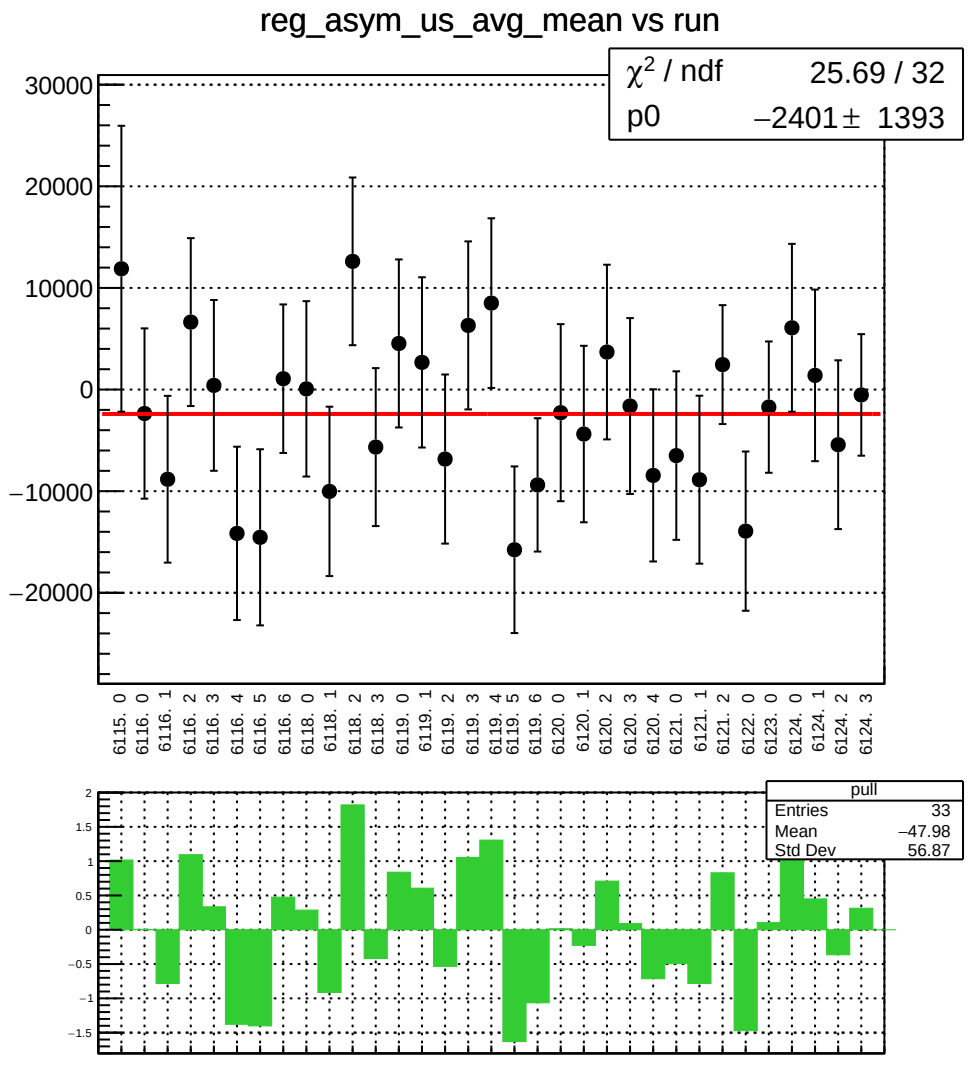
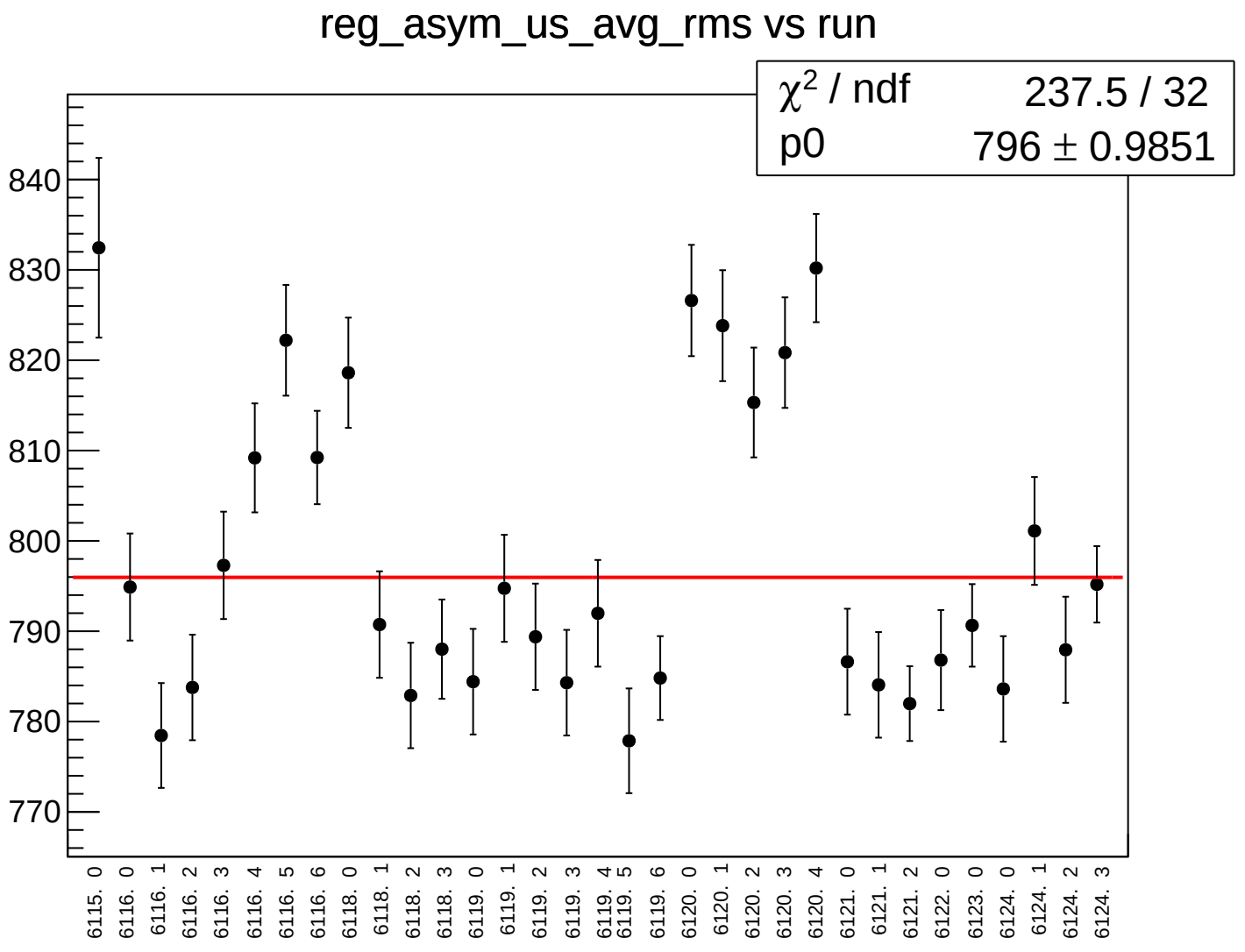
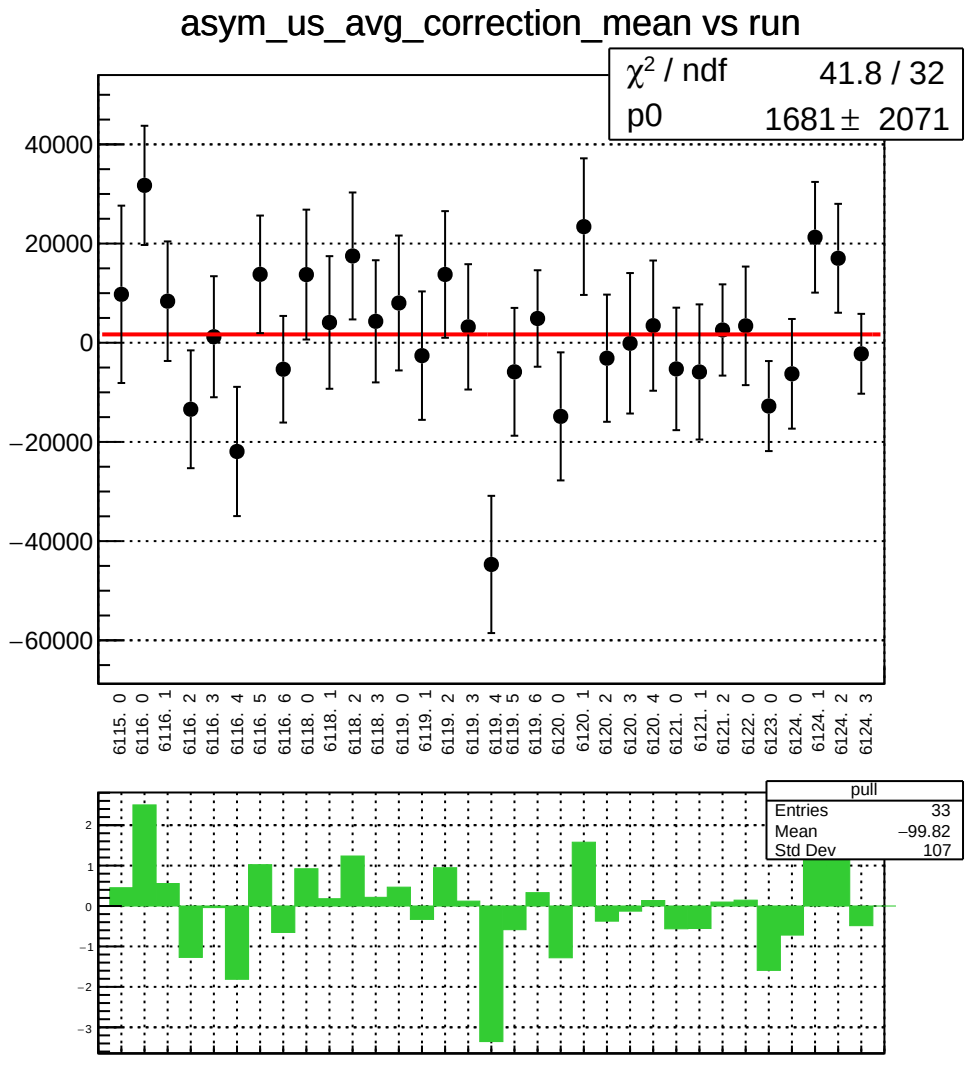
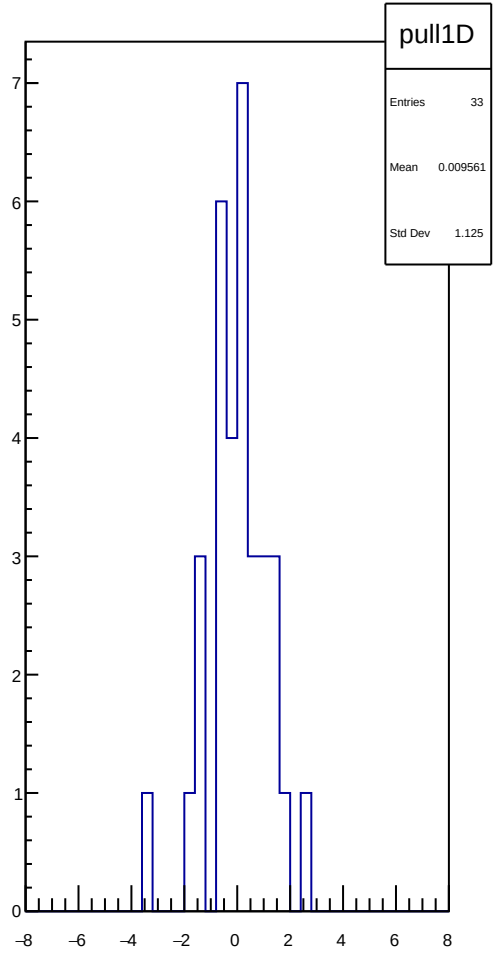
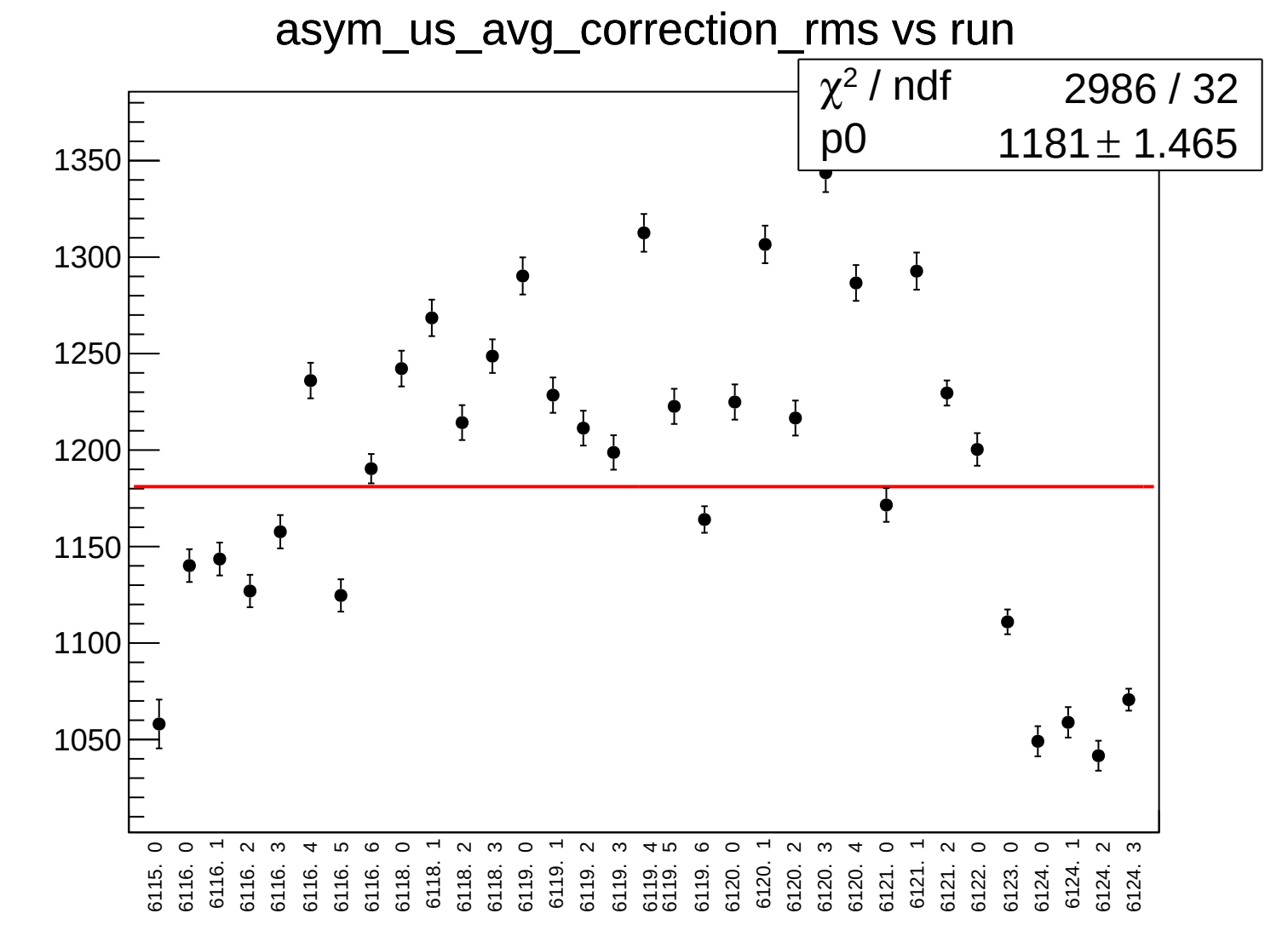
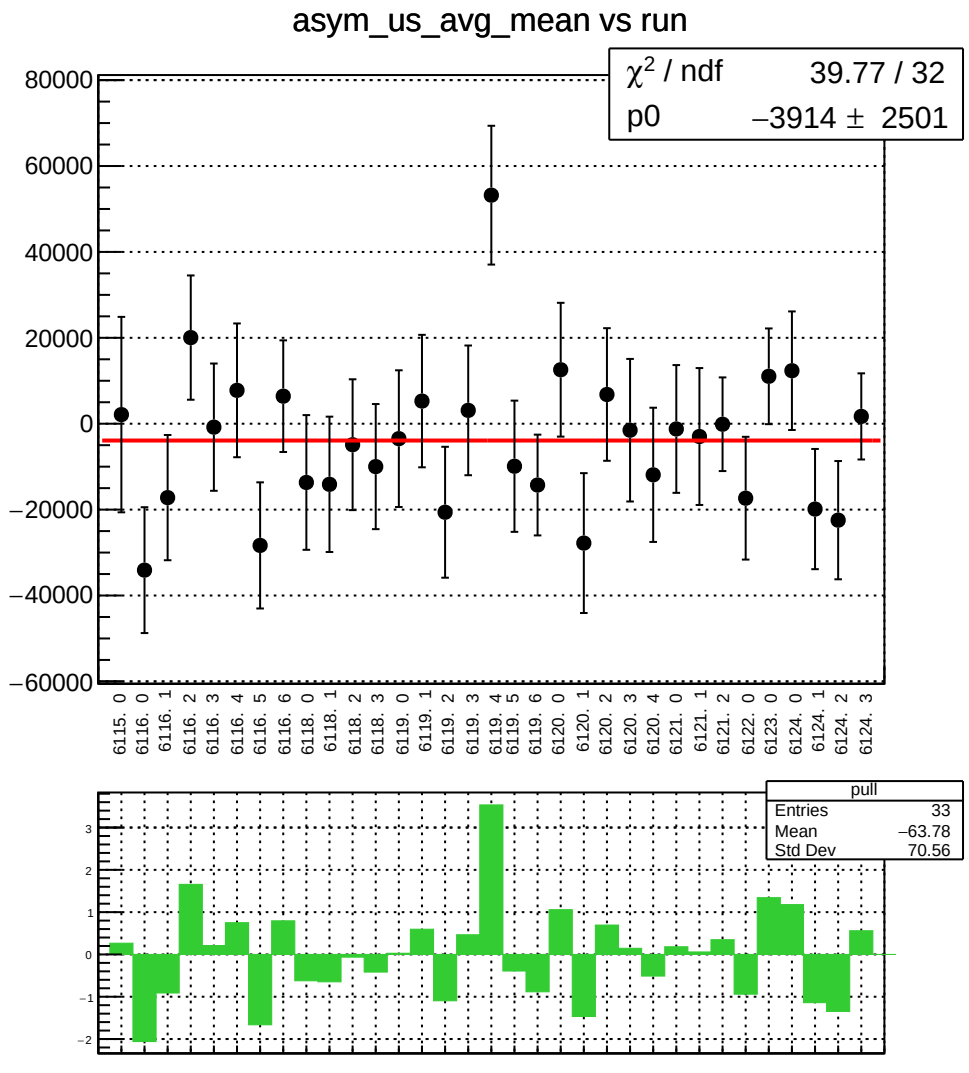

reg_asym_us_avg_mean vs run
χ² / ndf 25.69 / 32
p0 −2401 ± 1393
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −47.98
Std Dev 56.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005905
Std Dev 0.8823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

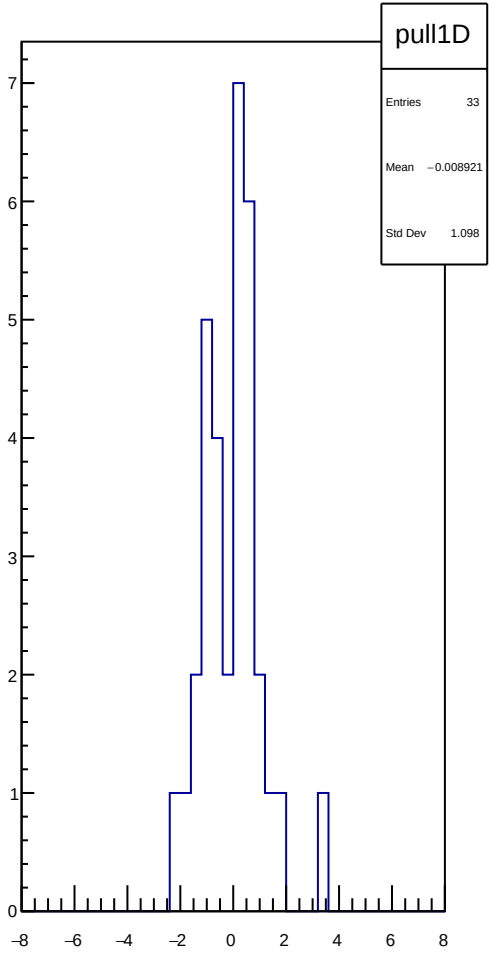

reg_asym_us_avg_rms vs run
χ^2 / ndf 237.5 / 32
p0 796 ± 0.9851
840
830
820
810
800
790
780
770
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

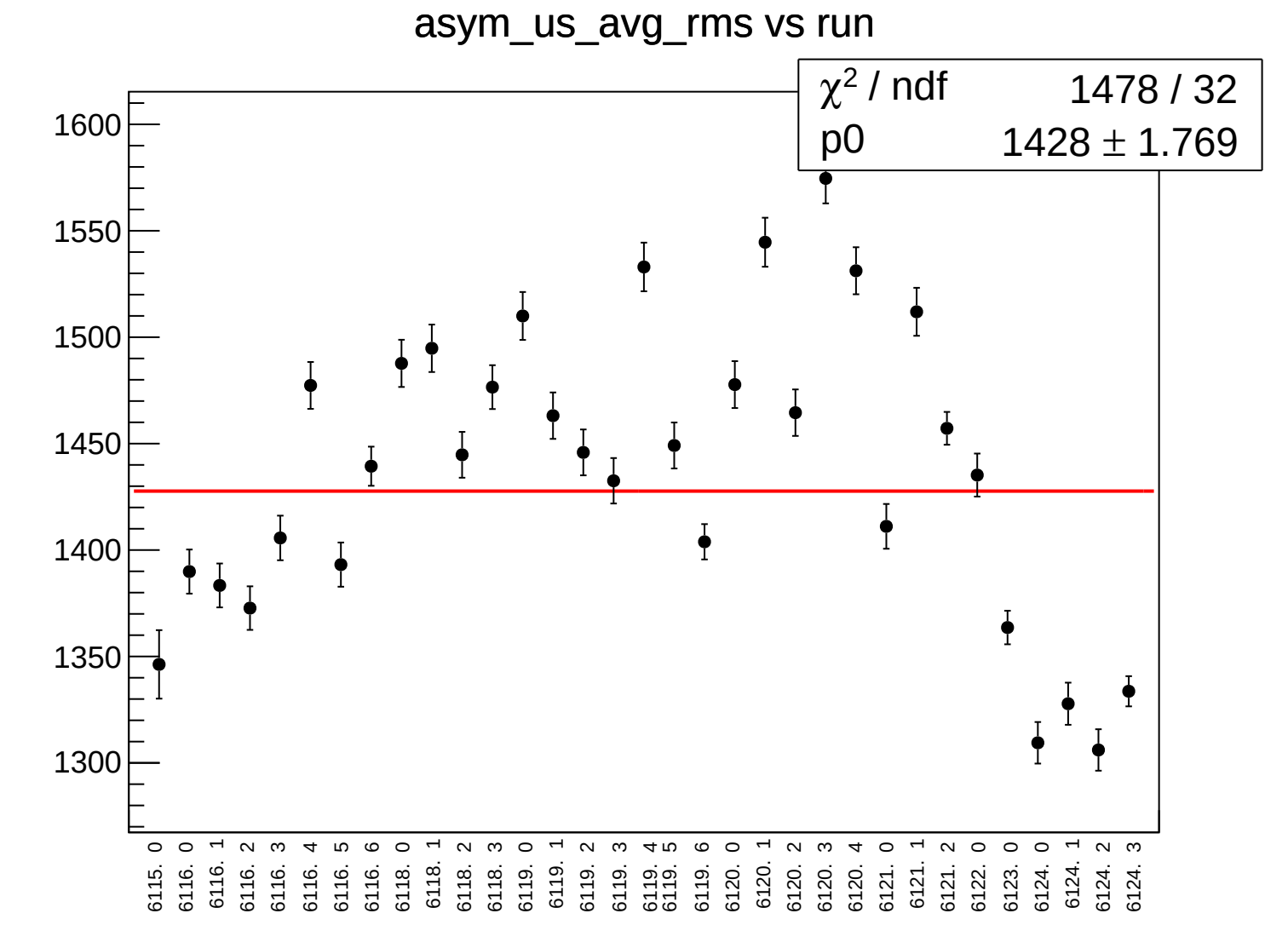

asym_us_avg_correction_mean vs run
χ² / ndf 41.8 / 32
p0 1681 ± 2071
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −99.82
Std Dev 107
2
1
0
−1
−2
−3

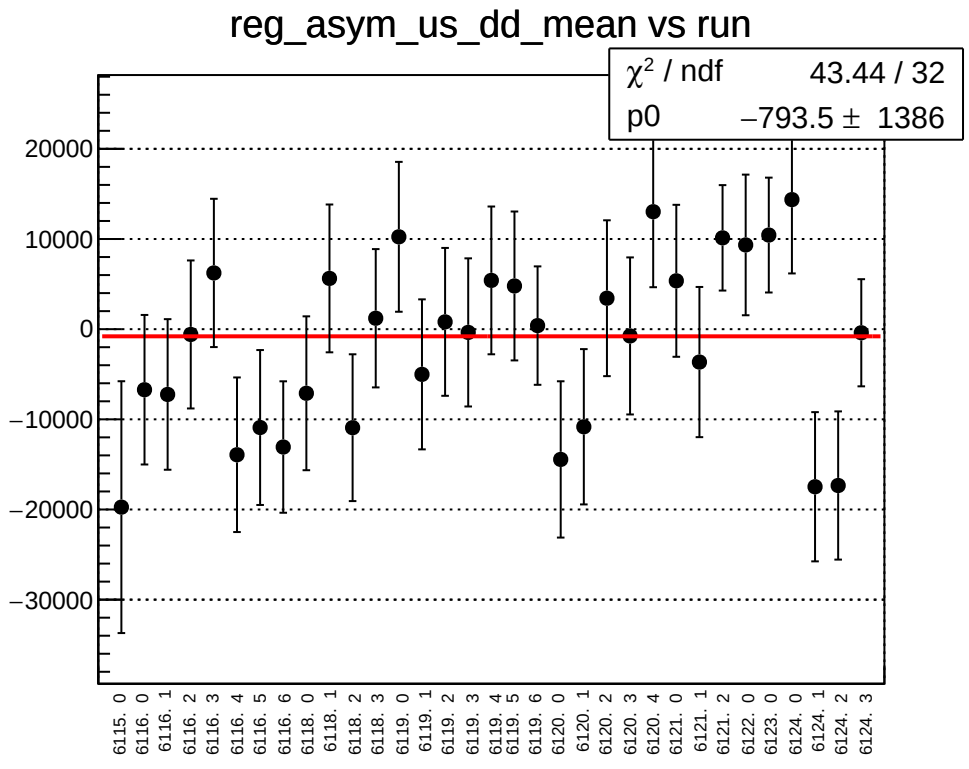

pull1D
Entries 33
Mean 0.009561
Std Dev 1.125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

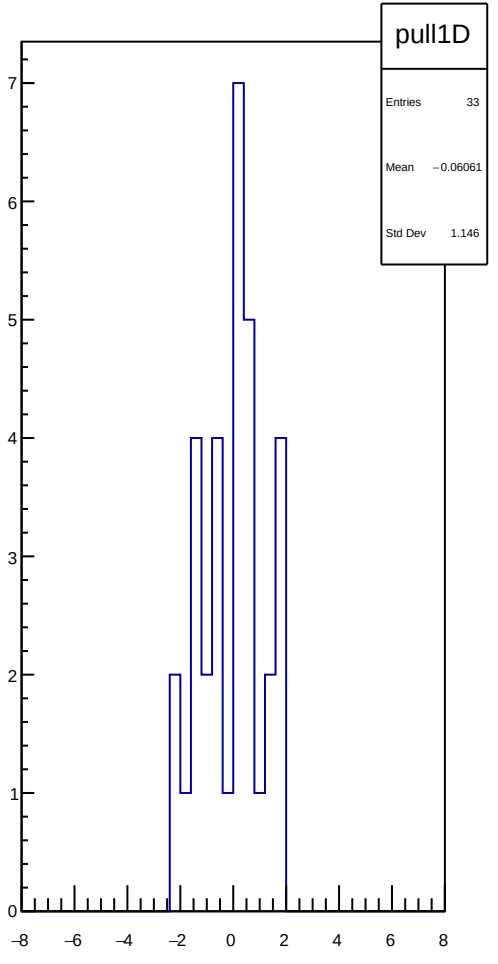

asym_us_avg_correction_rms vs run
χ² / ndf 2986 / 32
p0 1181 ± 1.465
1350
1300
1250
1200
1150
1100
1050
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

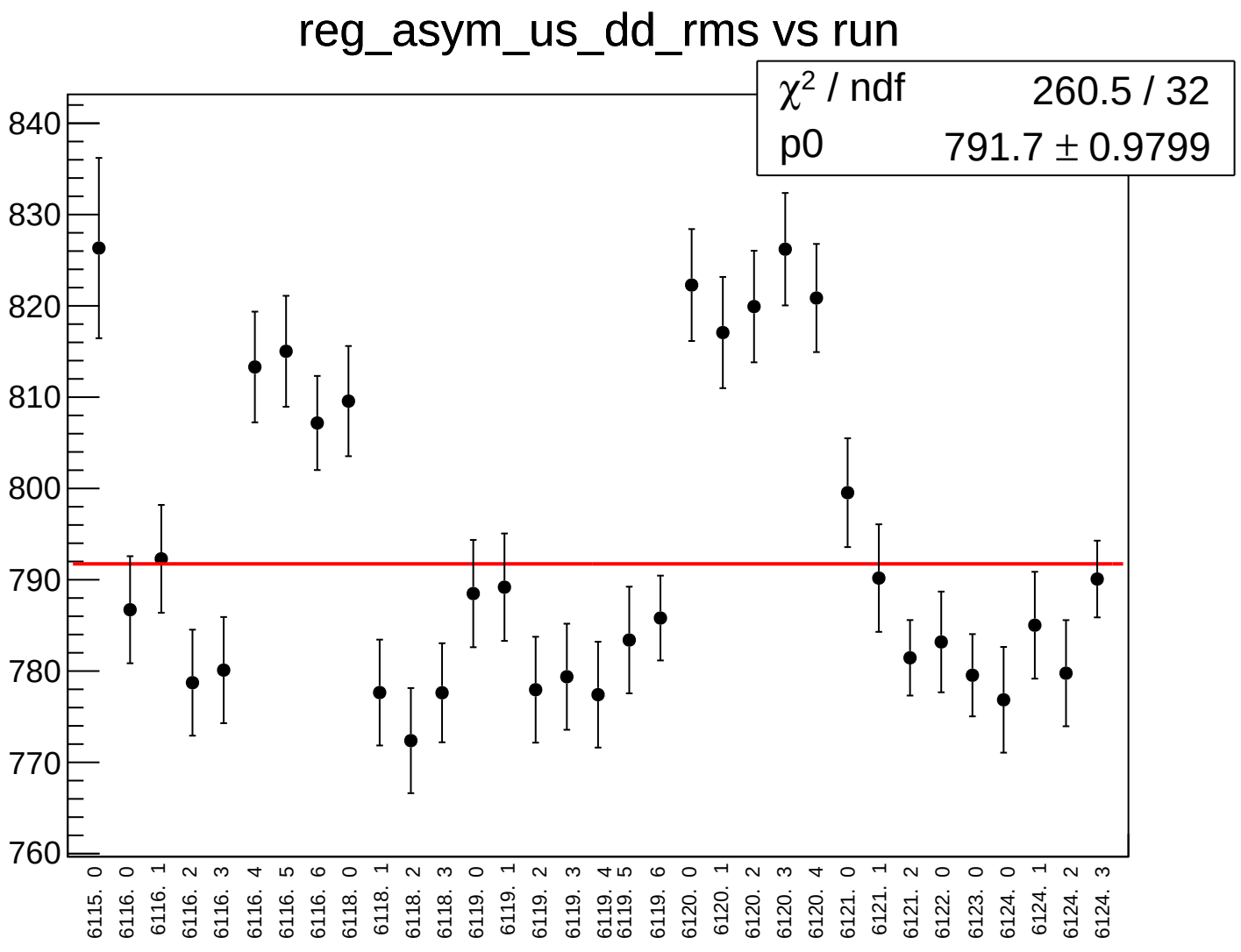

asym_us_avg_mean vs run
χ² / ndf 39.77 / 32
p0 −3914 ± 2501
80000
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −63.78
Std Dev 70.56
3
2
1
0
−1
−2

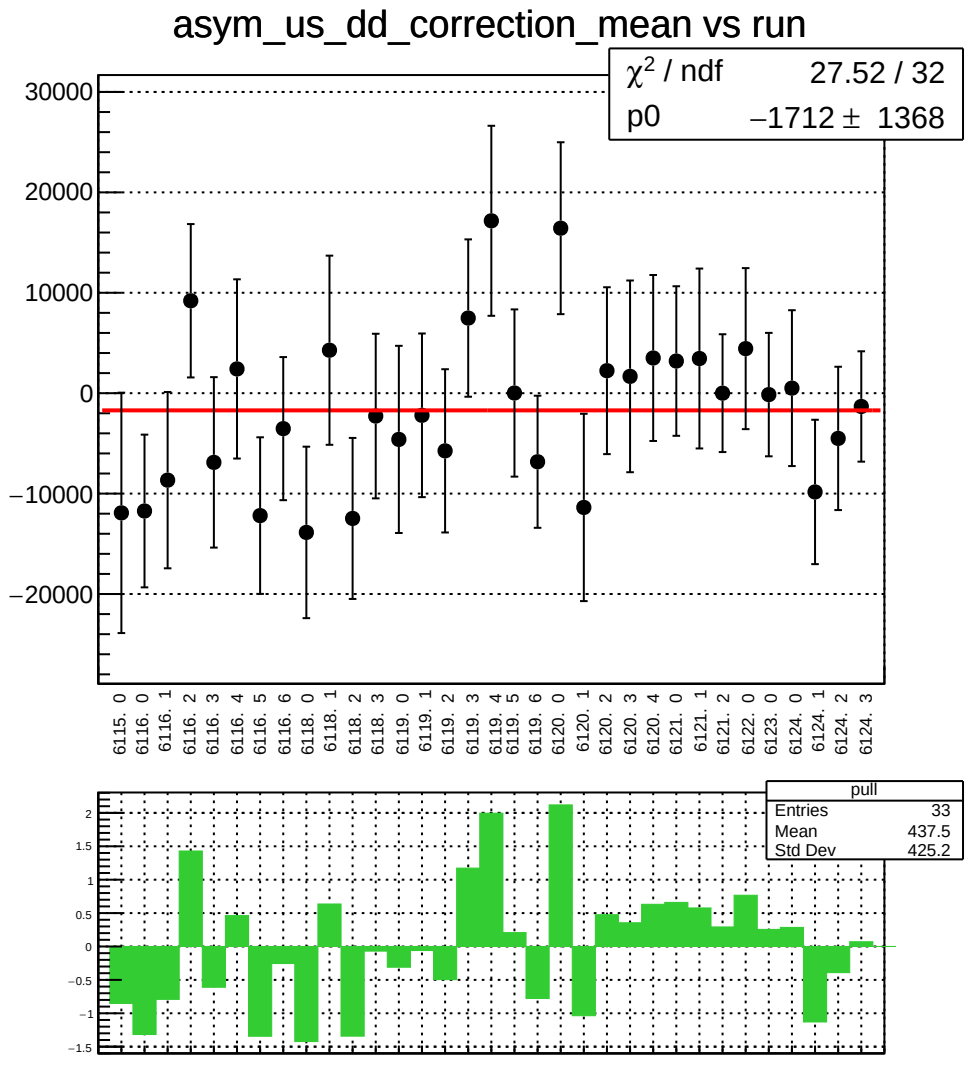

pull1D
Entries 33
Mean −0.008921
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

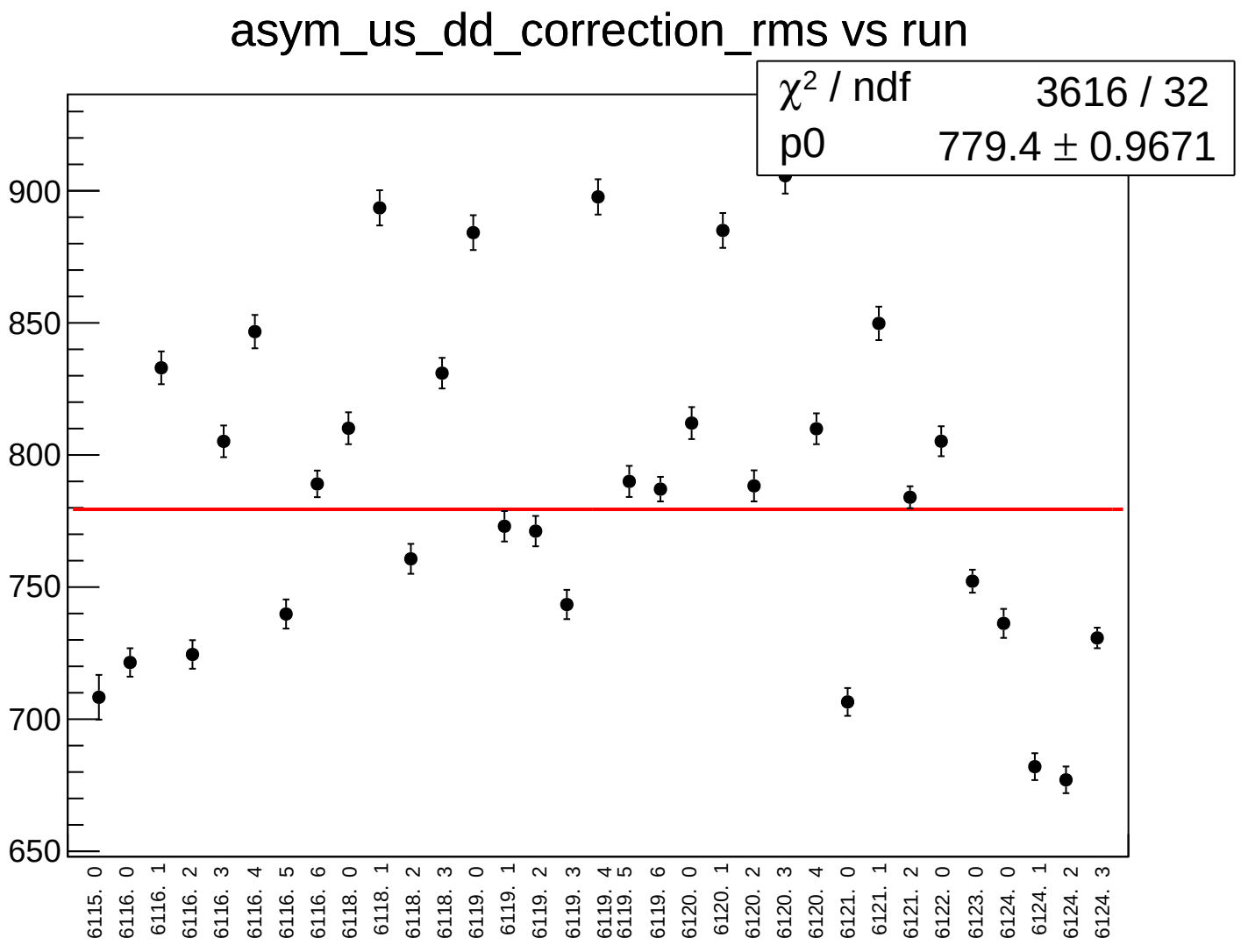

asym_us_avg_rms vs run
χ² / ndf 1478 / 32
p0 1428 ± 1.769
1600
1550
1500
1450
1400
1350
1300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

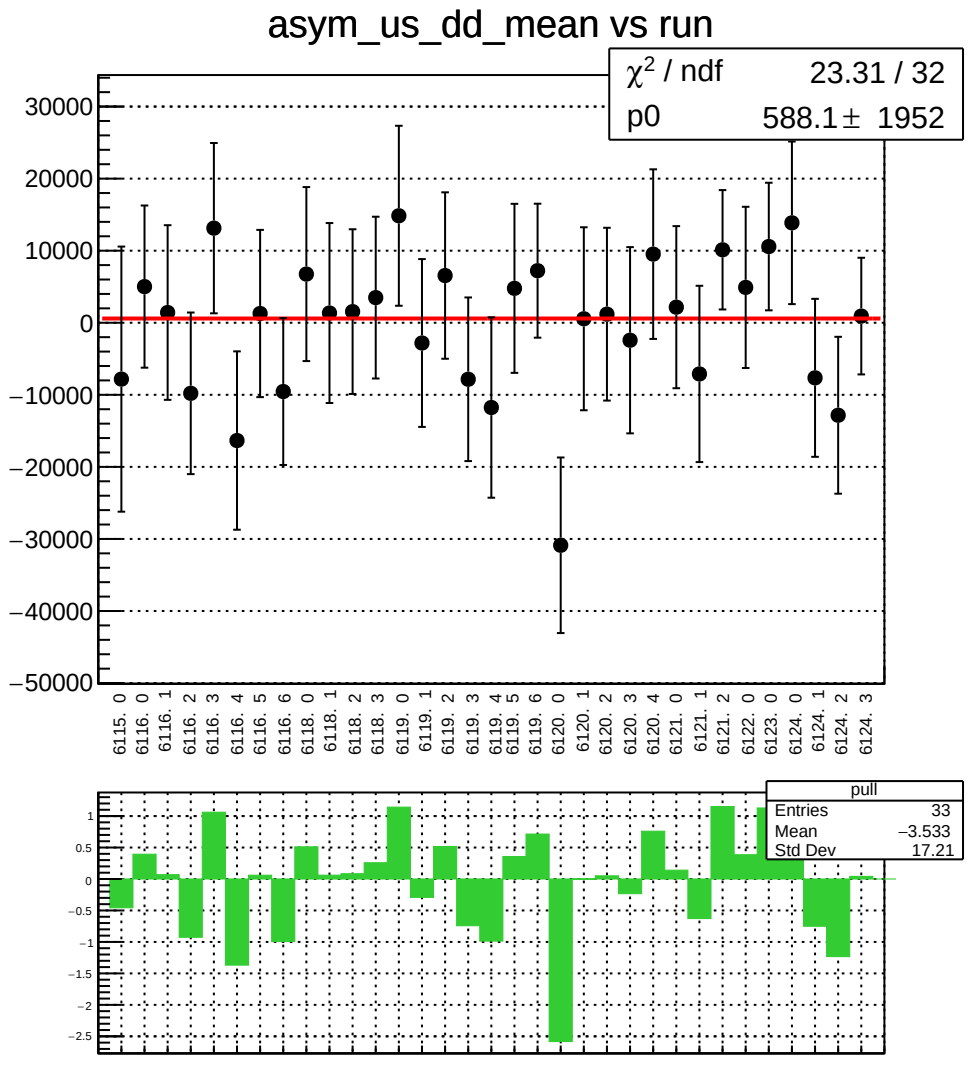

reg_asym_us_dd_mean vs run
χ² / ndf 43.44 / 32
p0 −793.5 ± 1386
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −37.54
Std Dev 50
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

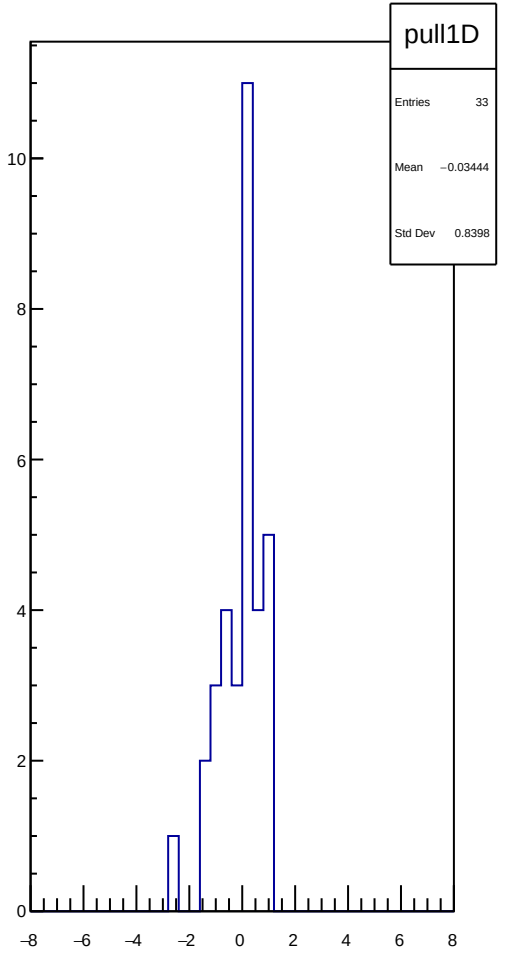

pull1D
Entries 33
Mean −0.06061
Std Dev 1.146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

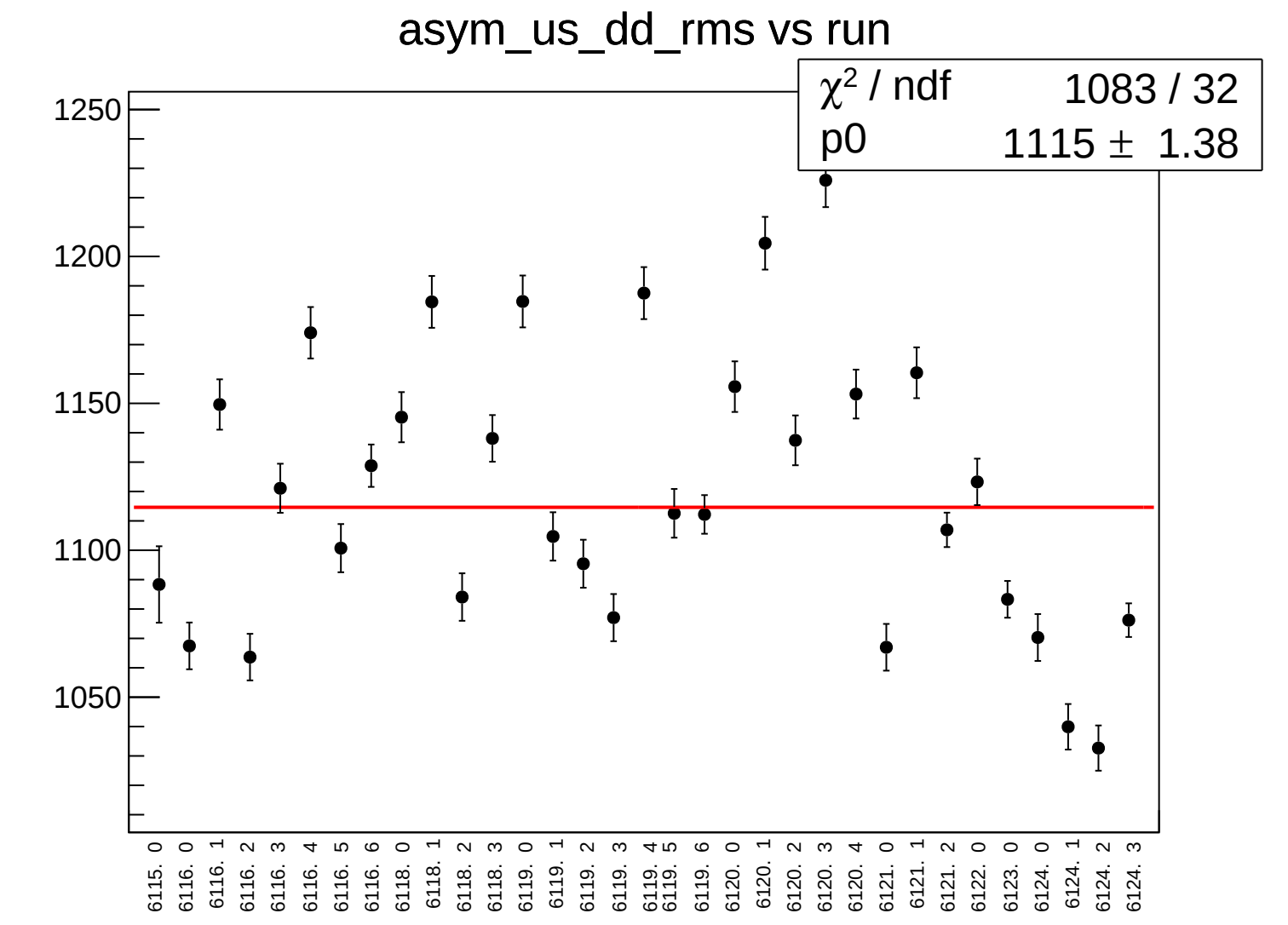

reg_asym_us_dd_rms vs run
χ² / ndf 260.5 / 32
p0 791.7 ± 0.9799
840
830
820
810
800
790
780
770
760
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

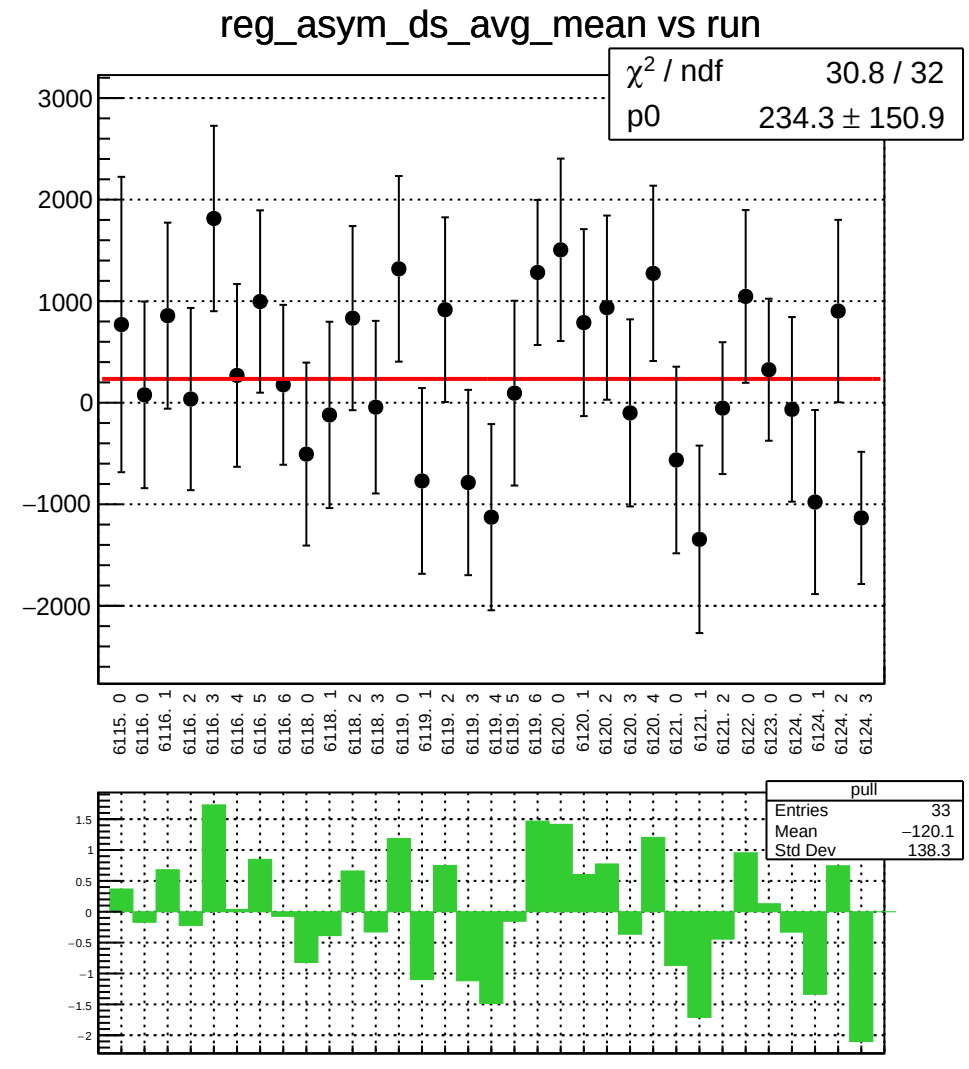

asym_us_dd_correction_mean vs run
χ² / ndf 27.52 / 32
p0 −1712 ± 1368
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 437.5
Std Dev 425.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005636
Std Dev 0.9132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

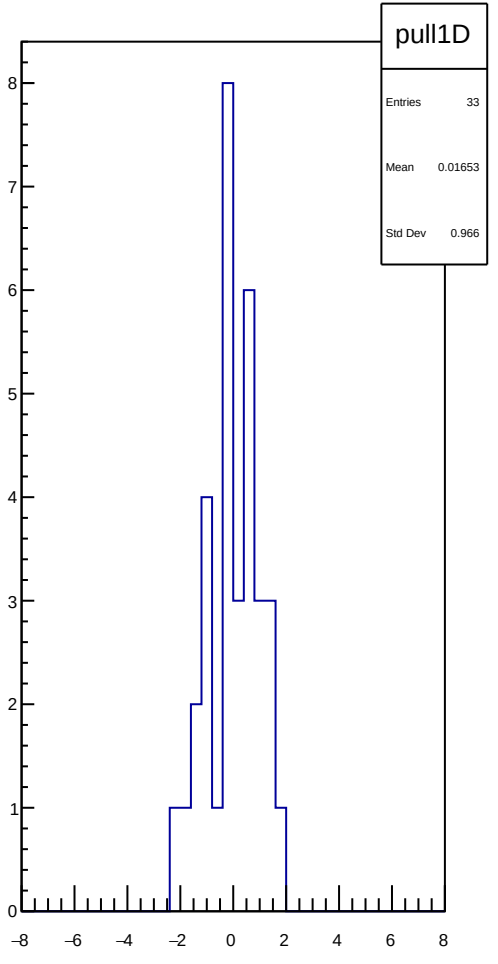

asym_us_dd_correction_rms vs run
χ² / ndf 3616 / 32
p0 779.4 ± 0.9671
900
850
800
750
700
650
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

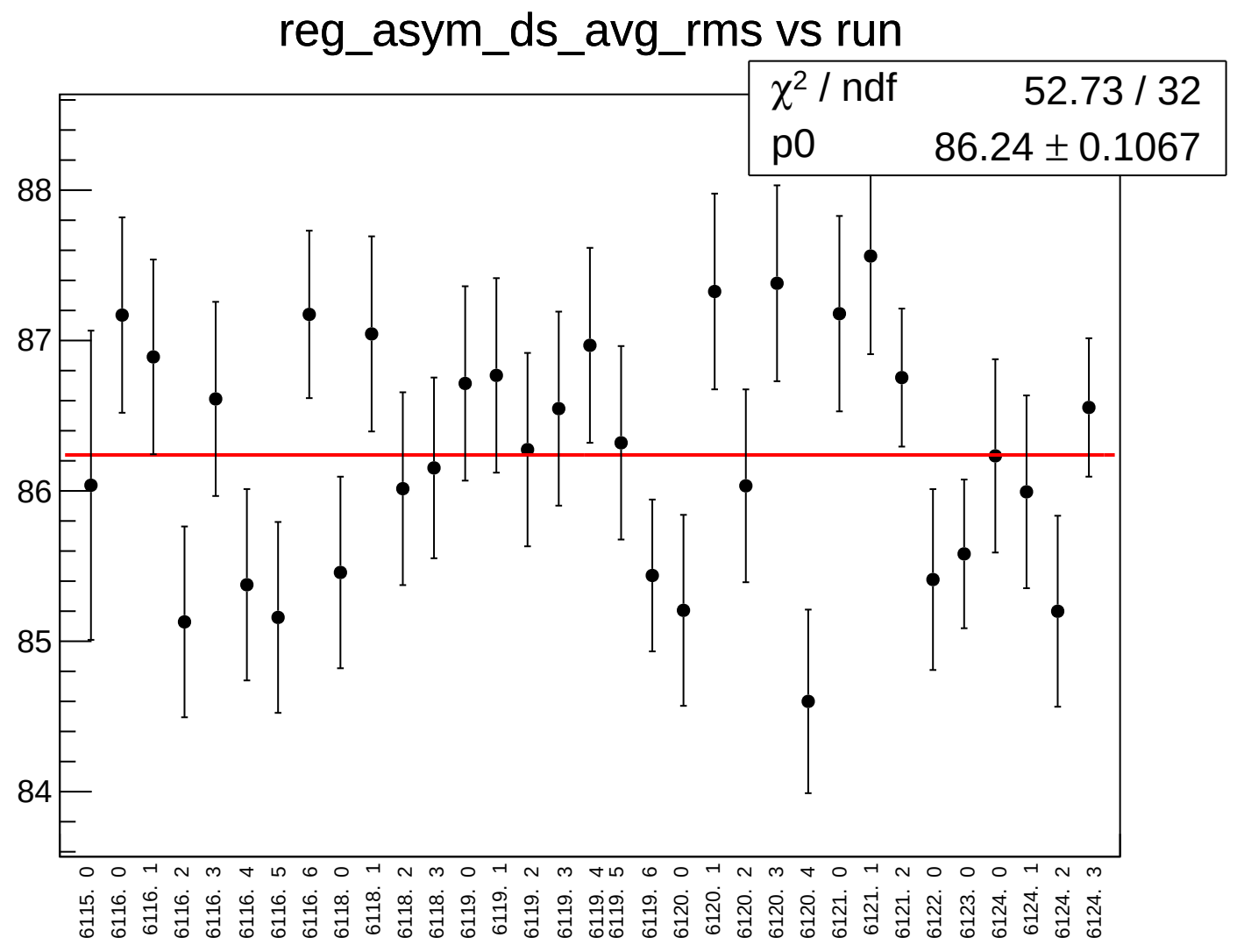

asym_us_dd_mean vs run
χ² / ndf 23.31 / 32
p0 588.1 ± 1952
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −3.533
Std Dev 17.21
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

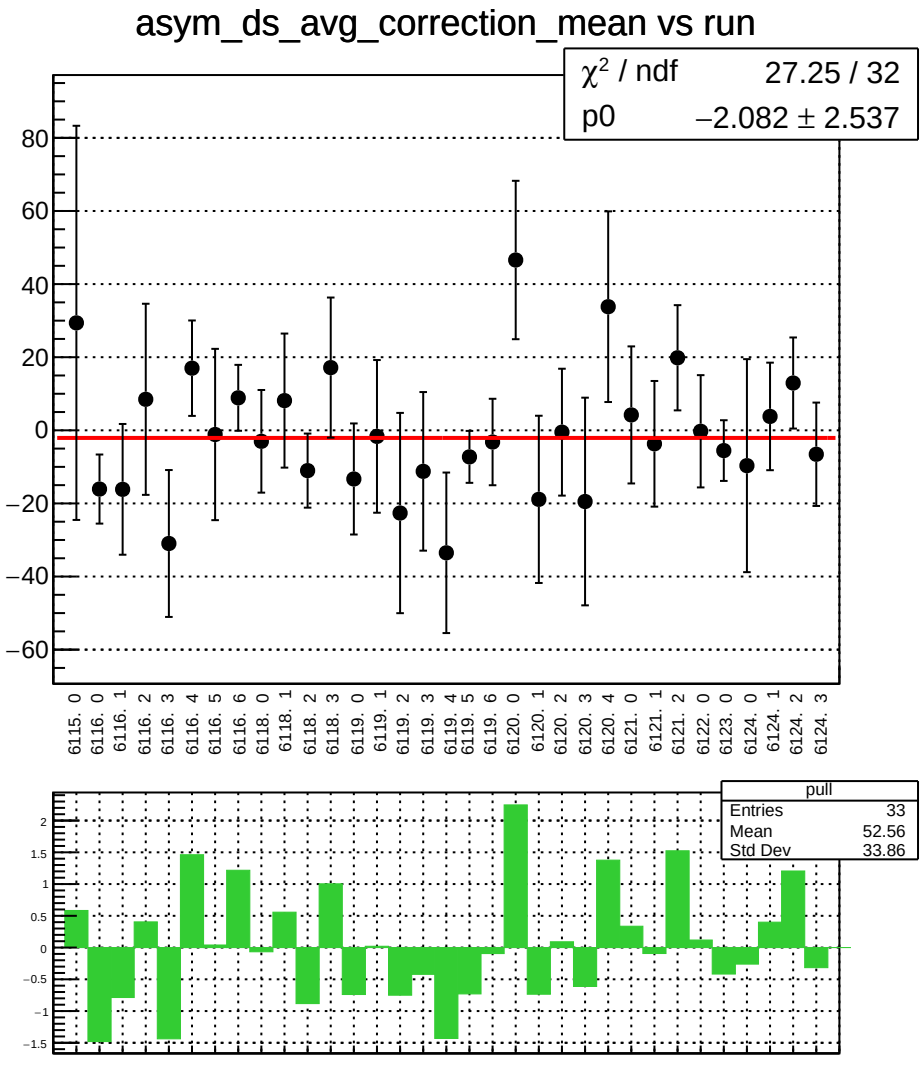

pull1D
Entries 33
Mean −0.03444
Std Dev 0.8398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

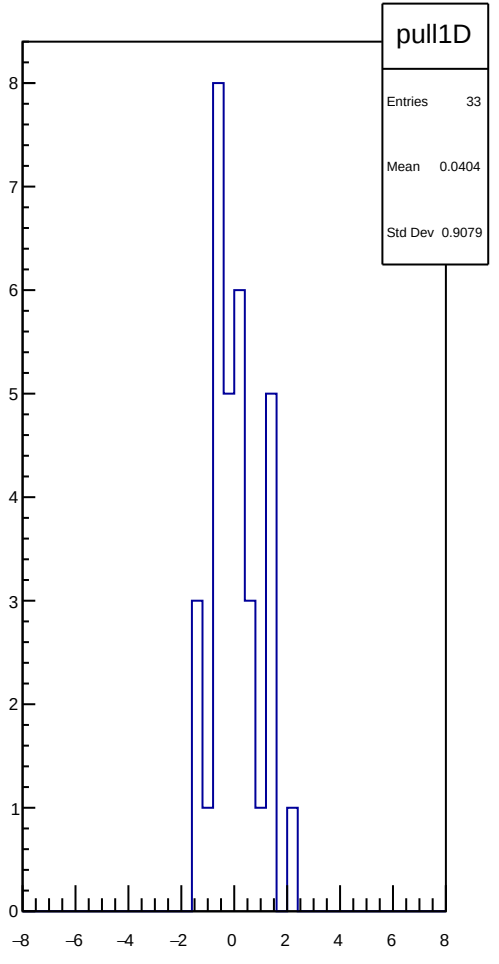

asym_us_dd_rms vs run
χ² / ndf 1083 / 32
p0 1115 ± 1.38
1250
1200
1150
1100
1050
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

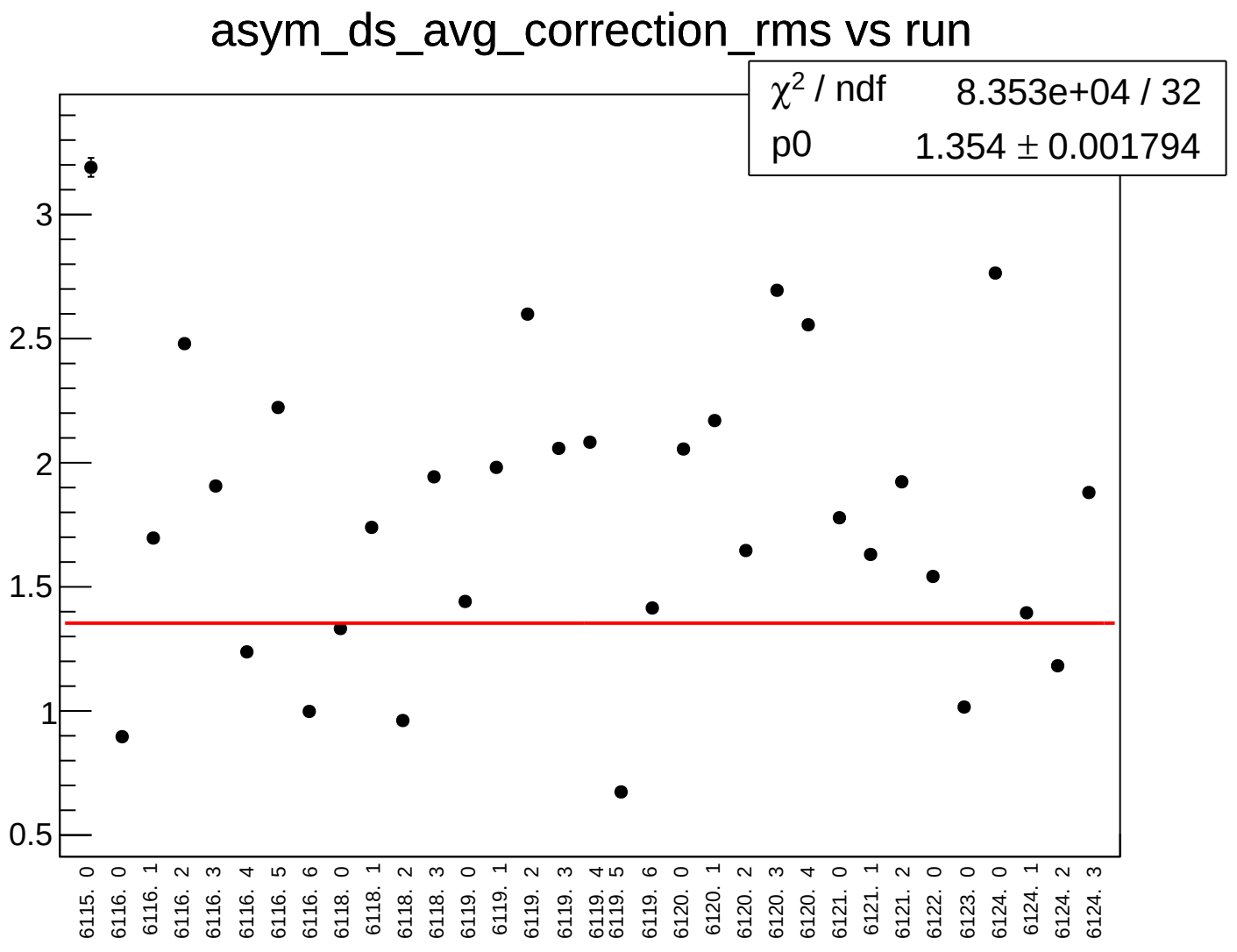

reg_asym_ds_avg_mean vs run
χ² / ndf 30.8 / 32
p0 234.3 ± 150.9
3000
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −120.1
Std Dev 138.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

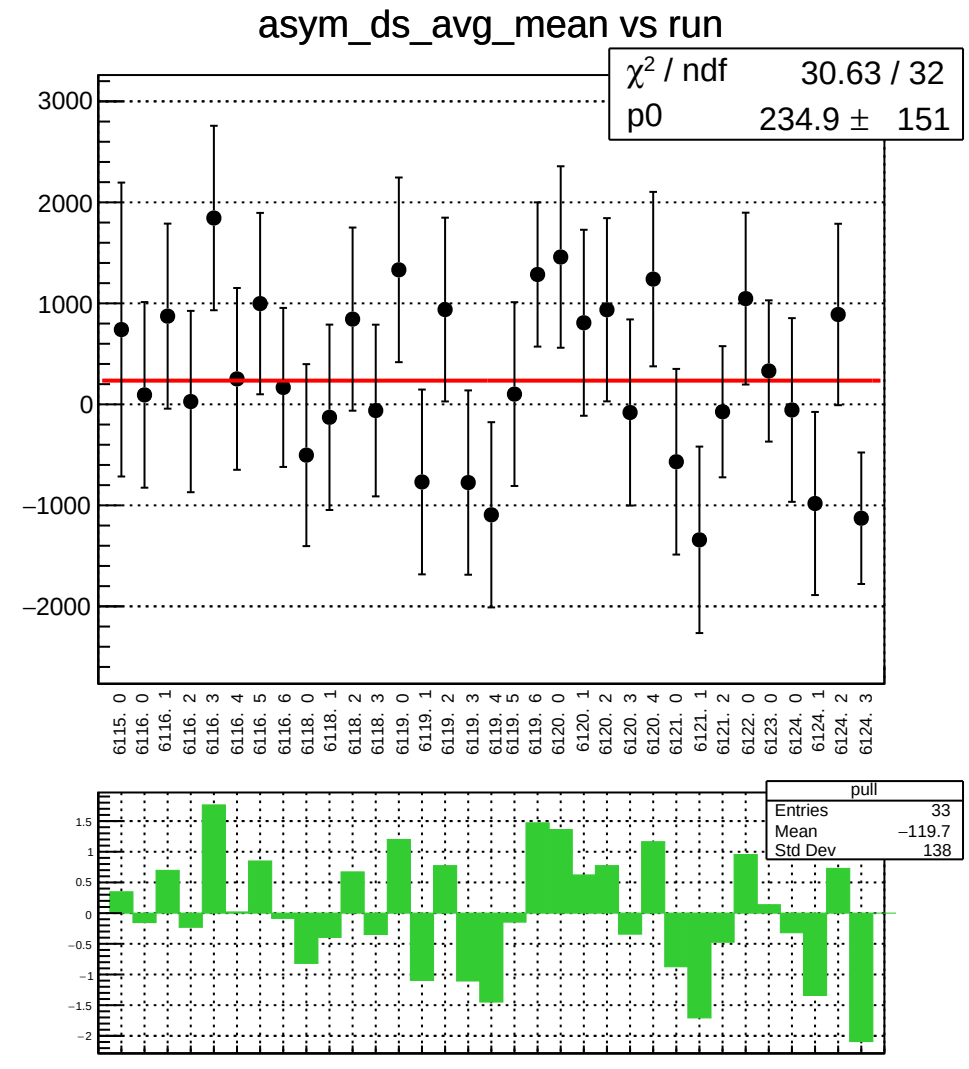

pull1D
Entries 33
Mean 0.01653
Std Dev 0.966
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

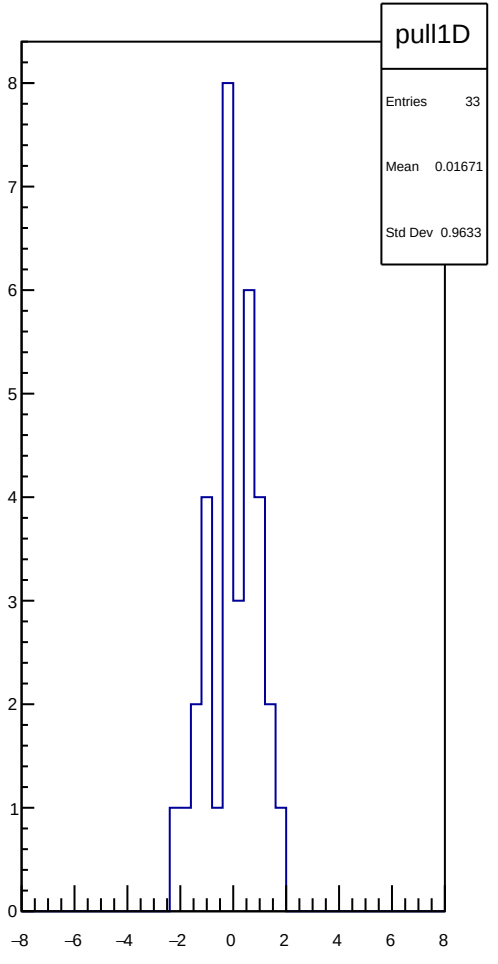

reg_asym_ds_avg_rms vs run
χ² / ndf 52.73 / 32
p0 86.24 ± 0.1067
88
87
86
85
84
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

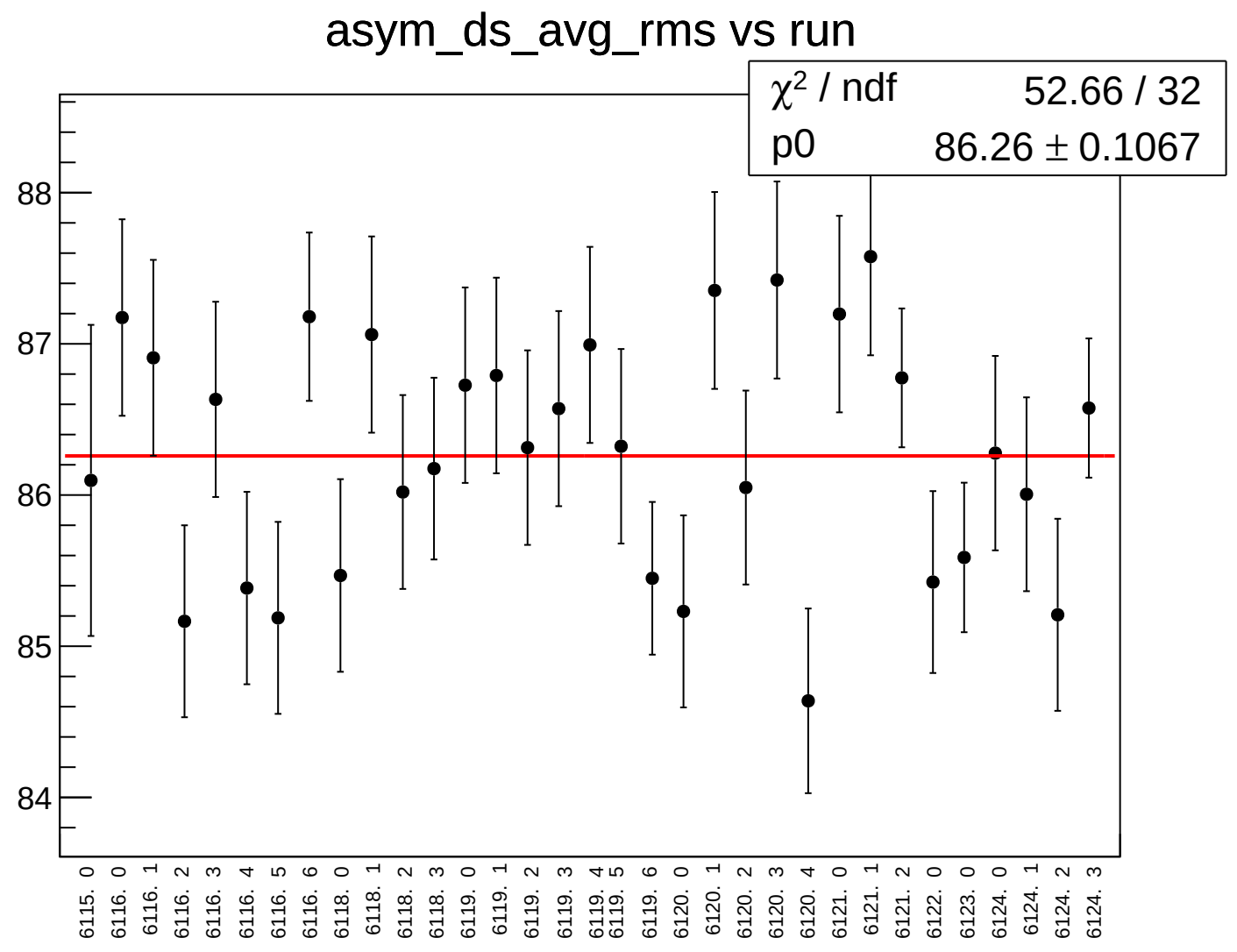

asym_ds_avg_correction_mean vs run
χ² / ndf 27.25 / 32
p0 −2.082 ± 2.537
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 52.56
Std Dev 33.86
2
1.5
1
0.5
0
−0.5
−1
−1.5

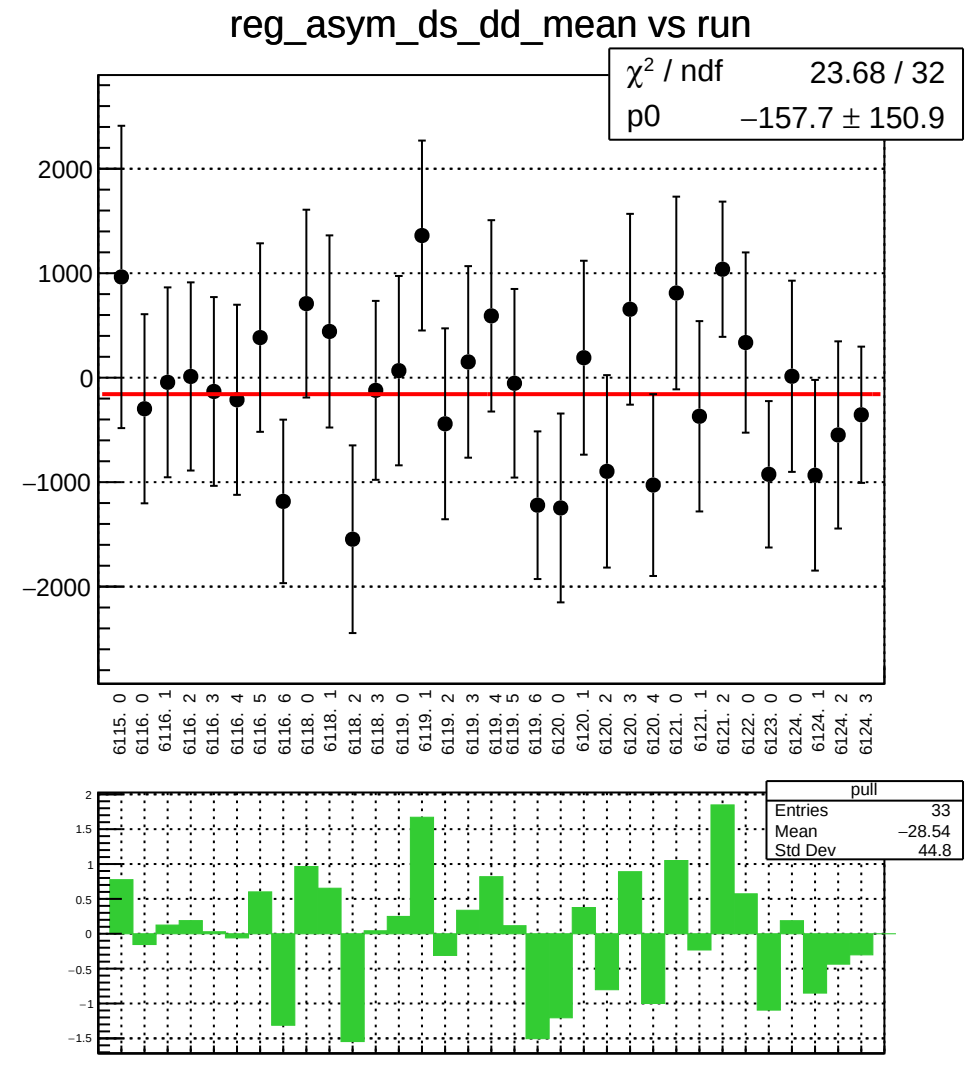

pull1D
Entries 33
Mean 0.0404
Std Dev 0.9079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

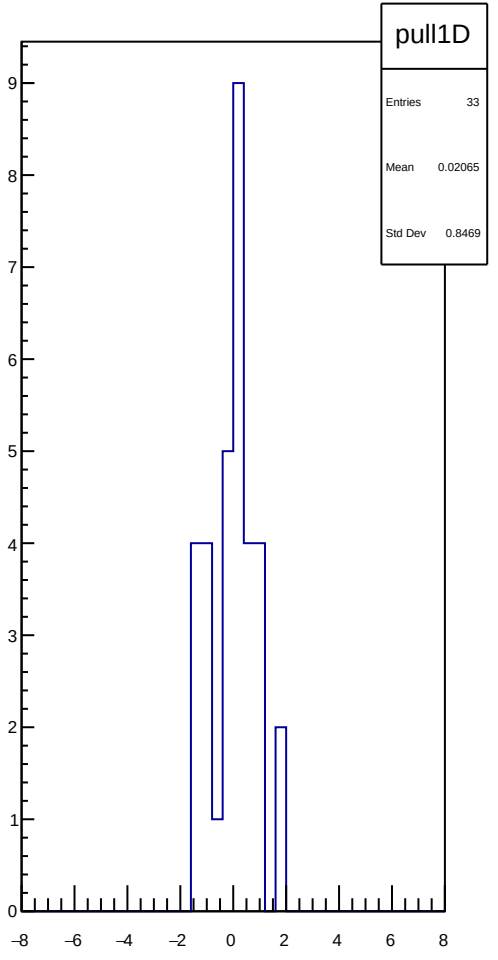

asym_ds_avg_correction_rms vs run
χ² / ndf 8.353e+04 / 32
p0 1.354 ± 0.001794
3
2.5
2
1.5
1
0.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

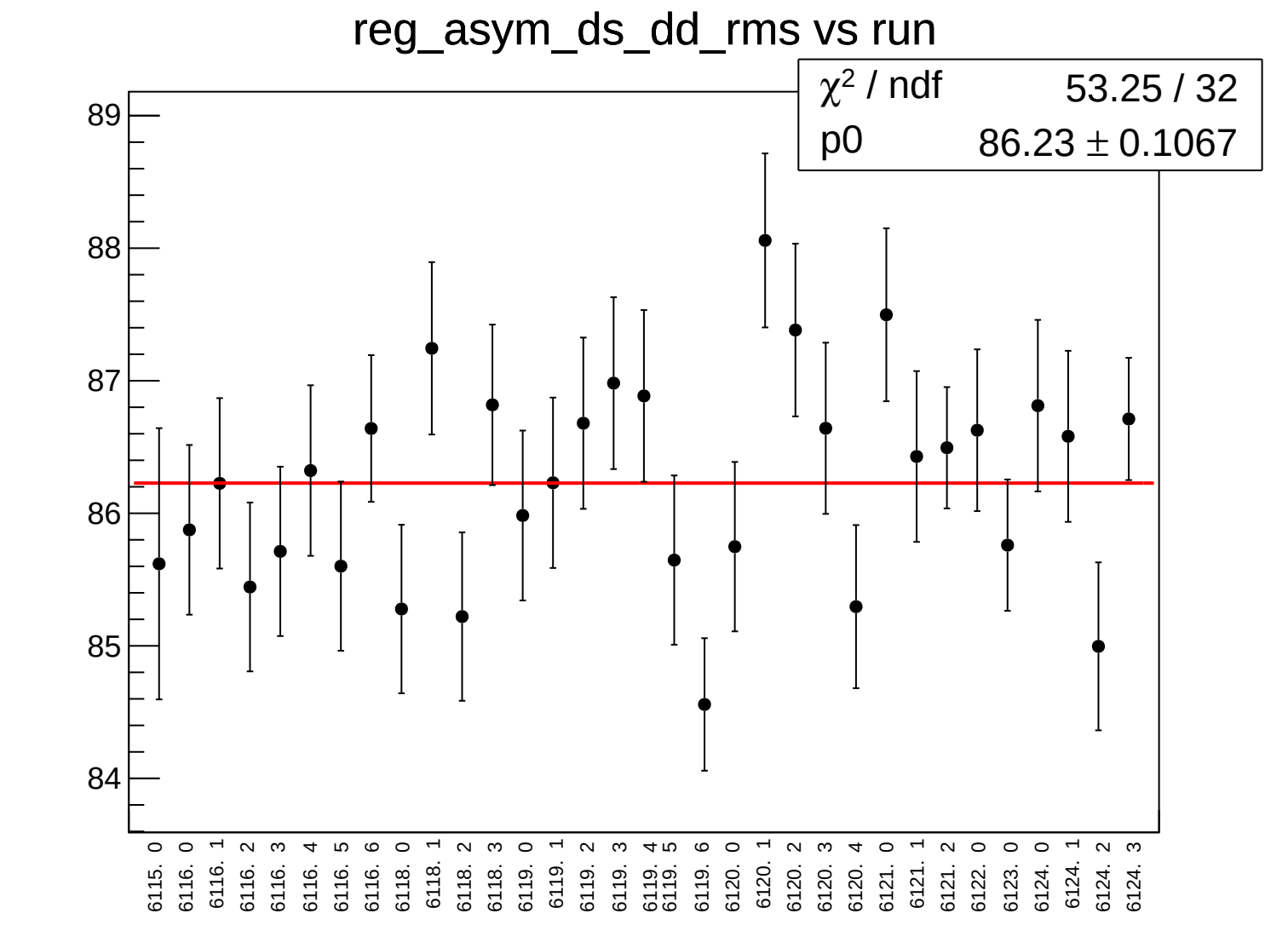

asym_ds_avg_mean vs run
χ² / ndf 30.63 / 32
p0 234.9 ± 151
3000
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −119.7
Std Dev 138
1.5
1
0.5
0
−0.5
−1
−1.5
−2

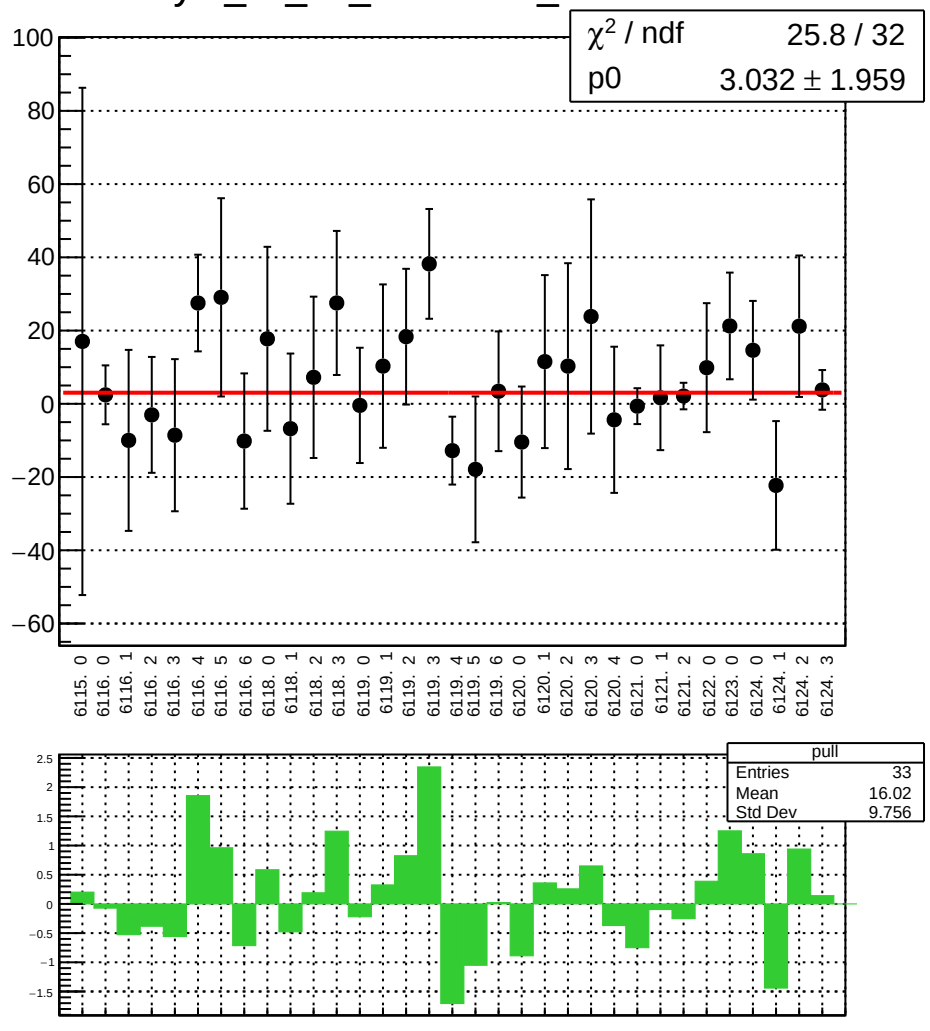

pull1D
Entries 33
Mean 0.01671
Std Dev 0.9633
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

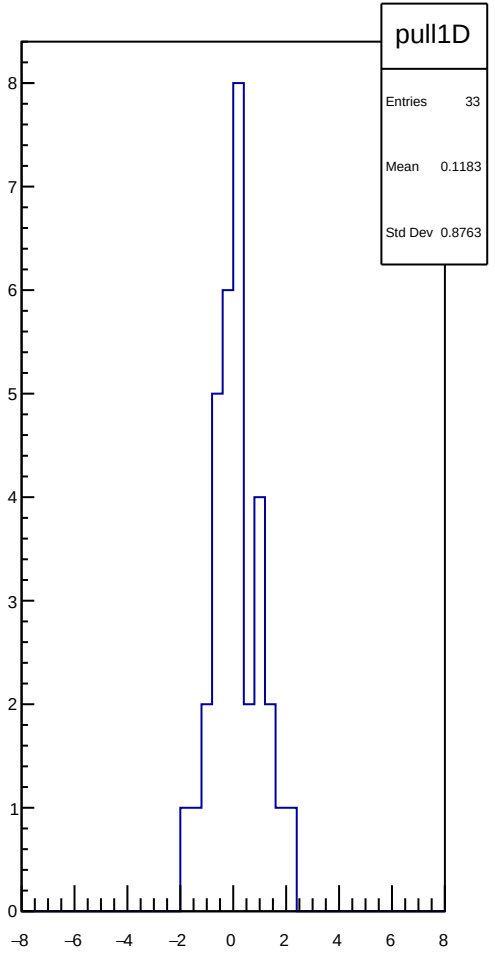

asym_ds_avg_rms vs run
χ² / ndf 52.66 / 32
p0 86.26 ± 0.1067
88
87
86
85
84
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

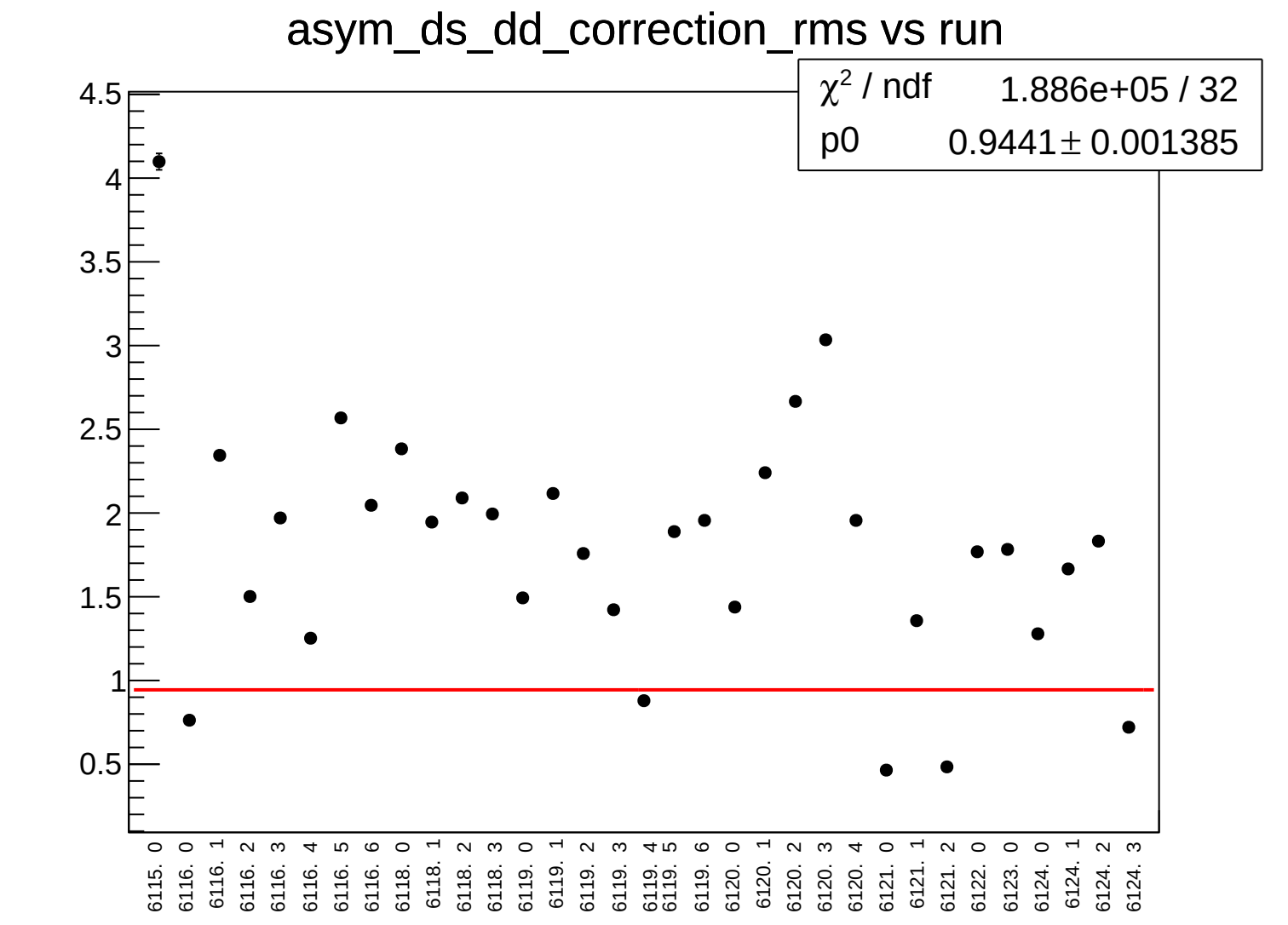

reg_asym_ds_dd_mean vs run
χ² / ndf 23.68 / 32
p0 −157.7 ± 150.9
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −28.54
Std Dev 44.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

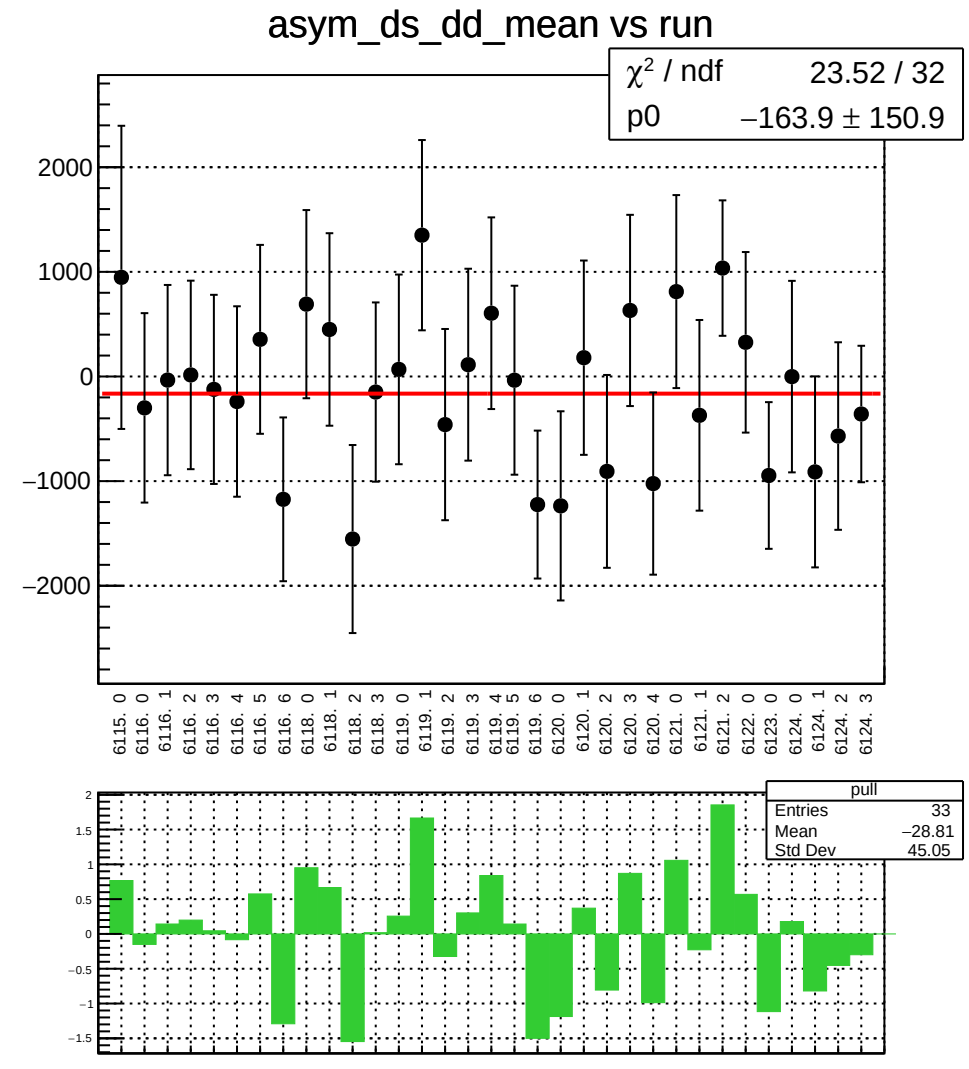

pull1D
Entries 33
Mean 0.02065
Std Dev 0.8469
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

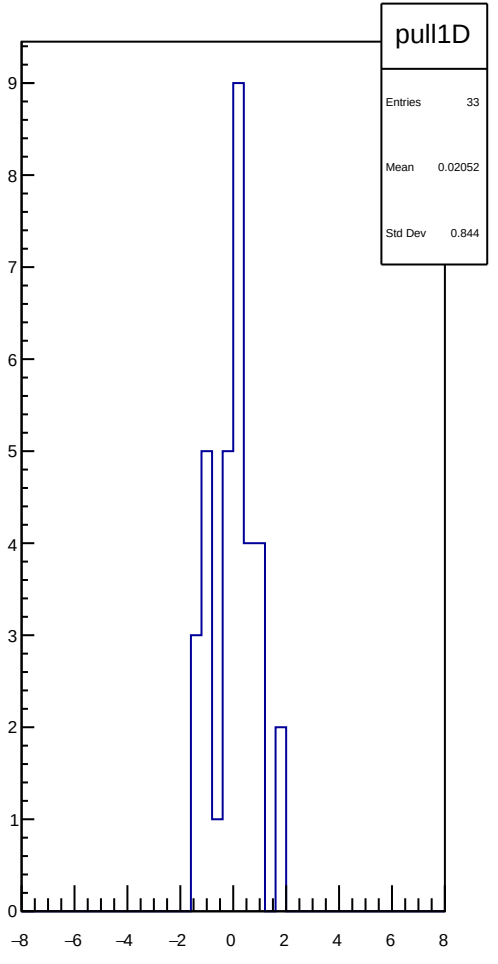

reg_asym_ds_dd_rms vs run
χ² / ndf 53.25 / 32
p0 86.23 ± 0.1067
89
88
87
86
85
84
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

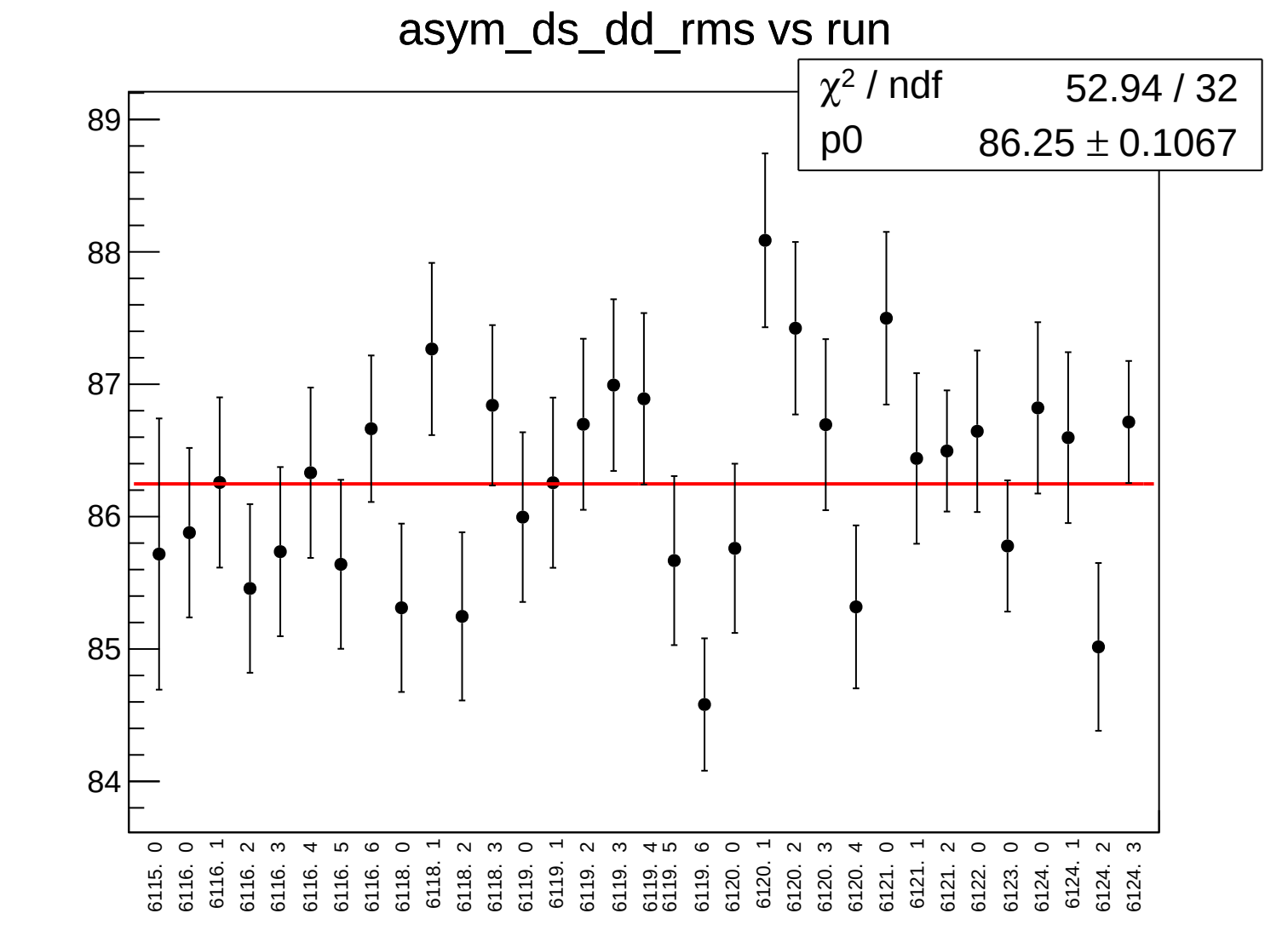

asym_ds_dd_correction_mean vs run
χ² / ndf 25.8 / 32
p0 3.032 ± 1.959
pull
Entries 33
Mean 16.02
Std Dev 9.756

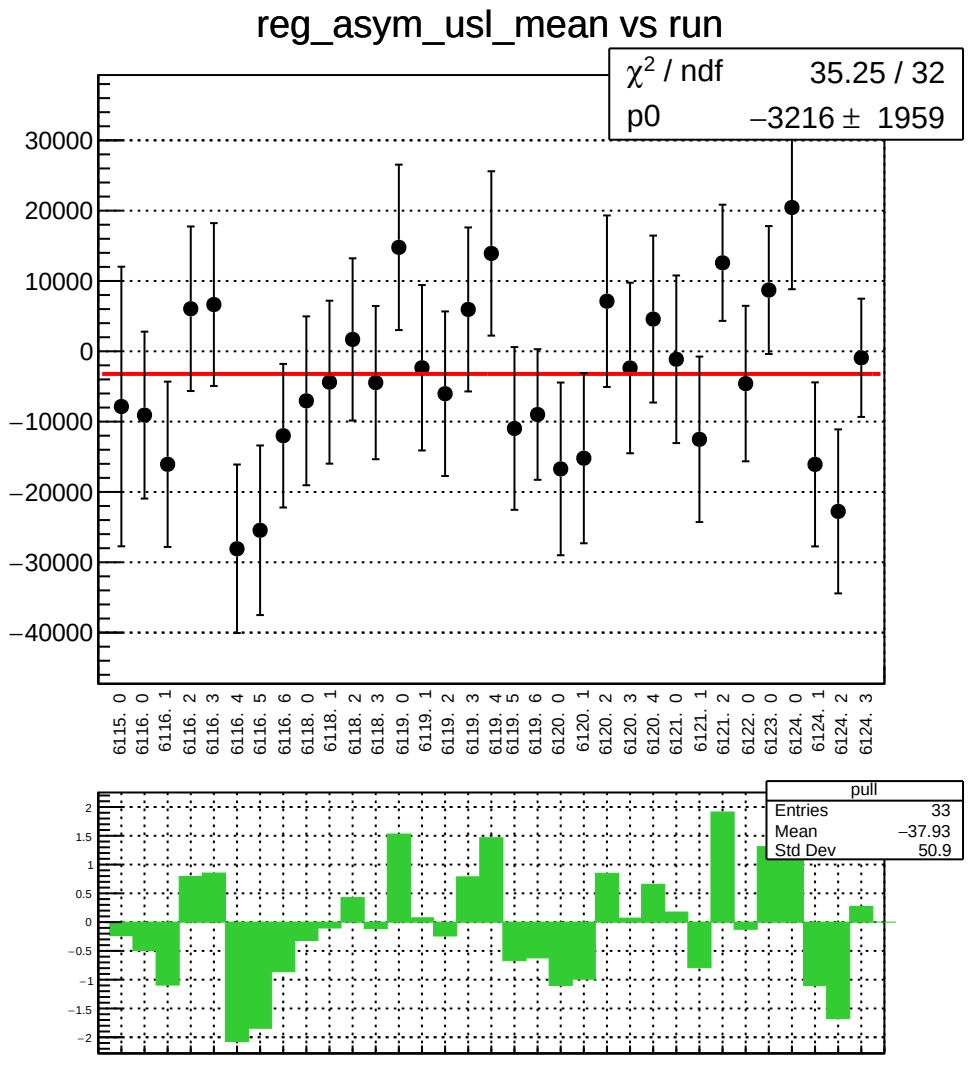

pull1D
Entries 33
Mean 0.1183
Std Dev 0.8763

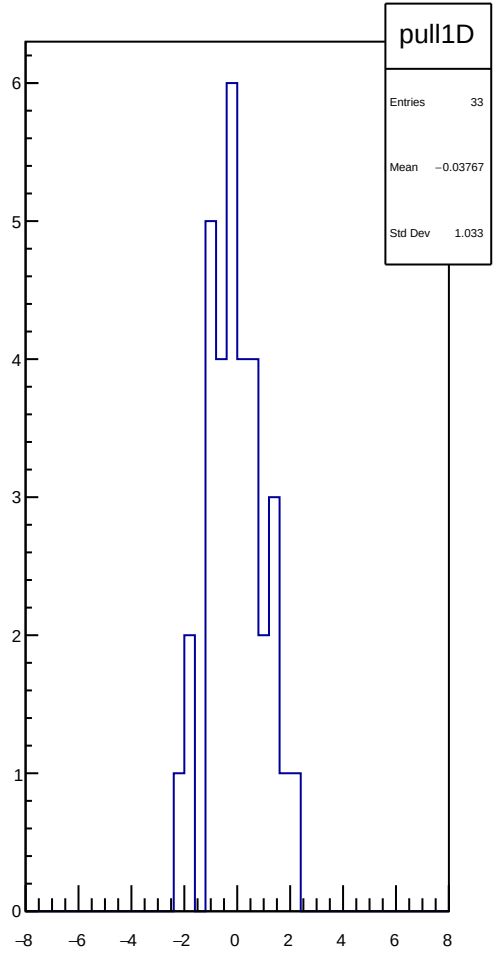

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.886e+05 / 32
p0 0.9441 ± 0.001385
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

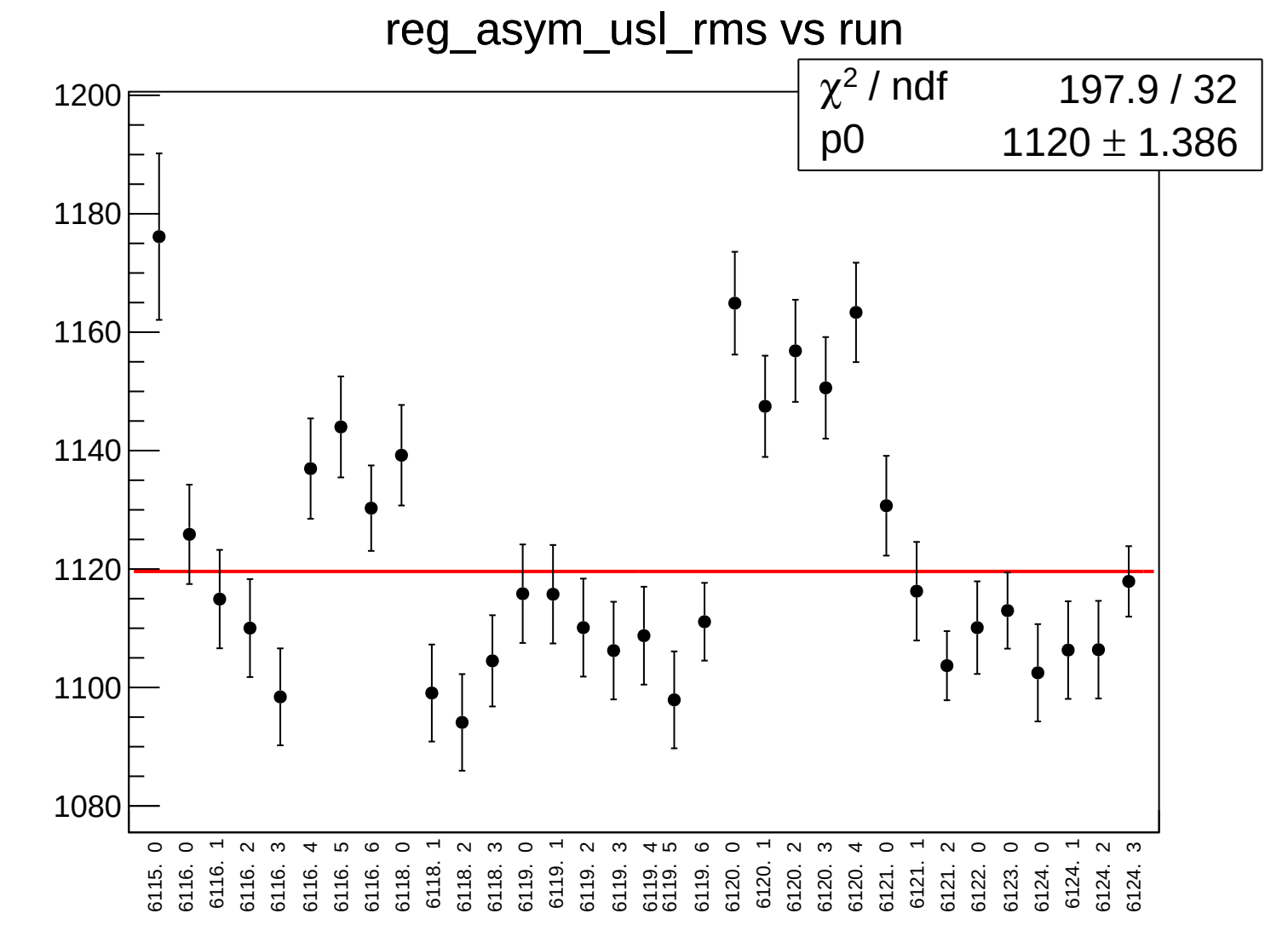

asym_ds_dd_mean vs run
χ² / ndf 23.52 / 32
p0 −163.9 ± 150.9
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −28.81
Std Dev 45.05
2
1.5
1
0.5
0
−0.5
−1
−1.5

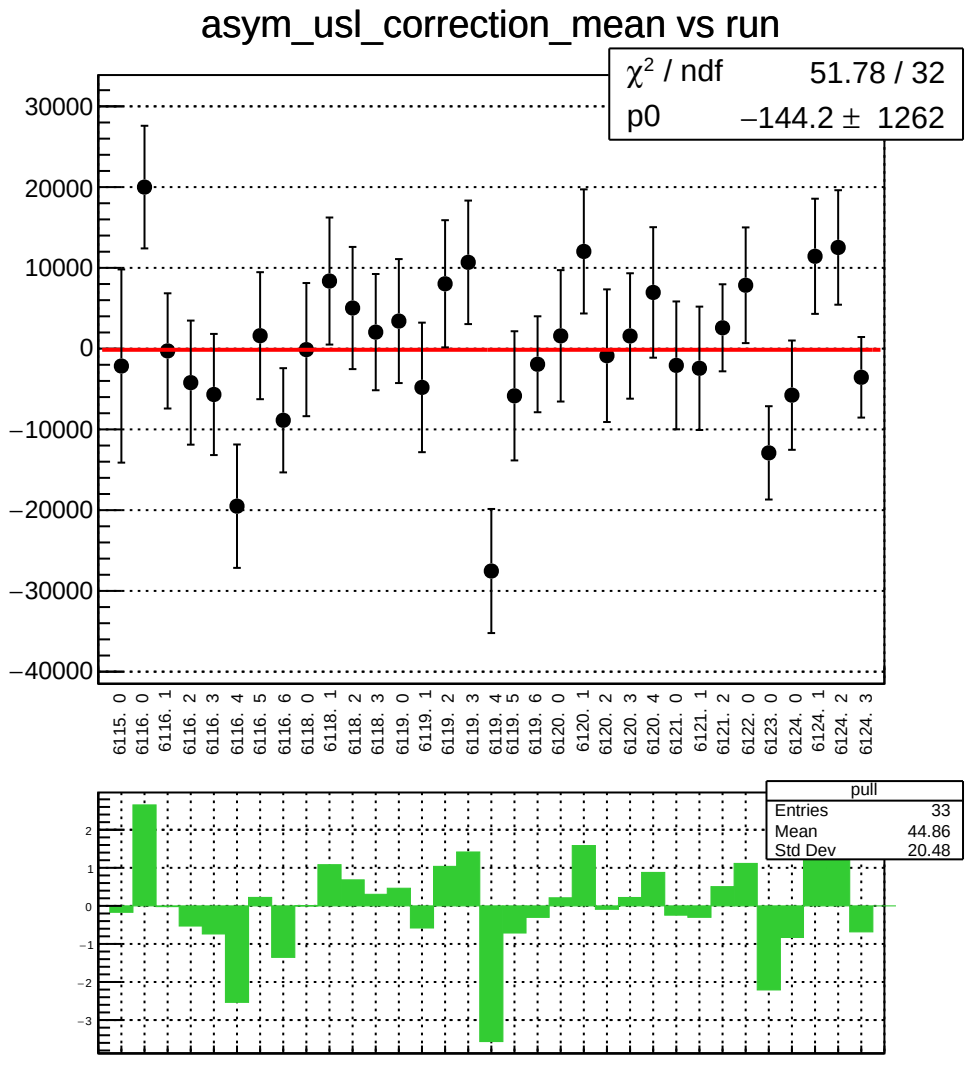

pull1D
Entries 33
Mean 0.02052
Std Dev 0.844
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

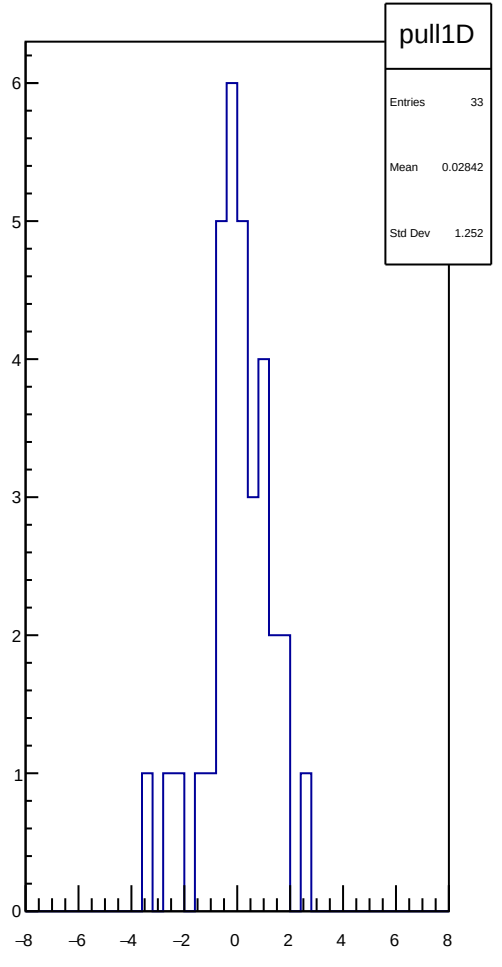

asym_ds_dd_rms vs run
χ^2 / ndf 52.94 / 32
p0 86.25 ± 0.1067
89
88
87
86
85
84
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

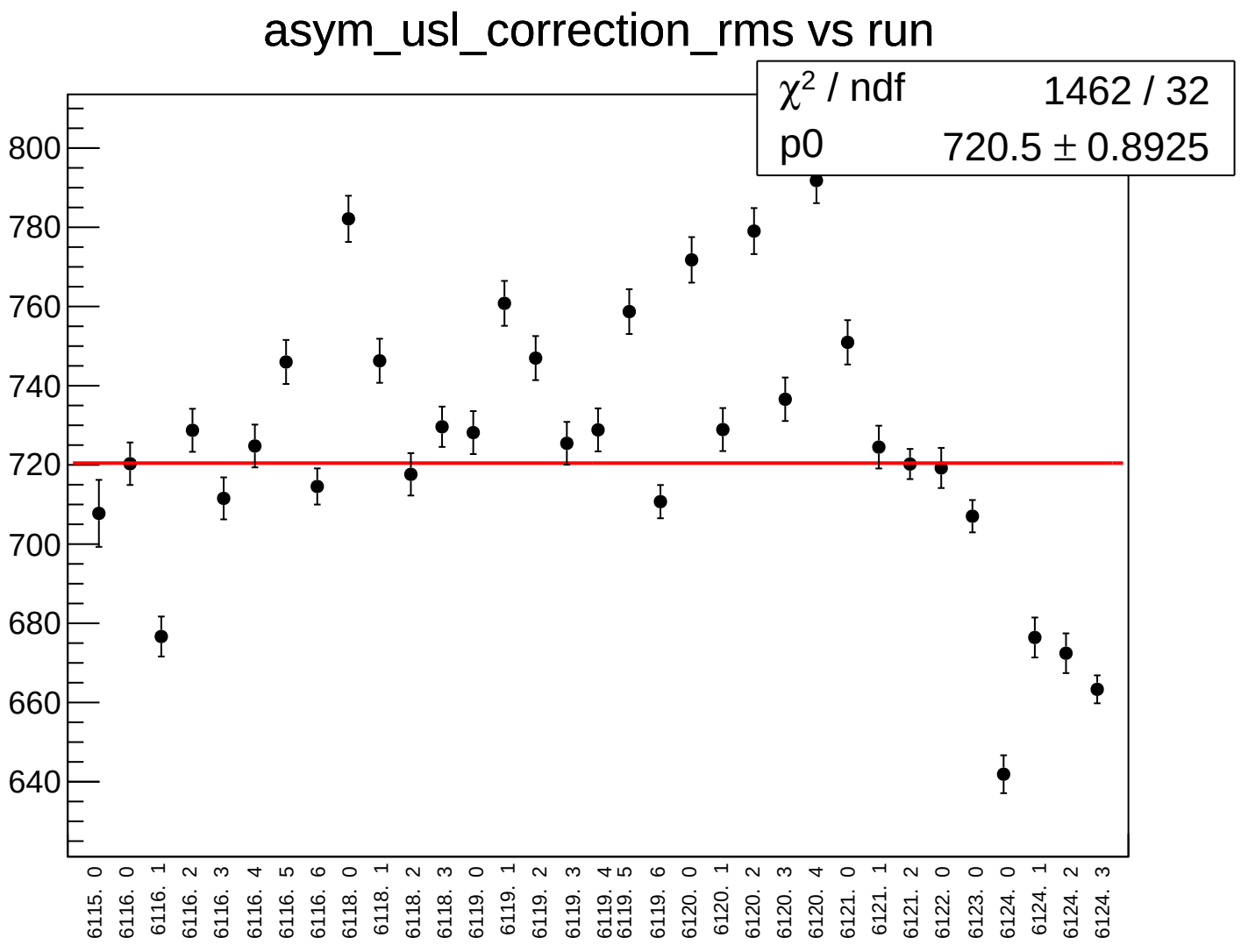

reg_asym_usl_mean vs run
χ² / ndf 35.25 / 32
p0 −3216 ± 1959
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −37.93
Std Dev 50.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

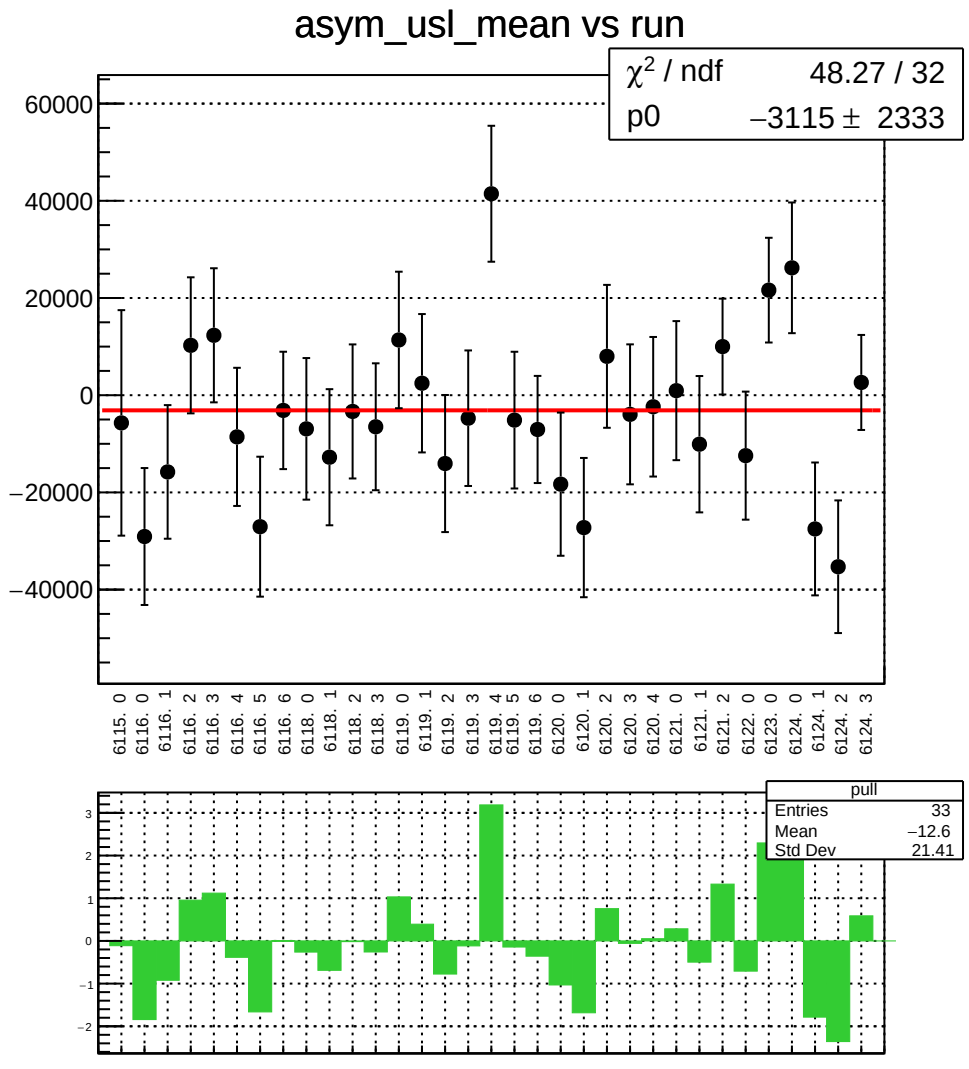

pull1D
Entries 33
Mean −0.03767
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

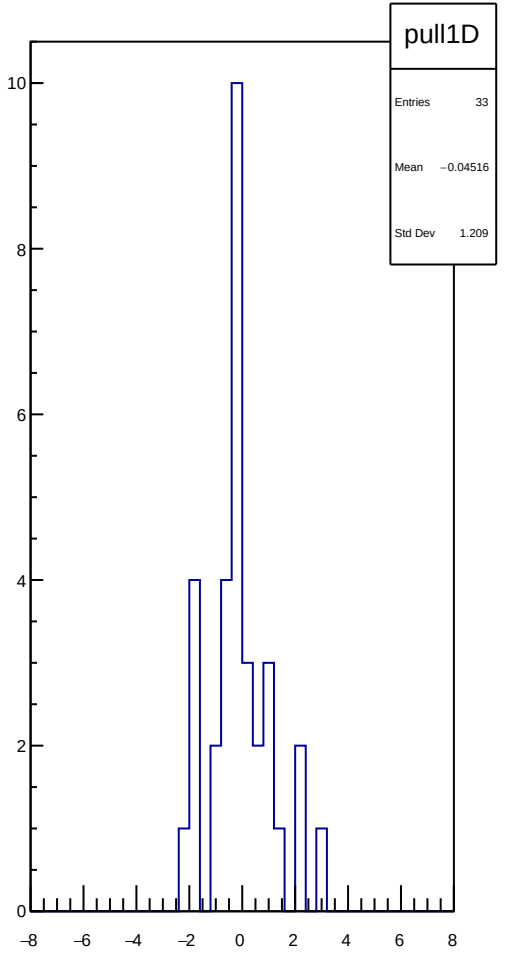

reg_asym_usl_rms vs run
χ² / ndf 197.9 / 32
p0 1120 ± 1.386
1200
1180
1160
1140
1120
1100
1080
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

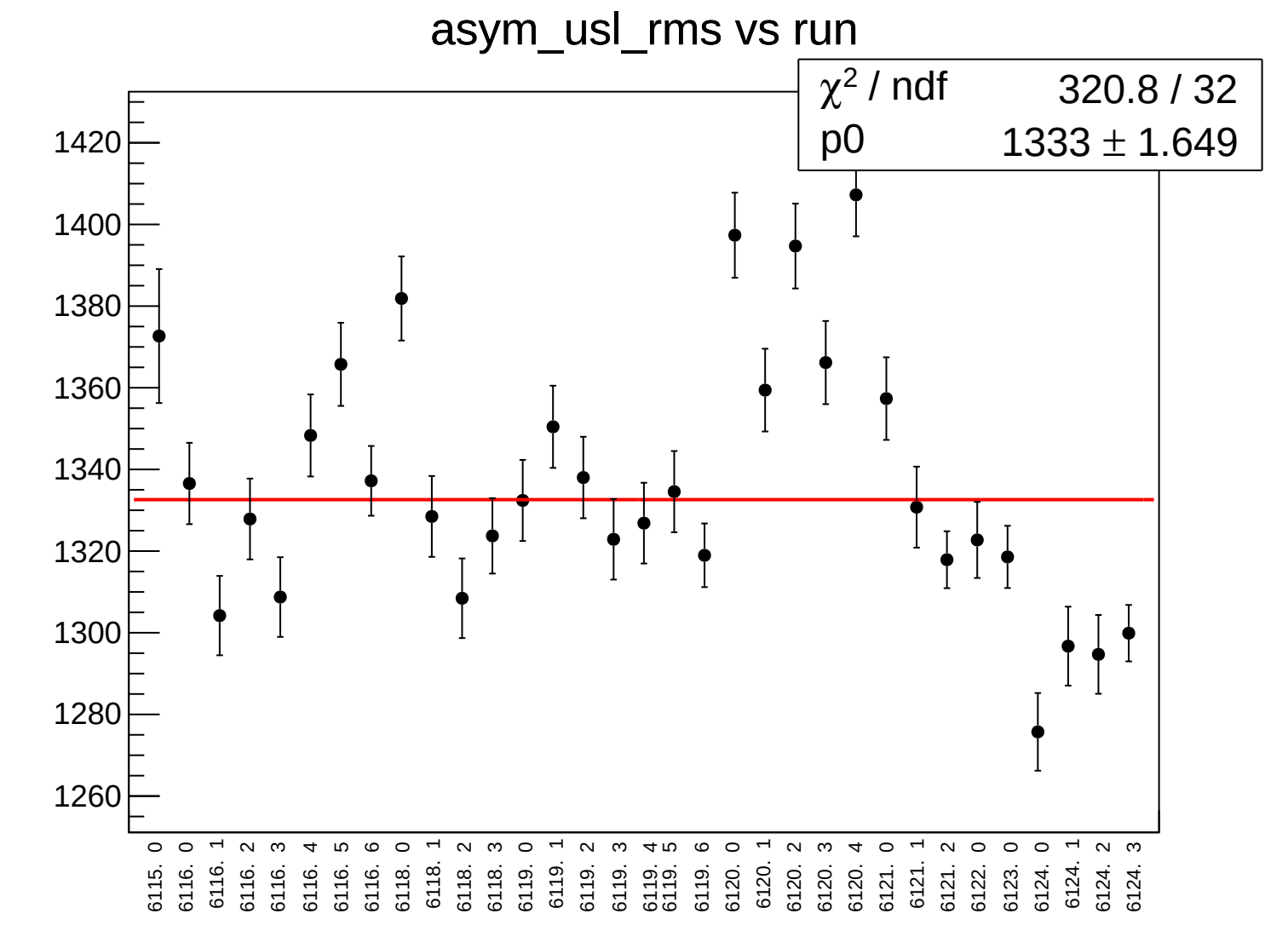

asym_usl_correction_mean vs run
χ² / ndf 51.78 / 32
p0 −144.2 ± 1262
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 44.86
Std Dev 20.48
2
1
0
−1
−2
−3

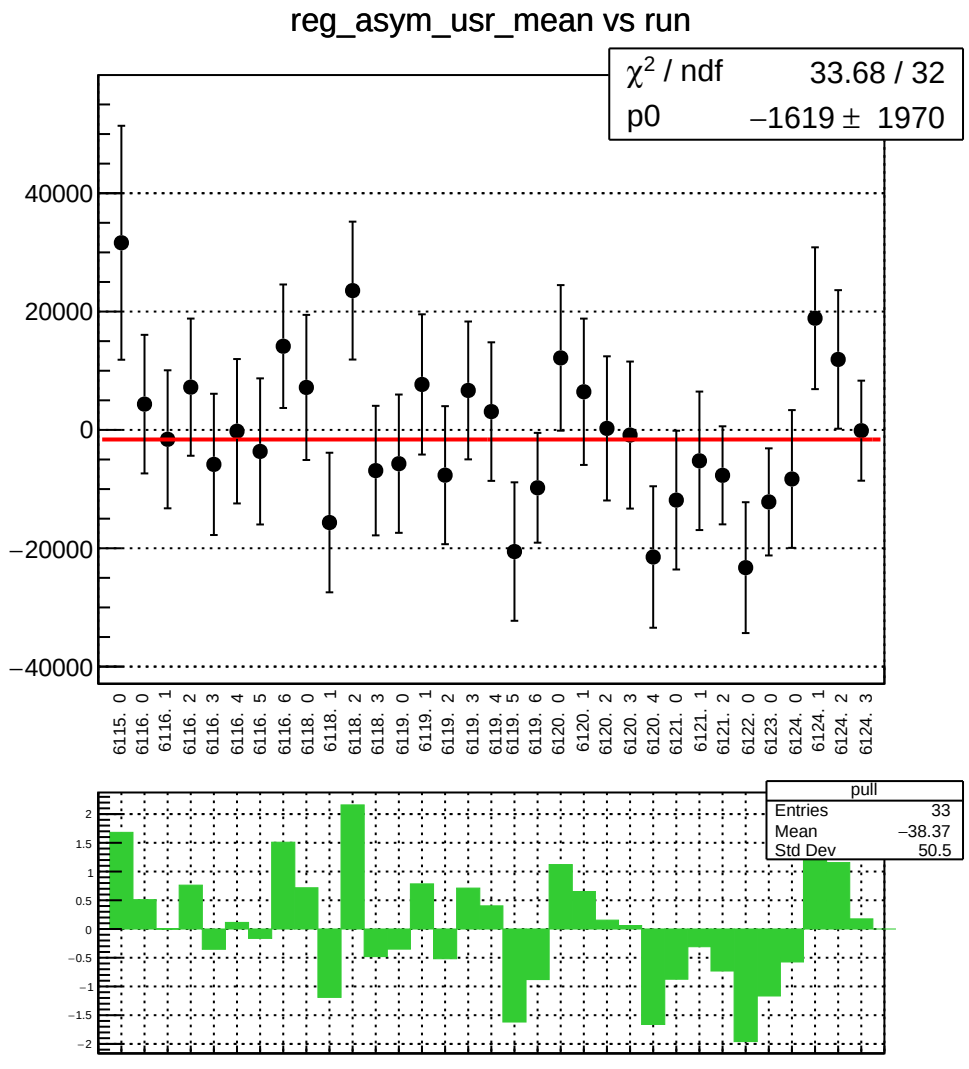

pull1D
Entries 33
Mean 0.02842
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

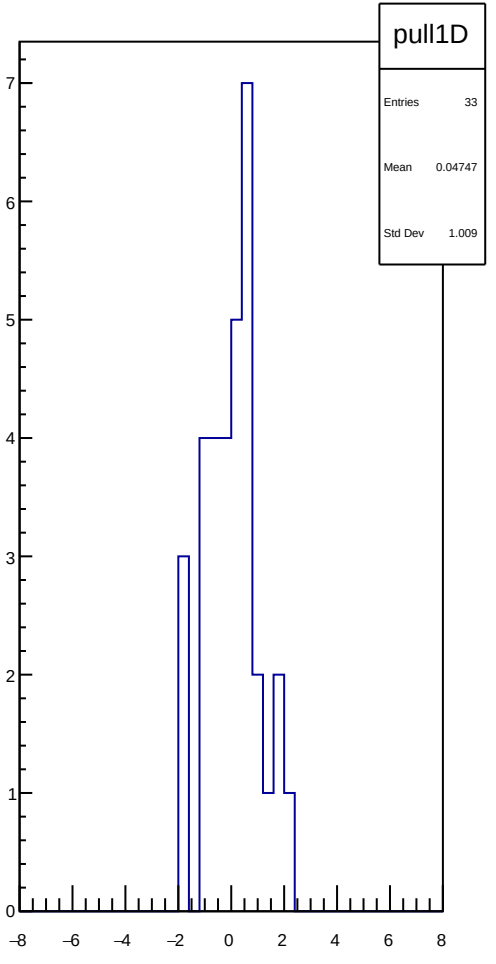

asym_usl_correction_rms vs run
χ² / ndf 1462 / 32
p0 720.5 ± 0.8925
800
780
760
740
720
700
680
660
640
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

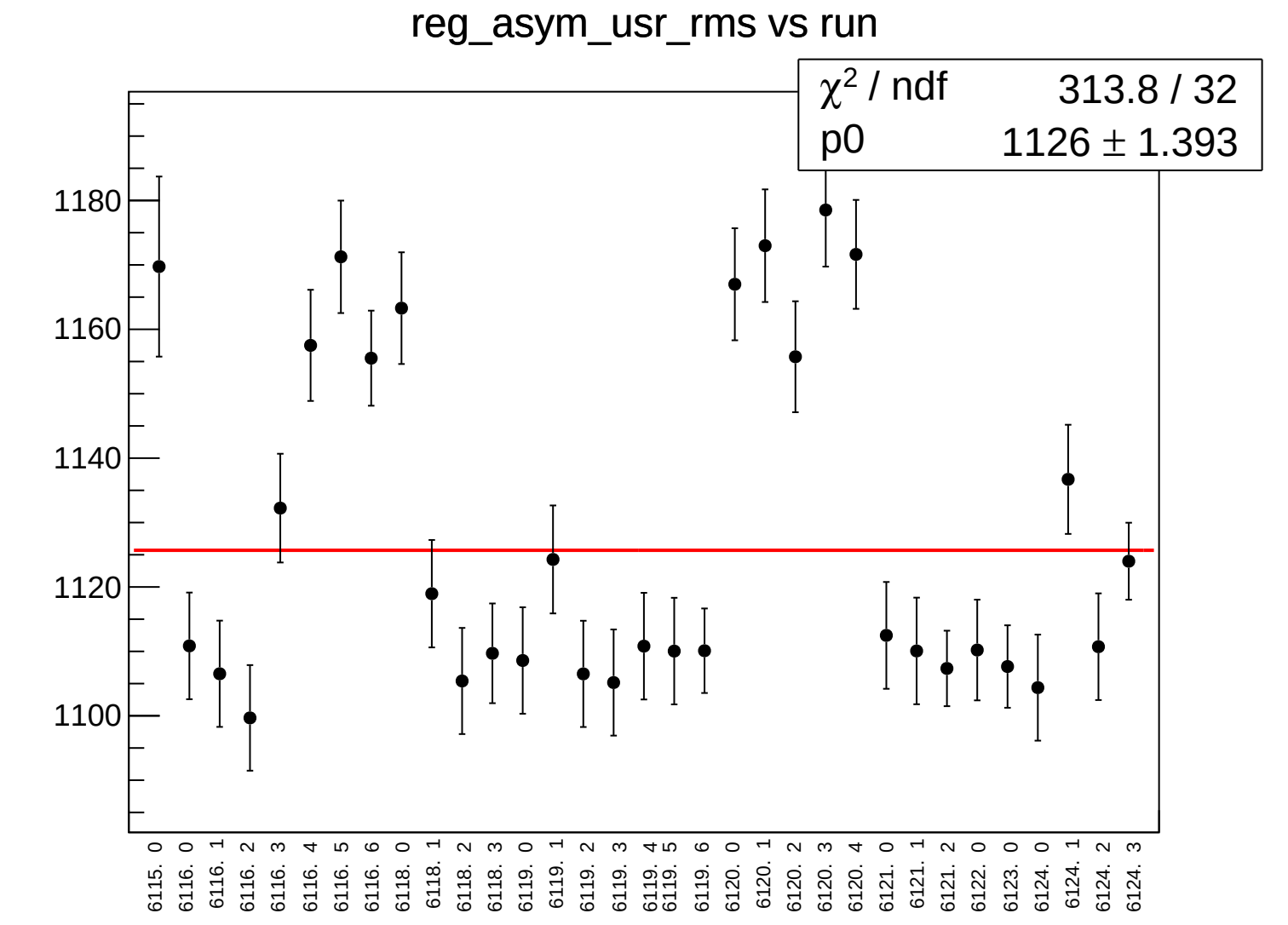

asym_usl_mean vs run
χ² / ndf 48.27 / 32
p0 −3115 ± 2333
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −12.6
Std Dev 21.41
3
2
1
0
−1
−2

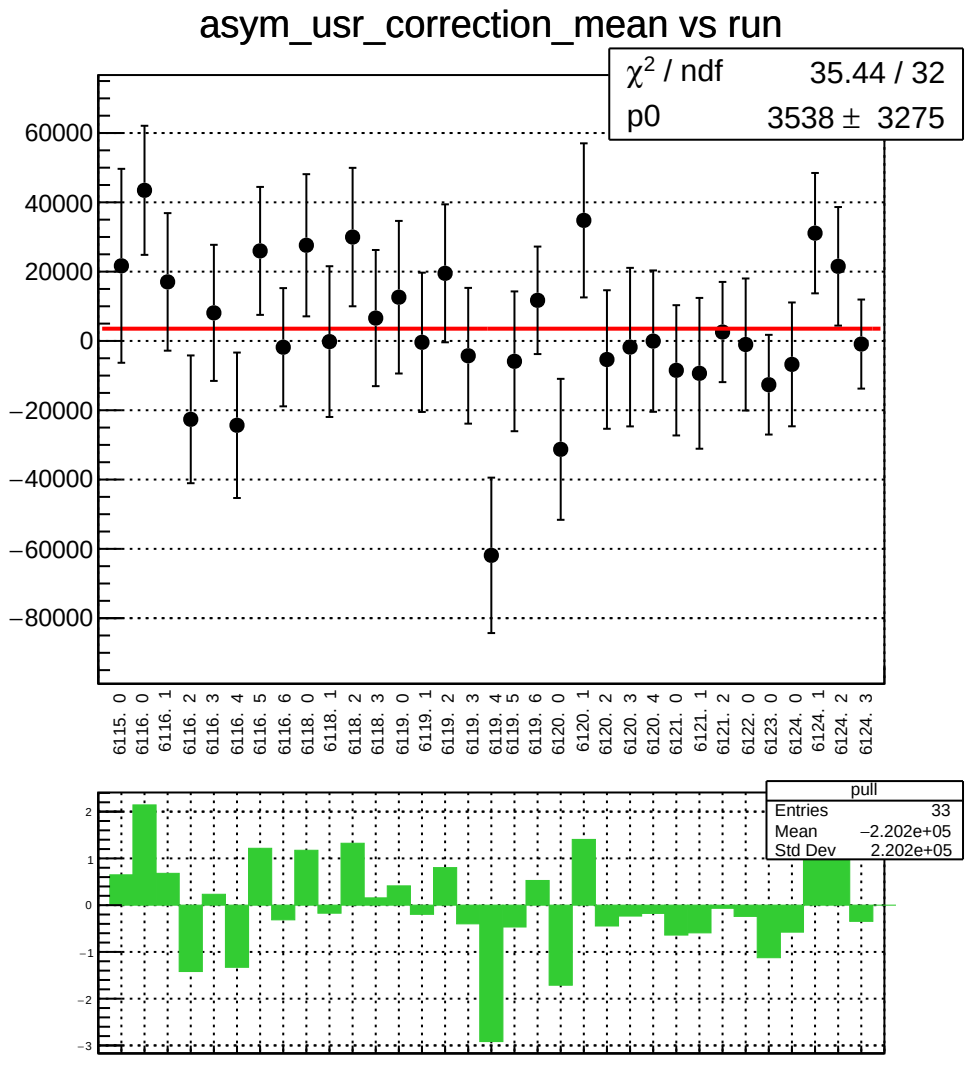

pull1D
Entries 33
Mean −0.04516
Std Dev 1.209
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

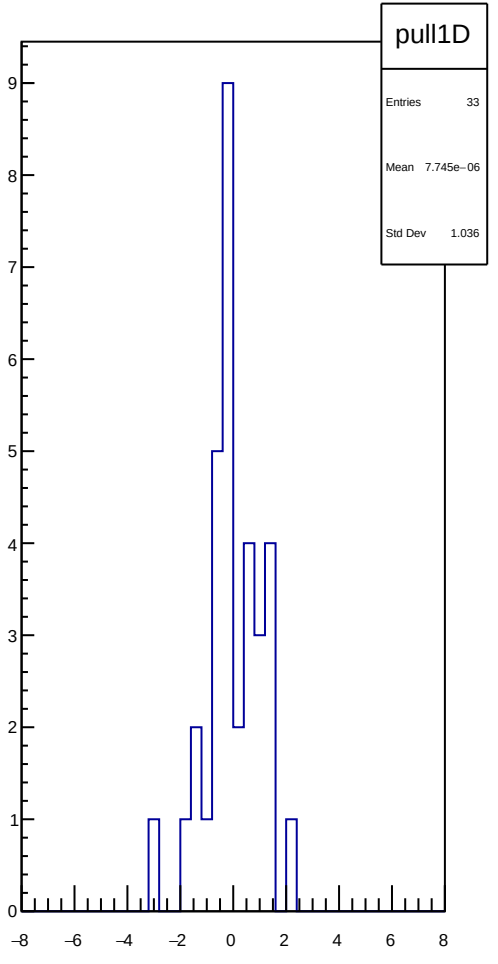

asym_usl_rms vs run
χ² / ndf 320.8 / 32
p0 1333 ± 1.649
1420
1400
1380
1360
1340
1320
1300
1280
1260
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

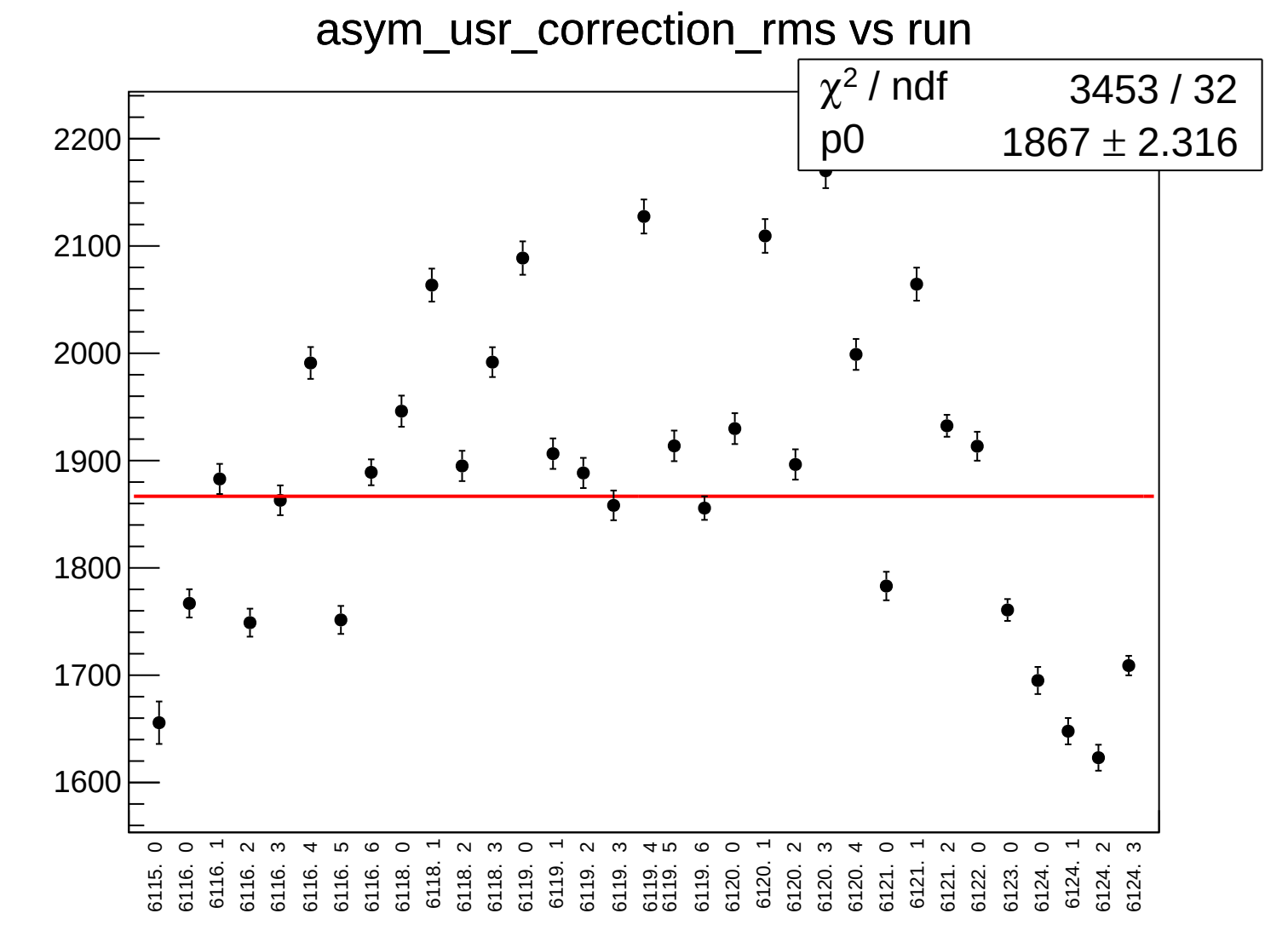

reg_asym_usr_mean vs run
χ² / ndf 33.68 / 32
p0 −1619 ± 1970
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −38.37
Std Dev 50.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

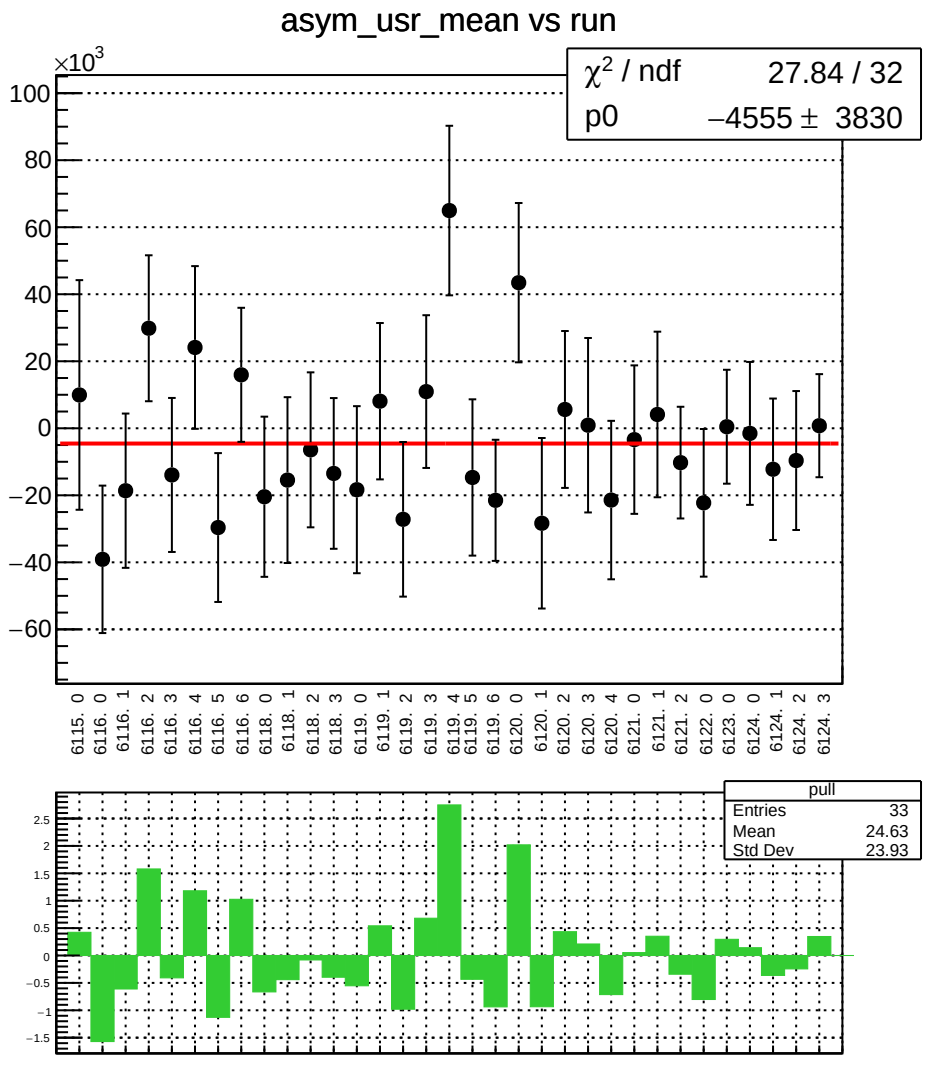

pull1D
Entries 33
Mean 0.04747
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

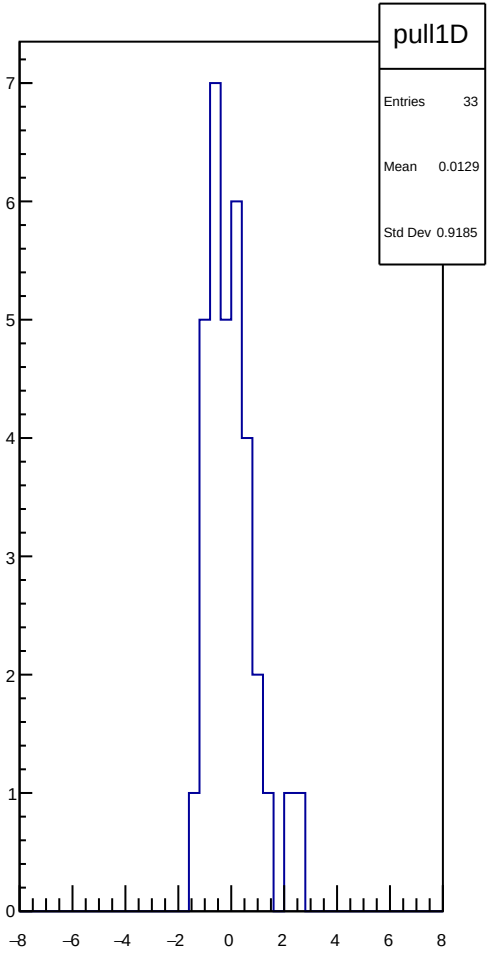

reg_asym_usr_rms vs run
χ² / ndf 313.8 / 32
p0 1126 ± 1.393
1180
1160
1140
1120
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

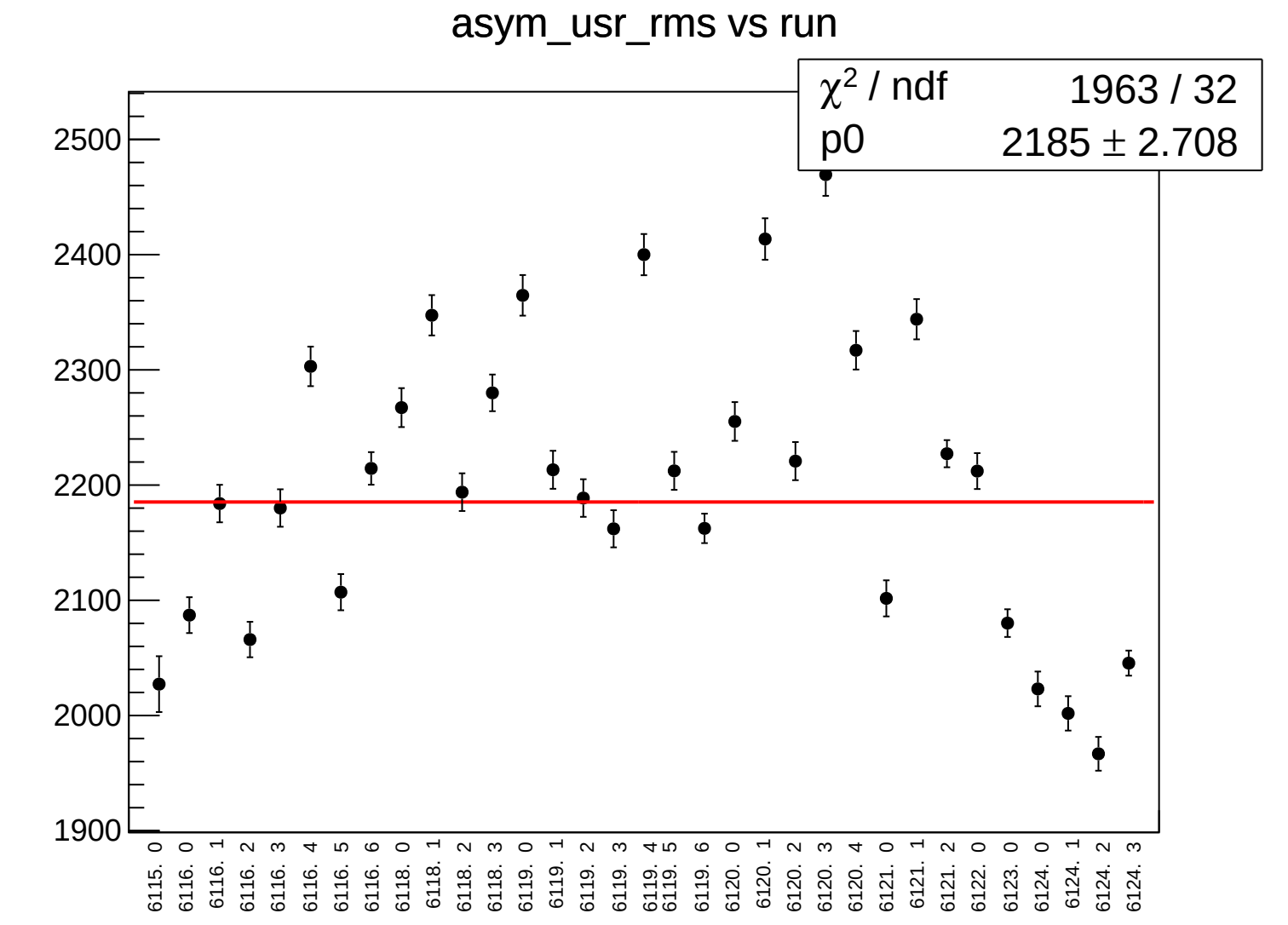

asym_usr_correction_mean vs run
χ² / ndf 35.44 / 32
p0 3538 ± 3275
60000
40000
20000
0
−20000
−40000
−60000
−80000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −2.202e+05
Std Dev 2.202e+05
2
1
0
−1
−2
−3

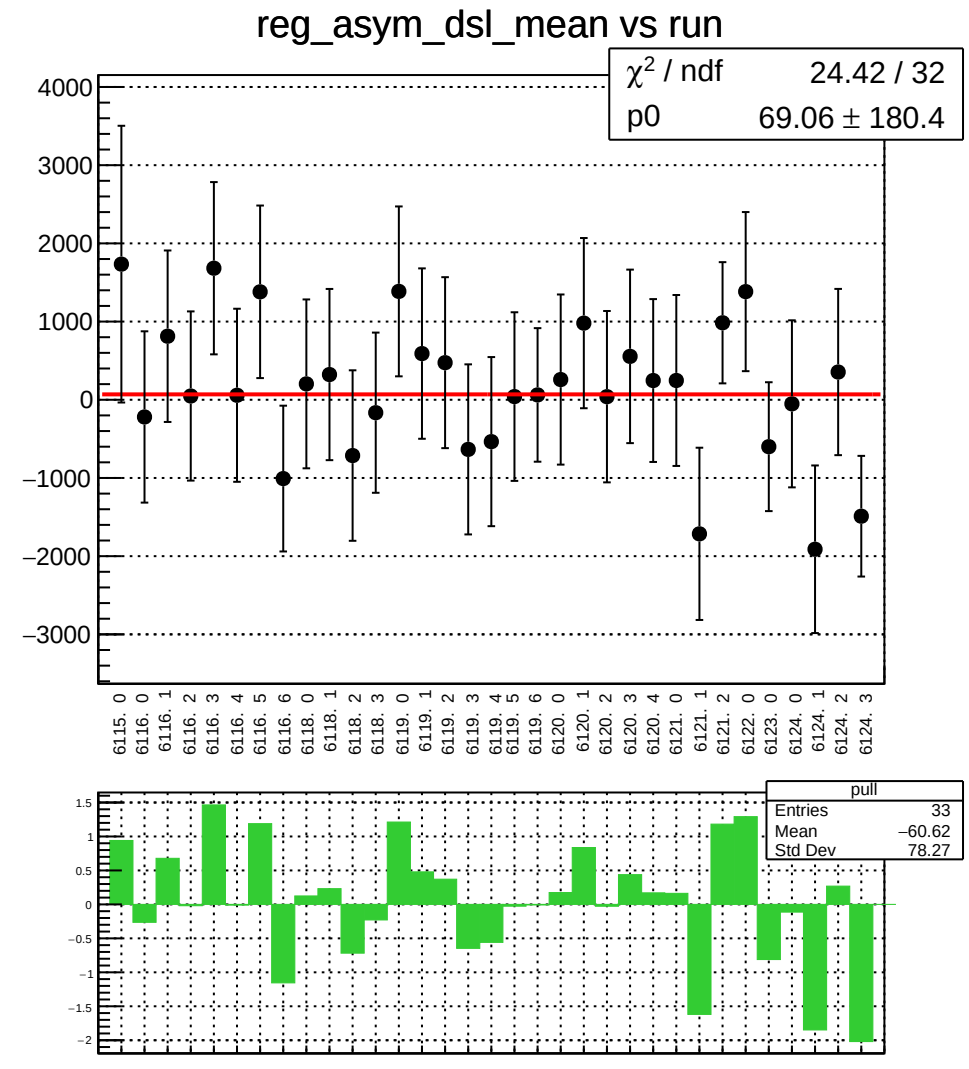

pull1D
Entries 33
Mean 7.745e−06
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

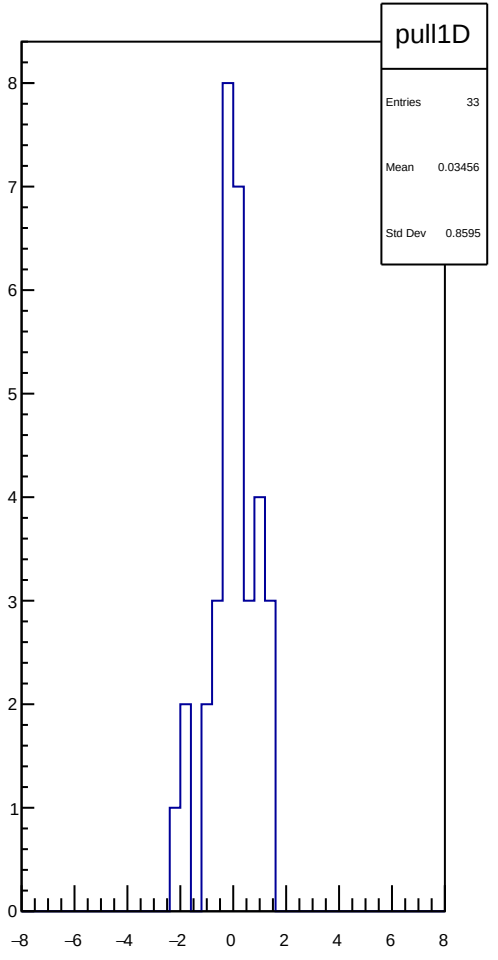

asym_usr_correction_rms vs run
χ² / ndf 3453 / 32
p0 1867 ± 2.316
2200
2100
2000
1900
1800
1700
1600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

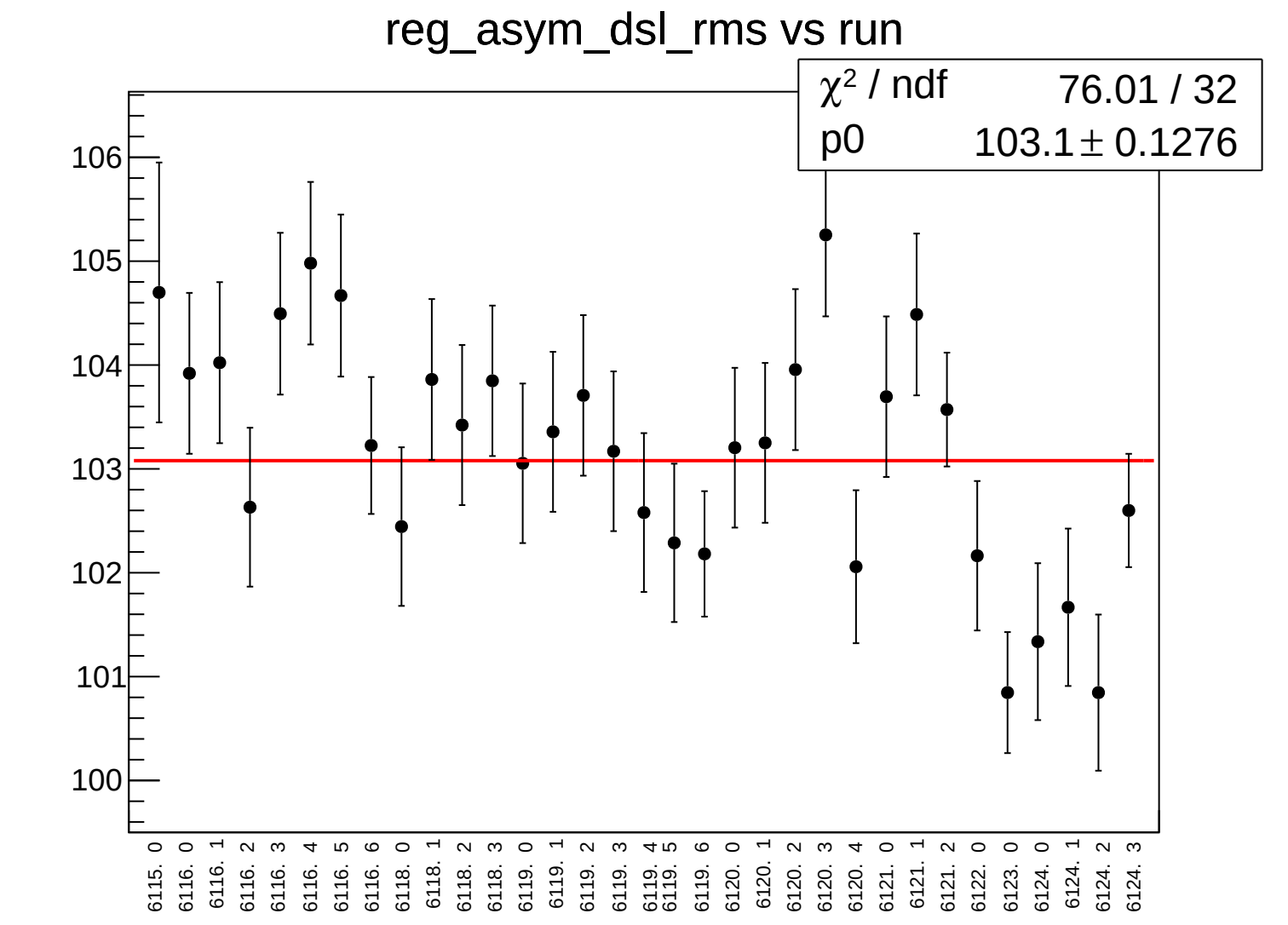

asym_usr_mean vs run
×10^3
χ^2 / ndf 27.84 / 32
p0 −4555 ± 3830
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 24.63
Std Dev 23.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

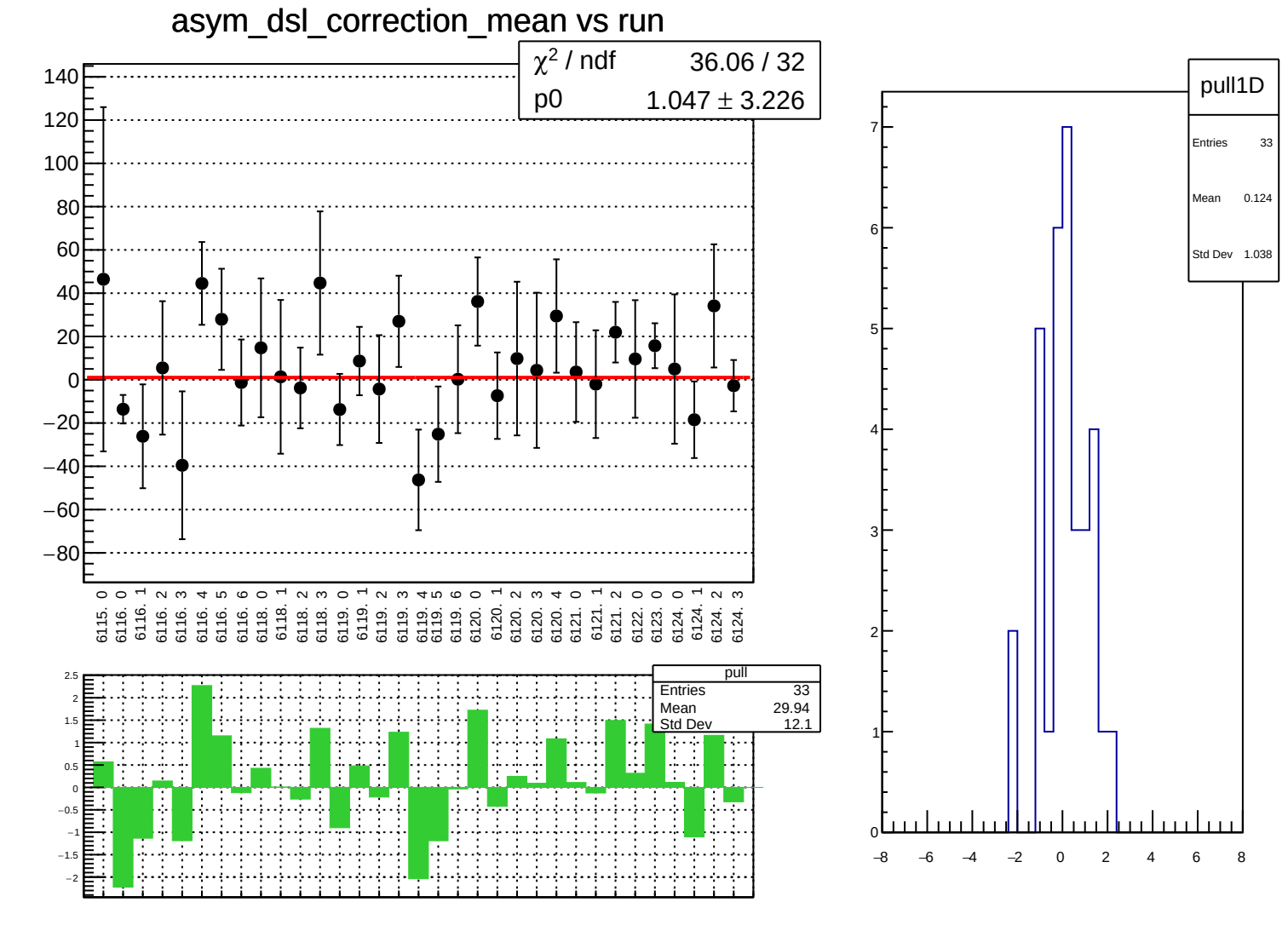

pull1D
Entries 33
Mean 0.0129
Std Dev 0.9185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

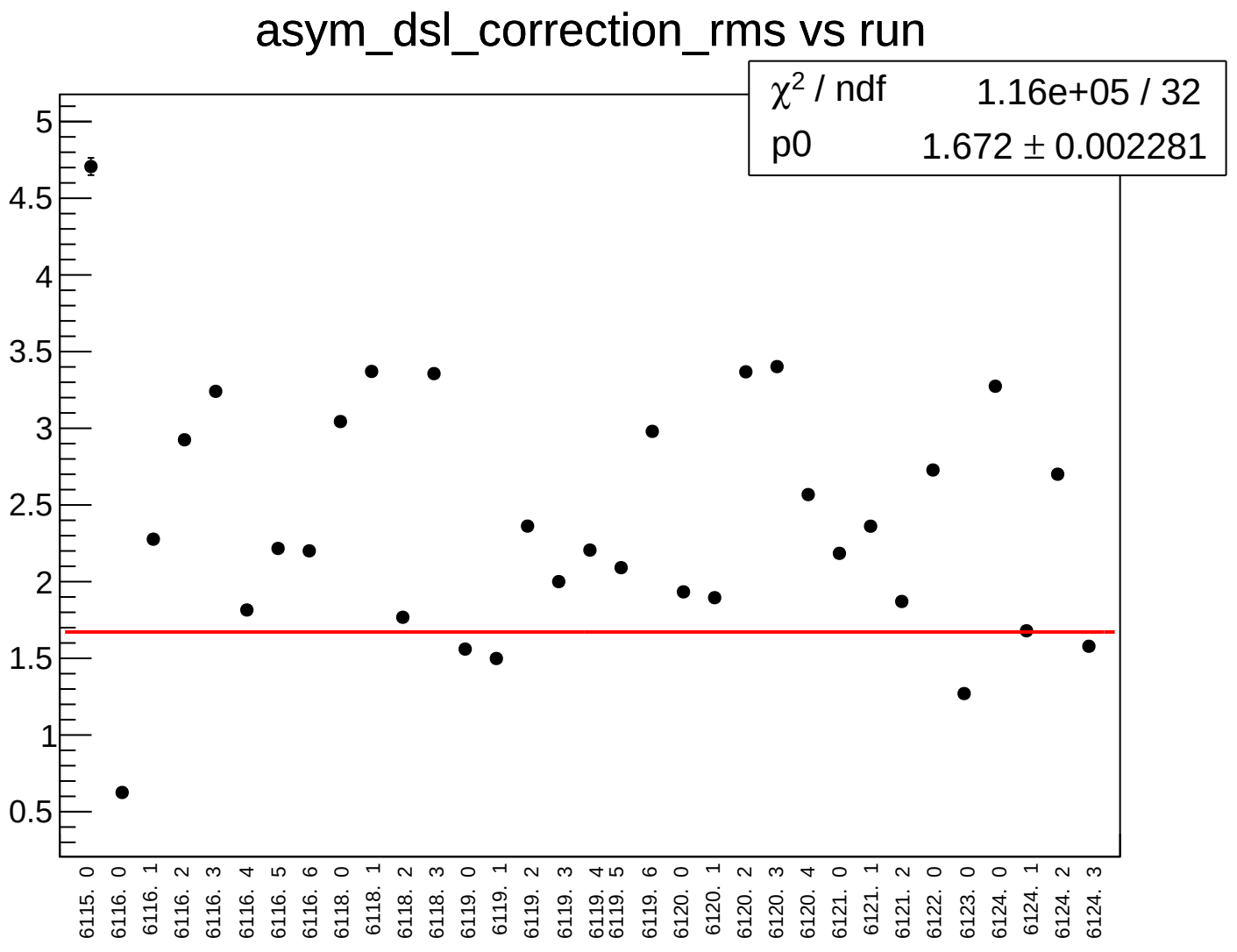

asym_usr_rms vs run
χ² / ndf 1963 / 32
p0 2185 ± 2.708
2500
2400
2300
2200
2100
2000
1900
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

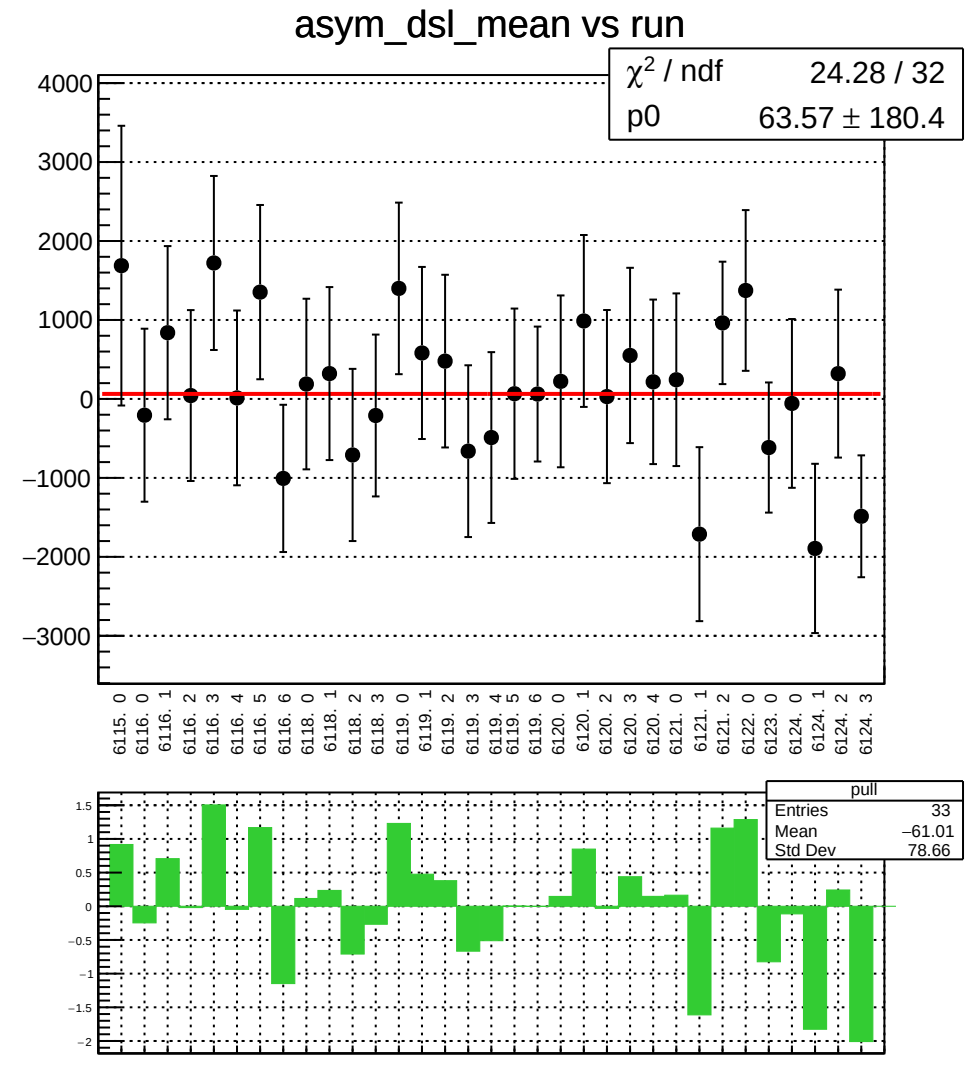

reg_asym_dsl_mean vs run
χ² / ndf 24.42 / 32
p0 69.06 ± 180.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −60.62
Std Dev 78.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

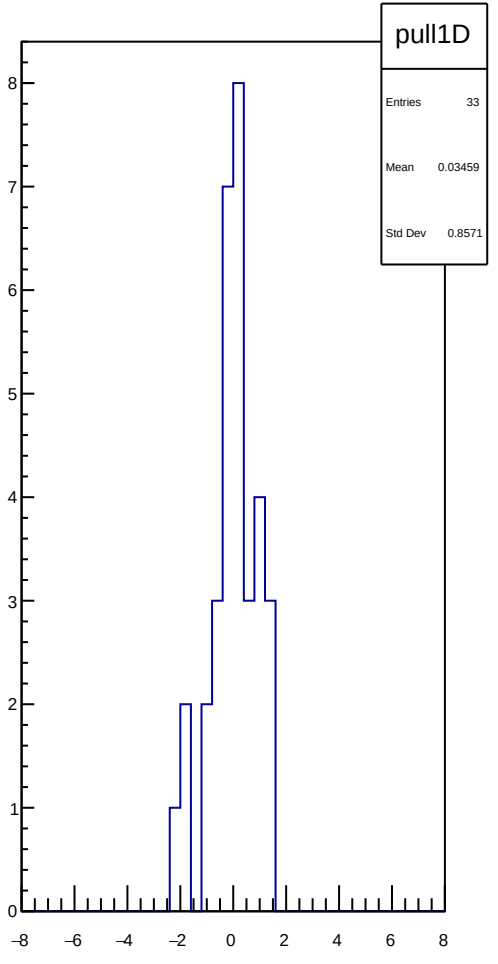

pull1D
Entries 33
Mean 0.03456
Std Dev 0.8595
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

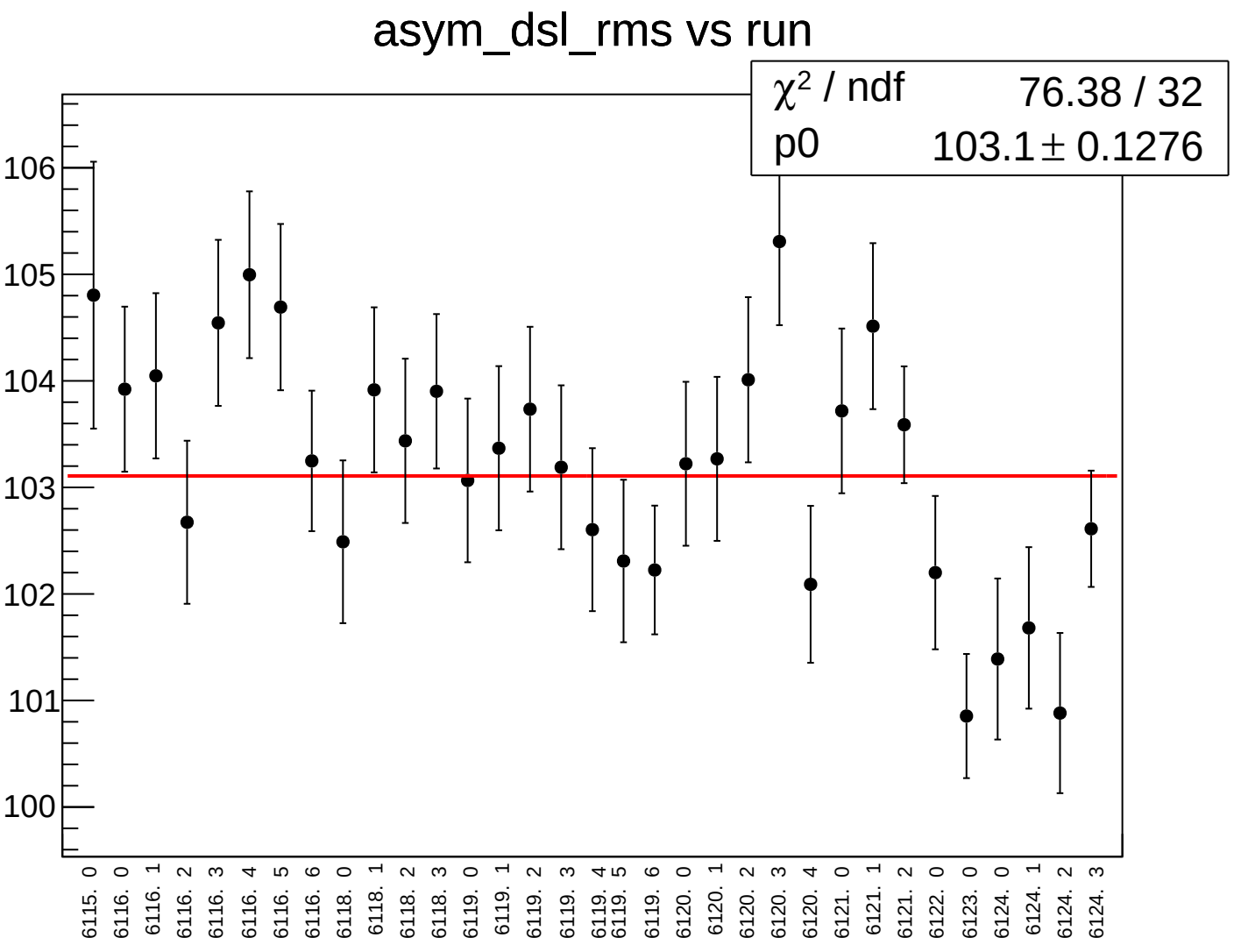

reg_asym_dsl_rms vs run
χ² / ndf 76.01 / 32
p0 103.1 ± 0.1276
106
105
104
103
102
101
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

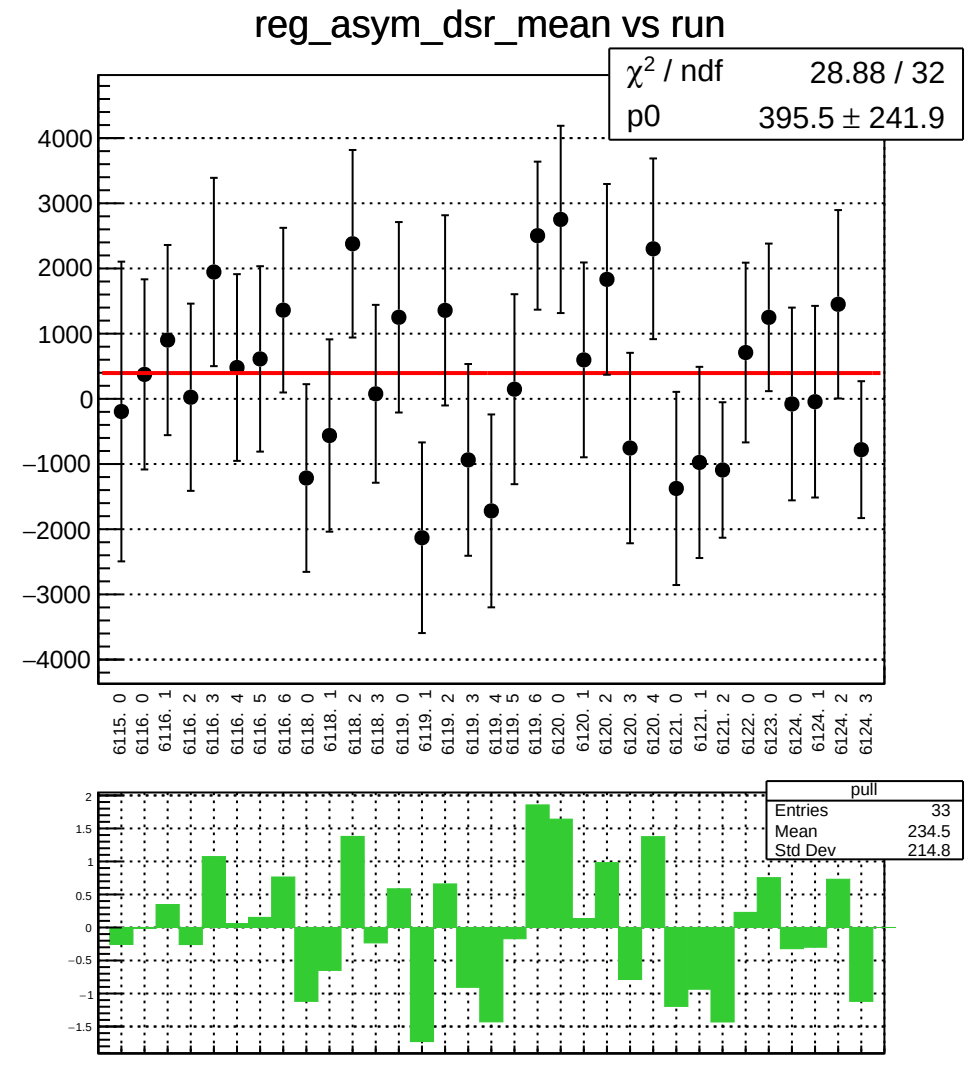

asym_dsl_correction_mean vs run
χ² / ndf 36.06 / 32
p0 1.047 ± 3.226
pull
Entries 33
Mean 29.94
Std Dev 12.1
pull1D
Entries 33
Mean 0.124
Std Dev 1.038

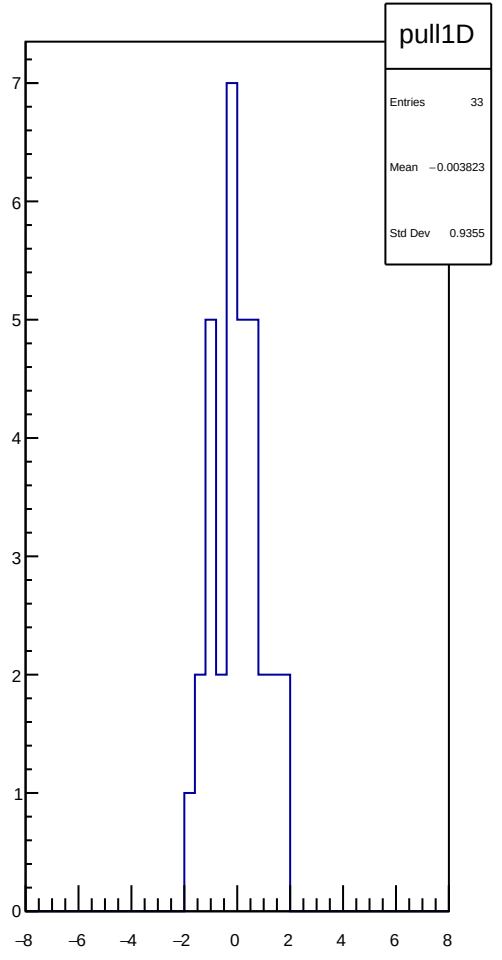

asym_dsl_correction_rms vs run
χ^2 / ndf 1.16e+05 / 32
p0 1.672 ± 0.002281
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

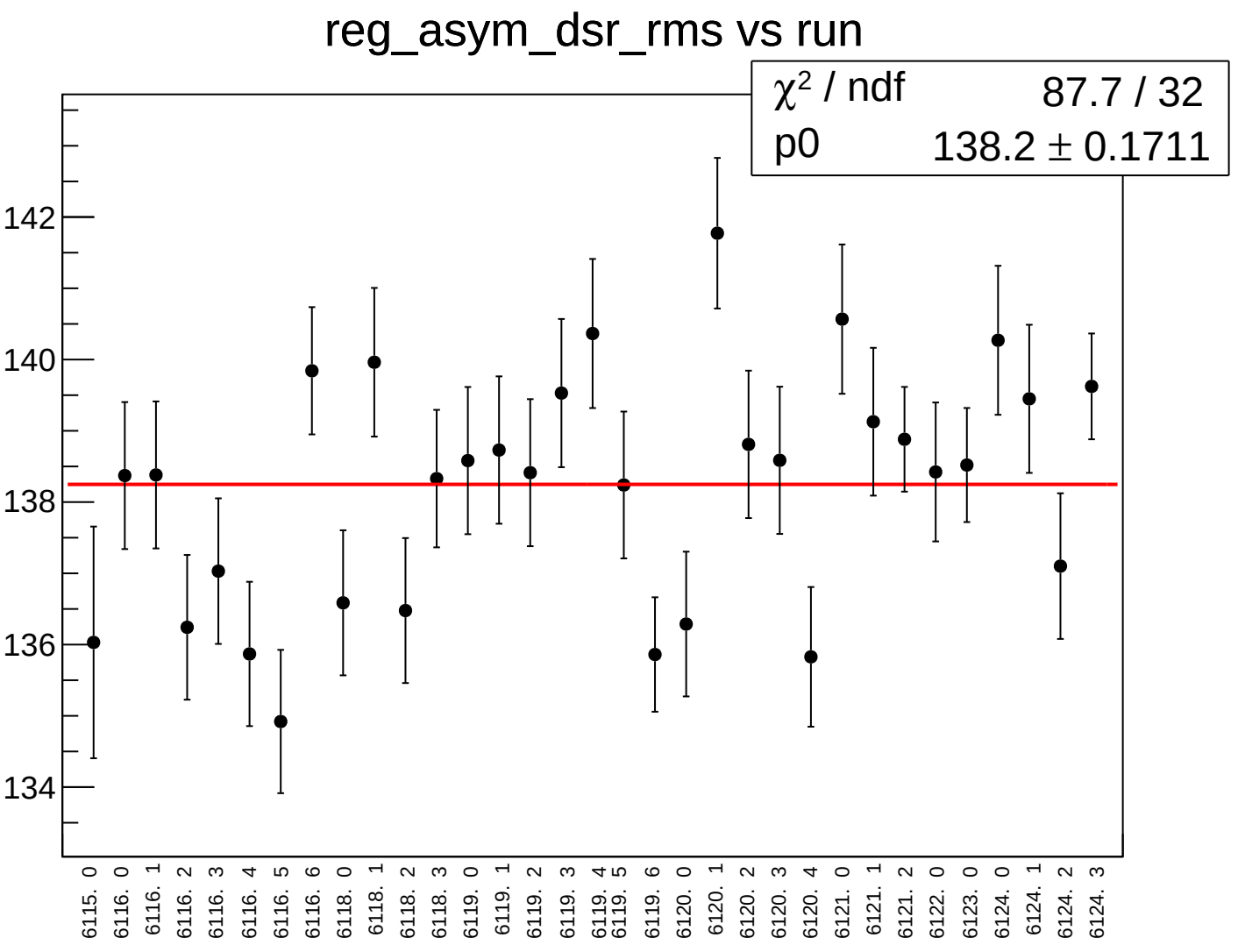

asym_dsl_mean vs run
χ² / ndf 24.28 / 32
p0 63.57 ± 180.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −61.01
Std Dev 78.66
1.5
1
0.5
0
−0.5
−1
−1.5
−2

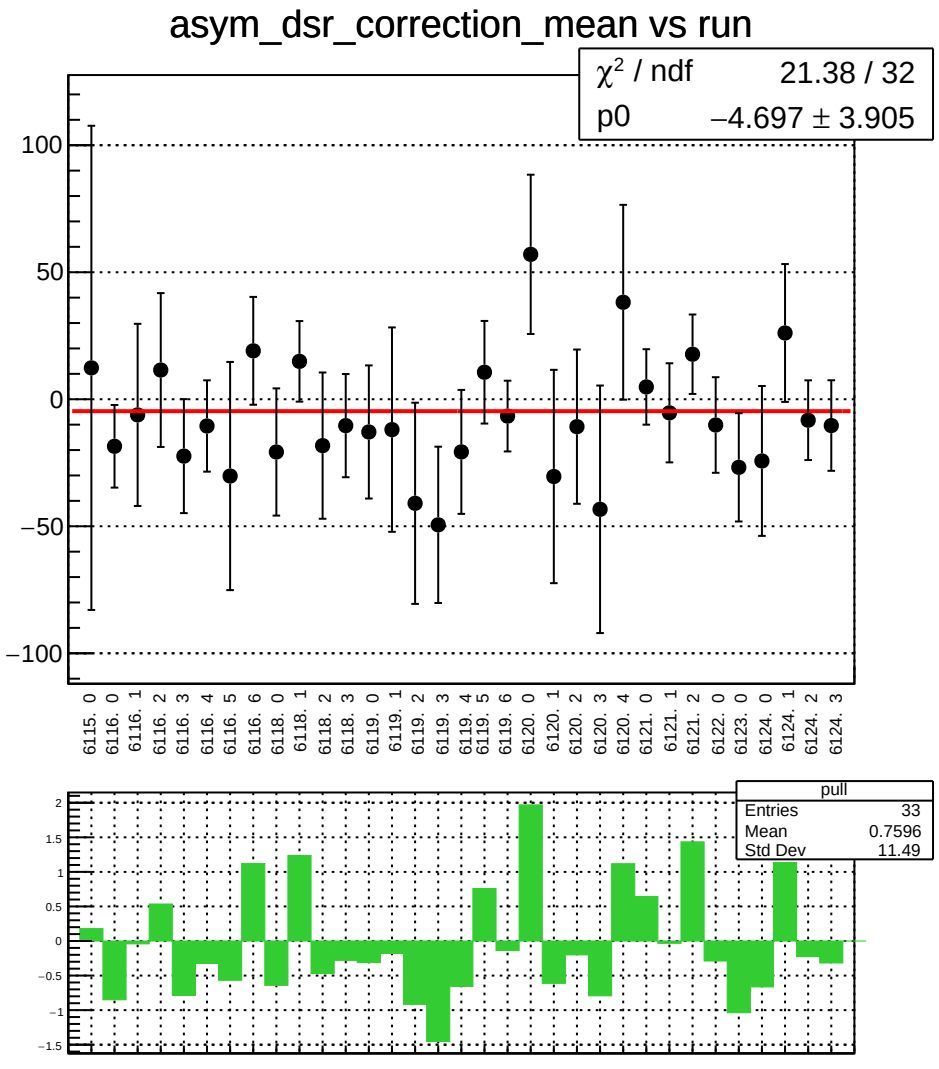

pull1D
Entries 33
Mean 0.03459
Std Dev 0.8571
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

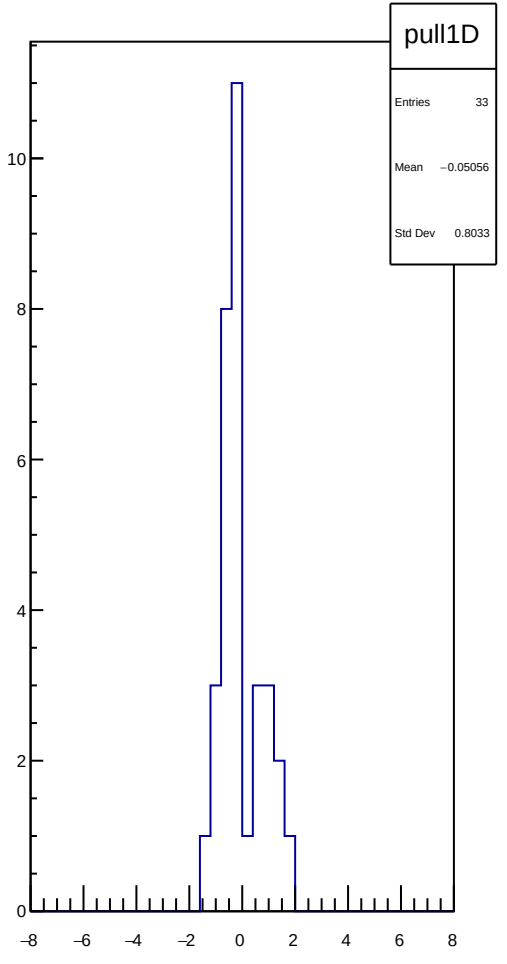

asym_dsl_rms vs run
χ² / ndf 76.38 / 32
p0 103.1 ± 0.1276
106
105
104
103
102
101
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

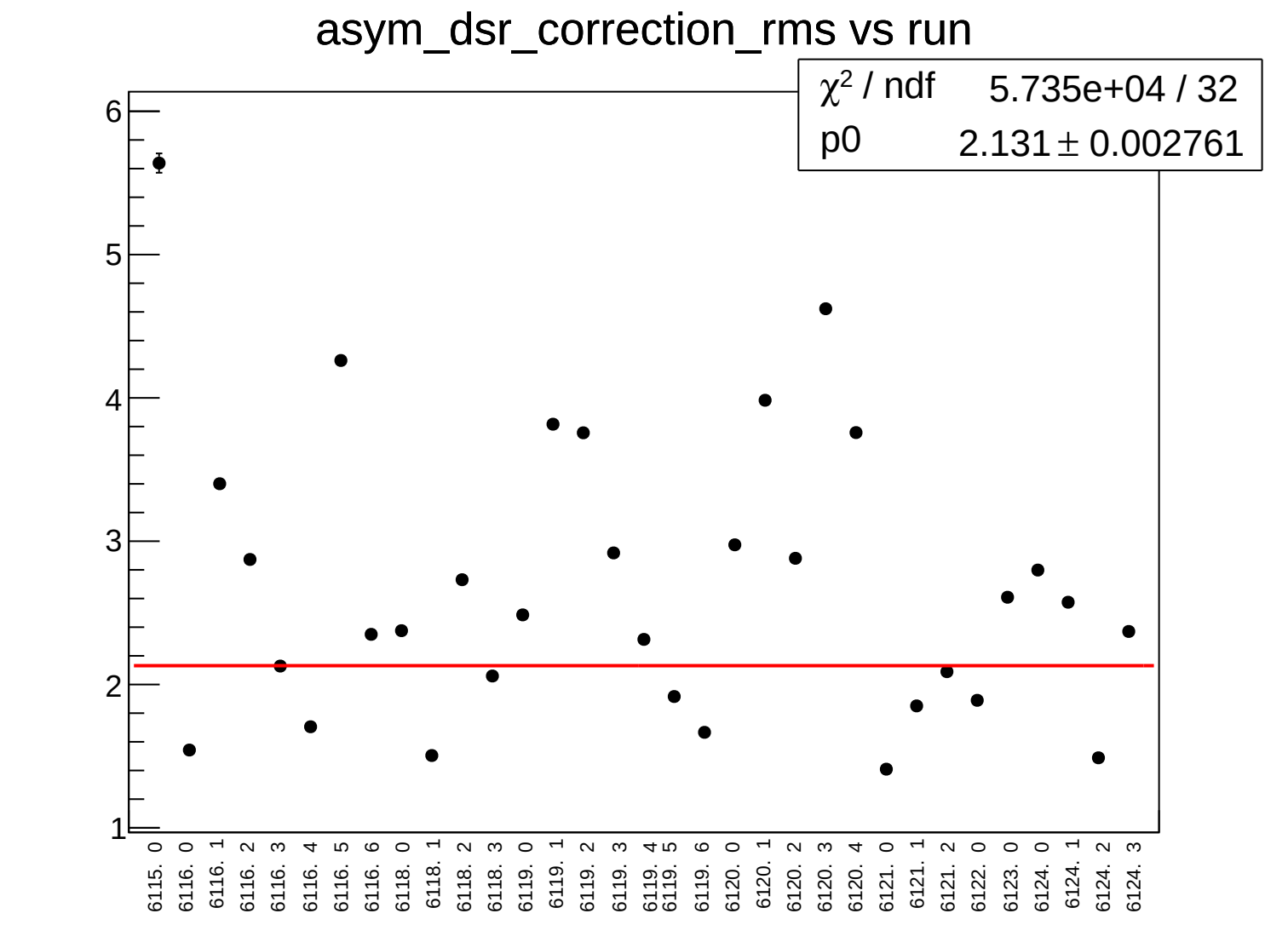

reg_asym_dsr_mean vs run
χ² / ndf 28.88 / 32
p0 395.5 ± 241.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 234.5
Std Dev 214.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

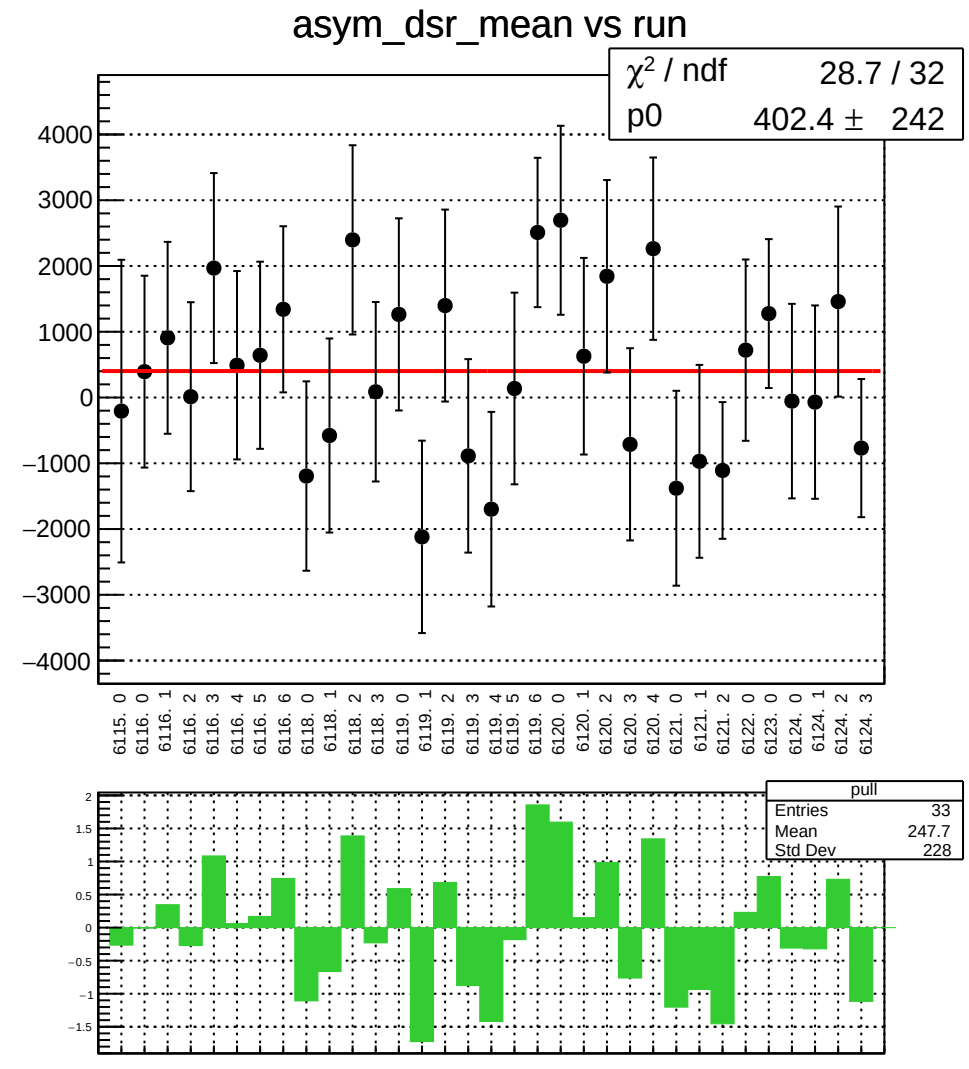

pull1D
Entries 33
Mean −0.003823
Std Dev 0.9355
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

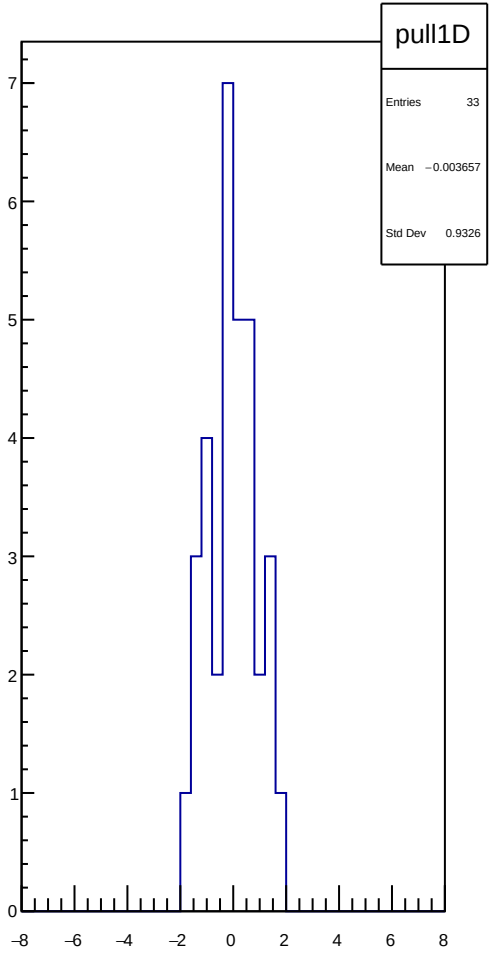

reg_asym_dsr_rms vs run
χ² / ndf 87.7 / 32
p0 138.2 ± 0.1711
142
140
138
136
134
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

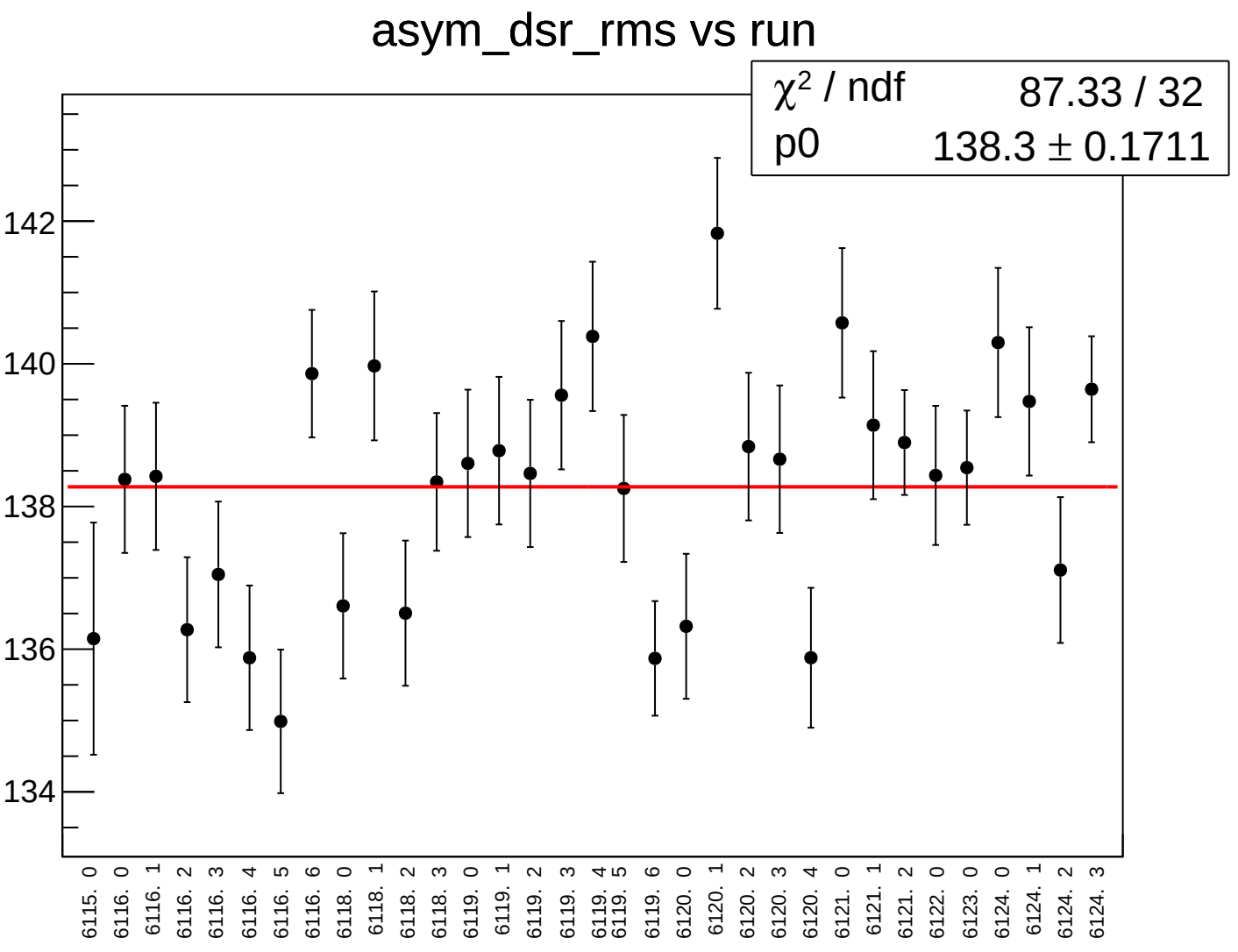

asym_dsr_correction_mean vs run
χ² / ndf 21.38 / 32
p0 −4.697 ± 3.905
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 0.7596
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

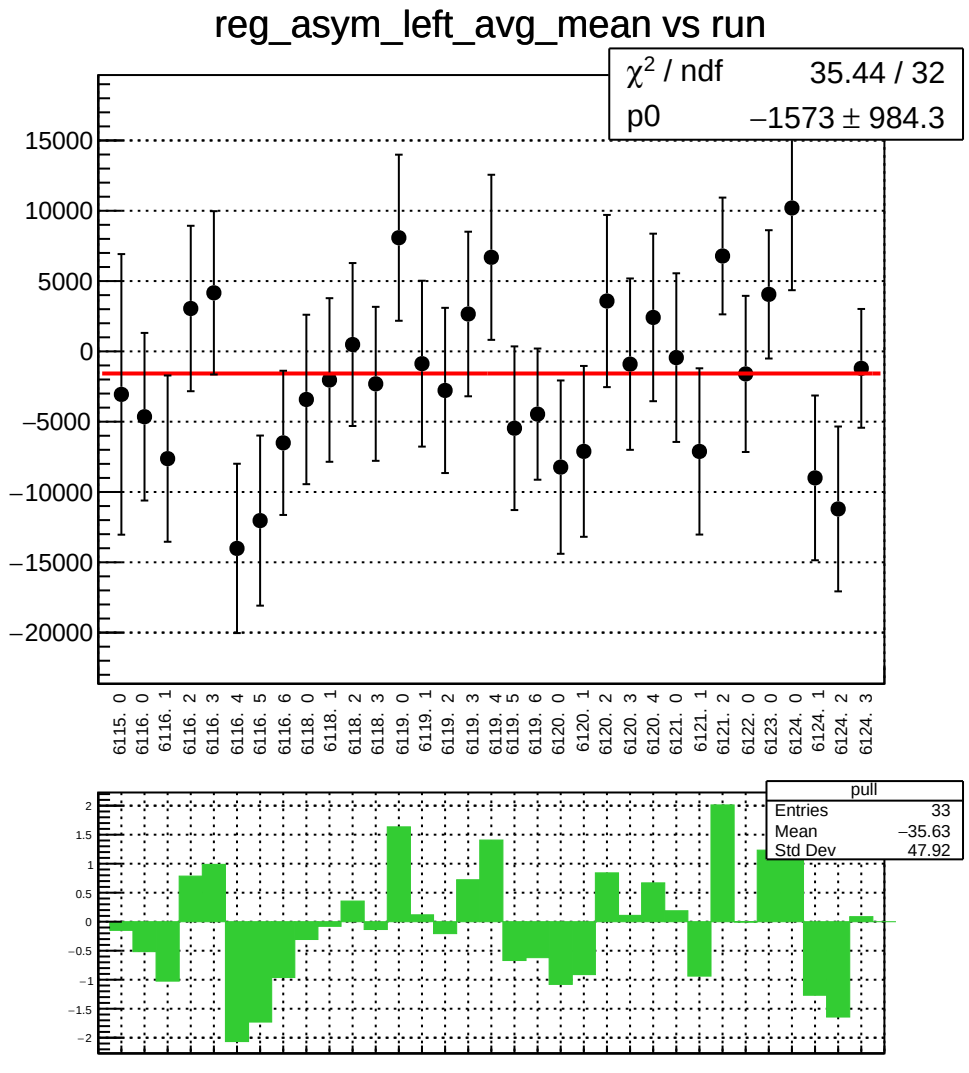

pull1D
Entries 33
Mean −0.05056
Std Dev 0.8033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

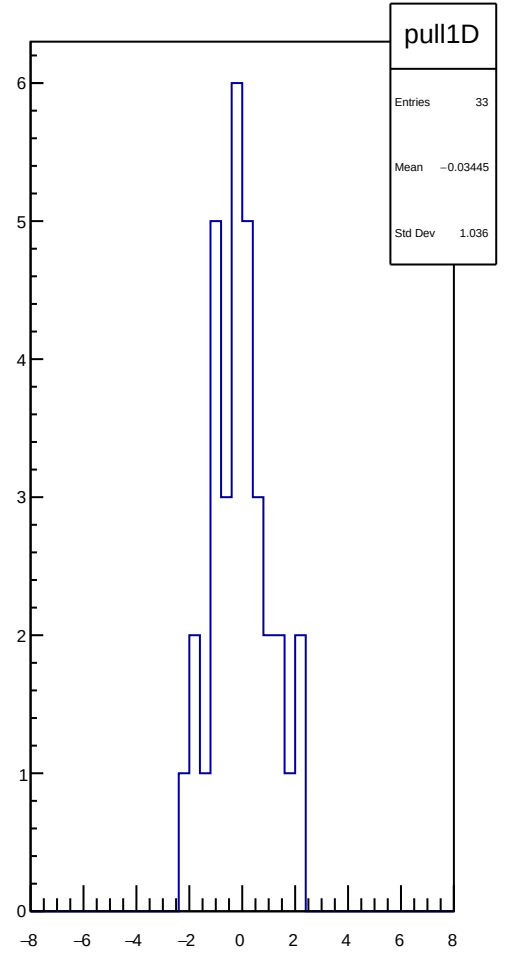

asym_dsr_correction_rms vs run
χ² / ndf 5.735e+04 / 32
p0 2.131 ± 0.002761
6
5
4
3
2
1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

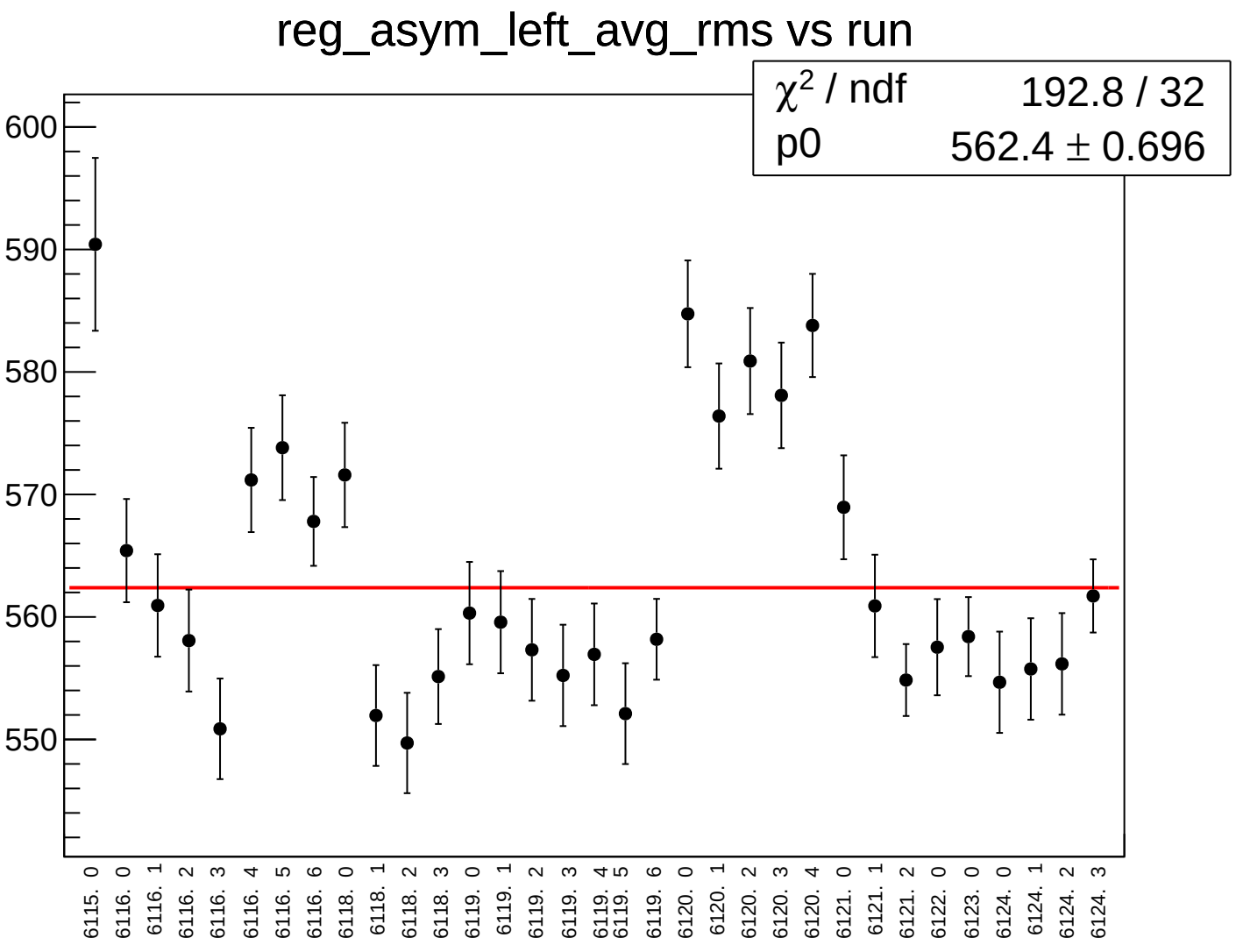

asym_dsr_mean vs run
χ² / ndf 28.7 / 32
p0 402.4 ± 242
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 247.7
Std Dev 228
2
1.5
1
0.5
0
−0.5
−1
−1.5

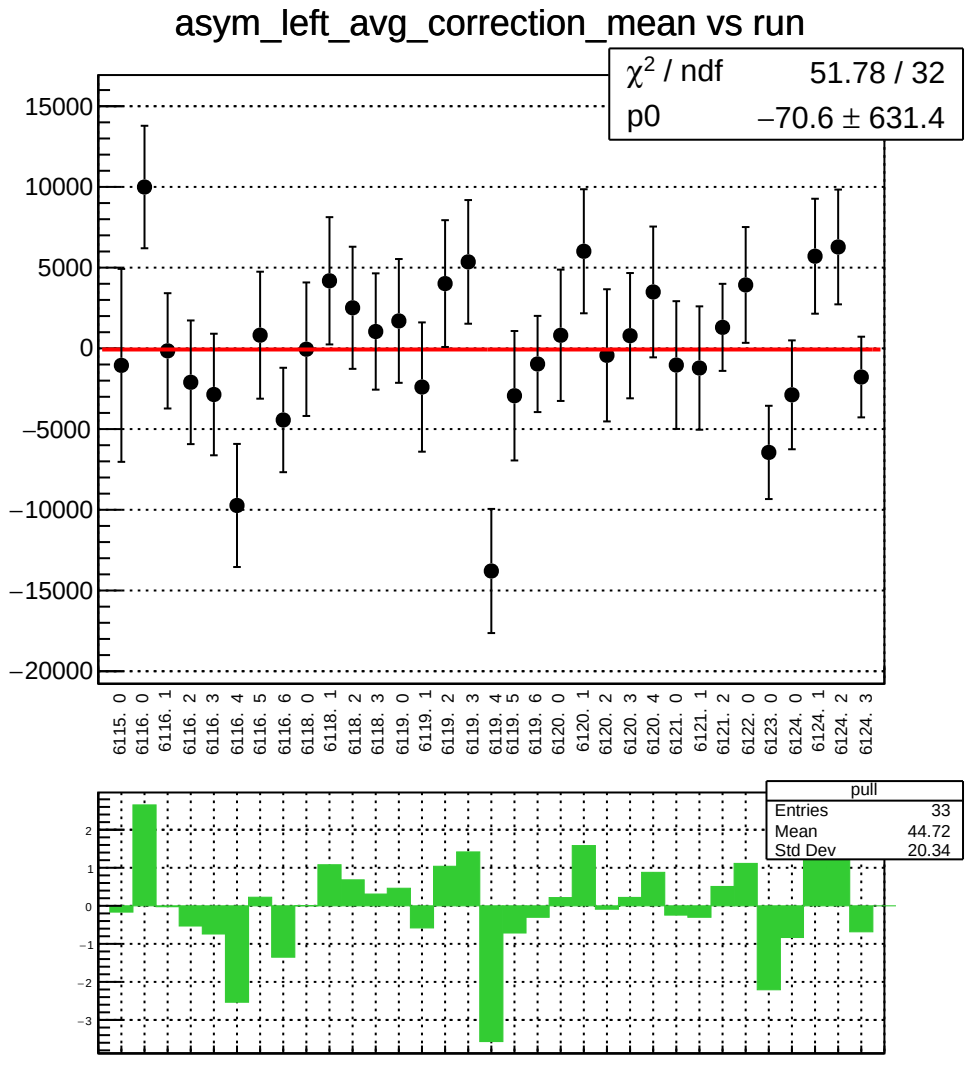

pull1D
Entries 33
Mean −0.003657
Std Dev 0.9326
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

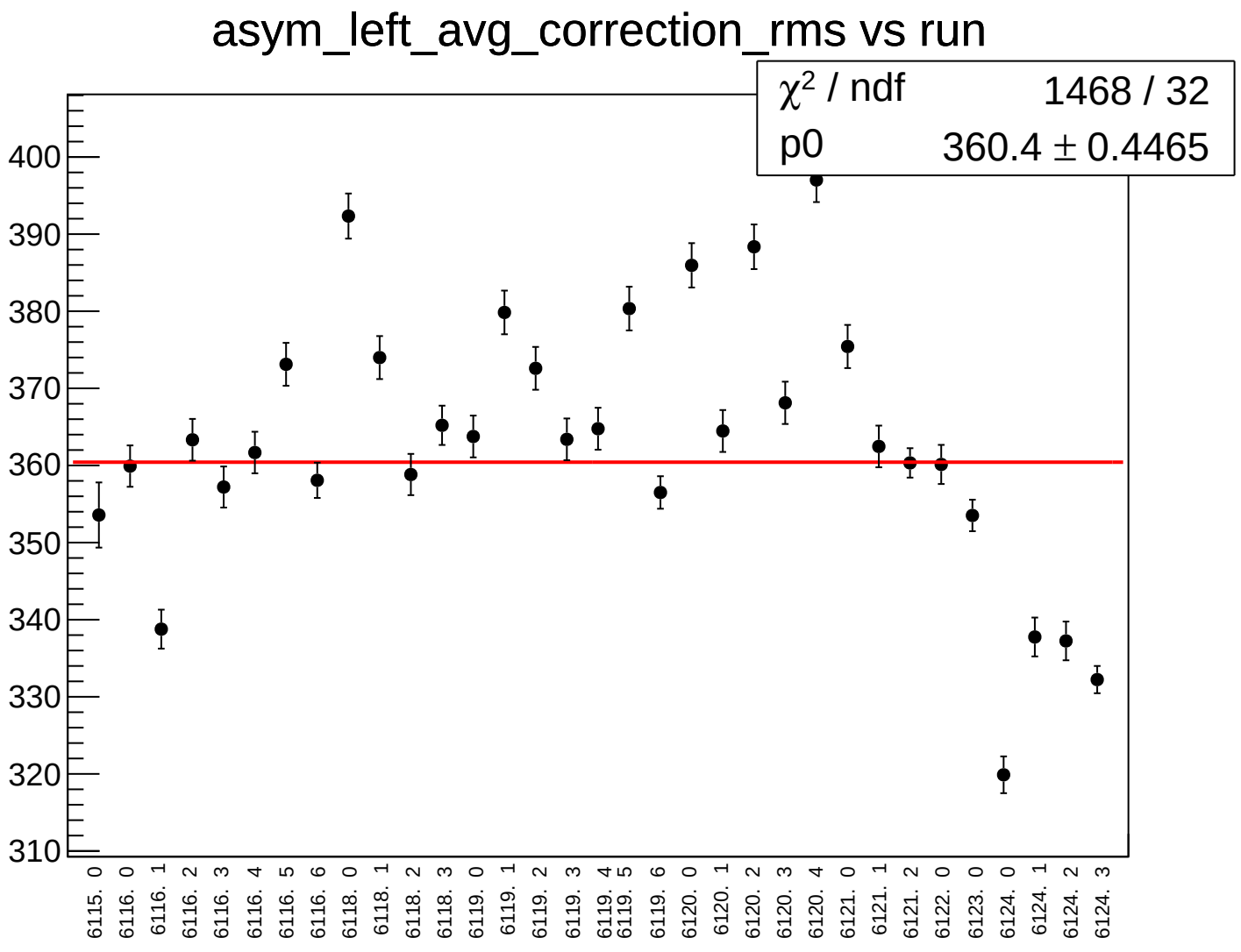

asym_dsr_rms vs run
χ² / ndf 87.33 / 32
p0 138.3 ± 0.1711
142
140
138
136
134
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

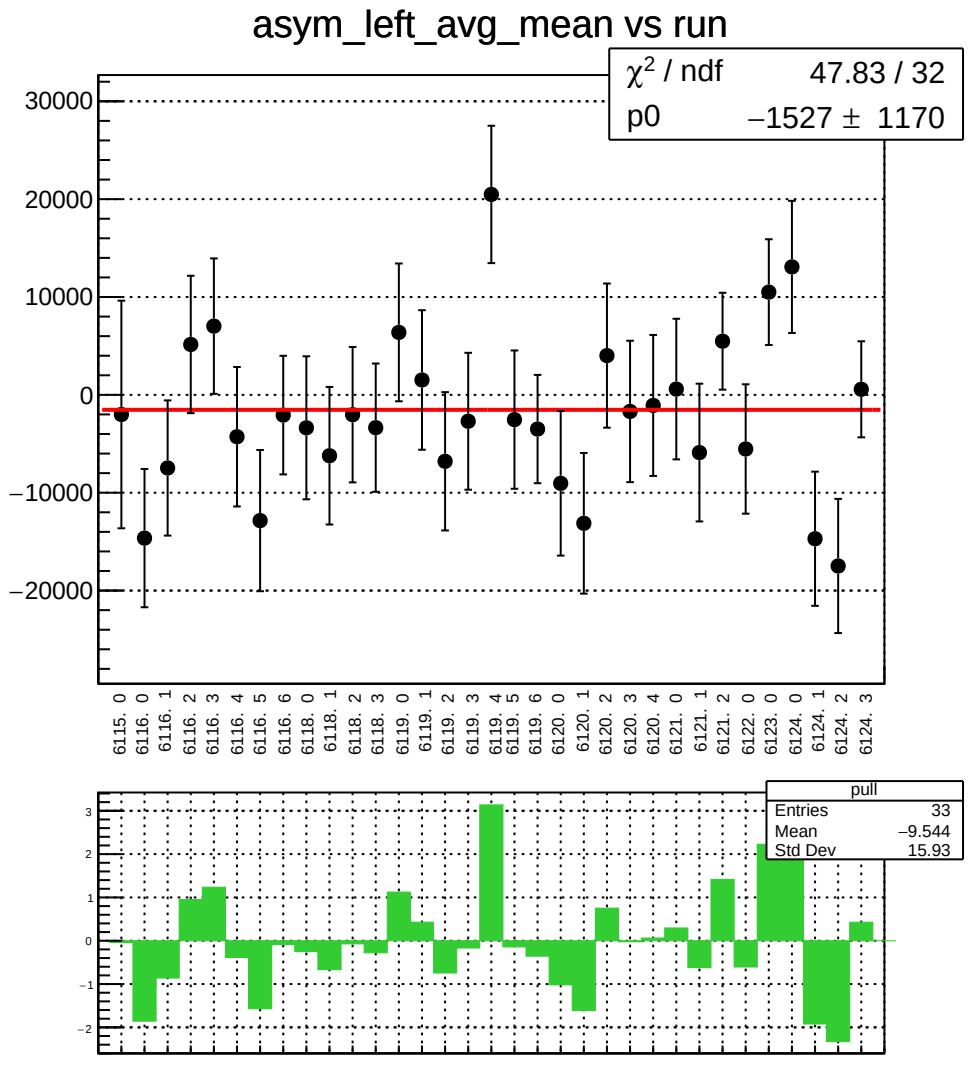

reg_asym_left_avg_mean vs run
χ² / ndf 35.44 / 32
p0 −1573 ± 984.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −35.63
Std Dev 47.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

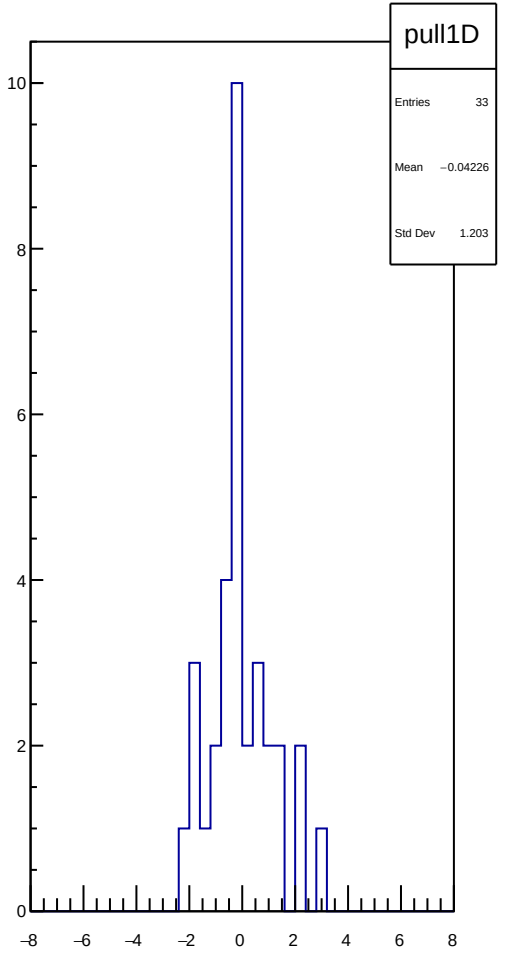

pull1D
Entries 33
Mean −0.03445
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

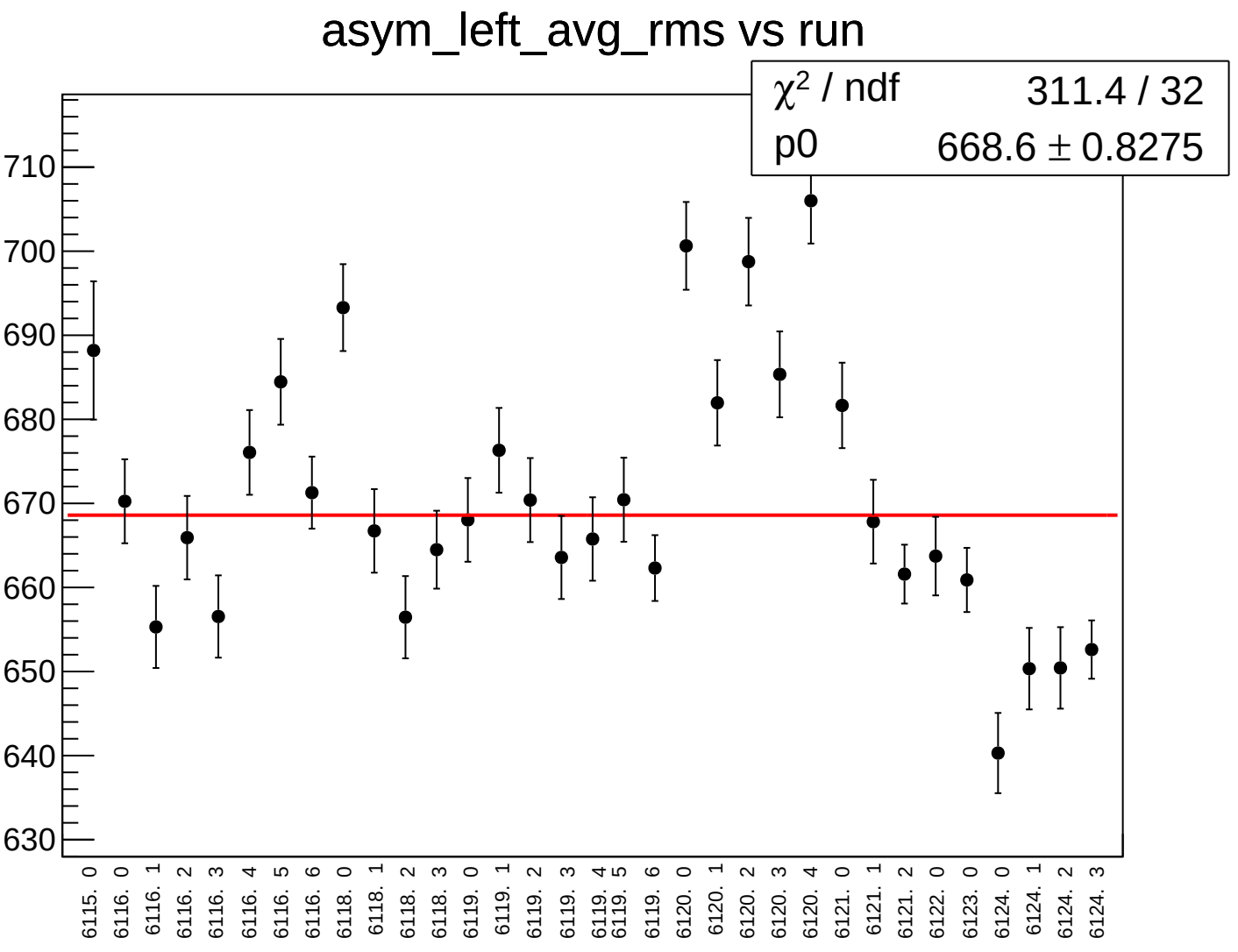

reg_asym_left_avg_rms vs run
χ^2 / ndf 192.8 / 32
p0 562.4 ± 0.696
600
590
580
570
560
550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

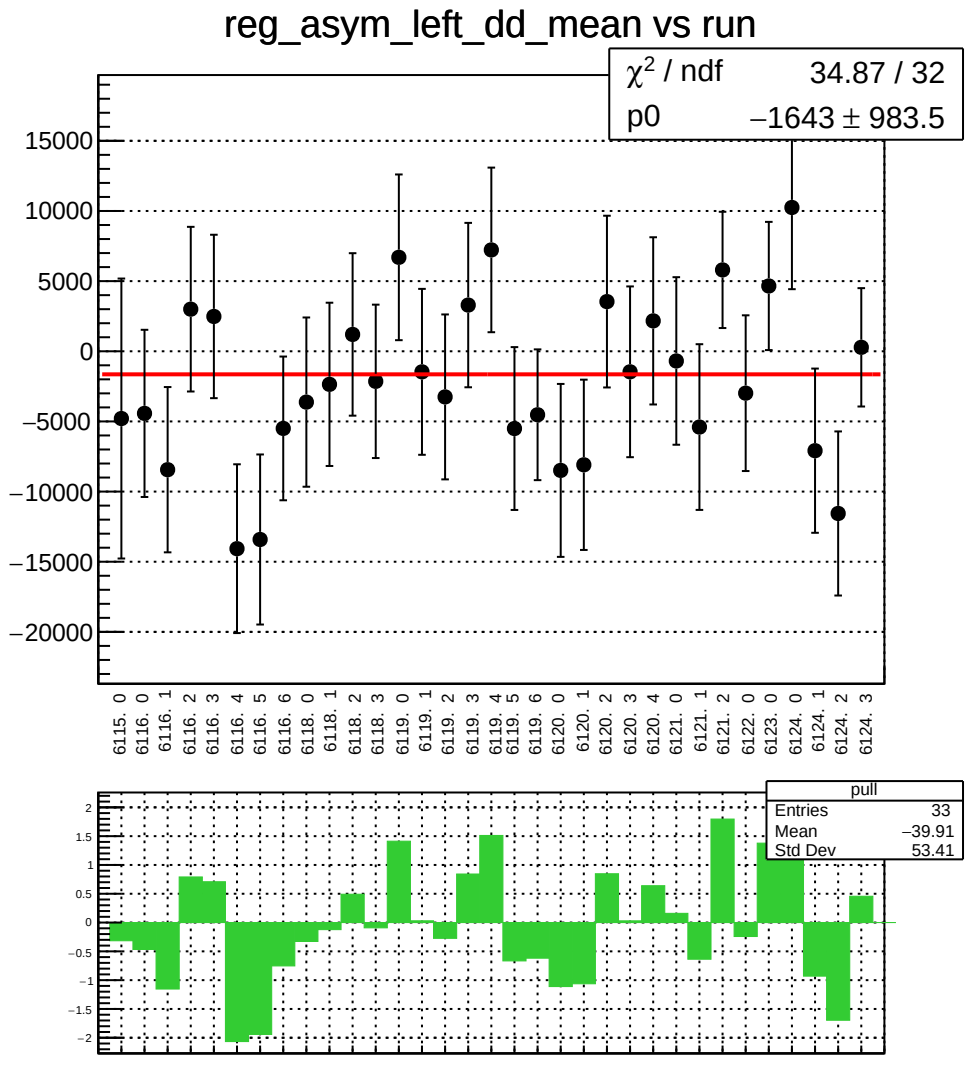

asym_left_avg_correction_mean vs run
χ² / ndf 51.78 / 32
p0 −70.6 ± 631.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 44.72
Std Dev 20.34
pull1D
Entries 33
Mean 0.02855
Std Dev 1.252

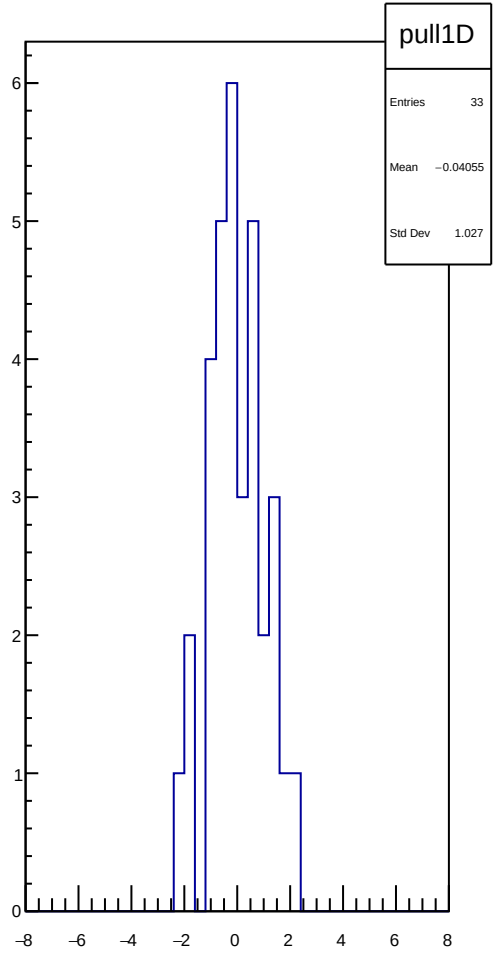

asym_left_avg_correction_rms vs run
χ² / ndf 1468 / 32
p0 360.4 ± 0.4465
400
390
380
370
360
350
340
330
320
310
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

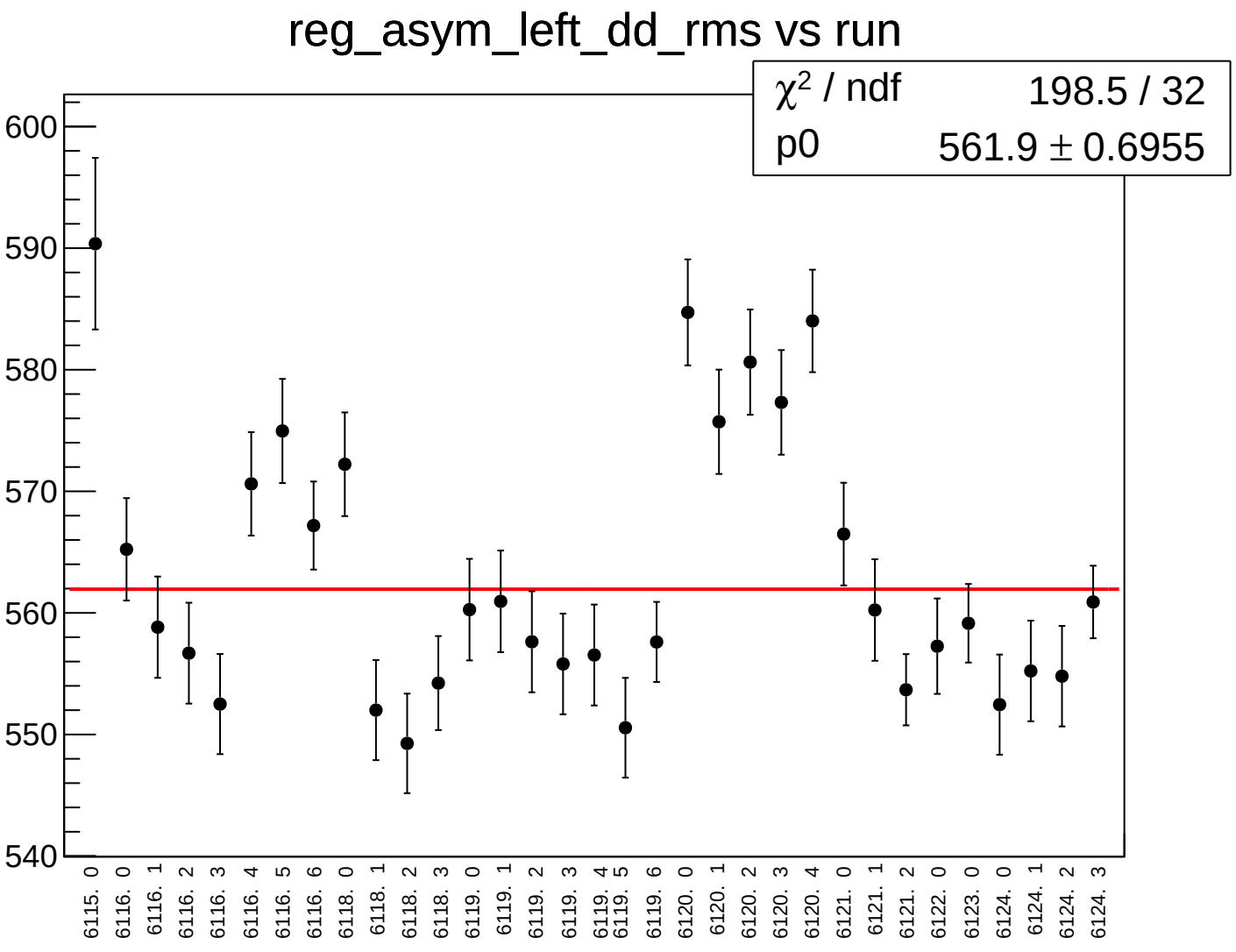

asym_left_avg_mean vs run
χ² / ndf 47.83 / 32
p0 −1527 ± 1170
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −9.544
Std Dev 15.93
3
2
1
0
−1
−2

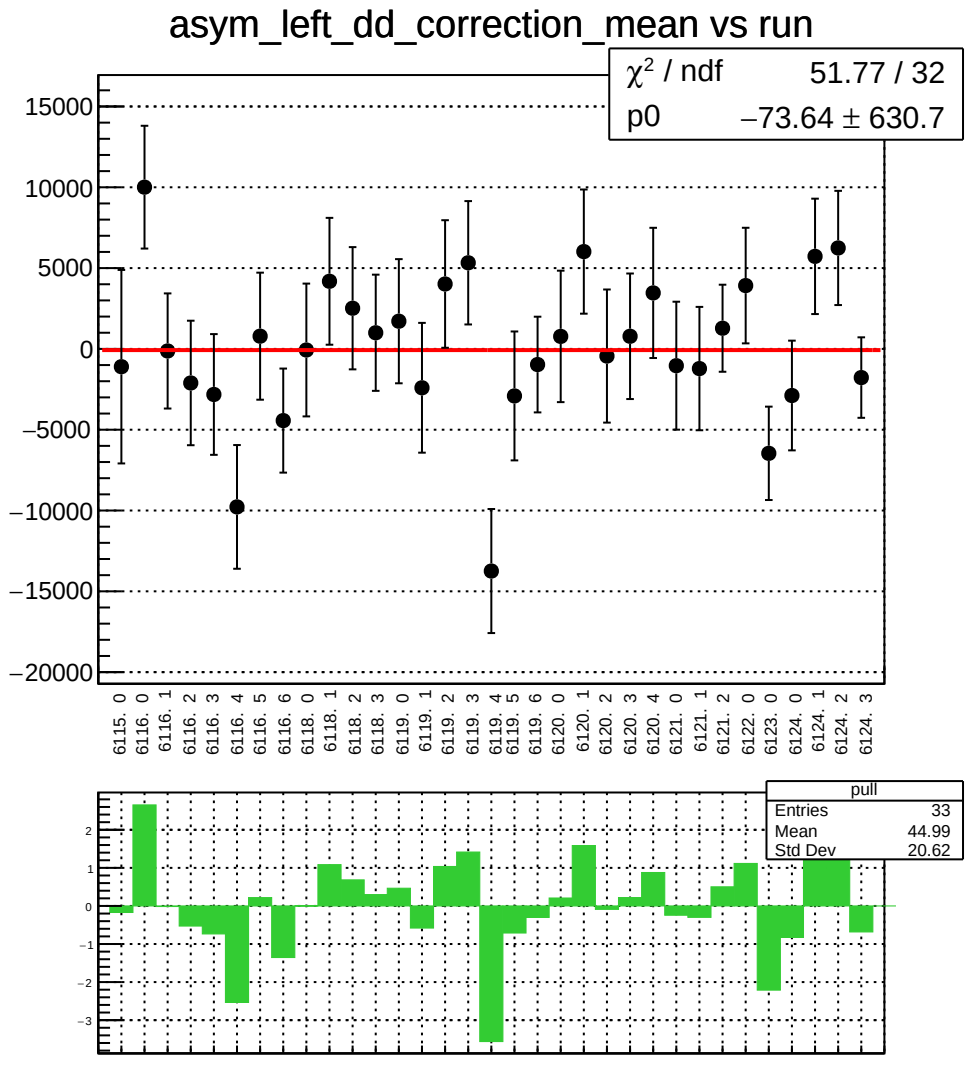

pull1D
Entries 33
Mean −0.04226
Std Dev 1.203
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

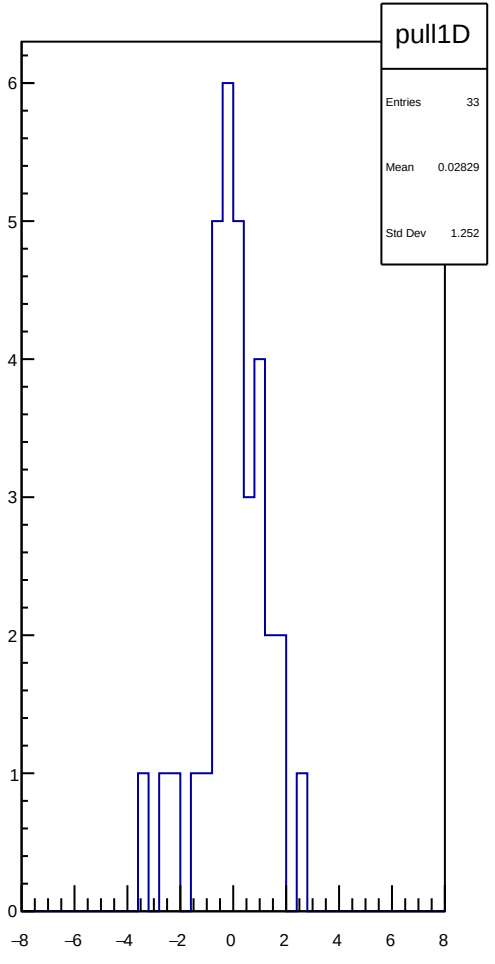

asym_left_avg_rms vs run
χ² / ndf 311.4 / 32
p0 668.6 ± 0.8275
710
700
690
680
670
660
650
640
630
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

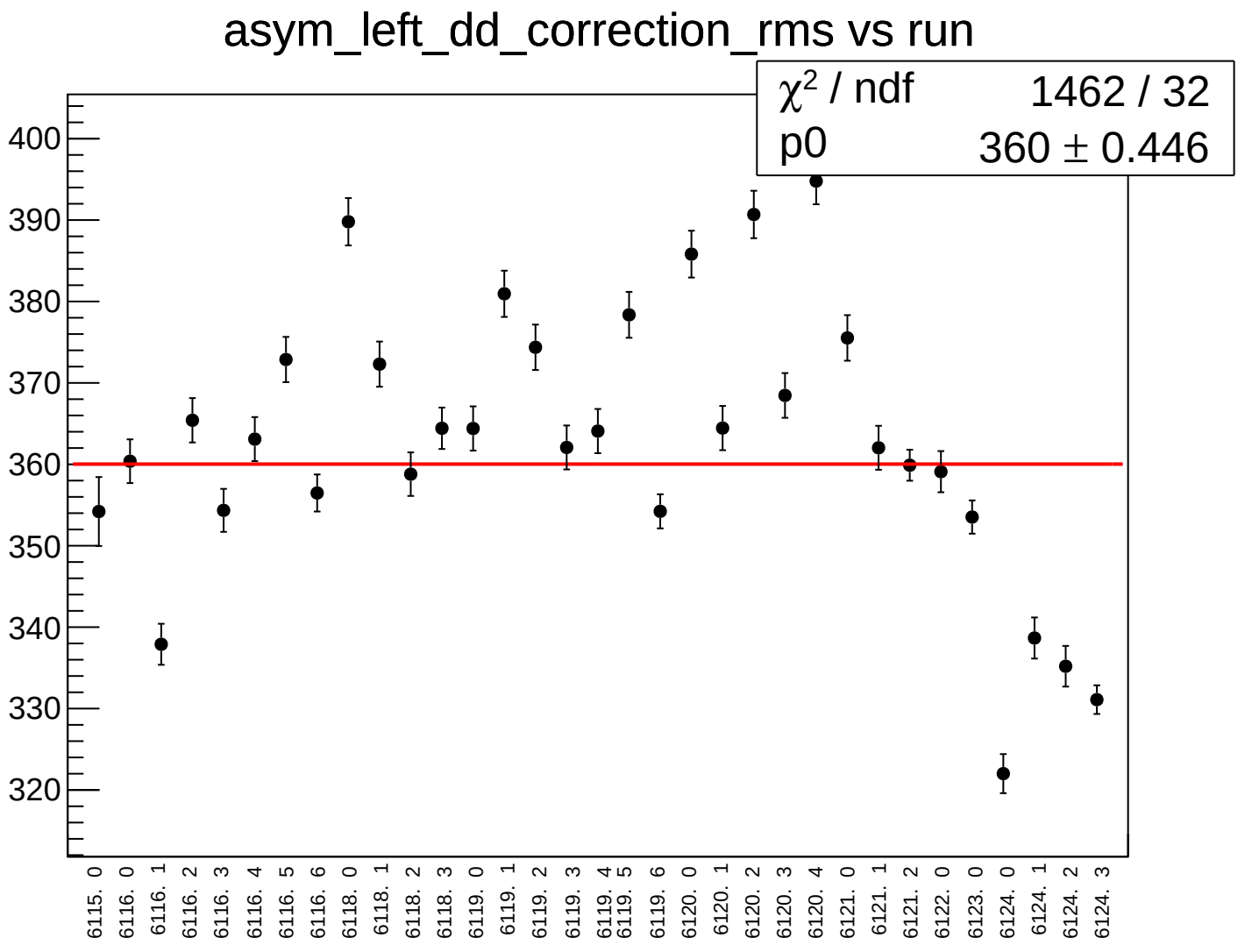

reg_asym_left_dd_mean vs run
χ² / ndf 34.87 / 32
p0 −1643 ± 983.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −39.91
Std Dev 53.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

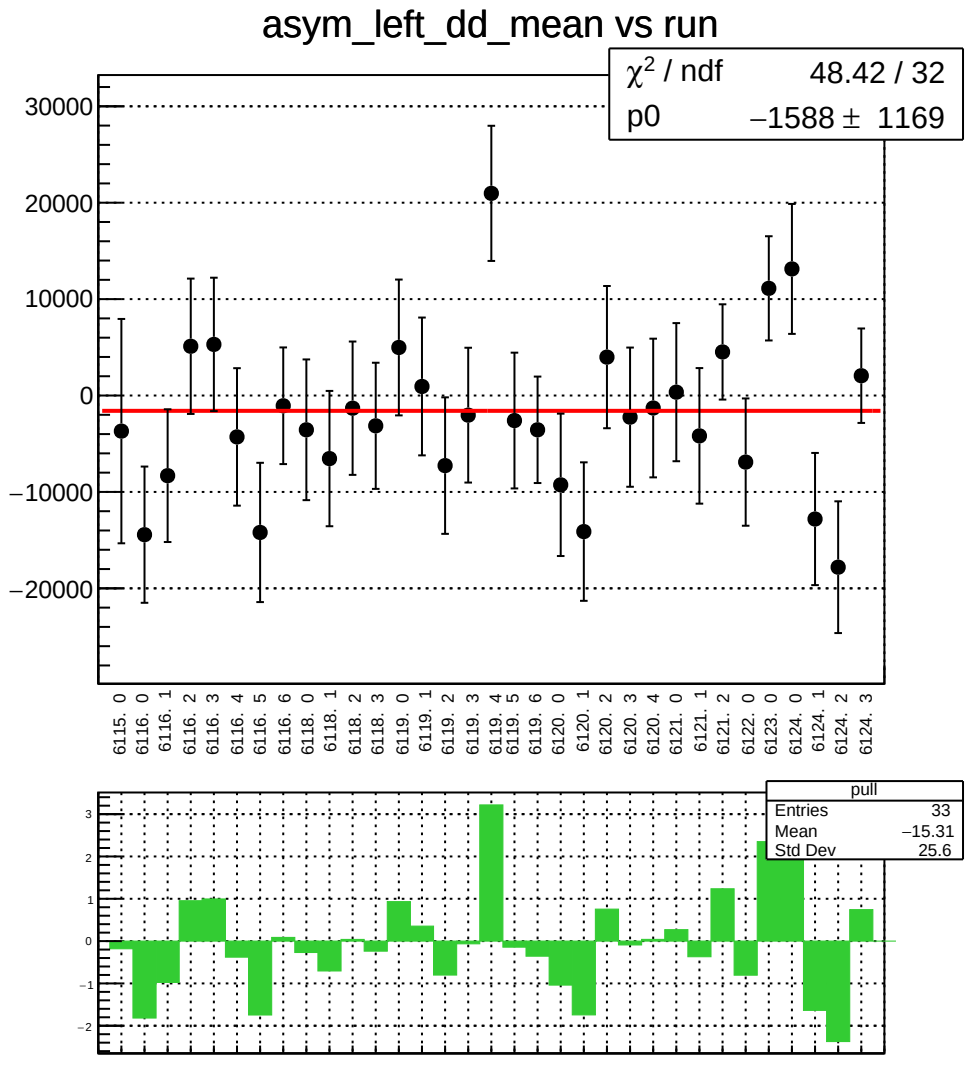

pull1D
Entries 33
Mean −0.04055
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

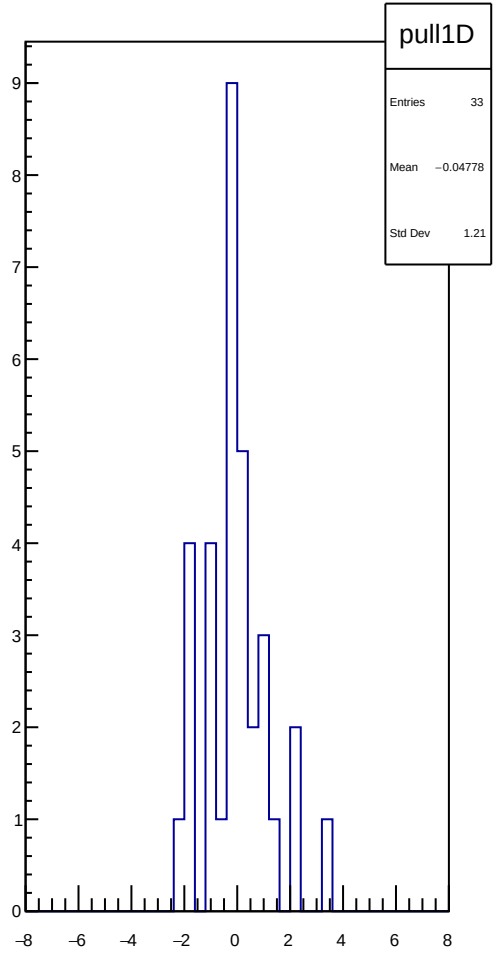

reg_asym_left_dd_rms vs run
χ² / ndf 198.5 / 32
p0 561.9 ± 0.6955
600
590
580
570
560
550
540
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

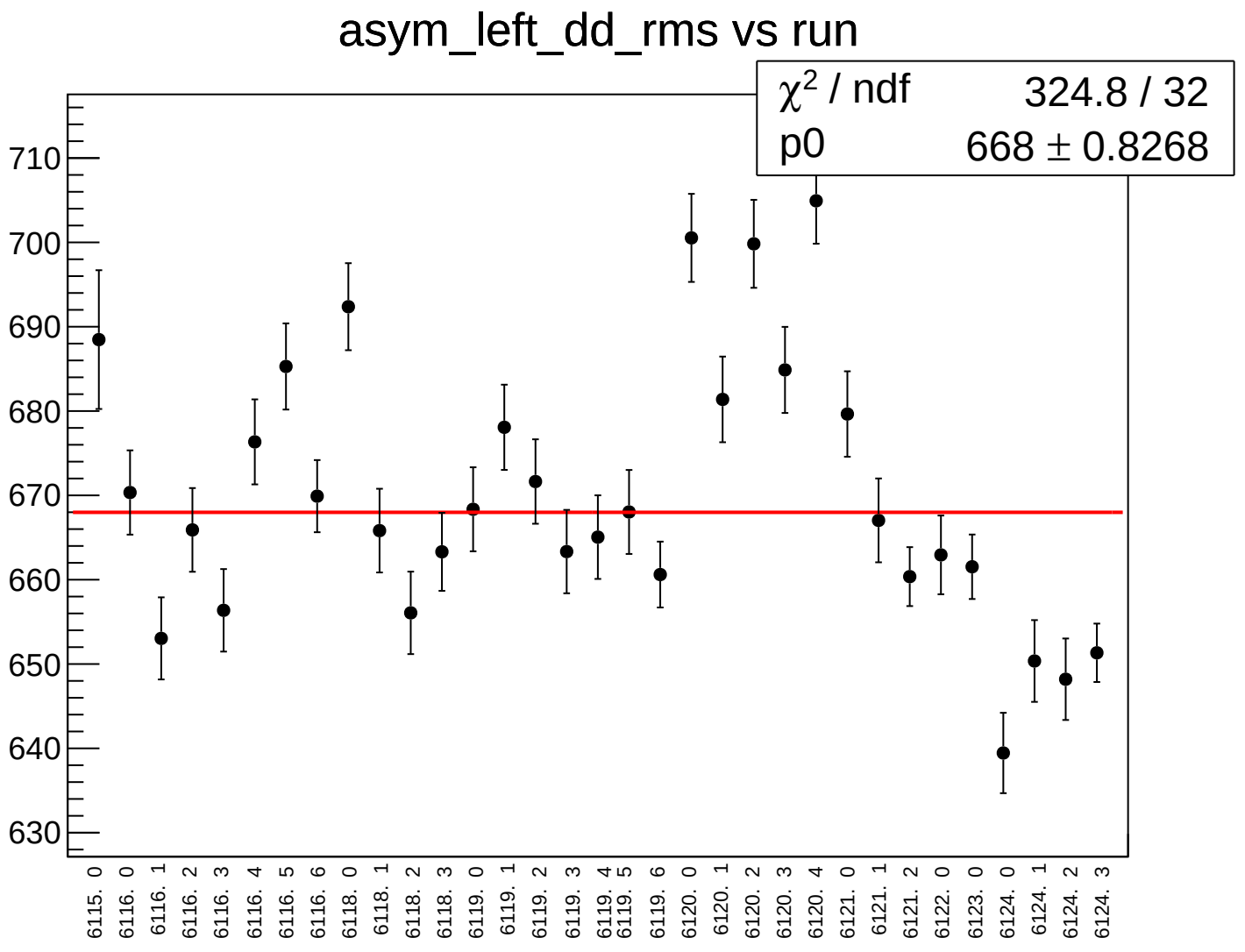

asym_left_dd_correction_mean vs run
χ² / ndf 51.77 / 32
p0 −73.64 ± 630.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 44.99
Std Dev 20.62
2
1
0
−1
−2
−3

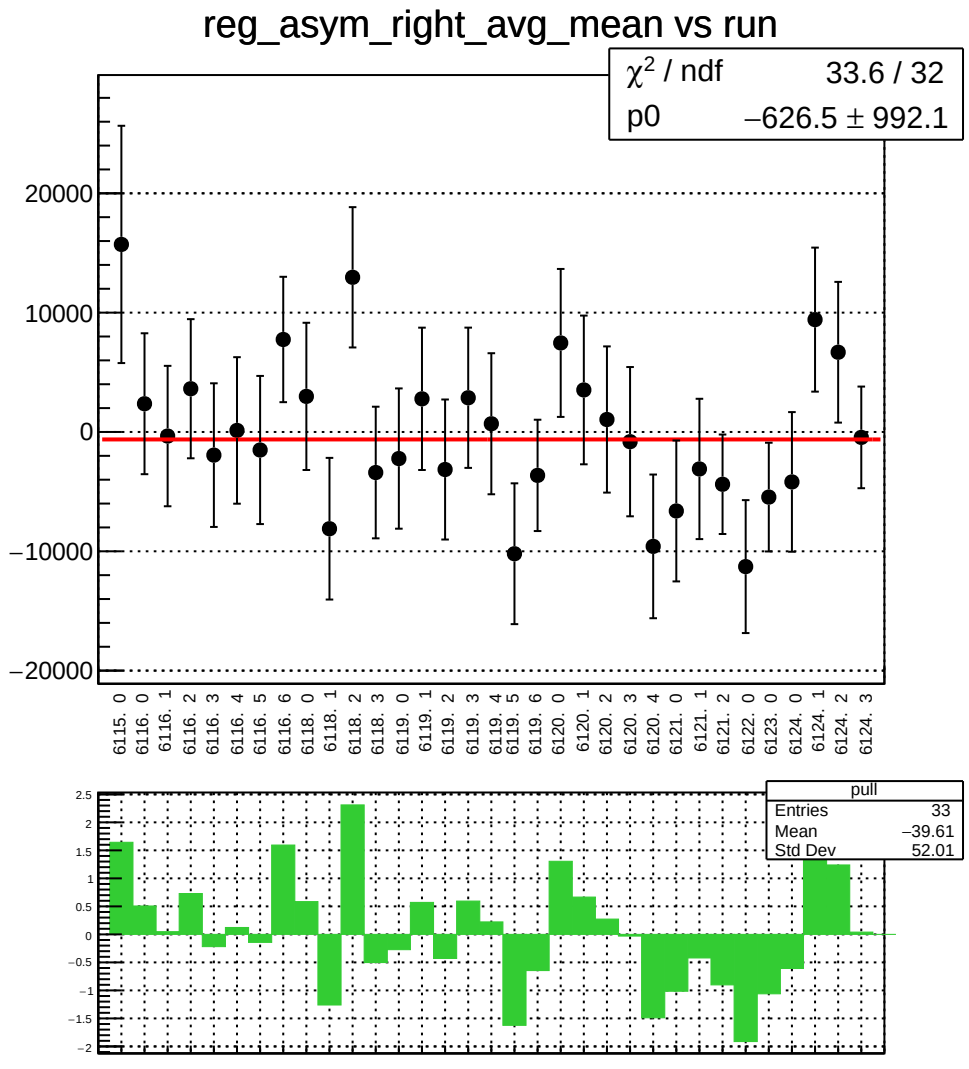

pull1D
Entries 33
Mean 0.02829
Std Dev 1.252
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

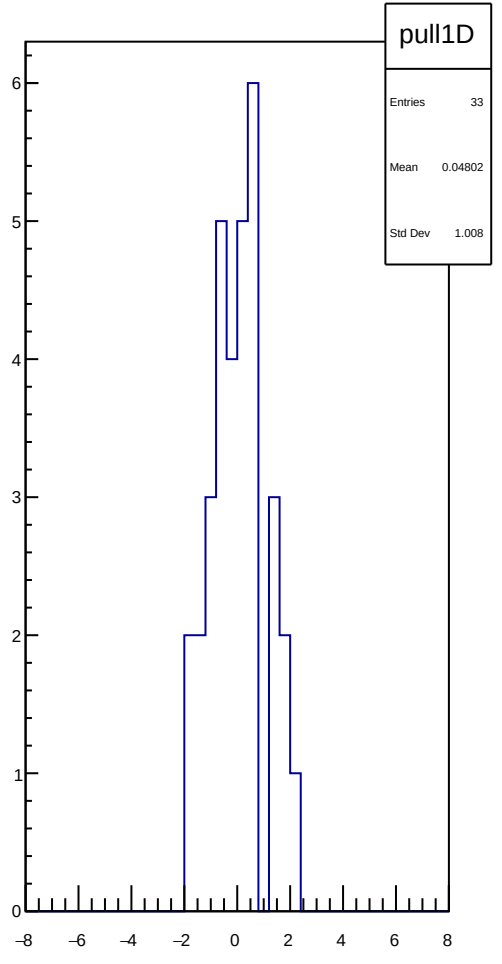

asym_left_dd_correction_rms vs run
χ² / ndf 1462 / 32
p0 360 ± 0.446
400
390
380
370
360
350
340
330
320
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

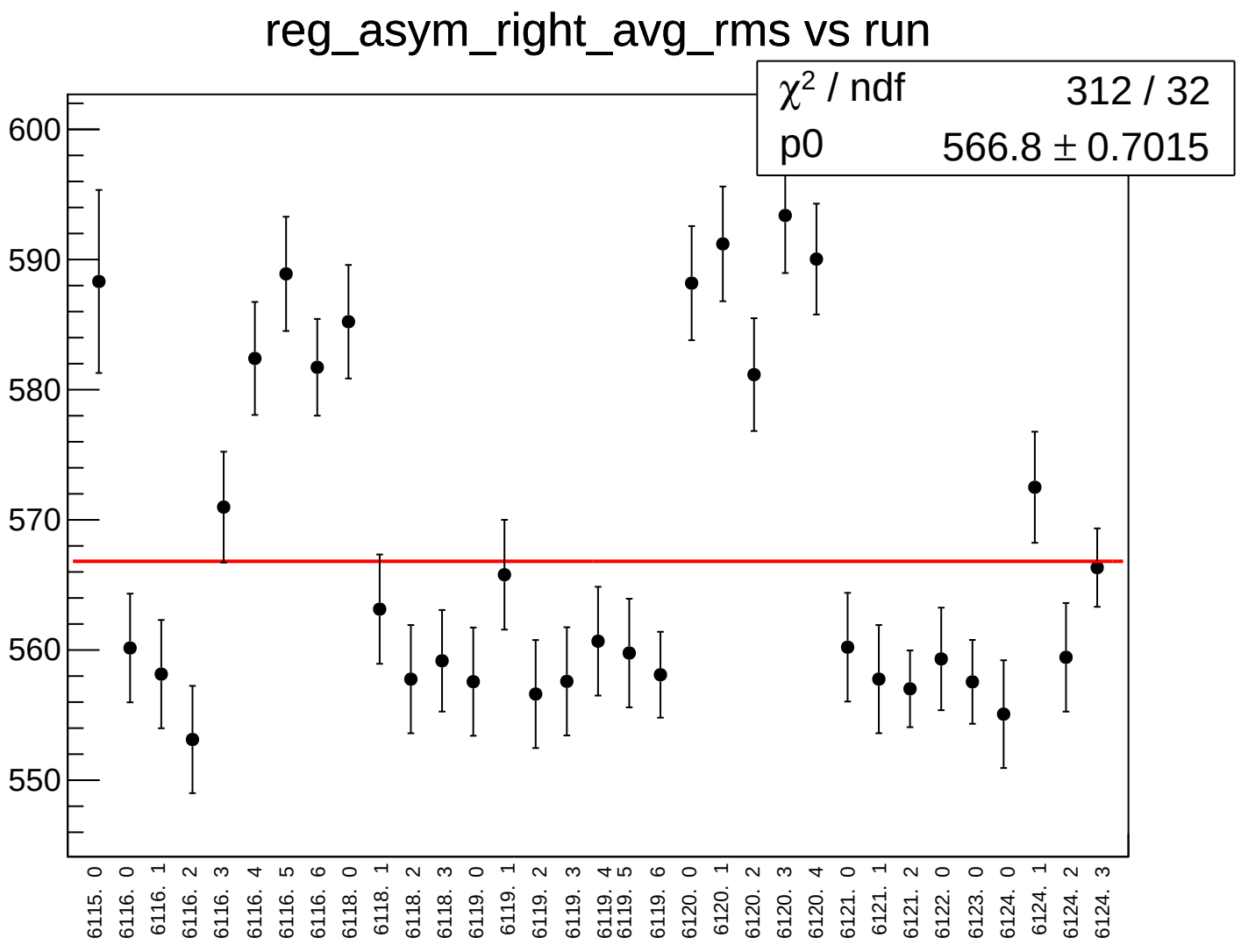

asym_left_dd_mean vs run
χ² / ndf 48.42 / 32
p0 −1588 ± 1169
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −15.31
Std Dev 25.6
3
2
1
0
−1
−2

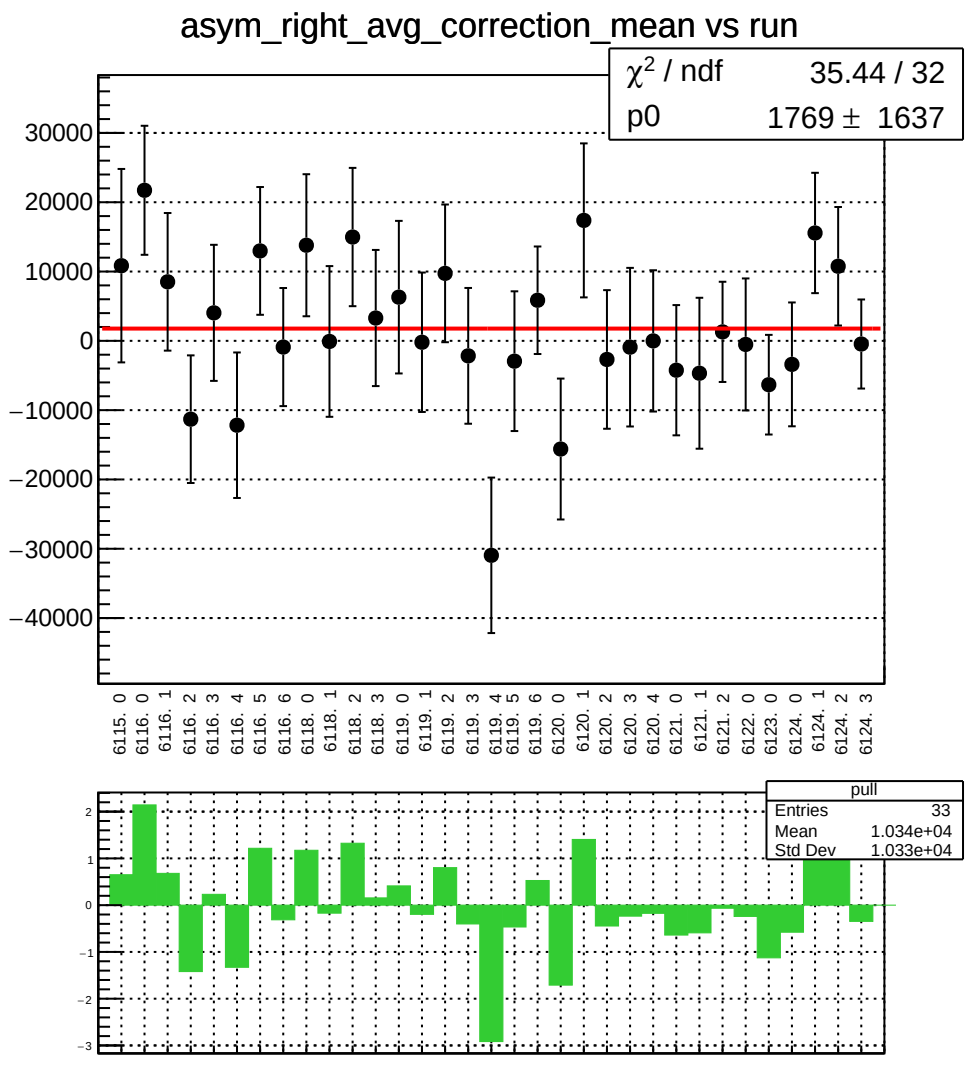

pull1D
Entries 33
Mean −0.04778
Std Dev 1.21
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

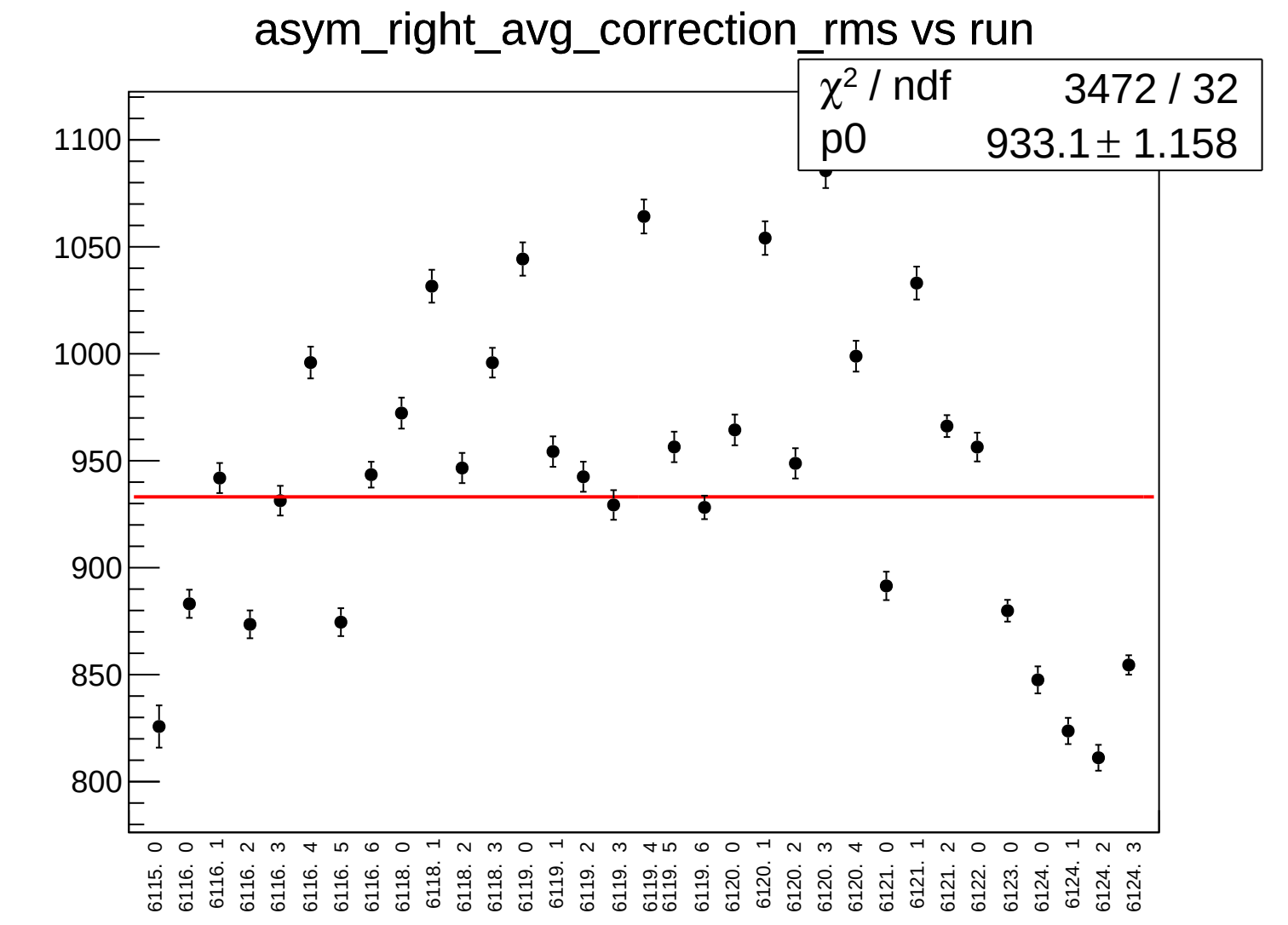

asym_left_dd_rms vs run
χ² / ndf 324.8 / 32
p0 668 ± 0.8268
710
700
690
680
670
660
650
640
630
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

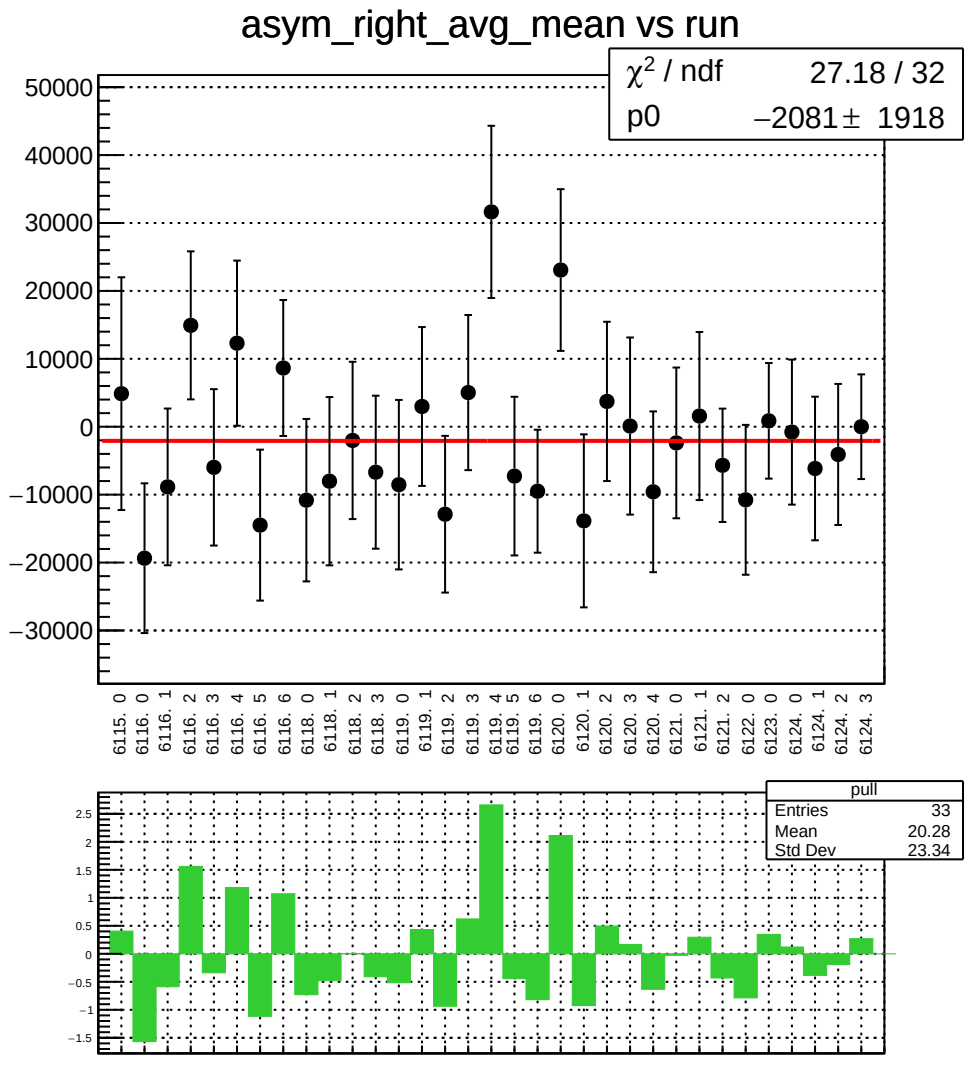

reg_asym_right_avg_mean vs run
χ² / ndf 33.6 / 32
p0 −626.5 ± 992.1
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −39.61
Std Dev 52.01
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

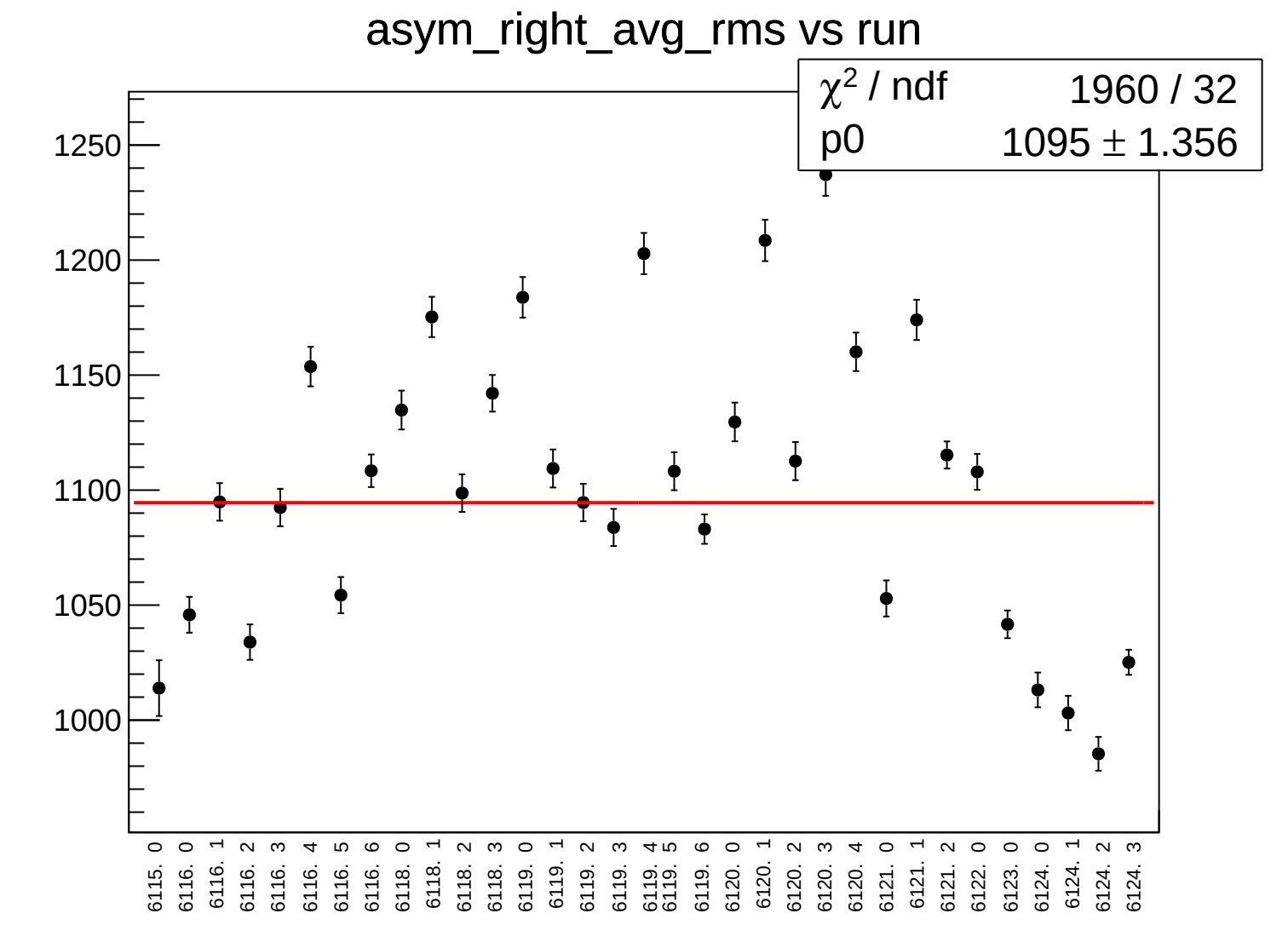

pull1D
Entries 33
Mean 0.04802
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

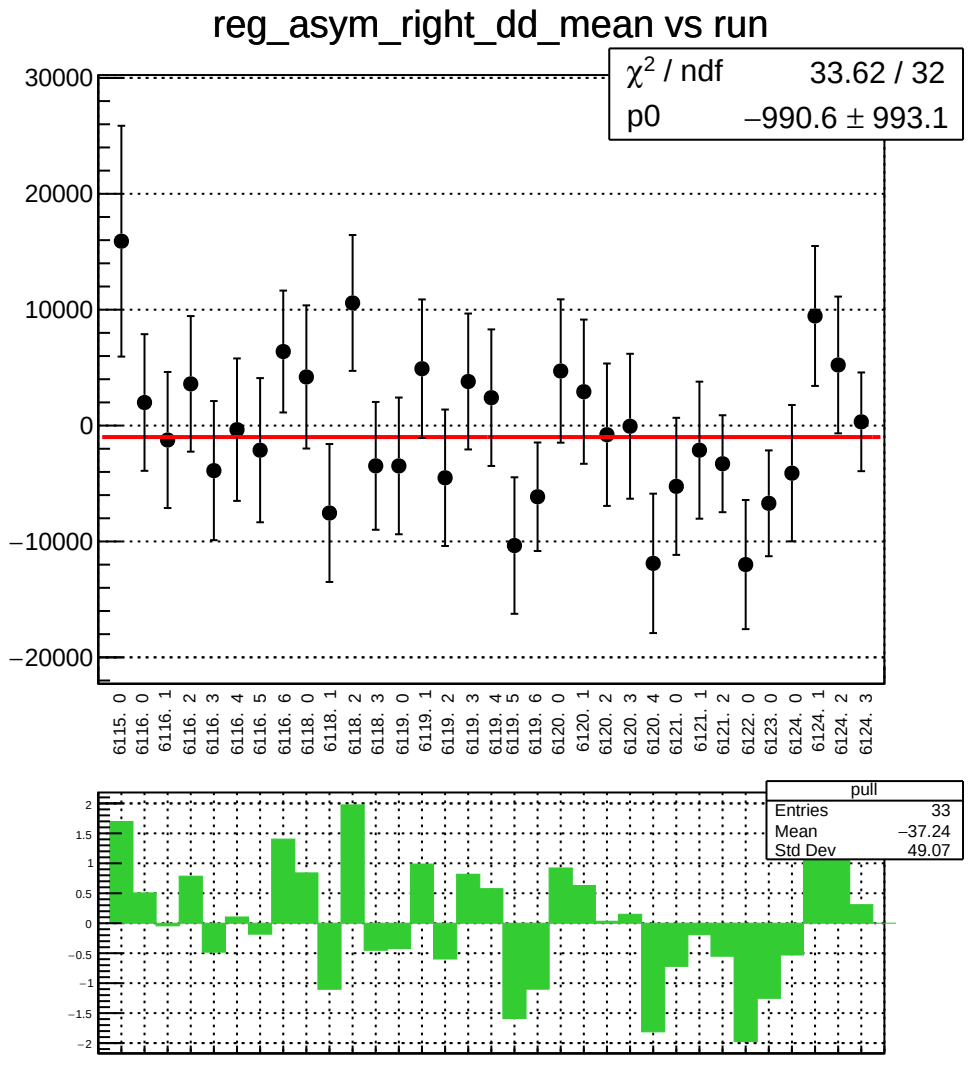

reg_asym_right_avg_rms vs run
χ^2 / ndf 312 / 32
p0 566.8 ± 0.7015
600
590
580
570
560
550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

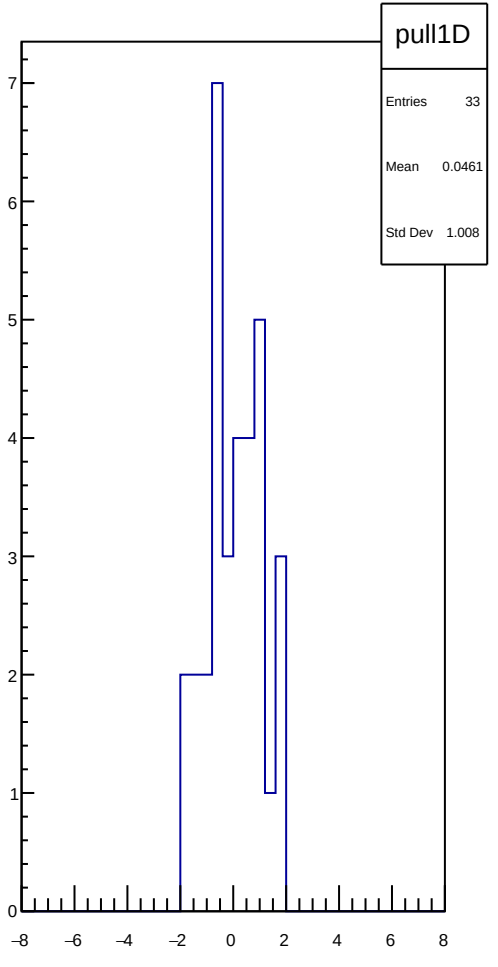

asym_right_avg_correction_mean vs run
χ² / ndf 35.44 / 32
p0 1769 ± 1637
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1.034e+04
Std Dev 1.033e+04
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.0001655
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

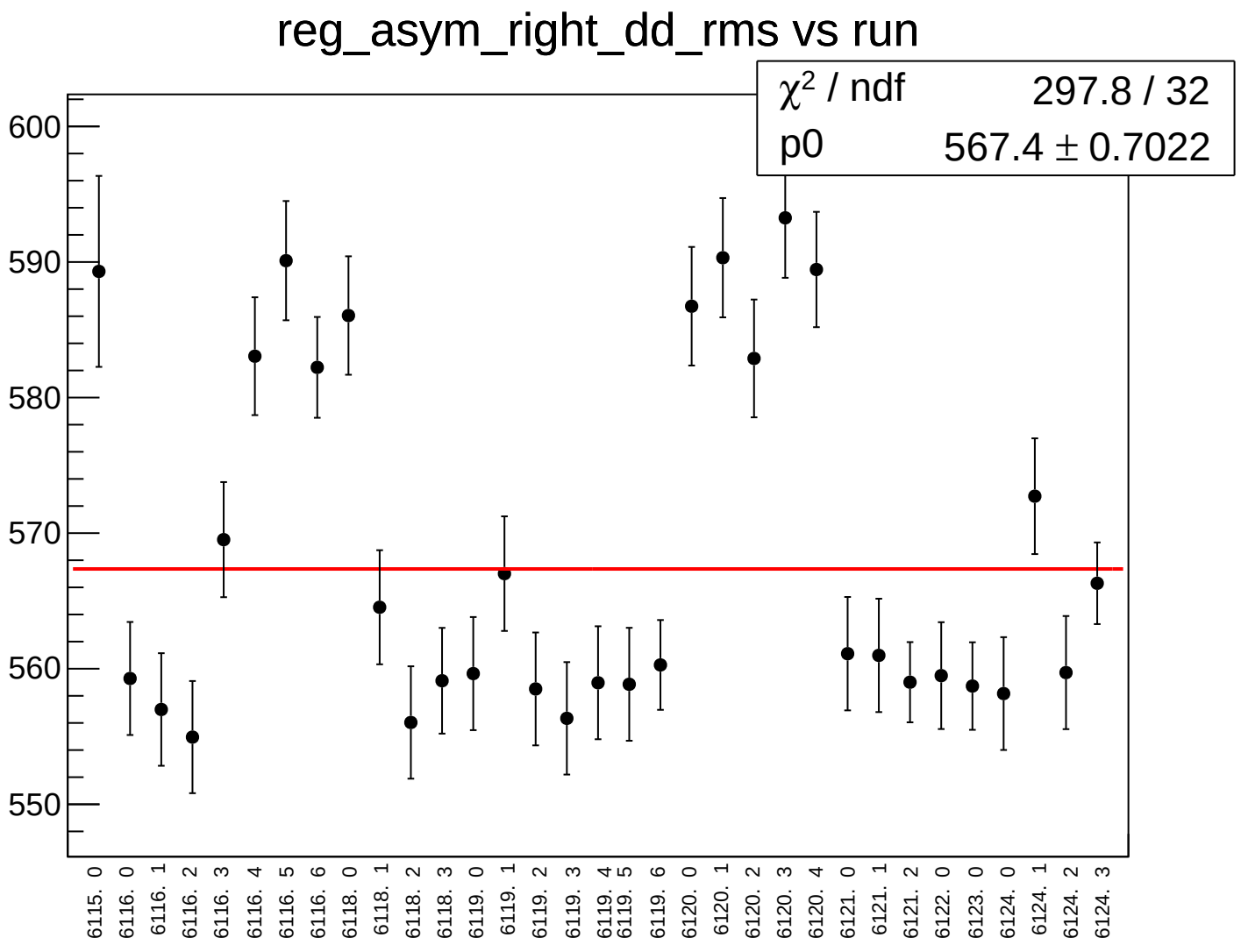

asym_right_avg_correction_rms vs run
χ² / ndf 3472 / 32
p0 933.1 ± 1.158
1100
1050
1000
950
900
850
800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

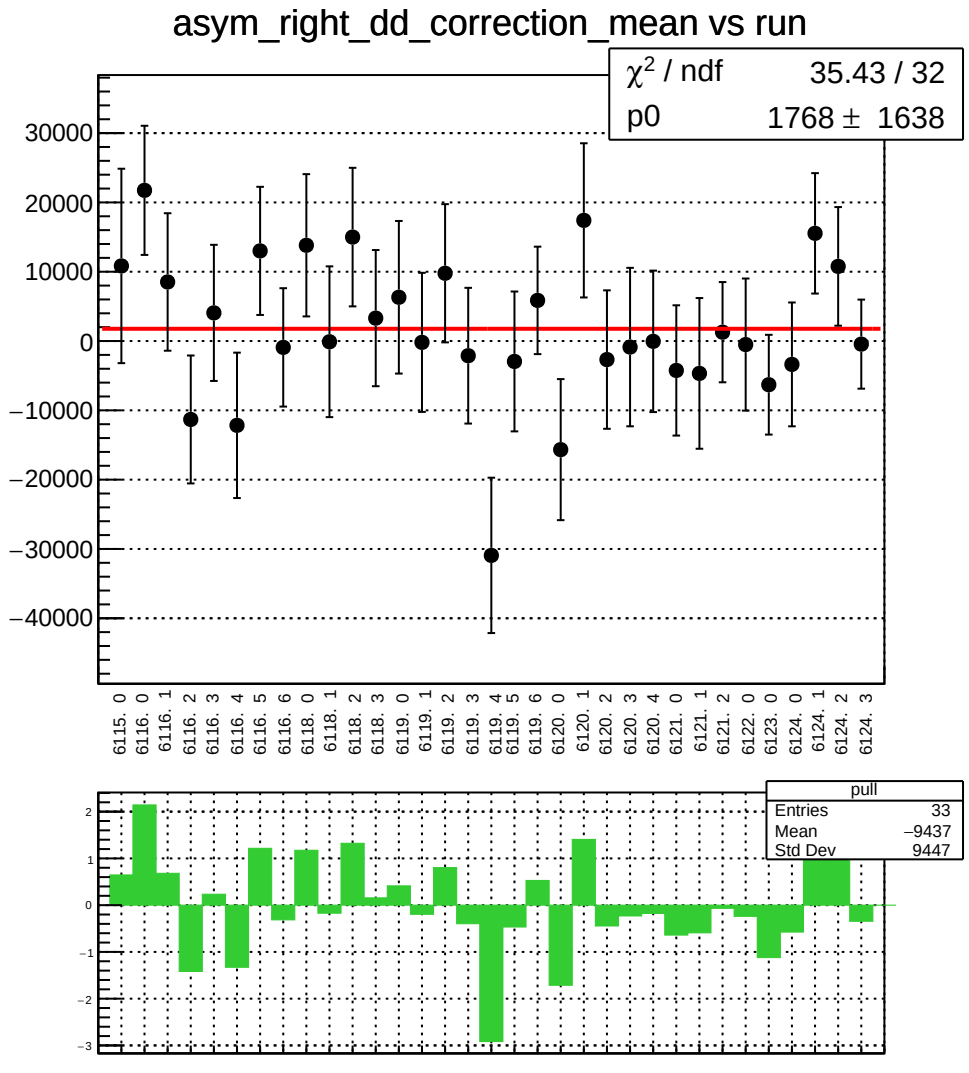

asym_right_avg_mean vs run
χ² / ndf 27.18 / 32
p0 −2081 ± 1918
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 20.28
Std Dev 23.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01289
Std Dev 0.9074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

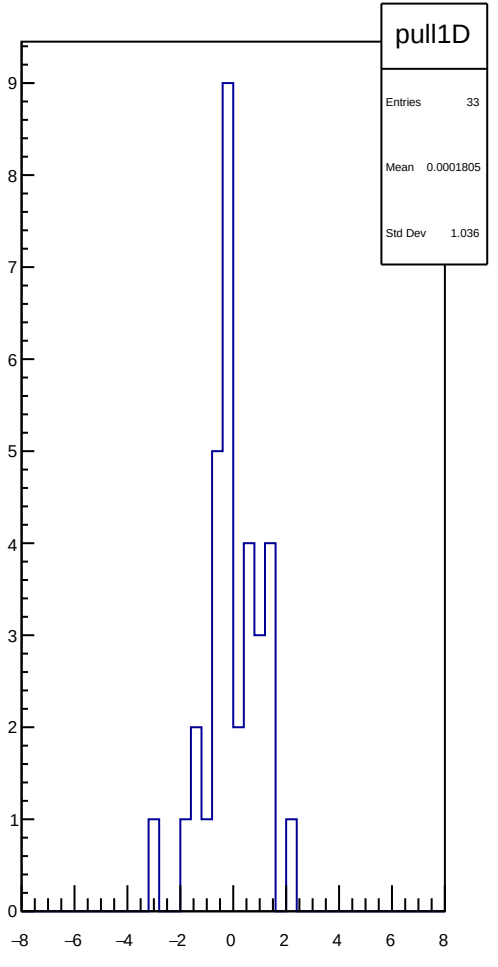

asym_right_avg_rms vs run
χ^2 / ndf 1960 / 32
p0 1095 ± 1.356
1250
1200
1150
1100
1050
1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

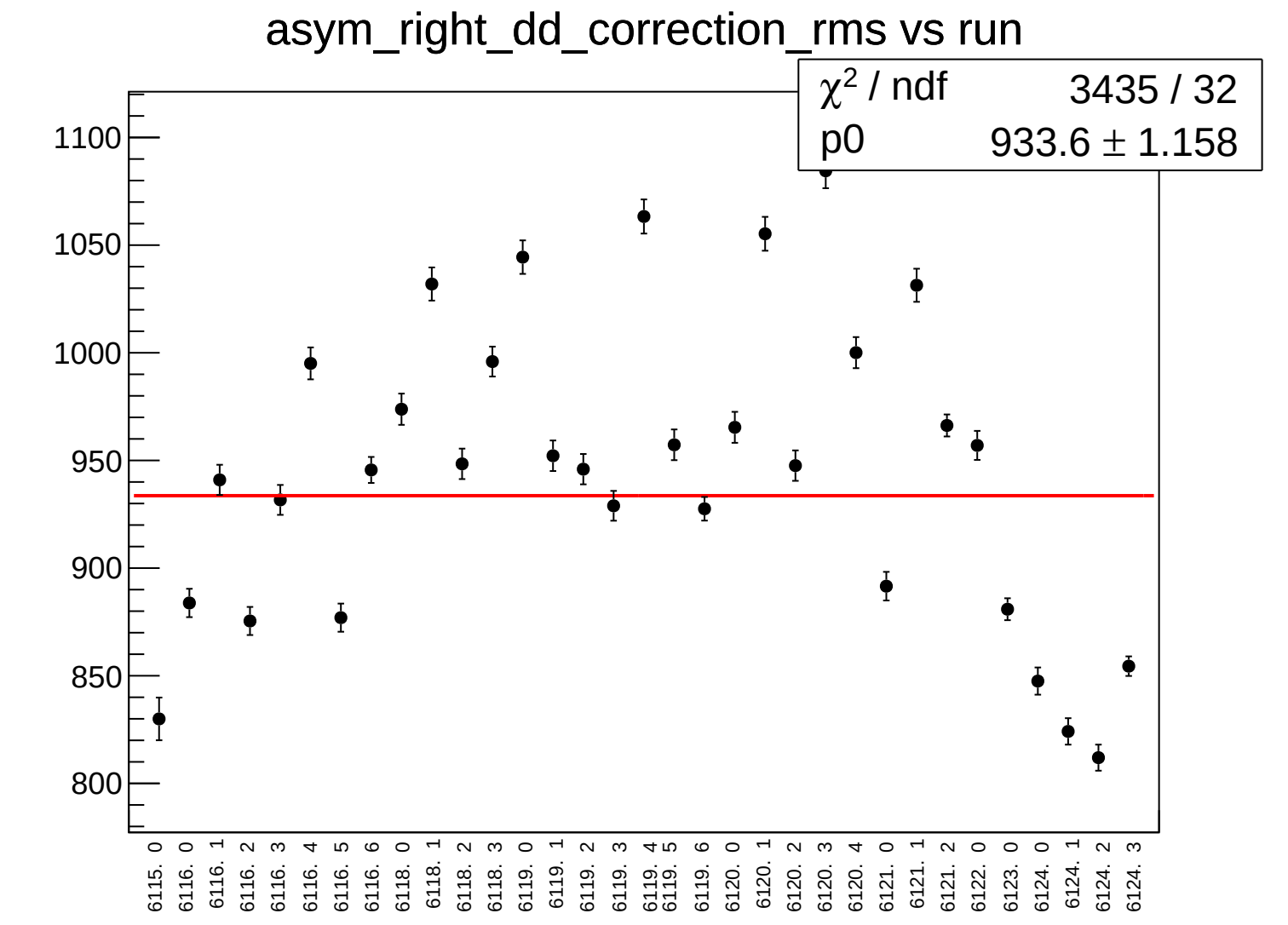

reg_asym_right_dd_mean vs run
χ² / ndf 33.62 / 32
p0 −990.6 ± 993.1
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −37.24
Std Dev 49.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

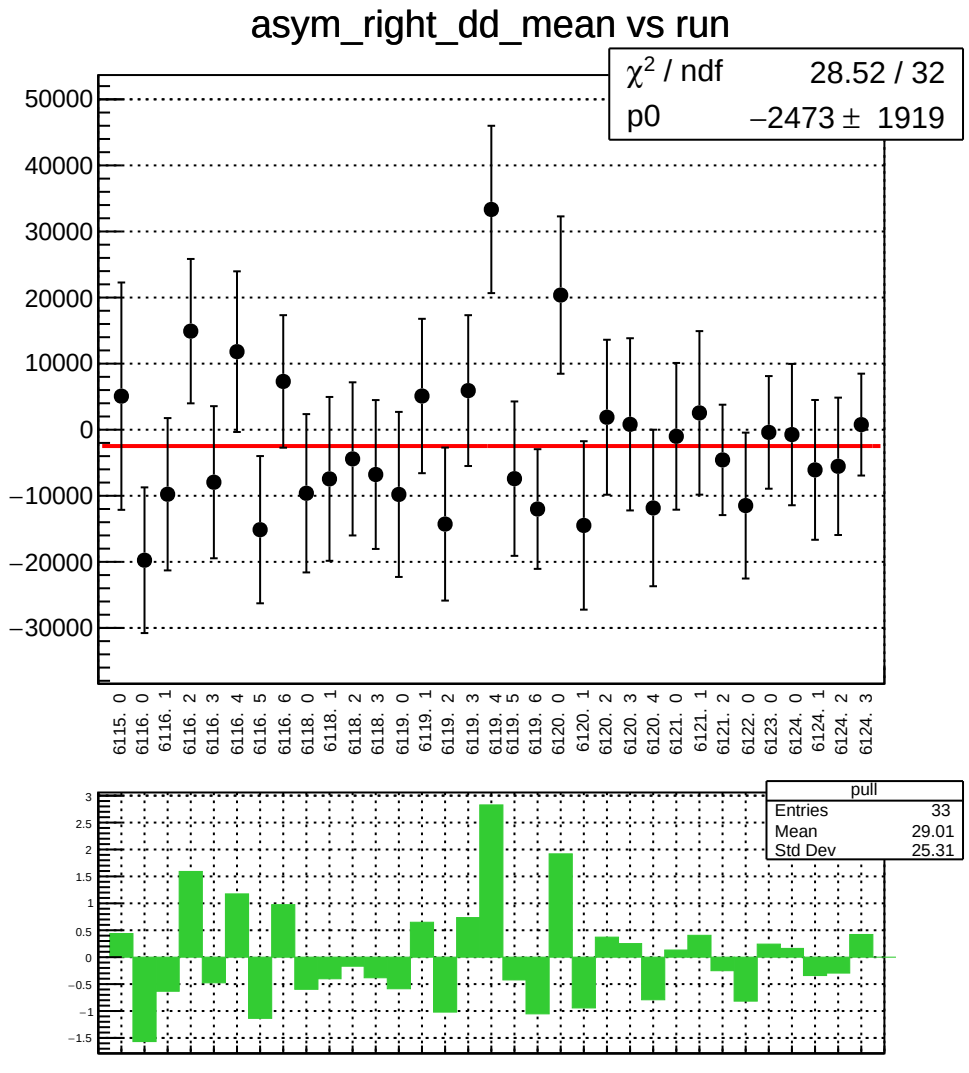

pull1D
Entries 33
Mean 0.0461
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

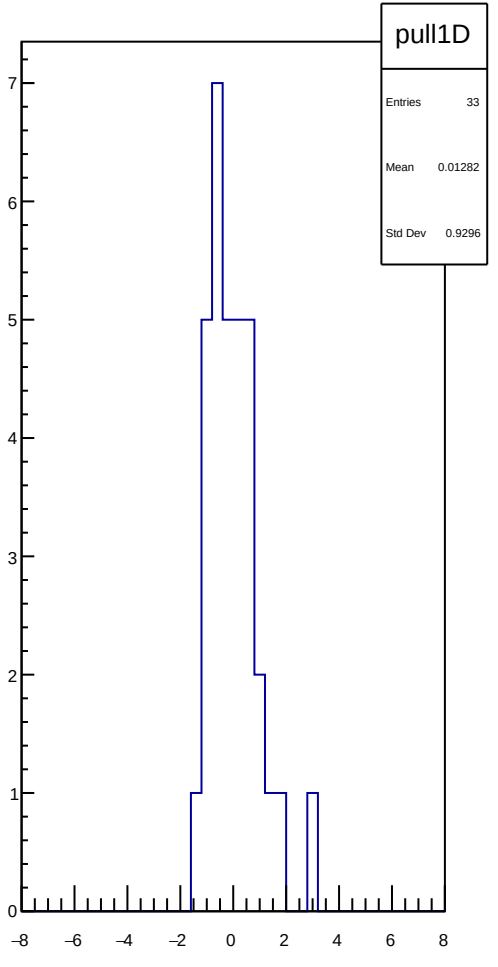

reg_asym_right_dd_rms vs run
χ² / ndf 297.8 / 32
p0 567.4 ± 0.7022
600
590
580
570
560
550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

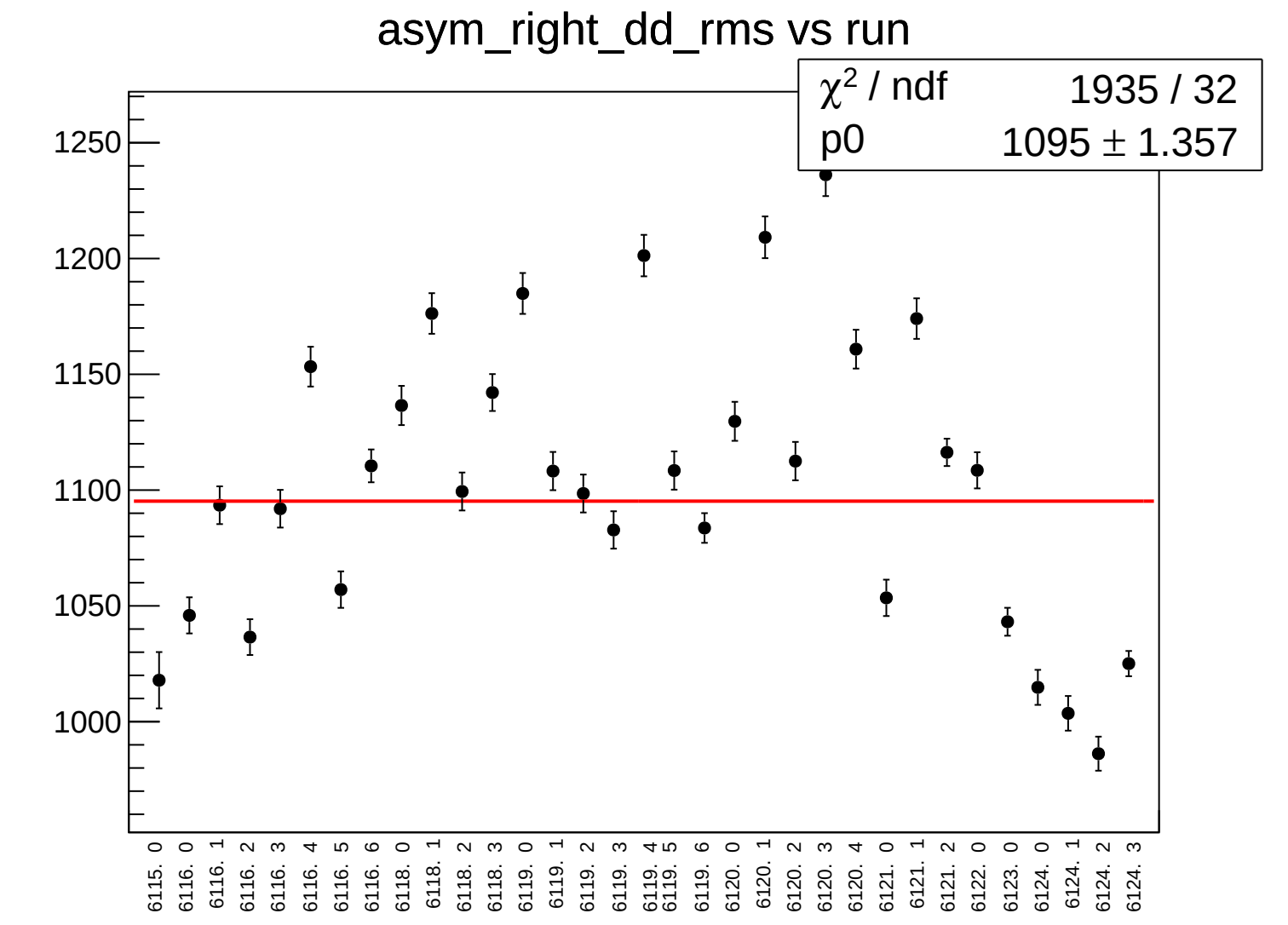

asym_right_dd_correction_mean vs run
χ² / ndf 35.43 / 32
p0 1768 ± 1638
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −9437
Std Dev 9447
2
1
0
−1
−2
−3

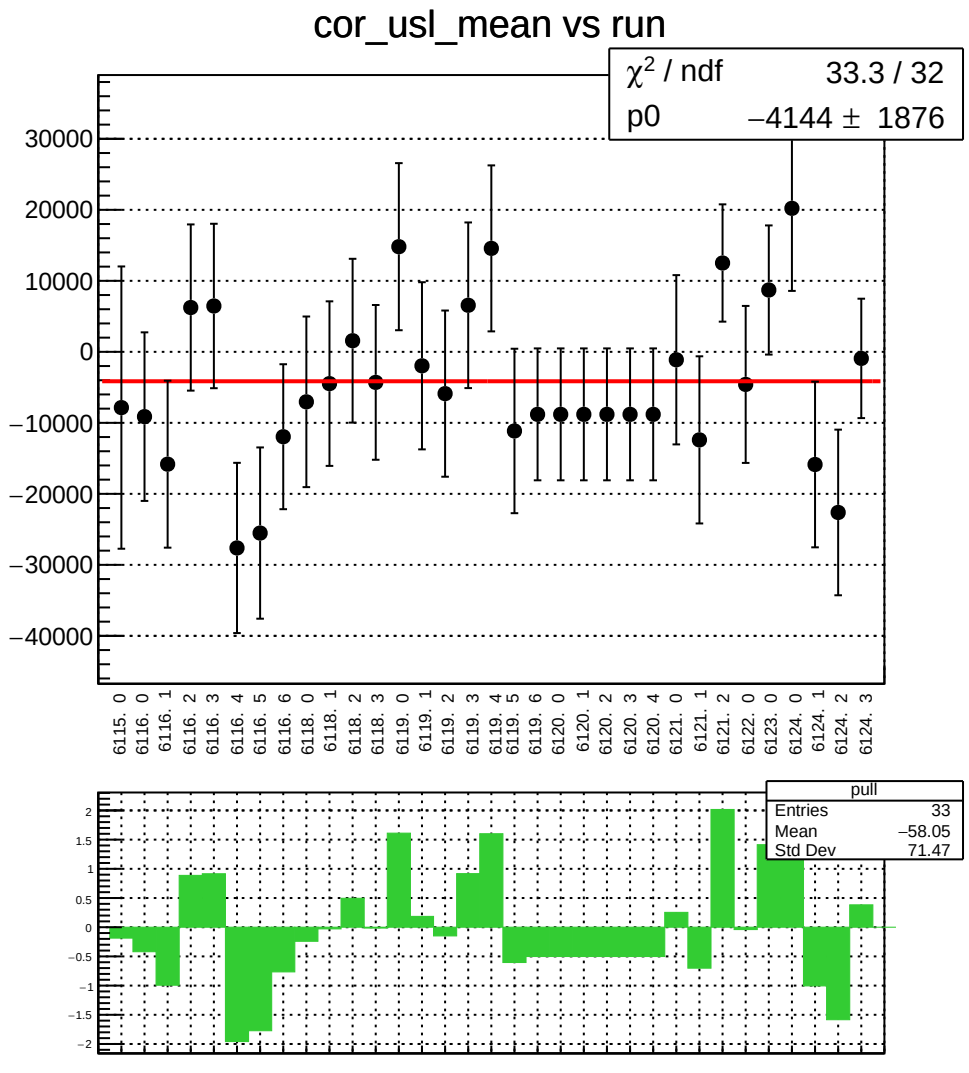

pull1D
Entries 33
Mean 0.0001805
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

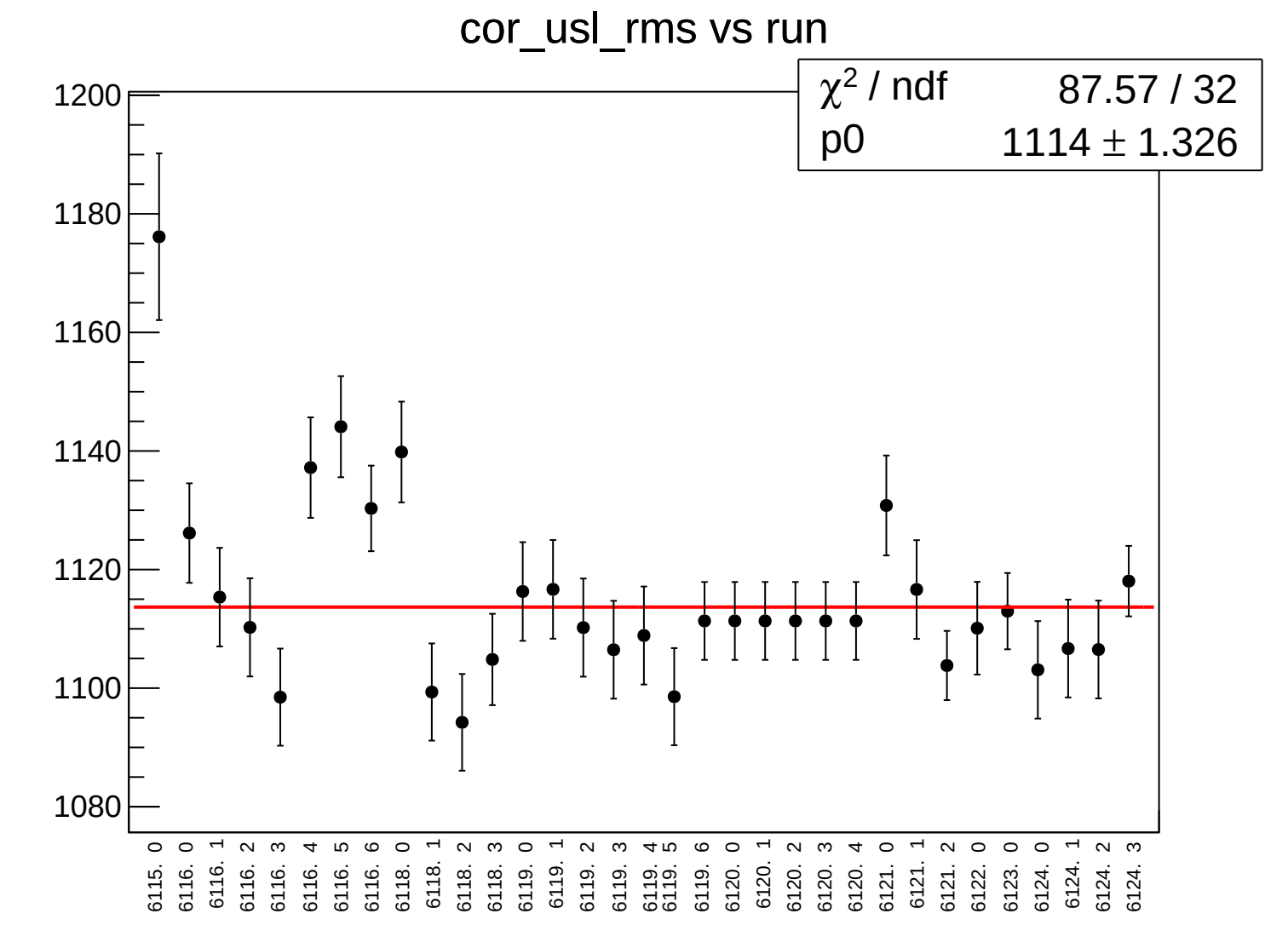

asym_right_dd_correction_rms vs run
χ² / ndf 3435 / 32
p0 933.6 ± 1.158
1100
1050
1000
950
900
850
800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

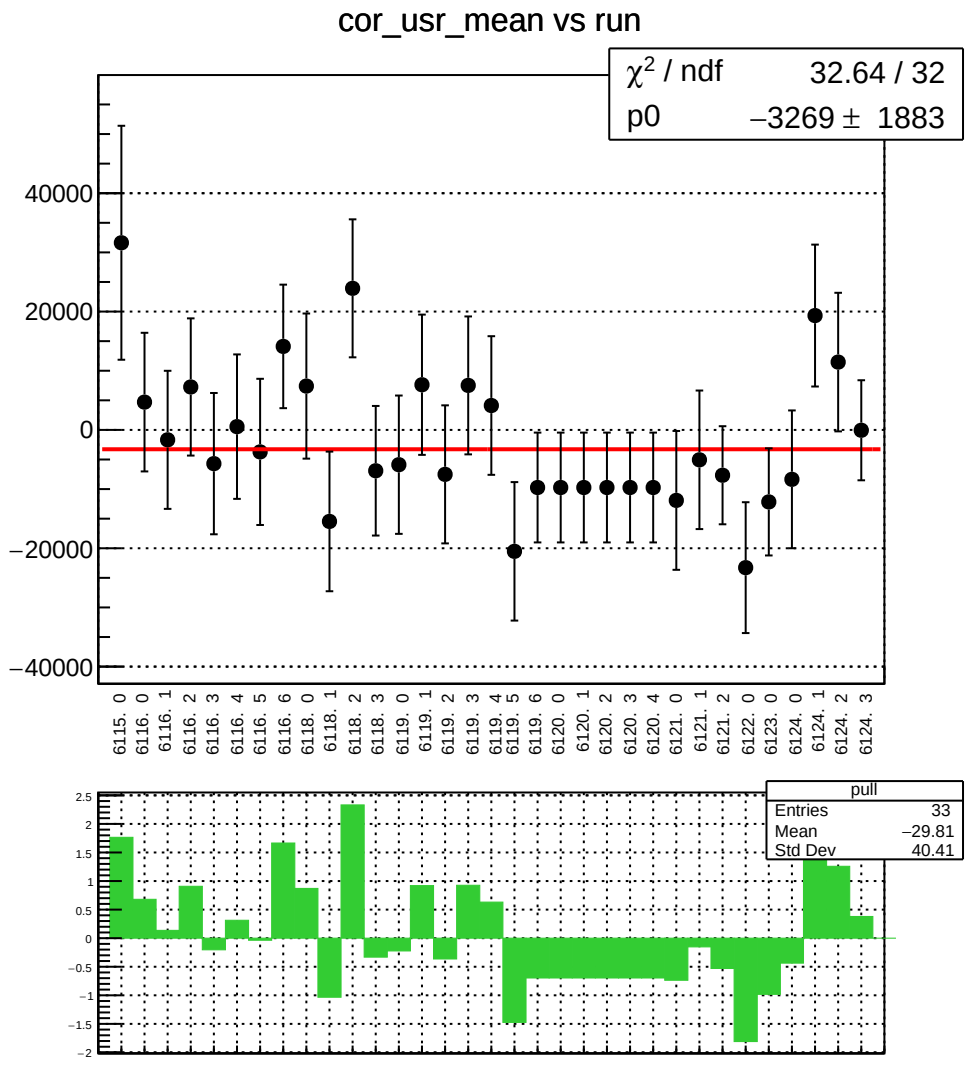

asym_right_dd_mean vs run
χ² / ndf 28.52 / 32
p0 −2473 ± 1919
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 29.01
Std Dev 25.31
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

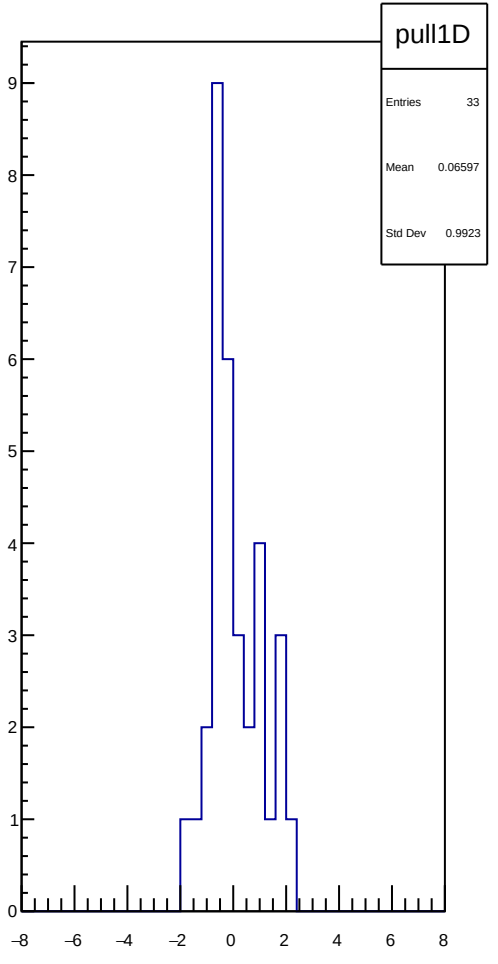

pull1D
Entries 33
Mean 0.01282
Std Dev 0.9296
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

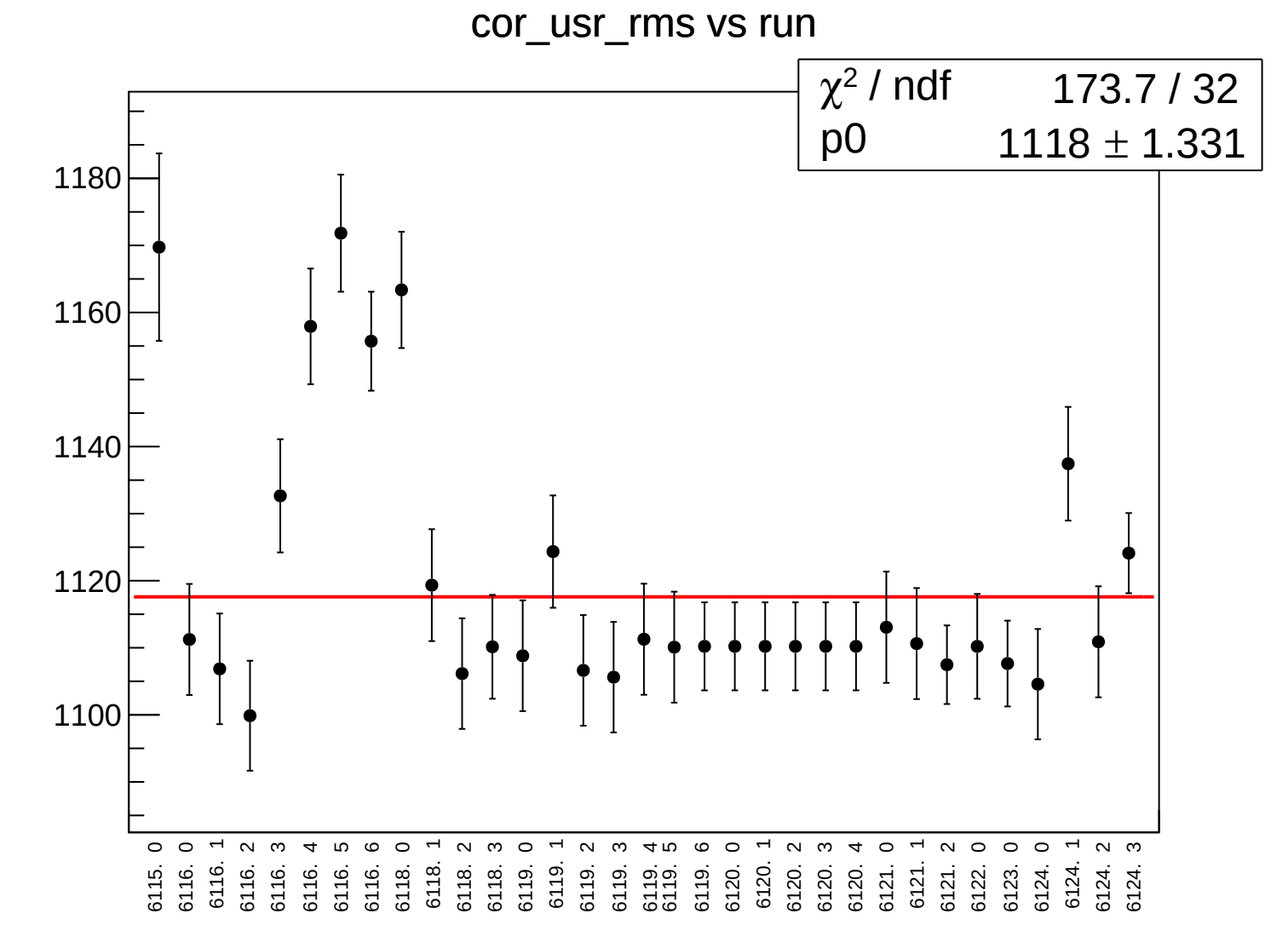

asym_right_dd_rms vs run
χ² / ndf 1935 / 32
p0 1095 ± 1.357
1250
1200
1150
1100
1050
1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

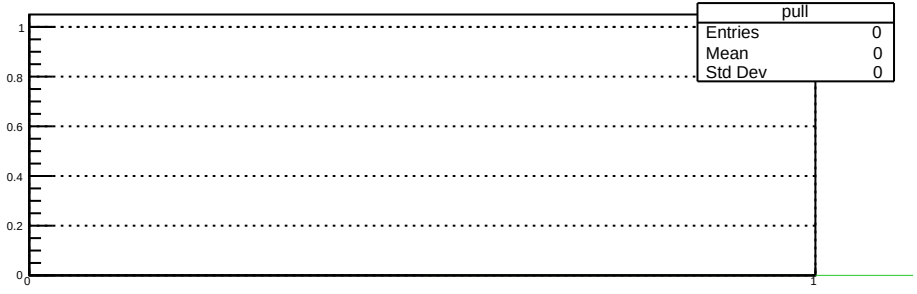

cor_usl_mean vs run
χ² / ndf 33.3 / 32
p0 −4144 ± 1876
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −58.05
Std Dev 71.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02122
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

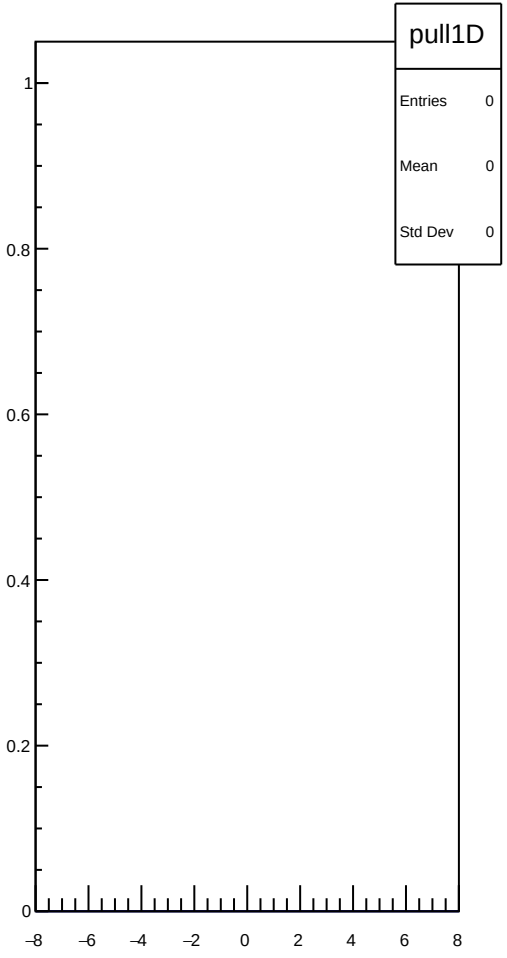

cor_usl_rms vs run
χ² / ndf 87.57 / 32
p0 1114 ± 1.326
1200
1180
1160
1140
1120
1100
1080
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

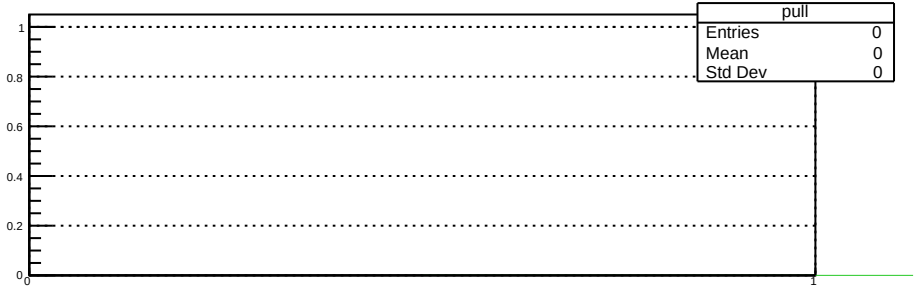

cor_usr_mean vs run
χ² / ndf 32.64 / 32
p0 −3269 ± 1883
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −29.81
Std Dev 40.41
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

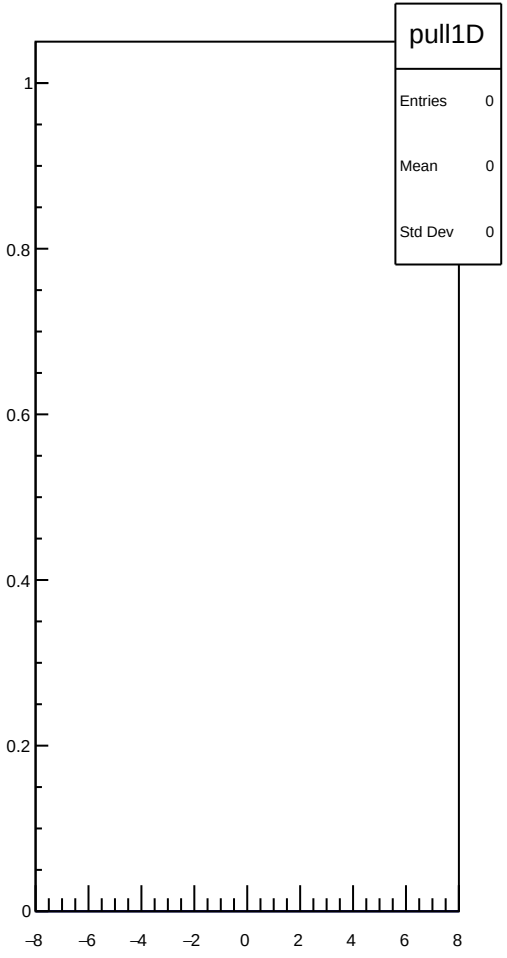

pull1D
Entries 33
Mean 0.06597
Std Dev 0.9923
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

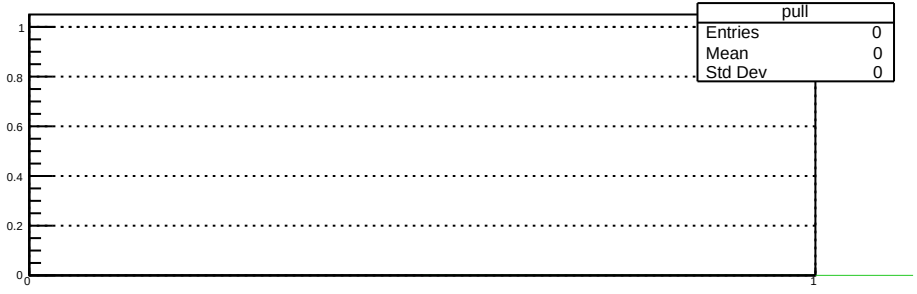

cor_usr_rms vs run
χ² / ndf 173.7 / 32
p0 1118 ± 1.331
1180
1160
1140
1120
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

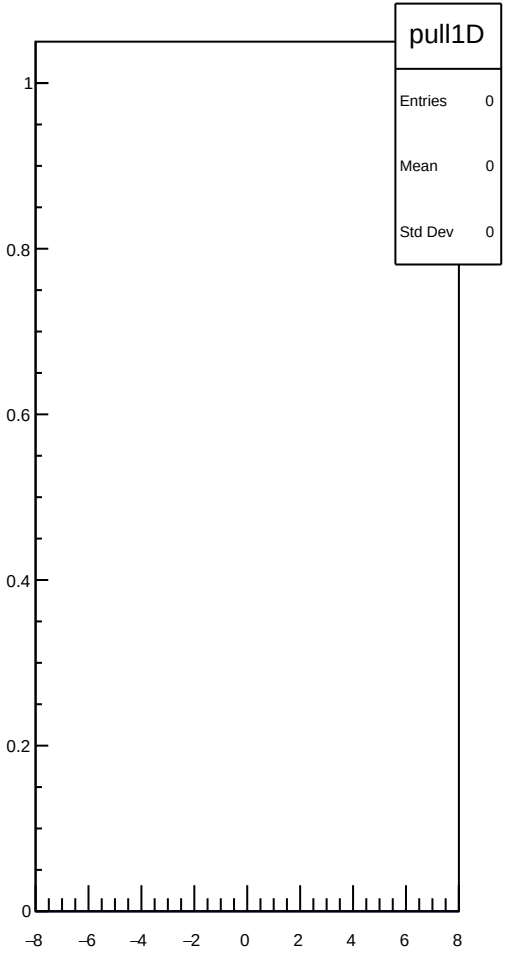

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

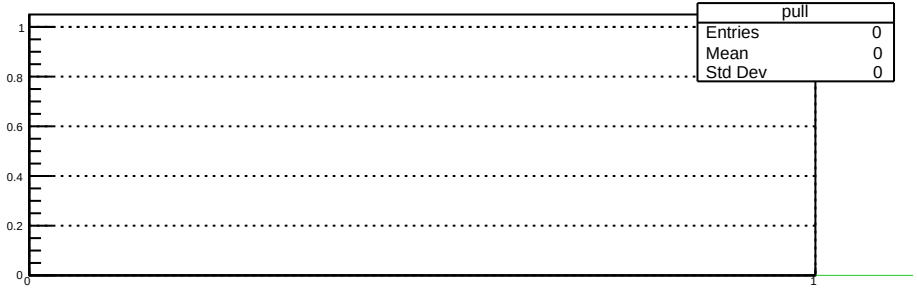

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

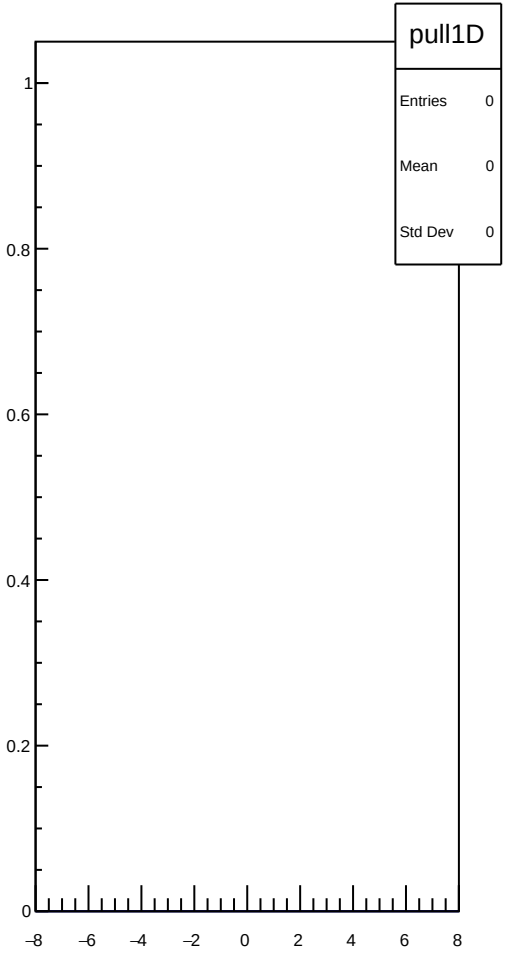

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

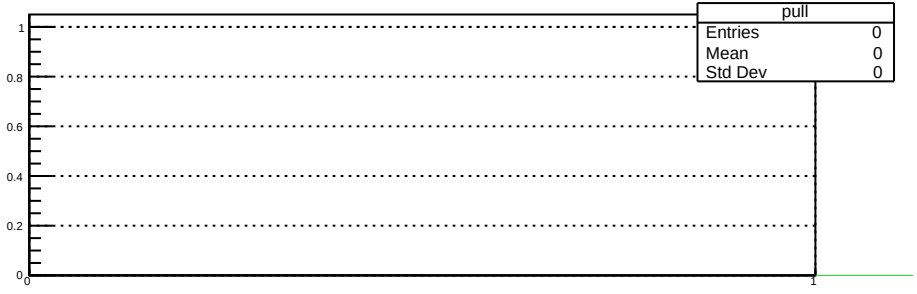

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

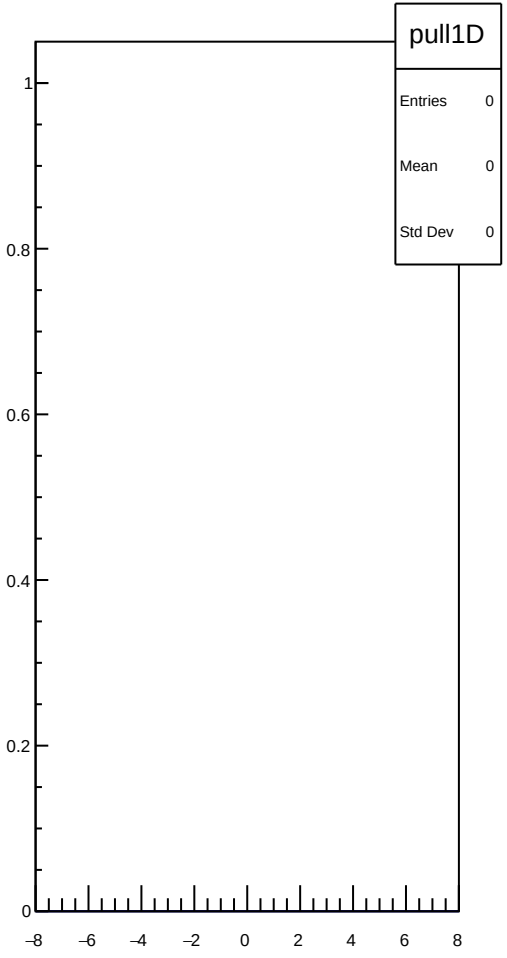

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

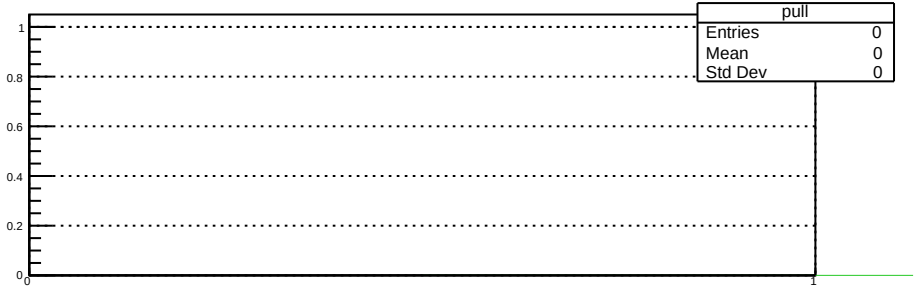

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

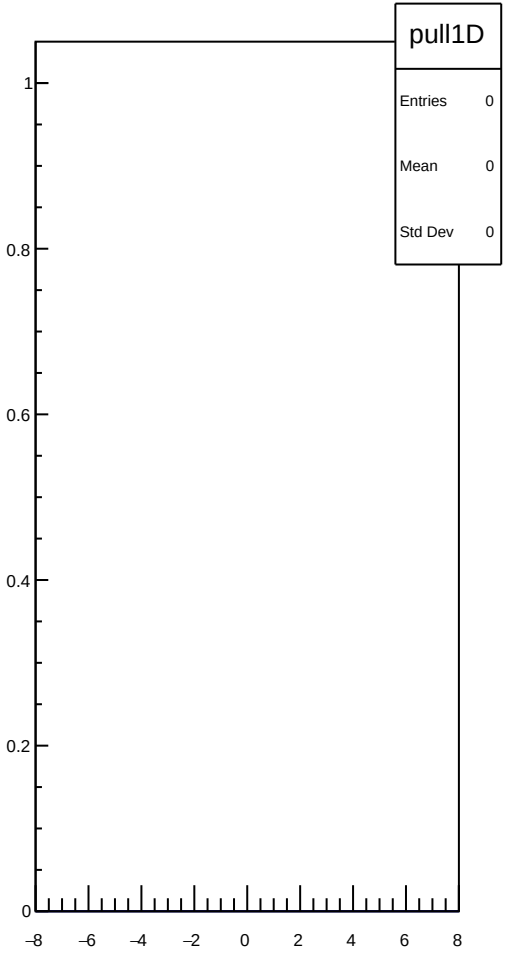

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

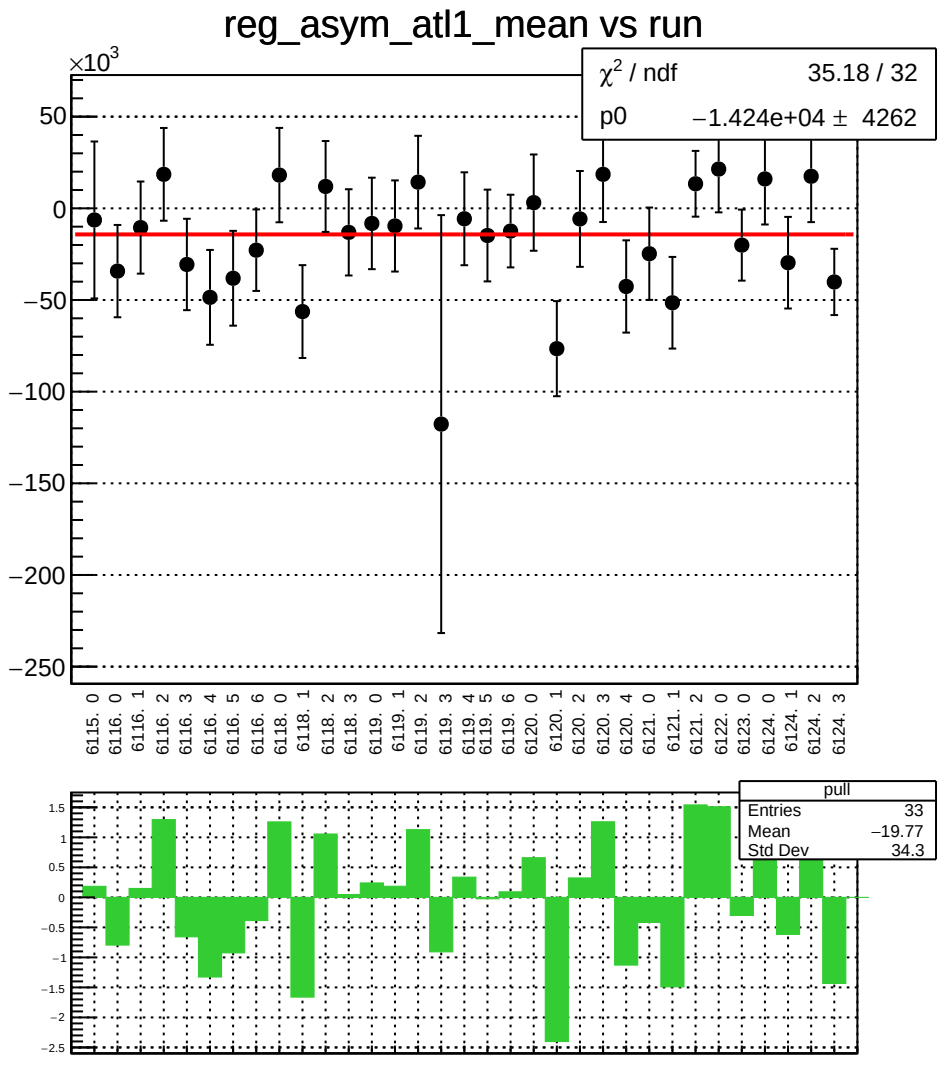

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

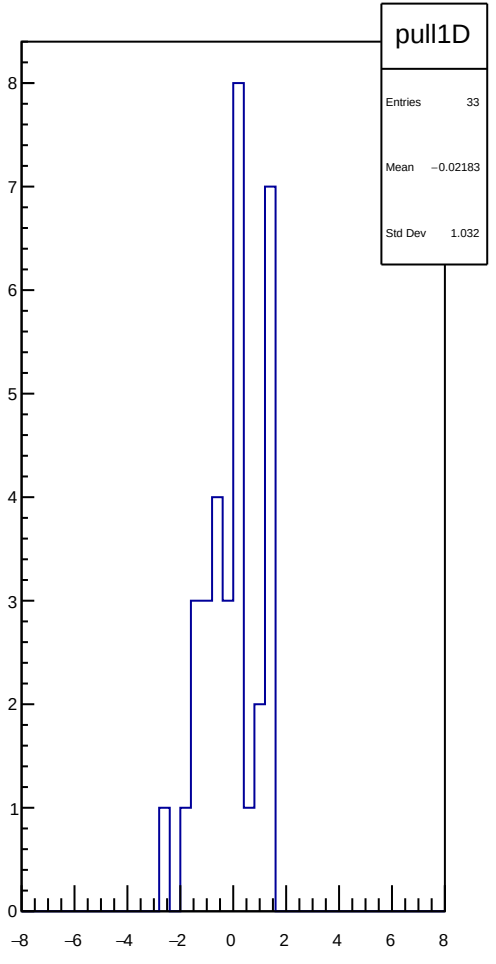

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

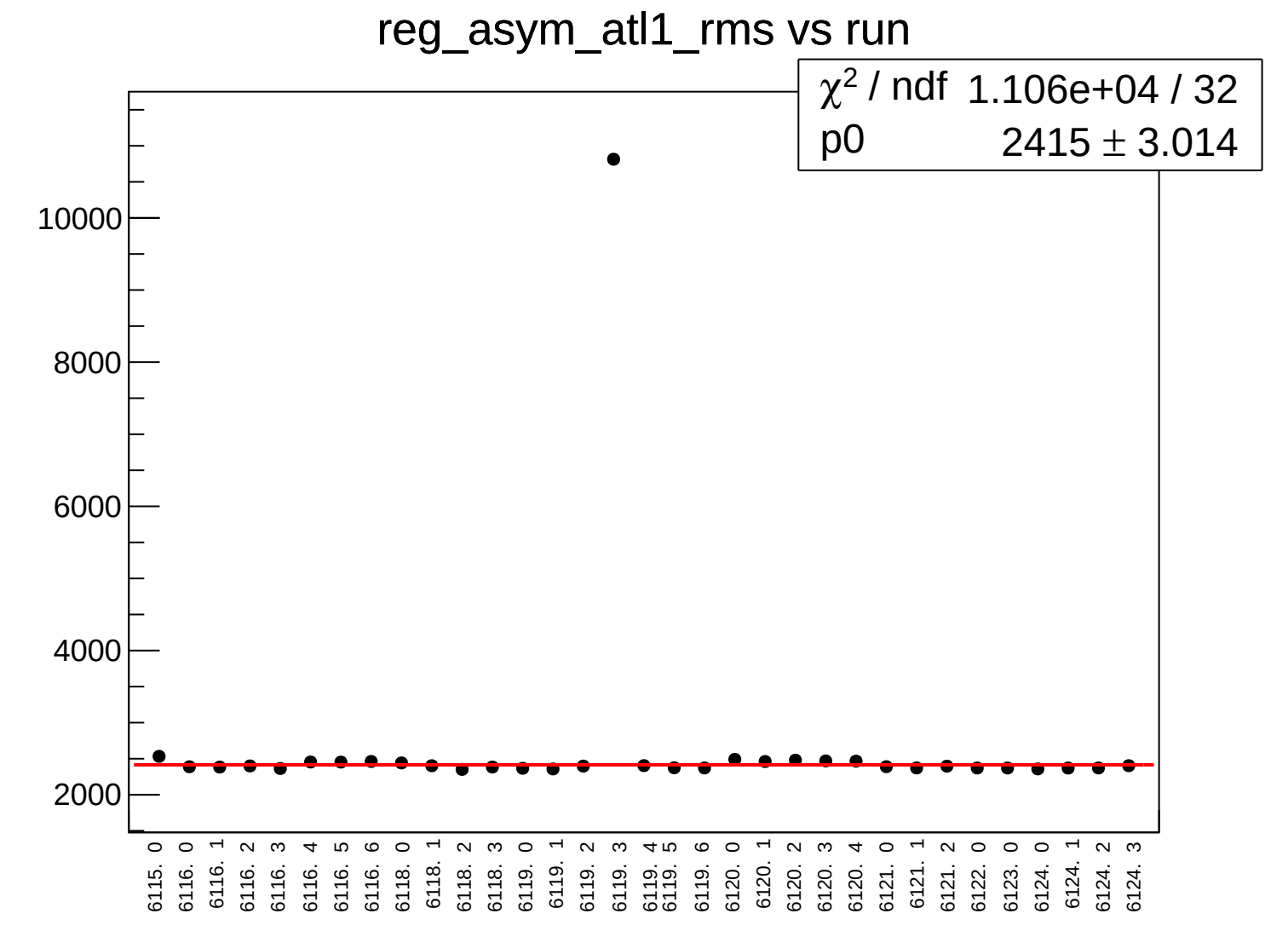

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

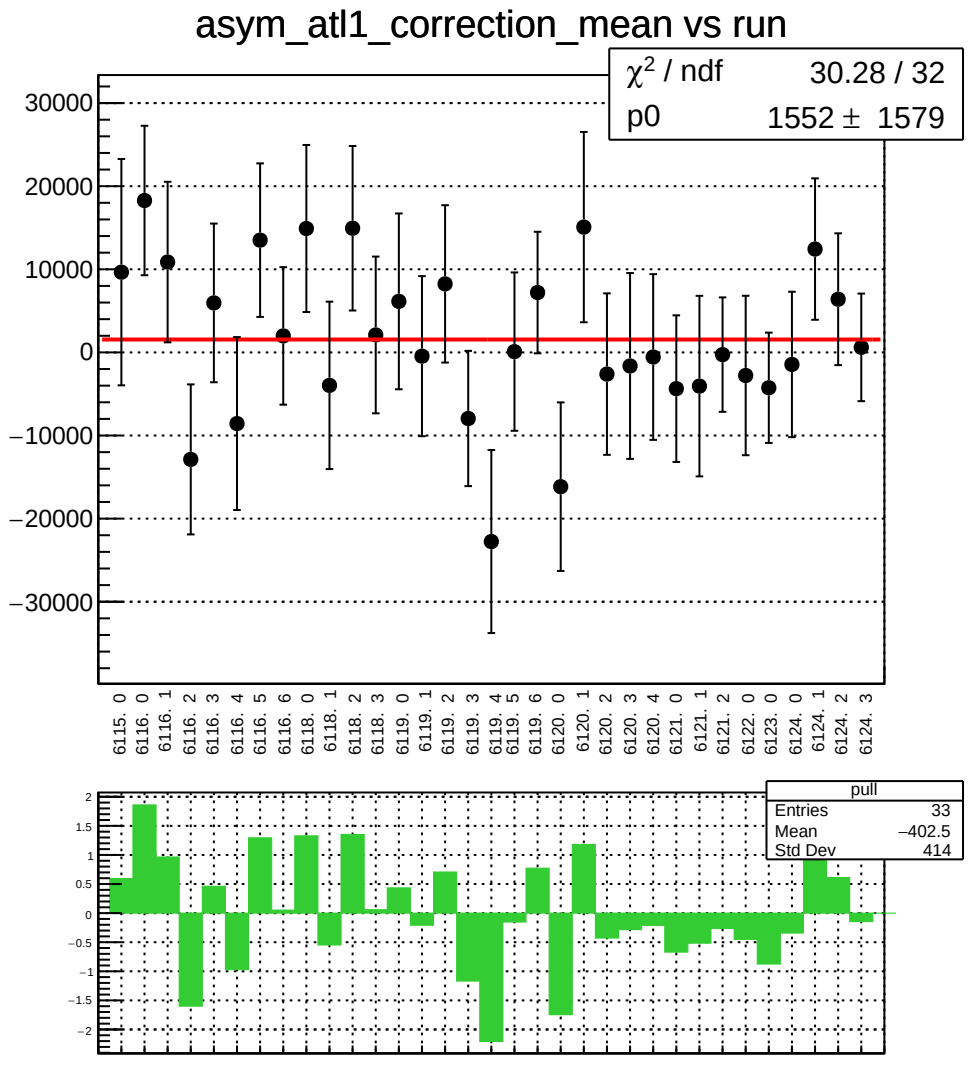

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

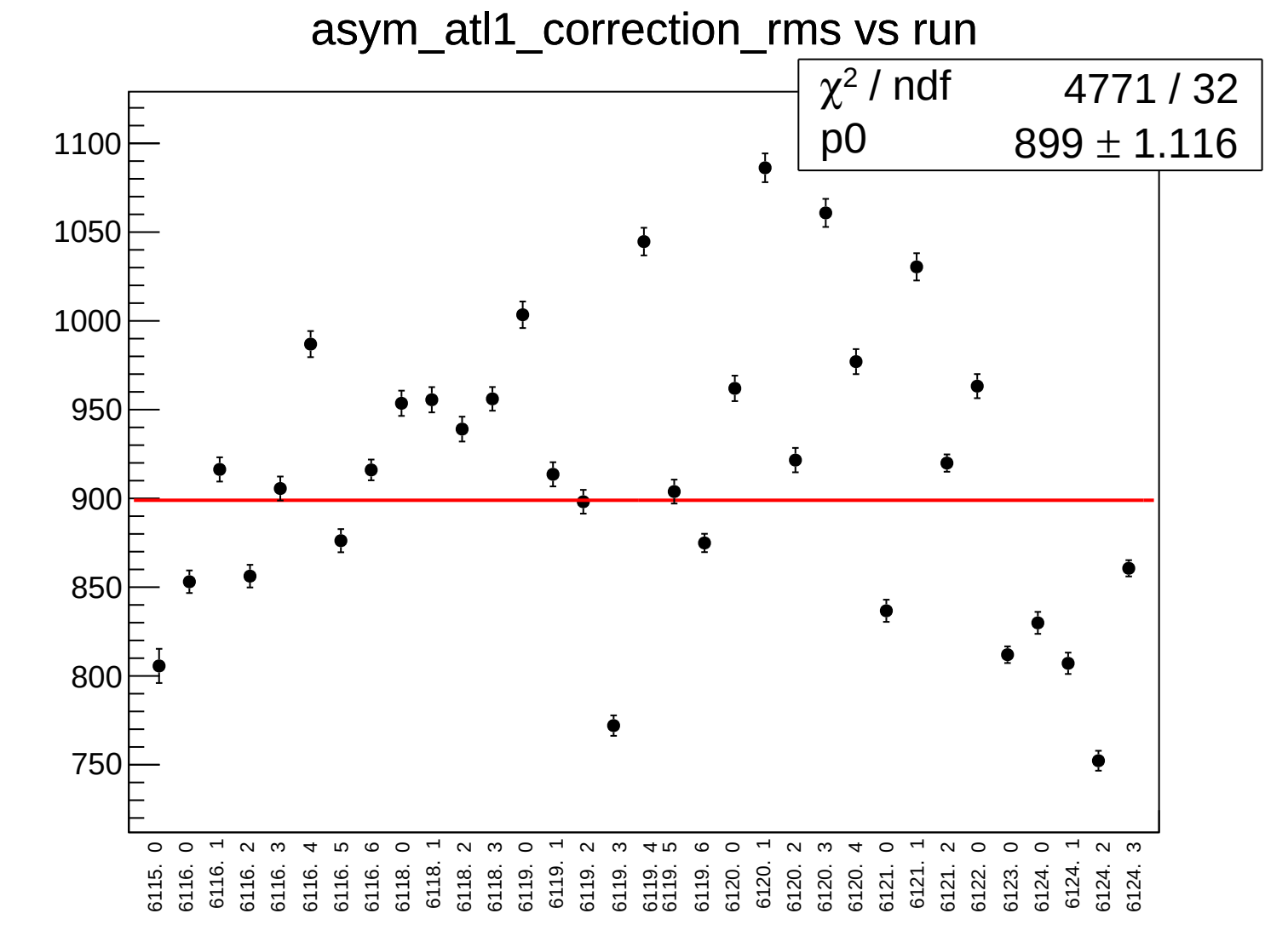

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

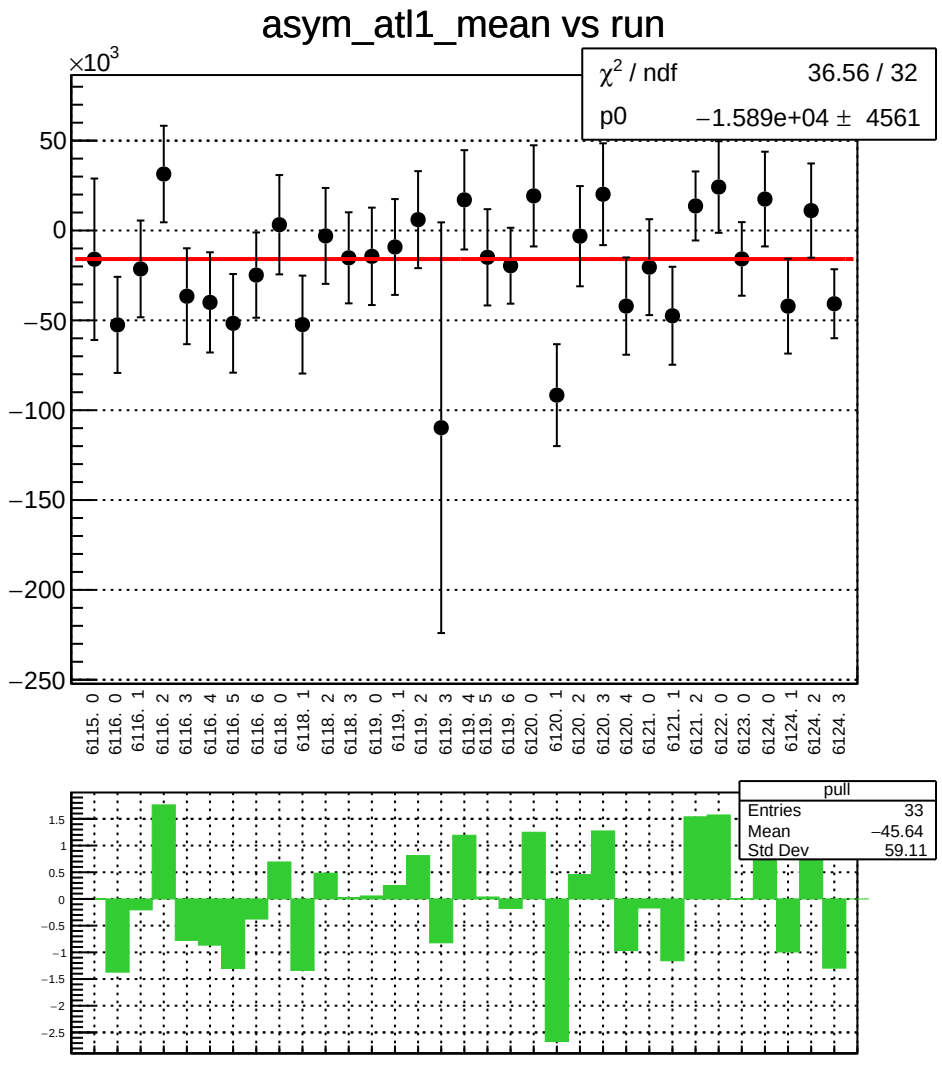

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 35.18 / 32
p0 −1.424e+04 ± 4262
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −19.77
Std Dev 34.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

