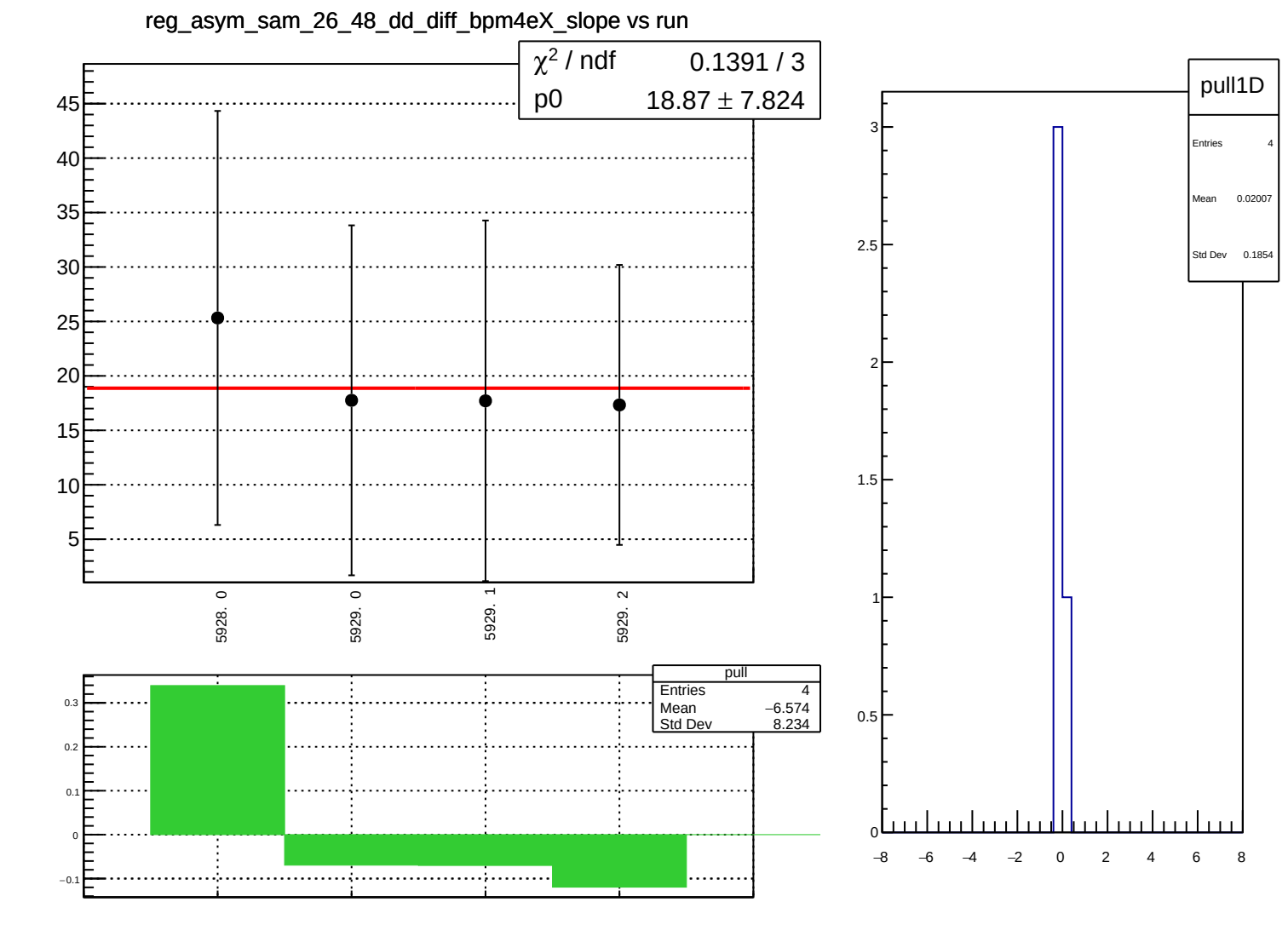

pull1D
Entries 4
Mean 0.02805
Std Dev 0.33
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

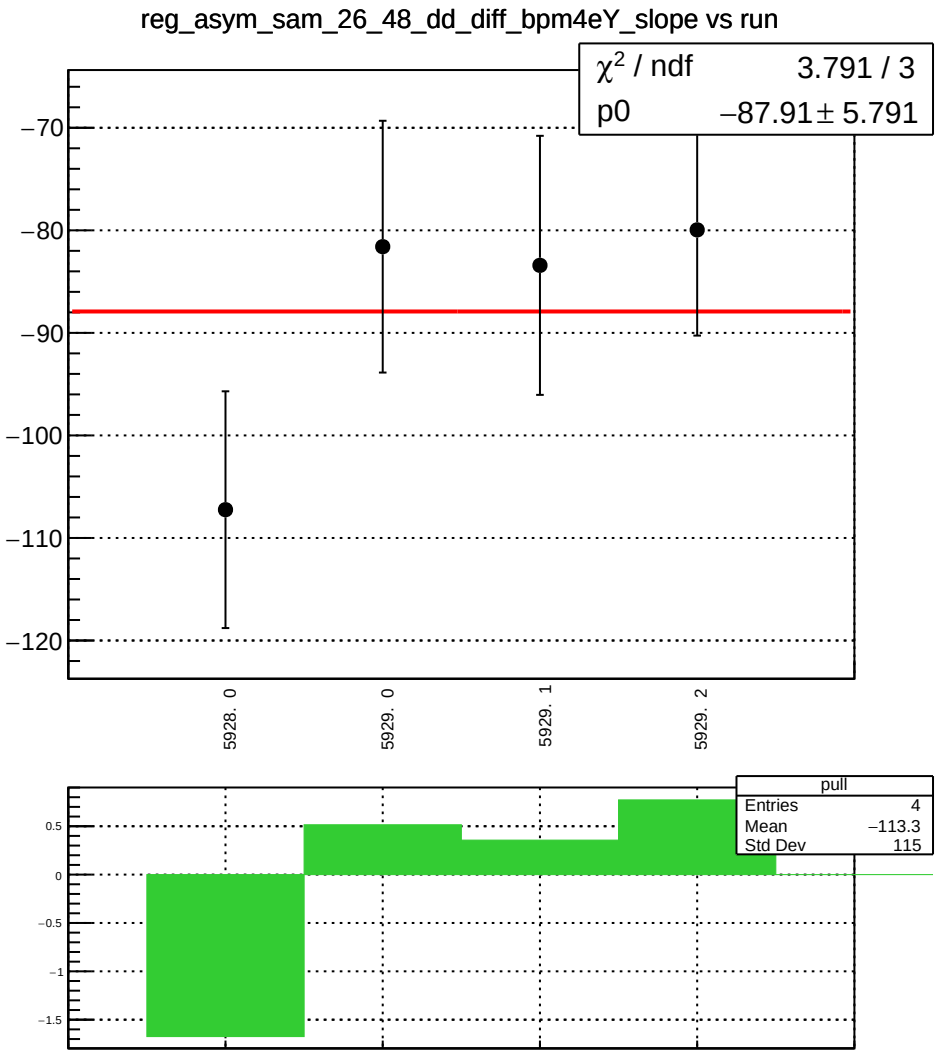

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.05435 / 3
p0 −0.6377 ± 0.5817
1
0.5
0
−0.5
−1
−1.5
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.1
Std Dev 11.61
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.007203
Std Dev 0.1163
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

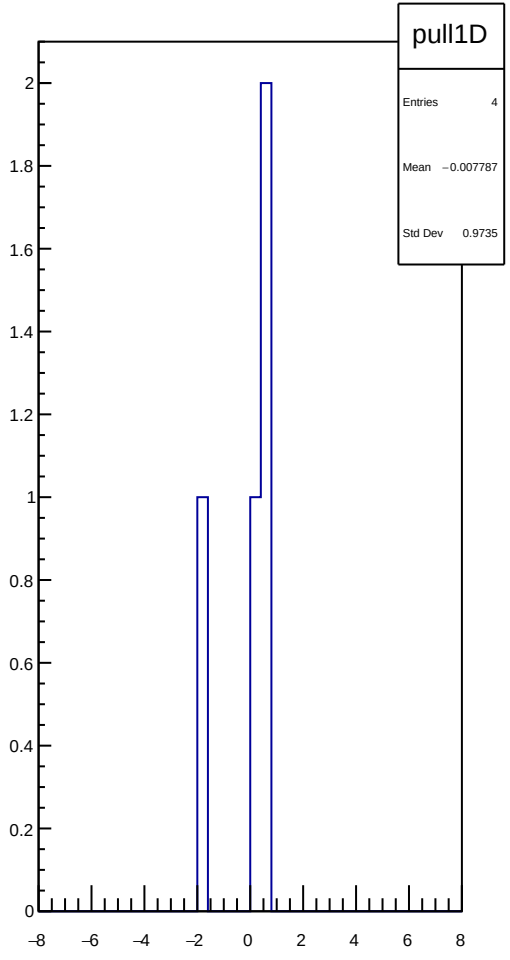

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.1038 / 3
p0 2.748 ± 6.192
15
10
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.417
Std Dev 8.224
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

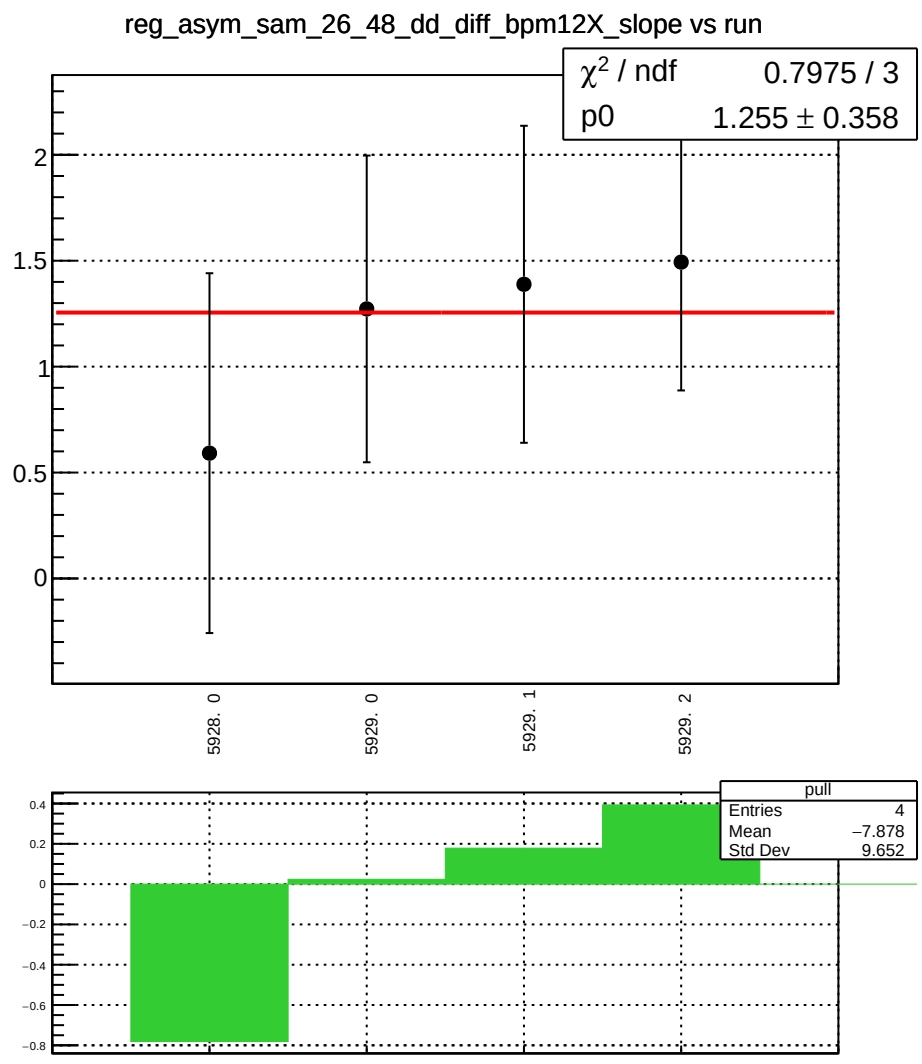

pull1D
Entries 4
Mean −0.02013
Std Dev 0.1598
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

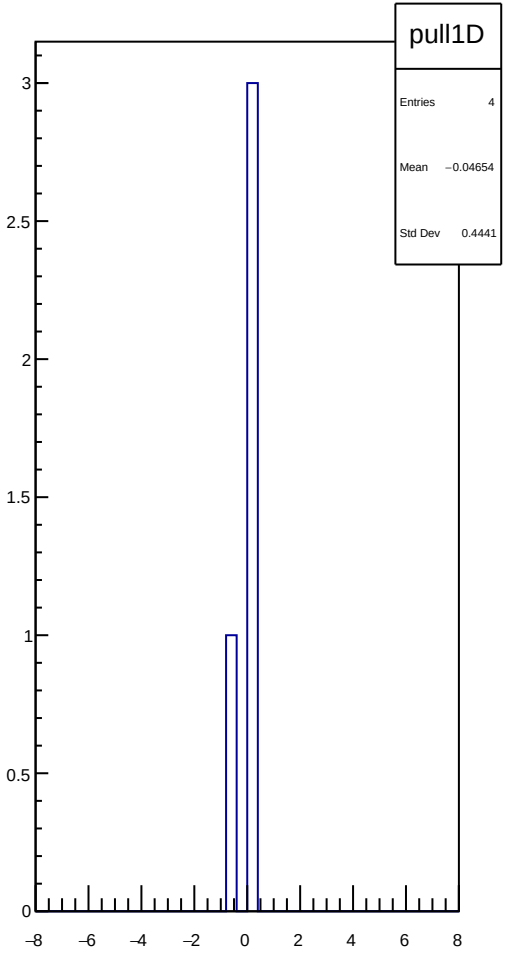

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.048 / 3
p0 −1.961 ± 5.211
30
20
10
0
−10
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 825.3
Std Dev 823.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.001269
Std Dev 1.123
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

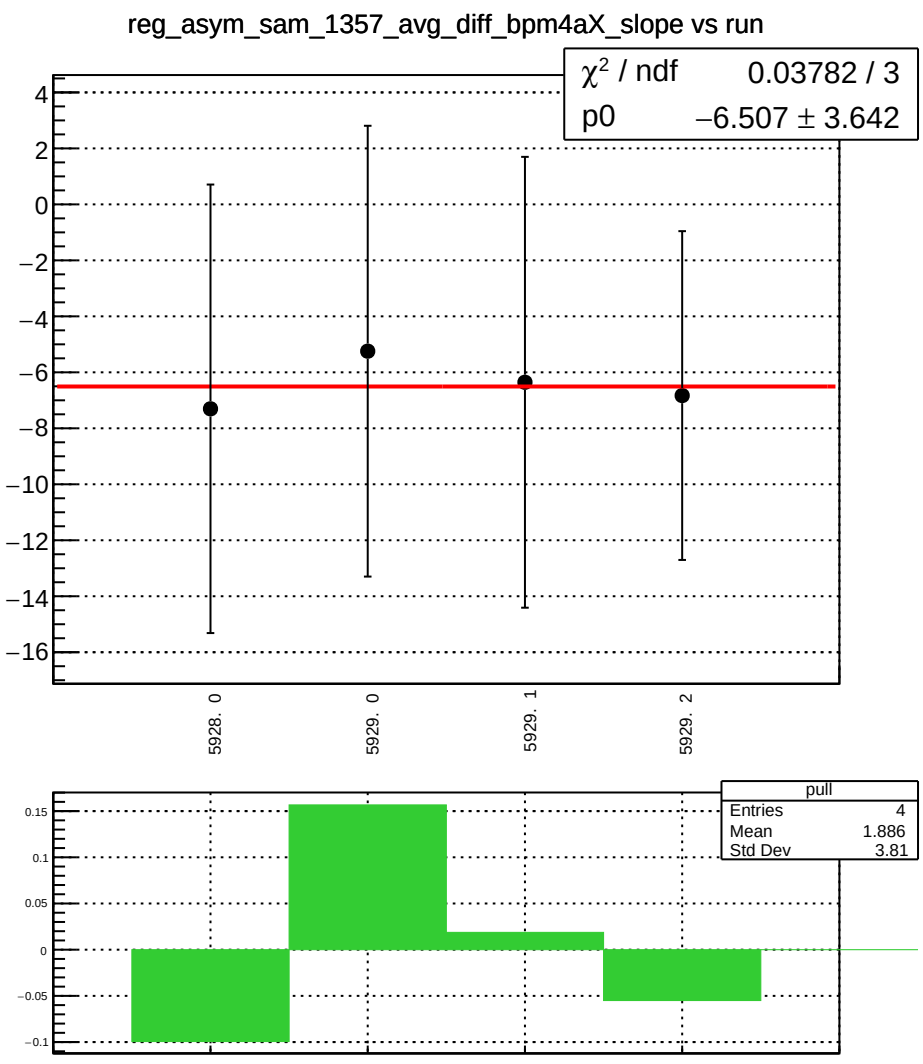

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1391 / 3
p0 18.87 ± 7.824
45
40
35
30
25
20
15
10
5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.574
Std Dev 8.234
0.3
0.2
0.1
0
−0.1
pull1D
Entries 4
Mean 0.02007
Std Dev 0.1854
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

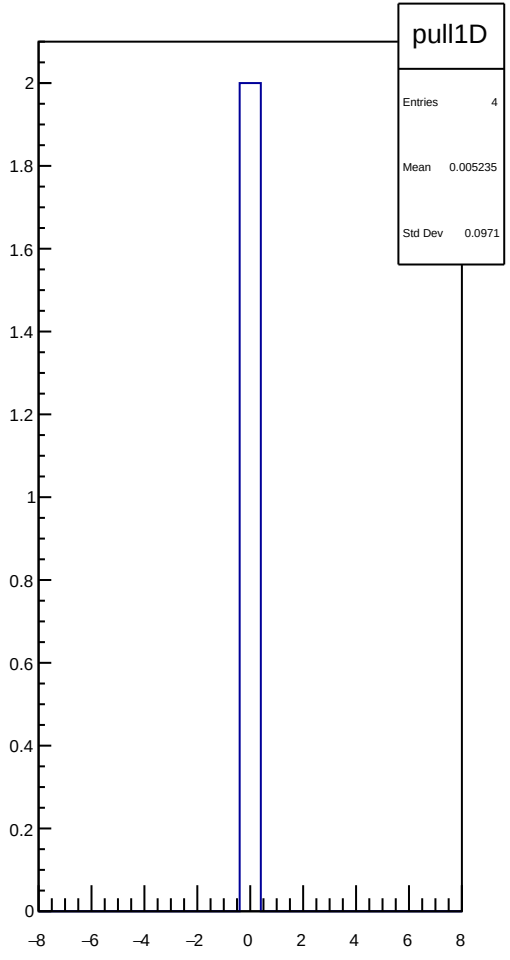

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.791 / 3
p0 −87.91 ± 5.791
−70
−80
−90
−100
−110
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −113.3
Std Dev 115
0.5
0
−0.5
−1
−1.5

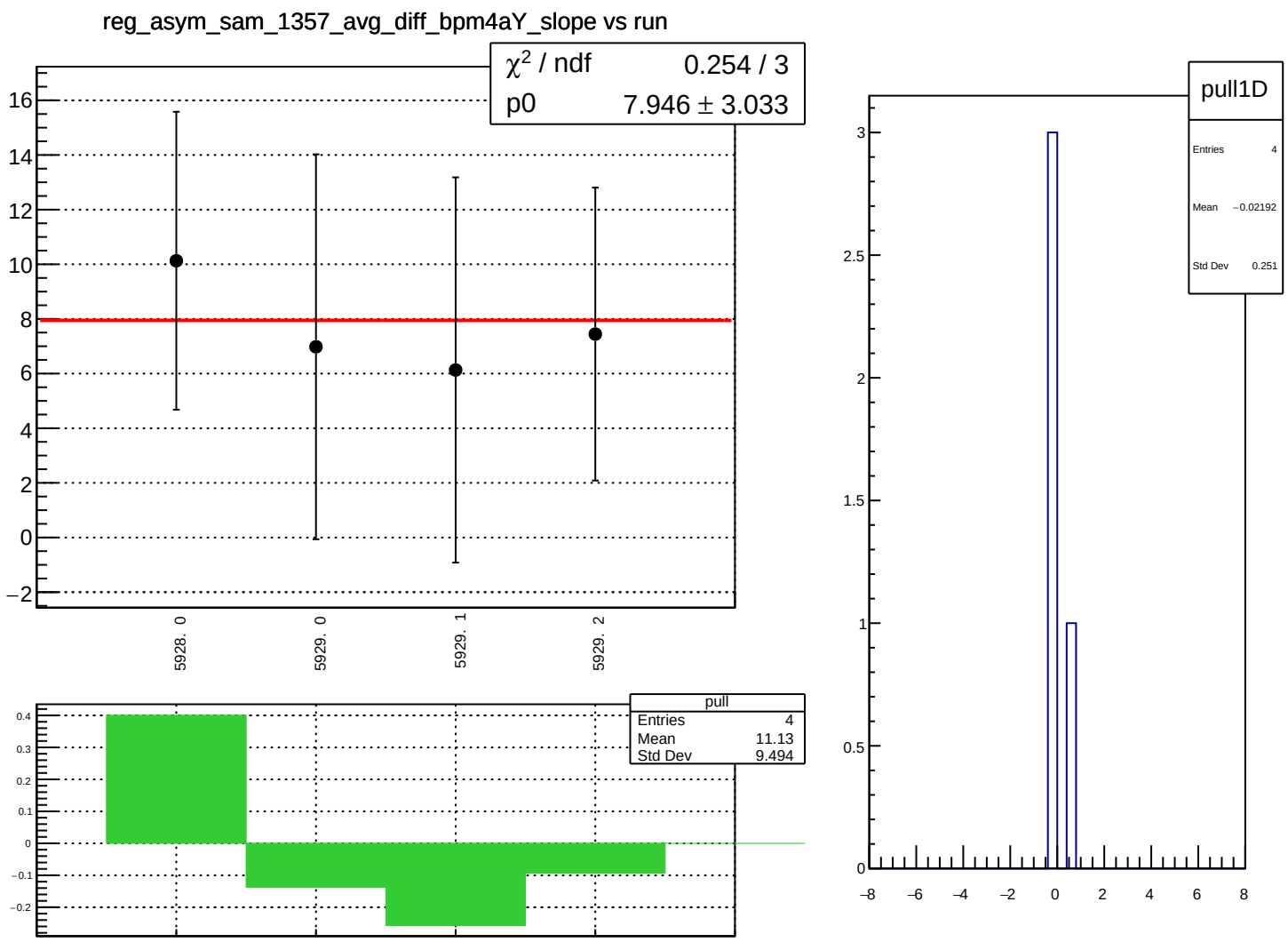

pull1D
Entries 4
Mean −0.007787
Std Dev 0.9735
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

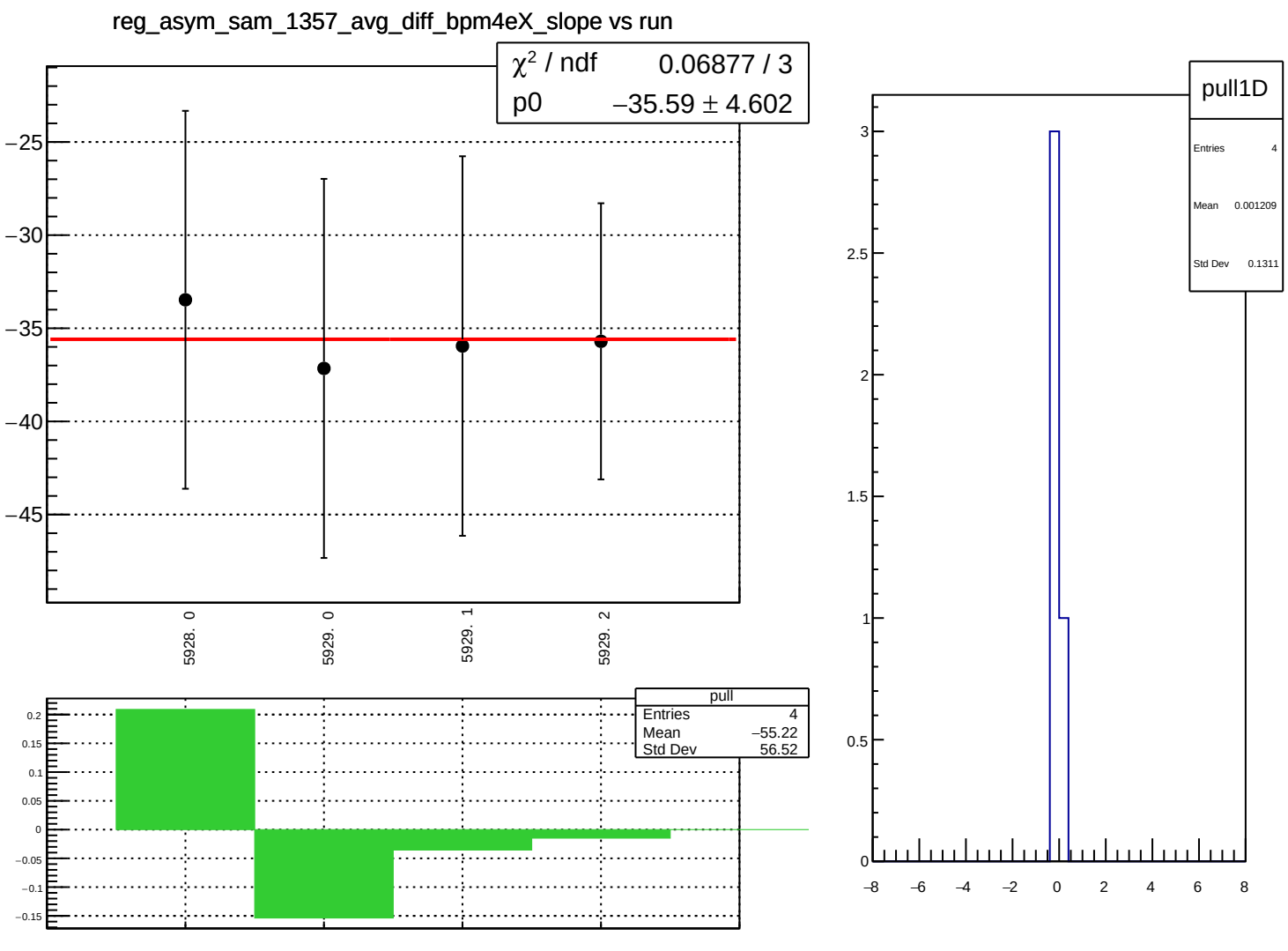

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7975 / 3
p0 1.255 ± 0.358
2
1.5
1
0.5
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.878
Std Dev 9.652
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

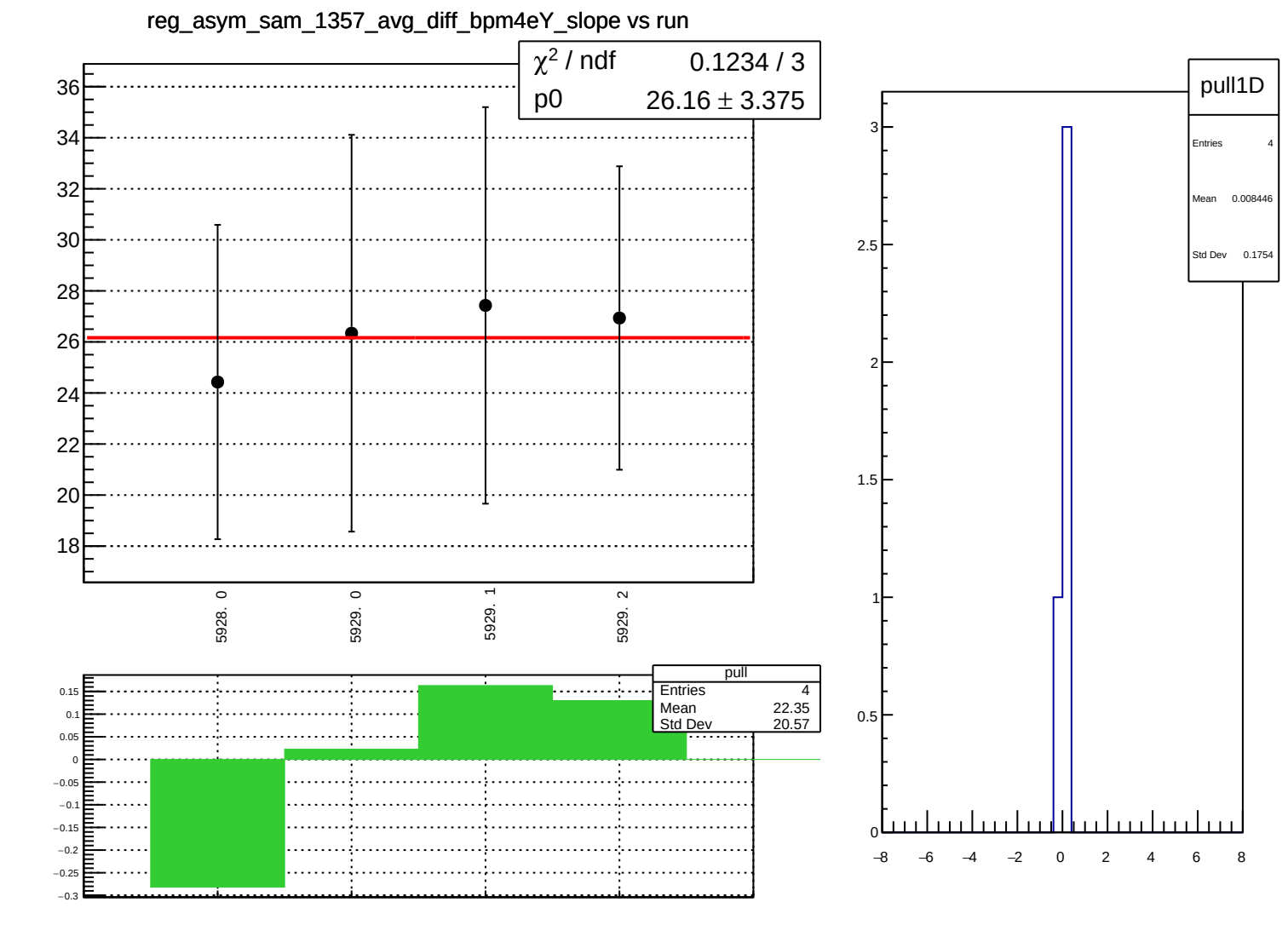

pull1D
Entries 4
Mean −0.04654
Std Dev 0.4441
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

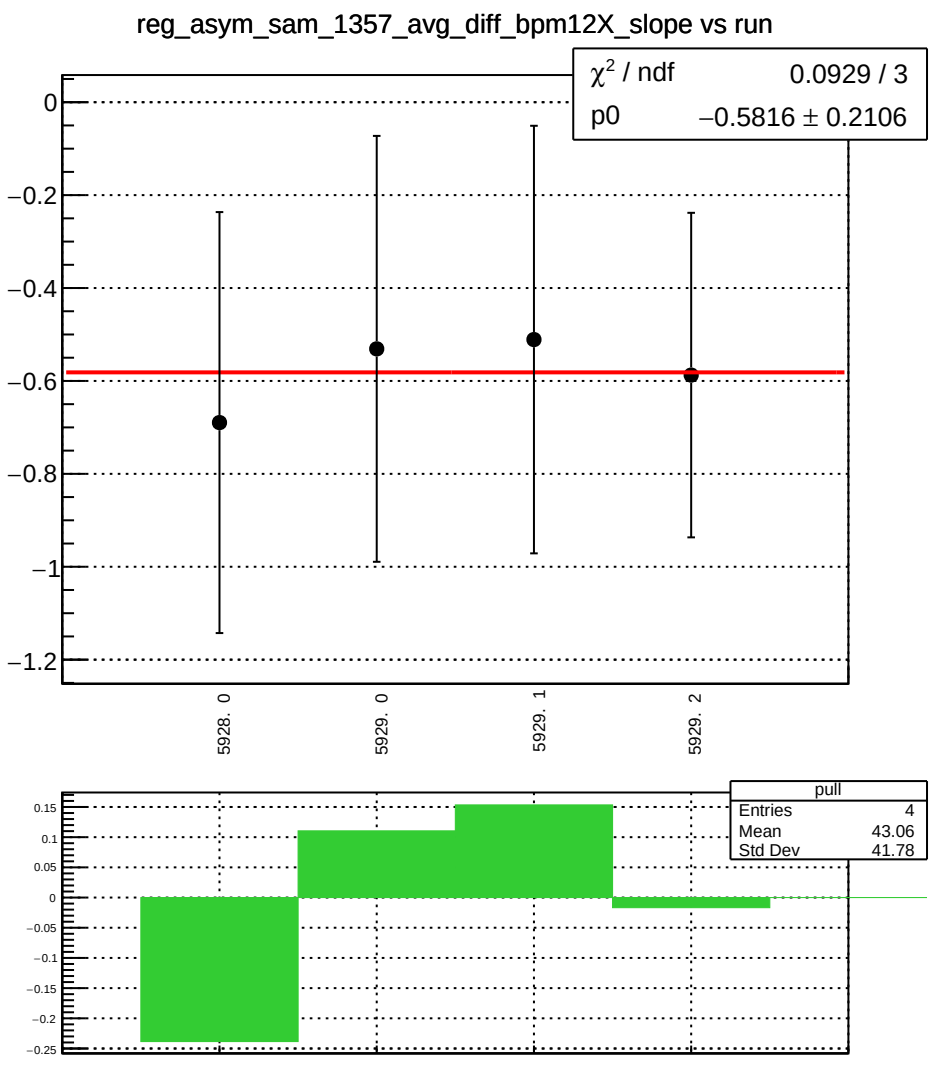

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.03782 / 3
p0 −6.507 ± 3.642
4
2
0
−2
−4
−6
−8
−10
−12
−14
−16
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.886
Std Dev 3.81
0.15
0.1
0.05
0
−0.05
−0.1

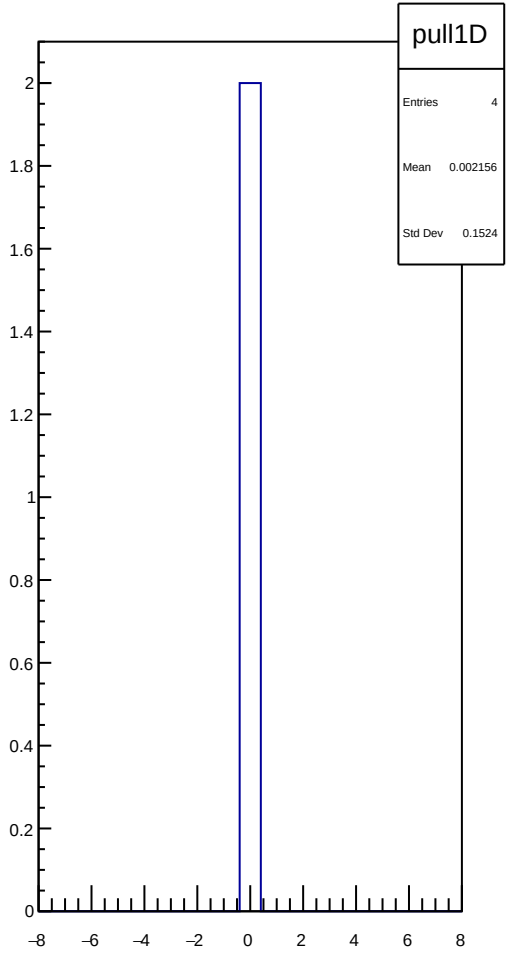

pull1D
Entries 4
Mean 0.005235
Std Dev 0.0971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

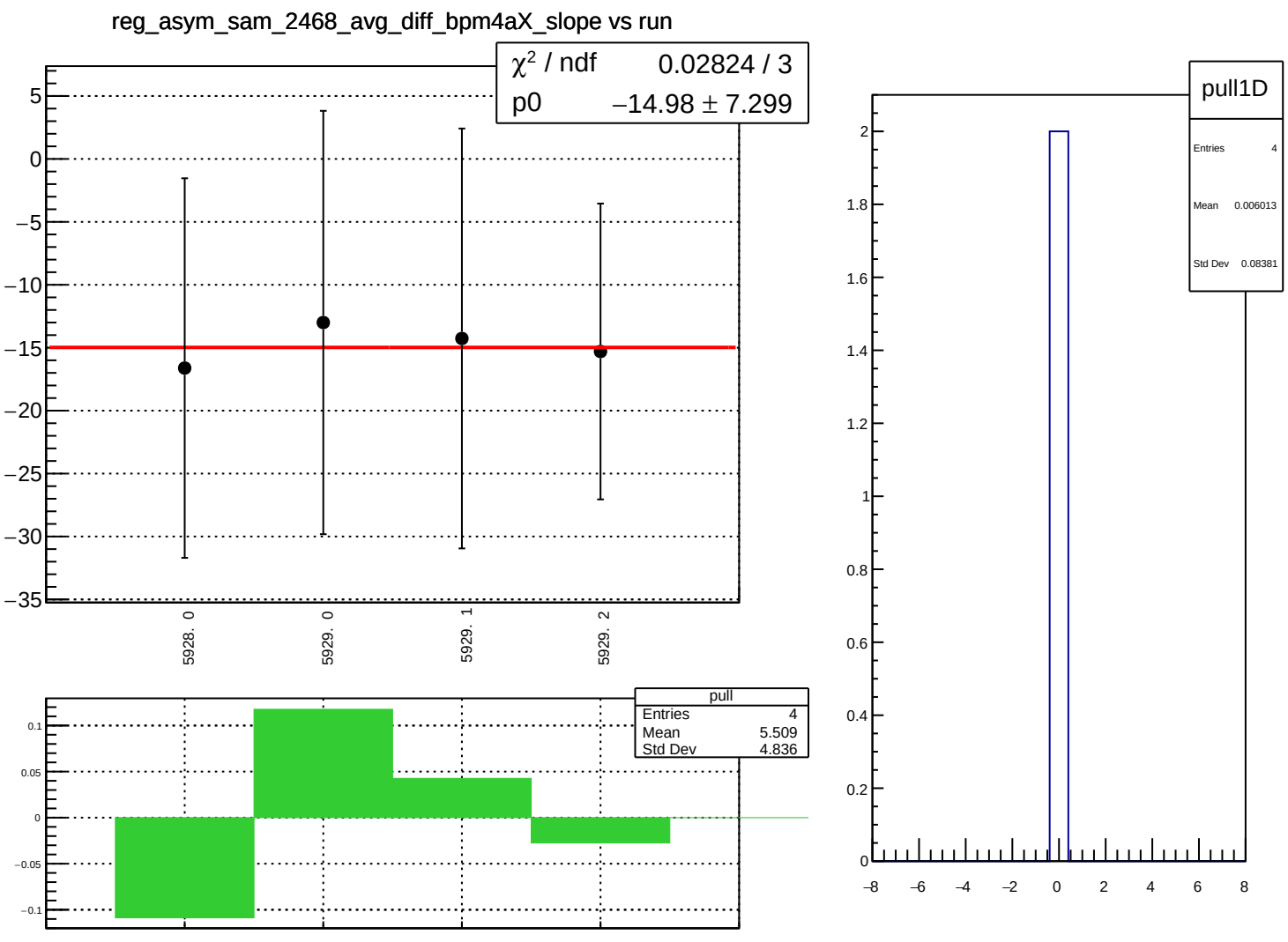

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.254 / 3
p0 7.946 ± 3.033
16
14
12
10
8
6
4
2
0
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.13
Std Dev 9.494
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.02192
Std Dev 0.251
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

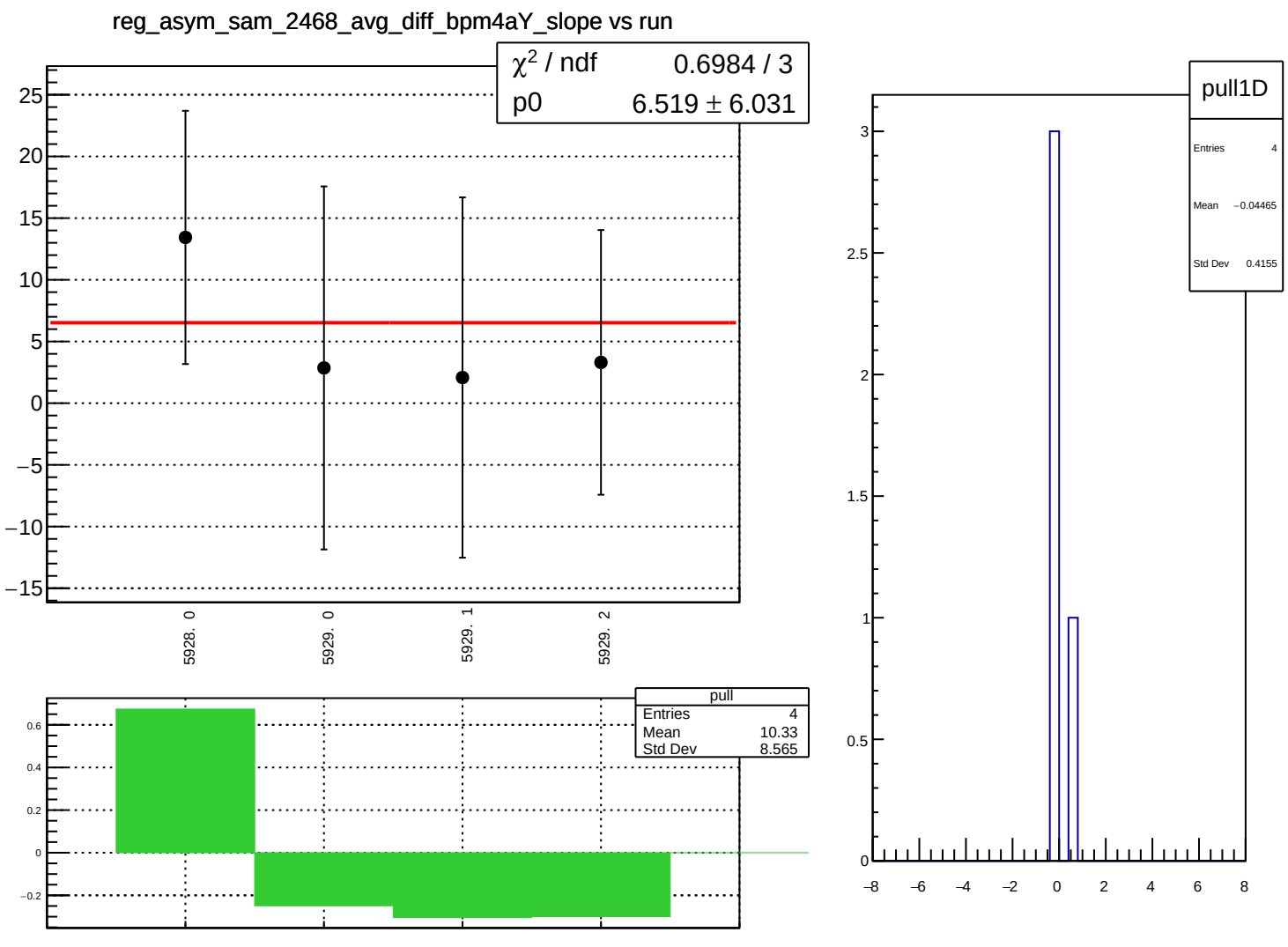

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.06877 / 3
p0 −35.59 ± 4.602
−25
−30
−35
−40
−45
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −55.22
Std Dev 56.52
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 4
Mean 0.001209
Std Dev 0.1311
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

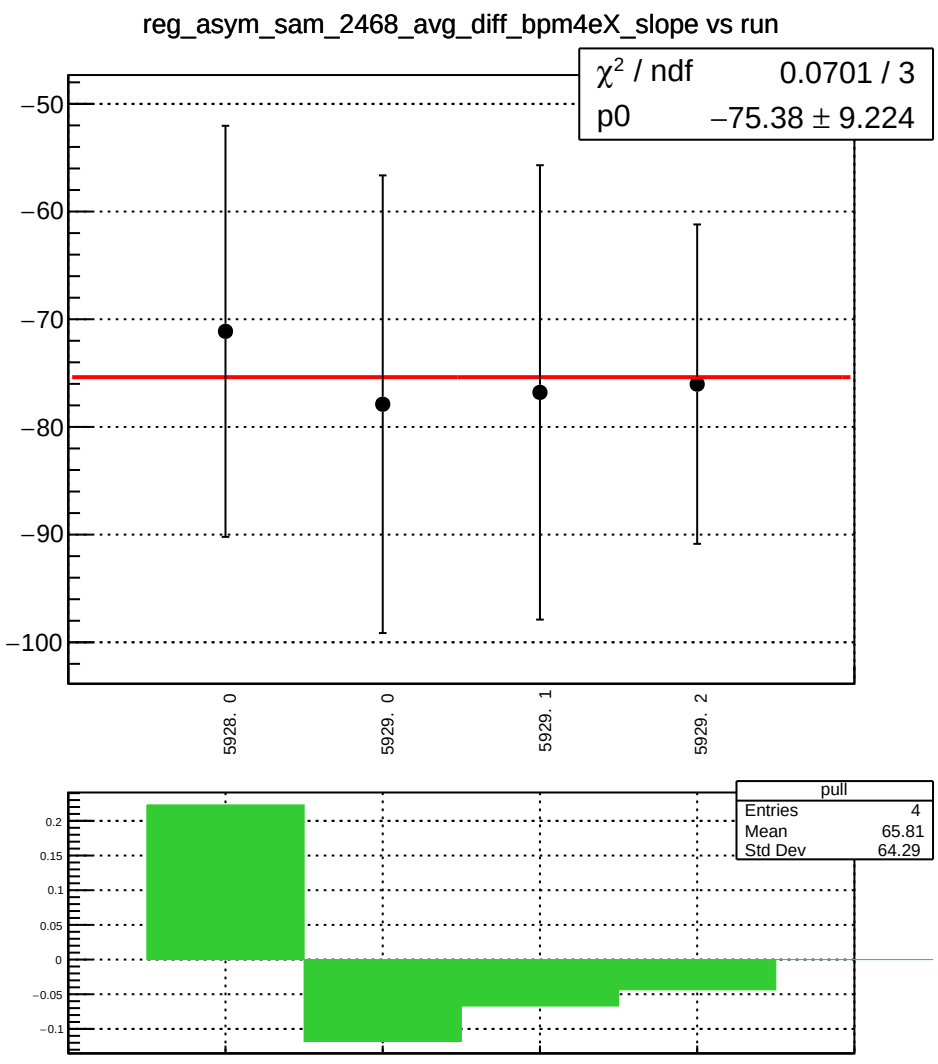

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.1234 / 3
p0 26.16 ± 3.375
36
34
32
30
28
26
24
22
20
18
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 22.35
Std Dev 20.57
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull1D
Entries 4
Mean 0.008446
Std Dev 0.1754
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

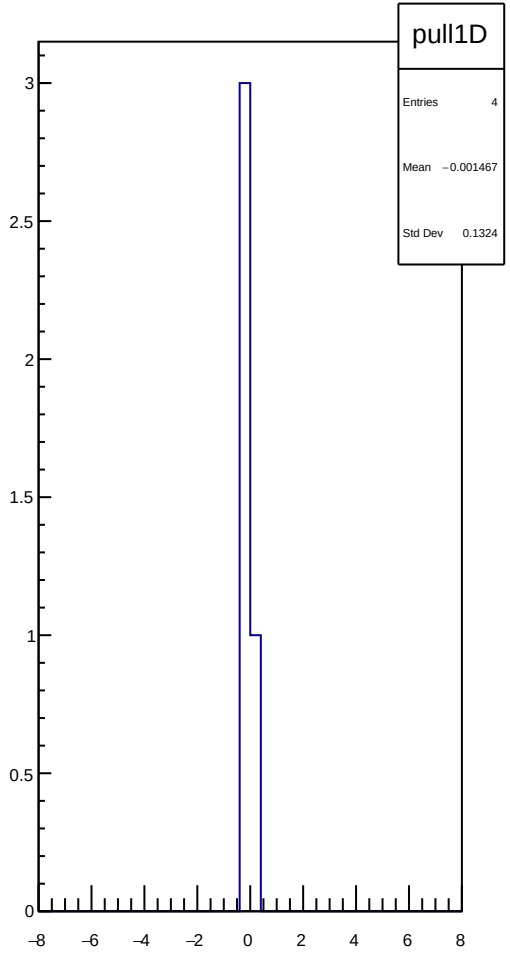

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 0.0929 / 3
p0 −0.5816 ± 0.2106
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 43.06
Std Dev 41.78
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

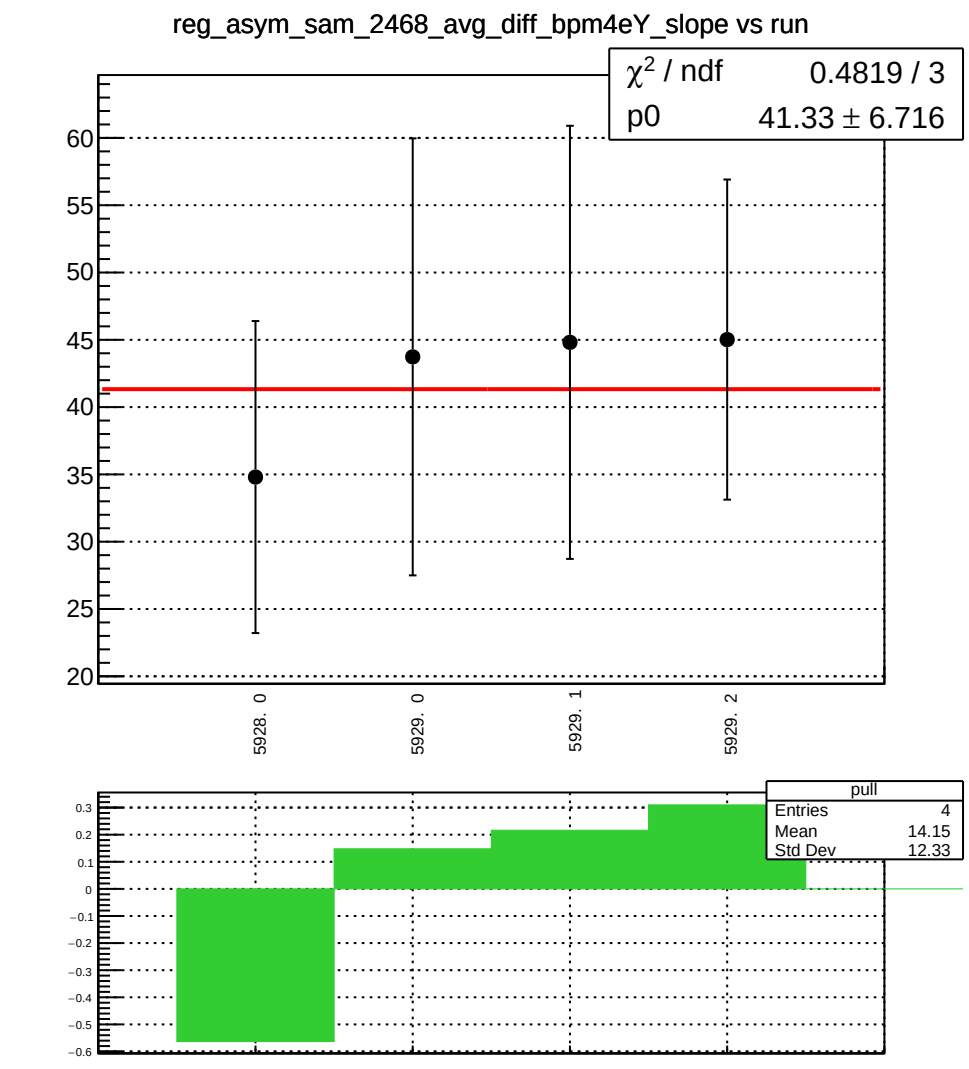

pull1D
Entries 4
Mean 0.002156
Std Dev 0.1524
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

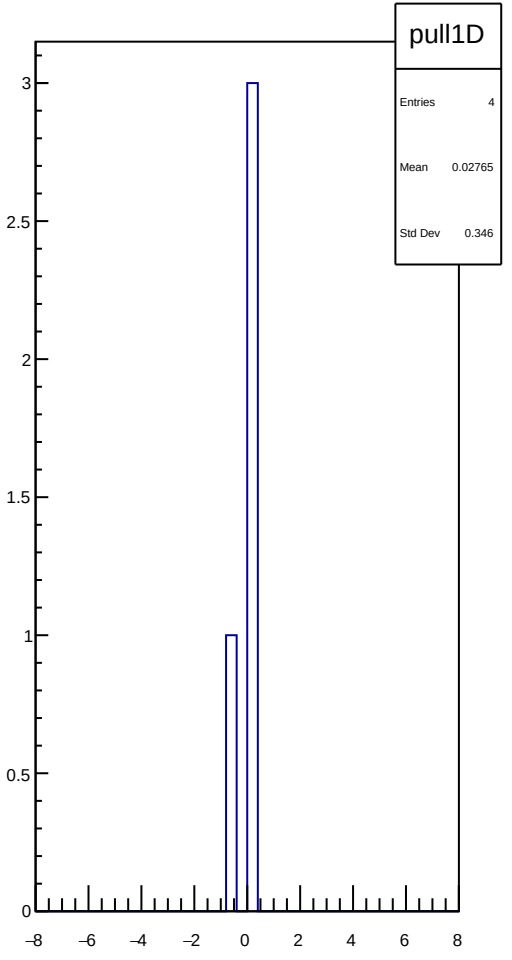

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.02824 / 3
p0 −14.98 ± 7.299
5
0
−5
−10
−15
−20
−25
−30
−35
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.509
Std Dev 4.836
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.006013
Std Dev 0.08381
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

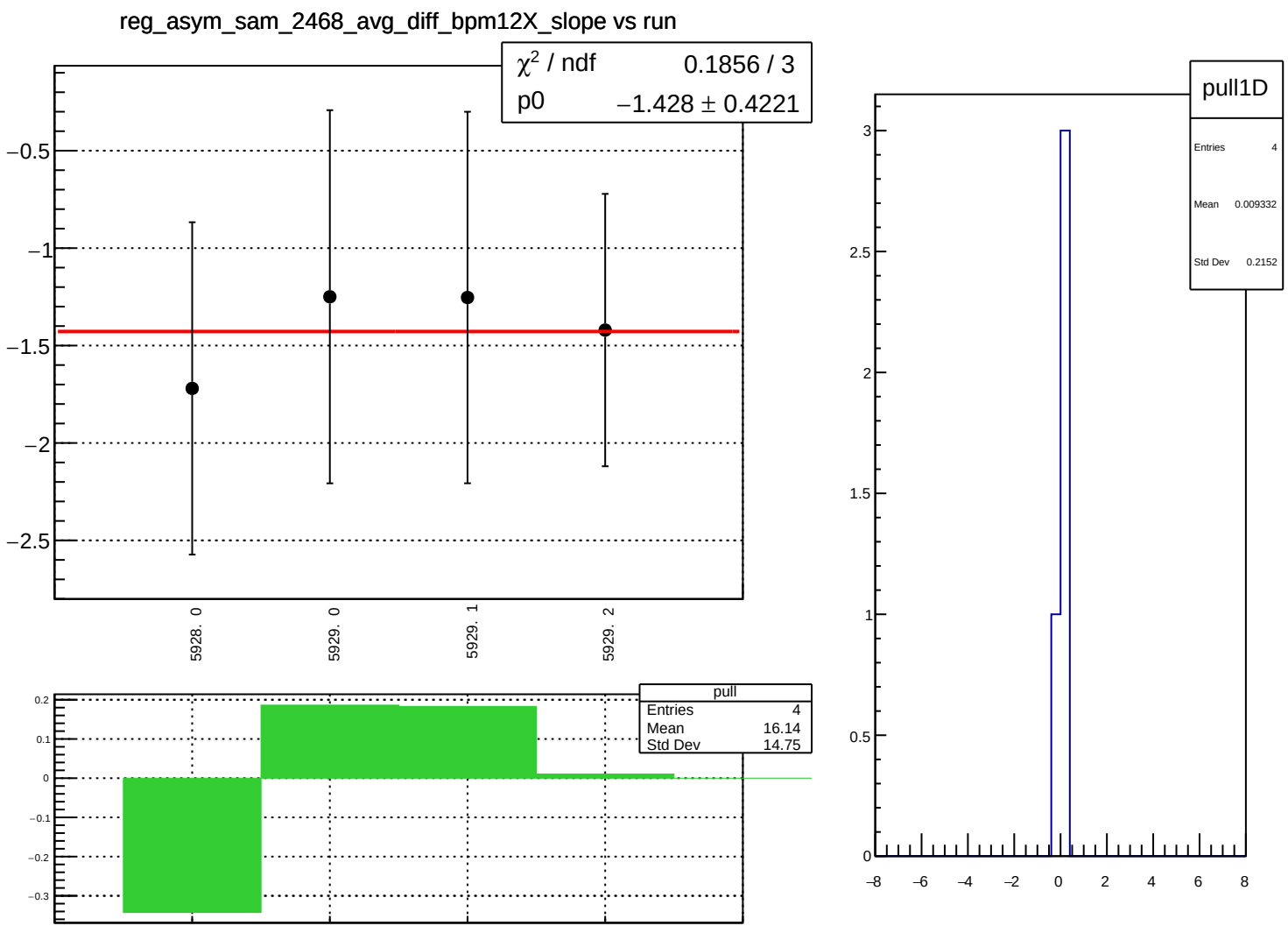

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.6984 / 3
p0 6.519 ± 6.031
25
20
15
10
5
0
−5
−10
−15
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.33
Std Dev 8.565
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean −0.04465
Std Dev 0.4155
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

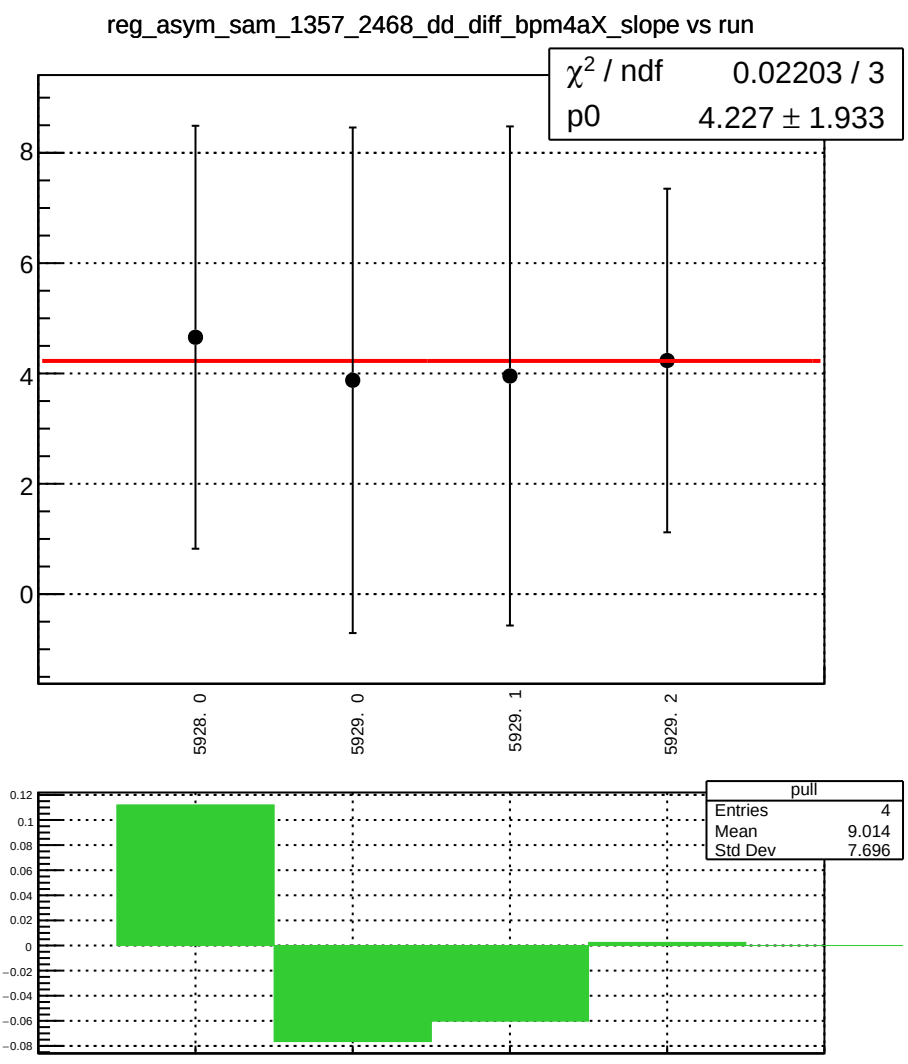

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.0701 / 3
p0 −75.38 ± 9.224
−50
−60
−70
−80
−90
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 65.81
Std Dev 64.29
0.2
0.15
0.1
0.05
0
−0.05
−0.1

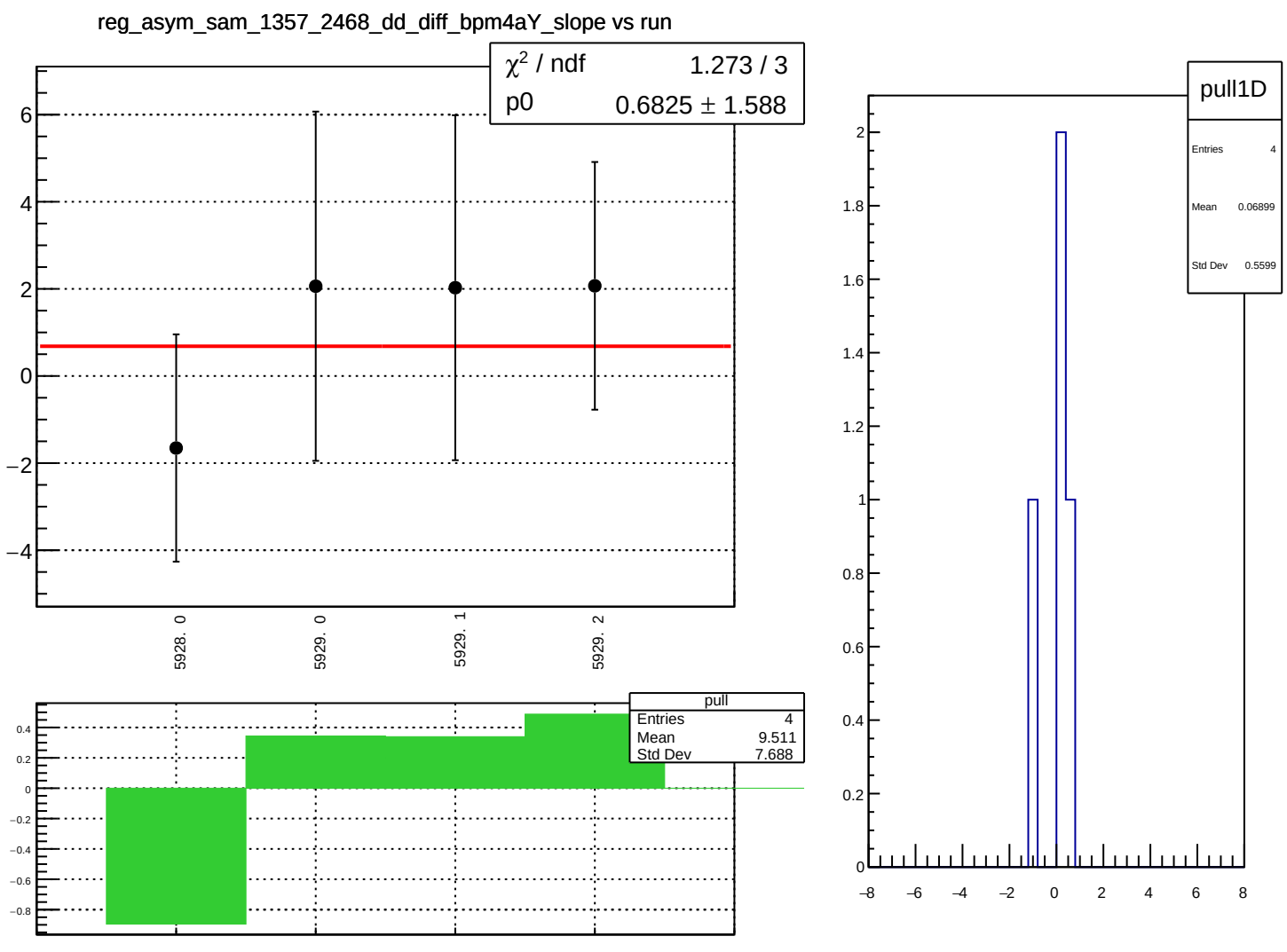

pull1D
Entries 4
Mean −0.001467
Std Dev 0.1324
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

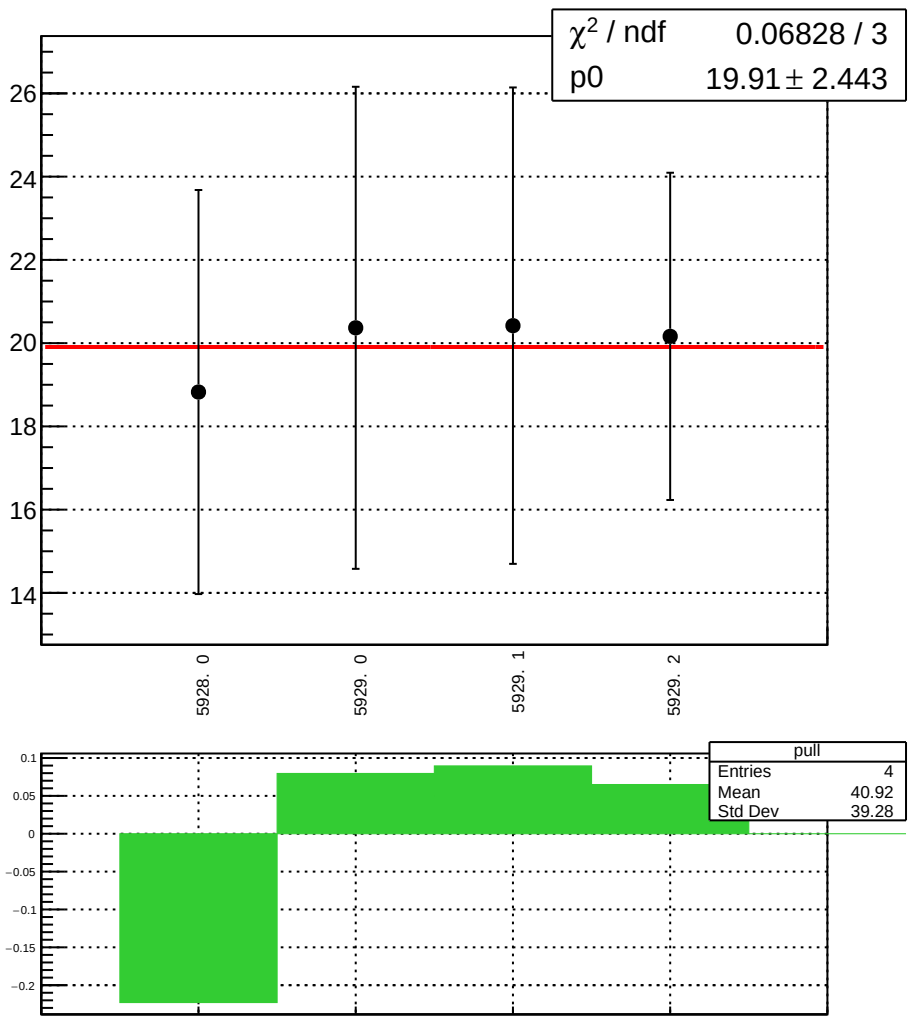

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4819 / 3
p0 41.33 ± 6.716
60
55
50
45
40
35
30
25
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 14.15
Std Dev 12.33
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

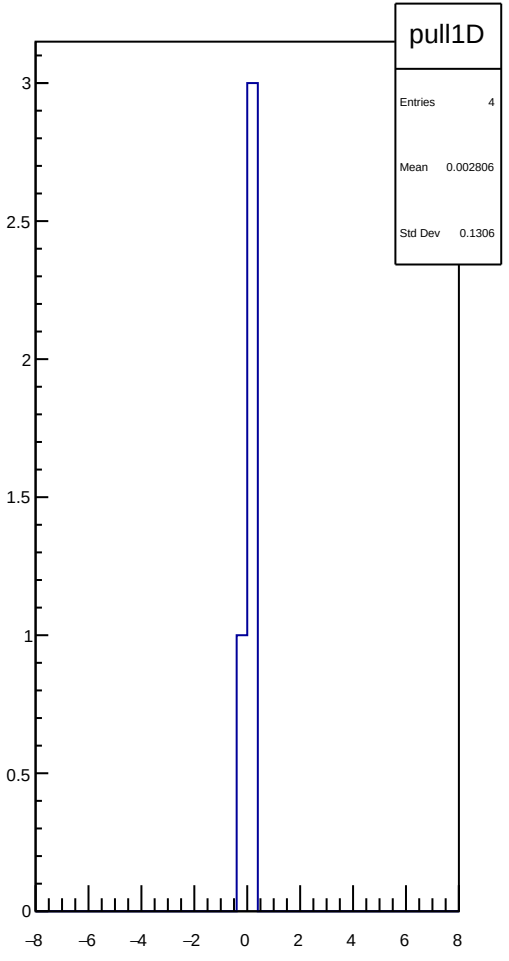

pull1D
Entries 4
Mean 0.02765
Std Dev 0.346
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

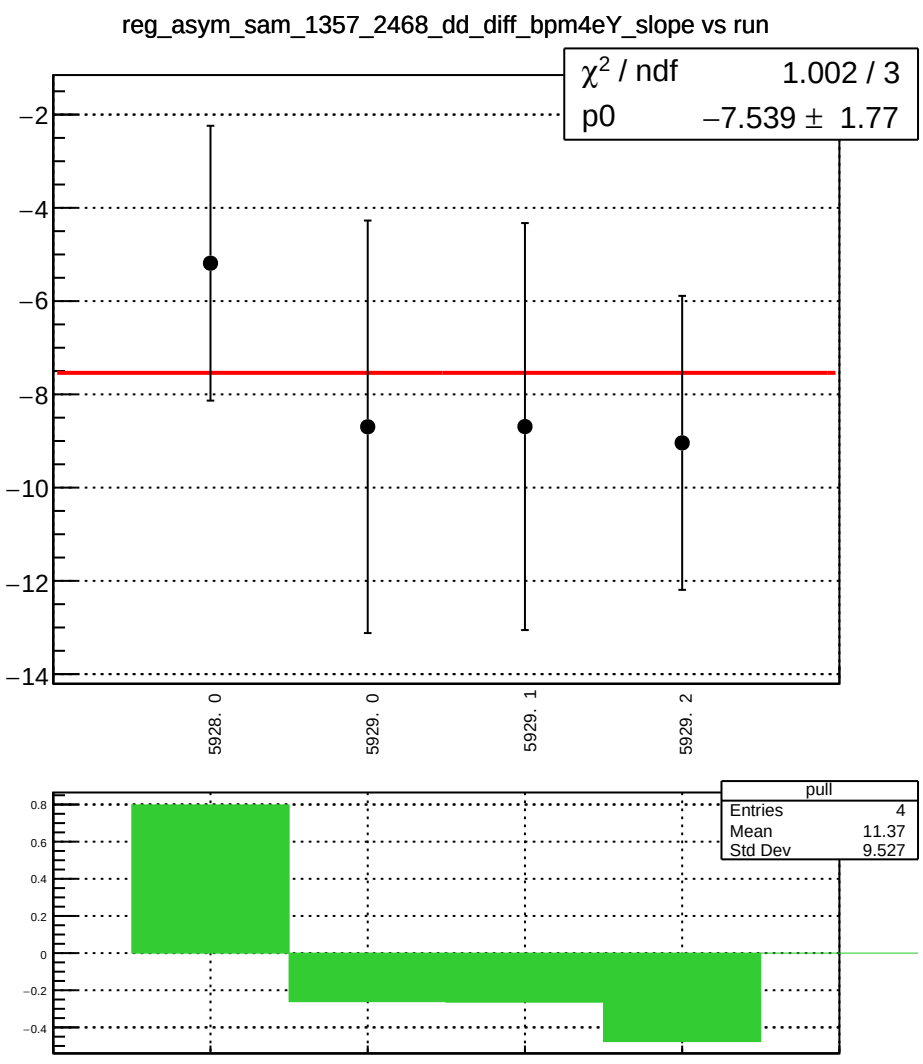

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.1856 / 3
p0 −1.428 ± 0.4221
−0.5
−1
−1.5
−2
−2.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 16.14
Std Dev 14.75
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.009332
Std Dev 0.2152
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

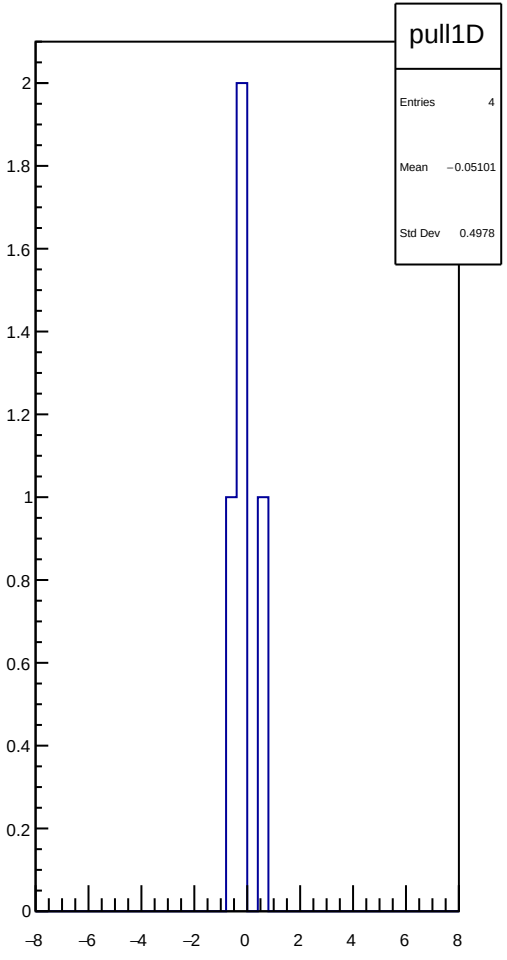

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.02203 / 3
p0 4.227 ± 1.933
8
6
4
2
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.014
Std Dev 7.696
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull1D
Entries 4
Mean −0.005565
Std Dev 0.074
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

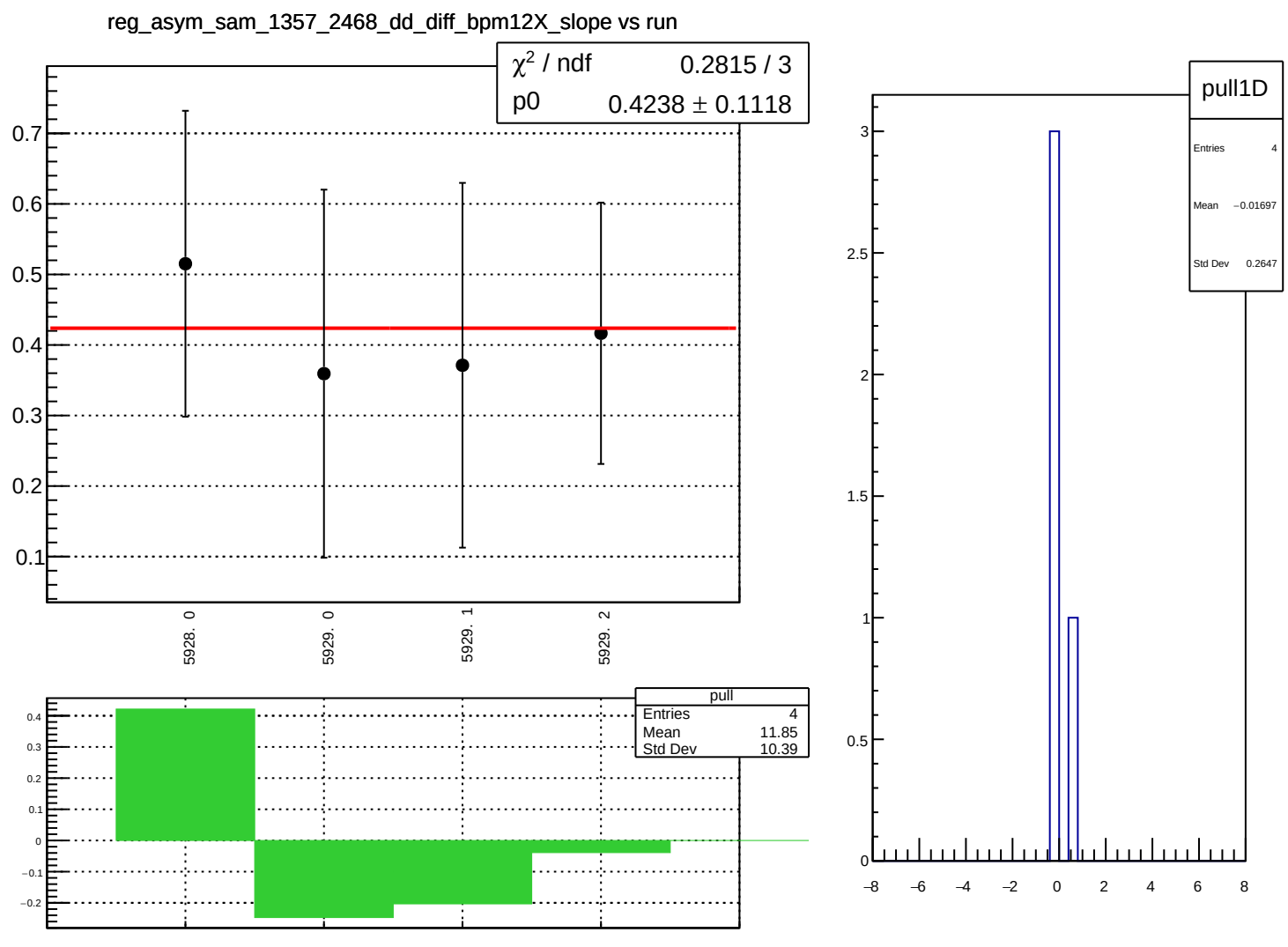

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.273 / 3
p0 0.6825 ± 1.588
6
4
2
0
−2
−4
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 9.511
Std Dev 7.688
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.06899
Std Dev 0.5599
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

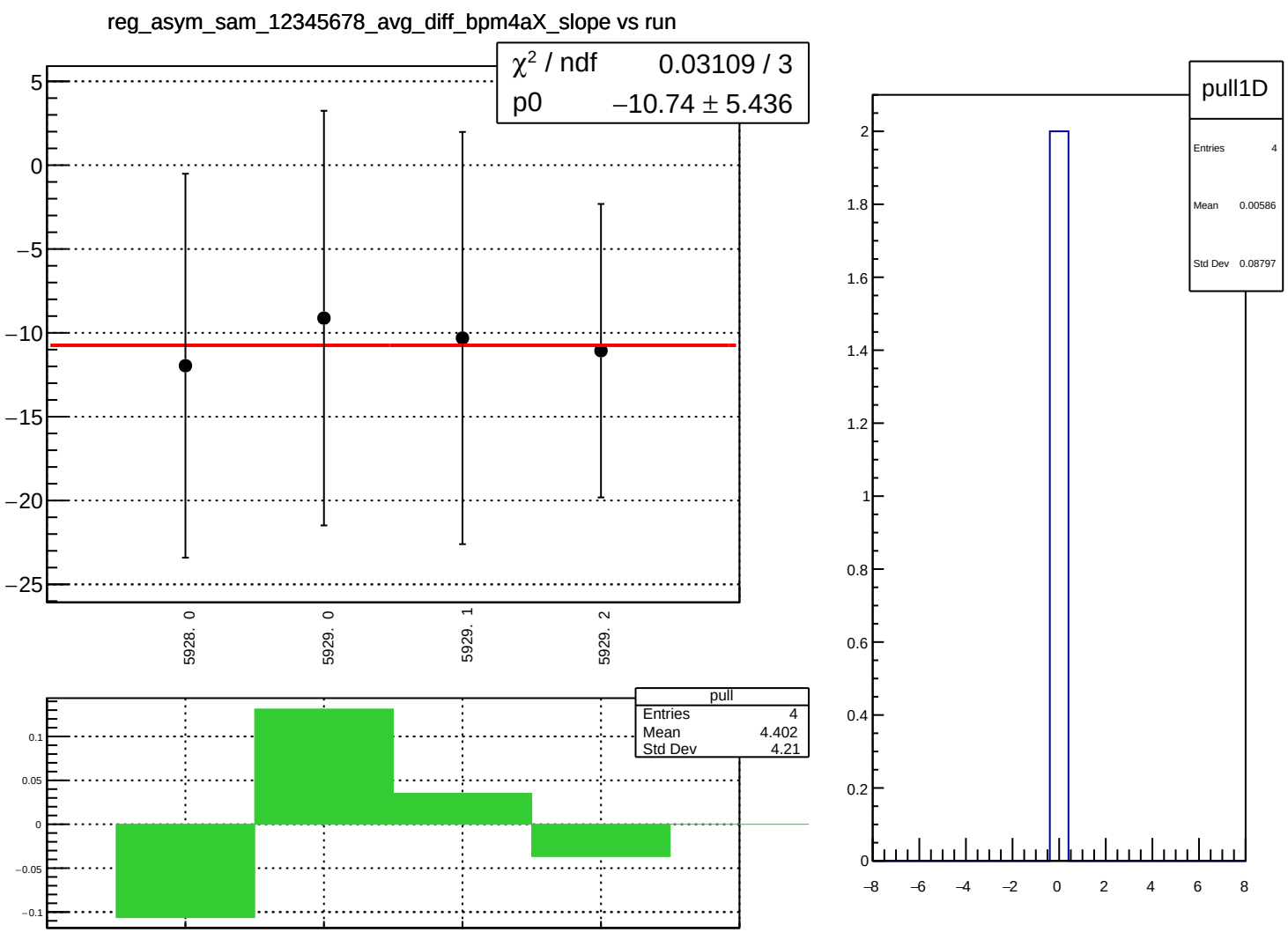

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.06828 / 3
p0 19.91 ± 2.443
26
24
22
20
18
16
14
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 40.92
Std Dev 39.28
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