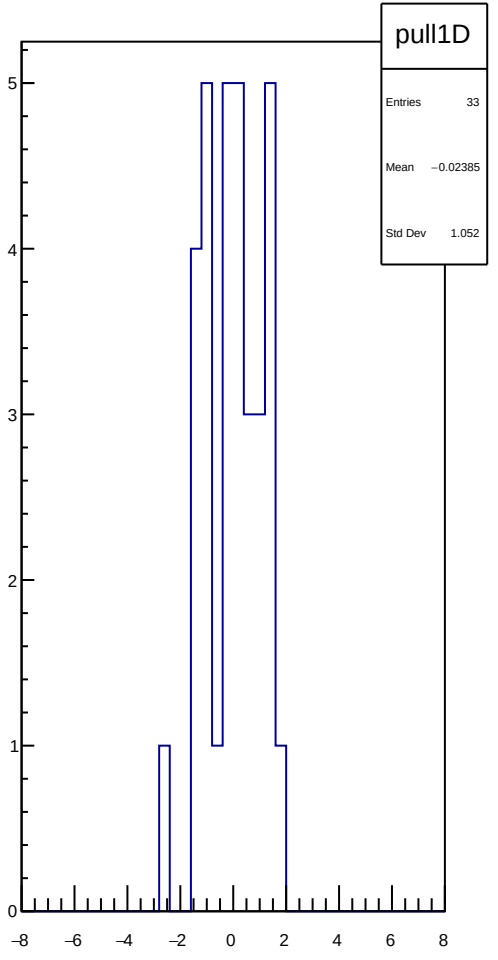

pull1D
Entries 33
Mean −0.02183
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

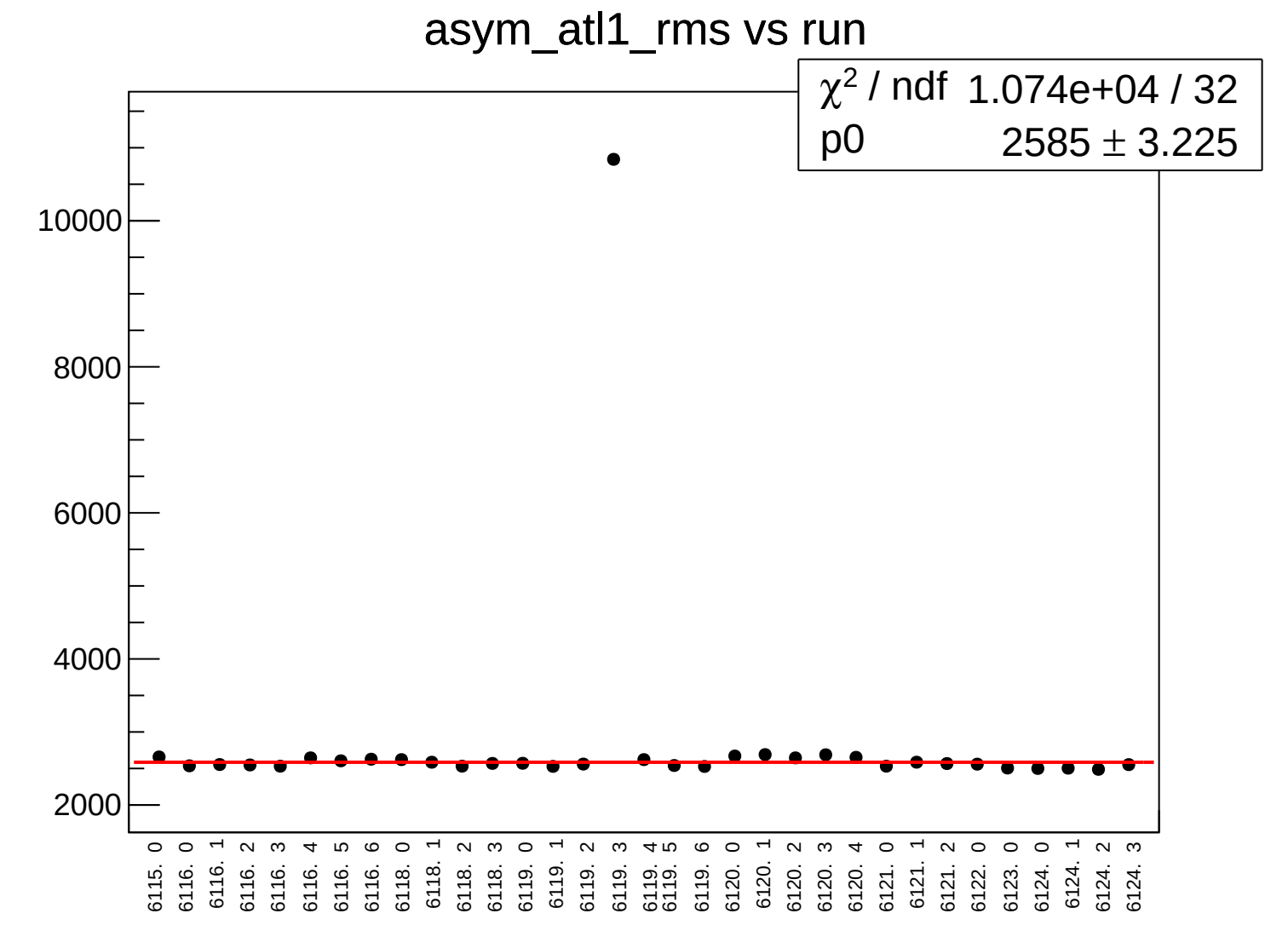

reg_asym_atl1_rms vs run
χ² / ndf 1.106e+04 / 32
p0 2415 ± 3.014
10000
8000
6000
4000
2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

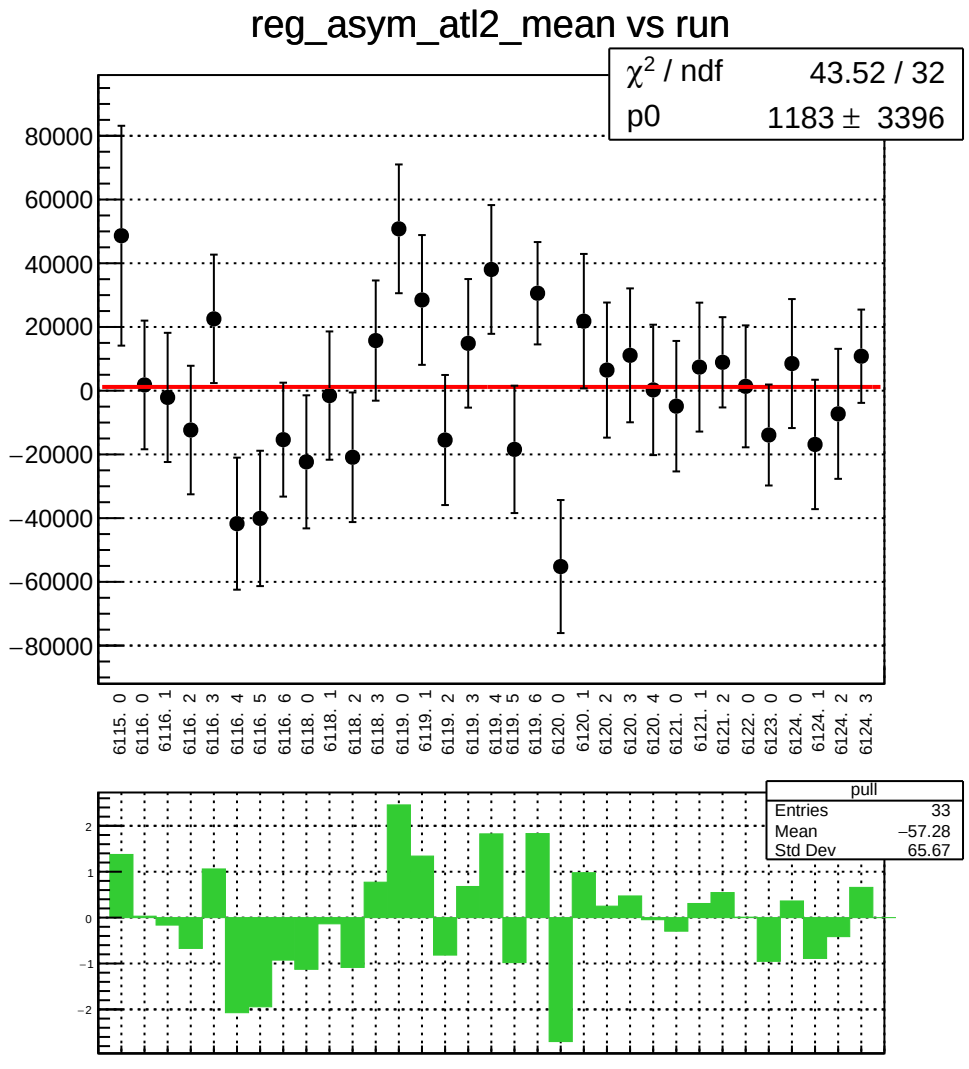

asym_atl1_correction_mean vs run
χ² / ndf 30.28 / 32
p0 1552 ± 1579
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −402.5
Std Dev 414
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.004864
Std Dev 0.9579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

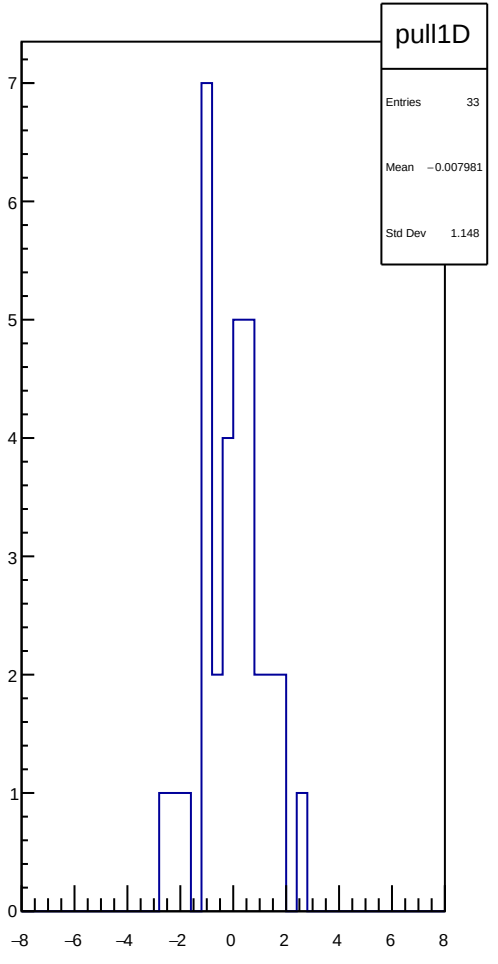

asym_atl1_correction_rms vs run
χ² / ndf 4771 / 32
p0 899 ± 1.116
1100
1050
1000
950
900
850
800
750
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

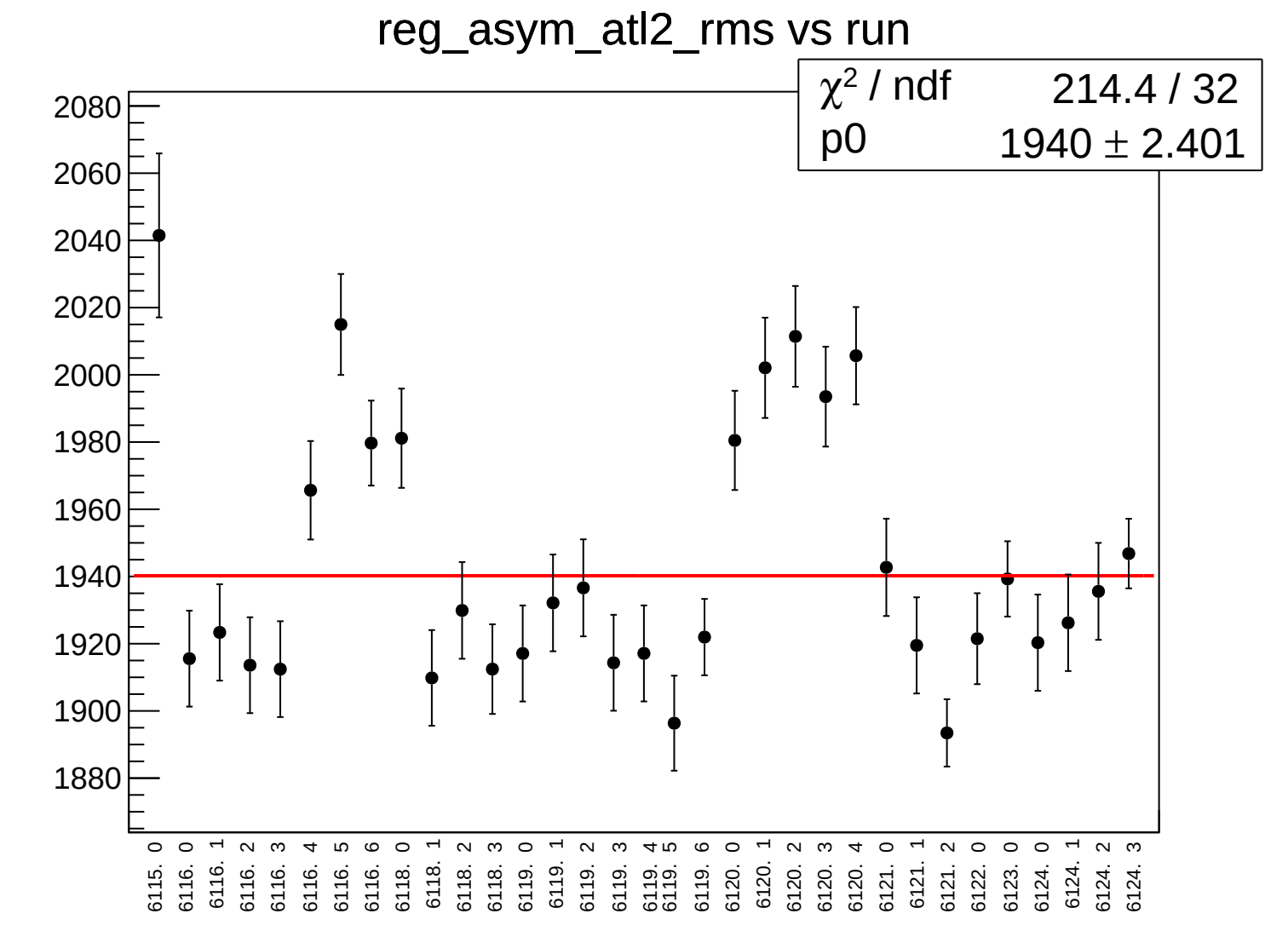

asym_atl1_mean vs run
×10^3
χ² / ndf 36.56 / 32
p0 −1.589e+04 ± 4561
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −45.64
Std Dev 59.11
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

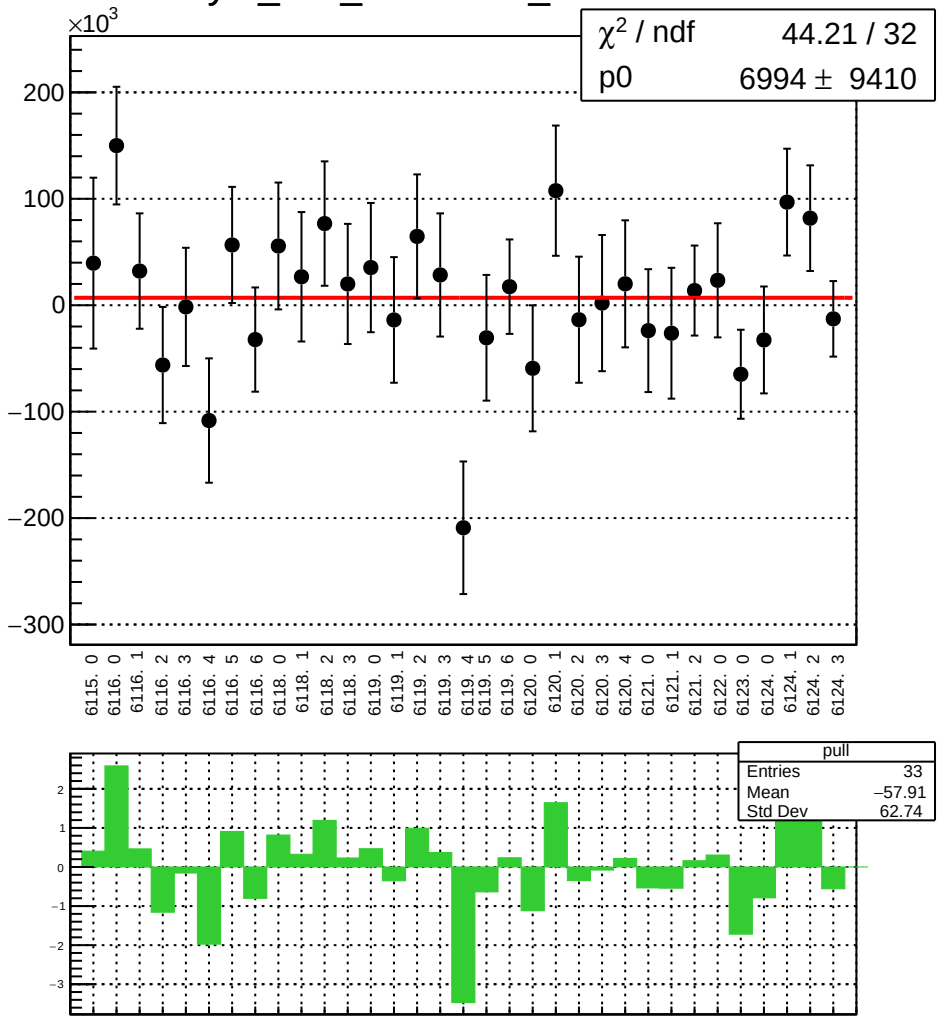

pull1D
Entries 33
Mean −0.02385
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

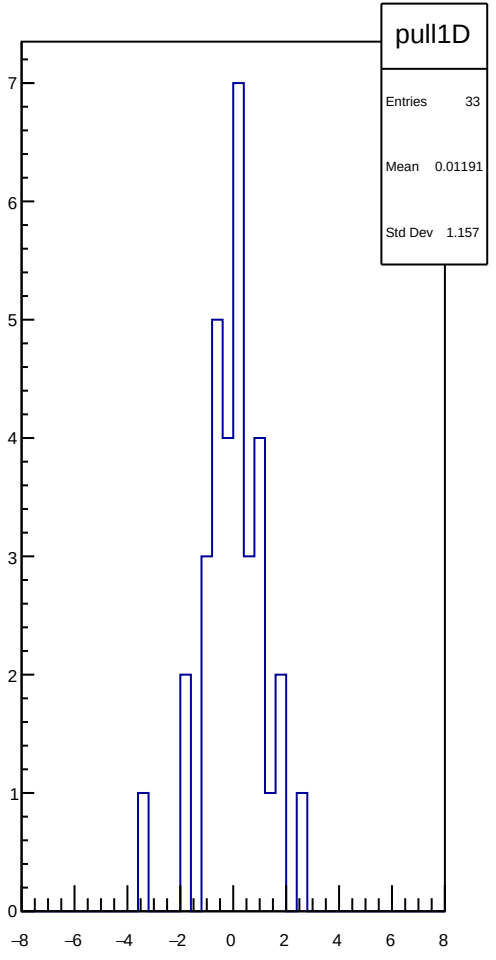

asym_atl1_rms vs run
χ² / ndf 1.074e+04 / 32
p0 2585 ± 3.225
10000
8000
6000
4000
2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

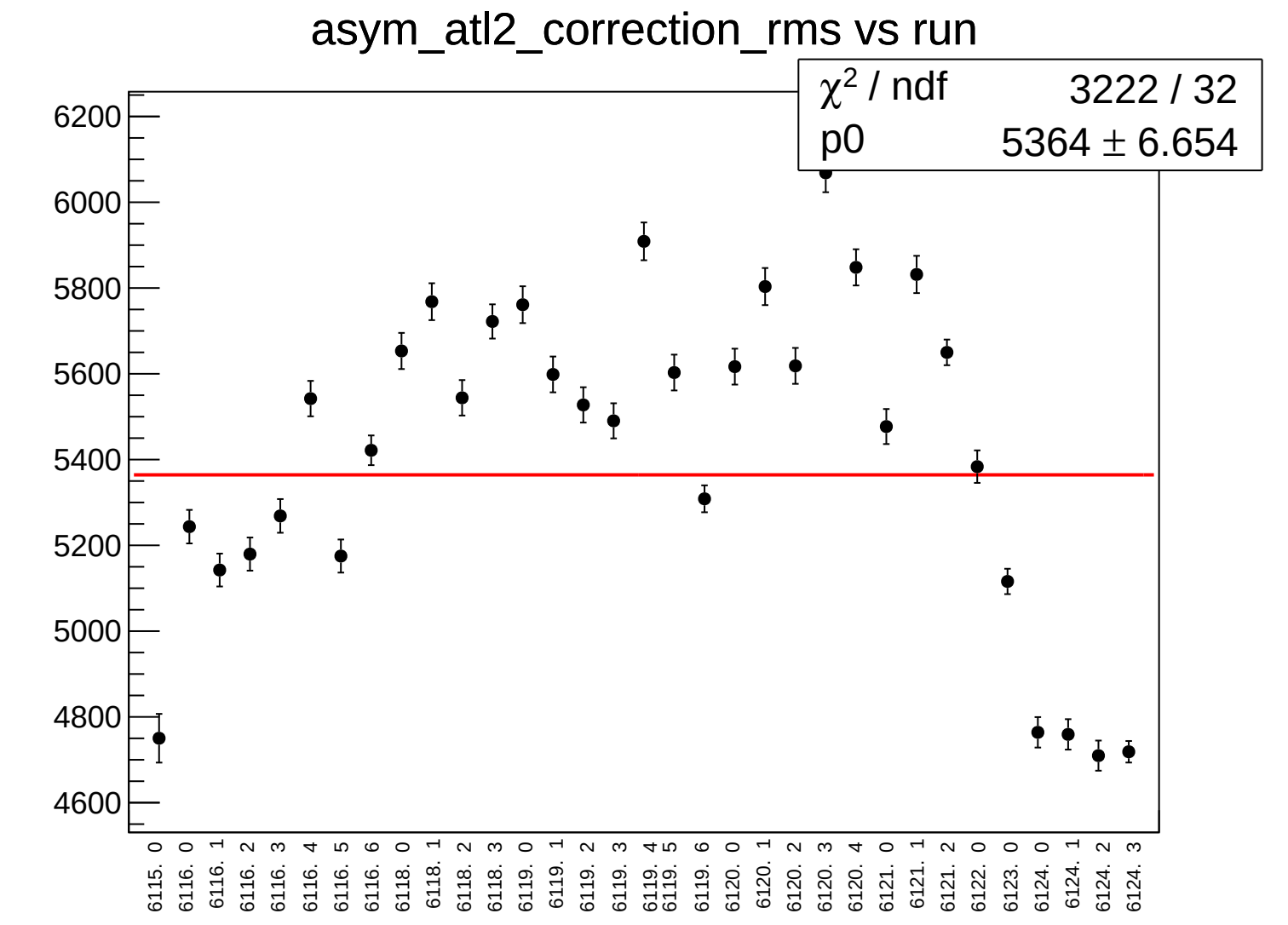

reg_asym_atl2_mean vs run
χ² / ndf 43.52 / 32
p0 1183 ± 3396
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −57.28
Std Dev 65.67
2
1
0
−1
−2

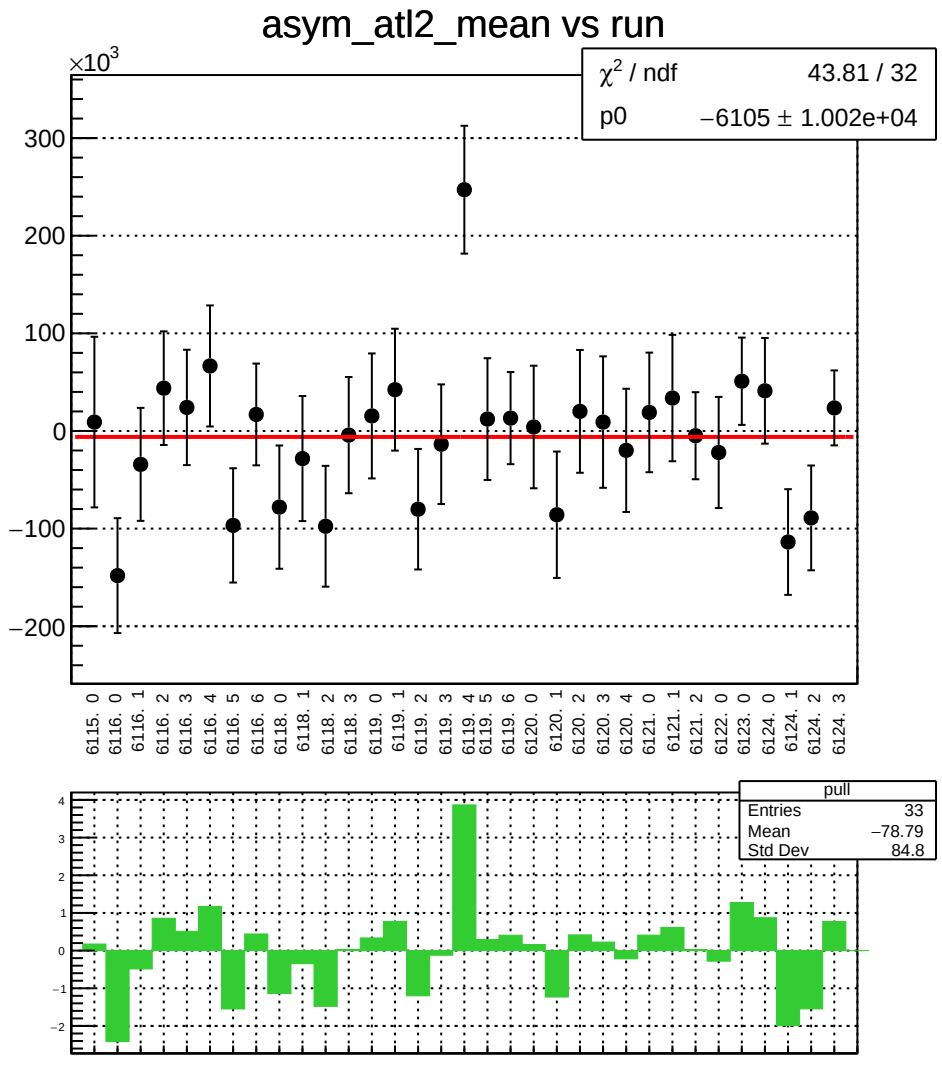

pull1D
Entries 33
Mean −0.007981
Std Dev 1.148
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

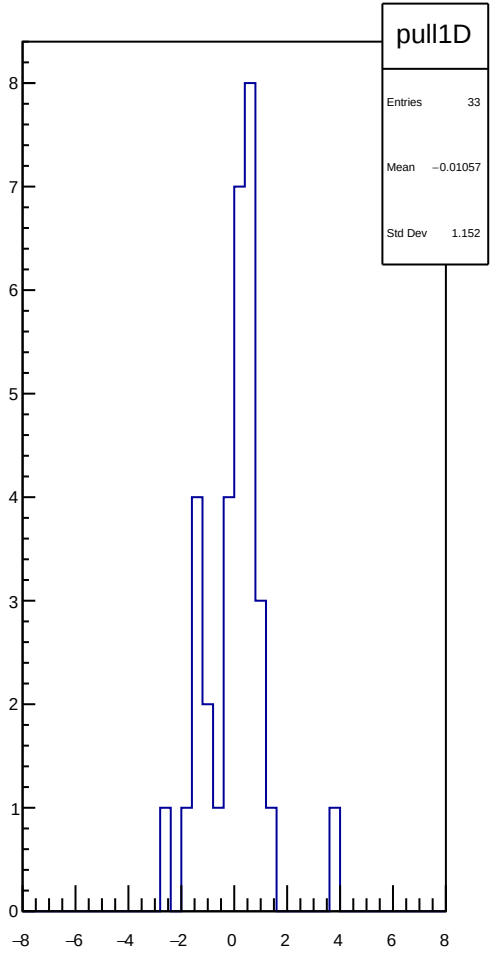

reg_asym_atl2_rms vs run
χ² / ndf 214.4 / 32
p0 1940 ± 2.401
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

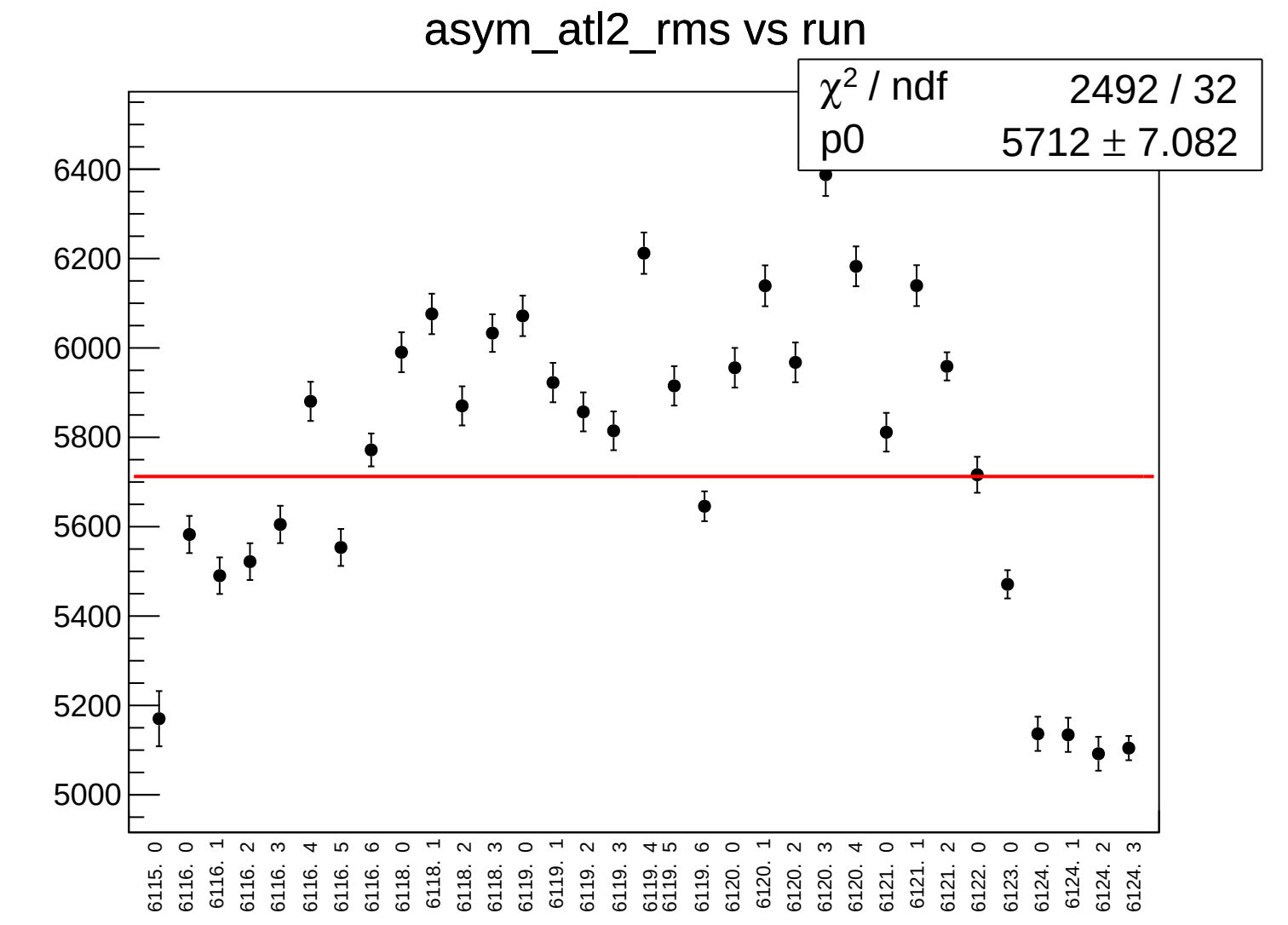

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 44.21 / 32
p0 6994 ± 9410
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −57.91
Std Dev 62.74
2
1
0
−1
−2
−3

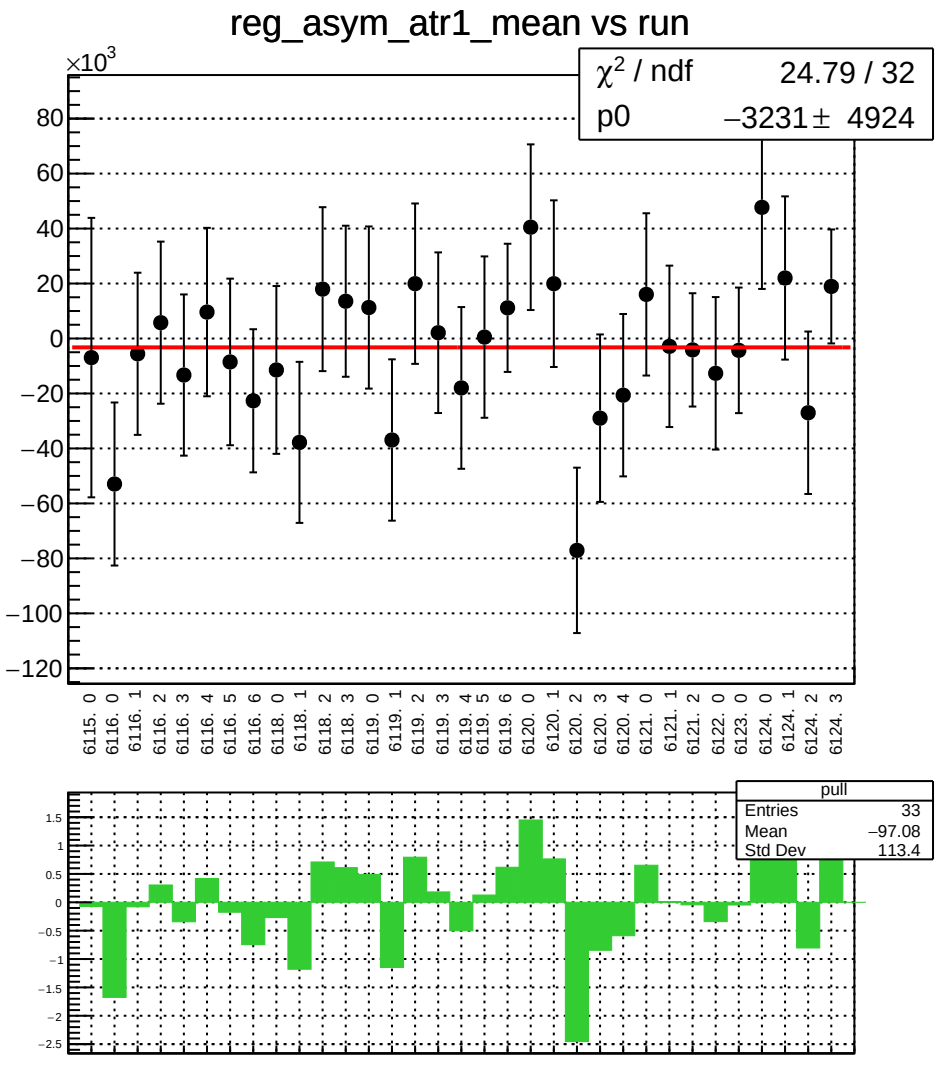

pull1D
Entries 33
Mean 0.01191
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

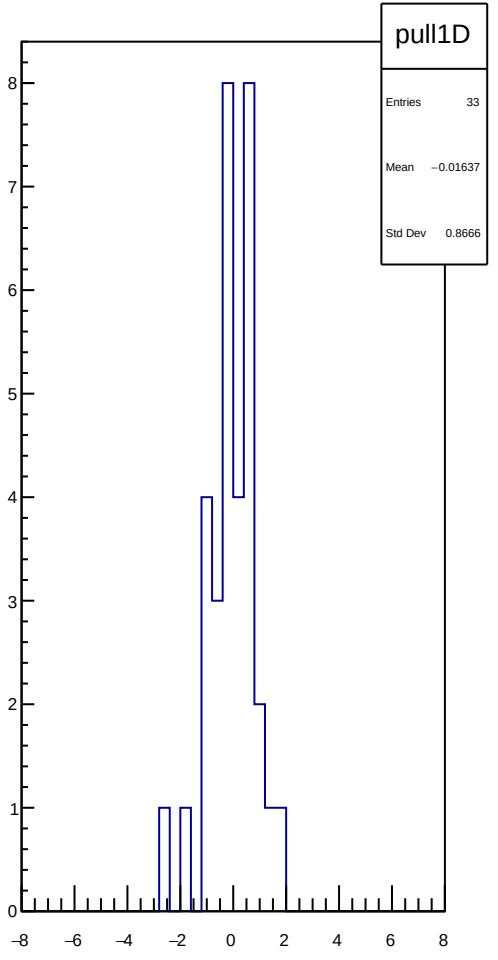

asym_atl2_correction_rms vs run
χ² / ndf 3222 / 32
p0 5364 ± 6.654
6200
6000
5800
5600
5400
5200
5000
4800
4600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

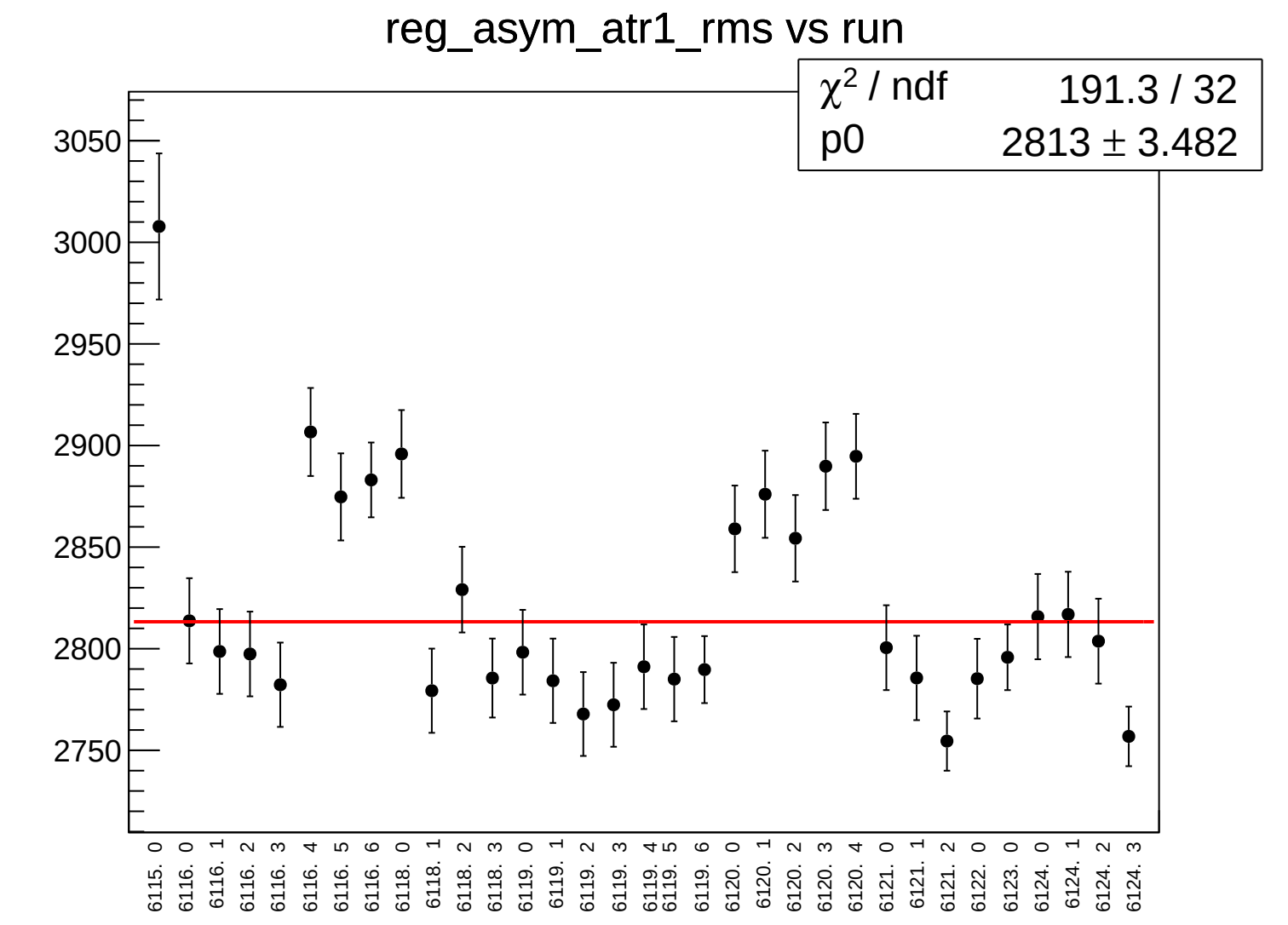

asym_atl2_mean vs run
×10^3
χ^2 / ndf 43.81 / 32
p0 −6105 ± 1.002e+04
300
200
100
0
−100
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −78.79
Std Dev 84.8
4
3
2
1
0
−1
−2

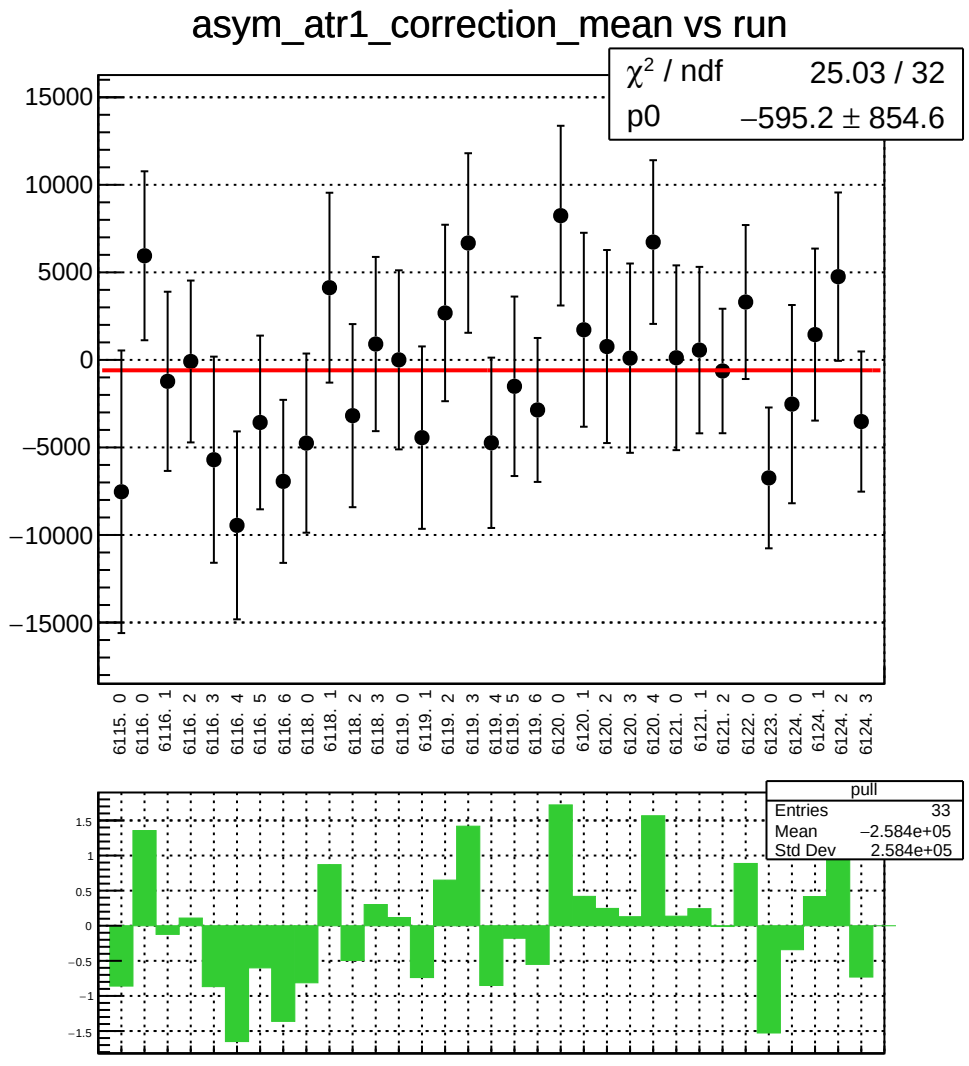

pull1D
Entries 33
Mean −0.01057
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

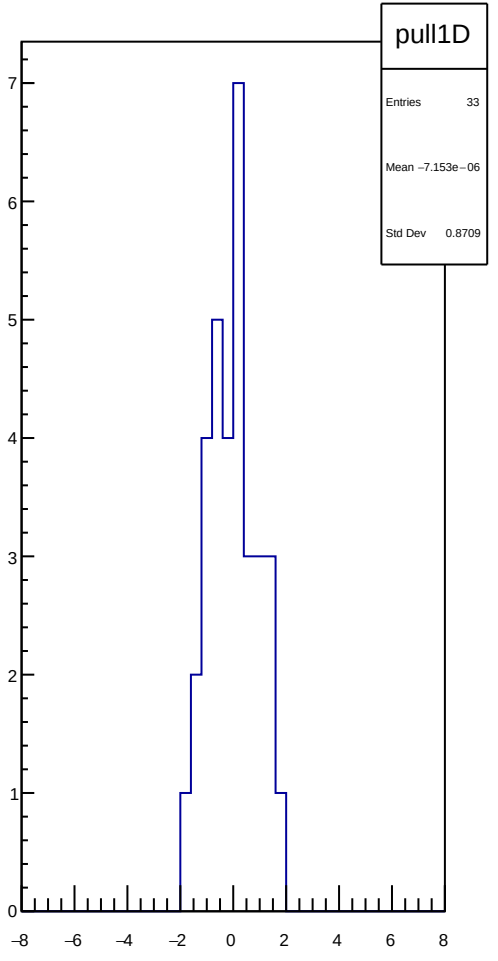

asym_atl2_rms vs run
χ² / ndf 2492 / 32
p0 5712 ± 7.082
6400
6200
6000
5800
5600
5400
5200
5000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

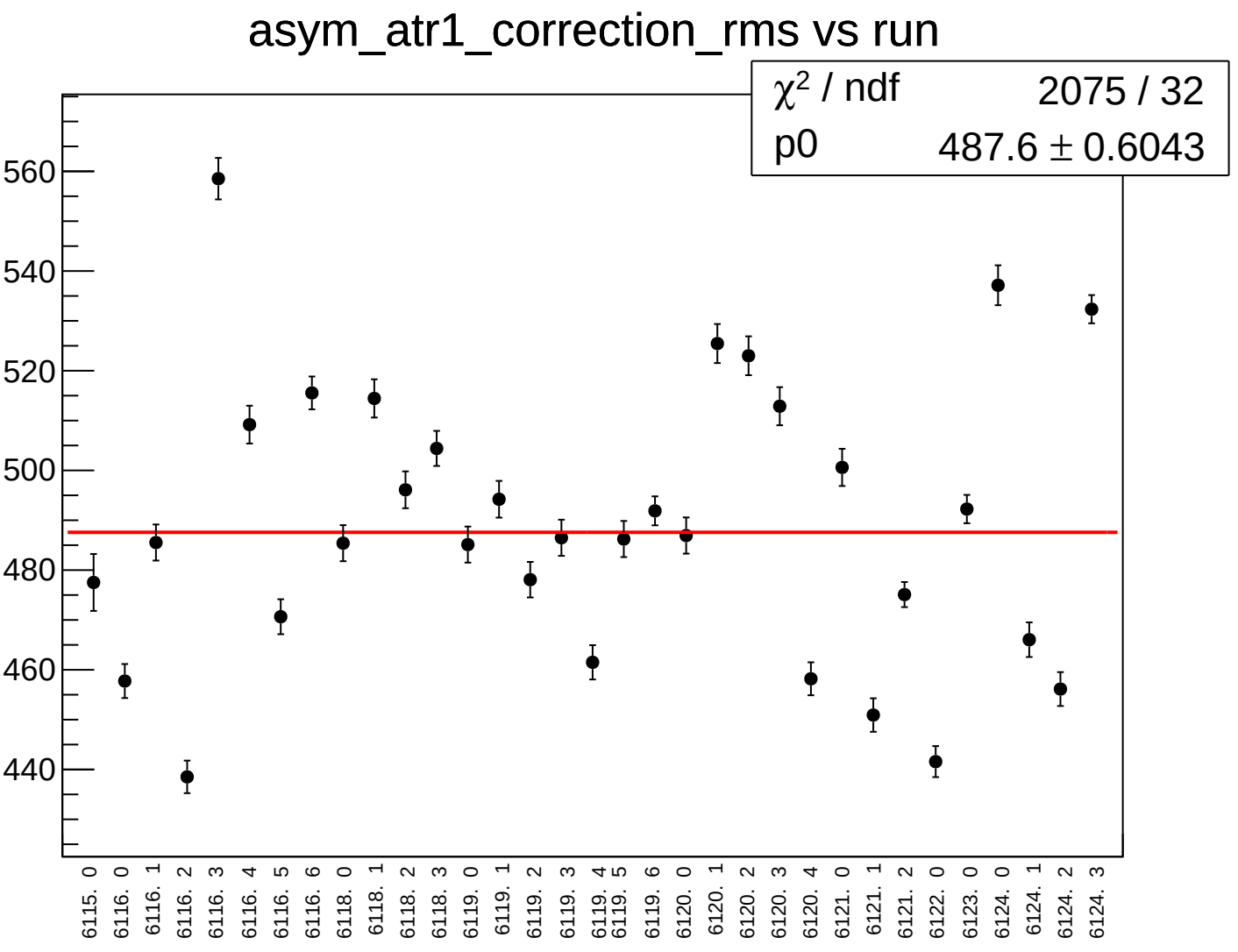

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 24.79 / 32
p0 −3231 ± 4924
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −97.08
Std Dev 113.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

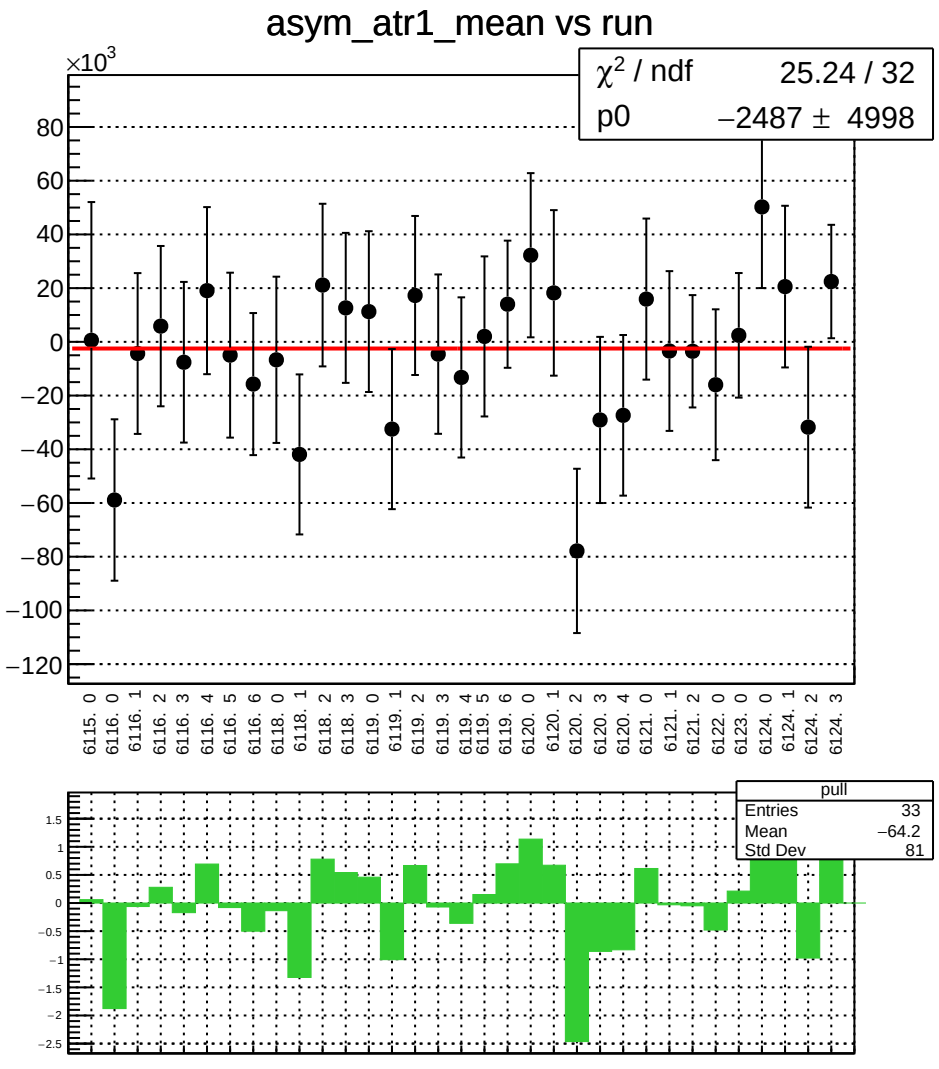

pull1D
Entries 33
Mean −0.01637
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

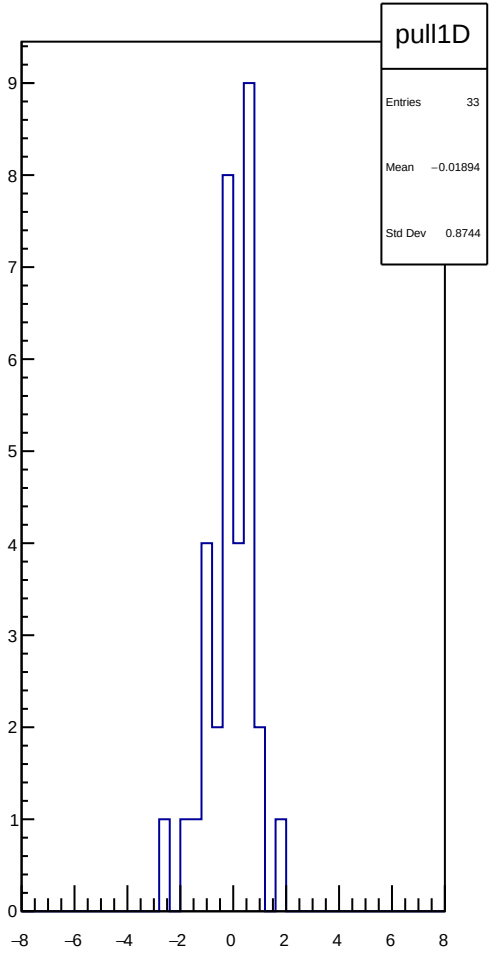

reg_asym_atr1_rms vs run
χ² / ndf 191.3 / 32
p0 2813 ± 3.482
3050
3000
2950
2900
2850
2800
2750
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

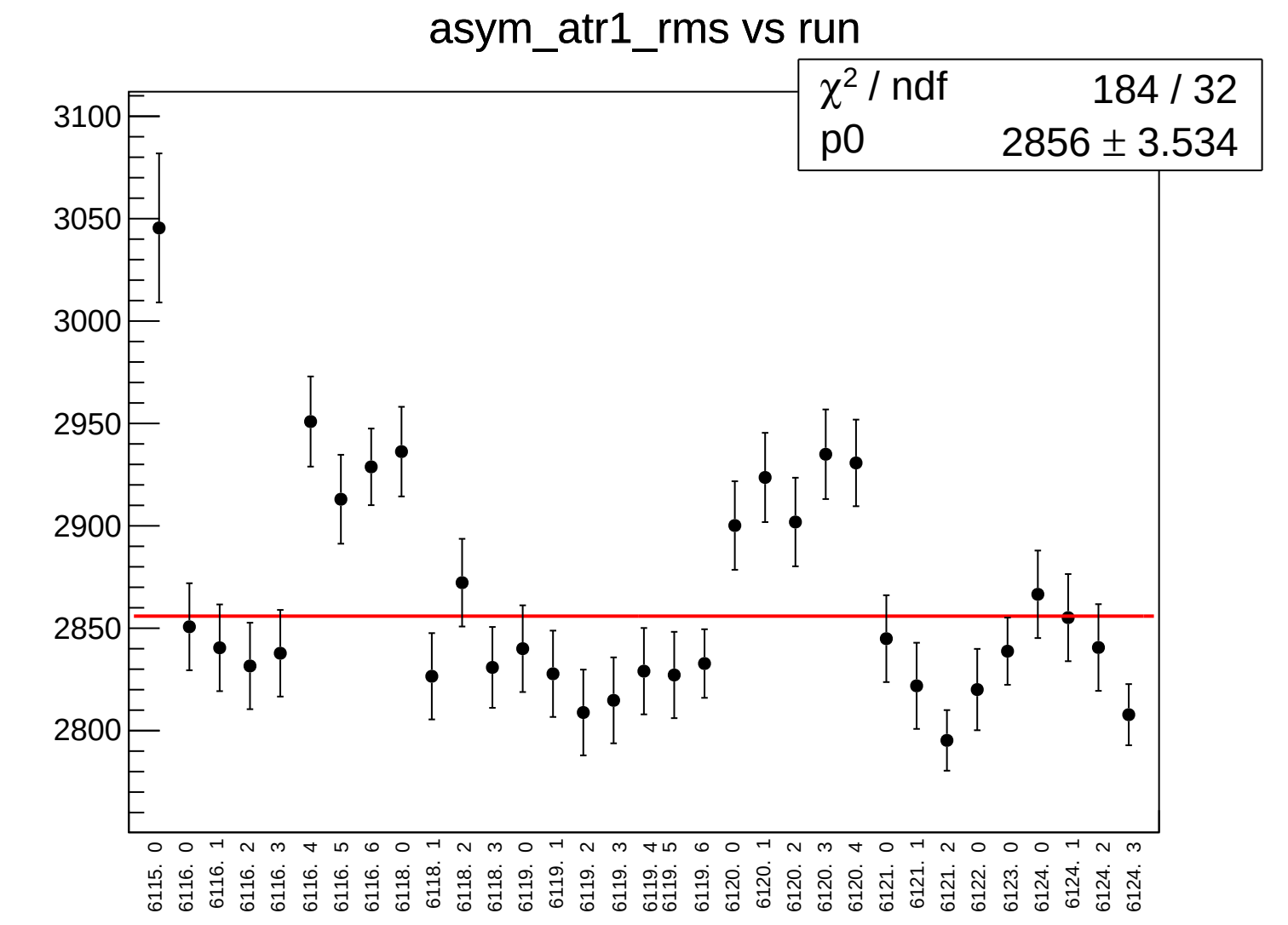

asym_atr1_correction_mean vs run
χ² / ndf 25.03 / 32
p0 −595.2 ± 854.6
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −2.584e+05
Std Dev 2.584e+05
1.5
1
0.5
0
−0.5
−1
−1.5

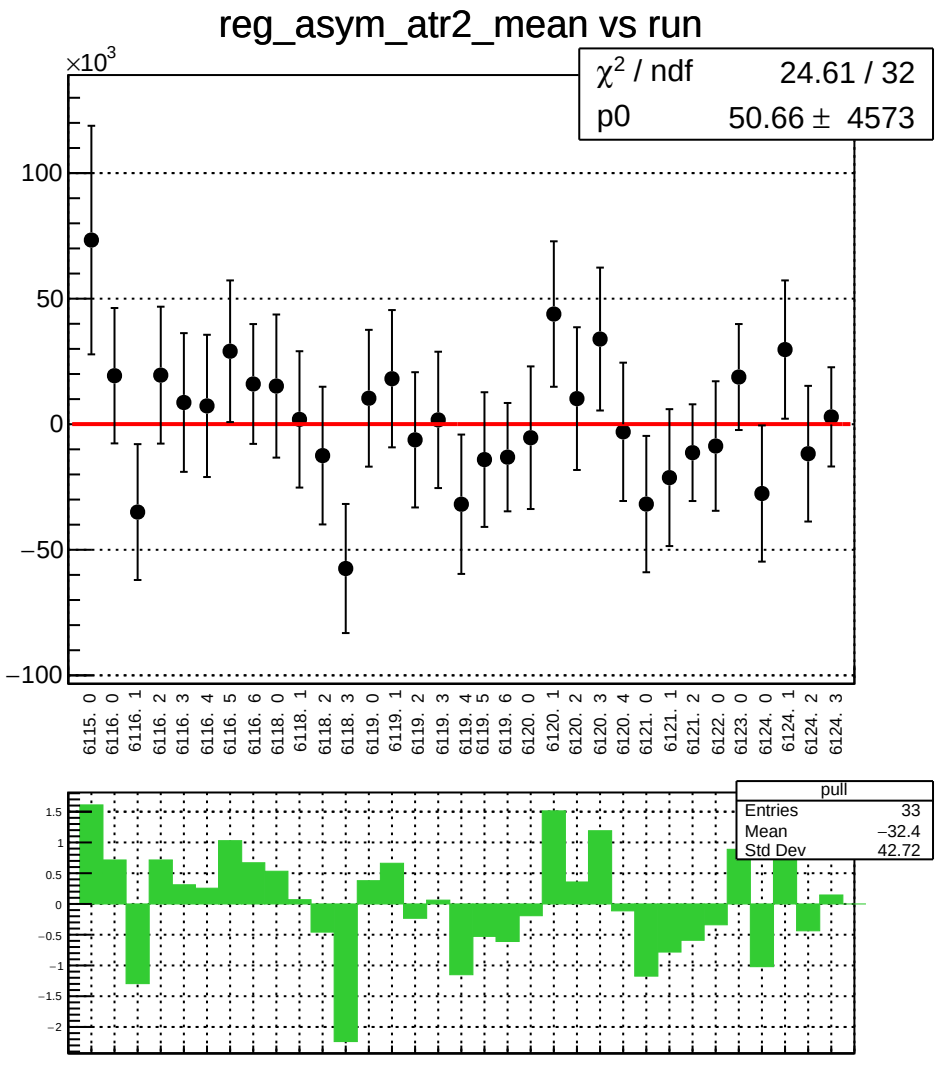

pull1D
Entries 33
Mean −7.153e−06
Std Dev 0.8709
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

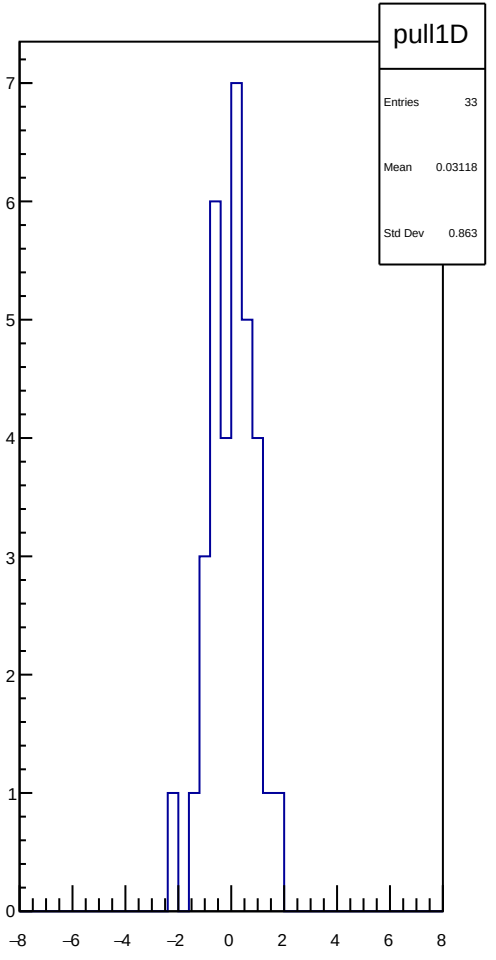

asym_atr1_correction_rms vs run
χ² / ndf 2075 / 32
p0 487.6 ± 0.6043
560
540
520
500
480
460
440
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

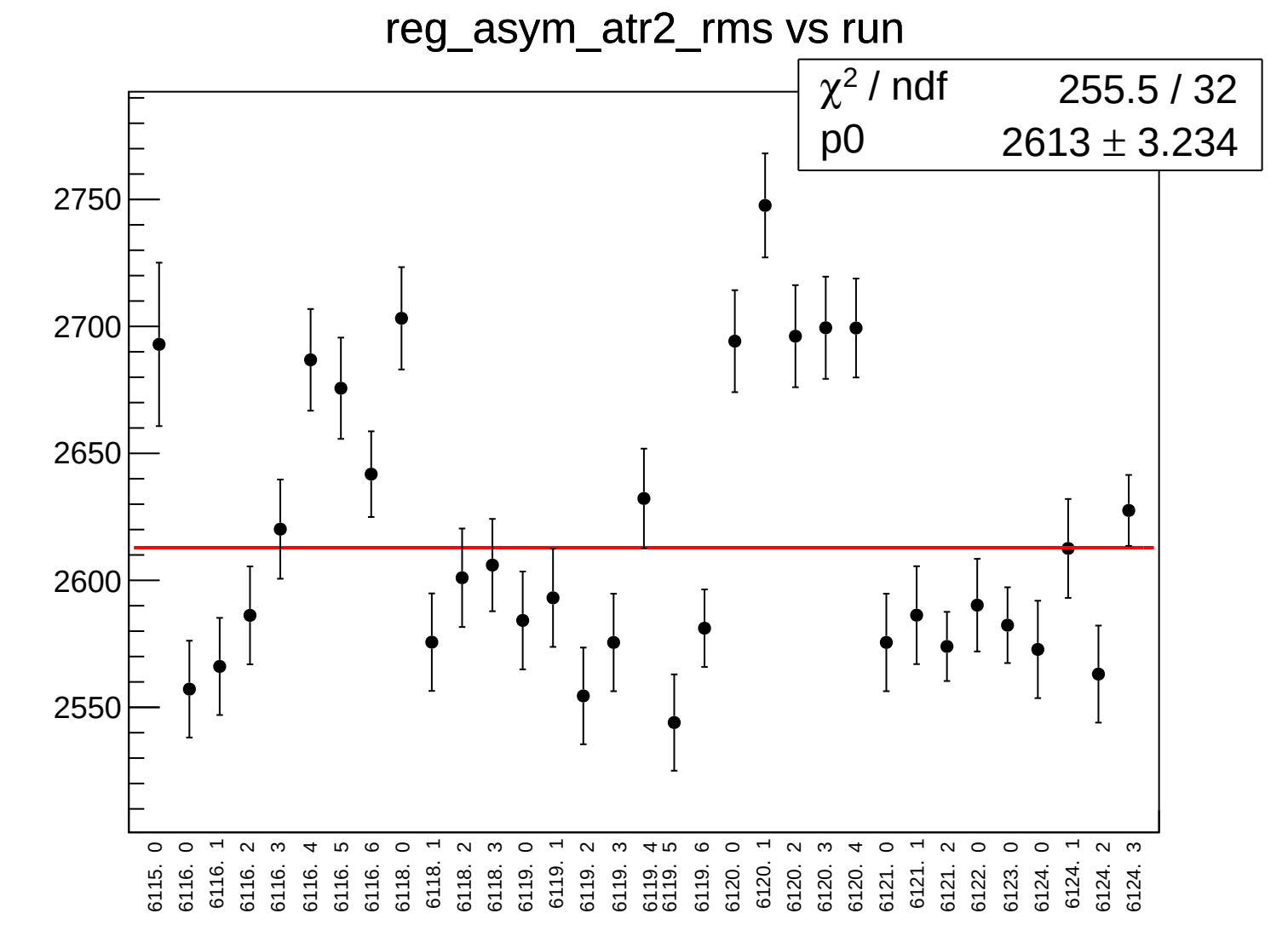

asym_atr1_mean vs run
×10^3
χ² / ndf 25.24 / 32
p0 −2487 ± 4998
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −64.2
Std Dev 81
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

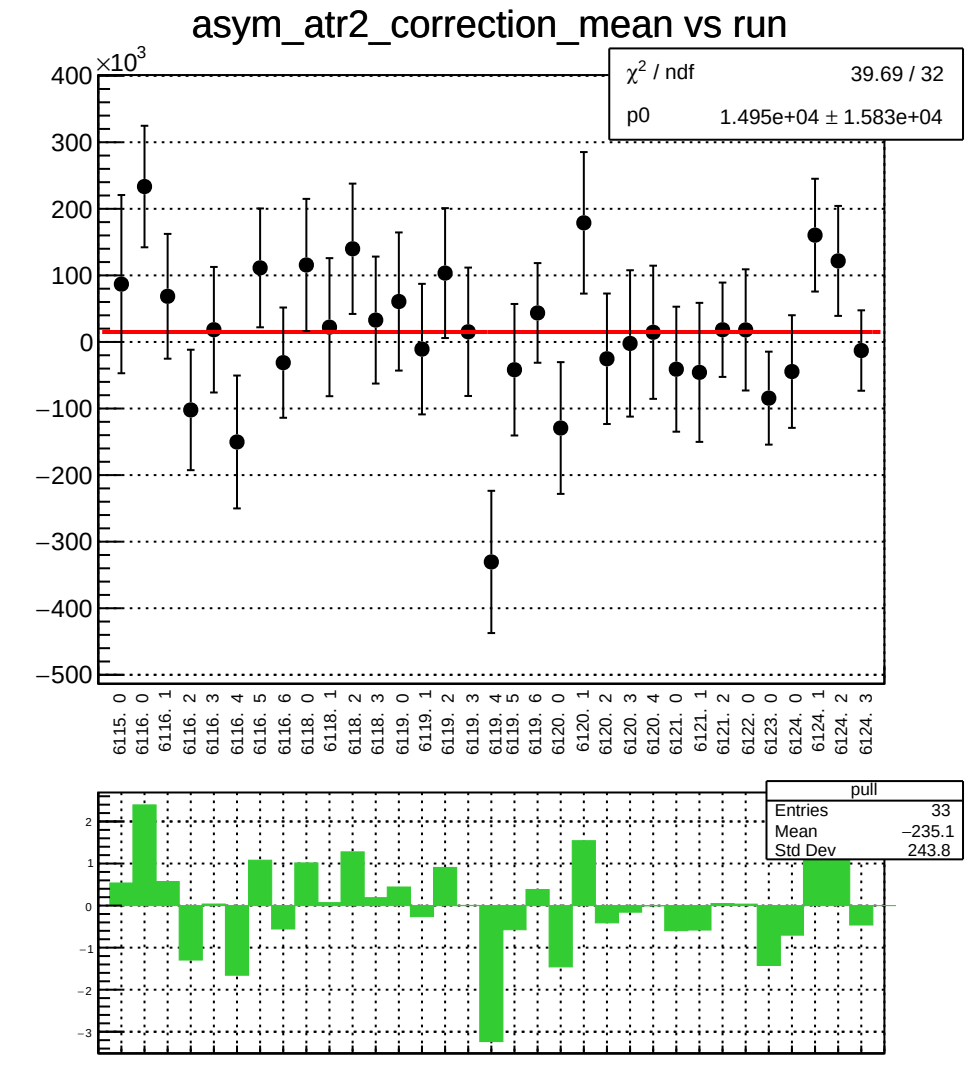

pull1D
Entries 33
Mean −0.01894
Std Dev 0.8744
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

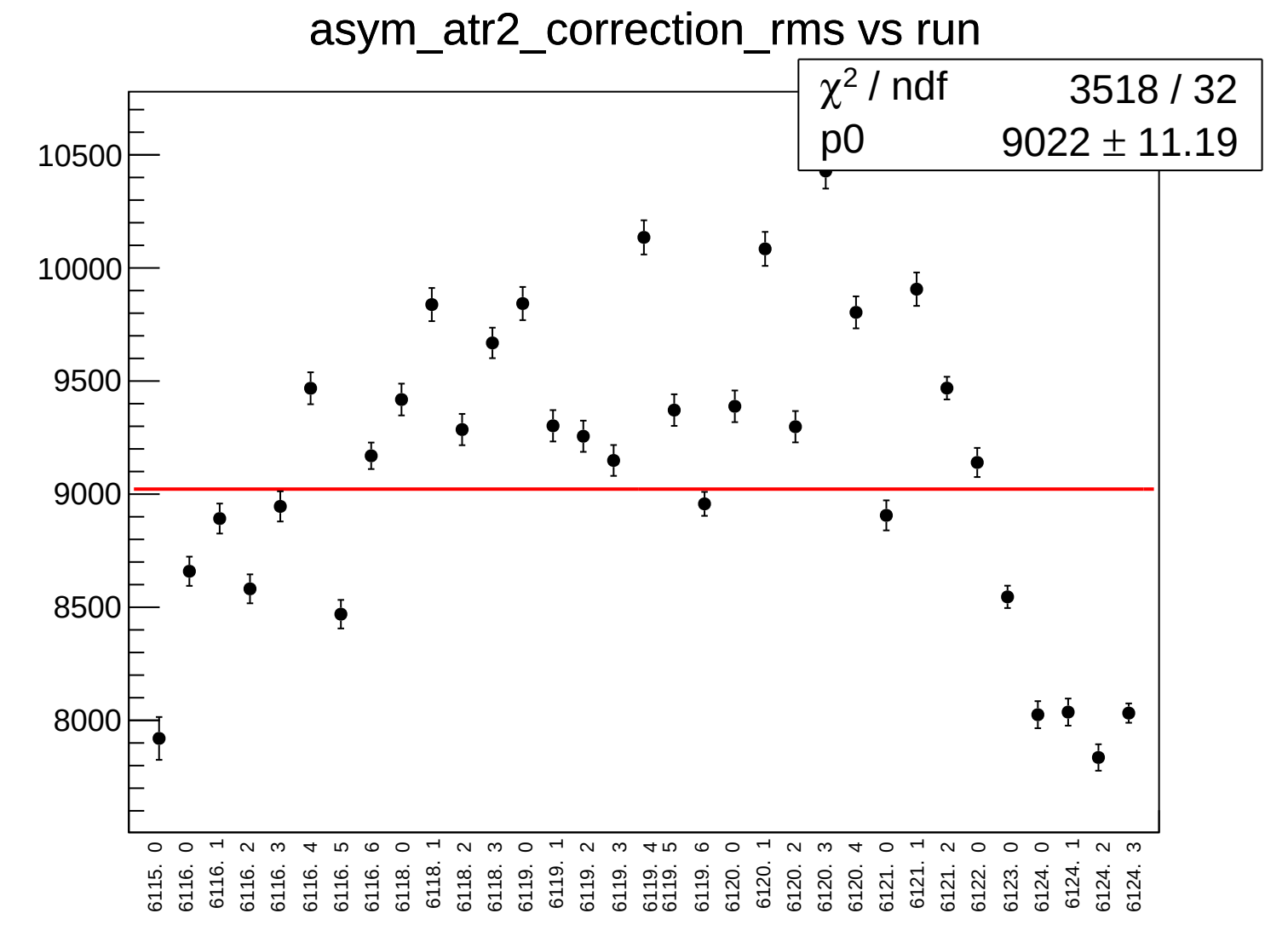

asym_atr1_rms vs run
χ² / ndf 184 / 32
p0 2856 ± 3.534
3100
3050
3000
2950
2900
2850
2800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

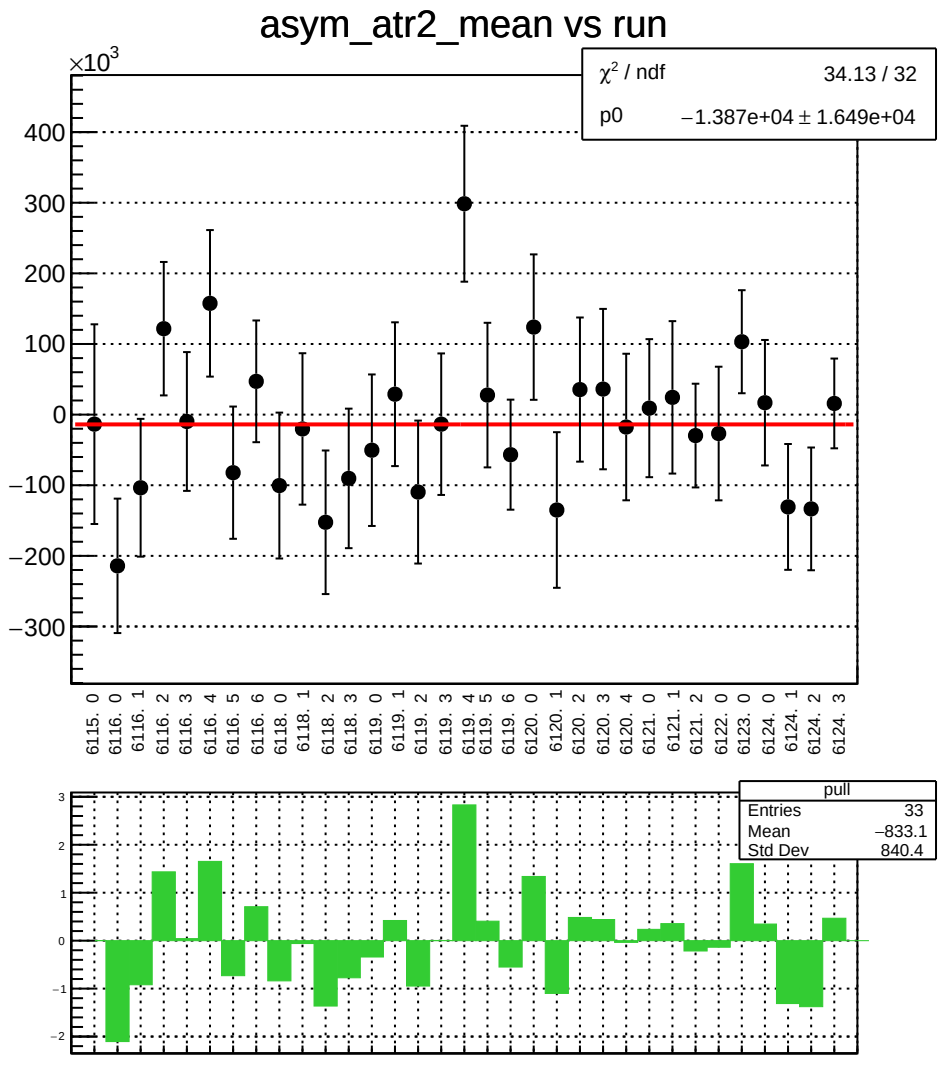

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 24.61 / 32
p0 50.66 ± 4573
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −32.4
Std Dev 42.72
1.5
1
0.5
0
−0.5
−1
−1.5
−2

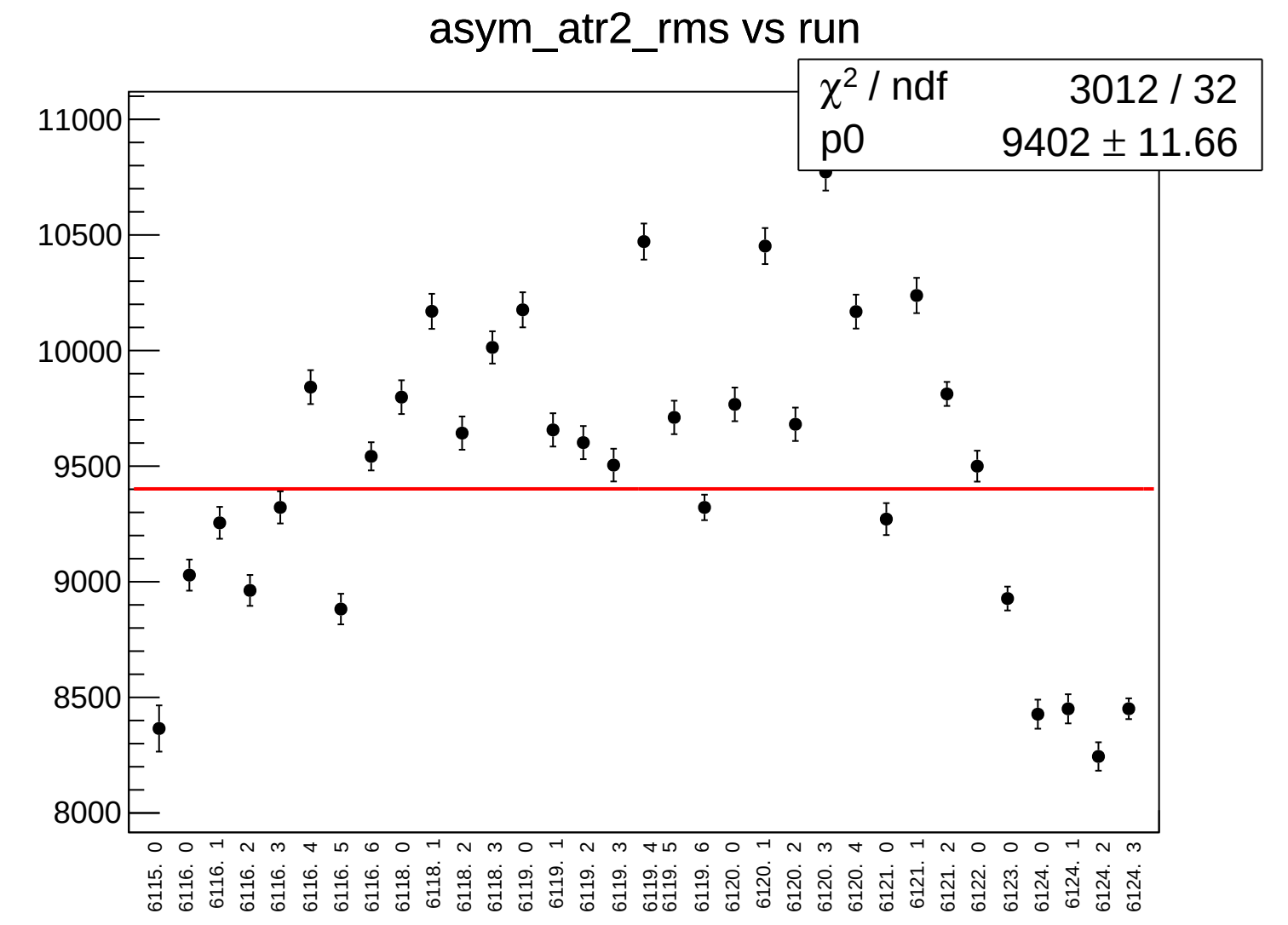

pull1D
Entries 33
Mean 0.03118
Std Dev 0.863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

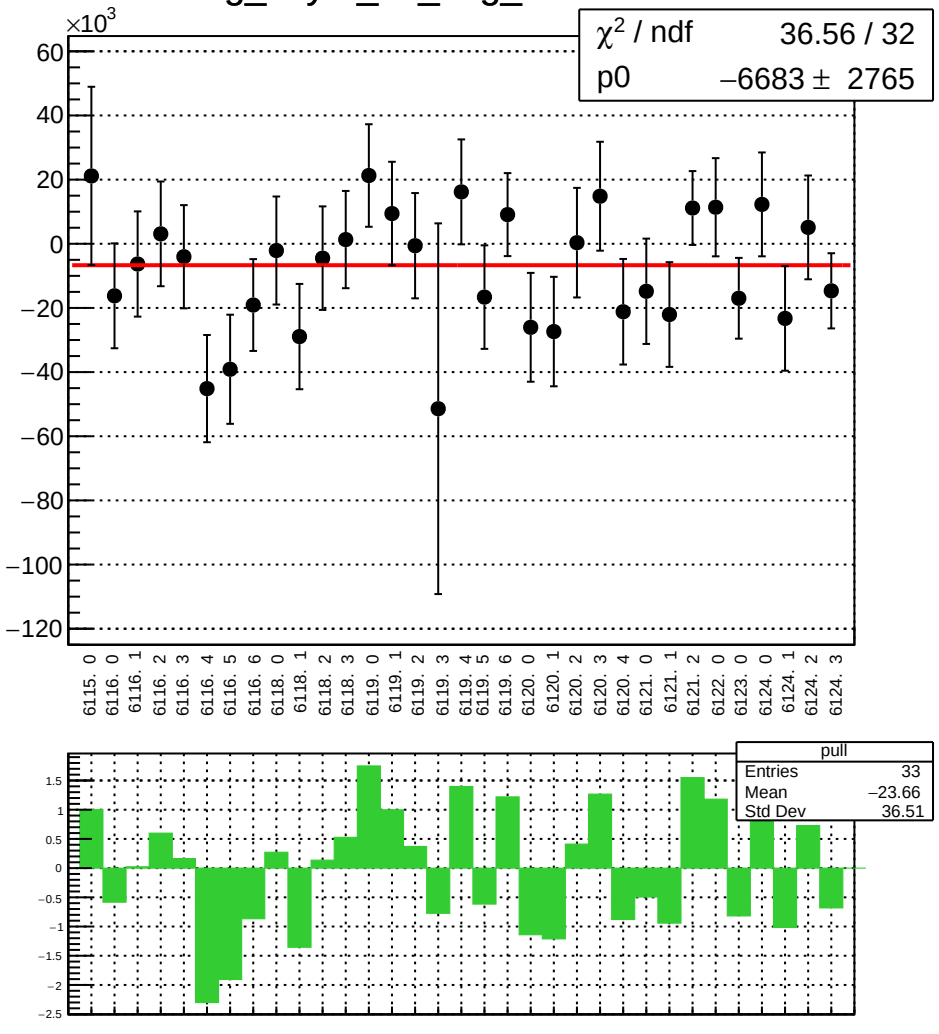

reg_asym_atr2_rms vs run
χ^2 / ndf 255.5 / 32
p0 2613 ± 3.234
2750
2700
2650
2600
2550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

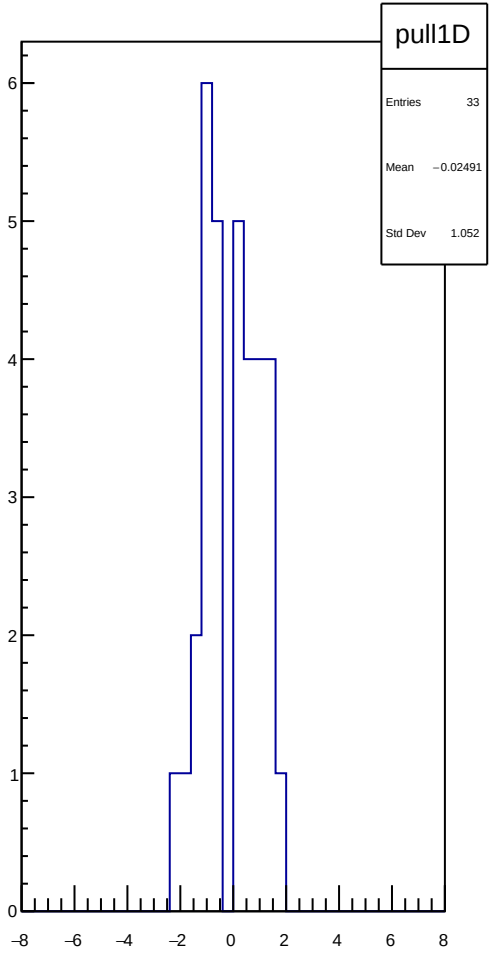

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 39.69 / 32
p0 1.495e+04 ± 1.583e+04
400
300
200
100
0
−100
−200
−300
−400
−500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −235.1
Std Dev 243.8
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.0053
Std Dev 1.097
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

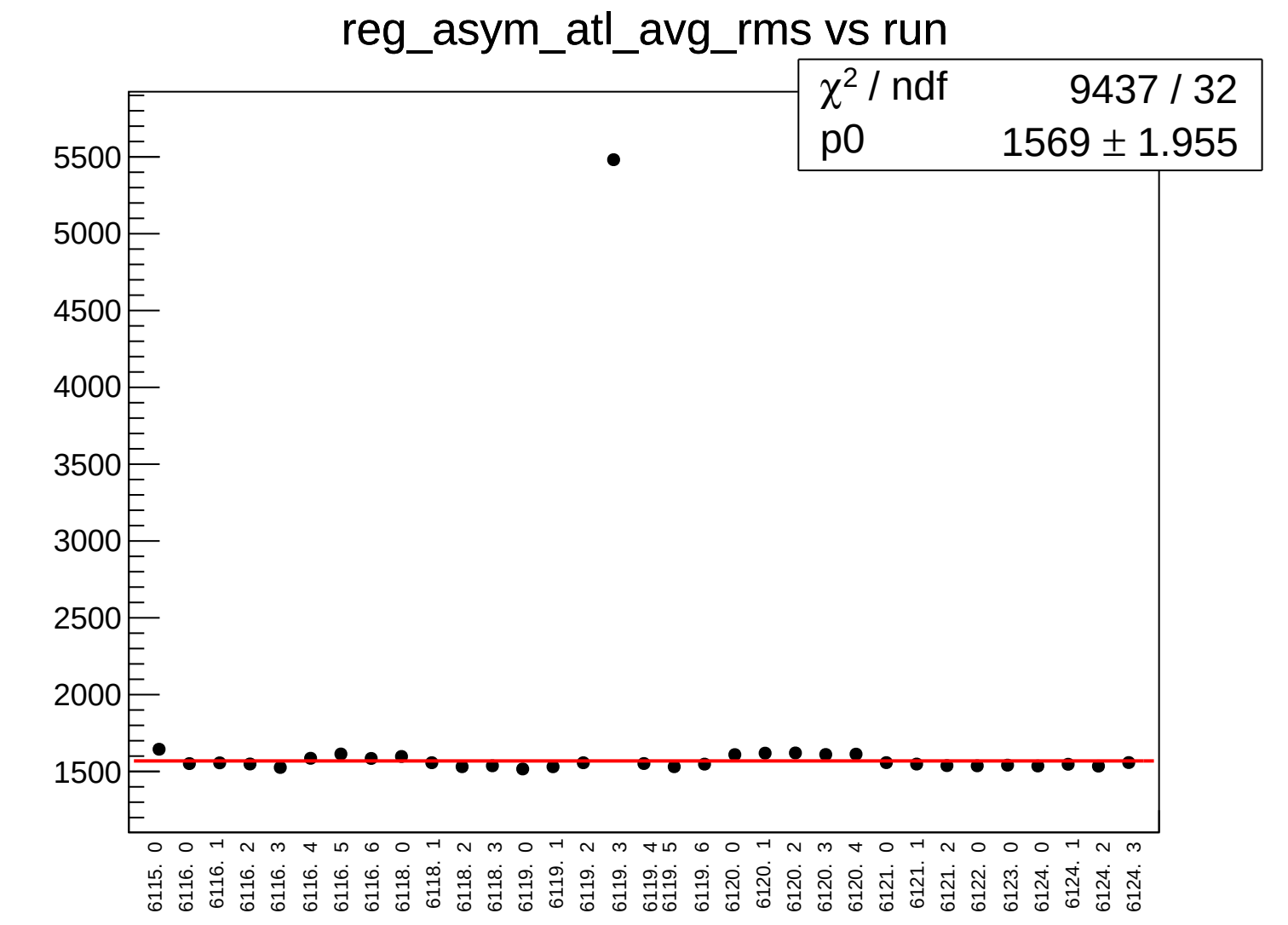

asym_atr2_correction_rms vs run
χ² / ndf 3518 / 32
p0 9022 ± 11.19
10500
10000
9500
9000
8500
8000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

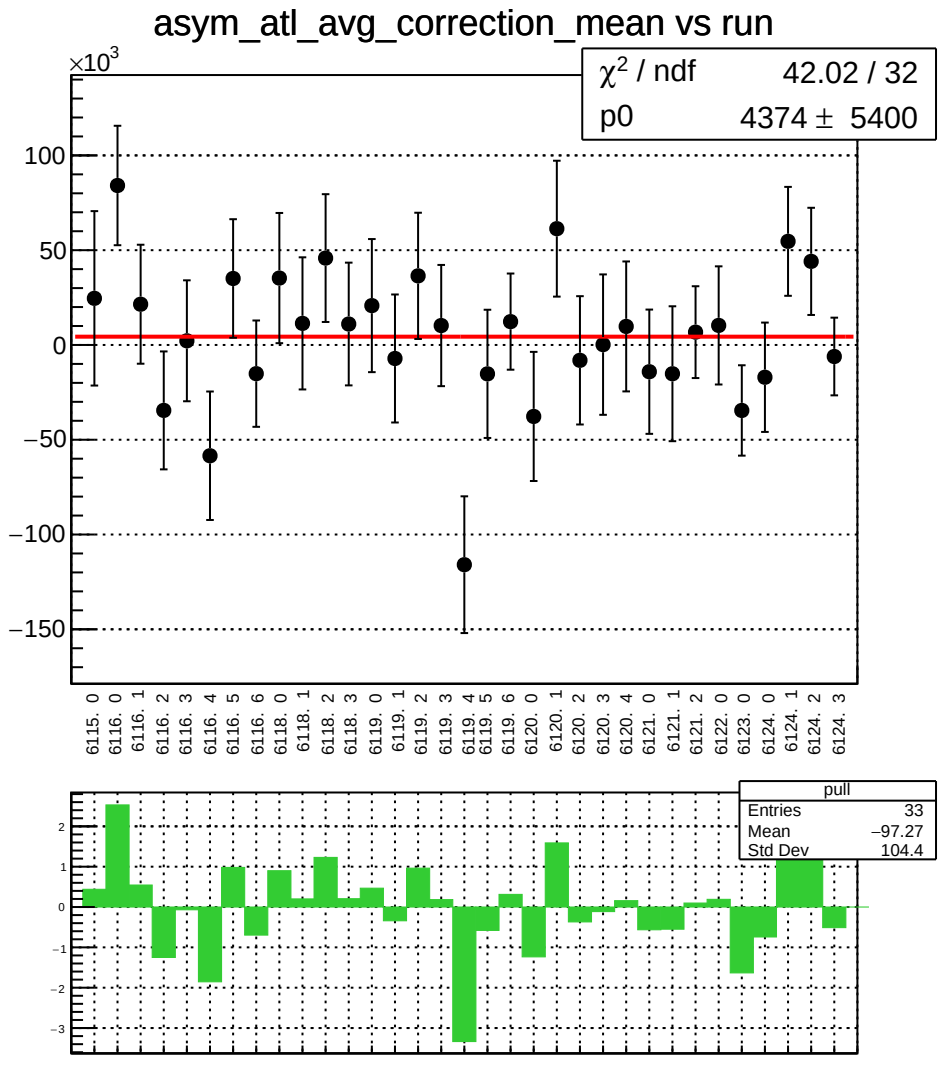

asym_atr2_mean vs run
×10^3
χ² / ndf 34.13 / 32
p0 −1.387e+04 ± 1.649e+04
400
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −833.1
Std Dev 840.4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.0009465
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

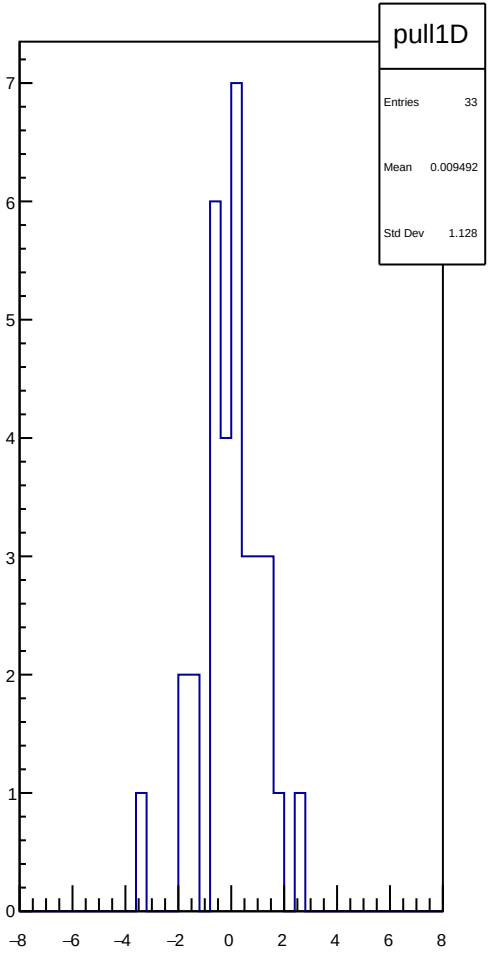

asym_atr2_rms vs run
χ² / ndf 3012 / 32
p0 9402 ± 11.66
11000
10500
10000
9500
9000
8500
8000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

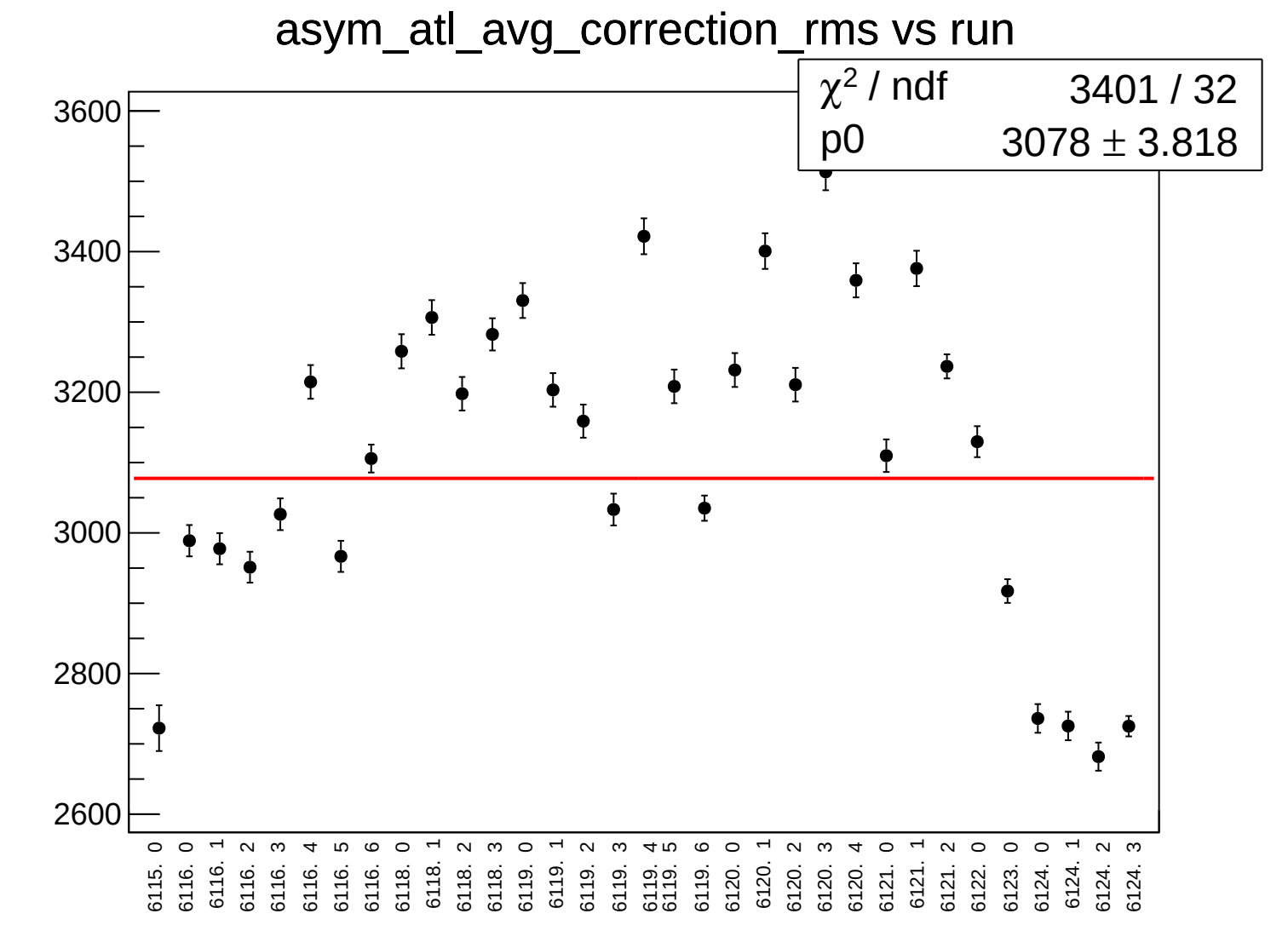

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 36.56 / 32
p0 −6683 ± 2765
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −23.66
Std Dev 36.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

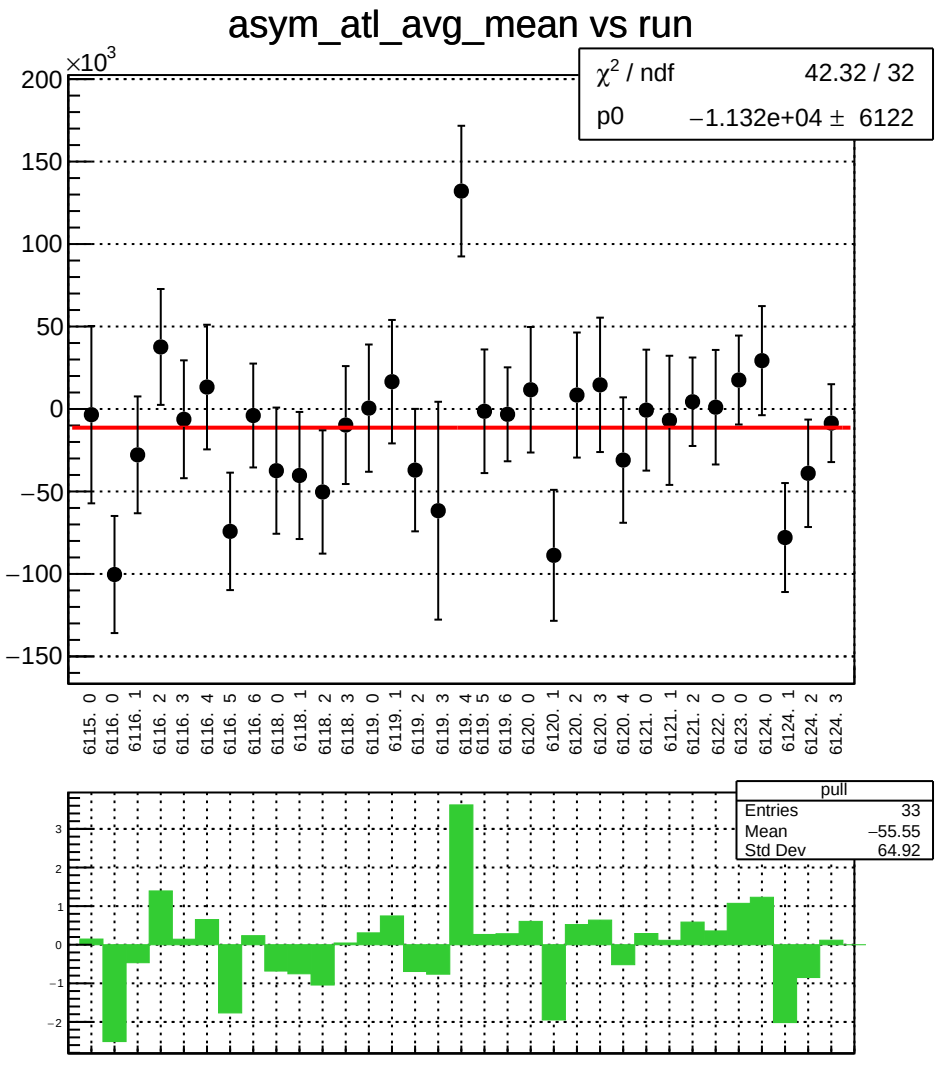

pull1D
Entries 33
Mean −0.02491
Std Dev 1.052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

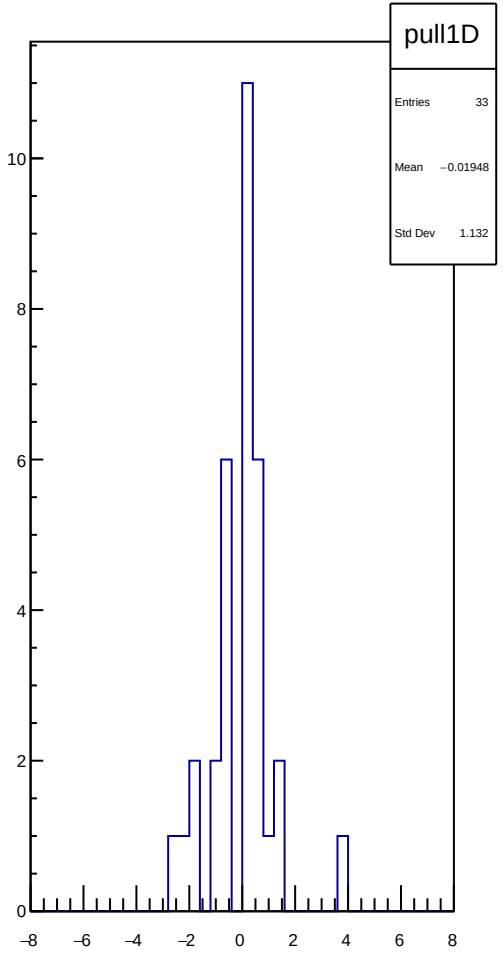

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9437 / 32
p0 1569 ± 1.955
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

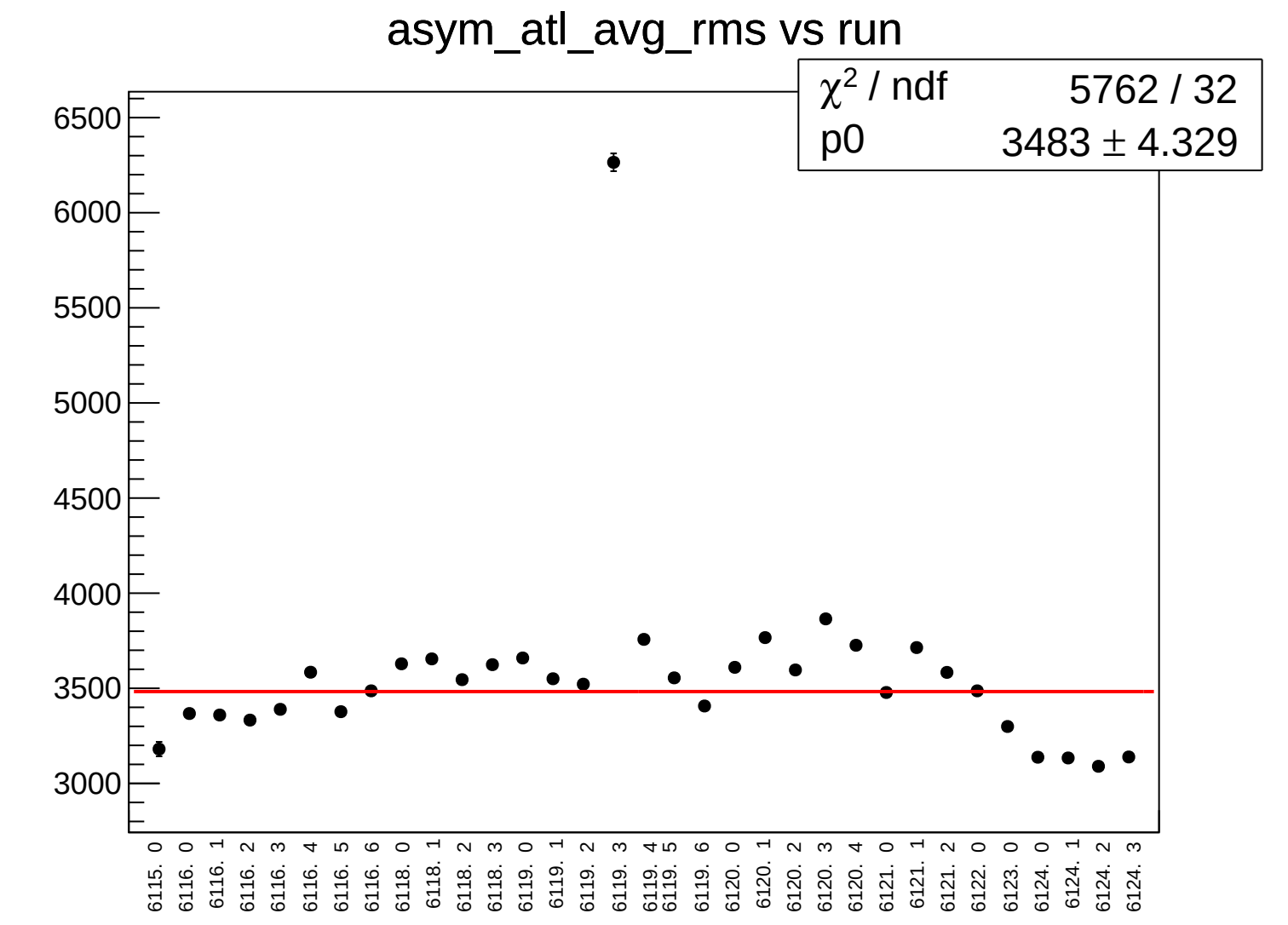

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 42.02 / 32
p0 4374 ± 5400
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −97.27
Std Dev 104.4
2
1
0
−1
−2
−3

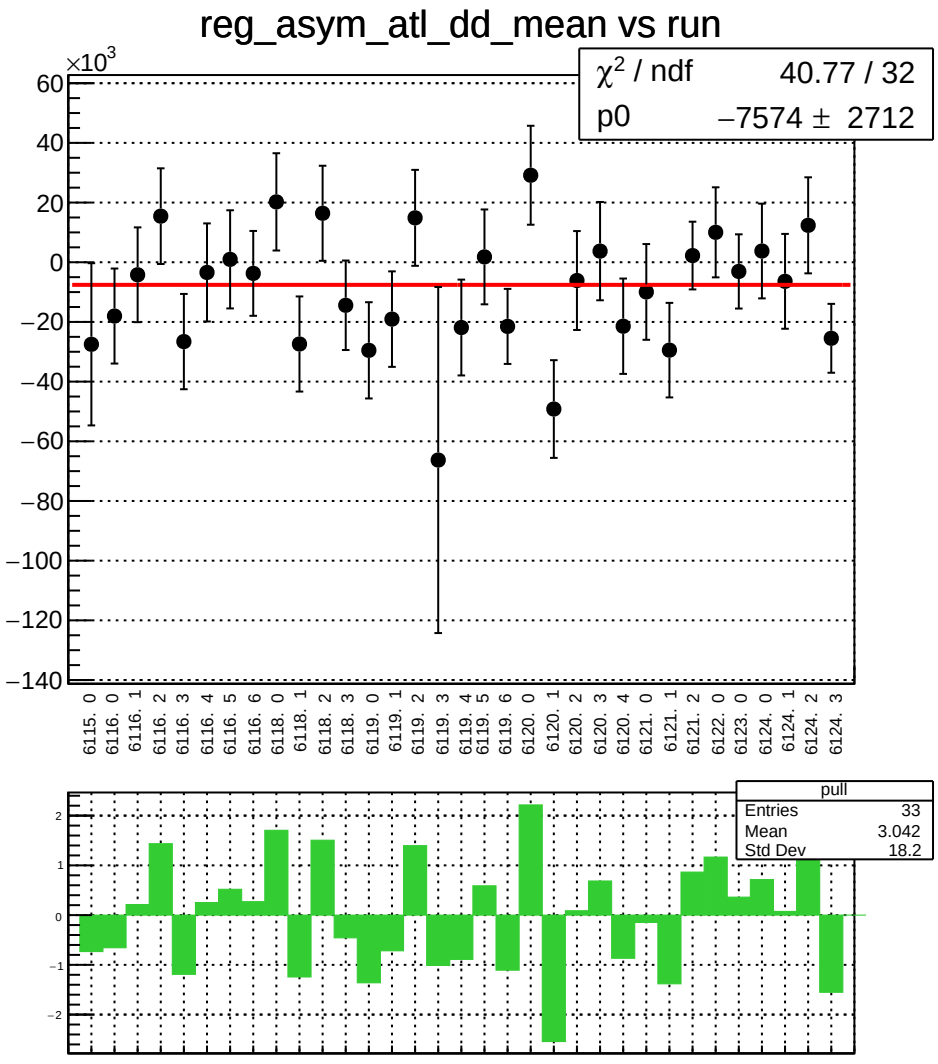

pull1D
Entries 33
Mean 0.009492
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

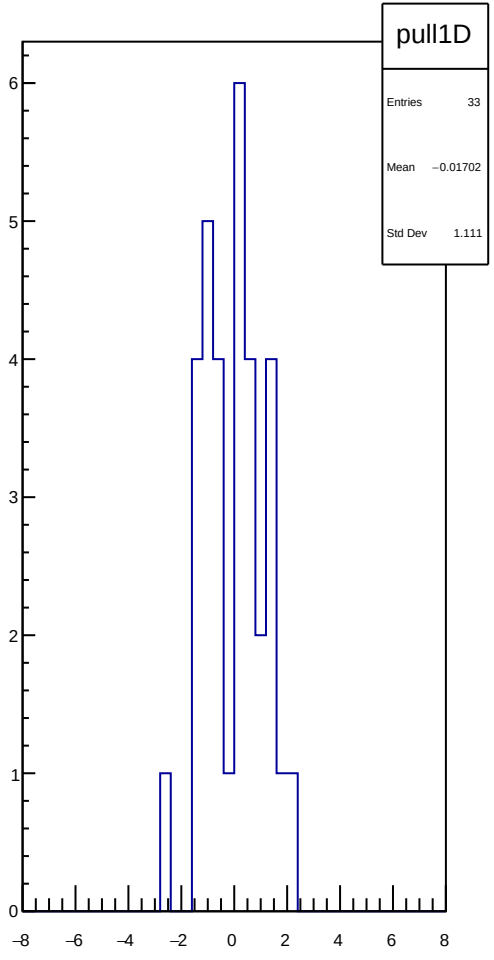

asym_atl_avg_correction_rms vs run
χ² / ndf 3401 / 32
p0 3078 ± 3.818
3600
3400
3200
3000
2800
2600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

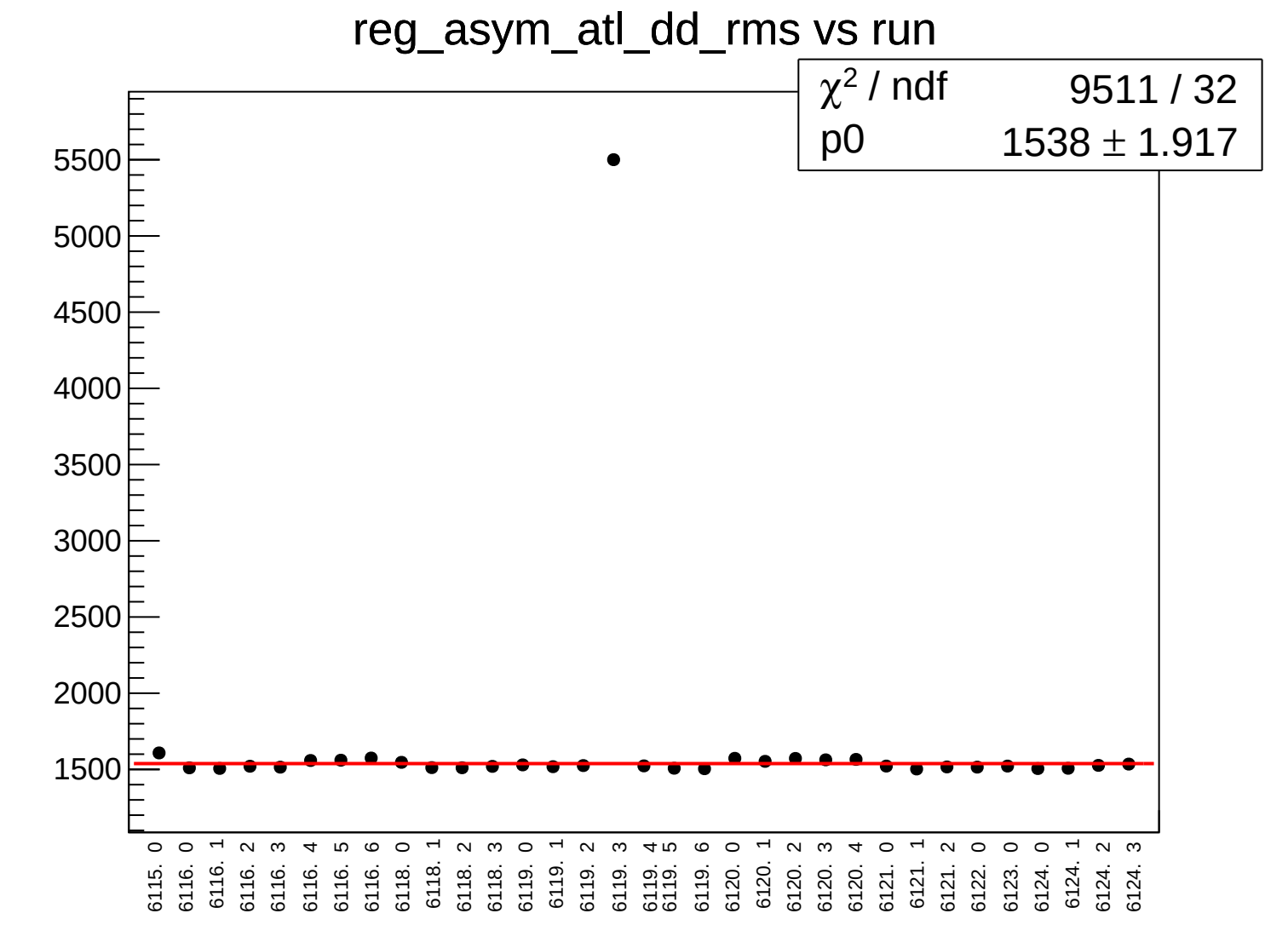

asym_atl_avg_mean vs run
×10^3
χ² / ndf 42.32 / 32
p0 −1.132e+04 ± 6122
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −55.55
Std Dev 64.92
3
2
1
0
−1
−2

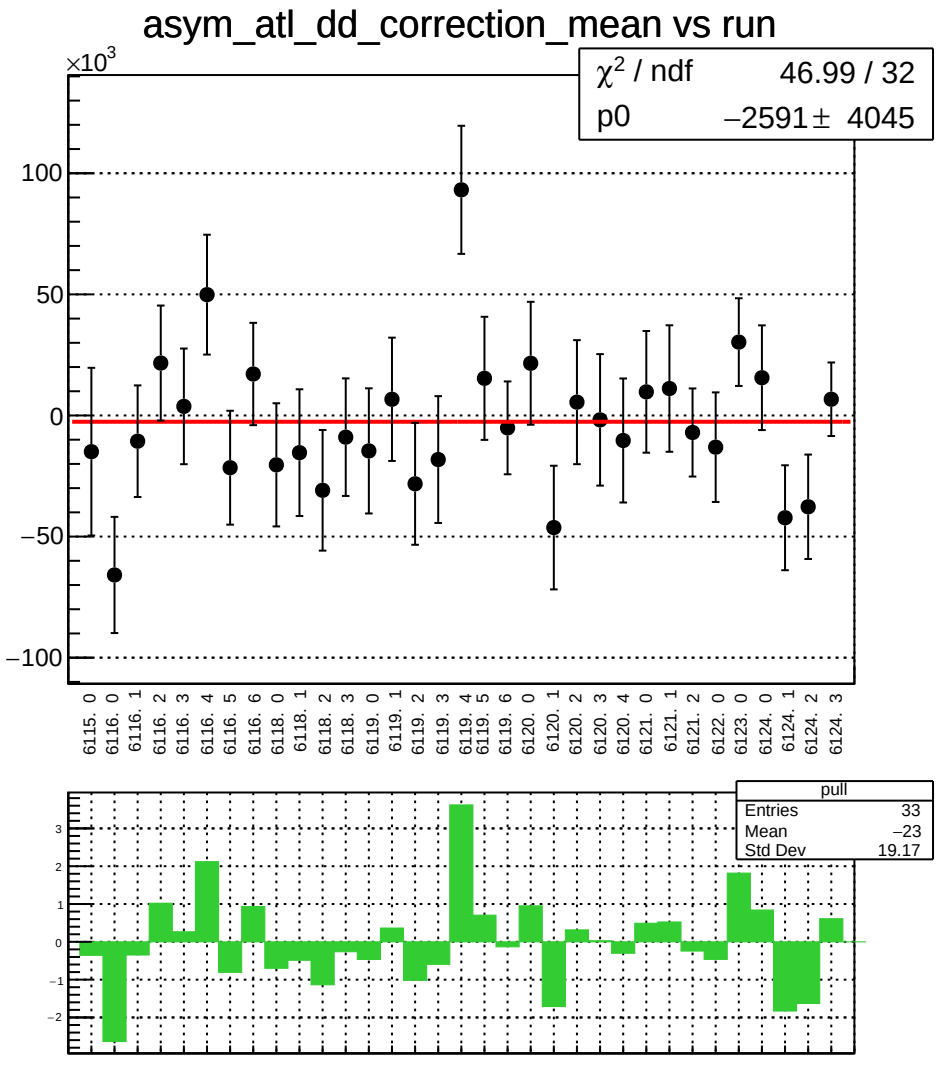

pull1D
Entries 33
Mean −0.01948
Std Dev 1.132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

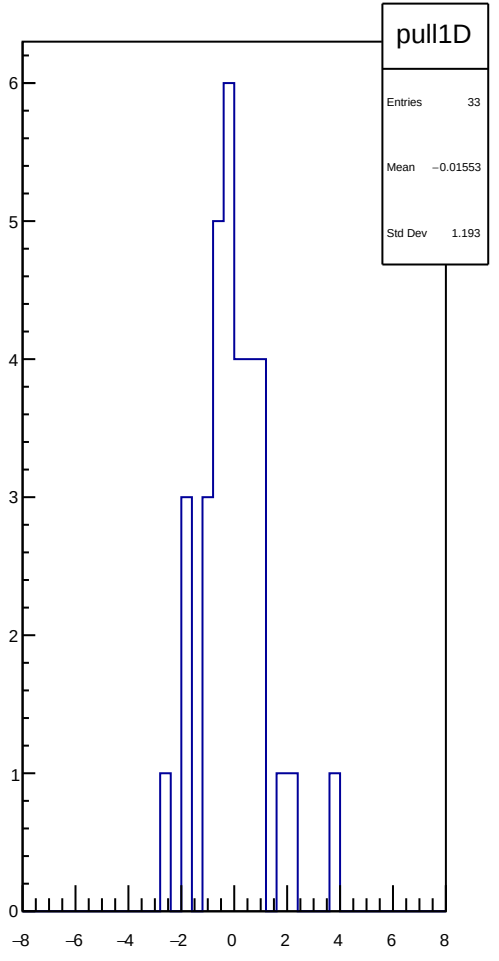

asym_atl_avg_rms vs run
χ² / ndf 5762 / 32
p0 3483 ± 4.329
6500
6000
5500
5000
4500
4000
3500
3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

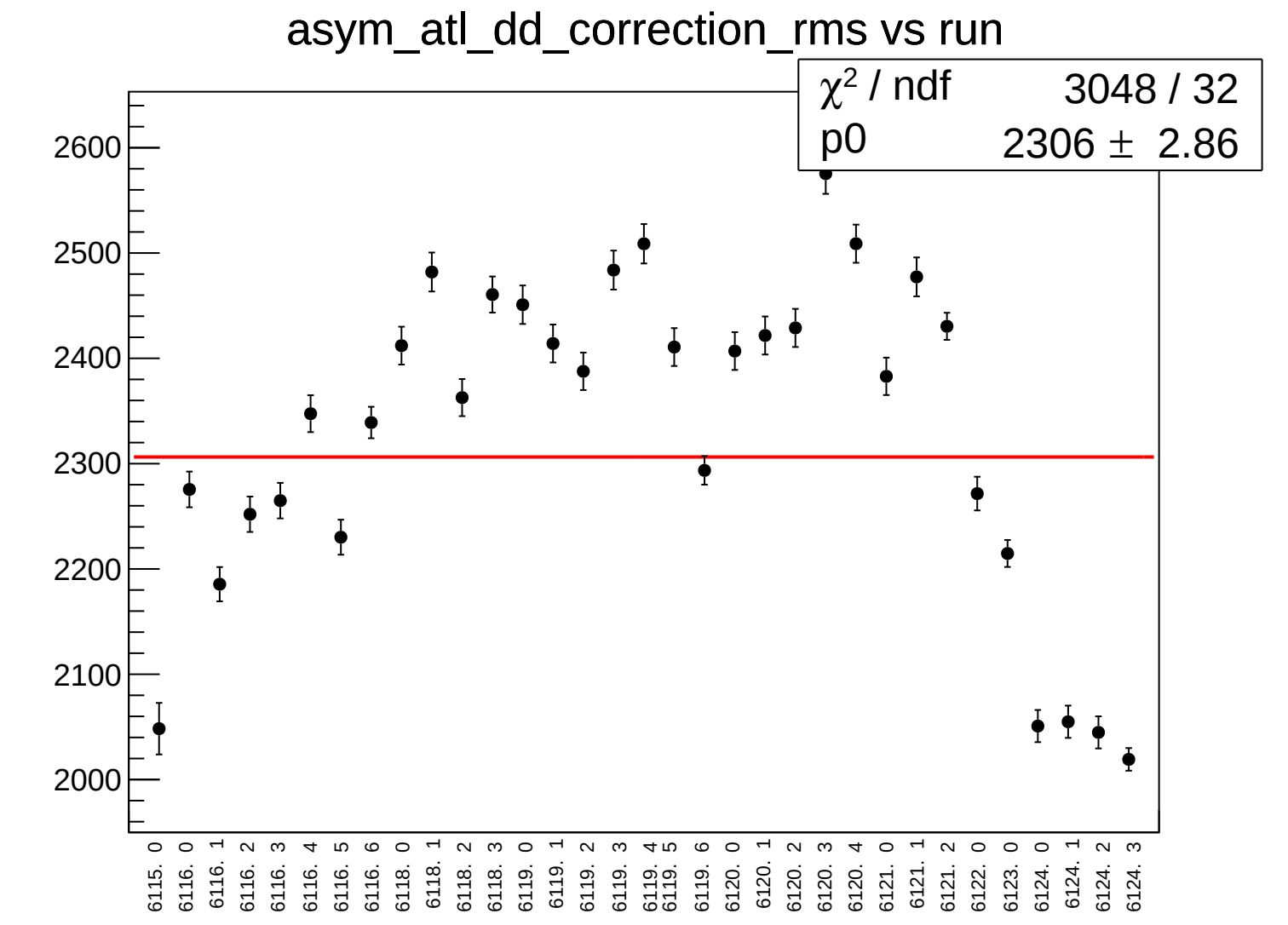

reg_asym_atl_dd_mean vs run
χ² / ndf 40.77 / 32
p0 −7574 ± 2712
×10³
pull
Entries 33
Mean 3.042
Std Dev 18.2

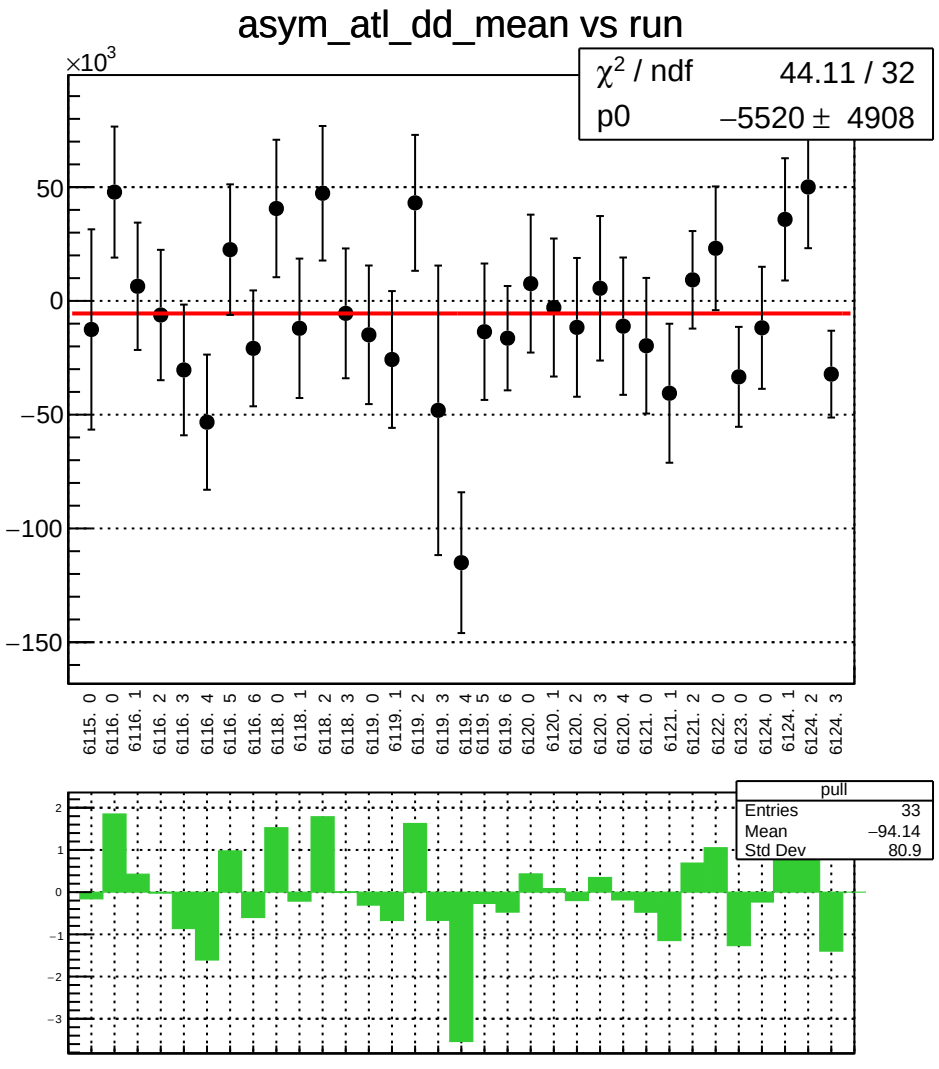

pull1D
Entries 33
Mean −0.01702
Std Dev 1.111

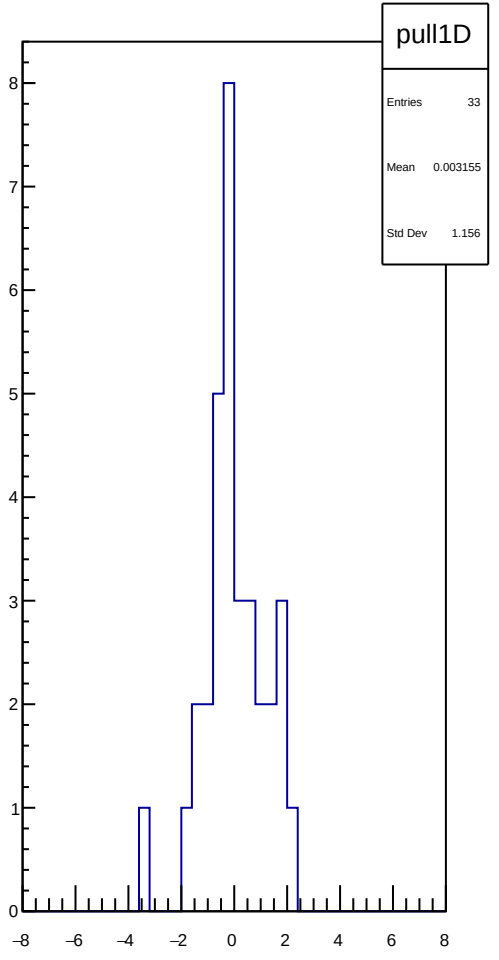

reg_asym_atl_dd_rms vs run
χ² / ndf 9511 / 32
p0 1538 ± 1.917
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

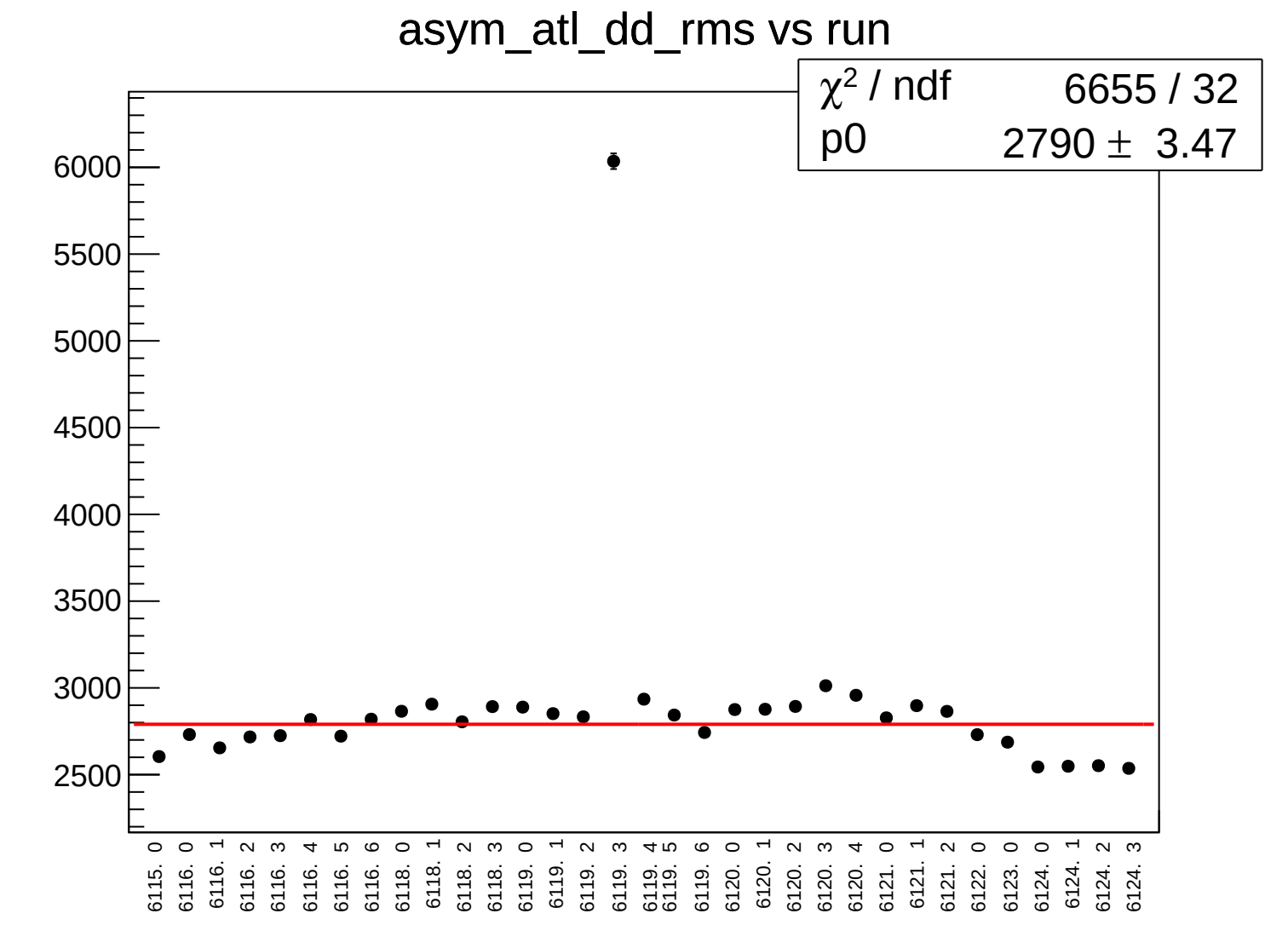

asym_atl_dd_correction_mean vs run
χ² / ndf 46.99 / 32
p0 −2591 ± 4045
×10³
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −23
Std Dev 19.17
3
2
1
0
−1
−2

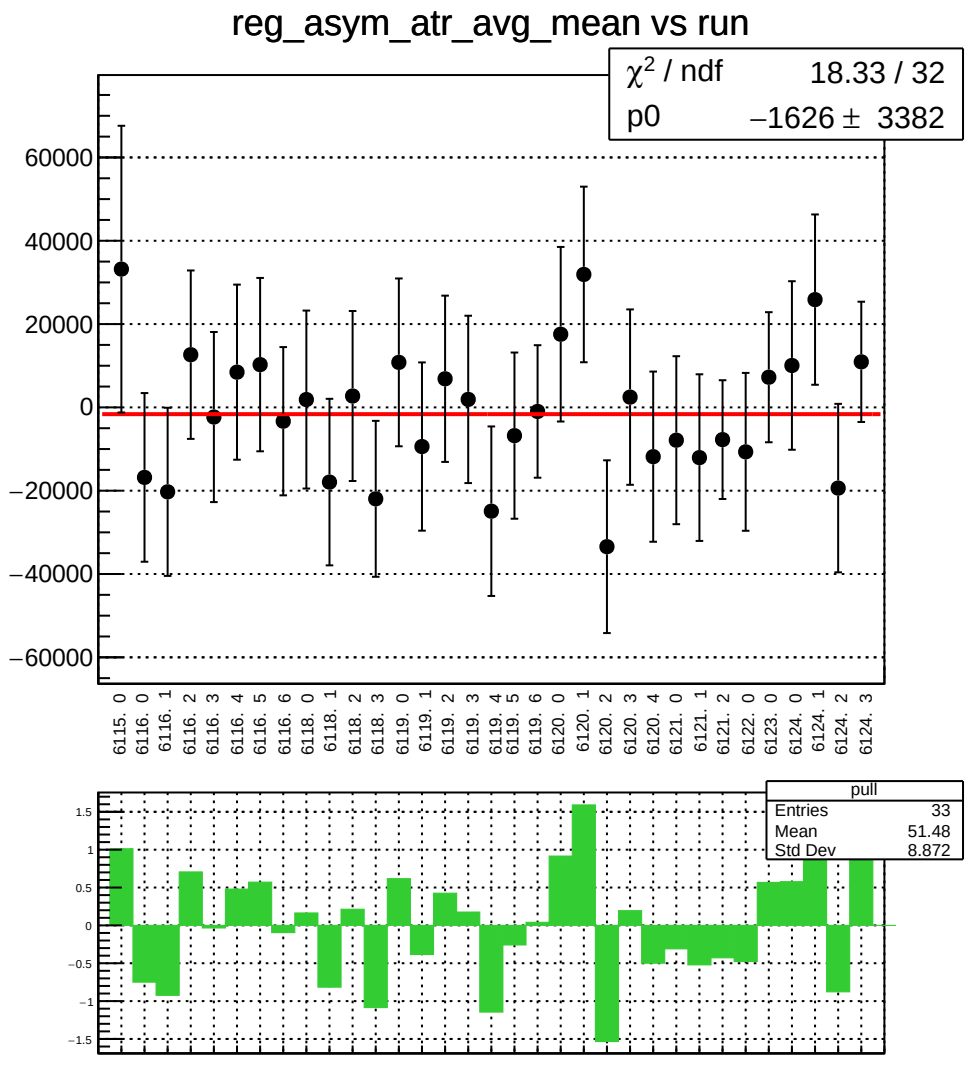

pull1D
Entries 33
Mean −0.01553
Std Dev 1.193
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

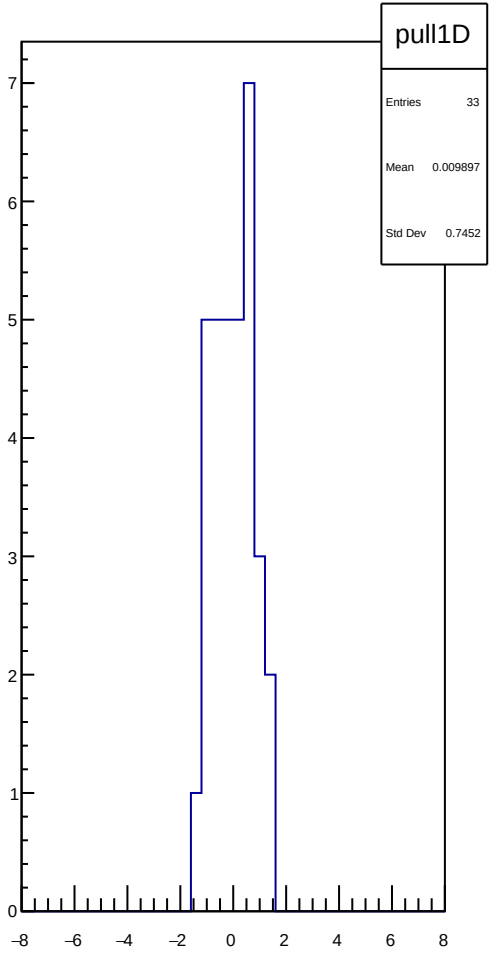

asym_atl_dd_correction_rms vs run
χ² / ndf 3048 / 32
p0 2306 ± 2.86
2600
2500
2400
2300
2200
2100
2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

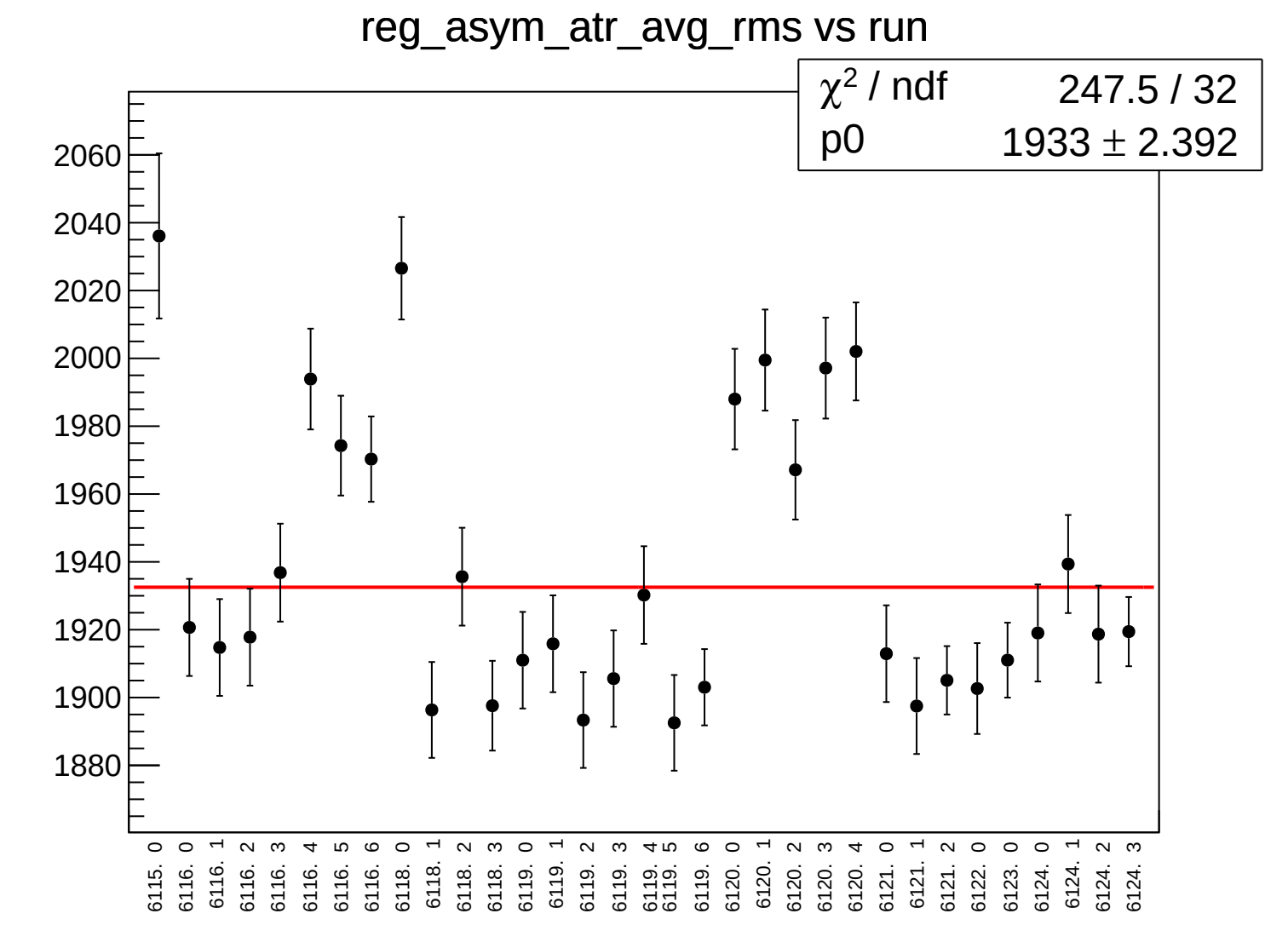

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 44.11 / 32
p0 −5520 ± 4908
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −94.14
Std Dev 80.9
2
1
0
−1
−2
−3

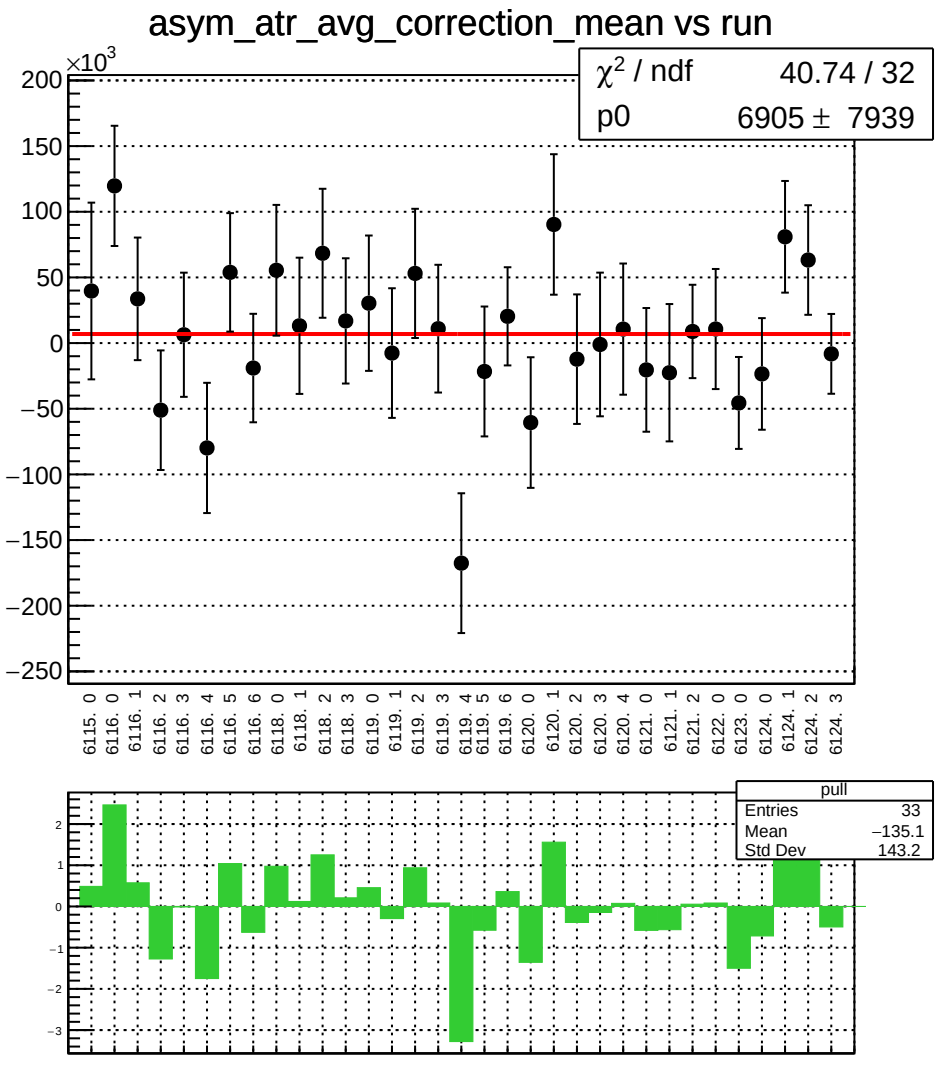

pull1D
Entries 33
Mean 0.003155
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

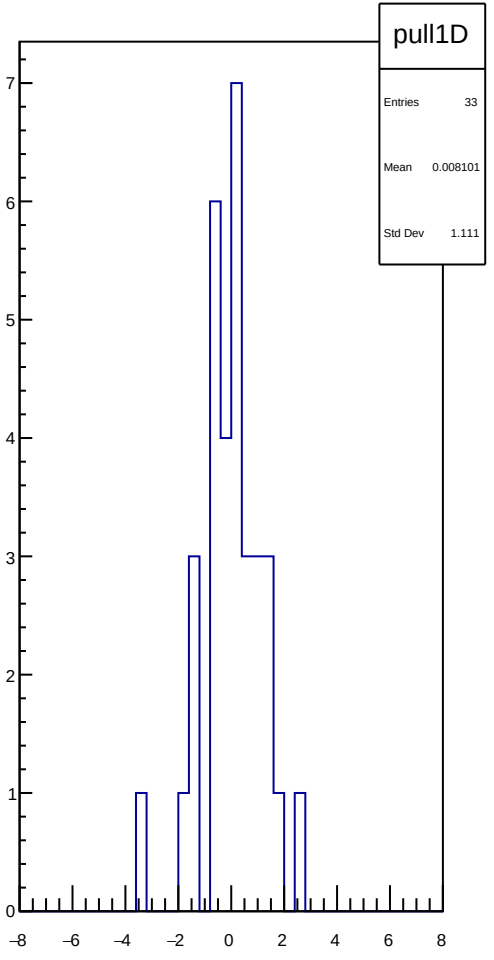

asym_atl_dd_rms vs run
χ² / ndf 6655 / 32
p0 2790 ± 3.47
6000
5500
5000
4500
4000
3500
3000
2500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

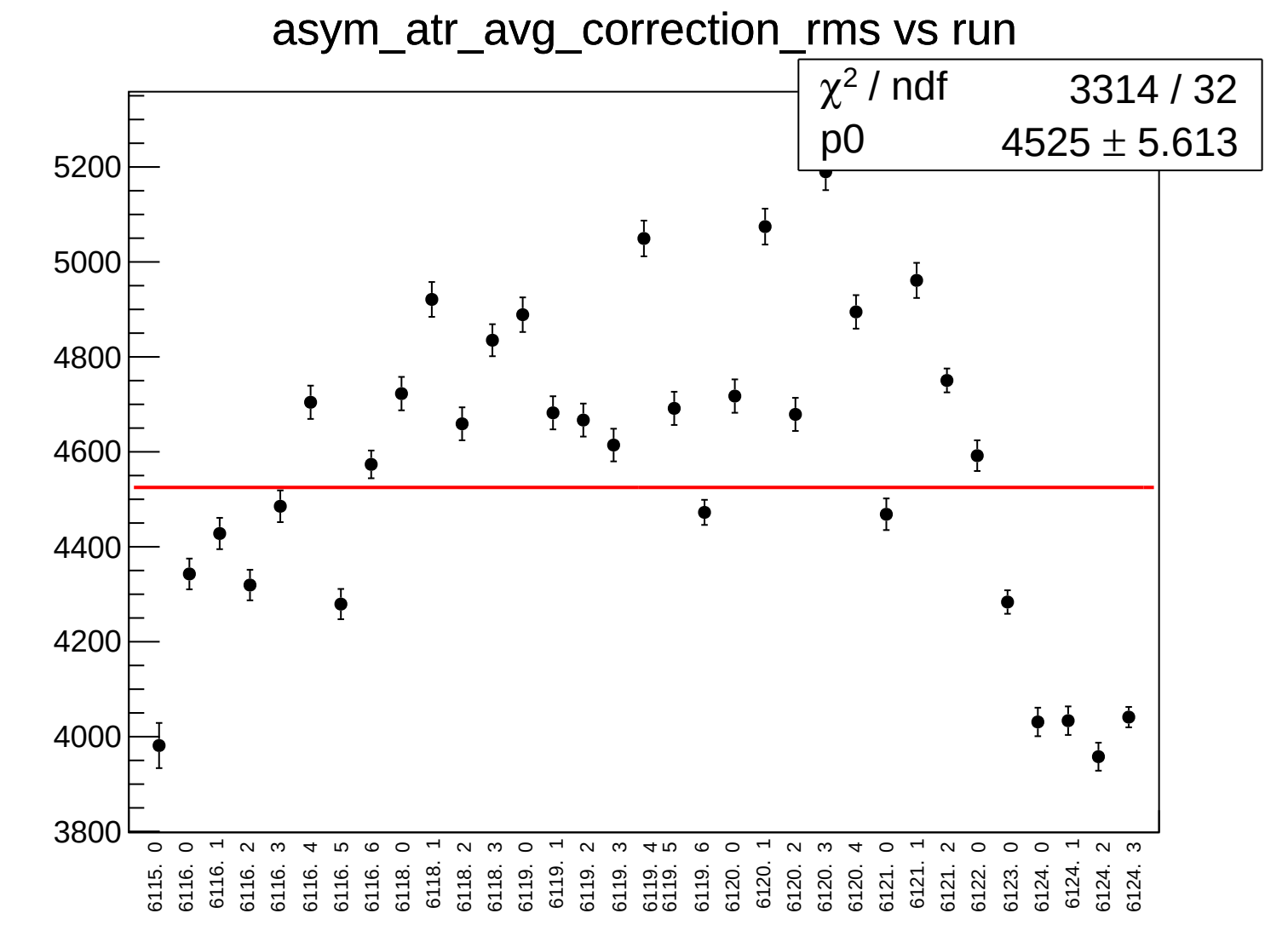

reg_asym_atr_avg_mean vs run
χ² / ndf 18.33 / 32
p0 −1626 ± 3382
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.48
Std Dev 8.872
1.5
1
0.5
0
−0.5
−1
−1.5

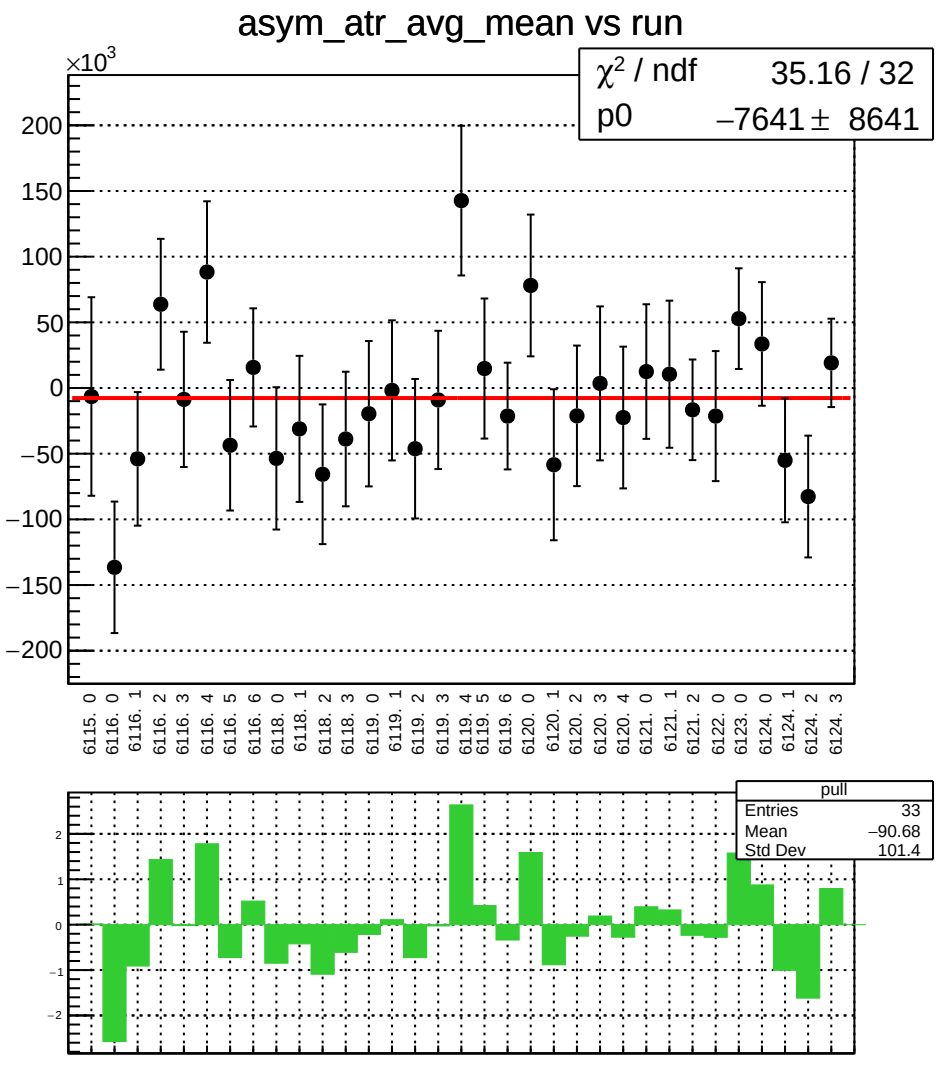

pull1D
Entries 33
Mean 0.009897
Std Dev 0.7452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

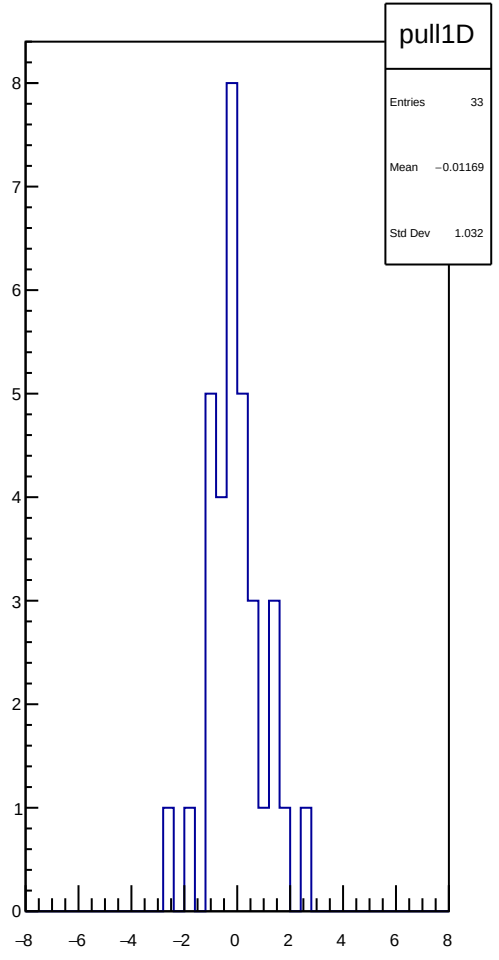

reg_asym_atr_avg_rms vs run
χ² / ndf 247.5 / 32
p0 1933 ± 2.392
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

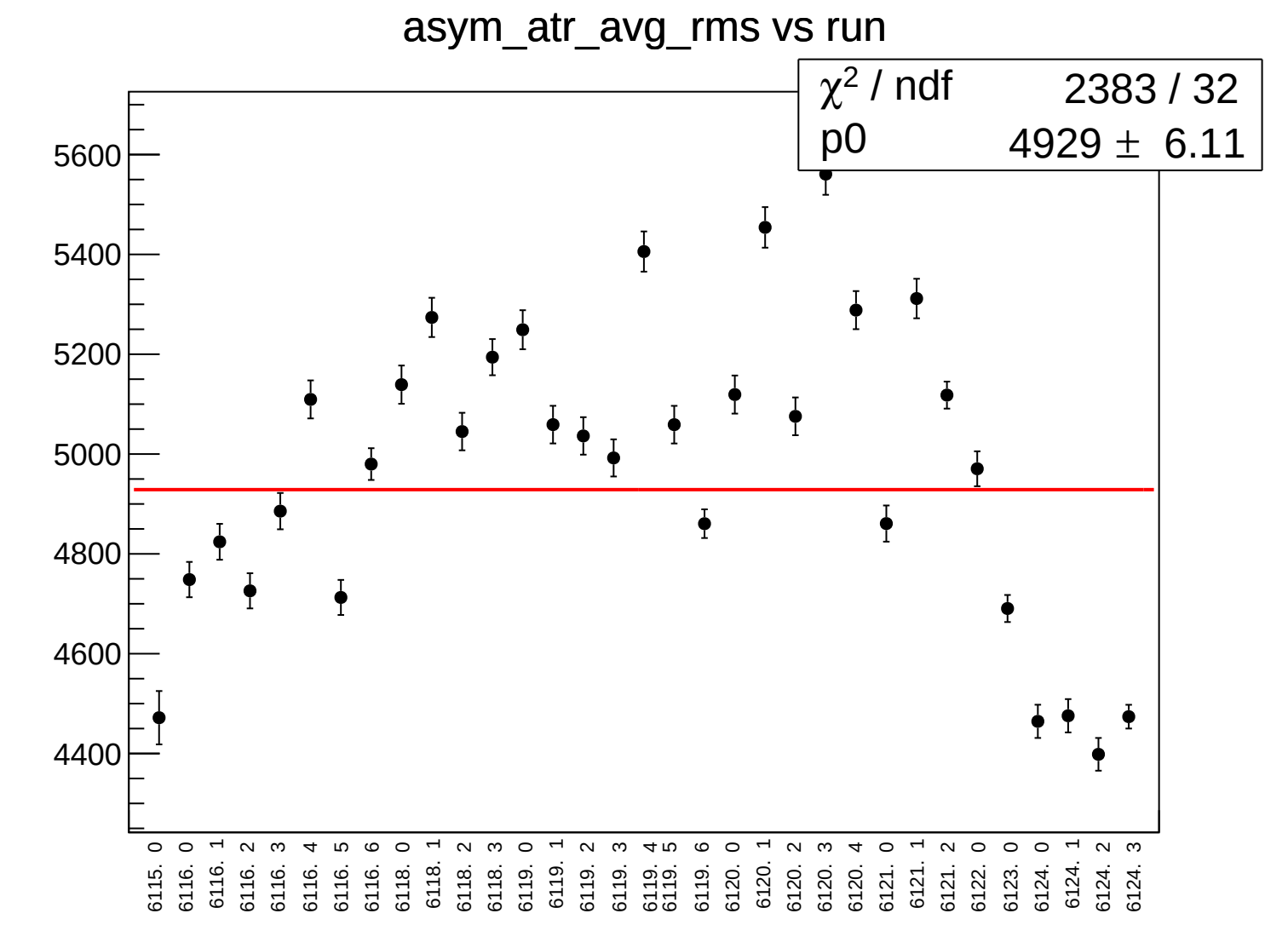

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.74 / 32
p0 6905 ± 7939
200
150
100
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −135.1
Std Dev 143.2
2
1
0
−1
−2
−3

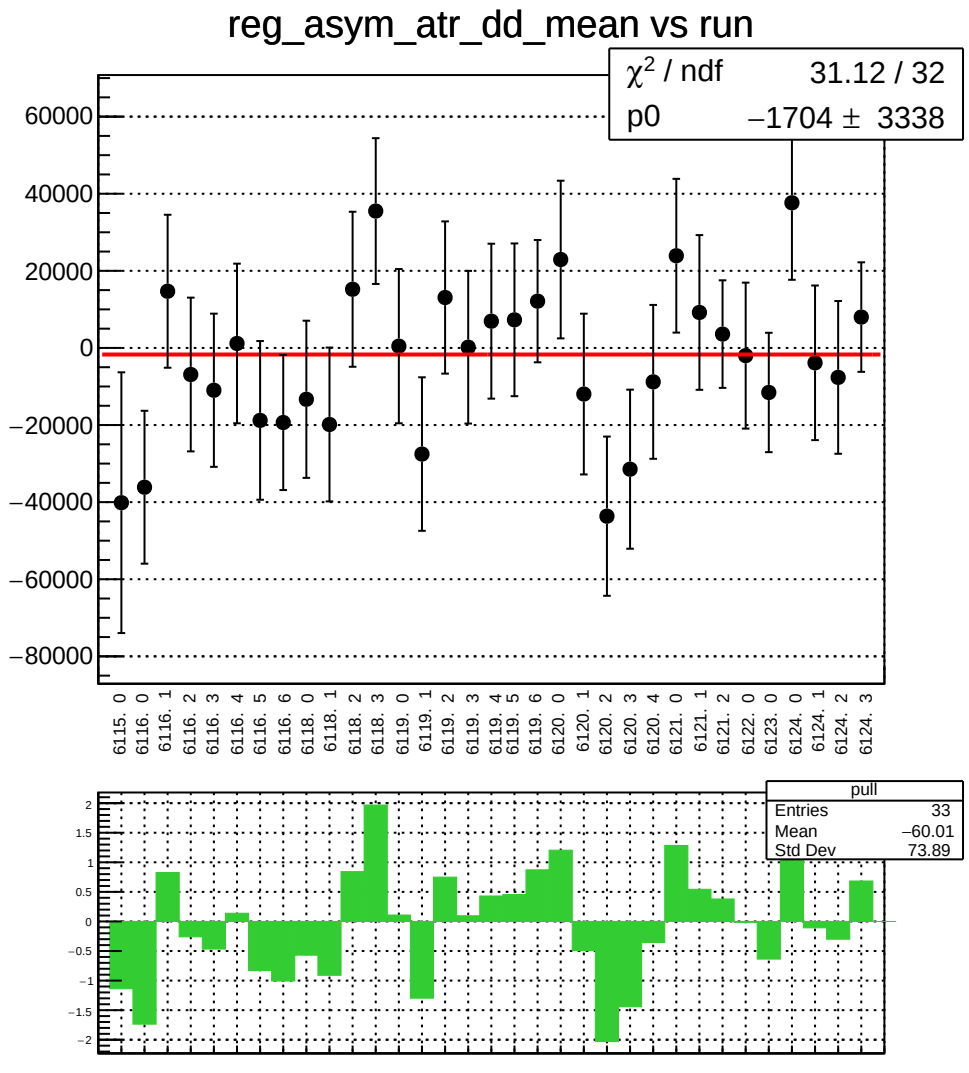

pull1D
Entries 33
Mean 0.008101
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

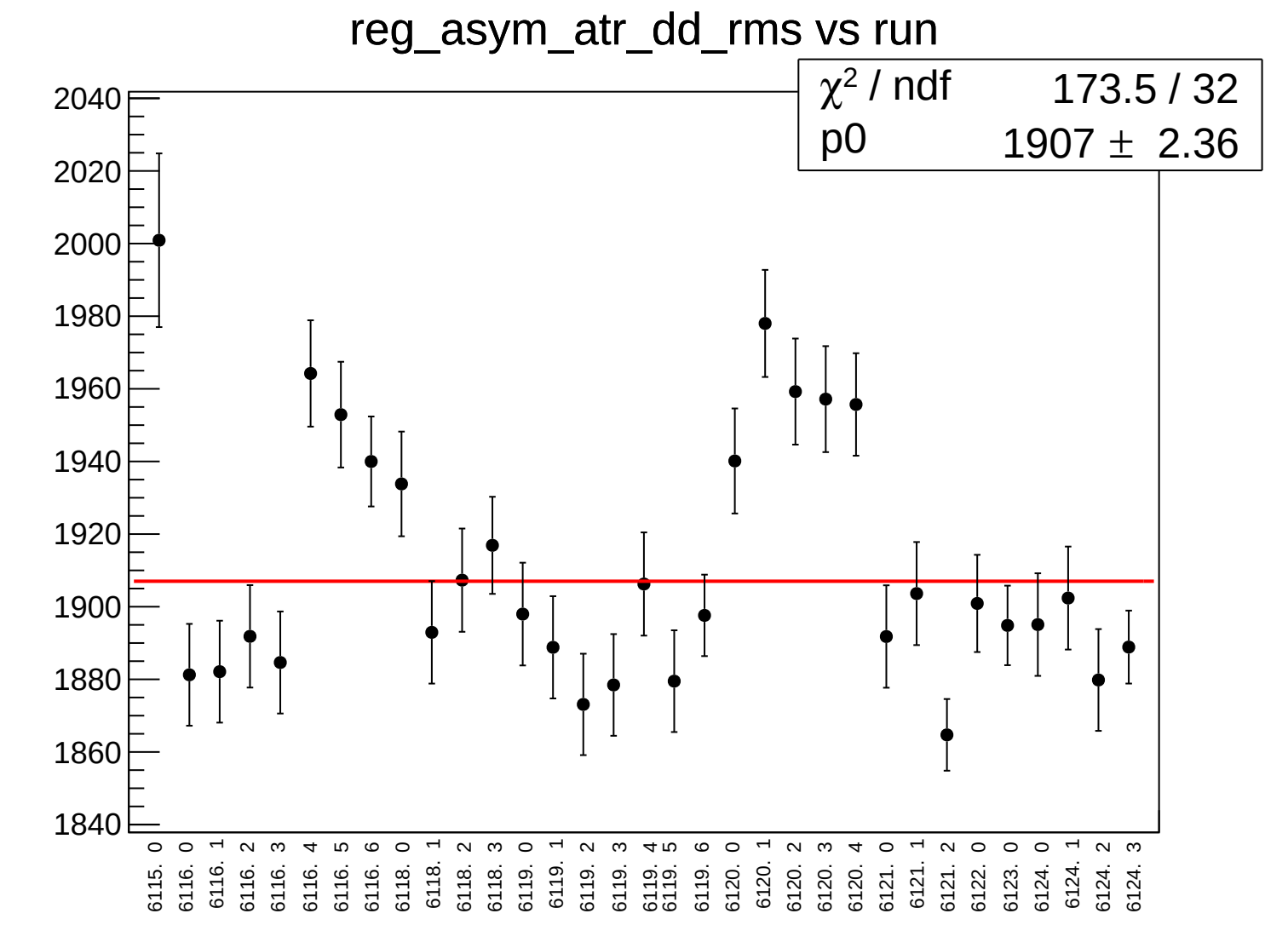

asym_atr_avg_correction_rms vs run
χ² / ndf 3314 / 32
p0 4525 ± 5.613
5200
5000
4800
4600
4400
4200
4000
3800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

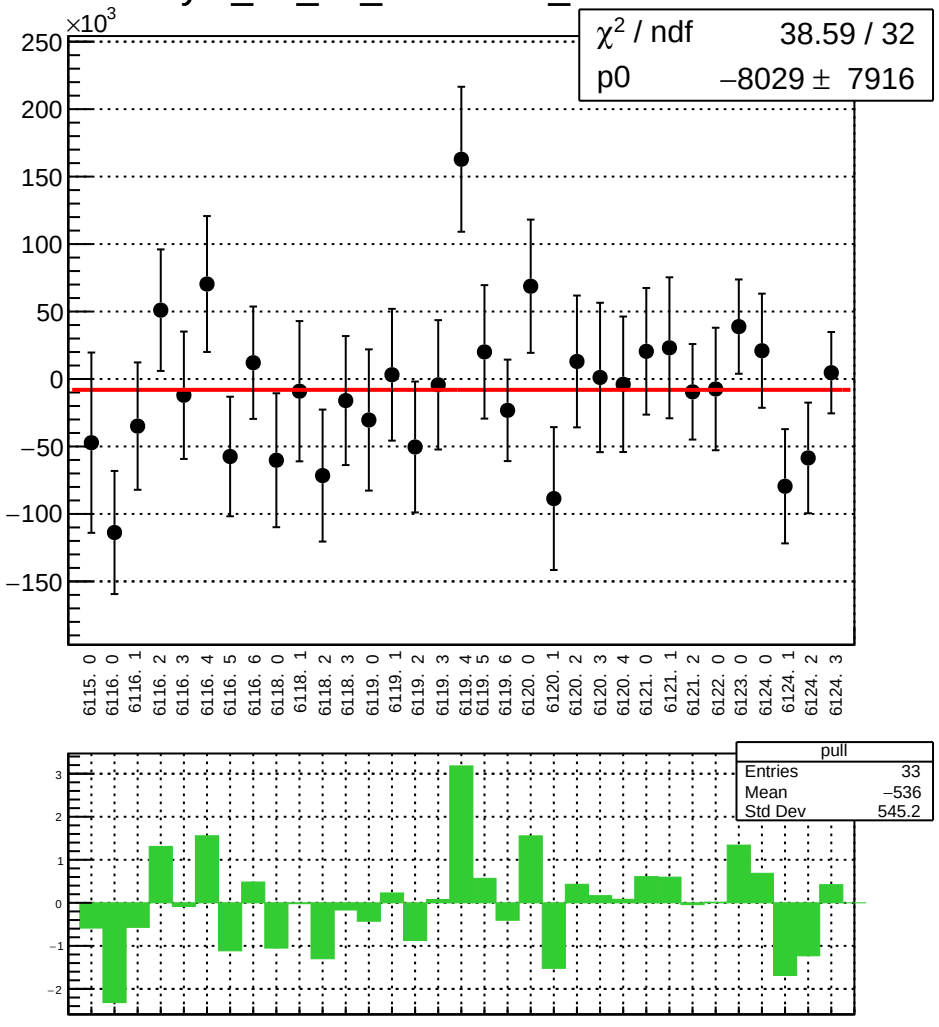

asym_atr_avg_mean vs run
×10^3
χ² / ndf 35.16 / 32
p0 −7641 ± 8641
200
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −90.68
Std Dev 101.4
2
1
0
−1
−2

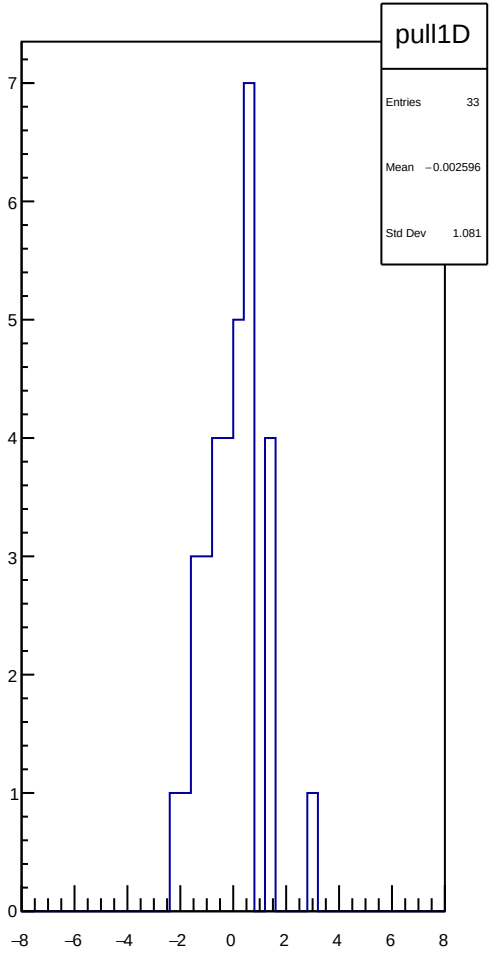

pull1D
Entries 33
Mean −0.01169
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

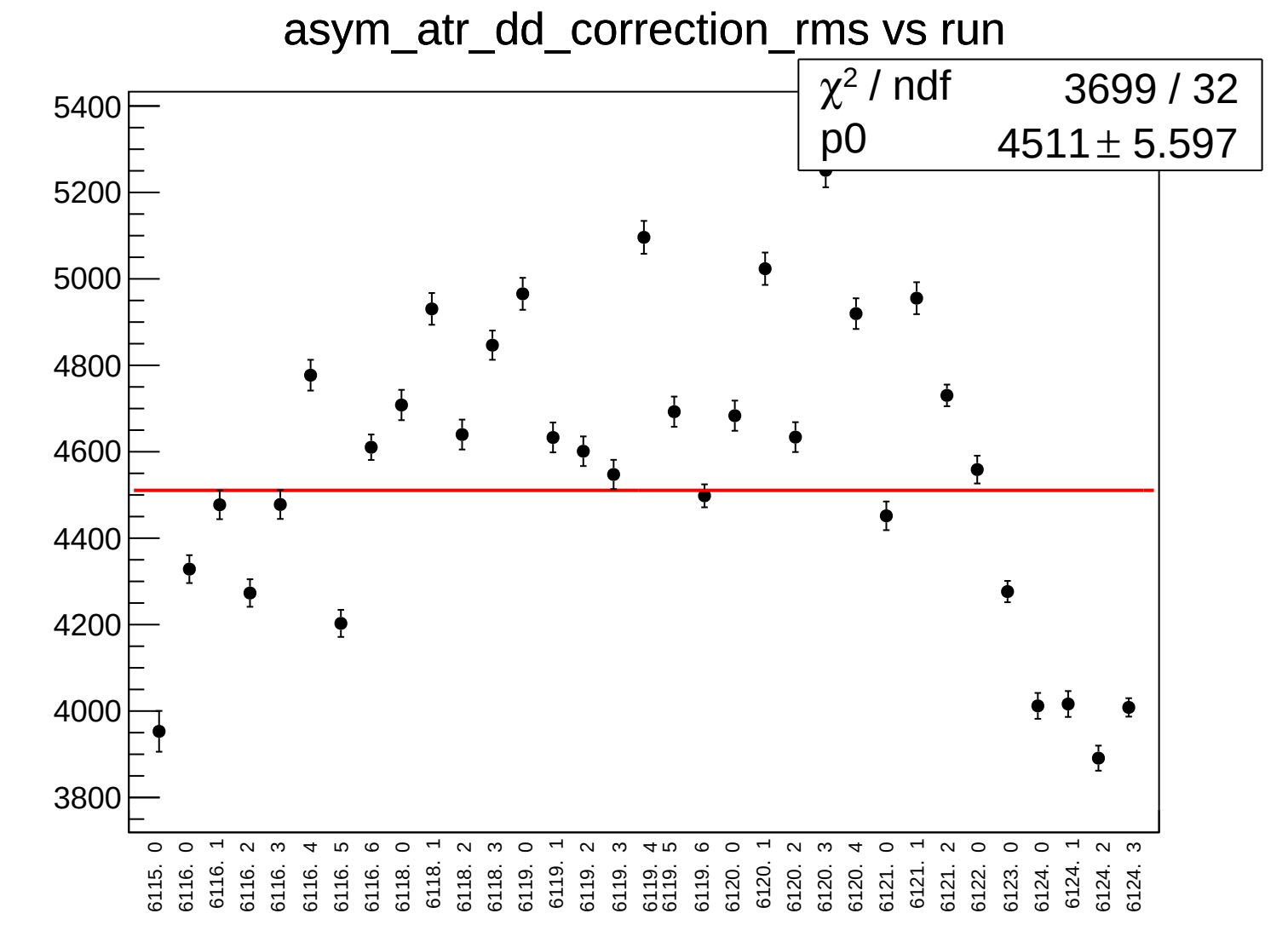

asym_atr_avg_rms vs run
χ^2 / ndf 2383 / 32
p0 4929 ± 6.11
5600
5400
5200
5000
4800
4600
4400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

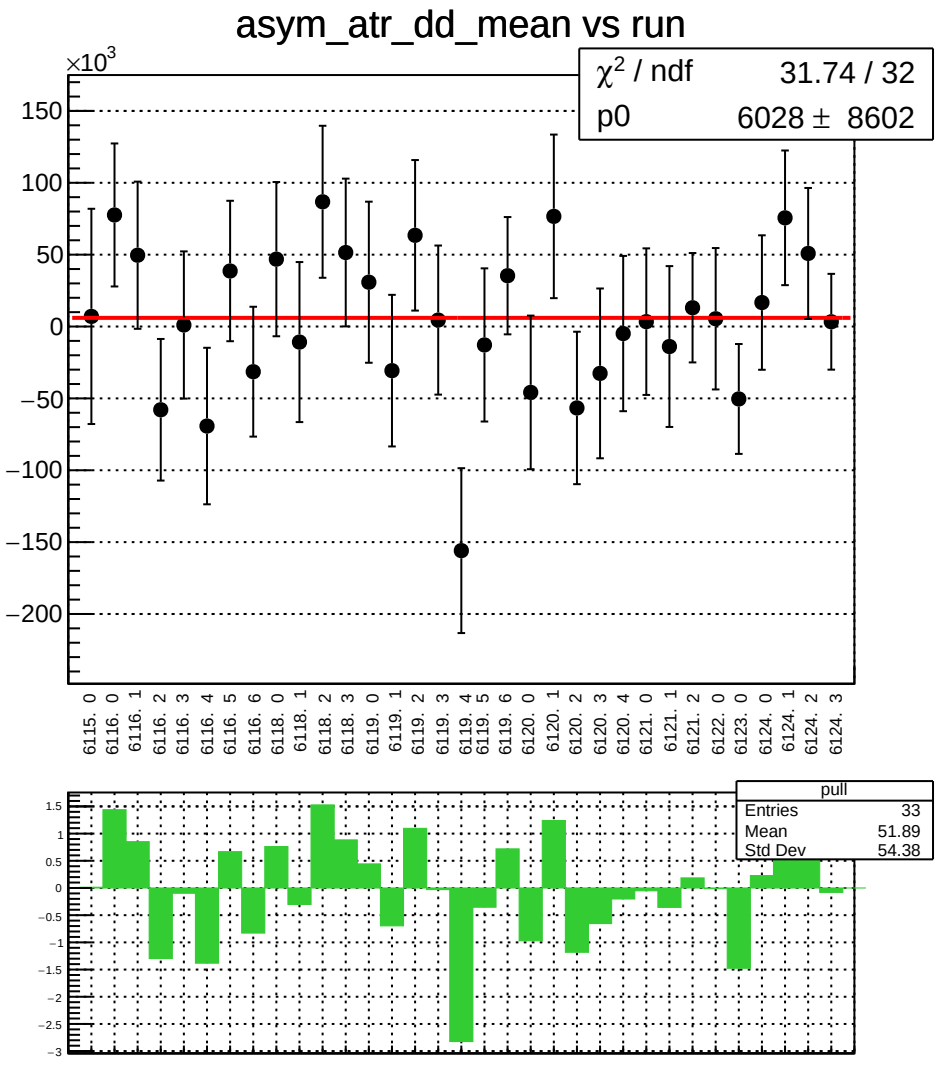

reg_asym_atr_dd_mean vs run
χ² / ndf 31.12 / 32
p0 −1704 ± 3338
60000
40000
20000
0
−20000
−40000
−60000
−80000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −60.01
Std Dev 73.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03155
Std Dev 0.9705
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

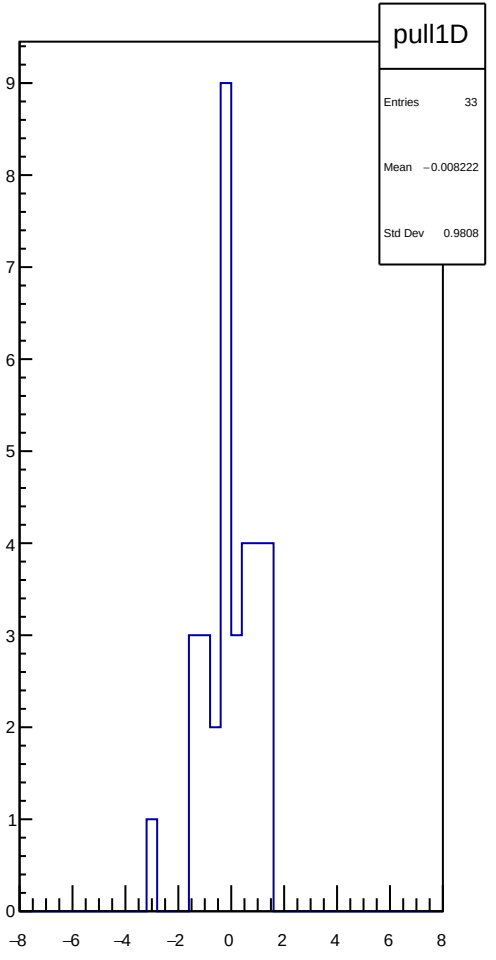

reg_asym_atr_dd_rms vs run
χ² / ndf 173.5 / 32
p0 1907 ± 2.36
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

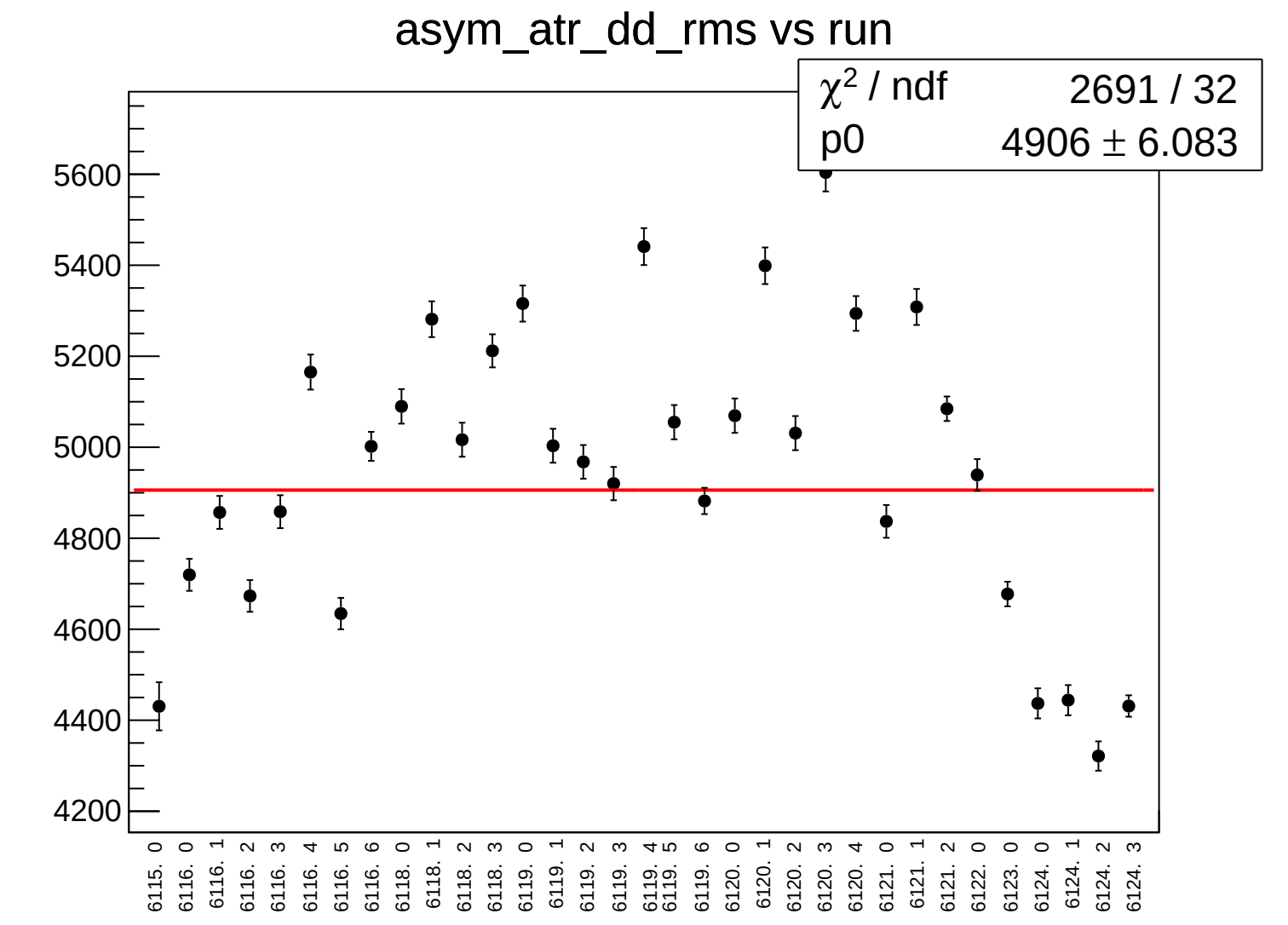

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 38.59 / 32
p0 −8029 ± 7916
250
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −536
Std Dev 545.2
3
2
1
0
−1
−2

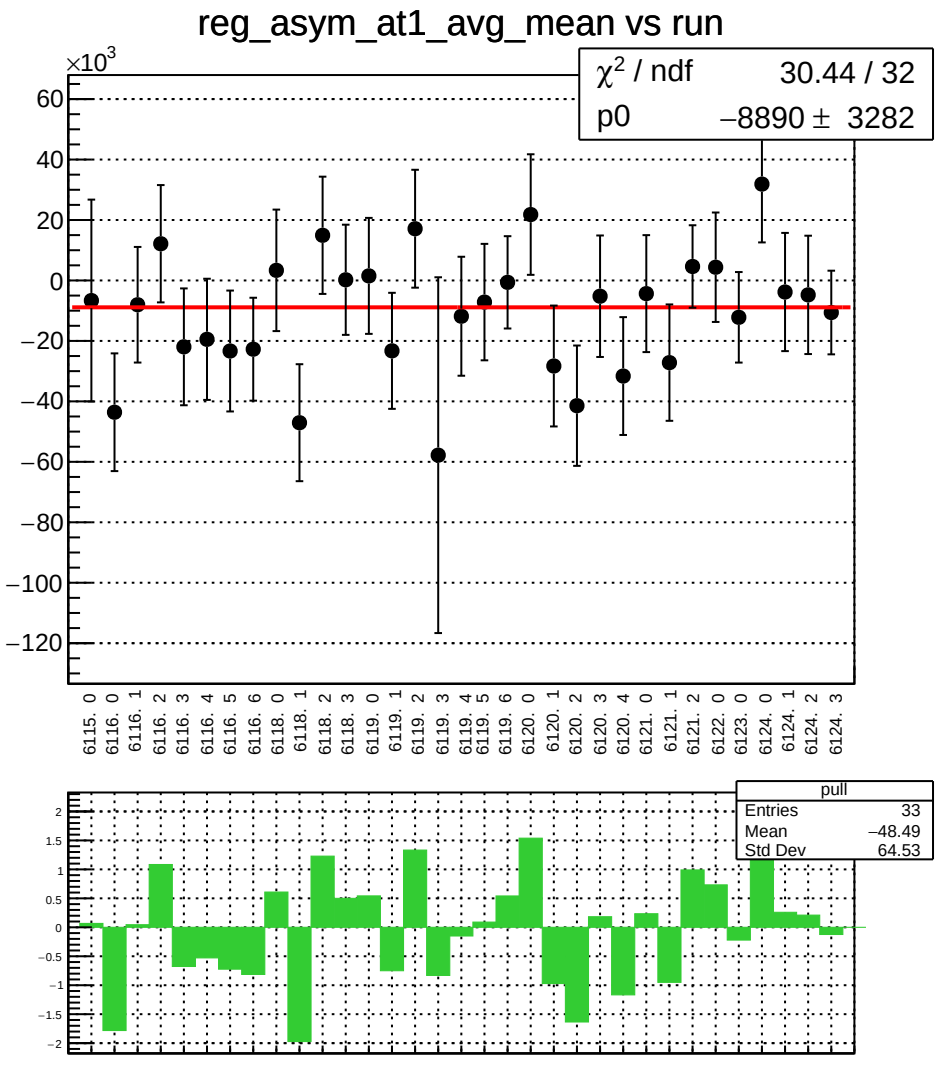

pull1D
Entries 33
Mean −0.002596
Std Dev 1.081
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

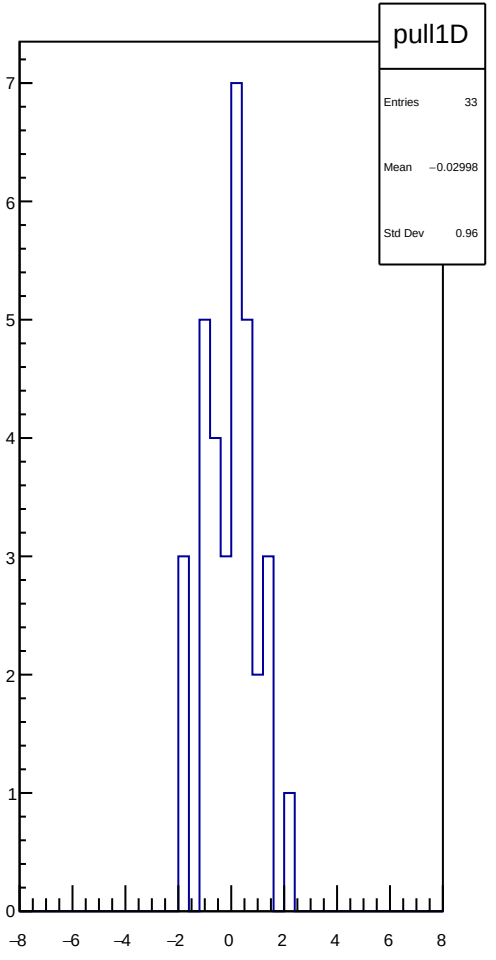

asym_atr_dd_correction_rms vs run
χ² / ndf 3699 / 32
p0 4511 ± 5.597
5400
5200
5000
4800
4600
4400
4200
4000
3800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

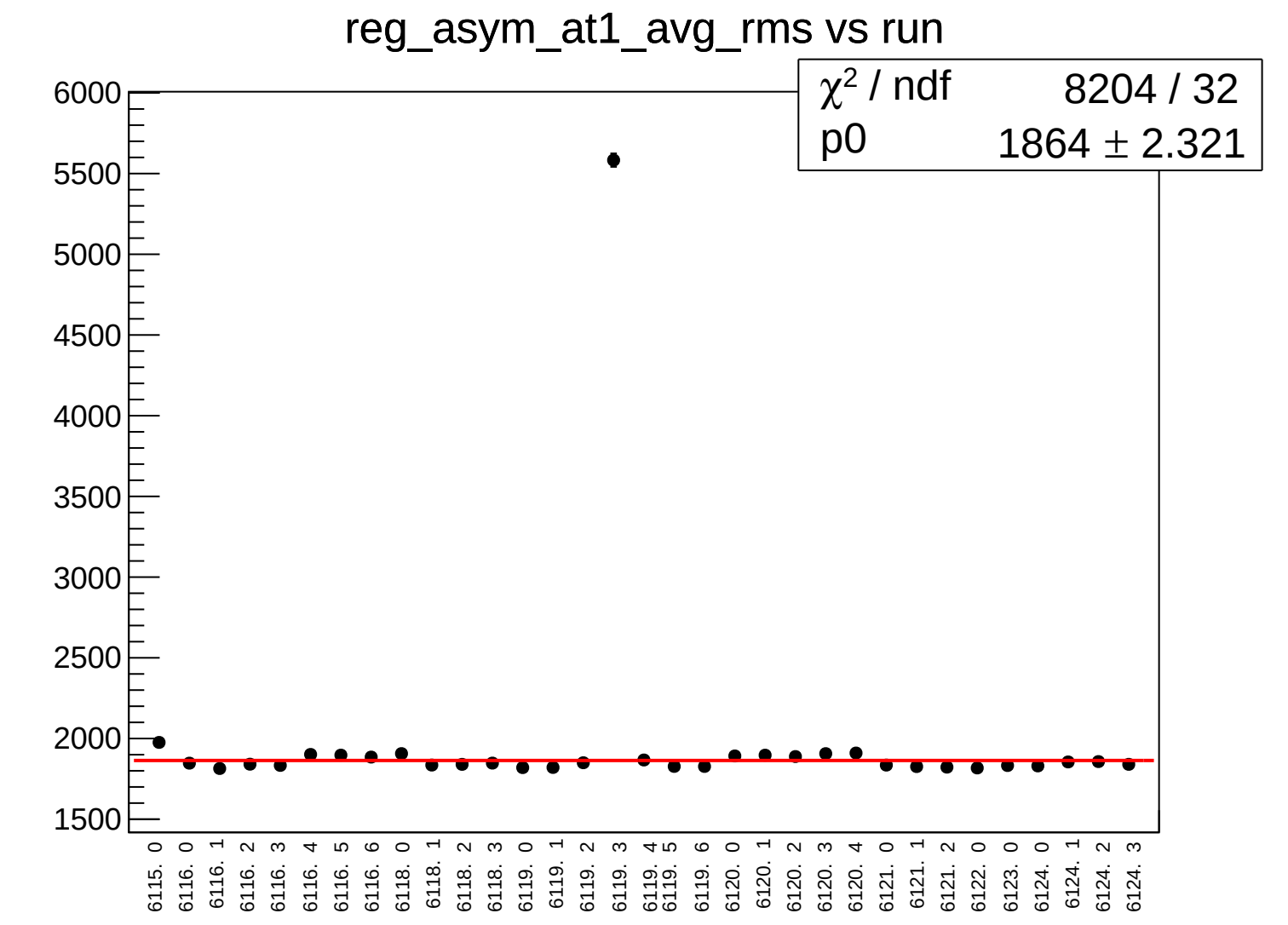

asym_atr_dd_mean vs run
×10^3
χ² / ndf 31.74 / 32
p0 6028 ± 8602
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.89
Std Dev 54.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

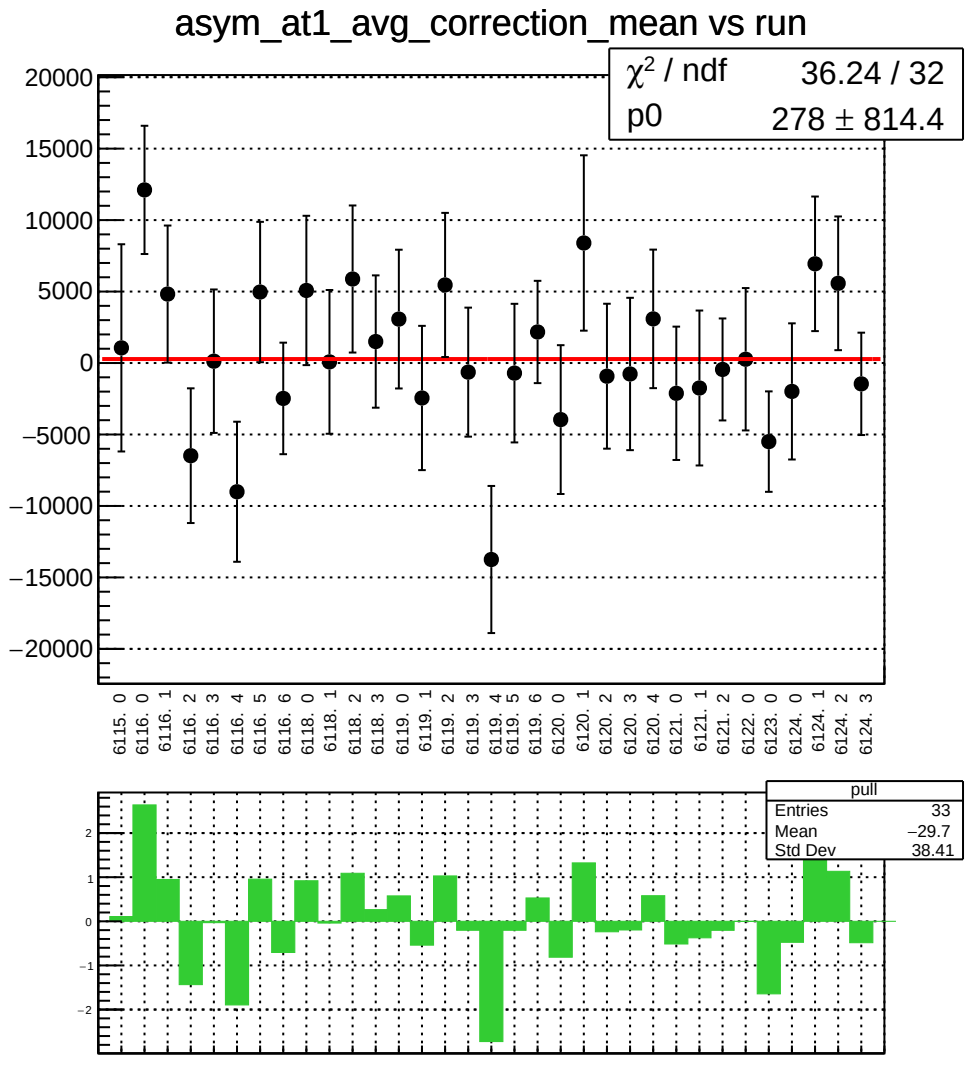

pull1D
Entries 33
Mean −0.008222
Std Dev 0.9808
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

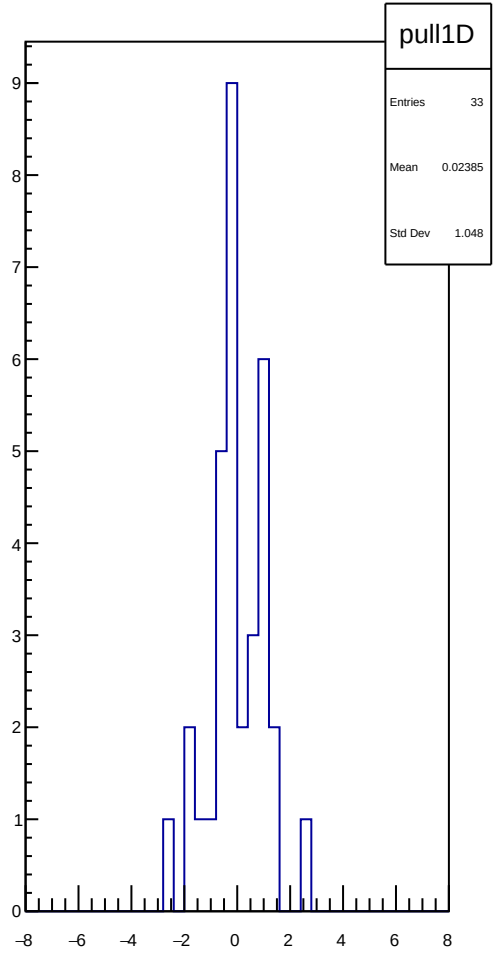

asym_atr_dd_rms vs run
χ^2 / ndf 2691 / 32
p0 4906 ± 6.083
5600
5400
5200
5000
4800
4600
4400
4200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

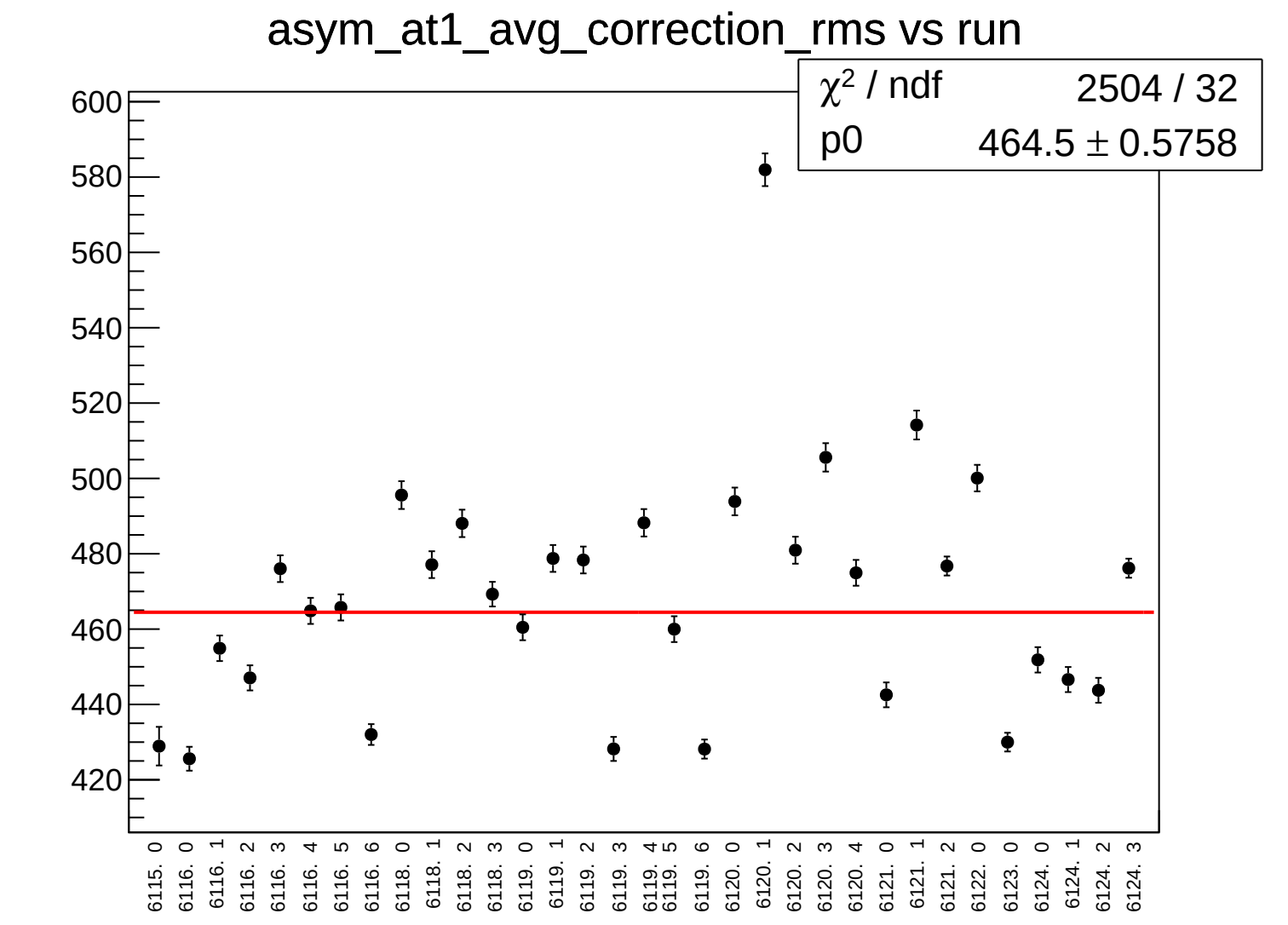

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 30.44 / 32
p0 −8890 ± 3282
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −48.49
Std Dev 64.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

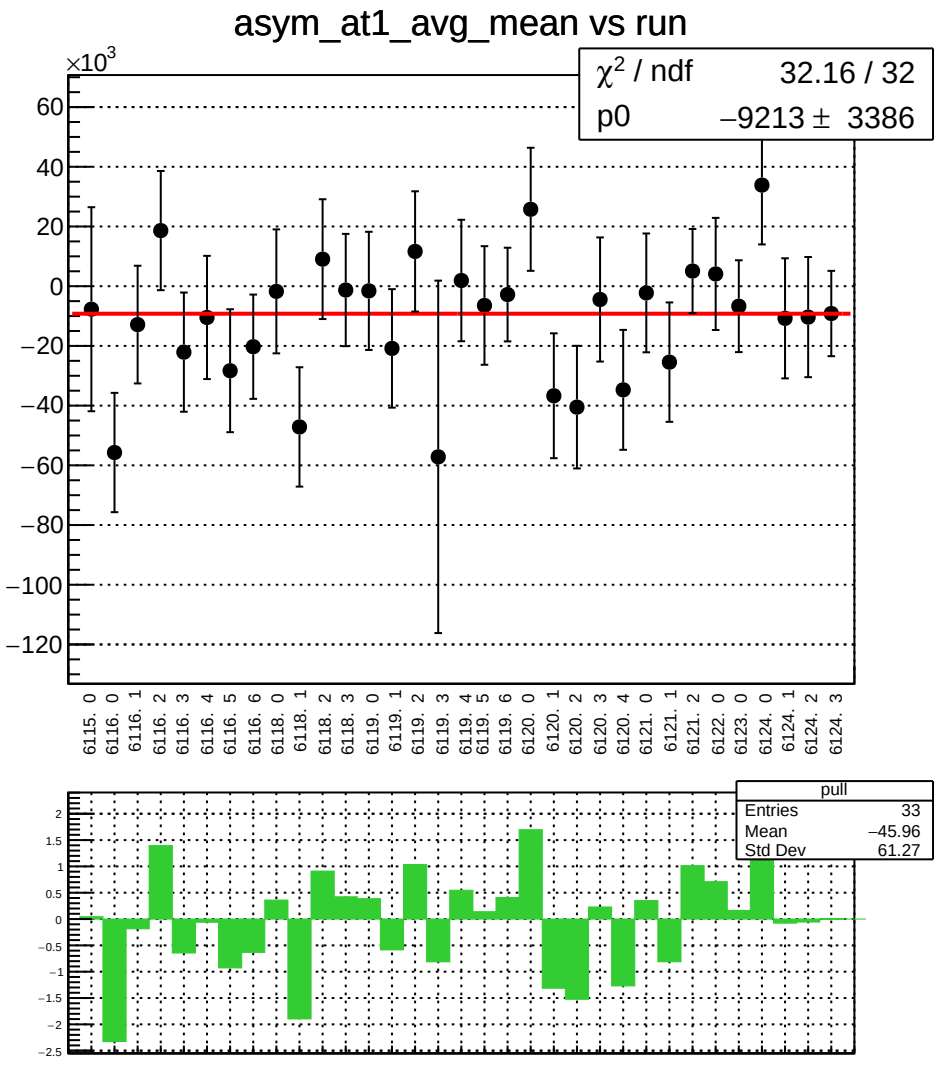

pull1D
Entries 33
Mean −0.02998
Std Dev 0.96
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

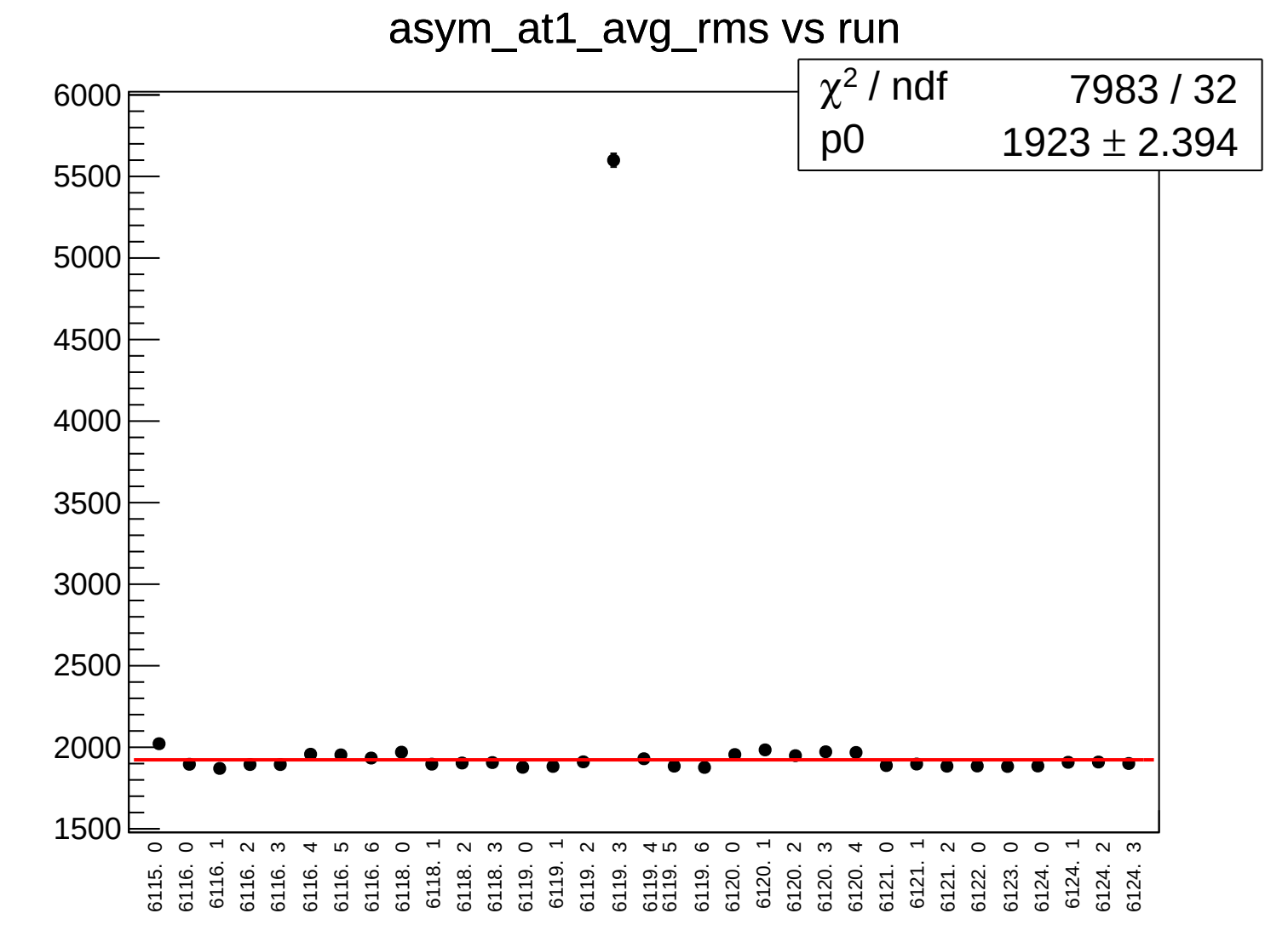

reg_asym_at1_avg_rms vs run
χ² / ndf 8204 / 32
p0 1864 ± 2.321
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

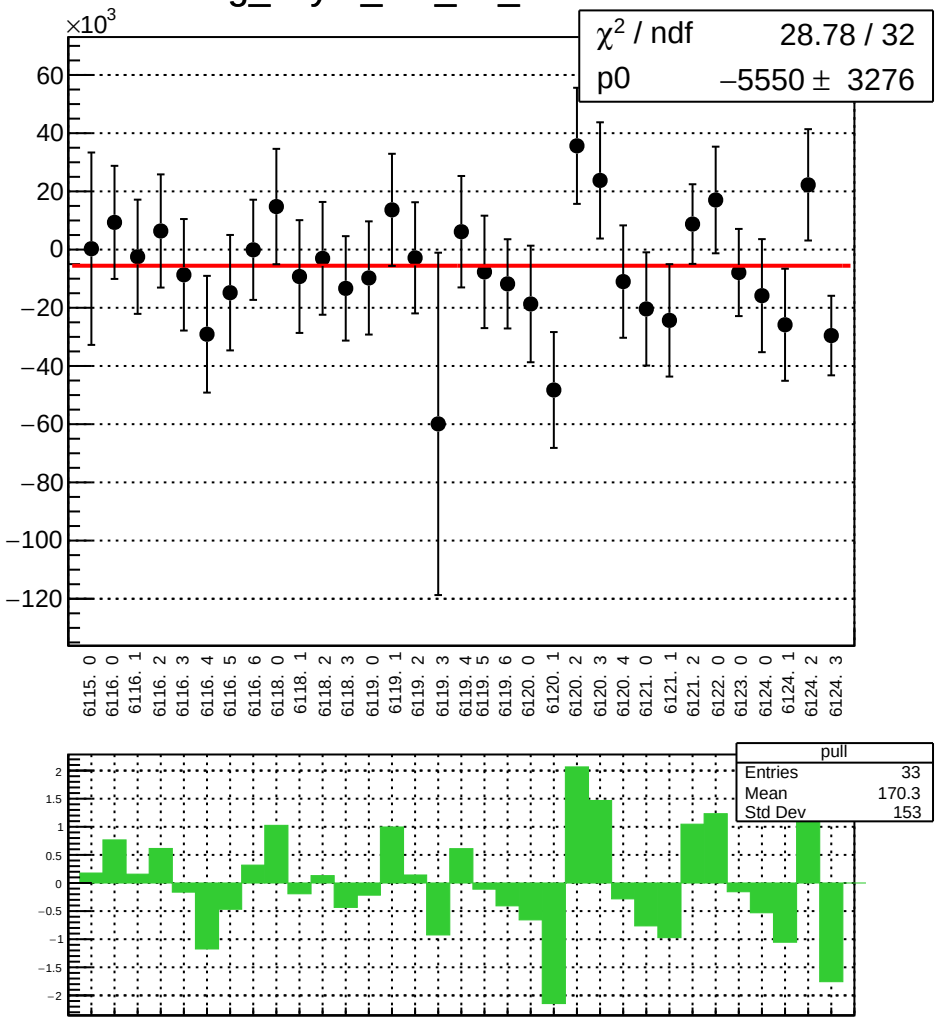

asym_at1_avg_correction_mean vs run
χ² / ndf 36.24 / 32
p0 278 ± 814.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −29.7
Std Dev 38.41
2
1
0
−1
−2

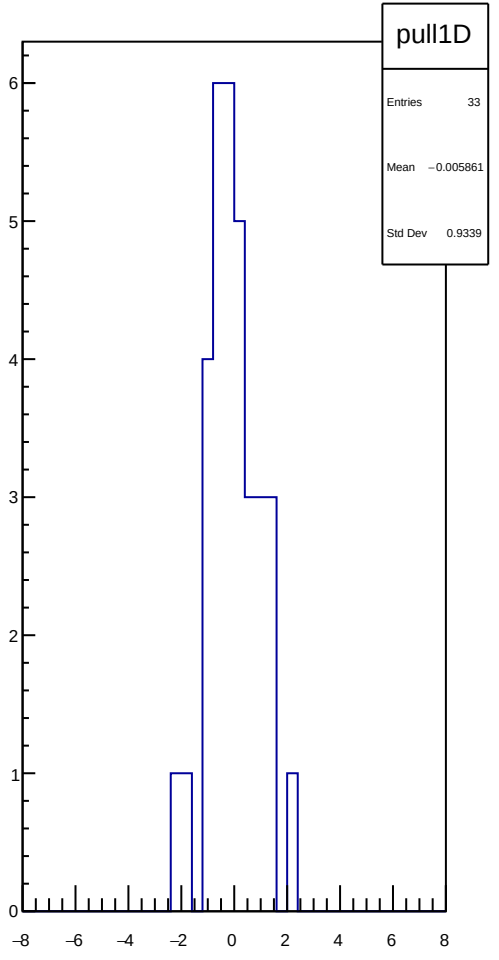

pull1D
Entries 33
Mean 0.02385
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

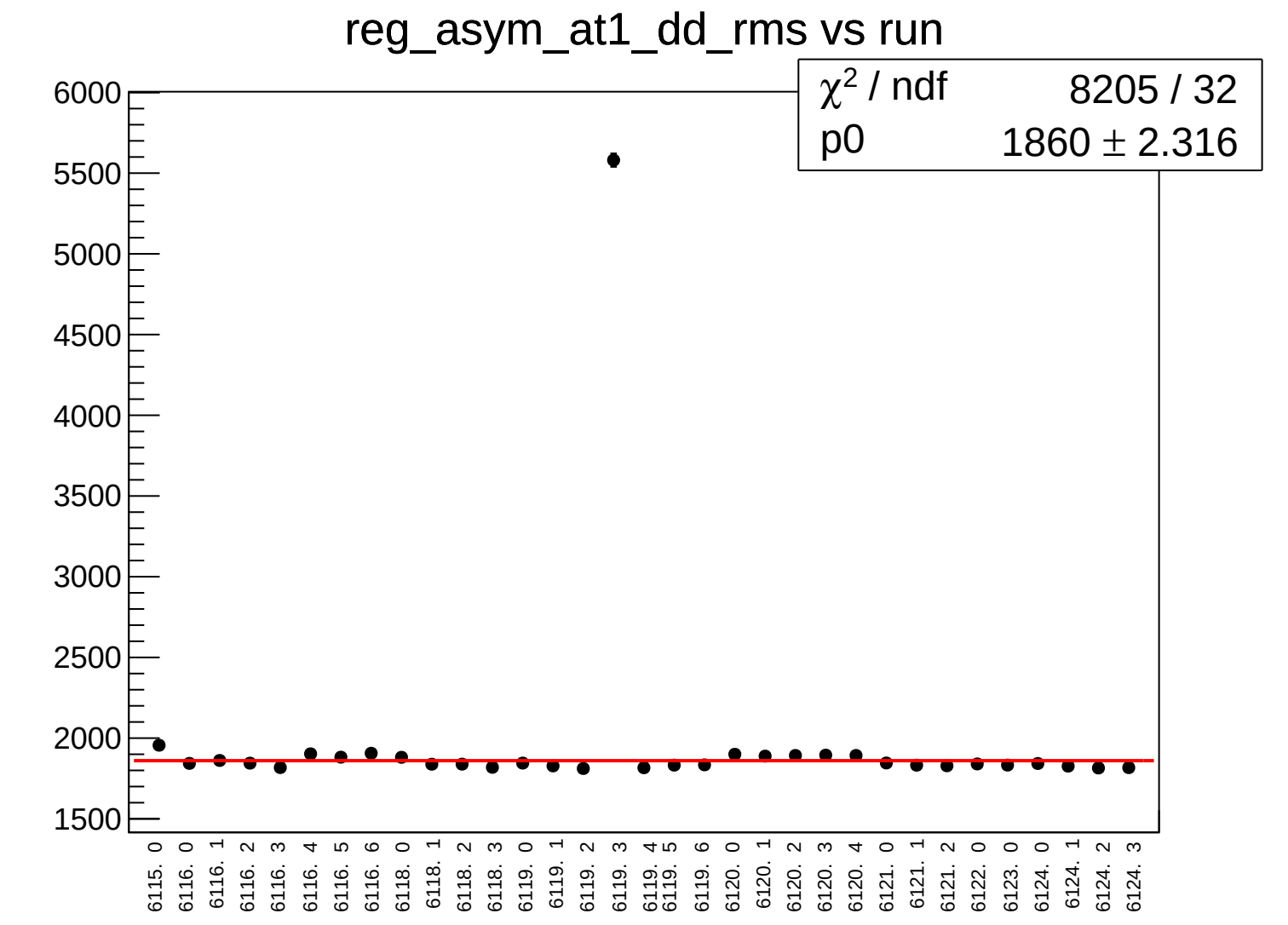

asym_at1_avg_correction_rms vs run
χ^2 / ndf 2504 / 32
p0 464.5 ± 0.5758
600
580
560
540
520
500
480
460
440
420
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

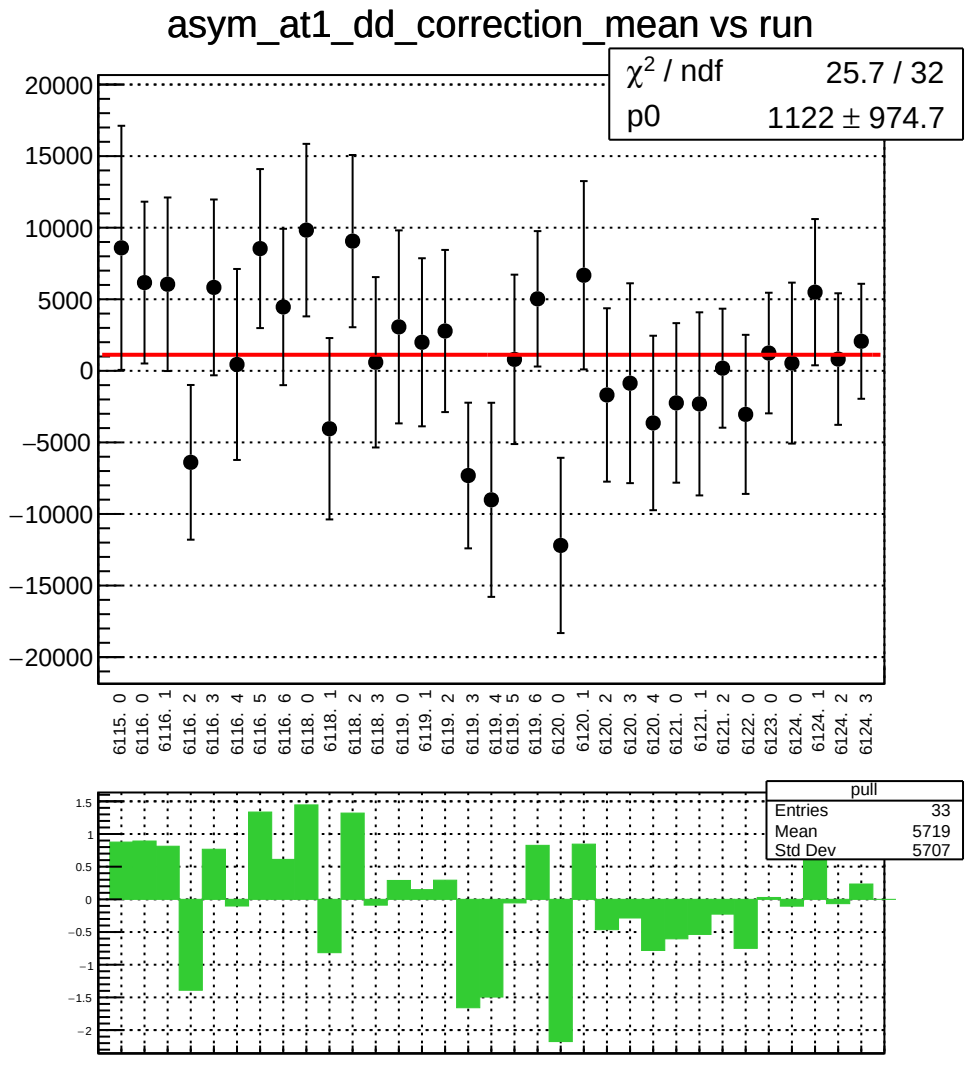

asym_at1_avg_mean vs run
×10^3
χ² / ndf 32.16 / 32
p0 −9213 ± 3386
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −45.96
Std Dev 61.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.03454
Std Dev 0.9866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

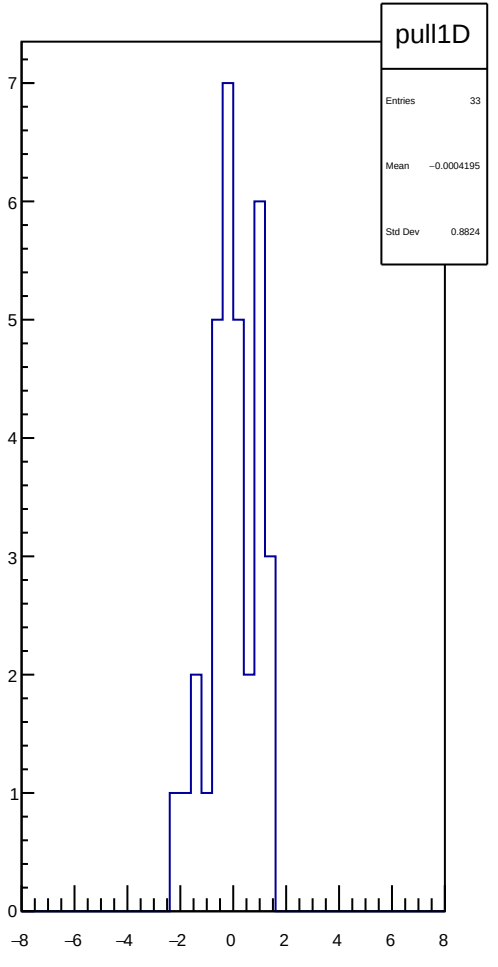

asym_at1_avg_rms vs run
χ² / ndf 7983 / 32
p0 1923 ± 2.394
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

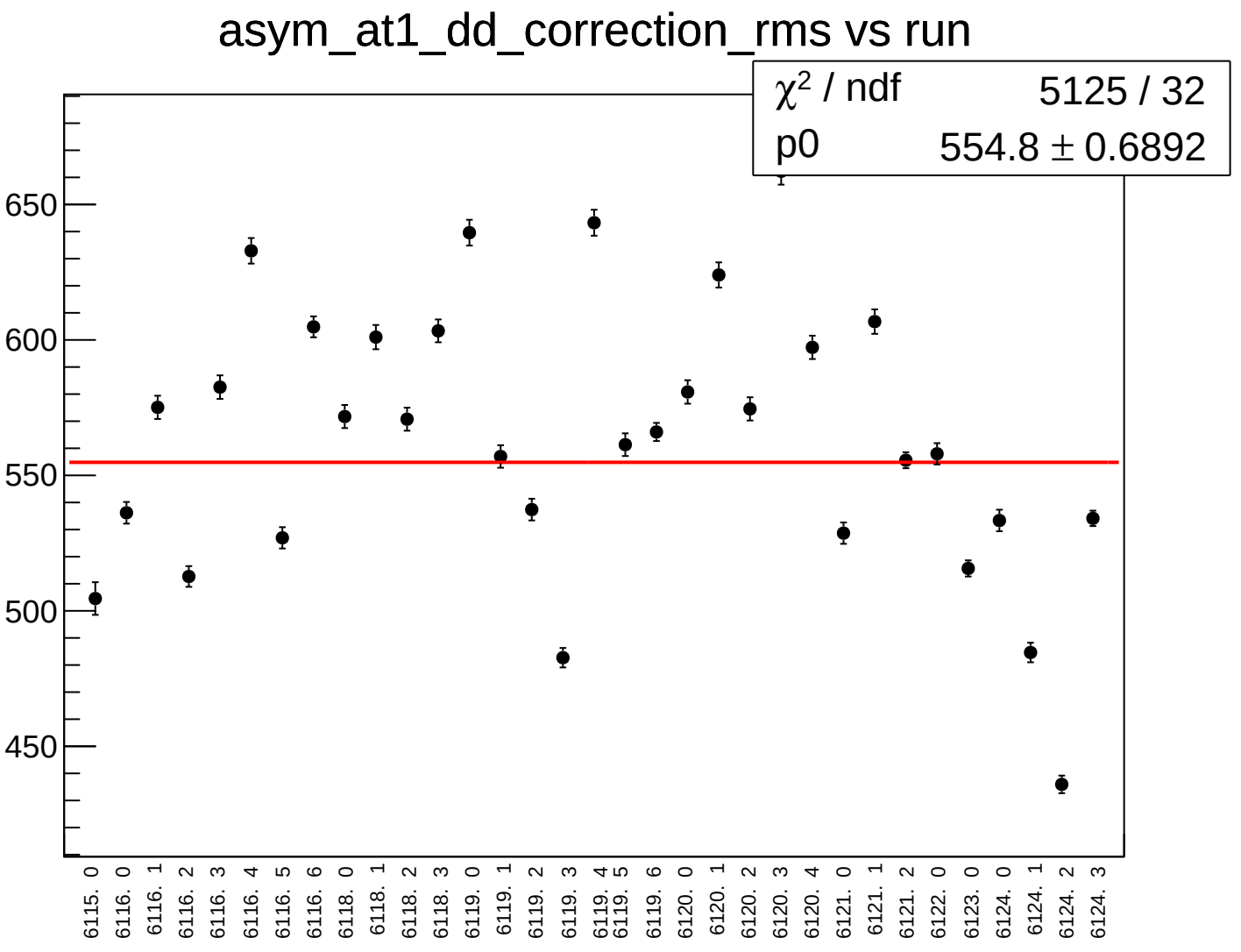

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 28.78 / 32
p0 −5550 ± 3276
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 170.3
Std Dev 153
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

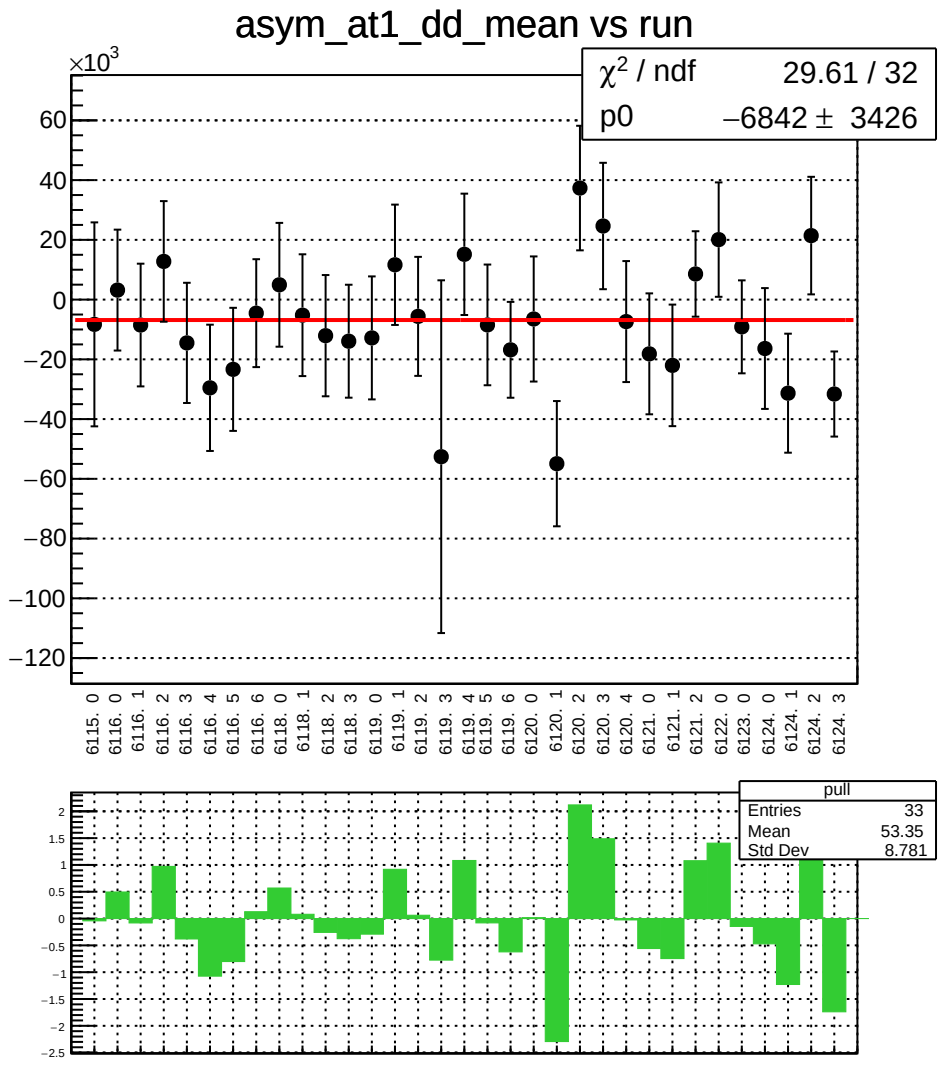

pull1D
Entries 33
Mean −0.005861
Std Dev 0.9339
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

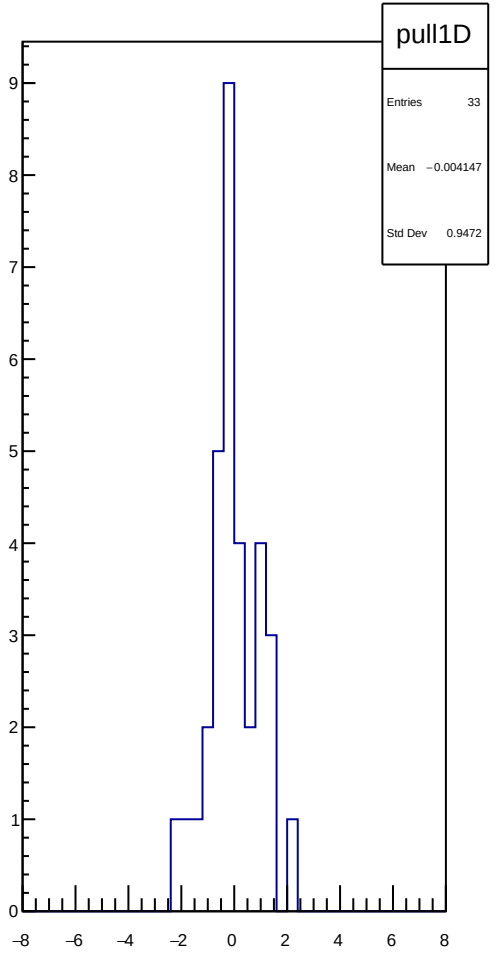

reg_asym_at1_dd_rms vs run
χ² / ndf 8205 / 32
p0 1860 ± 2.316
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

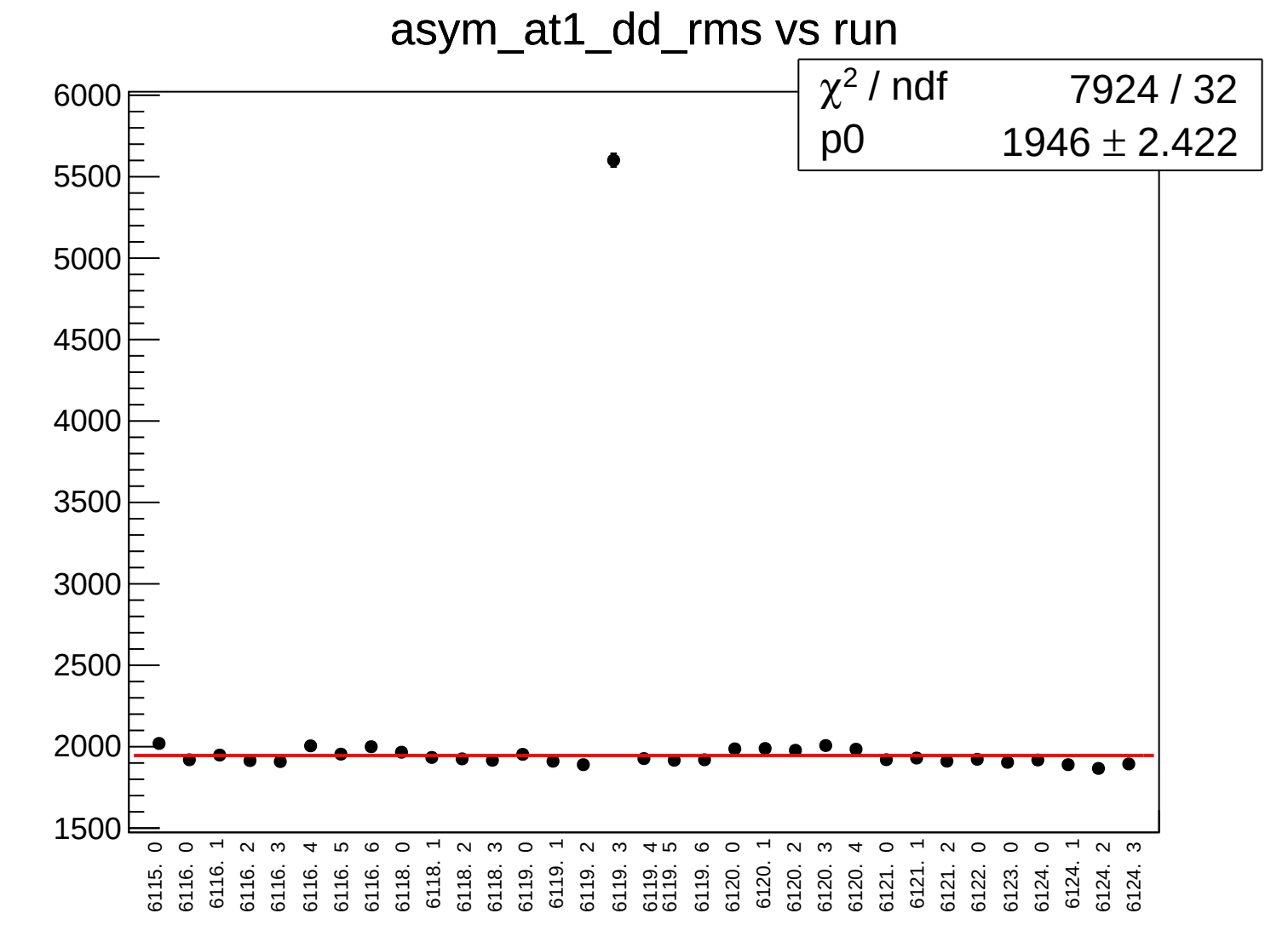

asym_at1_dd_correction_mean vs run
χ² / ndf 25.7 / 32
p0 1122 ± 974.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 5719
Std Dev 5707
1.5
1
0.5
0
−0.5
−1
−1.5
−2

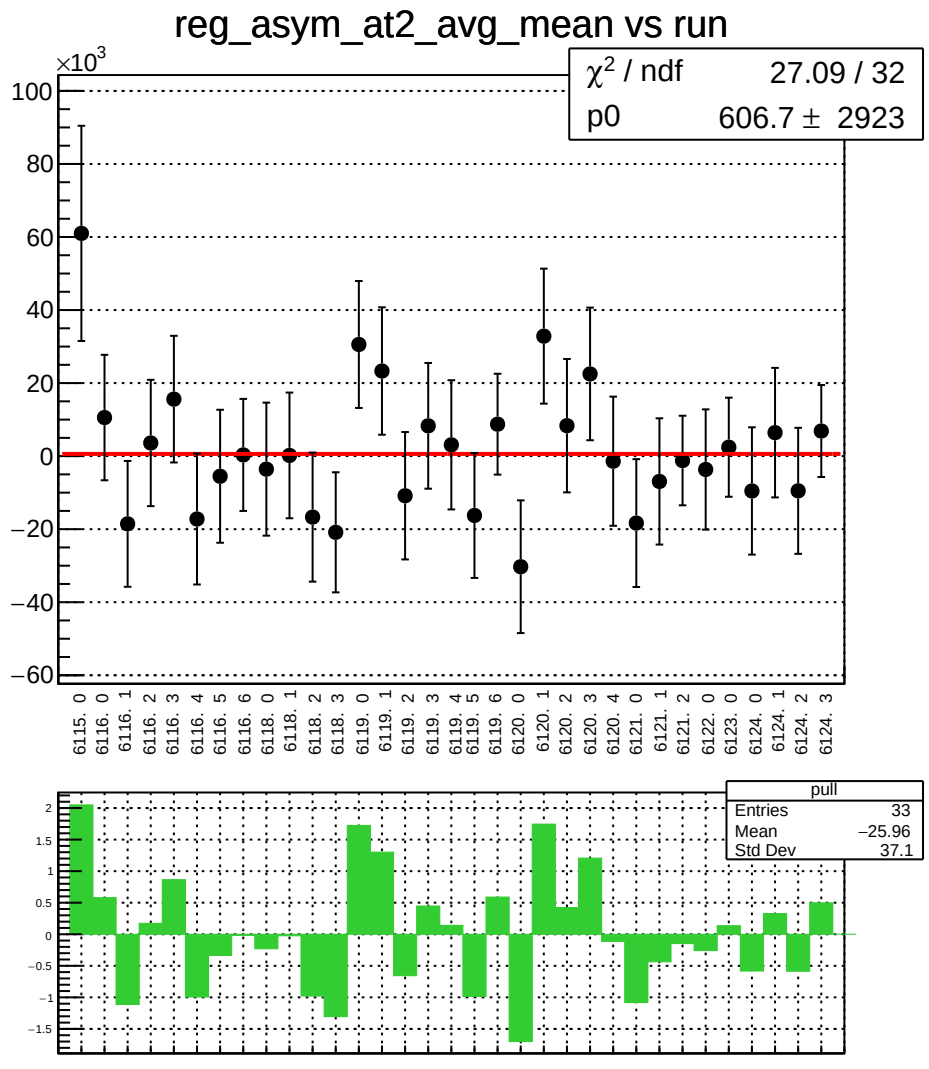

pull1D
Entries 33
Mean −0.0004195
Std Dev 0.8824
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

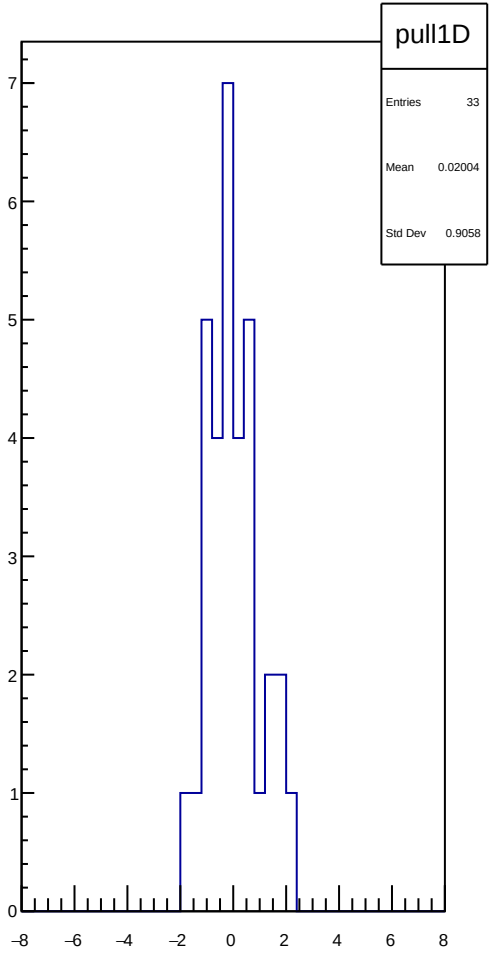

asym_at1_dd_correction_rms vs run
χ² / ndf 5125 / 32
p0 554.8 ± 0.6892
650
600
550
500
450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

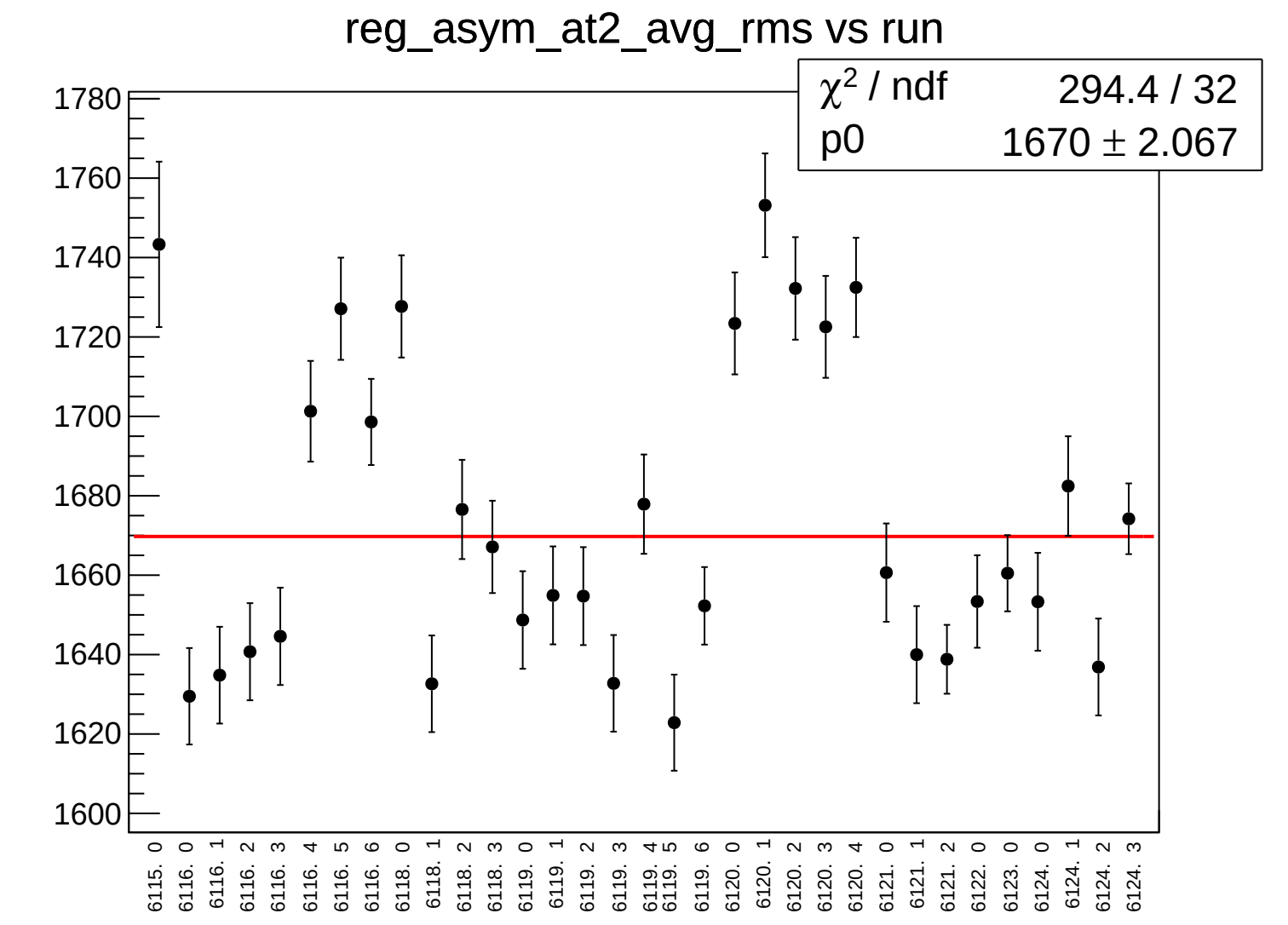

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 29.61 / 32
p0 −6842 ± 3426
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 53.35
Std Dev 8.781
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

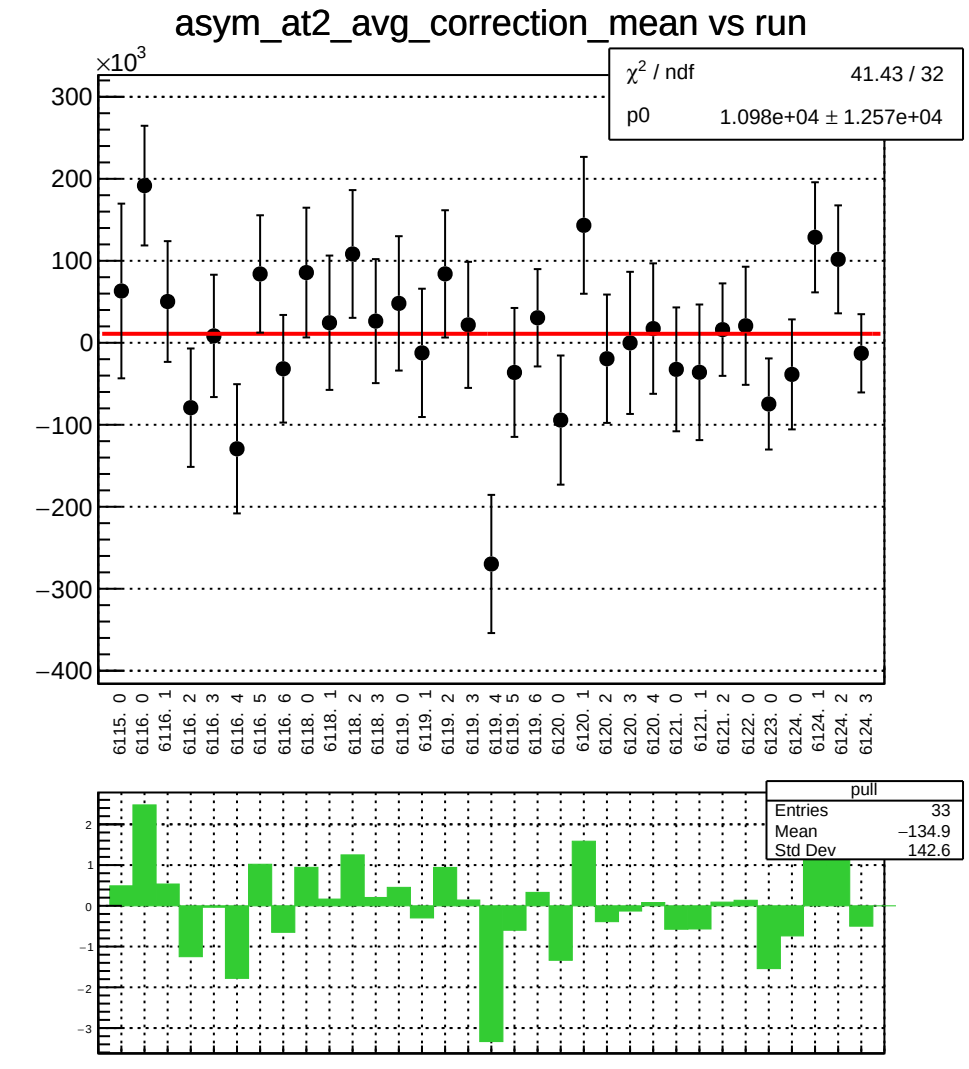

pull1D
Entries 33
Mean −0.004147
Std Dev 0.9472
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

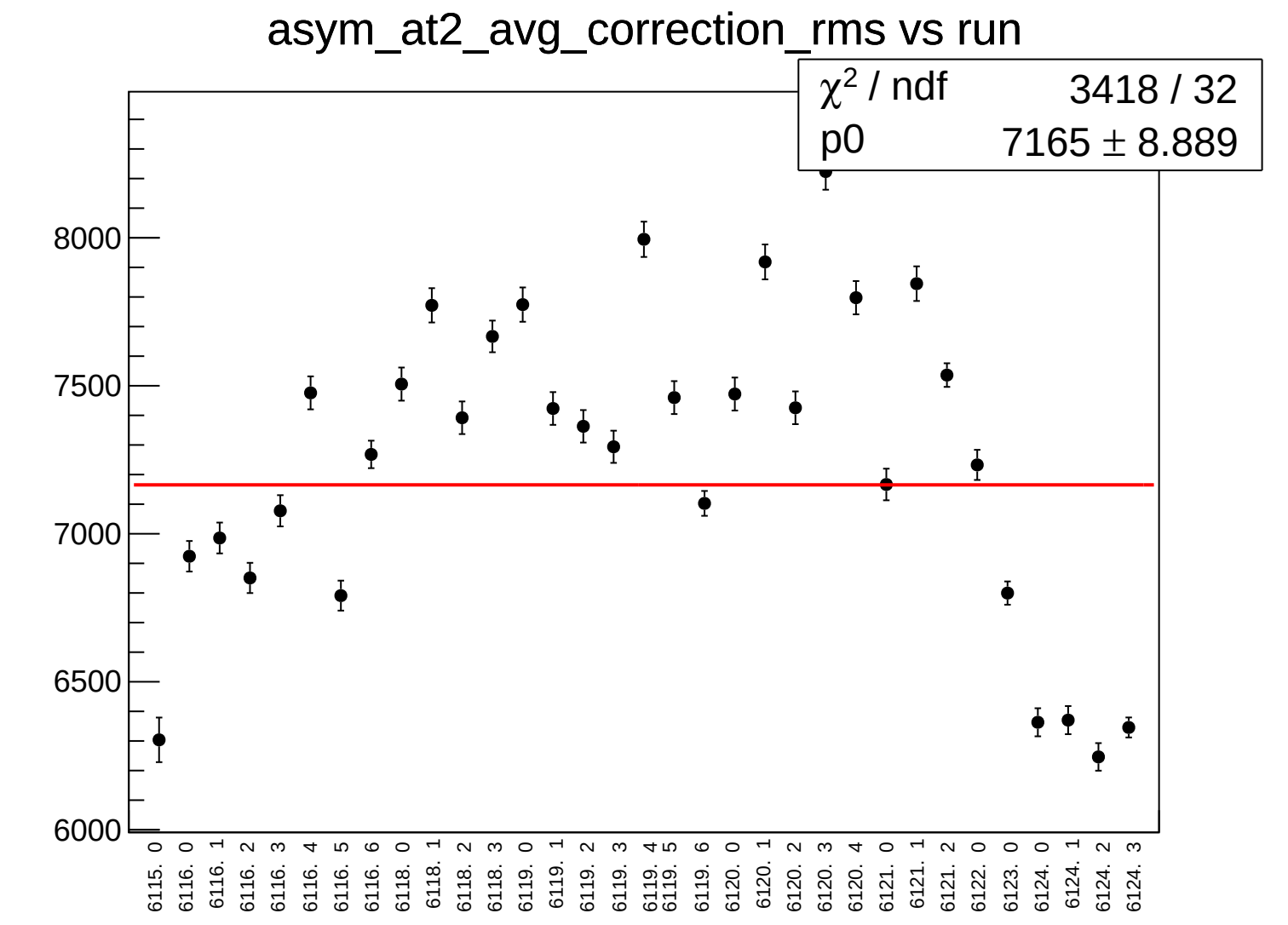

asym_at1_dd_rms vs run
χ² / ndf 7924 / 32
p0 1946 ± 2.422
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

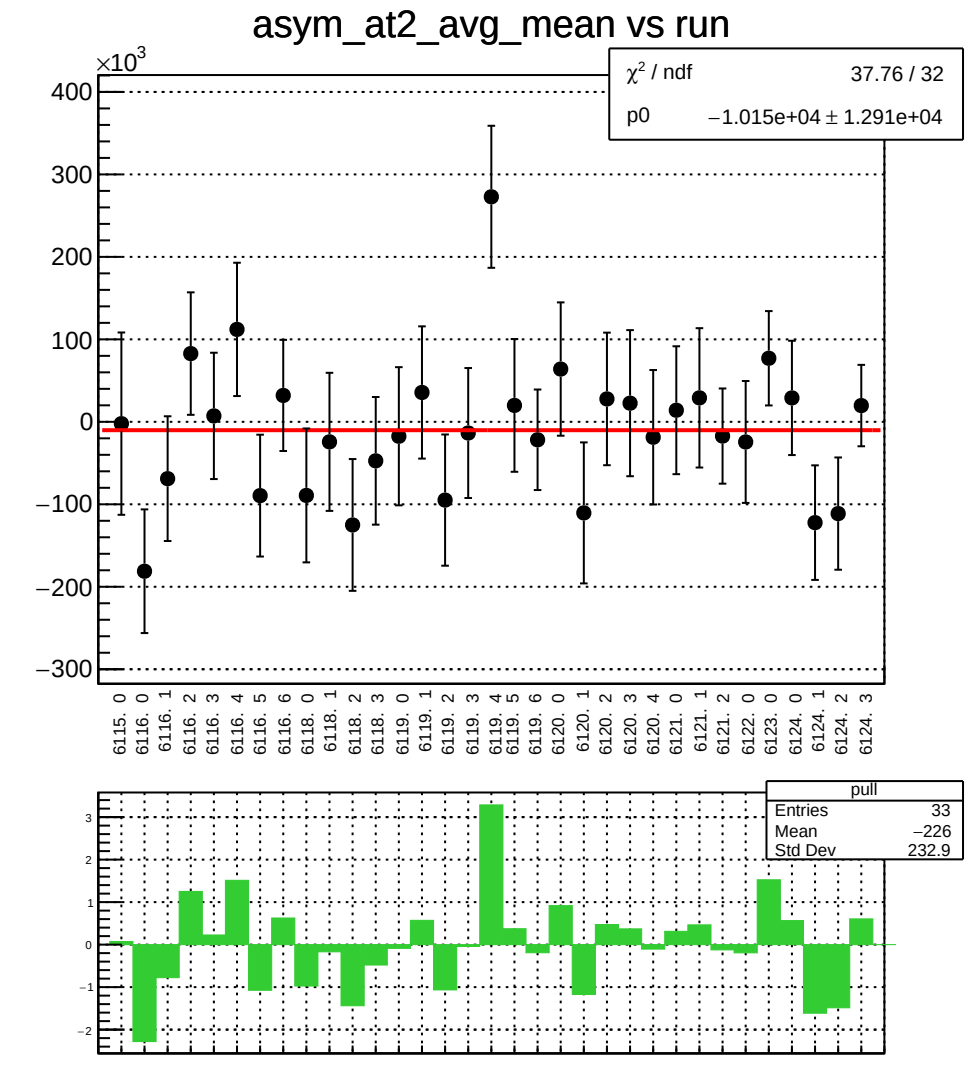

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 27.09 / 32
p0 606.7 ± 2923
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −25.96
Std Dev 37.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

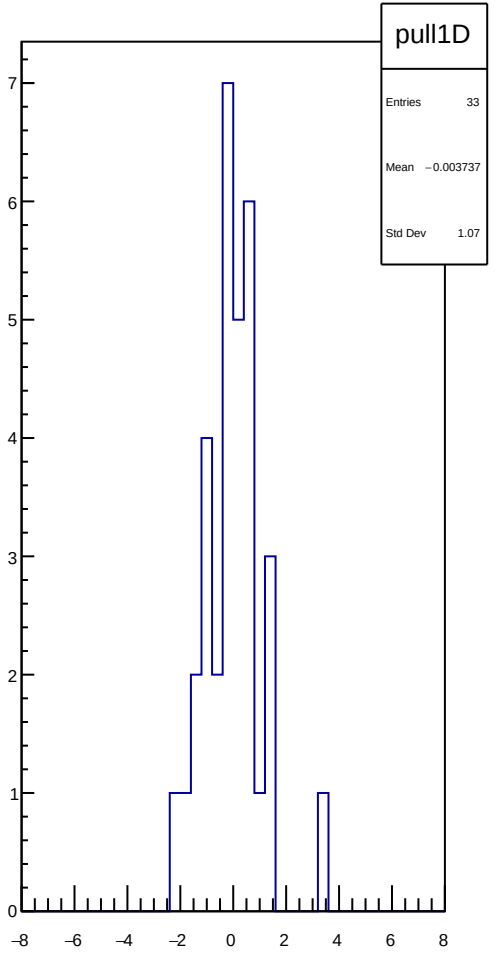

pull1D
Entries 33
Mean 0.02004
Std Dev 0.9058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

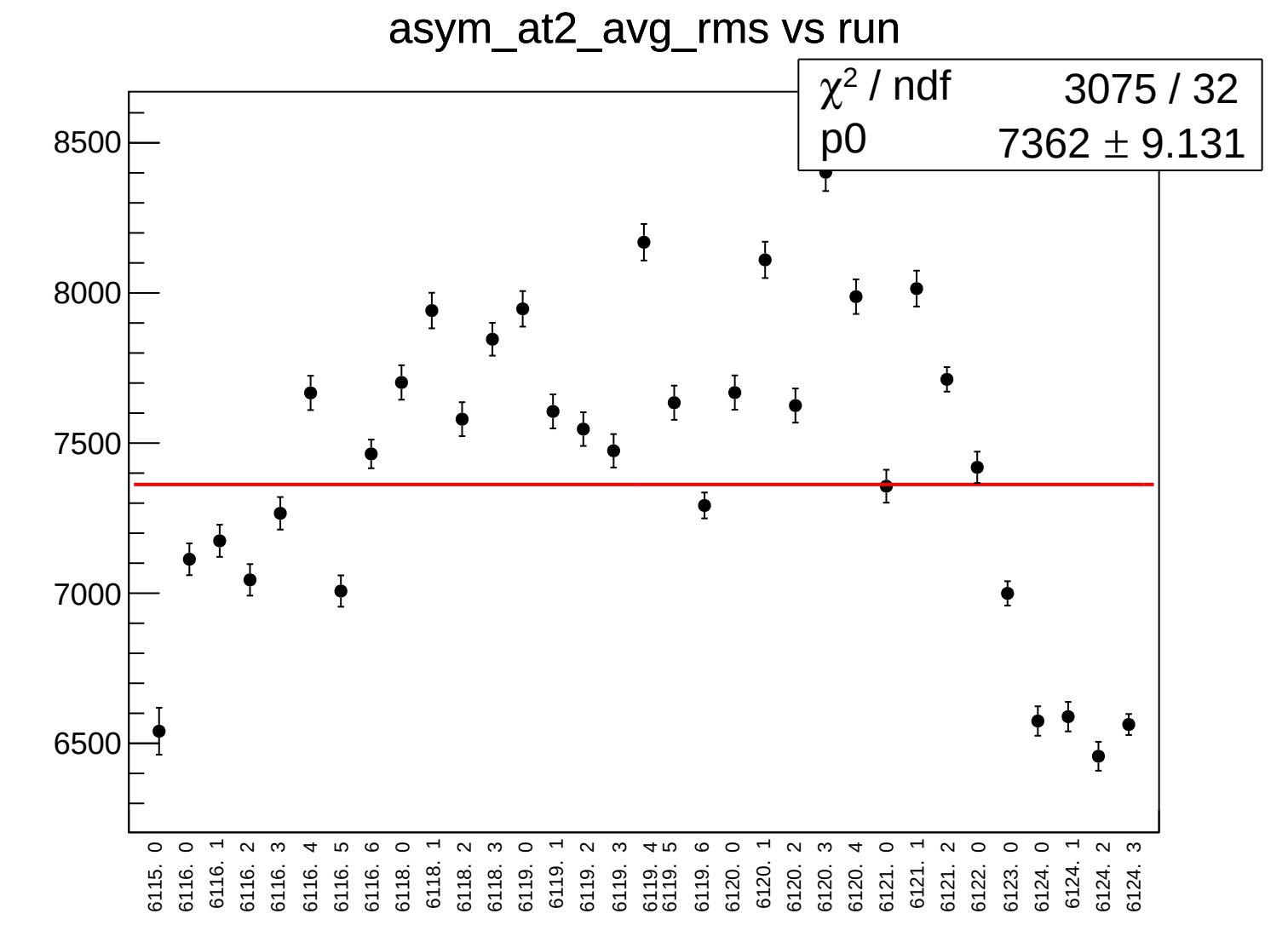

reg_asym_at2_avg_rms vs run
χ² / ndf 294.4 / 32
p0 1670 ± 2.067
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

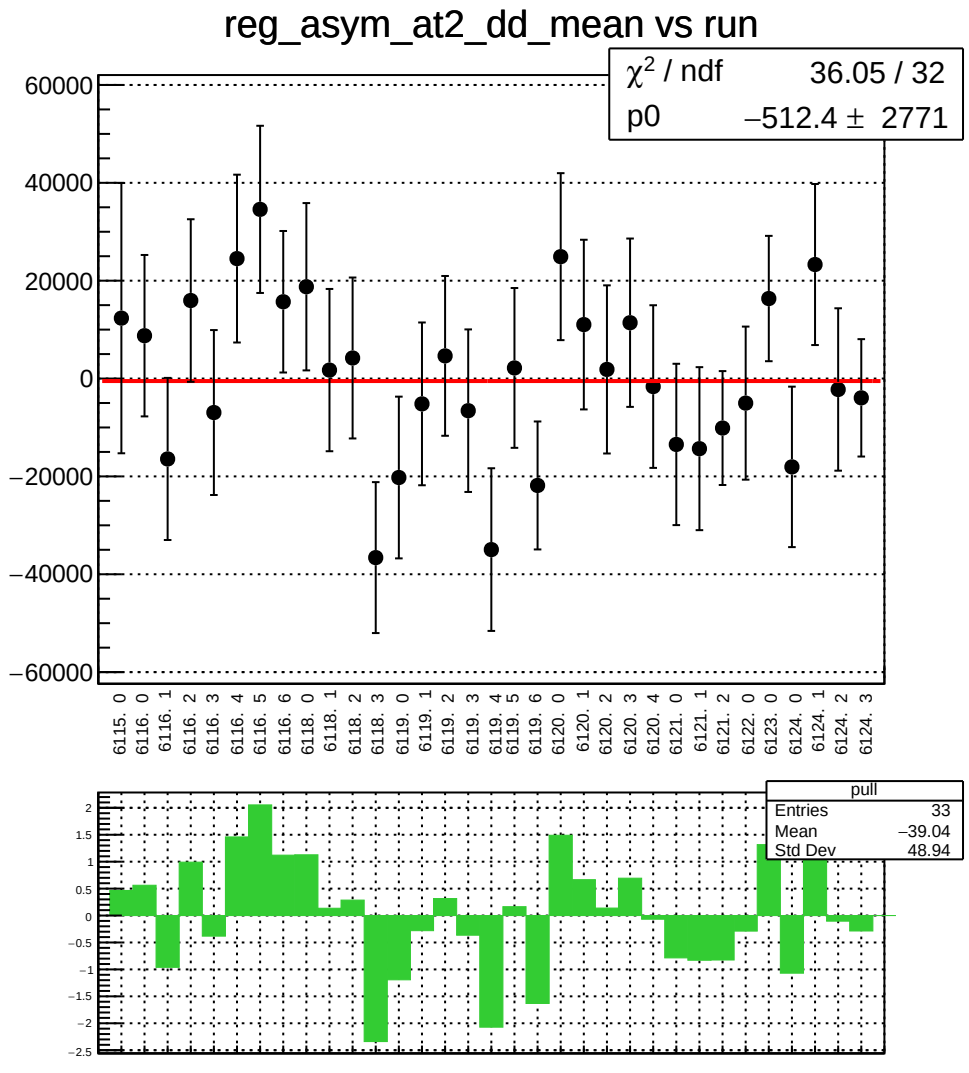

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 41.43 / 32
p0 1.098e+04 ± 1.257e+04
300
200
100
0
−100
−200
−300
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −134.9
Std Dev 142.6
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.007747
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

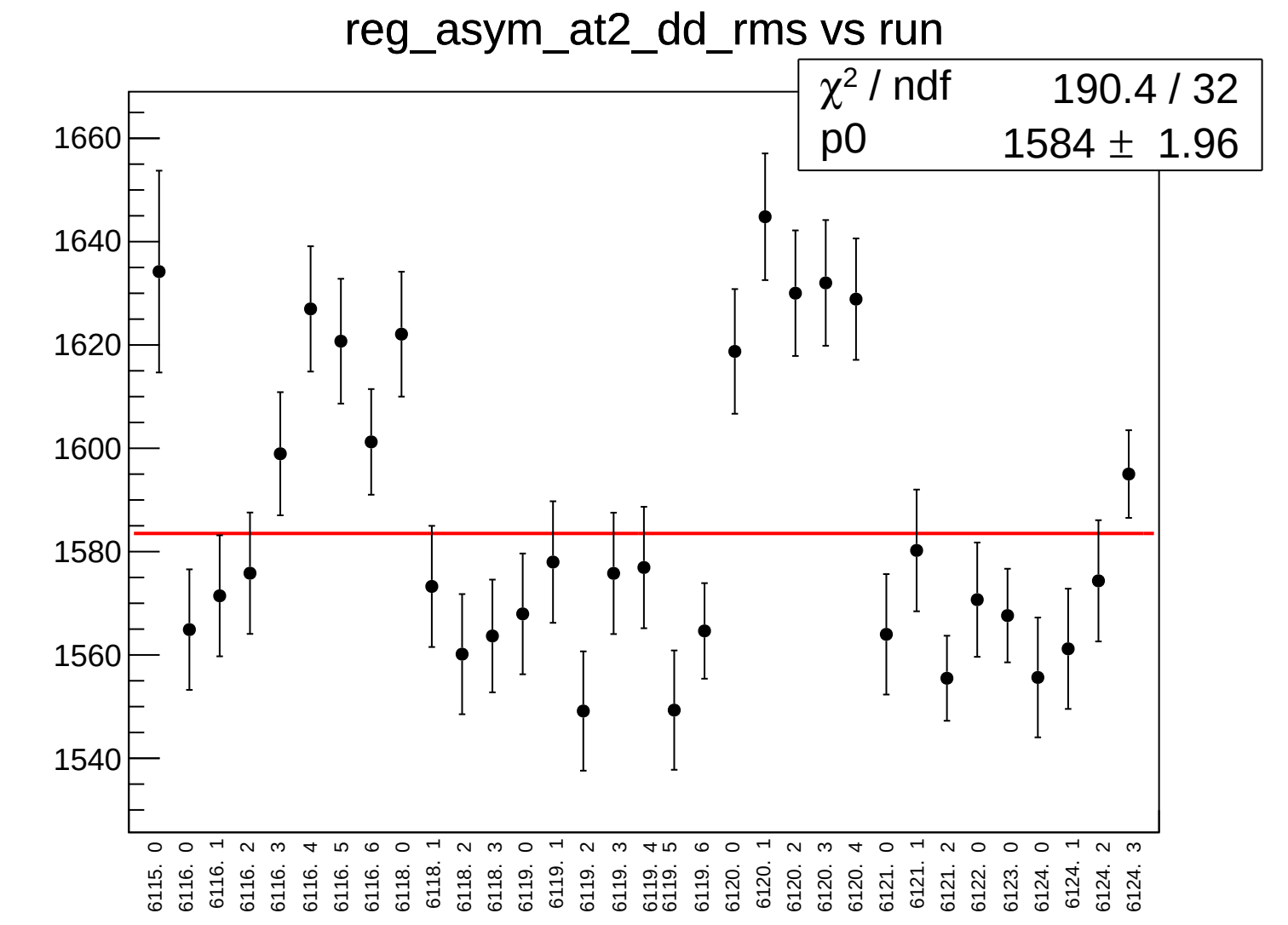

asym_at2_avg_correction_rms vs run
χ² / ndf 3418 / 32
p0 7165 ± 8.889
8000
7500
7000
6500
6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

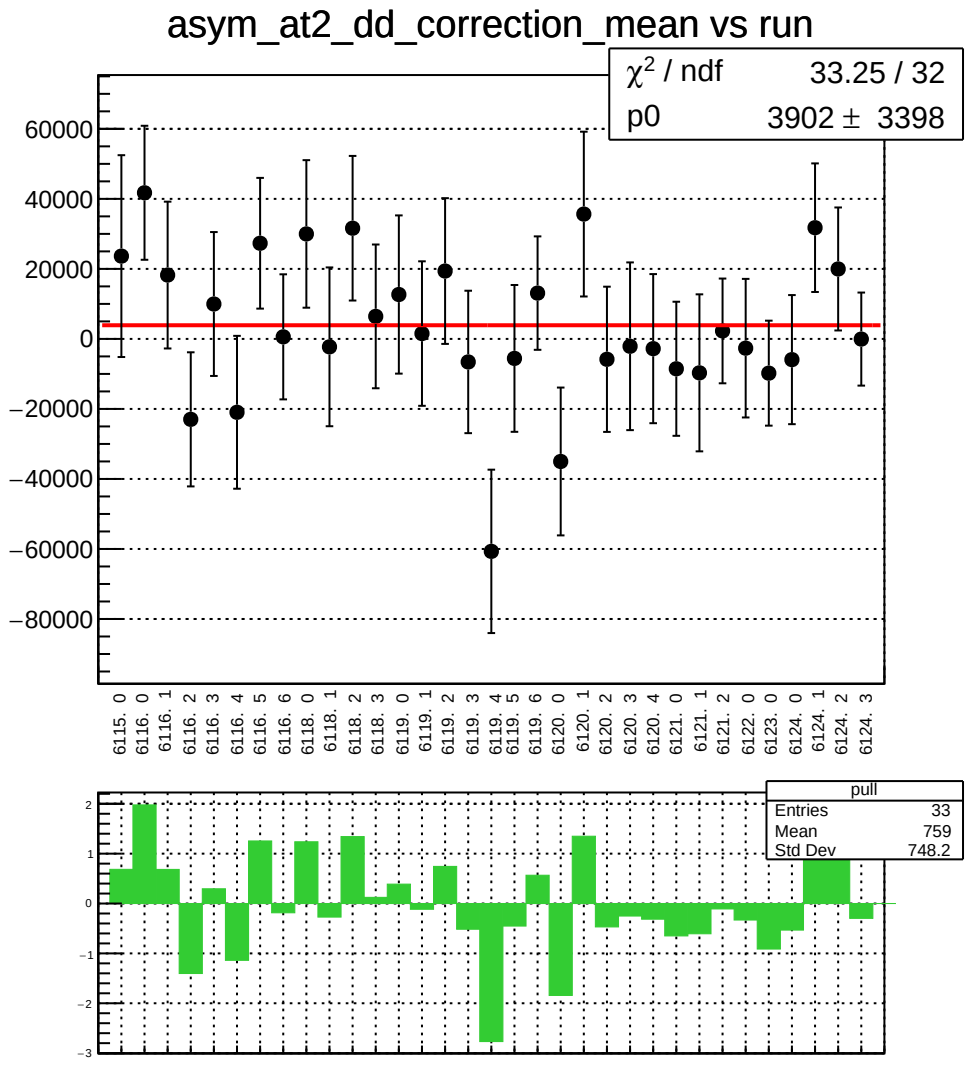

asym_at2_avg_mean vs run
×10^3
χ² / ndf 37.76 / 32
p0 −1.015e+04 ± 1.291e+04
400
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −226
Std Dev 232.9
3
2
1
0
−1
−2

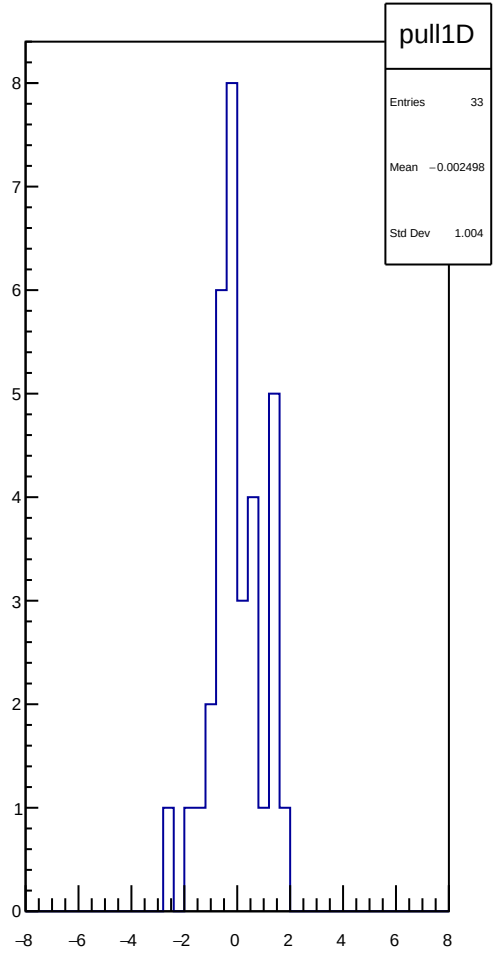

pull1D
Entries 33
Mean −0.003737
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

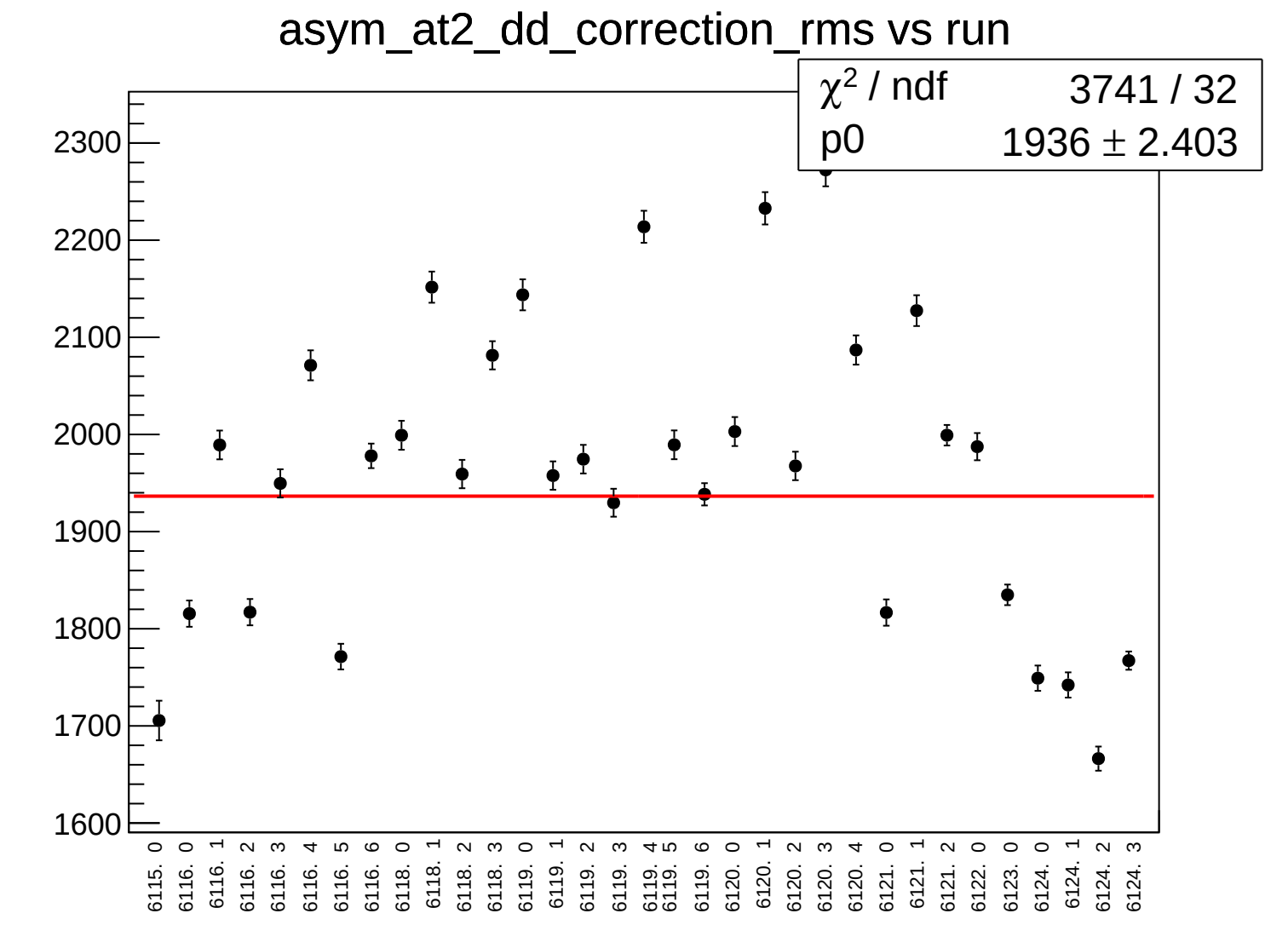

asym_at2_avg_rms vs run
χ² / ndf 3075 / 32
p0 7362 ± 9.131
8500
8000
7500
7000
6500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

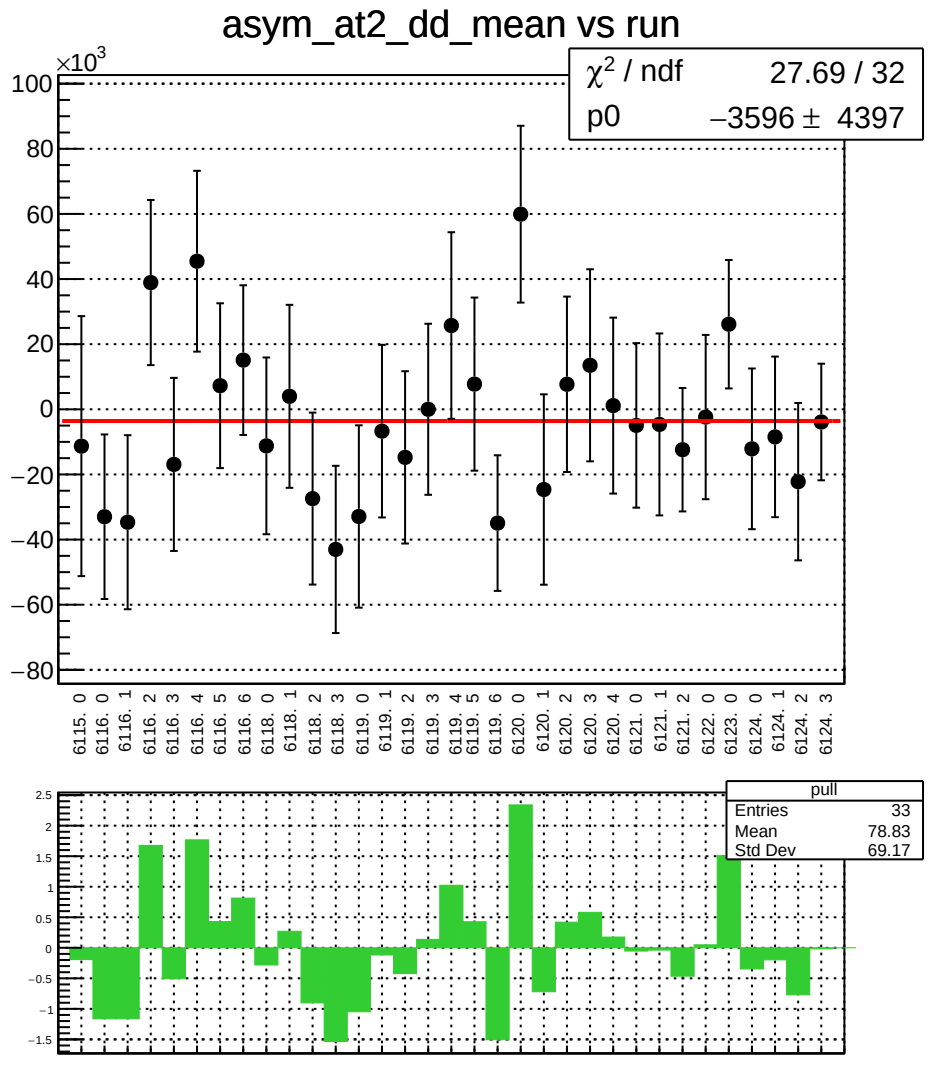

reg_asym_at2_dd_mean vs run
χ² / ndf 36.05 / 32
p0 −512.4 ± 2771
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −39.04
Std Dev 48.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.0288
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

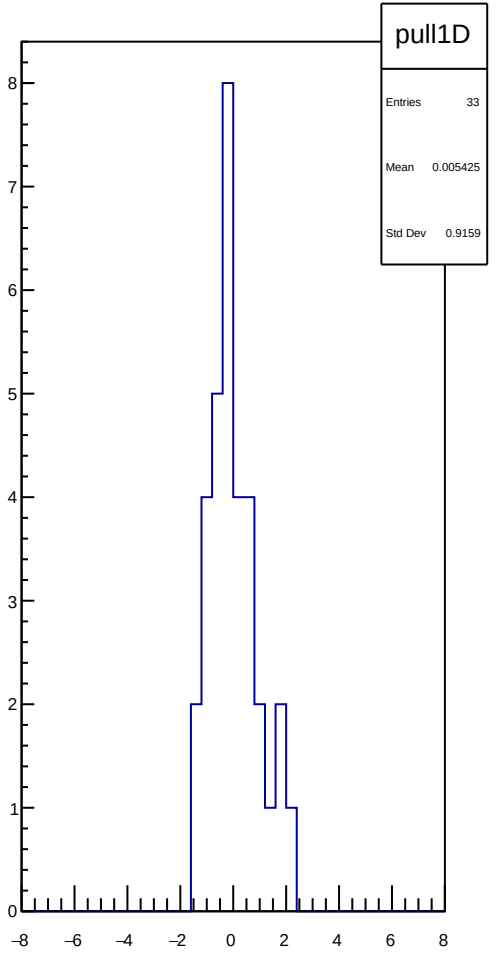

reg_asym_at2_dd_rms vs run
χ² / ndf 190.4 / 32
p0 1584 ± 1.96
1660
1640
1620
1600
1580
1560
1540
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

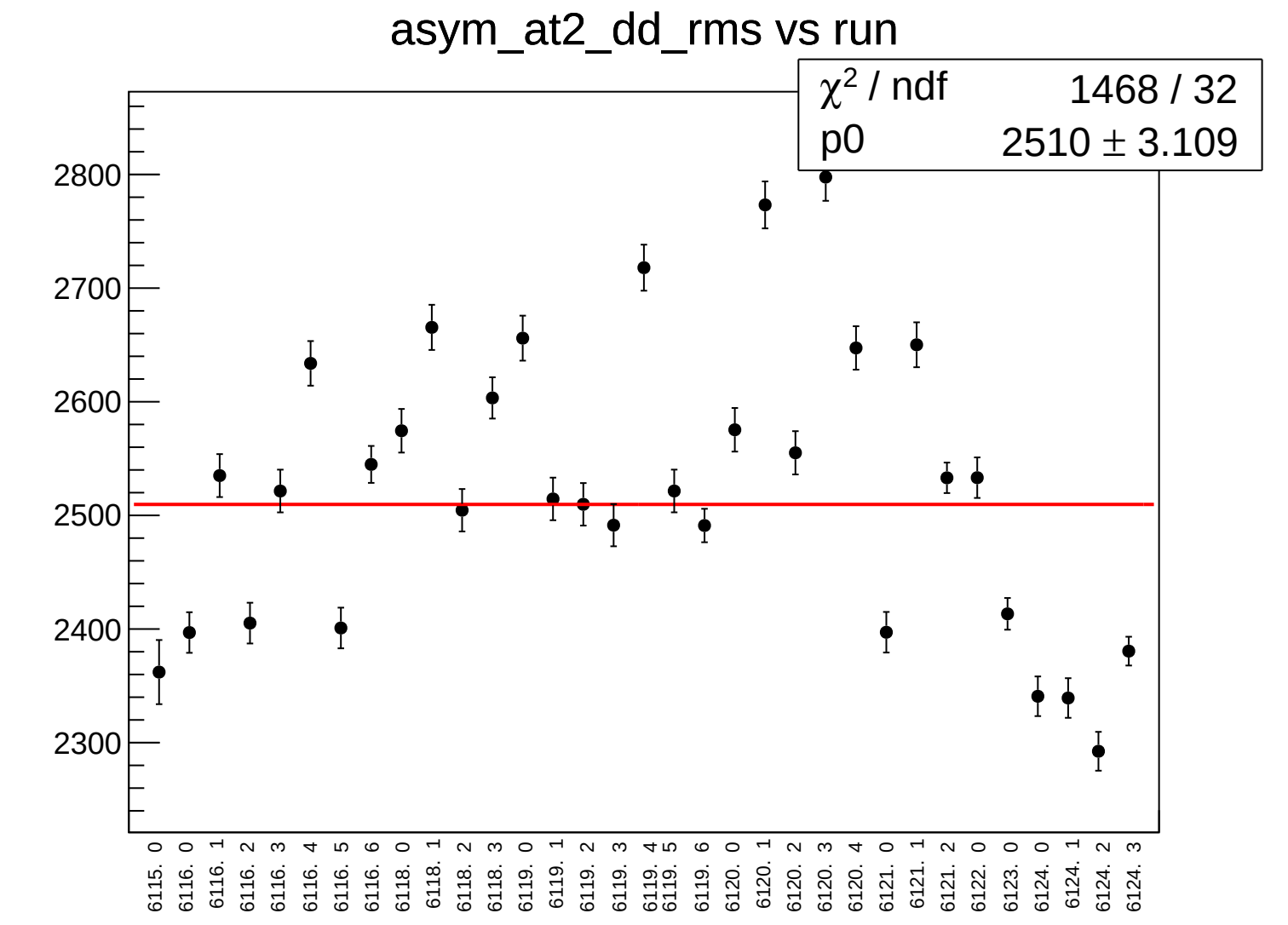

asym_at2_dd_correction_mean vs run
χ² / ndf 33.25 / 32
p0 3902 ± 3398
60000
40000
20000
0
−20000
−40000
−60000
−80000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 759
Std Dev 748.2
2
1
0
−1
−2
−3

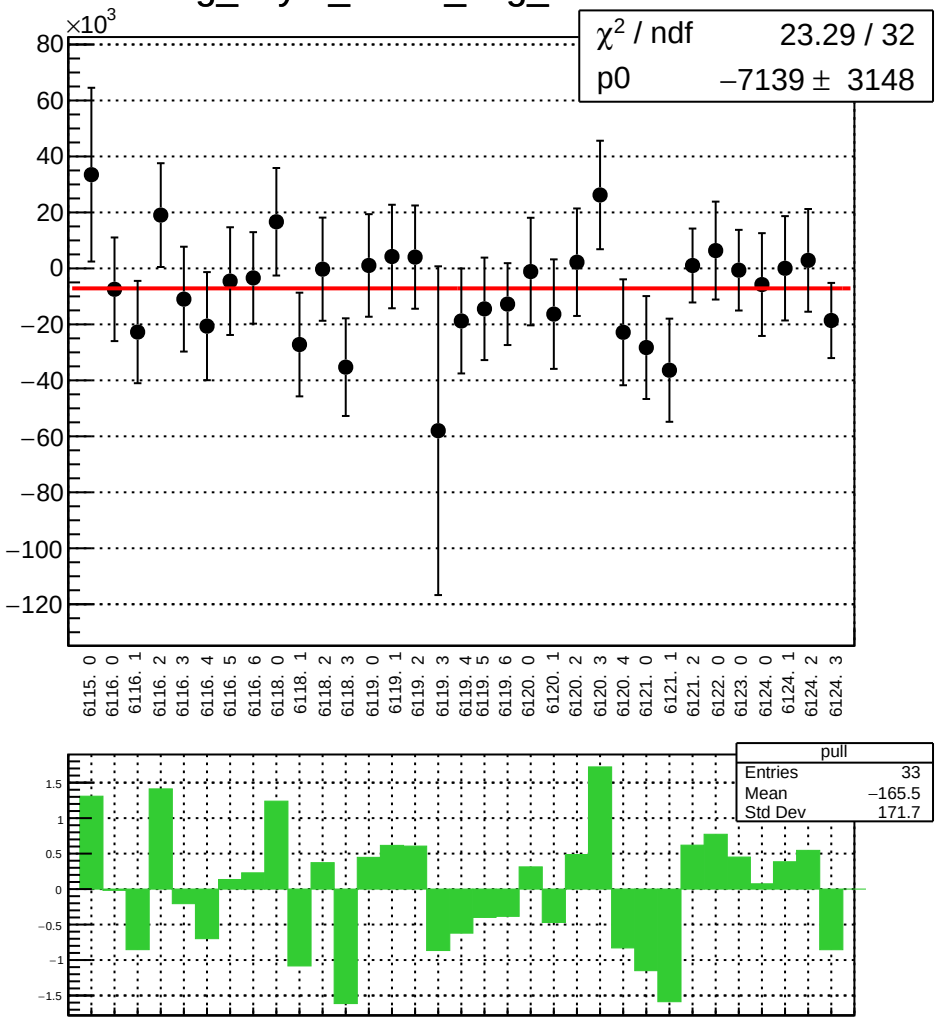

pull1D
Entries 33
Mean −0.002498
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

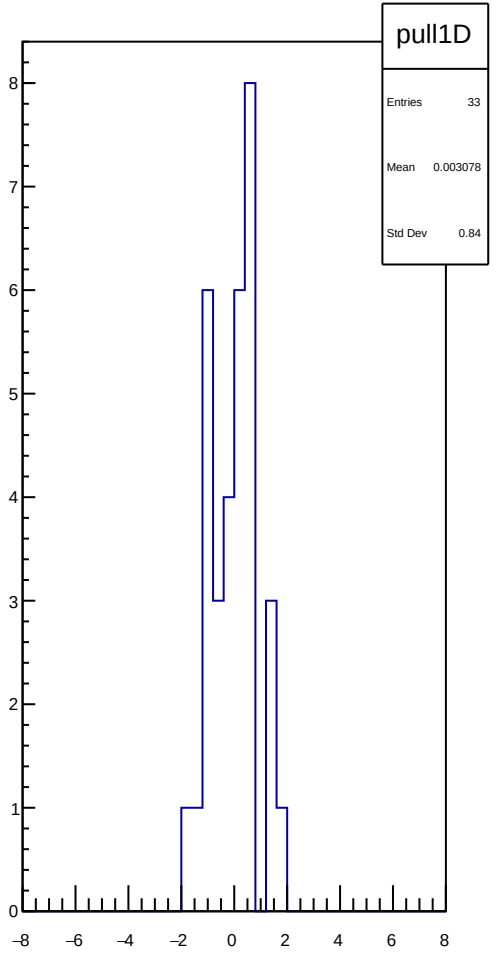

asym_at2_dd_correction_rms vs run
χ² / ndf 3741 / 32
p0 1936 ± 2.403
2300
2200
2100
2000
1900
1800
1700
1600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

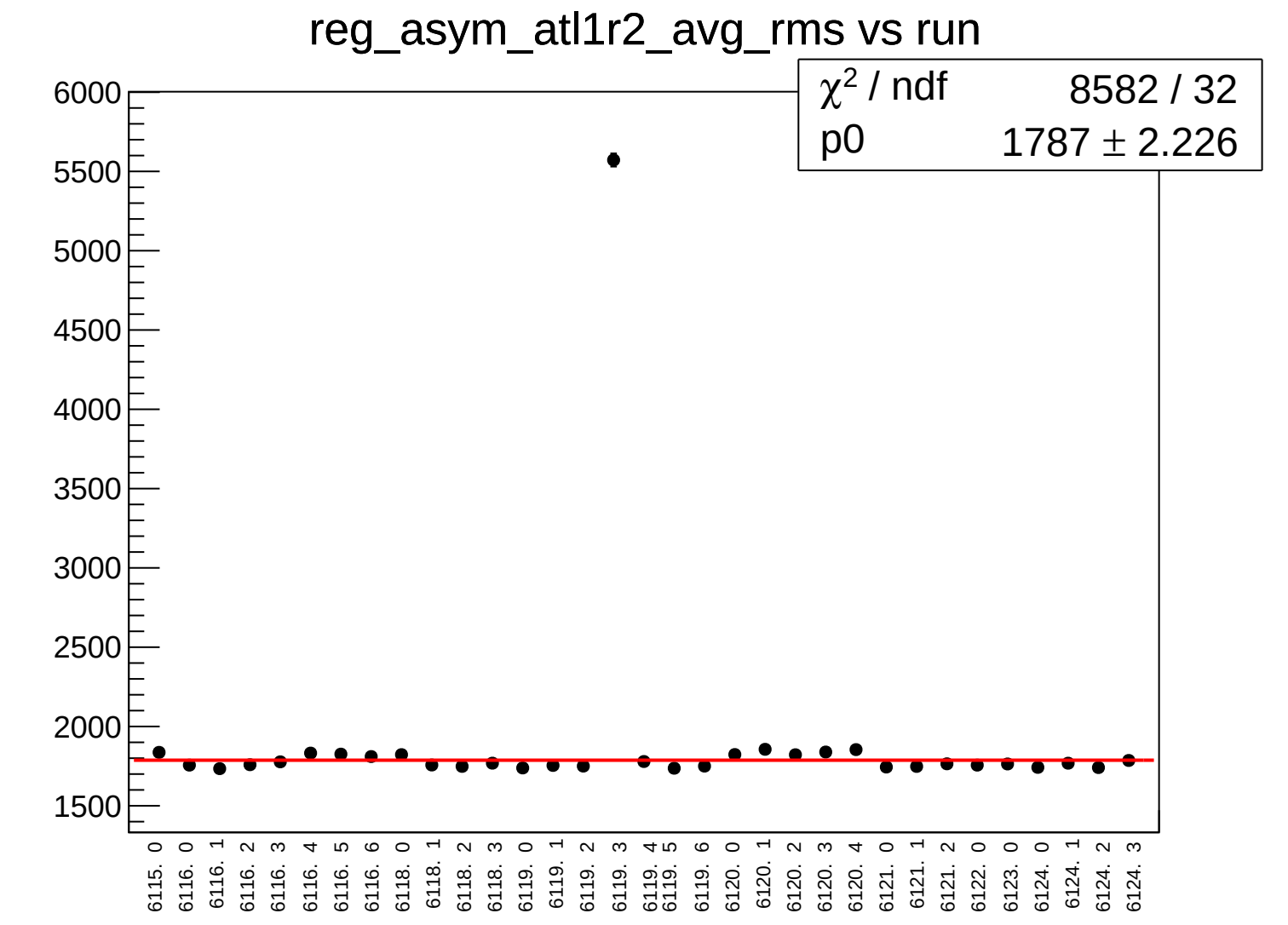

asym_at2_dd_mean vs run
×10^3
χ² / ndf 27.69 / 32
p0 −3596 ± 4397
100
80
60
40
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 78.83
Std Dev 69.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

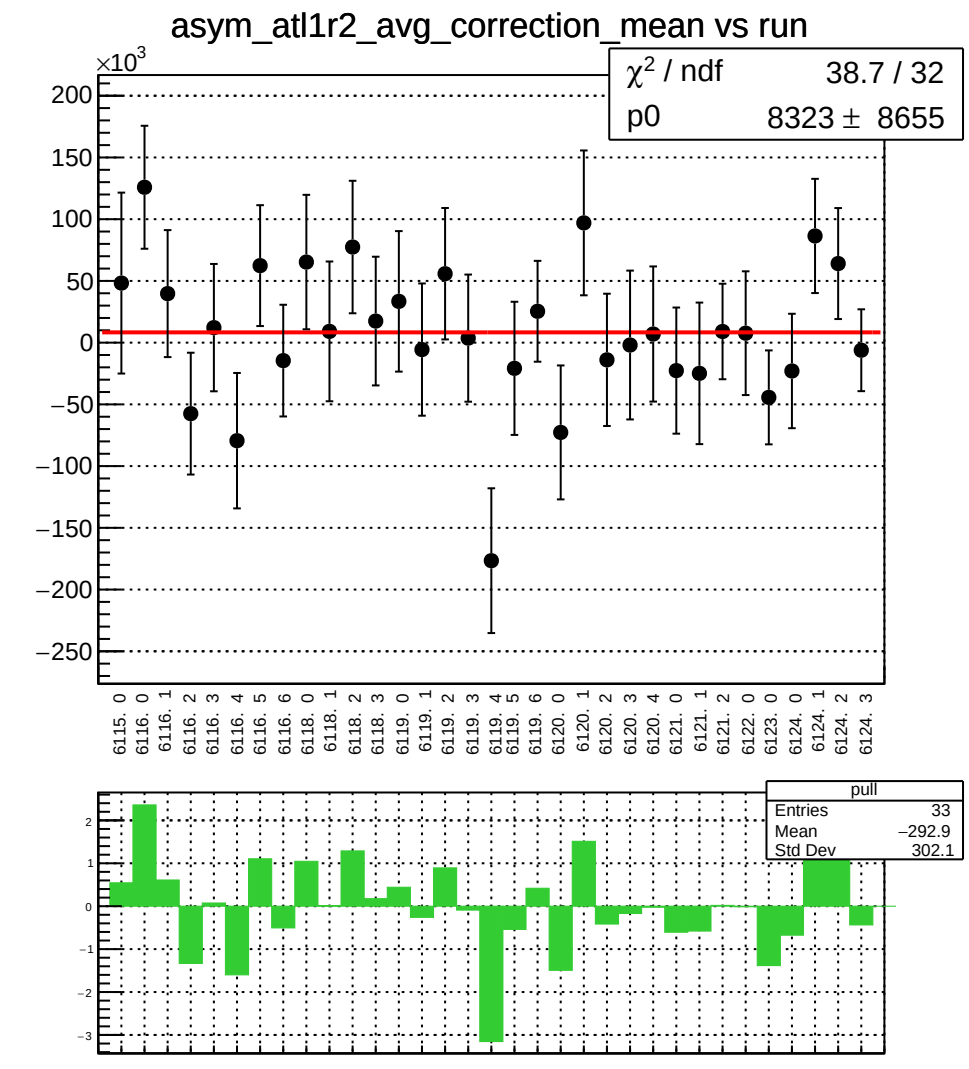

pull1D
Entries 33
Mean 0.005425
Std Dev 0.9159
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

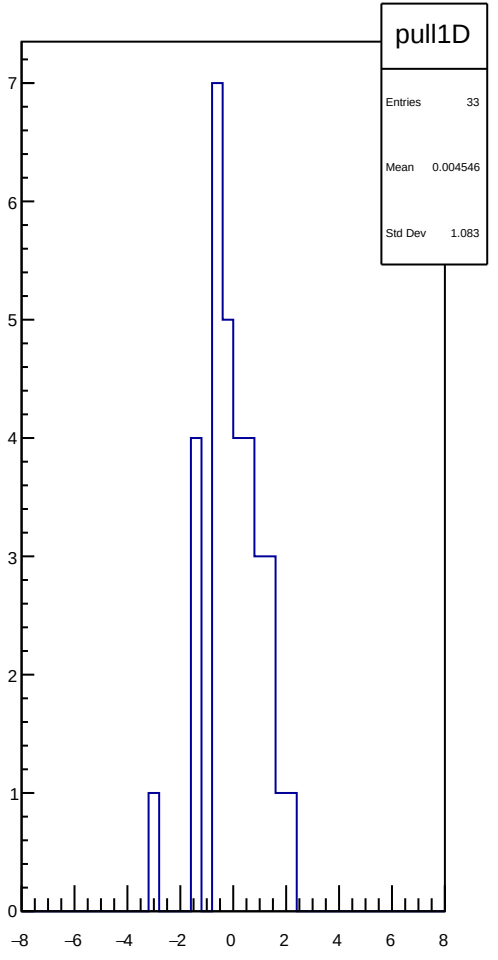

asym_at2_dd_rms vs run
χ² / ndf 1468 / 32
p0 2510 ± 3.109
2800
2700
2600
2500
2400
2300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

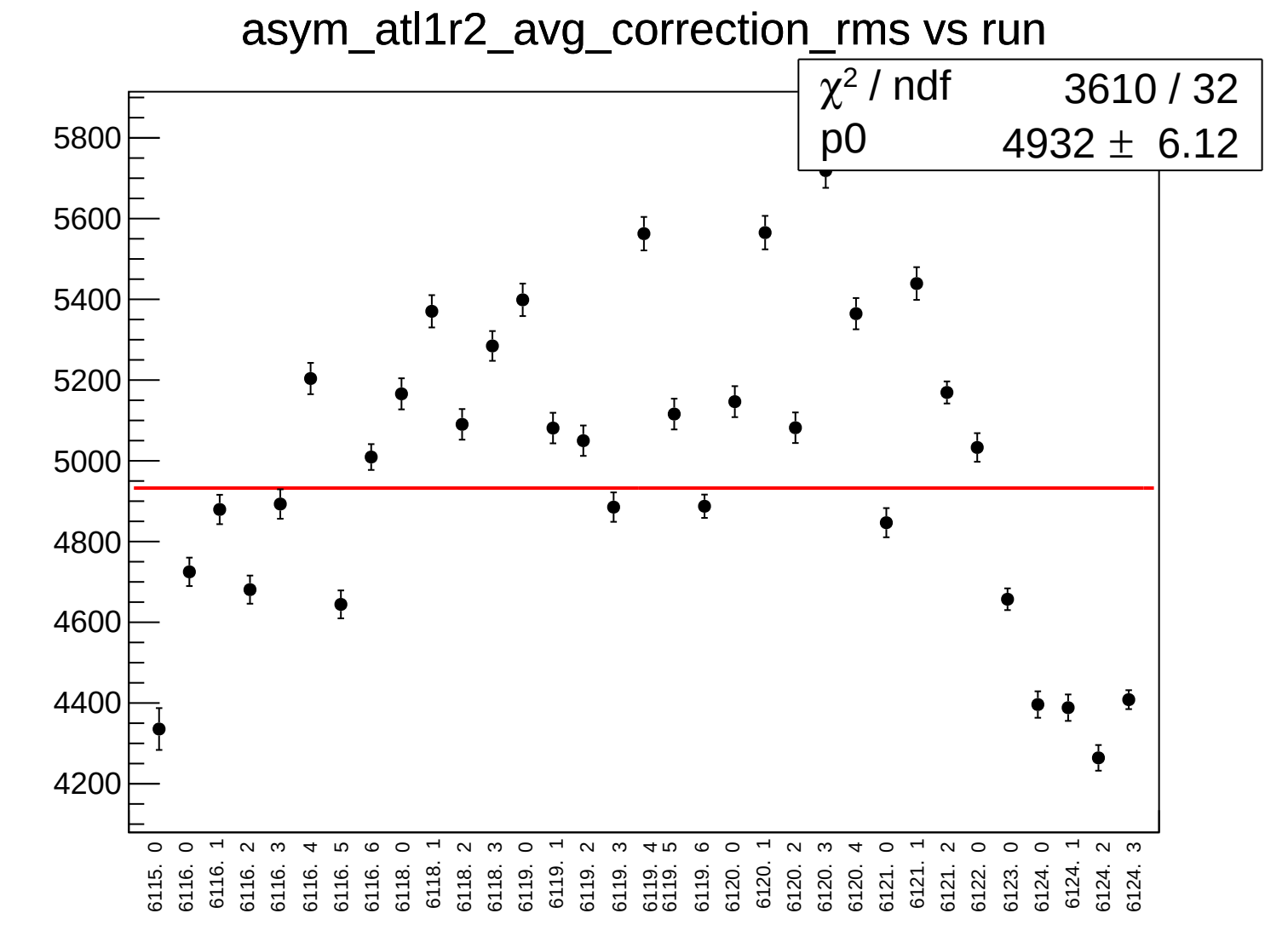

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 23.29 / 32
p0 −7139 ± 3148
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −165.5
Std Dev 171.7
1.5
1
0.5
0
−0.5
−1
−1.5

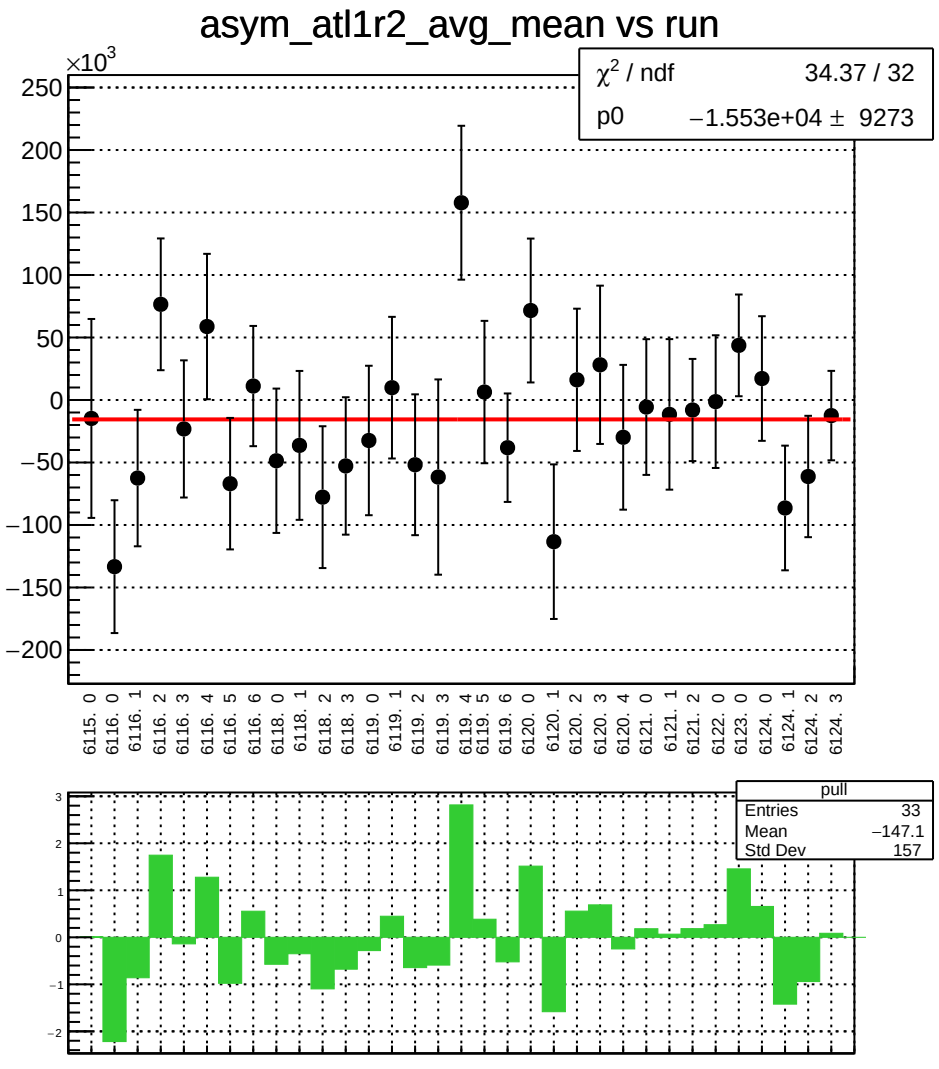

pull1D
Entries 33
Mean 0.003078
Std Dev 0.84
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

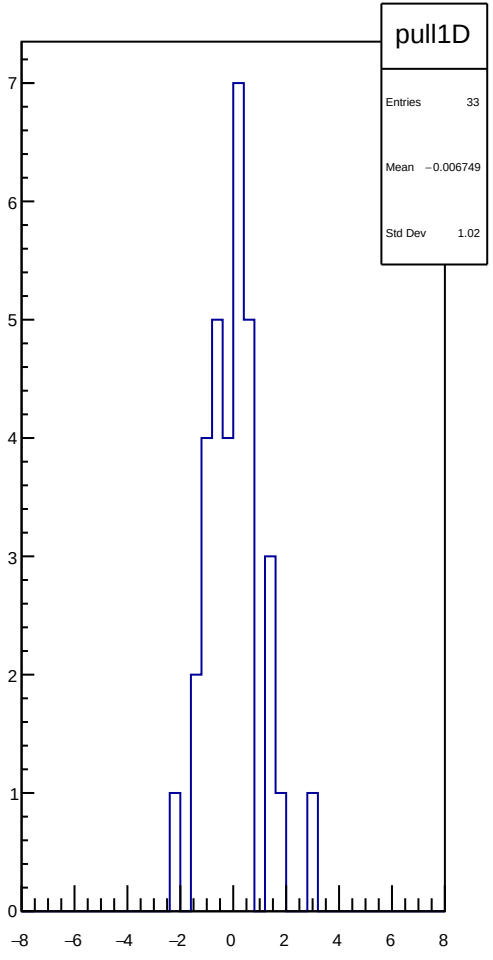

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8582 / 32
p0 1787 ± 2.226
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

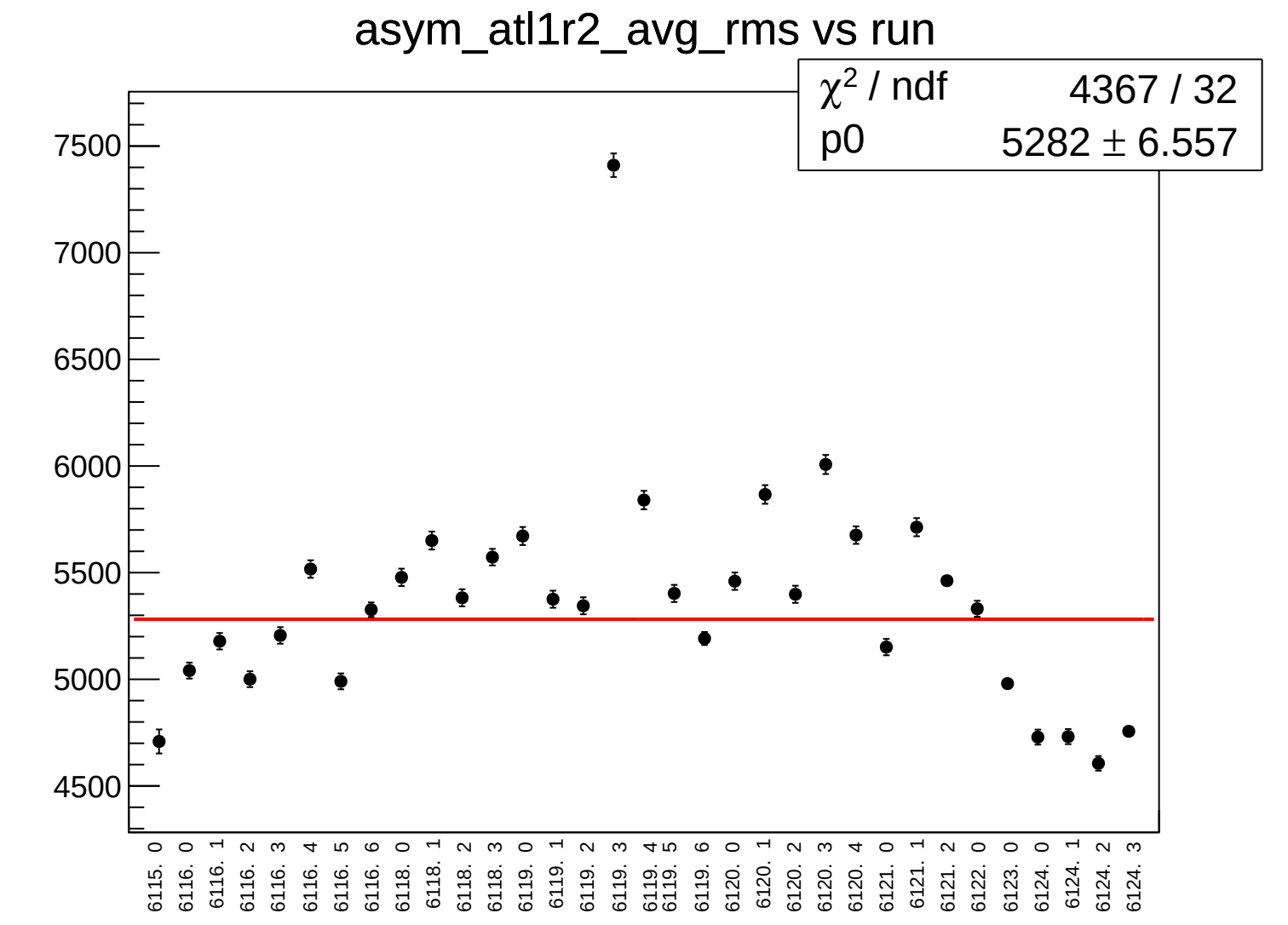

asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 38.7 / 32
p0 8323 ± 8655
200
150
100
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −292.9
Std Dev 302.1
2
1
0
−1
−2
−3

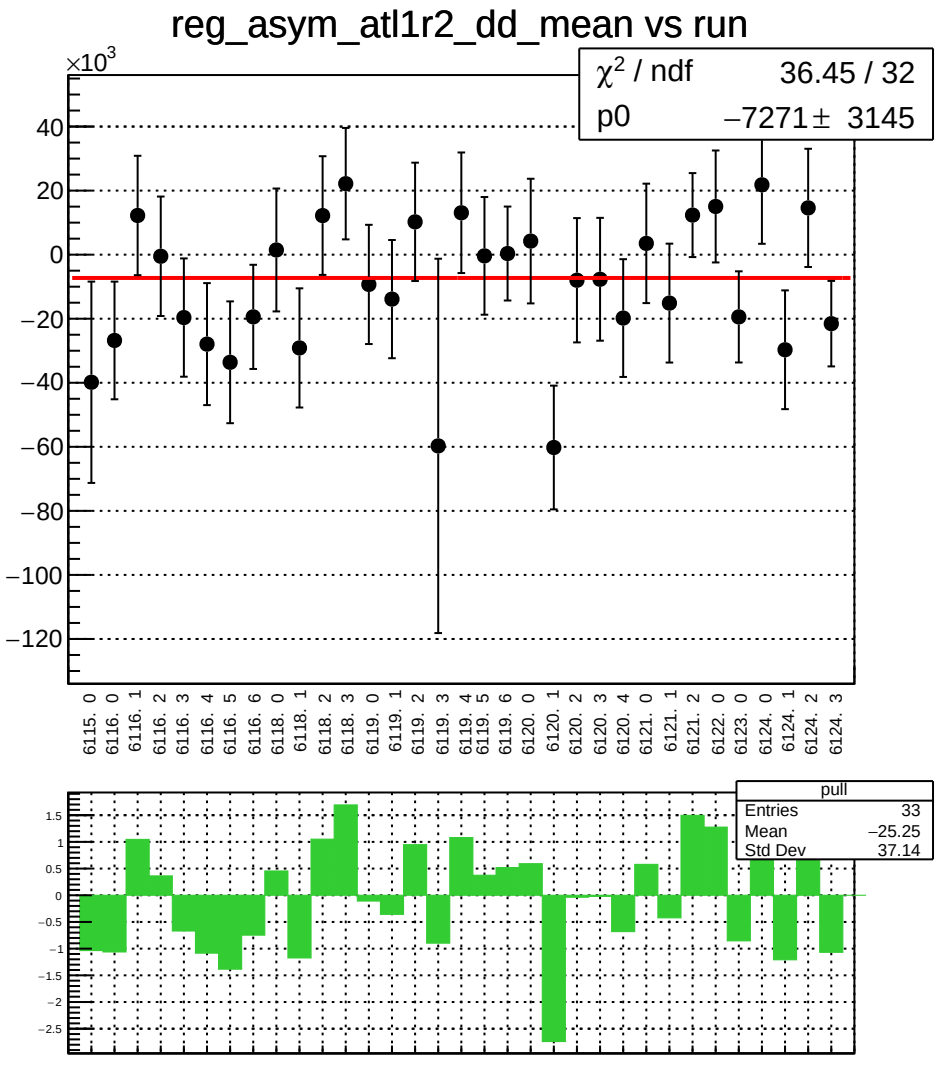

pull1D
Entries 33
Mean 0.004546
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

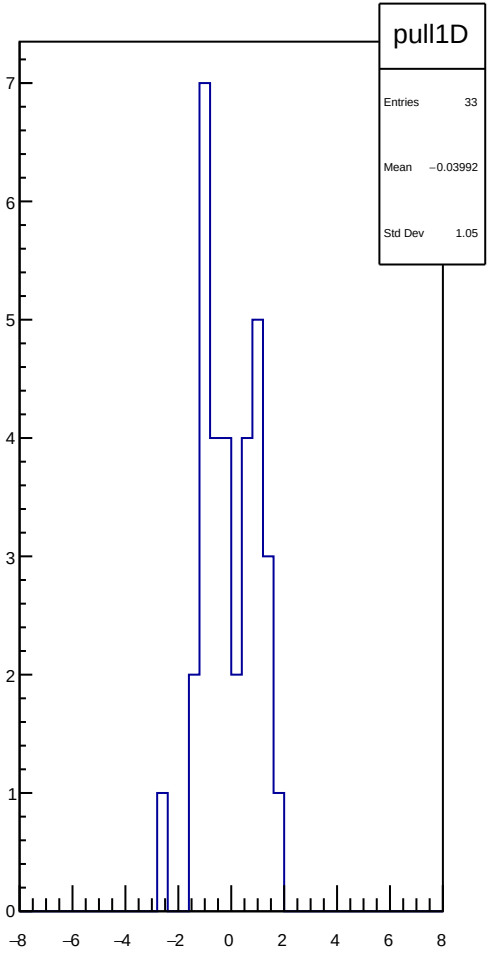

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3610 / 32
p0 4932 ± 6.12
5800
5600
5400
5200
5000
4800
4600
4400
4200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

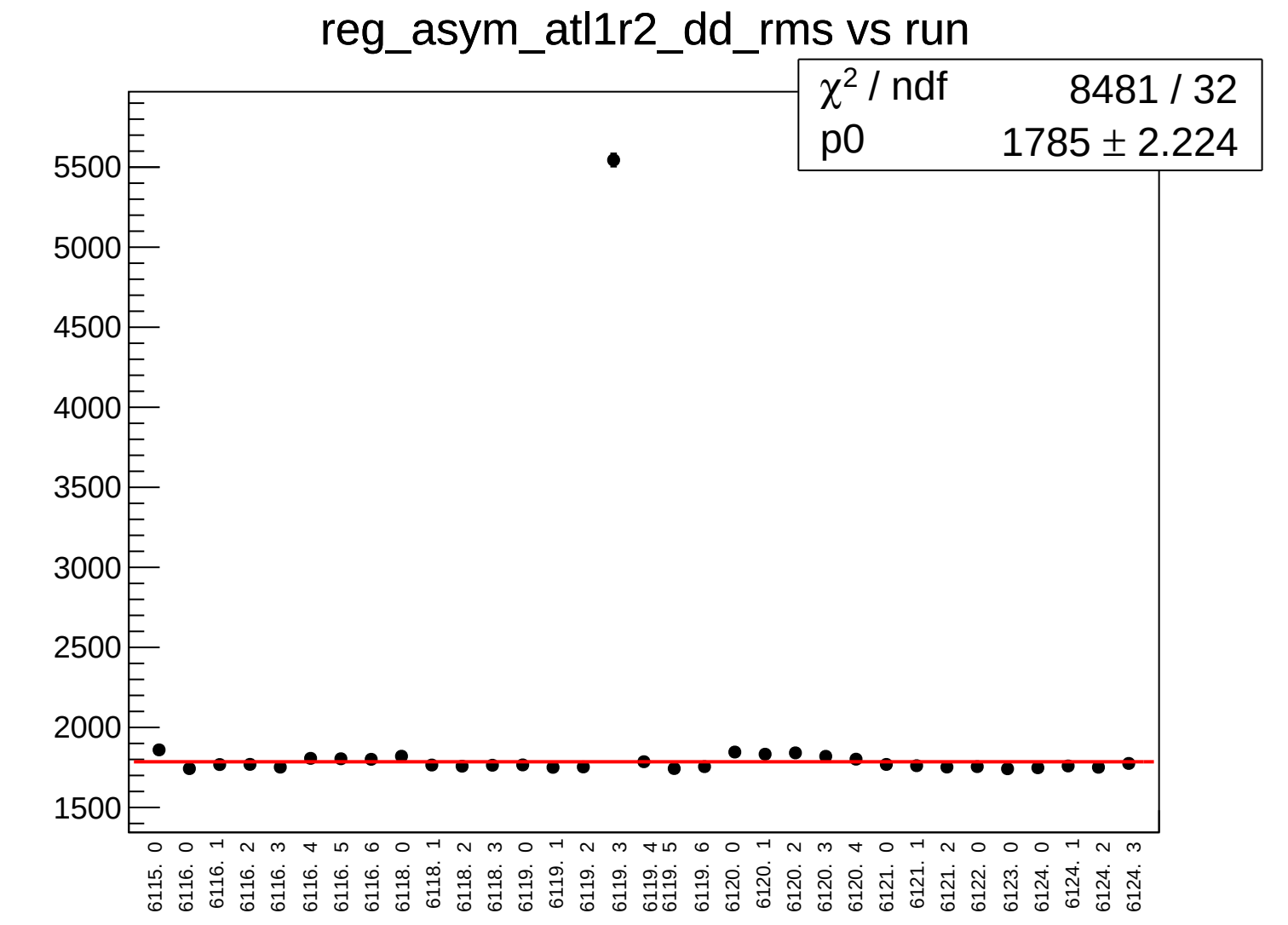

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 34.37 / 32
p0 −1.553e+04 ± 9273
250
200
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −147.1
Std Dev 157
3
2
1
0
−1
−2

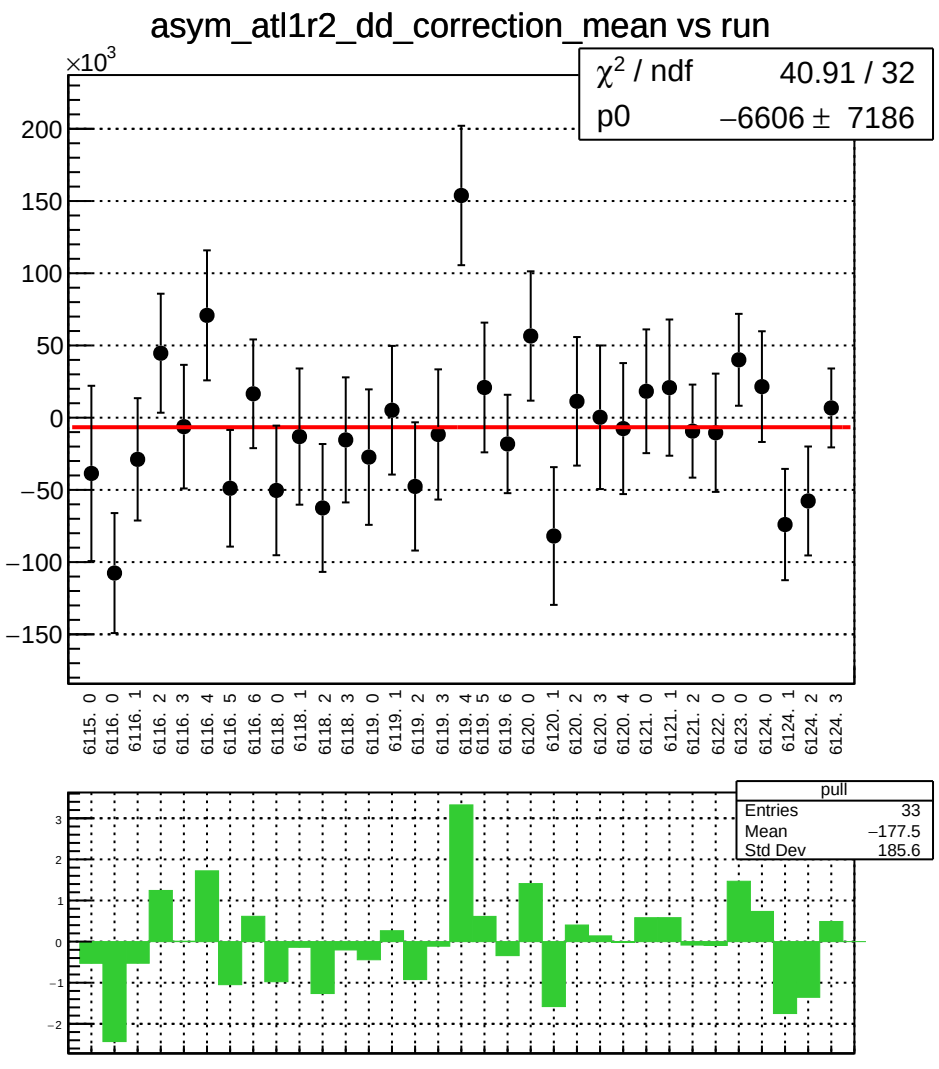

pull1D
Entries 33
Mean −0.006749
Std Dev 1.02
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

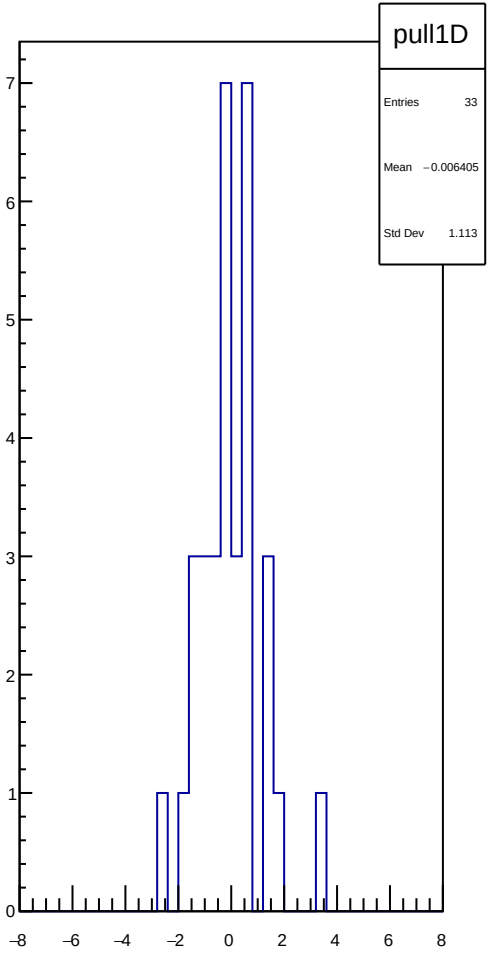

asym_atl1r2_avg_rms vs run
χ² / ndf 4367 / 32
p0 5282 ± 6.557
7500
7000
6500
6000
5500
5000
4500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

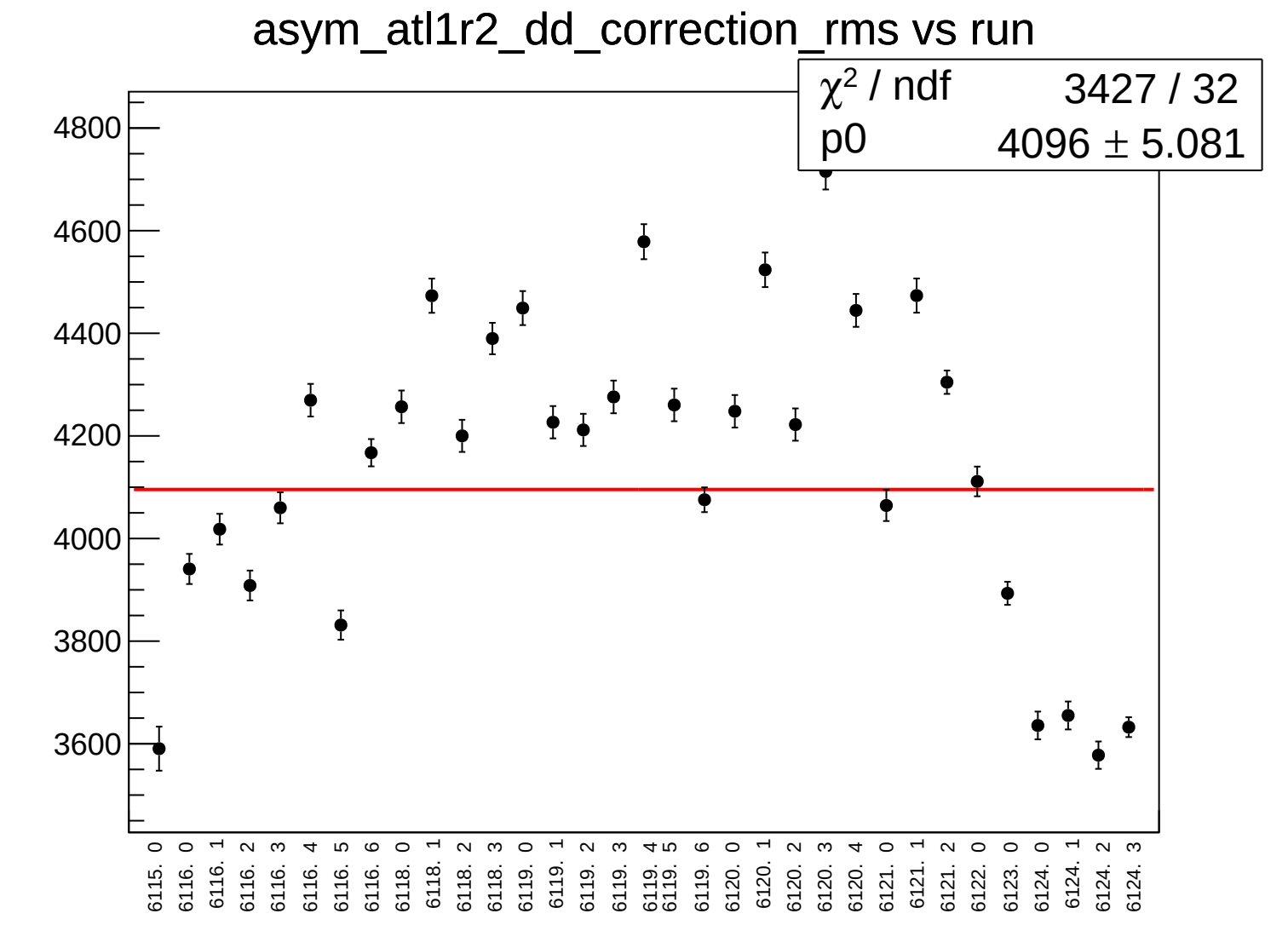

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 36.45 / 32
p0 −7271 ± 3145
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −25.25
Std Dev 37.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

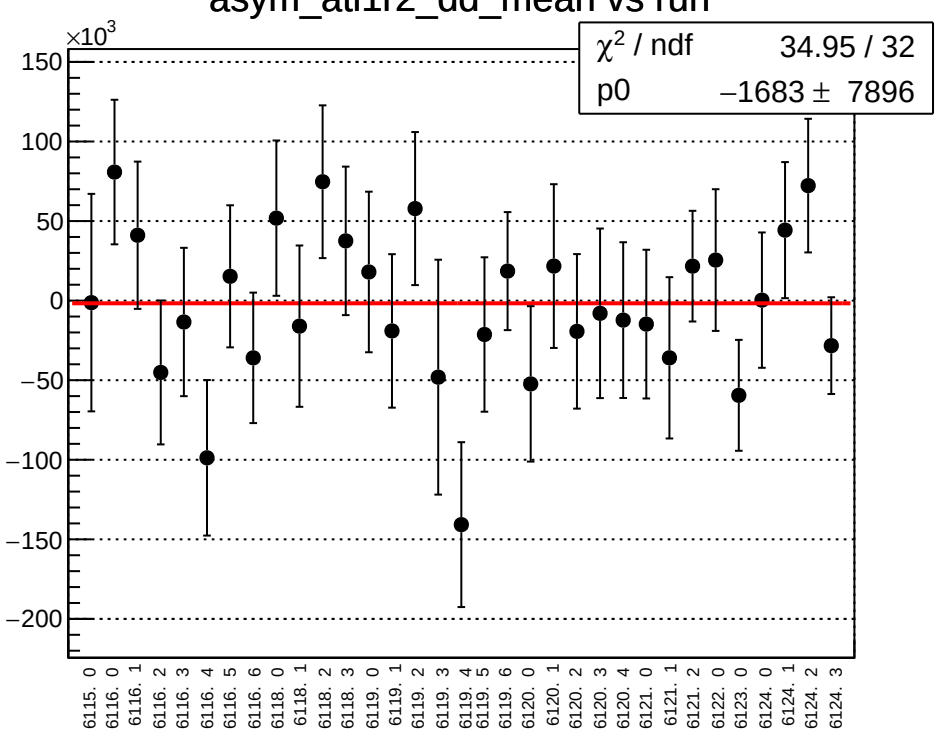

pull1D
Entries 33
Mean −0.03992
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

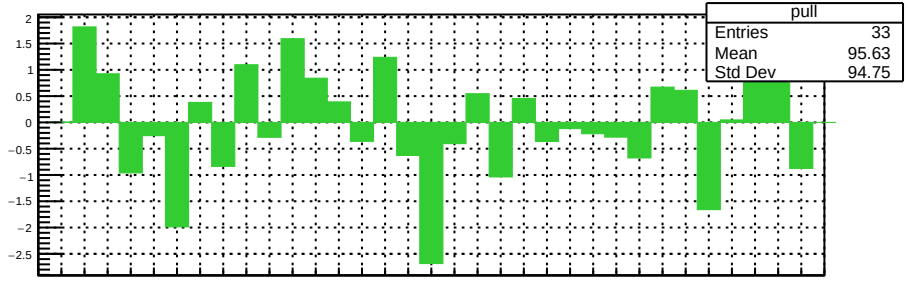

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 8481 / 32
p0 1785 ± 2.224
5500
5000
4500
4000
3500
3000
2500
2000
1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

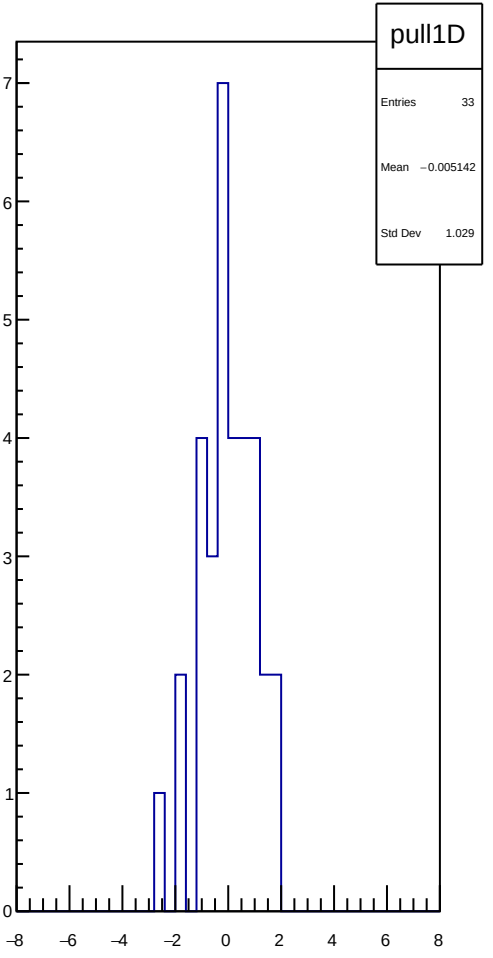

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 40.91 / 32
p0 −6606 ± 7186
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −177.5
Std Dev 185.6
3
2
1
0
−1
−2

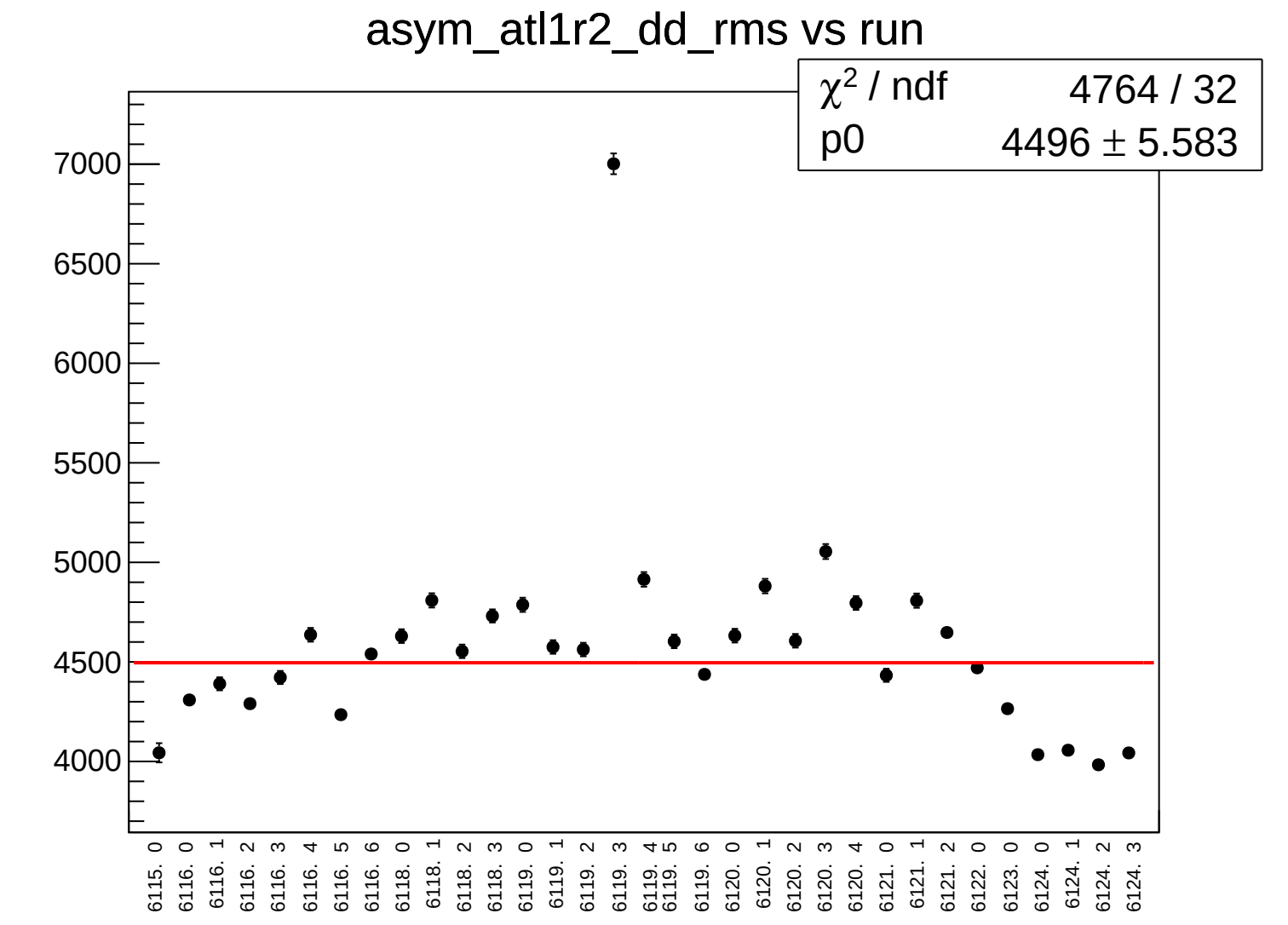

pull1D
Entries 33
Mean −0.006405
Std Dev 1.113
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

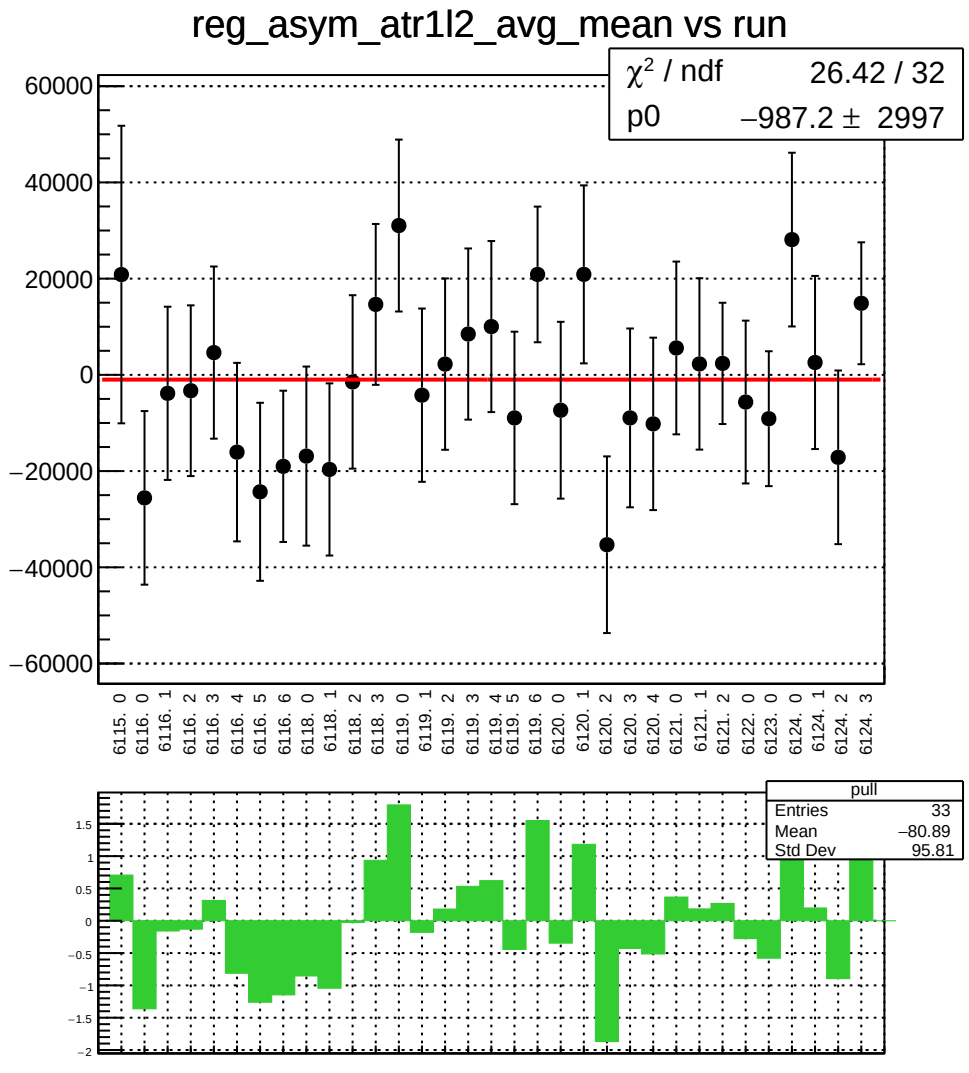

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3427 / 32
p0 4096 ± 5.081
4800
4600
4400
4200
4000
3800
3600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

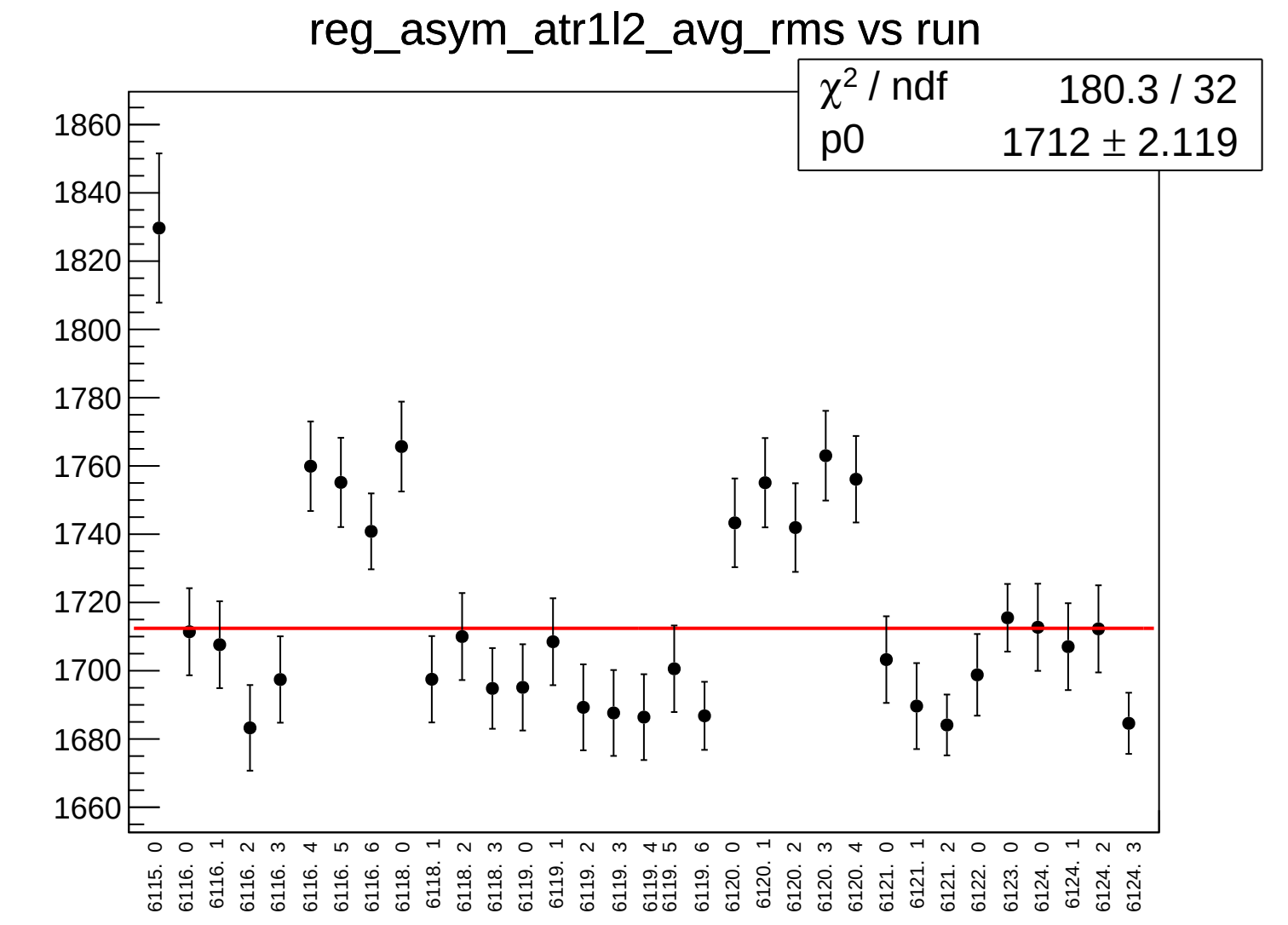

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 34.95 / 32
p0 −1683 ± 7896
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

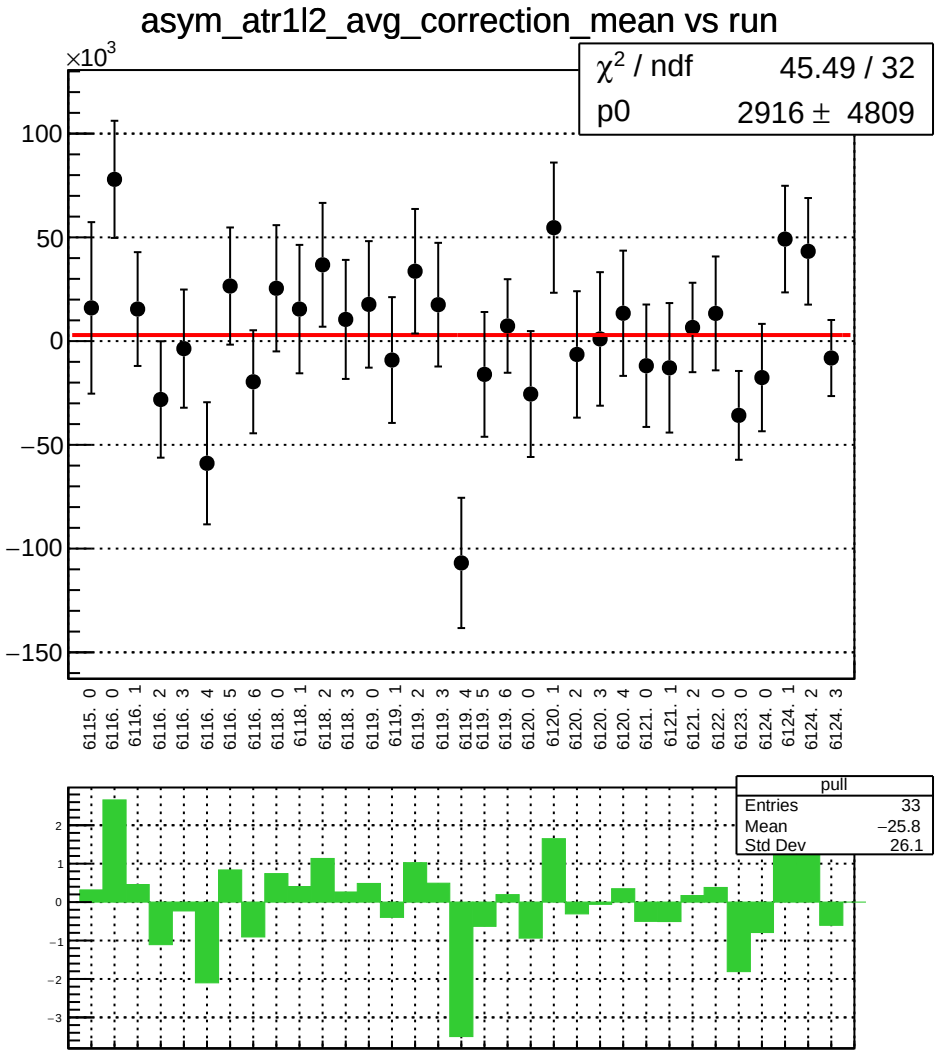

pull
Entries 33
Mean 95.63
Std Dev 94.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

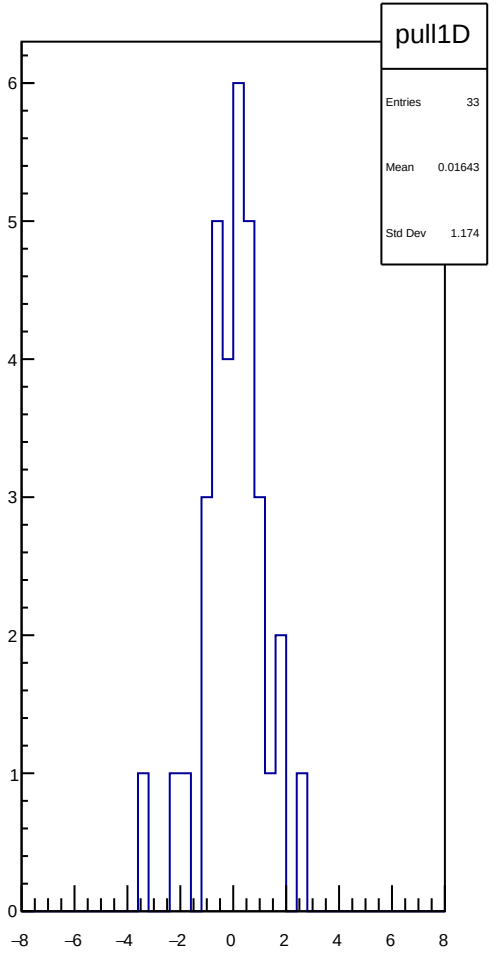

pull1D
Entries 33
Mean −0.005142
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

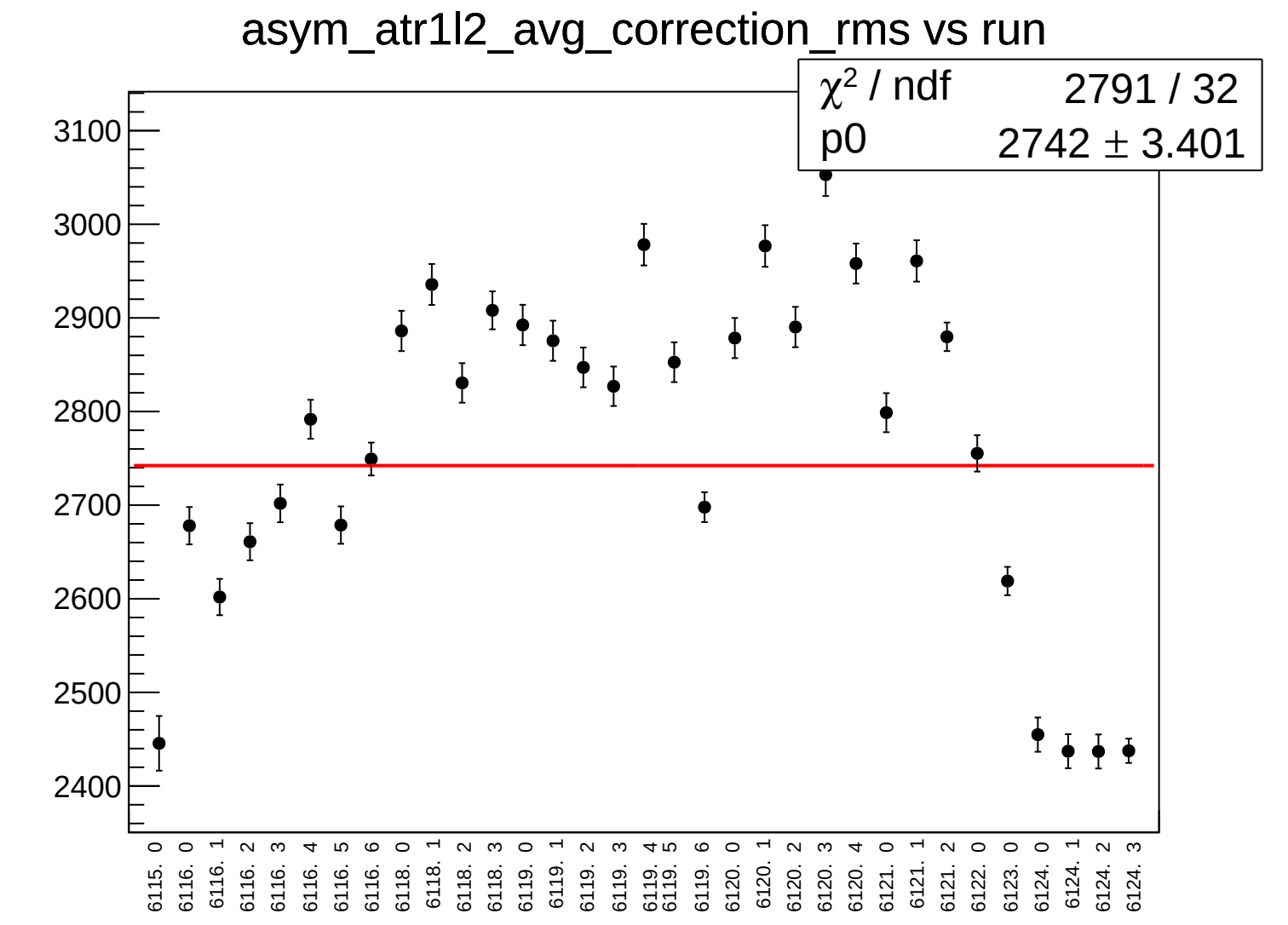

asym_atl1r2_dd_rms vs run
χ² / ndf 4764 / 32
p0 4496 ± 5.583
7000
6500
6000
5500
5000
4500
4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

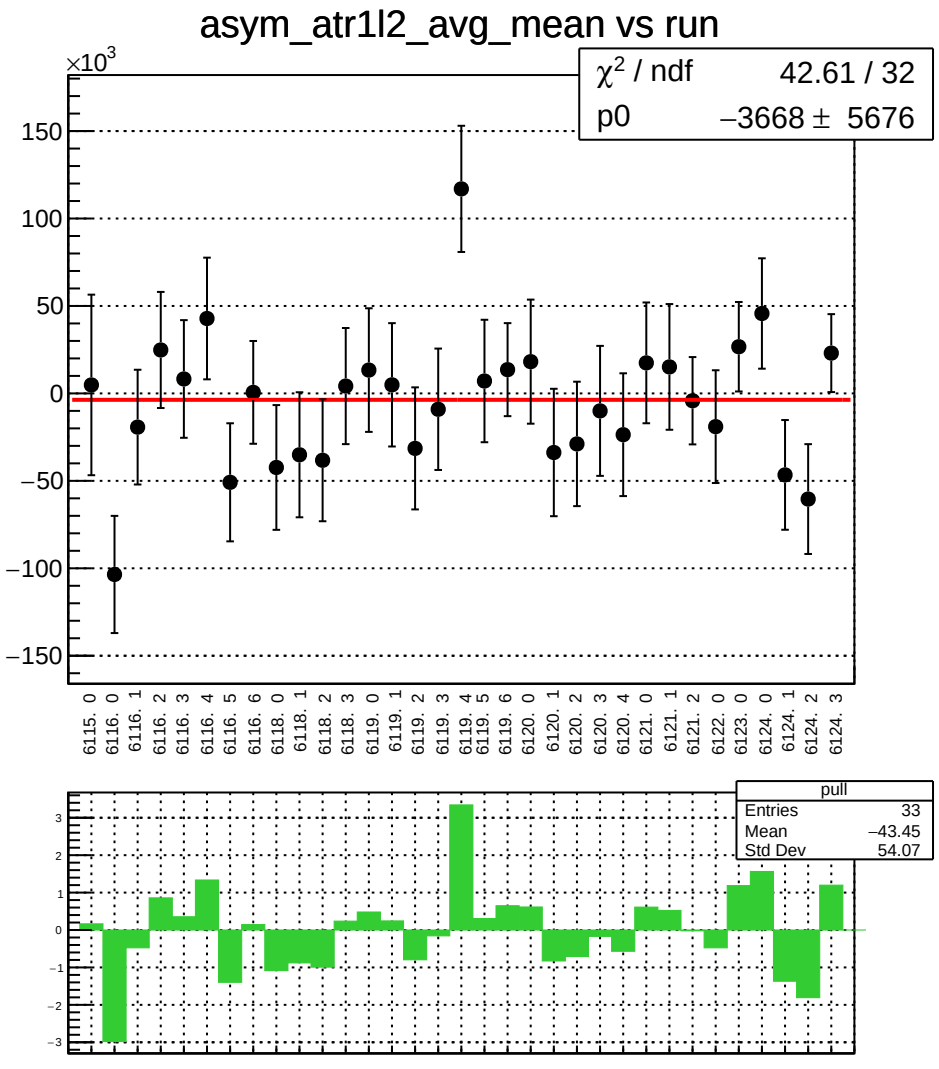

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 26.42 / 32
p0 −987.2 ± 2997
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −80.89
Std Dev 95.81
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01919
Std Dev 0.8945
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

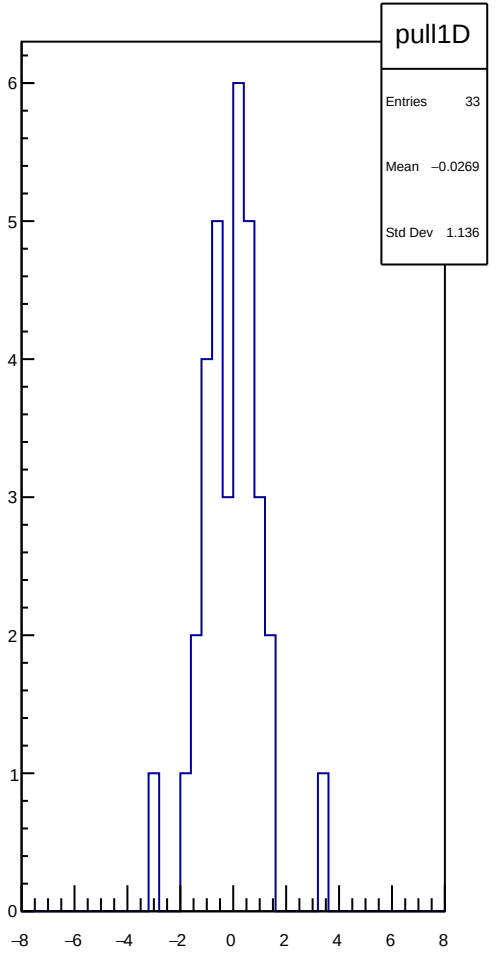

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 180.3 / 32
p0 1712 ± 2.119
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

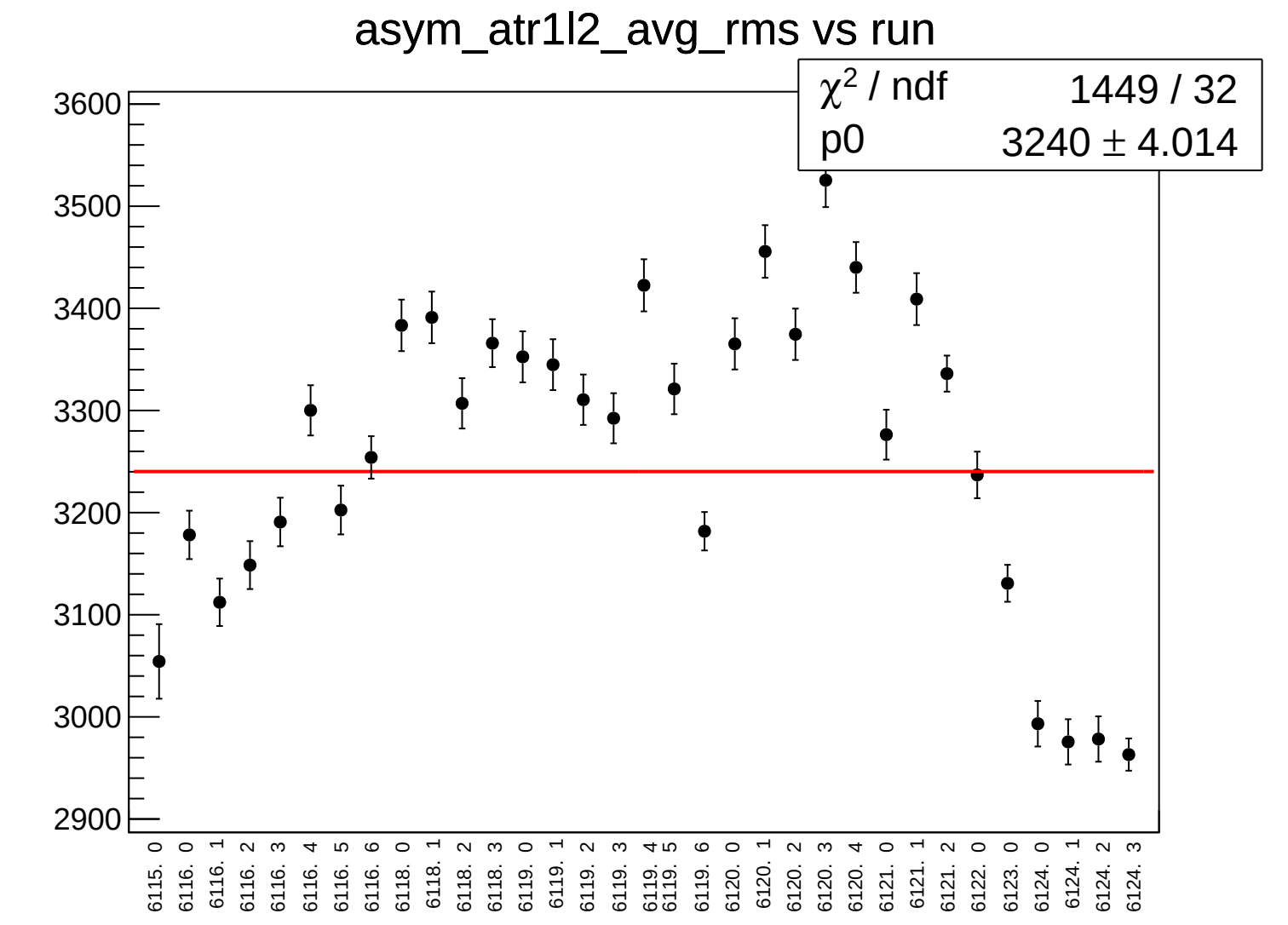

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 45.49 / 32
p0 2916 ± 4809
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −25.8
Std Dev 26.1
2
1
0
−1
−2
−3

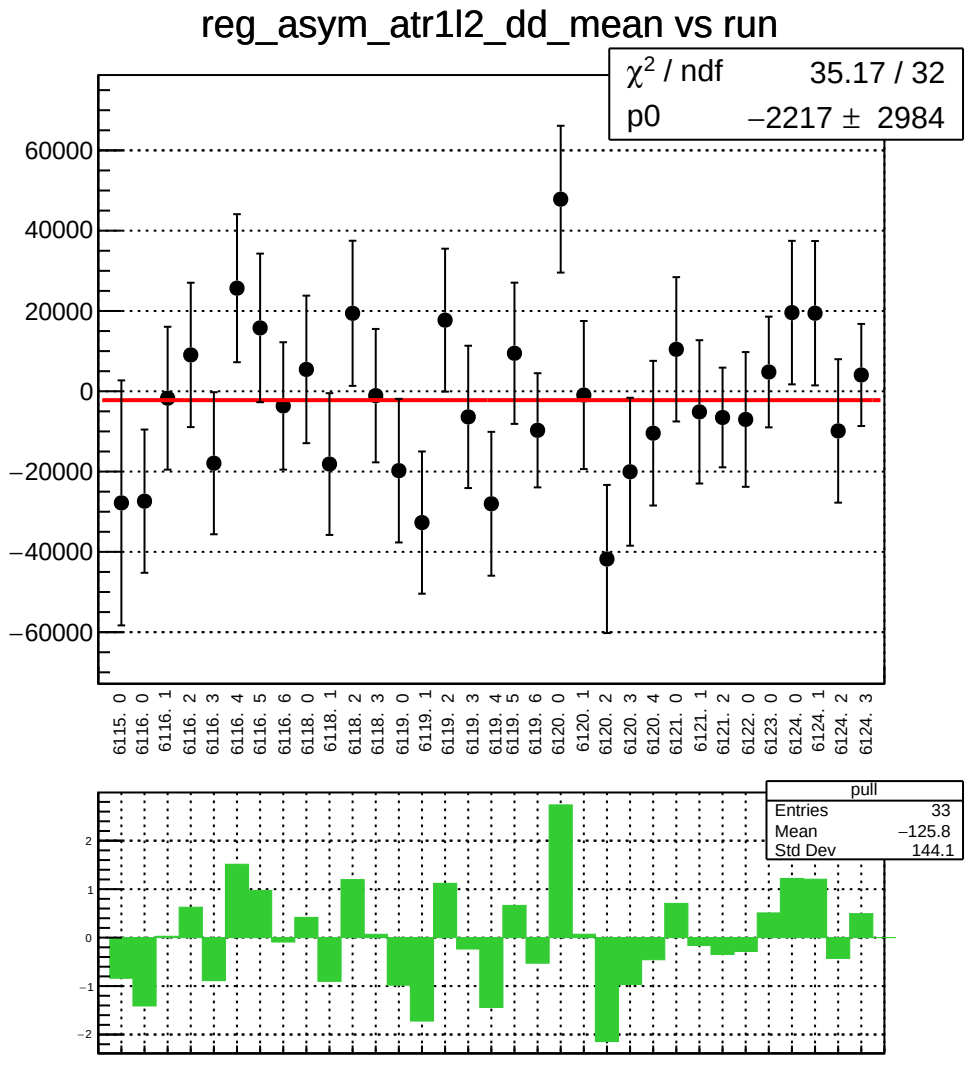

pull1D
Entries 33
Mean 0.01643
Std Dev 1.174
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

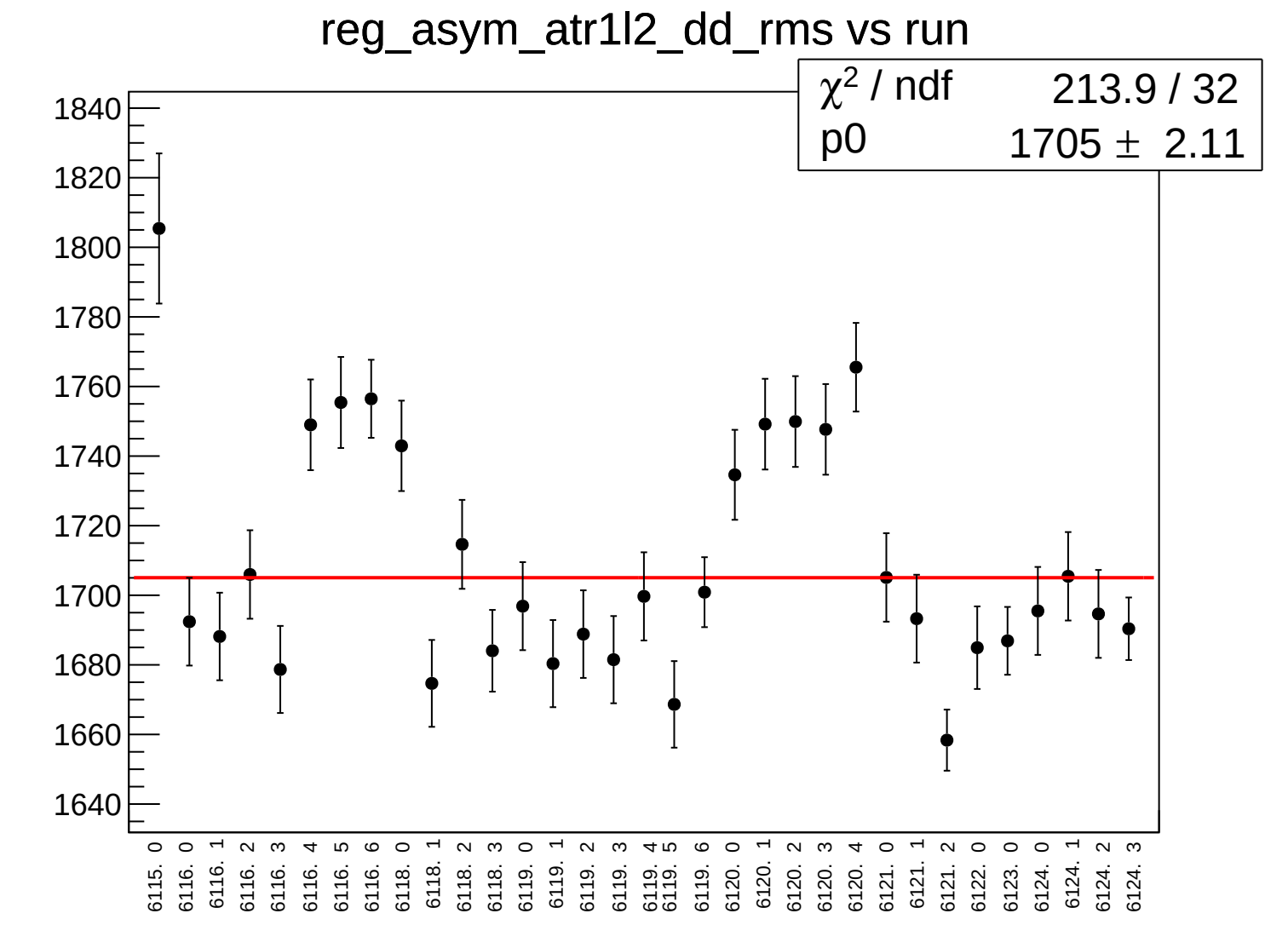

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2791 / 32
p0 2742 ± 3.401
3100
3000
2900
2800
2700
2600
2500
2400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

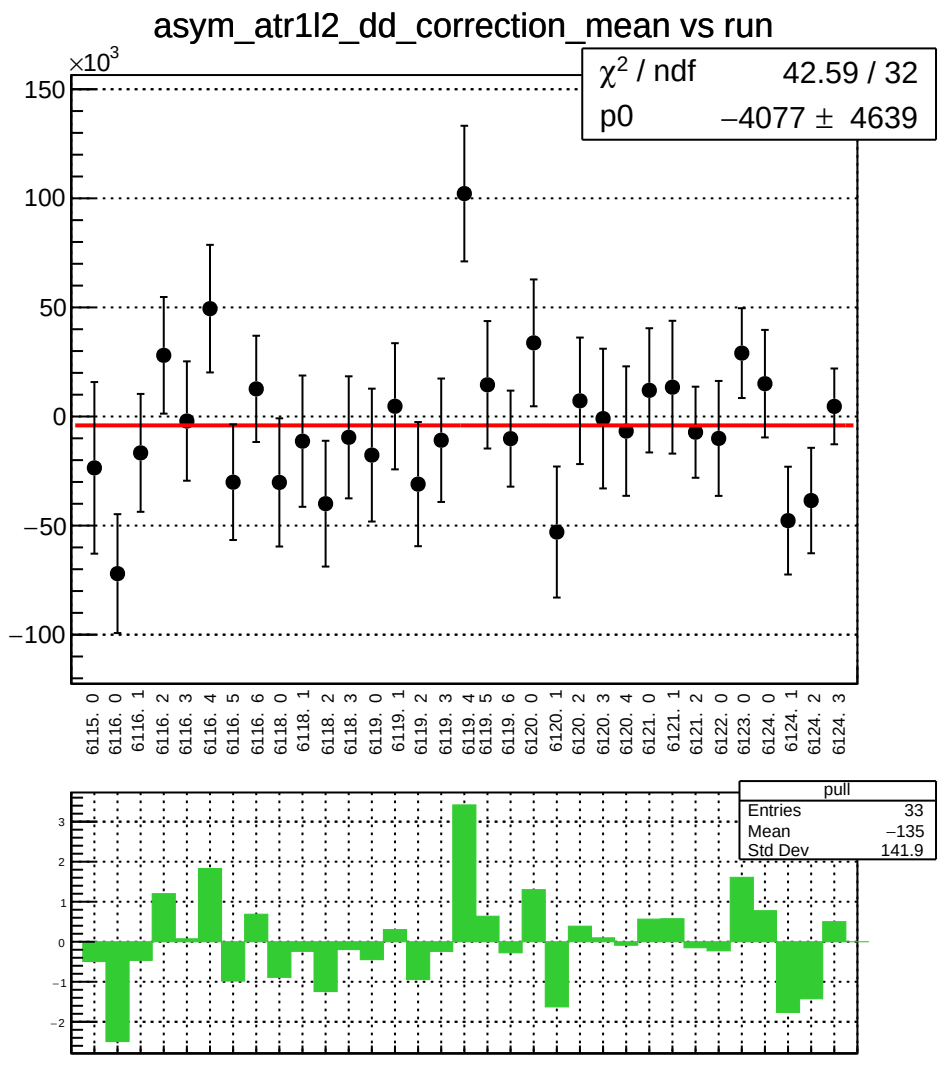

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 42.61 / 32
p0 −3668 ± 5676
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −43.45
Std Dev 54.07
3
2
1
0
−1
−2
−3

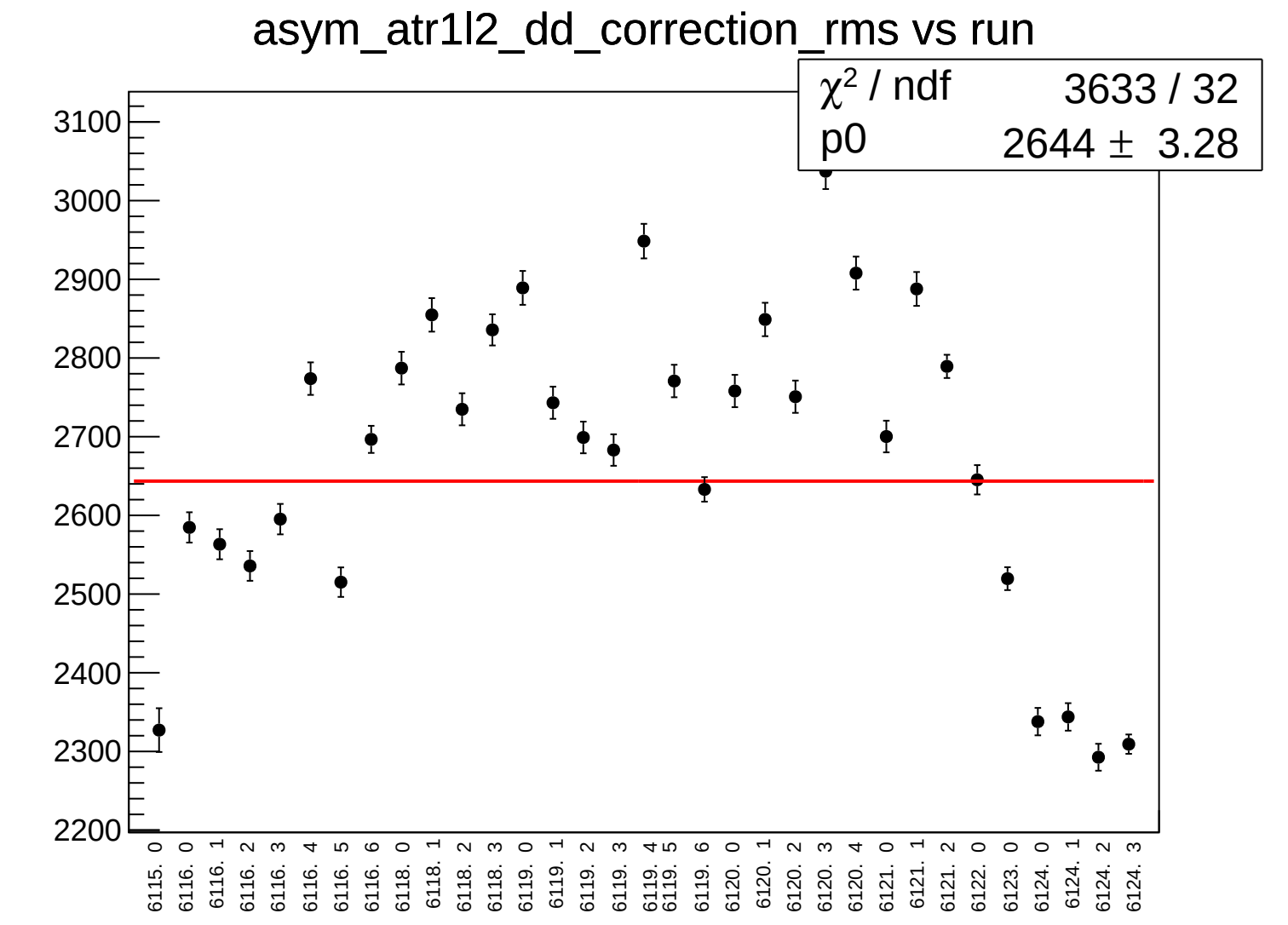

pull1D
Entries 33
Mean −0.0269
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

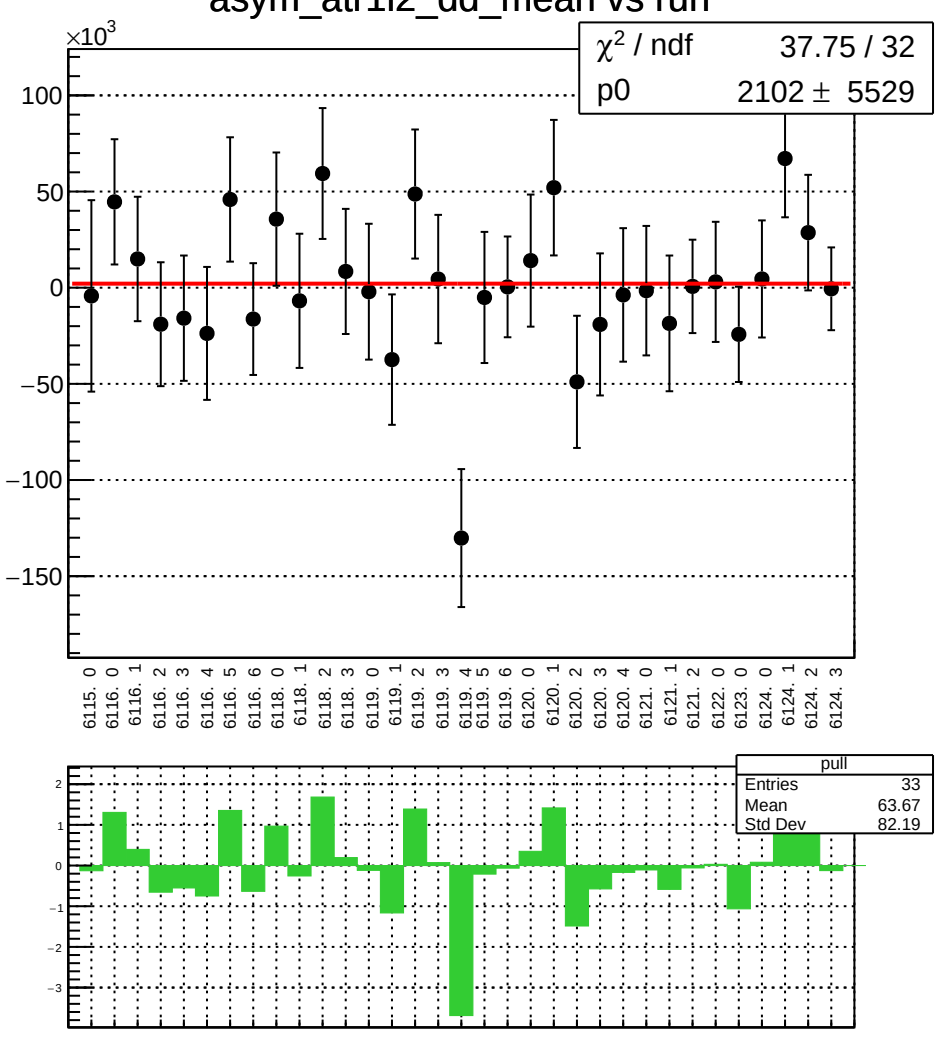

asym_atr1l2_avg_rms vs run
χ² / ndf 1449 / 32
p0 3240 ± 4.014
3600
3500
3400
3300
3200
3100
3000
2900
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

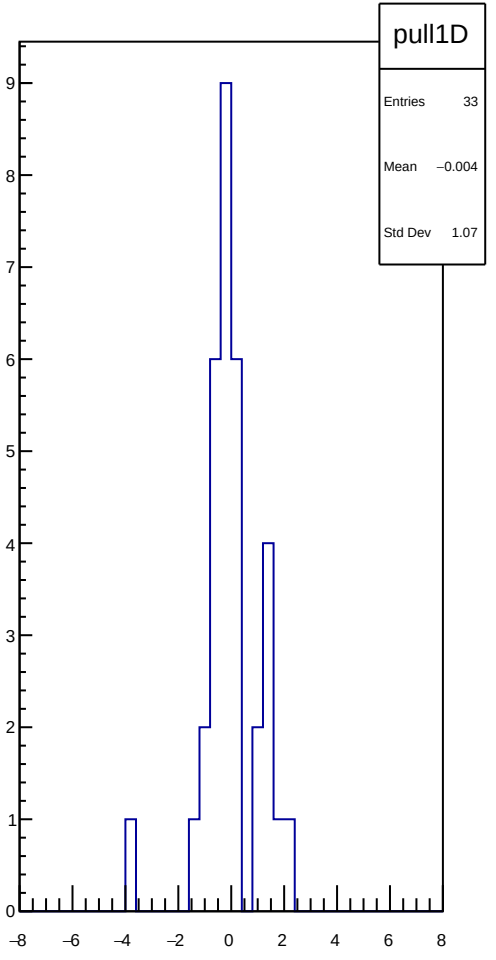

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 35.17 / 32
p0 −2217 ± 2984
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −125.8
Std Dev 144.1
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.008499
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

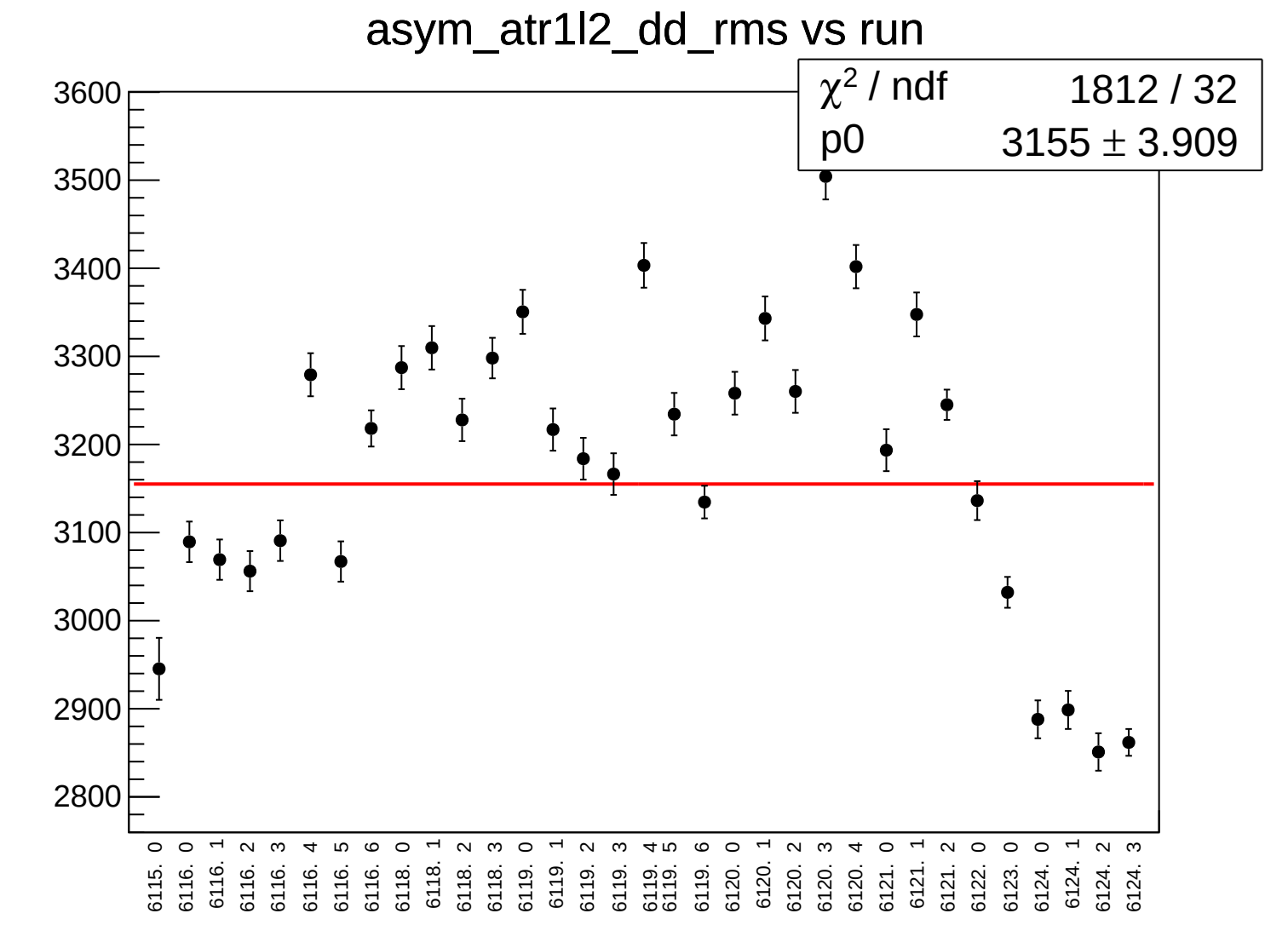

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 213.9 / 32
p0 1705 ± 2.11
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

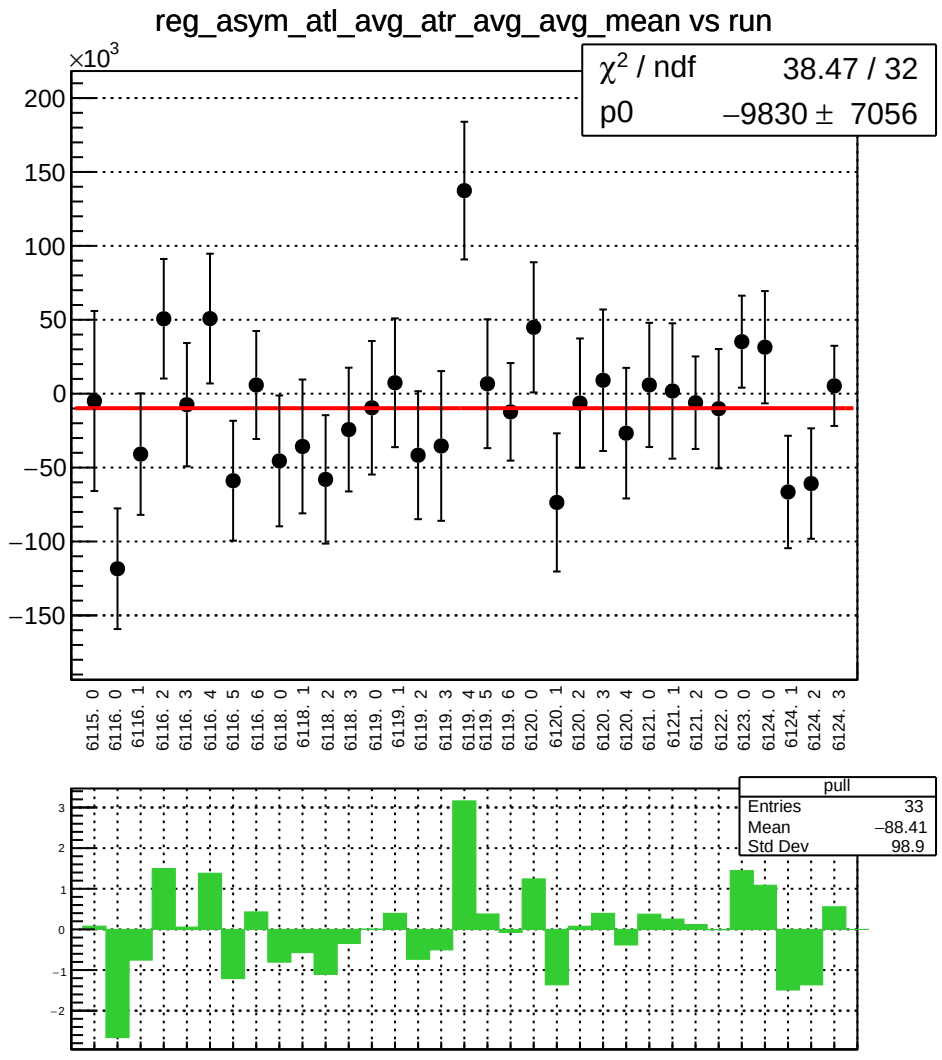

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 42.59 / 32
p0 −4077 ± 4639
150
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −135
Std Dev 141.9
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.007103
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

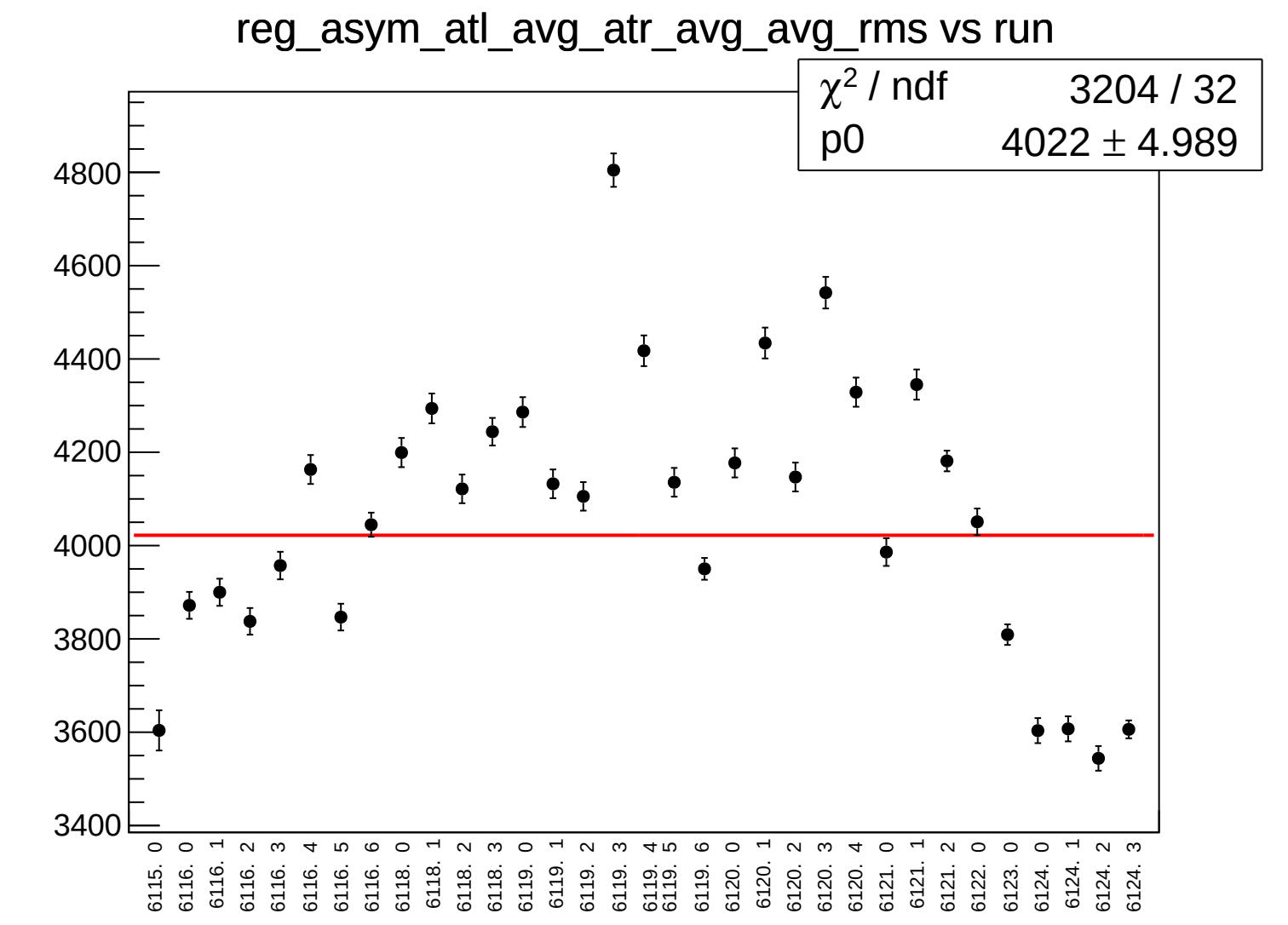

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3633 / 32
p0 2644 ± 3.28
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

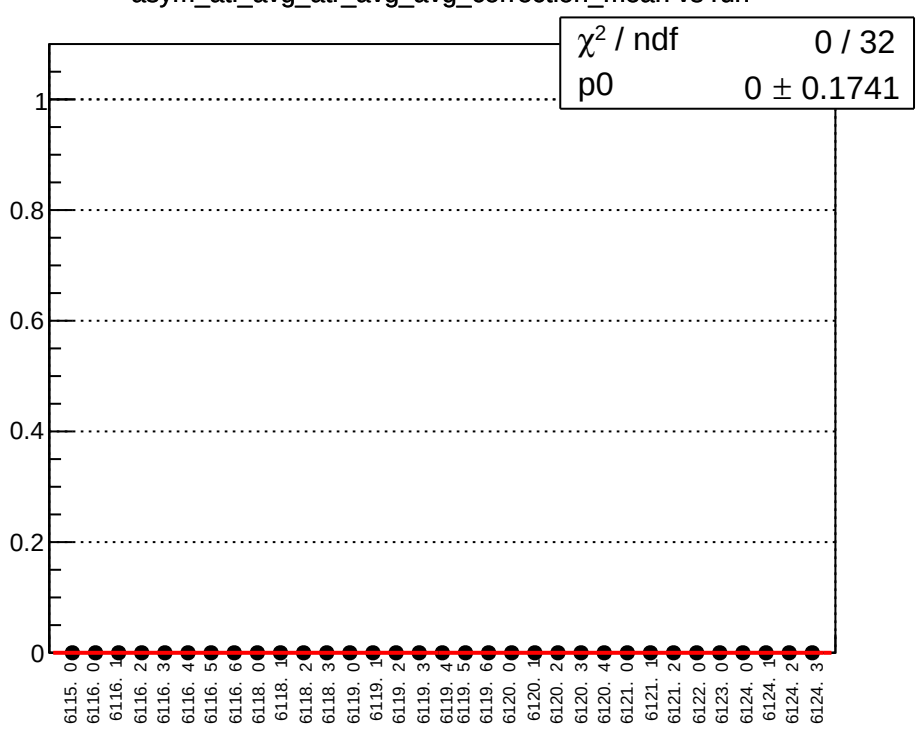

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 37.75 / 32
p0 2102 ± 5529
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 63.67
Std Dev 82.19
2
1
0
−1
−2
−3

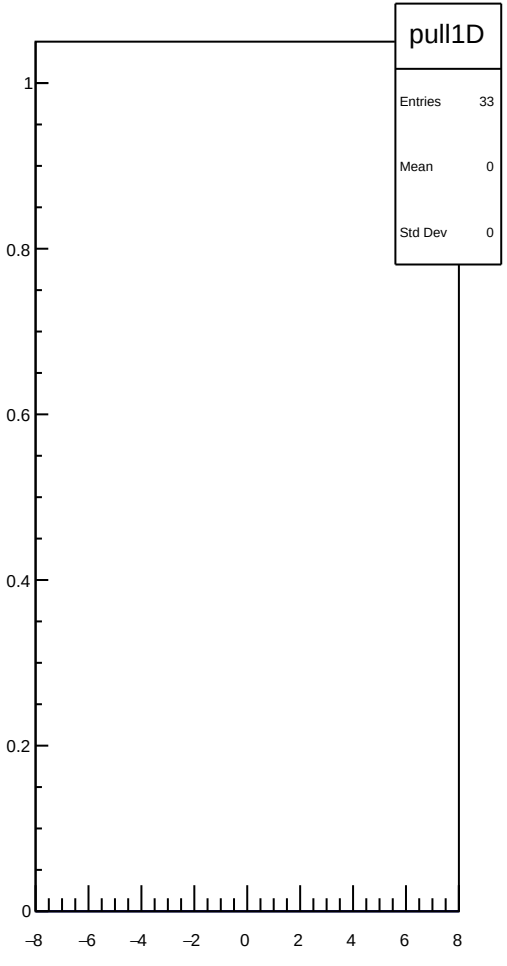

pull1D
Entries 33
Mean −0.004
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

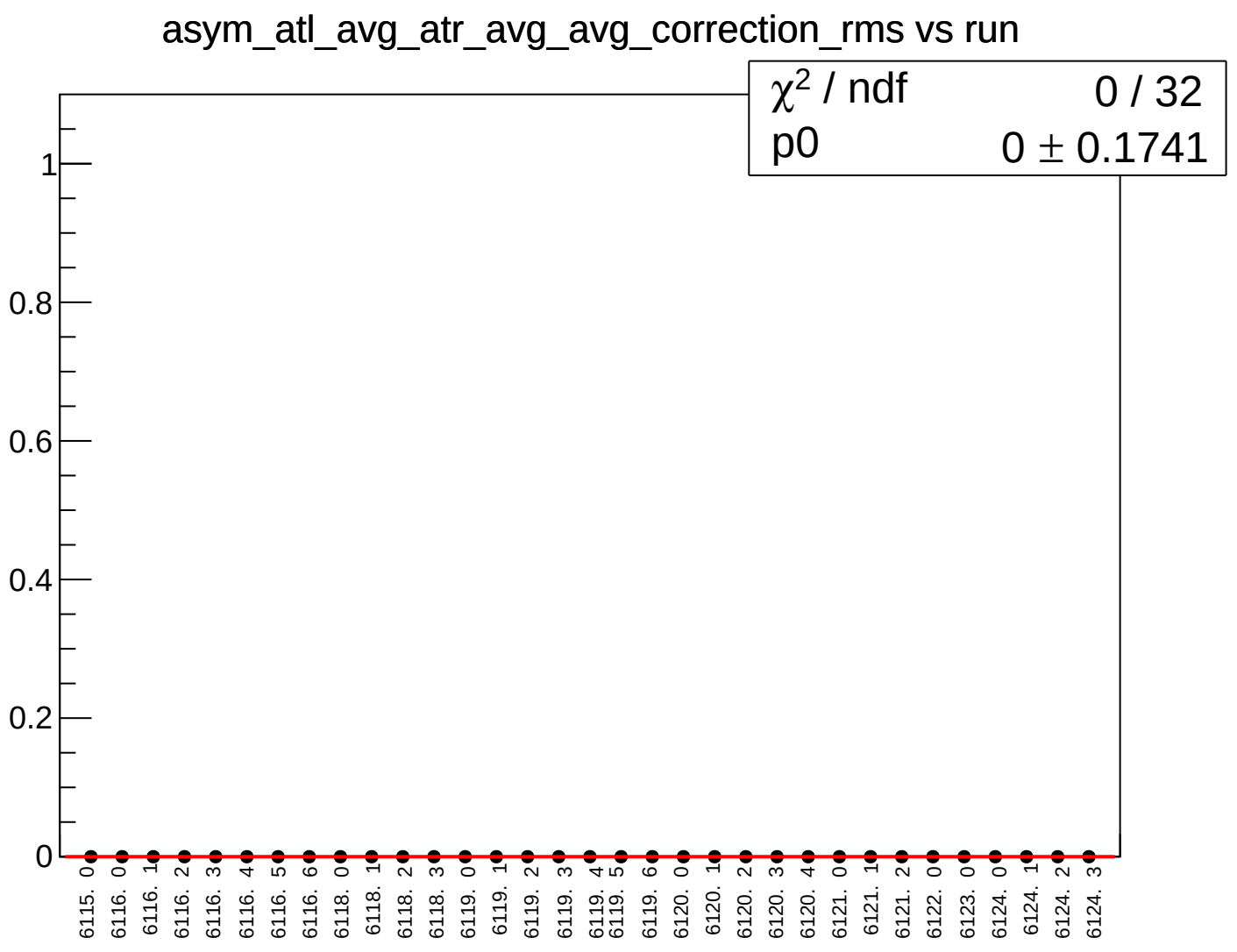

asym_atr1l2_dd_rms vs run
χ² / ndf 1812 / 32
p0 3155 ± 3.909
3600
3500
3400
3300
3200
3100
3000
2900
2800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

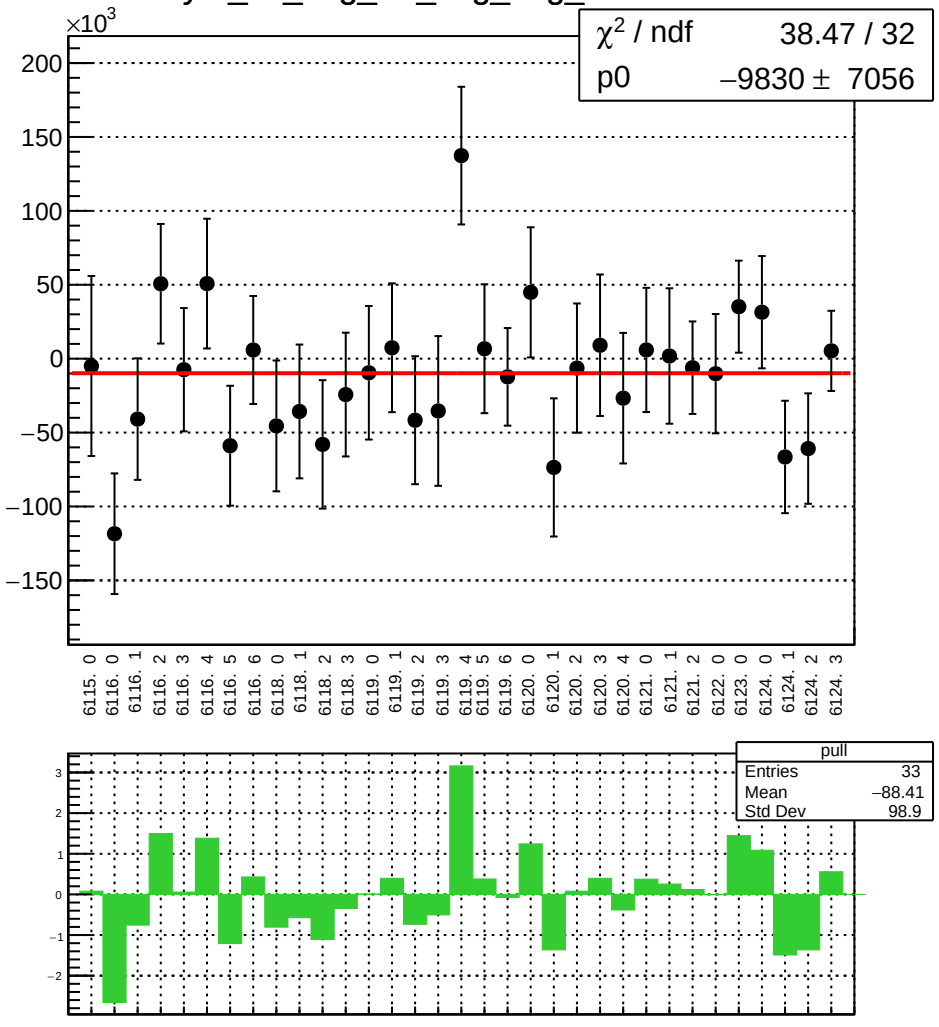

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 38.47 / 32
p0 −9830 ± 7056
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −88.41
Std Dev 98.9
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01321
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

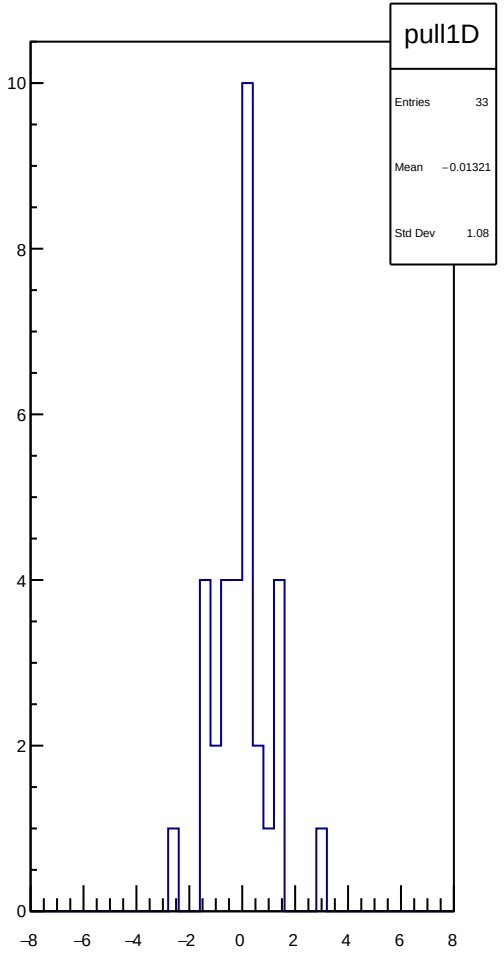

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3204 / 32
p0 4022 ± 4.989
4800
4600
4400
4200
4000
3800
3600
3400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

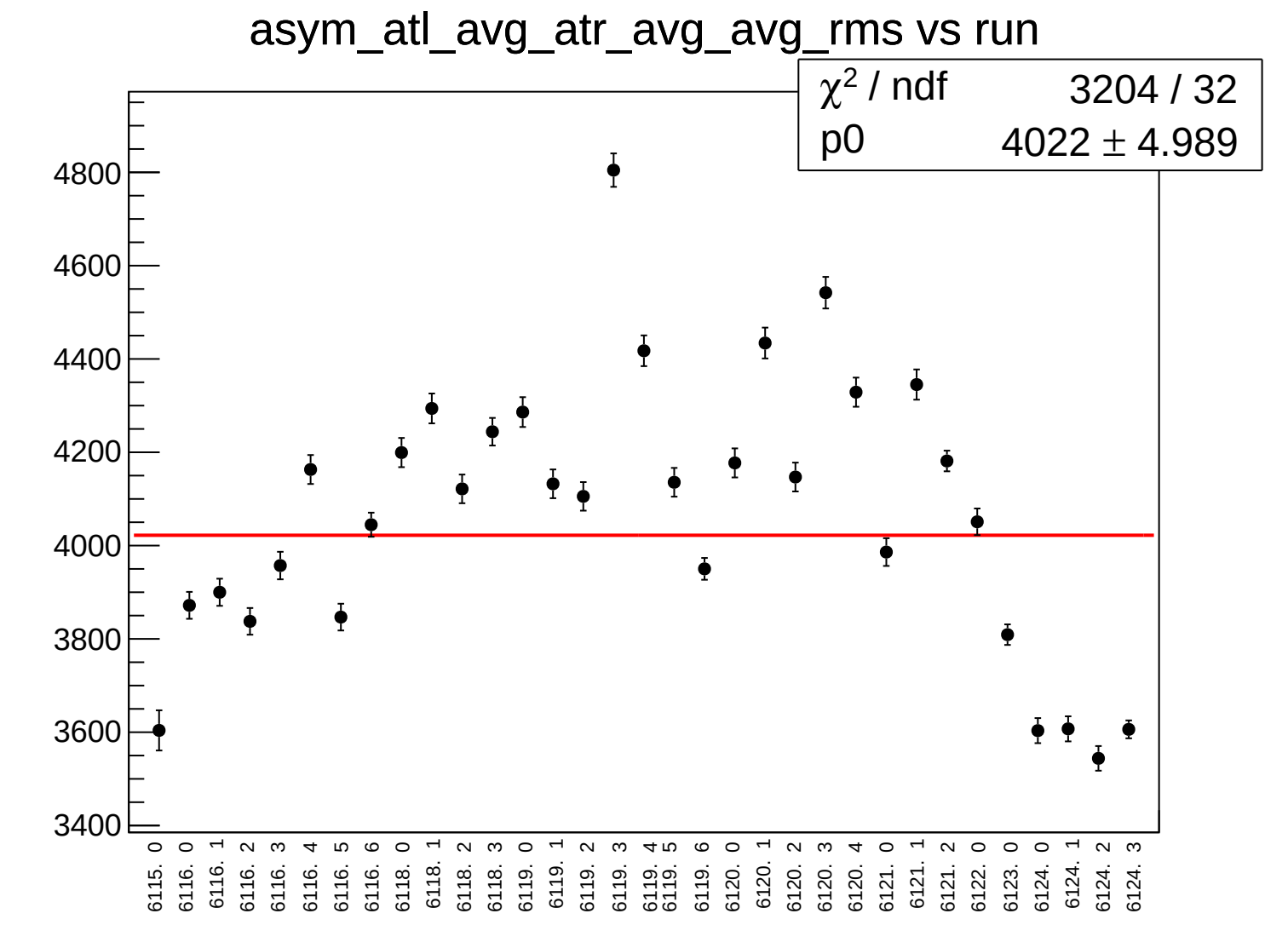

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

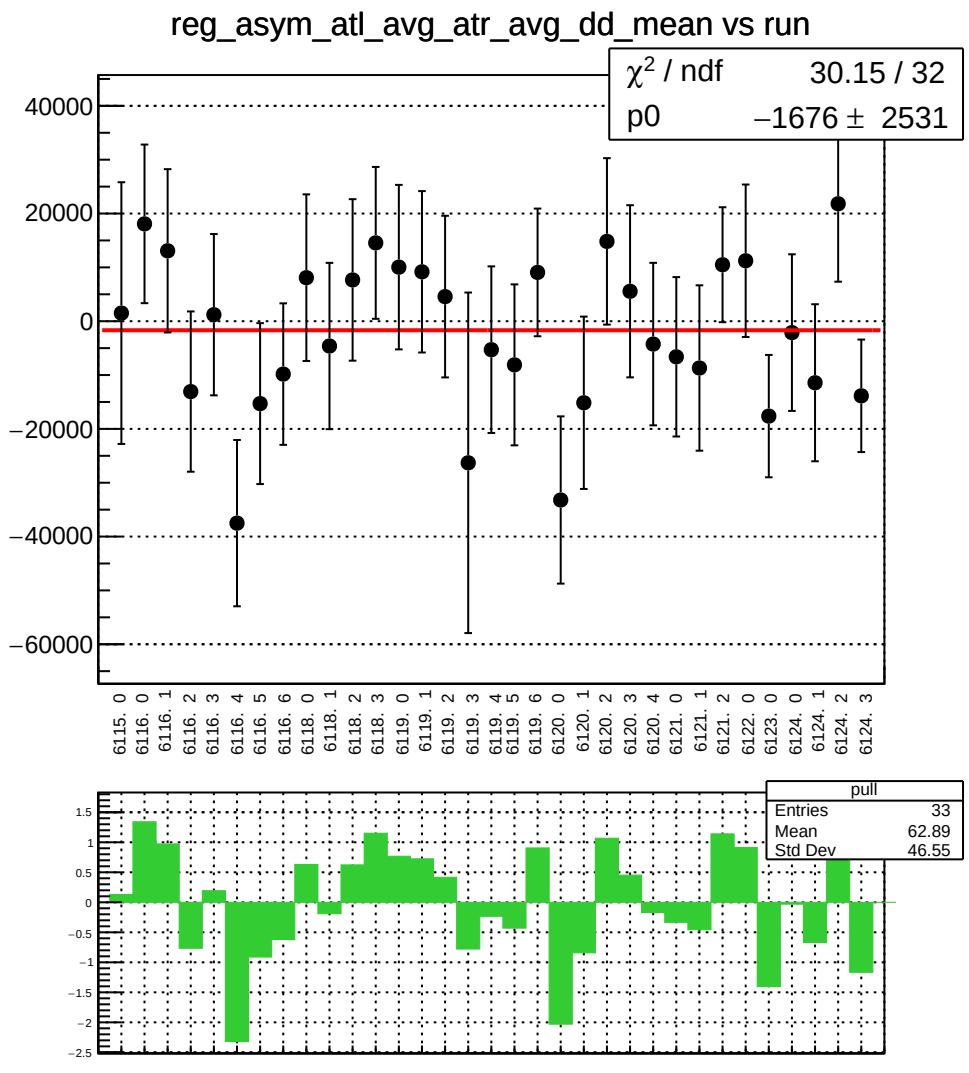

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

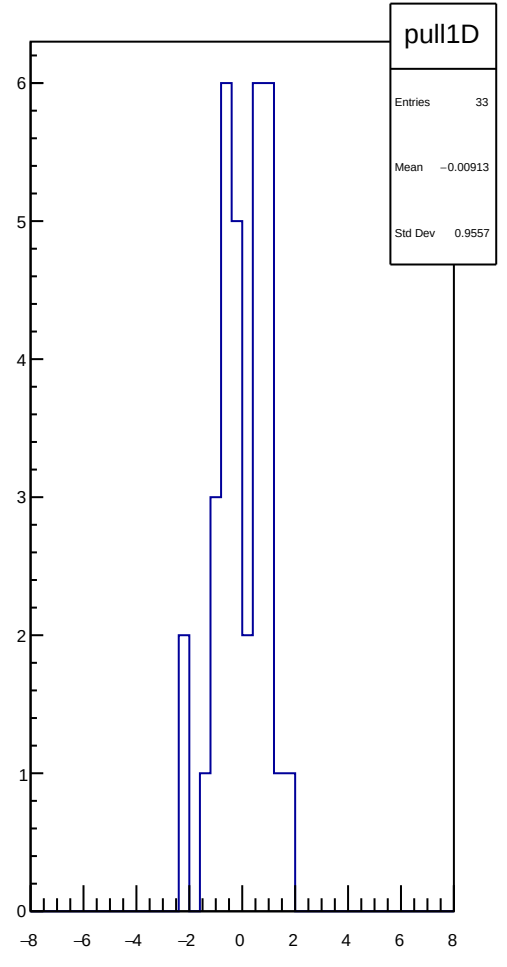

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

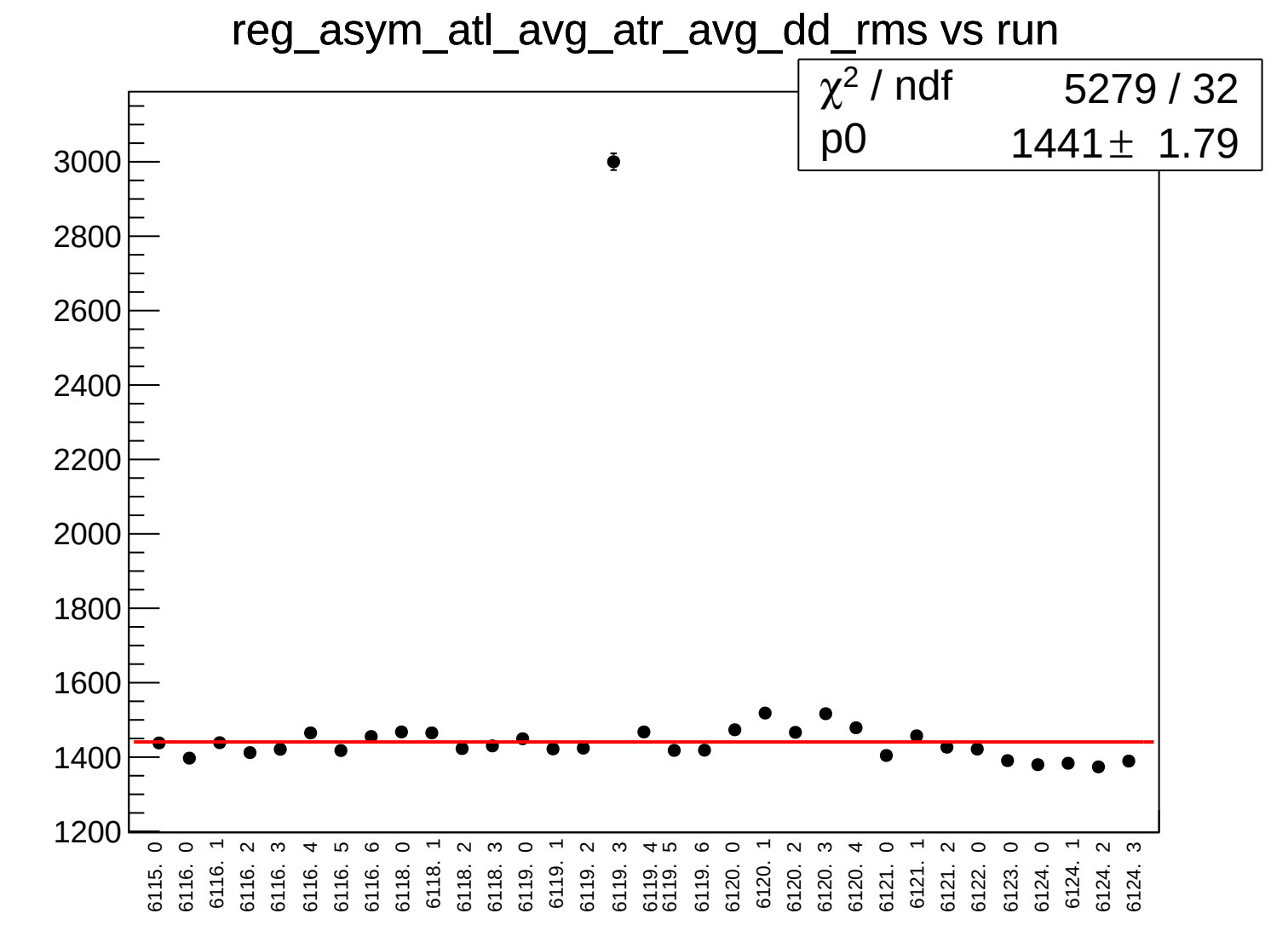

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 38.47 / 32
p0 −9830 ± 7056
×10³
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −88.41
Std Dev 98.9
3
2
1
0
−1
−2

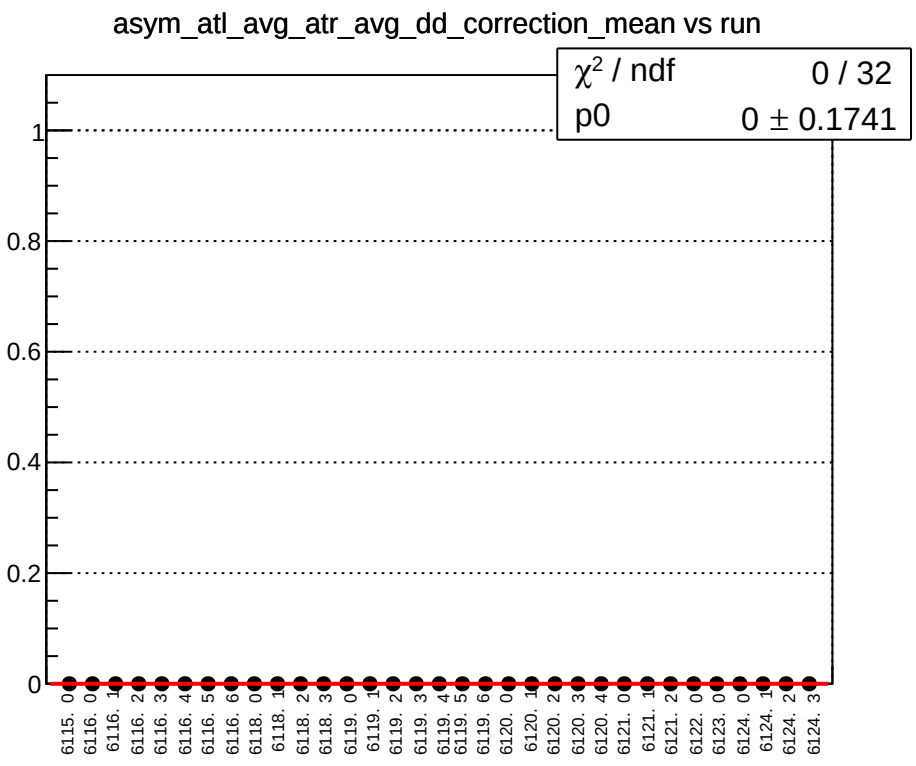

pull1D
Entries 33
Mean −0.01321
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

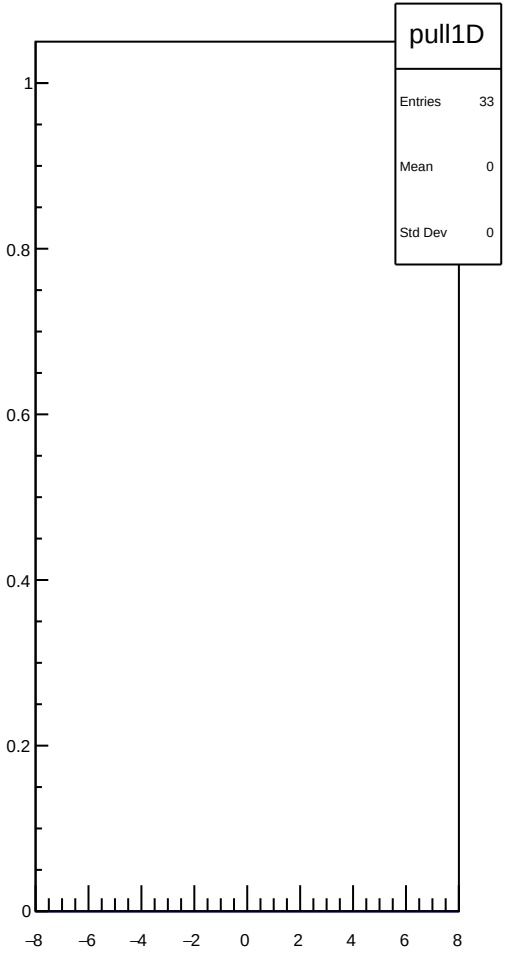

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3204 / 32
p0 4022 ± 4.989
4800
4600
4400
4200
4000
3800
3600
3400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

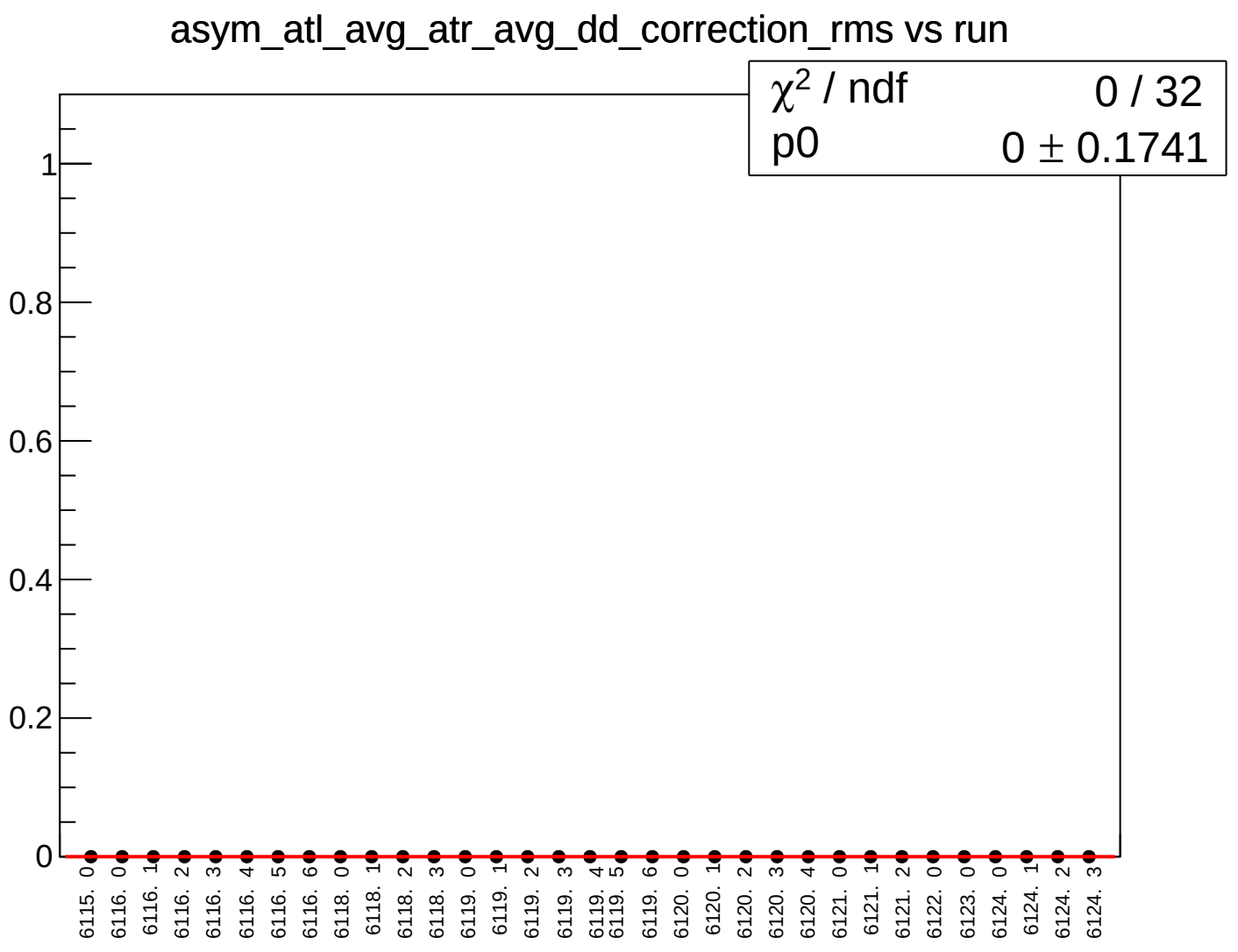

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.15 / 32
p0 −1676 ± 2531
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 62.89
Std Dev 46.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

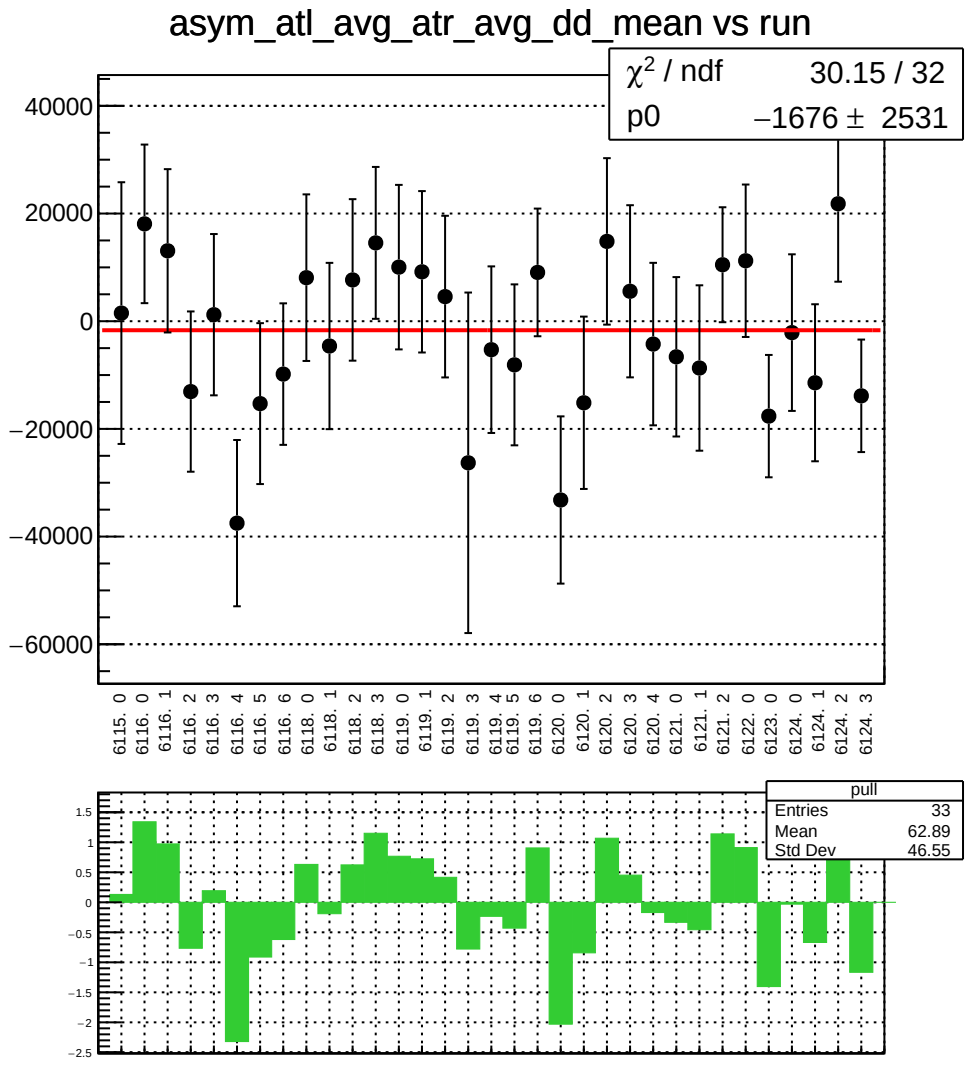

pull1D
Entries 33
Mean −0.00913
Std Dev 0.9557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

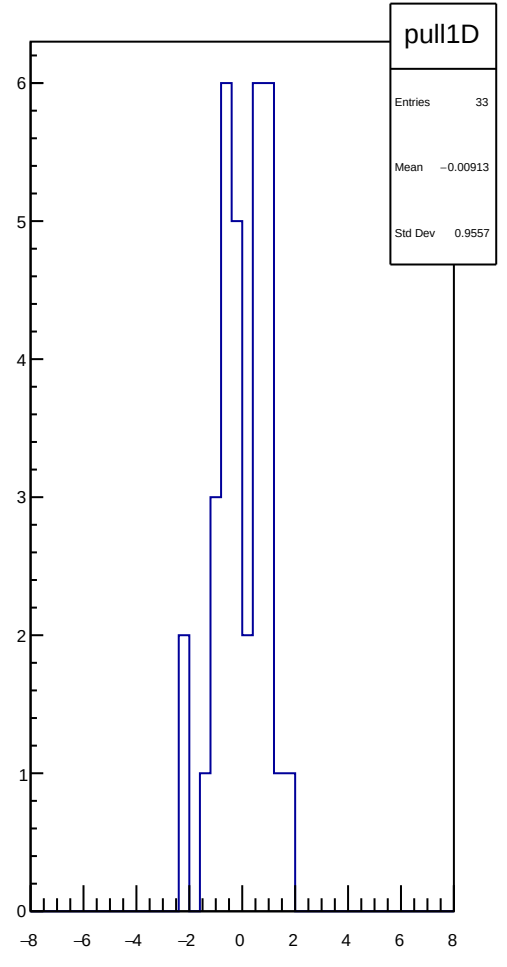

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5279 / 32
p0 1441 ± 1.79
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

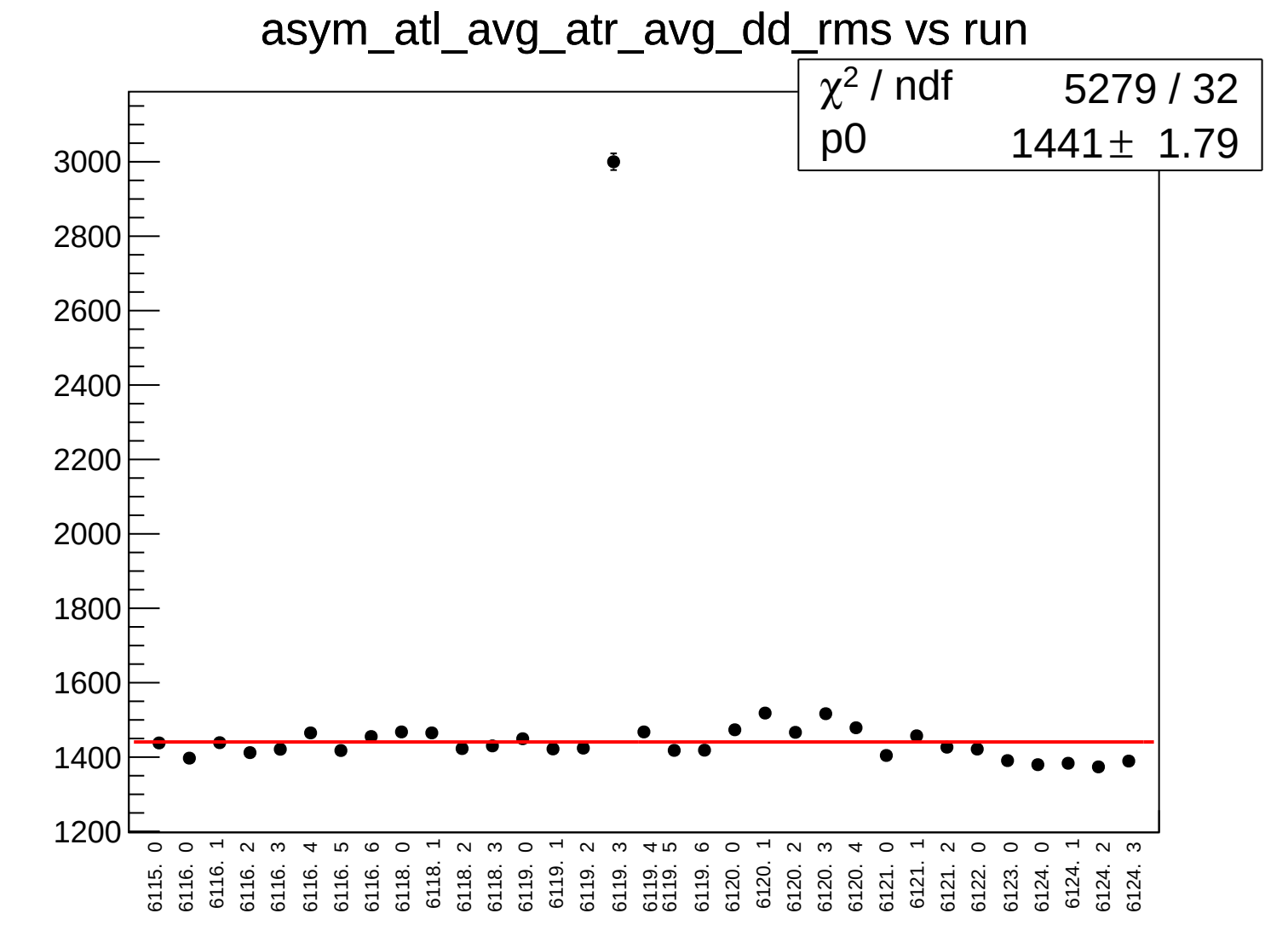

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

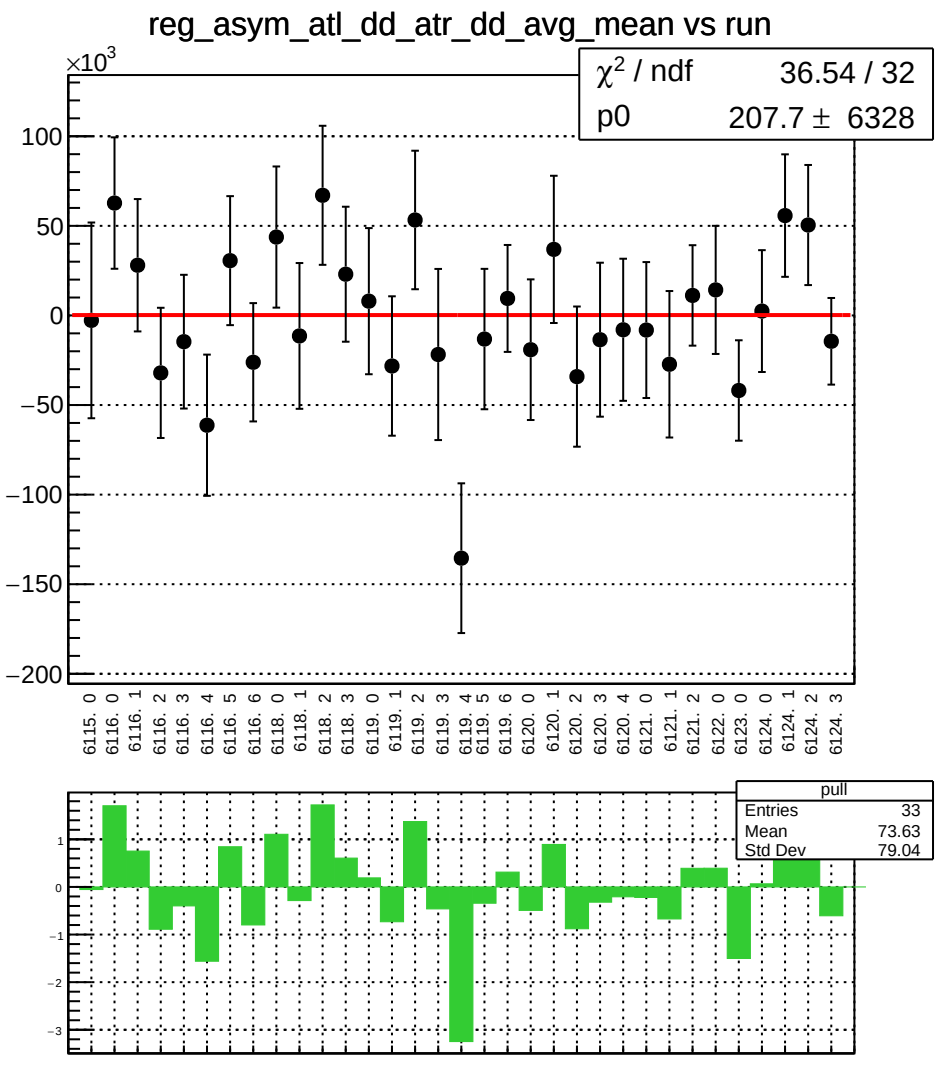

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

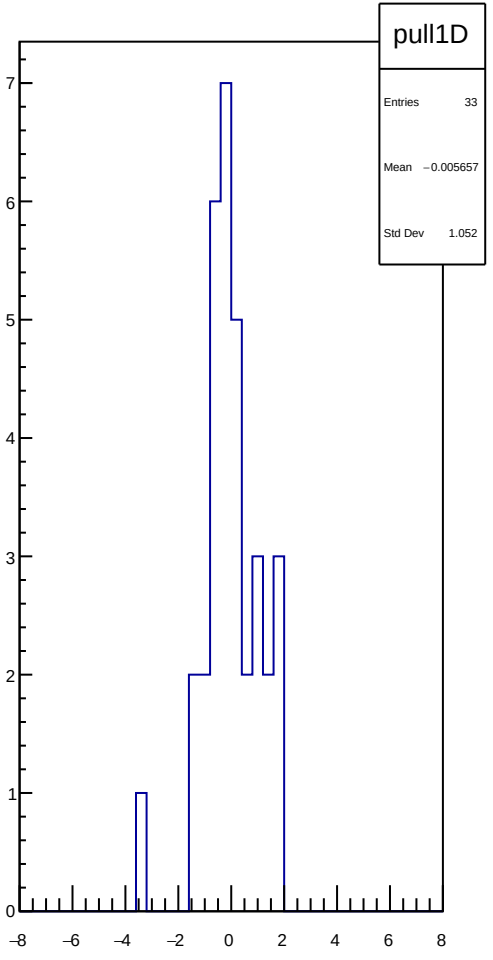

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

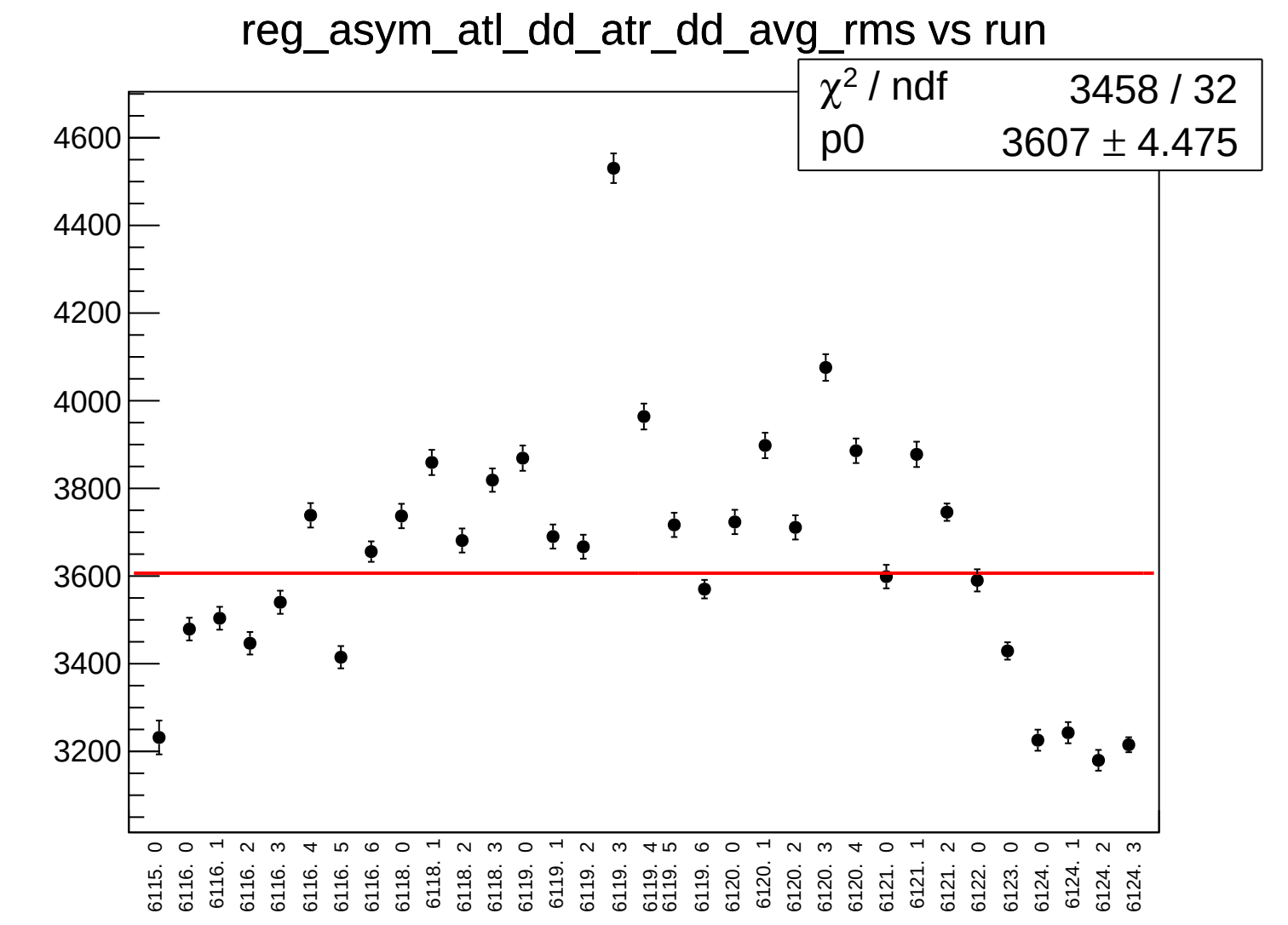

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.15 / 32
p0 −1676 ± 2531
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 62.89
Std Dev 46.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

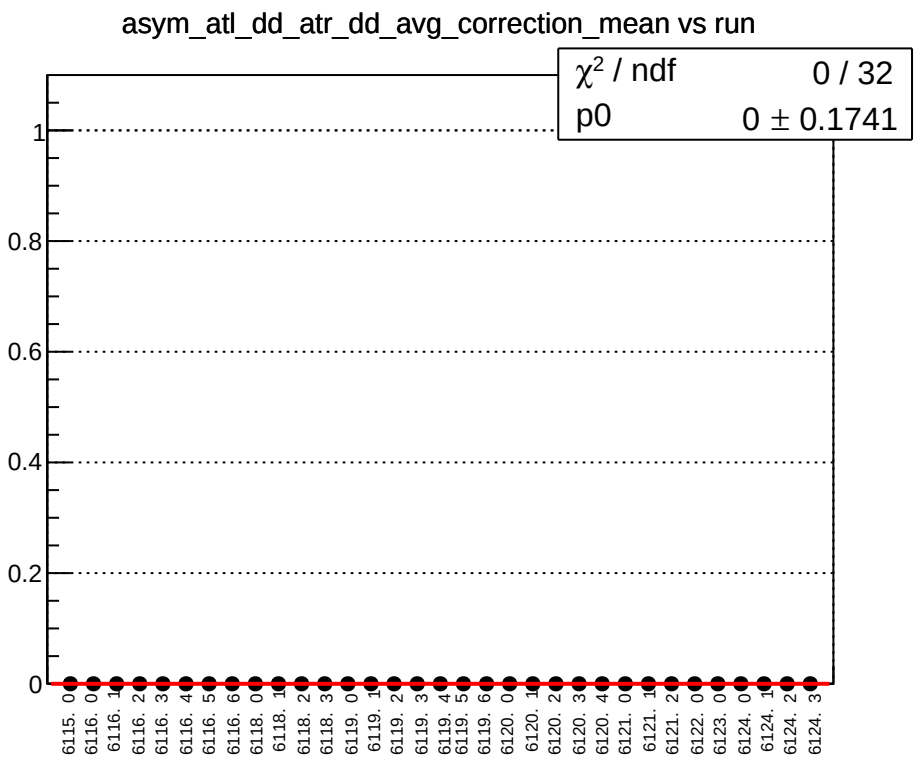

pull1D
Entries 33
Mean −0.00913
Std Dev 0.9557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

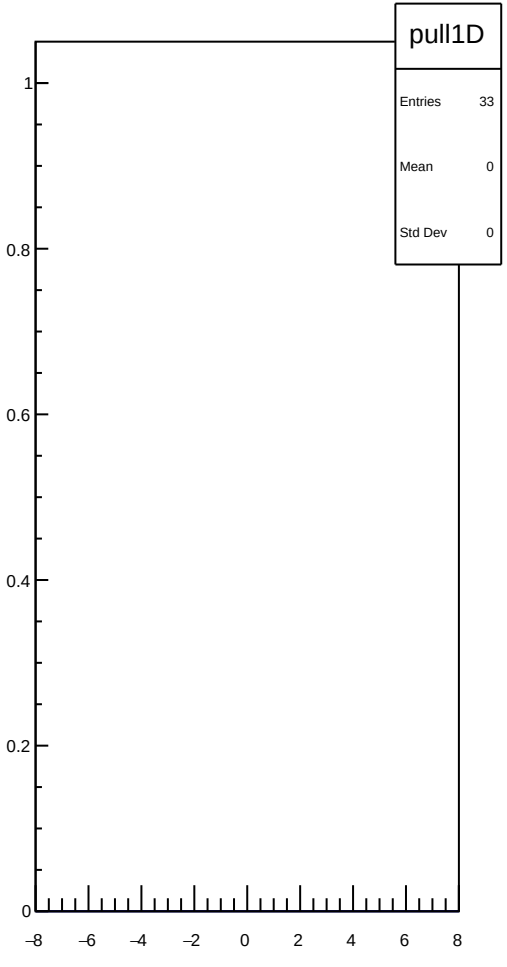

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5279 / 32
p0 1441 ± 1.79
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

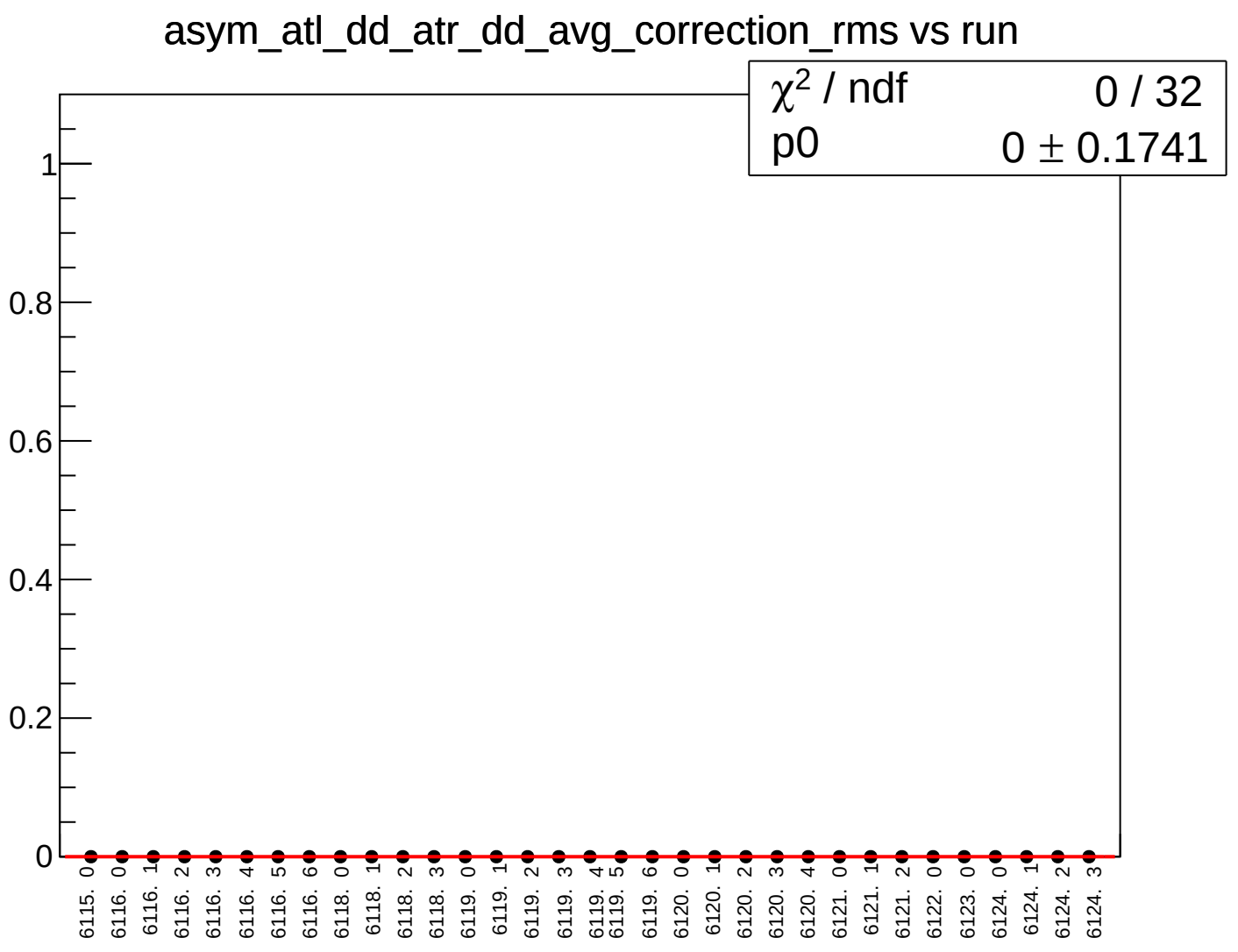

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 36.54 / 32
p0 207.7 ± 6328
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 73.63
Std Dev 79.04
1
0
−1
−2
−3

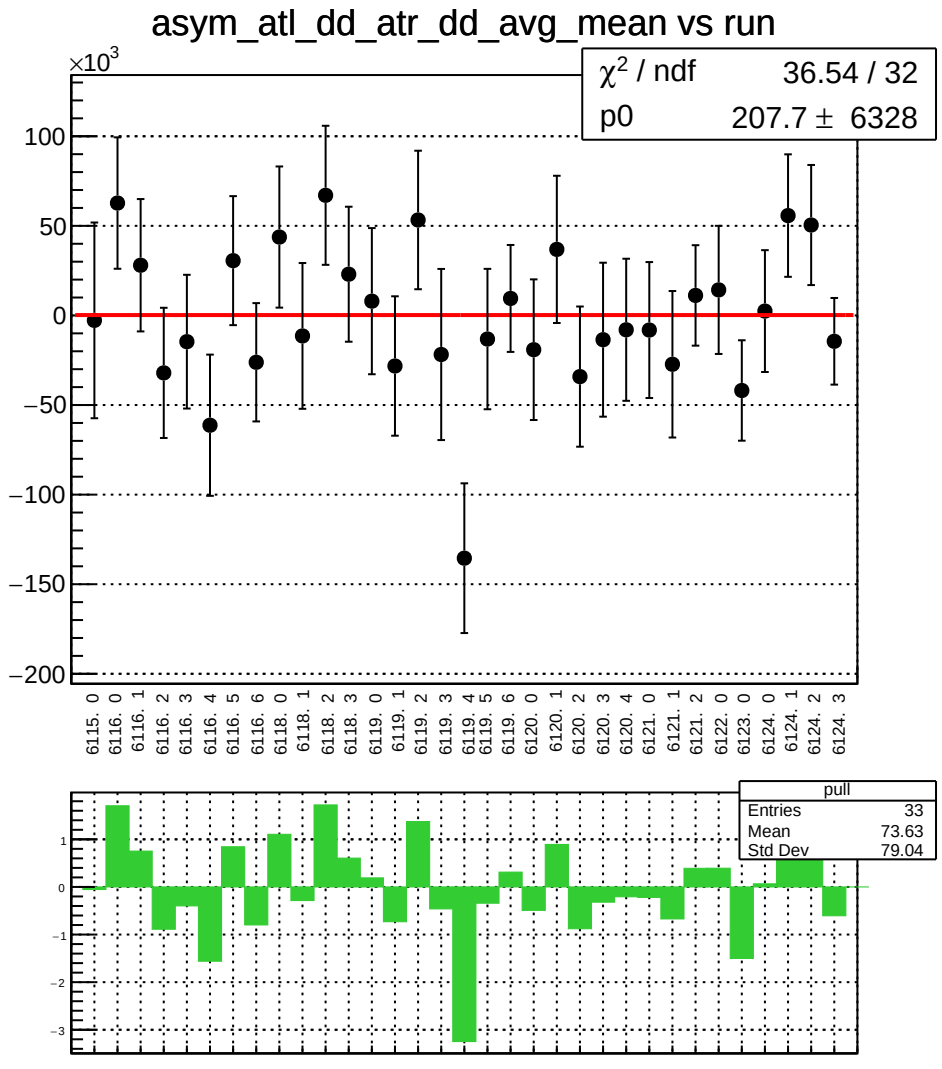

pull1D
Entries 33
Mean −0.005657
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

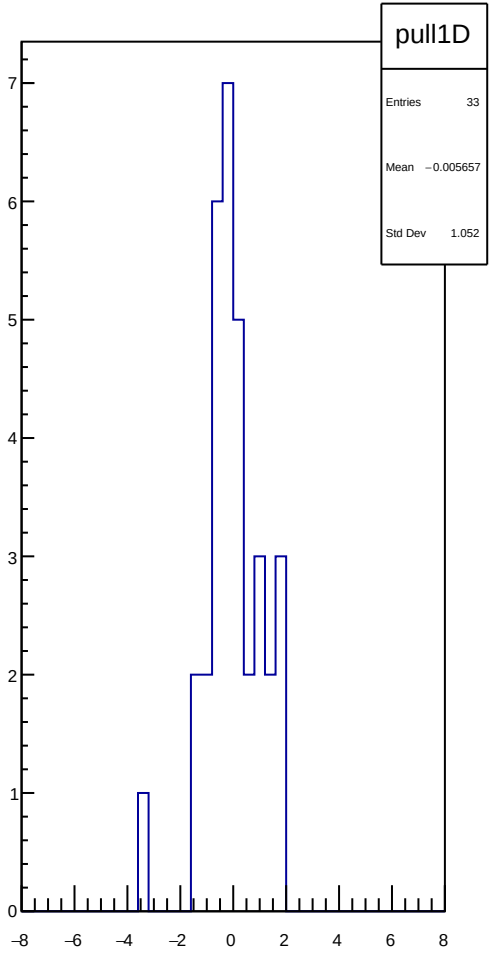

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3458 / 32
p0 3607 ± 4.475
4600
4400
4200
4000
3800
3600
3400
3200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

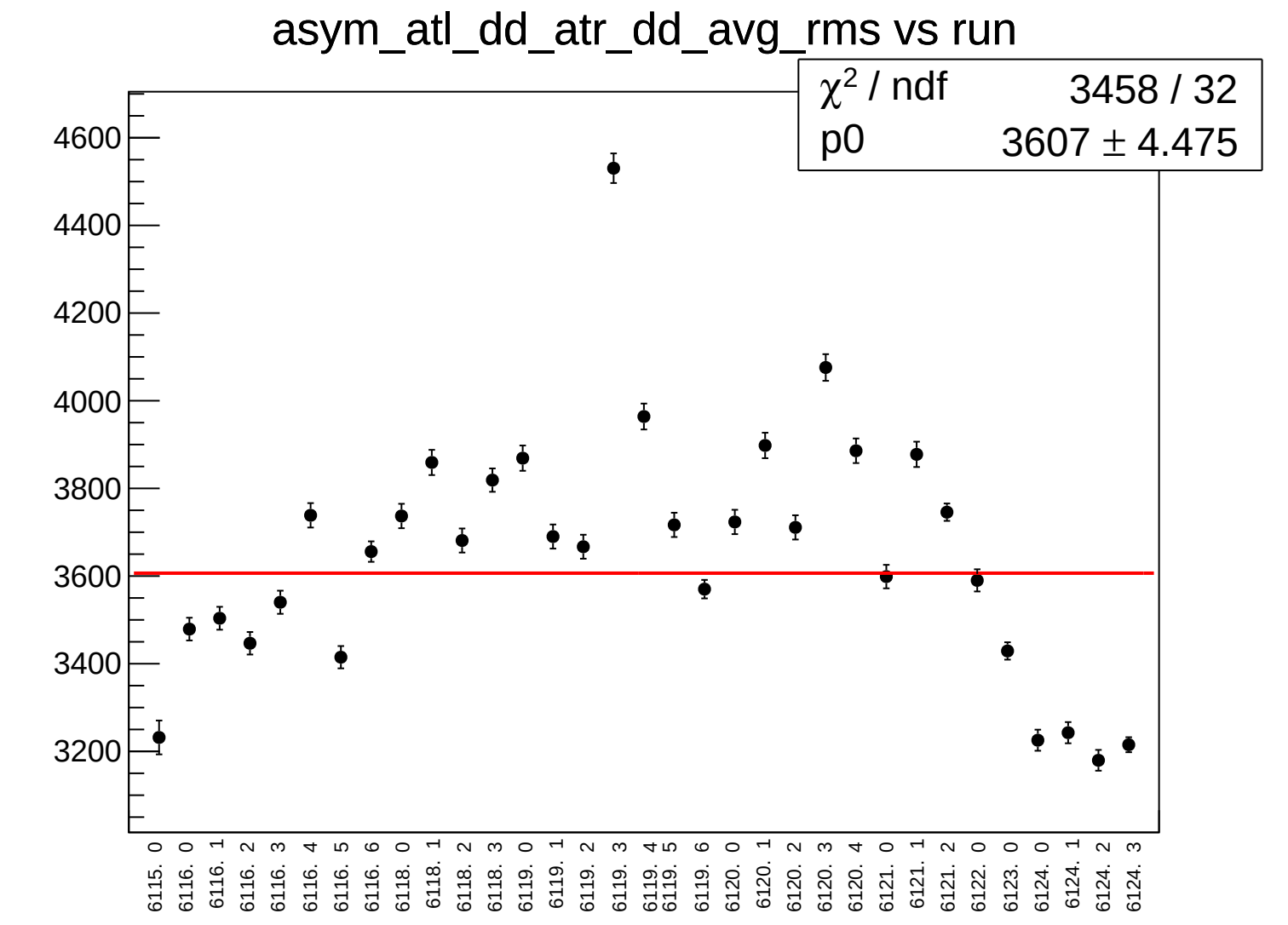

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

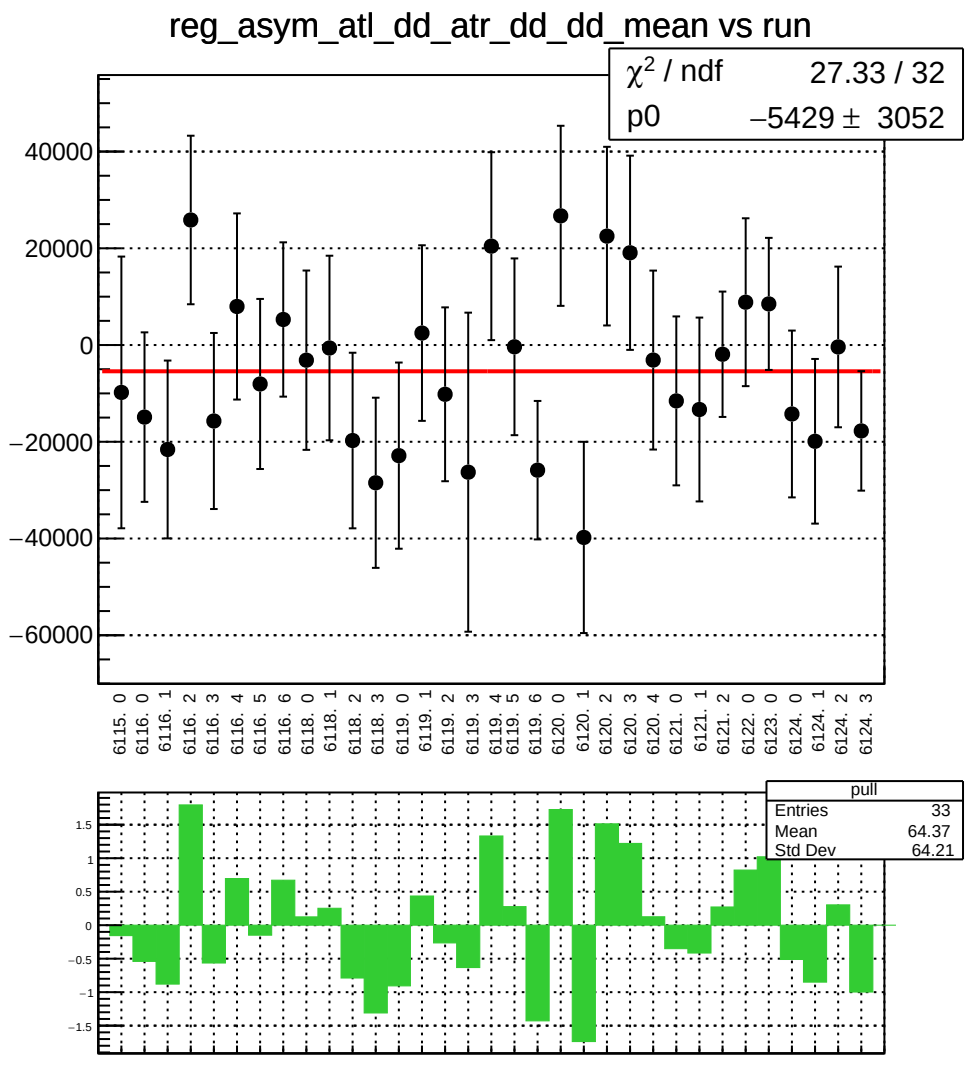

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

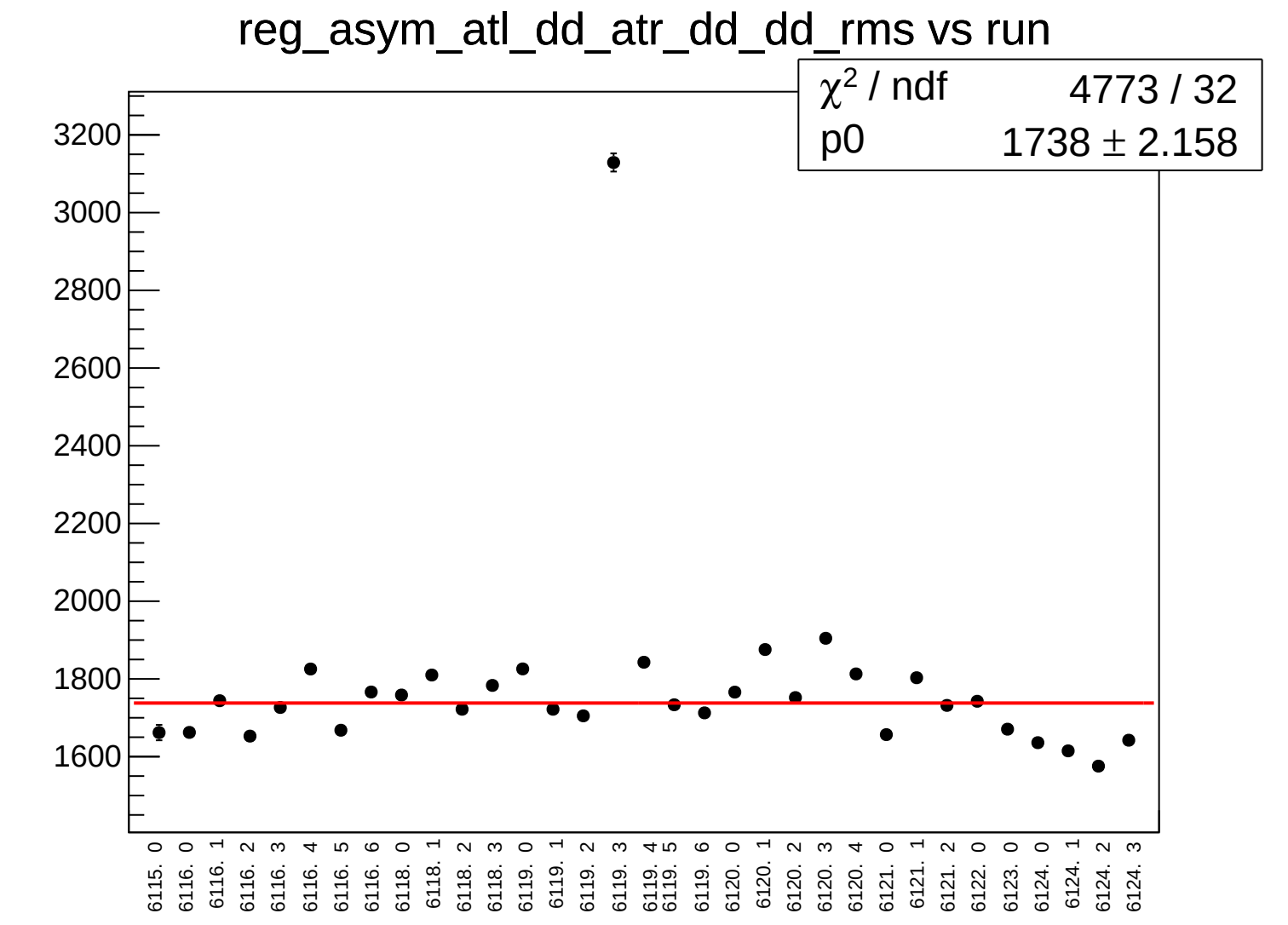

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

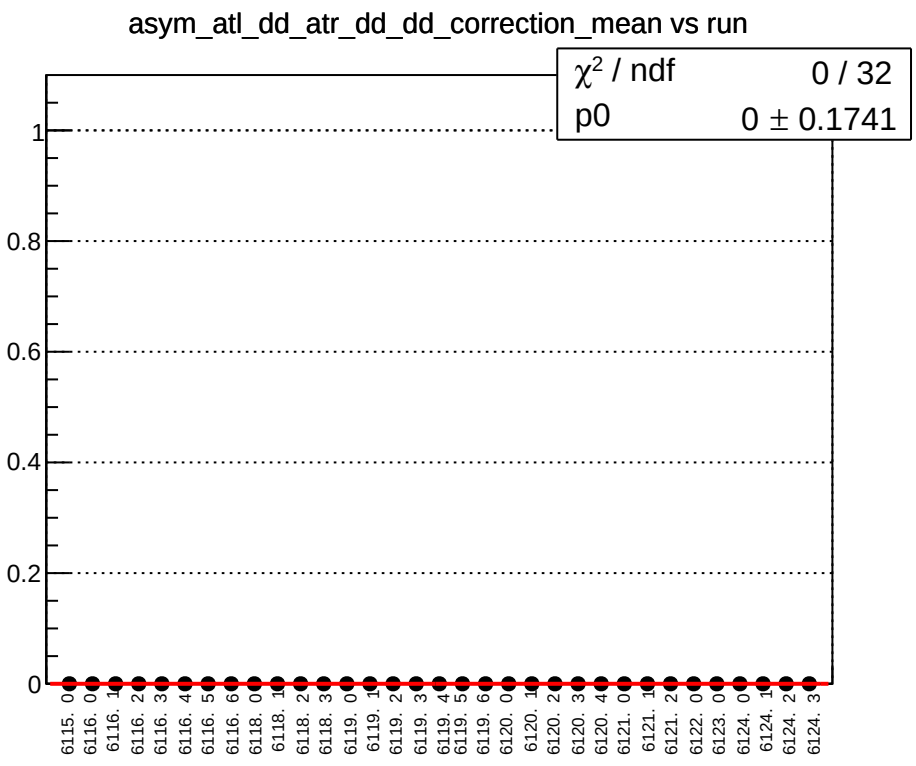

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 36.54 / 32
p0 207.7 ± 6328
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 73.63
Std Dev 79.04
1
0
−1
−2
−3


pull1D
Entries 33
Mean −0.005657
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3458 / 32
p0 3607 ± 4.475
4600
4400
4200
4000
3800
3600
3400
3200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 27.33 / 32
p0 −5429 ± 3052
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 64.37
Std Dev 64.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0032
Std Dev 0.9101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4773 / 32
p0 1738 ± 2.158
3200
3000
2800
2600
2400
2200
2000
1800
1600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
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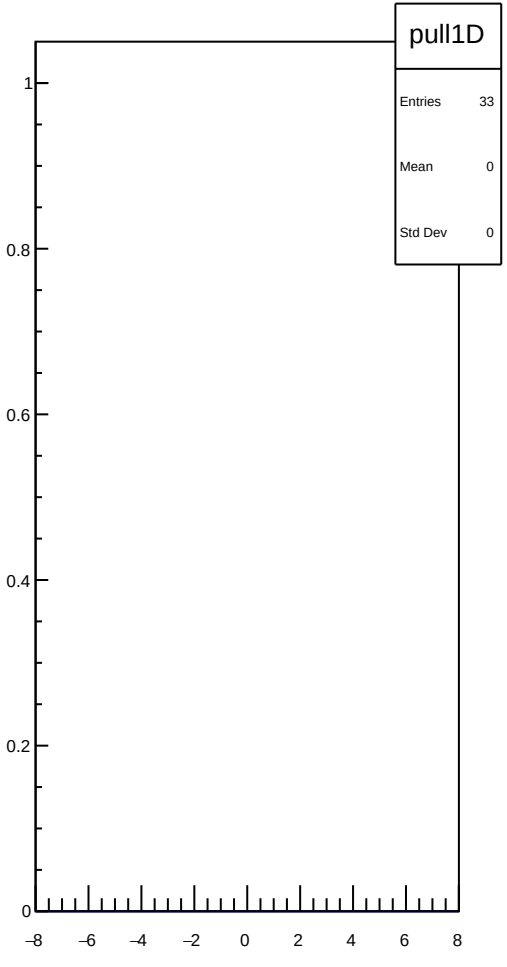
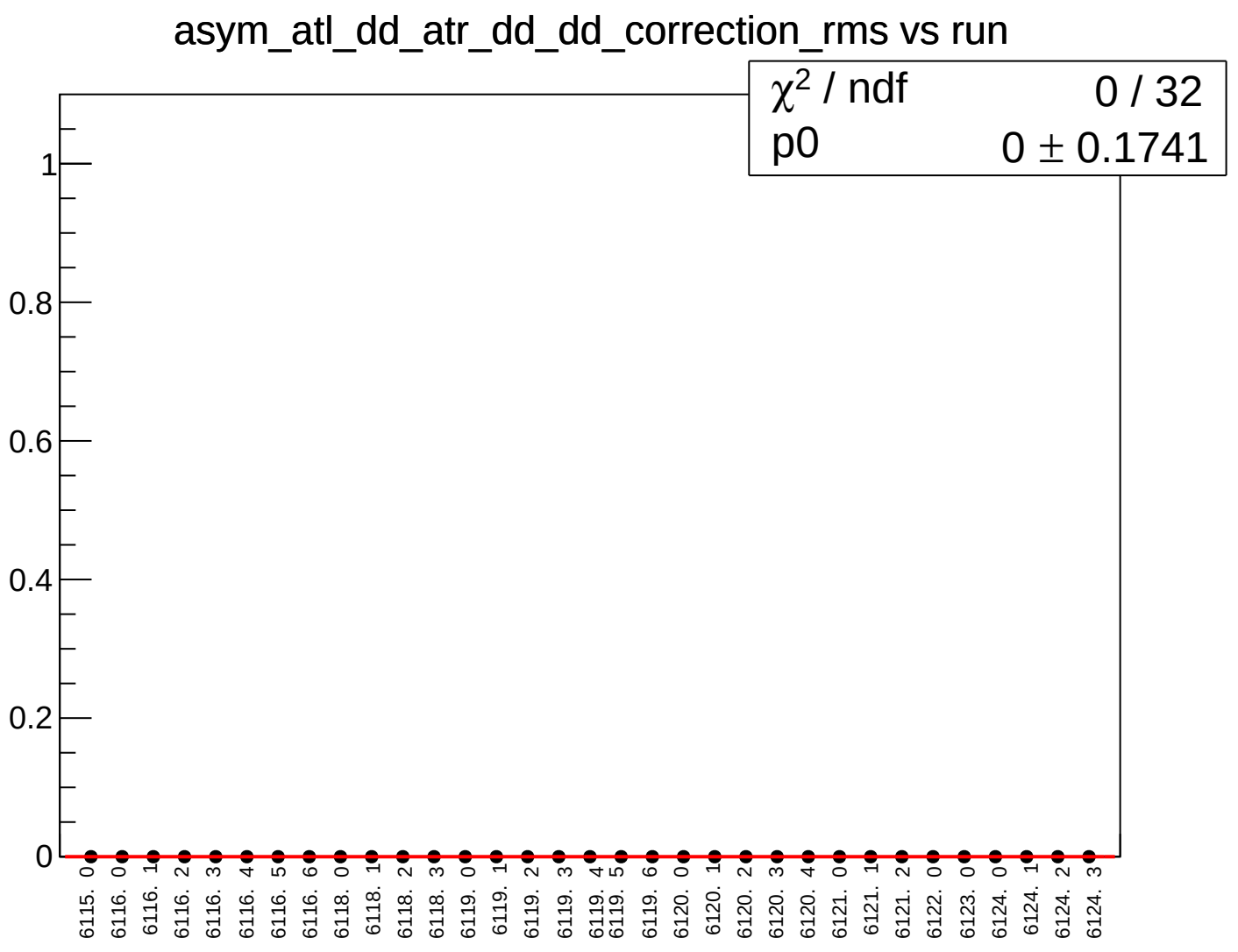
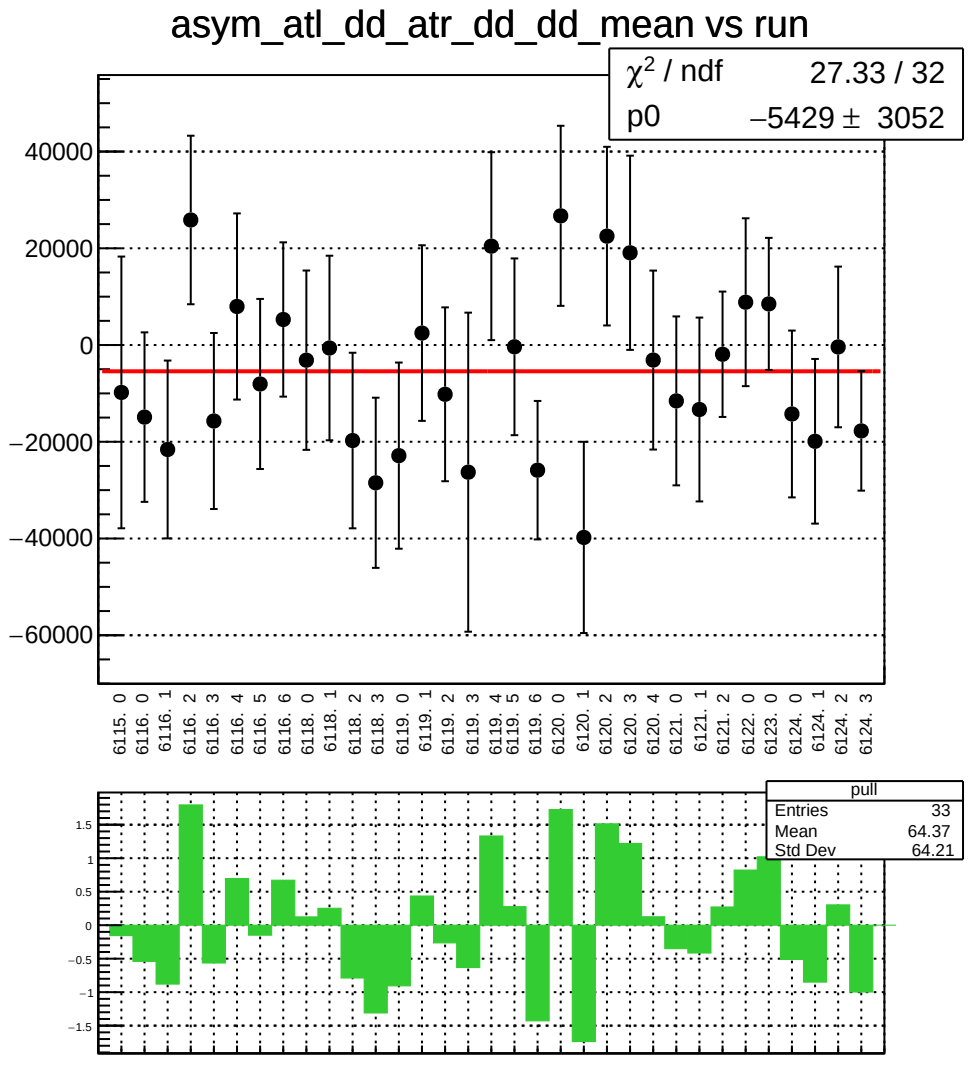
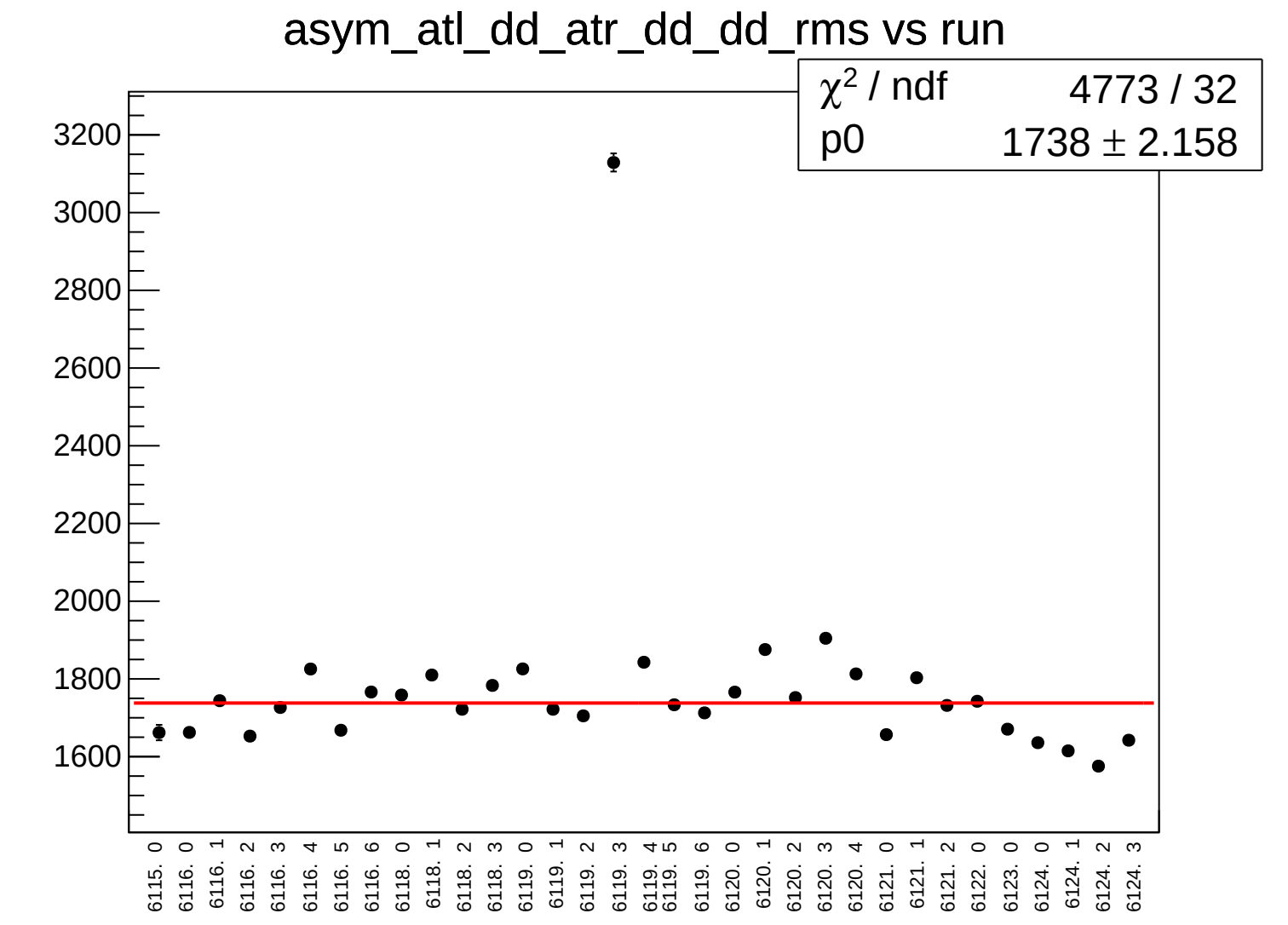
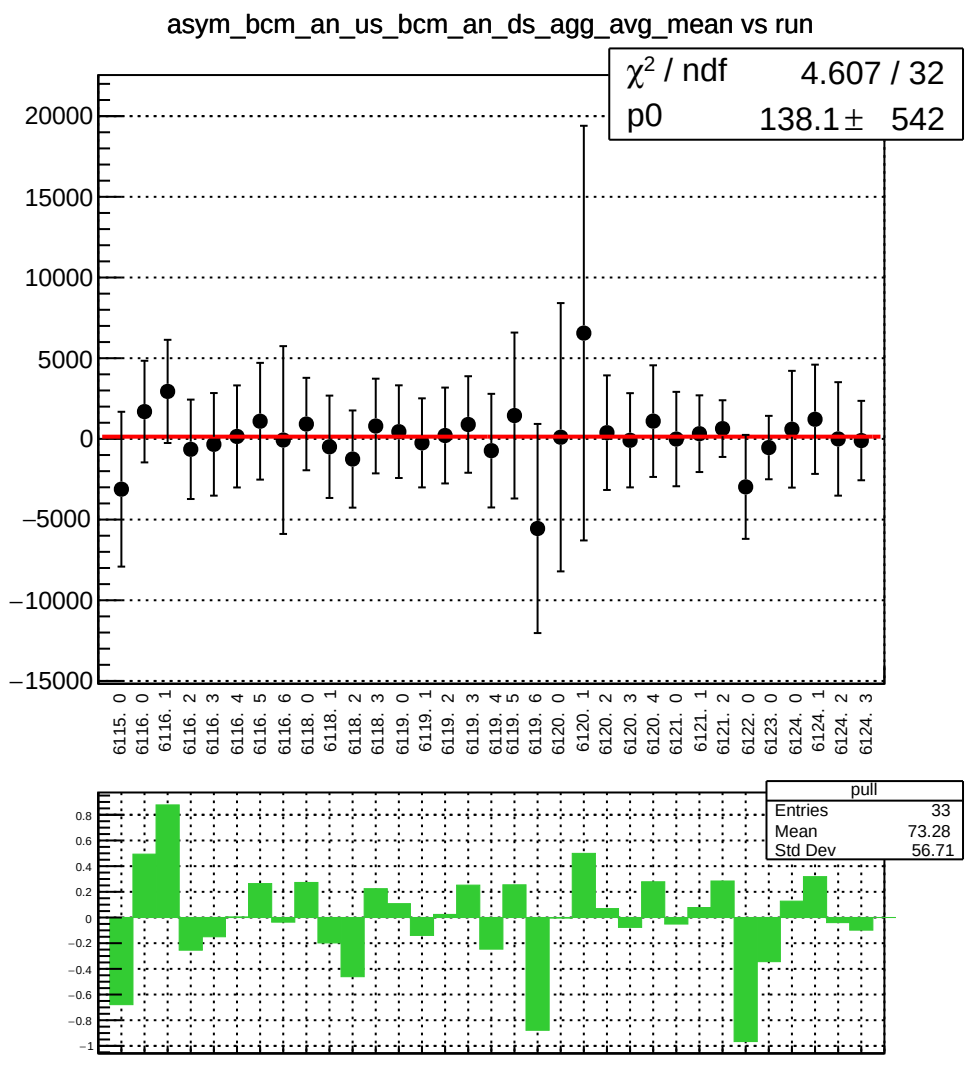
6124. 2
6124. 3

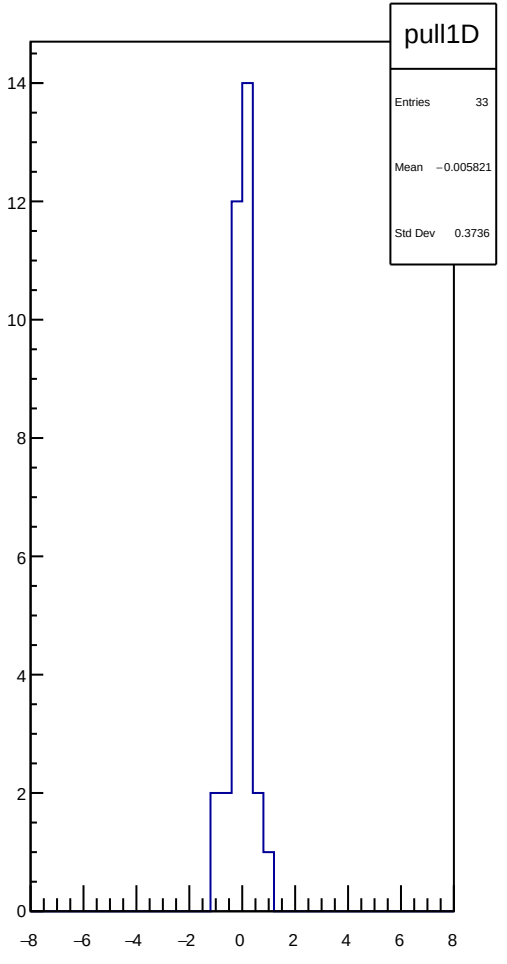

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

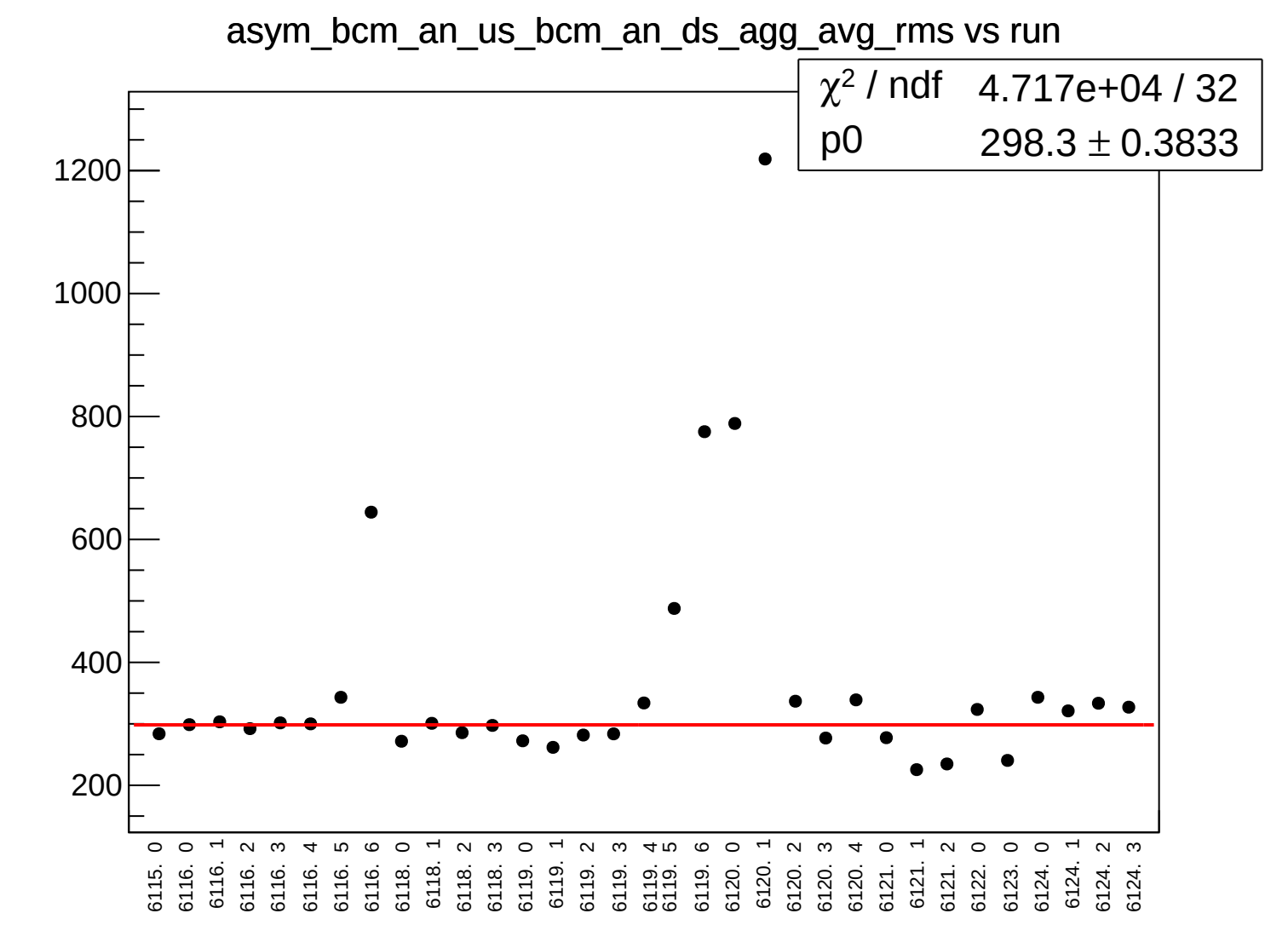

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 32
p0 0 ± 0.1741
1
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

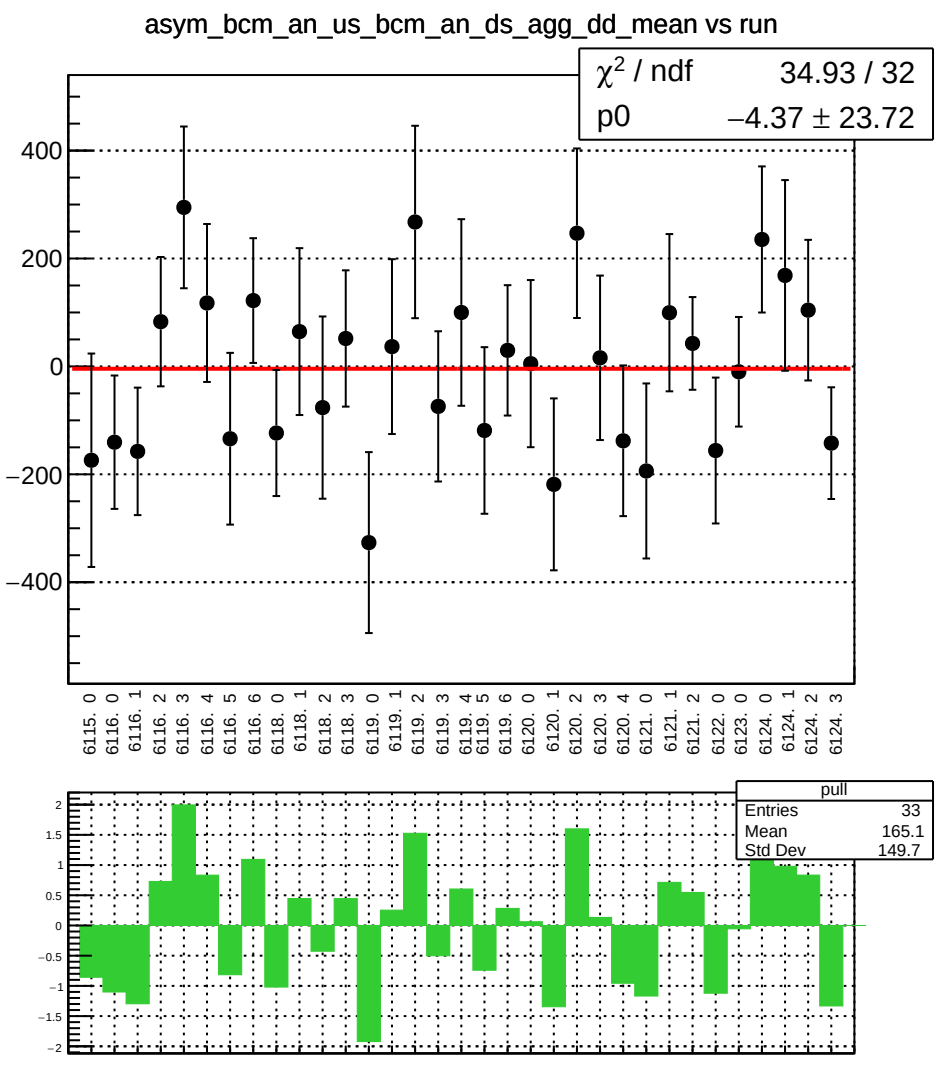

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 27.33 / 32
p0 −5429 ± 3052
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 64.37
Std Dev 64.21
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0032
Std Dev 0.9101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

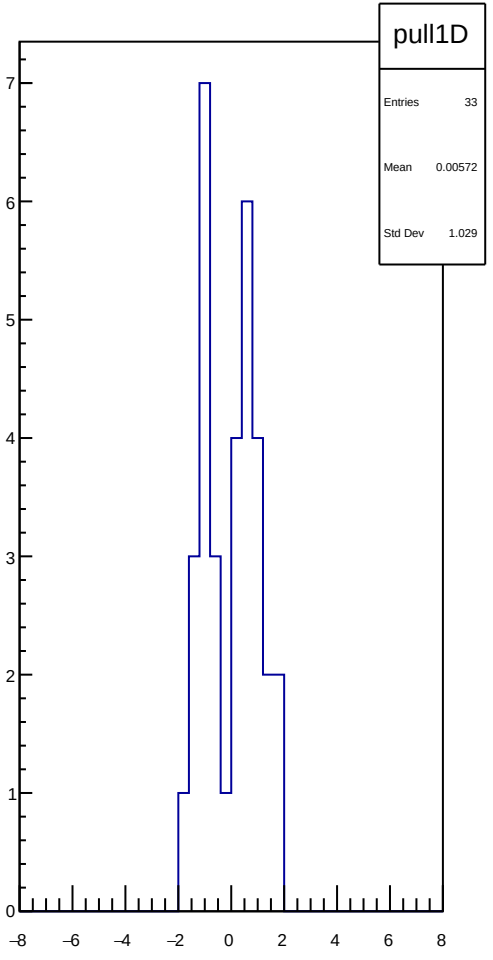

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4773 / 32
p0 1738 ± 2.158
3200
3000
2800
2600
2400
2200
2000
1800
1600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

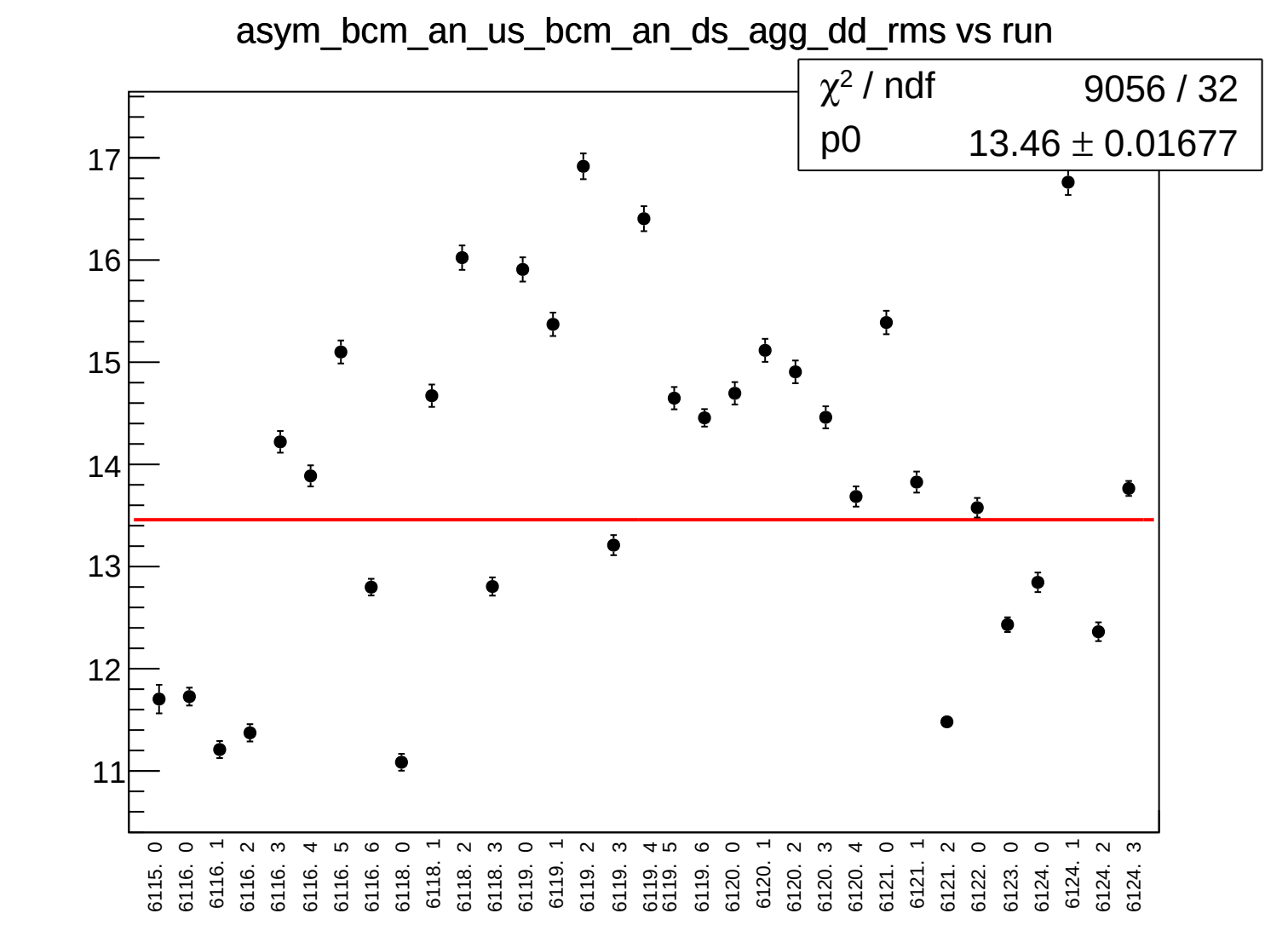

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.607 / 32
p0 138.1 ± 542
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 73.28
Std Dev 56.71
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

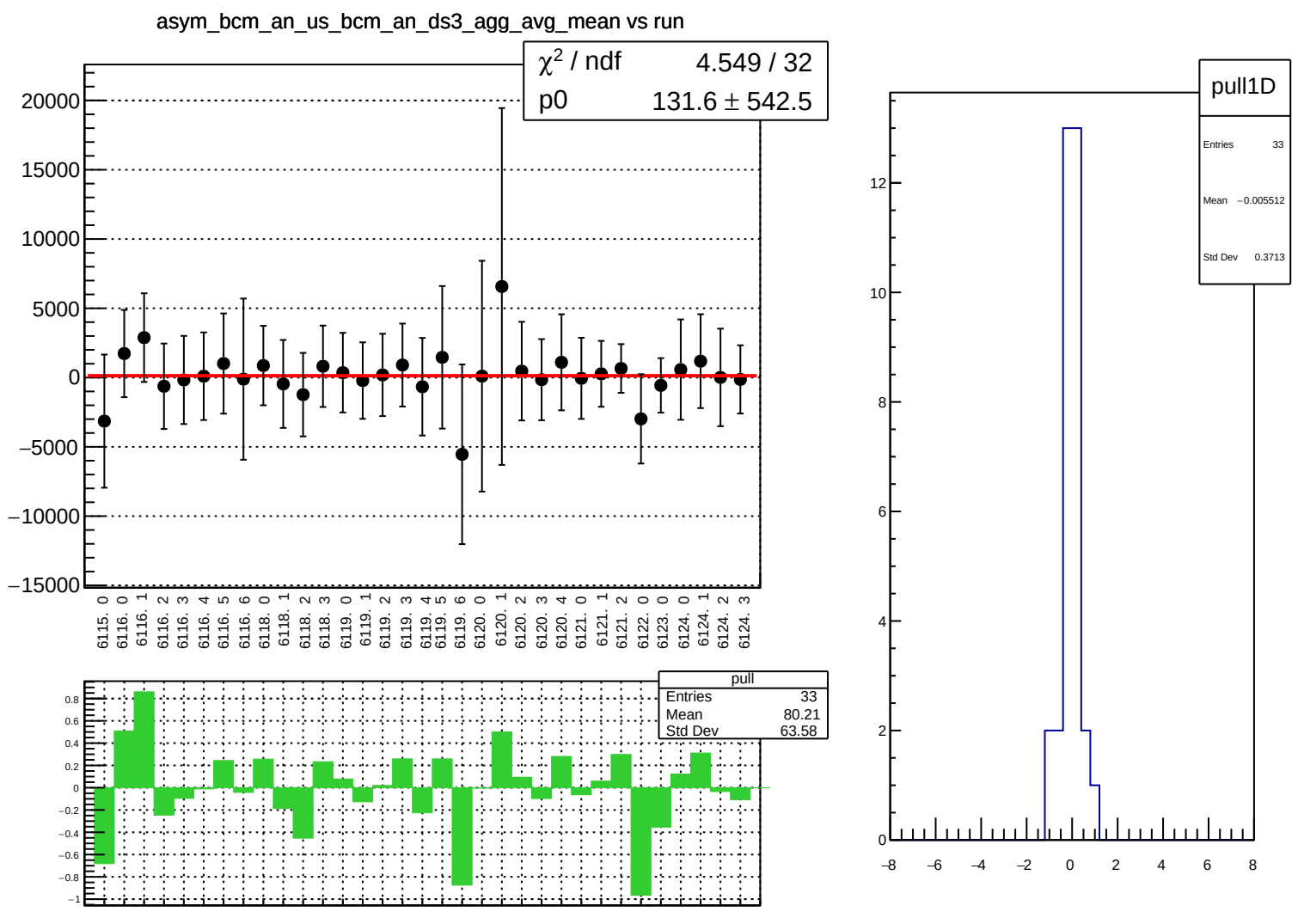

pull1D
Entries 33
Mean −0.005821
Std Dev 0.3736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

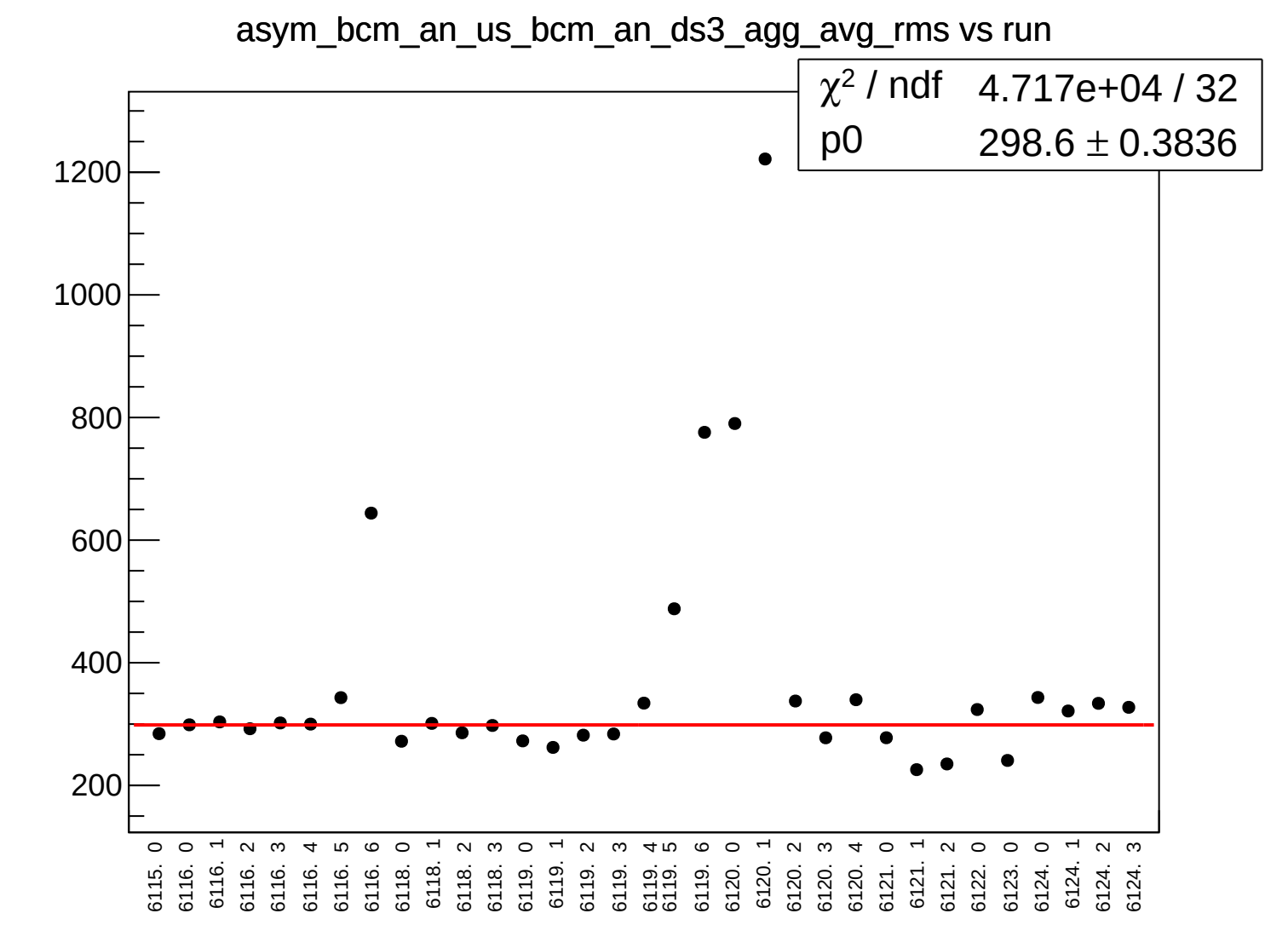

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.717e+04 / 32
p0 298.3 ± 0.3833
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

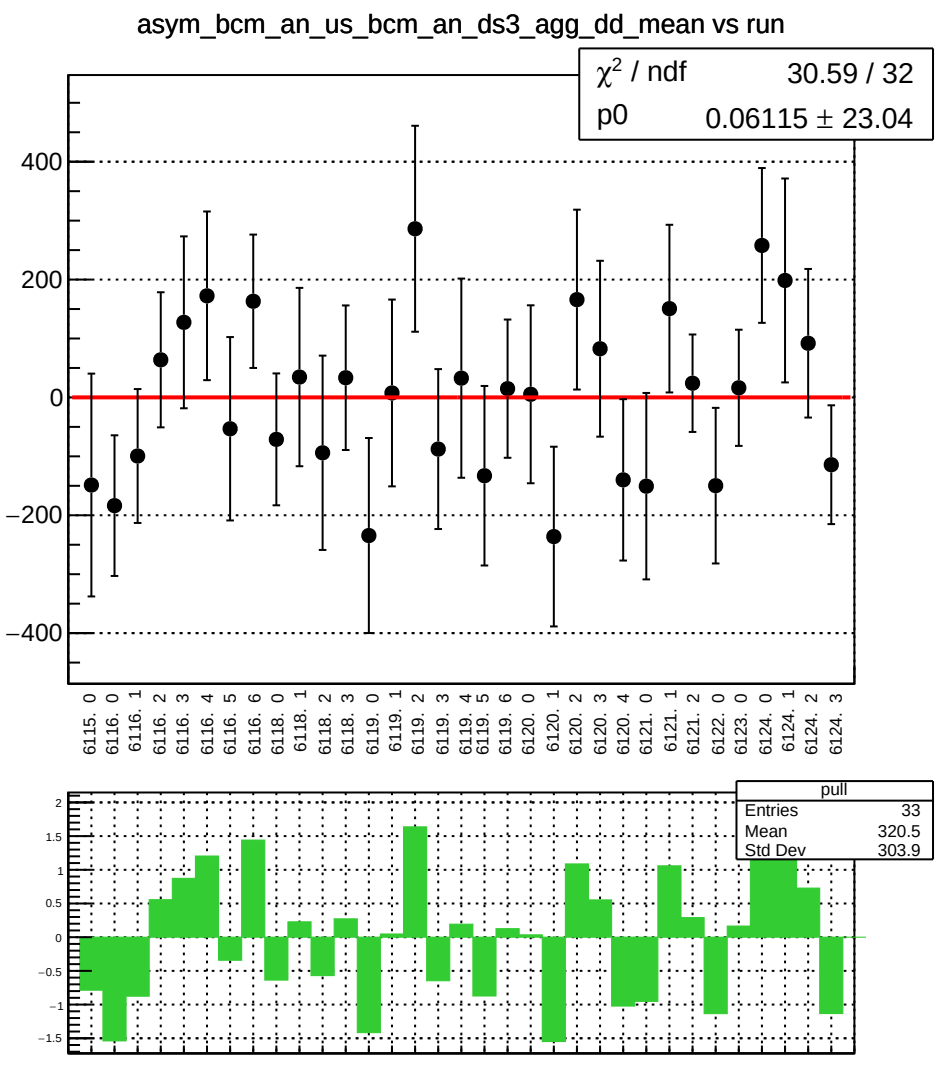

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 34.93 / 32
p0 −4.37 ± 23.72
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 165.1
Std Dev 149.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

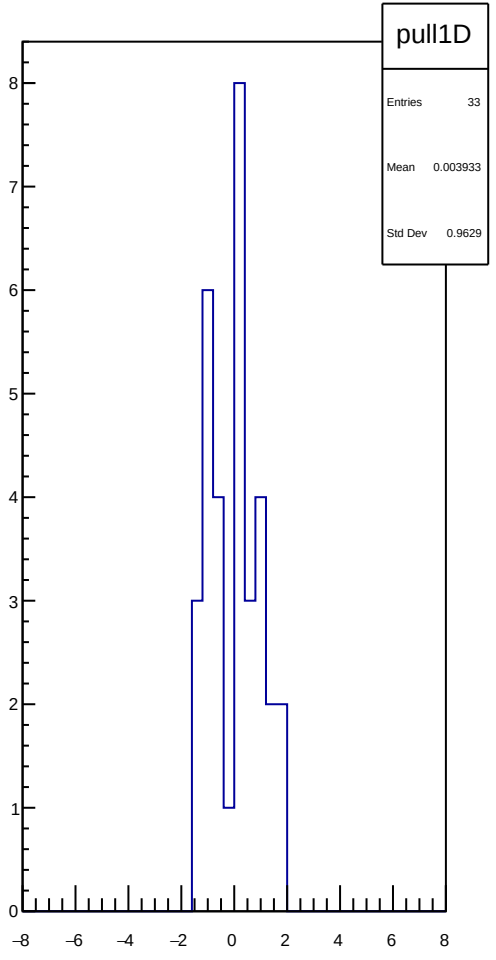

pull1D
Entries 33
Mean 0.00572
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

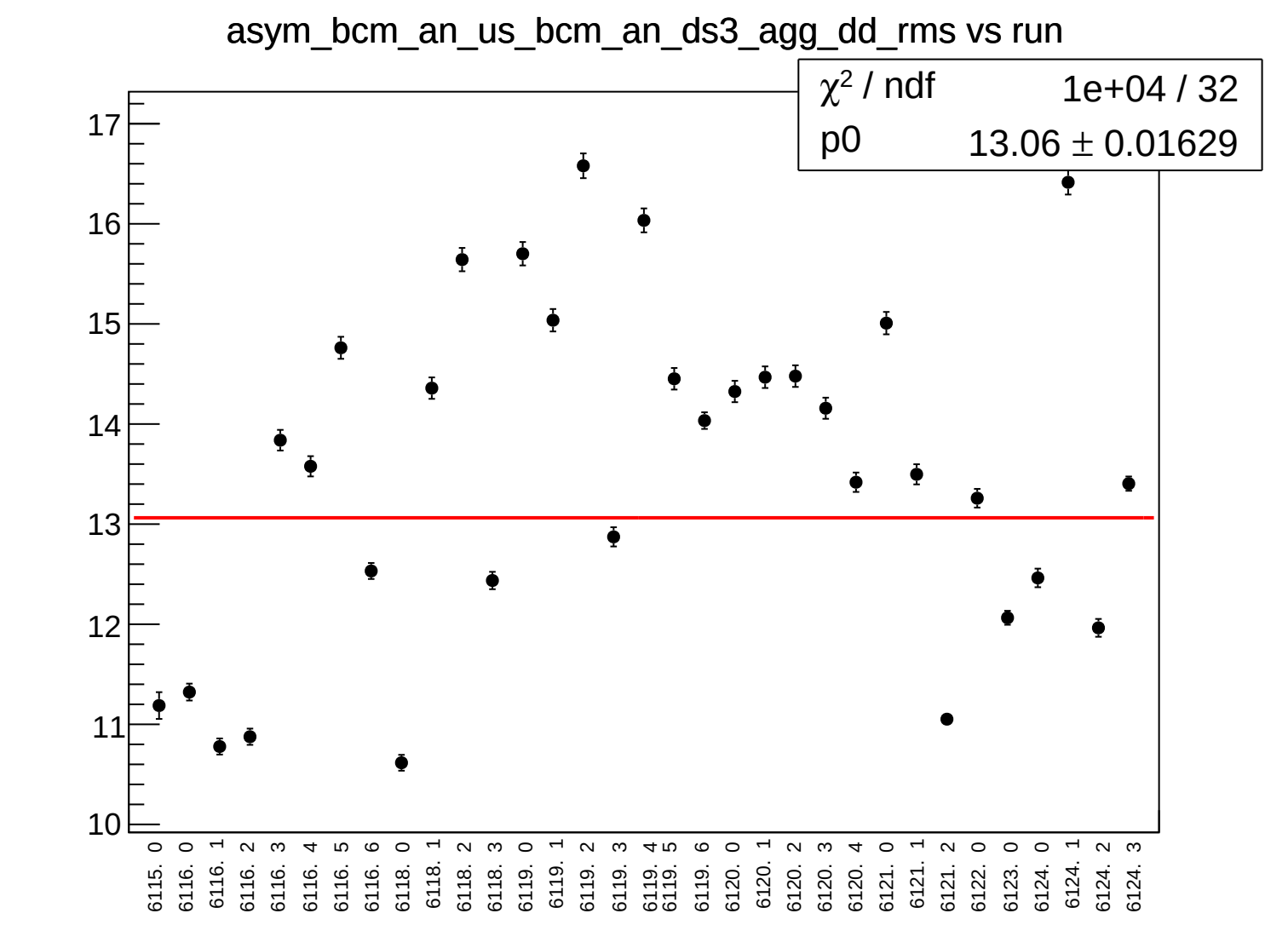

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9056 / 32
p0 13.46 ± 0.01677
17
16
15
14
13
12
11
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

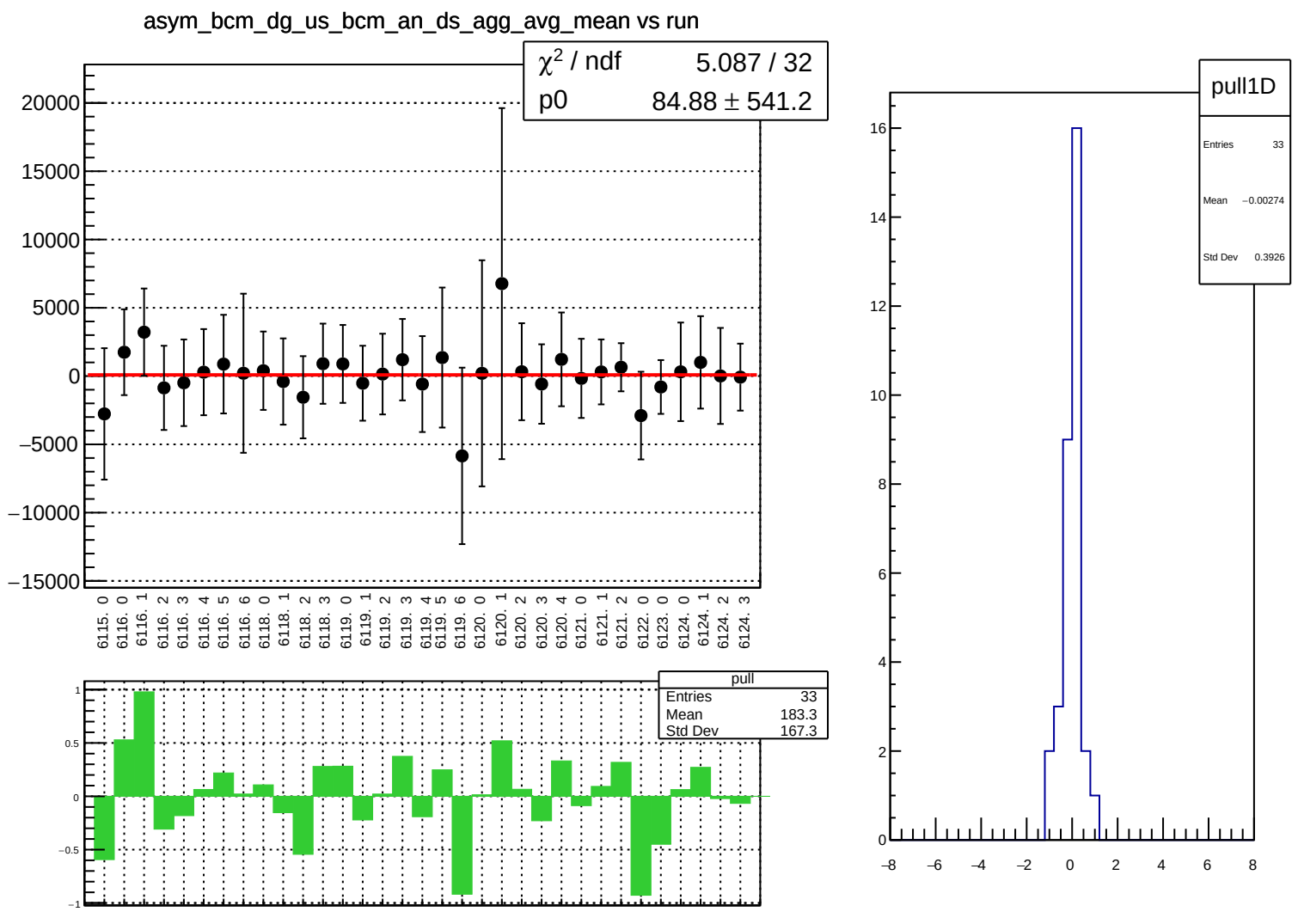

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 4.549 / 32
p0 131.6 ± 542.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 80.21
Std Dev 63.58
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 33
Mean −0.005512
Std Dev 0.3713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

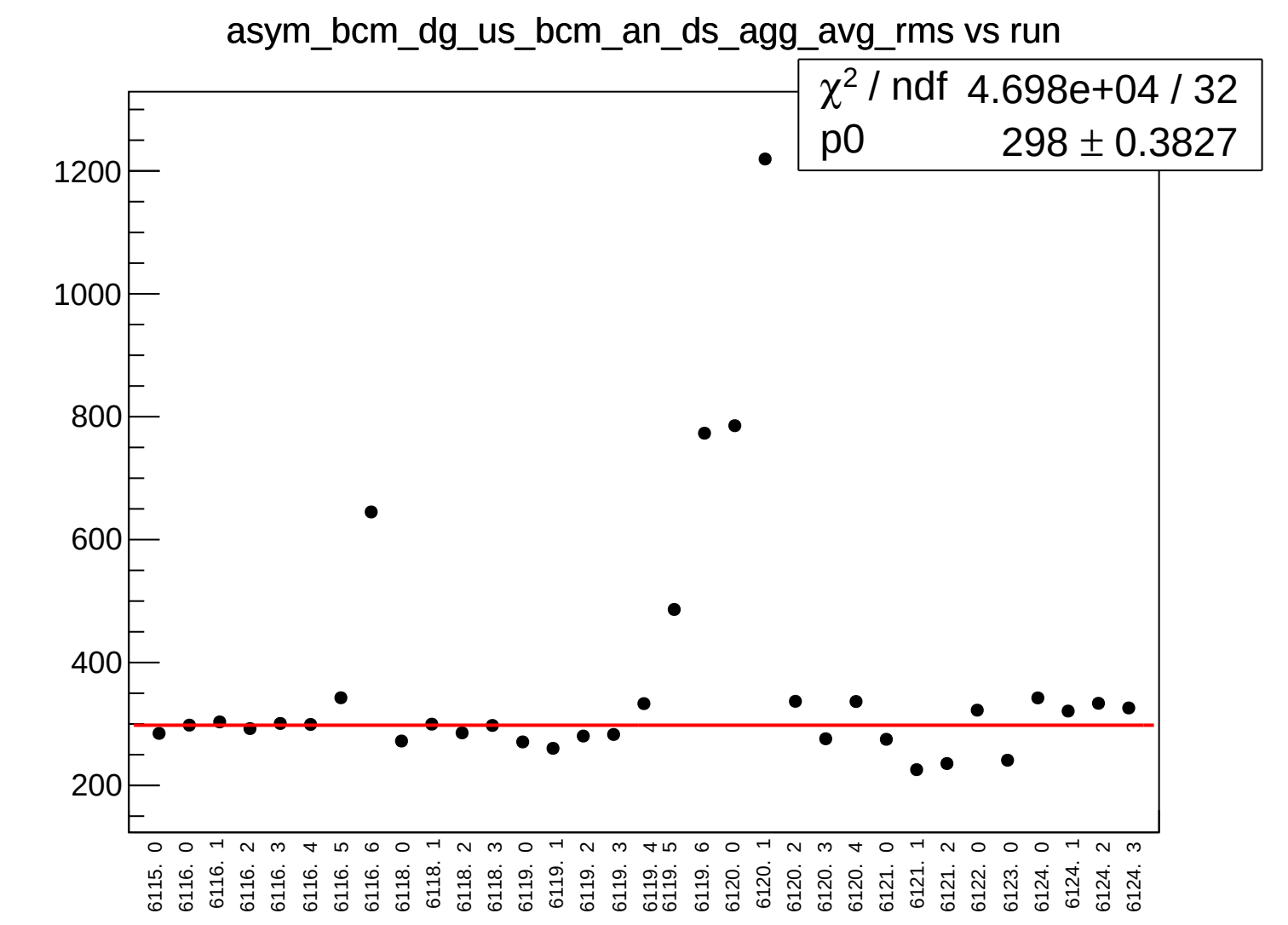

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.717e+04 / 32
p0 298.6 ± 0.3836
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

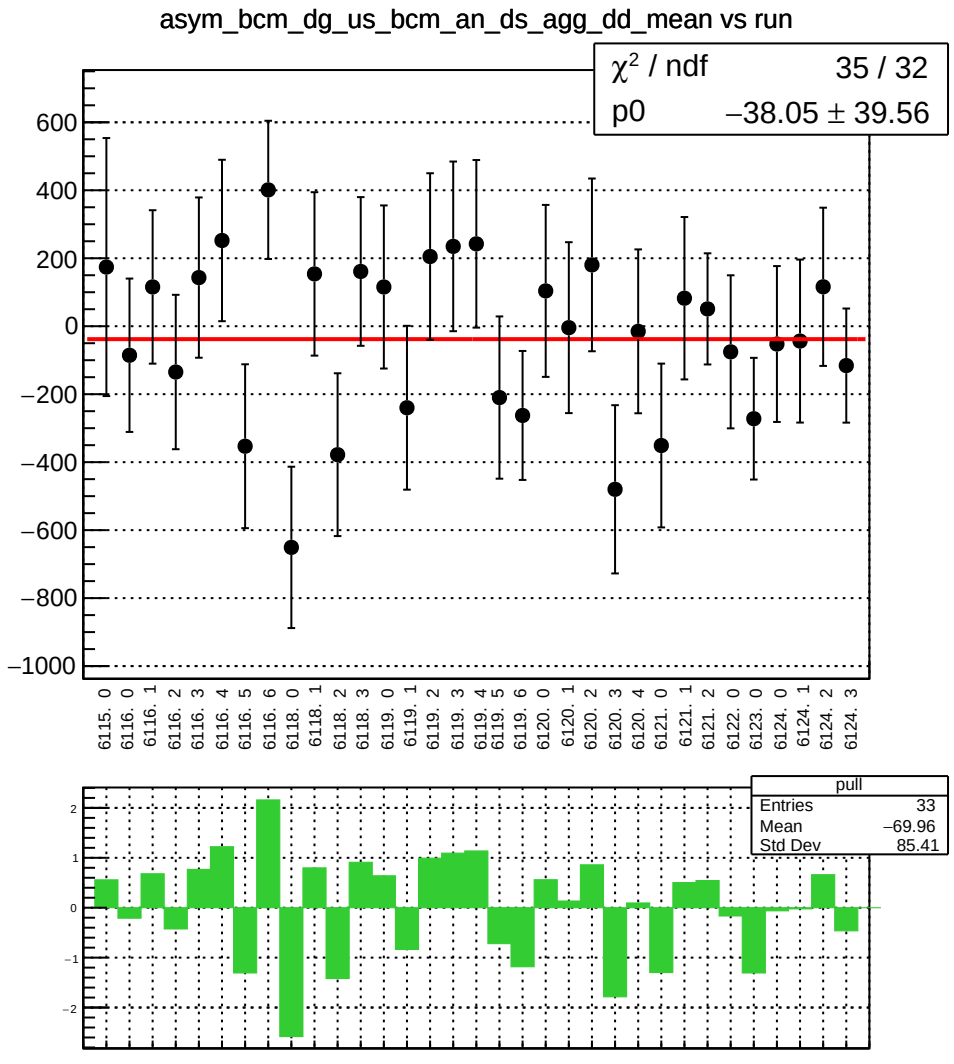

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 30.59 / 32
p0 0.06115 ± 23.04
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 320.5
Std Dev 303.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

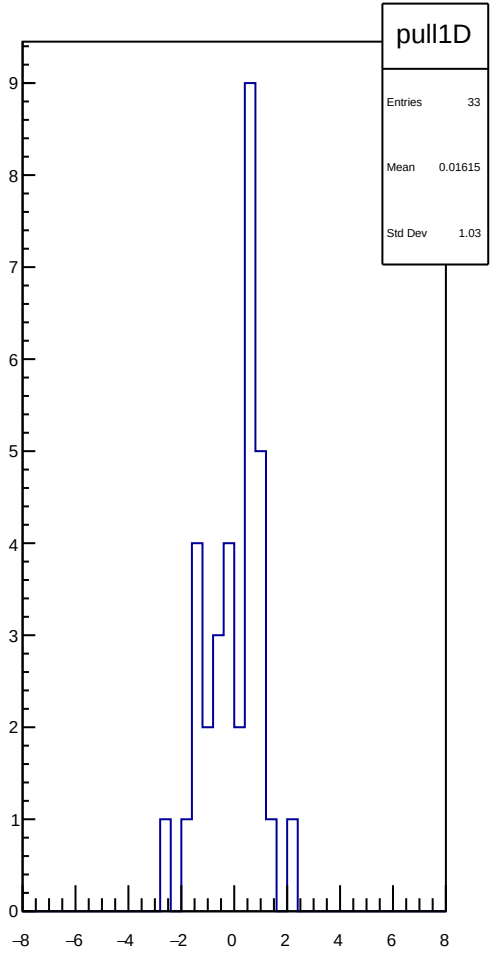

pull1D
Entries 33
Mean 0.003933
Std Dev 0.9629
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

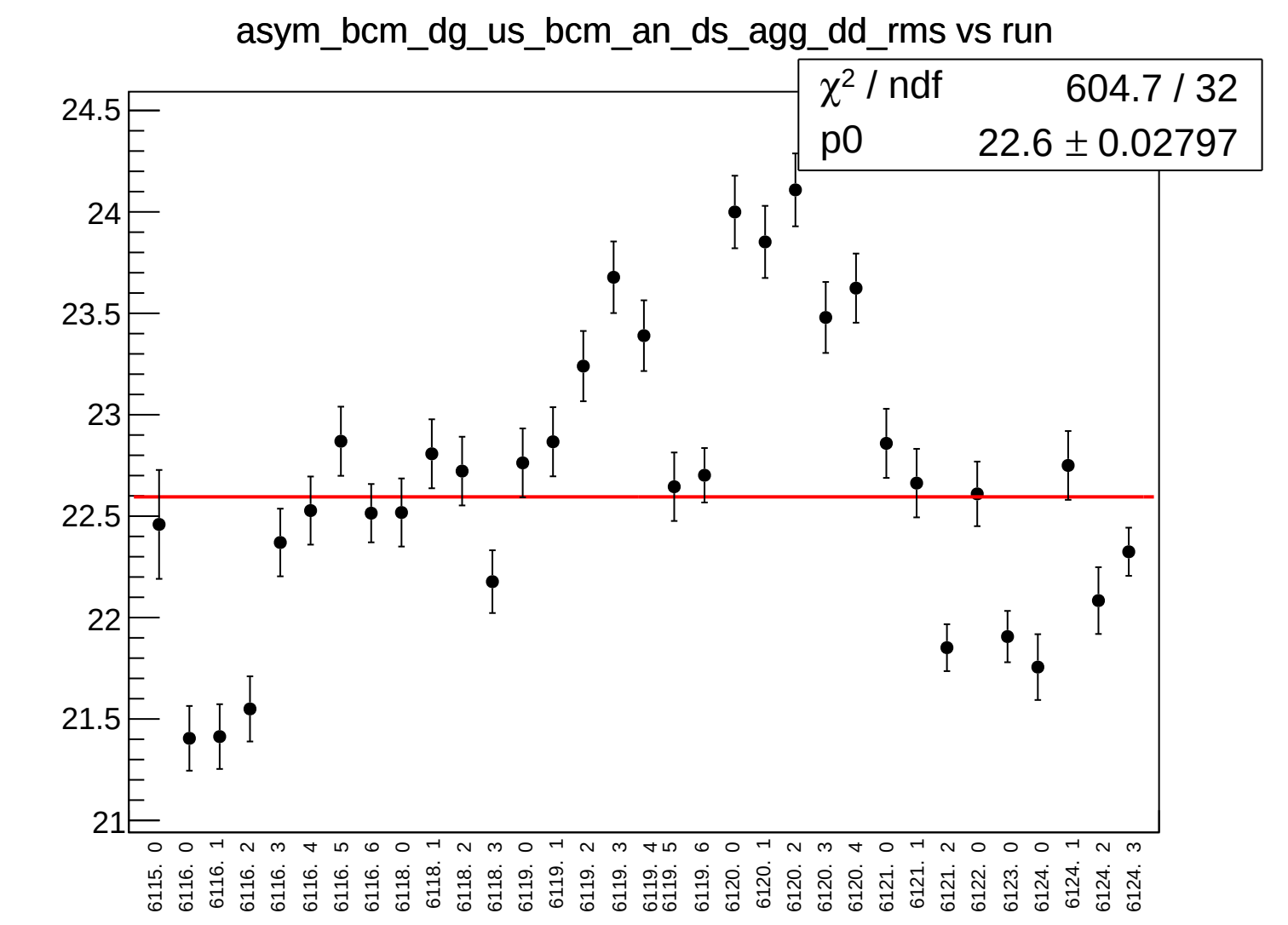

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1e+04 / 32
p0 13.06 ± 0.01629
17
16
15
14
13
12
11
10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

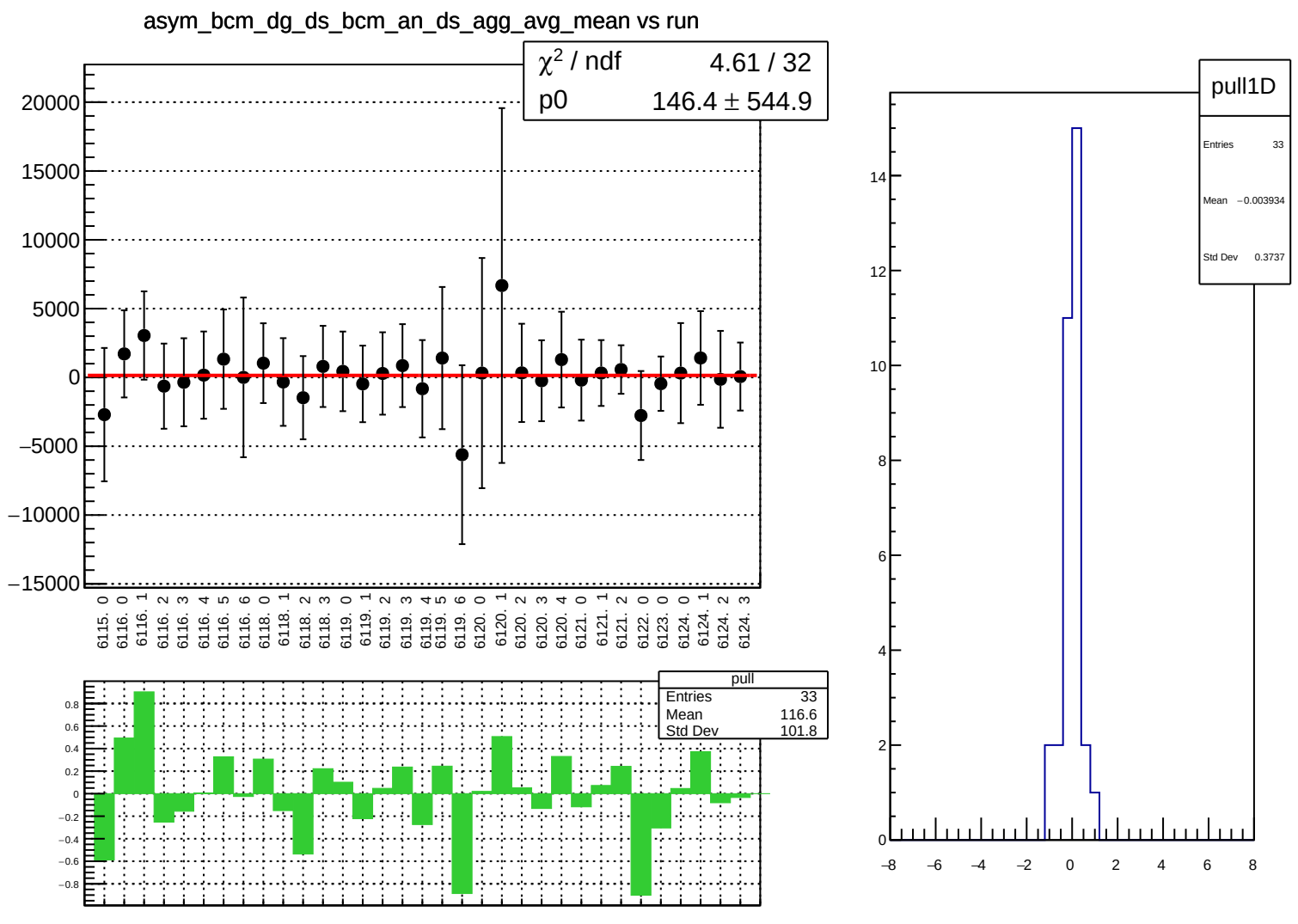

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.087 / 32
p0 84.88 ± 541.2
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 183.3
Std Dev 167.3
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.00274
Std Dev 0.3926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

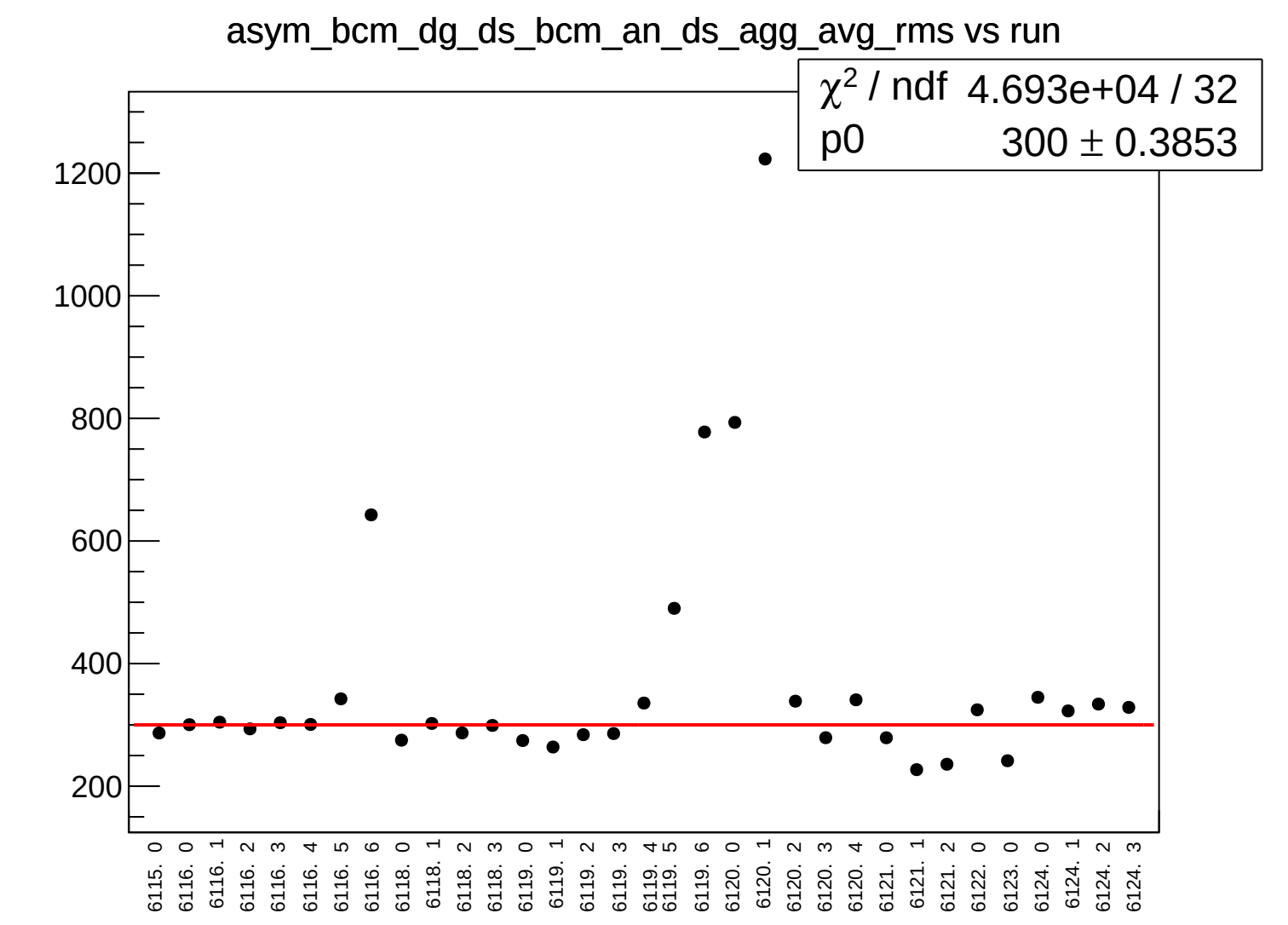

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.698e+04 / 32
p0 298 ± 0.3827
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 35 / 32
p0 −38.05 ± 39.56
600
400
200
0
−200
−400
−600
−800
−1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −69.96
Std Dev 85.41
2
1
0
−1
−2


pull1D
Entries 33
Mean 0.01615
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 604.7 / 32
p0 22.6 ± 0.02797
24.5
24
23.5
23
22.5
22
21.5
21
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.61 / 32
p0 146.4 ± 544.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 116.6
Std Dev 101.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.003934
Std Dev 0.3737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.693e+04 / 32
p0 300 ± 0.3853
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
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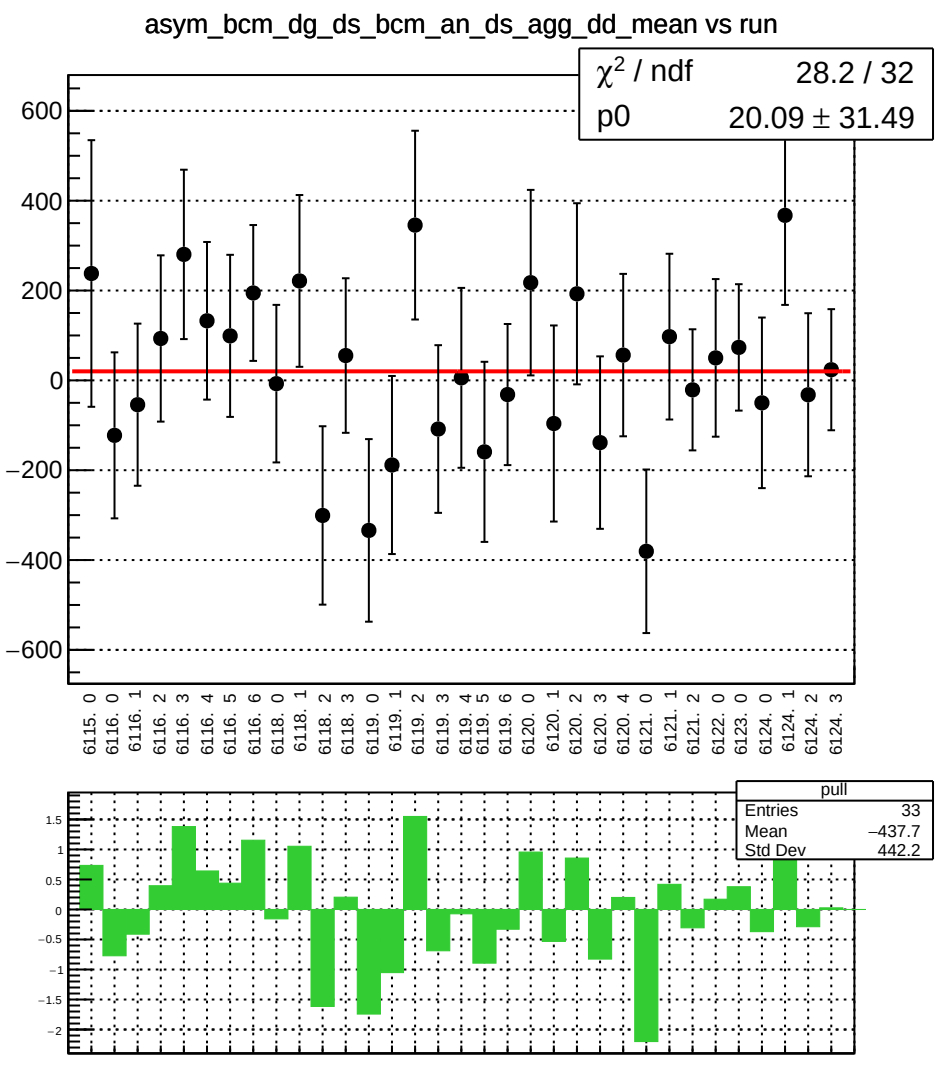
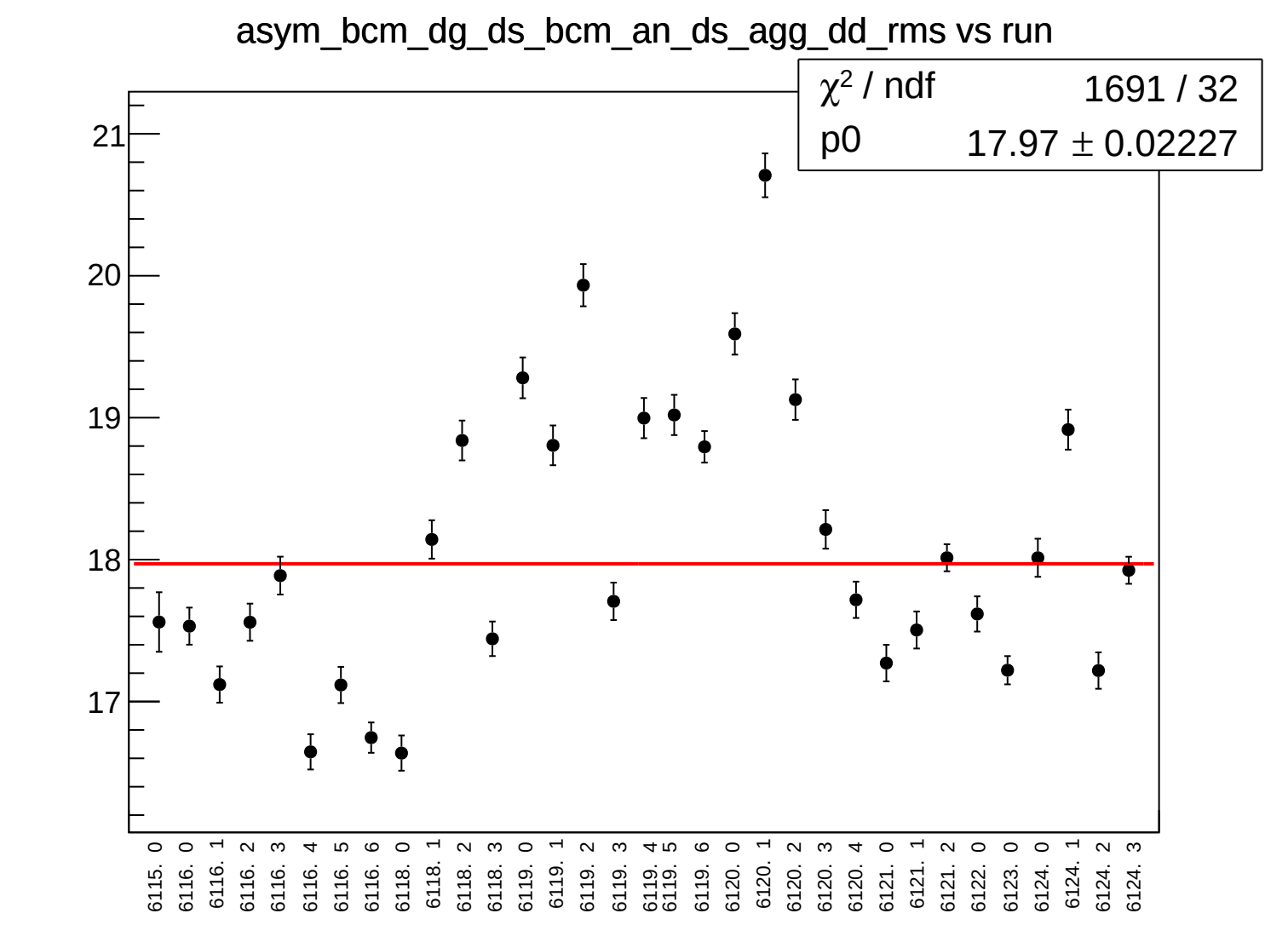
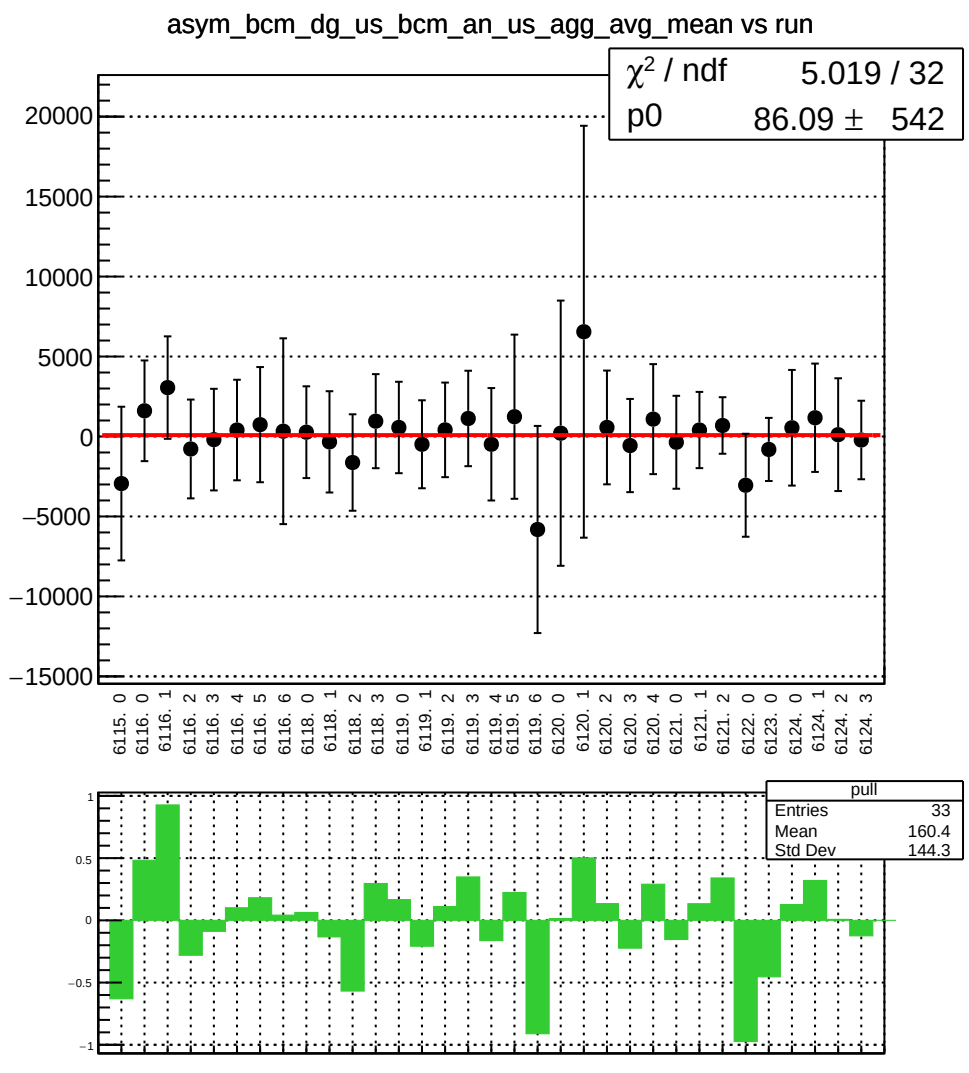
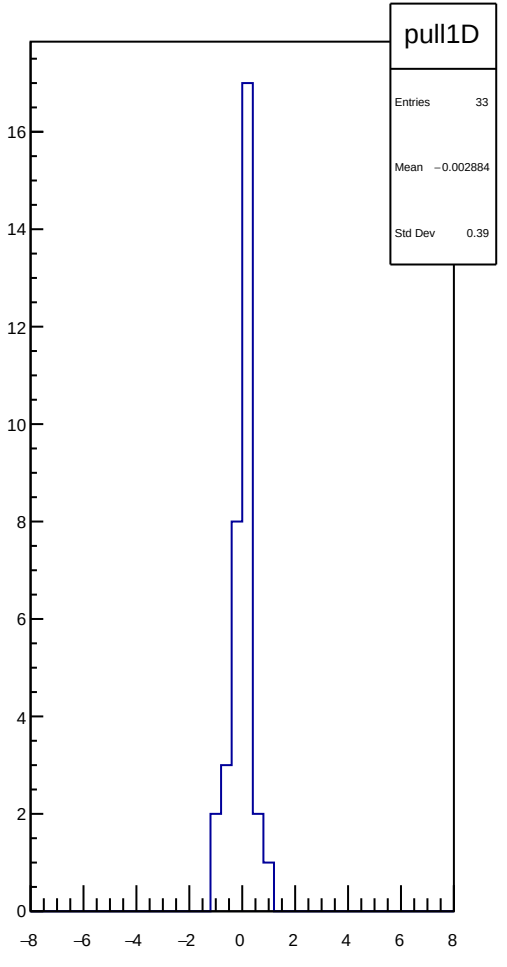
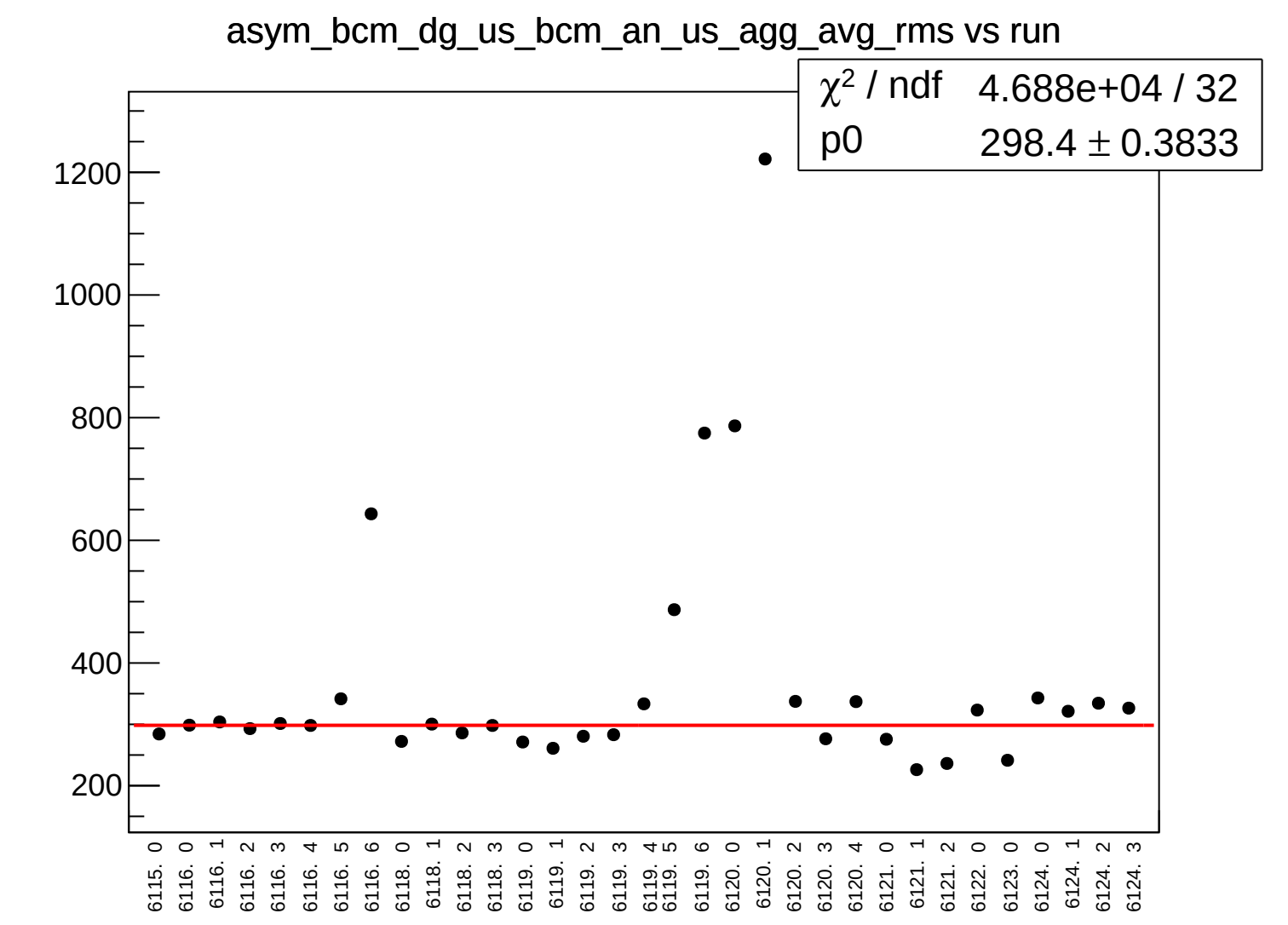
6124. 2
6124. 3

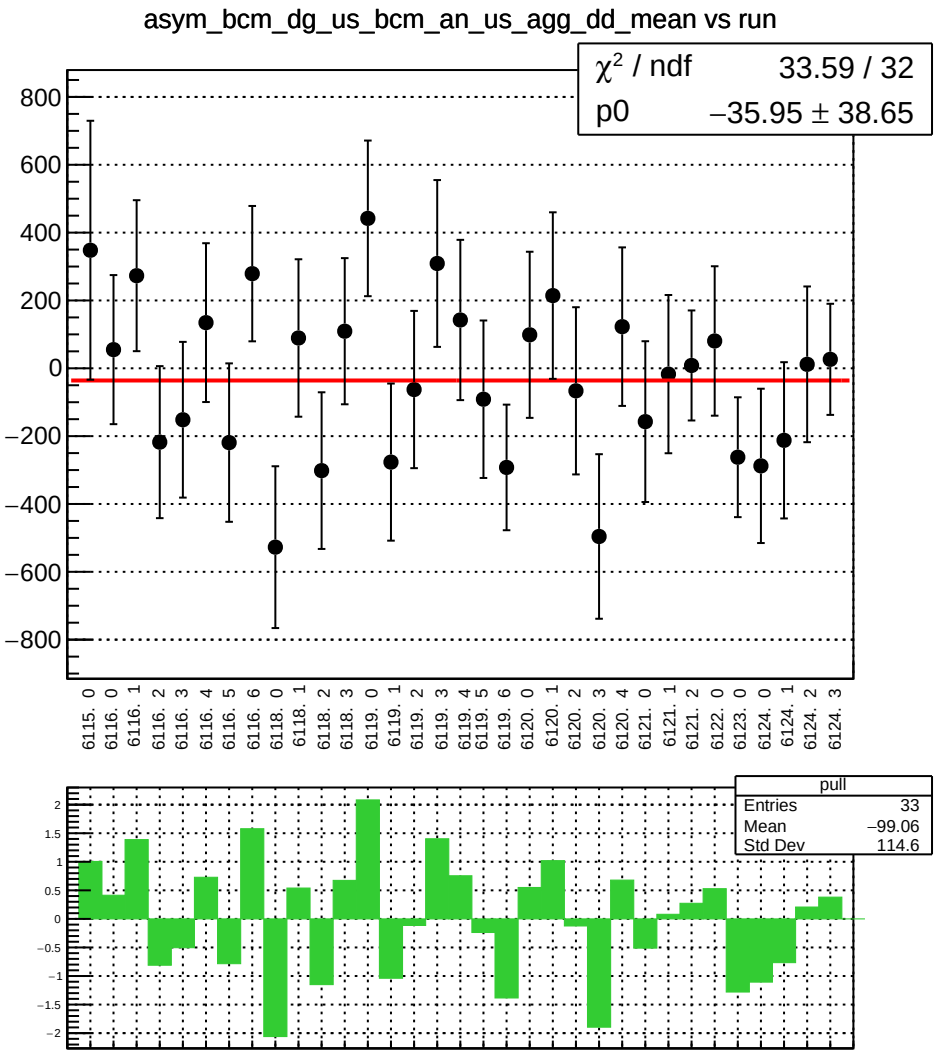

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 28.2 / 32
p0 20.09 ± 31.49
600
400
200
0
−200
−400
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −437.7
Std Dev 442.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.001502
Std Dev 0.9244
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

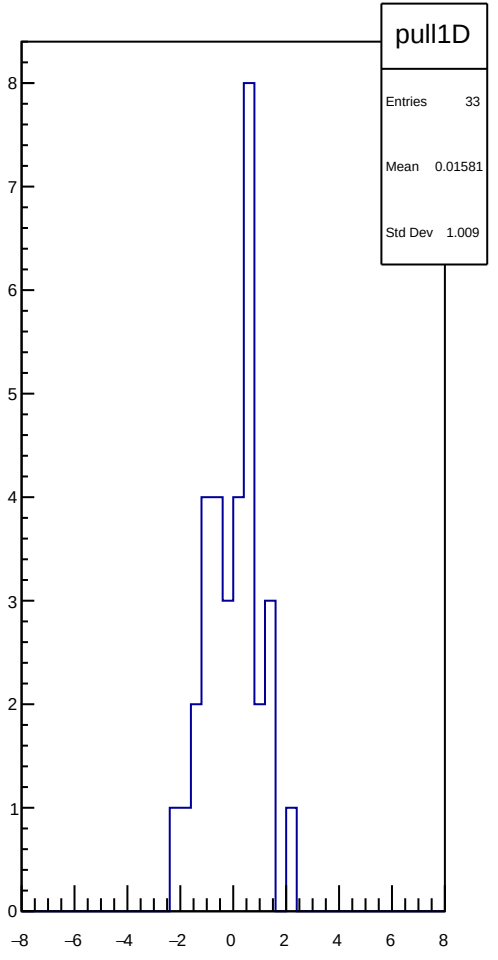

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1691 / 32
p0 17.97 ± 0.02227
21
20
19
18
17
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.019 / 32
p0 86.09 ± 542
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 160.4
Std Dev 144.3
1
0.5
0
−0.5
−1


pull1D
Entries 33
Mean −0.002884
Std Dev 0.39
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.688e+04 / 32
p0 298.4 ± 0.3833
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 33.59 / 32
p0 −35.95 ± 38.65
800
600
400
200
0
−200
−400
−600
−800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −99.06
Std Dev 114.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 33
Mean 0.01581
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
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−4
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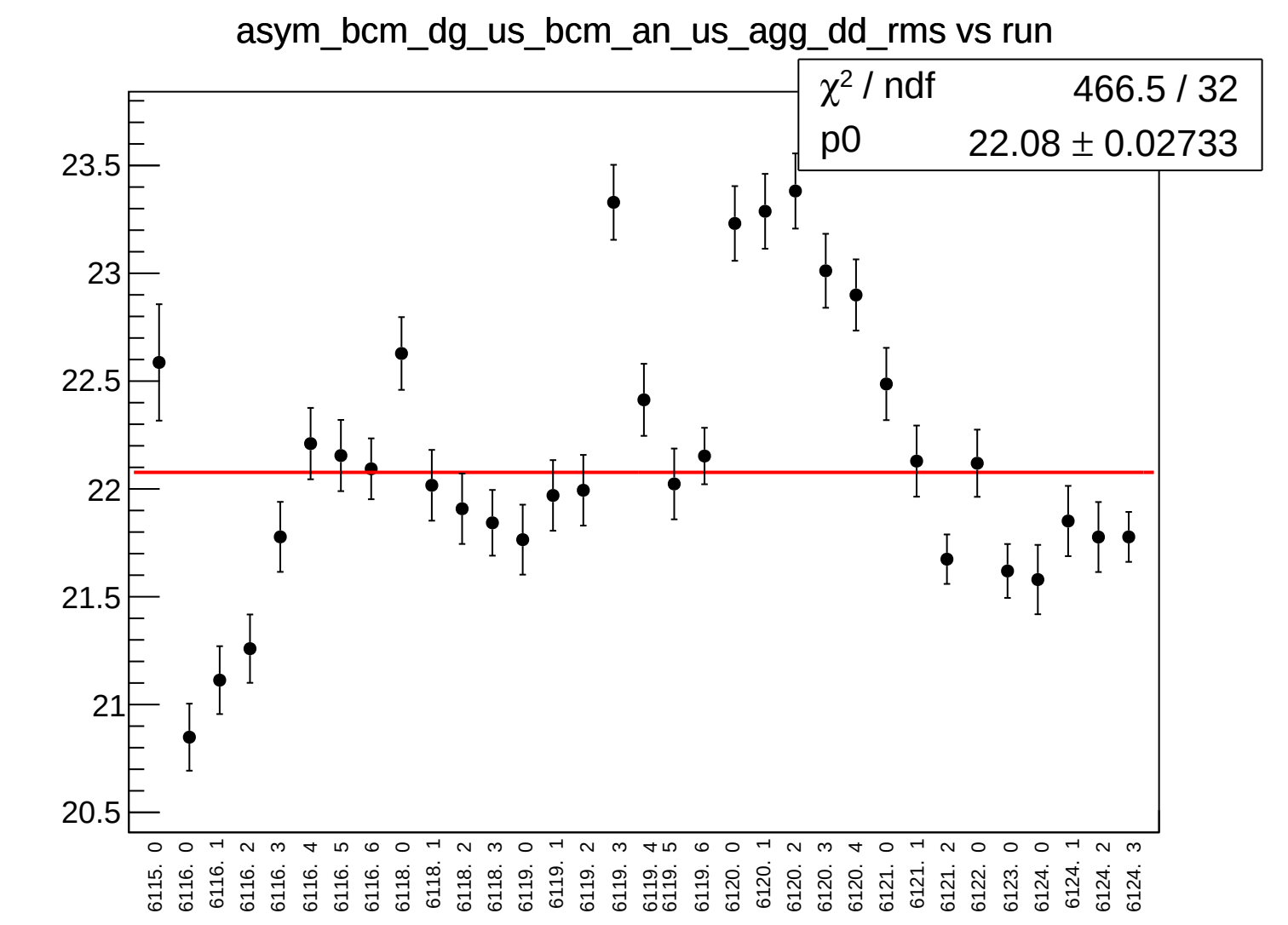
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 466.5 / 32
p0 22.08 ± 0.02733
23.5
23
22.5
22
21.5
21
20.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
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6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
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6120. 3
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6121. 2
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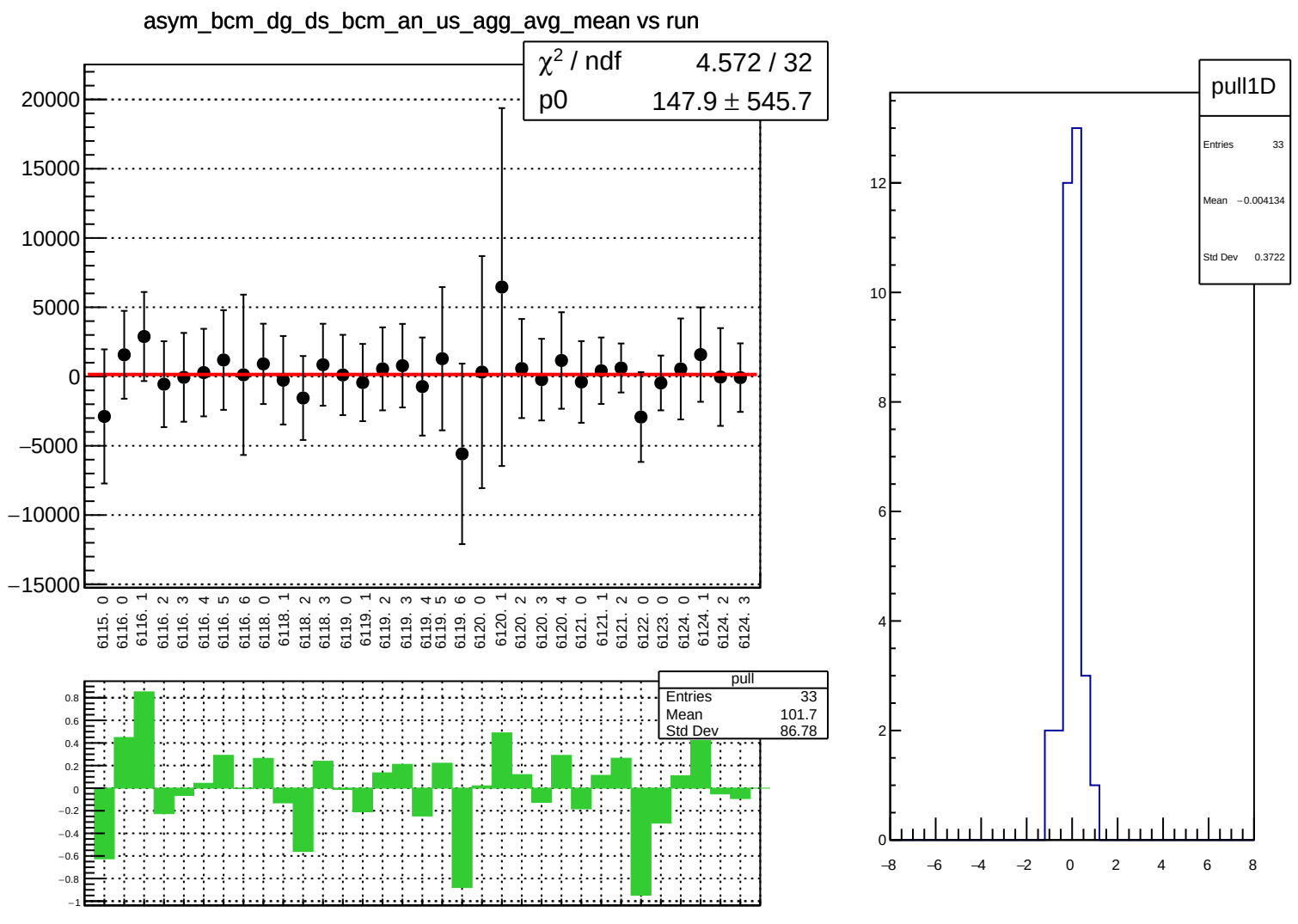
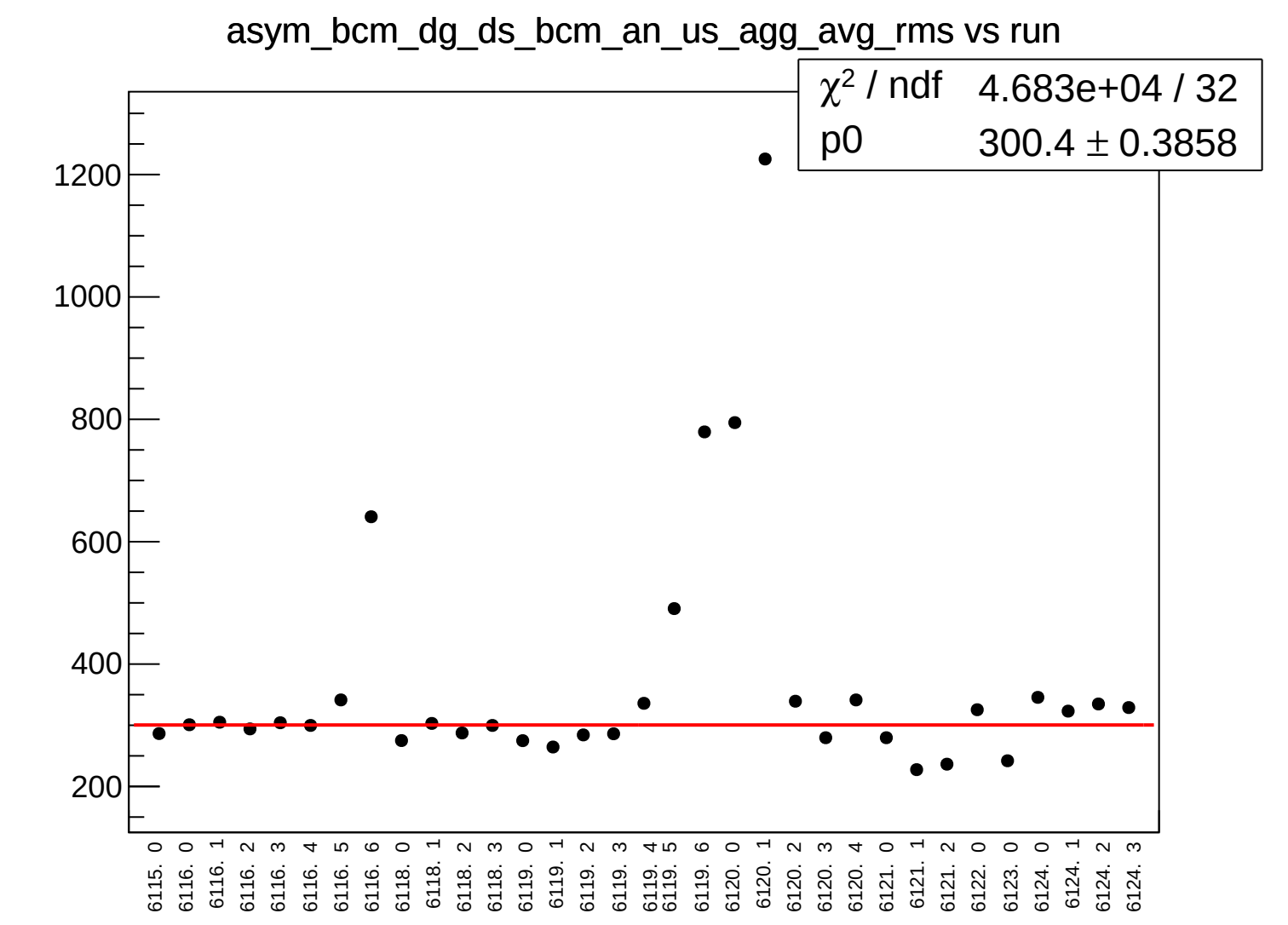
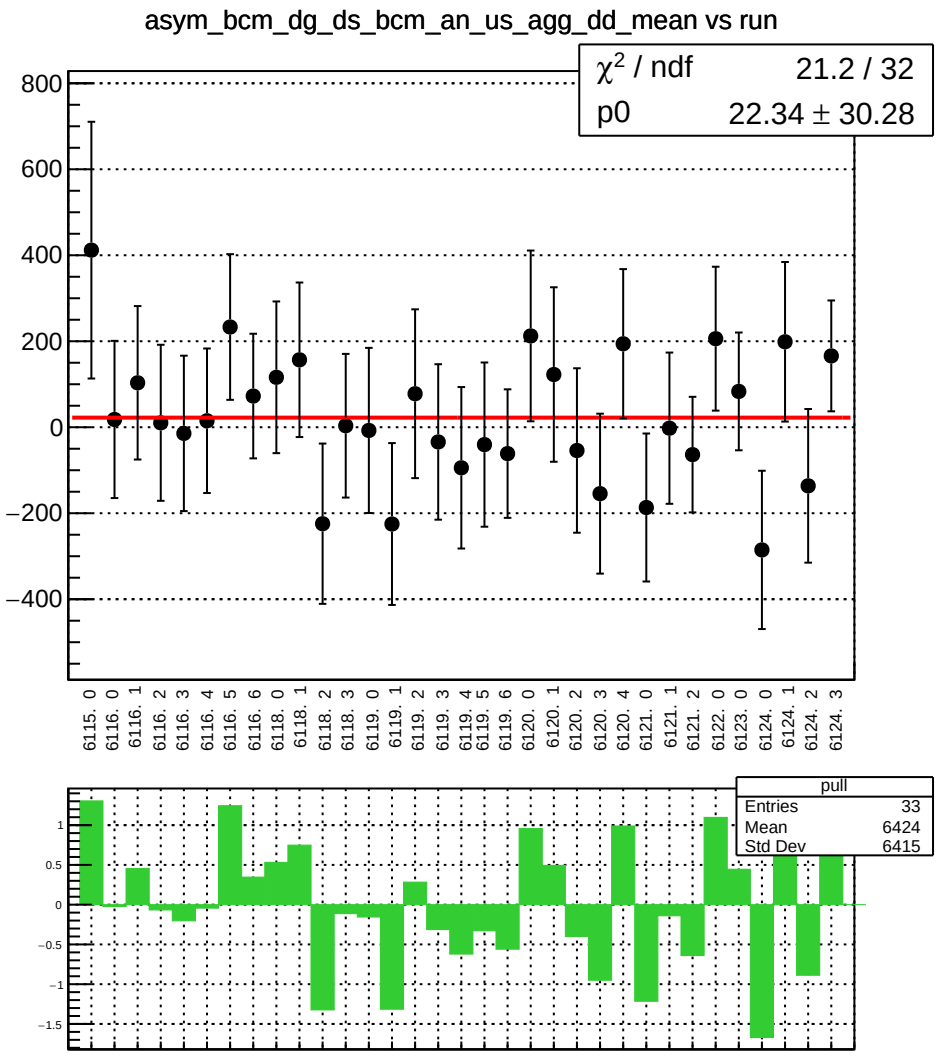
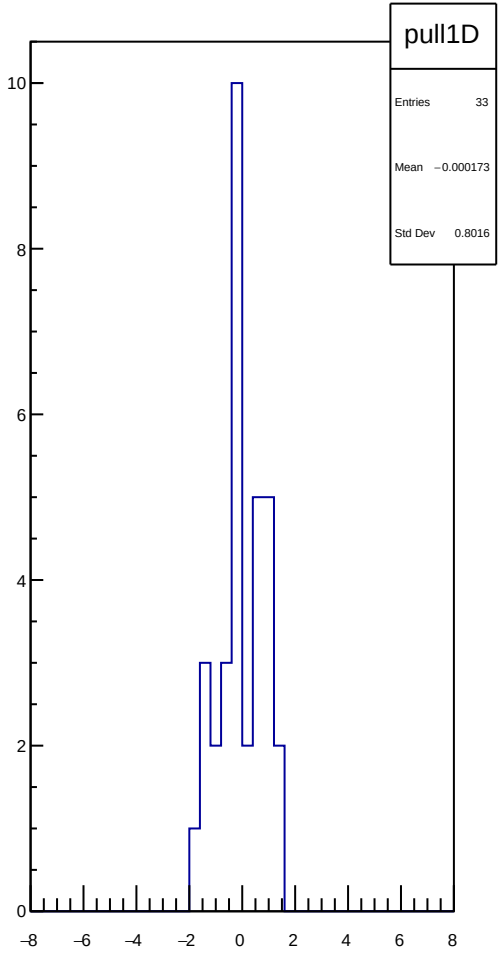
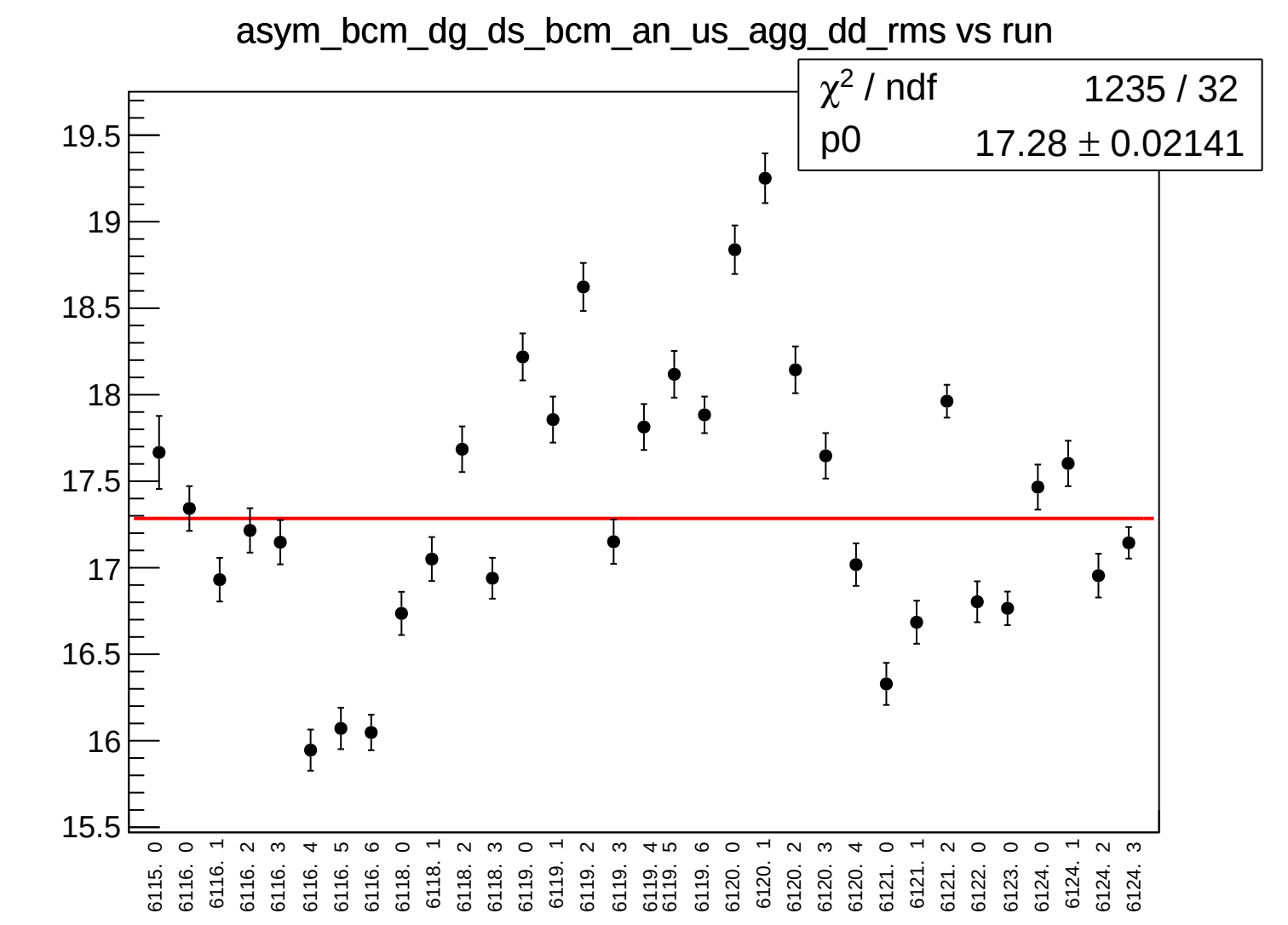
6124. 0
6124. 1
6124. 2
6124. 3

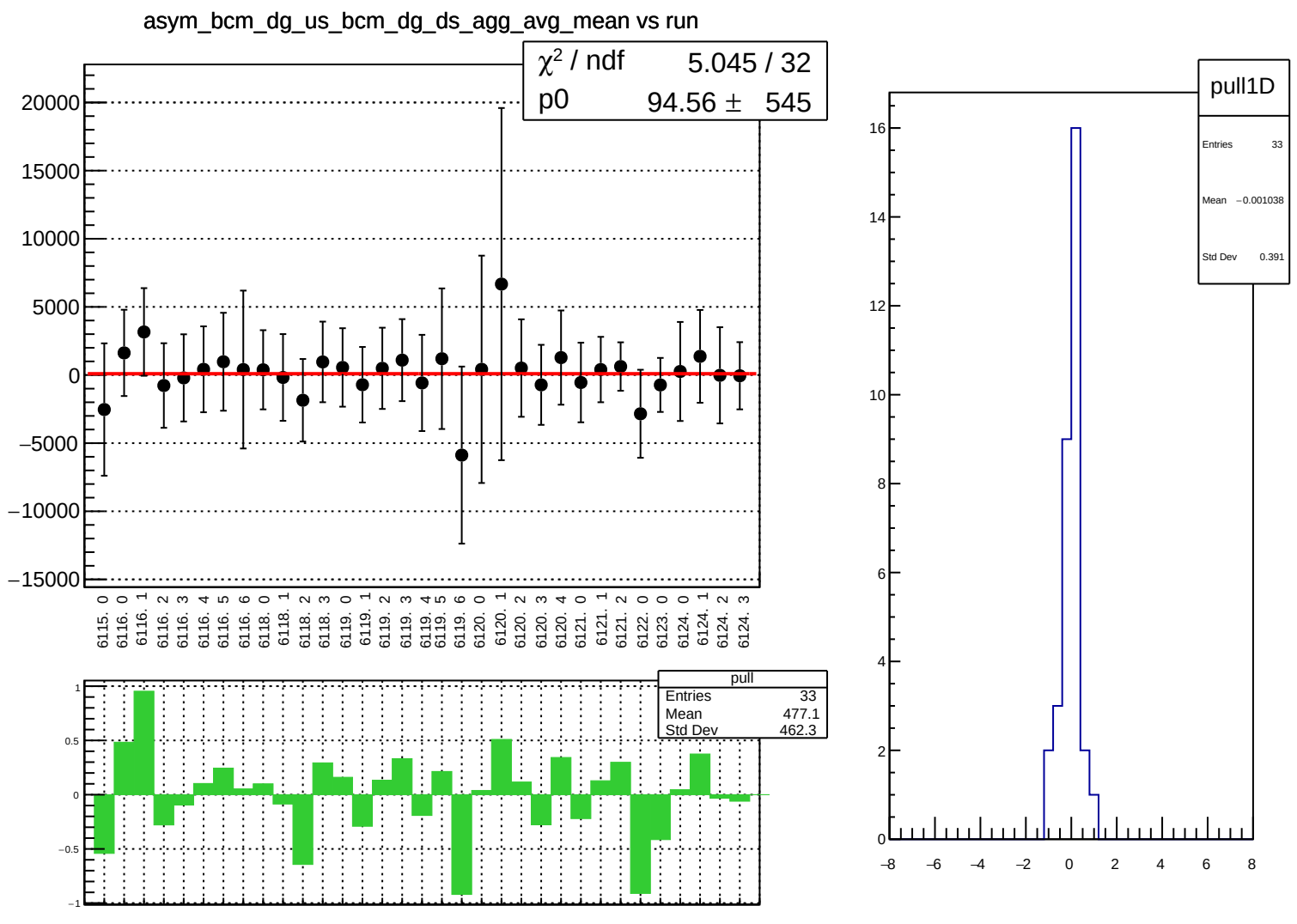

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.572 / 32
p0 147.9 ± 545.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 101.7
Std Dev 86.78
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 33
Mean −0.004134
Std Dev 0.3722
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

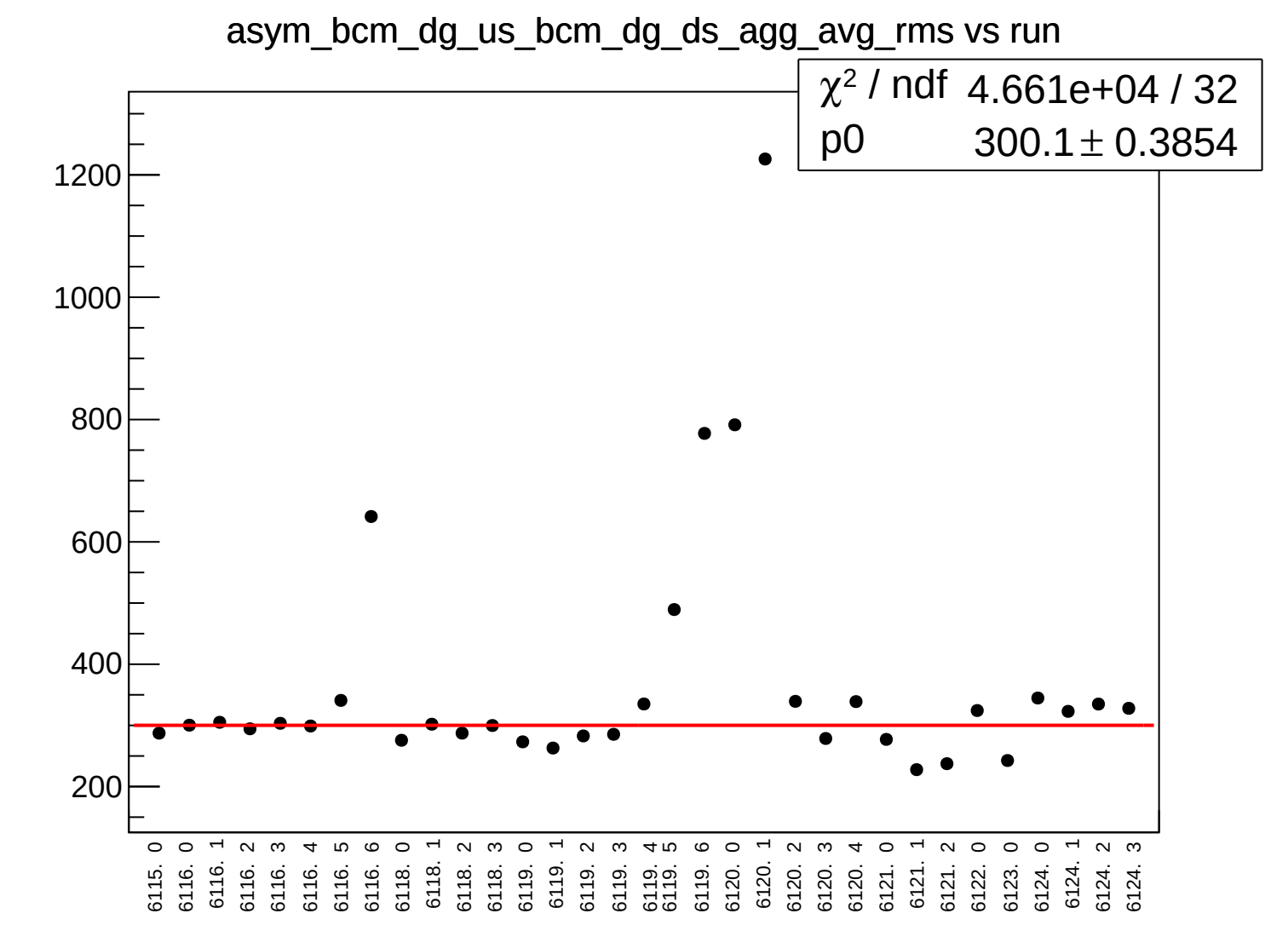

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.683e+04 / 32
p0 300.4 ± 0.3858
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

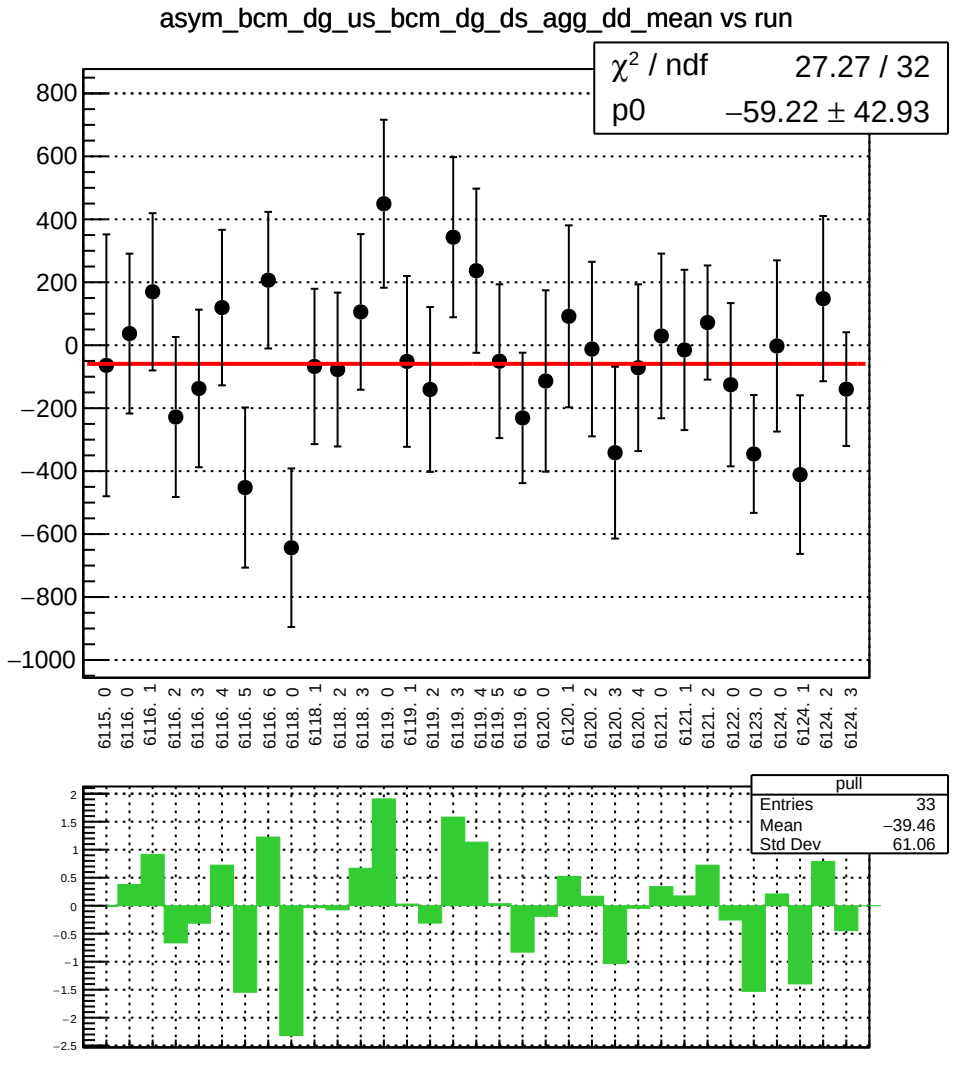

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 21.2 / 32
p0 22.34 ± 30.28
800
600
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 6424
Std Dev 6415
1
0.5
0
−0.5
−1
−1.5

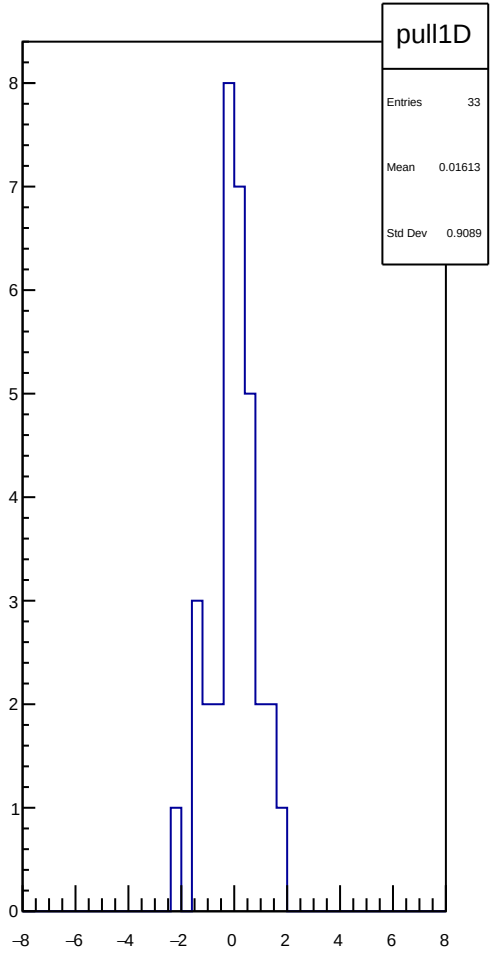

pull1D
Entries 33
Mean −0.000173
Std Dev 0.8016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

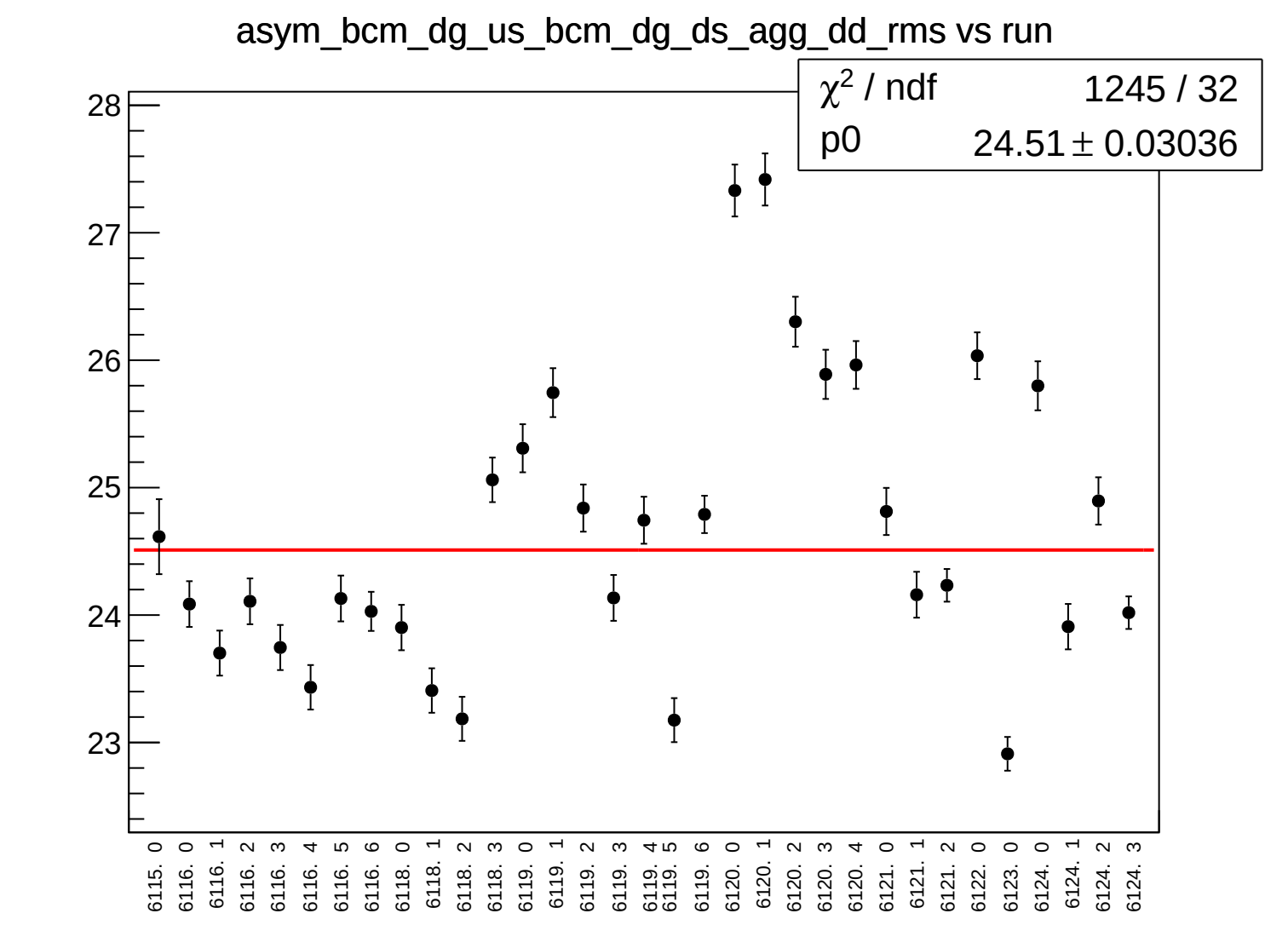

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1235 / 32
p0 17.28 ± 0.02141
19.5
19
18.5
18
17.5
17
16.5
16
15.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.045 / 32
p0 94.56 ± 545
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 477.1
Std Dev 462.3
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.001038
Std Dev 0.391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.661e+04 / 32
p0 300.1 ± 0.3854
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 27.27 / 32
p0 −59.22 ± 42.93
800
600
400
200
0
−200
−400
−600
−800
−1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −39.46
Std Dev 61.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 33
Mean 0.01613
Std Dev 0.9089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1245 / 32
p0 24.51 ± 0.03036
28
27
26
25
24
23
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
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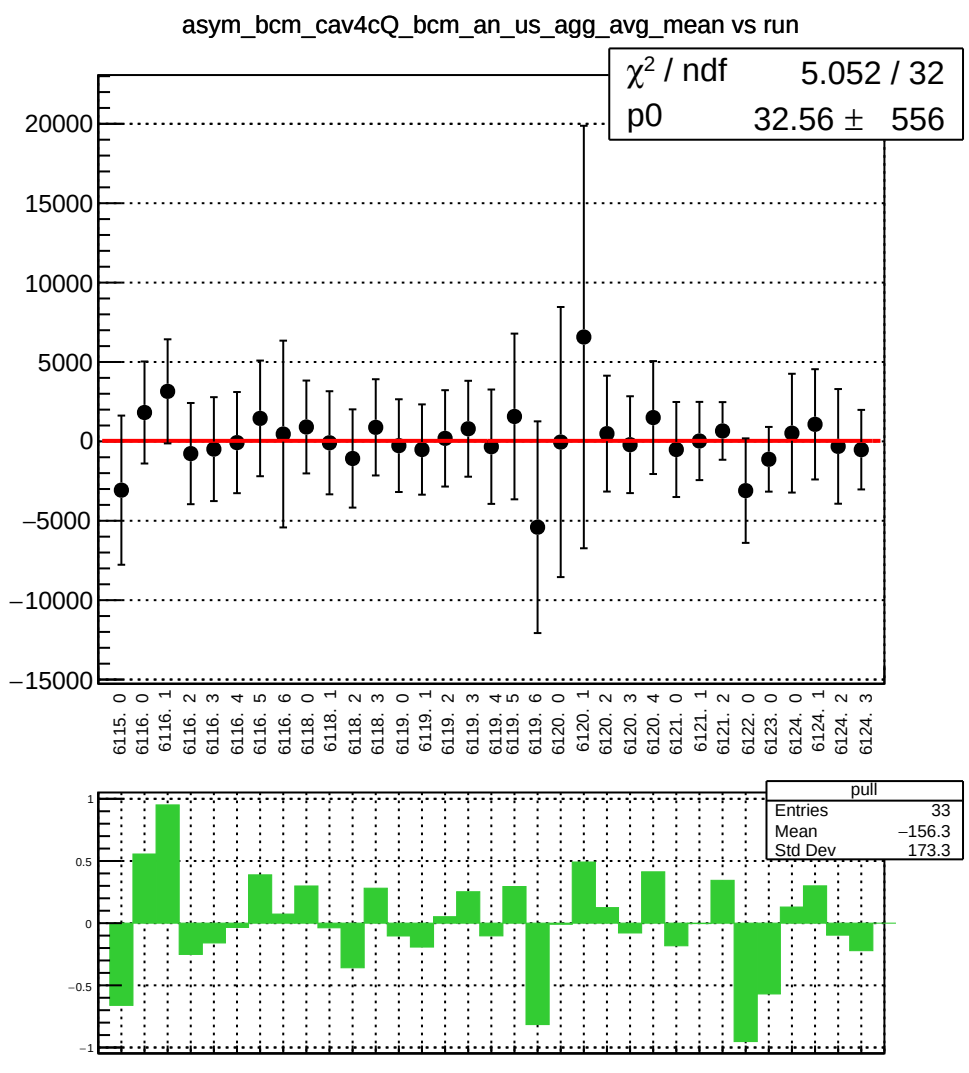
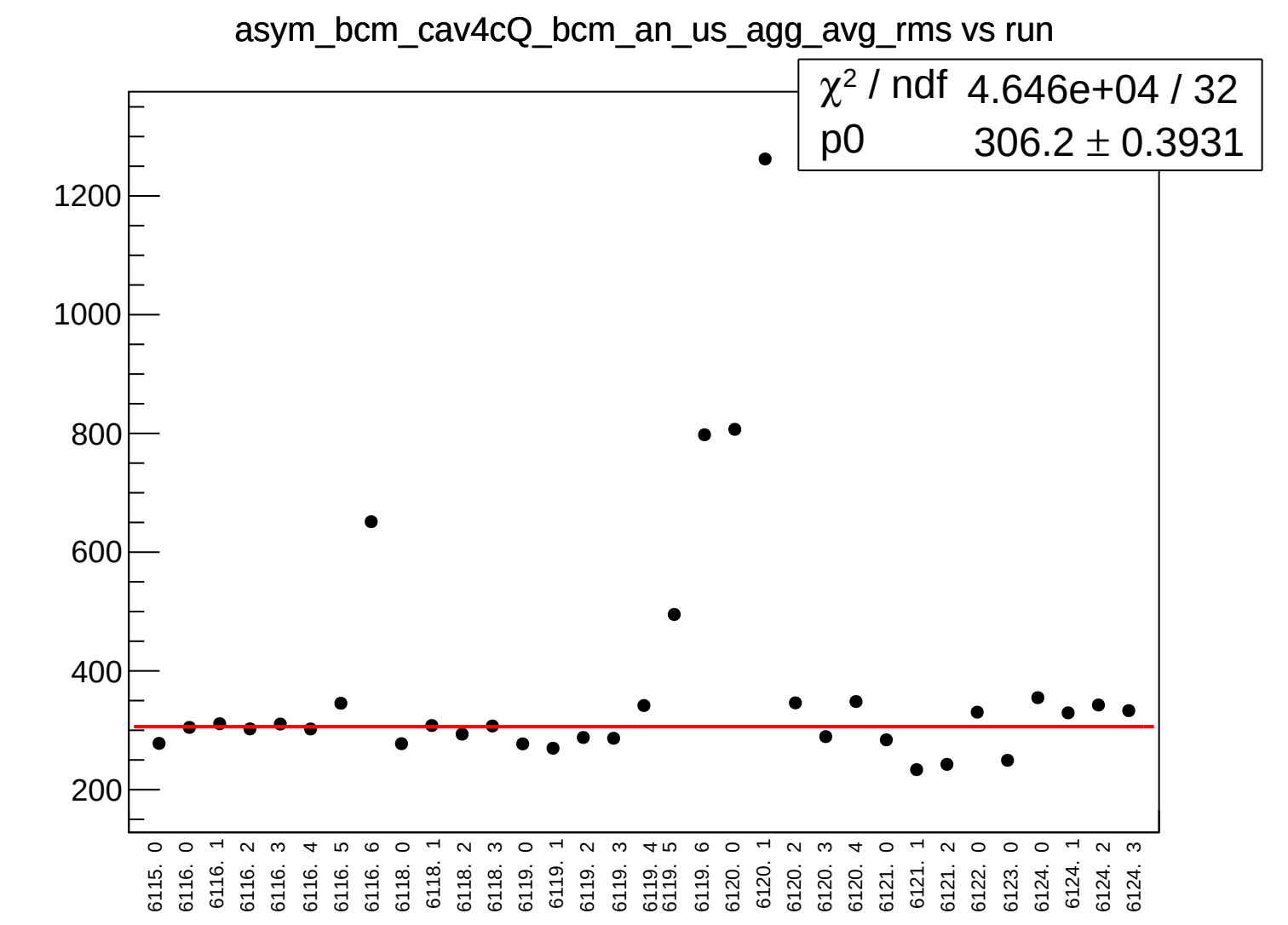
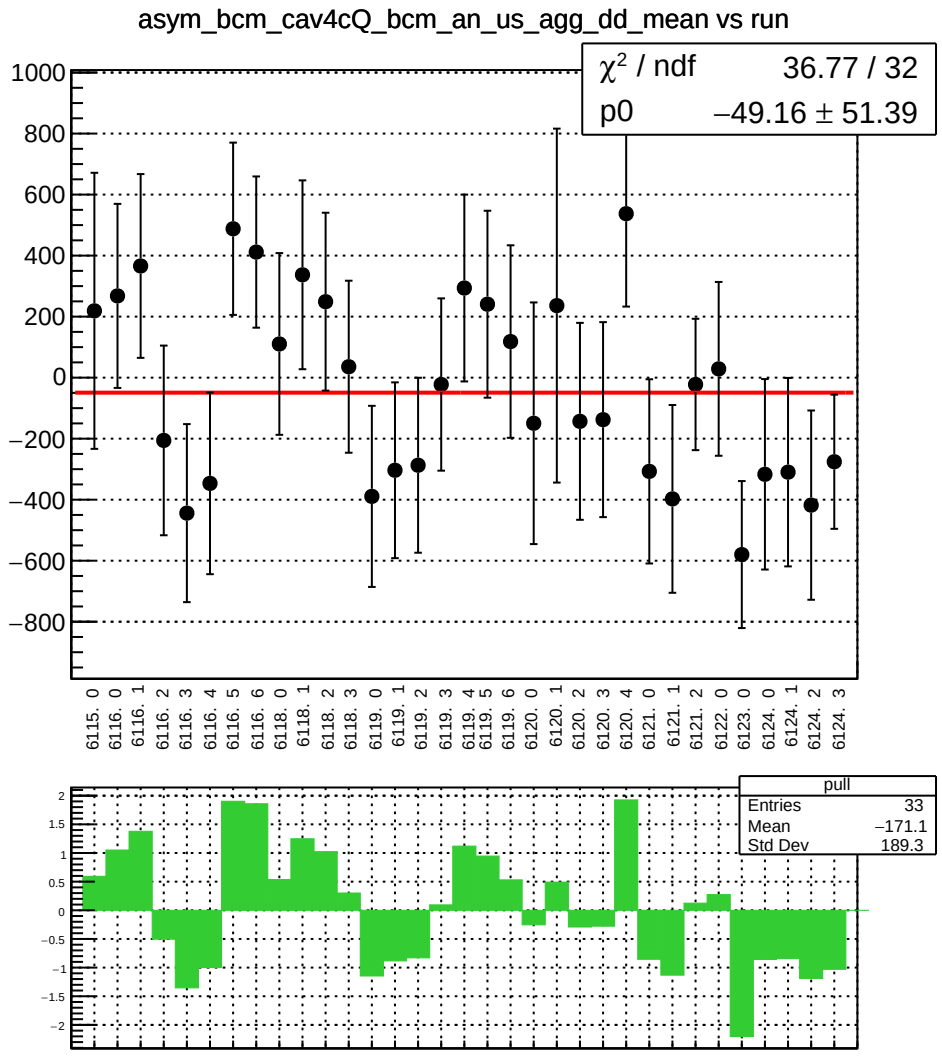
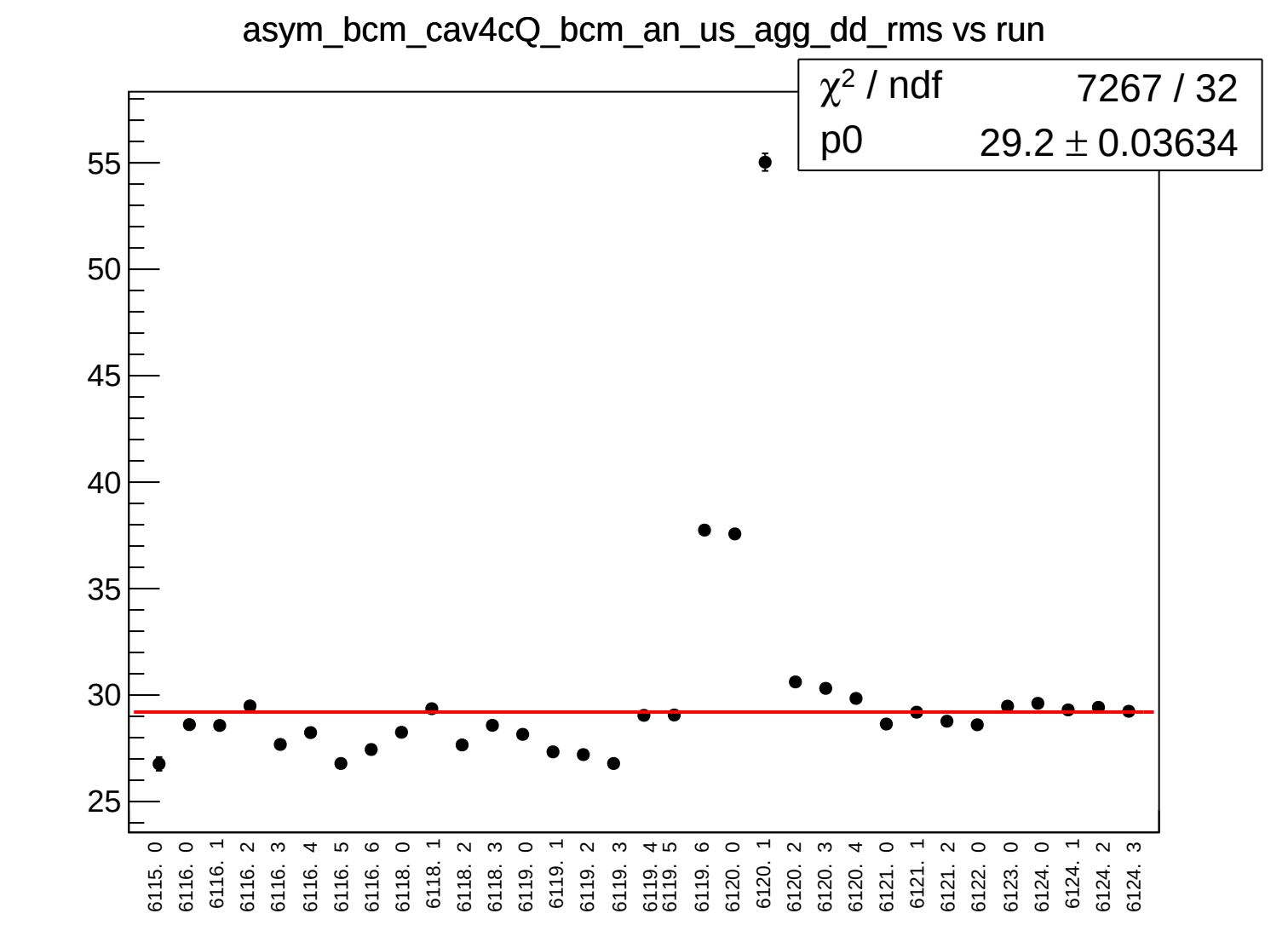
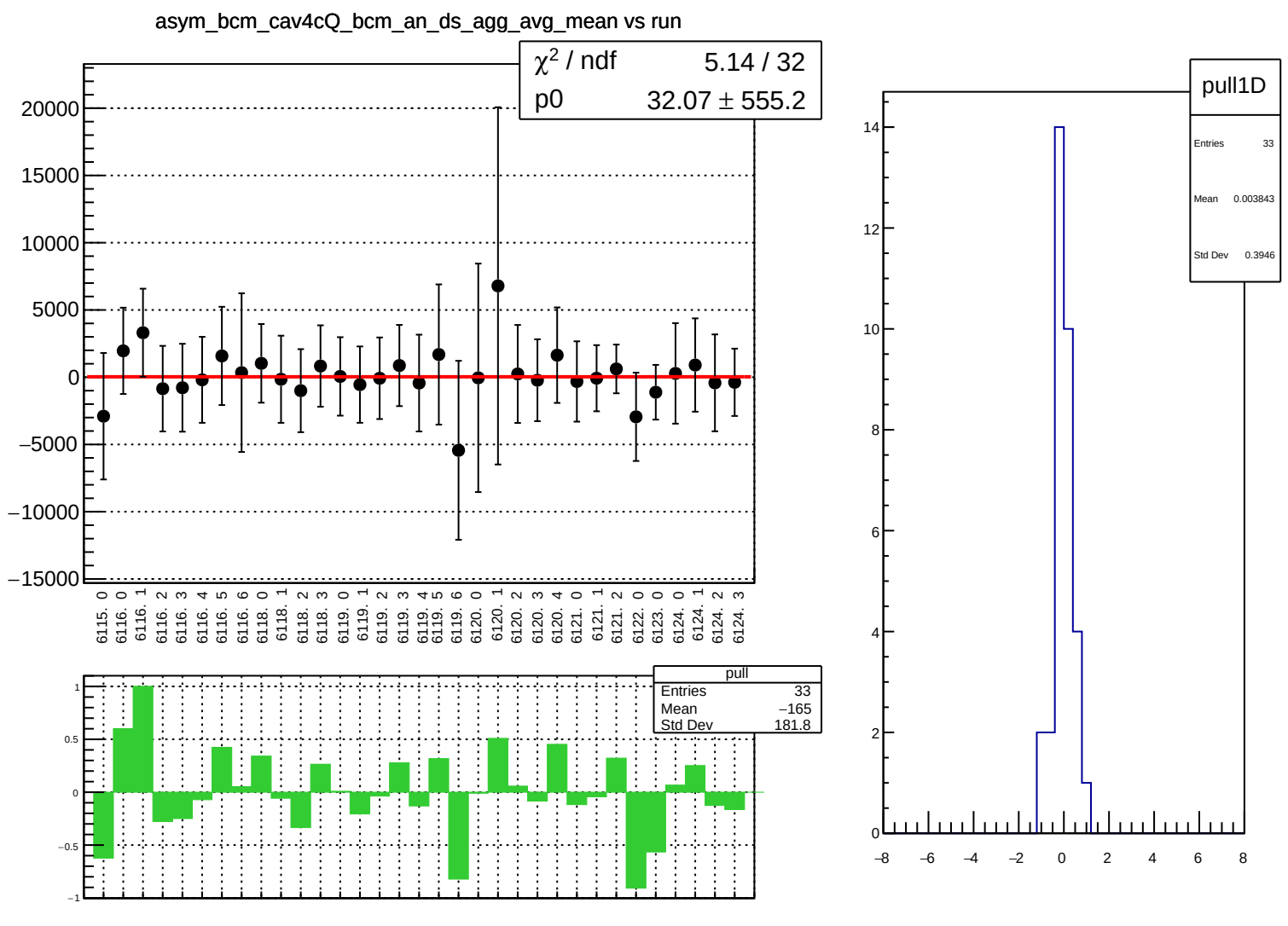
6124. 2
6124. 3

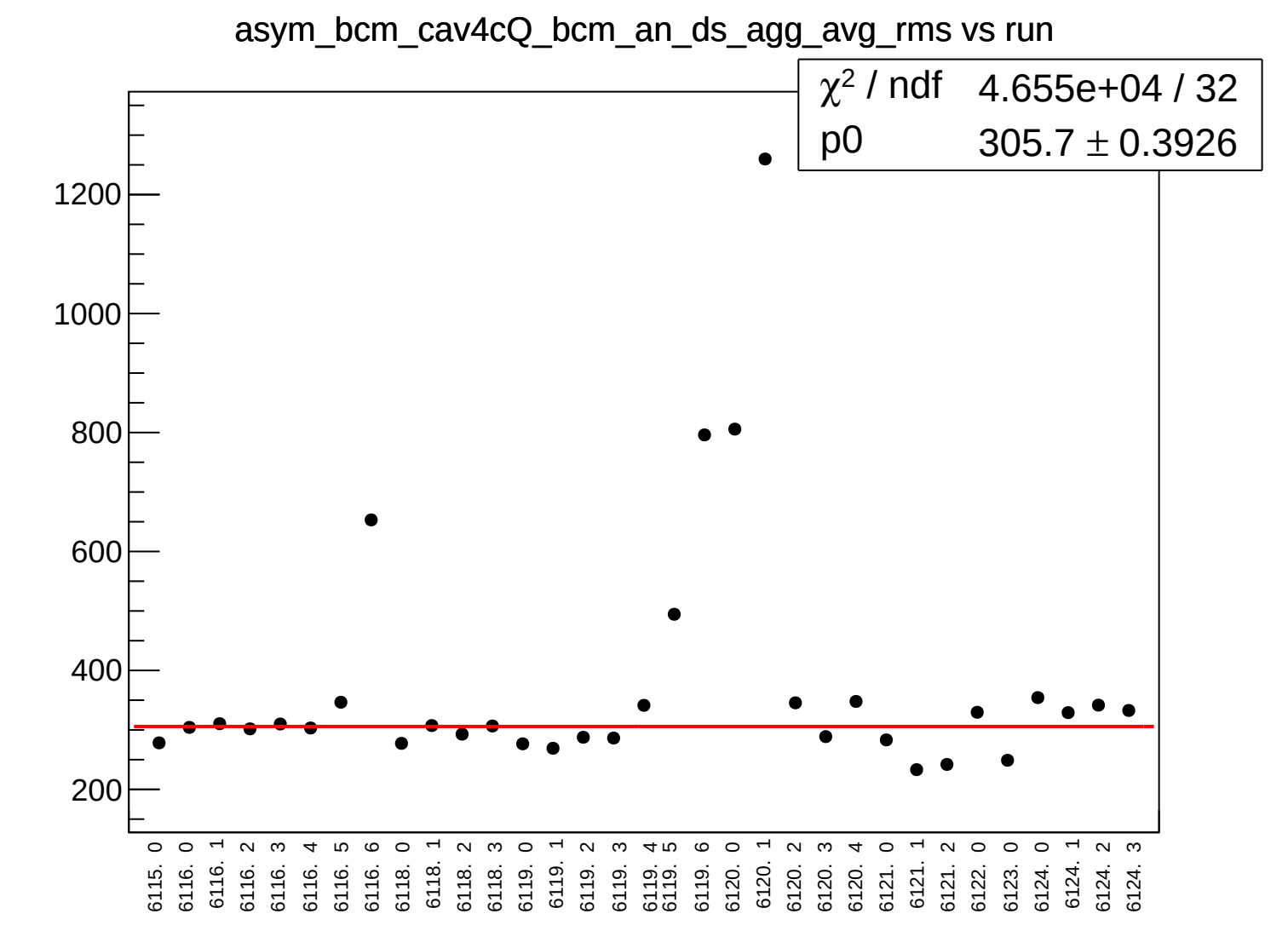

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.052 / 32
p0 32.56 ± 556
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −156.3
Std Dev 173.3
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.003791
Std Dev 0.3913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

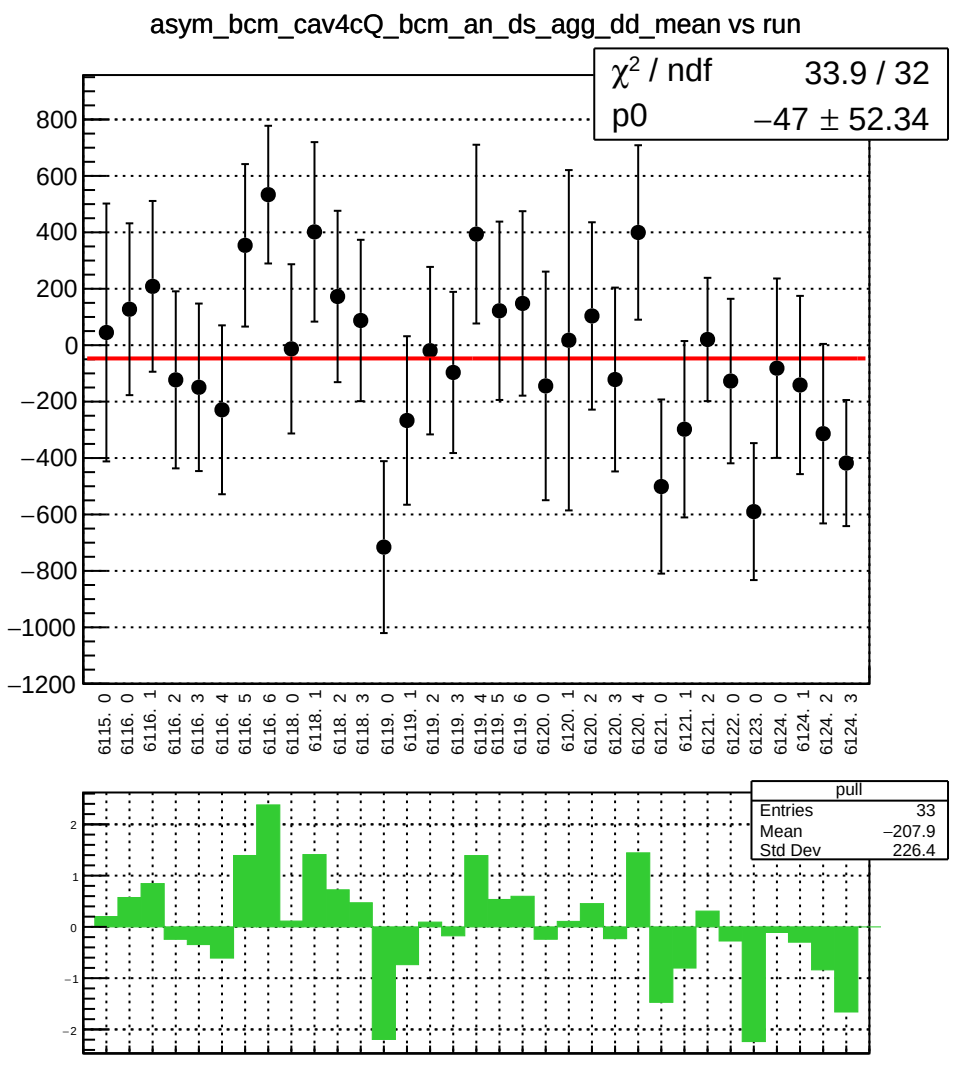

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.646e+04 / 32
p0 306.2 ± 0.3931
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

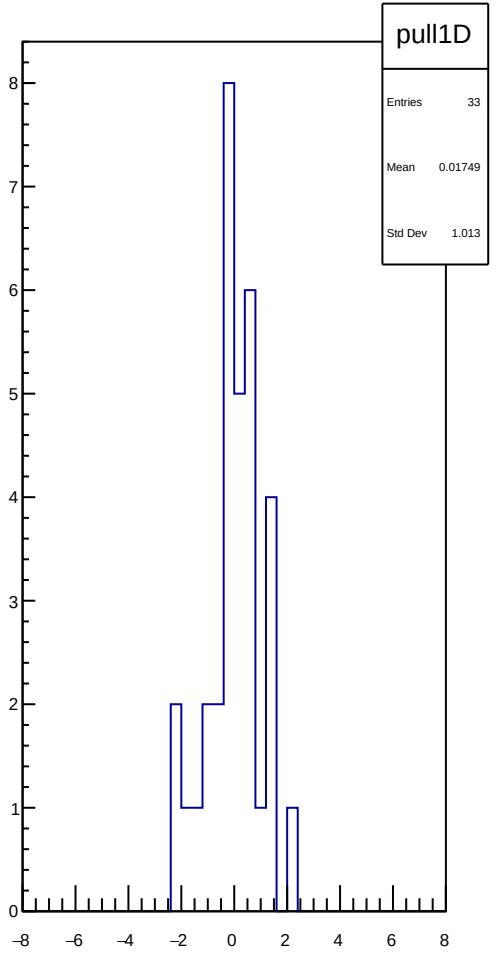

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 36.77 / 32
p0 −49.16 ± 51.39
1000
800
600
400
200
0
−200
−400
−600
−800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −171.1
Std Dev 189.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02282
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

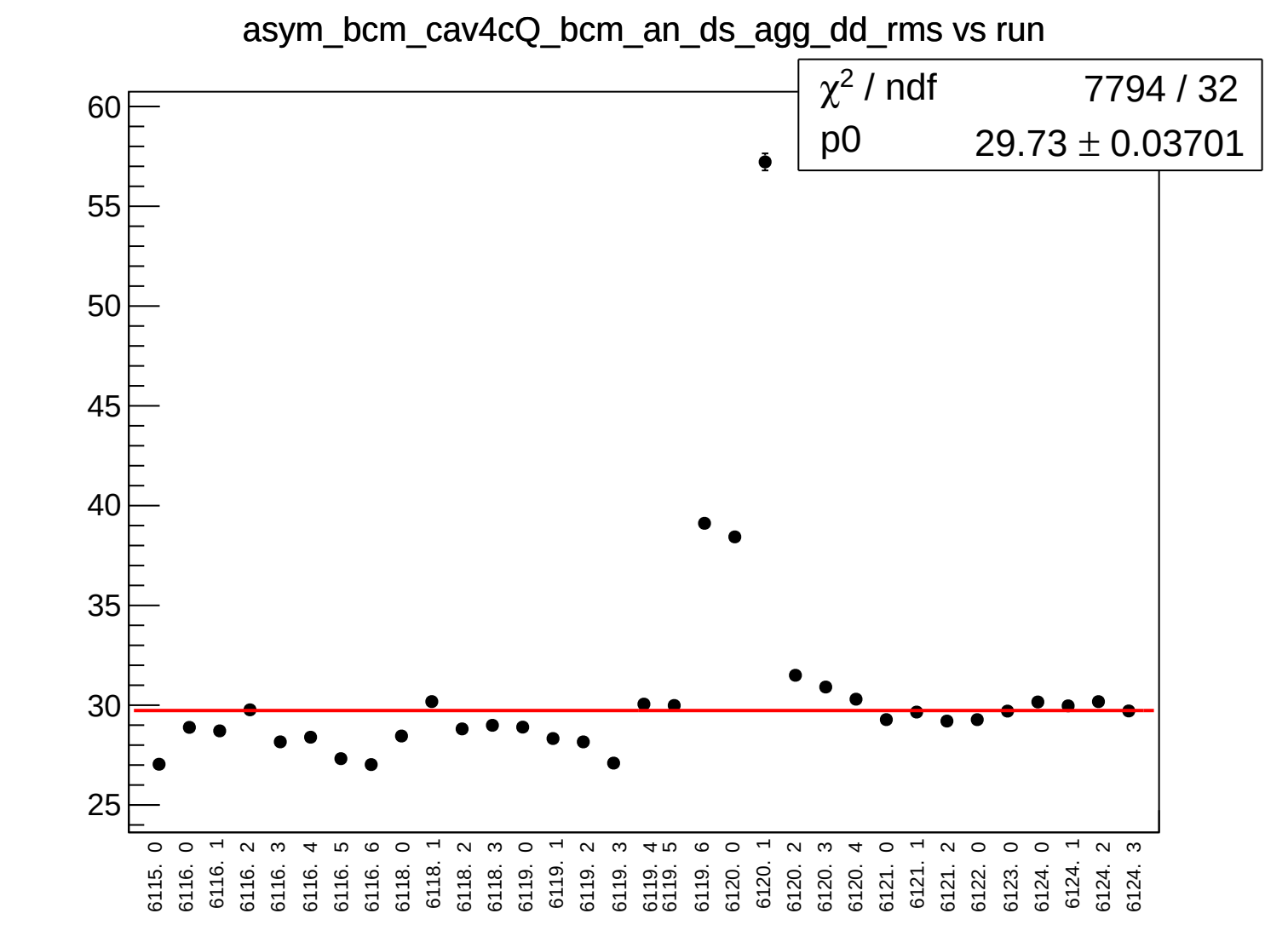

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7267 / 32
p0 29.2 ± 0.03634
55
50
45
40
35
30
25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.14 / 32
p0 32.07 ± 555.2
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −165
Std Dev 181.8
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.003843
Std Dev 0.3946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.655e+04 / 32
p0 305.7 ± 0.3926
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 33.9 / 32
p0 −47 ± 52.34
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −207.9
Std Dev 226.4
2
1
0
−1
−2


pull1D
Entries 33
Mean 0.01749
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7794 / 32
p0 29.73 ± 0.03701
60
55
50
45
40
35
30
25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
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6121. 1
6121. 2
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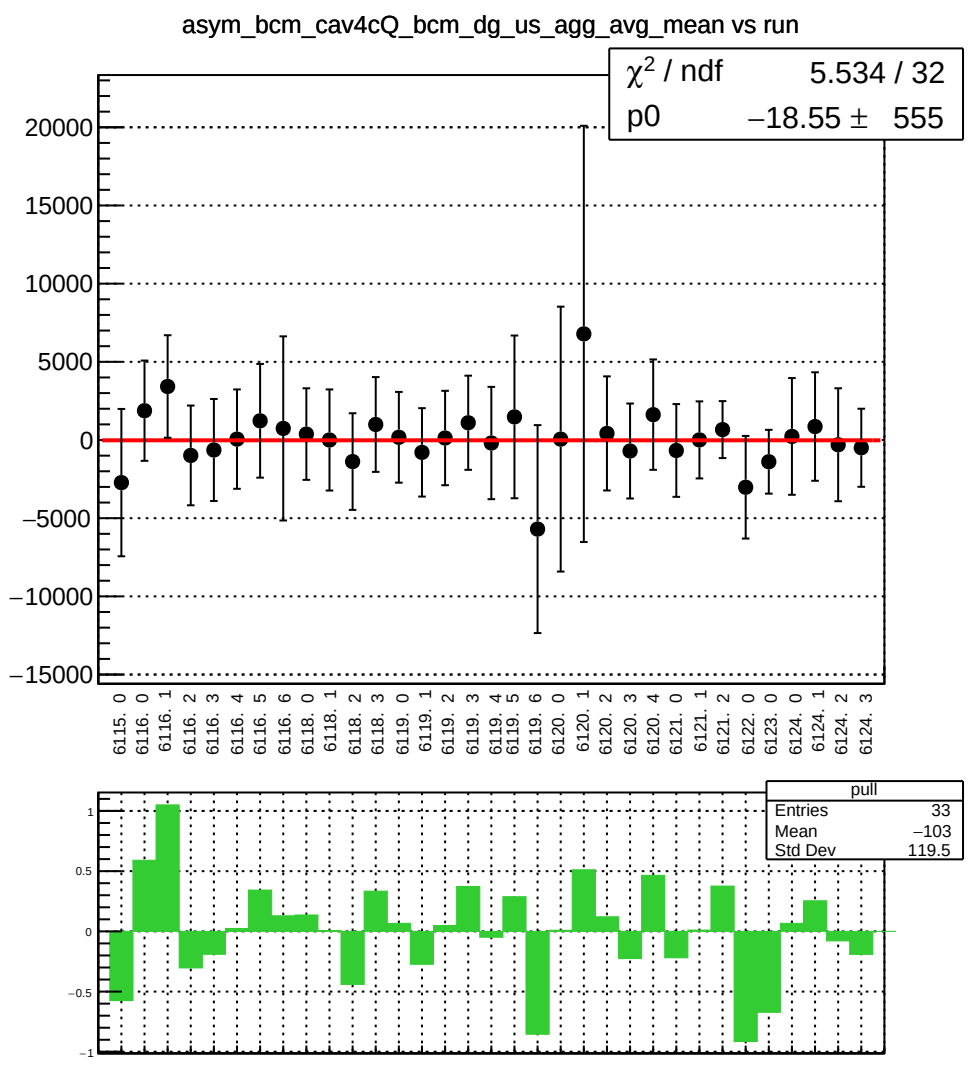
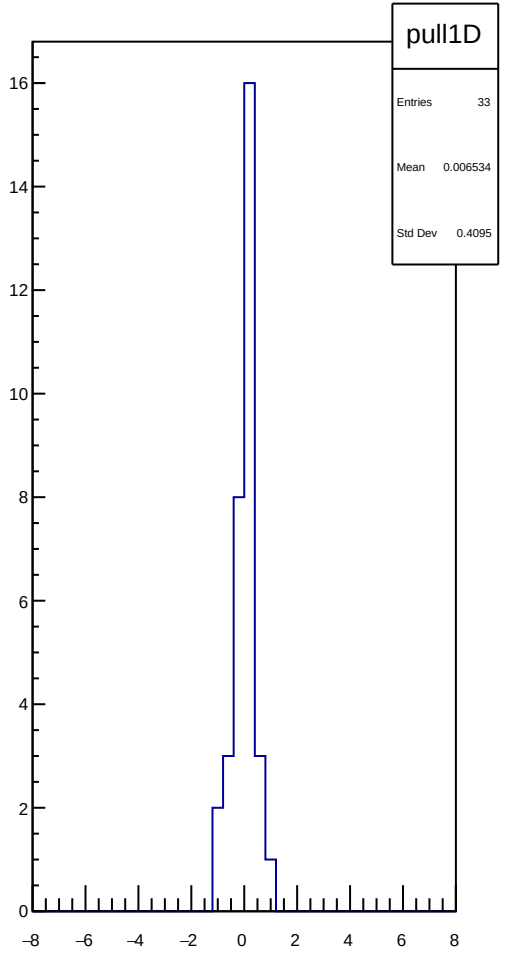
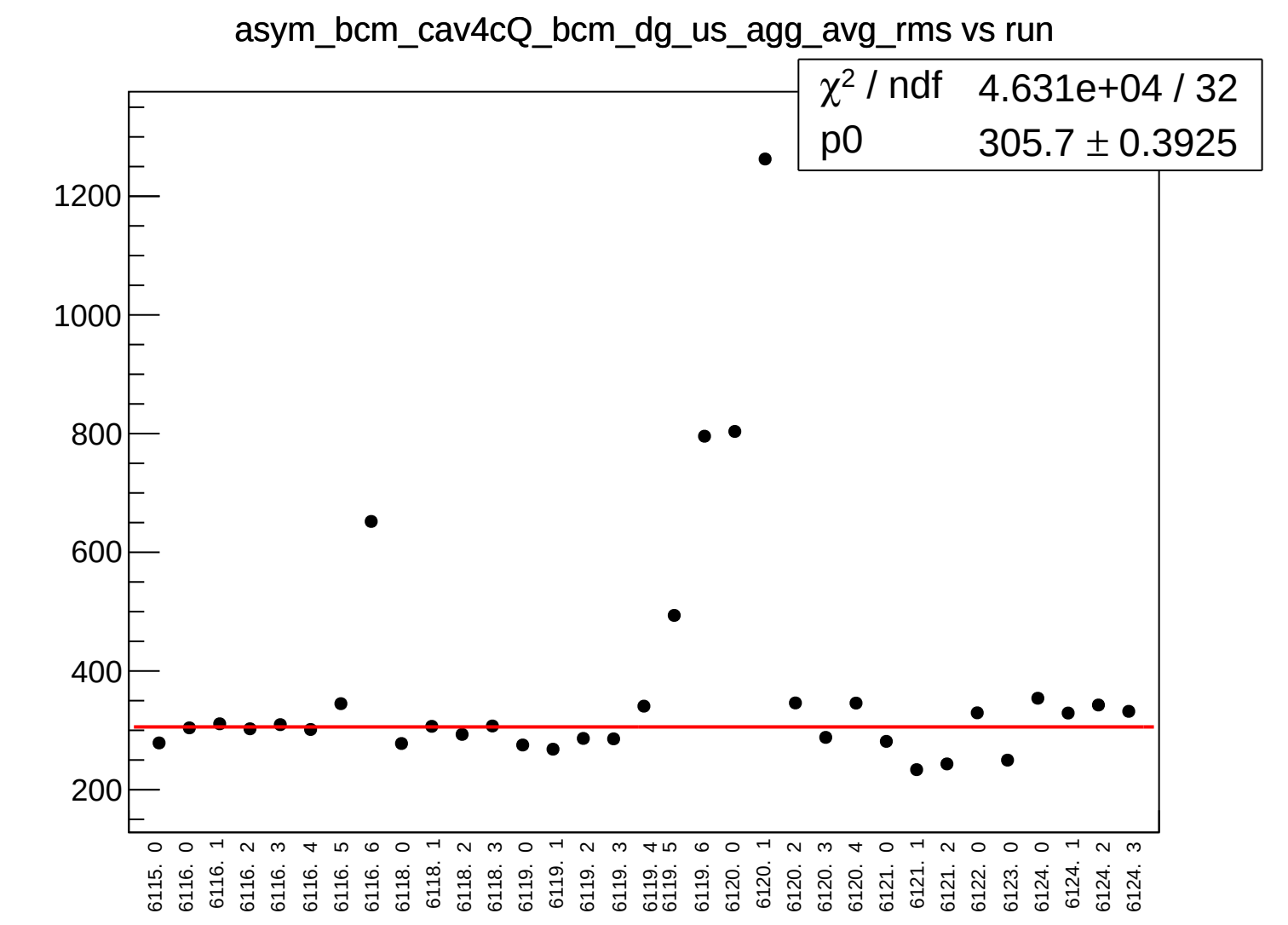
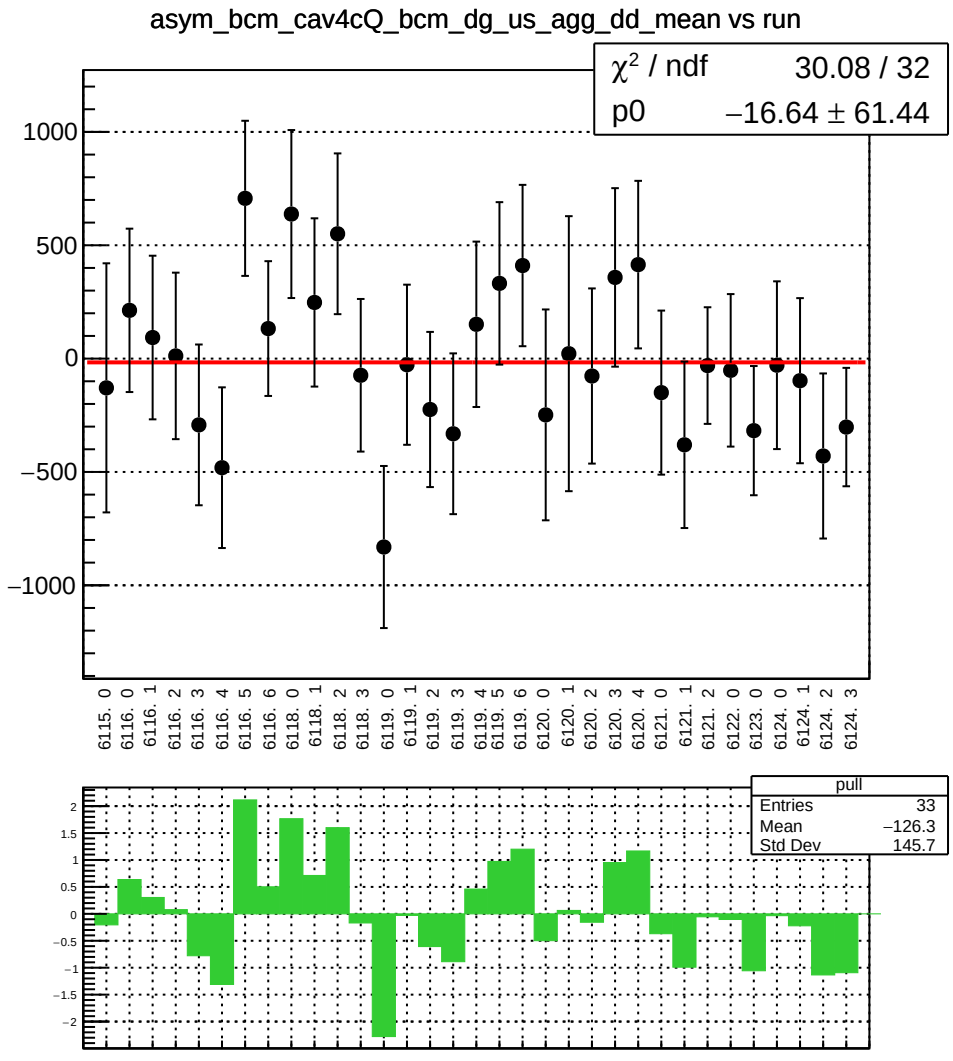
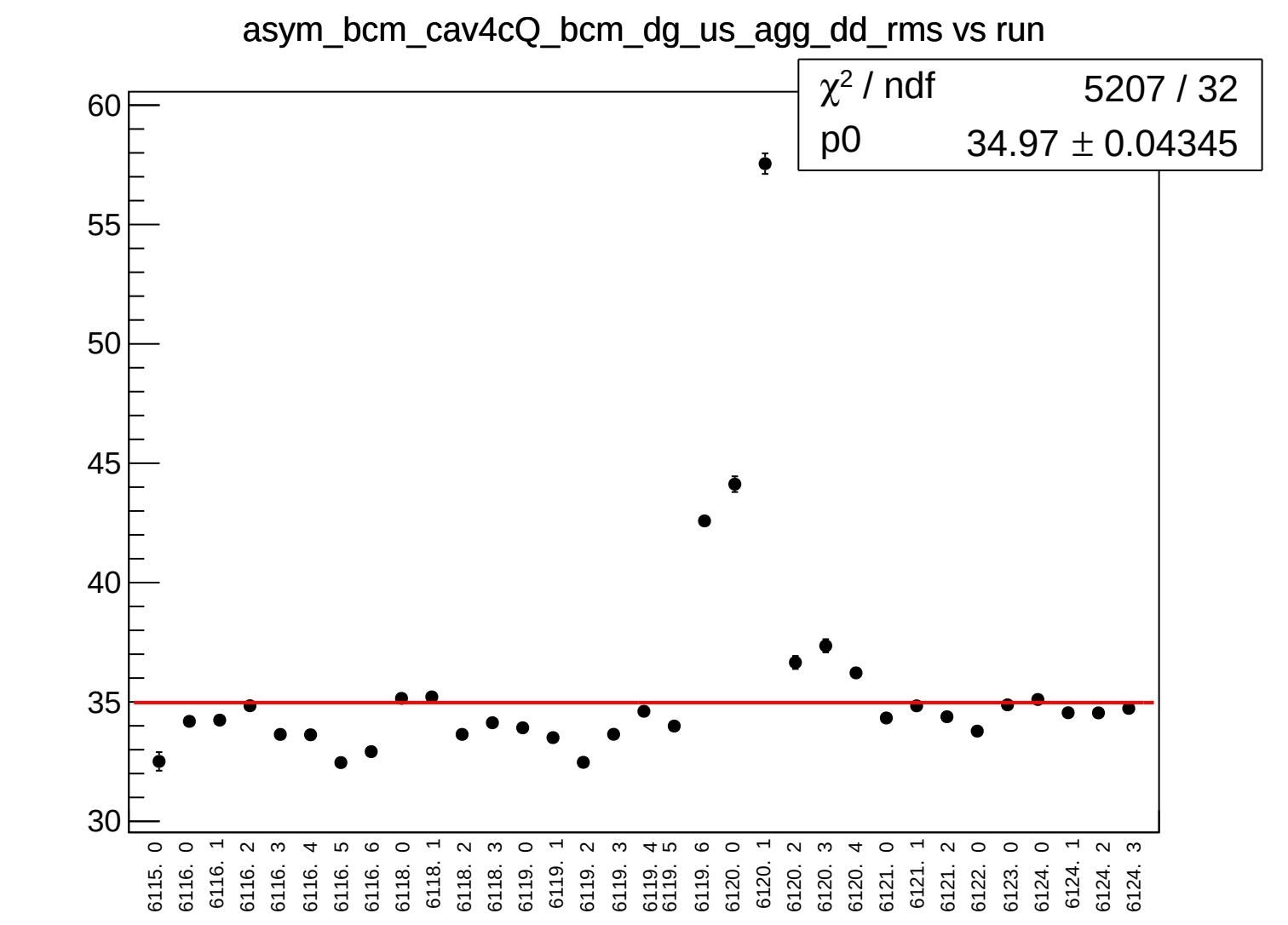
6124. 0
6124. 1
6124. 2
6124. 3

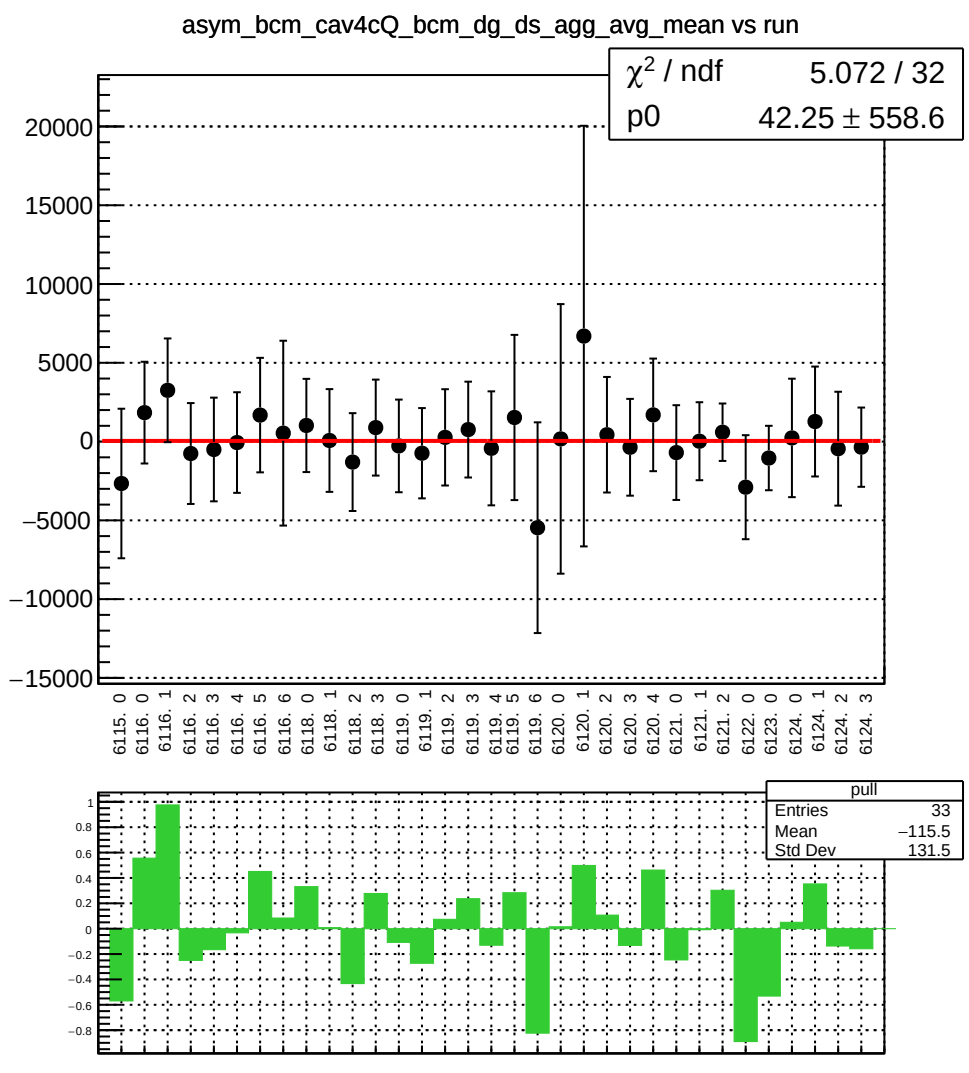

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 5.534 / 32
p0 −18.55 ± 555
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −103
Std Dev 119.5
1
0.5
0
−0.5
−1

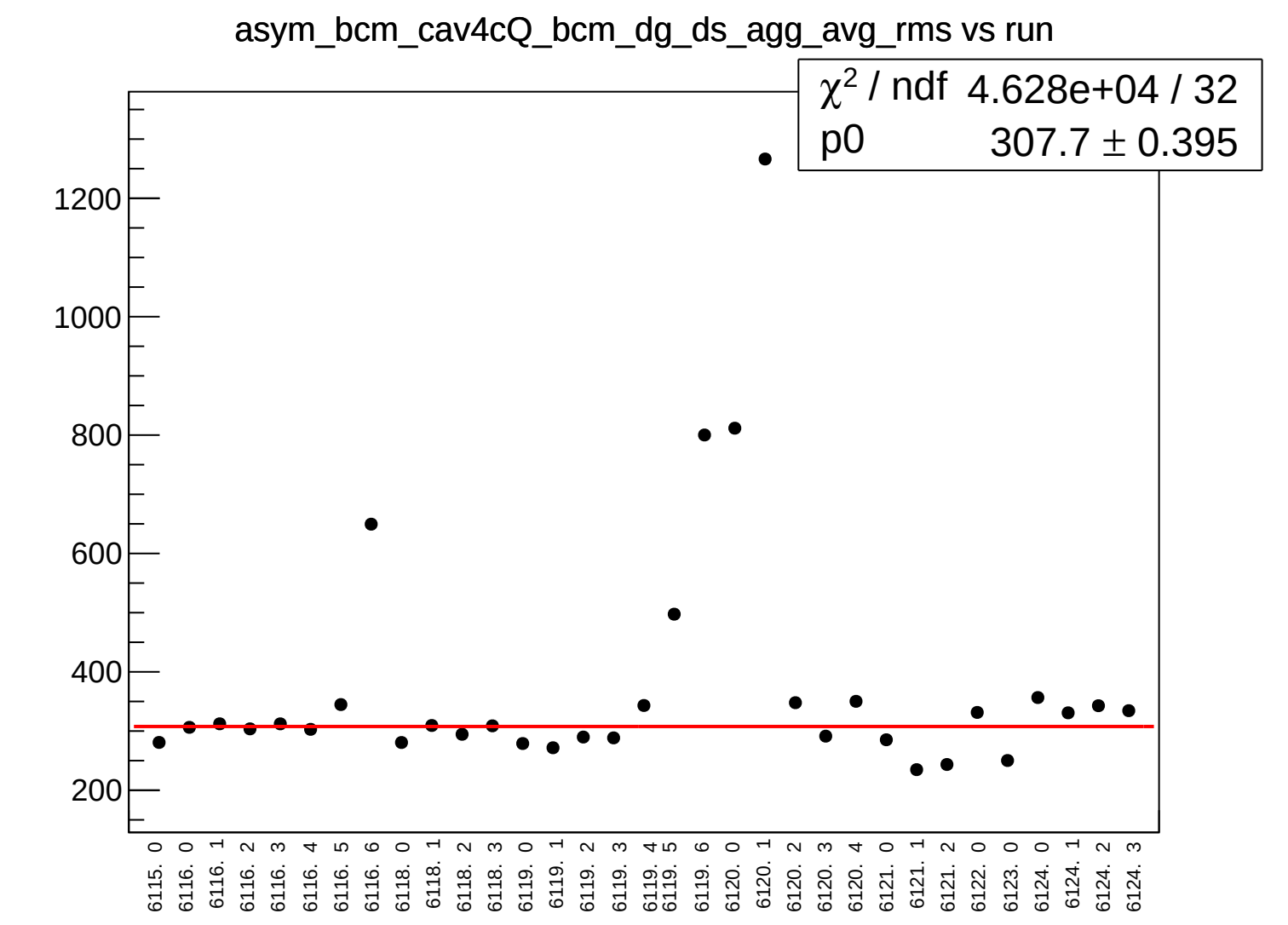

pull1D
Entries 33
Mean 0.006534
Std Dev 0.4095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

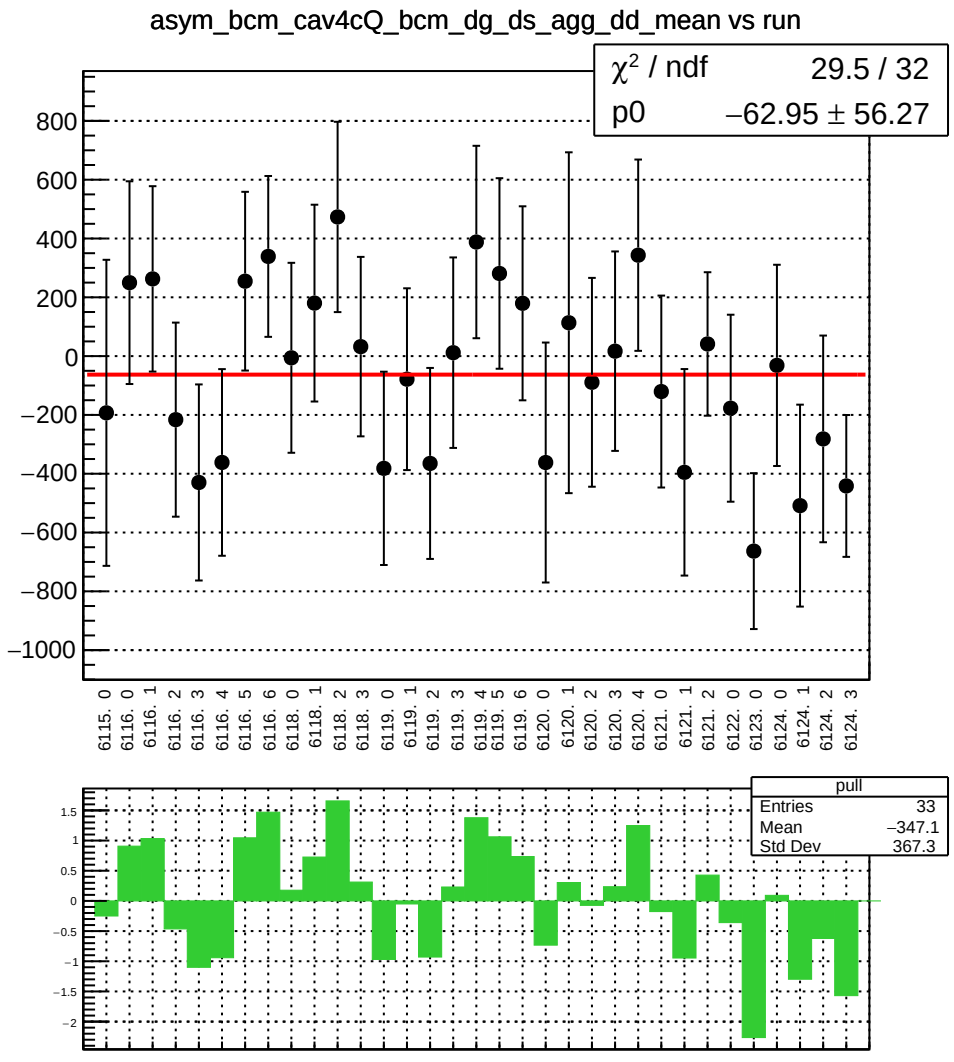

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.631e+04 / 32
p0 305.7 ± 0.3925
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

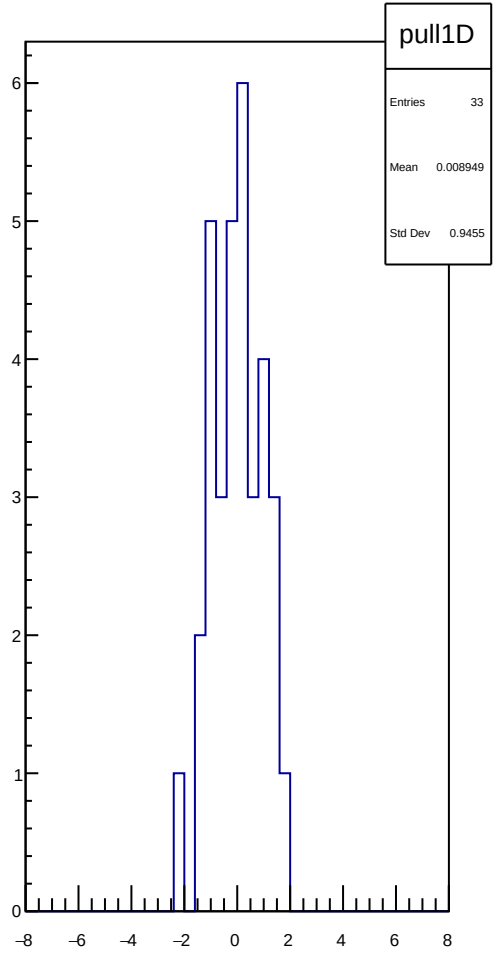

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 30.08 / 32
p0 −16.64 ± 61.44
1000
500
0
−500
−1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −126.3
Std Dev 145.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01678
Std Dev 0.9545
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

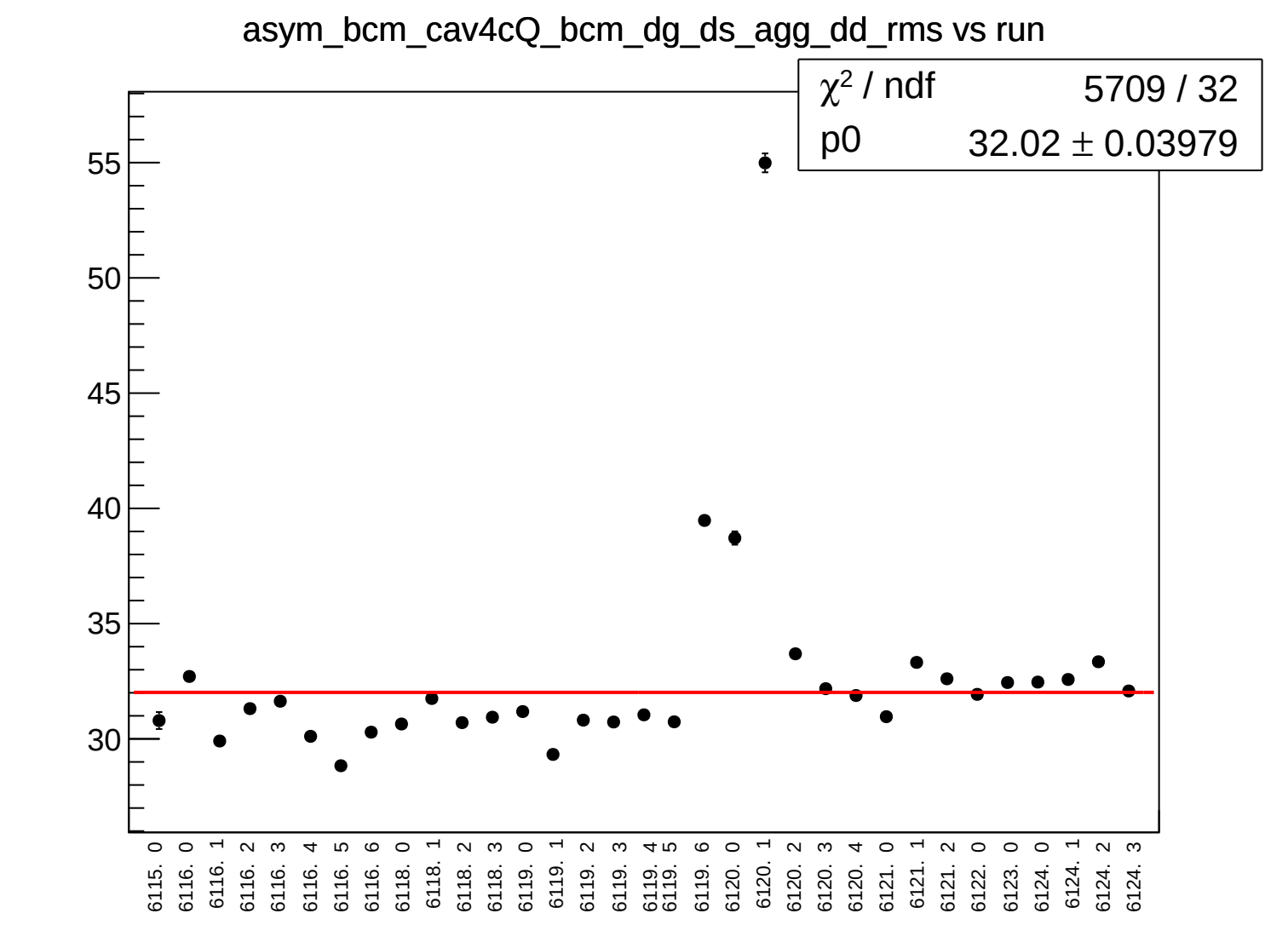

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 5207 / 32
p0 34.97 ± 0.04345
60
55
50
45
40
35
30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

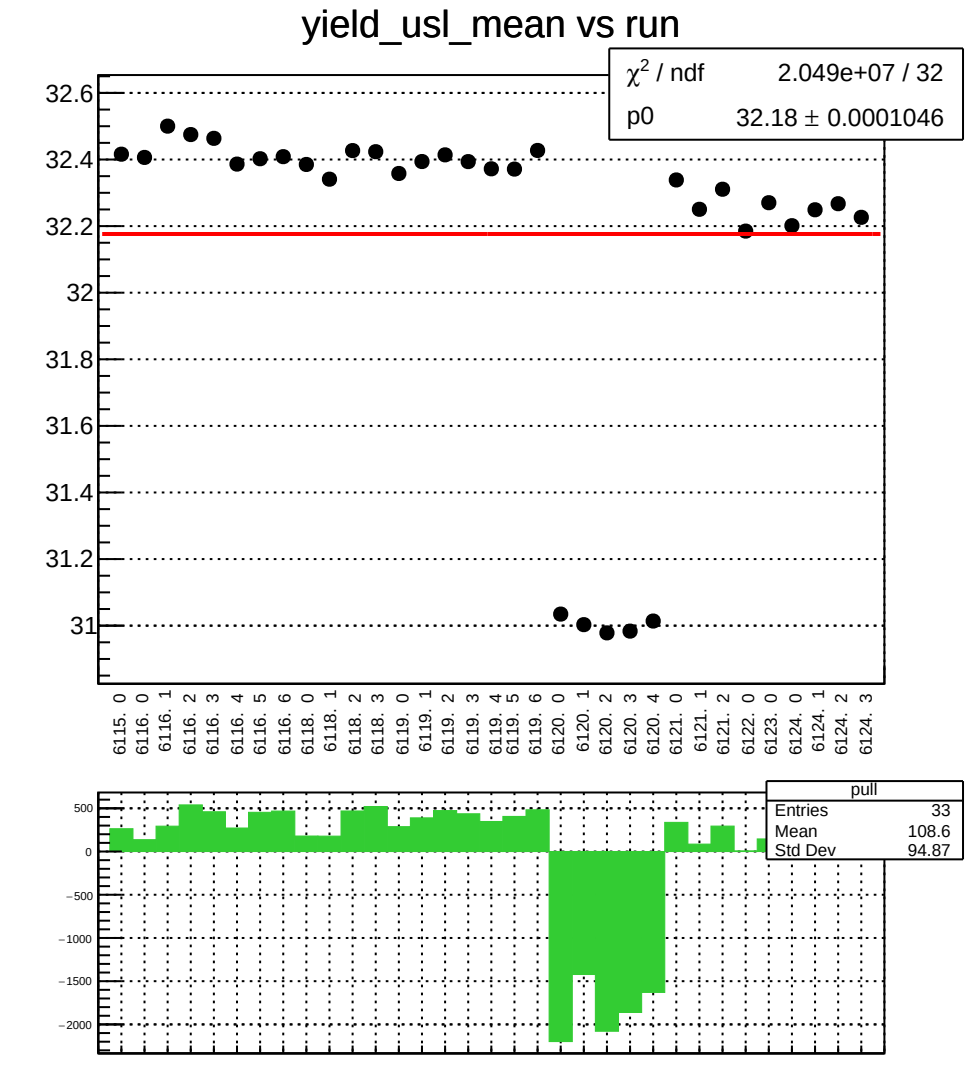

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 5.072 / 32
p0 42.25 ± 558.6
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −115.5
Std Dev 131.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.00544
Std Dev 0.392
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

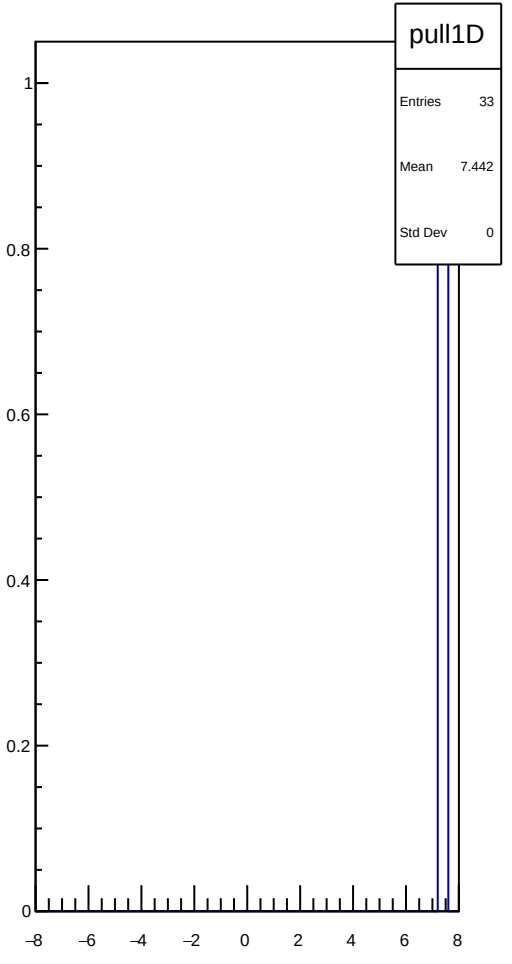

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.628e+04 / 32
p0 307.7 ± 0.395
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

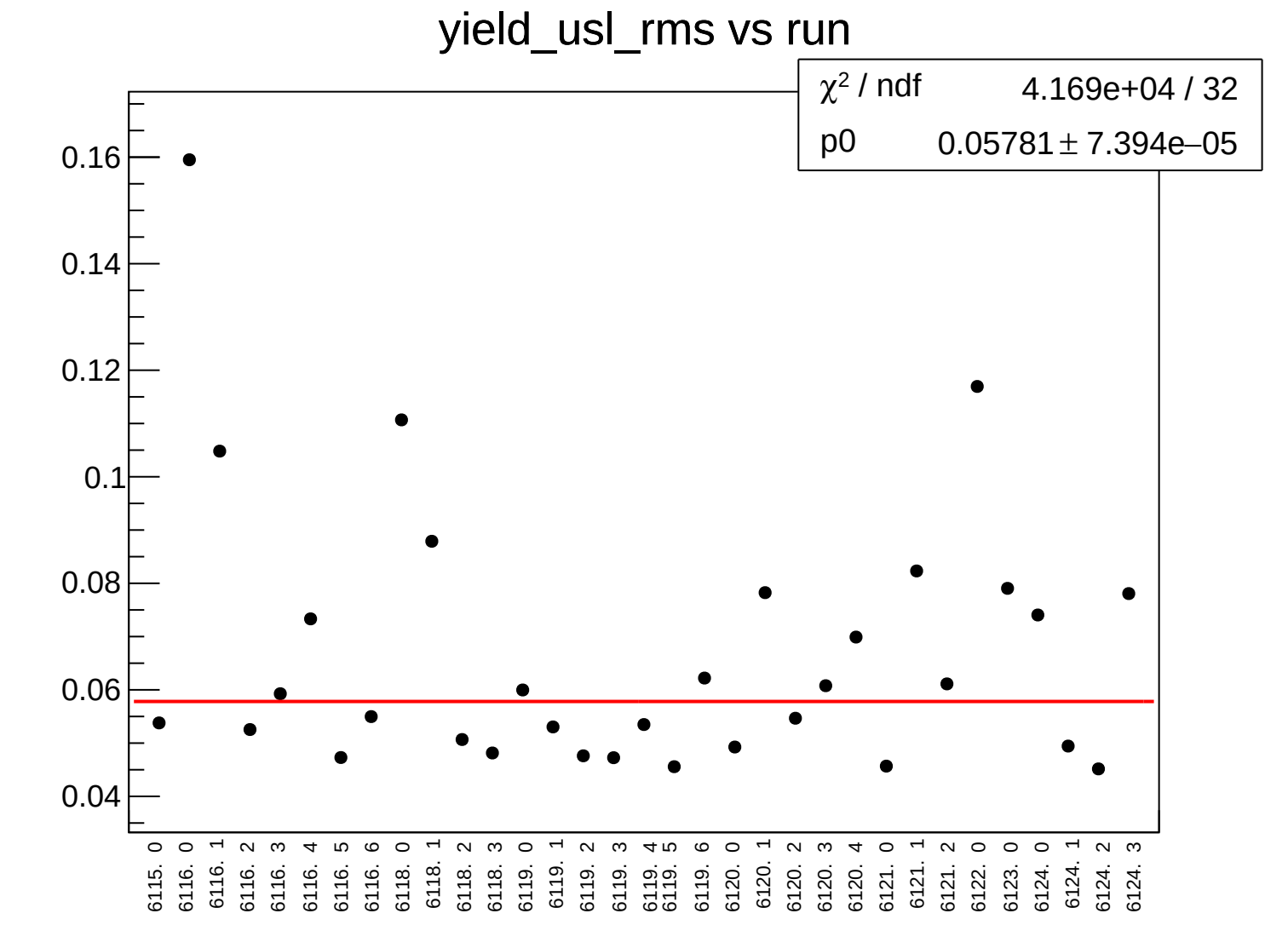

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 29.5 / 32
p0 −62.95 ± 56.27
800
600
400
200
0
−200
−400
−600
−800
−1000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −347.1
Std Dev 367.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

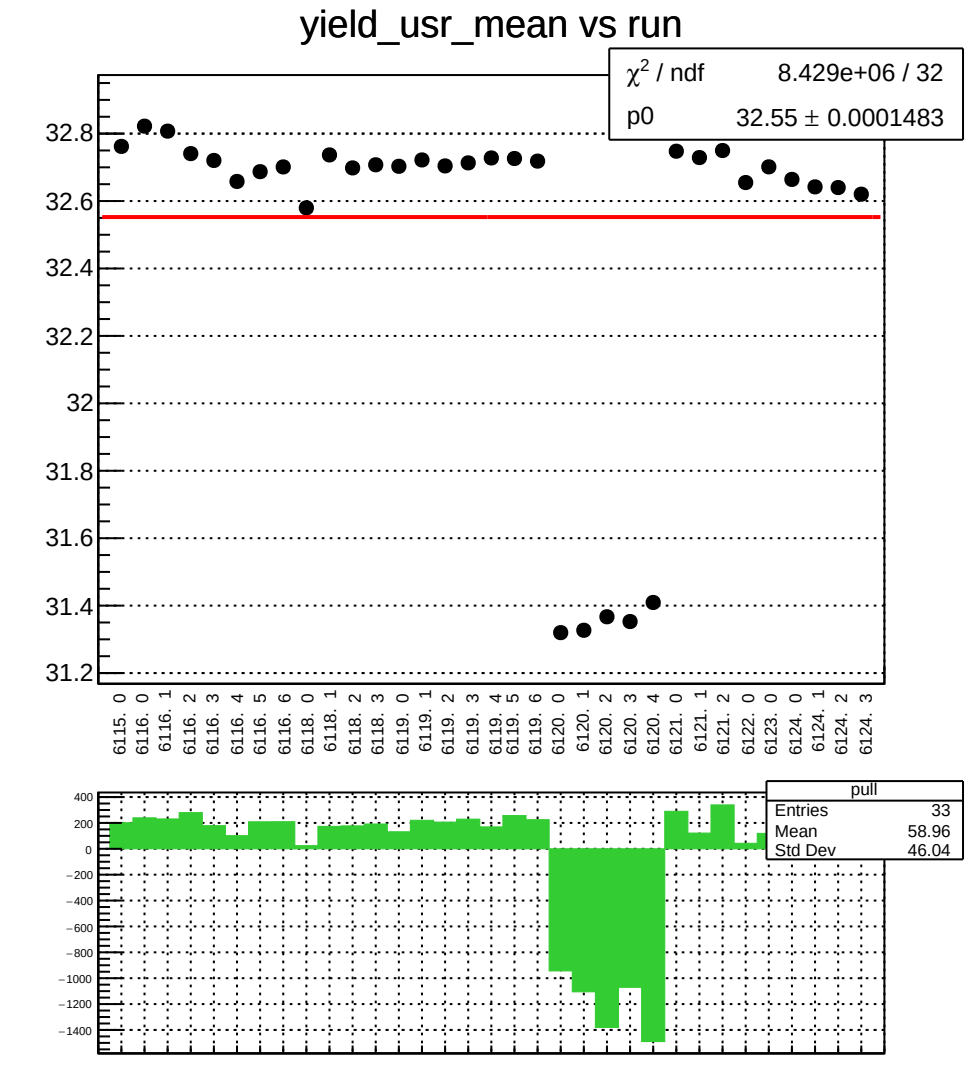

pull1D
Entries 33
Mean 0.008949
Std Dev 0.9455
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

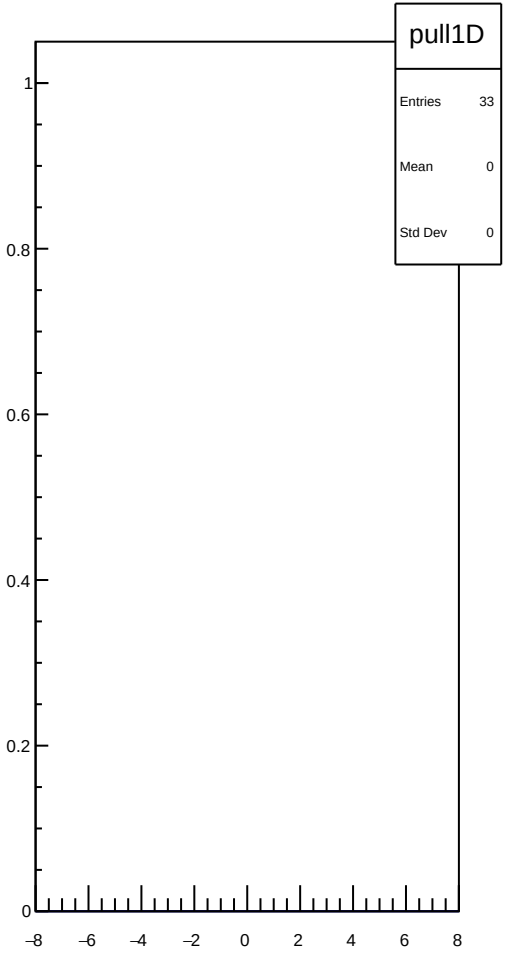

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5709 / 32
p0 32.02 ± 0.03979
55
50
45
40
35
30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

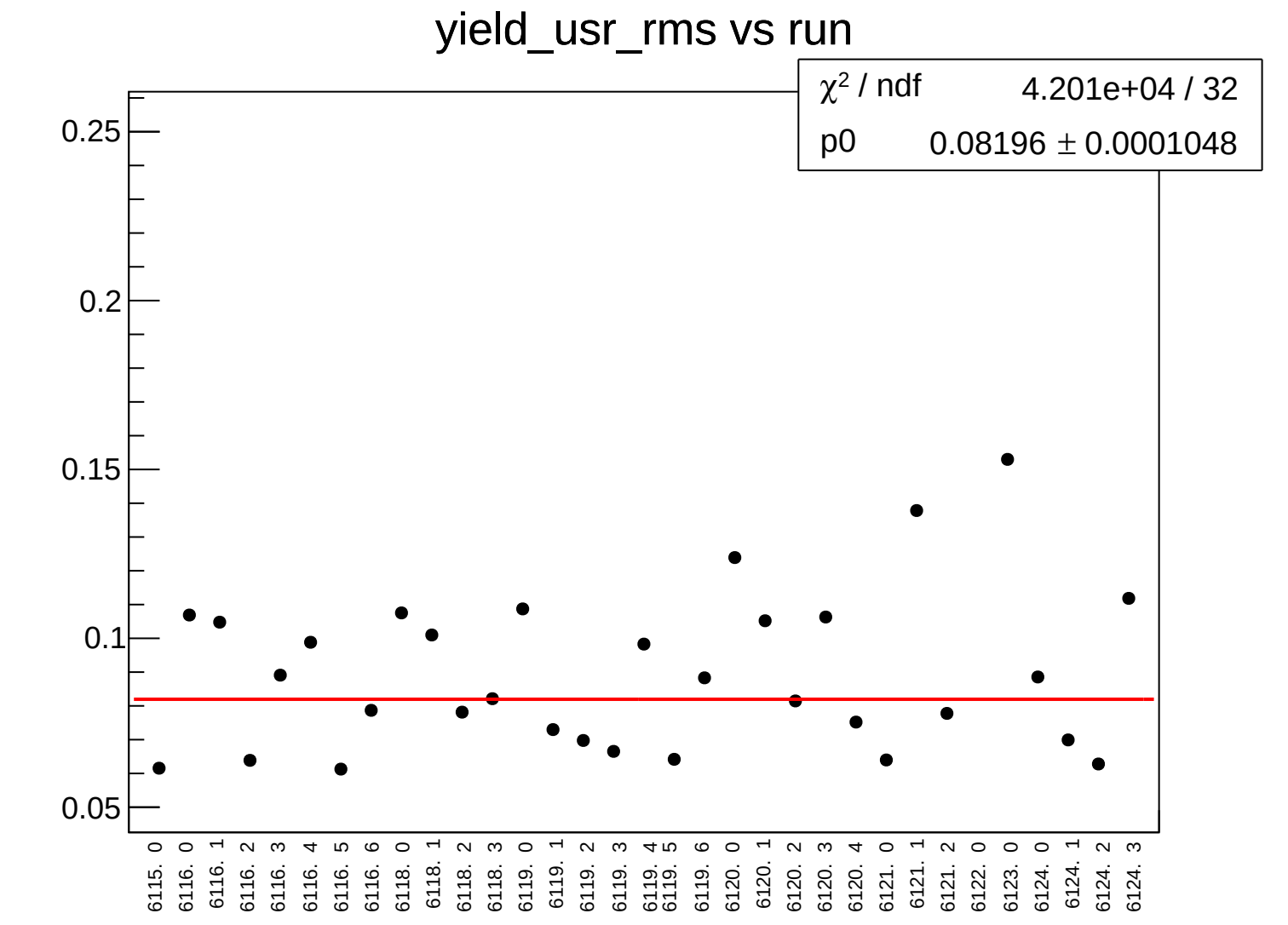

yield_usl_mean vs run
χ² / ndf 2.049e+07 / 32
p0 32.18 ± 0.0001046
32.6
32.4
32.2
32
31.8
31.6
31.4
31.2
31
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 108.6
Std Dev 94.87
500
0
−500
−1000
−1500
−2000

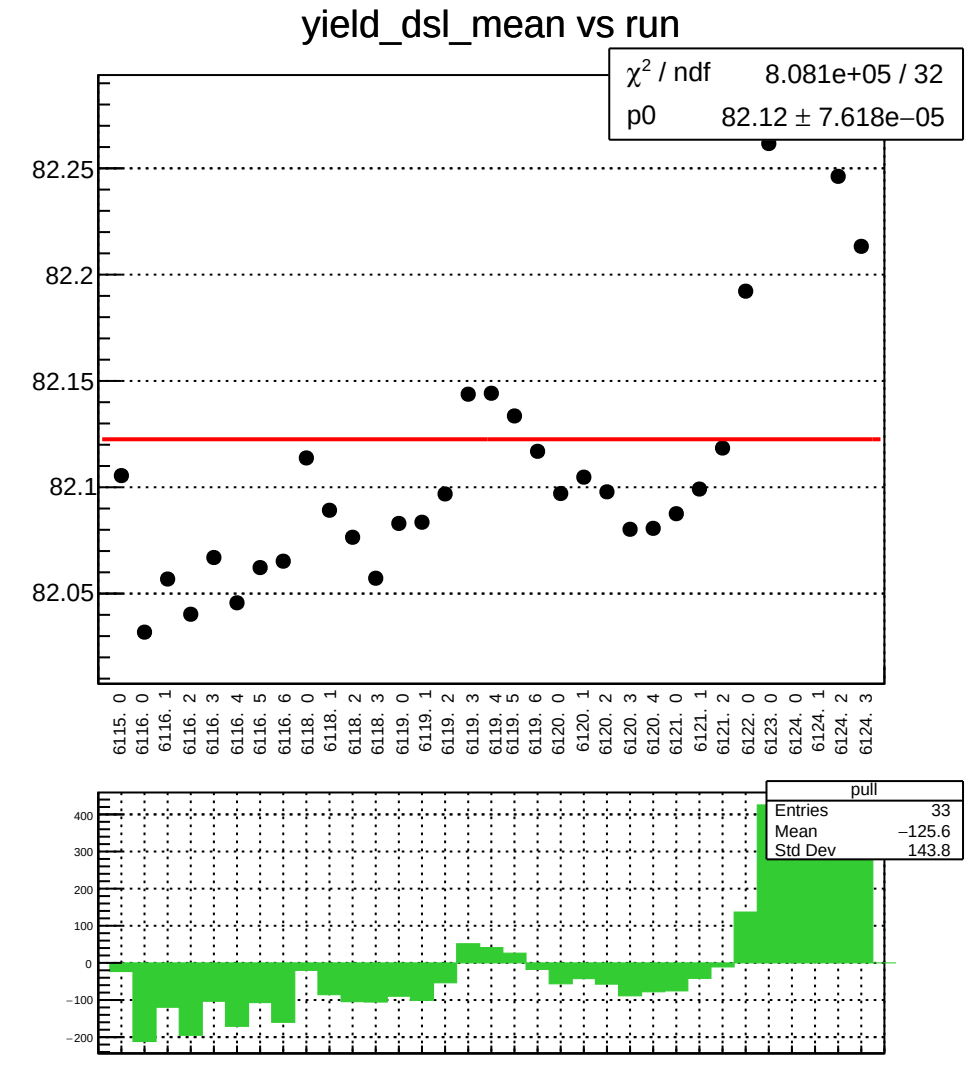

pull1D
Entries 33
Mean 7.442
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

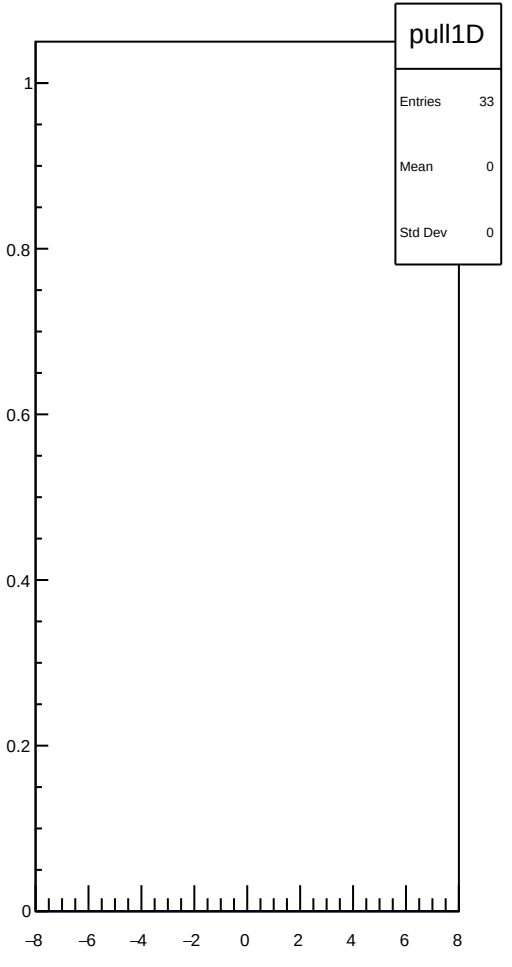

yield_usl_rms vs run
χ² / ndf 4.169e+04 / 32
p0 0.05781 ± 7.394e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

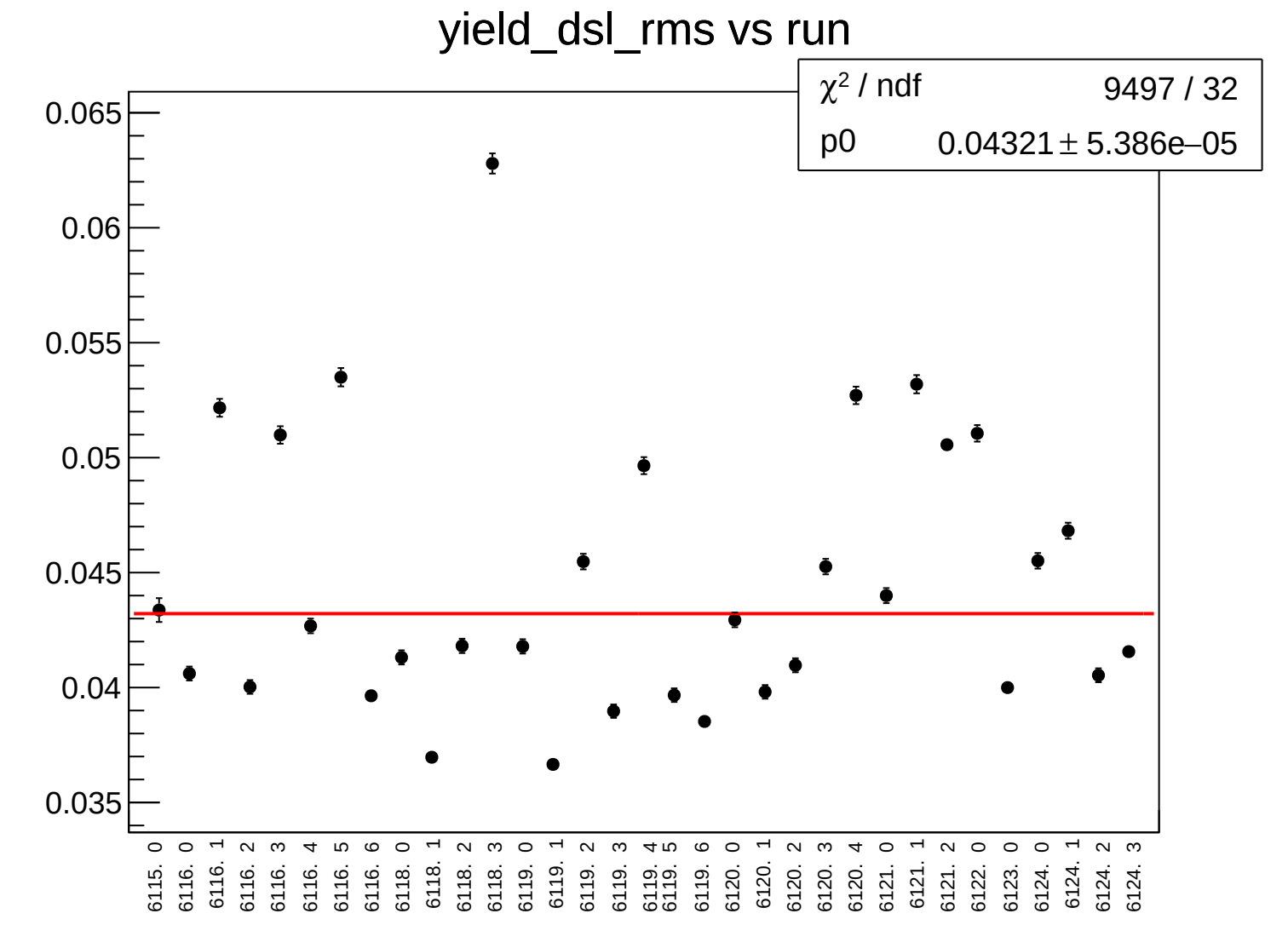

yield_usr_mean vs run
χ² / ndf 8.429e+06 / 32
p0 32.55 ± 0.0001483
32.8
32.6
32.4
32.2
32
31.8
31.6
31.4
31.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 58.96
Std Dev 46.04
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

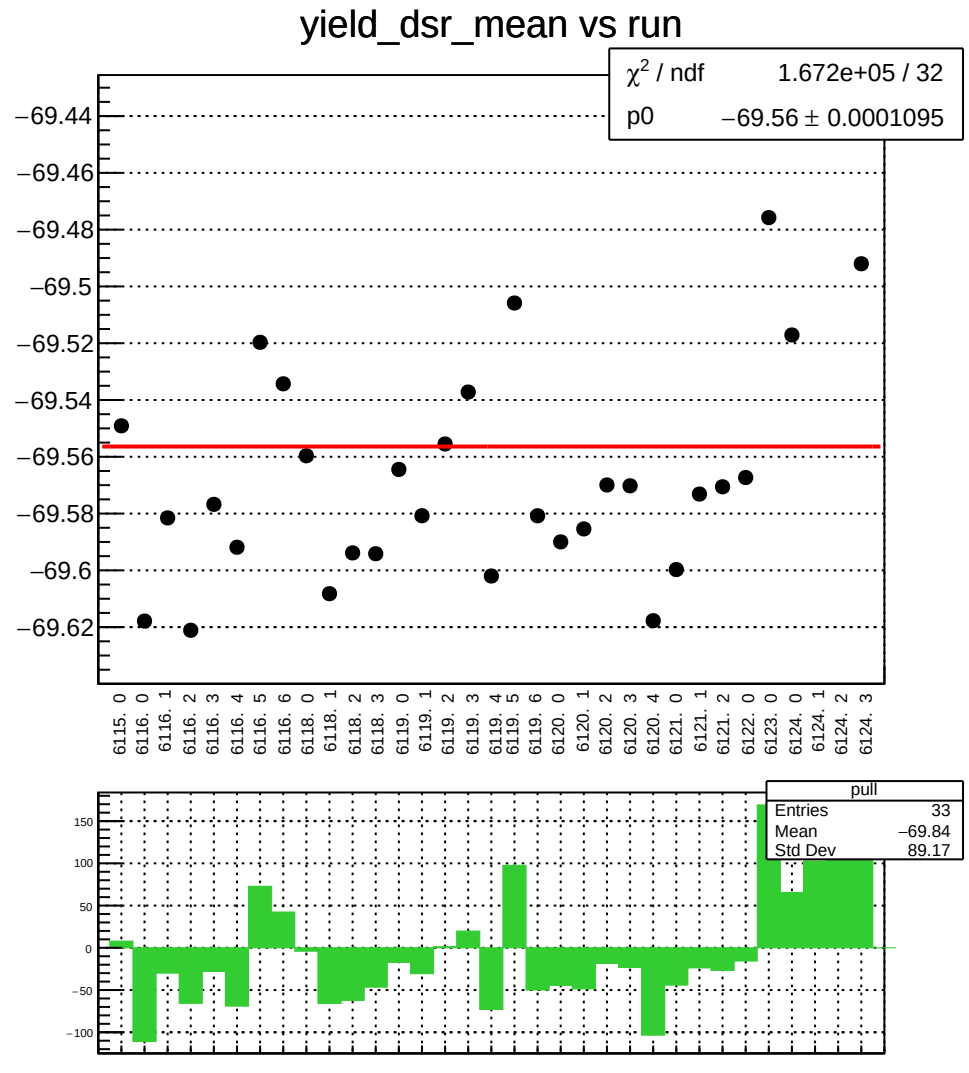

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

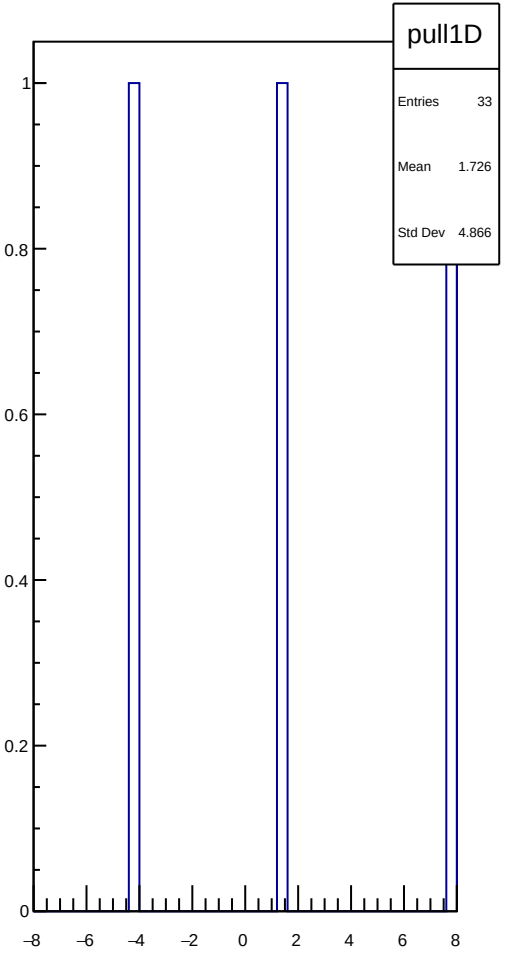

yield_usr_rms vs run
χ² / ndf 4.201e+04 / 32
p0 0.08196 ± 0.0001048
0.25
0.2
0.15
0.1
0.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

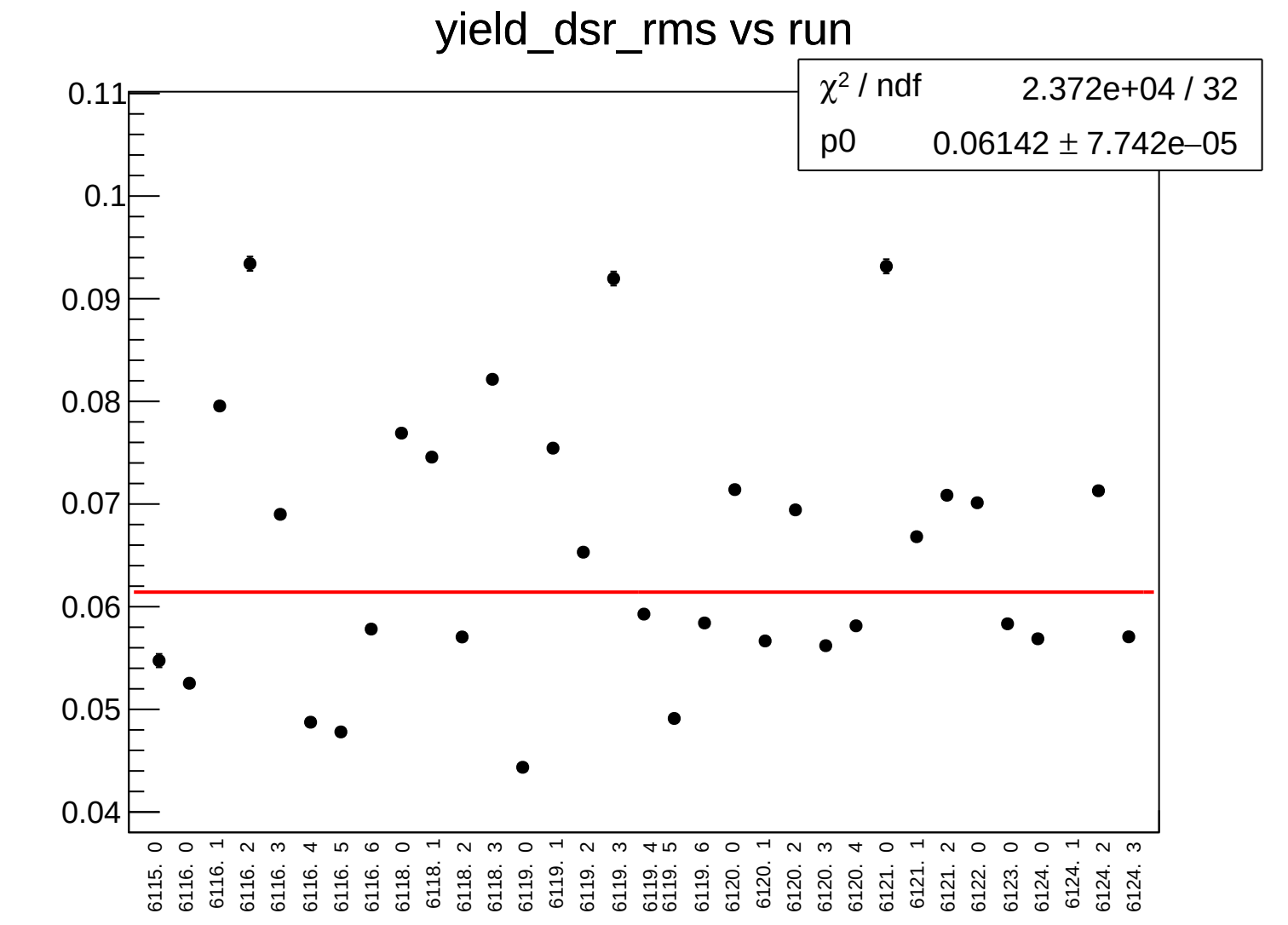

yield_dsl_mean vs run
χ² / ndf 8.081e+05 / 32
p0 82.12 ± 7.618e−05
82.25
82.2
82.15
82.1
82.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −125.6
Std Dev 143.8
400
300
200
100
0
−100
−200

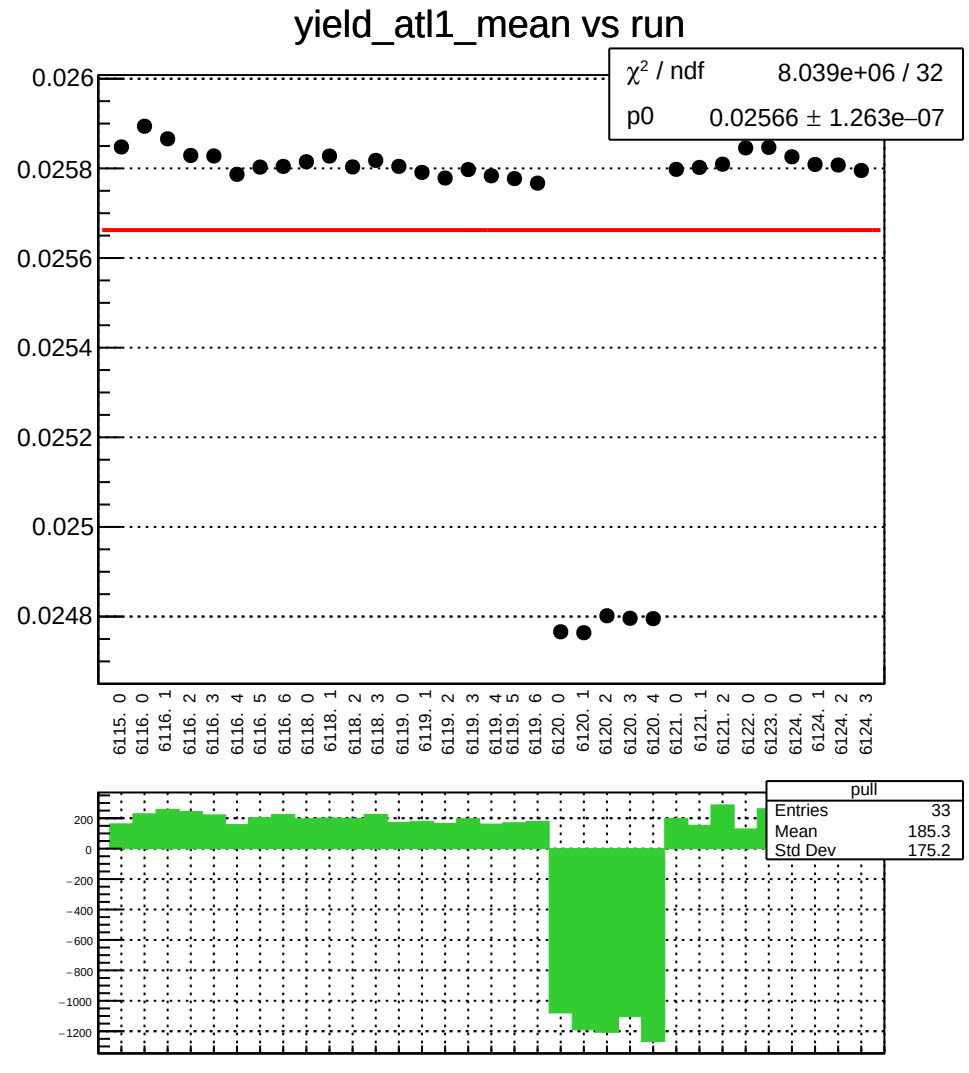

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

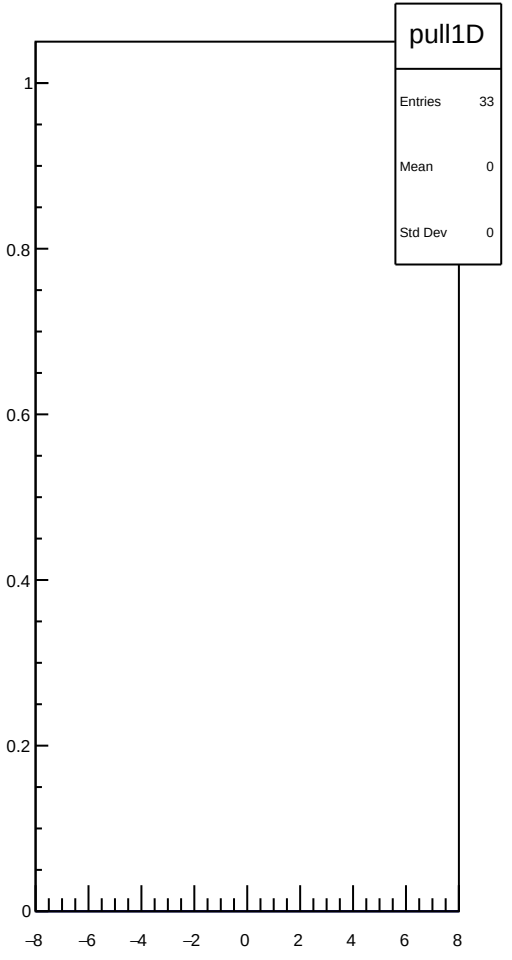

yield_dsl_rms vs run
χ² / ndf 9497 / 32
p0 0.04321 ± 5.386e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