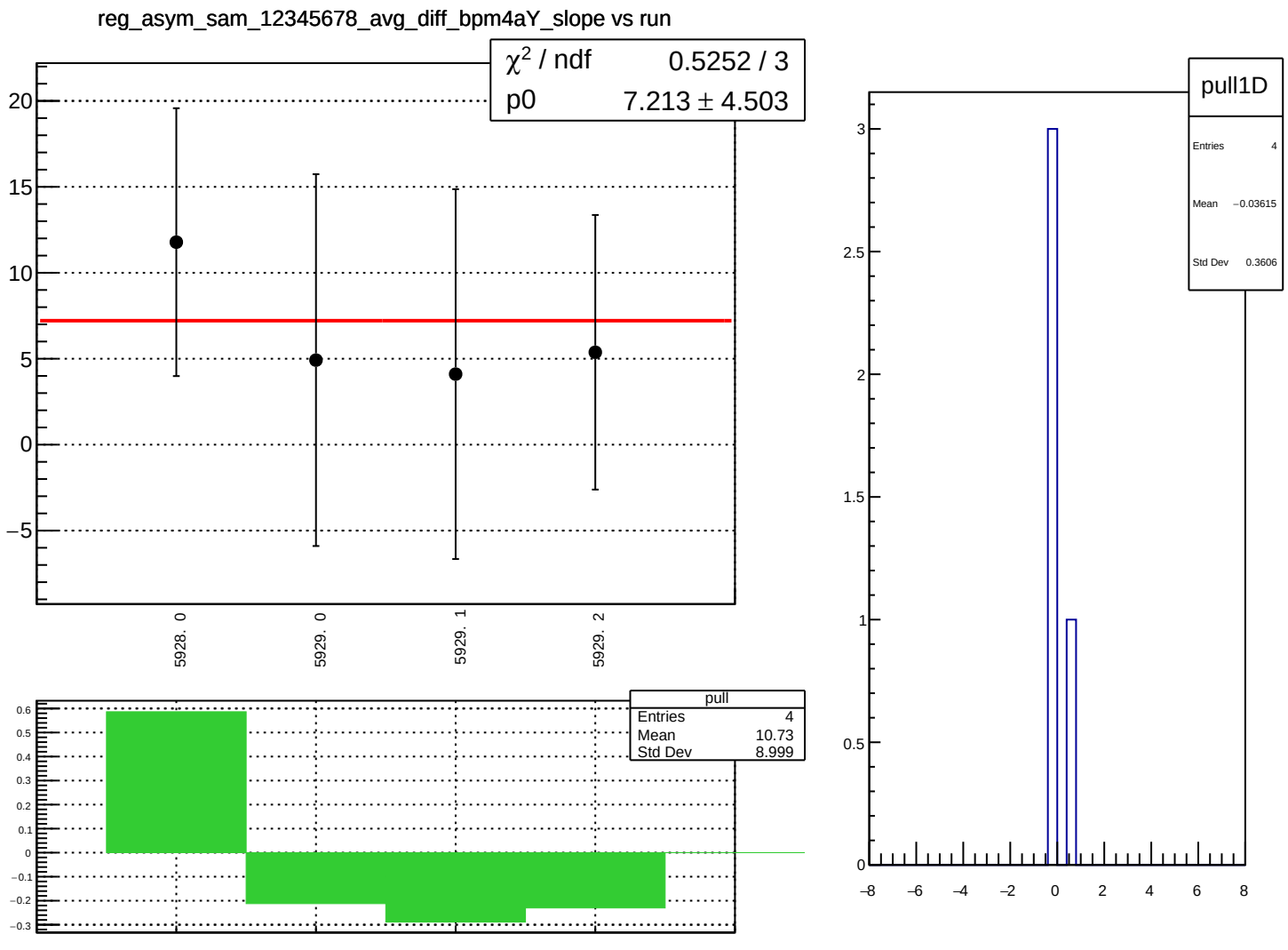

pull1D
Entries 4
Mean 0.002806
Std Dev 0.1306
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

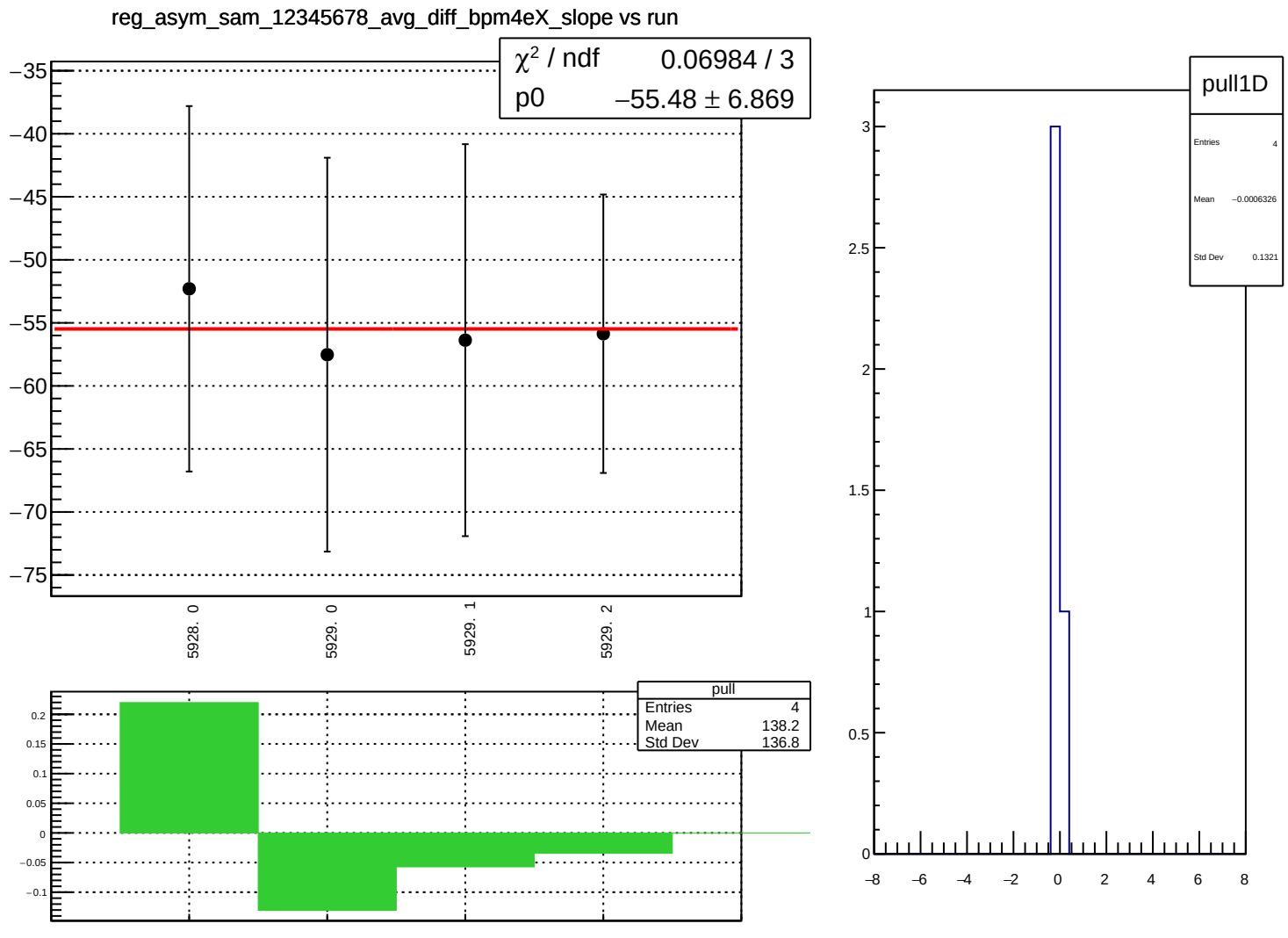

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.002 / 3
p0 −7.539 ± 1.77
−2
−4
−6
−8
−10
−12
−14
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.37
Std Dev 9.527
0.8
0.6
0.4
0.2
0
−0.2
−0.4

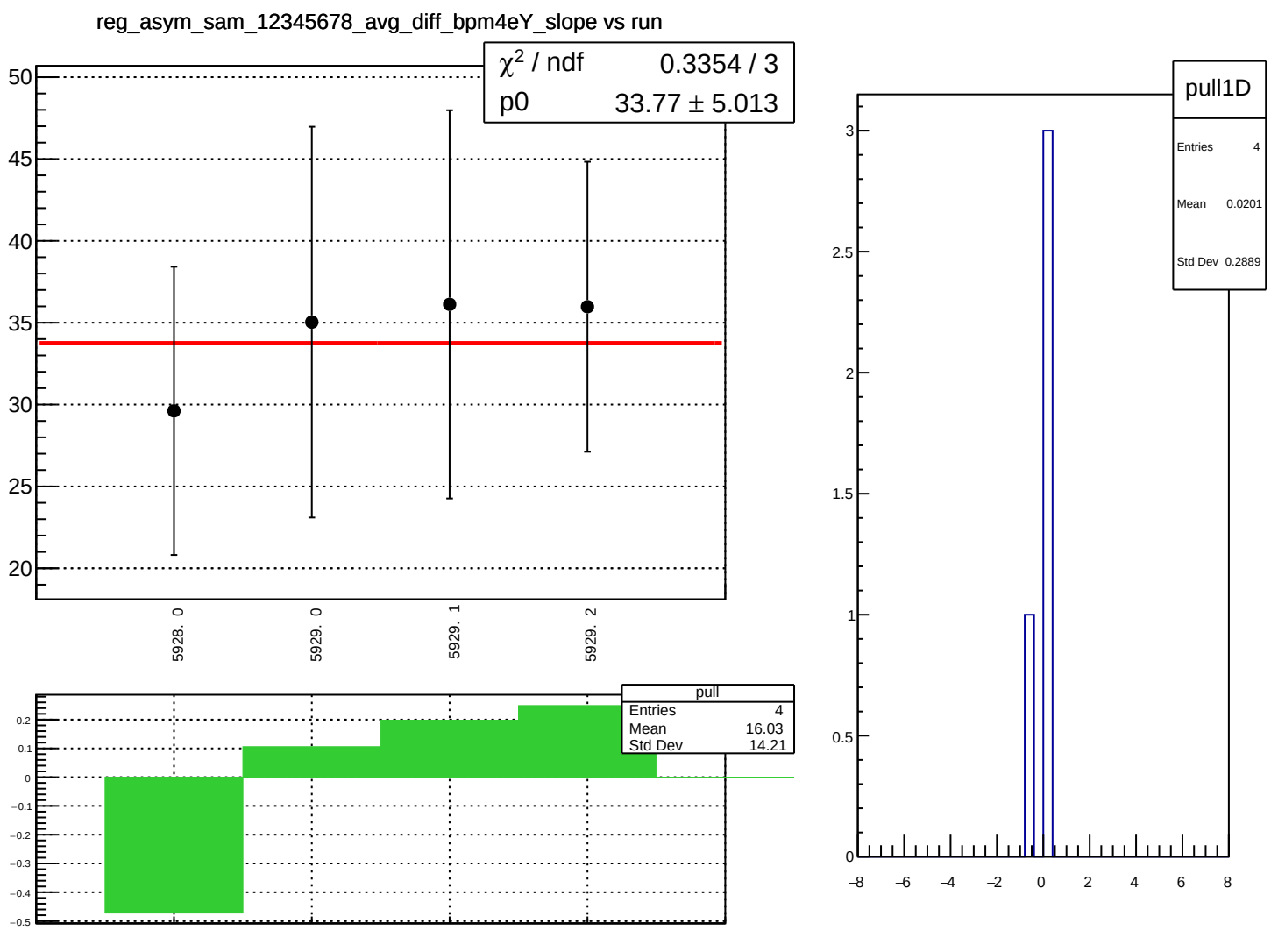

pull1D
Entries 4
Mean −0.05101
Std Dev 0.4978
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

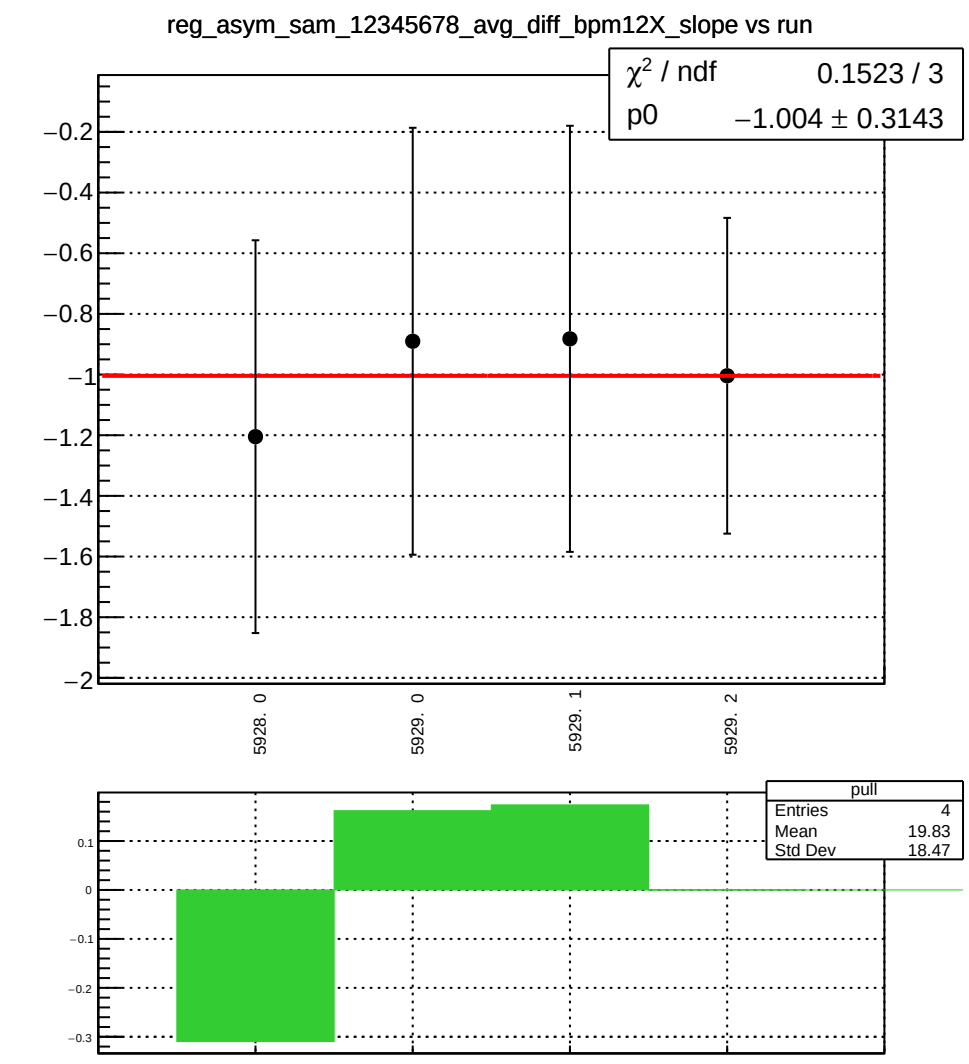

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2815 / 3
p0 0.4238 ± 0.1118
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 11.85
Std Dev 10.39
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean −0.01697
Std Dev 0.2647
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

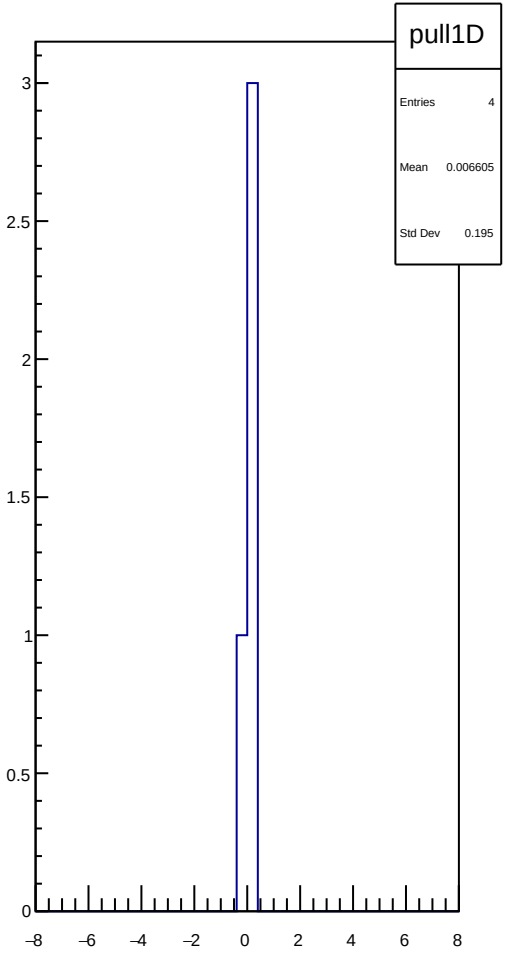

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.03109 / 3
p0 −10.74 ± 5.436
5
0
−5
−10
−15
−20
−25
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.402
Std Dev 4.21
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean 0.00586
Std Dev 0.08797
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

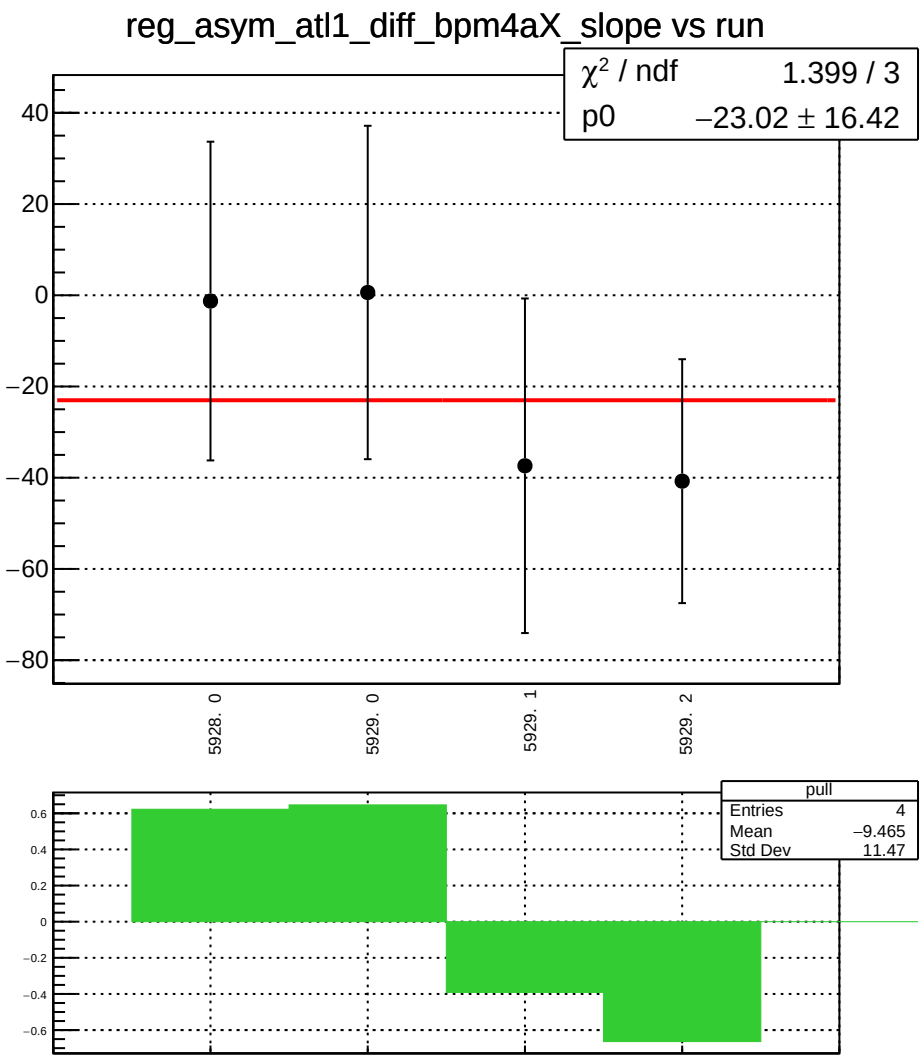

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5252 / 3
p0 7.213 ± 4.503
20
15
10
5
0
−5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 10.73
Std Dev 8.999
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.03615
Std Dev 0.3606
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

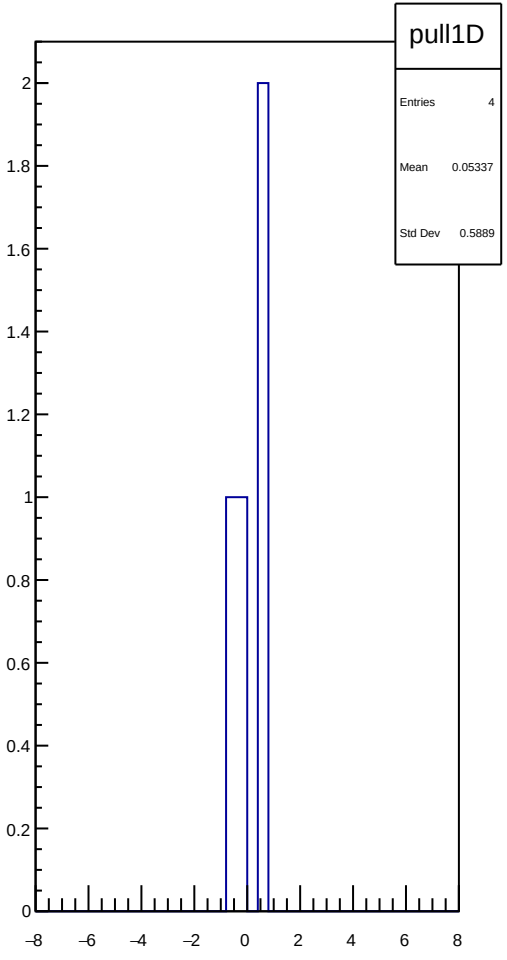

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.06984 / 3
p0 −55.48 ± 6.869
−35
−40
−45
−50
−55
−60
−65
−70
−75
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 138.2
Std Dev 136.8
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull1D
Entries 4
Mean −0.0006326
Std Dev 0.1321
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

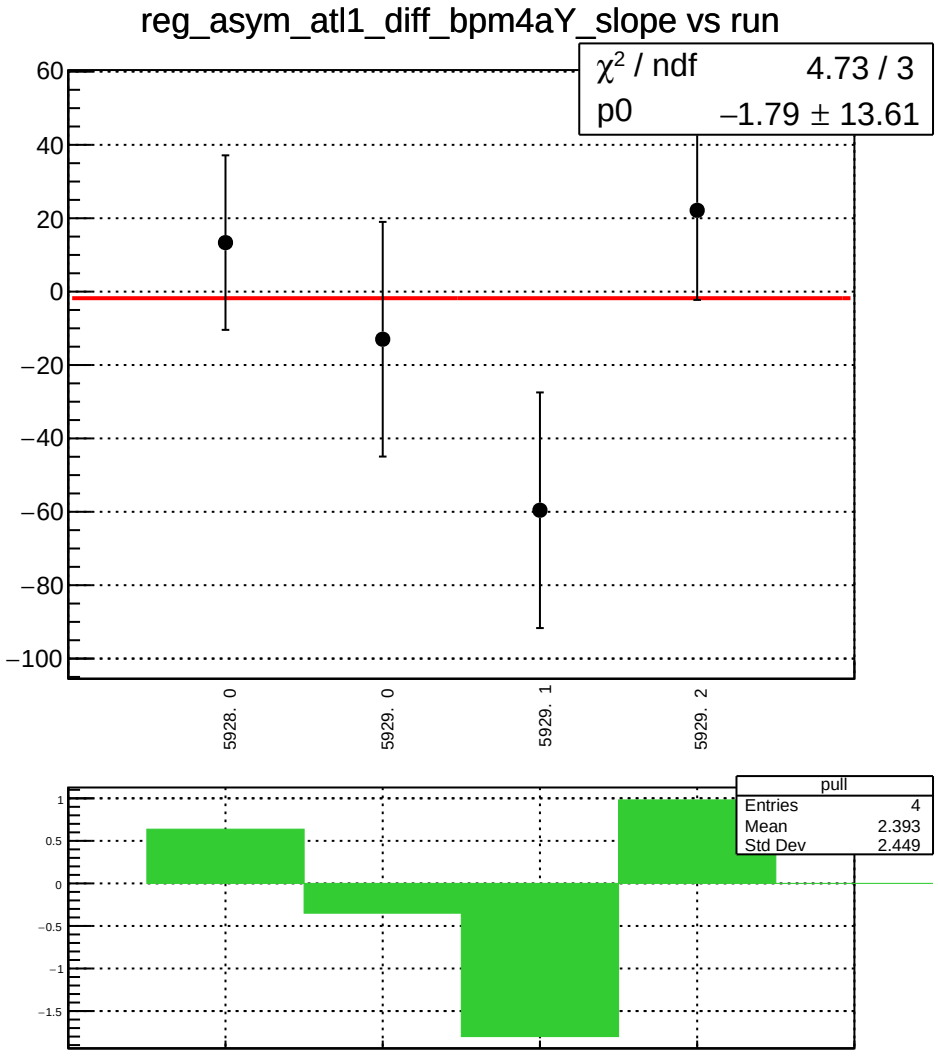

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.3354 / 3
p0 33.77 ± 5.013
50
45
40
35
30
25
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 16.03
Std Dev 14.21
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 4
Mean 0.0201
Std Dev 0.2889
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

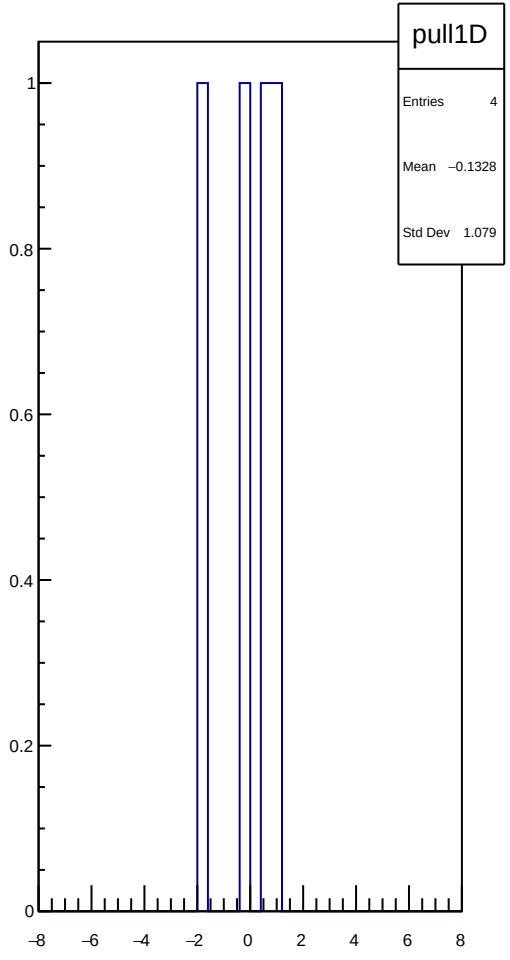

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.1523 / 3
p0 −1.004 ± 0.3143
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 19.83
Std Dev 18.47
0.1
0
−0.1
−0.2
−0.3

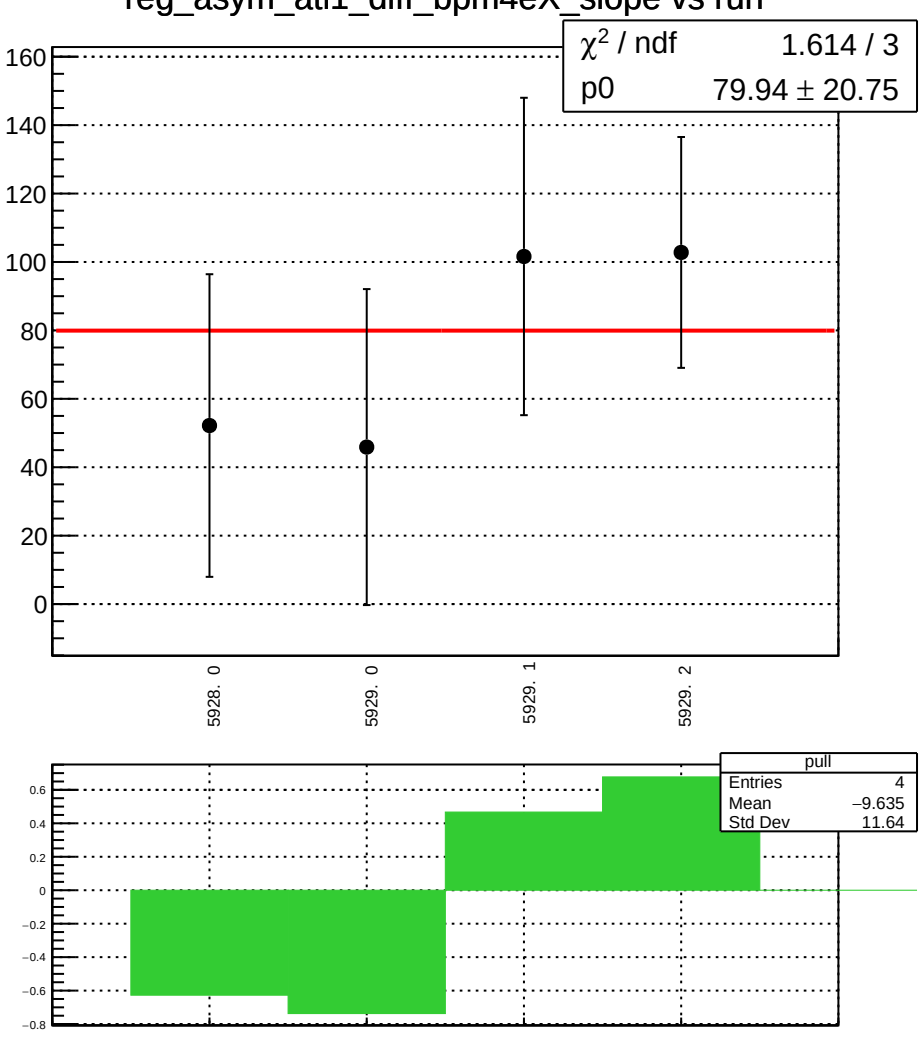

pull1D
Entries 4
Mean 0.006605
Std Dev 0.195
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

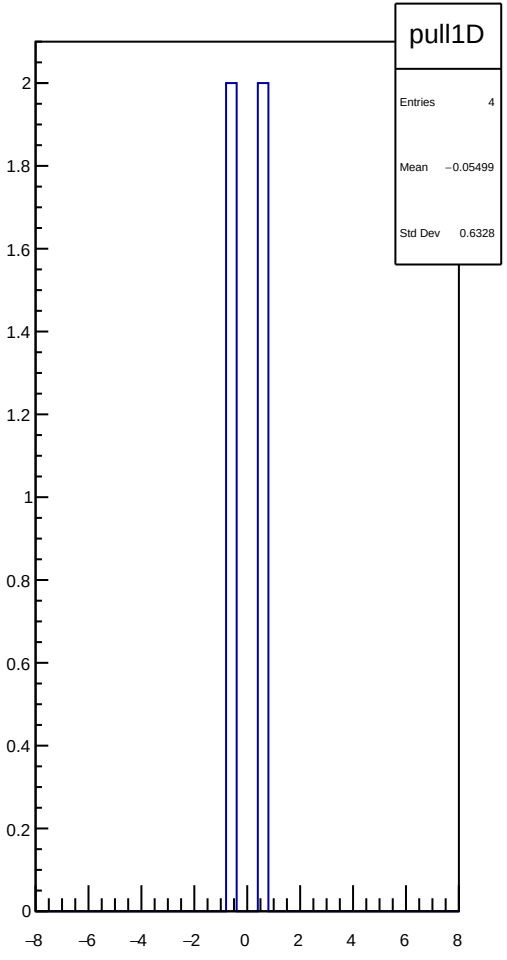

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 1.399 / 3
p0 −23.02 ± 16.42
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.465
Std Dev 11.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

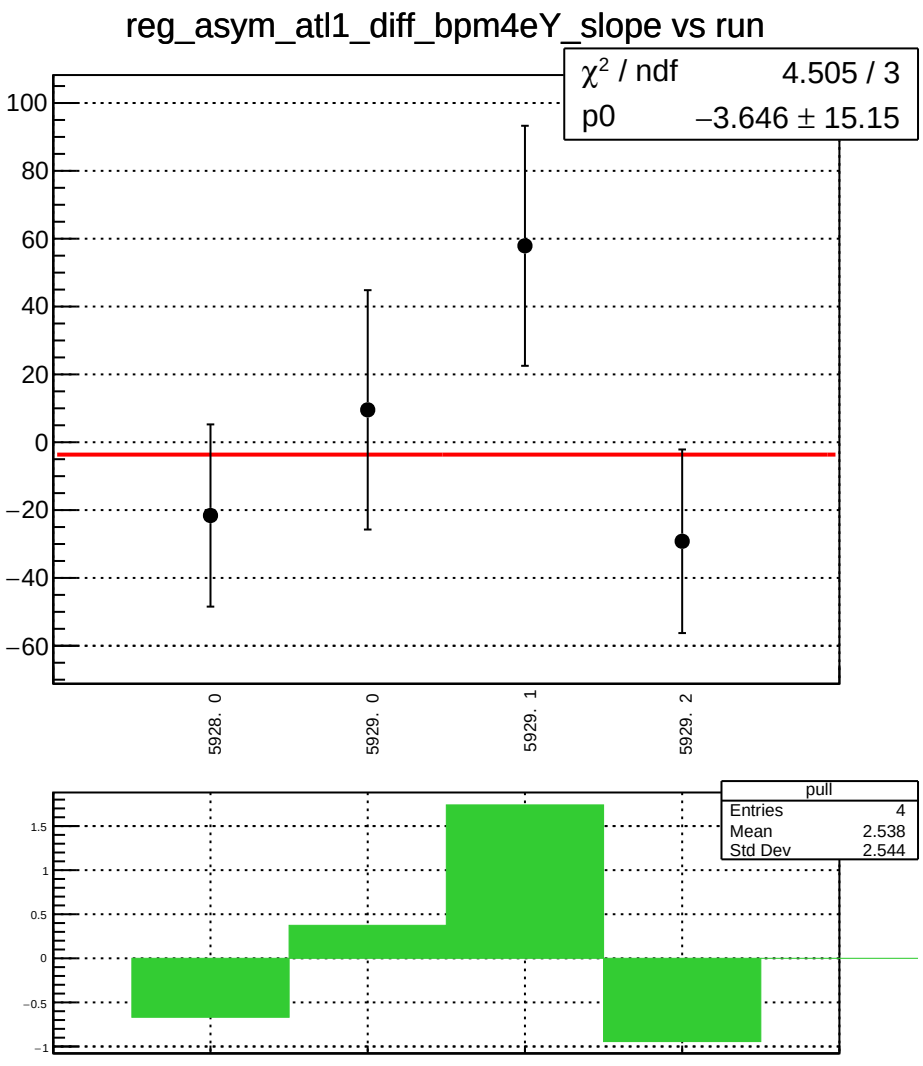

pull1D
Entries 4
Mean 0.05337
Std Dev 0.5889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

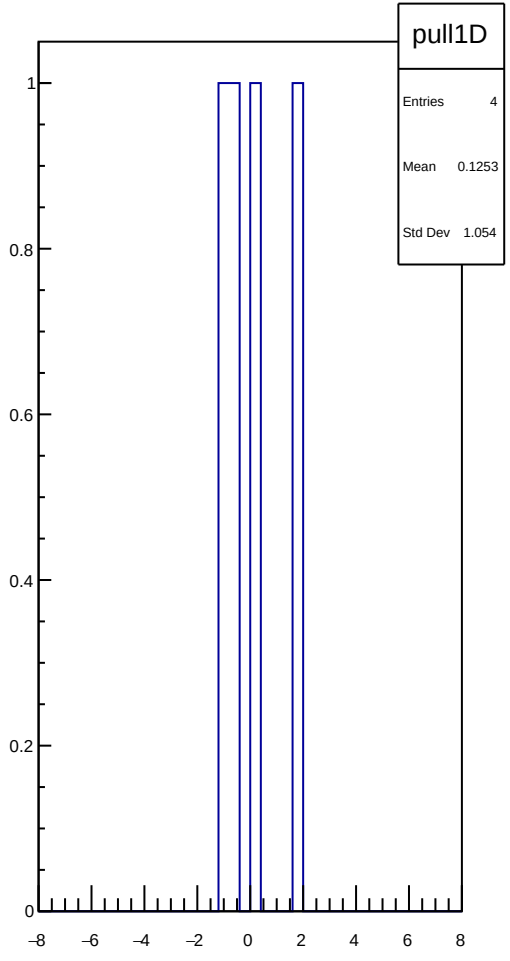

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 4.73 / 3
p0 −1.79 ± 13.61
60
40
20
0
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.393
Std Dev 2.449
1
0.5
0
−0.5
−1
−1.5

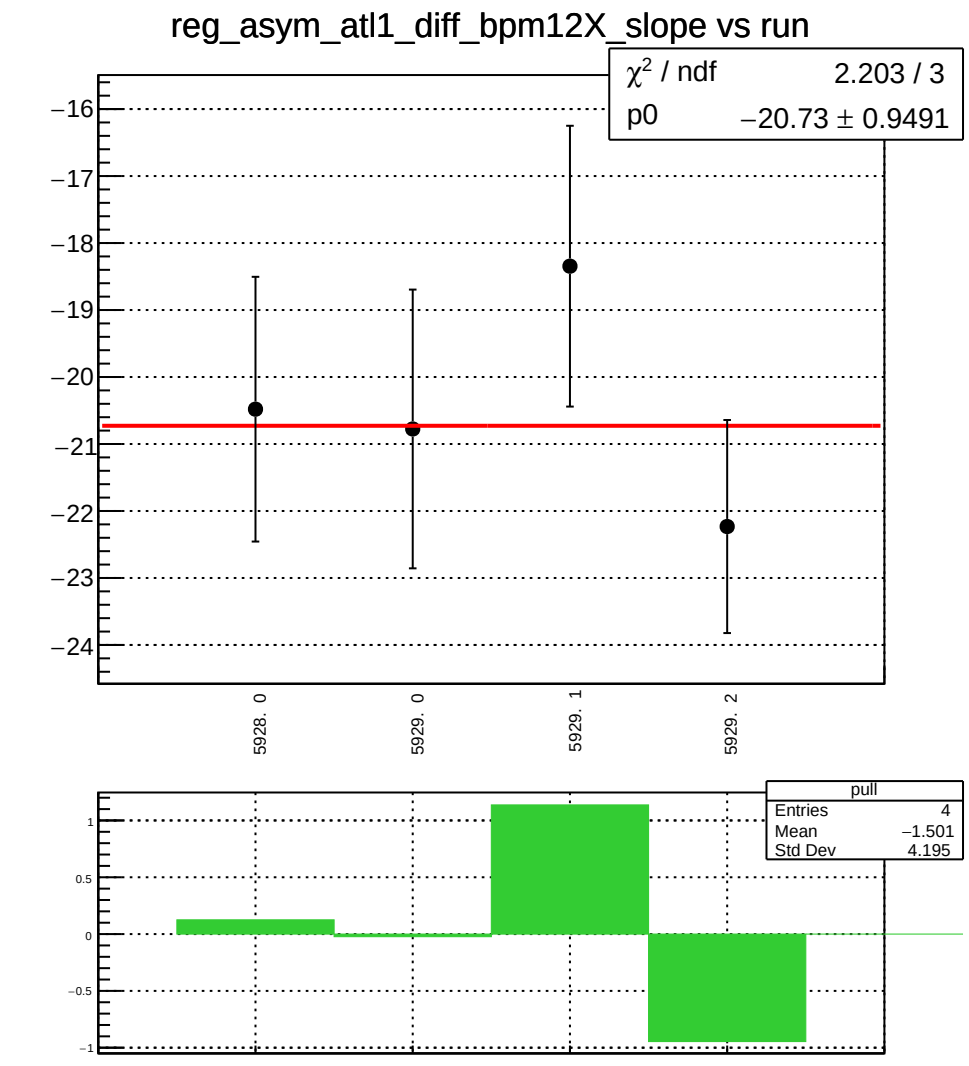

pull1D
Entries 4
Mean −0.1328
Std Dev 1.079
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

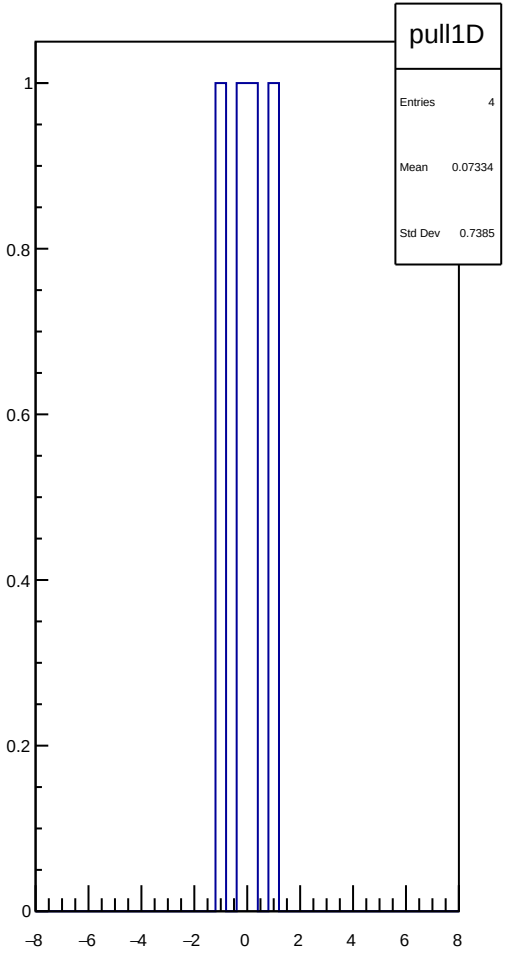

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 1.614 / 3
p0 79.94 ± 20.75
160
140
120
100
80
60
40
20
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.635
Std Dev 11.64
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

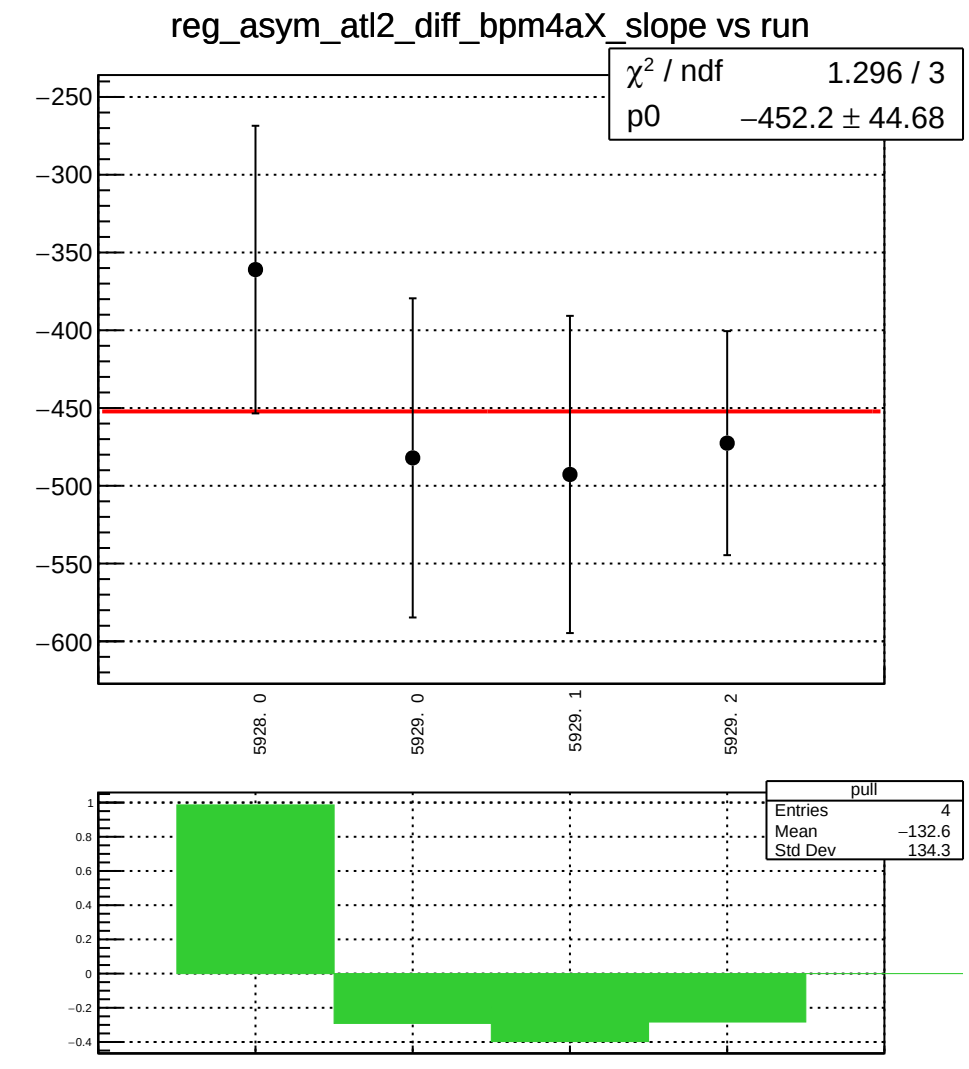

pull1D
Entries 4
Mean −0.05499
Std Dev 0.6328
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

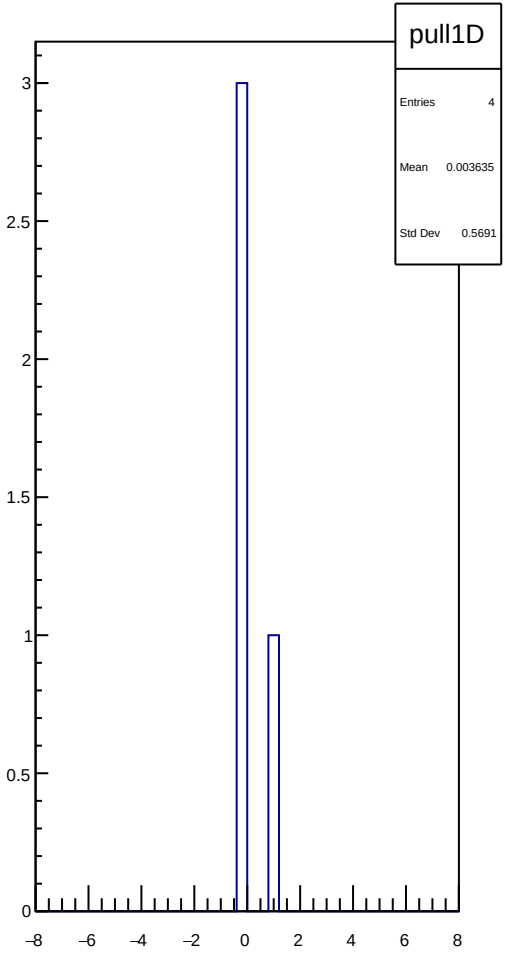

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 4.505 / 3
p0 −3.646 ± 15.15
100
80
60
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 2.538
Std Dev 2.544
1.5
1
0.5
0
−0.5
−1

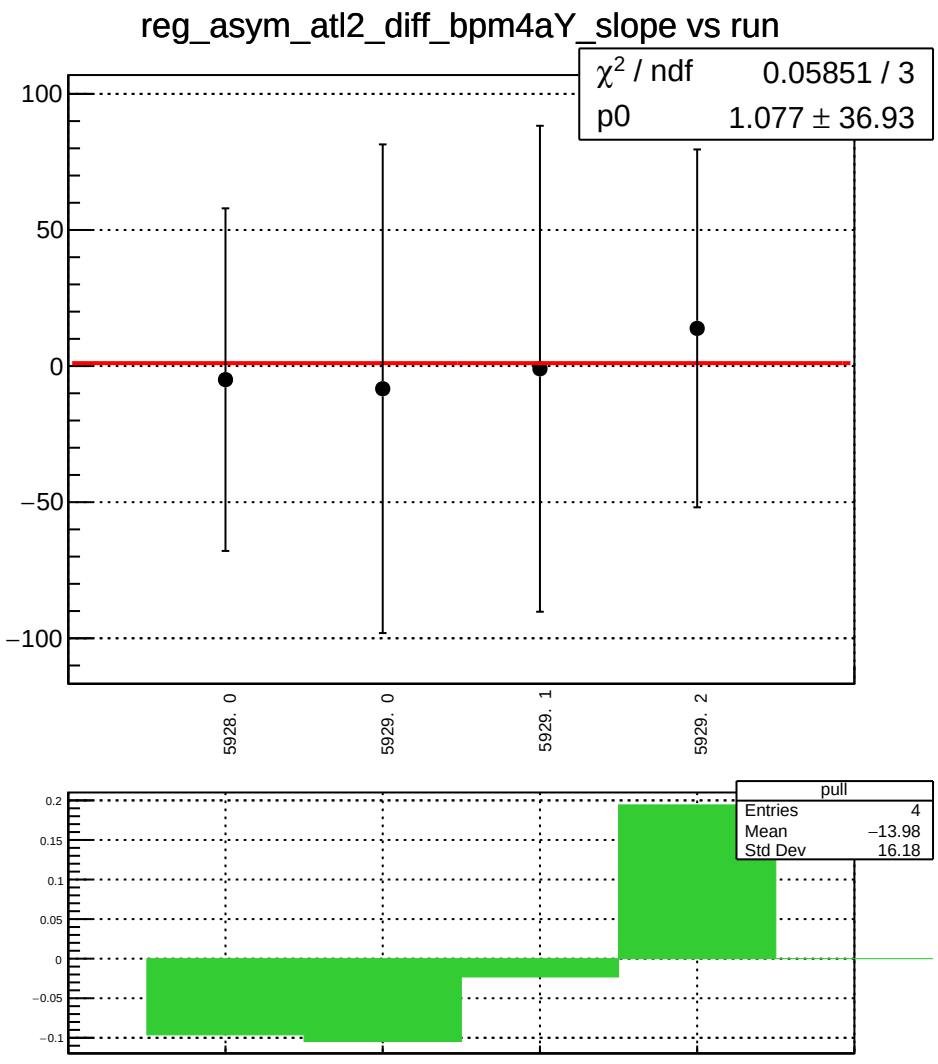

pull1D
Entries 4
Mean 0.1253
Std Dev 1.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

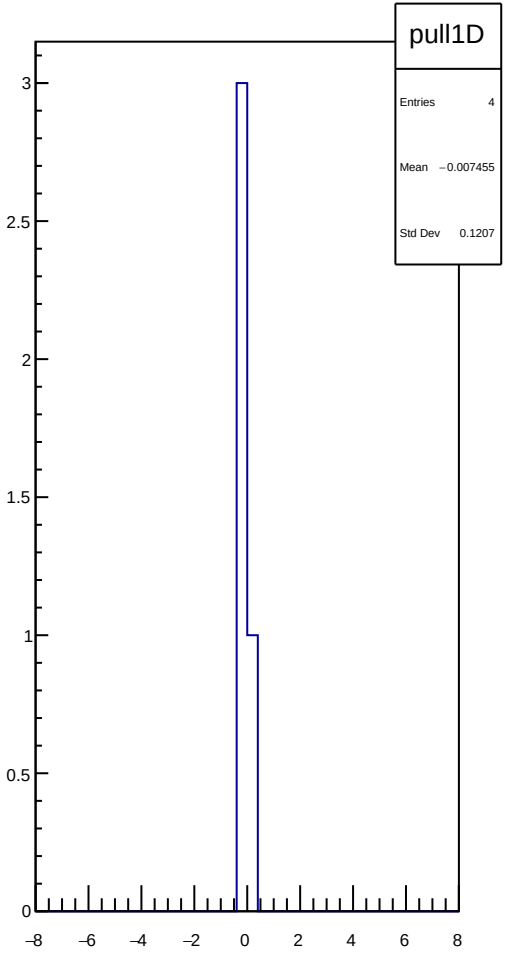

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2.203 / 3
p0 −20.73 ± 0.9491
−16
−17
−18
−19
−20
−21
−22
−23
−24
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.501
Std Dev 4.195
1
0.5
0
−0.5
−1

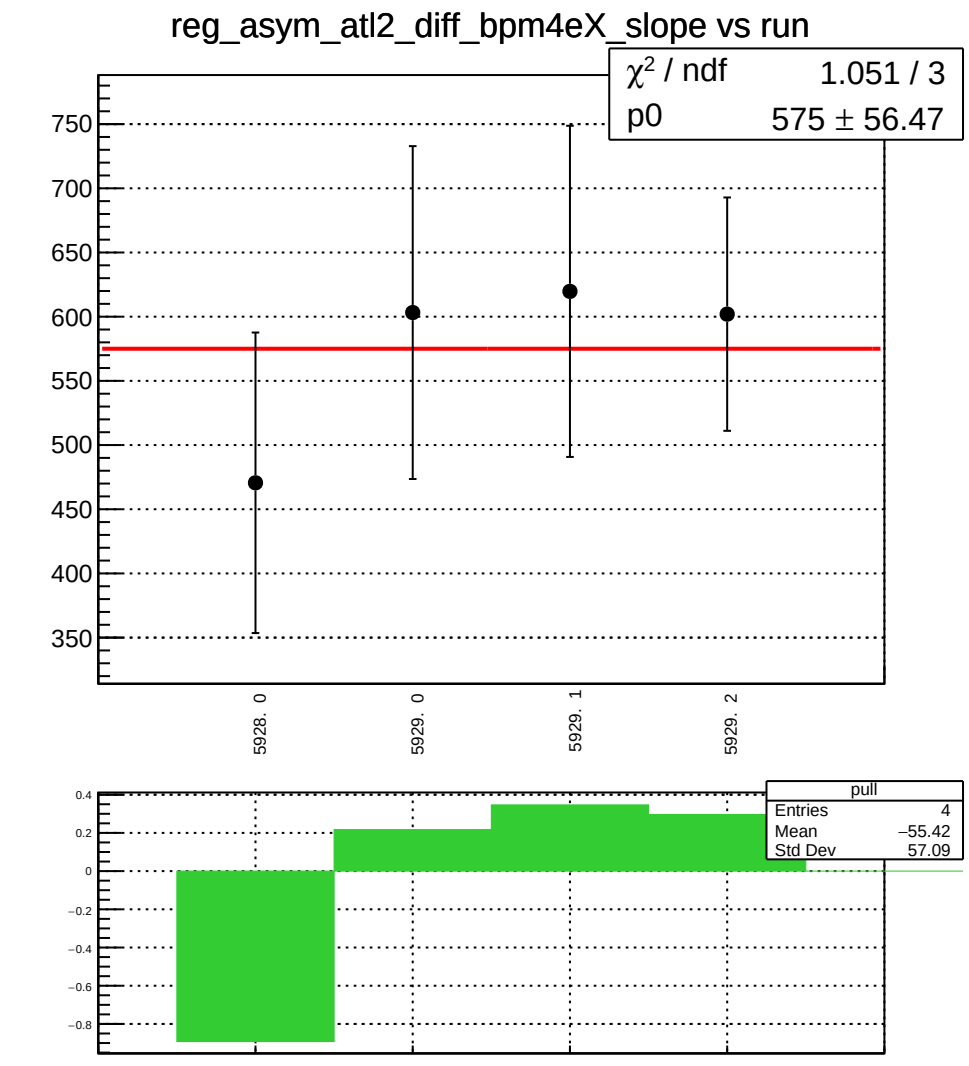

pull1D
Entries 4
Mean 0.07334
Std Dev 0.7385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

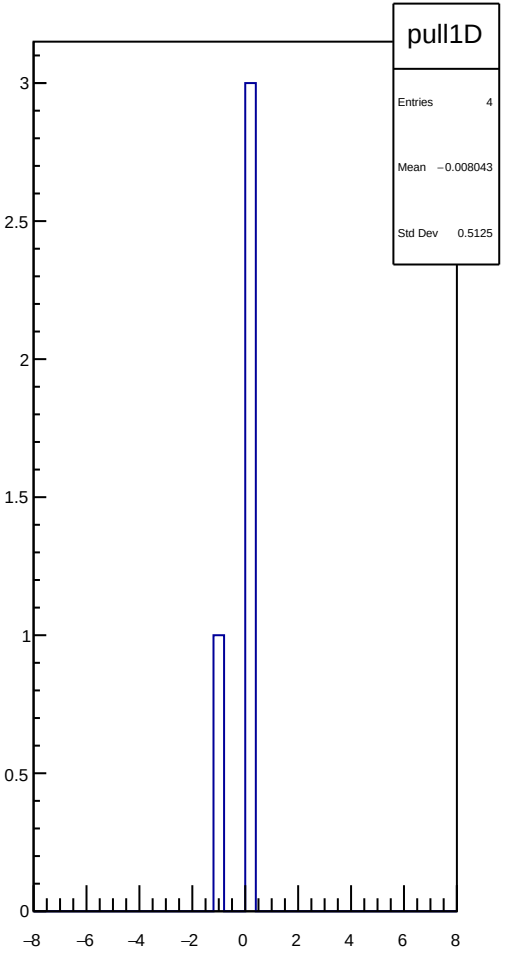

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 1.296 / 3
p0 −452.2 ± 44.68
−250
−300
−350
−400
−450
−500
−550
−600
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −132.6
Std Dev 134.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

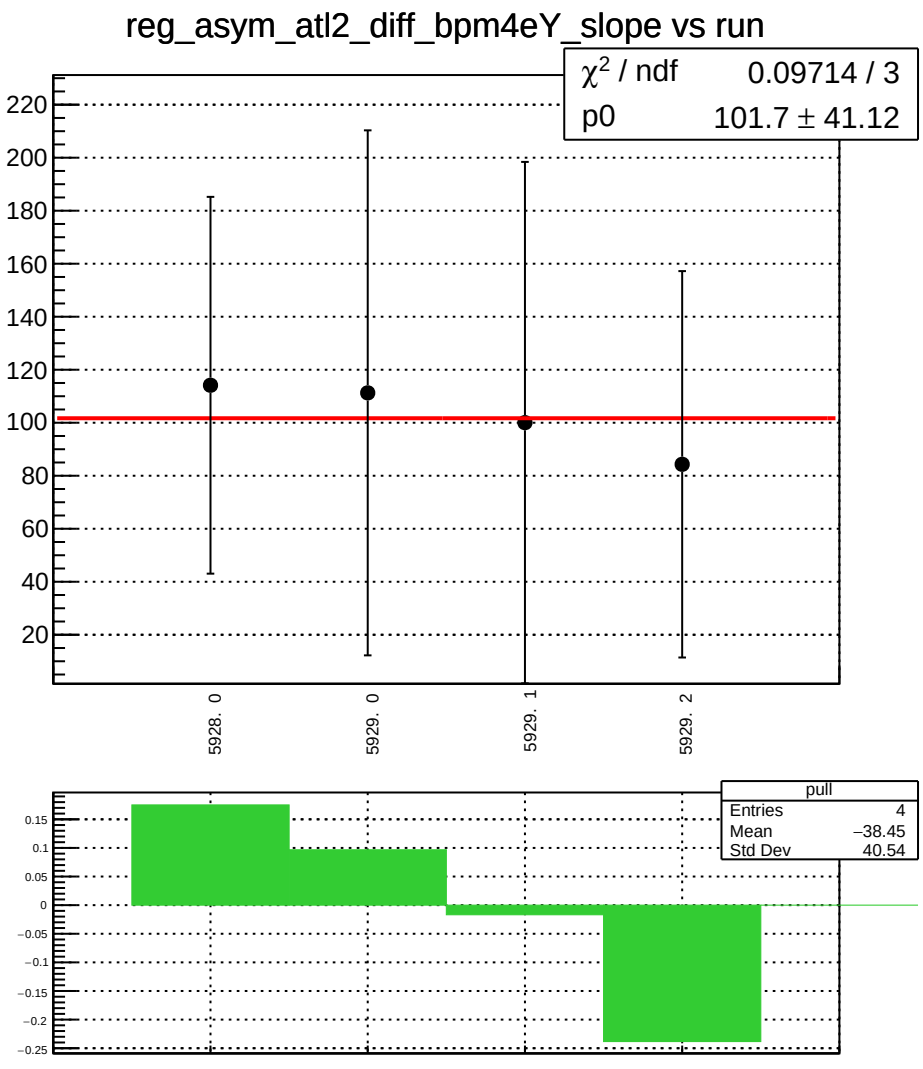

pull1D
Entries 4
Mean 0.003635
Std Dev 0.5691
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

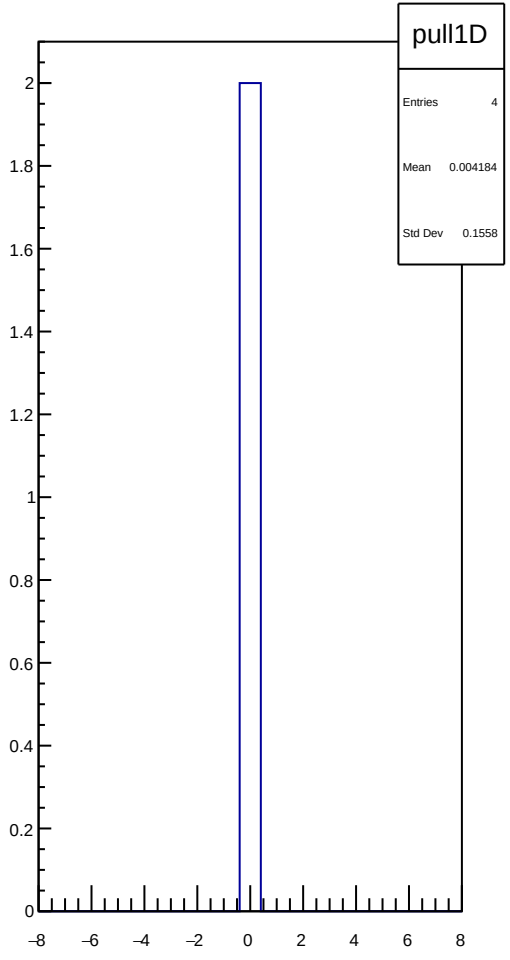

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 0.05851 / 3
p0 1.077 ± 36.93
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.98
Std Dev 16.18
0.2
0.15
0.1
0.05
0
−0.05
−0.1

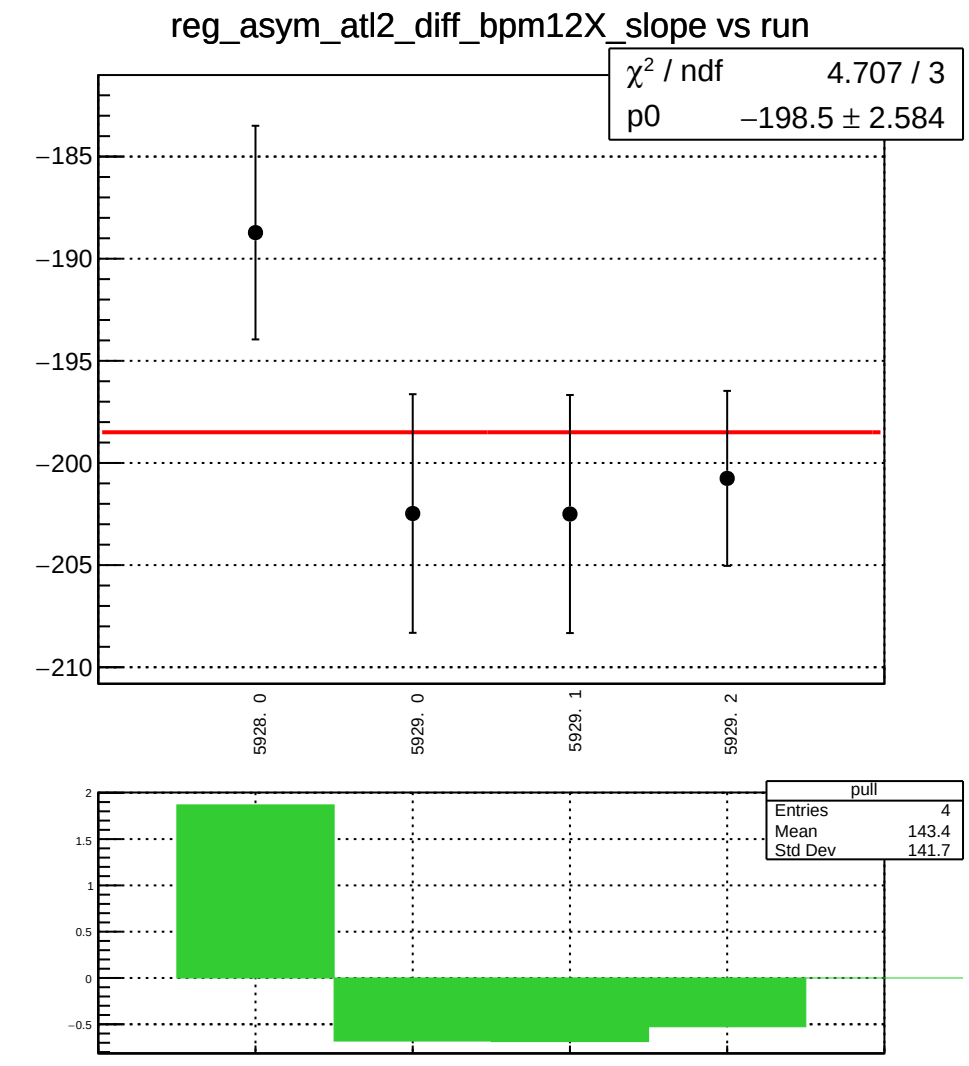

pull1D
Entries 4
Mean −0.007455
Std Dev 0.1207
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

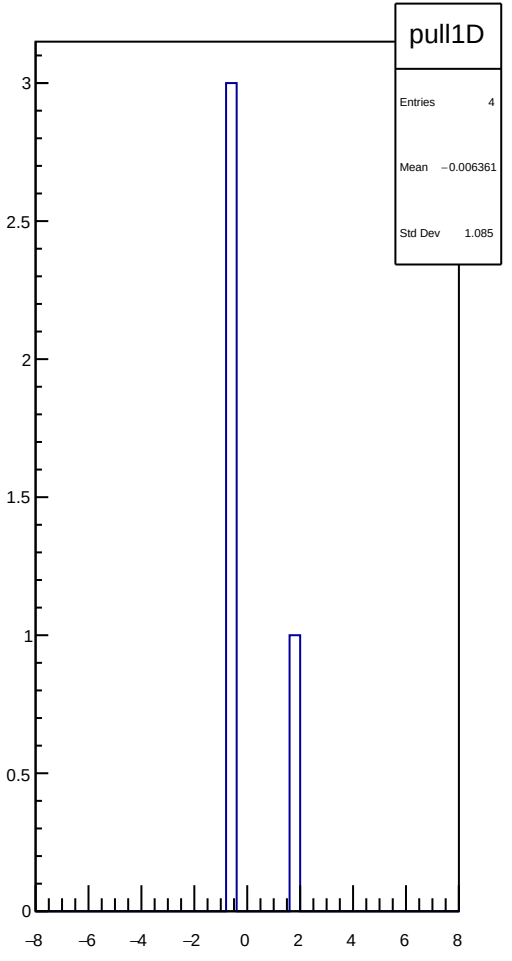

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 1.051 / 3
p0 575 ± 56.47
750
700
650
600
550
500
450
400
350
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −55.42
Std Dev 57.09
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

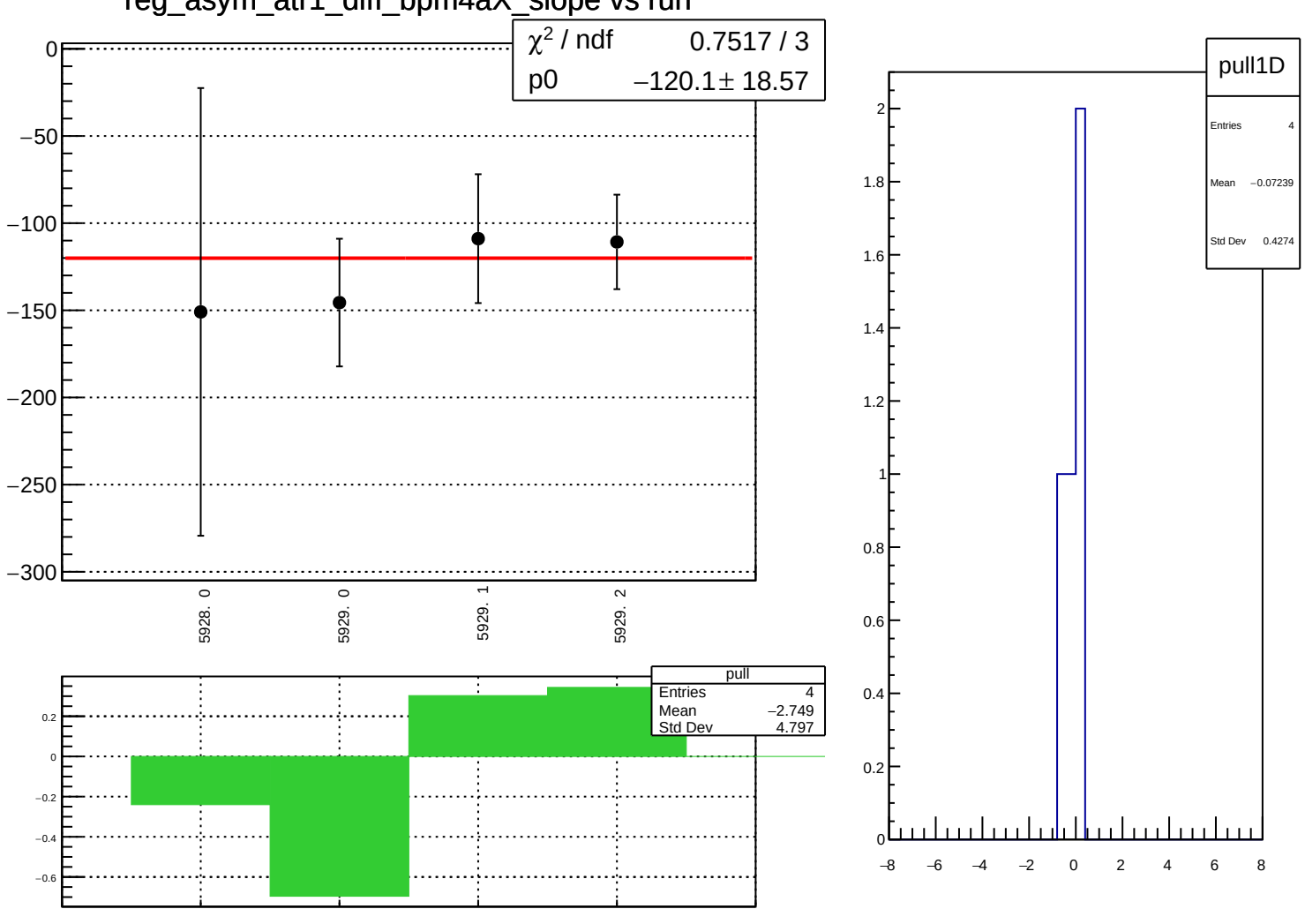

pull1D
Entries 4
Mean −0.008043
Std Dev 0.5125
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

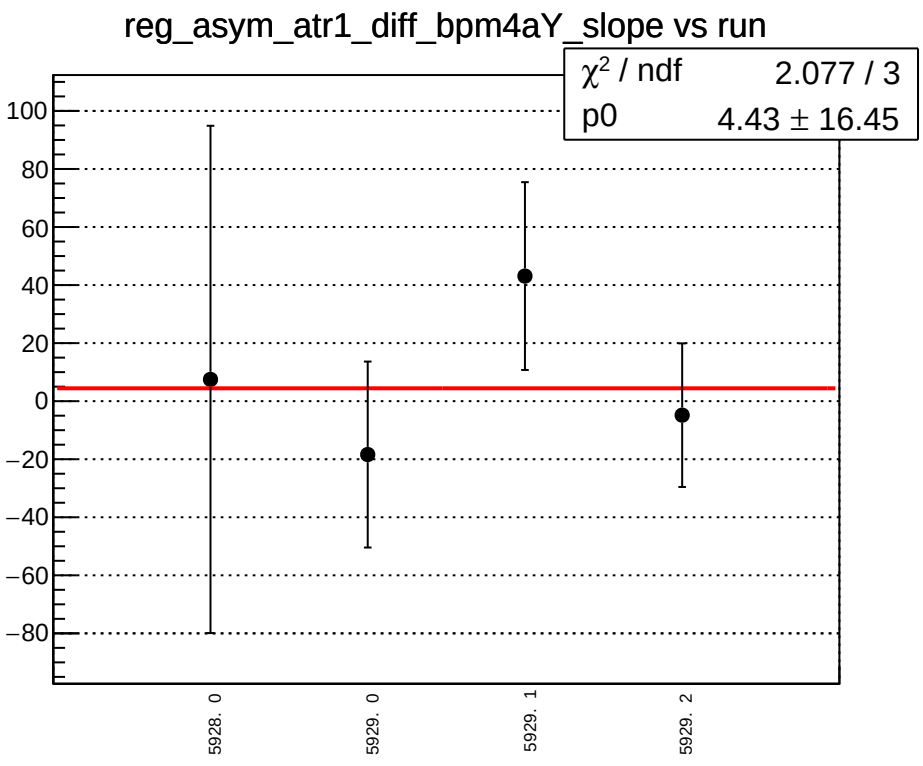

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 0.09714 / 3
p0 101.7 ± 41.12
220
200
180
160
140
120
100
80
60
40
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −38.45
Std Dev 40.54
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

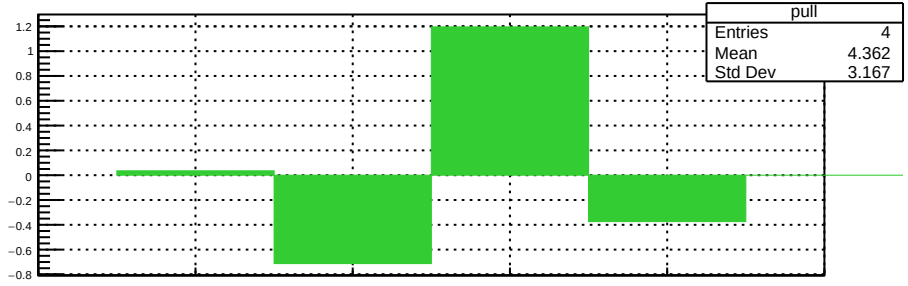

pull1D
Entries 4
Mean 0.004184
Std Dev 0.1558
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

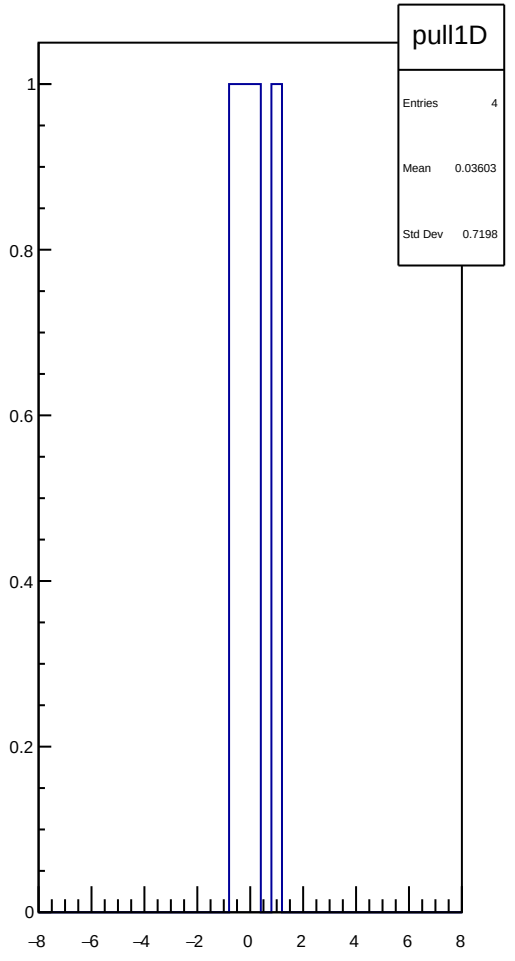

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 4.707 / 3
p0 −198.5 ± 2.584
−185
−190
−195
−200
−205
−210
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 143.4
Std Dev 141.7
2
1.5
1
0.5
0
−0.5

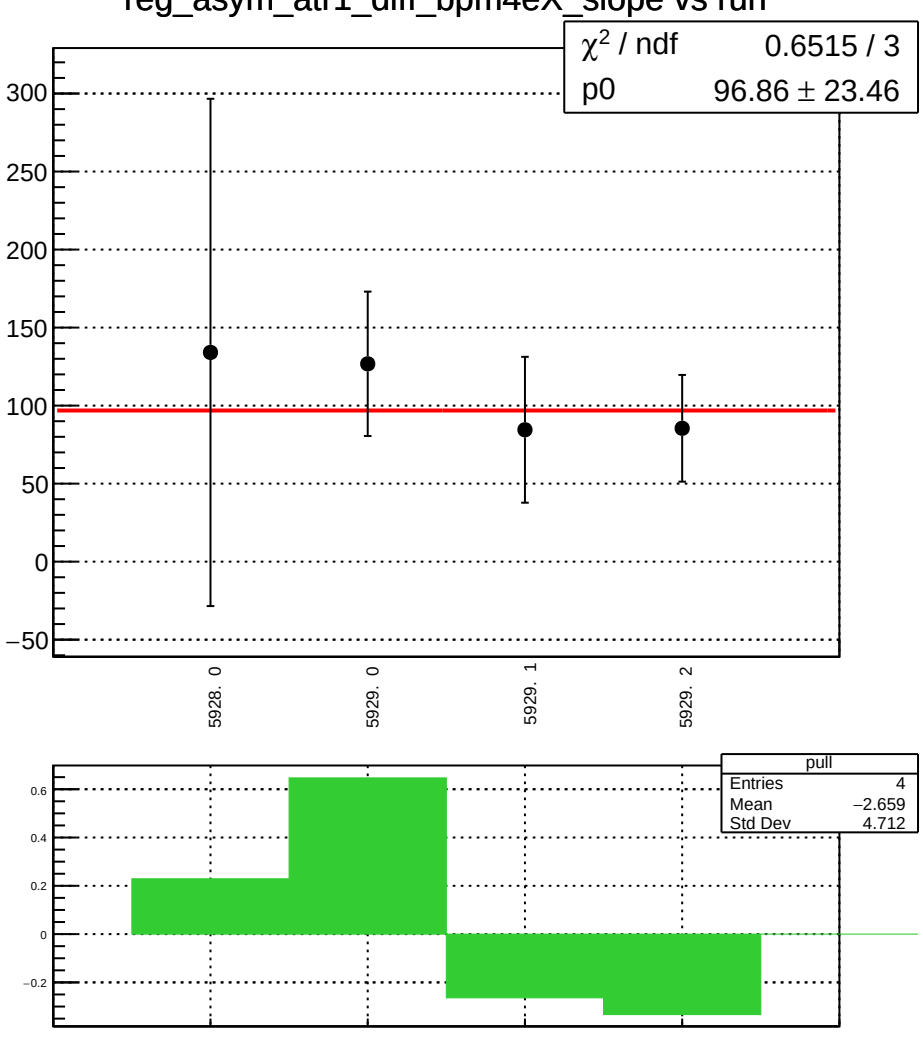

pull1D
Entries 4
Mean −0.006361
Std Dev 1.085
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

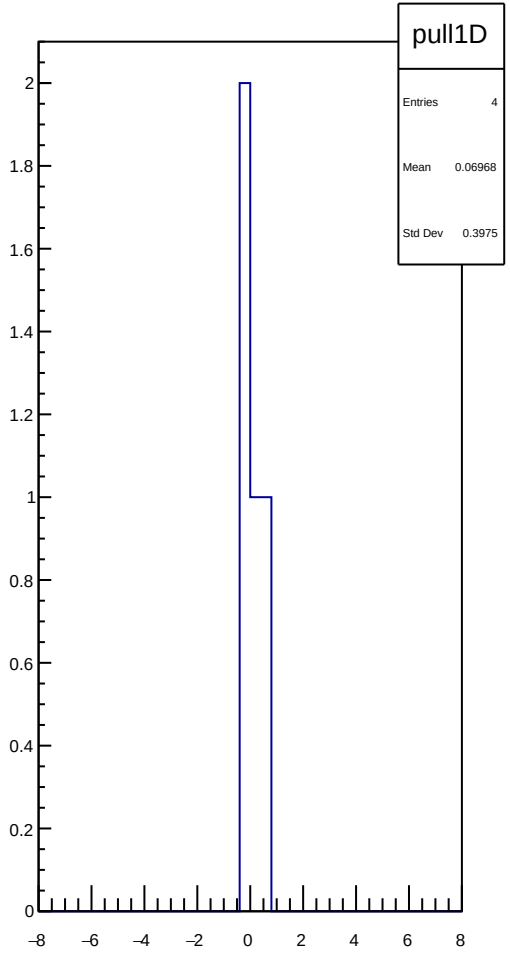

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 0.7517 / 3
p0 −120.1± 18.57
0
−50
−100
−150
−200
−250
−300
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.749
Std Dev 4.797
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.07239
Std Dev 0.4274
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

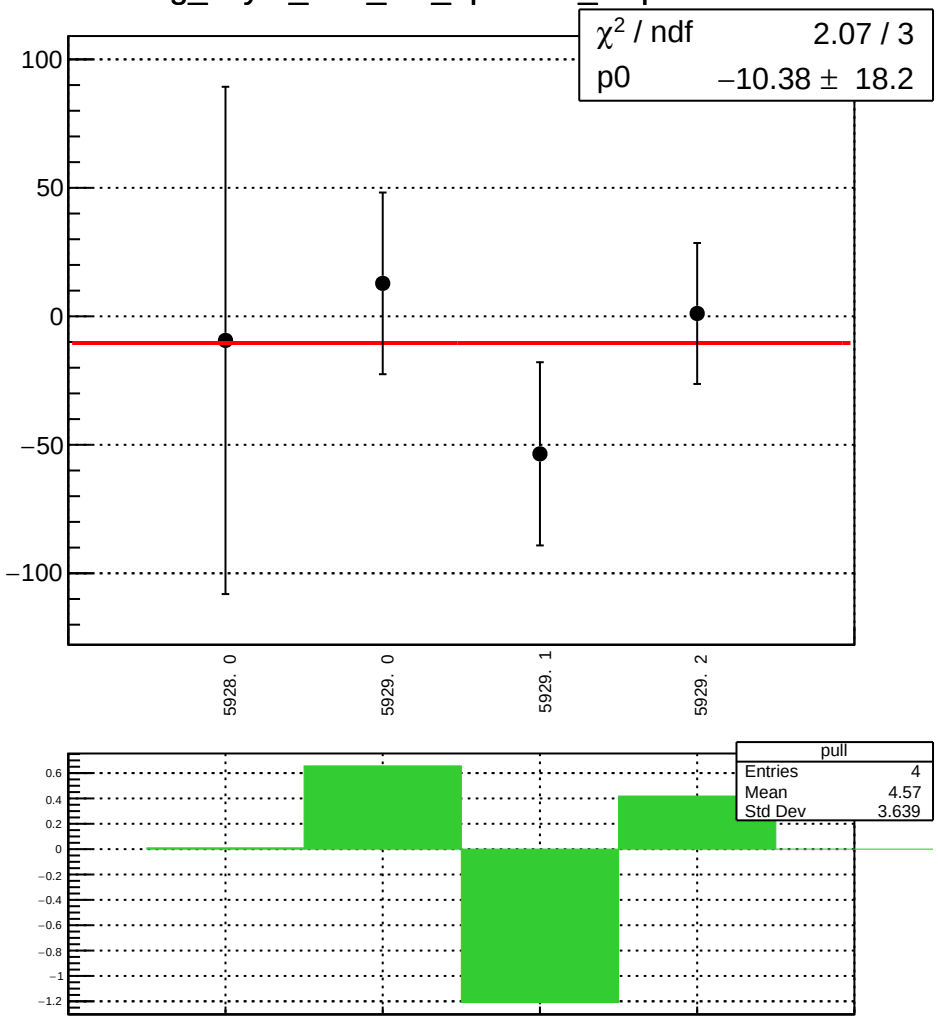

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 2.077 / 3
p0 4.43 ± 16.45
100
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2

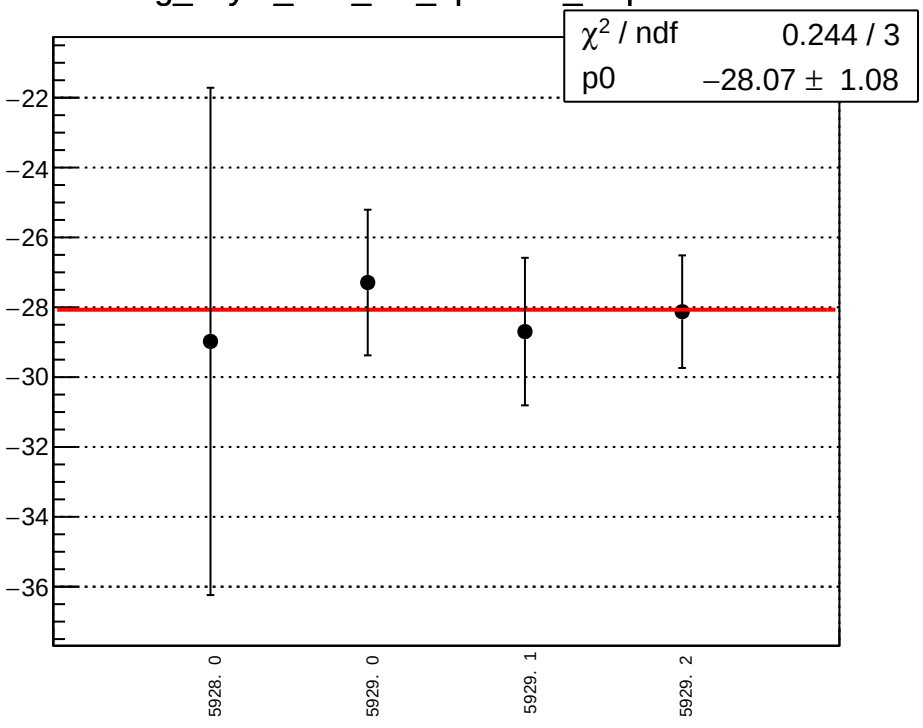

pull
Entries 4
Mean 4.362
Std Dev 3.167
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

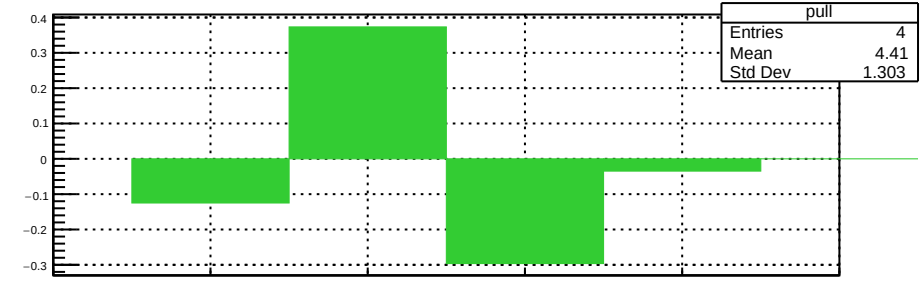

pull1D
Entries 4
Mean 0.03603
Std Dev 0.7198
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

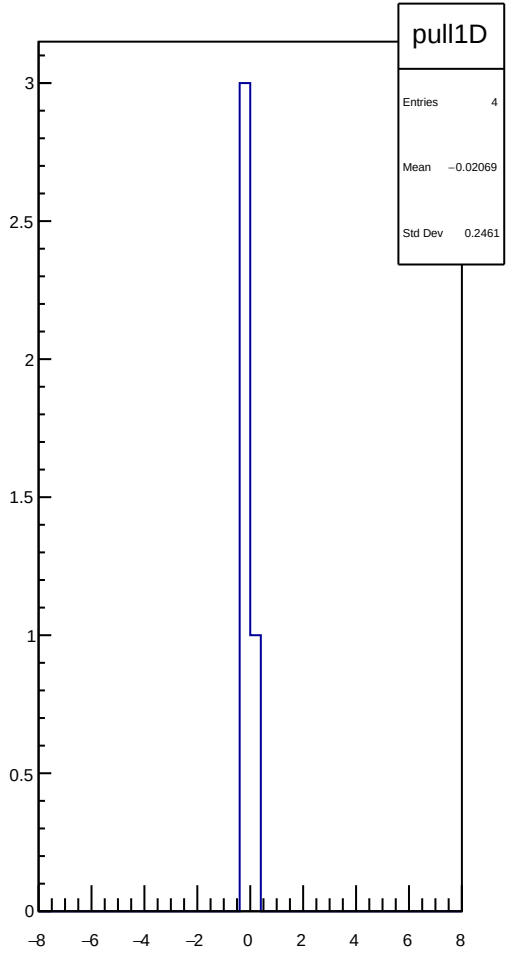

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 0.6515 / 3
p0 96.86 ± 23.46
300
250
200
150
100
50
0
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.659
Std Dev 4.712
0.6
0.4
0.2
0
−0.2

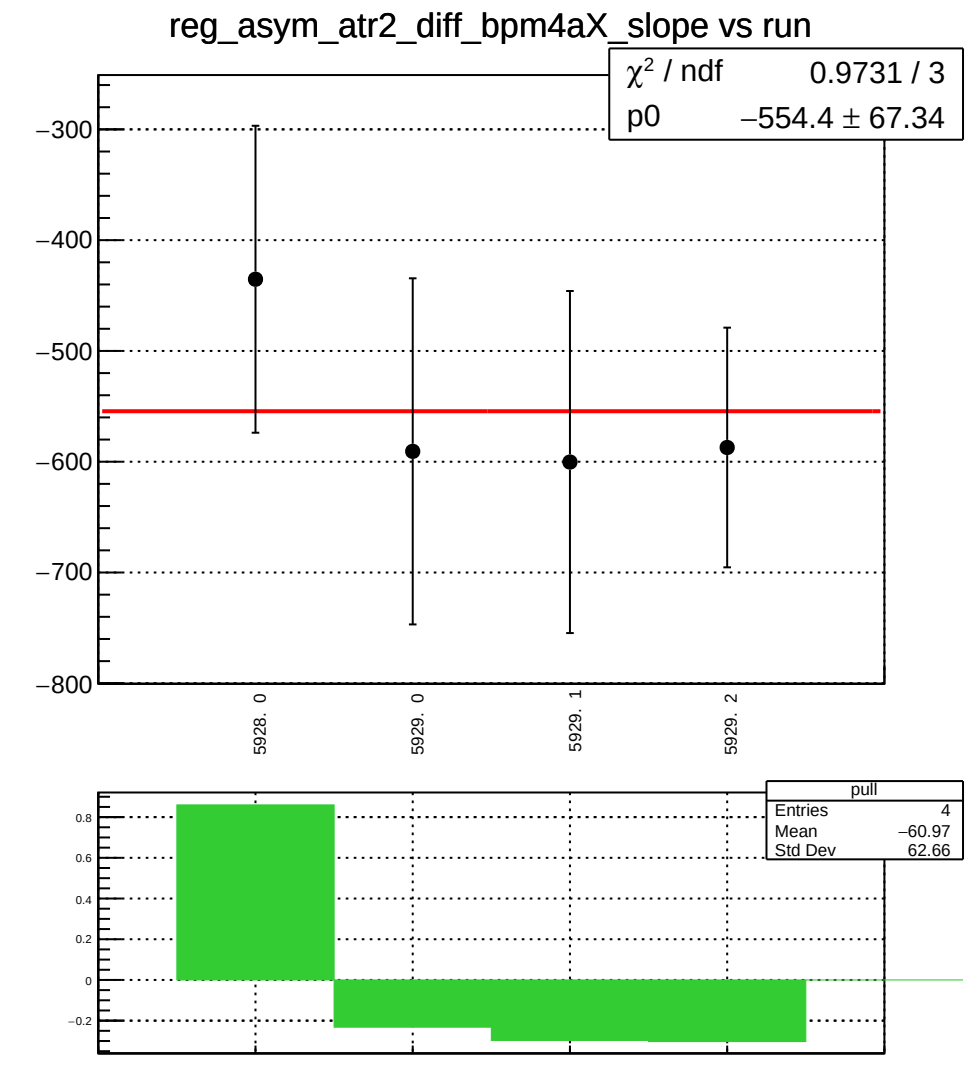

pull1D
Entries 4
Mean 0.06968
Std Dev 0.3975
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

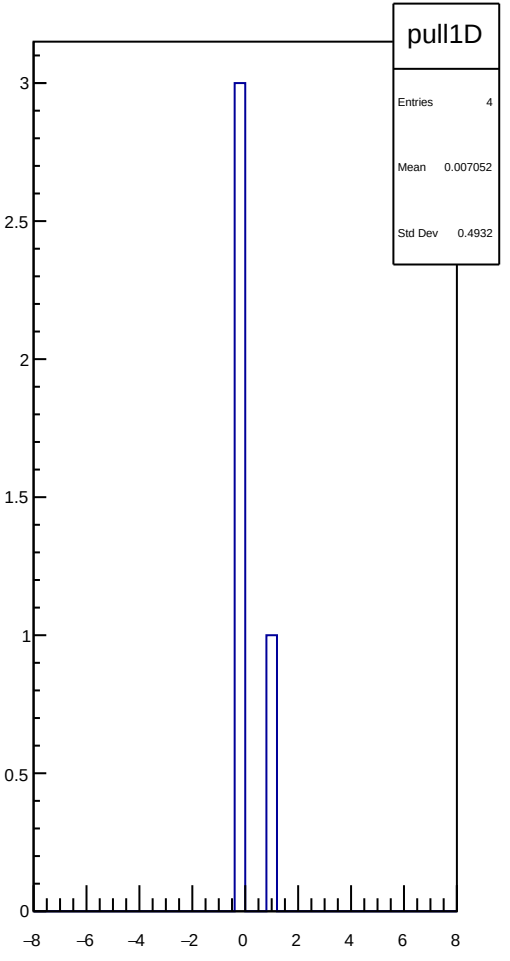

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 2.07 / 3
p0 −10.38 ± 18.2
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 4.57
Std Dev 3.639
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.03115
Std Dev 0.7188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

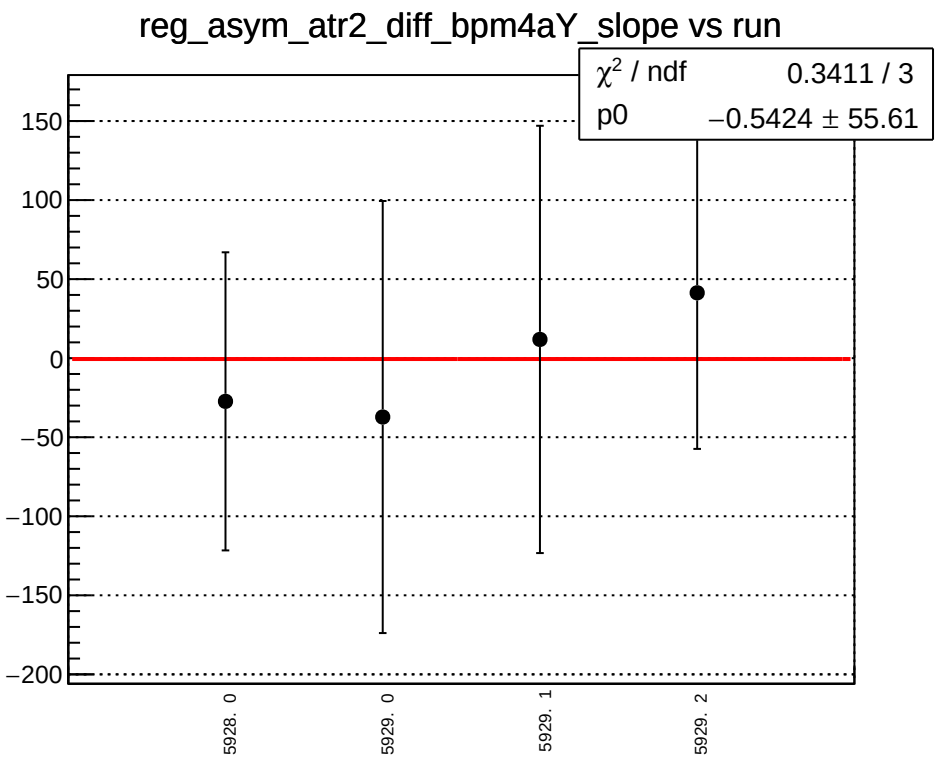

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 0.244 / 3
p0 −28.07 ± 1.08
−22
−24
−26
−28
−30
−32
−34
−36
5928. 0
5929. 0
5929. 1
5929. 2

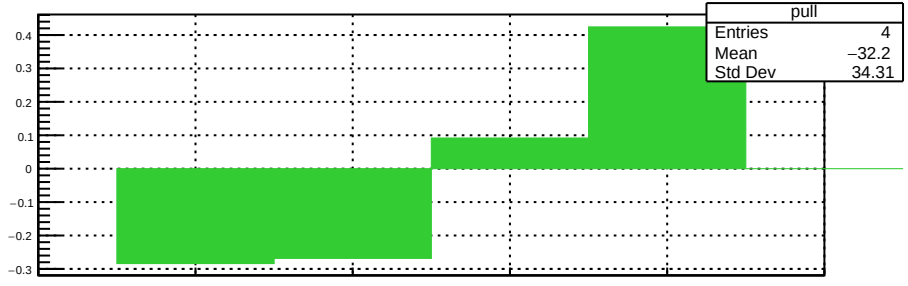

pull
Entries 4
Mean 4.41
Std Dev 1.303
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

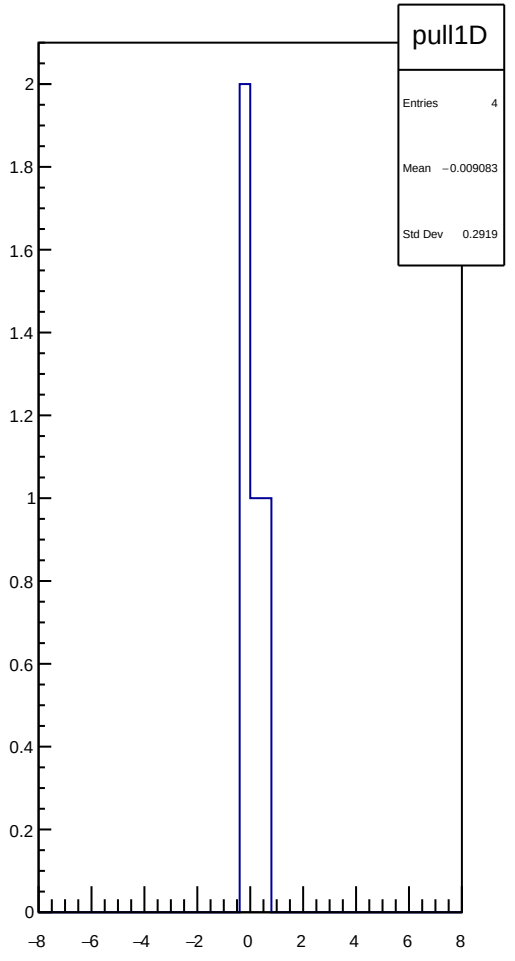

pull1D
Entries 4
Mean −0.02069
Std Dev 0.2461
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

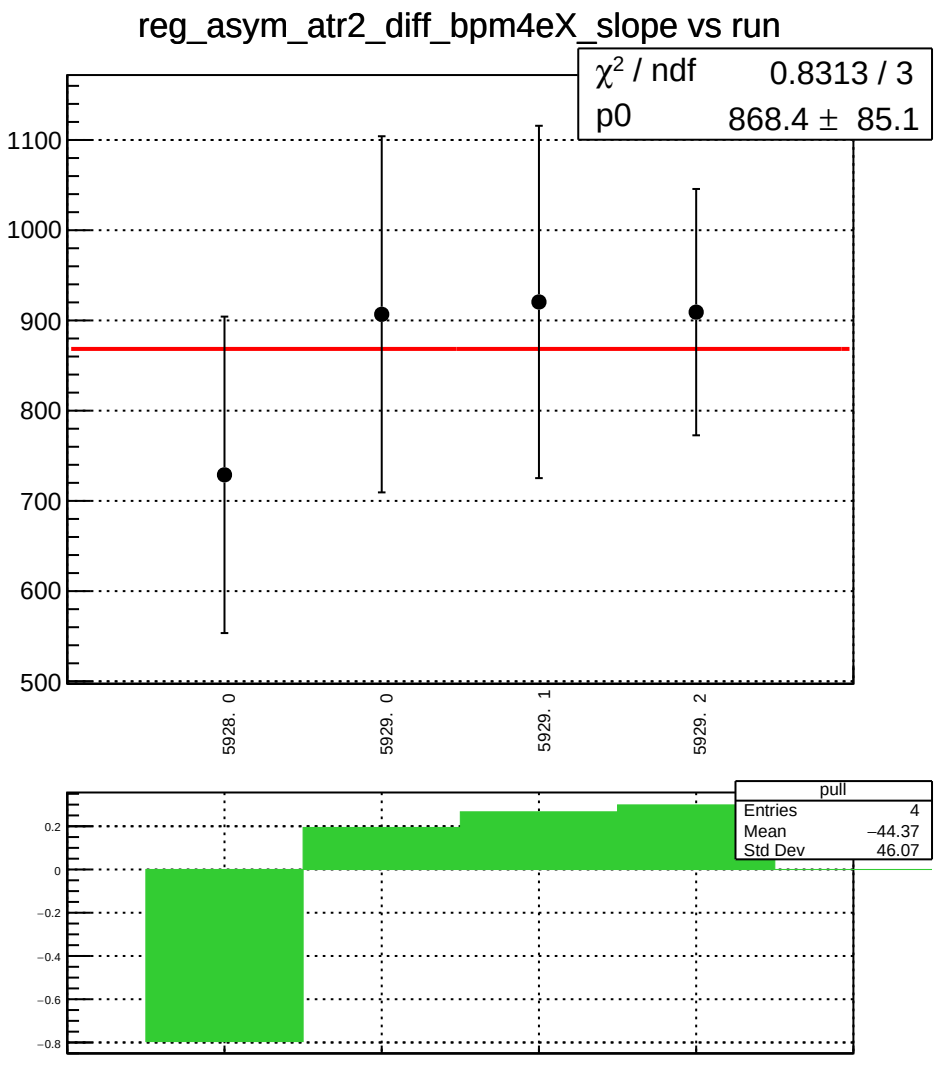

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 0.9731 / 3
p0 −554.4 ± 67.34
−300
−400
−500
−600
−700
−800
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −60.97
Std Dev 62.66
0.8
0.6
0.4
0.2
0
−0.2

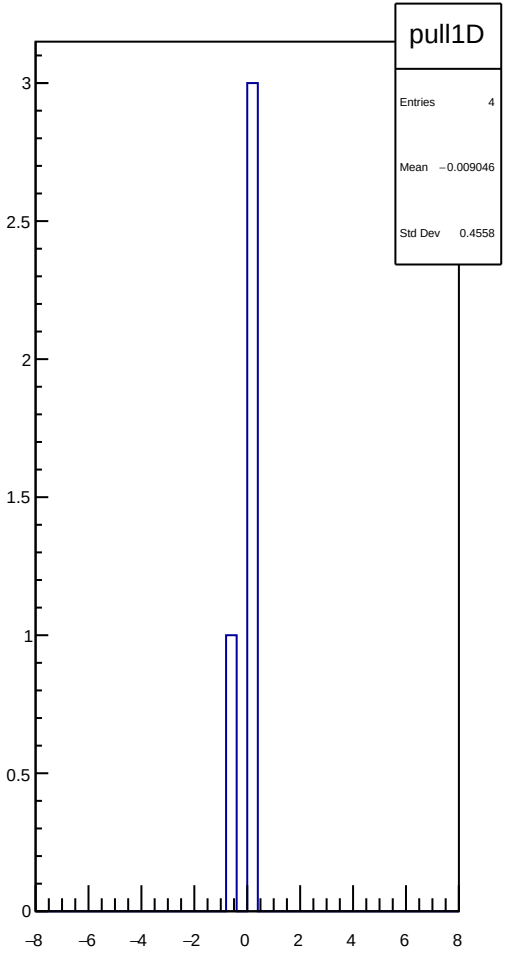

pull1D
Entries 4
Mean 0.007052
Std Dev 0.4932
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

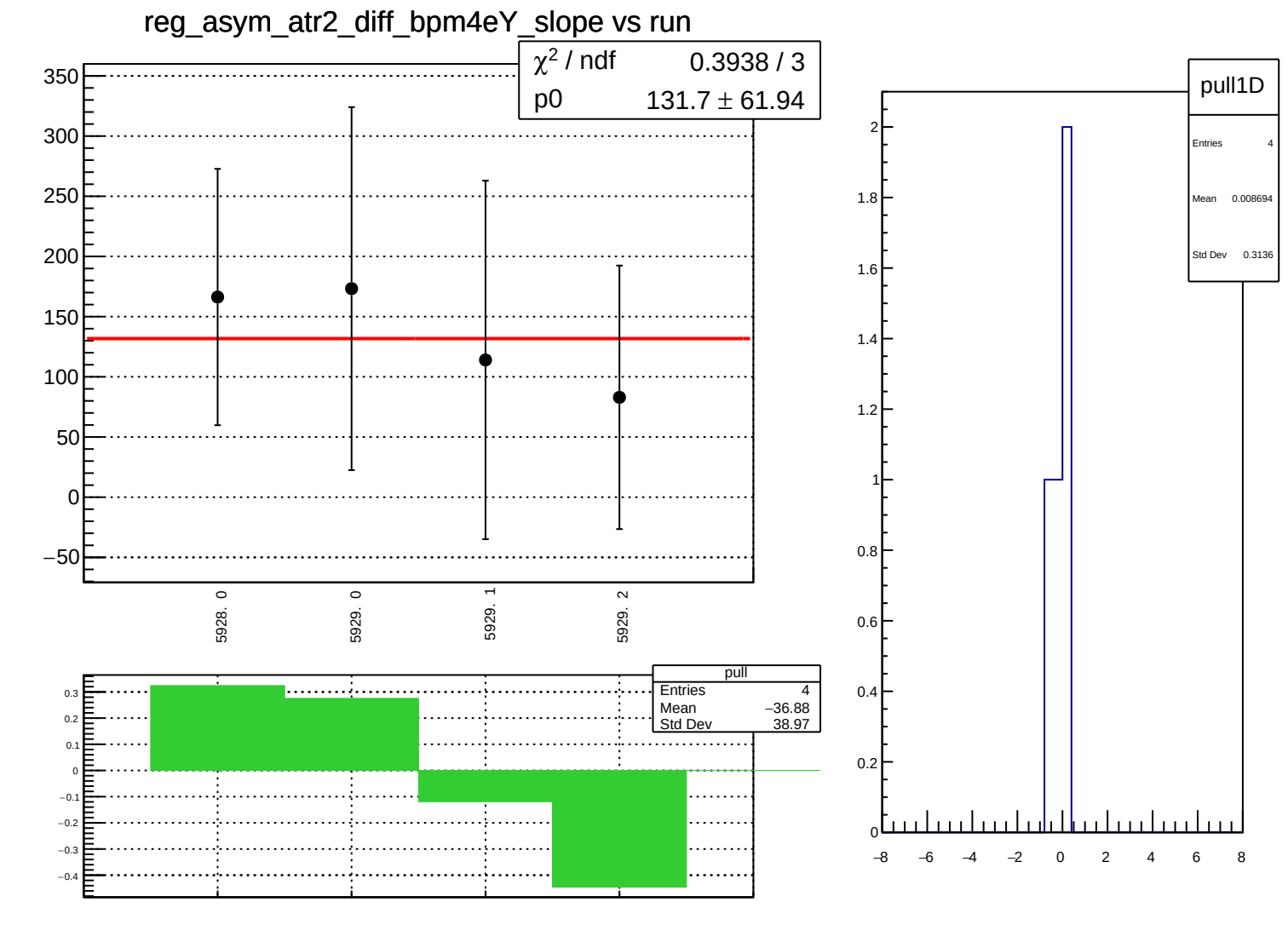

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 0.3411 / 3
p0 −0.5424 ± 55.61
150
100
50
0
−50
−100
−150
−200
5928. 0
5929. 0
5929. 1
5929. 2

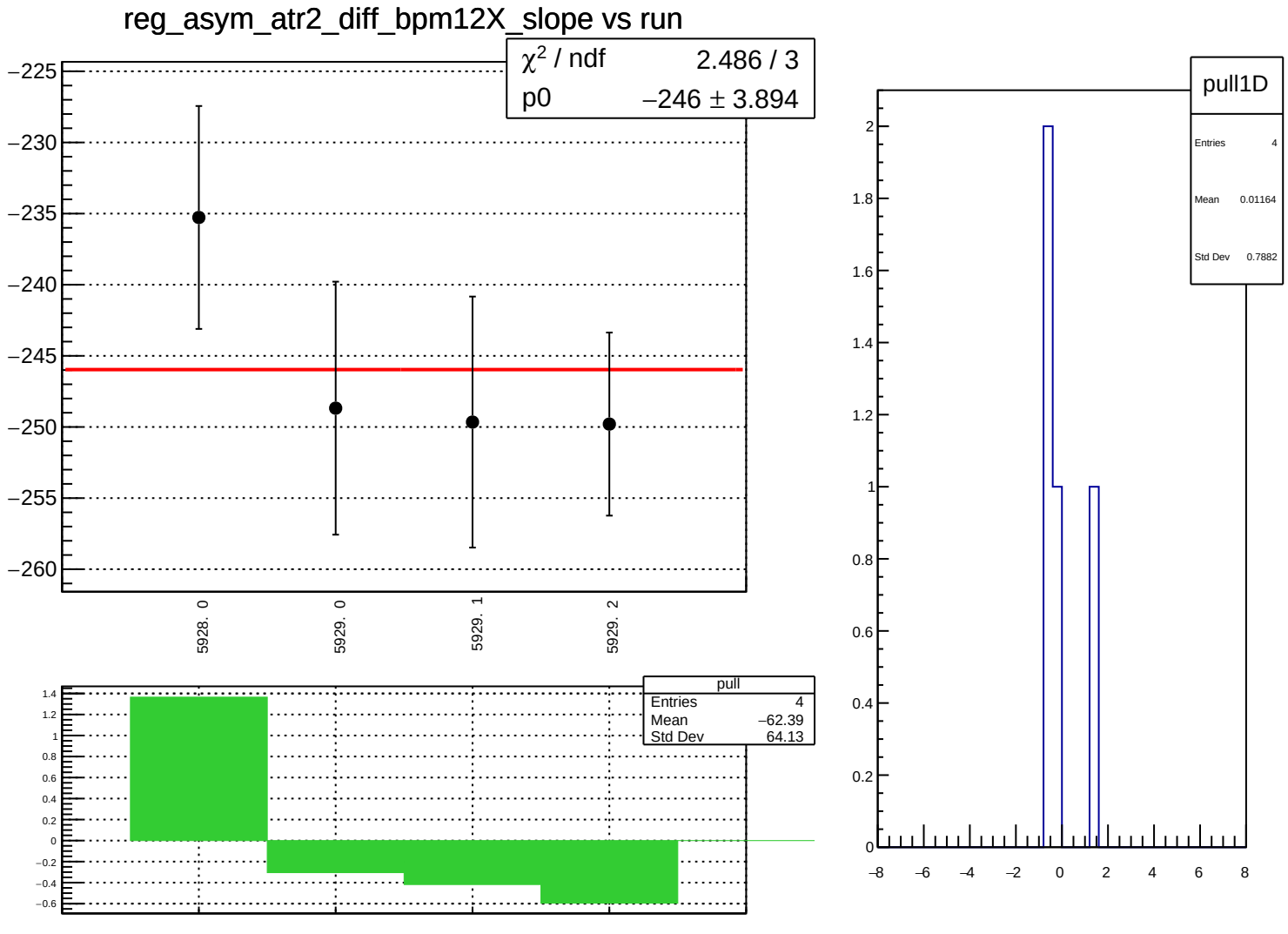

pull
Entries 4
Mean −32.2
Std Dev 34.31
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

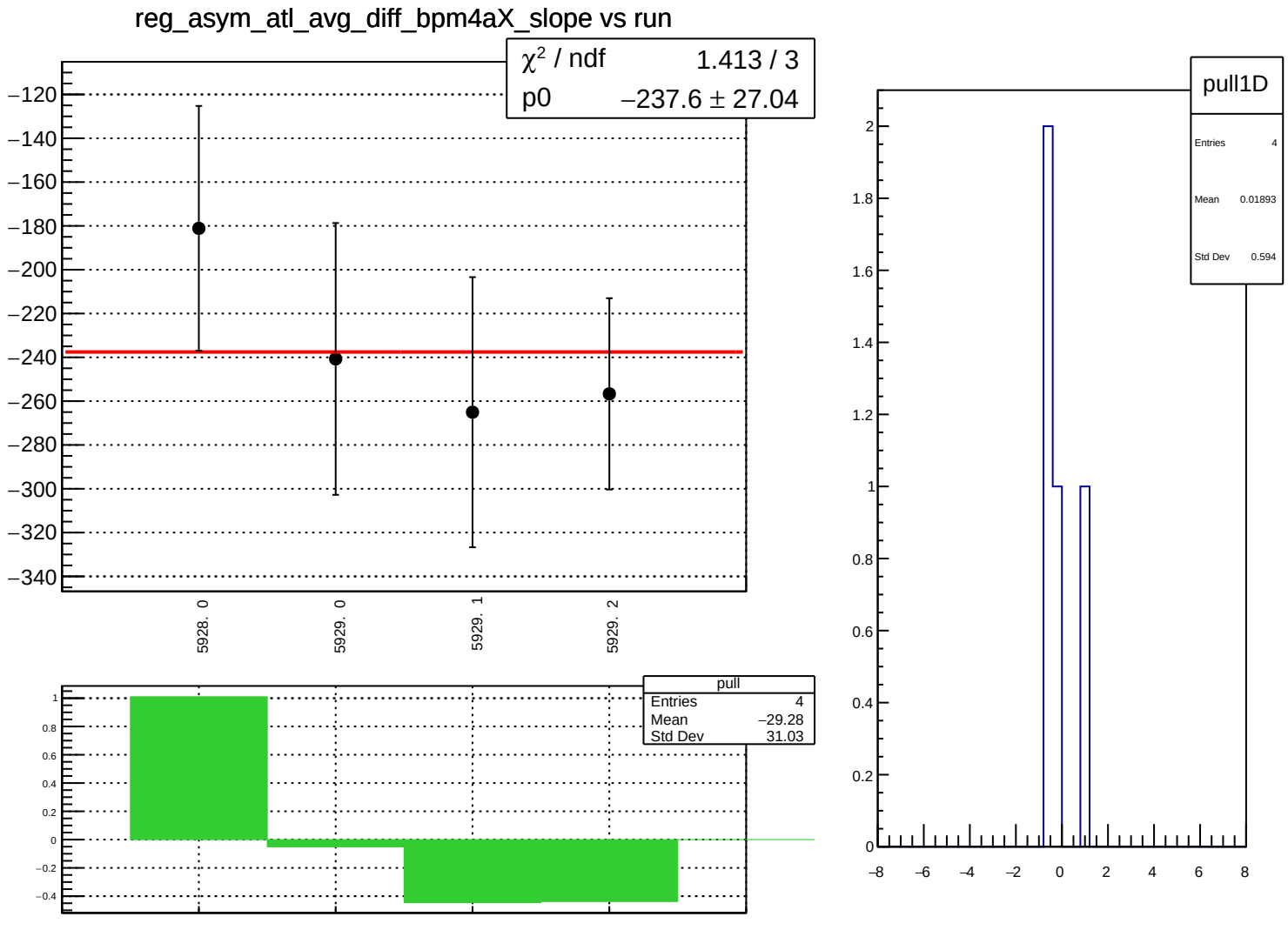

pull1D
Entries 4
Mean −0.009083
Std Dev 0.2919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

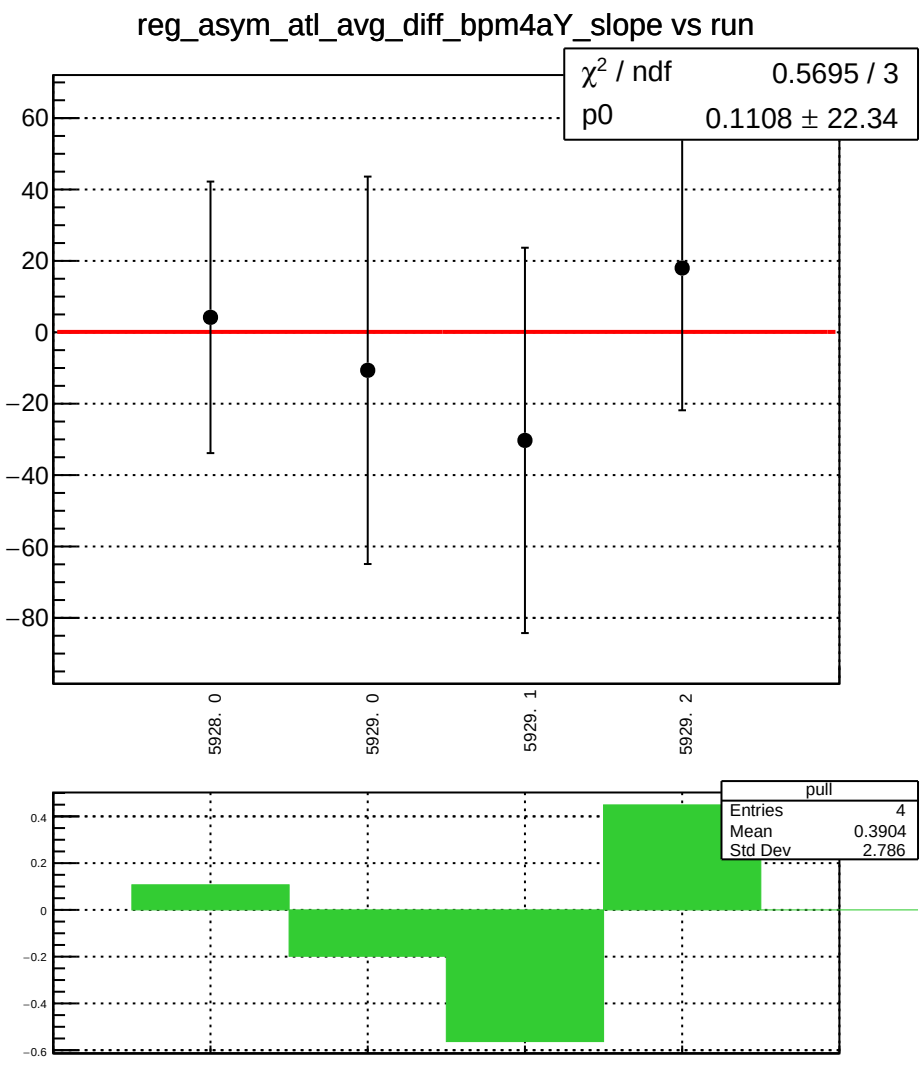

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 0.8313 / 3
p0 868.4 ± 85.1
1100
1000
900
800
700
600
500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −44.37
Std Dev 46.07
0.2
0
−0.2
−0.4
−0.6
−0.8

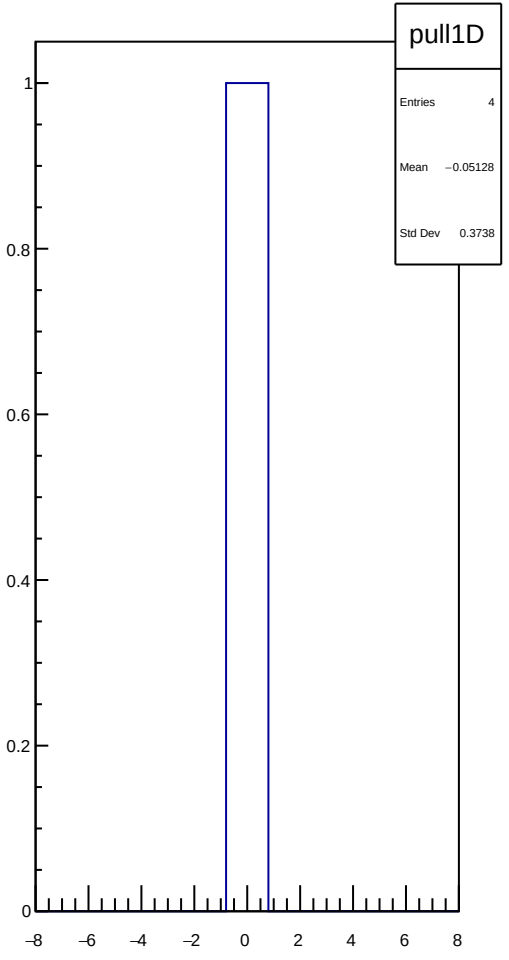

pull1D
Entries 4
Mean −0.009046
Std Dev 0.4558
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

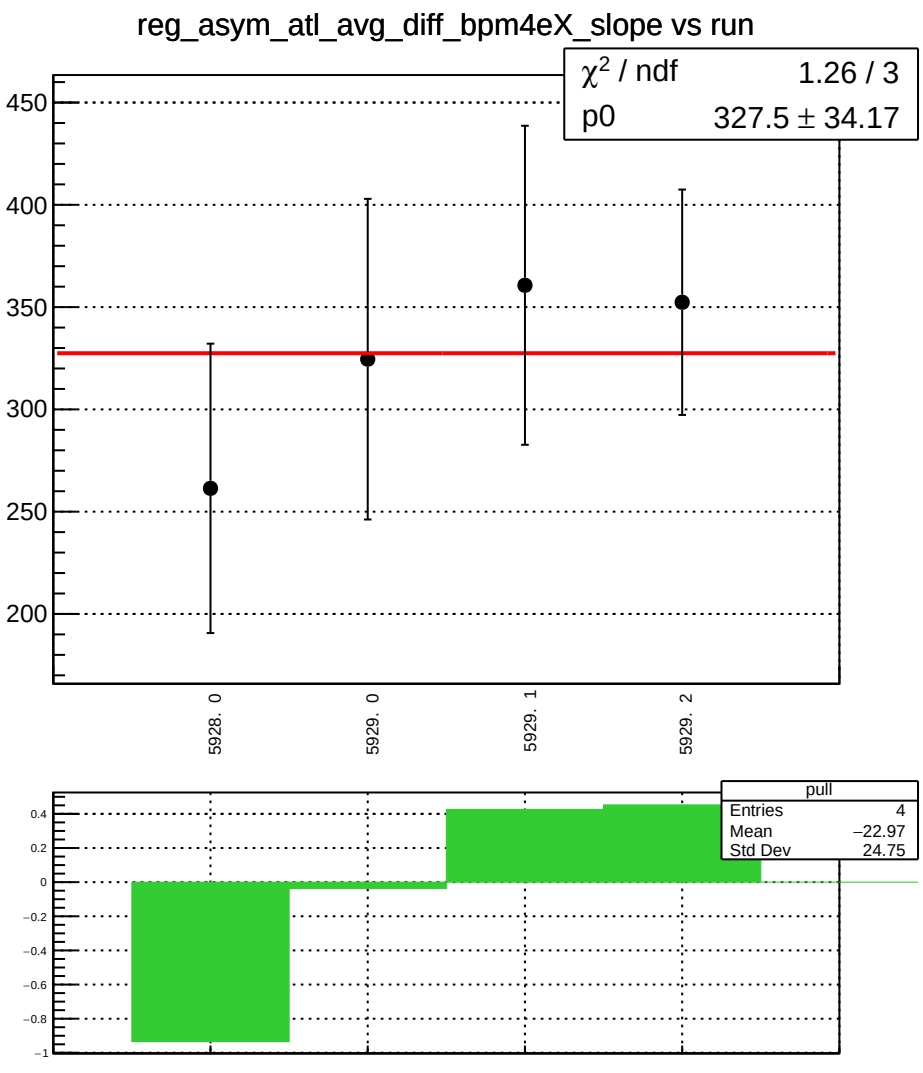

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 0.3938 / 3
p0 131.7 ± 61.94
350
300
250
200
150
100
50
0
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −36.88
Std Dev 38.97
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 4
Mean 0.008694
Std Dev 0.3136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

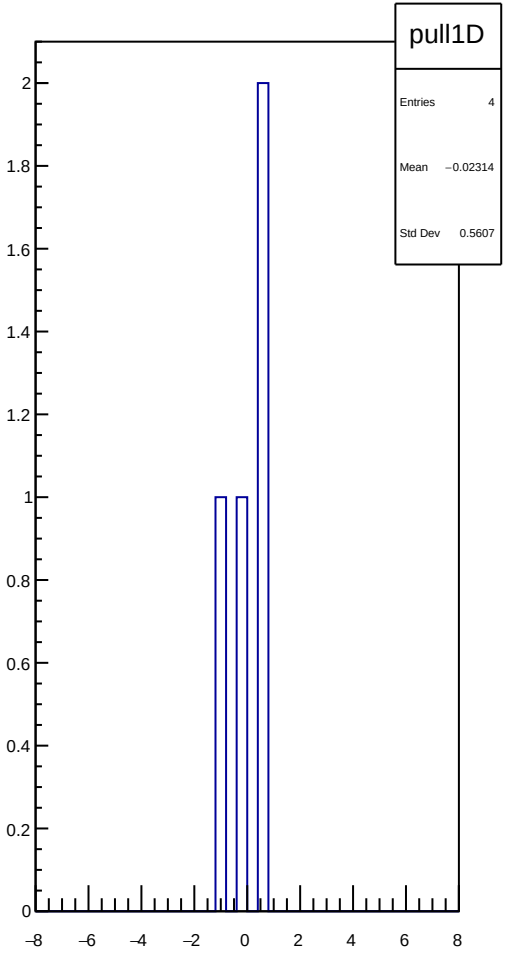

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 2.486 / 3
p0 −246 ± 3.894
−225
−230
−235
−240
−245
−250
−255
−260
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −62.39
Std Dev 64.13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.01164
Std Dev 0.7882
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

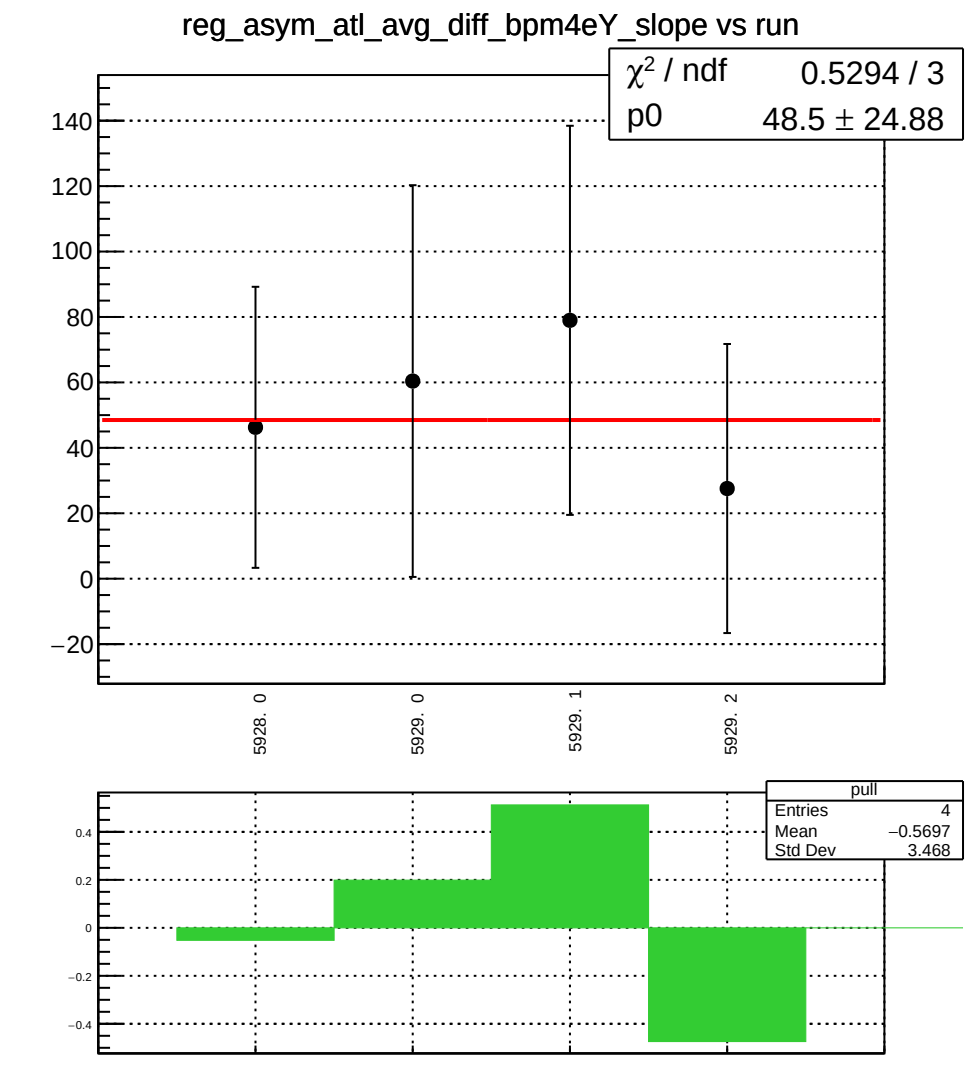

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.413 / 3
p0 −237.6 ± 27.04
−120
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
−340
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −29.28
Std Dev 31.03
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.01893
Std Dev 0.594
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

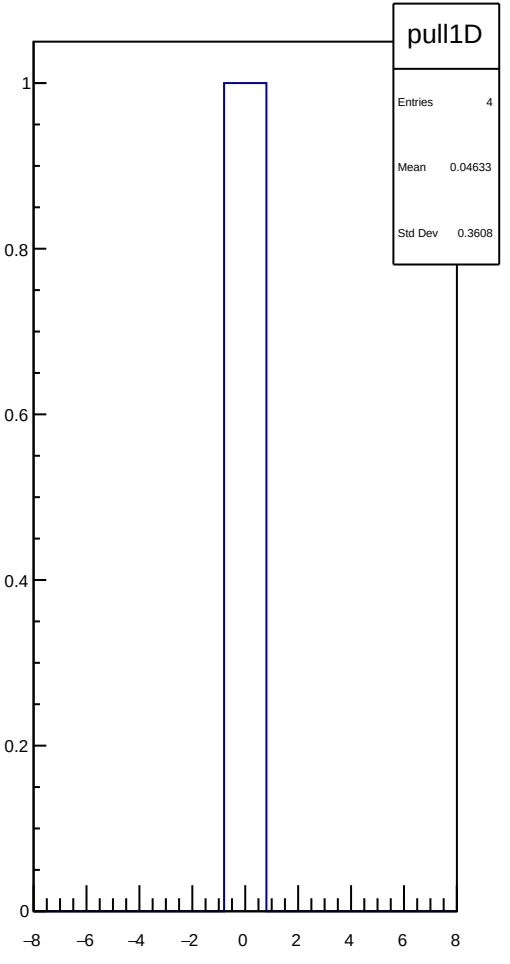

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5695 / 3
p0 0.1108 ± 22.34
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.3904
Std Dev 2.786
0.4
0.2
0
−0.2
−0.4
−0.6

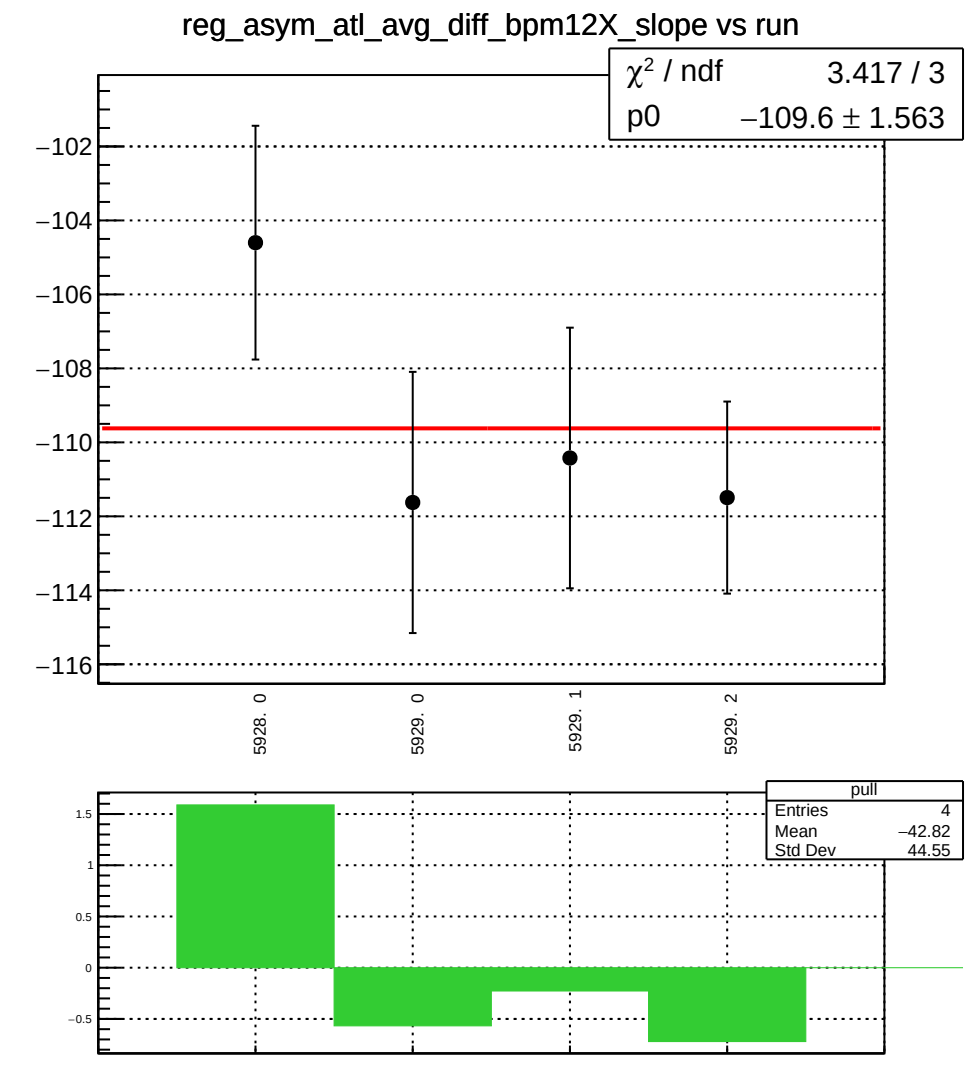

pull1D
Entries 4
Mean −0.05128
Std Dev 0.3738
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

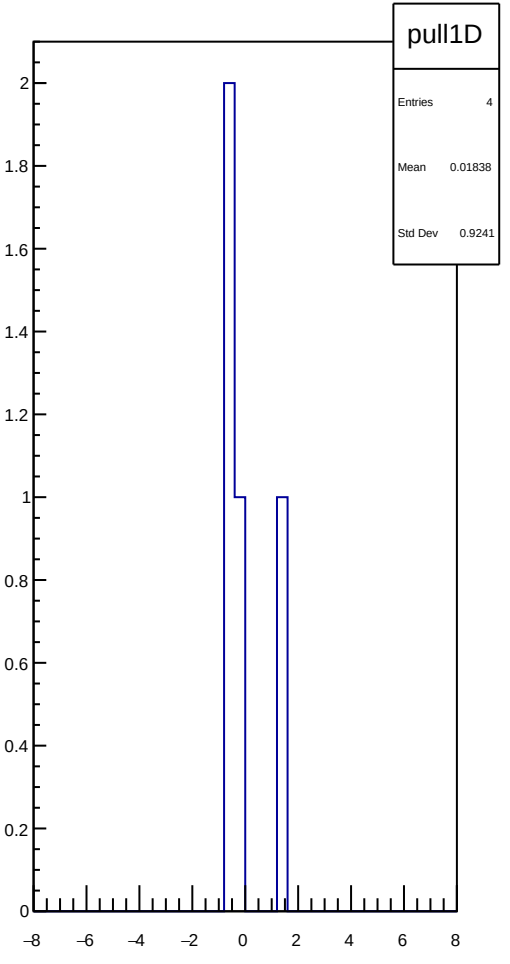

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.26 / 3
p0 327.5 ± 34.17
450
400
350
300
250
200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −22.97
Std Dev 24.75
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

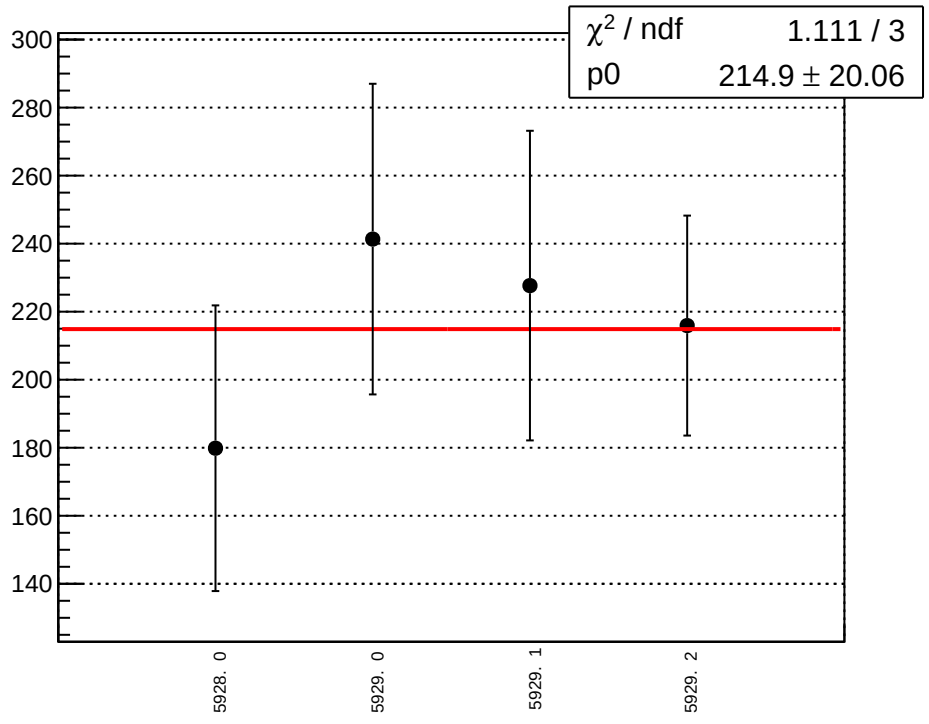

pull1D
Entries 4
Mean −0.02314
Std Dev 0.5607
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

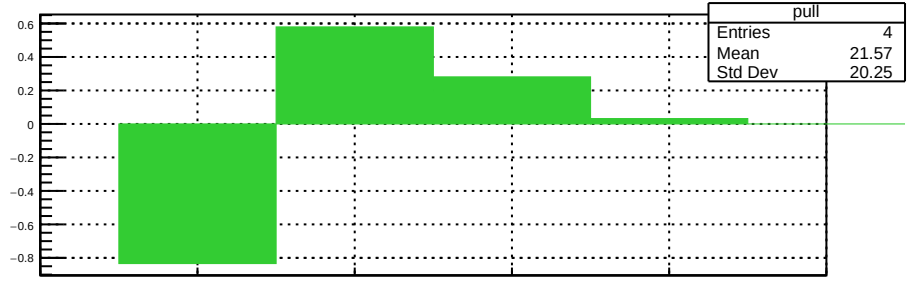

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5294 / 3
p0 48.5 ± 24.88
140
120
100
80
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.5697
Std Dev 3.468
0.4
0.2
0
−0.2
−0.4

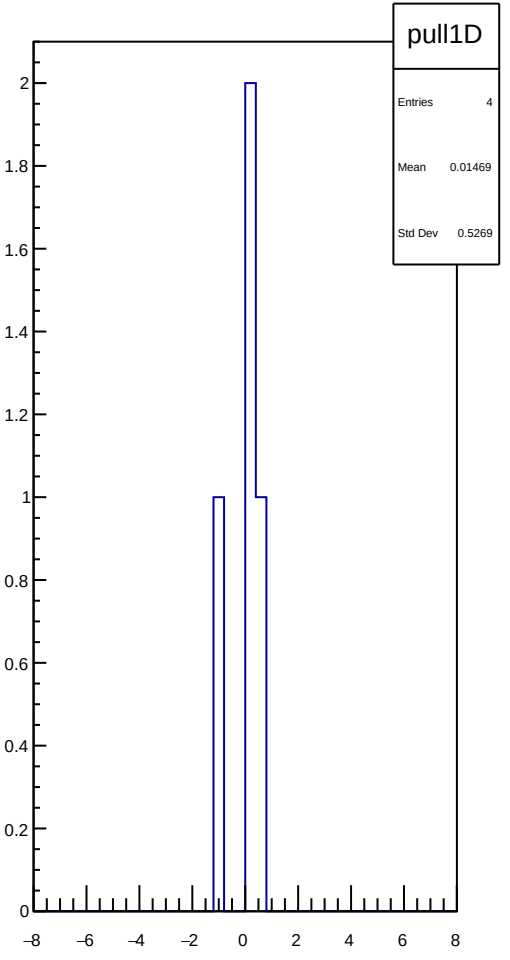

pull1D
Entries 4
Mean 0.04633
Std Dev 0.3608
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

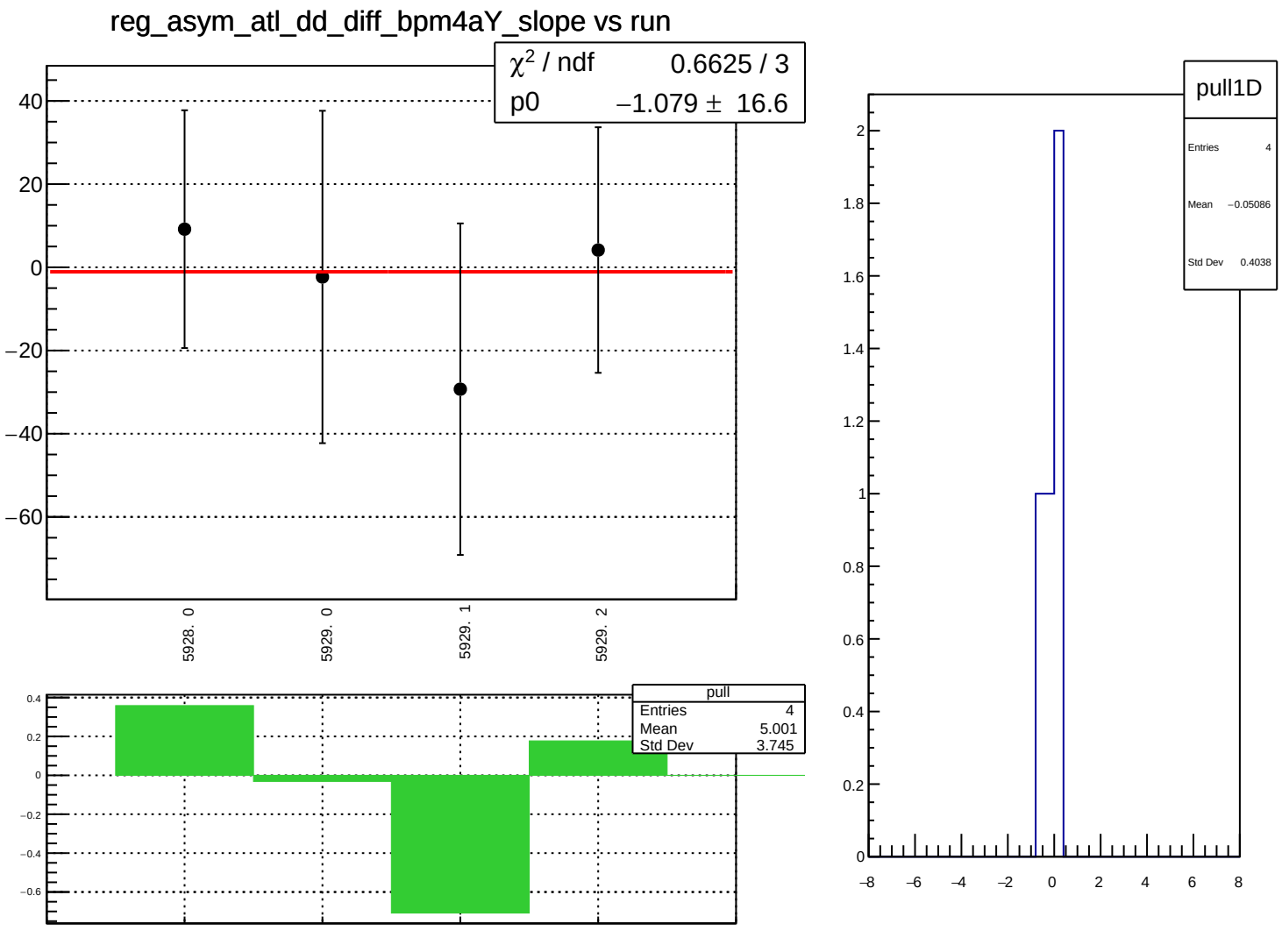

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 3.417 / 3
p0 −109.6 ± 1.563
−102
−104
−106
−108
−110
−112
−114
−116
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −42.82
Std Dev 44.55
1.5
1
0.5
0
−0.5

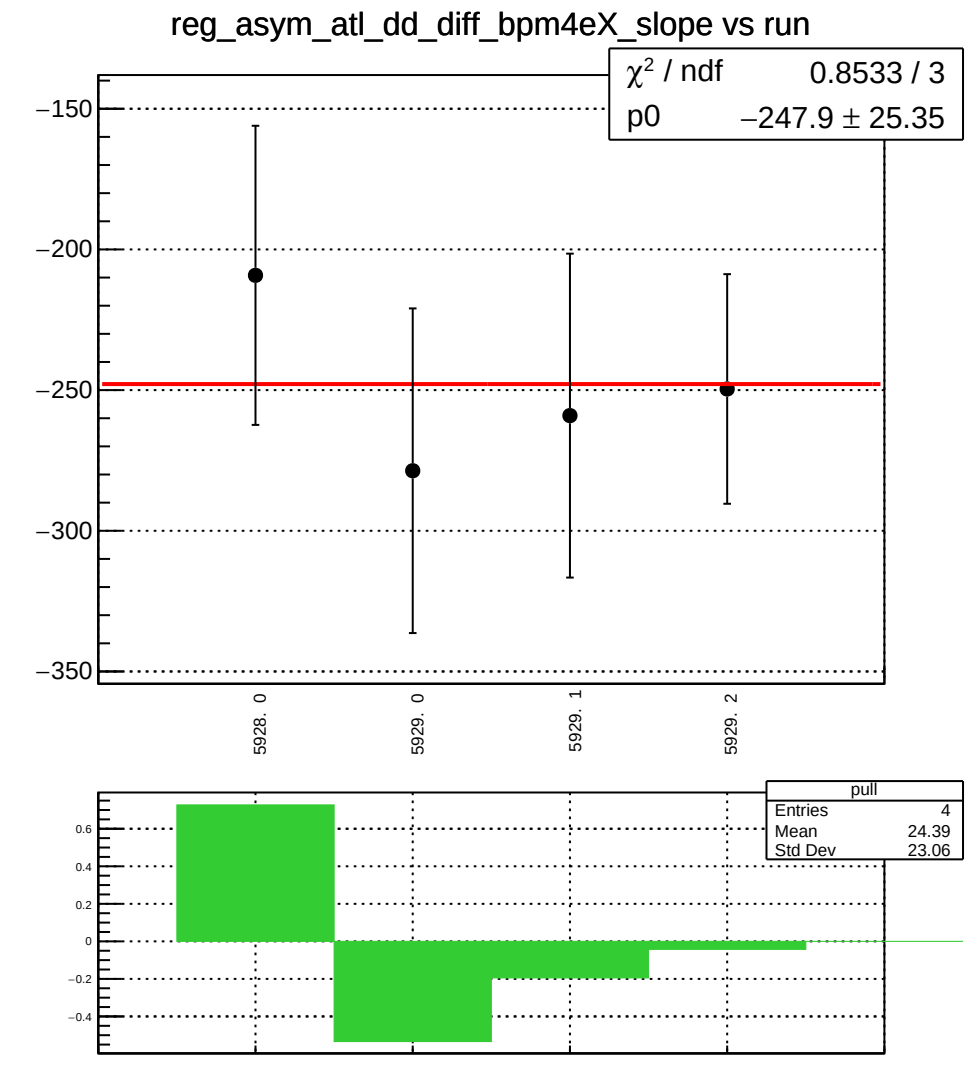

pull1D
Entries 4
Mean 0.01838
Std Dev 0.9241
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

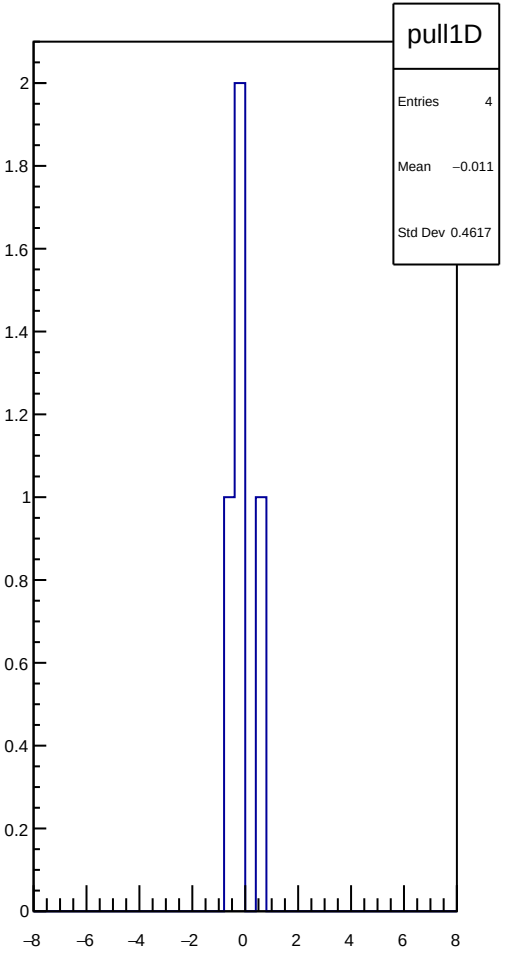

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.111 / 3
p0 214.9 ± 20.06
300
280
260
240
220
200
180
160
140
5928. 0
5929. 0
5929. 1
5929. 2

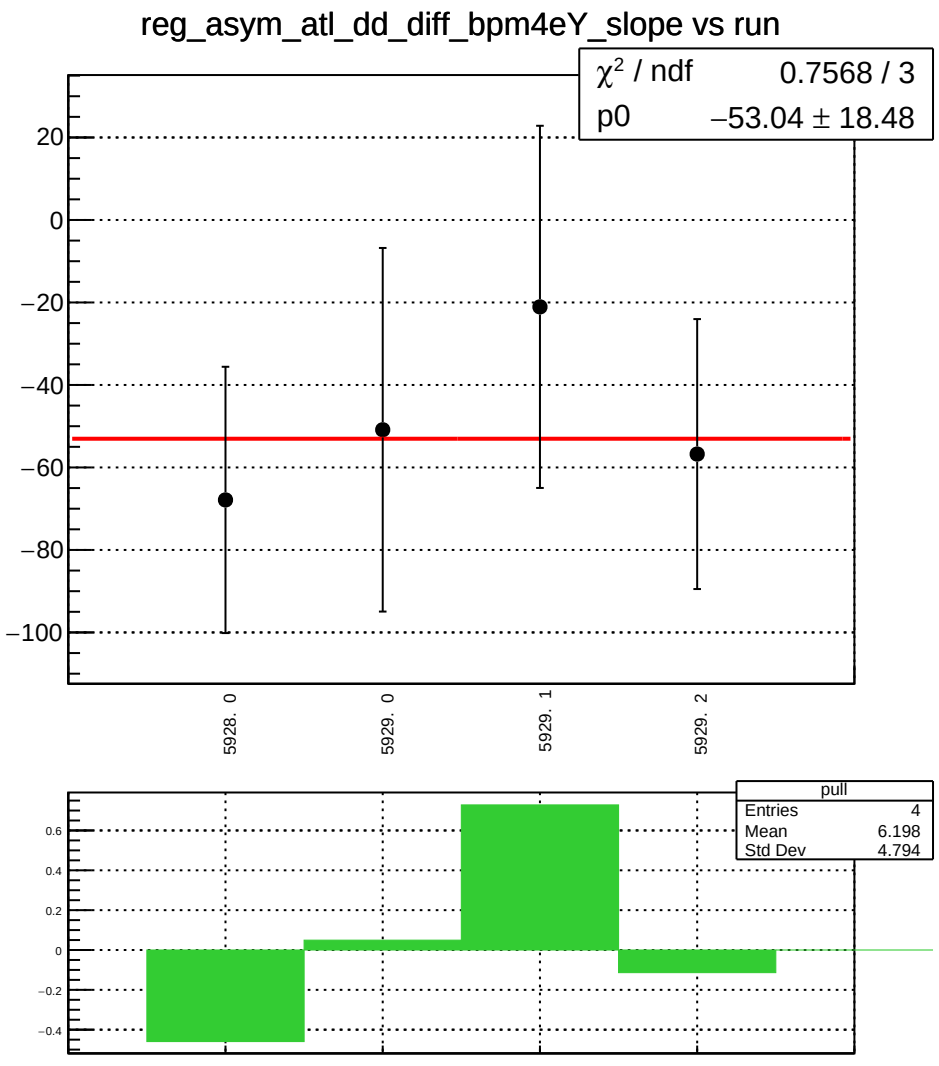

pull
Entries 4
Mean 21.57
Std Dev 20.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

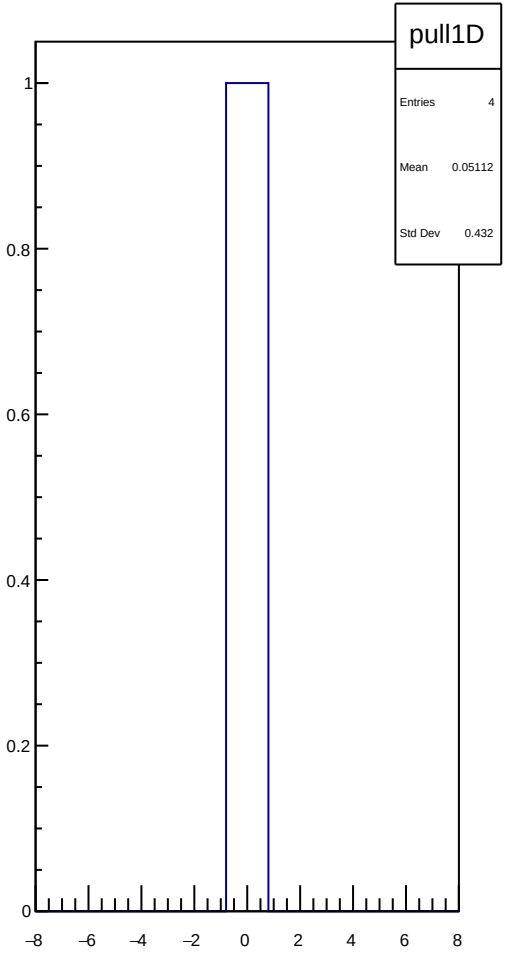

pull1D
Entries 4
Mean 0.01469
Std Dev 0.5269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

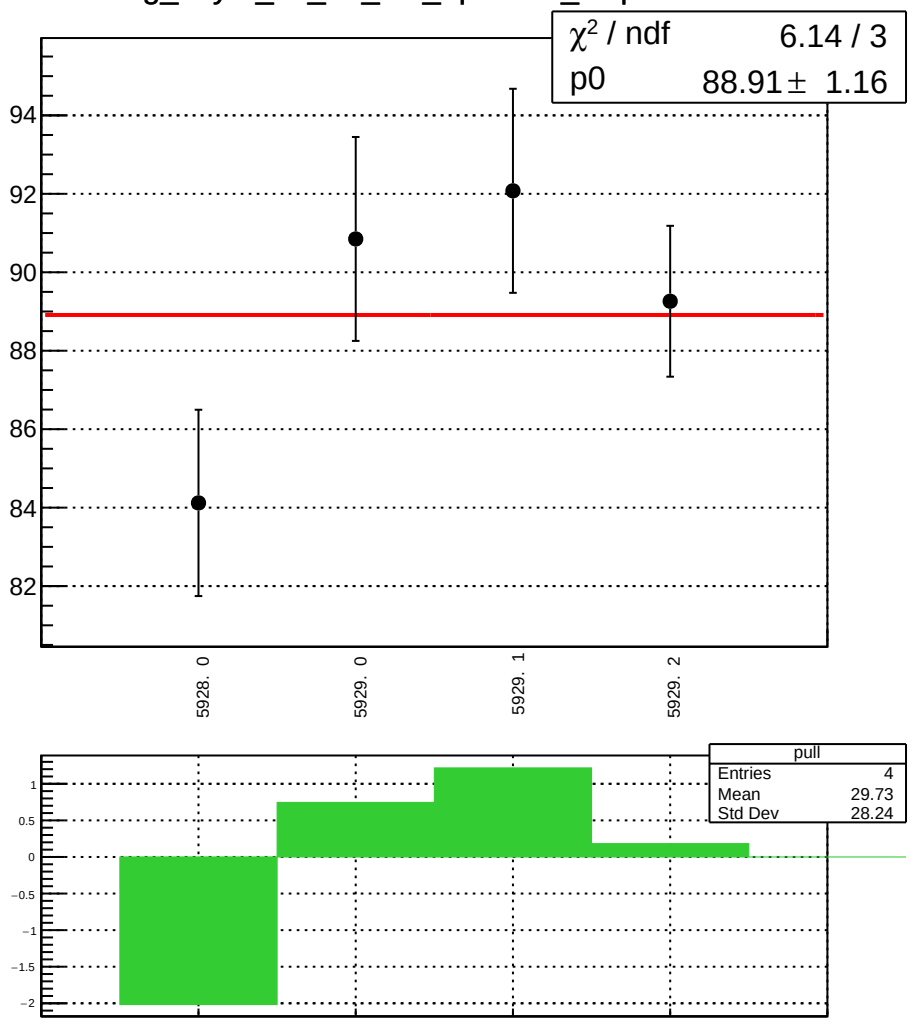

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6625 / 3
p0 −1.079 ± 16.6
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 5.001
Std Dev 3.745
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.05086
Std Dev 0.4038
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

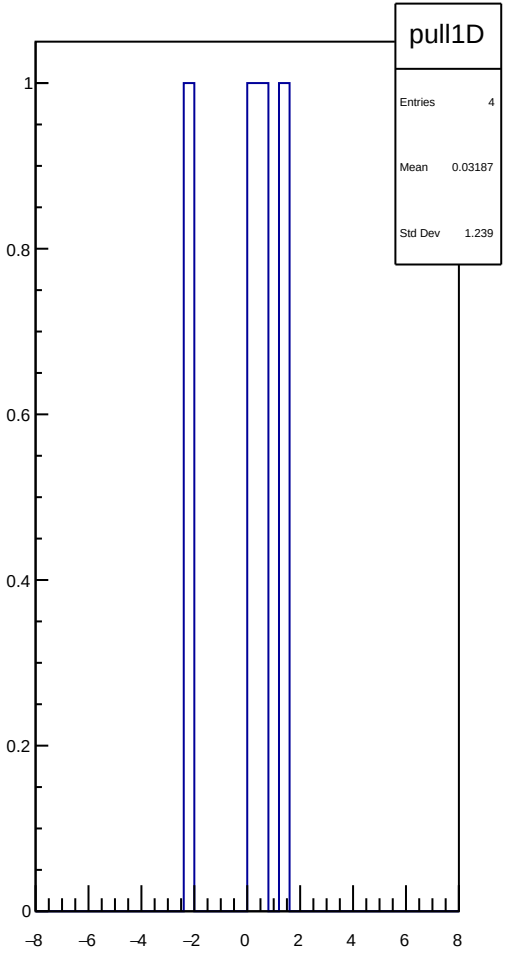

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8533 / 3
p0 −247.9 ± 25.35
−150
−200
−250
−300
−350
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 24.39
Std Dev 23.06
0.6
0.4
0.2
0
−0.2
−0.4

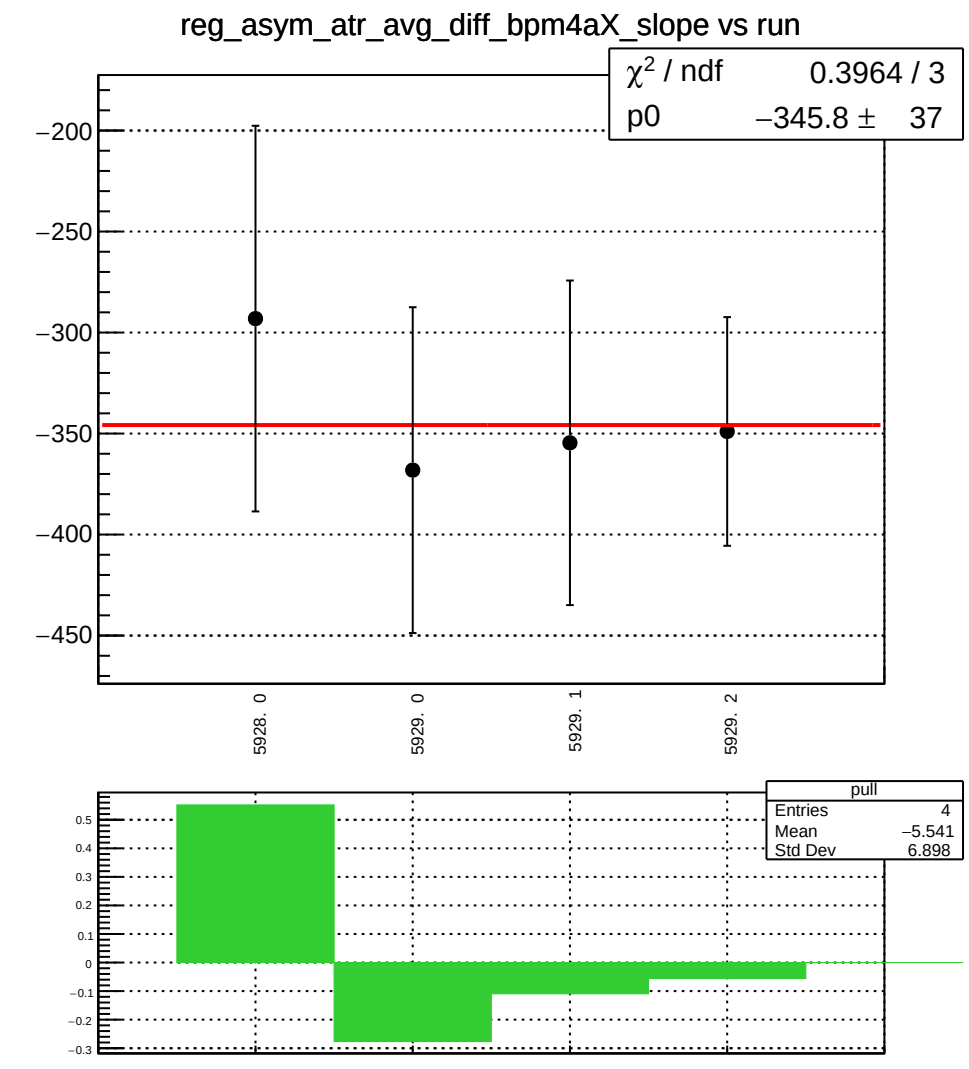

pull1D
Entries 4
Mean −0.011
Std Dev 0.4617
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

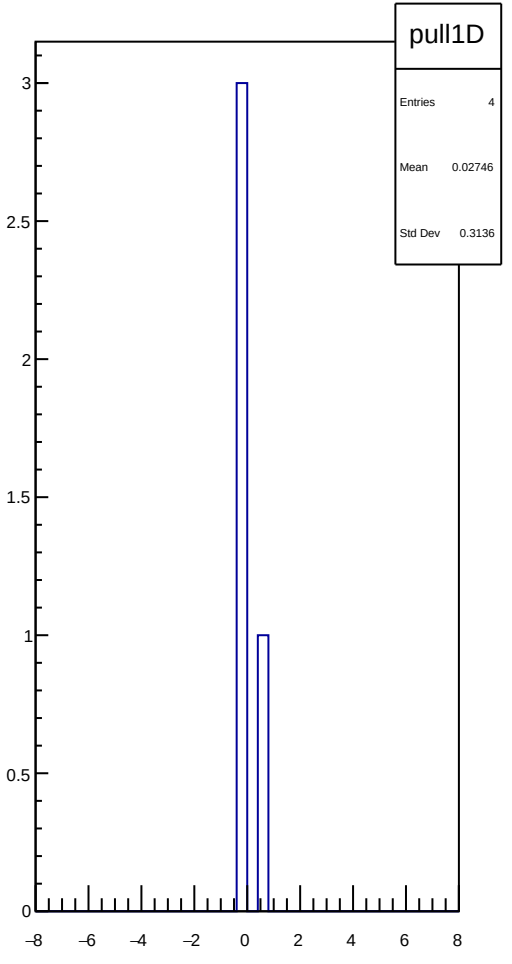

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7568 / 3
p0 −53.04 ± 18.48
20
0
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 6.198
Std Dev 4.794
0.6
0.4
0.2
0
−0.2
−0.4