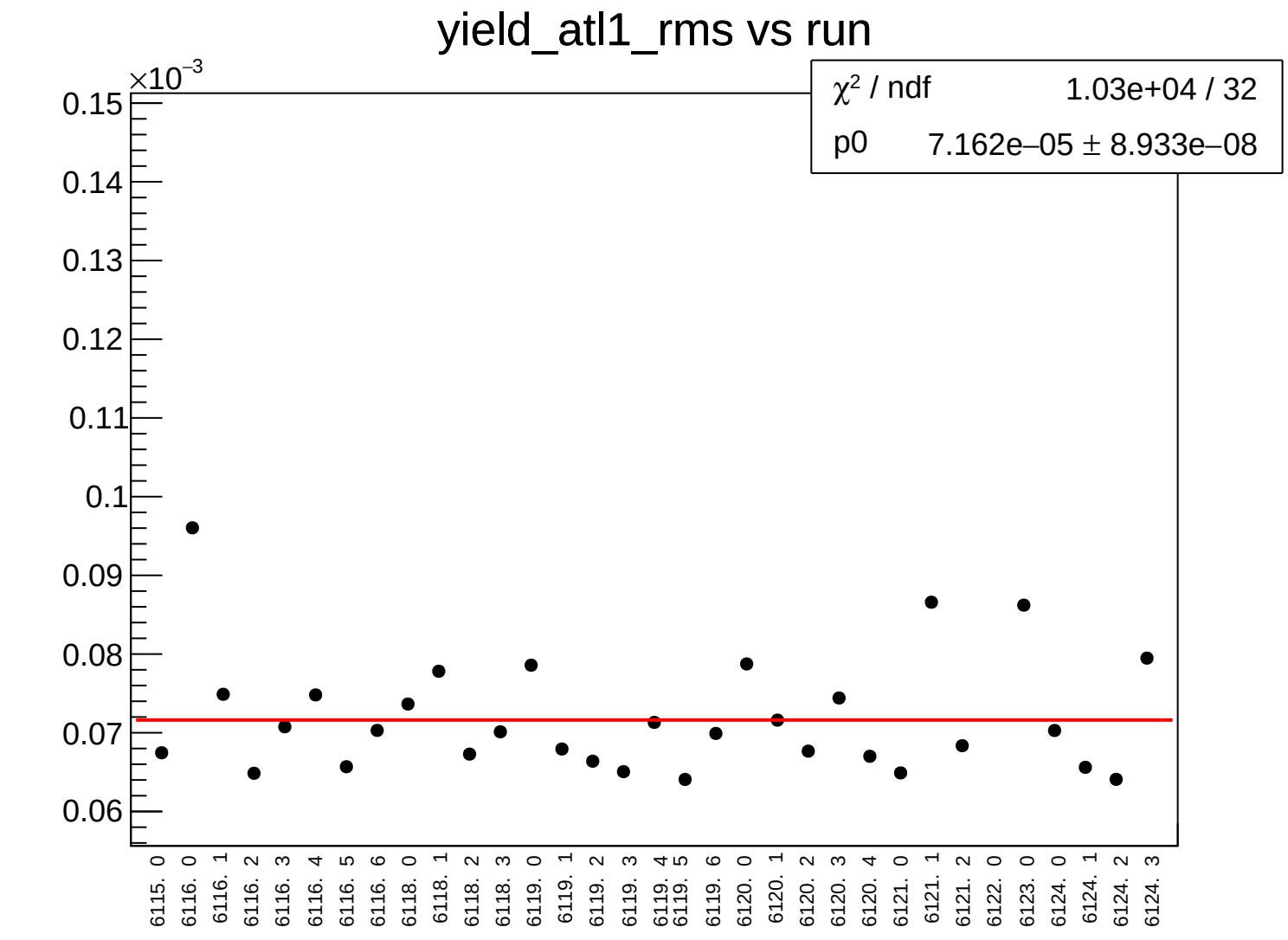

yield_dsr_mean vs run
χ² / ndf 1.672e+05 / 32
p0 −69.56 ± 0.0001095
−69.44
−69.46
−69.48
−69.5
−69.52
−69.54
−69.56
−69.58
−69.6
−69.62
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −69.84
Std Dev 89.17
150
100
50
0
−50
−100

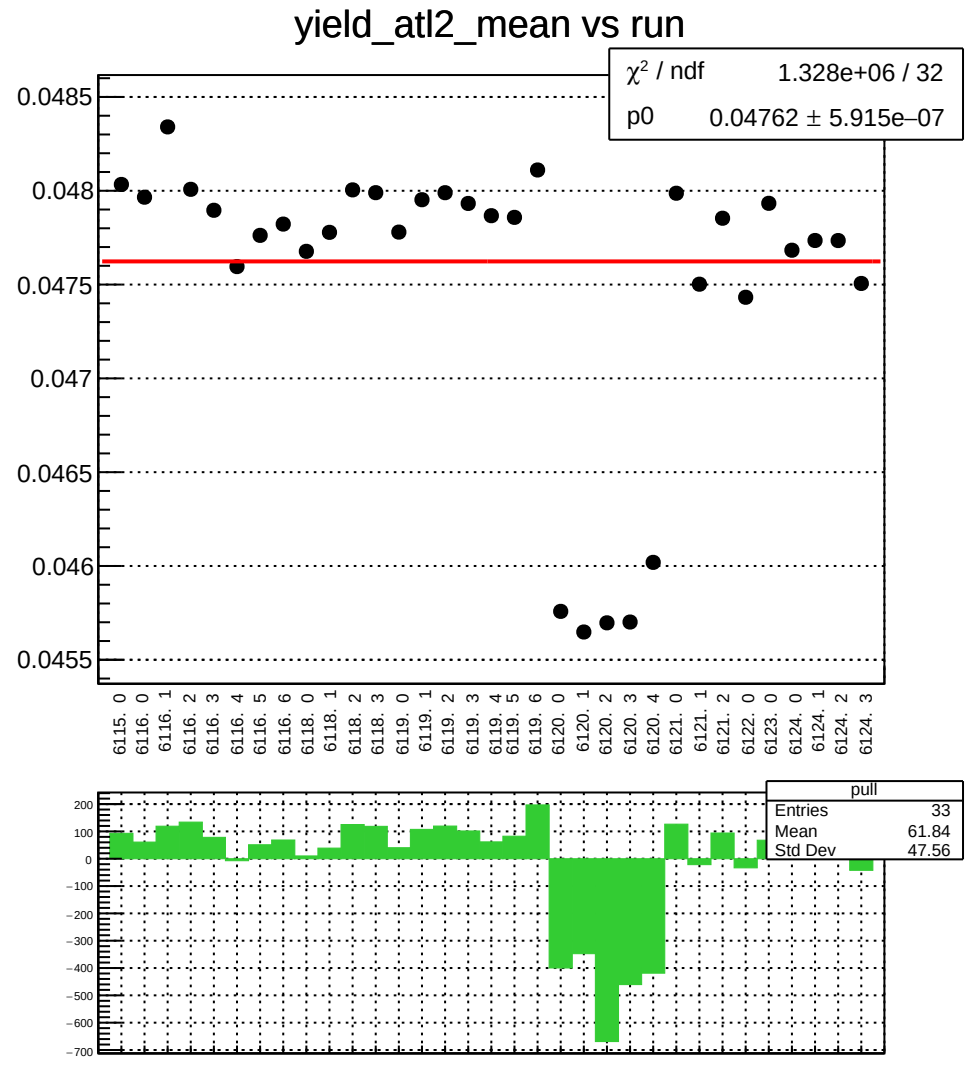

pull1D
Entries 33
Mean 1.726
Std Dev 4.866
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

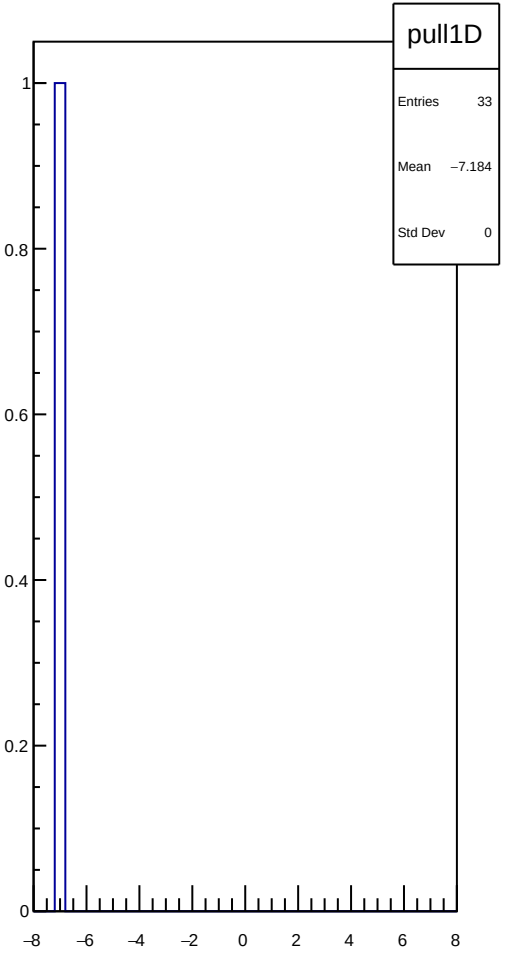

yield_dsr_rms vs run
χ² / ndf 2.372e+04 / 32
p0 0.06142 ± 7.742e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

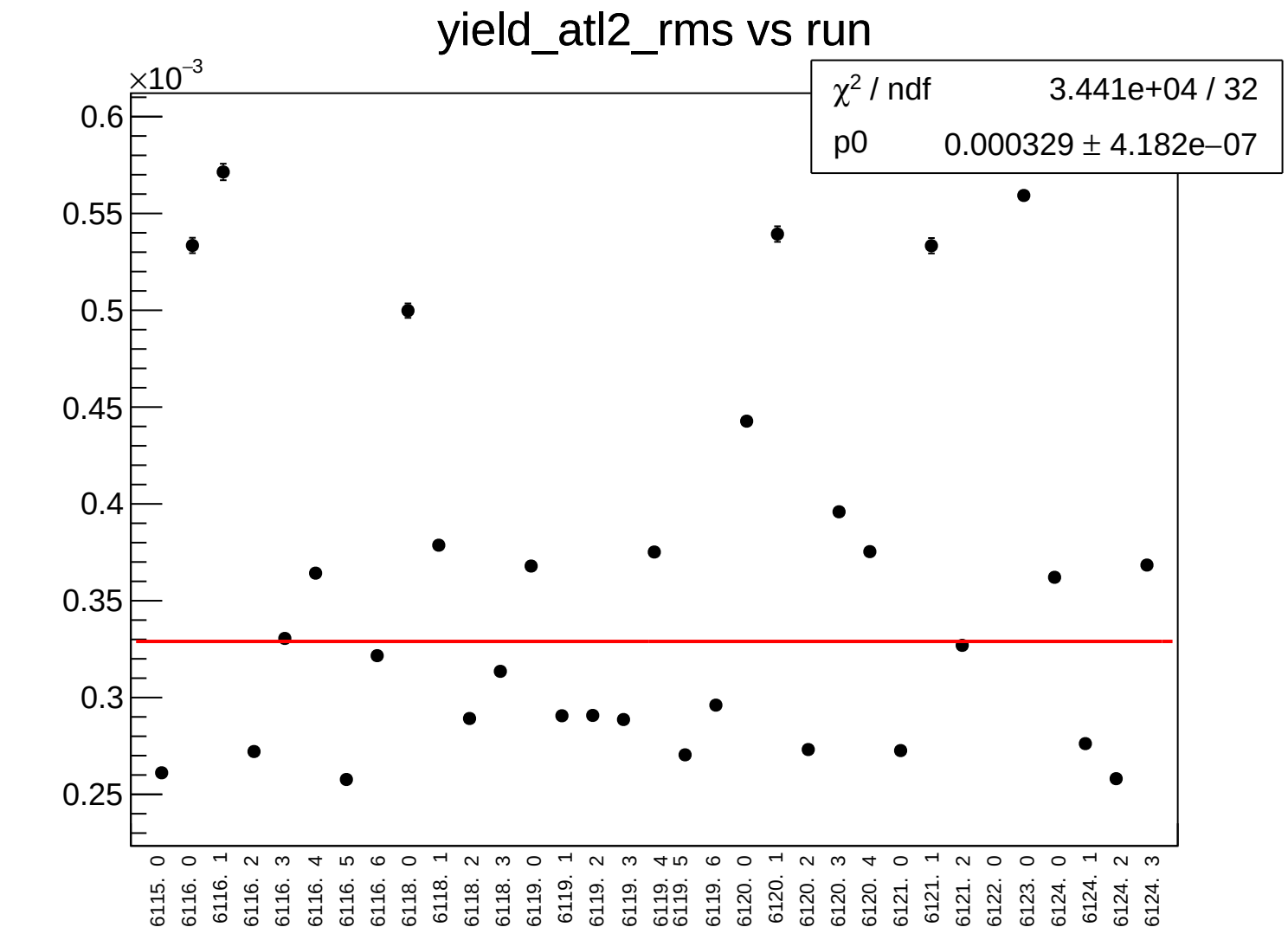

yield_atl1_mean vs run
χ² / ndf 8.039e+06 / 32
p0 0.02566 ± 1.263e−07
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 185.3
Std Dev 175.2
200
0
−200
−400
−600
−800
−1000
−1200

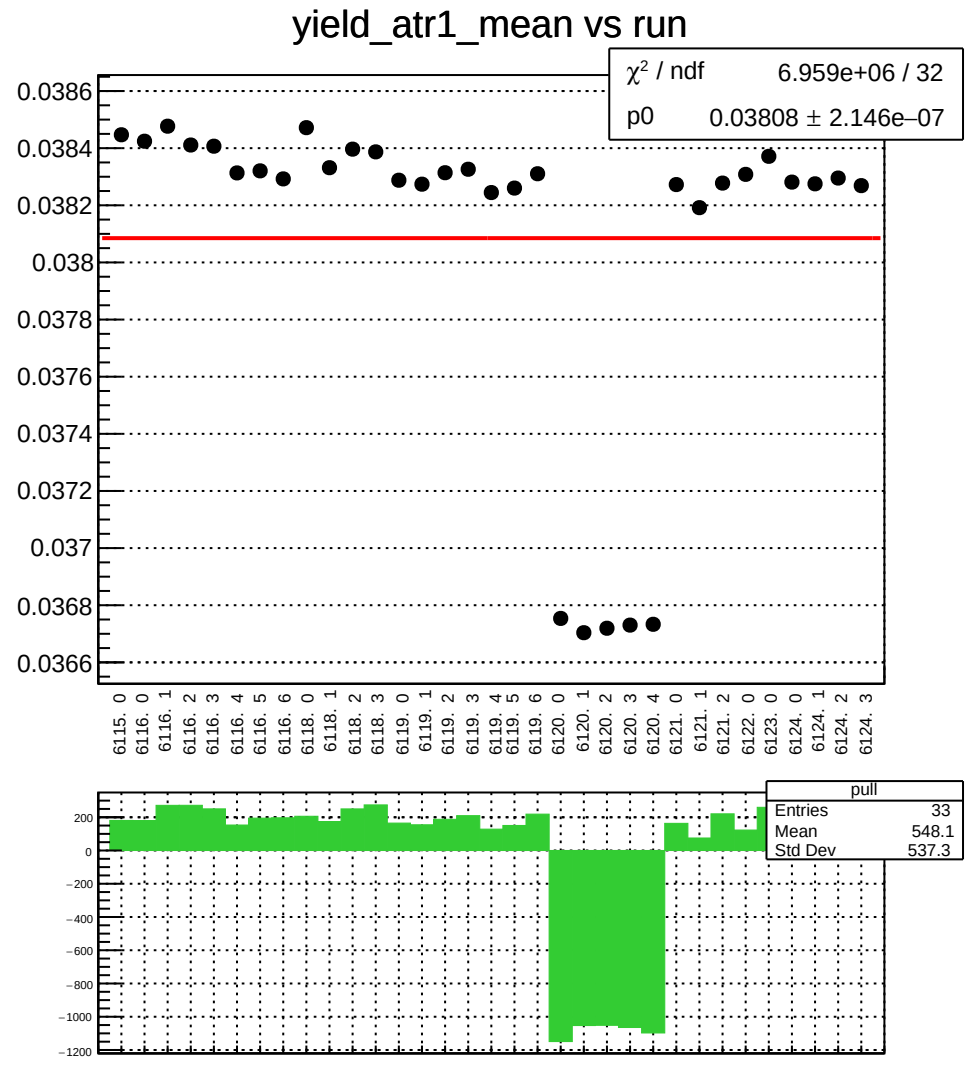

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

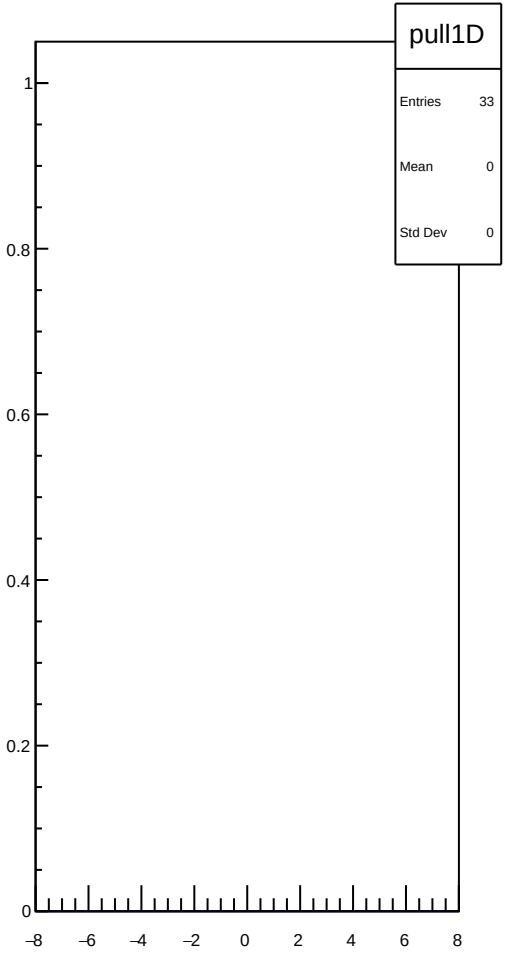

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.03e+04 / 32
p0 7.162e−05 ± 8.933e−08
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

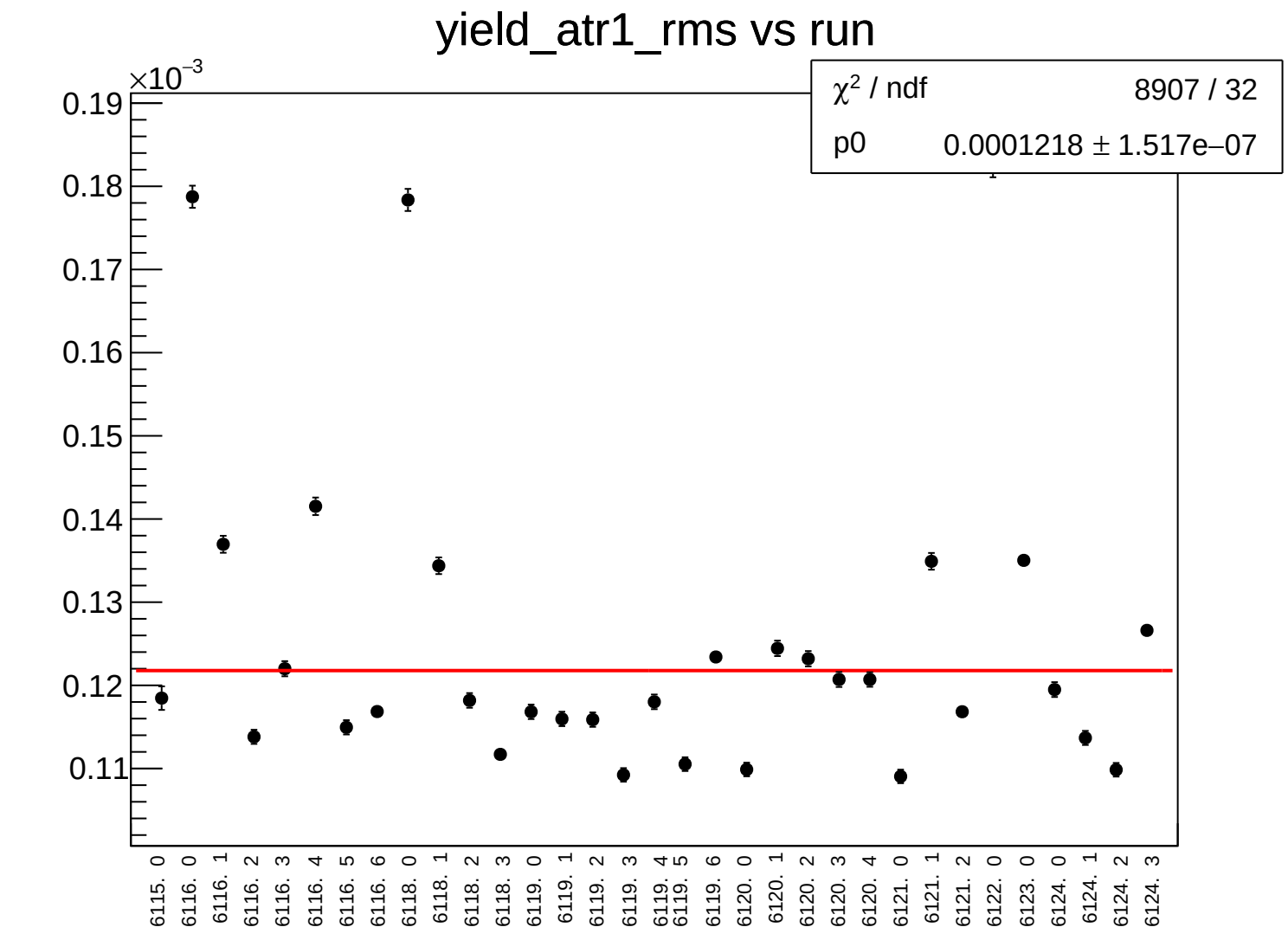

yield_atl2_mean vs run
χ² / ndf 1.328e+06 / 32
p0 0.04762 ± 5.915e–07
0.0485
0.048
0.0475
0.047
0.0465
0.046
0.0455
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 61.84
Std Dev 47.56
200
100
0
–100
–200
–300
–400
–500
–600
–700

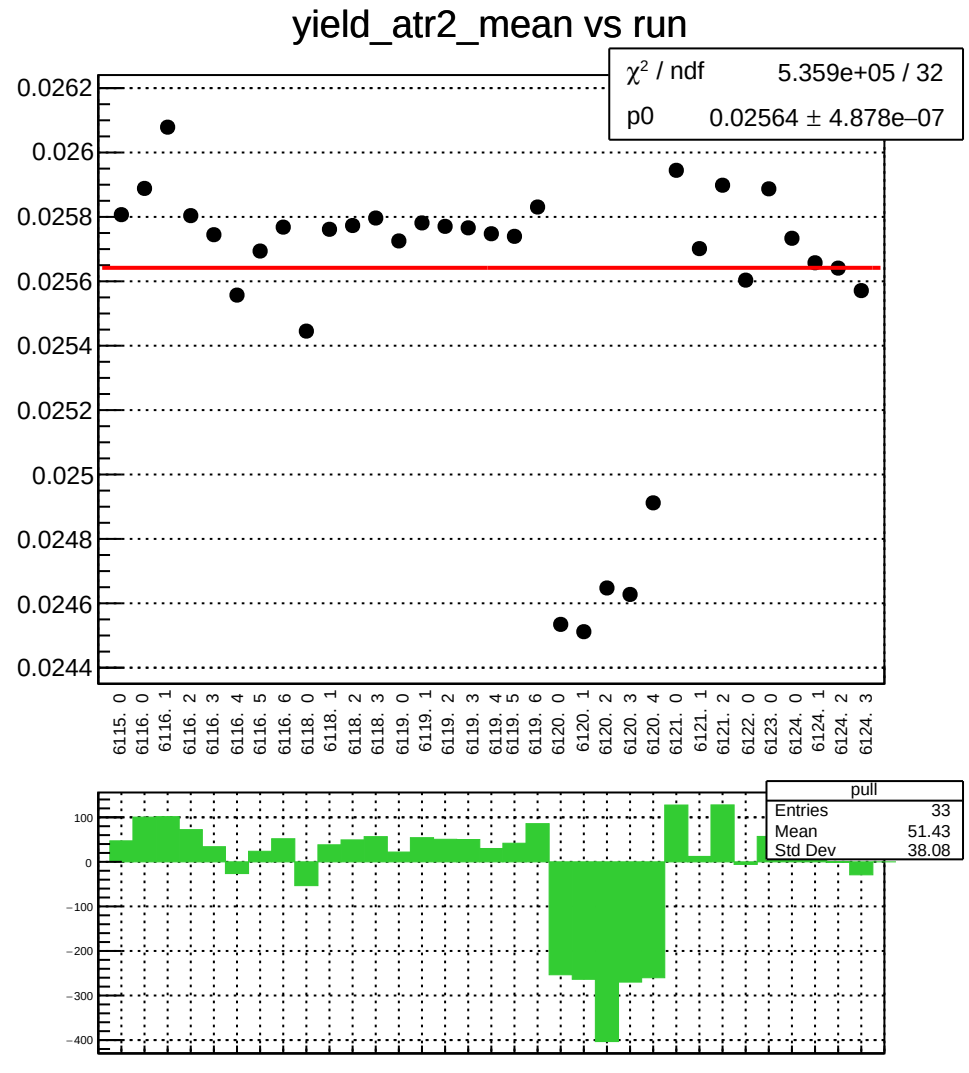

pull1D
Entries 33
Mean –7.184
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

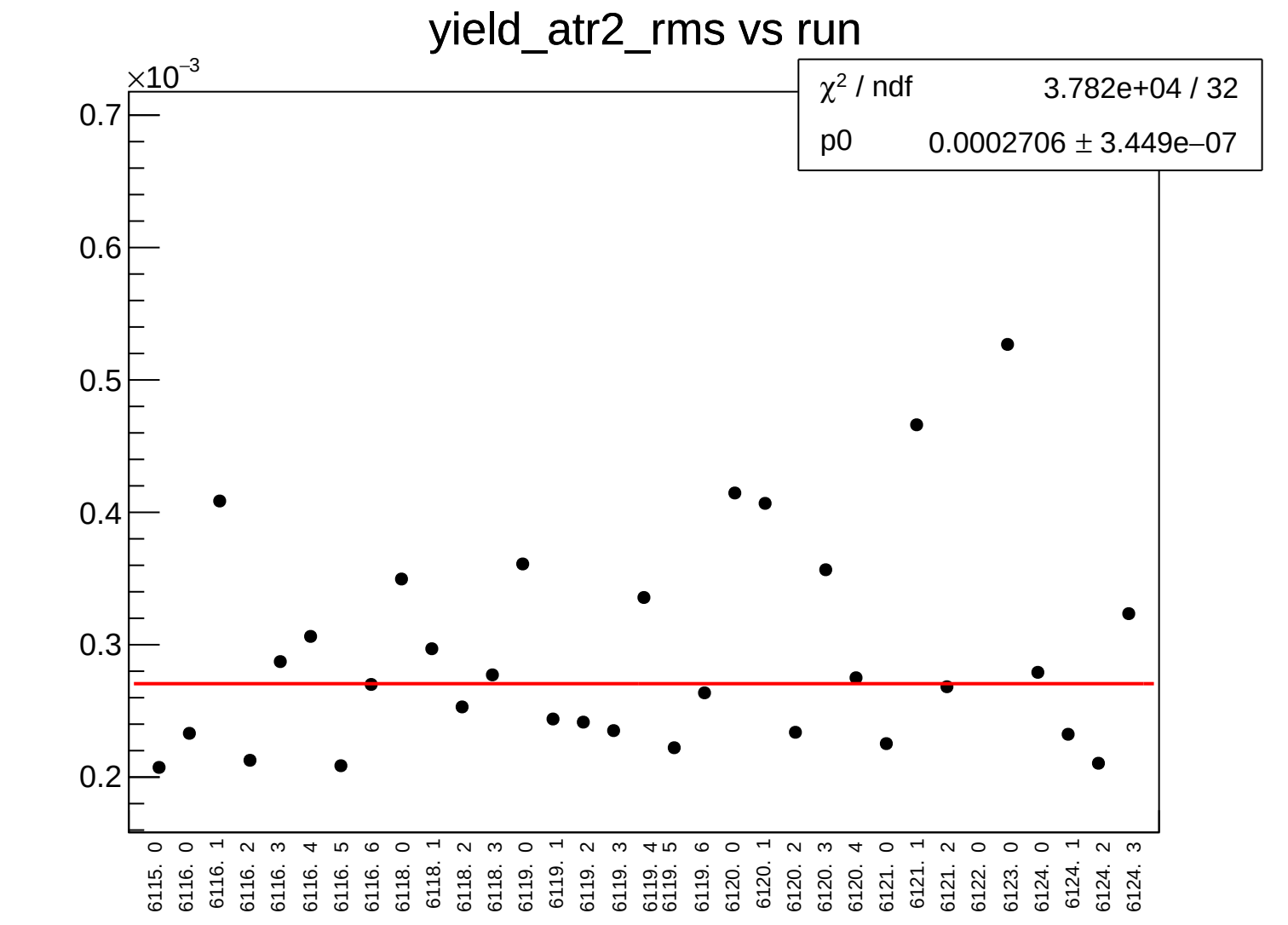

yield_atl2_rms vs run
×10⁻³
χ² / ndf 3.441e+04 / 32
p0 0.000329 ± 4.182e−07
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_atr1_mean vs run
χ² / ndf 6.959e+06 / 32
p0 0.03808 ± 2.146e−07
0.0386
0.0384
0.0382
0.038
0.0378
0.0376
0.0374
0.0372
0.037
0.0368
0.0366
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 548.1
Std Dev 537.3
200
0
−200
−400
−600
−800
−1000
−1200


pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atr1_rms vs run
×10⁻³
χ² / ndf 8907 / 32
p0 0.0001218 ± 1.517e−07
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_atr2_mean vs run
χ² / ndf 5.359e+05 / 32
p0 0.02564 ± 4.878e−07
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
0.0246
0.0244
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.43
Std Dev 38.08
100
0
−100
−200
−300
−400
pull1D
Entries 33
Mean 0.07655
Std Dev 4.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atr2_rms vs run
×10⁻³
χ² / ndf 3.782e+04 / 32
p0 0.0002706 ± 3.449e−07
0.7
0.6
0.5
0.4
0.3
0.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
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6121. 2
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6124. 0
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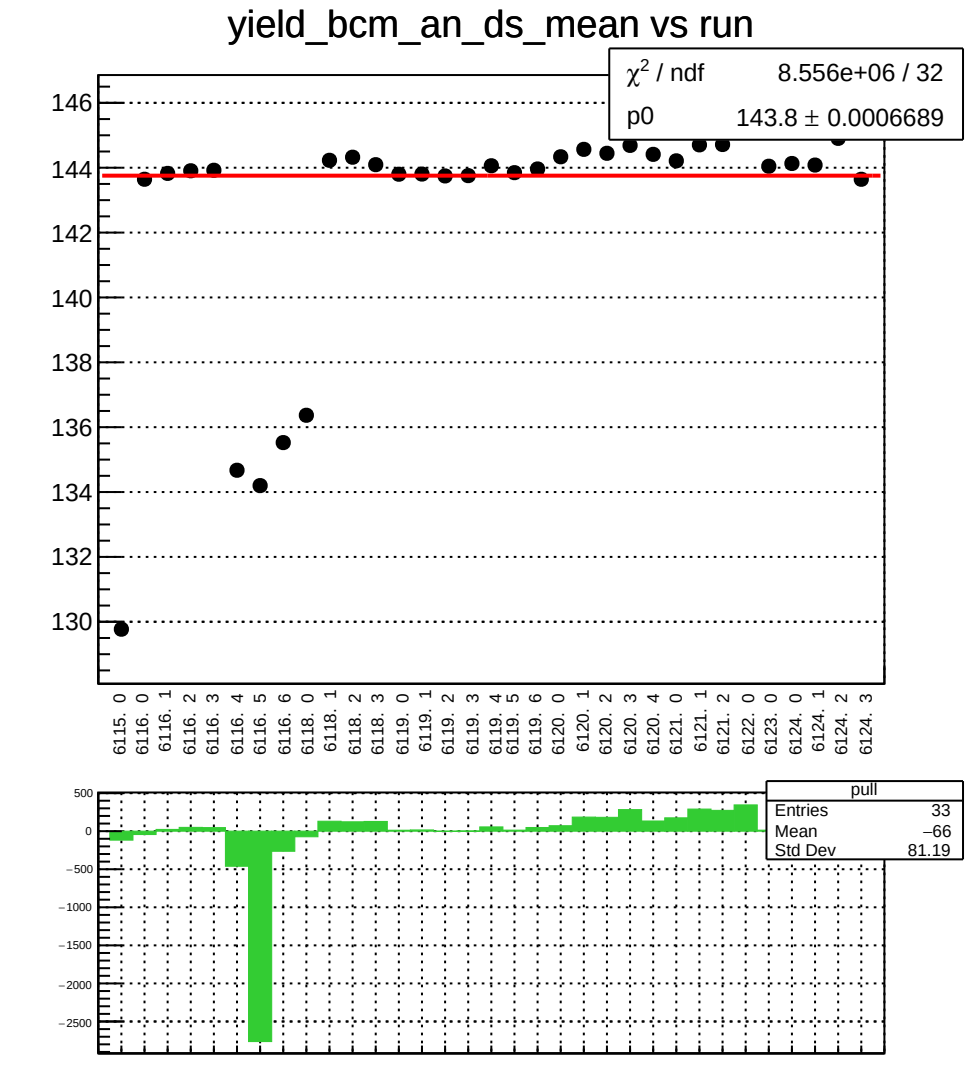
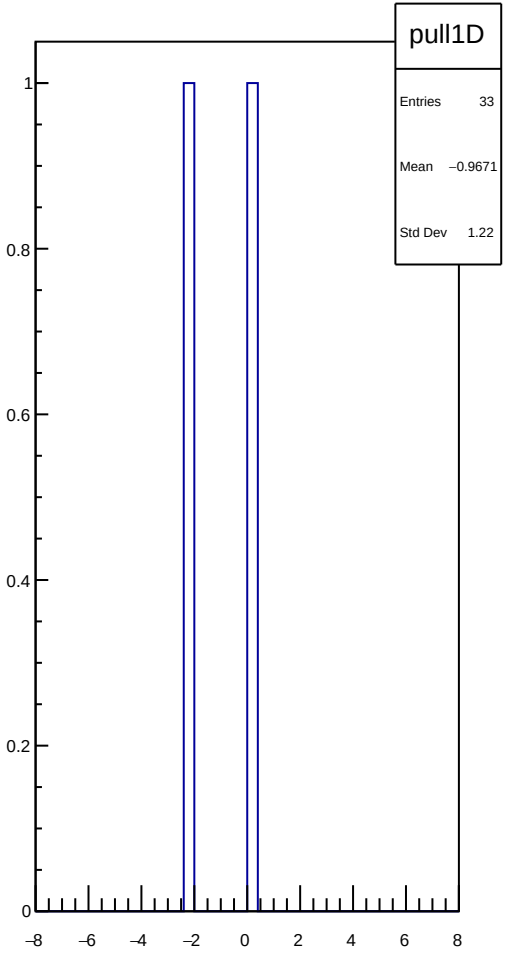
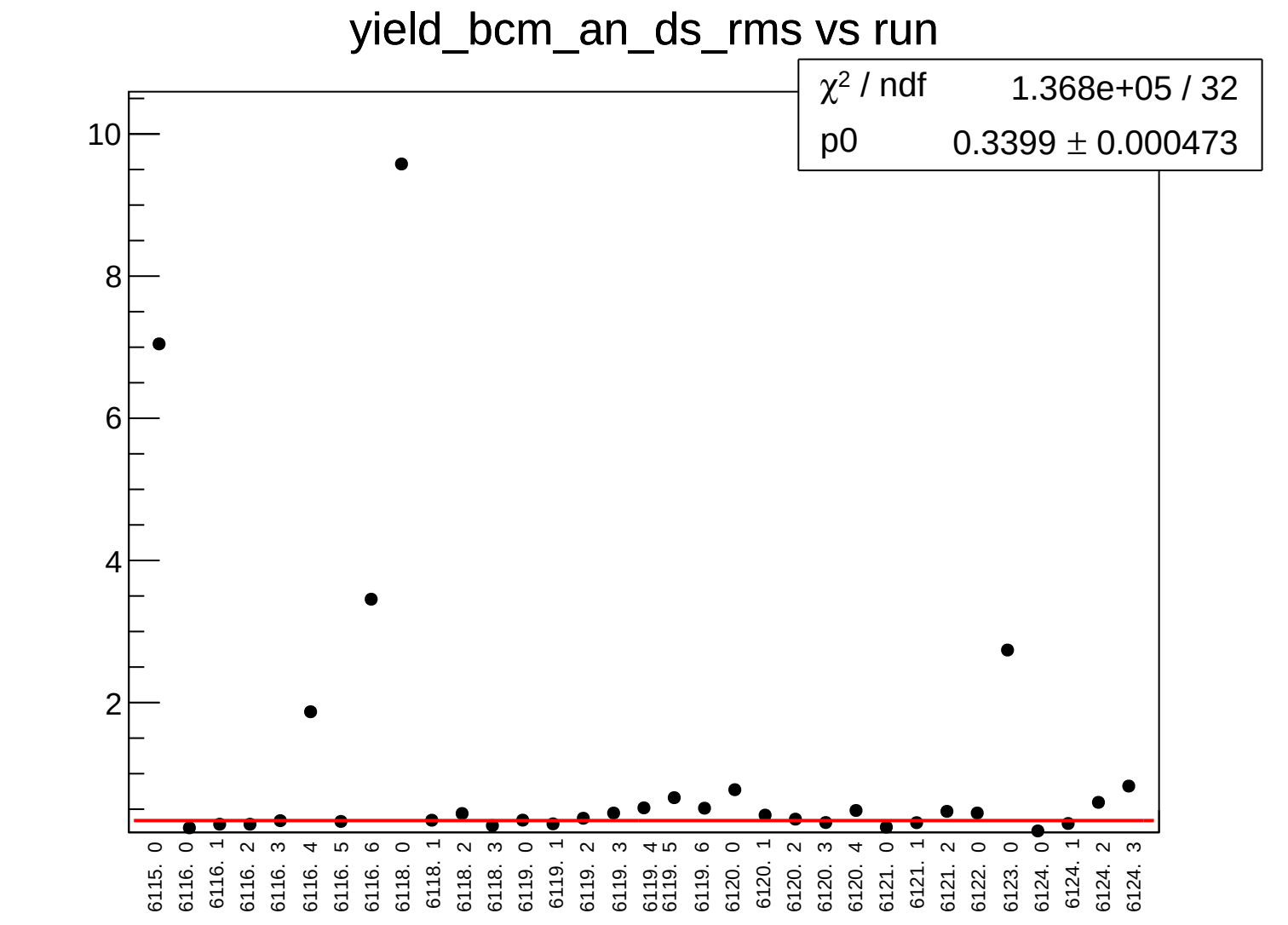
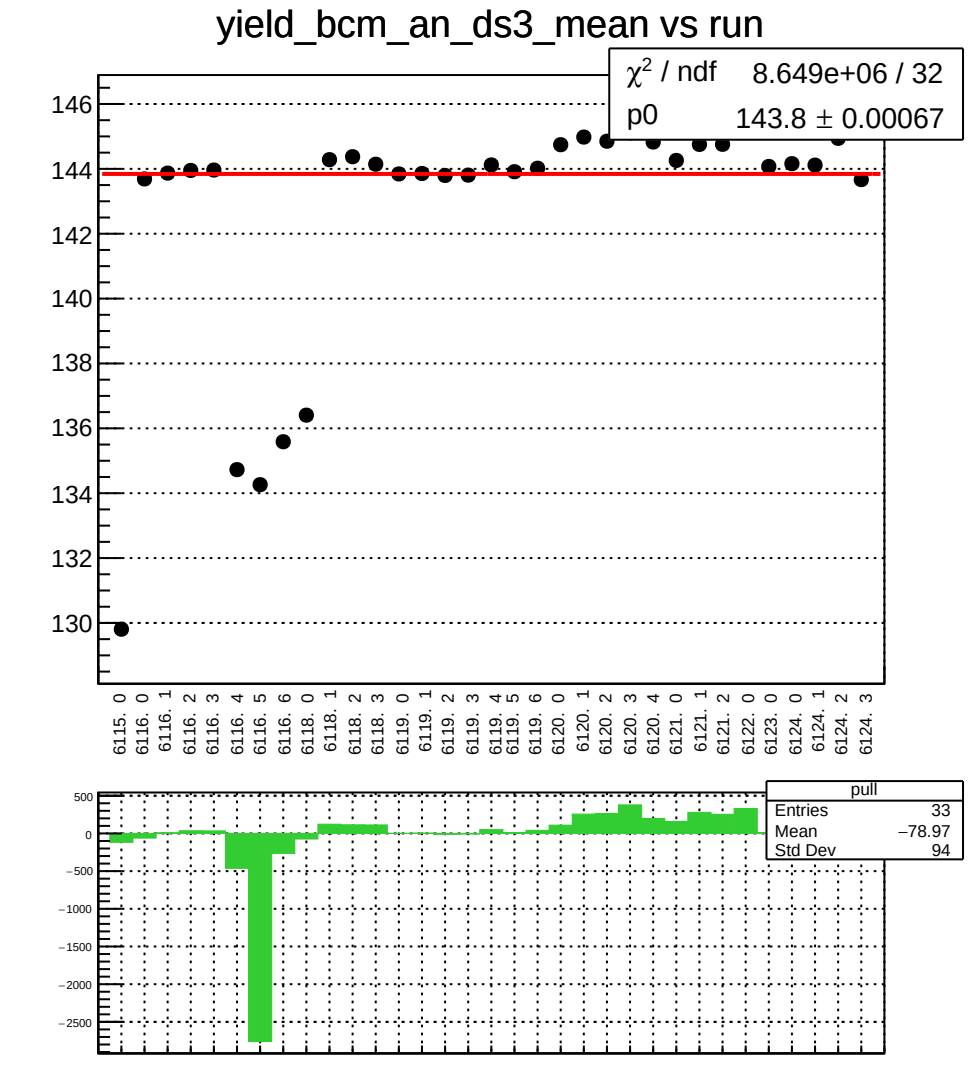
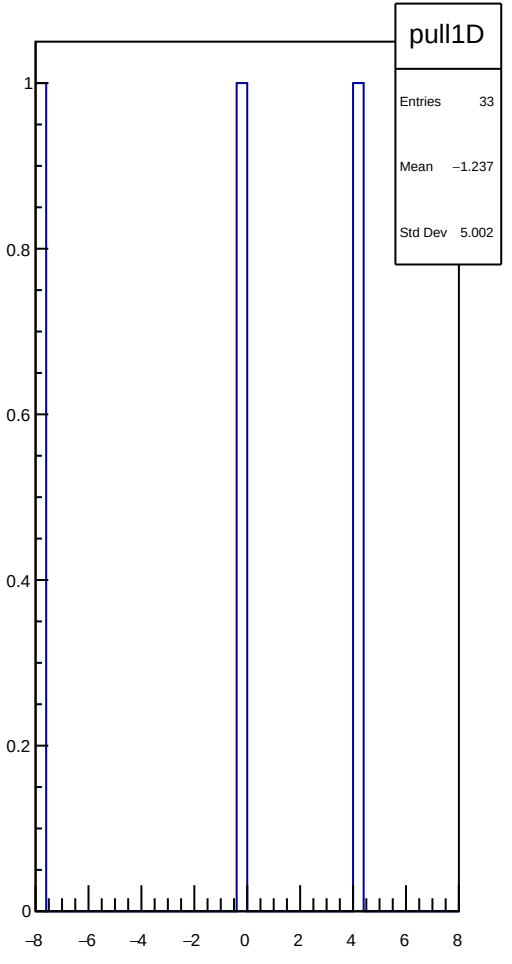
6124. 2
6124. 3

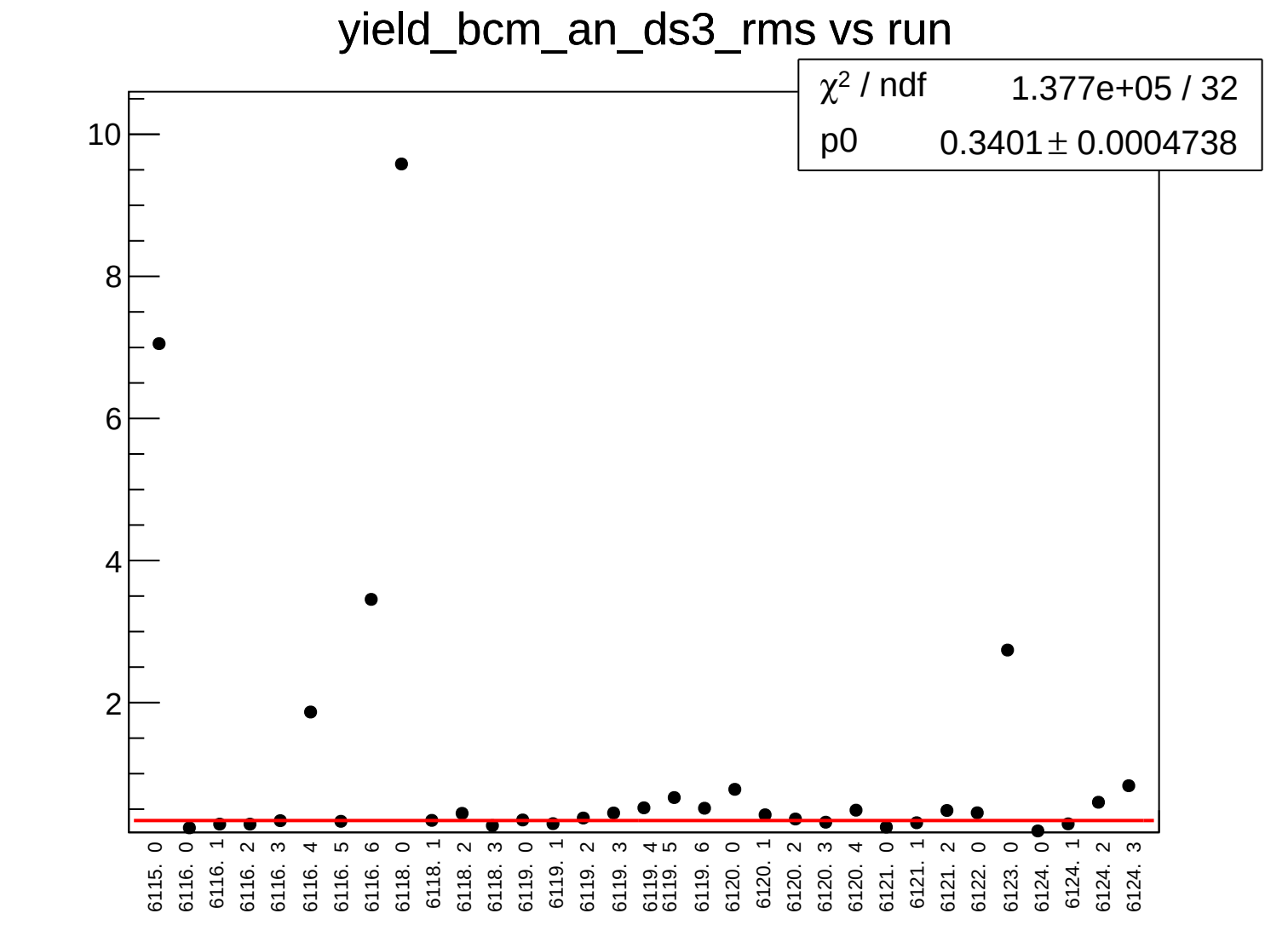

yield_bcm_an_ds_mean vs run
χ² / ndf 8.556e+06 / 32
p0 143.8 ± 0.0006689
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −66
Std Dev 81.19
500
0
−500
−1000
−1500
−2000
−2500

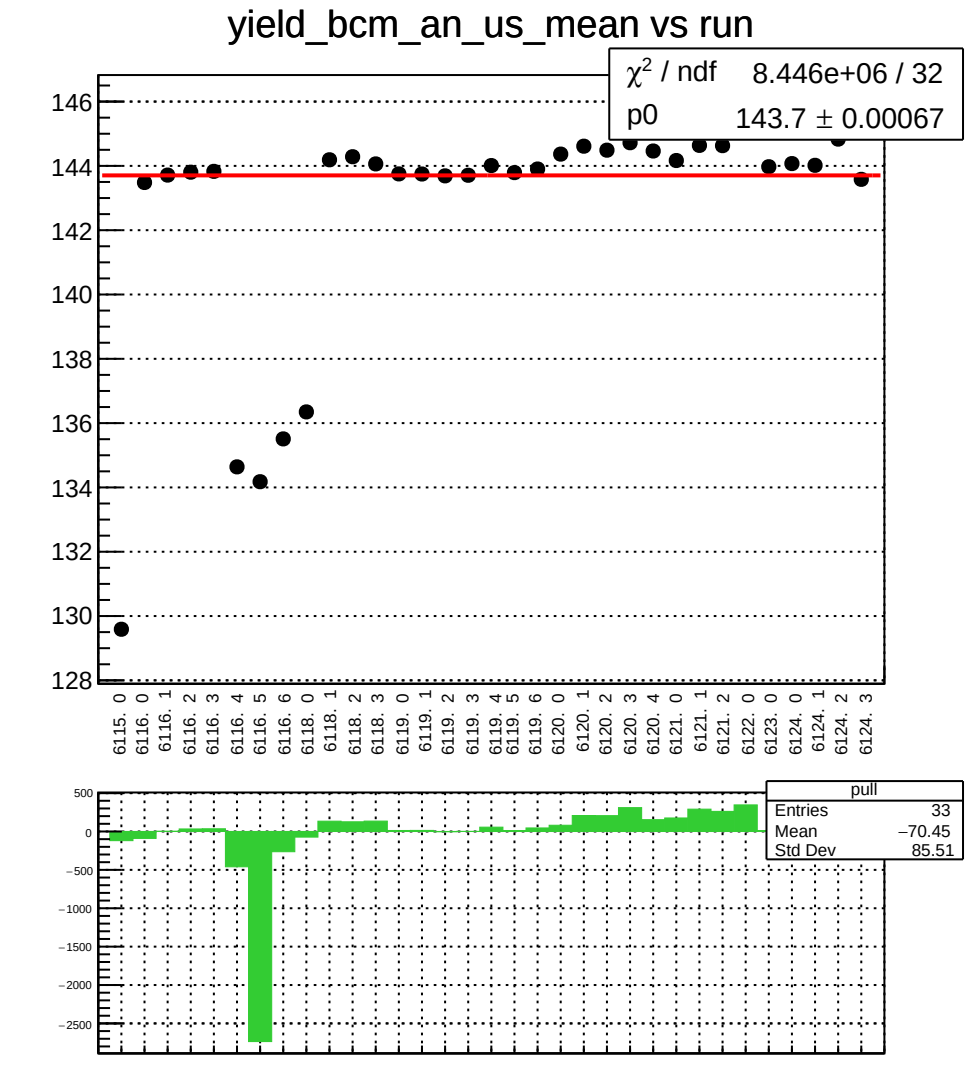

pull1D
Entries 33
Mean −0.9671
Std Dev 1.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

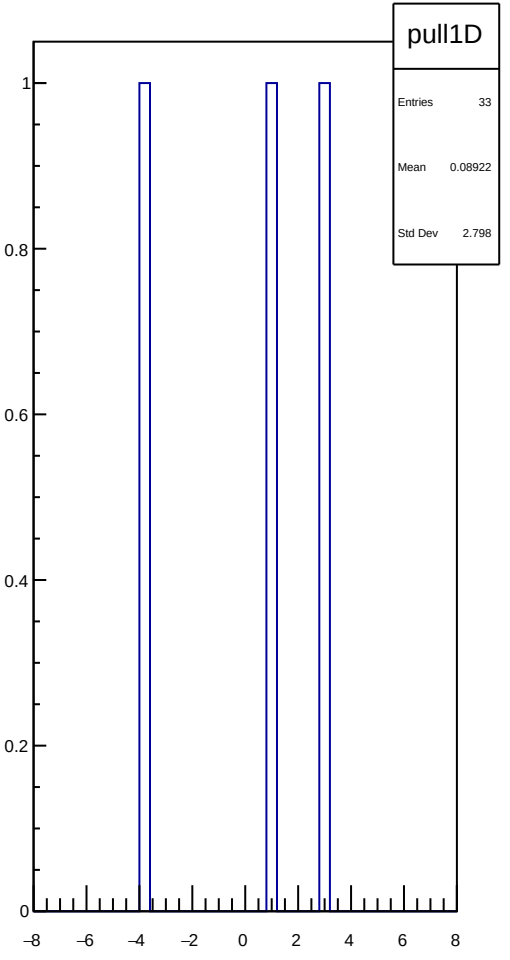

yield_bcm_an_ds_rms vs run
χ² / ndf 1.368e+05 / 32
p0 0.3399 ± 0.000473
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

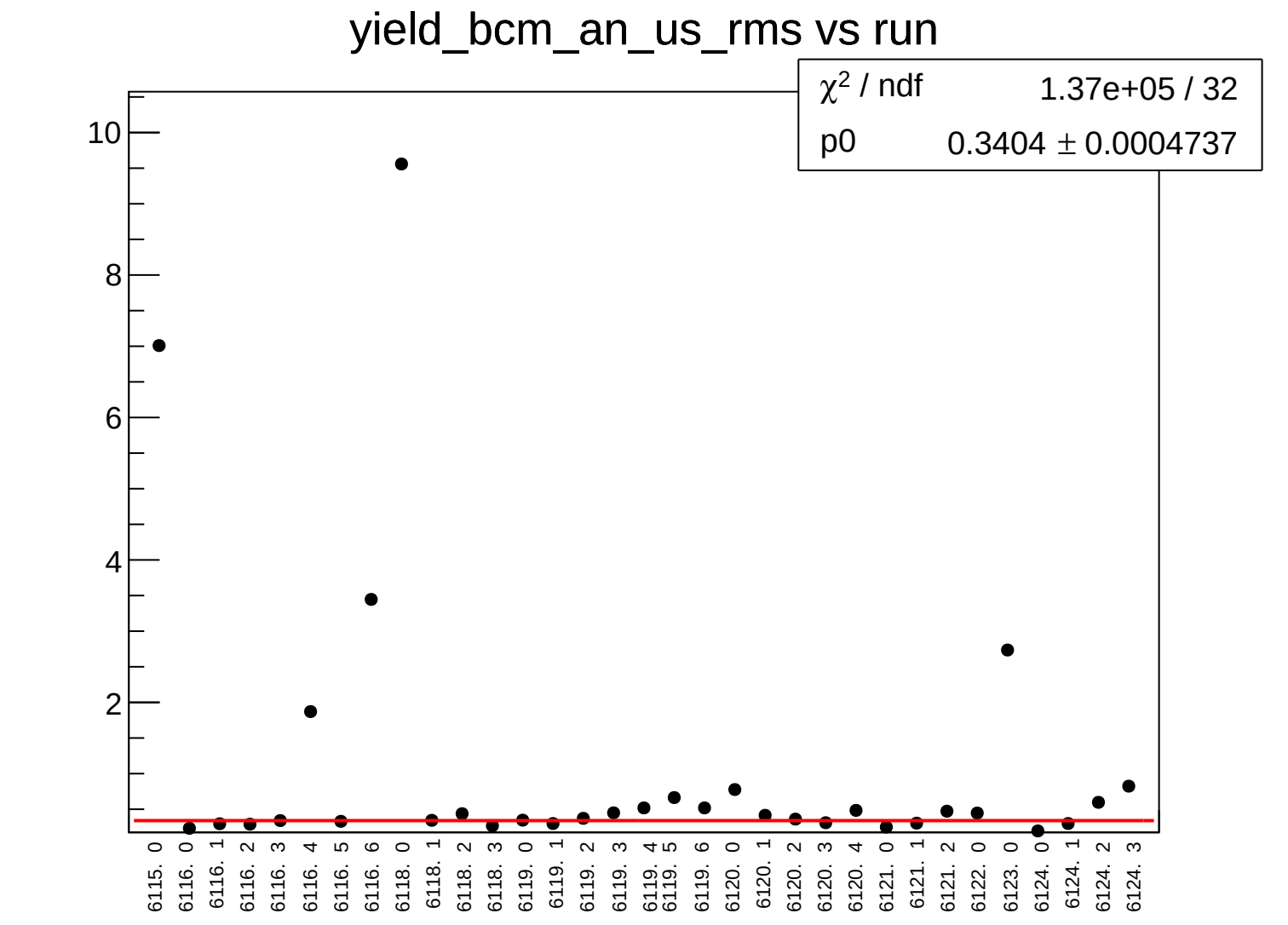

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.649e+06 / 32
p0 143.8 ± 0.00067
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −78.97
Std Dev 94
500
0
−500
−1000
−1500
−2000
−2500

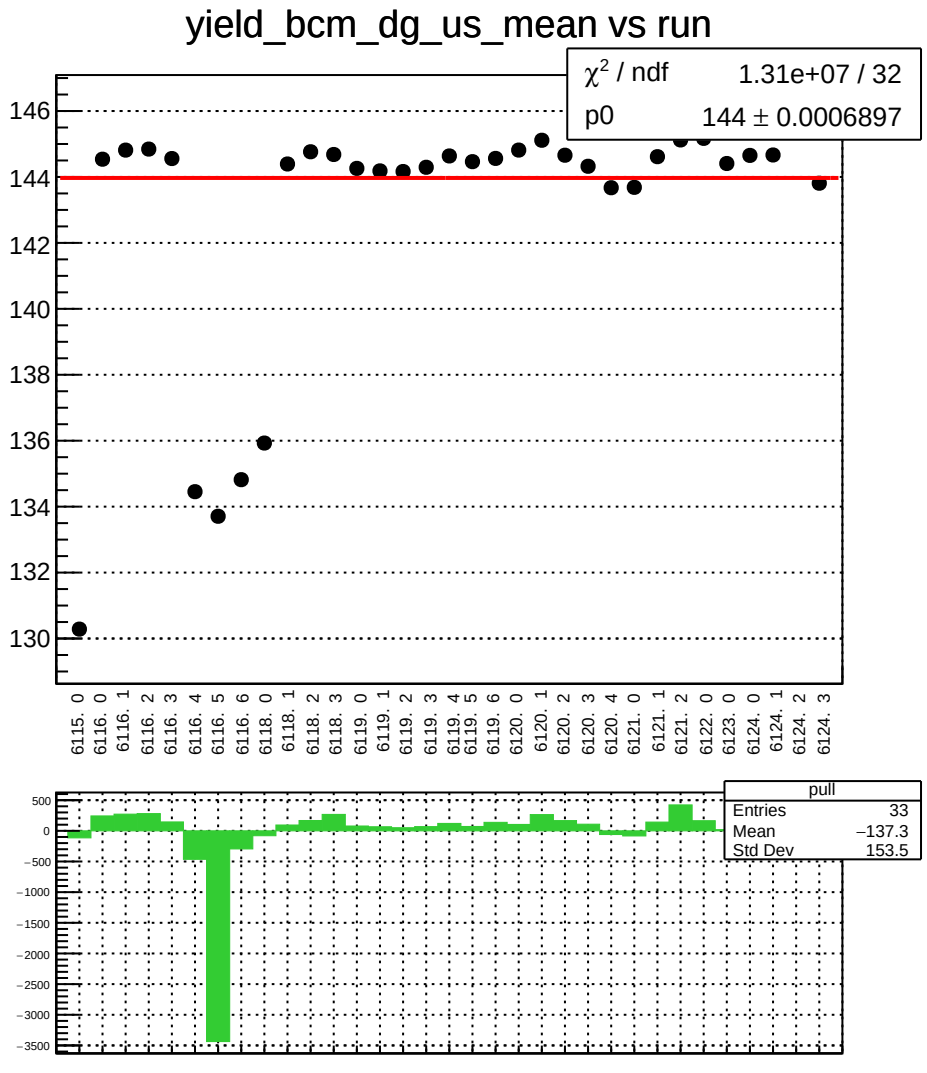

pull1D
Entries 33
Mean −1.237
Std Dev 5.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

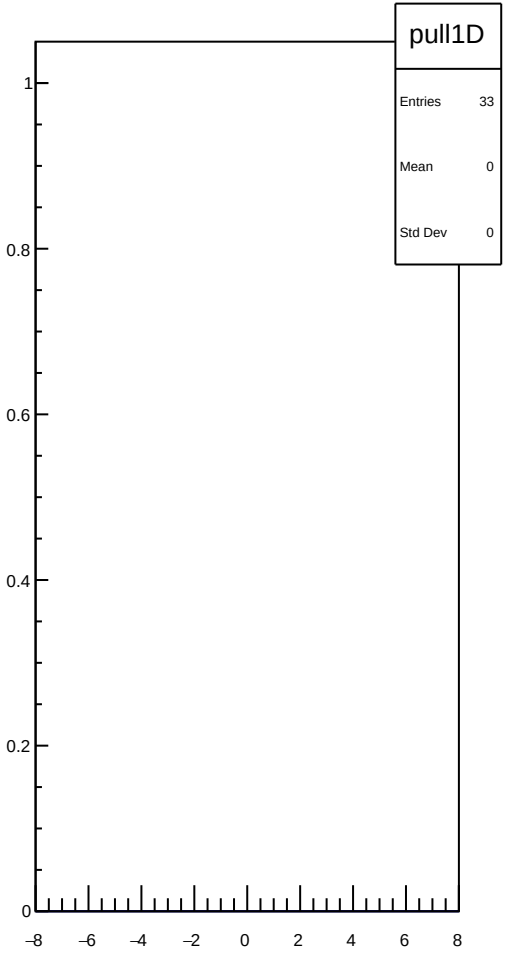

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.377e+05 / 32
p0 0.3401 ± 0.0004738
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

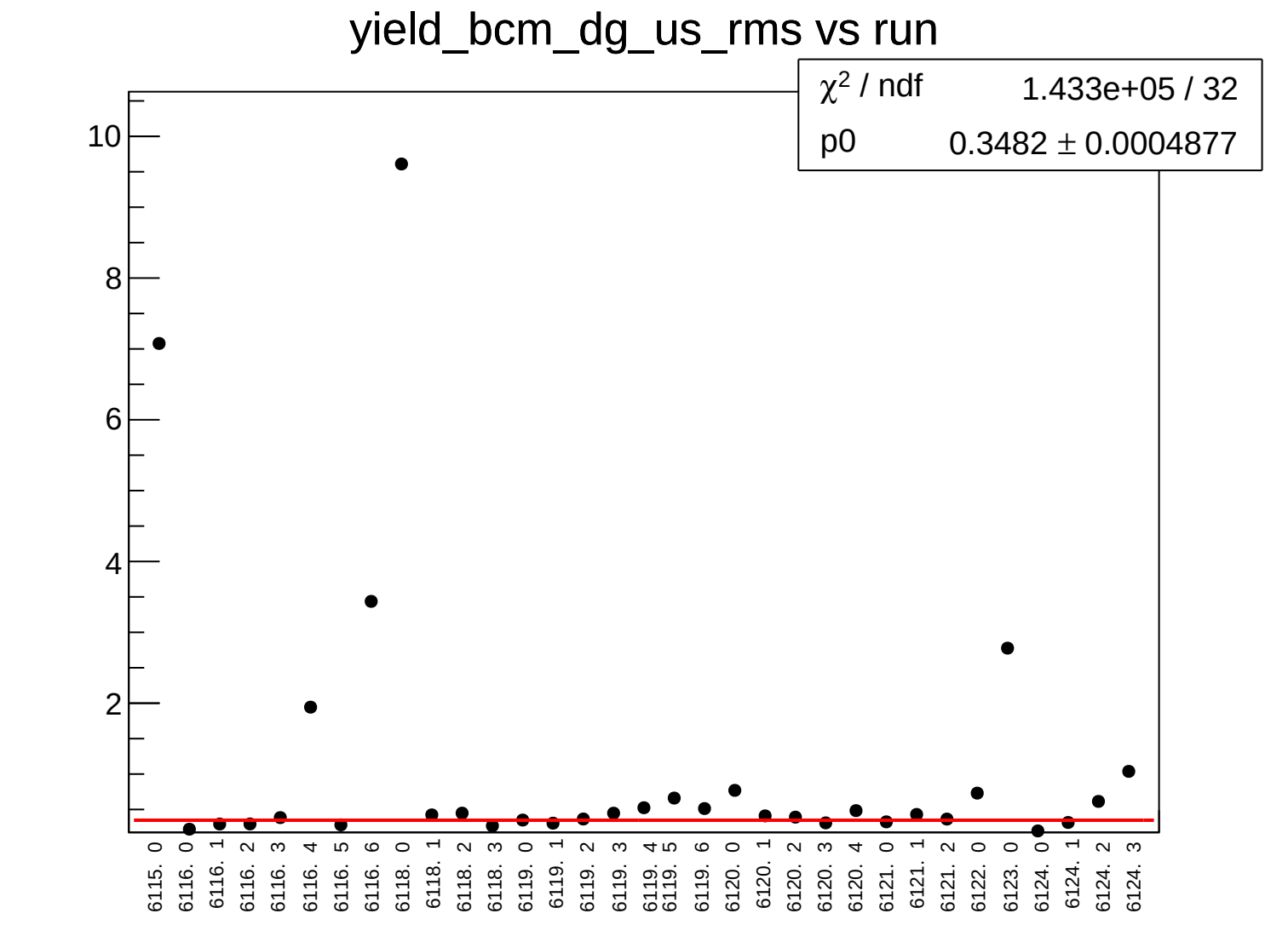

yield_bcm_an_us_mean vs run
χ² / ndf 8.446e+06 / 32
p0 143.7 ± 0.00067
146
144
142
140
138
136
134
132
130
128
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −70.45
Std Dev 85.51
500
0
−500
−1000
−1500
−2000
−2500

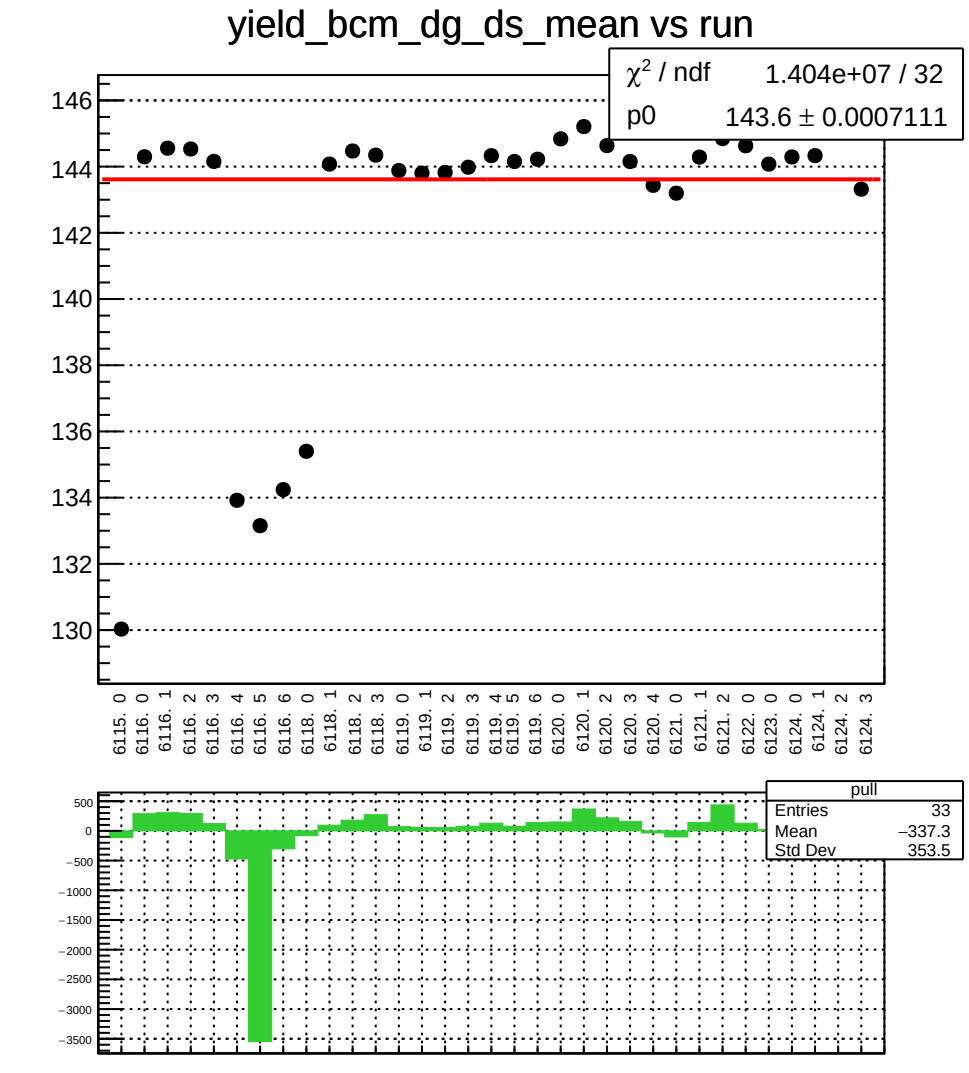

pull1D
Entries 33
Mean 0.08922
Std Dev 2.798
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

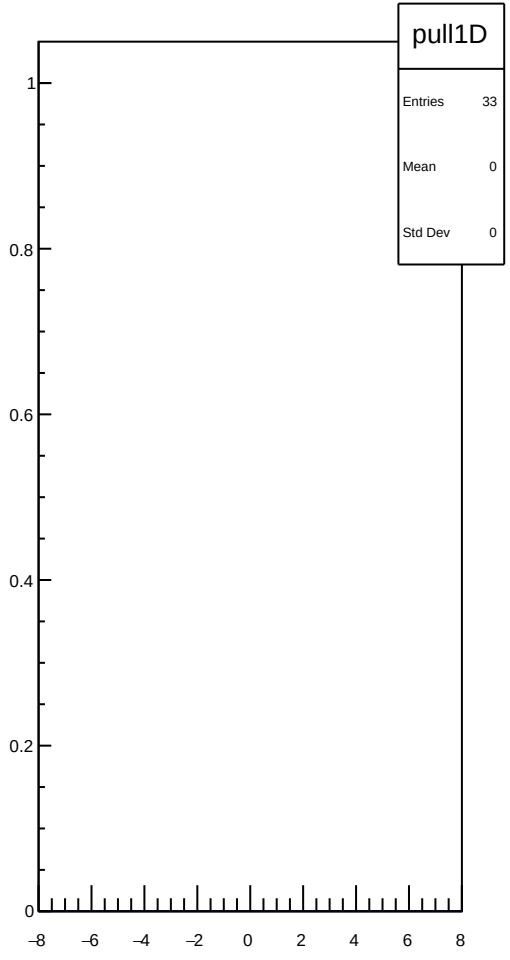

yield_bcm_an_us_rms vs run
χ² / ndf 1.37e+05 / 32
p0 0.3404 ± 0.0004737
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

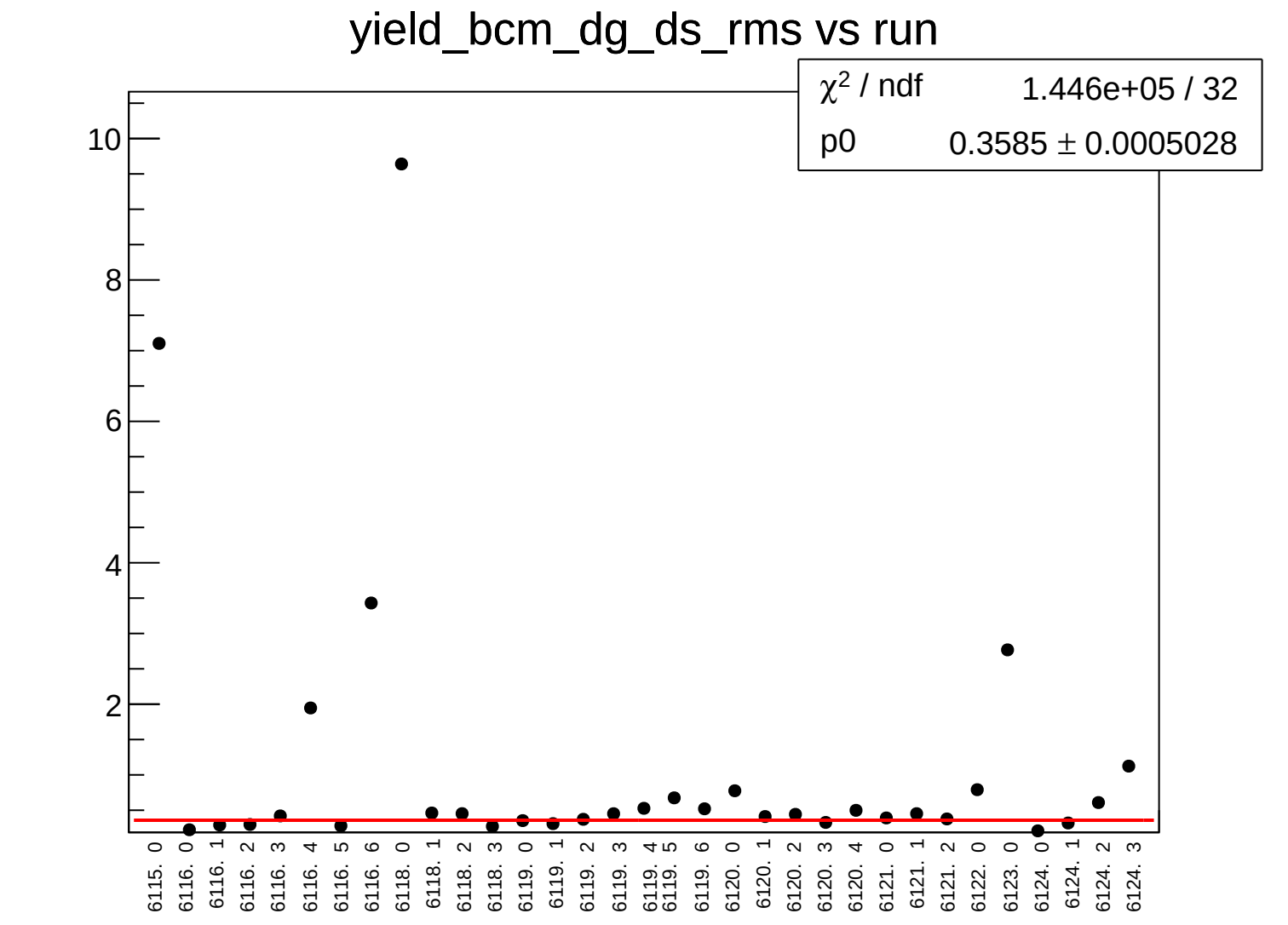

yield_bcm_dg_us_mean vs run
χ² / ndf 1.31e+07 / 32
p0 144 ± 0.0006897
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −137.3
Std Dev 153.5
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

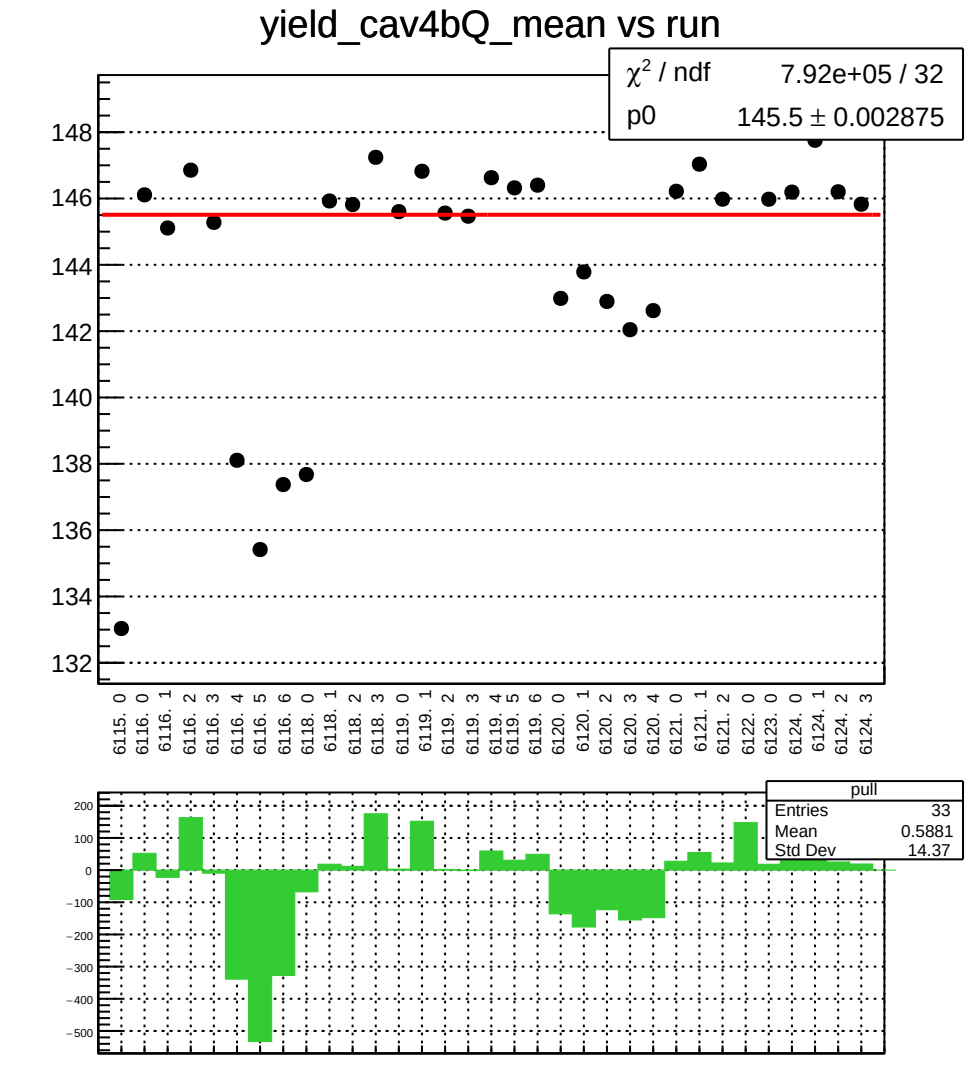

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

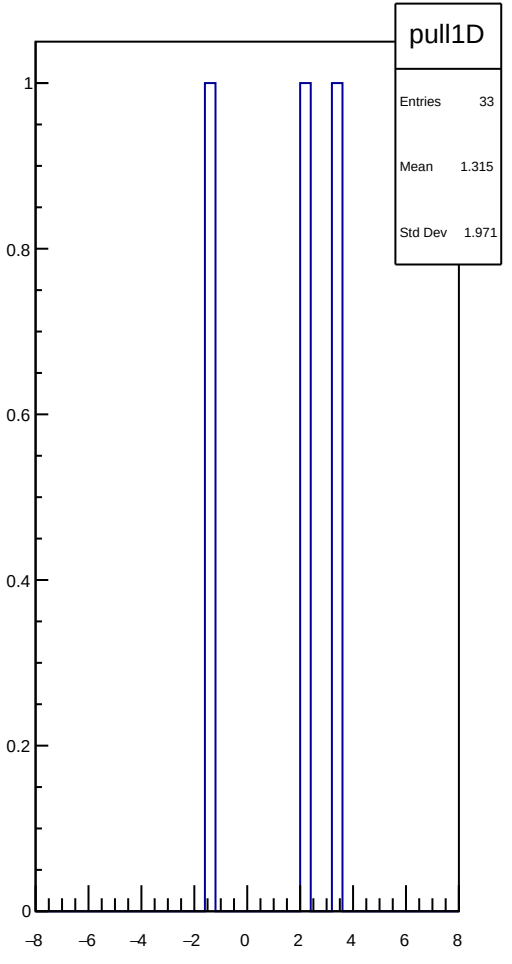

yield_bcm_dg_us_rms vs run
χ² / ndf 1.433e+05 / 32
p0 0.3482 ± 0.0004877
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

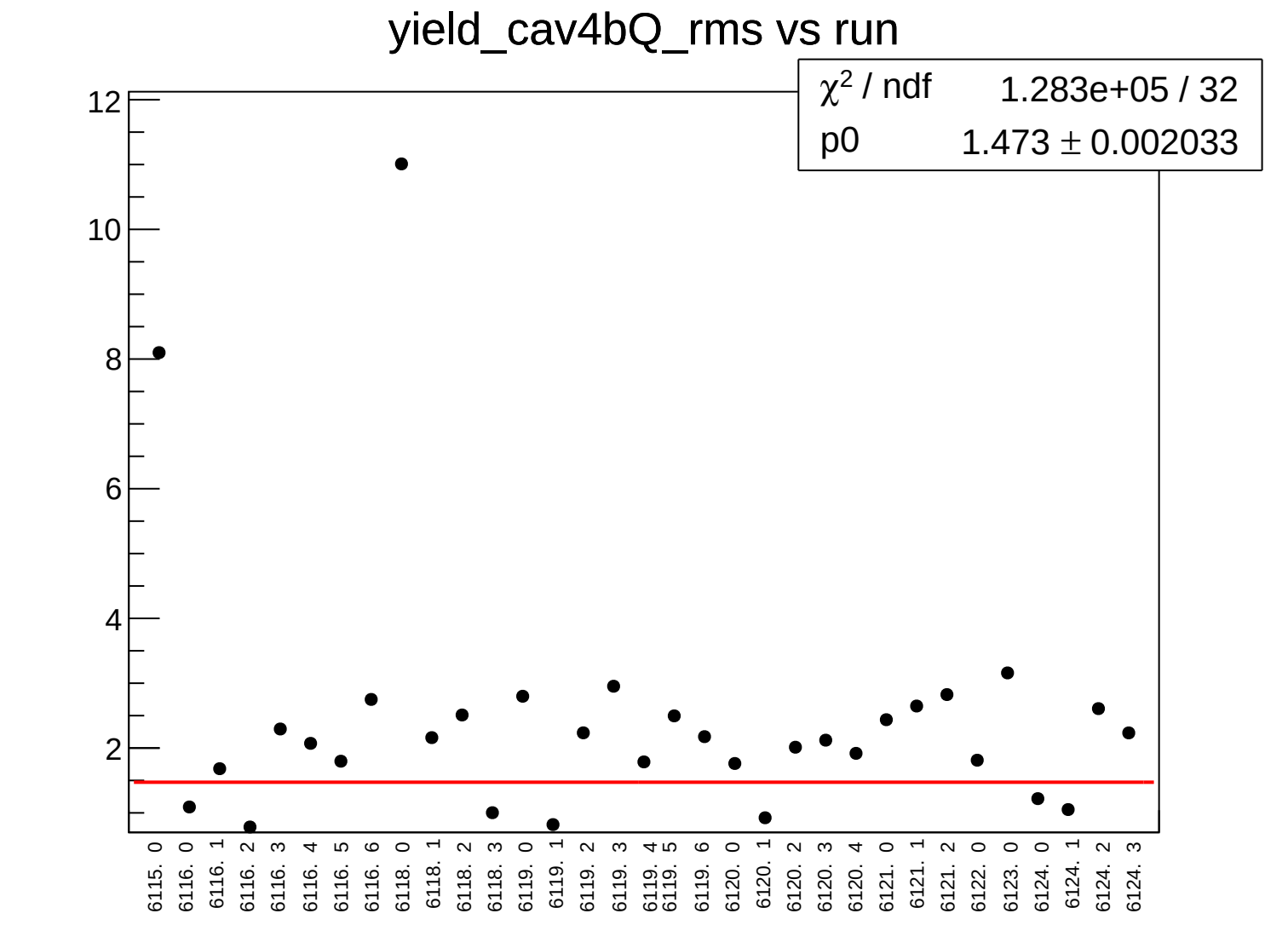

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.404e+07 / 32
p0 143.6 ± 0.0007111
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −337.3
Std Dev 353.5
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

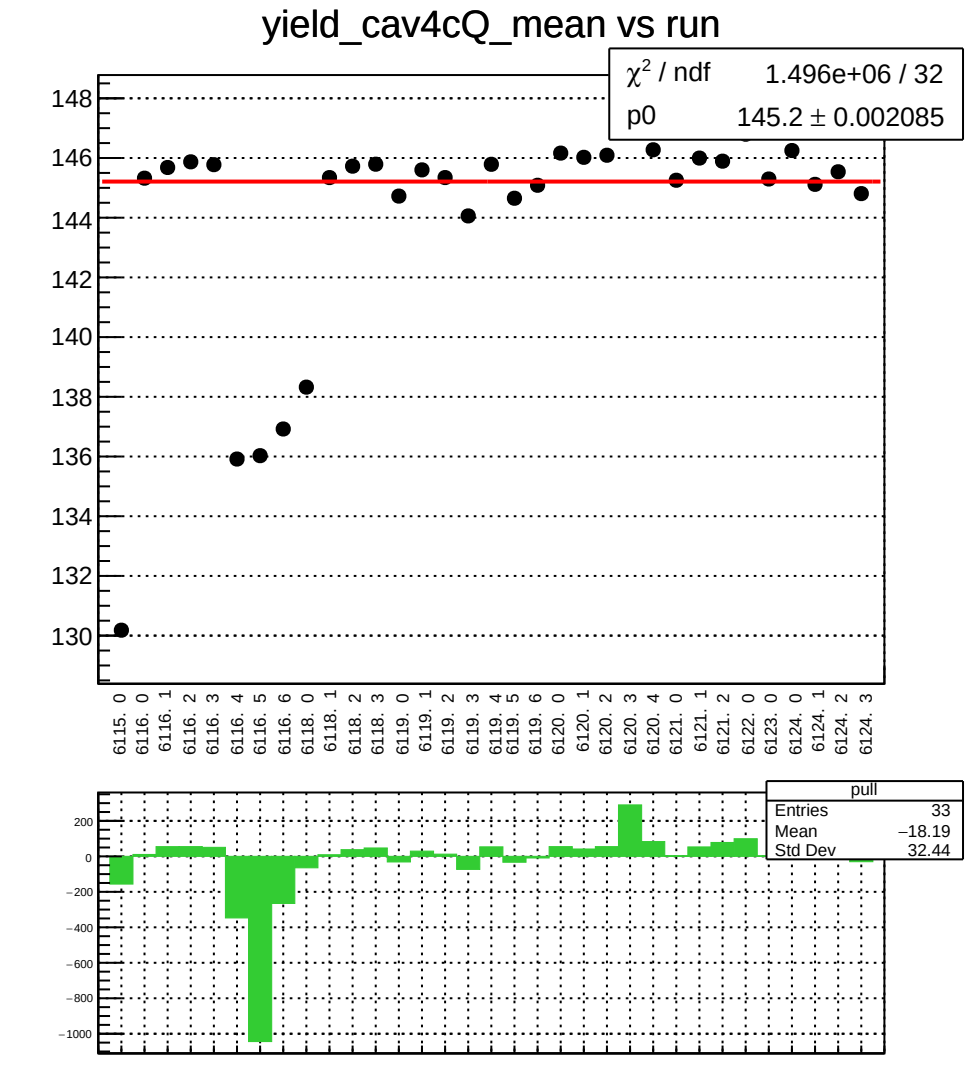

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

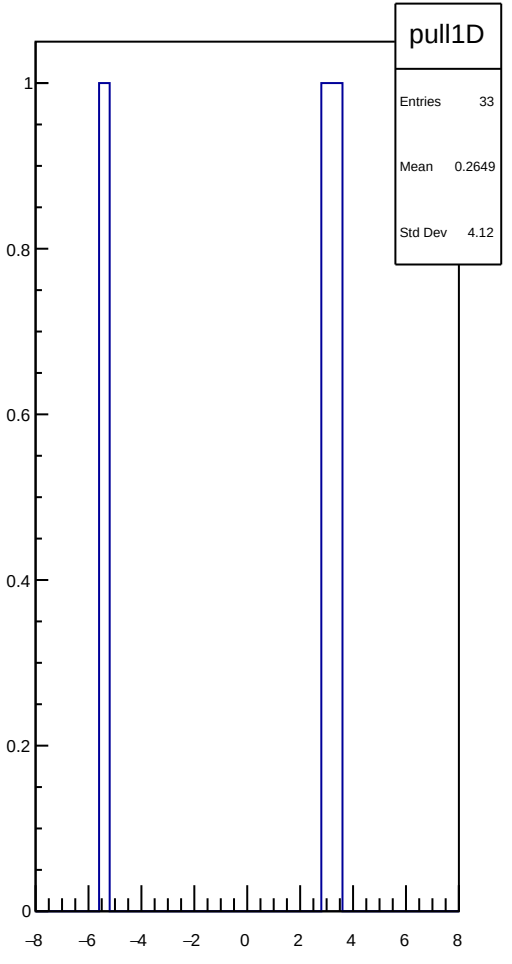

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.446e+05 / 32
p0 0.3585 ± 0.0005028
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

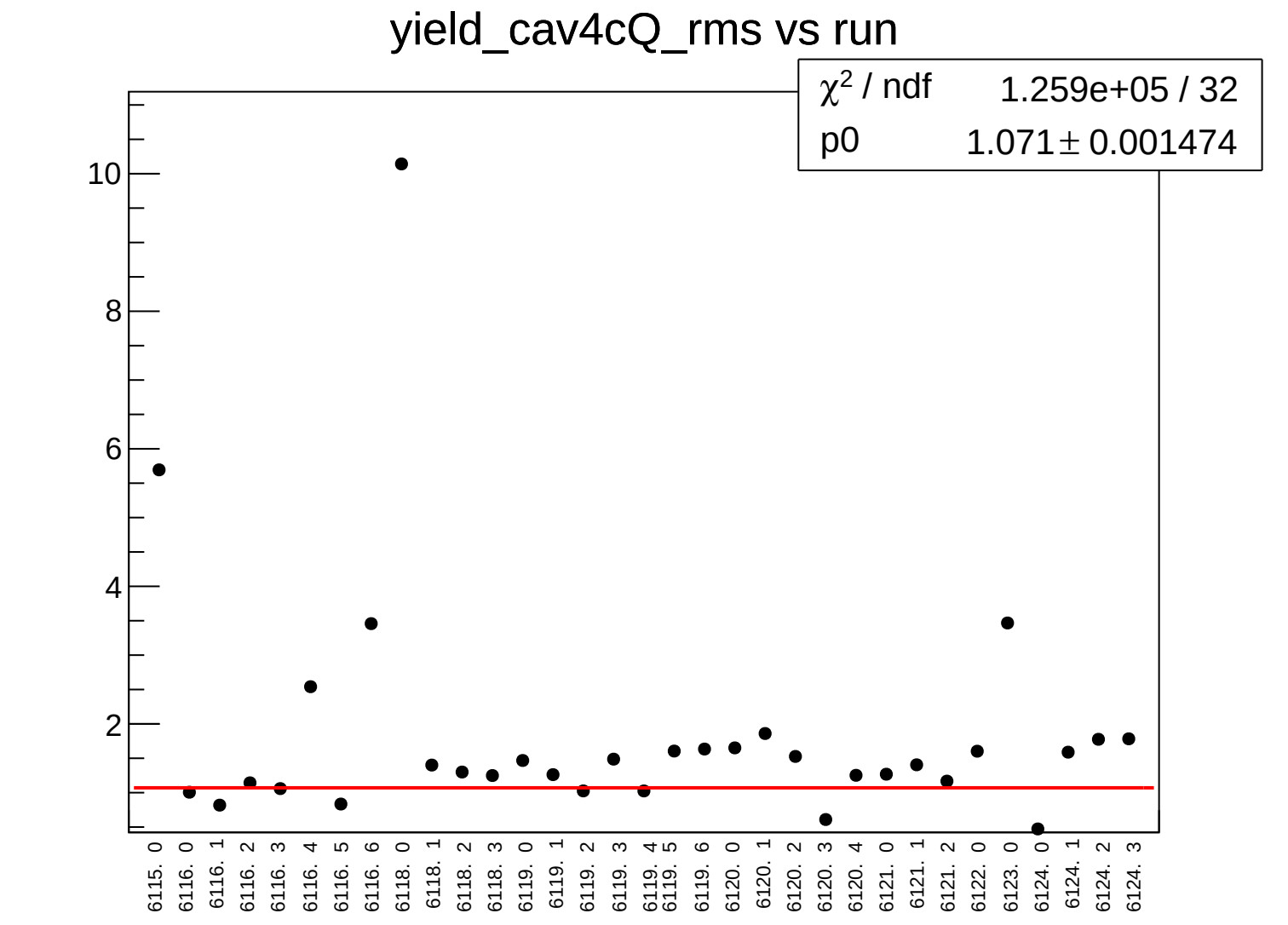

yield_cav4bQ_mean vs run
χ² / ndf 7.92e+05 / 32
p0 145.5 ± 0.002875
148
146
144
142
140
138
136
134
132
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 0.5881
Std Dev 14.37
200
100
0
−100
−200
−300
−400
−500

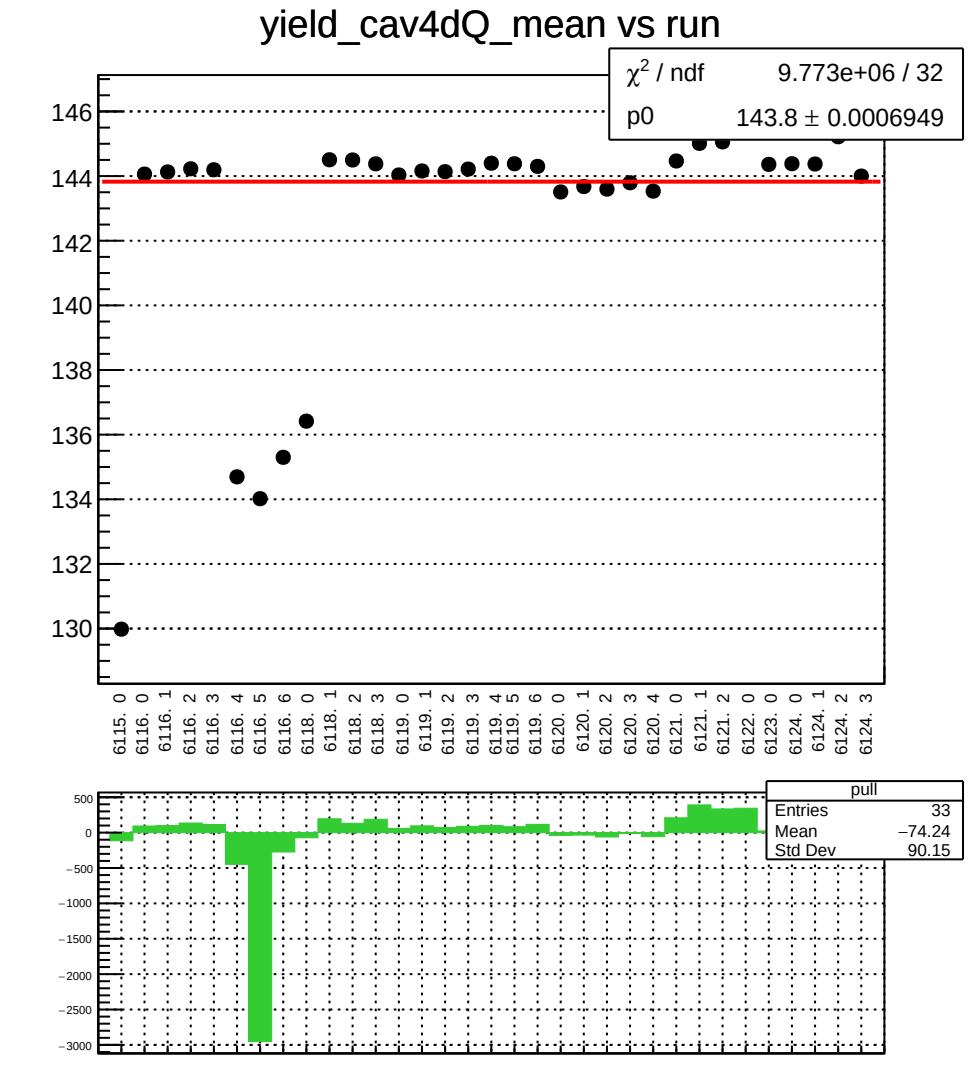

pull1D
Entries 33
Mean 1.315
Std Dev 1.971
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

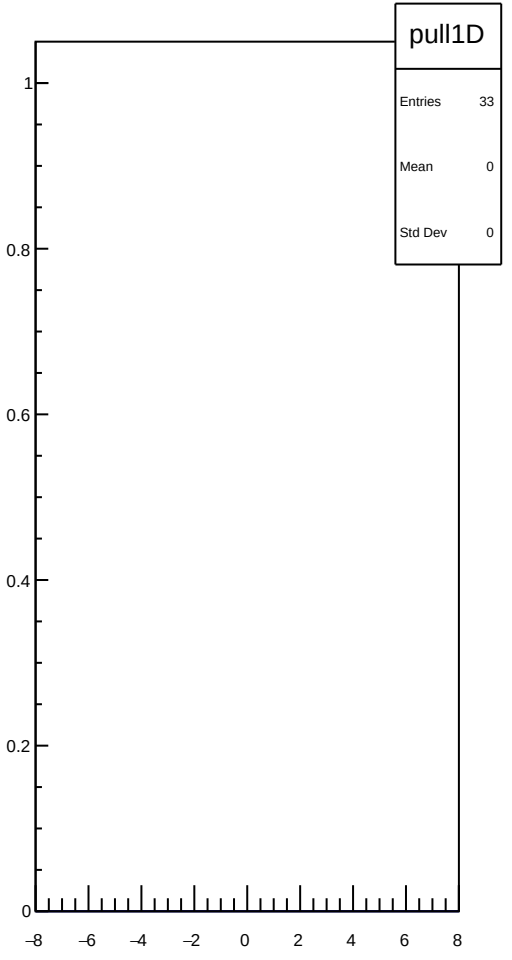

yield_cav4bQ_rms vs run
χ^2 / ndf 1.283e+05 / 32
p0 1.473 ± 0.002033
12
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

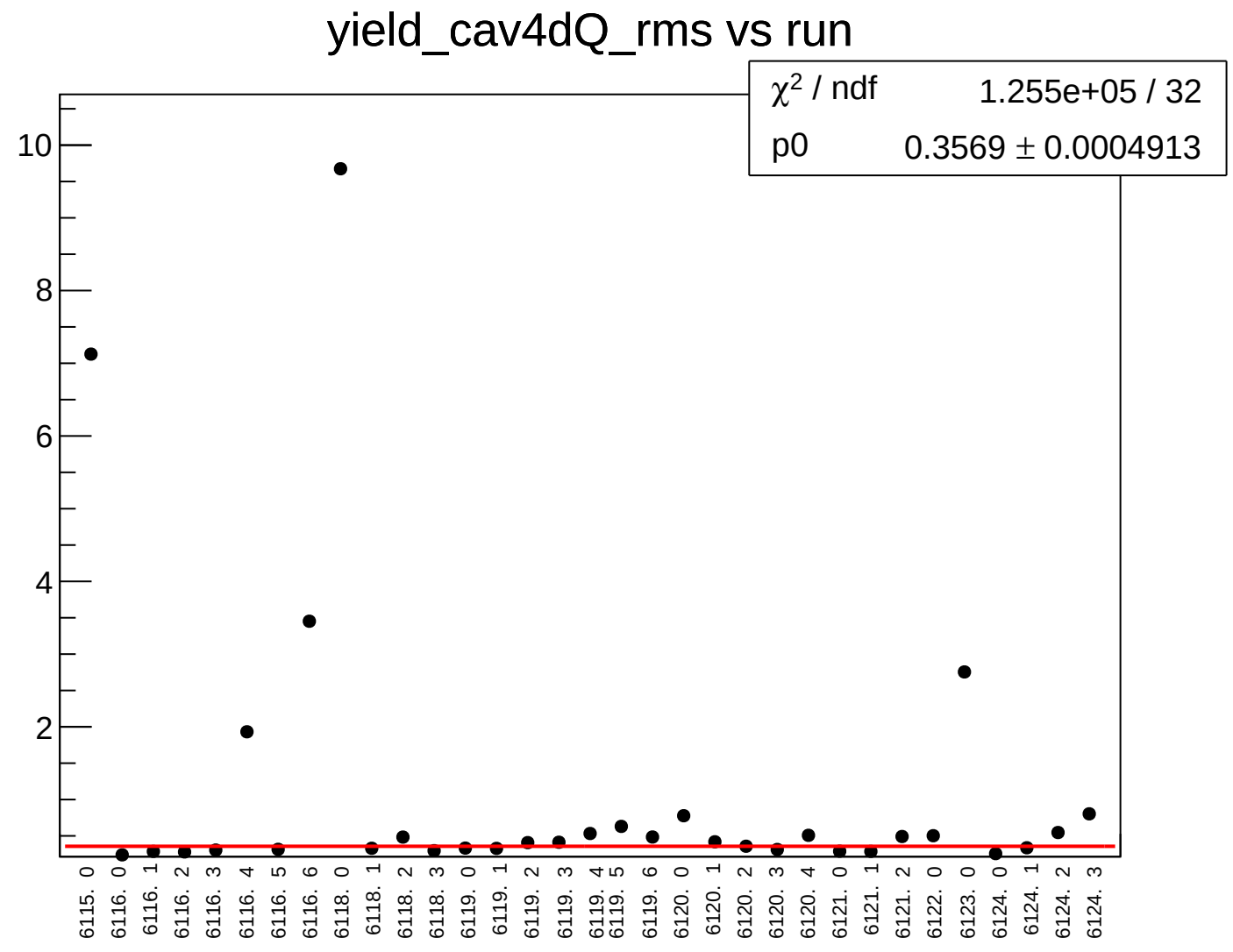

yield_cav4cQ_mean vs run
χ² / ndf 1.496e+06 / 32
p0 145.2 ± 0.002085
148
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −18.19
Std Dev 32.44
200
0
−200
−400
−600
−800
−1000

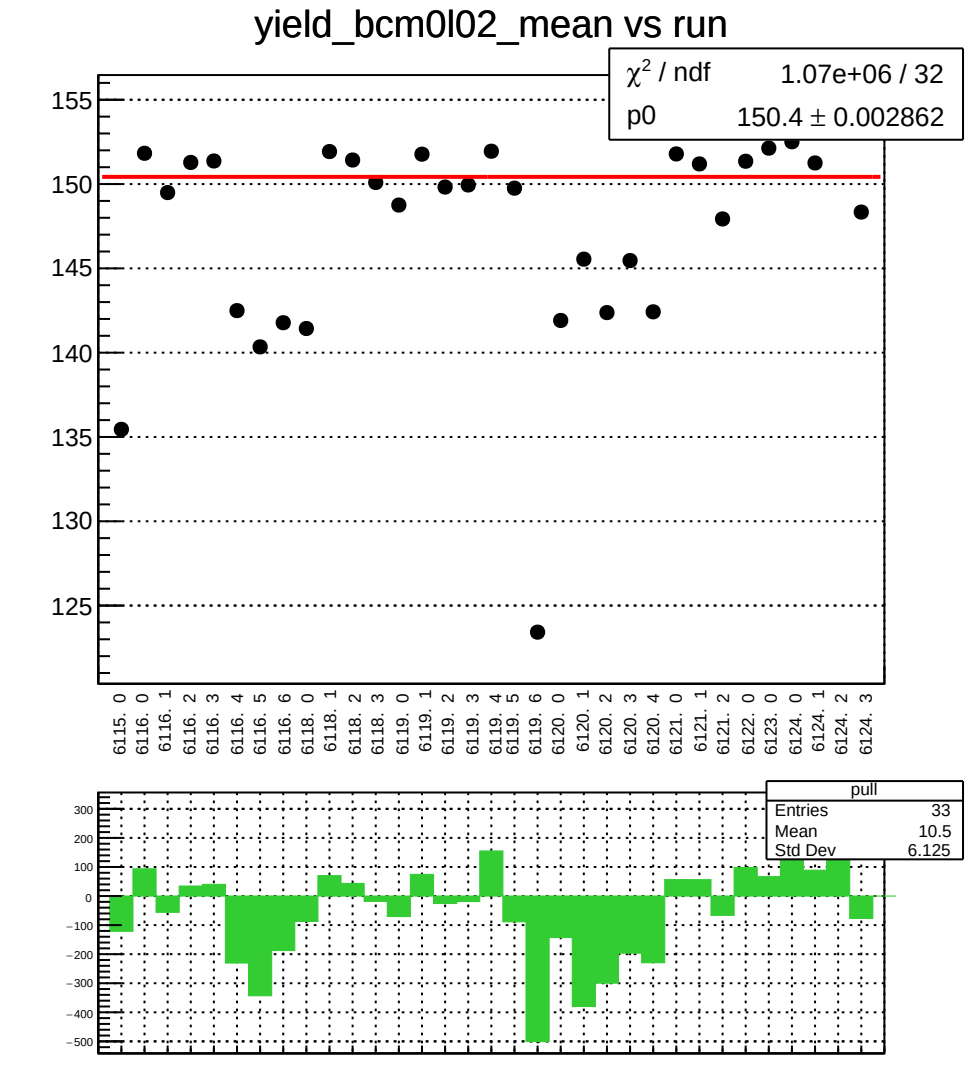

pull1D
Entries 33
Mean 0.2649
Std Dev 4.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

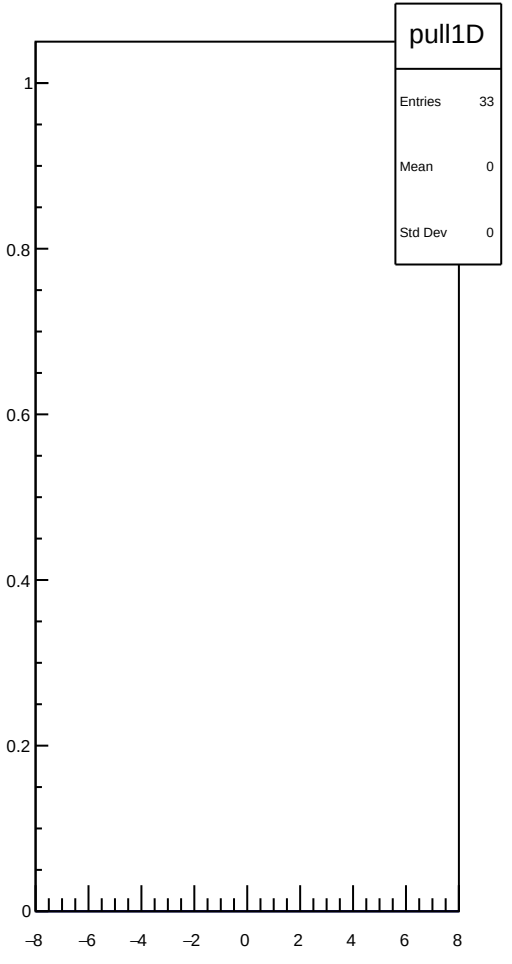

yield_cav4cQ_rms vs run
χ² / ndf 1.259e+05 / 32
p0 1.071 ± 0.001474
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

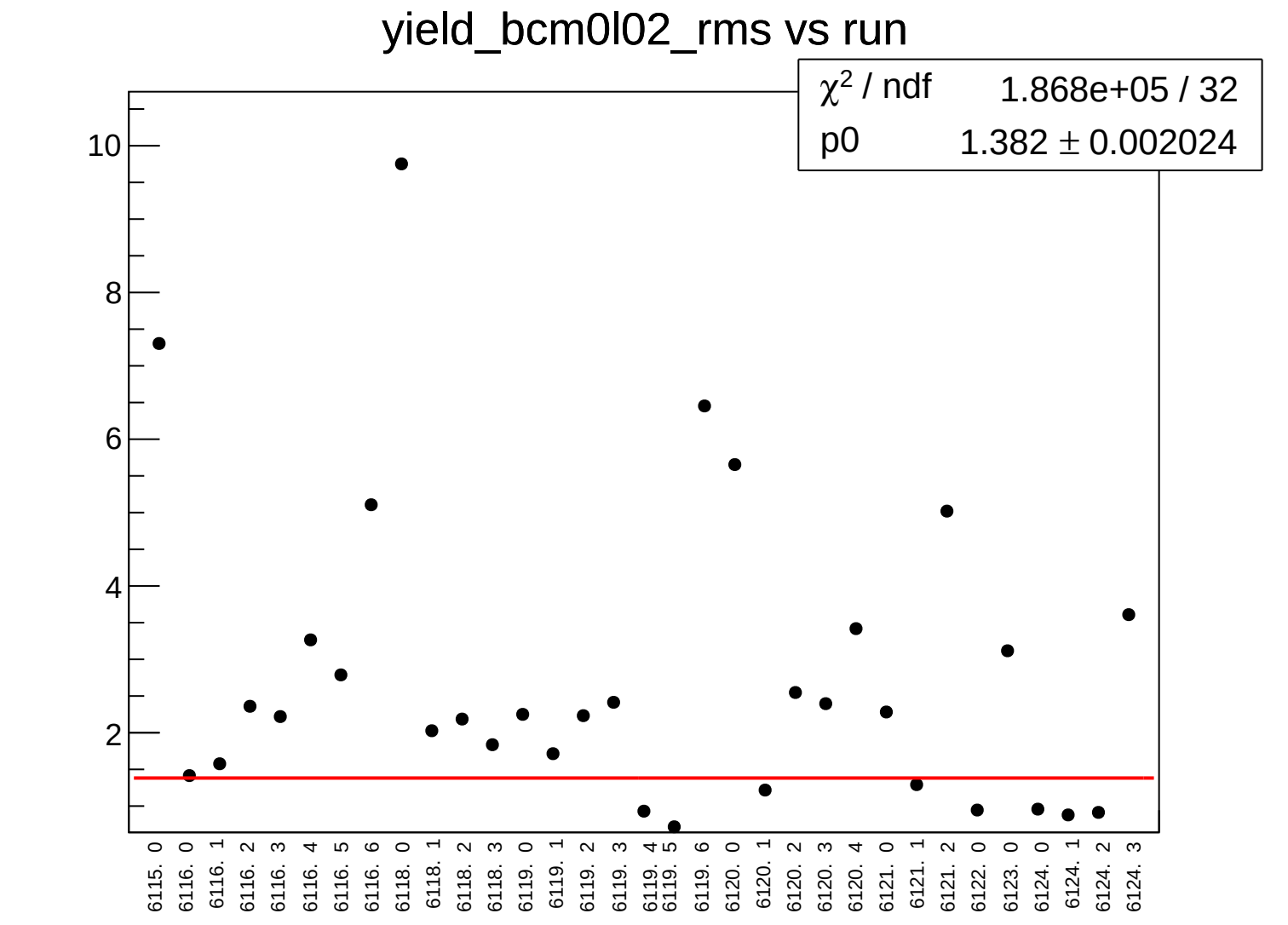

yield_cav4dQ_mean vs run
χ² / ndf 9.773e+06 / 32
p0 143.8 ± 0.0006949
146
144
142
140
138
136
134
132
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −74.24
Std Dev 90.15
500
0
−500
−1000
−1500
−2000
−2500
−3000

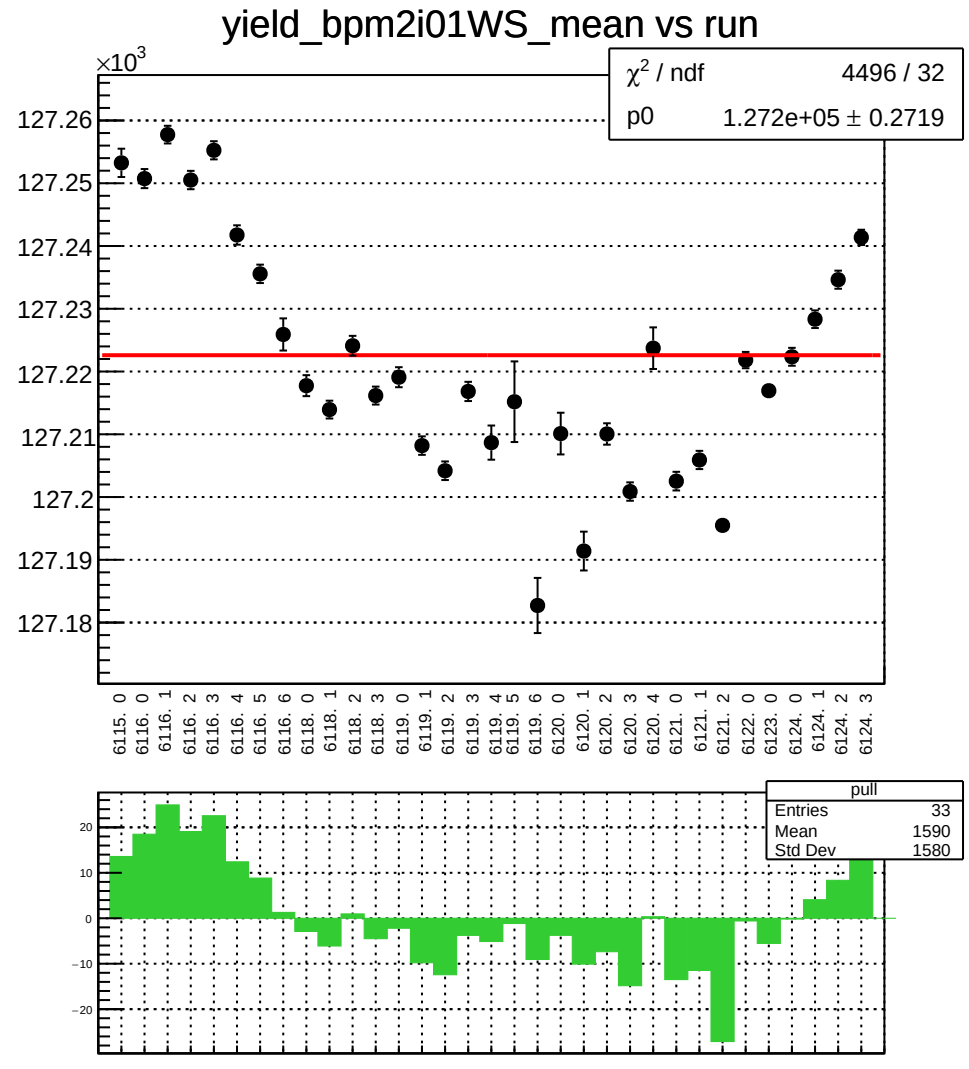

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

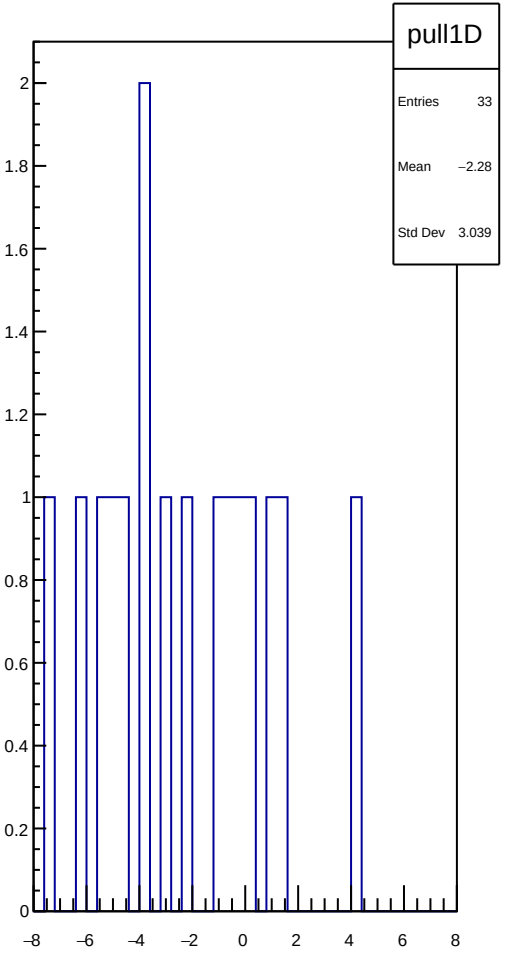

yield_cav4dQ_rms vs run
χ² / ndf 1.255e+05 / 32
p0 0.3569 ± 0.0004913
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

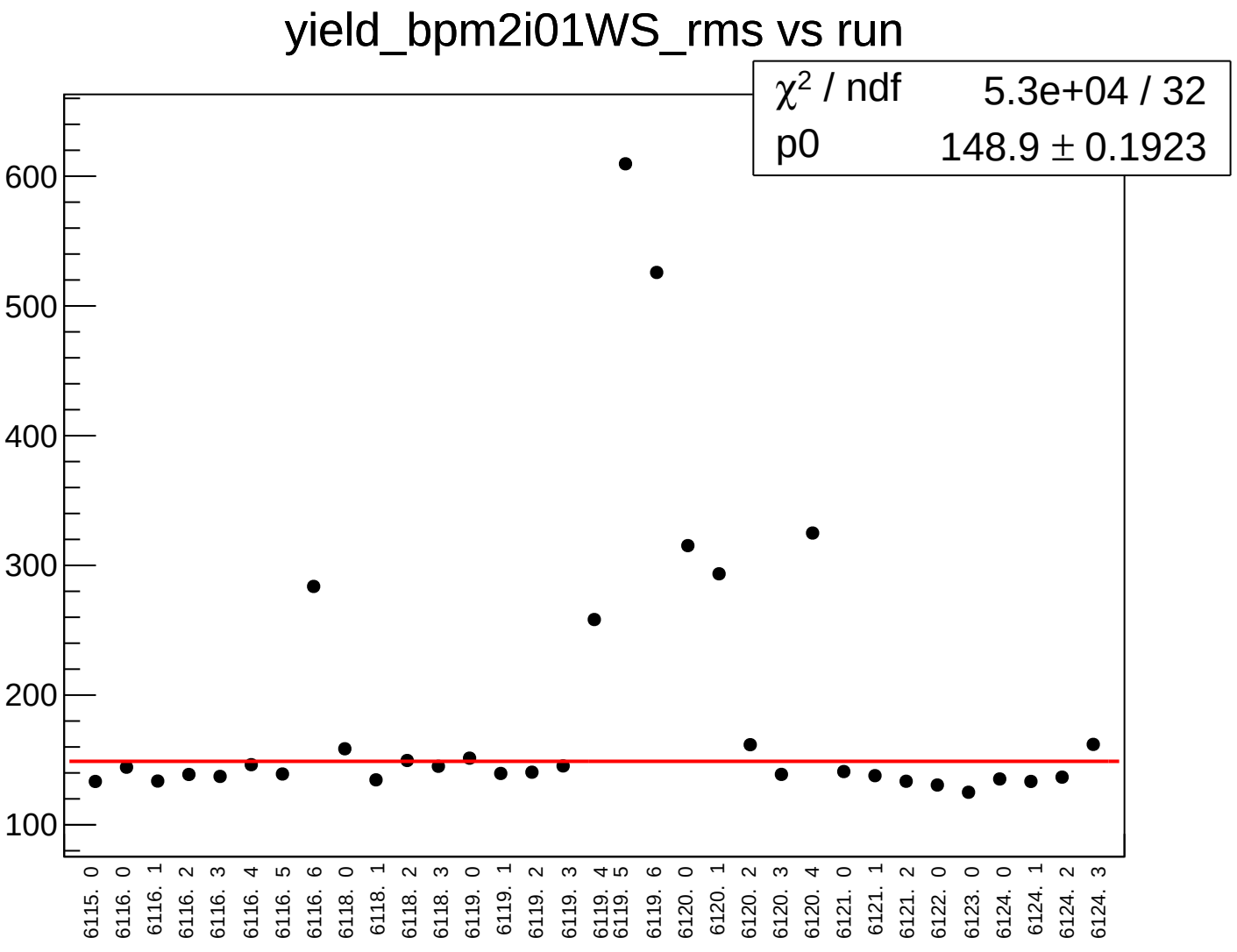

yield_bcm0l02_mean vs run
χ² / ndf 1.07e+06 / 32
p0 150.4 ± 0.002862
155
150
145
140
135
130
125
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 10.5
Std Dev 6.125
300
200
100
0
−100
−200
−300
−400
−500

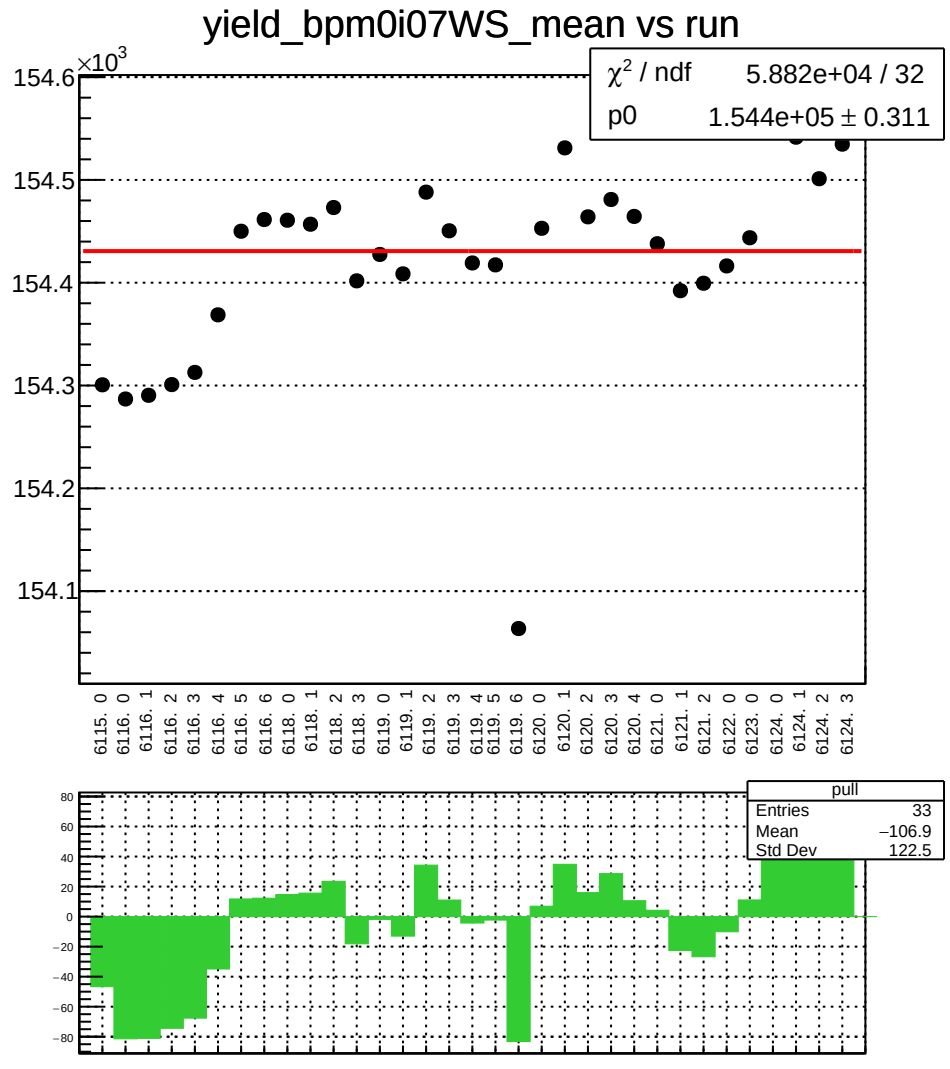

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

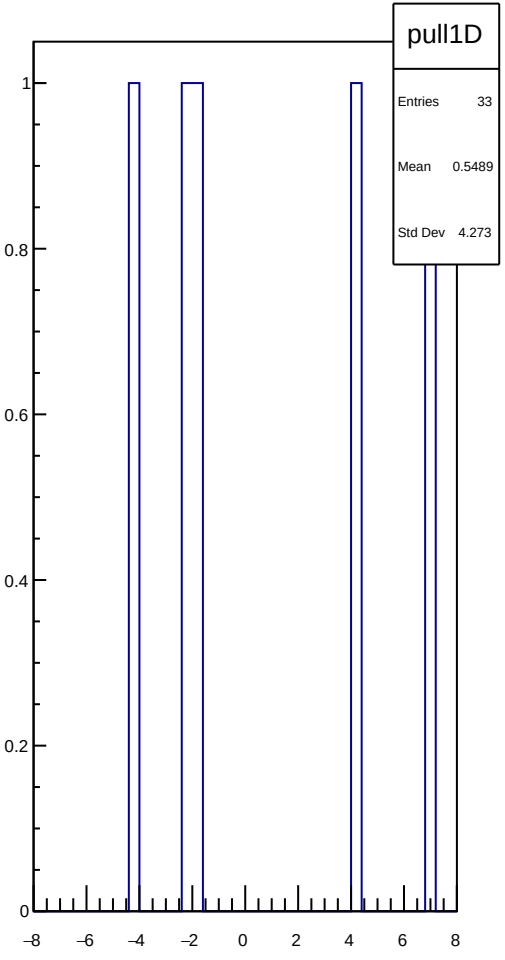

yield_bcm0l02_rms vs run
χ^2 / ndf 1.868e+05 / 32
p0 1.382 ± 0.002024
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

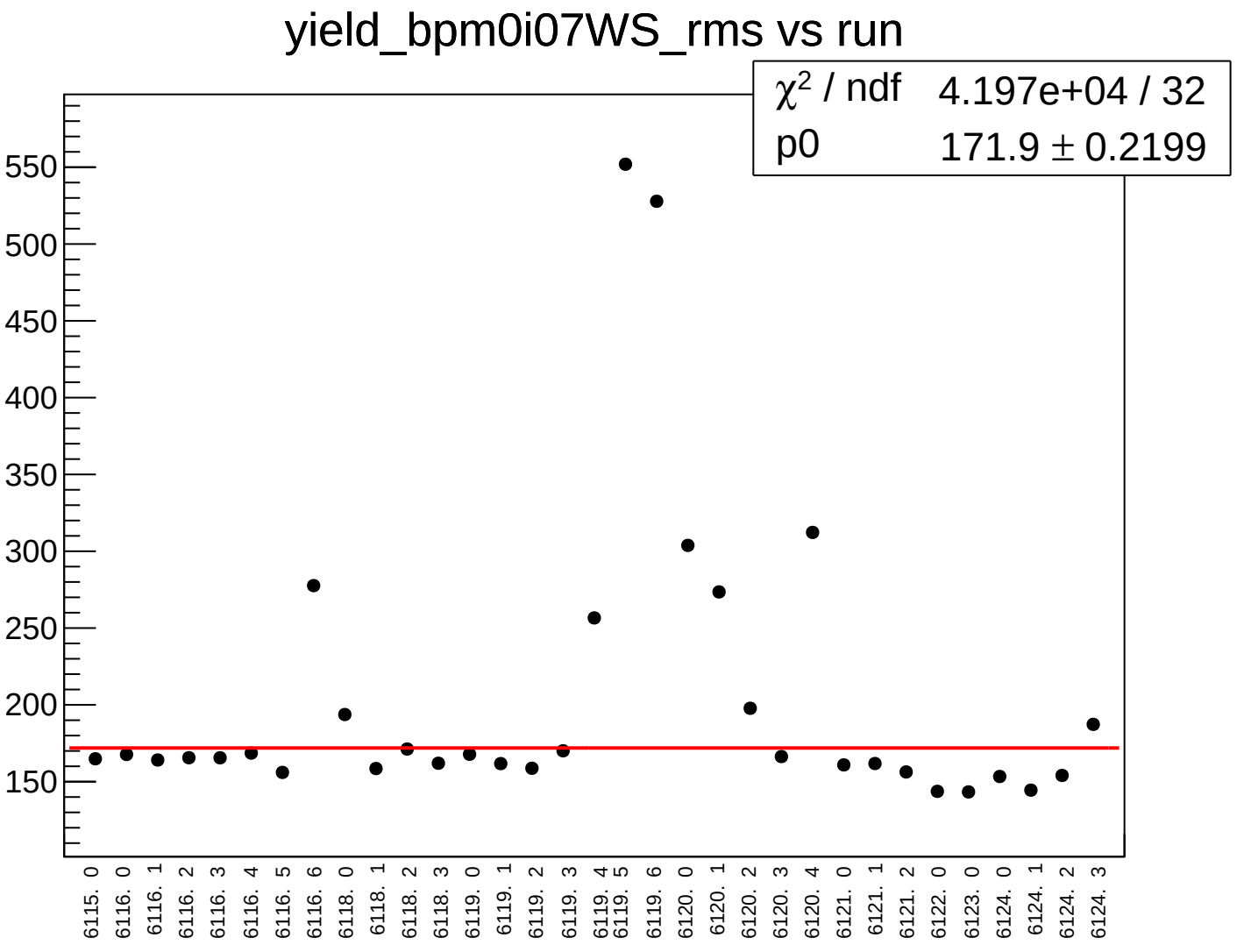

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4496 / 32
p0 1.272e+05 ± 0.2719
127.26
127.25
127.24
127.23
127.22
127.21
127.2
127.19
127.18
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1590
Std Dev 1580
20
10
0
−10
−20

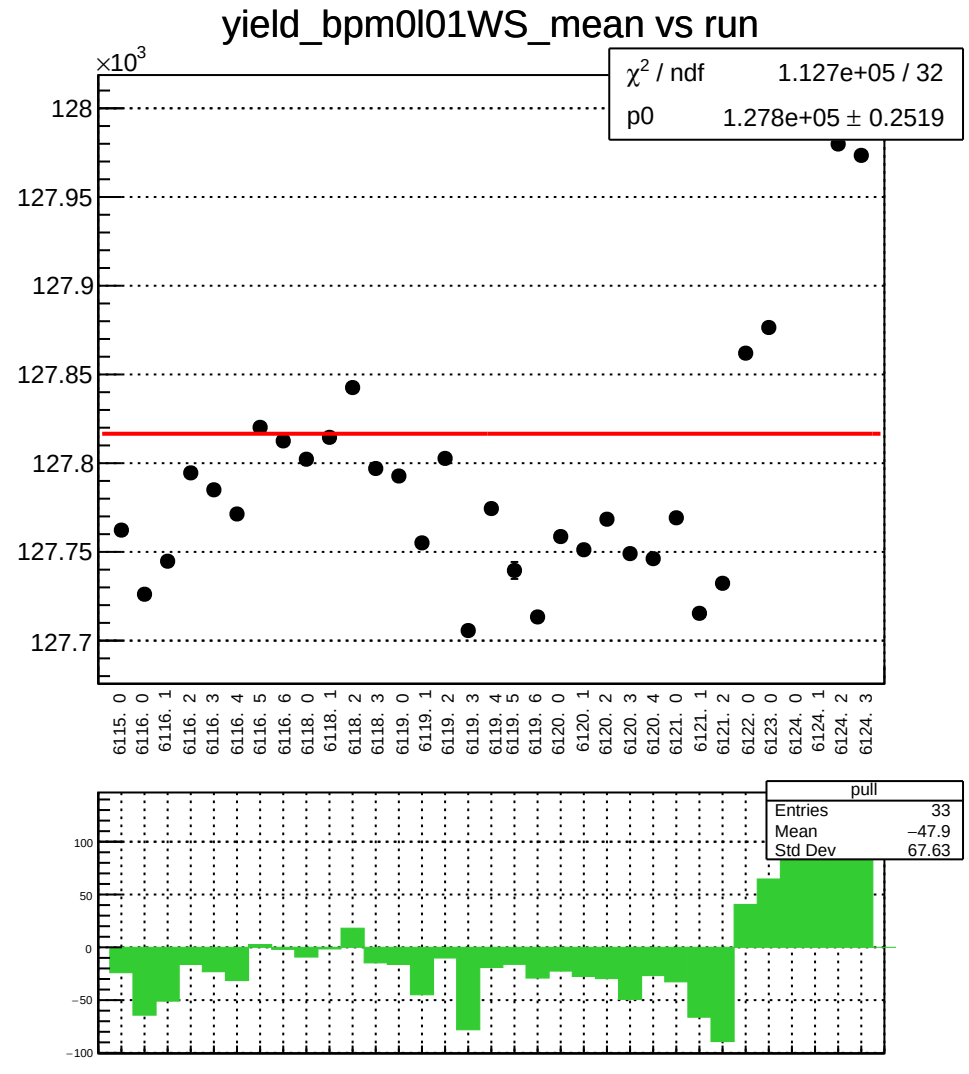

pull1D
Entries 33
Mean −2.28
Std Dev 3.039
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

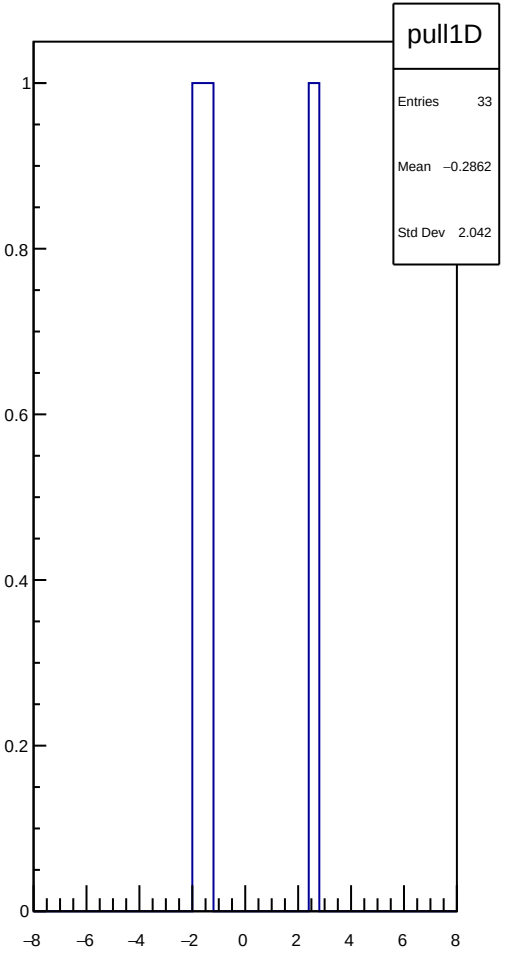

yield_bpm2i01WS_rms vs run
χ² / ndf 5.3e+04 / 32
p0 148.9 ± 0.1923
600
500
400
300
200
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

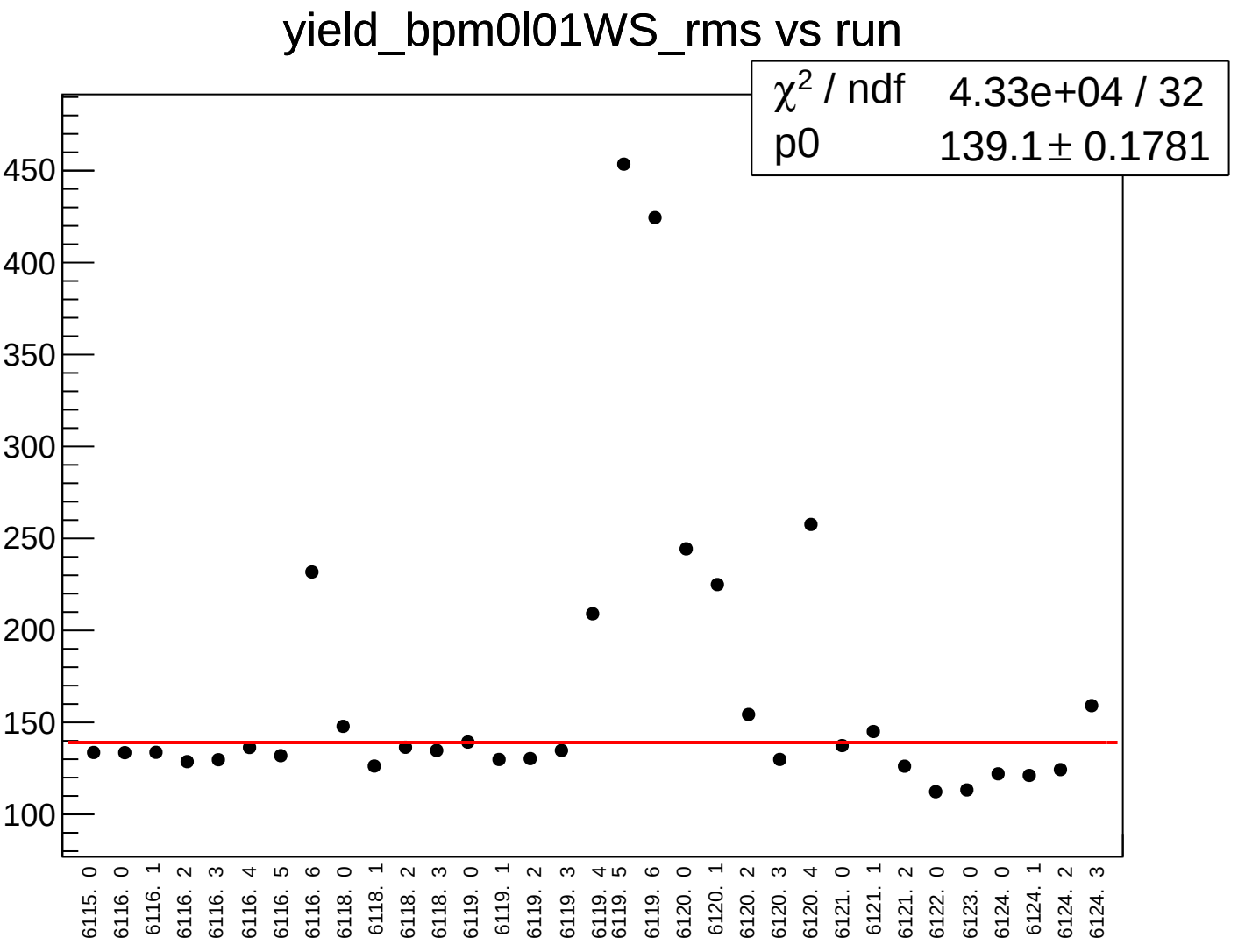

yield_bpm0i07WS_mean vs run
×10^3
154.6
154.5
154.4
154.3
154.2
154.1
χ² / ndf 5.882e+04 / 32
p0 1.544e+05 ± 0.311
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −106.9
Std Dev 122.5
80
60
40
20
0
−20
−40
−60
−80

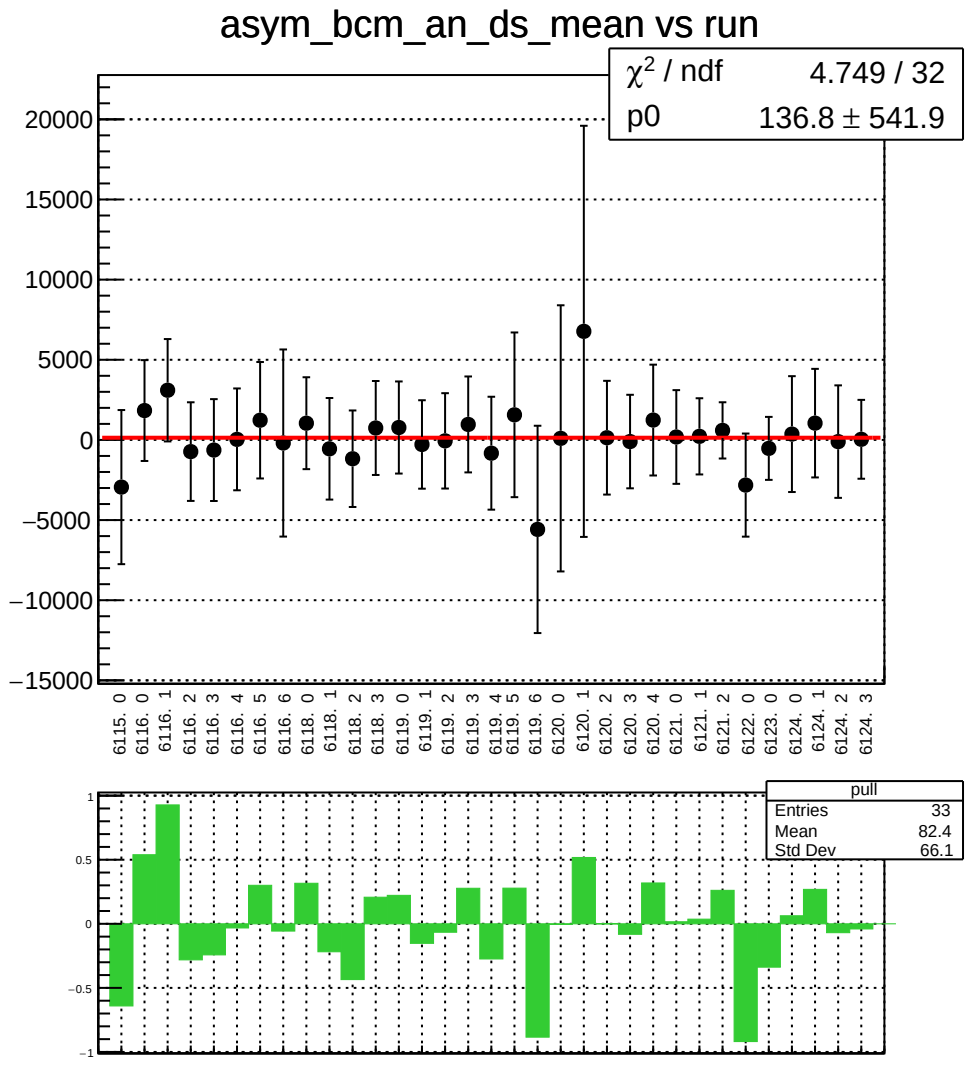

pull1D
Entries 33
Mean 0.5489
Std Dev 4.273
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

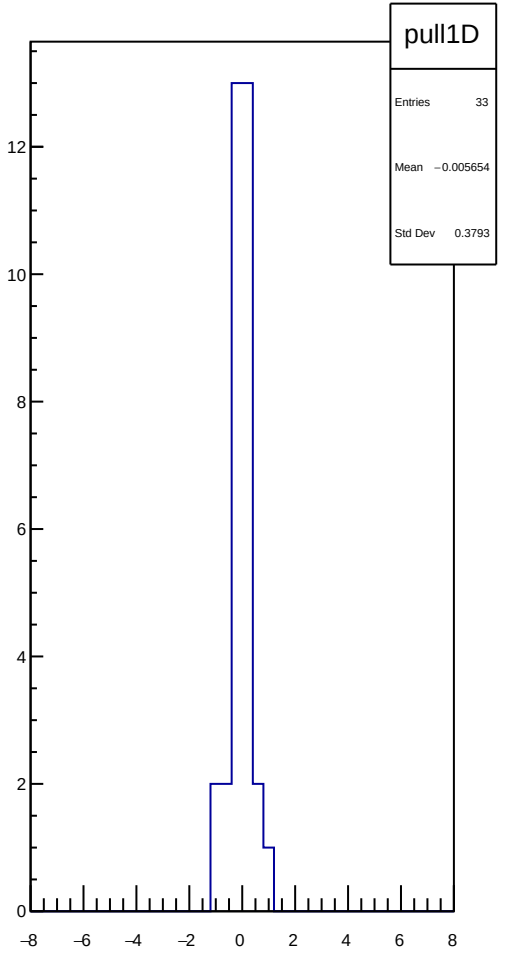

yield_bpm0i07WS_rms vs run
χ² / ndf 4.197e+04 / 32
p0 171.9 ± 0.2199
550
500
450
400
350
300
250
200
150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

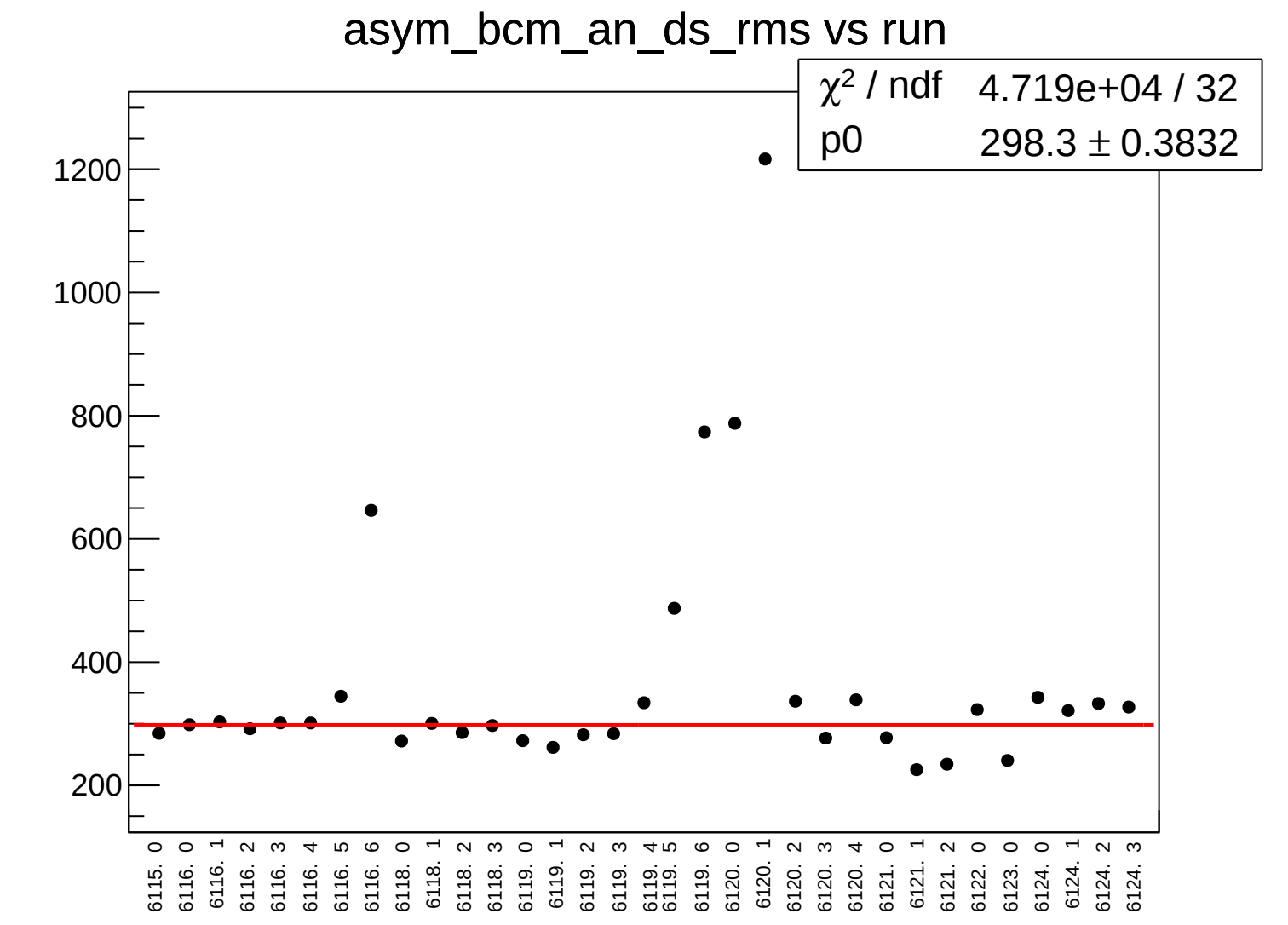

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 1.127e+05 / 32
p0 1.278e+05 ± 0.2519
128
127.95
127.9
127.85
127.8
127.75
127.7
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −47.9
Std Dev 67.63
100
50
0
−50
−100

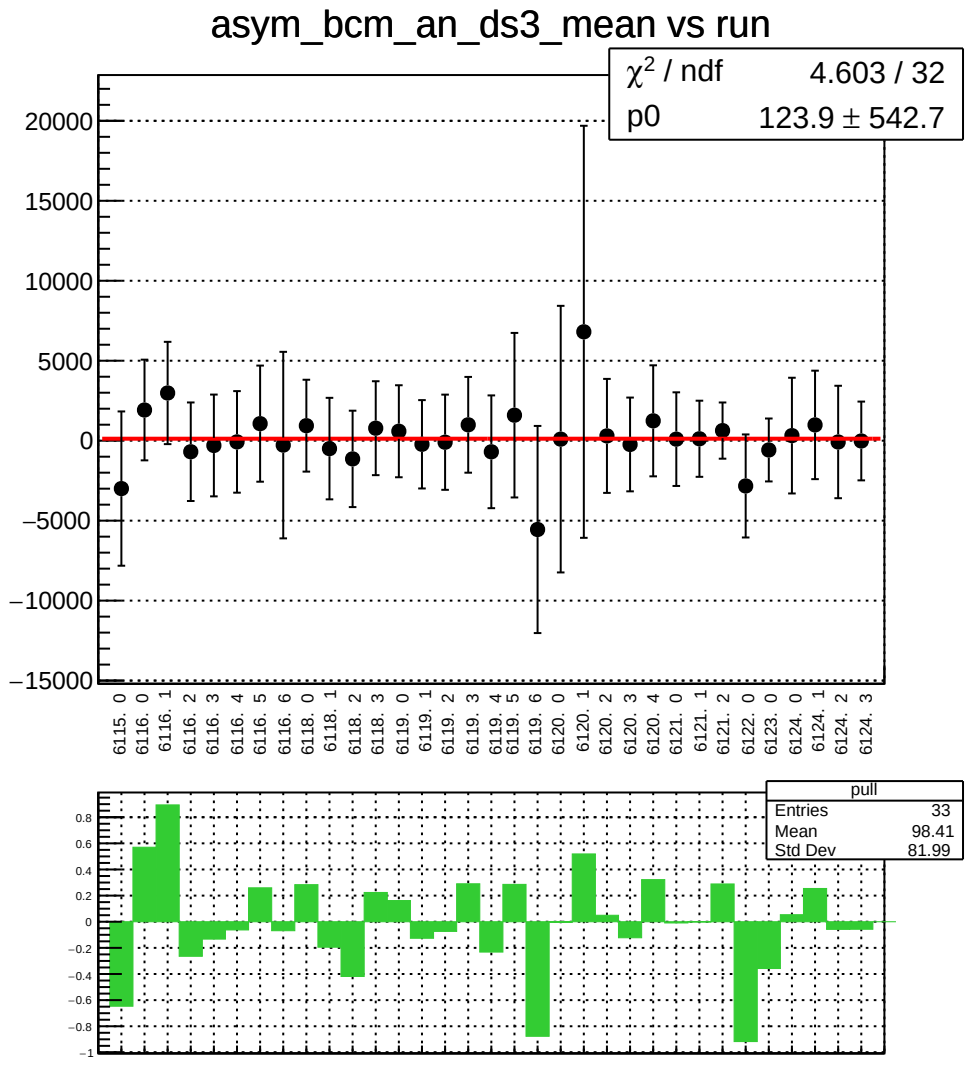

pull1D
Entries 33
Mean −0.2862
Std Dev 2.042
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

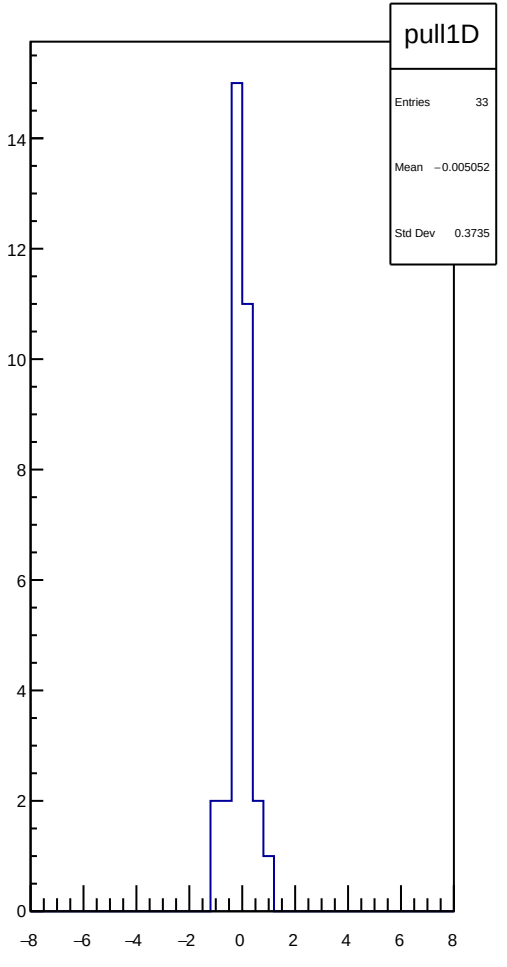

yield_bpm0l01WS_rms vs run
χ² / ndf 4.33e+04 / 32
p0 139.1 ± 0.1781
450
400
350
300
250
200
150
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

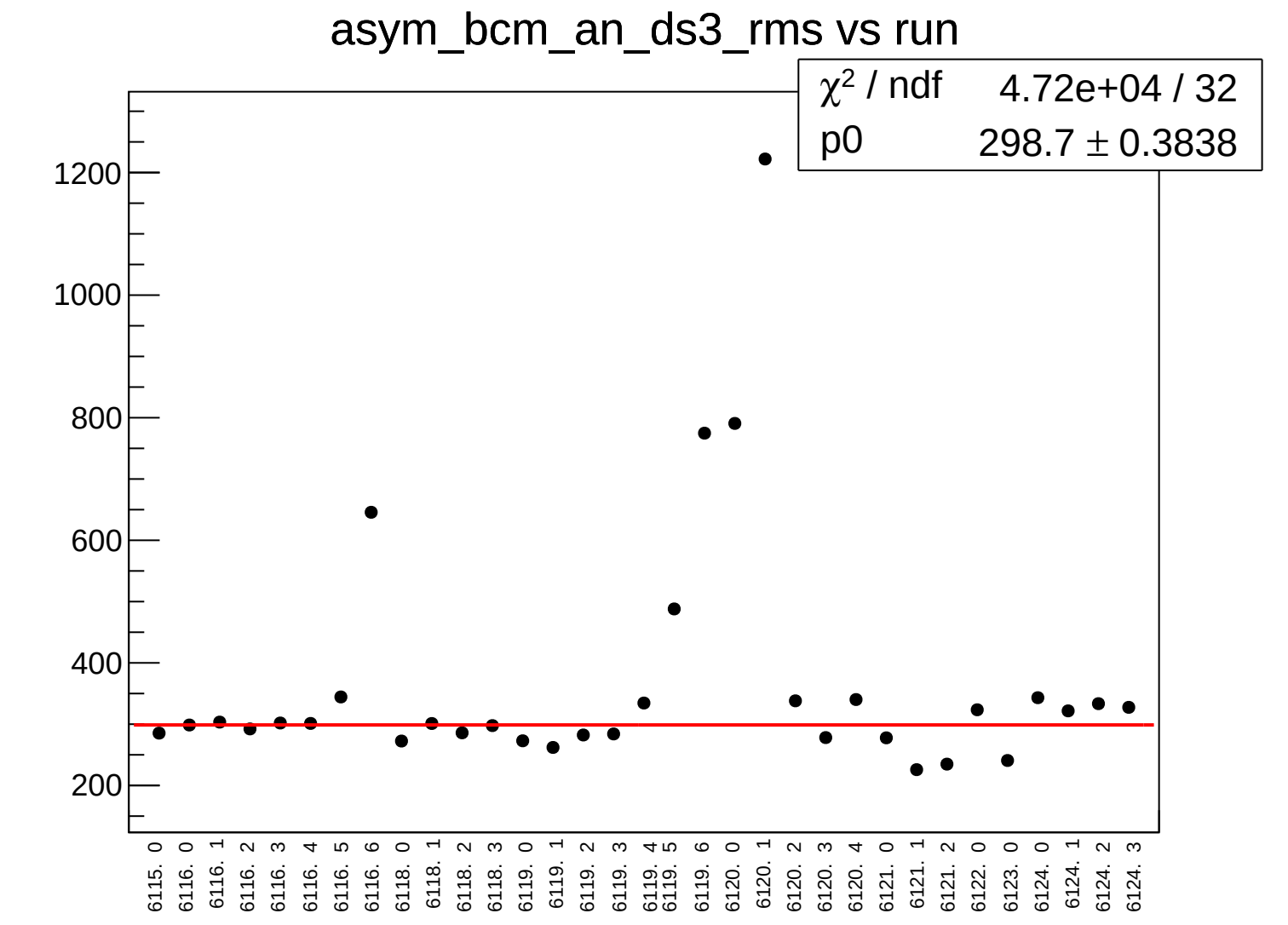

asym_bcm_an_ds_mean vs run
χ² / ndf 4.749 / 32
p0 136.8 ± 541.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 82.4
Std Dev 66.1
1
0.5
0
−0.5
−1

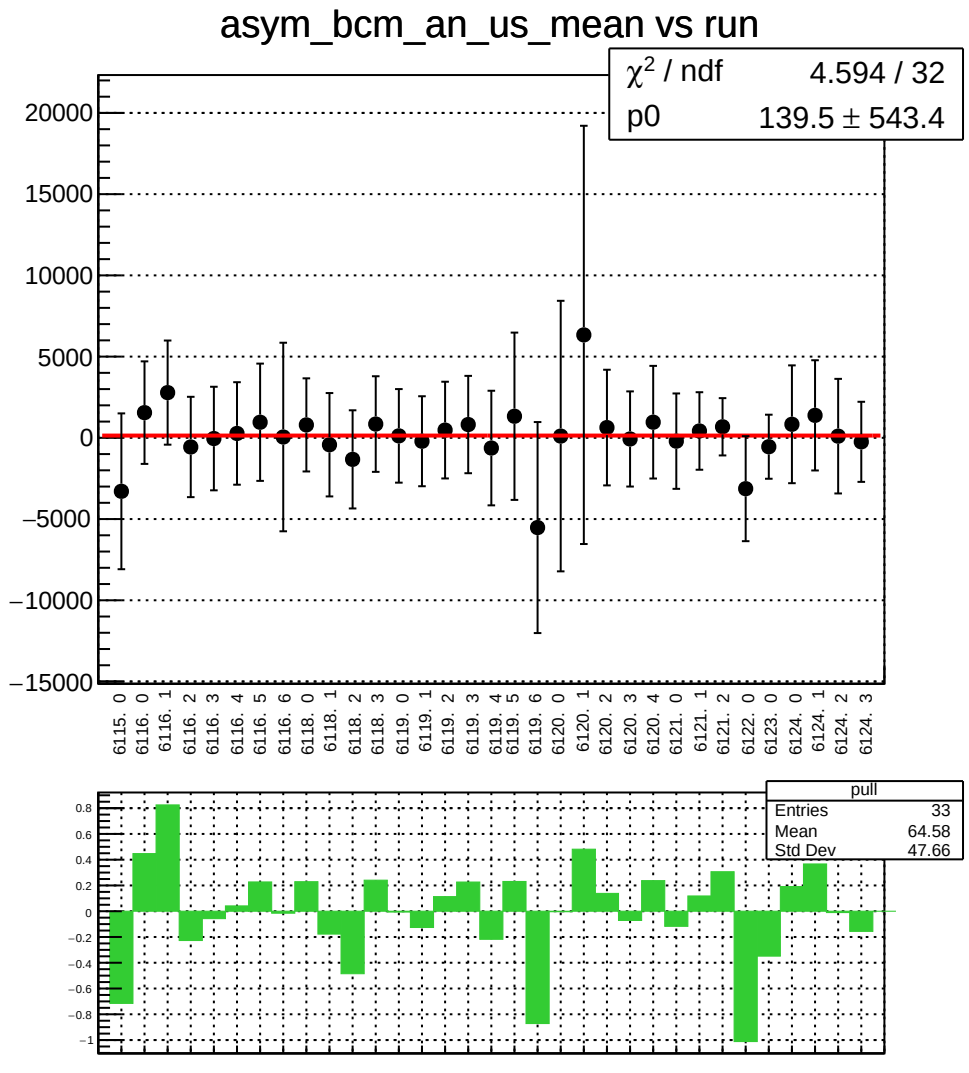

pull1D
Entries 33
Mean −0.005654
Std Dev 0.3793
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

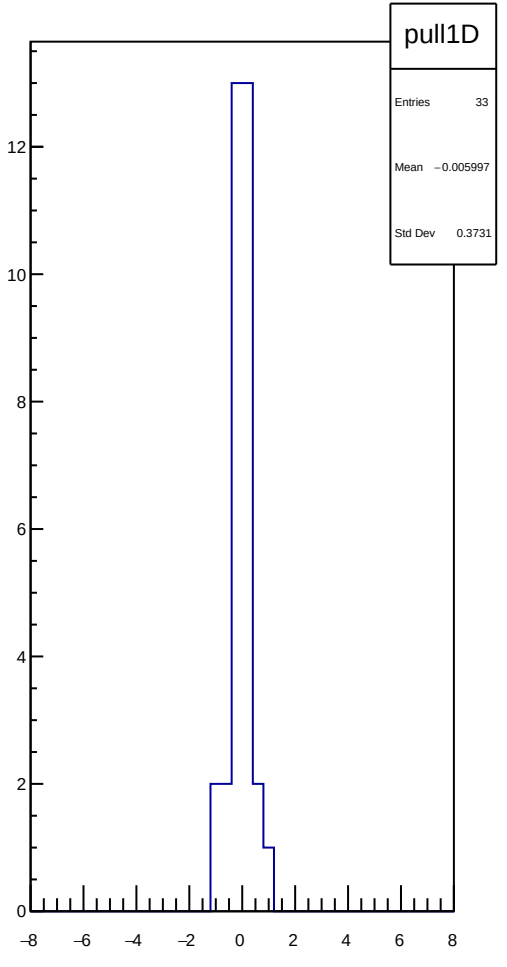

asym_bcm_an_ds_rms vs run
χ² / ndf 4.719e+04 / 32
p0 298.3 ± 0.3832
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

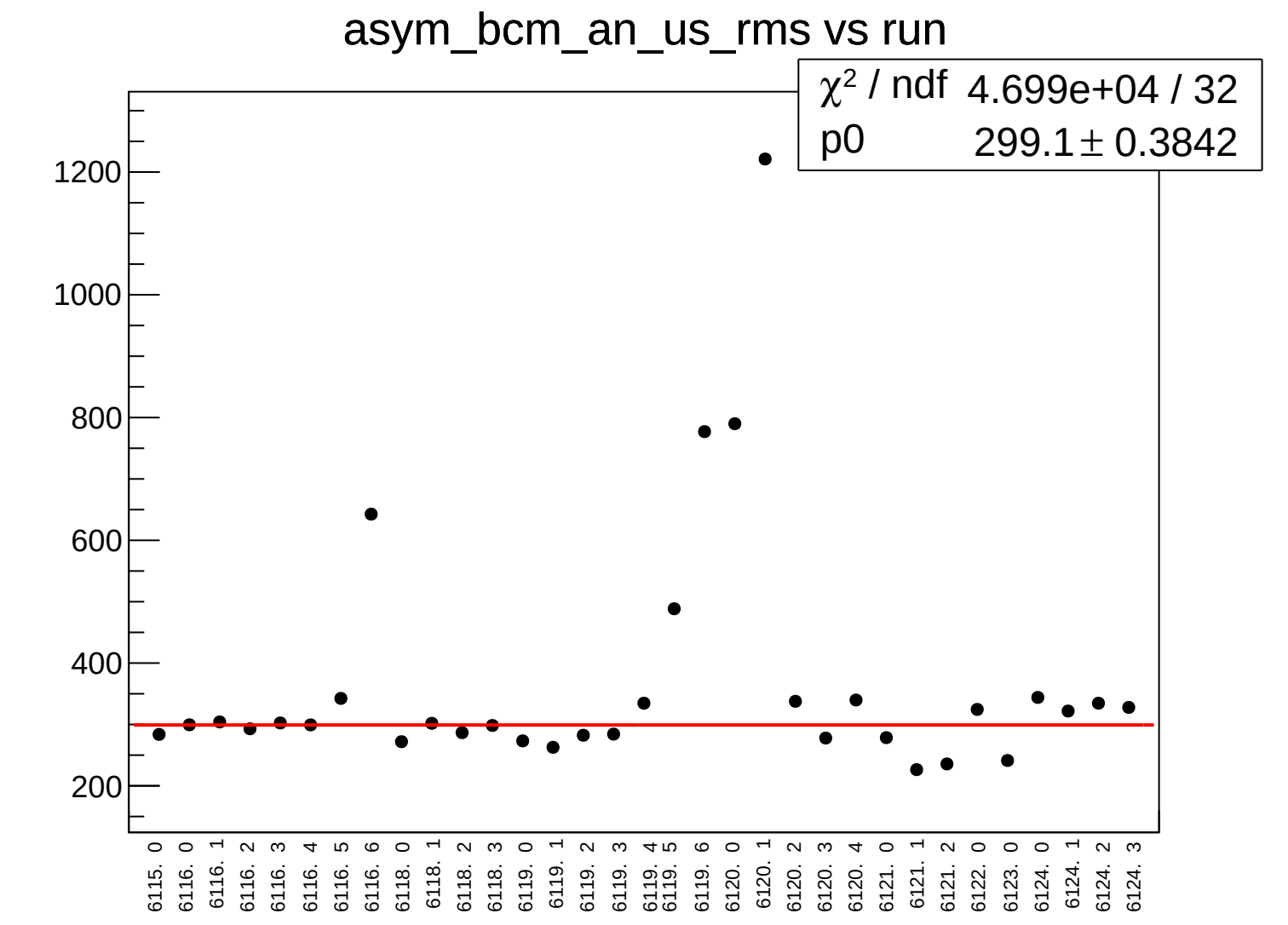

asym_bcm_an_ds3_mean vs run
χ² / ndf 4.603 / 32
p0 123.9 ± 542.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 98.41
Std Dev 81.99
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

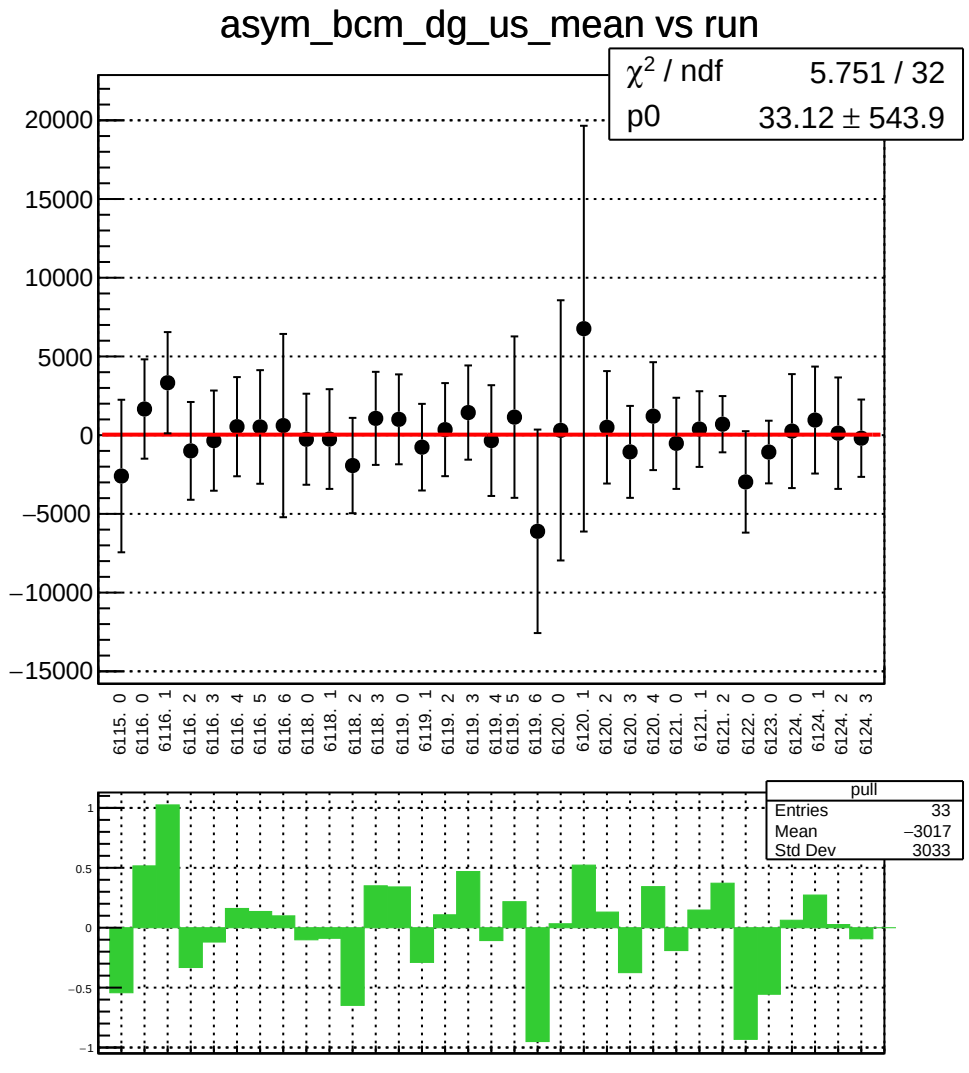

pull1D
Entries 33
Mean −0.005052
Std Dev 0.3735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

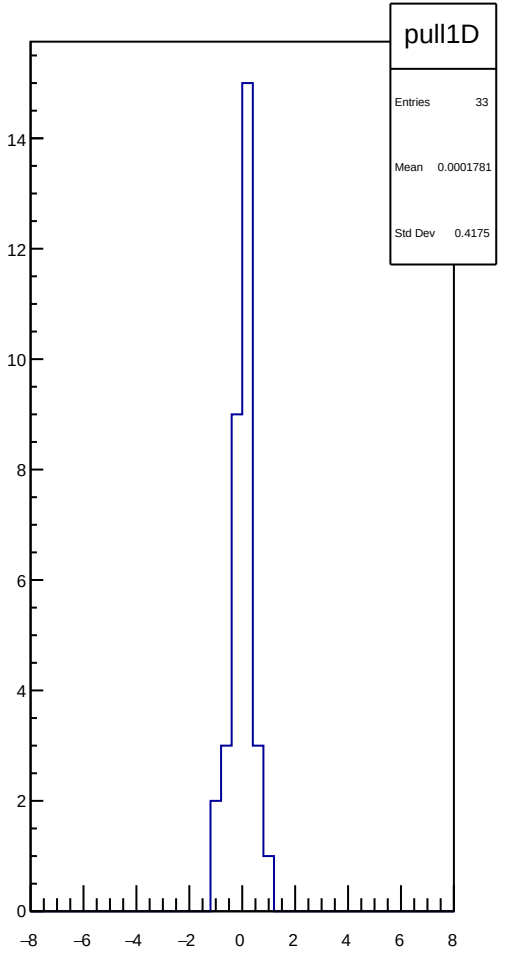

asym_bcm_an_ds3_rms vs run
χ² / ndf 4.72e+04 / 32
p0 298.7 ± 0.3838
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

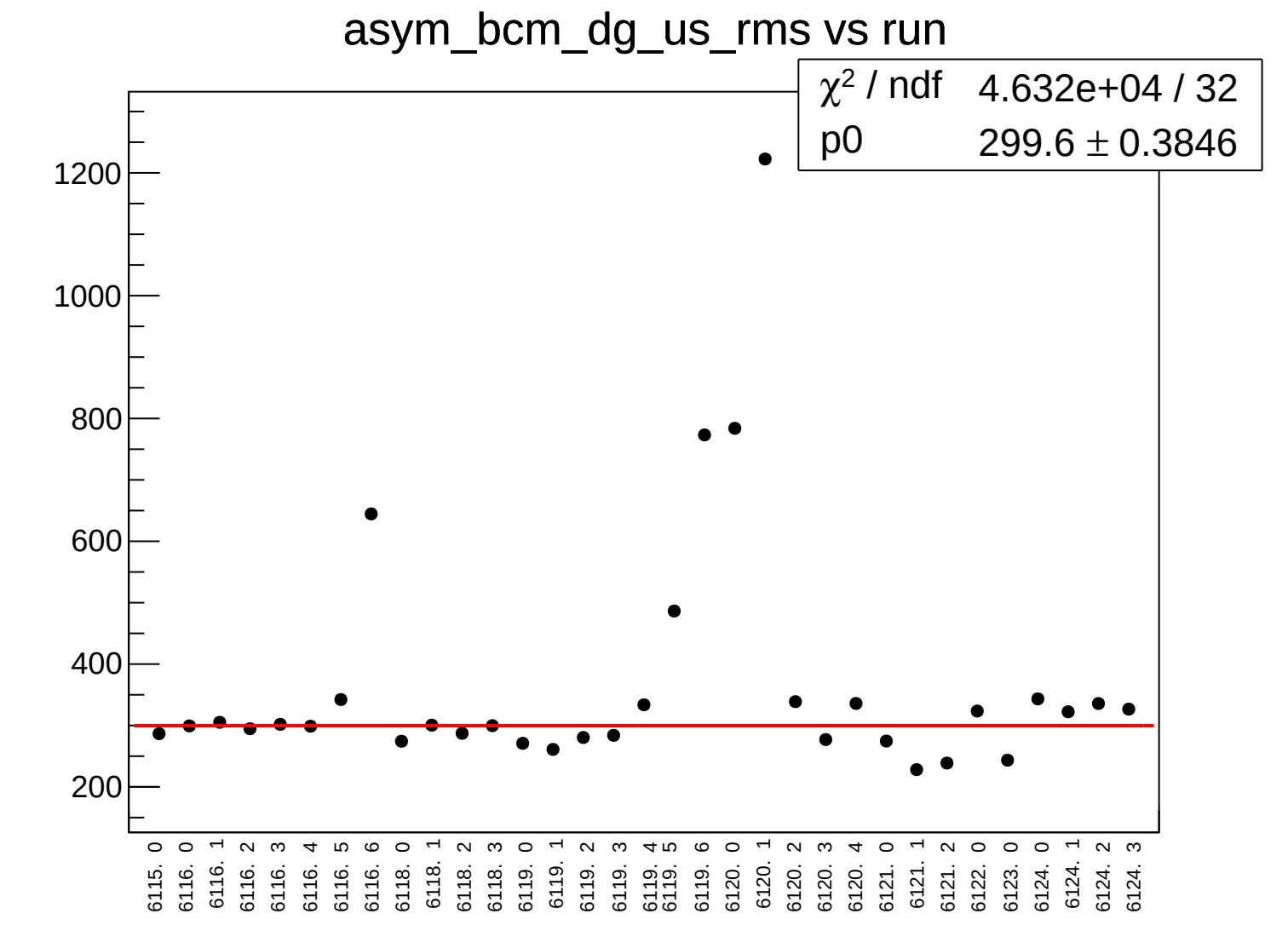

asym_bcm_an_us_mean vs run
χ² / ndf 4.594 / 32
p0 139.5 ± 543.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 64.58
Std Dev 47.66
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

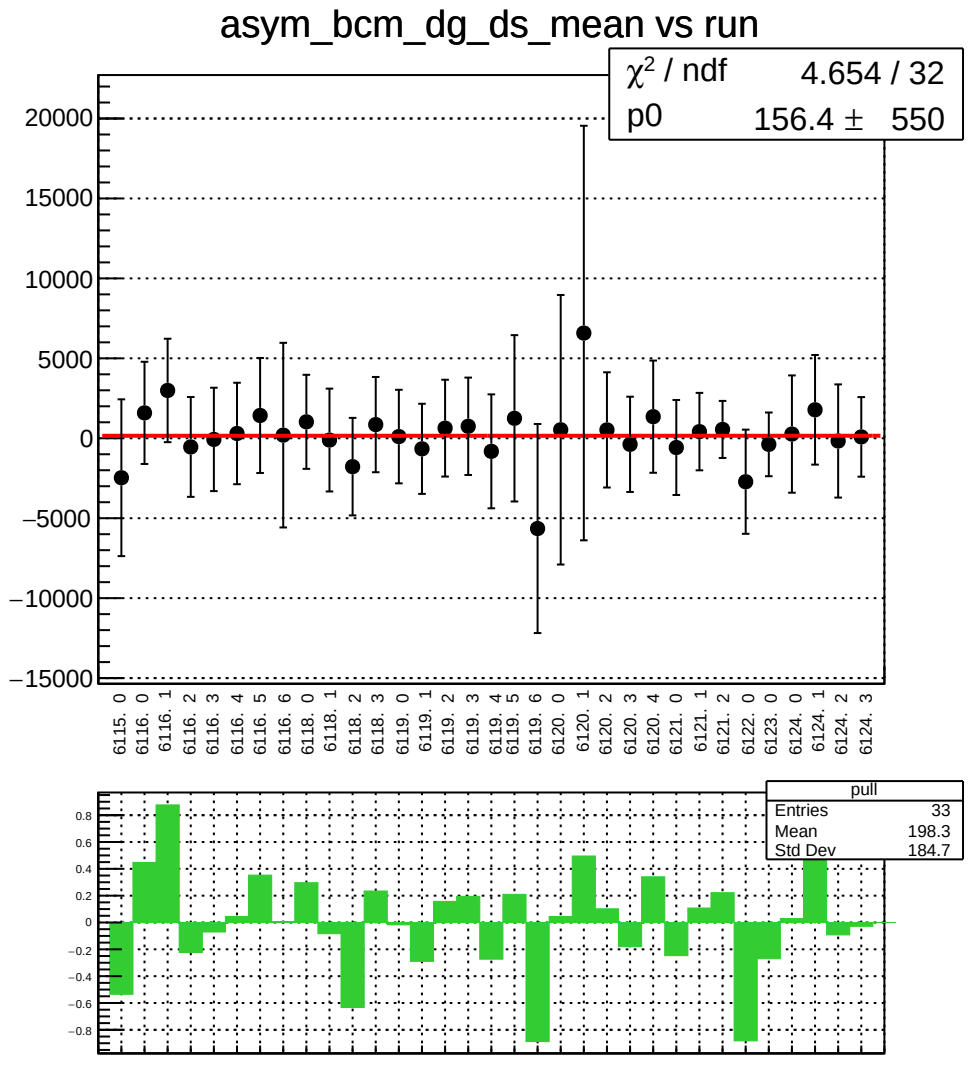

pull1D
Entries 33
Mean −0.005997
Std Dev 0.3731
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

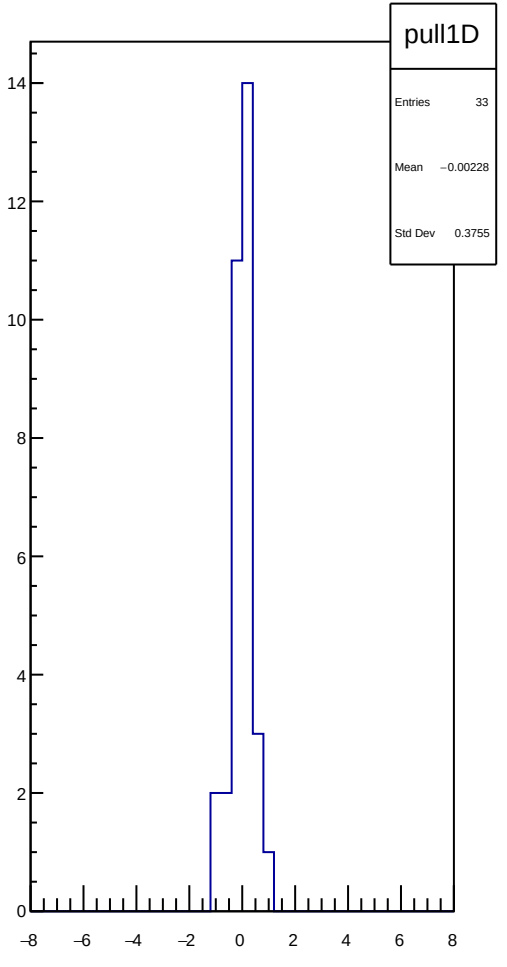

asym_bcm_an_us_rms vs run
χ² / ndf 4.699e+04 / 32
p0 299.1 ± 0.3842
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

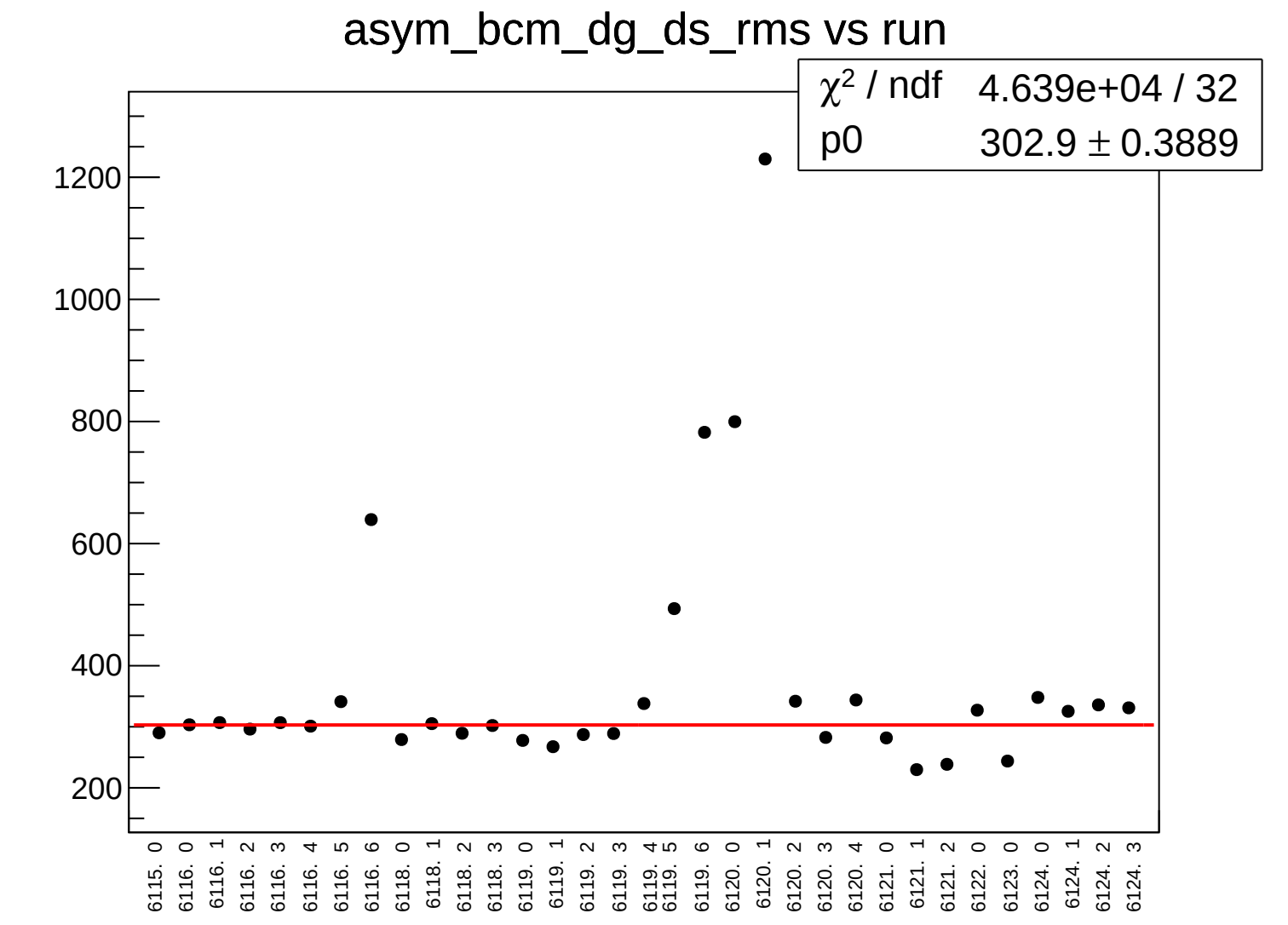

asym_bcm_dg_us_mean vs run
χ² / ndf 5.751 / 32
p0 33.12 ± 543.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −3017
Std Dev 3033
1
0.5
0
−0.5
−1

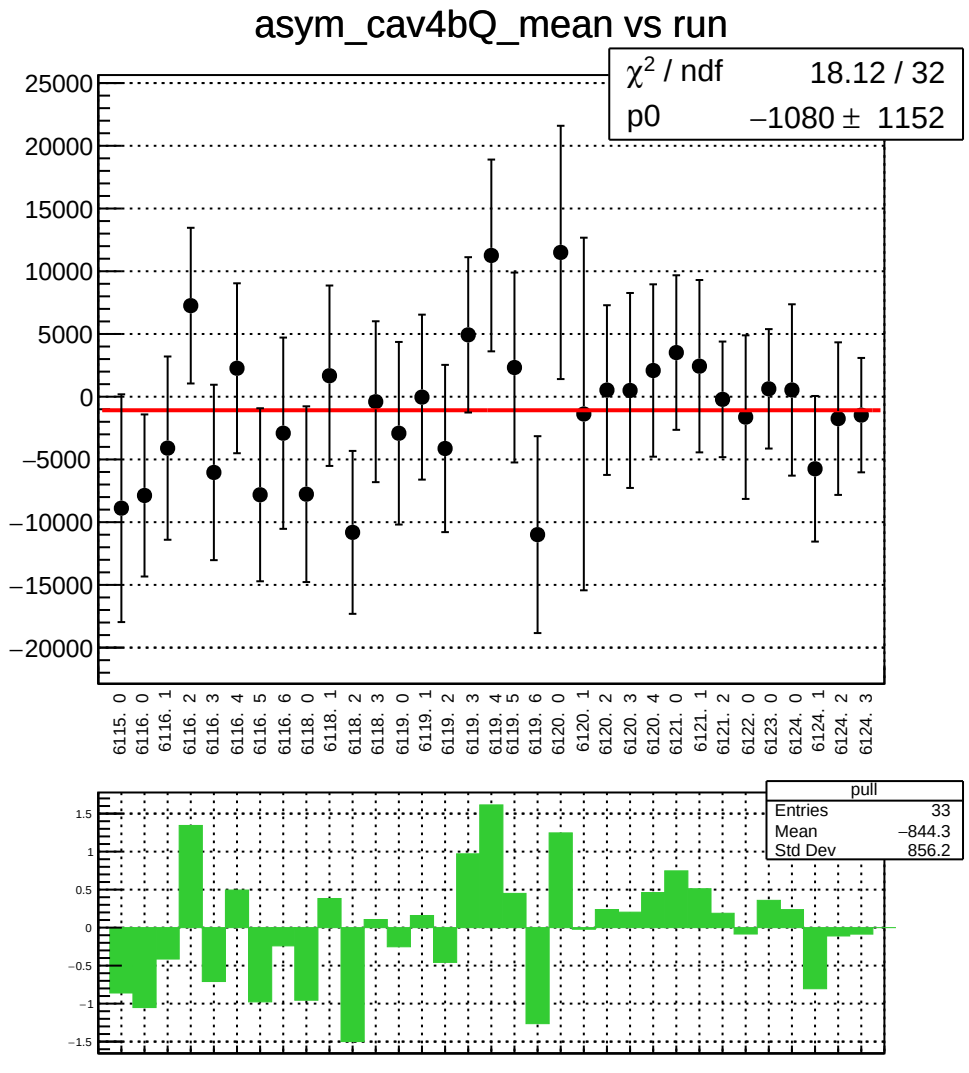

pull1D
Entries 33
Mean 0.0001781
Std Dev 0.4175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

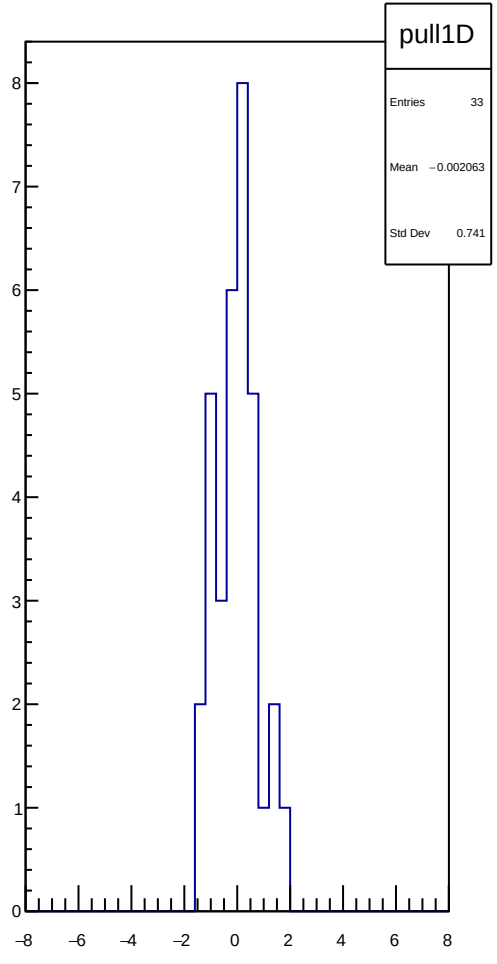

asym_bcm_dg_us_rms vs run
χ² / ndf 4.632e+04 / 32
p0 299.6 ± 0.3846
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

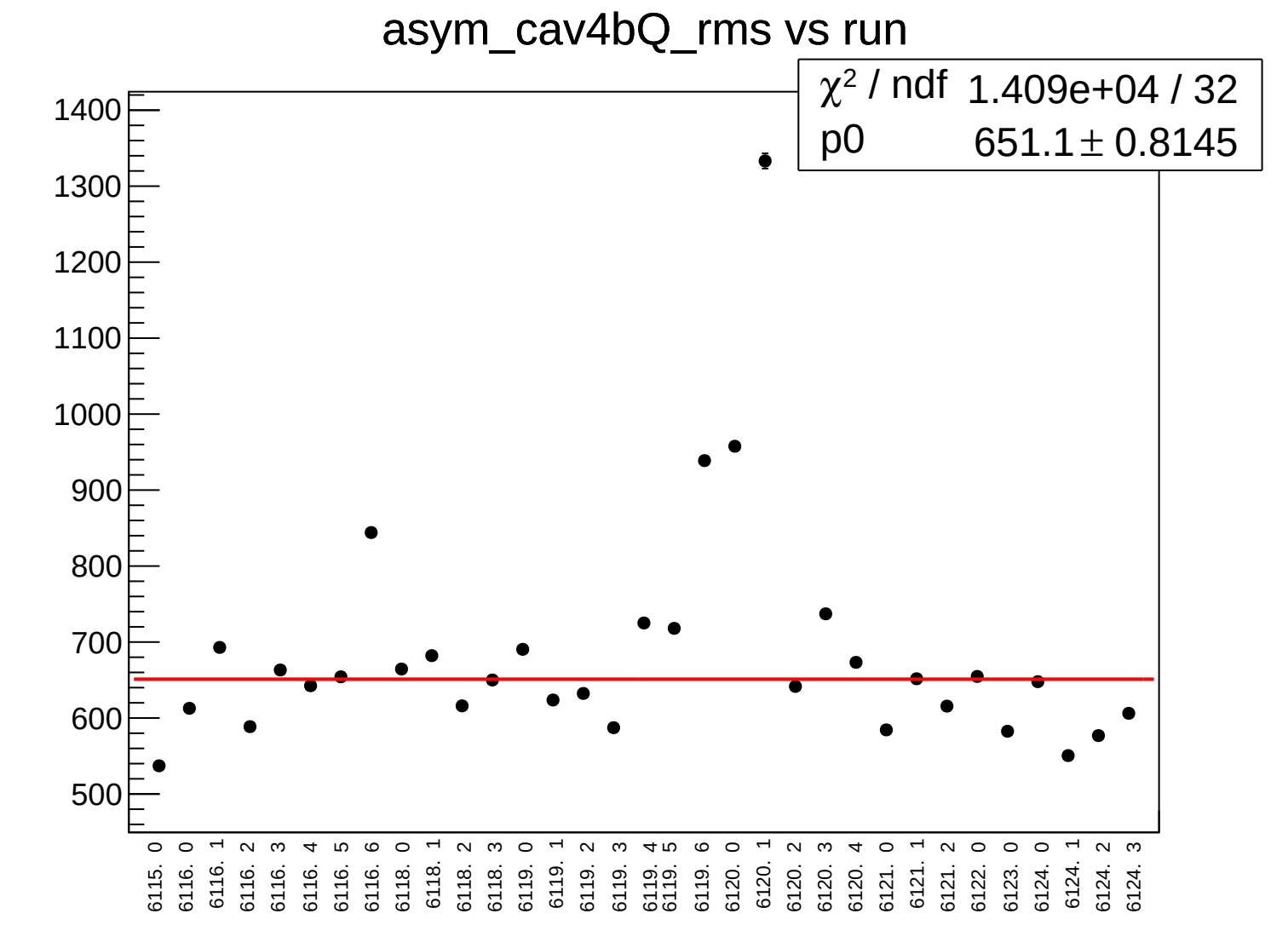

asym_bcm_dg_ds_mean vs run
χ² / ndf 4.654 / 32
p0 156.4 ± 550
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 198.3
Std Dev 184.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

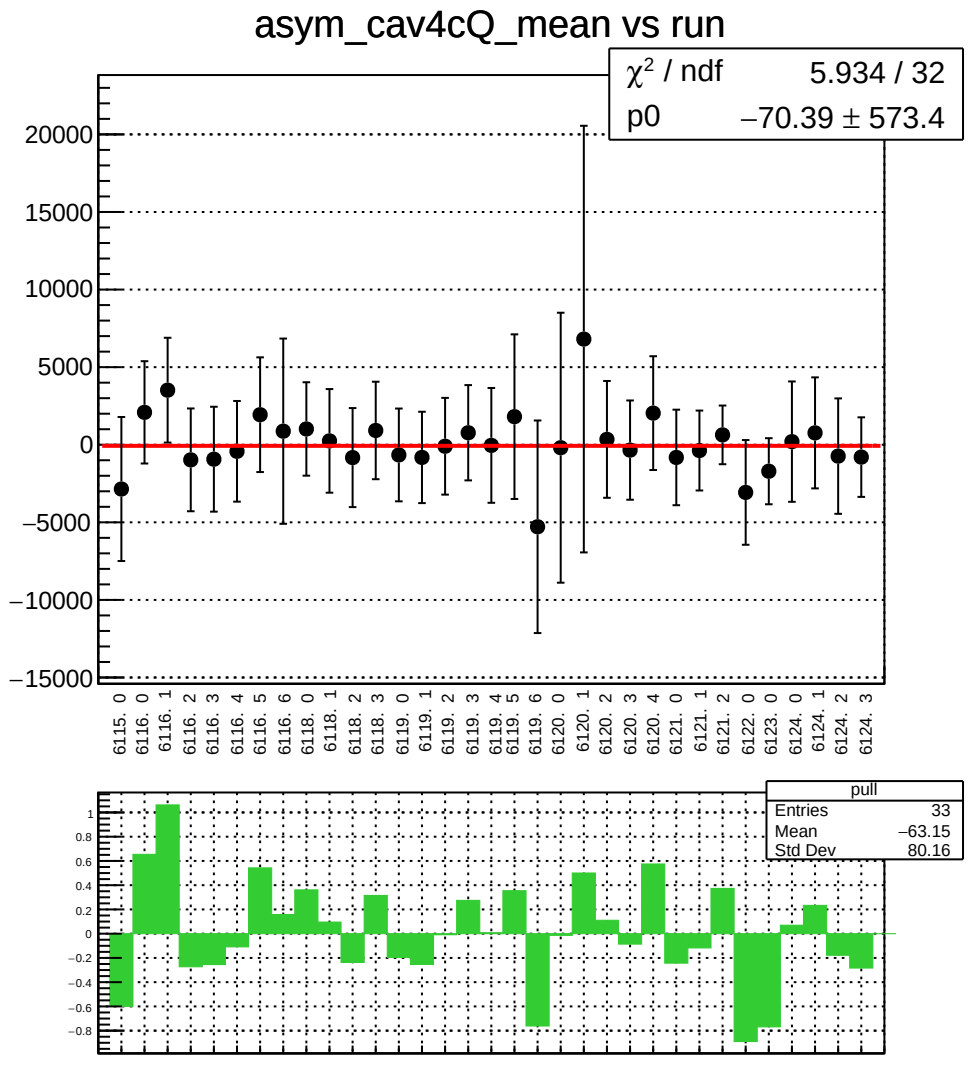

pull1D
Entries 33
Mean −0.00228
Std Dev 0.3755
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

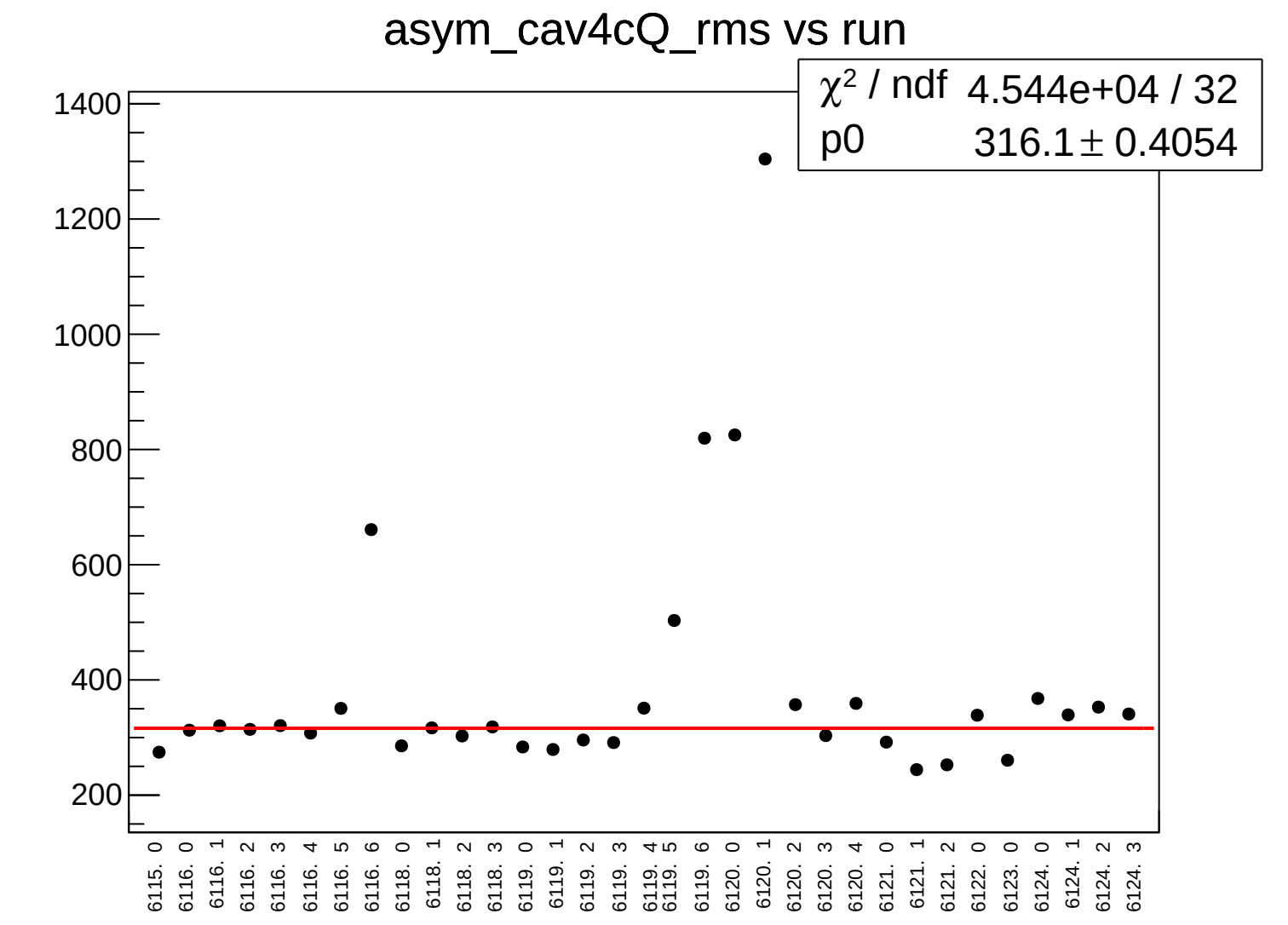

asym_bcm_dg_ds_rms vs run
χ² / ndf 4.639e+04 / 32
p0 302.9 ± 0.3889
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

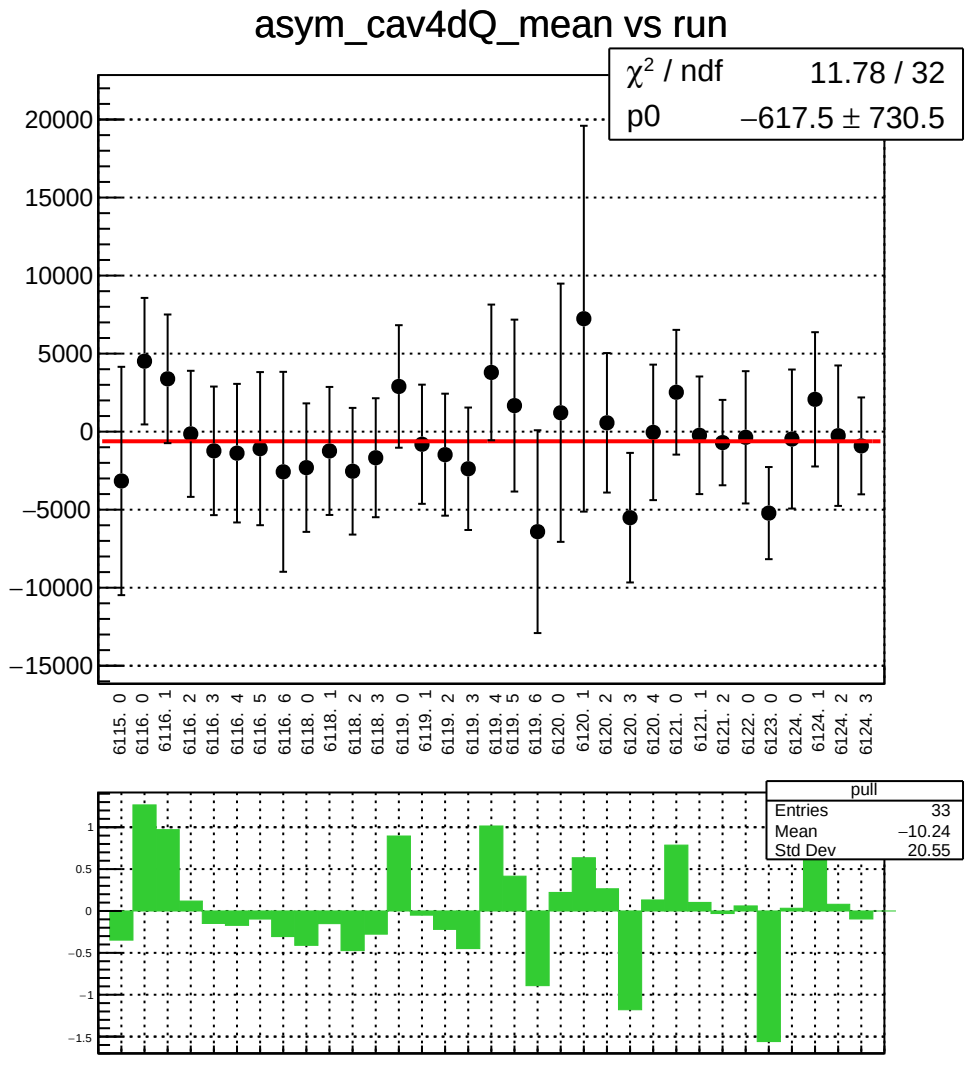

asym_cav4bQ_mean vs run
χ² / ndf 18.12 / 32
p0 −1080 ± 1152
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −844.3
Std Dev 856.2
1.5
1
0.5
0
−0.5
−1
−1.5

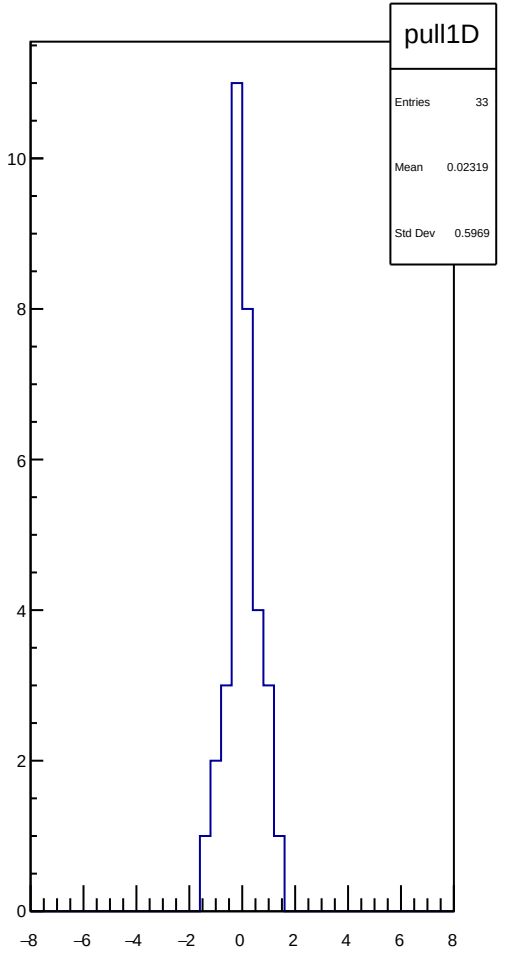

pull1D
Entries 33
Mean −0.002063
Std Dev 0.741
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

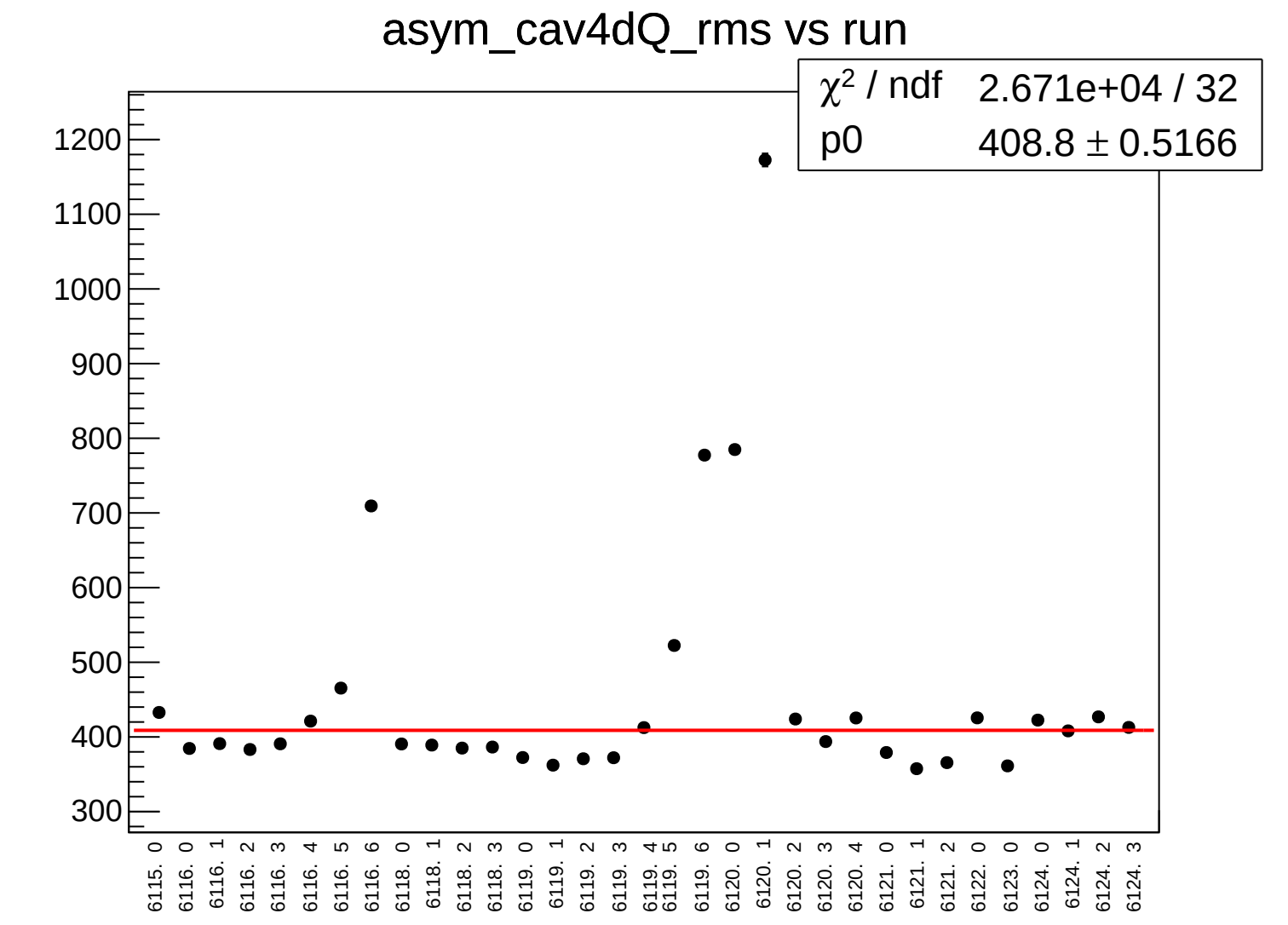

asym_cav4bQ_rms vs run
χ² / ndf 1.409e+04 / 32
p0 651.1 ± 0.8145
1400
1300
1200
1100
1000
900
800
700
600
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

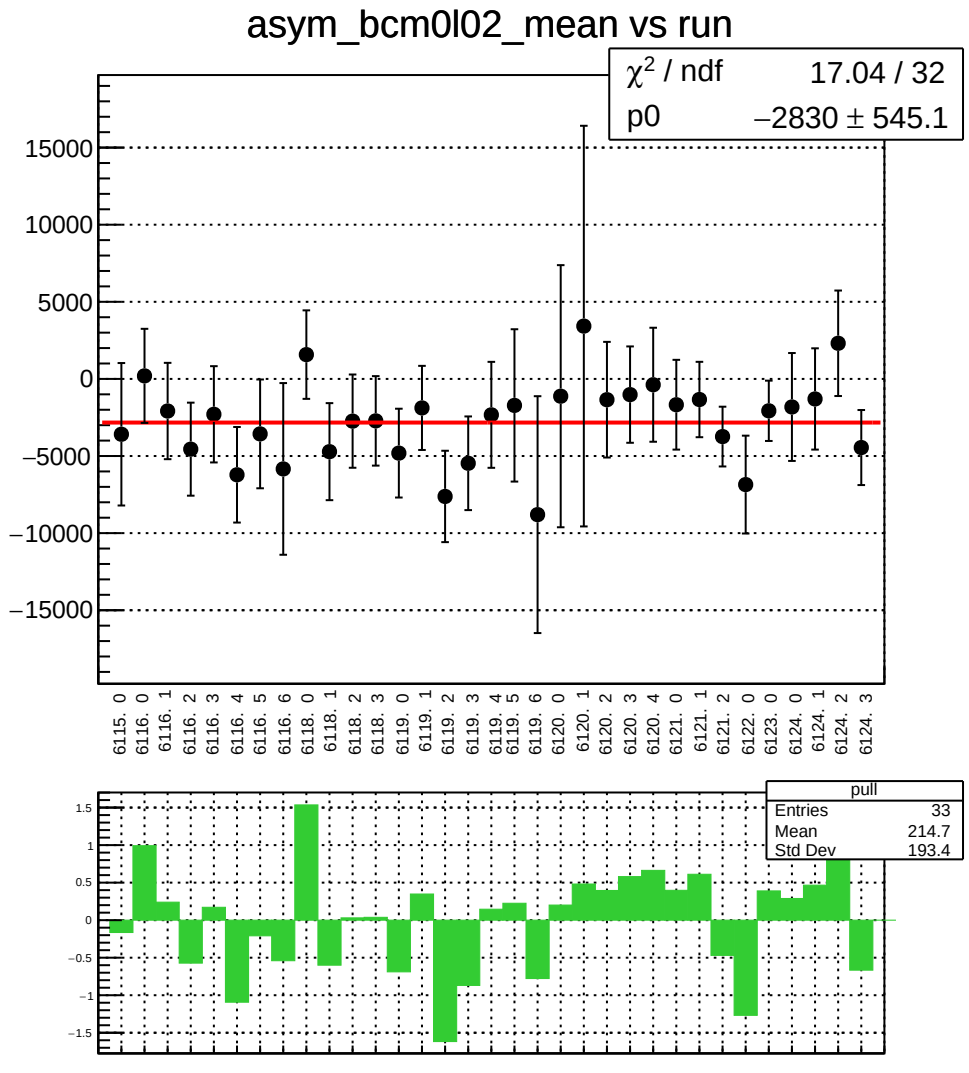

asym_cav4cQ_mean vs run
χ² / ndf 5.934 / 32
p0 −70.39 ± 573.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −63.15
Std Dev 80.16
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.01256
Std Dev 0.4238
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

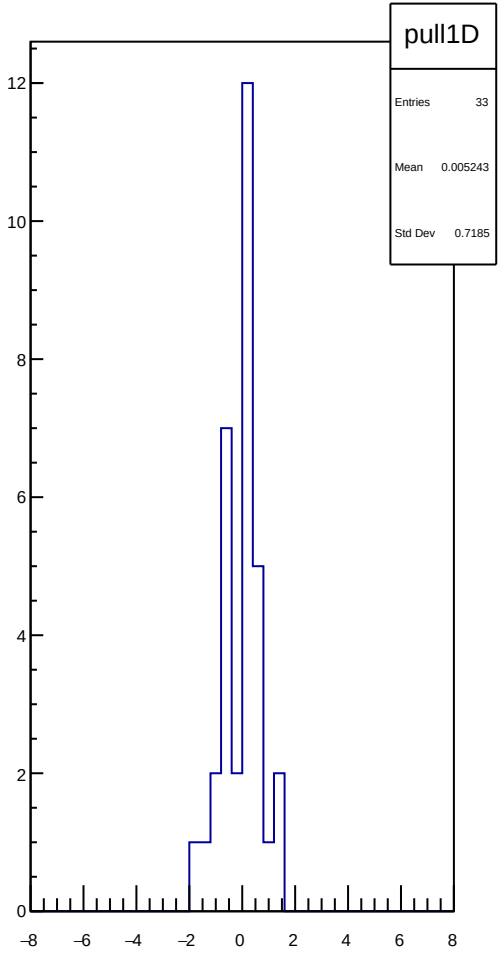

asym_cav4cQ_rms vs run
χ² / ndf 4.544e+04 / 32
p0 316.1 ± 0.4054
1400
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

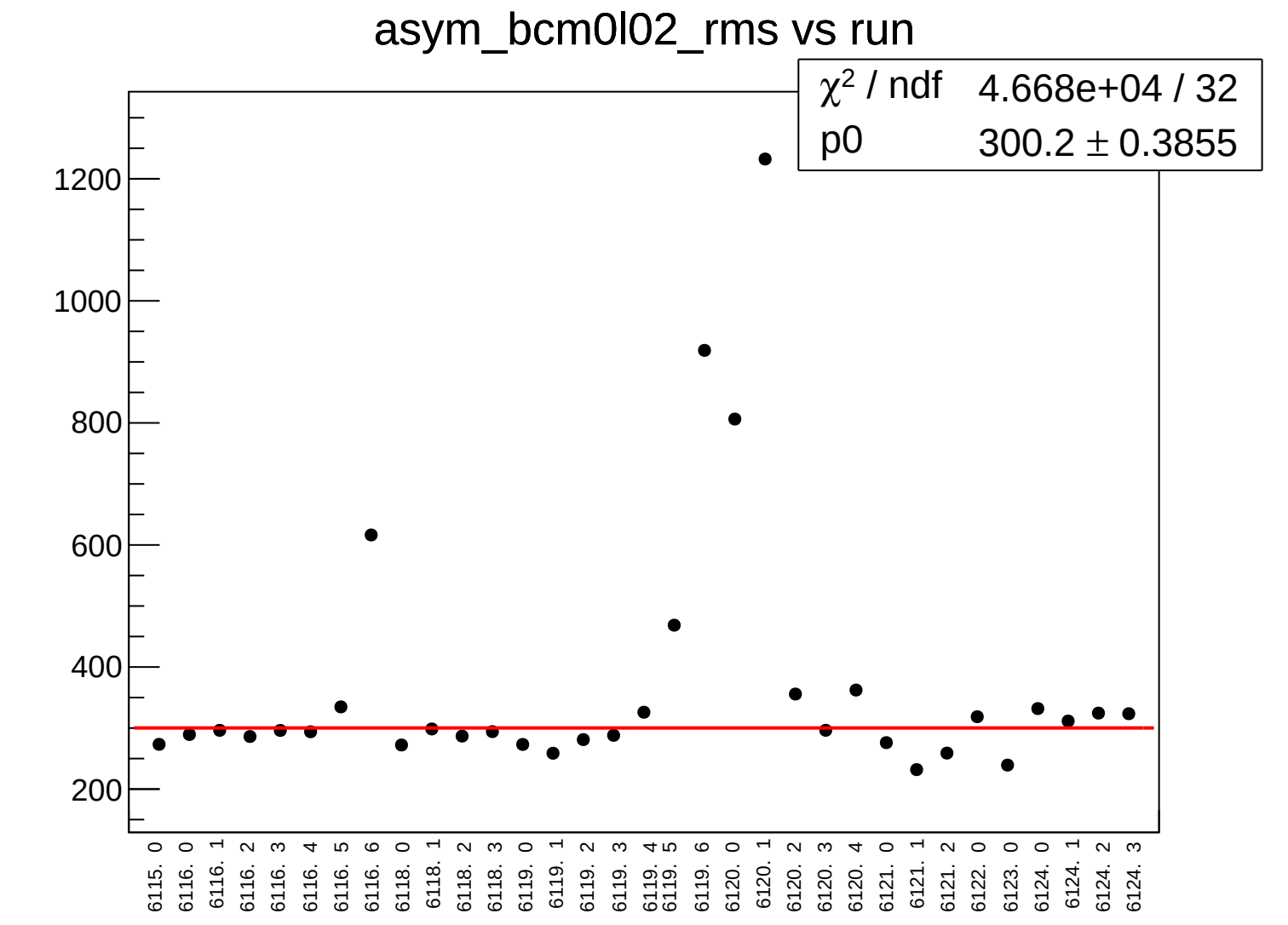

asym_cav4dQ_mean vs run
χ² / ndf 11.78 / 32
p0 −617.5 ± 730.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −10.24
Std Dev 20.55
1
0.5
0
−0.5
−1
−1.5

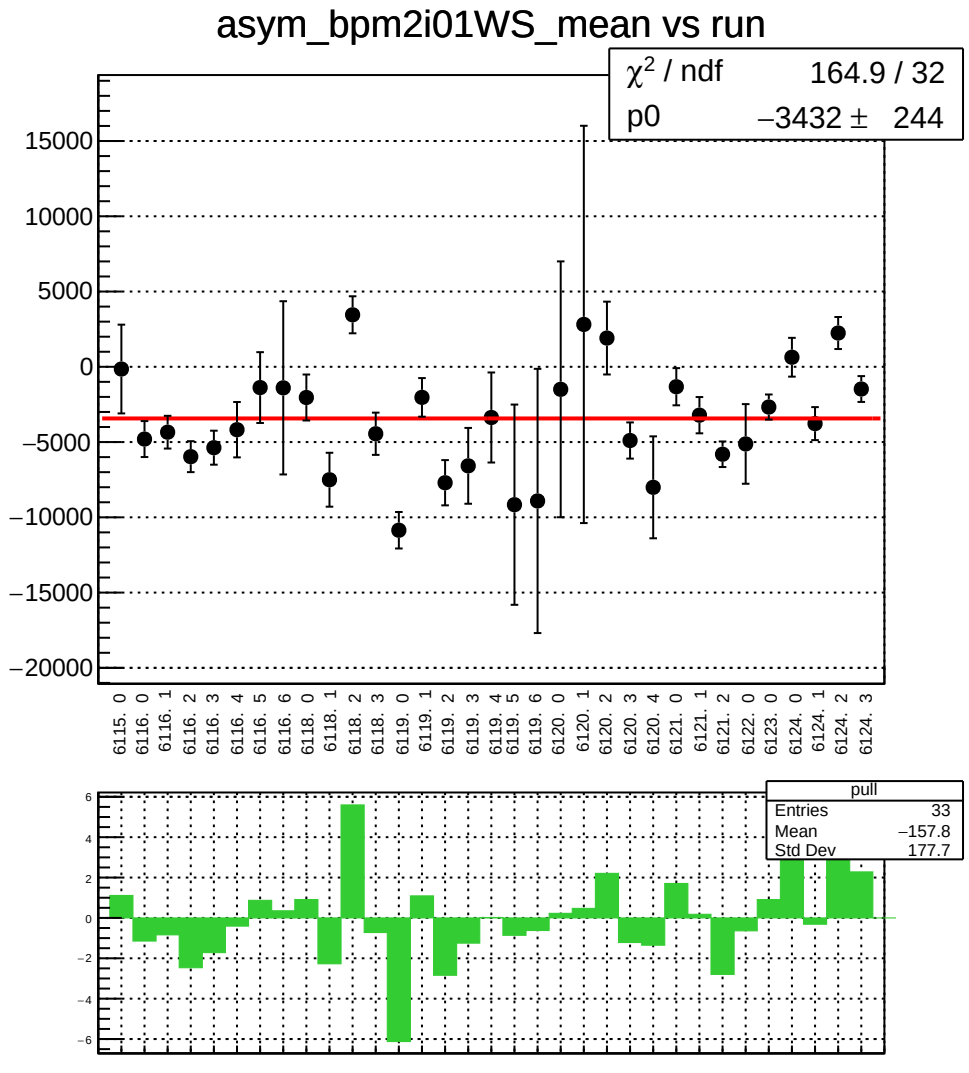

pull1D
Entries 33
Mean 0.02319
Std Dev 0.5969
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

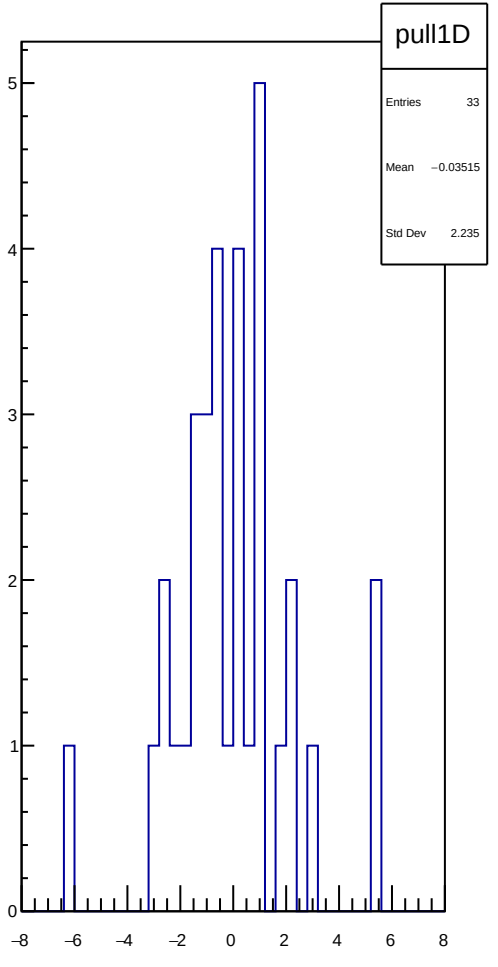

asym_cav4dQ_rms vs run
χ² / ndf 2.671e+04 / 32
p0 408.8 ± 0.5166
1200
1100
1000
900
800
700
600
500
400
300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

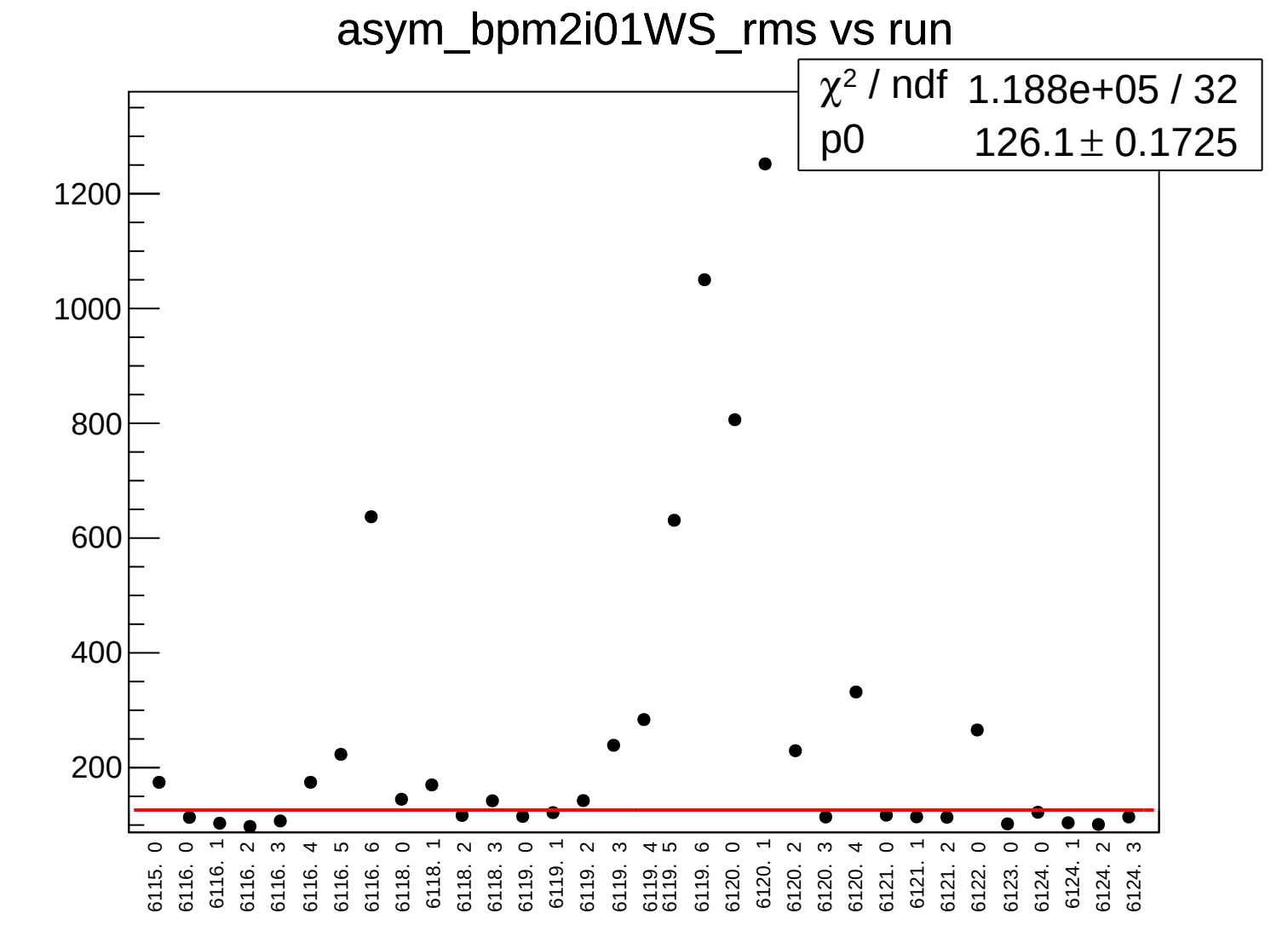

asym_bcm0l02_mean vs run
χ² / ndf 17.04 / 32
p0 −2830 ± 545.1
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 214.7
Std Dev 193.4
1.5
1
0.5
0
−0.5
−1
−1.5

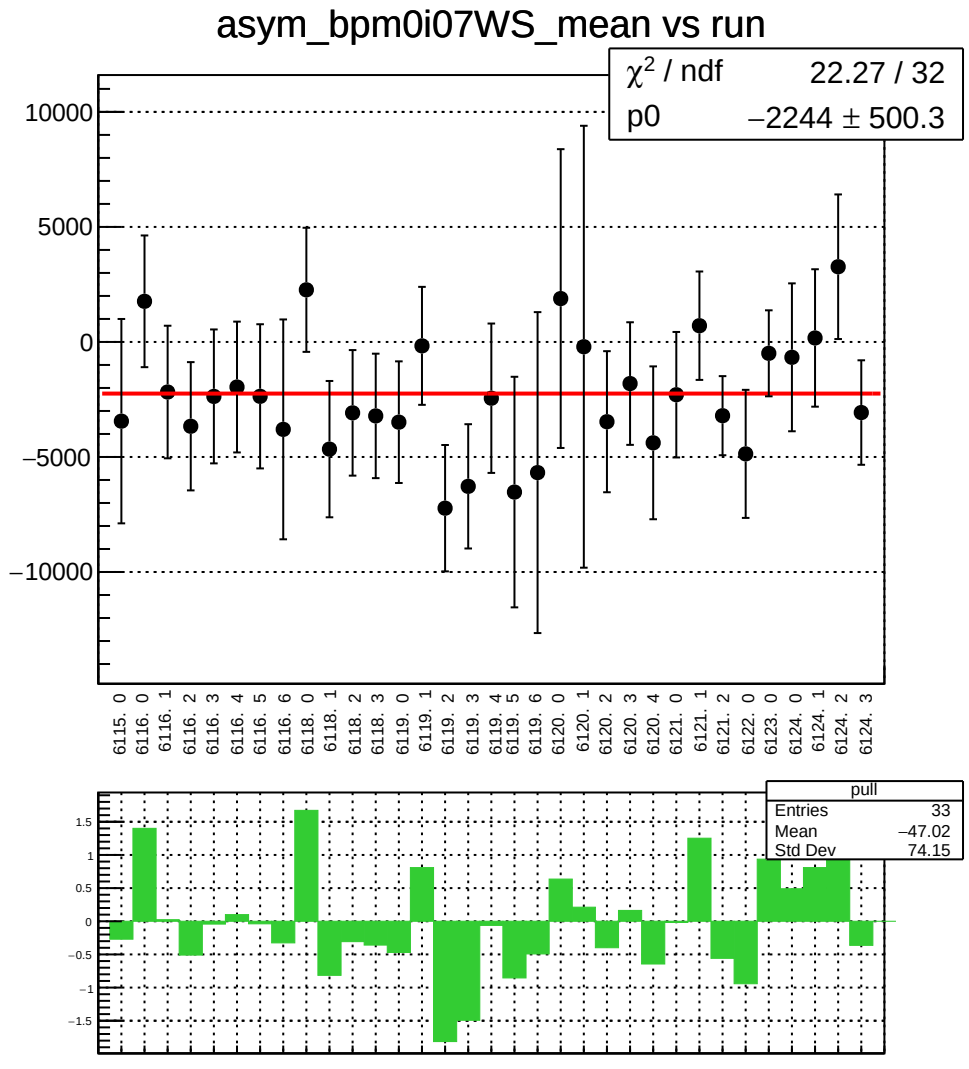

pull1D
Entries 33
Mean 0.005243
Std Dev 0.7185
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

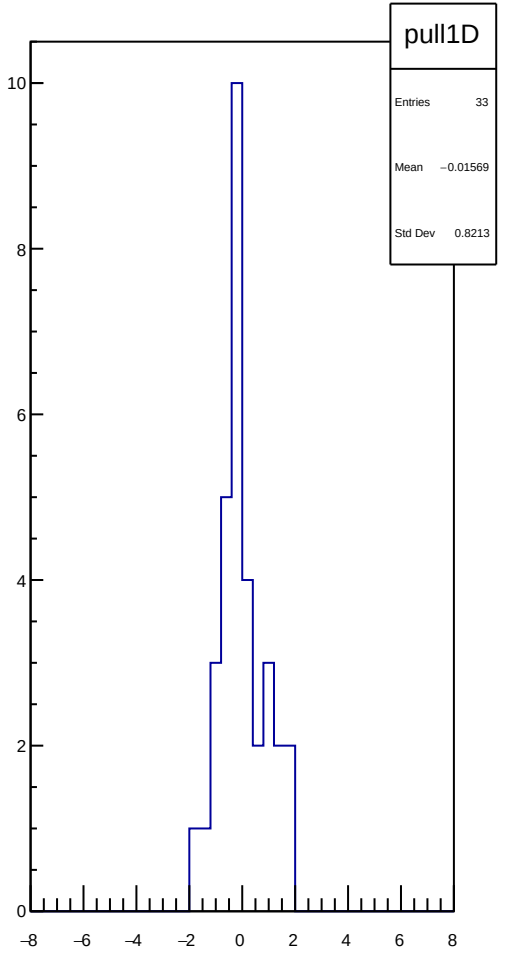

asym_bcm0l02_rms vs run
χ² / ndf 4.668e+04 / 32
p0 300.2 ± 0.3855
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

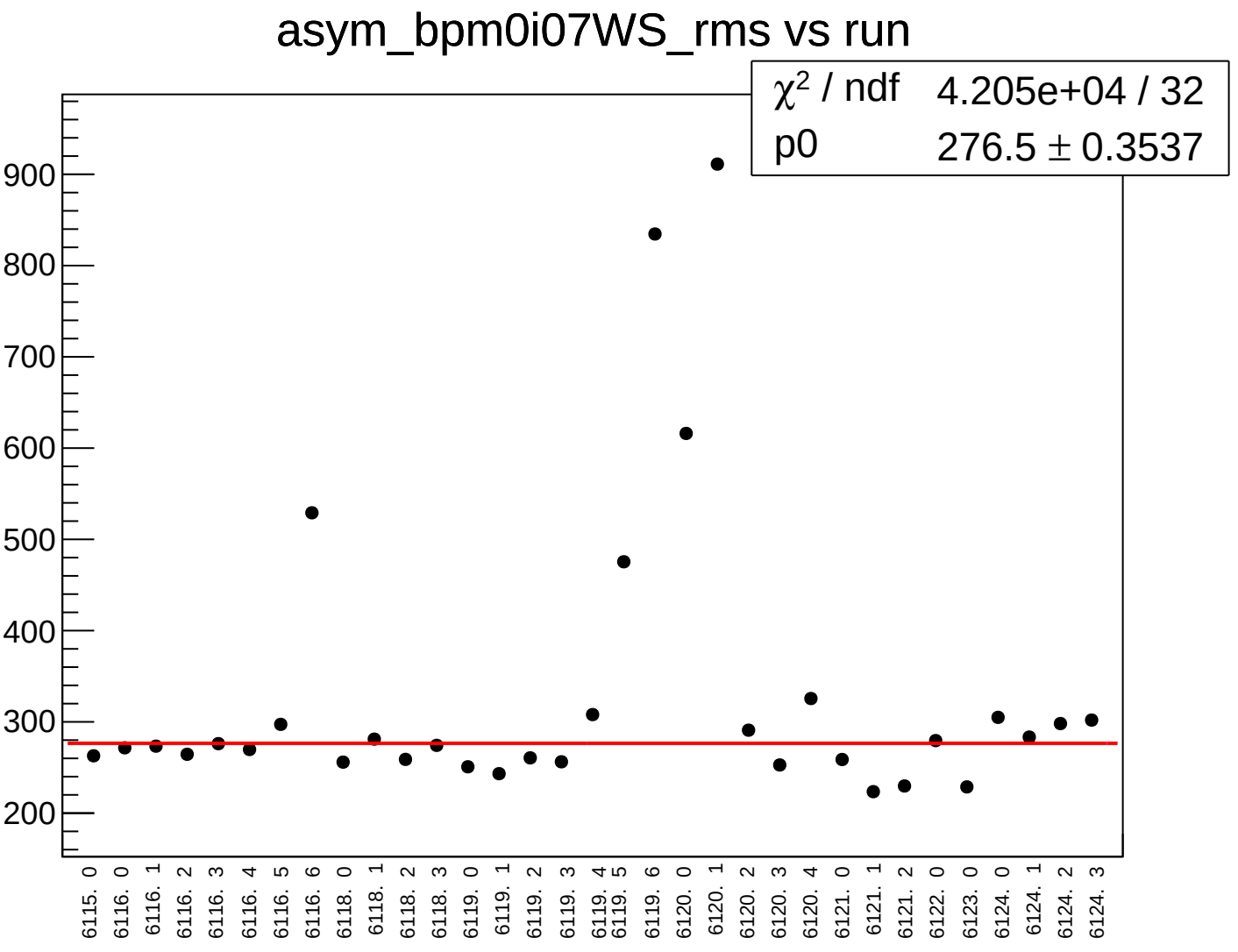

asym_bpm2i01WS_mean vs run
χ² / ndf 164.9 / 32
p0 −3432 ± 244
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −157.8
Std Dev 177.7
6
4
2
0
−2
−4
−6

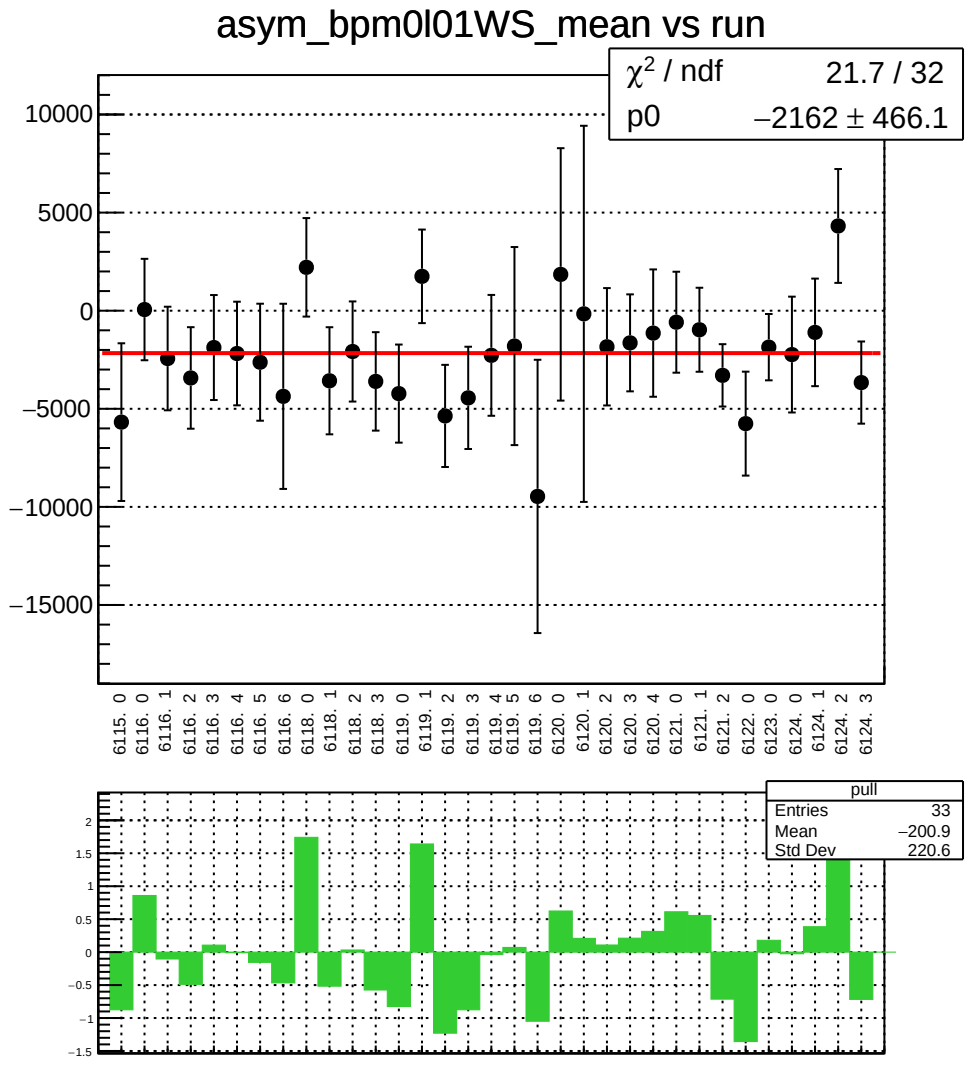

pull1D
Entries 33
Mean −0.03515
Std Dev 2.235
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

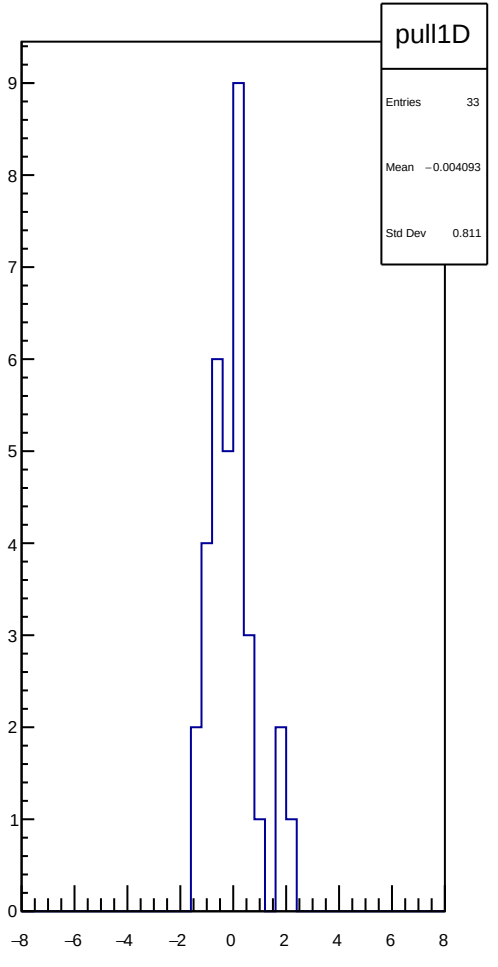

asym_bpm2i01WS_rms vs run
χ² / ndf 1.188e+05 / 32
p0 126.1 ± 0.1725
1200
1000
800
600
400
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

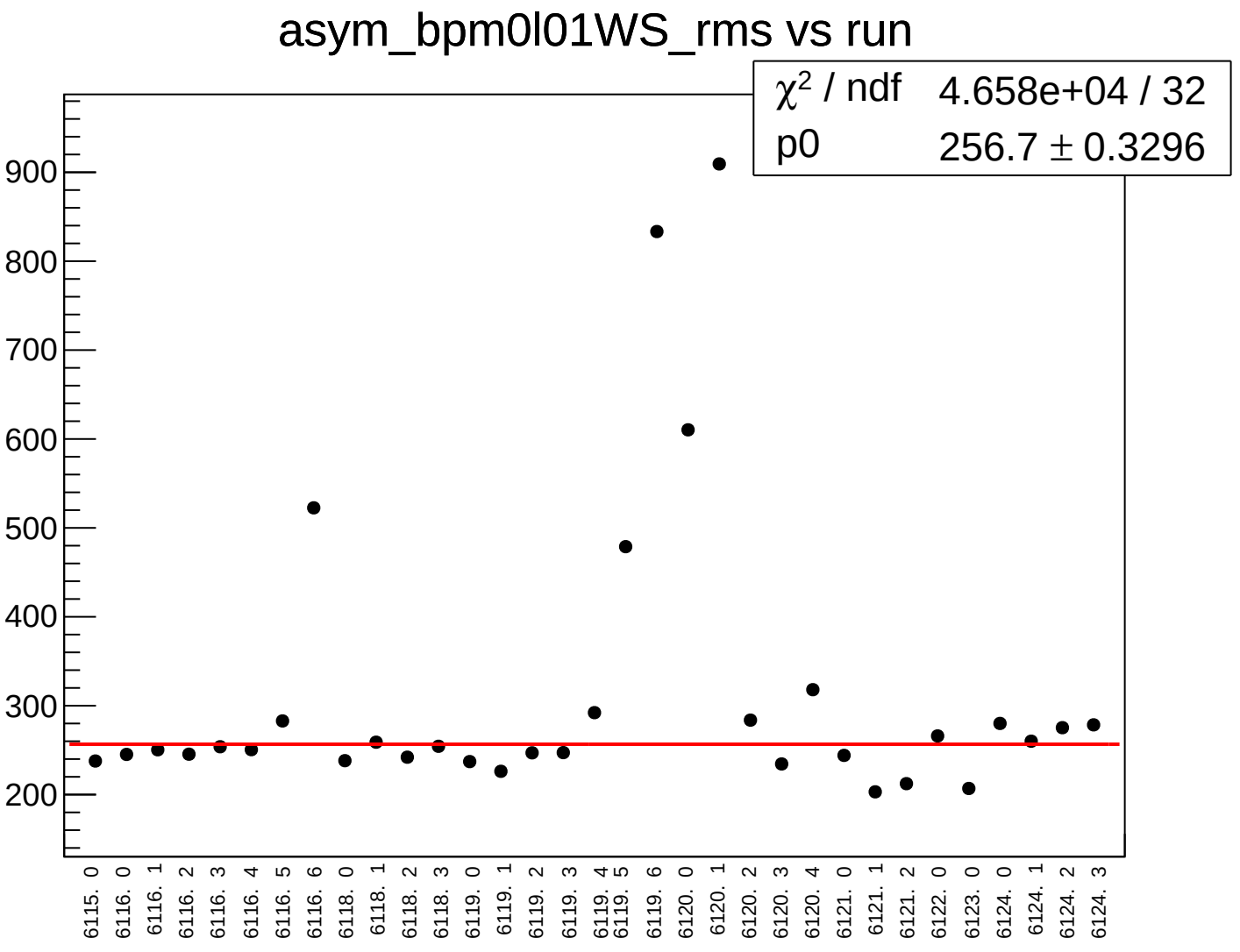

asym_bpm0i07WS_mean vs run
χ² / ndf 22.27 / 32
p0 −2244 ± 500.3
10000
5000
0
−5000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −47.02
Std Dev 74.15
1.5
1
0.5
0
−0.5
−1
−1.5

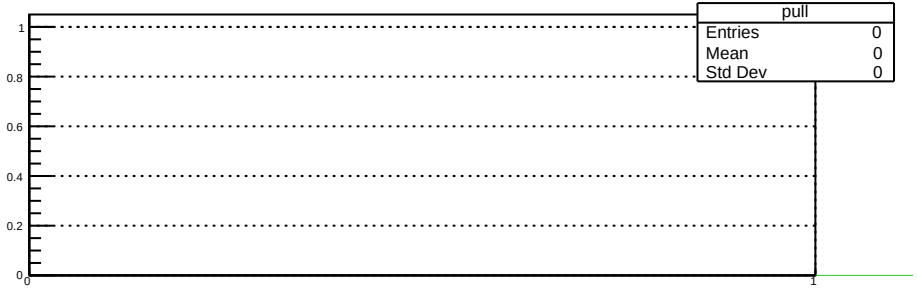

pull1D
Entries 33
Mean −0.01569
Std Dev 0.8213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

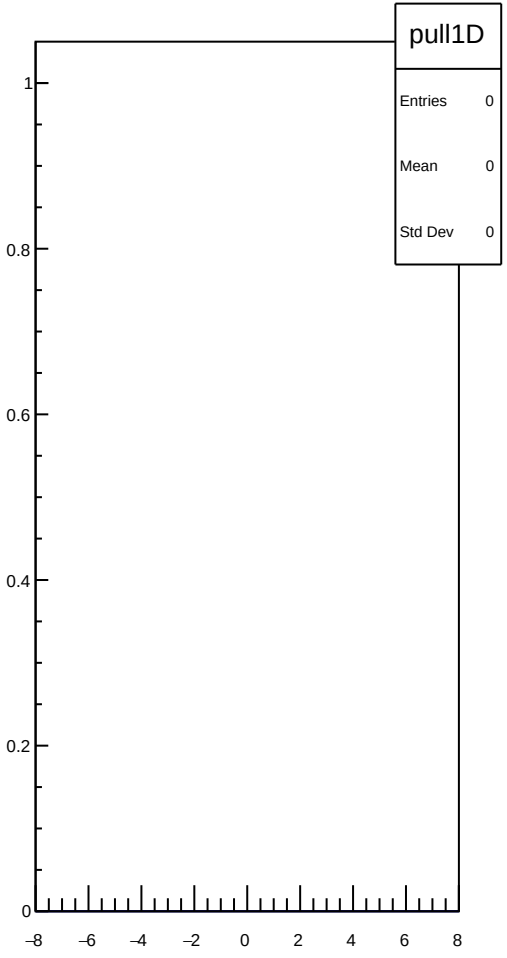

asym_bpm0i07WS_rms vs run
χ^2 / ndf 4.205e+04 / 32
p0 276.5 ± 0.3537
900
800
700
600
500
400
300
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

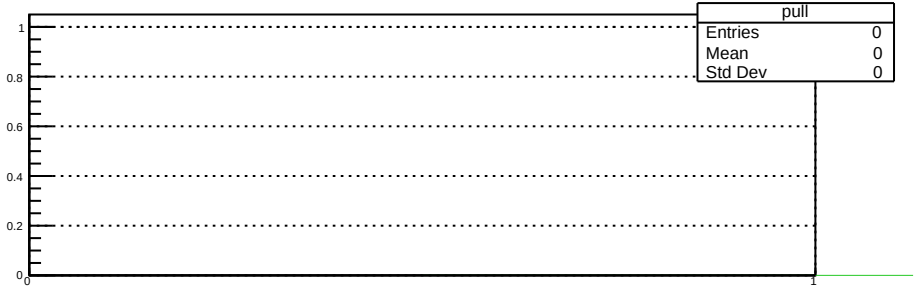

asym_bpm0l01WS_mean vs run
χ² / ndf 21.7 / 32
p0 −2162 ± 466.1
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −200.9
Std Dev 220.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

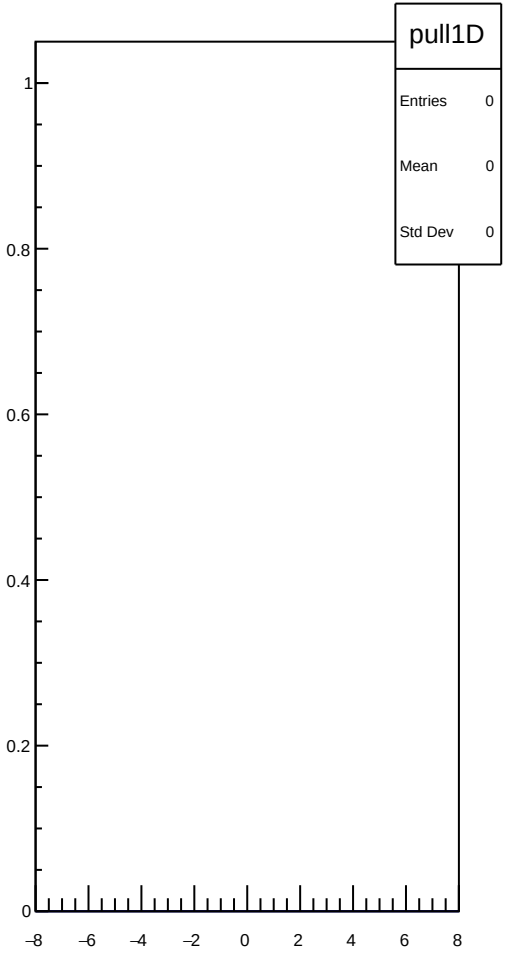

pull1D
Entries 33
Mean −0.004093
Std Dev 0.811
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

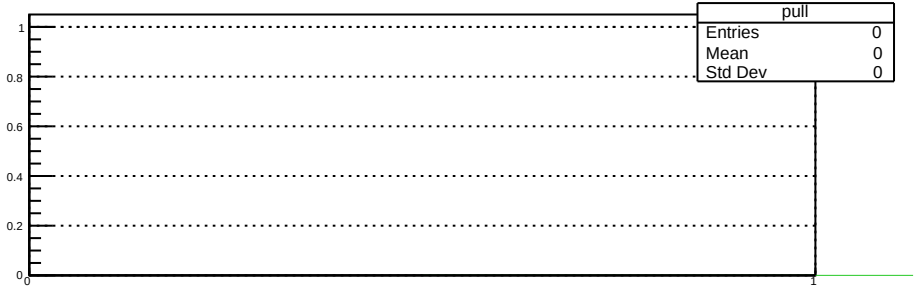

asym_bpm0l01WS_rms vs run
χ² / ndf 4.658e+04 / 32
p0 256.7 ± 0.3296
900
800
700
600
500
400
300
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

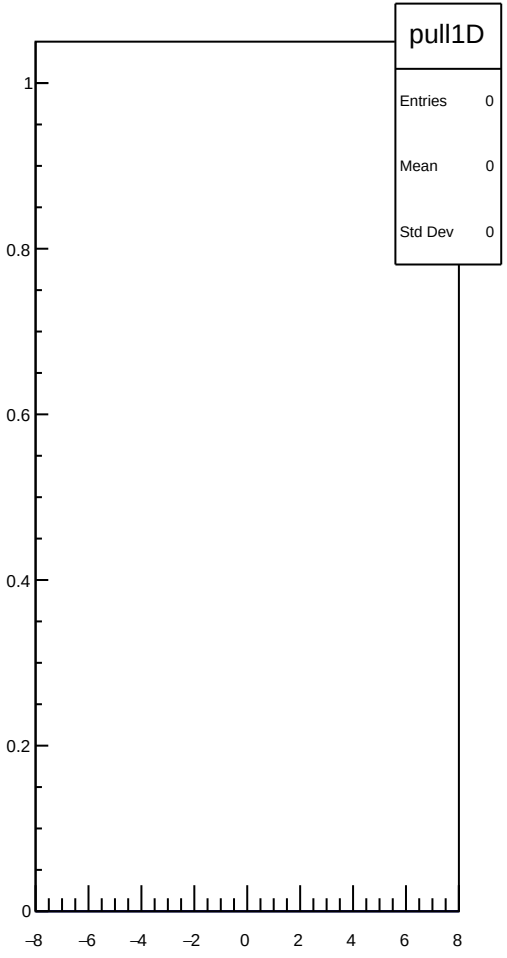

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

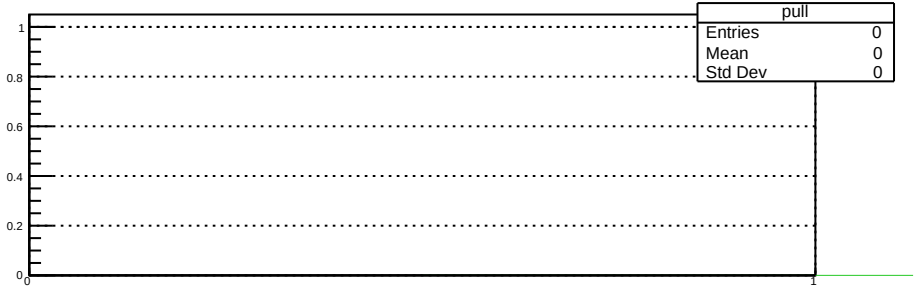

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

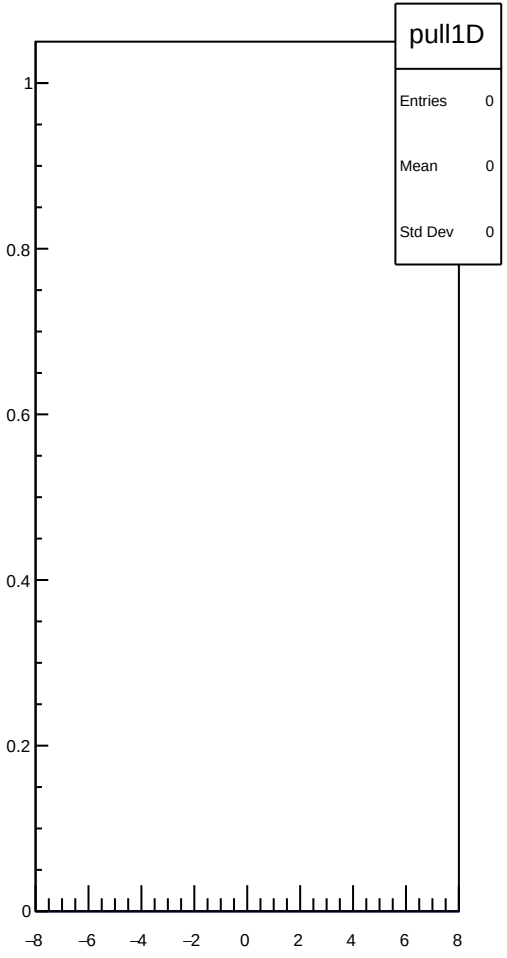

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

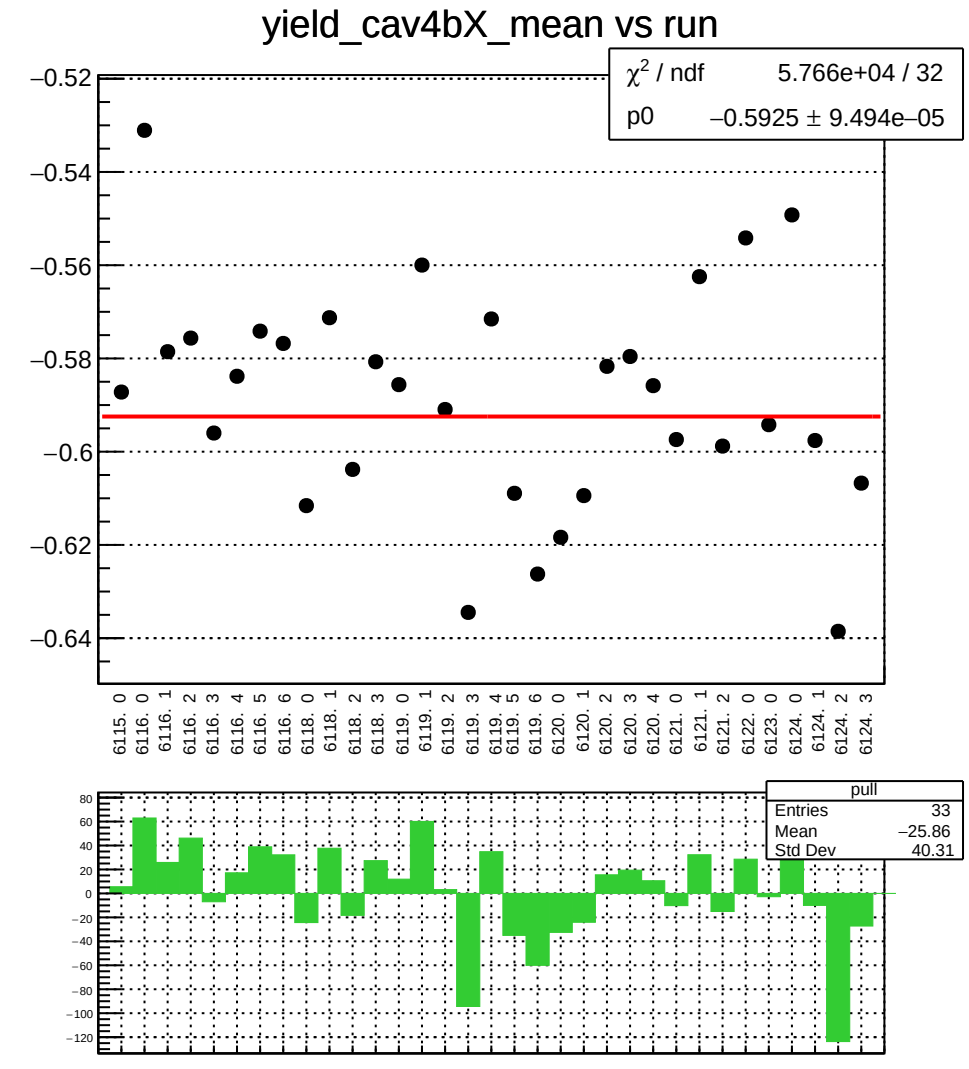

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

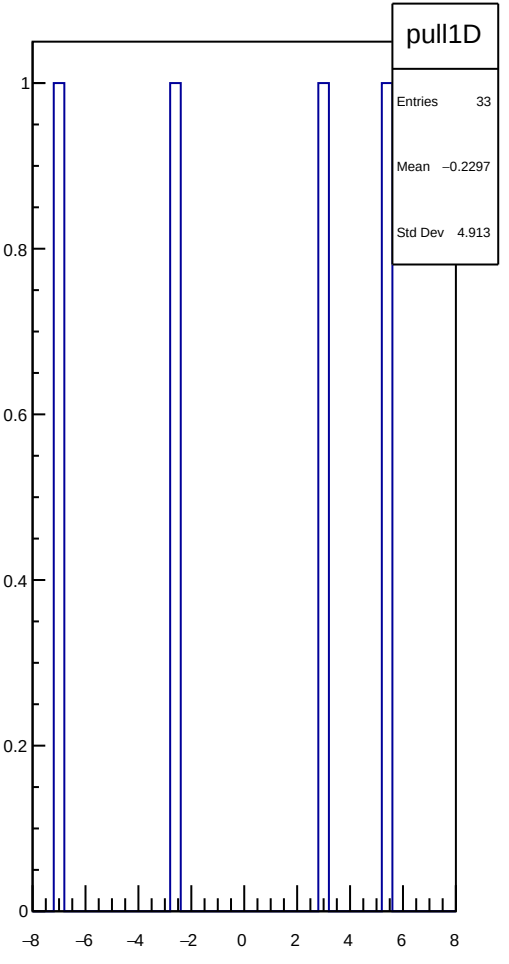

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

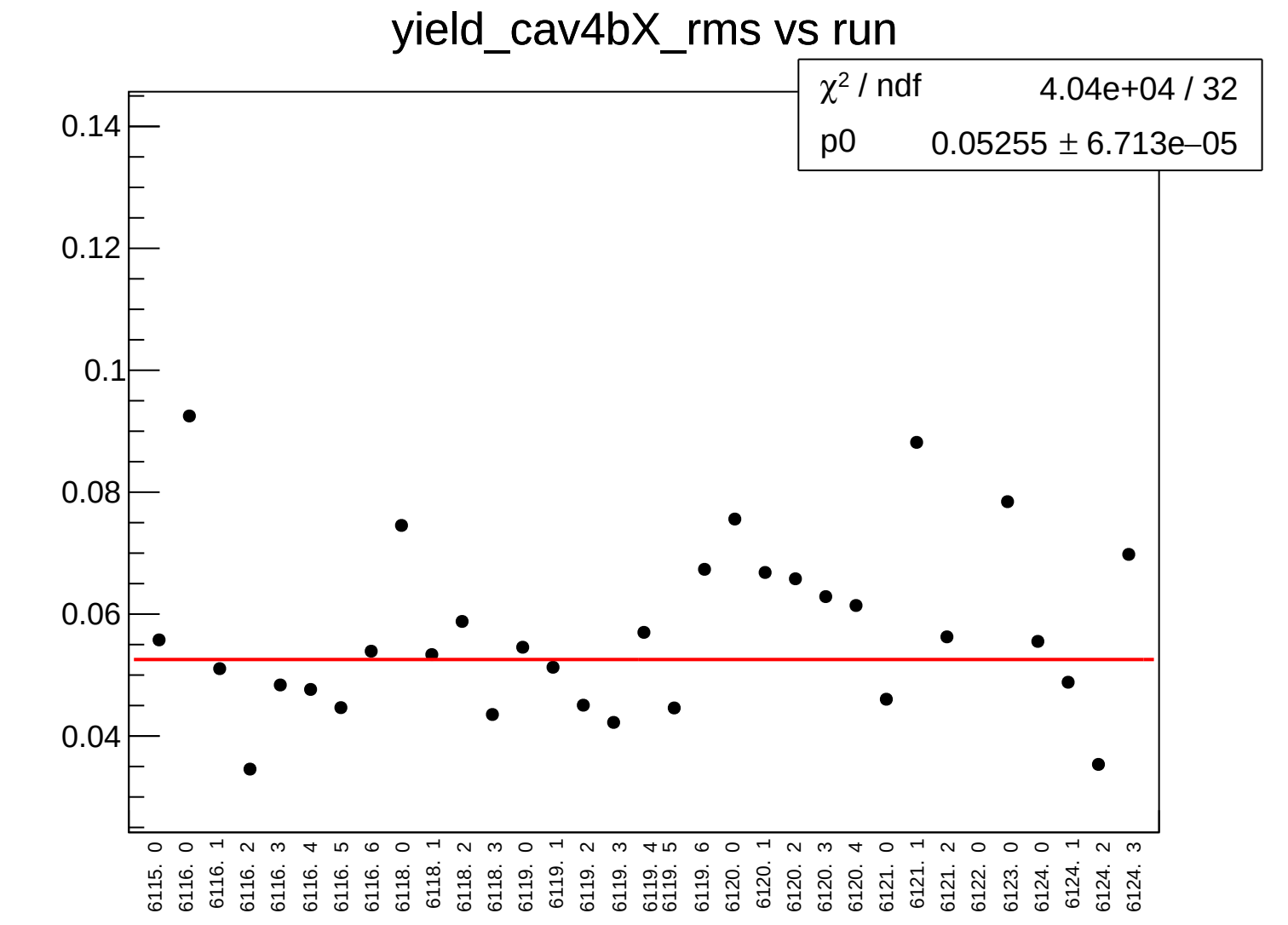

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

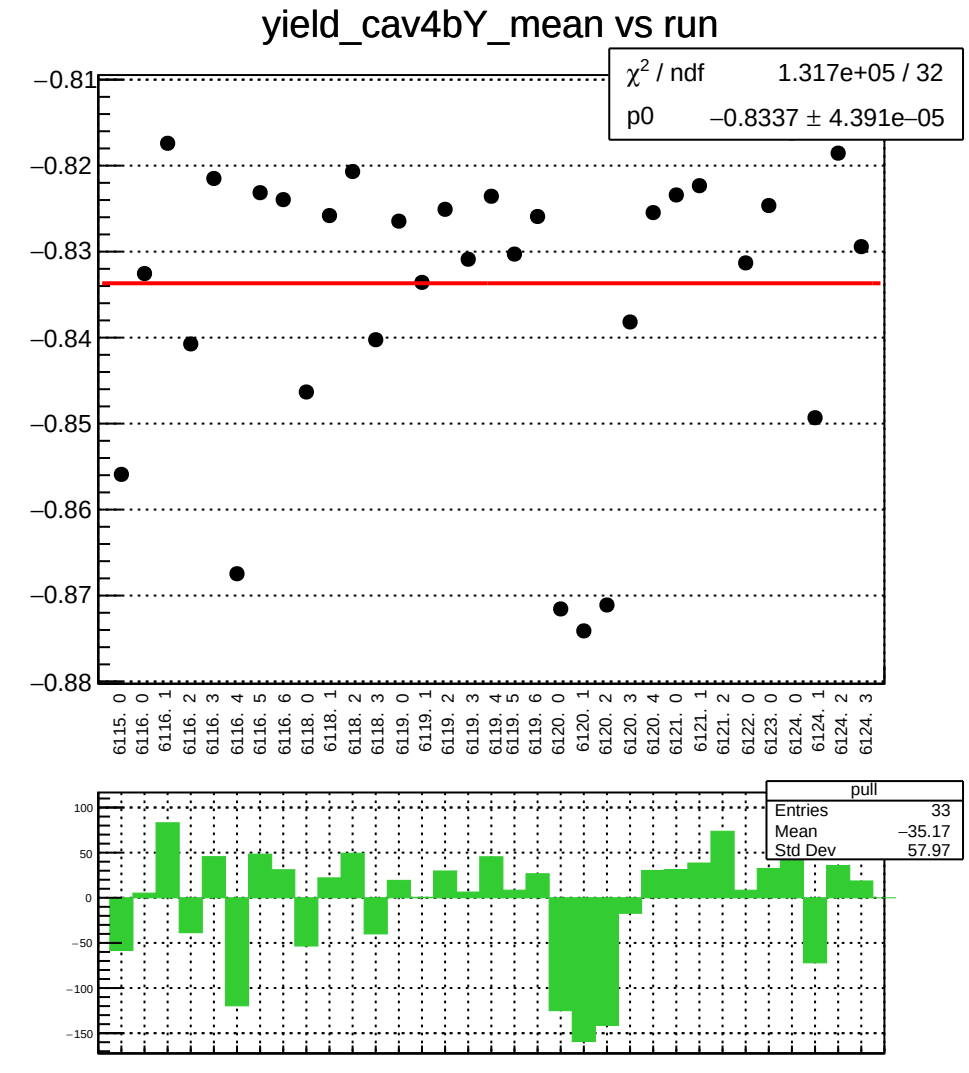

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

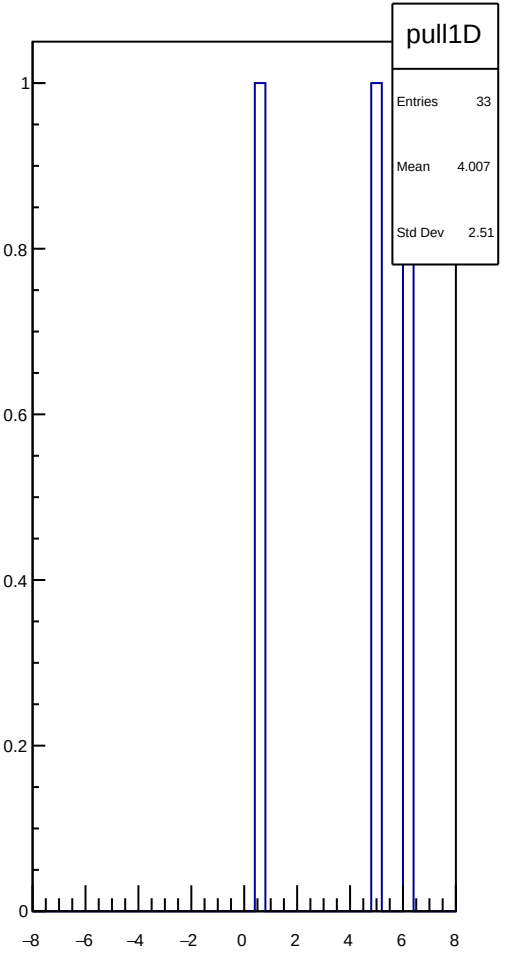

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

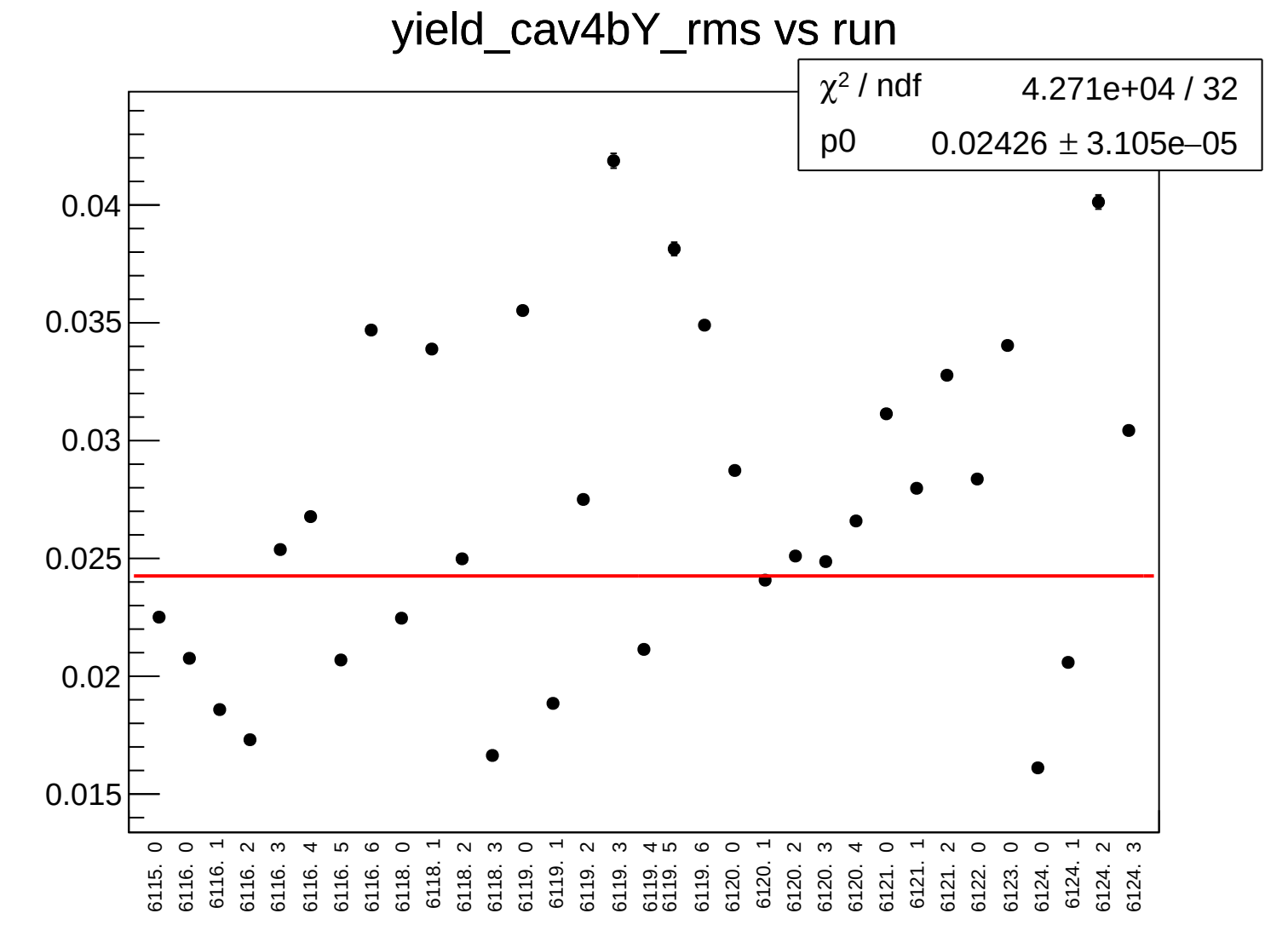

yield_cav4bX_mean vs run
χ² / ndf 5.766e+04 / 32
p0 −0.5925 ± 9.494e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −25.86
Std Dev 40.31
80
60
40
20
0
−20
−40
−60
−80
−100
−120

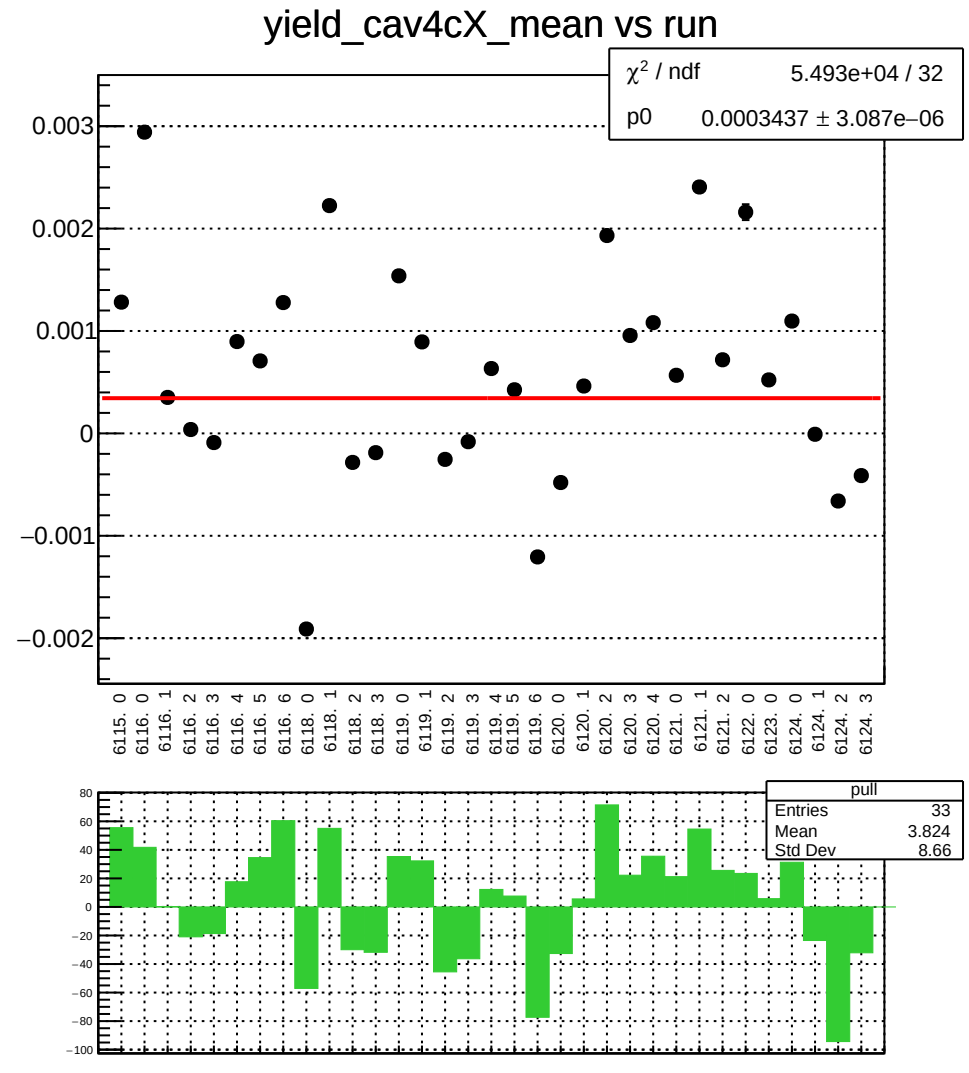

pull1D
Entries 33
Mean −0.2297
Std Dev 4.913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

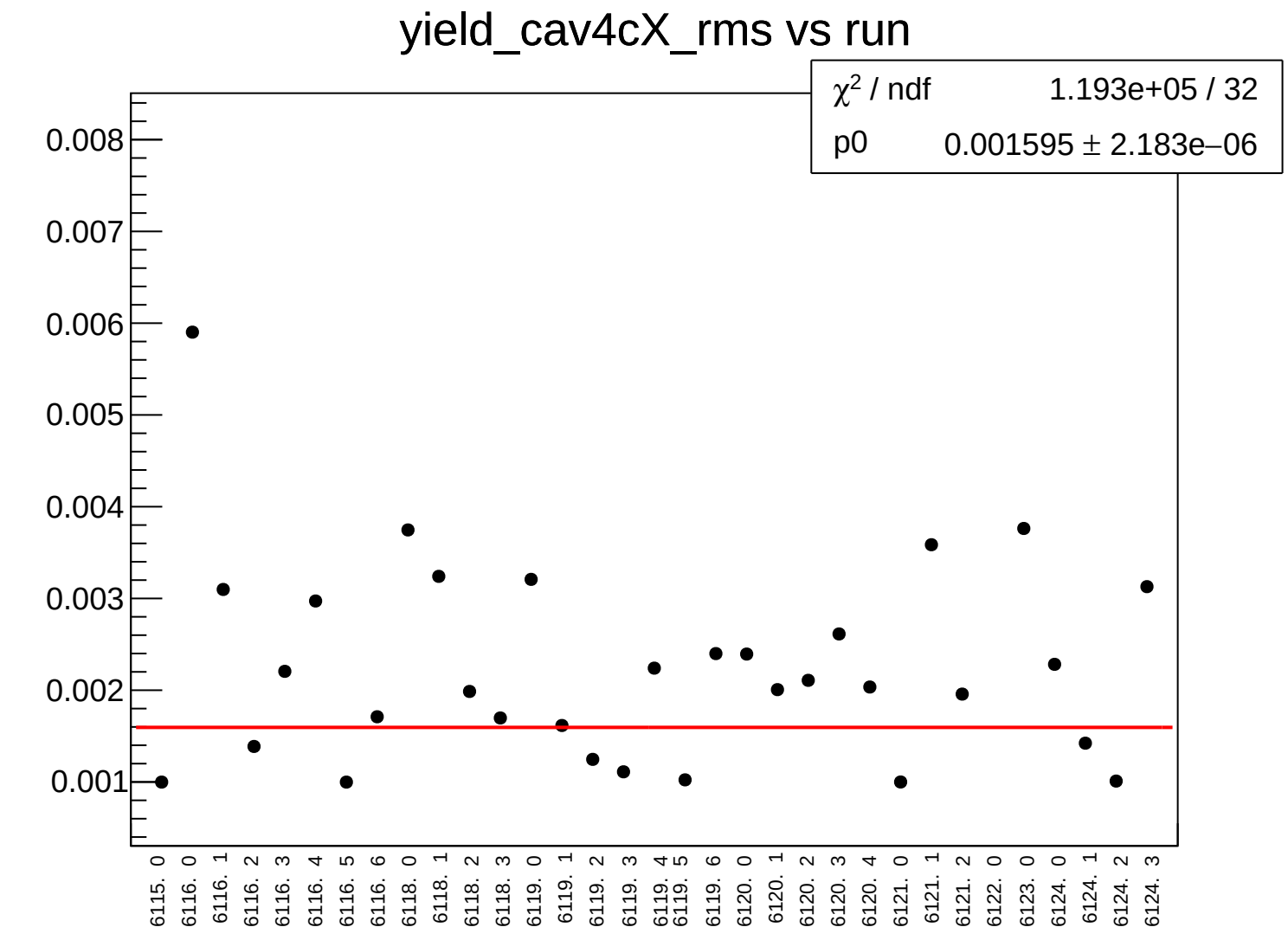

yield_cav4bX_rms vs run
χ² / ndf 4.04e+04 / 32
p0 0.05255 ± 6.713e–05
0.14
0.12
0.1
0.08
0.06
0.04
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_cav4bY_mean vs run
χ² / ndf 1.317e+05 / 32
p0 −0.8337 ± 4.391e−05
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −35.17
Std Dev 57.97
100
50
0
−50
−100
−150


pull1D
Entries 33
Mean 4.007
Std Dev 2.51
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 4.271e+04 / 32
p0 0.02426 ± 3.105e−05
0.04
0.035
0.03
0.025
0.02
0.015
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_cav4cX_mean vs run
χ² / ndf 5.493e+04 / 32
p0 0.0003437 ± 3.087e−06
0.003
0.002
0.001
0
−0.001
−0.002
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 3.824
Std Dev 8.66
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 33
Mean 4.822
Std Dev 2.763
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cX_rms vs run
χ² / ndf 1.193e+05 / 32
p0 0.001595 ± 2.183e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
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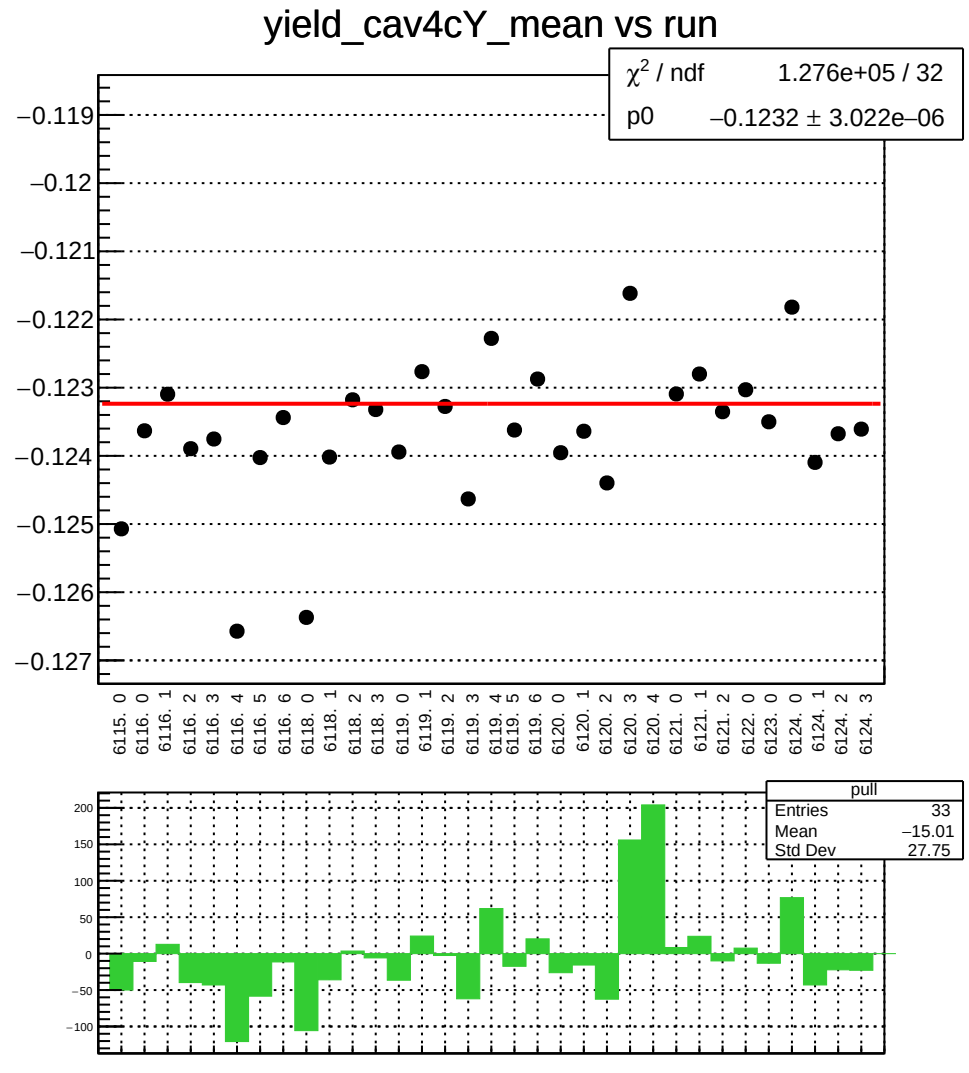
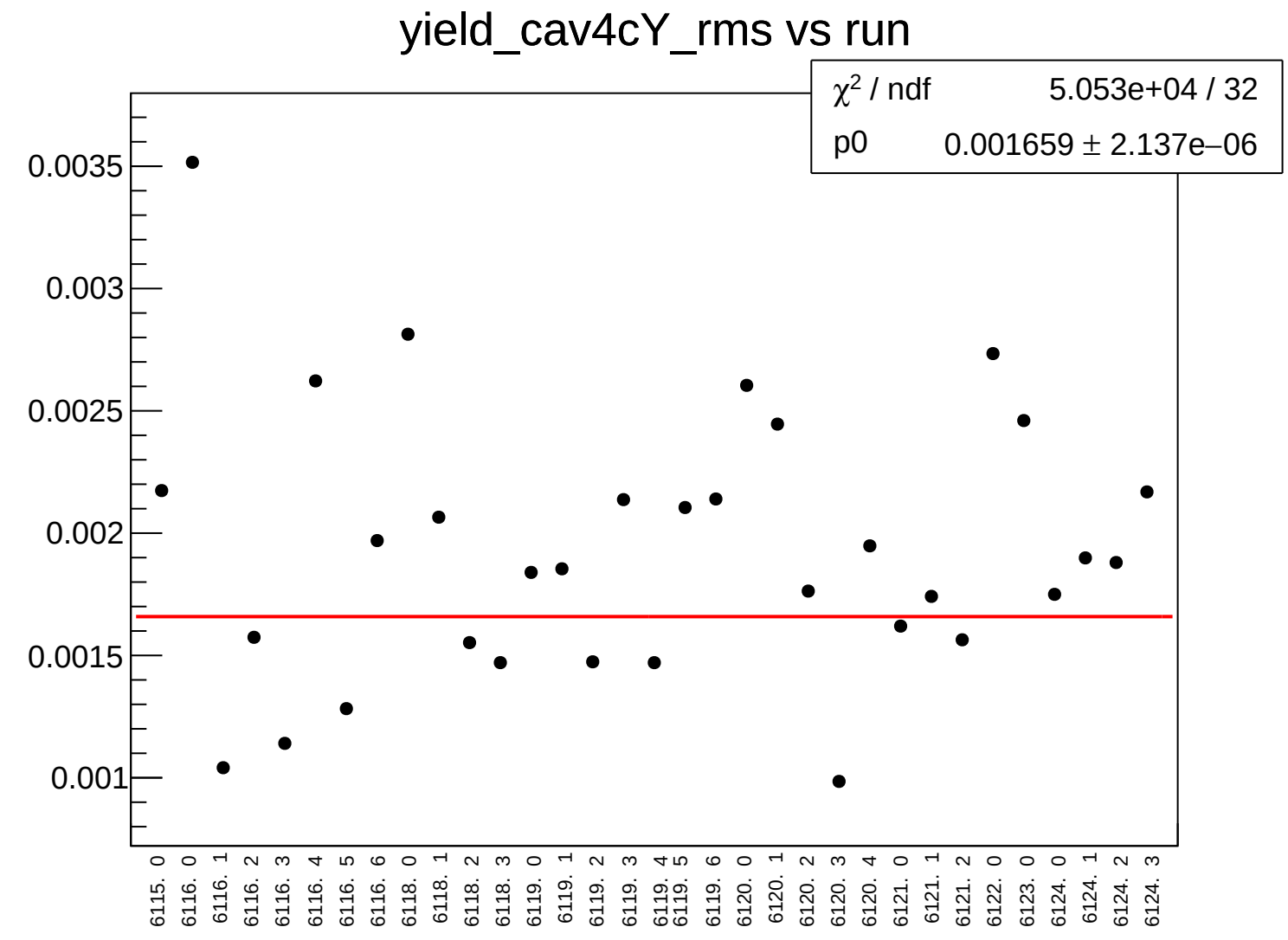
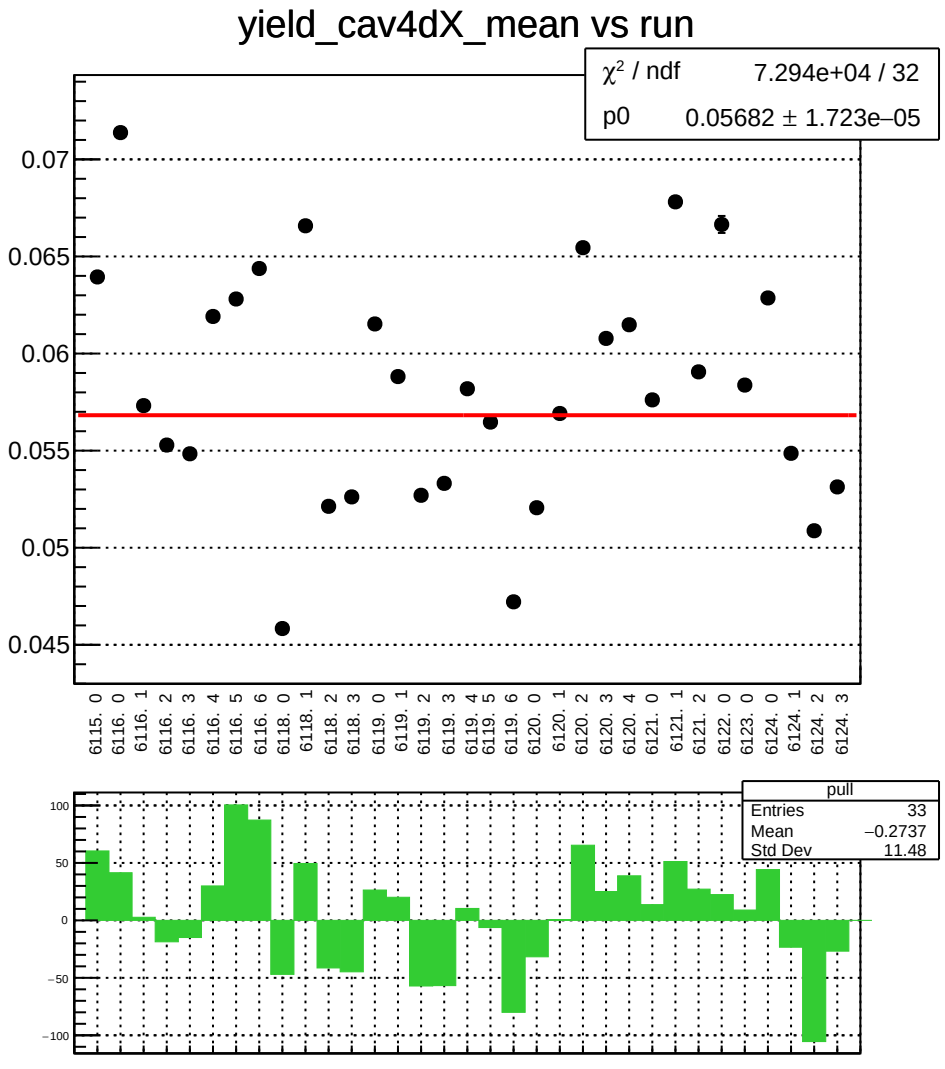
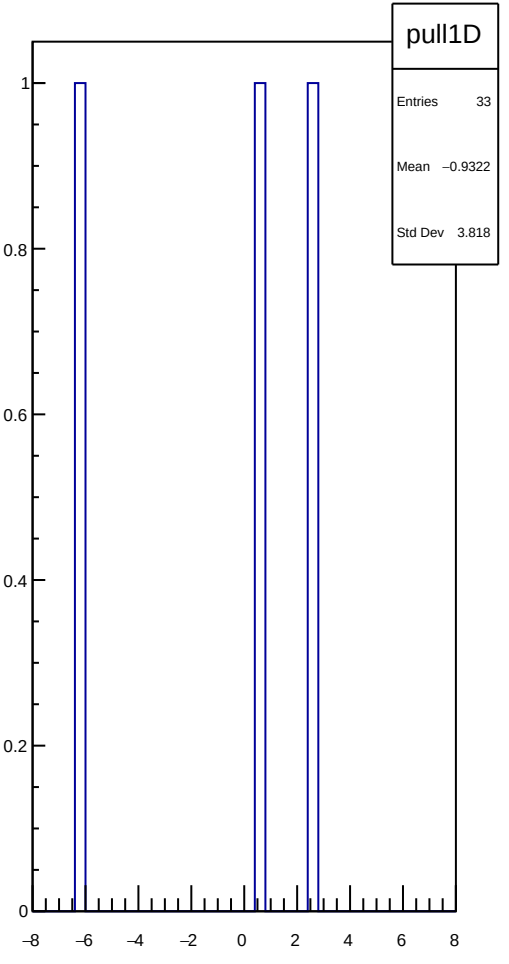
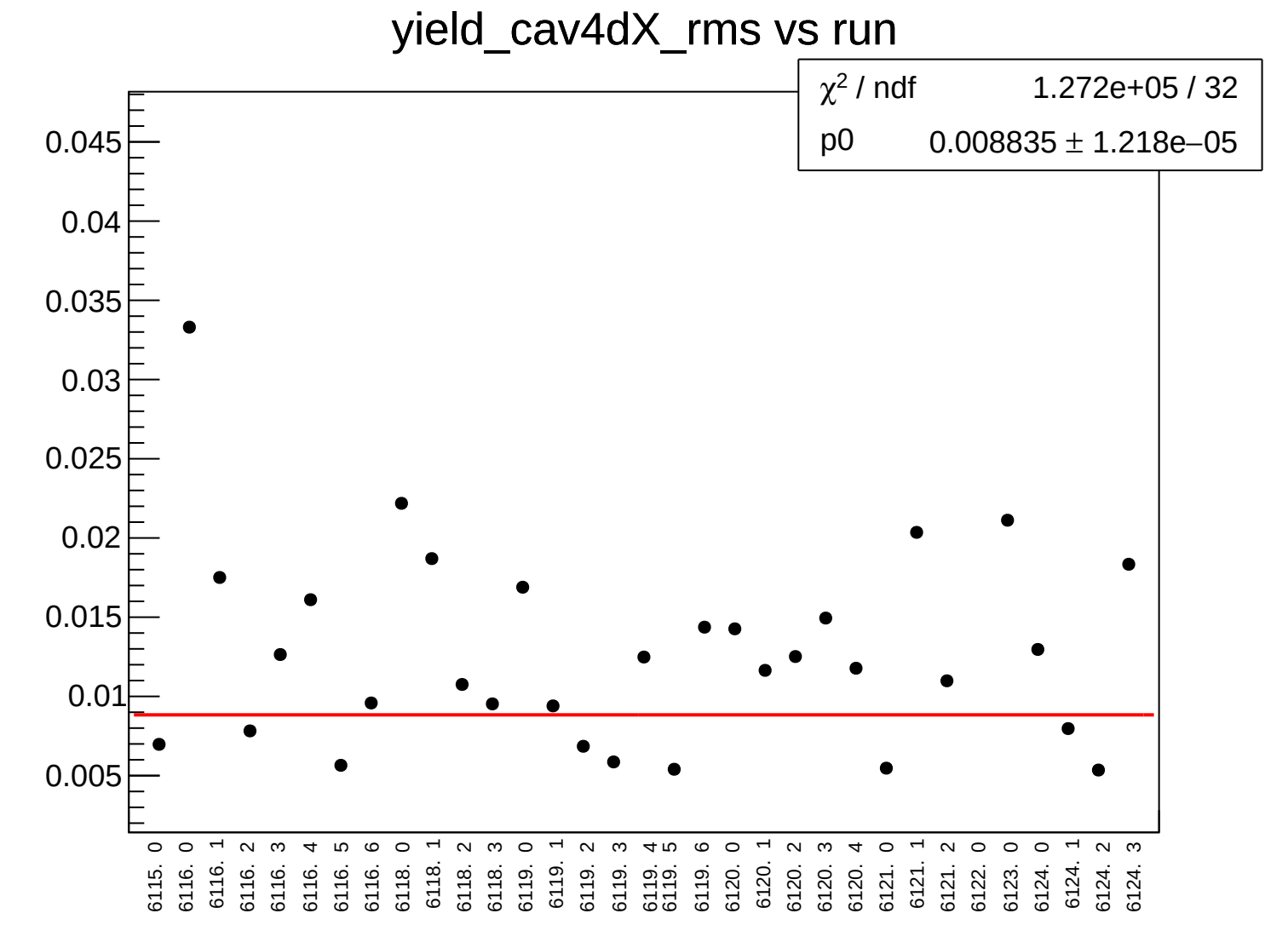
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

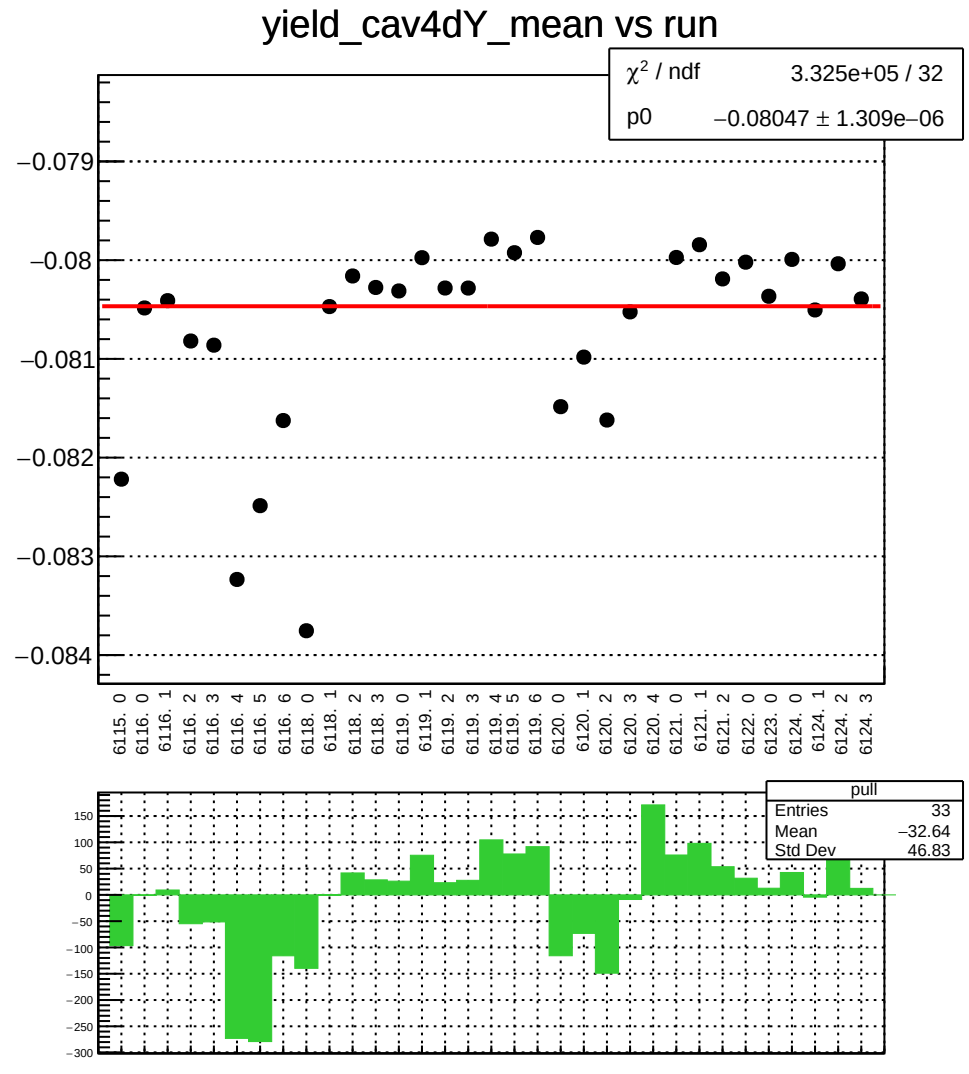

yield_cav4cY_mean vs run
χ² / ndf 1.276e+05 / 32
p0 −0.1232 ± 3.022e−06
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
−0.127
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −15.01
Std Dev 27.75
200
150
100
50
0
−50
−100
pull1D
Entries 33
Mean 0.6615
Std Dev 5.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

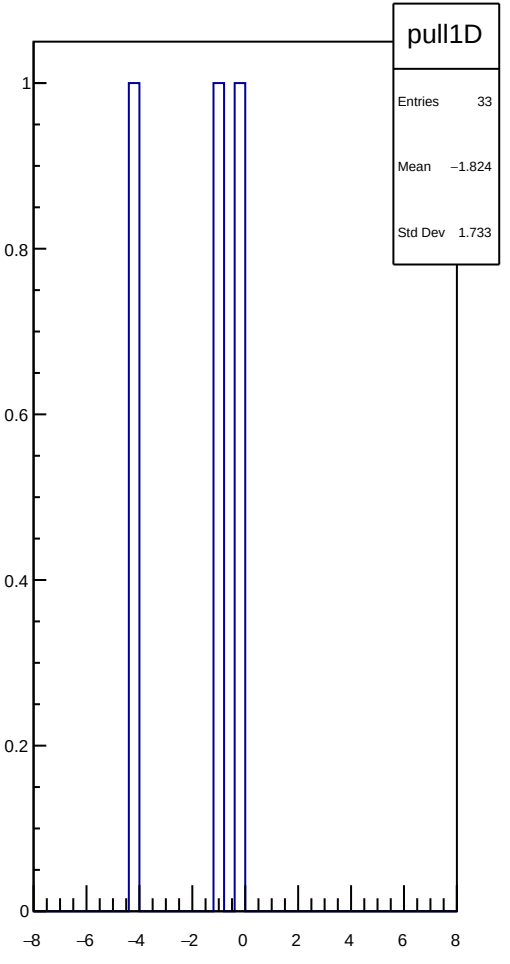

yield_cav4cY_rms vs run
χ² / ndf 5.053e+04 / 32
p0 0.001659 ± 2.137e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

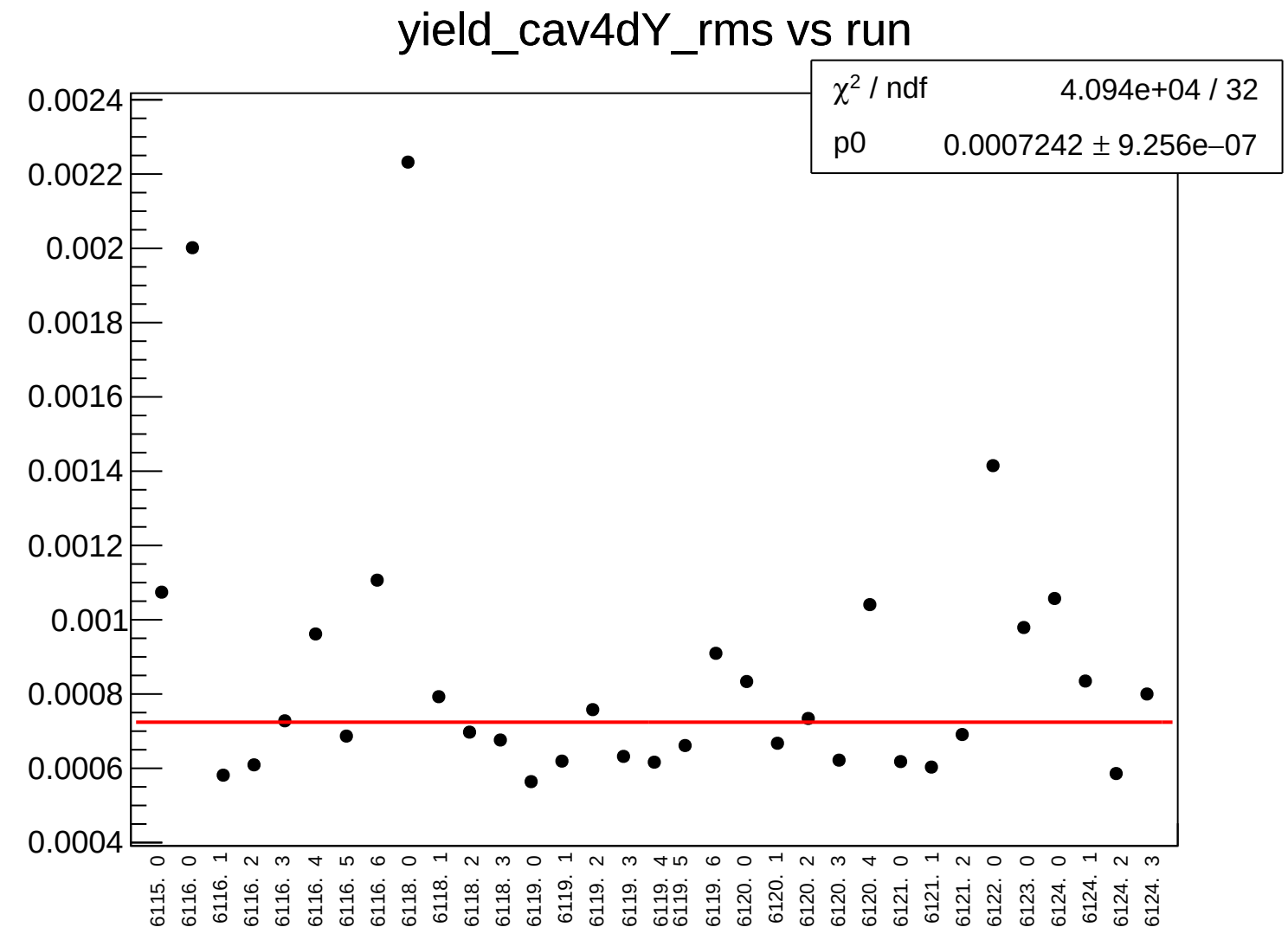

yield_cav4dX_mean vs run
χ² / ndf 7.294e+04 / 32
p0 0.05682 ± 1.723e−05
0.07
0.065
0.06
0.055
0.05
0.045
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −0.2737
Std Dev 11.48
100
50
0
−50
−100

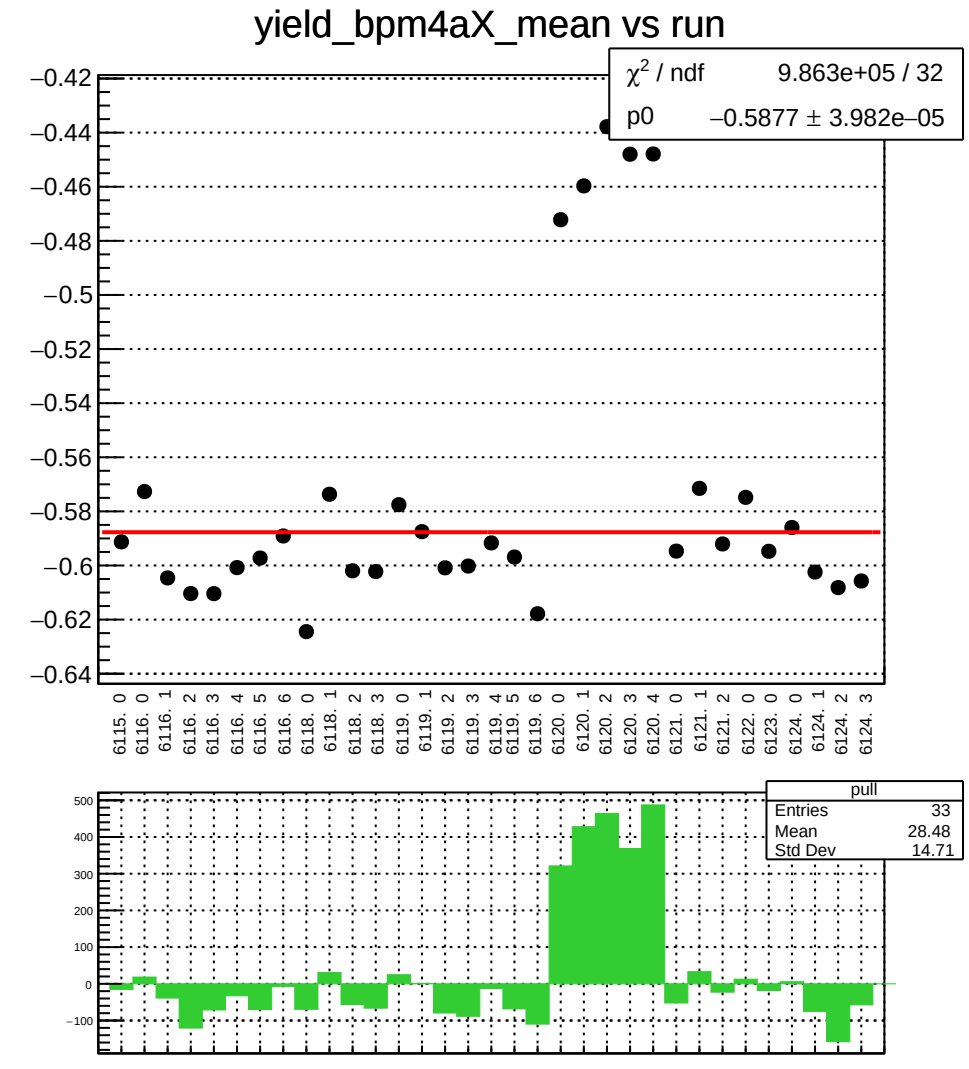

pull1D
Entries 33
Mean −0.9322
Std Dev 3.818
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

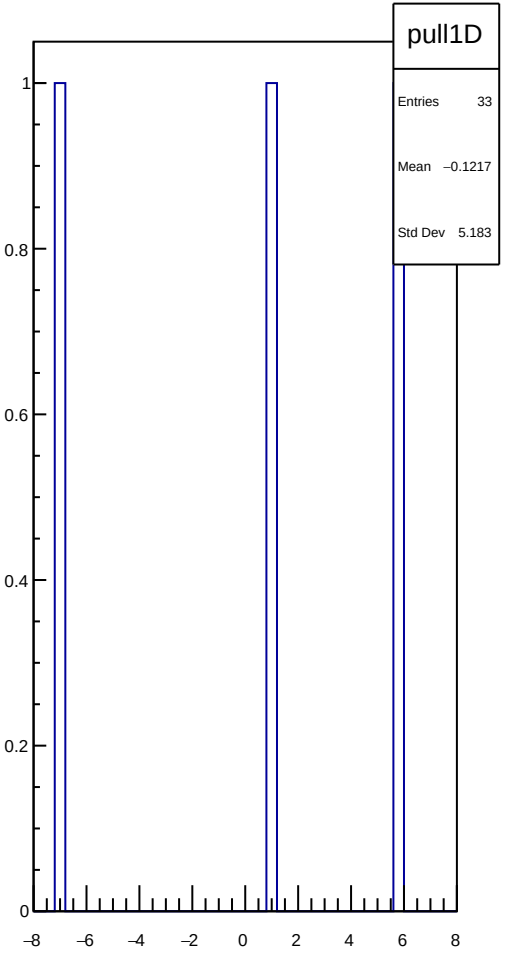

yield_cav4dX_rms vs run
χ² / ndf 1.272e+05 / 32
p0 0.008835 ± 1.218e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

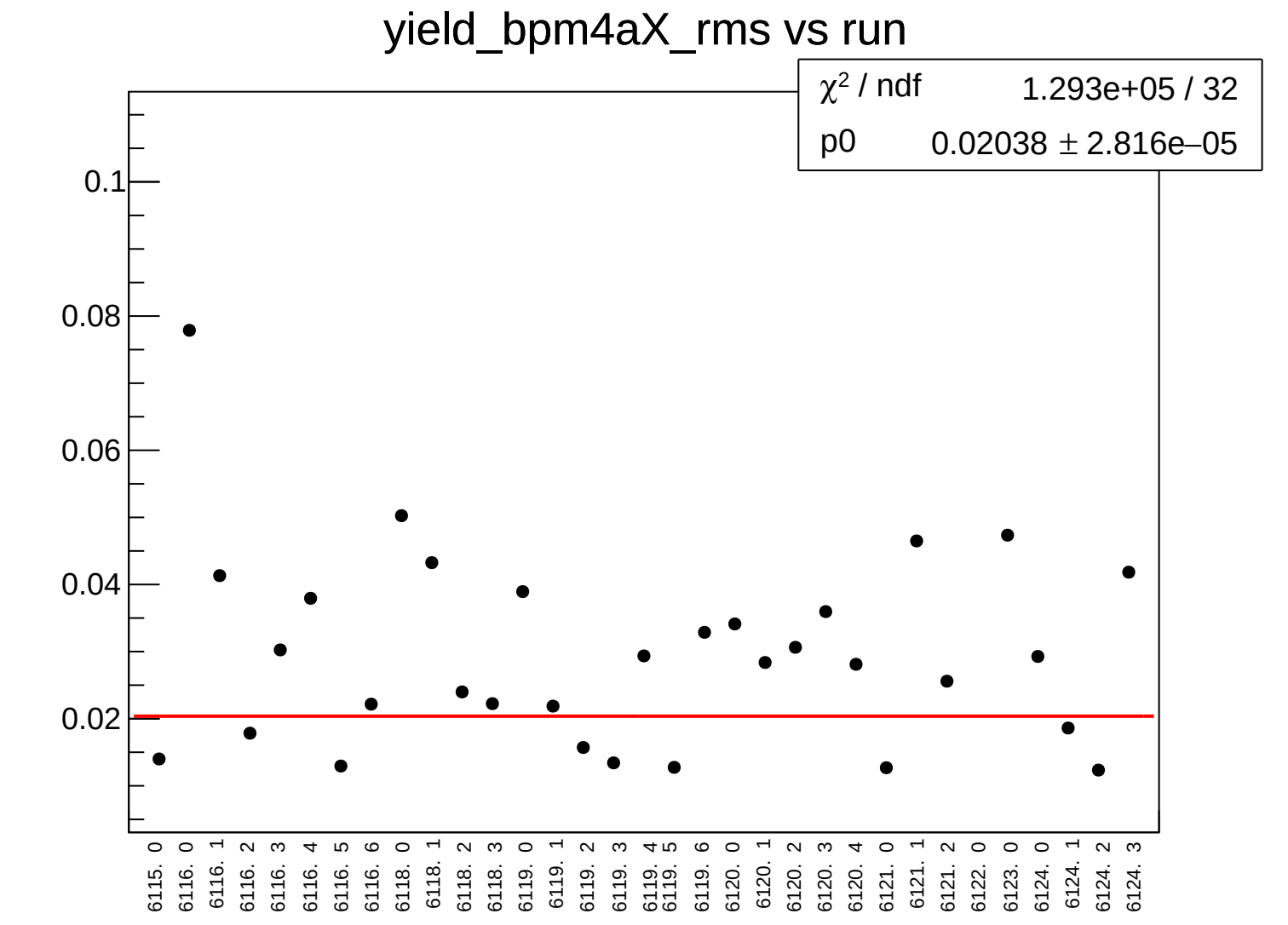

yield_cav4dY_mean vs run
χ² / ndf 3.325e+05 / 32
p0 −0.08047 ± 1.309e−06
−0.079
−0.08
−0.081
−0.082
−0.083
−0.084
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −32.64
Std Dev 46.83
150
100
50
0
−50
−100
−150
−200
−250
−300

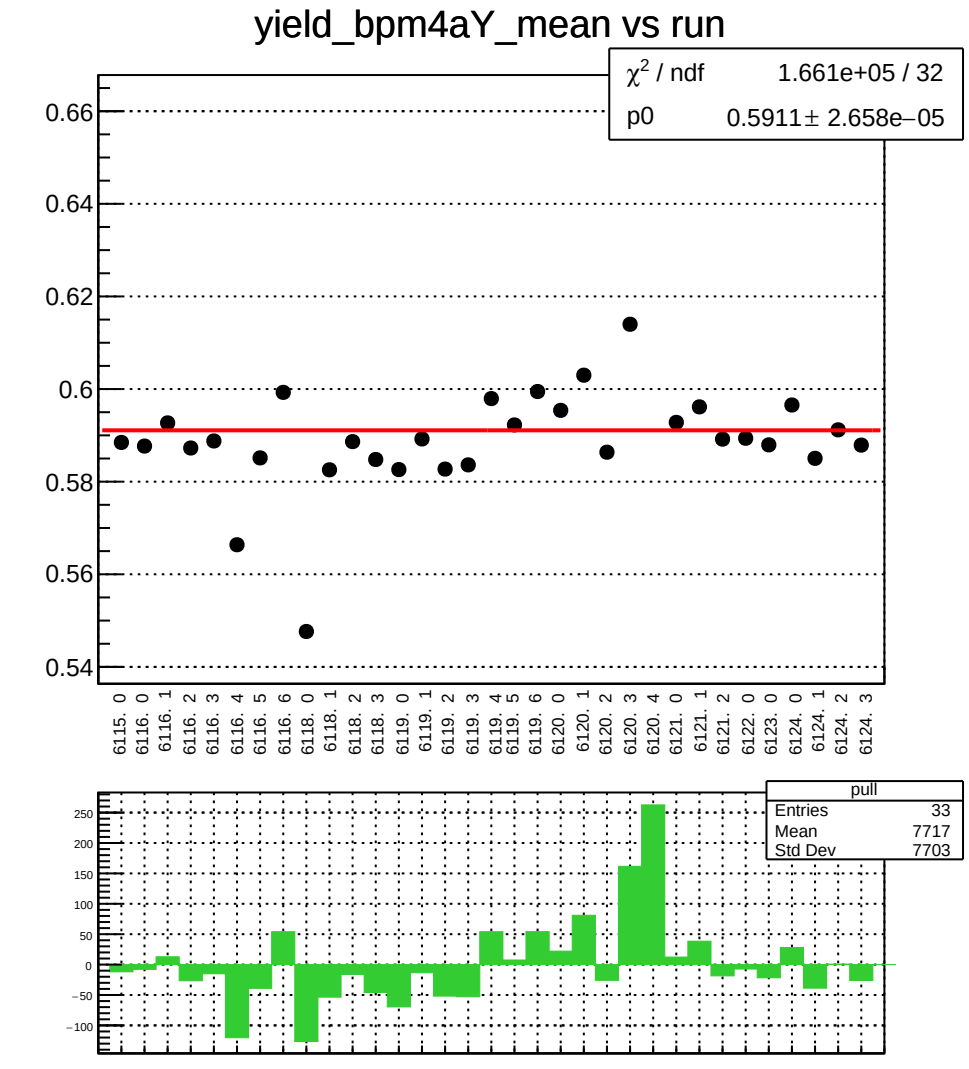

pull1D
Entries 33
Mean −1.824
Std Dev 1.733
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

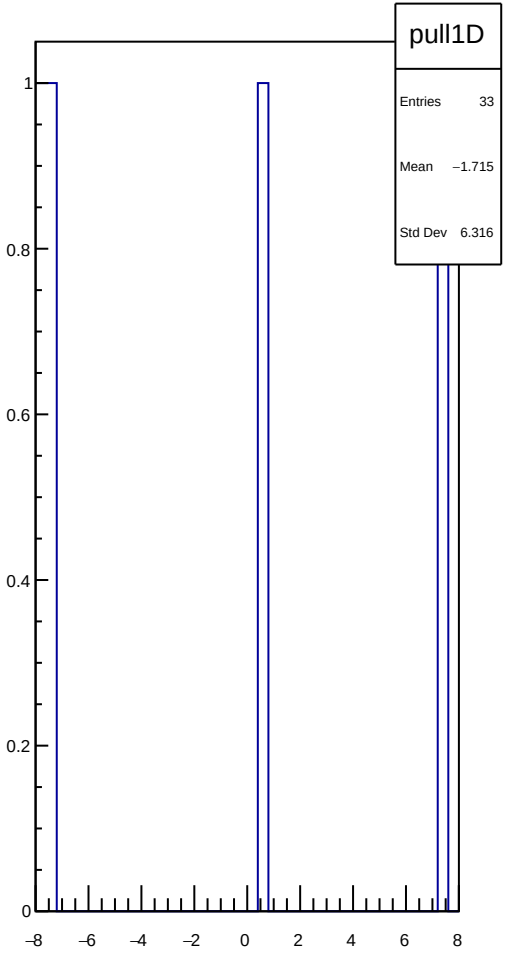

yield_cav4dY_rms vs run
χ² / ndf 4.094e+04 / 32
p0 0.0007242 ± 9.256e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

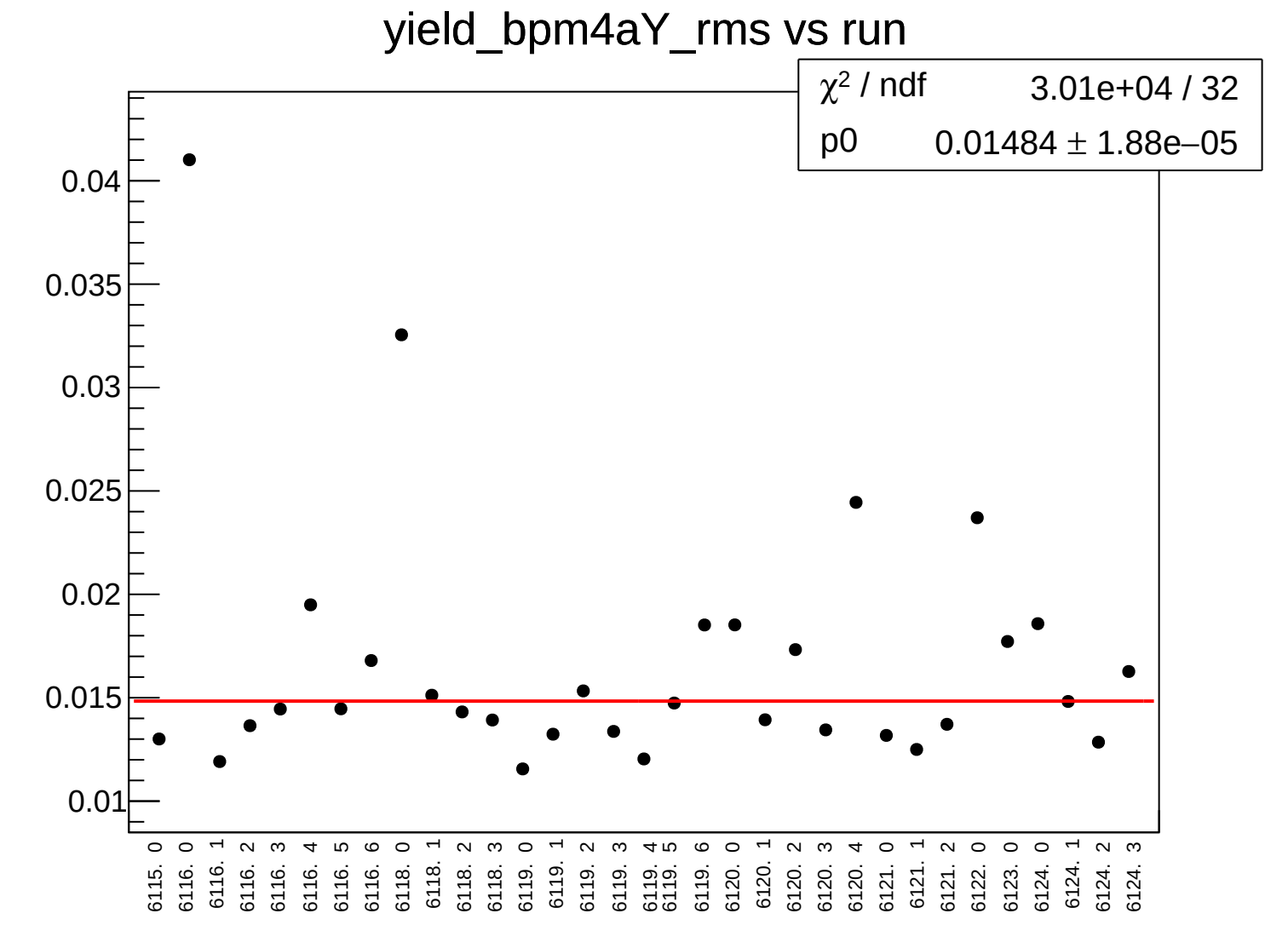

yield_bpm4aX_mean vs run
χ² / ndf 9.863e+05 / 32
p0 −0.5877 ± 3.982e−05
pull
Entries 33
Mean 28.48
Std Dev 14.71

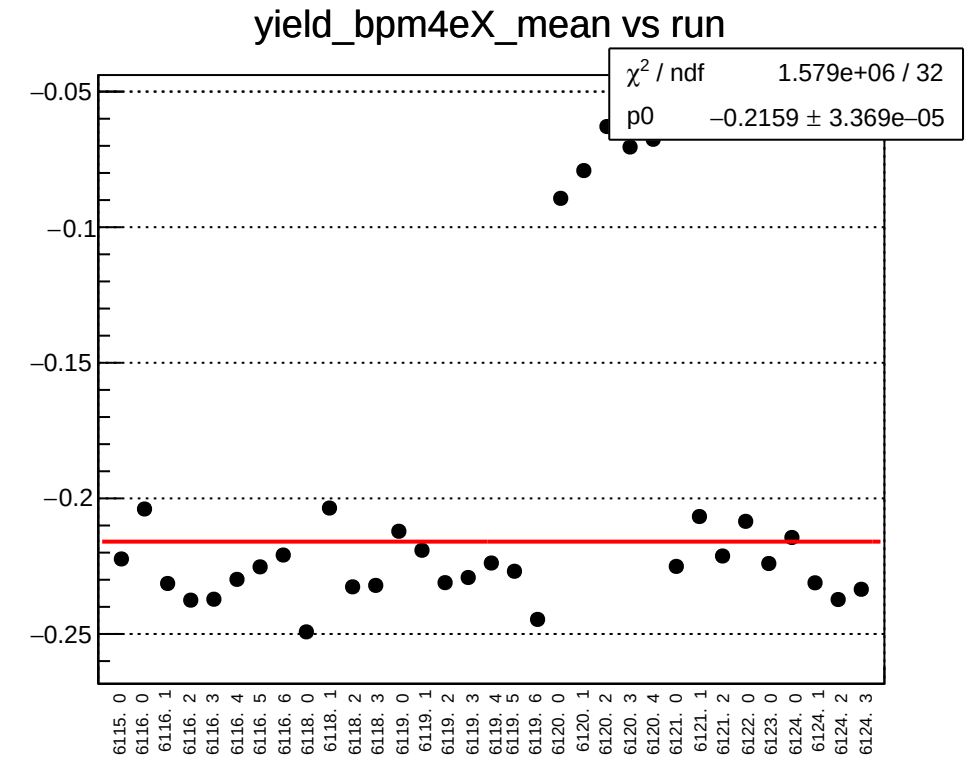

pull1D
Entries 33
Mean −0.1217
Std Dev 5.183

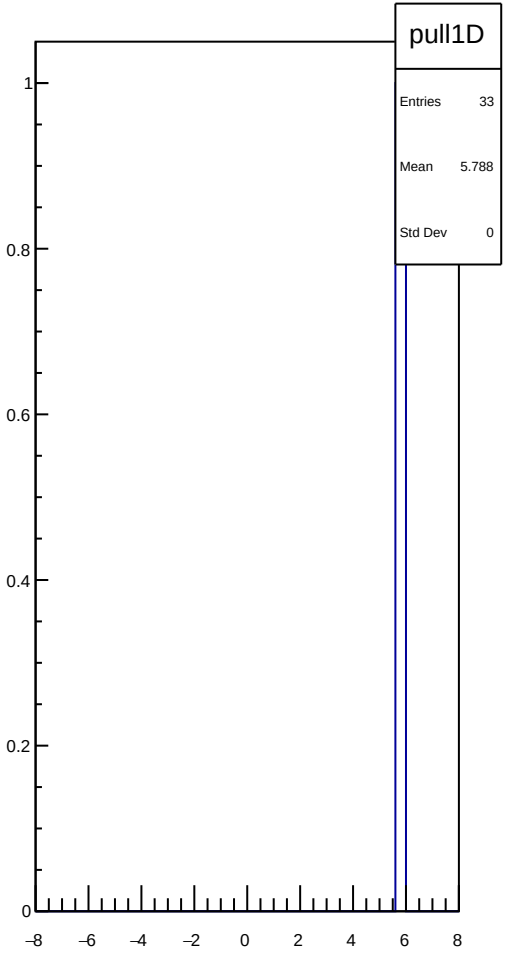

yield_bpm4aX_rms vs run
χ² / ndf 1.293e+05 / 32
p0 0.02038 ± 2.816e–05
0.1
0.08
0.06
0.04
0.02
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

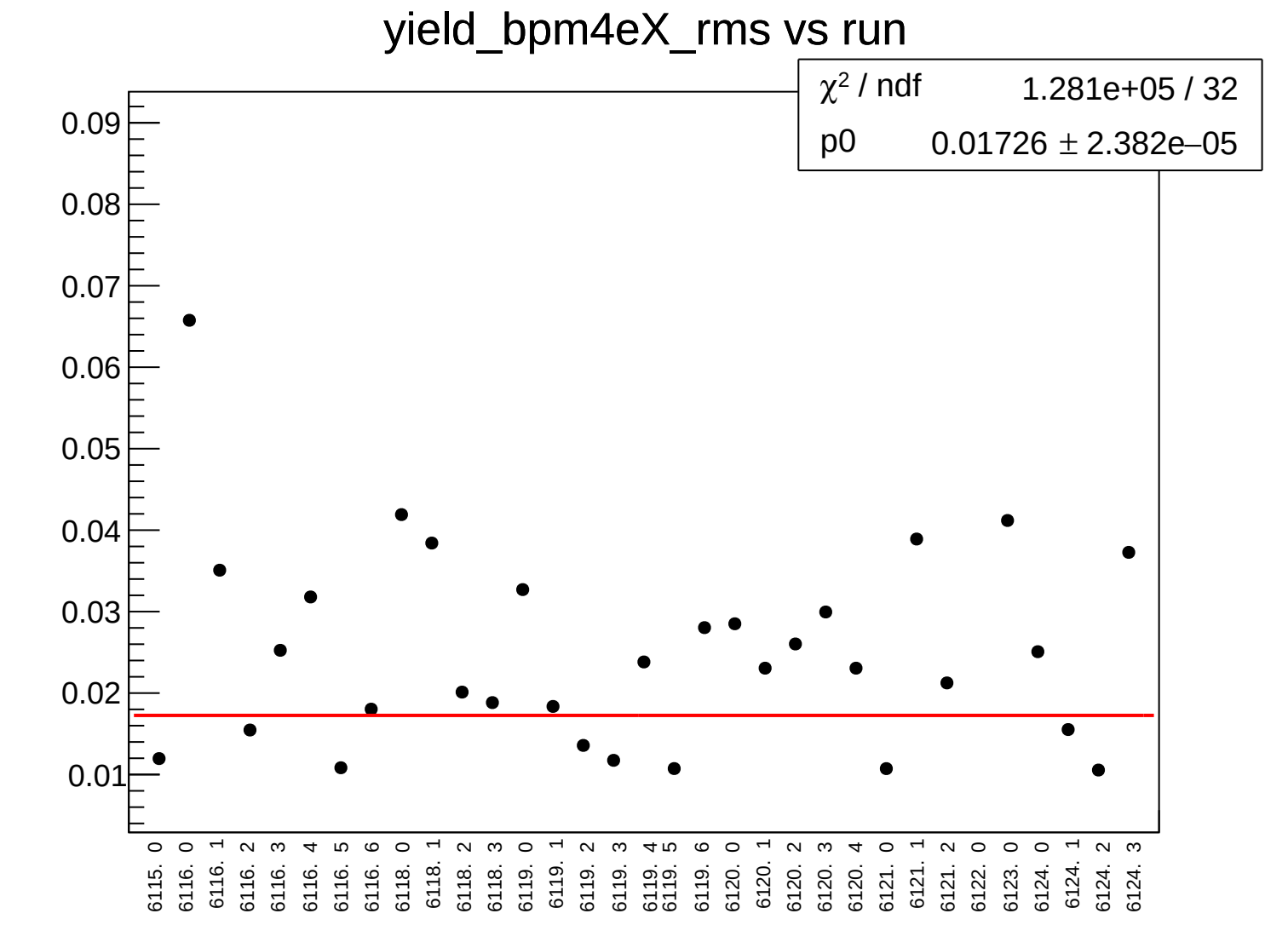

yield_bpm4aY_mean vs run
χ² / ndf 1.661e+05 / 32
p0 0.5911 ± 2.658e−05
0.66
0.64
0.62
0.6
0.58
0.56
0.54
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 7717
Std Dev 7703
250
200
150
100
50
0
−50
−100

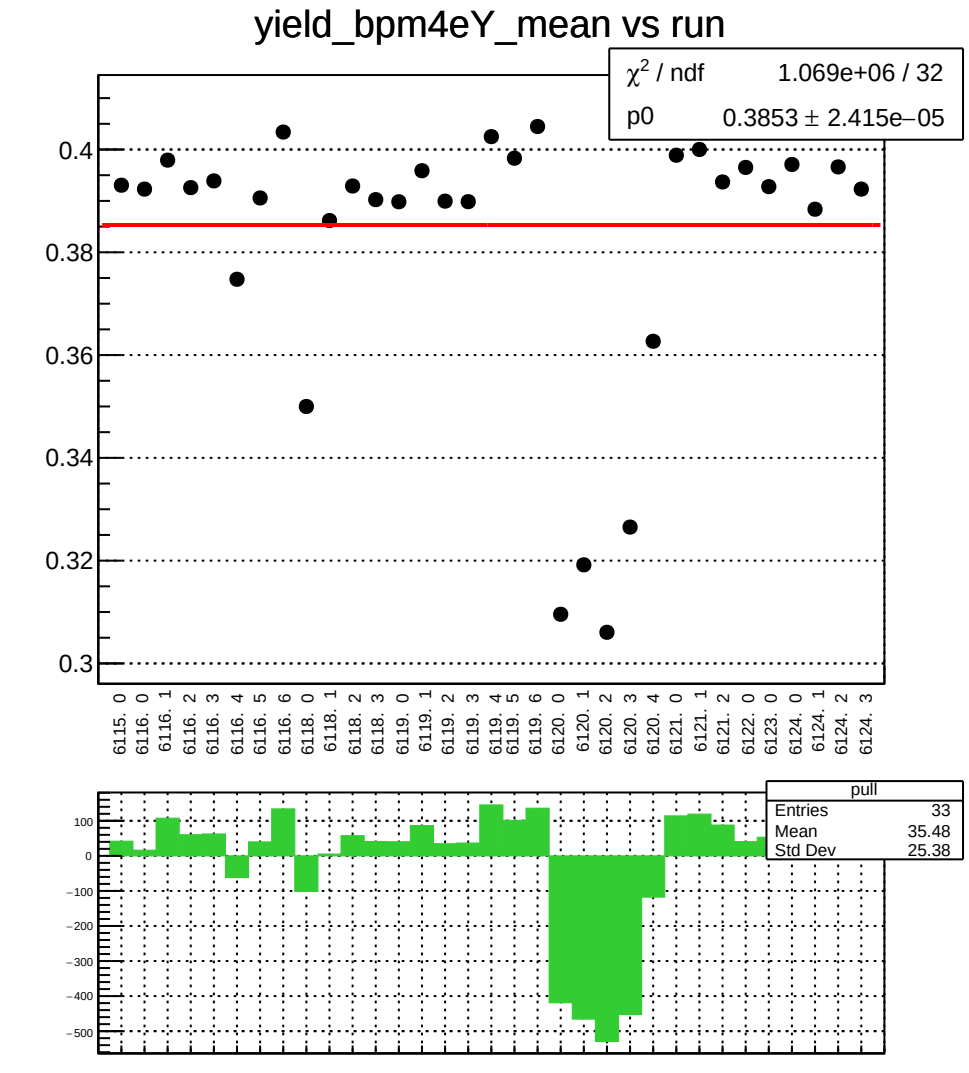

pull1D
Entries 33
Mean −1.715
Std Dev 6.316
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

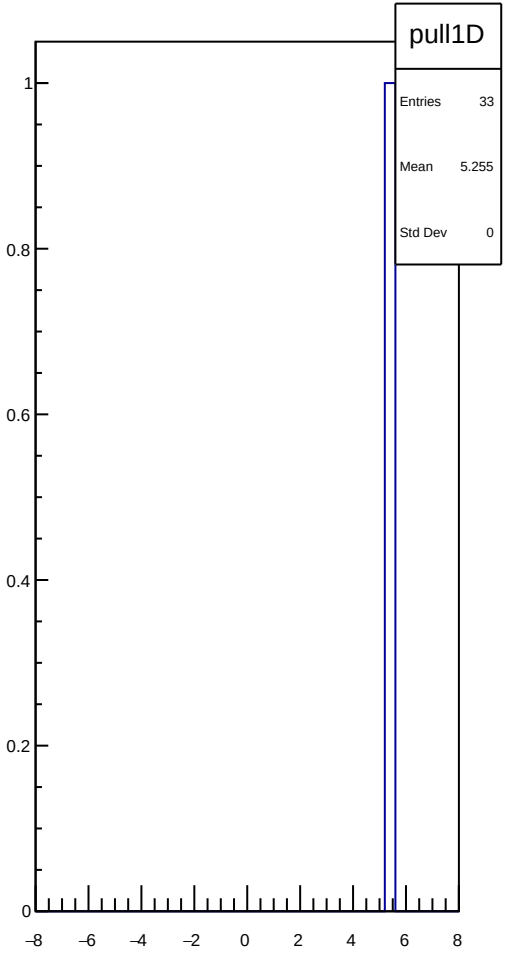

yield_bpm4aY_rms vs run
χ² / ndf 3.01e+04 / 32
p0 0.01484 ± 1.88e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

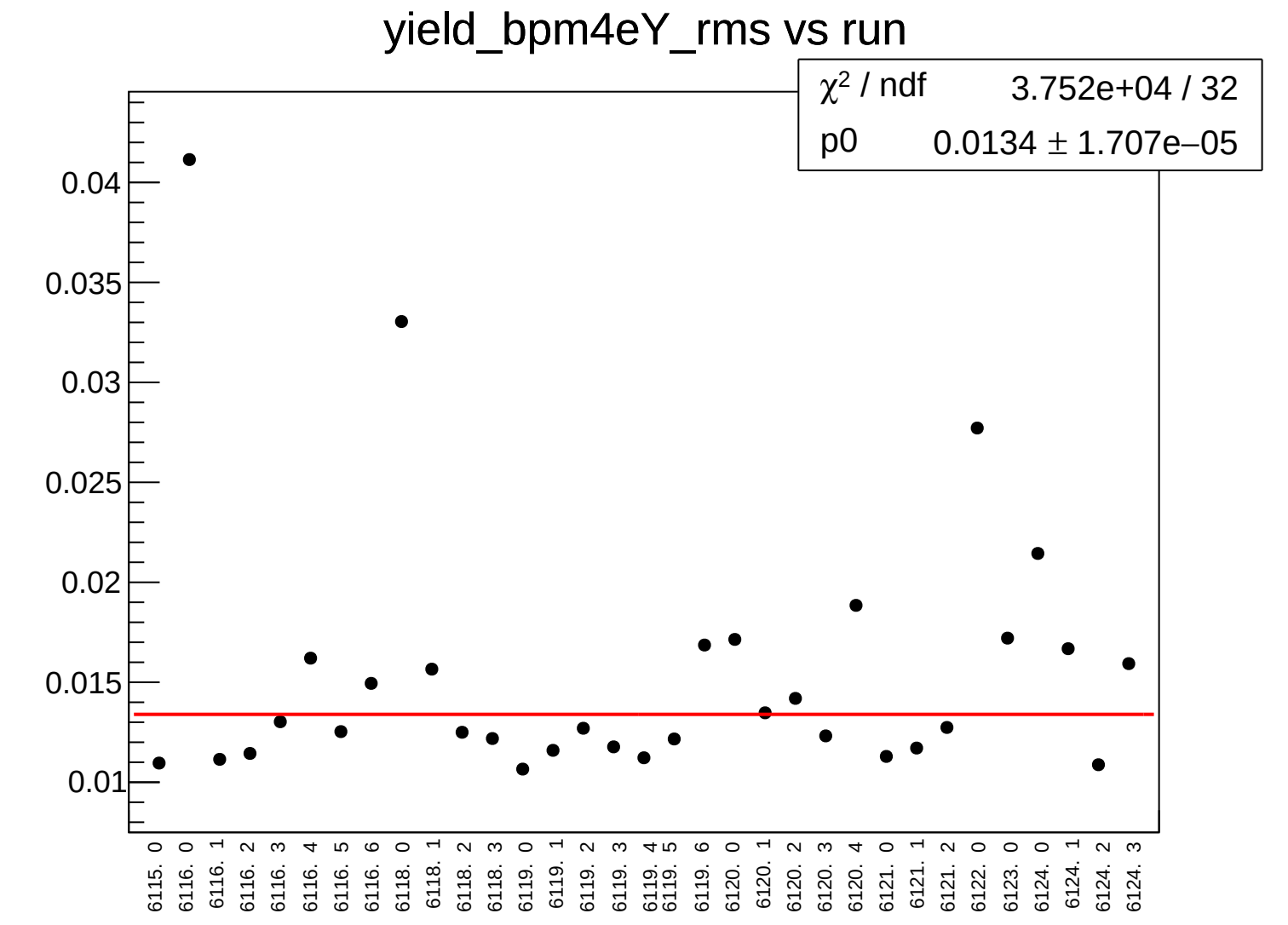

yield_bpm4eX_mean vs run
χ² / ndf 1.579e+06 / 32
p0 −0.2159 ± 3.369e−05
−0.05
−0.1
−0.15
−0.2
−0.25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 29.16
Std Dev 15.37
600
500
400
300
200
100
0
−100
−200

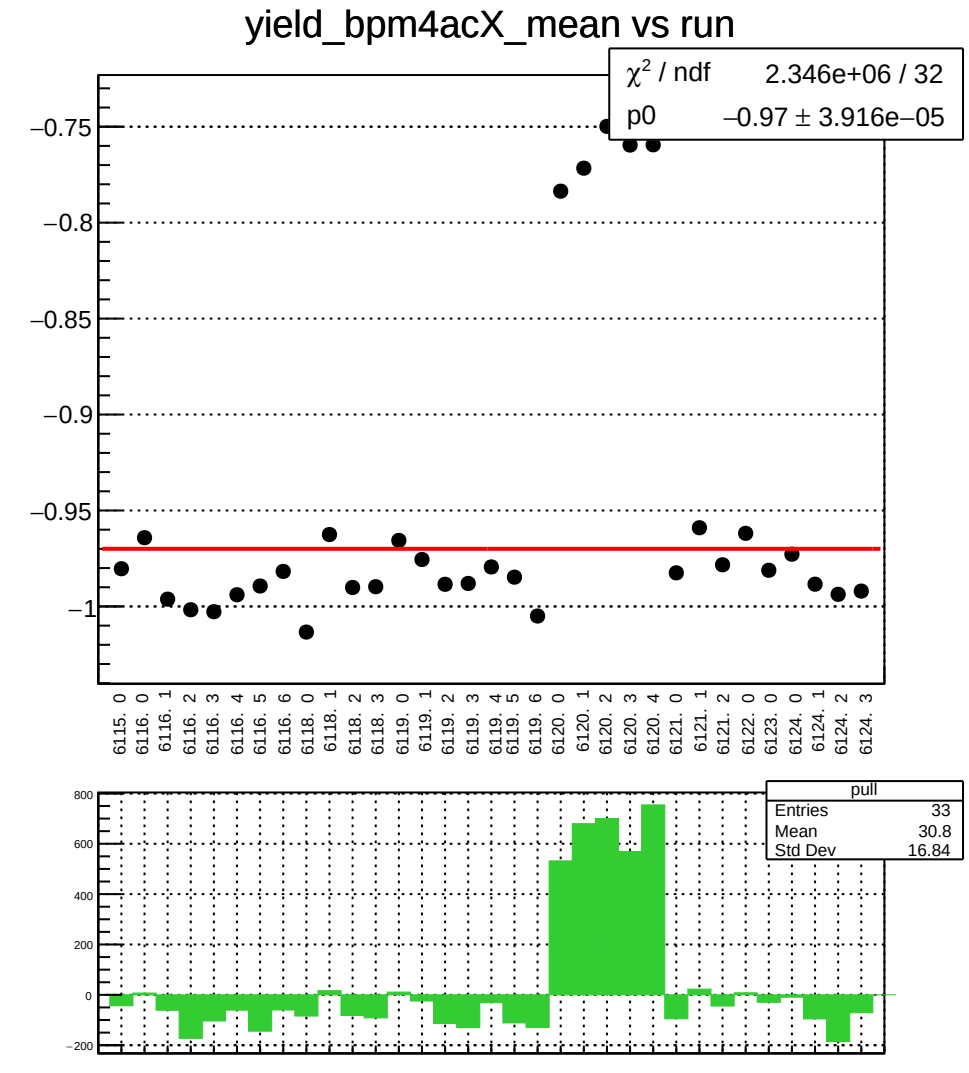

pull1D
Entries 33
Mean 5.788
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

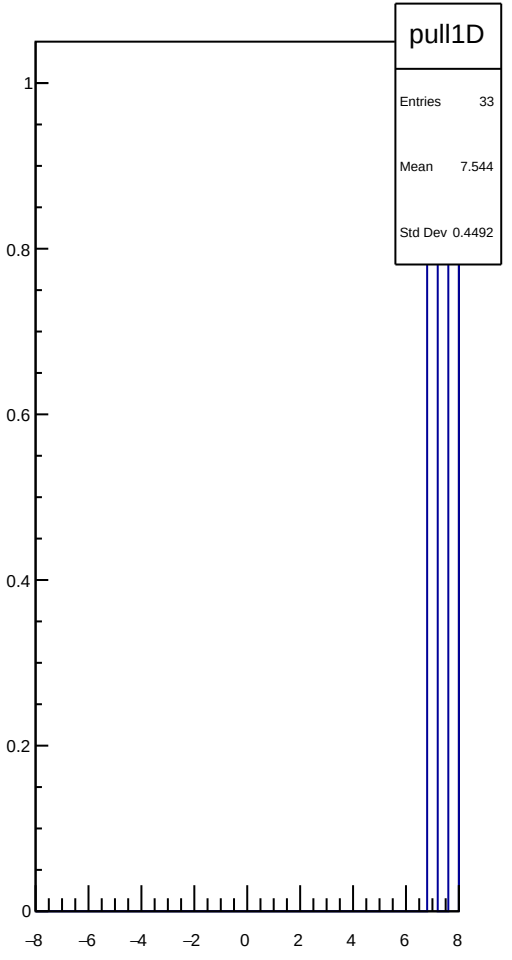

yield_bpm4eX_rms vs run
χ² / ndf 1.281e+05 / 32
p0 0.01726 ± 2.382e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

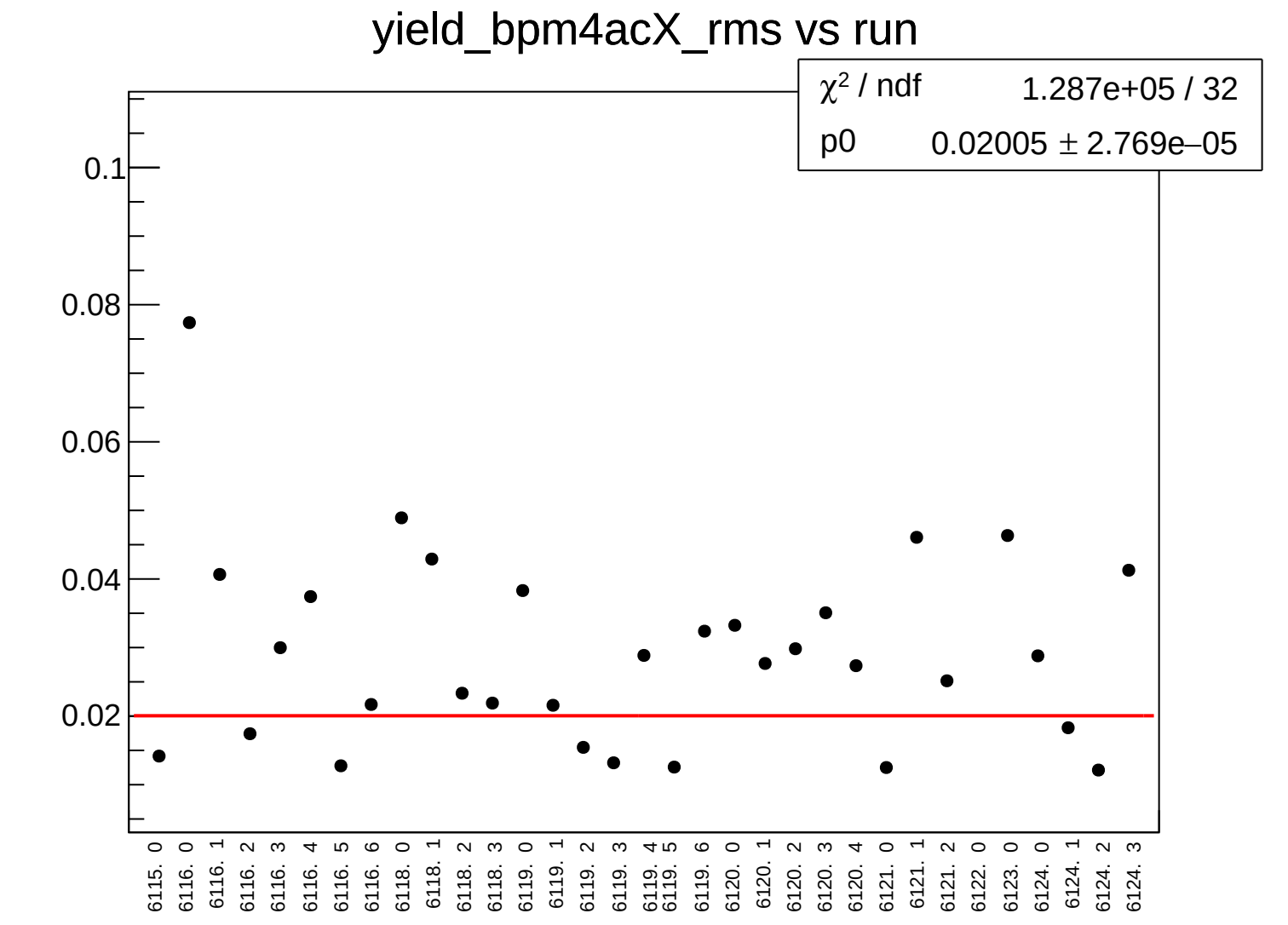

yield_bpm4eY_mean vs run
χ² / ndf 1.069e+06 / 32
p0 0.3853 ± 2.415e−05
0.4
0.38
0.36
0.34
0.32
0.3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 35.48
Std Dev 25.38
100
0
−100
−200
−300
−400
−500

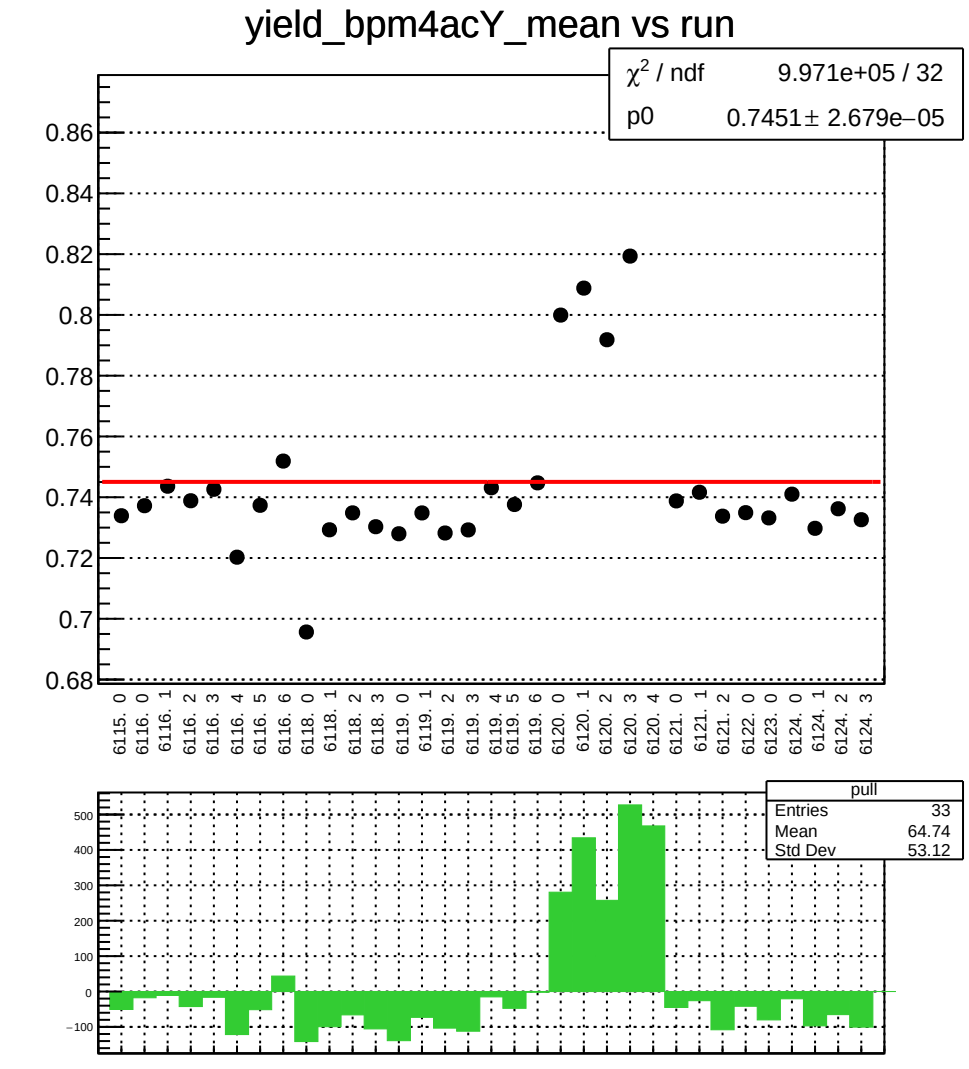

pull1D
Entries 33
Mean 5.255
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

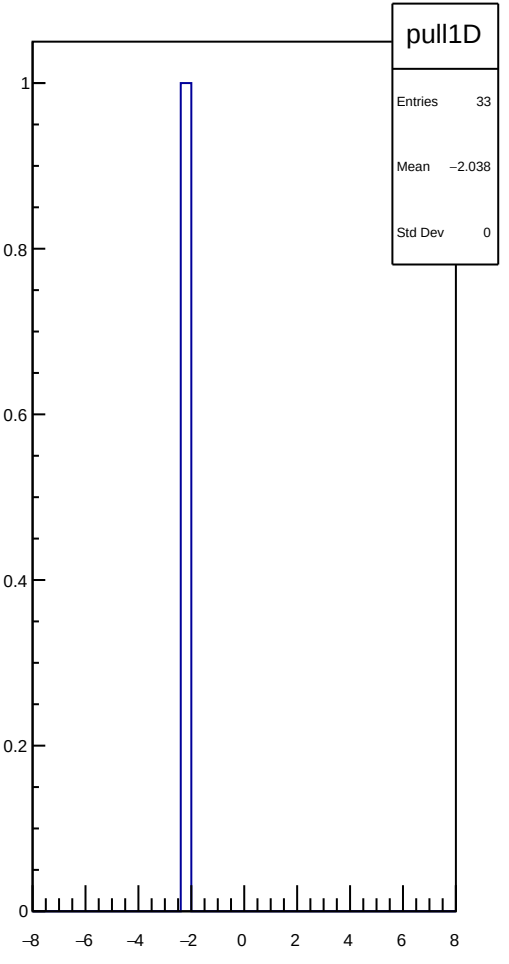

yield_bpm4eY_rms vs run
χ² / ndf 3.752e+04 / 32
p0 0.0134 ± 1.707e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

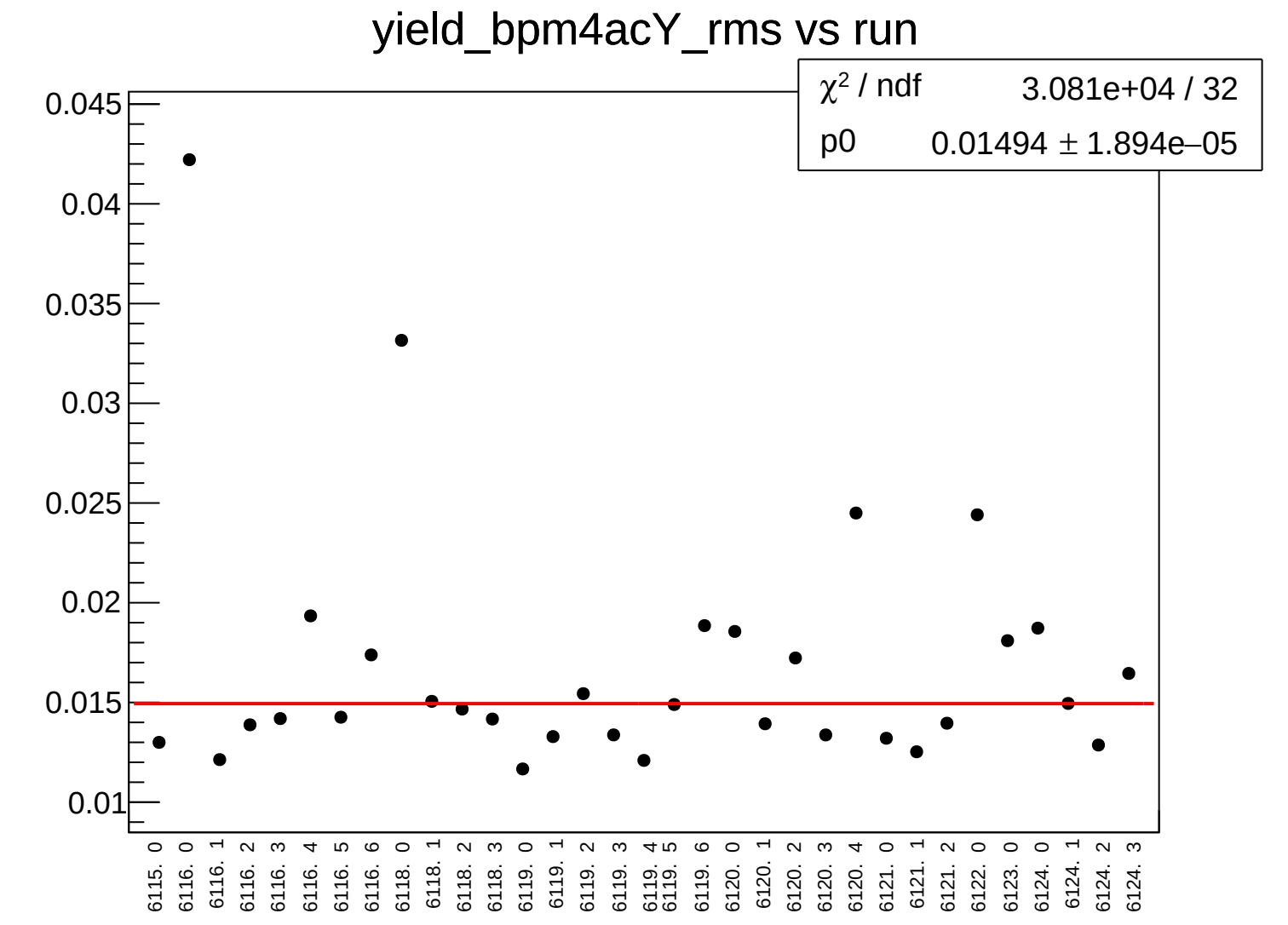

yield_bpm4acX_mean vs run
χ² / ndf 2.346e+06 / 32
p0 −0.97 ± 3.916e−05
−0.75
−0.8
−0.85
−0.9
−0.95
−1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 30.8
Std Dev 16.84
800
600
400
200
0
−200