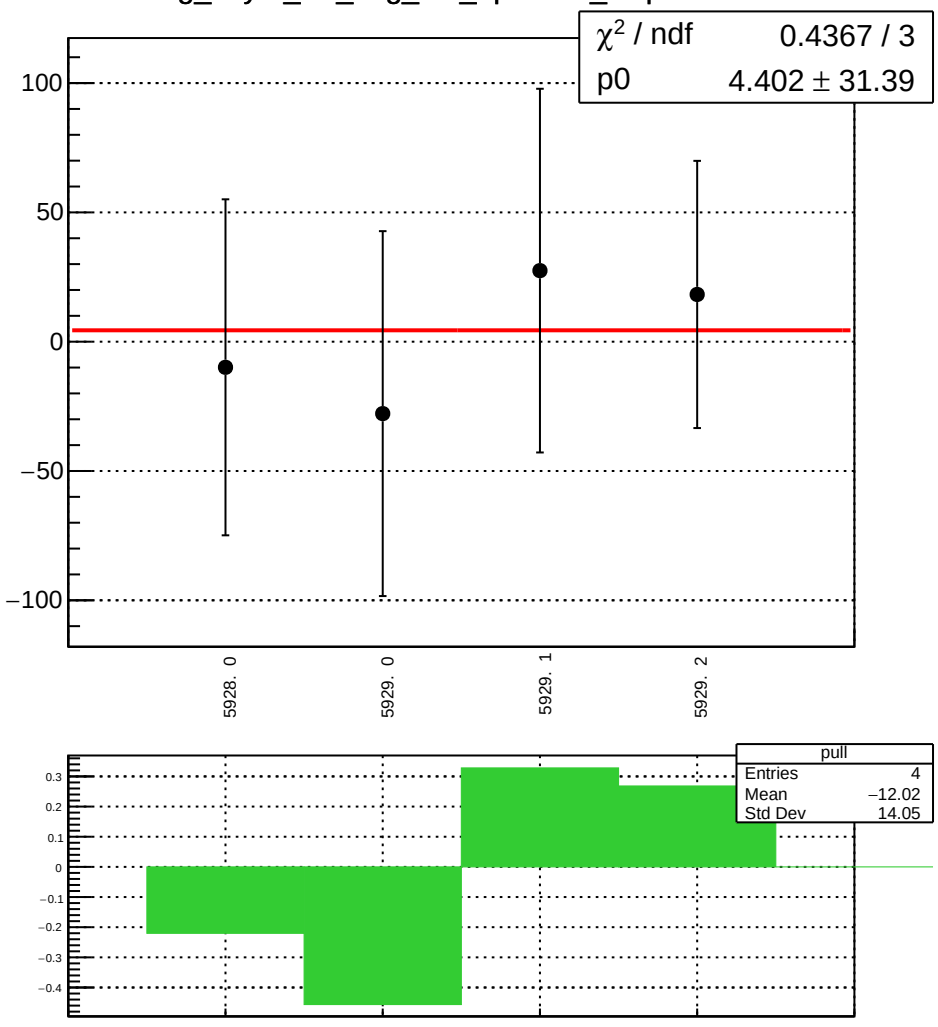

pull1D
Entries 4
Mean 0.05112
Std Dev 0.432
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

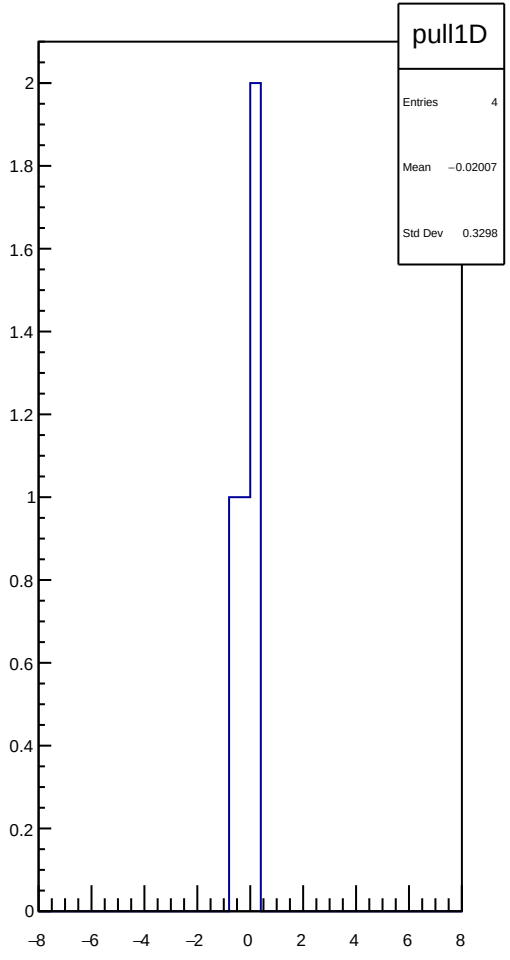

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 6.14 / 3
p0 88.91 ± 1.16
94
92
90
88
86
84
82
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 29.73
Std Dev 28.24
1
0.5
0
−0.5
−1
−1.5
−2

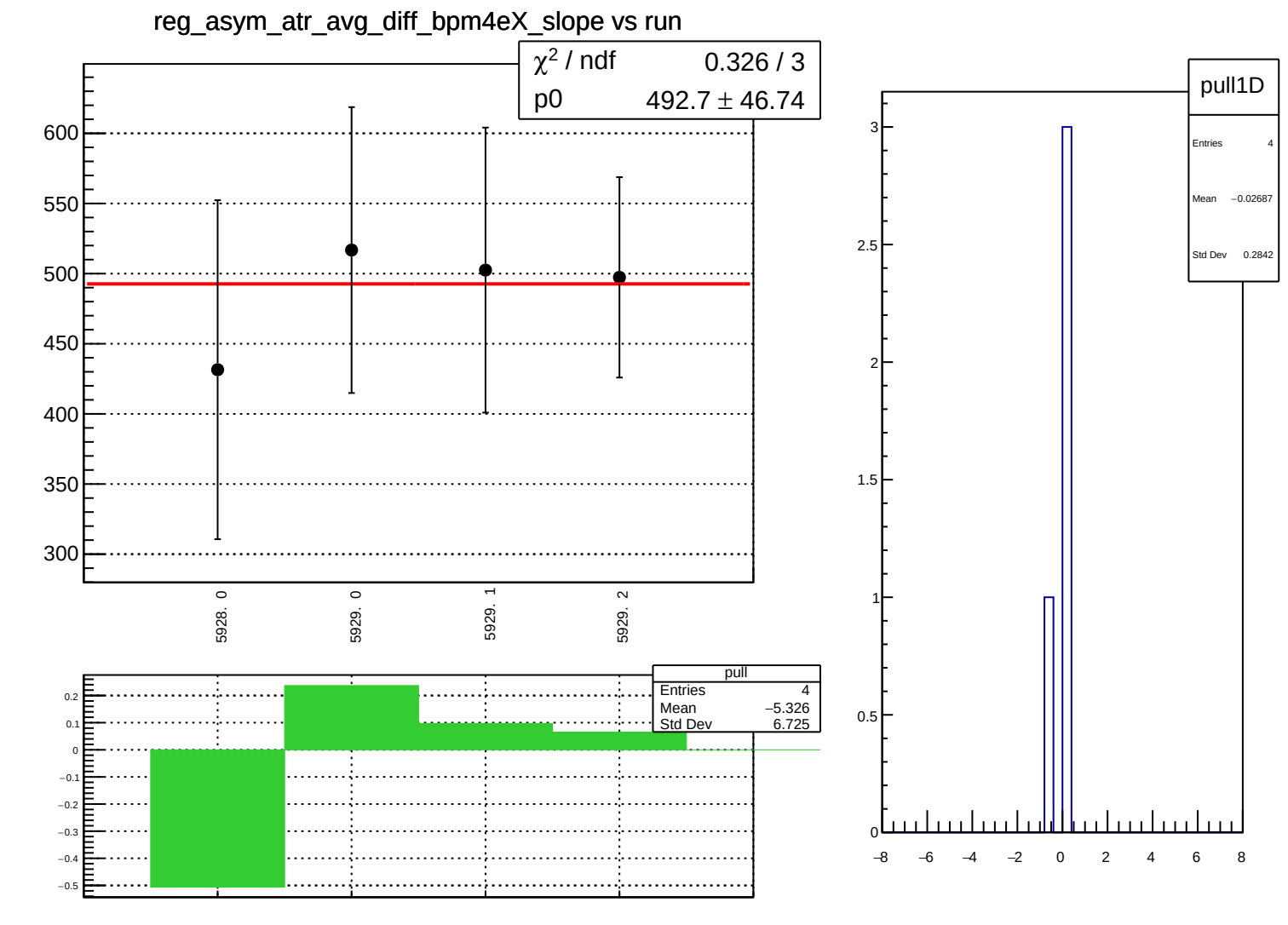

pull1D
Entries 4
Mean 0.03187
Std Dev 1.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

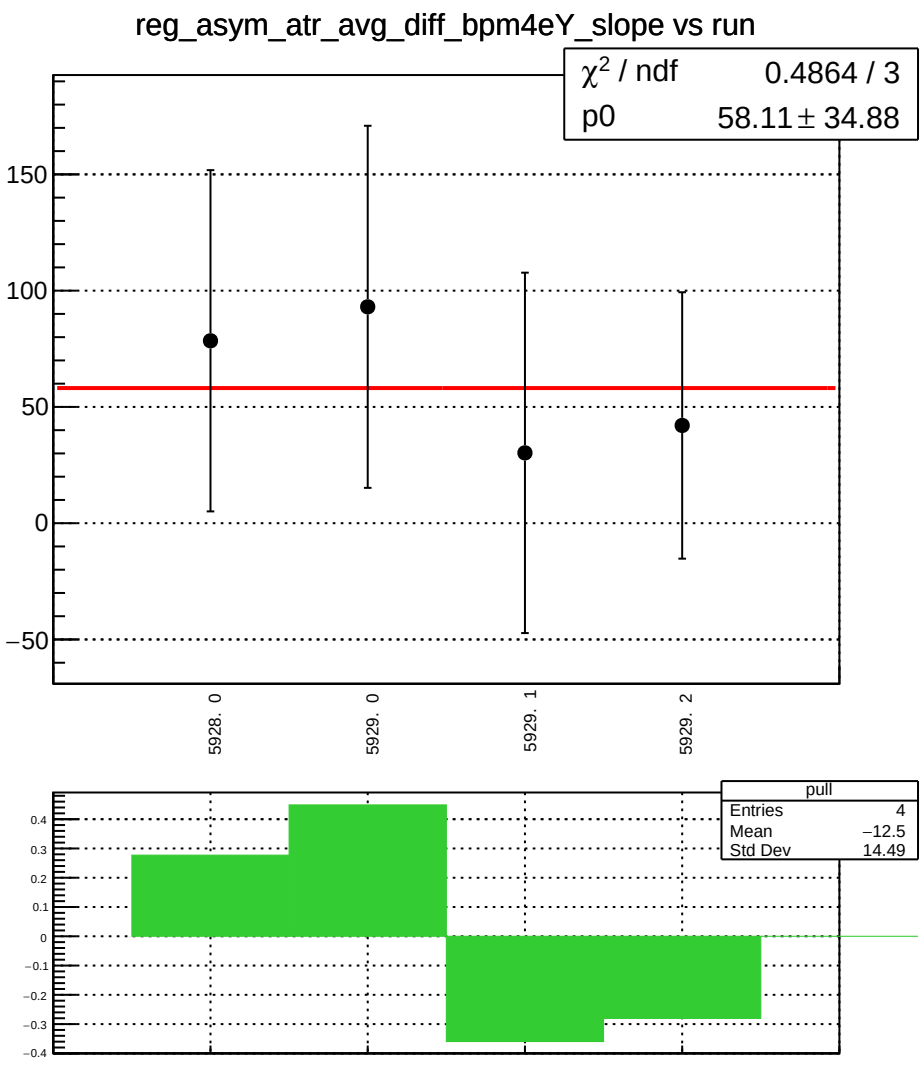

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.3964 / 3
p0 −345.8 ± 37
−200
−250
−300
−350
−400
−450
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.541
Std Dev 6.898
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

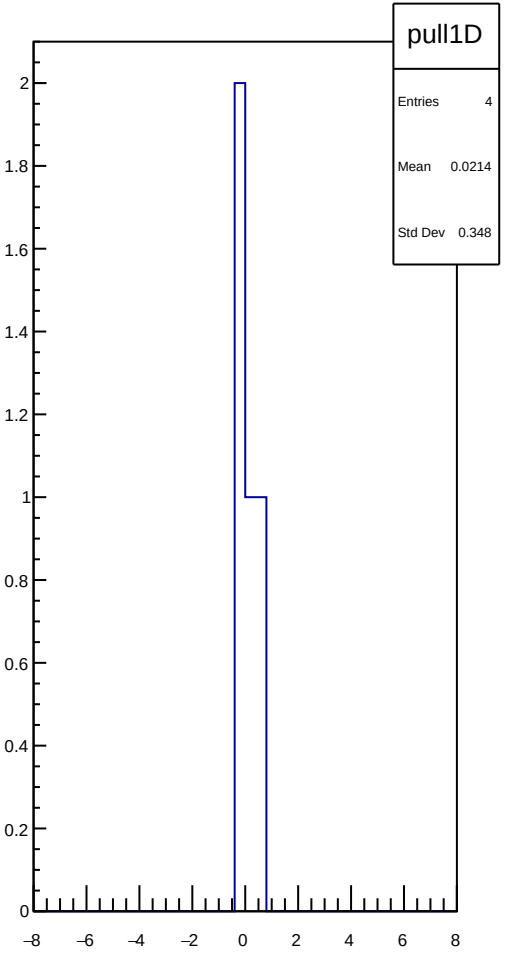

pull1D
Entries 4
Mean 0.02746
Std Dev 0.3136
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

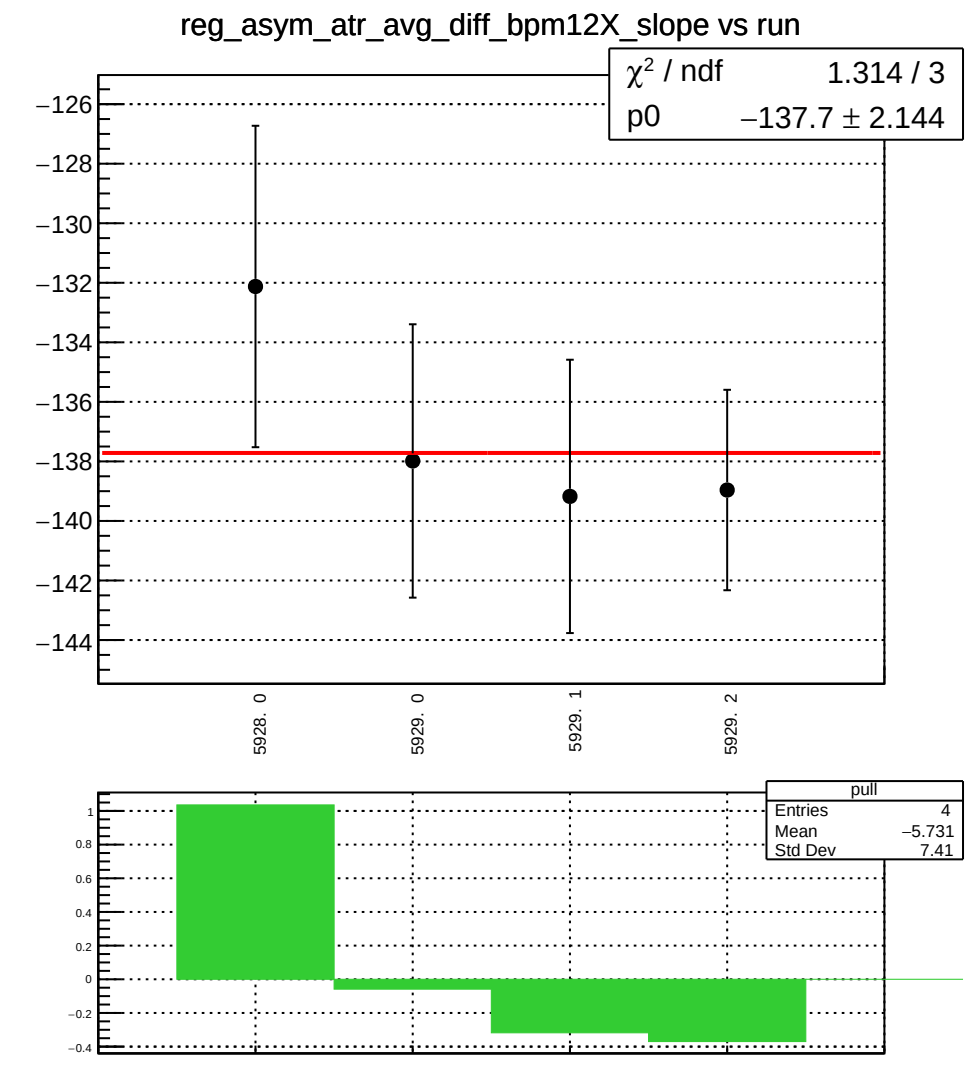

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4367 / 3
p0 4.402 ± 31.39
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.02
Std Dev 14.05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

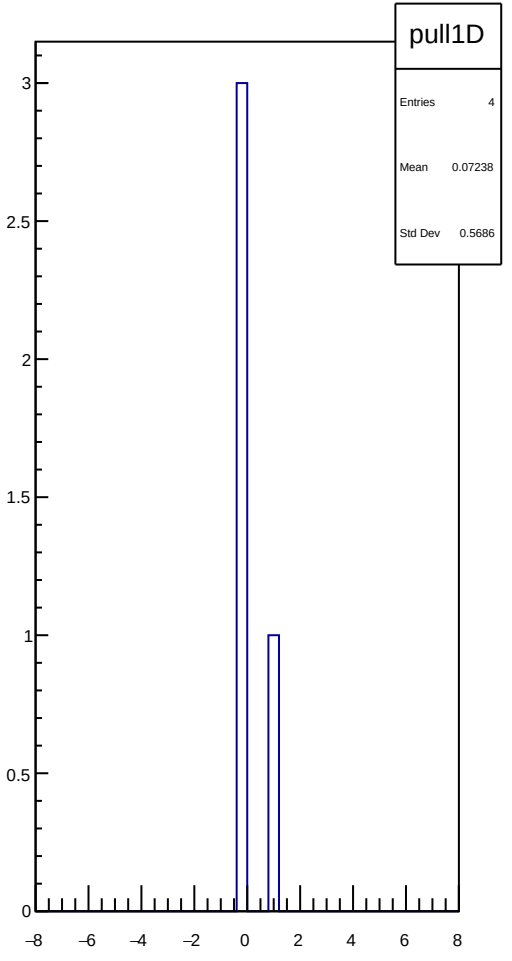

pull1D
Entries 4
Mean −0.02007
Std Dev 0.3298
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

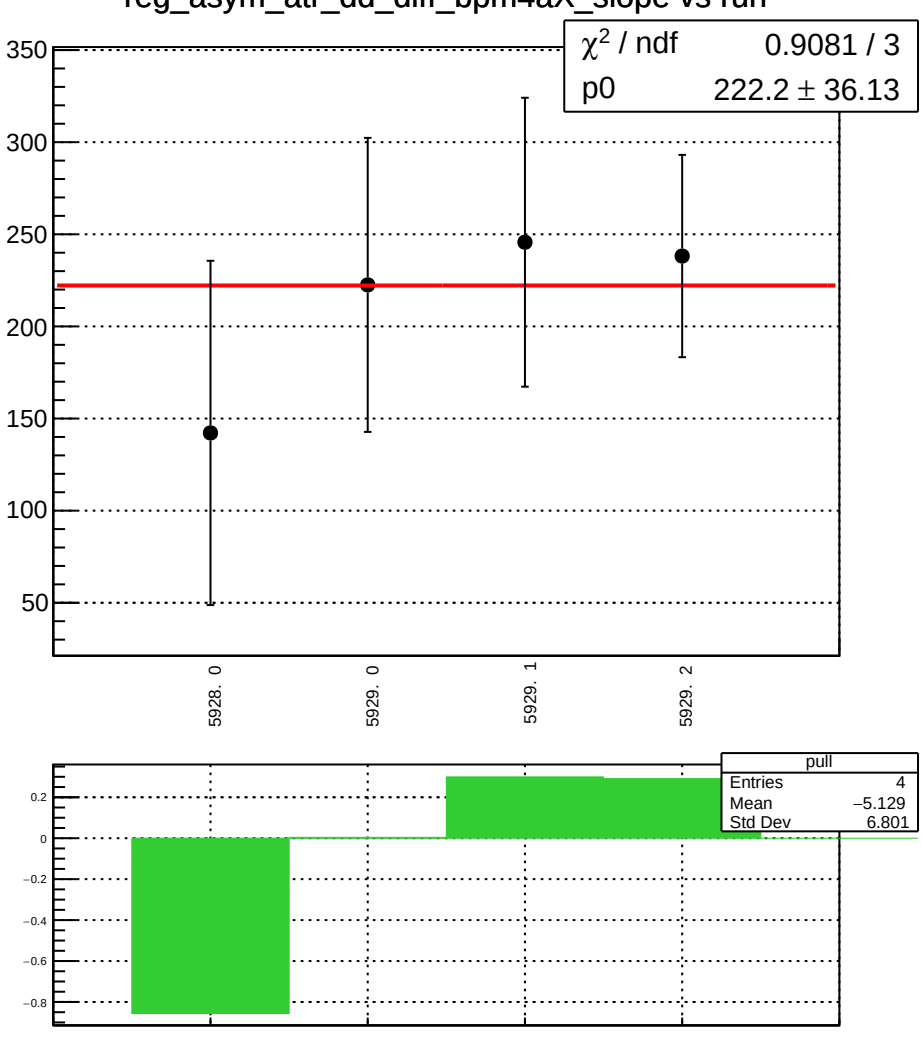

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.326 / 3
p0 492.7 ± 46.74
600
550
500
450
400
350
300
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.326
Std Dev 6.725
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 4
Mean −0.02687
Std Dev 0.2842
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

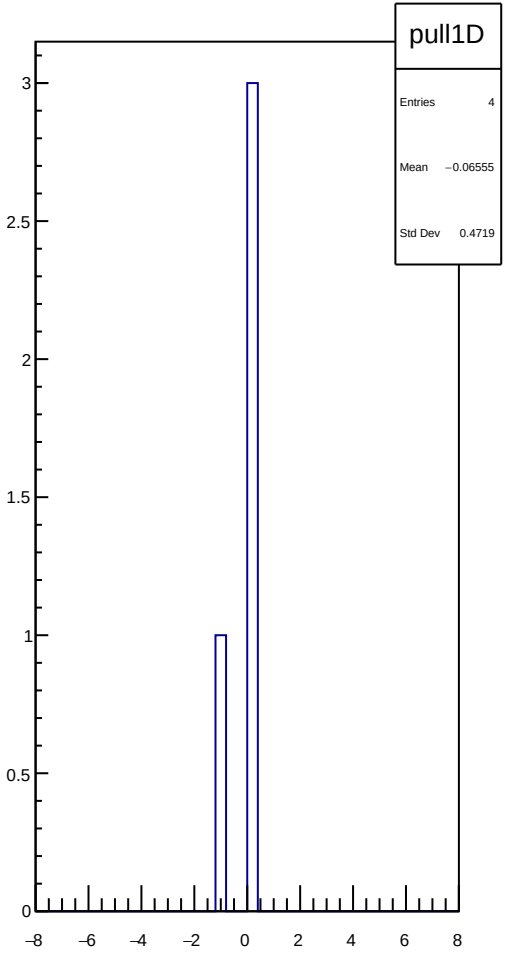

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4864 / 3
p0 58.11 ± 34.88
150
100
50
0
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.5
Std Dev 14.49
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

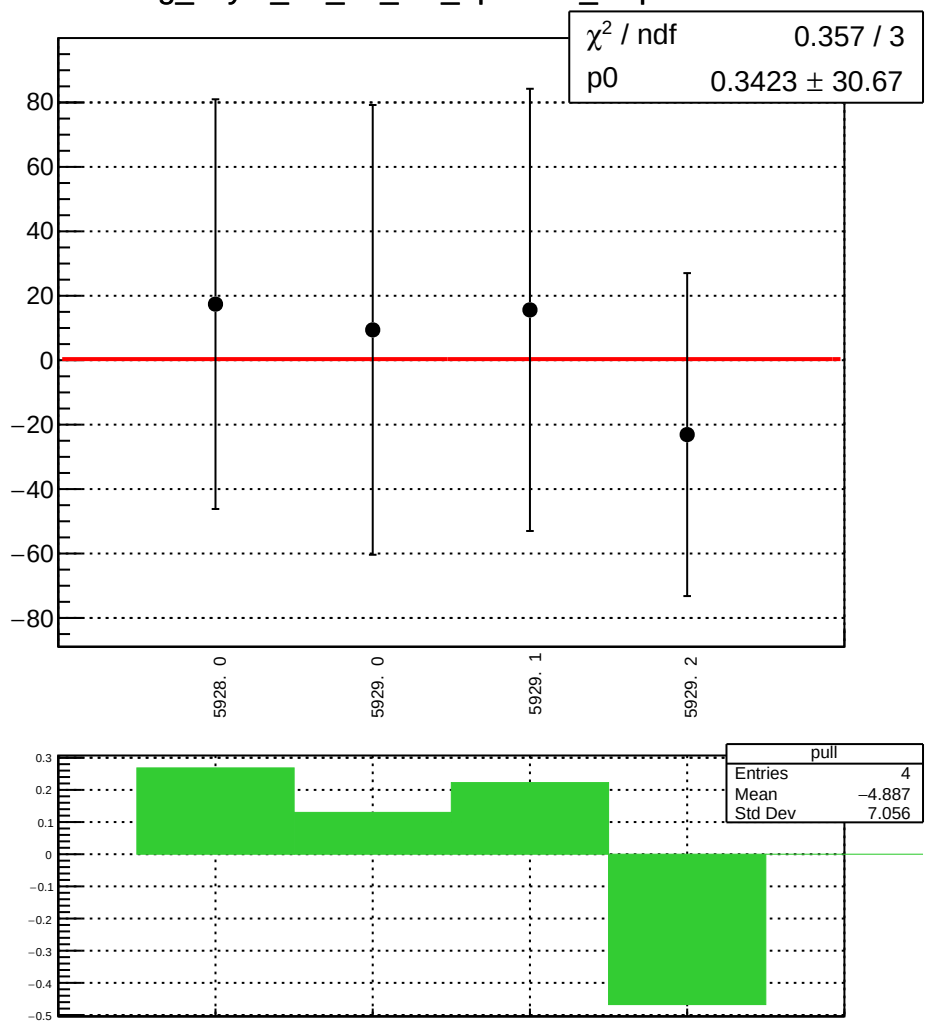

pull1D
Entries 4
Mean 0.0214
Std Dev 0.348
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

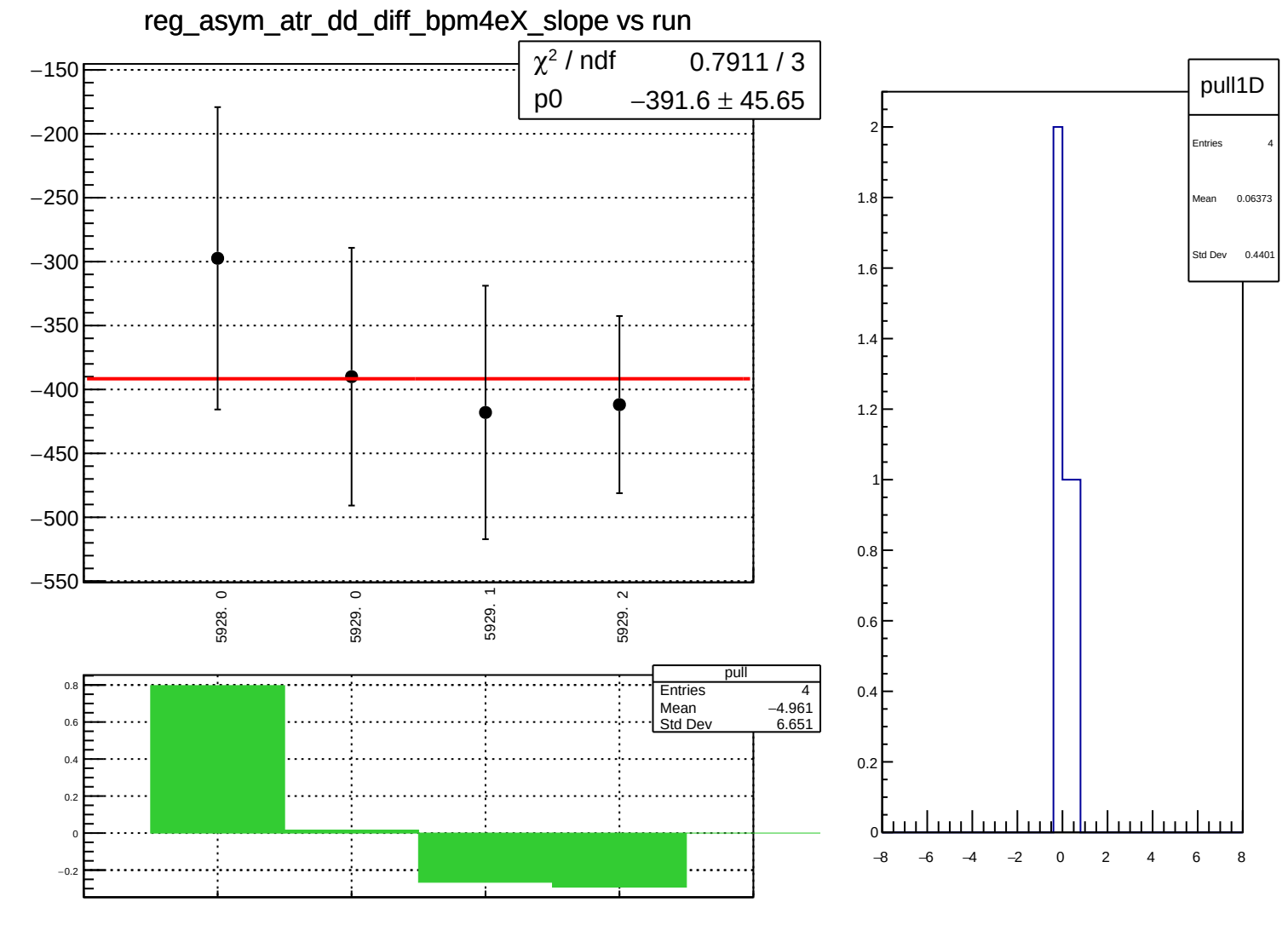

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 1.314 / 3
p0 −137.7 ± 2.144
−126
−128
−130
−132
−134
−136
−138
−140
−142
−144
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.731
Std Dev 7.41
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

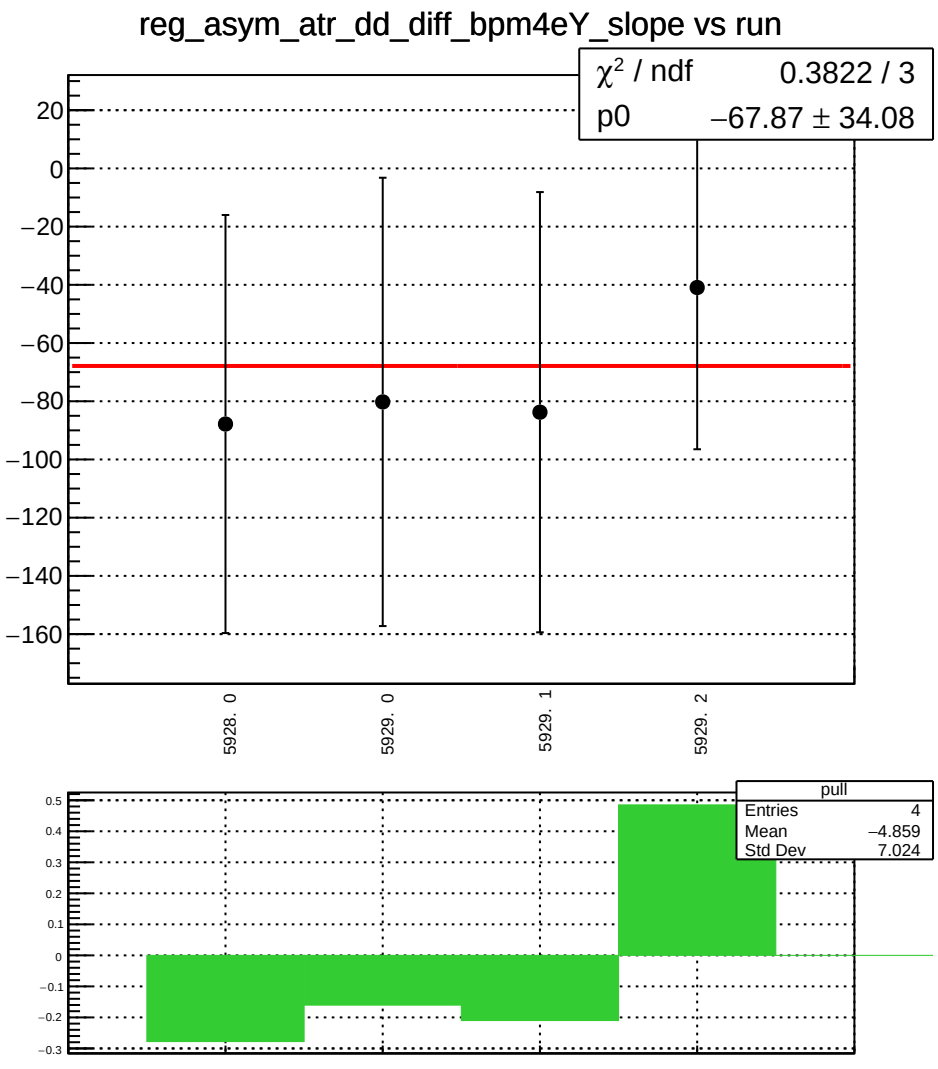

pull1D
Entries 4
Mean 0.07238
Std Dev 0.5686
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

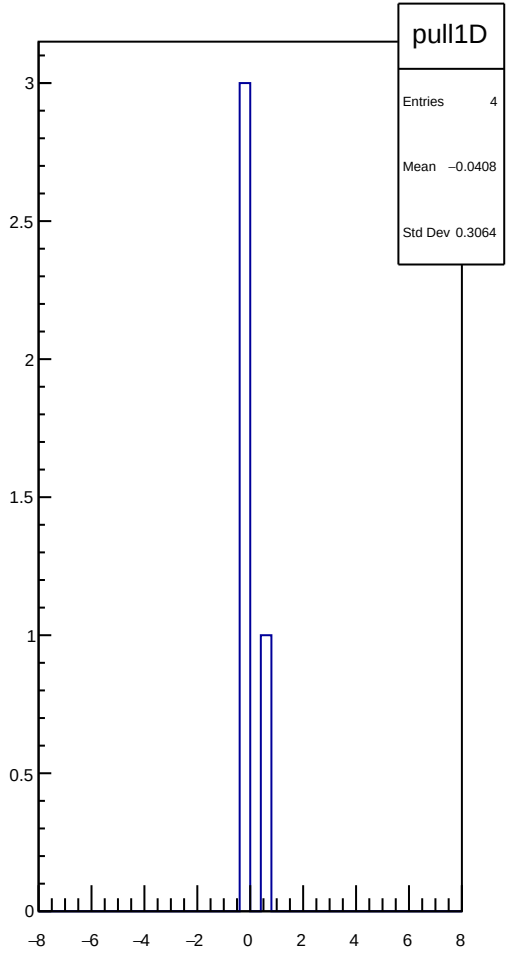

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.9081 / 3
p0 222.2 ± 36.13
350
300
250
200
150
100
50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.129
Std Dev 6.801
0.2
0
−0.2
−0.4
−0.6
−0.8

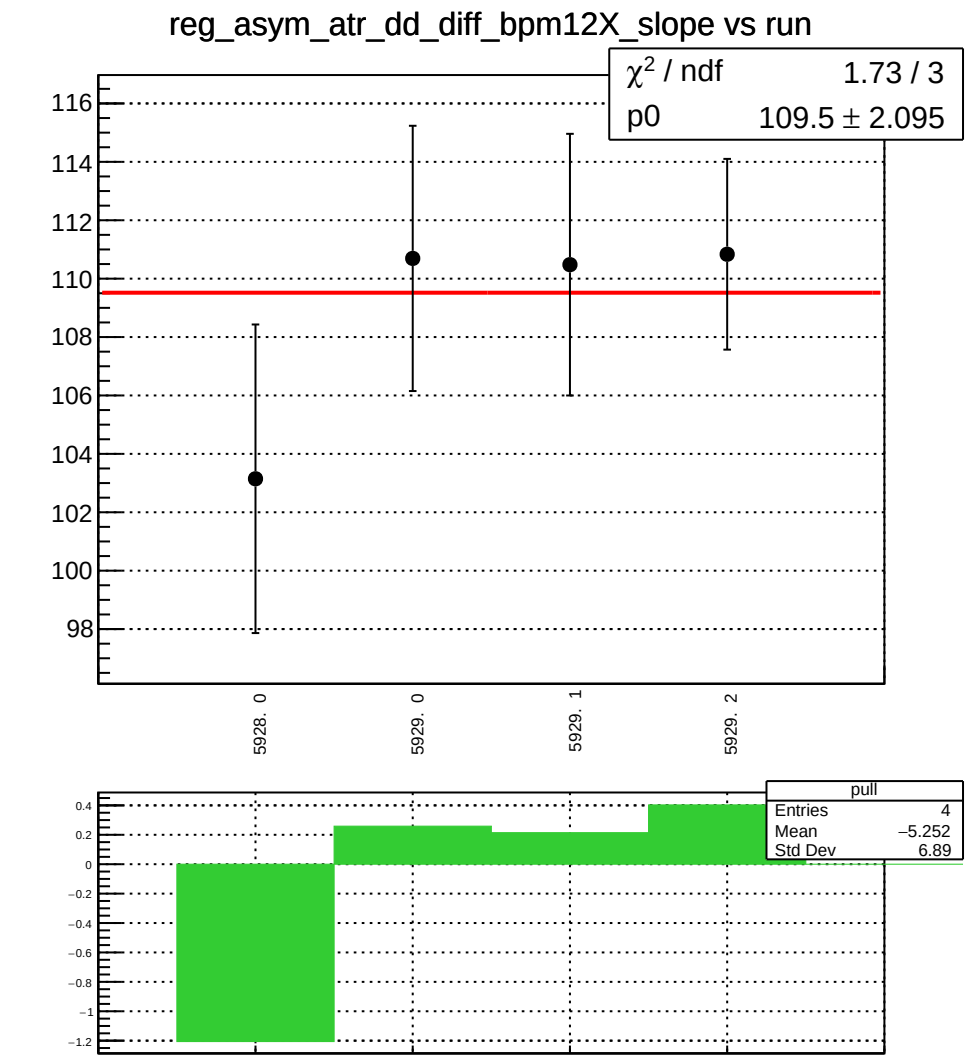

pull1D
Entries 4
Mean −0.06555
Std Dev 0.4719
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

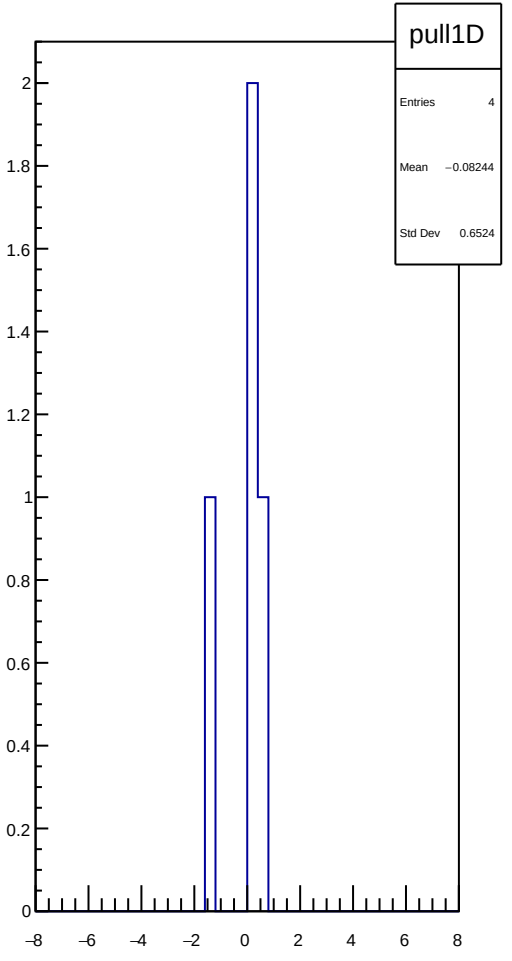

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.357 / 3
p0 0.3423 ± 30.67
80
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.887
Std Dev 7.056
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 4
Mean 0.03838
Std Dev 0.2963
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

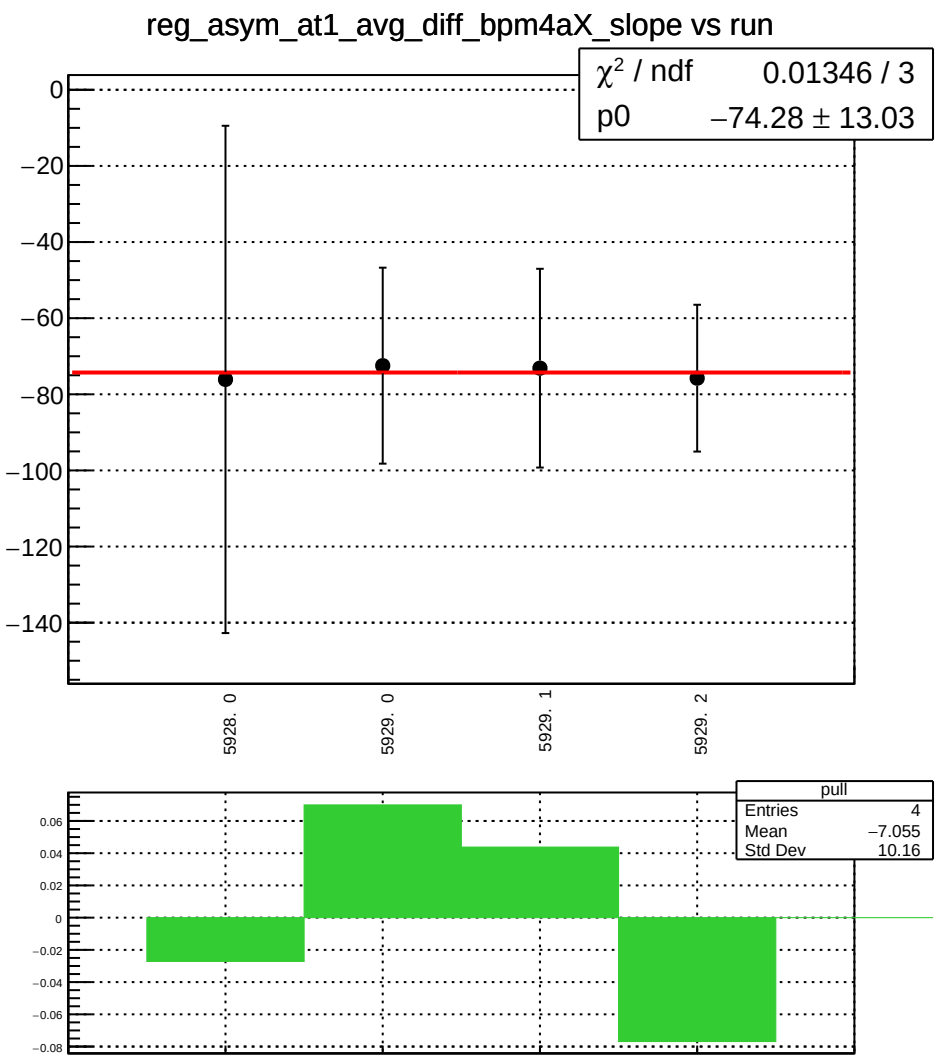

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7911 / 3
p0 −391.6 ± 45.65
−150
−200
−250
−300
−350
−400
−450
−500
−550
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.961
Std Dev 6.651
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean 0.06373
Std Dev 0.4401
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

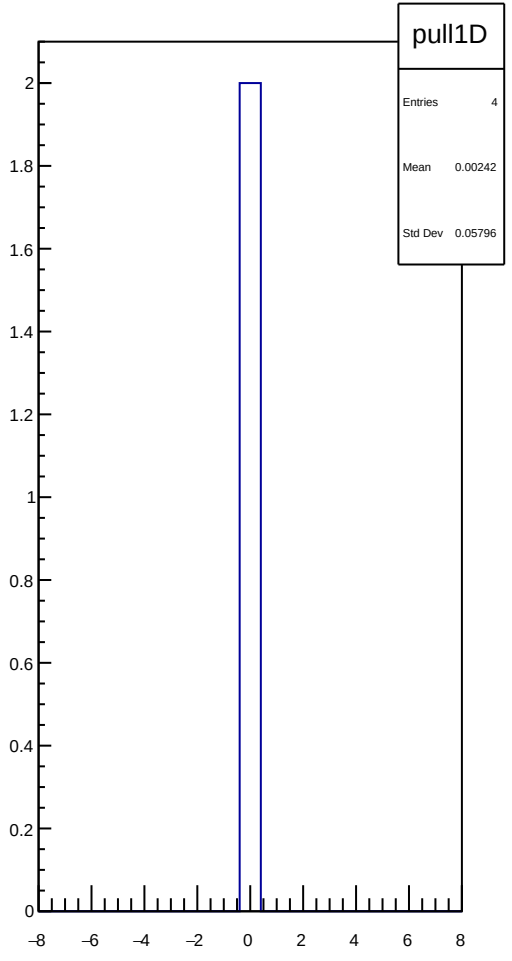

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3822 / 3
p0 −67.87 ± 34.08
20
0
−20
−40
−60
−80
−100
−120
−140
−160
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.859
Std Dev 7.024
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

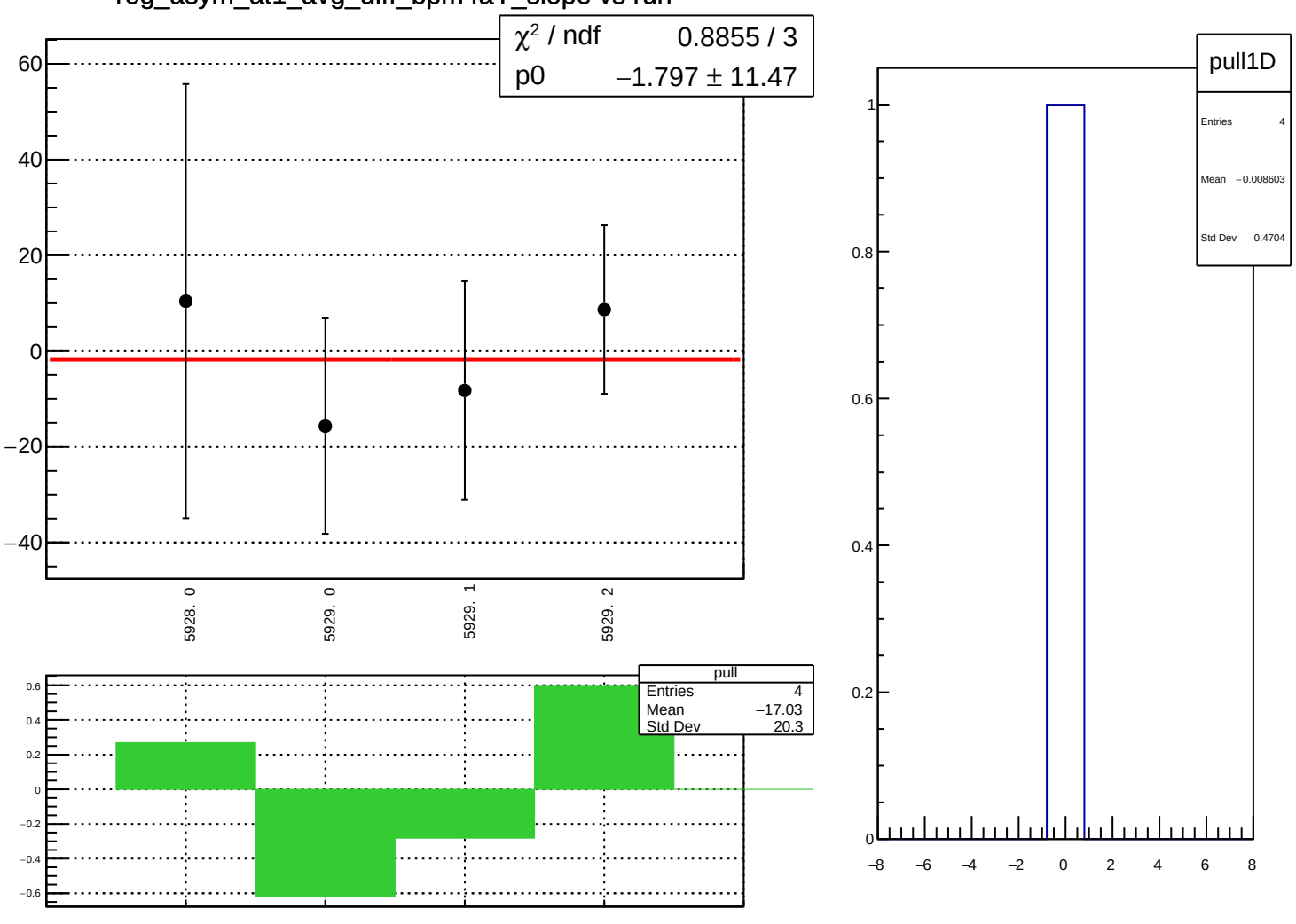

pull1D
Entries 4
Mean −0.0408
Std Dev 0.3064
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

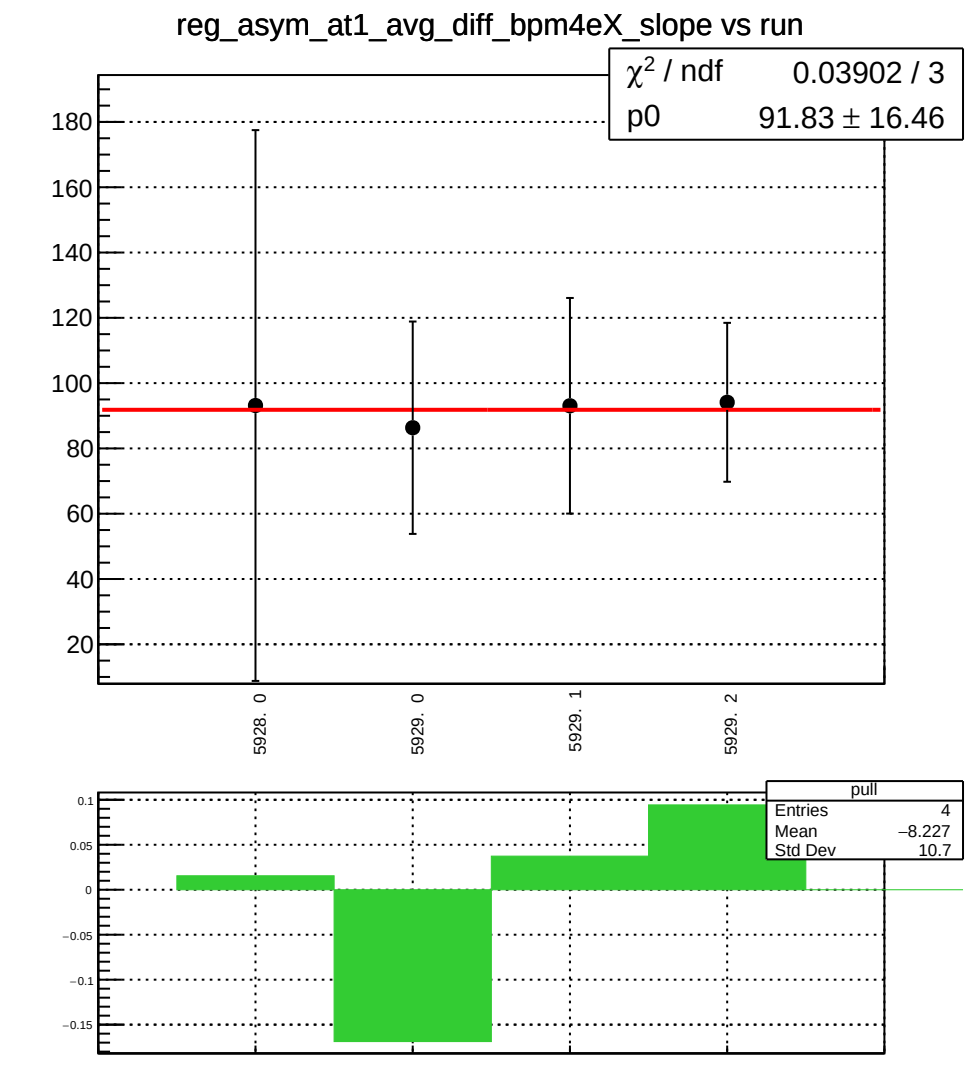

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 1.73 / 3
p0 109.5 ± 2.095
116
114
112
110
108
106
104
102
100
98
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.252
Std Dev 6.89
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

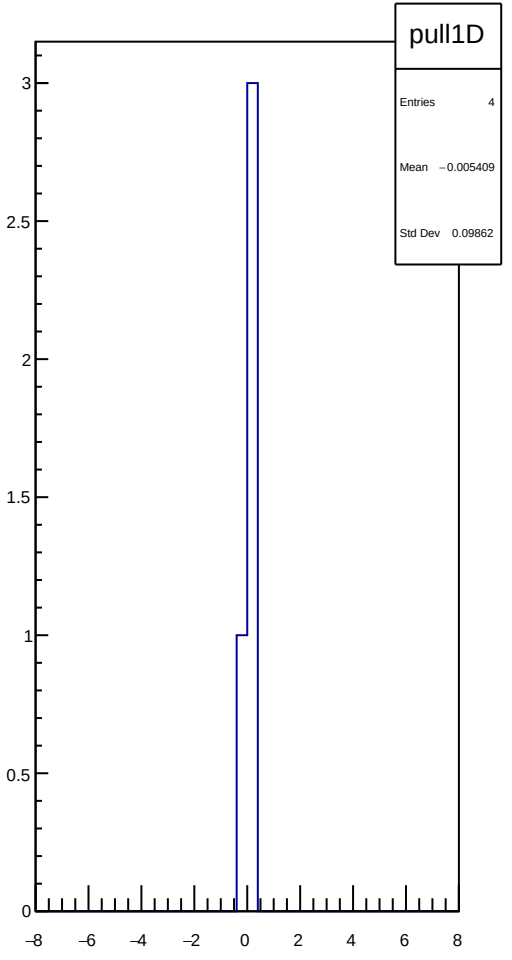

pull1D
Entries 4
Mean −0.08244
Std Dev 0.6524
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

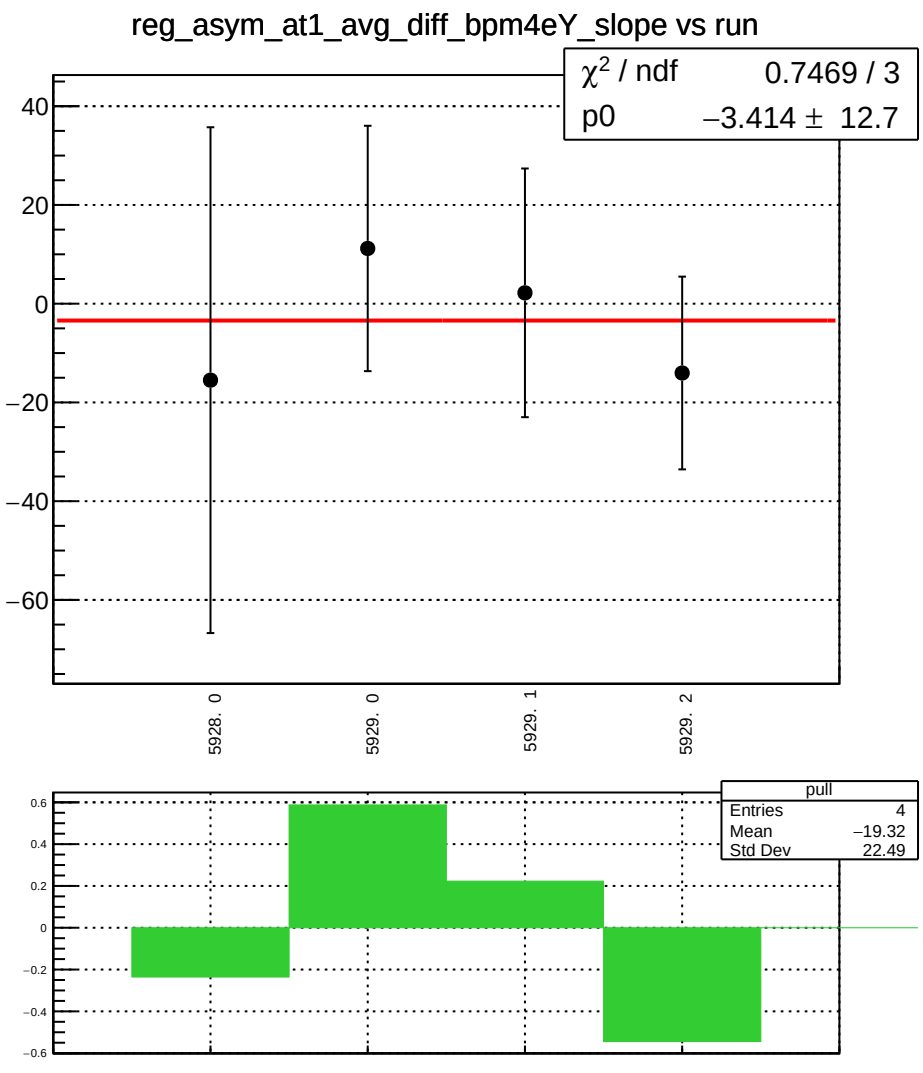

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.01346 / 3
p0 −74.28 ± 13.03
0
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.055
Std Dev 10.16
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08

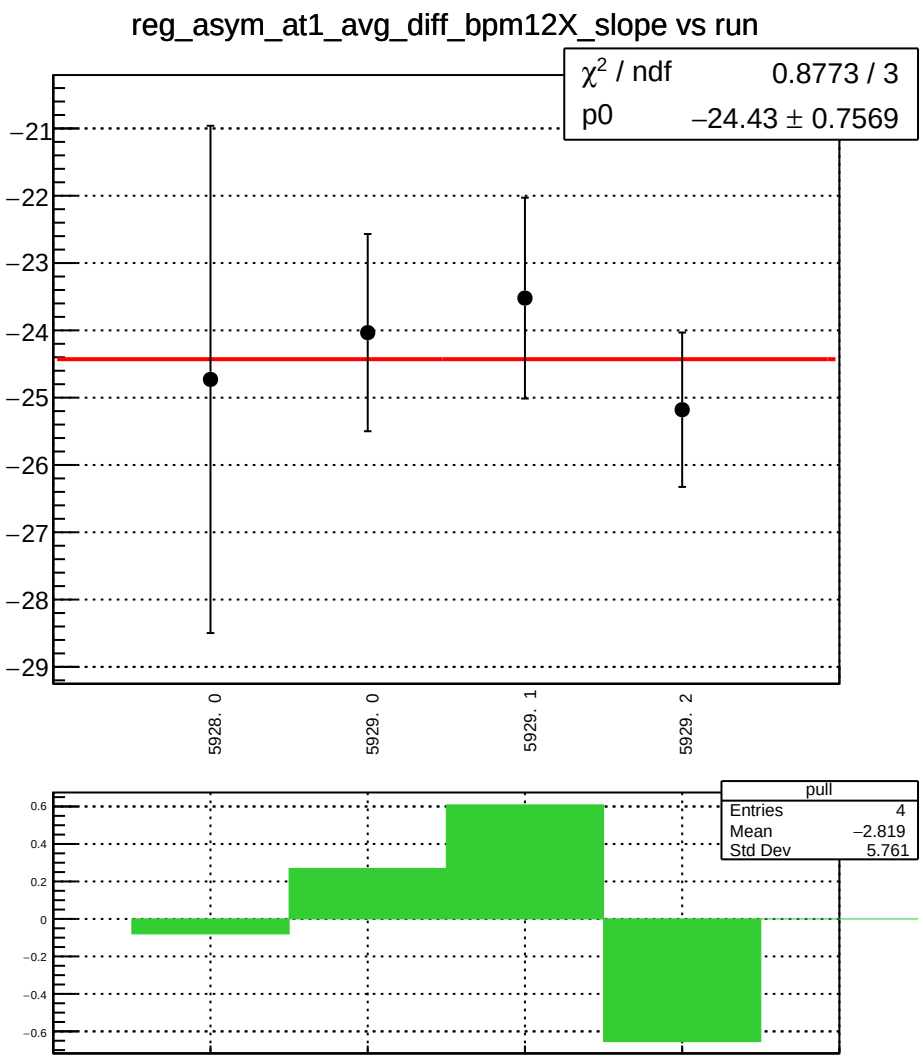

pull1D
Entries 4
Mean 0.00242
Std Dev 0.05796
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

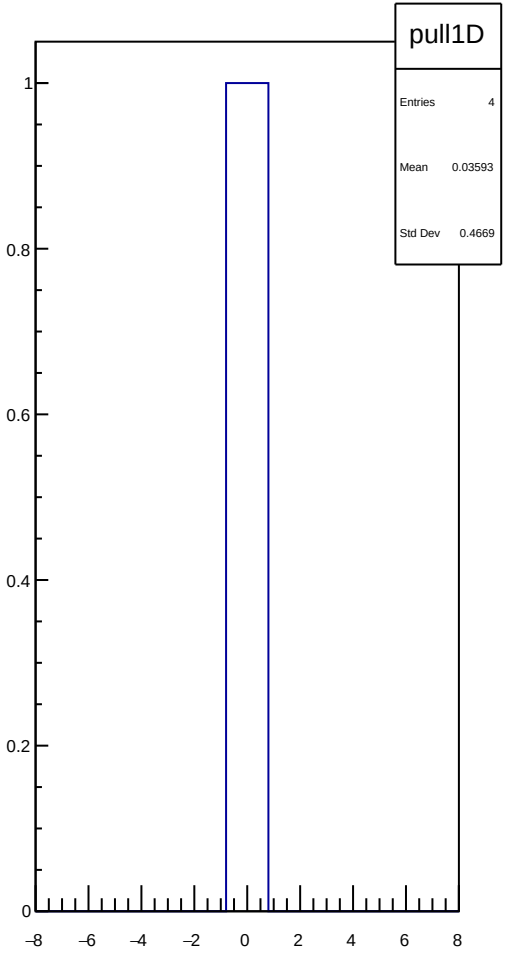

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.8855 / 3
p0 −1.797 ± 11.47
60
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −17.03
Std Dev 20.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.008603
Std Dev 0.4704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

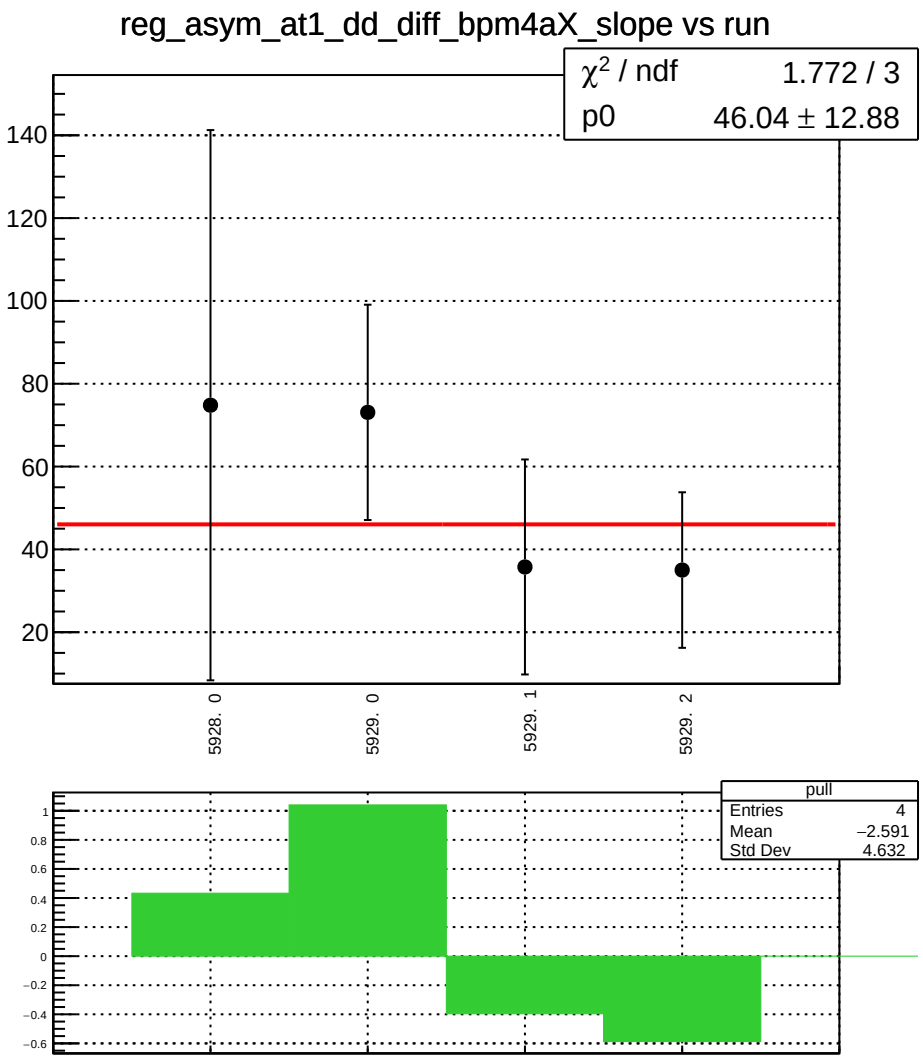

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.03902 / 3
p0 91.83 ± 16.46
180
160
140
120
100
80
60
40
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −8.227
Std Dev 10.7
0.1
0.05
0
−0.05
−0.1
−0.15

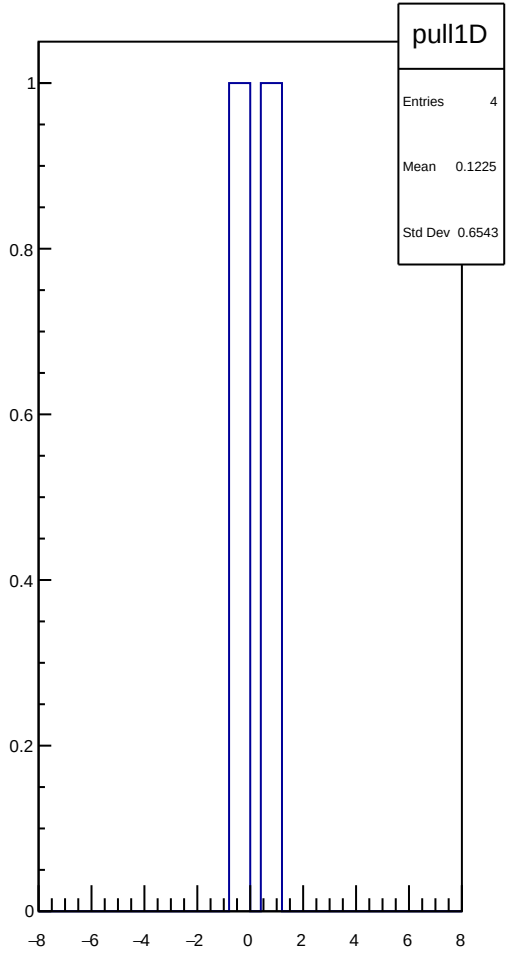

pull1D
Entries 4
Mean −0.005409
Std Dev 0.09862
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

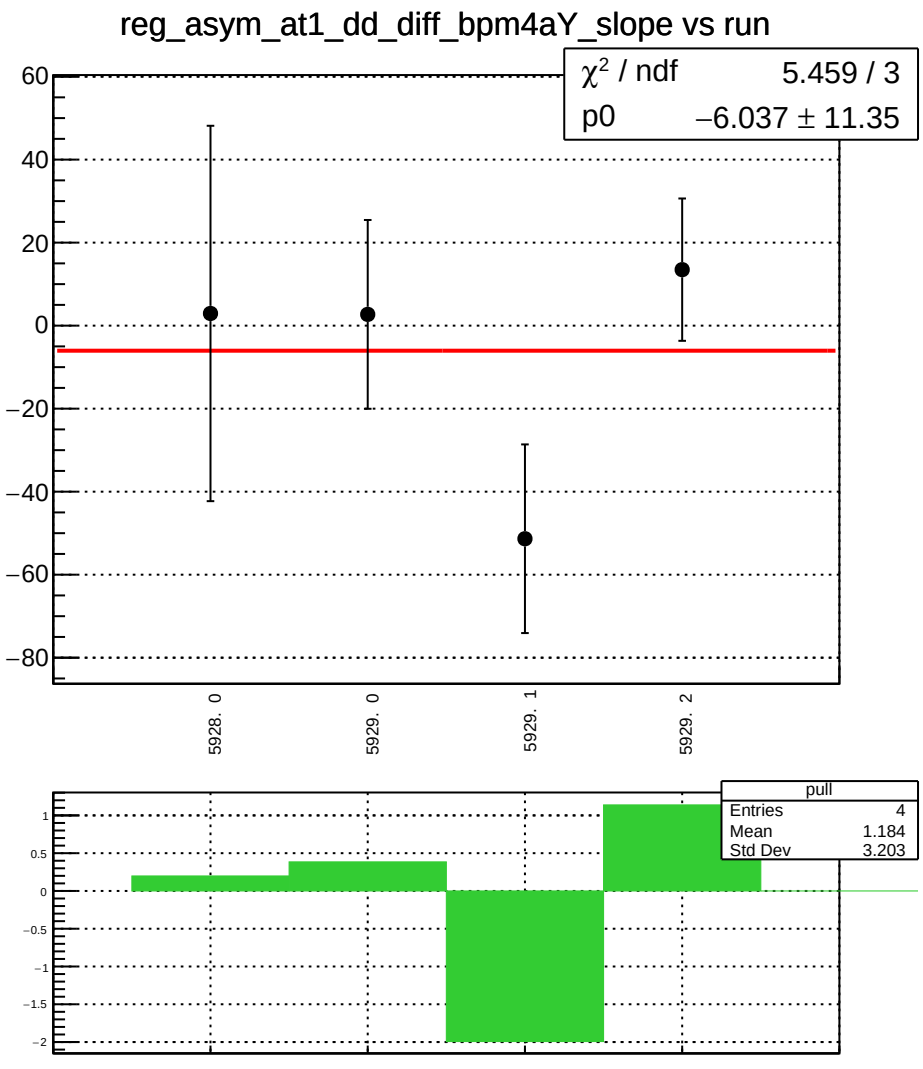

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7469 / 3
p0 −3.414 ± 12.7
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −19.32
Std Dev 22.49
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.007569
Std Dev 0.4321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

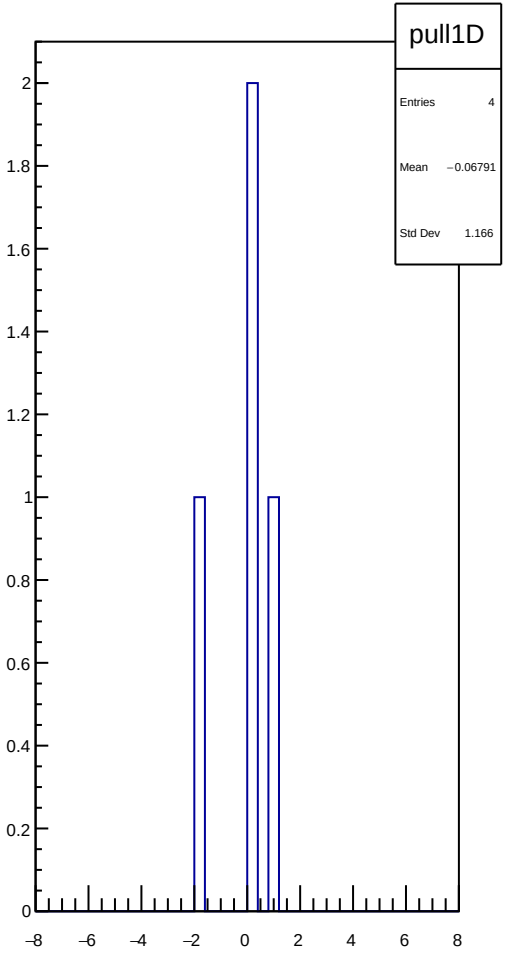

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8773 / 3
p0 −24.43 ± 0.7569
−21
−22
−23
−24
−25
−26
−27
−28
−29
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.819
Std Dev 5.761
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

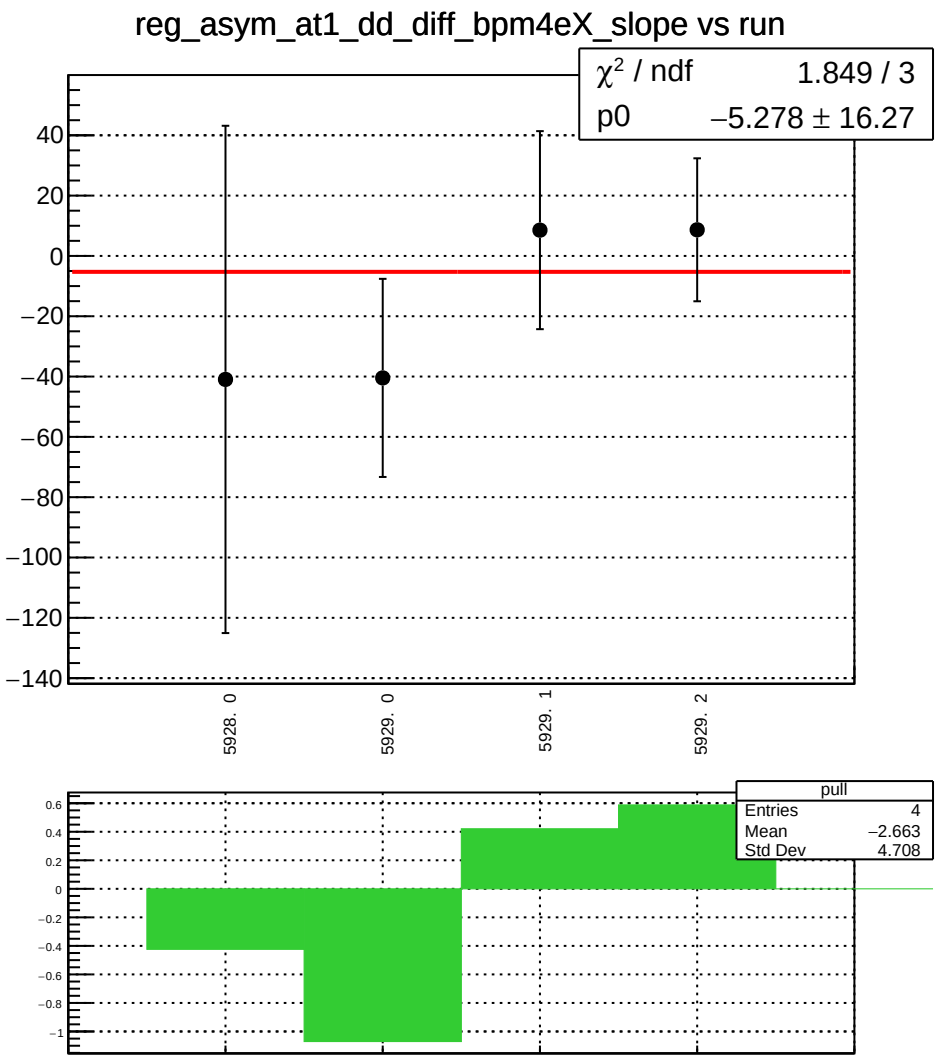

pull1D
Entries 4
Mean 0.03593
Std Dev 0.4669
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

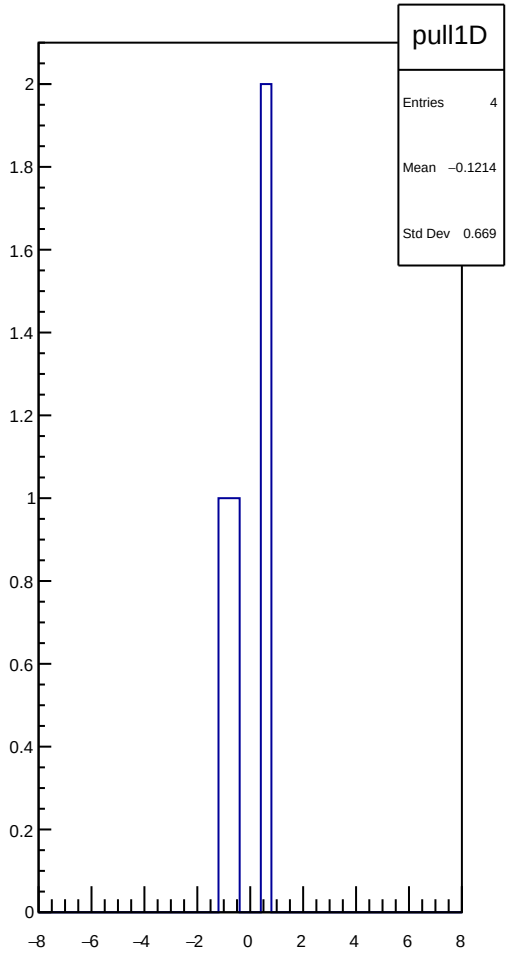

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.772 / 3
p0 46.04 ± 12.88
140
120
100
80
60
40
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.591
Std Dev 4.632
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

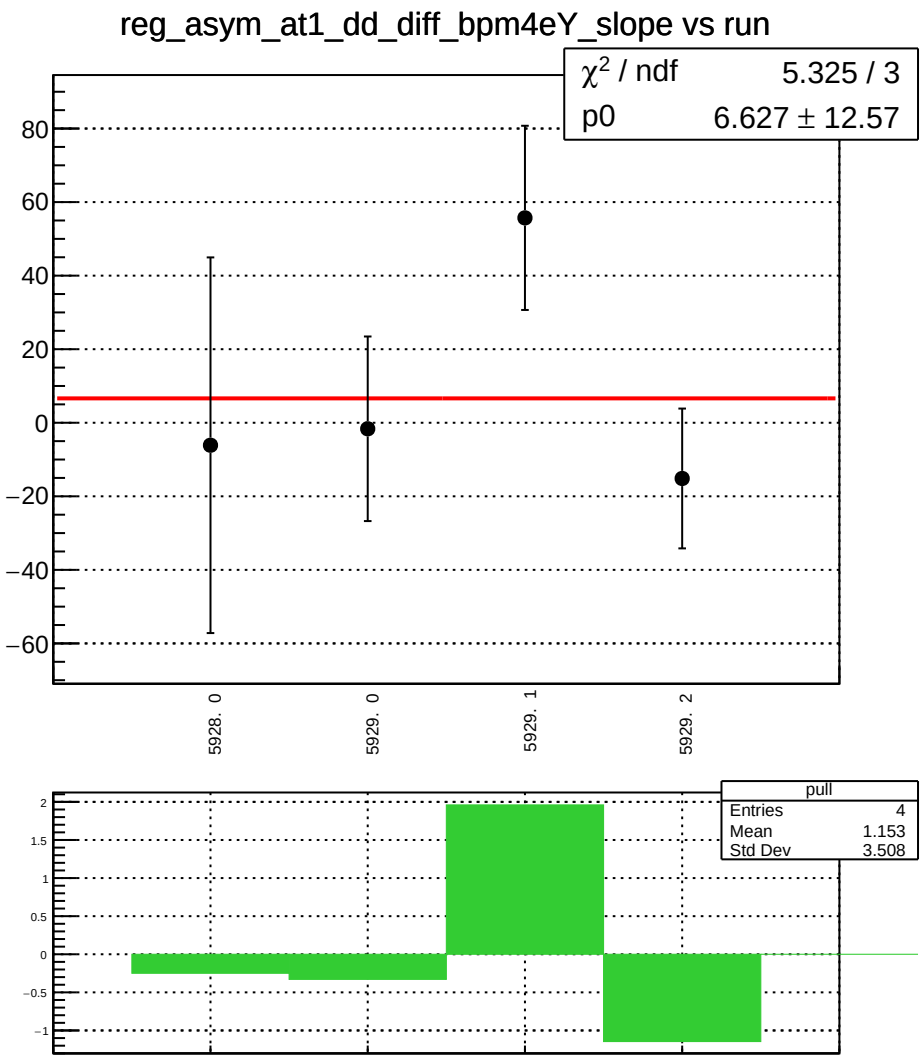

pull1D
Entries 4
Mean 0.1225
Std Dev 0.6543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

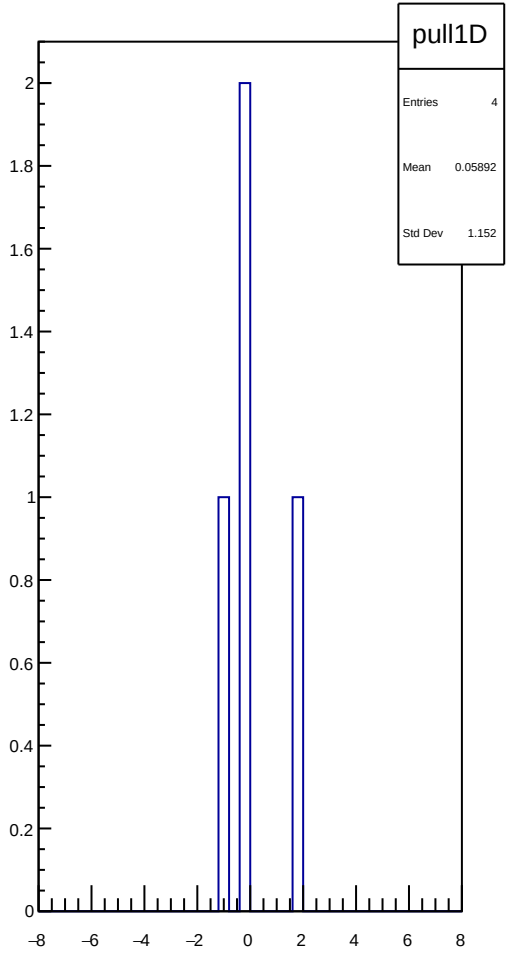

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.459 / 3
p0 −6.037 ± 11.35
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.184
Std Dev 3.203
1
0.5
0
−0.5
−1
−1.5
−2

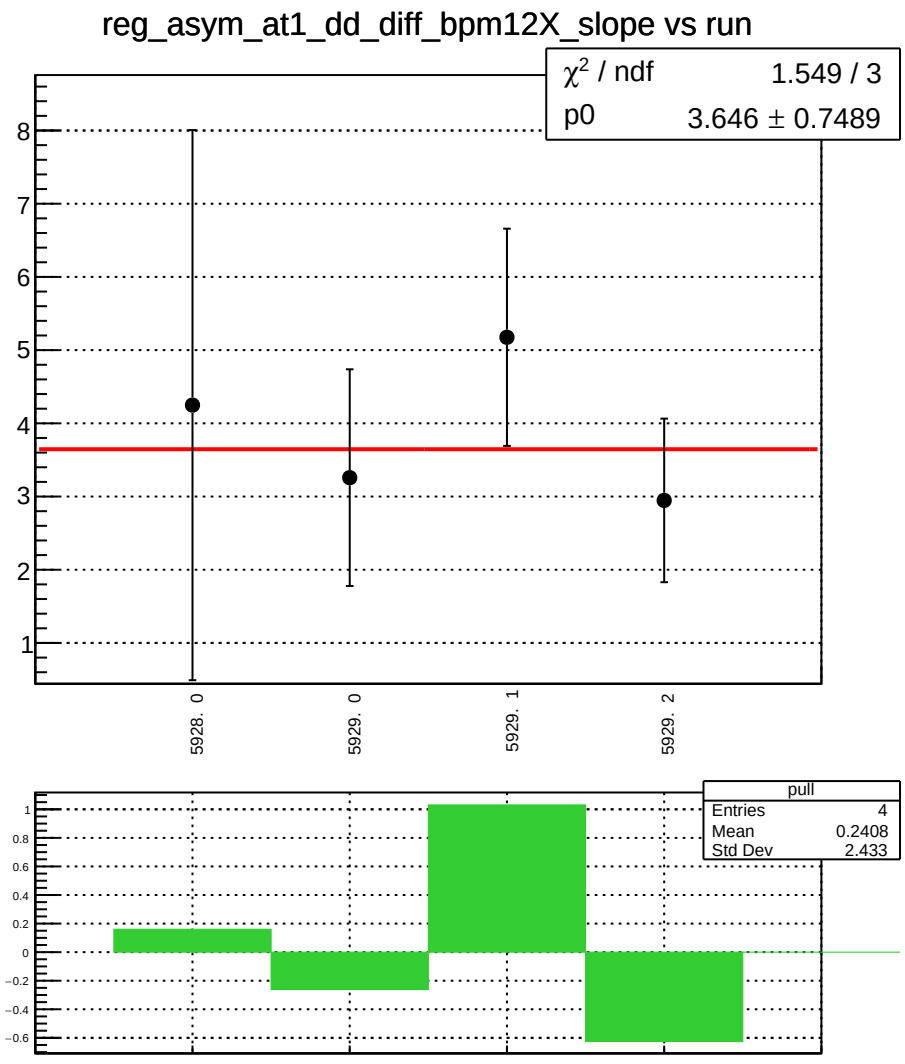

pull1D
Entries 4
Mean −0.06791
Std Dev 1.166
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

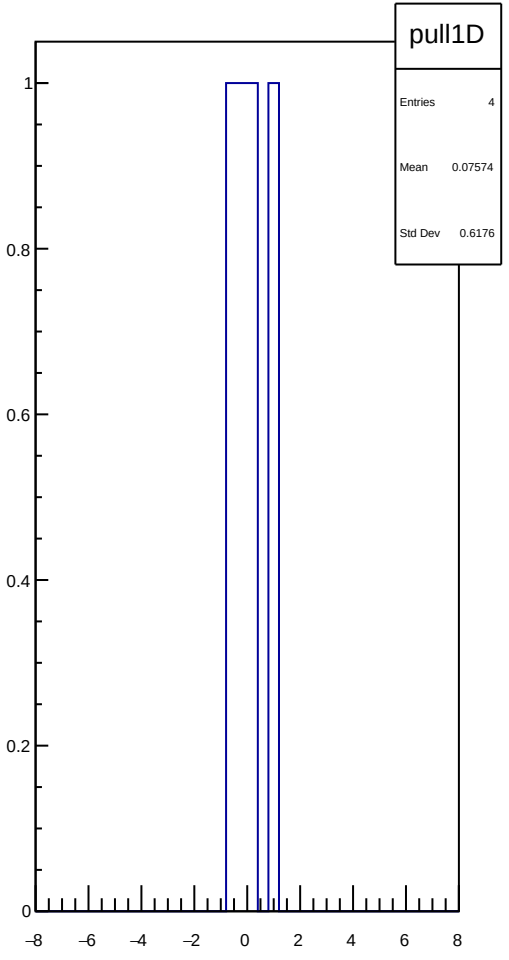

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.849 / 3
p0 −5.278 ± 16.27
40
20
0
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.663
Std Dev 4.708
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

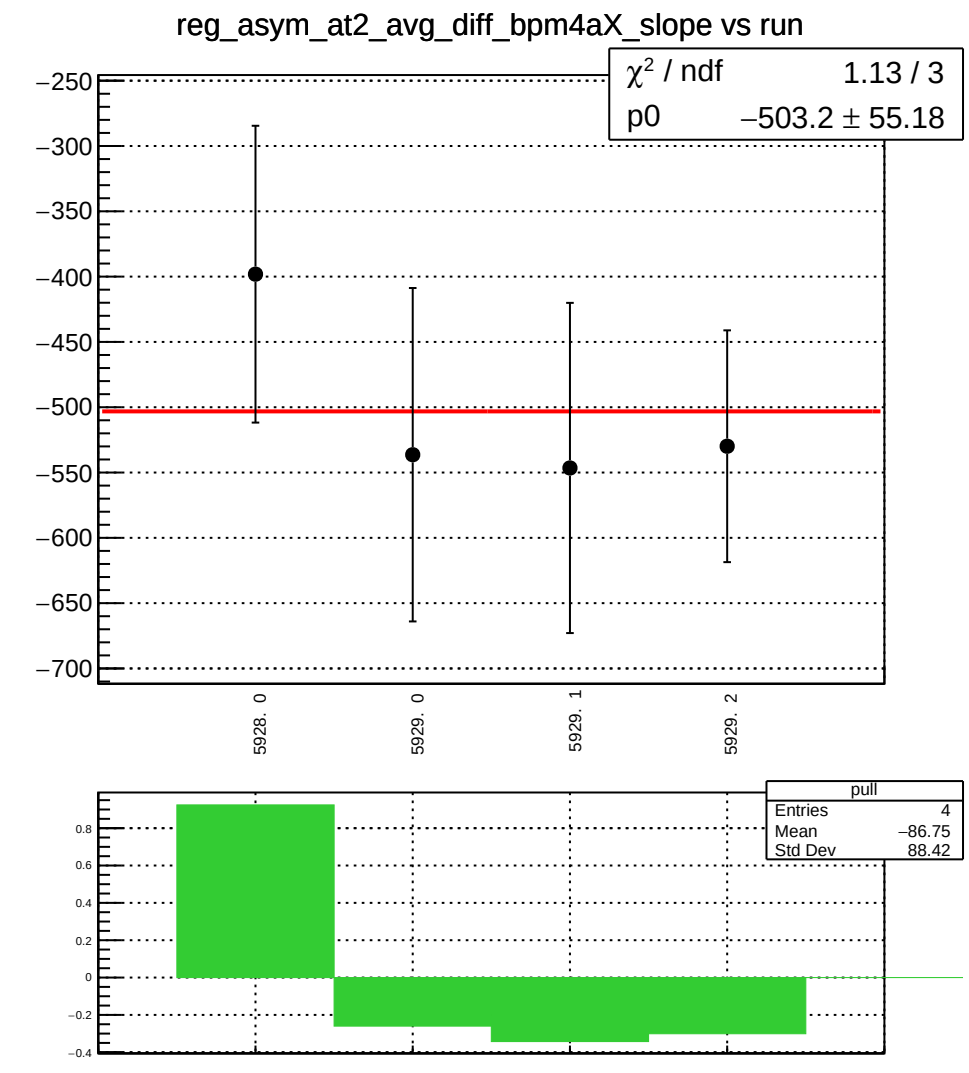

pull1D
Entries 4
Mean −0.1214
Std Dev 0.669
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

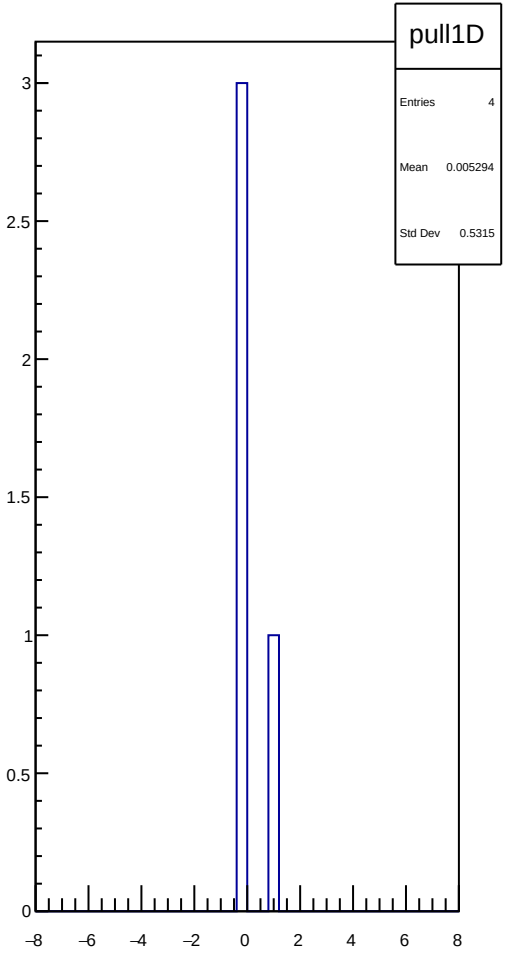

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.325 / 3
p0 6.627 ± 12.57
80
60
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 1.153
Std Dev 3.508
2
1.5
1
0.5
0
−0.5
−1

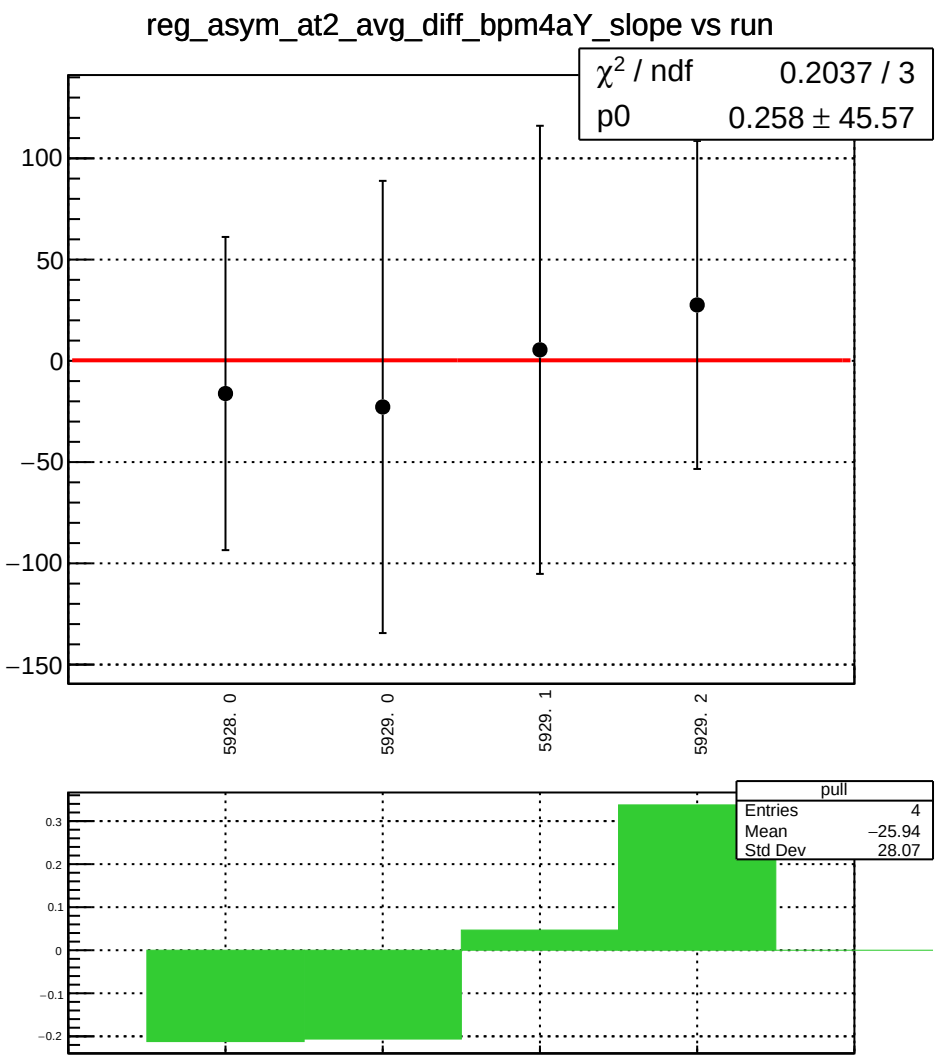

pull1D
Entries 4
Mean 0.05892
Std Dev 1.152
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

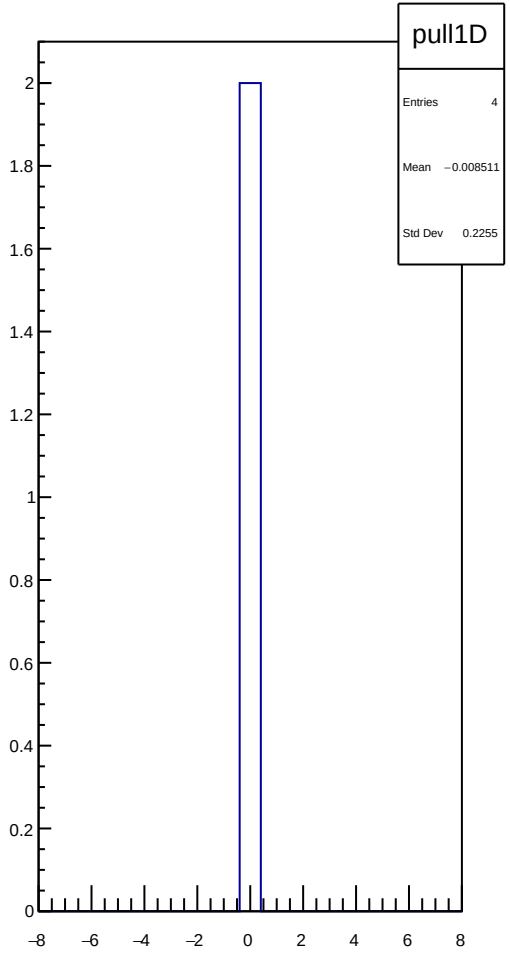

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 1.549 / 3
p0 3.646 ± 0.7489
8
7
6
5
4
3
2
1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 0.2408
Std Dev 2.433
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

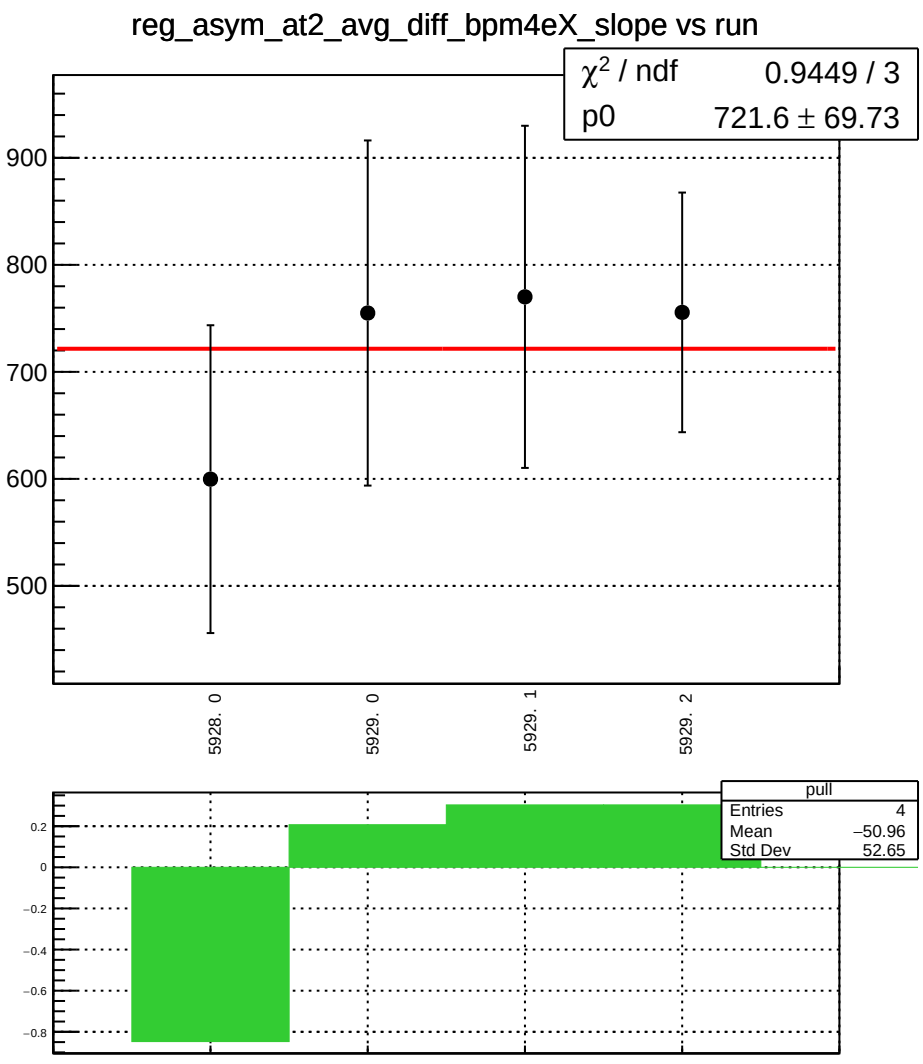

pull1D
Entries 4
Mean 0.07574
Std Dev 0.6176
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

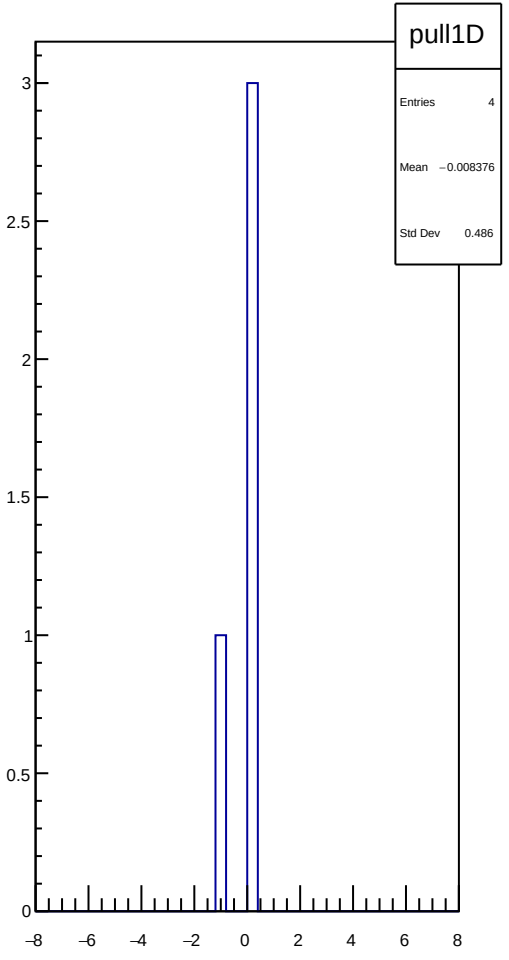

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.13 / 3
p0 −503.2 ± 55.18
−250
−300
−350
−400
−450
−500
−550
−600
−650
−700
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −86.75
Std Dev 88.42
0.8
0.6
0.4
0.2
0
−0.2
−0.4

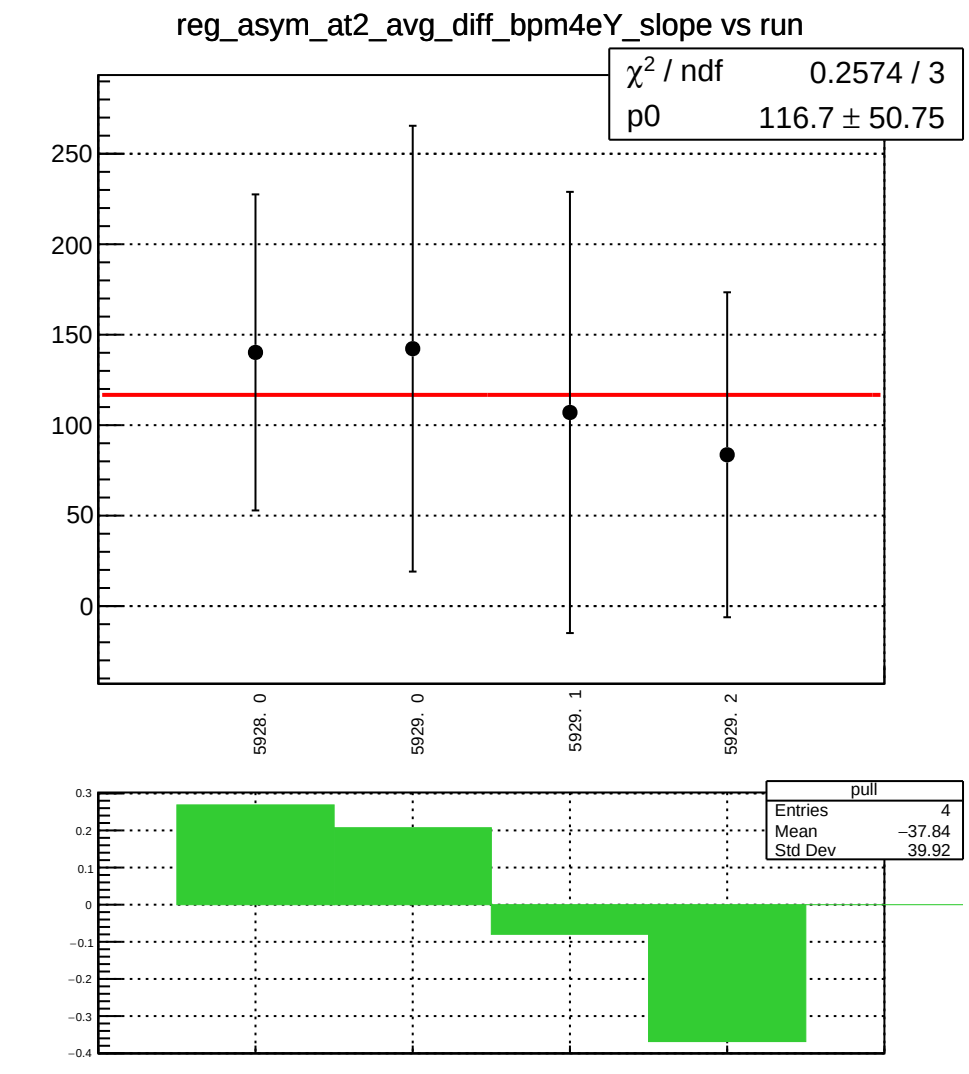

pull1D
Entries 4
Mean 0.005294
Std Dev 0.5315
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

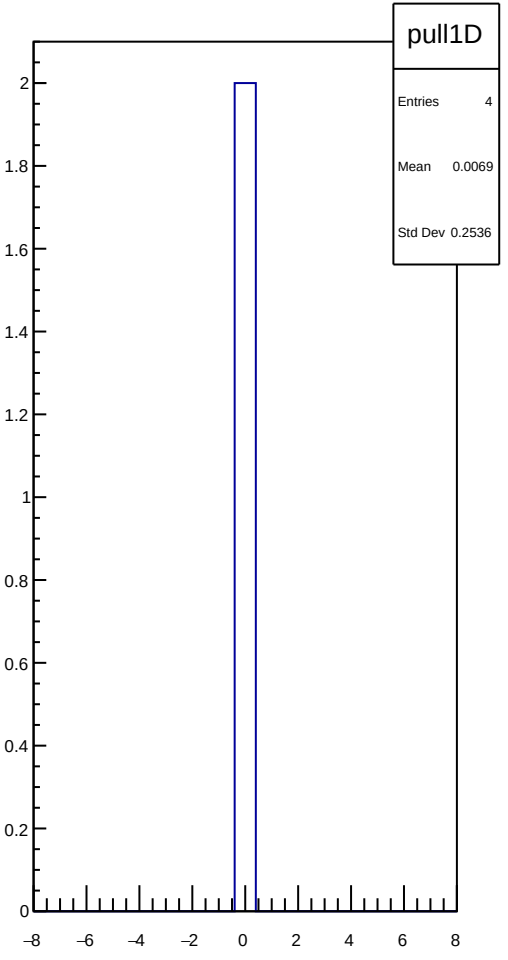

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2037 / 3
p0 0.258 ± 45.57
100
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −25.94
Std Dev 28.07
0.3
0.2
0.1
0
−0.1
−0.2

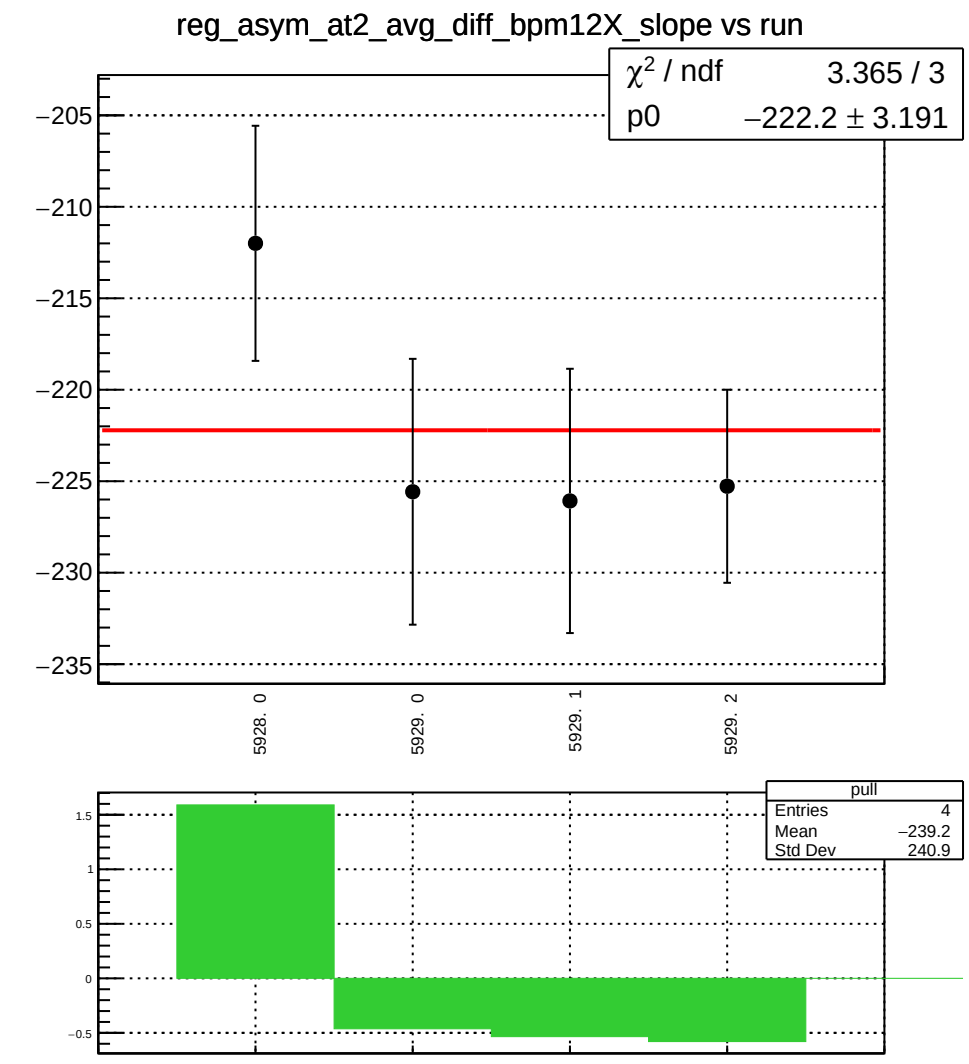

pull1D
Entries 4
Mean −0.008511
Std Dev 0.2255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

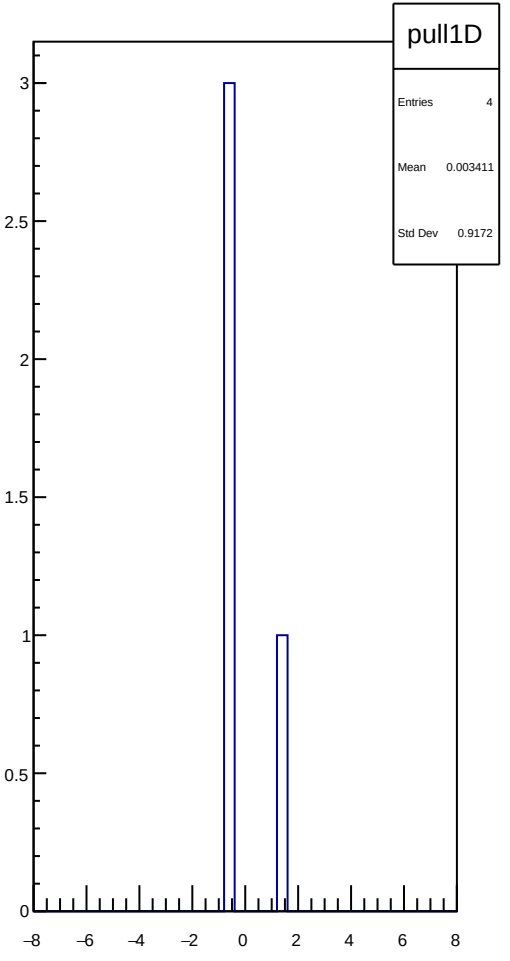

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9449 / 3
p0 721.6 ± 69.73
900
800
700
600
500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −50.96
Std Dev 52.65
0.2
0
−0.2
−0.4
−0.6
−0.8

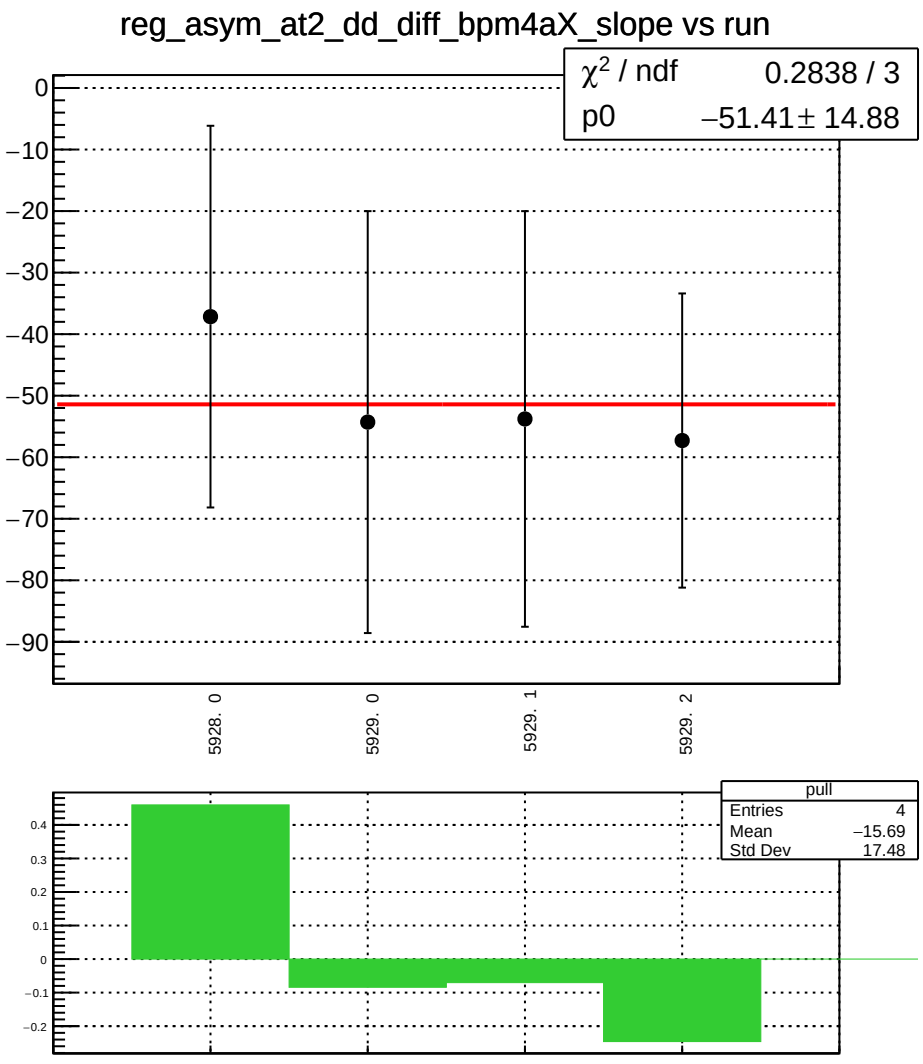

pull1D
Entries 4
Mean −0.008376
Std Dev 0.486
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

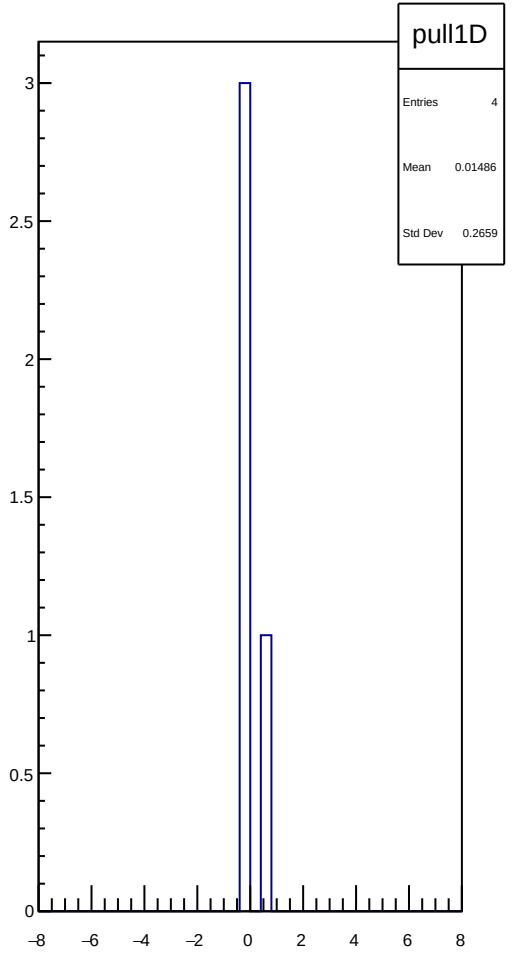

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2574 / 3
p0 116.7 ± 50.75
250
200
150
100
50
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −37.84
Std Dev 39.92
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

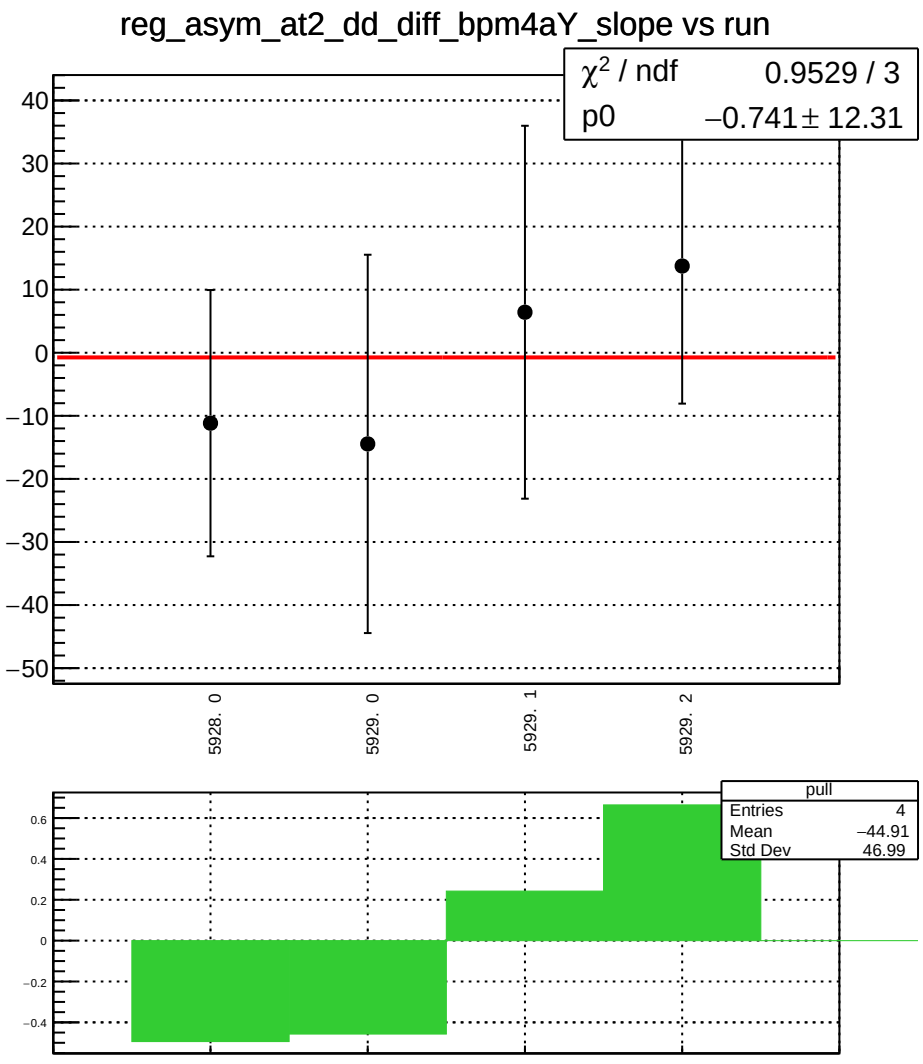

pull1D
Entries 4
Mean 0.0069
Std Dev 0.2536
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

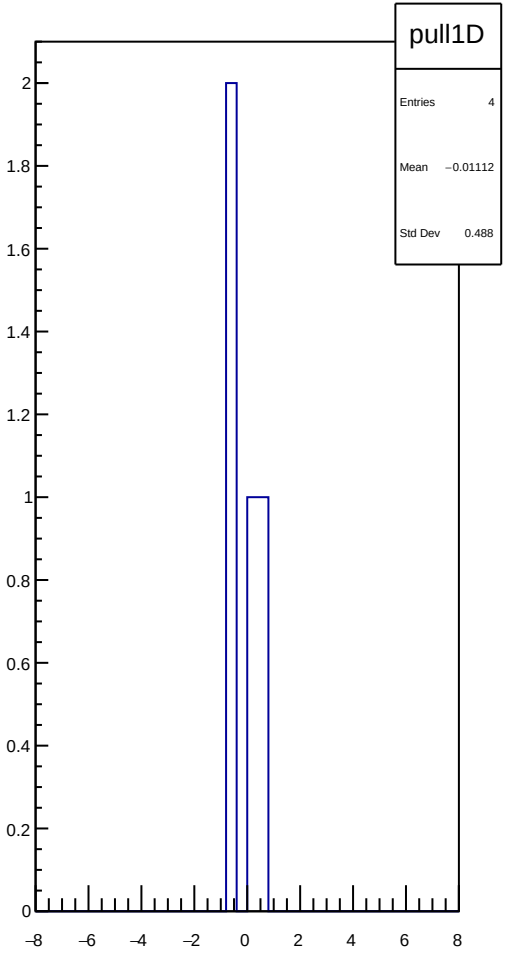

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.365 / 3
p0 −222.2 ± 3.191
−205
−210
−215
−220
−225
−230
−235
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −239.2
Std Dev 240.9
1.5
1
0.5
0
−0.5

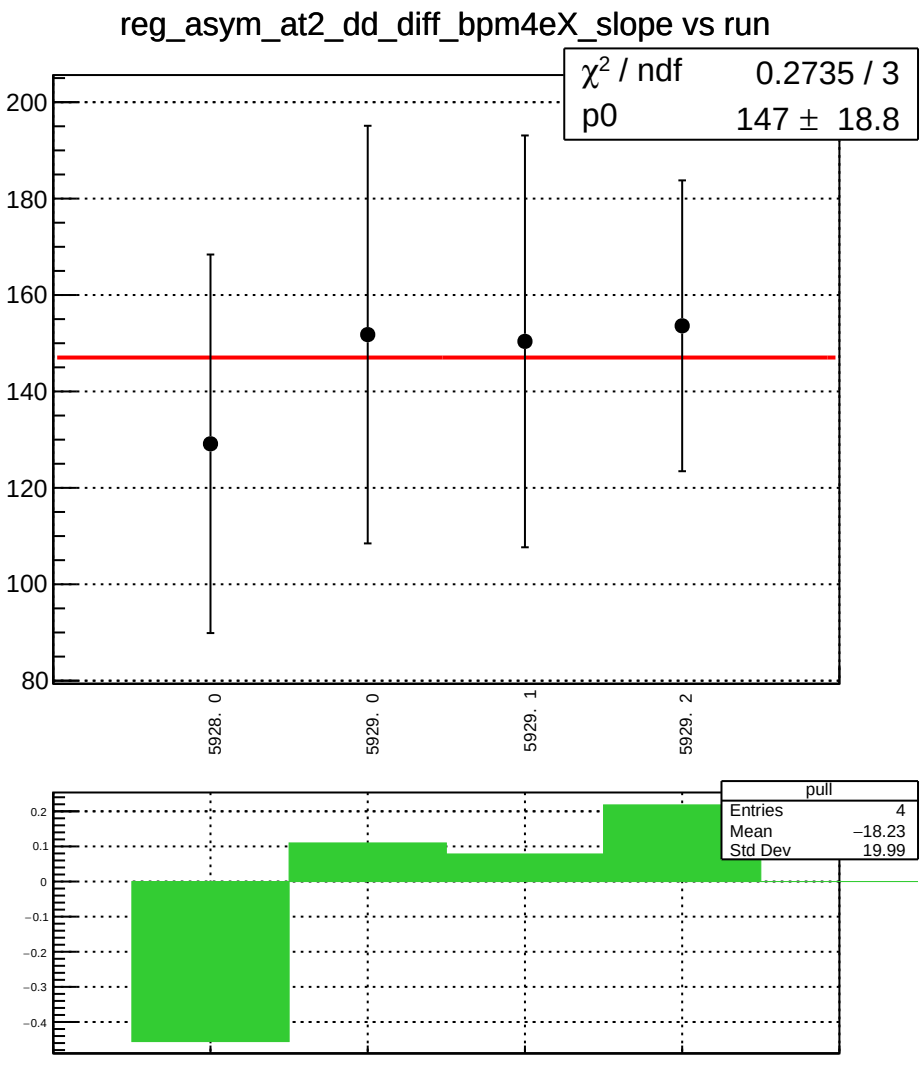

pull1D
Entries 4
Mean 0.003411
Std Dev 0.9172
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

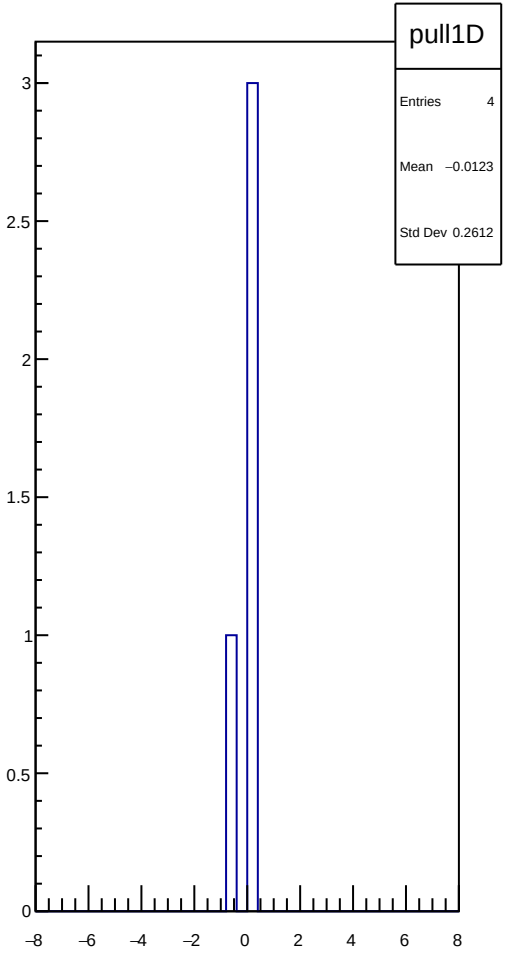

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.2838 / 3
p0 −51.41 ± 14.88
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −15.69
Std Dev 17.48
0.4
0.3
0.2
0.1
0
−0.1
−0.2

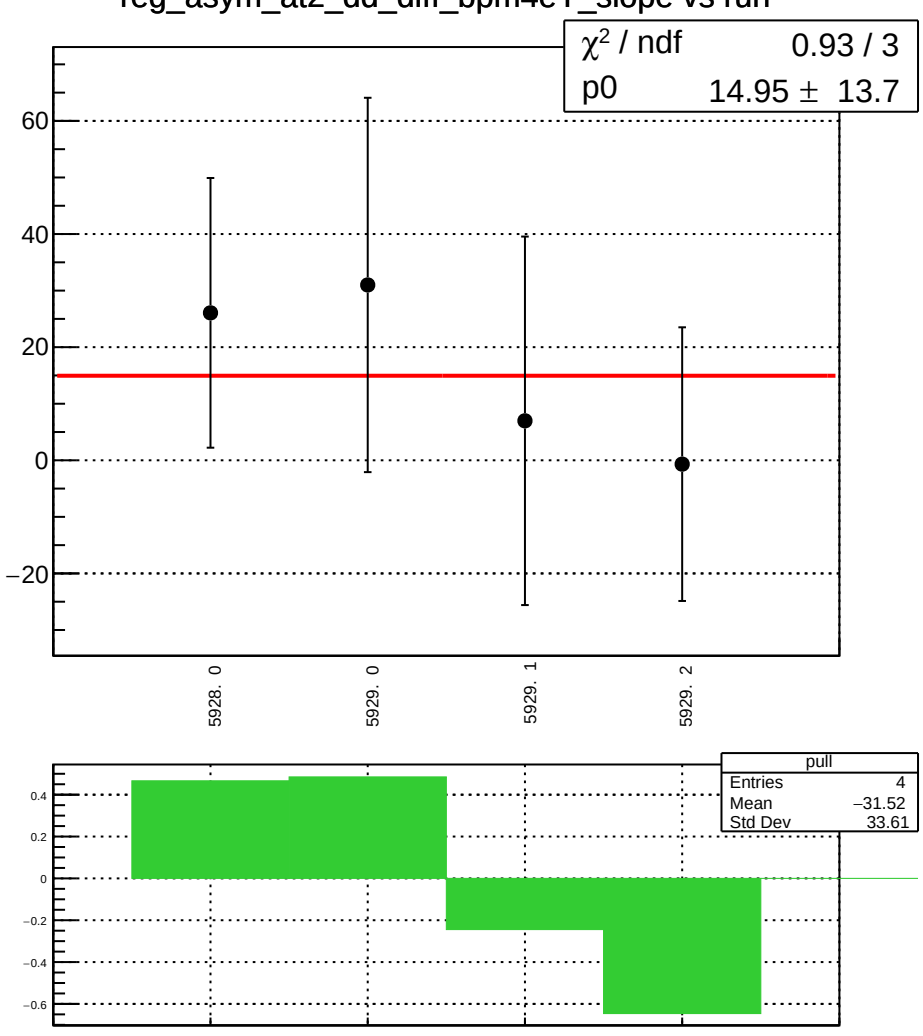

pull1D
Entries 4
Mean 0.01486
Std Dev 0.2659
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

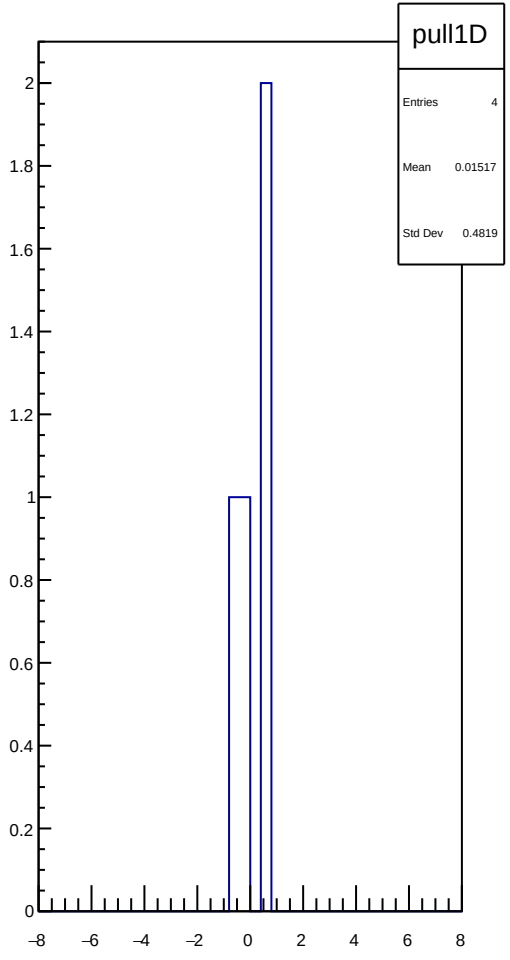

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9529 / 3
p0 −0.741 ± 12.31
40
30
20
10
0
−10
−20
−30
−40
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −44.91
Std Dev 46.99
0.6
0.4
0.2
0
−0.2
−0.4

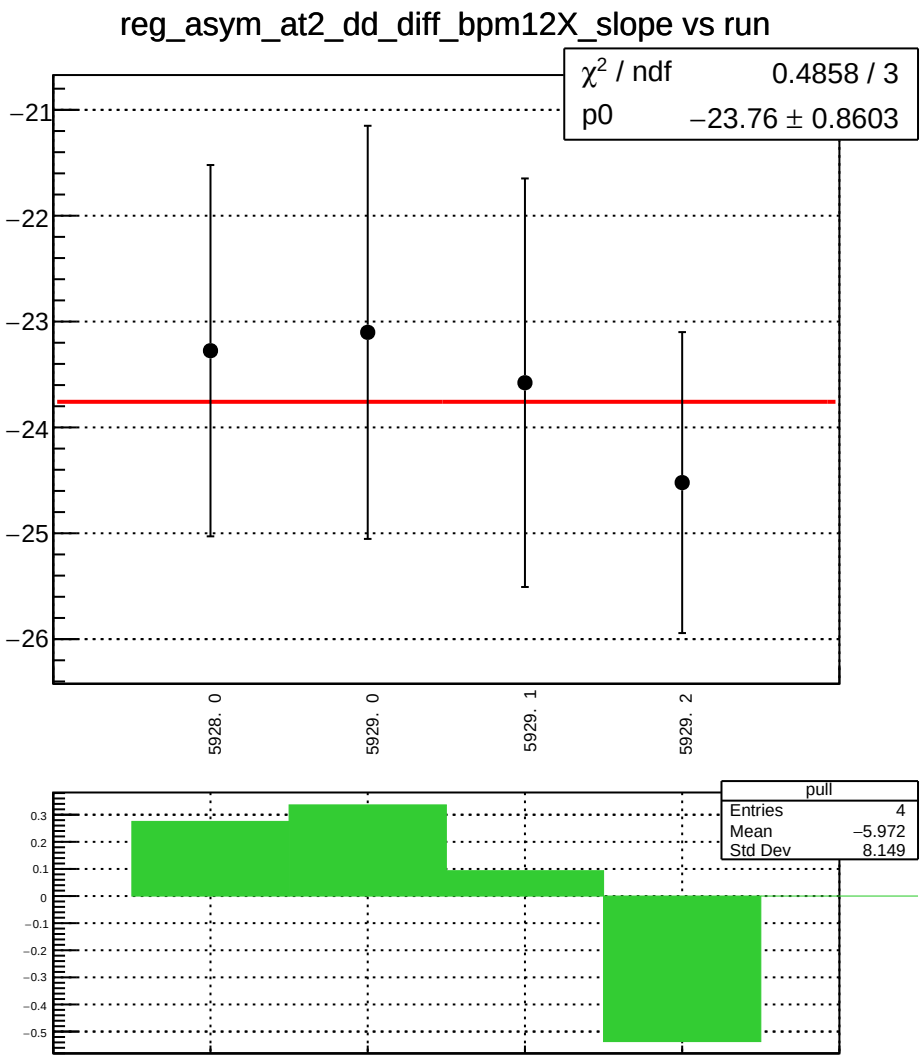

pull1D
Entries 4
Mean −0.01112
Std Dev 0.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

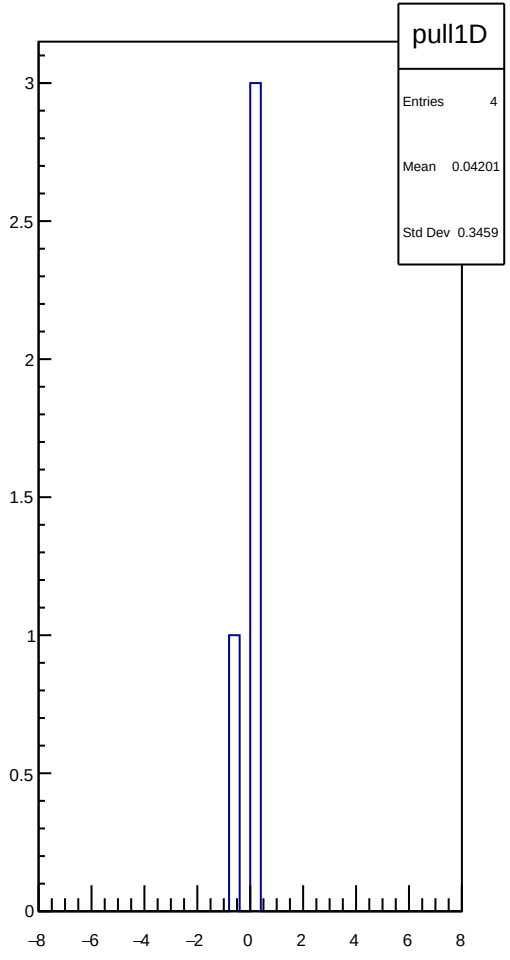

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2735 / 3
p0 147 ± 18.8
200
180
160
140
120
100
80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −18.23
Std Dev 19.99
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

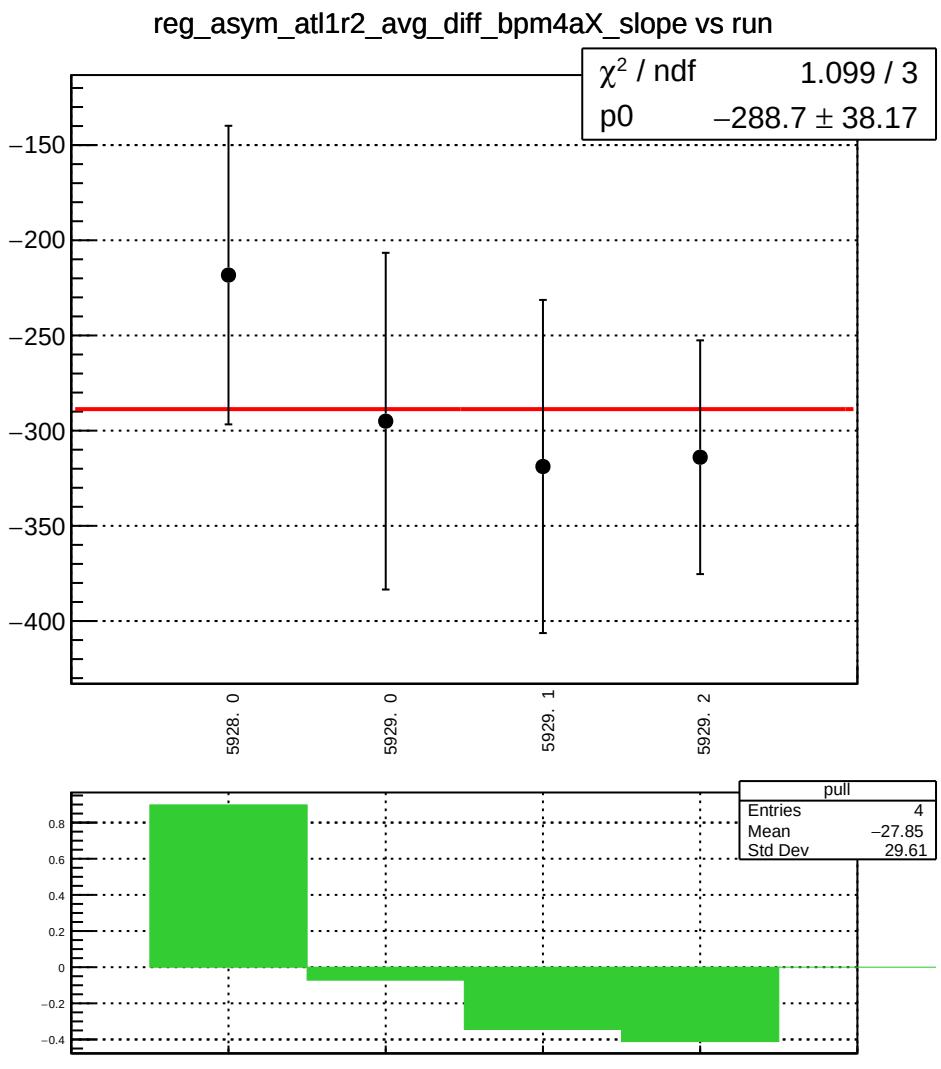

pull1D
Entries 4
Mean −0.0123
Std Dev 0.2612
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

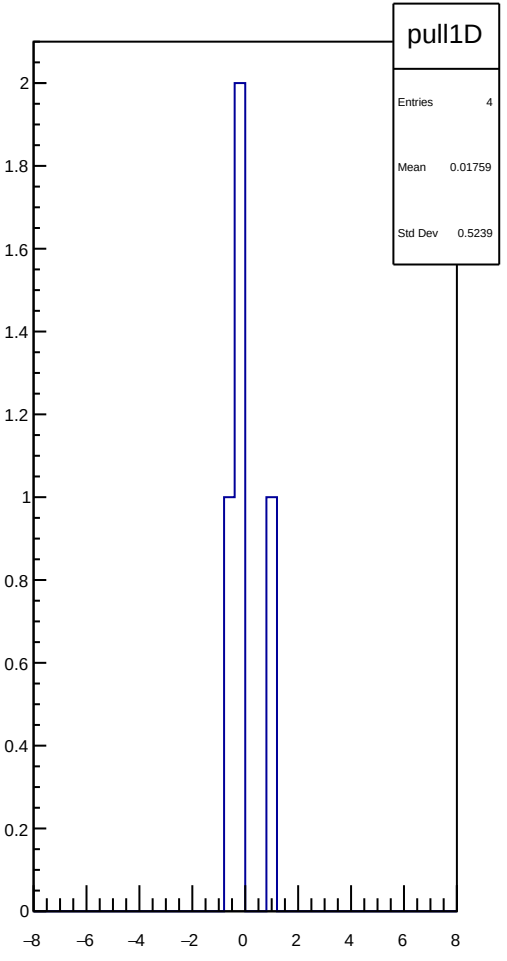

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.93 / 3
p0 14.95 ± 13.7
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −31.52
Std Dev 33.61
0.4
0.2
0
−0.2
−0.4
−0.6

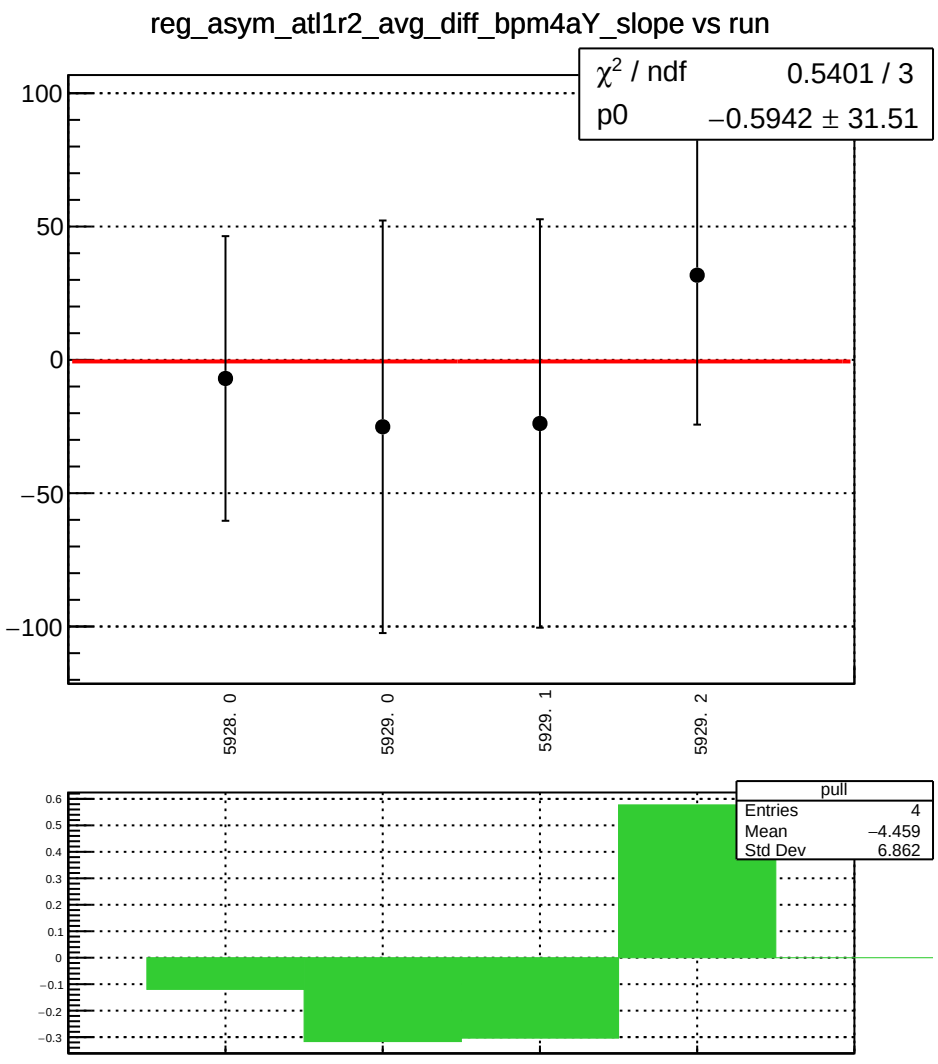

pull1D
Entries 4
Mean 0.01517
Std Dev 0.4819
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

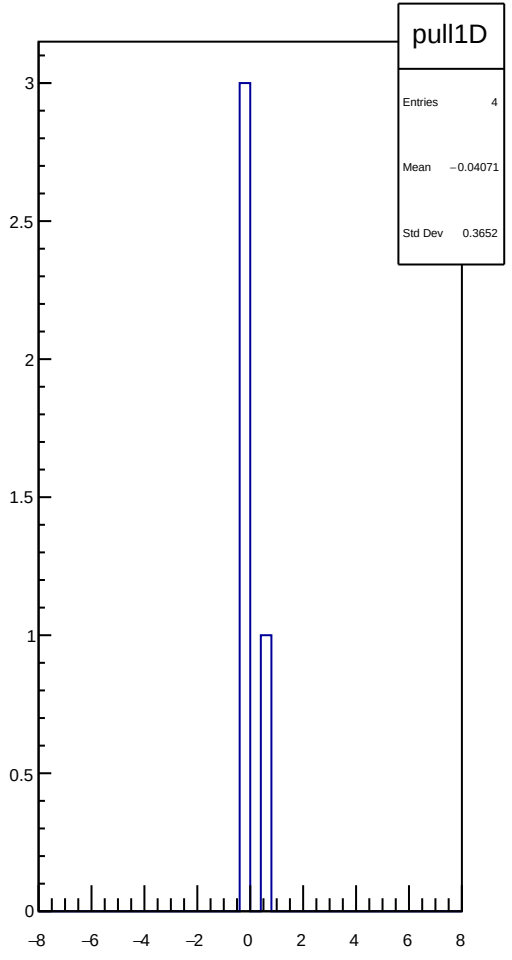

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4858 / 3
p0 −23.76 ± 0.8603
−21
−22
−23
−24
−25
−26
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.972
Std Dev 8.149
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

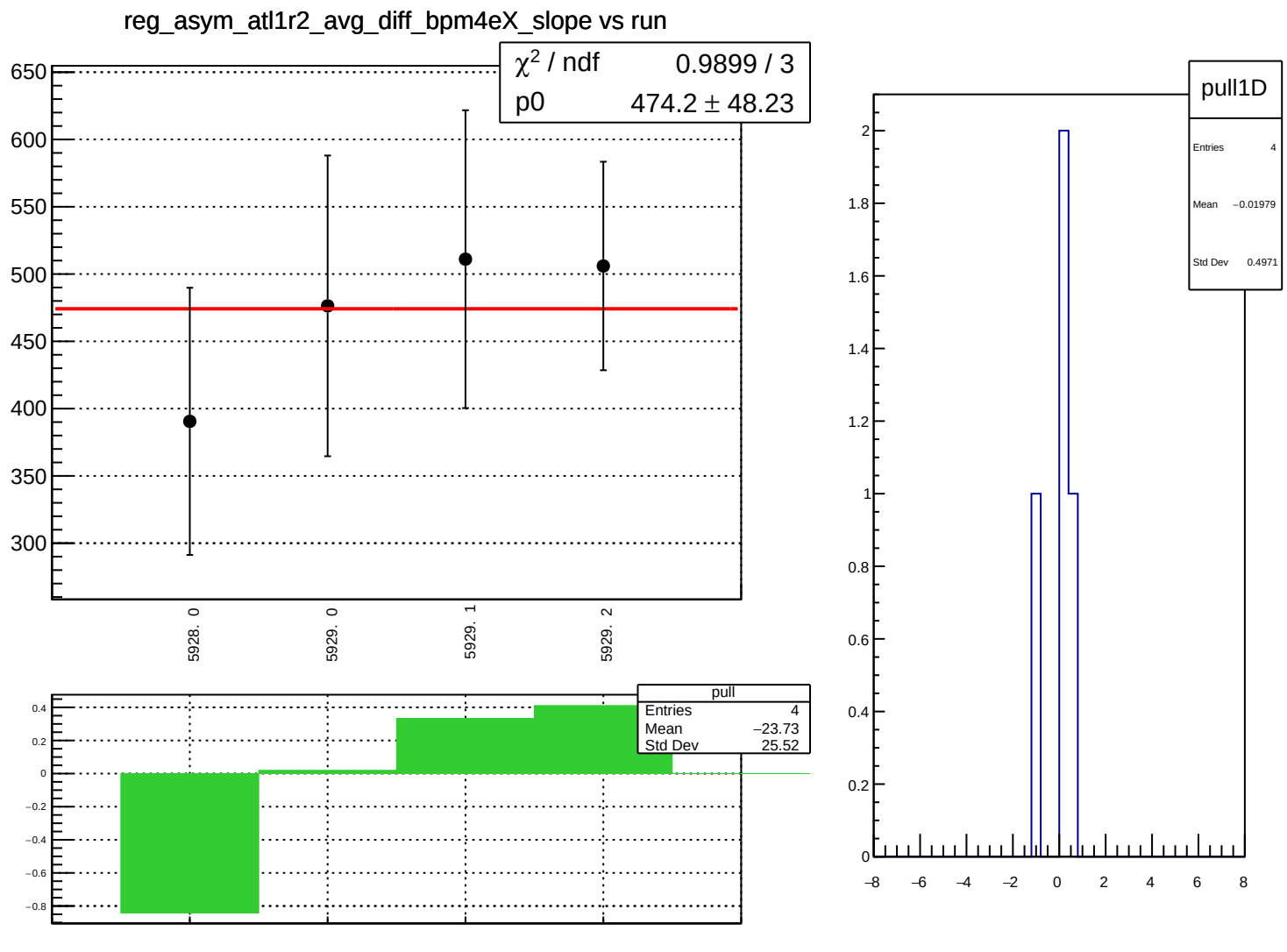

pull1D
Entries 4
Mean 0.04201
Std Dev 0.3459
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

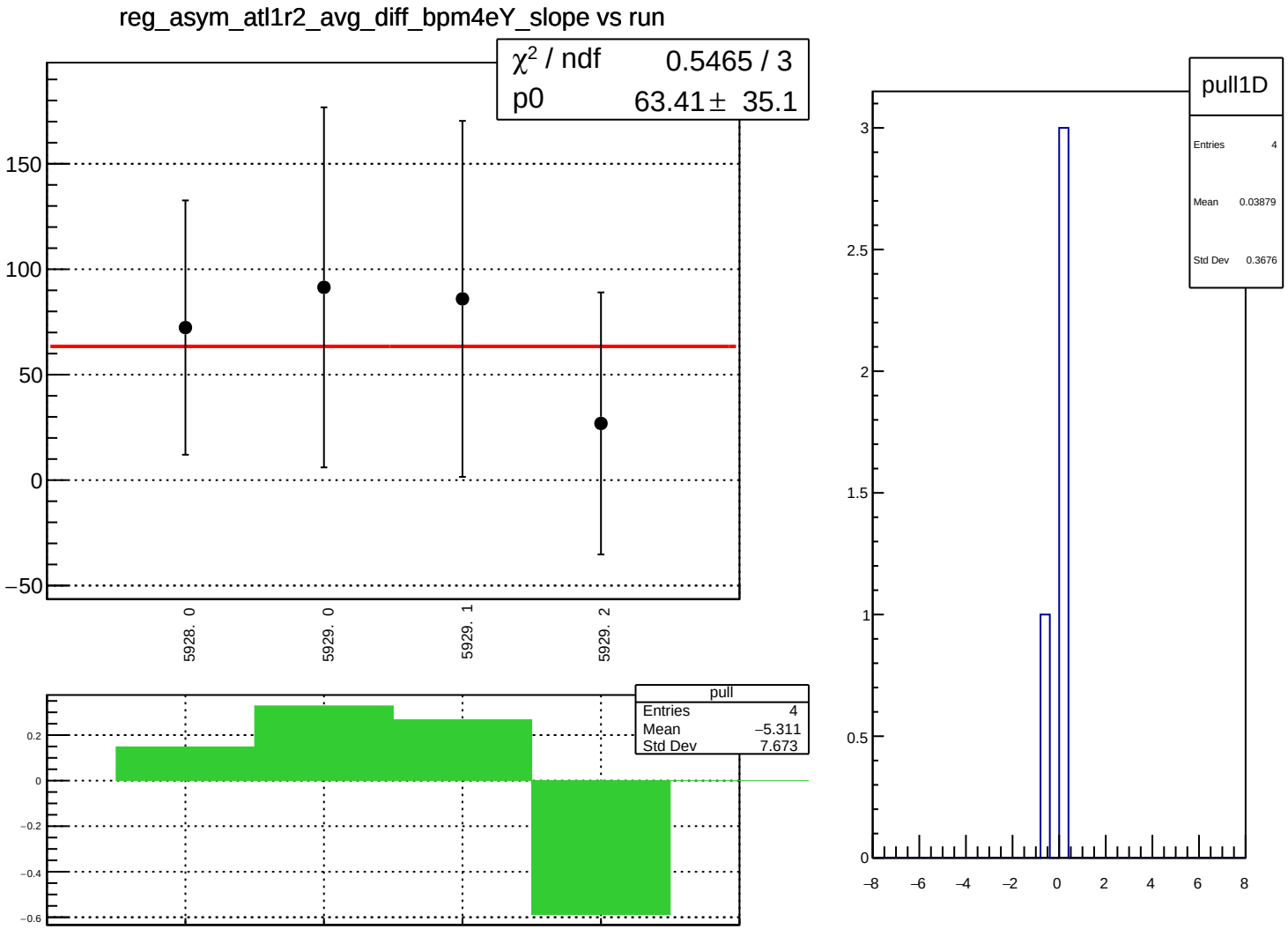

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.099 / 3
p0 −288.7 ± 38.17
−150
−200
−250
−300
−350
−400
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −27.85
Std Dev 29.61
0.8
0.6
0.4
0.2
0
−0.2
−0.4

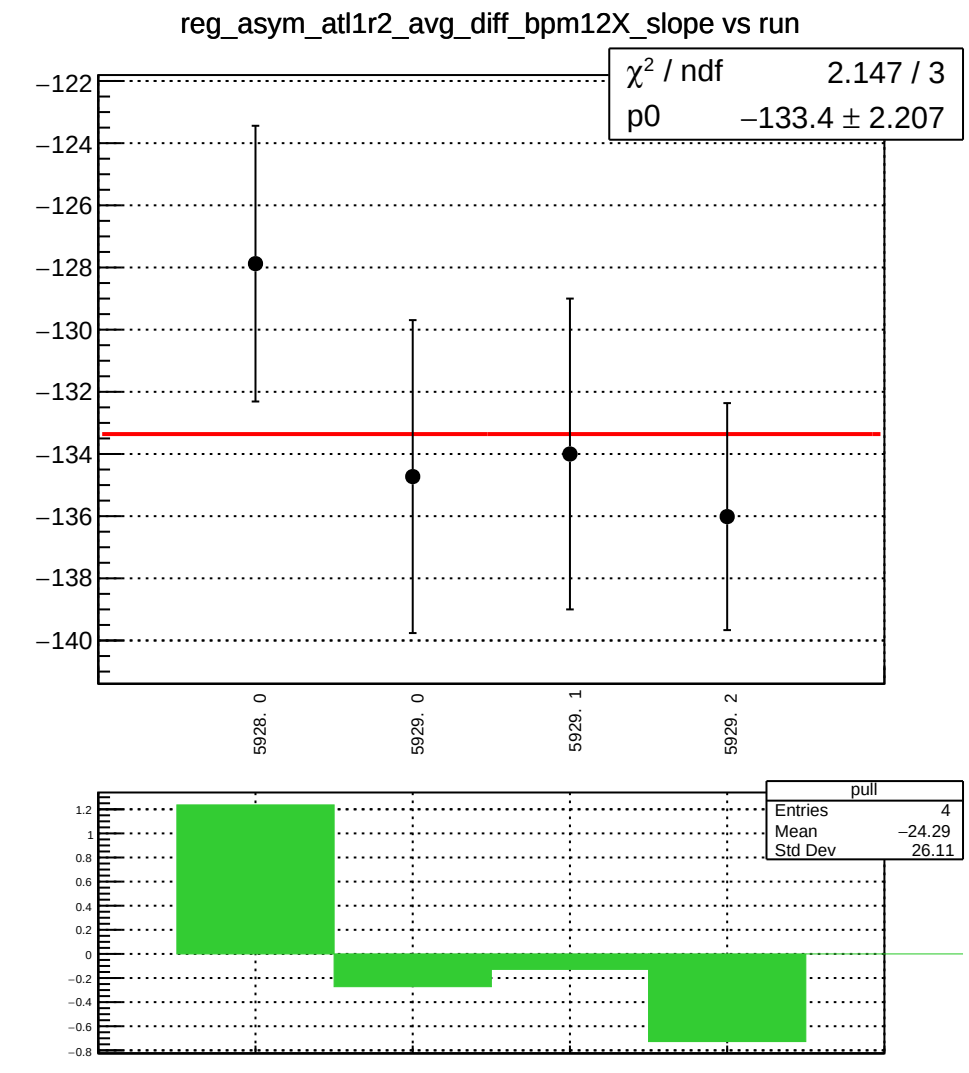

pull1D
Entries 4
Mean 0.01759
Std Dev 0.5239
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

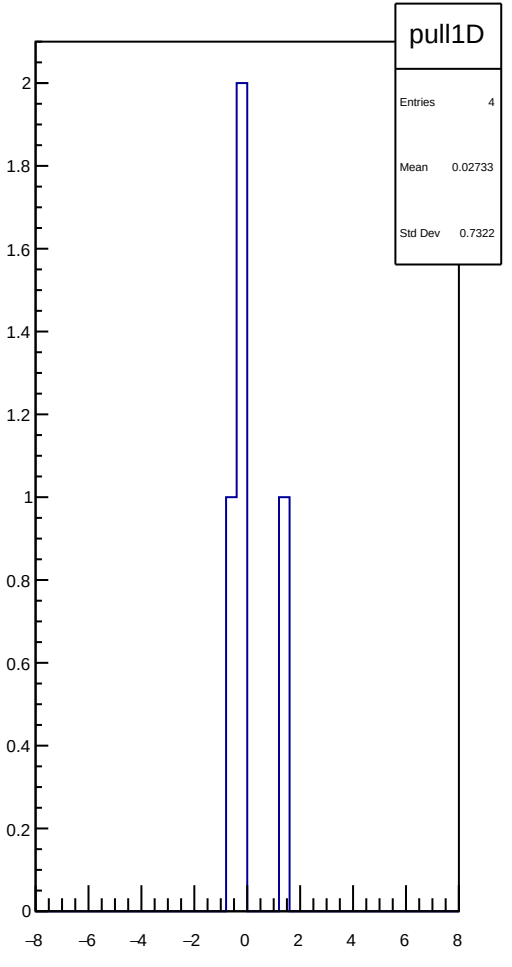

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5401 / 3
p0 −0.5942 ± 31.51
100
50
0
−50
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.459
Std Dev 6.862
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

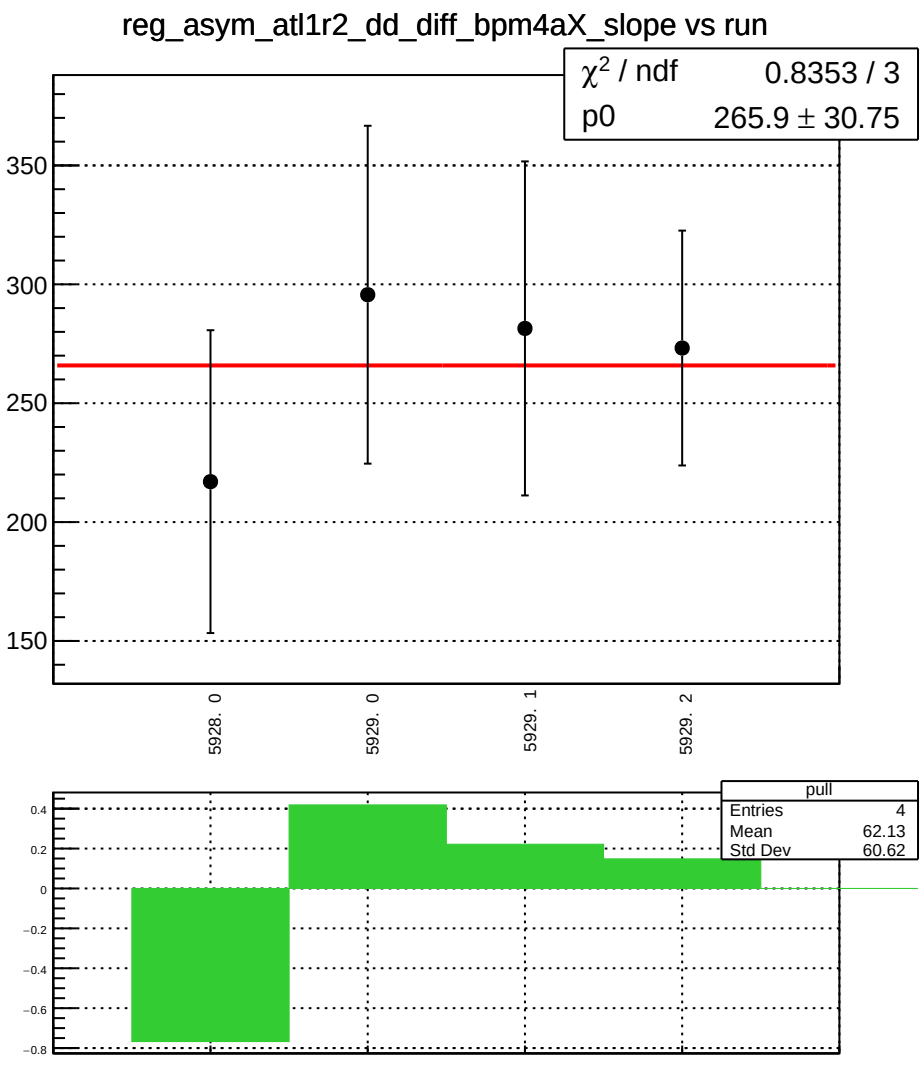

pull1D
Entries 4
Mean −0.04071
Std Dev 0.3652
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

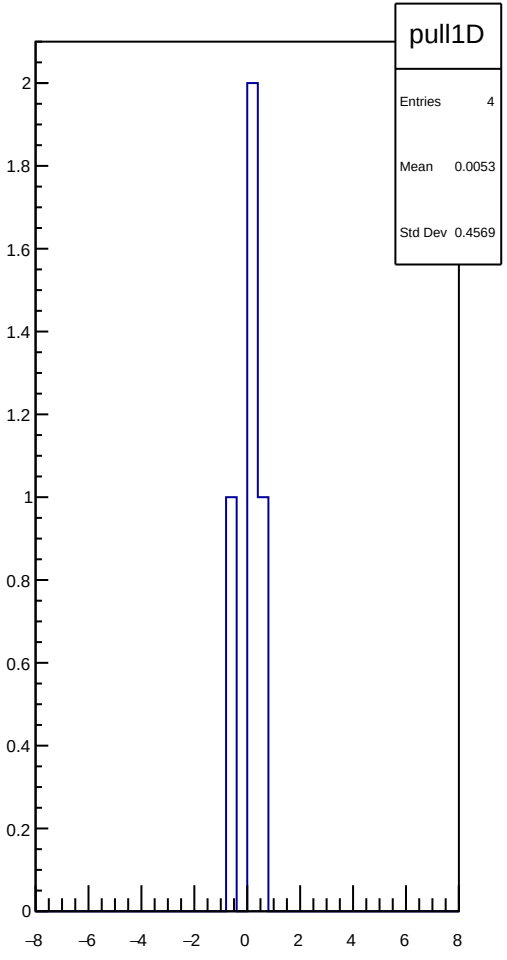

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9899 / 3
p0 474.2 ± 48.23
650
600
550
500
450
400
350
300
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −23.73
Std Dev 25.52
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.01979
Std Dev 0.4971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

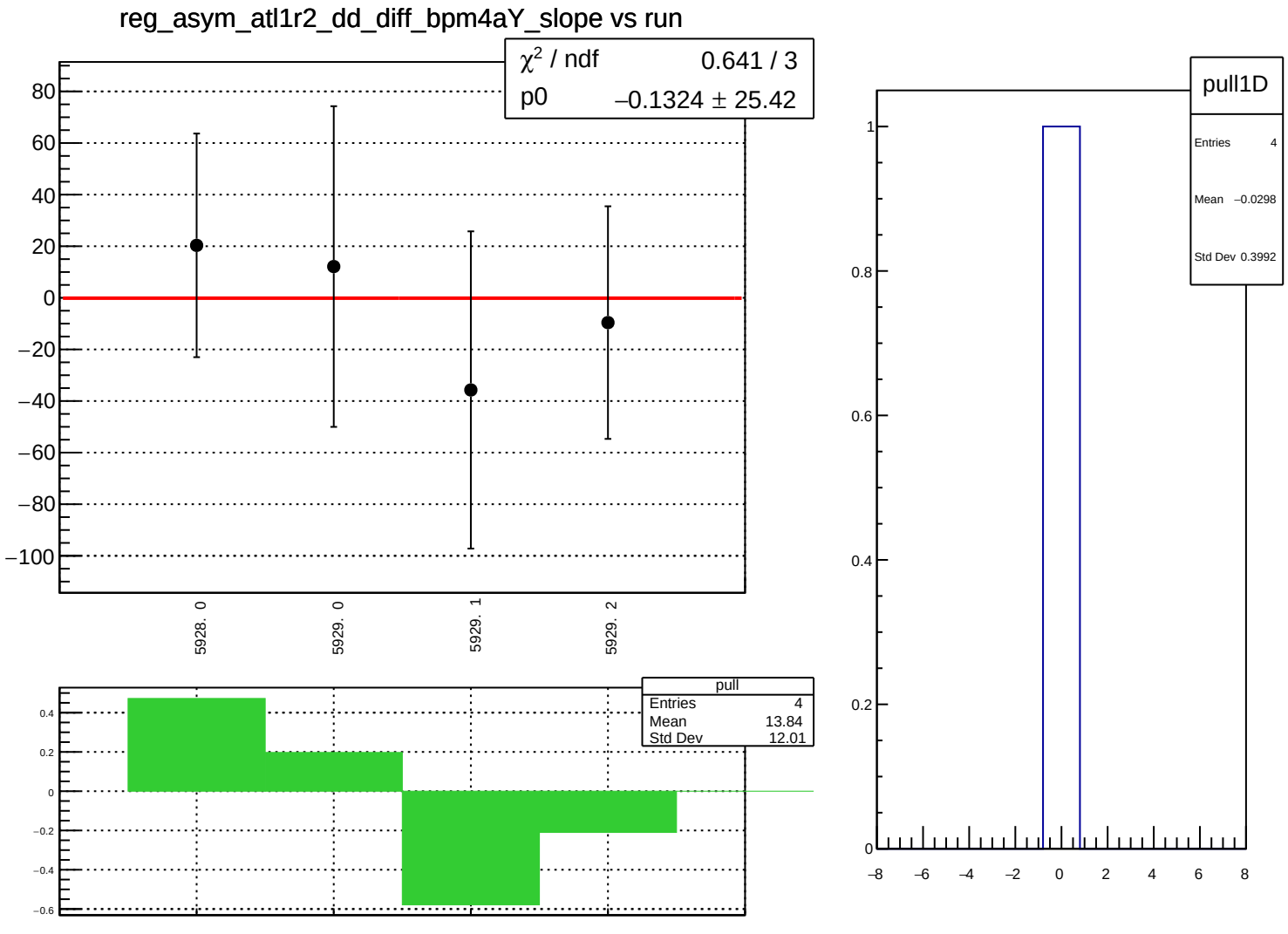

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5465 / 3
p0 63.41 ± 35.1
150
100
50
0
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.311
Std Dev 7.673
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.03879
Std Dev 0.3676
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