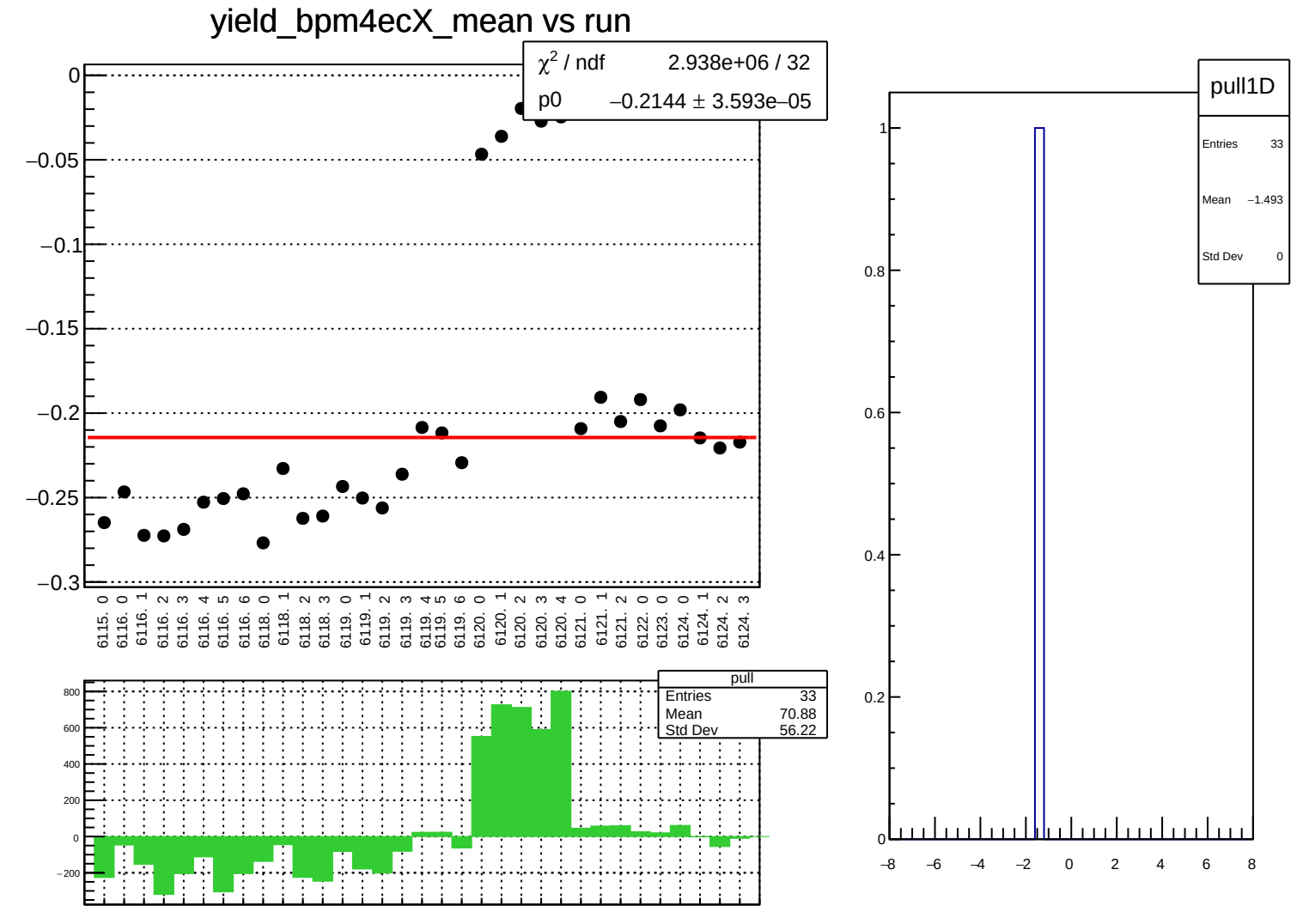

pull1D
Entries 33
Mean 7.544
Std Dev 0.4492
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

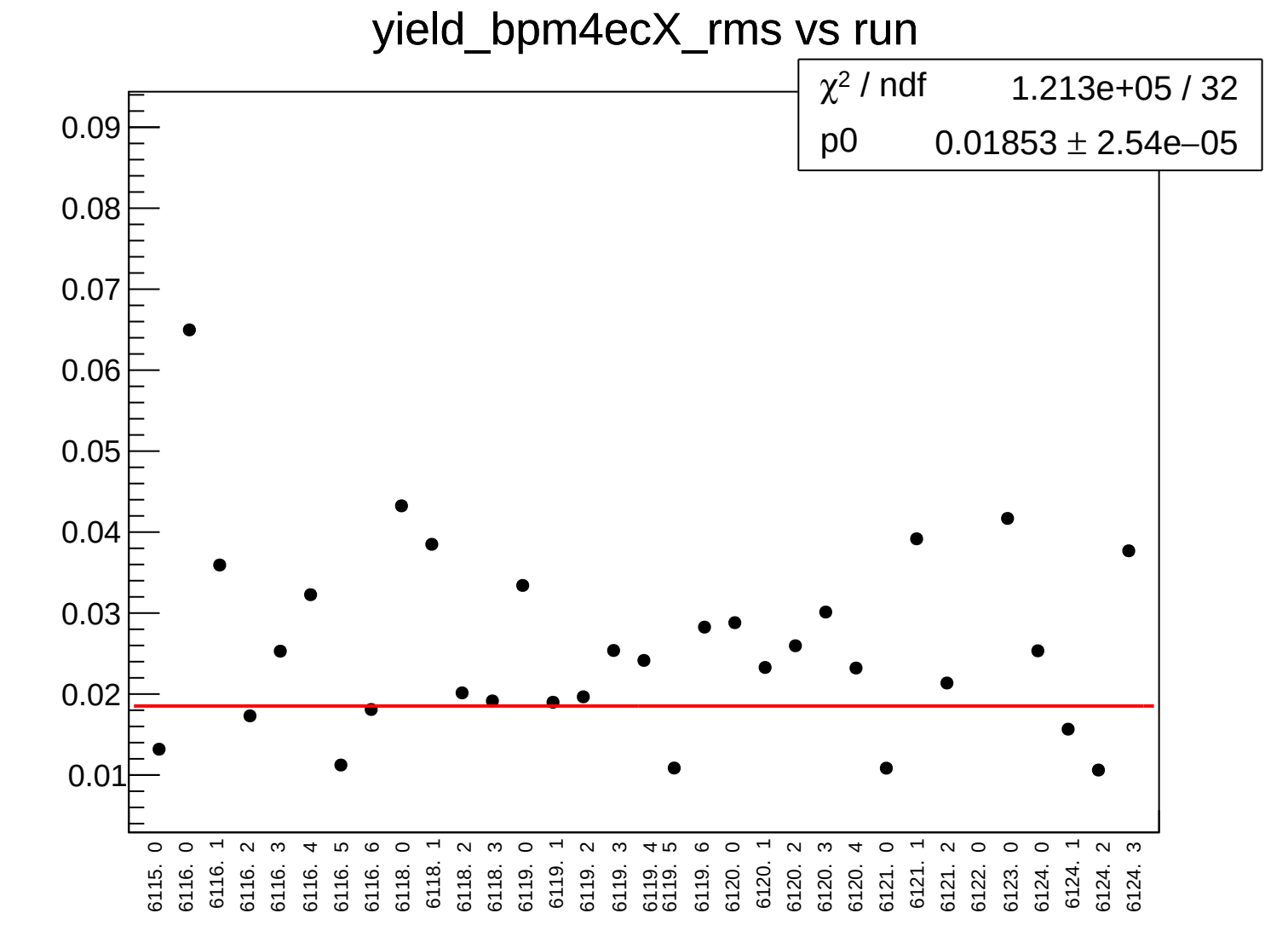

yield_bpm4acX_rms vs run
χ² / ndf 1.287e+05 / 32
p0 0.02005 ± 2.769e–05
0.1
0.08
0.06
0.04
0.02
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

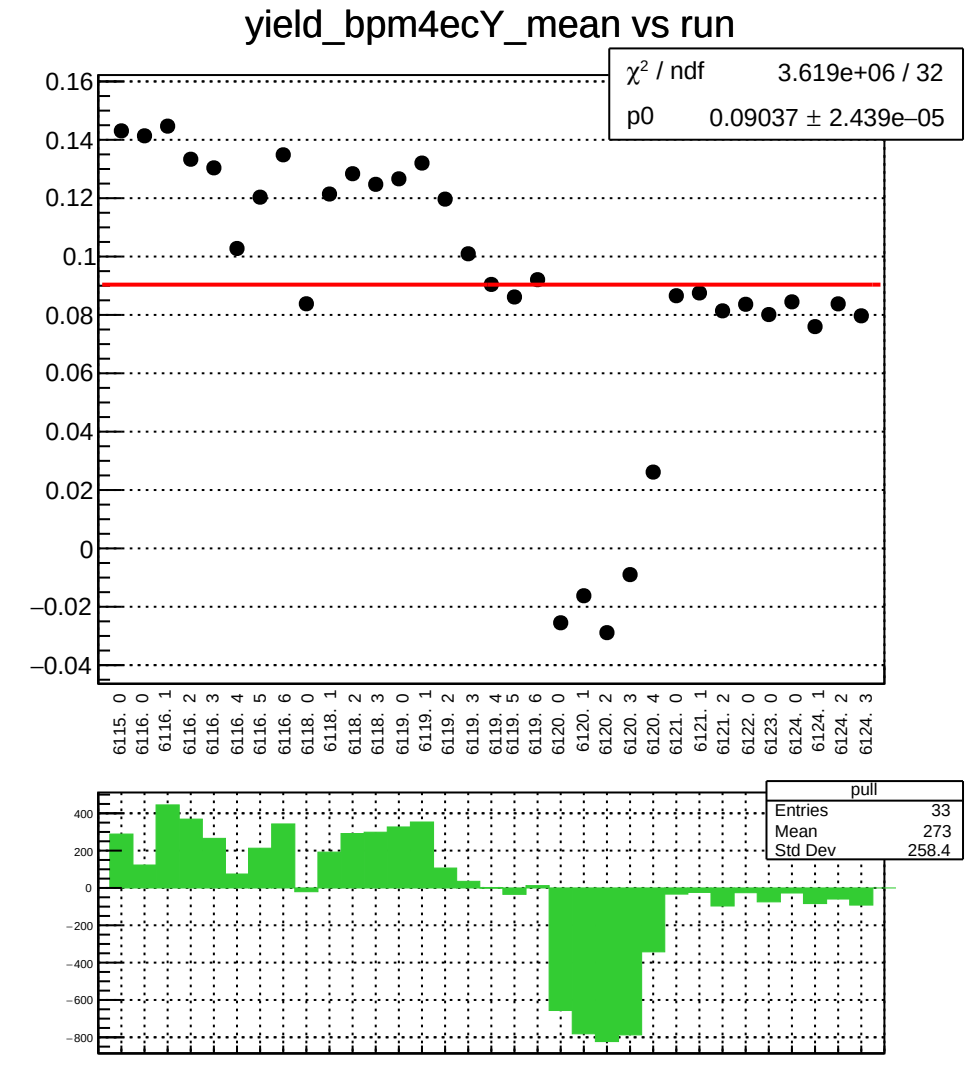

yield_bpm4acY_mean vs run
χ² / ndf 9.971e+05 / 32
p0 0.7451 ± 2.679e−05
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 64.74
Std Dev 53.12
500
400
300
200
100
0
−100

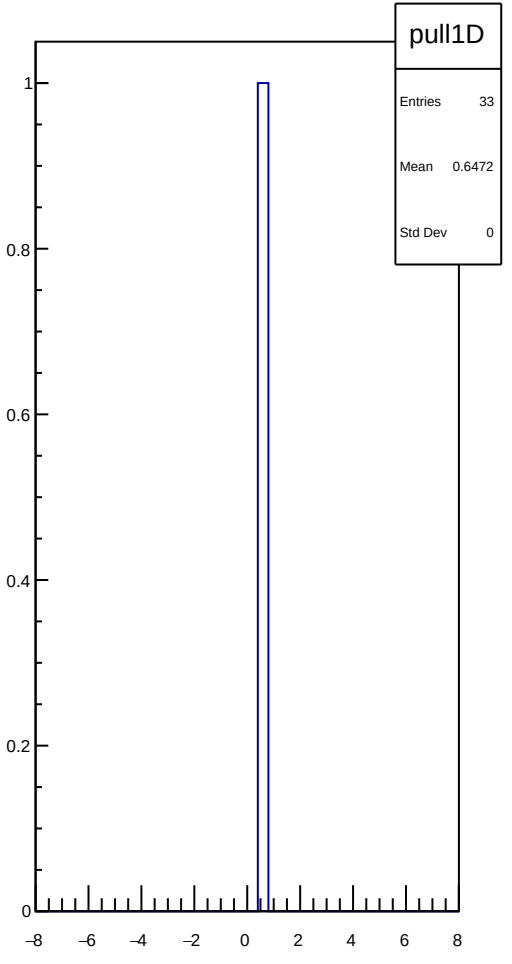

pull1D
Entries 33
Mean −2.038
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

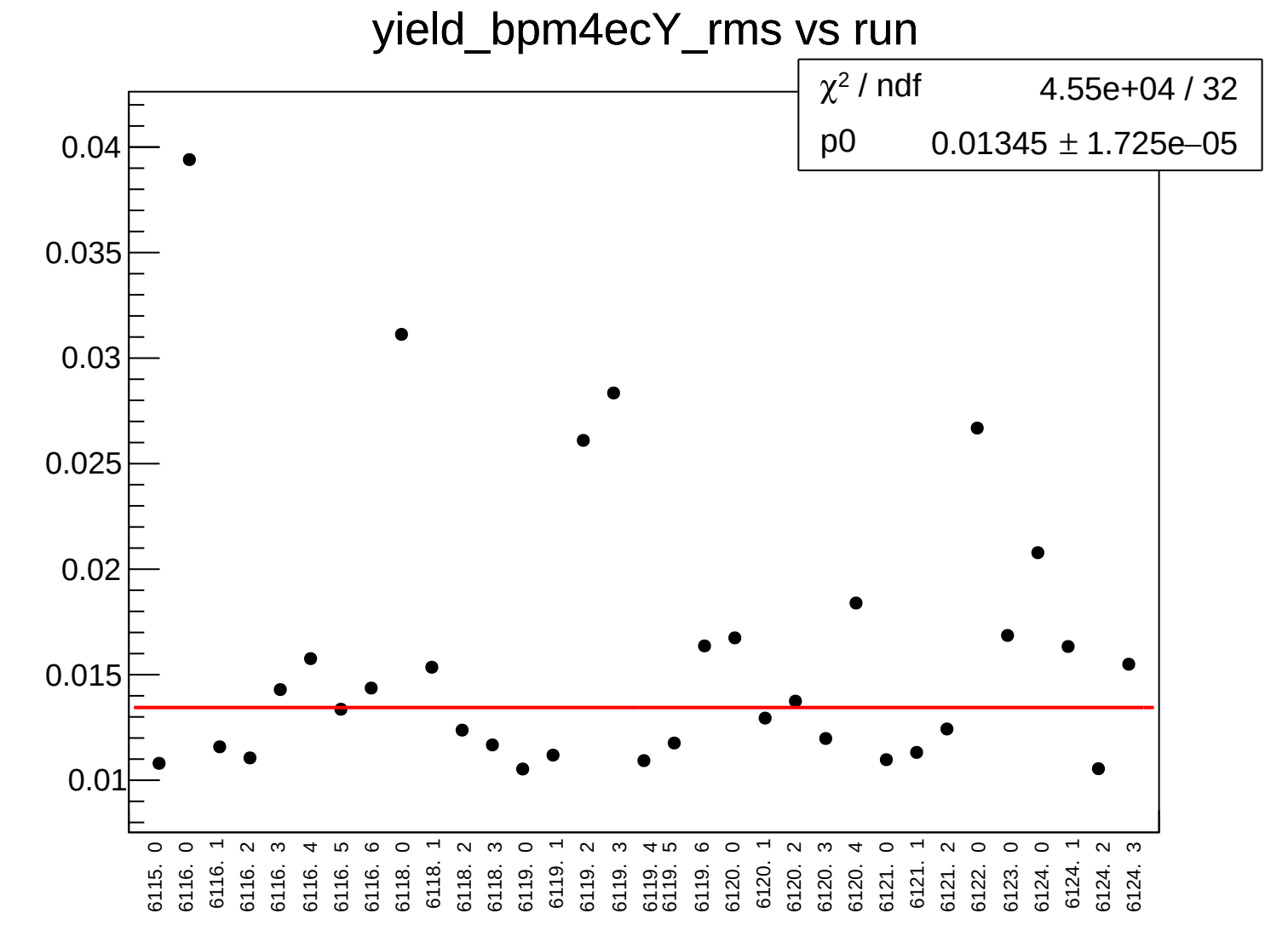

yield_bpm4acY_rms vs run
χ² / ndf 3.081e+04 / 32
p0 0.01494 ± 1.894e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_bpm4ecX_mean vs run
χ² / ndf 2.938e+06 / 32
p0 −0.2144 ± 3.593e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 70.88
Std Dev 56.22
800
600
400
200
0
−200
pull1D
Entries 33
Mean −1.493
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecX_rms vs run
χ² / ndf 1.213e+05 / 32
p0 0.01853 ± 2.54e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_bpm4ecY_mean vs run
χ² / ndf 3.619e+06 / 32
p0 0.09037 ± 2.439e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
–0.02
–0.04
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 273
Std Dev 258.4
400
200
0
–200
–400
–600
–800


pull1D
Entries 33
Mean 0.6472
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 4.55e+04 / 32
p0 0.01345 ± 1.725e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
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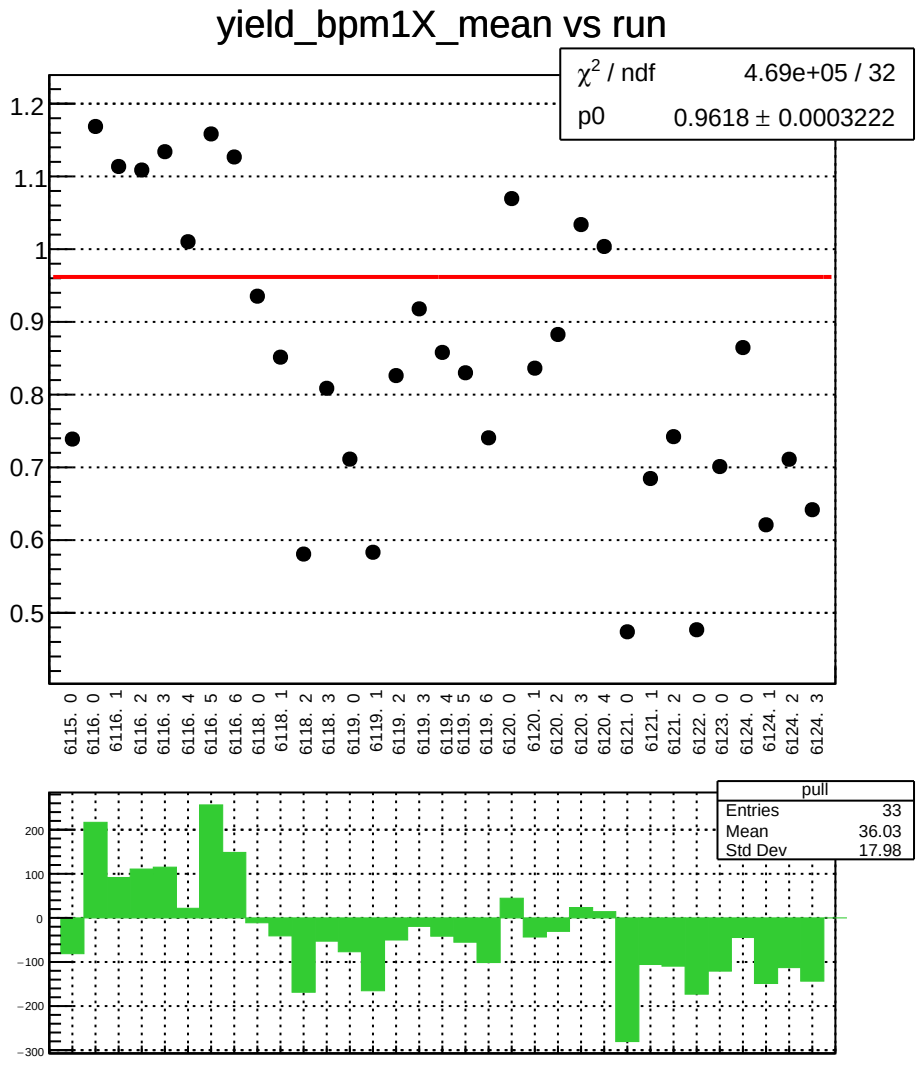
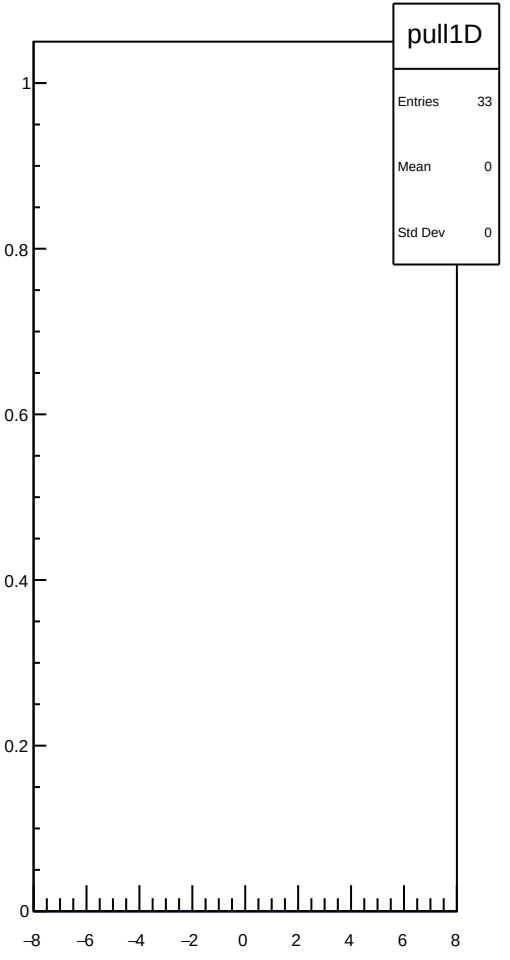
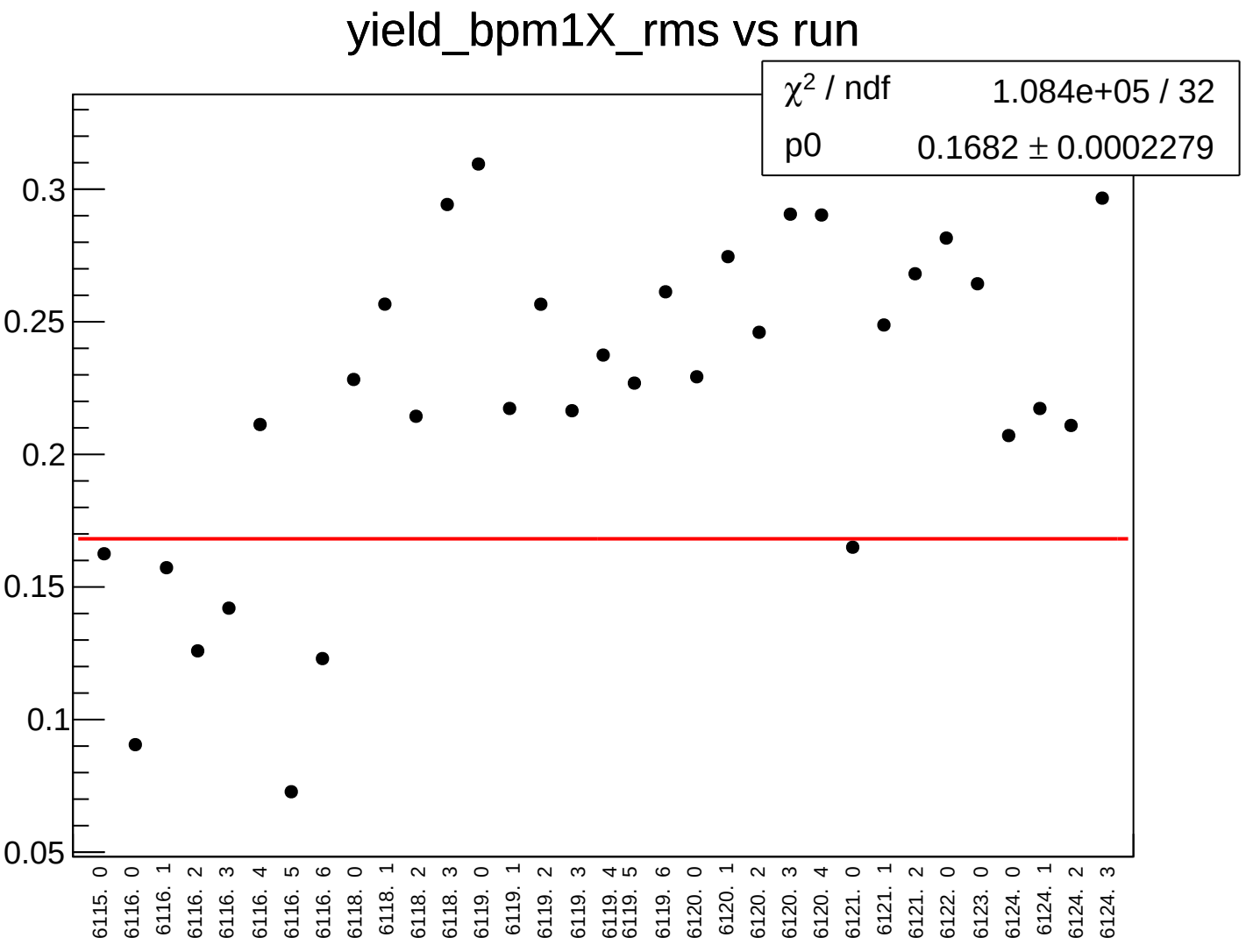
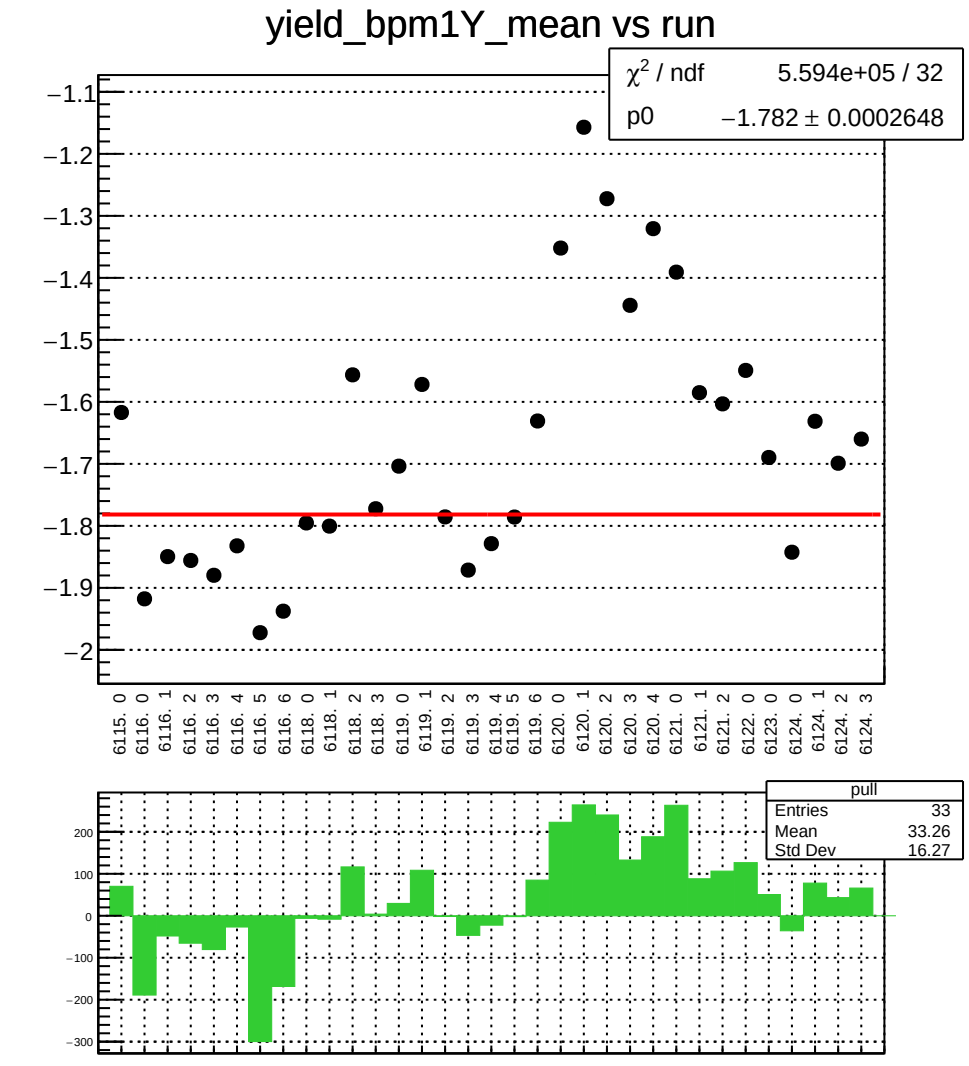
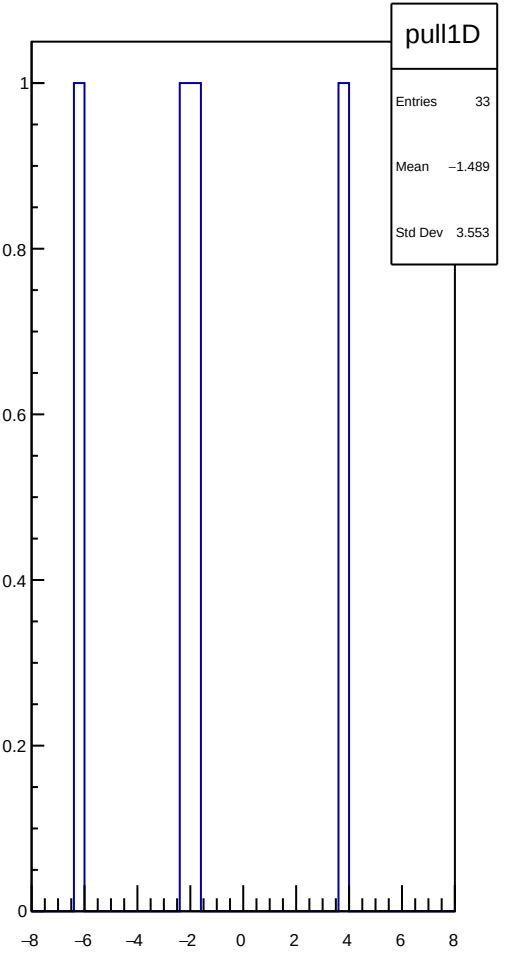
6124. 0
6124. 1
6124. 2
6124. 3

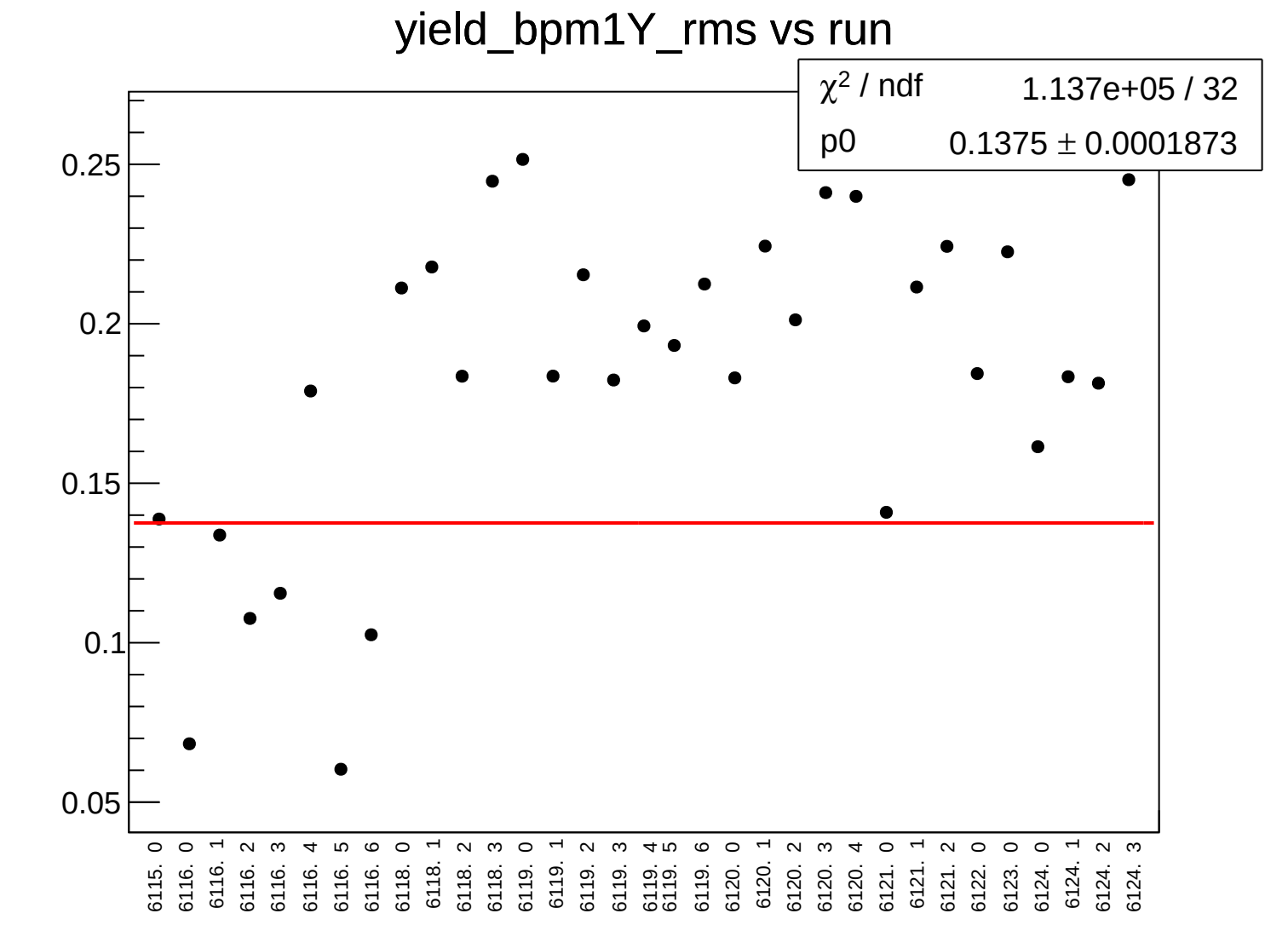

yield_bpm1X_mean vs run
χ² / ndf 4.69e+05 / 32
p0 0.9618 ± 0.0003222
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 36.03
Std Dev 17.98
200
100
0
−100
−200
−300

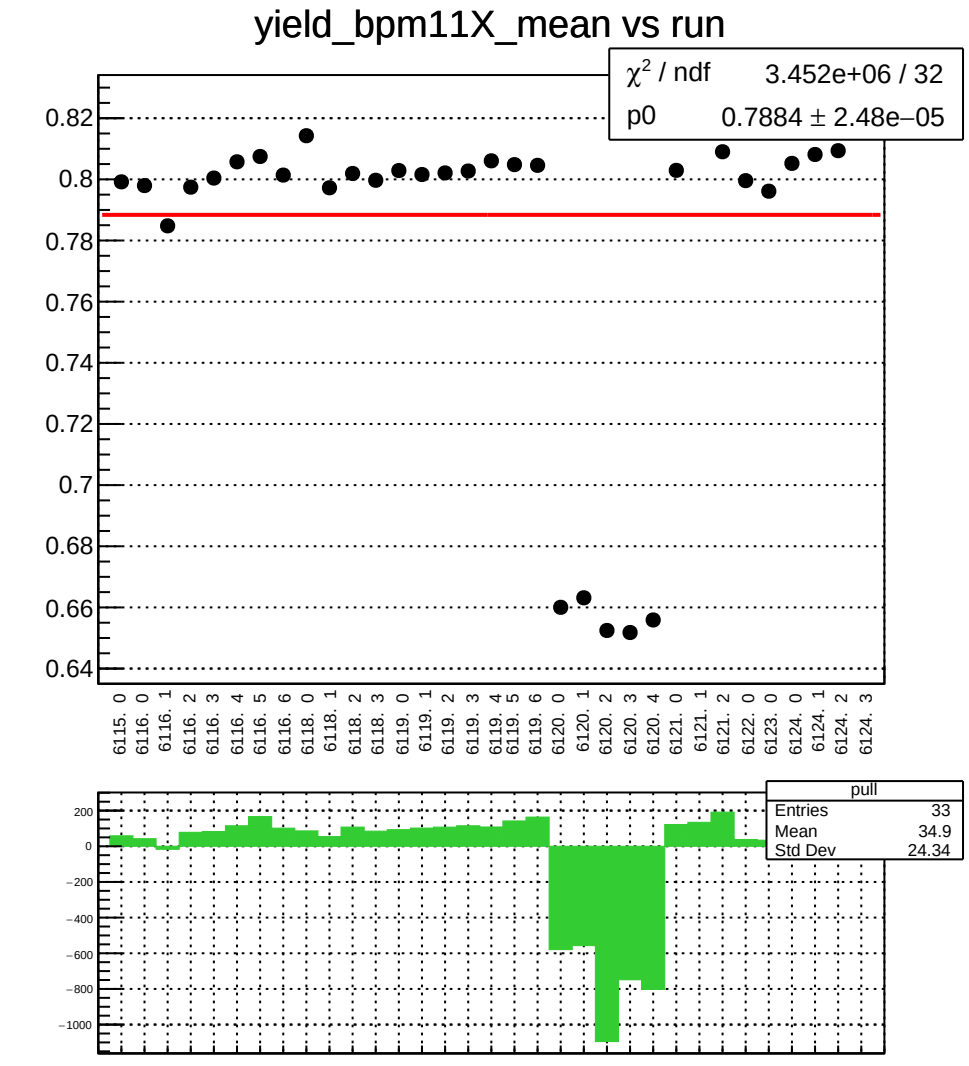

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

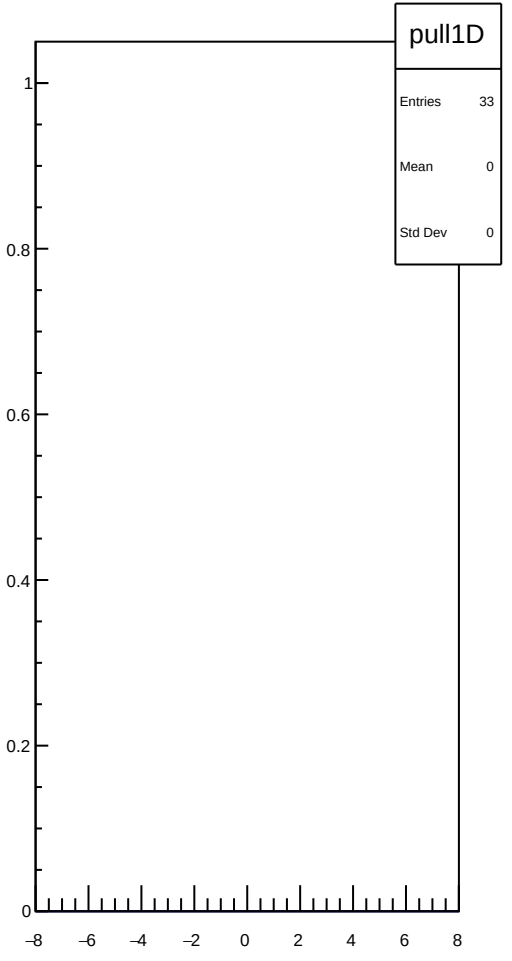

yield_bpm1X_rms vs run
χ² / ndf 1.084e+05 / 32
p0 0.1682 ± 0.0002279
0.3
0.25
0.2
0.15
0.1
0.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

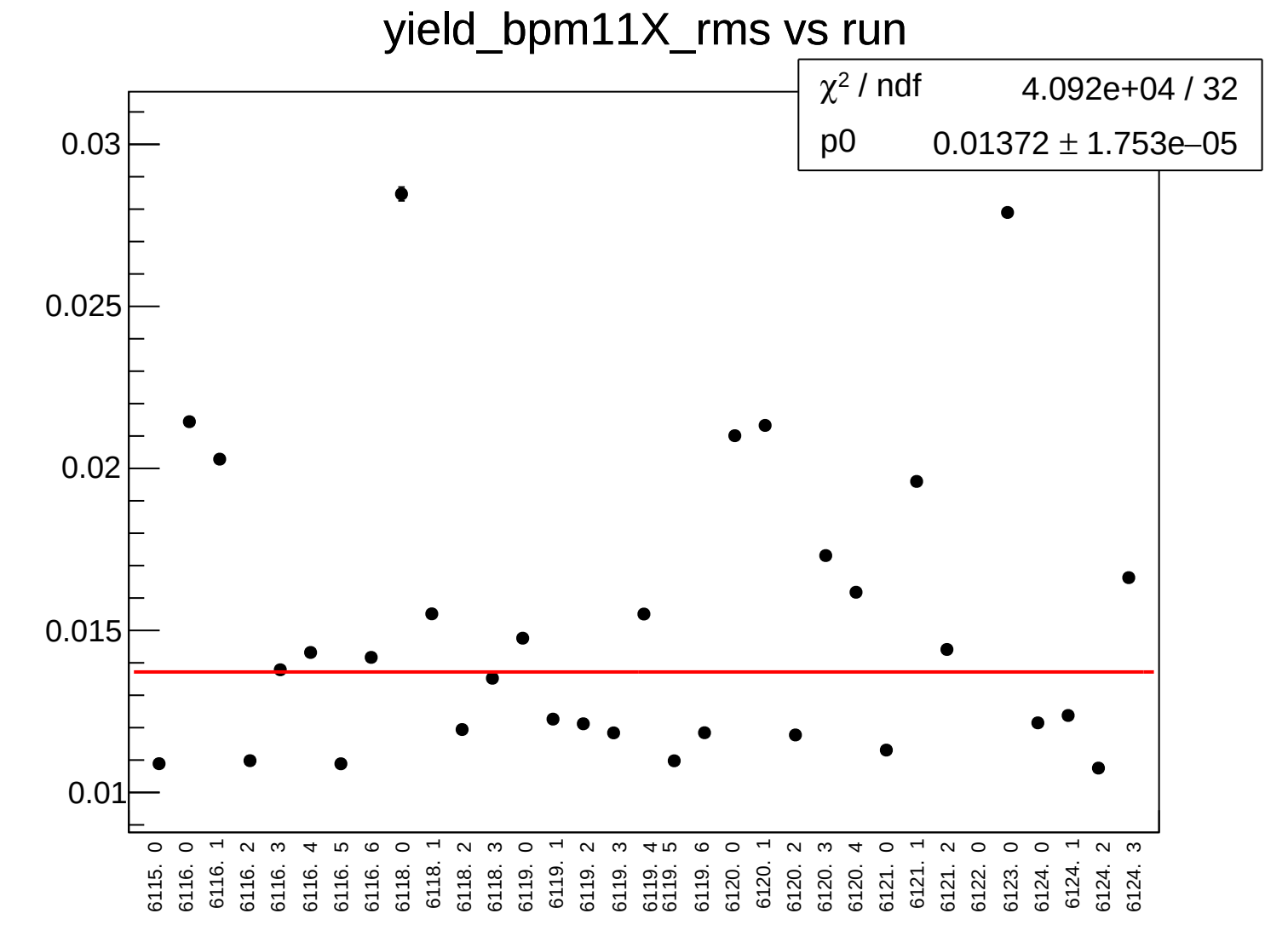

yield_bpm1Y_mean vs run
χ² / ndf 5.594e+05 / 32
p0 −1.782 ± 0.0002648
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
−1.7
−1.8
−1.9
−2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 33.26
Std Dev 16.27
200
100
0
−100
−200
−300

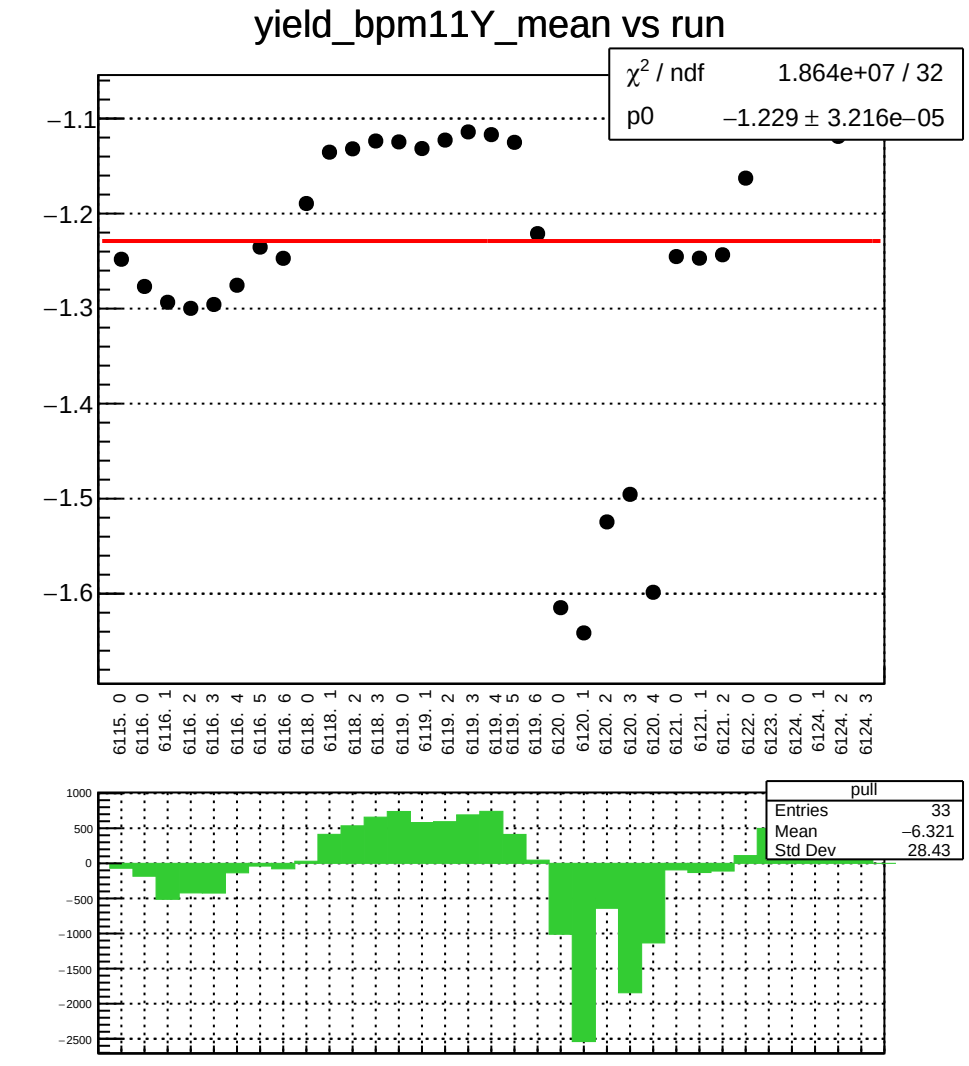

pull1D
Entries 33
Mean −1.489
Std Dev 3.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

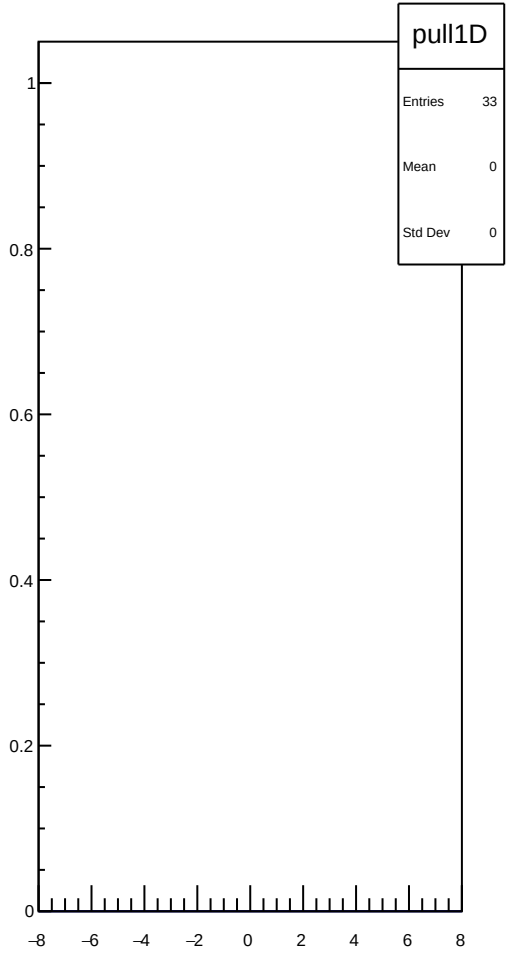

yield_bpm1Y_rms vs run
χ² / ndf 1.137e+05 / 32
p0 0.1375 ± 0.0001873
0.25
0.2
0.15
0.1
0.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

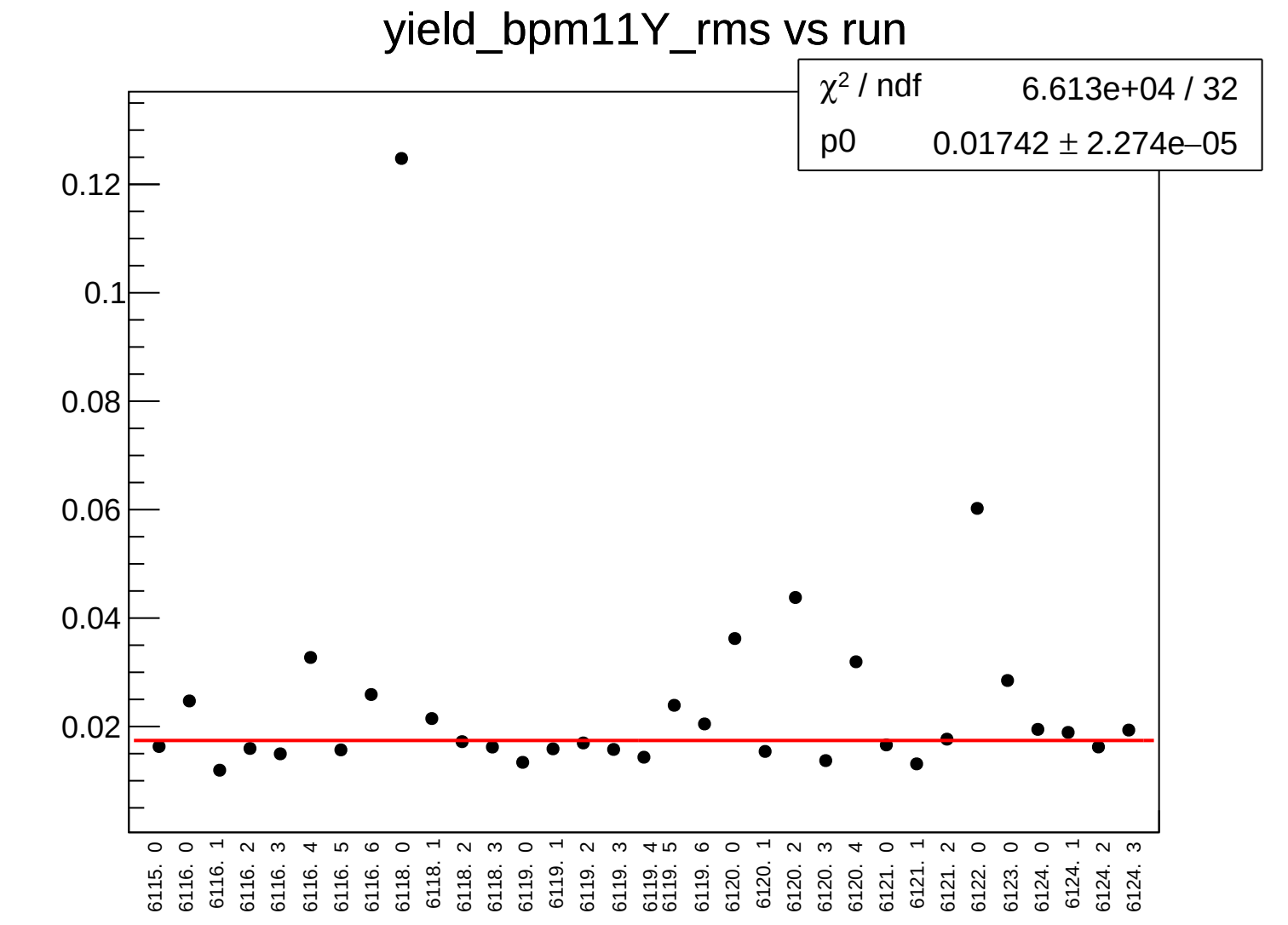

yield_bpm11X_mean vs run
χ² / ndf 3.452e+06 / 32
p0 0.7884 ± 2.48e−05
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 34.9
Std Dev 24.34
200
0
−200
−400
−600
−800
−1000

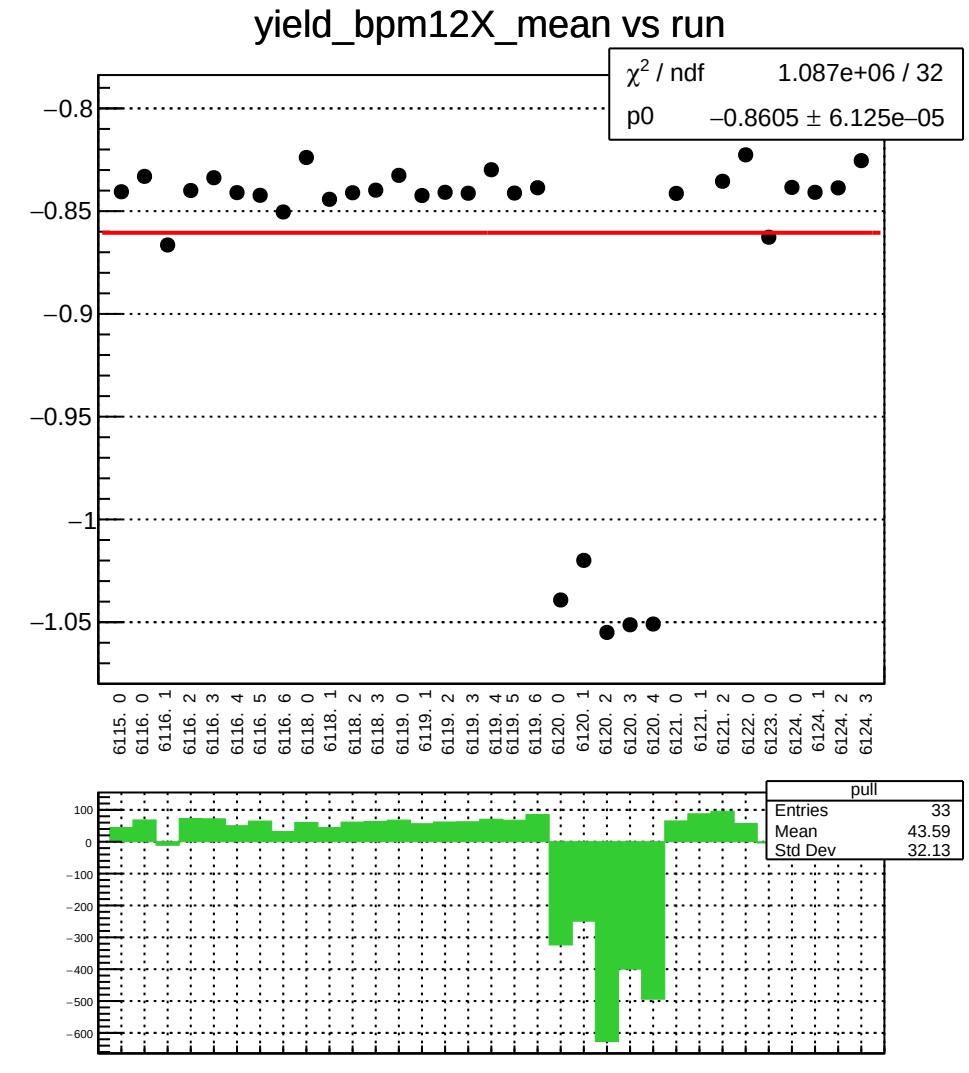

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

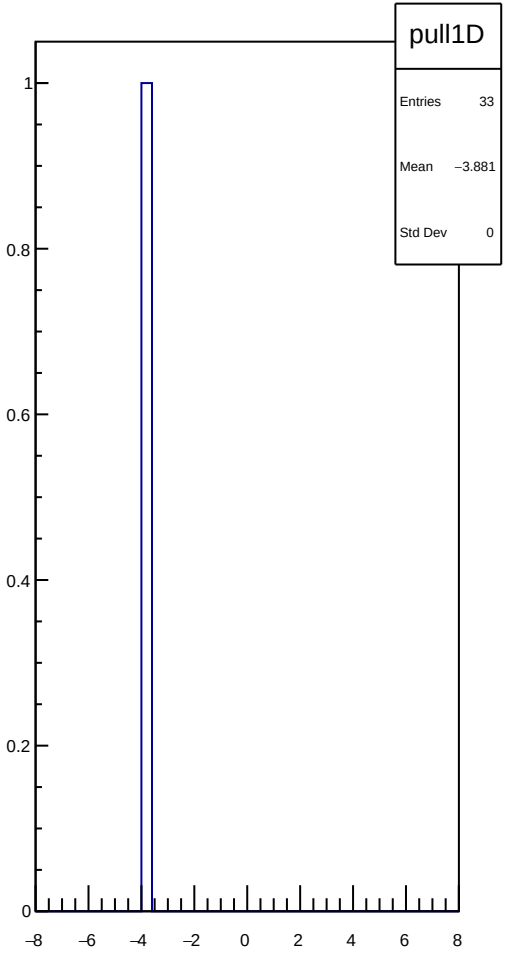

yield_bpm11X_rms vs run
χ² / ndf 4.092e+04 / 32
p0 0.01372 ± 1.753e–05
0.03
0.025
0.02
0.015
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

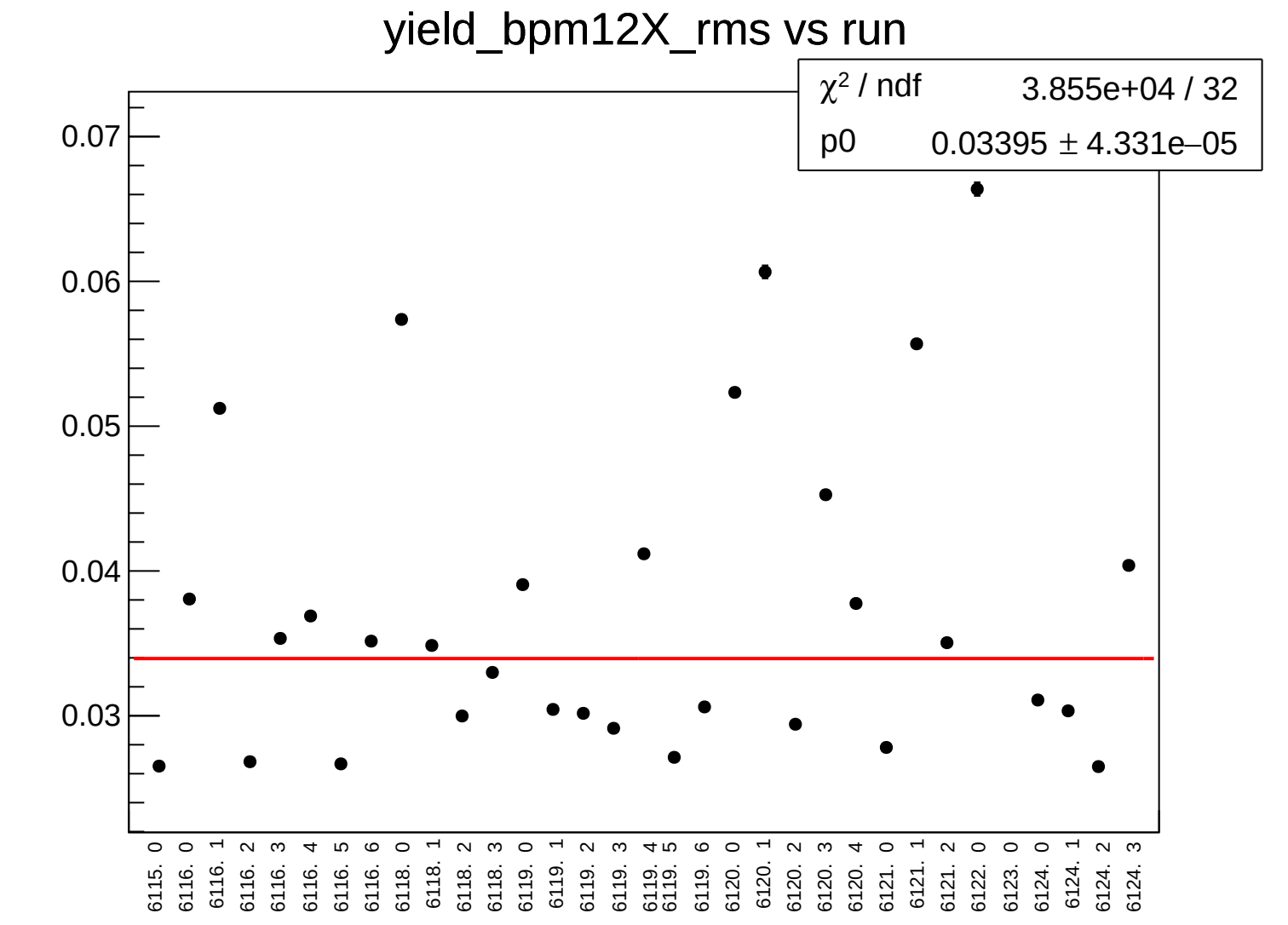

yield_bpm11Y_mean vs run
χ² / ndf 1.864e+07 / 32
p0 −1.229 ± 3.216e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −6.321
Std Dev 28.43
1000
500
0
−500
−1000
−1500
−2000
−2500

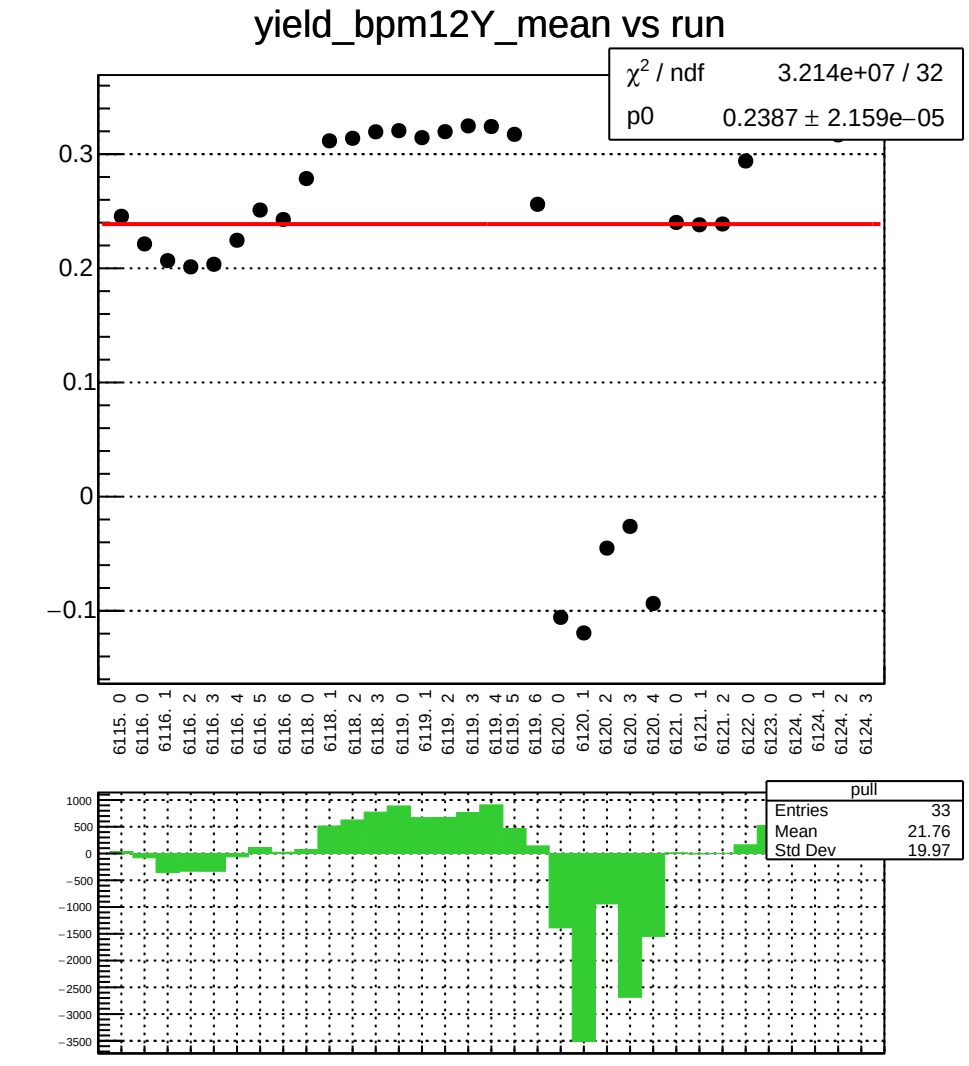

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

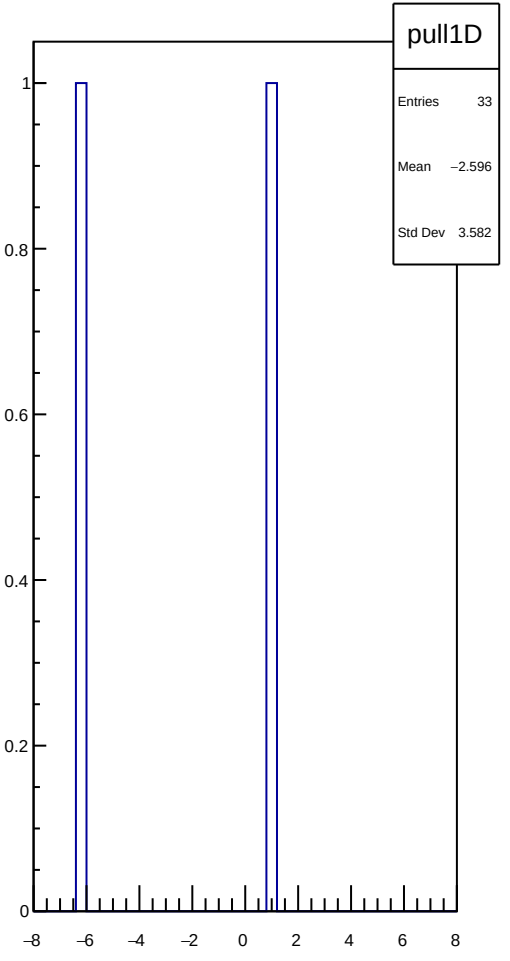

yield_bpm11Y_rms vs run
χ² / ndf 6.613e+04 / 32
p0 0.01742 ± 2.274e−05
0.12
0.1
0.08
0.06
0.04
0.02
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

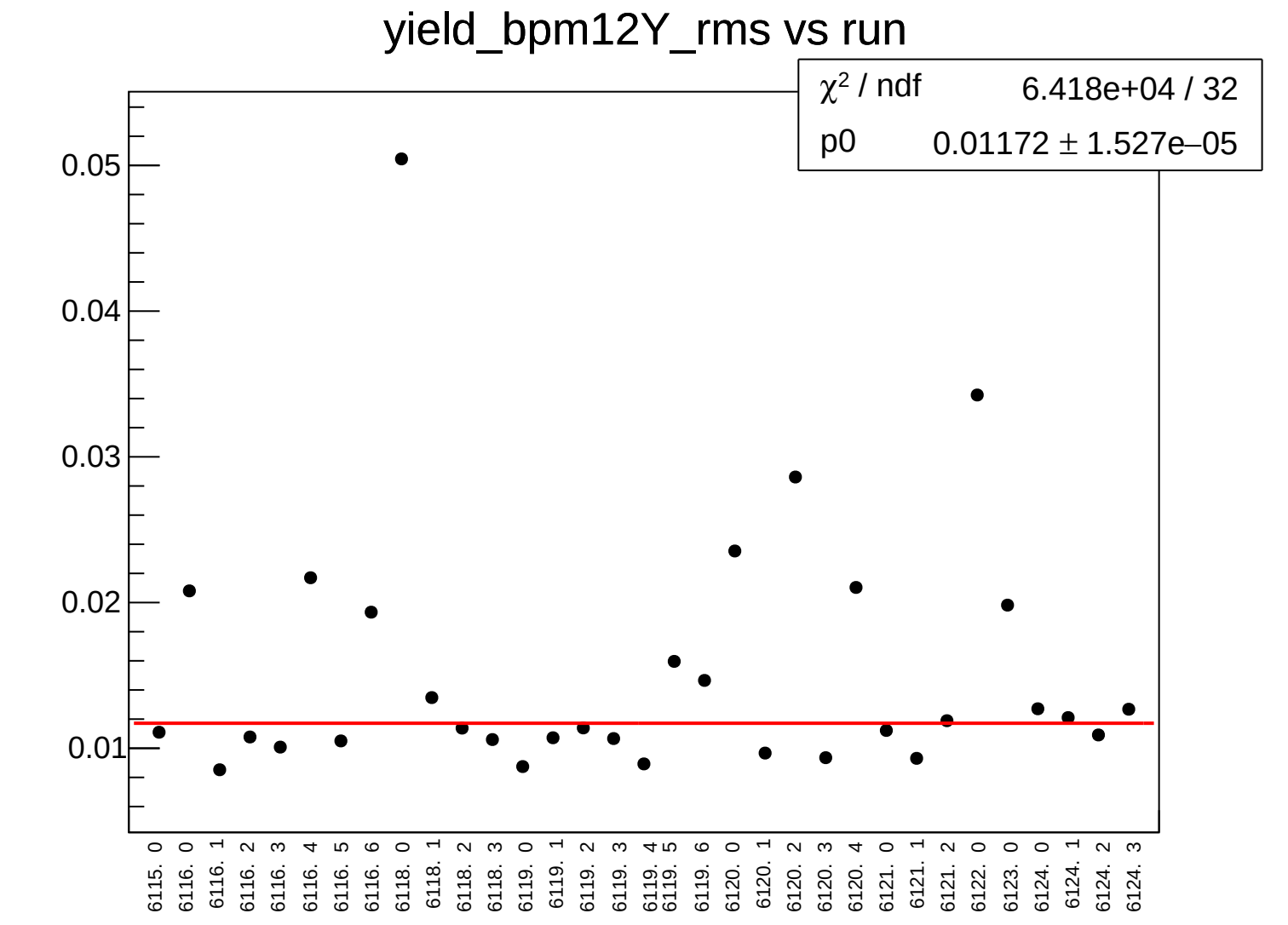

yield_bpm12X_mean vs run
χ² / ndf 1.087e+06 / 32
p0 −0.8605 ± 6.125e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 43.59
Std Dev 32.13
100
0
−100
−200
−300
−400
−500
−600

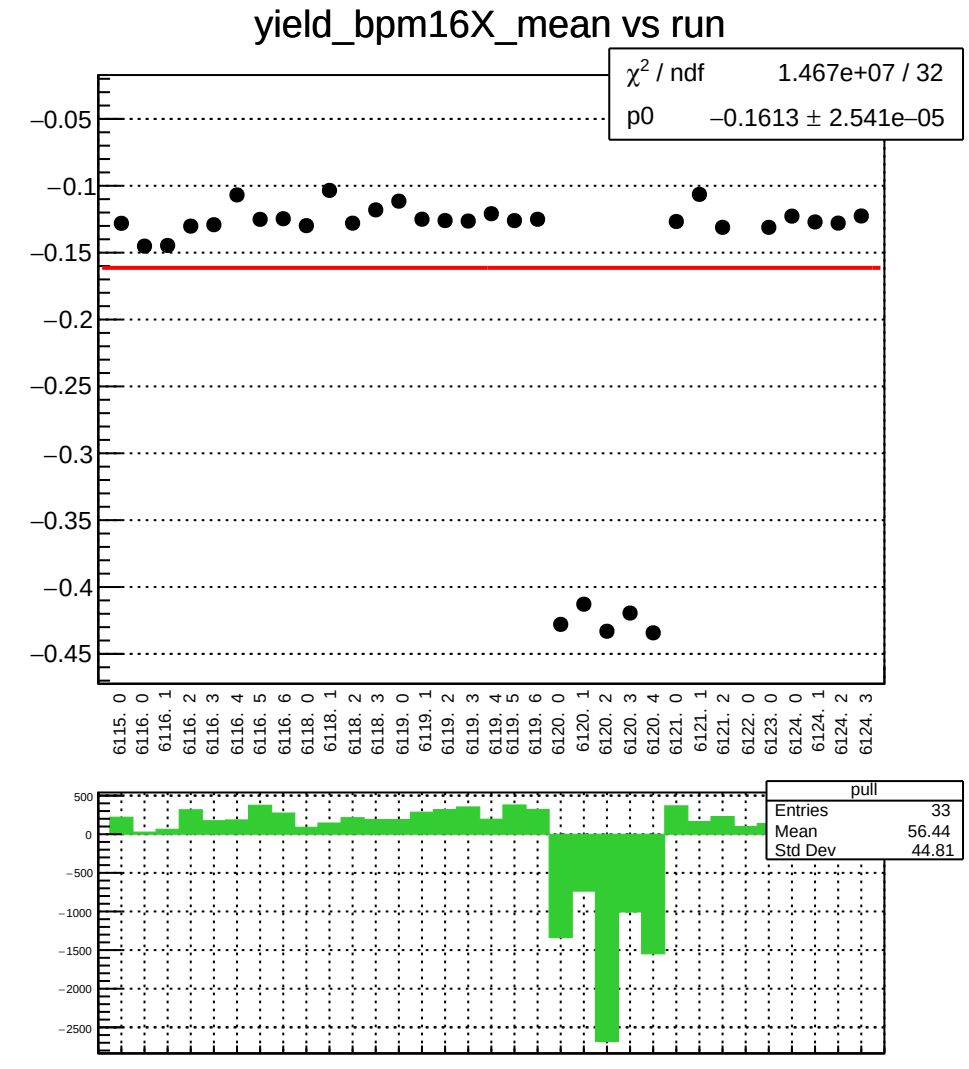

pull1D
Entries 33
Mean −3.881
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

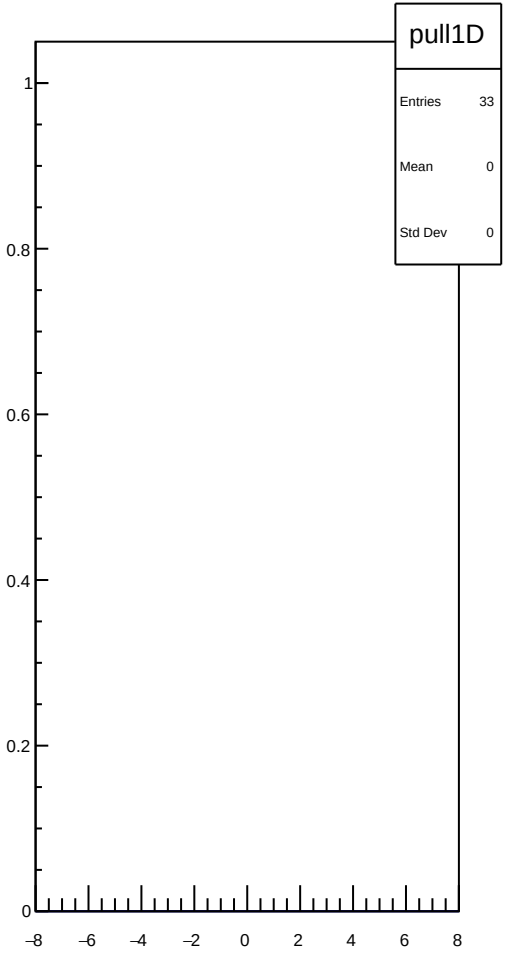

yield_bpm12X_rms vs run
χ² / ndf 3.855e+04 / 32
p0 0.03395 ± 4.331e–05
0.07
0.06
0.05
0.04
0.03
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

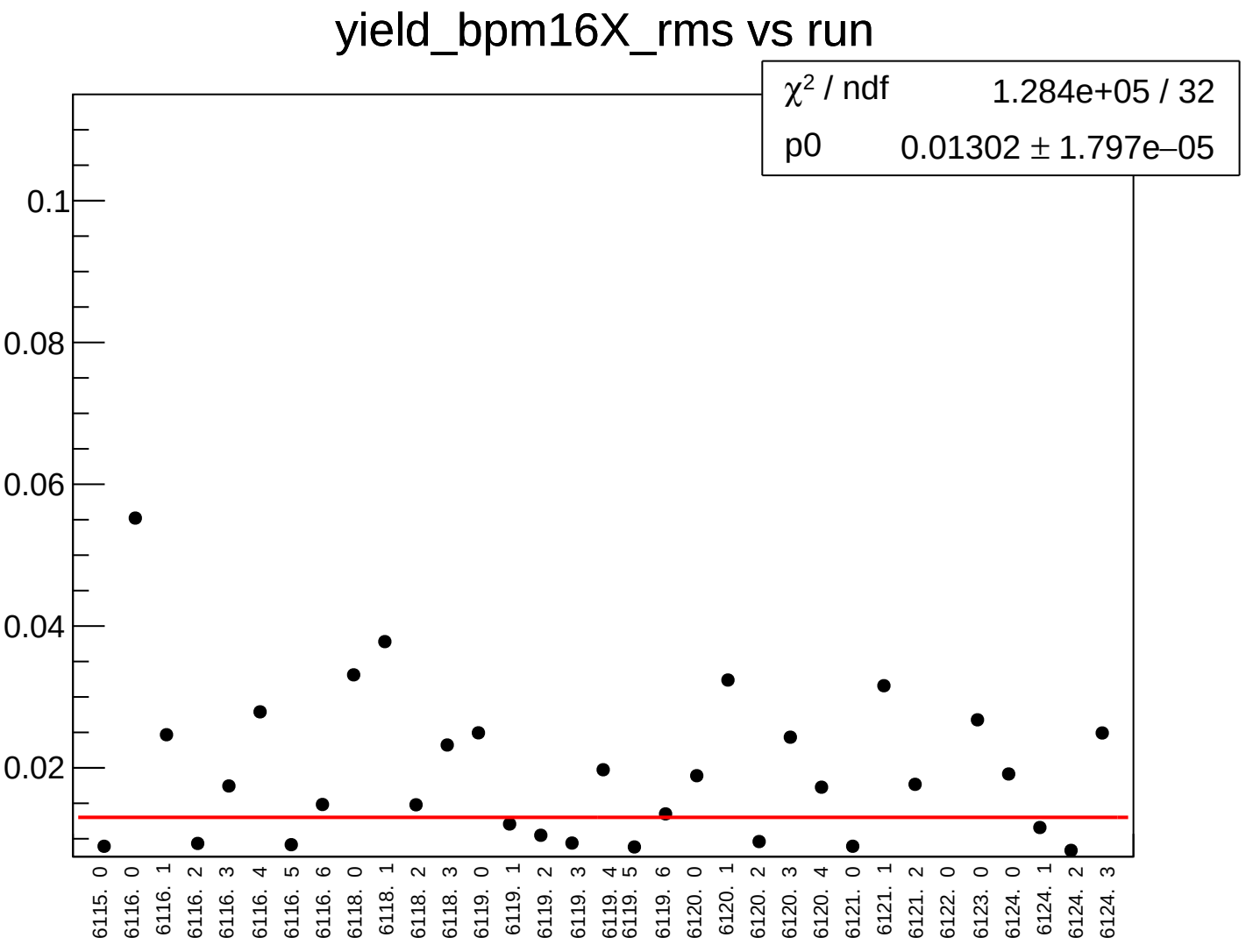

yield_bpm12Y_mean vs run
χ² / ndf 3.214e+07 / 32
p0 0.2387 ± 2.159e−05
0.3
0.2
0.1
0
−0.1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 21.76
Std Dev 19.97
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

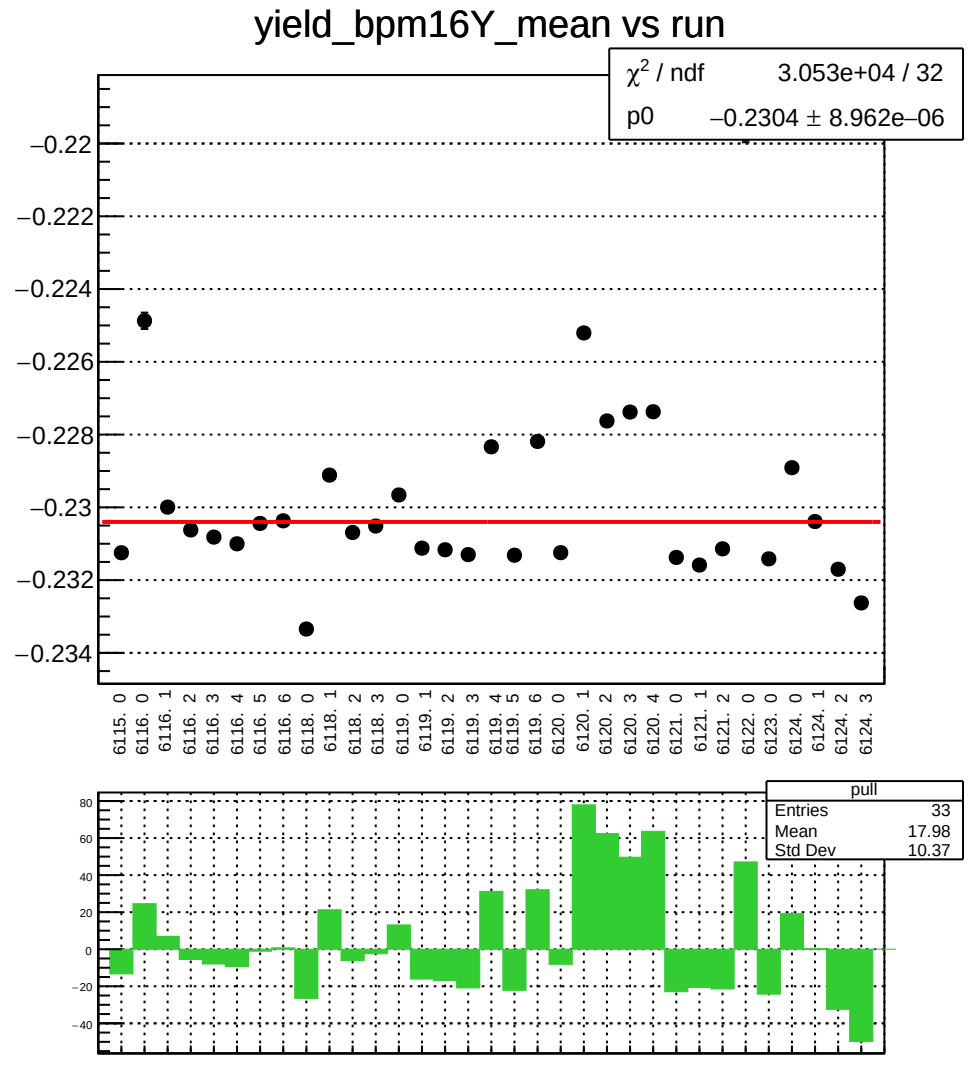

pull1D
Entries 33
Mean −2.596
Std Dev 3.582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

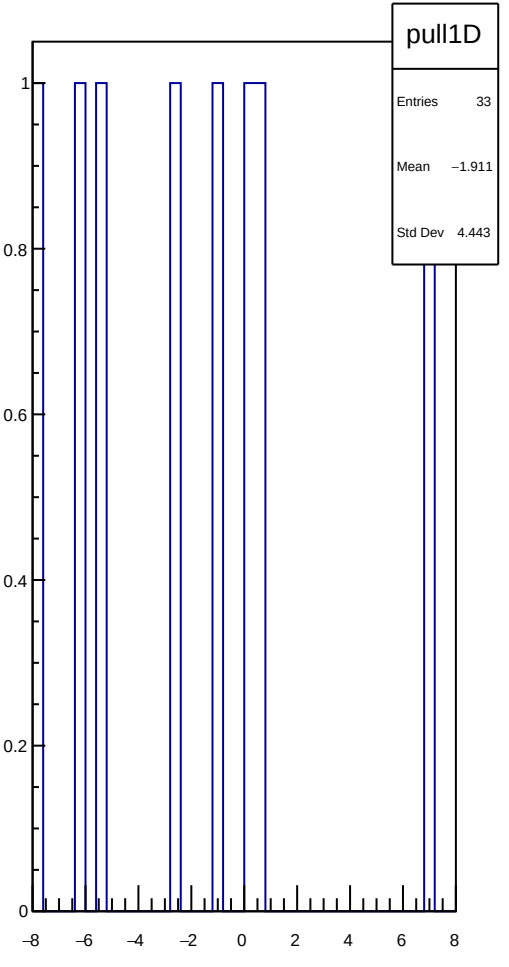

yield_bpm12Y_rms vs run
χ² / ndf 6.418e+04 / 32
p0 0.01172 ± 1.527e–05
0.05
0.04
0.03
0.02
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

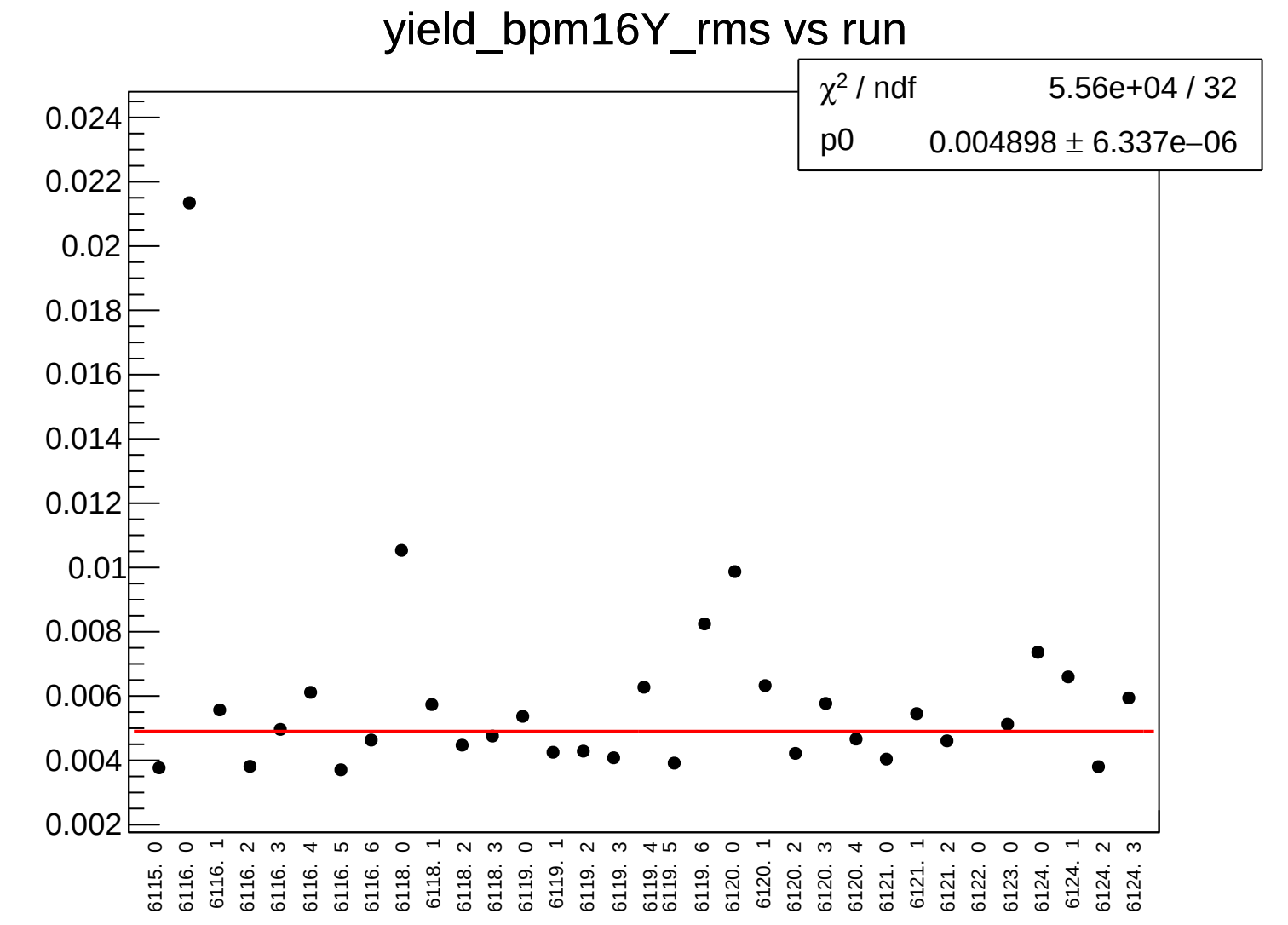

yield_bpm16X_mean vs run
χ² / ndf 1.467e+07 / 32
p0 −0.1613 ± 2.541e−05
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 56.44
Std Dev 44.81
500
0
−500
−1000
−1500
−2000
−2500

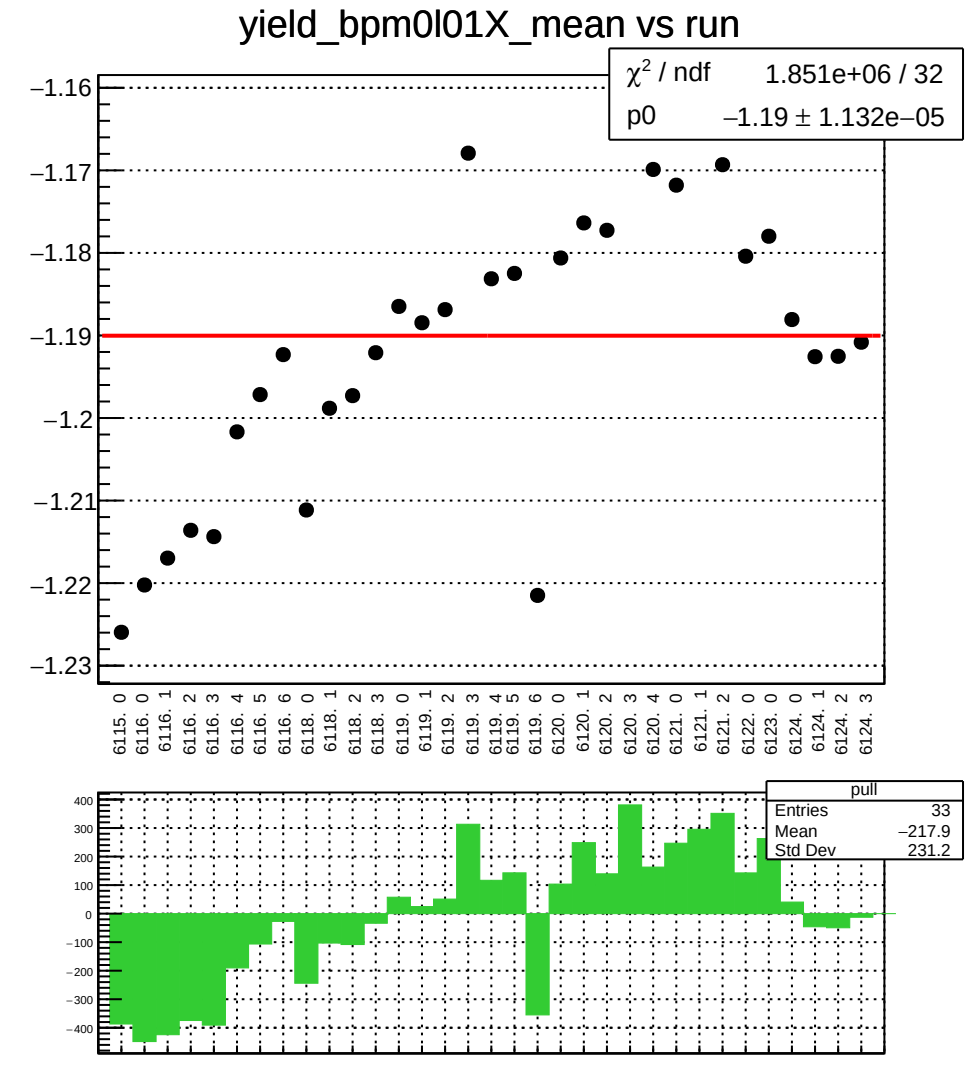

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

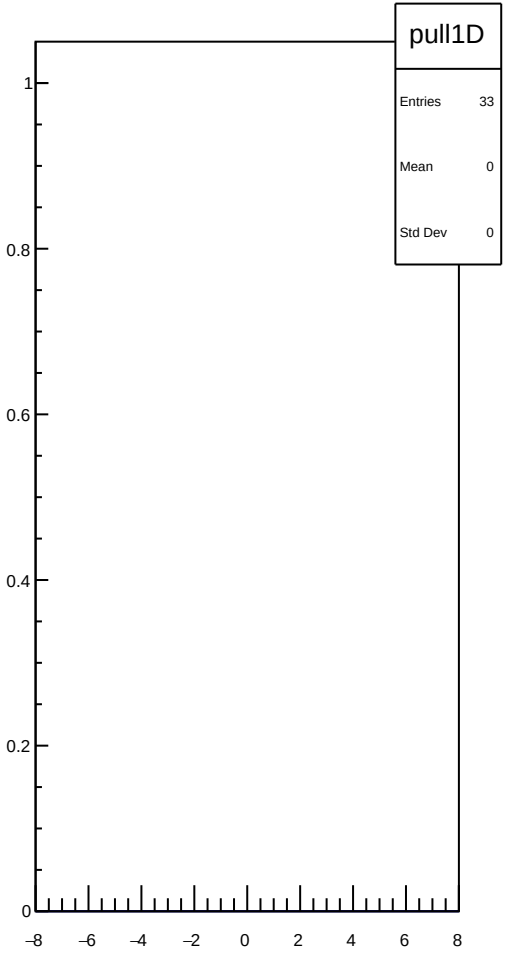

yield_bpm16X_rms vs run
χ² / ndf 1.284e+05 / 32
p0 0.01302 ± 1.797e–05
0.1
0.08
0.06
0.04
0.02
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

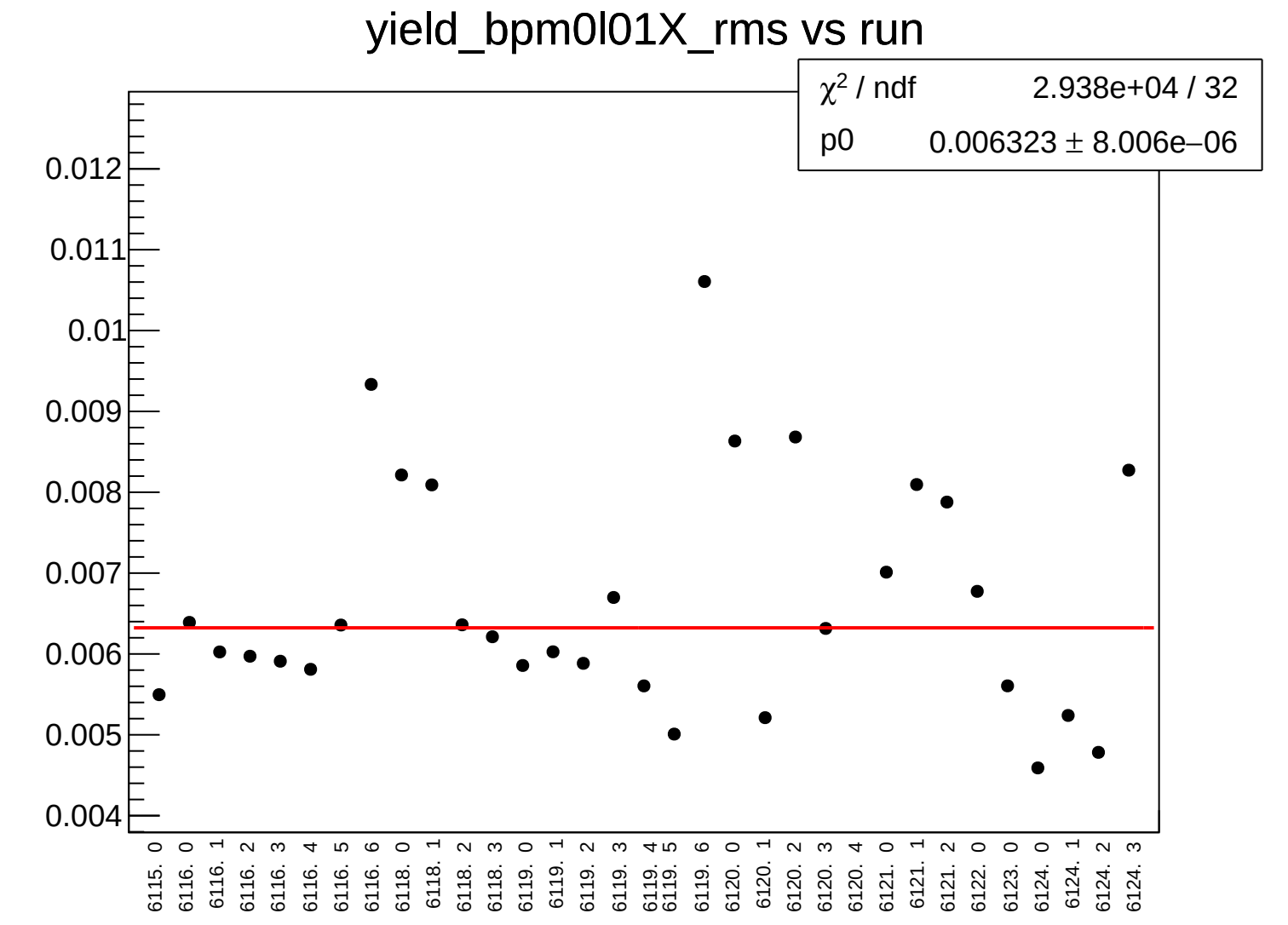

yield_bpm16Y_mean vs run
χ² / ndf 3.053e+04 / 32
p0 −0.2304 ± 8.962e−06
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 17.98
Std Dev 10.37
80
60
40
20
0
−20
−40


pull1D
Entries 33
Mean −1.911
Std Dev 4.443
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 5.56e+04 / 32
p0 0.004898 ± 6.337e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3


yield_bpm0l01X_mean vs run
χ² / ndf 1.851e+06 / 32
p0 −1.19 ± 1.132e−05
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −217.9
Std Dev 231.2
400
300
200
100
0
−100
−200
−300
−400


pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01X_rms vs run
χ² / ndf 2.938e+04 / 32
p0 0.006323 ± 8.006e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
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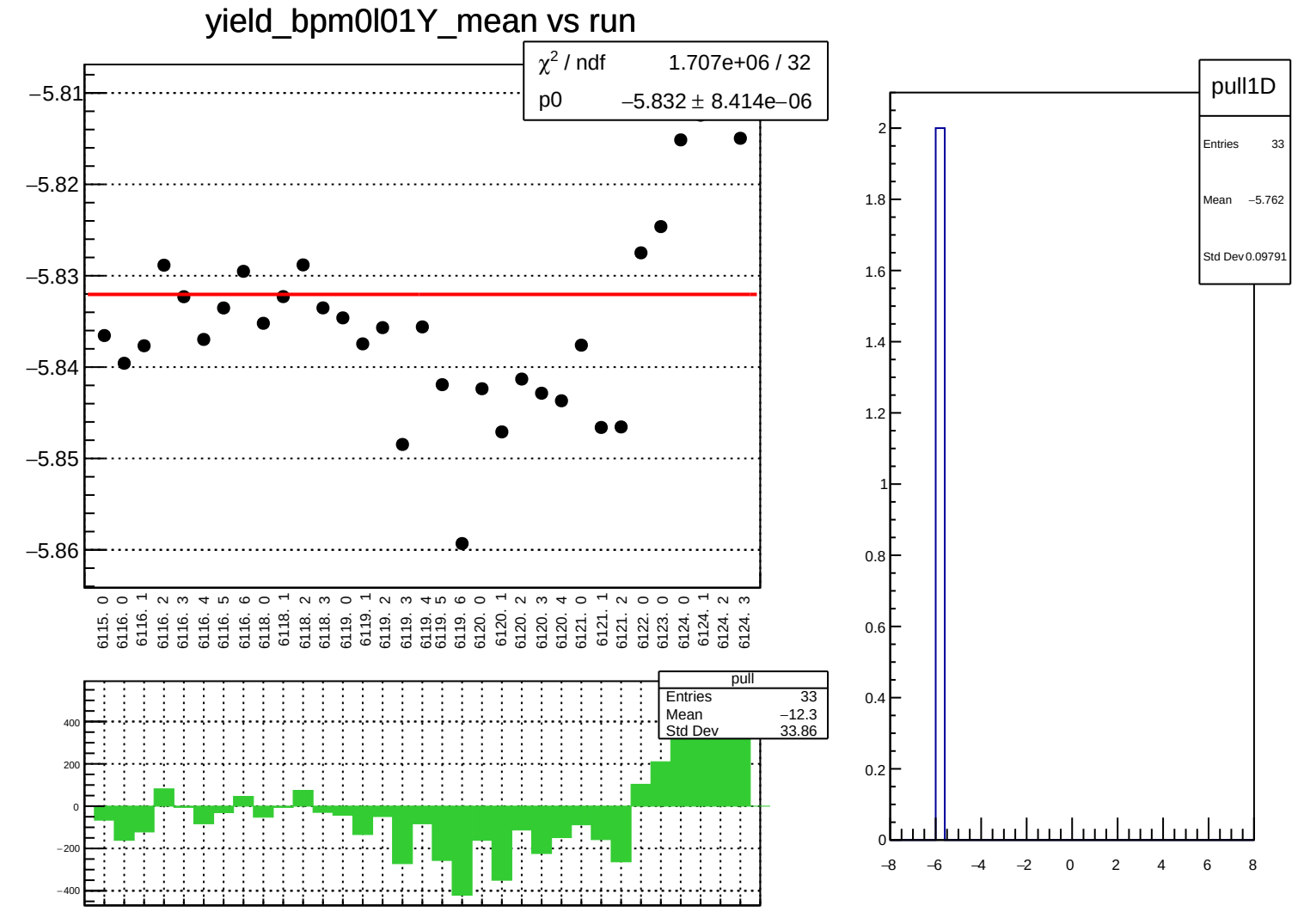
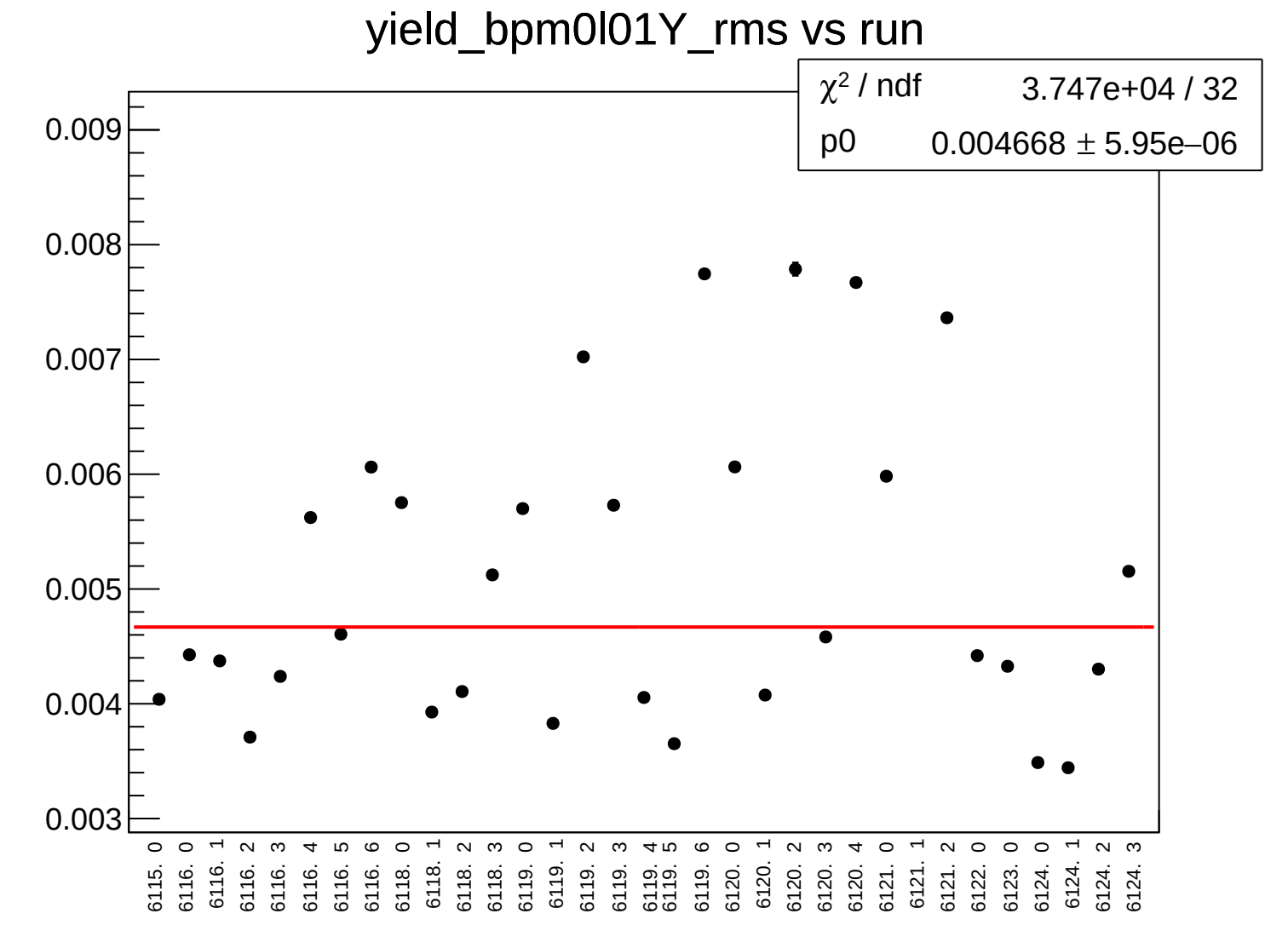
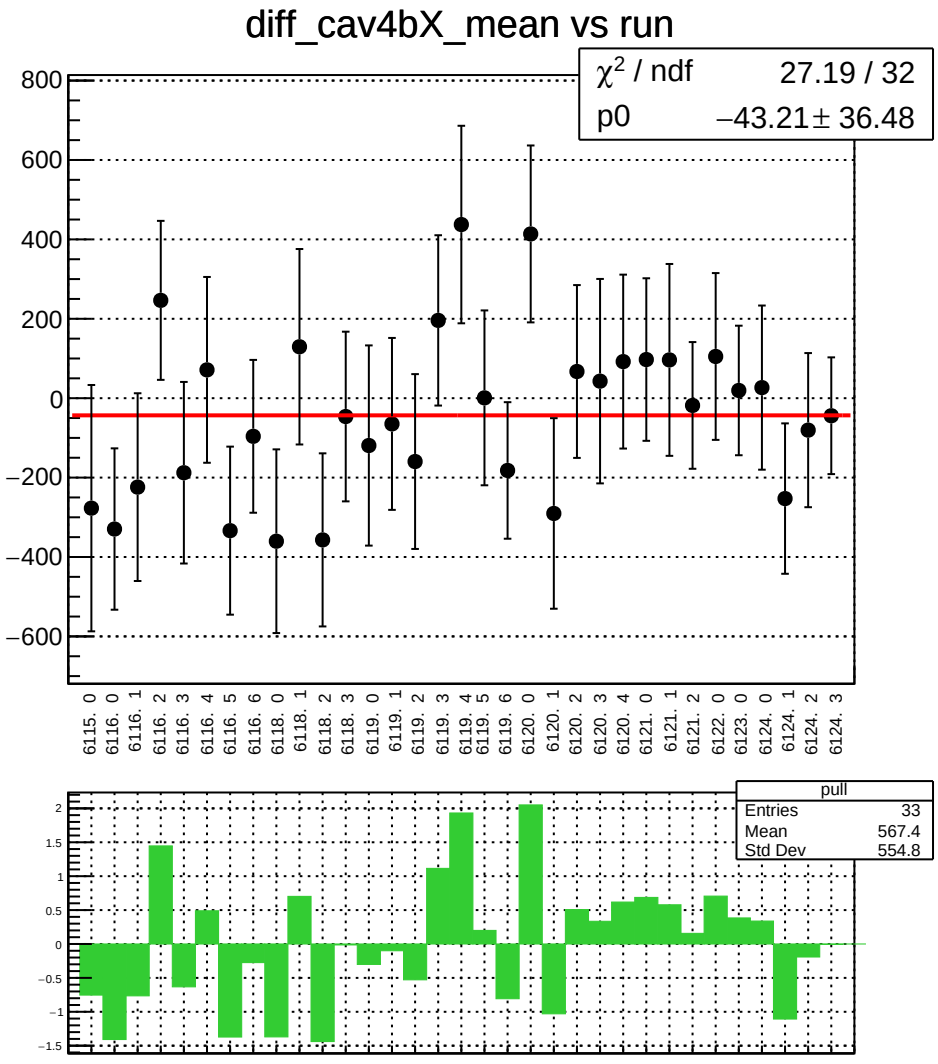
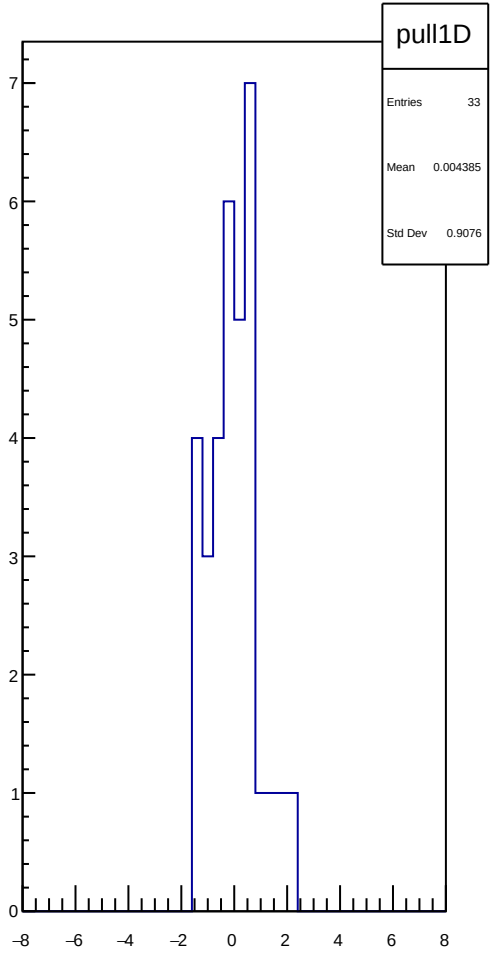
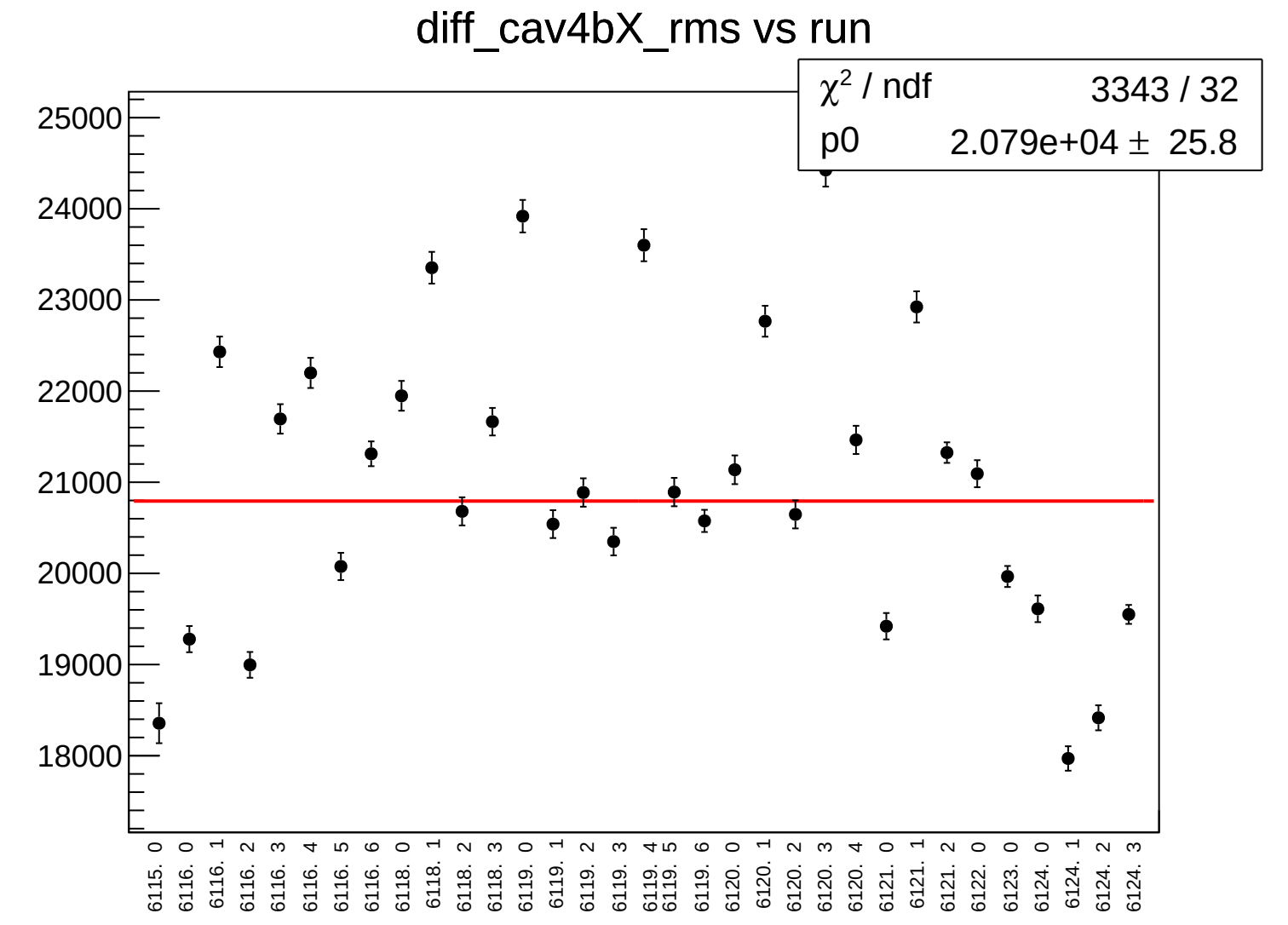
6124. 2
6124. 3

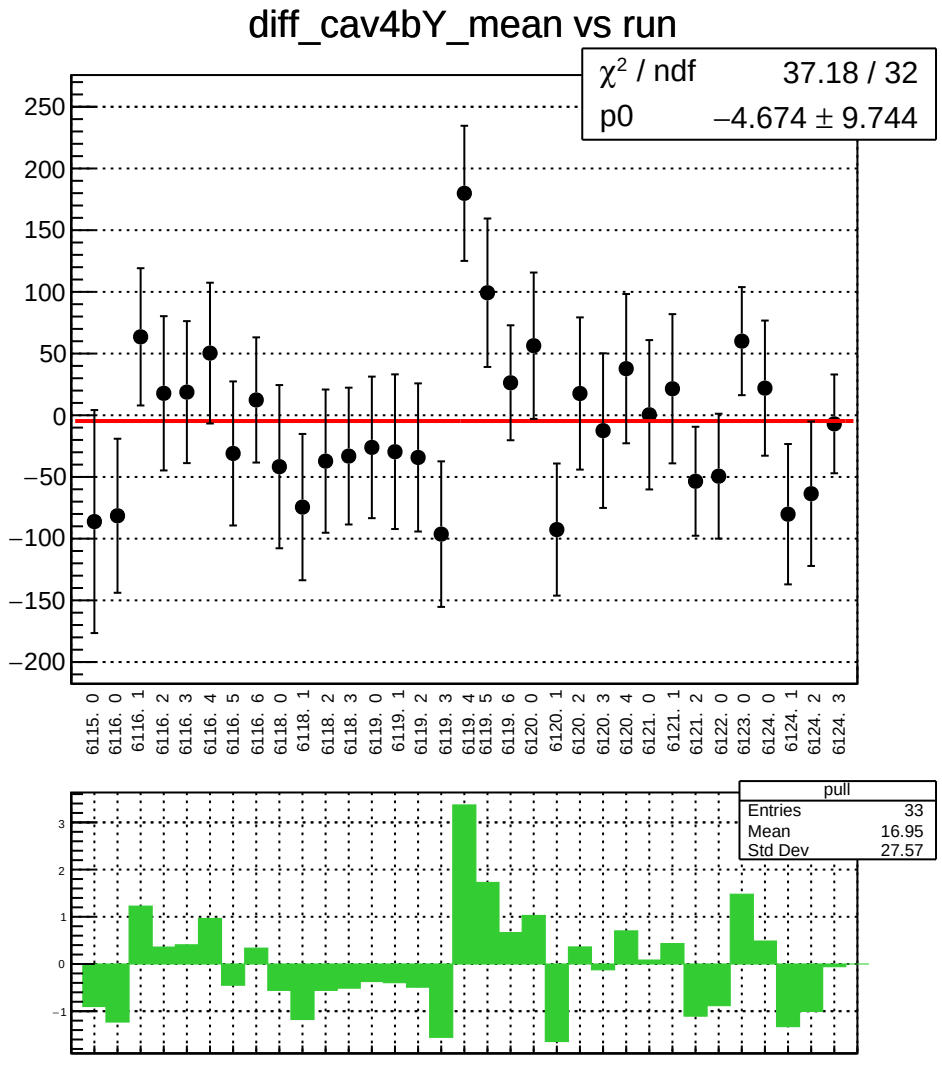

yield_bpm0l01Y_mean vs run
χ² / ndf 1.707e+06 / 32
p0 −5.832 ± 8.414e−06
−5.81
−5.82
−5.83
−5.84
−5.85
−5.86
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −12.3
Std Dev 33.86
400
200
0
−200
−400
pull1D
Entries 33
Mean −5.762
Std Dev 0.09791
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

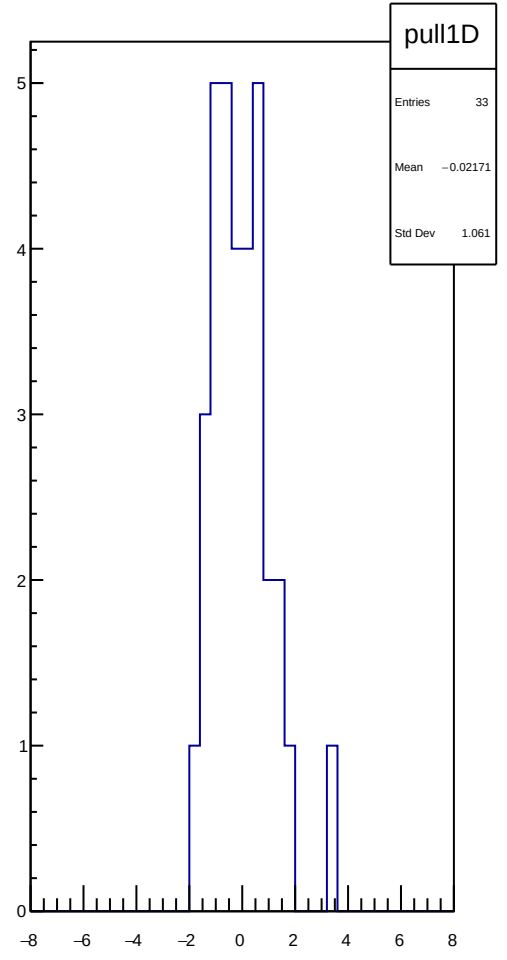

yield_bpm0l01Y_rms vs run
χ² / ndf 3.747e+04 / 32
p0 0.004668 ± 5.95e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

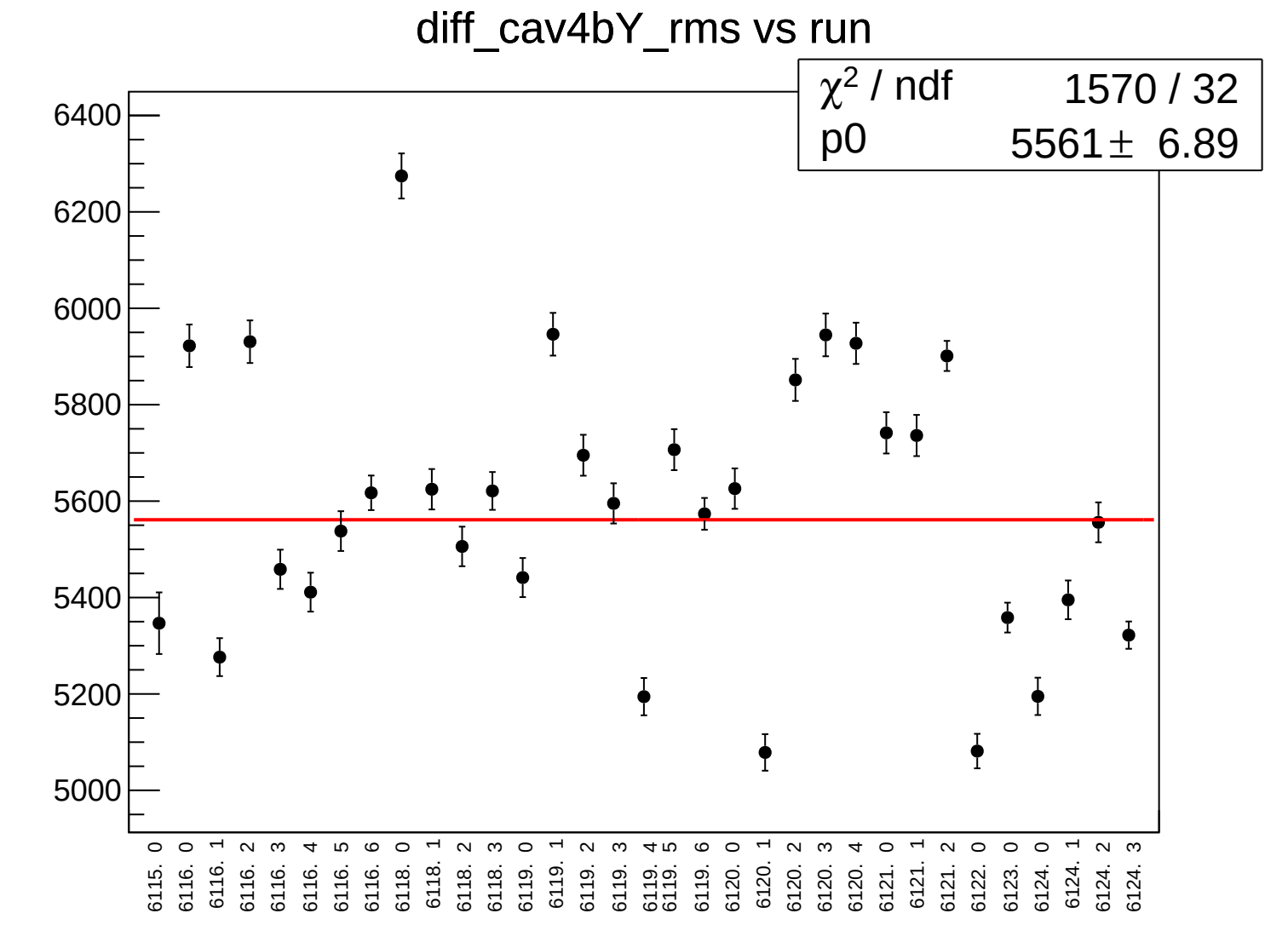

diff_cav4bX_mean vs run
χ² / ndf 27.19 / 32
p0 −43.21 ± 36.48
800
600
400
200
0
−200
−400
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 567.4
Std Dev 554.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

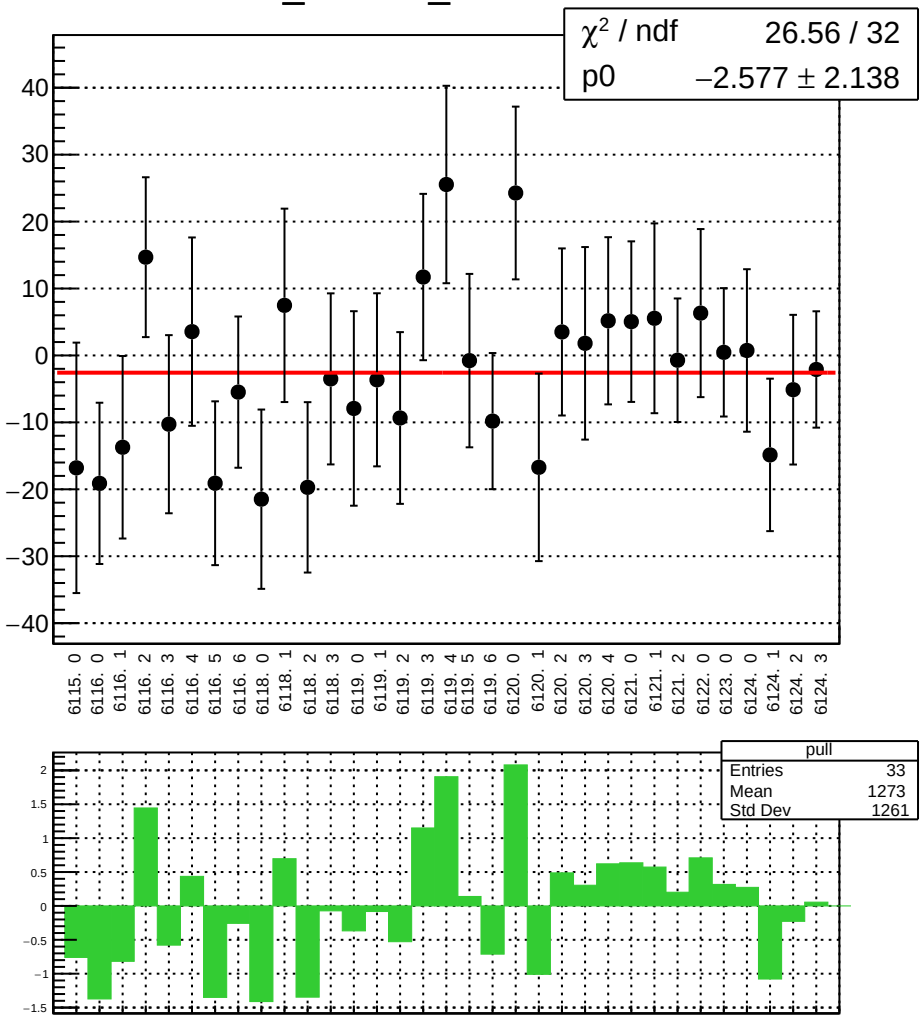

pull1D
Entries 33
Mean 0.004385
Std Dev 0.9076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

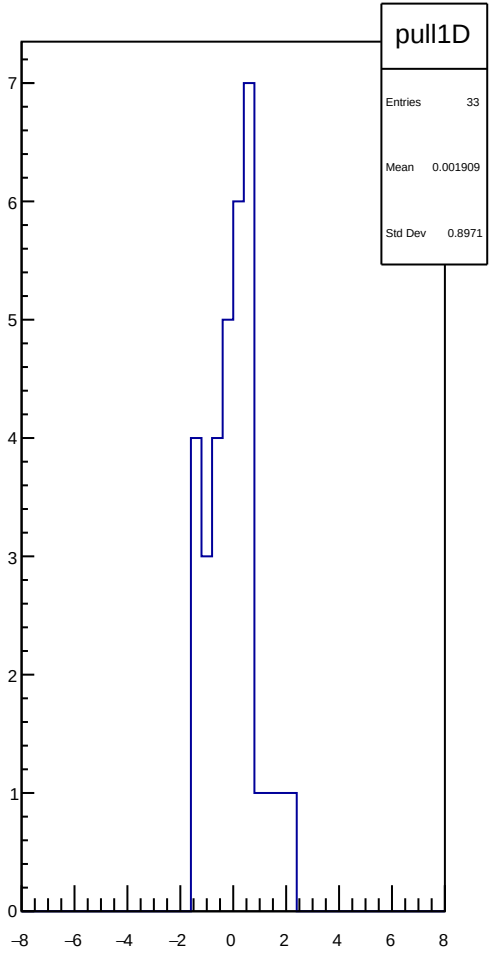

diff_cav4bX_rms vs run
χ² / ndf 3343 / 32
p0 2.079e+04 ± 25.8
25000
24000
23000
22000
21000
20000
19000
18000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

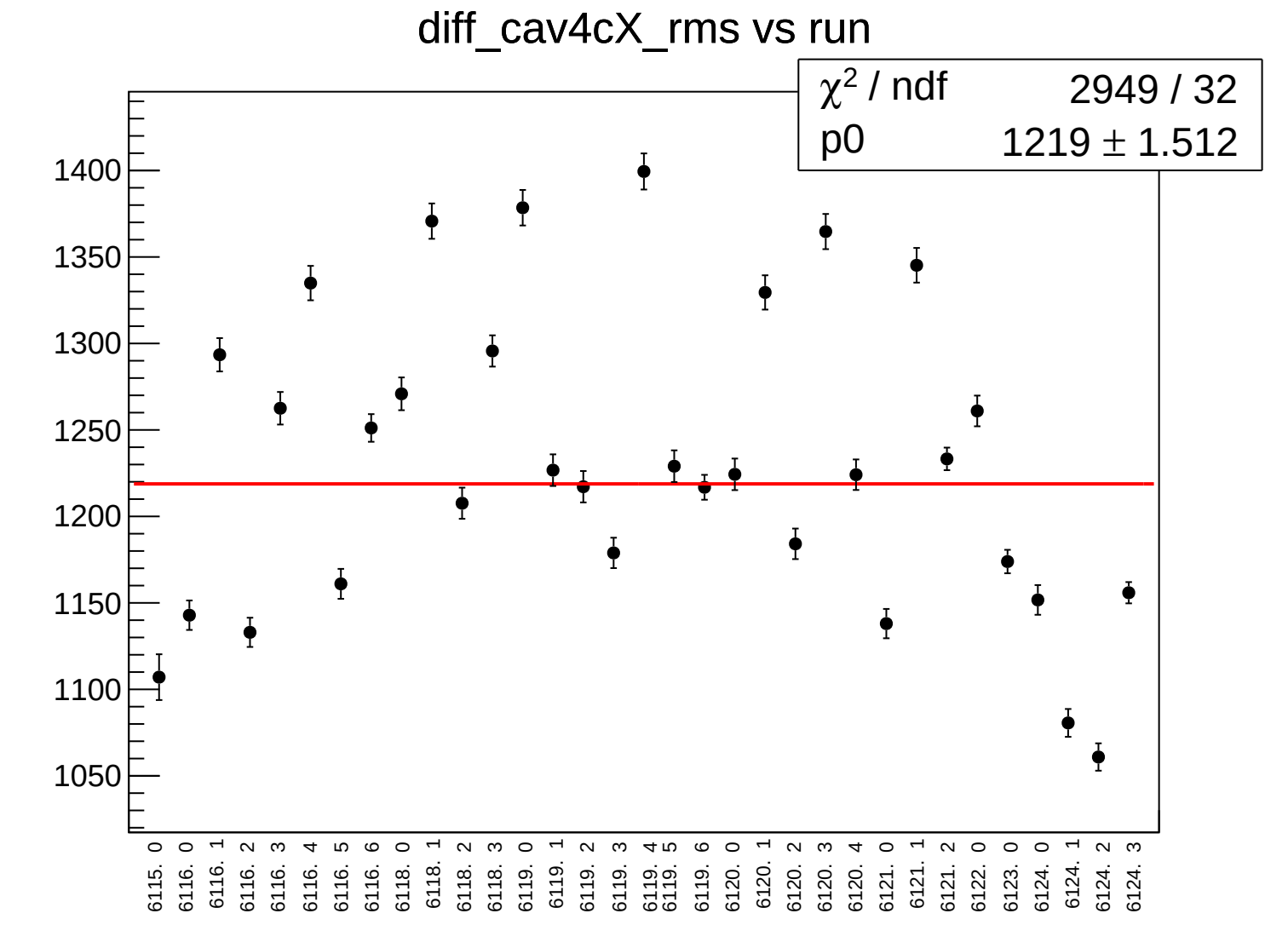

diff_cav4bY_mean vs run
χ² / ndf 37.18 / 32
p0 −4.674 ± 9.744
250
200
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.95
Std Dev 27.57
3
2
1
0
−1

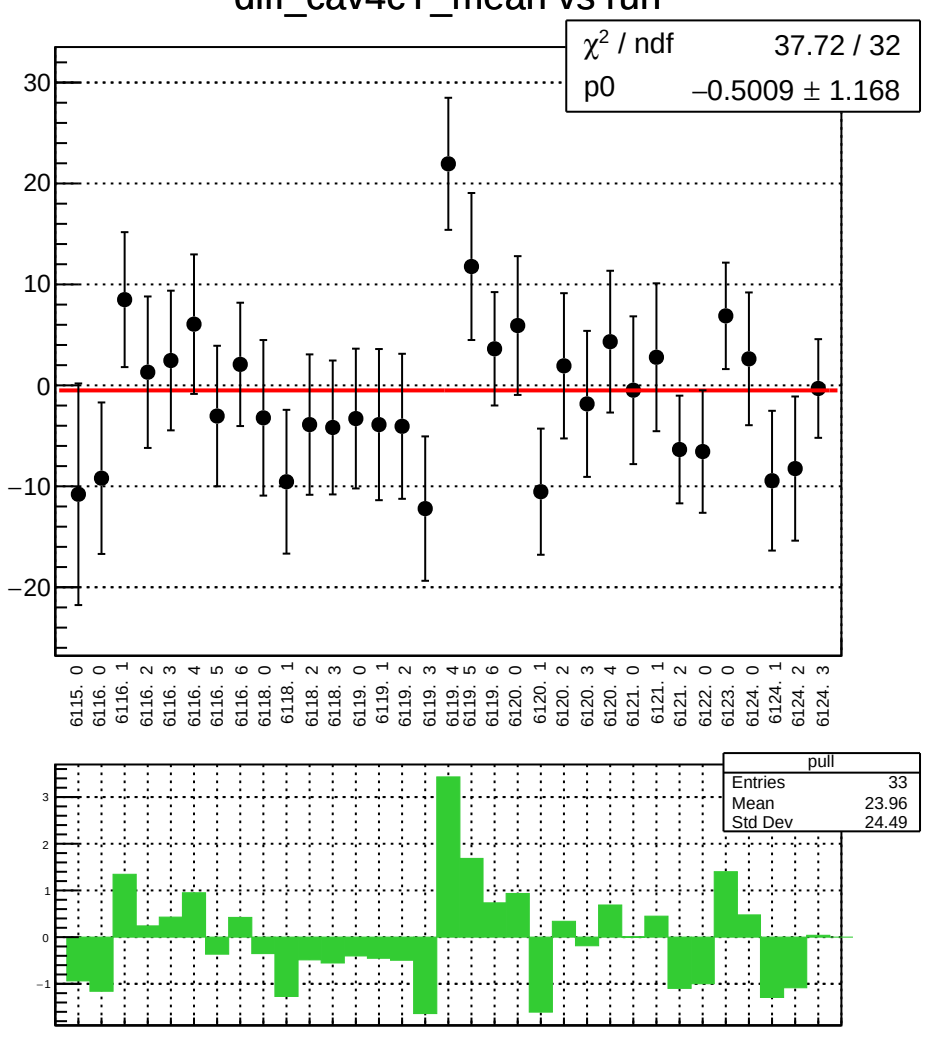

pull1D
Entries 33
Mean −0.02171
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

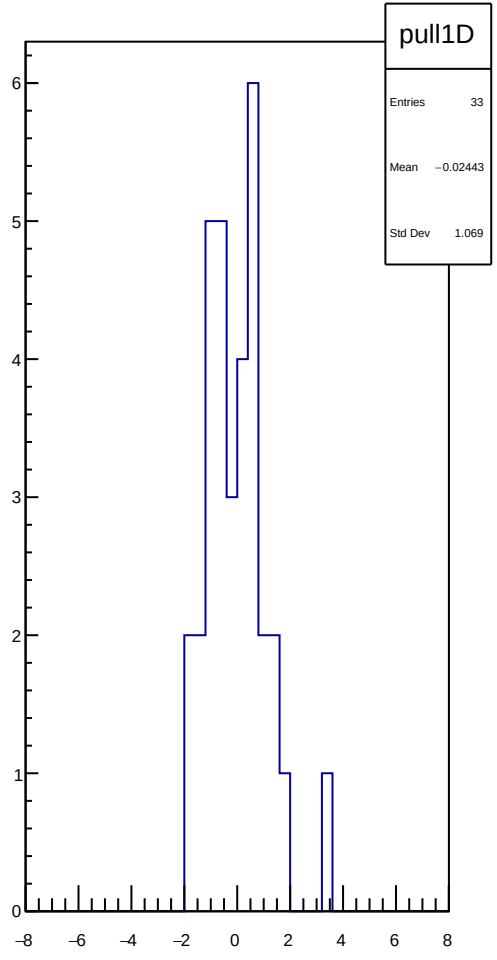

diff_cav4bY_rms vs run
χ² / ndf 1570 / 32
p0 5561 ± 6.89
6400
6200
6000
5800
5600
5400
5200
5000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

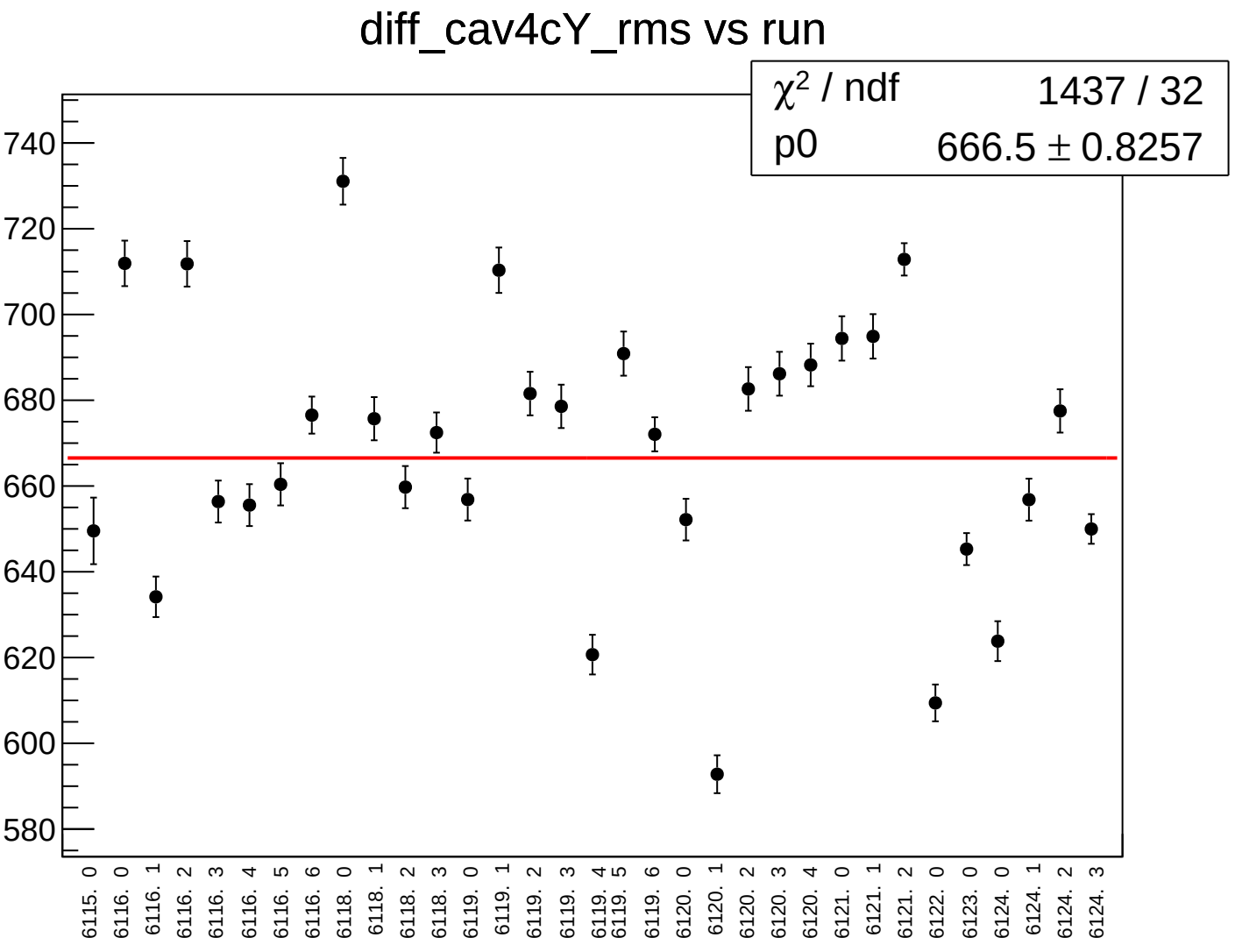

diff_cav4cX_mean vs run
χ² / ndf 26.56 / 32
p0 −2.577 ± 2.138
40
30
20
10
0
−10
−20
−30
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1273
Std Dev 1261
2
1.5
1
0.5
0
−0.5
−1
−1.5

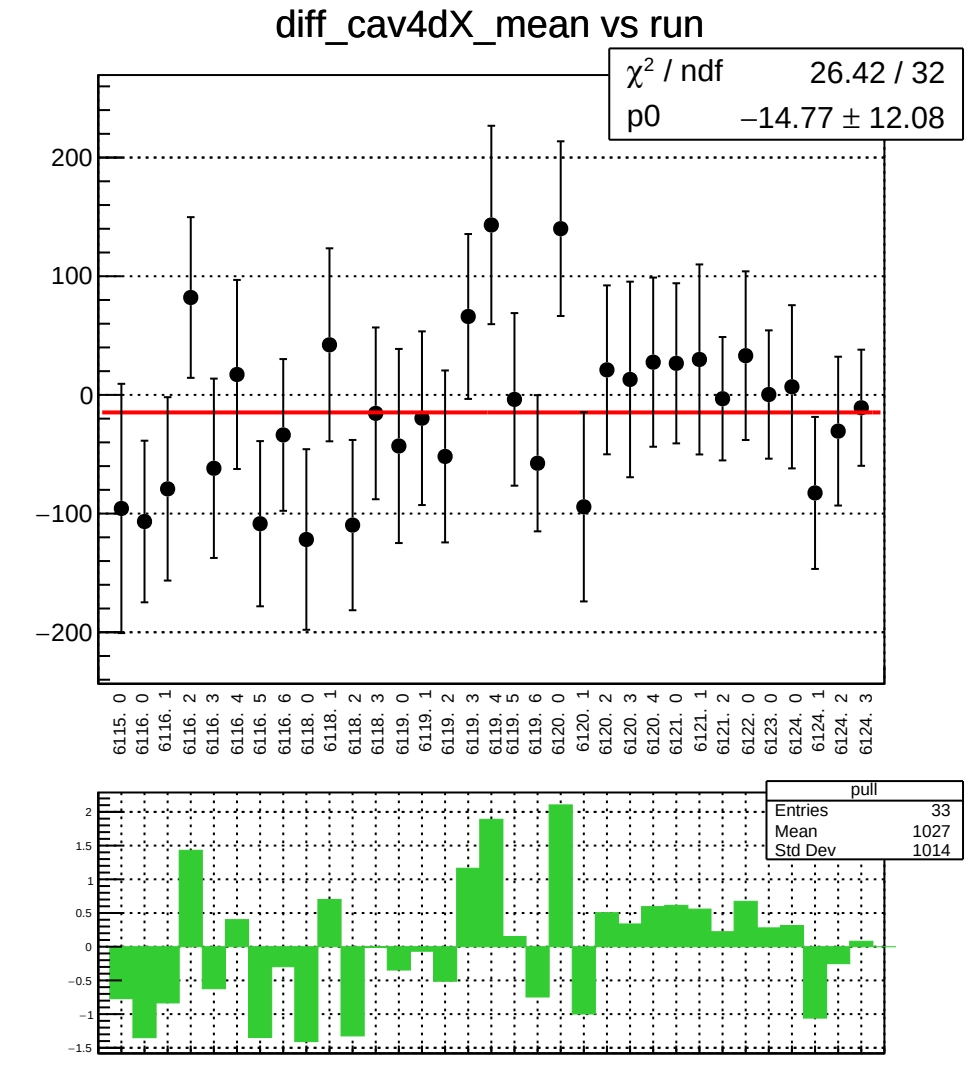

pull1D
Entries 33
Mean 0.001909
Std Dev 0.8971
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

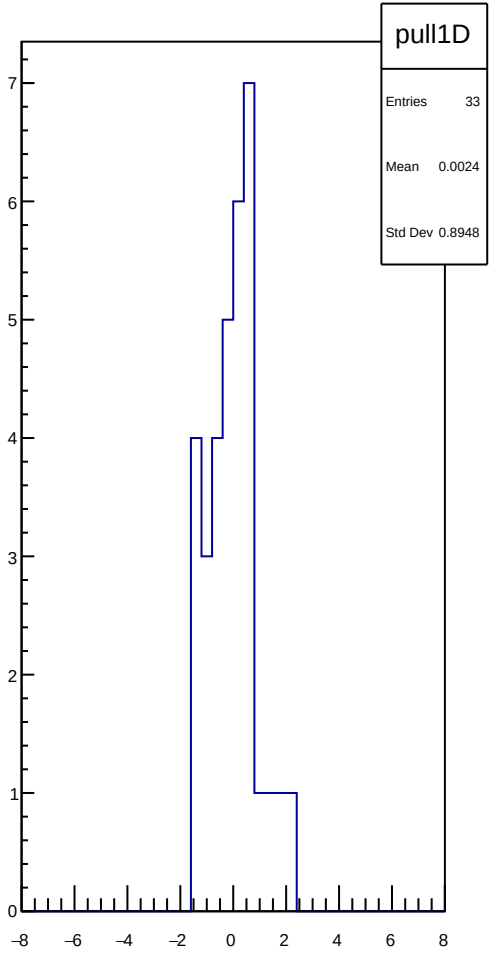

diff_cav4cX_rms vs run
χ² / ndf 2949 / 32
p0 1219 ± 1.512
1400
1350
1300
1250
1200
1150
1100
1050
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

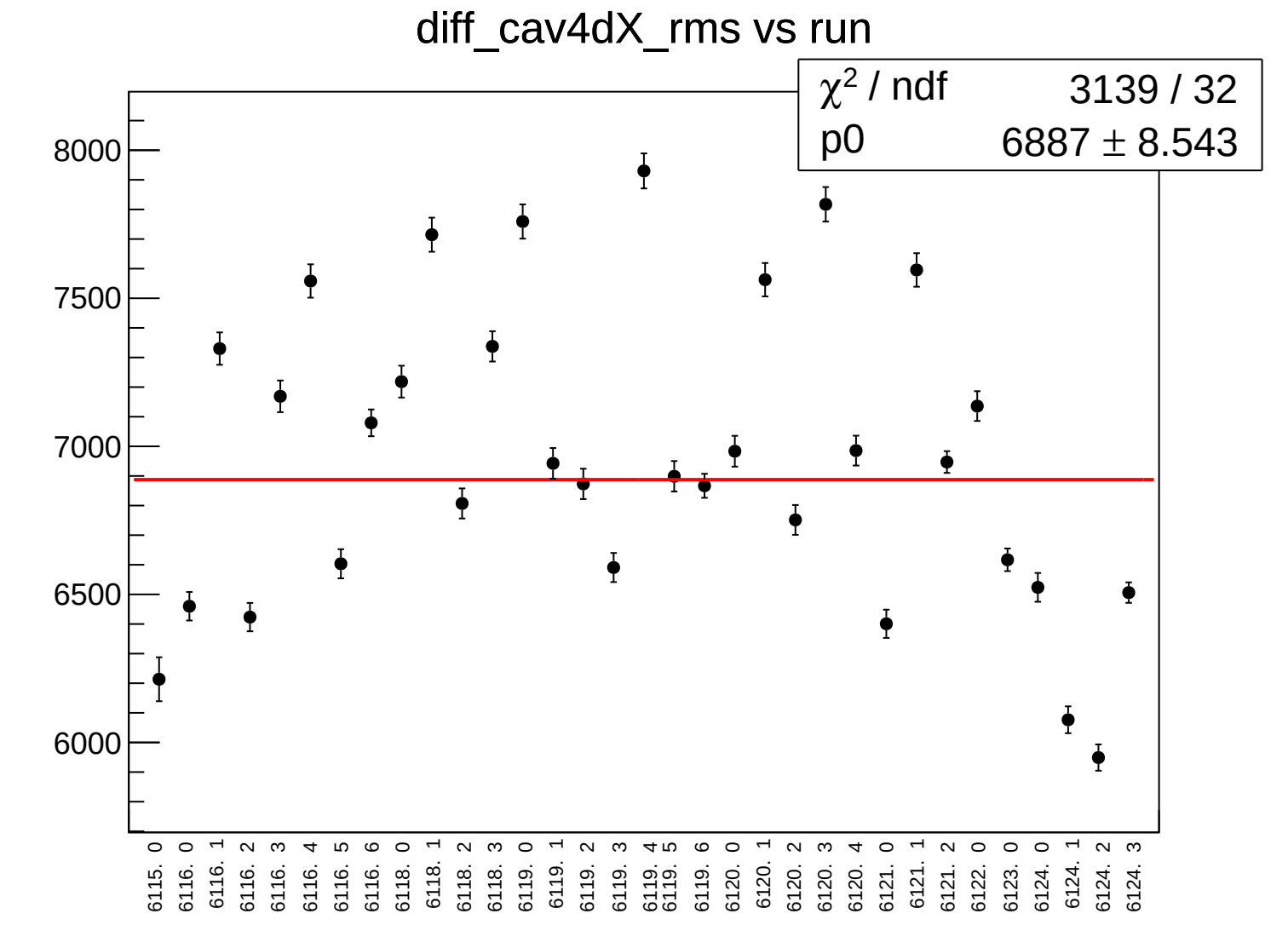

diff_cav4cY_mean vs run
χ² / ndf 37.72 / 32
p0 −0.5009 ± 1.168
30
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 23.96
Std Dev 24.49
3
2
1
0
−1

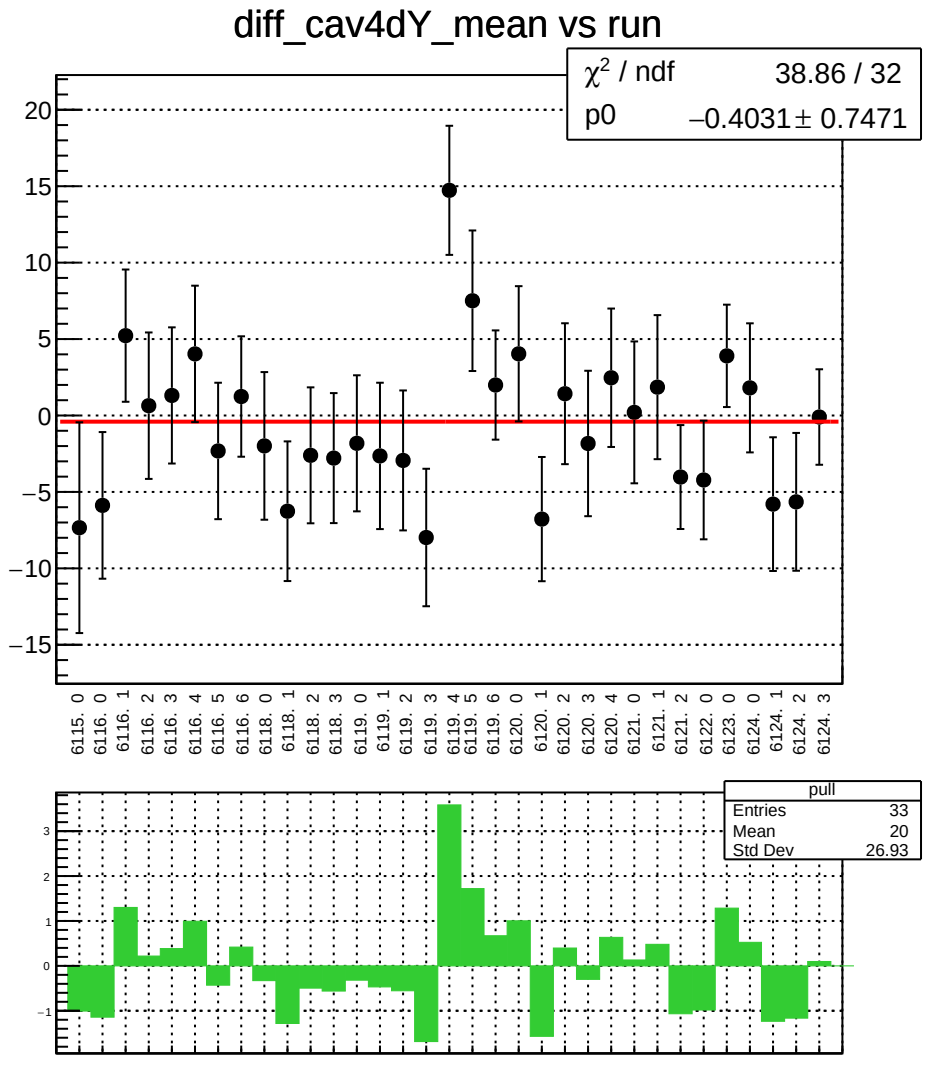

pull1D
Entries 33
Mean −0.02443
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

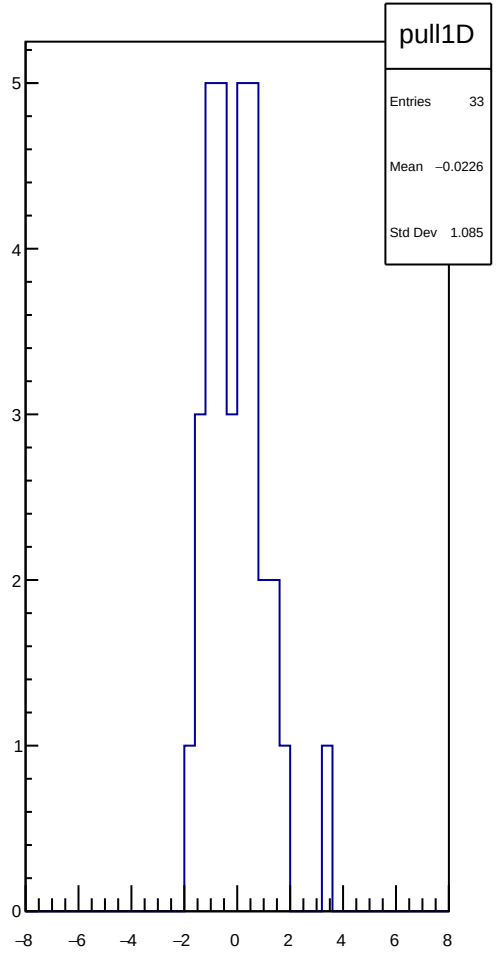

diff_cav4cY_rms vs run
χ² / ndf 1437 / 32
p0 666.5 ± 0.8257
740
720
700
680
660
640
620
600
580
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

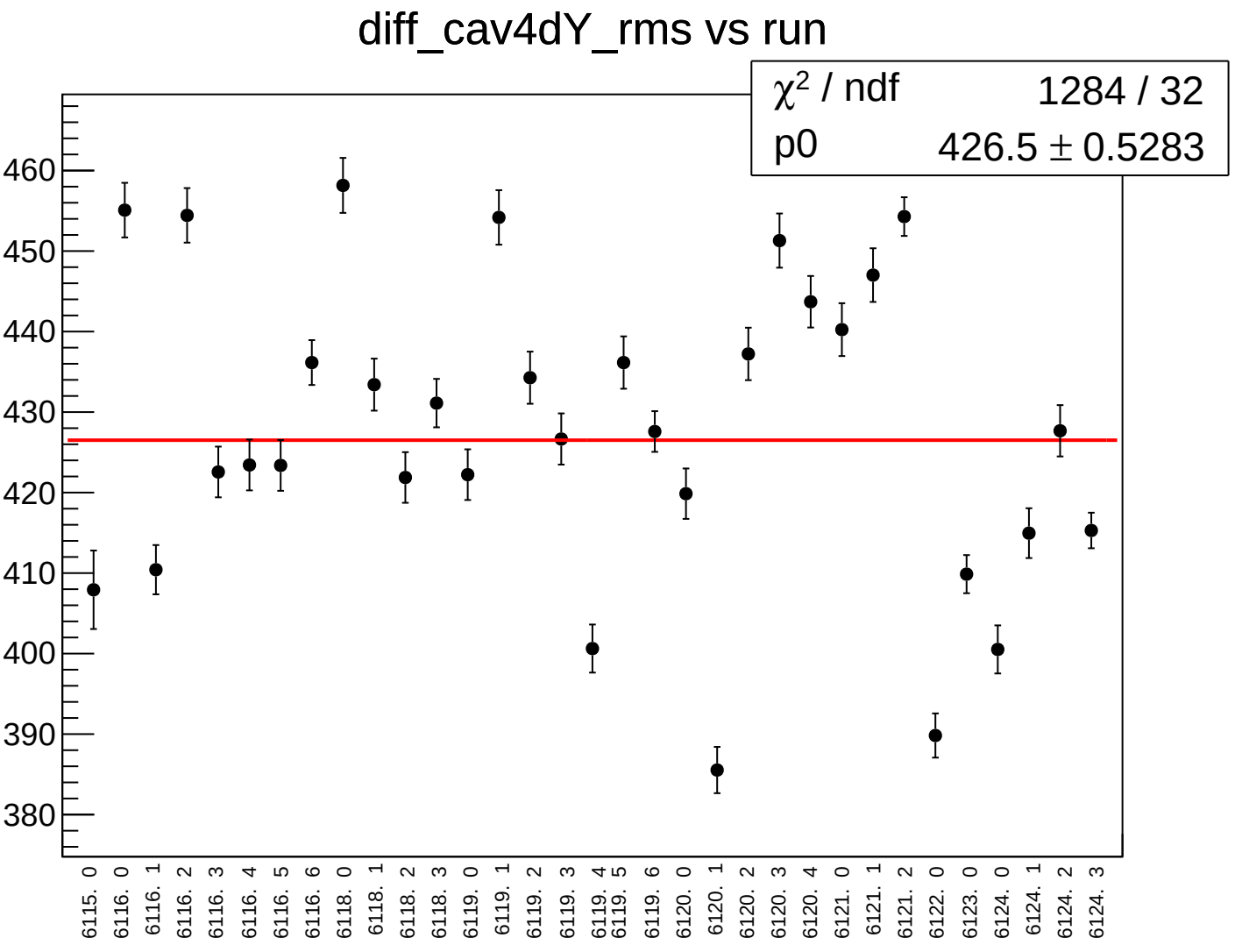

diff_cav4dX_mean vs run
χ² / ndf 26.42 / 32
p0 −14.77 ± 12.08
200
100
0
−100
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1027
Std Dev 1014
2
1.5
1
0.5
0
−0.5
−1
−1.5

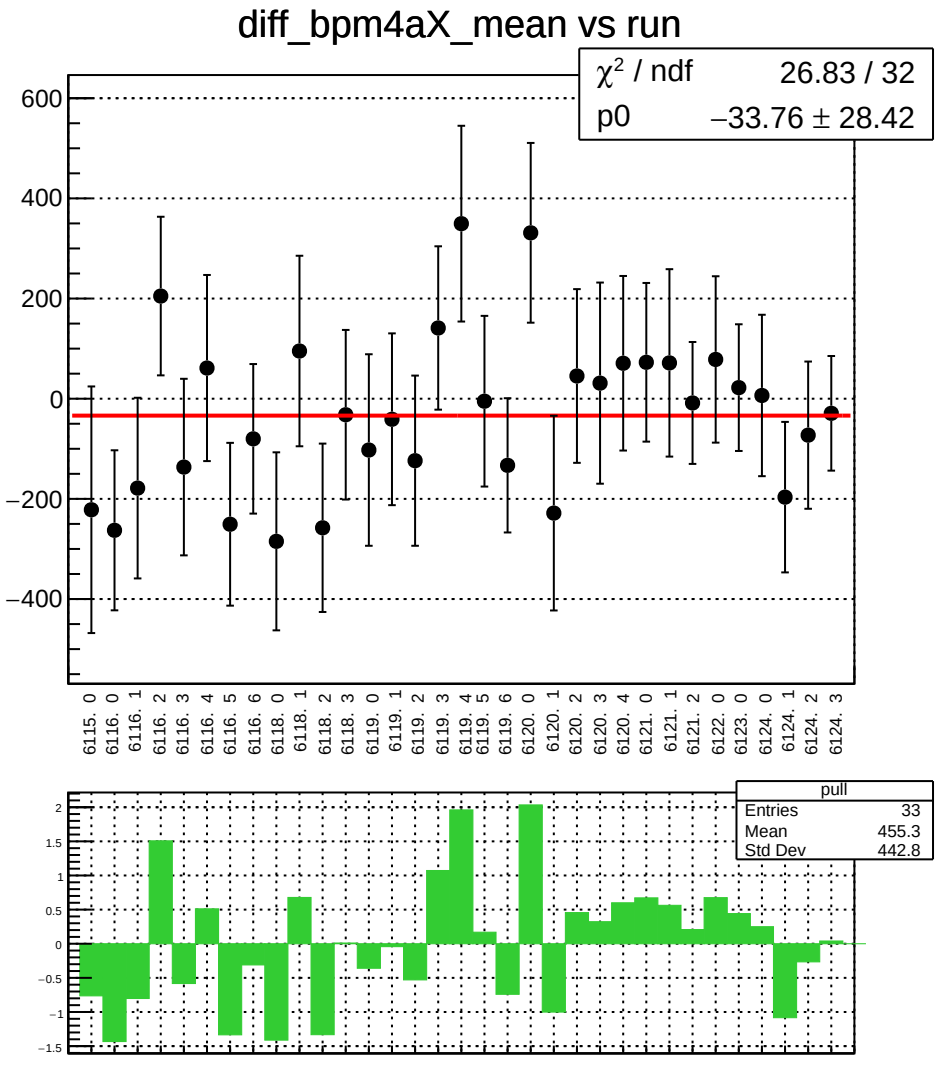

pull1D
Entries 33
Mean 0.0024
Std Dev 0.8948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

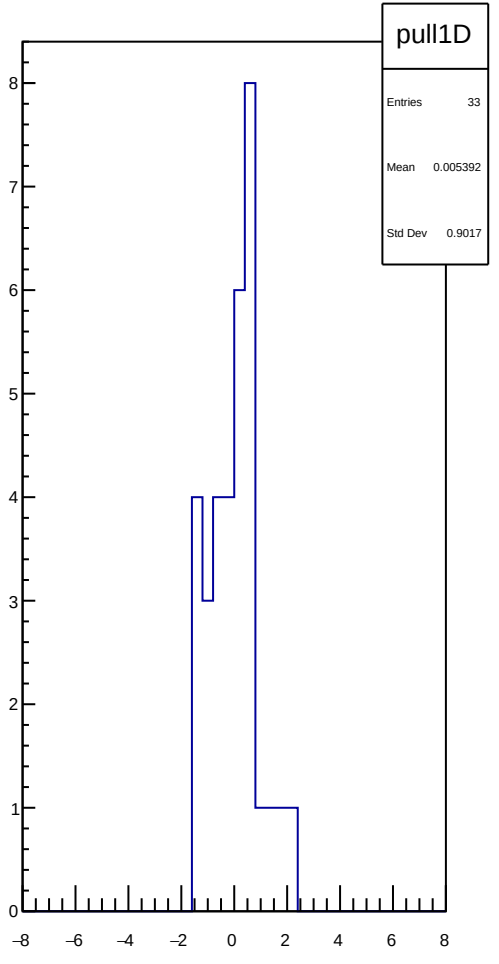

diff_cav4dX_rms vs run
χ² / ndf 3139 / 32
p0 6887 ± 8.543
8000
7500
7000
6500
6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

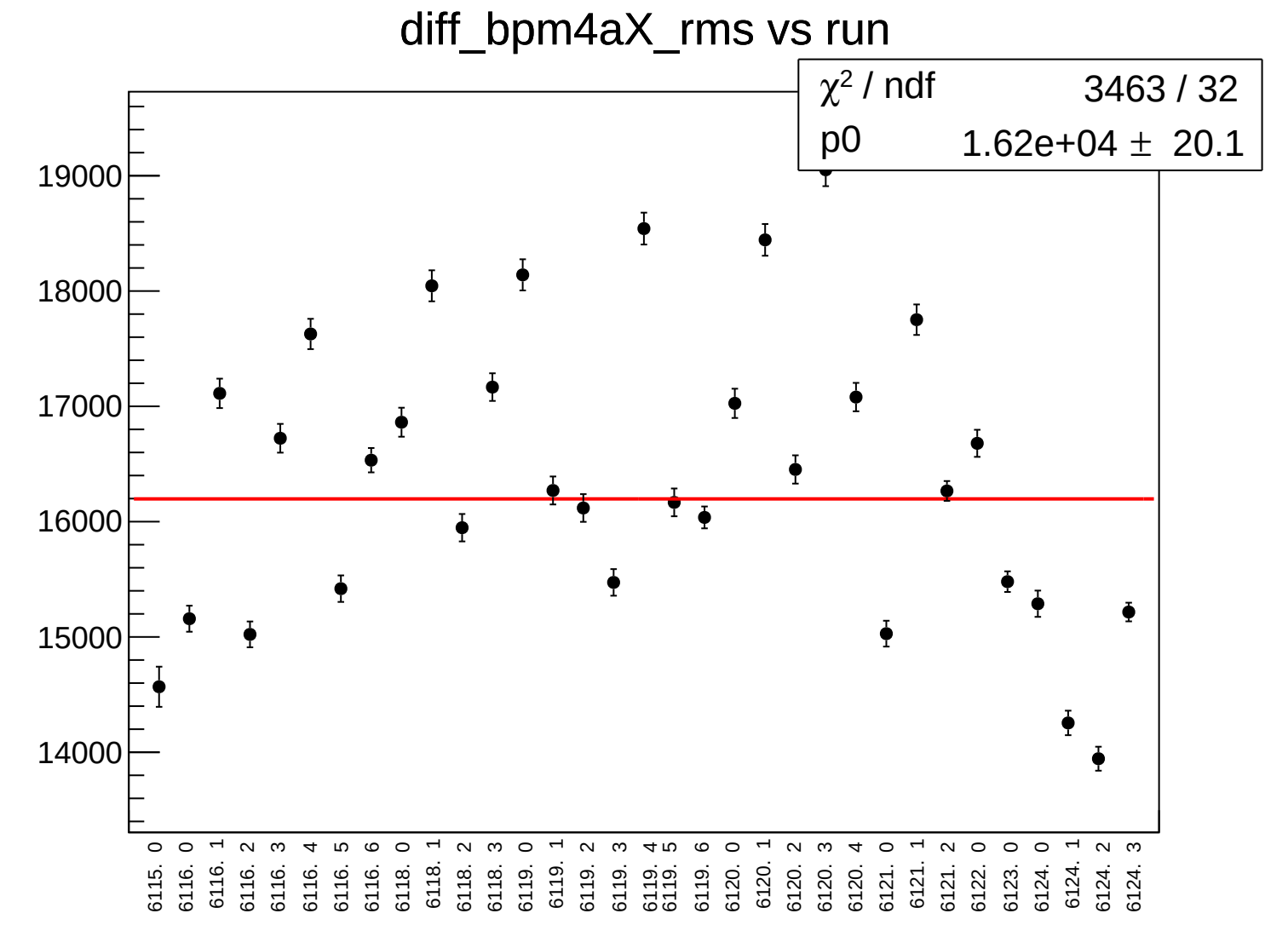

diff_cav4dY_mean vs run
χ² / ndf 38.86 / 32
p0 −0.4031 ± 0.7471
20
15
10
5
0
−5
−10
−15
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 20
Std Dev 26.93
3
2
1
0
−1

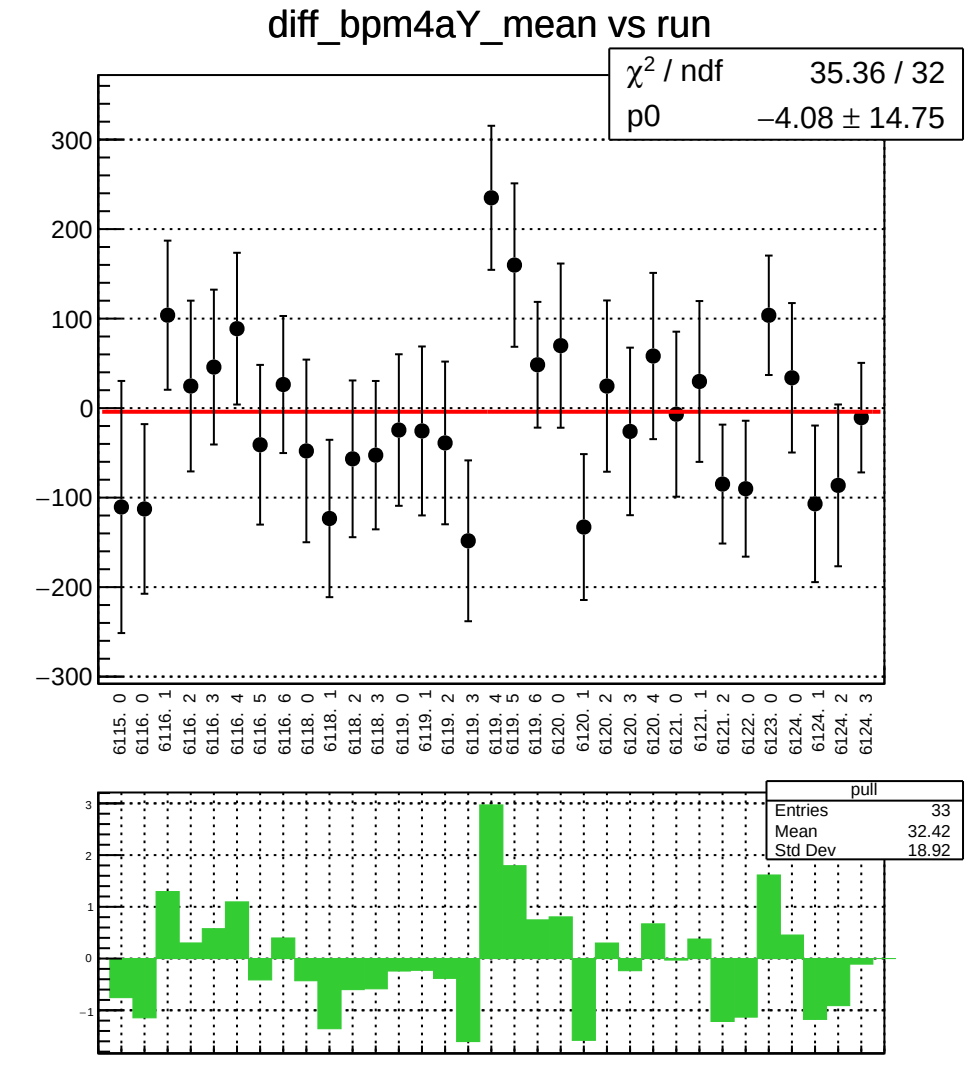

pull1D
Entries 33
Mean −0.0226
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

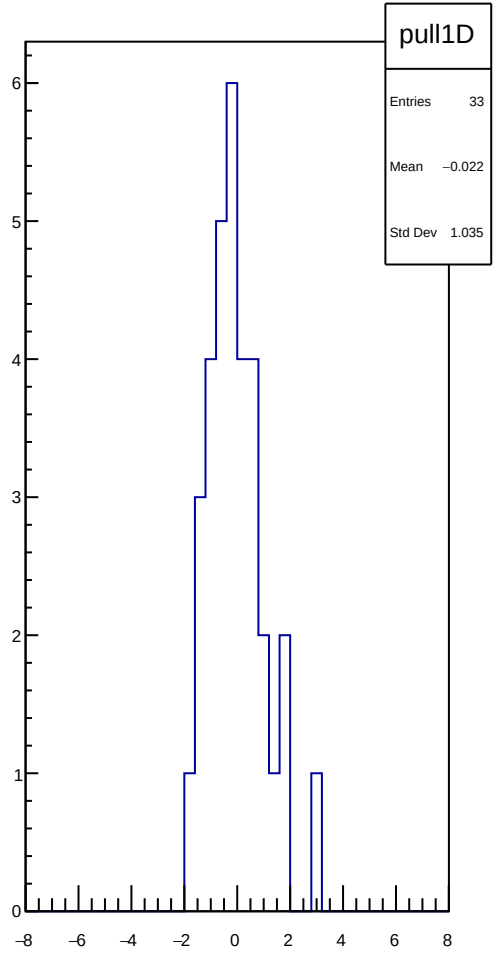

diff_cav4dY_rms vs run
χ² / ndf 1284 / 32
p0 426.5 ± 0.5283
460
450
440
430
420
410
400
390
380
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

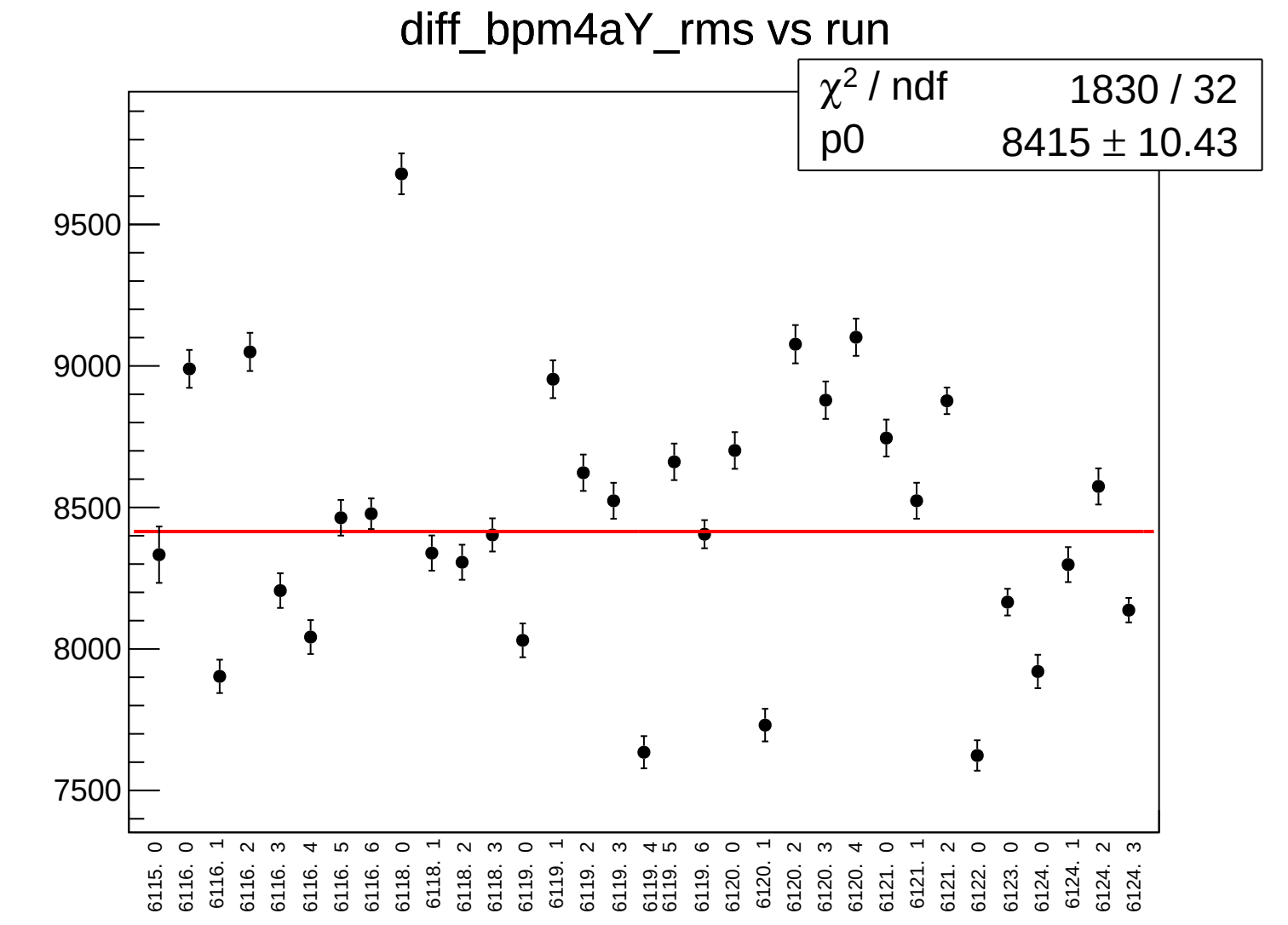

diff_bpm4aX_mean vs run
χ² / ndf 26.83 / 32
p0 −33.76 ± 28.42
600
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 455.3
Std Dev 442.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

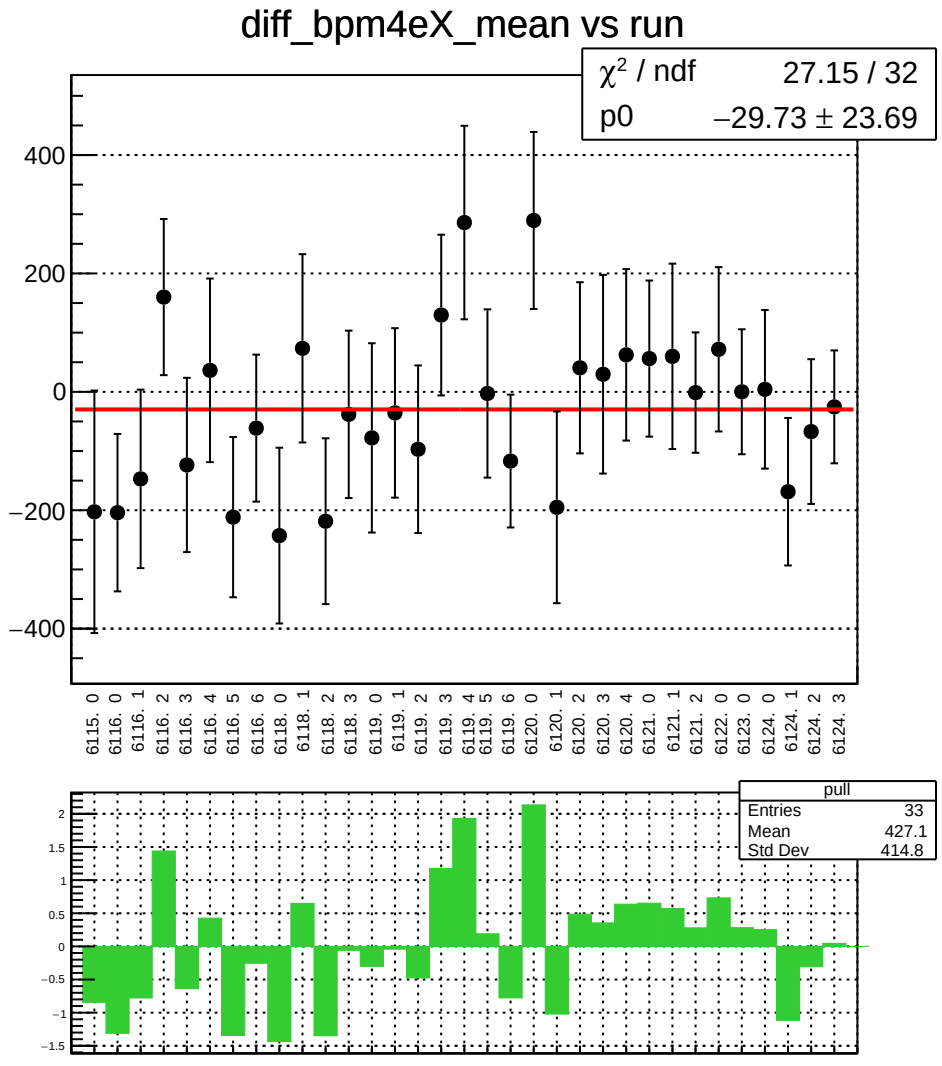

pull1D
Entries 33
Mean 0.005392
Std Dev 0.9017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

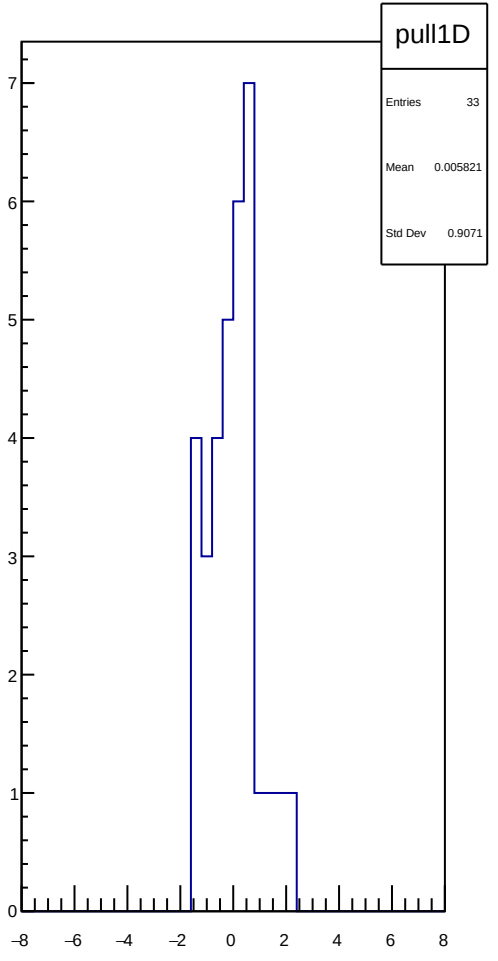

diff_bpm4aX_rms vs run
χ² / ndf 3463 / 32
p0 1.62e+04 ± 20.1
19000
18000
17000
16000
15000
14000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

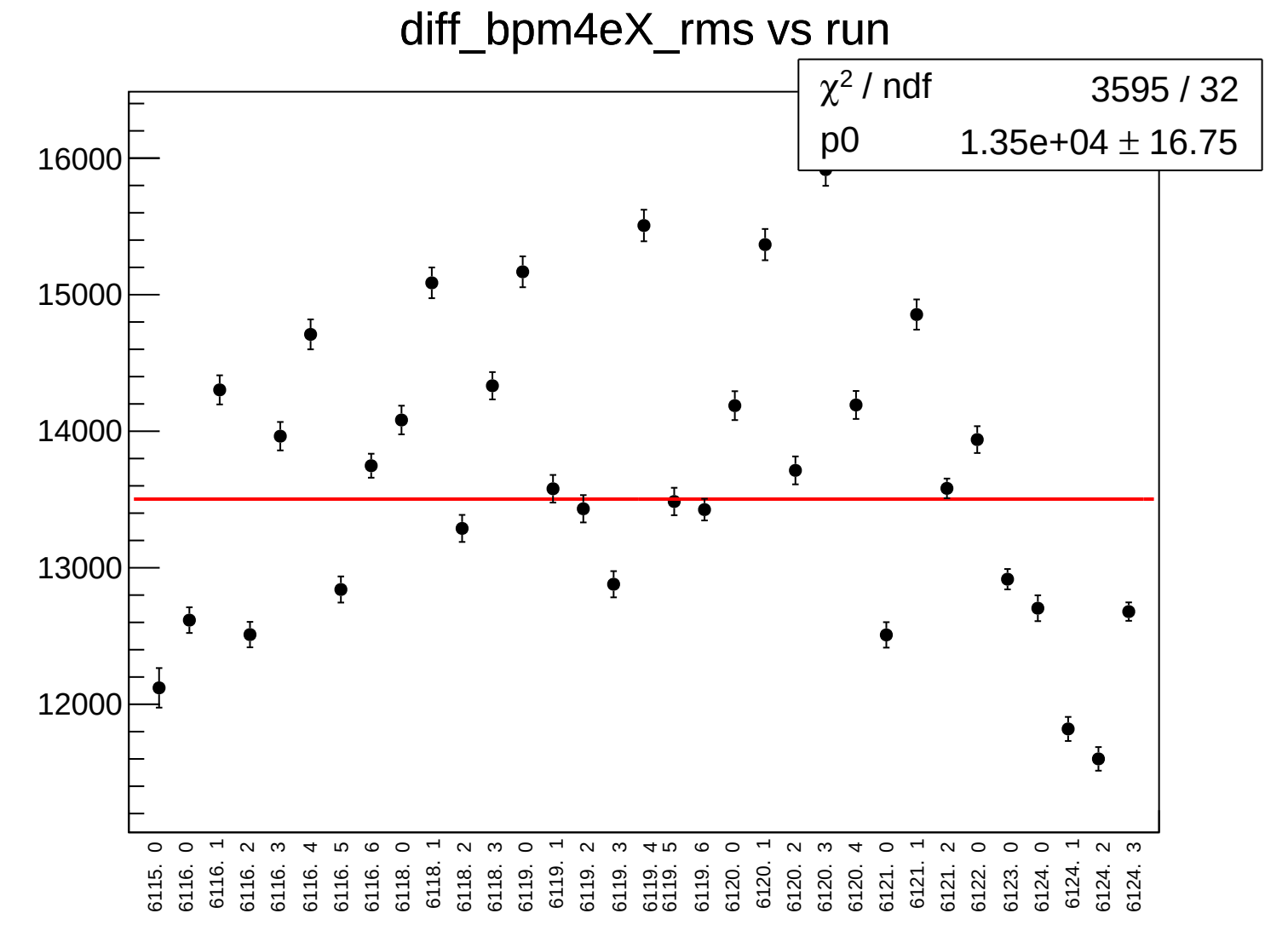

diff_bpm4aY_mean vs run
χ² / ndf 35.36 / 32
p0 −4.08 ± 14.75
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 32.42
Std Dev 18.92
3
2
1
0
−1

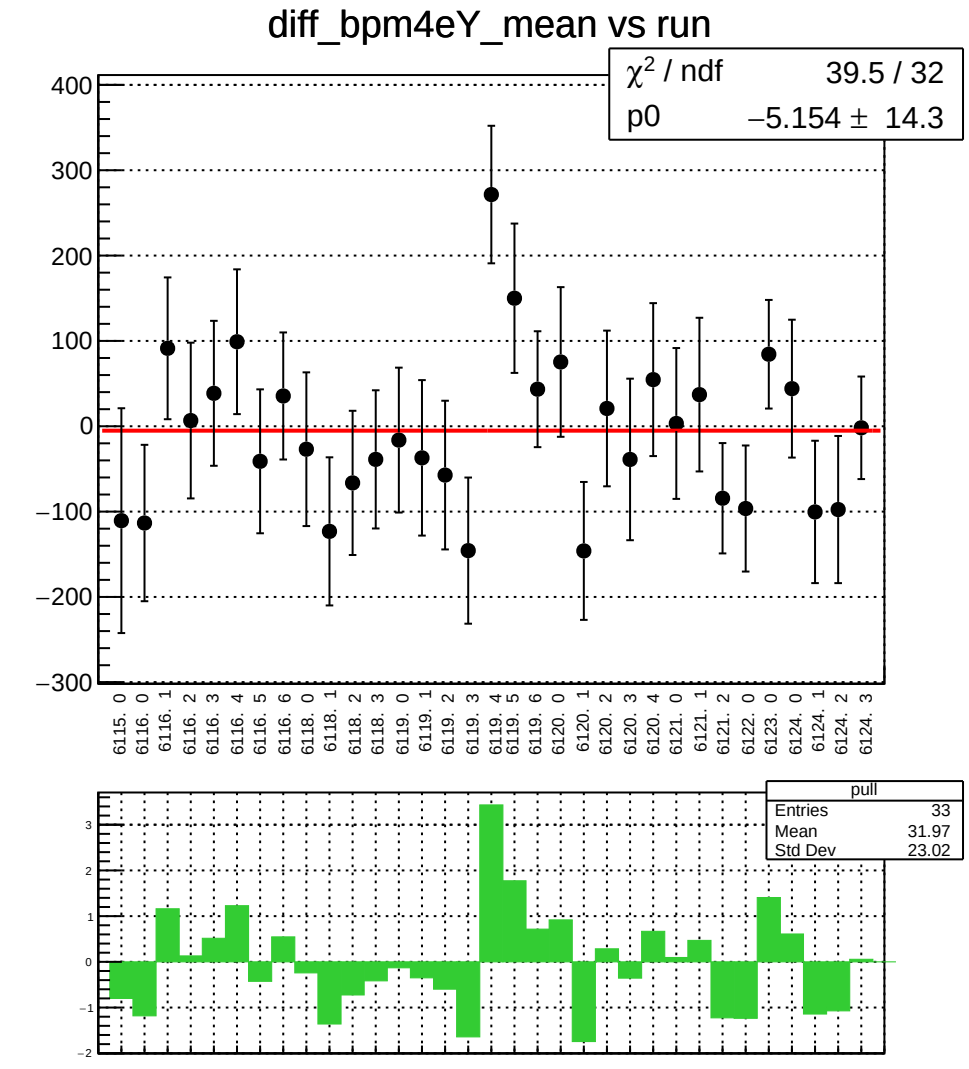

pull1D
Entries 33
Mean −0.022
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

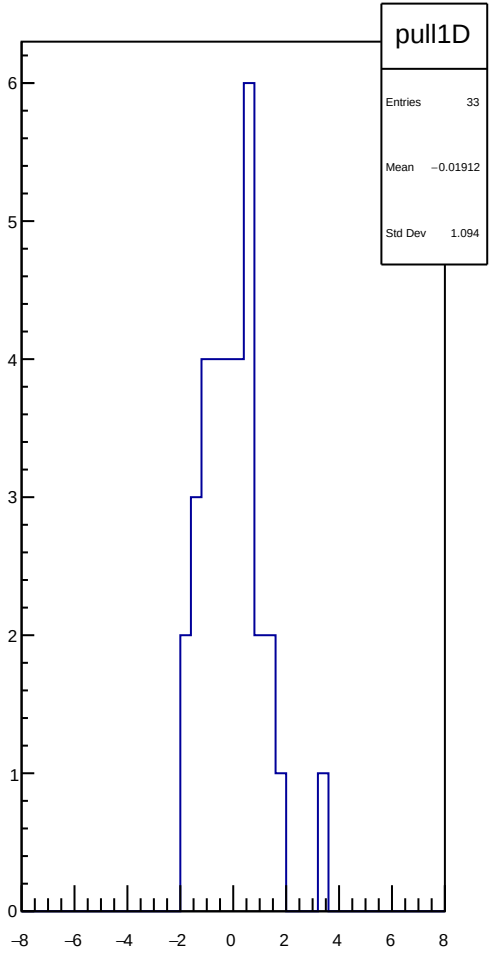

diff_bpm4aY_rms vs run
χ² / ndf 1830 / 32
p0 8415 ± 10.43
9500
9000
8500
8000
7500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

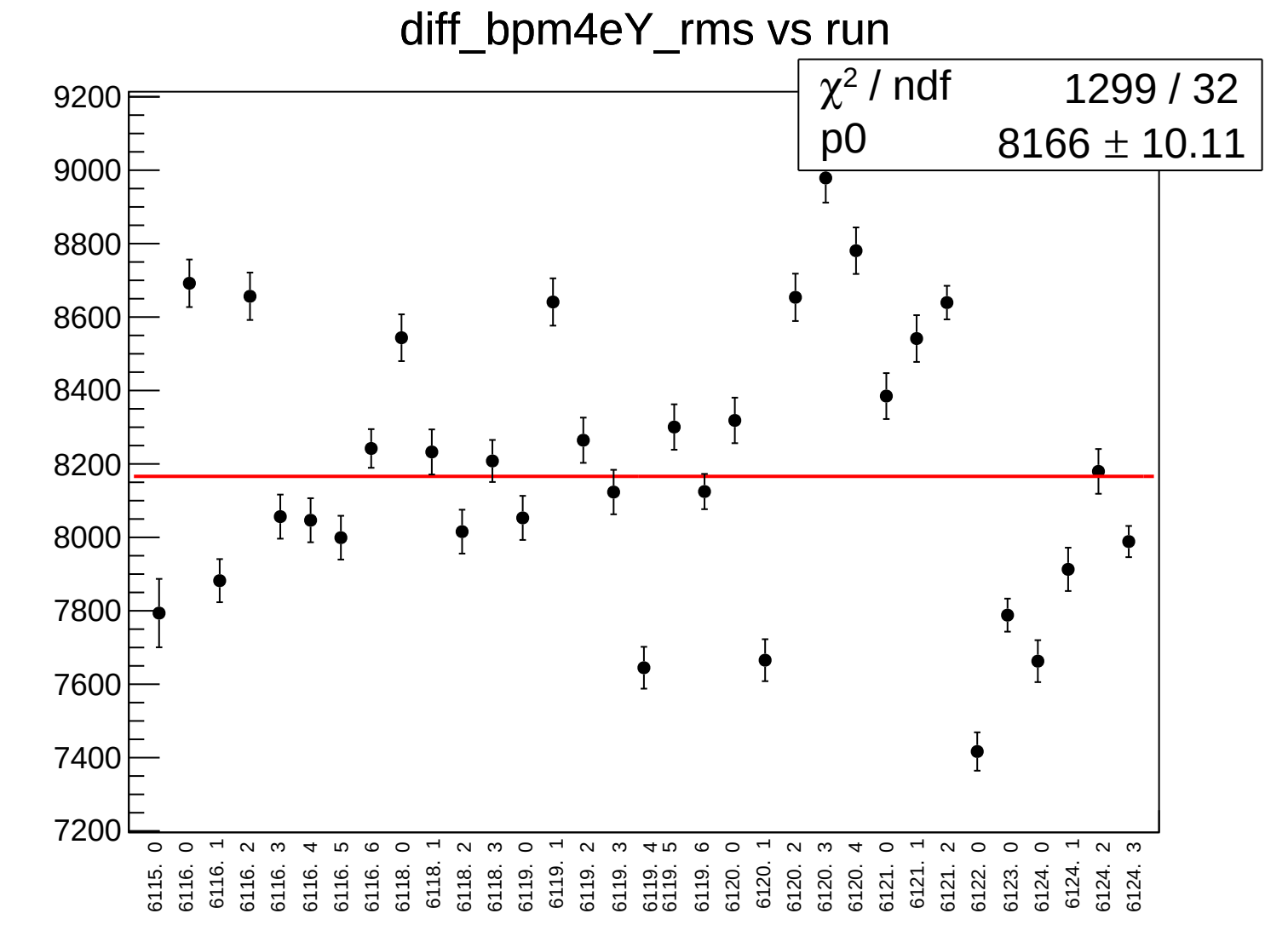

diff_bpm4eX_mean vs run
χ² / ndf 27.15 / 32
p0 −29.73 ± 23.69
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 427.1
Std Dev 414.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

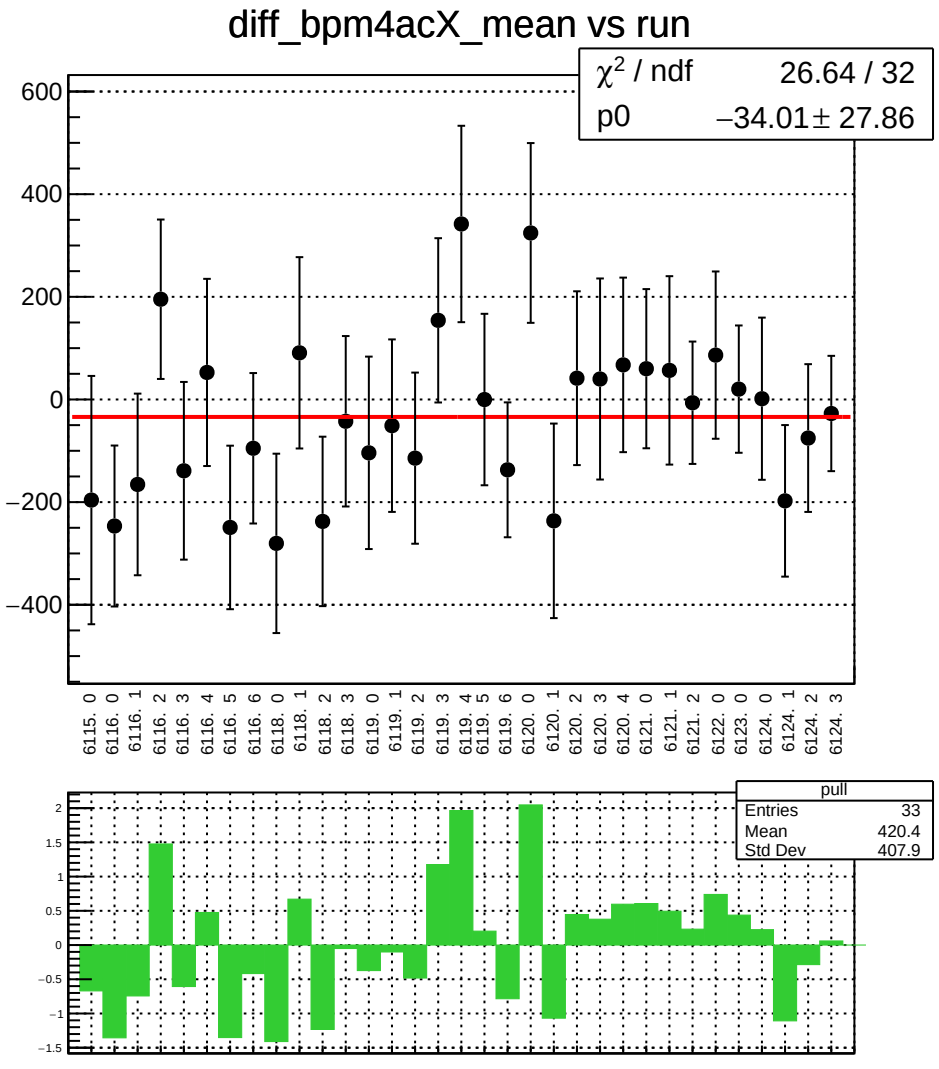

pull1D
Entries 33
Mean 0.005821
Std Dev 0.9071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

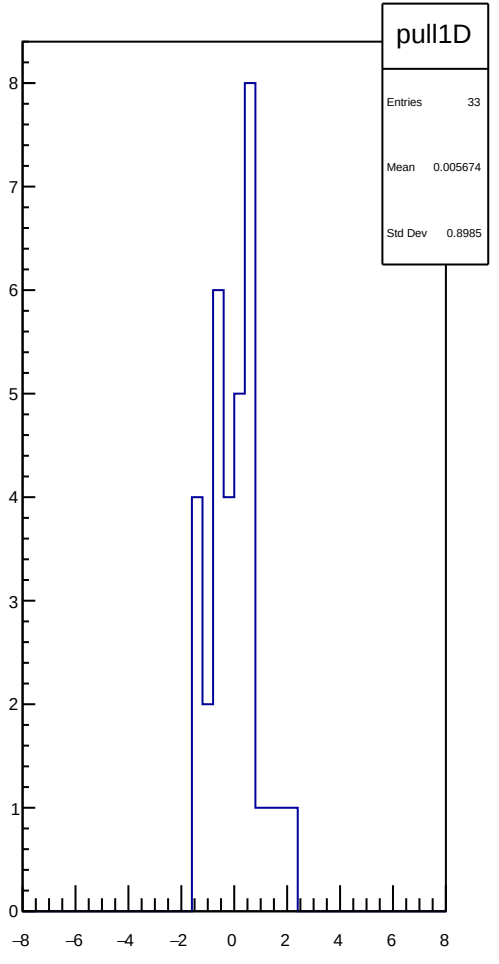

diff_bpm4eX_rms vs run
χ² / ndf 3595 / 32
p0 1.35e+04 ± 16.75
16000
15000
14000
13000
12000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

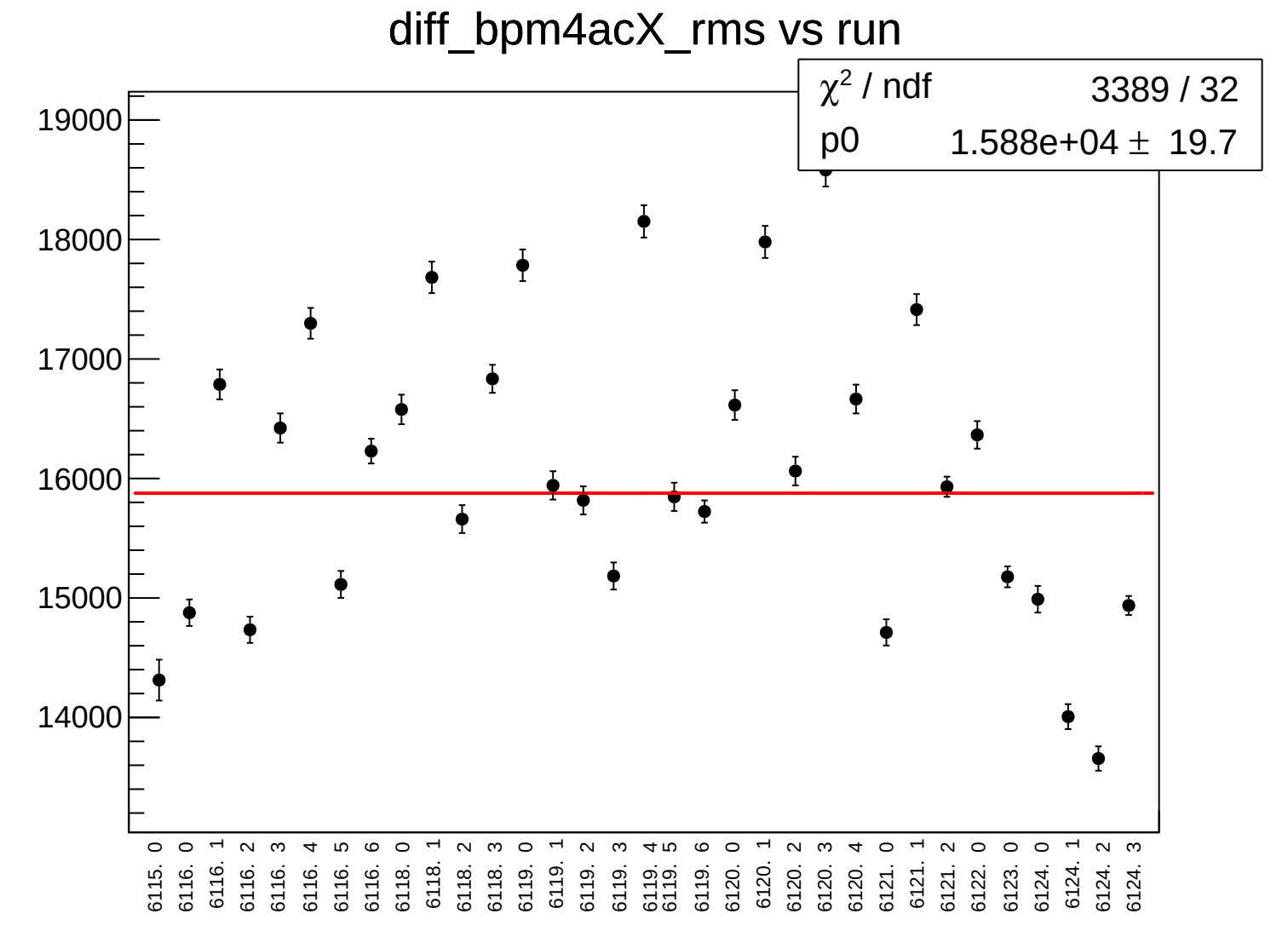

diff_bpm4eY_mean vs run
χ² / ndf 39.5 / 32
p0 −5.154 ± 14.3
400
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 31.97
Std Dev 23.02
3
2
1
0
−1
−2

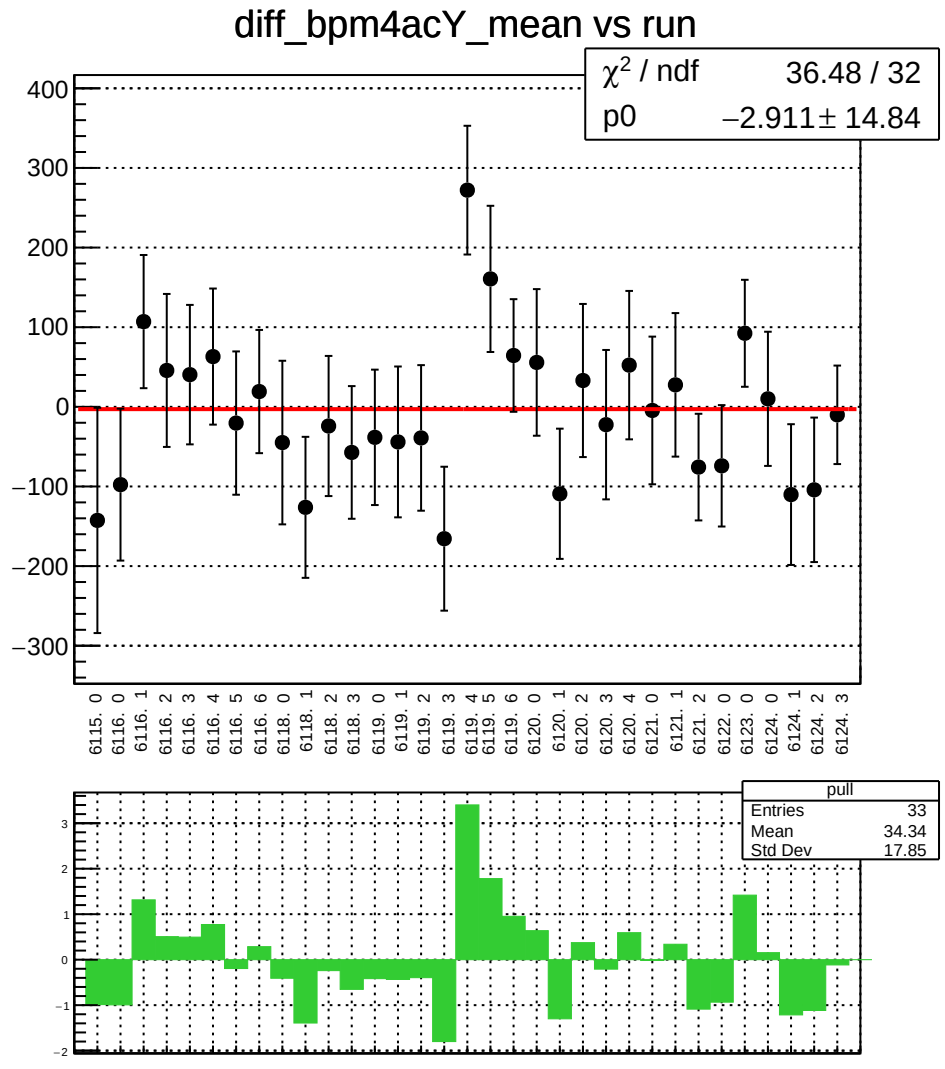

pull1D
Entries 33
Mean −0.01912
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

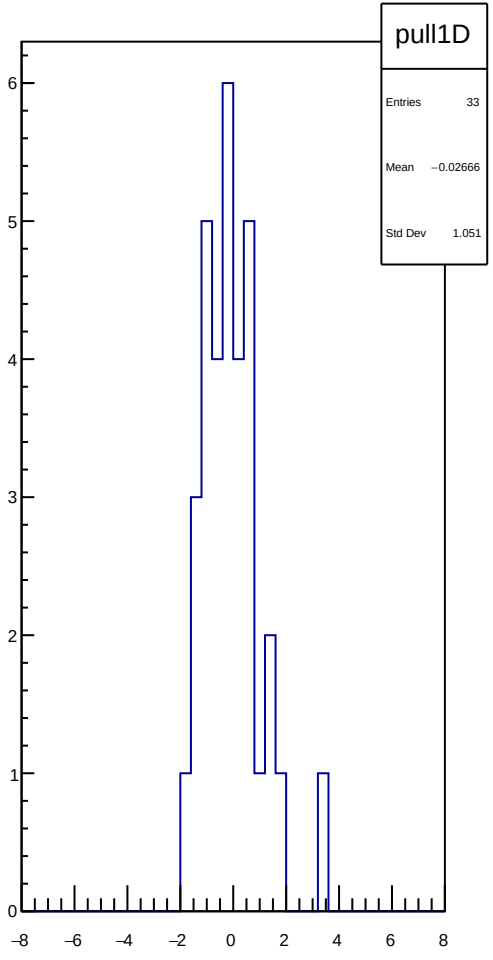

diff_bpm4eY_rms vs run
χ² / ndf 1299 / 32
p0 8166 ± 10.11
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

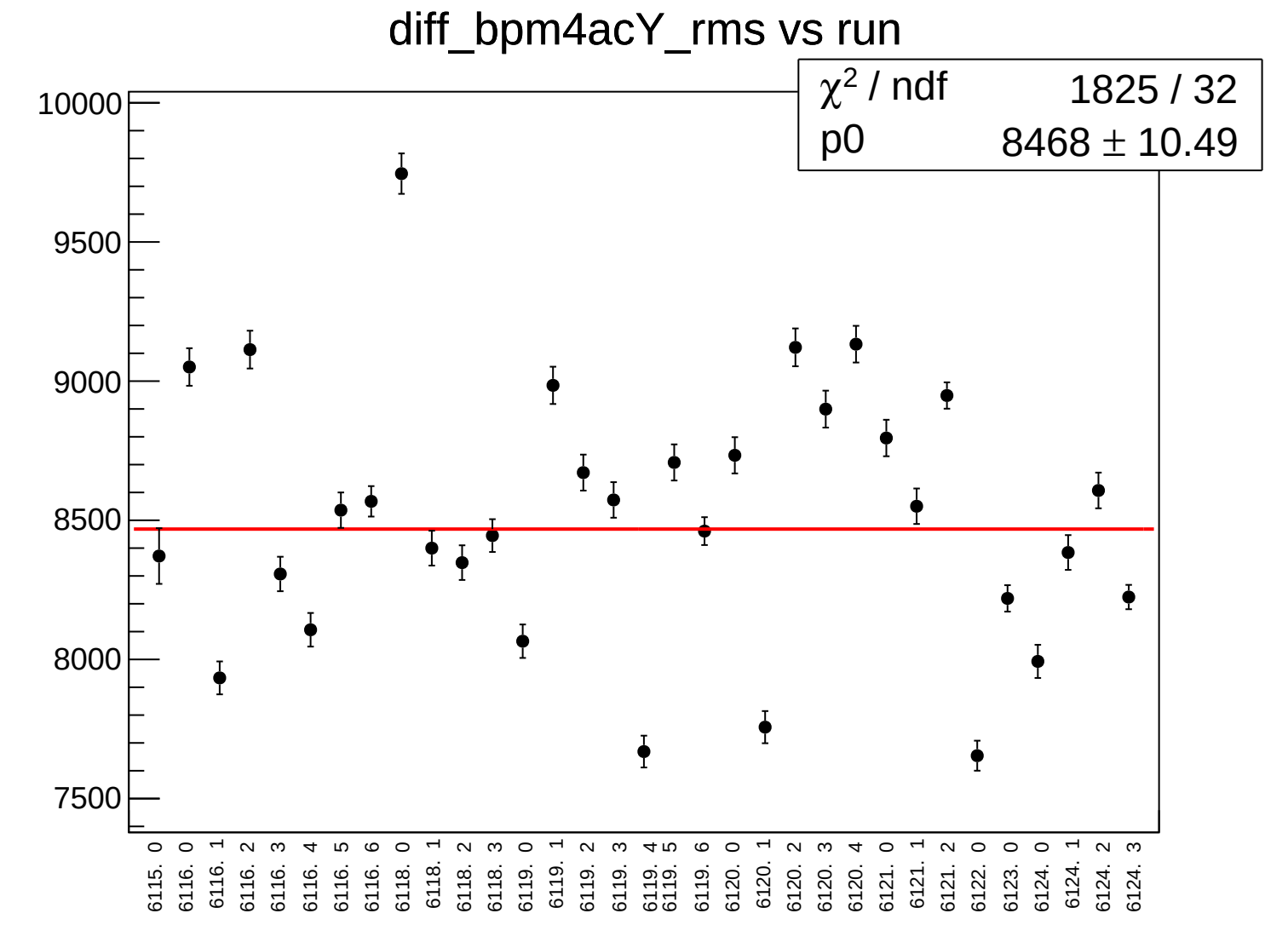

diff_bpm4acX_mean vs run
χ² / ndf 26.64 / 32
p0 −34.01± 27.86
600
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 420.4
Std Dev 407.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

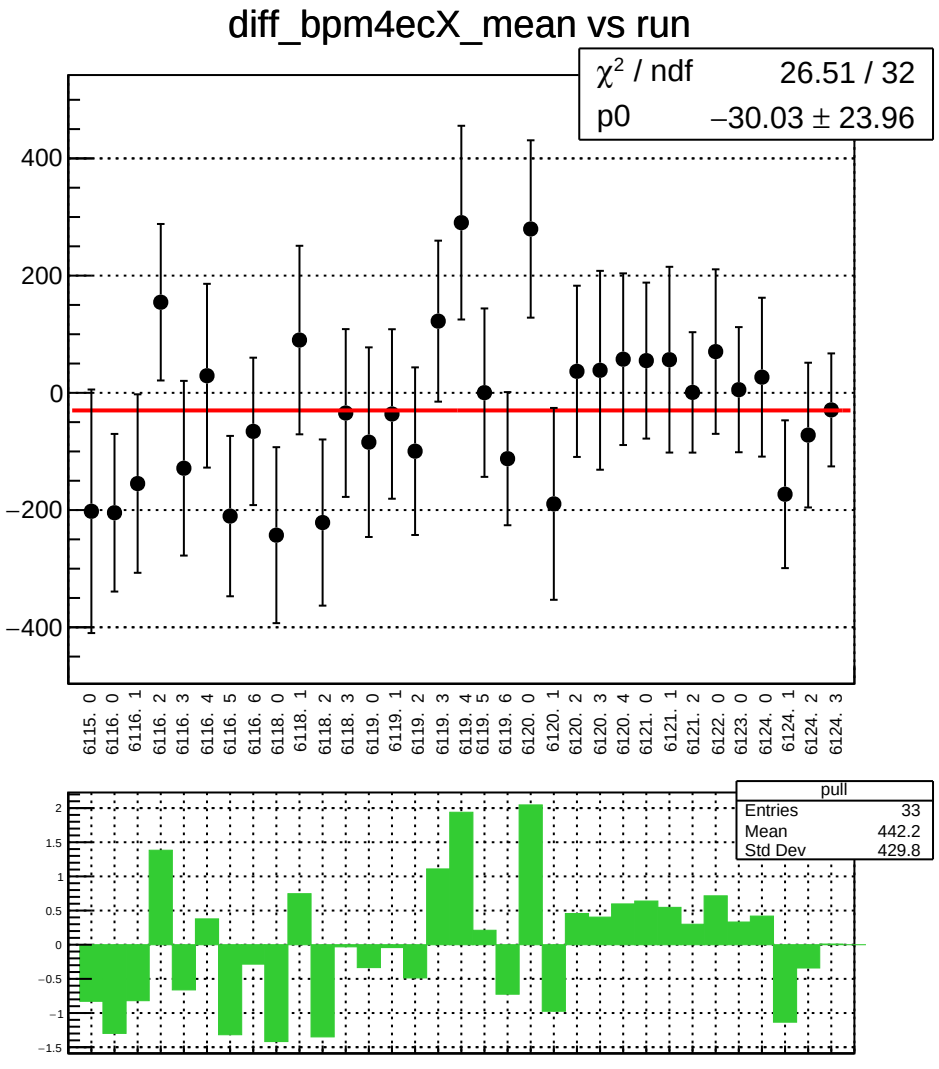

pull1D
Entries 33
Mean 0.005674
Std Dev 0.8985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

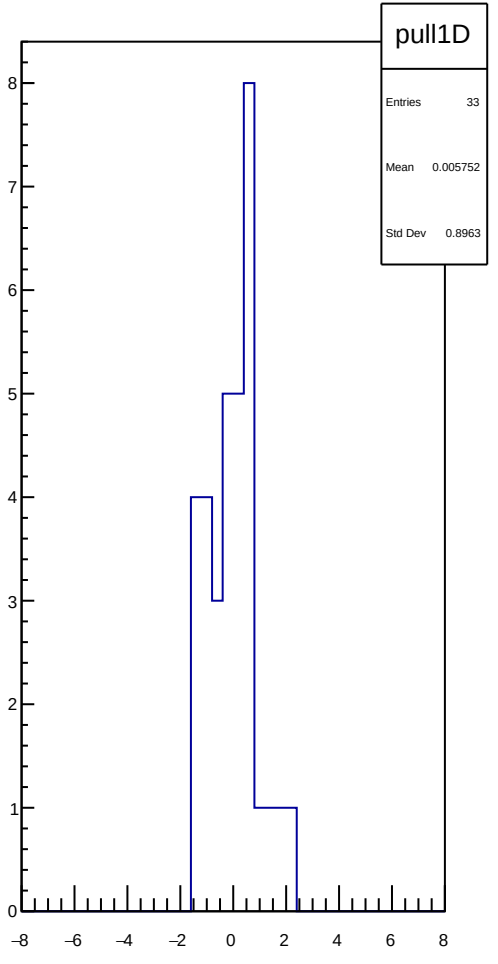

diff_bpm4acX_rms vs run
χ² / ndf 3389 / 32
p0 1.588e+04 ± 19.7
19000
18000
17000
16000
15000
14000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

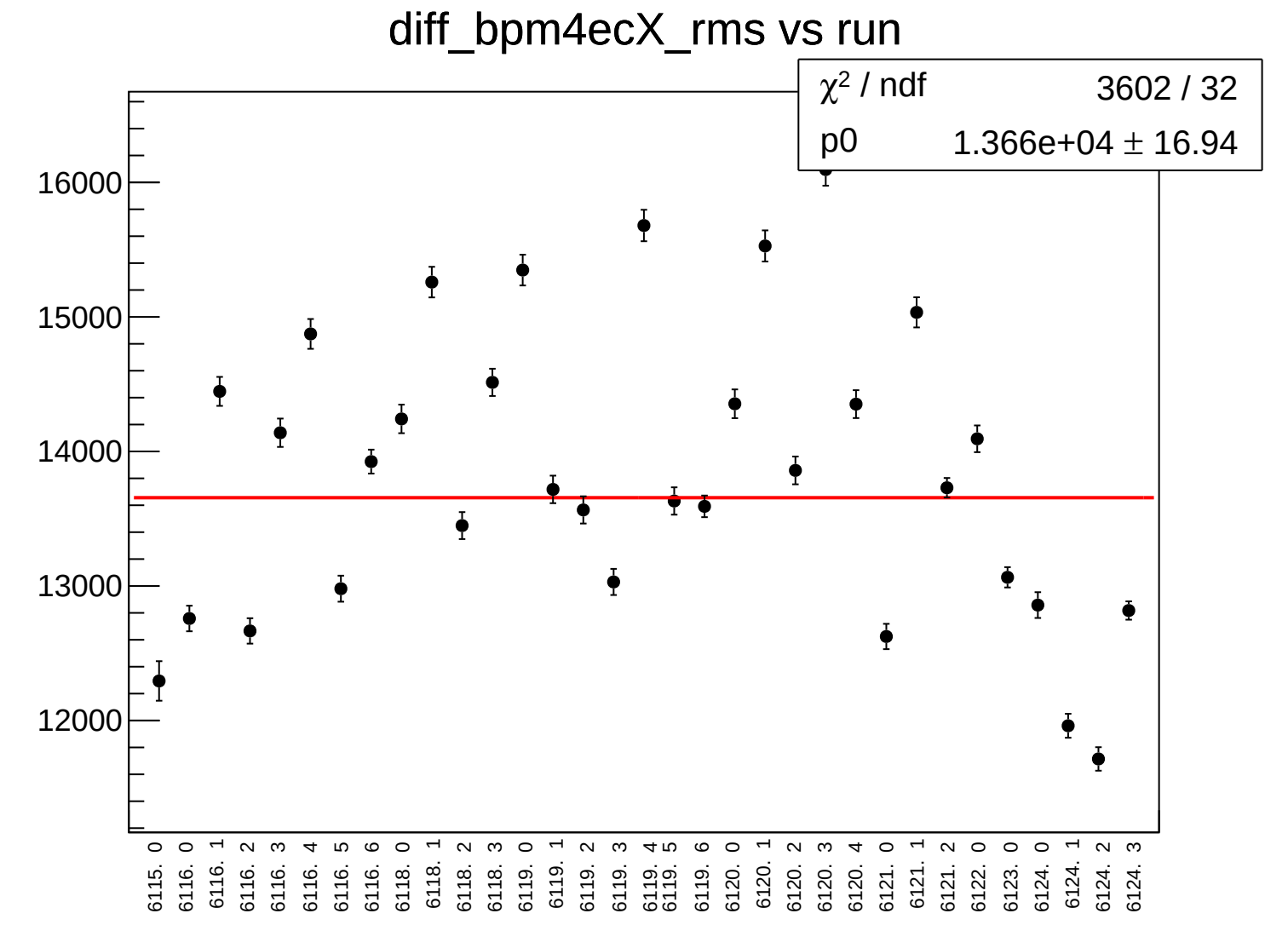

diff_bpm4acY_mean vs run
χ² / ndf 36.48 / 32
p0 −2.911± 14.84
400
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 34.34
Std Dev 17.85
3
2
1
0
−1
−2

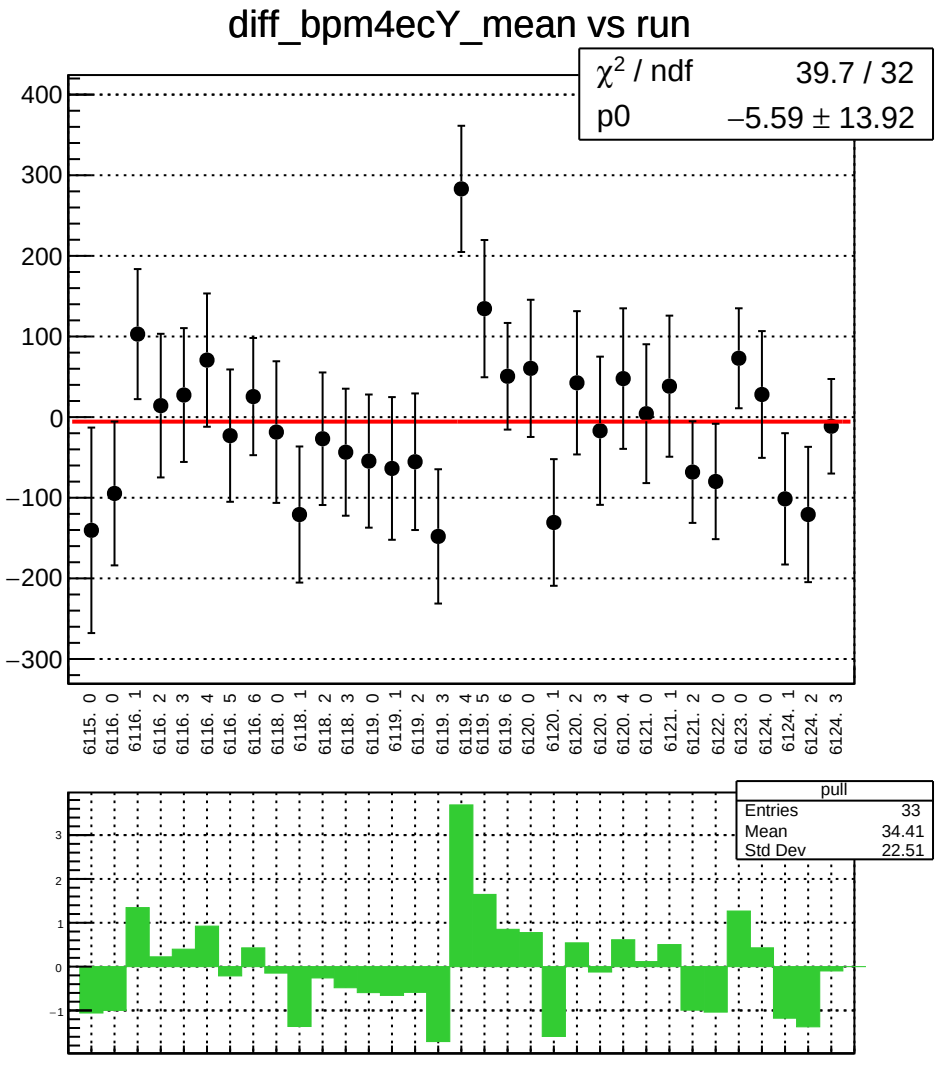

pull1D
Entries 33
Mean −0.02666
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

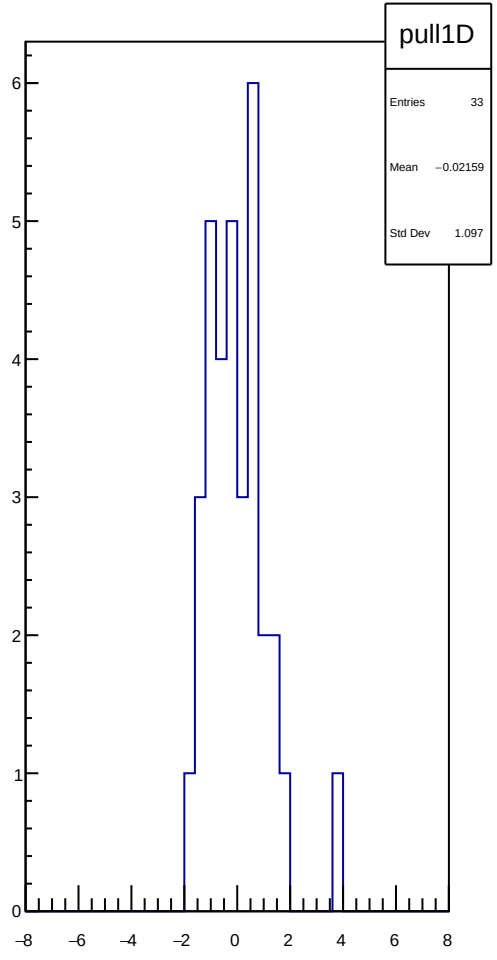

diff_bpm4acY_rms vs run
χ² / ndf 1825 / 32
p0 8468 ± 10.49
10000
9500
9000
8500
8000
7500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

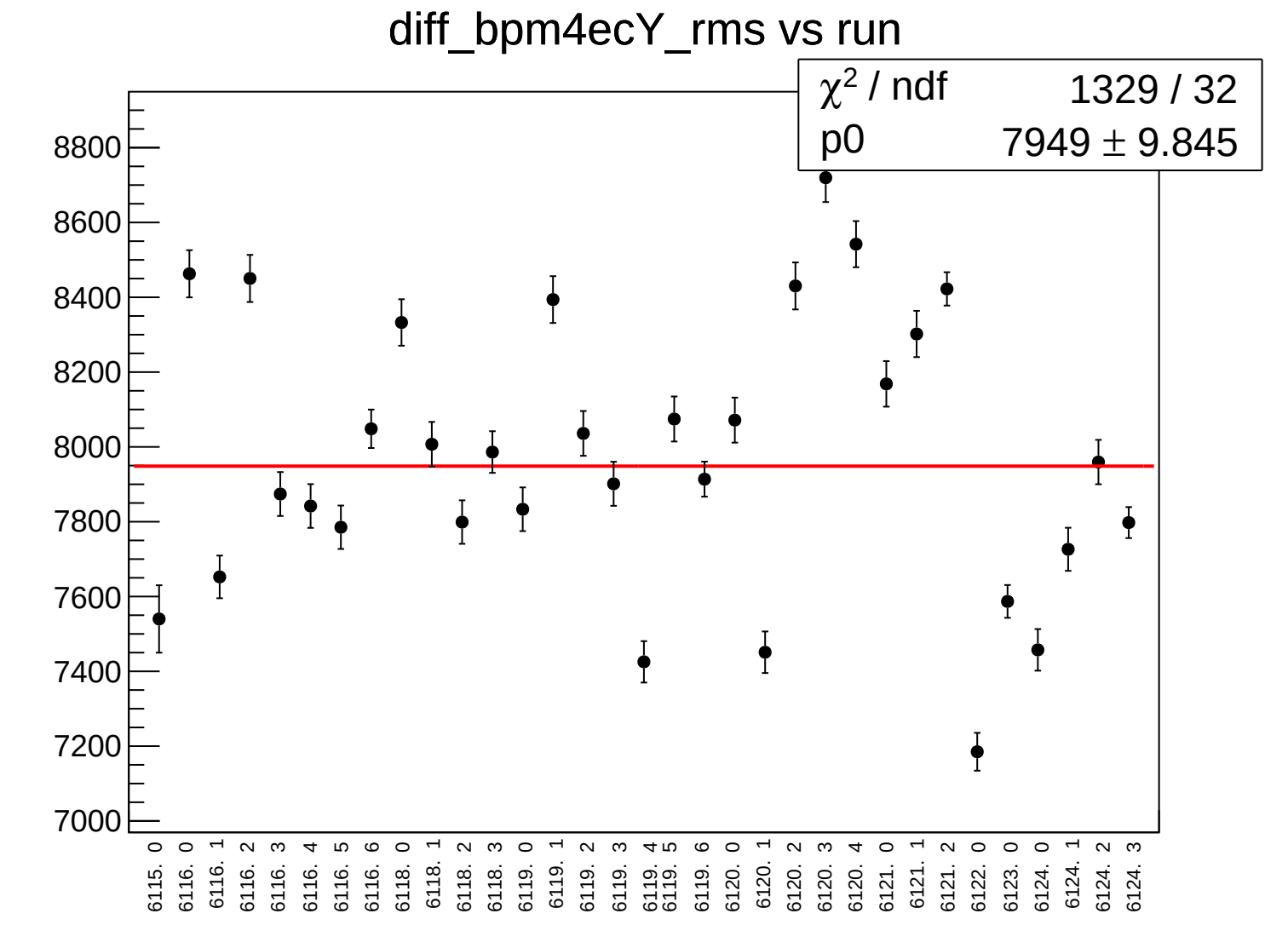

diff_bpm4ecX_mean vs run
χ² / ndf 26.51 / 32
p0 −30.03 ± 23.96
400
200
0
−200
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 442.2
Std Dev 429.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

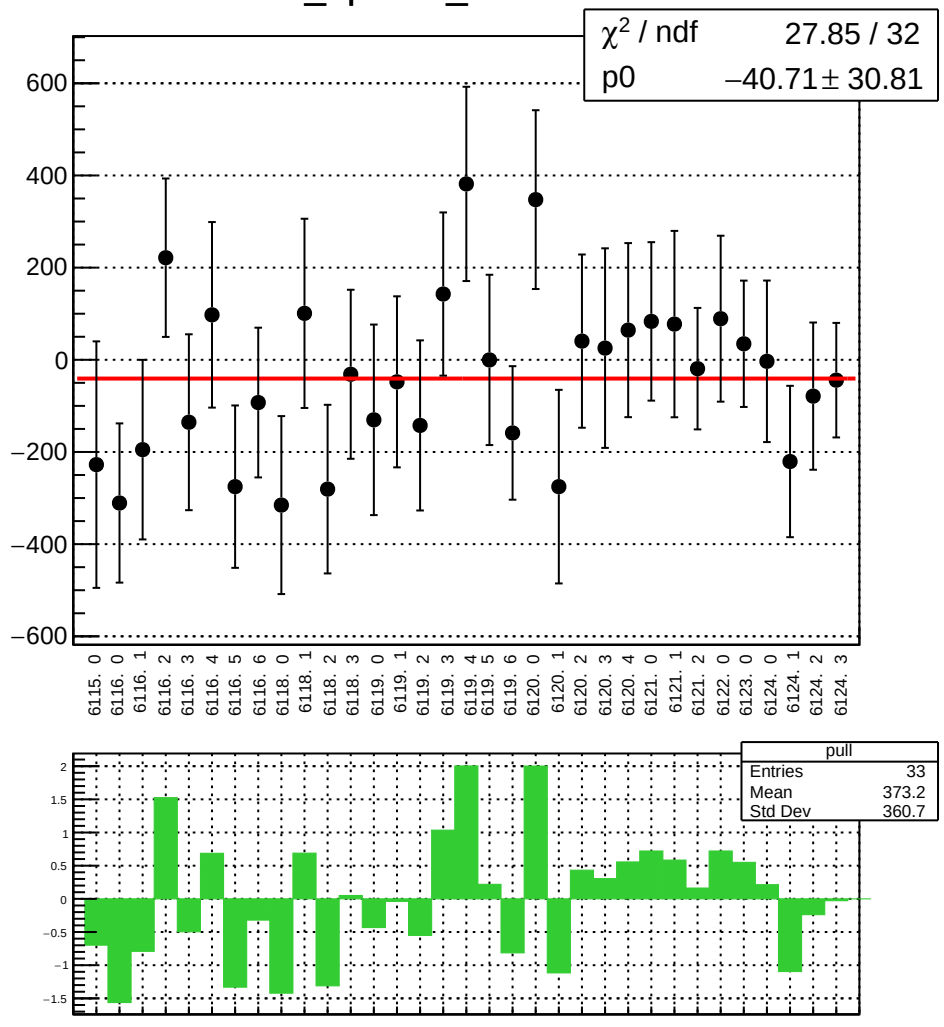

pull1D
Entries 33
Mean 0.005752
Std Dev 0.8963
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

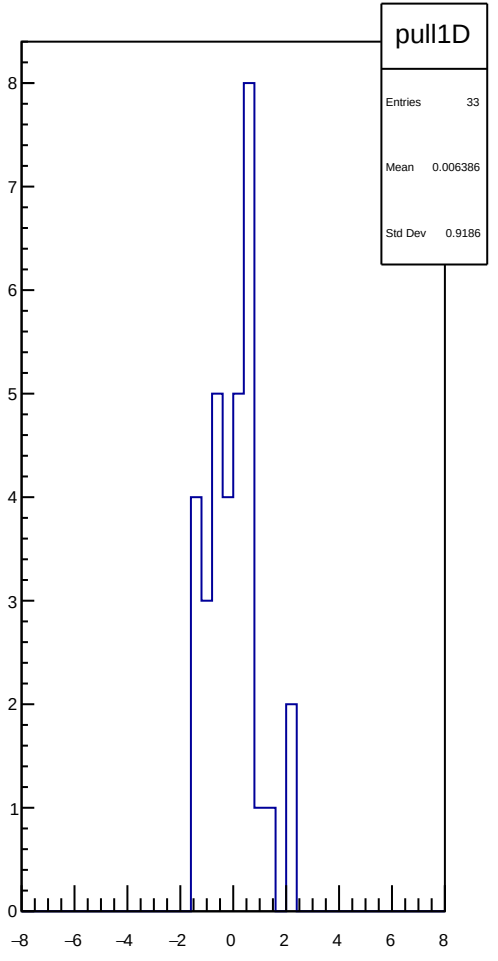

diff_bpm4ecX_rms vs run
χ² / ndf 3602 / 32
p0 1.366e+04 ± 16.94
16000
15000
14000
13000
12000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

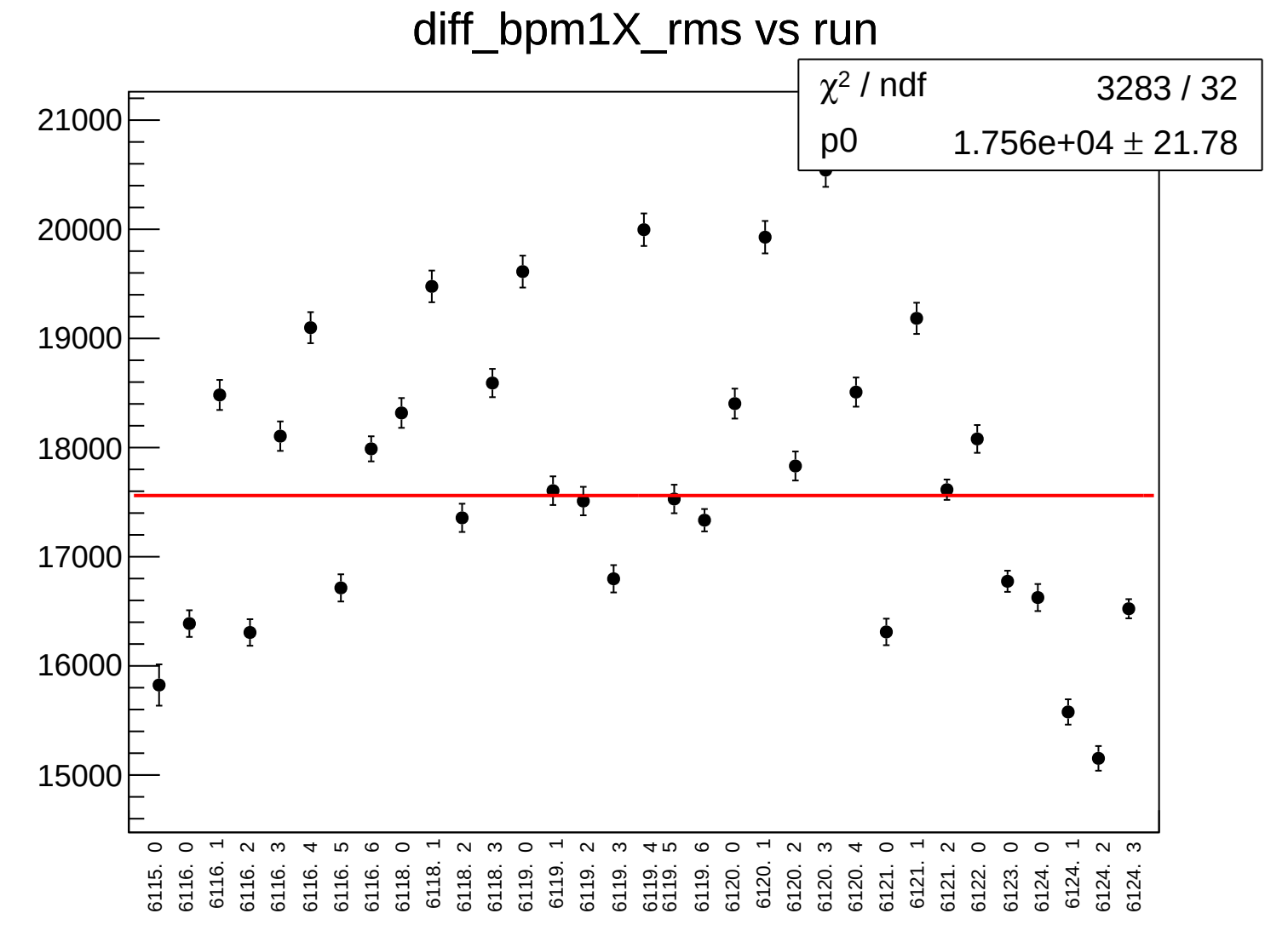

diff_bpm4ecY_mean vs run
χ² / ndf 39.7 / 32
p0 −5.59 ± 13.92
400
300
200
100
0
−100
−200
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 34.41
Std Dev 22.51
3
2
1
0
−1

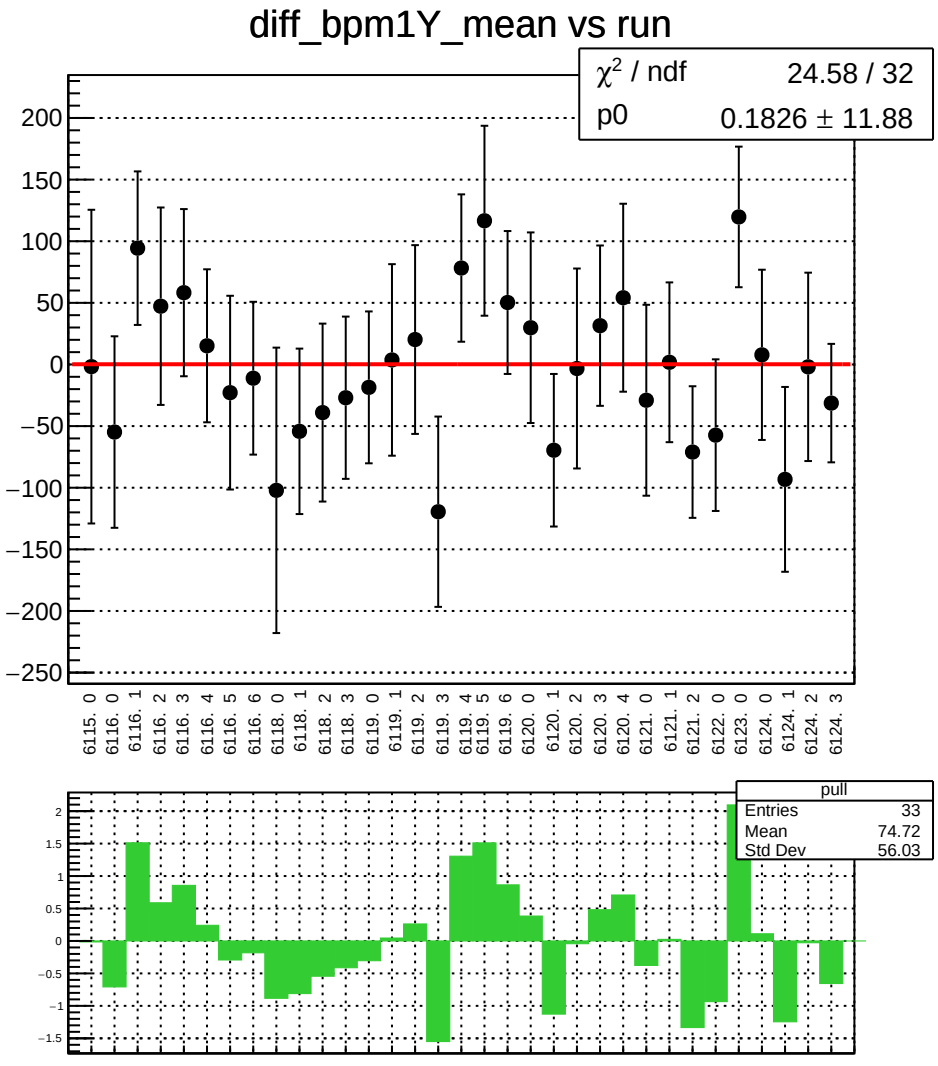

pull1D
Entries 33
Mean −0.02159
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

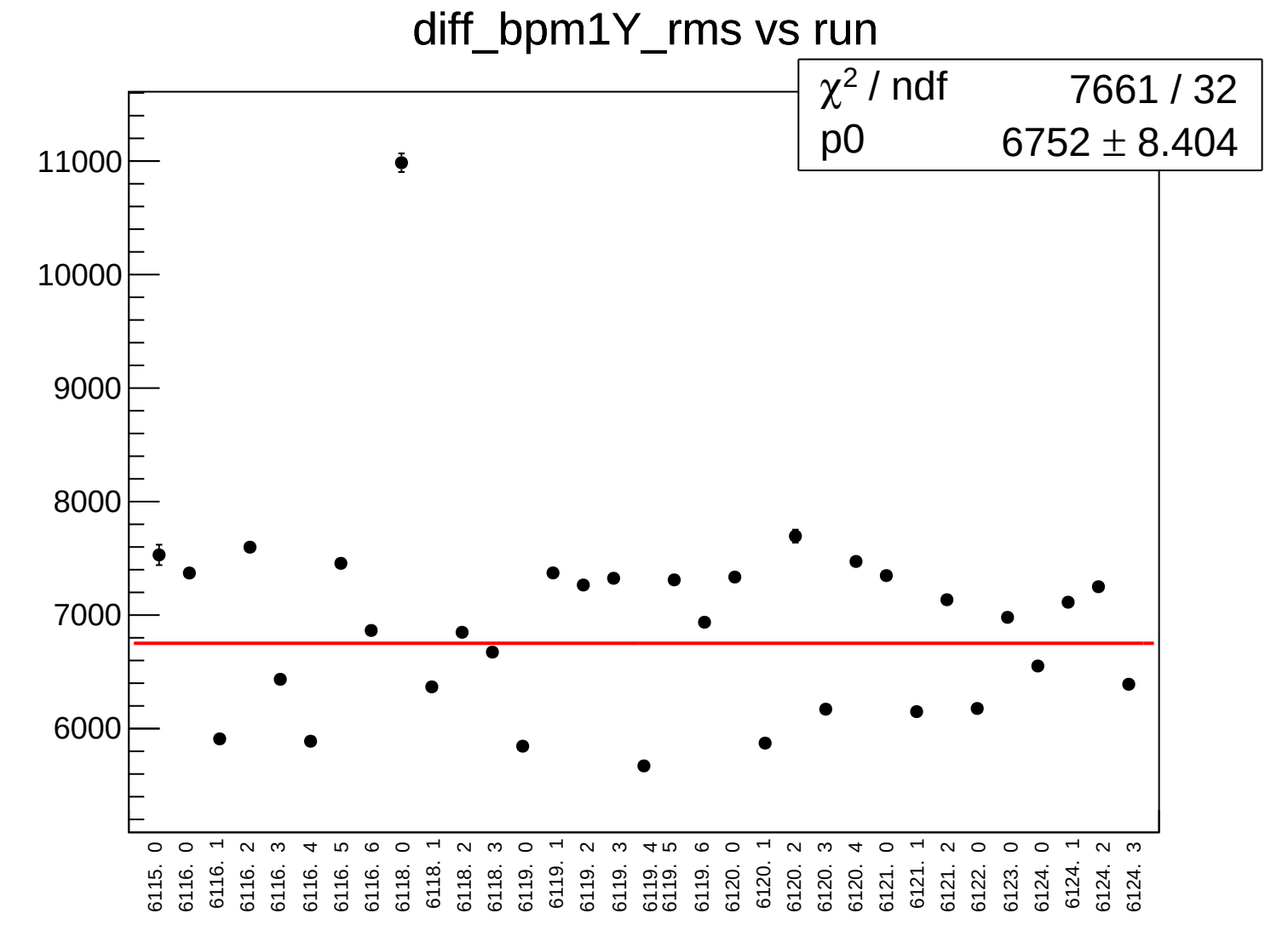

diff_bpm4ecY_rms vs run
χ² / ndf 1329 / 32
p0 7949 ± 9.845
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

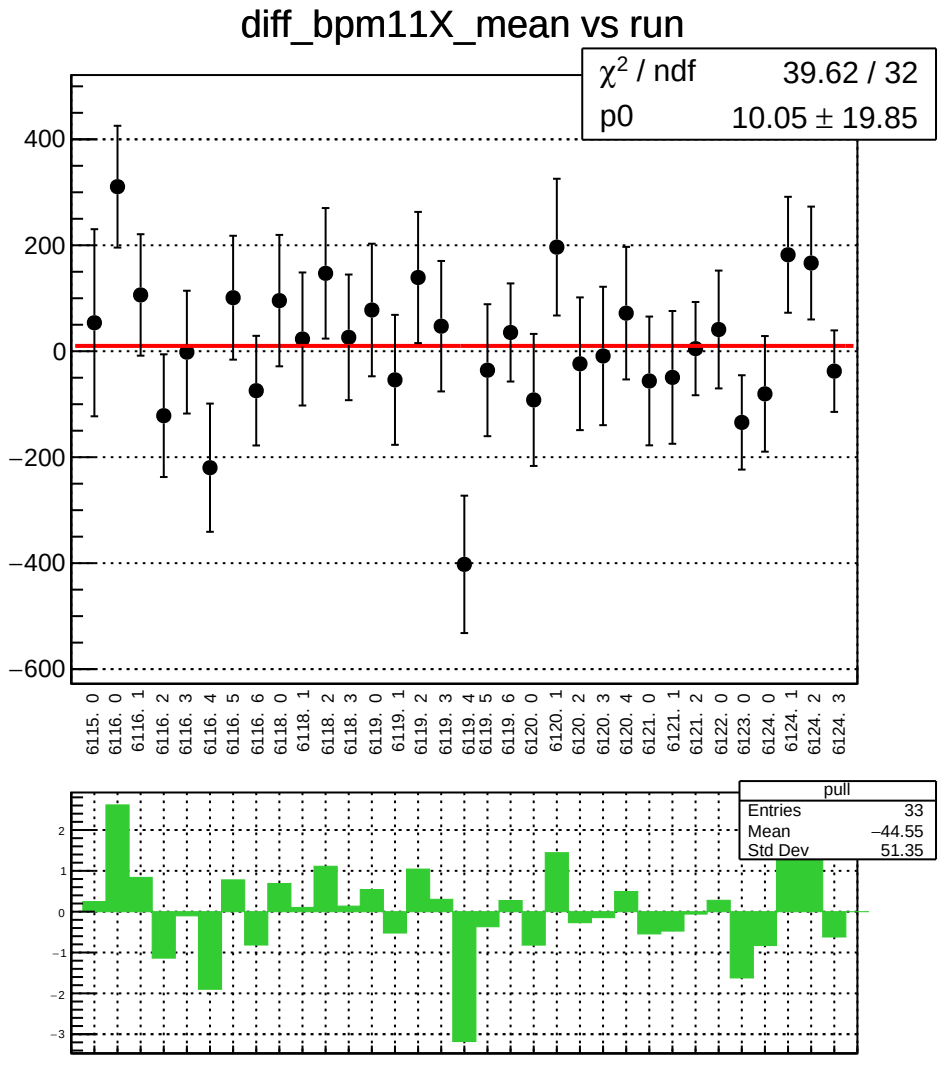

diff_bpm1X_mean vs run
χ² / ndf 27.85 / 32
p0 −40.71 ± 30.81
600
400
200
0
−200
−400
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 373.2
Std Dev 360.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

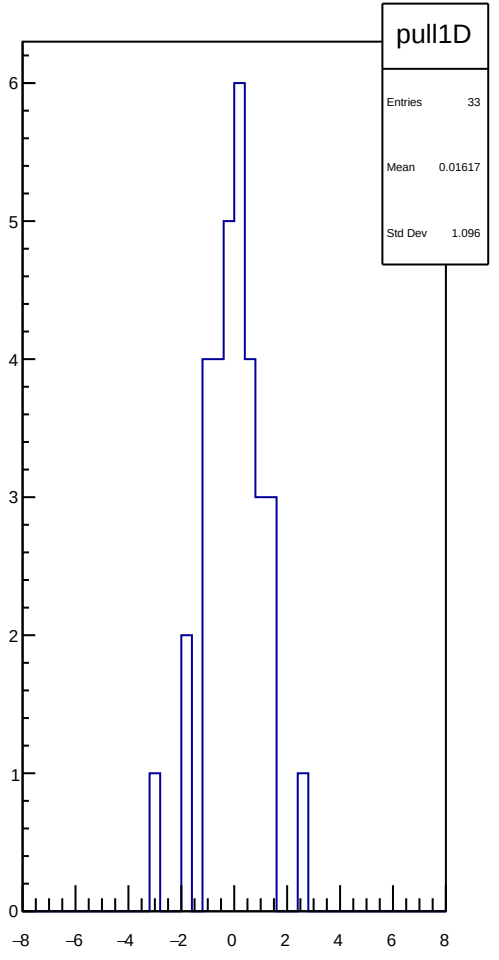

pull1D
Entries 33
Mean 0.006386
Std Dev 0.9186
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

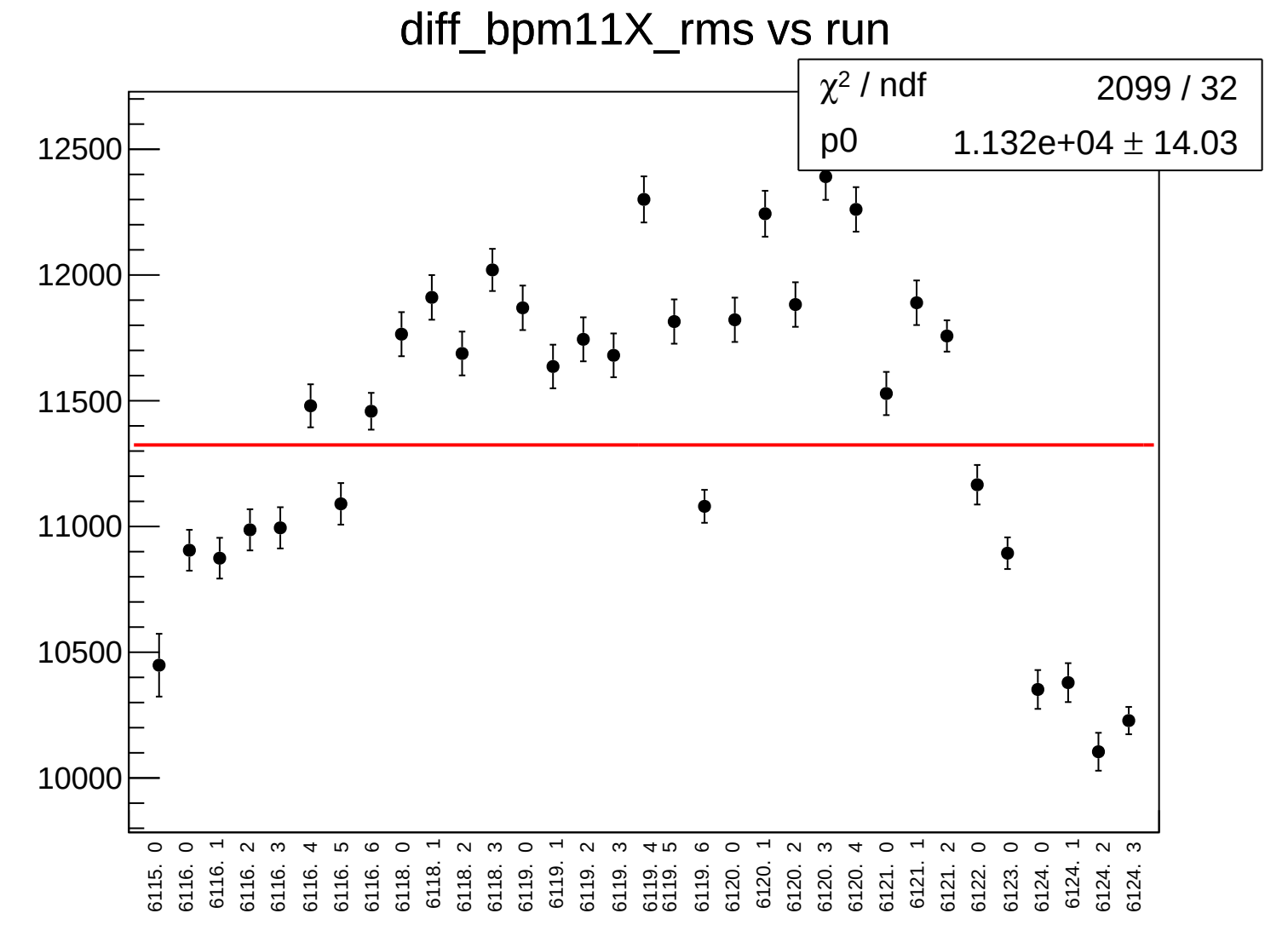

diff_bpm1X_rms vs run
χ² / ndf 3283 / 32
p0 1.756e+04 ± 21.78
21000
20000
19000
18000
17000
16000
15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

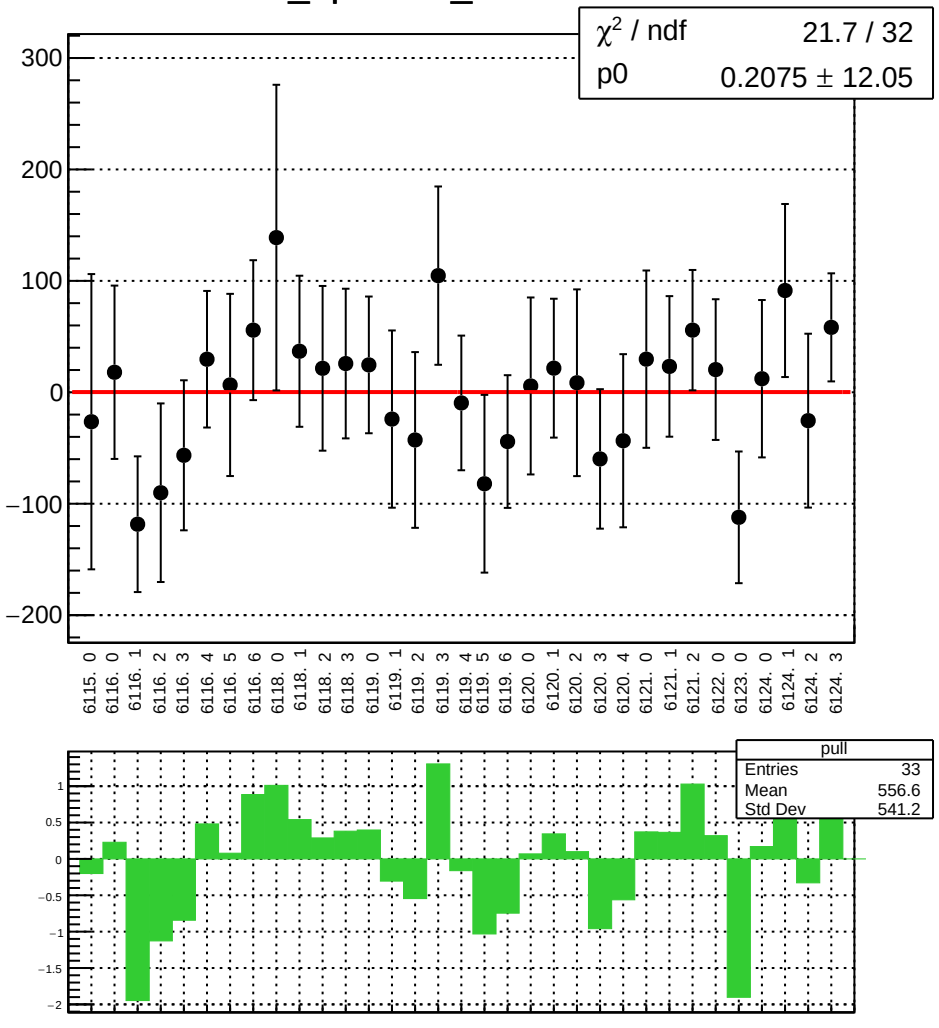

diff_bpm1Y_mean vs run
χ² / ndf 24.58 / 32
p0 0.1826 ± 11.88
200
150
100
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 74.72
Std Dev 56.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01395
Std Dev 0.863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

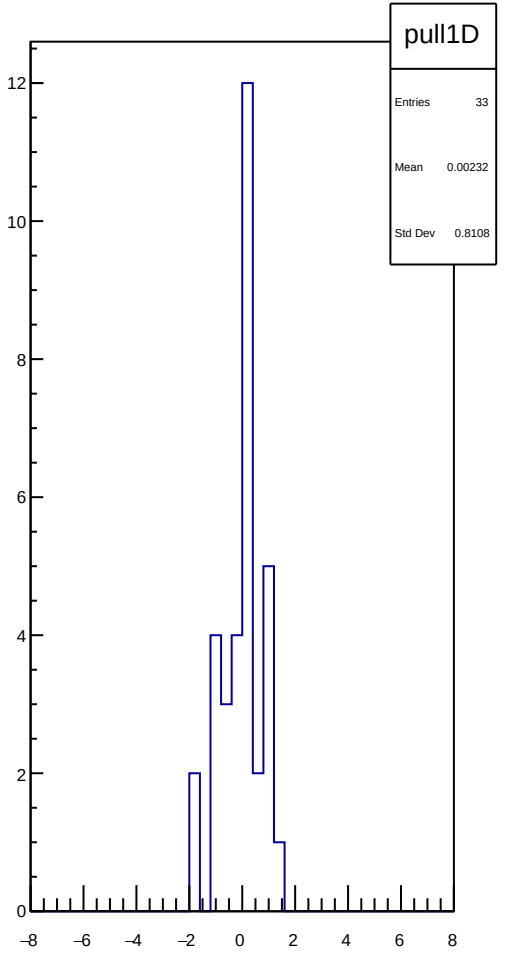

diff_bpm1Y_rms vs run
χ² / ndf 7661 / 32
p0 6752 ± 8.404
11000
10000
9000
8000
7000
6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

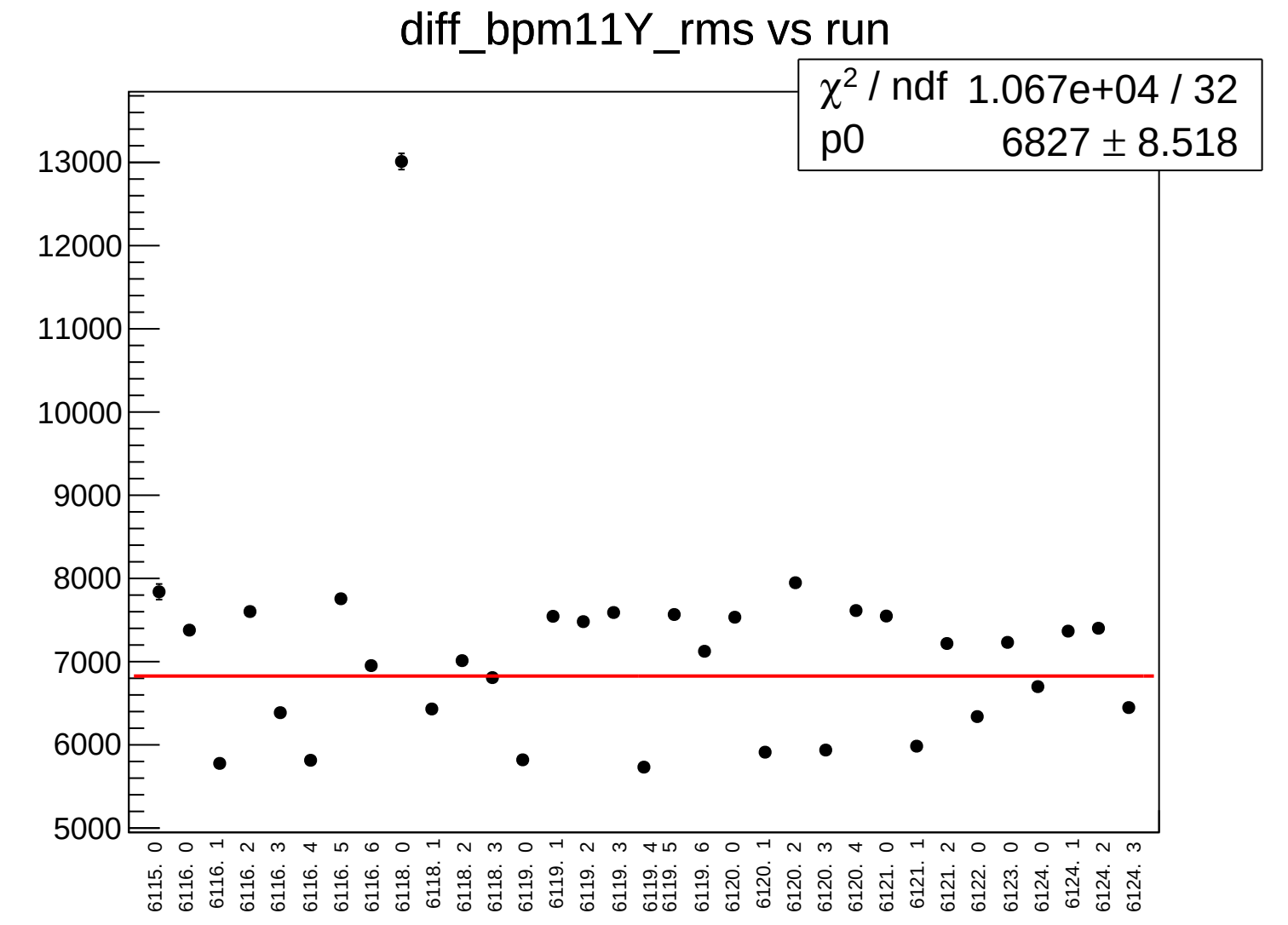

diff_bpm11X_mean vs run
χ² / ndf 39.62 / 32
p0 10.05 ± 19.85
400
200
0
−200
−400
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −44.55
Std Dev 51.35
2
1
0
−1
−2
−3

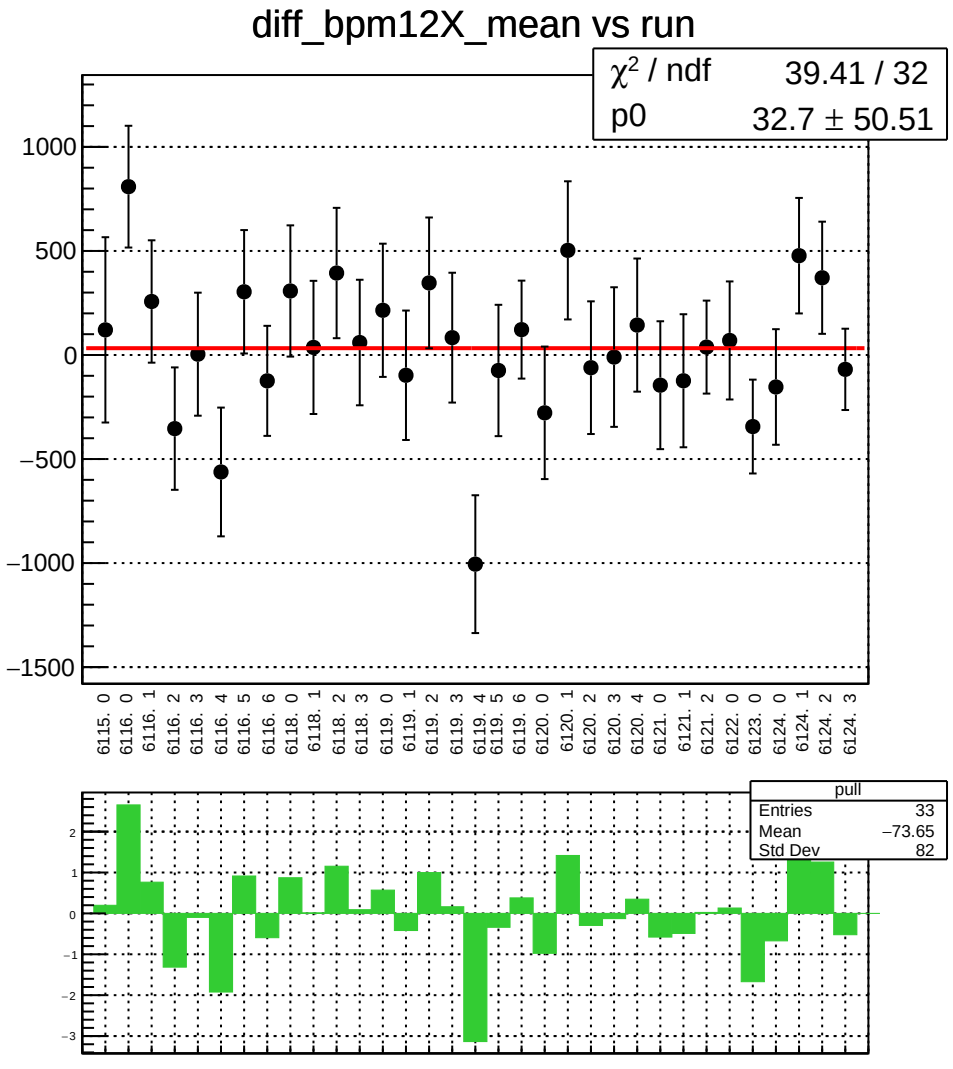

pull1D
Entries 33
Mean 0.01617
Std Dev 1.096
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

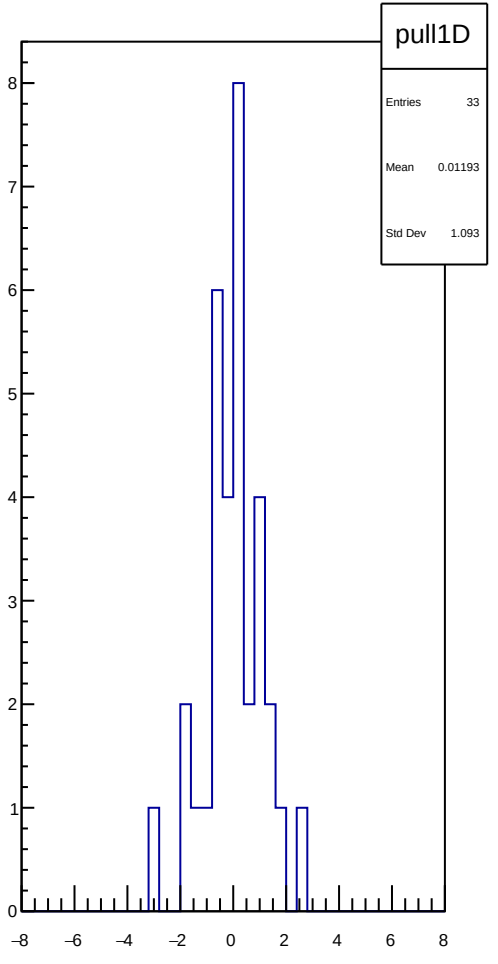

diff_bpm11X_rms vs run
χ² / ndf 2099 / 32
p0 1.132e+04 ± 14.03
12500
12000
11500
11000
10500
10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

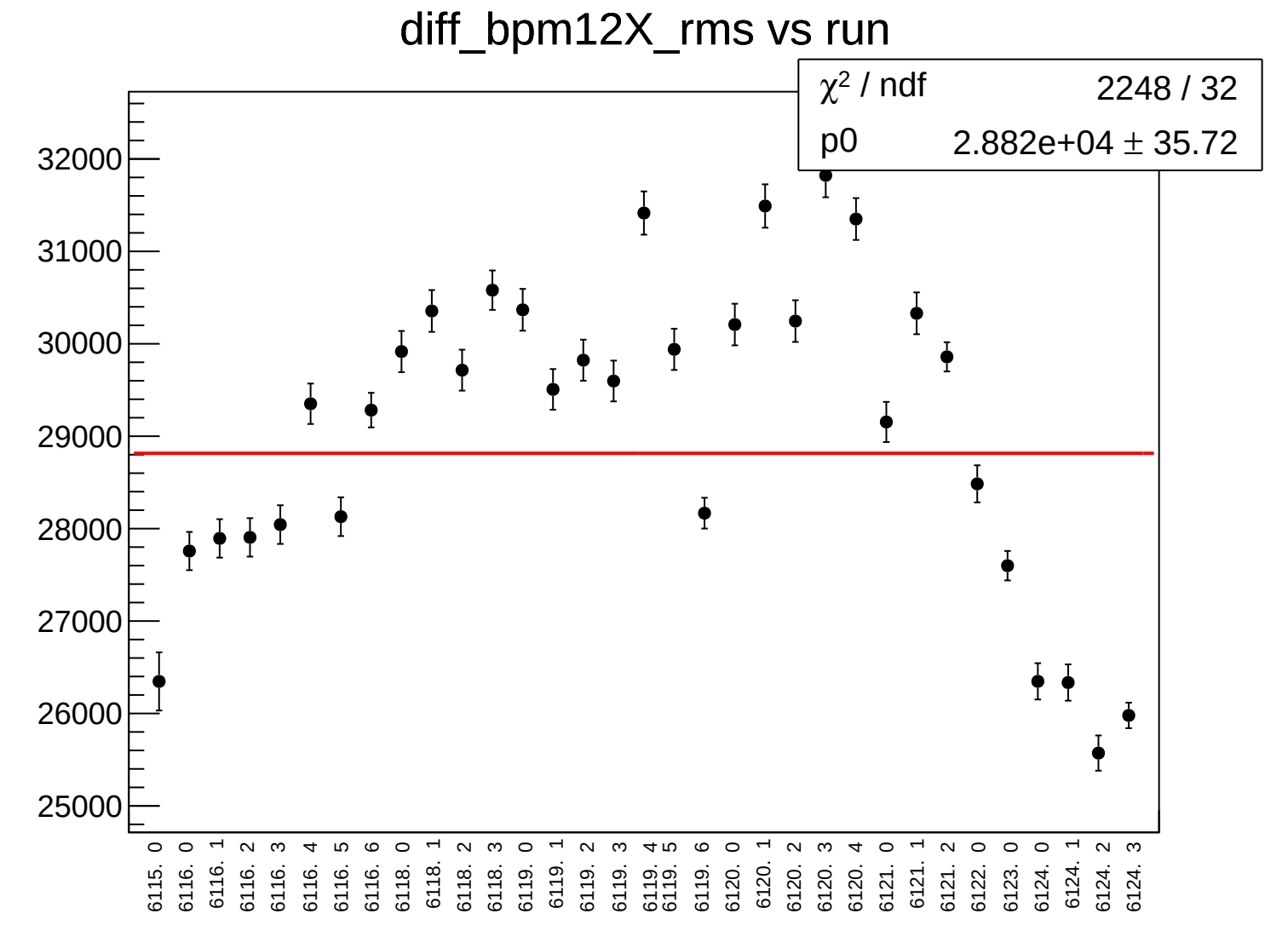

diff_bpm11Y_mean vs run
χ² / ndf 21.7 / 32
p0 0.2075 ± 12.05
300
200
100
0
−100
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 556.6
Std Dev 541.2
1
0.5
0
−0.5
−1
−1.5
−2

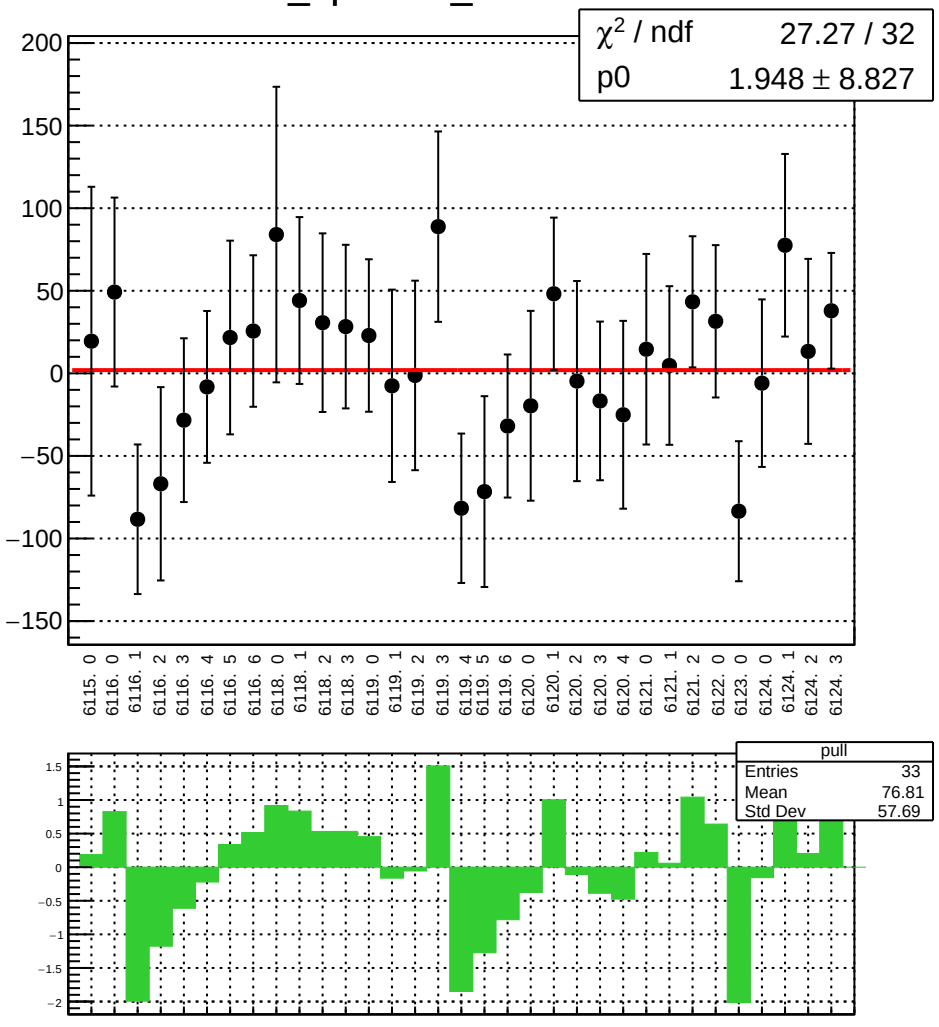

pull1D
Entries 33
Mean 0.00232
Std Dev 0.8108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

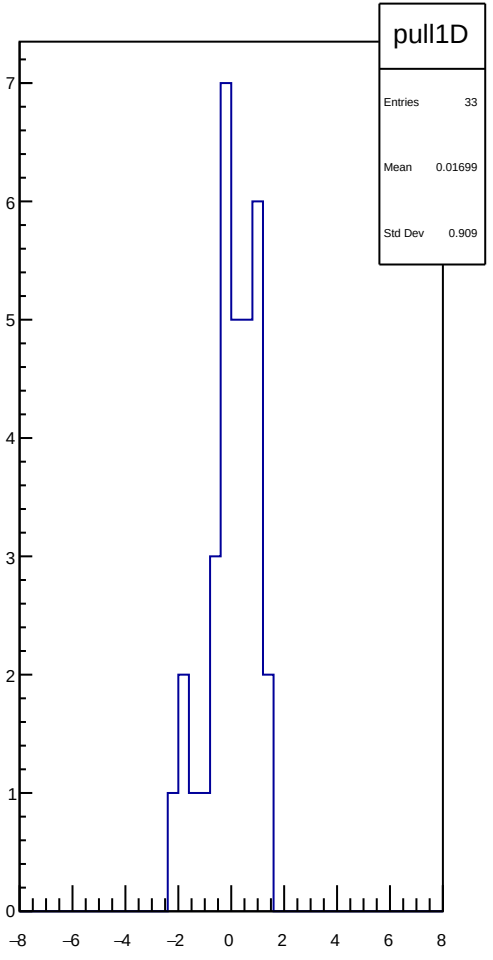

diff_bpm11Y_rms vs run
χ² / ndf 1.067e+04 / 32
p0 6827 ± 8.518
13000
12000
11000
10000
9000
8000
7000
6000
5000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

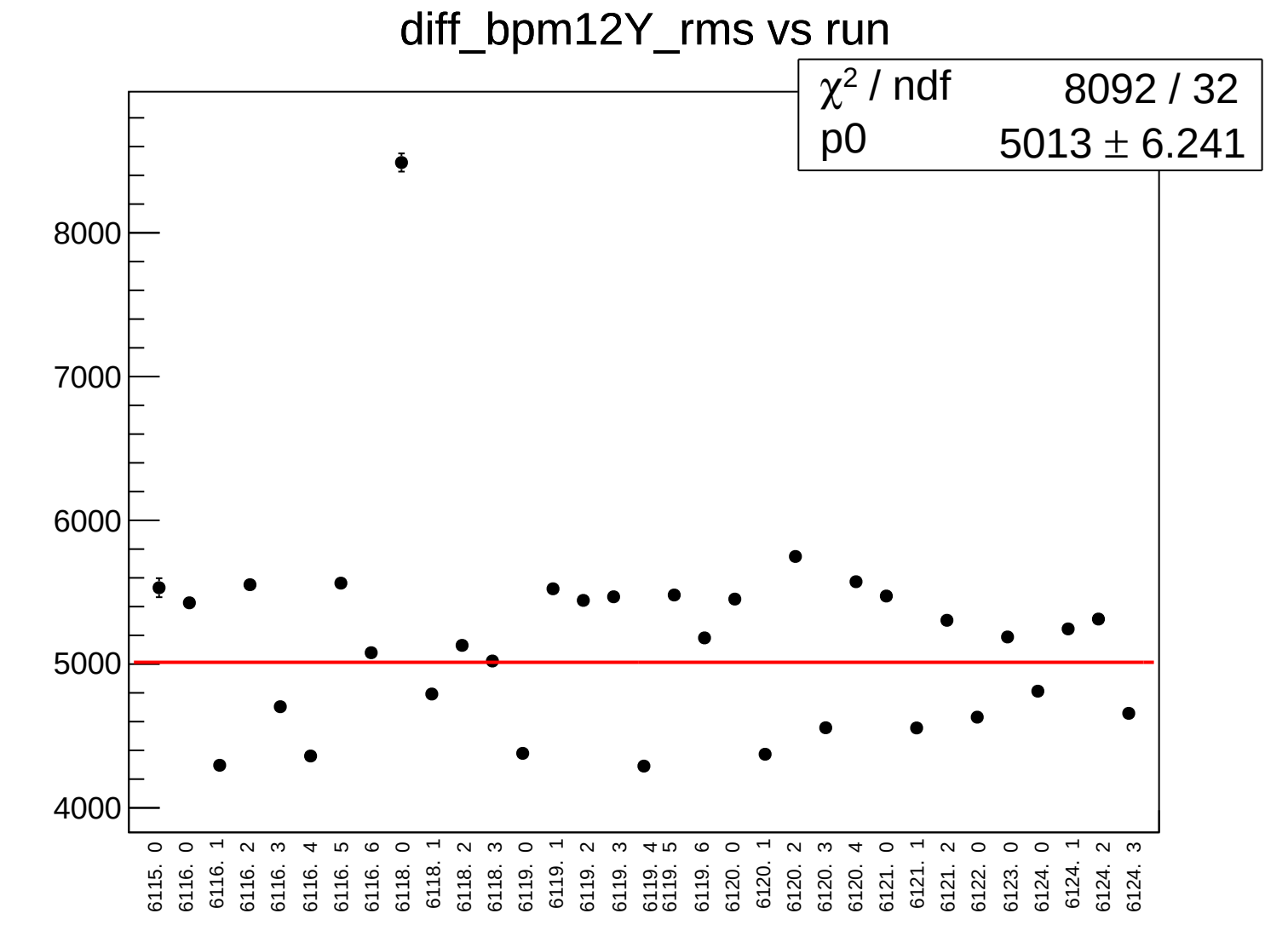

diff_bpm12X_mean vs run
χ² / ndf 39.41 / 32
p0 32.7 ± 50.51
1000
500
0
−500
−1000
−1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −73.65
Std Dev 82
2
1
0
−1
−2
−3

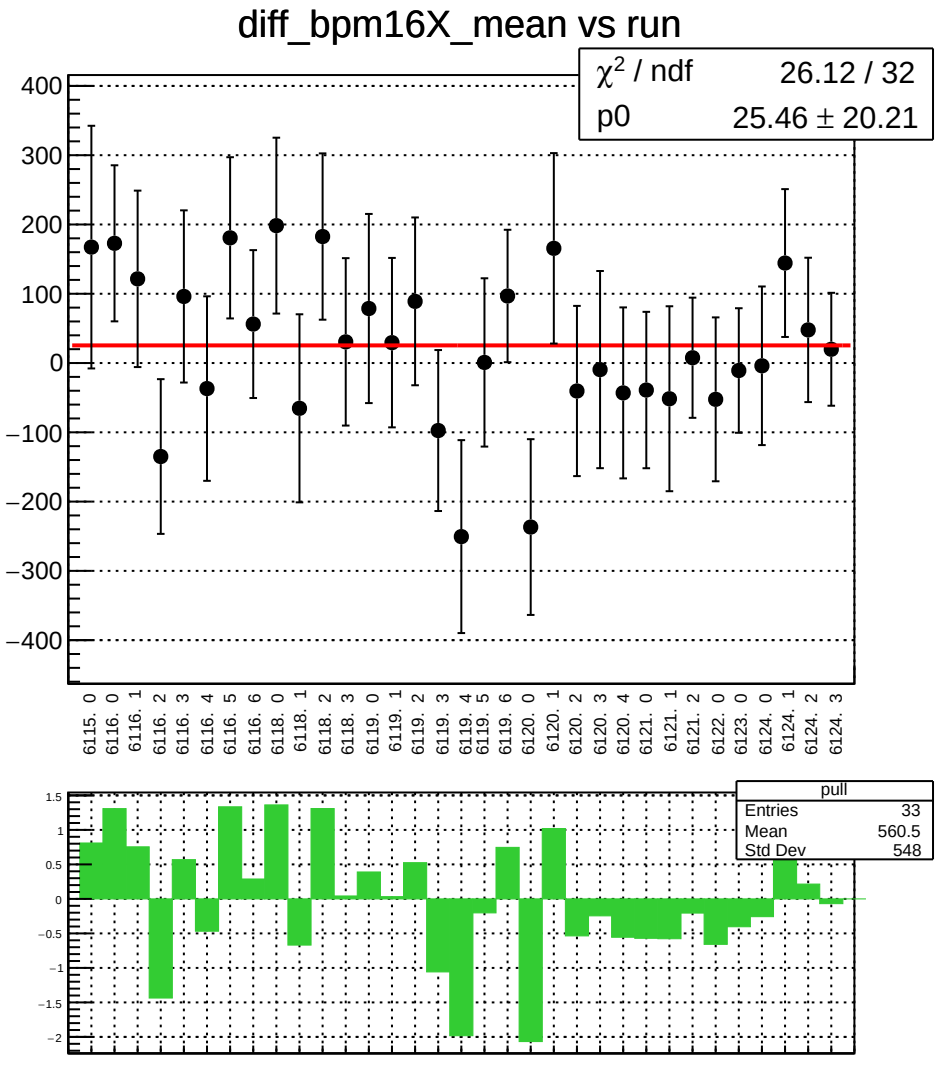

pull1D
Entries 33
Mean 0.01193
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

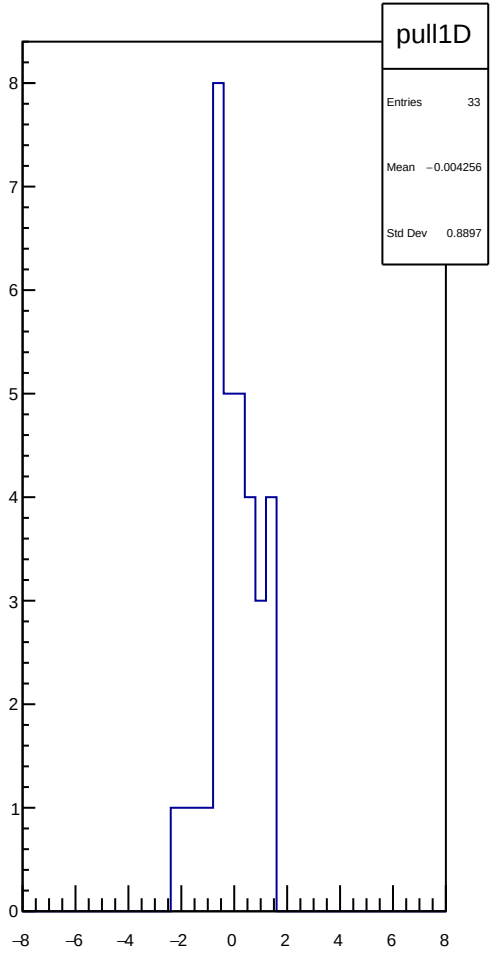

diff_bpm12X_rms vs run
χ² / ndf 2248 / 32
p0 2.882e+04 ± 35.72
32000
31000
30000
29000
28000
27000
26000
25000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

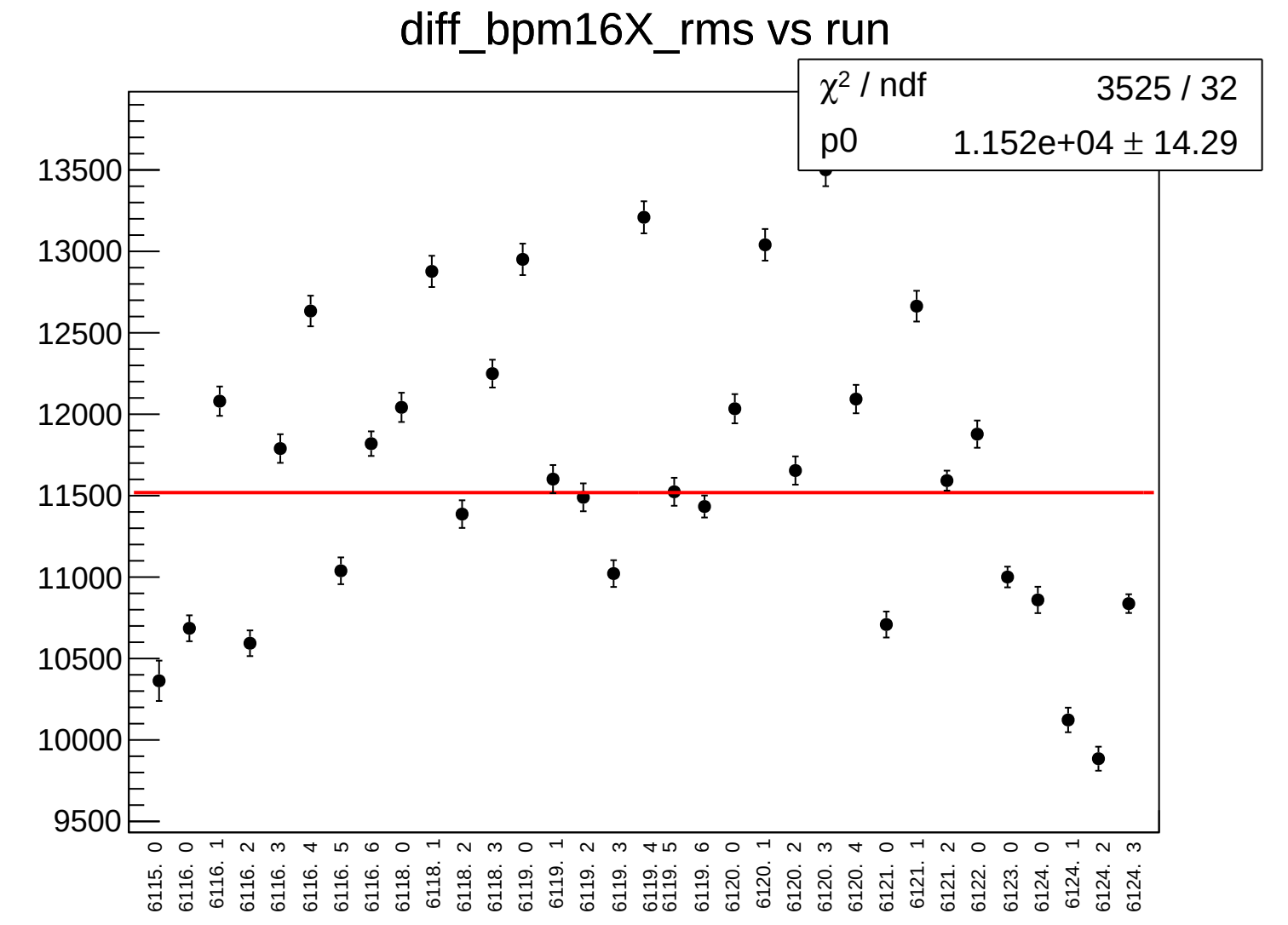

diff_bpm12Y_mean vs run
χ² / ndf 27.27 / 32
p0 1.948 ± 8.827
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 76.81
Std Dev 57.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2

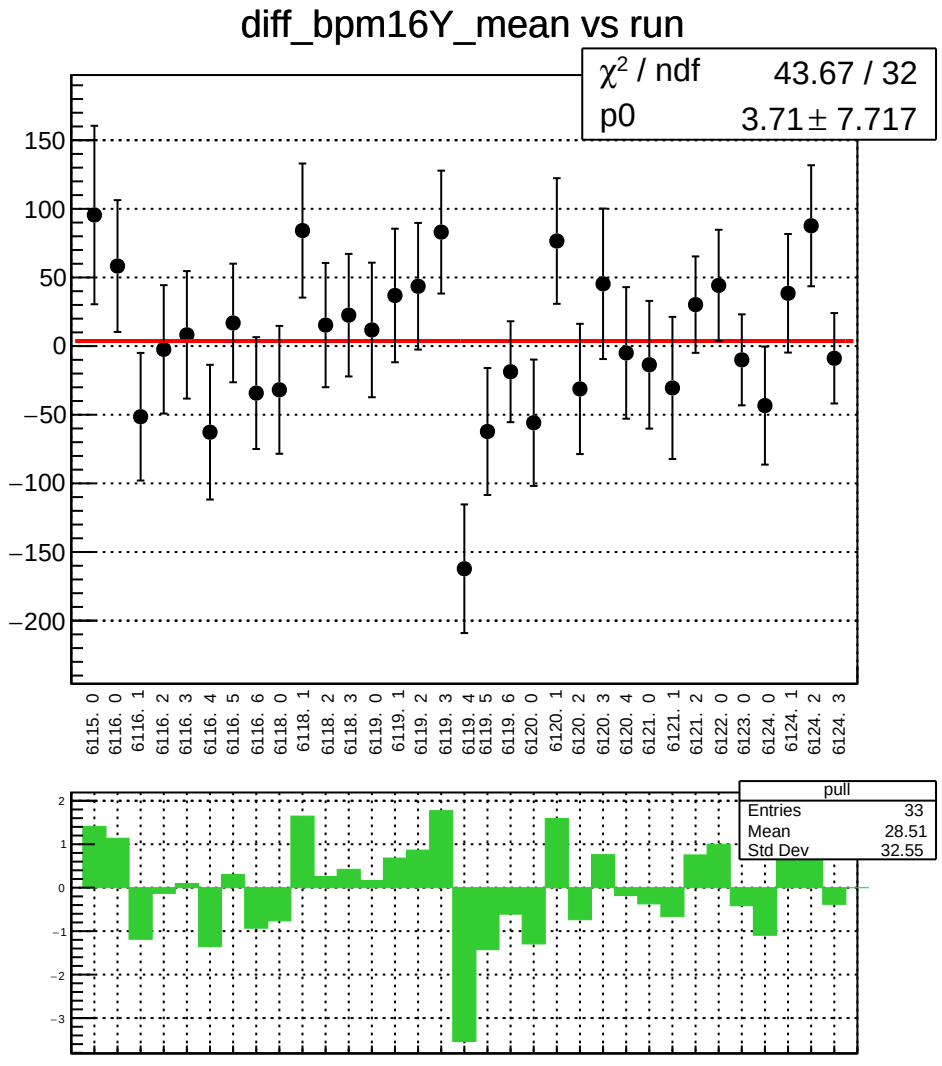

pull1D
Entries 33
Mean 0.01699
Std Dev 0.909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

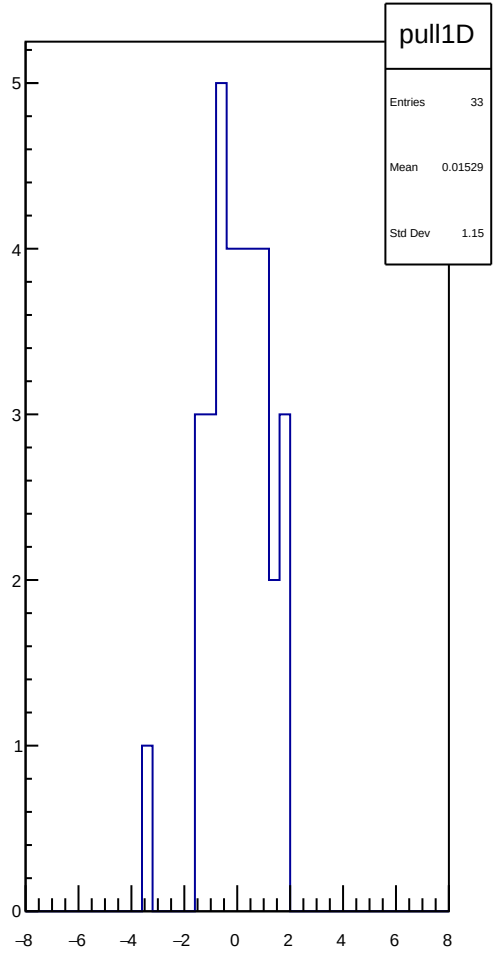

diff_bpm12Y_rms vs run
χ² / ndf 8092 / 32
p0 5013 ± 6.241
8000
7000
6000
5000
4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

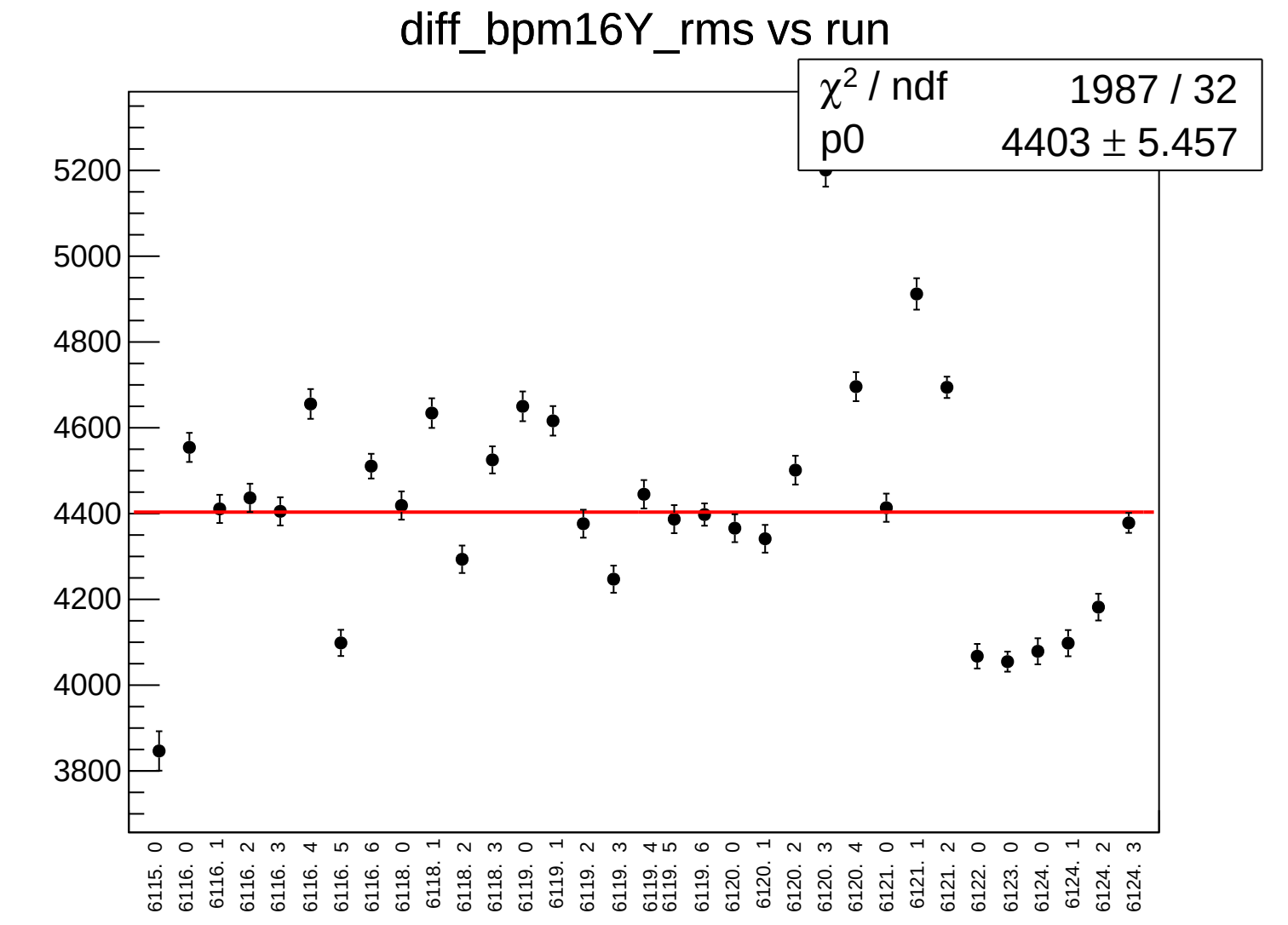

diff_bpm16X_mean vs run
χ² / ndf 26.12 / 32
p0 25.46 ± 20.21
400
300
200
100
0
−100
−200
−300
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 560.5
Std Dev 548
1.5
1
0.5
0
−0.5
−1
−1.5
−2

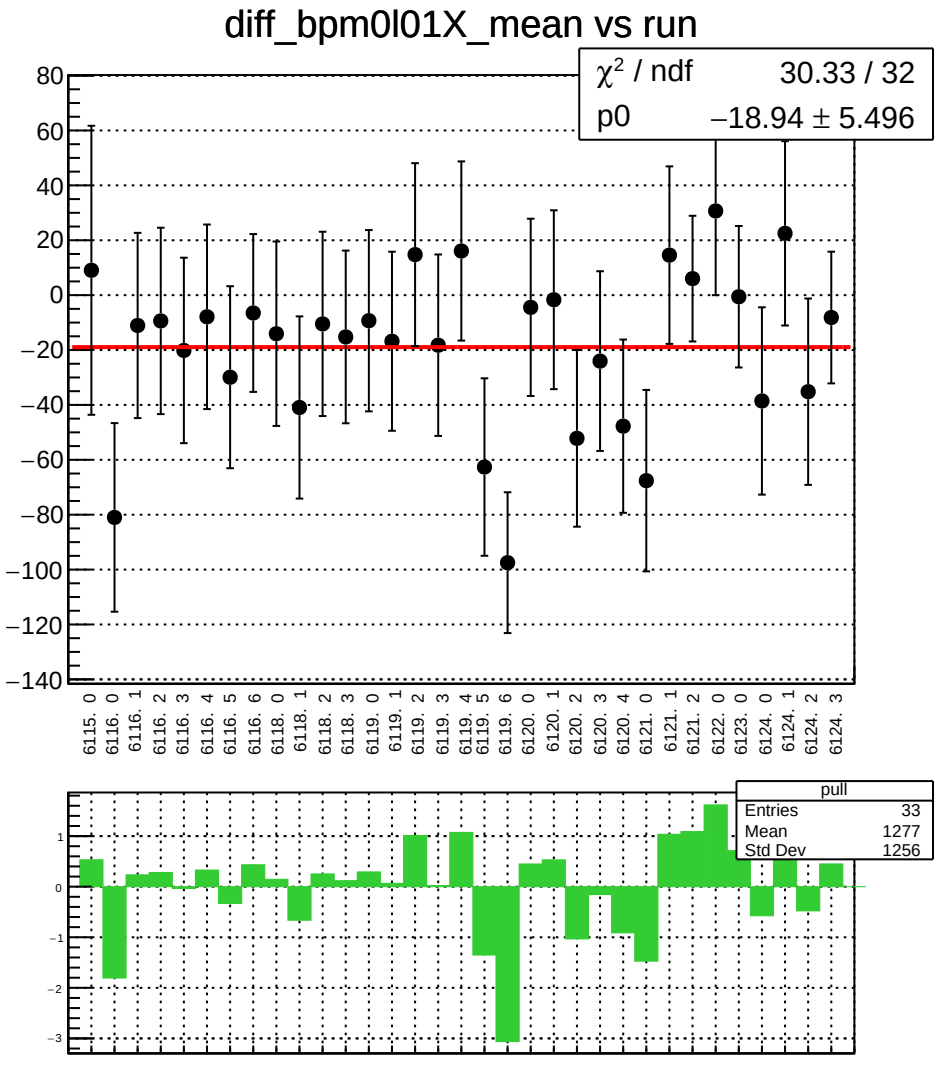

pull1D
Entries 33
Mean −0.004256
Std Dev 0.8897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

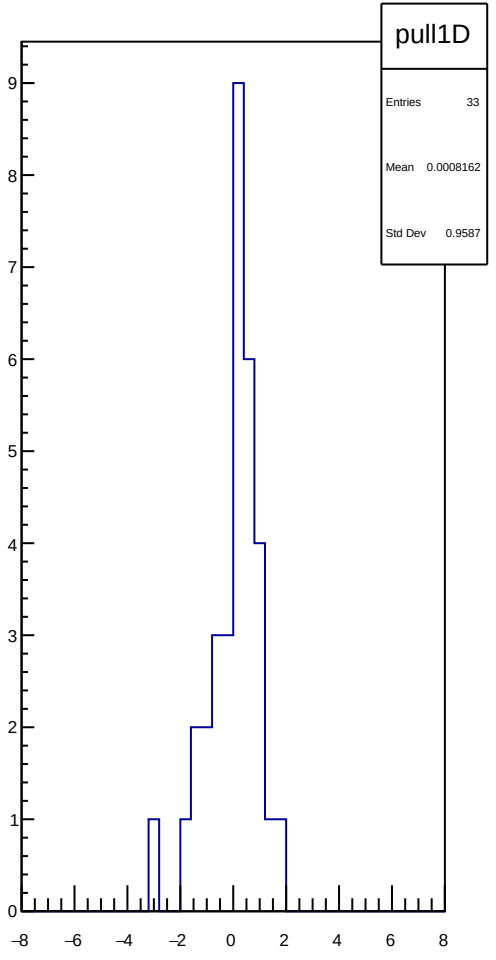

diff_bpm16X_rms vs run
χ² / ndf 3525 / 32
p0 1.152e+04 ± 14.29
13500
13000
12500
12000
11500
11000
10500
10000
9500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

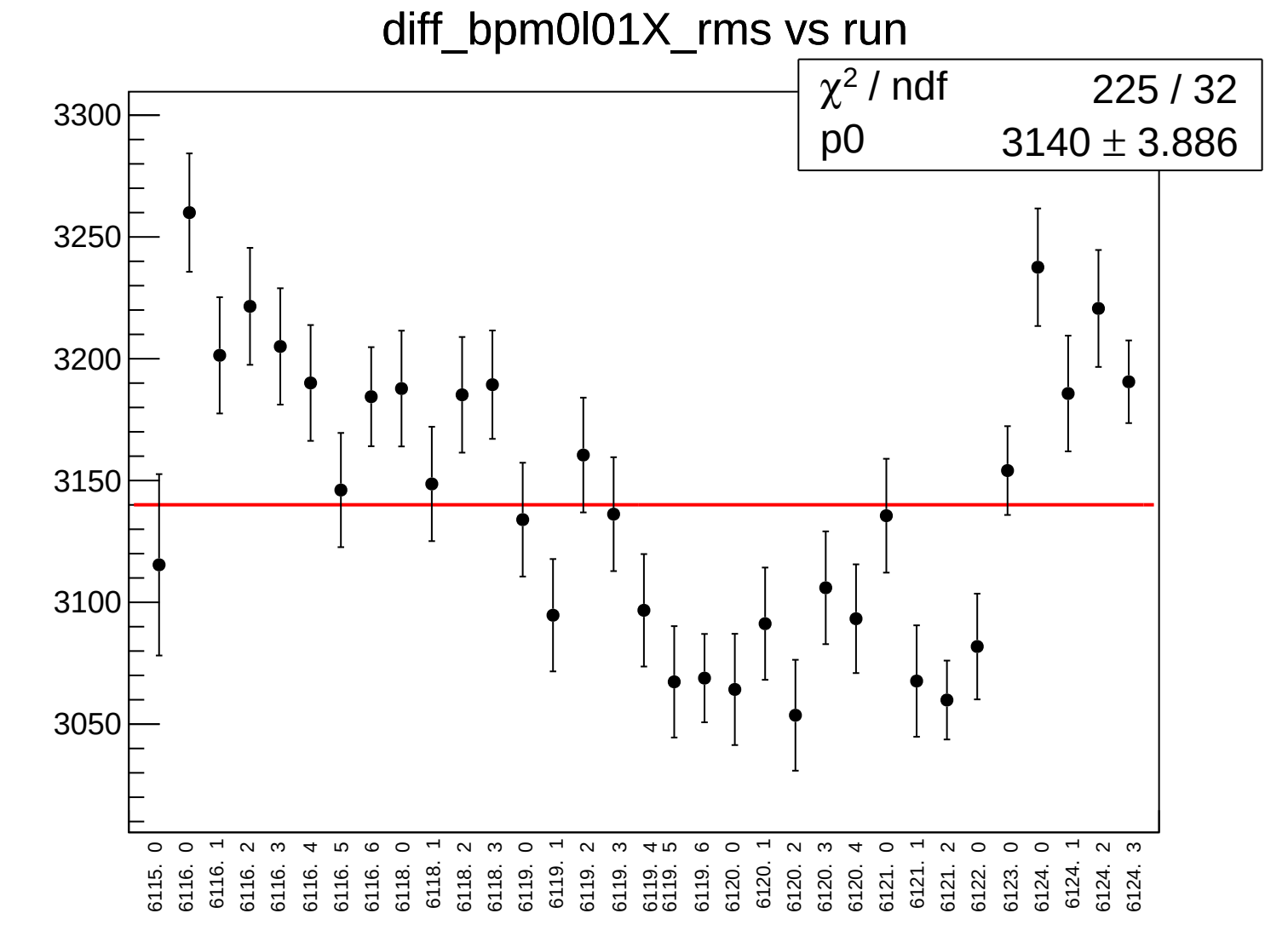

diff_bpm16Y_mean vs run
χ² / ndf 43.67 / 32
p0 3.71 ± 7.717
150
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 28.51
Std Dev 32.55
2
1
0
−1
−2
−3

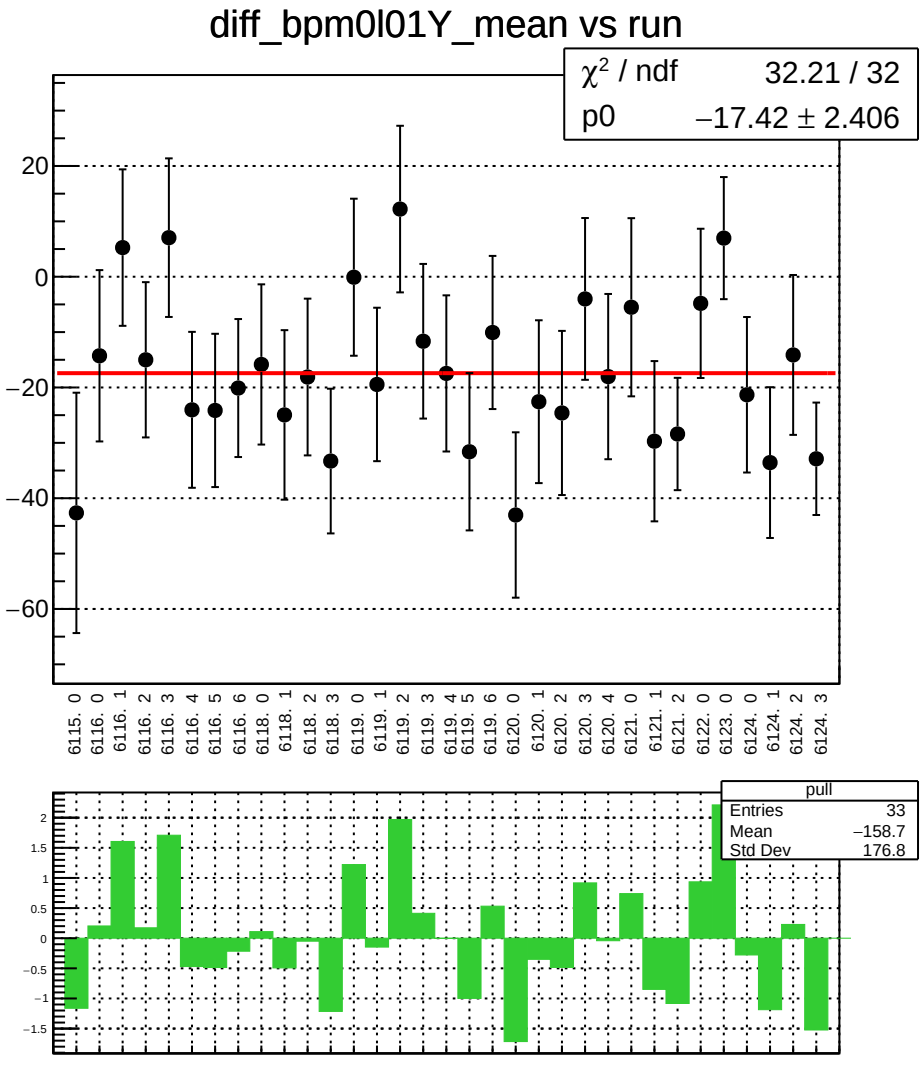

pull1D
Entries 33
Mean 0.01529
Std Dev 1.15
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

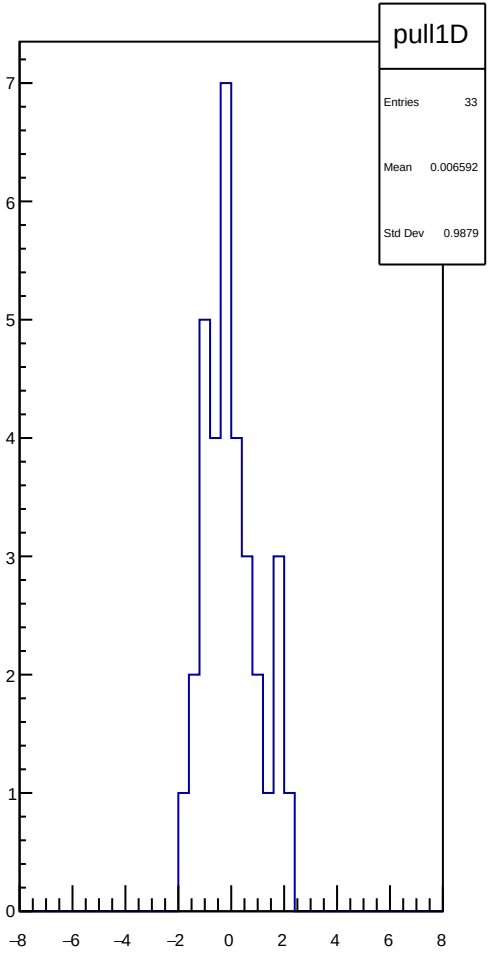

diff_bpm16Y_rms vs run
χ² / ndf 1987 / 32
p0 4403 ± 5.457
5200
5000
4800
4600
4400
4200
4000
3800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

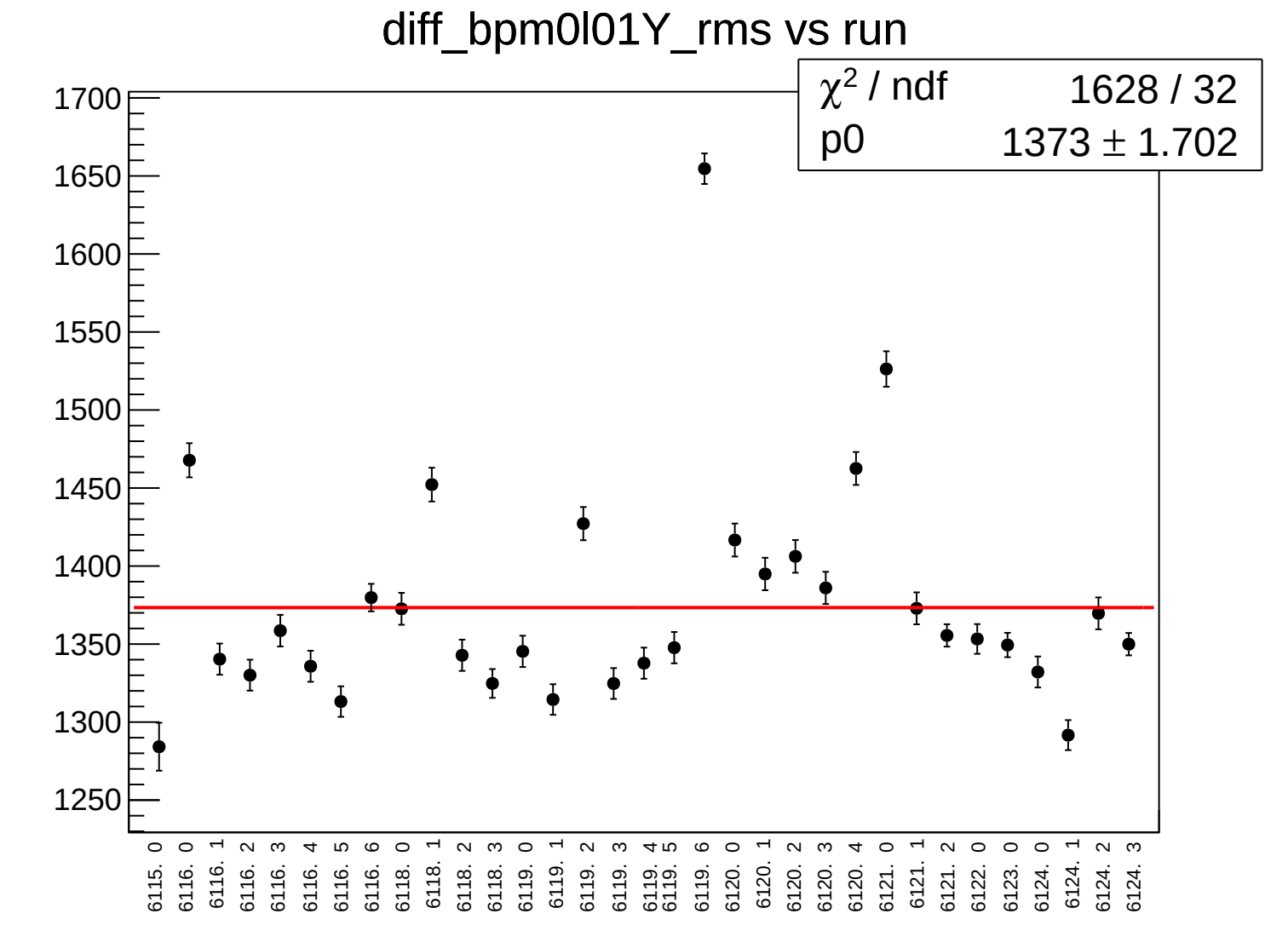

diff_bpm0l01X_mean vs run
χ² / ndf 30.33 / 32
p0 −18.94 ± 5.496
pull
Entries 33
Mean 1277
Std Dev 1256

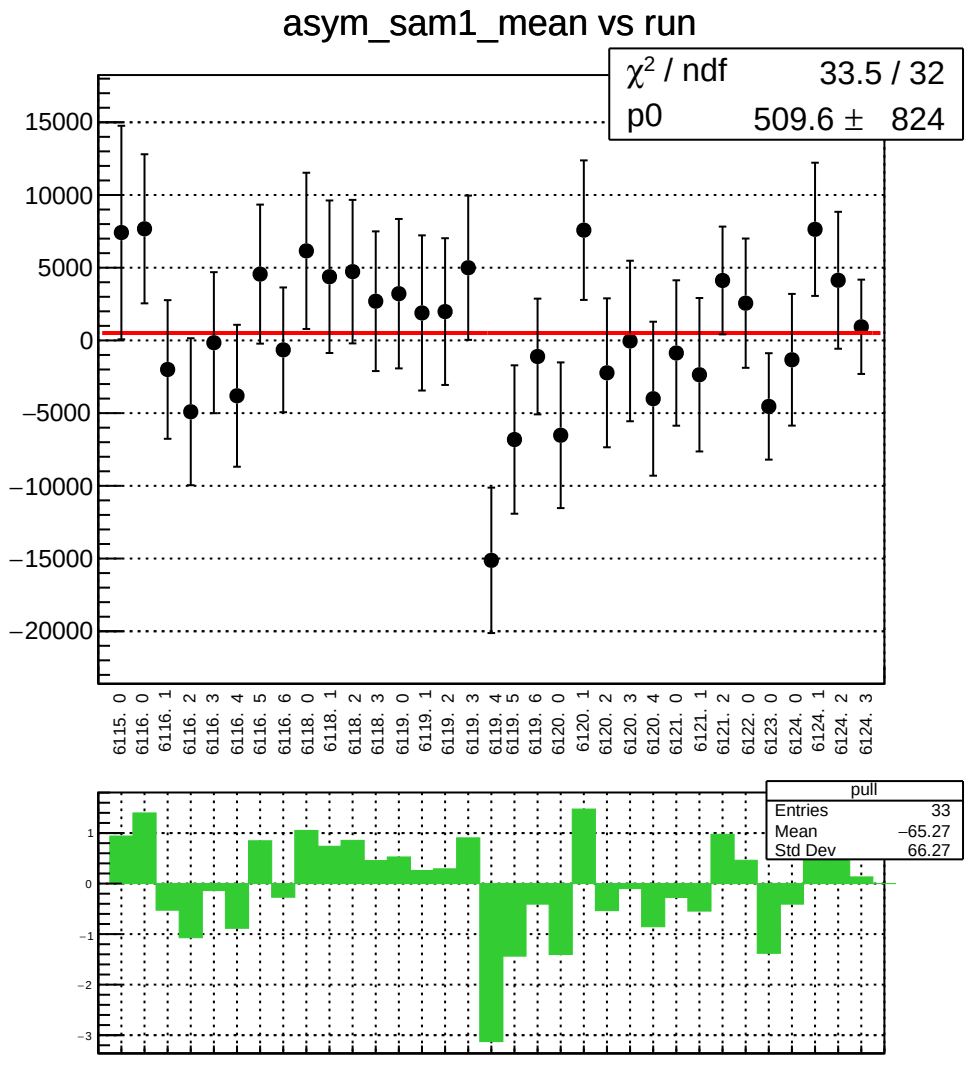

pull1D
Entries 33
Mean 0.0008162
Std Dev 0.9587

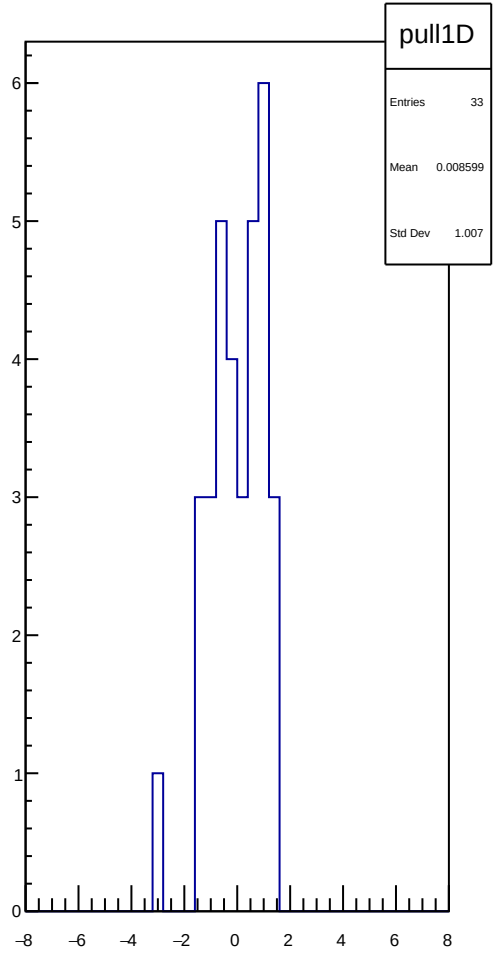

diff_bpm0l01X_rms vs run
χ² / ndf 225 / 32
p0 3140 ± 3.886
3300
3250
3200
3150
3100
3050
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

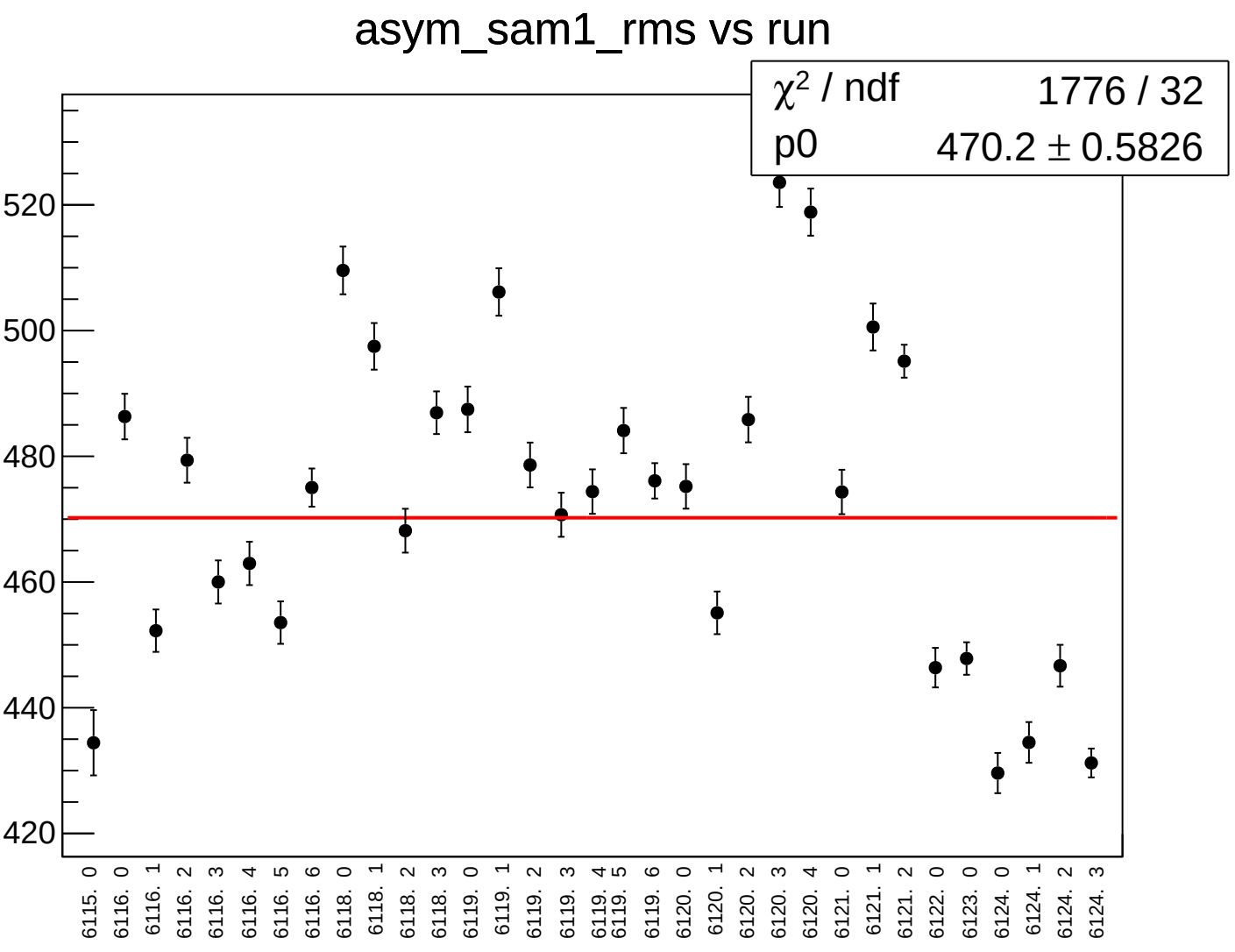

diff_bpm0l01Y_mean vs run
χ² / ndf 32.21 / 32
p0 −17.42 ± 2.406
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −158.7
Std Dev 176.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

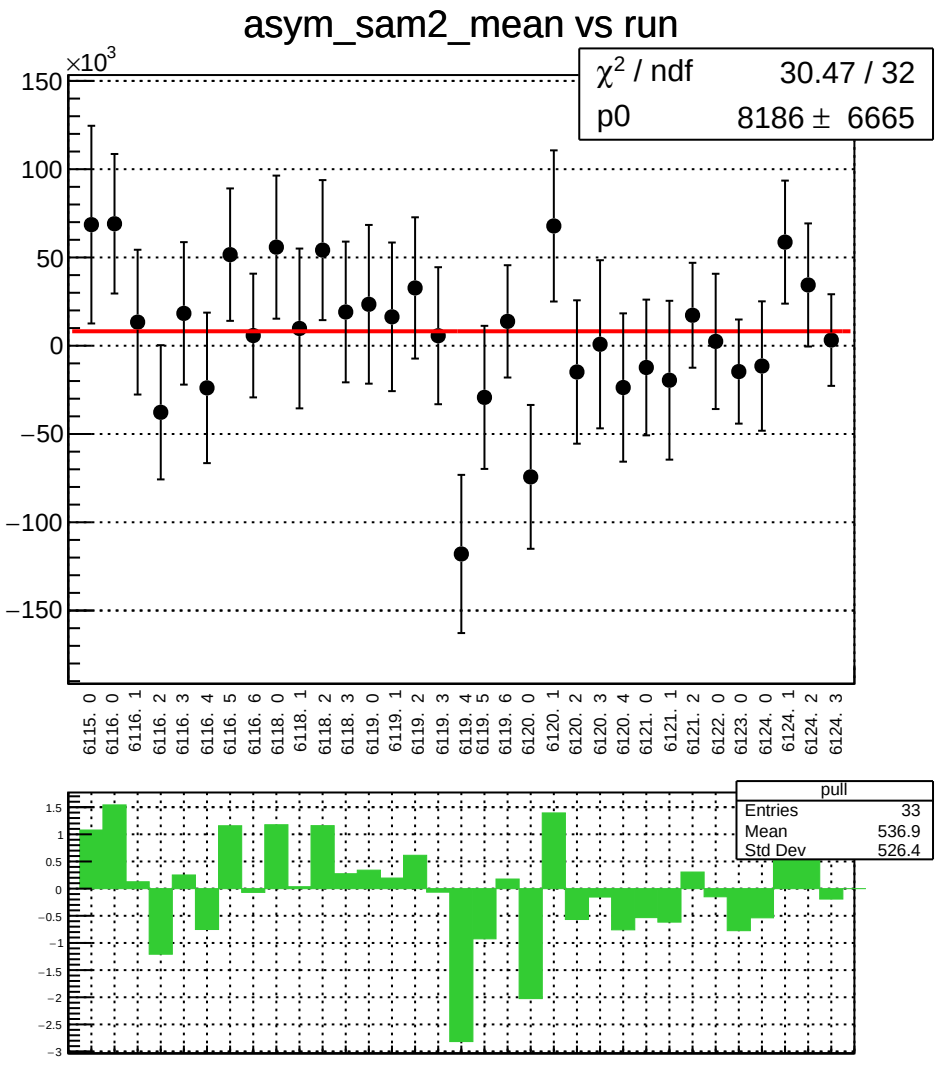

pull1D
Entries 33
Mean 0.006592
Std Dev 0.9879
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

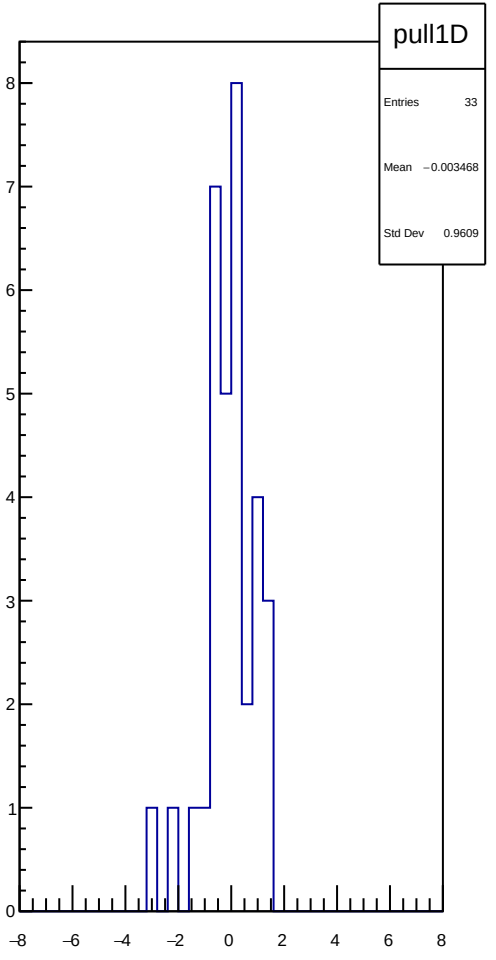

diff_bpm0l01Y_rms vs run
χ² / ndf 1628 / 32
p0 1373 ± 1.702
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

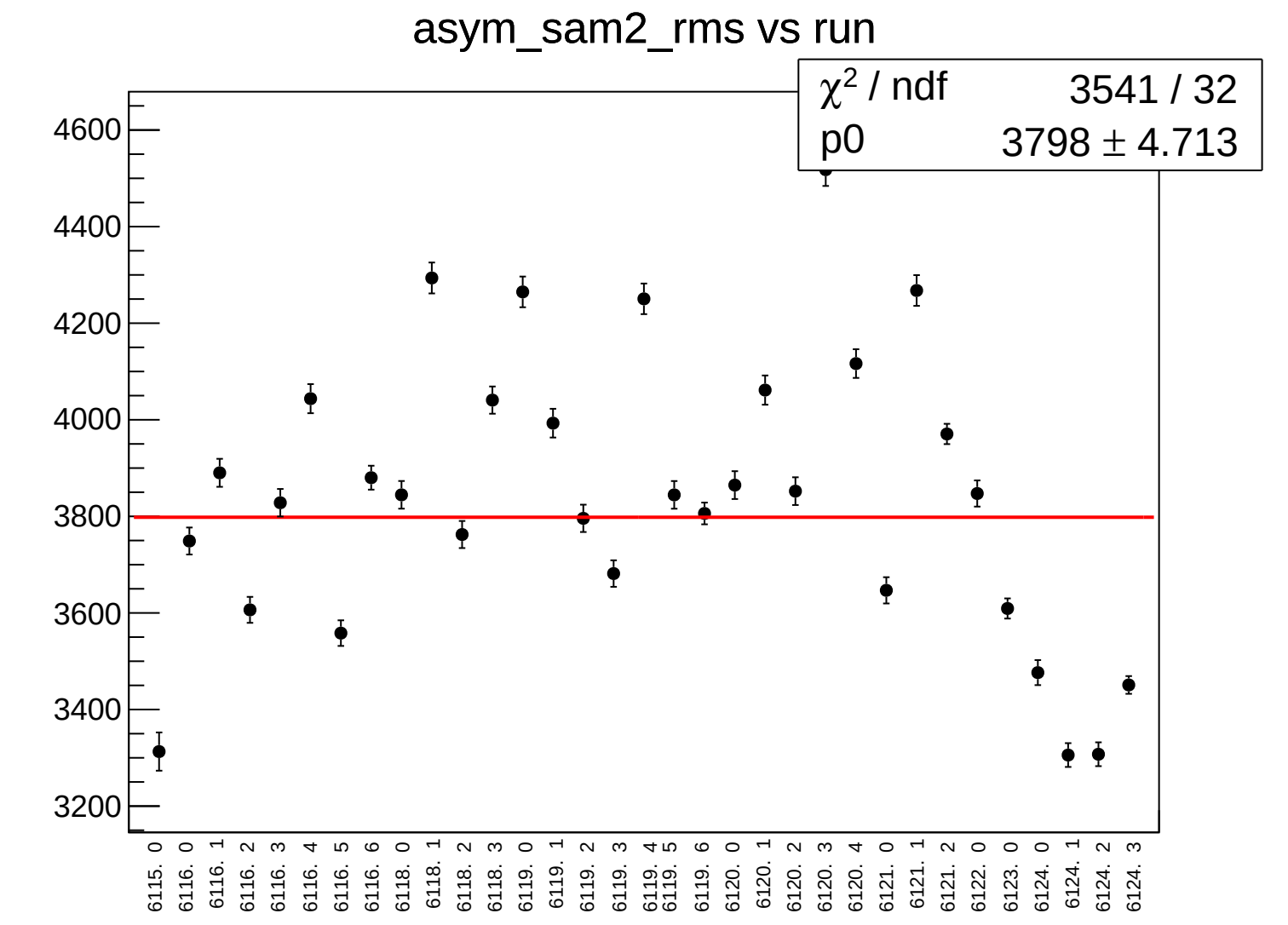

asym_sam1_mean vs run
χ² / ndf 33.5 / 32
p0 509.6 ± 824
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −65.27
Std Dev 66.27
1
0
−1
−2
−3

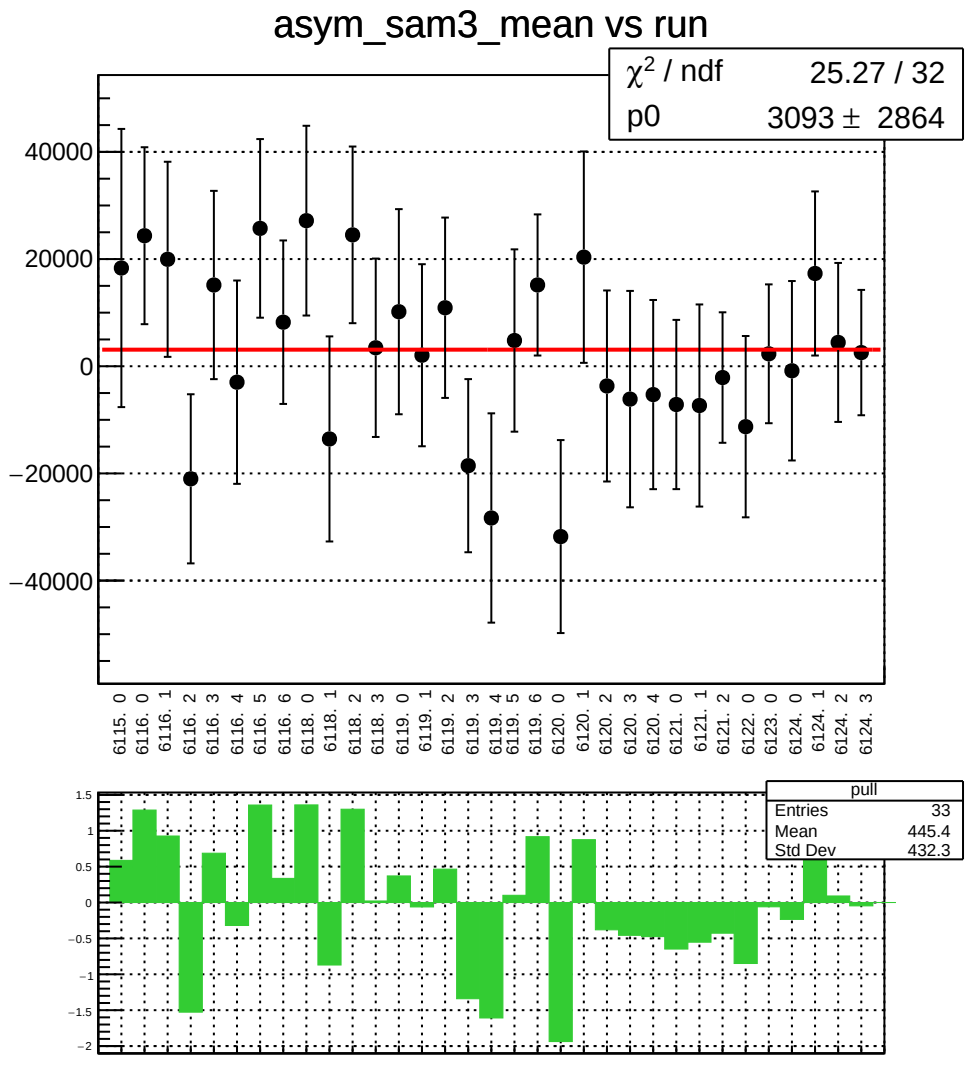

pull1D
Entries 33
Mean 0.008599
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

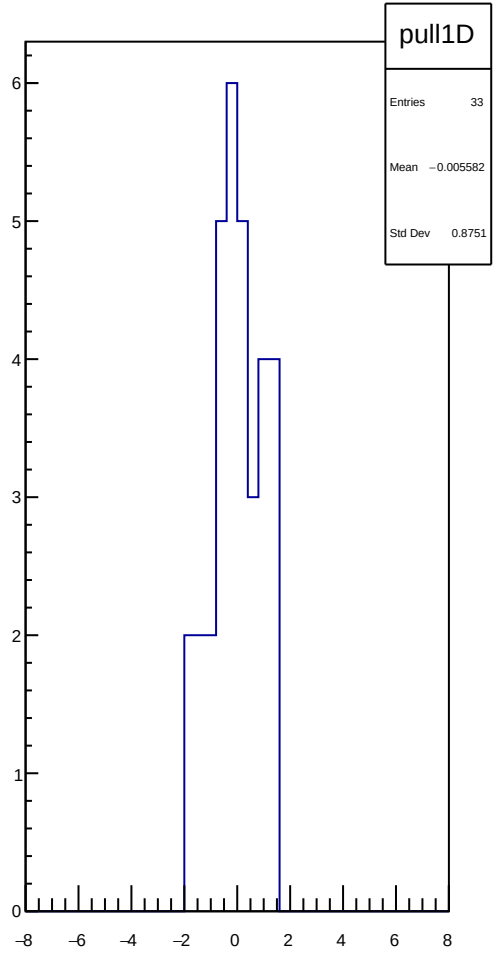

asym_sam1_rms vs run
χ² / ndf 1776 / 32
p0 470.2 ± 0.5826
520
500
480
460
440
420
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

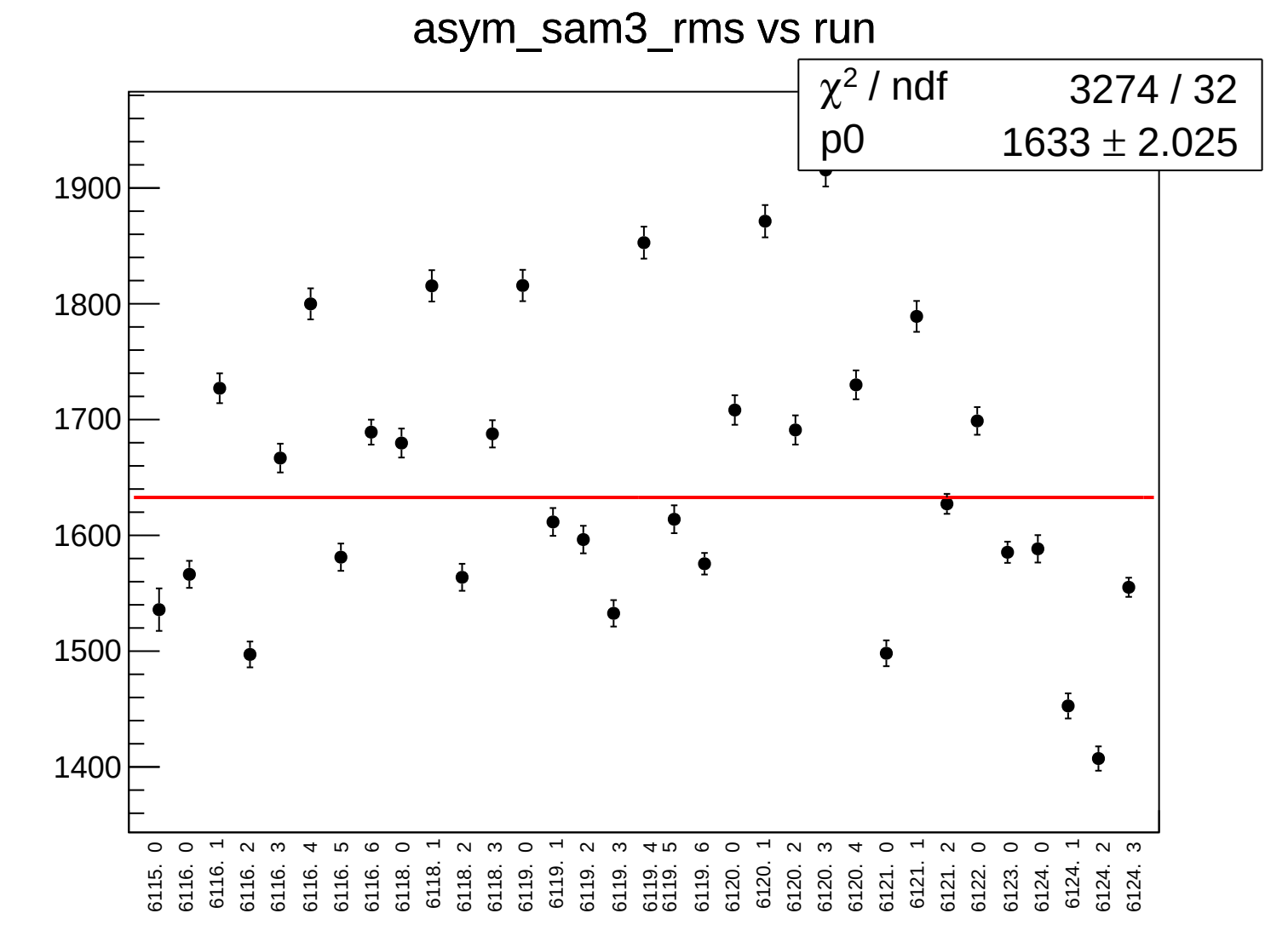

asym_sam2_mean vs run
×10^3
χ^2 / ndf 30.47 / 32
p0 8186 ± 6665
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 536.9
Std Dev 526.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

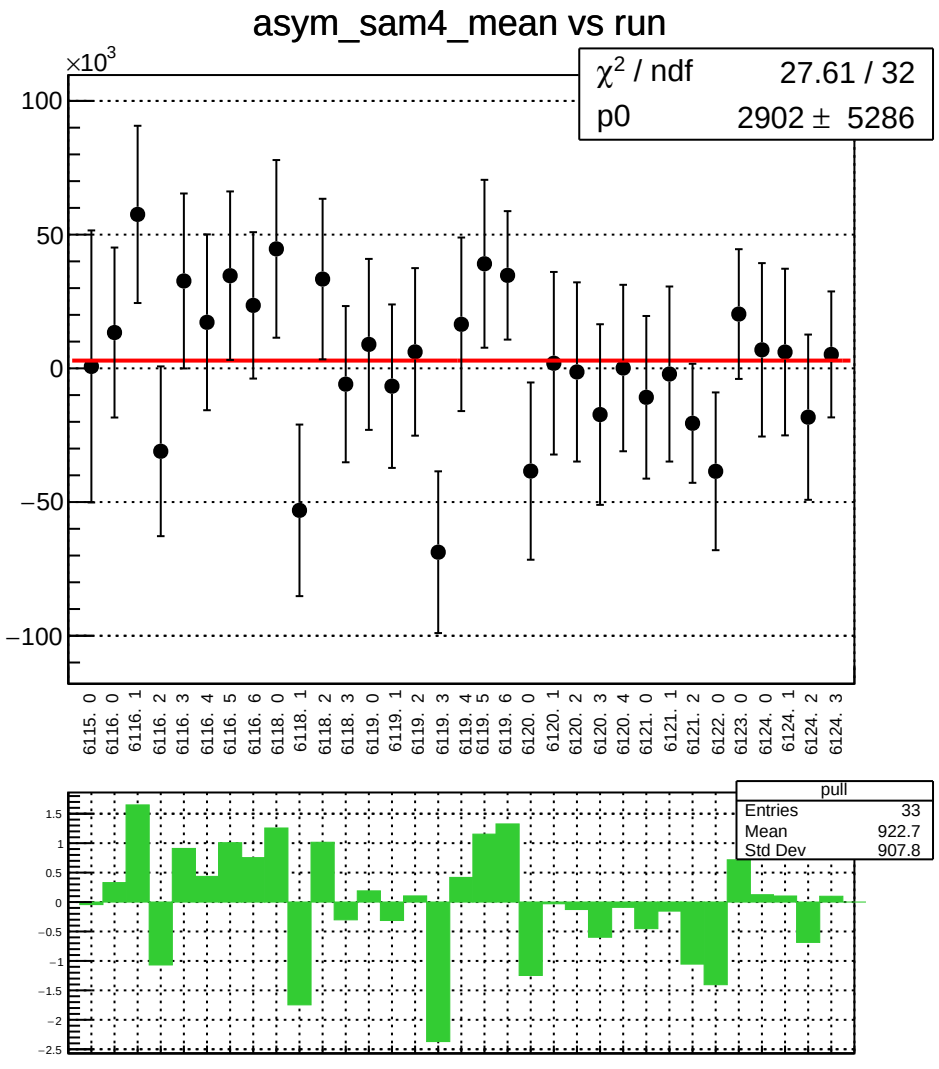

pull1D
Entries 33
Mean −0.003468
Std Dev 0.9609
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

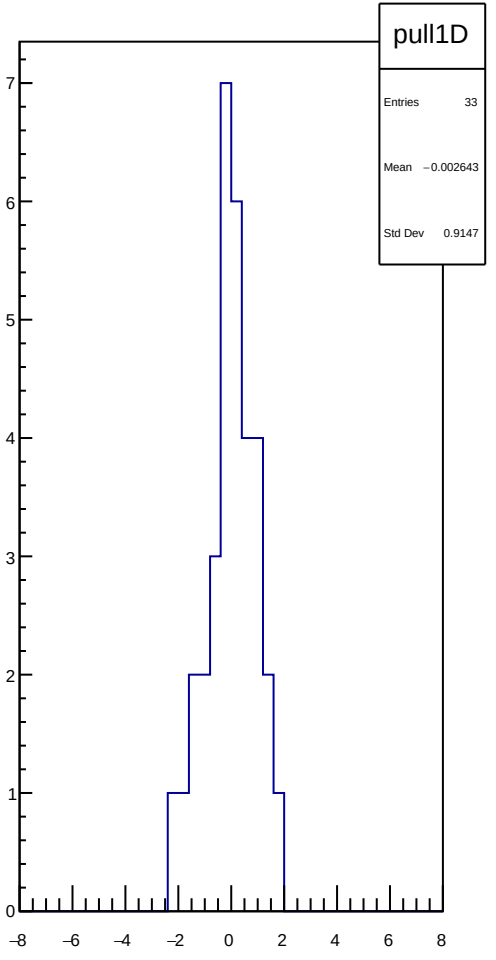

asym_sam2_rms vs run
χ² / ndf 3541 / 32
p0 3798 ± 4.713
4600
4400
4200
4000
3800
3600
3400
3200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

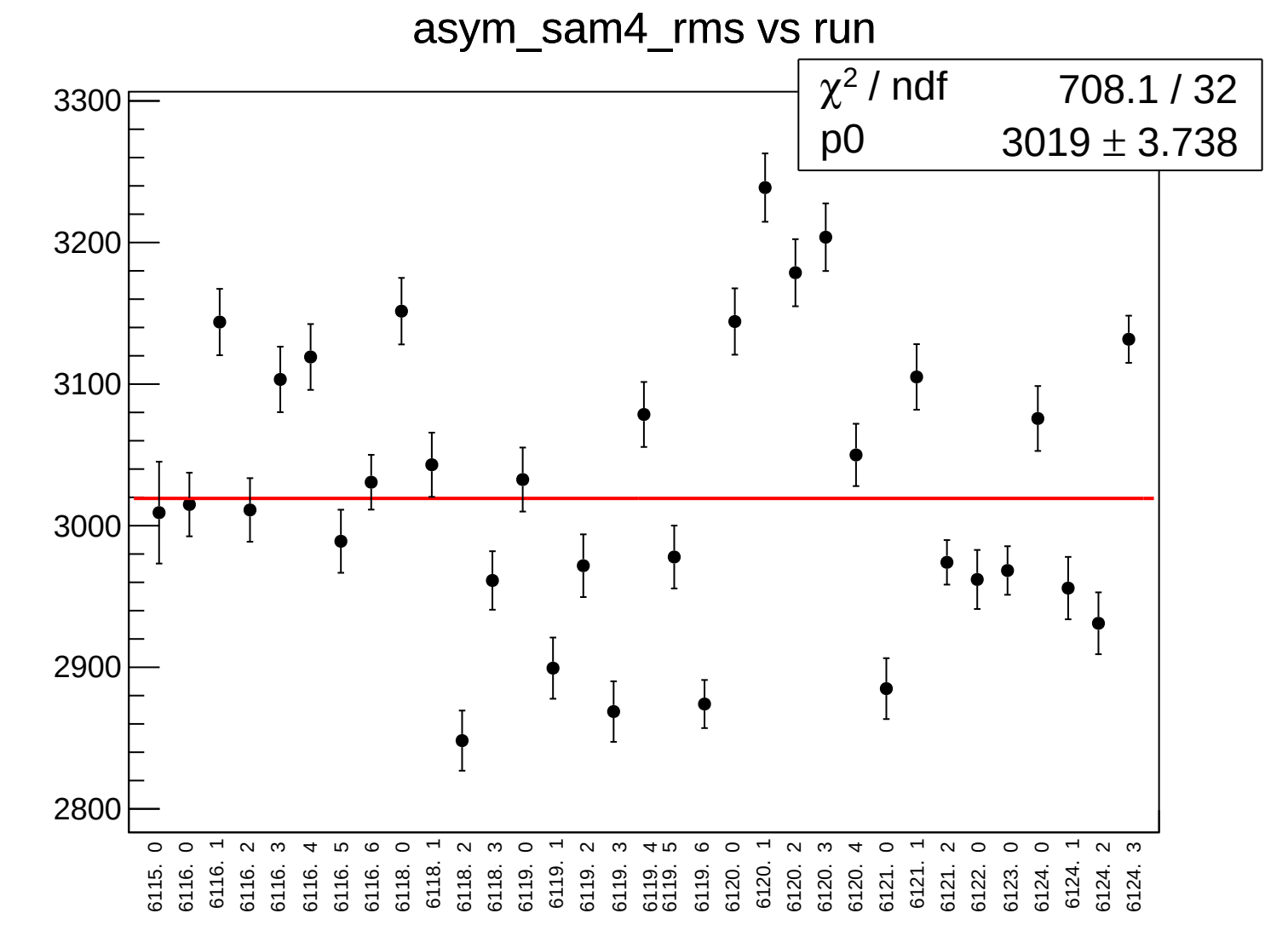

asym_sam3_mean vs run
χ² / ndf 25.27 / 32
p0 3093 ± 2864
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 445.4
Std Dev 432.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