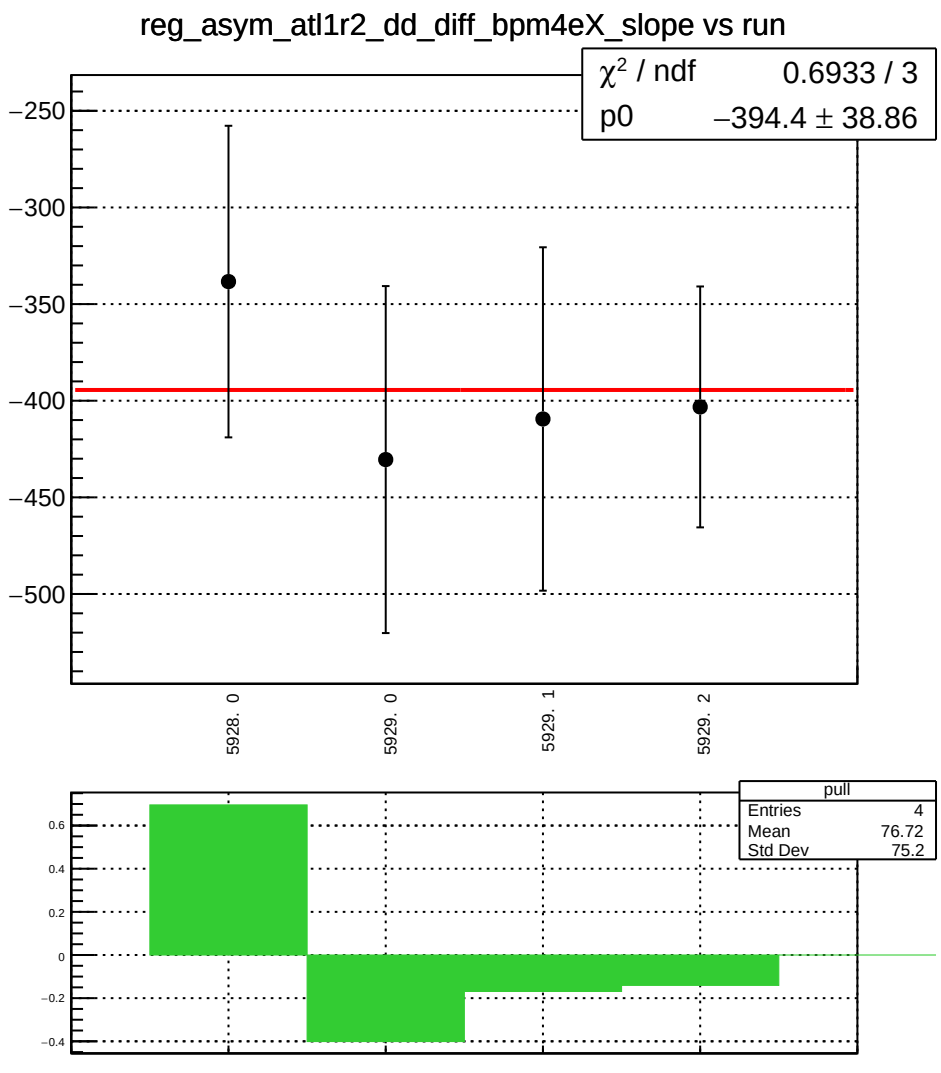

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 2.147 / 3
p0 −133.4 ± 2.207
−122
−124
−126
−128
−130
−132
−134
−136
−138
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −24.29
Std Dev 26.11
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

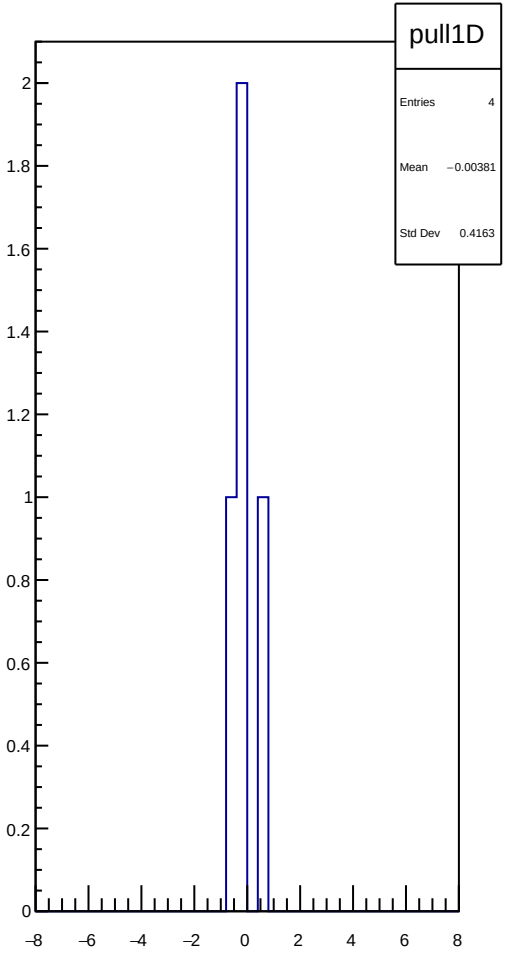

pull1D
Entries 4
Mean 0.02733
Std Dev 0.7322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

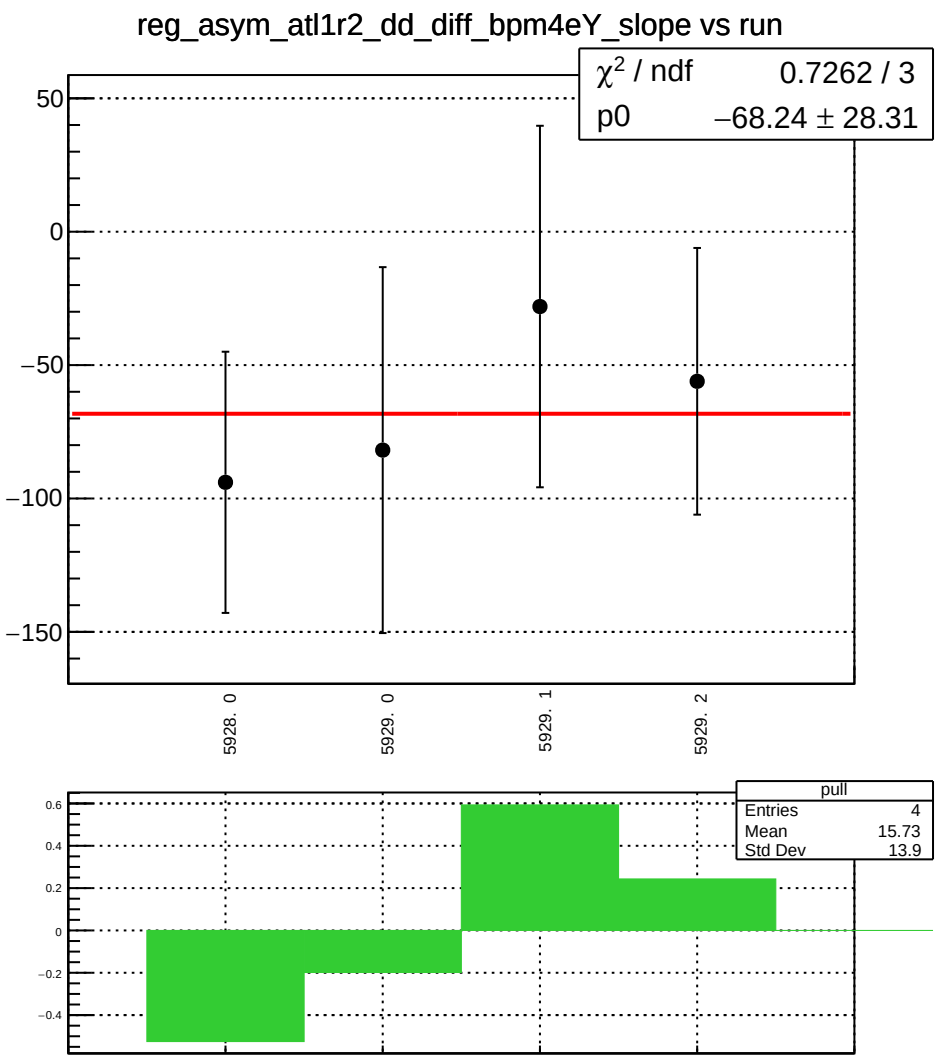

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.8353 / 3
p0 265.9 ± 30.75
350
300
250
200
150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 62.13
Std Dev 60.62
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

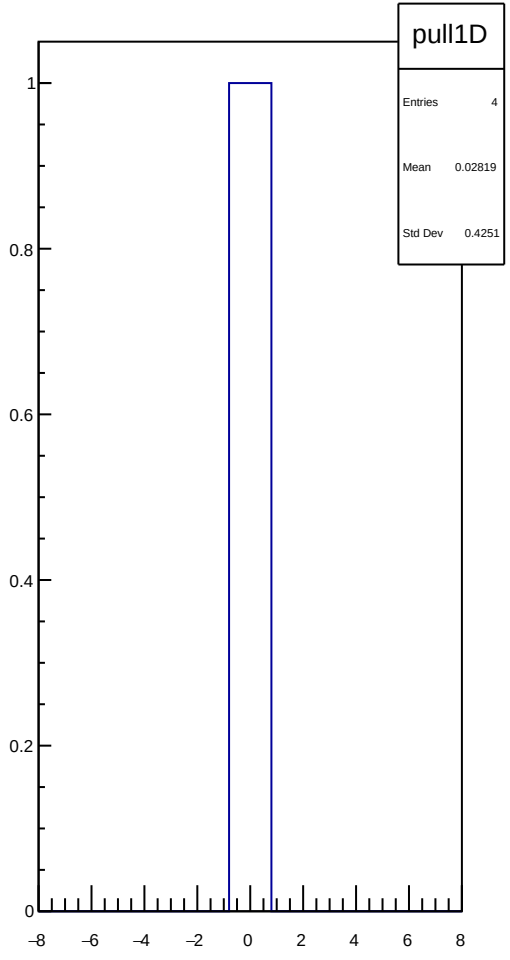

pull1D
Entries 4
Mean 0.0053
Std Dev 0.4569
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

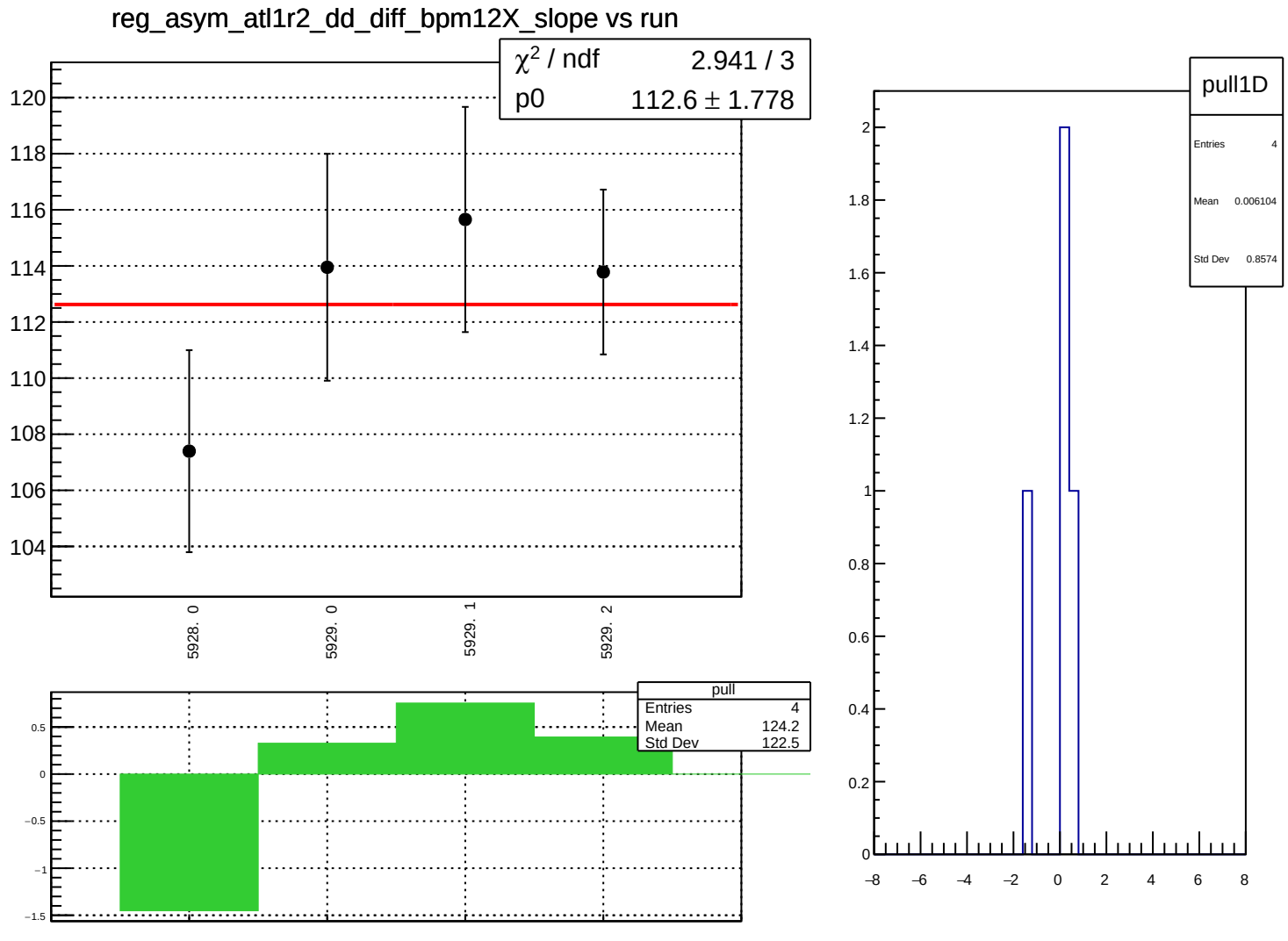

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.641 / 3
p0 −0.1324 ± 25.42
80
60
40
20
0
−20
−40
−60
−80
−100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 13.84
Std Dev 12.01
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.0298
Std Dev 0.3992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

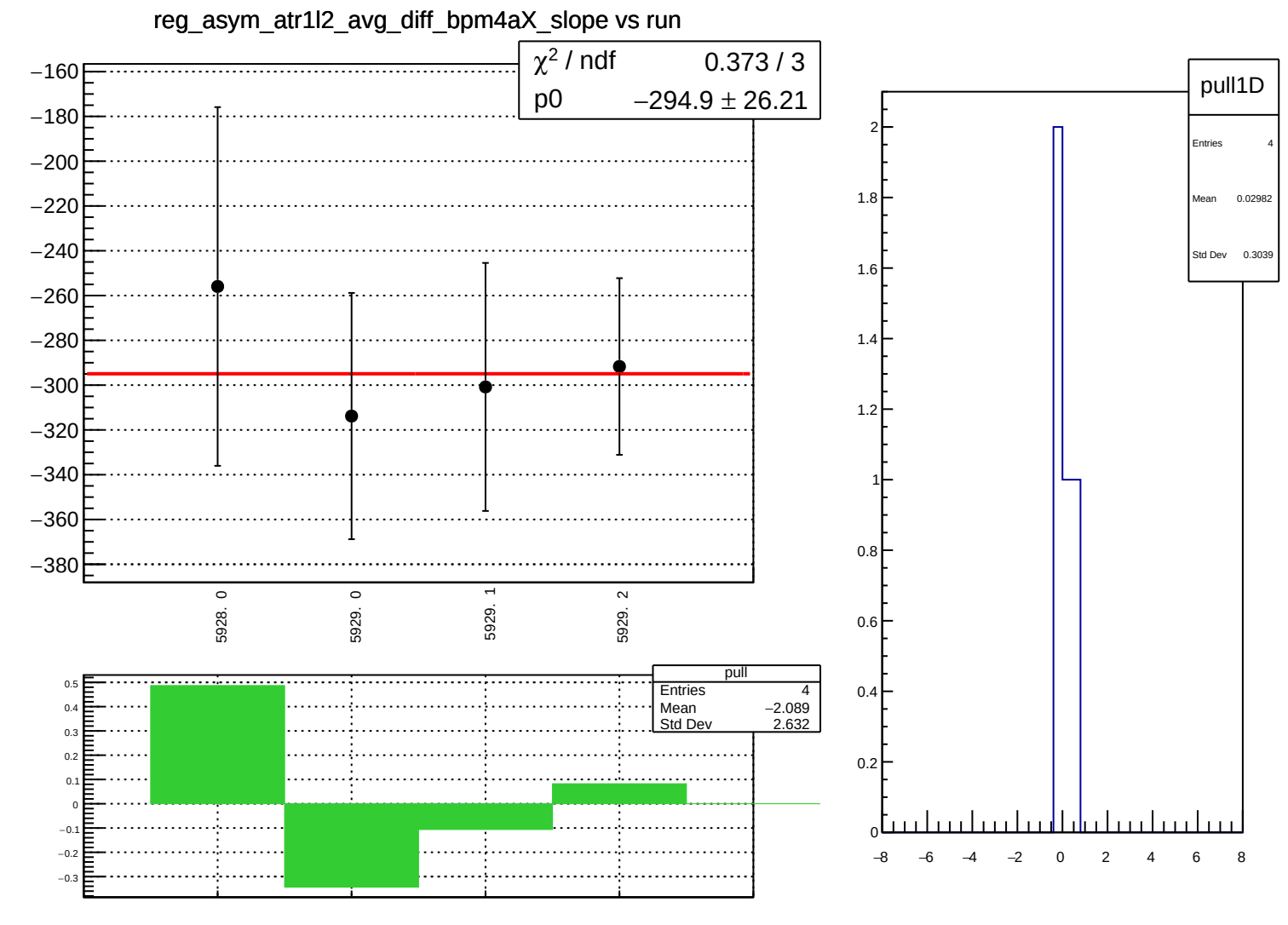

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6933 / 3
p0 −394.4 ± 38.86
−250
−300
−350
−400
−450
−500
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 76.72
Std Dev 75.2
0.6
0.4
0.2
0
−0.2
−0.4

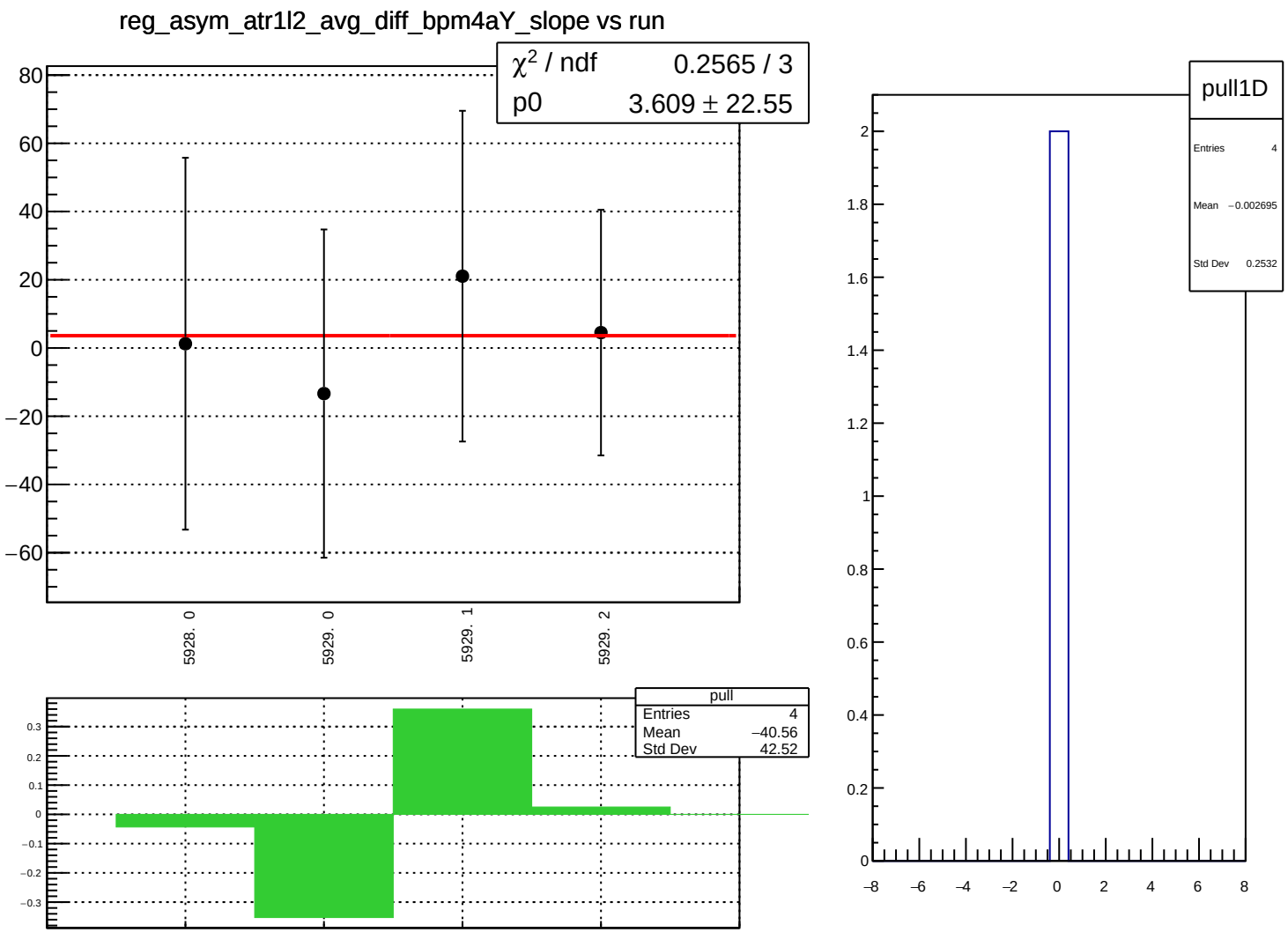

pull1D
Entries 4
Mean −0.00381
Std Dev 0.4163
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

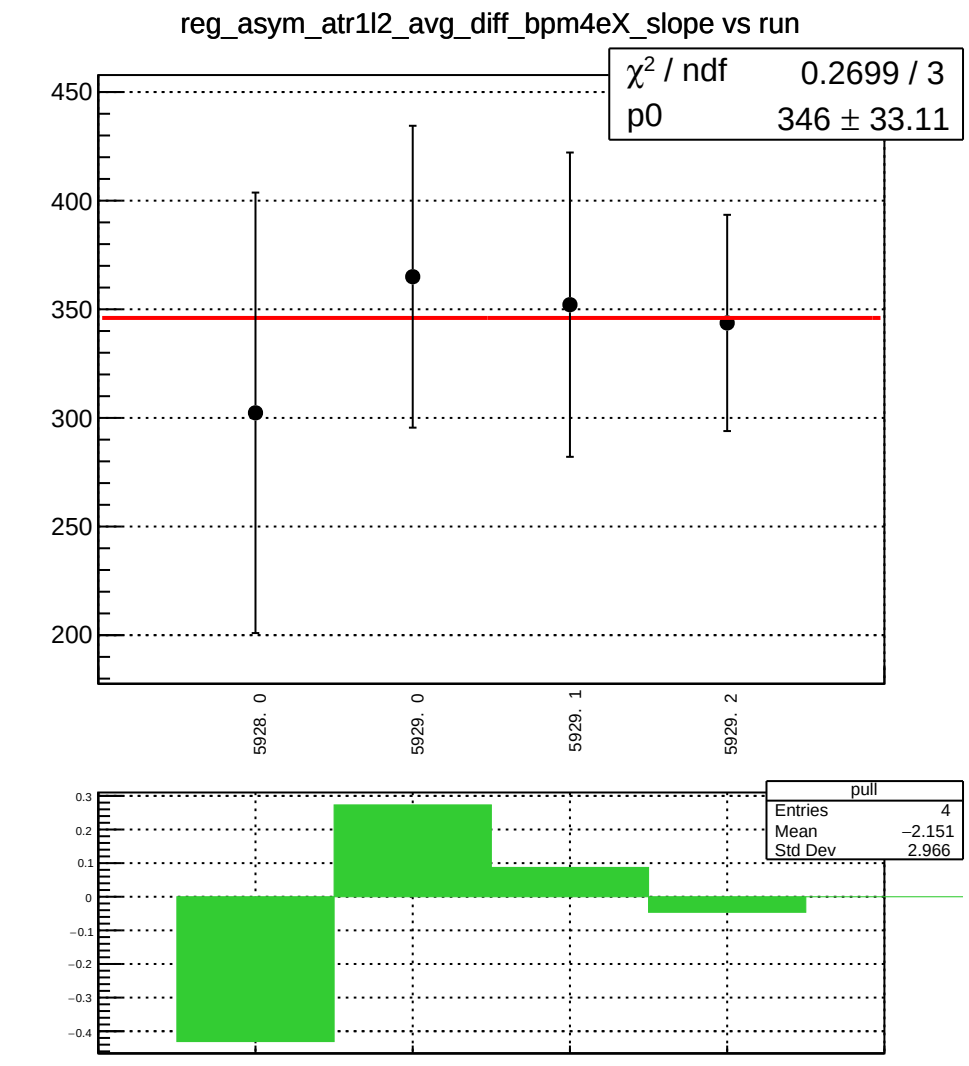

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7262 / 3
p0 −68.24 ± 28.31
50
0
−50
−100
−150
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 15.73
Std Dev 13.9
0.6
0.4
0.2
0
−0.2
−0.4

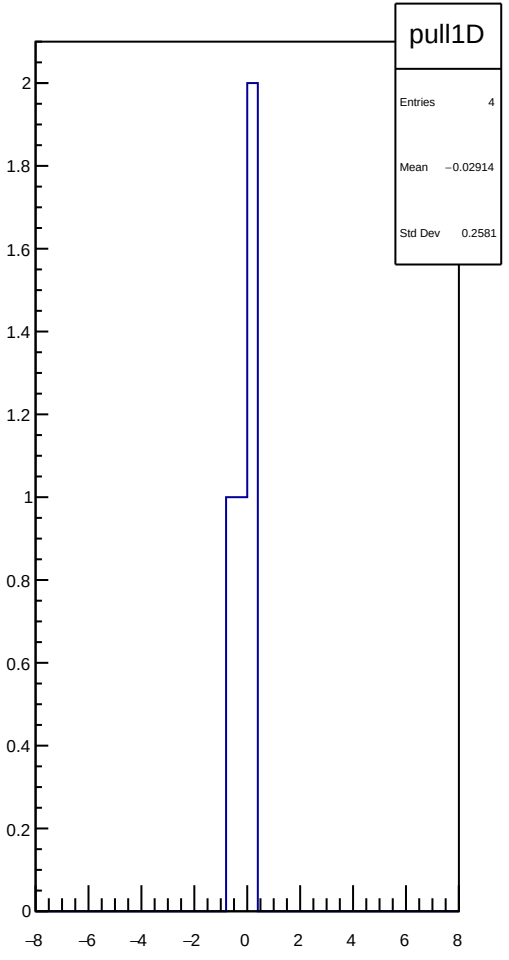

pull1D
Entries 4
Mean 0.02819
Std Dev 0.4251
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

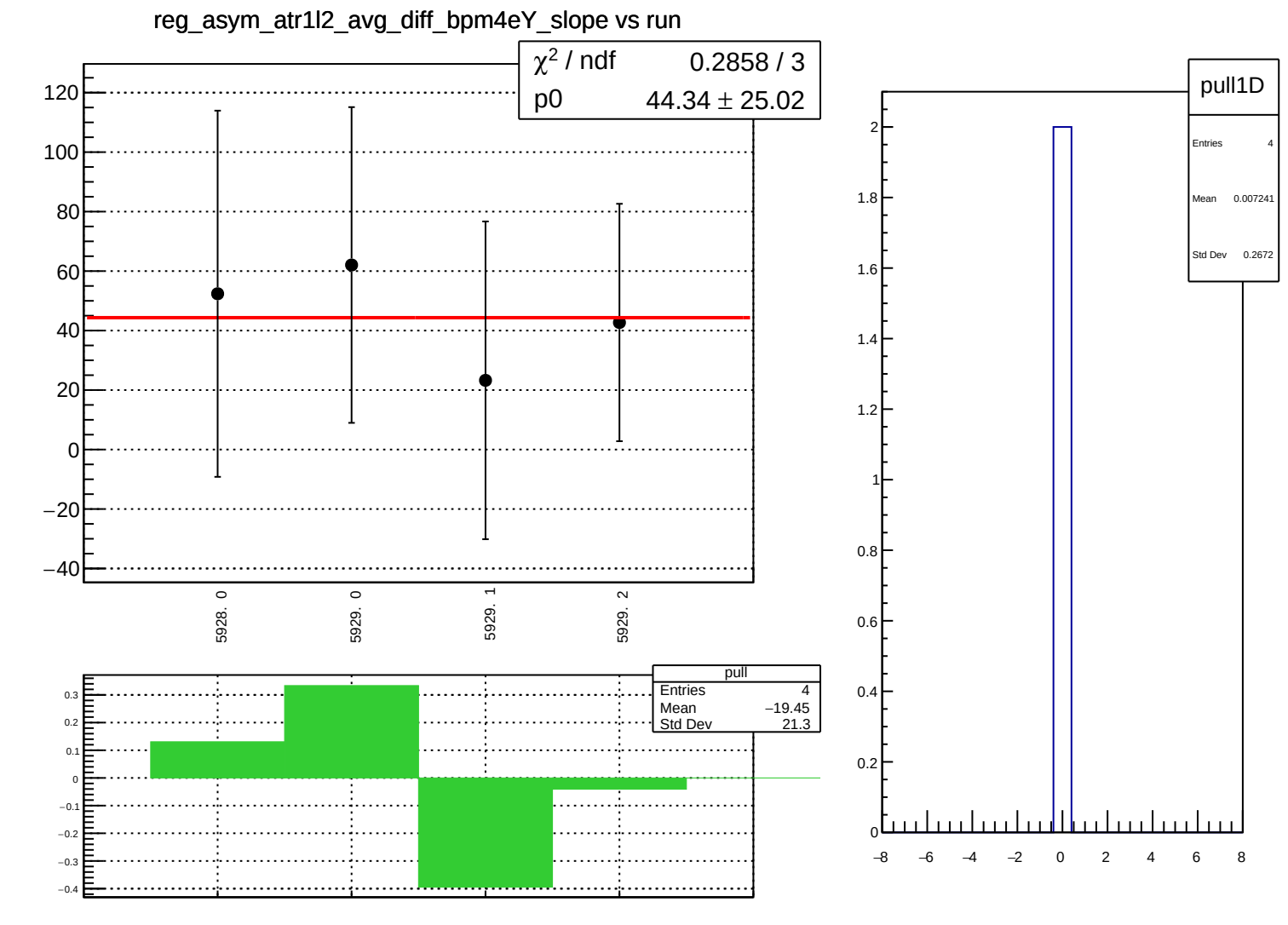

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.941 / 3
p0 112.6 ± 1.778
120
118
116
114
112
110
108
106
104
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 124.2
Std Dev 122.5
0.5
0
−0.5
−1
−1.5
pull1D
Entries 4
Mean 0.006104
Std Dev 0.8574
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

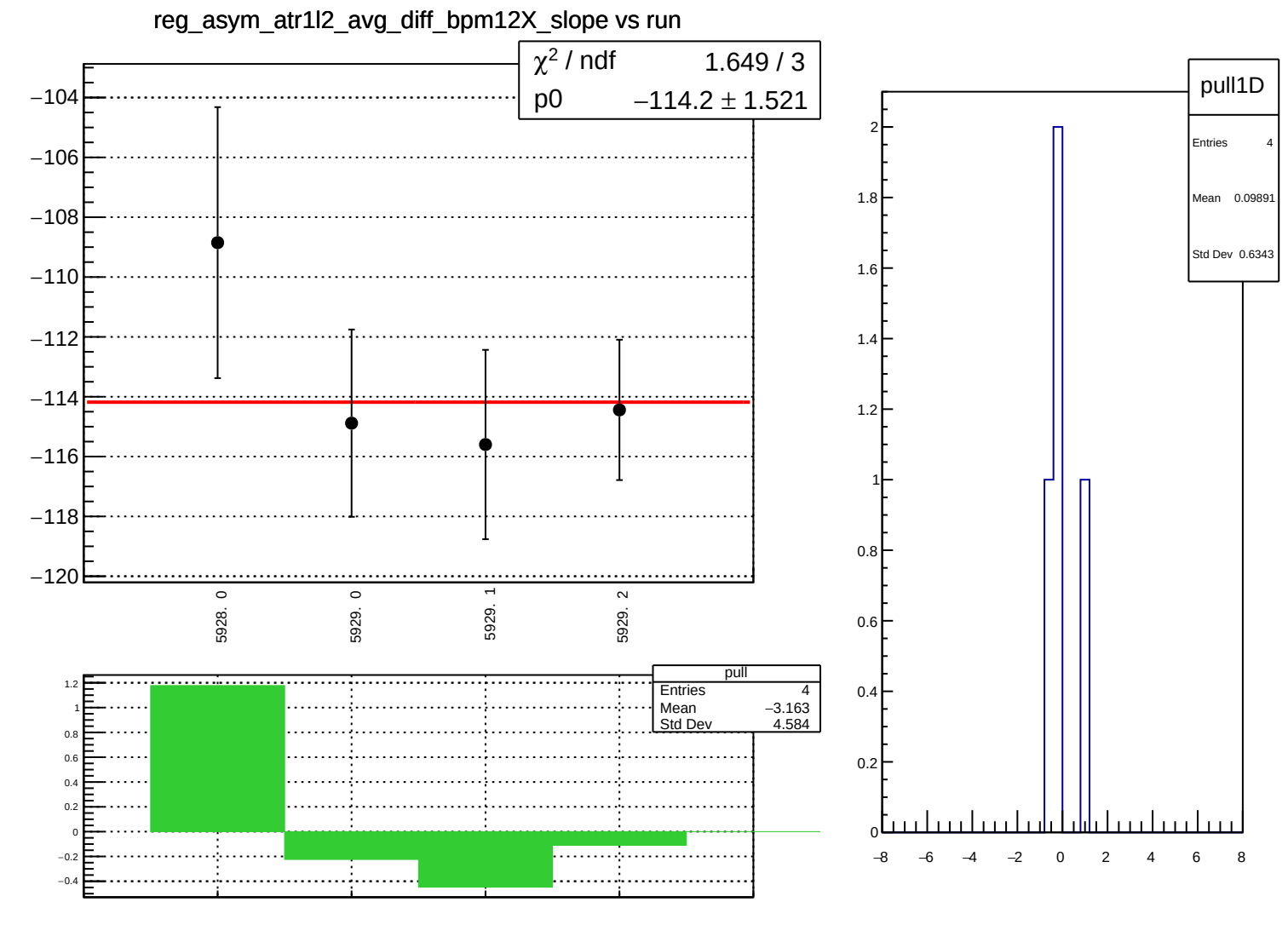

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.373 / 3
p0 −294.9 ± 26.21
−160
−180
−200
−220
−240
−260
−280
−300
−320
−340
−360
−380
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.089
Std Dev 2.632
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.02982
Std Dev 0.3039
2
1.8
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

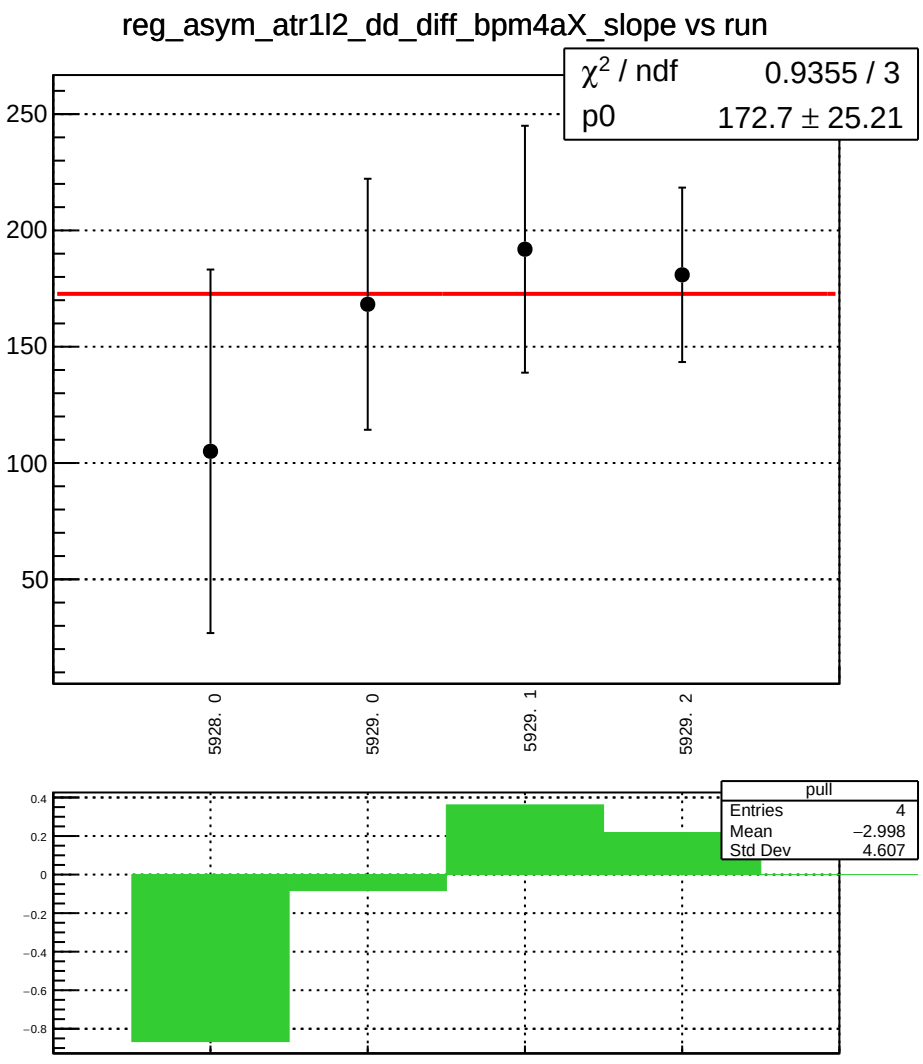

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2565 / 3
p0 3.609 ± 22.55
80
60
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −40.56
Std Dev 42.52
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean −0.002695
Std Dev 0.2532
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

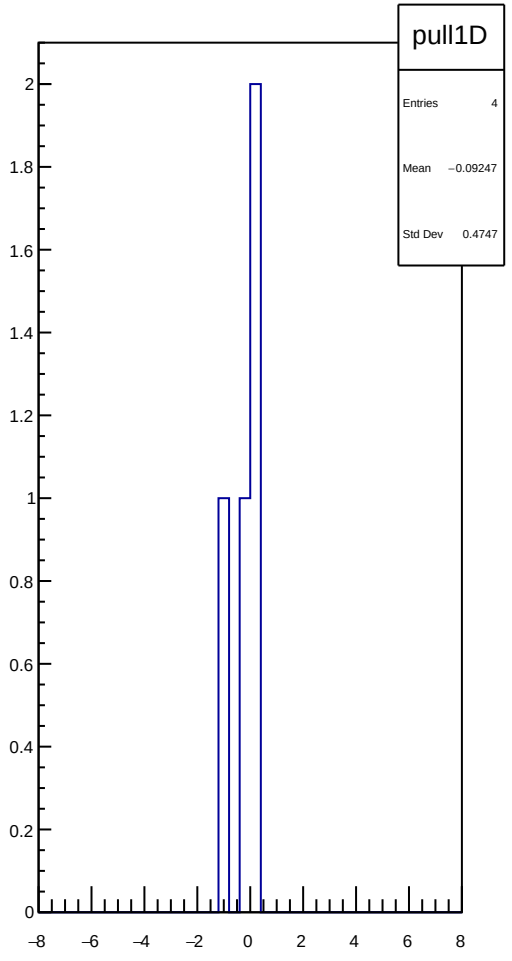

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.2699 / 3
p0 346 ± 33.11
450
400
350
300
250
200
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.151
Std Dev 2.966
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

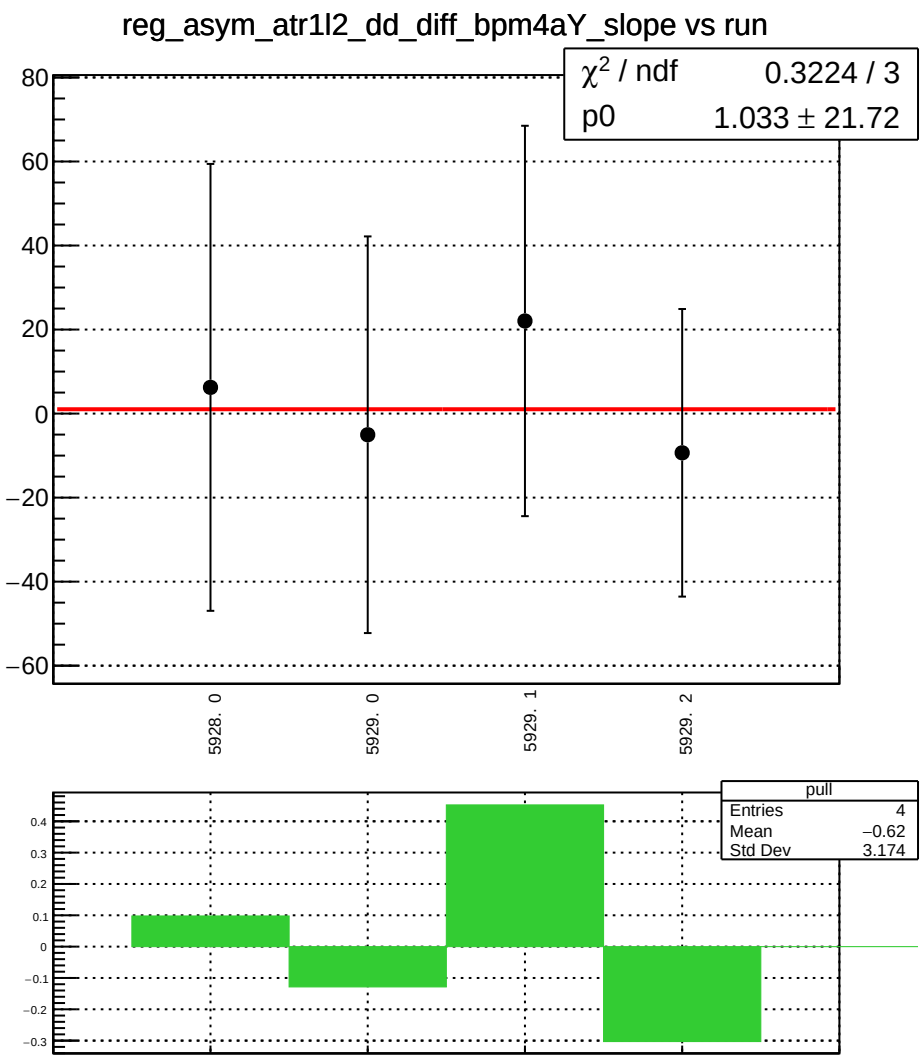

pull1D
Entries 4
Mean −0.02914
Std Dev 0.2581
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

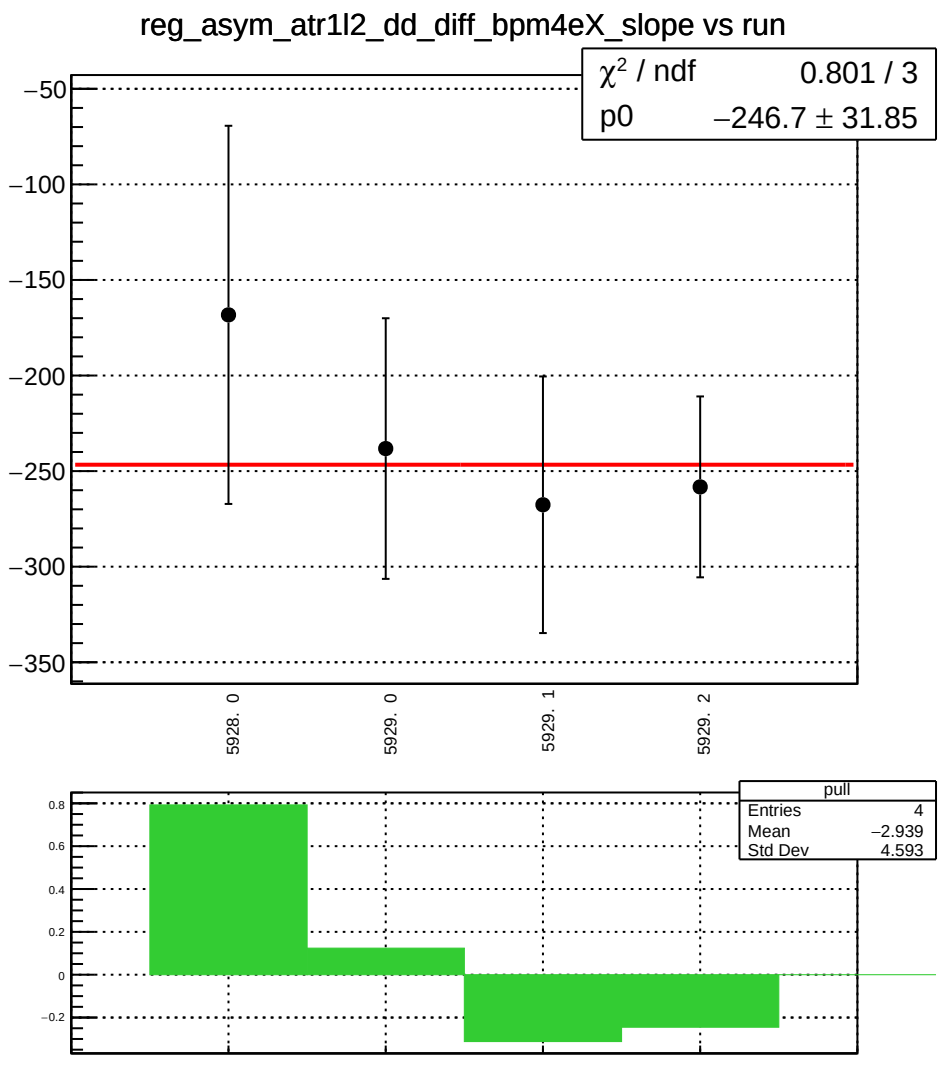

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2858 / 3
p0 44.34 ± 25.02
120
100
80
60
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −19.45
Std Dev 21.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 4
Mean 0.007241
Std Dev 0.2672
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

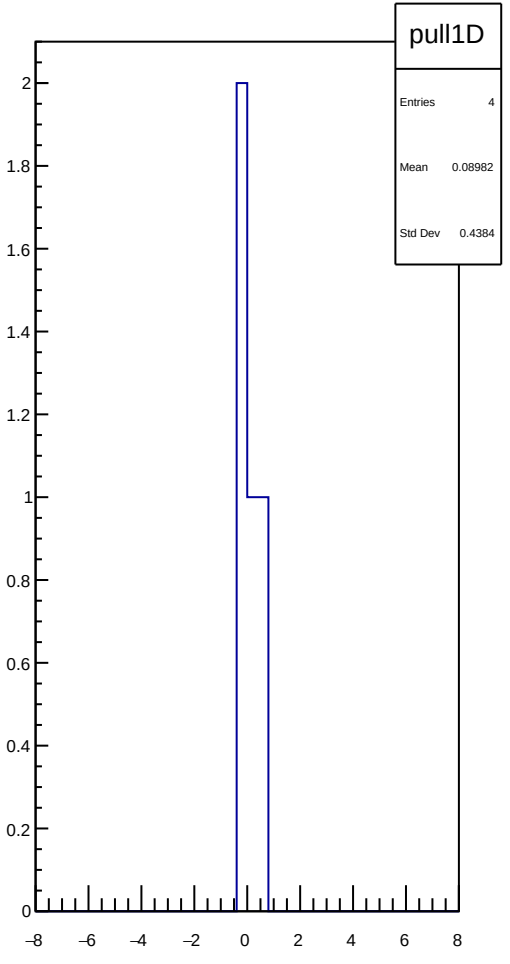

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.649 / 3
p0 −114.2 ± 1.521
−104
−106
−108
−110
−112
−114
−116
−118
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.163
Std Dev 4.584
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.09891
Std Dev 0.6343
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

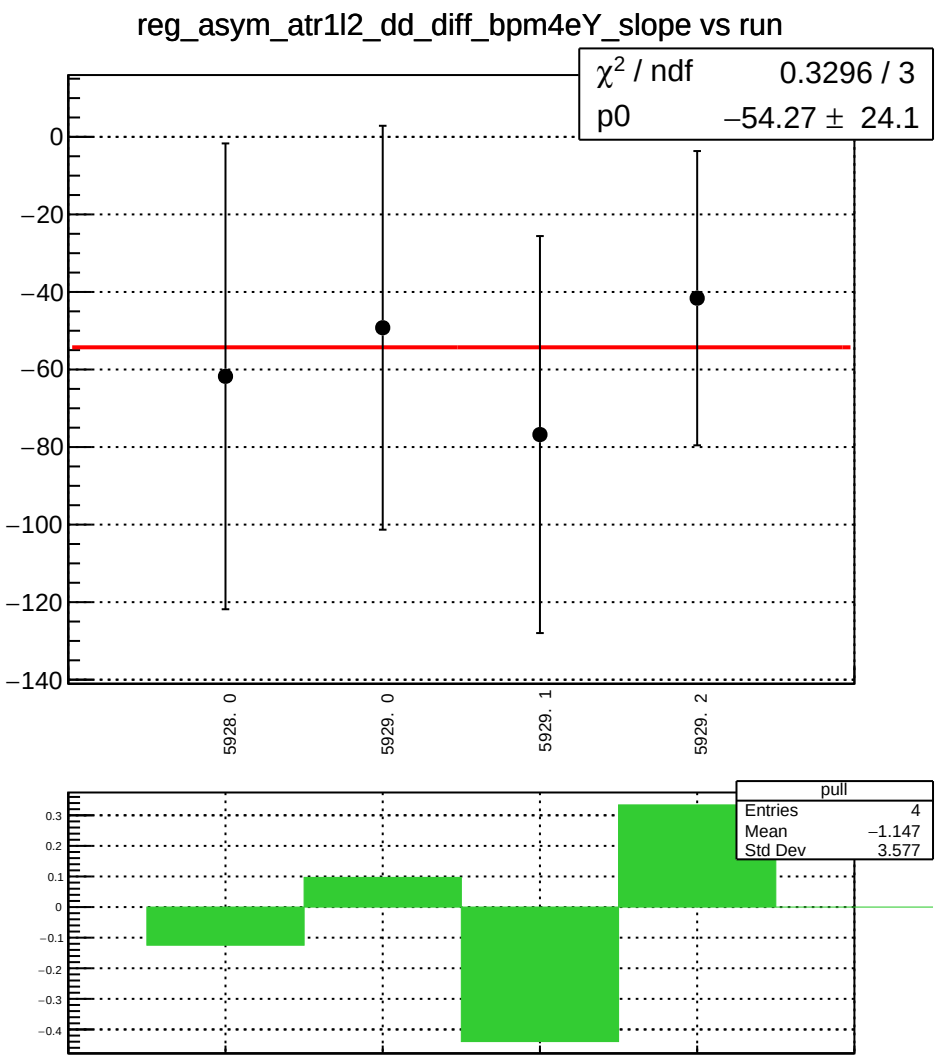

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.9355 / 3
p0 172.7 ± 25.21
250
200
150
100
50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.998
Std Dev 4.607
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

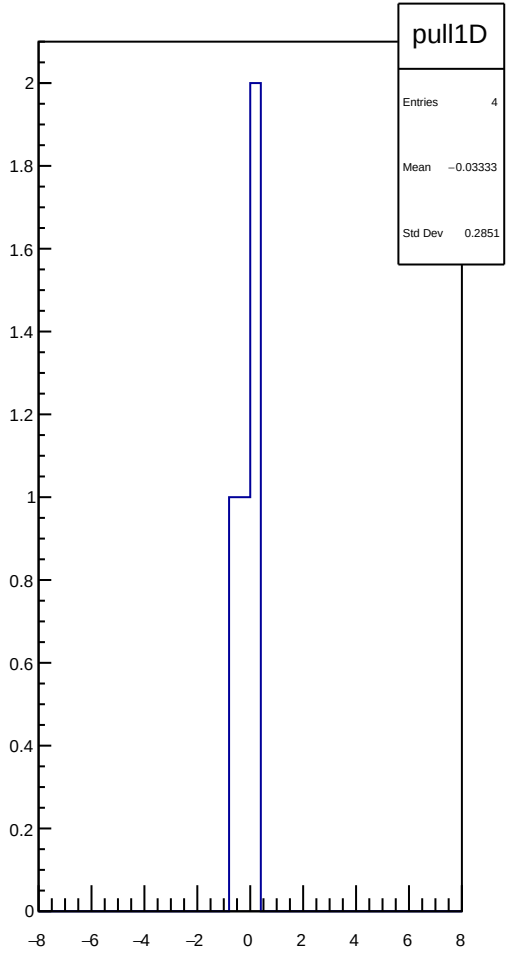

pull1D
Entries 4
Mean −0.09247
Std Dev 0.4747
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

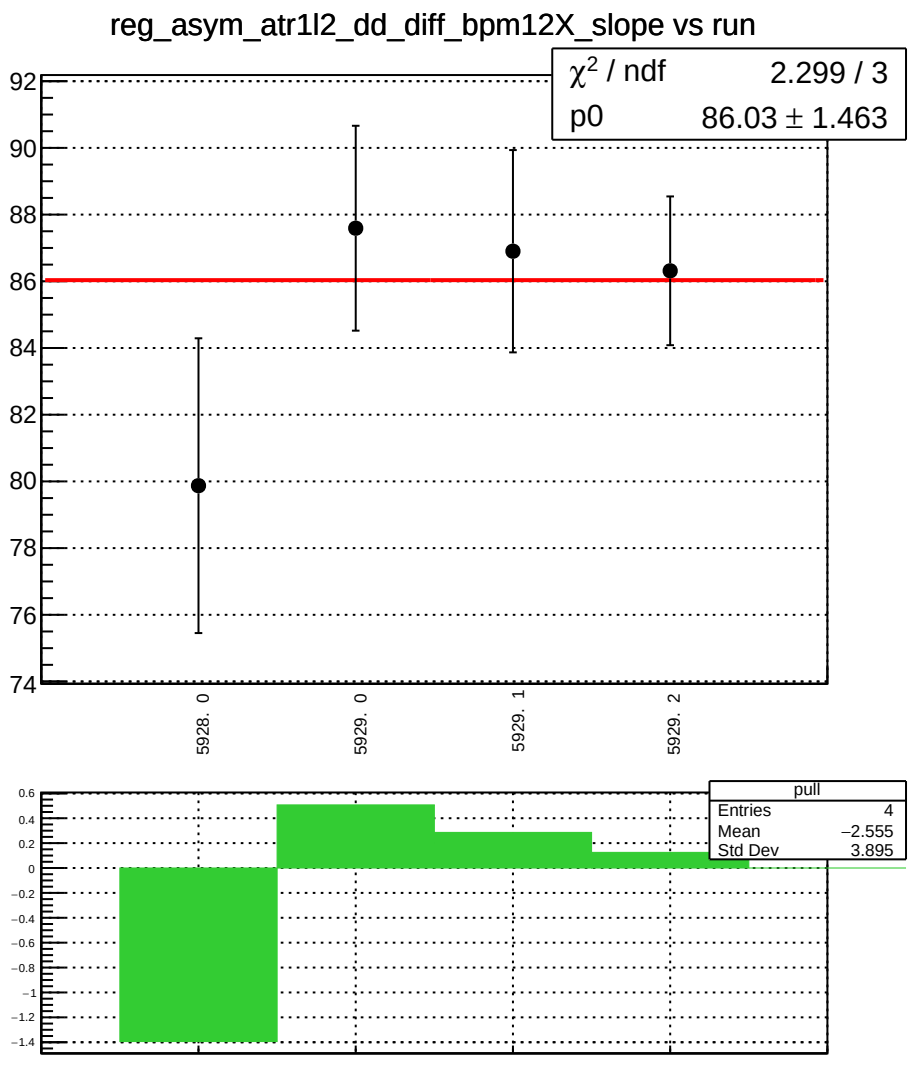

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3224 / 3
p0 1.033 ± 21.72
80
60
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −0.62
Std Dev 3.174
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 4
Mean 0.02966
Std Dev 0.2824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

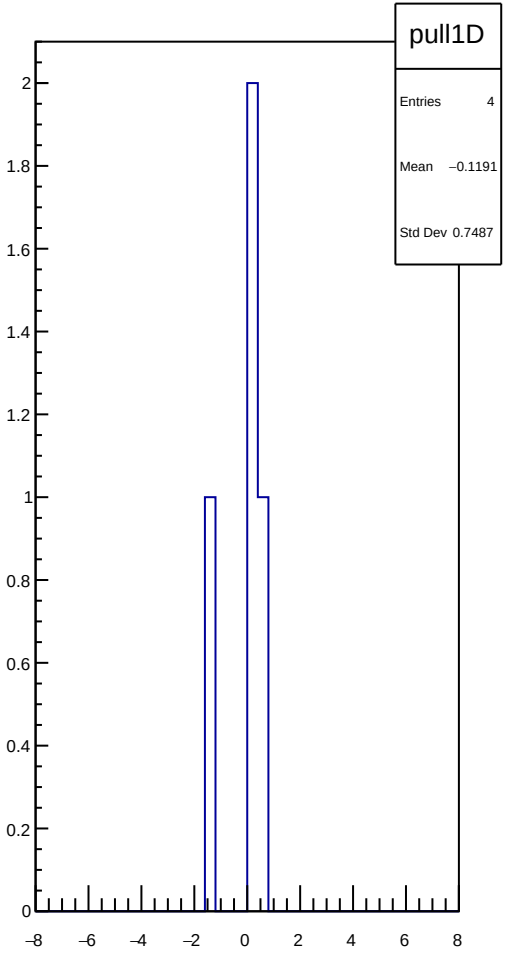

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.801 / 3
p0 −246.7 ± 31.85
−50
−100
−150
−200
−250
−300
−350
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.939
Std Dev 4.593
0.8
0.6
0.4
0.2
0
−0.2

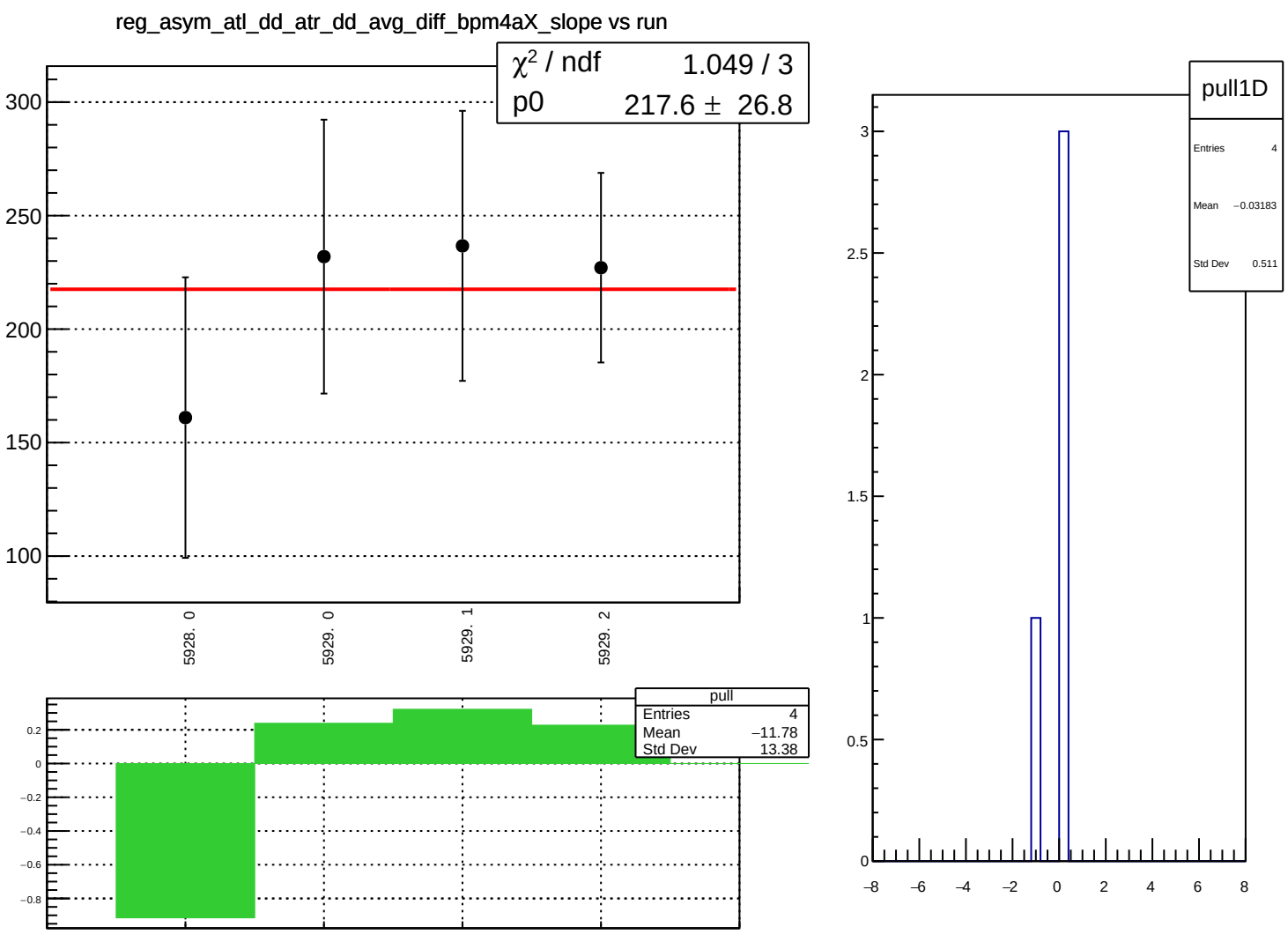

pull1D
Entries 4
Mean 0.08982
Std Dev 0.4384
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

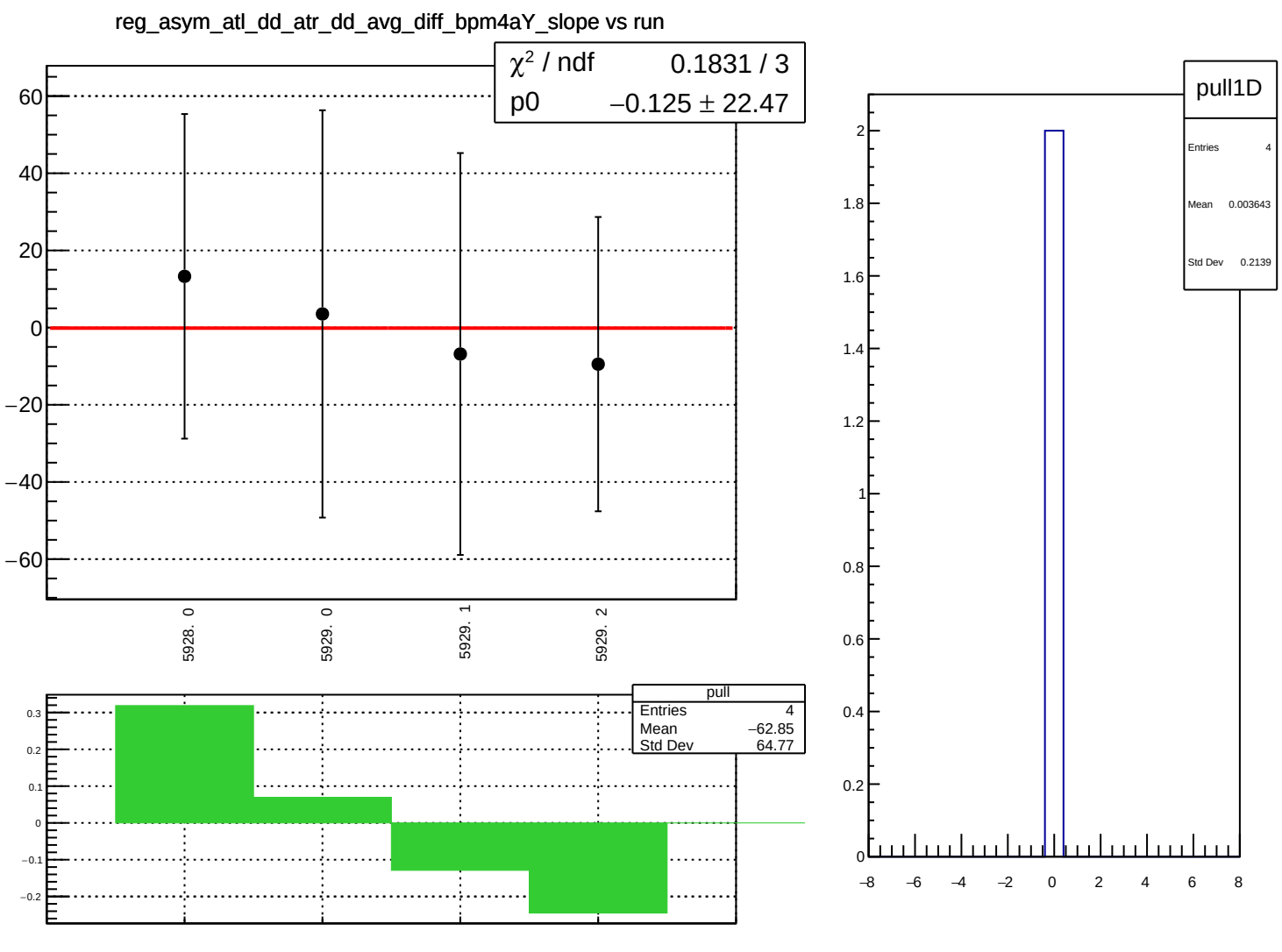

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3296 / 3
p0 −54.27 ± 24.1
0
−20
−40
−60
−80
−100
−120
−140
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.147
Std Dev 3.577
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

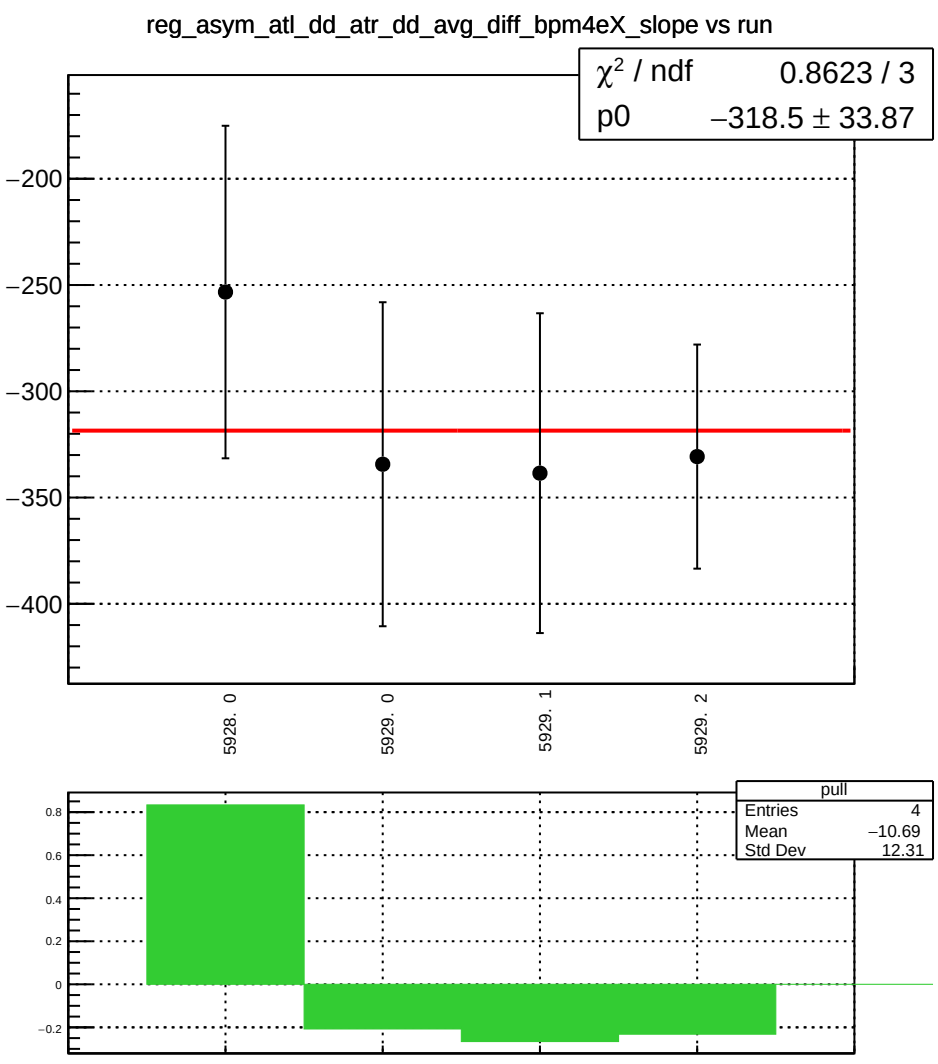

pull1D
Entries 4
Mean −0.03333
Std Dev 0.2851
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

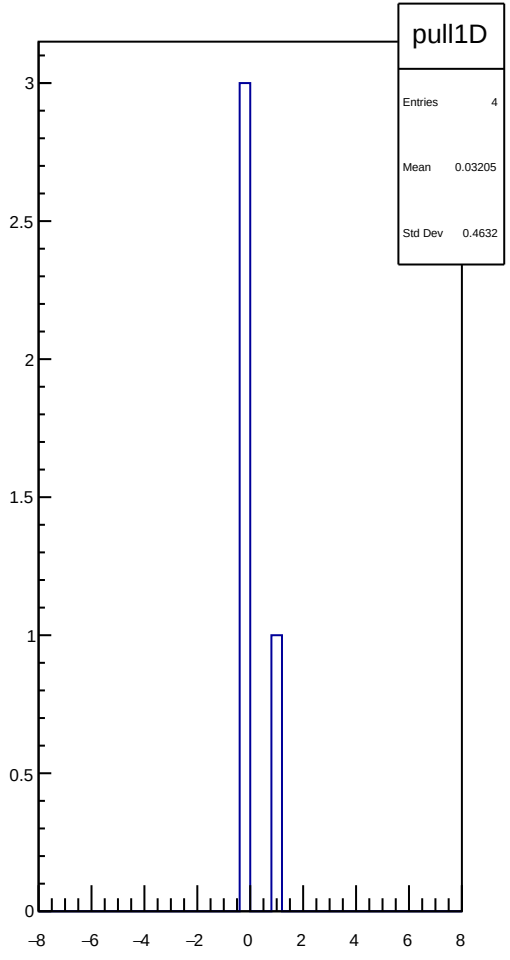

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.299 / 3
p0 86.03 ± 1.463
92
90
88
86
84
82
80
78
76
74
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.555
Std Dev 3.895
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

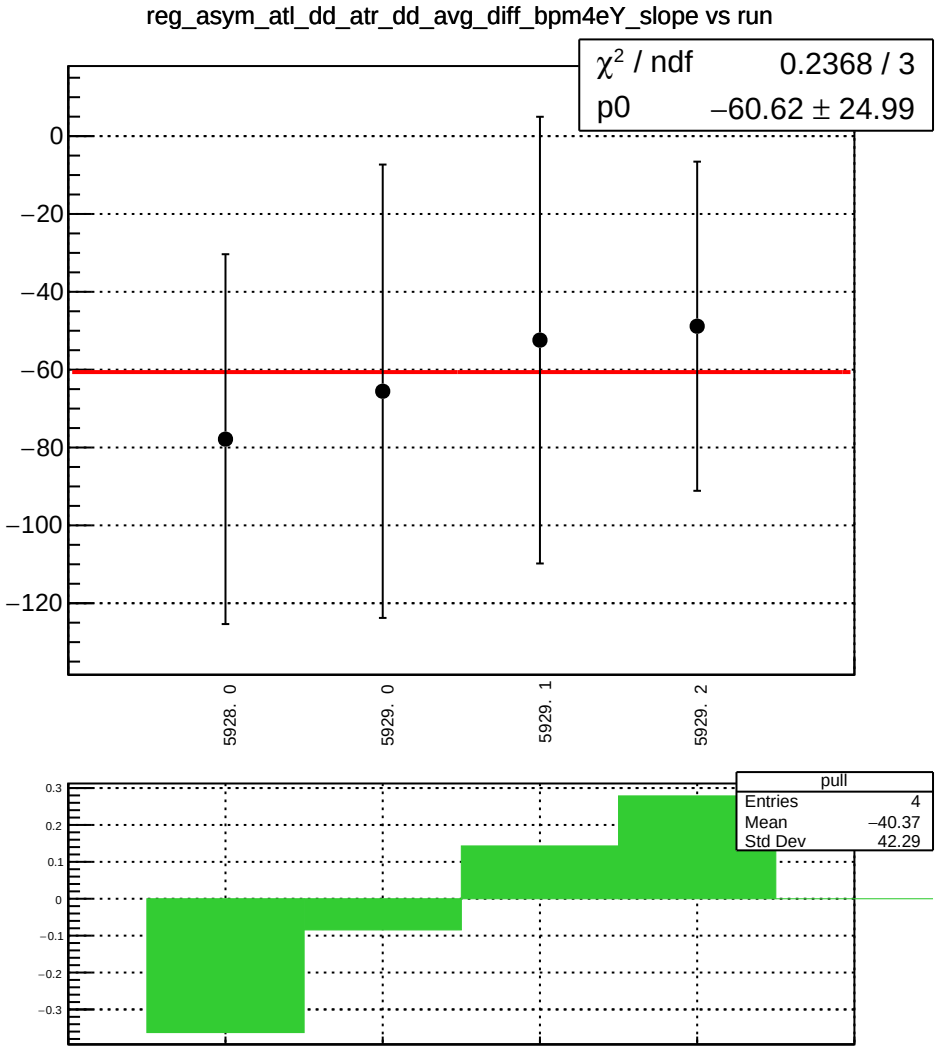

pull1D
Entries 4
Mean −0.1191
Std Dev 0.7487
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

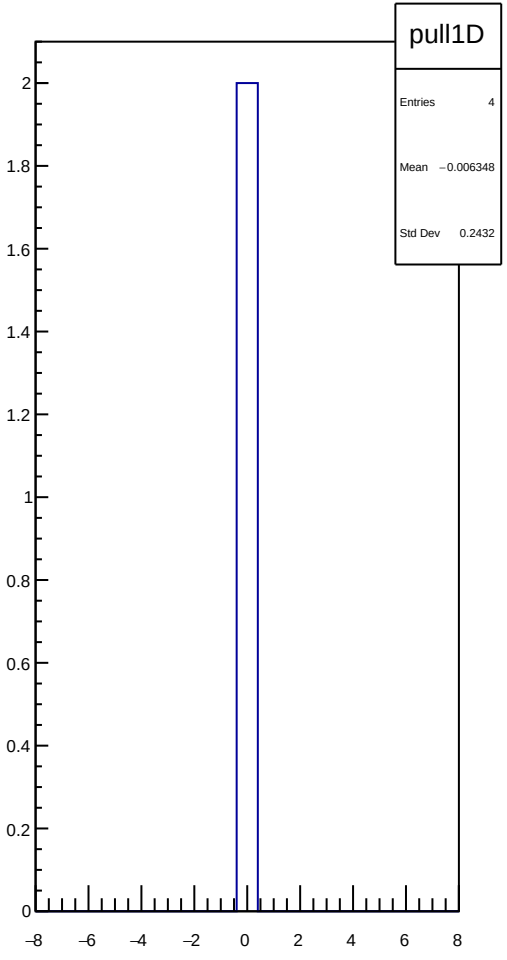

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.049 / 3
p0 217.6 ± 26.8
300
250
200
150
100
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −11.78
Std Dev 13.38
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.03183
Std Dev 0.511
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

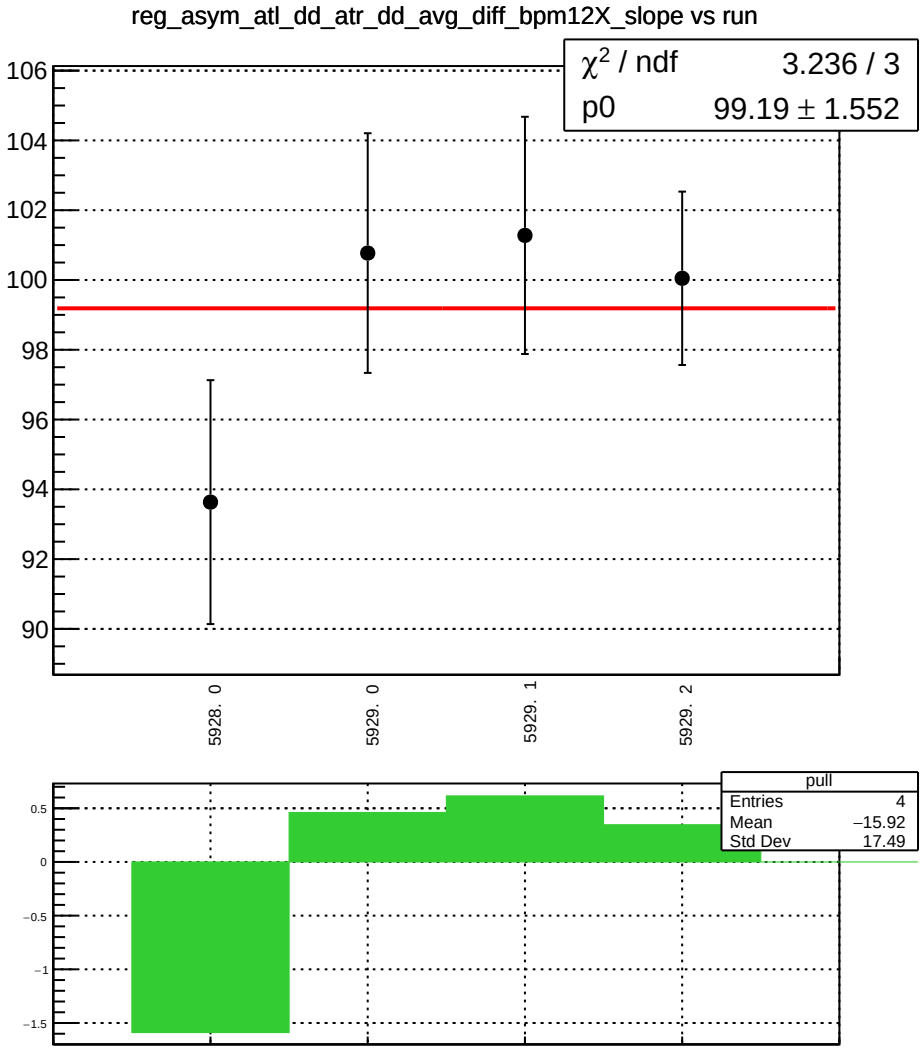

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.1831 / 3
p0 −0.125 ± 22.47
60
40
20
0
−20
−40
−60
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −62.85
Std Dev 64.77
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 4
Mean 0.003643
Std Dev 0.2139
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

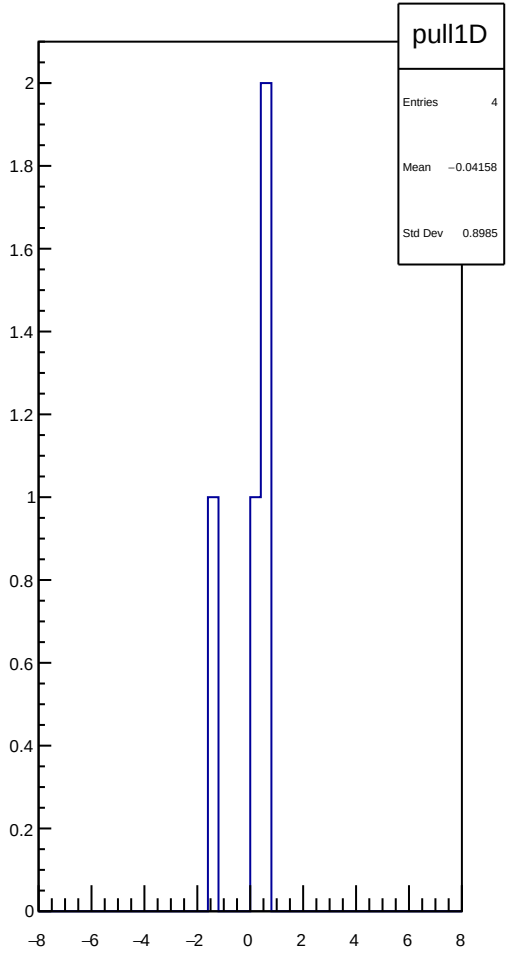

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.8623 / 3
p0 −318.5 ± 33.87
−200
−250
−300
−350
−400
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −10.69
Std Dev 12.31
0.8
0.6
0.4
0.2
0
−0.2

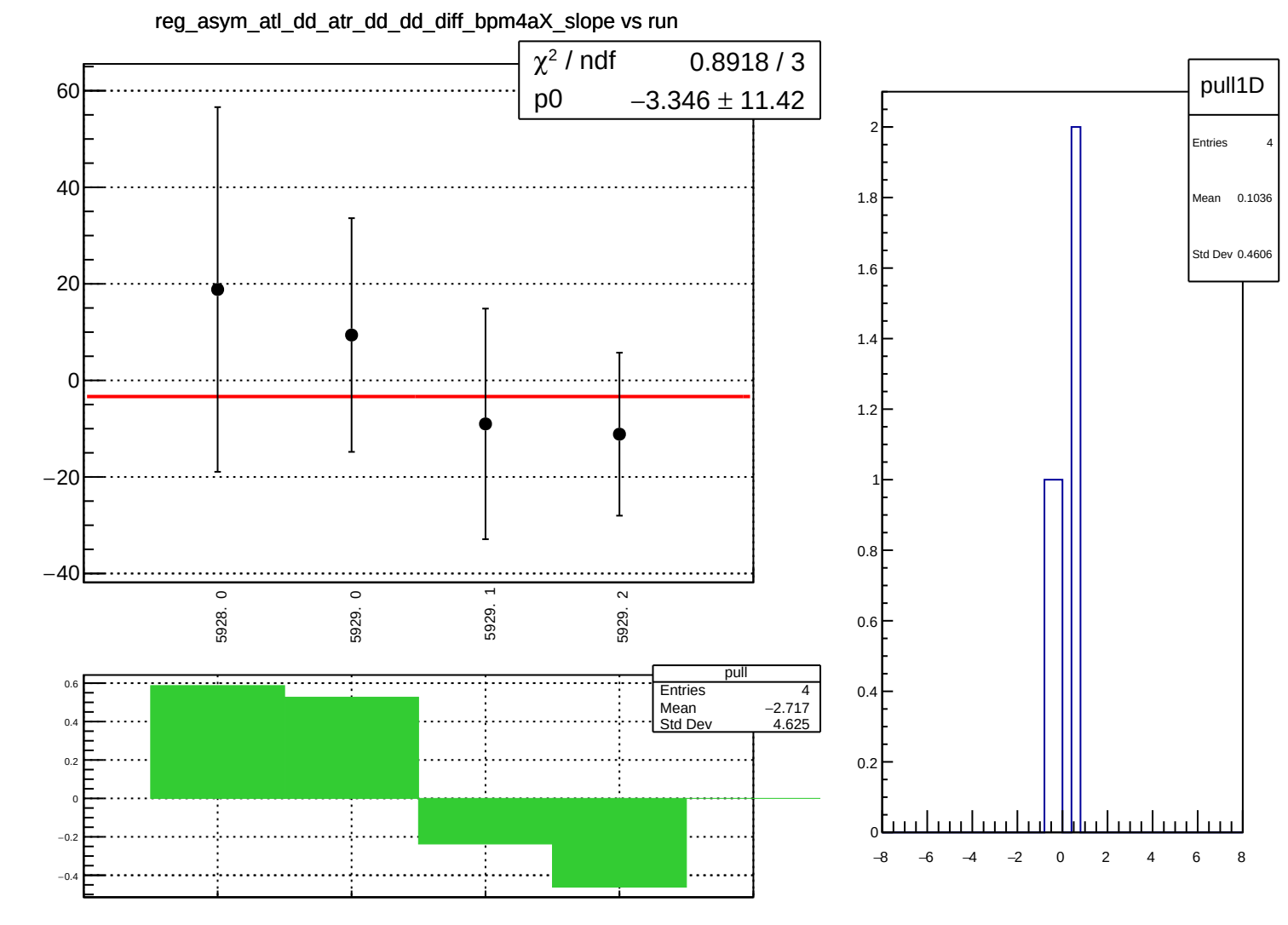

pull1D
Entries 4
Mean 0.03205
Std Dev 0.4632
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

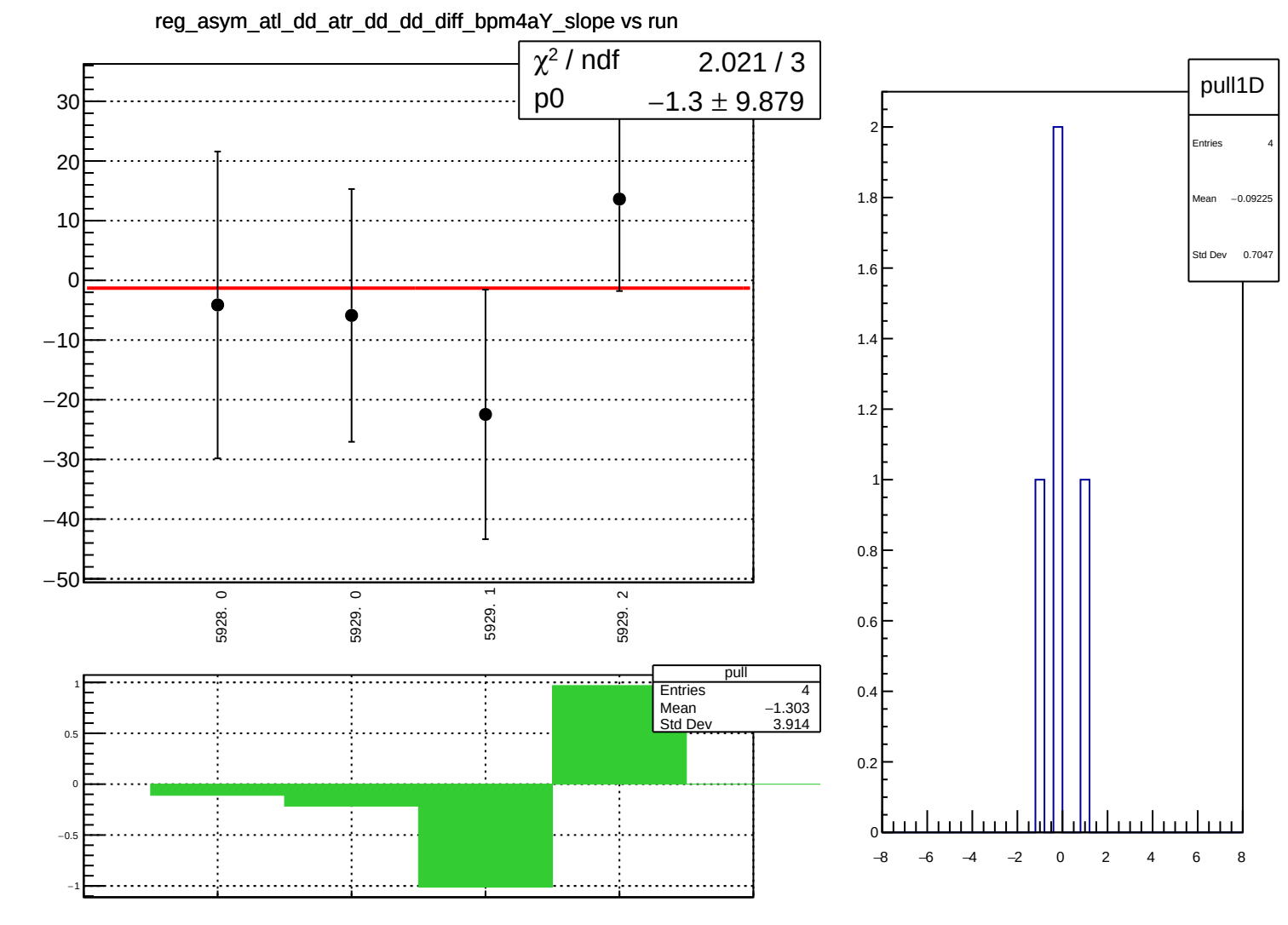

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2368 / 3
p0 −60.62 ± 24.99
0
−20
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −40.37
Std Dev 42.29
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

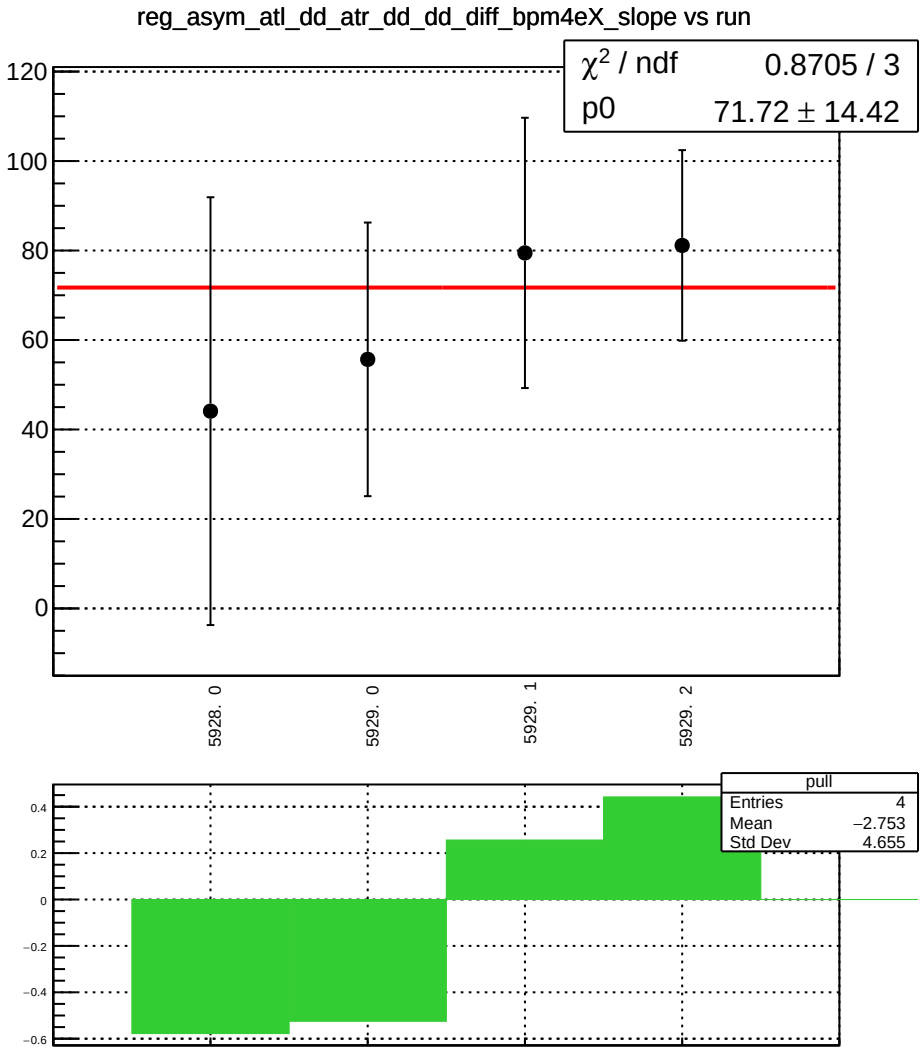

pull1D
Entries 4
Mean −0.006348
Std Dev 0.2432
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

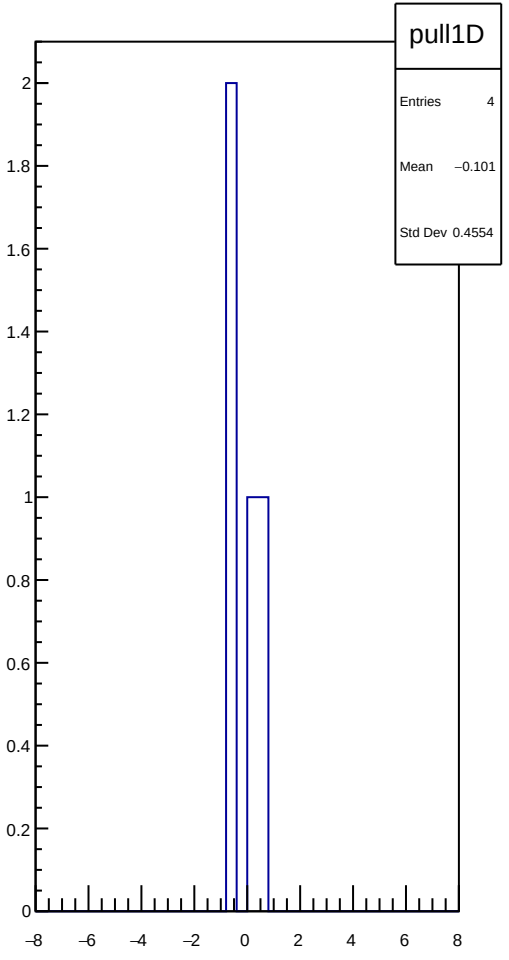

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.236 / 3
p0 99.19 ± 1.552
106
104
102
100
98
96
94
92
90
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −15.92
Std Dev 17.49
0.5
0
−0.5
−1
−1.5

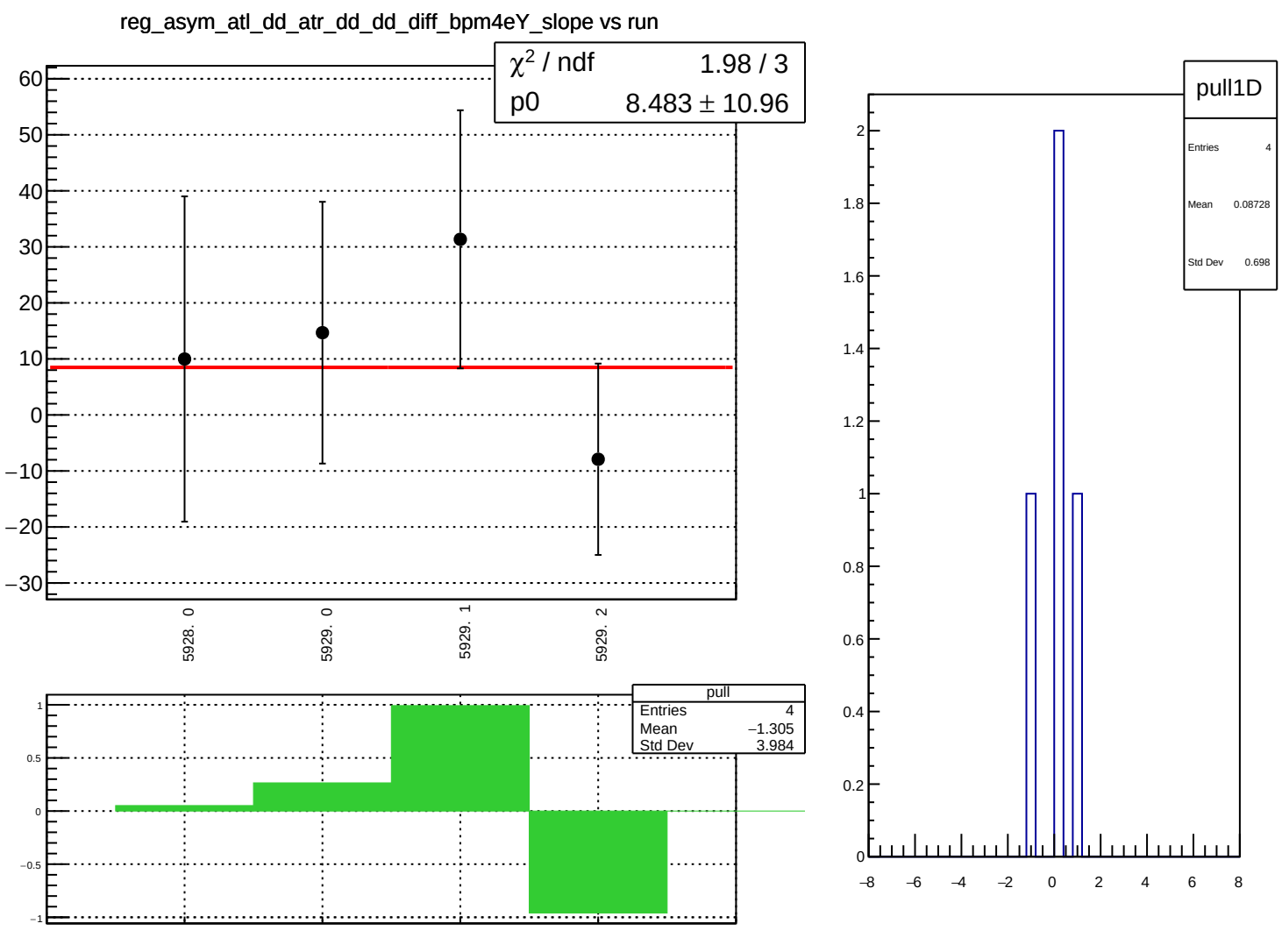

pull1D
Entries 4
Mean −0.04158
Std Dev 0.8985
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

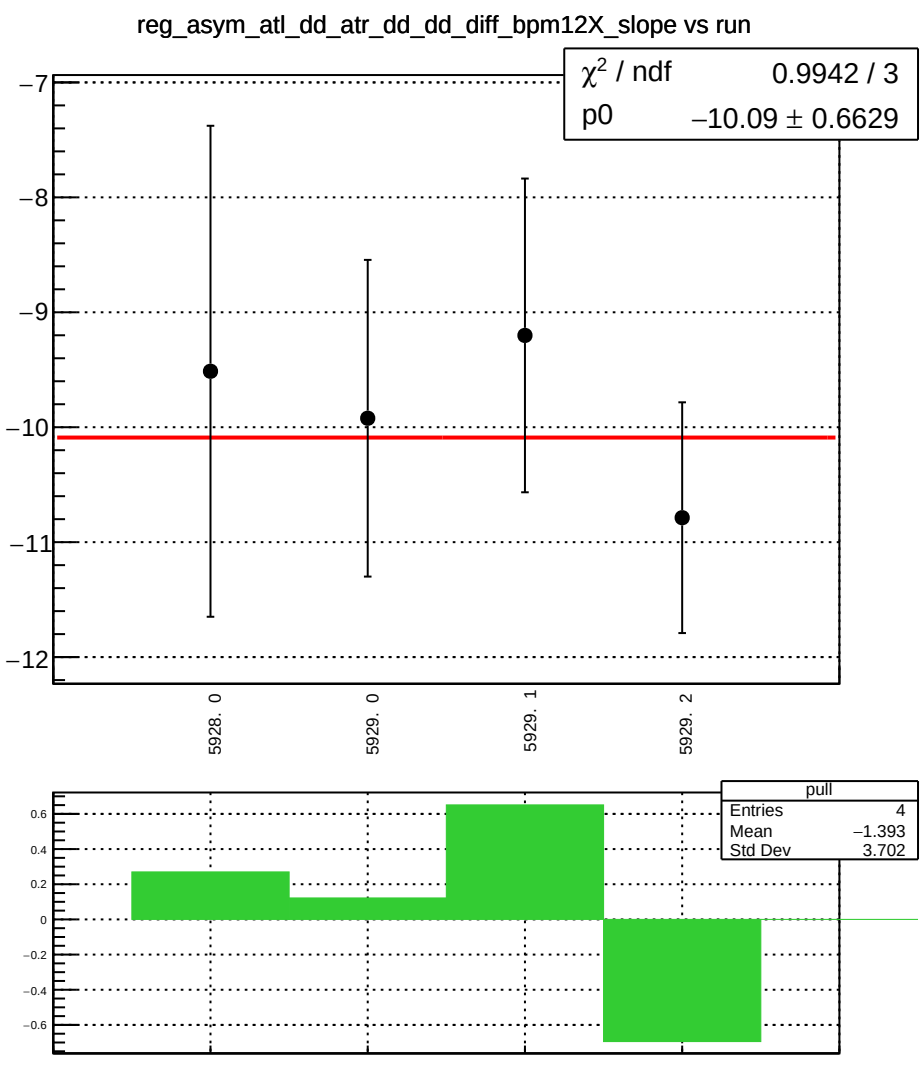

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.8918 / 3
p0 −3.346 ± 11.42
60
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.717
Std Dev 4.625
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.1036
Std Dev 0.4606
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

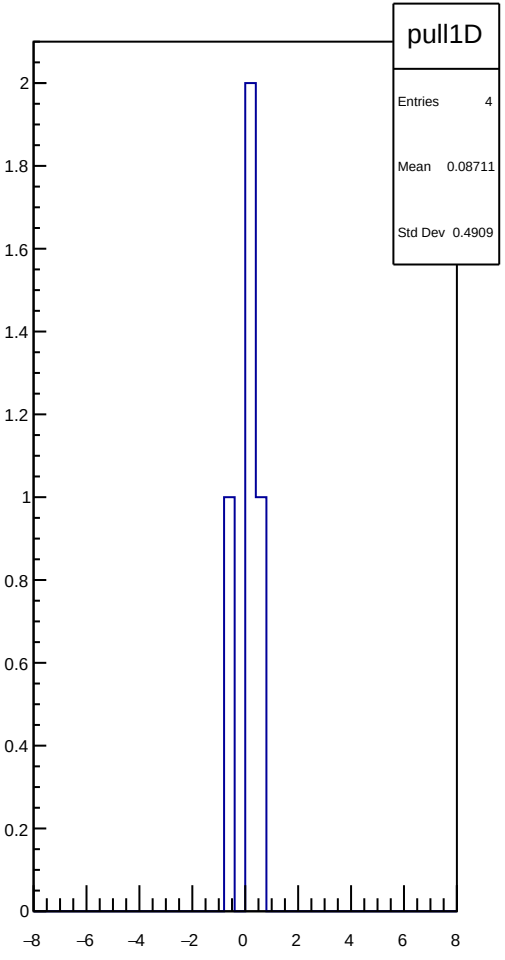

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.021 / 3
p0 −1.3 ± 9.879
30
20
10
0
−10
−20
−30
−40
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.303
Std Dev 3.914
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean −0.09225
Std Dev 0.7047
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

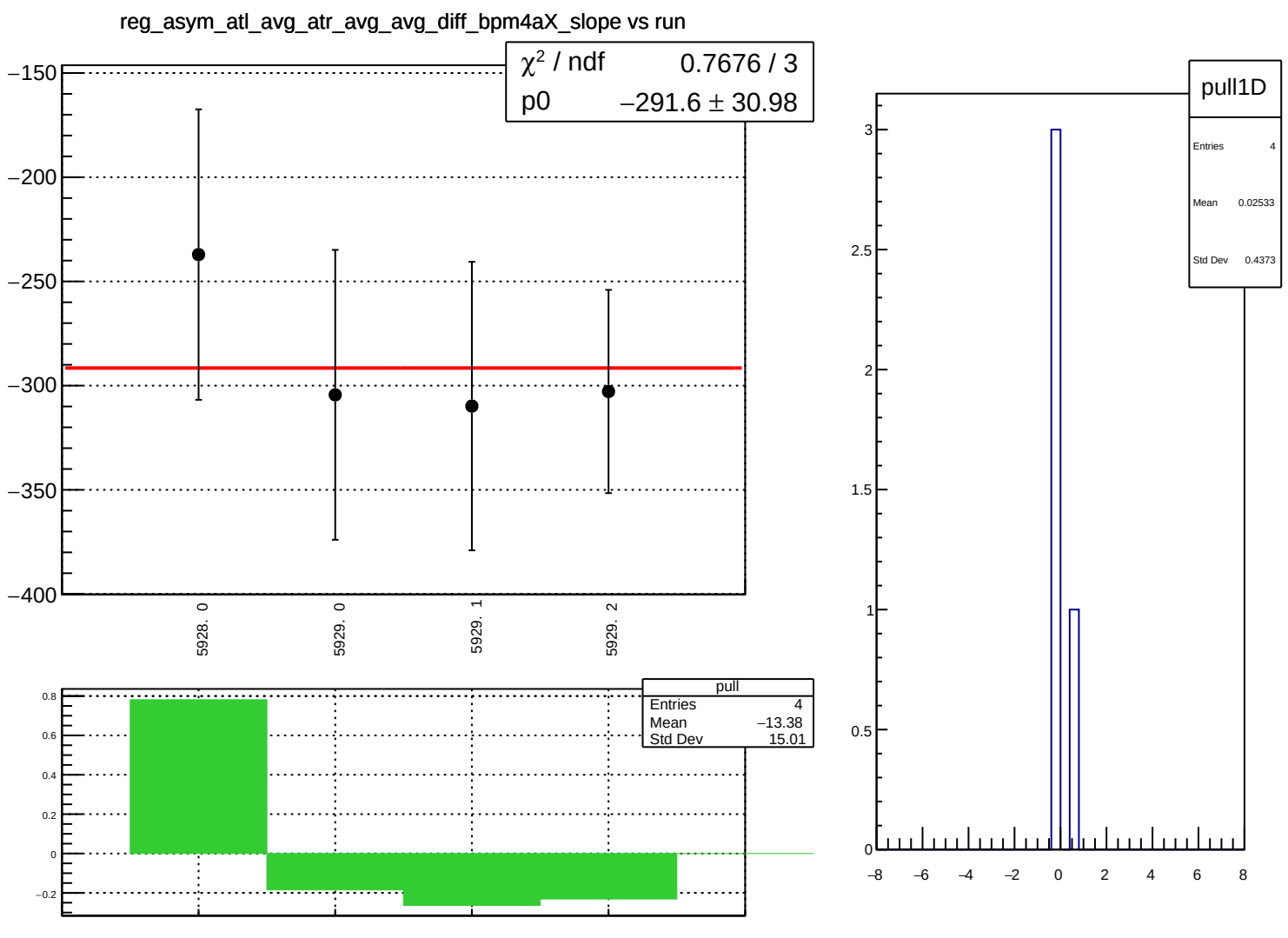

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8705 / 3
p0 71.72 ± 14.42
120
100
80
60
40
20
0
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.753
Std Dev 4.655
0.4
0.2
0
−0.2
−0.4
−0.6

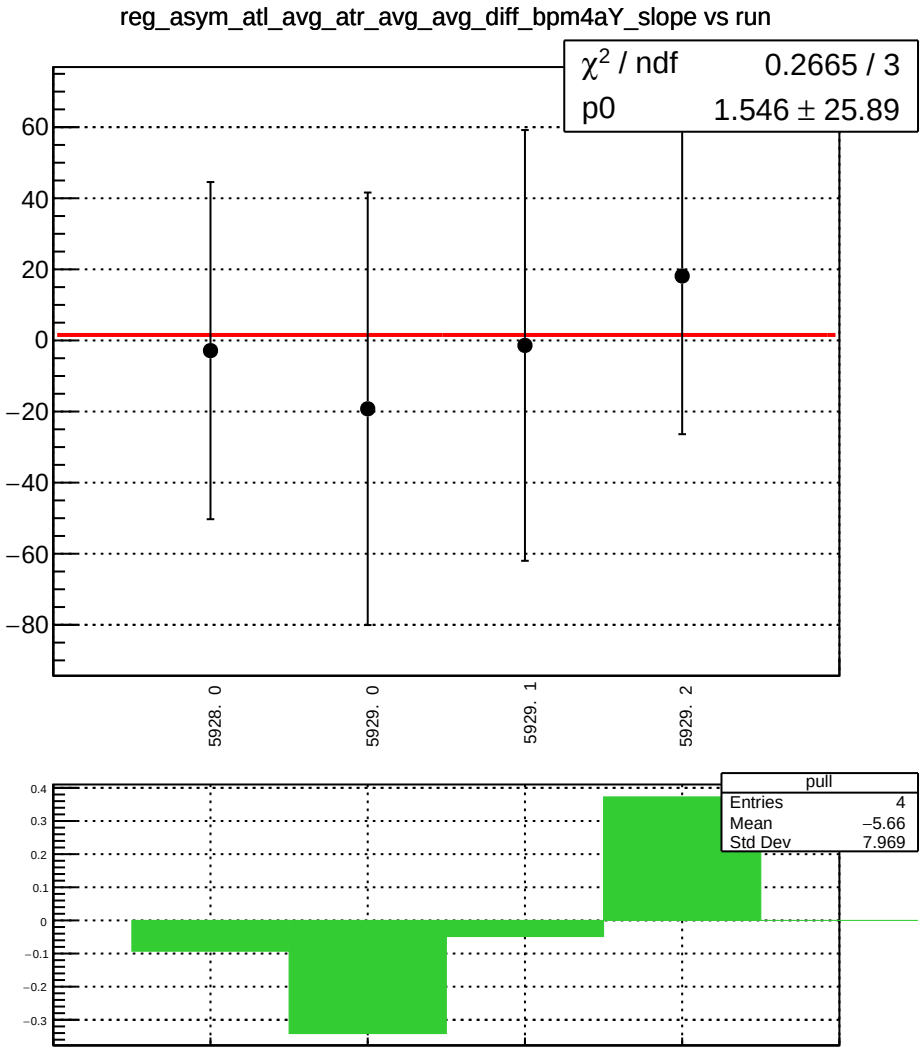

pull1D
Entries 4
Mean −0.101
Std Dev 0.4554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

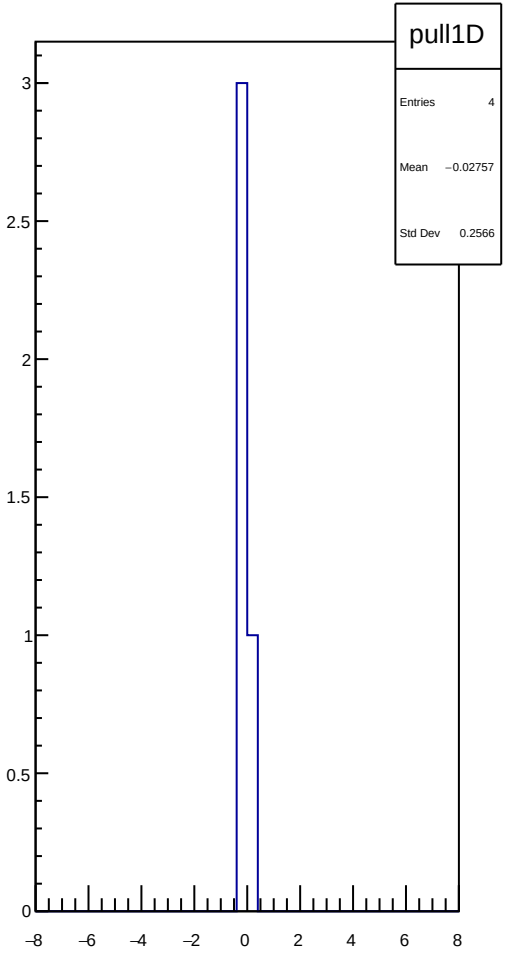

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.98 / 3
p0 8.483 ± 10.96
60
50
40
30
20
10
0
−10
−20
−30
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.305
Std Dev 3.984
1
0.5
0
−0.5
−1
pull1D
Entries 4
Mean 0.08728
Std Dev 0.698
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

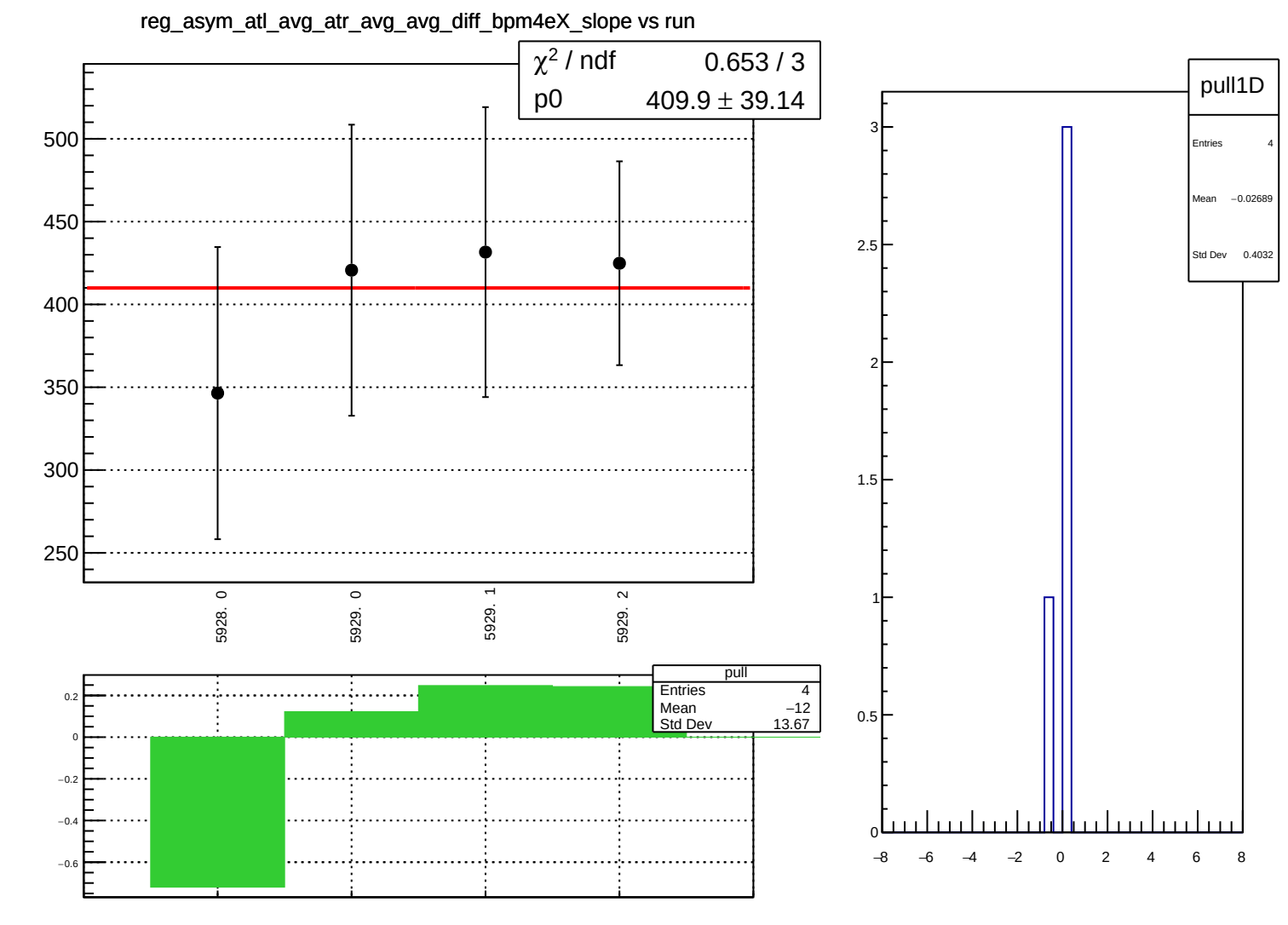

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9942 / 3
p0 −10.09 ± 0.6629
−7
−8
−9
−10
−11
−12
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −1.393
Std Dev 3.702
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

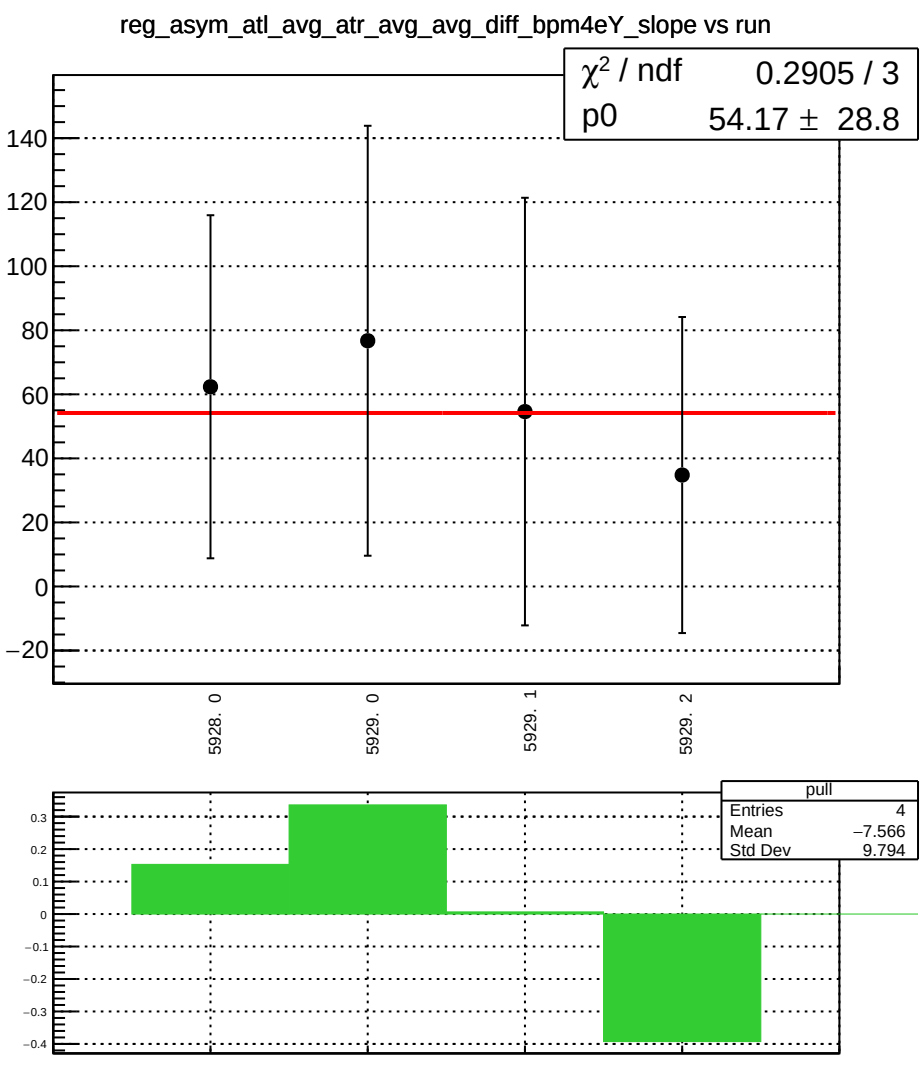

pull1D
Entries 4
Mean 0.08711
Std Dev 0.4909
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

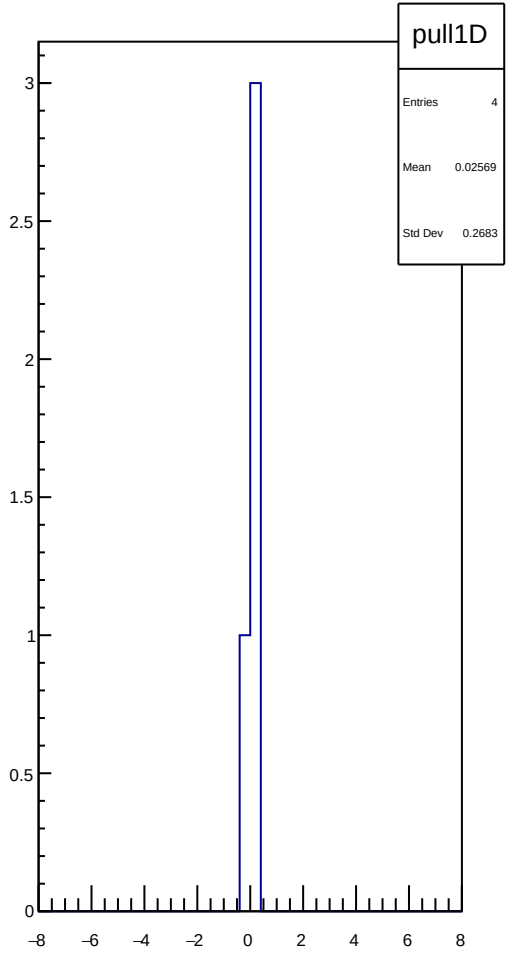

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.7676 / 3
p0 −291.6 ± 30.98
−150
−200
−250
−300
−350
−400
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.38
Std Dev 15.01
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean 0.02533
Std Dev 0.4373
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

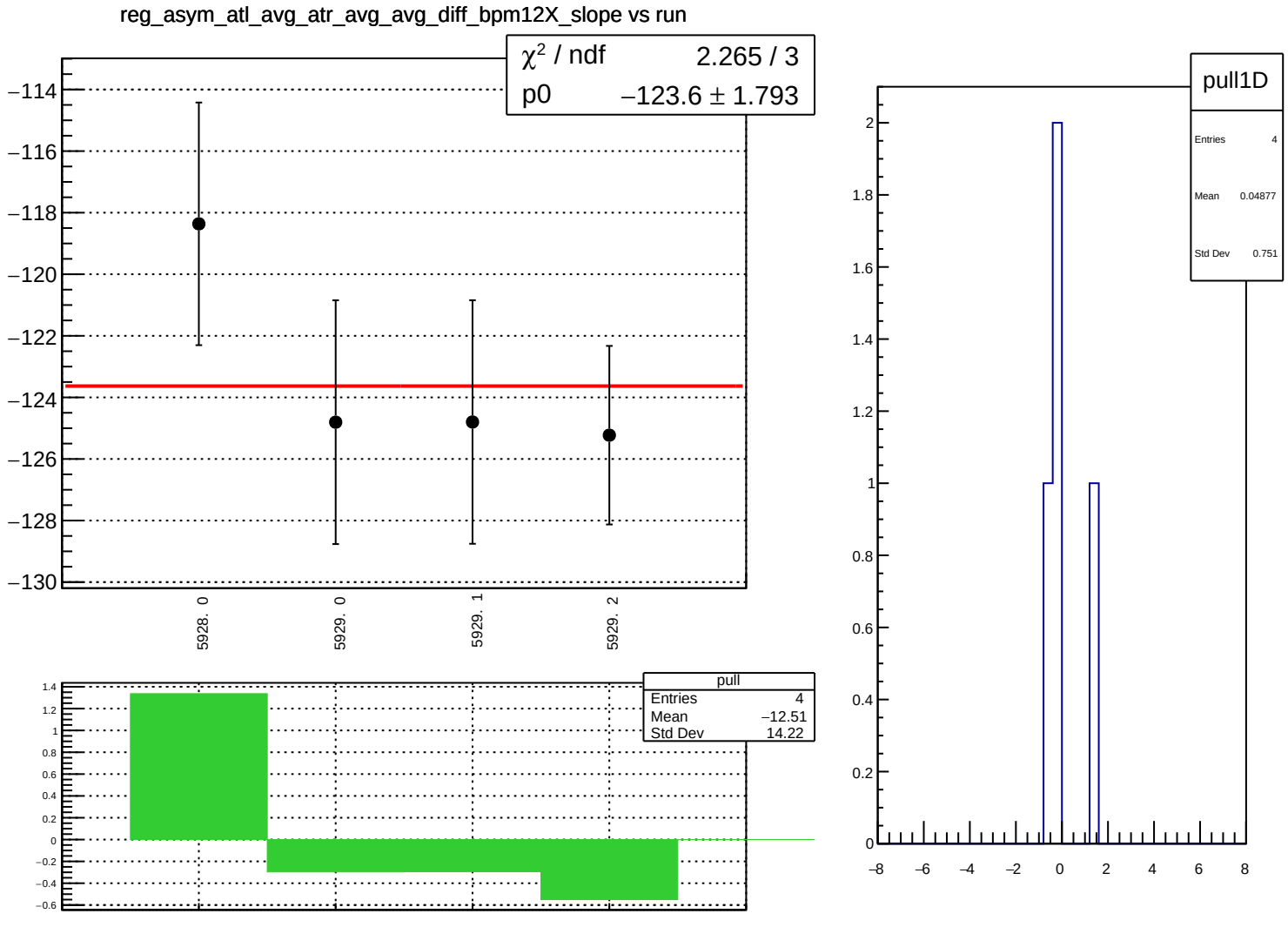

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.2665 / 3
p0 1.546 ± 25.89
60
40
20
0
−20
−40
−60
−80
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.66
Std Dev 7.969
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

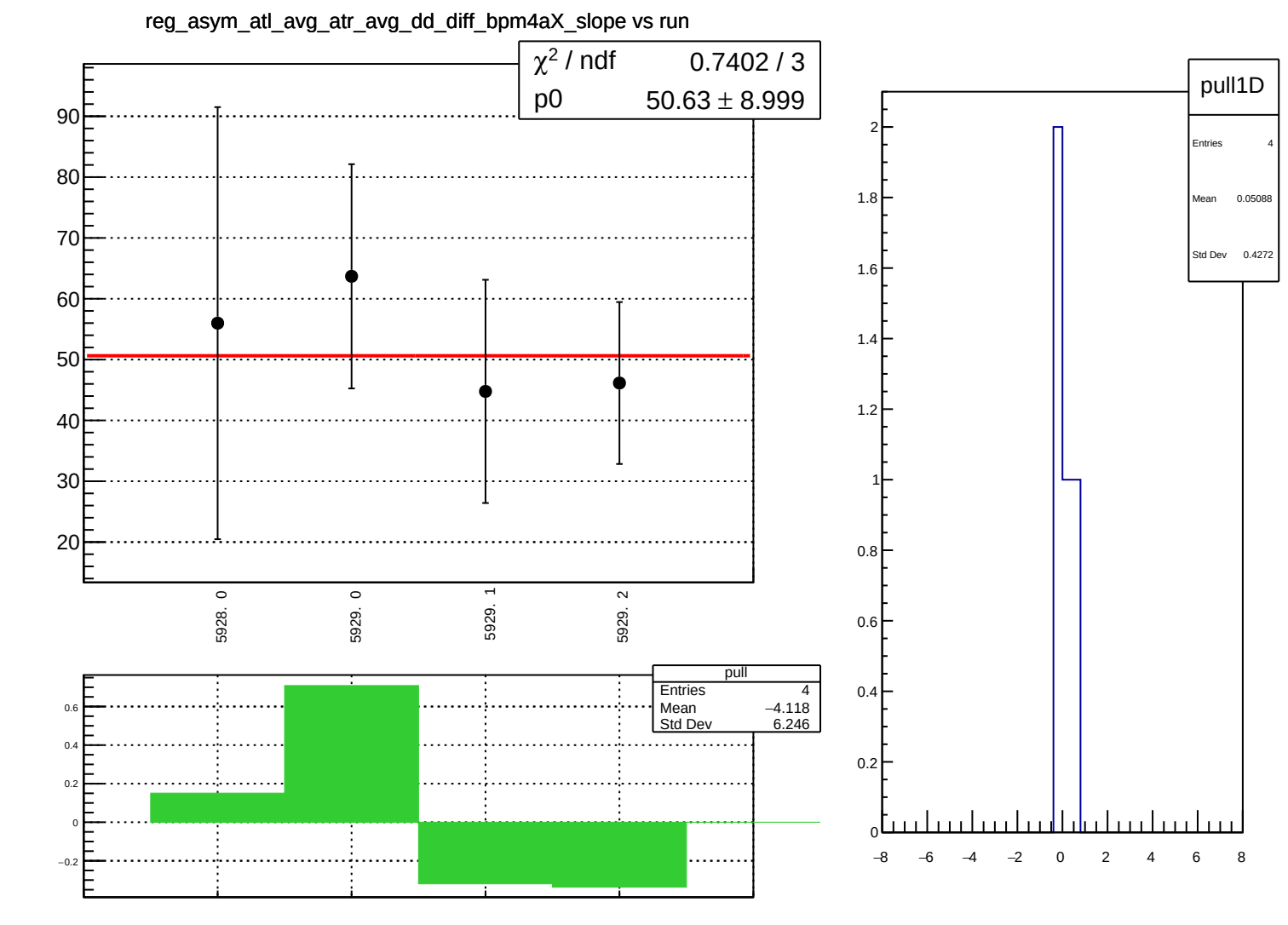

pull1D
Entries 4
Mean −0.02757
Std Dev 0.2566
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

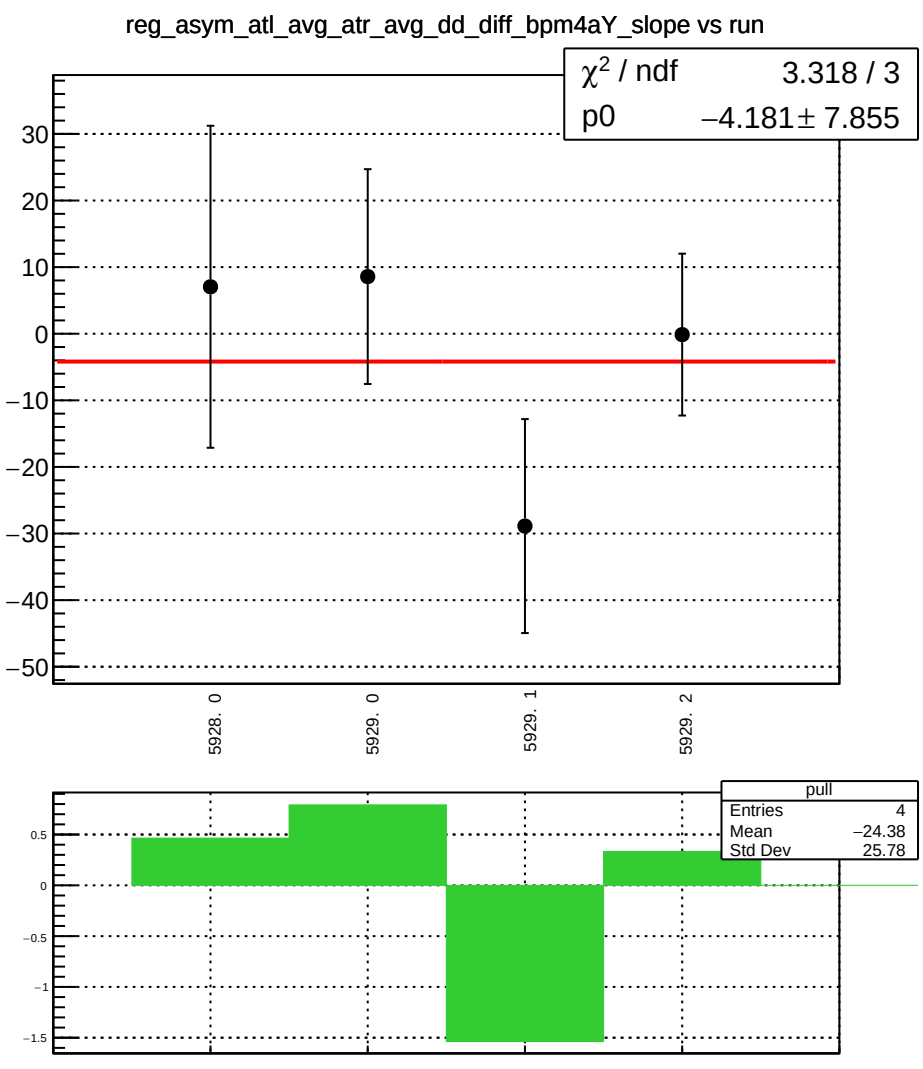

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.653 / 3
p0 409.9 ± 39.14
500
450
400
350
300
250
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12
Std Dev 13.67
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.02689
Std Dev 0.4032
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

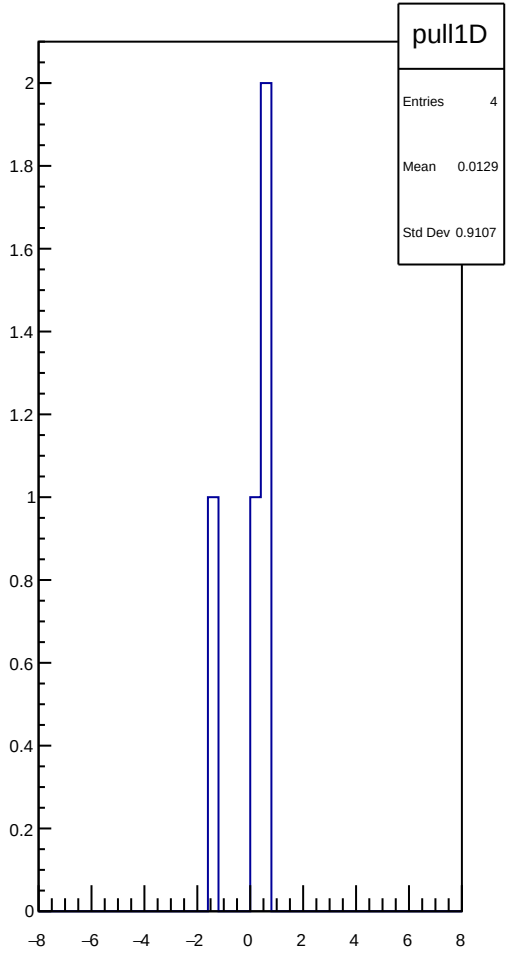

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.2905 / 3
p0 54.17 ± 28.8
140
120
100
80
60
40
20
0
−20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −7.566
Std Dev 9.794
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

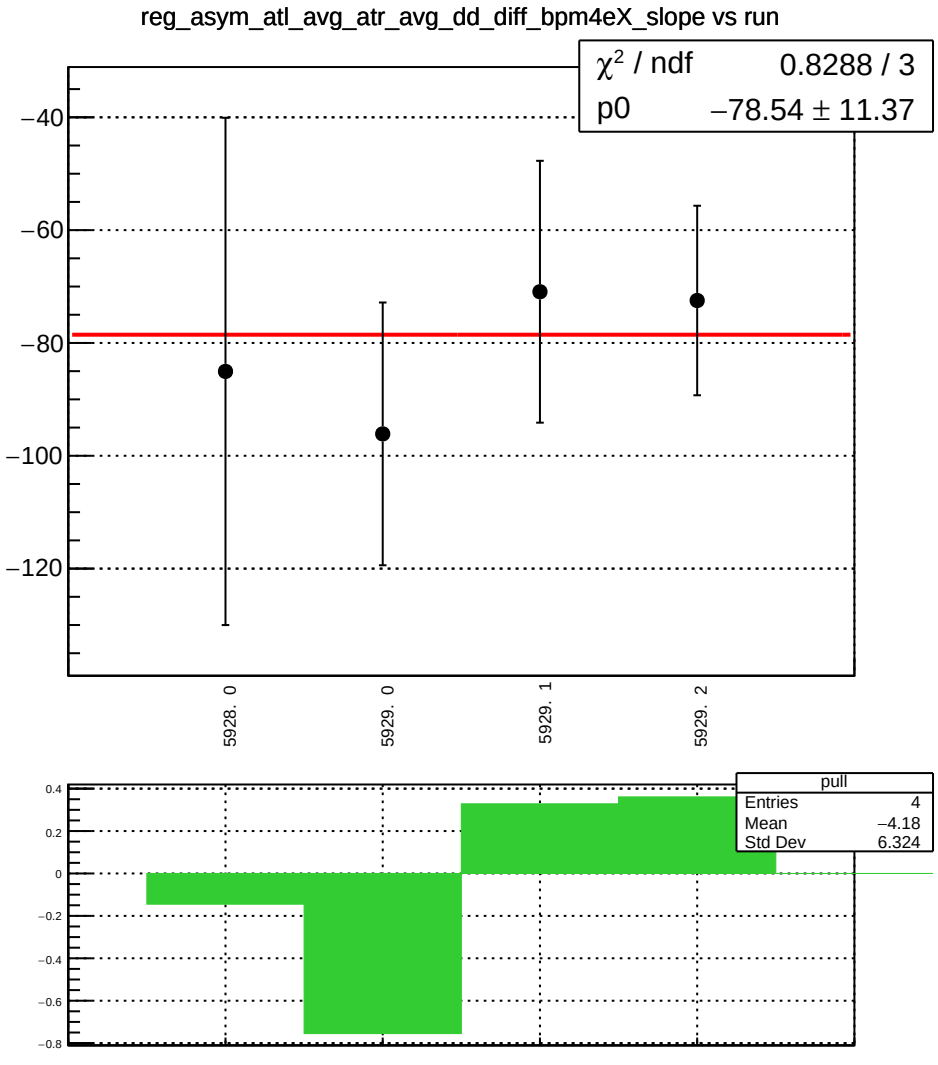

pull1D
Entries 4
Mean 0.02569
Std Dev 0.2683
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

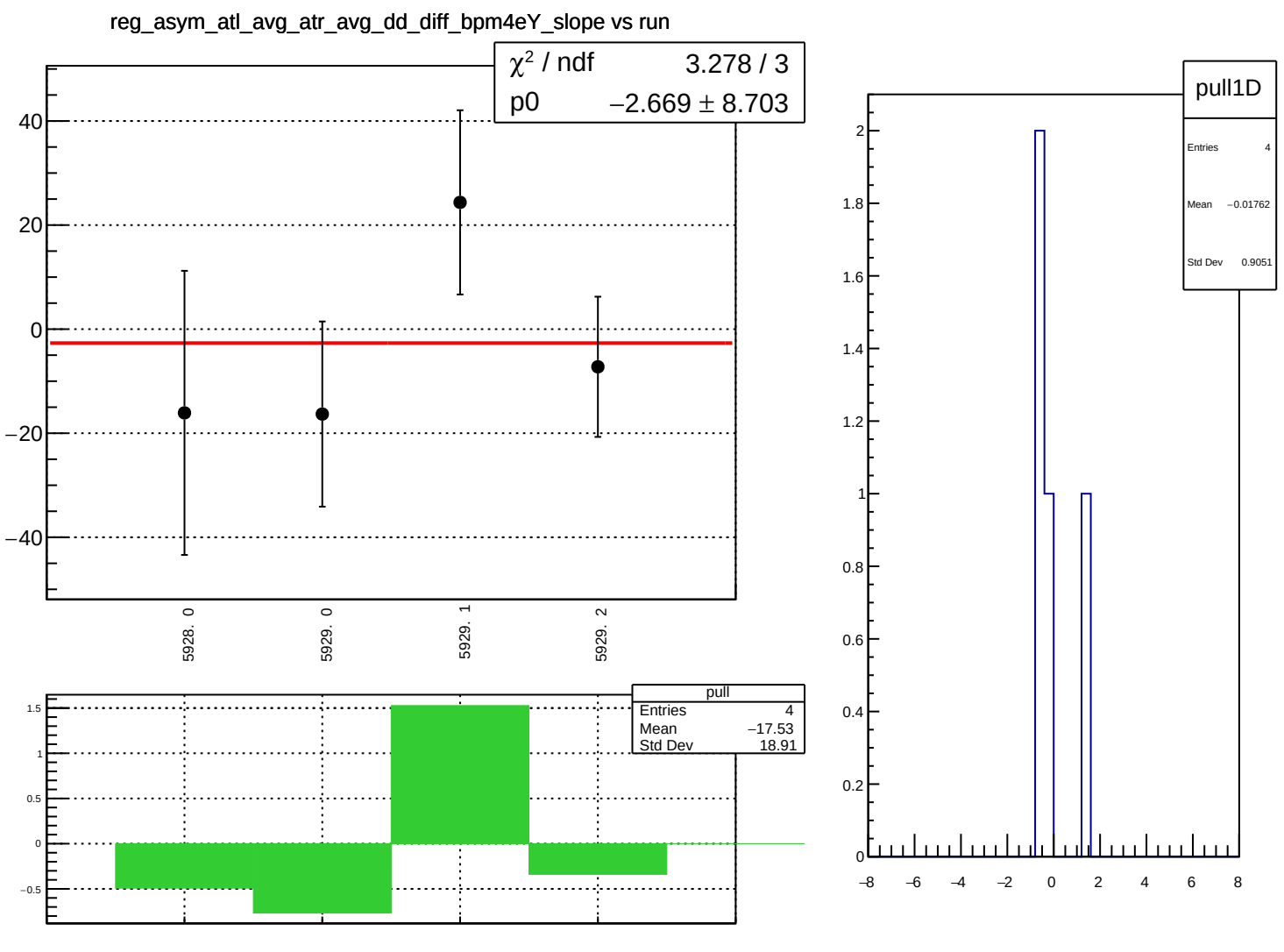

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2.265 / 3
p0 −123.6 ± 1.793
−114
−116
−118
−120
−122
−124
−126
−128
−130
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.51
Std Dev 14.22
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.04877
Std Dev 0.751
2
1.8
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

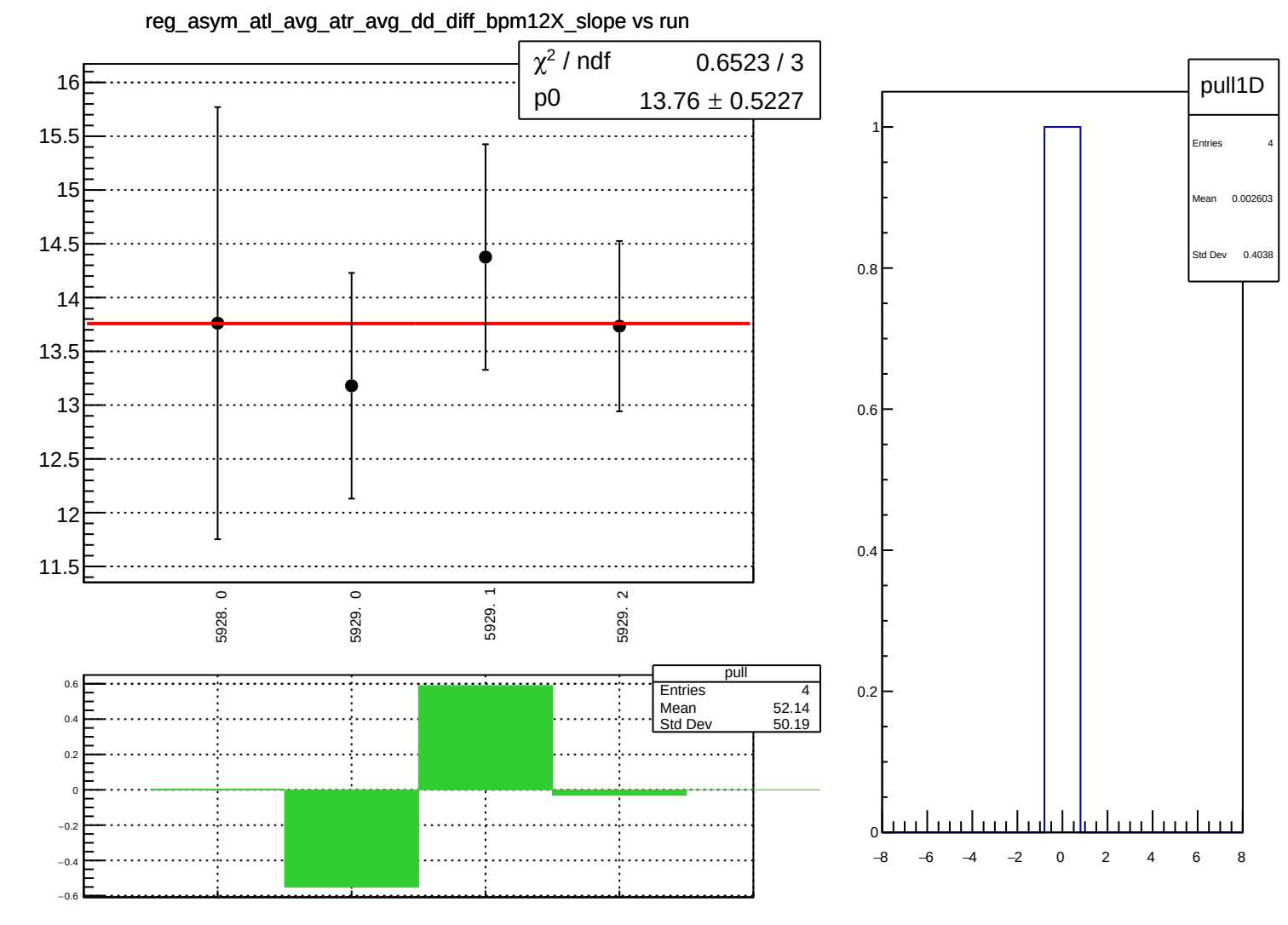

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7402 / 3
p0 50.63 ± 8.999
90
80
70
60
50
40
30
20
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.118
Std Dev 6.246
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean 0.05088
Std Dev 0.4272
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

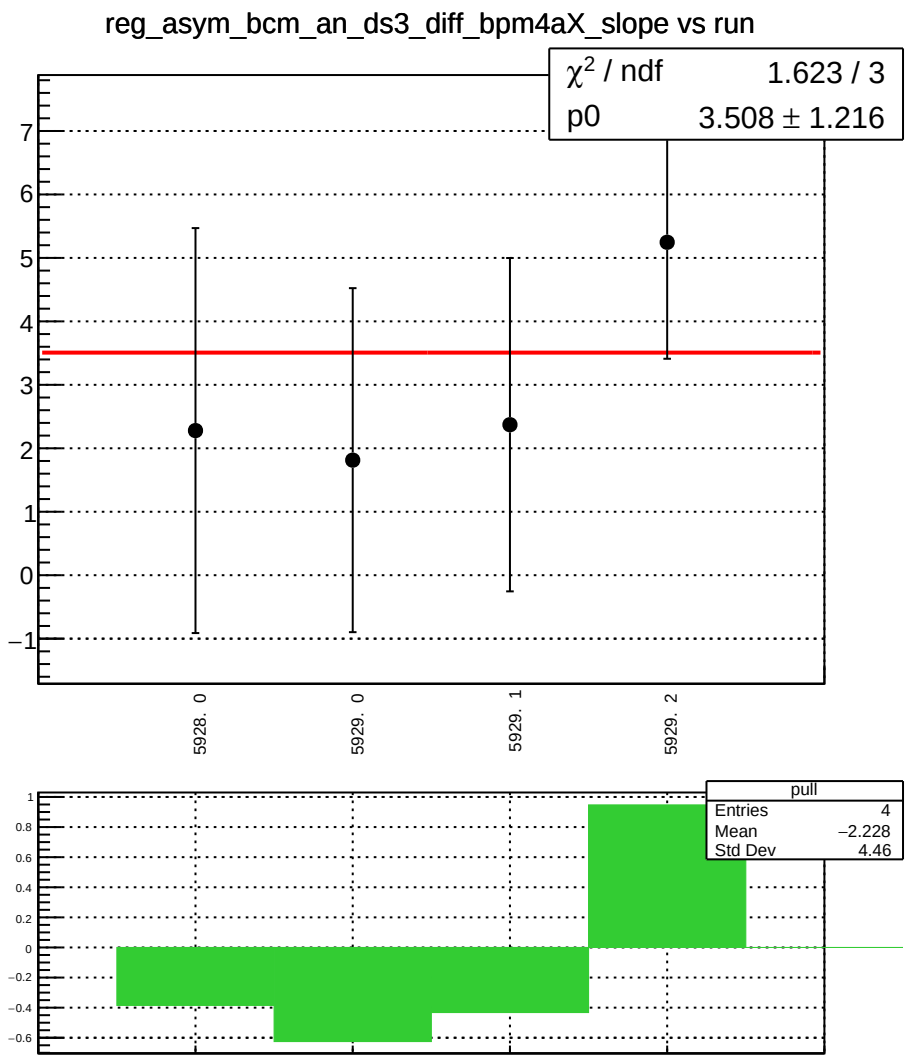

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.318 / 3
p0 −4.181 ± 7.855
30
20
10
0
−10
−20
−30
−40
−50
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −24.38
Std Dev 25.78
0.5
0
−0.5
−1
−1.5

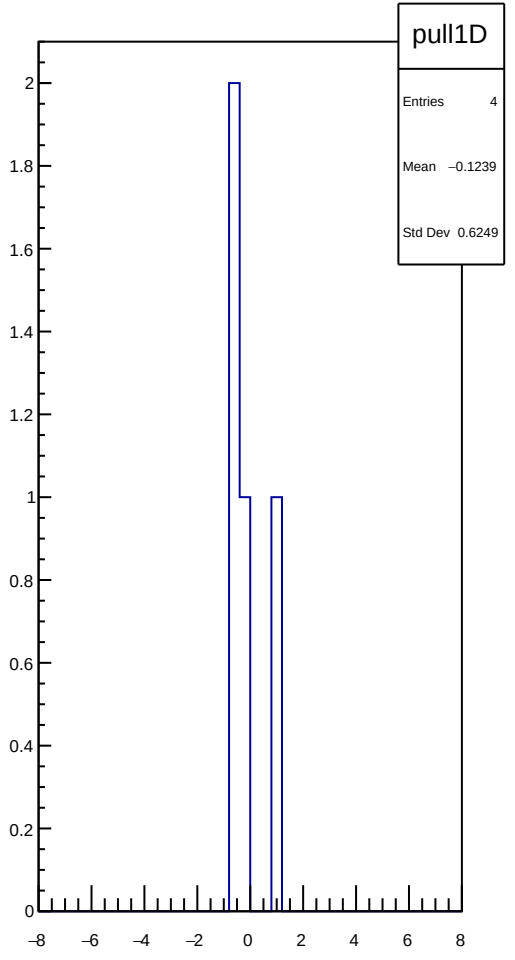

pull1D
Entries 4
Mean 0.0129
Std Dev 0.9107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

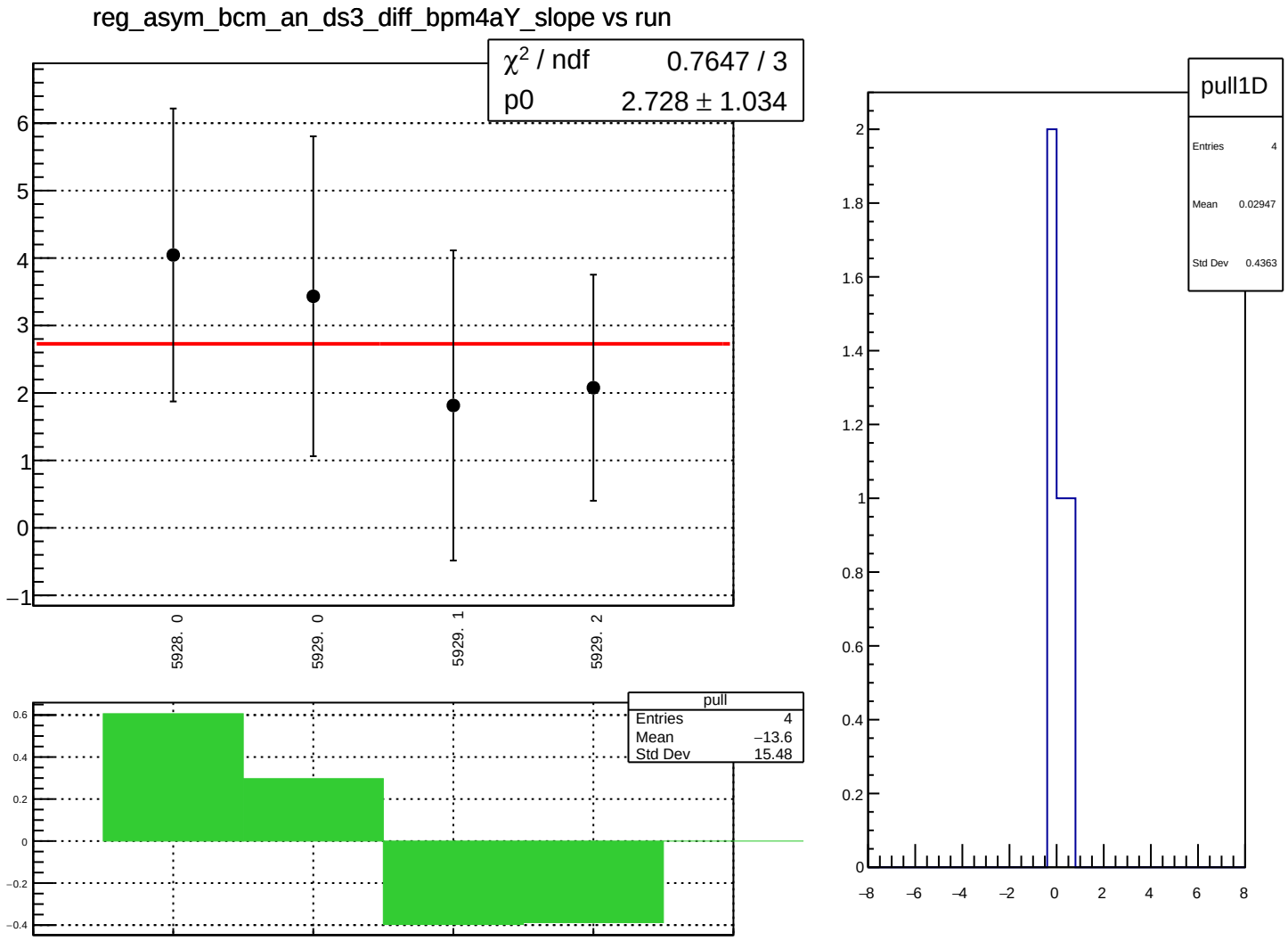

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8288 / 3
p0 −78.54 ± 11.37
−40
−60
−80
−100
−120
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.18
Std Dev 6.324
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.05259
Std Dev 0.4521
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

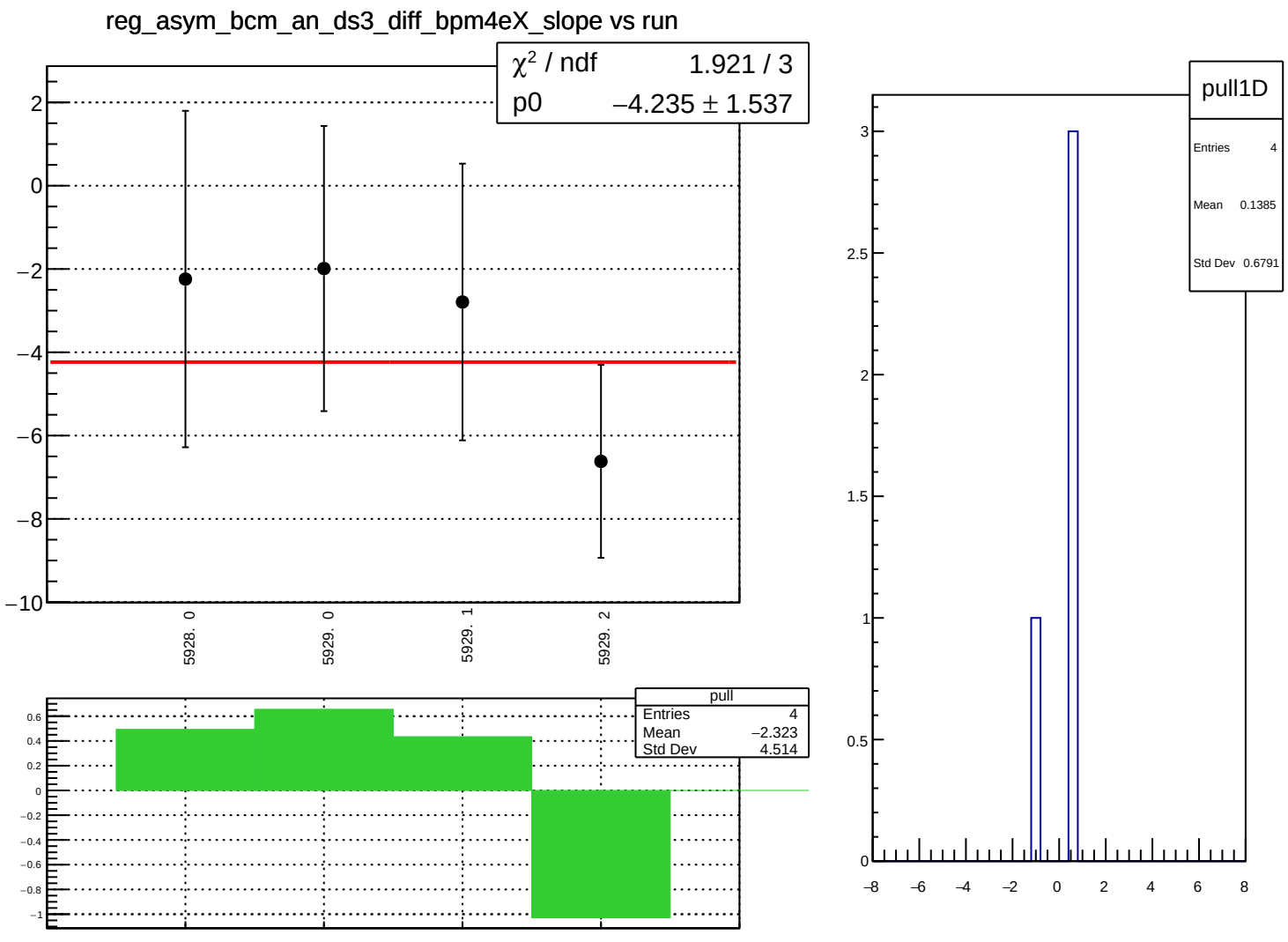

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.278 / 3
p0 −2.669 ± 8.703
40
20
0
−20
−40
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −17.53
Std Dev 18.91
1.5
1
0.5
0
−0.5
pull1D
Entries 4
Mean −0.01762
Std Dev 0.9051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

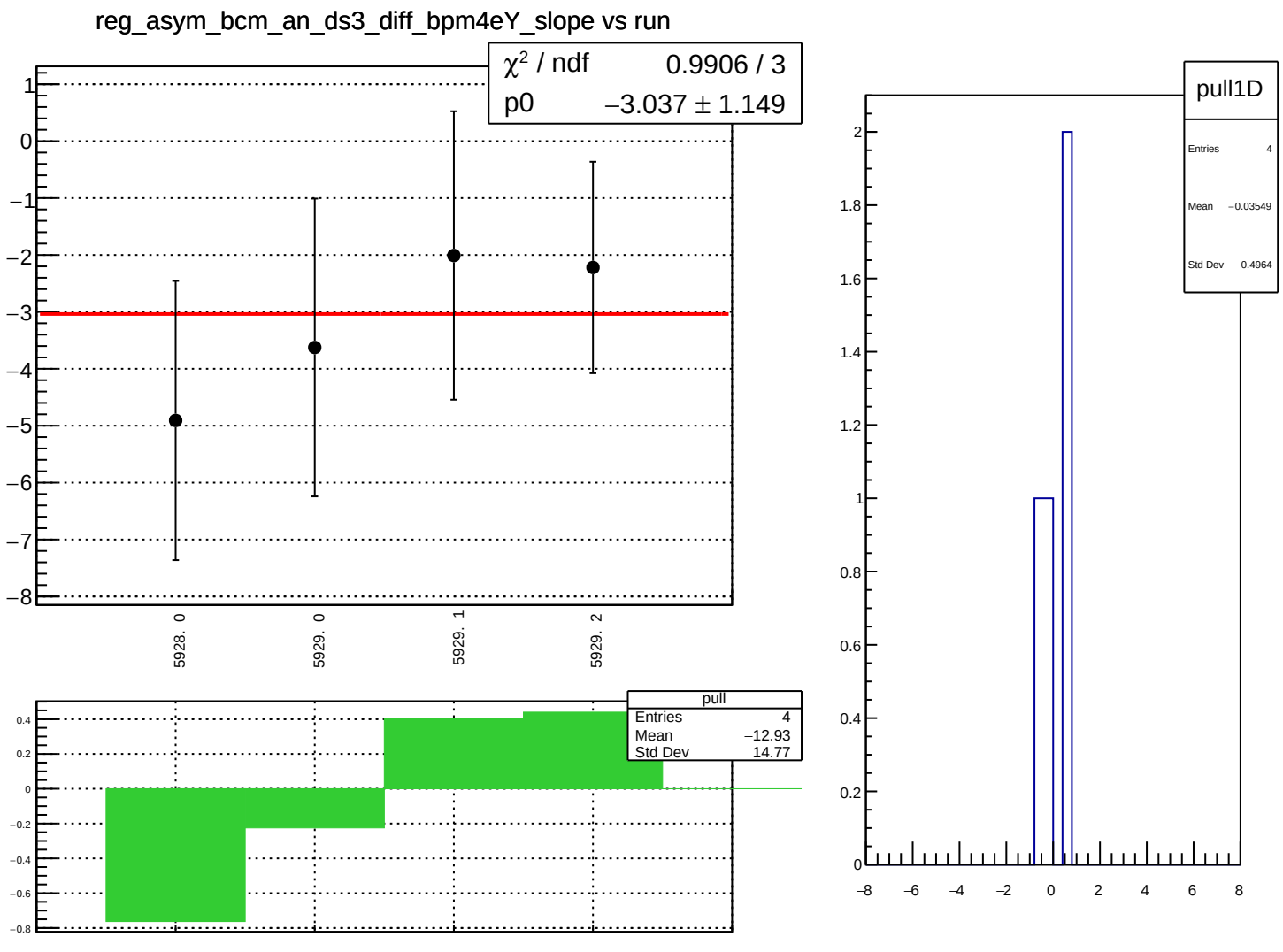

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6523 / 3
p0 13.76 ± 0.5227
16
15.5
15
14.5
14
13.5
13
12.5
12
11.5
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean 52.14
Std Dev 50.19
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean 0.002603
Std Dev 0.4038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

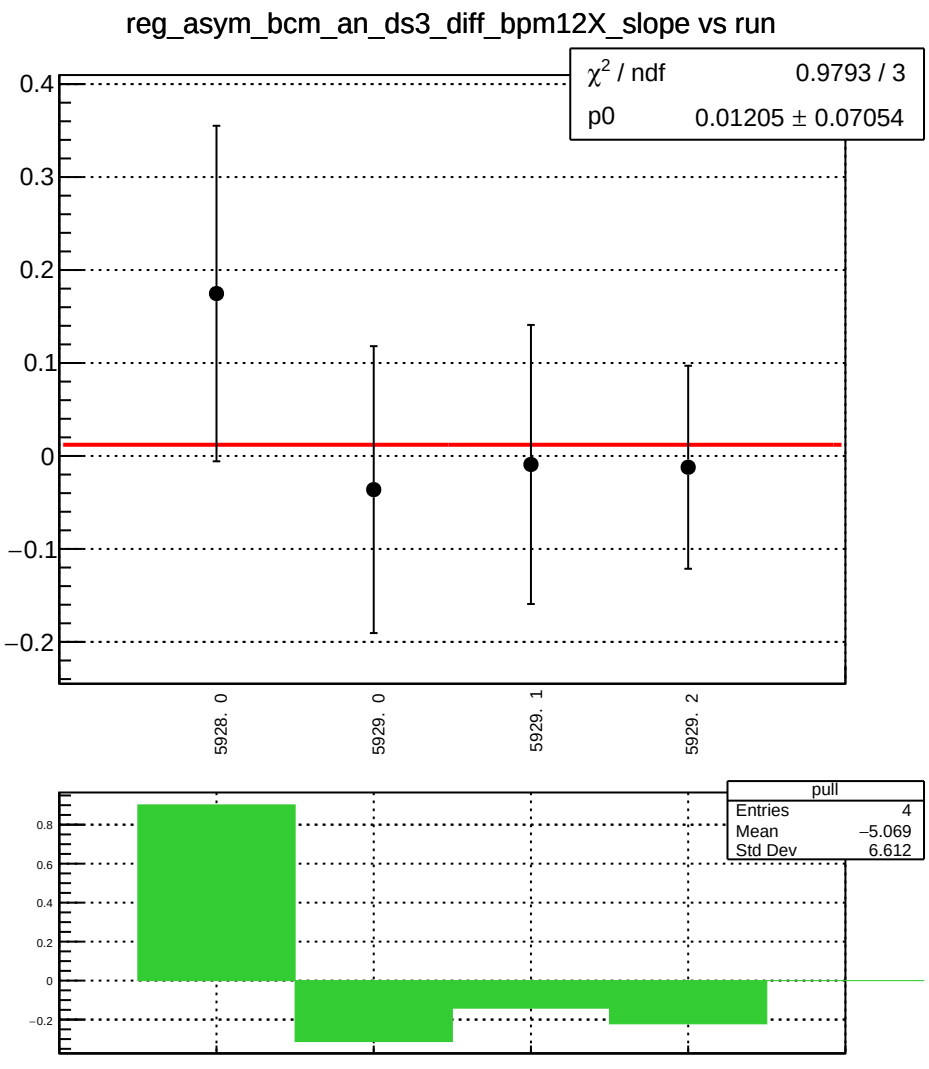

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 1.623 / 3
p0 3.508 ± 1.216
7
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.228
Std Dev 4.46
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