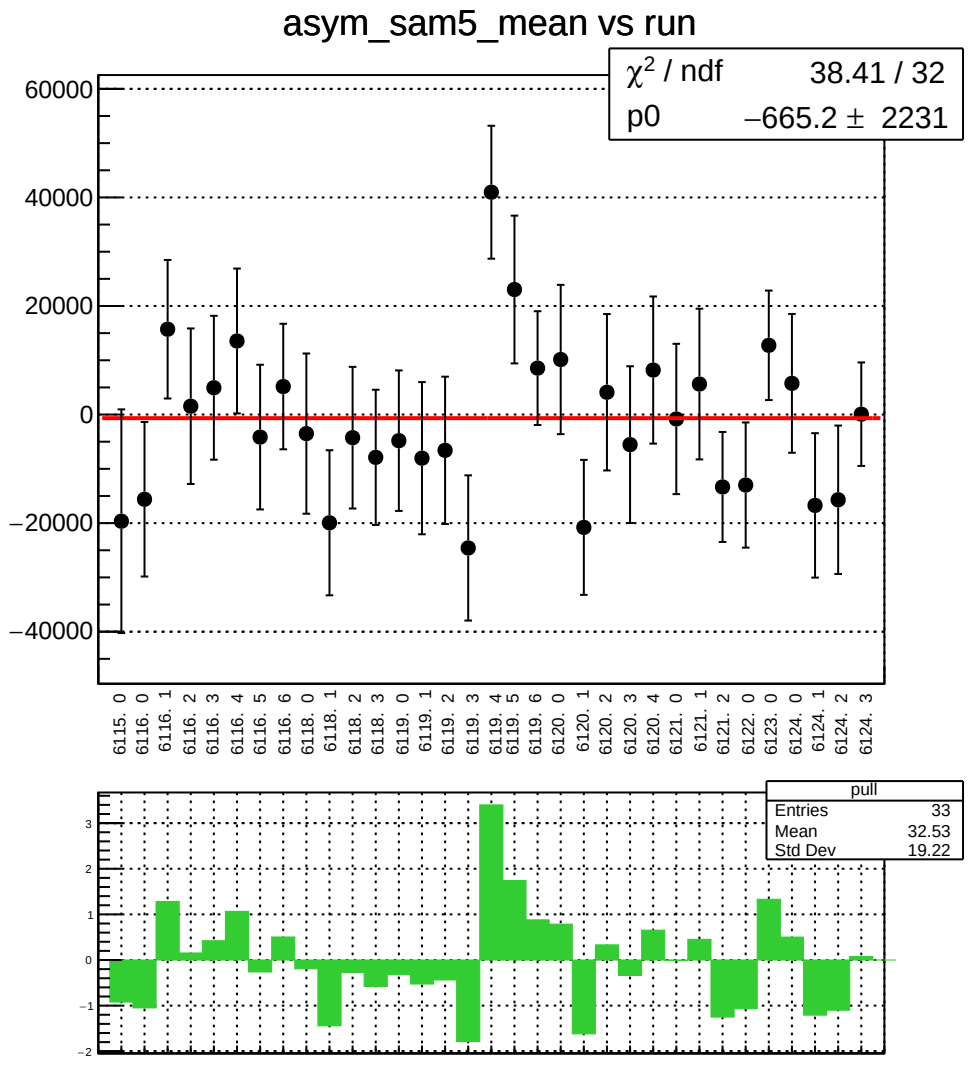

pull1D
Entries 33
Mean −0.005582
Std Dev 0.8751
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

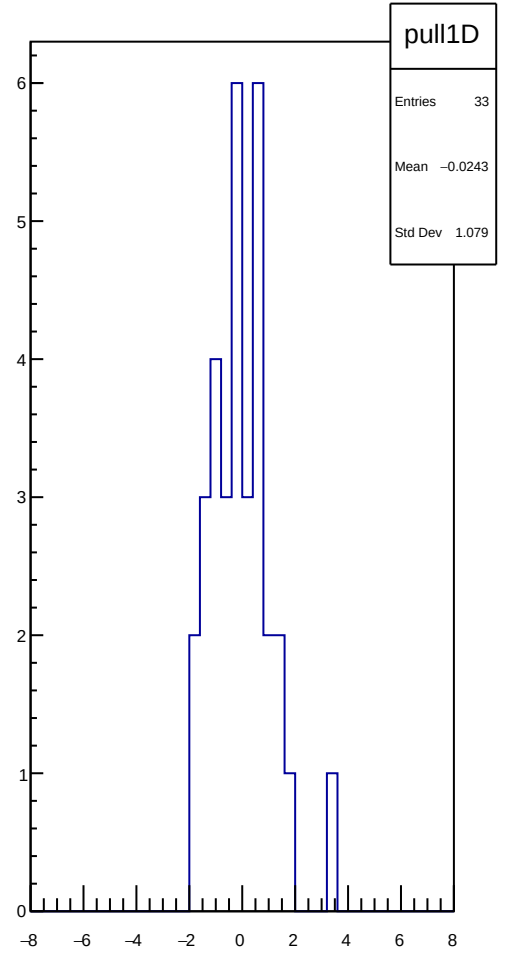

asym_sam3_rms vs run
χ² / ndf 3274 / 32
p0 1633 ± 2.025
1900
1800
1700
1600
1500
1400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

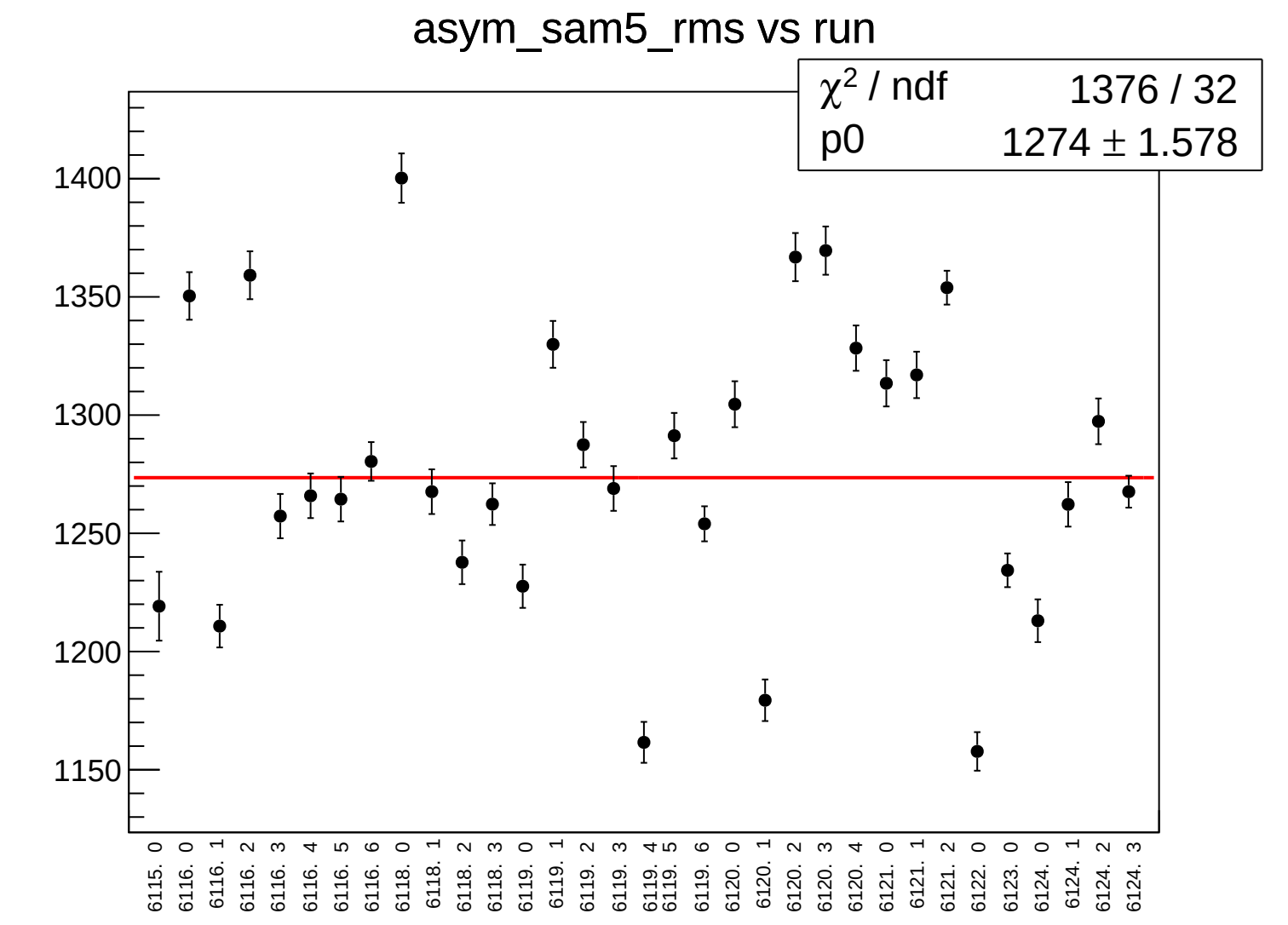

asym_sam4_mean vs run
×10^3
χ² / ndf 27.61 / 32
p0 2902 ± 5286
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 922.7
Std Dev 907.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

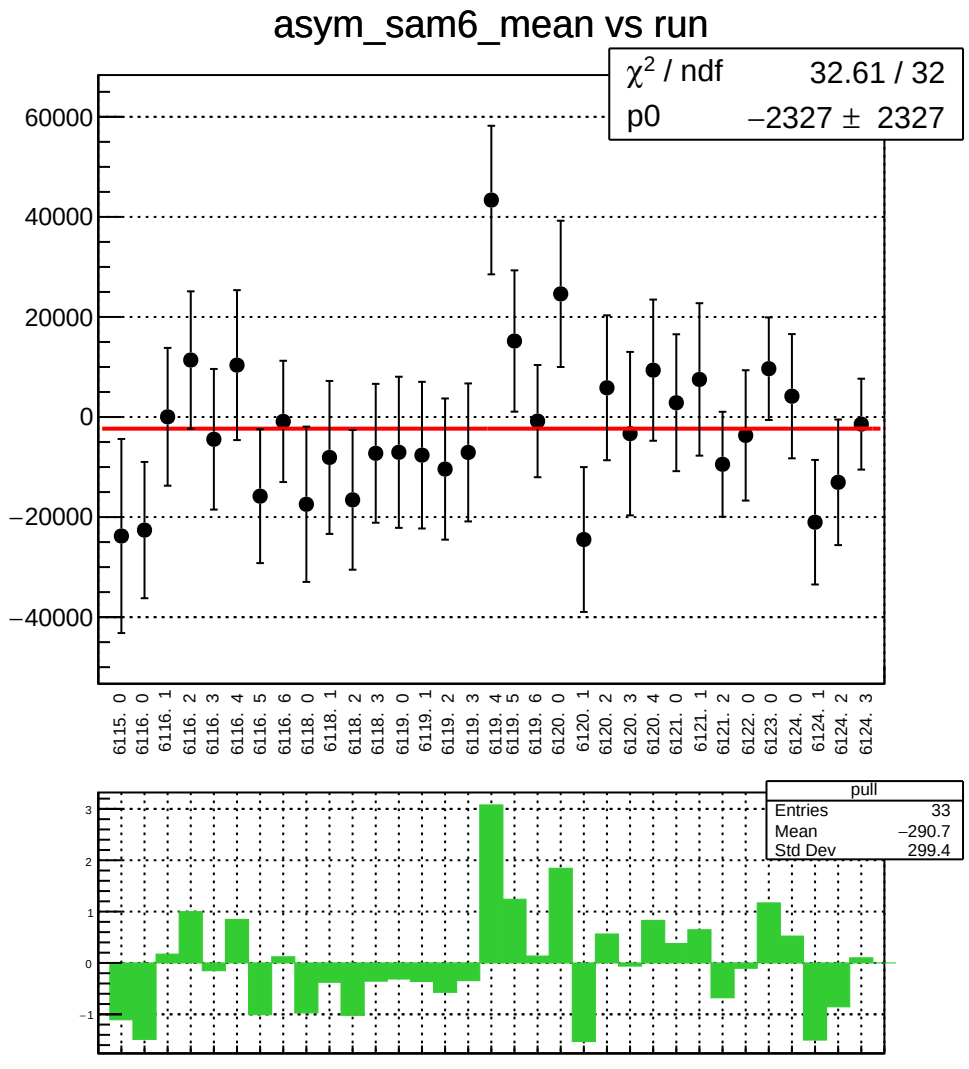

pull1D
Entries 33
Mean −0.002643
Std Dev 0.9147
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

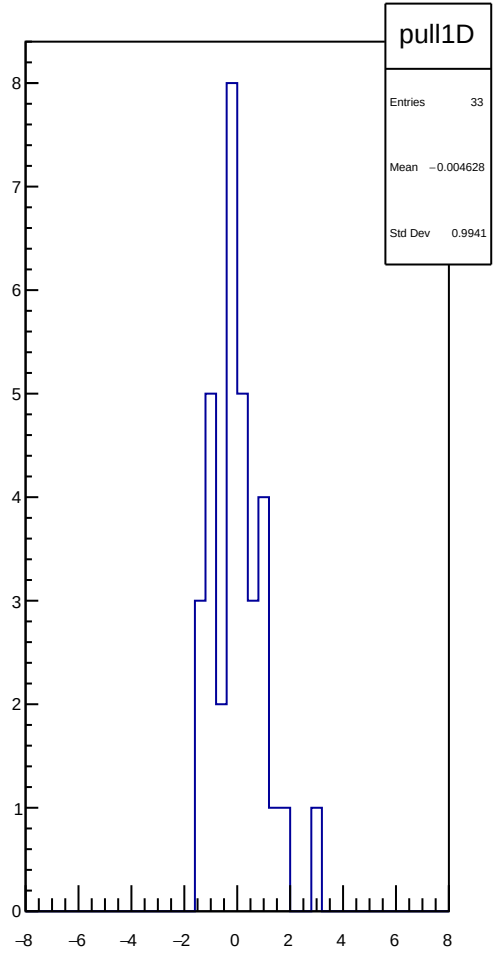

asym_sam4_rms vs run
χ² / ndf 708.1 / 32
p0 3019 ± 3.738
3300
3200
3100
3000
2900
2800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

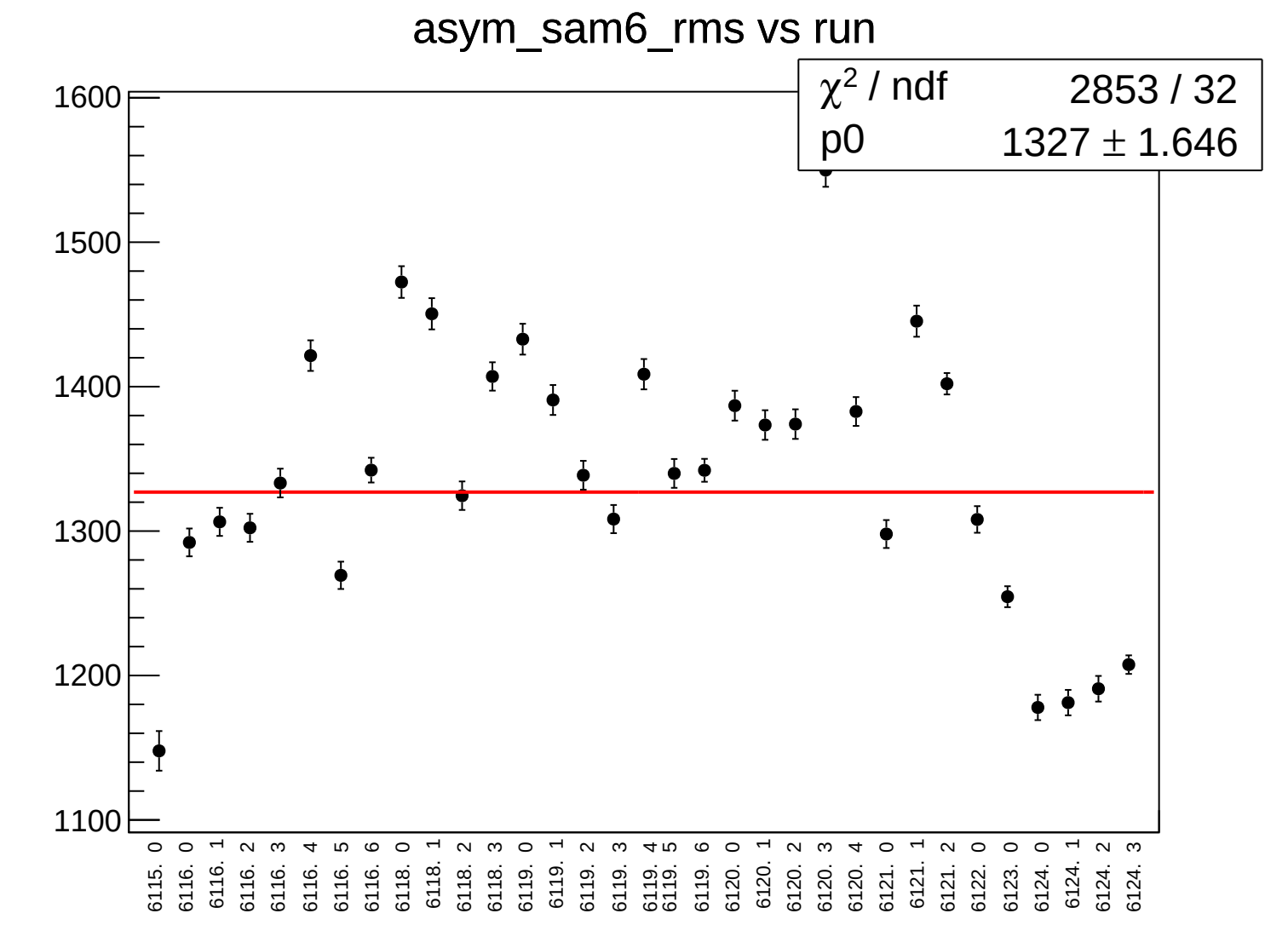

asym_sam5_mean vs run
χ² / ndf 38.41 / 32
p0 −665.2 ± 2231
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 32.53
Std Dev 19.22
3
2
1
0
−1
−2

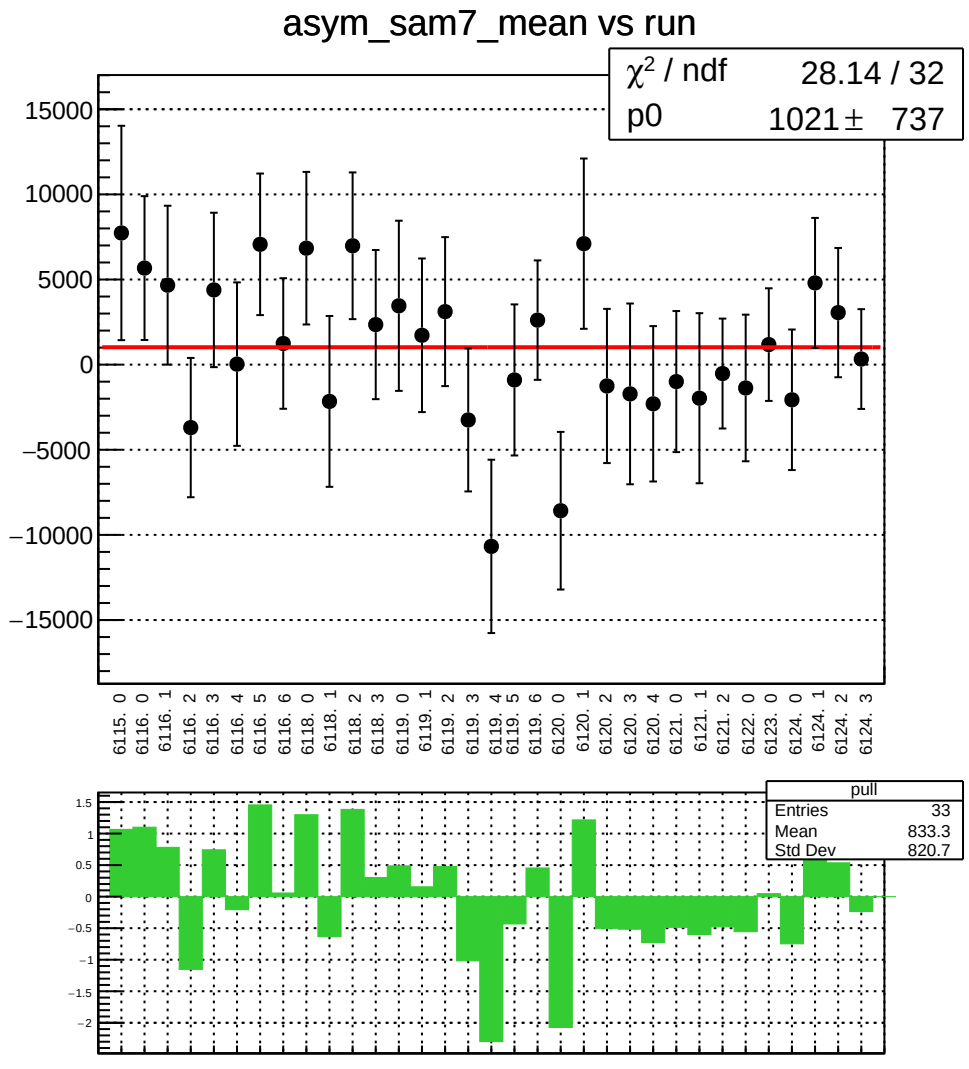

pull1D
Entries 33
Mean −0.0243
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

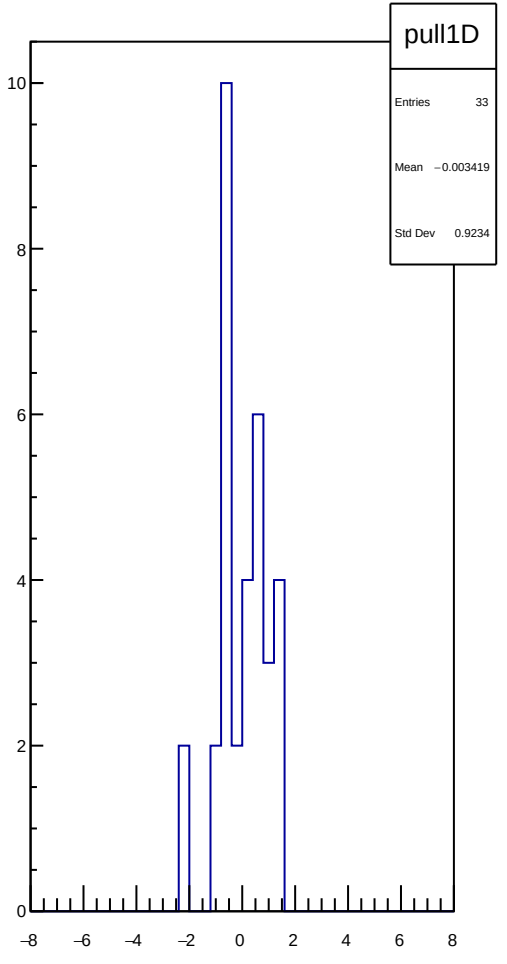

asym_sam5_rms vs run
χ² / ndf 1376 / 32
p0 1274 ± 1.578
1400
1350
1300
1250
1200
1150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

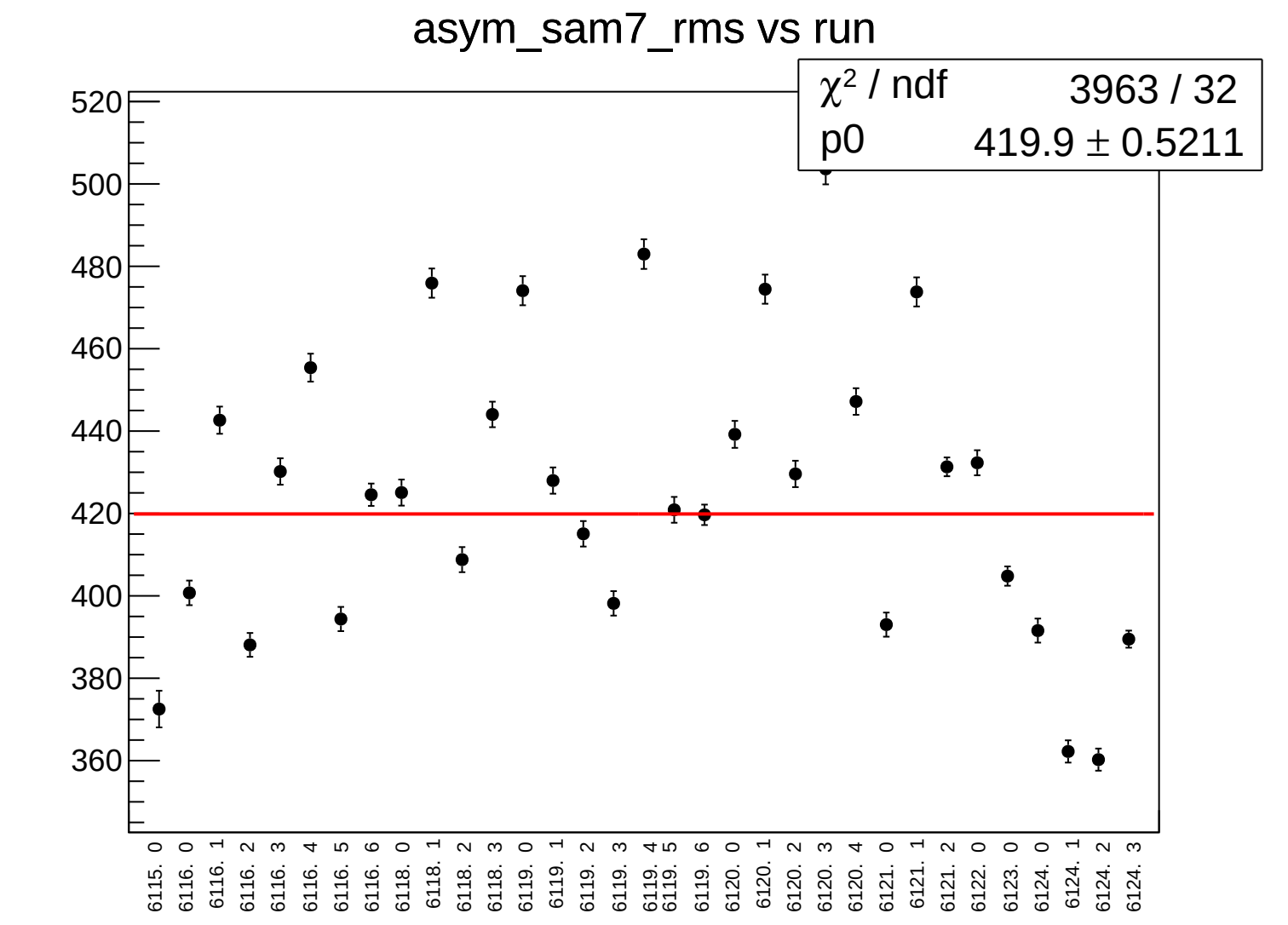

asym_sam6_mean vs run
χ² / ndf 32.61 / 32
p0 −2327 ± 2327
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −290.7
Std Dev 299.4
3
2
1
0
−1

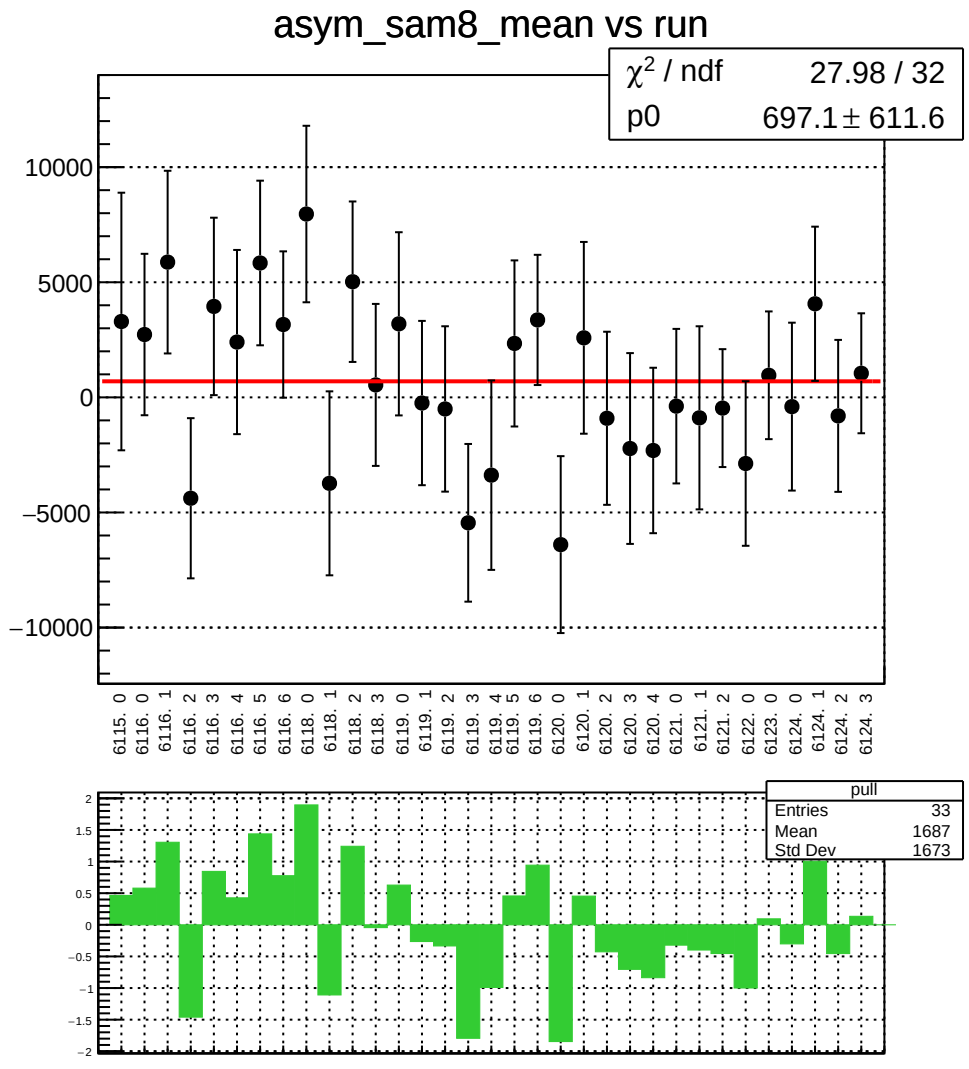

pull1D
Entries 33
Mean −0.004628
Std Dev 0.9941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

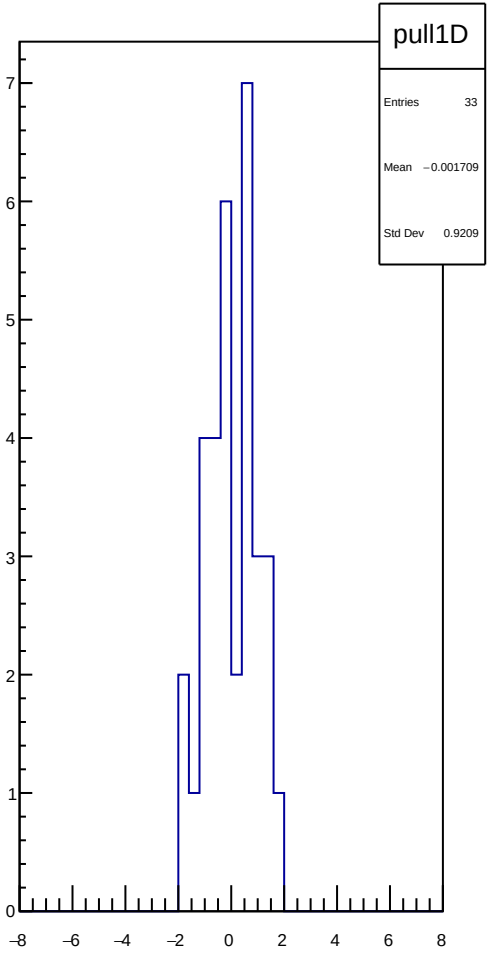

asym_sam6_rms vs run
χ² / ndf 2853 / 32
p0 1327 ± 1.646
1600
1500
1400
1300
1200
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

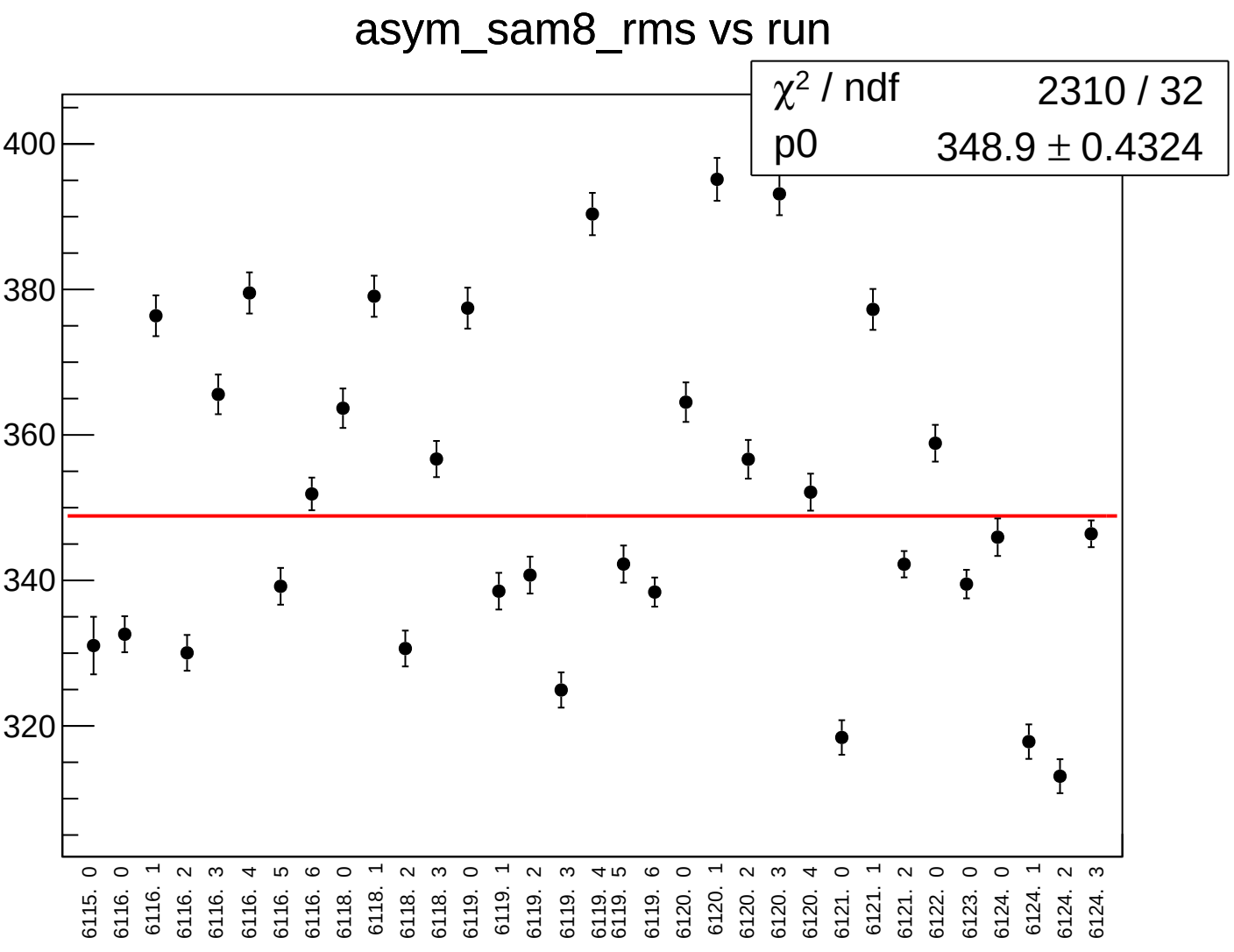

asym_sam7_mean vs run
χ² / ndf 28.14 / 32
p0 1021 ± 737
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 833.3
Std Dev 820.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

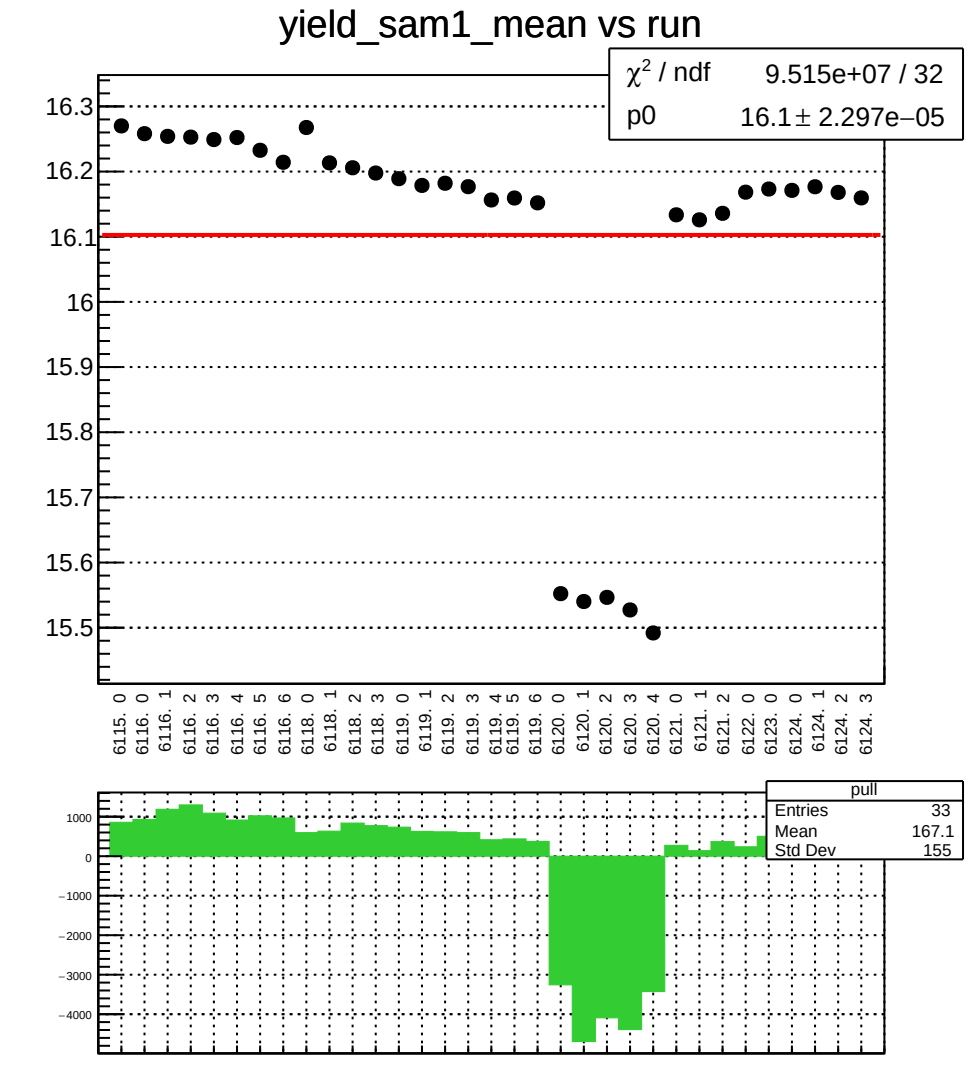

pull1D
Entries 33
Mean −0.003419
Std Dev 0.9234
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

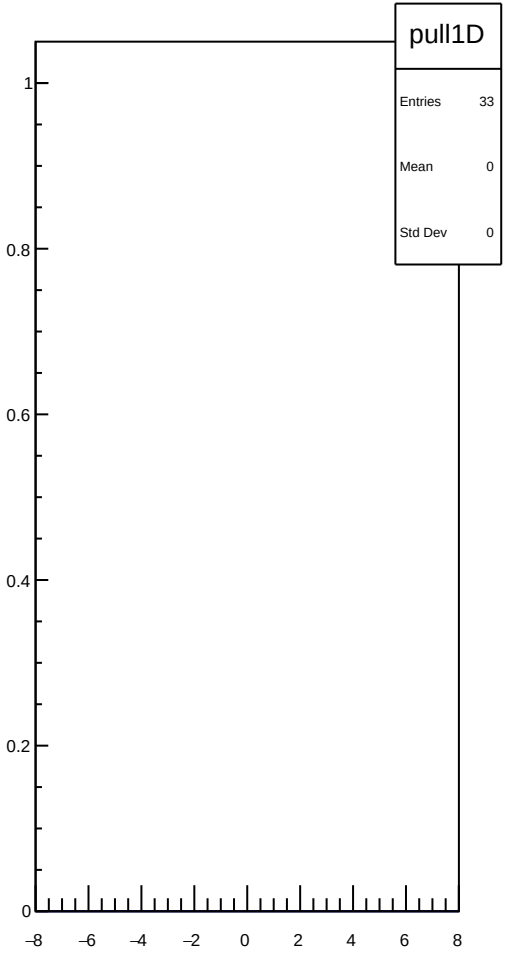

asym_sam7_rms vs run
χ² / ndf 3963 / 32
p0 419.9 ± 0.5211
520
500
480
460
440
420
400
380
360
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

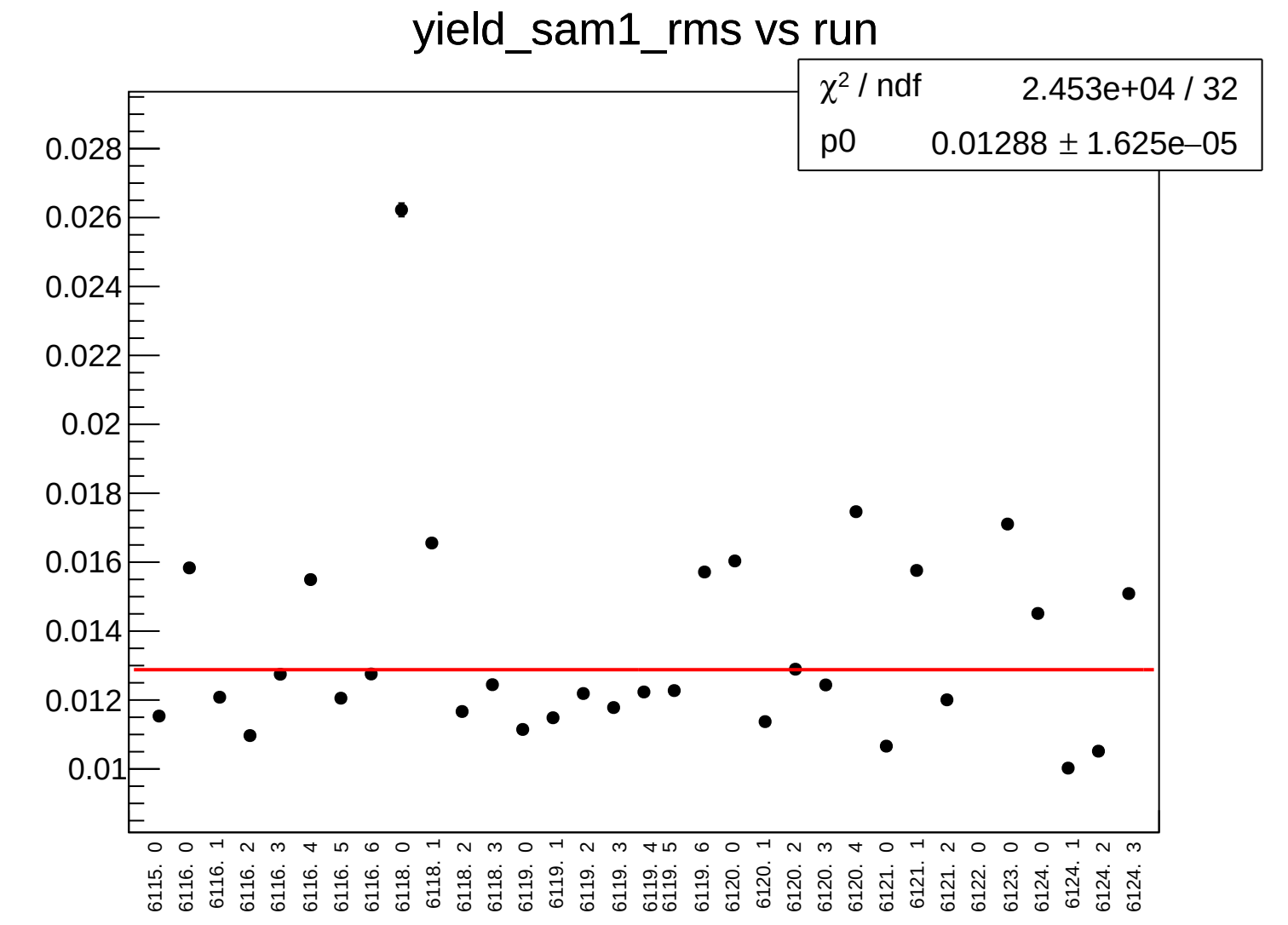

asym_sam8_mean vs run
χ² / ndf 27.98 / 32
p0 697.1 ± 611.6
10000
5000
0
−5000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1687
Std Dev 1673
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

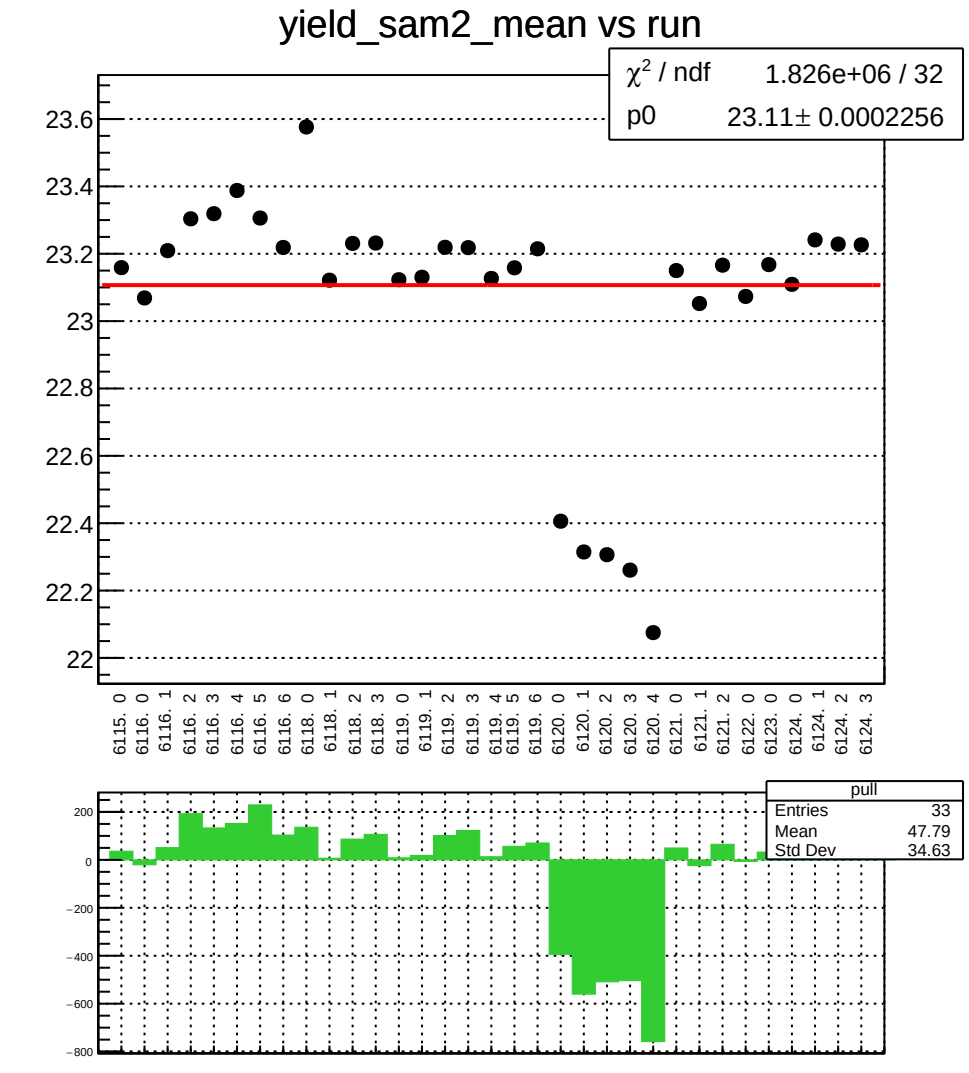

pull1D
Entries 33
Mean −0.001709
Std Dev 0.9209
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

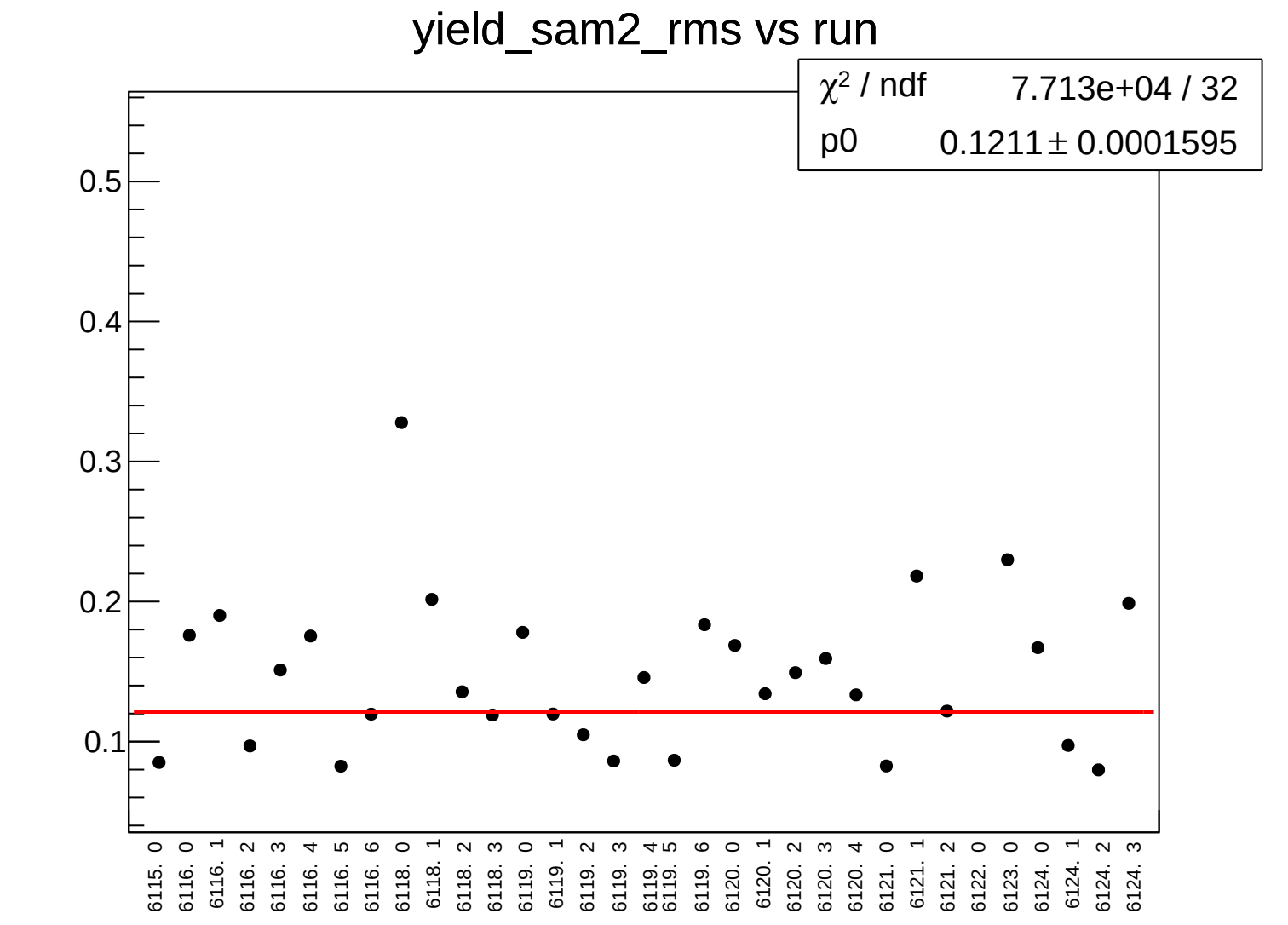

asym_sam8_rms vs run
χ² / ndf 2310 / 32
p0 348.9 ± 0.4324
400
380
360
340
320
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

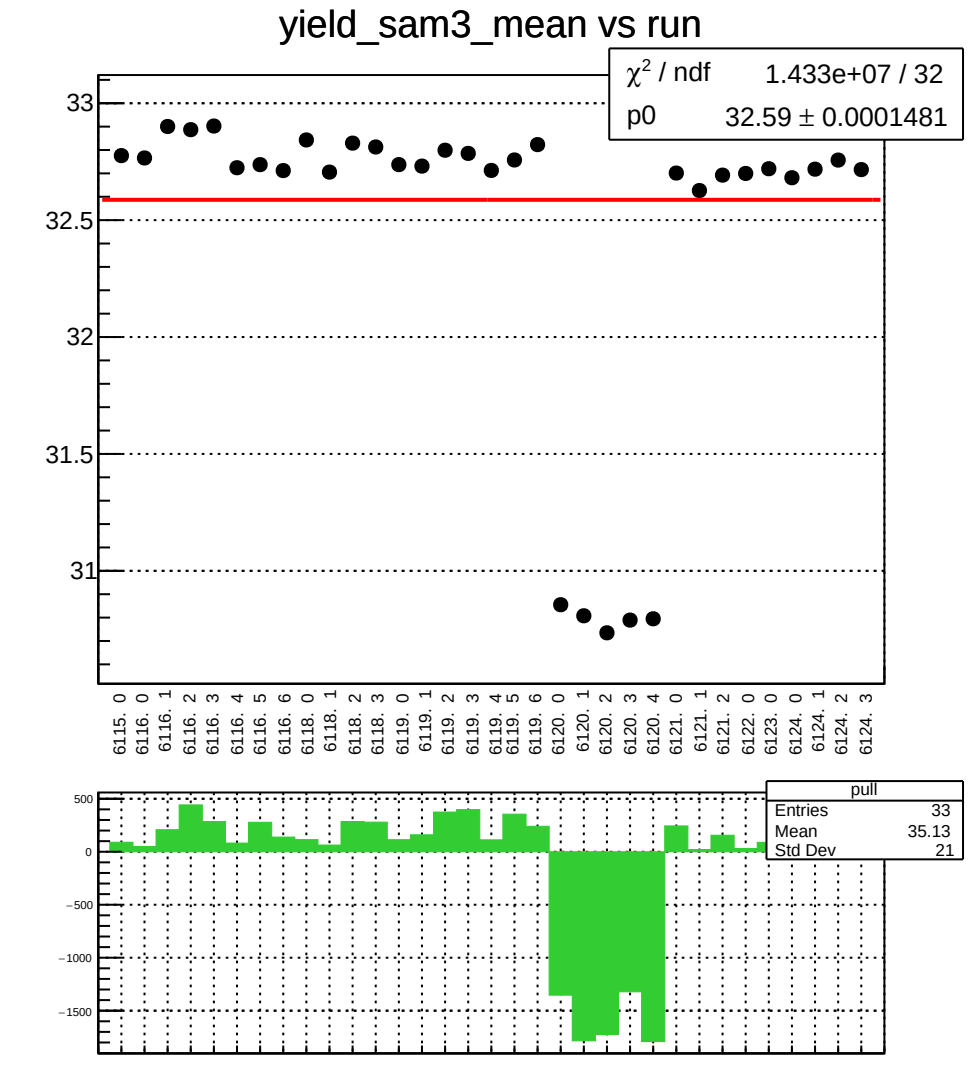

yield_sam1_mean vs run
χ² / ndf 9.515e+07 / 32
p0 16.1 ± 2.297e−05
16.3
16.2
16.1
16
15.9
15.8
15.7
15.6
15.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 167.1
Std Dev 155
1000
0
−1000
−2000
−3000
−4000

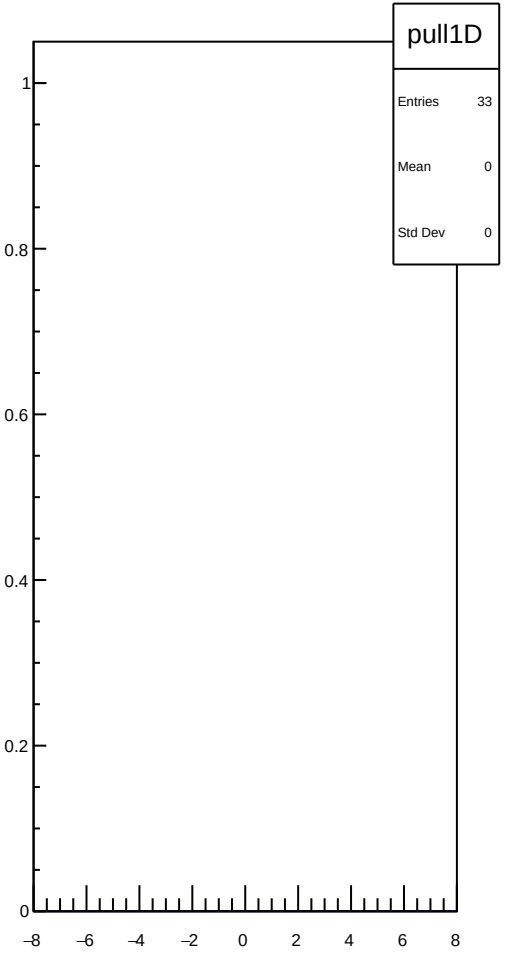

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

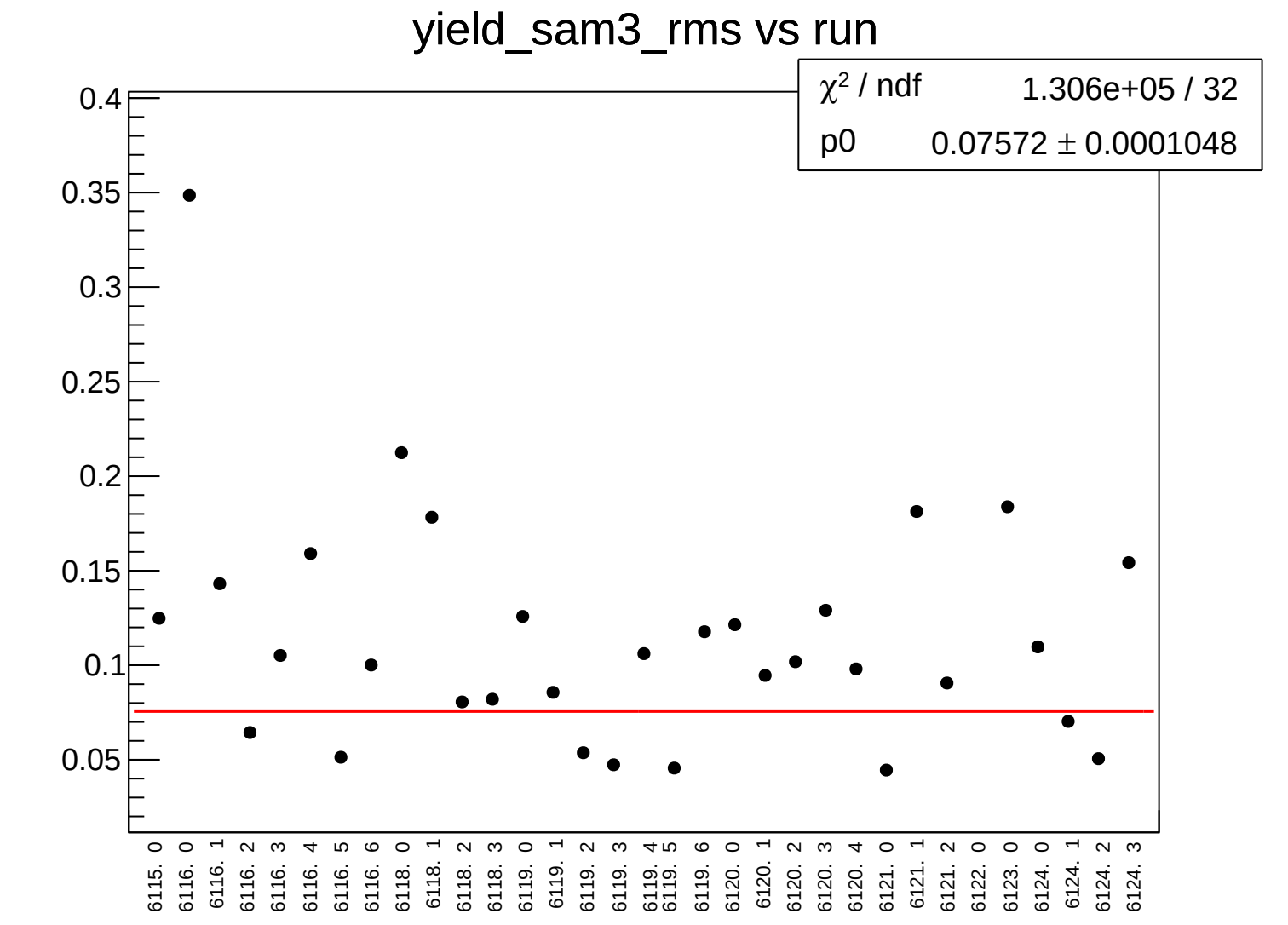

yield_sam1_rms vs run
χ² / ndf 2.453e+04 / 32
p0 0.01288 ± 1.625e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

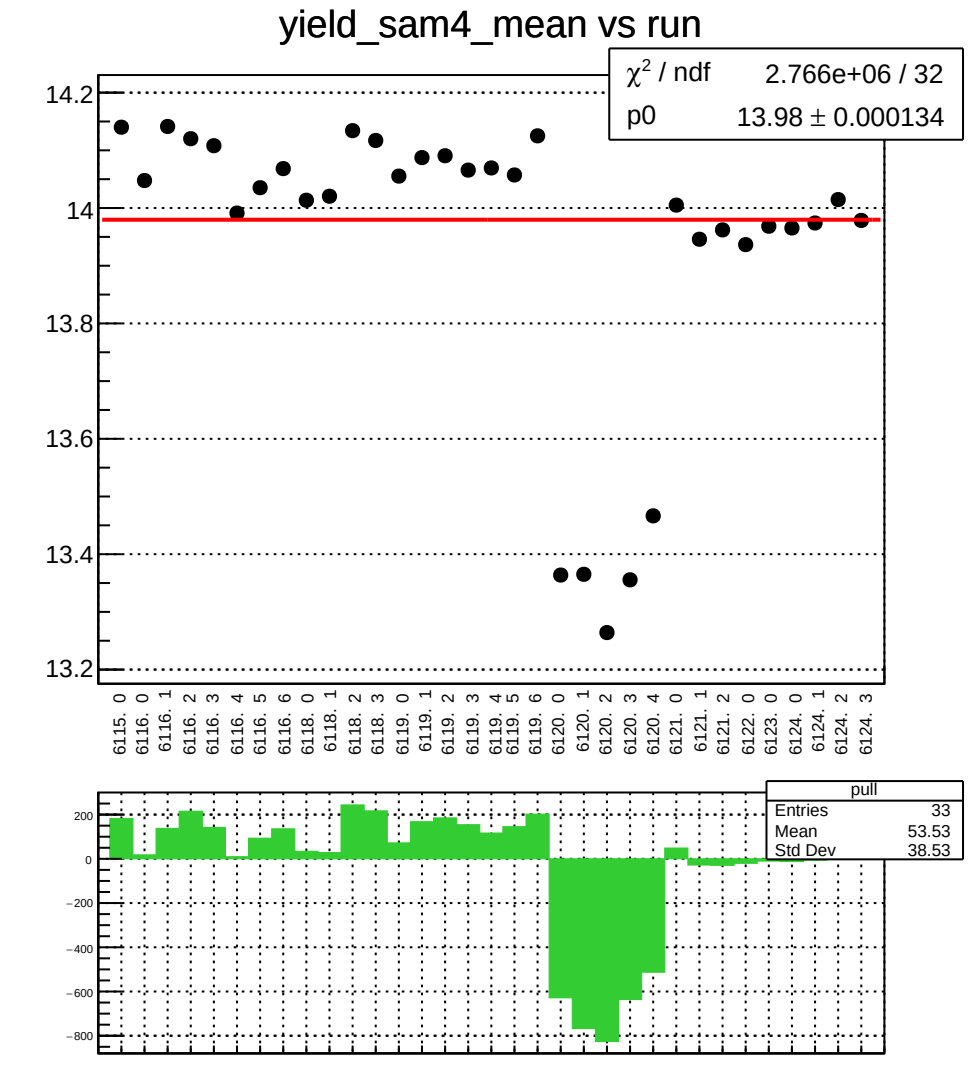

yield_sam2_mean vs run
χ² / ndf 1.826e+06 / 32
p0 23.11± 0.0002256
23.6
23.4
23.2
23
22.8
22.6
22.4
22.2
22
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 47.79
Std Dev 34.63
200
0
−200
−400
−600
−800
pull1D
Entries 33
Mean 0.5698
Std Dev 5.501
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

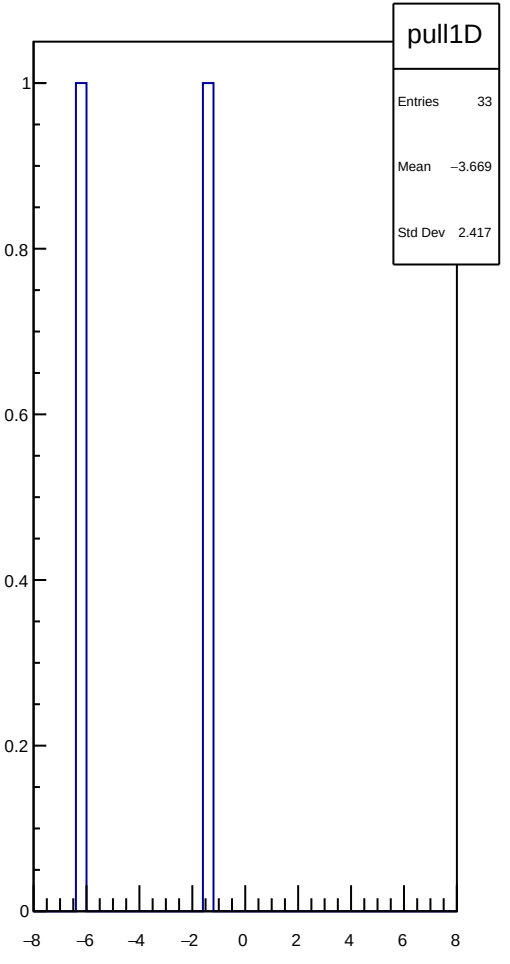

yield_sam2_rms vs run
χ² / ndf 7.713e+04 / 32
p0 0.1211 ± 0.0001595
0.5
0.4
0.3
0.2
0.1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

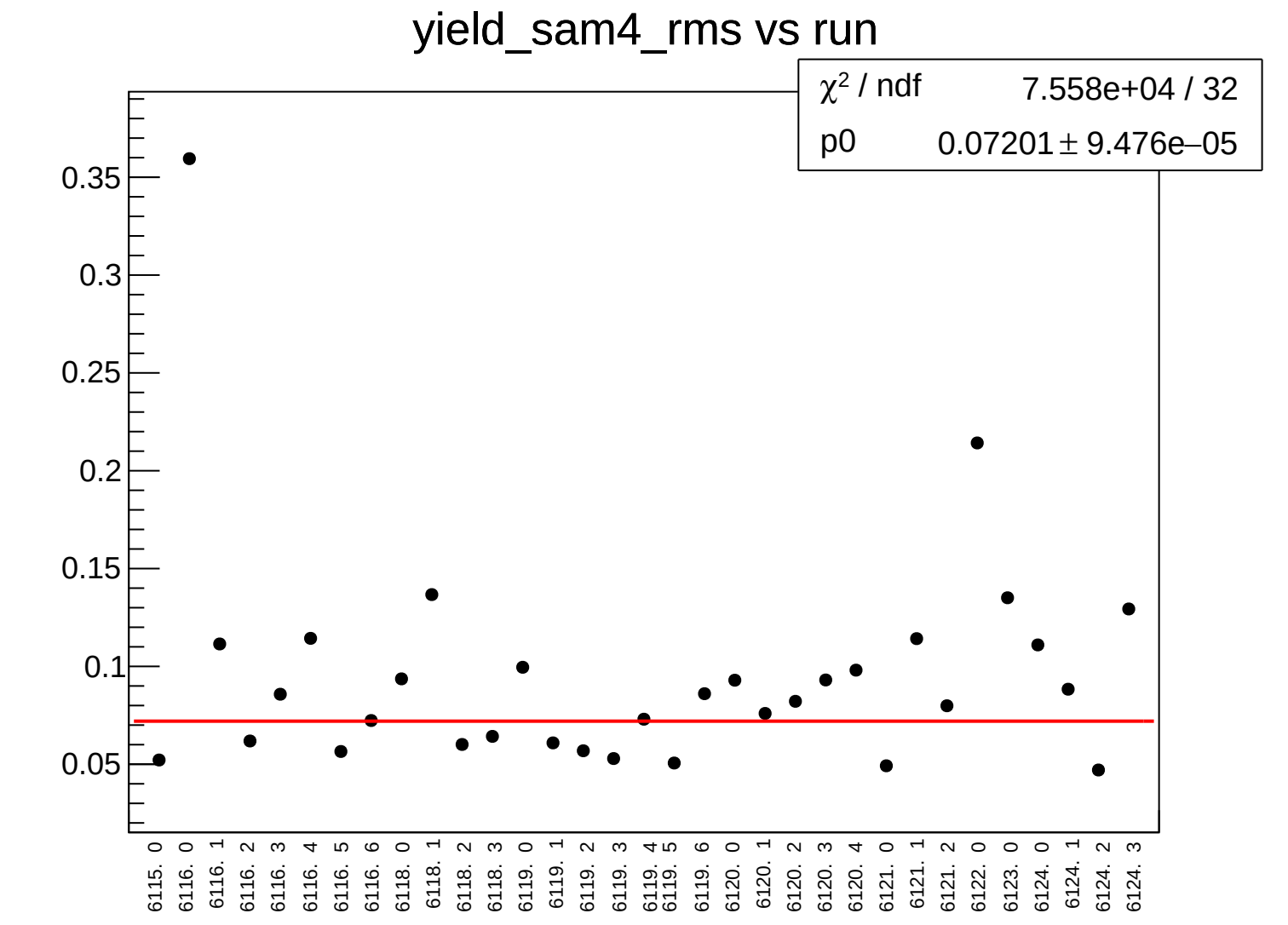

yield_sam3_mean vs run
χ² / ndf 1.433e+07 / 32
p0 32.59 ± 0.0001481
33
32.5
32
31.5
31
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 35.13
Std Dev 21
500
0
−500
−1000
−1500

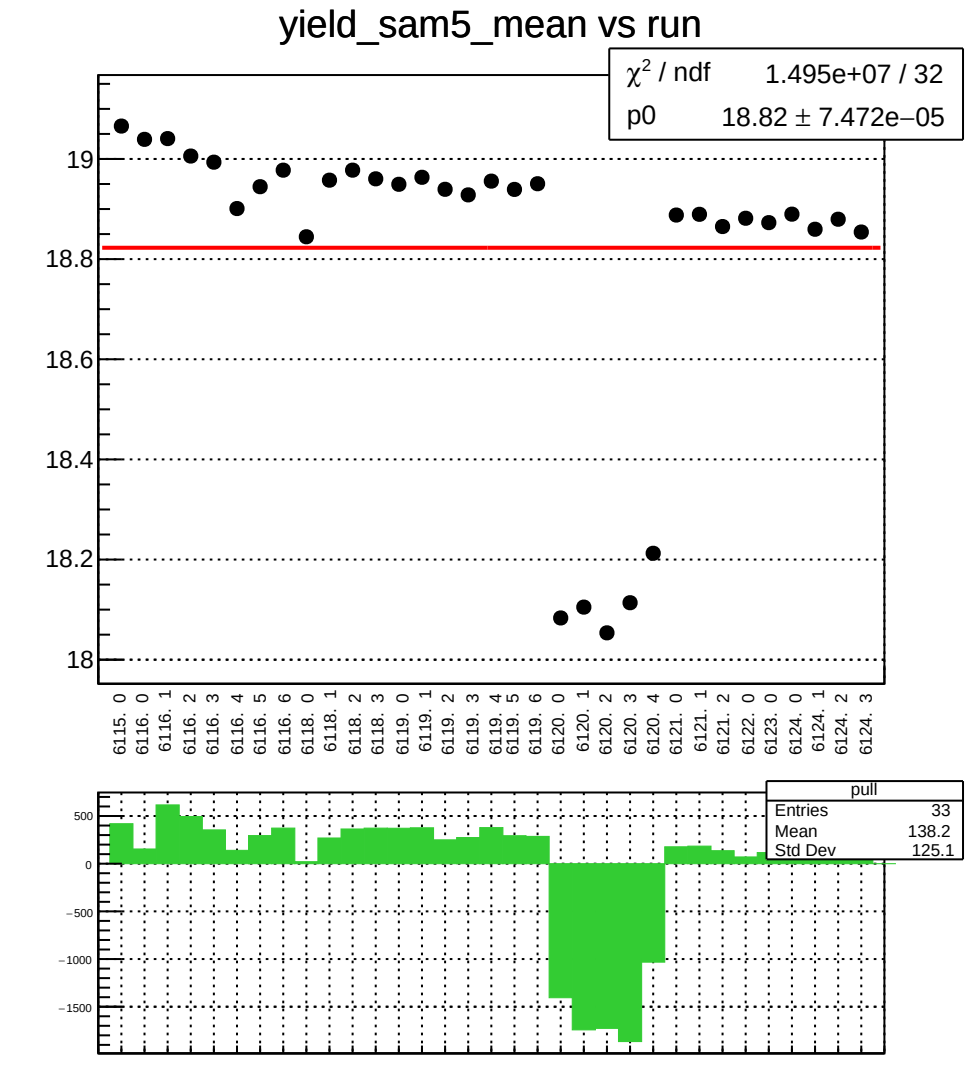

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

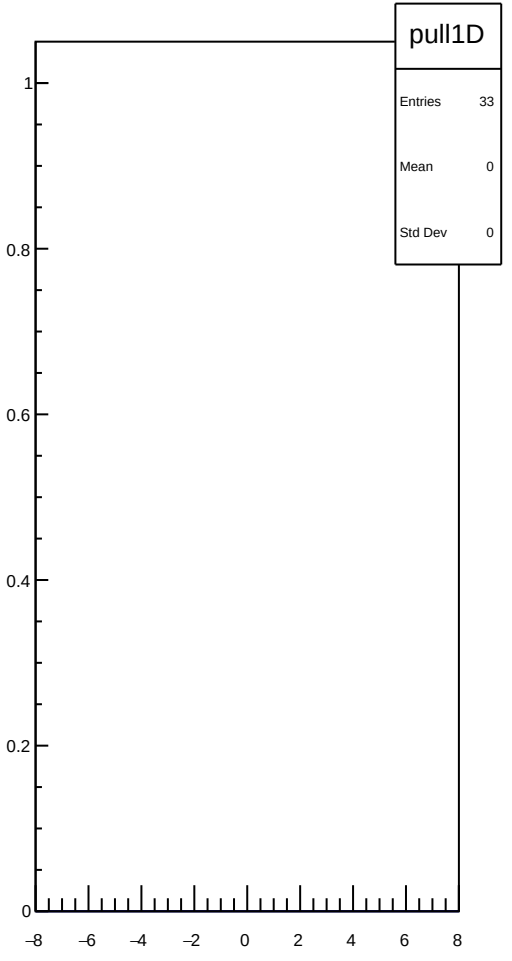

yield_sam3_rms vs run
χ² / ndf 1.306e+05 / 32
p0 0.07572 ± 0.0001048
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

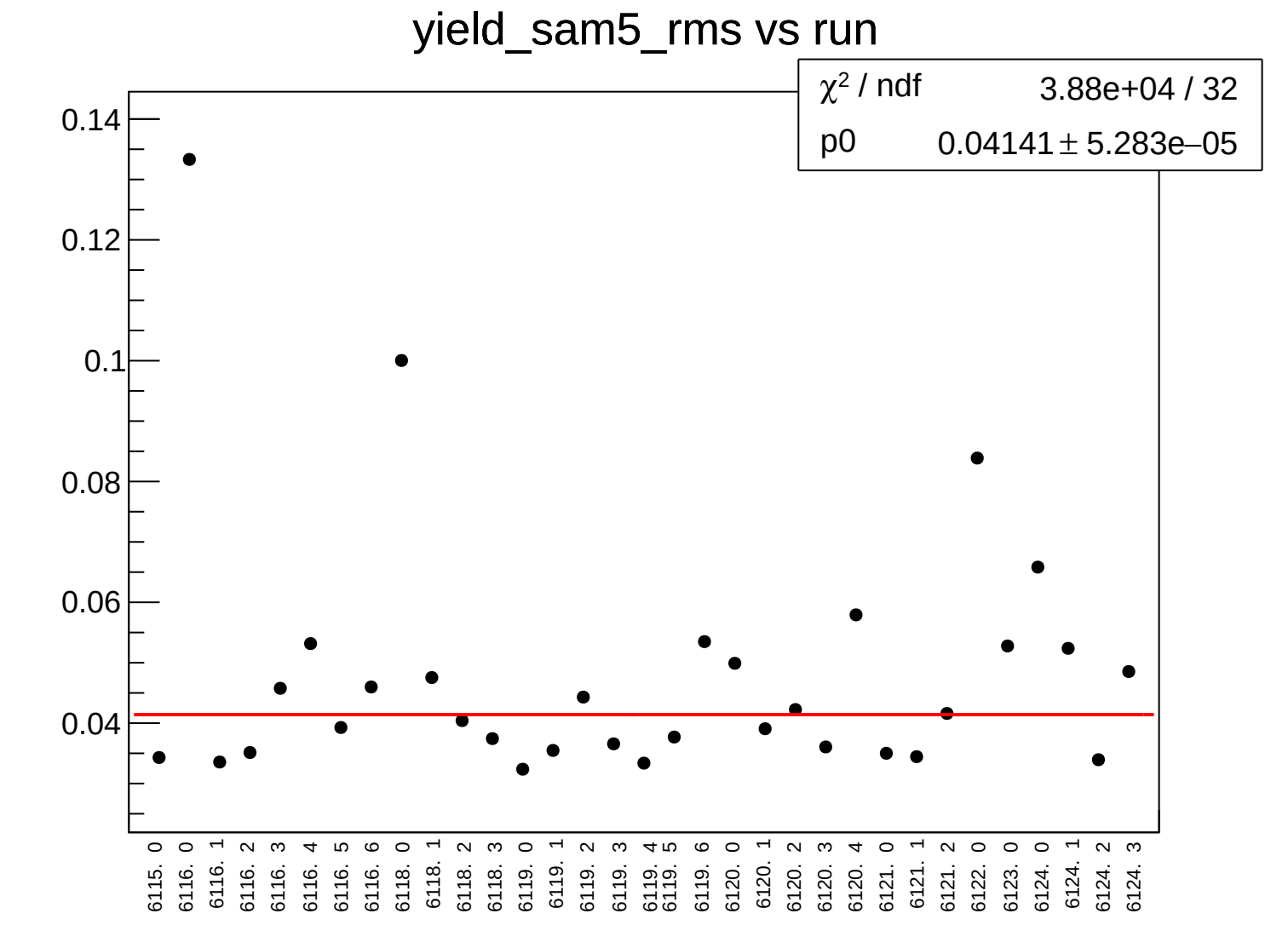

yield_sam4_mean vs run
χ² / ndf 2.766e+06 / 32
p0 13.98 ± 0.000134
14.2
14
13.8
13.6
13.4
13.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 53.53
Std Dev 38.53
200
0
−200
−400
−600
−800

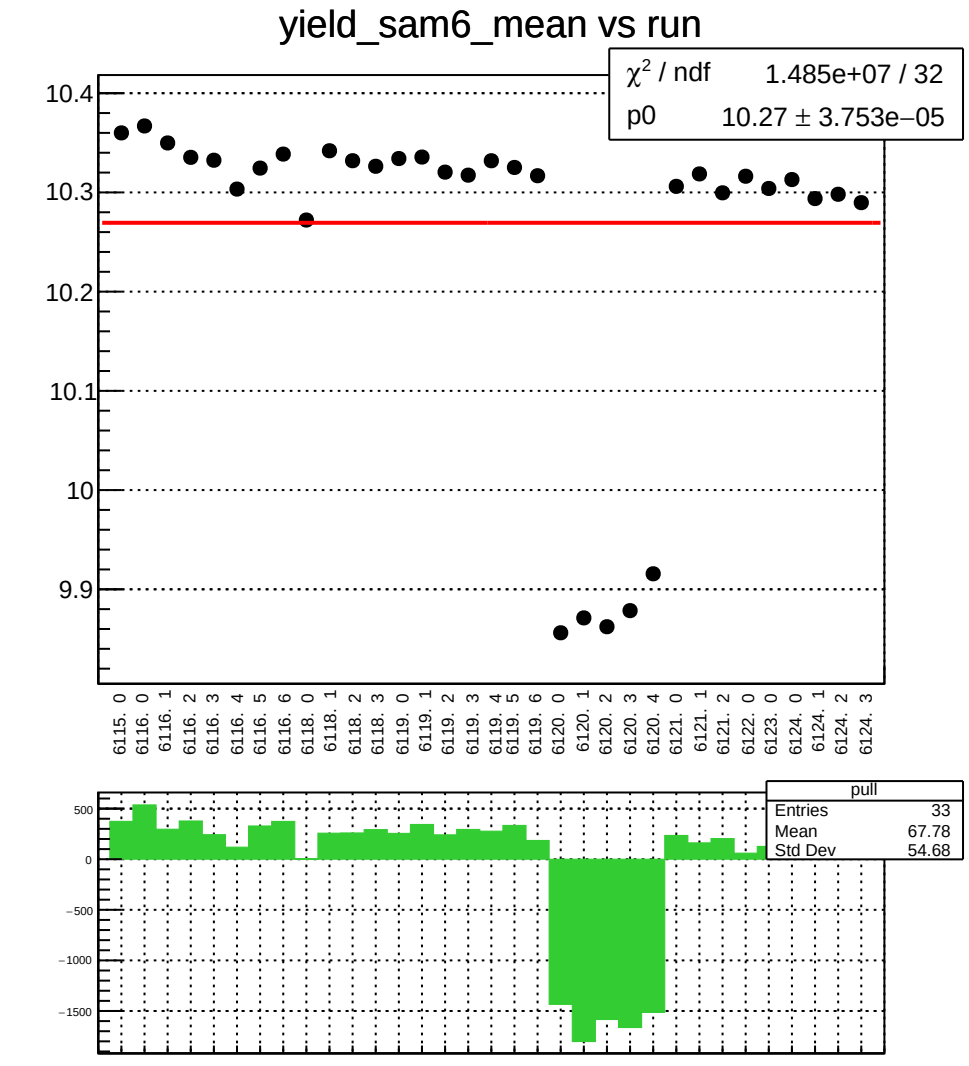

pull1D
Entries 33
Mean −3.669
Std Dev 2.417
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

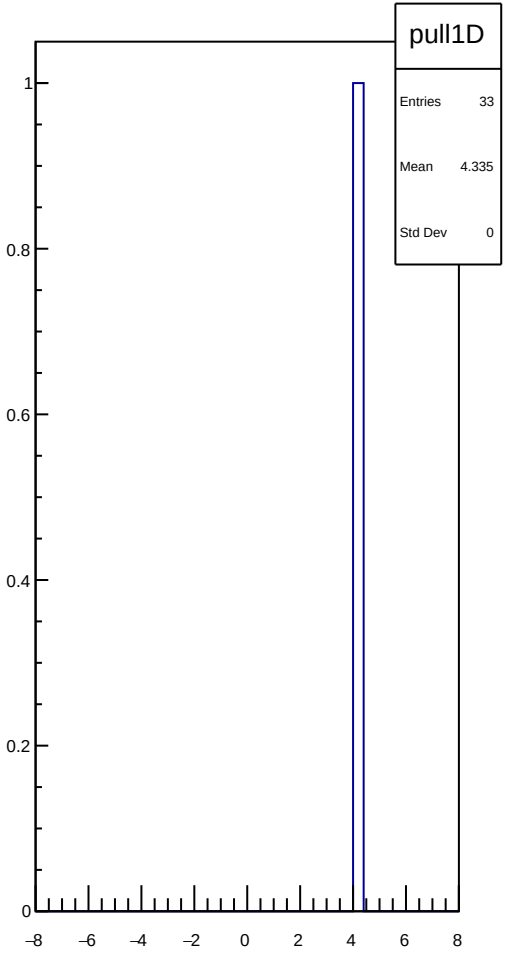

yield_sam4_rms vs run
χ² / ndf 7.558e+04 / 32
p0 0.07201 ± 9.476e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

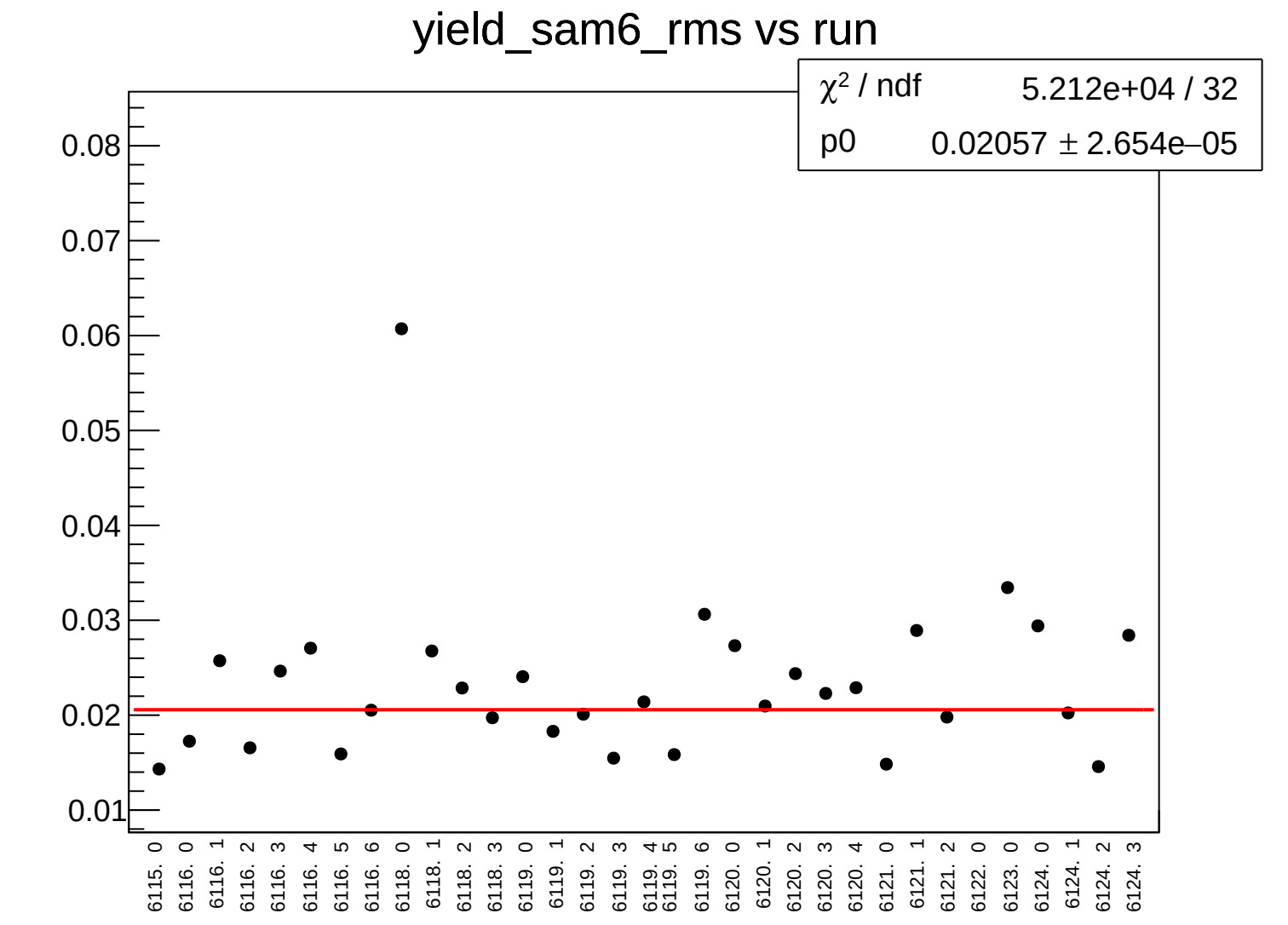

yield_sam5_mean vs run
χ² / ndf 1.495e+07 / 32
p0 18.82 ± 7.472e−05
19
18.8
18.6
18.4
18.2
18
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 138.2
Std Dev 125.1
500
0
−500
−1000
−1500

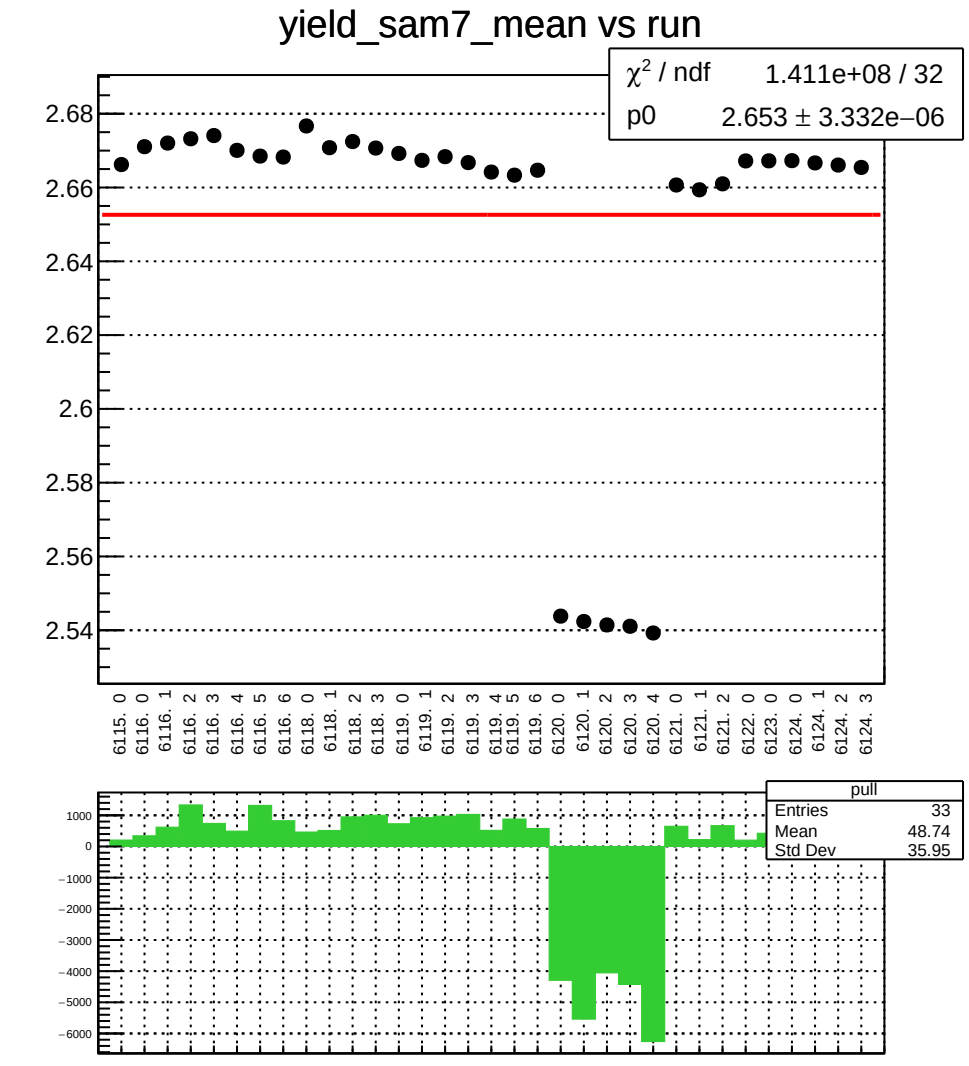

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

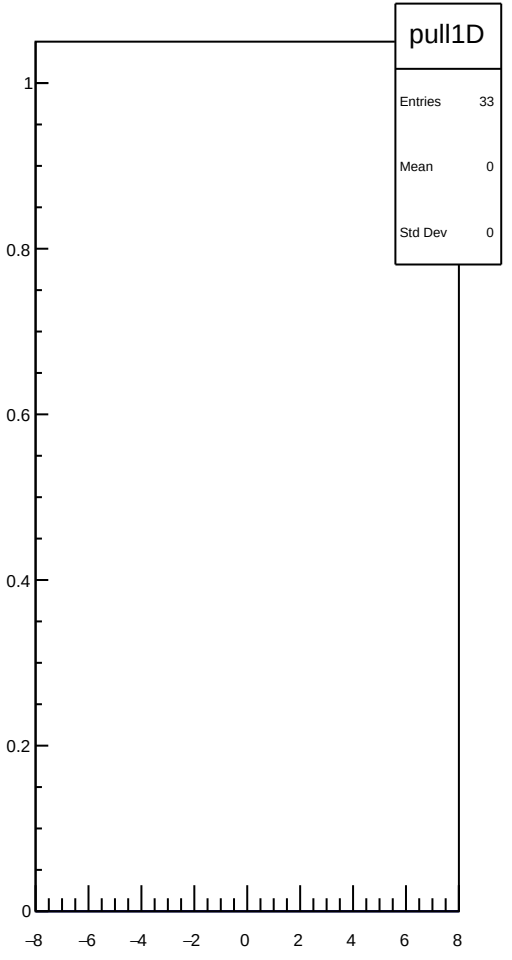

yield_sam5_rms vs run
χ² / ndf 3.88e+04 / 32
p0 0.04141 ± 5.283e–05
0.14
0.12
0.1
0.08
0.06
0.04
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

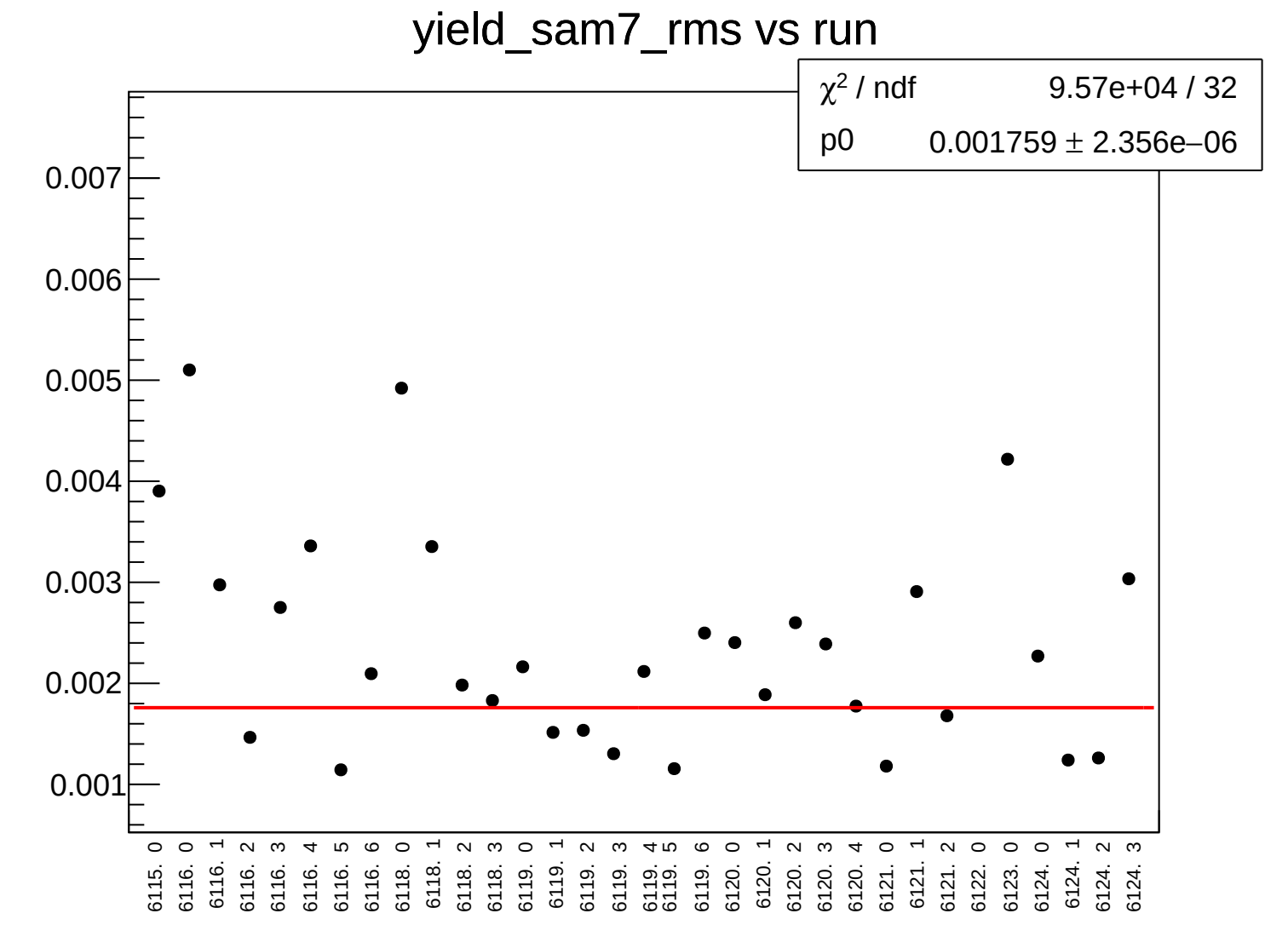

yield_sam6_mean vs run
χ² / ndf 1.485e+07 / 32
p0 10.27 ± 3.753e−05
10.4
10.3
10.2
10.1
10
9.9
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 67.78
Std Dev 54.68
500
0
−500
−1000
−1500

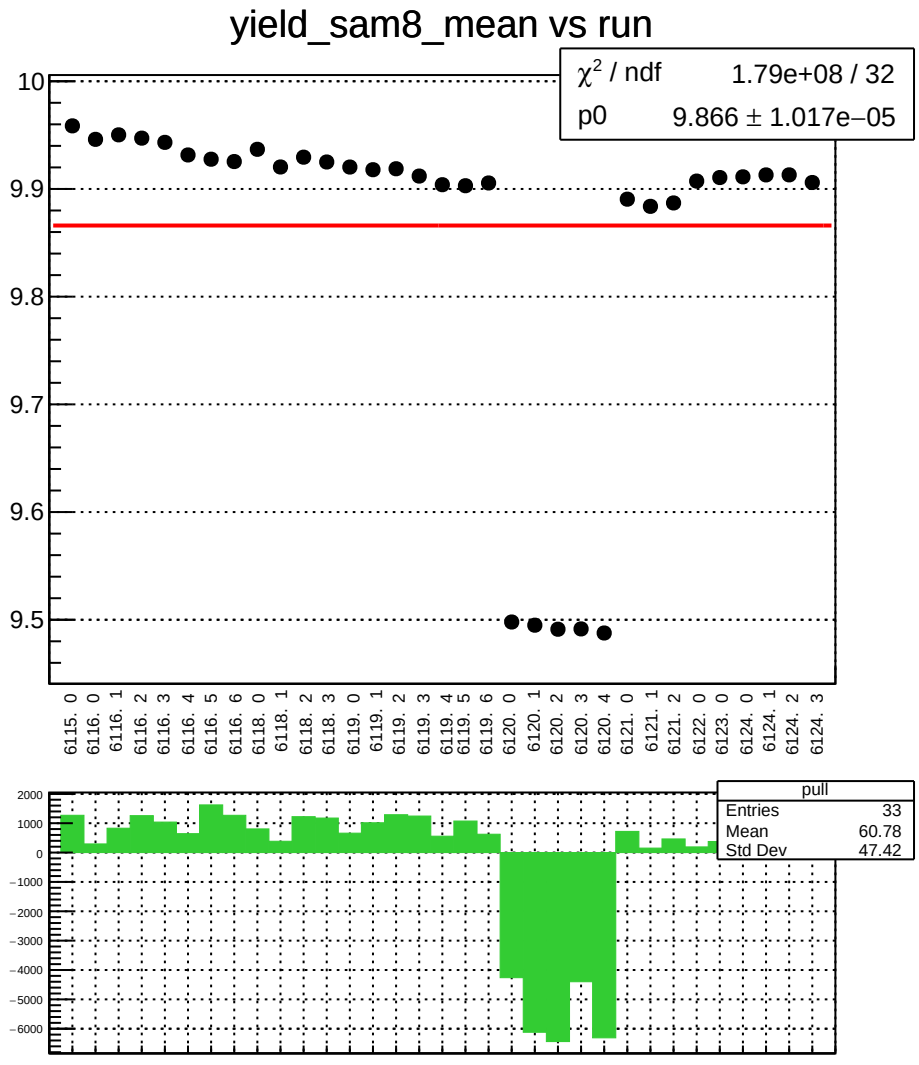

pull1D
Entries 33
Mean 4.335
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

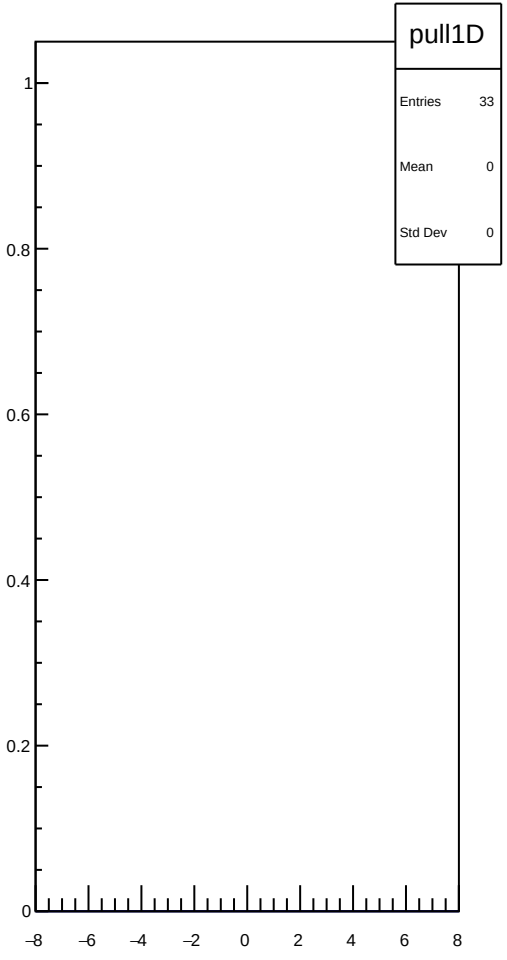

yield_sam6_rms vs run
χ² / ndf 5.212e+04 / 32
p0 0.02057 ± 2.654e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

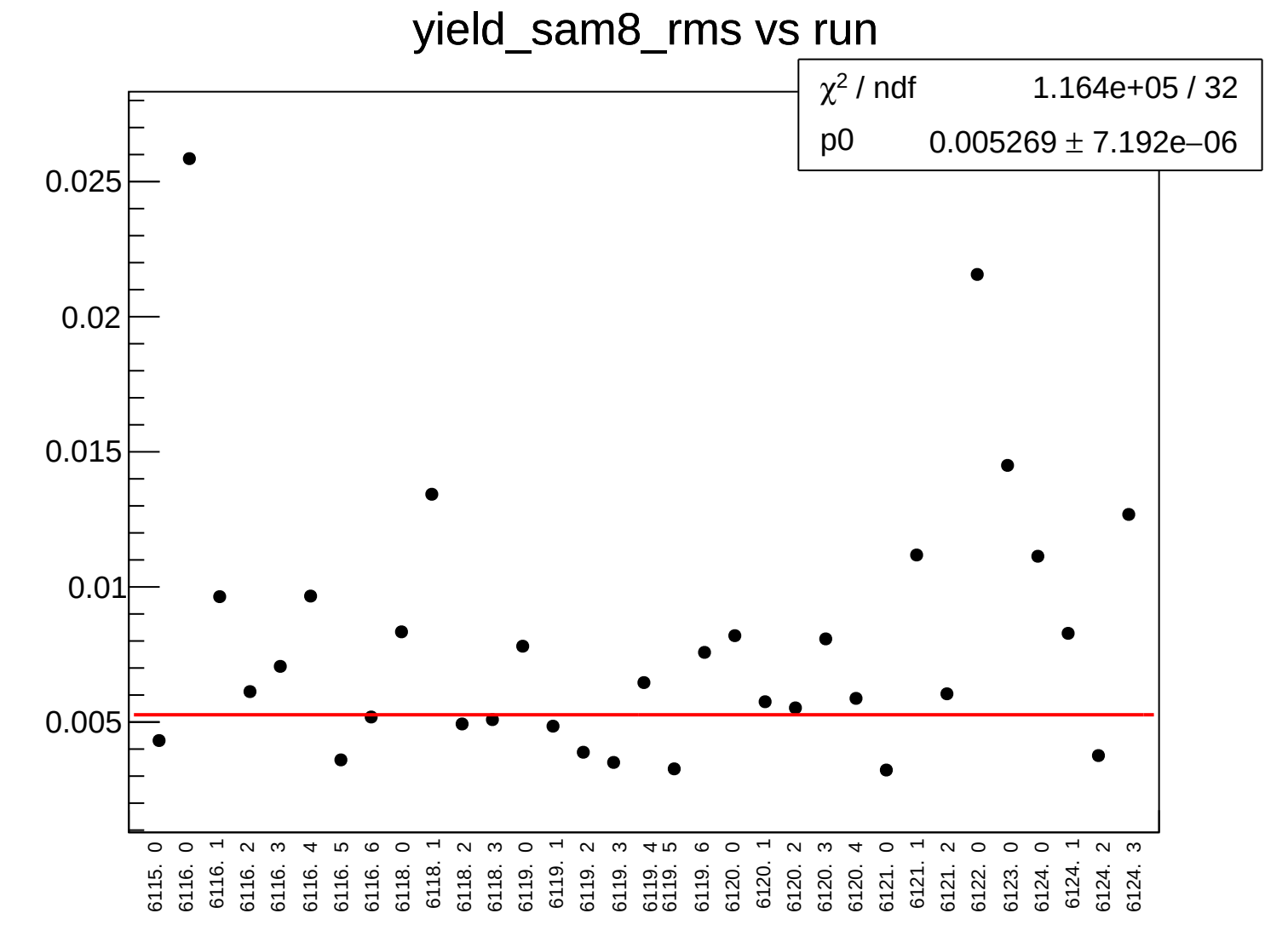

yield_sam7_mean vs run
χ² / ndf 1.411e+08 / 32
p0 2.653 ± 3.332e−06
2.68
2.66
2.64
2.62
2.6
2.58
2.56
2.54
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 48.74
Std Dev 35.95
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

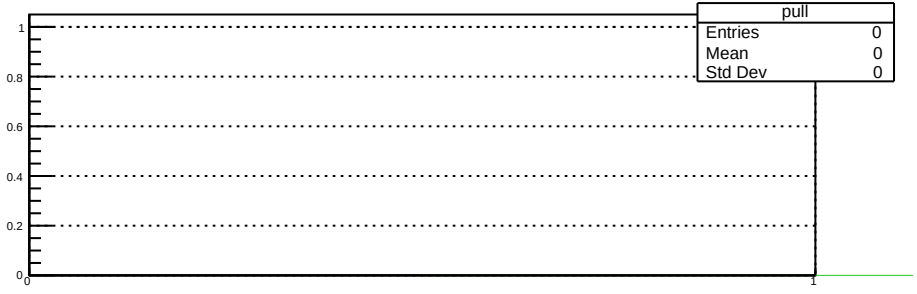

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

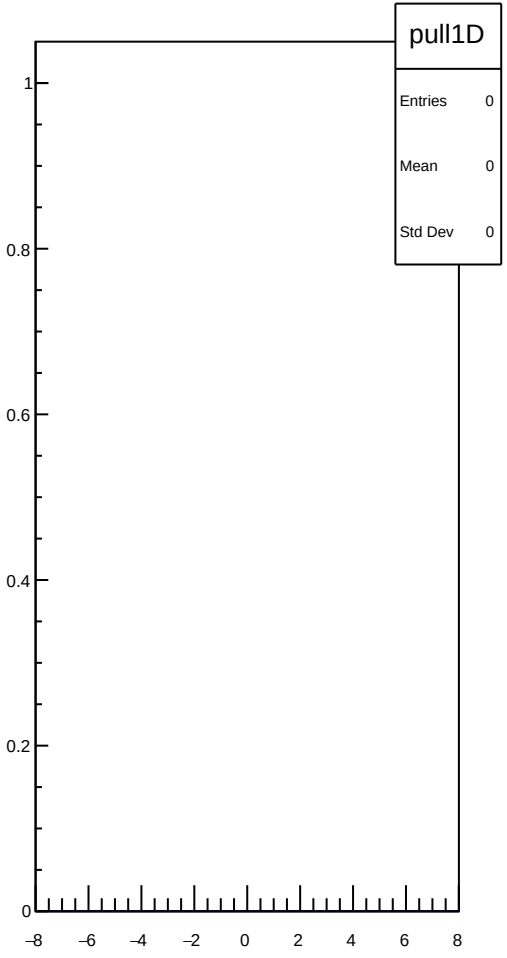

yield_sam7_rms vs run
χ² / ndf 9.57e+04 / 32
p0 0.001759 ± 2.356e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

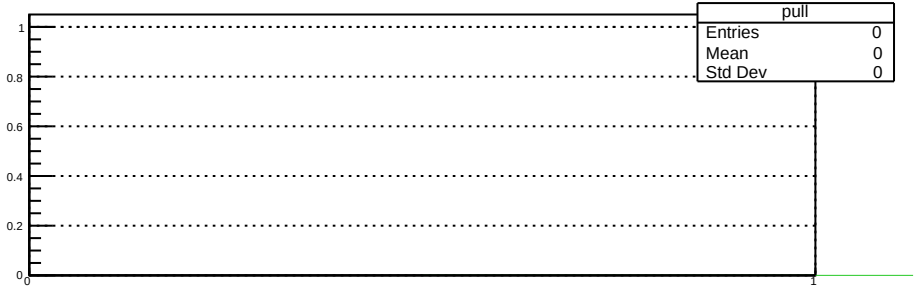

yield_sam8_mean vs run
χ² / ndf 1.79e+08 / 32
p0 9.866 ± 1.017e−05
10
9.9
9.8
9.7
9.6
9.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 60.78
Std Dev 47.42
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

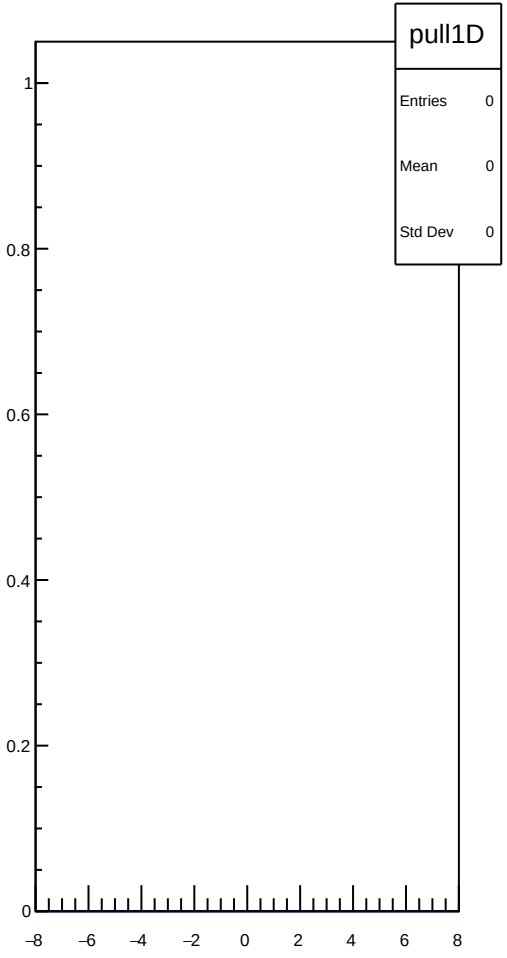

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

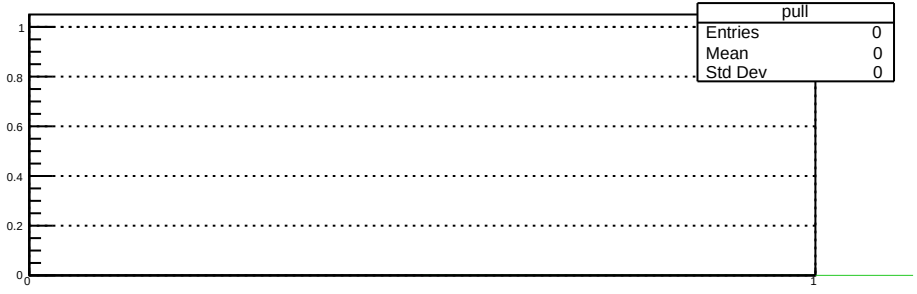

yield_sam8_rms vs run
χ² / ndf 1.164e+05 / 32
p0 0.005269 ± 7.192e−06
0.025
0.02
0.015
0.01
0.005
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

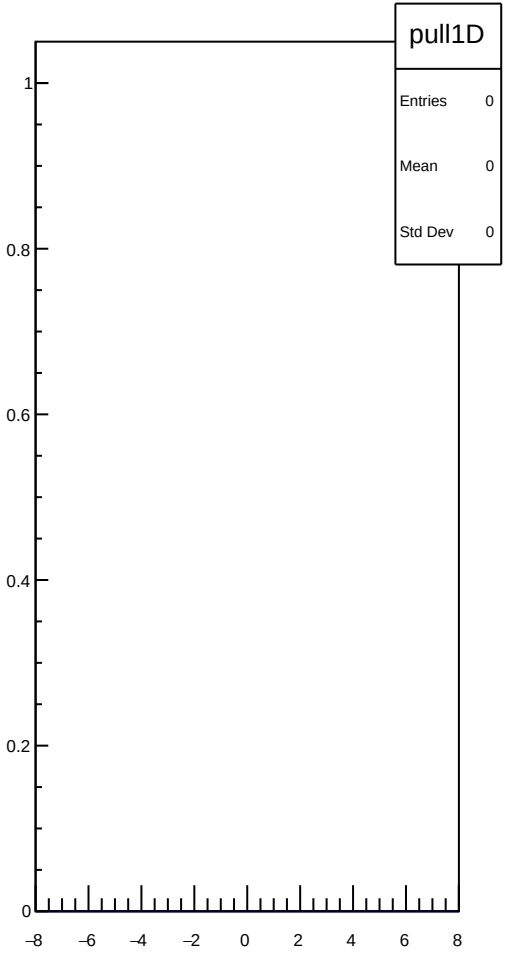

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

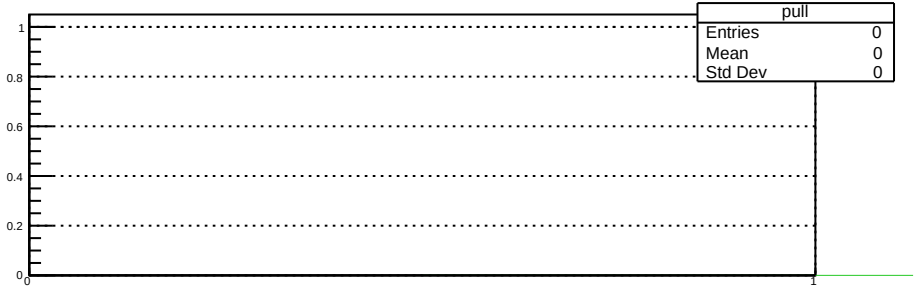

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

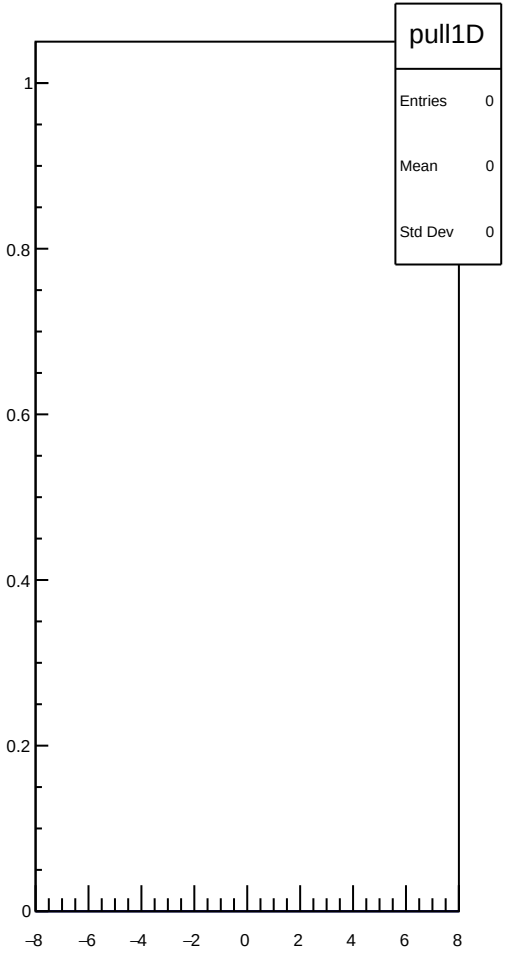

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

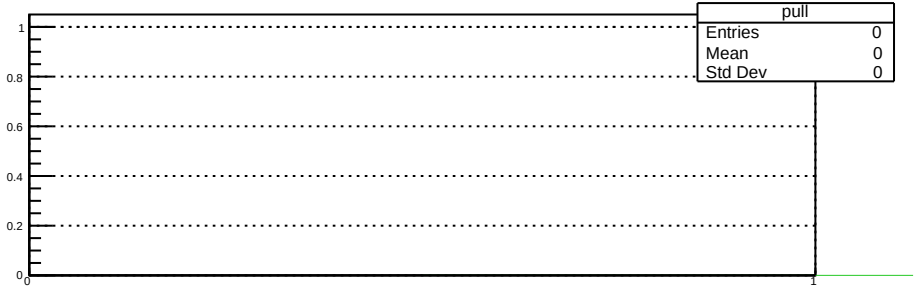

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

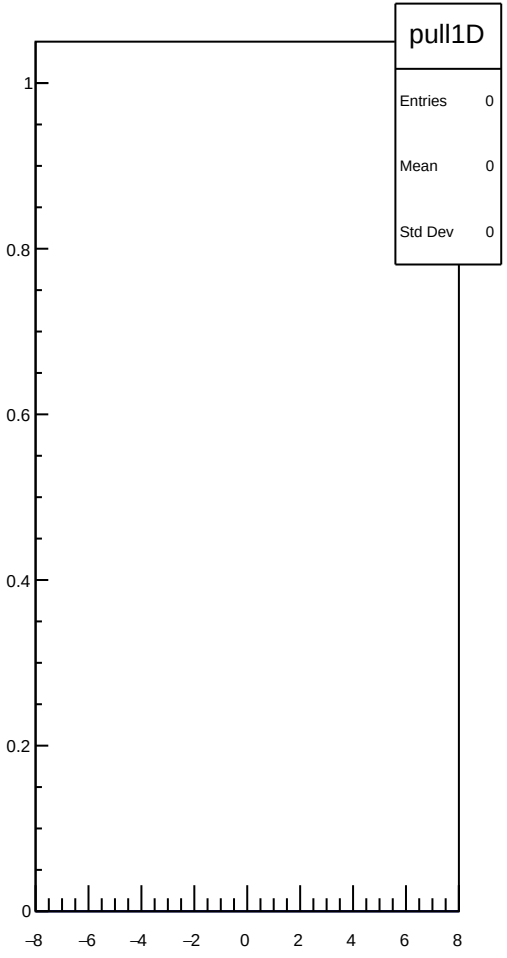

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

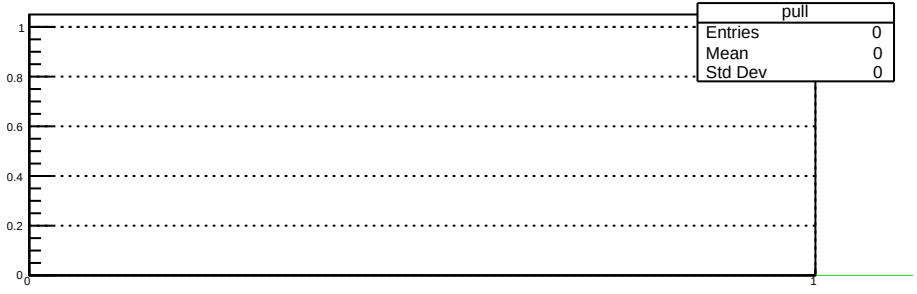

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

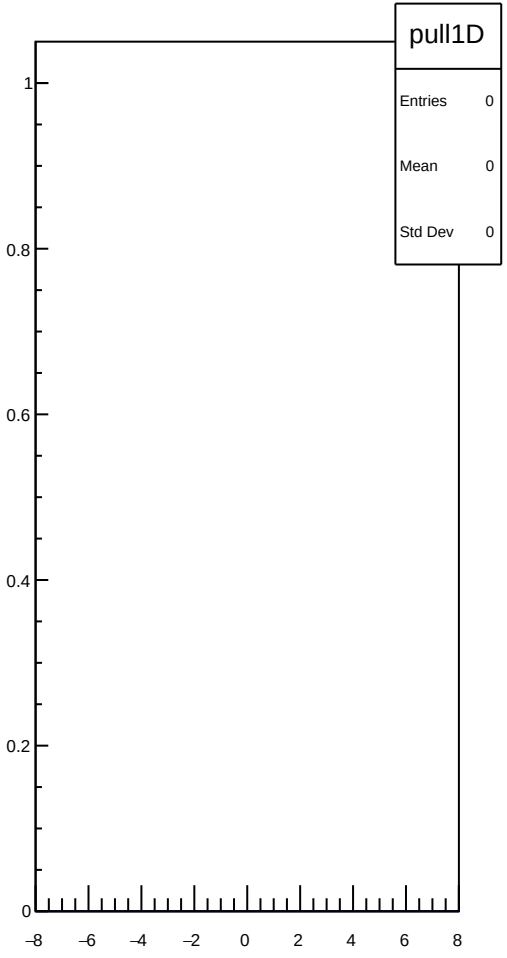

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

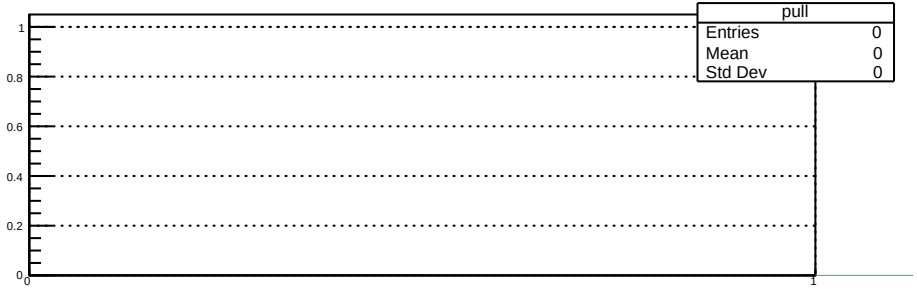

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

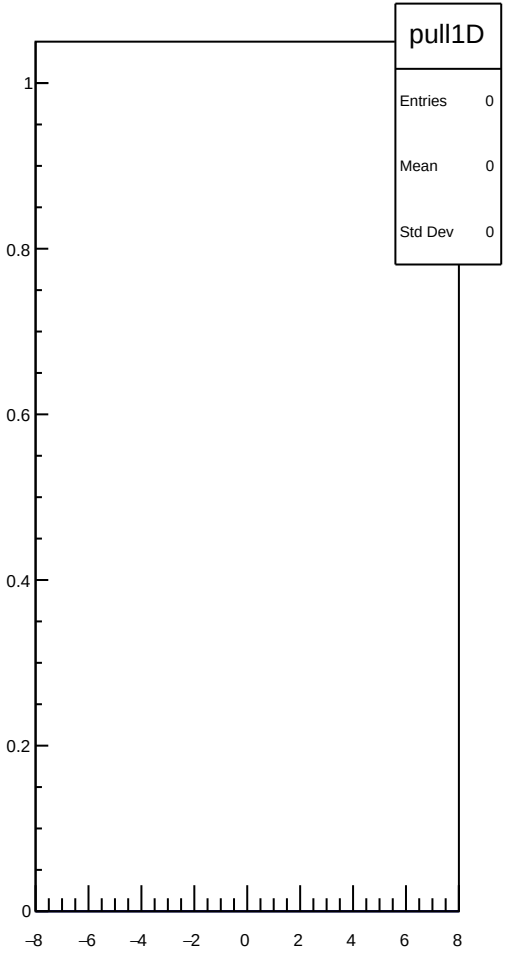

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

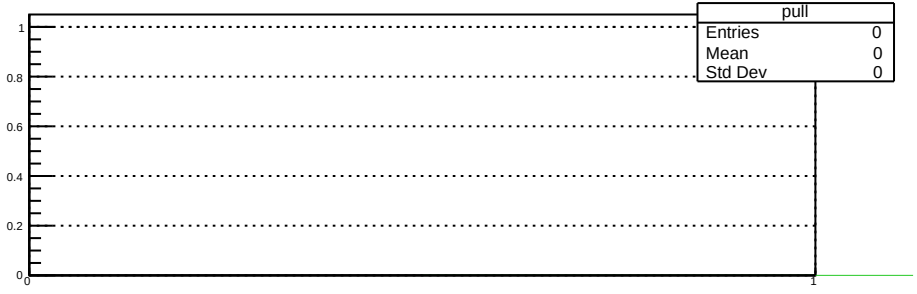

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

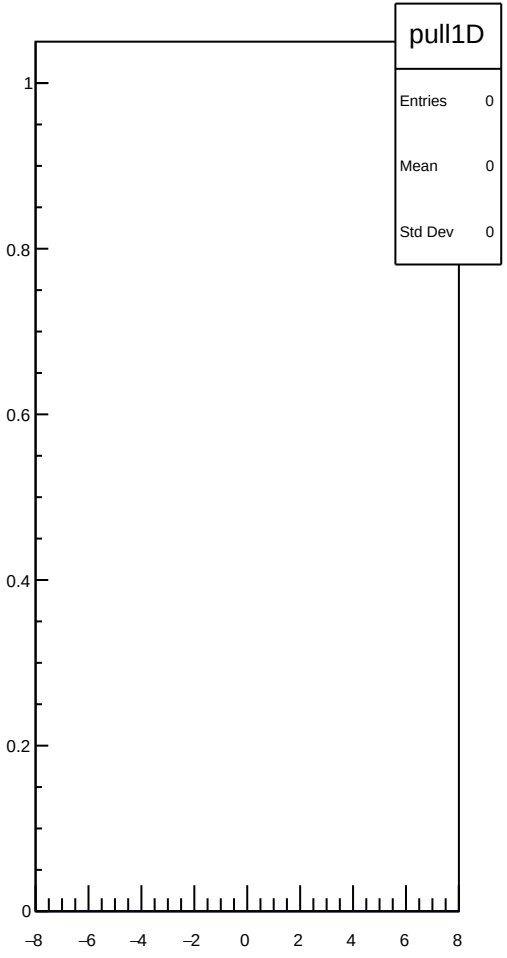

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

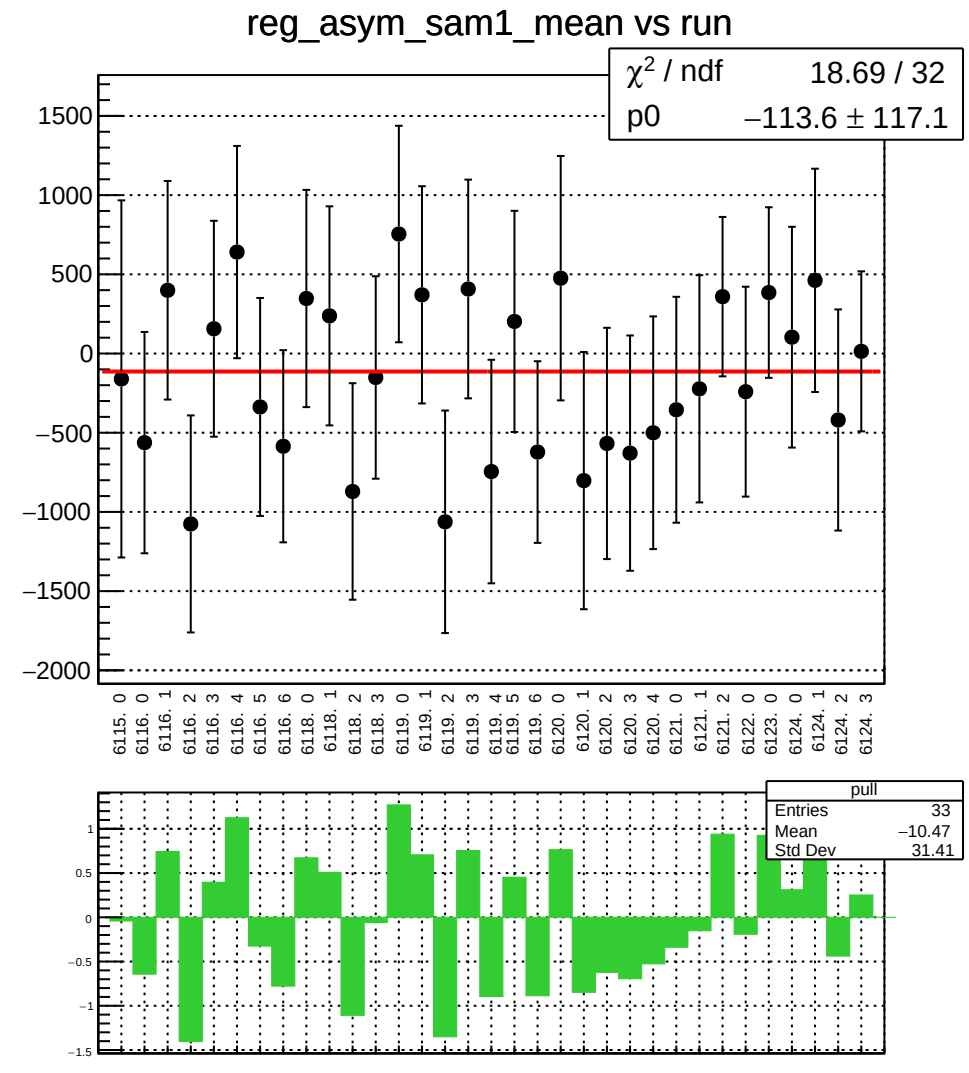

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

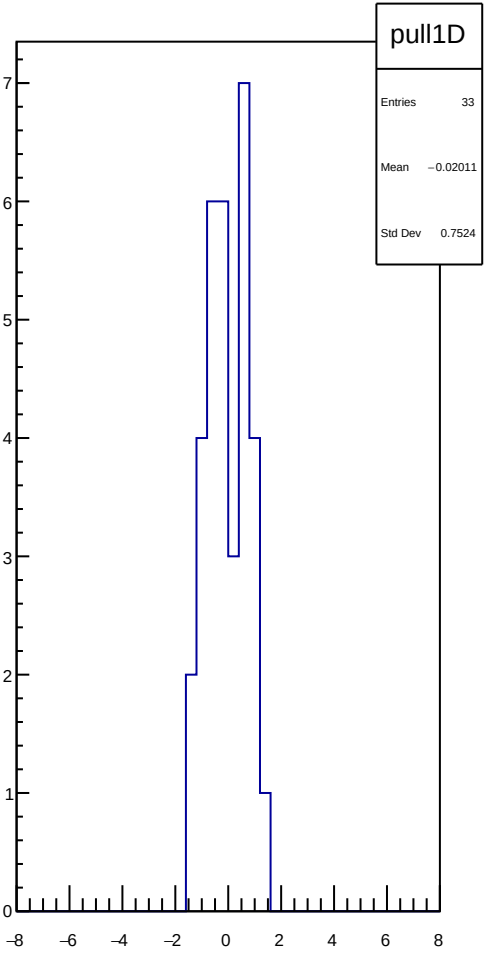

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

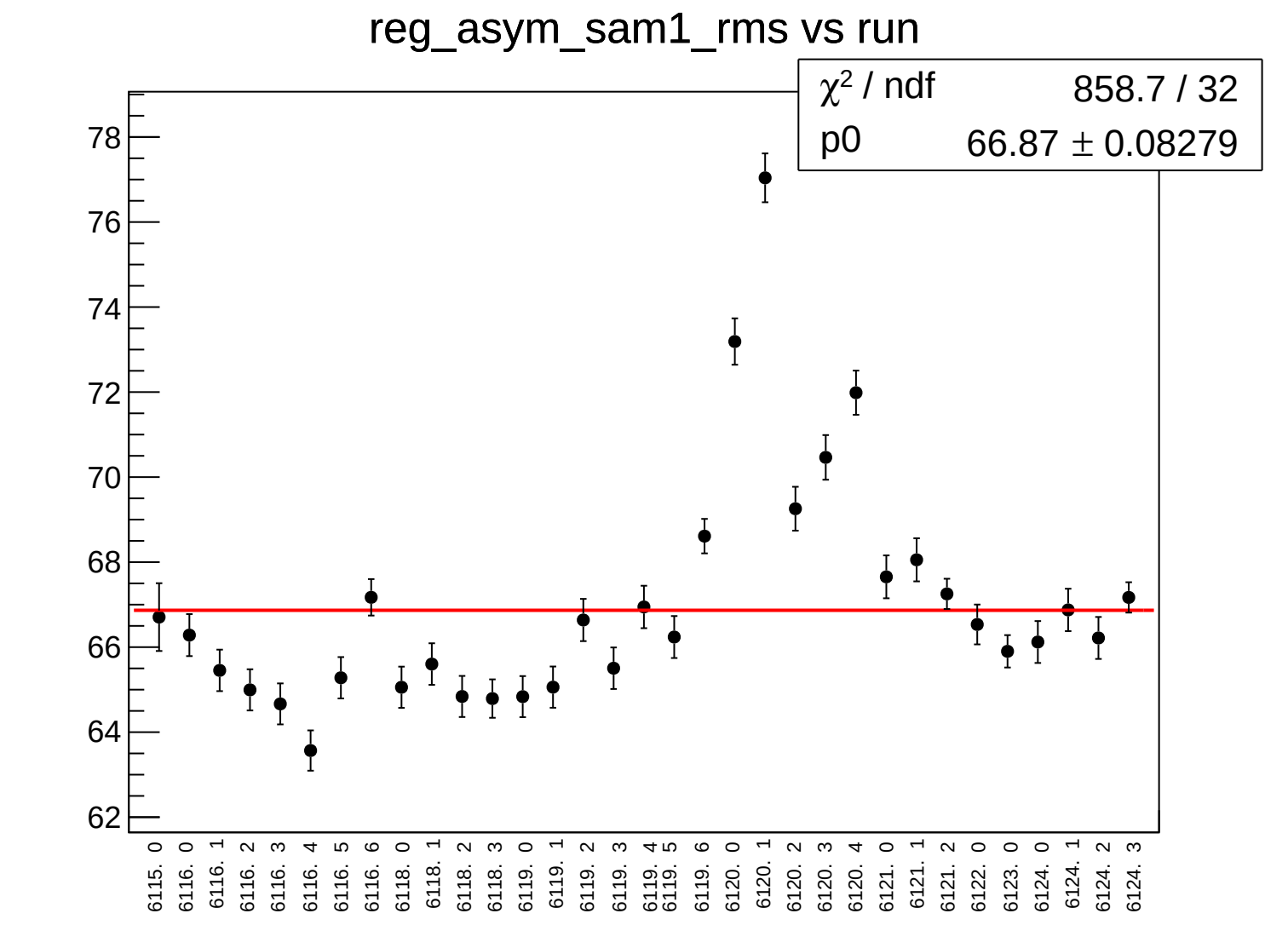

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

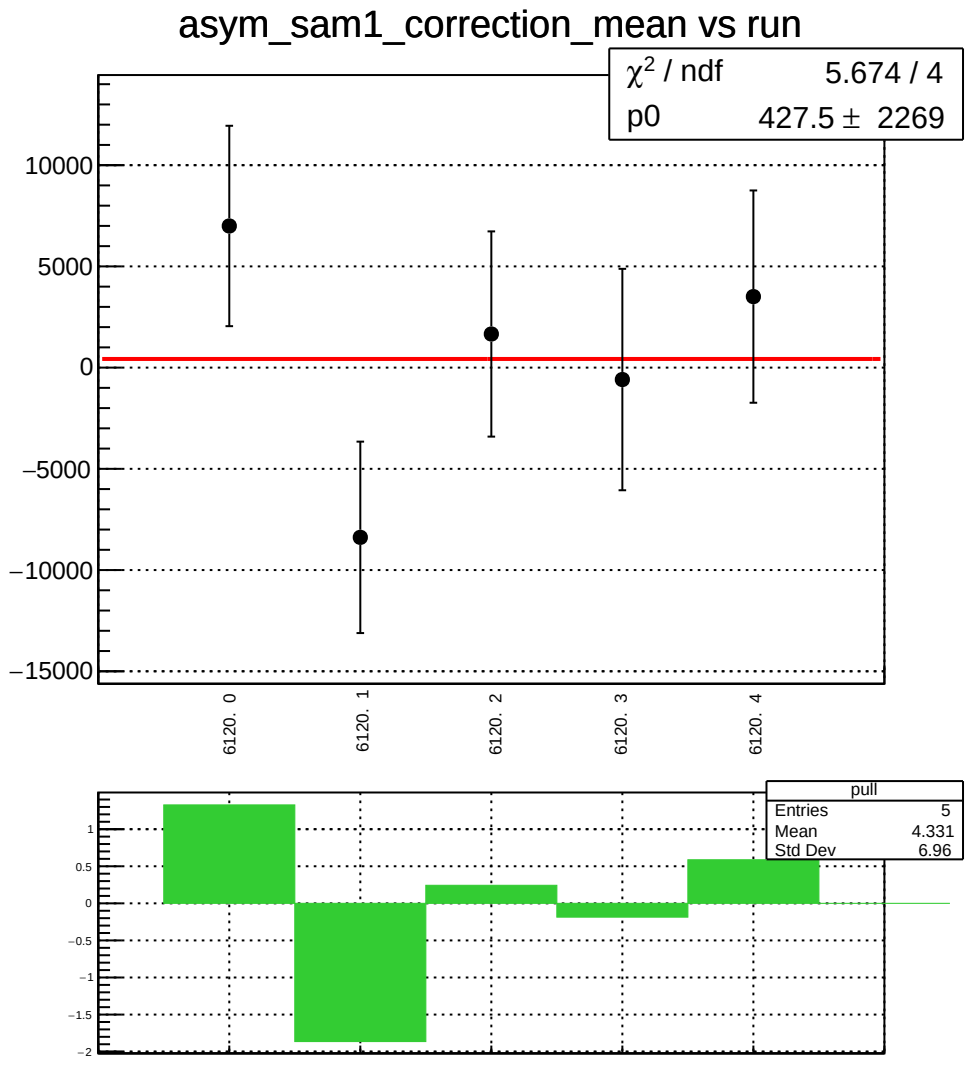

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

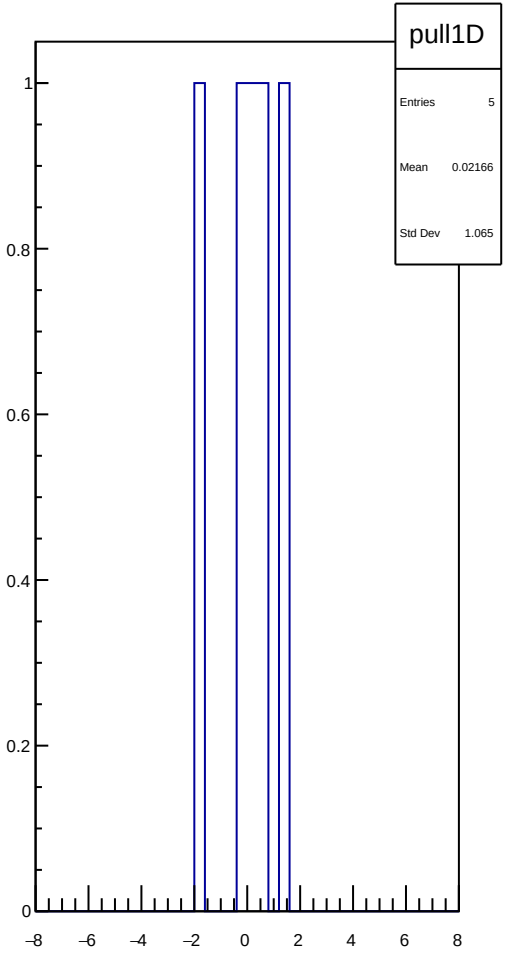

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

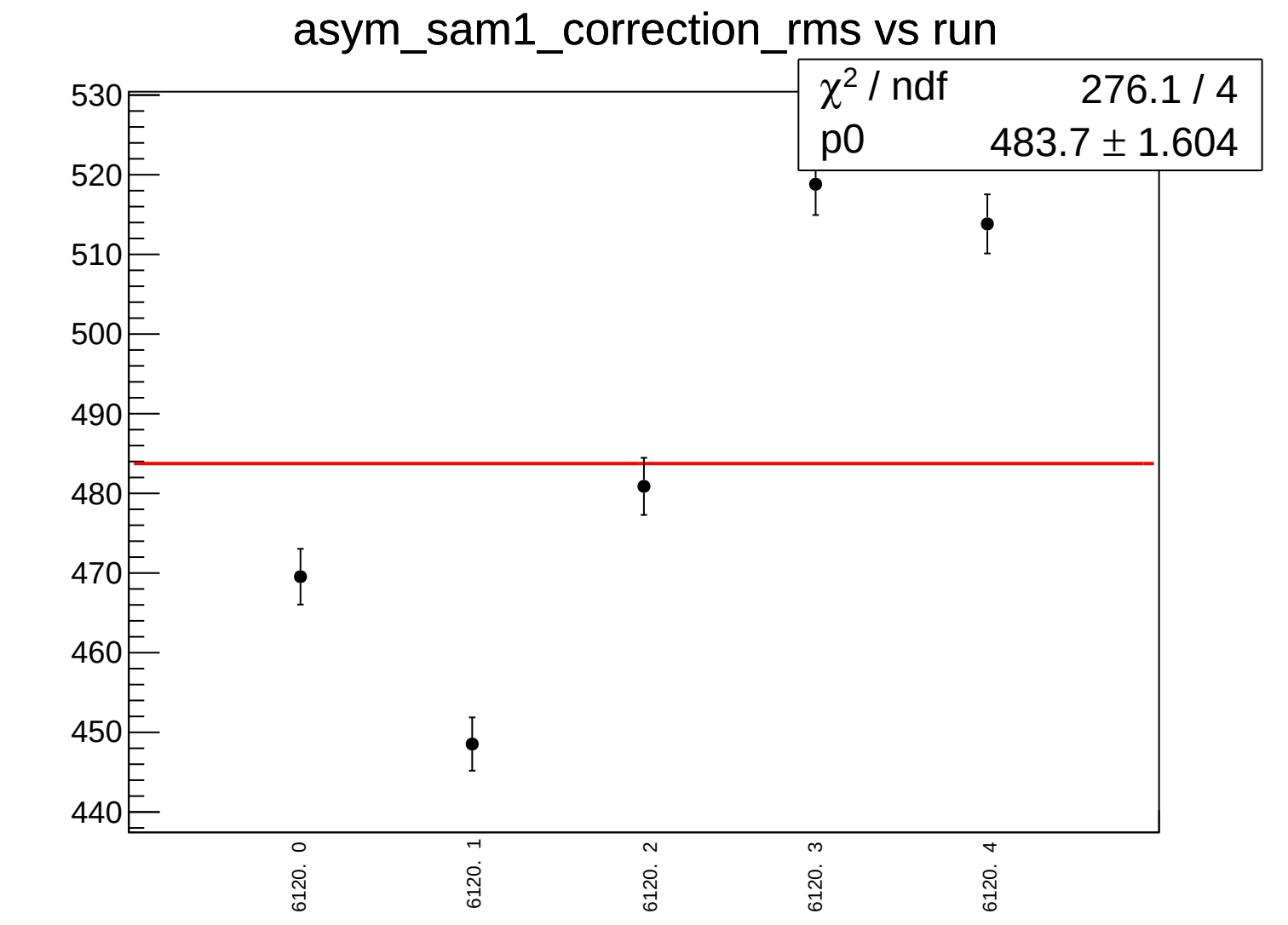

reg_asym_sam1_mean vs run
χ² / ndf 18.69 / 32
p0 −113.6 ± 117.1
1500
1000
500
0
−500
−1000
−1500
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −10.47
Std Dev 31.41
1
0.5
0
−0.5
−1
−1.5

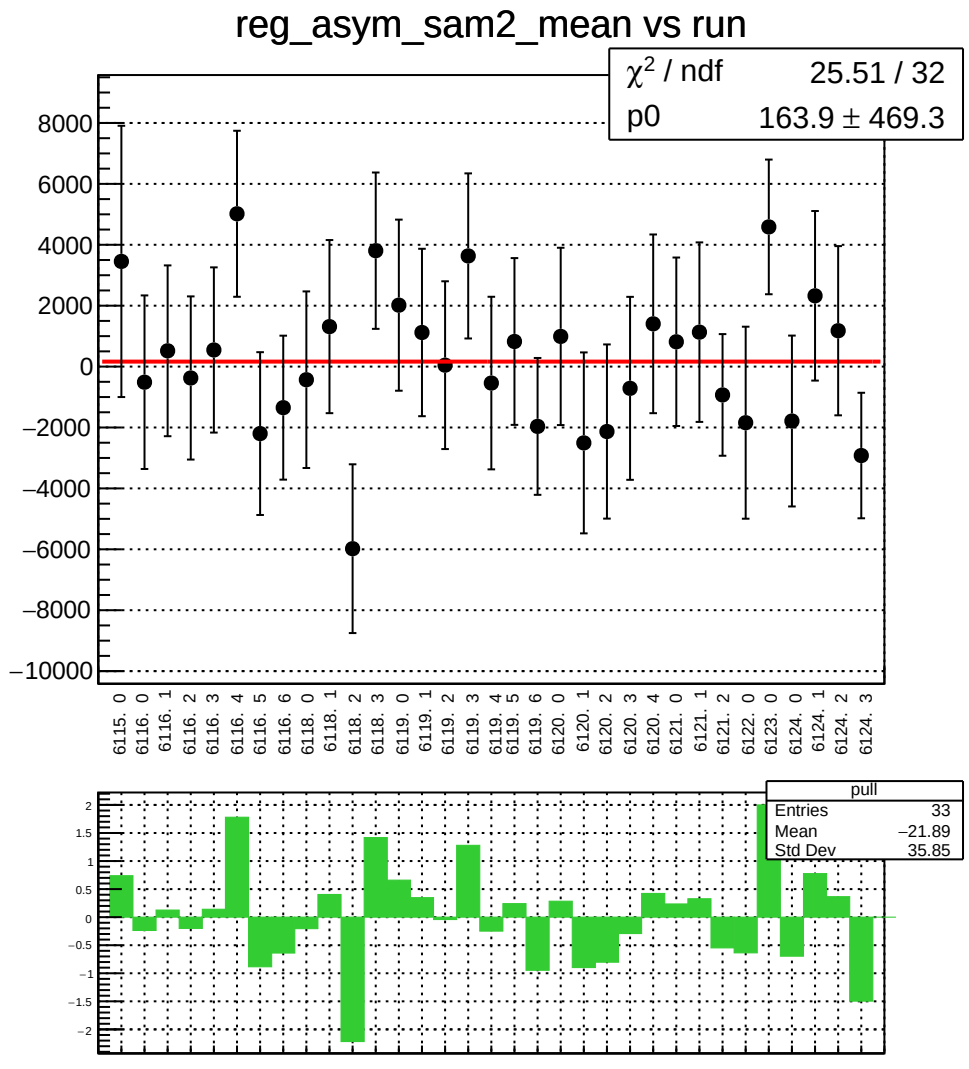

pull1D
Entries 33
Mean −0.02011
Std Dev 0.7524
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

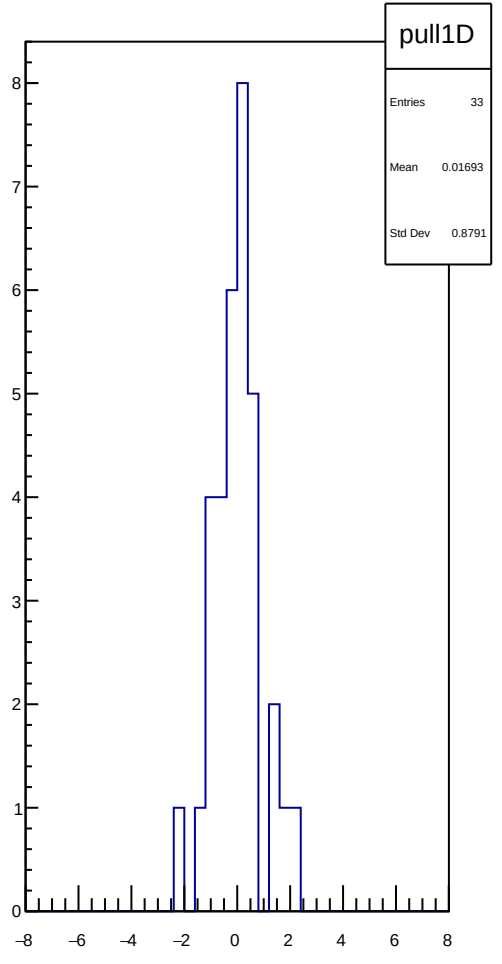

reg_asym_sam1_rms vs run
χ² / ndf 858.7 / 32
p0 66.87 ± 0.08279
78
76
74
72
70
68
66
64
62
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

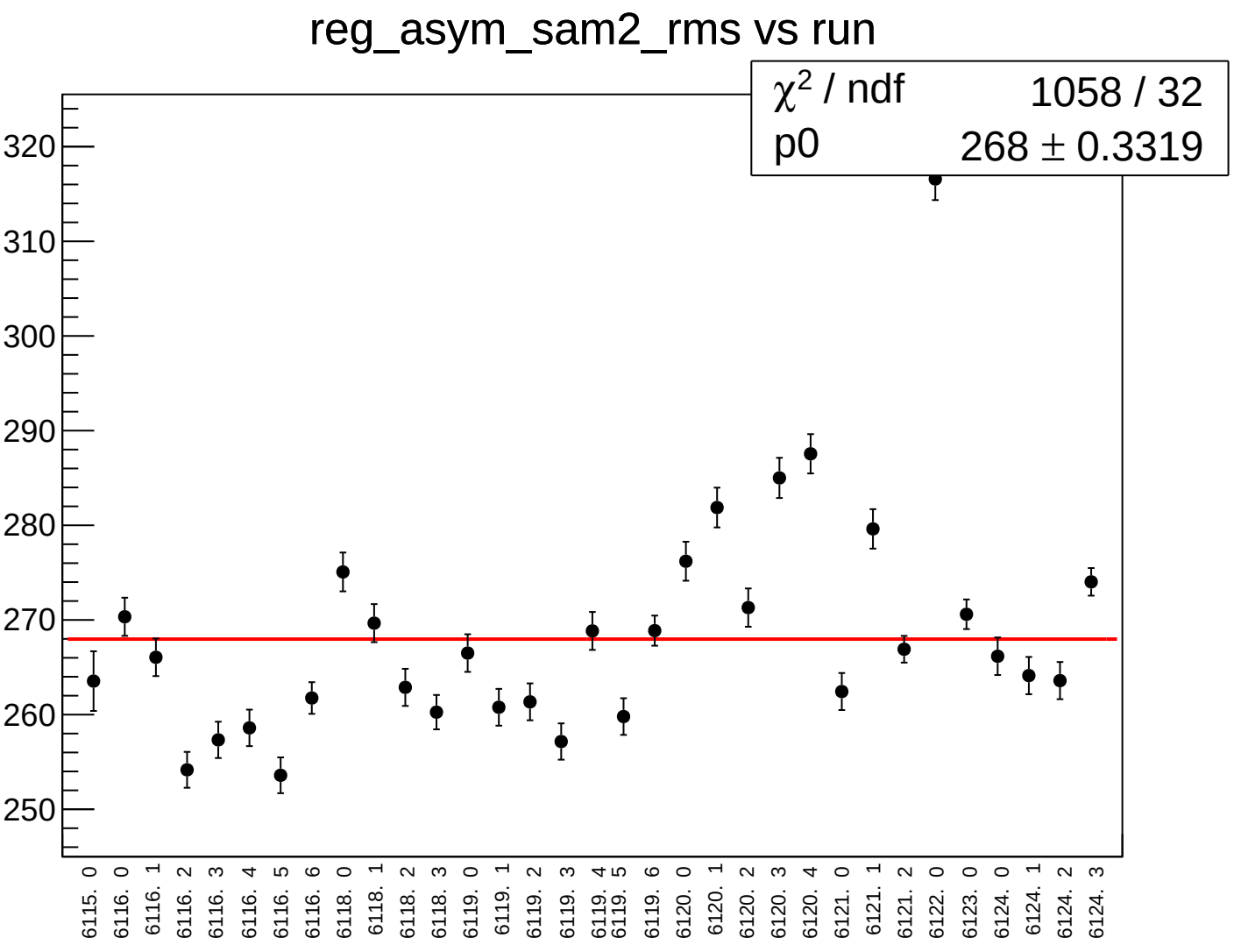

asym_sam1_correction_mean vs run
χ² / ndf 5.674 / 4
p0 427.5 ± 2269
10000
5000
0
−5000
−10000
−15000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 4.331
Std Dev 6.96
1
0.5
0
−0.5
−1
−1.5
−2

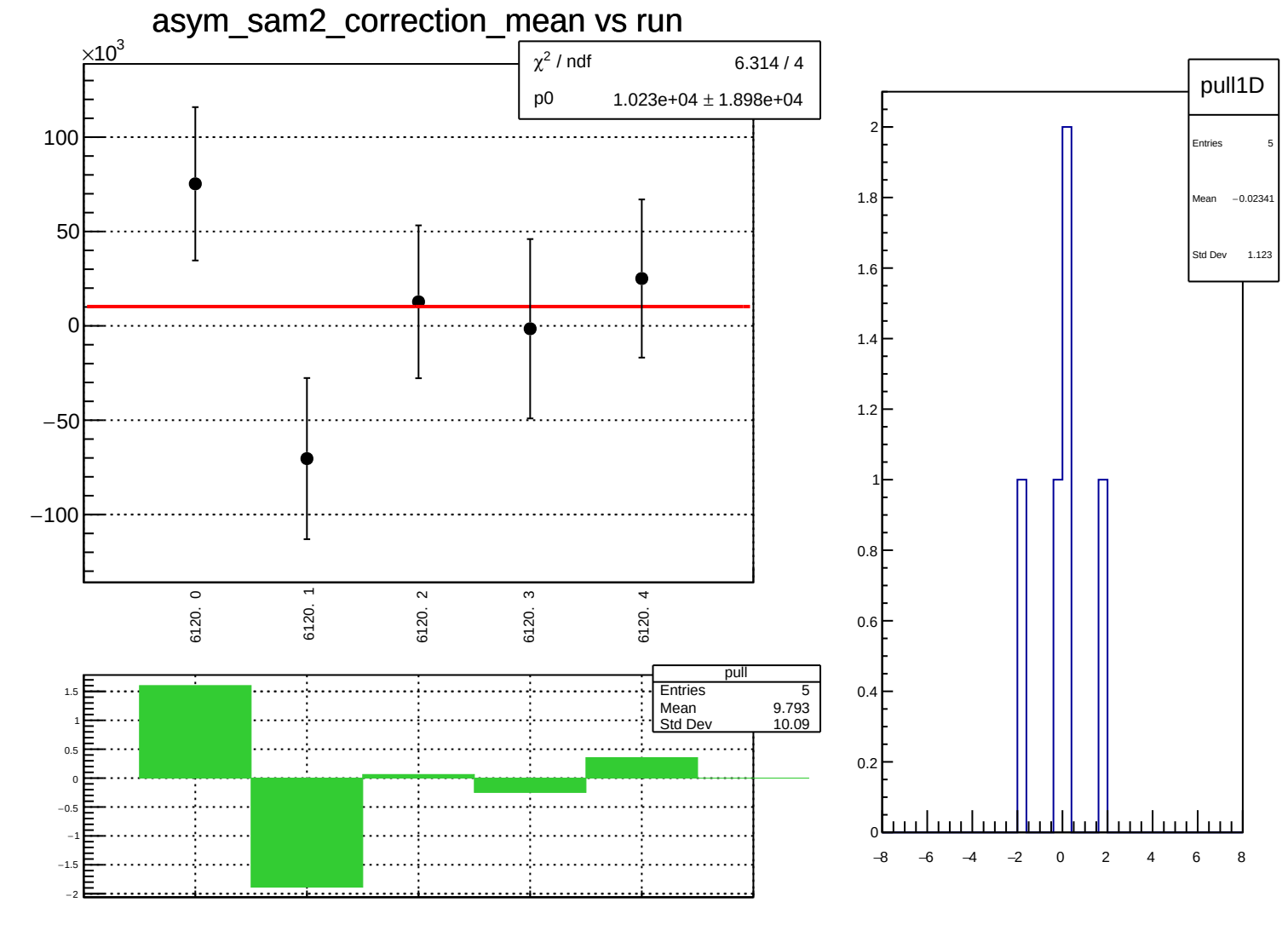

pull1D
Entries 5
Mean 0.02166
Std Dev 1.065
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

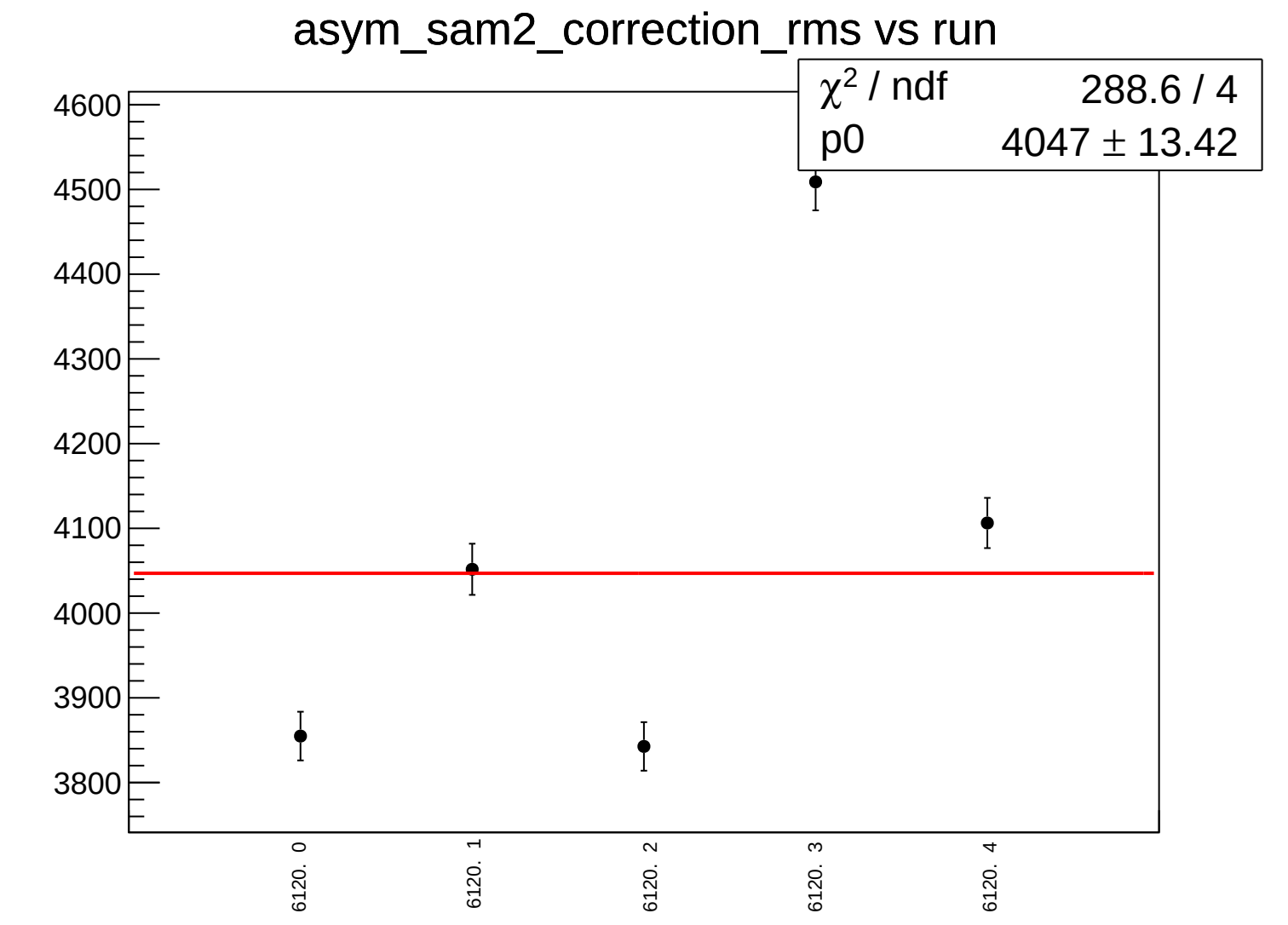

asym_sam1_correction_rms vs run
χ² / ndf 276.1 / 4
p0 483.7 ± 1.604
530
520
510
500
490
480
470
460
450
440
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

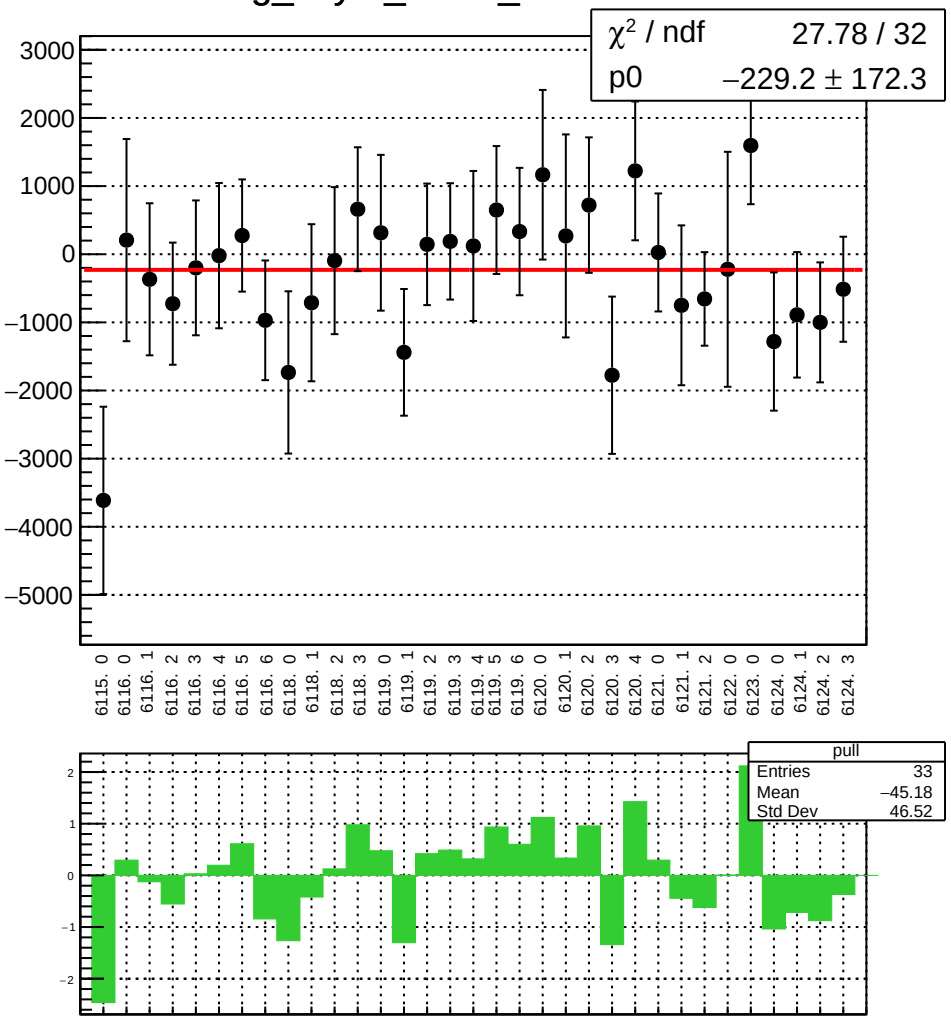

reg_asym_sam2_mean vs run
χ² / ndf 25.51 / 32
p0 163.9 ± 469.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −21.89
Std Dev 35.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

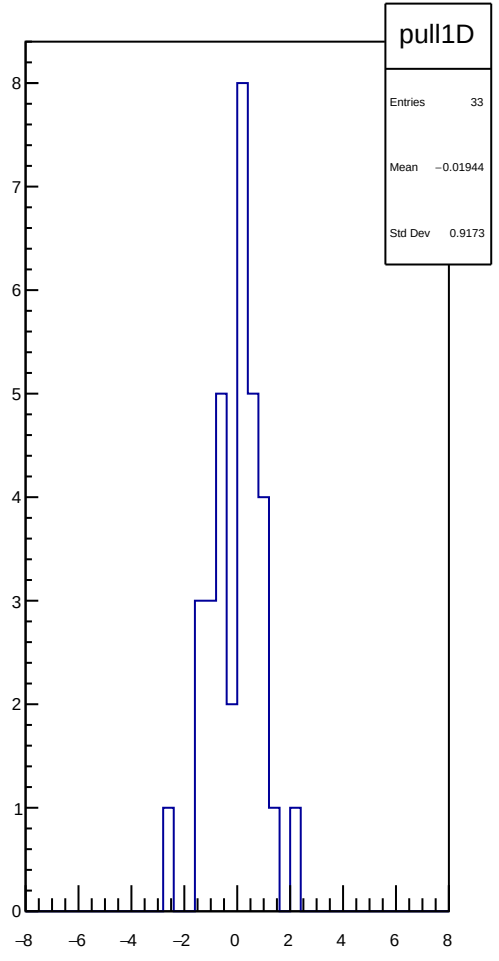

pull1D
Entries 33
Mean 0.01693
Std Dev 0.8791
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

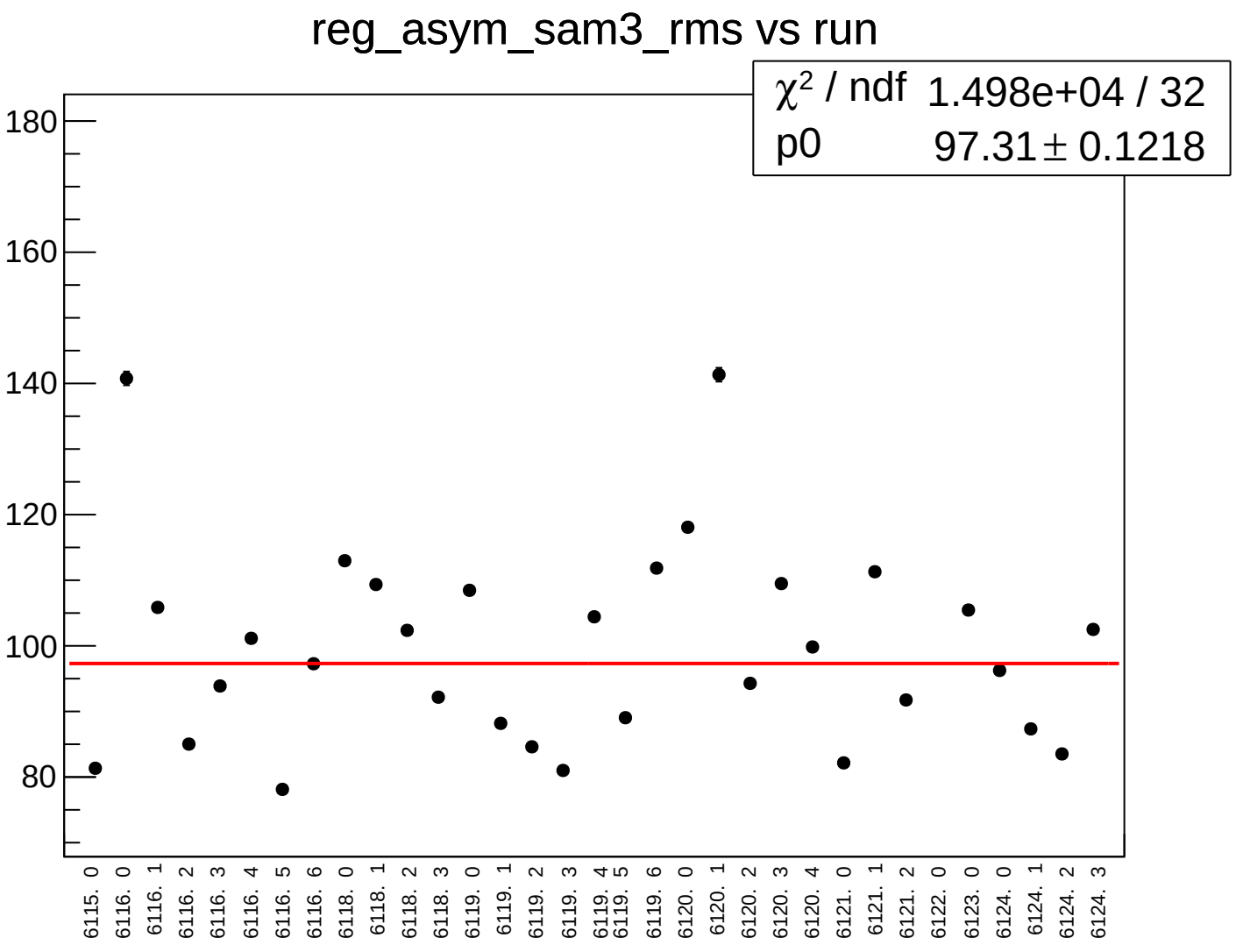

reg_asym_sam2_rms vs run
χ² / ndf 1058 / 32
p0 268 ± 0.3319
320
310
300
290
280
270
260
250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

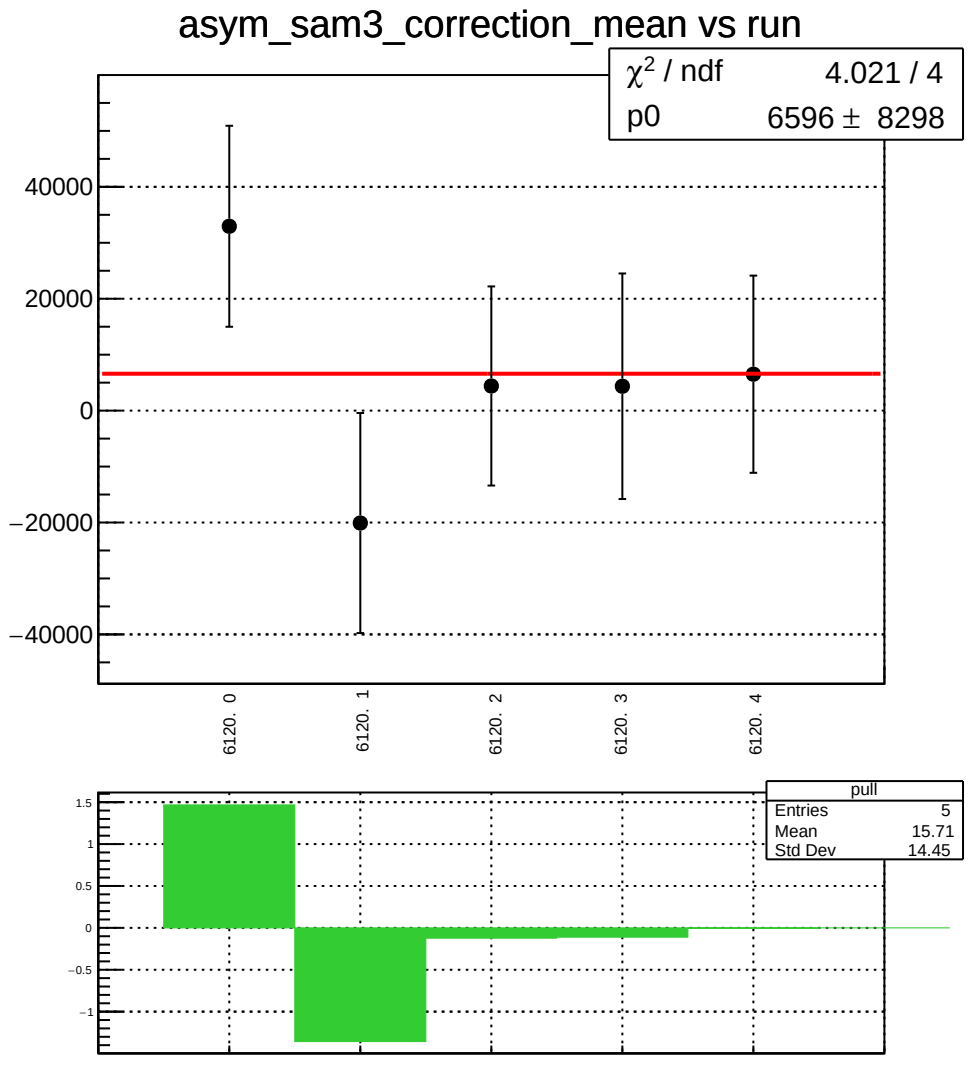

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 6.314 / 4
p0 1.023e+04 ± 1.898e+04
100
50
0
−50
−100
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 9.793
Std Dev 10.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 5
Mean −0.02341
Std Dev 1.123
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

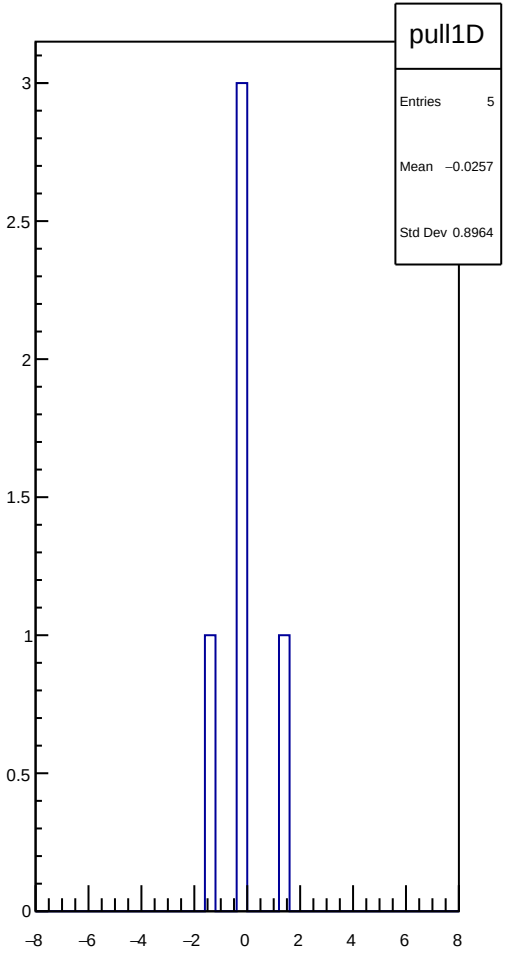

asym_sam2_correction_rms vs run
χ² / ndf 288.6 / 4
p0 4047 ± 13.42
4600
4500
4400
4300
4200
4100
4000
3900
3800
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

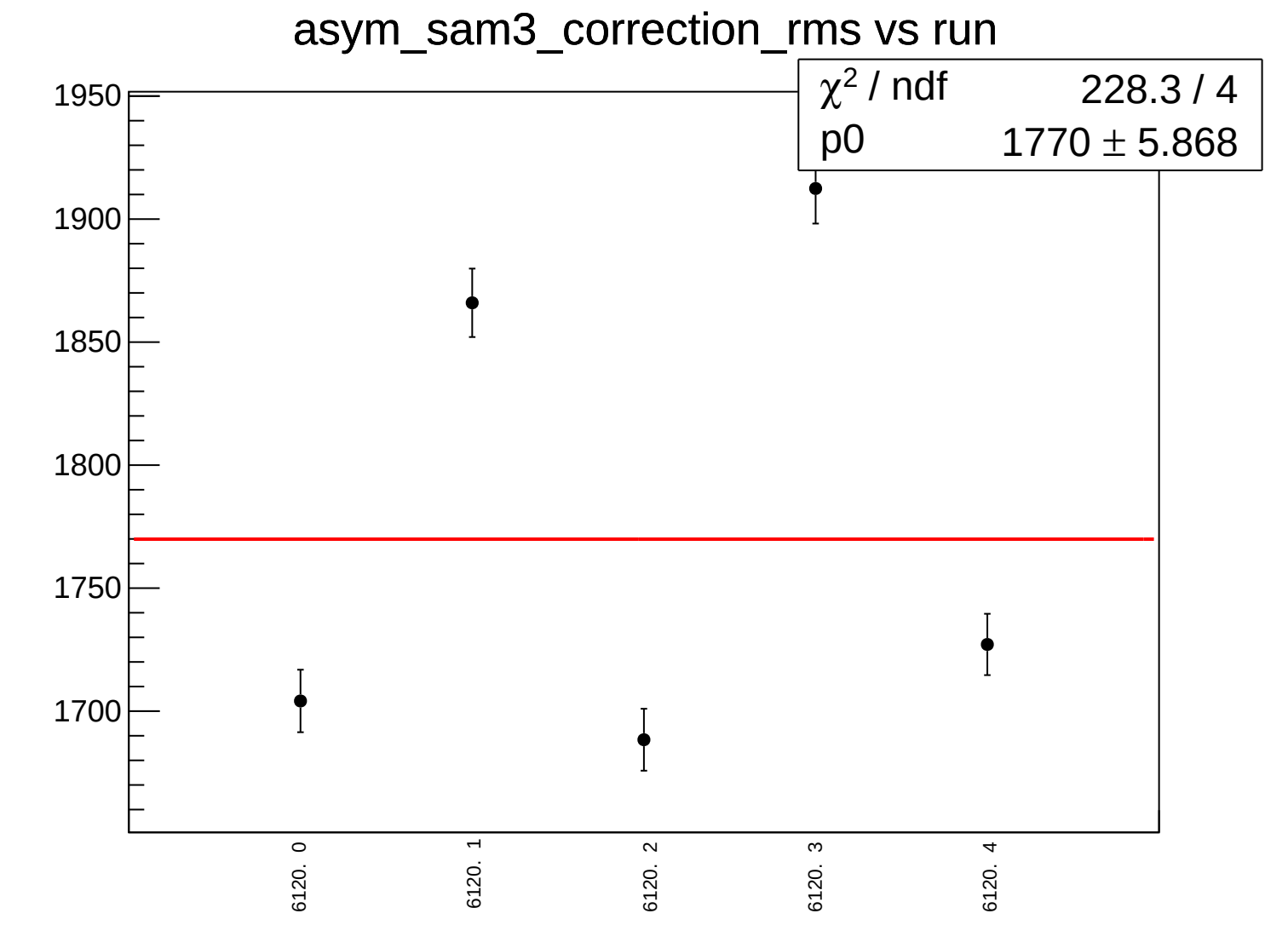

reg_asym_sam3_mean vs run
χ² / ndf 27.78 / 32
p0 −229.2 ± 172.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −45.18
Std Dev 46.52
2
1
0
−1
−2

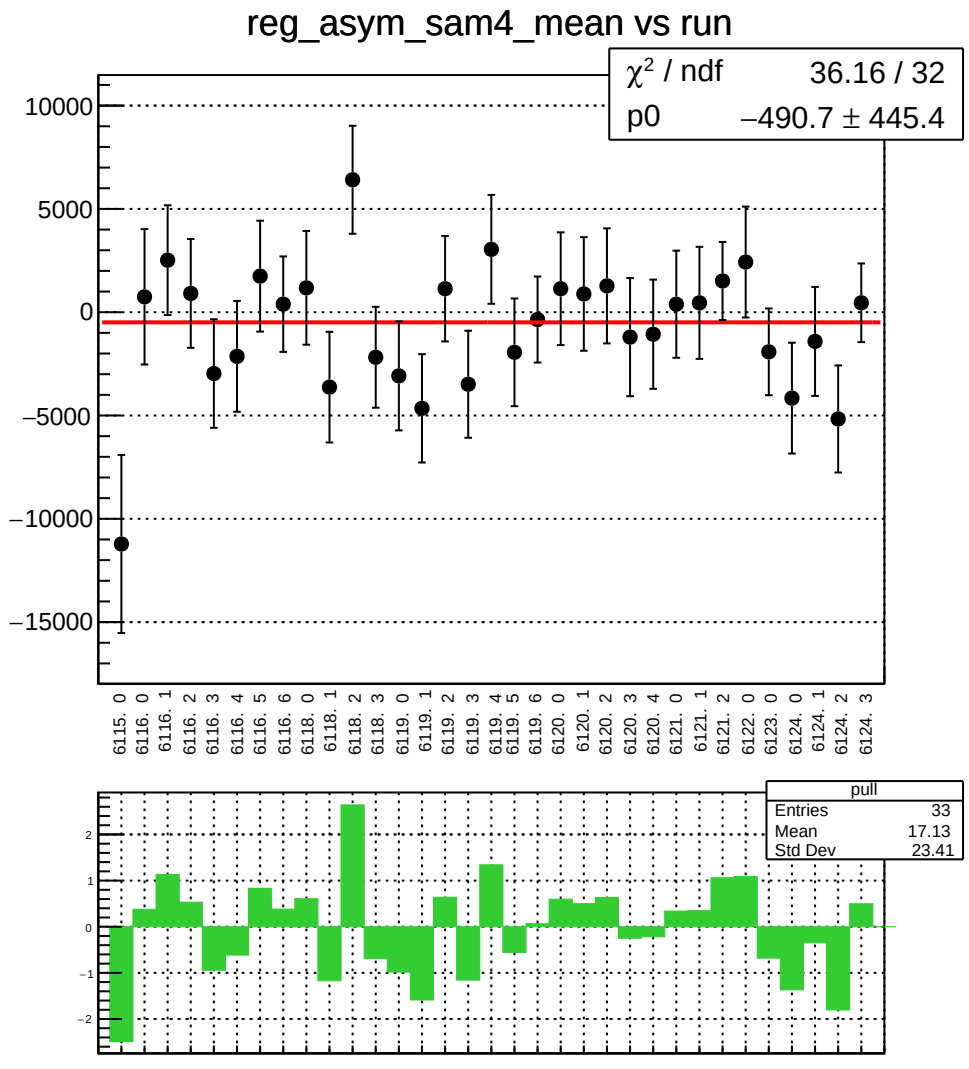

pull1D
Entries 33
Mean −0.01944
Std Dev 0.9173
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

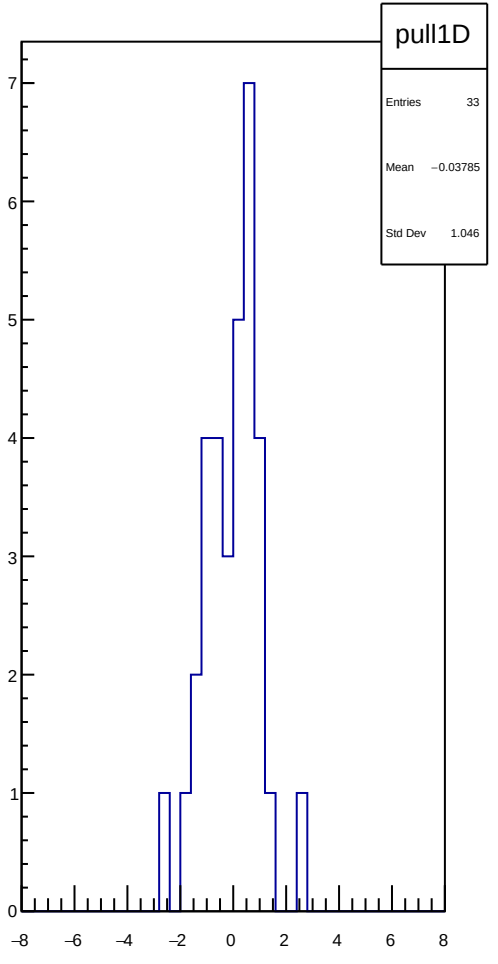

reg_asym_sam3_rms vs run
χ² / ndf 1.498e+04 / 32
p0 97.31 ± 0.1218
180
160
140
120
100
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

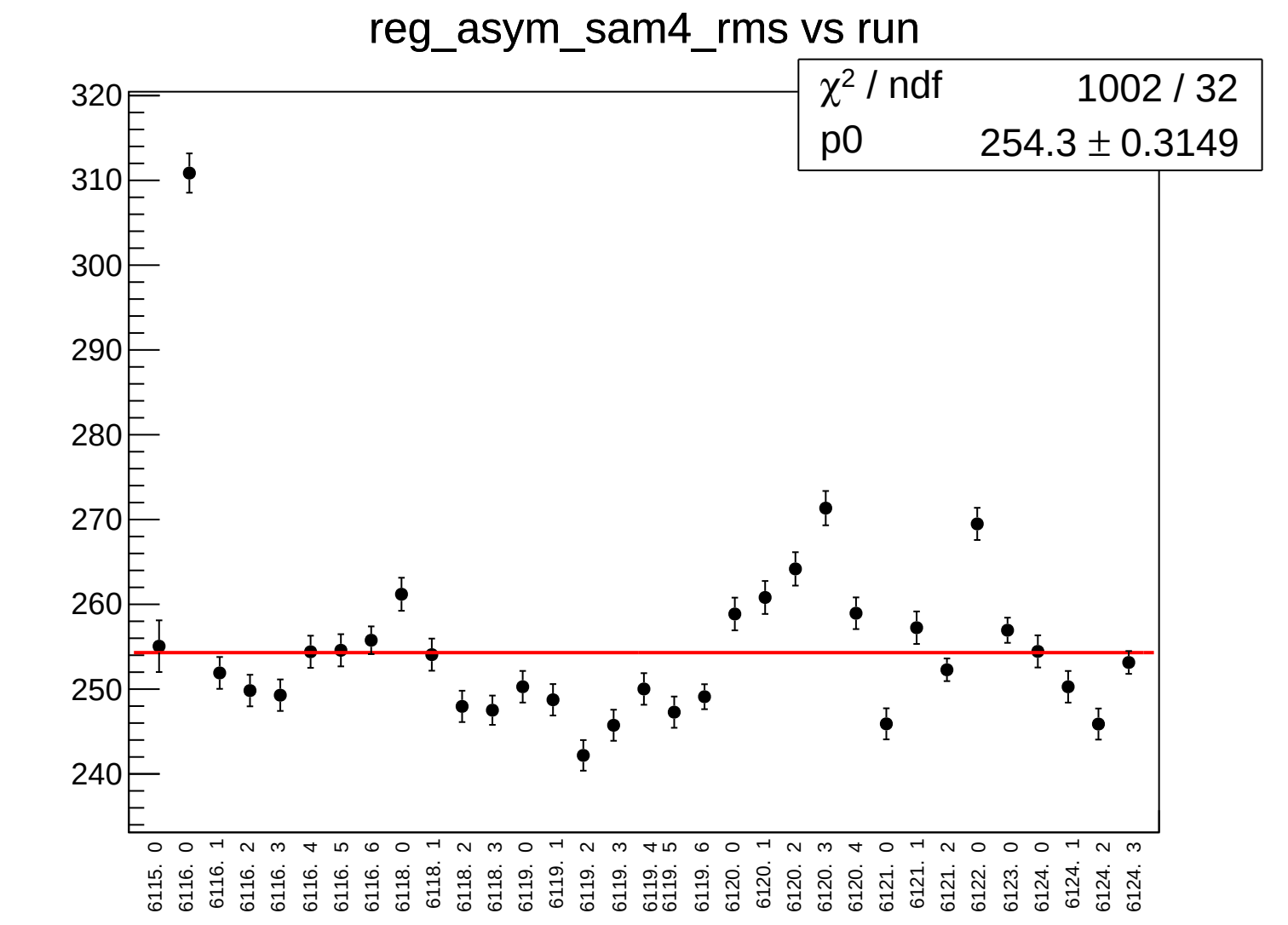

asym_sam3_correction_mean vs run
χ² / ndf 4.021 / 4
p0 6596 ± 8298
40000
20000
0
−20000
−40000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 15.71
Std Dev 14.45
1.5
1
0.5
0
−0.5
−1

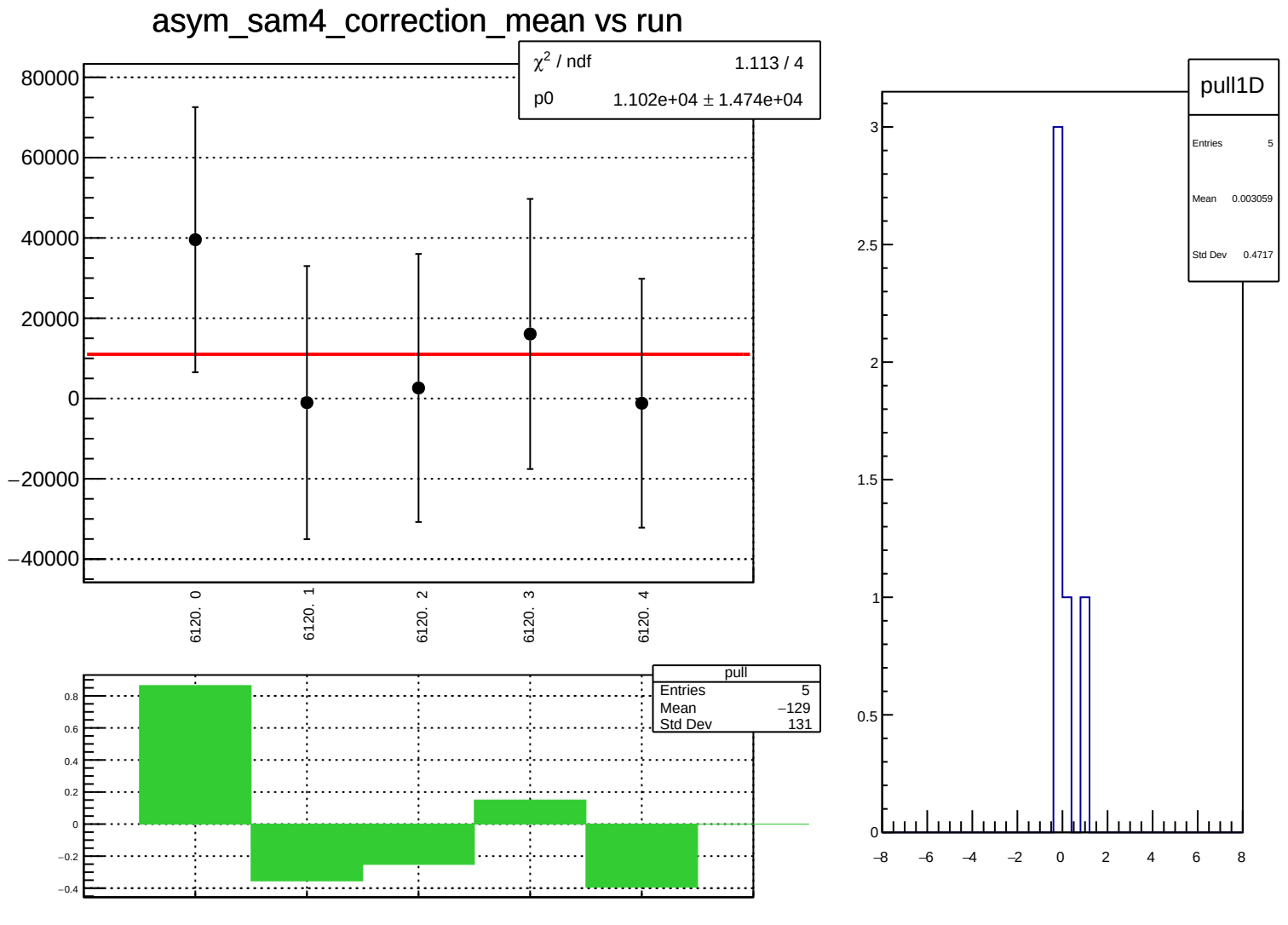

pull1D
Entries 5
Mean −0.0257
Std Dev 0.8964
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

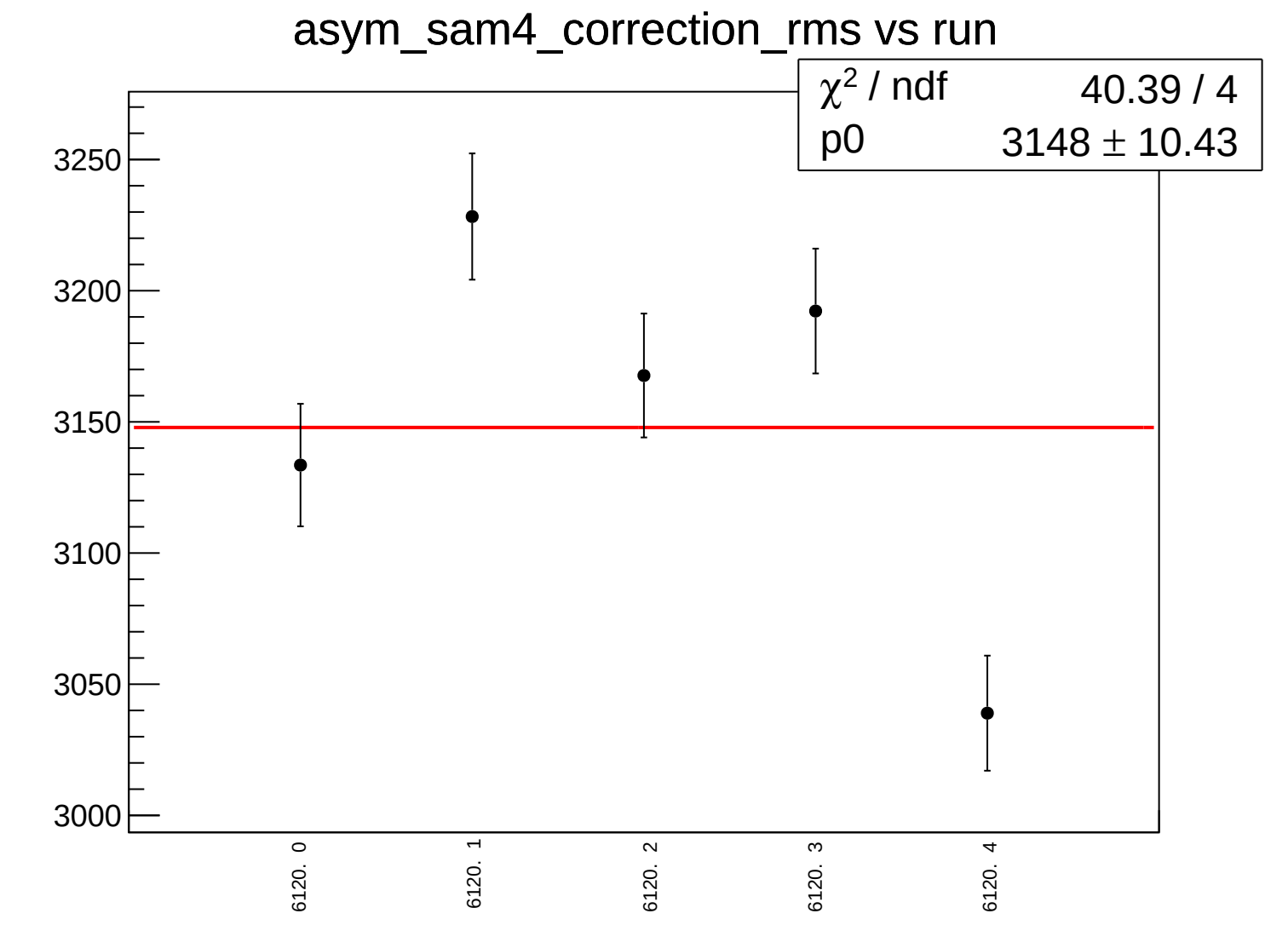

asym_sam3_correction_rms vs run
χ² / ndf 228.3 / 4
p0 1770 ± 5.868
1950
1900
1850
1800
1750
1700
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

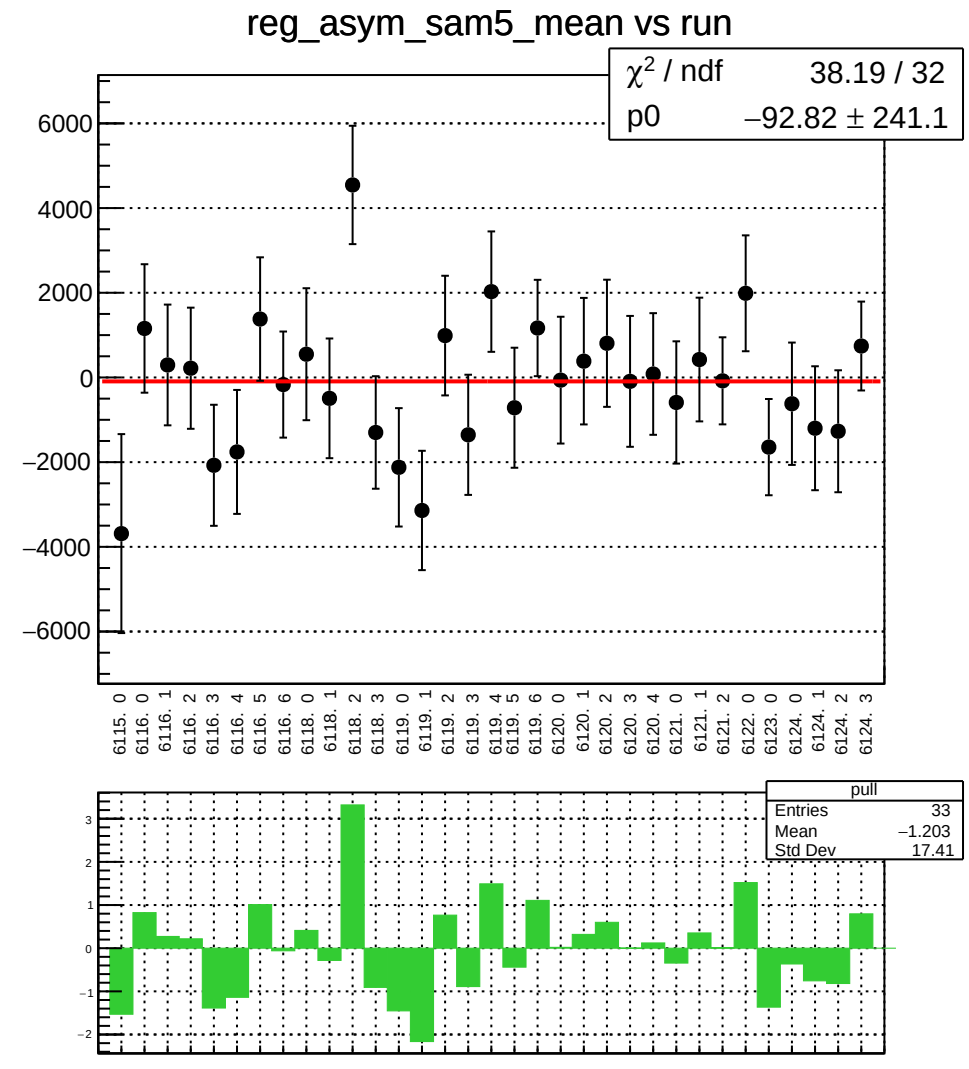

reg_asym_sam4_mean vs run
χ² / ndf 36.16 / 32
p0 −490.7 ± 445.4
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 17.13
Std Dev 23.41
2
1
0
−1
−2

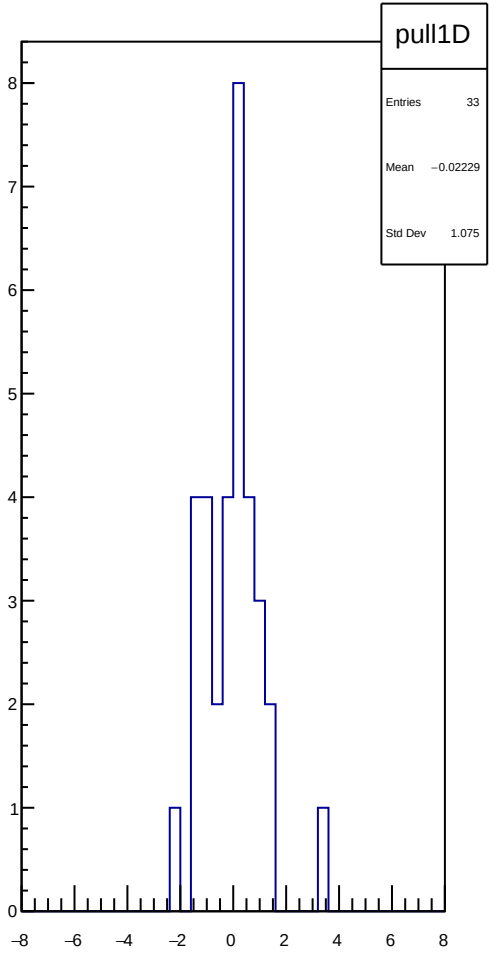

pull1D
Entries 33
Mean −0.03785
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

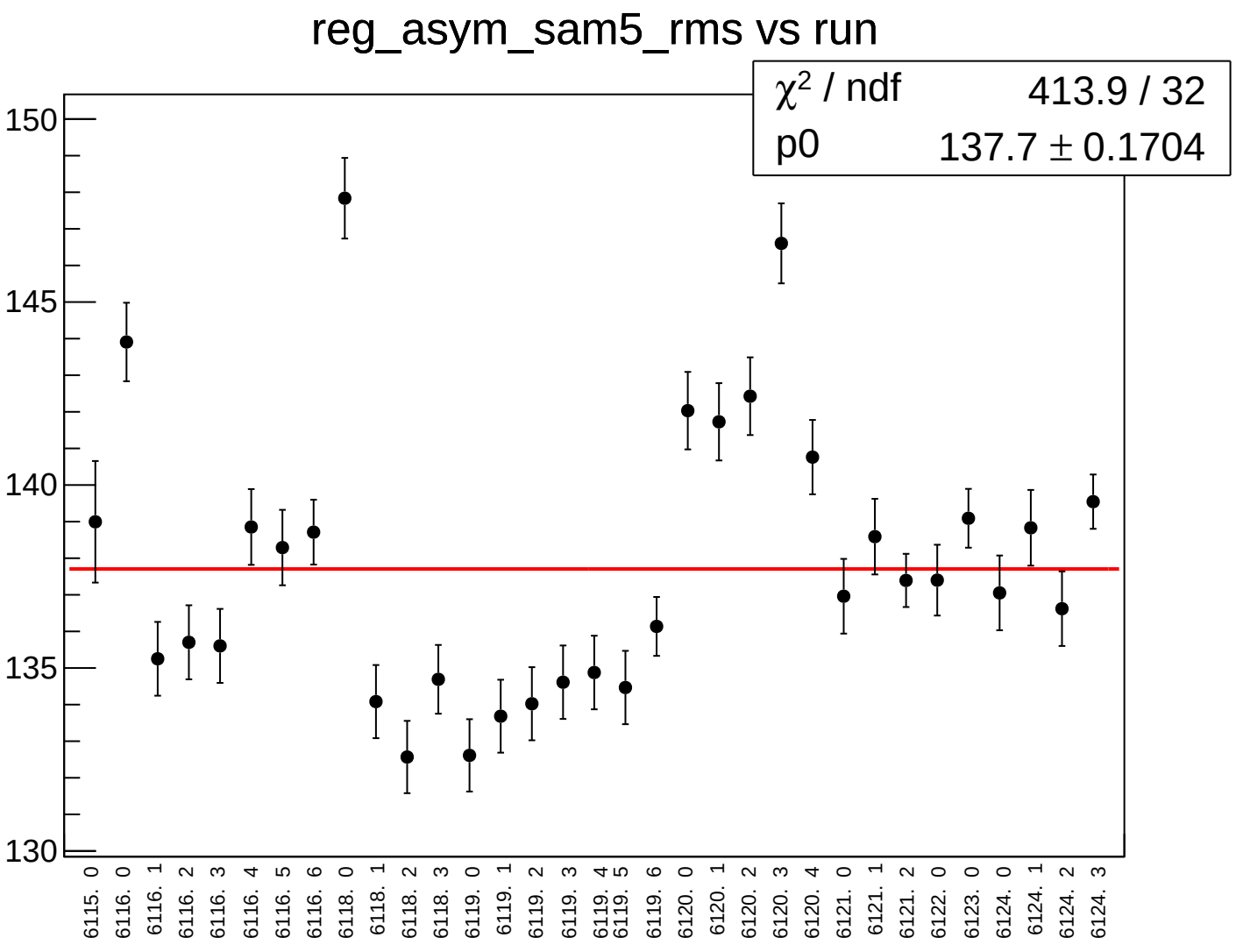

reg_asym_sam4_rms vs run
χ² / ndf 1002 / 32
p0 254.3 ± 0.3149
320
310
300
290
280
270
260
250
240
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

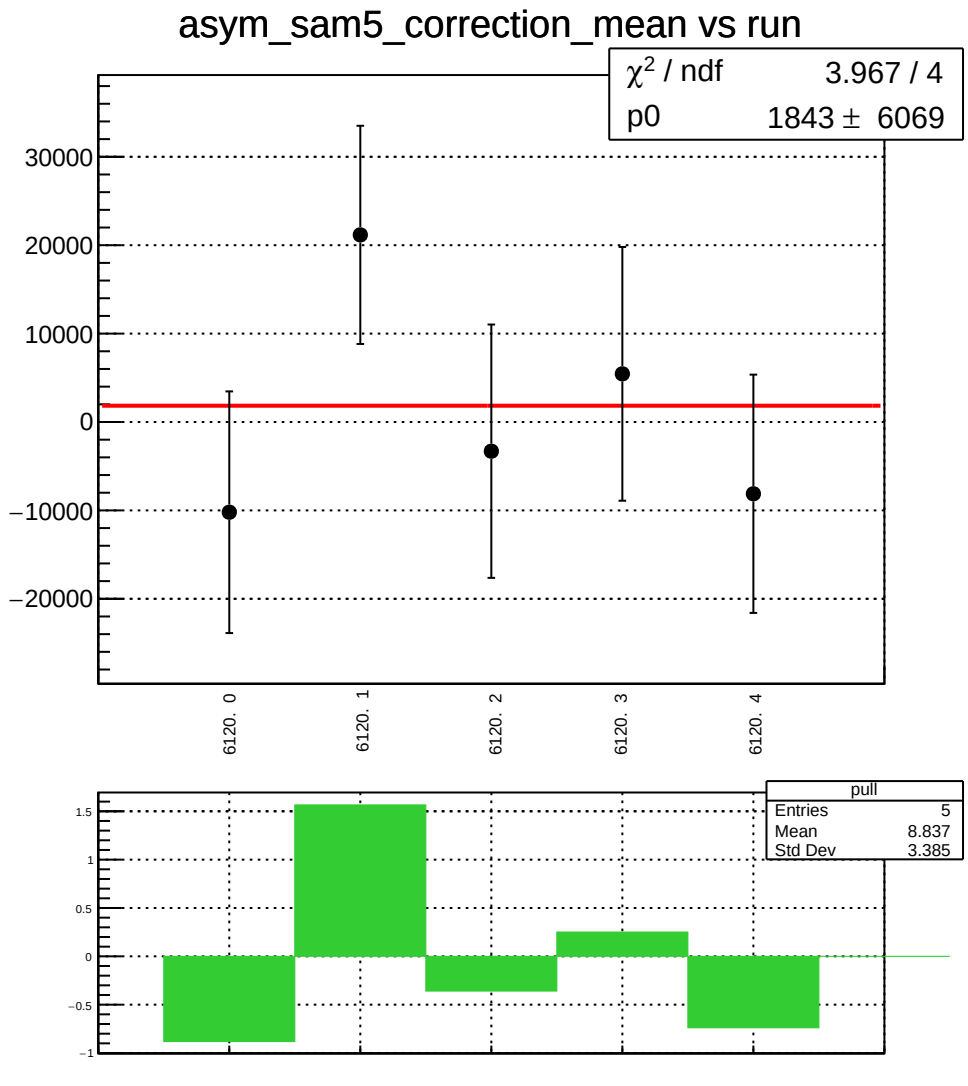

asym_sam4_correction_mean vs run
χ² / ndf 1.113 / 4
p0 1.102e+04 ± 1.474e+04
80000
60000
40000
20000
0
−20000
−40000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean −129
Std Dev 131
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 5
Mean 0.003059
Std Dev 0.4717
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

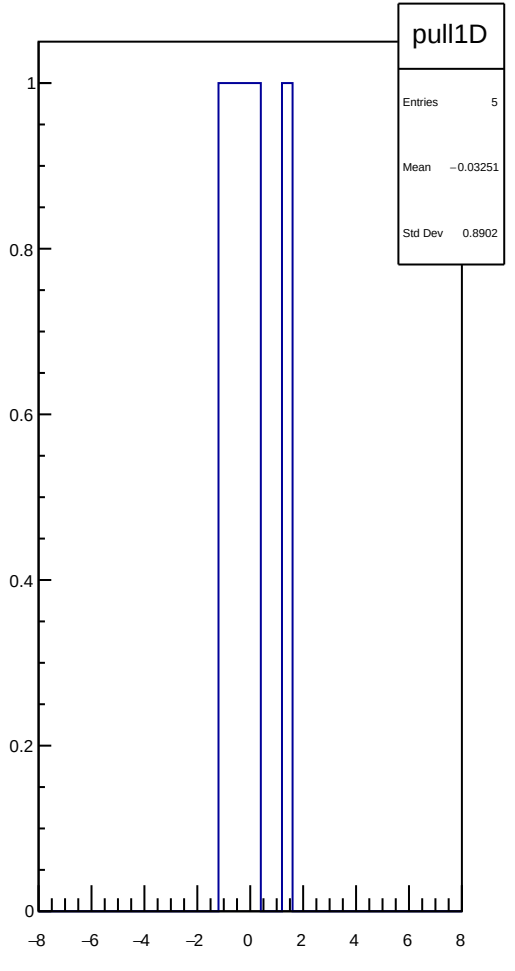

asym_sam4_correction_rms vs run
χ² / ndf 40.39 / 4
p0 3148 ± 10.43
3250
3200
3150
3100
3050
3000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

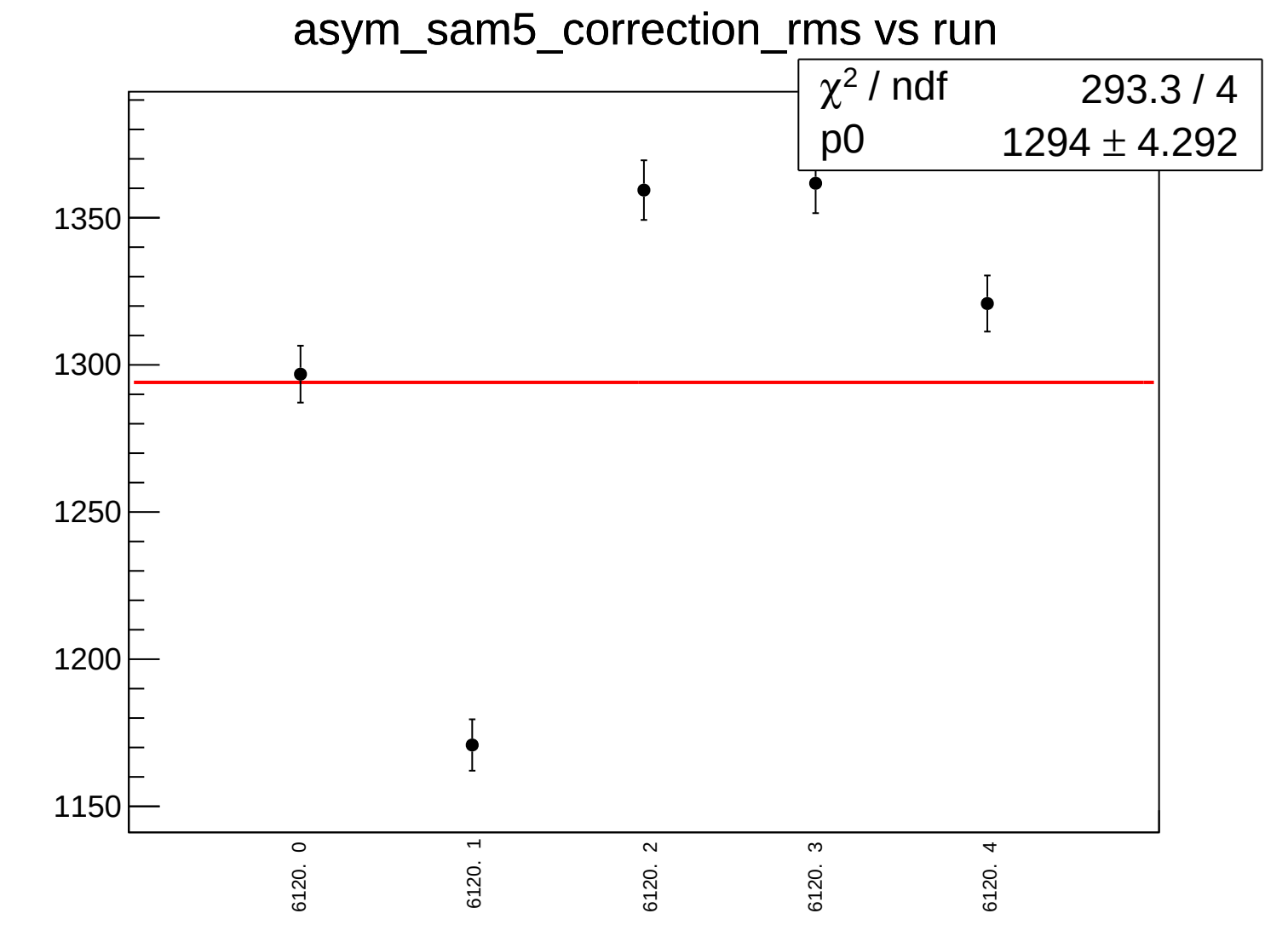

reg_asym_sam5_mean vs run
χ² / ndf 38.19 / 32
p0 −92.82 ± 241.1
6000
4000
2000
0
−2000
−4000
−6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1.203
Std Dev 17.41
3
2
1
0
−1
−2

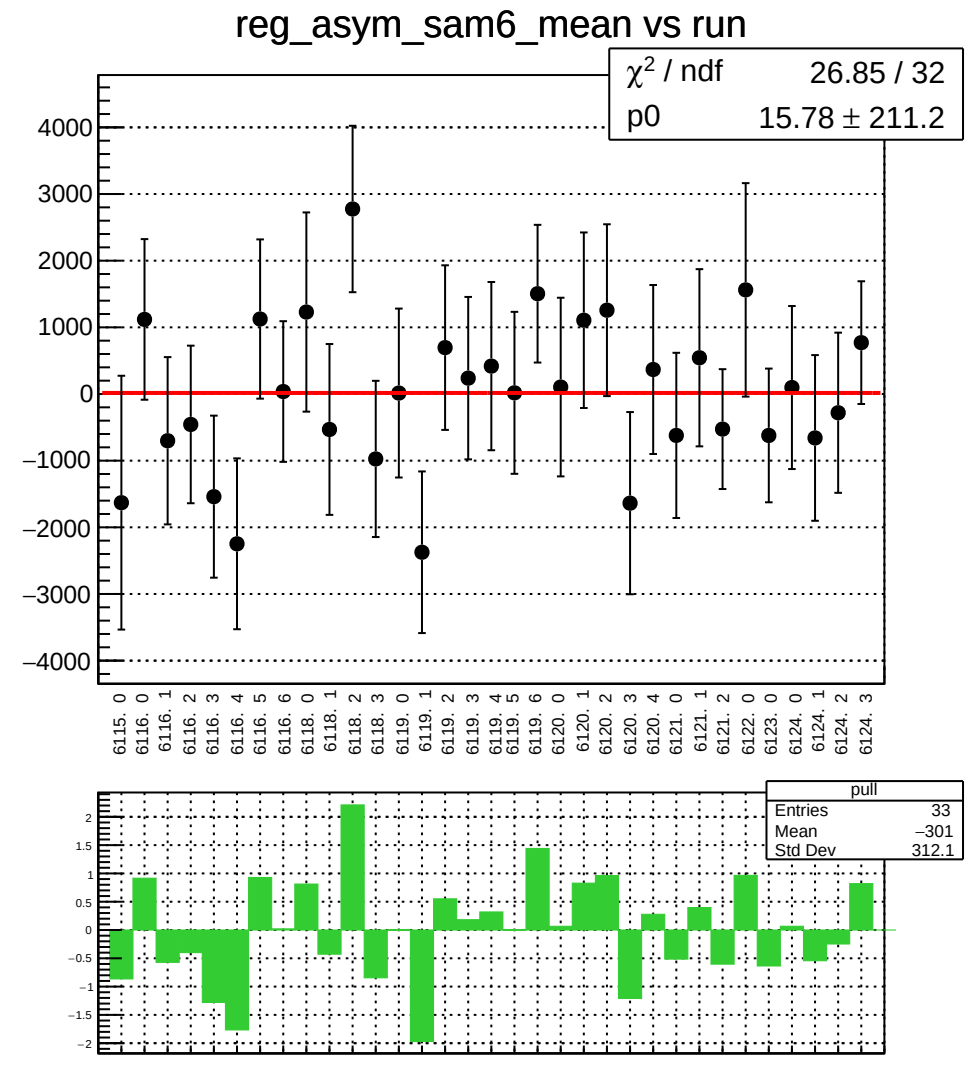

pull1D
Entries 33
Mean −0.02229
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

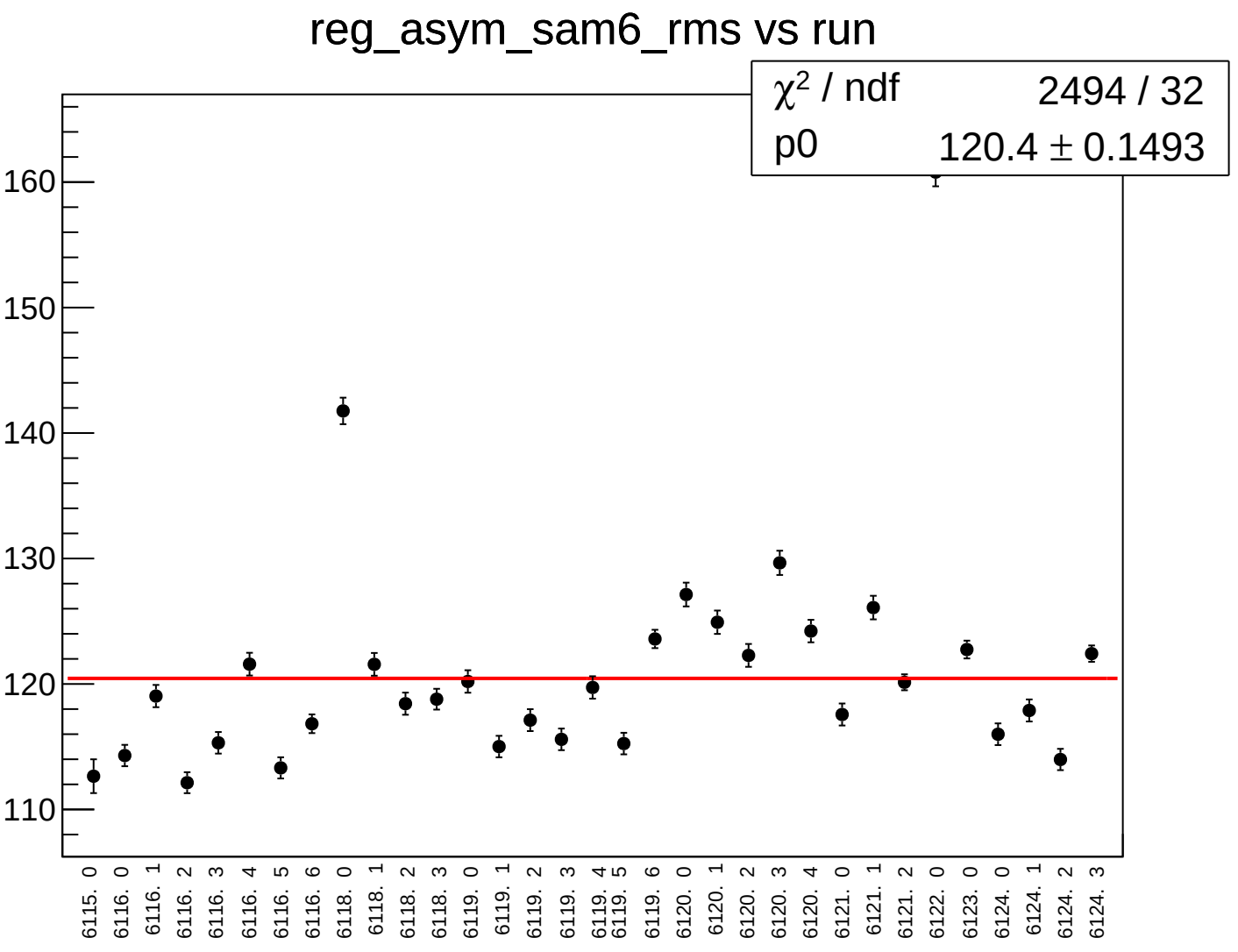

reg_asym_sam5_rms vs run
χ² / ndf 413.9 / 32
p0 137.7 ± 0.1704
150
145
140
135
130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

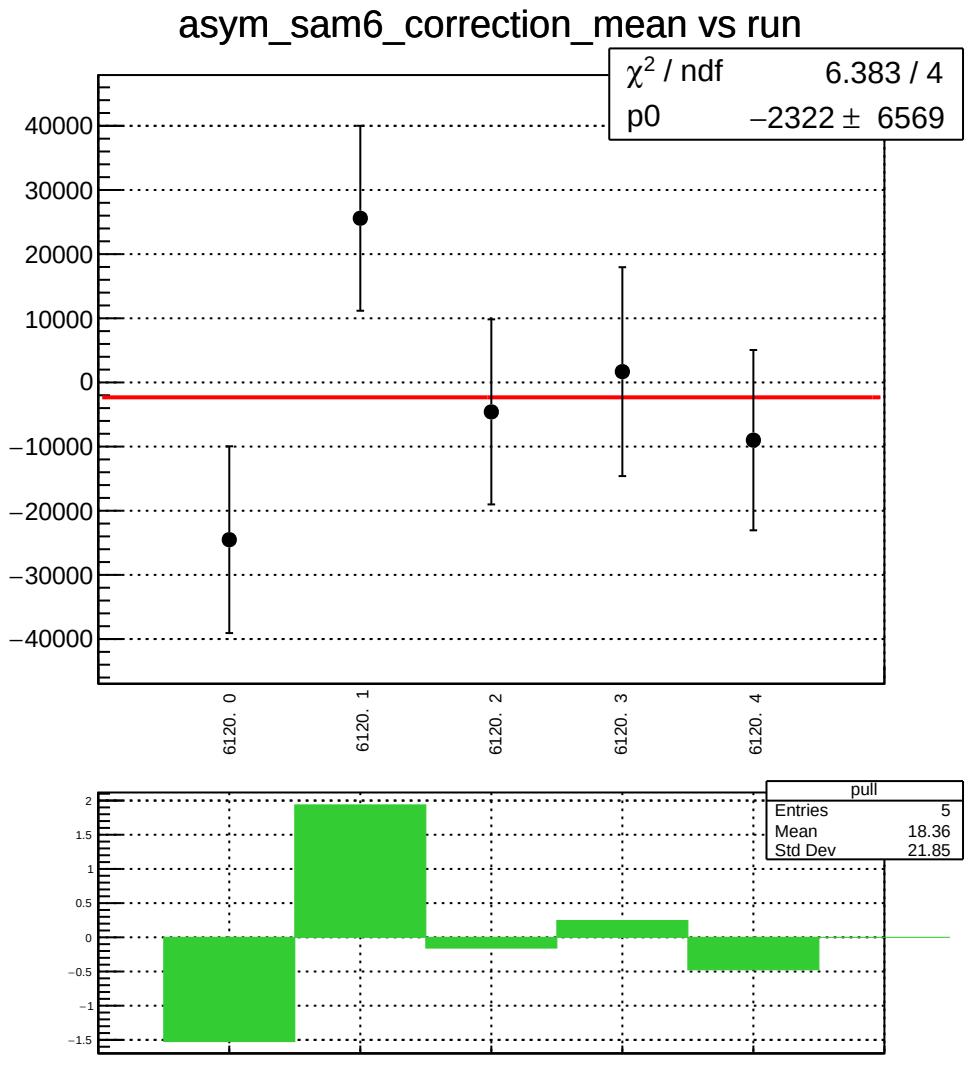

asym_sam5_correction_mean vs run
χ² / ndf 3.967 / 4
p0 1843 ± 6069
30000
20000
10000
0
−10000
−20000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 8.837
Std Dev 3.385
1.5
1
0.5
0
−0.5
−1

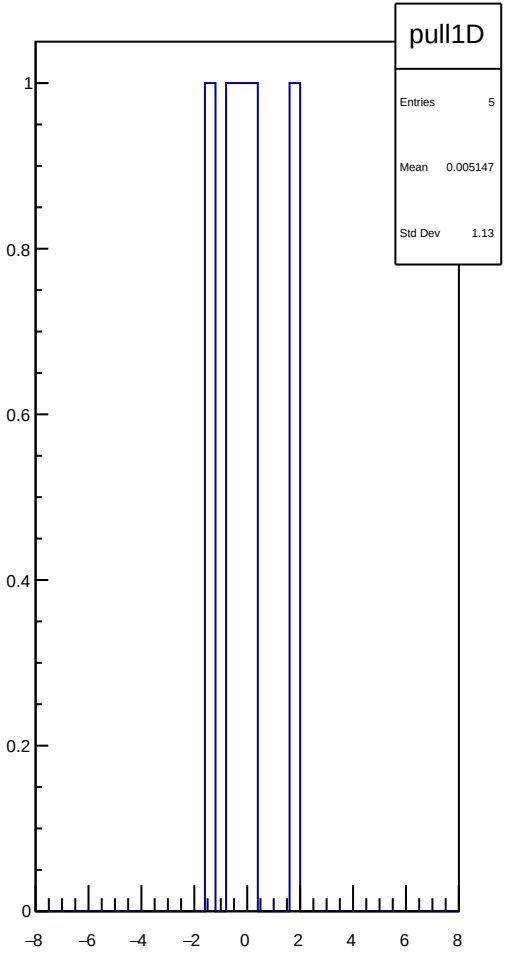

pull1D
Entries 5
Mean −0.03251
Std Dev 0.8902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

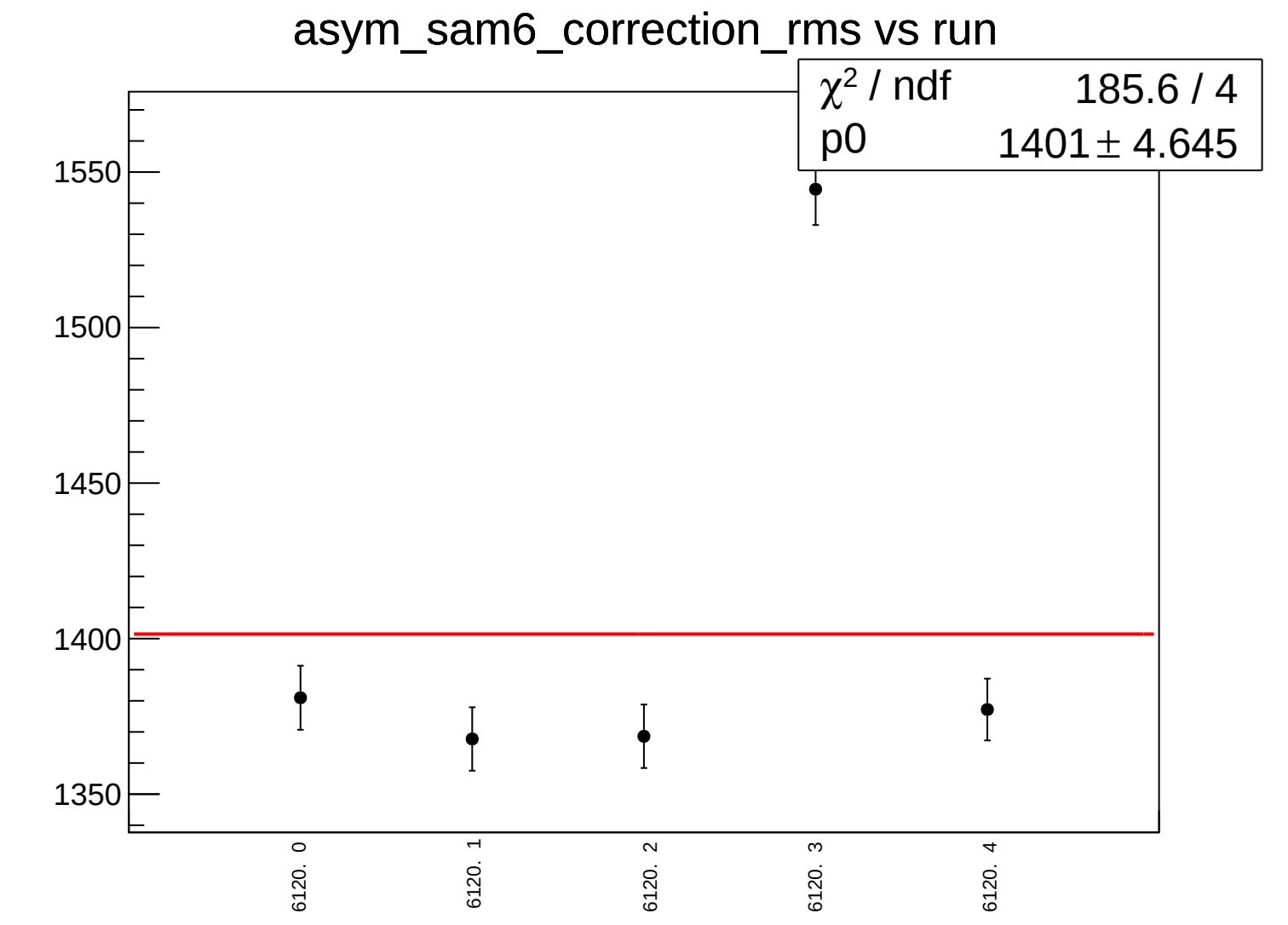

asym_sam5_correction_rms vs run
χ² / ndf 293.3 / 4
p0 1294 ± 4.292
1350
1300
1250
1200
1150
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

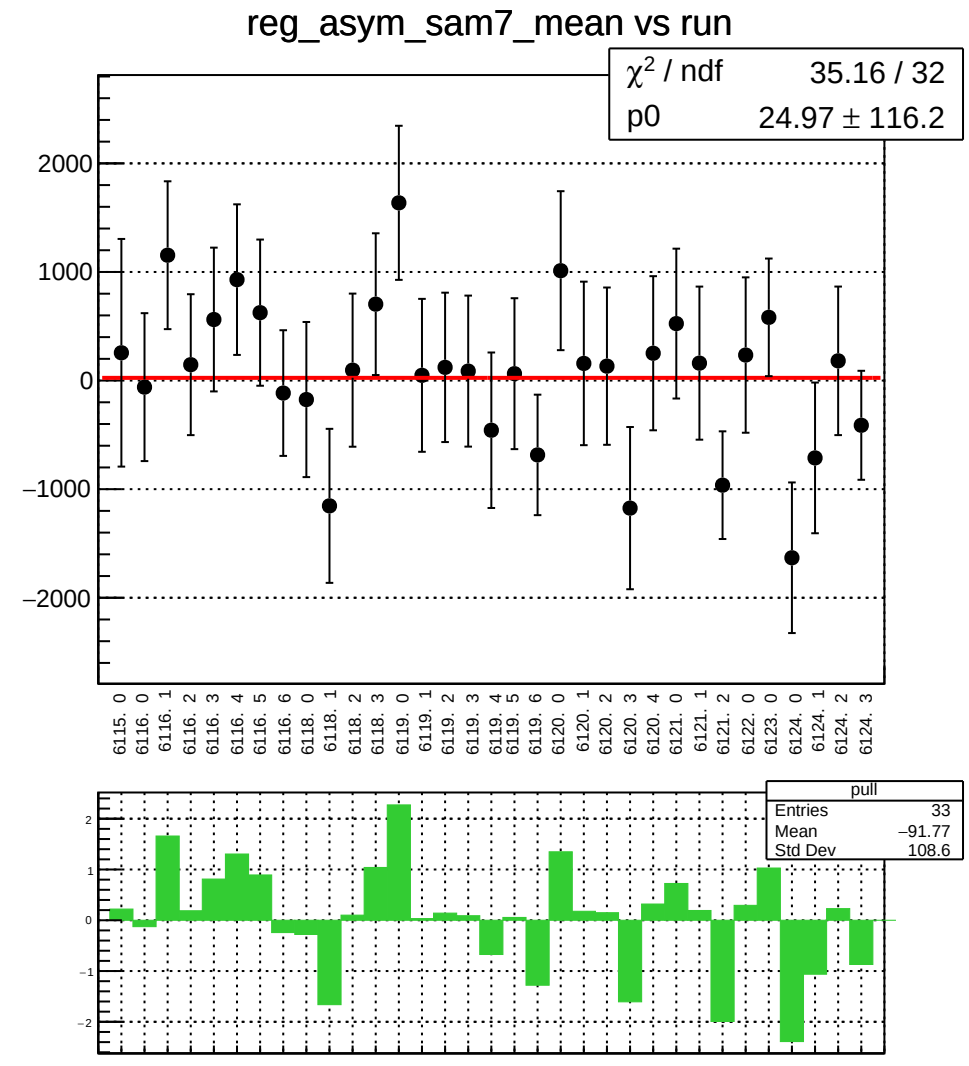

reg_asym_sam6_mean vs run
χ² / ndf 26.85 / 32
p0 15.78 ± 211.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −301
Std Dev 312.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003406
Std Dev 0.902
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

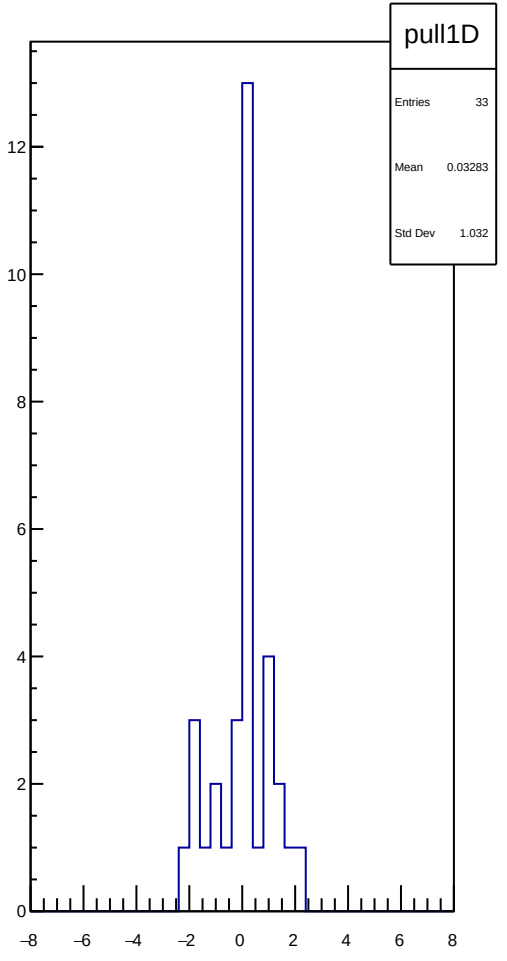

reg_asym_sam6_rms vs run
χ² / ndf 2494 / 32
p0 120.4 ± 0.1493
160
150
140
130
120
110
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

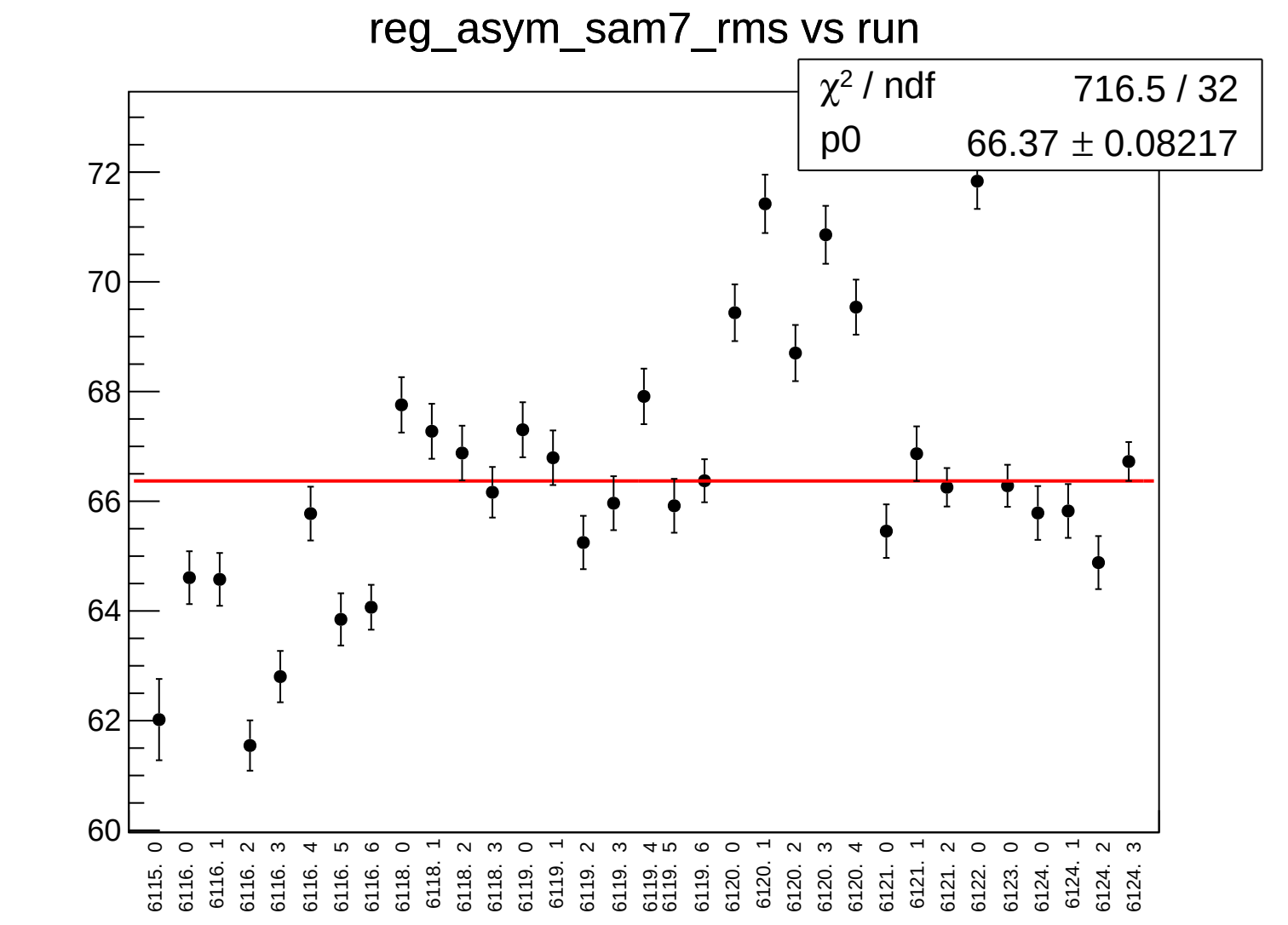

asym_sam6_correction_mean vs run
χ² / ndf 6.383 / 4
p0 −2322 ± 6569
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 18.36
Std Dev 21.85
2
1.5
1
0.5
0
−0.5
−1
−1.5

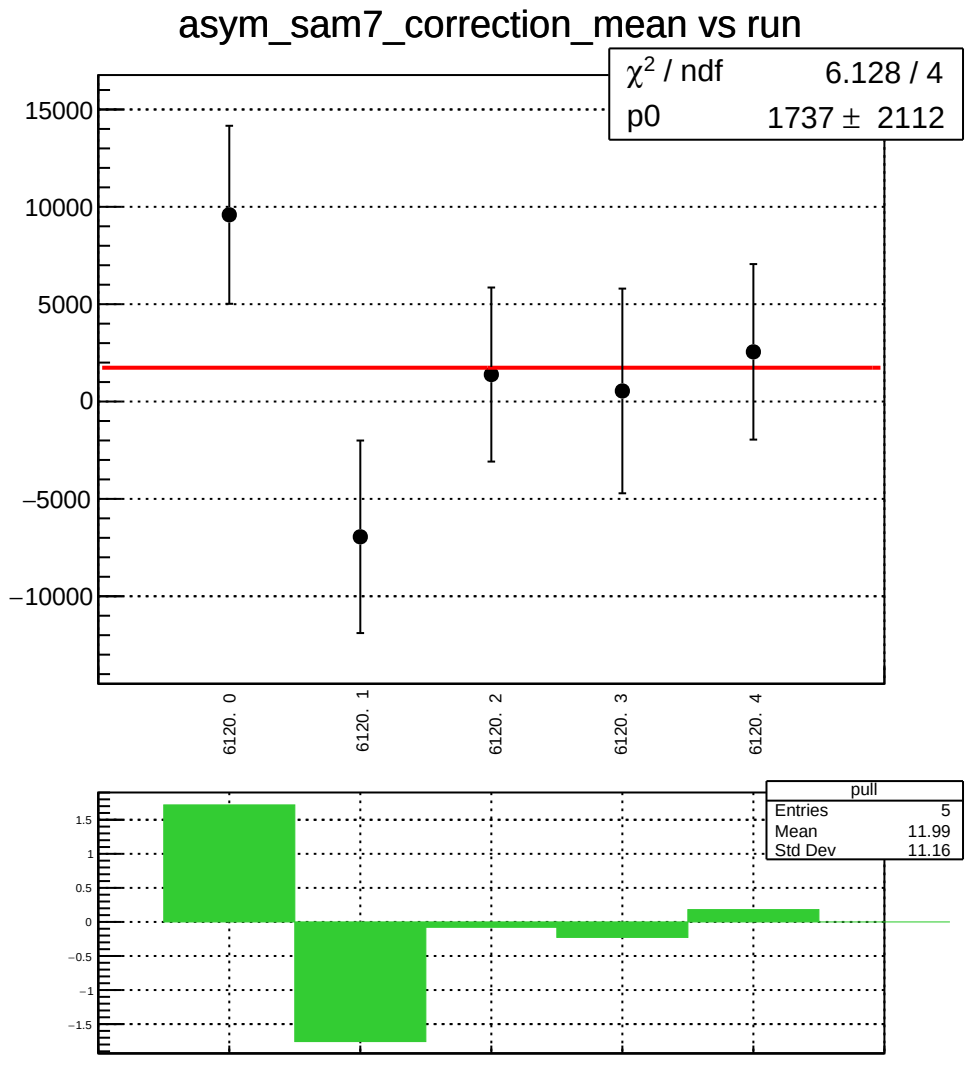

pull1D
Entries 5
Mean 0.005147
Std Dev 1.13
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

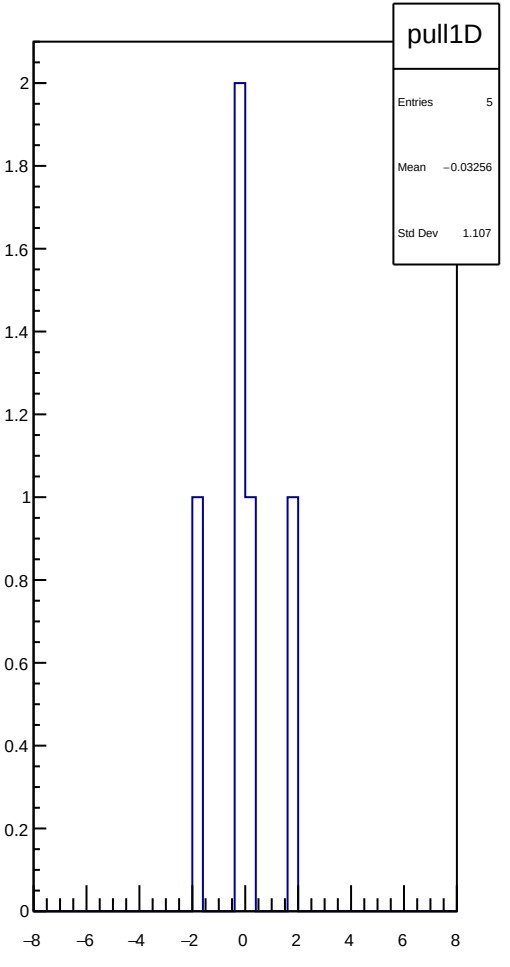

asym_sam6_correction_rms vs run
χ² / ndf 185.6 / 4
p0 1401 ± 4.645
1550
1500
1450
1400
1350
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

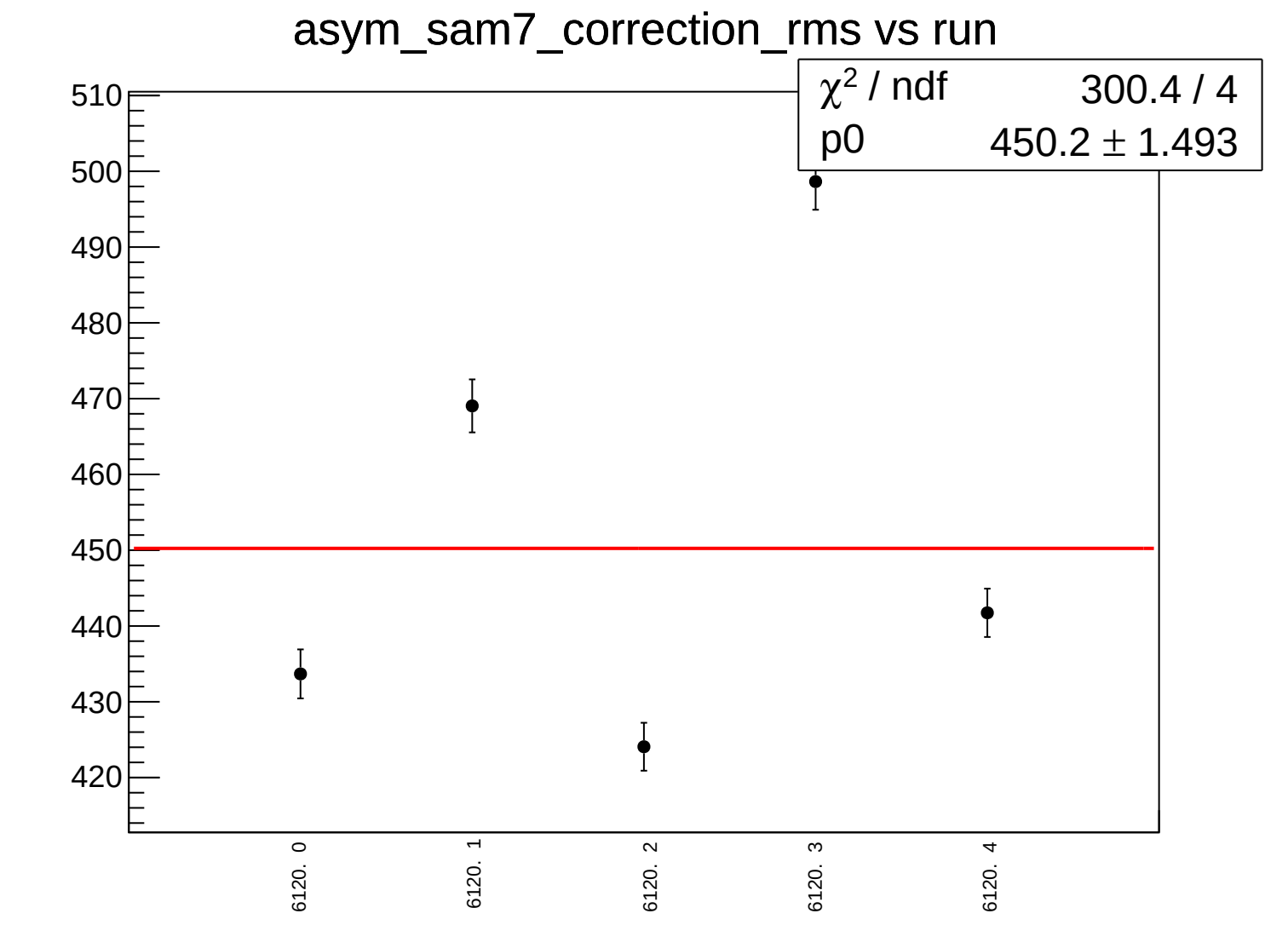

reg_asym_sam7_mean vs run
χ² / ndf 35.16 / 32
p0 24.97 ± 116.2
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −91.77
Std Dev 108.6
2
1
0
−1
−2

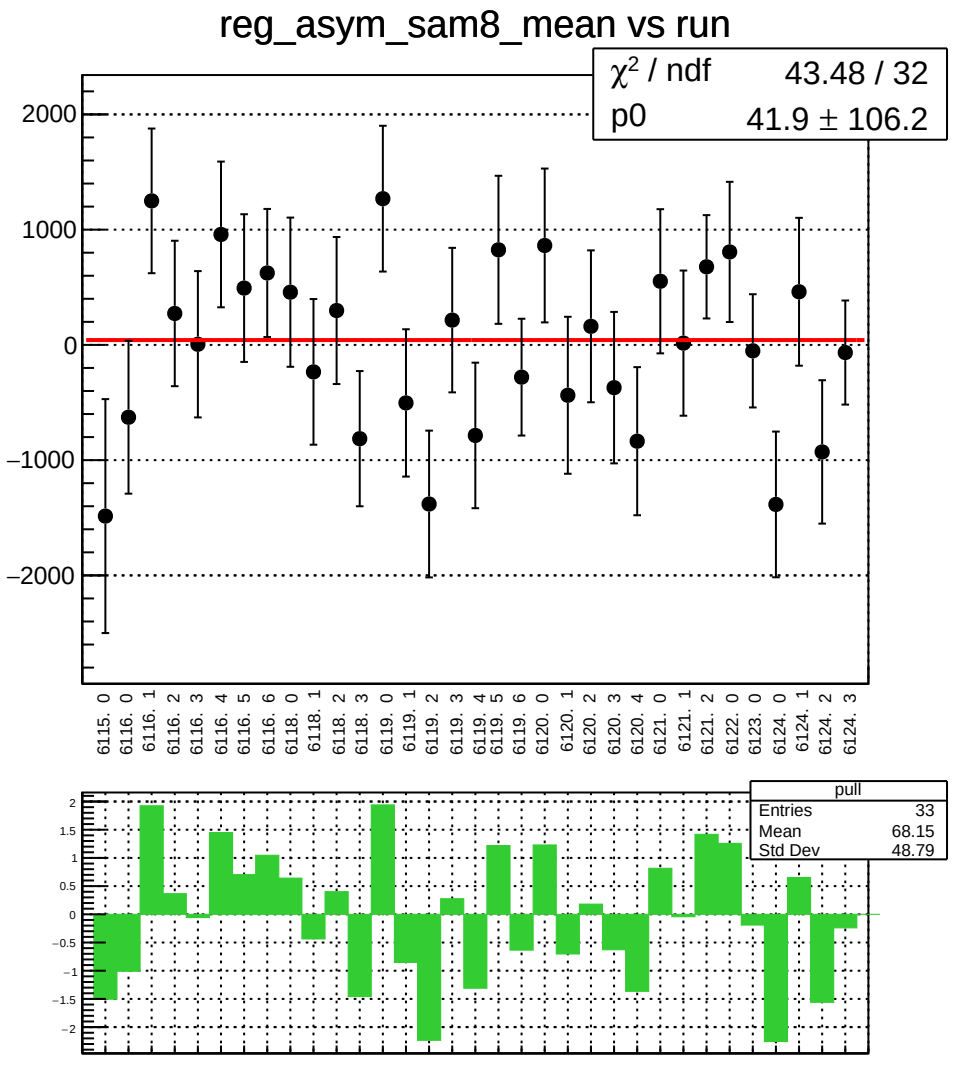

pull1D
Entries 33
Mean 0.03283
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

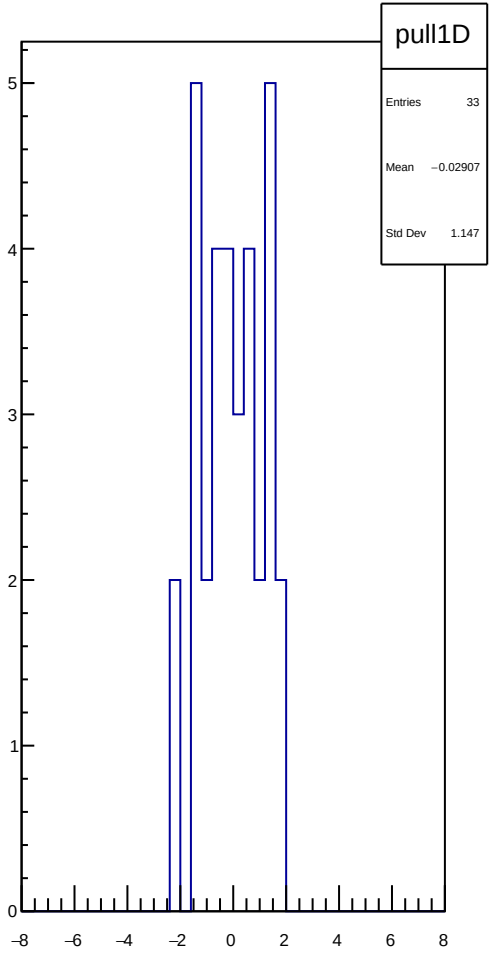

reg_asym_sam7_rms vs run
χ² / ndf 716.5 / 32
p0 66.37 ± 0.08217
72
70
68
66
64
62
60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

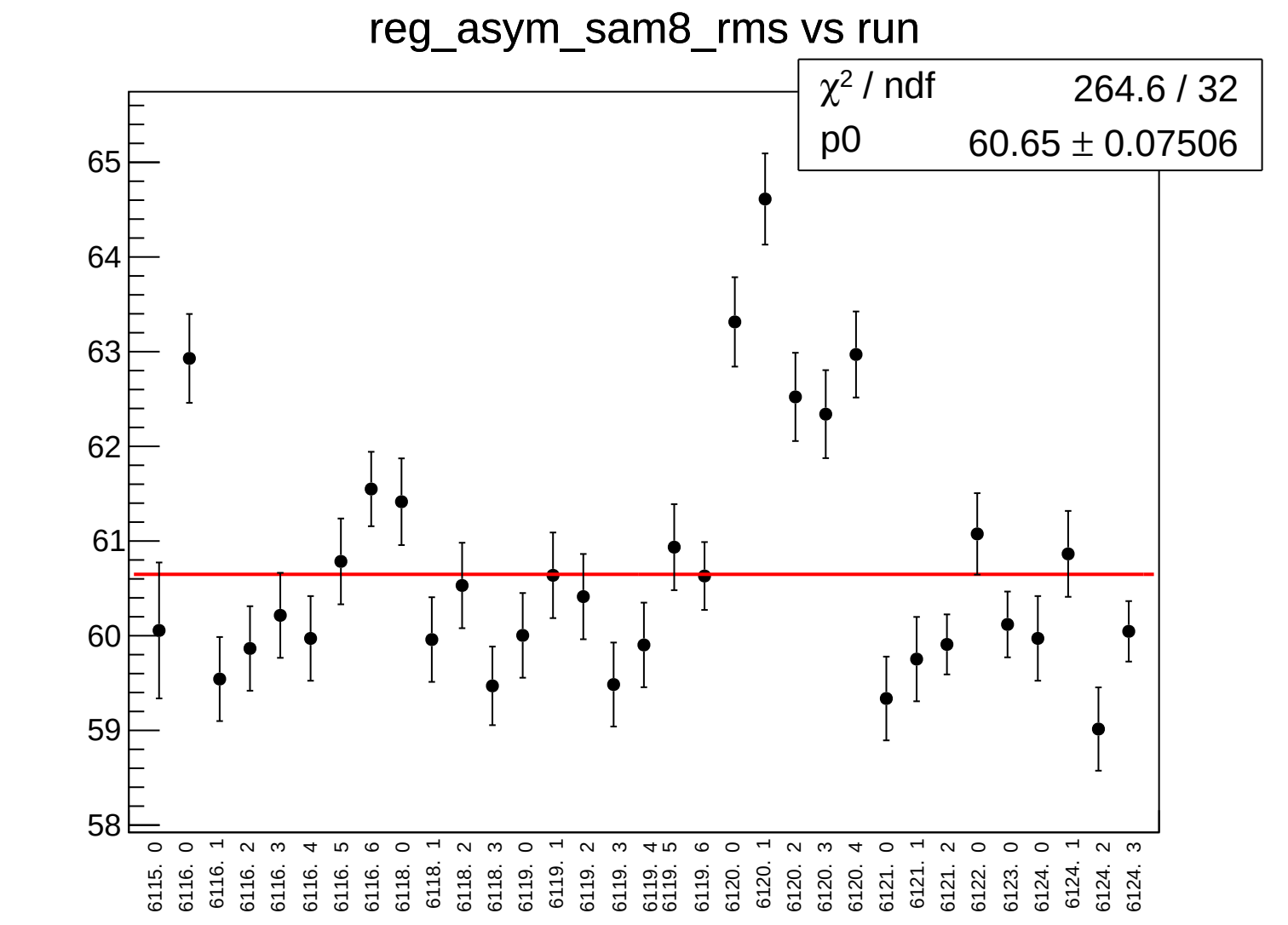

asym_sam7_correction_mean vs run
χ² / ndf 6.128 / 4
p0 1737 ± 2112
15000
10000
5000
0
−5000
−10000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 11.99
Std Dev 11.16
1.5
1
0.5
0
−0.5
−1
−1.5

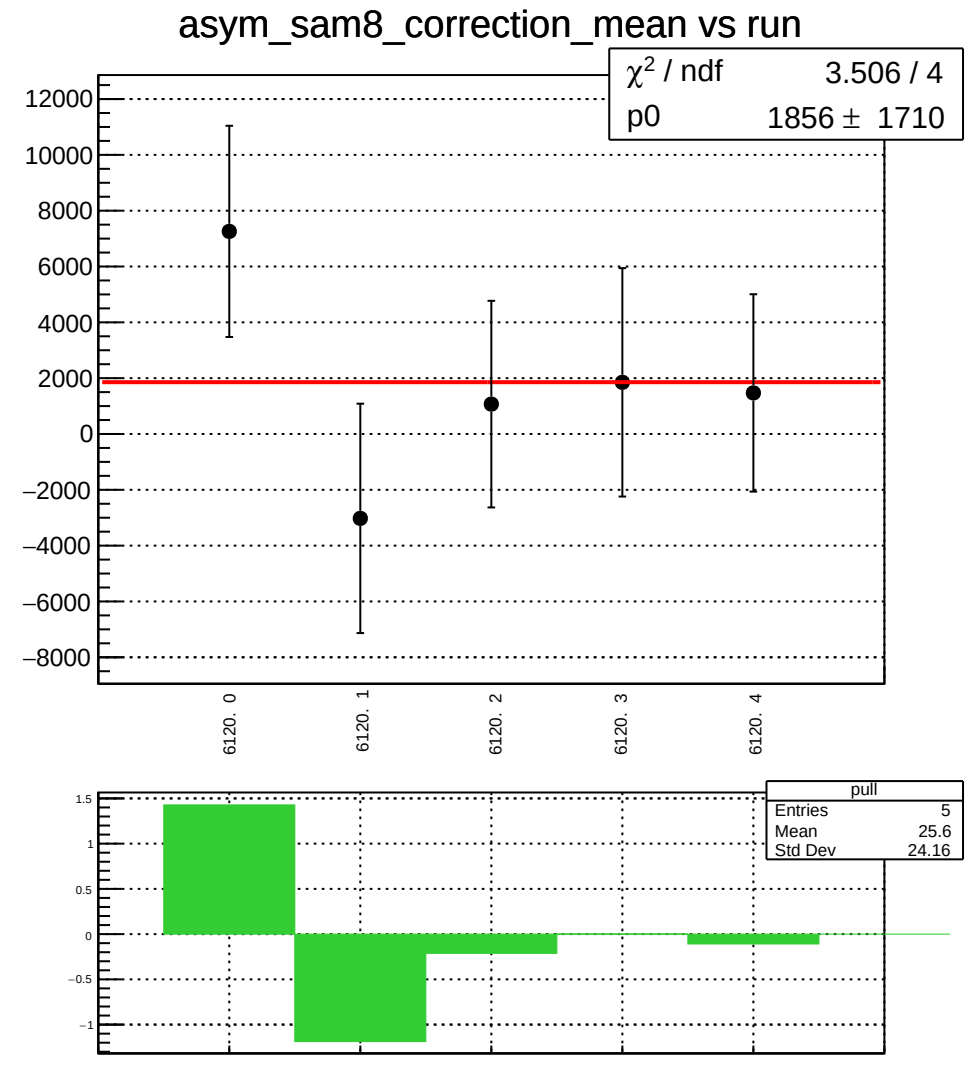

pull1D
Entries 5
Mean −0.03256
Std Dev 1.107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

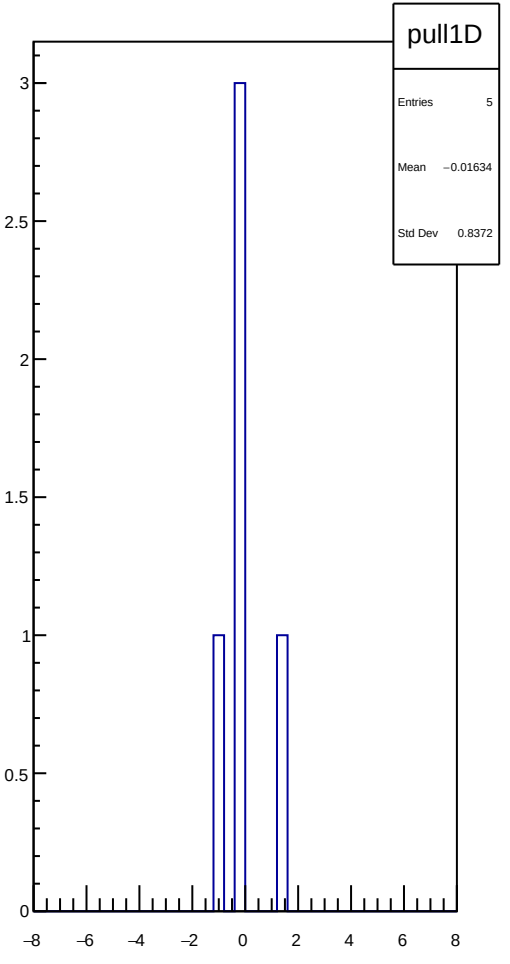

asym_sam7_correction_rms vs run
χ² / ndf 300.4 / 4
p0 450.2 ± 1.493
510
500
490
480
470
460
450
440
430
420
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

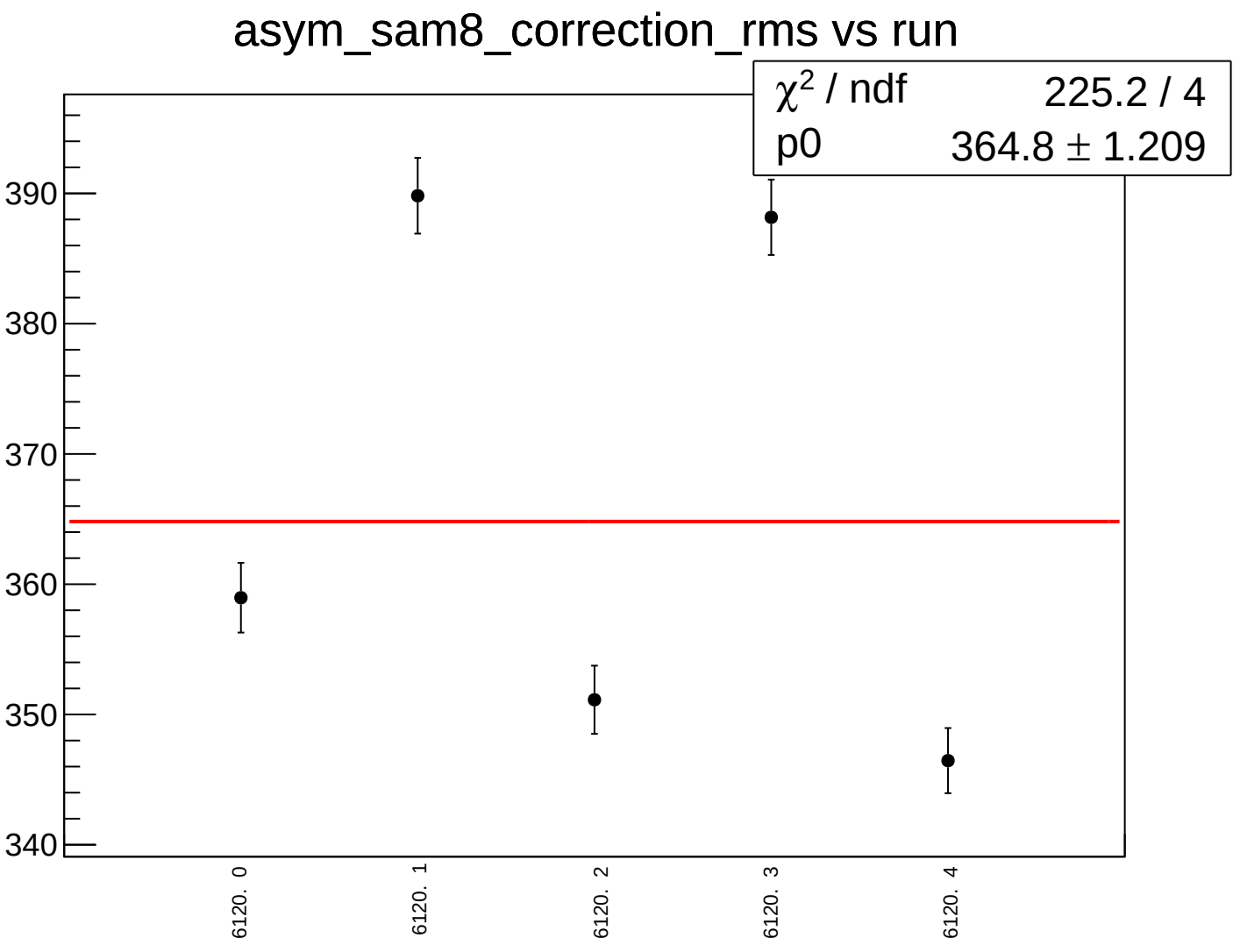

reg_asym_sam8_mean vs run
χ² / ndf 43.48 / 32
p0 41.9 ± 106.2
2000
1000
0
−1000
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 68.15
Std Dev 48.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

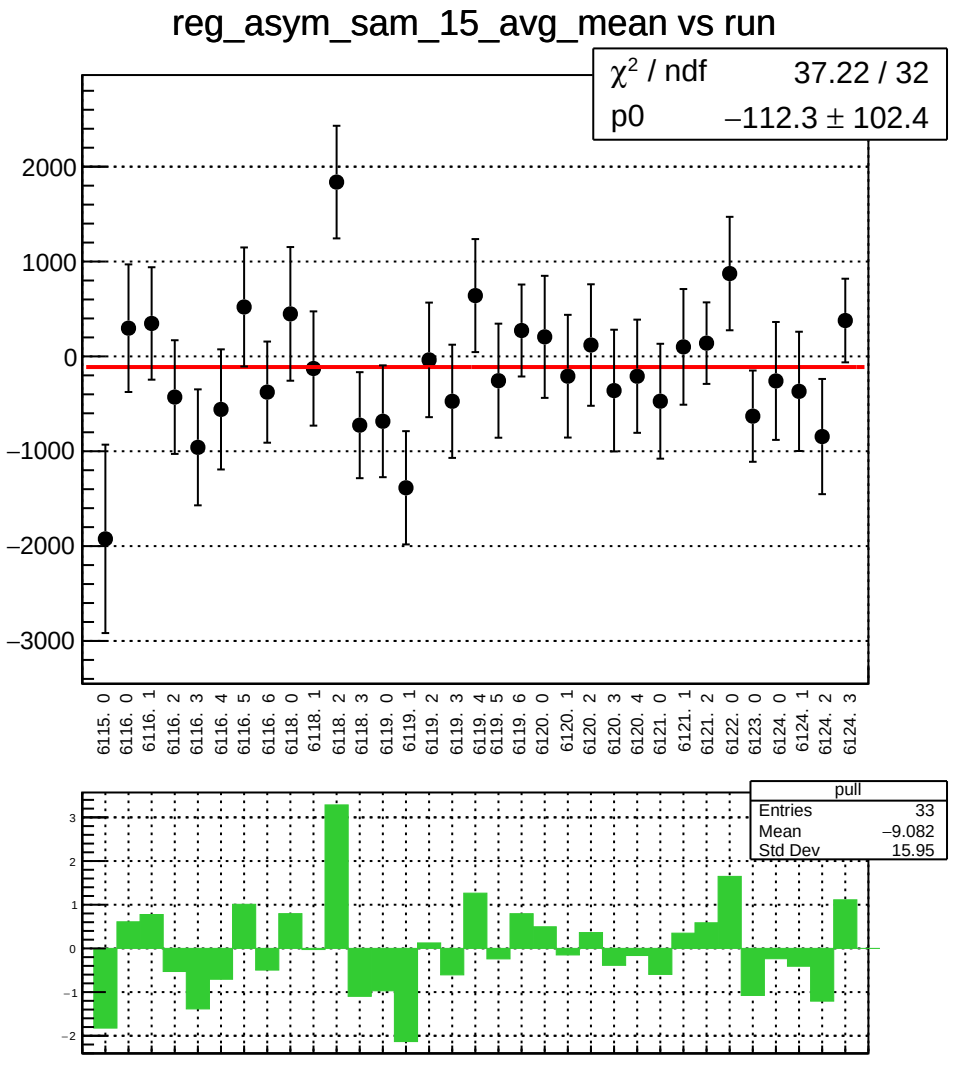

pull1D
Entries 33
Mean −0.02907
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

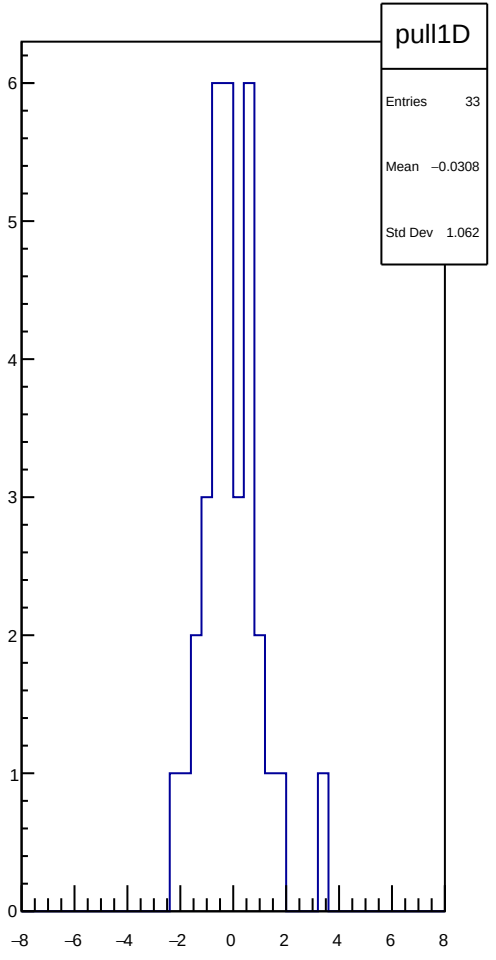

reg_asym_sam8_rms vs run
χ² / ndf 264.6 / 32
p0 60.65 ± 0.07506
65
64
63
62
61
60
59
58
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

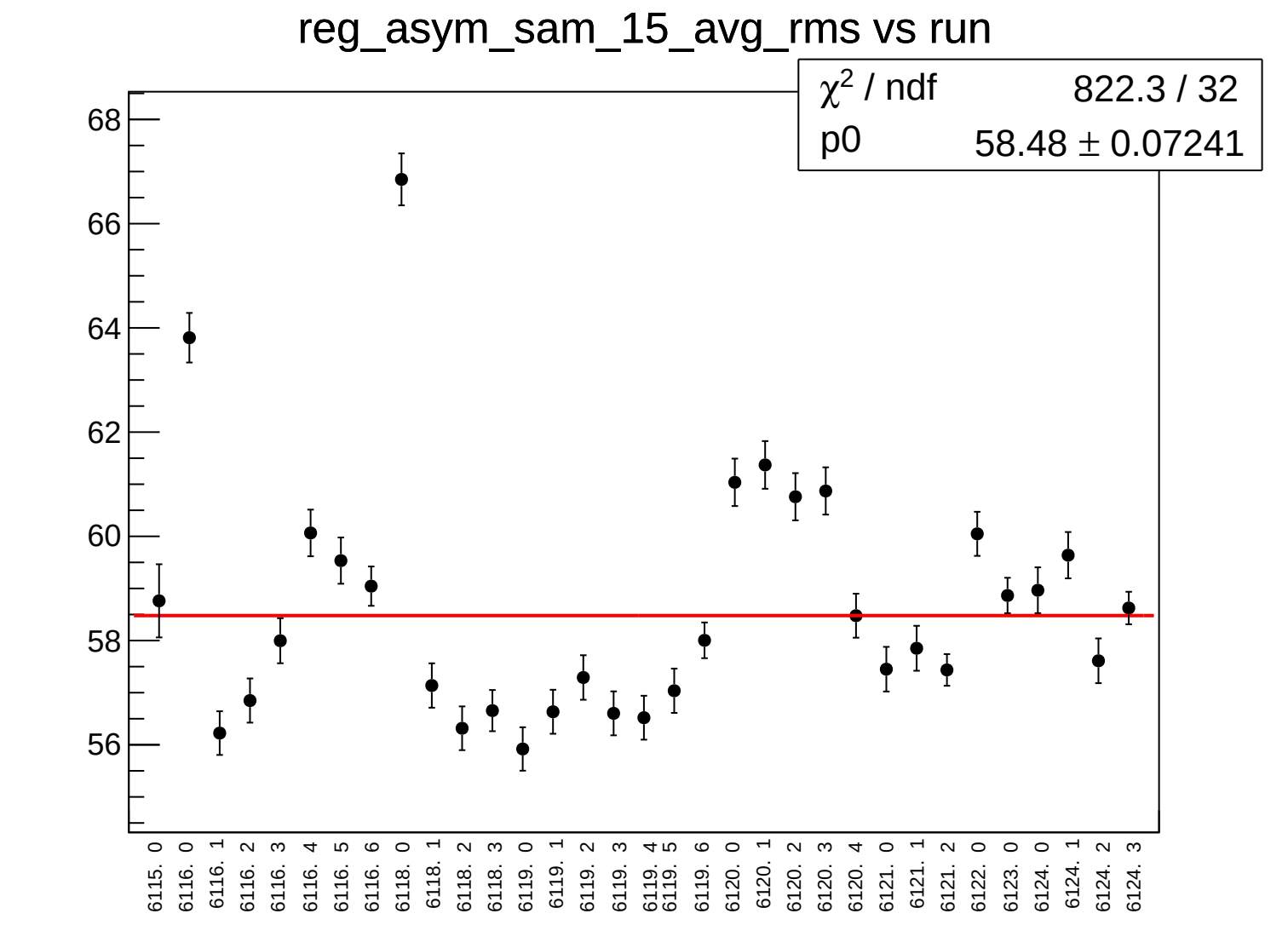

asym_sam8_correction_mean vs run
χ² / ndf 3.506 / 4
p0 1856 ± 1710
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
pull
Entries 5
Mean 25.6
Std Dev 24.16
1.5
1
0.5
0
−0.5
−1

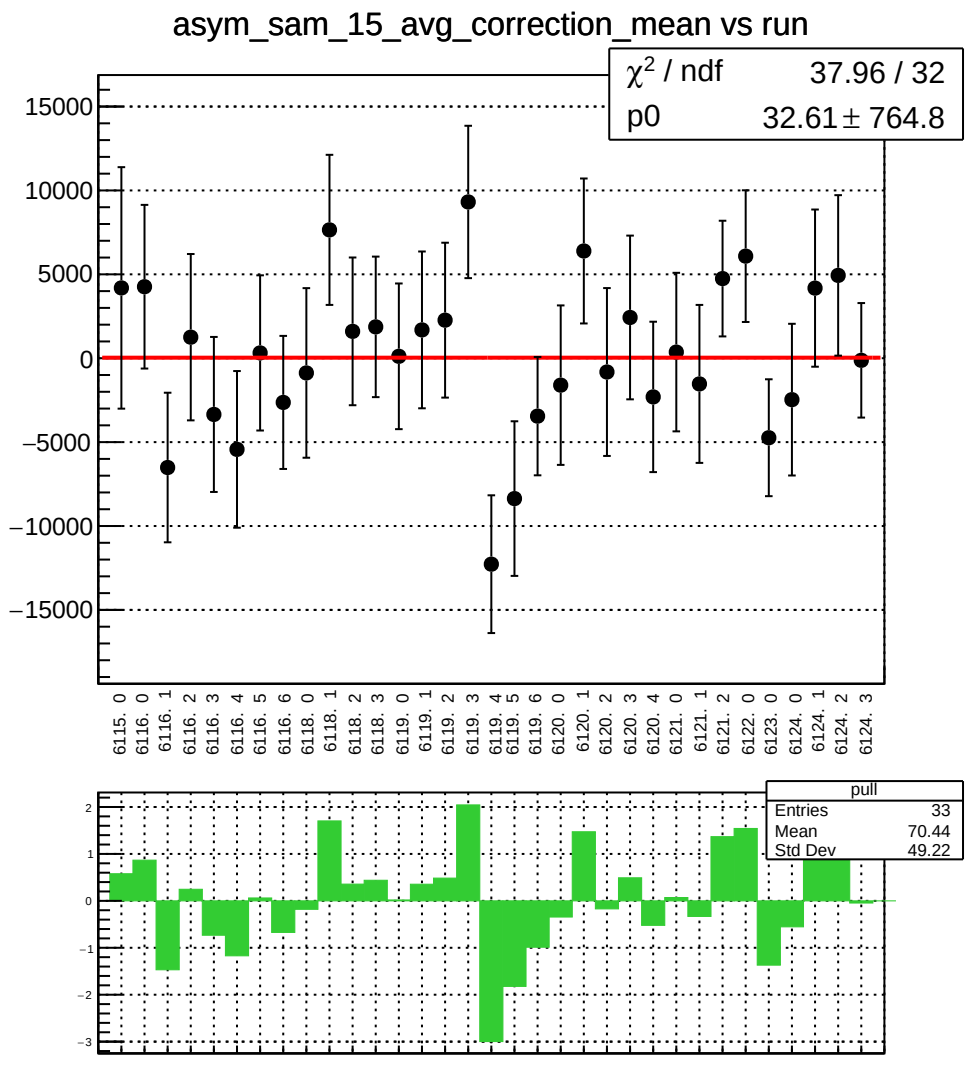

pull1D
Entries 5
Mean −0.01634
Std Dev 0.8372
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

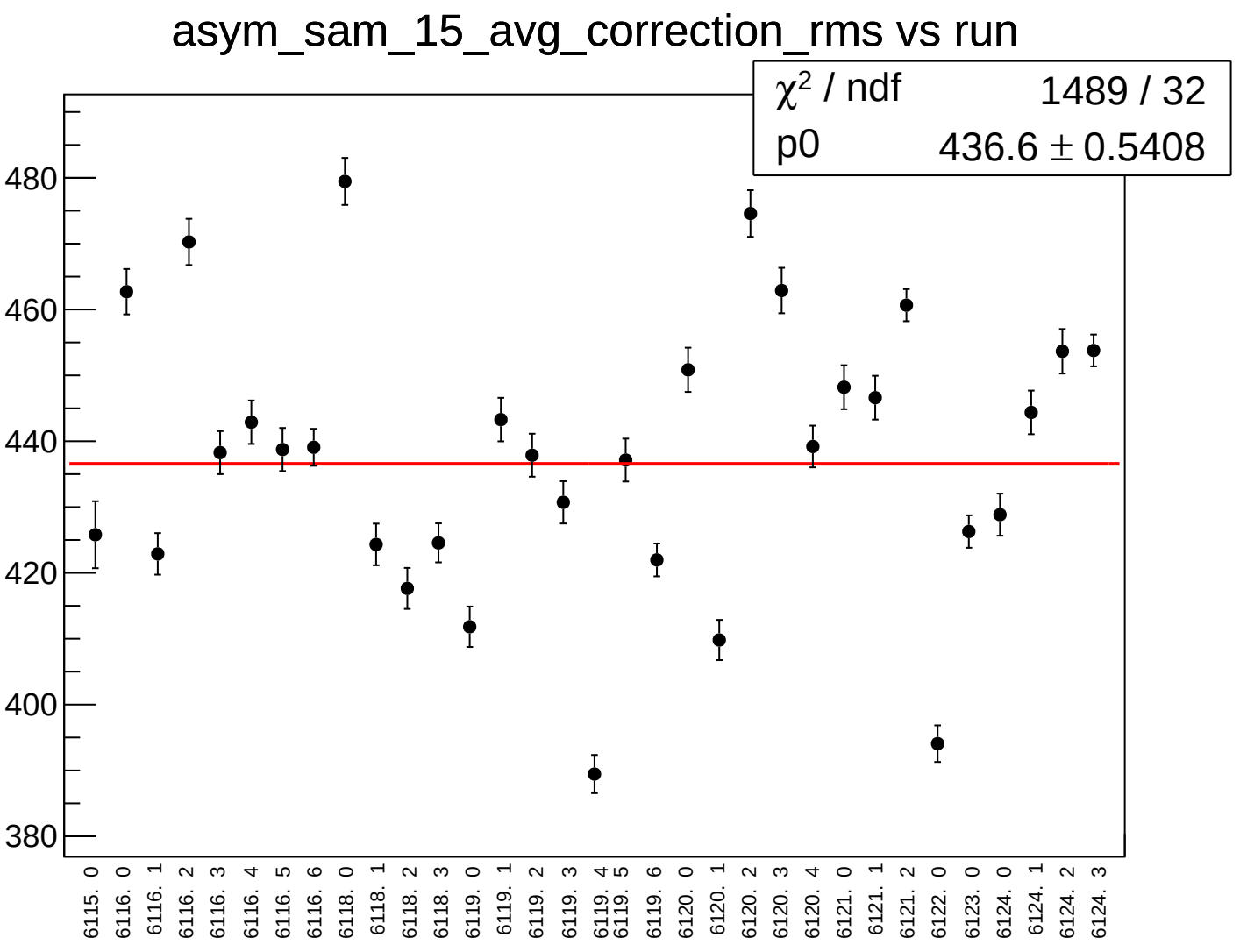

asym_sam8_correction_rms vs run
χ² / ndf 225.2 / 4
p0 364.8 ± 1.209
390
380
370
360
350
340
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4

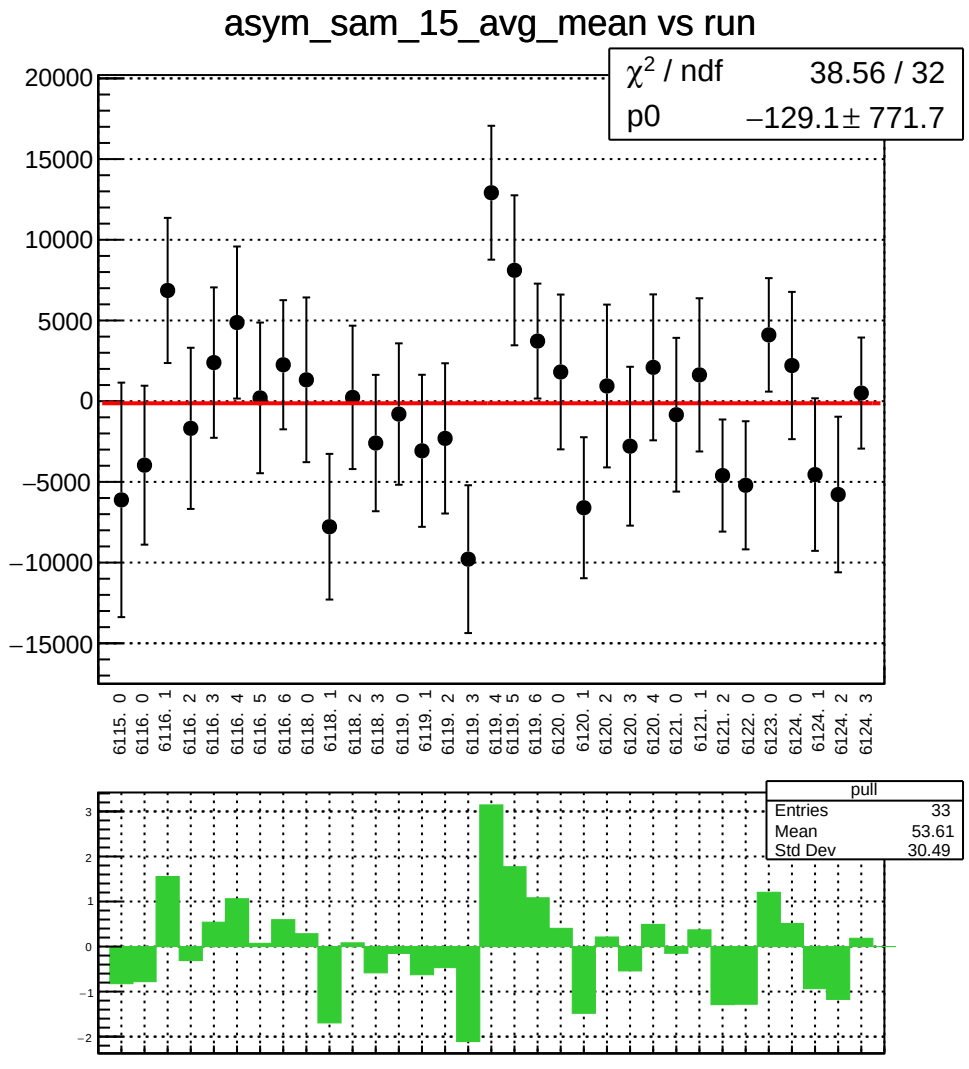

reg_asym_sam_15_avg_mean vs run
χ² / ndf 37.22 / 32
p0 −112.3 ± 102.4
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −9.082
Std Dev 15.95
3
2
1
0
−1
−2

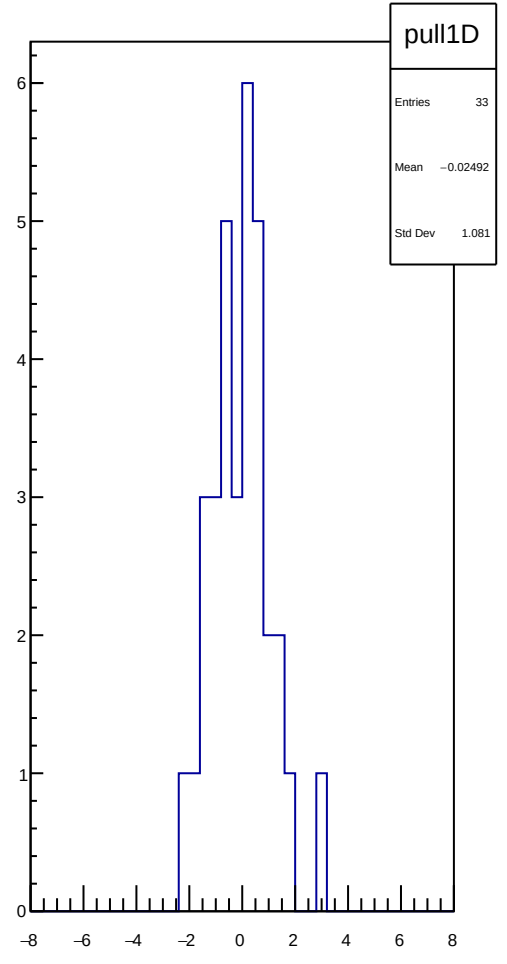

pull1D
Entries 33
Mean −0.0308
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

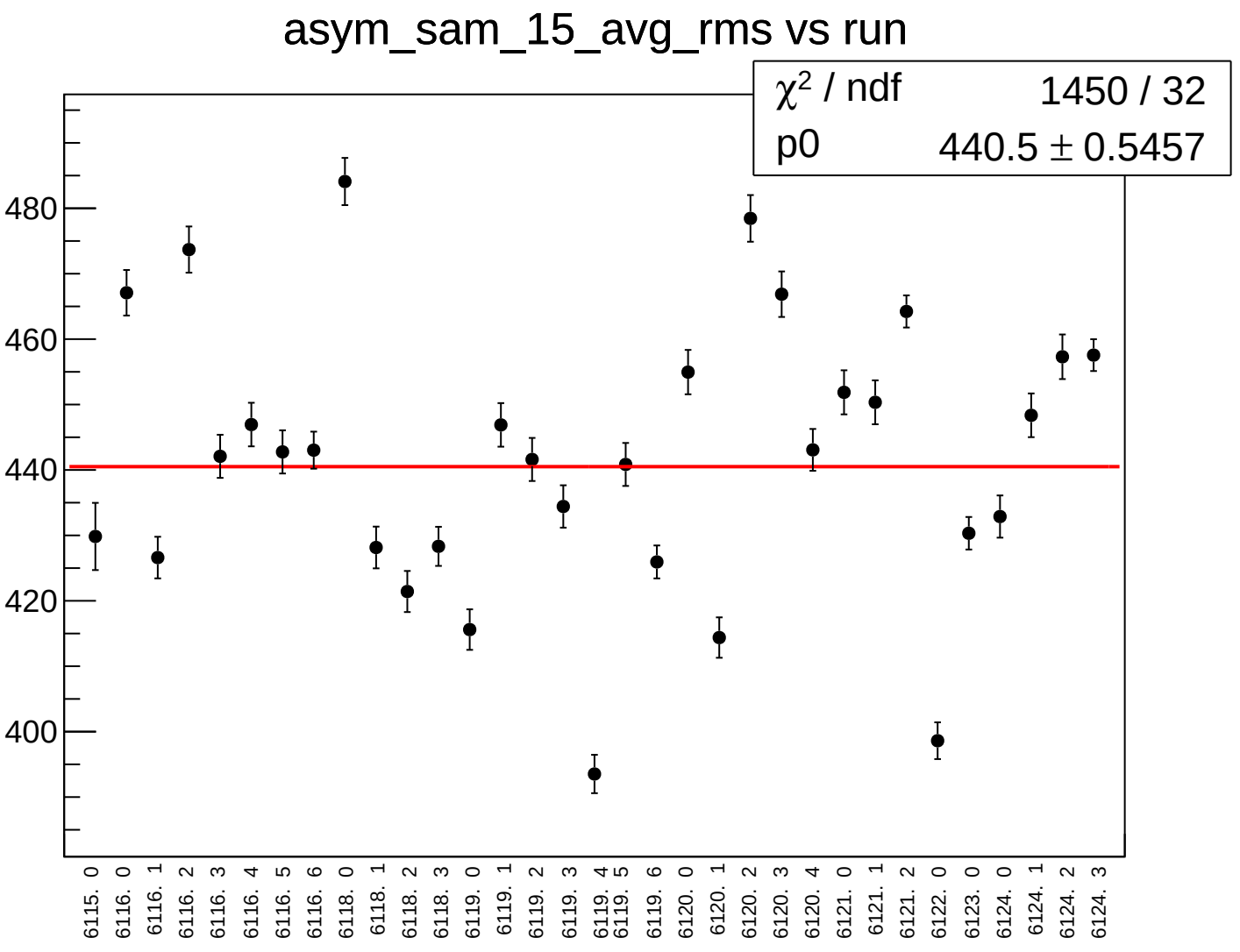

reg_asym_sam_15_avg_rms vs run
χ² / ndf 822.3 / 32
p0 58.48 ± 0.07241
68
66
64
62
60
58
56
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

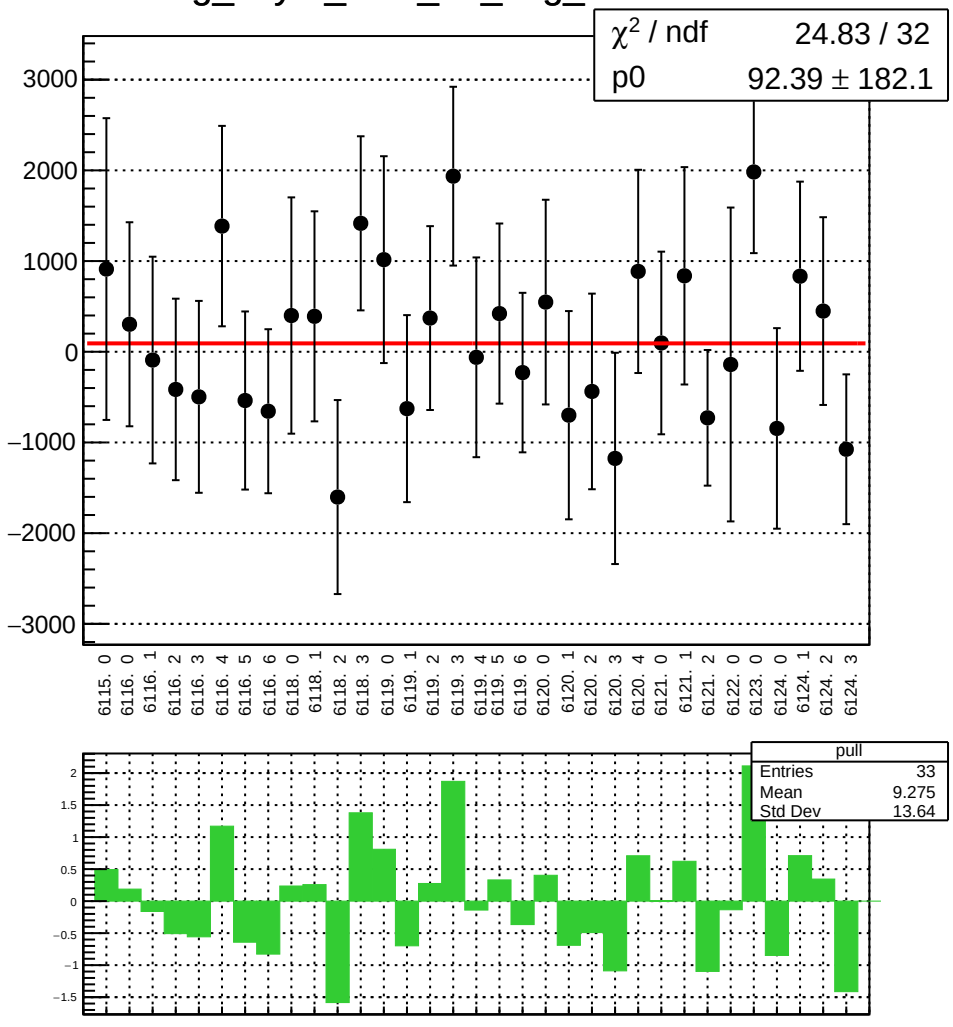

asym_sam_15_avg_correction_mean vs run
χ² / ndf 37.96 / 32
p0 32.61 ± 764.8
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 70.44
Std Dev 49.22
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.01931
Std Dev 1.072
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

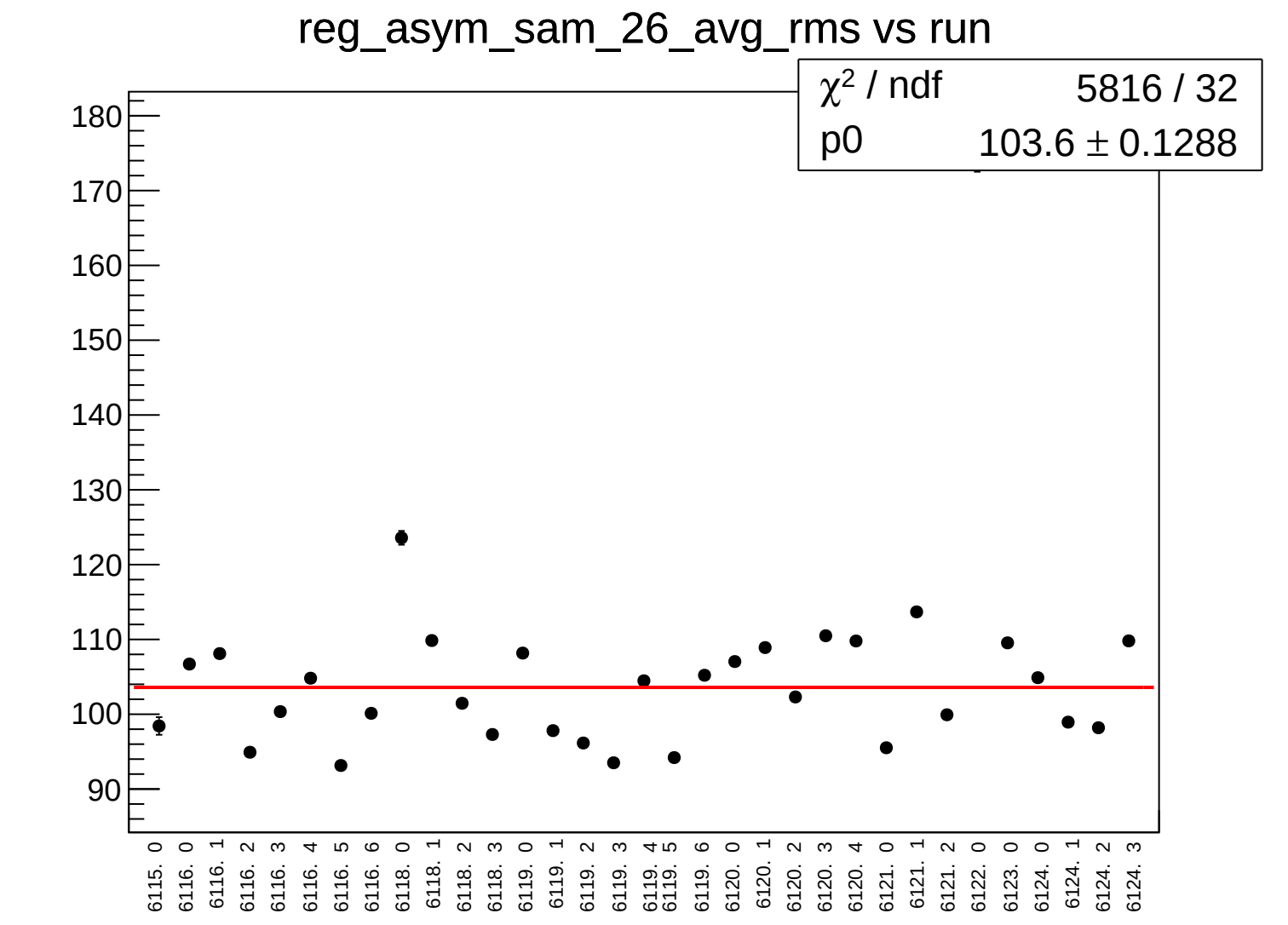

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1489 / 32
p0 436.6 ± 0.5408
480
460
440
420
400
380
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

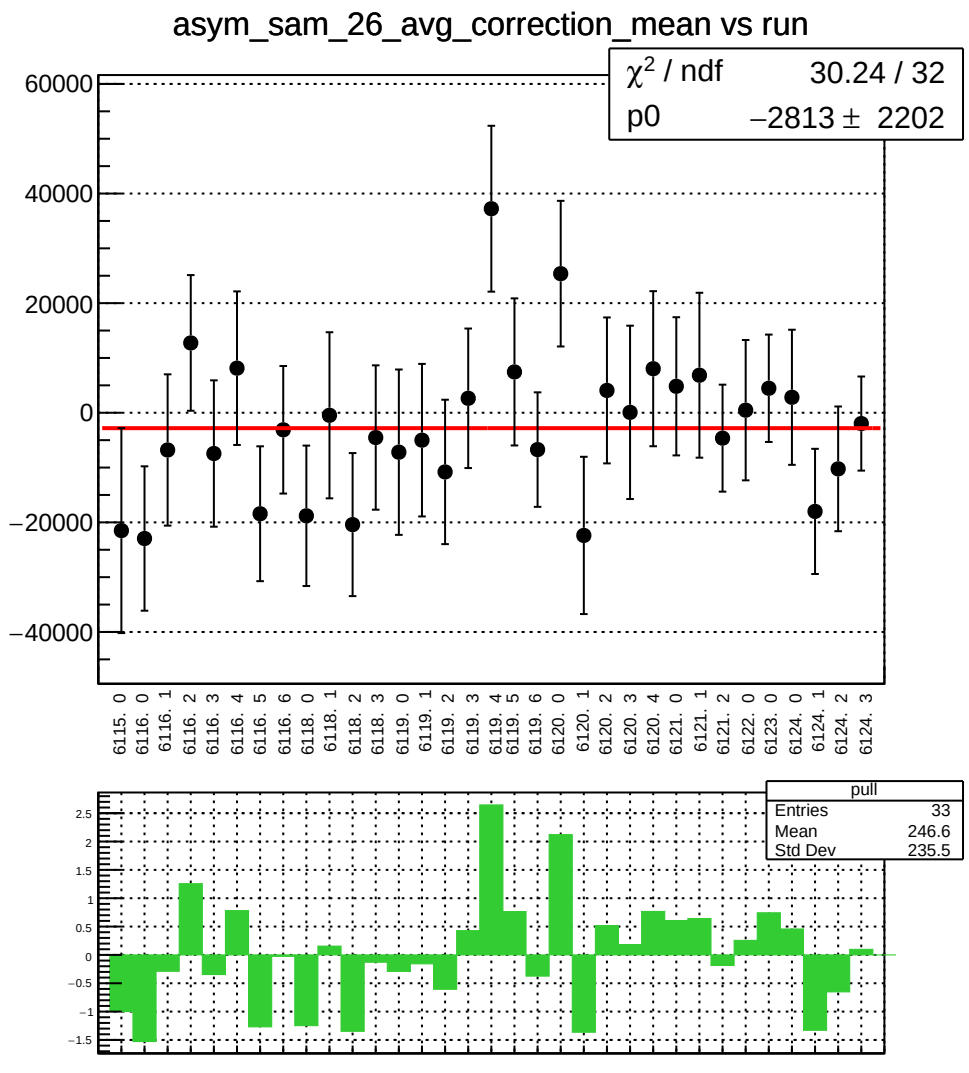

asym_sam_15_avg_mean vs run
χ² / ndf 38.56 / 32
p0 −129.1± 771.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 53.61
Std Dev 30.49
3
2
1
0
−1
−2

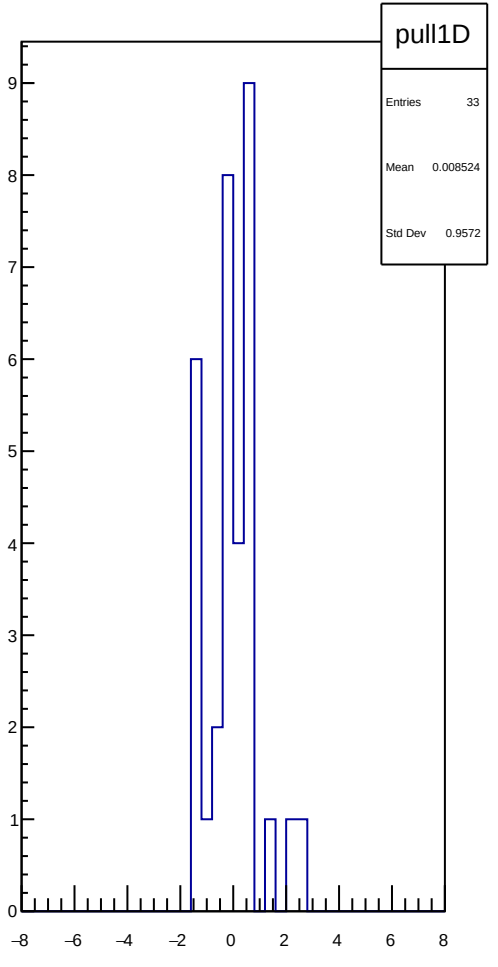

pull1D
Entries 33
Mean −0.02492
Std Dev 1.081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

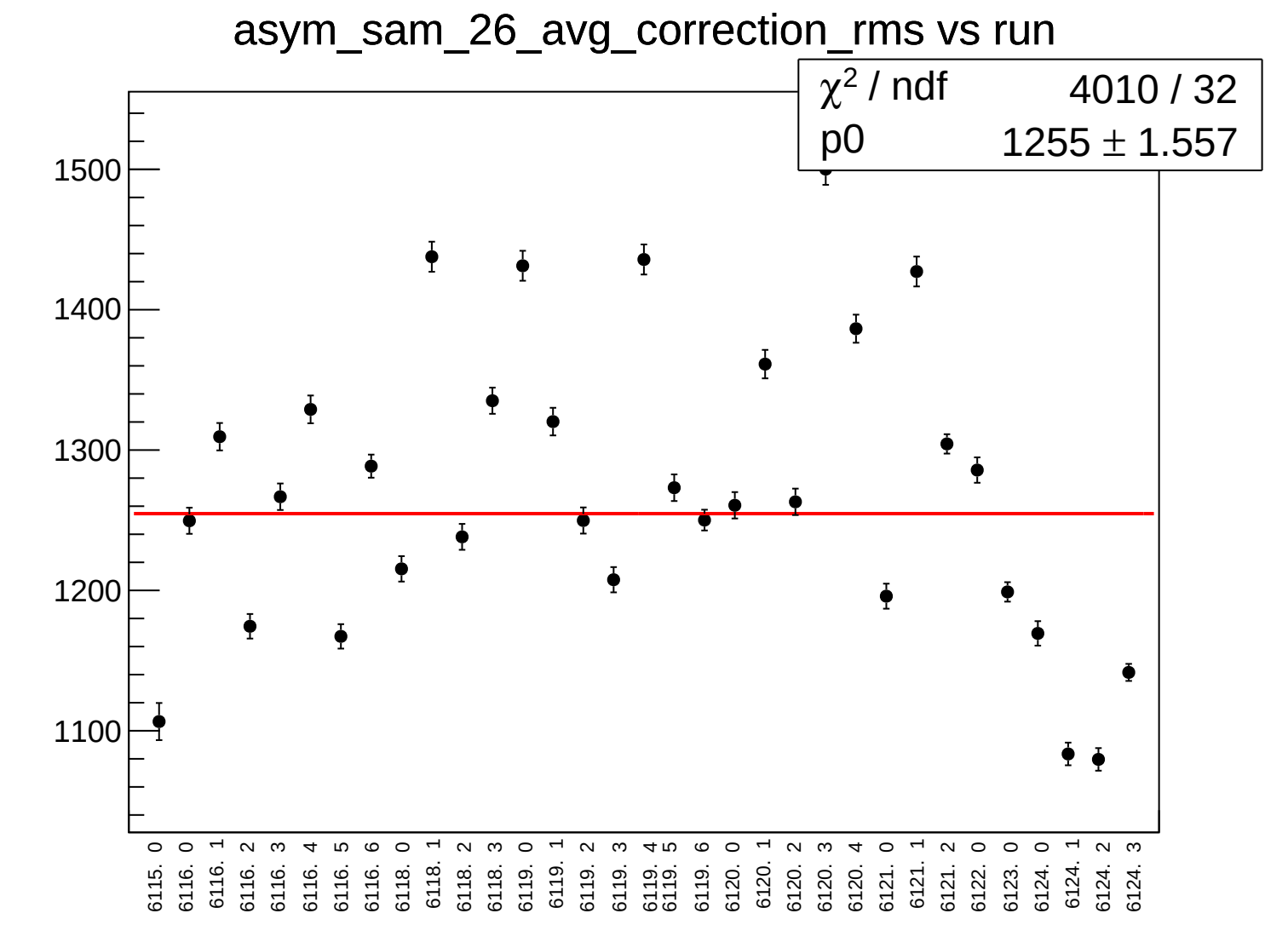

asym_sam_15_avg_rms vs run
χ² / ndf 1450 / 32
p0 440.5 ± 0.5457
480
460
440
420
400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

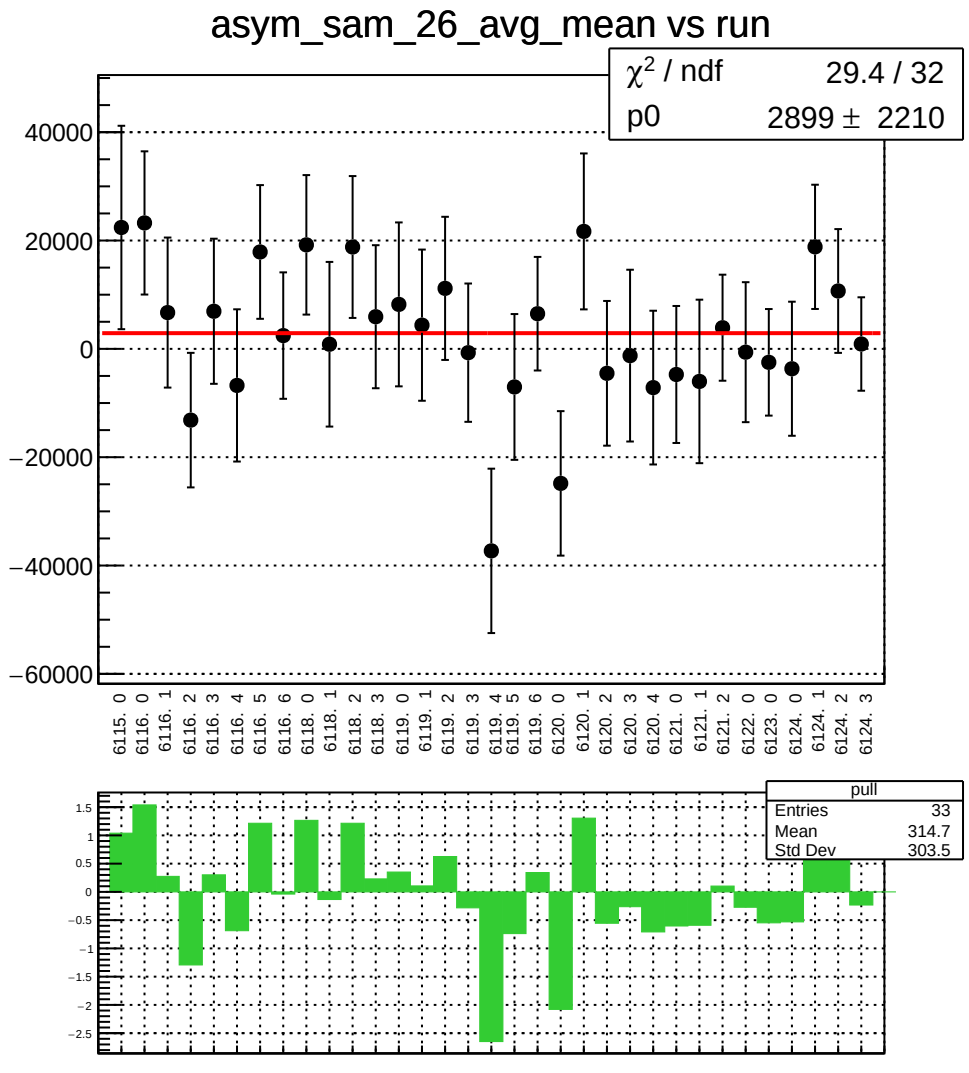

reg_asym_sam_26_avg_mean vs run
χ² / ndf 24.83 / 32
p0 92.39 ± 182.1
3000
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 9.275
Std Dev 13.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02021
Std Dev 0.8671
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

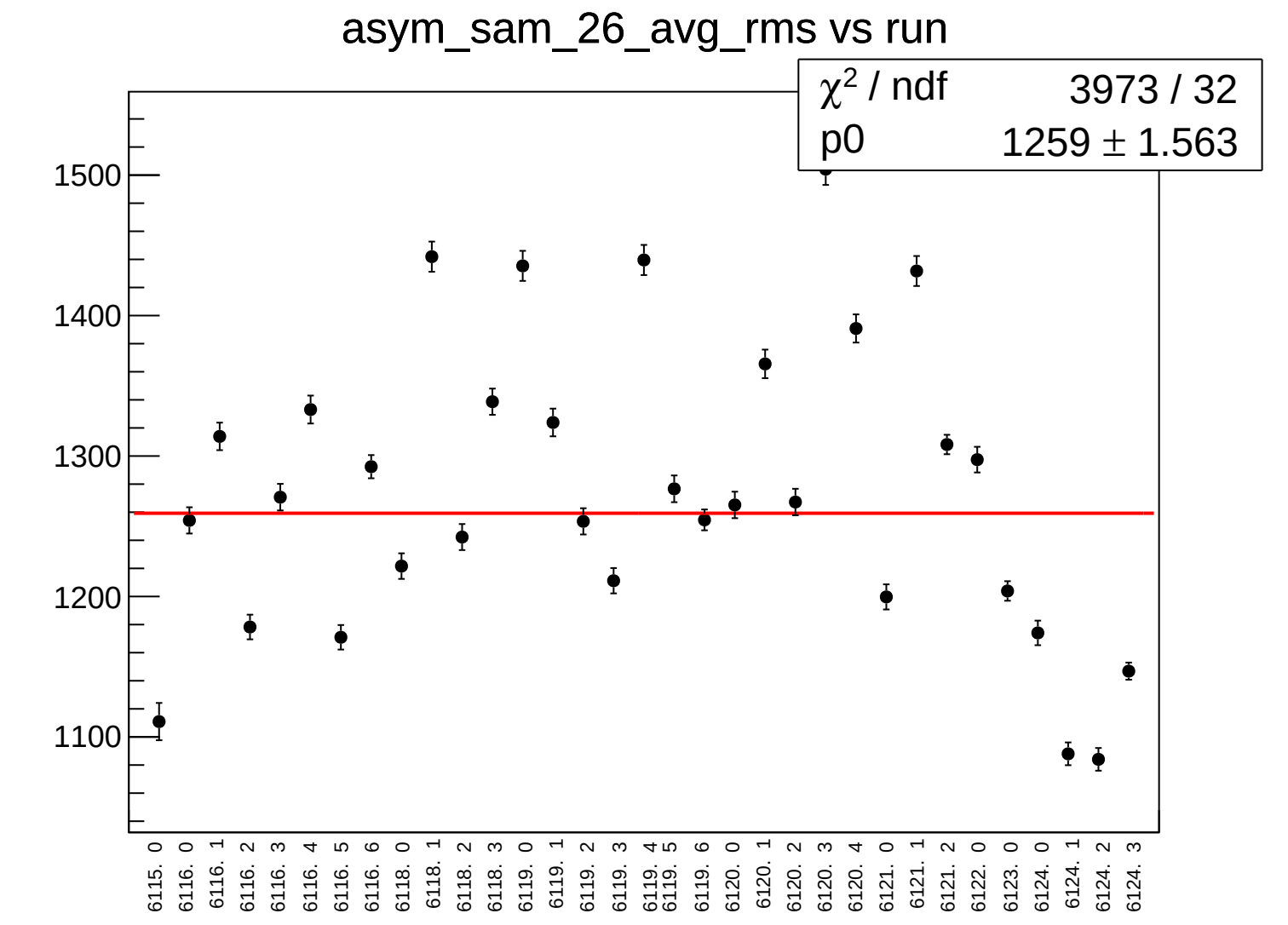

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5816 / 32
p0 103.6 ± 0.1288
180
170
160
150
140
130
120
110
100
90
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

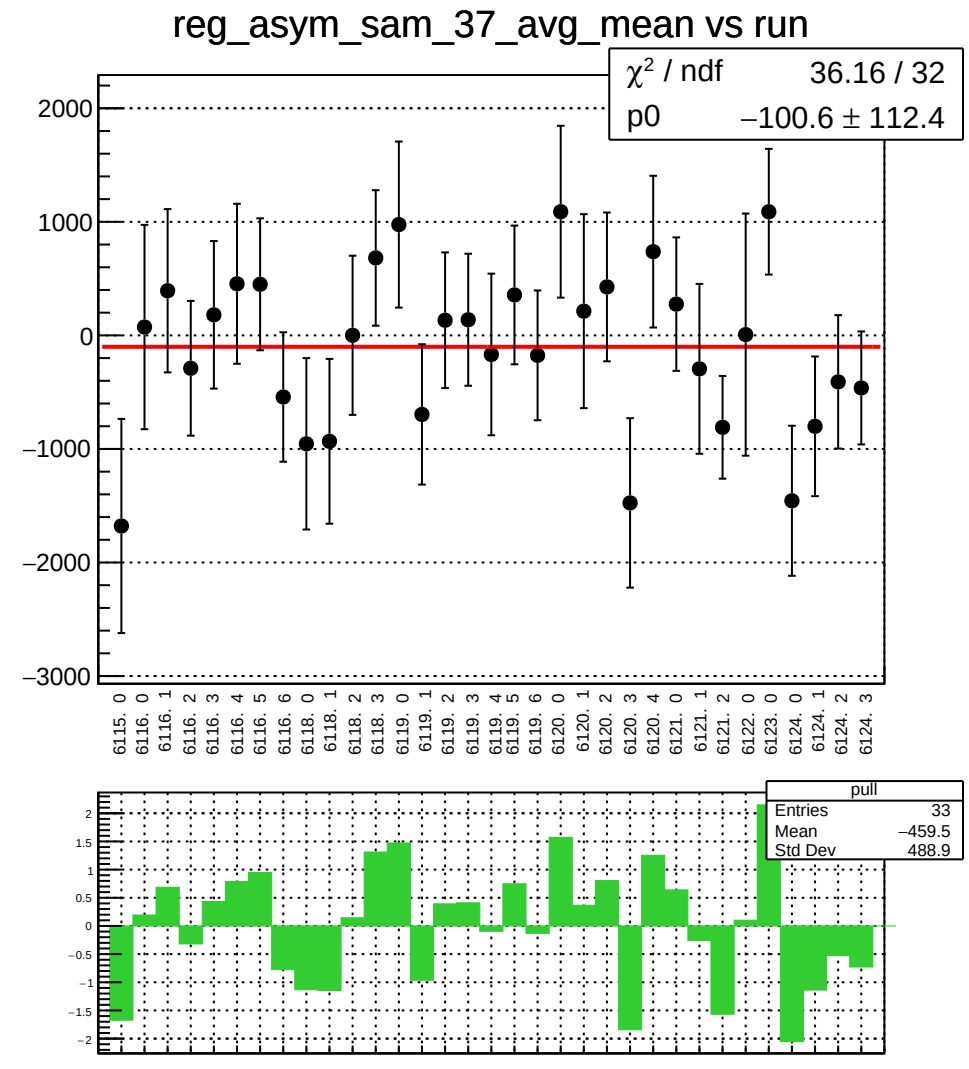

asym_sam_26_avg_correction_mean vs run
χ² / ndf 30.24 / 32
p0 −2813 ± 2202
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 246.6
Std Dev 235.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

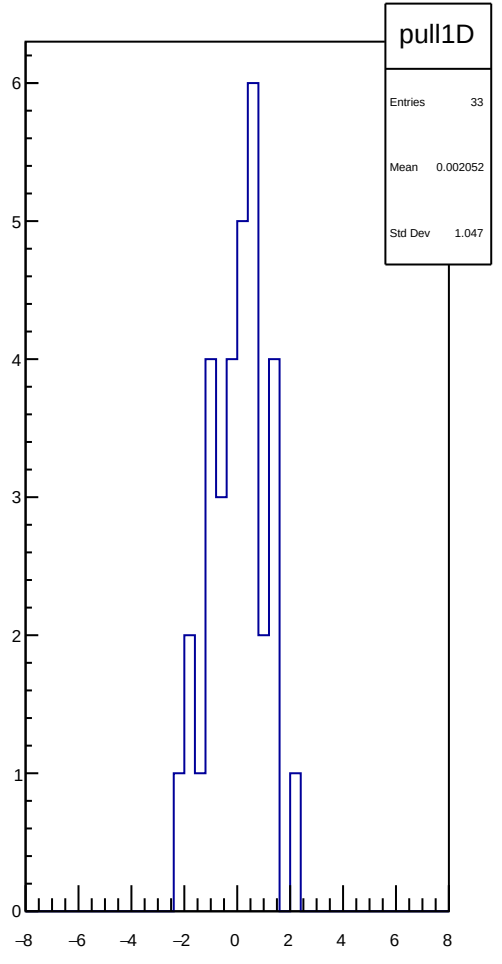

pull1D
Entries 33
Mean 0.008524
Std Dev 0.9572
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

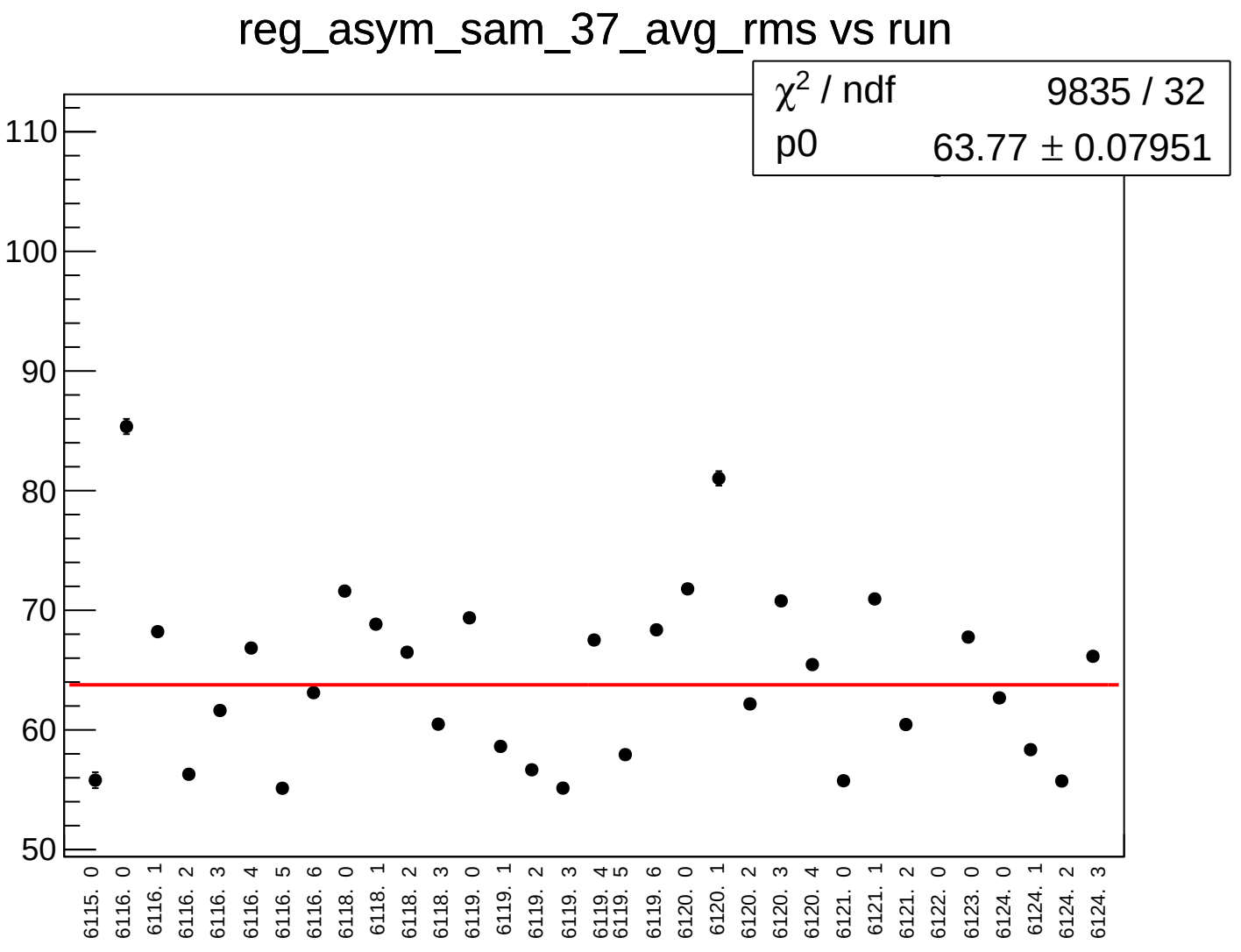

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4010 / 32
p0 1255 ± 1.557
1500
1400
1300
1200
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

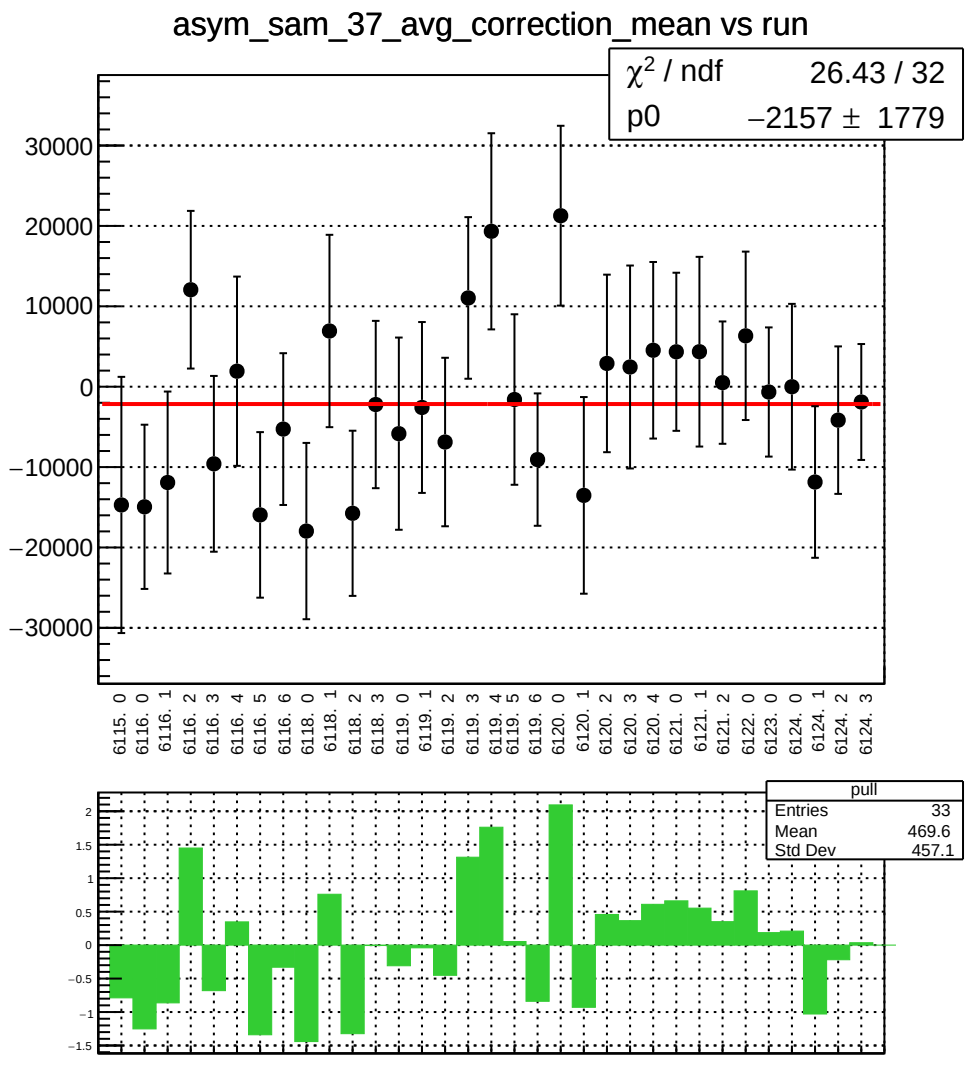

asym_sam_26_avg_mean vs run
χ² / ndf 29.4 / 32
p0 2899 ± 2210
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 314.7
Std Dev 303.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.006598
Std Dev 0.9438
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

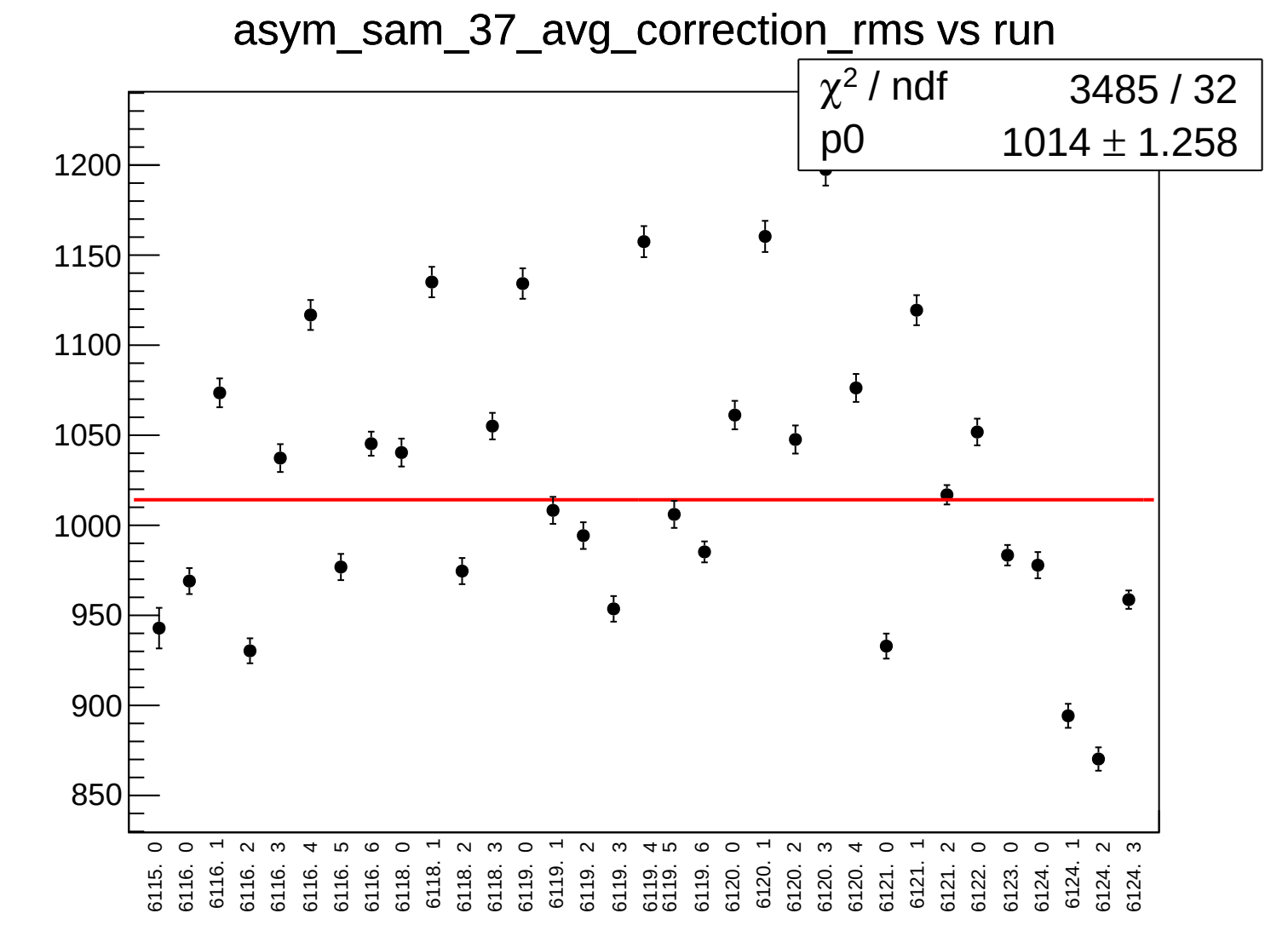

asym_sam_26_avg_rms vs run
χ² / ndf 3973 / 32
p0 1259 ± 1.563
1500
1400
1300
1200
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

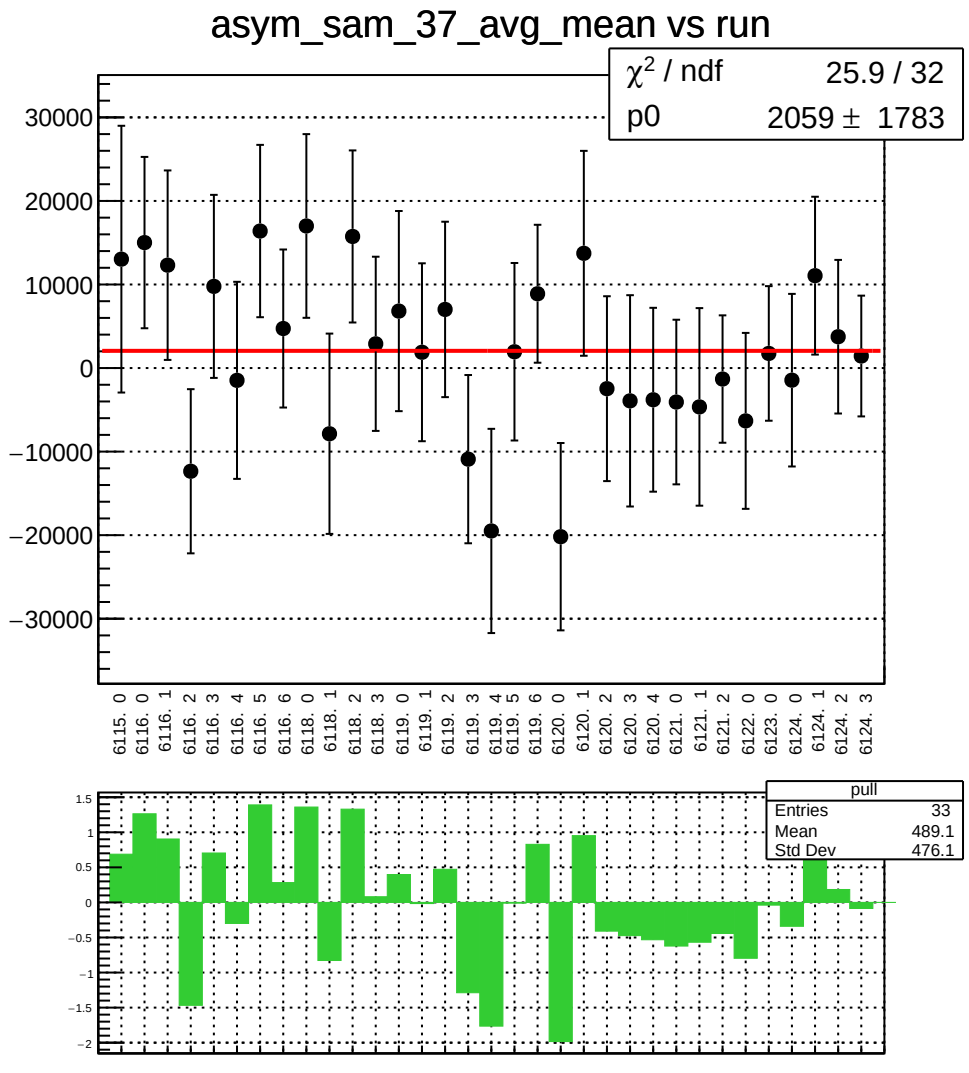

reg_asym_sam_37_avg_mean vs run
χ² / ndf 36.16 / 32
p0 −100.6 ± 112.4
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −459.5
Std Dev 488.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

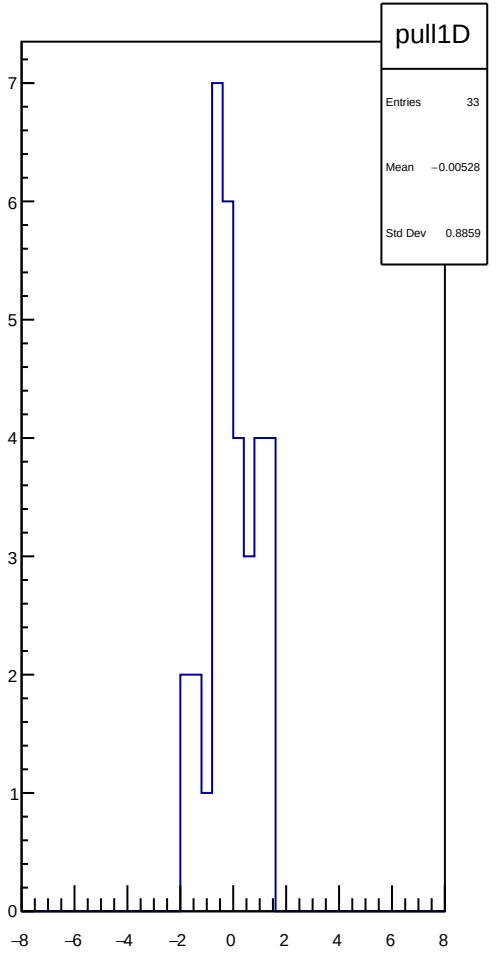

pull1D
Entries 33
Mean 0.002052
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

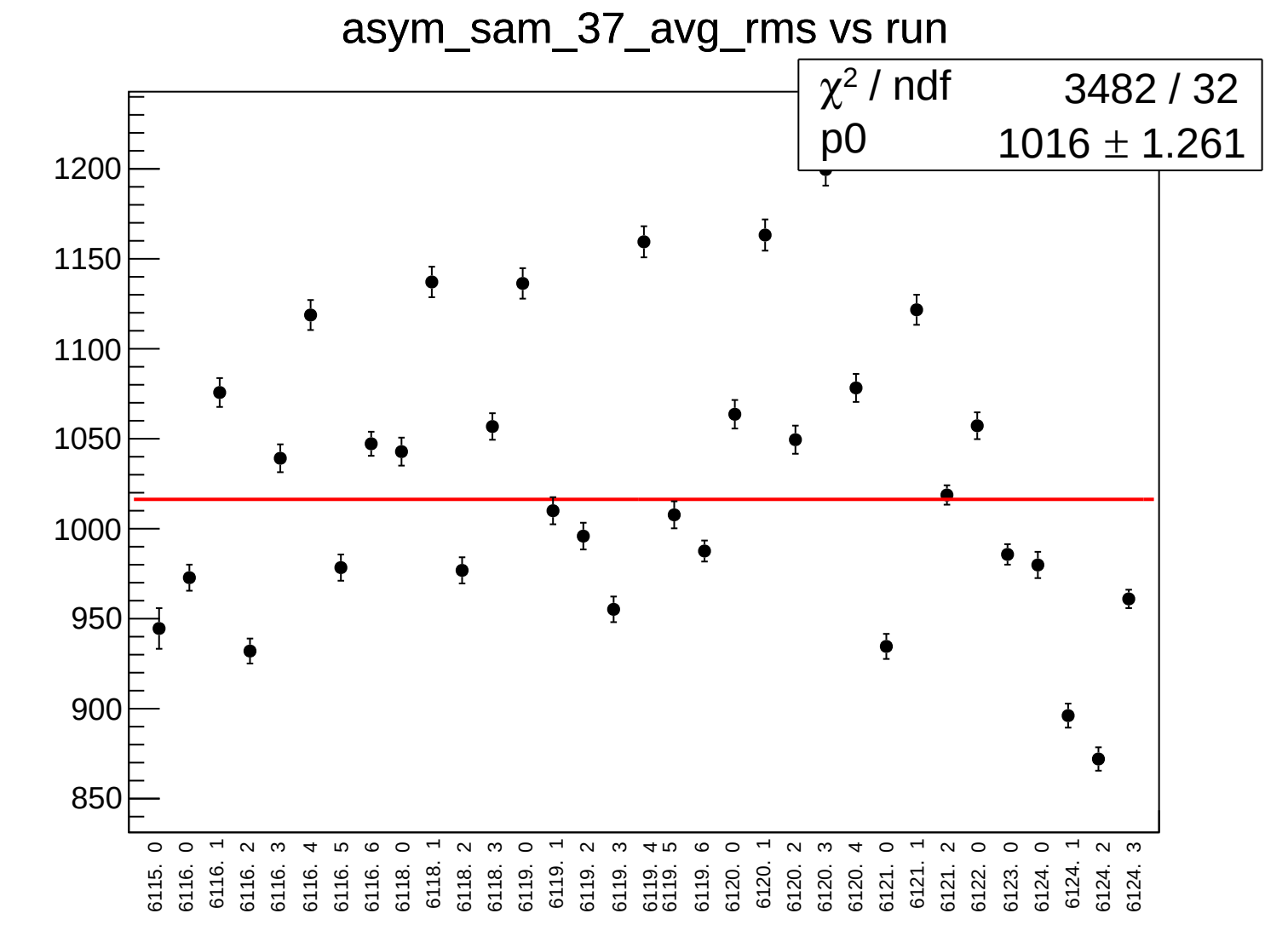

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 9835 / 32
p0 63.77 ± 0.07951
110
100
90
80
70
60
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

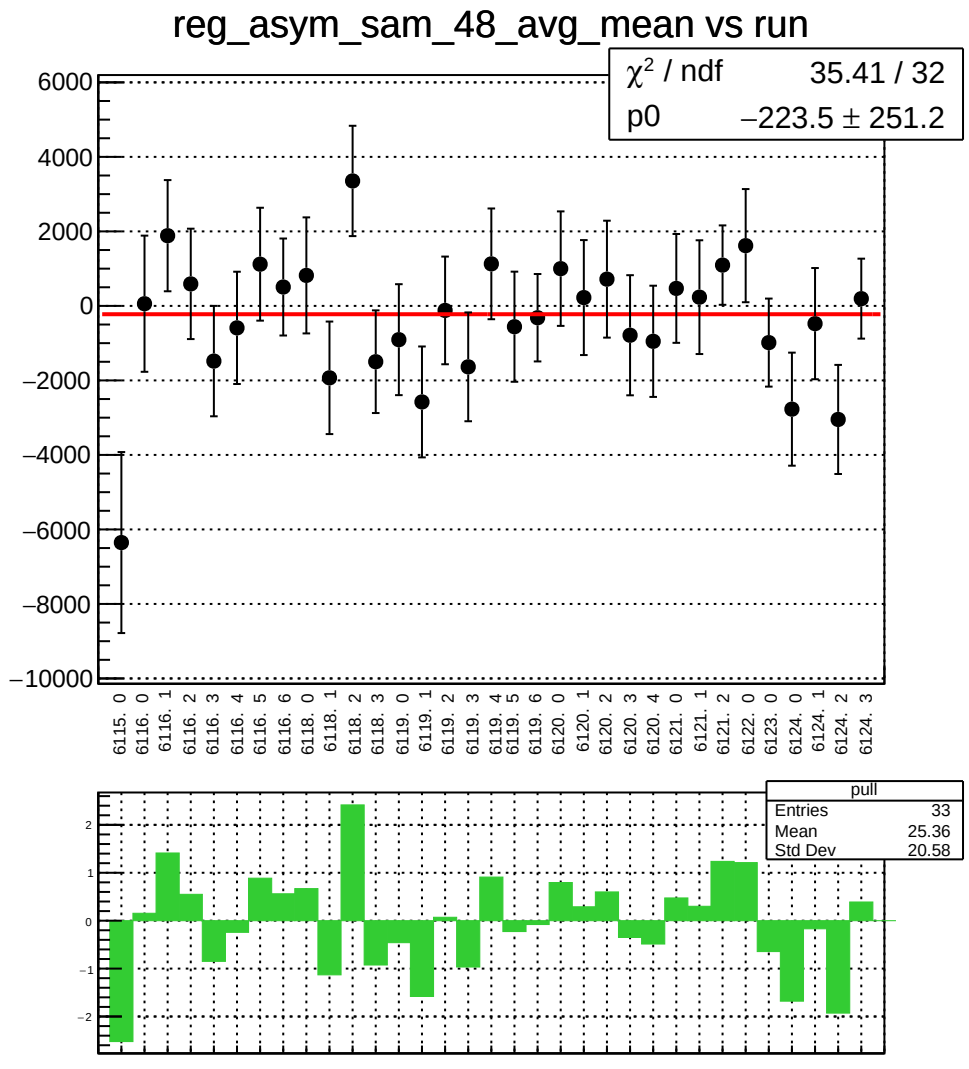

asym_sam_37_avg_correction_mean vs run
χ² / ndf 26.43 / 32
p0 −2157 ± 1779
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 469.6
Std Dev 457.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005391
Std Dev 0.8948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

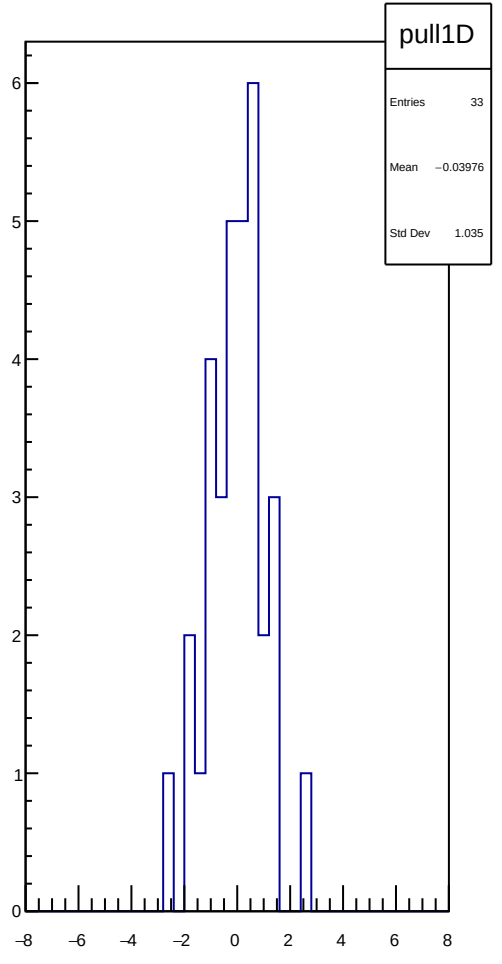

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3485 / 32
p0 1014 ± 1.258
1200
1150
1100
1050
1000
950
900
850
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

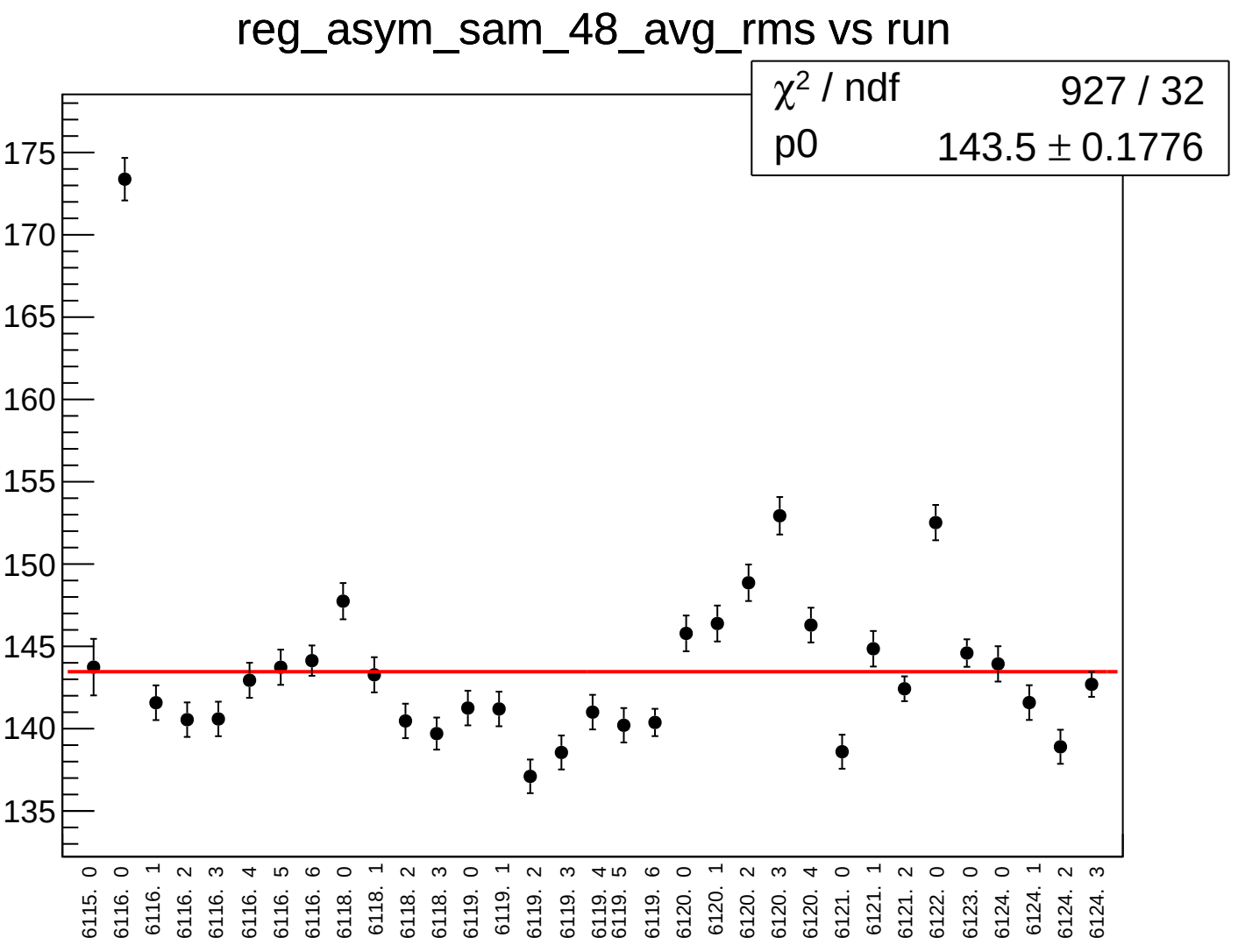

asym_sam_37_avg_mean vs run
χ² / ndf 25.9 / 32
p0 2059 ± 1783
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 489.1
Std Dev 476.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

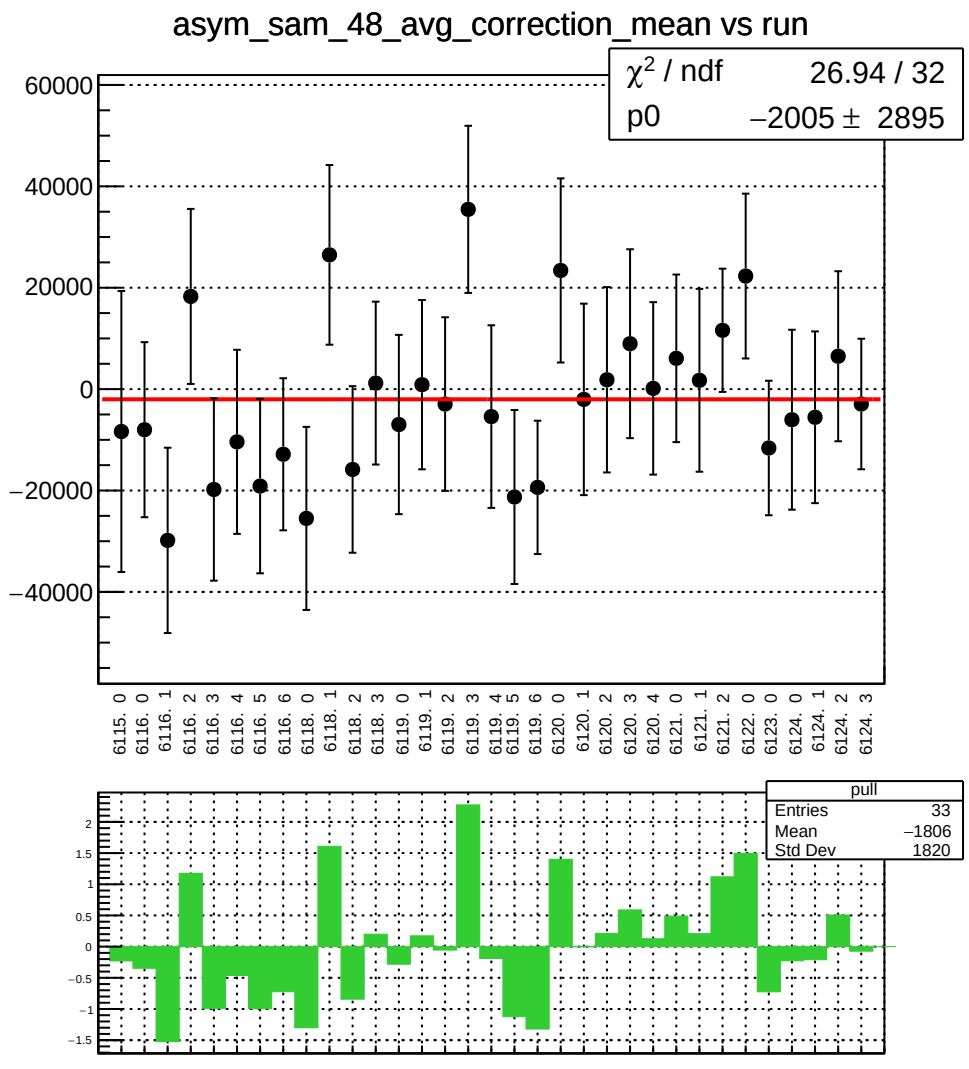

pull1D
Entries 33
Mean −0.00528
Std Dev 0.8859
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

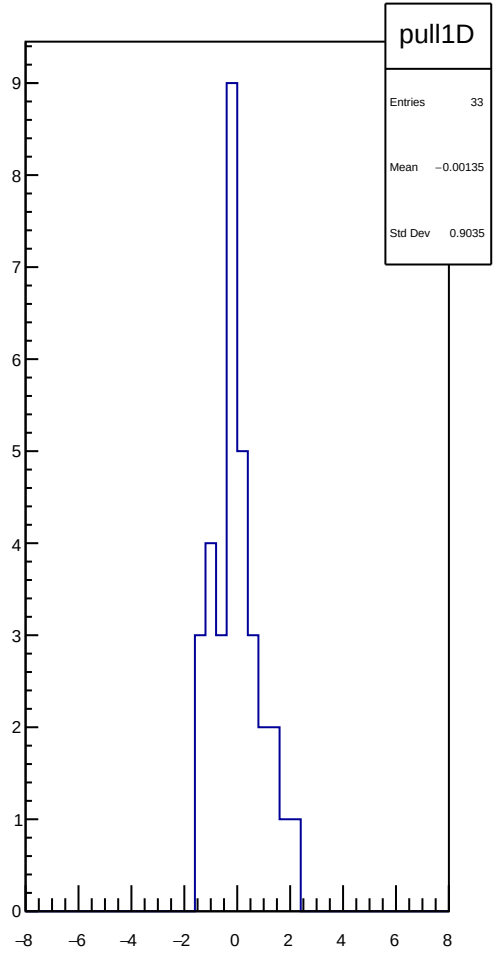

asym_sam_37_avg_rms vs run
χ² / ndf 3482 / 32
p0 1016 ± 1.261
1200
1150
1100
1050
1000
950
900
850
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

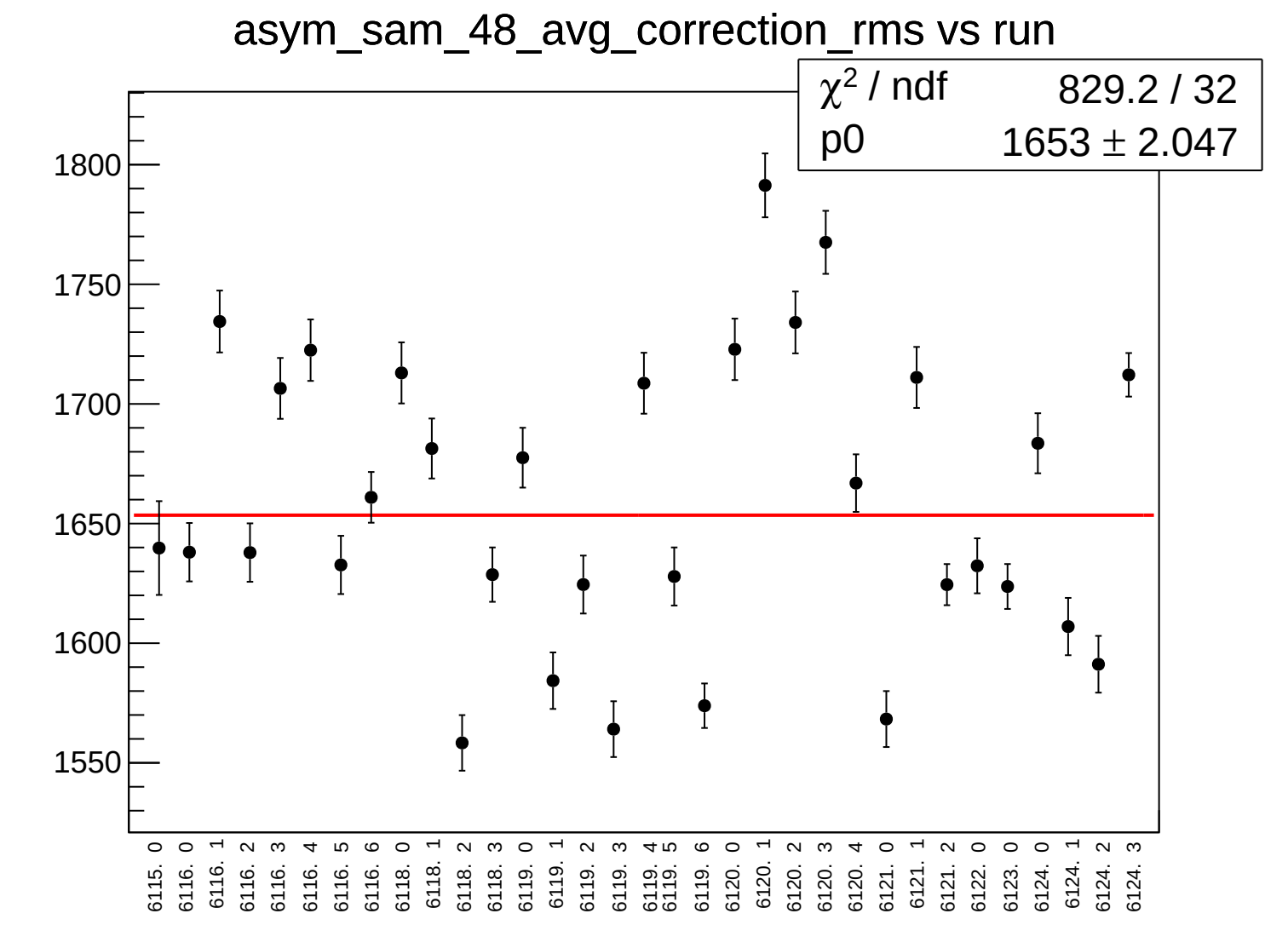

reg_asym_sam_48_avg_mean vs run
χ² / ndf 35.41 / 32
p0 −223.5 ± 251.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 25.36
Std Dev 20.58
2
1
0
−1
−2