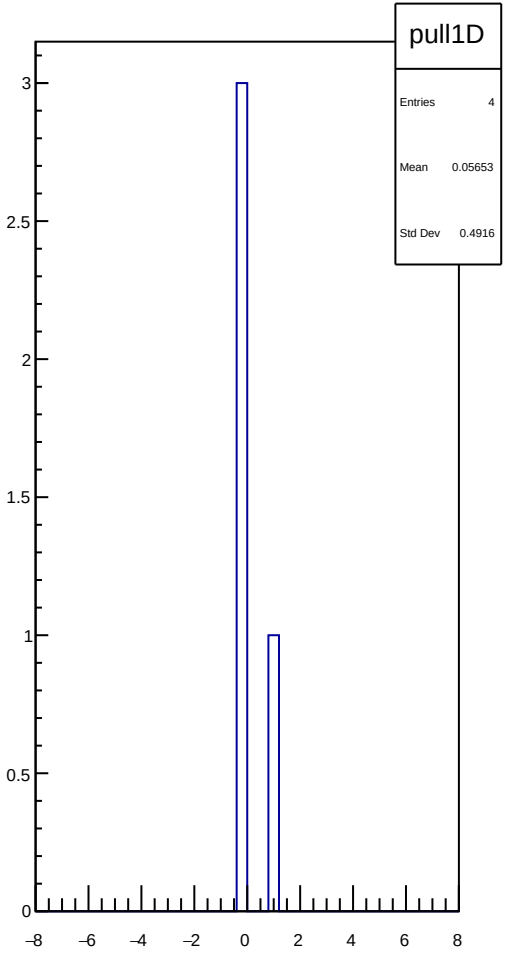

pull1D
Entries 4
Mean −0.1239
Std Dev 0.6249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

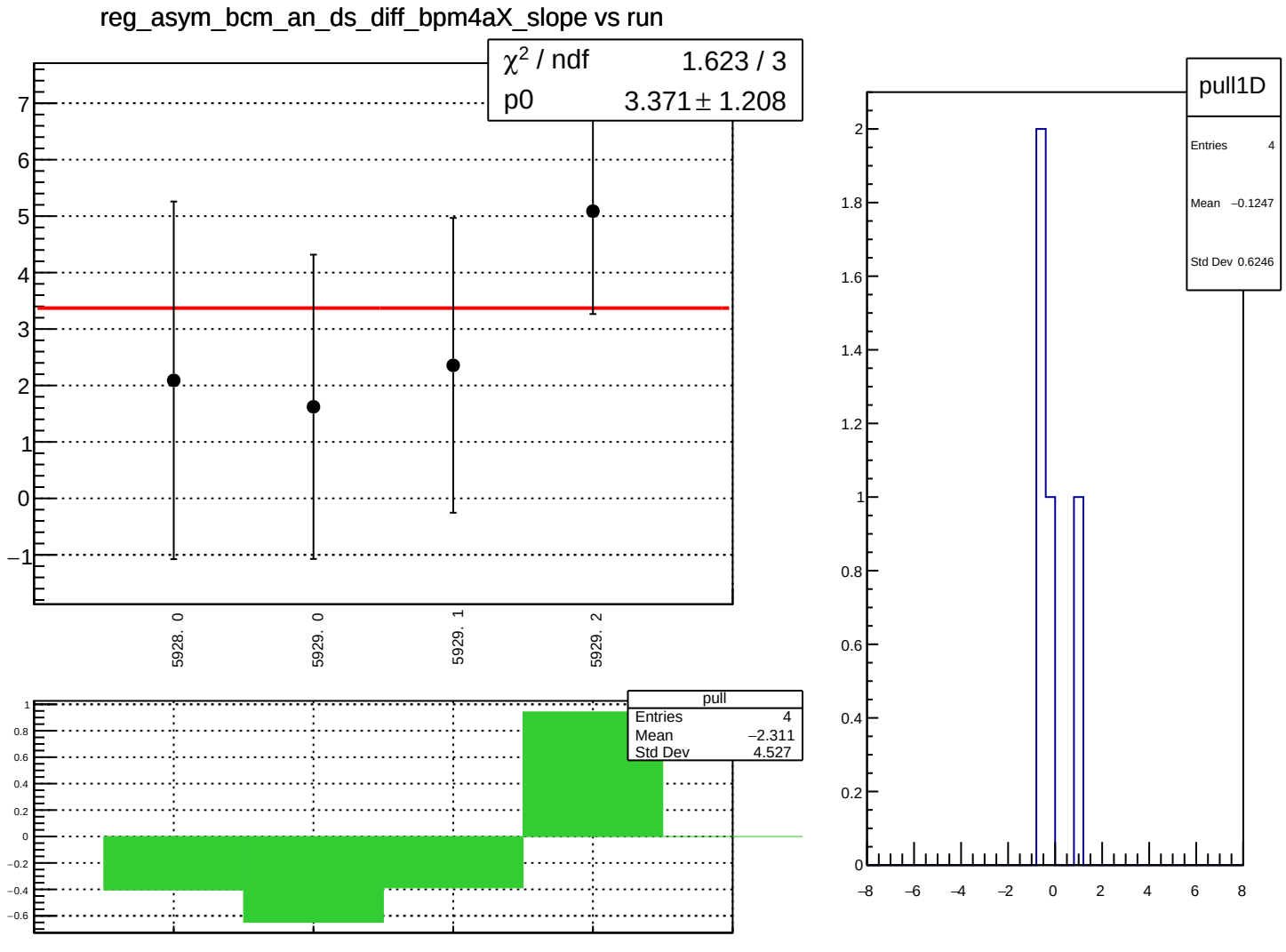

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 0.7647 / 3
p0 2.728 ± 1.034
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −13.6
Std Dev 15.48
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.02947
Std Dev 0.4363
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

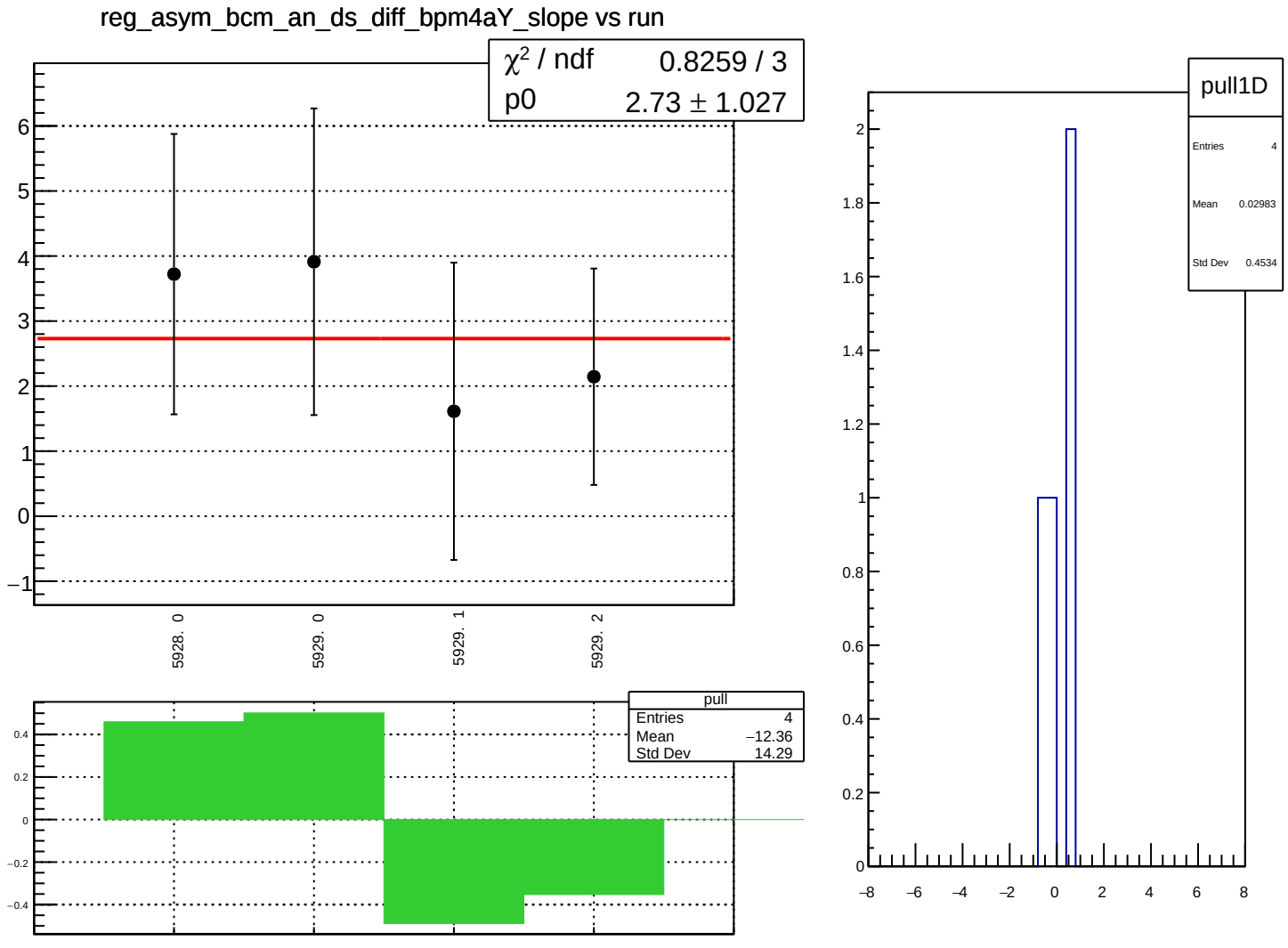

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1.921 / 3
p0 −4.235 ± 1.537
2
0
−2
−4
−6
−8
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.323
Std Dev 4.514
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean 0.1385
Std Dev 0.6791
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

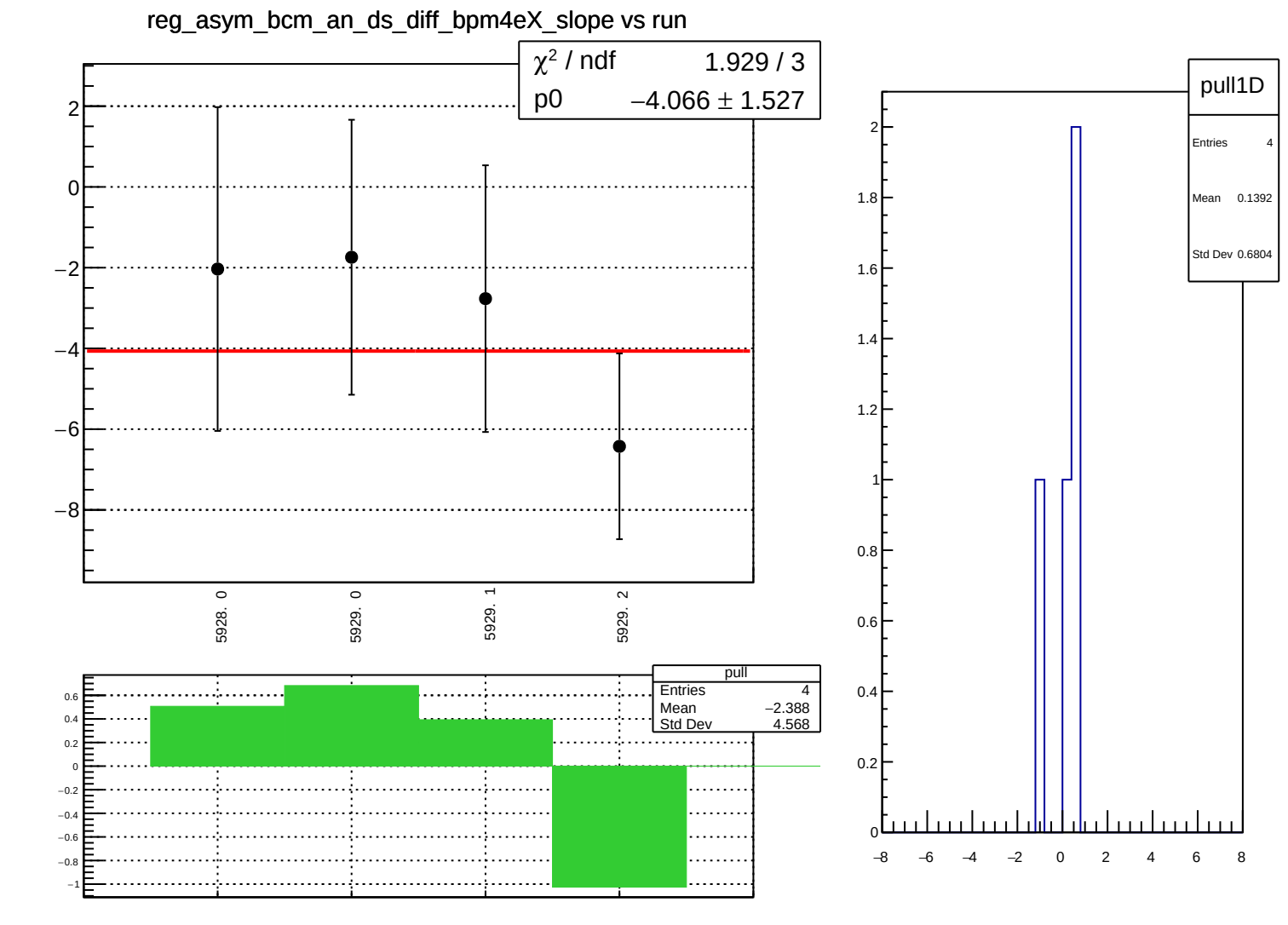

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 0.9906 / 3
p0 −3.037 ± 1.149
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.93
Std Dev 14.77
pull1D
Entries 4
Mean −0.03549
Std Dev 0.4964

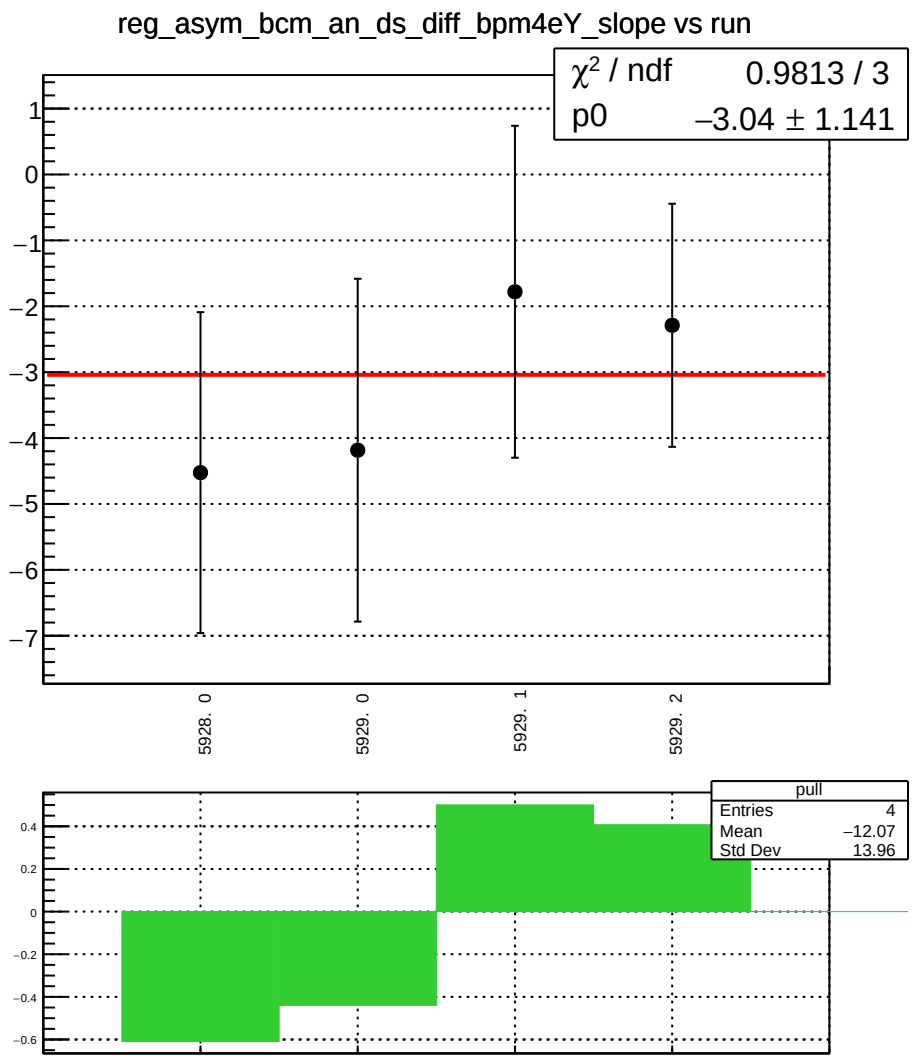

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 0.9793 / 3
p0 0.01205 ± 0.07054
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.069
Std Dev 6.612
0.8
0.6
0.4
0.2
0
−0.2

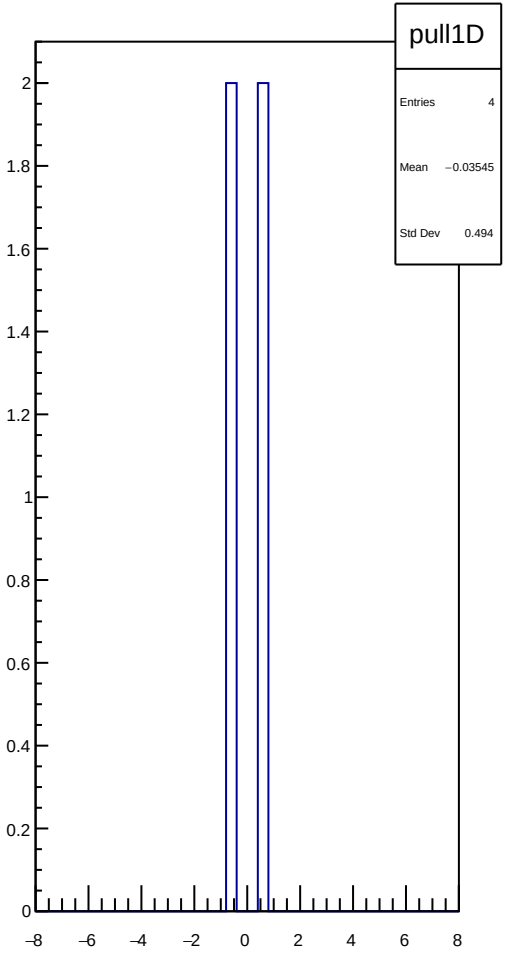

pull1D
Entries 4
Mean 0.05653
Std Dev 0.4916
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

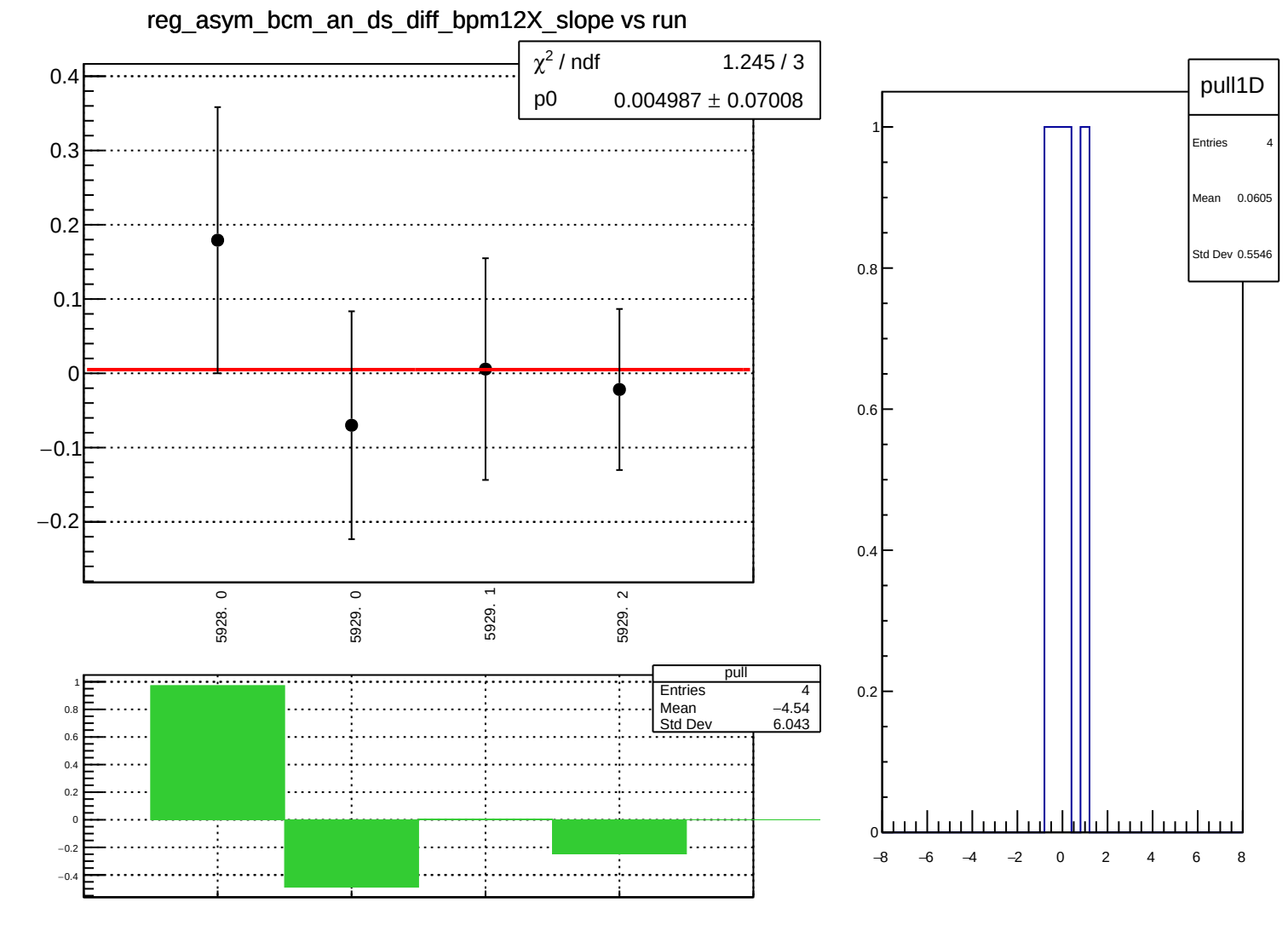

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 1.623 / 3
p0 3.371 ± 1.208
7
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.311
Std Dev 4.527
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 4
Mean −0.1247
Std Dev 0.6246
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

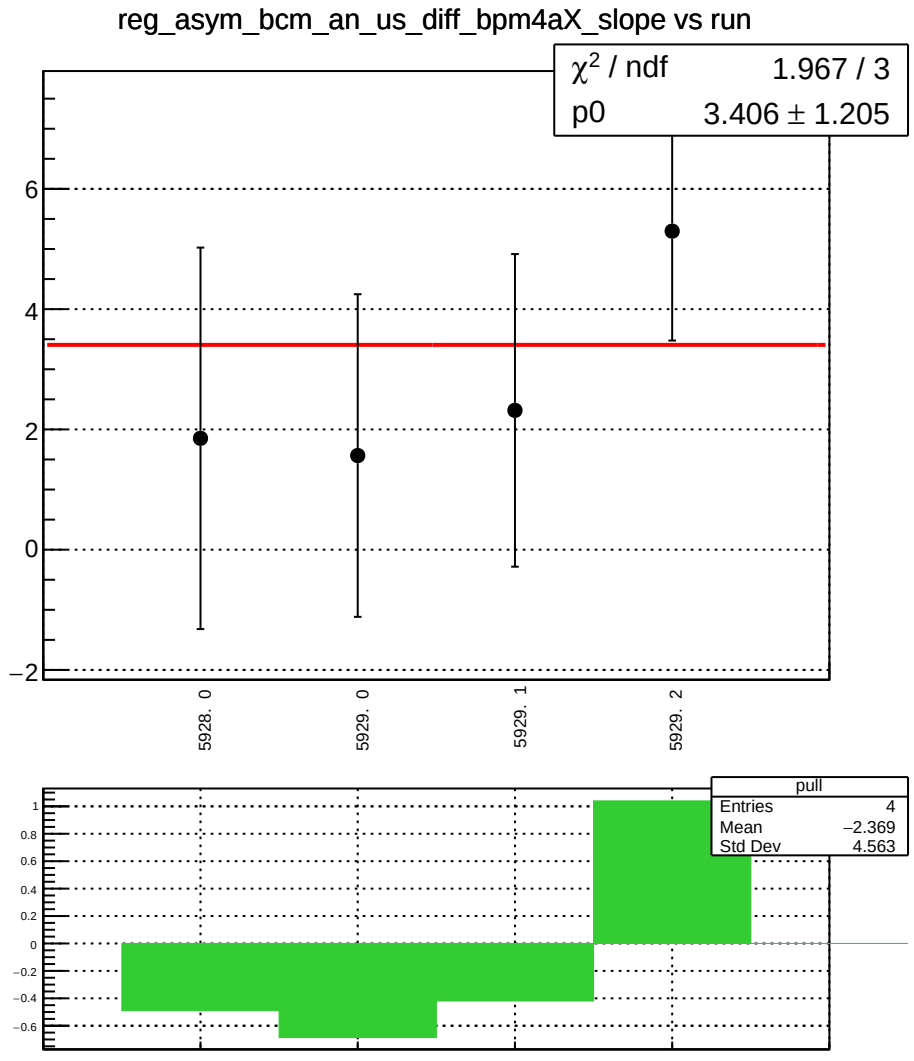

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 0.8259 / 3
p0 2.73 ± 1.027
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.36
Std Dev 14.29
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.02983
Std Dev 0.4534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

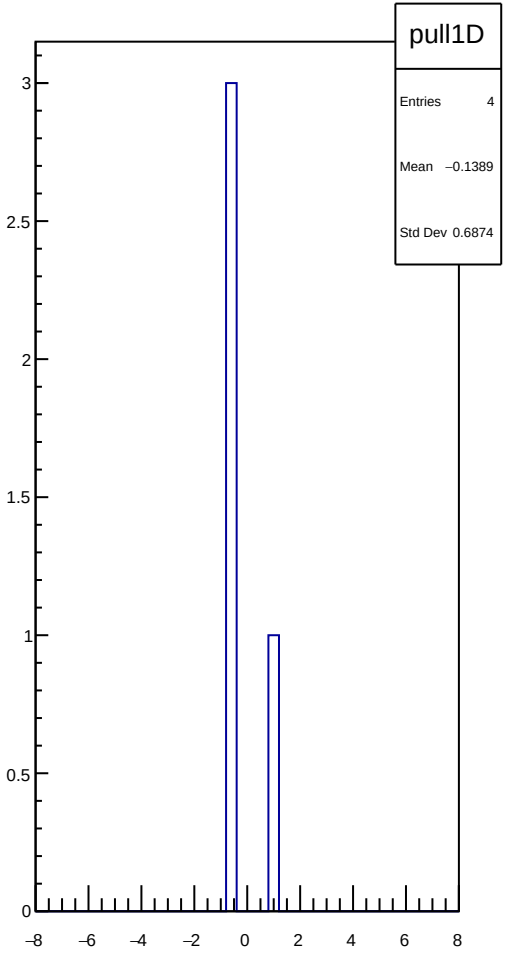

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.929 / 3
p0 −4.066 ± 1.527
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.388
Std Dev 4.568
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 4
Mean 0.1392
Std Dev 0.6804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

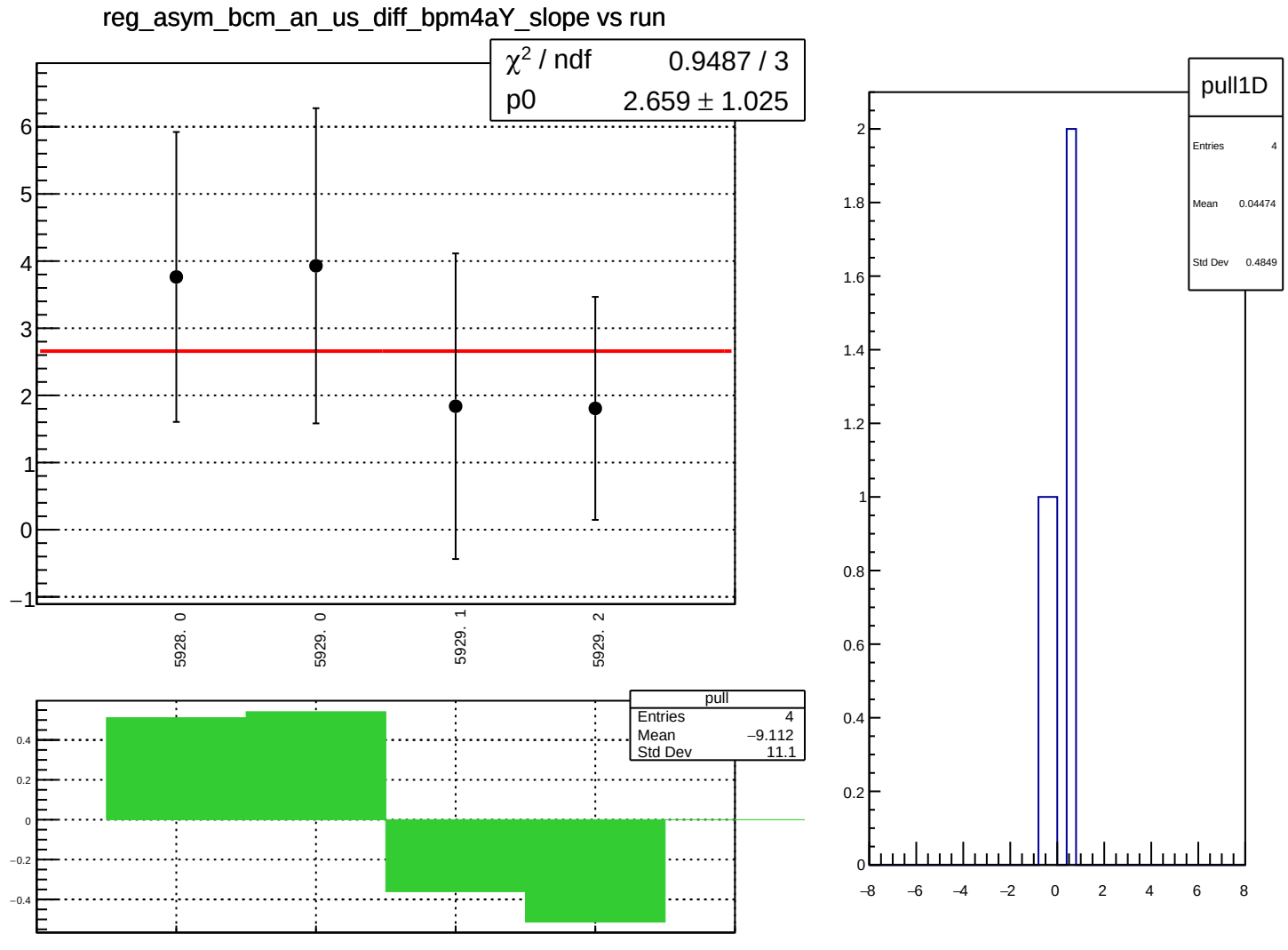

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 0.9813 / 3
p0 −3.04 ± 1.141
1
0
−1
−2
−3
−4
−5
−6
−7
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −12.07
Std Dev 13.96
0.4
0.2
0
−0.2
−0.4
−0.6

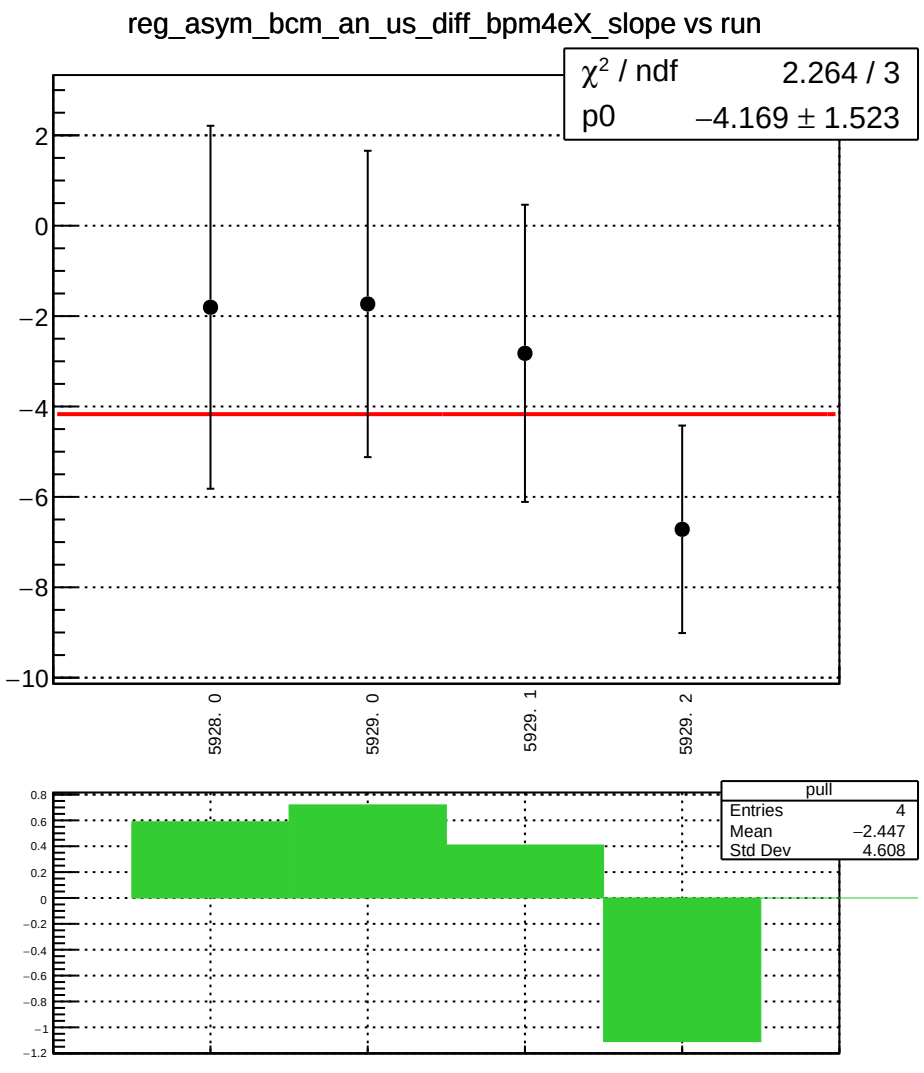

pull1D
Entries 4
Mean −0.03545
Std Dev 0.494
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

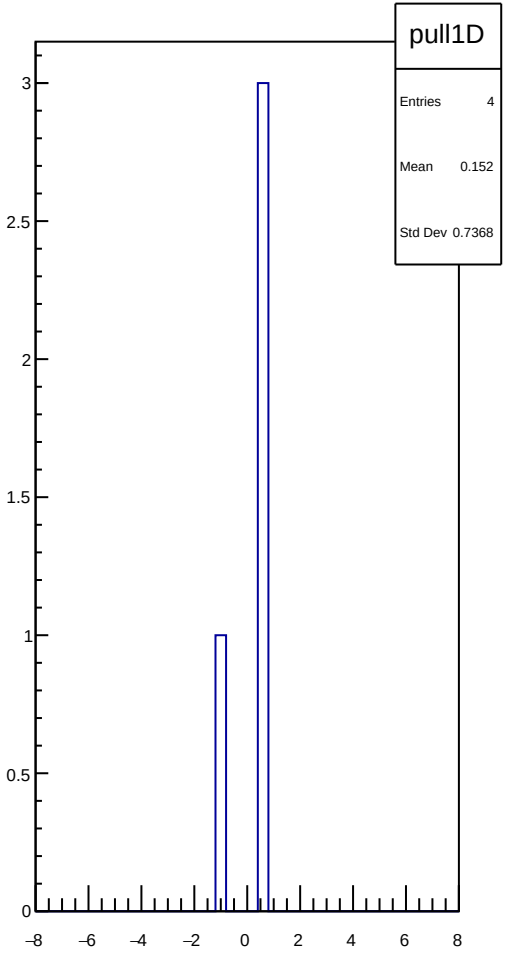

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 1.245 / 3
p0 0.004987 ± 0.07008
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −4.54
Std Dev 6.043
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.0605
Std Dev 0.5546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

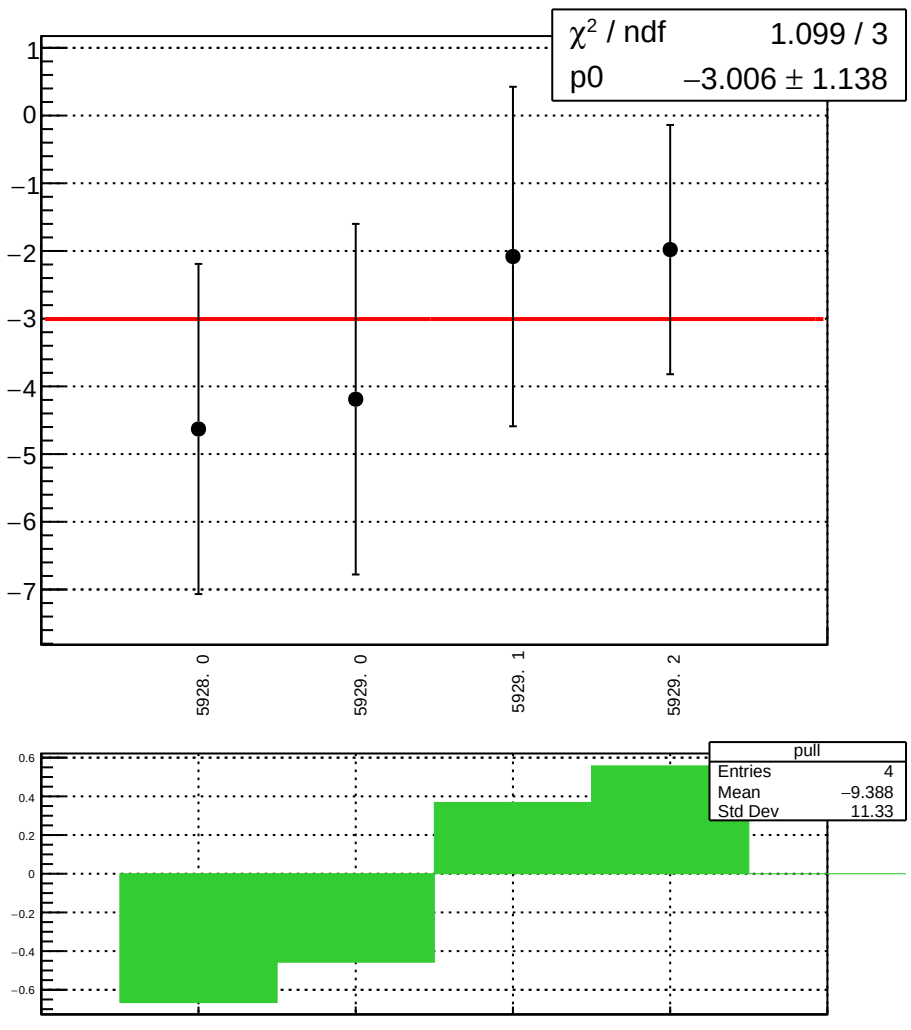

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 1.967 / 3
p0 3.406 ± 1.205
6
4
2
0
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.369
Std Dev 4.563
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

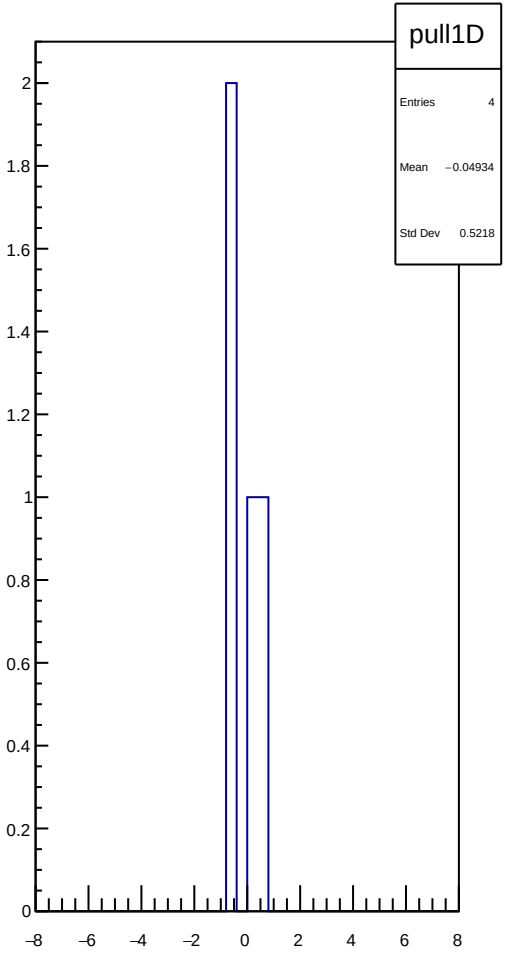

pull1D
Entries 4
Mean −0.1389
Std Dev 0.6874
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

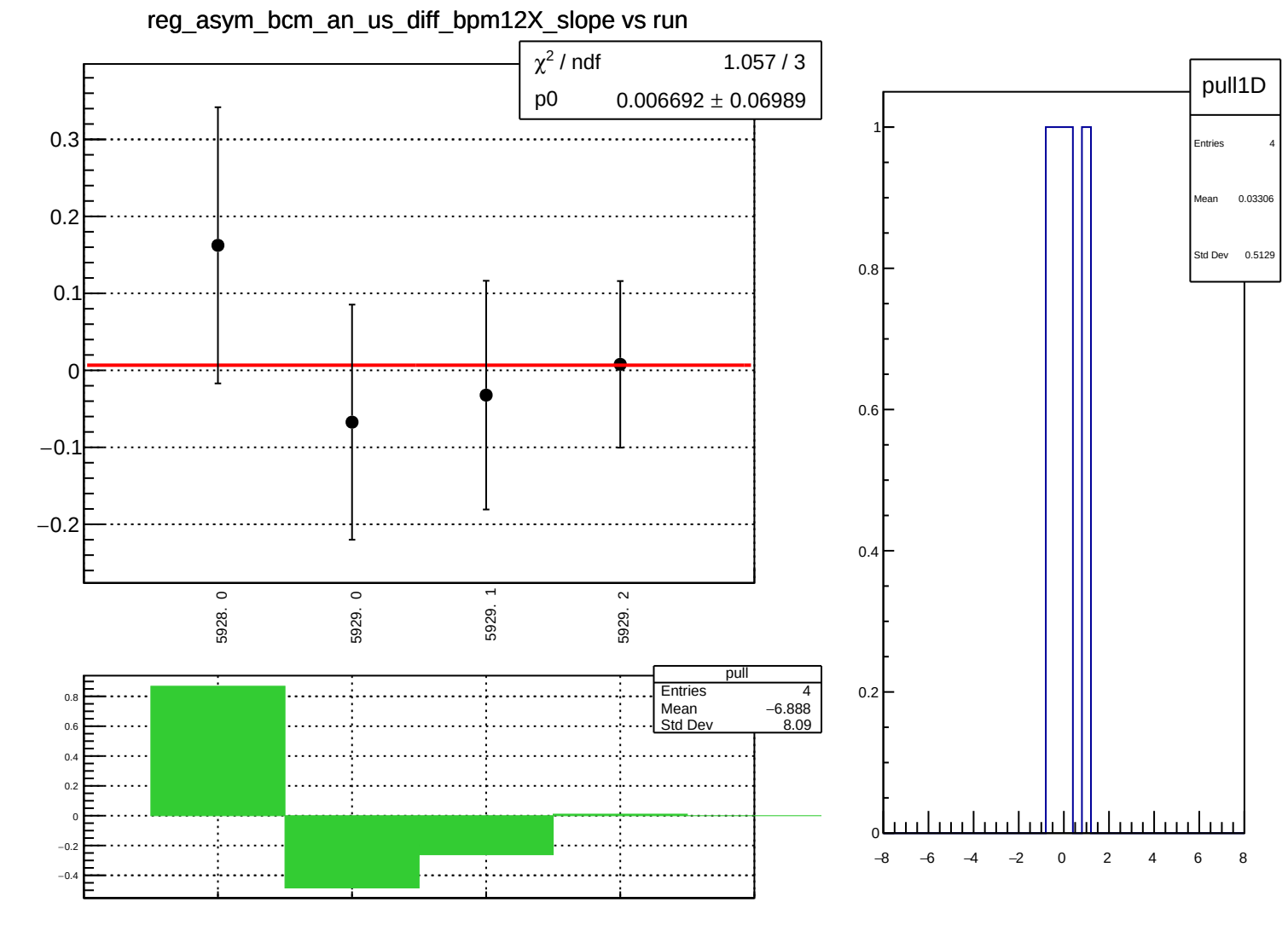

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 0.9487 / 3
p0 2.659 ± 1.025
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.112
Std Dev 11.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.04474
Std Dev 0.4849
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

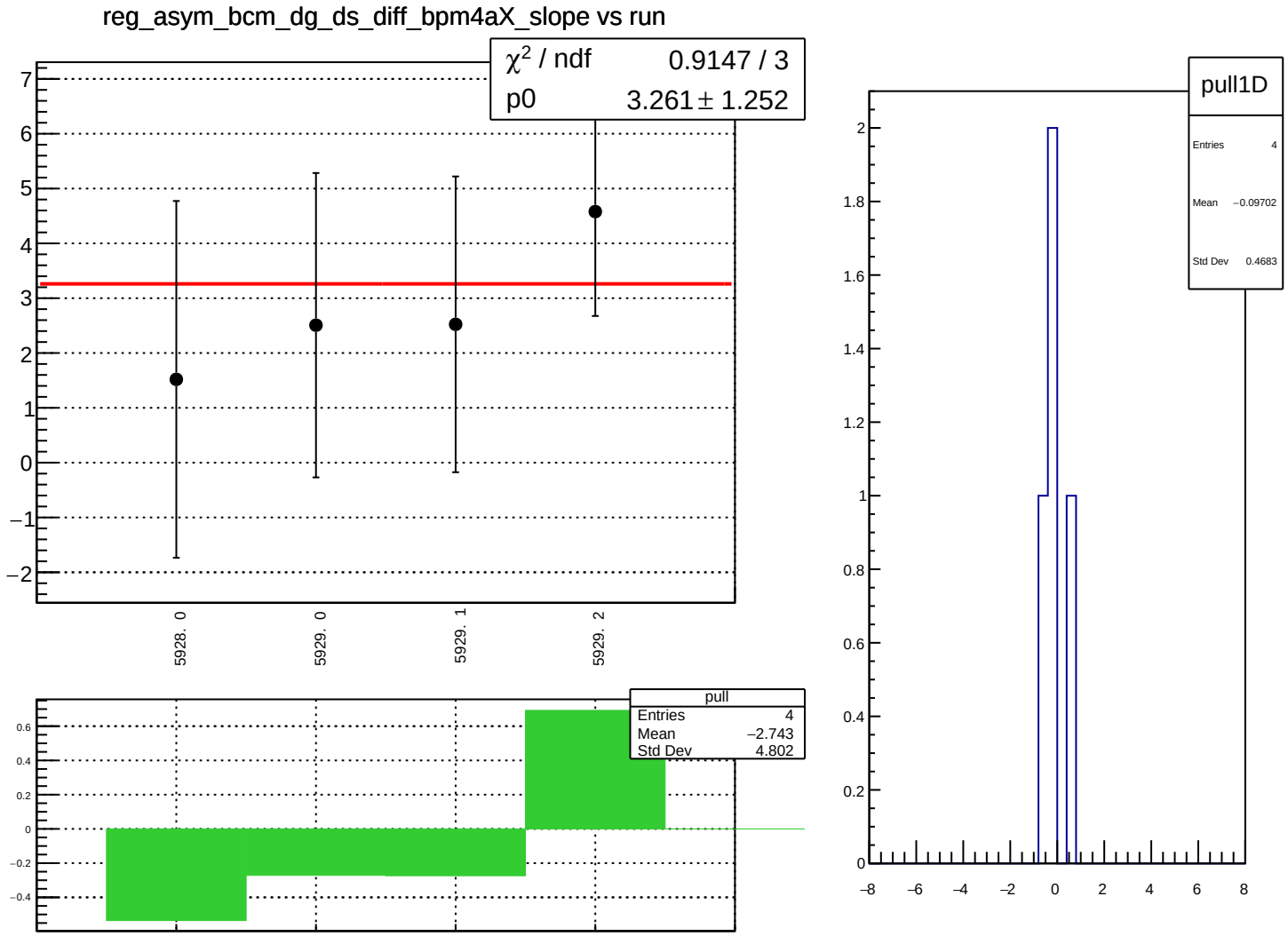

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2.264 / 3
p0 −4.169 ± 1.523
2
0
−2
−4
−6
−8
−10
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.447
Std Dev 4.608
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

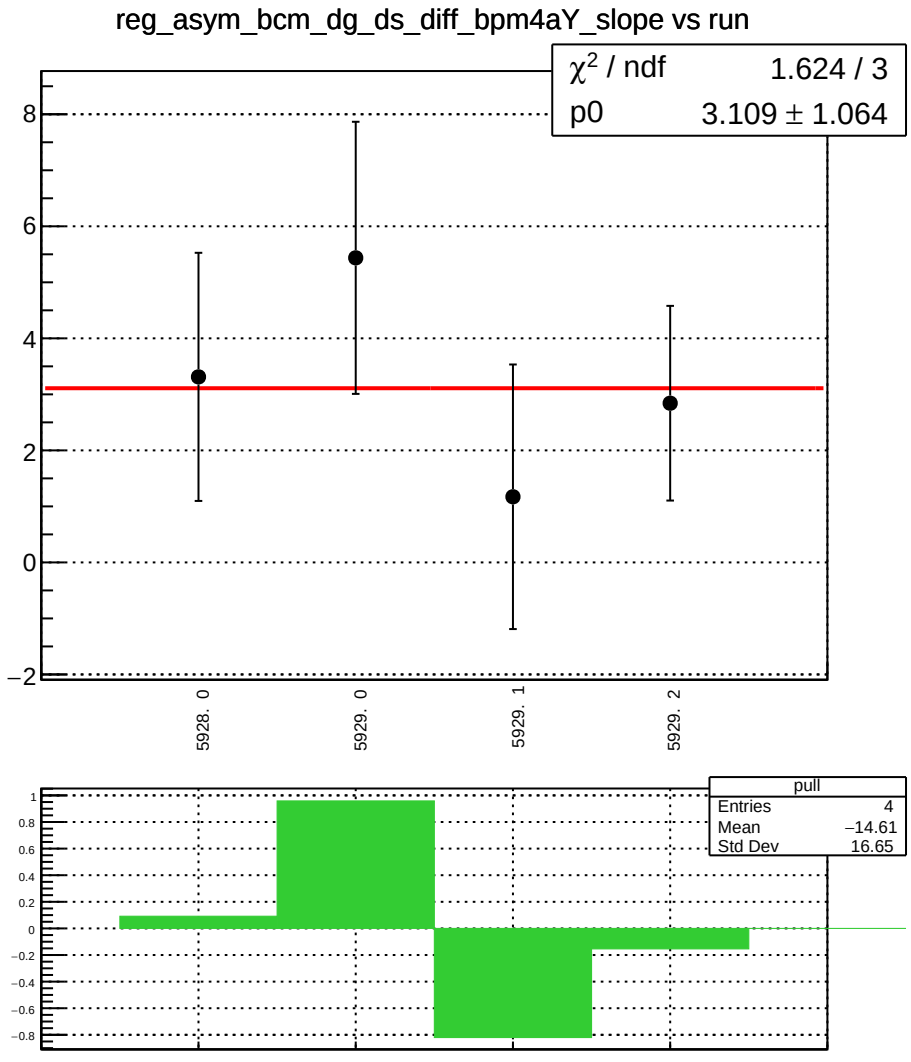

pull1D
Entries 4
Mean 0.152
Std Dev 0.7368
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

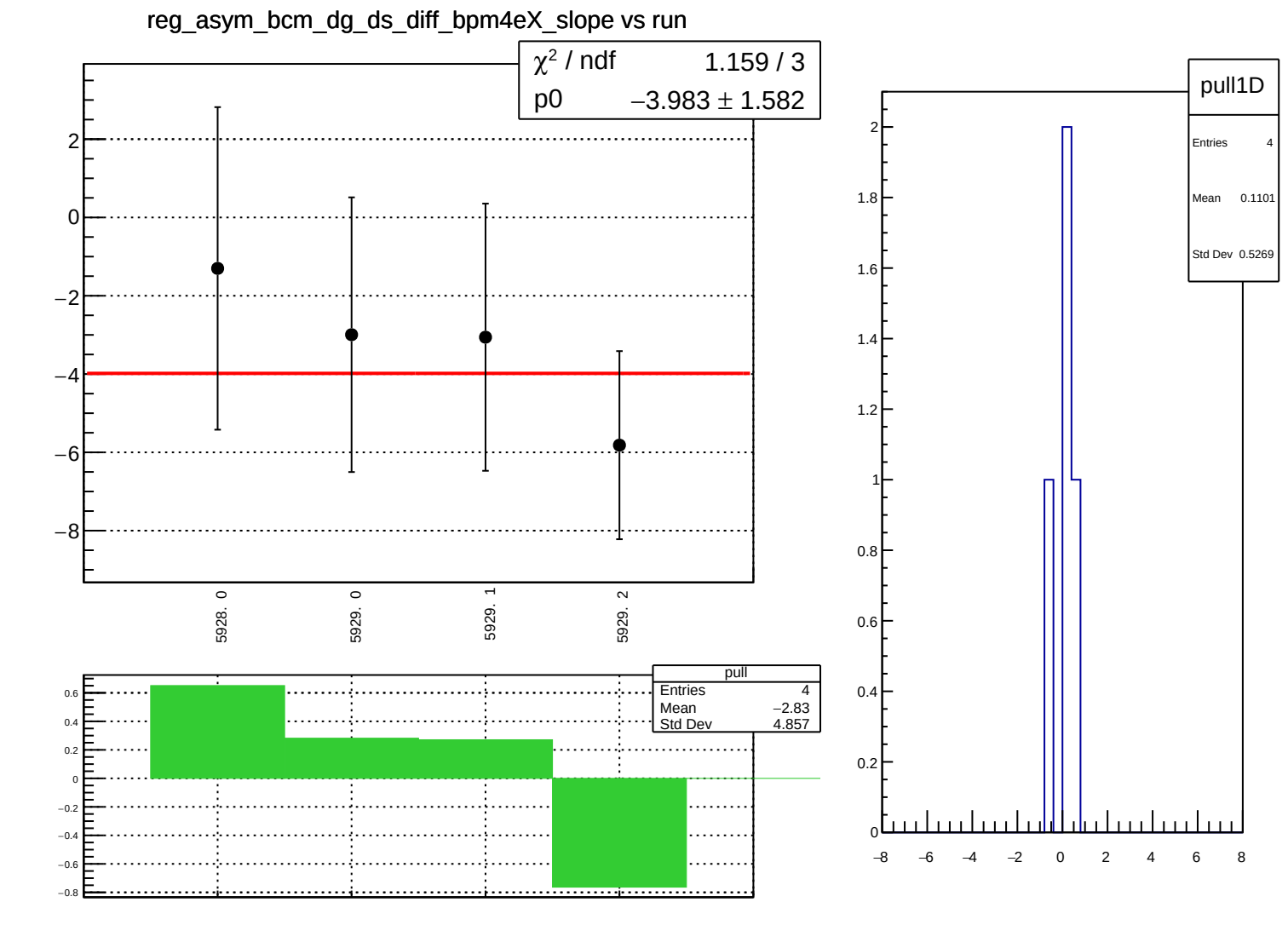

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 1.099 / 3
p0 −3.006 ± 1.138
1
0
−1
−2
−3
−4
−5
−6
−7
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −9.388
Std Dev 11.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

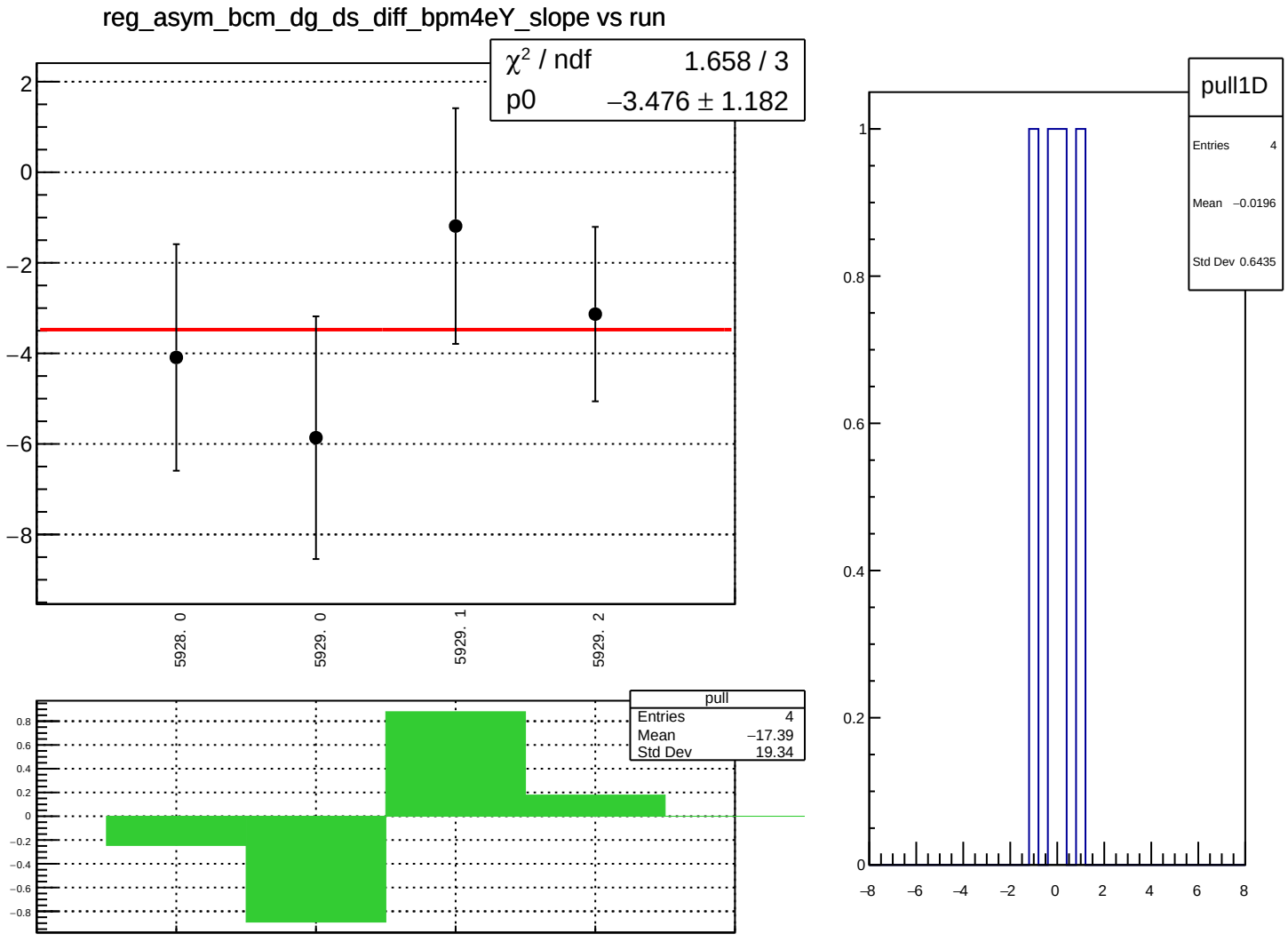

pull1D
Entries 4
Mean −0.04934
Std Dev 0.5218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

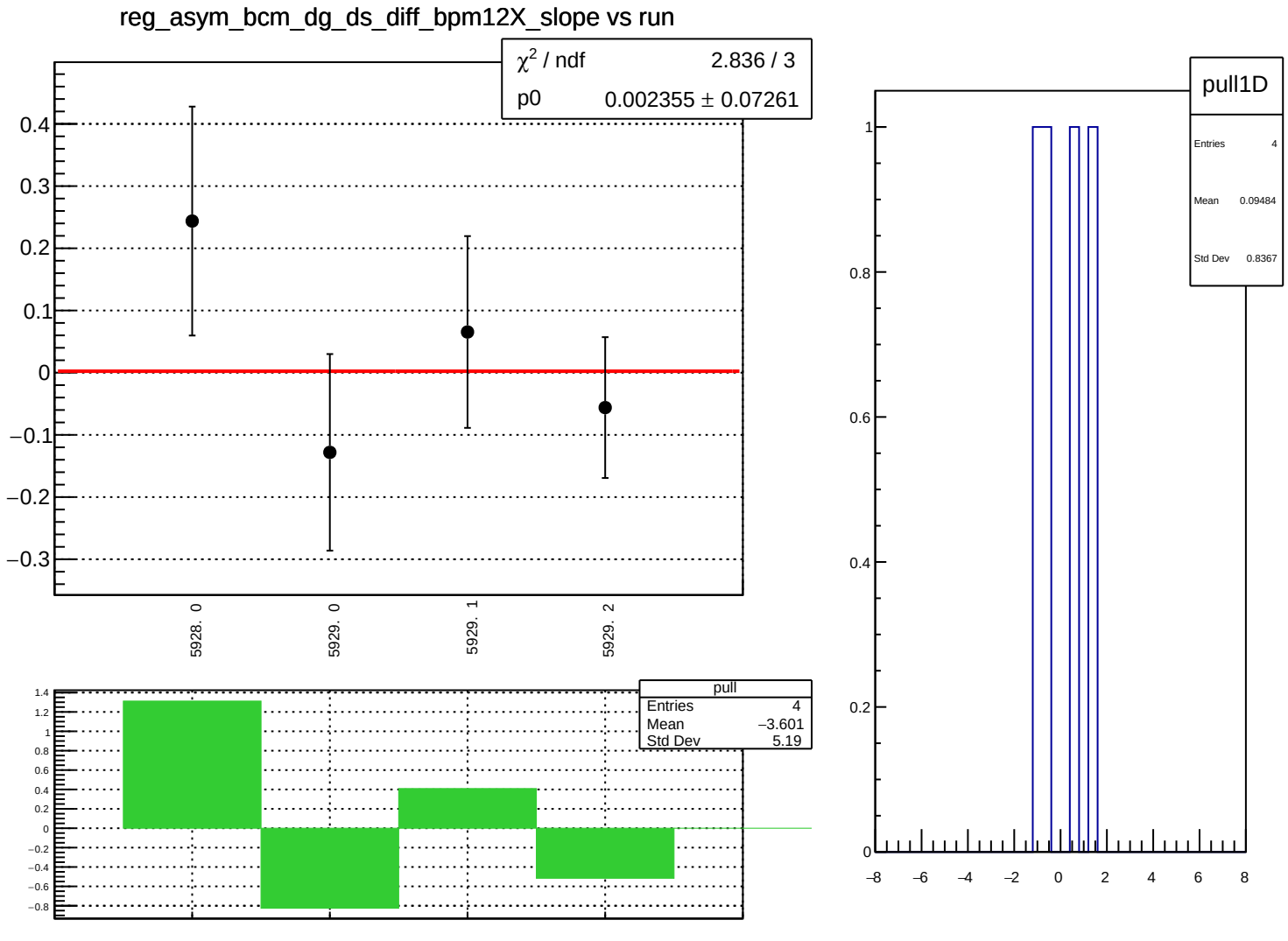

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1.057 / 3
p0 0.006692 ± 0.06989
0.3
0.2
0.1
0
−0.1
−0.2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −6.888
Std Dev 8.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.03306
Std Dev 0.5129
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

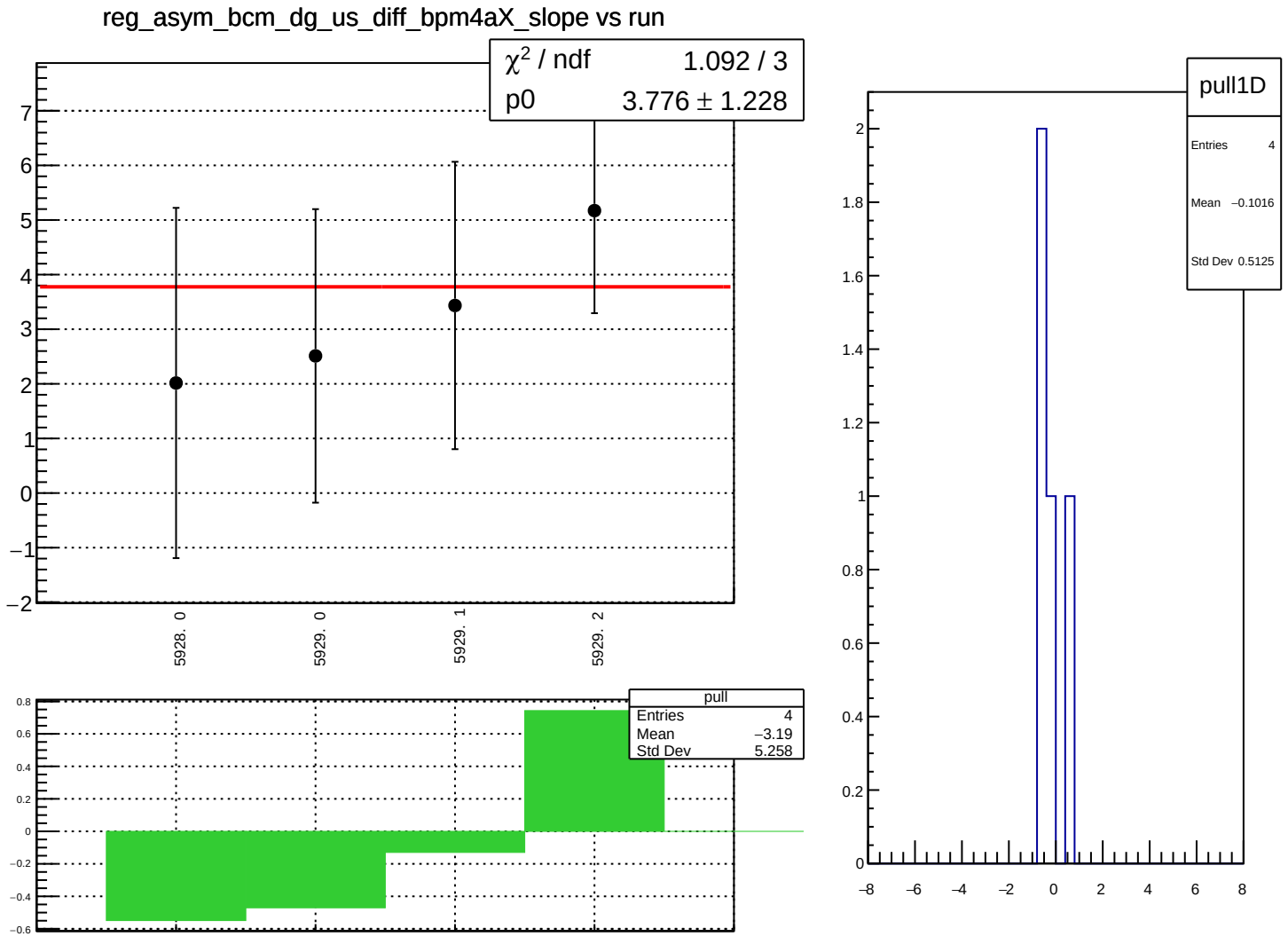

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 0.9147 / 3
p0 3.261 ± 1.252
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.743
Std Dev 4.802
pull1D
Entries 4
Mean −0.09702
Std Dev 0.4683

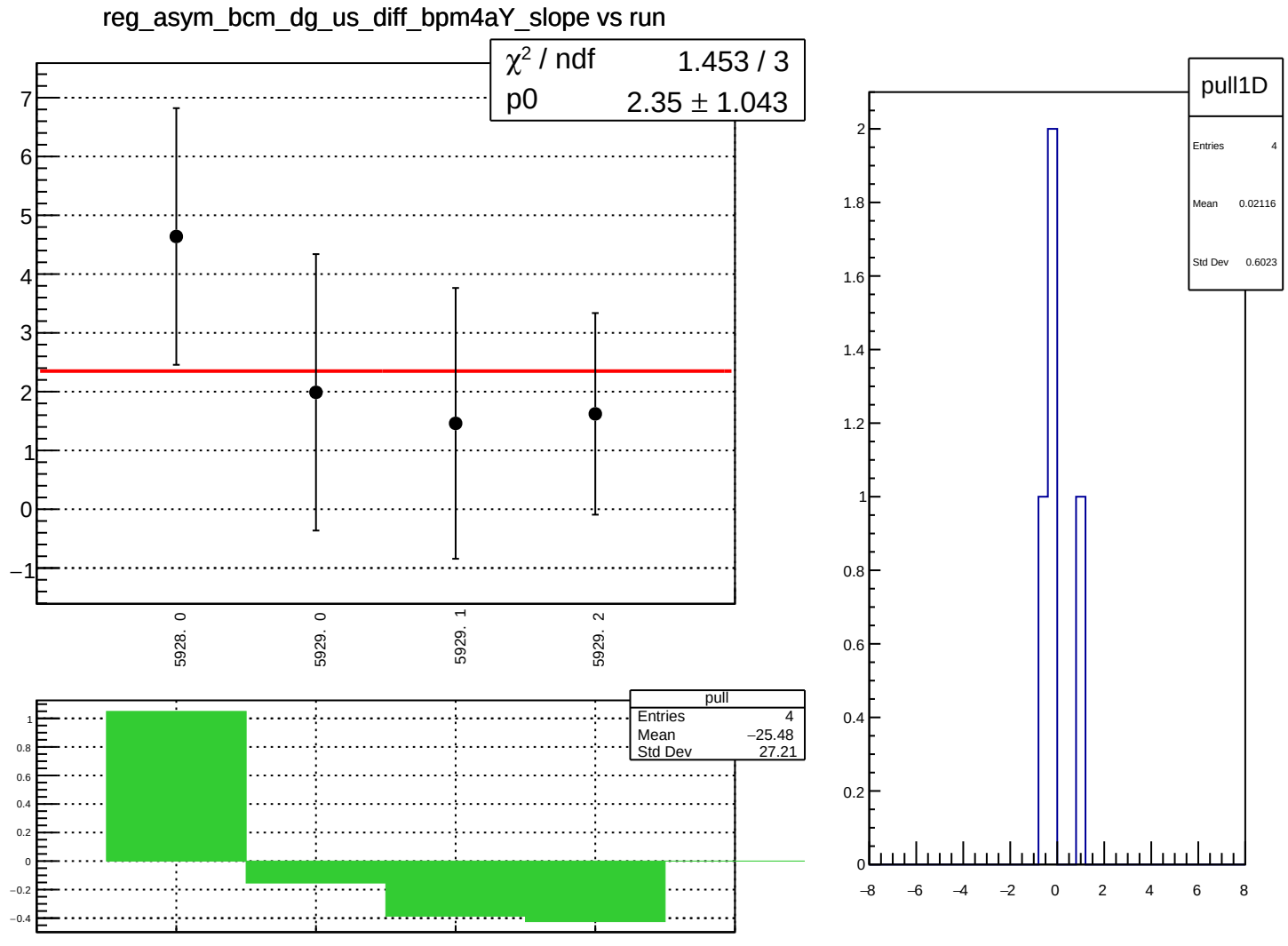

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 1.624 / 3
p0 3.109 ± 1.064
8
6
4
2
0
−2
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −14.61
Std Dev 16.65
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.01893
Std Dev 0.6369
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

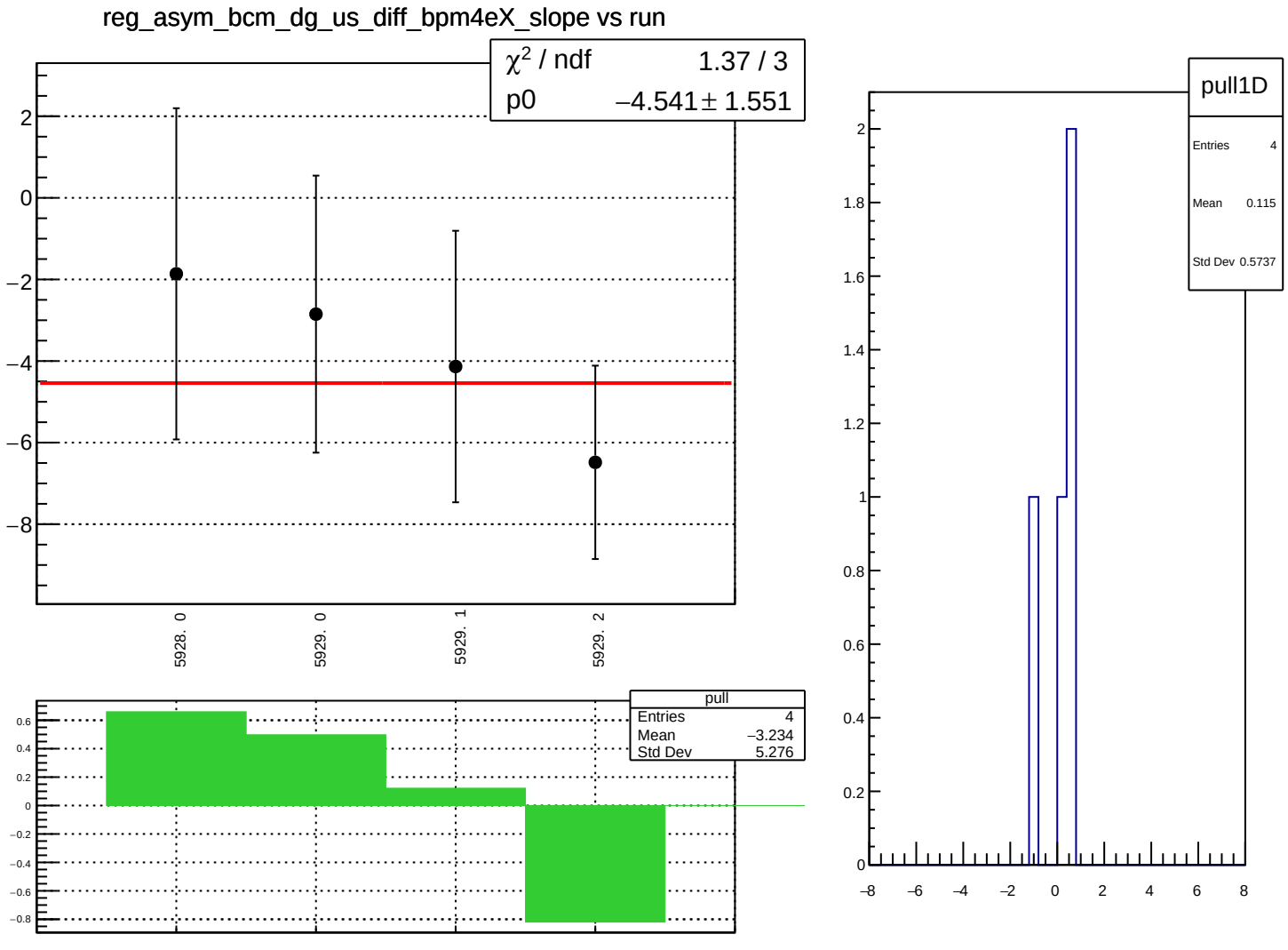

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.159 / 3
p0 −3.983 ± 1.582
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −2.83
Std Dev 4.857
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.1101
Std Dev 0.5269
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

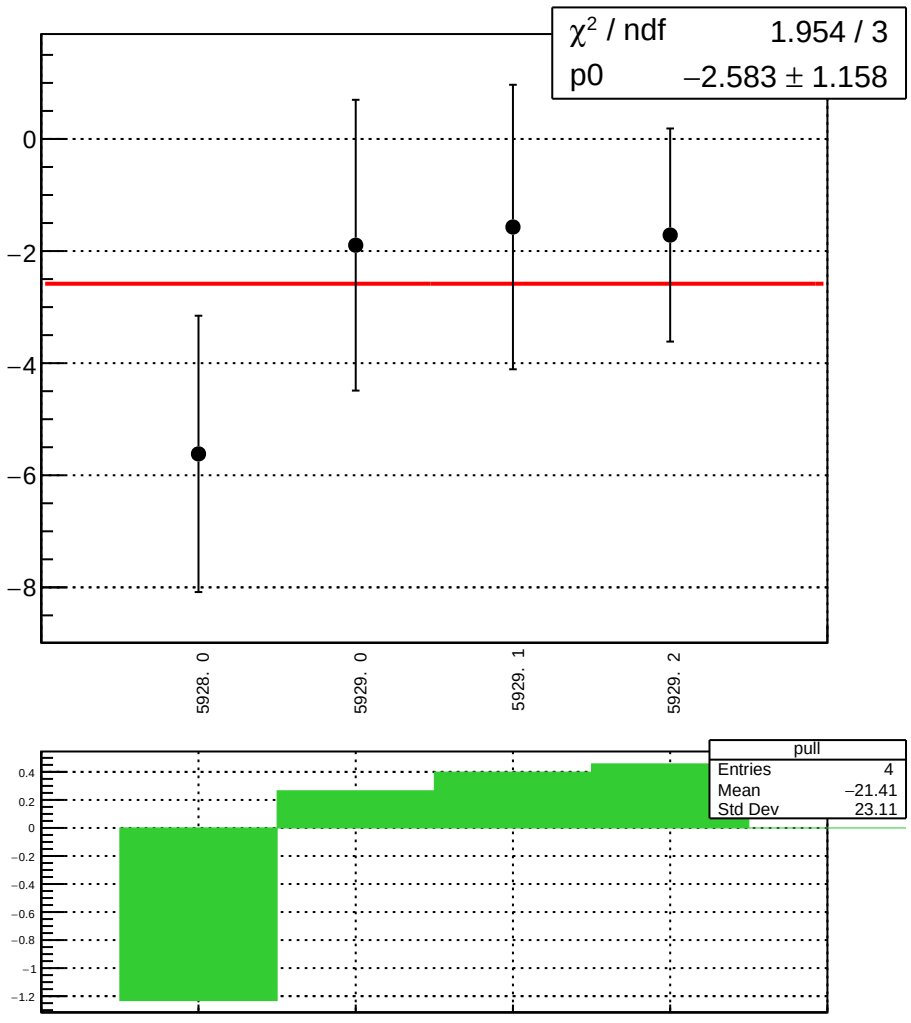

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 1.658 / 3
p0 −3.476 ± 1.182
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −17.39
Std Dev 19.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean −0.0196
Std Dev 0.6435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

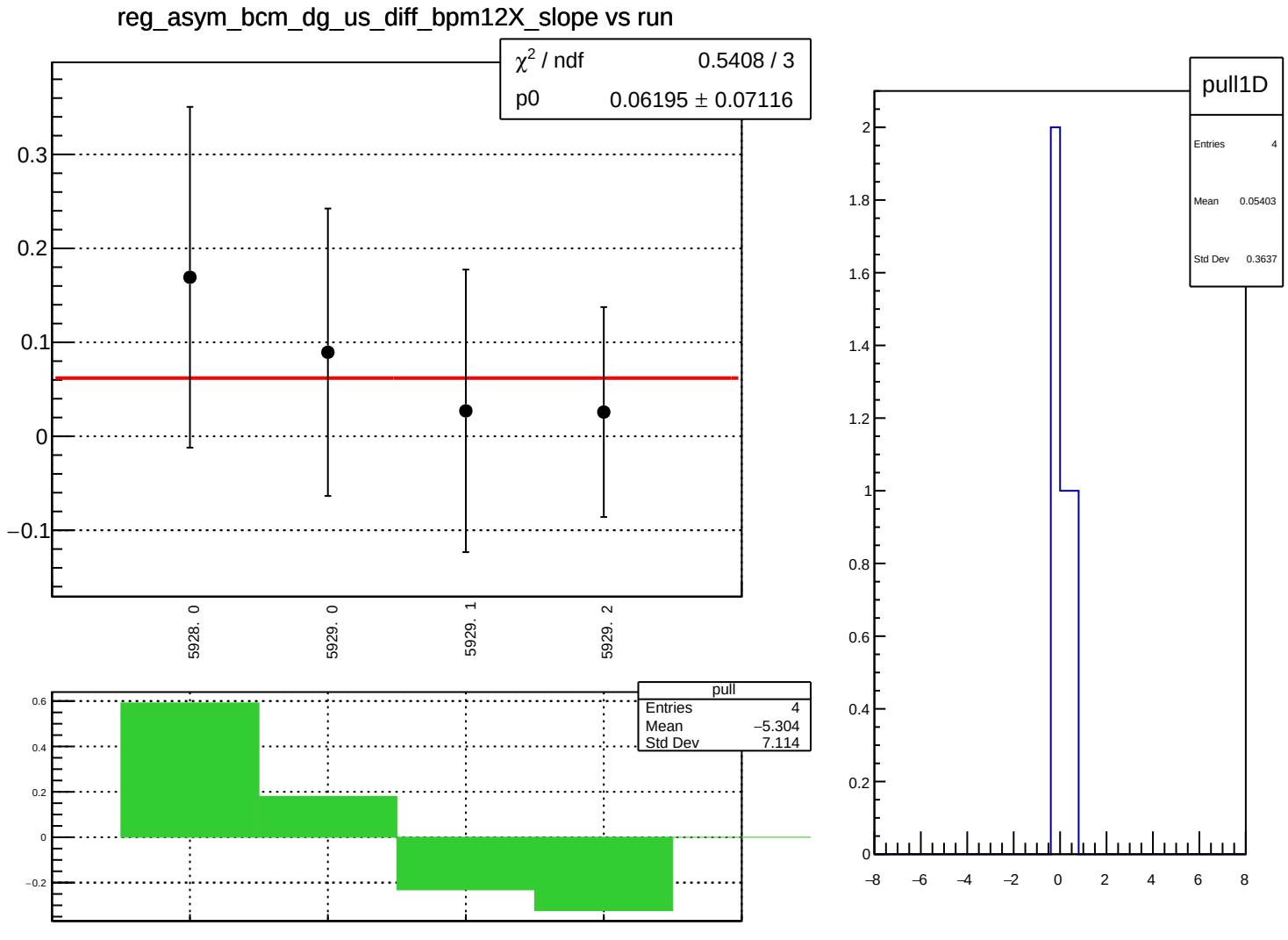

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 2.836 / 3
p0 0.002355 ± 0.07261
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.601
Std Dev 5.19
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.09484
Std Dev 0.8367
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 1.092 / 3
p0 3.776 ± 1.228
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.19
Std Dev 5.258
pull1D
Entries 4
Mean −0.1016
Std Dev 0.5125


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 1.453 / 3
p0 2.35 ± 1.043
7
6
5
4
3
2
1
0
−1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −25.48
Std Dev 27.21
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 4
Mean 0.02116
Std Dev 0.6023
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


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1.37 / 3
p0 −4.541 ± 1.551
2
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −3.234
Std Dev 5.276
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 4
Mean 0.115
Std Dev 0.5737
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


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 1.954 / 3
p0 −2.583 ± 1.158
0
−2
−4
−6
−8
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −21.41
Std Dev 23.11
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 4
Mean −0.02776
Std Dev 0.6985
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


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 0.5408 / 3
p0 0.06195 ± 0.07116
0.3
0.2
0.1
0
−0.1
5928. 0
5929. 0
5929. 1
5929. 2
pull
Entries 4
Mean −5.304
Std Dev 7.114
0.6
0.4
0.2
0
−0.2
pull1D
Entries 4
Mean 0.05403
Std Dev 0.3637
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