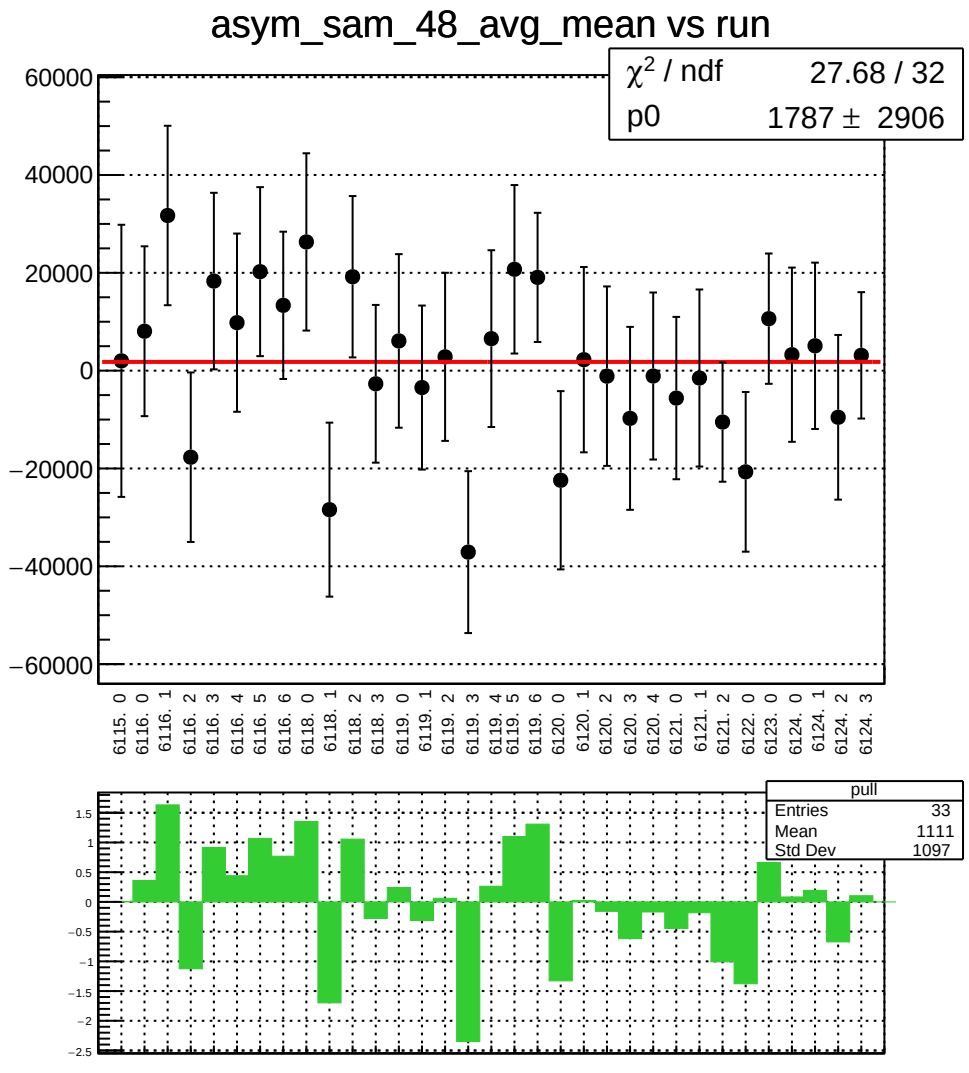

pull1D
Entries 33
Mean −0.03976
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

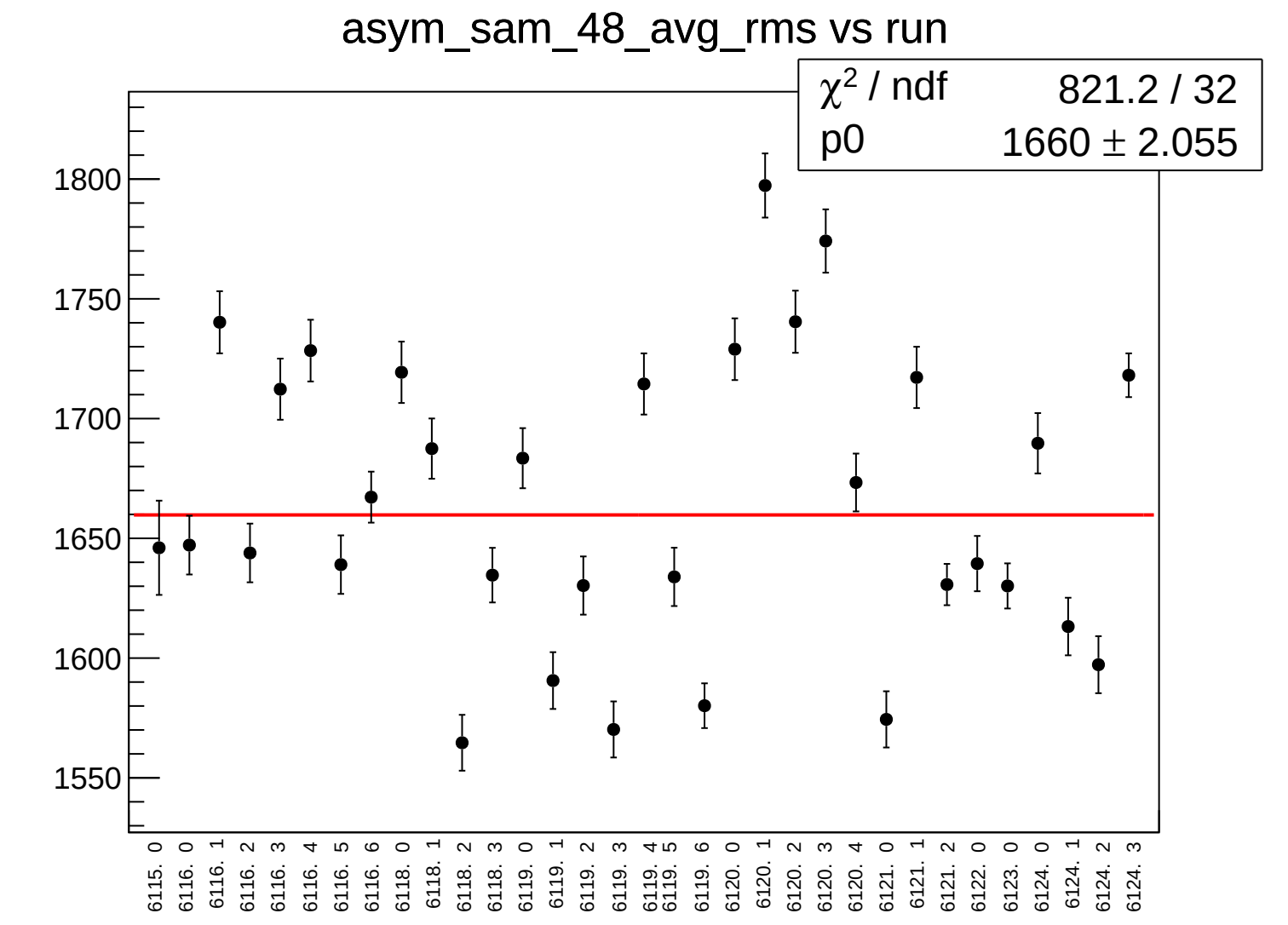

reg_asym_sam_48_avg_rms vs run
χ² / ndf 927 / 32
p0 143.5 ± 0.1776
175
170
165
160
155
150
145
140
135
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

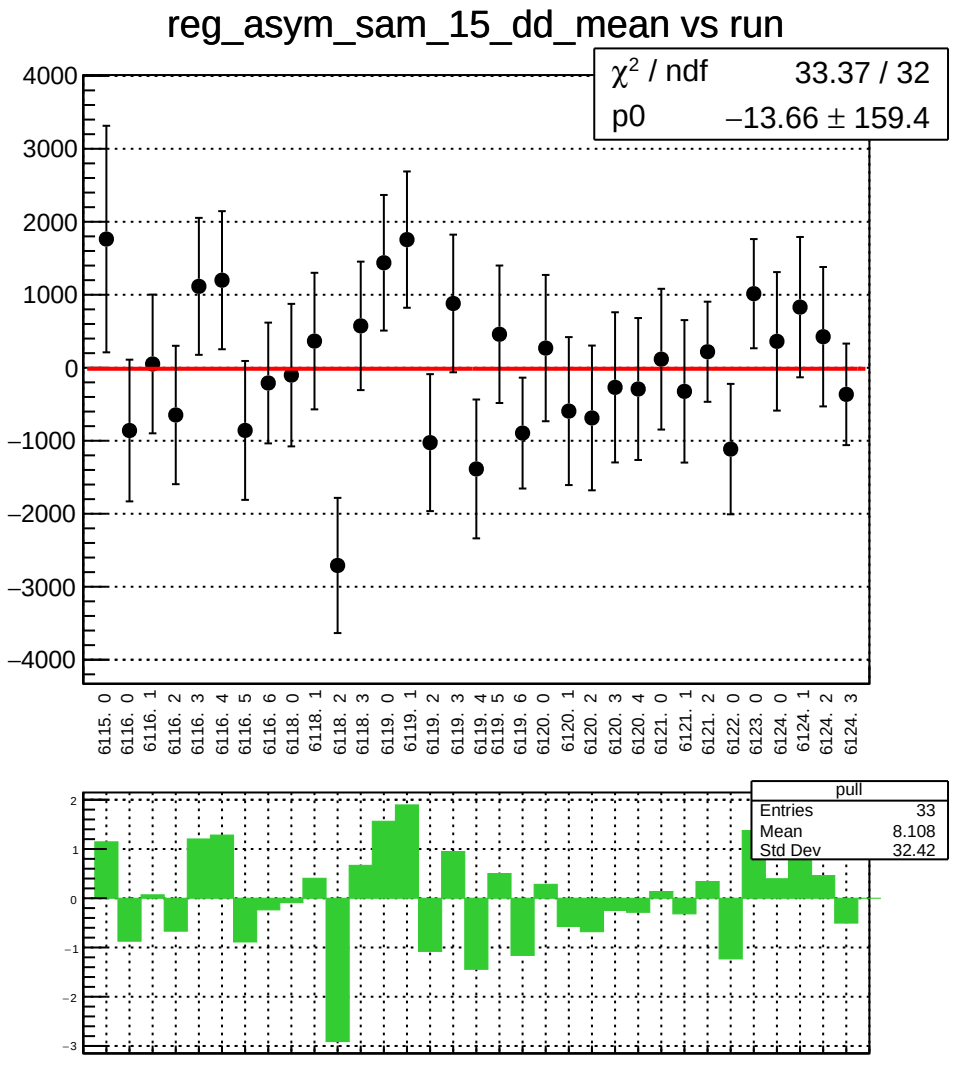

asym_sam_48_avg_correction_mean vs run
χ² / ndf 26.94 / 32
p0 −2005 ± 2895
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1806
Std Dev 1820
2
1.5
1
0.5
0
−0.5
−1
−1.5

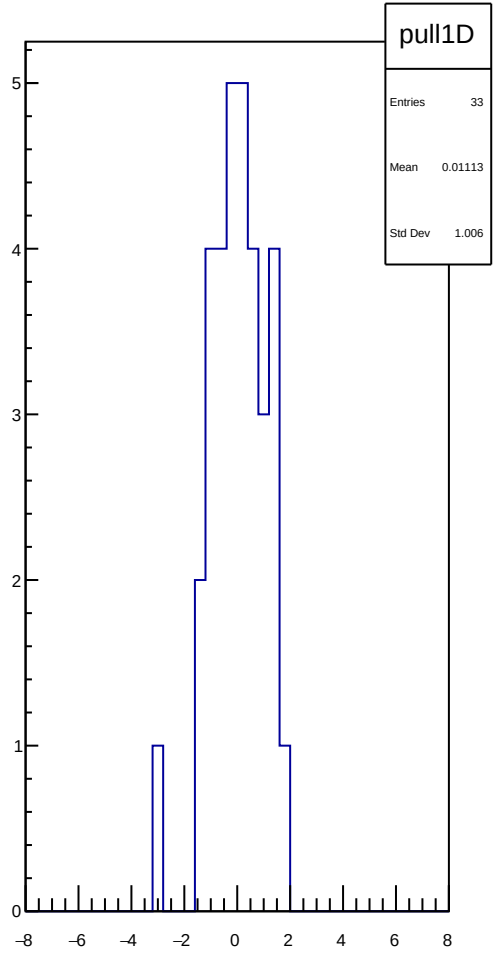

pull1D
Entries 33
Mean −0.00135
Std Dev 0.9035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

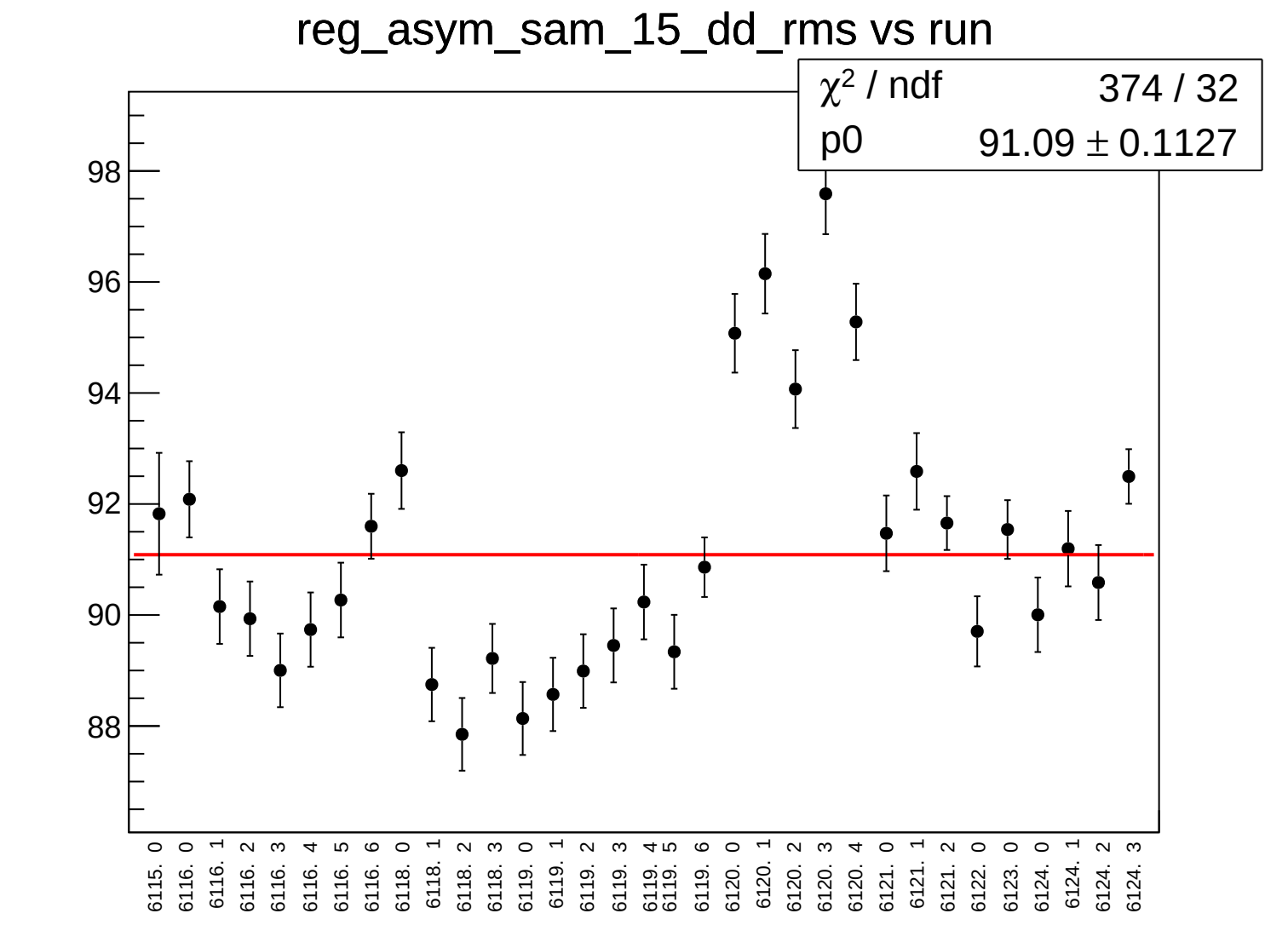

asym_sam_48_avg_correction_rms vs run
χ² / ndf 829.2 / 32
p0 1653 ± 2.047
1800
1750
1700
1650
1600
1550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

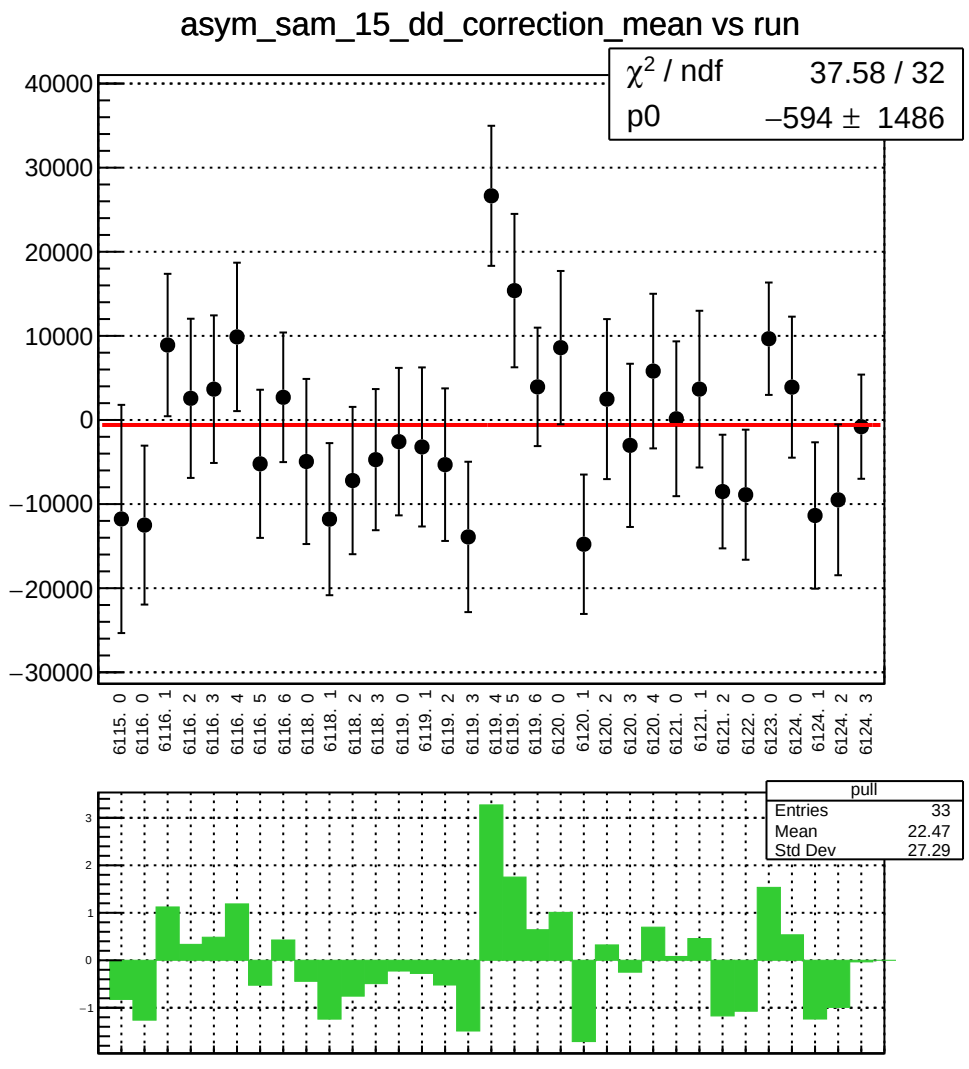

asym_sam_48_avg_mean vs run
χ² / ndf 27.68 / 32
p0 1787 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1111
Std Dev 1097
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.002265
Std Dev 0.9159
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

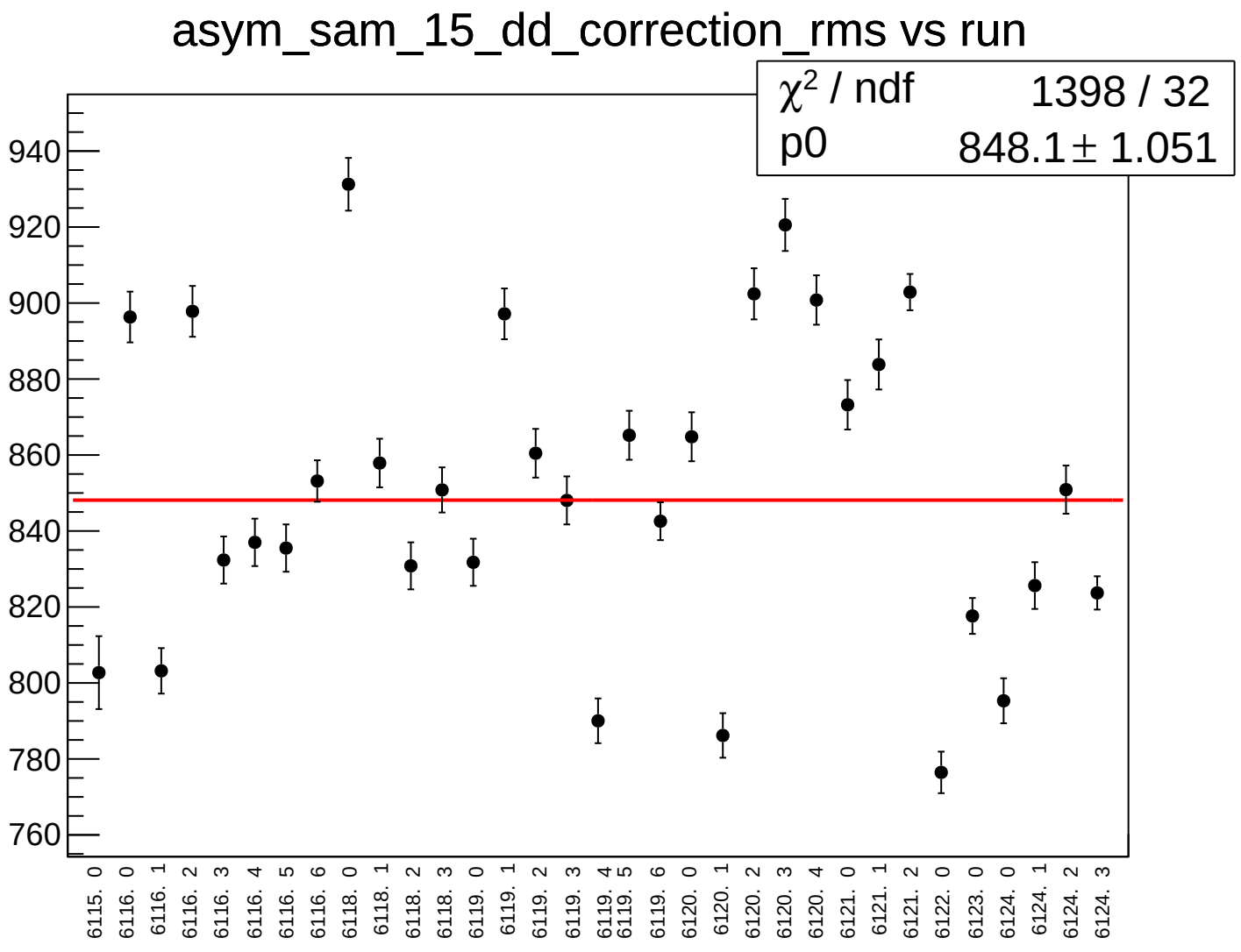

asym_sam_48_avg_rms vs run
χ² / ndf 821.2 / 32
p0 1660 ± 2.055
1800
1750
1700
1650
1600
1550
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

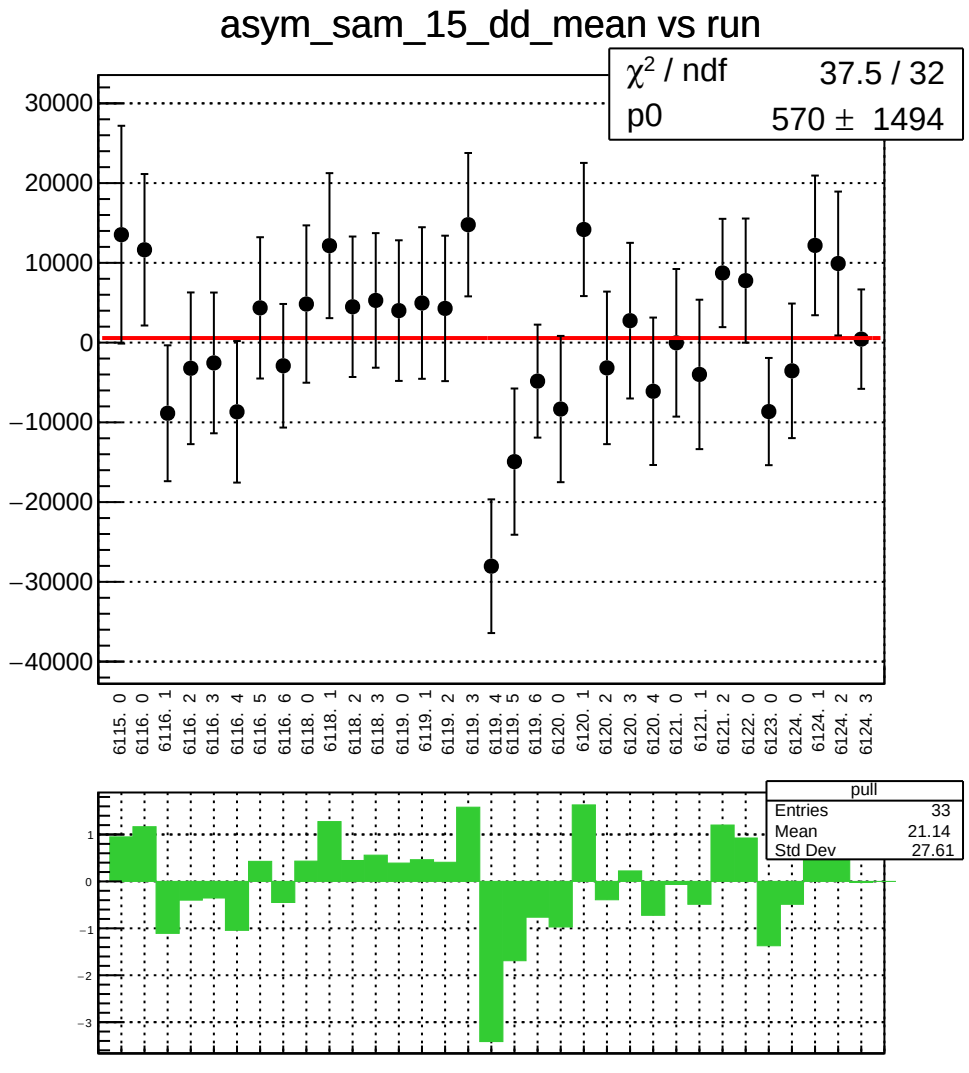

reg_asym_sam_15_dd_mean vs run
χ² / ndf 33.37 / 32
p0 −13.66 ± 159.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 8.108
Std Dev 32.42
2
1
0
−1
−2
−3

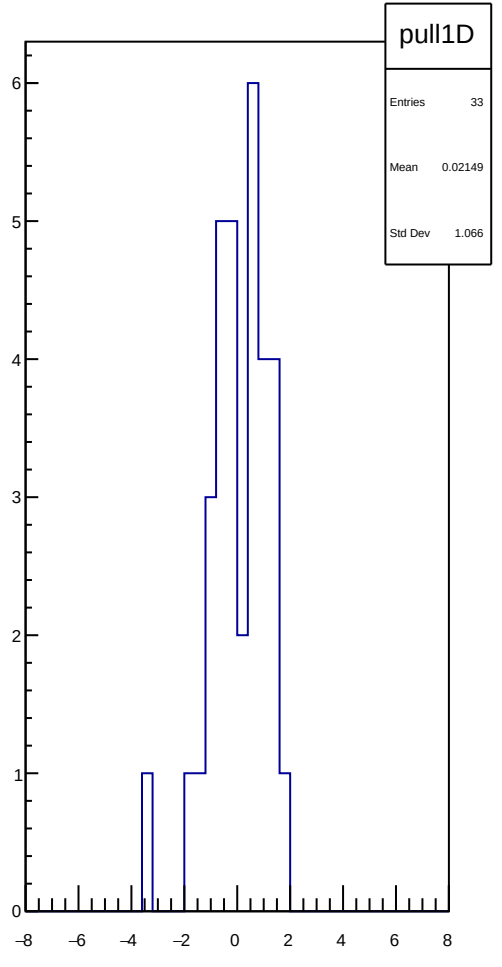

pull1D
Entries 33
Mean 0.01113
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

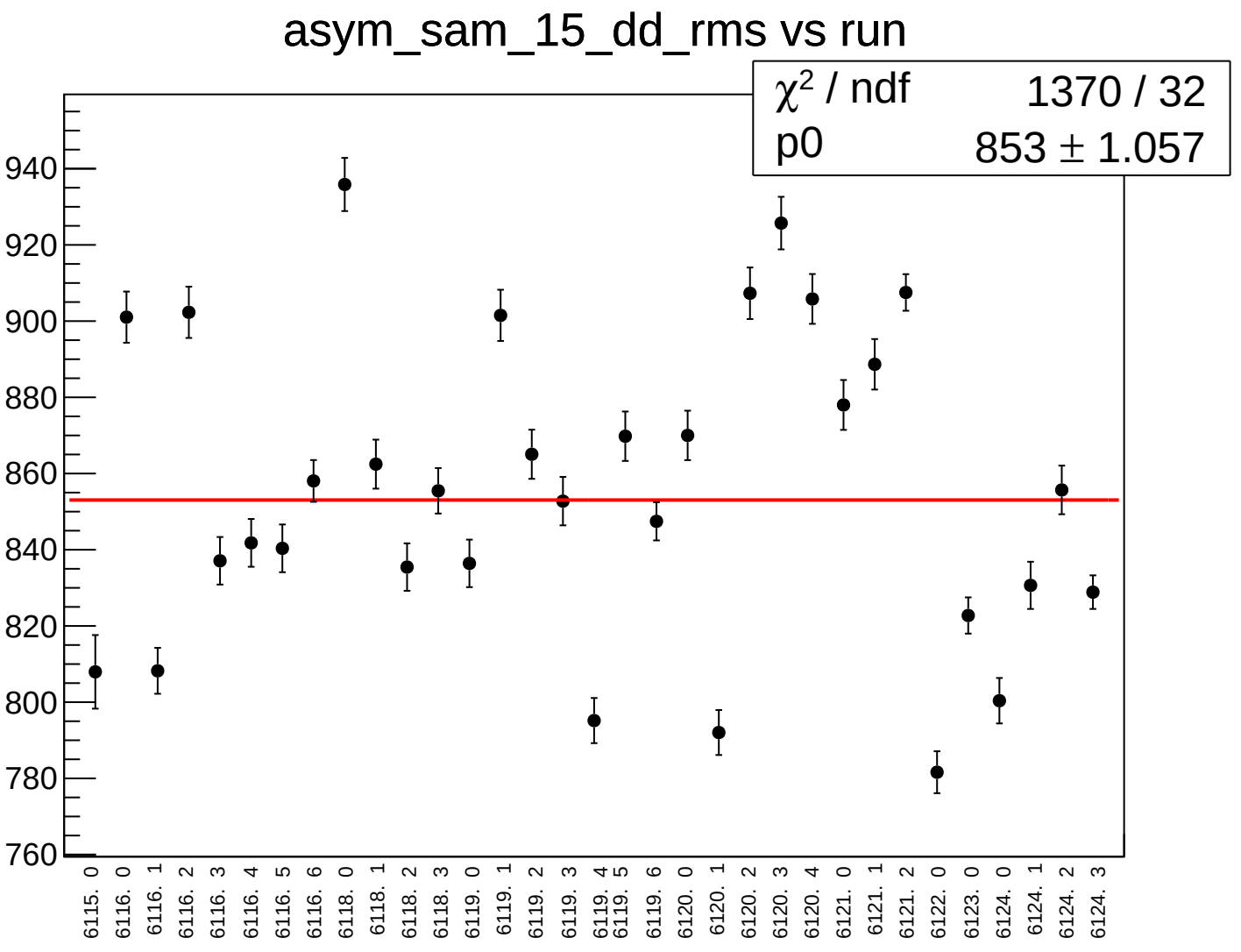

reg_asym_sam_15_dd_rms vs run
χ² / ndf 374 / 32
p0 91.09 ± 0.1127
98
96
94
92
90
88
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

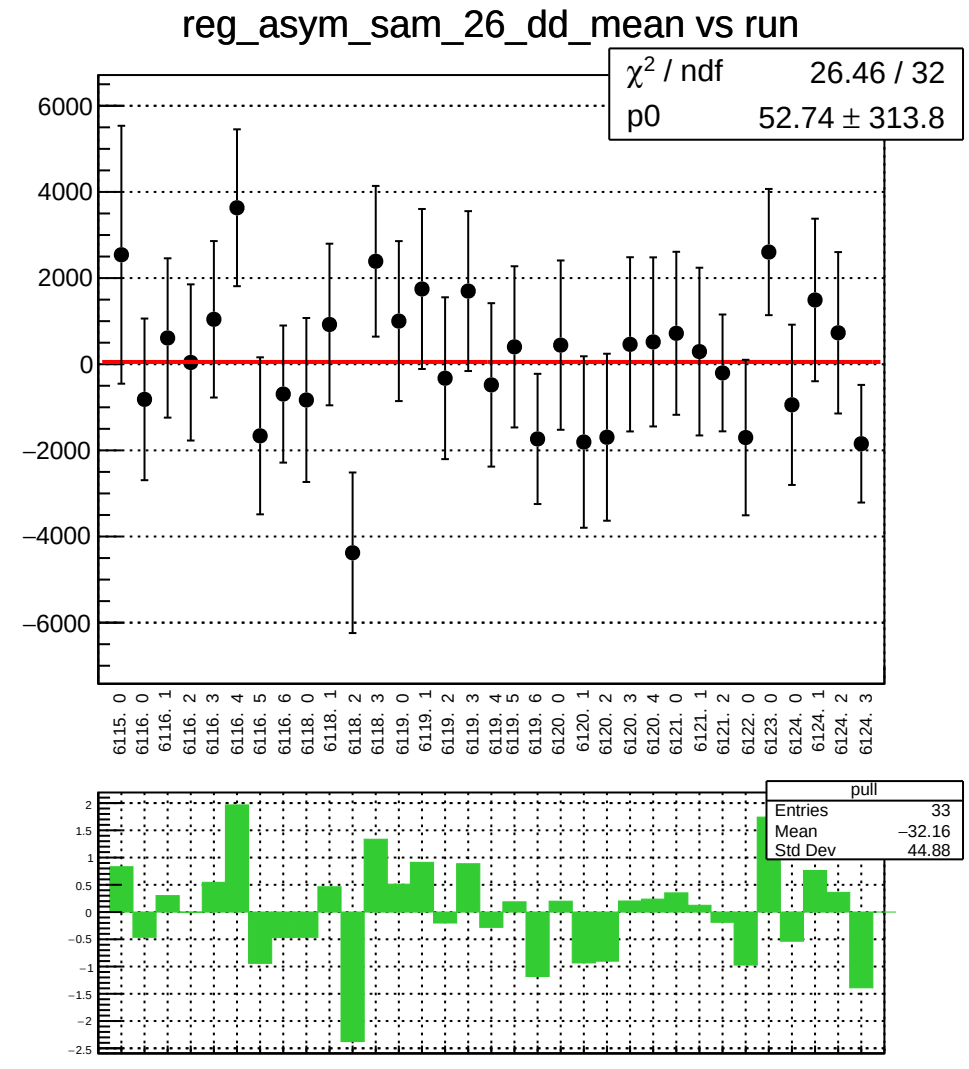

asym_sam_15_dd_correction_mean vs run
χ² / ndf 37.58 / 32
p0 −594 ± 1486
40000
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 22.47
Std Dev 27.29
3
2
1
0
−1
pull1D
Entries 33
Mean −0.01973
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

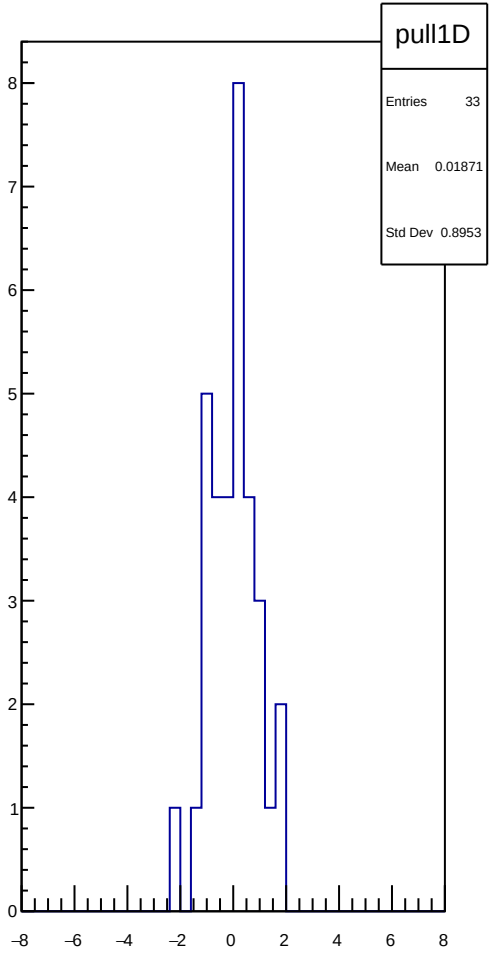

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1398 / 32
p0 848.1 ± 1.051
940
920
900
880
860
840
820
800
780
760
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

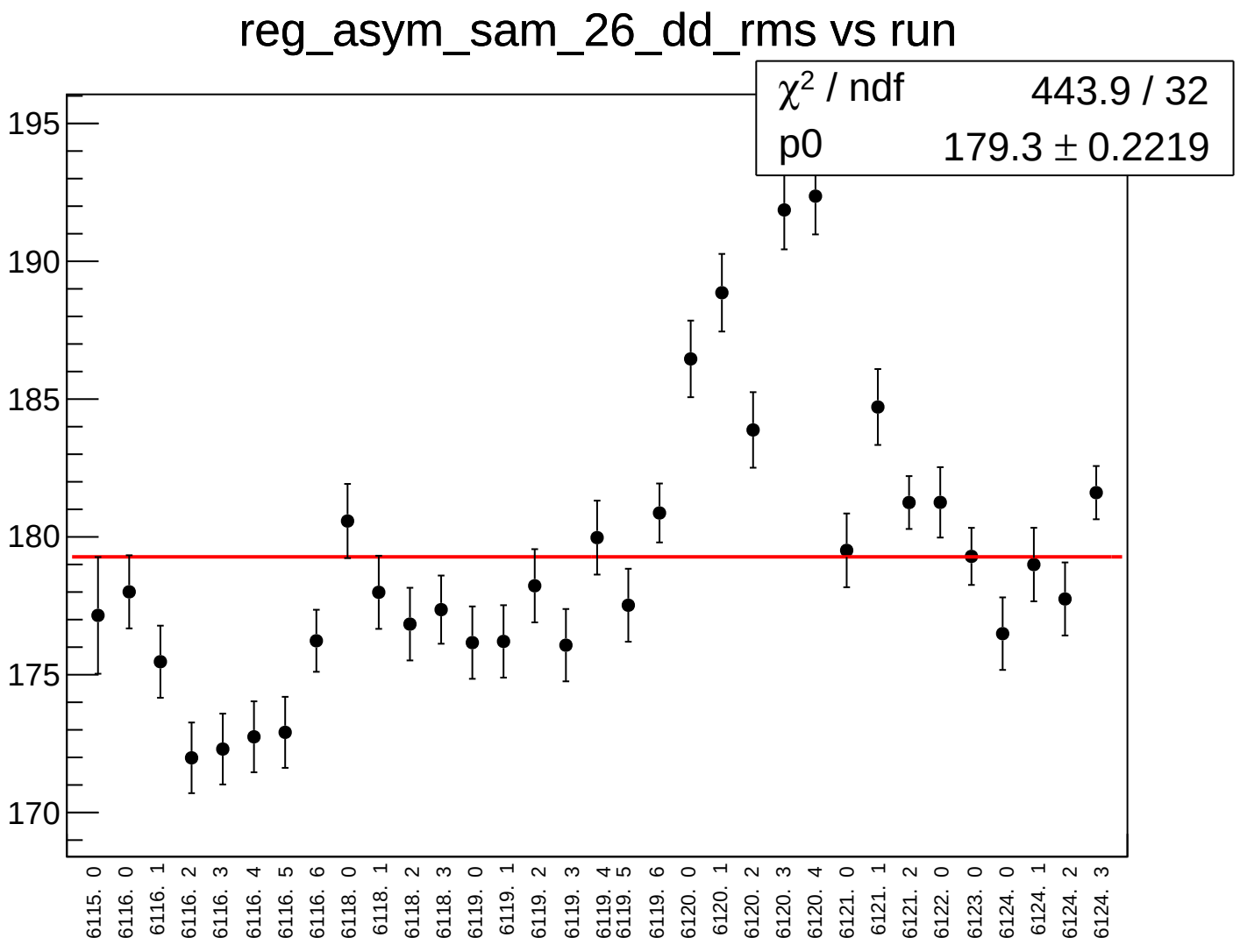

asym_sam_15_dd_mean vs run
χ² / ndf 37.5 / 32
p0 570 ± 1494
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 21.14
Std Dev 27.61
1
0
−1
−2
−3

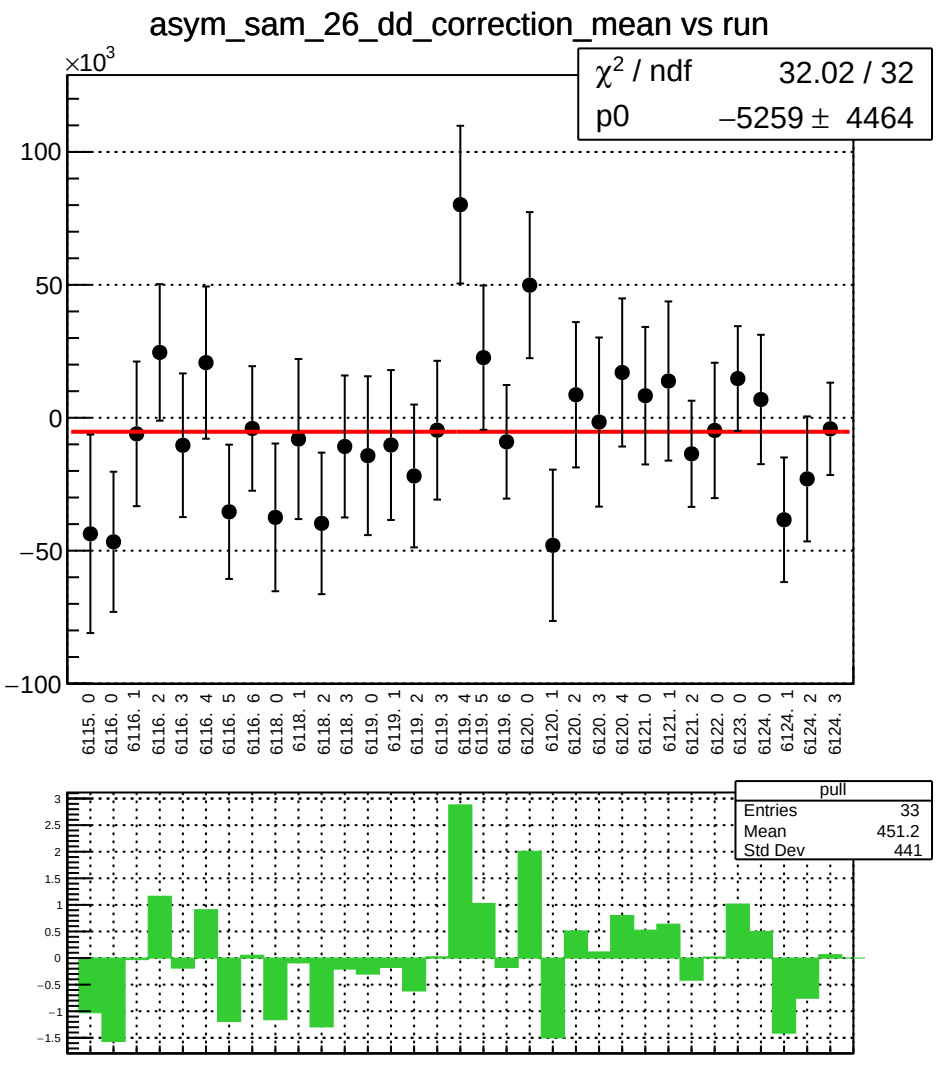

pull1D
Entries 33
Mean 0.02149
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

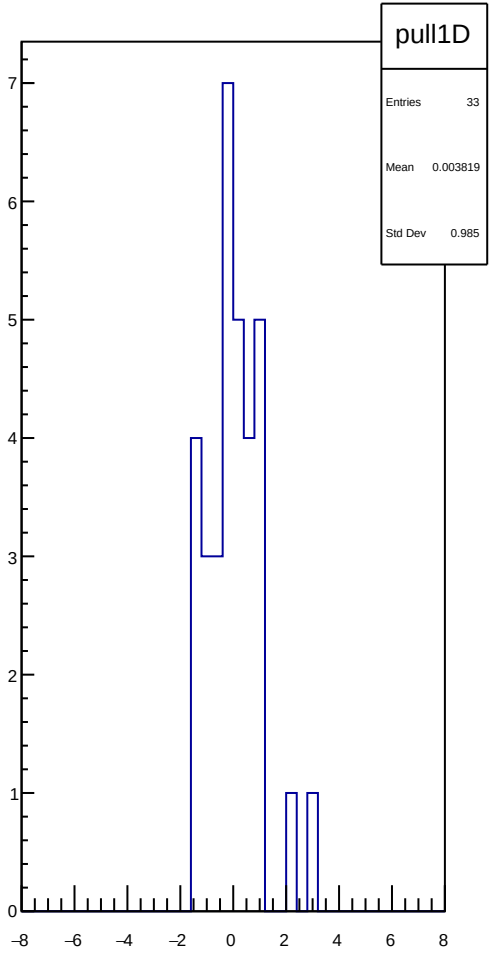

asym_sam_15_dd_rms vs run
χ² / ndf 1370 / 32
p0 853 ± 1.057
940
920
900
880
860
840
820
800
780
760
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

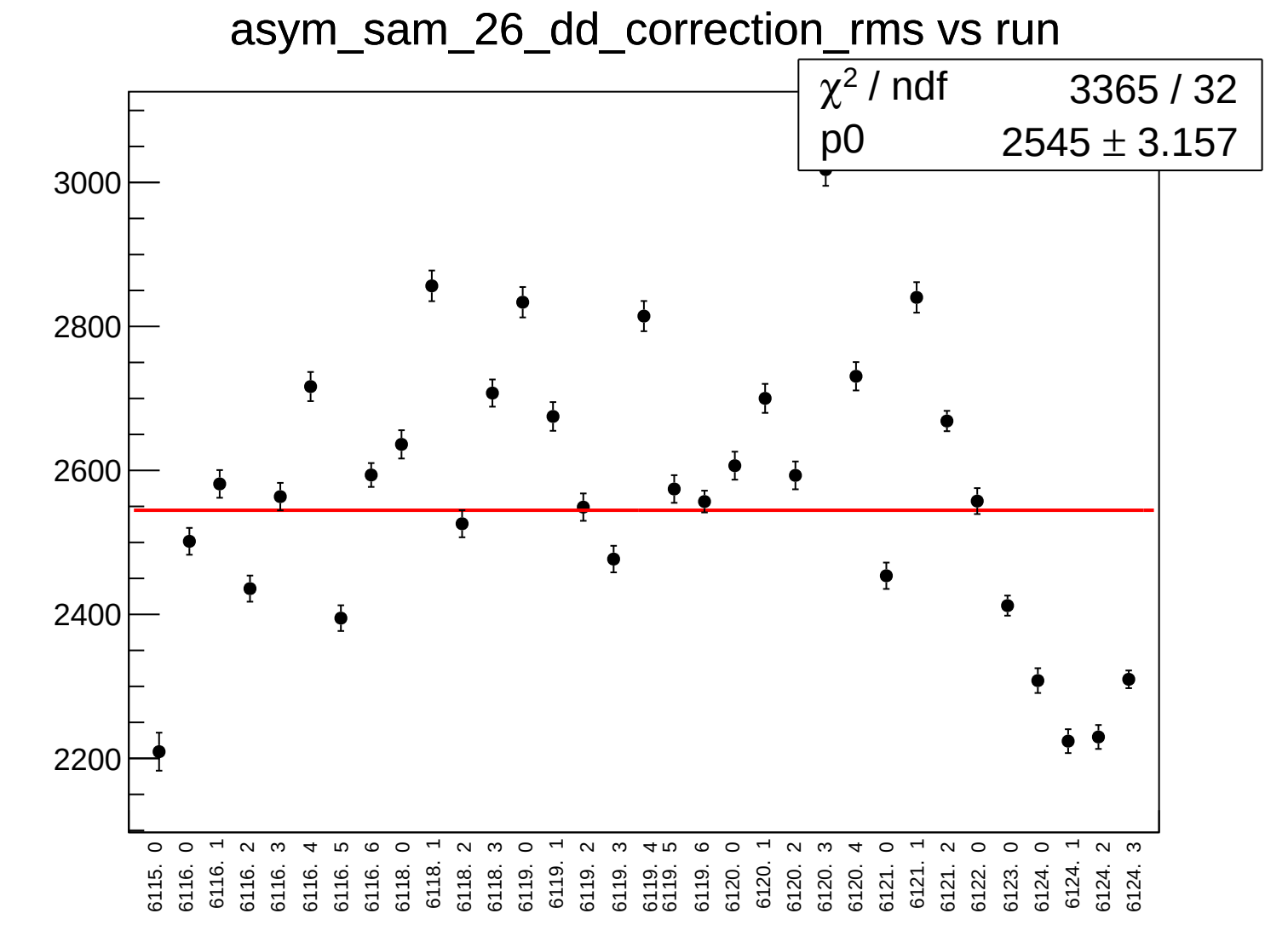

reg_asym_sam_26_dd_mean vs run
χ² / ndf 26.46 / 32
p0 52.74 ± 313.8
6000
4000
2000
0
−2000
−4000
−6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −32.16
Std Dev 44.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

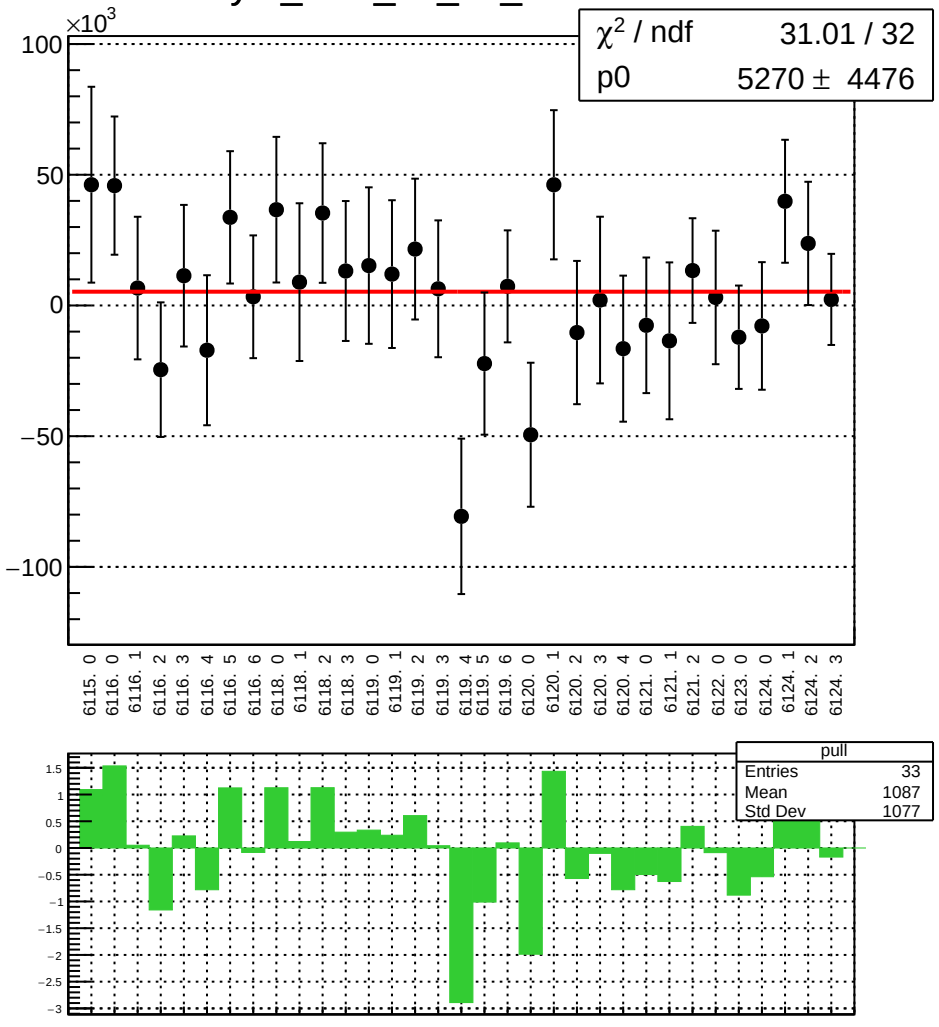

pull1D
Entries 33
Mean 0.01871
Std Dev 0.8953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

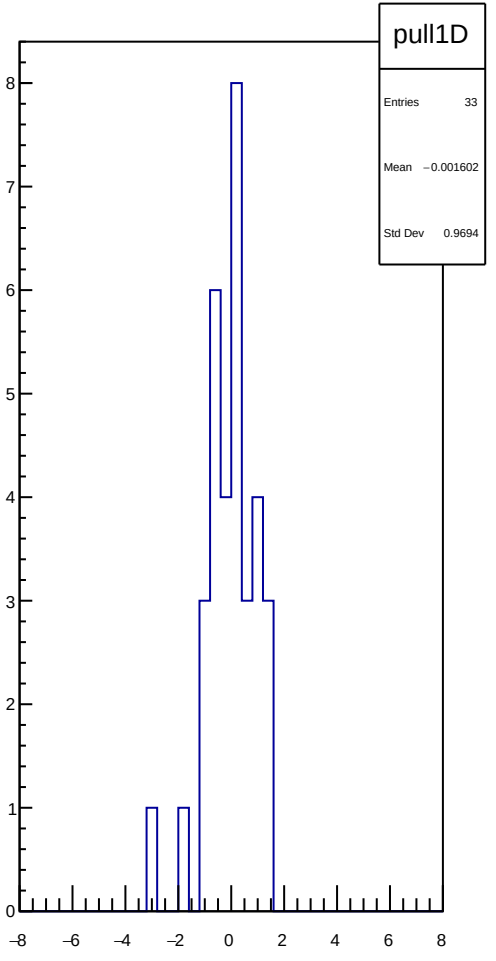

reg_asym_sam_26_dd_rms vs run
χ² / ndf 443.9 / 32
p0 179.3 ± 0.2219
195
190
185
180
175
170
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

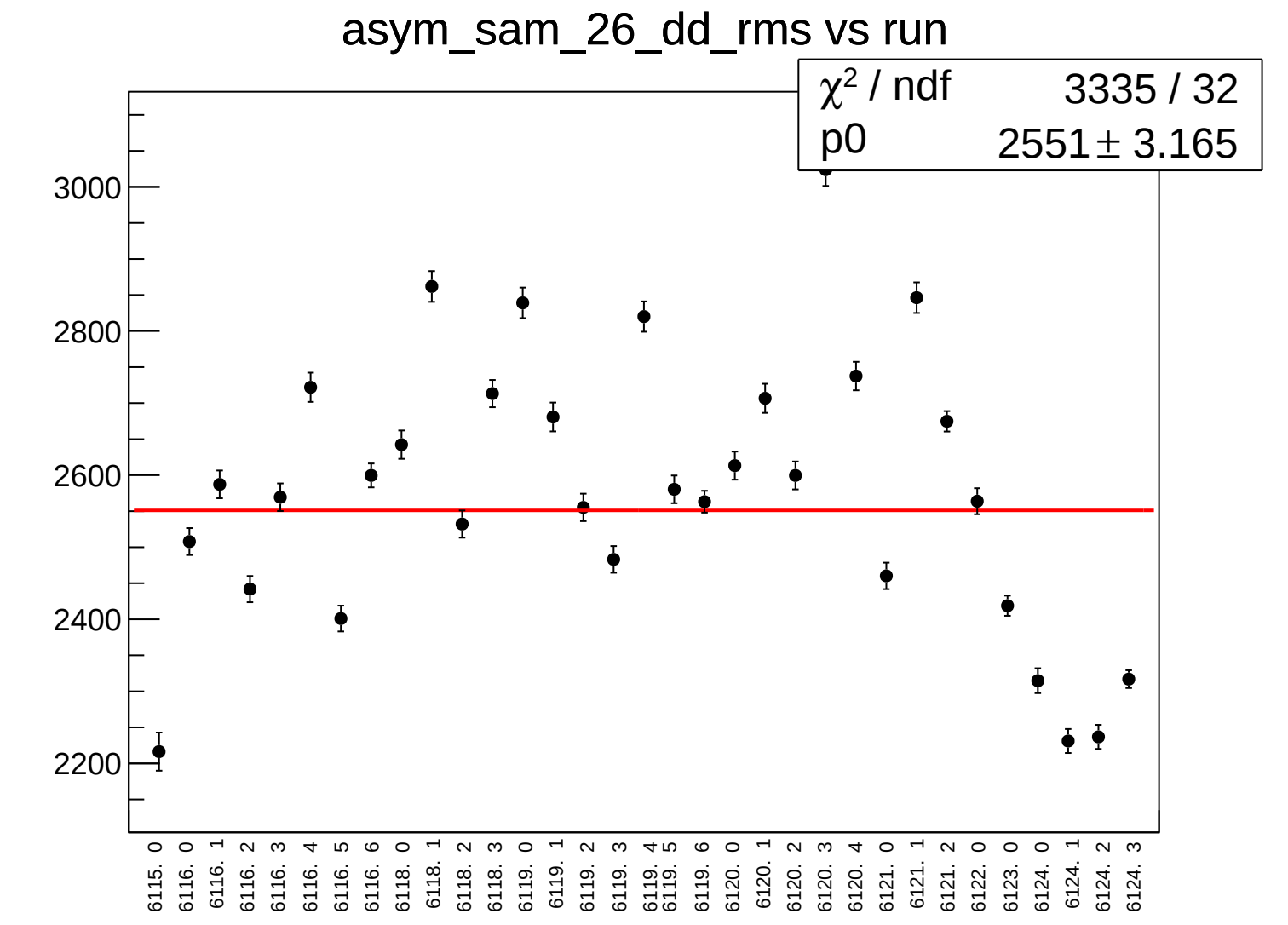

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 32.02 / 32
p0 −5259 ± 4464
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 451.2
Std Dev 441
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

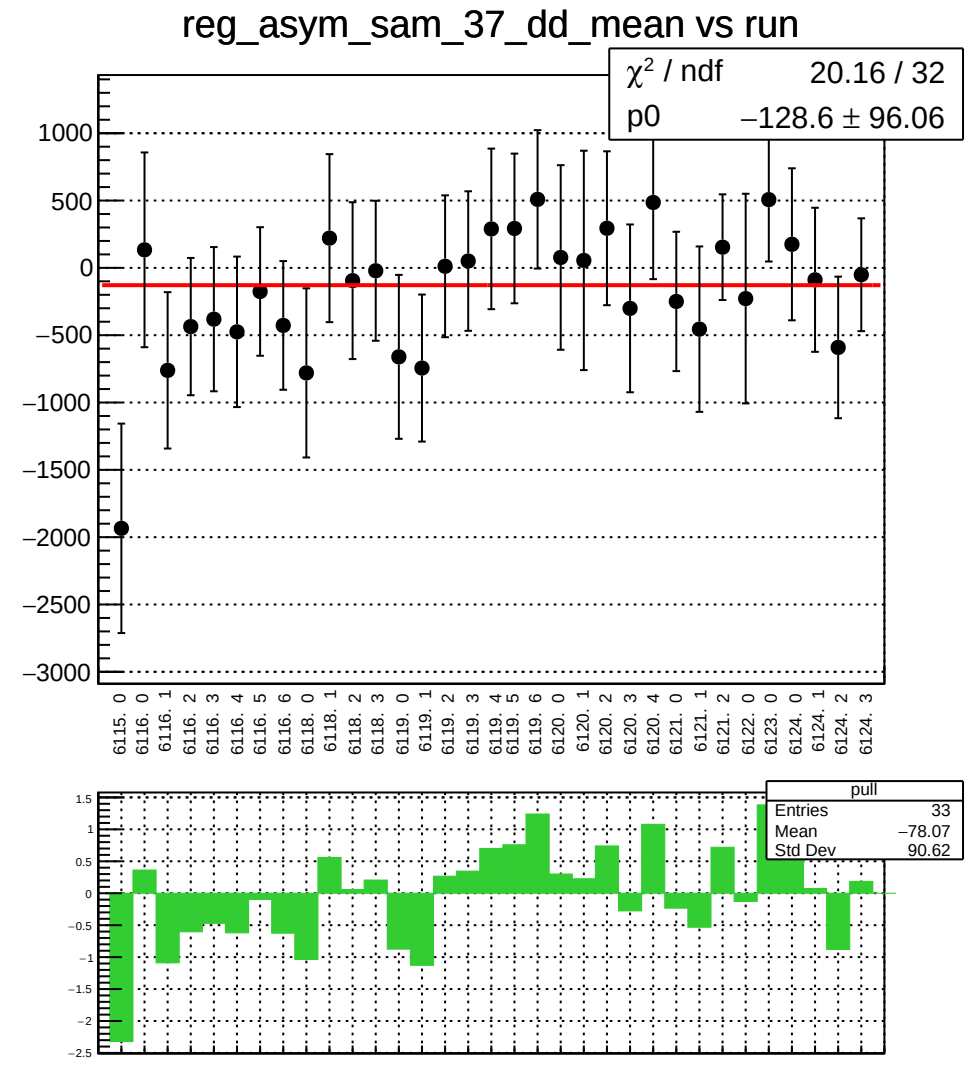

pull1D
Entries 33
Mean 0.003819
Std Dev 0.985
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

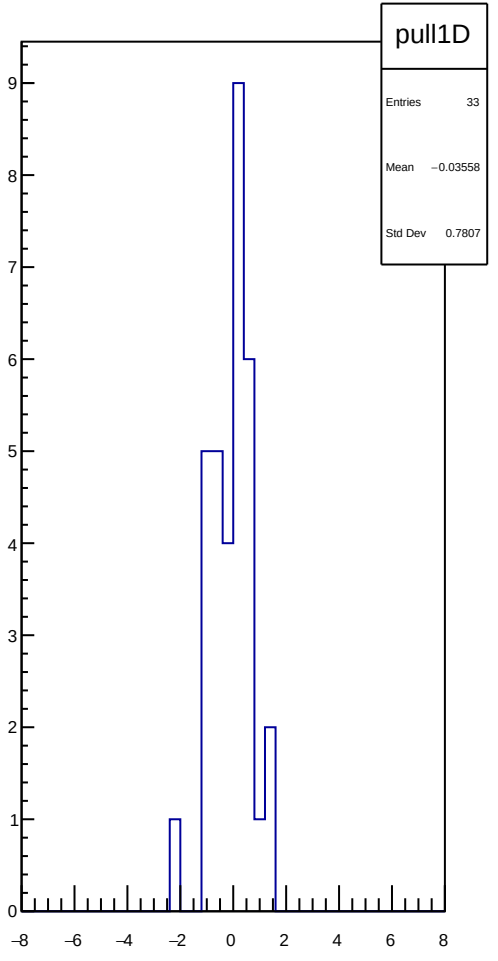

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3365 / 32
p0 2545 ± 3.157
3000
2800
2600
2400
2200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

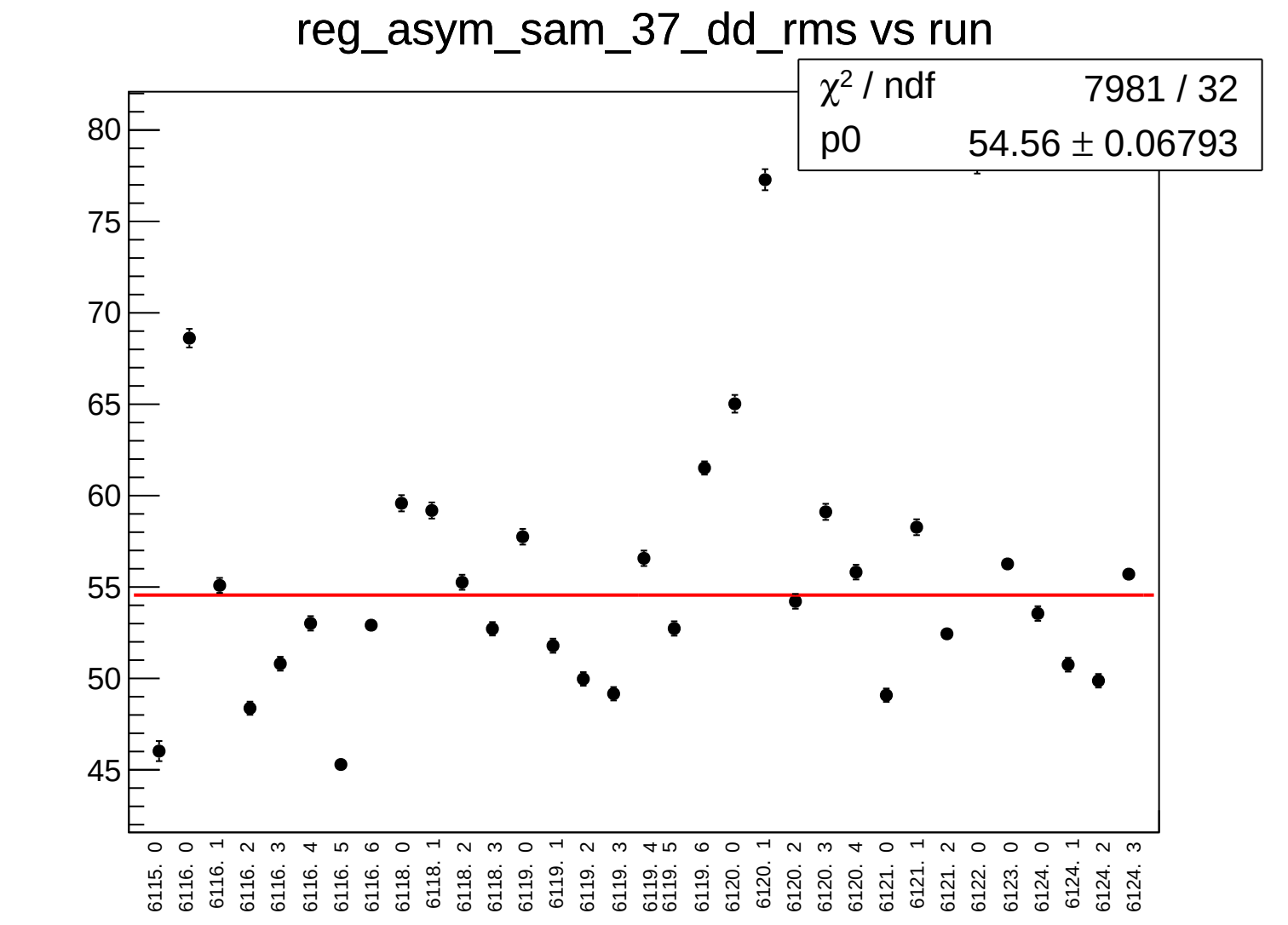

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 31.01 / 32
p0 5270 ± 4476
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1087
Std Dev 1077
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

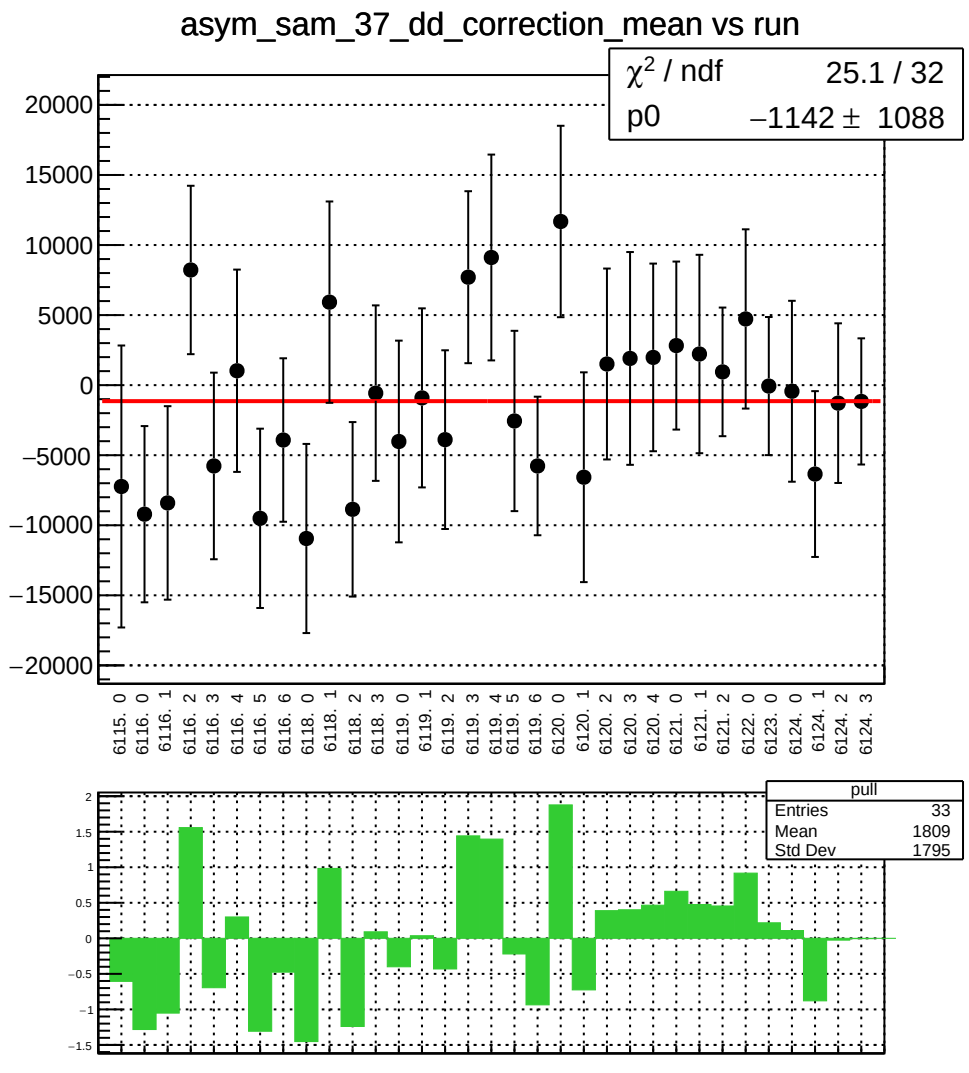

pull1D
Entries 33
Mean −0.001602
Std Dev 0.9694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

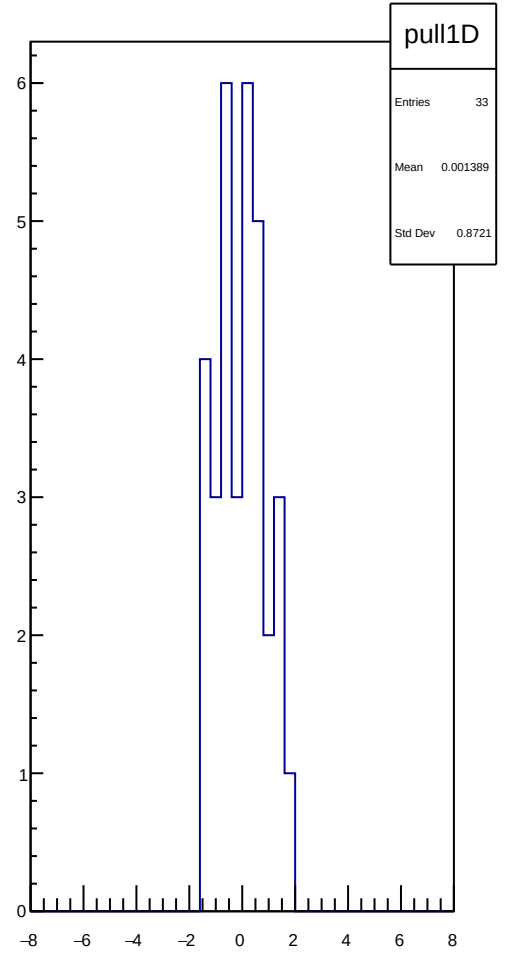

asym_sam_26_dd_rms vs run
χ² / ndf 3335 / 32
p0 2551 ± 3.165
3000
2800
2600
2400
2200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

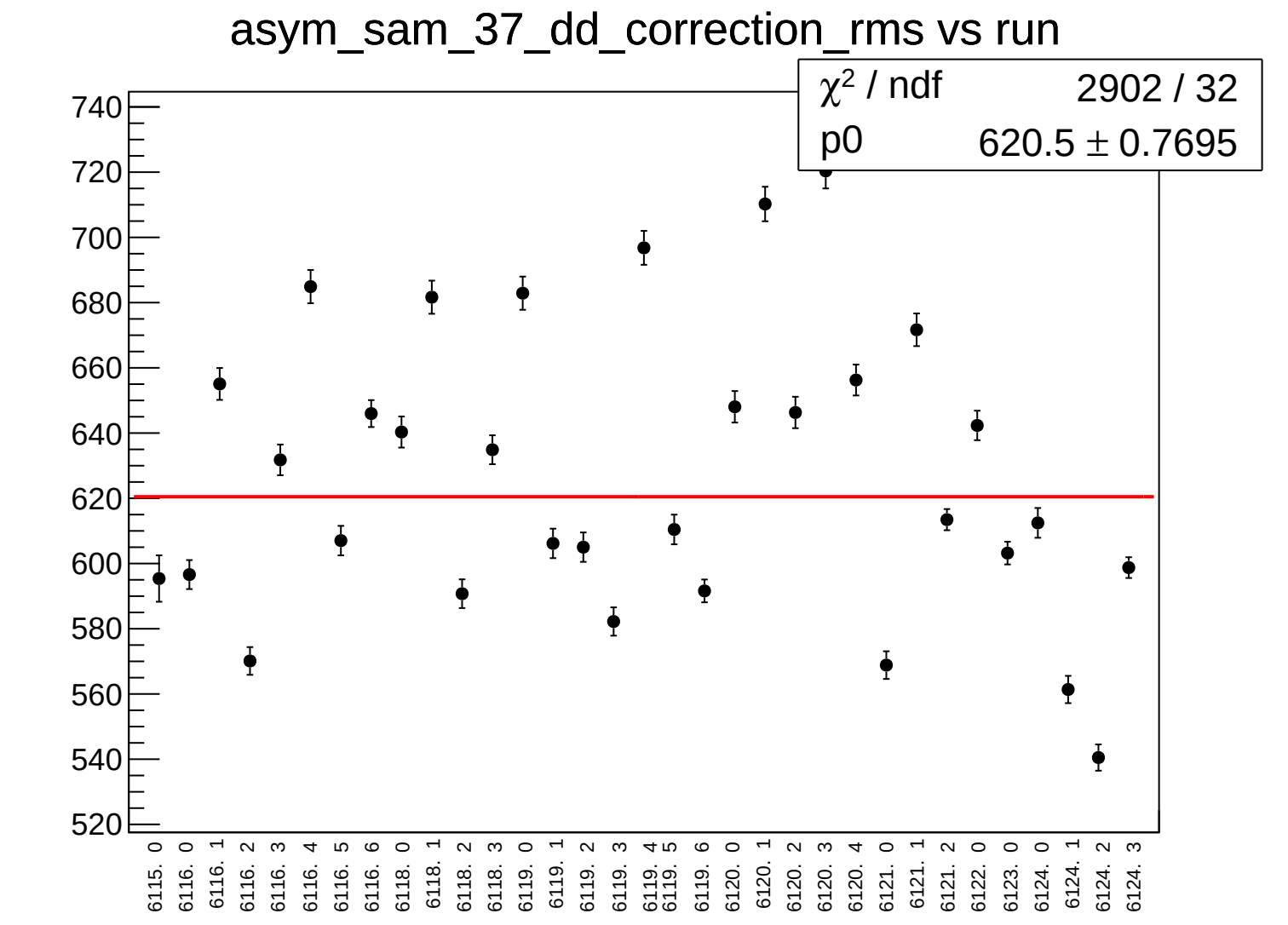

reg_asym_sam_37_dd_mean vs run
χ² / ndf 20.16 / 32
p0 −128.6 ± 96.06
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −78.07
Std Dev 90.62
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

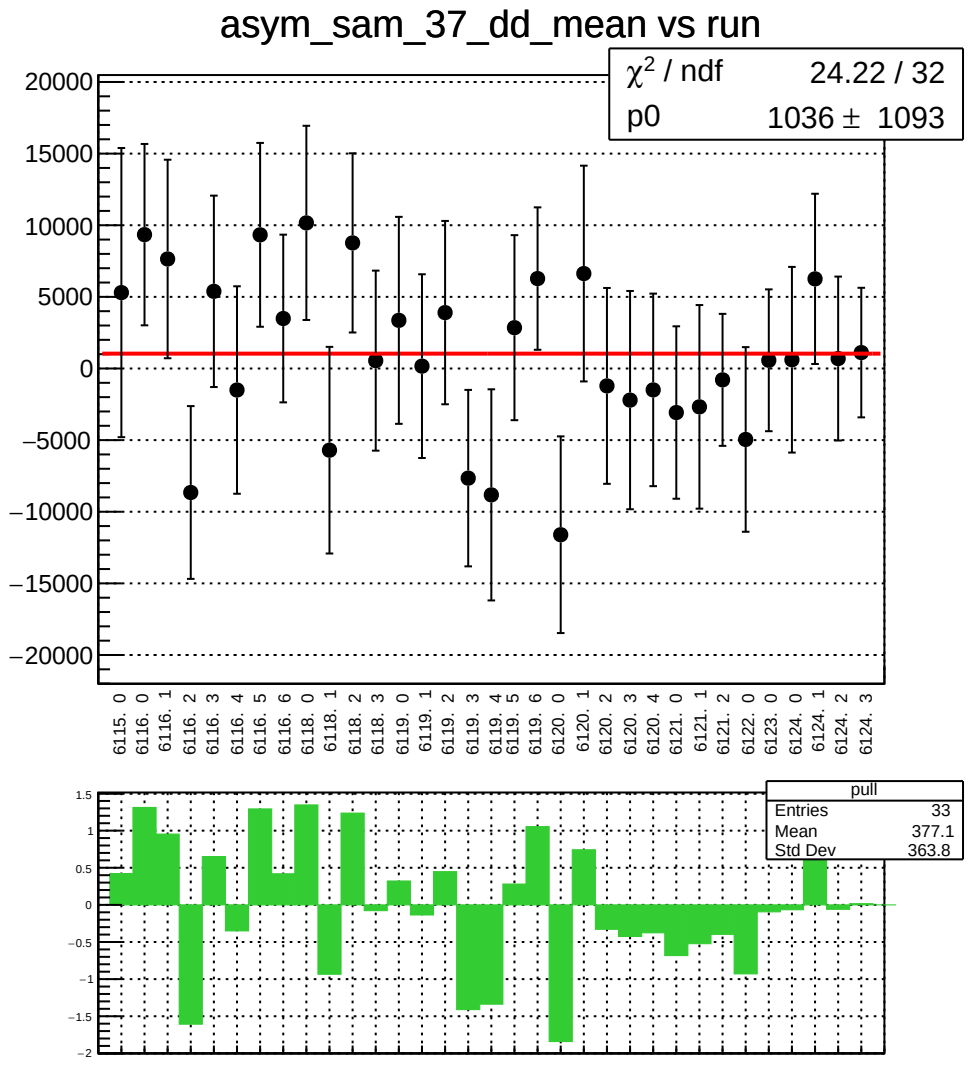

pull1D
Entries 33
Mean −0.03558
Std Dev 0.7807
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

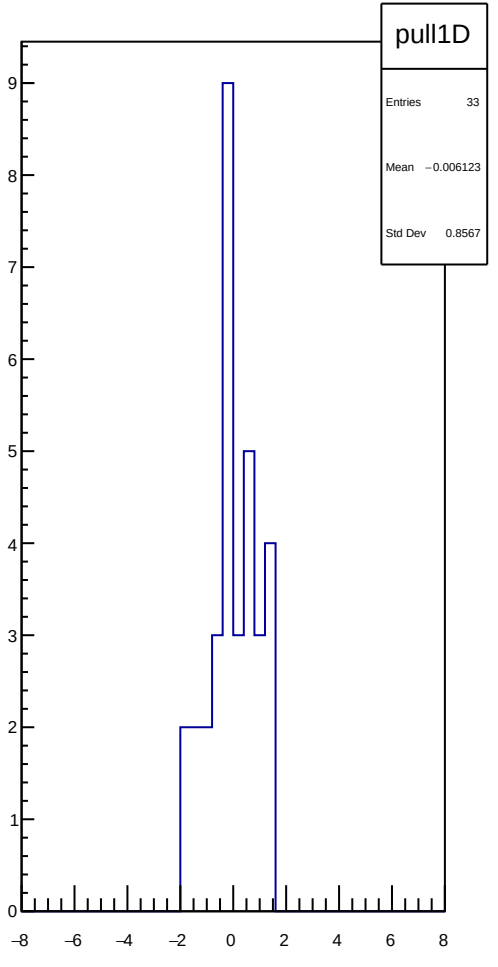

reg_asym_sam_37_dd_rms vs run
χ² / ndf 7981 / 32
p0 54.56 ± 0.06793
80
75
70
65
60
55
50
45
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

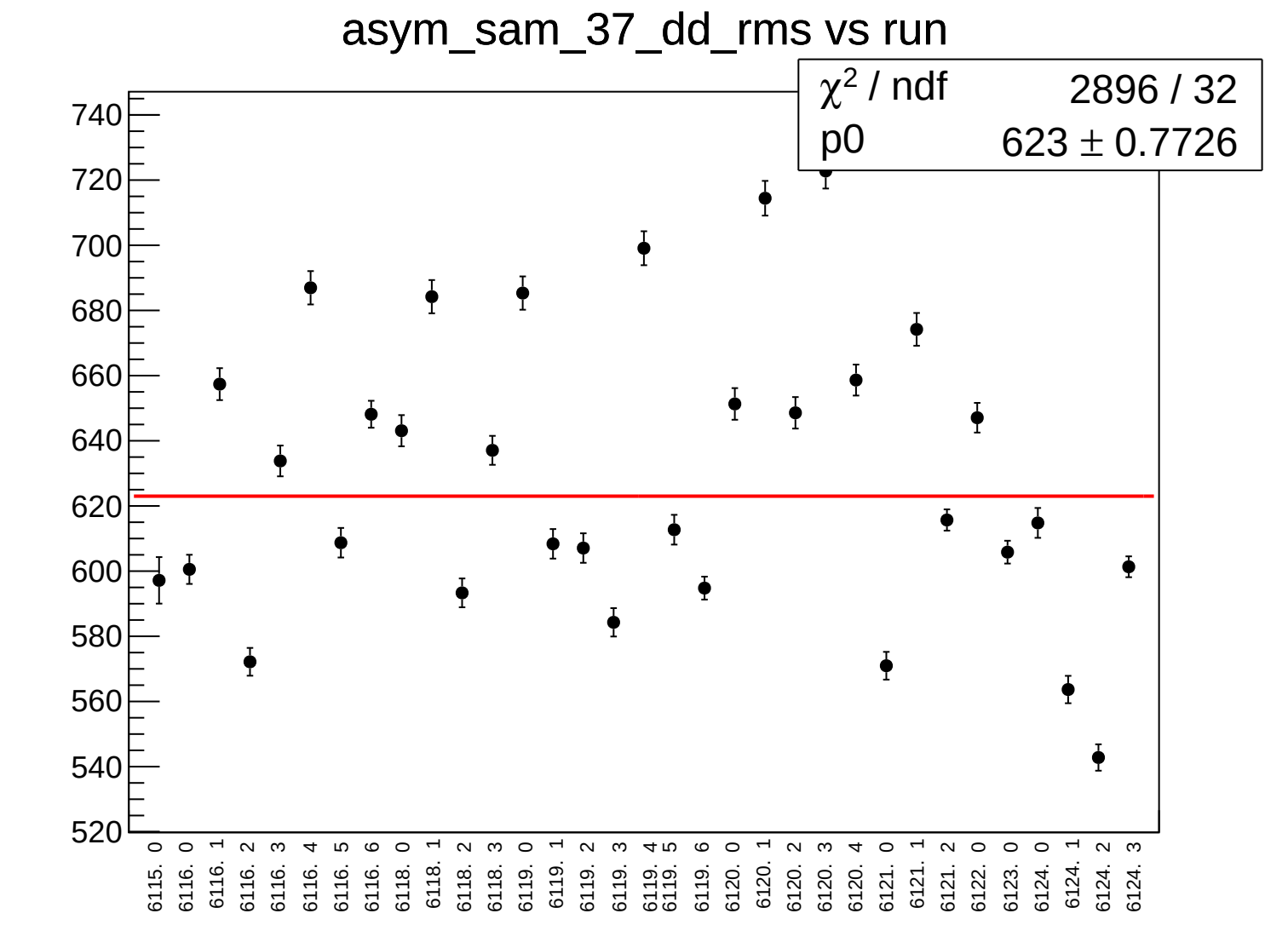

asym_sam_37_dd_correction_mean vs run
χ² / ndf 25.1 / 32
p0 −1142 ± 1088
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1809
Std Dev 1795
2
1.5
1
0.5
0
−0.5
−1
−1.5

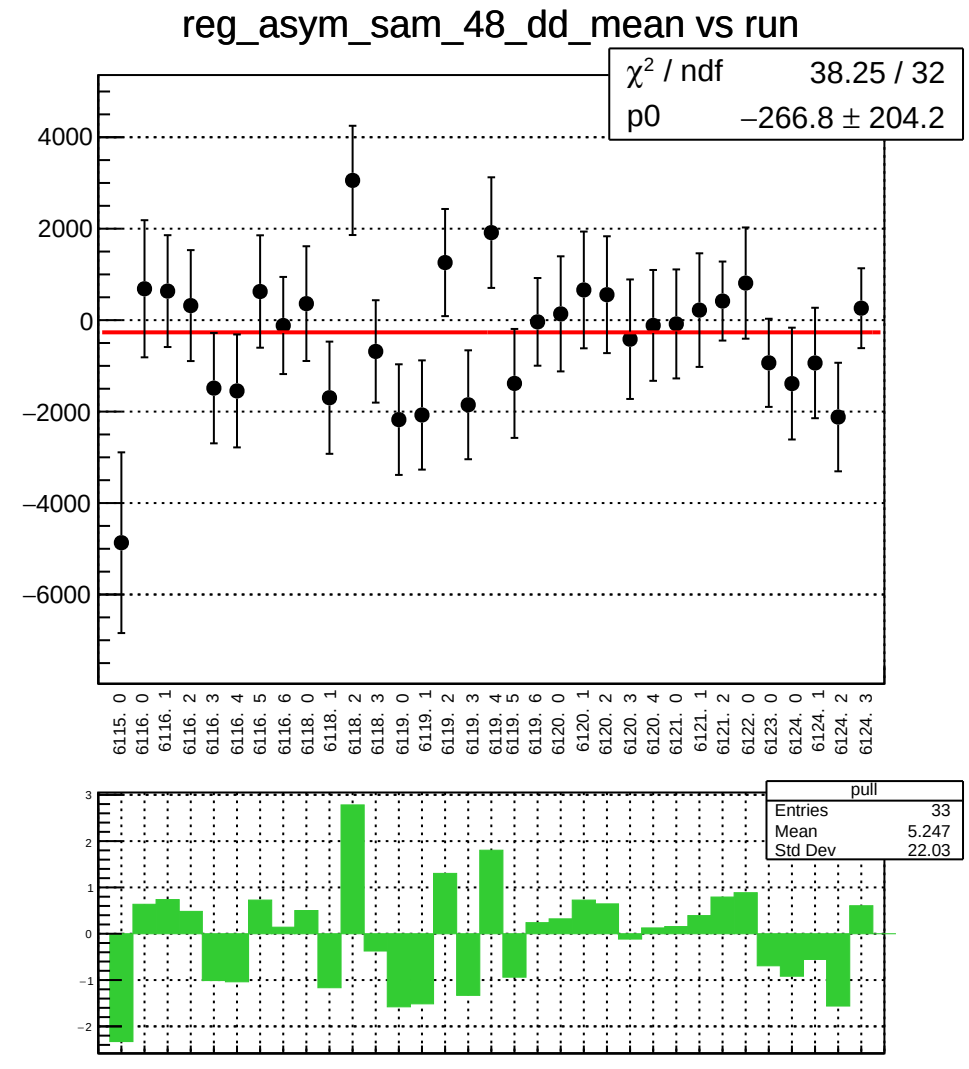

pull1D
Entries 33
Mean 0.001389
Std Dev 0.8721
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

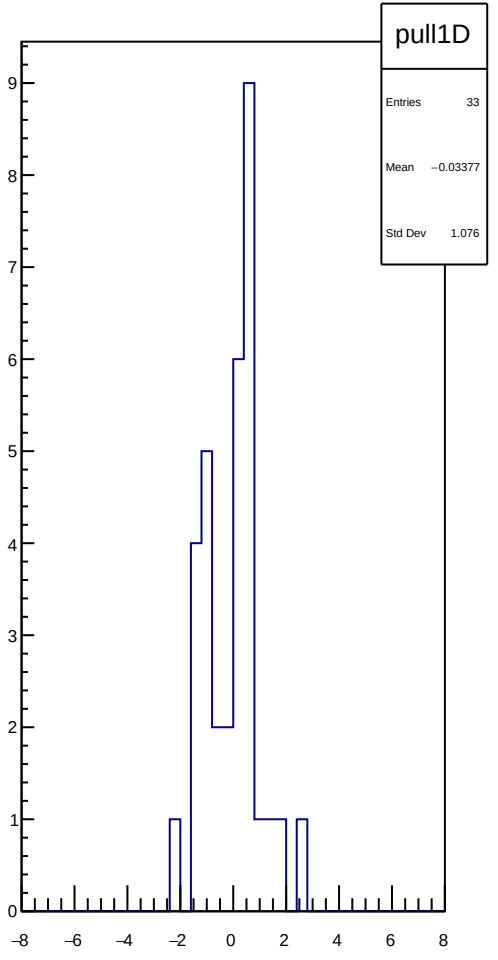

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2902 / 32
p0 620.5 ± 0.7695
740
720
700
680
660
640
620
600
580
560
540
520
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

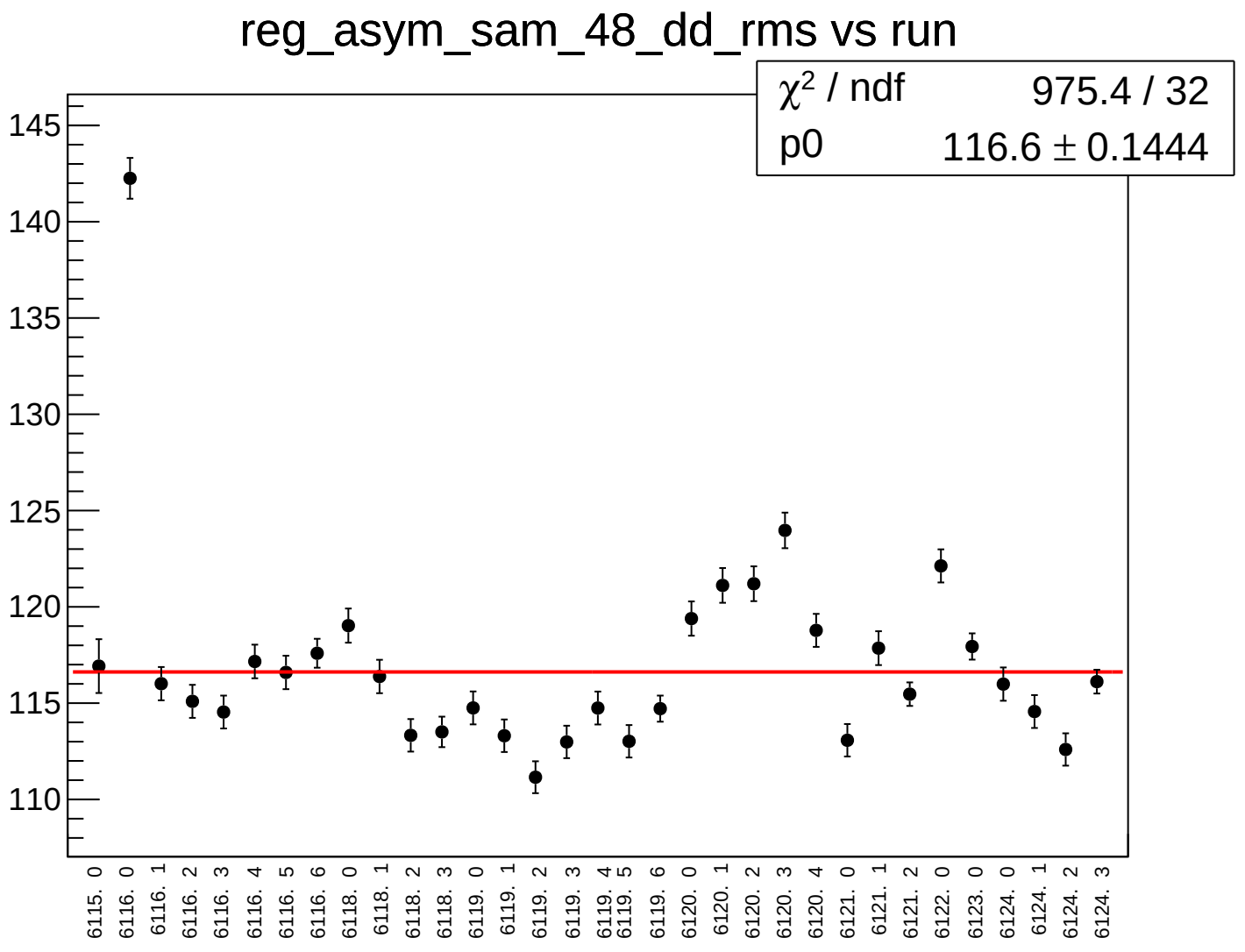

asym_sam_37_dd_mean vs run
χ² / ndf 24.22 / 32
p0 1036 ± 1093
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 377.1
Std Dev 363.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

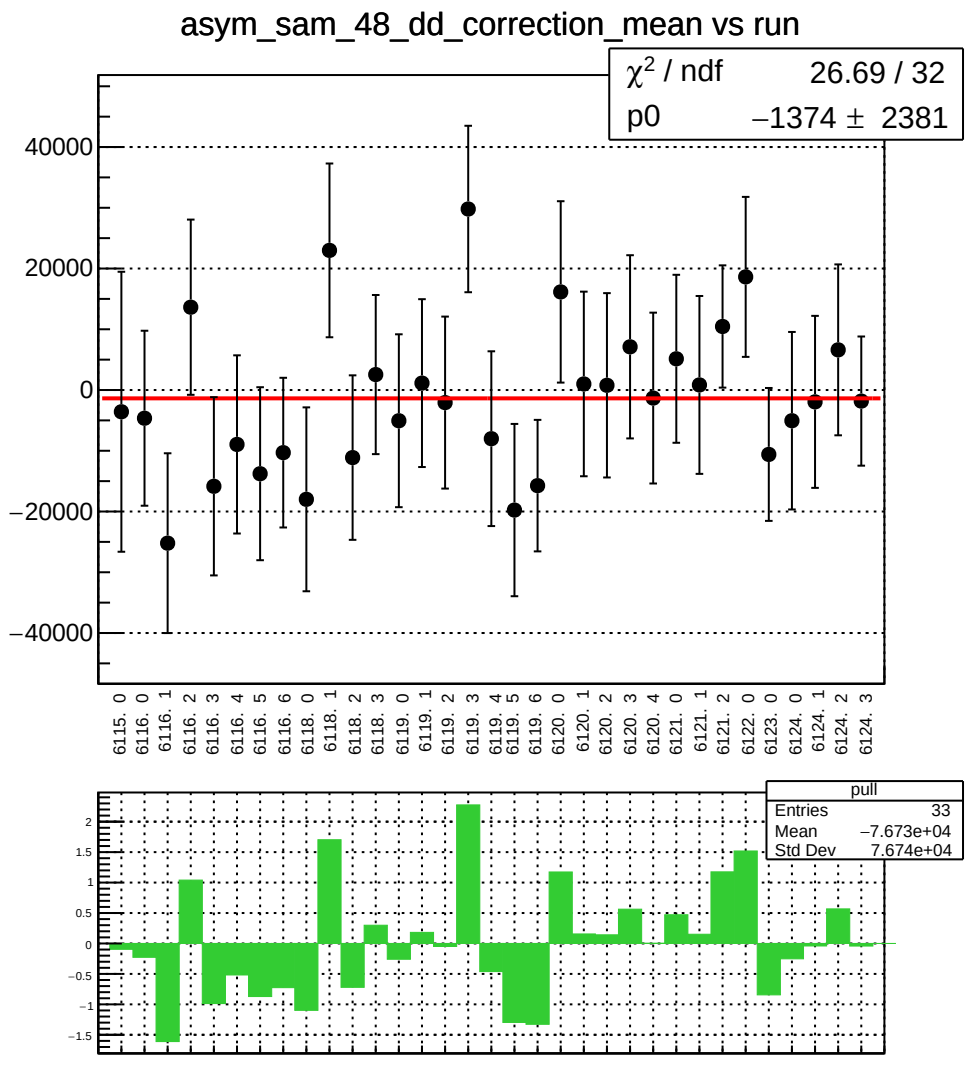

pull1D
Entries 33
Mean −0.006123
Std Dev 0.8567
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

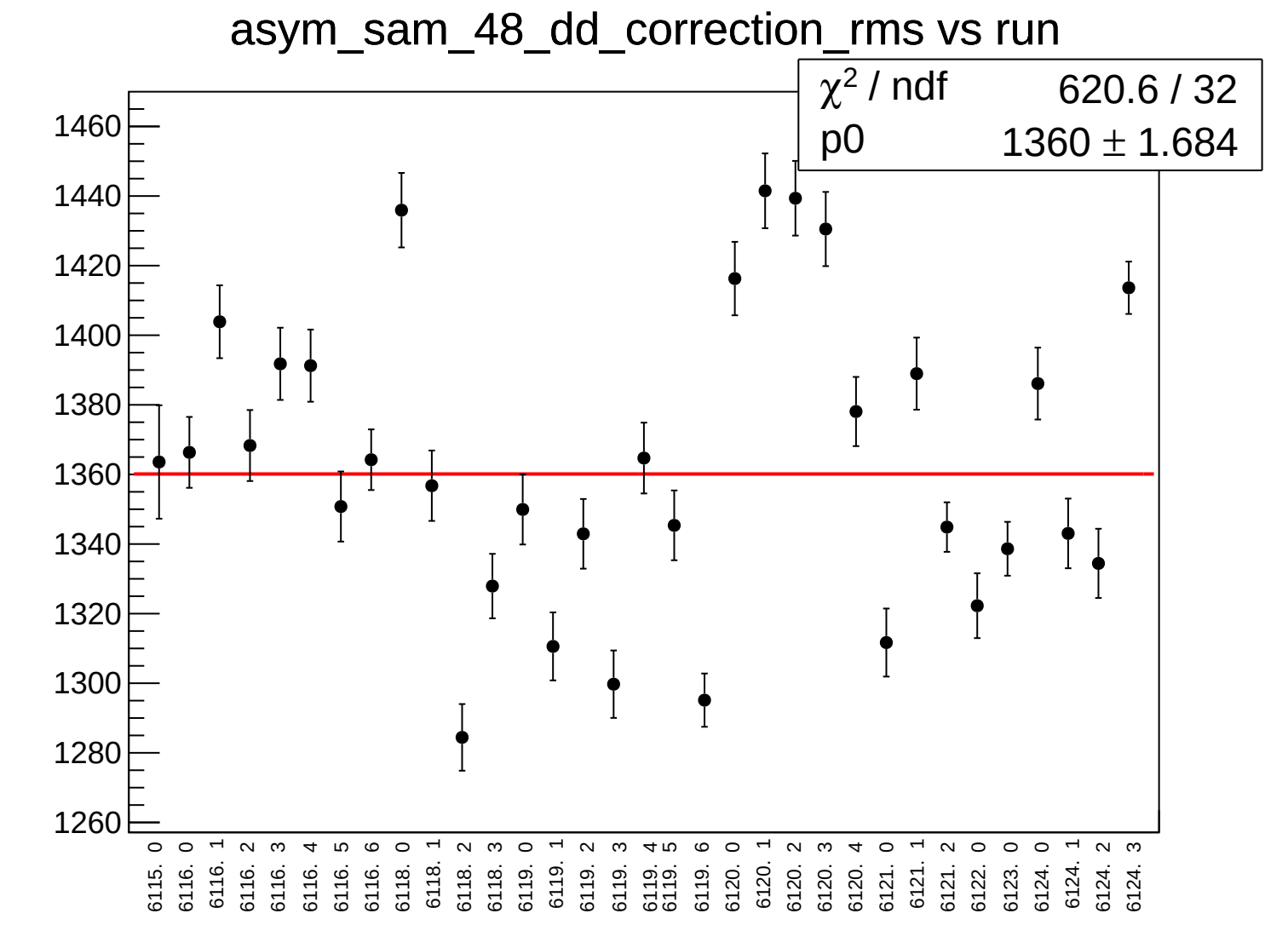

asym_sam_37_dd_rms vs run
χ² / ndf 2896 / 32
p0 623 ± 0.7726
740
720
700
680
660
640
620
600
580
560
540
520
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

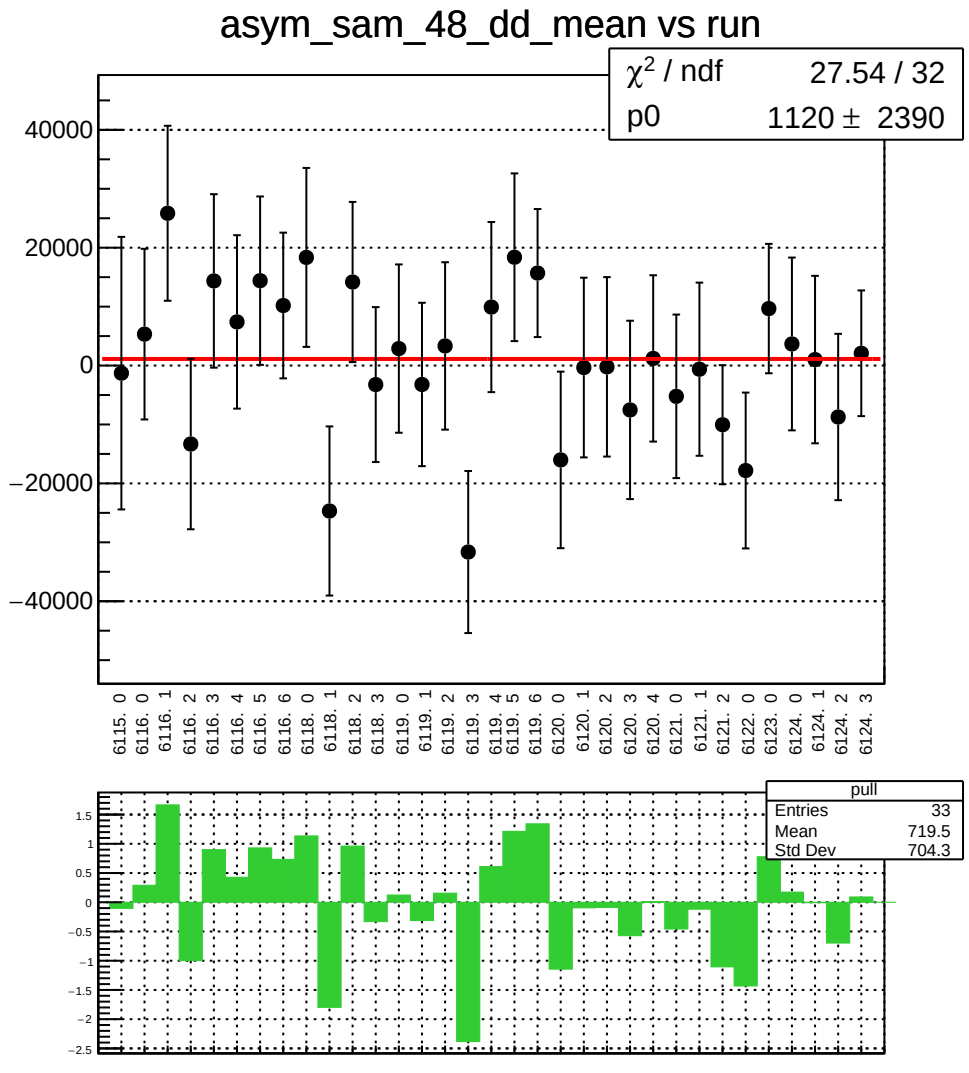

reg_asym_sam_48_dd_mean vs run
χ² / ndf 38.25 / 32
p0 −266.8 ± 204.2
4000
2000
0
−2000
−4000
−6000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 5.247
Std Dev 22.03
3
2
1
0
−1
−2

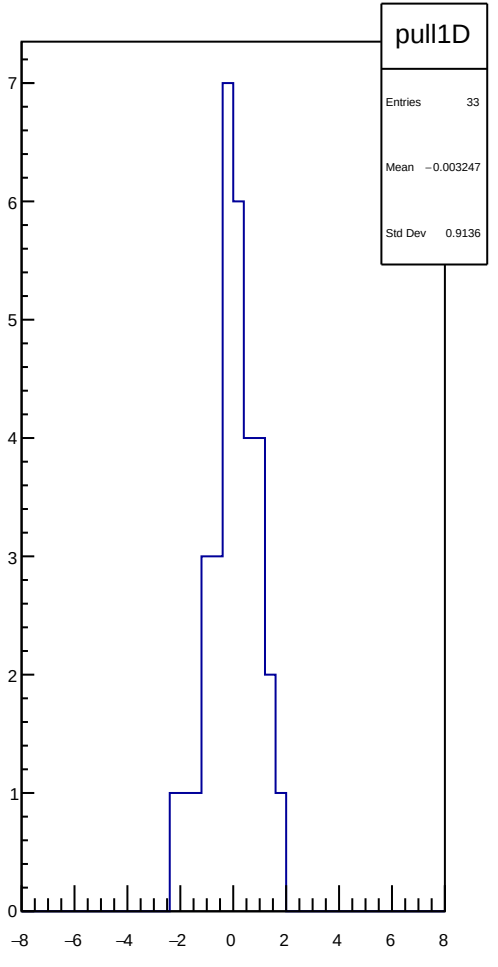

pull1D
Entries 33
Mean −0.03377
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

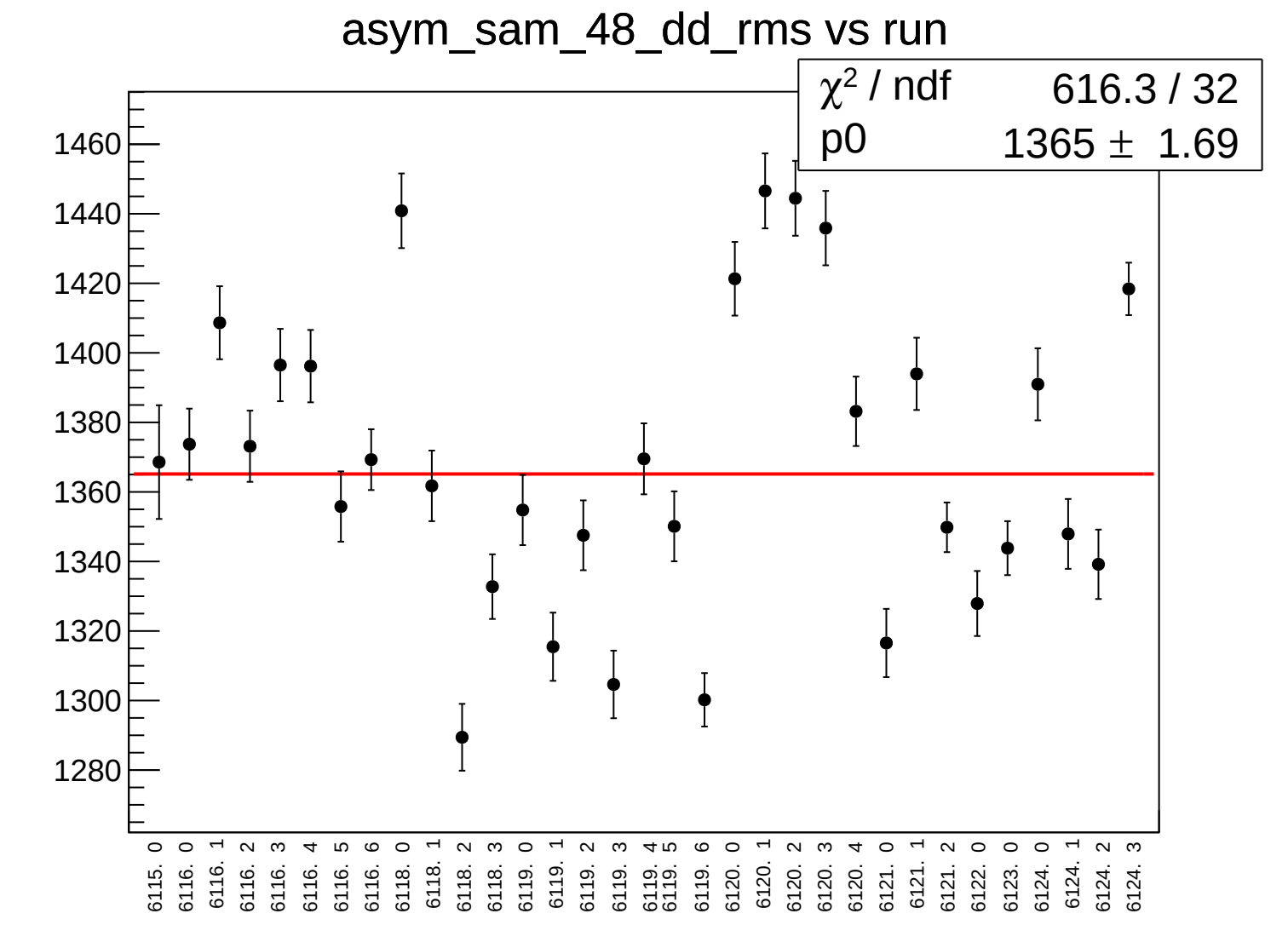

reg_asym_sam_48_dd_rms vs run
χ² / ndf 975.4 / 32
p0 116.6 ± 0.1444
145
140
135
130
125
120
115
110
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

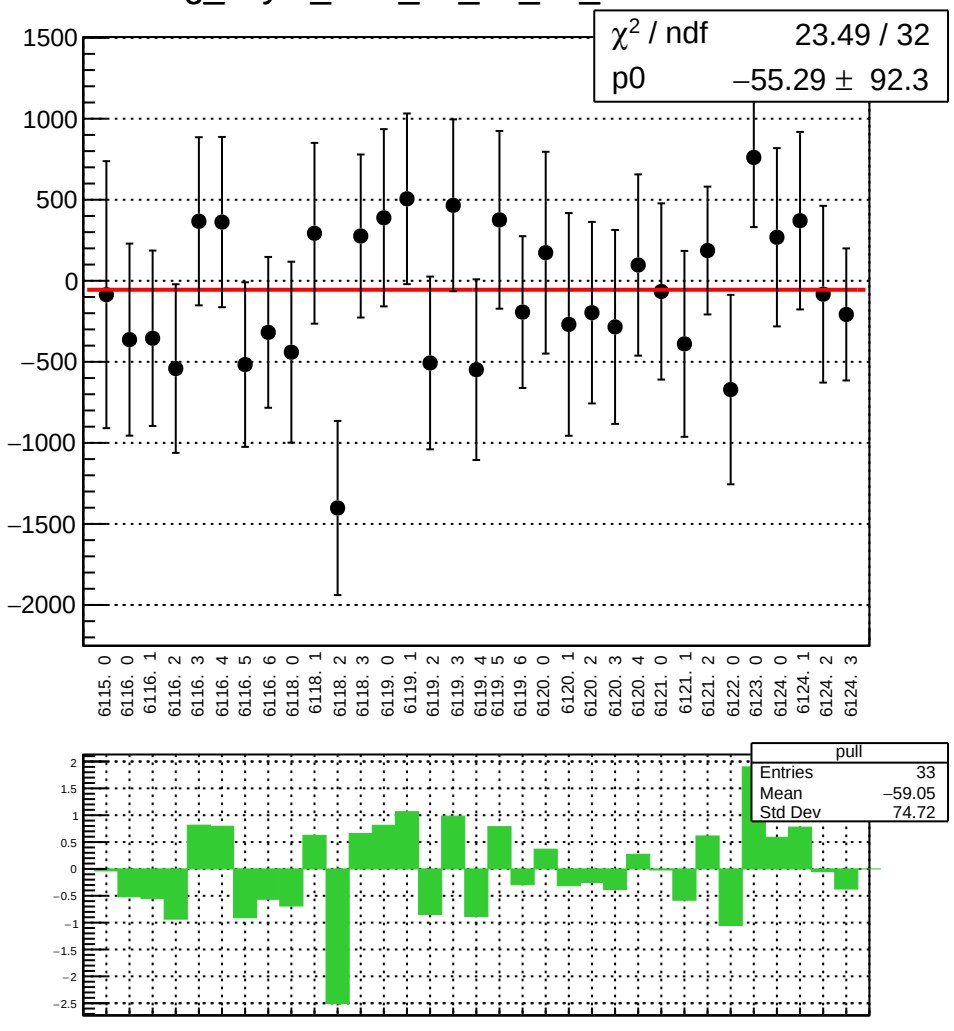

asym_sam_48_dd_correction_mean vs run
χ² / ndf 26.69 / 32
p0 −1374 ± 2381
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −7.673e+04
Std Dev 7.674e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −3.021e−05
Std Dev 0.8993
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

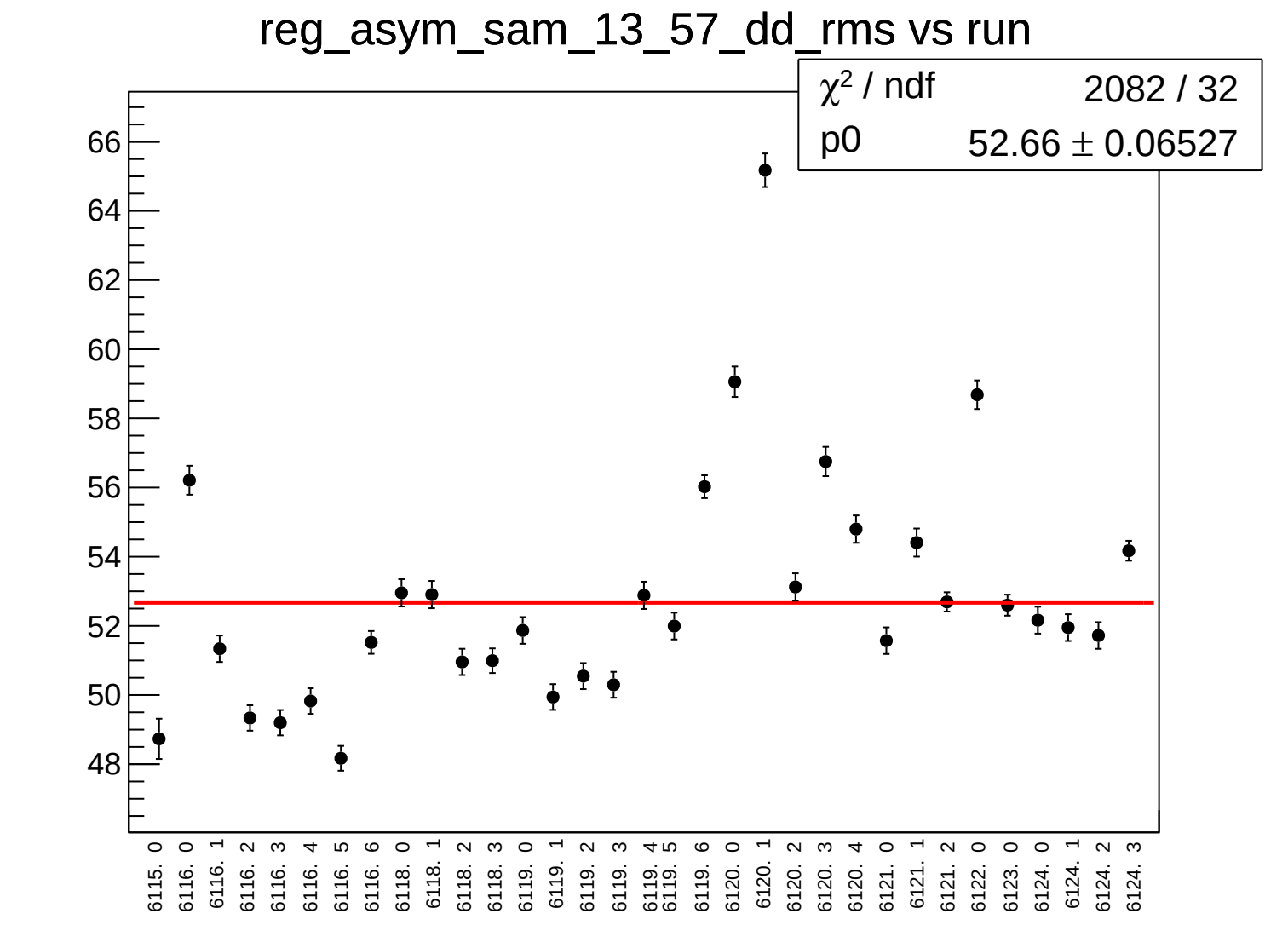

asym_sam_48_dd_correction_rms vs run
χ² / ndf 620.6 / 32
p0 1360 ± 1.684
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

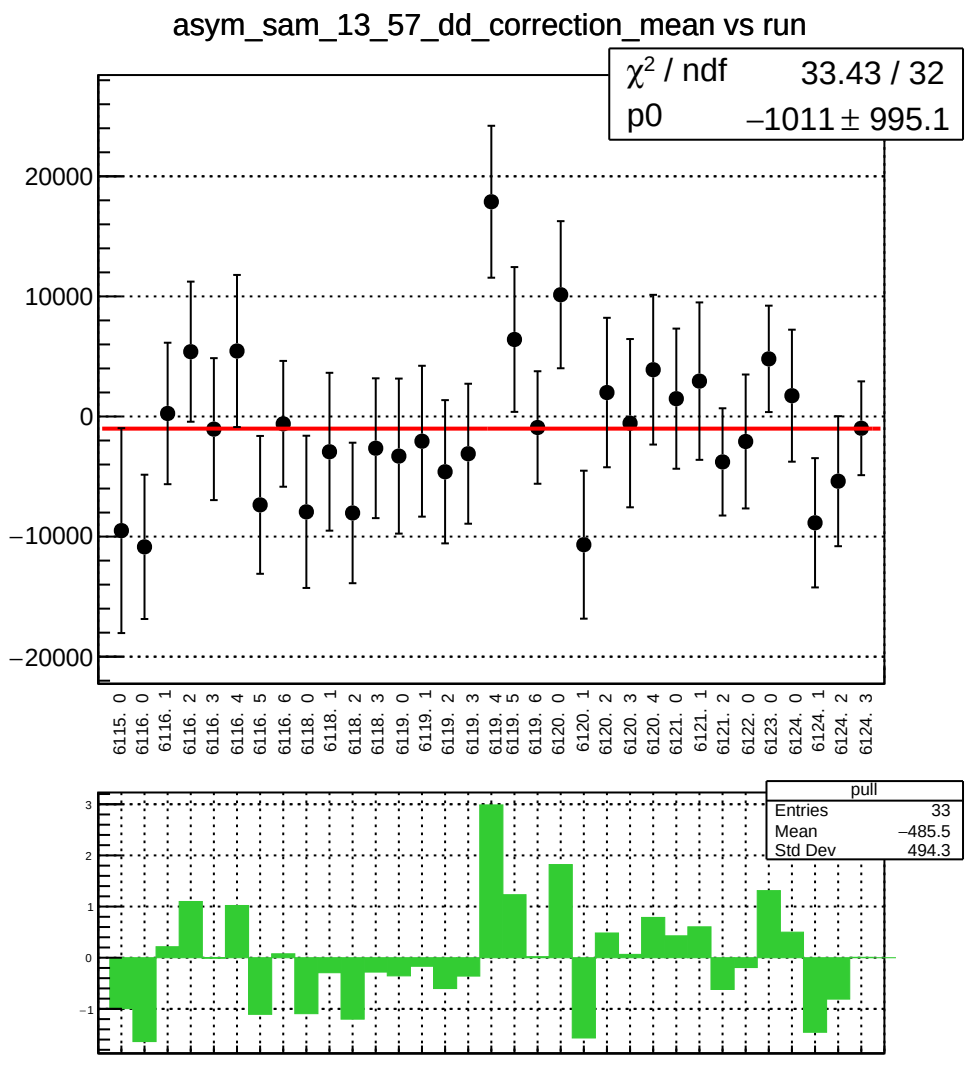

asym_sam_48_dd_mean vs run
χ² / ndf 27.54 / 32
p0 1120 ± 2390
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 719.5
Std Dev 704.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

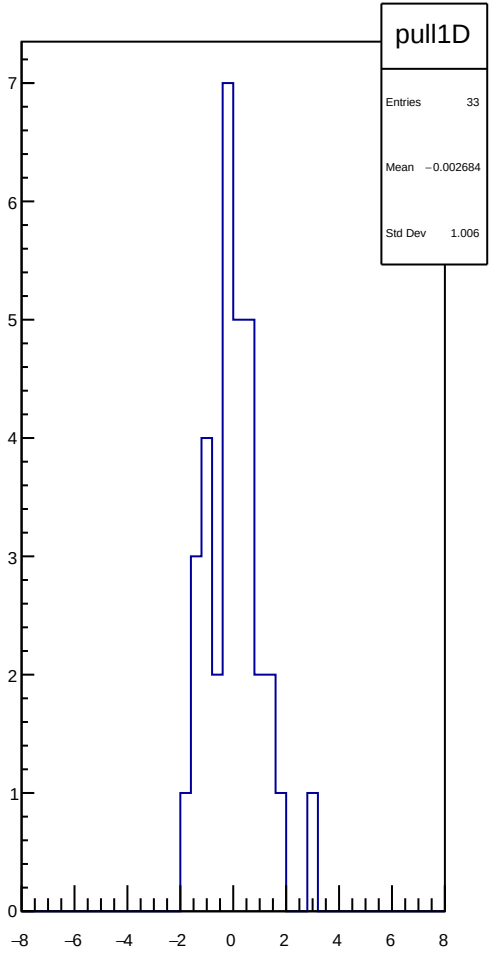

pull1D
Entries 33
Mean −0.003247
Std Dev 0.9136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

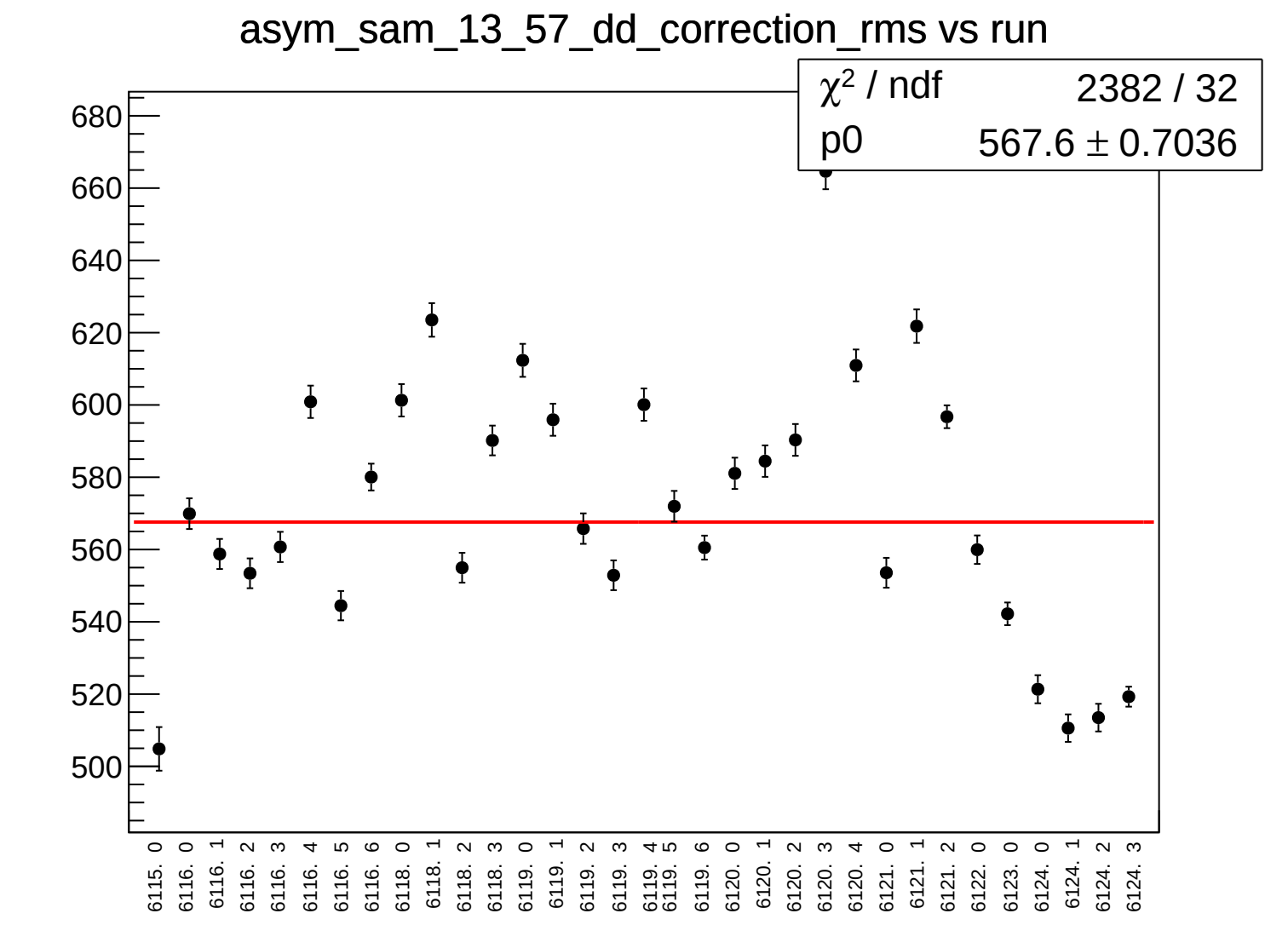

asym_sam_48_dd_rms vs run
χ² / ndf 616.3 / 32
p0 1365 ± 1.69
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

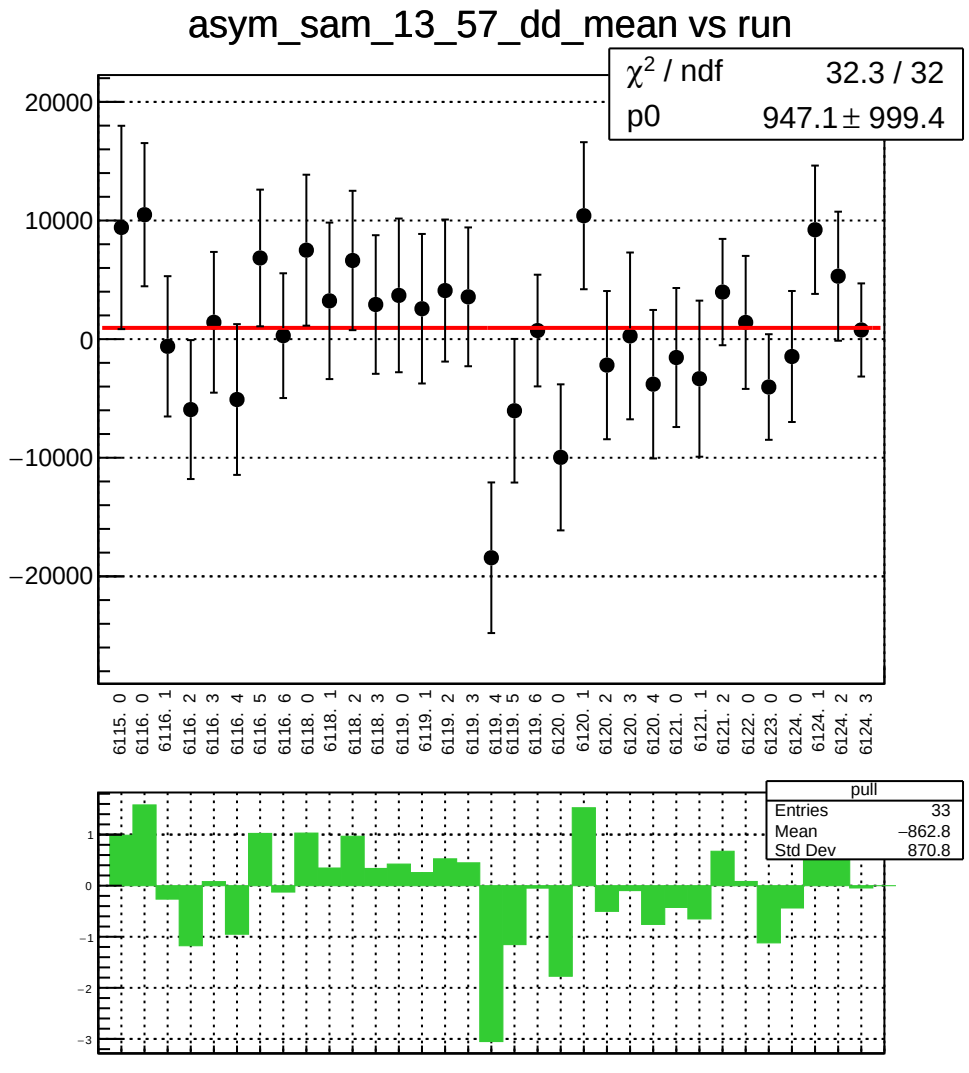

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.49 / 32
p0 −55.29 ± 92.3
1500
1000
500
0
−500
−1000
−1500
−2000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −59.05
Std Dev 74.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.02136
Std Dev 0.8434
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

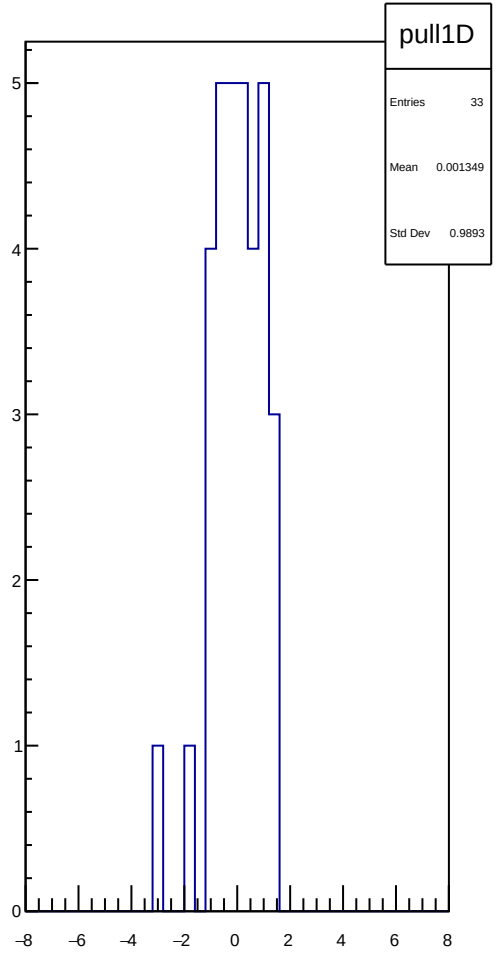

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2082 / 32
p0 52.66 ± 0.06527
66
64
62
60
58
56
54
52
50
48
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

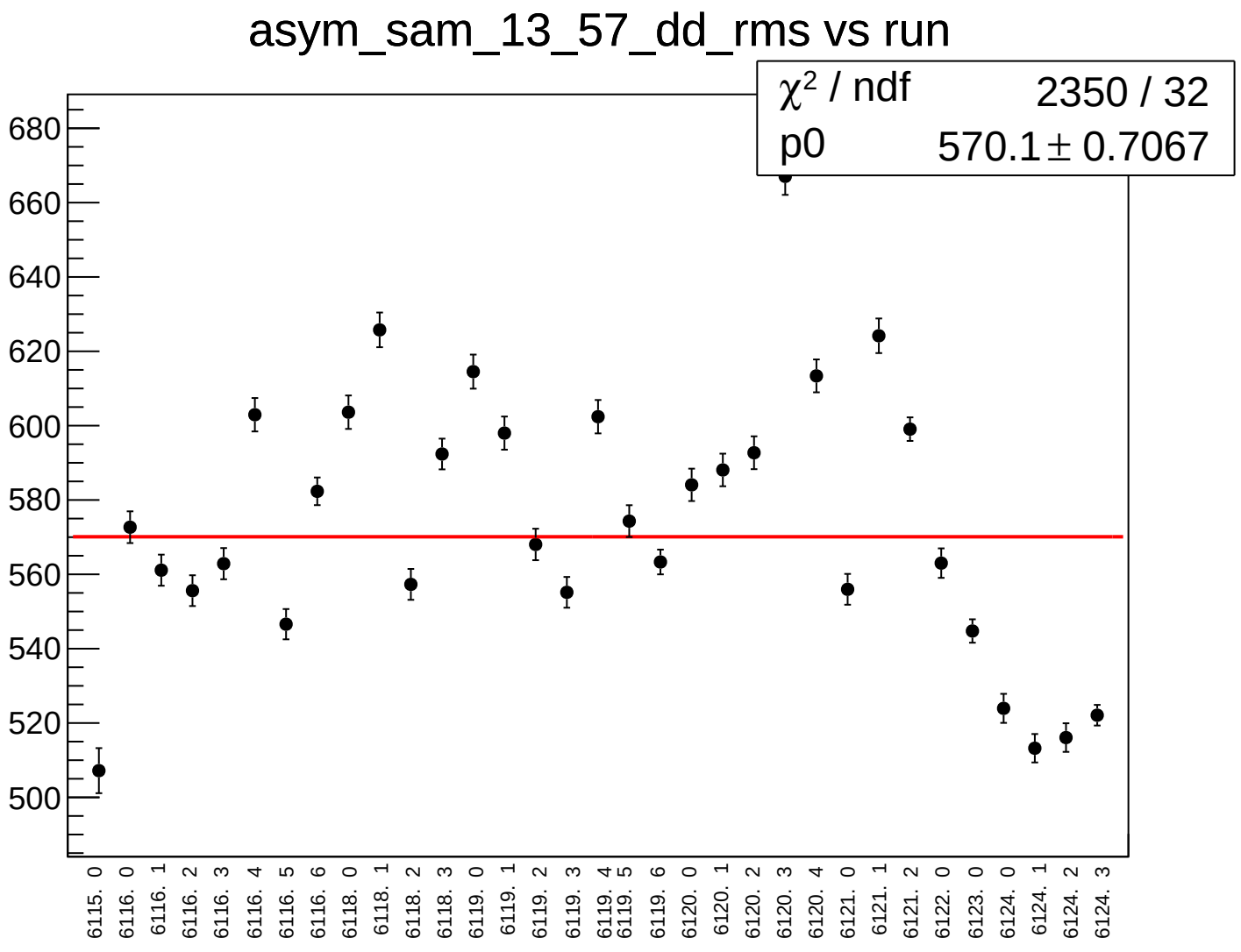

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 33.43 / 32
p0 −1011 ± 995.1
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −485.5
Std Dev 494.3
3
2
1
0
−1

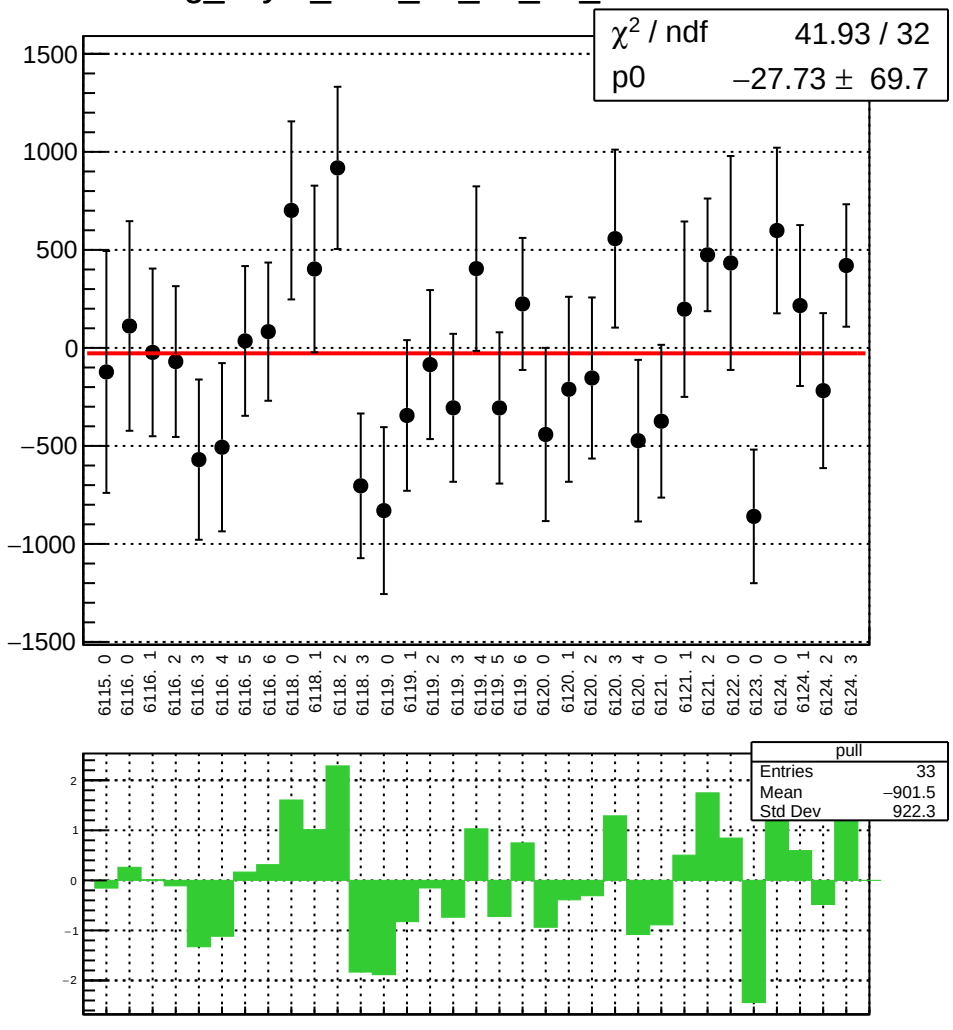

pull1D
Entries 33
Mean −0.002684
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

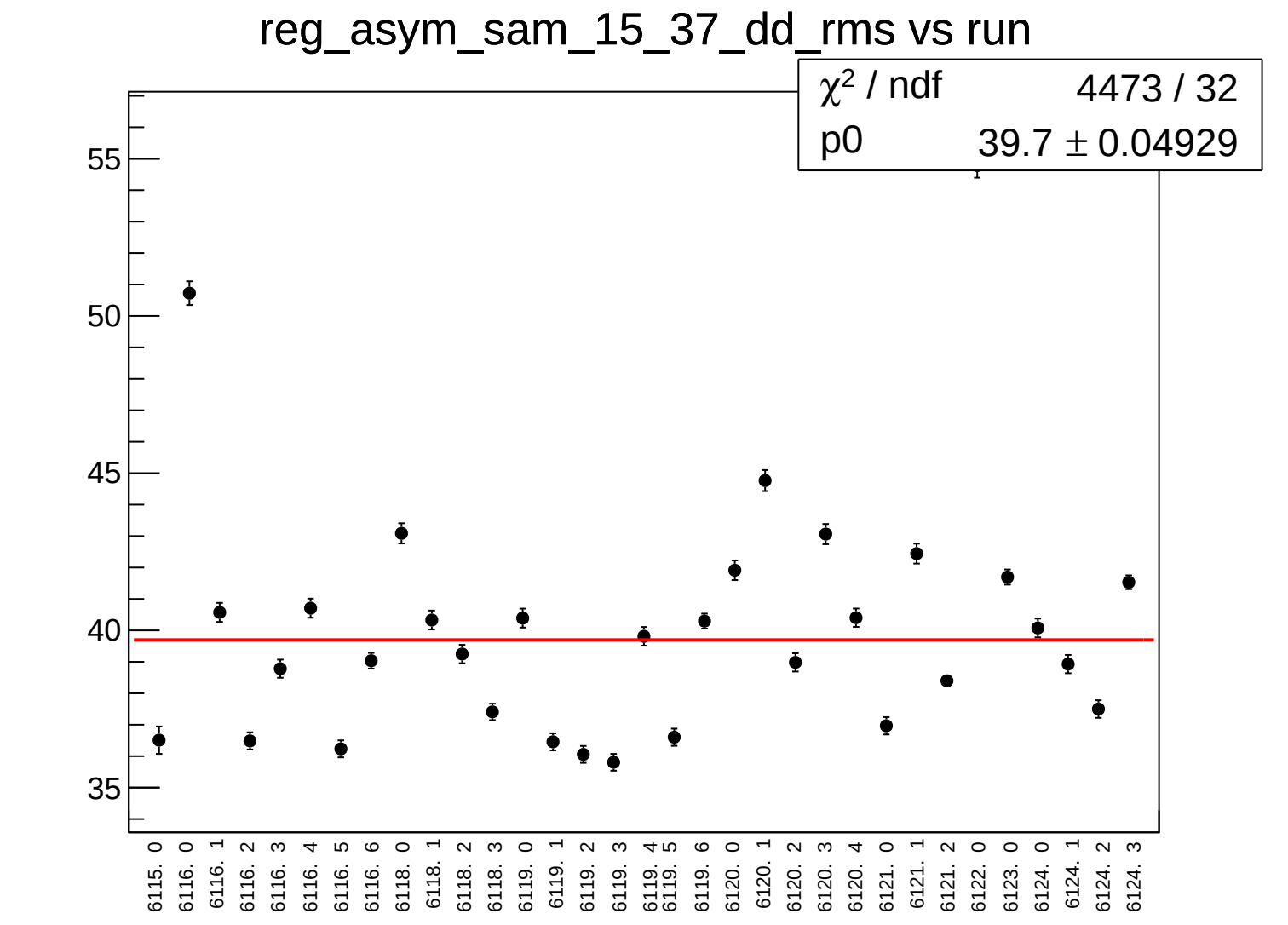

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2382 / 32
p0 567.6 ± 0.7036
680
660
640
620
600
580
560
540
520
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

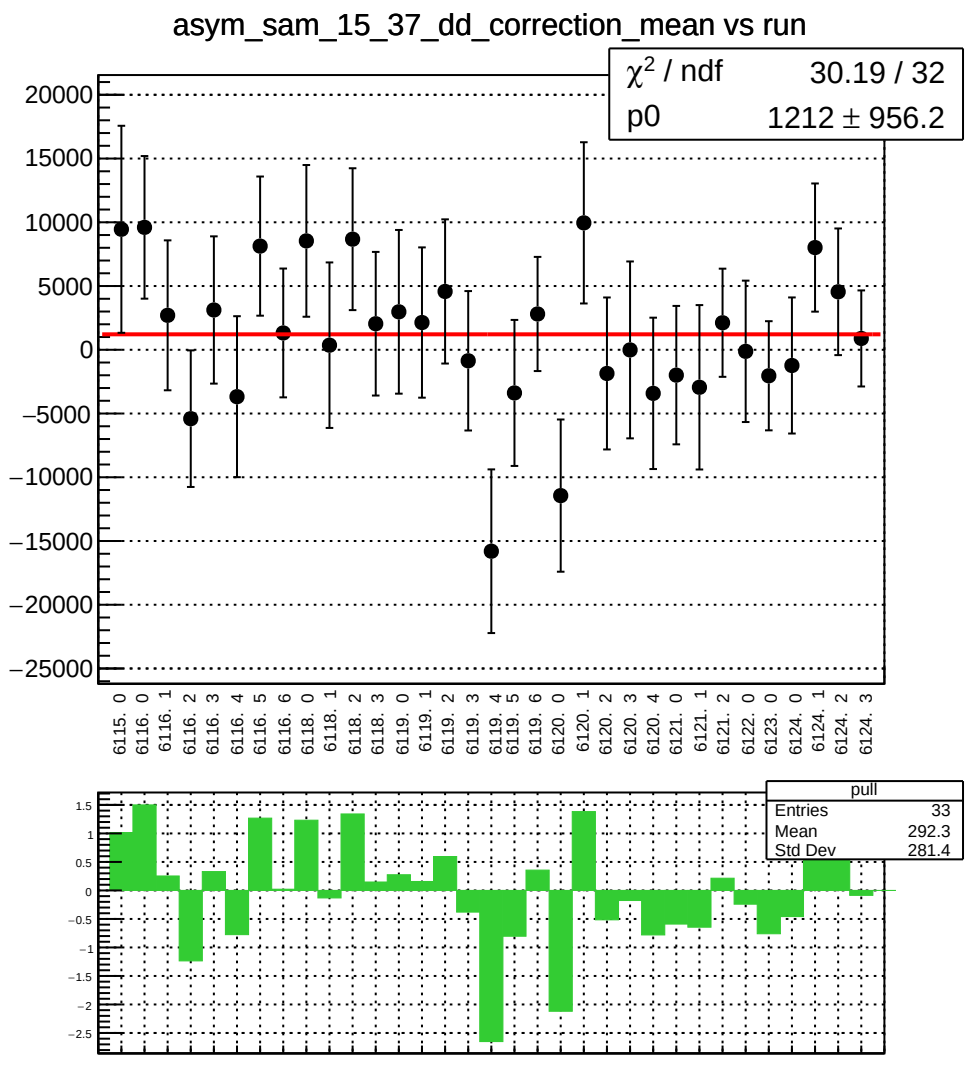

asym_sam_13_57_dd_mean vs run
χ² / ndf 32.3 / 32
p0 947.1 ± 999.4
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −862.8
Std Dev 870.8
1
0
−1
−2
−3

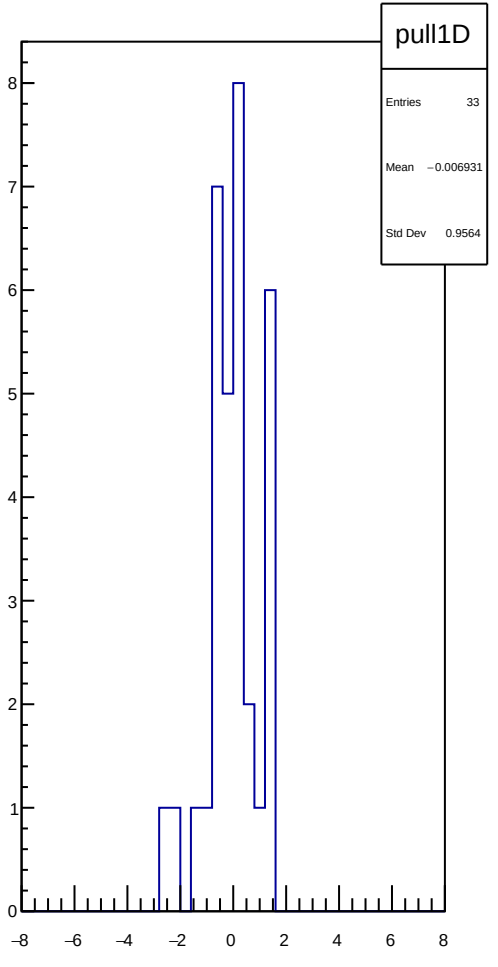

pull1D
Entries 33
Mean 0.001349
Std Dev 0.9893
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

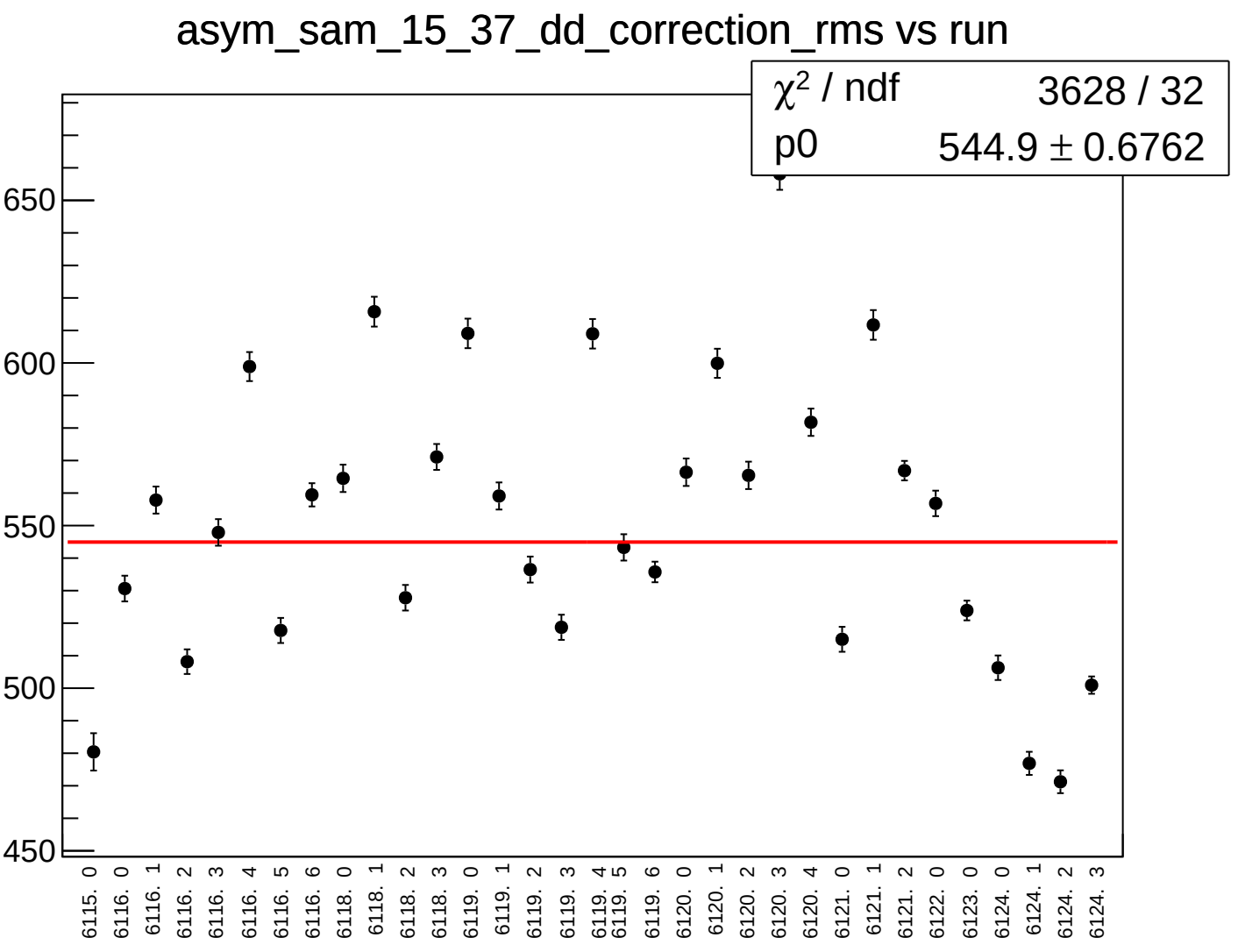

asym_sam_13_57_dd_rms vs run
χ² / ndf 2350 / 32
p0 570.1 ± 0.7067
680
660
640
620
600
580
560
540
520
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

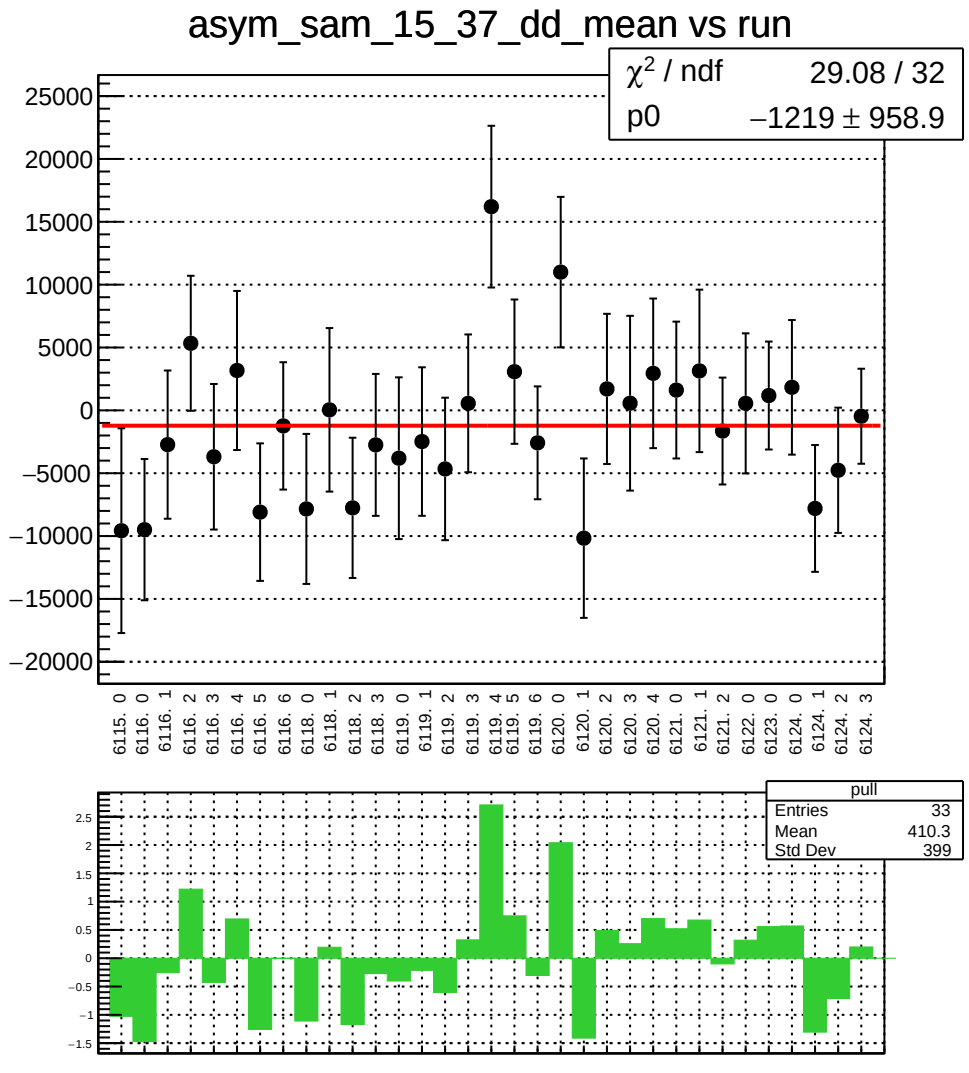

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 41.93 / 32
p0 −27.73 ± 69.7
1500
1000
500
0
−500
−1000
−1500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −901.5
Std Dev 922.3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.001432
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

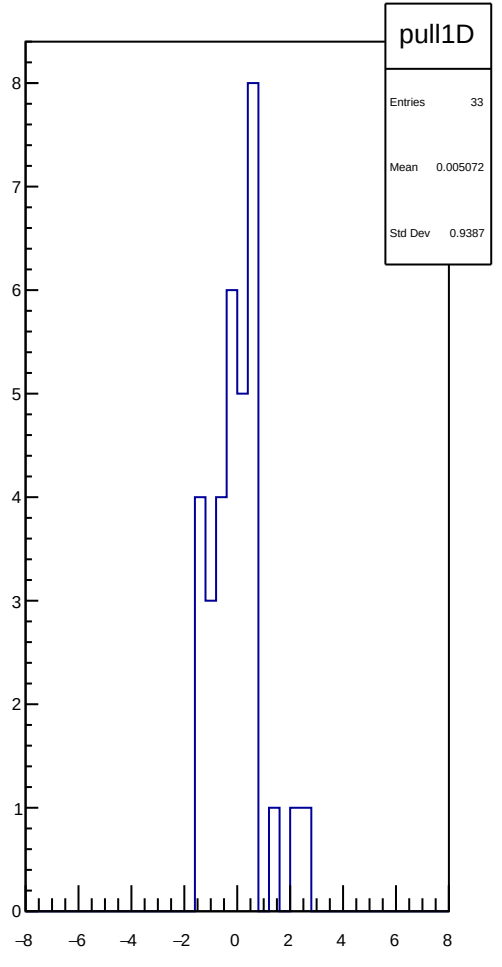

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4473 / 32
p0 39.7 ± 0.04929
55
50
45
40
35
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

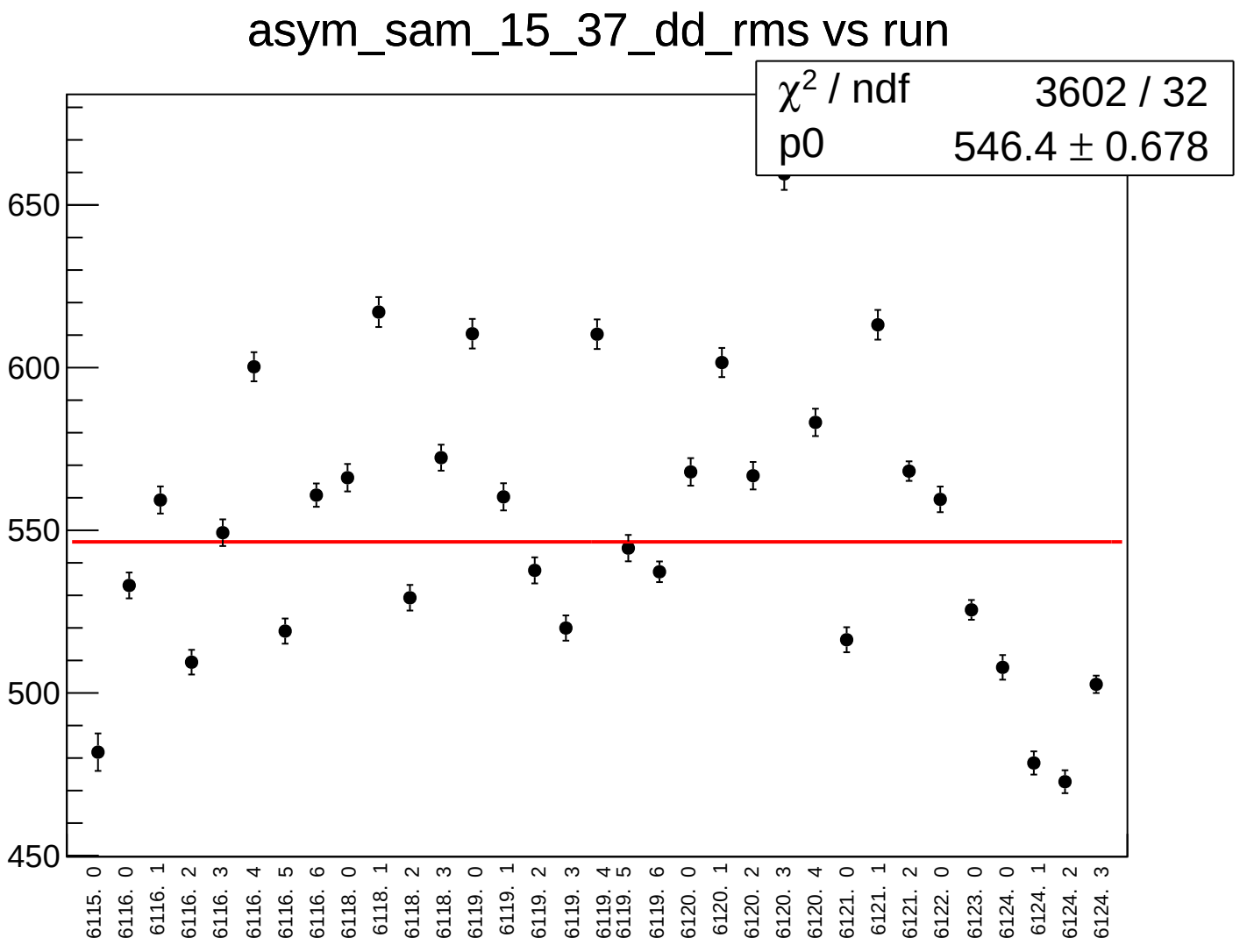

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 30.19 / 32
p0 1212 ± 956.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 292.3
Std Dev 281.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

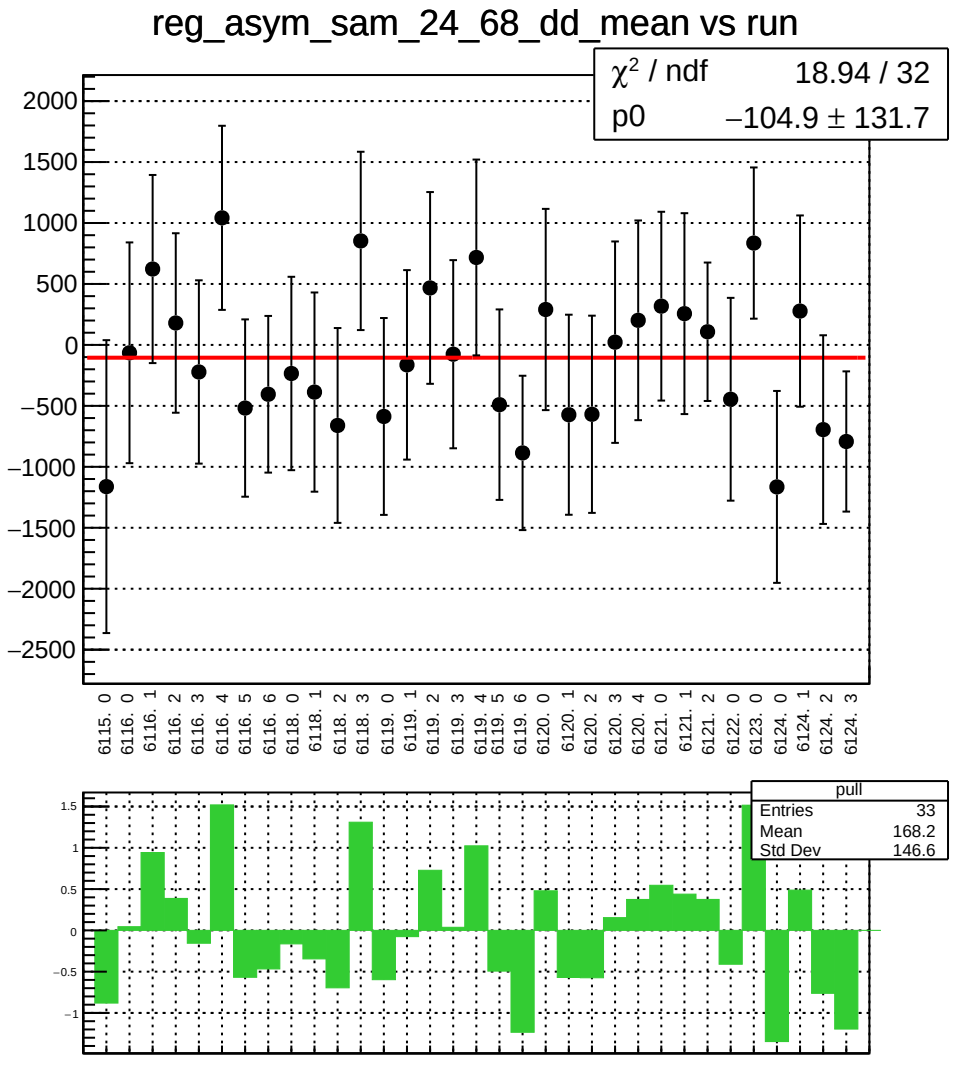

pull1D
Entries 33
Mean −0.006931
Std Dev 0.9564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

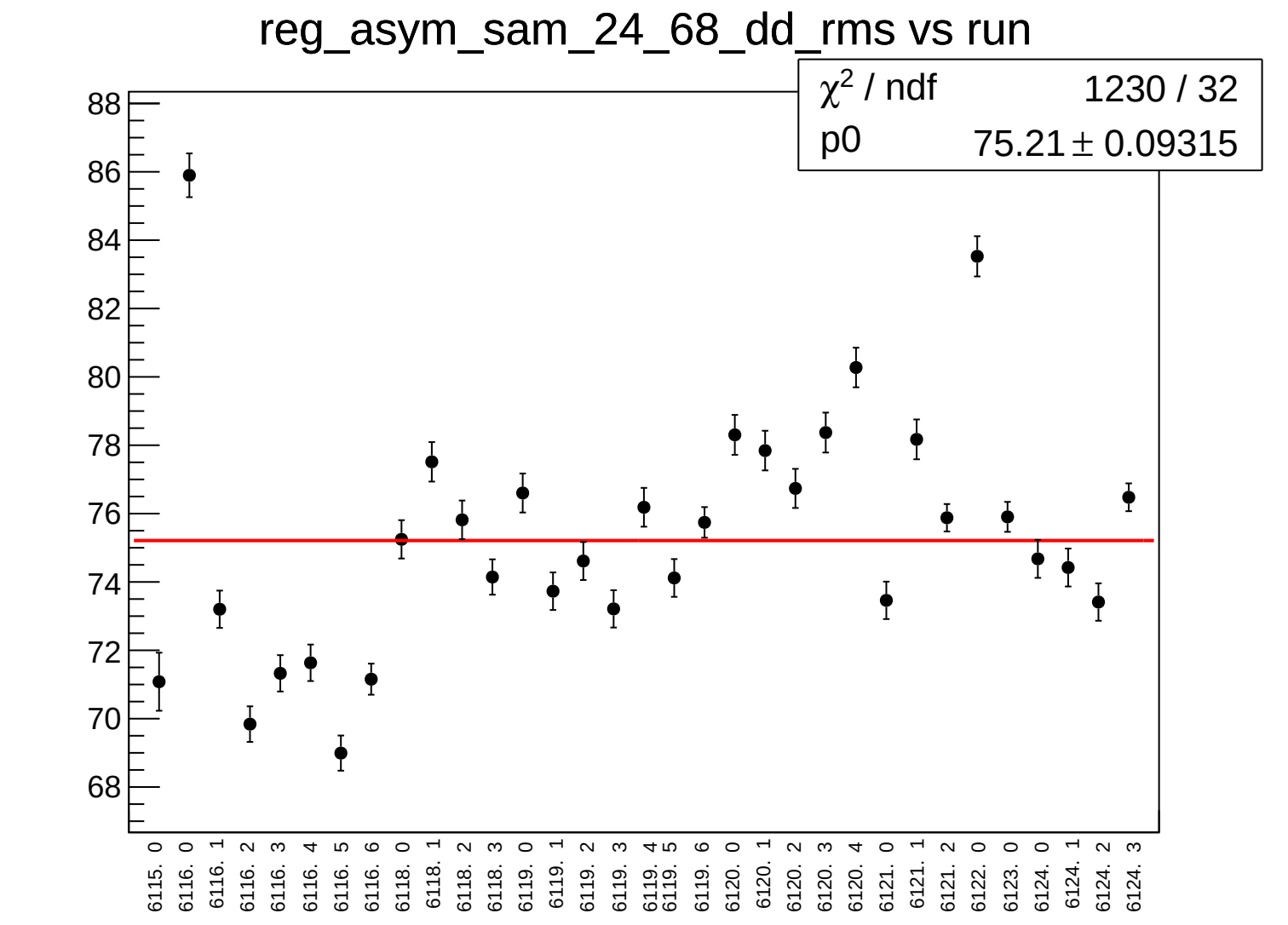

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3628 / 32
p0 544.9 ± 0.6762
650
600
550
500
450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

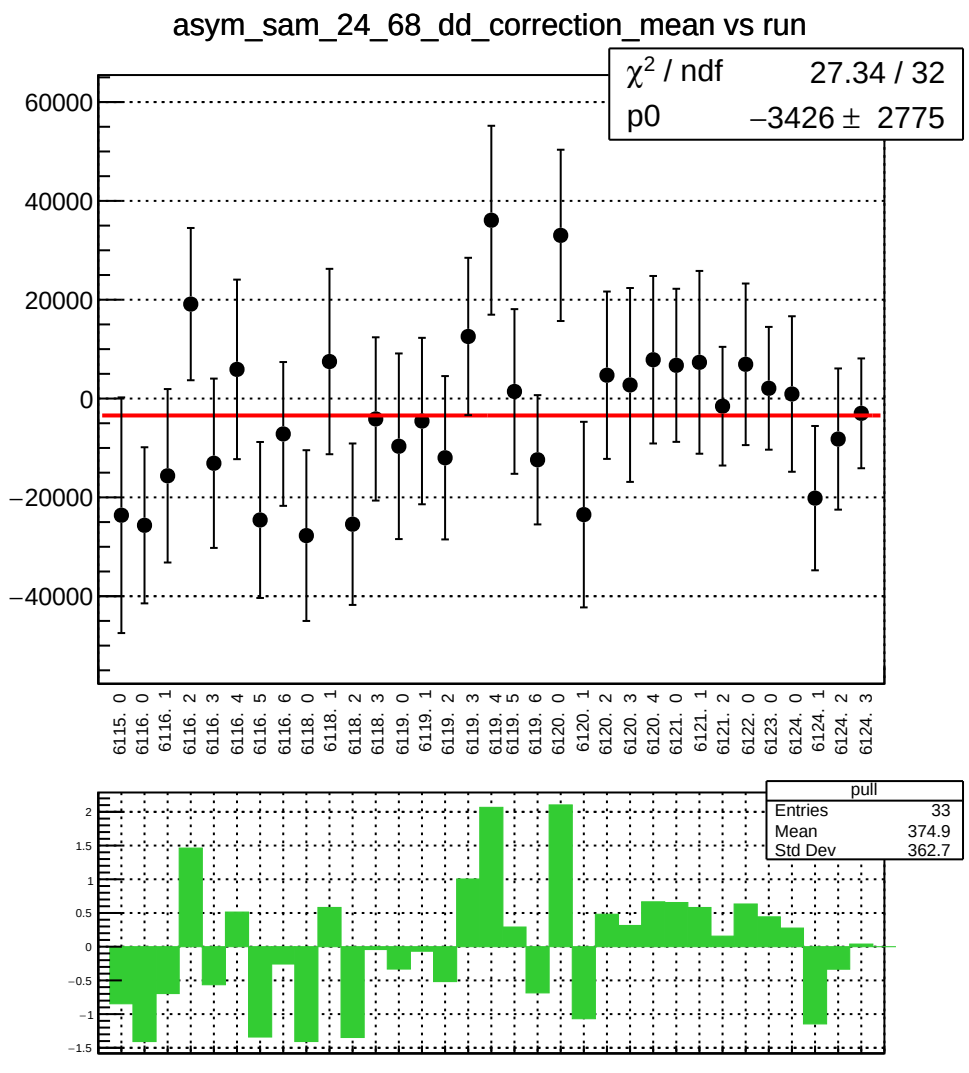

asym_sam_15_37_dd_mean vs run
χ² / ndf 29.08 / 32
p0 −1219 ± 958.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 410.3
Std Dev 399
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

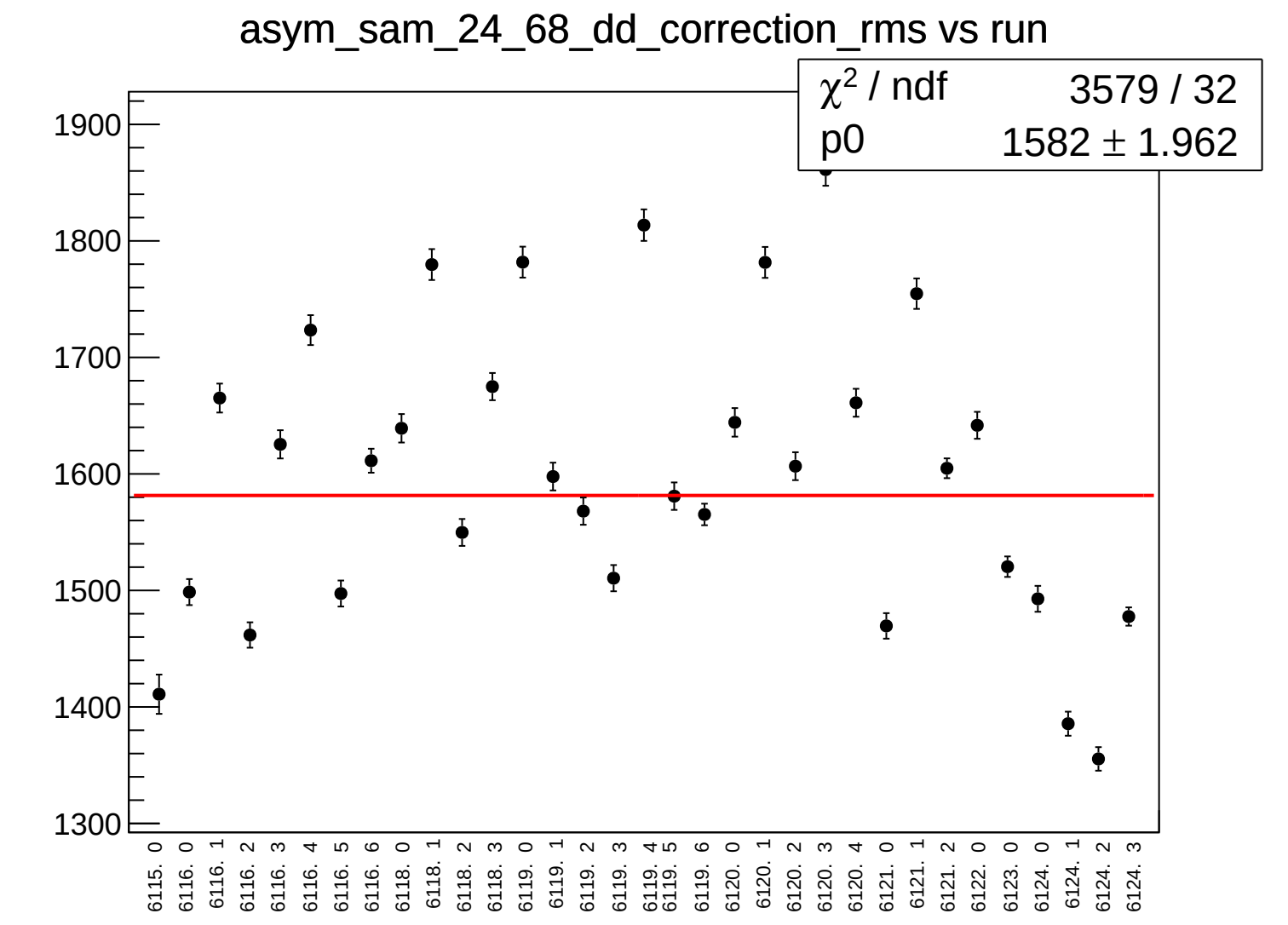

pull1D
Entries 33
Mean 0.005072
Std Dev 0.9387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

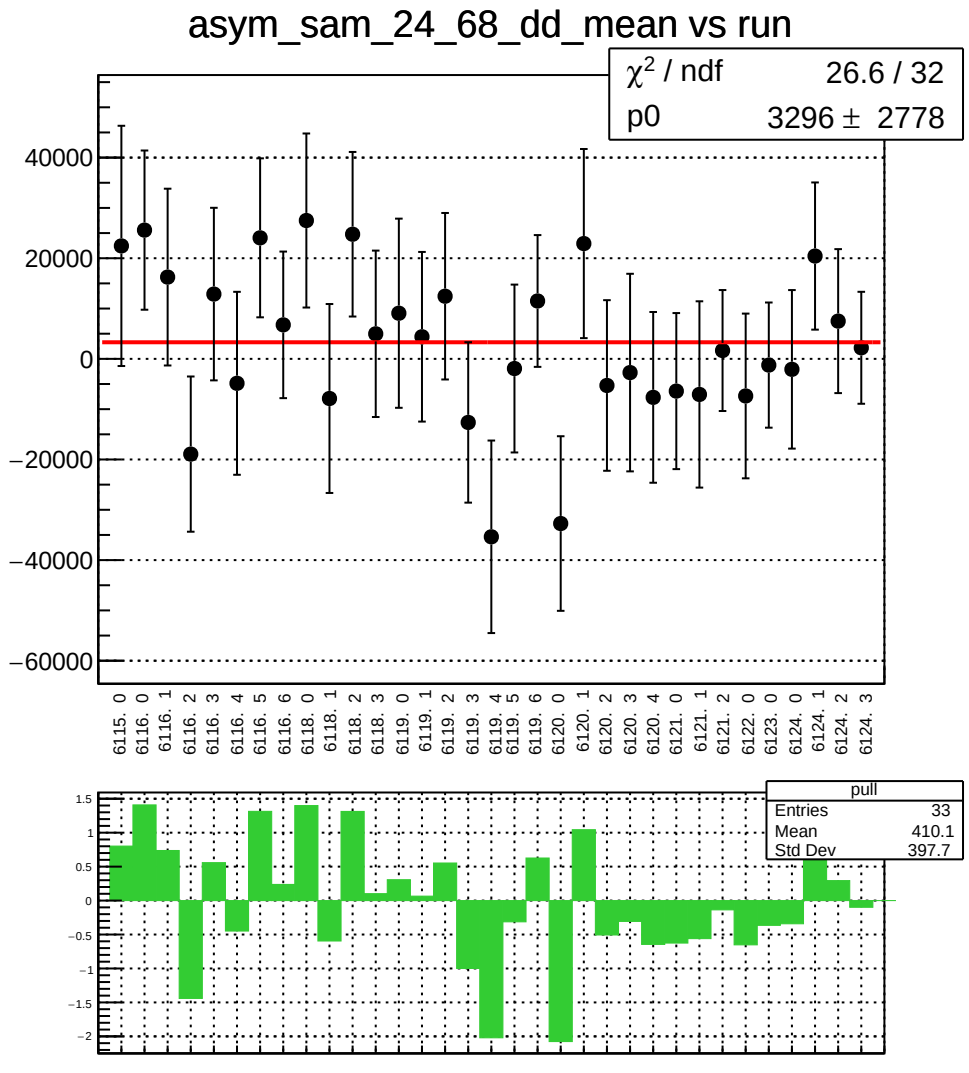

asym_sam_15_37_dd_rms vs run
χ² / ndf 3602 / 32
p0 546.4 ± 0.678
650
600
550
500
450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

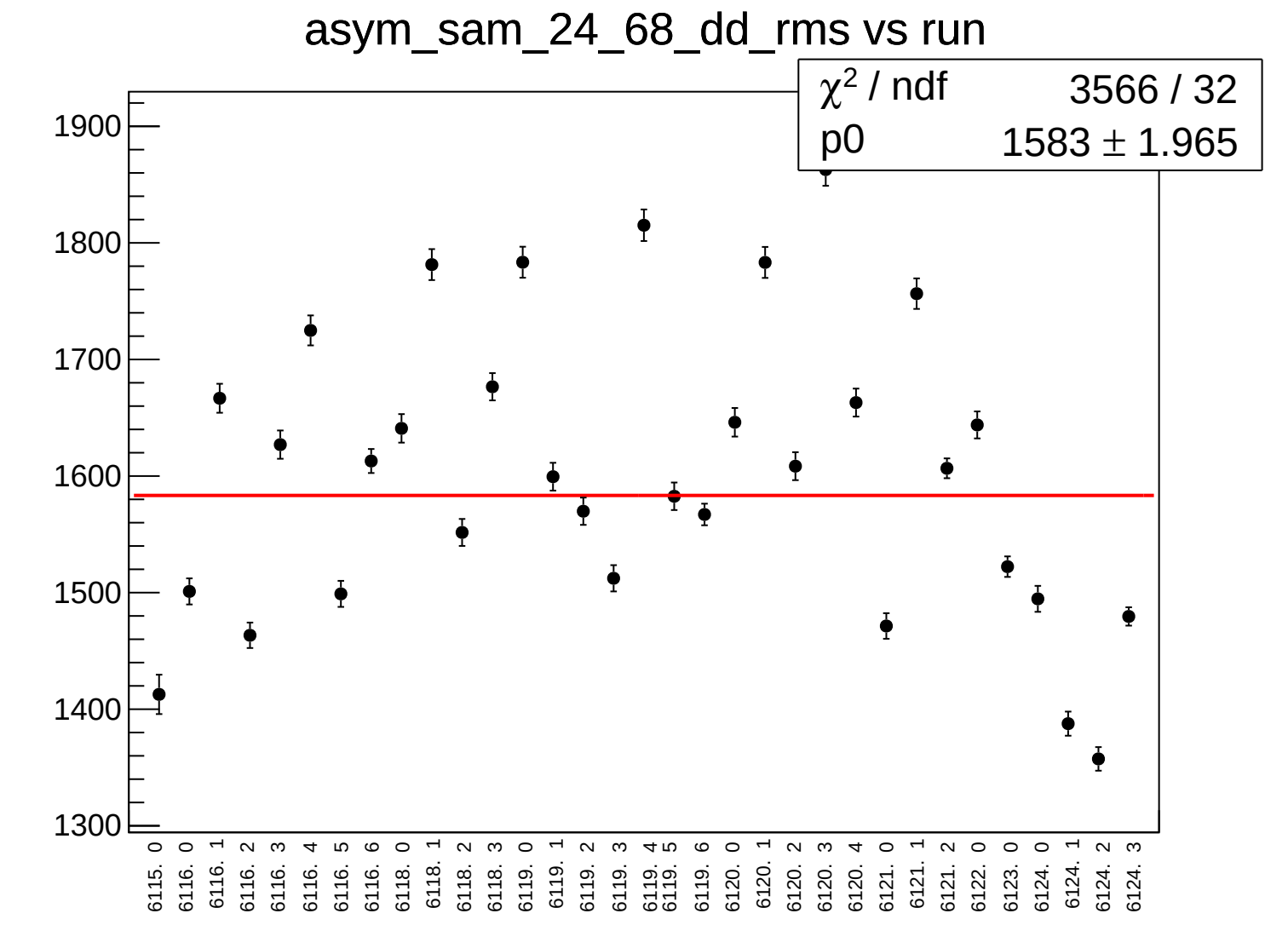

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 18.94 / 32
p0 −104.9 ± 131.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 168.2
Std Dev 146.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.005178
Std Dev 0.7577
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

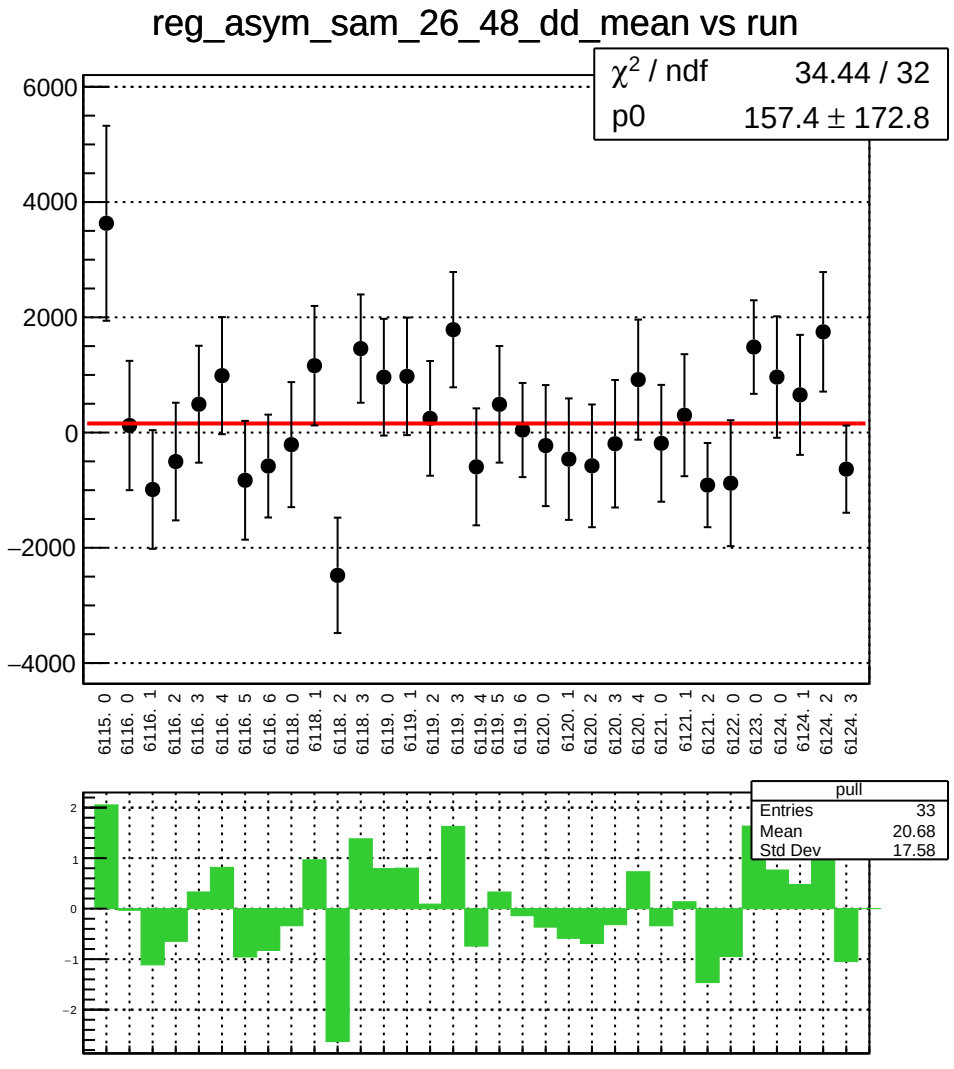

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1230 / 32
p0 75.21 ± 0.09315
88
86
84
82
80
78
76
74
72
70
68
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

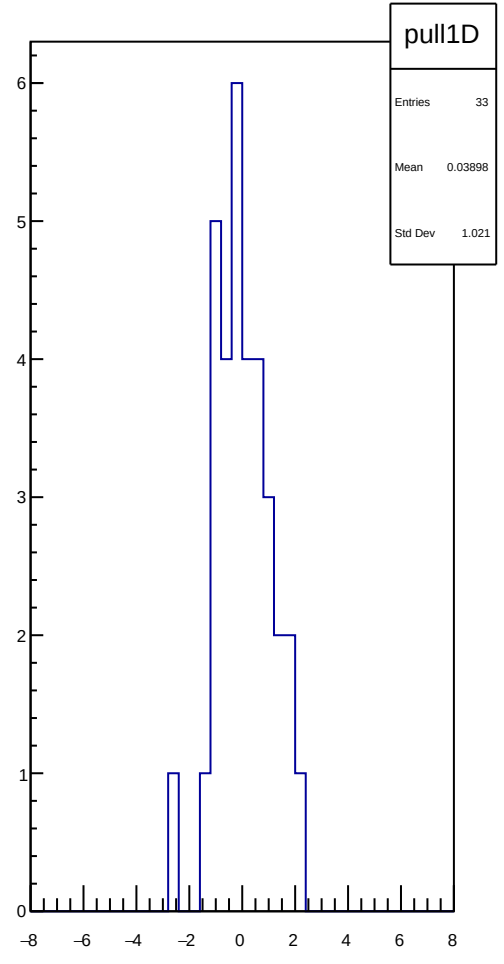

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 27.34 / 32
p0 −3426 ± 2775
60000
40000
20000
0
−20000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 374.9
Std Dev 362.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006479
Std Dev 0.9102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

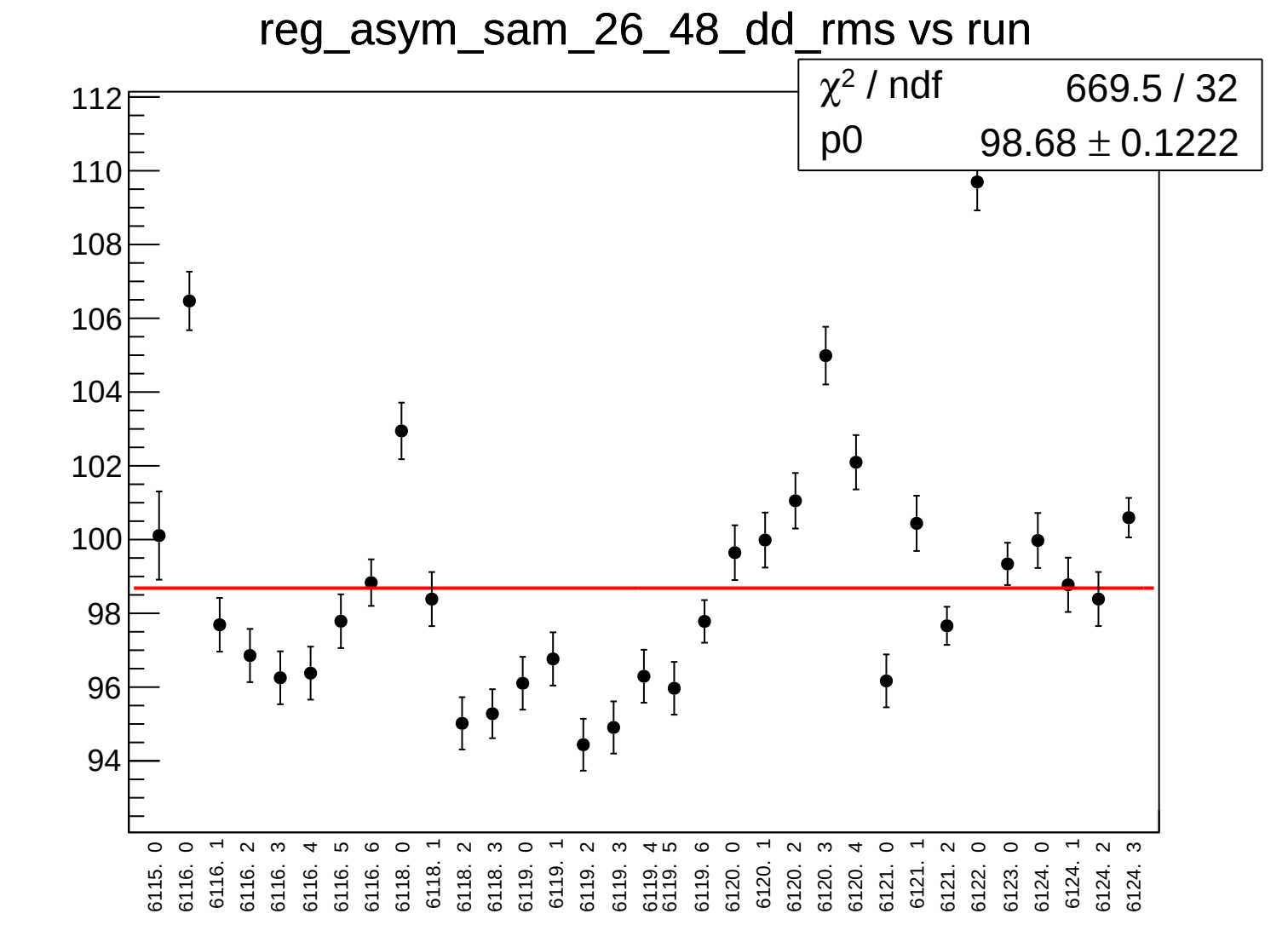

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3579 / 32
p0 1582 ± 1.962
1900
1800
1700
1600
1500
1400
1300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

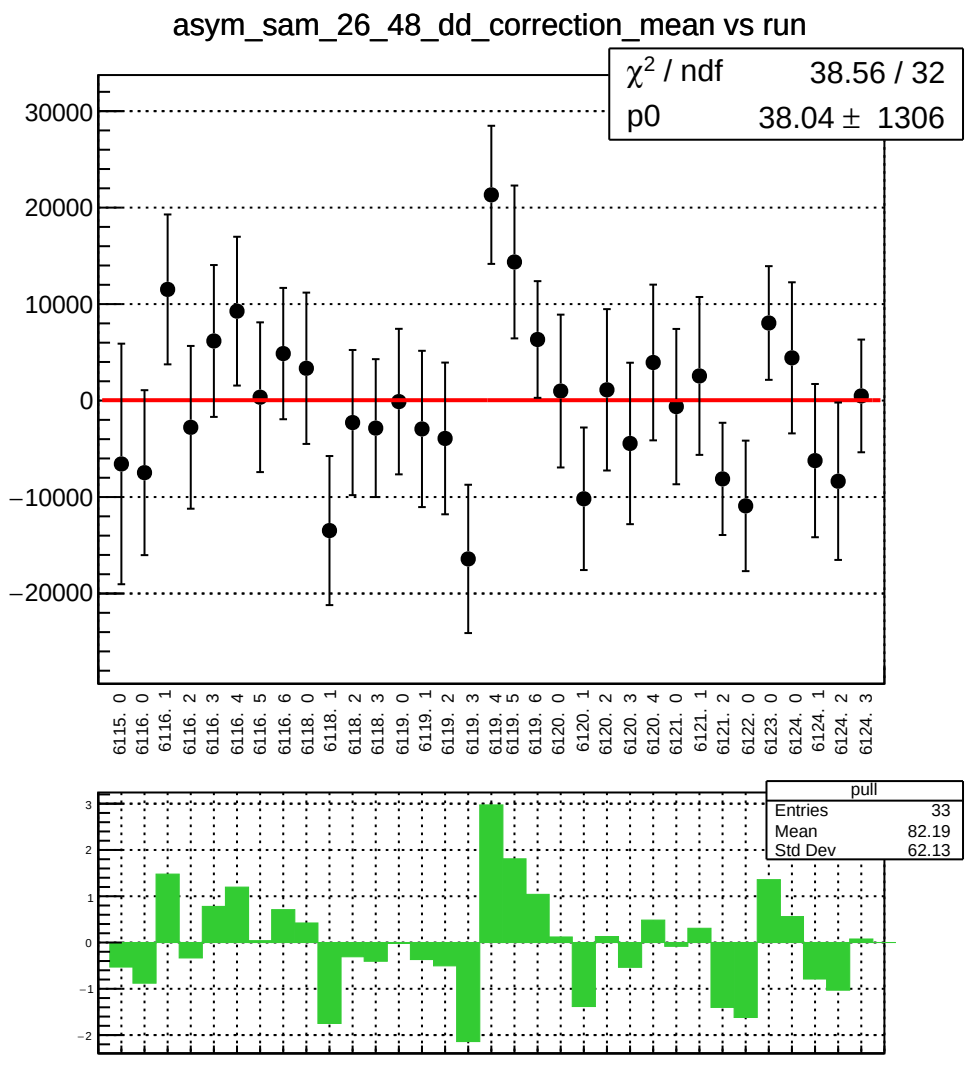

asym_sam_24_68_dd_mean vs run
χ² / ndf 26.6 / 32
p0 3296 ± 2778
40000
20000
0
−20000
−40000
−60000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 410.1
Std Dev 397.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.005983
Std Dev 0.8978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

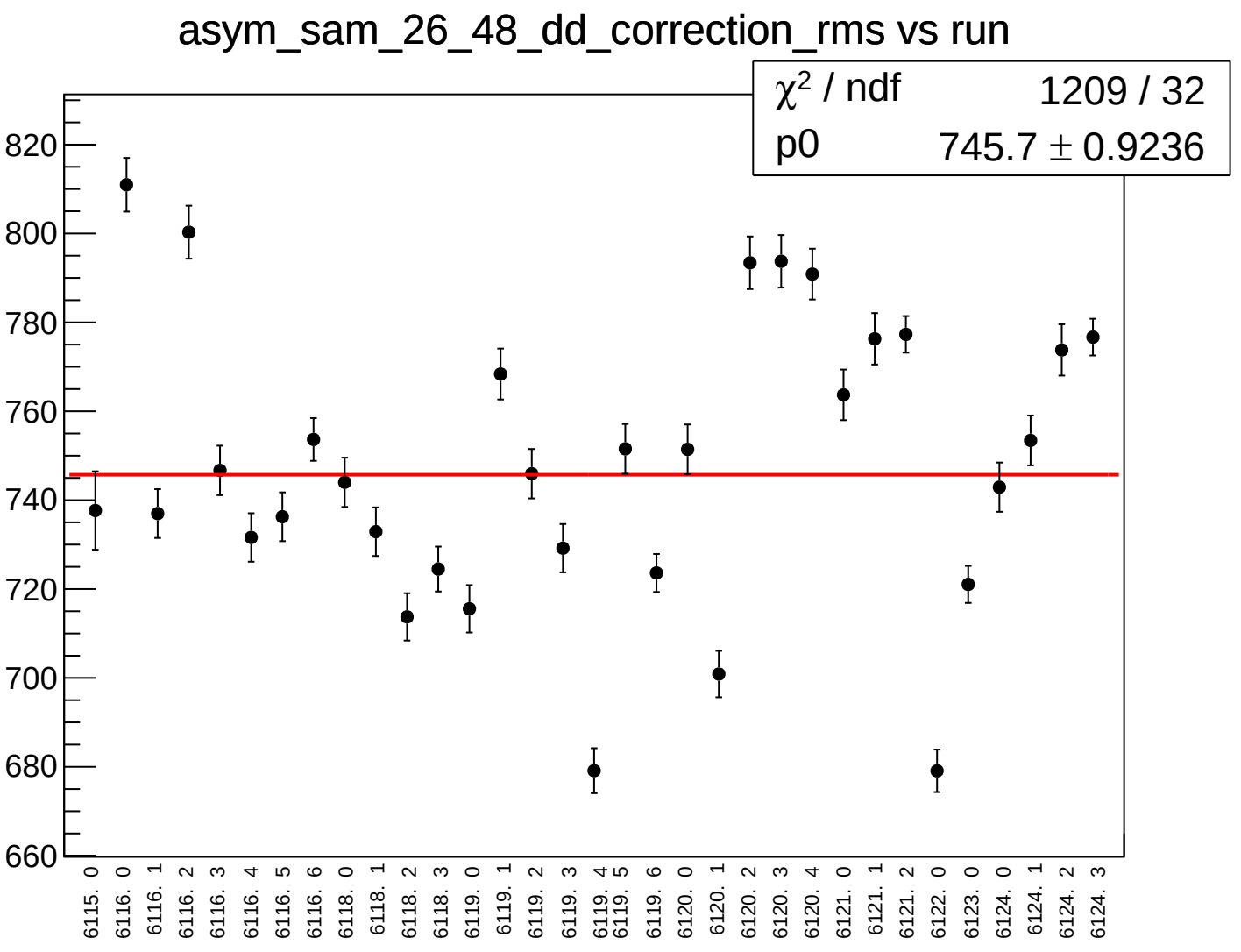

asym_sam_24_68_dd_rms vs run
χ² / ndf 3566 / 32
p0 1583 ± 1.965
1900
1800
1700
1600
1500
1400
1300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

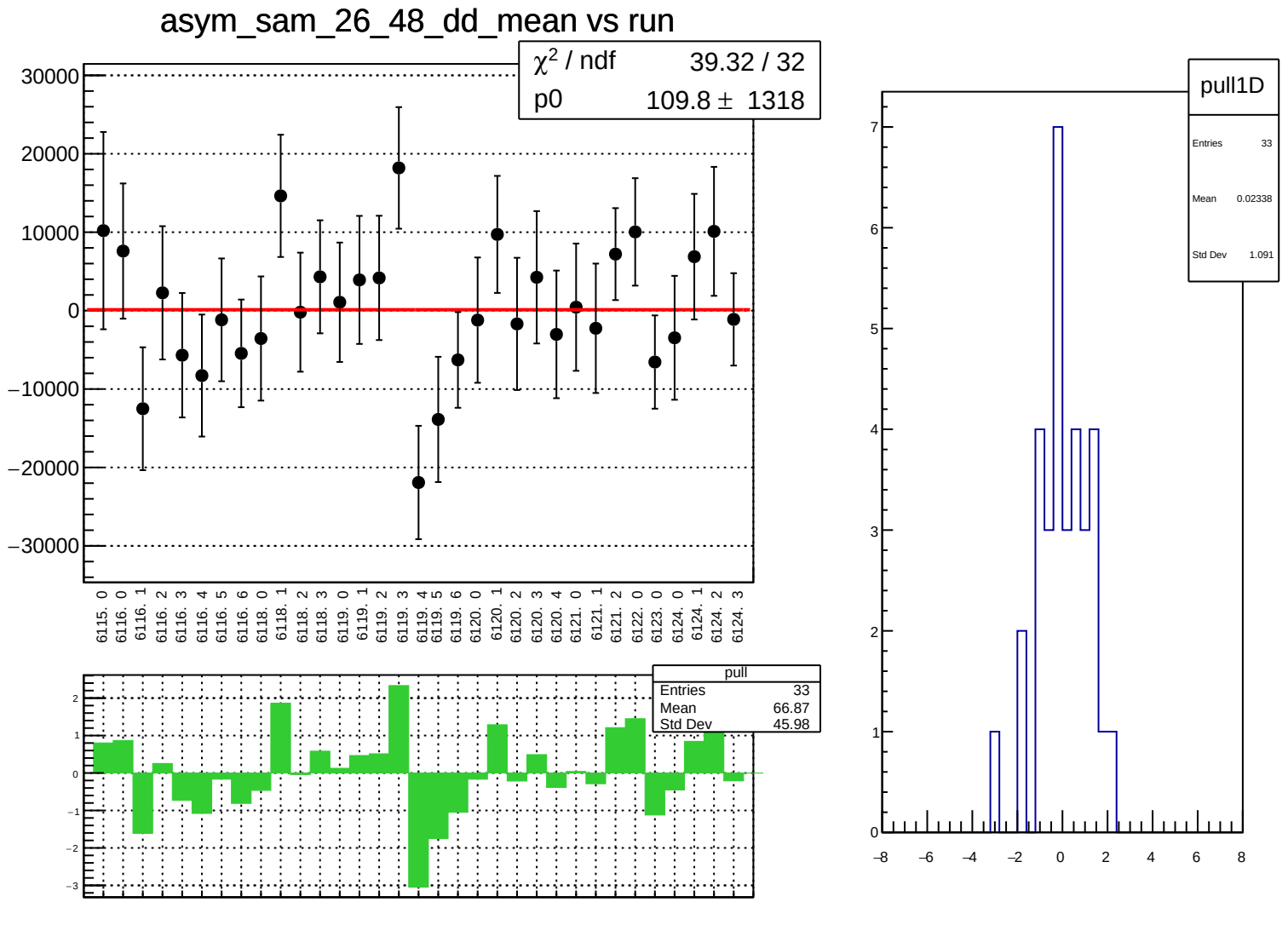

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 34.44 / 32
p0 157.4 ± 172.8
6000
4000
2000
0
−2000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 20.68
Std Dev 17.58
2
1
0
−1
−2

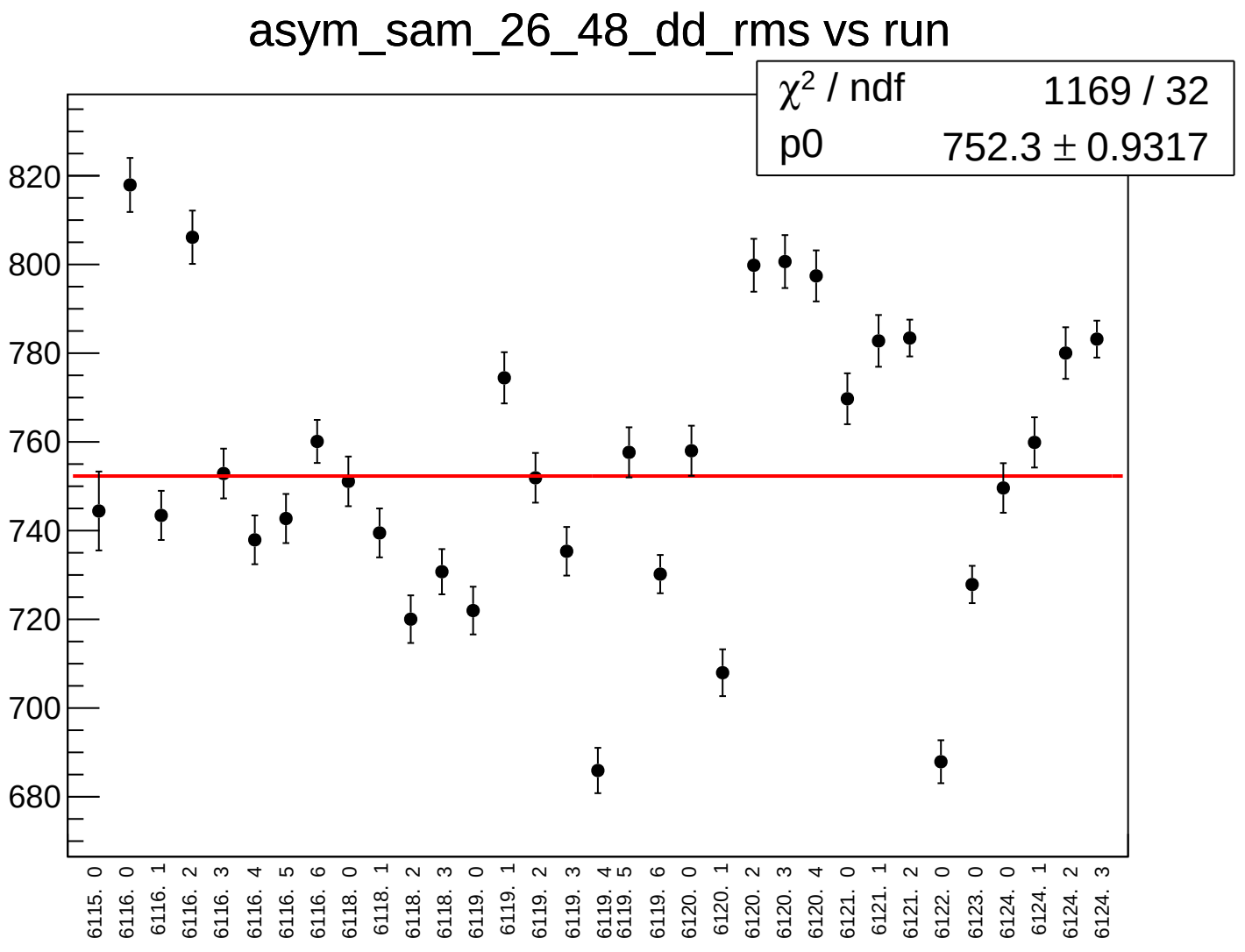

pull1D
Entries 33
Mean 0.03898
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

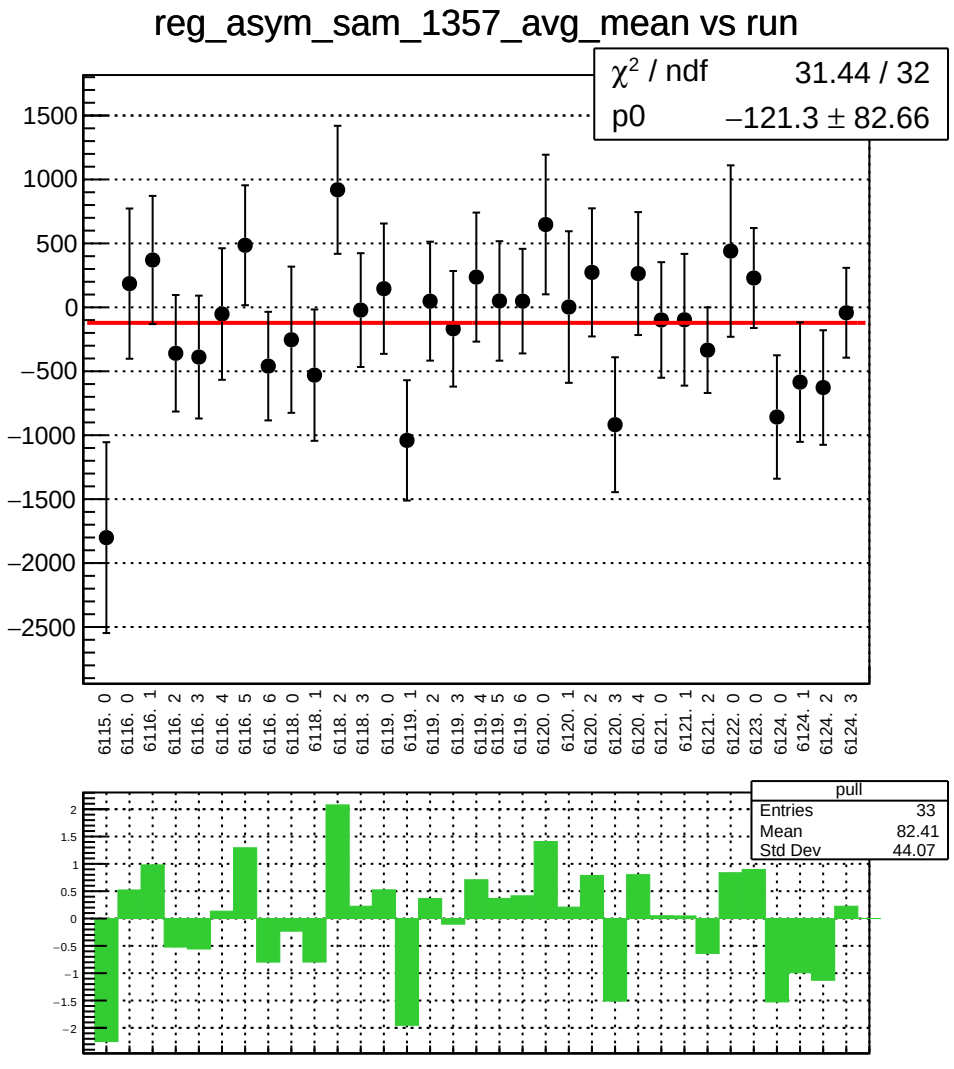

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 669.5 / 32
p0 98.68 ± 0.1222
112
110
108
106
104
102
100
98
96
94
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

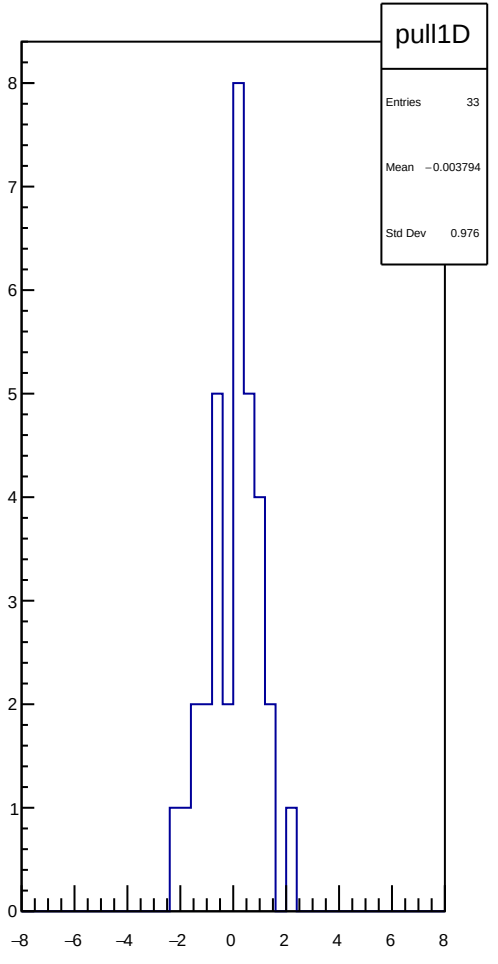

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 38.56 / 32
p0 38.04 ± 1306
30000
20000
10000
0
−10000
−20000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 82.19
Std Dev 62.13
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01791
Std Dev 1.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

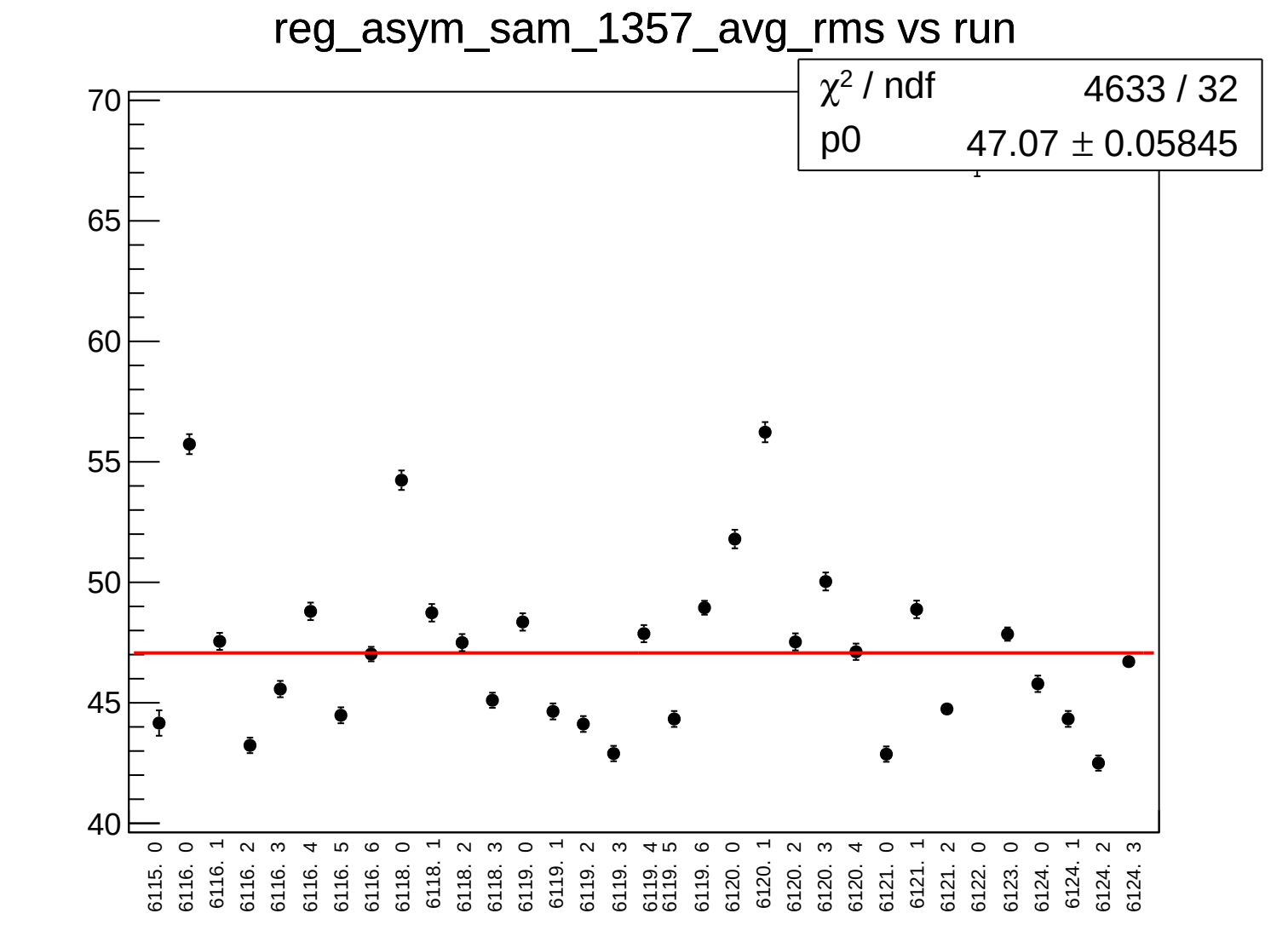

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1209 / 32
p0 745.7 ± 0.9236
820
800
780
760
740
720
700
680
660
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

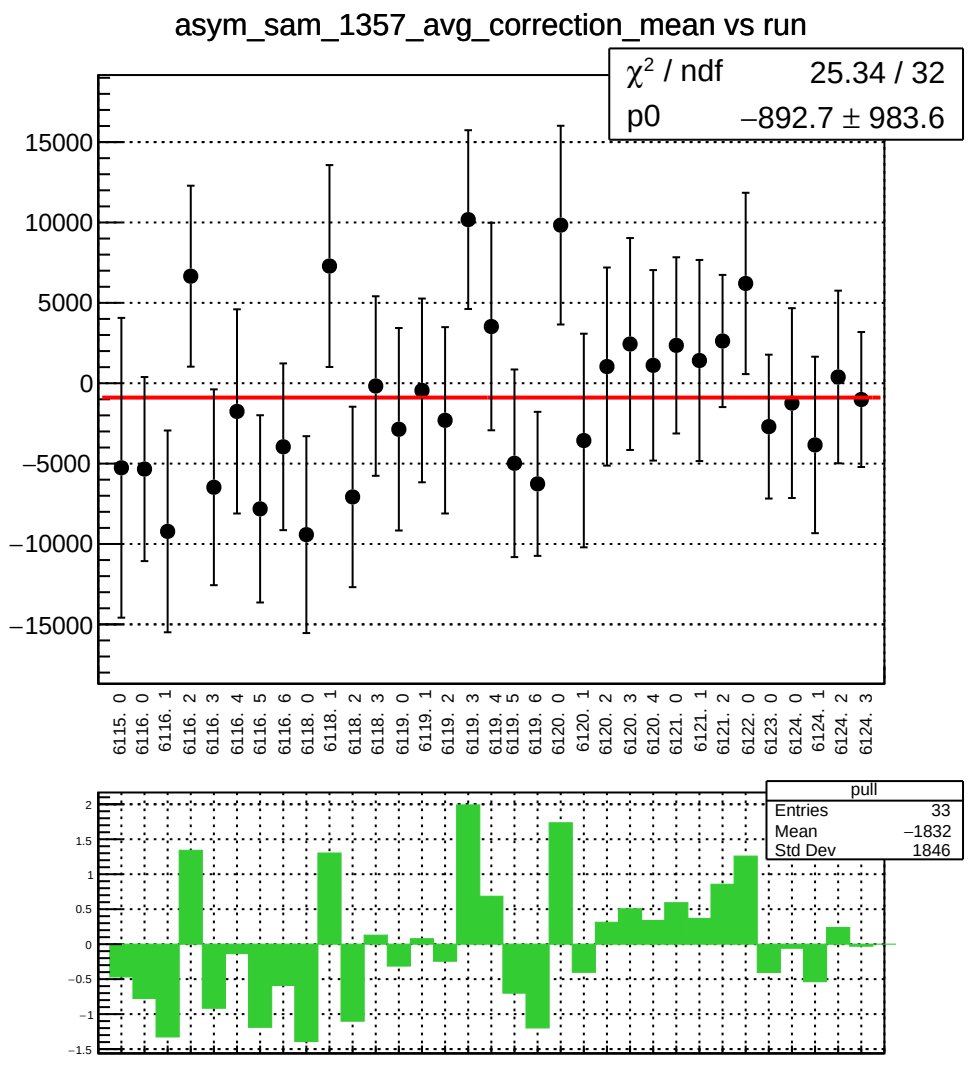

asym_sam_26_48_dd_mean vs run
χ² / ndf 39.32 / 32
p0 109.8 ± 1318
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 66.87
Std Dev 45.98
pull1D
Entries 33
Mean 0.02338
Std Dev 1.091

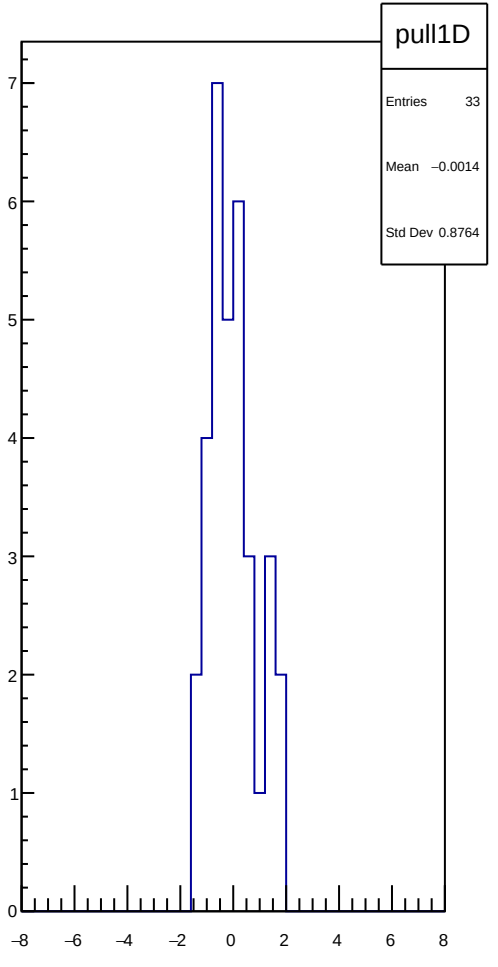

asym_sam_26_48_dd_rms vs run
χ² / ndf 1169 / 32
p0 752.3 ± 0.9317
820
800
780
760
740
720
700
680
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

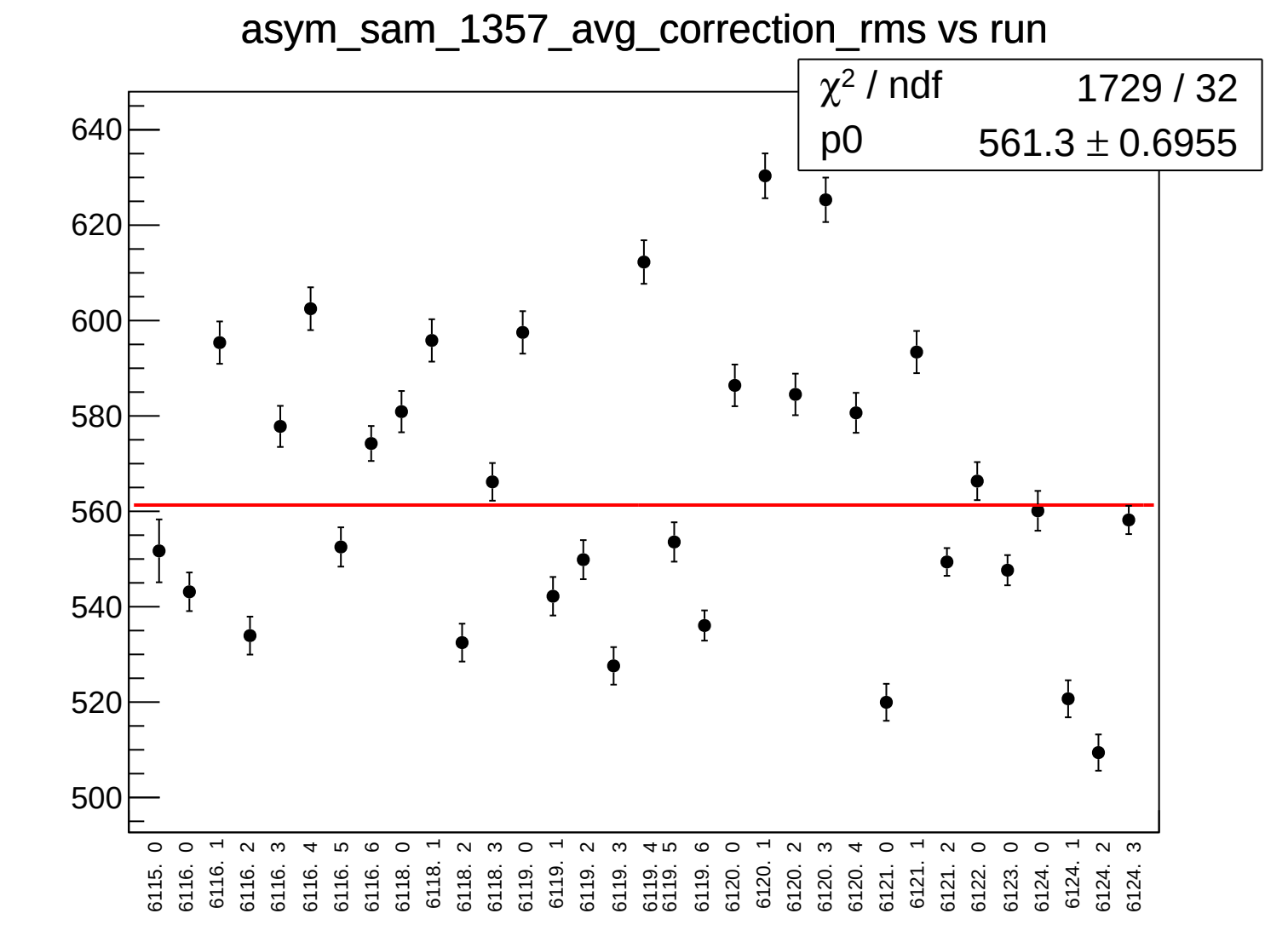

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 31.44 / 32
p0 −121.3 ± 82.66
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 82.41
Std Dev 44.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

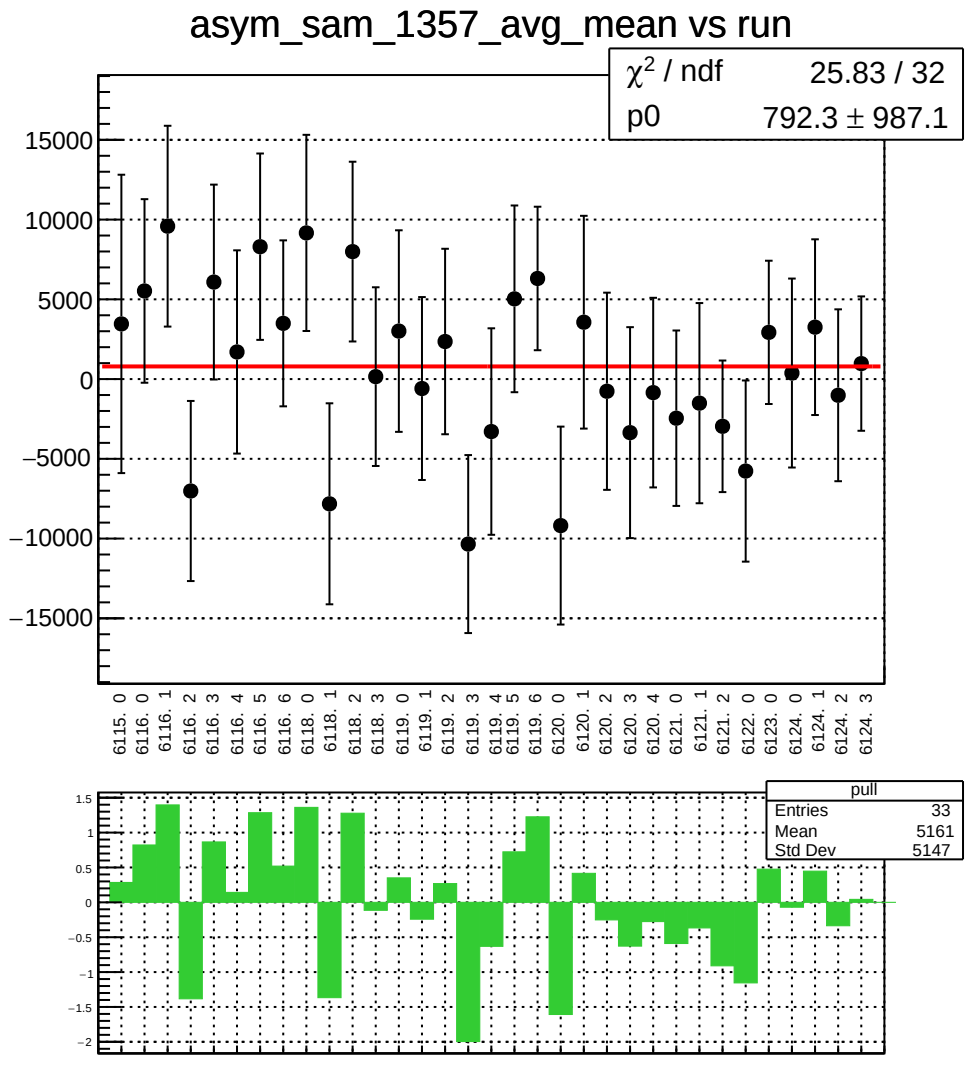

pull1D
Entries 33
Mean −0.003794
Std Dev 0.976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

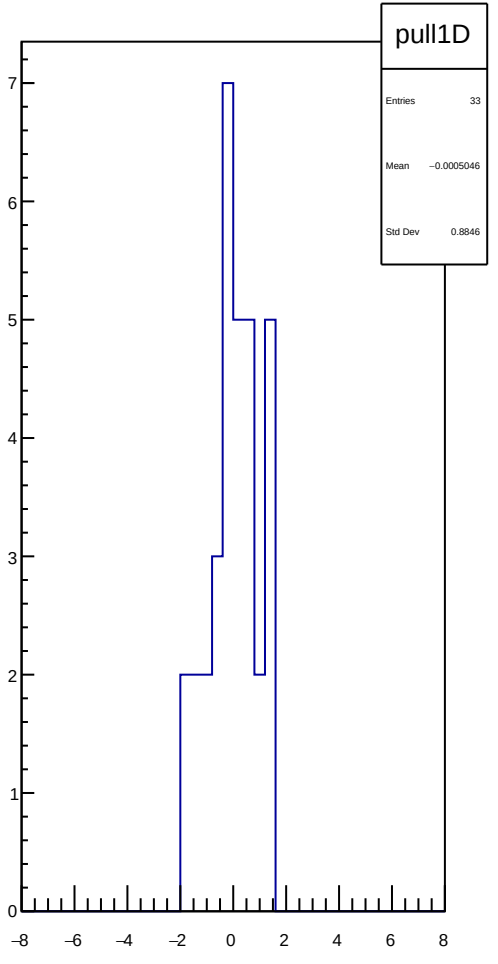

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4633 / 32
p0 47.07 ± 0.05845
70
65
60
55
50
45
40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

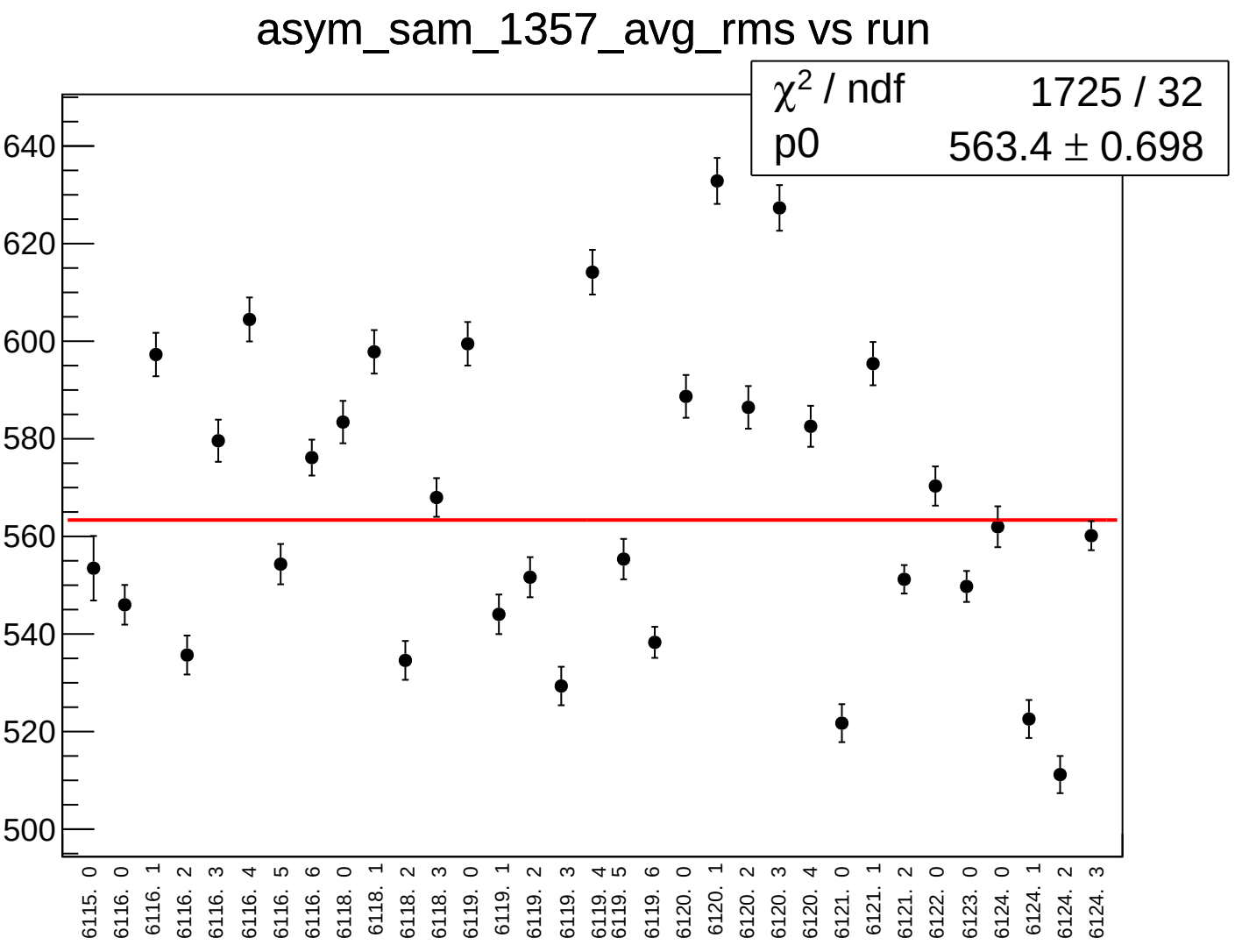

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 25.34 / 32
p0 −892.7 ± 983.6
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1832
Std Dev 1846
2
1.5
1
0.5
0
−0.5
−1
−1.5

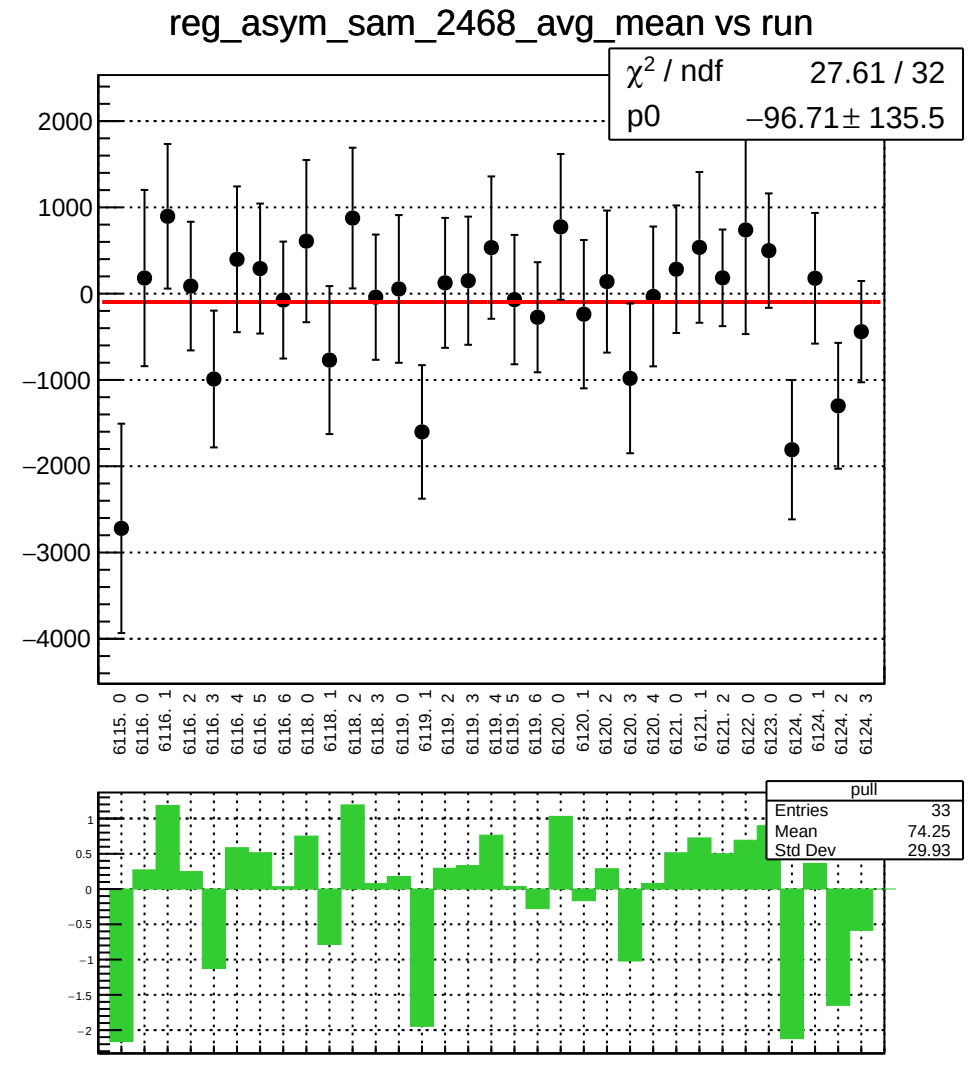

pull1D
Entries 33
Mean −0.0014
Std Dev 0.8764
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

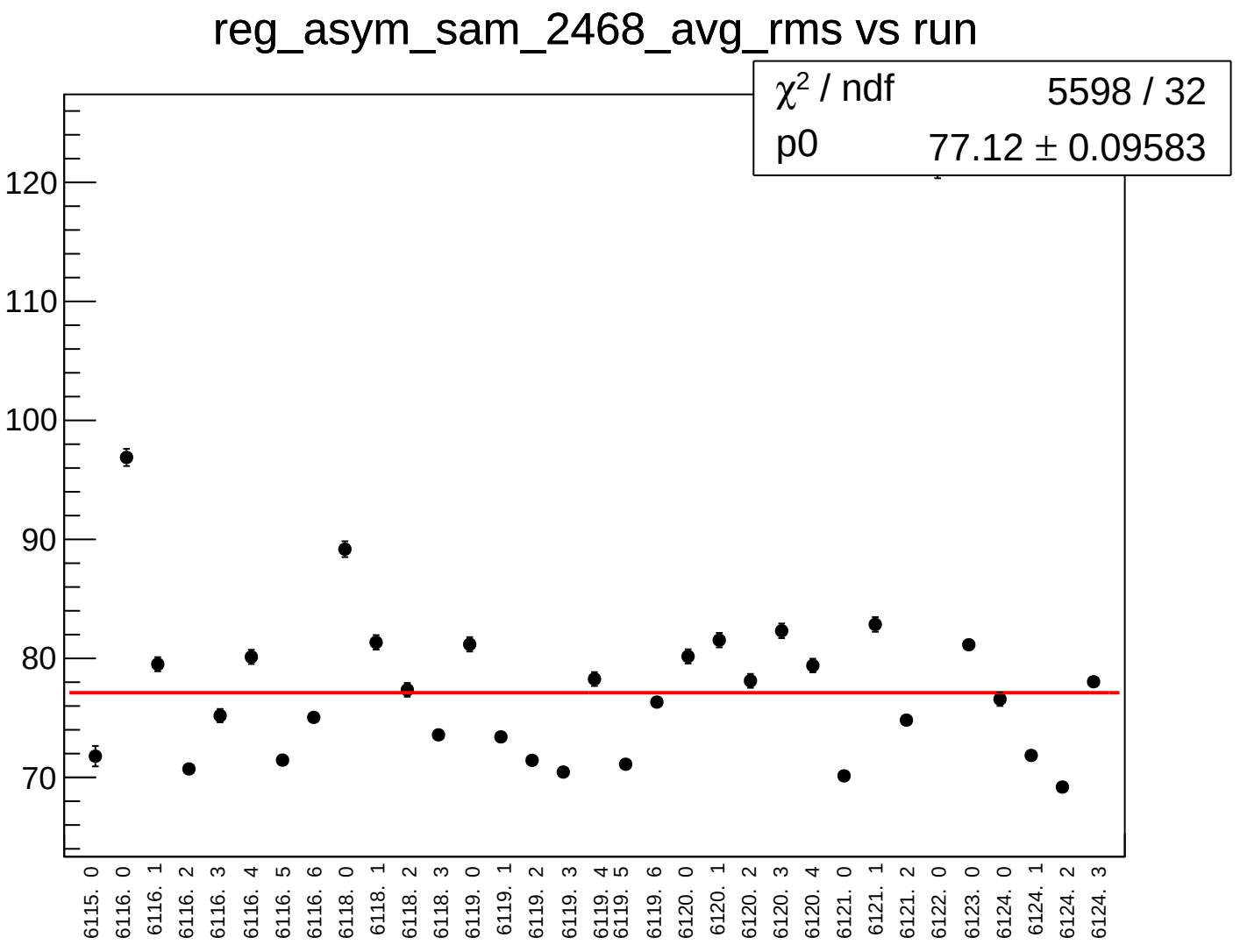

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1729 / 32
p0 561.3 ± 0.6955
640
620
600
580
560
540
520
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

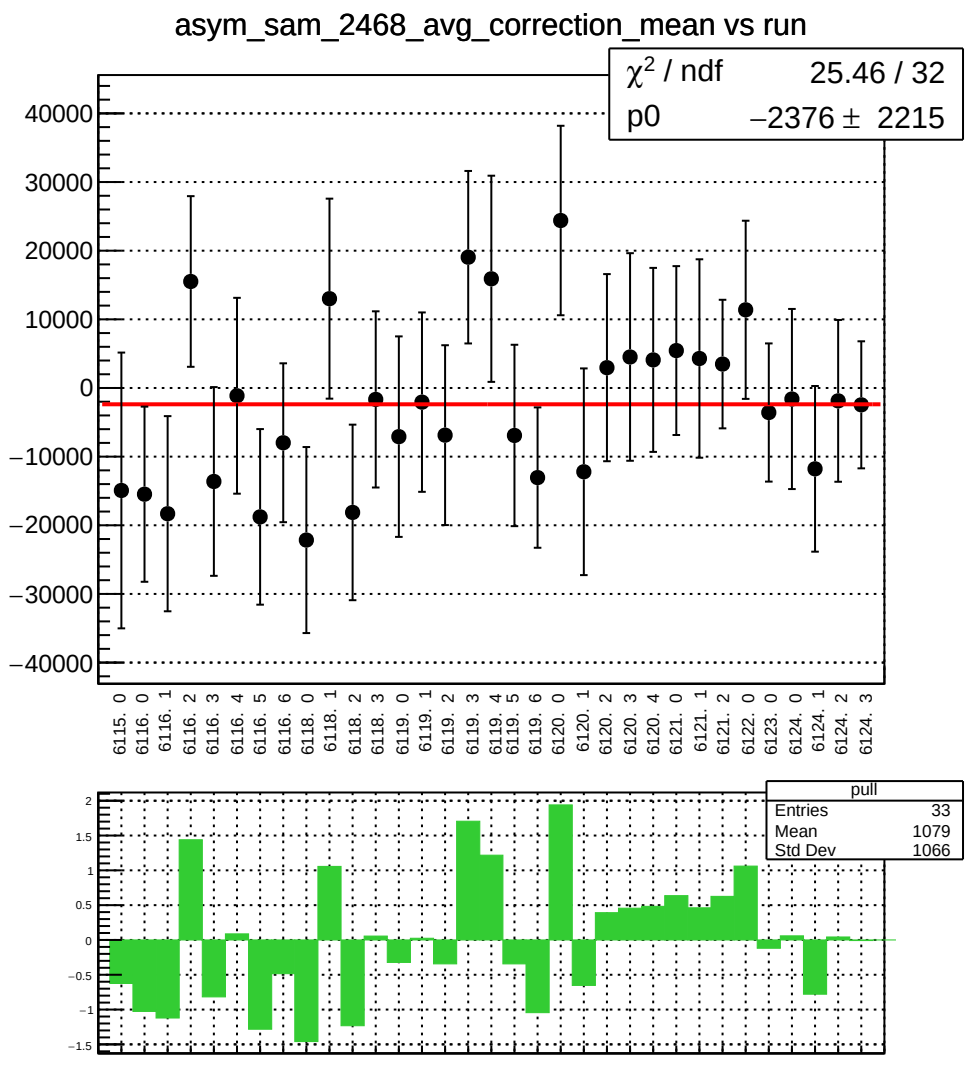

asym_sam_1357_avg_mean vs run
χ² / ndf 25.83 / 32
p0 792.3 ± 987.1
15000
10000
5000
0
−5000
−10000
−15000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 5161
Std Dev 5147
1.5
1
0.5
0
−0.5
−1
−1.5
−2

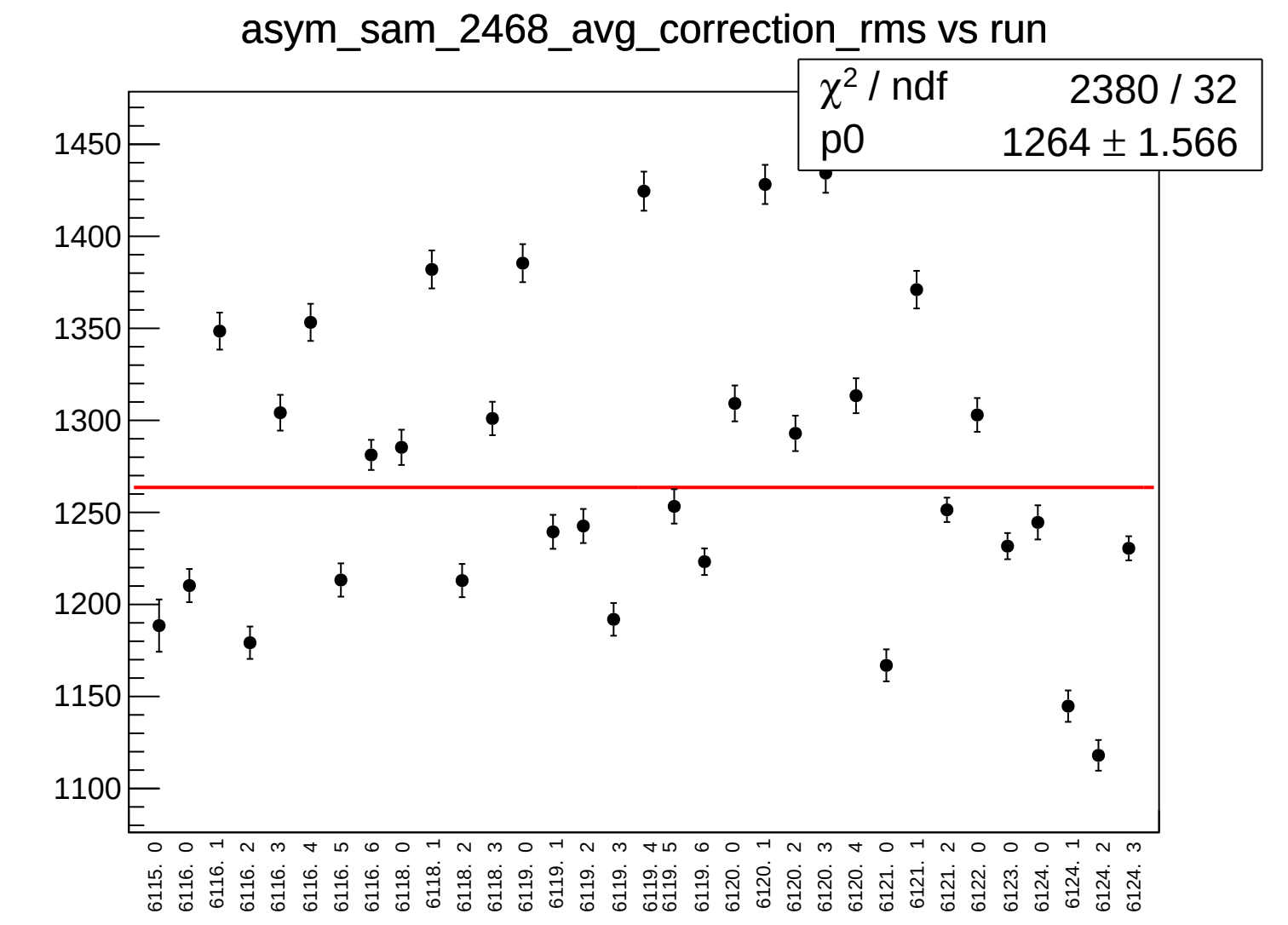

pull1D
Entries 33
Mean −0.0005046
Std Dev 0.8846
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

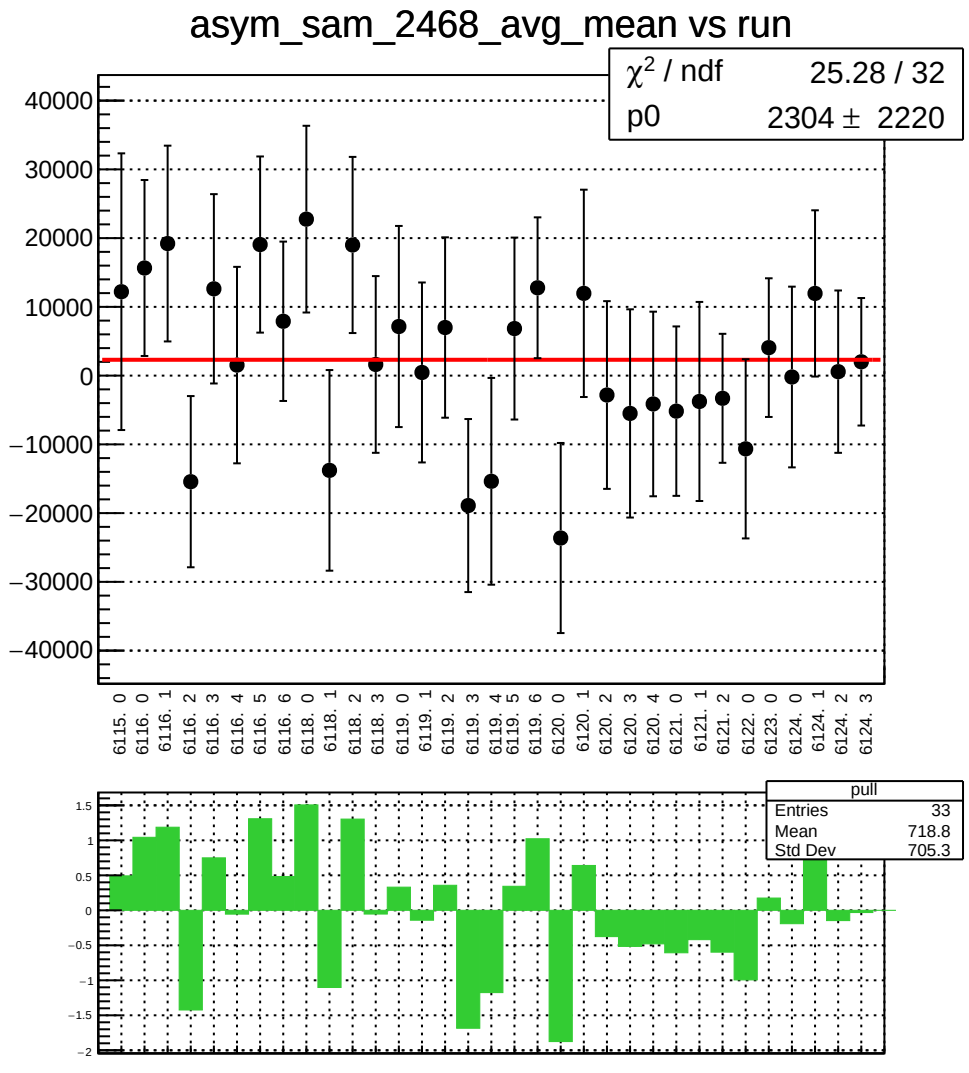

asym_sam_1357_avg_rms vs run
χ² / ndf 1725 / 32
p0 563.4 ± 0.698
640
620
600
580
560
540
520
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

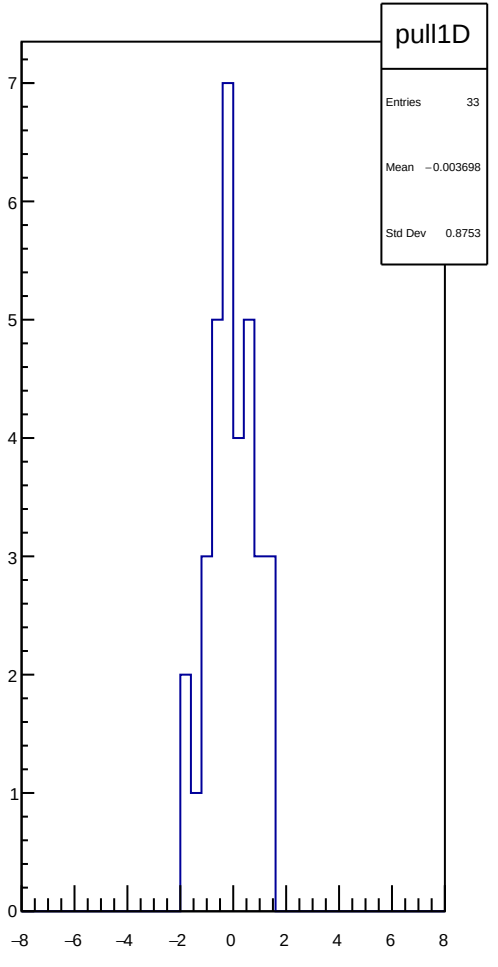

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 27.61 / 32
p0 −96.71 ± 135.5
2000
1000
0
−1000
−2000
−3000
−4000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 74.25
Std Dev 29.93
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.008542
Std Dev 0.9147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

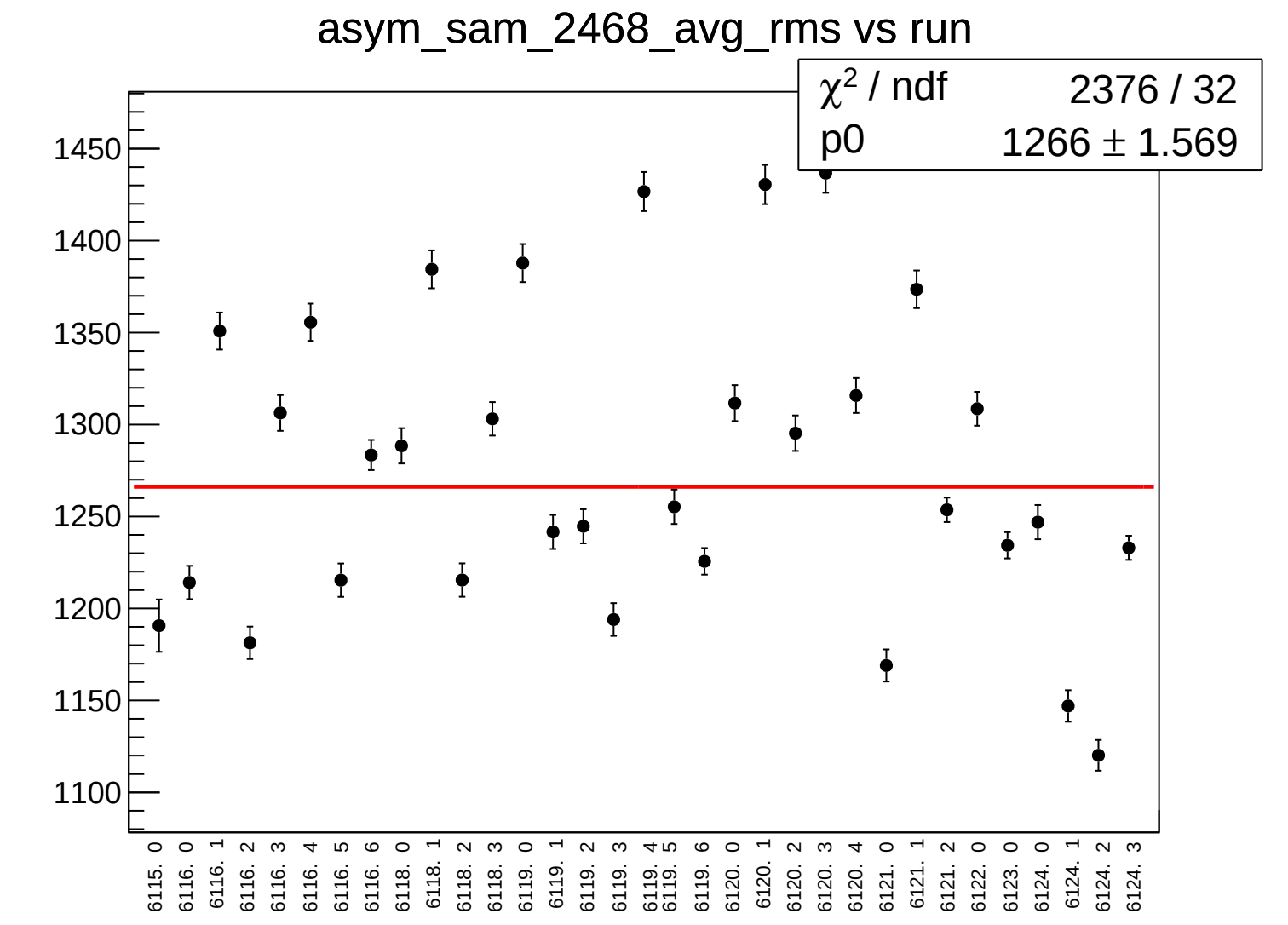

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 5598 / 32
p0 77.12 ± 0.09583
120
110
100
90
80
70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

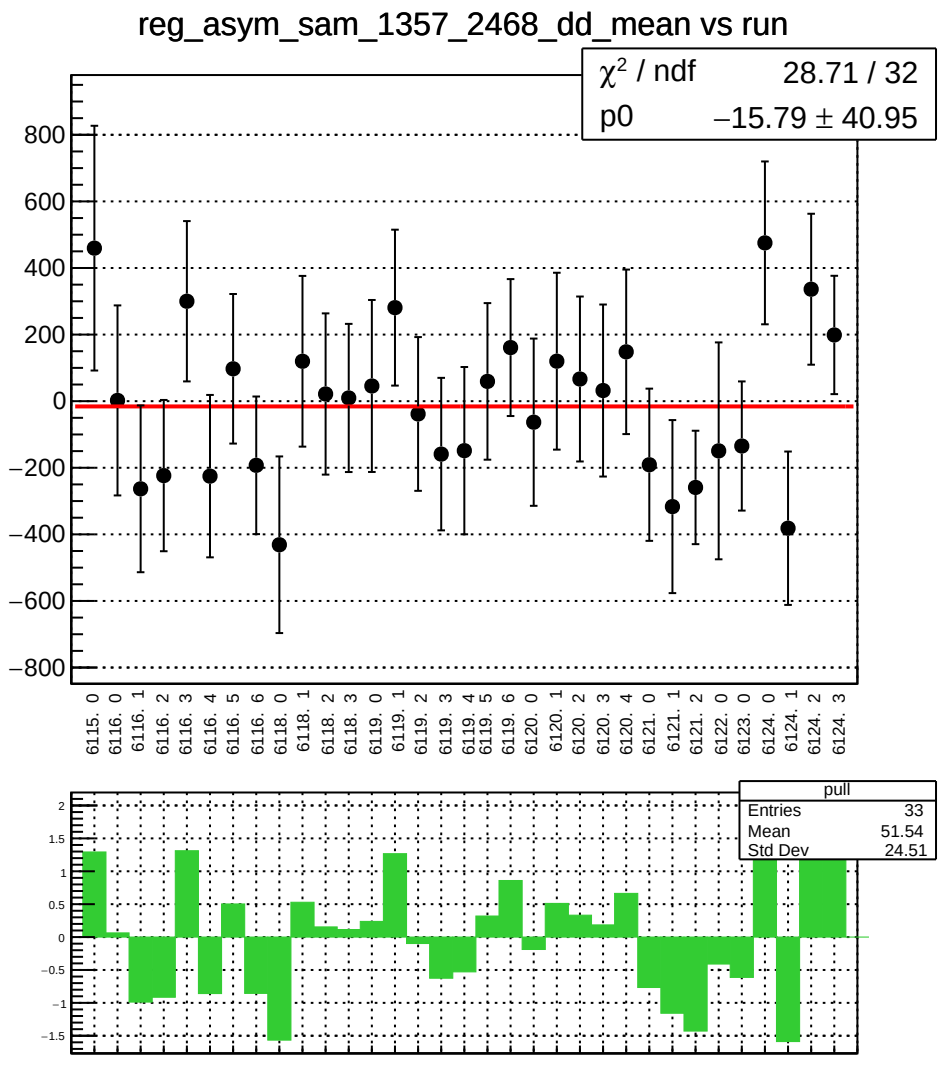

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 25.46 / 32
p0 −2376 ± 2215
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1079
Std Dev 1066
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.002422
Std Dev 0.8784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

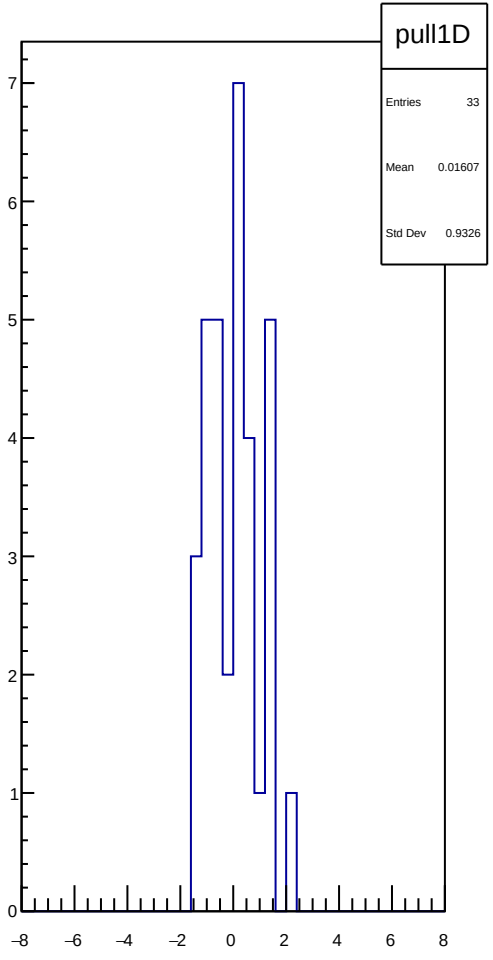

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2380 / 32
p0 1264 ± 1.566
1450
1400
1350
1300
1250
1200
1150
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

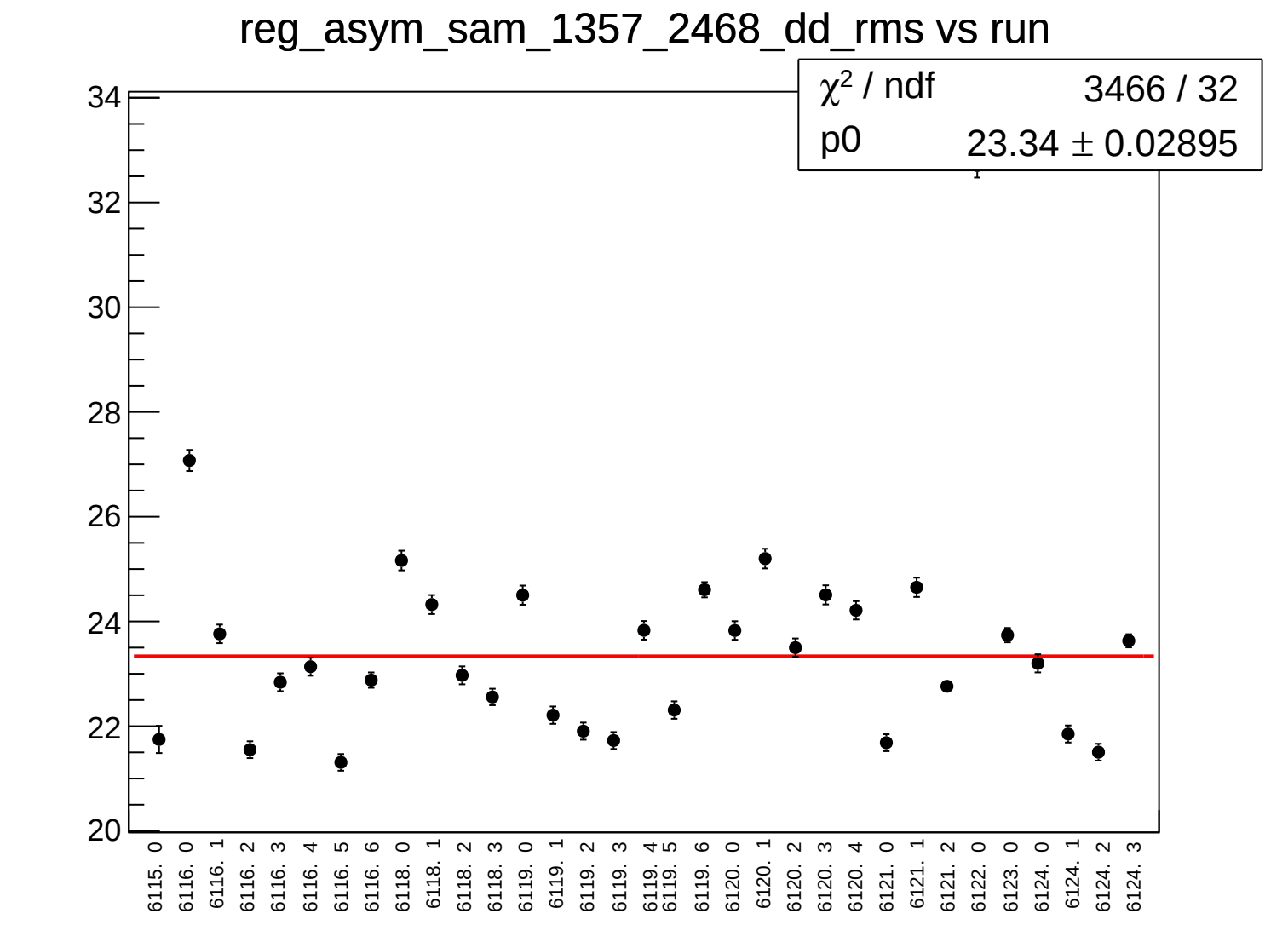

asym_sam_2468_avg_mean vs run
χ² / ndf 25.28 / 32
p0 2304 ± 2220
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 718.8
Std Dev 705.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

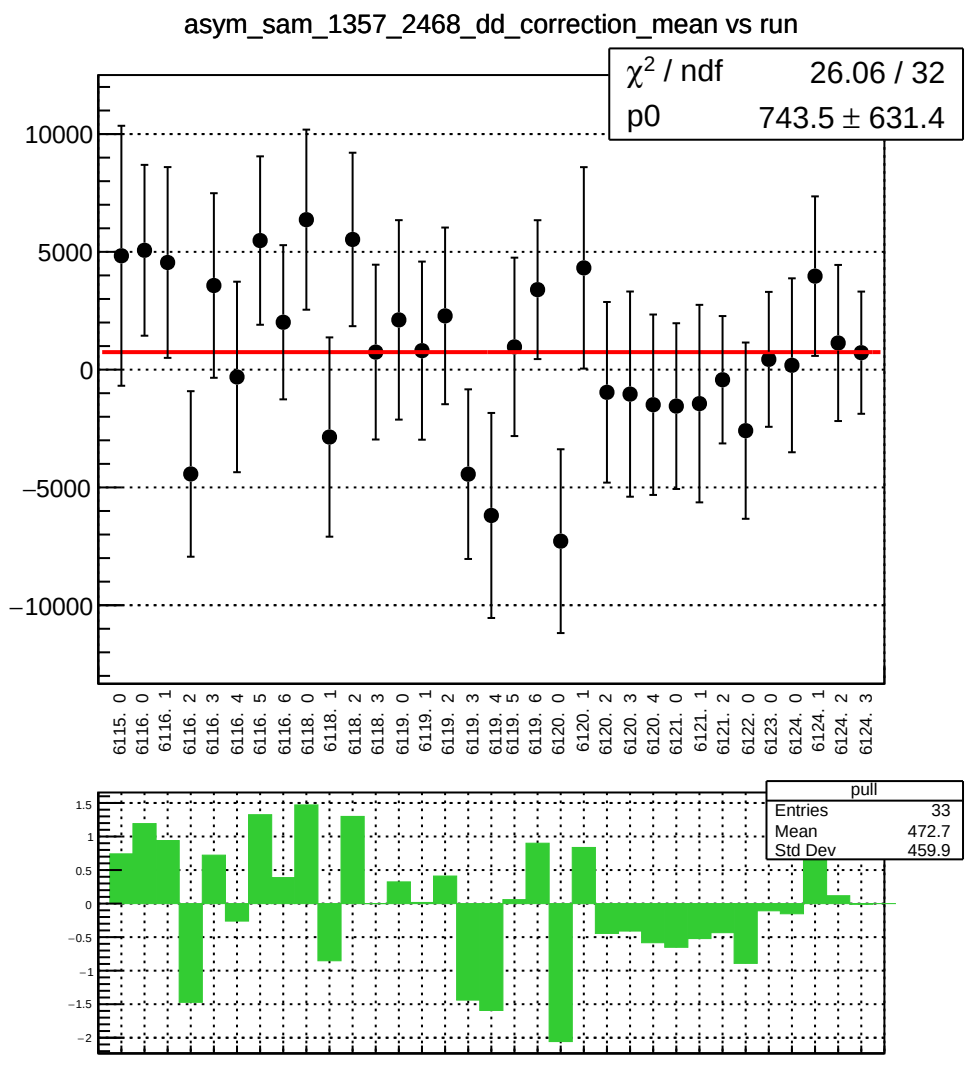

pull1D
Entries 33
Mean −0.003698
Std Dev 0.8753
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

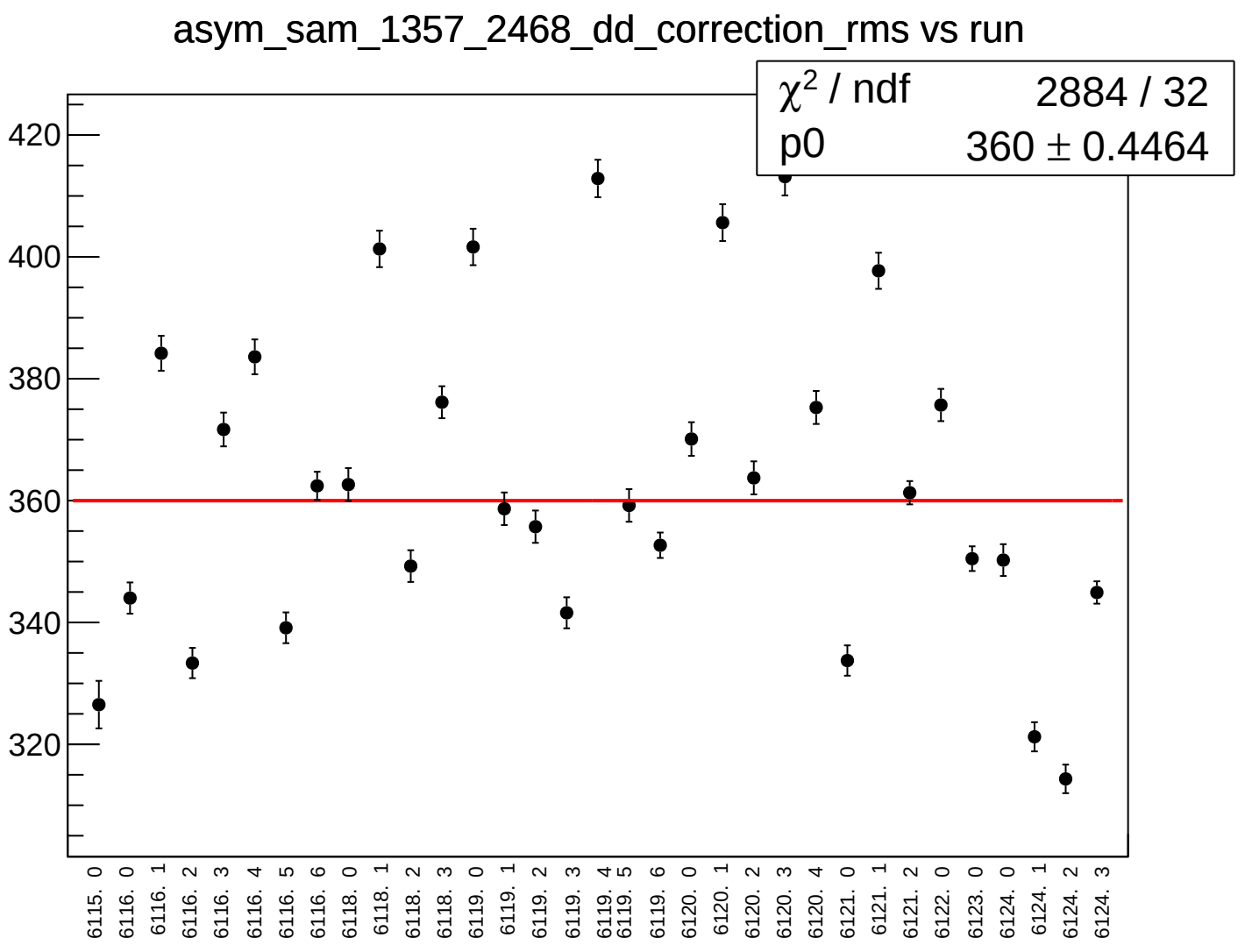

asym_sam_2468_avg_rms vs run
χ² / ndf 2376 / 32
p0 1266 ± 1.569
1450
1400
1350
1300
1250
1200
1150
1100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

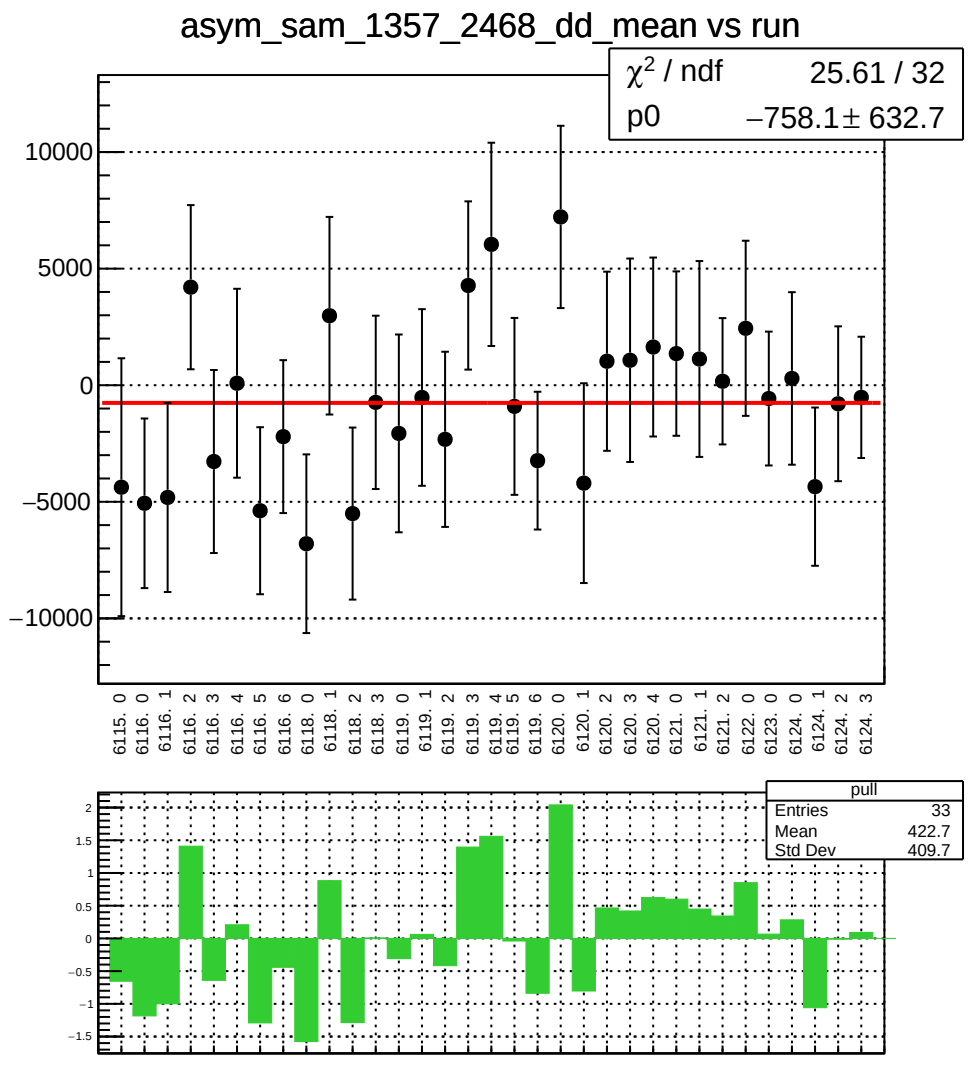

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 28.71 / 32
p0 −15.79 ± 40.95
800
600
400
200
0
−200
−400
−600
−800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.54
Std Dev 24.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

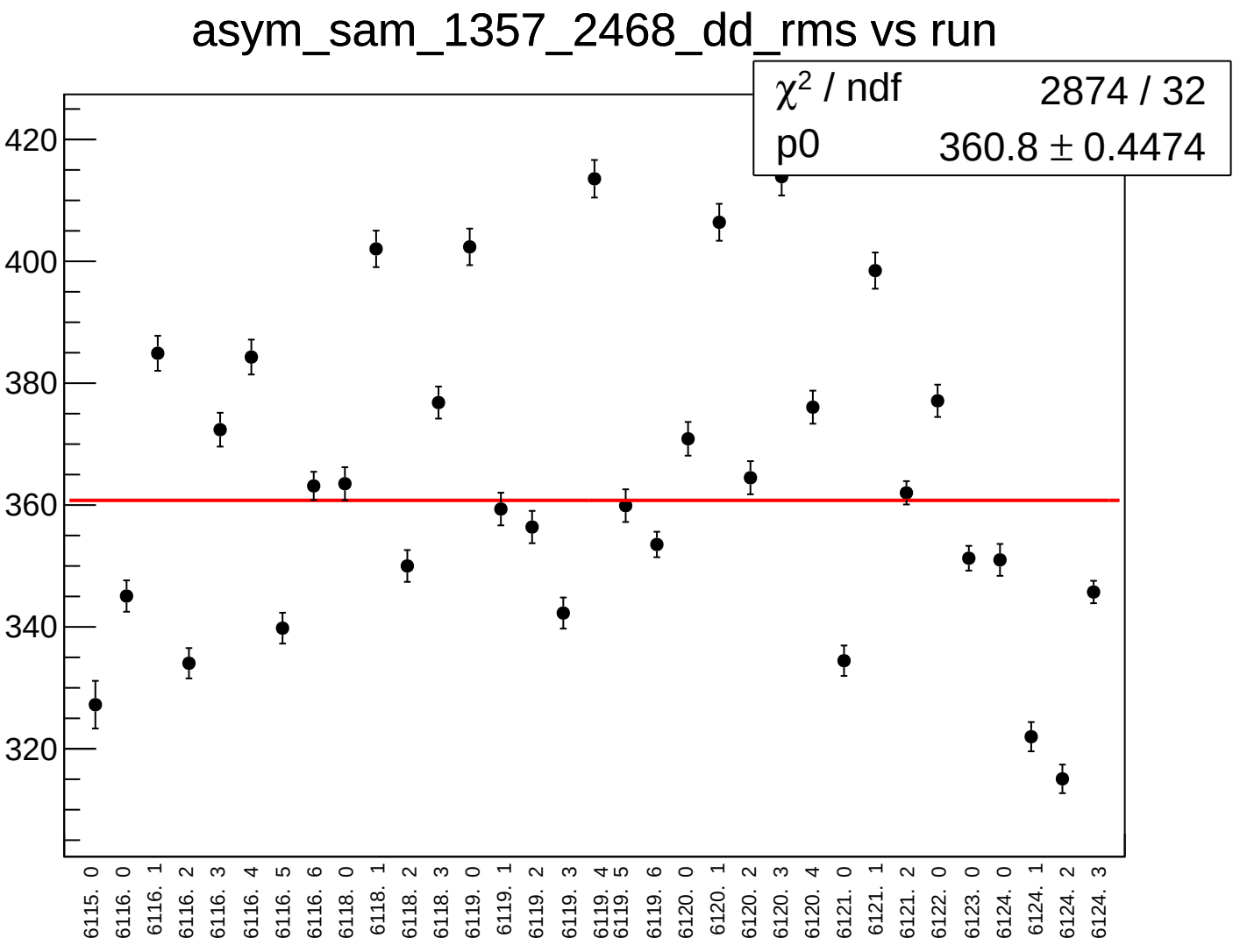

pull1D
Entries 33
Mean 0.01607
Std Dev 0.9326
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

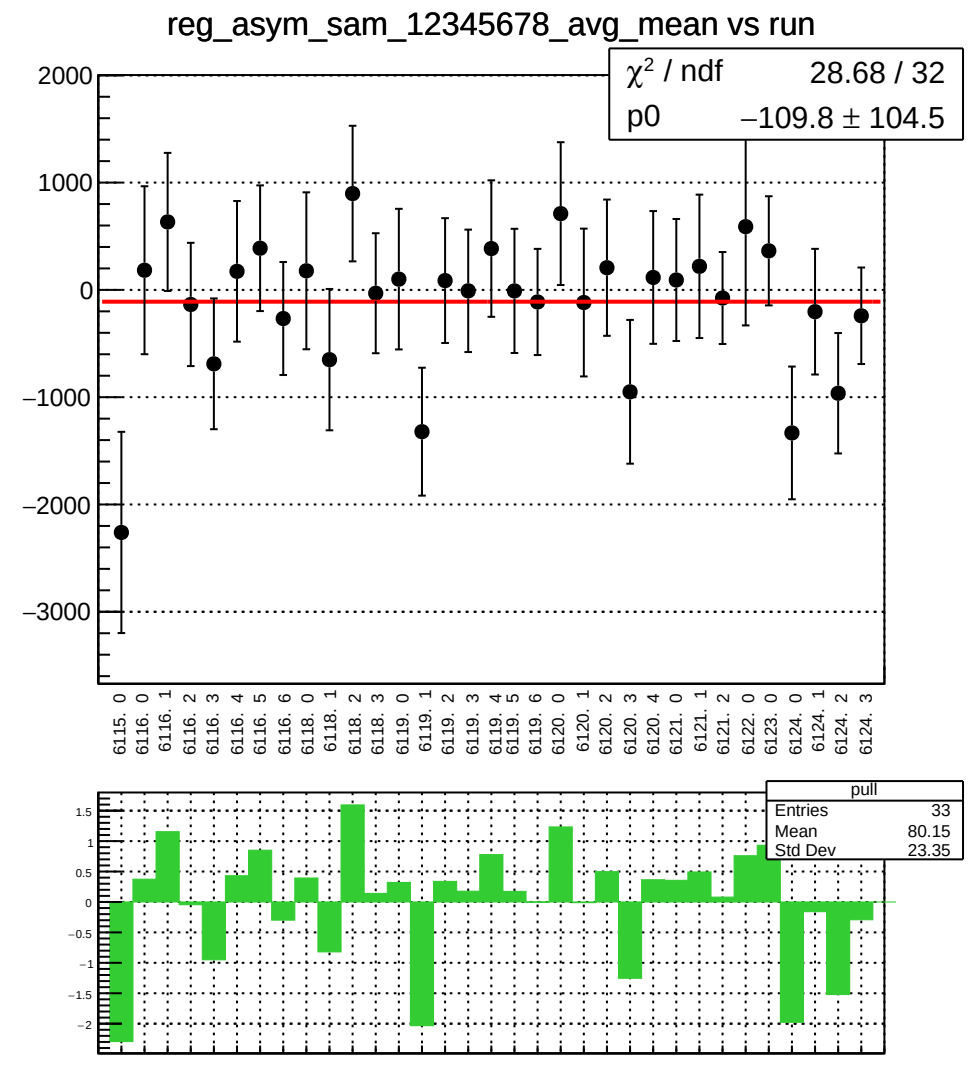

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3466 / 32
p0 23.34 ± 0.02895
34
32
30
28
26
24
22
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

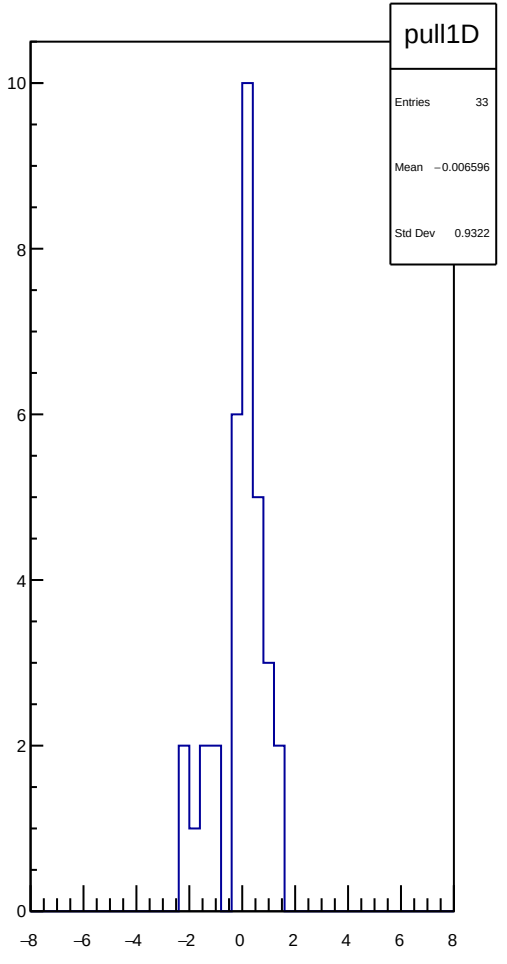

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 26.06 / 32
p0 743.5 ± 631.4
10000
5000
0
−5000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 472.7
Std Dev 459.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.005493
Std Dev 0.8886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

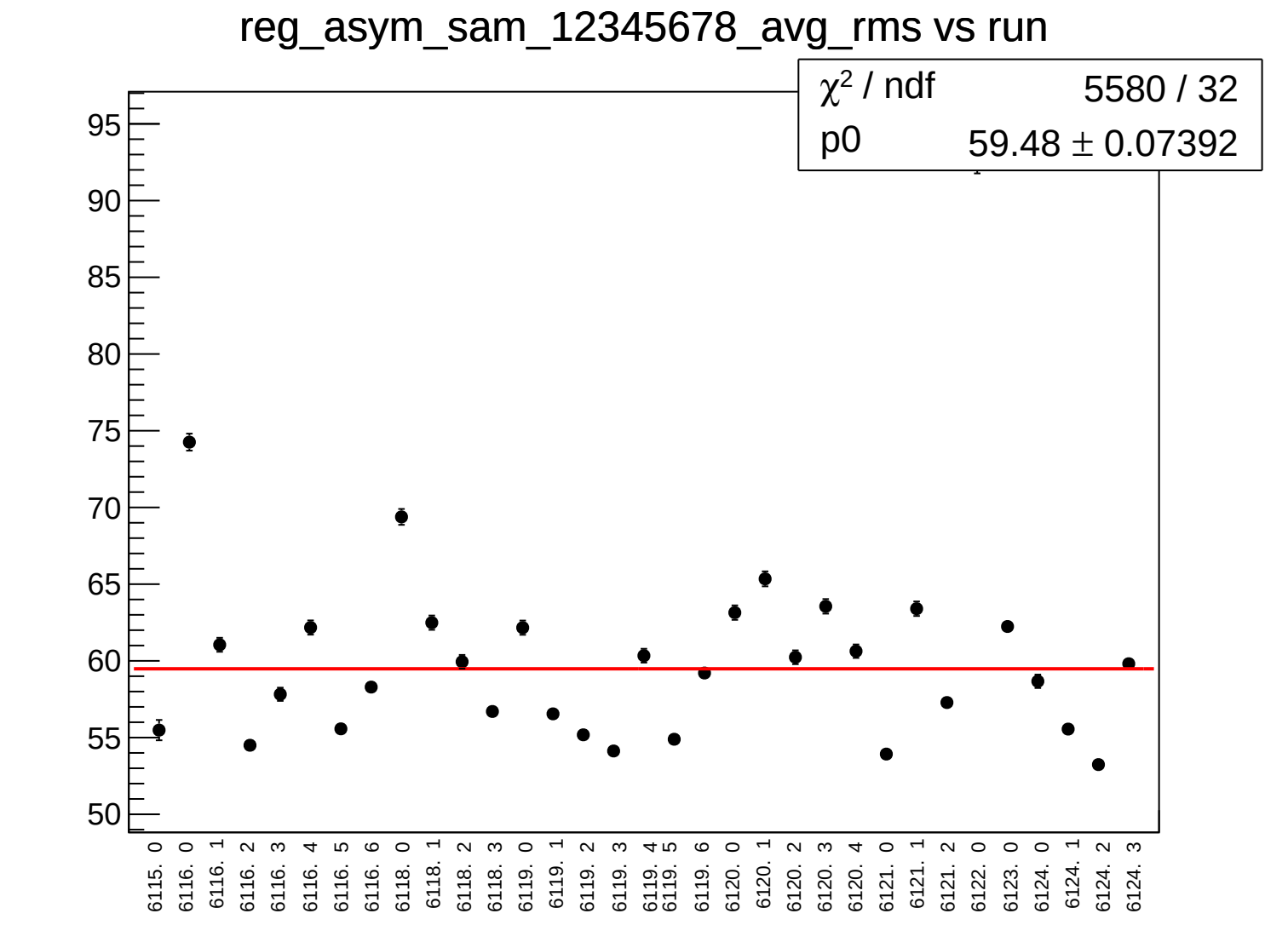

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2884 / 32
p0 360 ± 0.4464
420
400
380
360
340
320
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

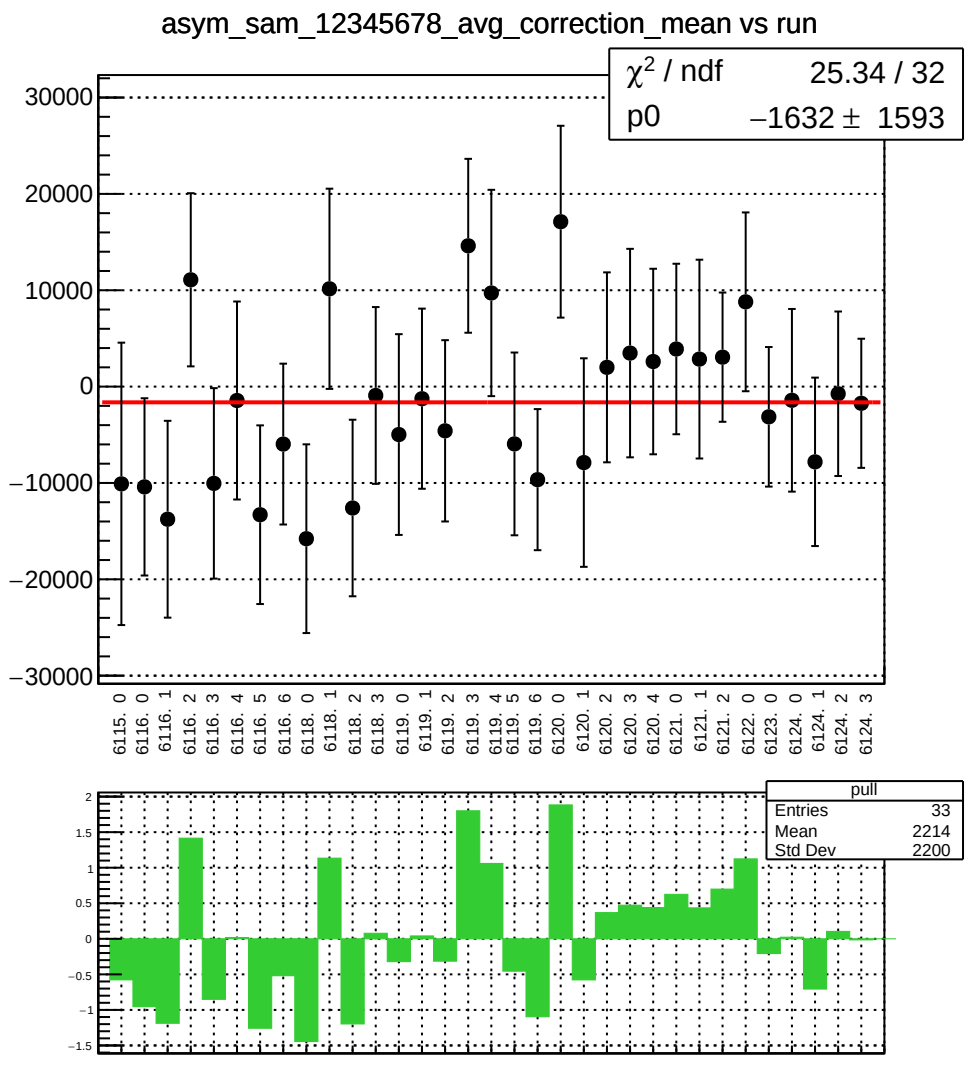

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 25.61 / 32
p0 −758.1± 632.7
10000
5000
0
−5000
−10000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 422.7
Std Dev 409.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006247
Std Dev 0.881
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

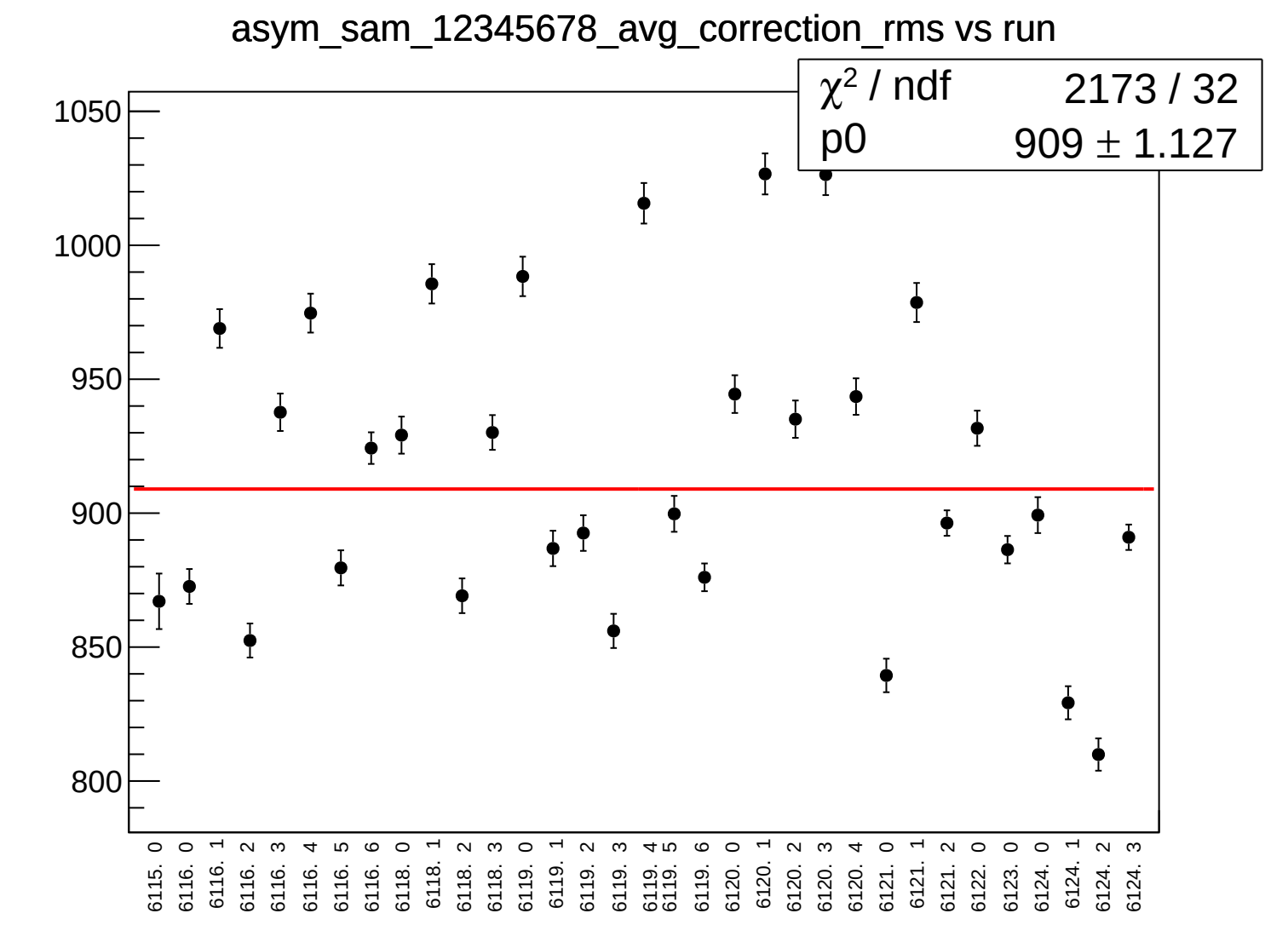

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2874 / 32
p0 360.8 ± 0.4474
420
400
380
360
340
320
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

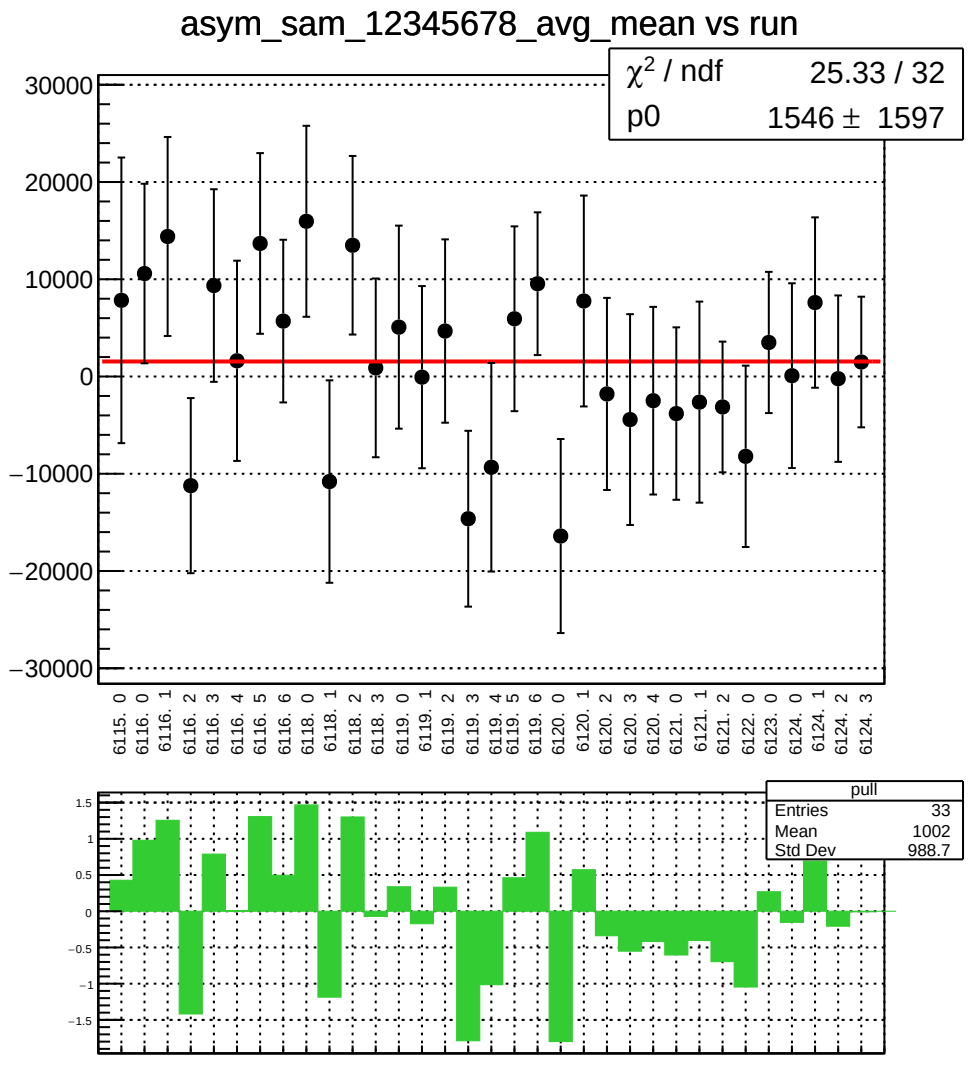

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 28.68 / 32
p0 −109.8 ± 104.5
2000
1000
0
−1000
−2000
−3000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 80.15
Std Dev 23.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2

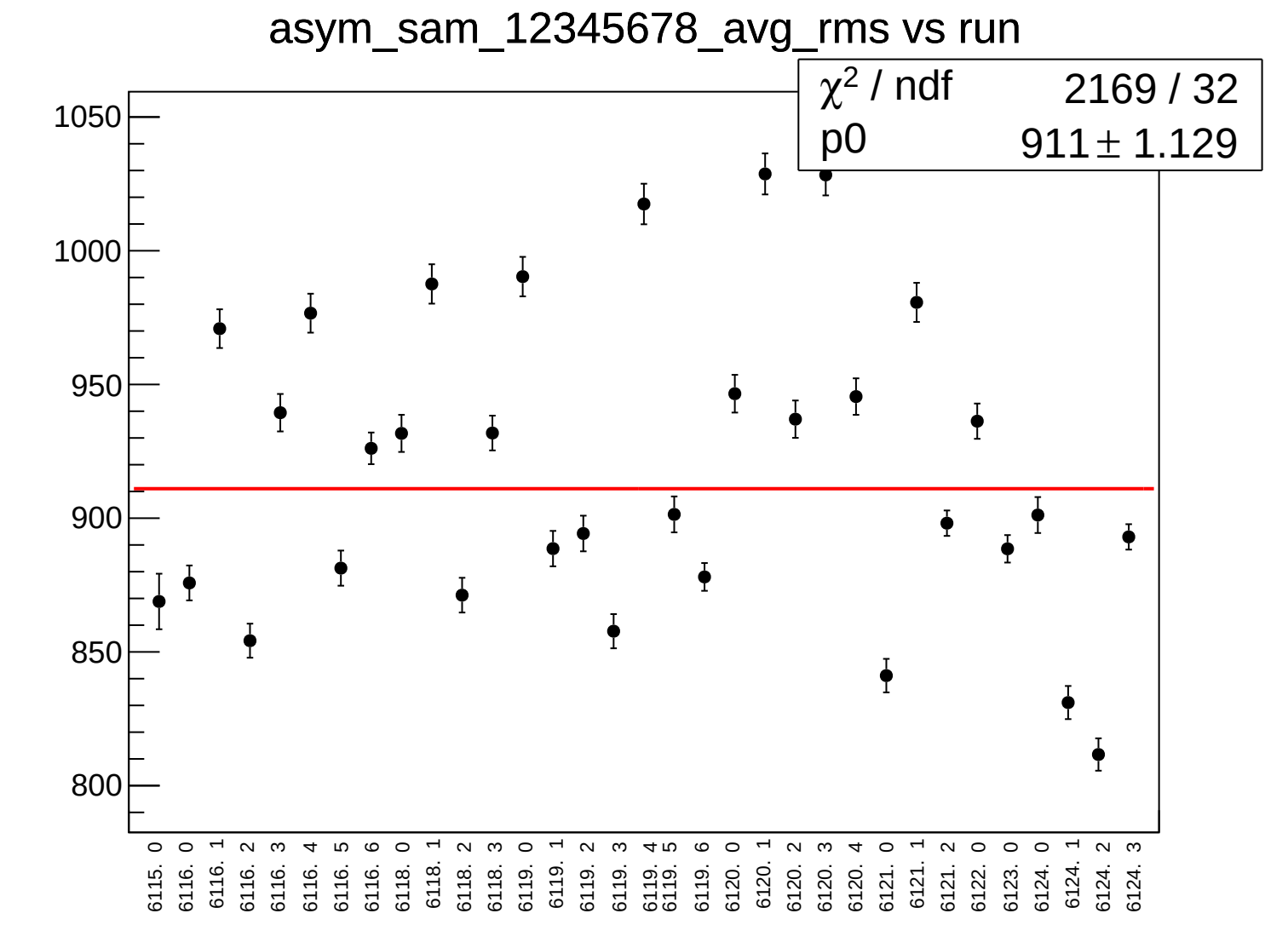

pull1D
Entries 33
Mean −0.006596
Std Dev 0.9322
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

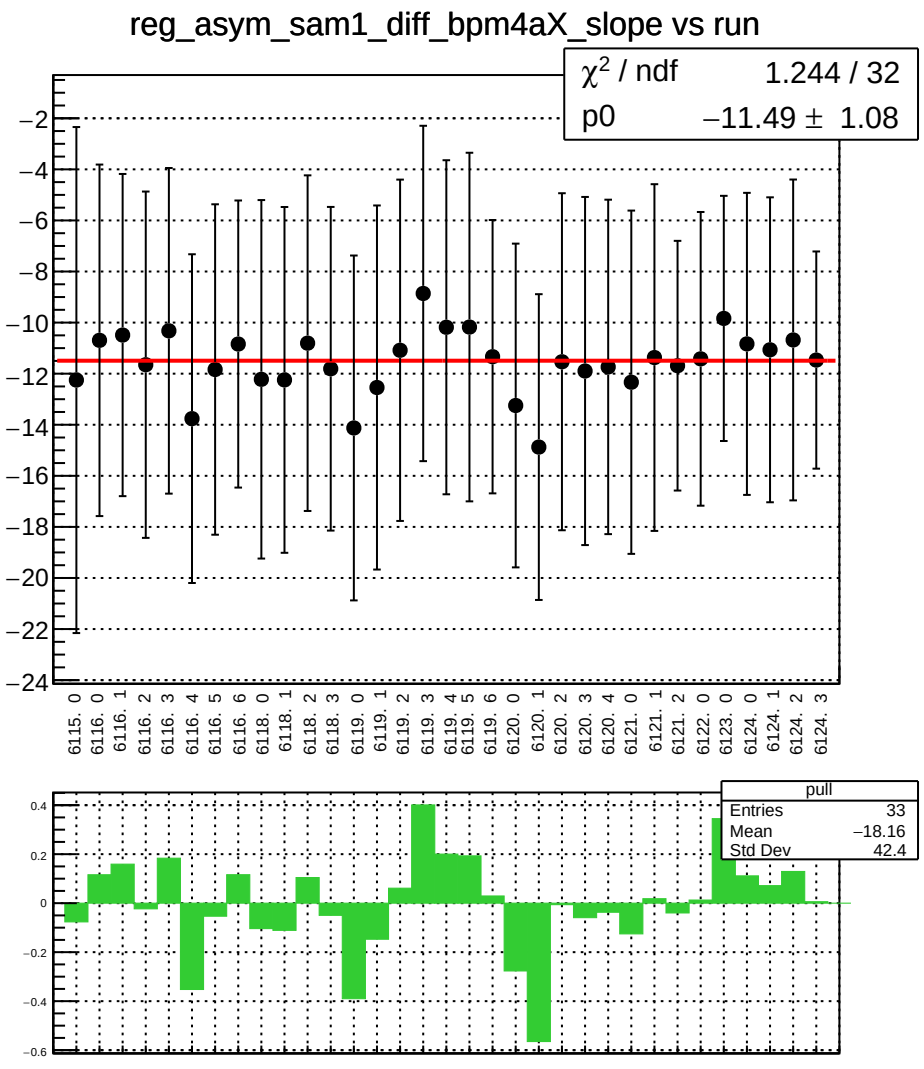

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 5580 / 32
p0 59.48 ± 0.07392
95
90
85
80
75
70
65
60
55
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

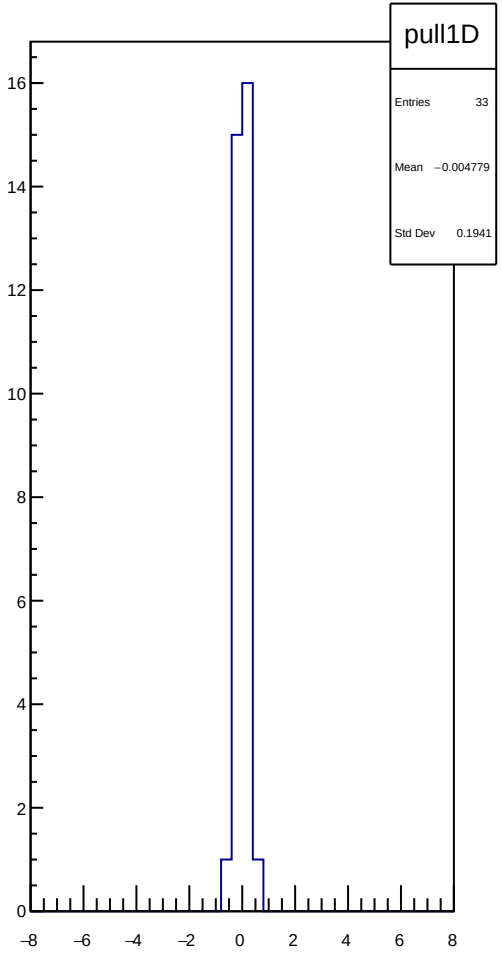

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 25.34 / 32
p0 −1632 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 2214
Std Dev 2200
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.001178
Std Dev 0.8763
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

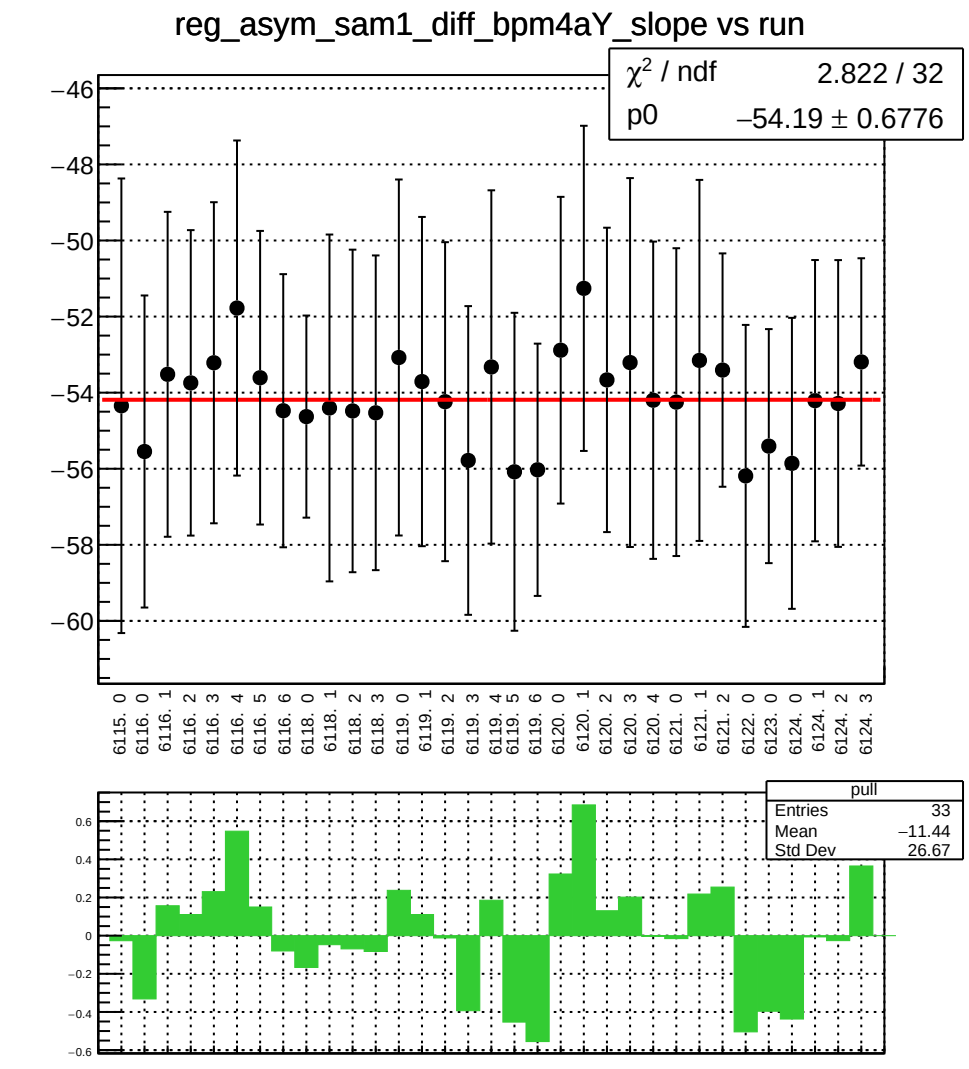

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2173 / 32
p0 909 ± 1.127
1050
1000
950
900
850
800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

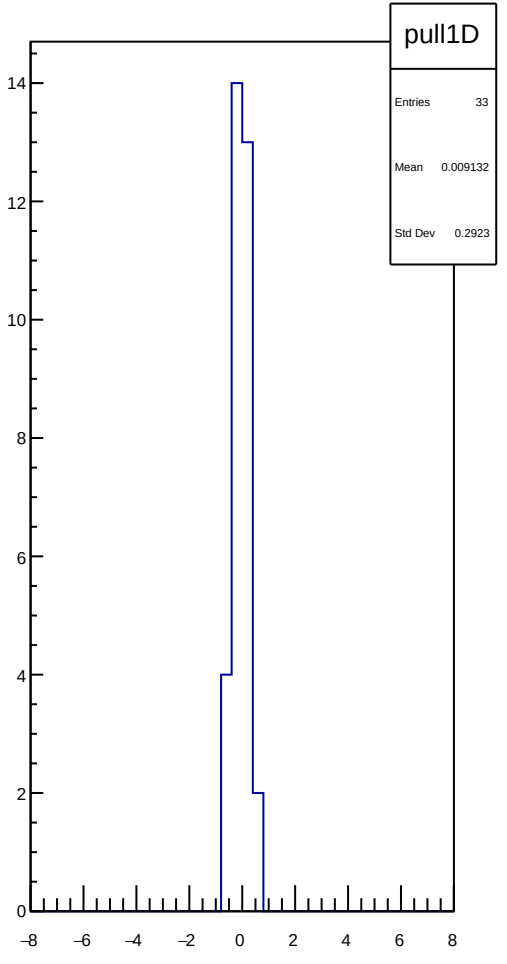

asym_sam_12345678_avg_mean vs run
χ² / ndf 25.33 / 32
p0 1546 ± 1597
30000
20000
10000
0
−10000
−20000
−30000
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1002
Std Dev 988.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.002643
Std Dev 0.8761
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

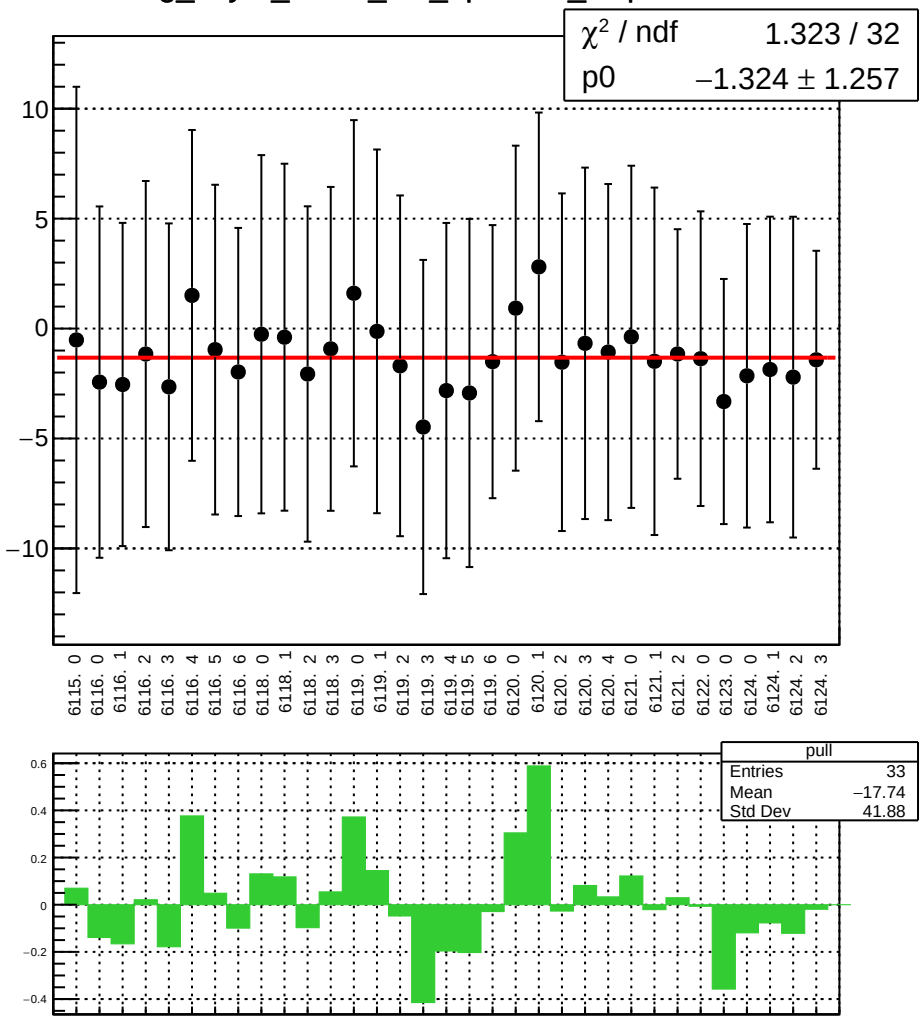

asym_sam_12345678_avg_rms vs run
χ² / ndf 2169 / 32
p0 911 ± 1.129
1050
1000
950
900
850
800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

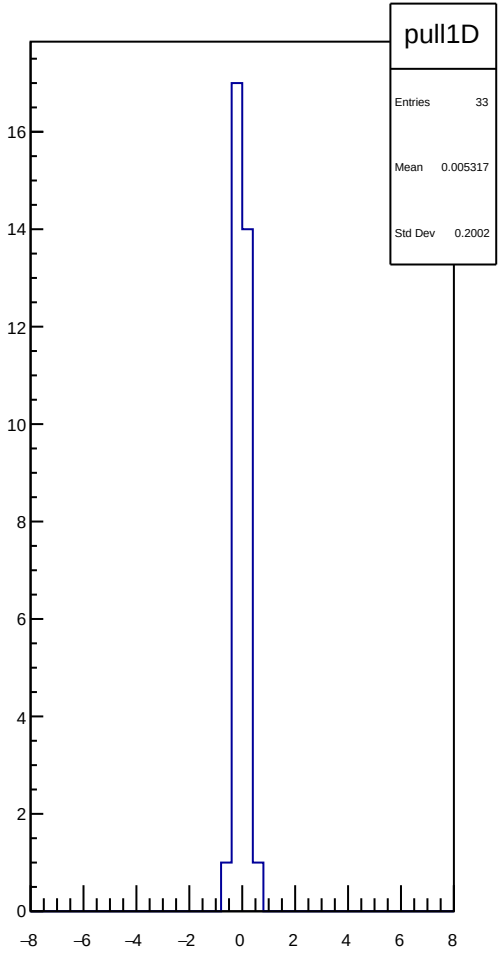

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 1.244 / 32
p0 −11.49 ± 1.08
pull
Entries 33
Mean −18.16
Std Dev 42.4

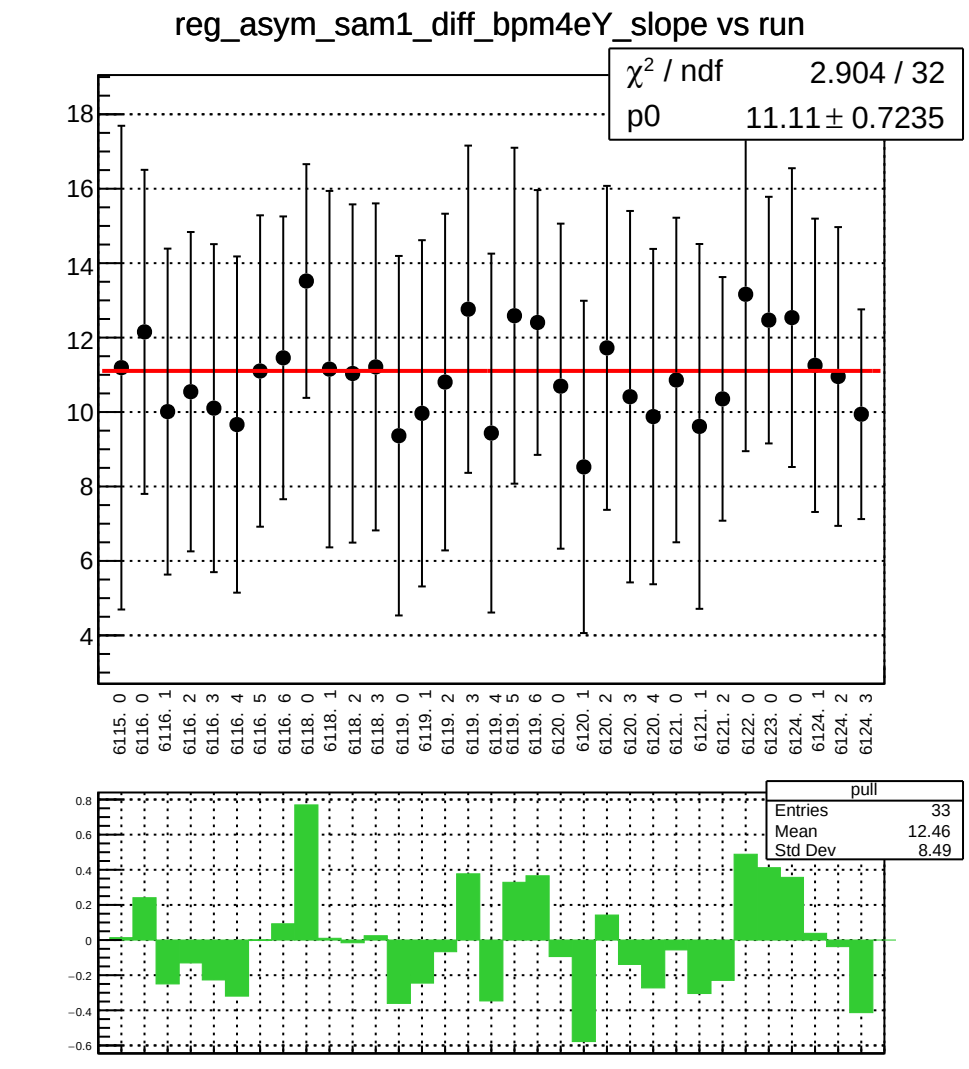

pull1D
Entries 33
Mean −0.004779
Std Dev 0.1941

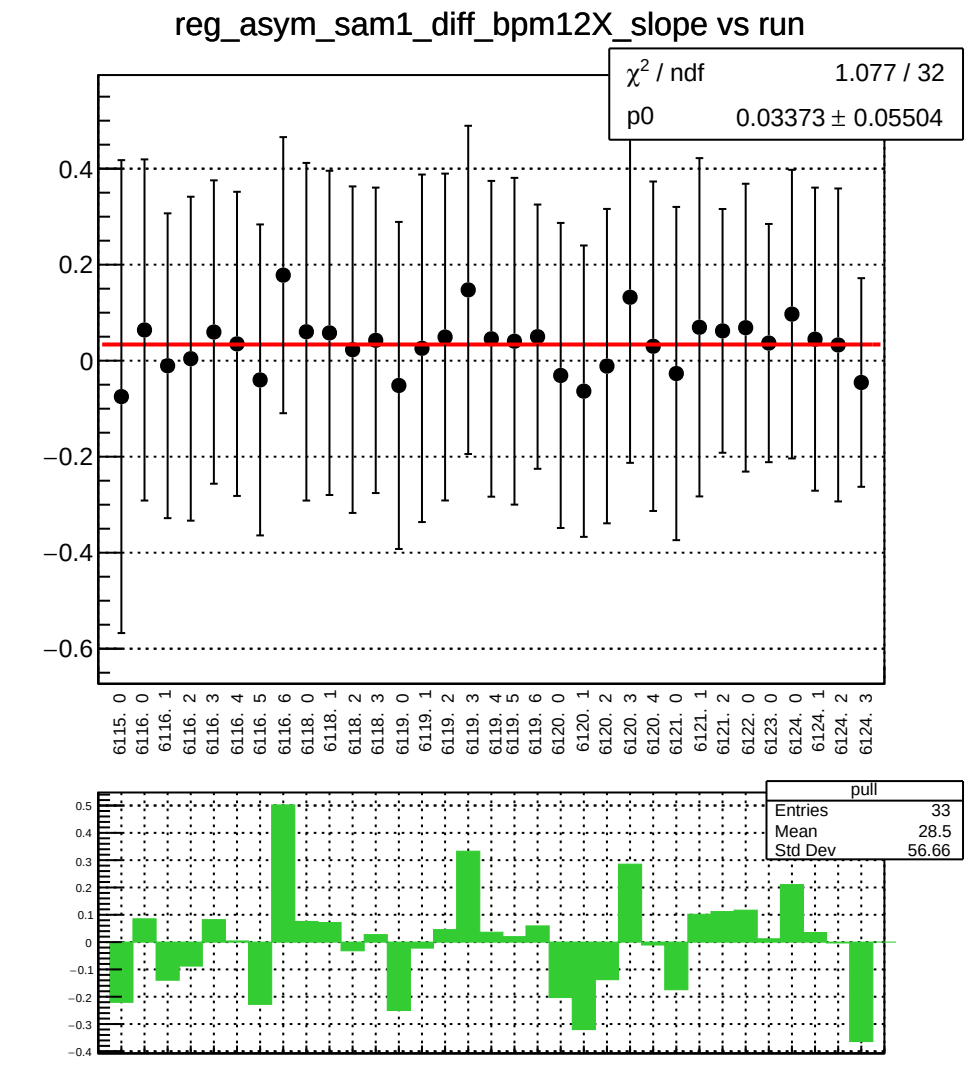

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 2.822 / 32
p0 −54.19 ± 0.6776
−46
−48
−50
−52
−54
−56
−58
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −11.44
Std Dev 26.67
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

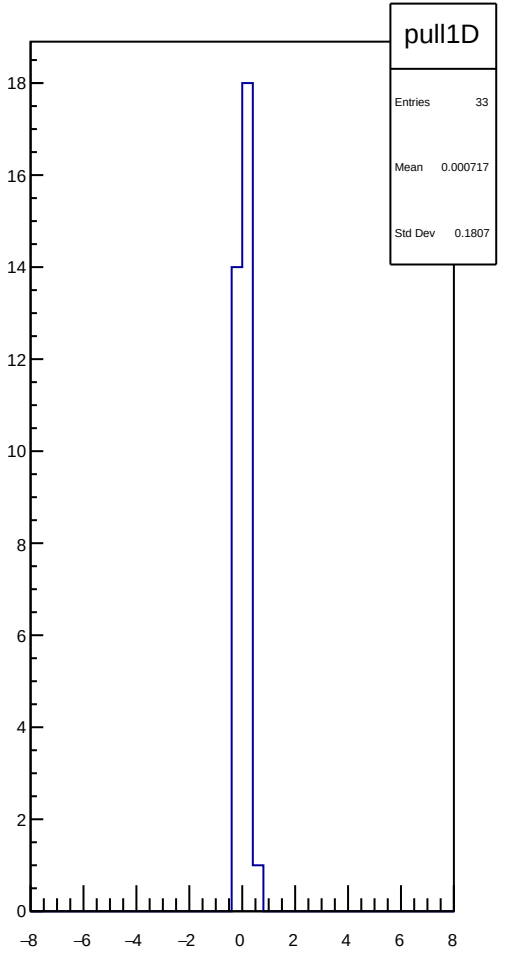

pull1D
Entries 33
Mean 0.009132
Std Dev 0.2923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

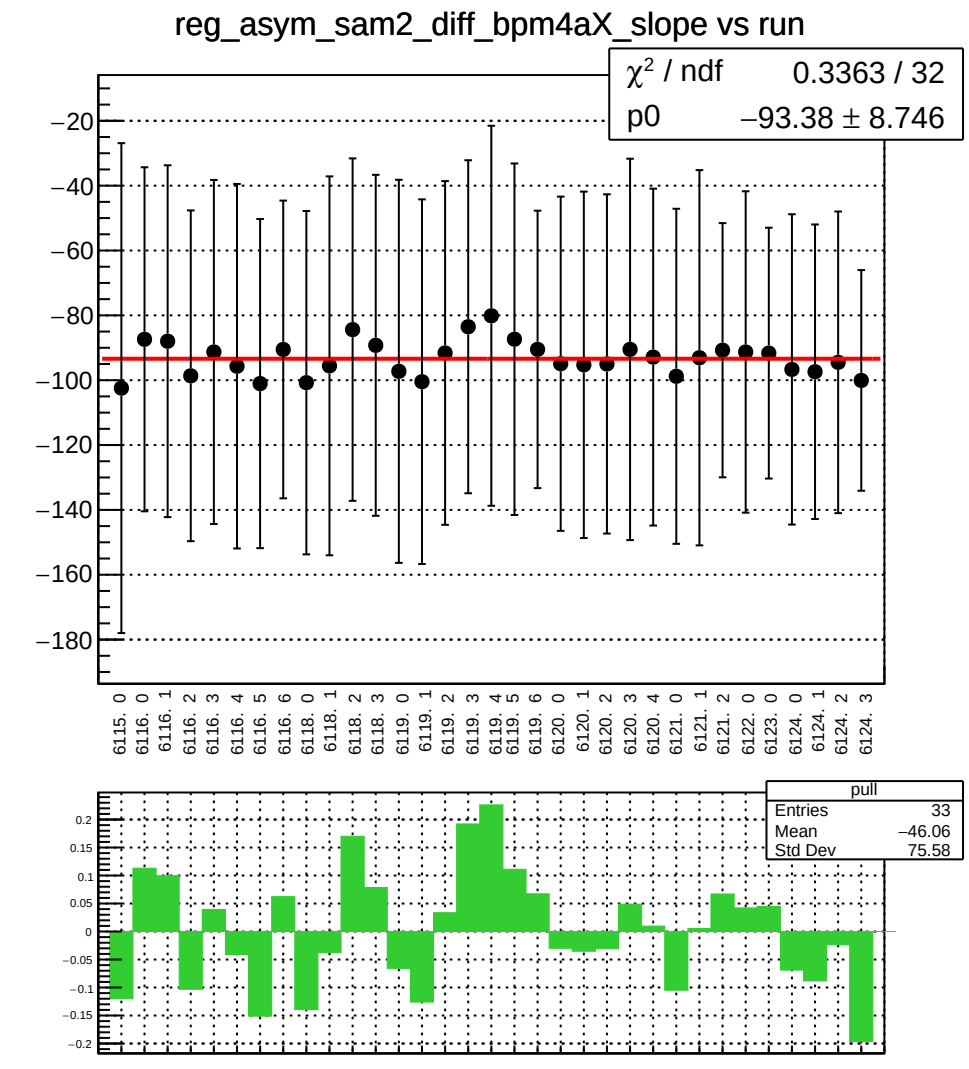

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1.323 / 32
p0 −1.324 ± 1.257
10
5
0
−5
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −17.74
Std Dev 41.88
0.6
0.4
0.2
0
−0.2
−0.4

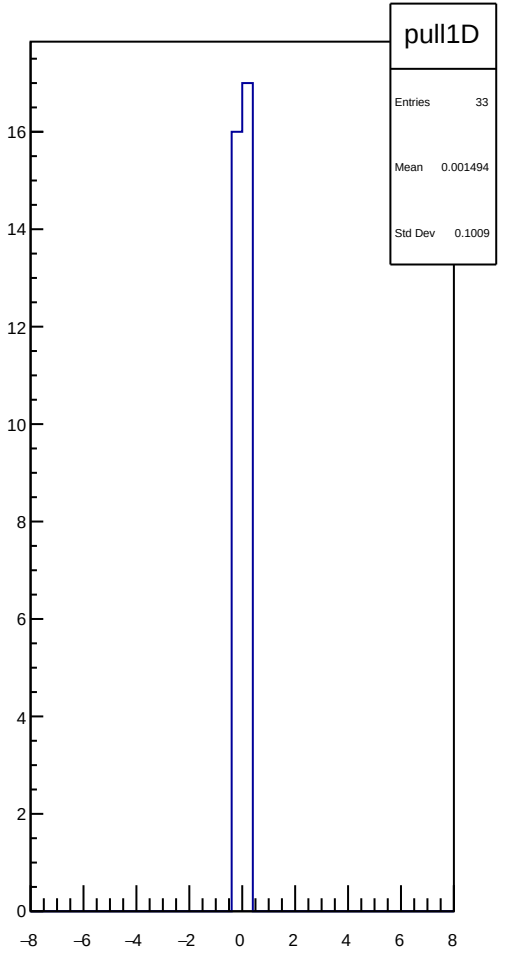

pull1D
Entries 33
Mean 0.005317
Std Dev 0.2002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

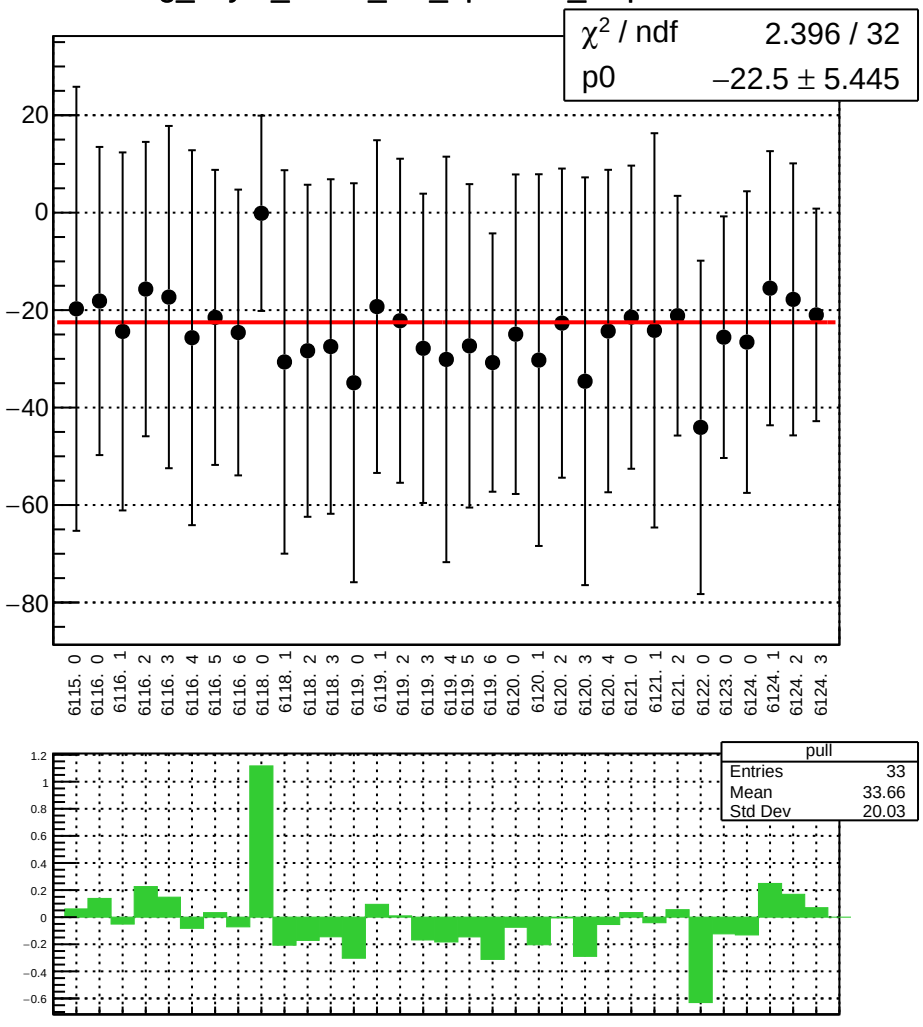

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 2.904 / 32
p0 11.11 ± 0.7235
18
16
14
12
10
8
6
4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 12.46
Std Dev 8.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean −0.01286
Std Dev 0.2964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

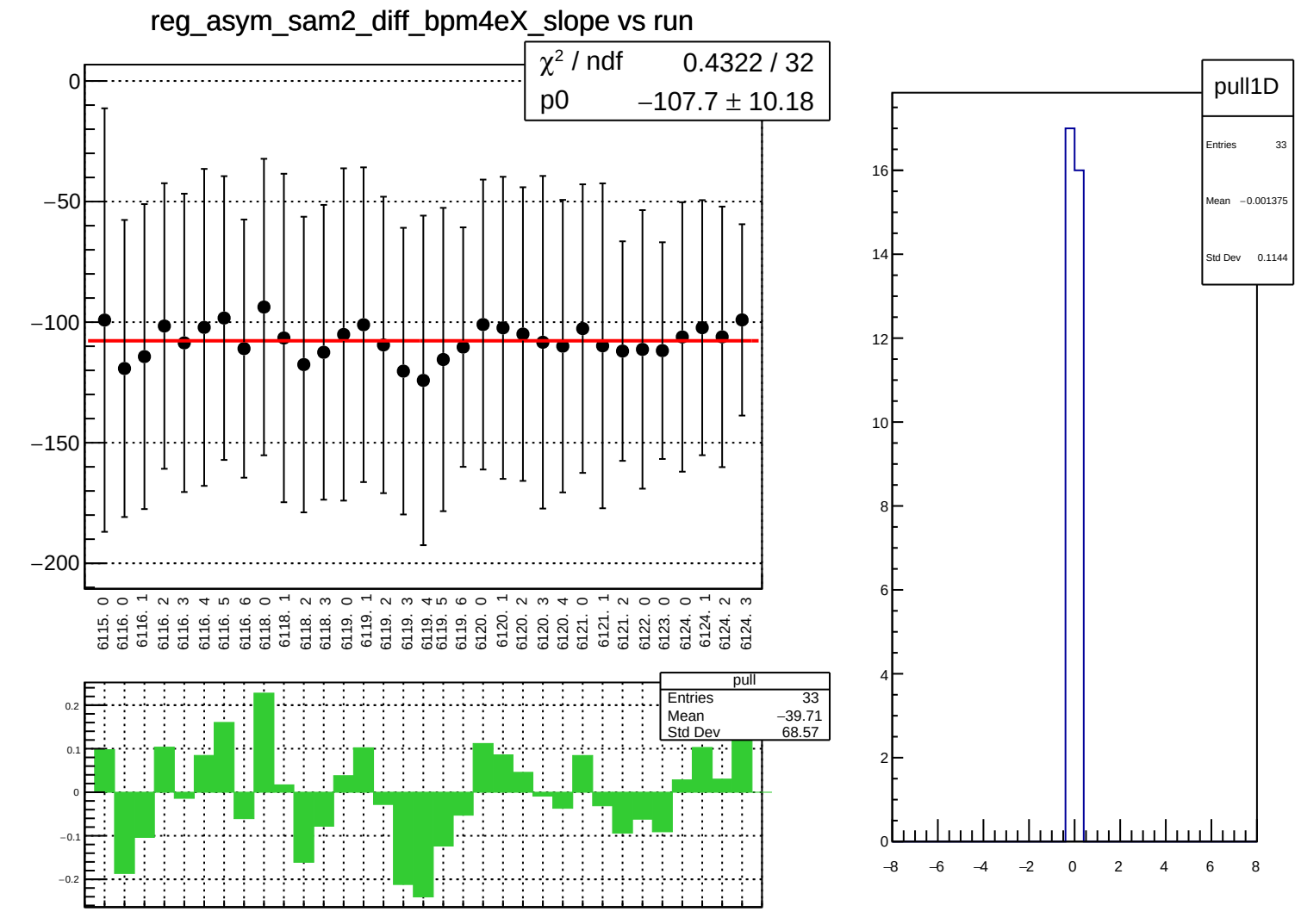

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 1.077 / 32
p0 0.03373 ± 0.05504
0.4
0.2
0
−0.2
−0.4
−0.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 28.5
Std Dev 56.66
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

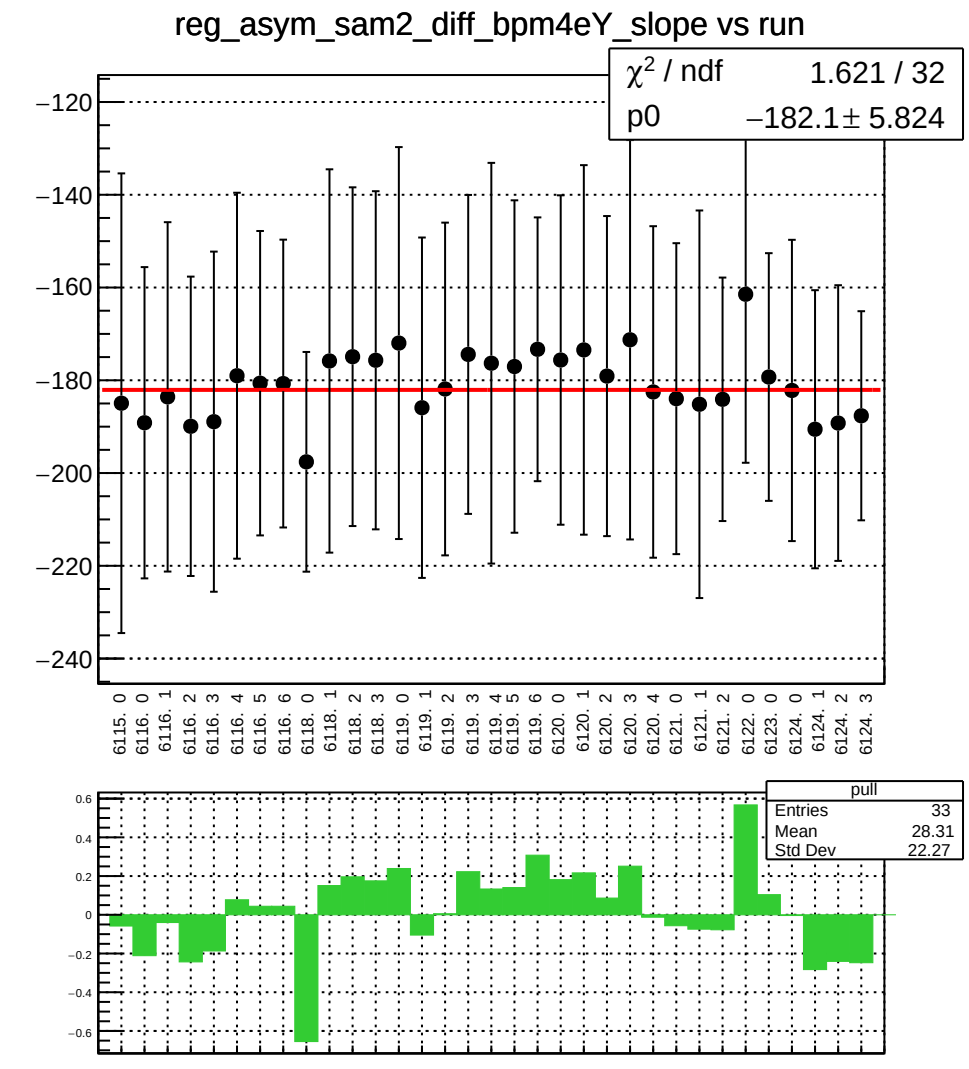

pull1D
Entries 33
Mean 0.000717
Std Dev 0.1807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

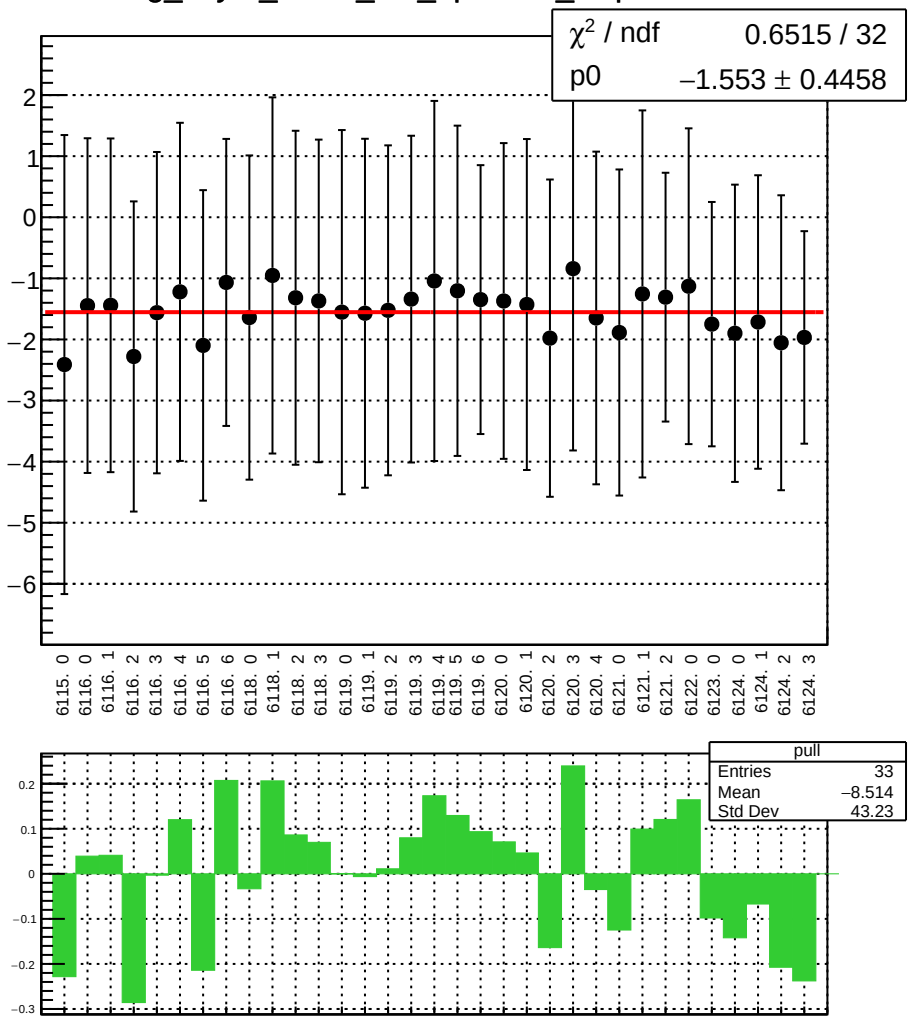

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 0.3363 / 32
p0 −93.38 ± 8.746
−20
−40
−60
−80
−100
−120
−140
−160
−180
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −46.06
Std Dev 75.58
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

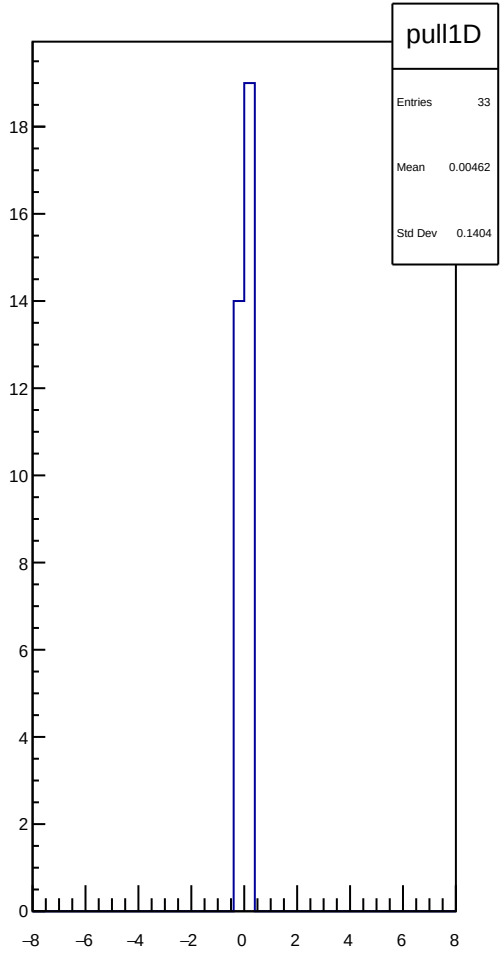

pull1D
Entries 33
Mean 0.001494
Std Dev 0.1009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

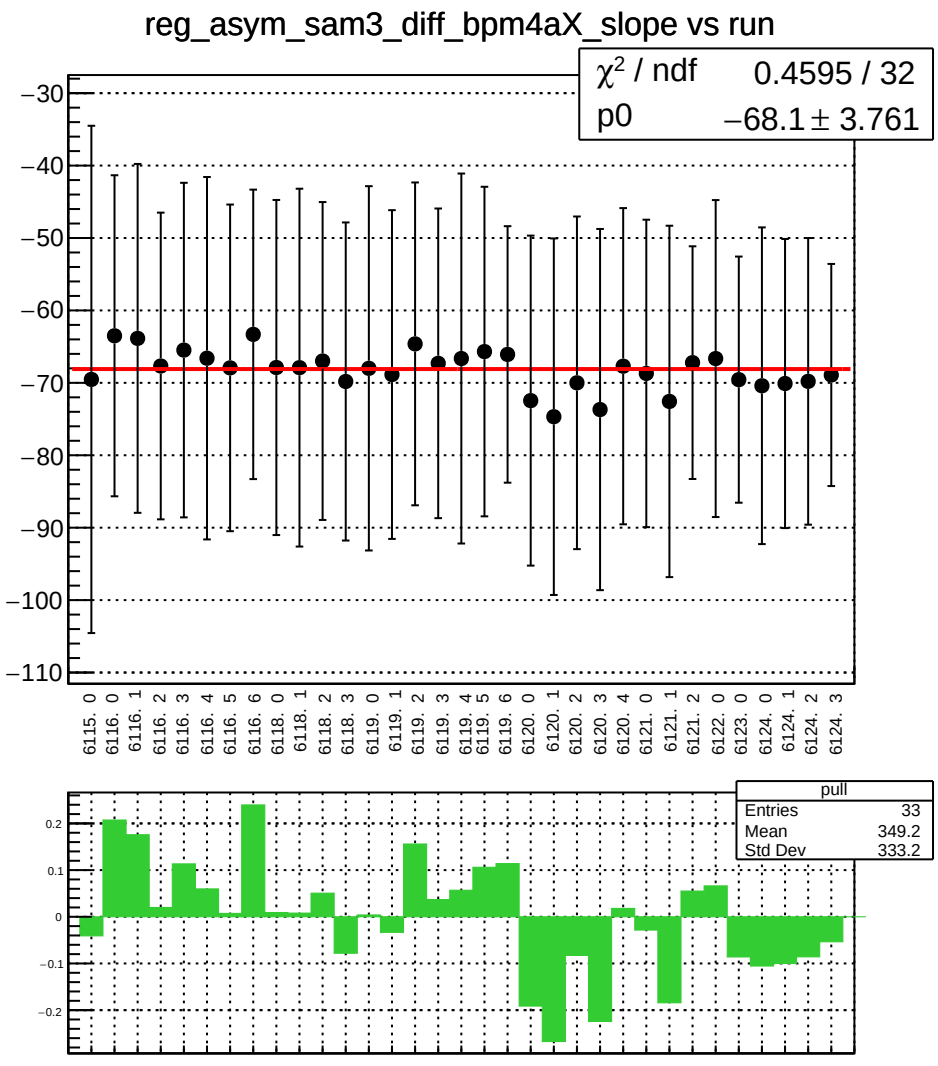

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.396 / 32
p0 −22.5 ± 5.445
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 33.66
Std Dev 20.03
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean −0.02995
Std Dev 0.2678
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

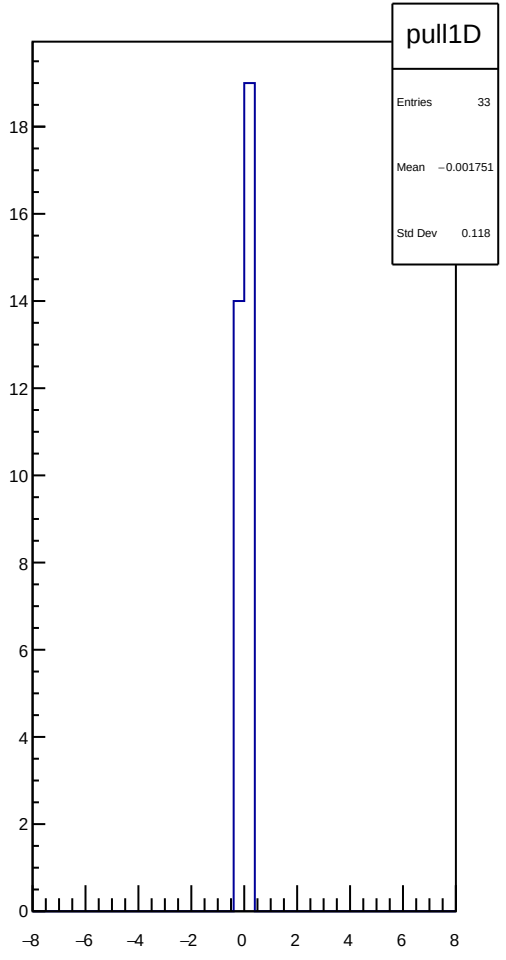

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.4322 / 32
p0 −107.7 ± 10.18
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −39.71
Std Dev 68.57
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean −0.001375
Std Dev 0.1144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

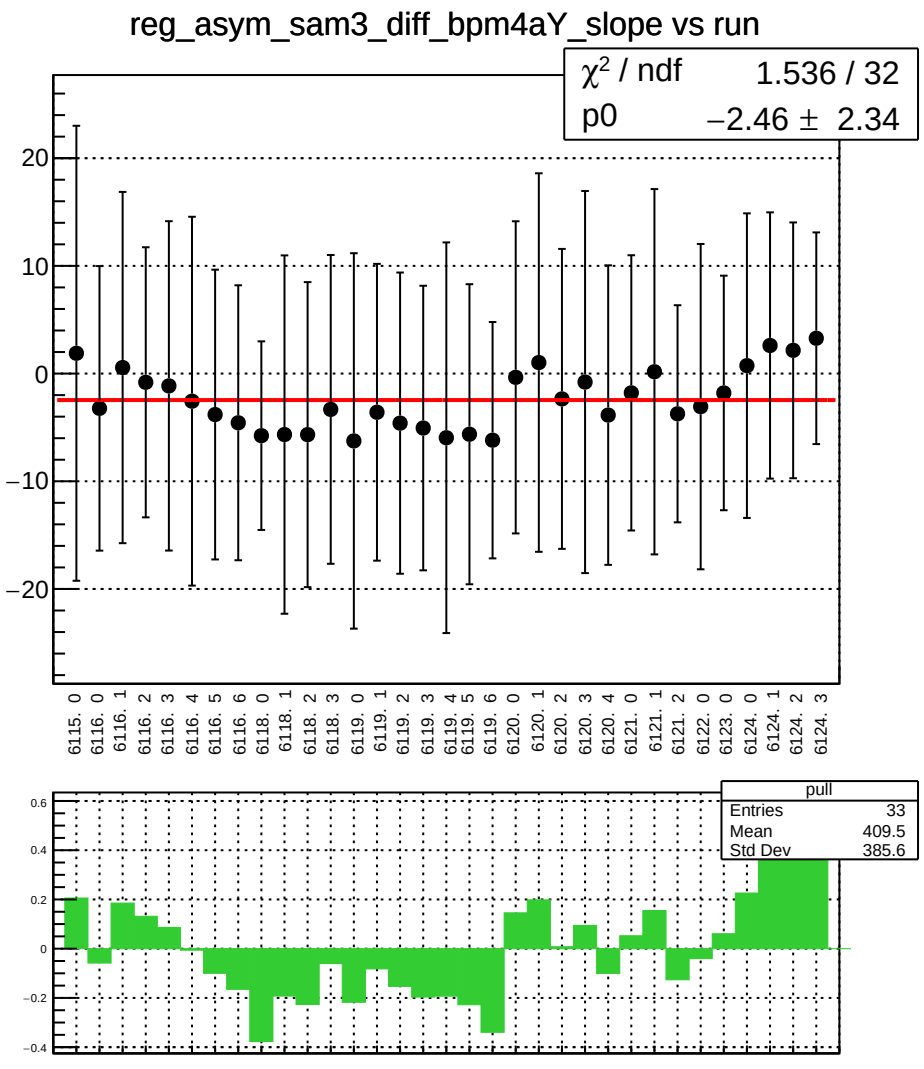

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.621 / 32
p0 −182.1± 5.824
−120
−140
−160
−180
−200
−220
−240
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 28.31
Std Dev 22.27
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean 0.01965
Std Dev 0.2208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

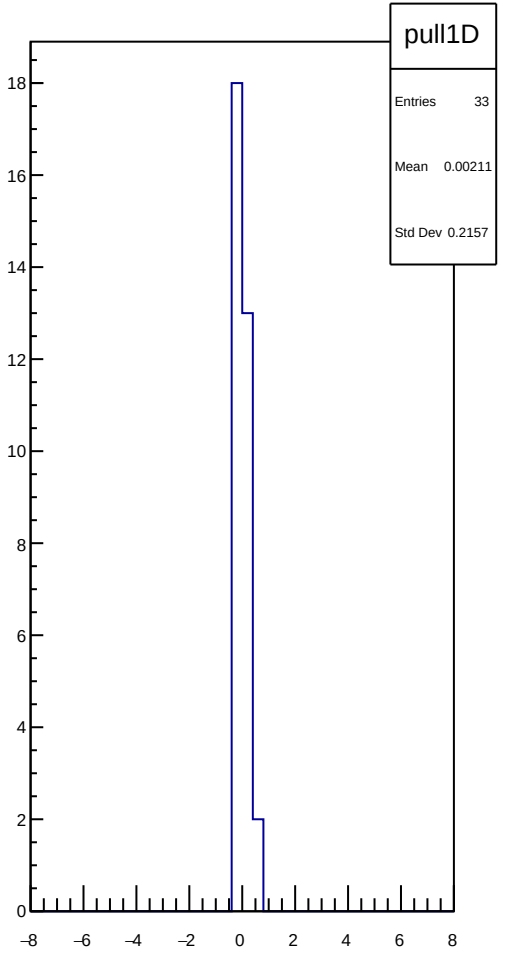

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.6515 / 32
p0 −1.553 ± 0.4458
pull
Entries 33
Mean −8.514
Std Dev 43.23
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

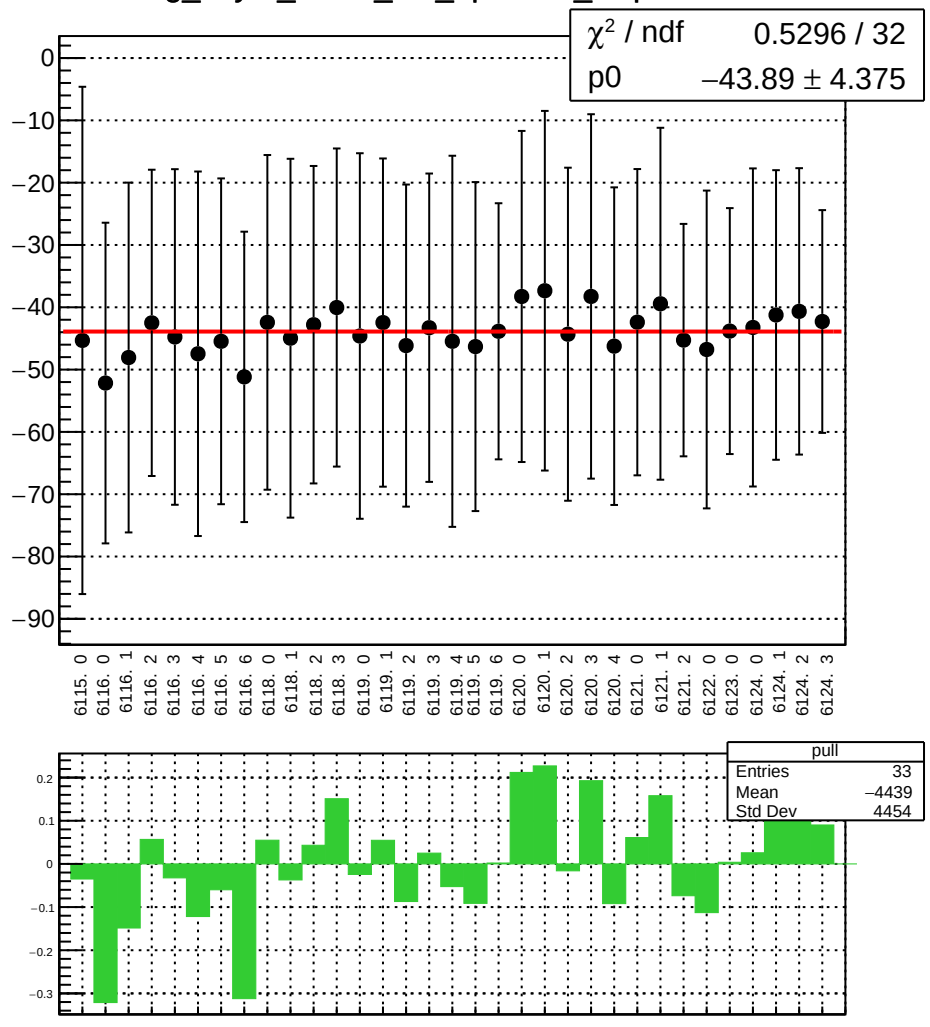

pull1D
Entries 33
Mean 0.00462
Std Dev 0.1404

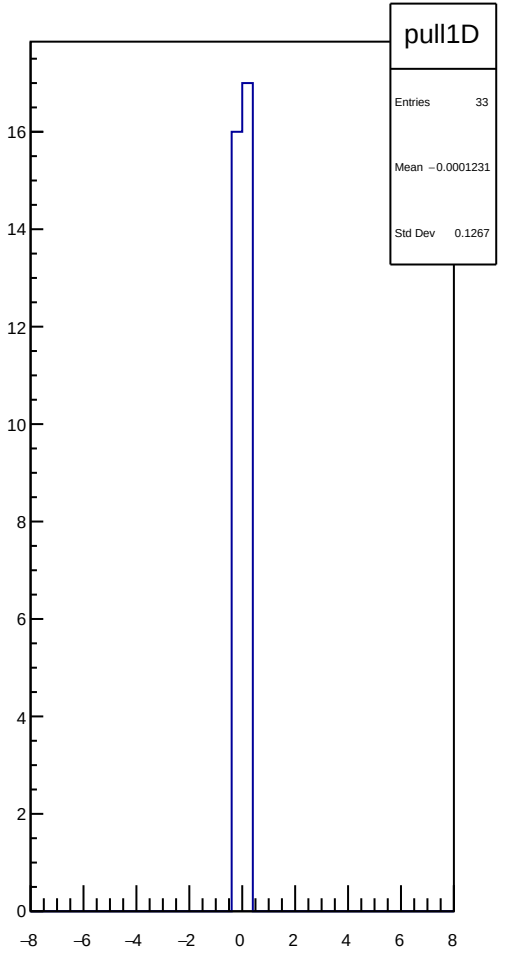

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.4595 / 32
p0 −68.1 ± 3.761
−30
−40
−50
−60
−70
−80
−90
−100
−110
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 349.2
Std Dev 333.2
0.2
0.1
0
−0.1
−0.2

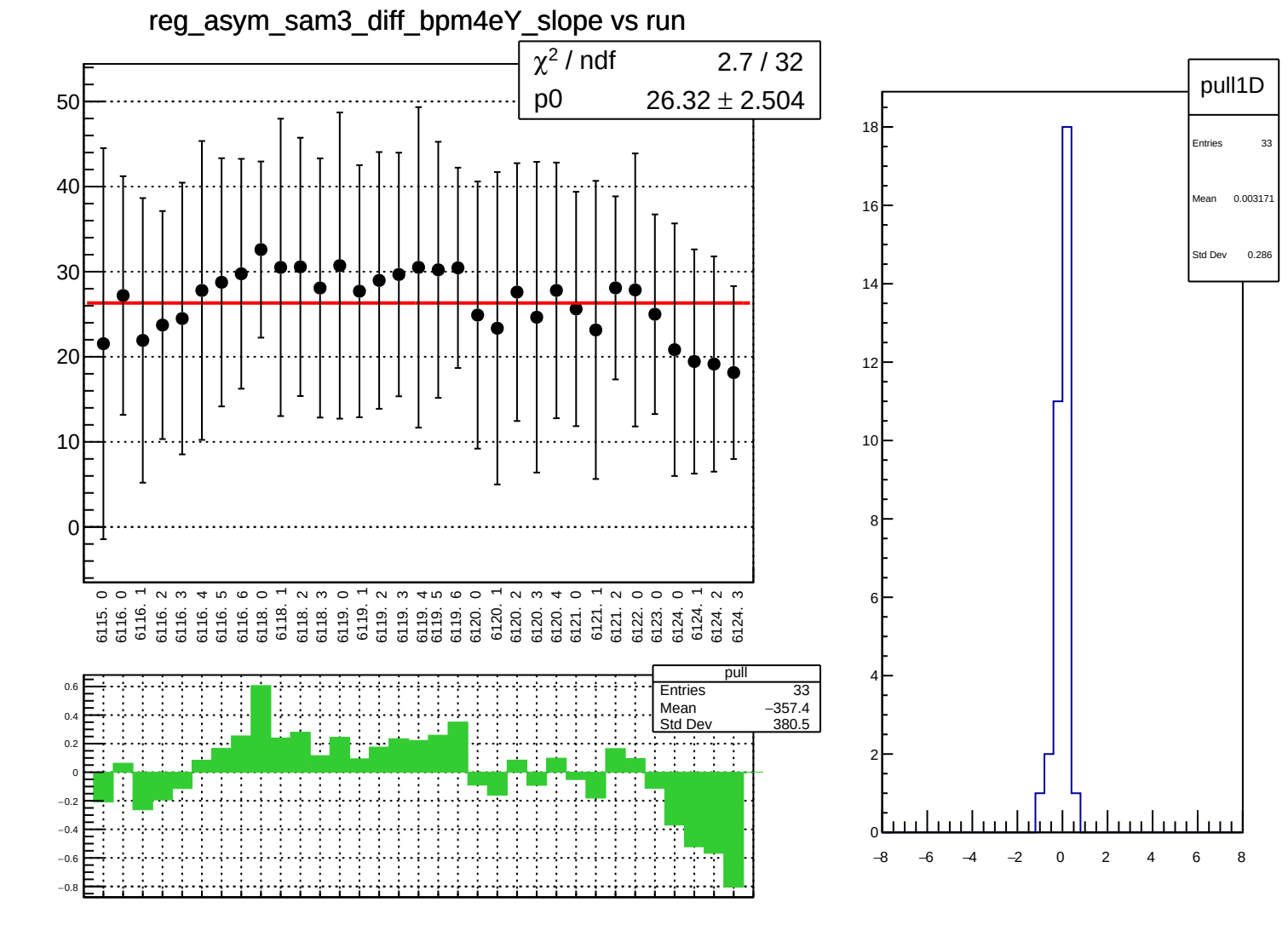

pull1D
Entries 33
Mean −0.001751
Std Dev 0.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

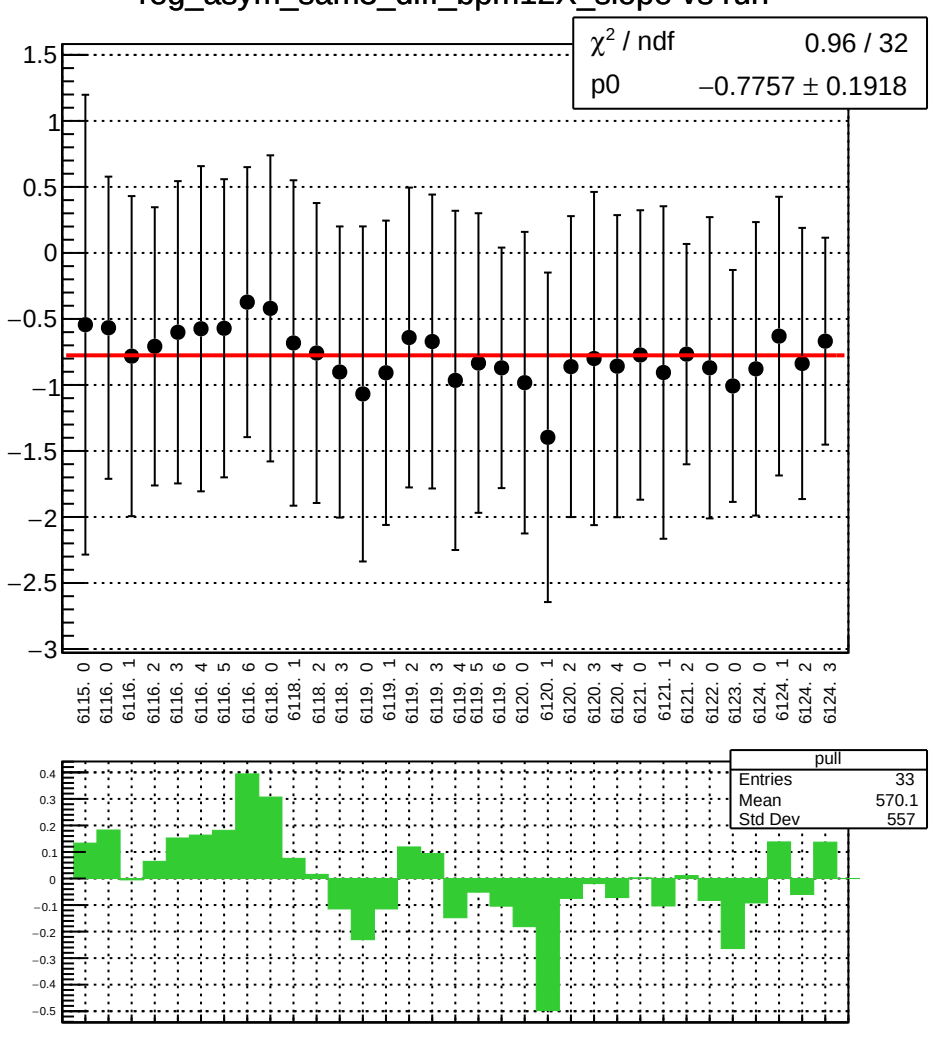

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.536 / 32
p0 −2.46 ± 2.34
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 409.5
Std Dev 385.6
0.6
0.4
0.2
0
−0.2
−0.4

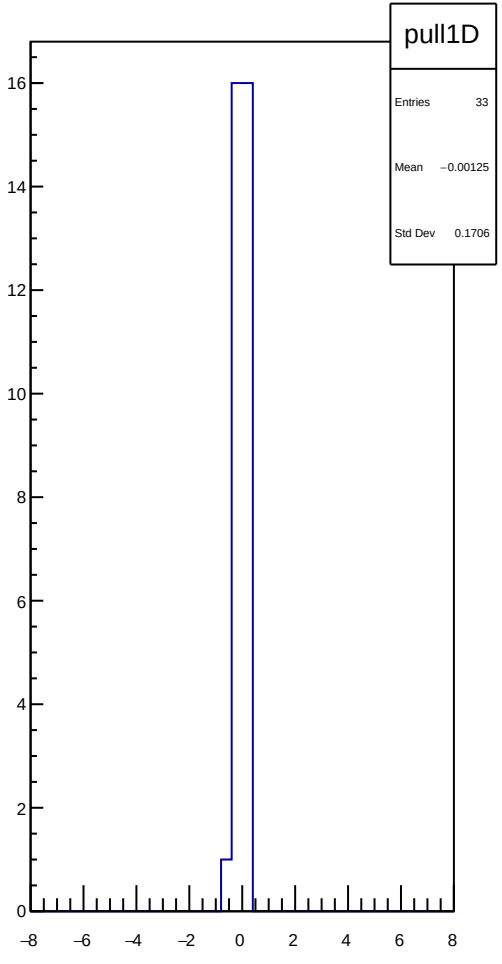

pull1D
Entries 33
Mean 0.00211
Std Dev 0.2157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

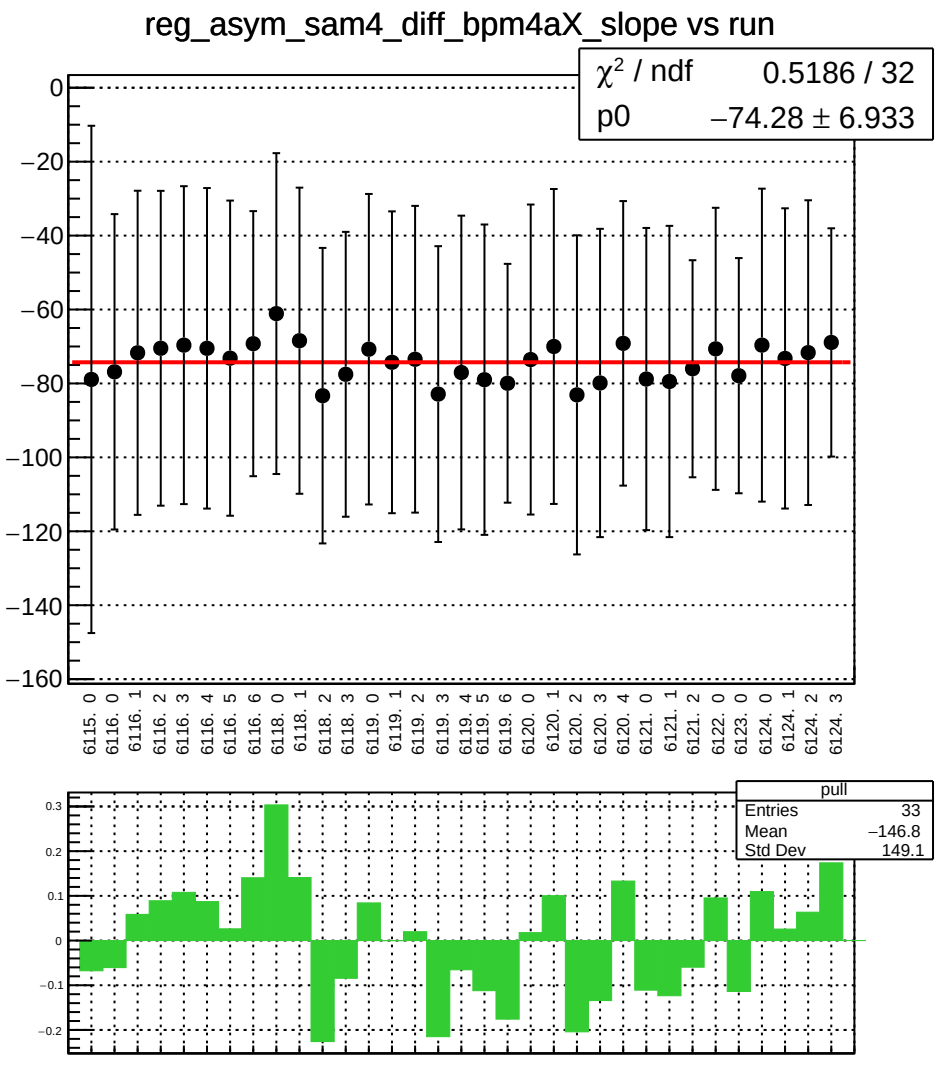

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 0.5296 / 32
p0 −43.89 ± 4.375
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −4439
Std Dev 4454
0.2
0.1
0
−0.1
−0.2
−0.3

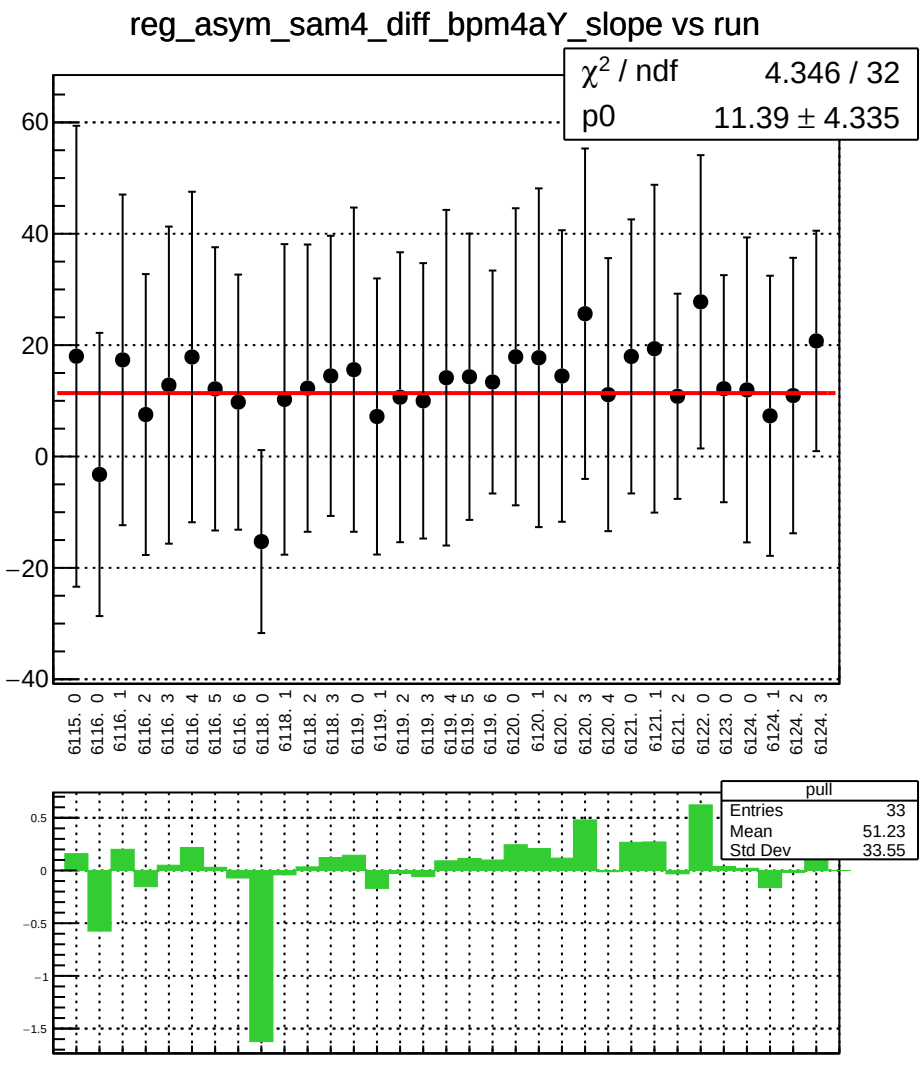

pull1D
Entries 33
Mean −0.0001231
Std Dev 0.1267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

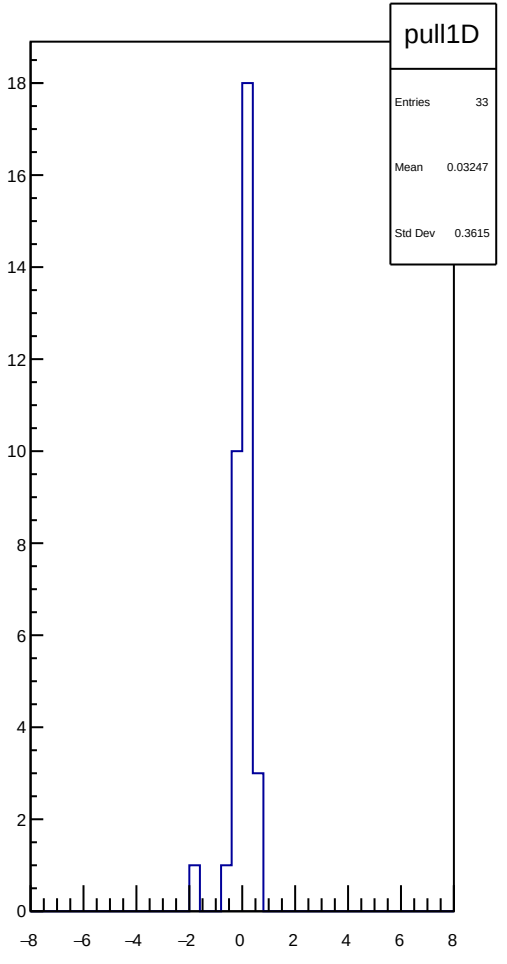

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.7 / 32
p0 26.32 ± 2.504
50
40
30
20
10
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −357.4
Std Dev 380.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.003171
Std Dev 0.286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

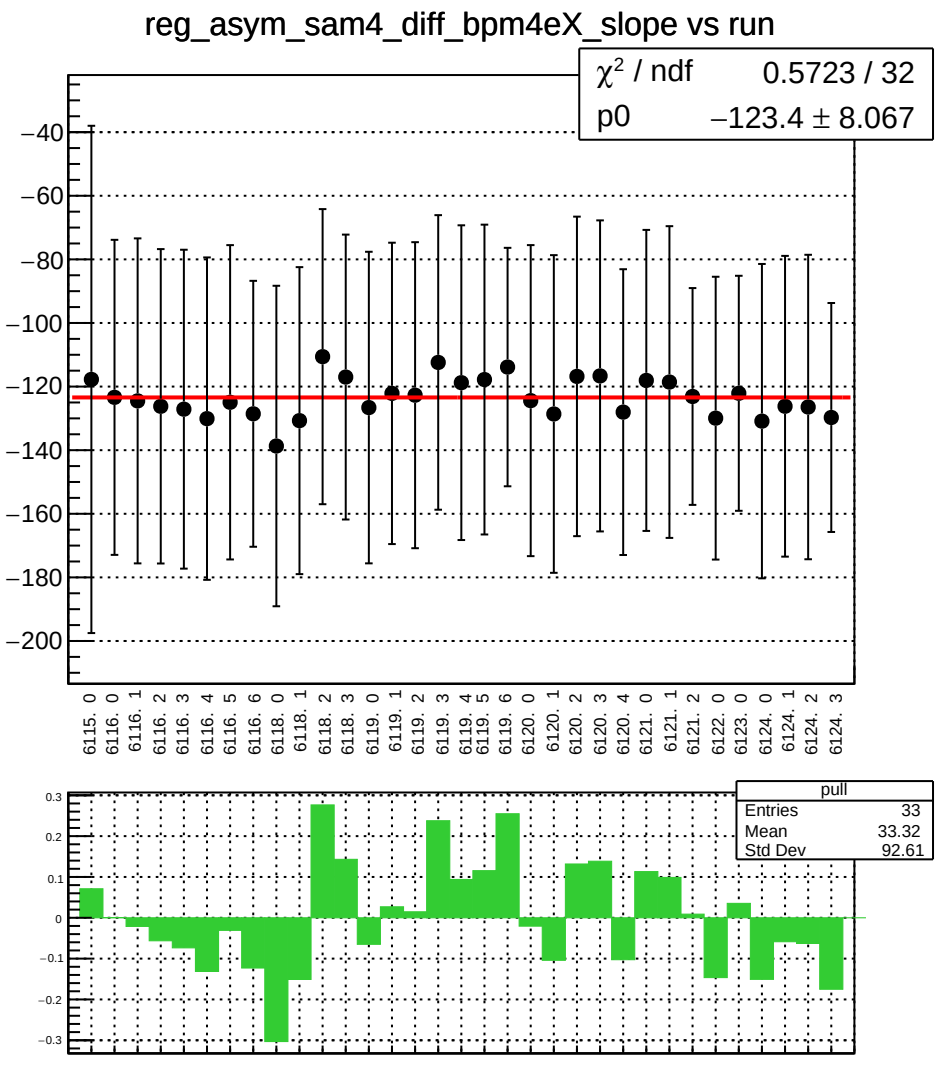

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.96 / 32
p0 −0.7757 ± 0.1918
pull
Entries 33
Mean 570.1
Std Dev 557

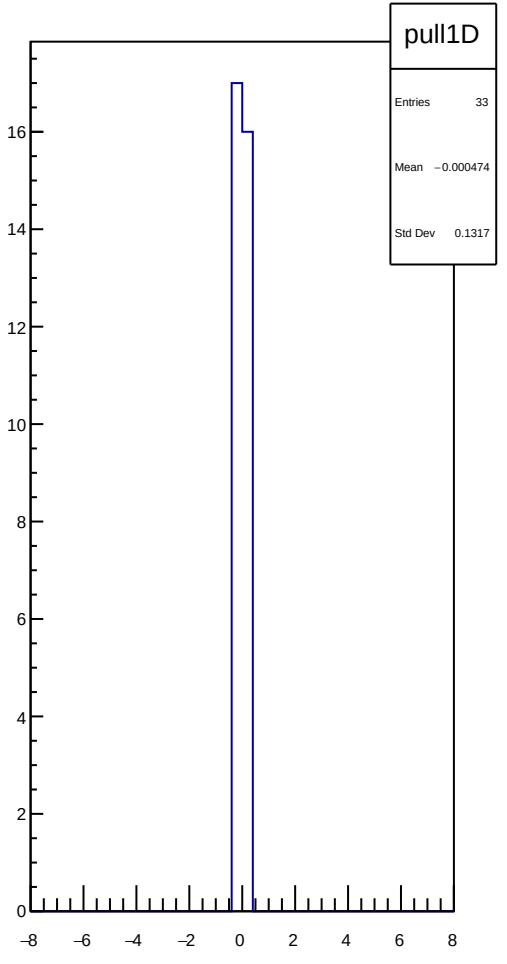

pull1D
Entries 33
Mean −0.00125
Std Dev 0.1706

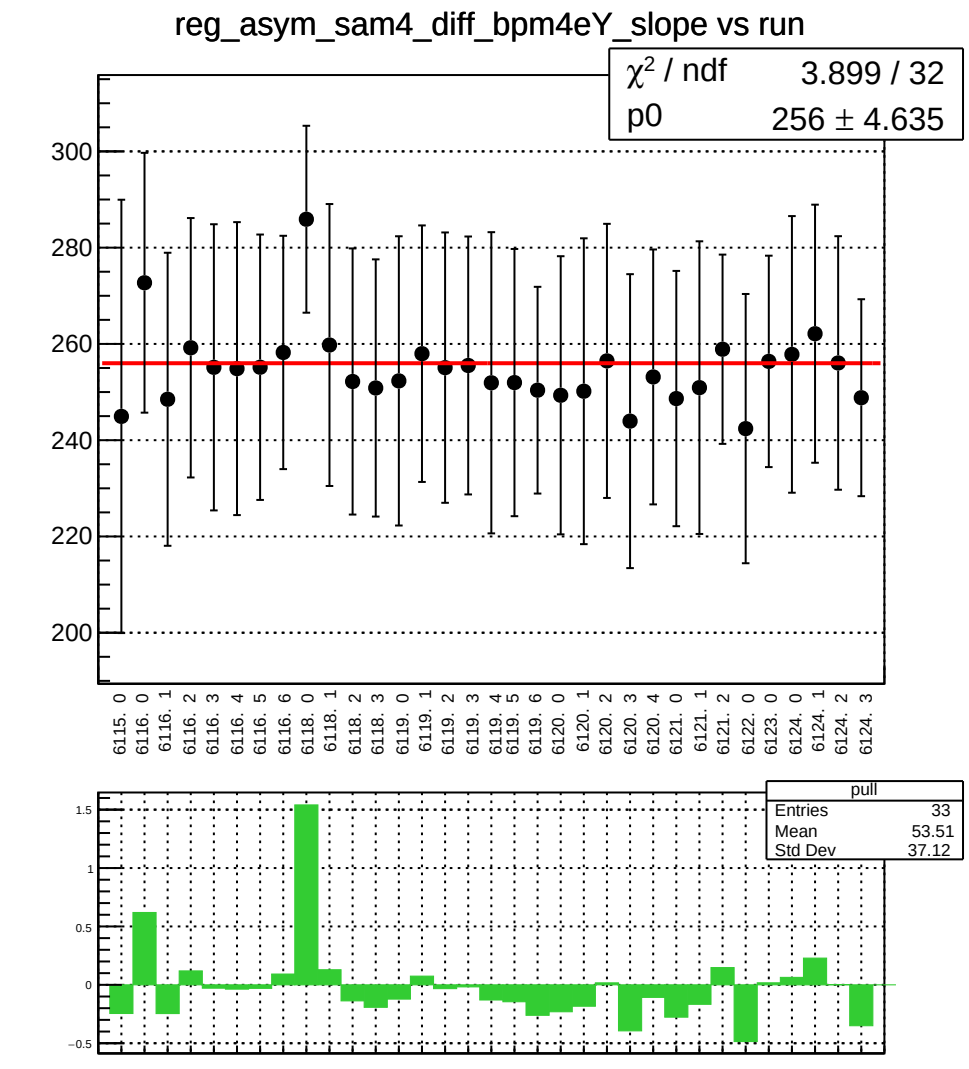

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 0.5186 / 32
p0 −74.28 ± 6.933
0
−20
−40
−60
−80
−100
−120
−140
−160
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −146.8
Std Dev 149.1
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean 0.0007171
Std Dev 0.1254
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

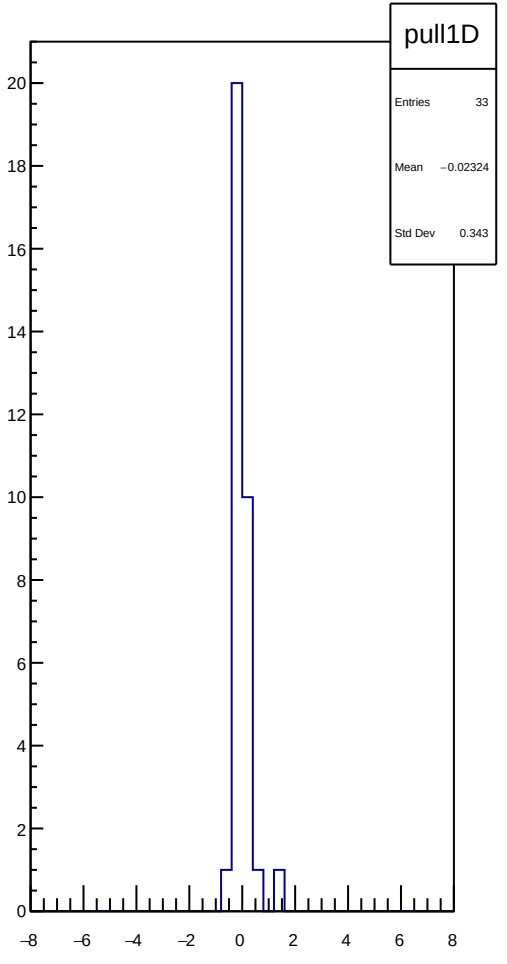

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.346 / 32
p0 11.39 ± 4.335
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.23
Std Dev 33.55
0.5
0
−0.5
−1
−1.5

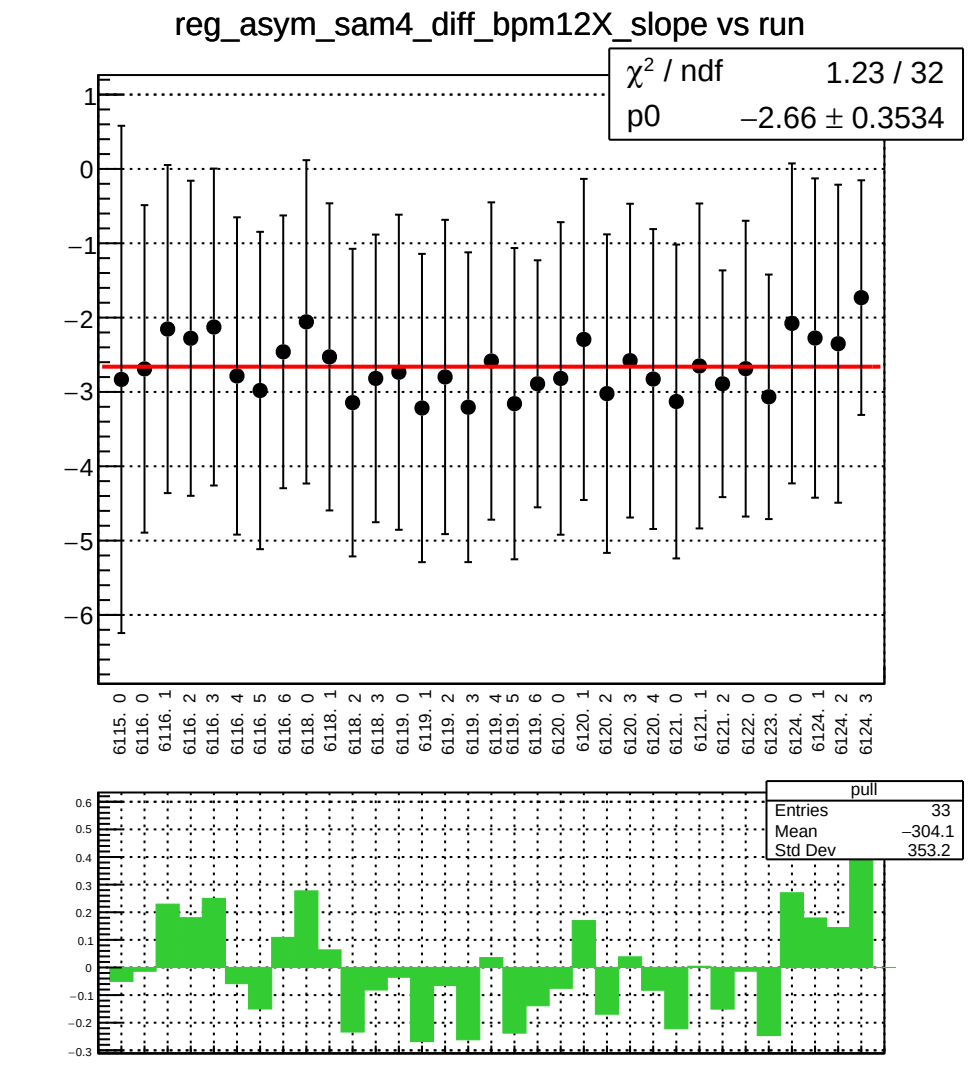

pull1D
Entries 33
Mean 0.03247
Std Dev 0.3615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

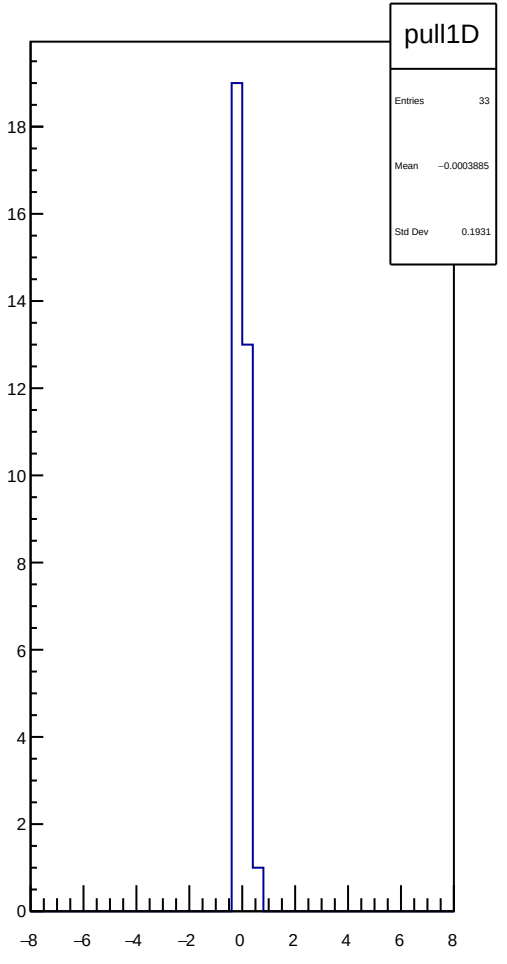

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.5723 / 32
p0 −123.4 ± 8.067
−40
−60
−80
−100
−120
−140
−160
−180
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 33.32
Std Dev 92.61
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

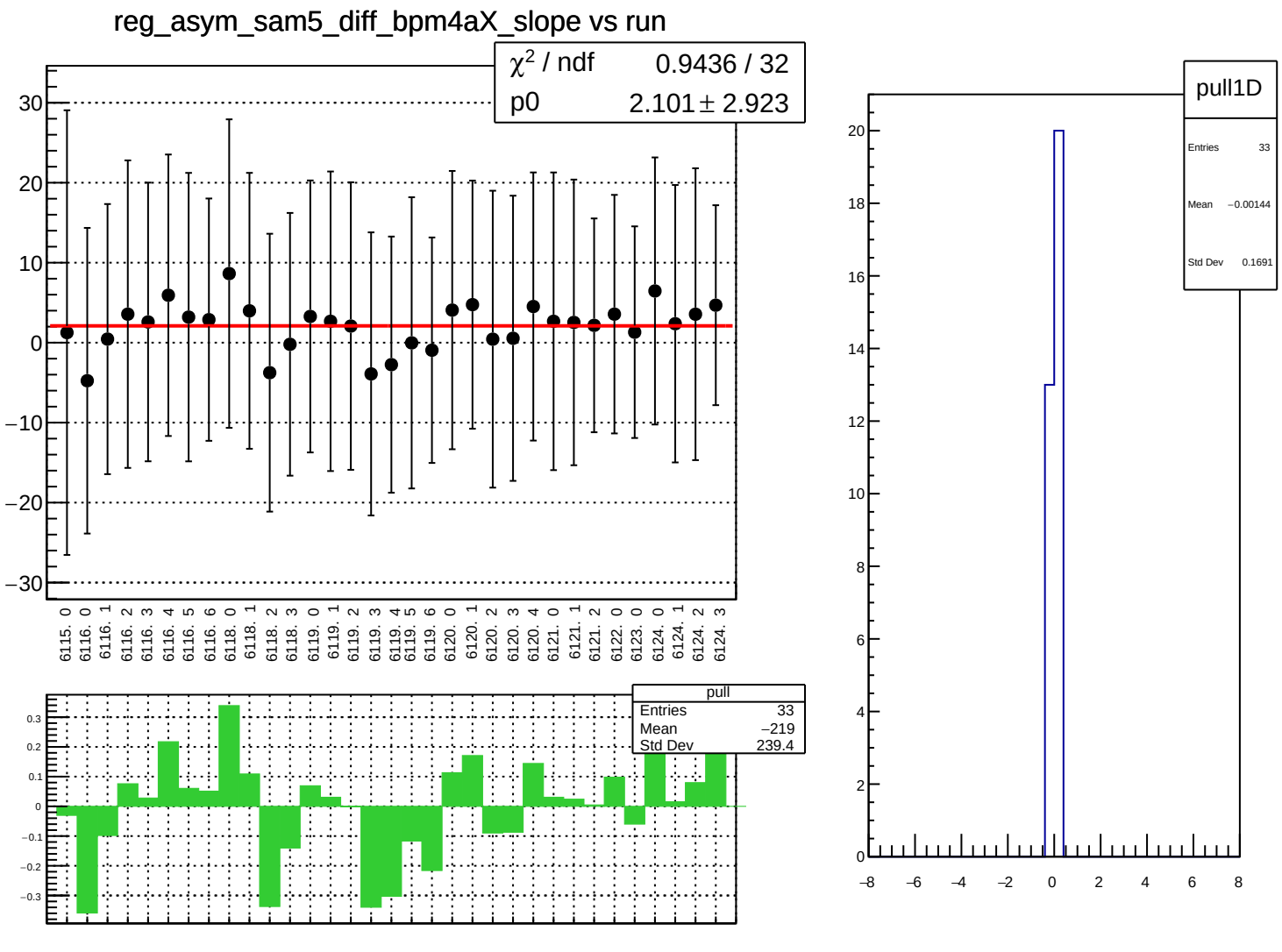

pull1D
Entries 33
Mean −0.000474
Std Dev 0.1317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

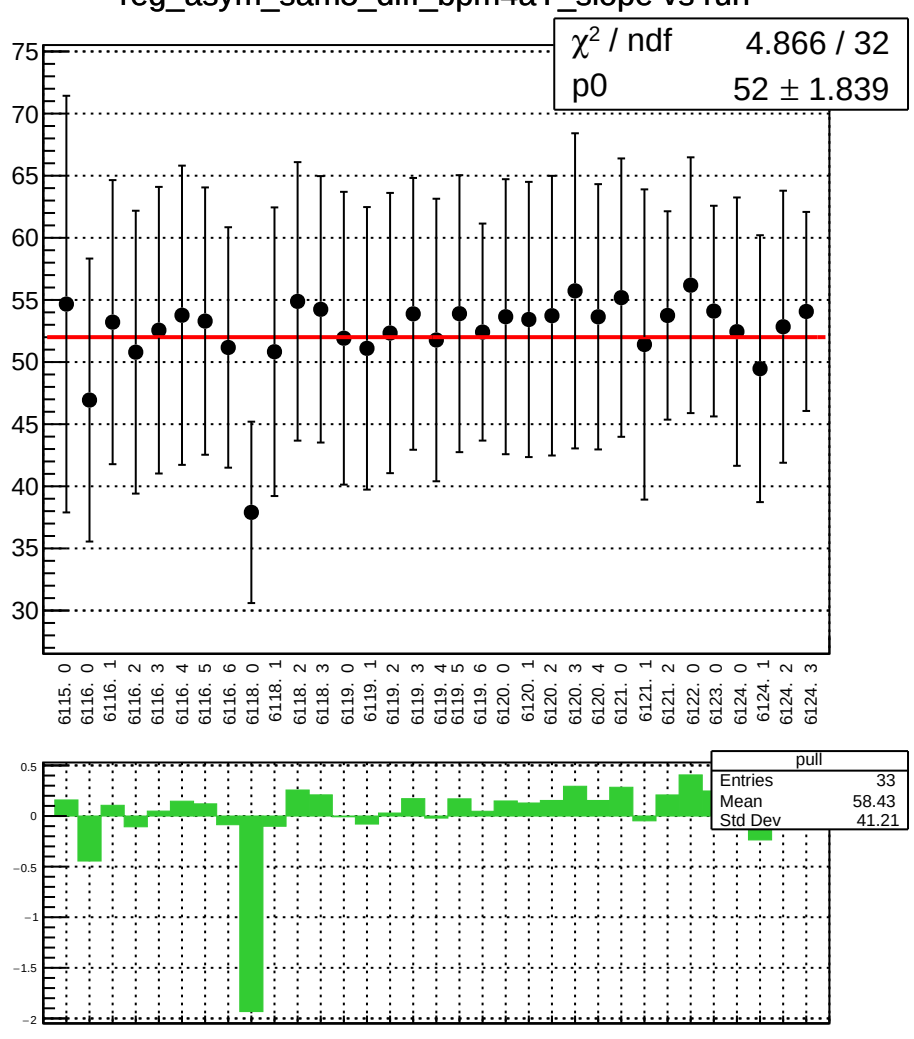

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.899 / 32
p0 256 ± 4.635
300
280
260
240
220
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 53.51
Std Dev 37.12
1.5
1
0.5
0
−0.5

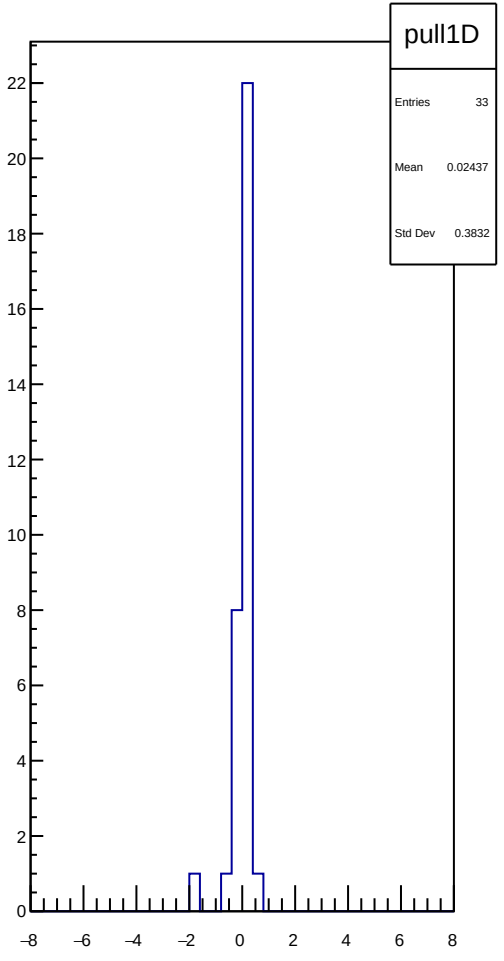

pull1D
Entries 33
Mean −0.02324
Std Dev 0.343
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

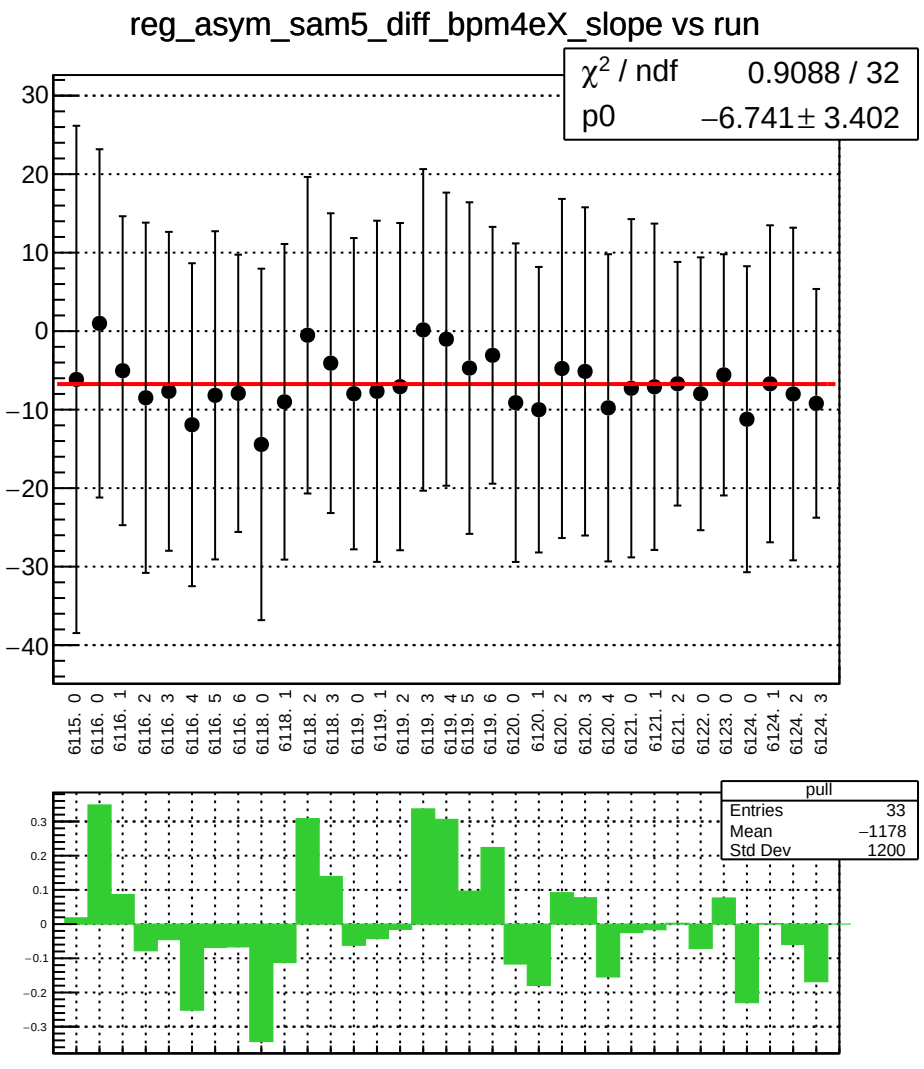

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.23 / 32
p0 −2.66 ± 0.3534
1
0
−1
−2
−3
−4
−5
−6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −304.1
Std Dev 353.2
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

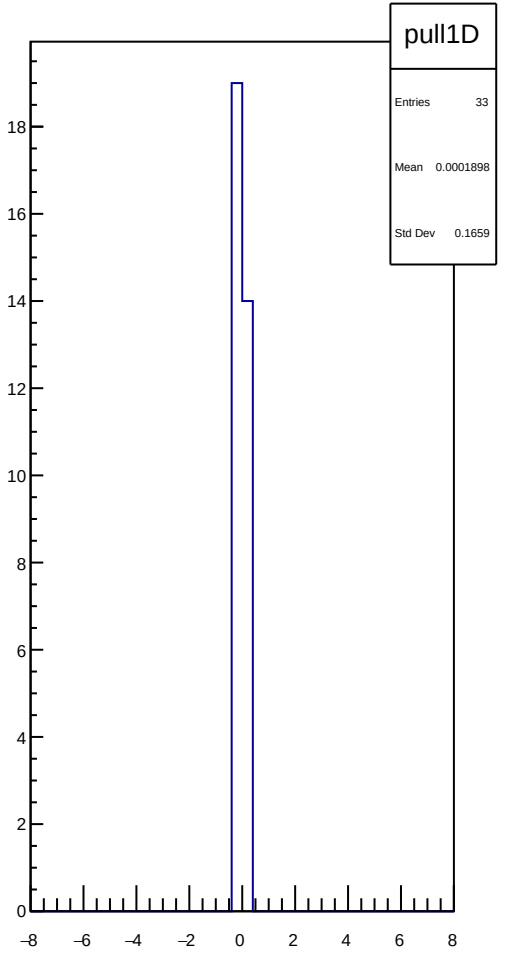

pull1D
Entries 33
Mean −0.0003885
Std Dev 0.1931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

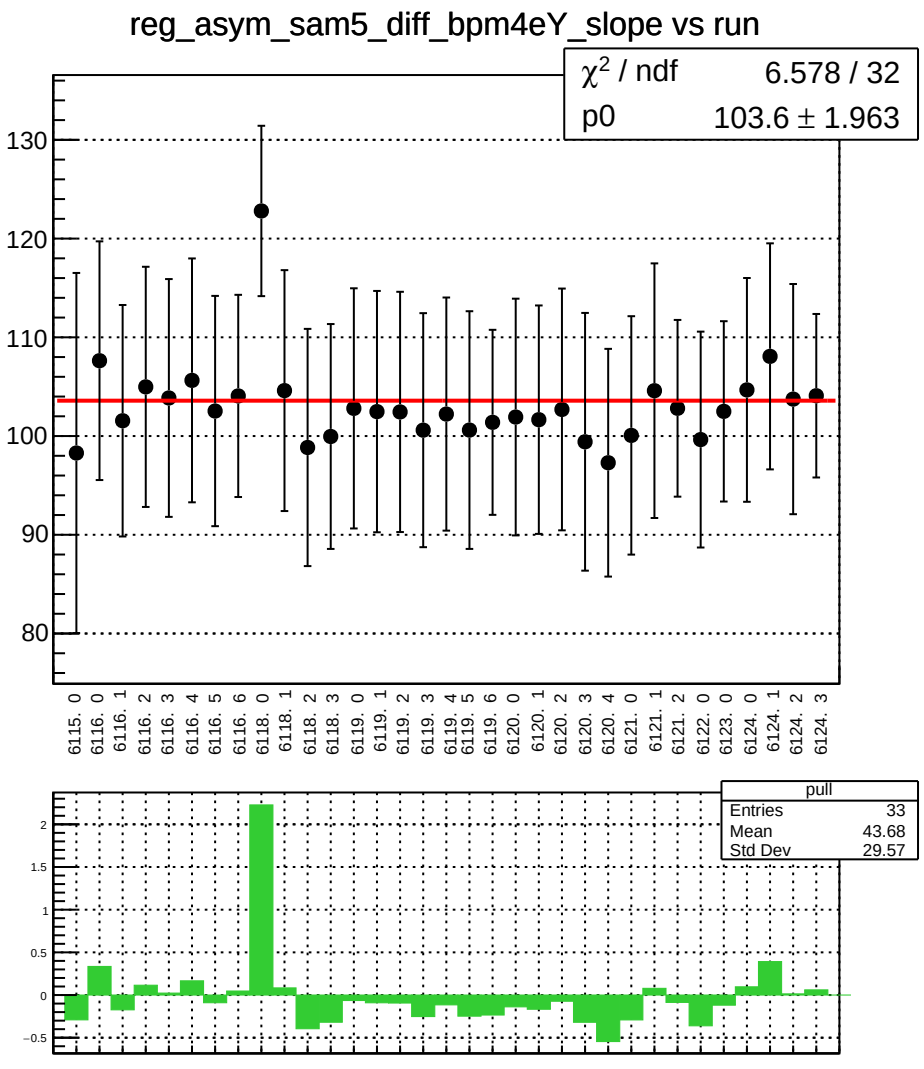

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 0.9436 / 32
p0 2.101 ± 2.923
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −219
Std Dev 239.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 33
Mean −0.00144
Std Dev 0.1691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

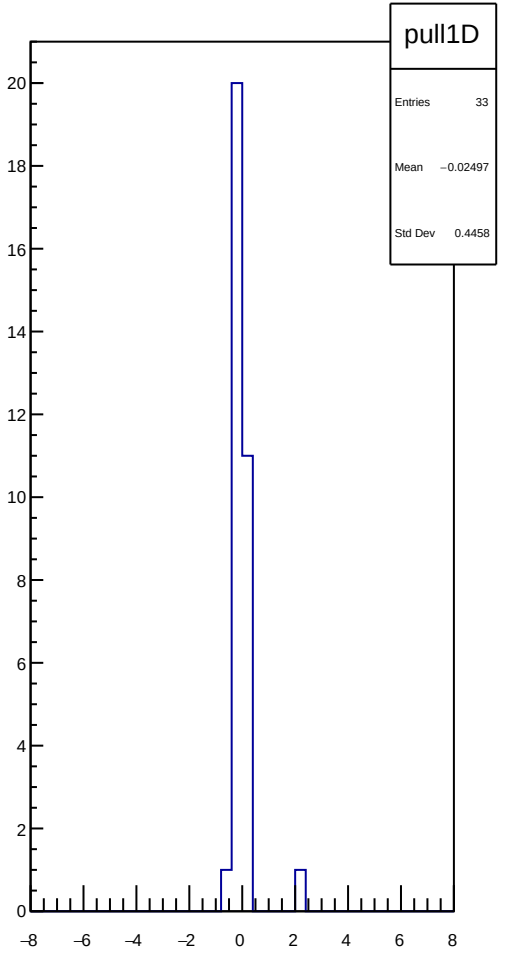

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 4.866 / 32
p0 52 ± 1.839
pull
Entries 33
Mean 58.43
Std Dev 41.21

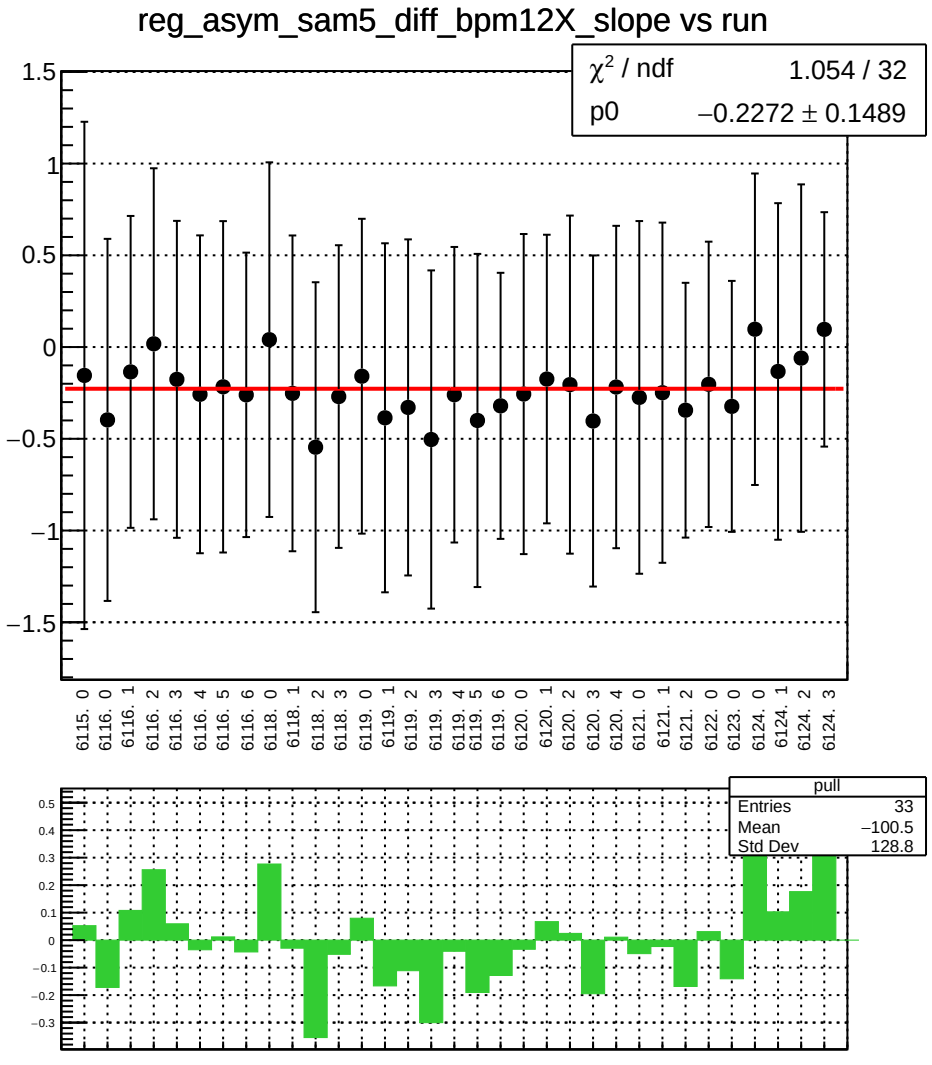

pull1D
Entries 33
Mean 0.02437
Std Dev 0.3832

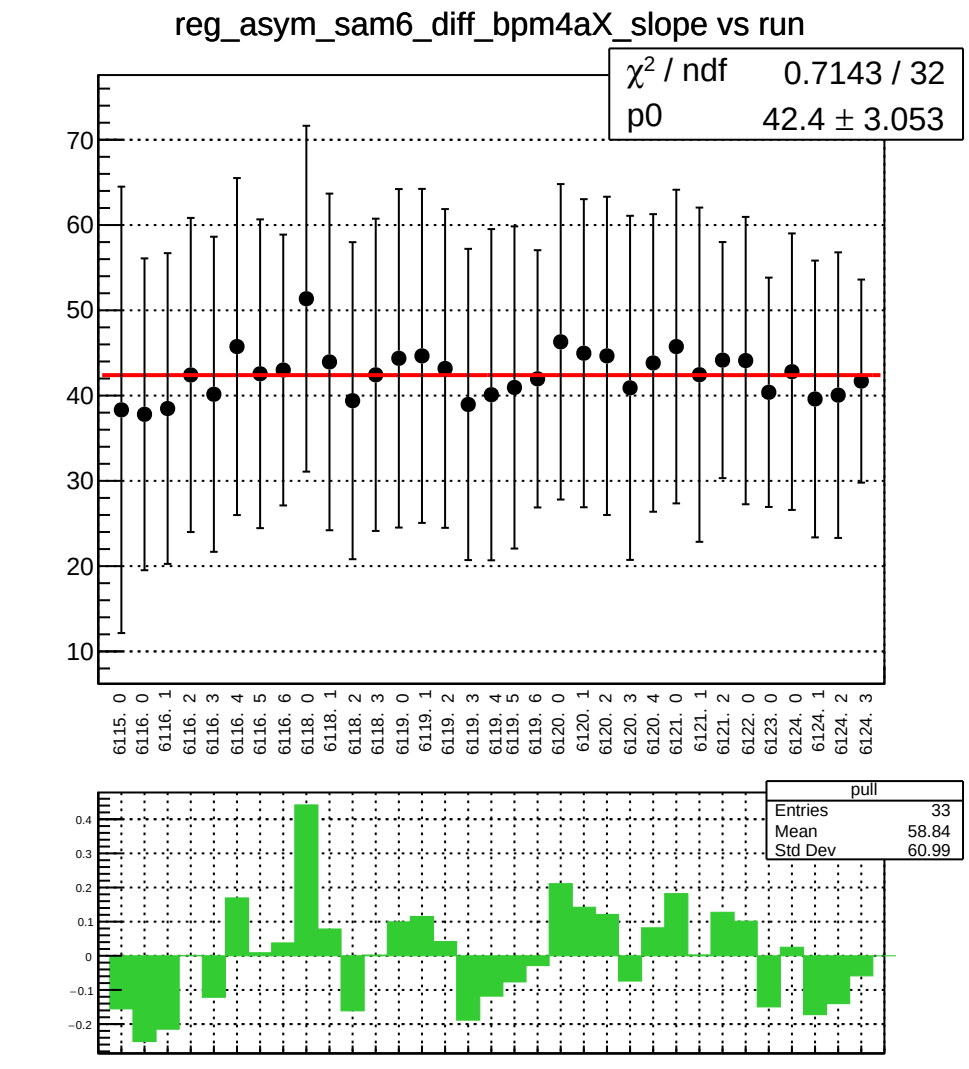

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 0.9088 / 32
p0 −6.741 ± 3.402
30
20
10
0
−10
−20
−30
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1178
Std Dev 1200
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

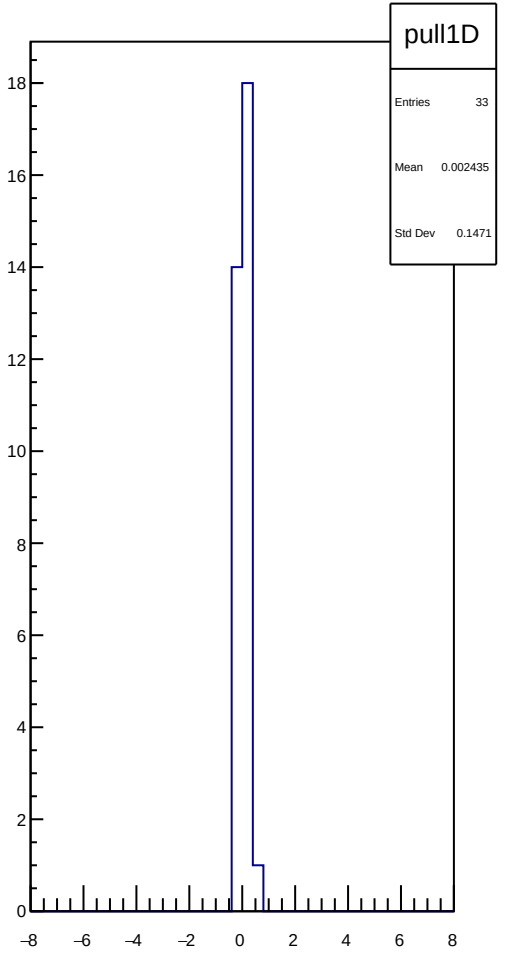

pull1D
Entries 33
Mean 0.0001898
Std Dev 0.1659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

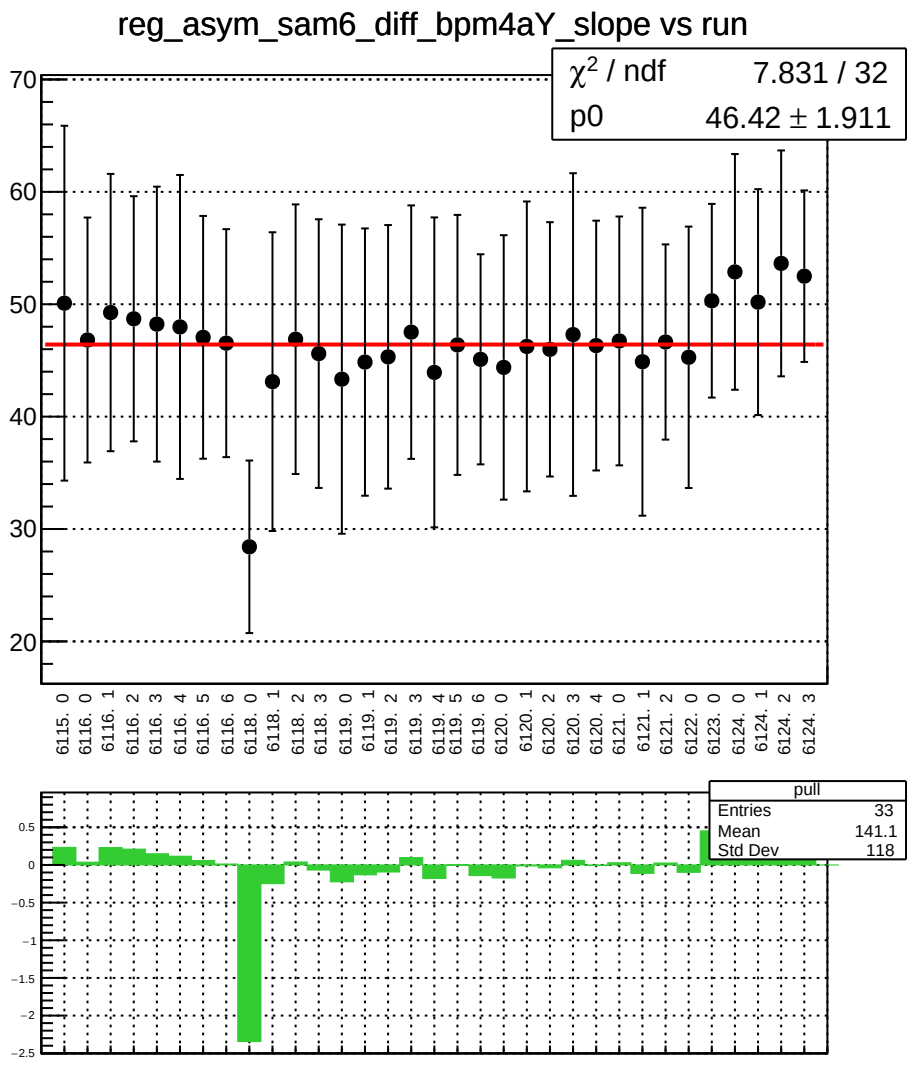

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 6.578 / 32
p0 103.6 ± 1.963
130
120
110
100
90
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 43.68
Std Dev 29.57
2
1.5
1
0.5
0
−0.5

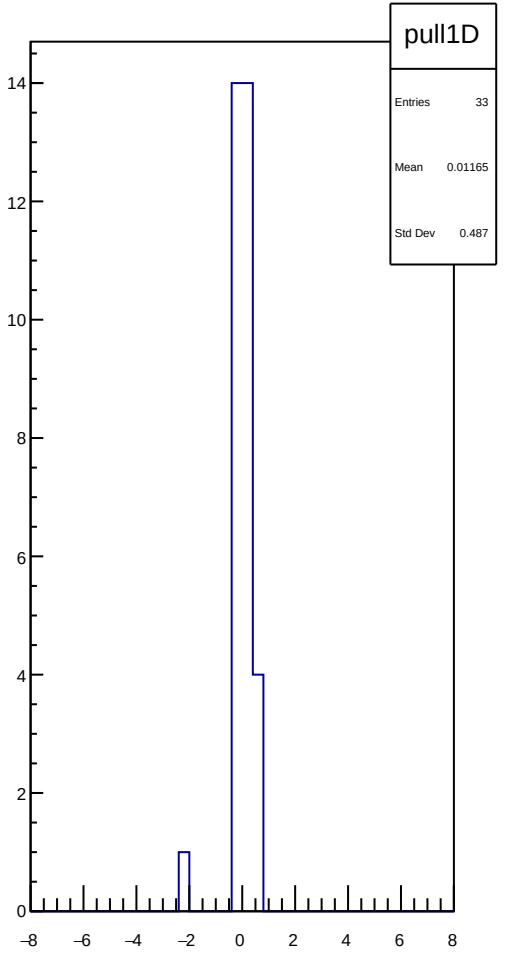

pull1D
Entries 33
Mean −0.02497
Std Dev 0.4458
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

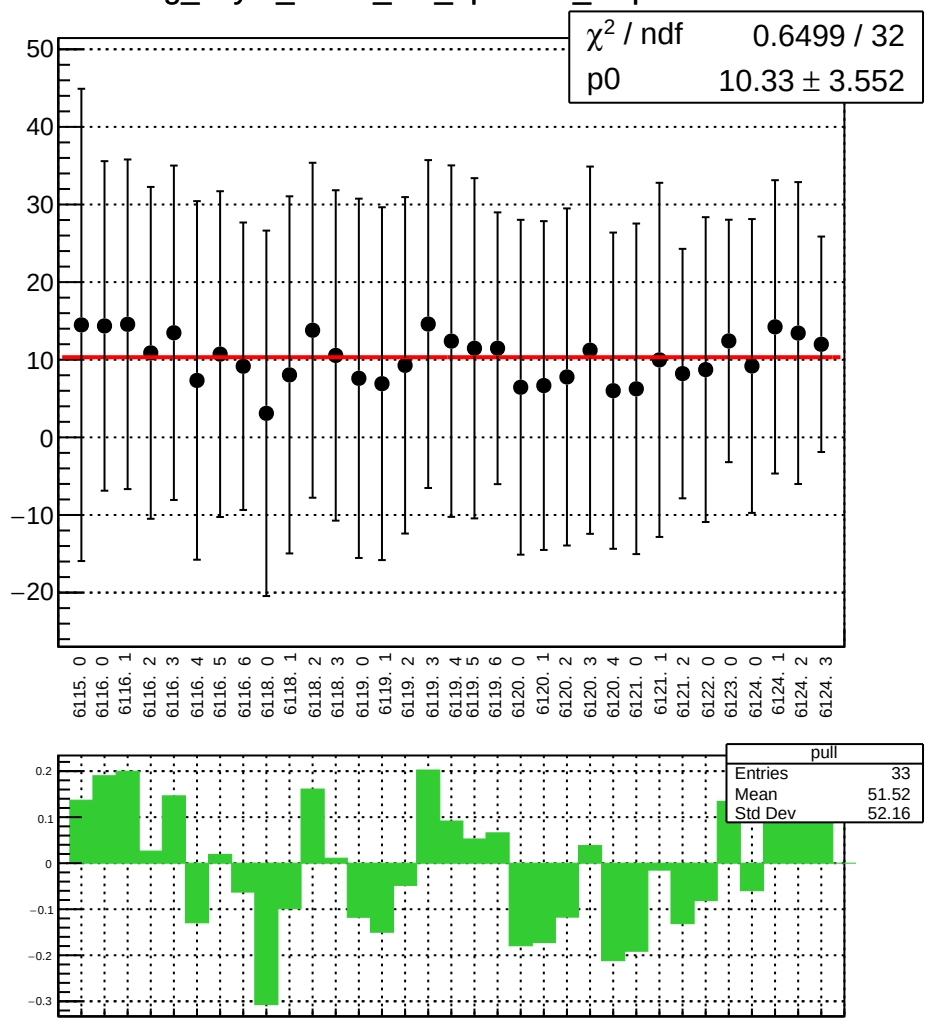

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 1.054 / 32
p0 −0.2272 ± 0.1489
1.5
1
0.5
0
−0.5
−1
−1.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −100.5
Std Dev 128.8
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 33
Mean −0.002639
Std Dev 0.1787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

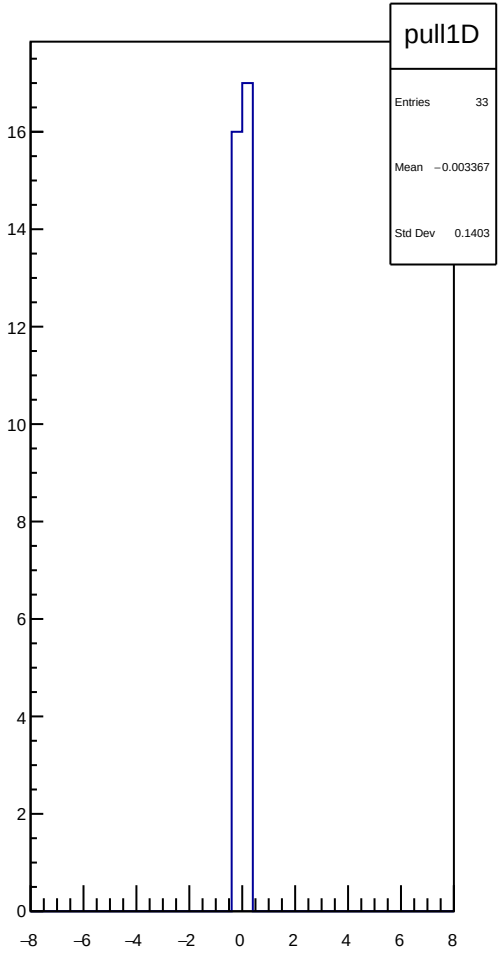

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.7143 / 32
p0 42.4 ± 3.053
70
60
50
40
30
20
10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 58.84
Std Dev 60.99
0.4
0.3
0.2
0.1
0
−0.1
−0.2

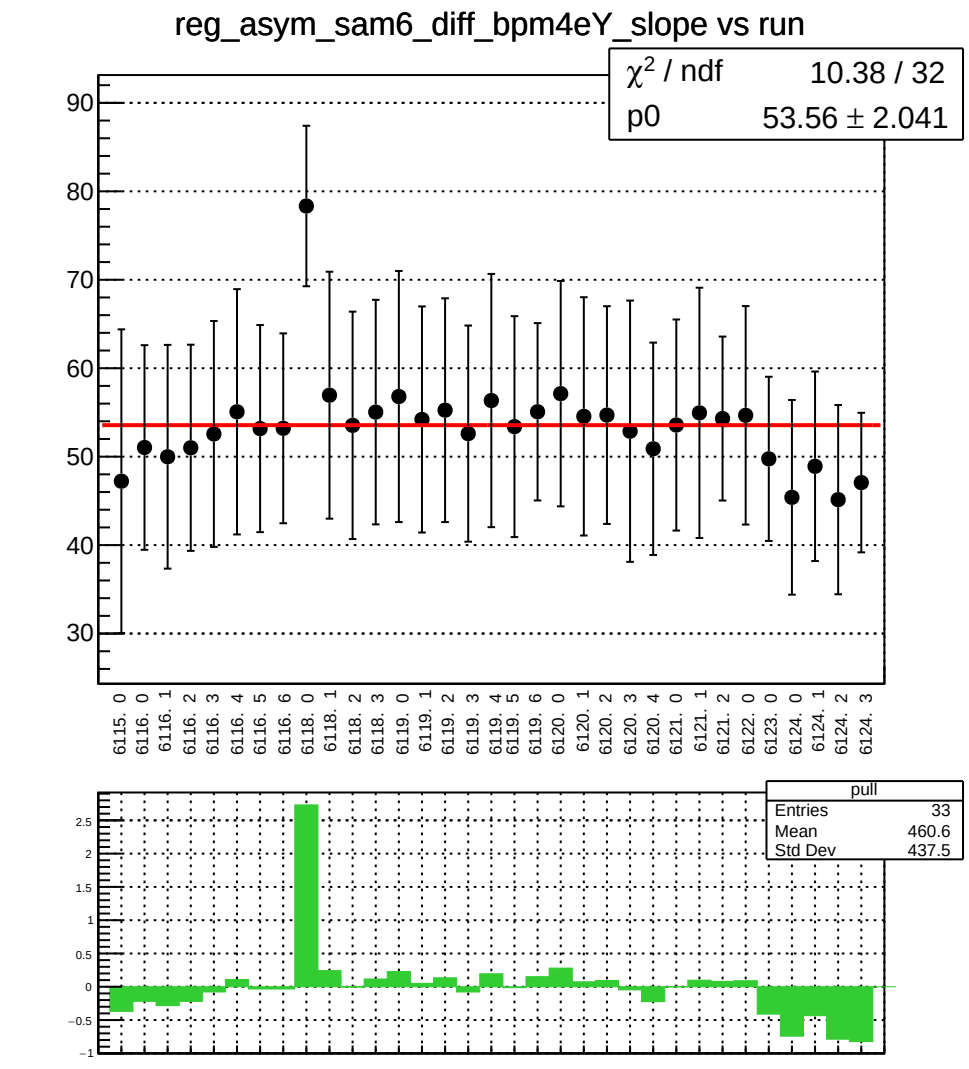

pull1D
Entries 33
Mean 0.002435
Std Dev 0.1471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

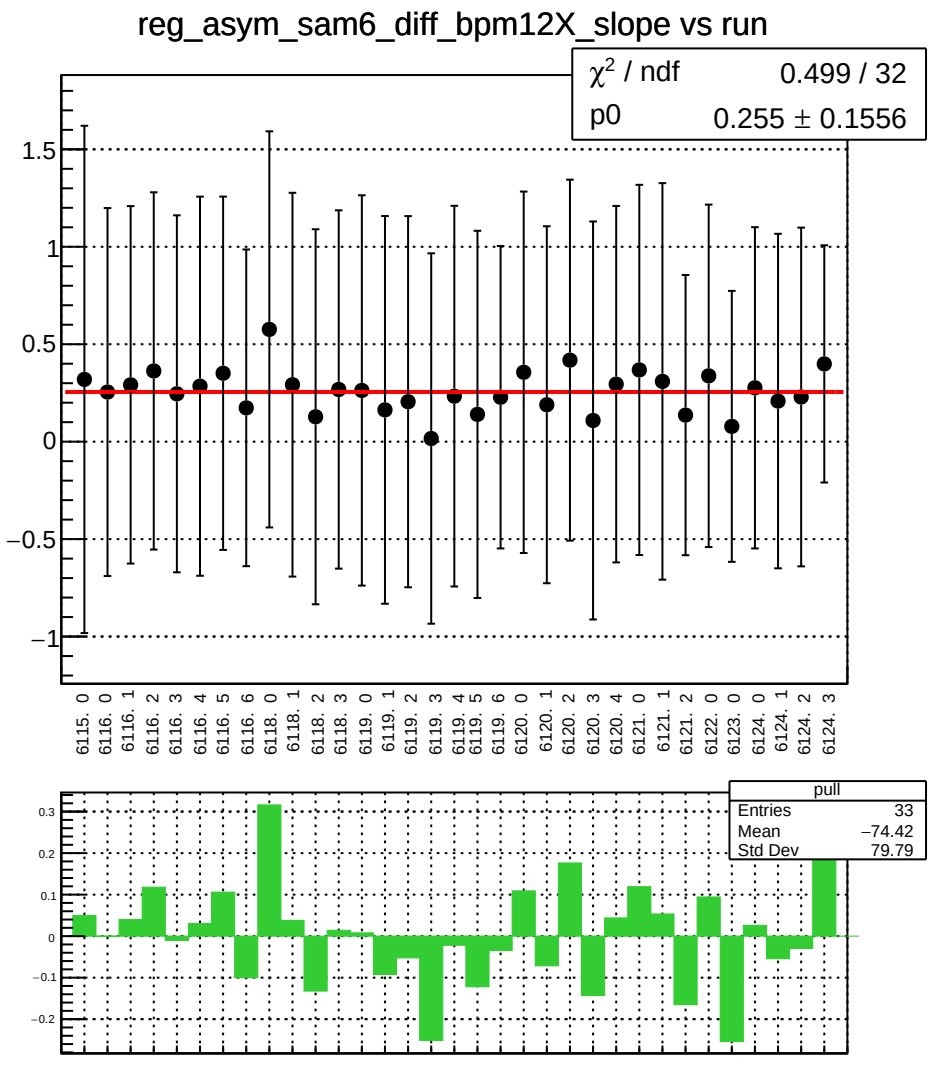

reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 7.831 / 32
p0 46.42 ± 1.911
70
60
50
40
30
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 141.1
Std Dev 118
0.5
0
−0.5
−1
−1.5
−2
−2.5

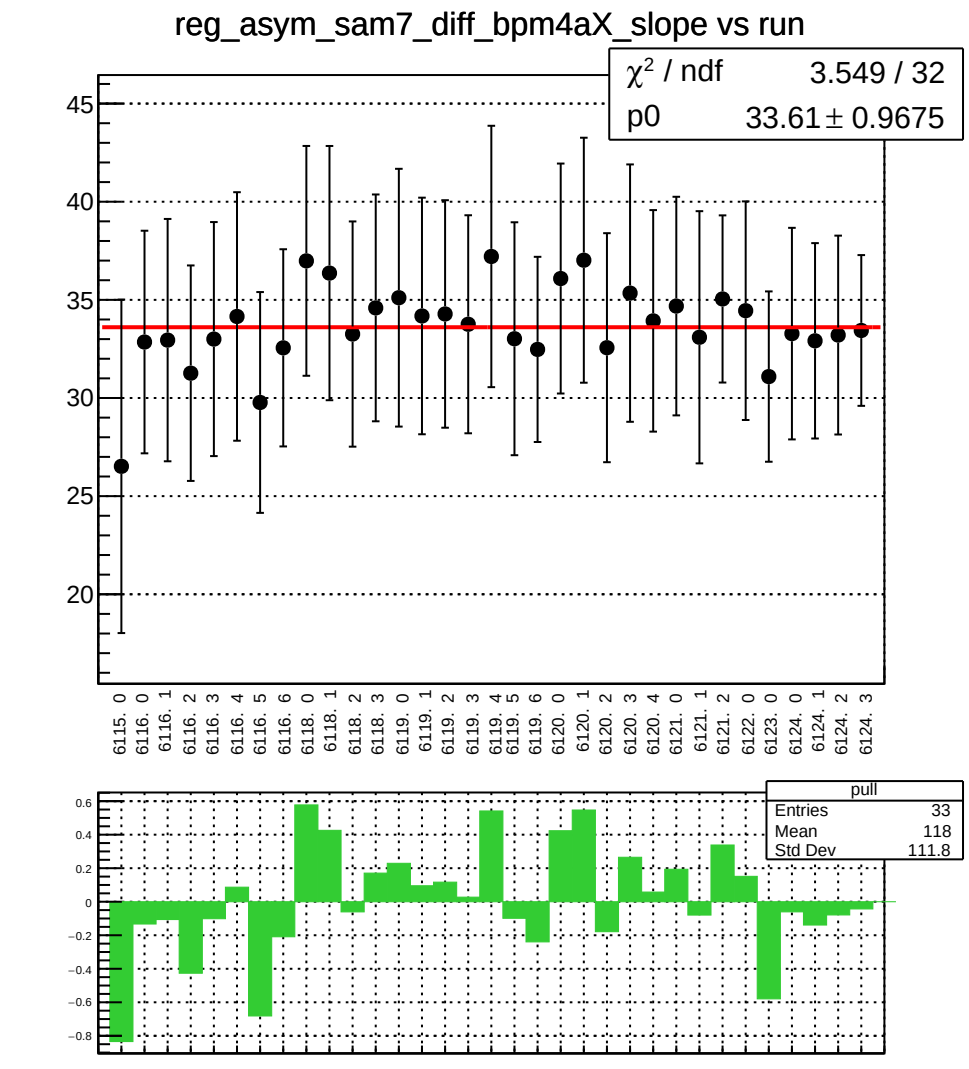

pull1D
Entries 33
Mean 0.01165
Std Dev 0.487
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

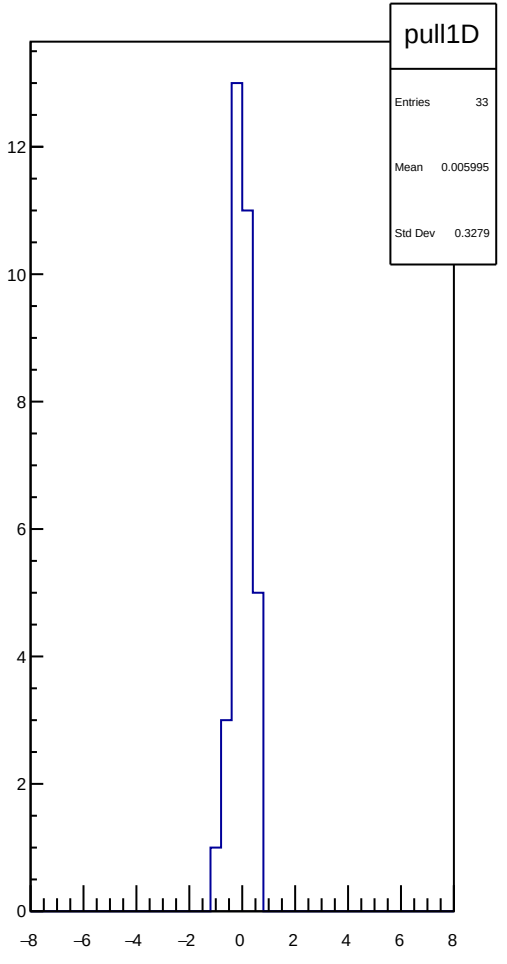

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.6499 / 32
p0 10.33 ± 3.552
50
40
30
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.52
Std Dev 52.16
0.2
0.1
0
−0.1
−0.2
−0.3

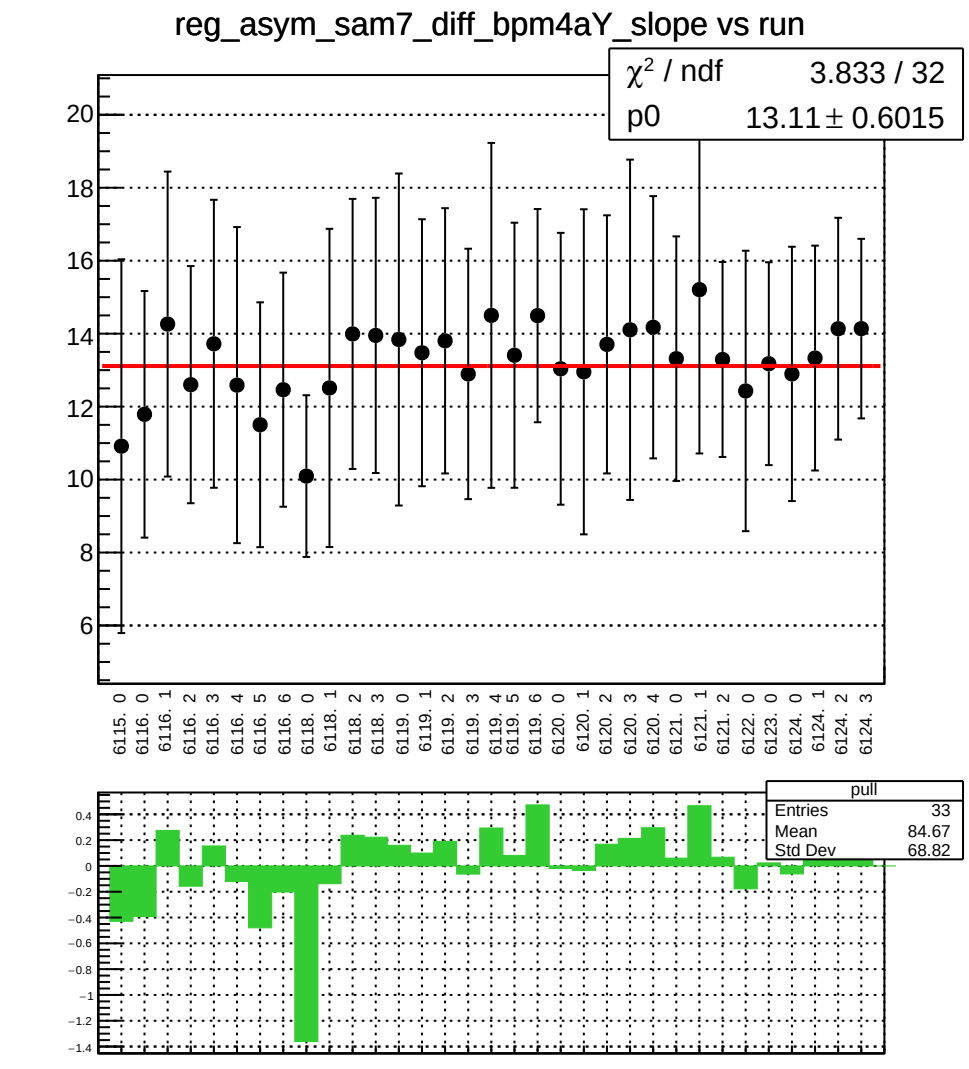

pull1D
Entries 33
Mean −0.003367
Std Dev 0.1403
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

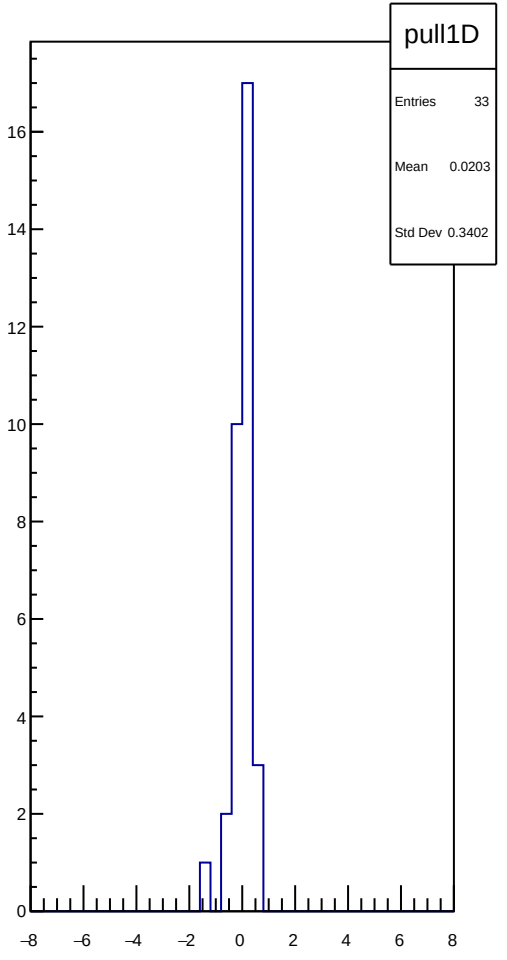

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.38 / 32
p0 53.56 ± 2.041
90
80
70
60
50
40
30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 460.6
Std Dev 437.5
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.003541
Std Dev 0.5607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

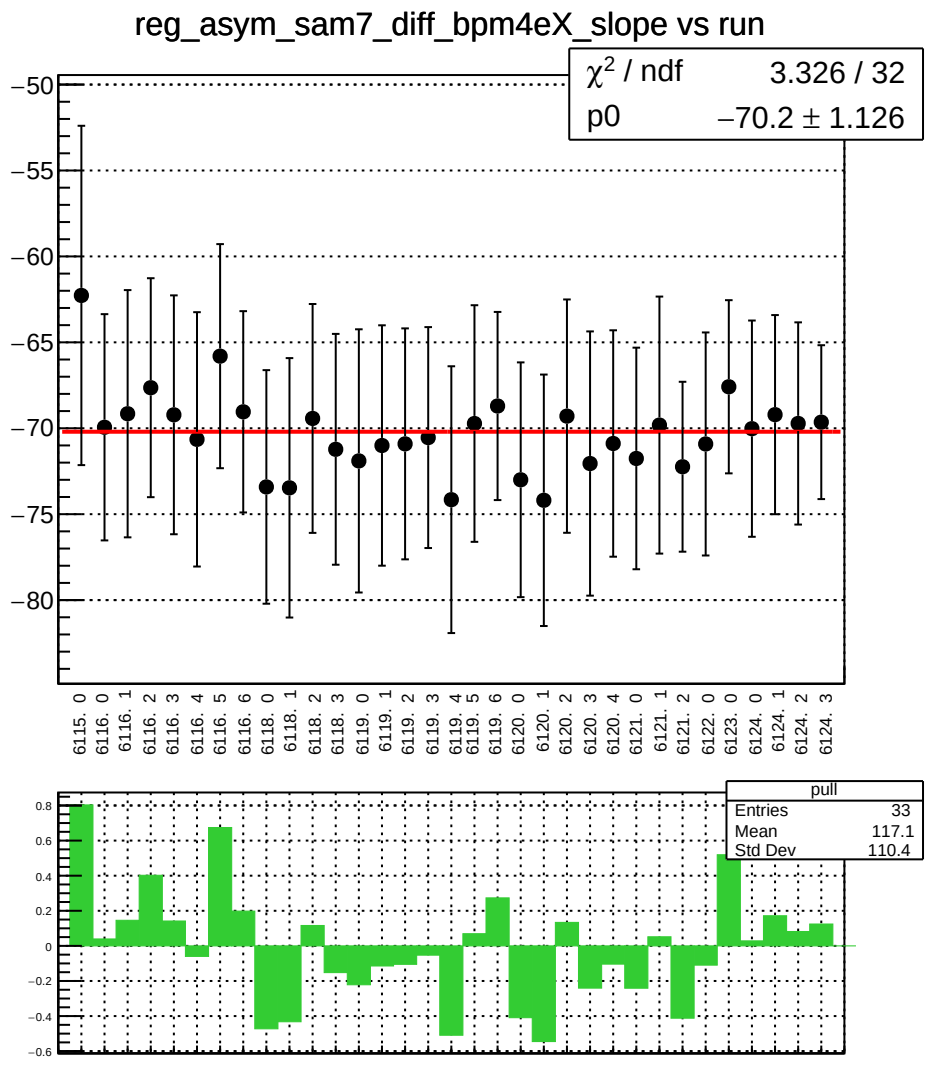

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.499 / 32
p0 0.255 ± 0.1556
1.5
1
0.5
0
−0.5
−1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −74.42
Std Dev 79.79
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean 0.001282
Std Dev 0.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

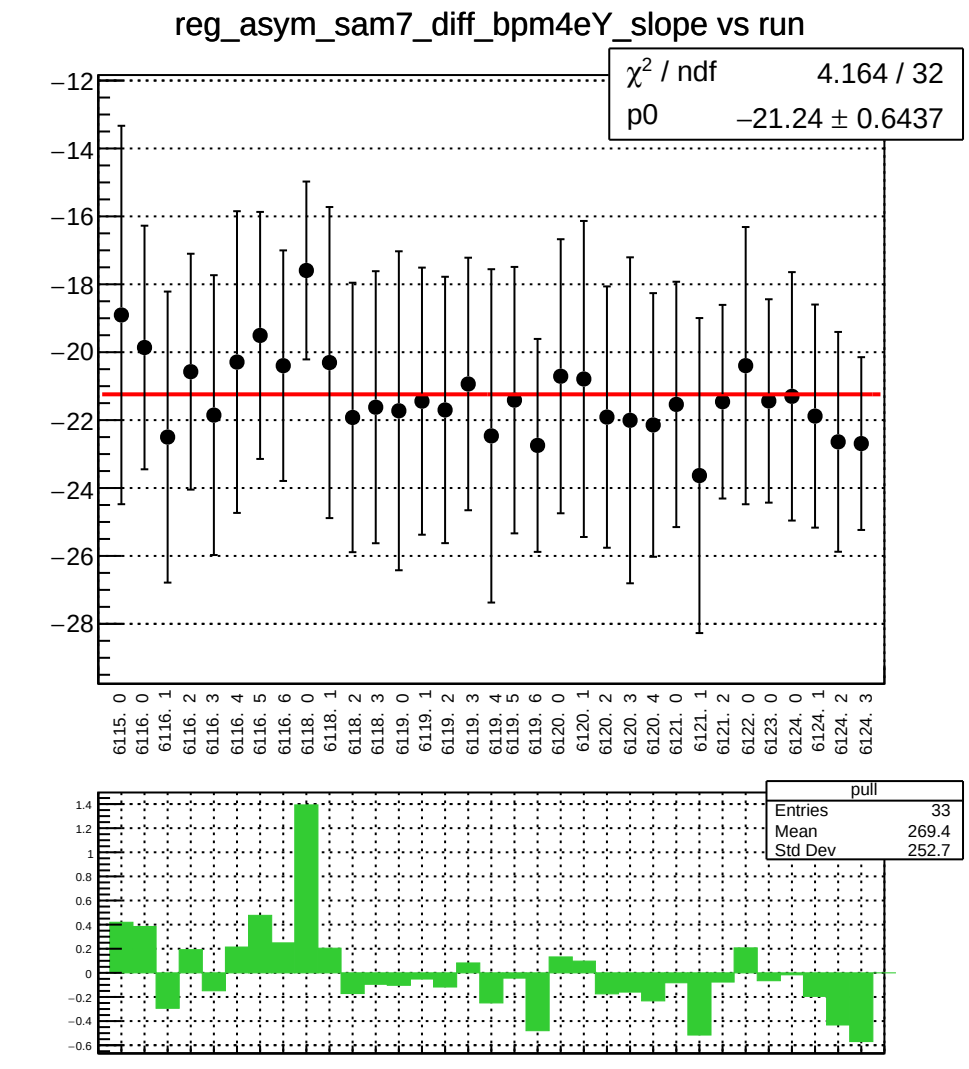

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 3.549 / 32
p0 33.61 ± 0.9675
45
40
35
30
25
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 118
Std Dev 111.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

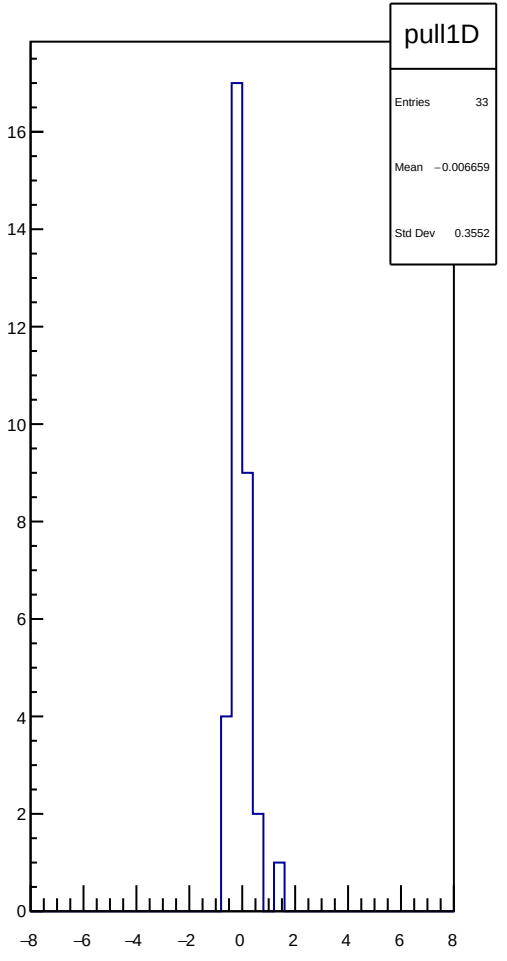

pull1D
Entries 33
Mean 0.005995
Std Dev 0.3279
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

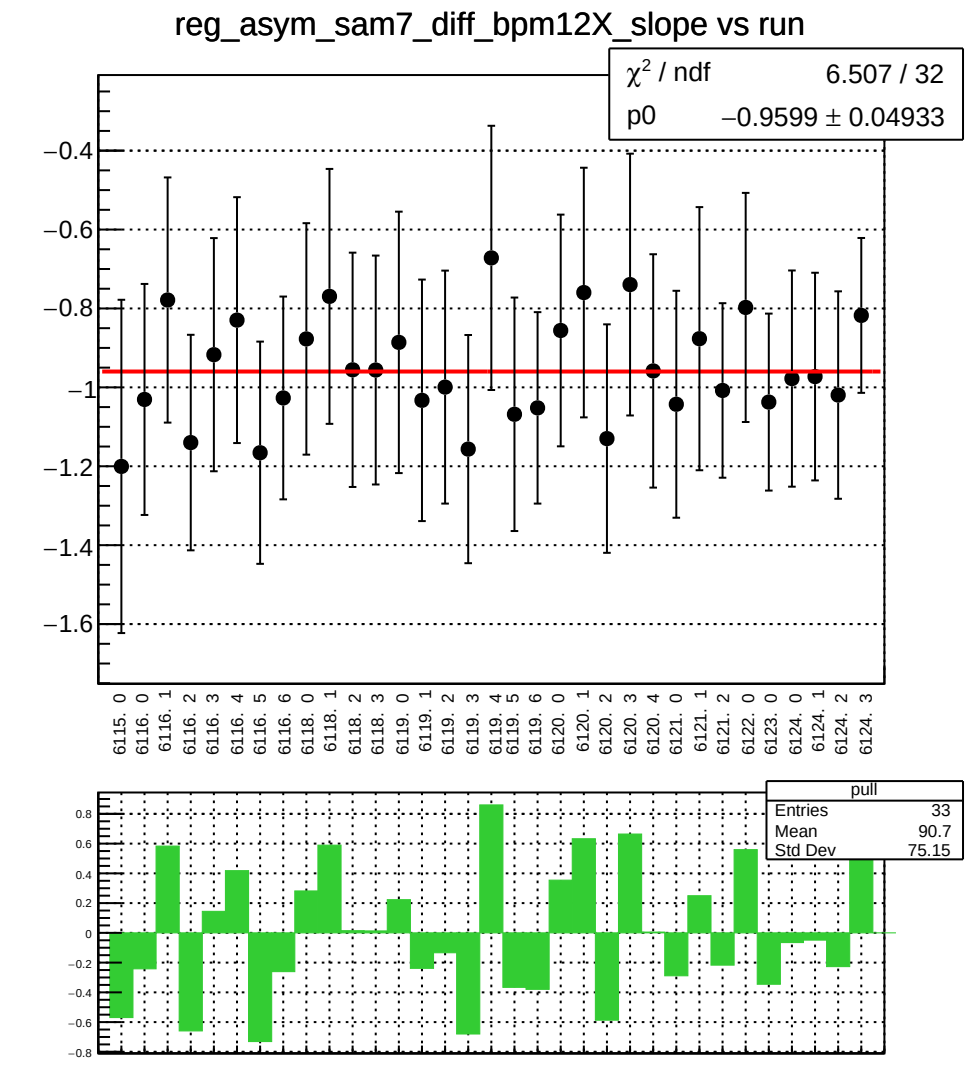

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 3.833 / 32
p0 13.11 ± 0.6015
pull
Entries 33
Mean 84.67
Std Dev 68.82
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

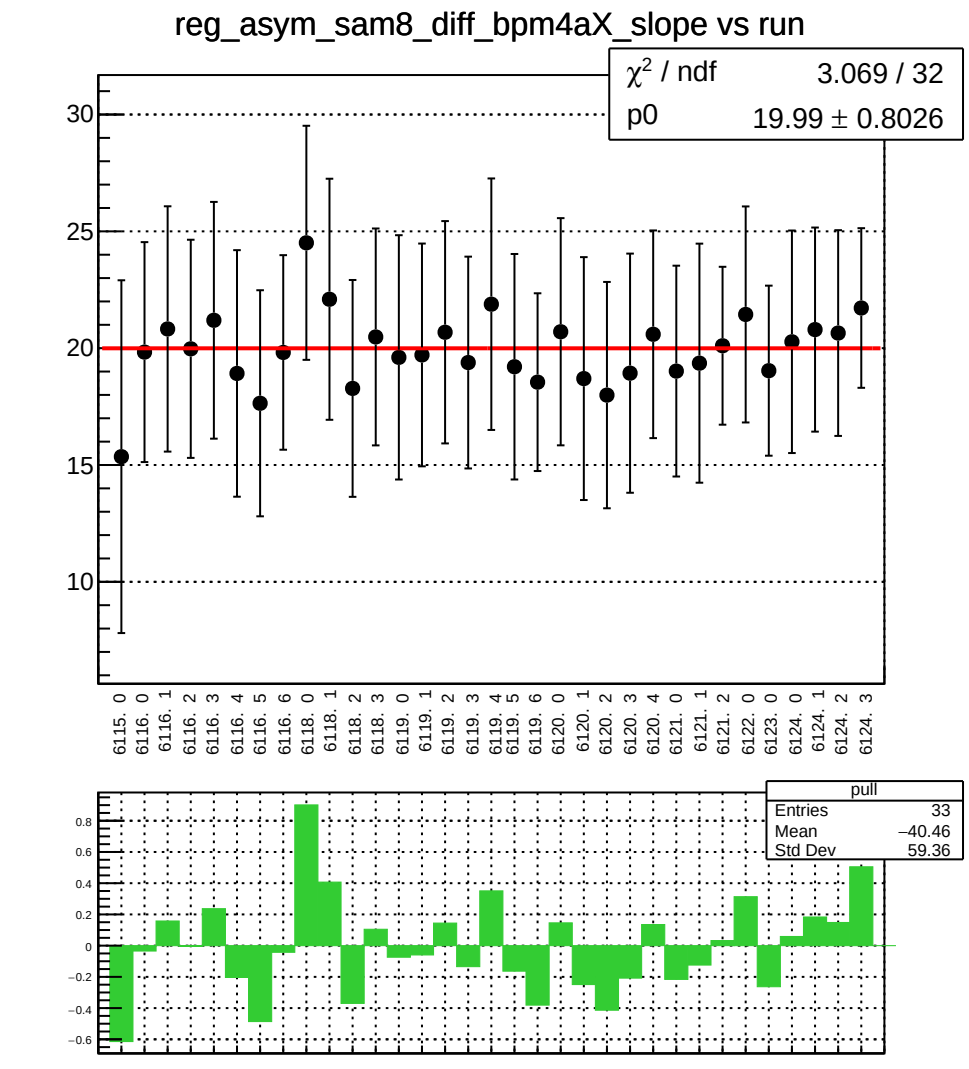

pull1D
Entries 33
Mean 0.0203
Std Dev 0.3402

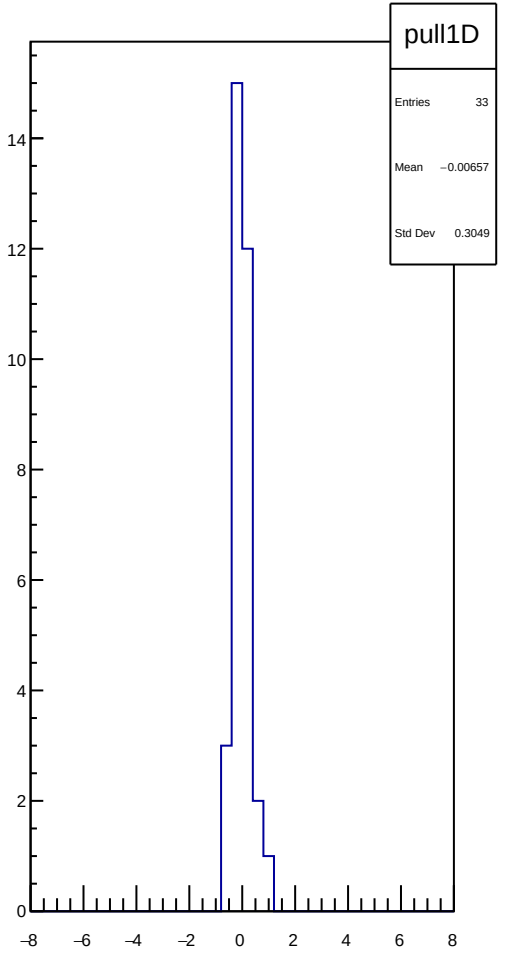

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.326 / 32
p0 −70.2 ± 1.126
−50
−55
−60
−65
−70
−75
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 117.1
Std Dev 110.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean −0.006257
Std Dev 0.3174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

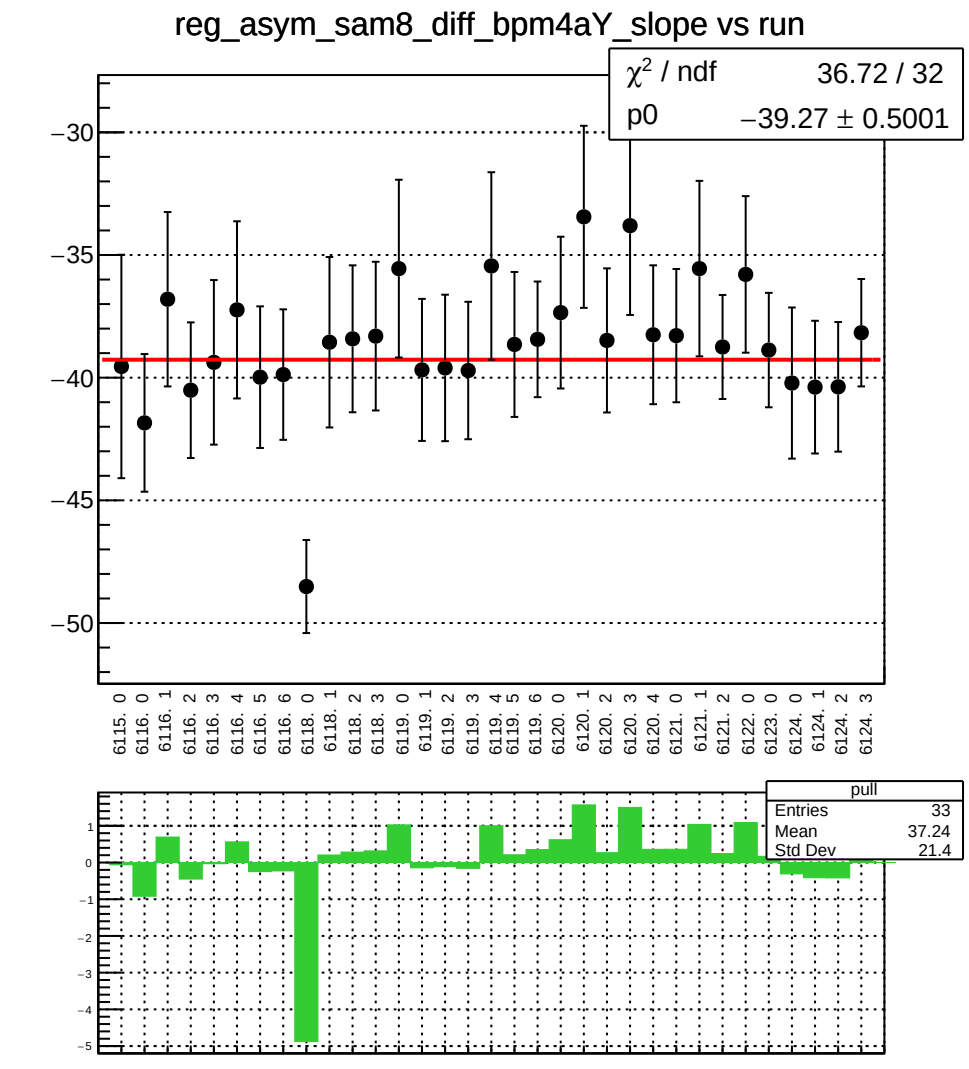

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.164 / 32
p0 −21.24 ± 0.6437
−12
−14
−16
−18
−20
−22
−24
−26
−28
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 269.4
Std Dev 252.7
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

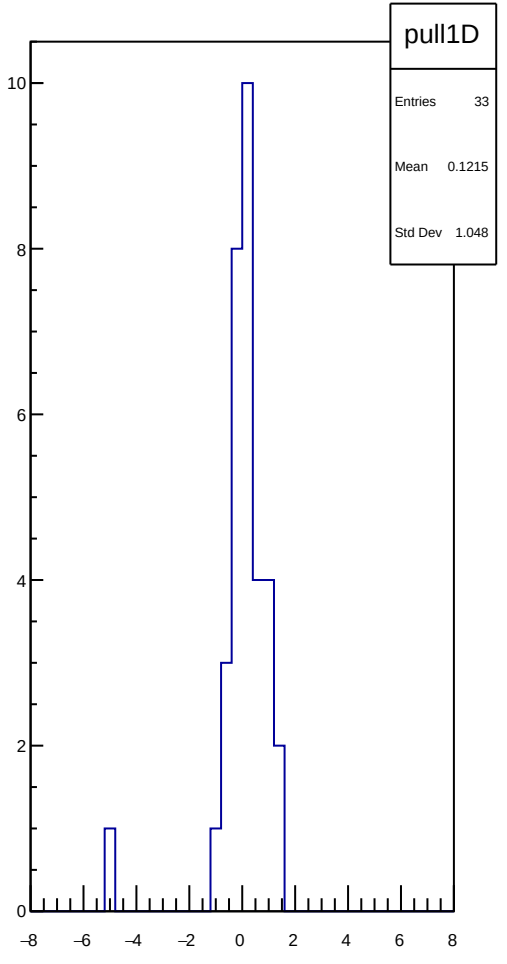

pull1D
Entries 33
Mean −0.006659
Std Dev 0.3552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

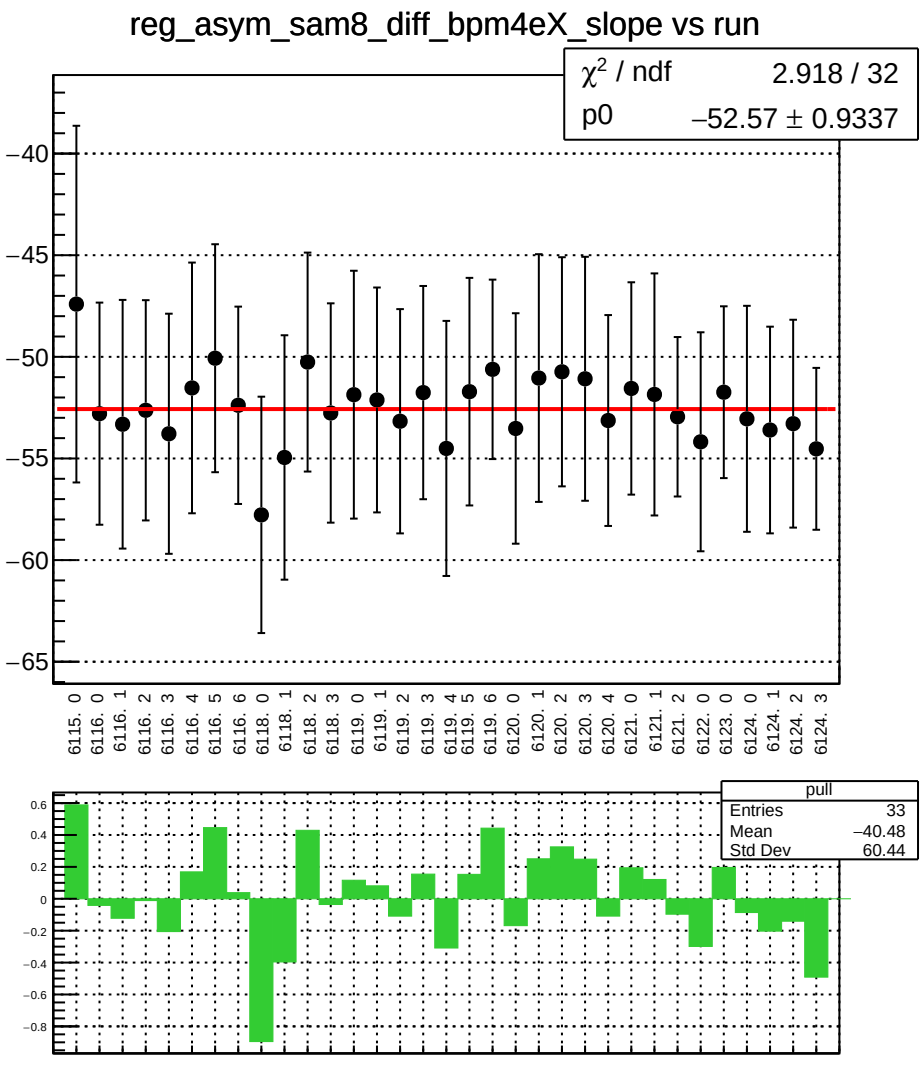

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.507 / 32
p0 −0.9599 ± 0.04933
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 90.7
Std Dev 75.15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.008448
Std Dev 0.444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

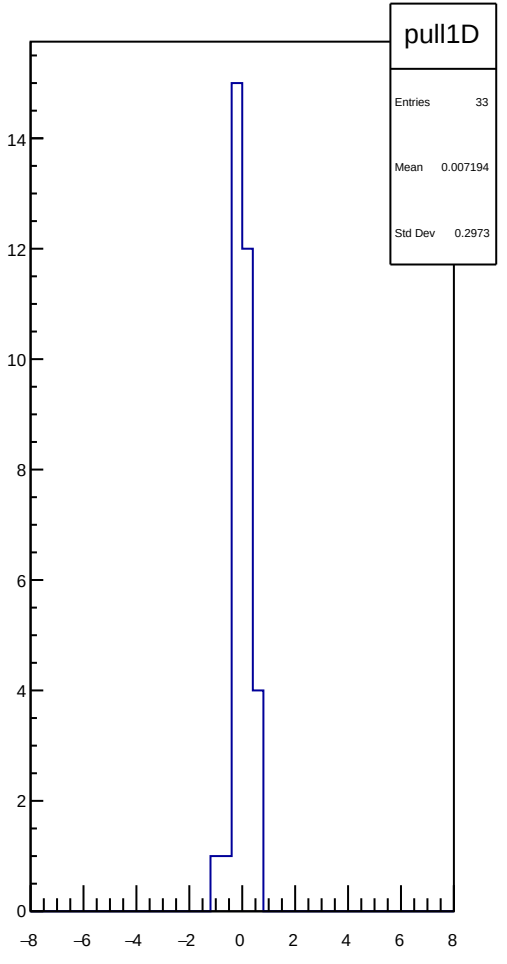

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 3.069 / 32
p0 19.99 ± 0.8026
30
25
20
15
10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −40.46
Std Dev 59.36
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

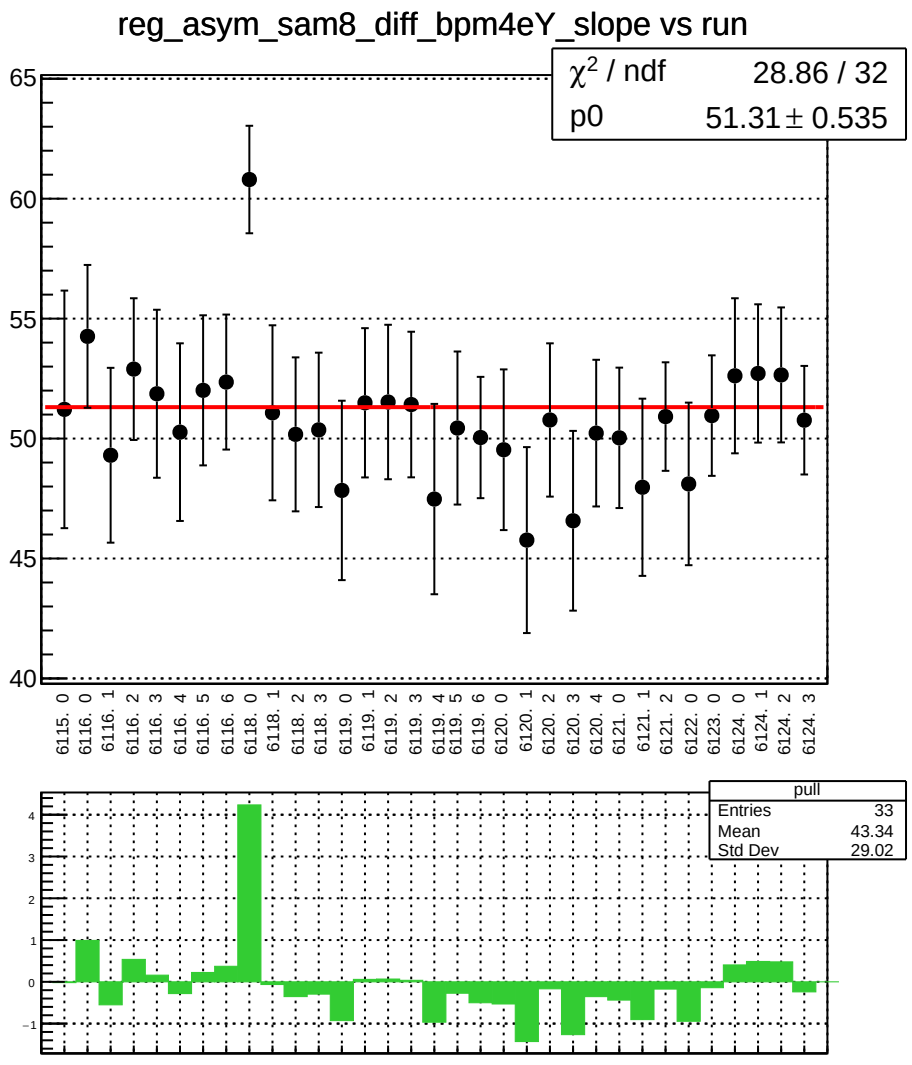

pull1D
Entries 33
Mean −0.00657
Std Dev 0.3049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

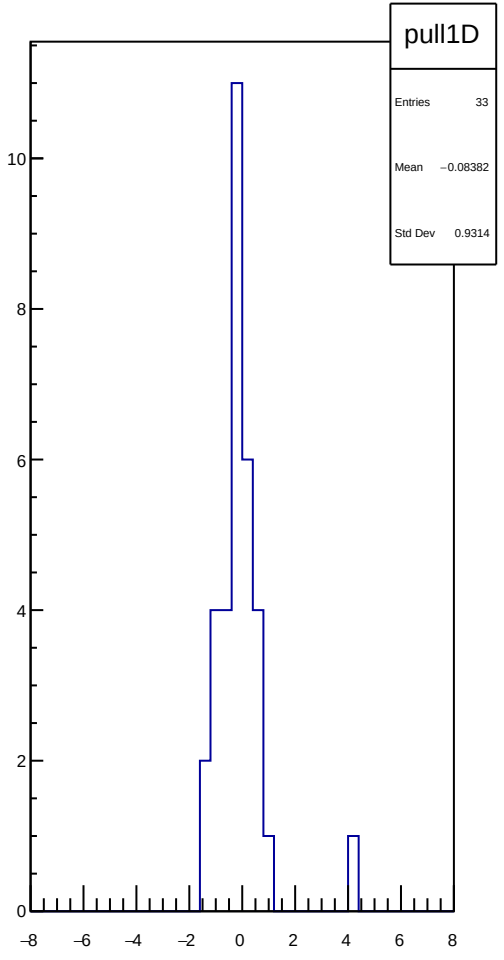

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 36.72 / 32
p0 −39.27 ± 0.5001
−30
−35
−40
−45
−50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 37.24
Std Dev 21.4
1
0
−1
−2
−3
−4
−5

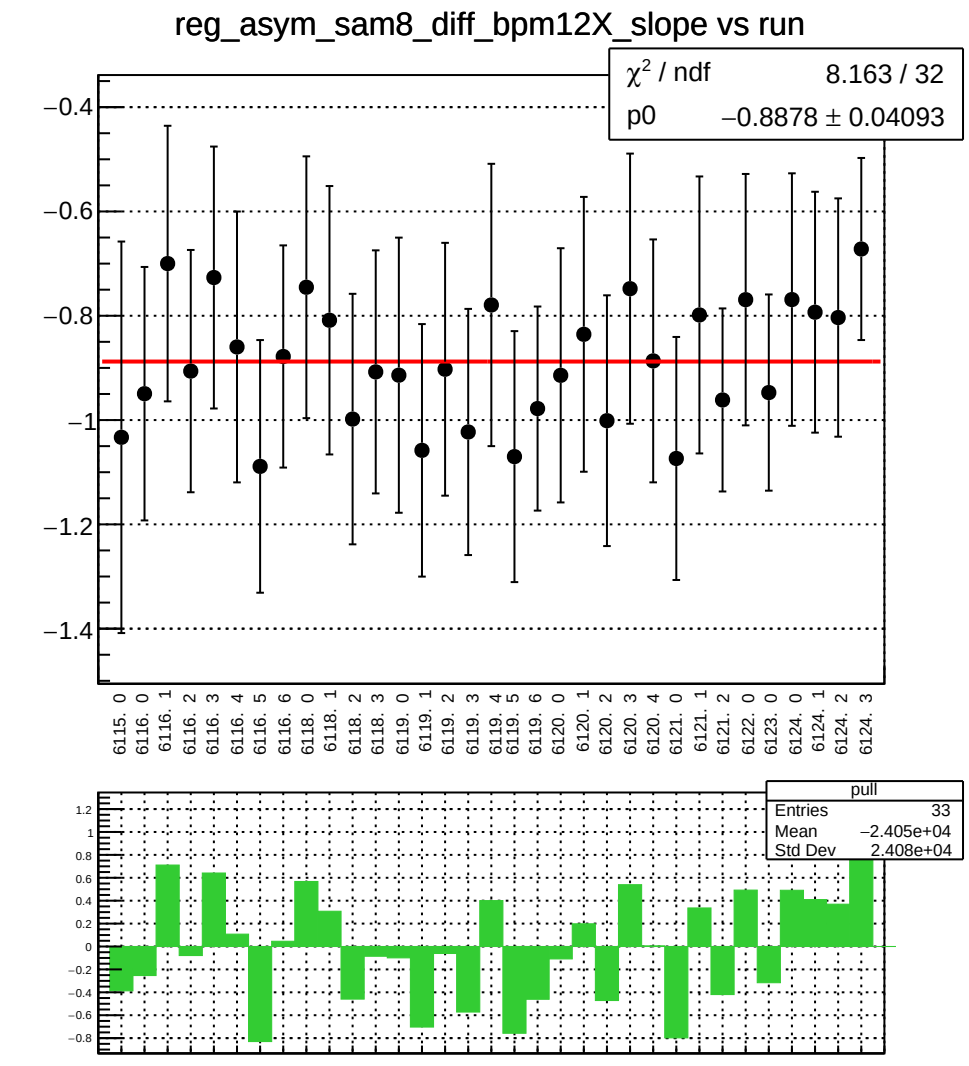

pull1D
Entries 33
Mean 0.1215
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

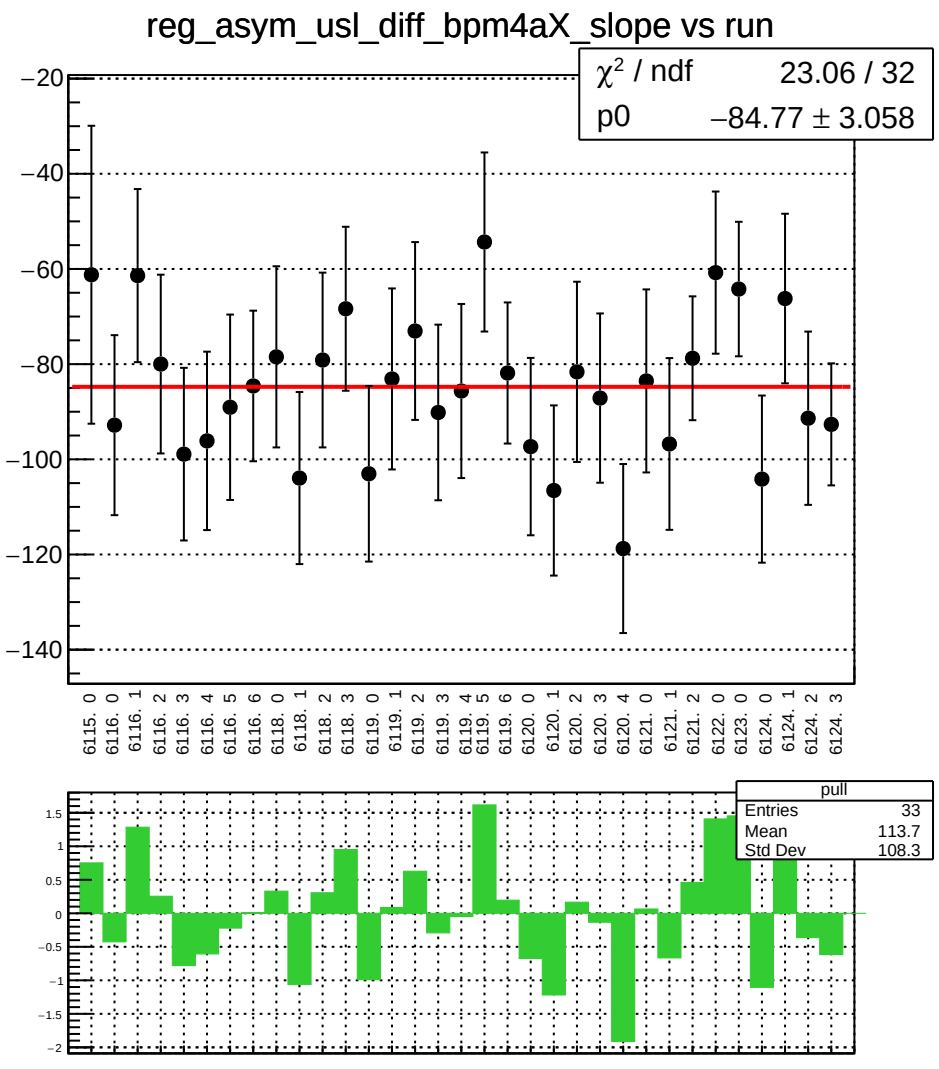

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.918 / 32
p0 −52.57 ± 0.9337
−40
−45
−50
−55
−60
−65
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −40.48
Std Dev 60.44
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

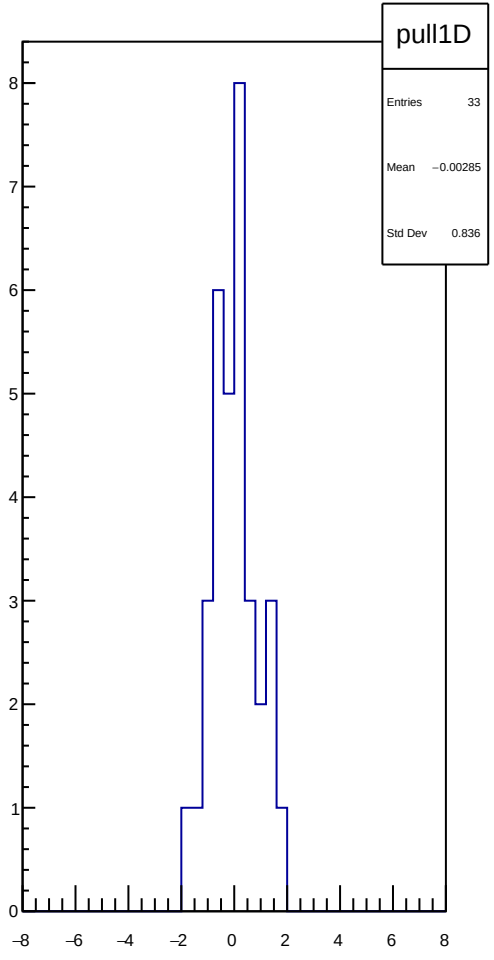

pull1D
Entries 33
Mean 0.007194
Std Dev 0.2973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

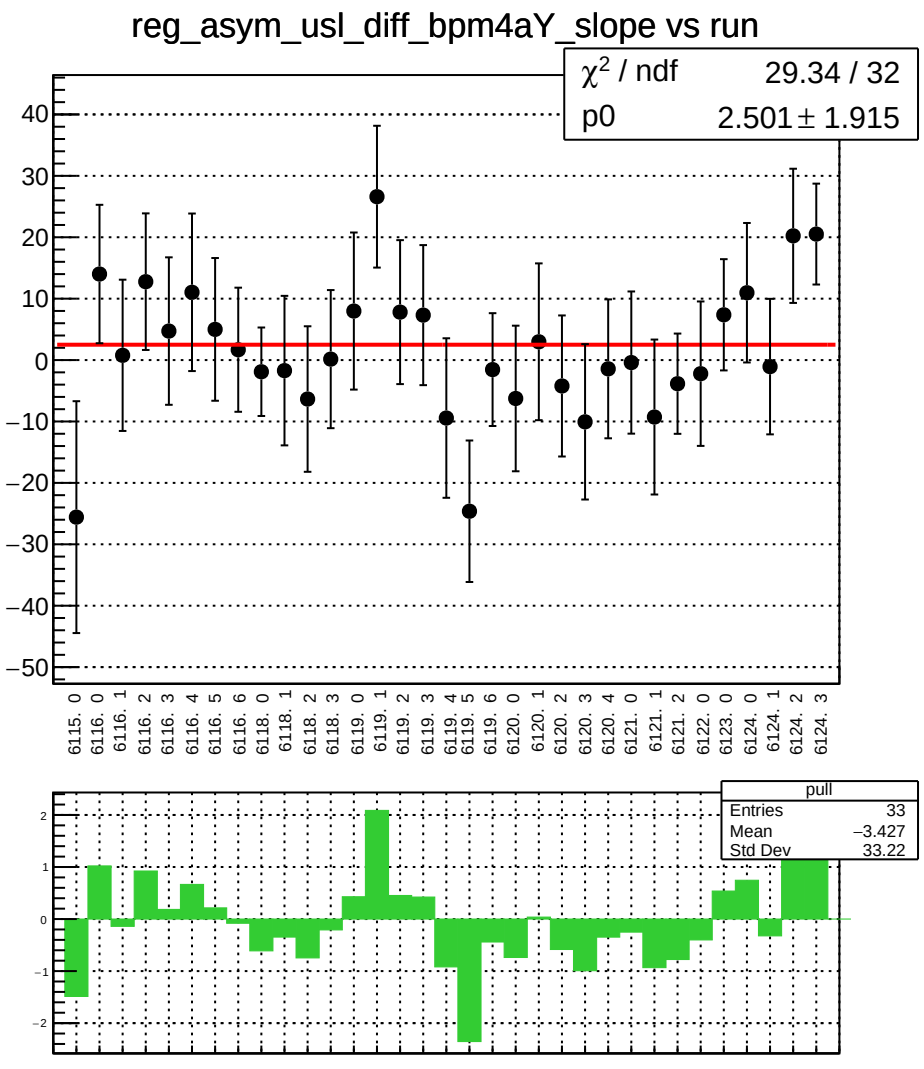

reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 28.86 / 32
p0 51.31 ± 0.535
65
60
55
50
45
40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 43.34
Std Dev 29.02
4
3
2
1
0
−1

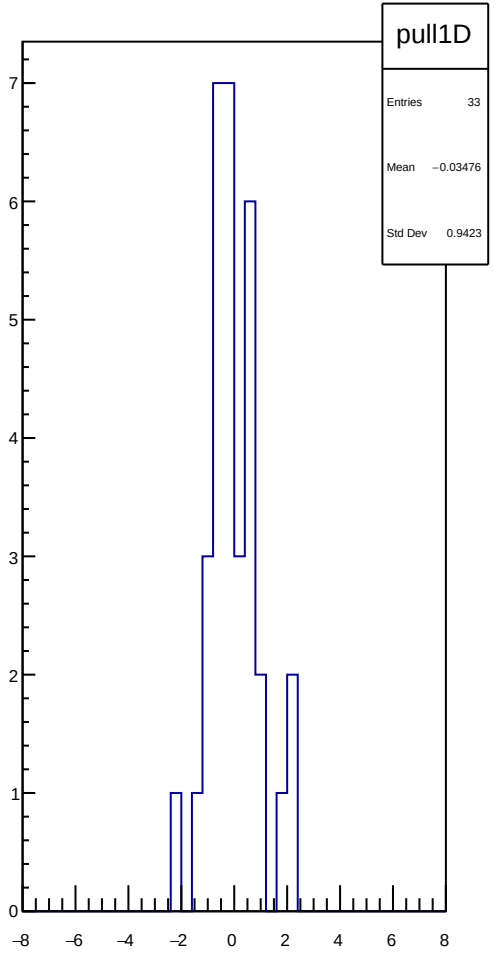

pull1D
Entries 33
Mean −0.08382
Std Dev 0.9314
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

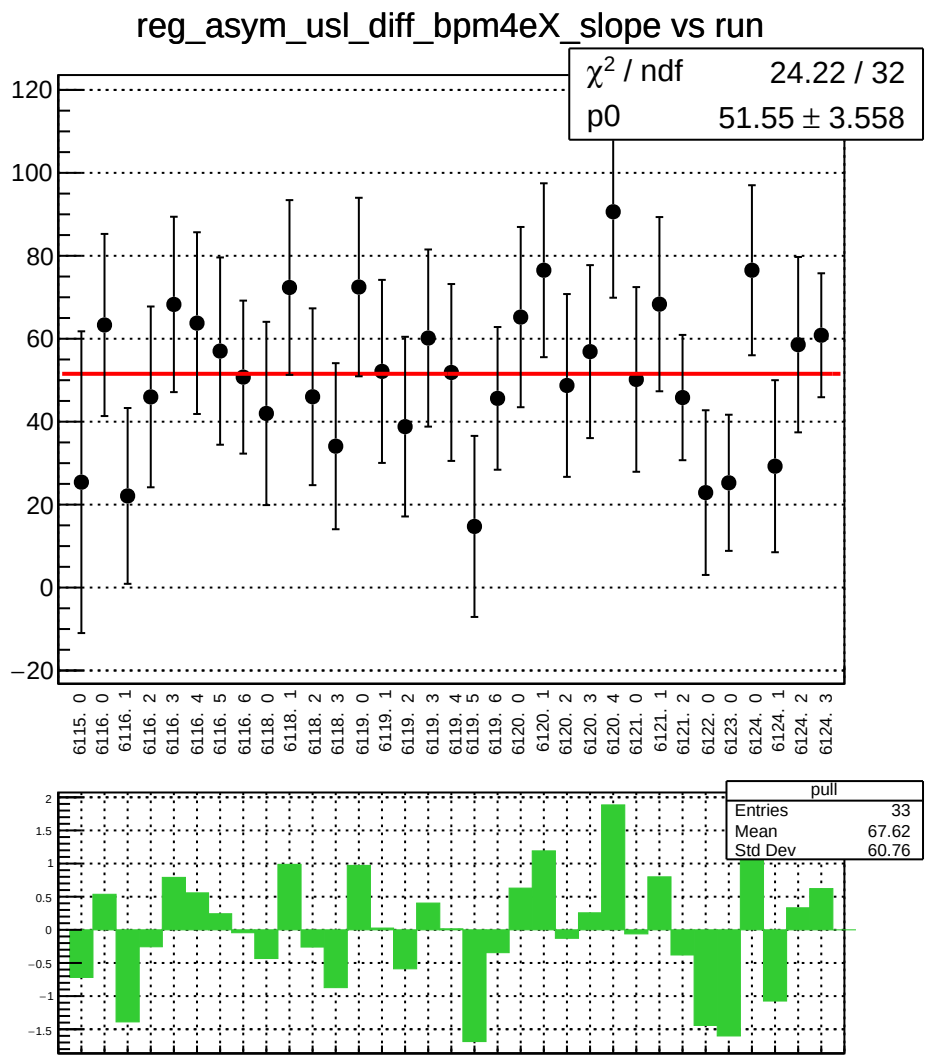

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 8.163 / 32
p0 −0.8878 ± 0.04093
−0.4
−0.6
−0.8
−1
−1.2
−1.4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −2.405e+04
Std Dev 2.408e+04
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −3.9e−05
Std Dev 0.4974
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

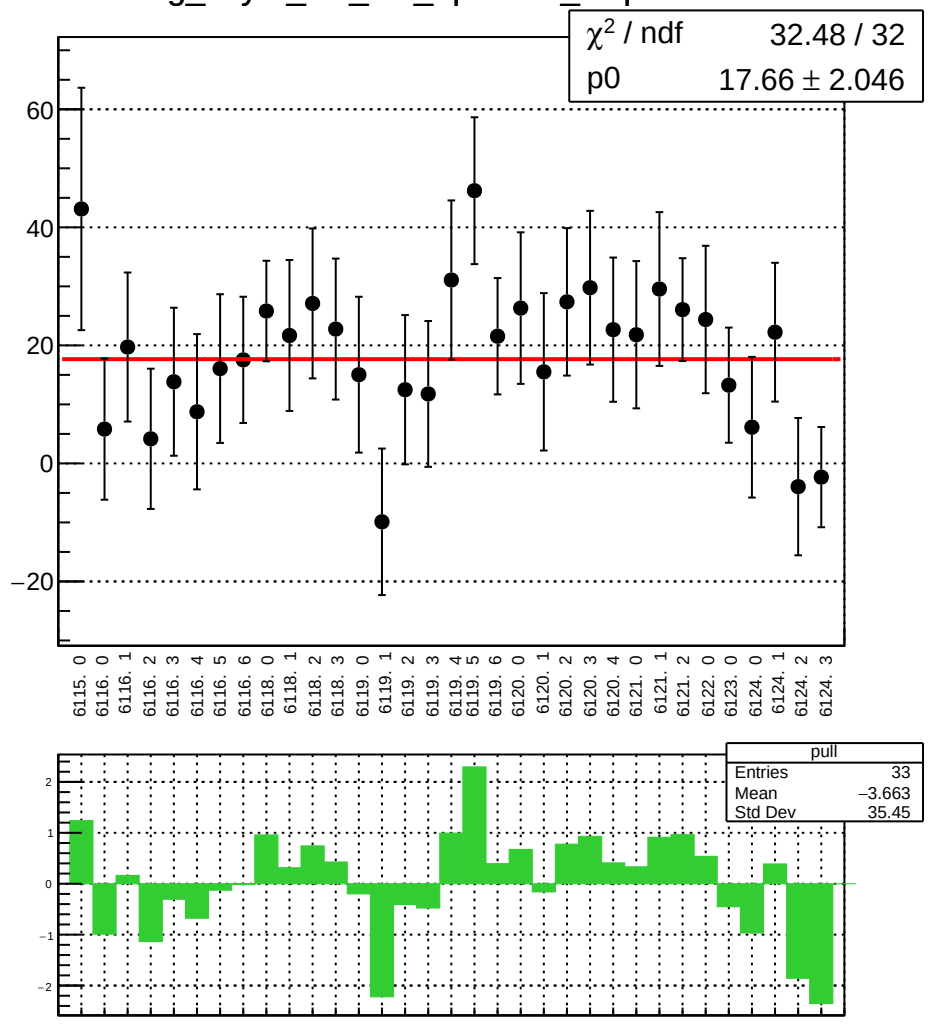

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 23.06 / 32
p0 −84.77 ± 3.058
−20
−40
−60
−80
−100
−120
−140
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 113.7
Std Dev 108.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

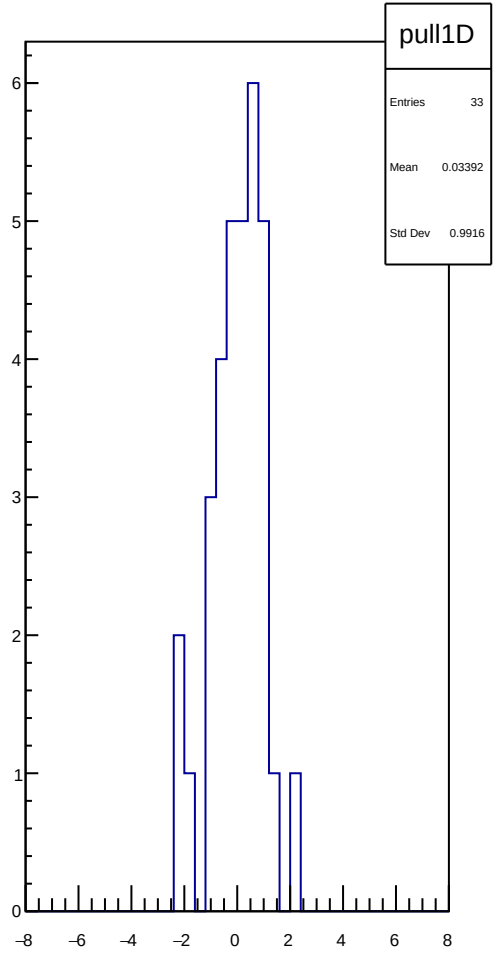

pull1D
Entries 33
Mean −0.00285
Std Dev 0.836
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

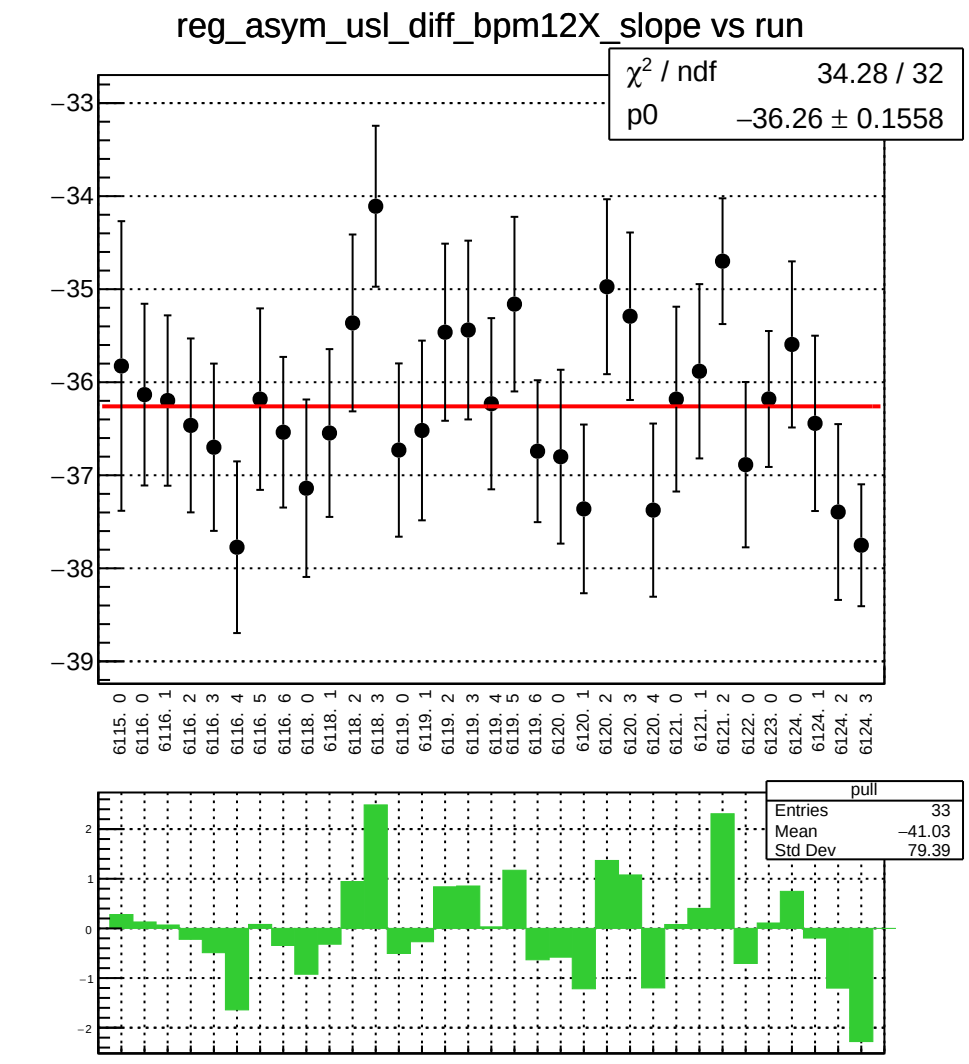

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 29.34 / 32
p0 2.501 ± 1.915
pull
Entries 33
Mean −3.427
Std Dev 33.22

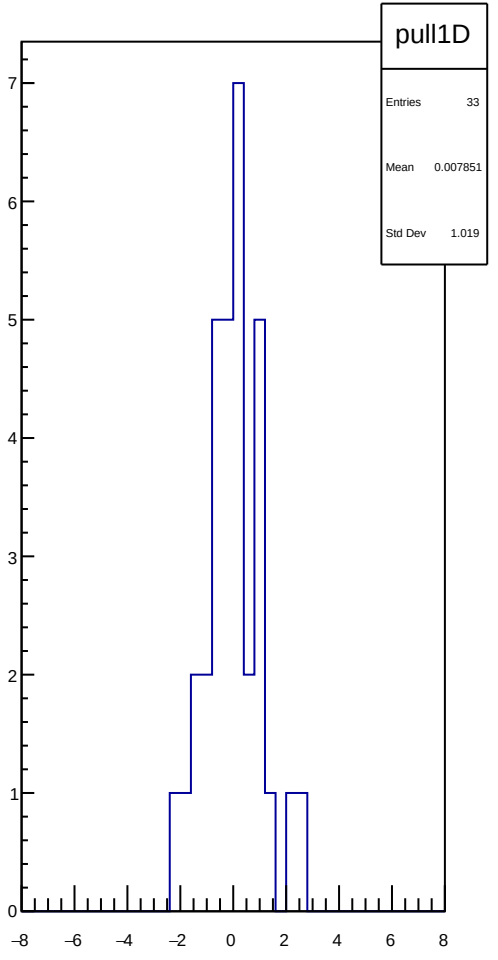

pull1D
Entries 33
Mean −0.03476
Std Dev 0.9423

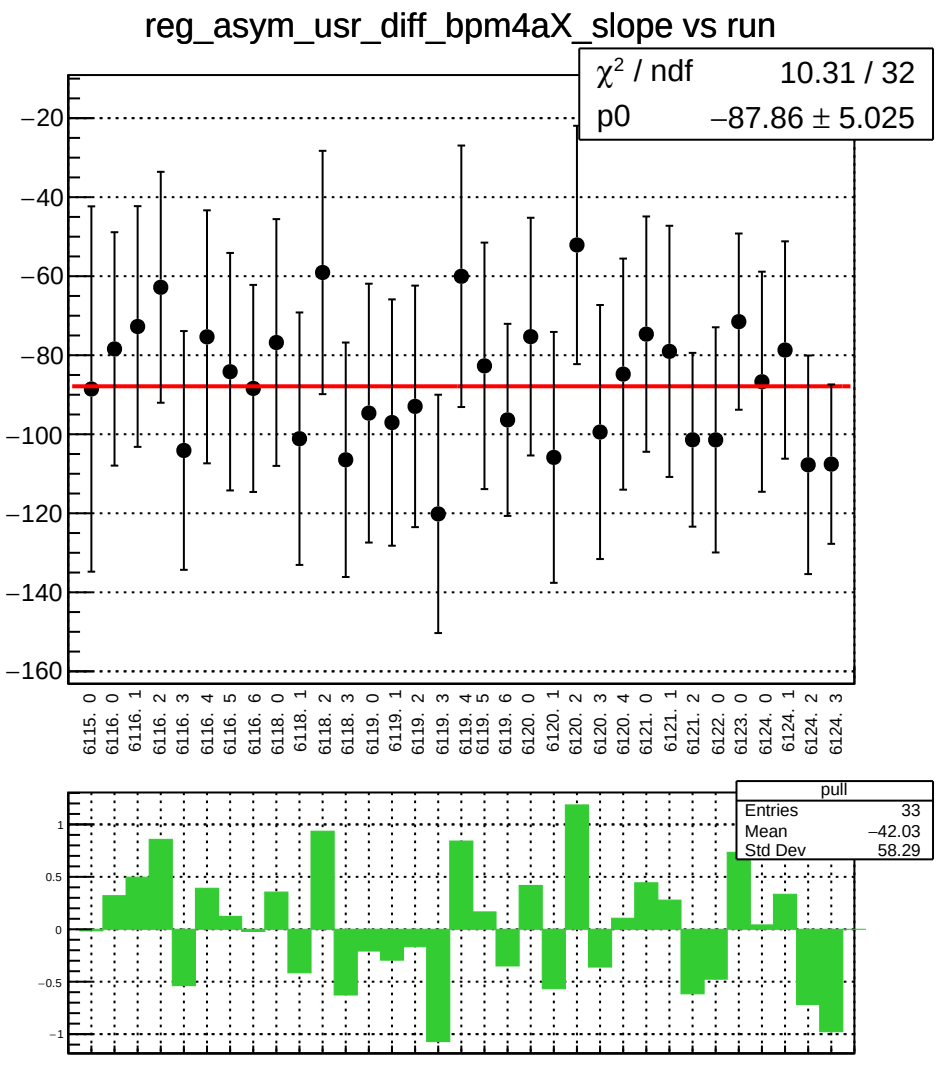

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 24.22 / 32
p0 51.55 ± 3.558
120
100
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 67.62
Std Dev 60.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005789
Std Dev 0.8567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

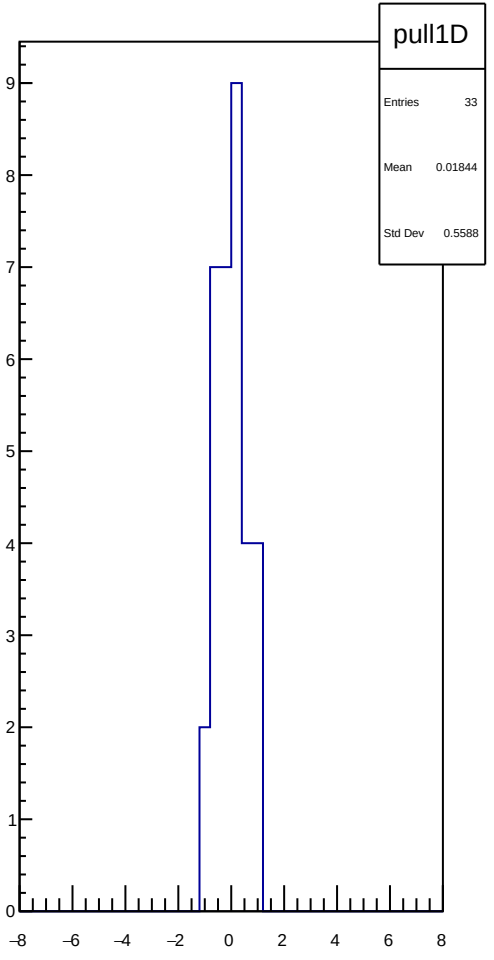

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.48 / 32
p0 17.66 ± 2.046
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −3.663
Std Dev 35.45
2
1
0
−1
−2

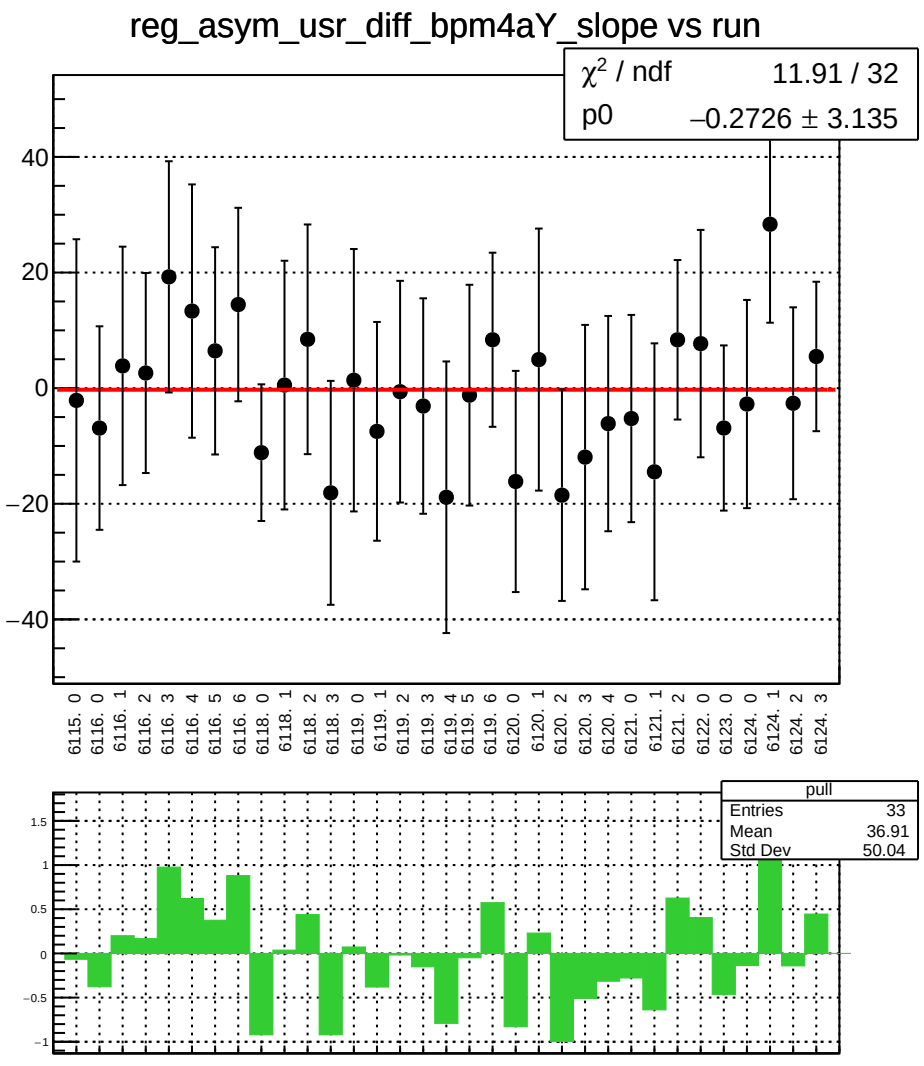

pull1D
Entries 33
Mean 0.03392
Std Dev 0.9916
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

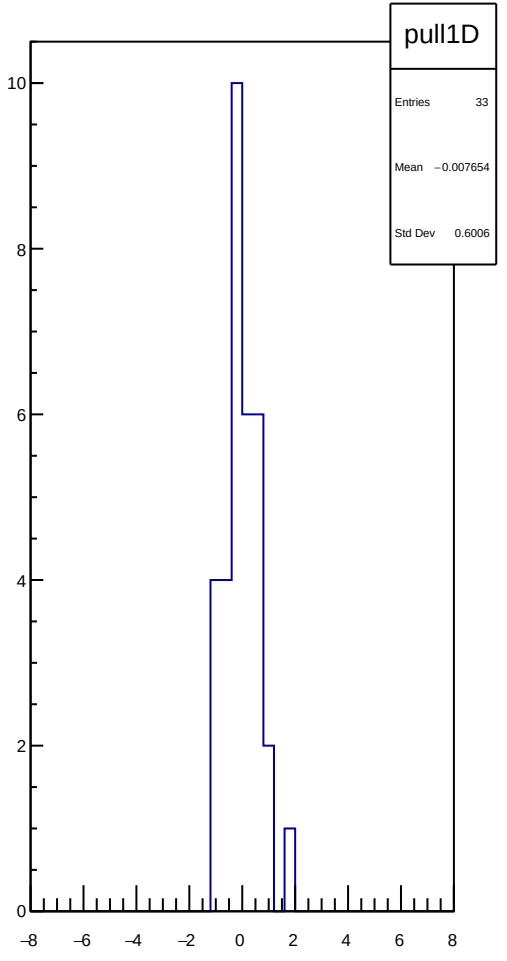

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 34.28 / 32
p0 −36.26 ± 0.1558
−33
−34
−35
−36
−37
−38
−39
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −41.03
Std Dev 79.39
2
1
0
−1
−2

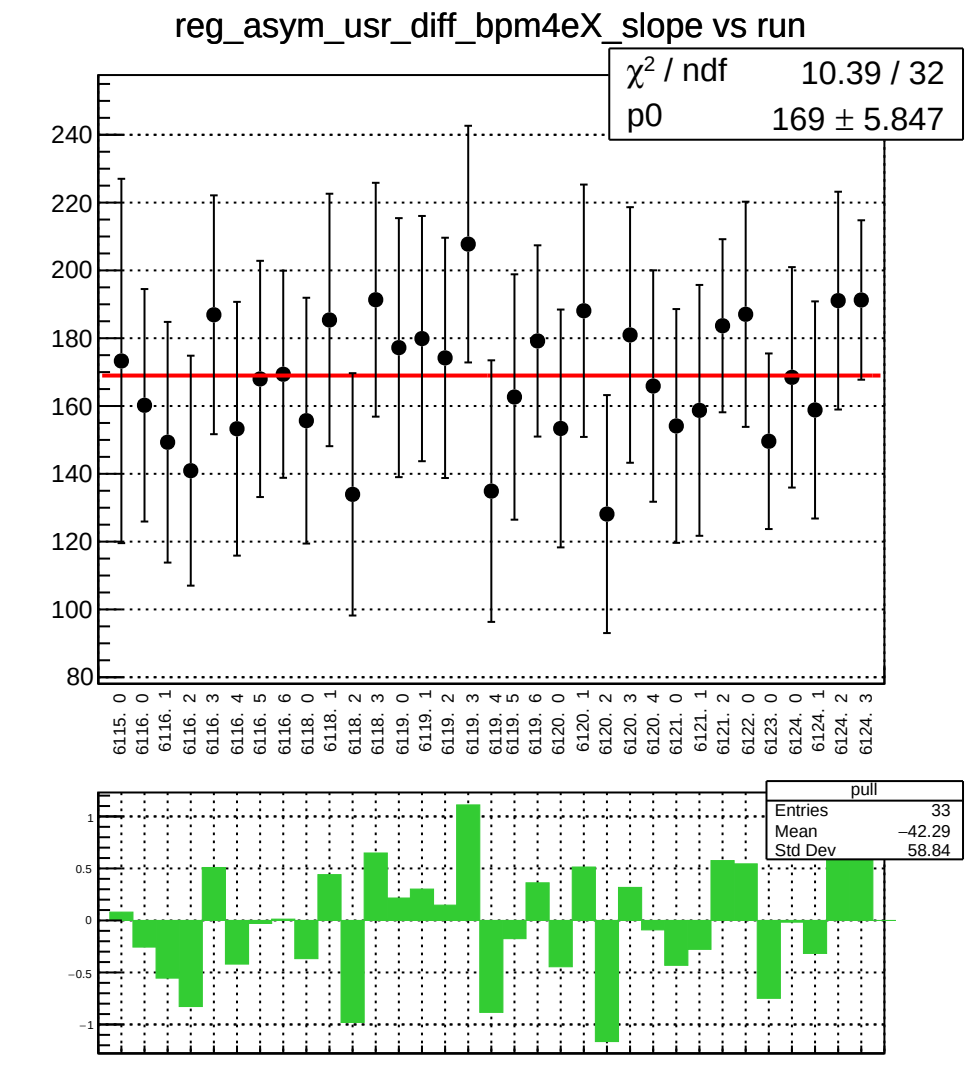

pull1D
Entries 33
Mean 0.007851
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

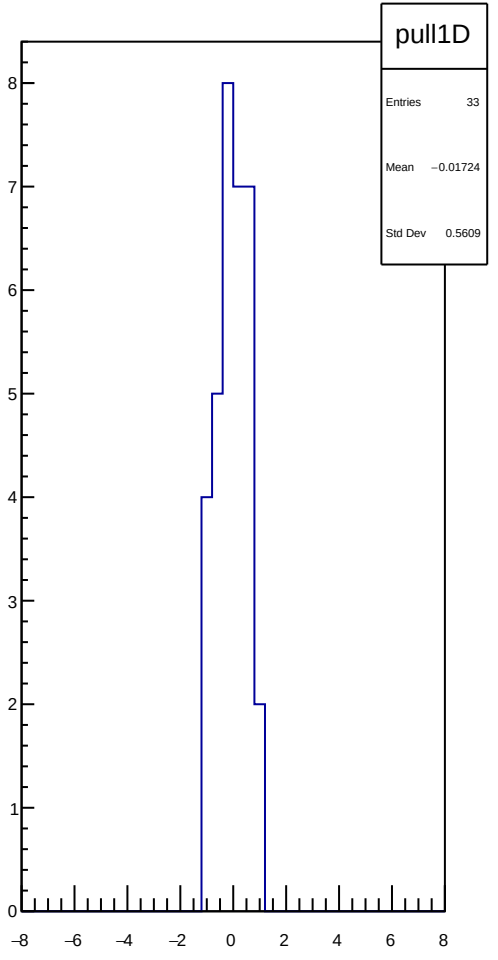

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 10.31 / 32
p0 −87.86 ± 5.025
−20
−40
−60
−80
−100
−120
−140
−160
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −42.03
Std Dev 58.29
1
0.5
0
−0.5
−1

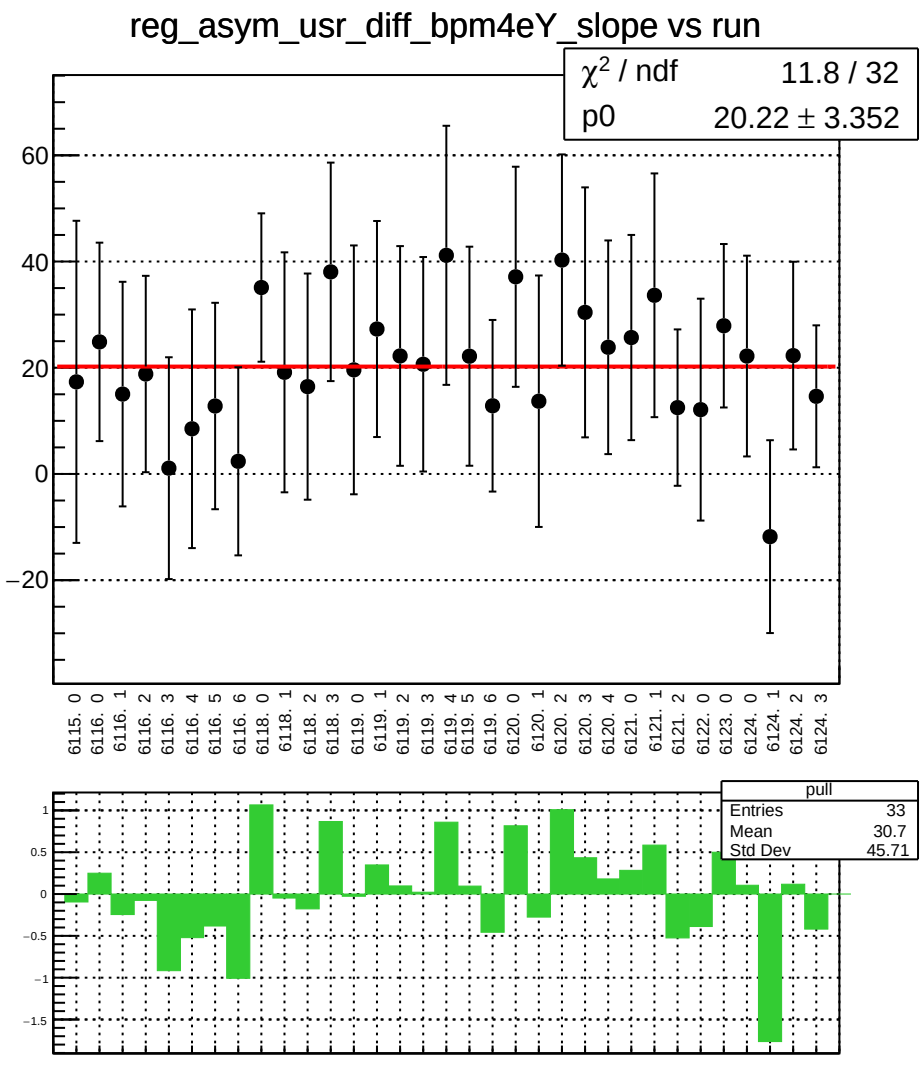

pull1D
Entries 33
Mean 0.01844
Std Dev 0.5588
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

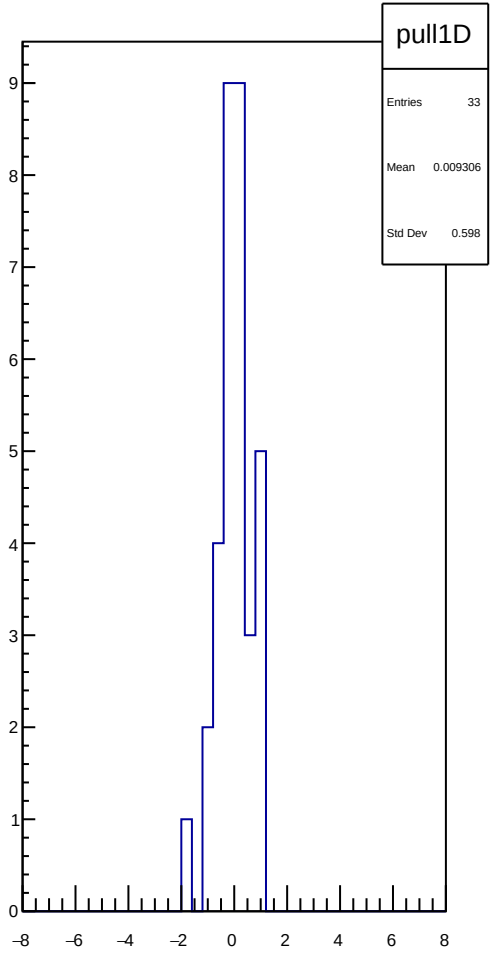

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 11.91 / 32
p0 −0.2726 ± 3.135
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 36.91
Std Dev 50.04
1.5
1
0.5
0
−0.5
−1

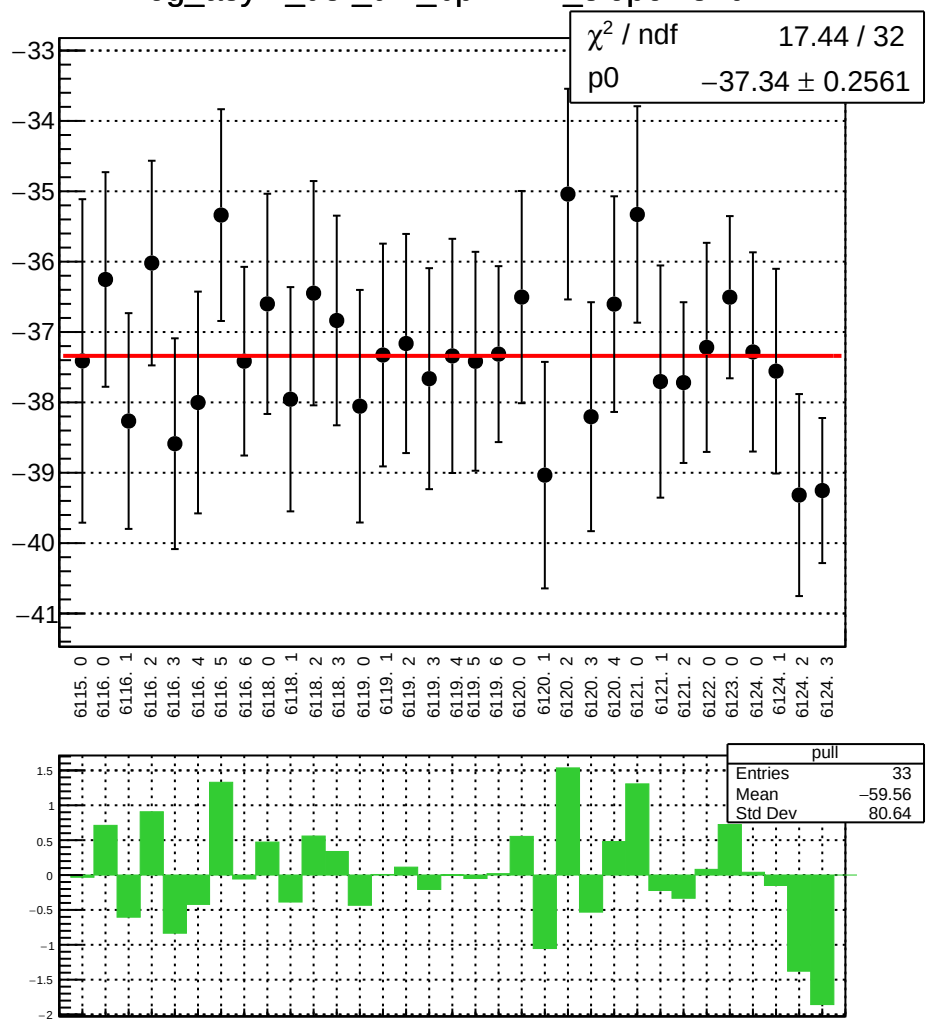

pull1D
Entries 33
Mean −0.007654
Std Dev 0.6006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

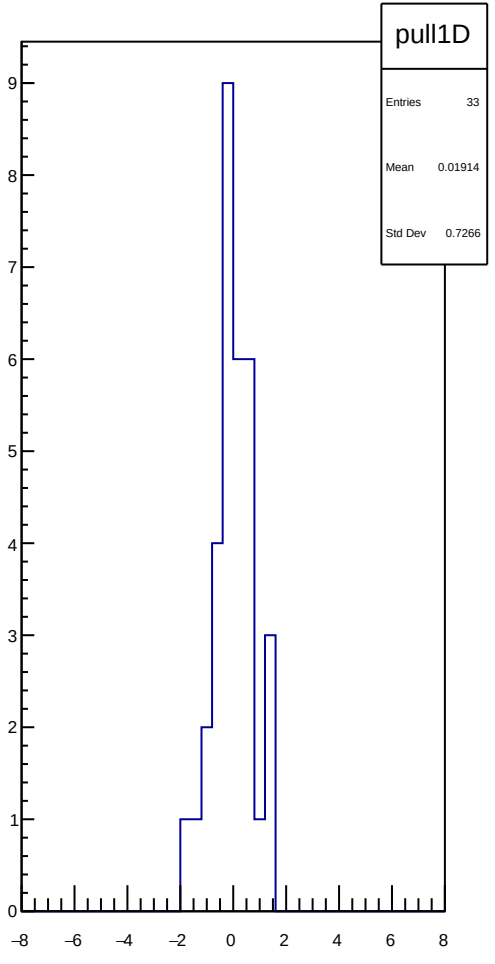

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 10.39 / 32
p0 169 ± 5.847
240
220
200
180
160
140
120
100
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −42.29
Std Dev 58.84
1
0.5
0
−0.5
−1

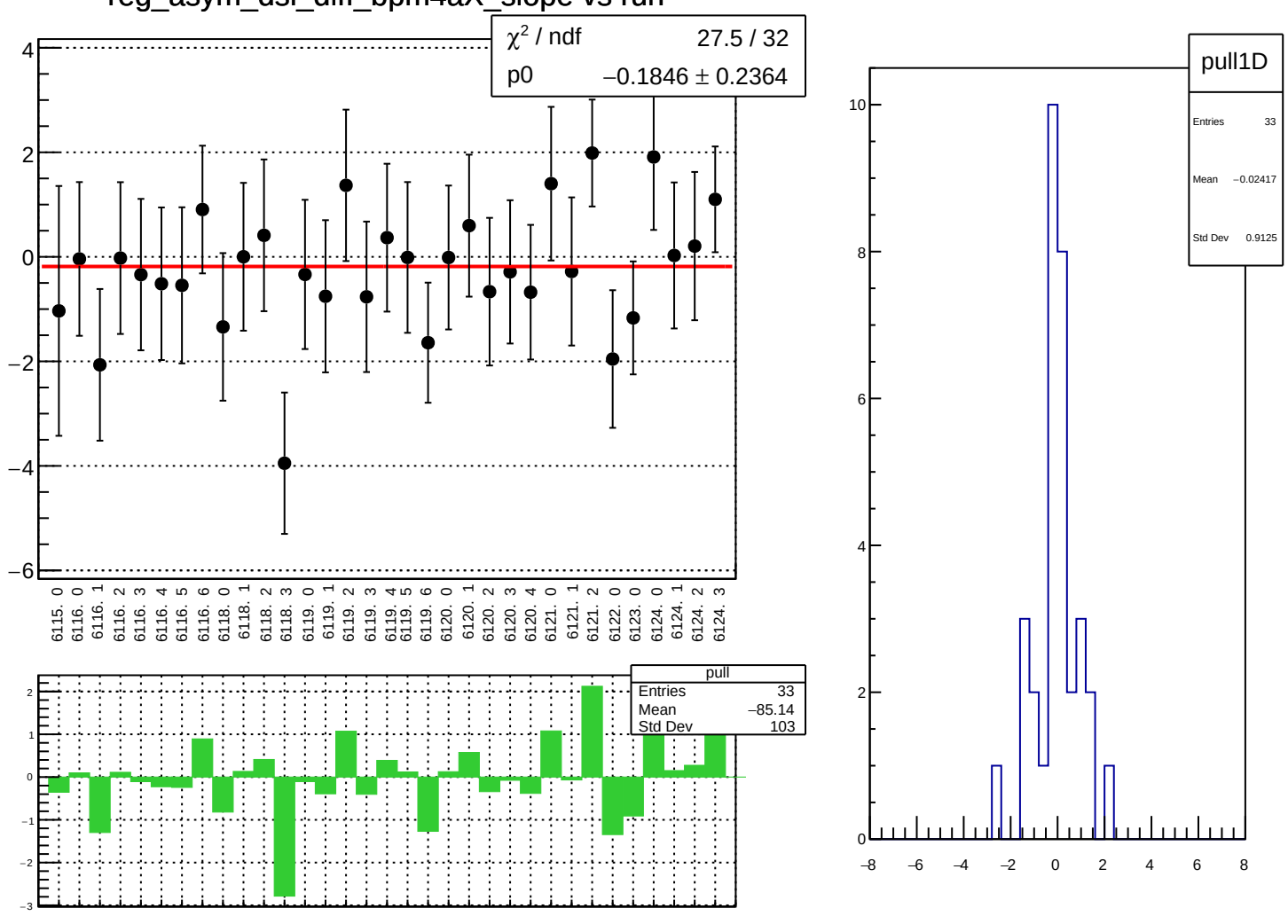

pull1D
Entries 33
Mean −0.01724
Std Dev 0.5609
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

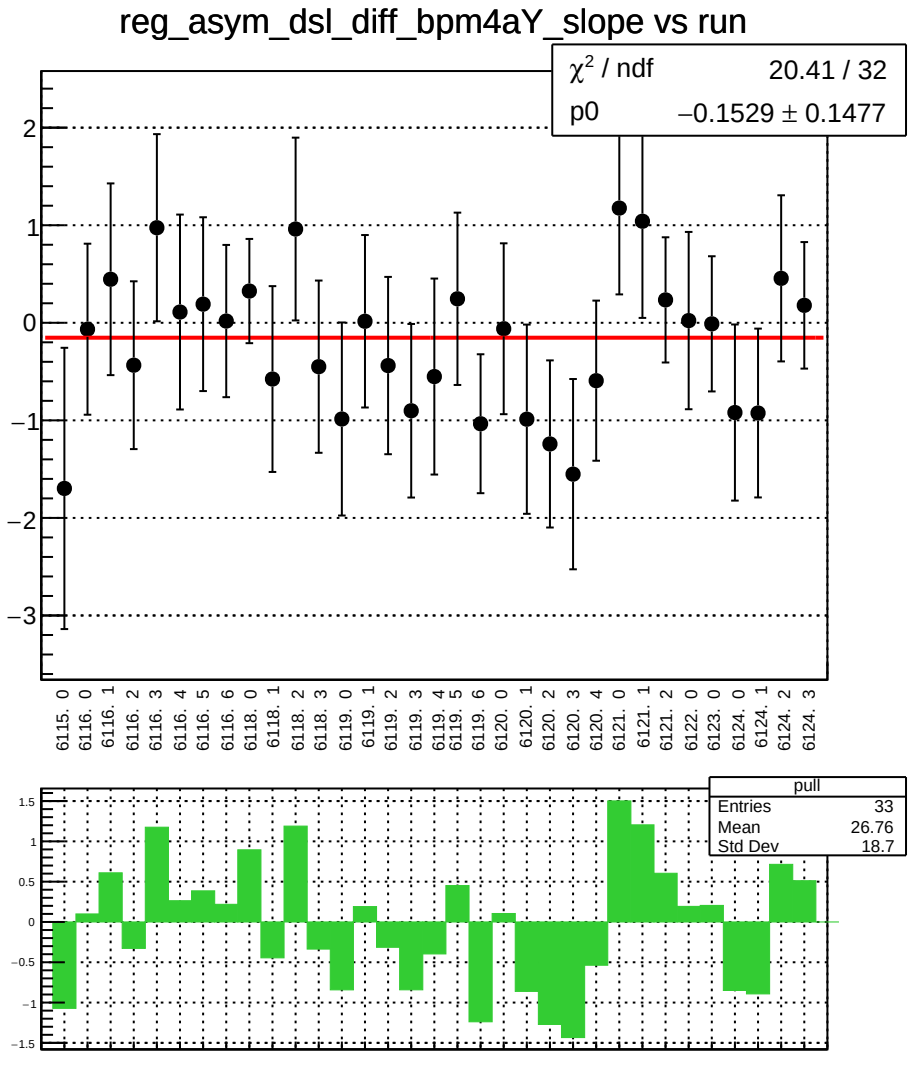

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 11.8 / 32
p0 20.22 ± 3.352
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 30.7
Std Dev 45.71
1
0.5
0
−0.5
−1
−1.5

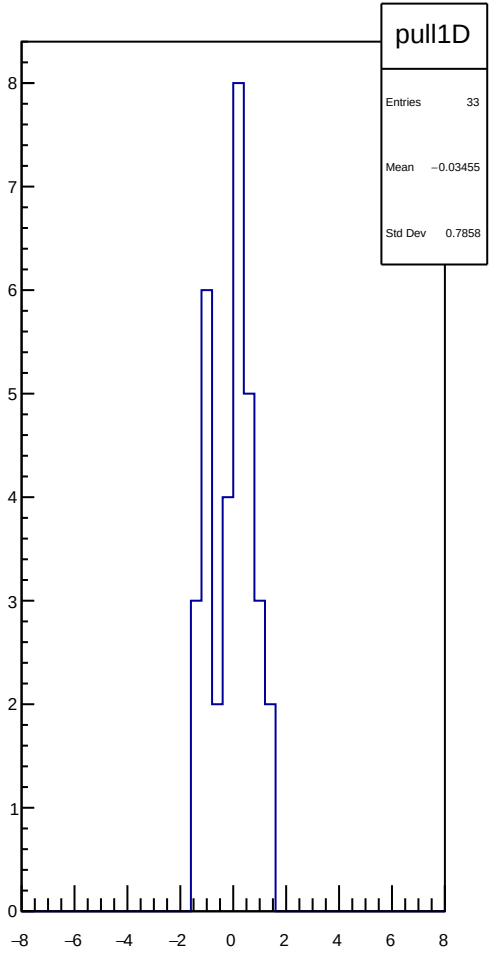

pull1D
Entries 33
Mean 0.009306
Std Dev 0.598
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

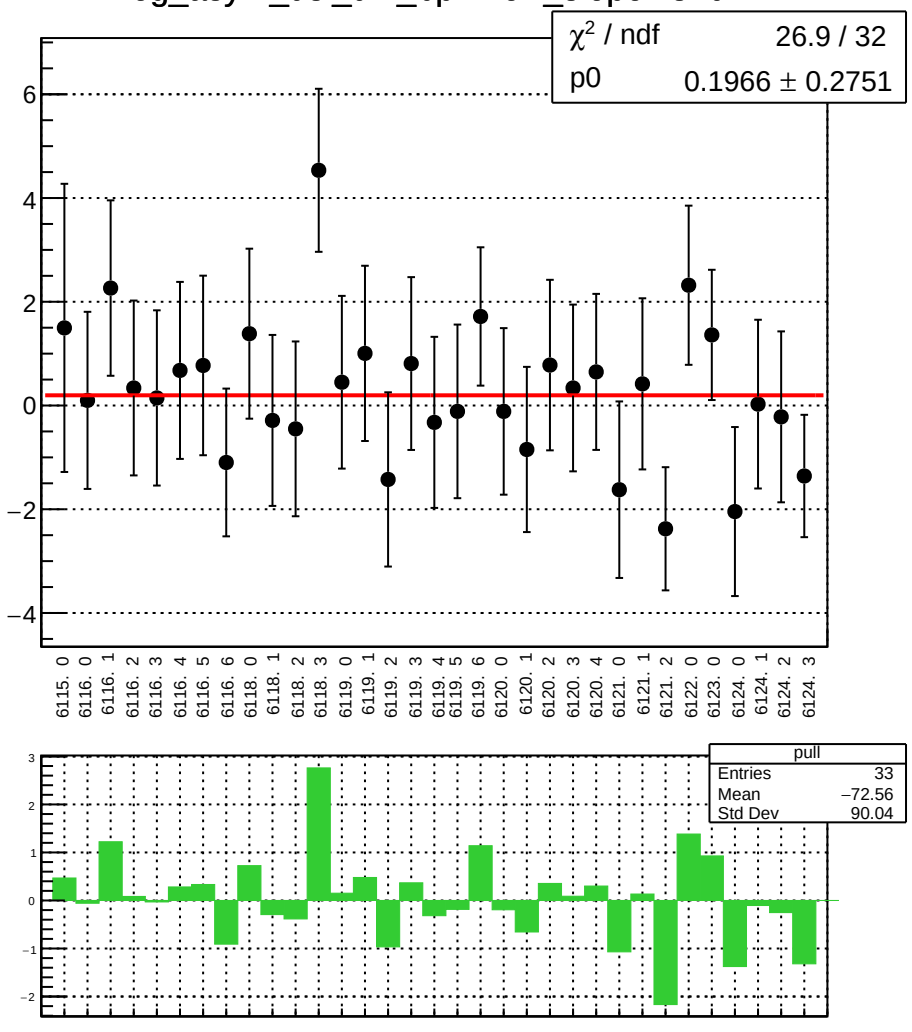

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 17.44 / 32
p0 −37.34 ± 0.2561
pull
Entries 33
Mean −59.56
Std Dev 80.64

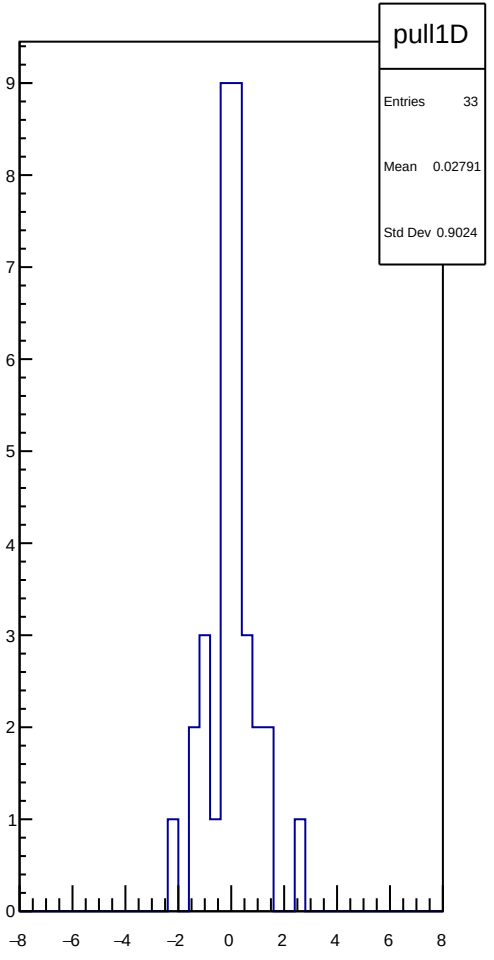

pull1D
Entries 33
Mean 0.01914
Std Dev 0.7266

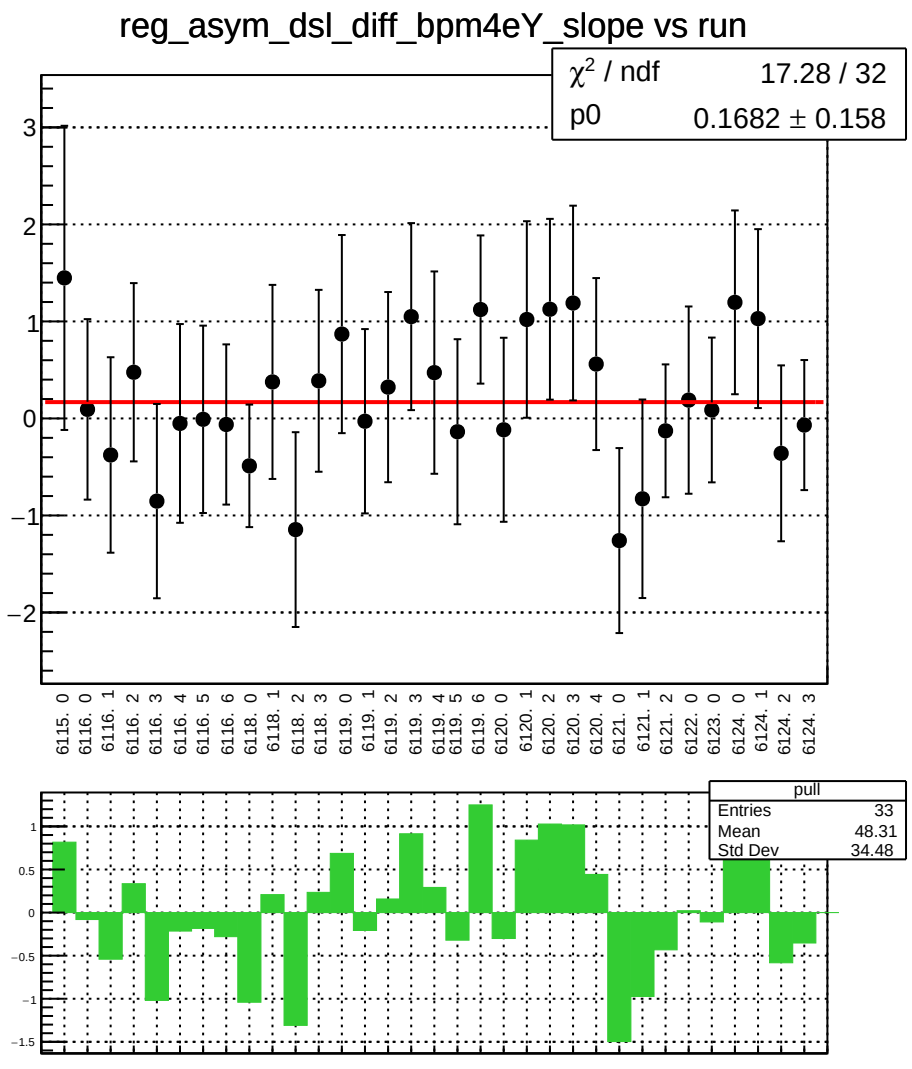

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 27.5 / 32
p0 −0.1846 ± 0.2364
4
2
0
−2
−4
−6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −85.14
Std Dev 103
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.02417
Std Dev 0.9125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

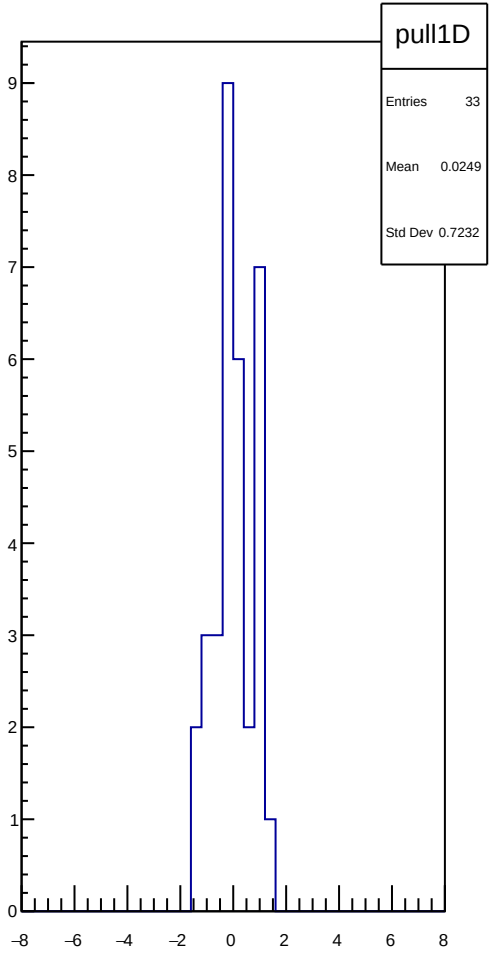

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 20.41 / 32
p0 −0.1529 ± 0.1477
2
1
0
−1
−2
−3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 26.76
Std Dev 18.7
1.5
1
0.5
0
−0.5
−1
−1.5

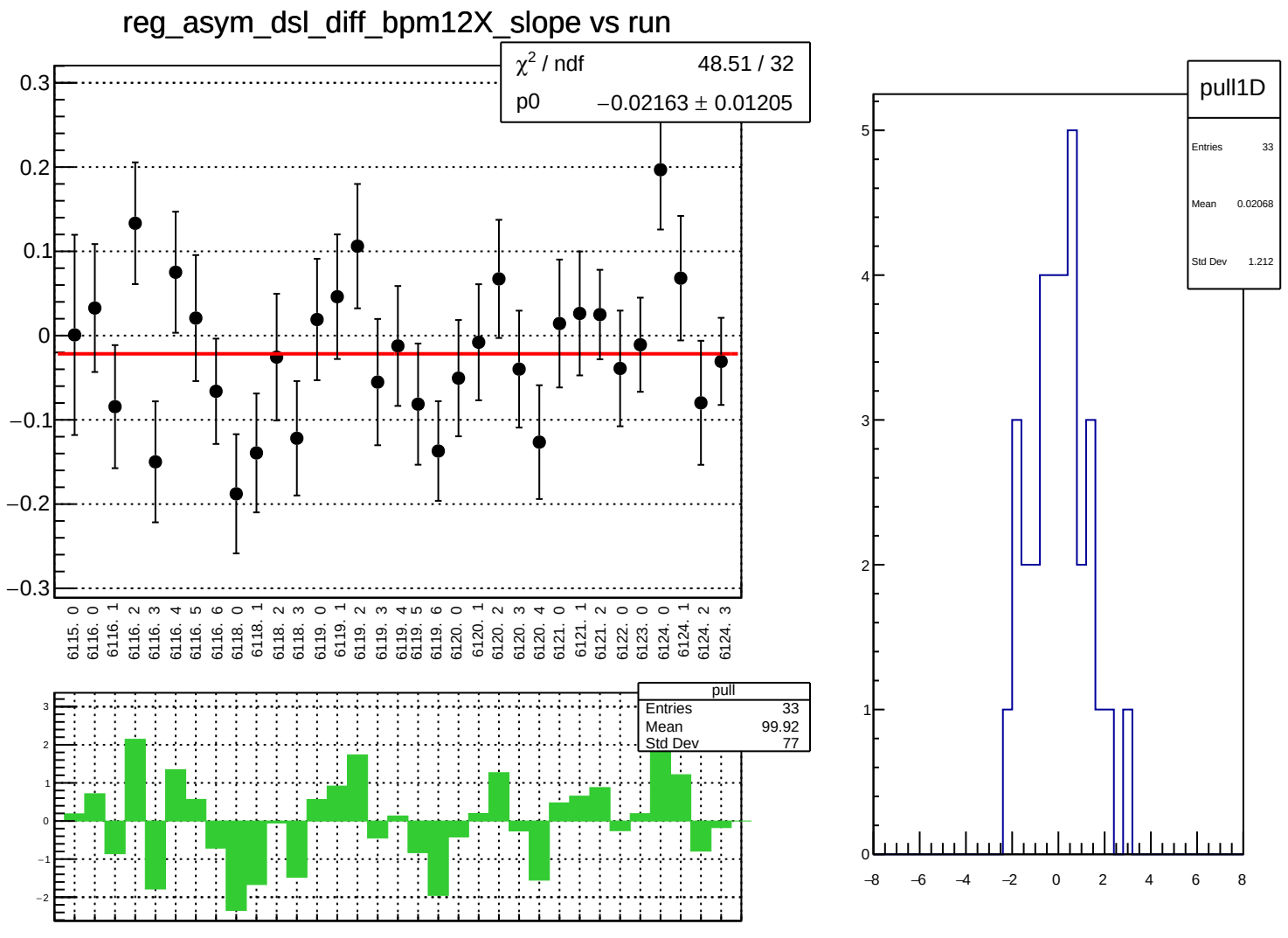

pull1D
Entries 33
Mean −0.03455
Std Dev 0.7858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

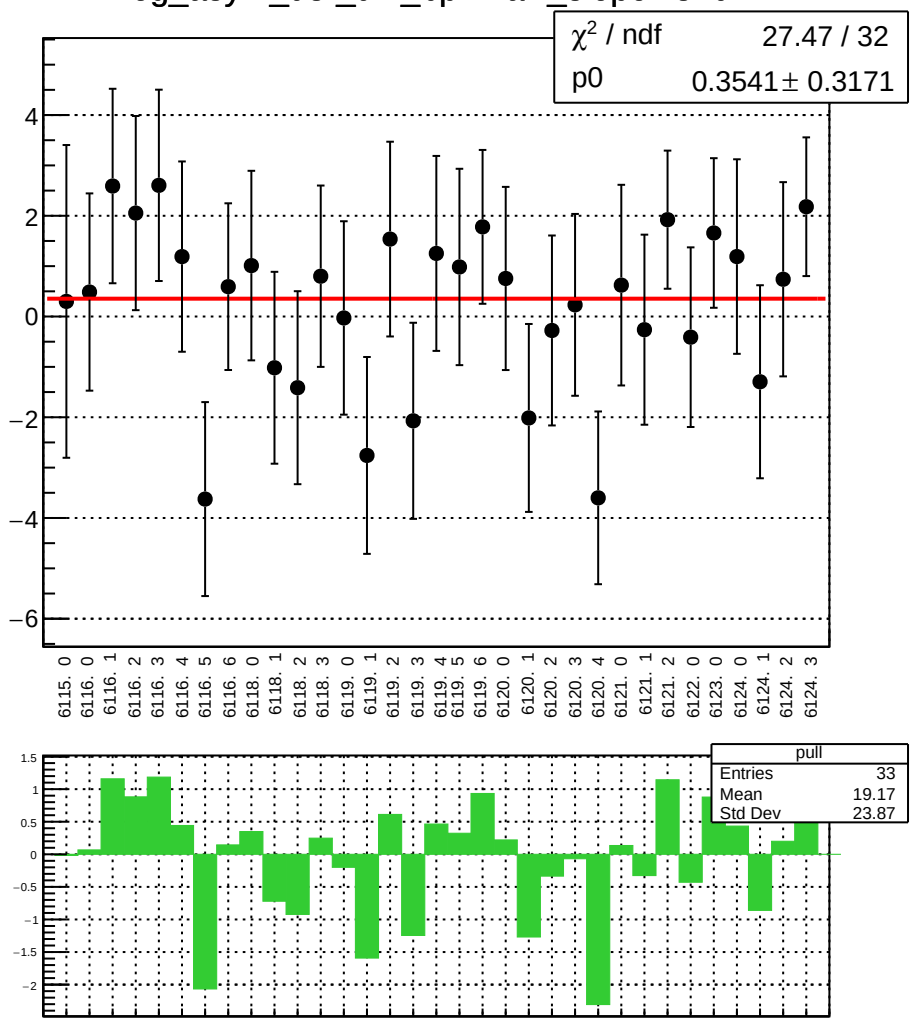

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 26.9 / 32
p0 0.1966 ± 0.2751
6
4
2
0
−2
−4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −72.56
Std Dev 90.04
3
2
1
0
−1
−2

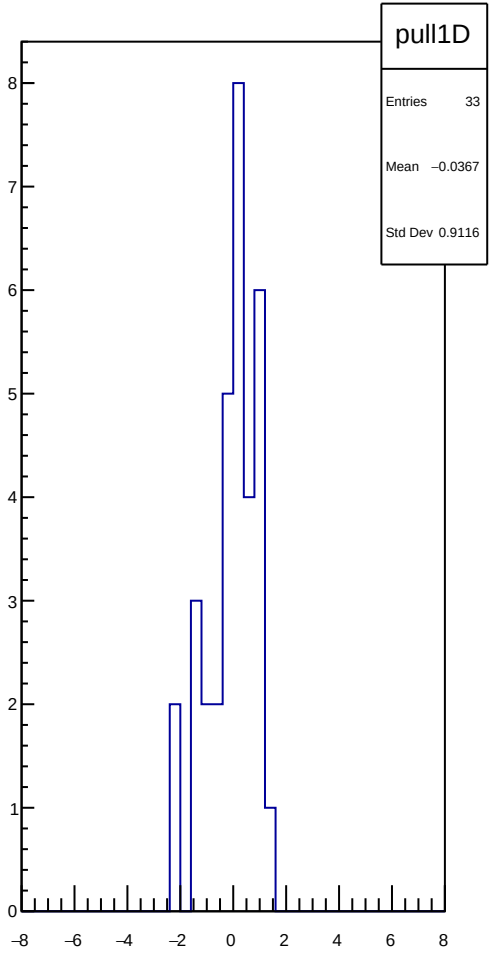

pull1D
Entries 33
Mean 0.02791
Std Dev 0.9024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

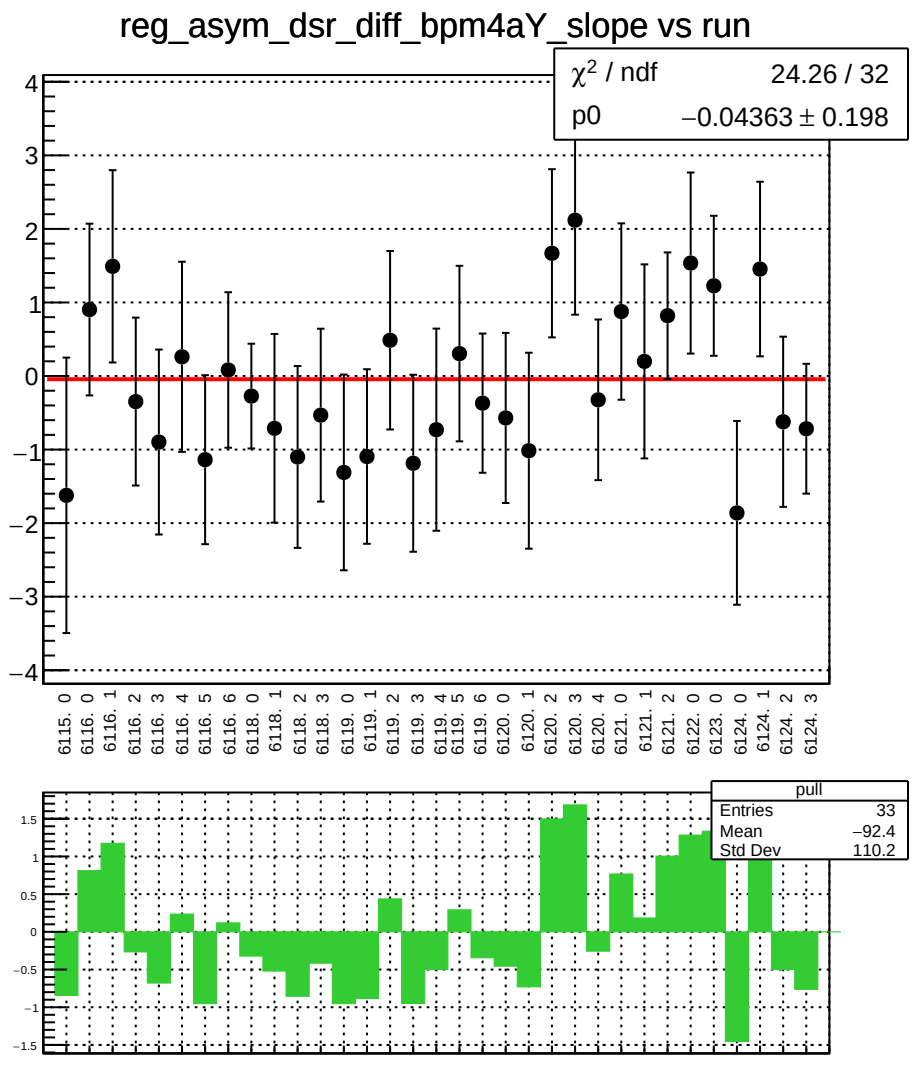

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 17.28 / 32
p0 0.1682 ± 0.158
3
2
1
0
−1
−2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 48.31
Std Dev 34.48
1
0.5
0
−0.5
−1
−1.5

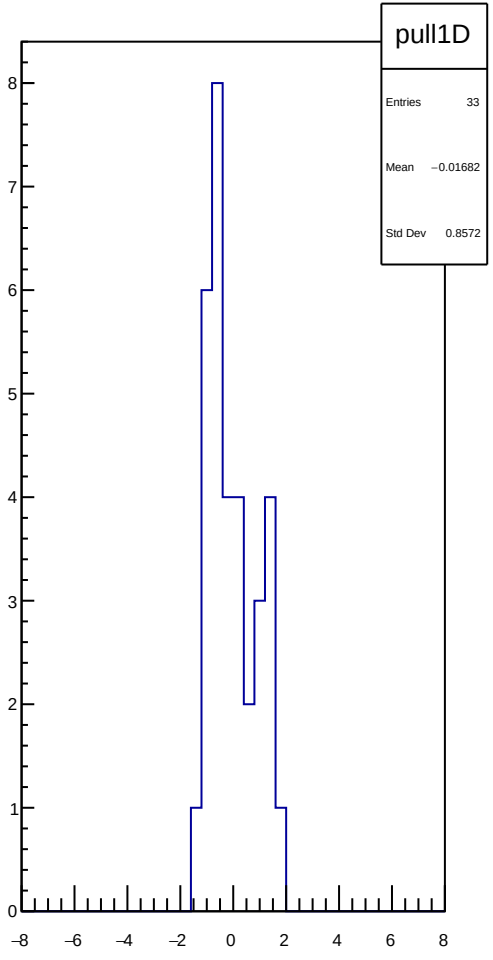

pull1D
Entries 33
Mean 0.0249
Std Dev 0.7232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

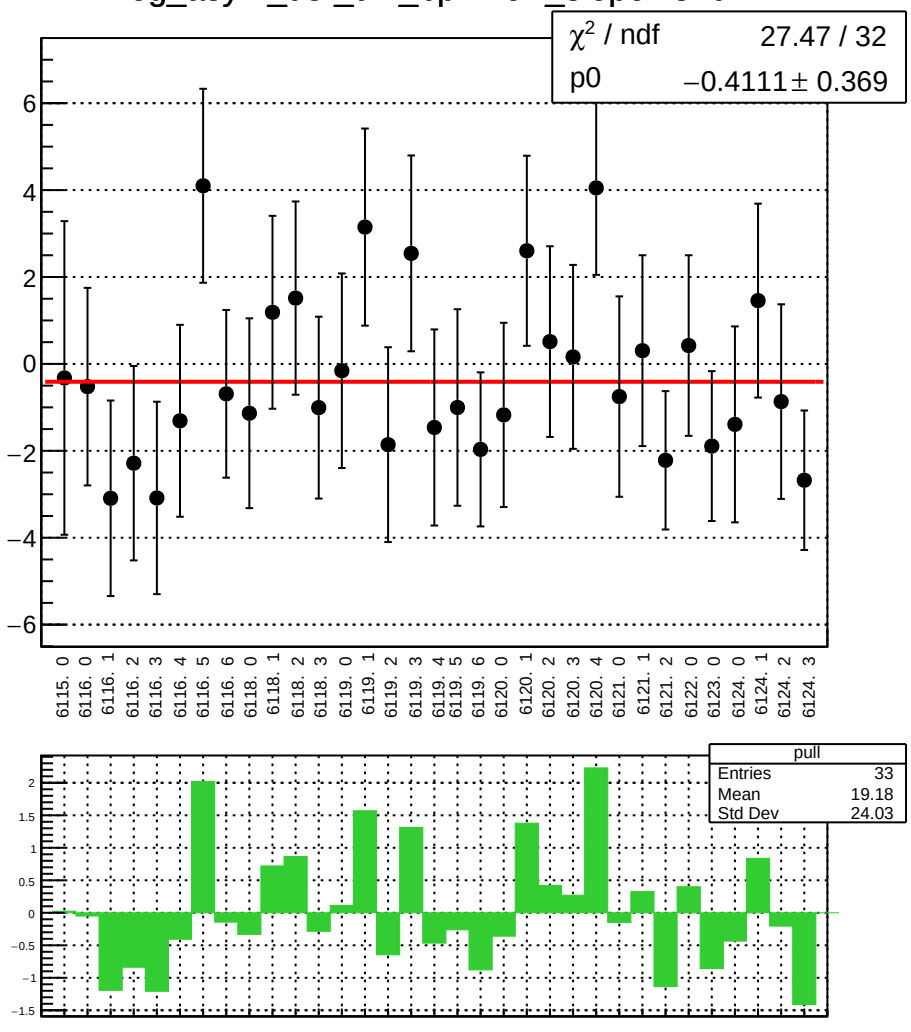

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 48.51 / 32
p0 −0.02163 ± 0.01205
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 99.92
Std Dev 77
pull1D
Entries 33
Mean 0.02068
Std Dev 1.212

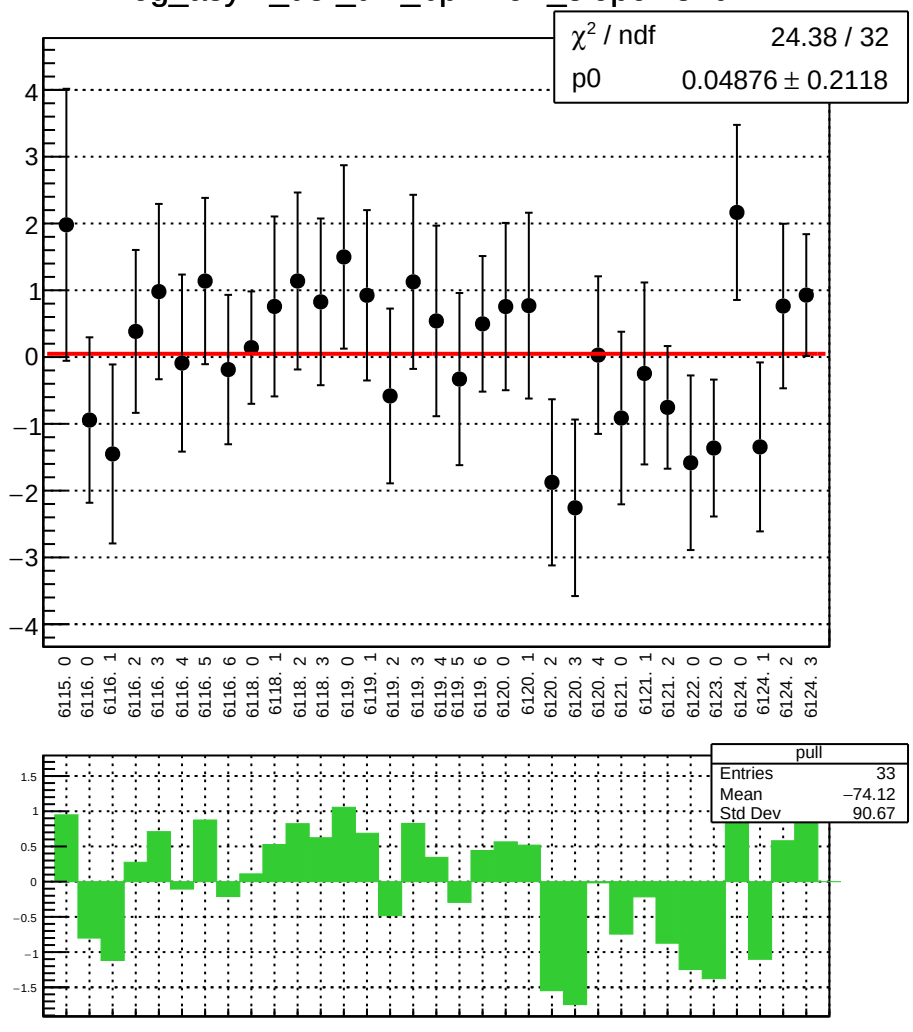

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 27.47 / 32
p0 0.3541 ± 0.3171
pull
Entries 33
Mean 19.17
Std Dev 23.87

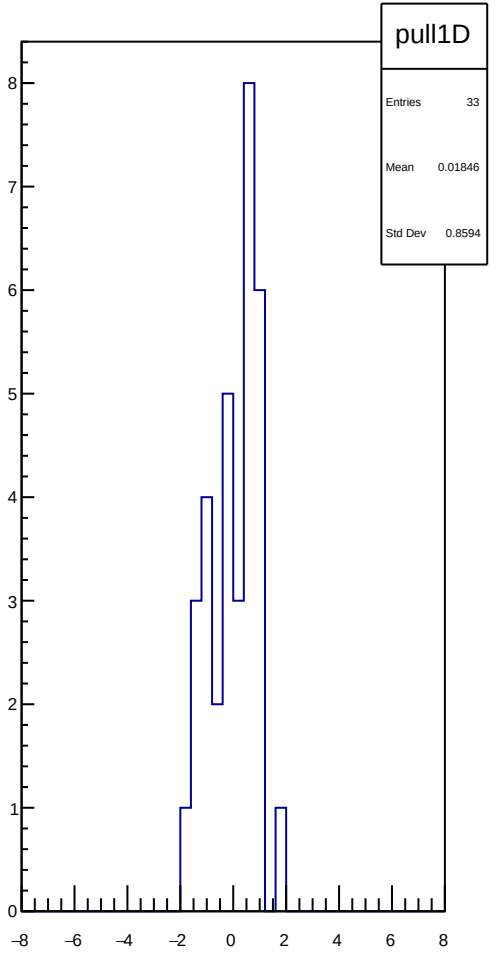

pull1D
Entries 33
Mean −0.0367
Std Dev 0.9116

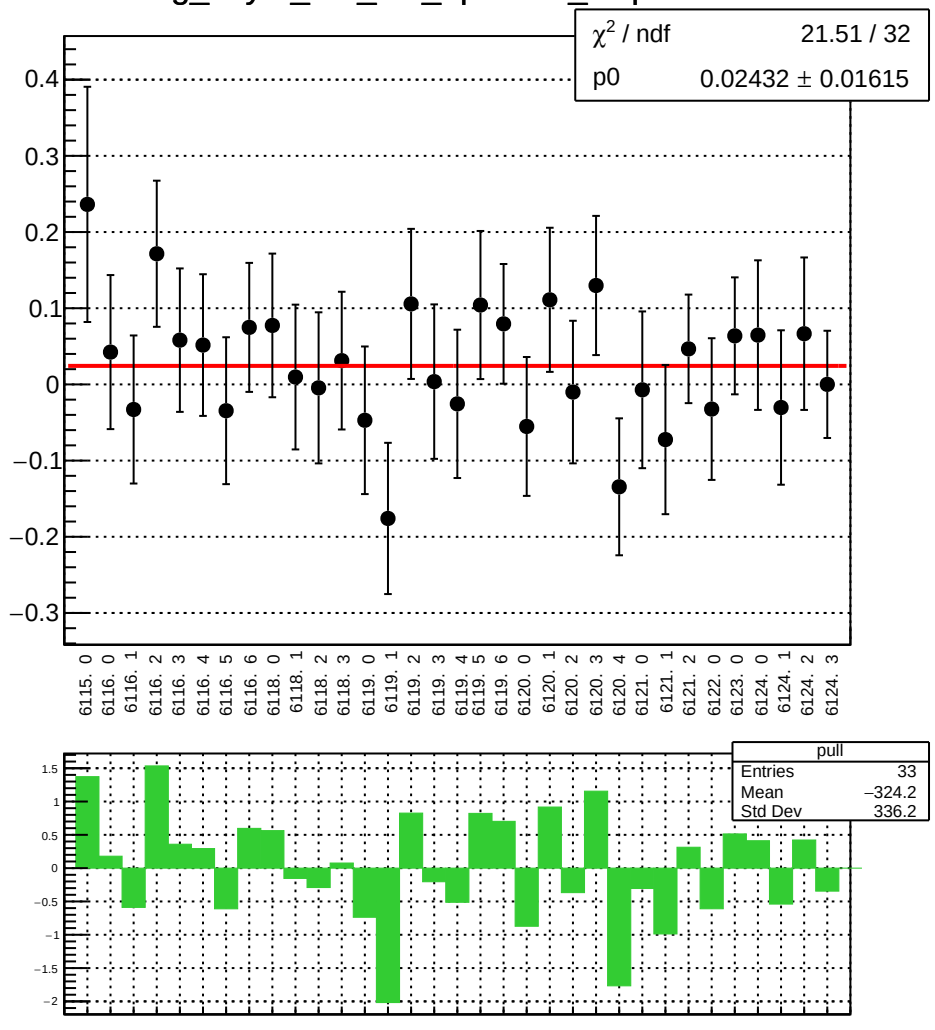

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 24.26 / 32
p0 −0.04363 ± 0.198
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −92.4
Std Dev 110.2

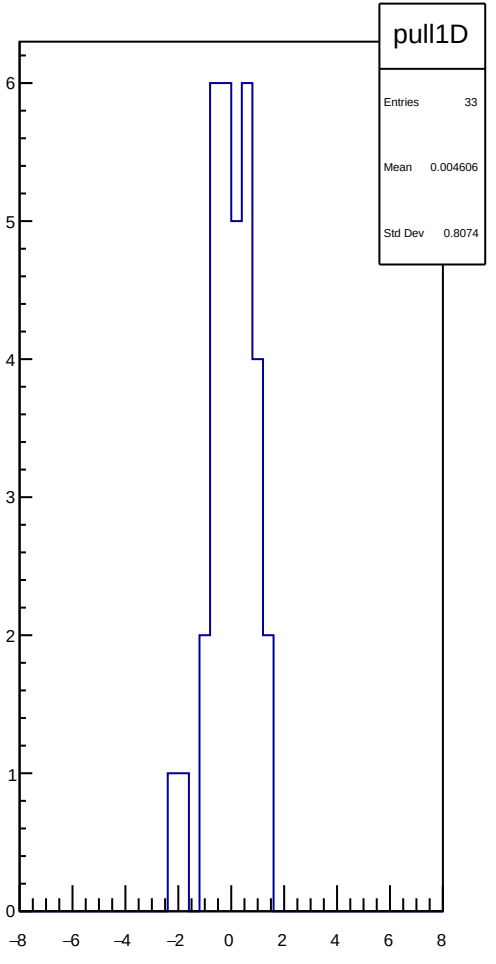

pull1D
Entries 33
Mean −0.01682
Std Dev 0.8572

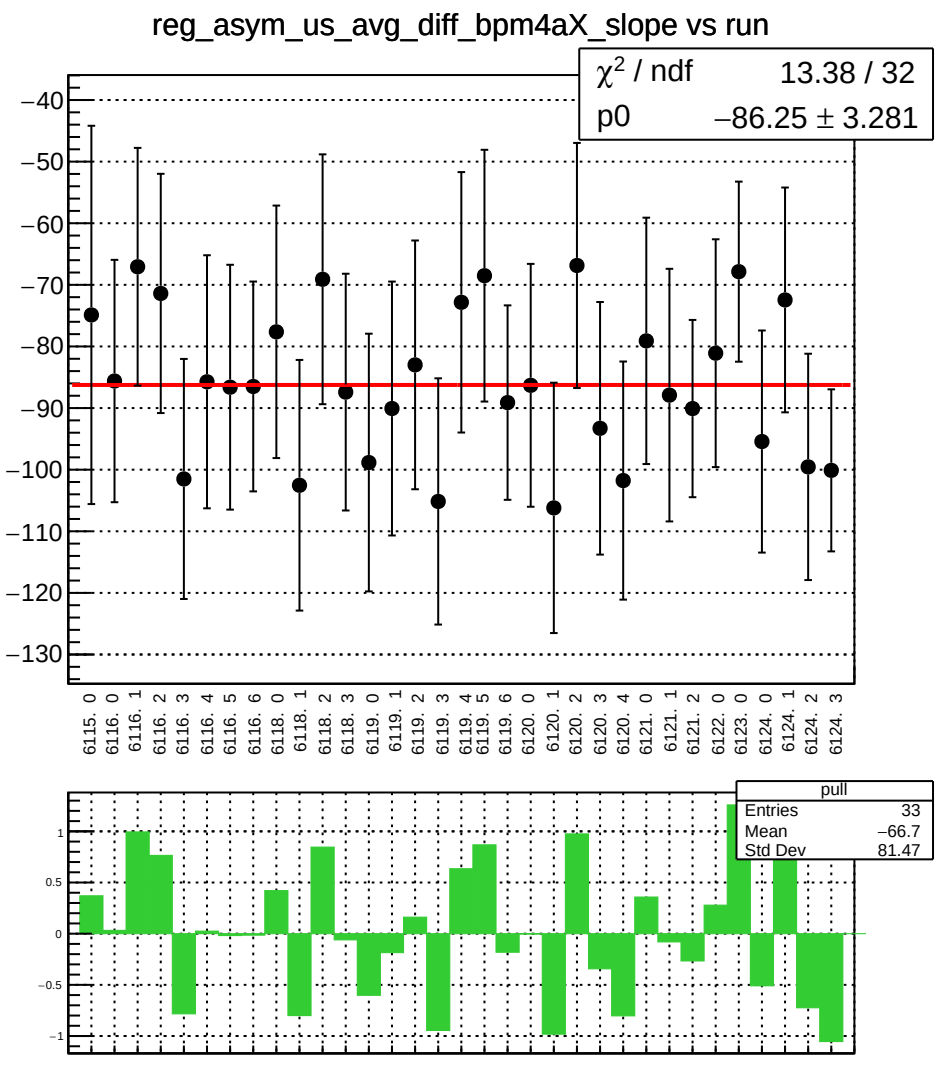

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 27.47 / 32
p0 −0.4111 ± 0.369
6
4
2
0
−2
−4
−6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 19.18
Std Dev 24.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03739
Std Dev 0.9116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

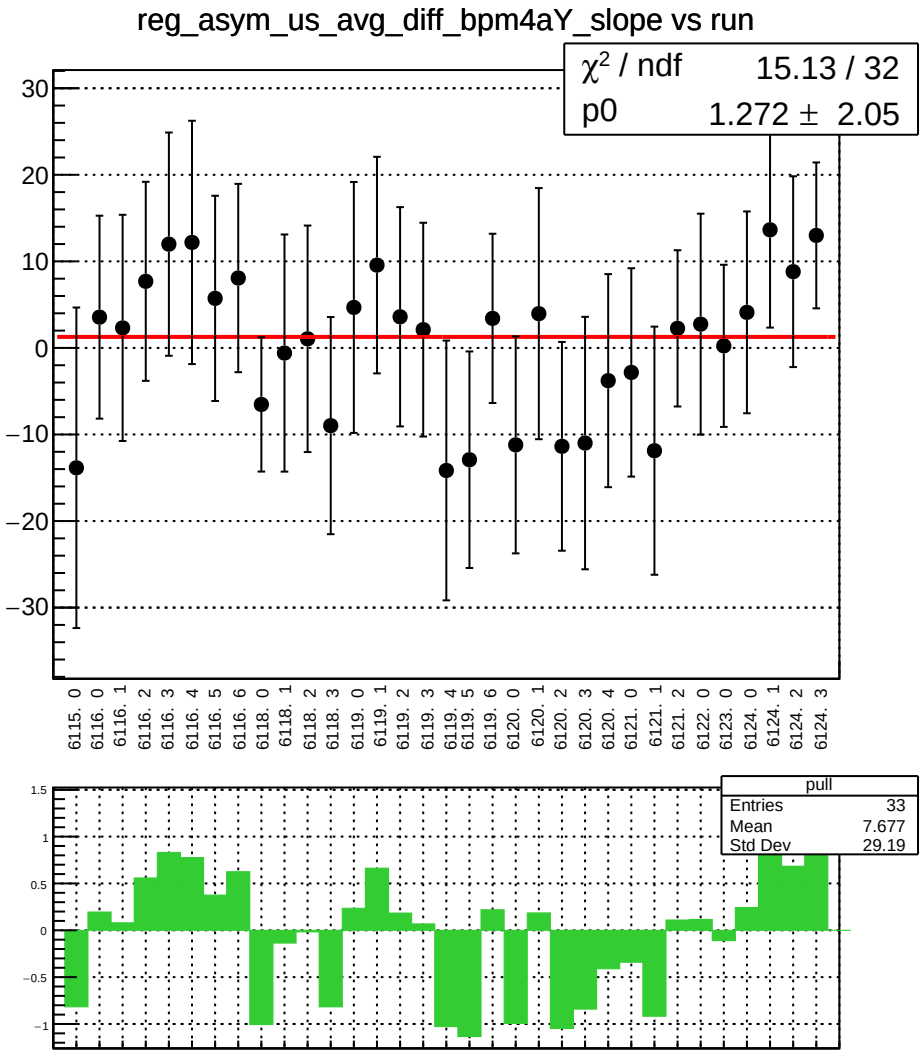

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 24.38 / 32
p0 0.04876 ± 0.2118
4
3
2
1
0
−1
−2
−3
−4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −74.12
Std Dev 90.67
1.5
1
0.5
0
−0.5
−1
−1.5

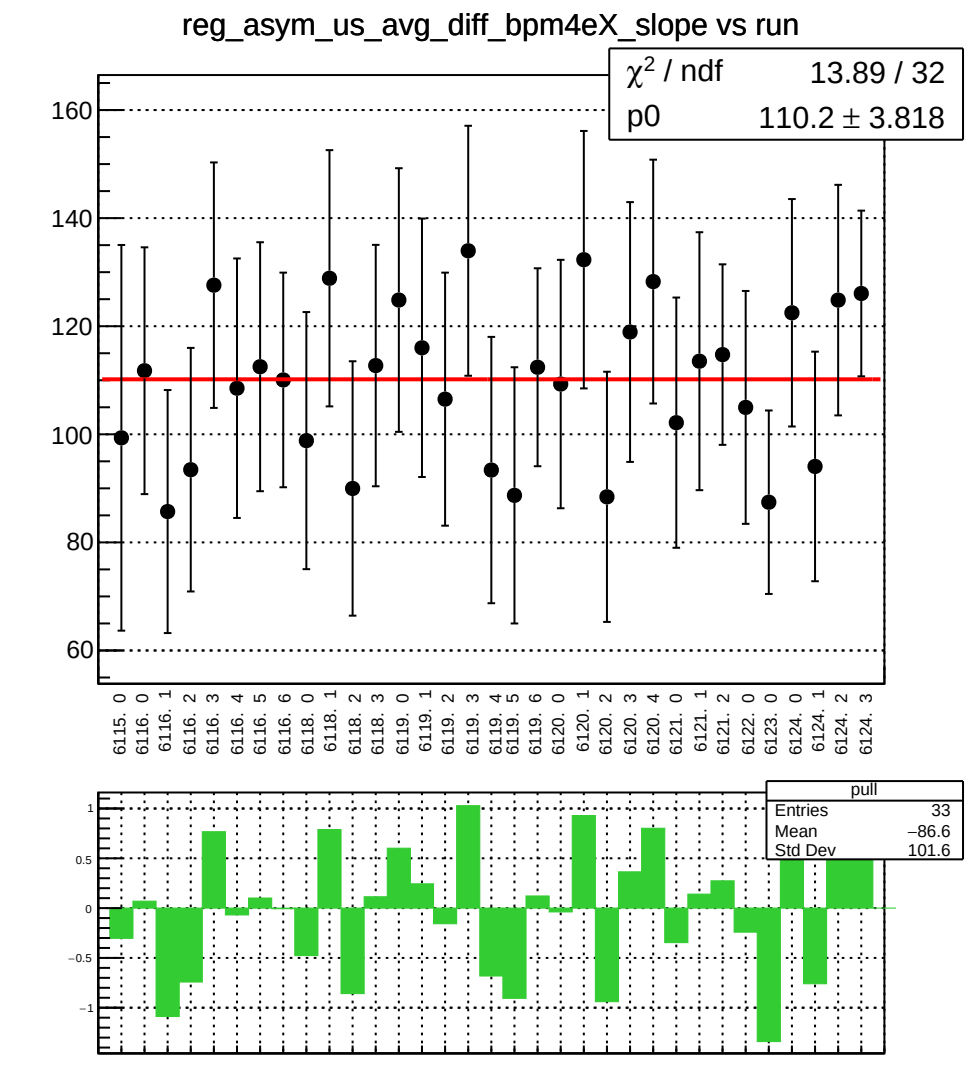

pull1D
Entries 33
Mean 0.01846
Std Dev 0.8594
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

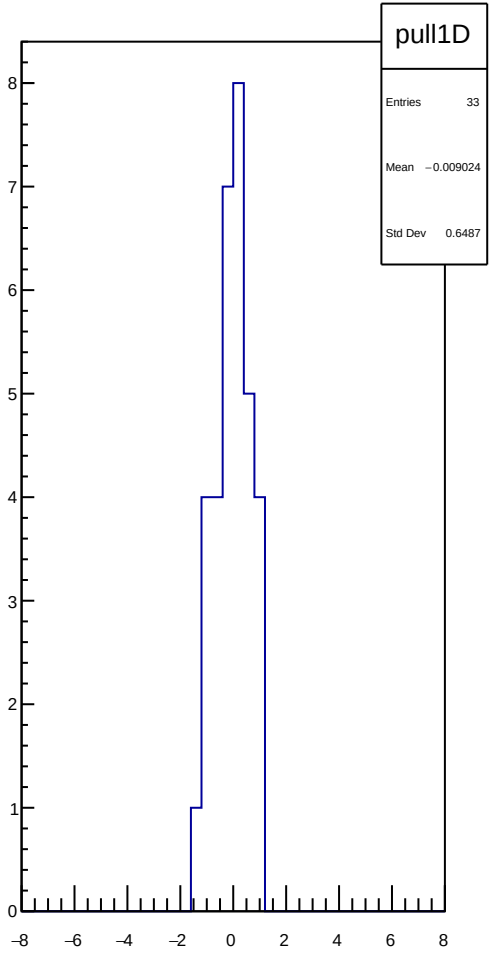

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 21.51 / 32
p0 0.02432 ± 0.01615
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −324.2
Std Dev 336.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

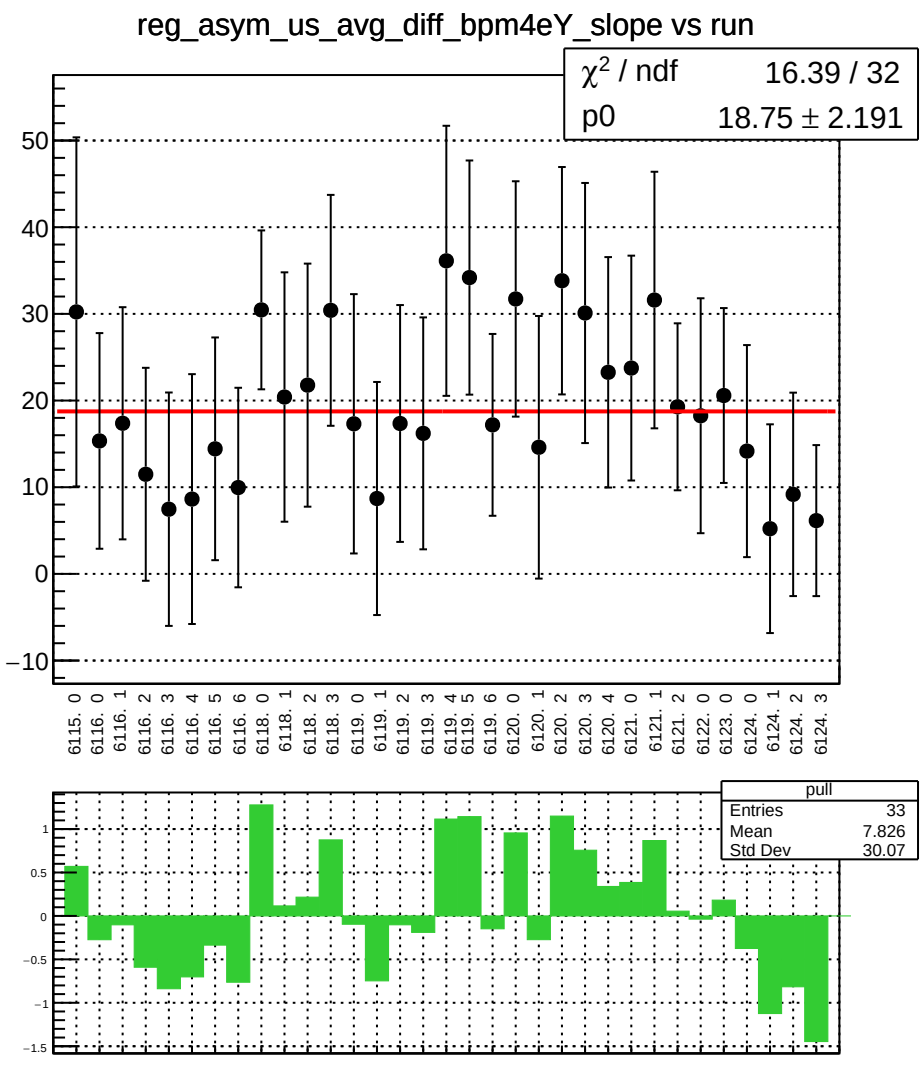

pull1D
Entries 33
Mean 0.004606
Std Dev 0.8074
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

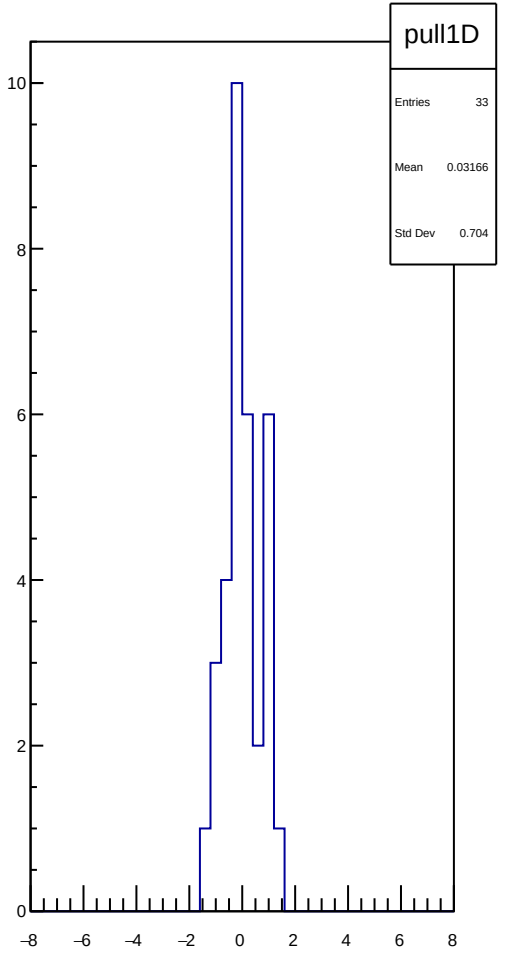

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.38 / 32
p0 −86.25 ± 3.281
−40
−50
−60
−70
−80
−90
−100
−110
−120
−130
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −66.7
Std Dev 81.47
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.01171
Std Dev 0.6367
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

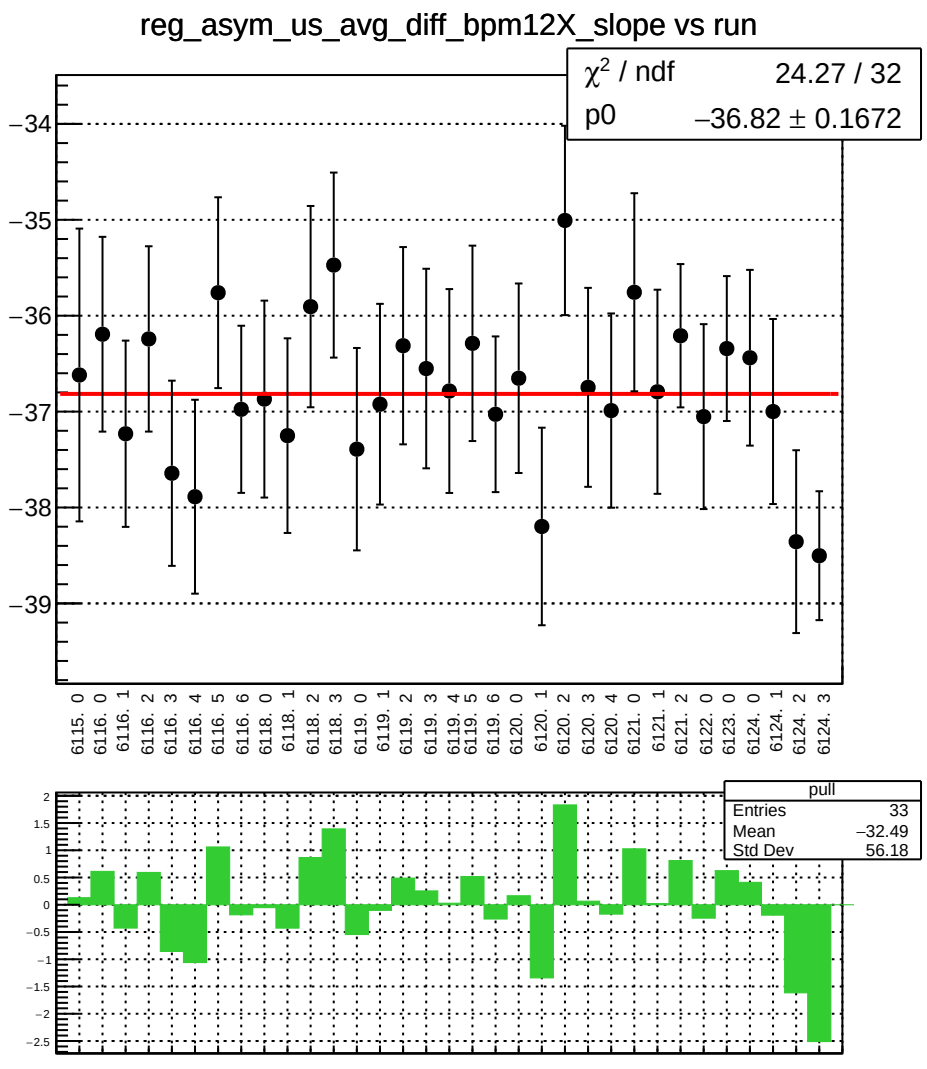

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.13 / 32
p0 1.272 ± 2.05
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 7.677
Std Dev 29.19
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.02978
Std Dev 0.6764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

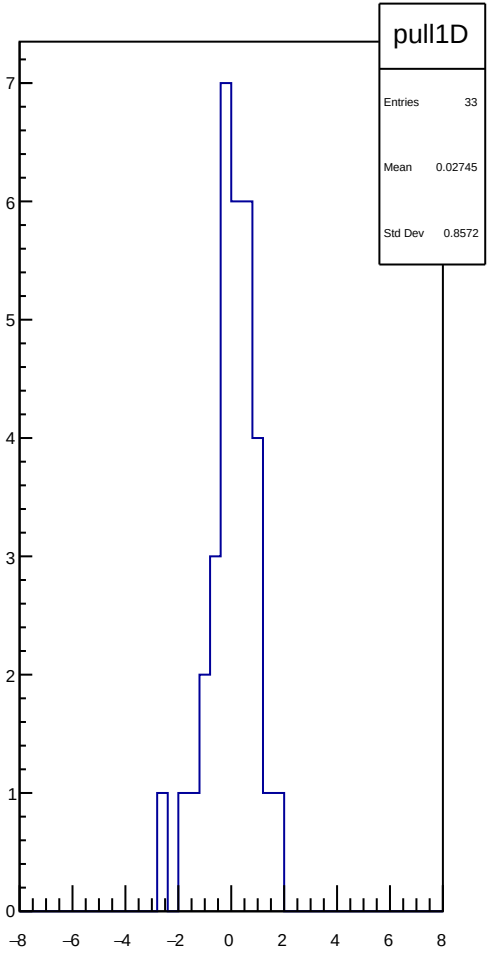

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.89 / 32
p0 110.2 ± 3.818
160
140
120
100
80
60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −86.6
Std Dev 101.6
1
0.5
0
−0.5
−1

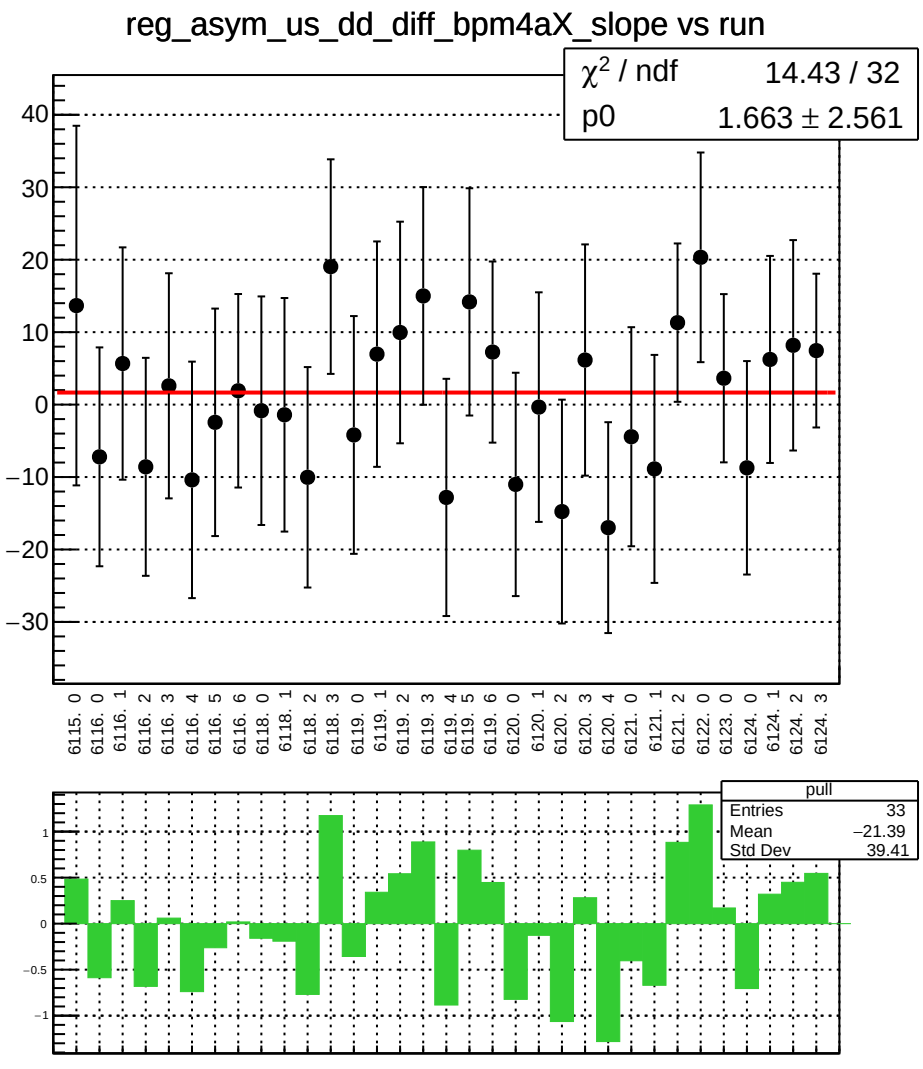

pull1D
Entries 33
Mean −0.009024
Std Dev 0.6487
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

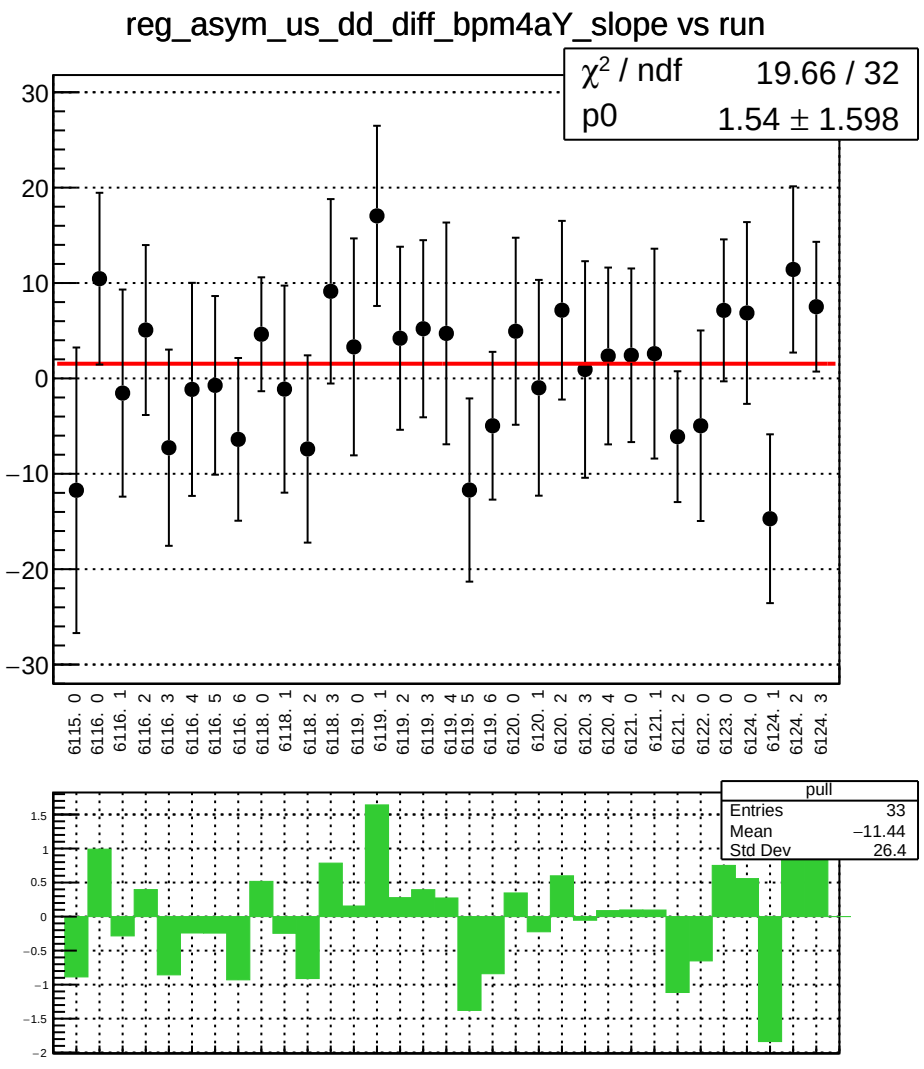

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.39 / 32
p0 18.75 ± 2.191
50
40
30
20
10
0
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 7.826
Std Dev 30.07
1
0.5
0
−0.5
−1
−1.5

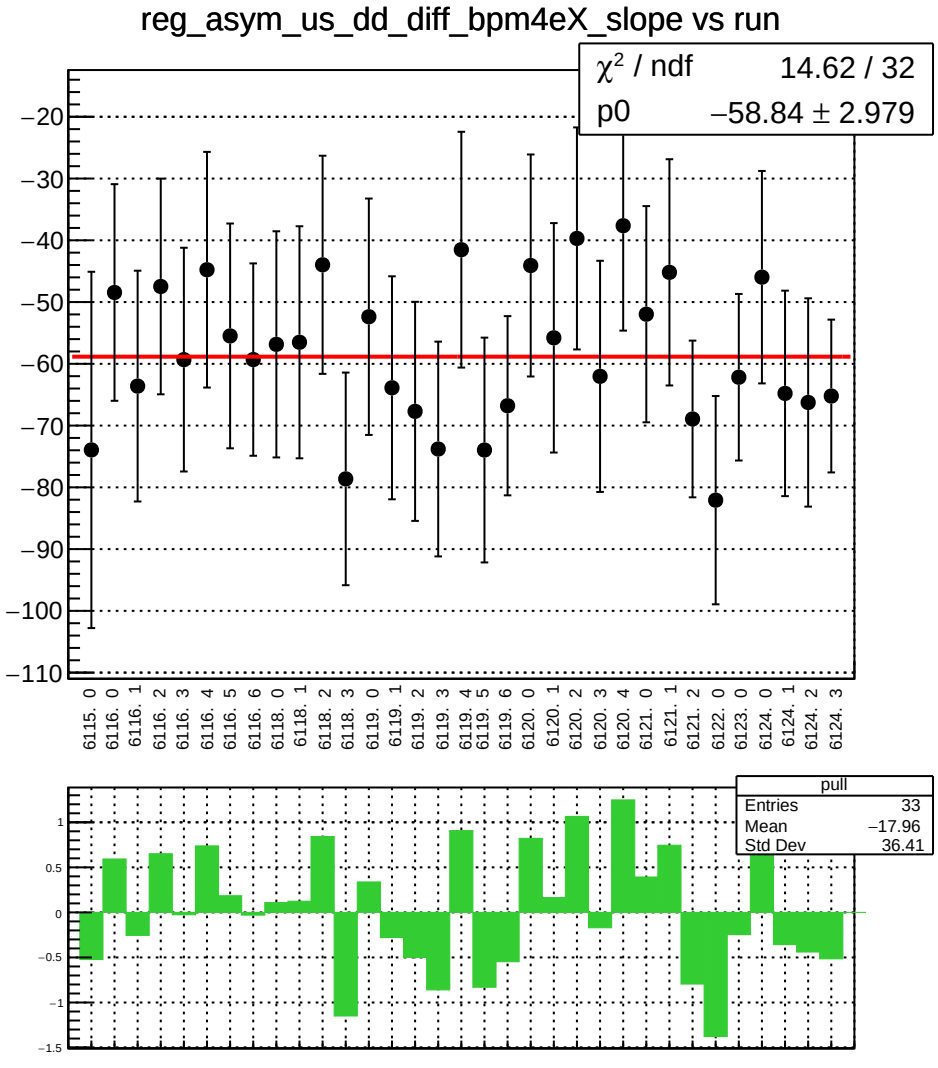

pull1D
Entries 33
Mean 0.03166
Std Dev 0.704
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

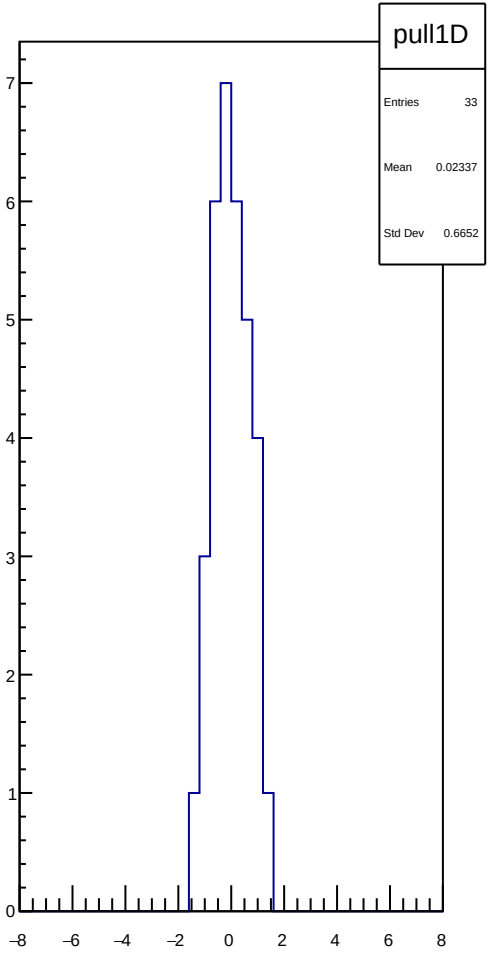

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 24.27 / 32
p0 −36.82 ± 0.1672
−34
−35
−36
−37
−38
−39
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −32.49
Std Dev 56.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

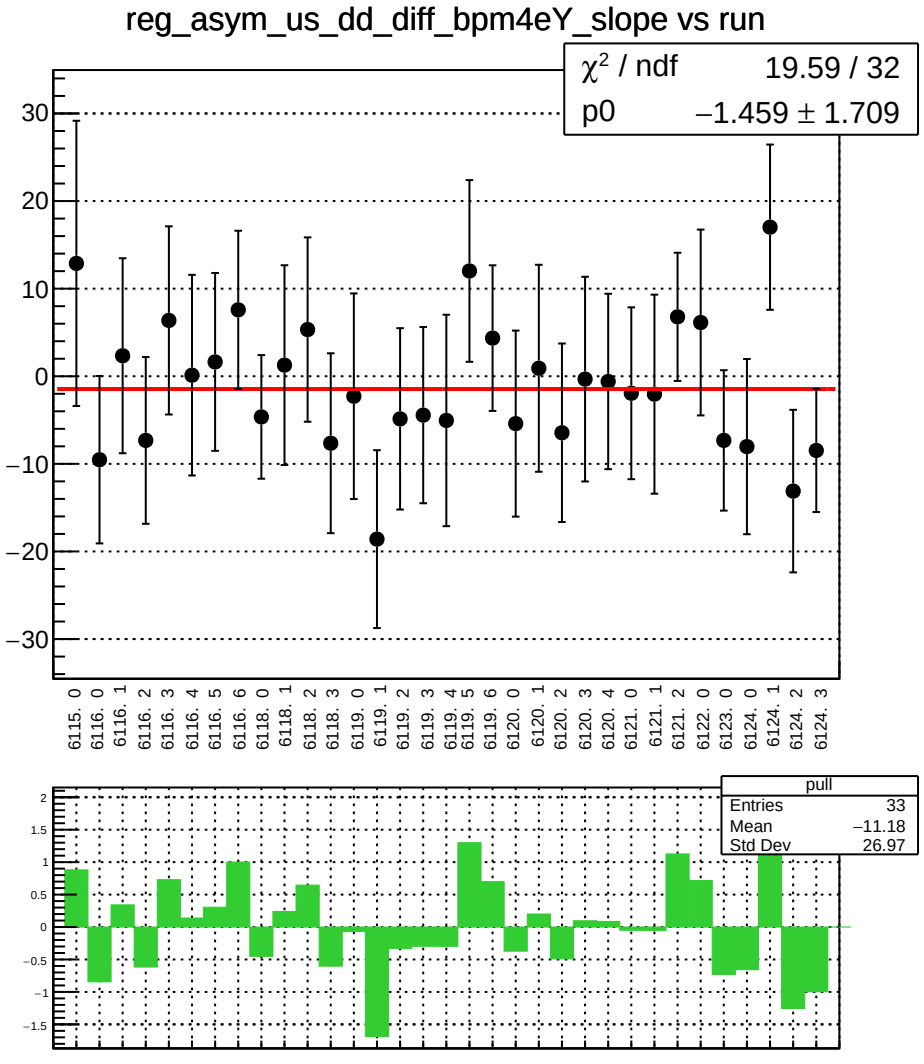

pull1D
Entries 33
Mean 0.02745
Std Dev 0.8572
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

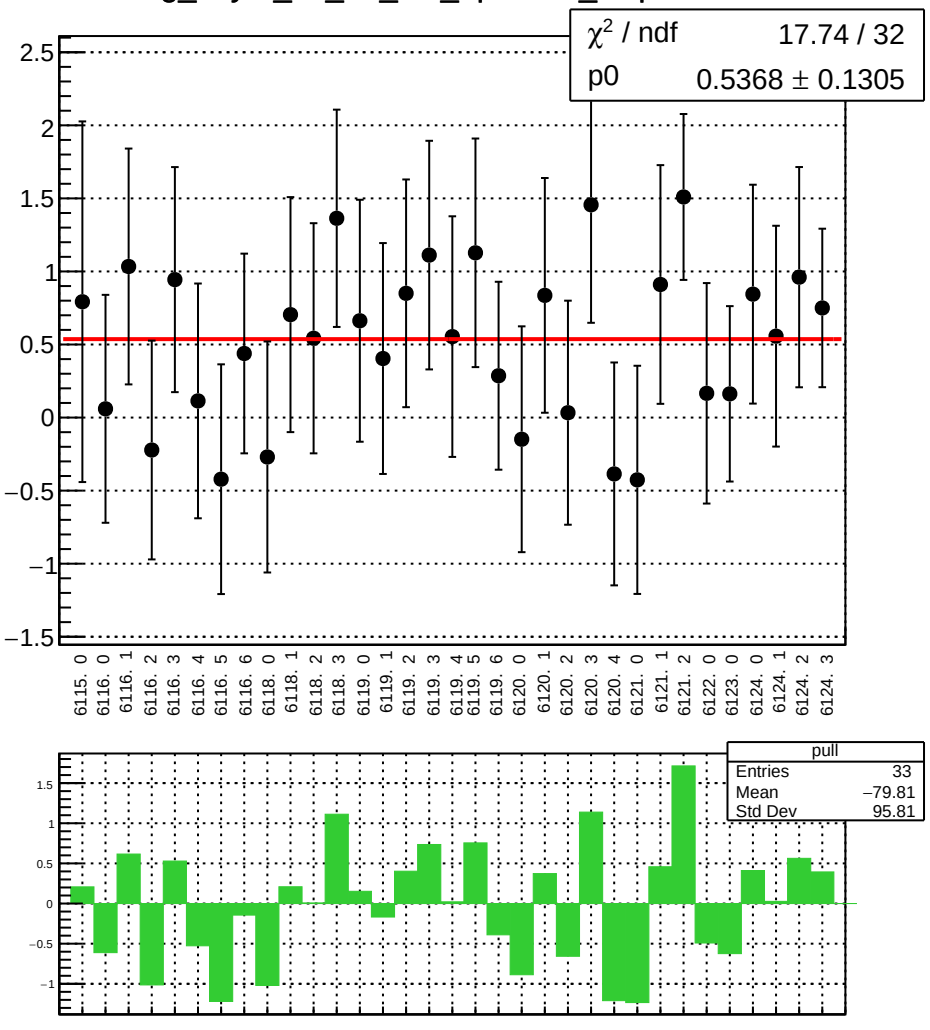

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.43 / 32
p0 1.663 ± 2.561
40
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −21.39
Std Dev 39.41
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.02302
Std Dev 0.6608
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

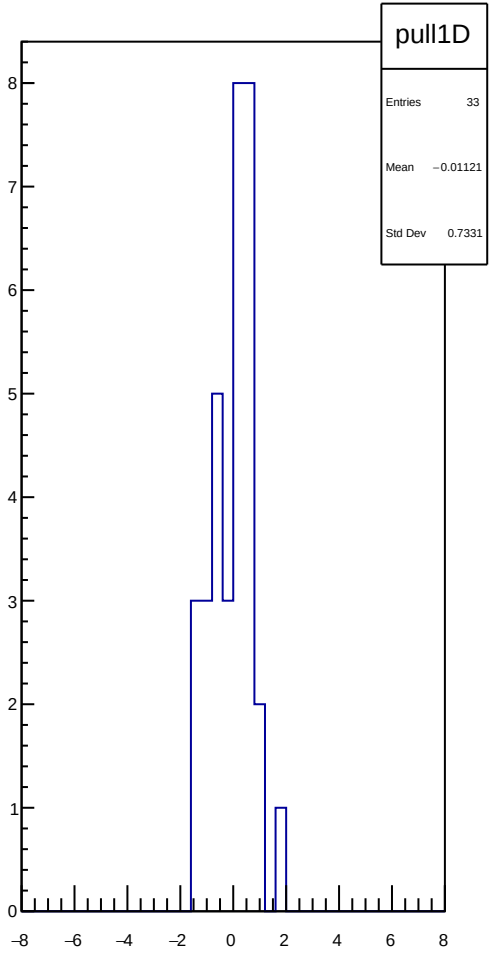

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.66 / 32
p0 1.54 ± 1.598
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −11.44
Std Dev 26.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0215
Std Dev 0.7715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

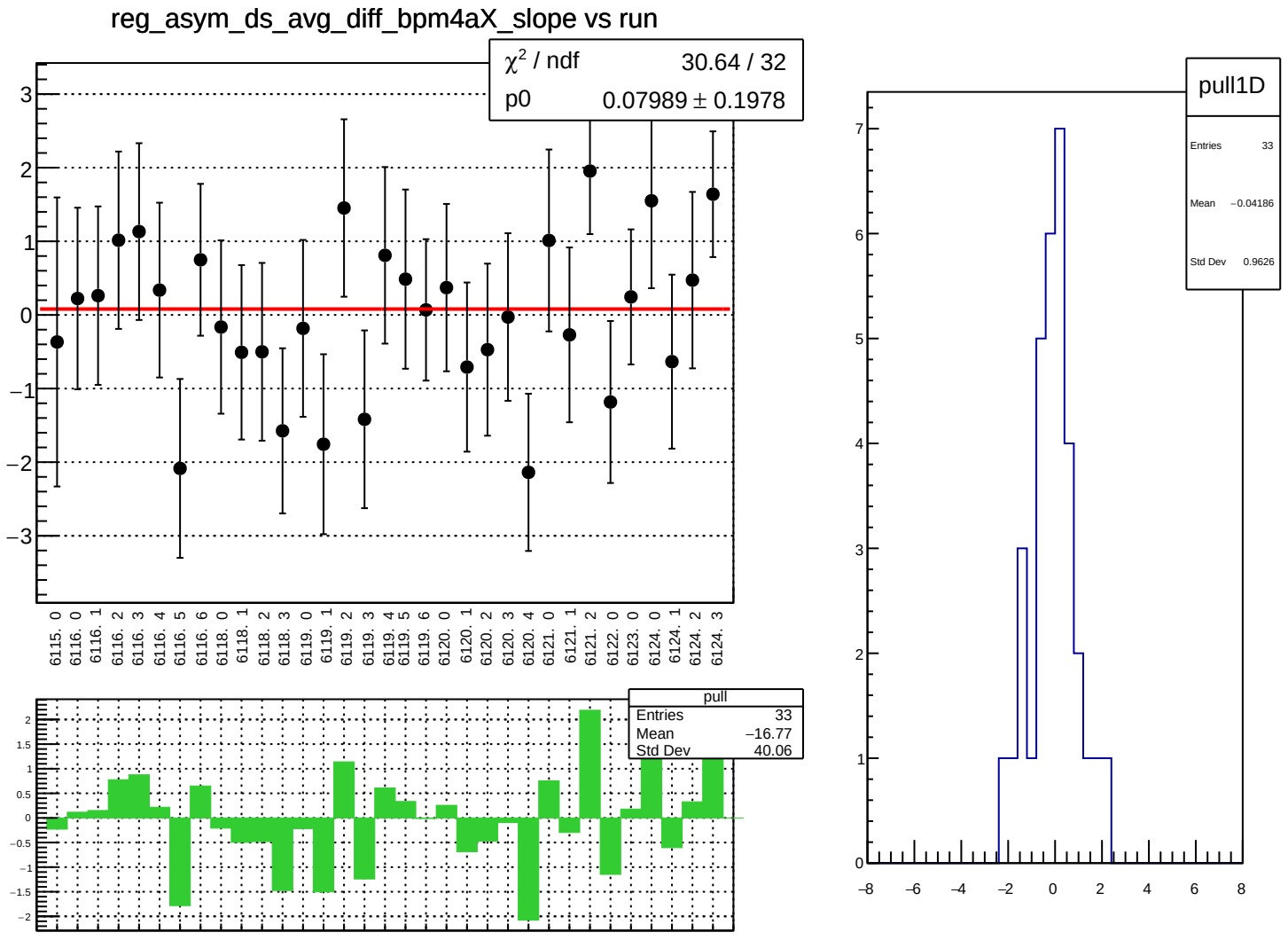

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.62 / 32
p0 −58.84 ± 2.979
−20
−30
−40
−50
−60
−70
−80
−90
−100
−110
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −17.96
Std Dev 36.41
1
0.5
0
−0.5
−1
−1.5

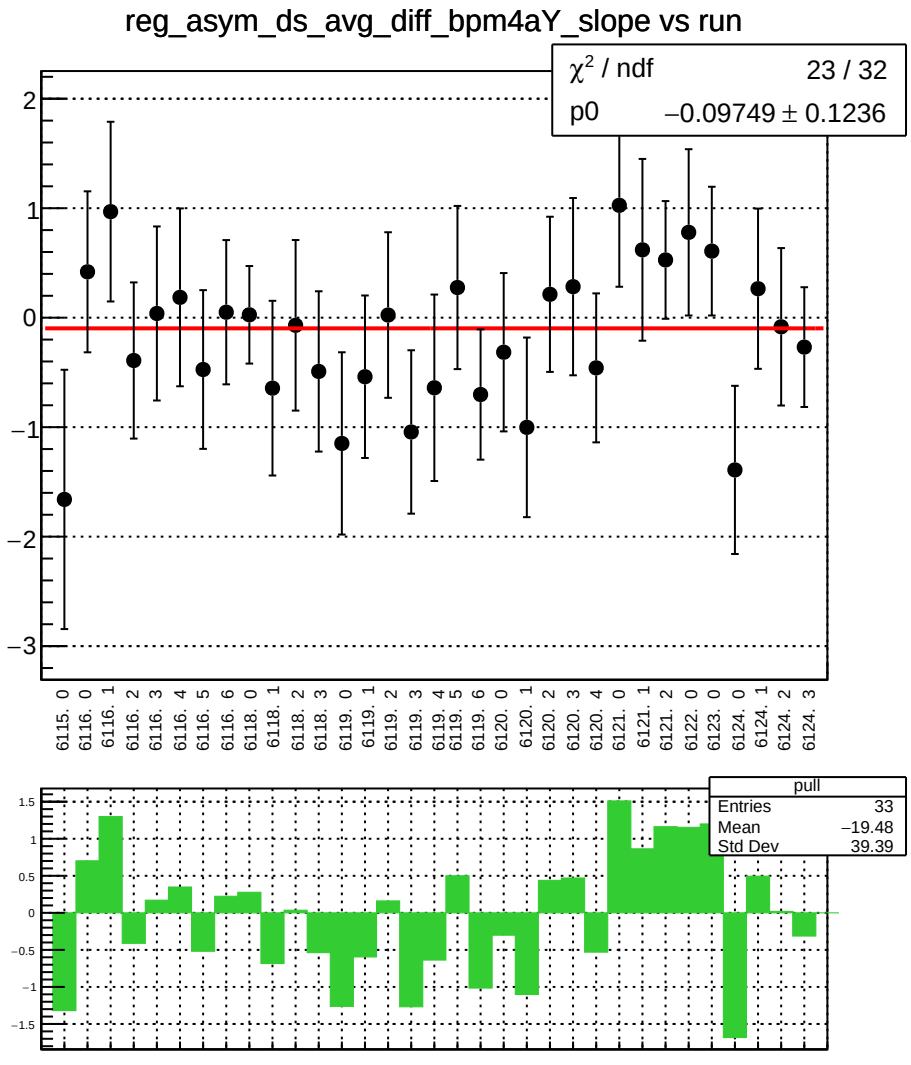

pull1D
Entries 33
Mean 0.02337
Std Dev 0.6652
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

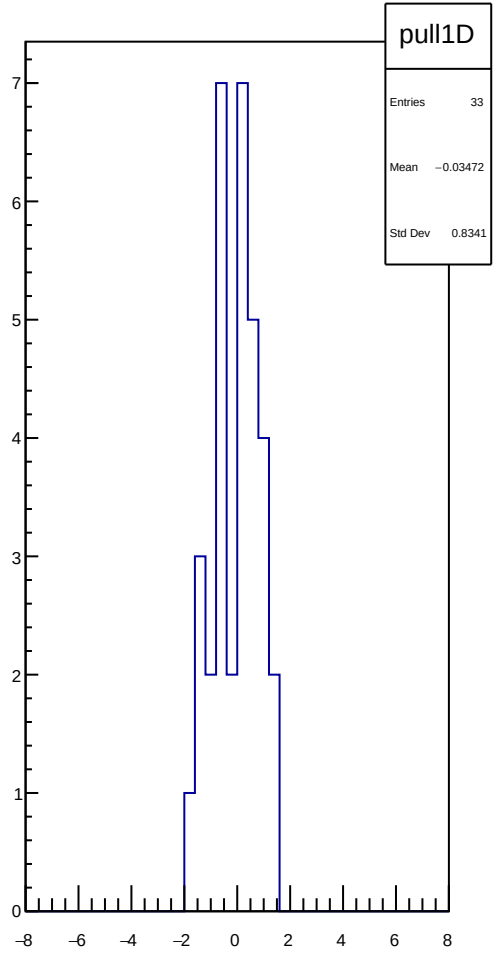

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.59 / 32
p0 −1.459 ± 1.709
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −11.18
Std Dev 26.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02021
Std Dev 0.7702
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

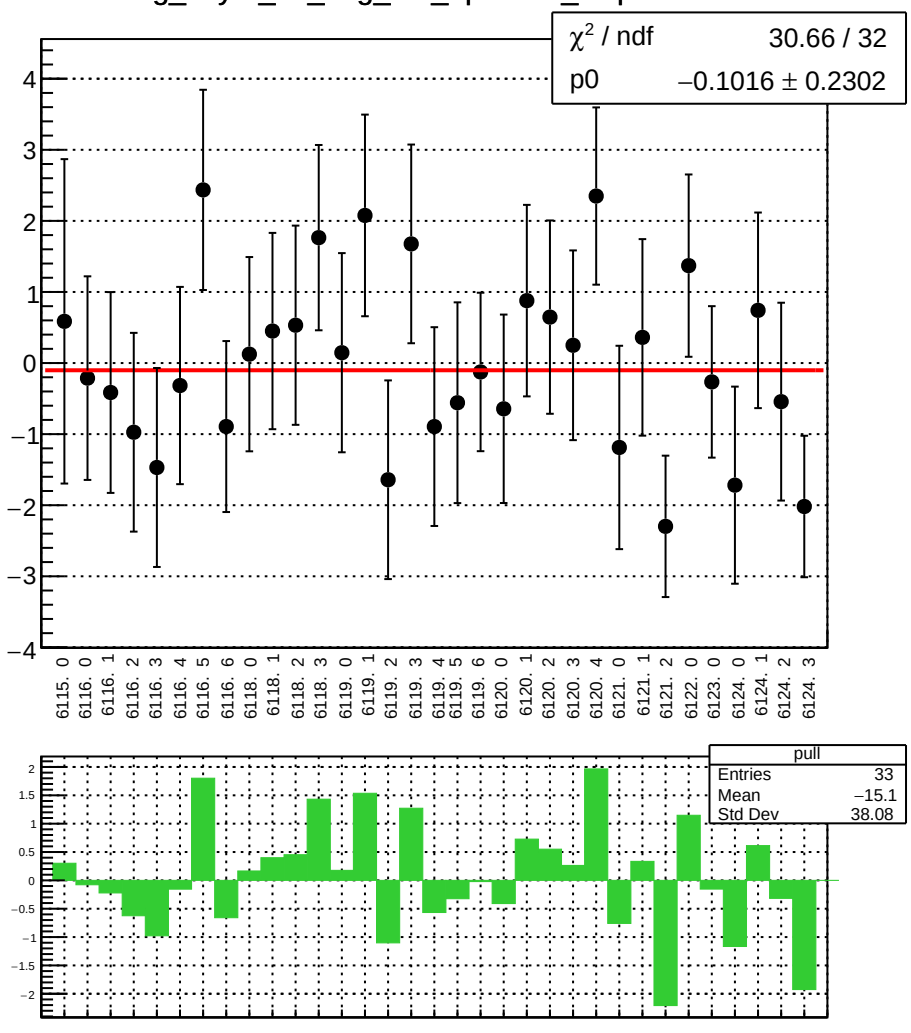

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 17.74 / 32
p0 0.5368 ± 0.1305
pull
Entries 33
Mean −79.81
Std Dev 95.81

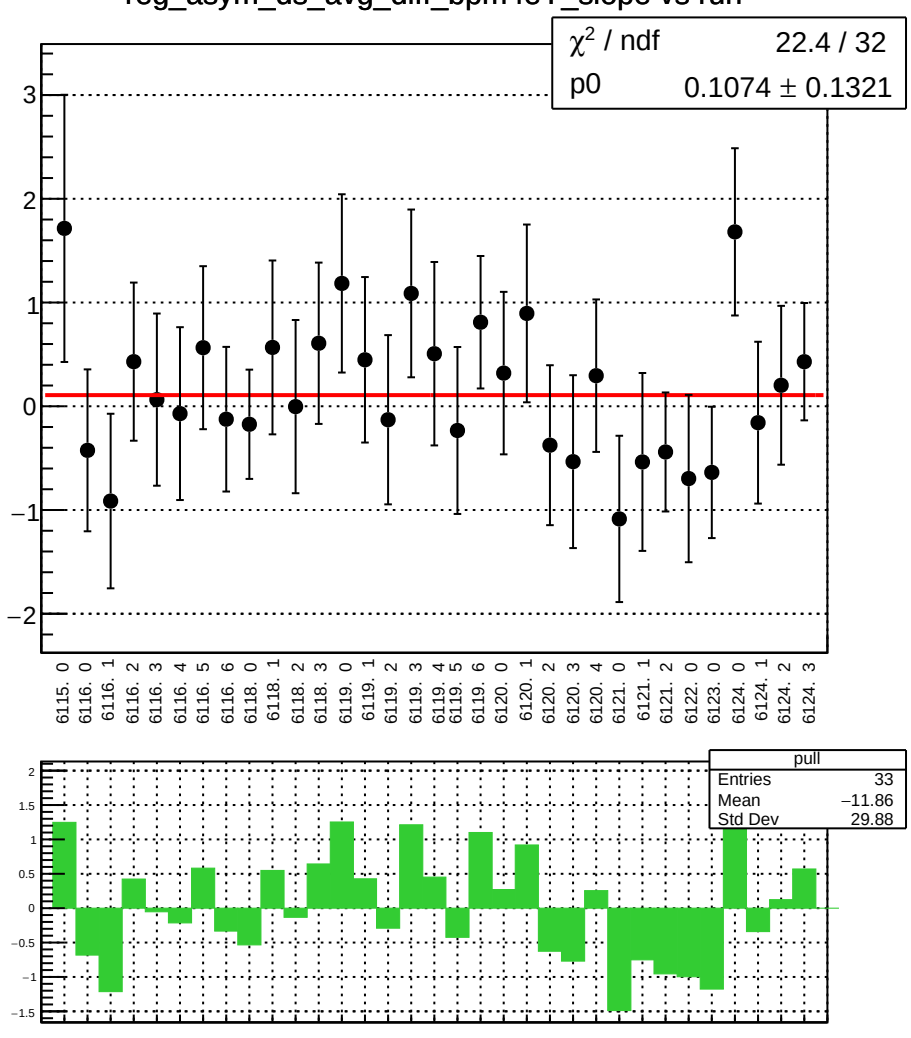

pull1D
Entries 33
Mean −0.01121
Std Dev 0.7331

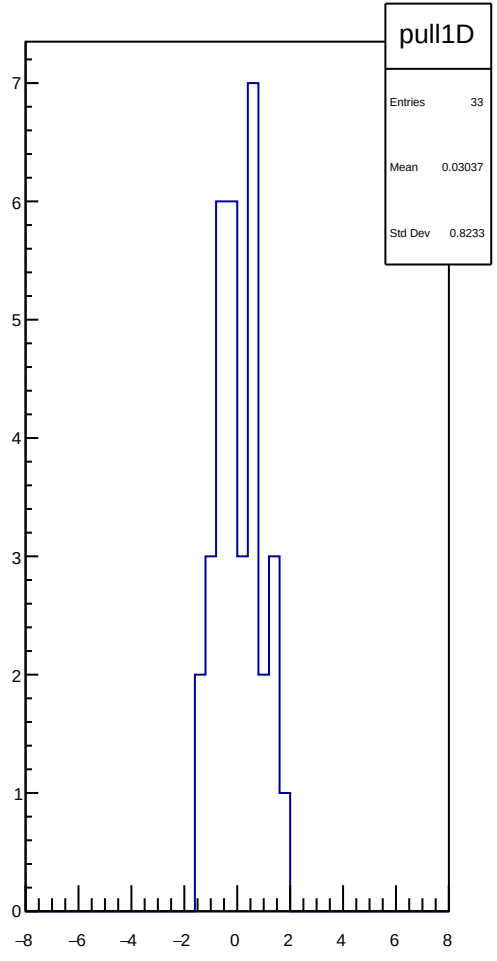

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.64 / 32
p0 0.07989 ± 0.1978
3
2
1
0
−1
−2
−3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −16.77
Std Dev 40.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04186
Std Dev 0.9626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

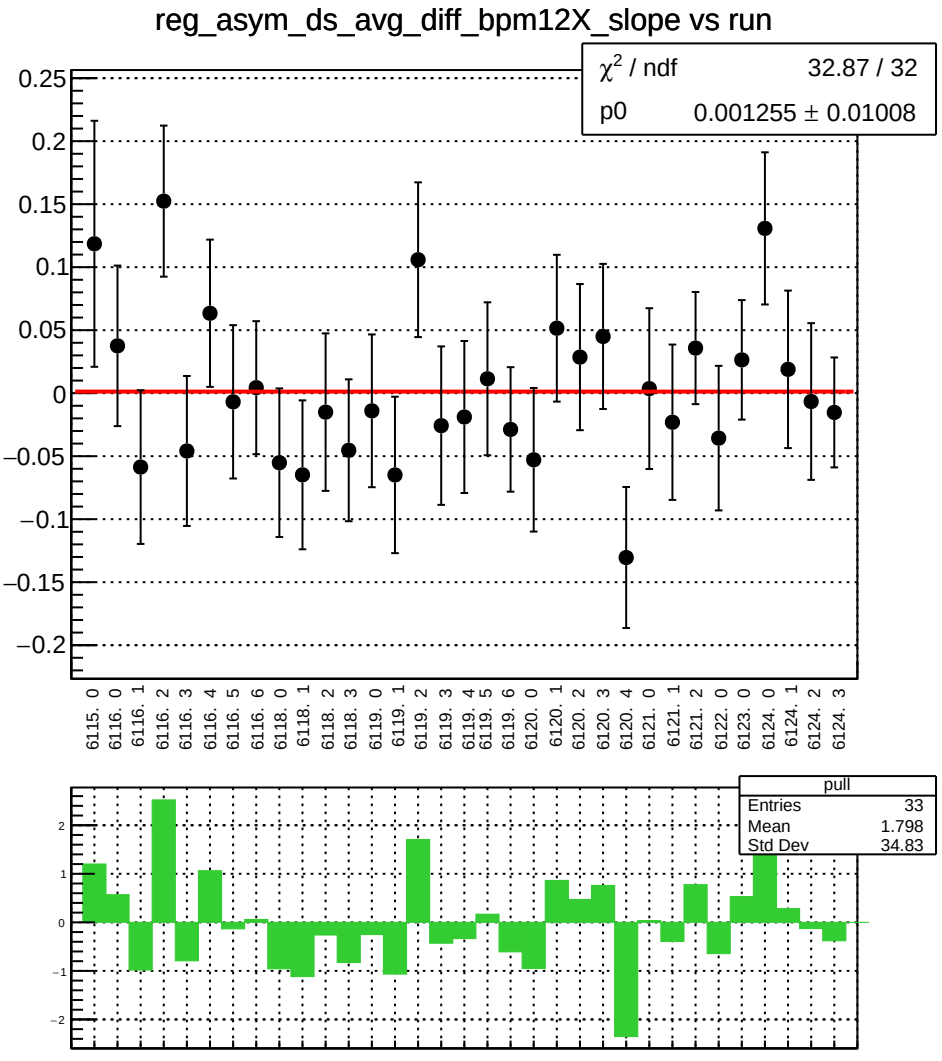

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 23 / 32
p0 −0.09749 ± 0.1236
pull
Entries 33
Mean −19.48
Std Dev 39.39

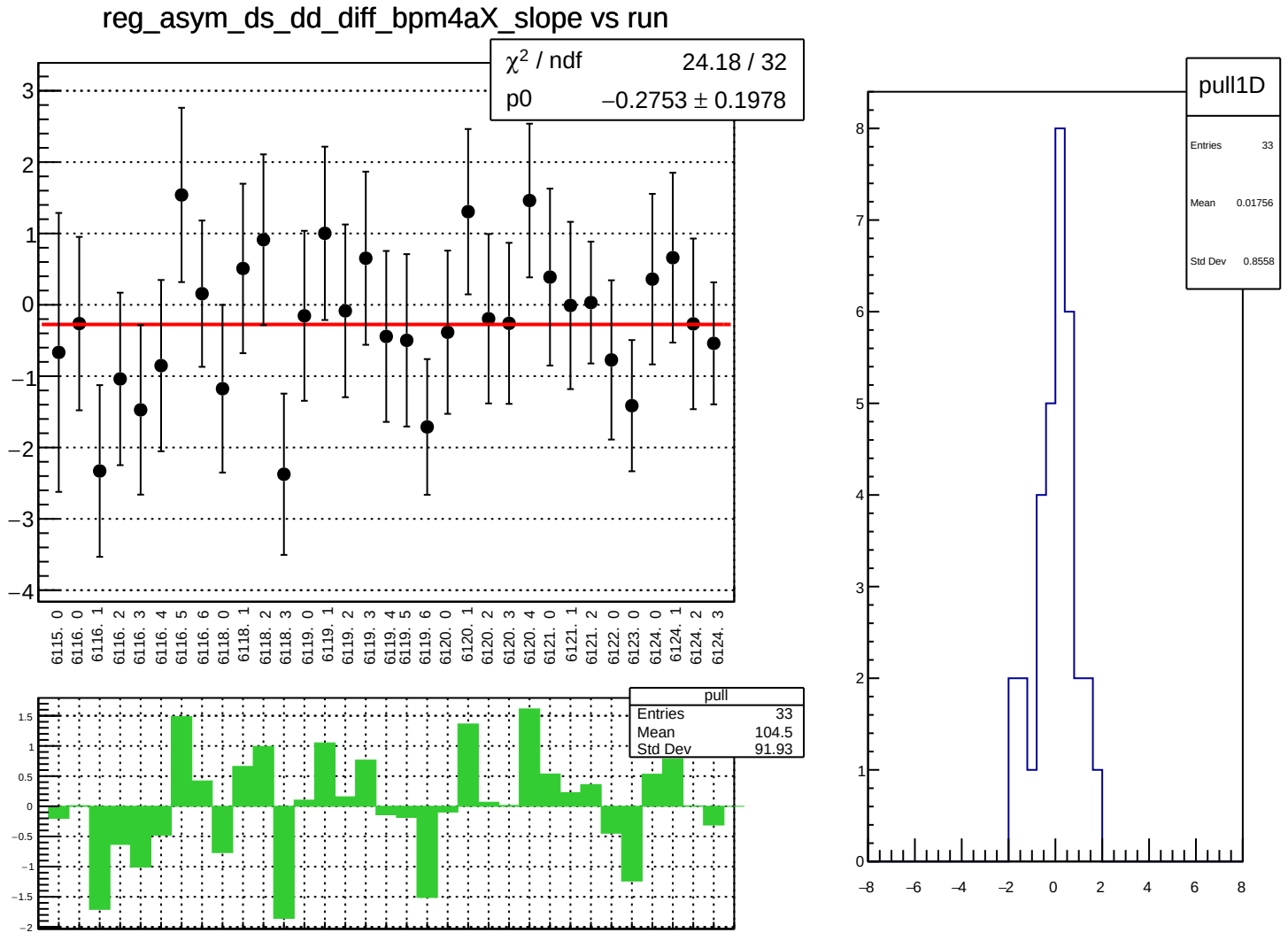

pull1D
Entries 33
Mean −0.03472
Std Dev 0.8341

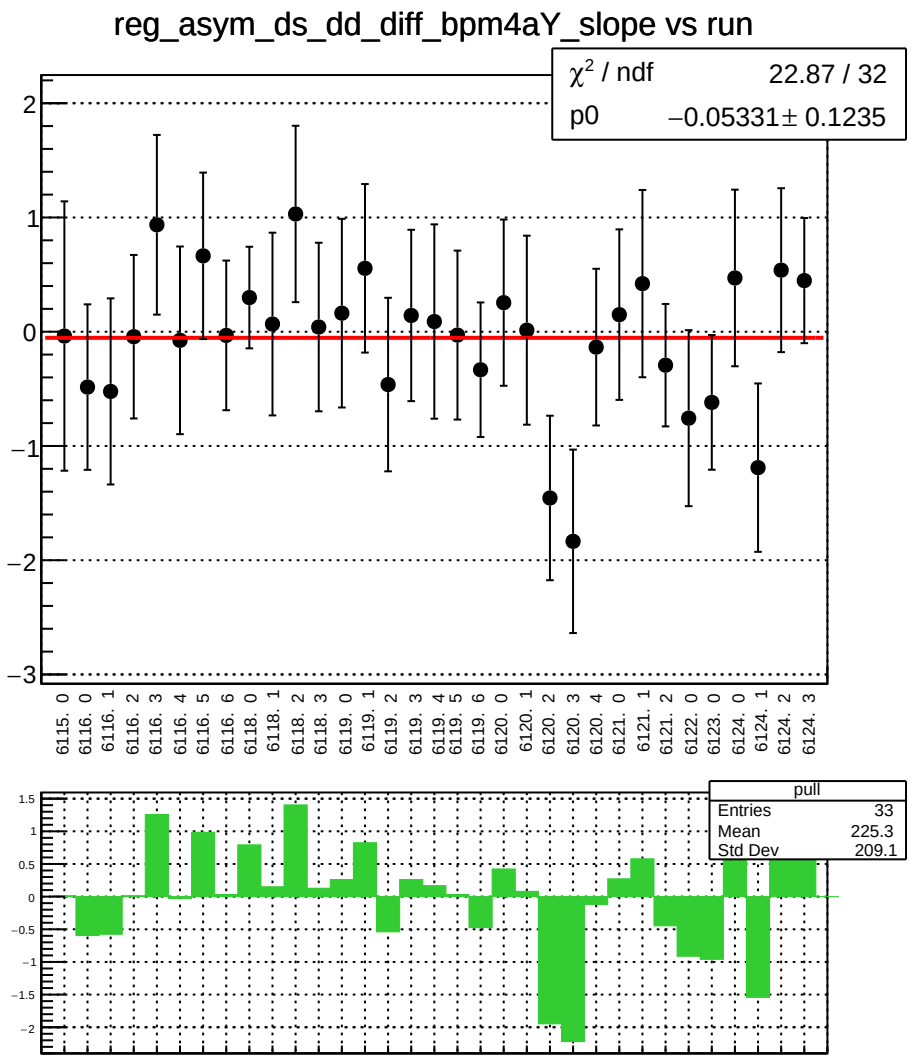

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.66 / 32
p0 −0.1016 ± 0.2302
pull
Entries 33
Mean −15.1
Std Dev 38.08
pull1D
Entries 33
Mean 0.04468
Std Dev 0.9629

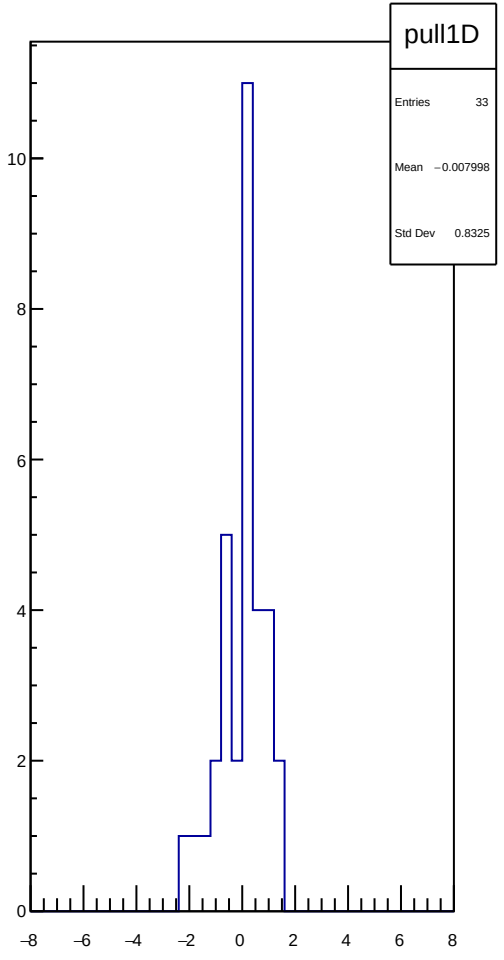

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.4 / 32
p0 0.1074 ± 0.1321
pull
Entries 33
Mean −11.86
Std Dev 29.88

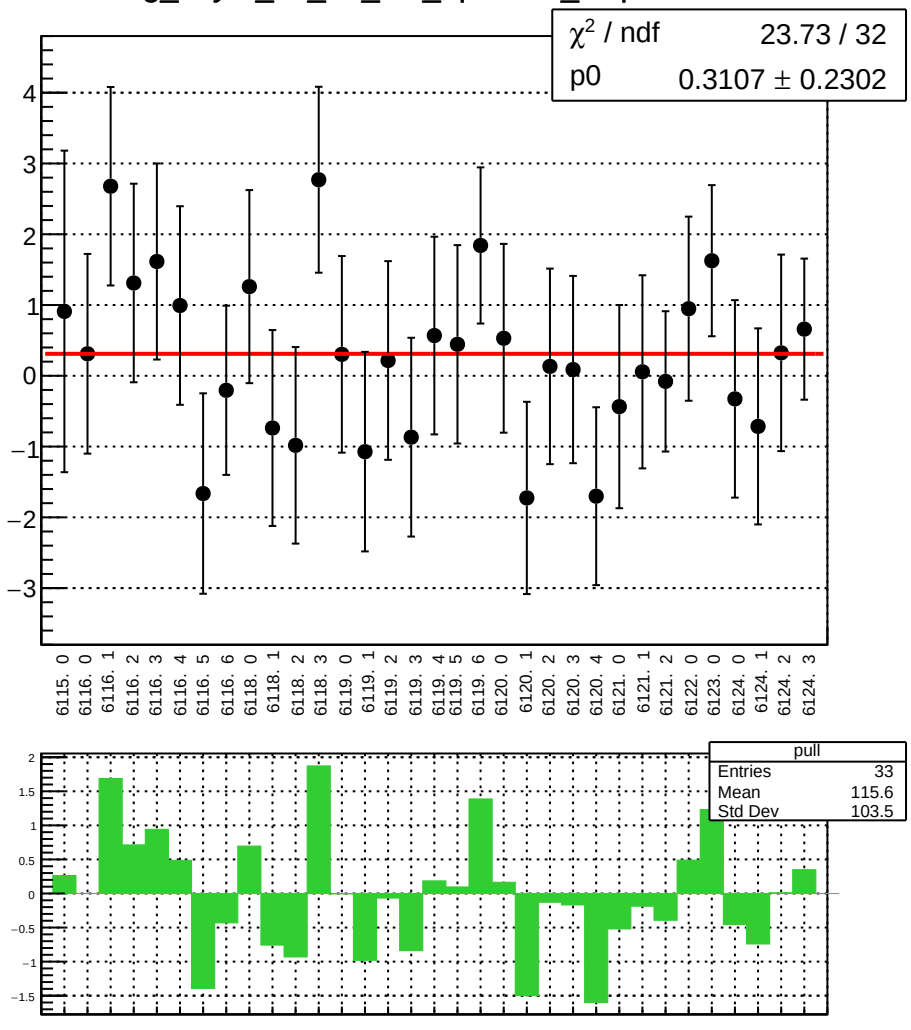

pull1D
Entries 33
Mean 0.03037
Std Dev 0.8233

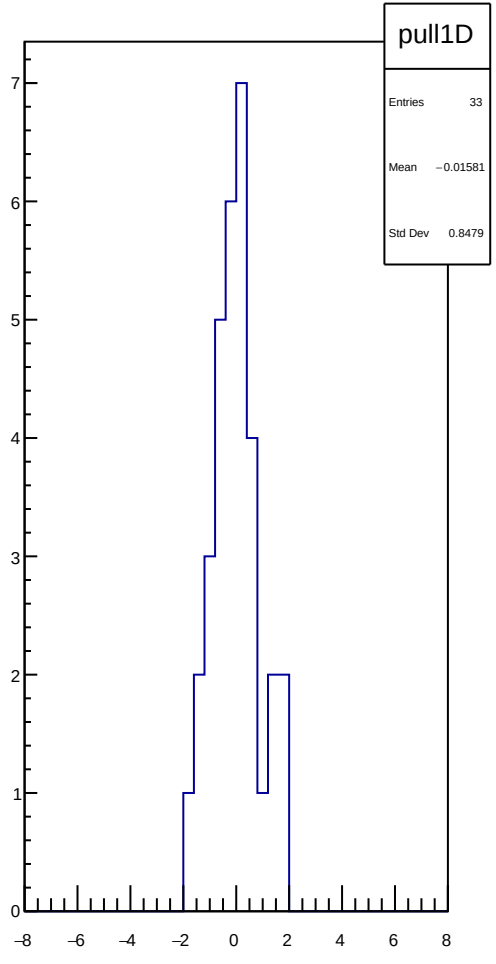

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 32.87 / 32
p0 0.001255 ± 0.01008
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1.798
Std Dev 34.83
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.01672
Std Dev 0.9978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

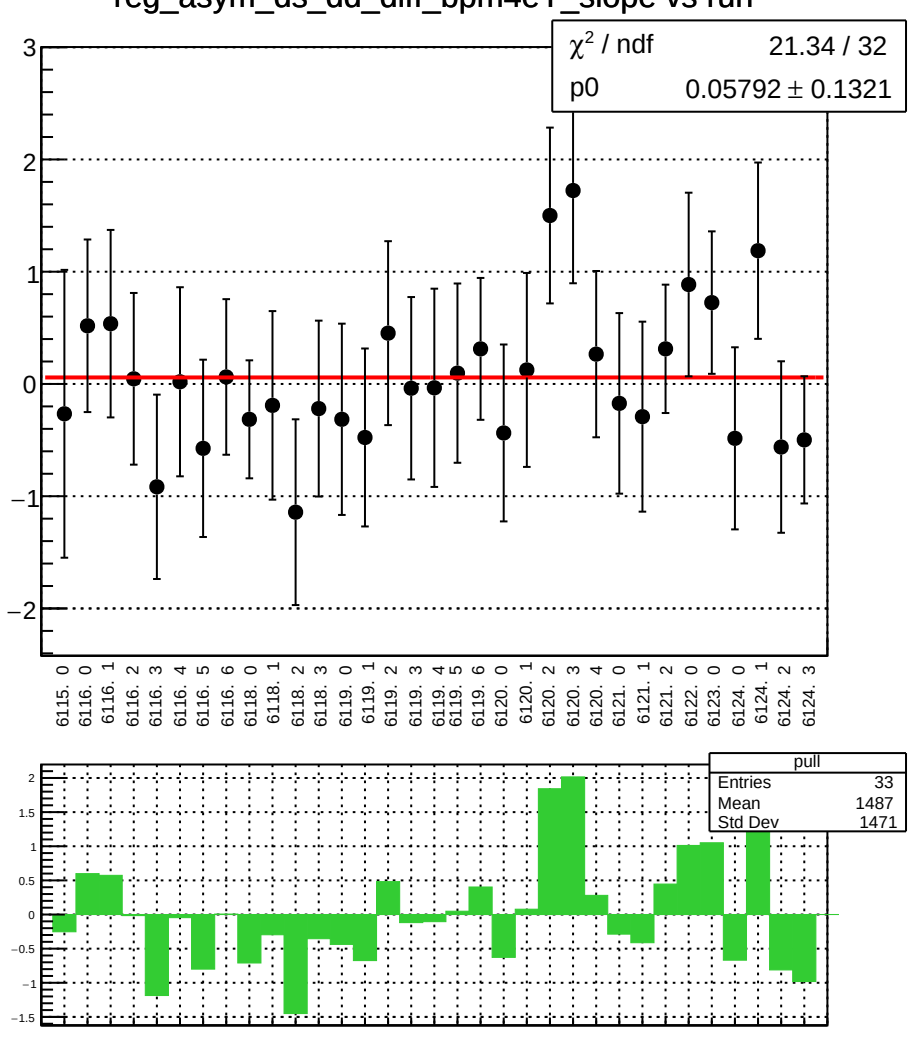

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.18 / 32
p0 −0.2753 ± 0.1978
3
2
1
0
−1
−2
−3
−4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 104.5
Std Dev 91.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01756
Std Dev 0.8558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

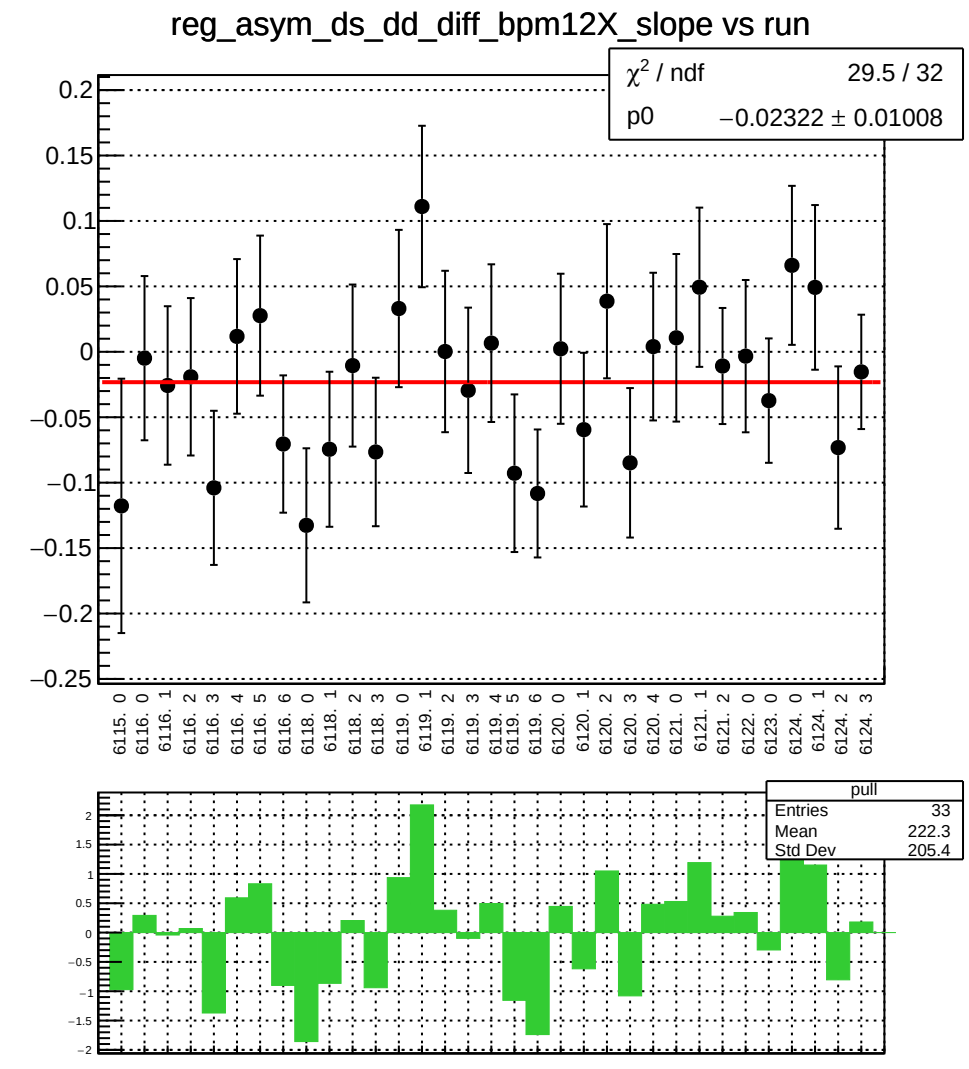

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.87 / 32
p0 −0.05331± 0.1235
pull
Entries 33
Mean 225.3
Std Dev 209.1

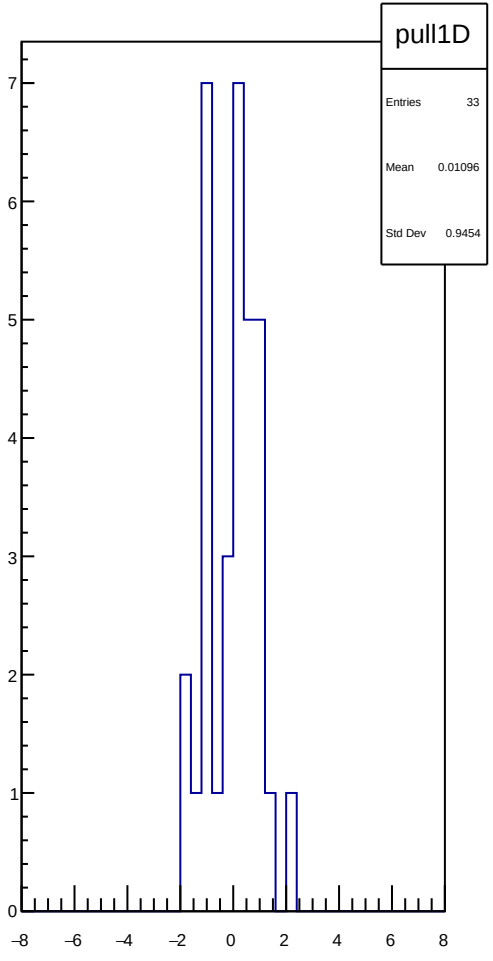

pull1D
Entries 33
Mean −0.007998
Std Dev 0.8325

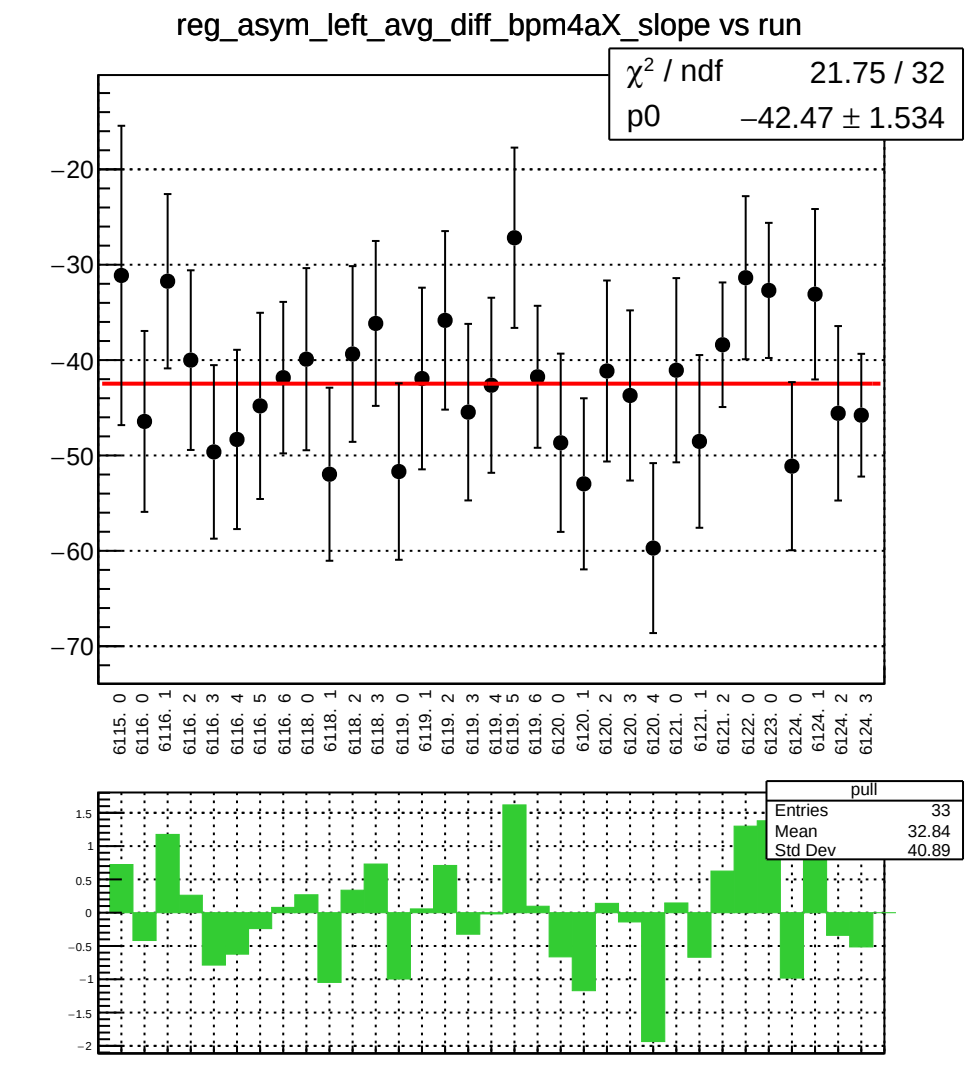

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.73 / 32
p0 0.3107 ± 0.2302
pull
Entries 33
Mean 115.6
Std Dev 103.5

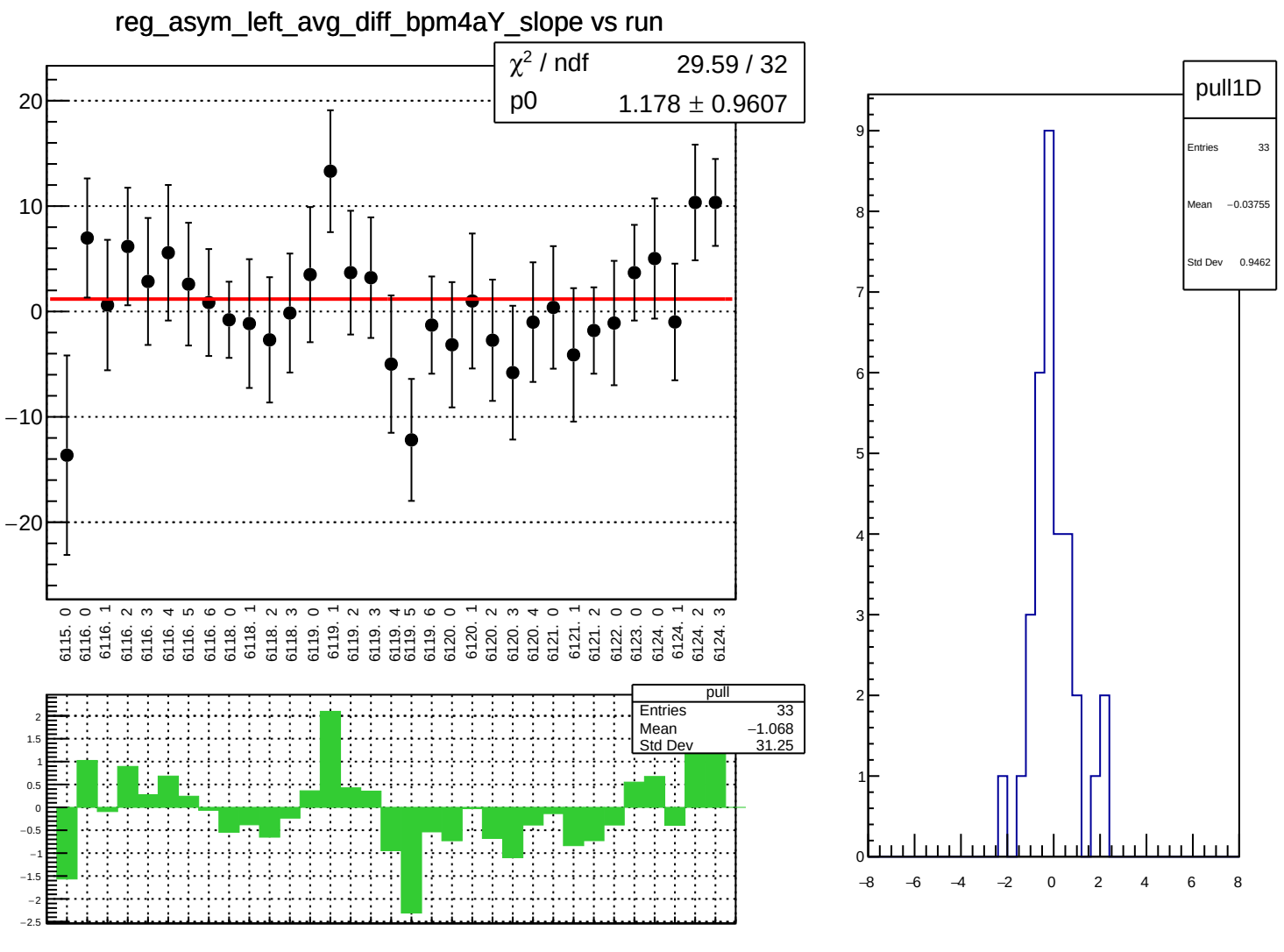

pull1D
Entries 33
Mean −0.01581
Std Dev 0.8479

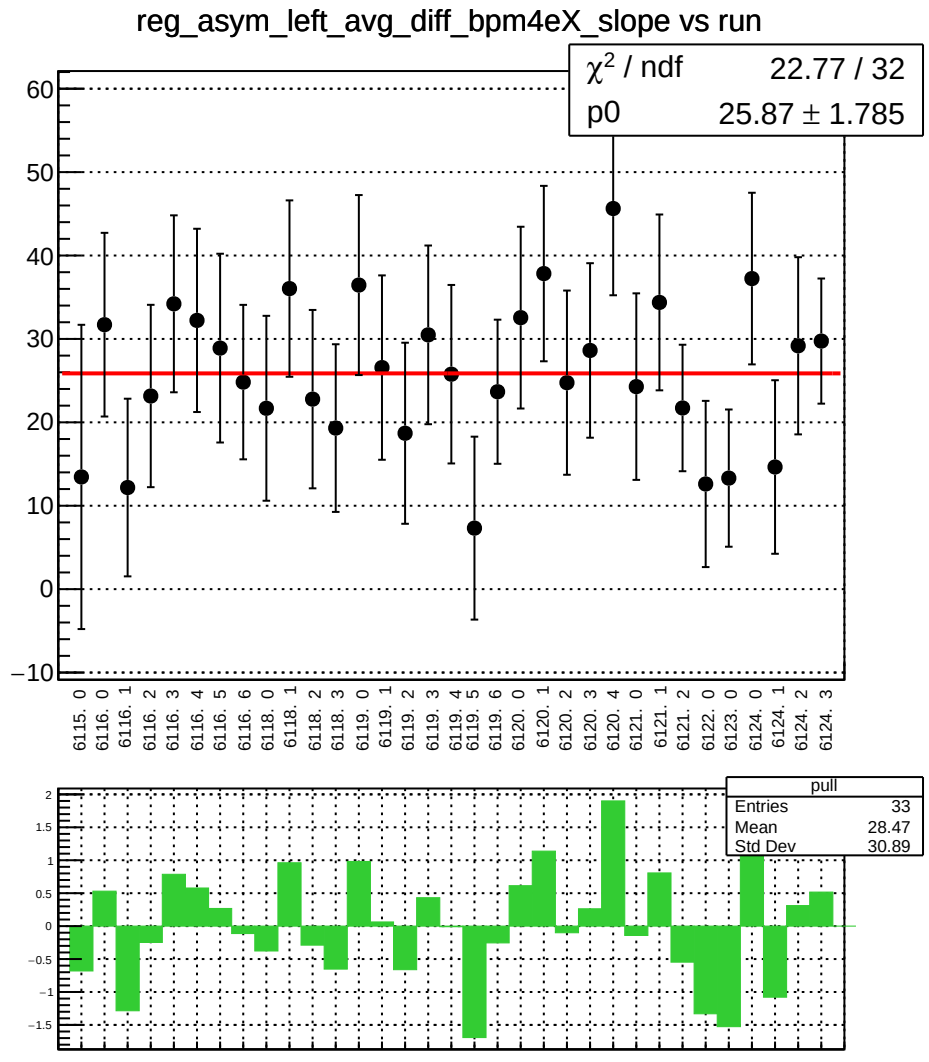

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.34 / 32
p0 0.05792 ± 0.1321
3
2
1
0
−1
−2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1487
Std Dev 1471
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.001224
Std Dev 0.8042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

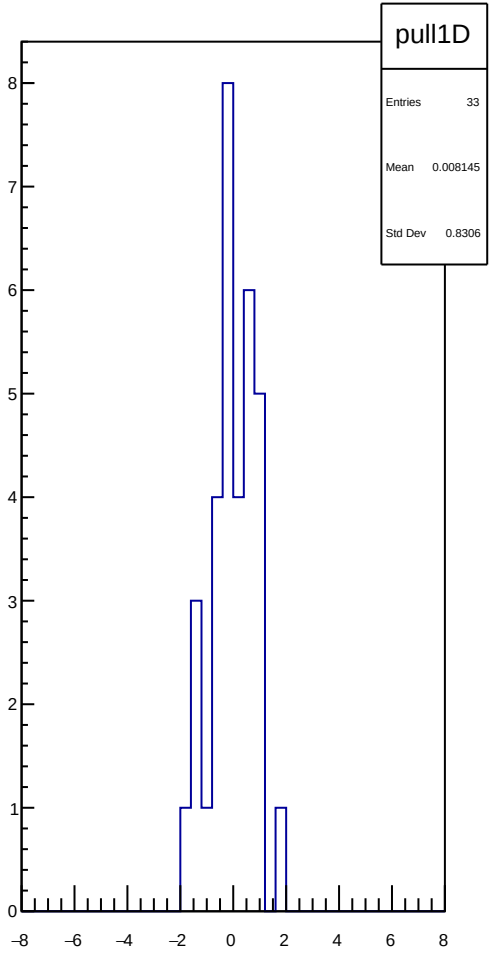

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 29.5 / 32
p0 −0.02322 ± 0.01008
pull
Entries 33
Mean 222.3
Std Dev 205.4

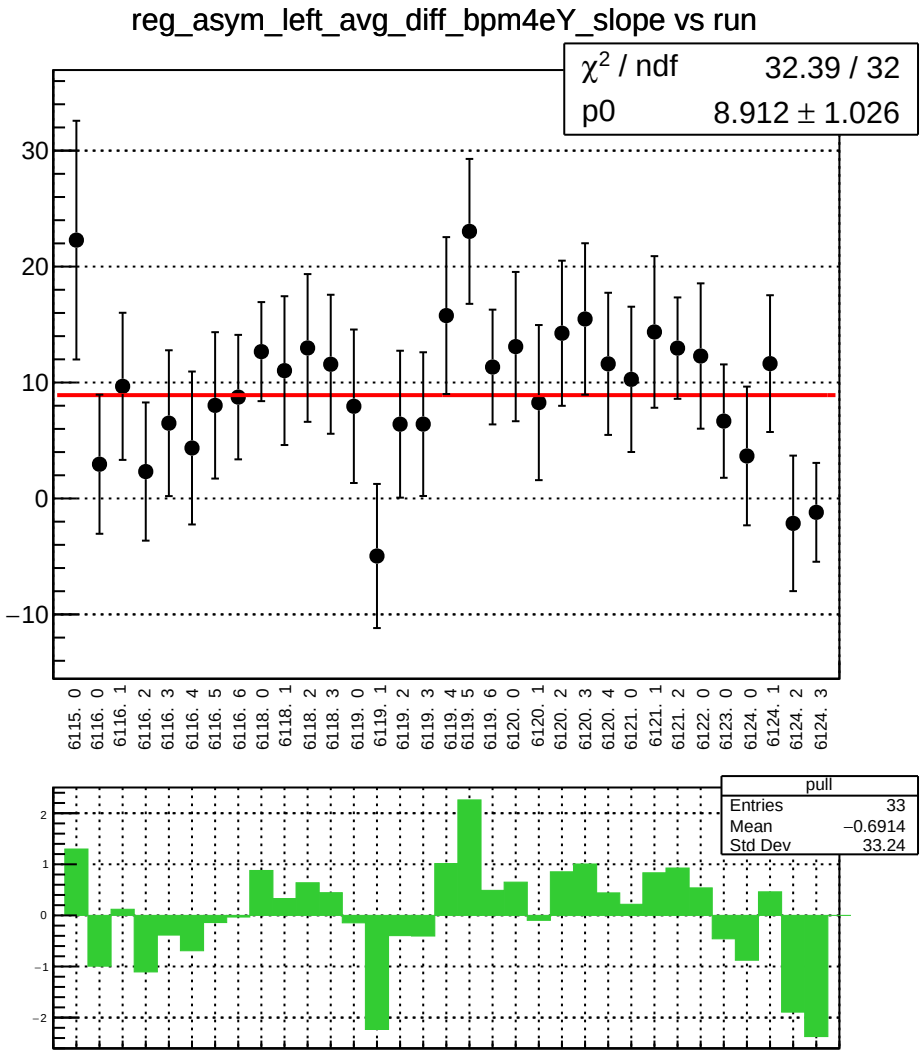

pull1D
Entries 33
Mean 0.01096
Std Dev 0.9454

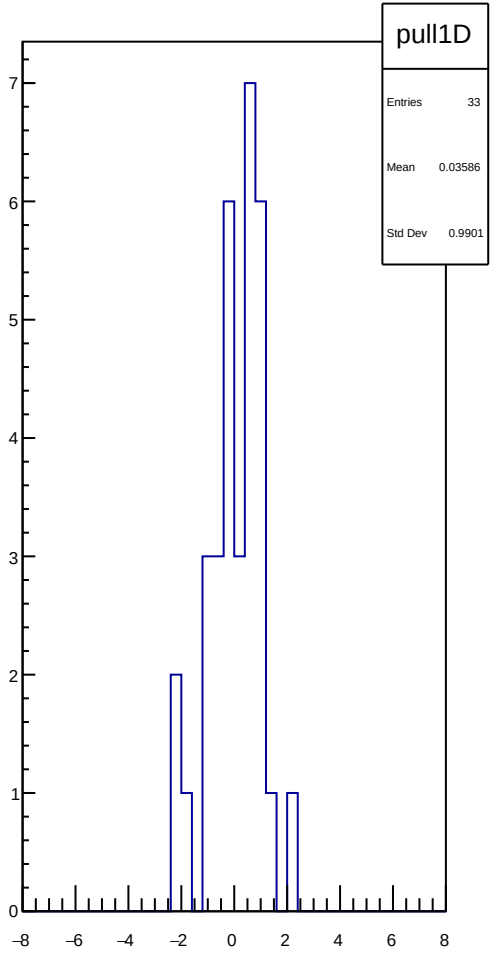

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 21.75 / 32
p0 −42.47 ± 1.534
−20
−30
−40
−50
−60
−70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 32.84
Std Dev 40.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.004951
Std Dev 0.8119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

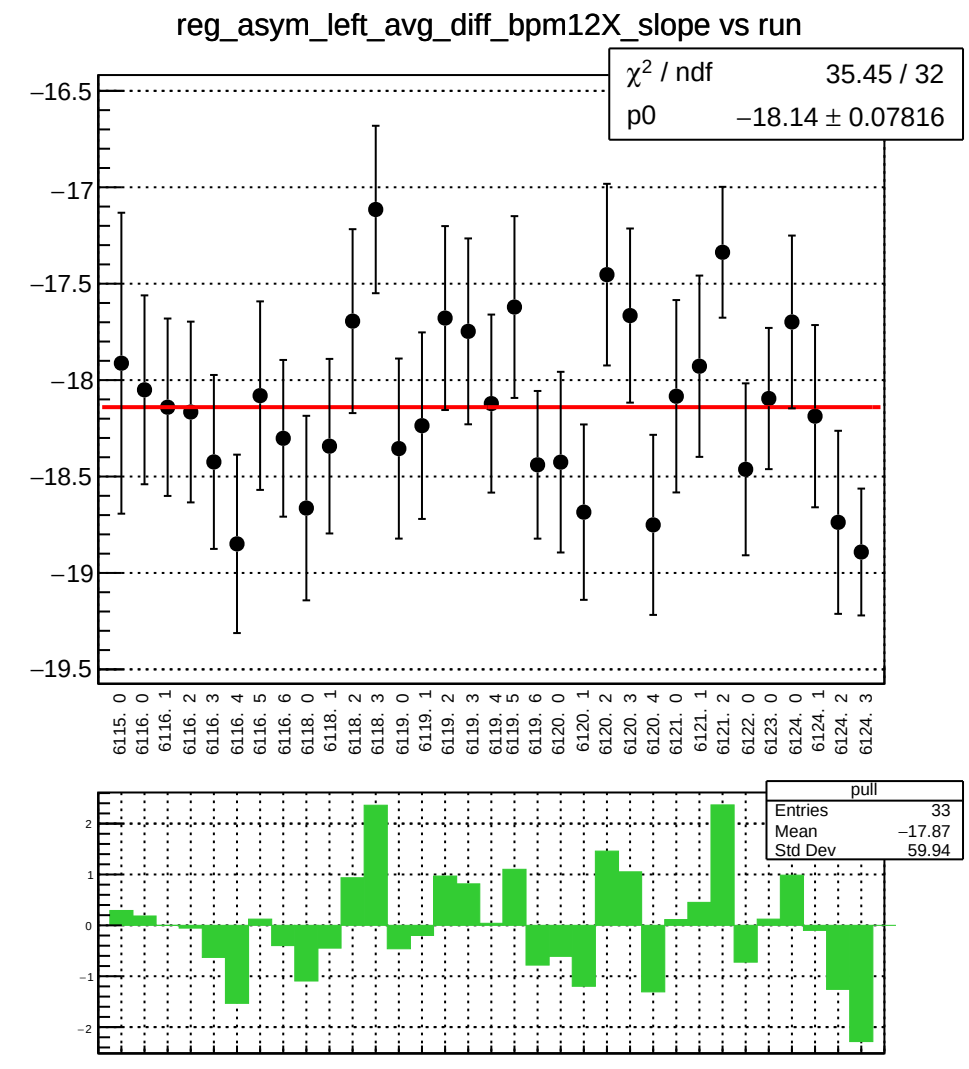

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.59 / 32
p0 1.178 ± 0.9607
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1.068
Std Dev 31.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.03755
Std Dev 0.9462
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

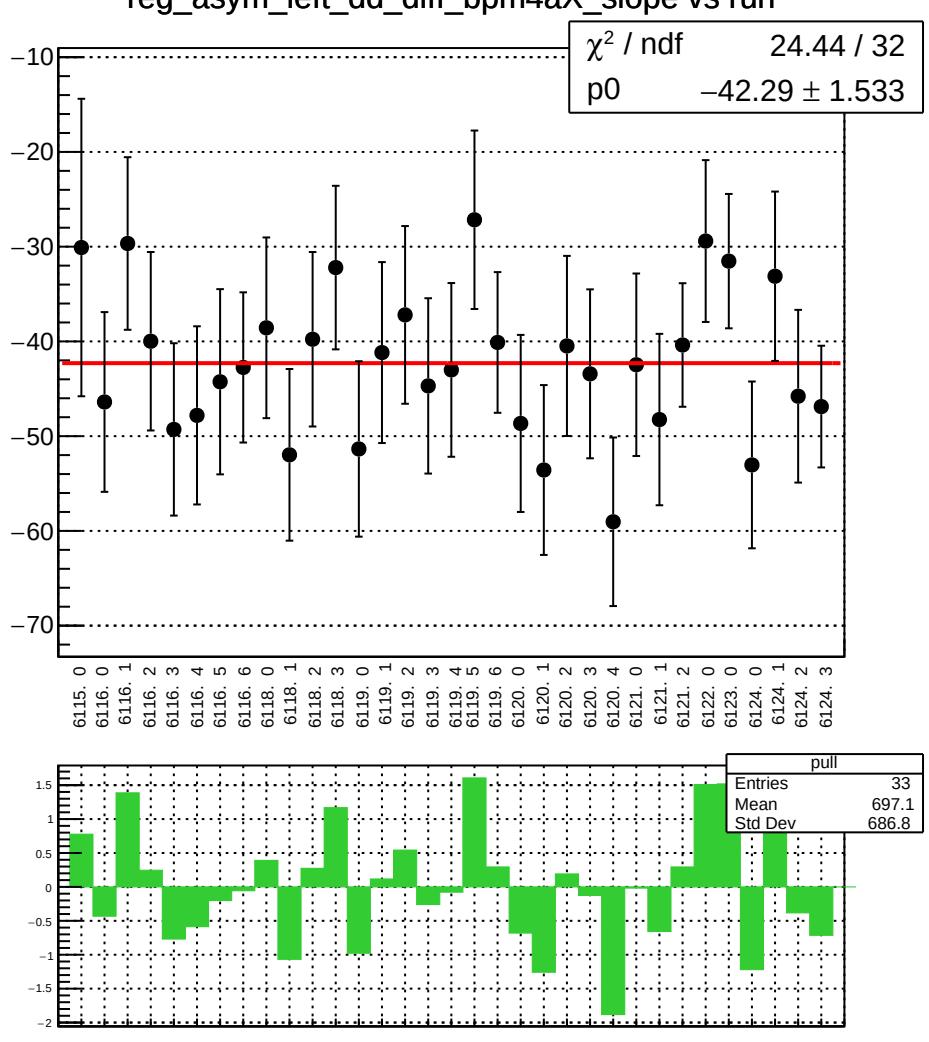

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.77 / 32
p0 25.87 ± 1.785
pull
Entries 33
Mean 28.47
Std Dev 30.89

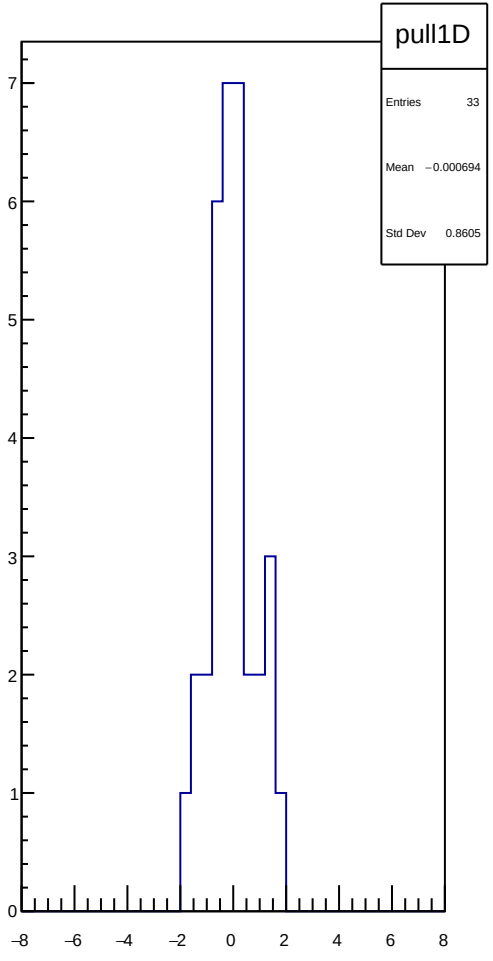

pull1D
Entries 33
Mean 0.008145
Std Dev 0.8306

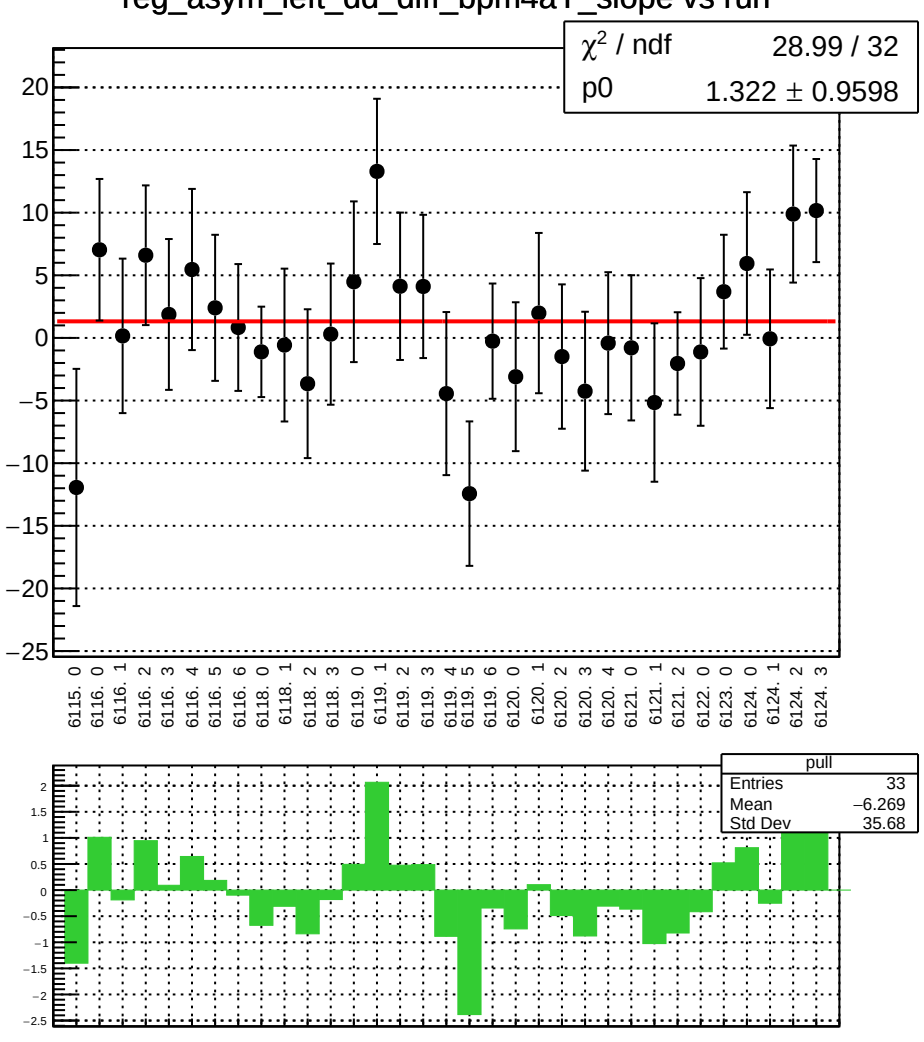

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.39 / 32
p0 8.912 ± 1.026
30
20
10
0
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −0.6914
Std Dev 33.24
2
1
0
−1
−2

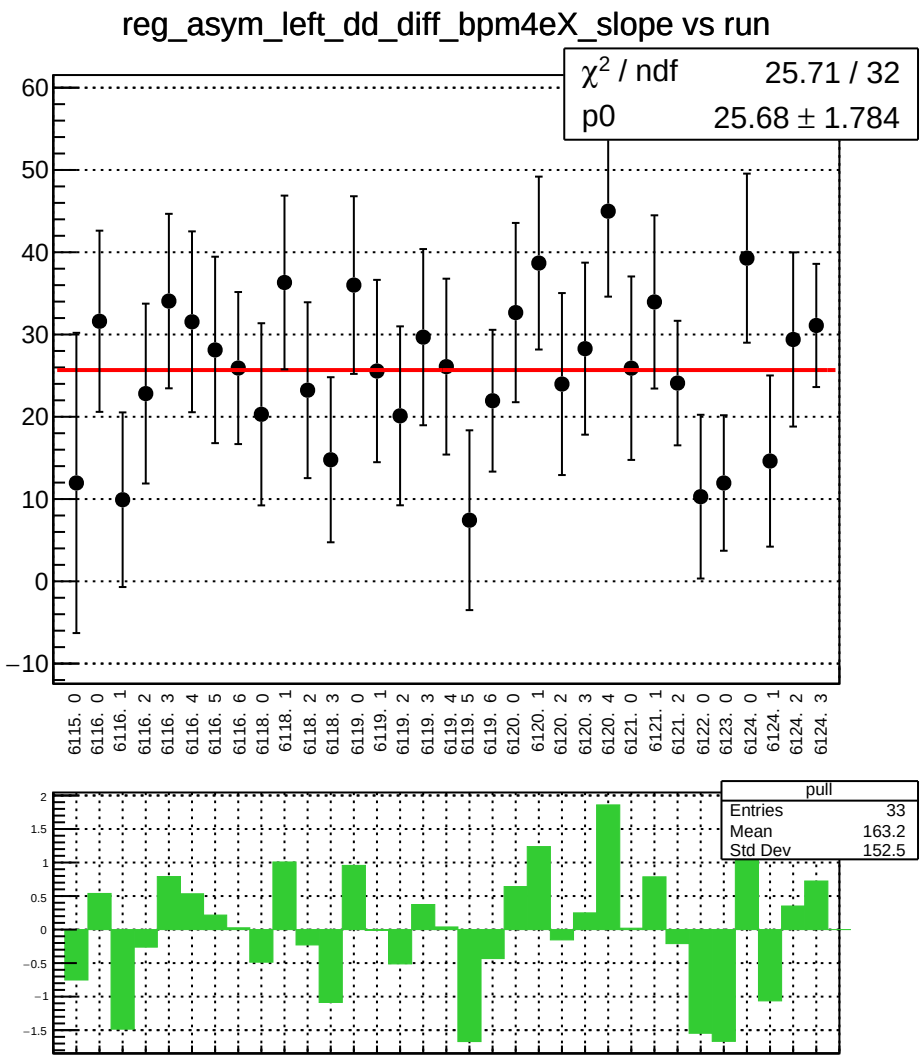

pull1D
Entries 33
Mean 0.03586
Std Dev 0.9901
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

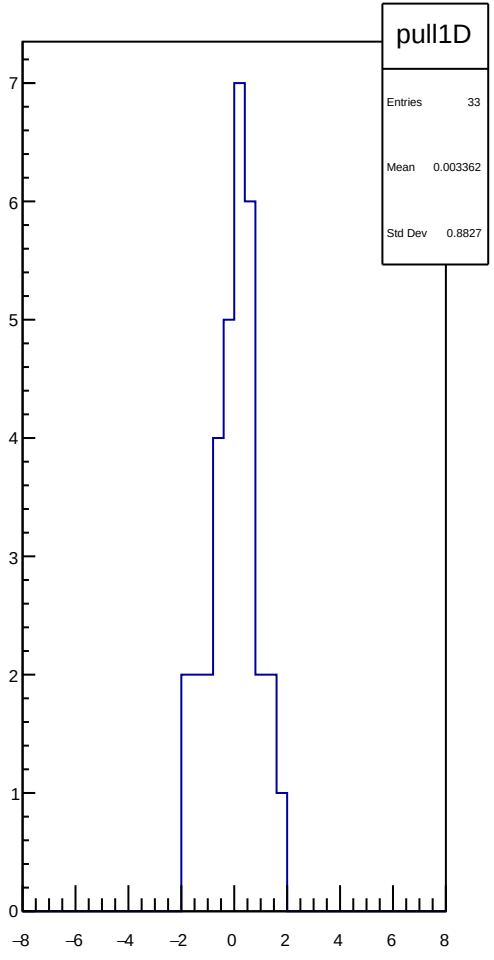

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 35.45 / 32
p0 −18.14 ± 0.07816
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −17.87
Std Dev 59.94
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.009037
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

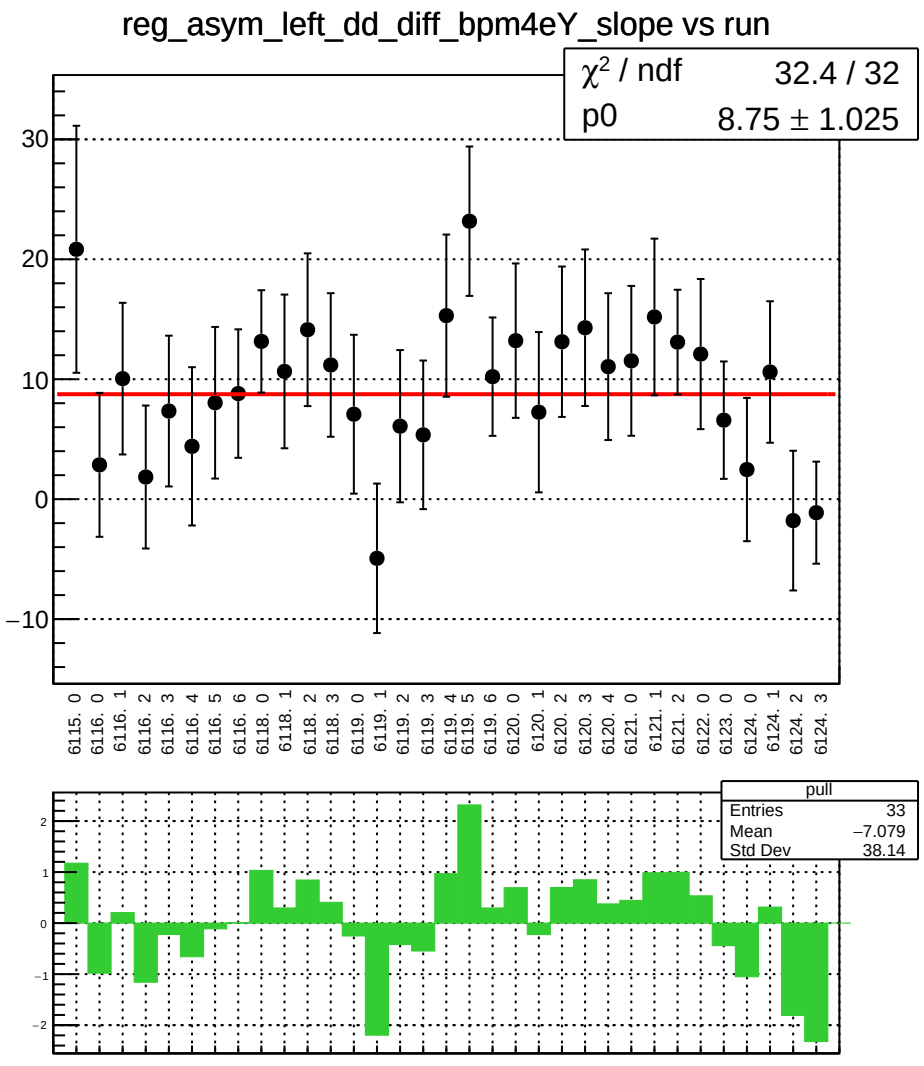

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.44 / 32
p0 −42.29 ± 1.533
pull
Entries 33
Mean 697.1
Std Dev 686.8

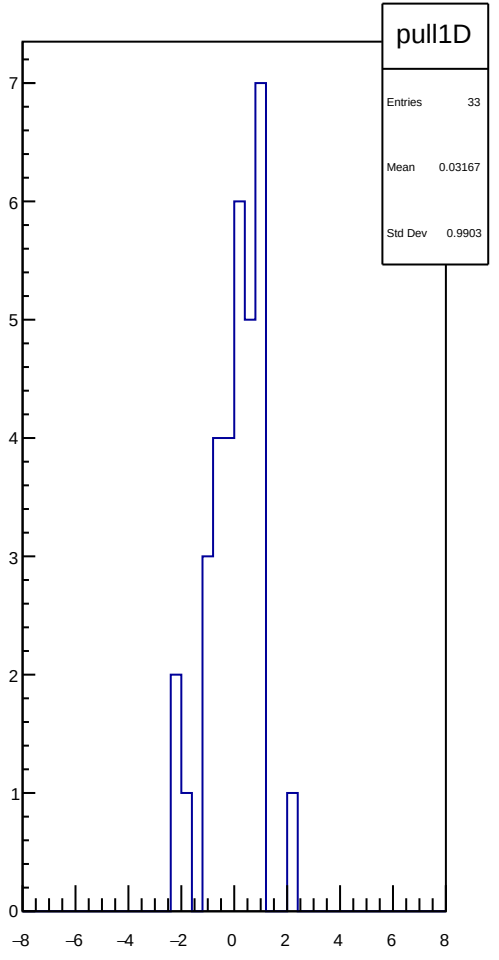

pull1D
Entries 33
Mean −0.000694
Std Dev 0.8605

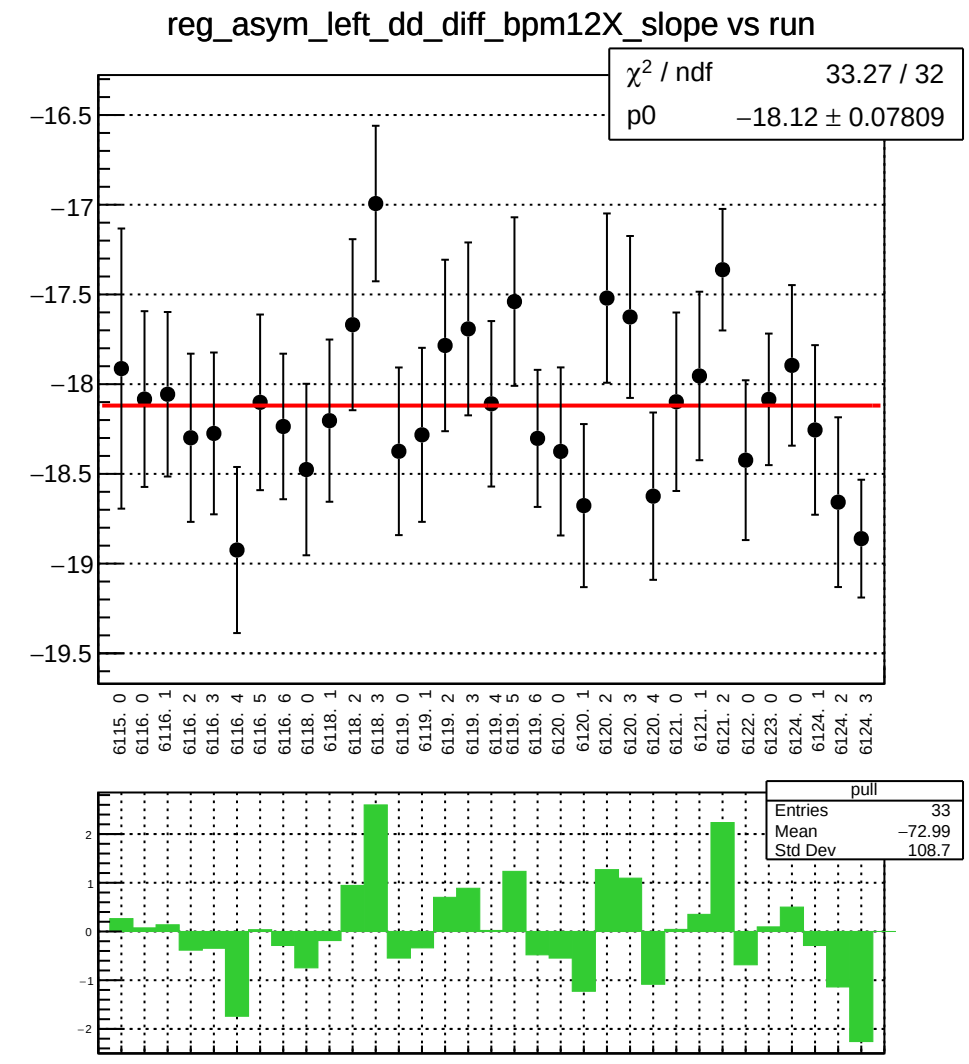

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.99 / 32
p0 1.322 ± 0.9598
pull
Entries 33
Mean −6.269
Std Dev 35.68
pull1D
Entries 33
Mean −0.03168
Std Dev 0.9368

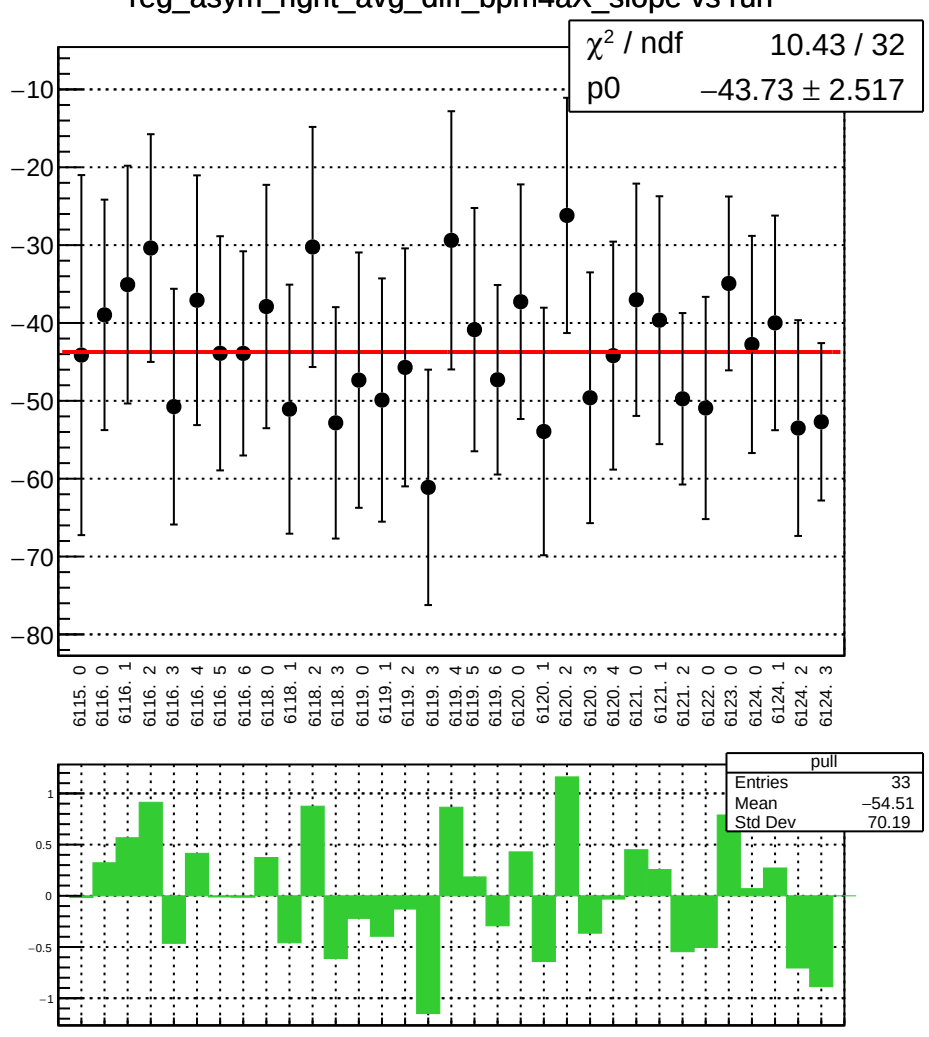

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.71 / 32
p0 25.68 ± 1.784
pull
Entries 33
Mean 163.2
Std Dev 152.5

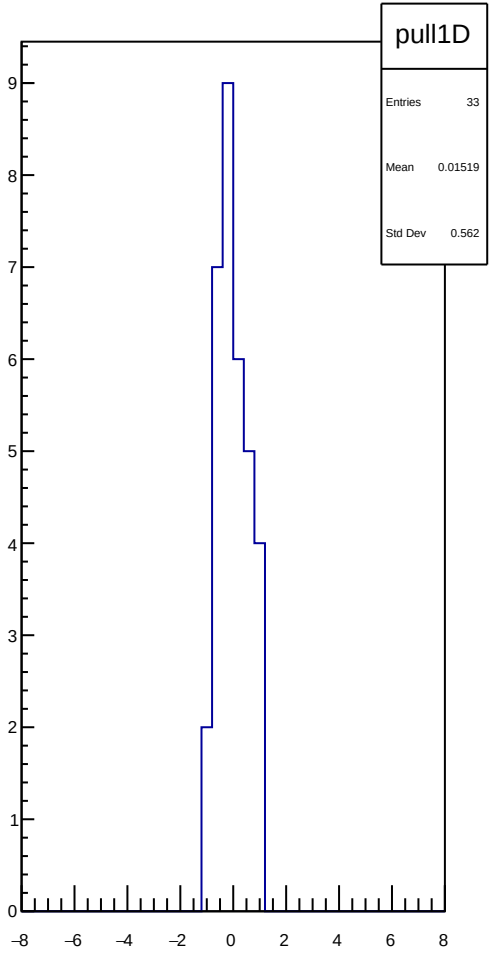

pull1D
Entries 33
Mean 0.003362
Std Dev 0.8827

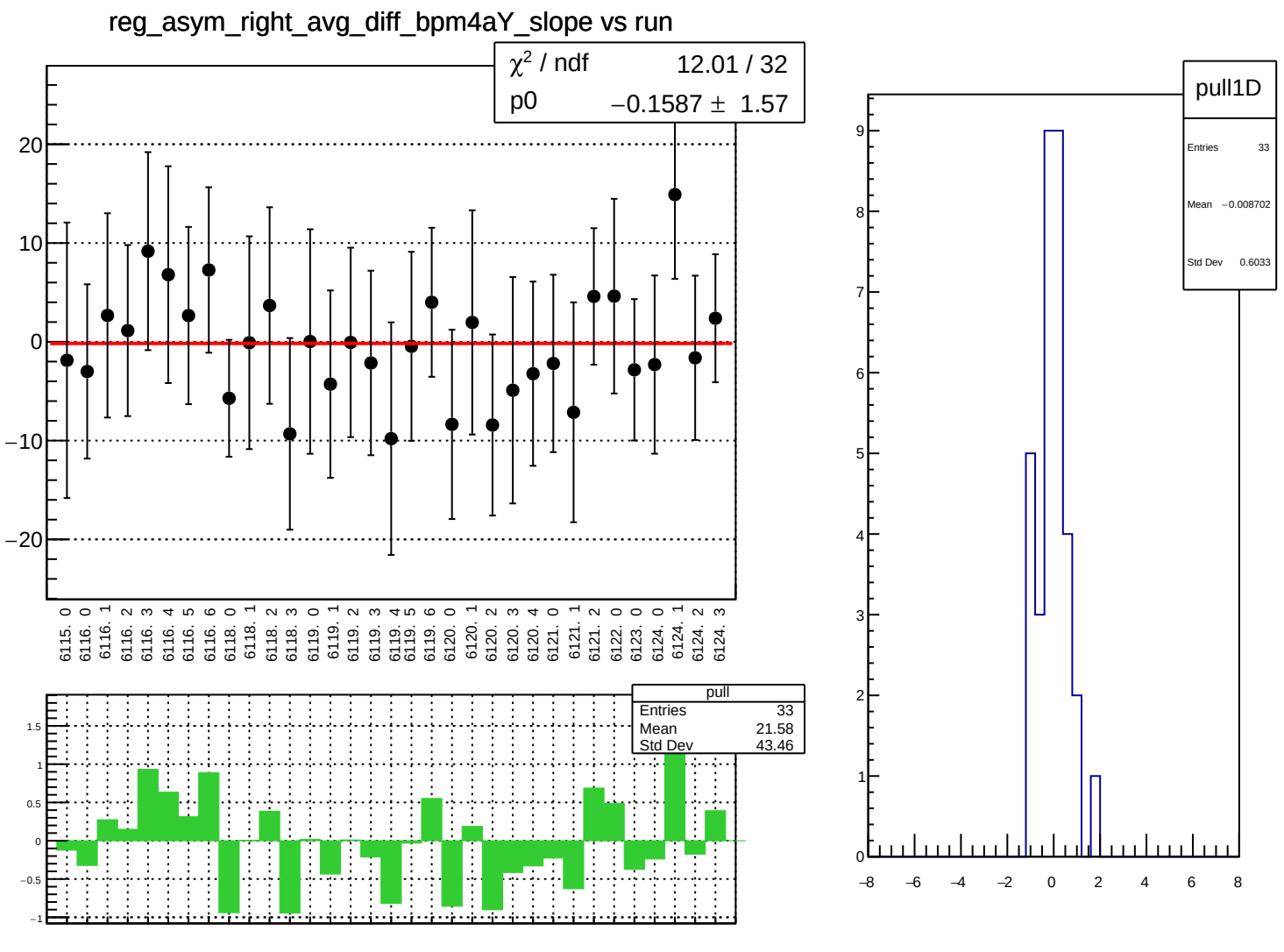

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.4 / 32
p0 8.75 ± 1.025
30
20
10
0
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −7.079
Std Dev 38.14
2
1
0
−1
−2

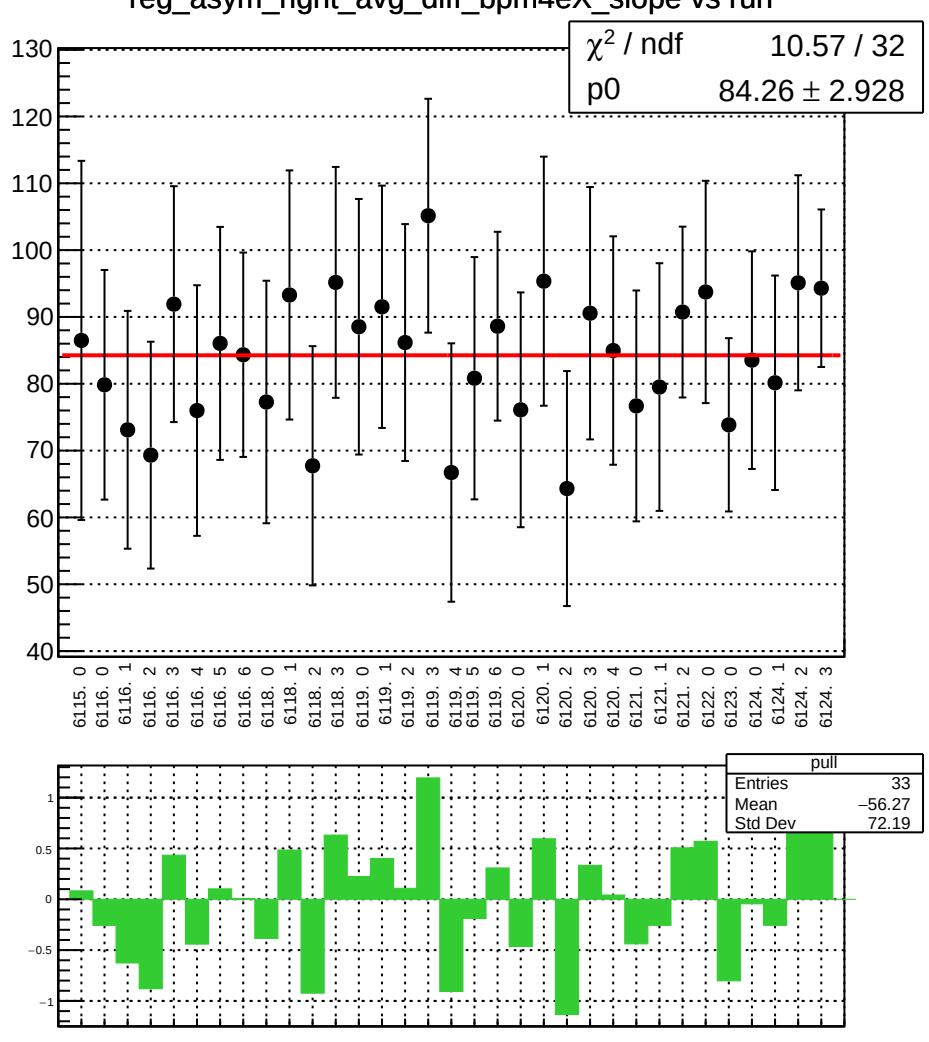

pull1D
Entries 33
Mean 0.03167
Std Dev 0.9903
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

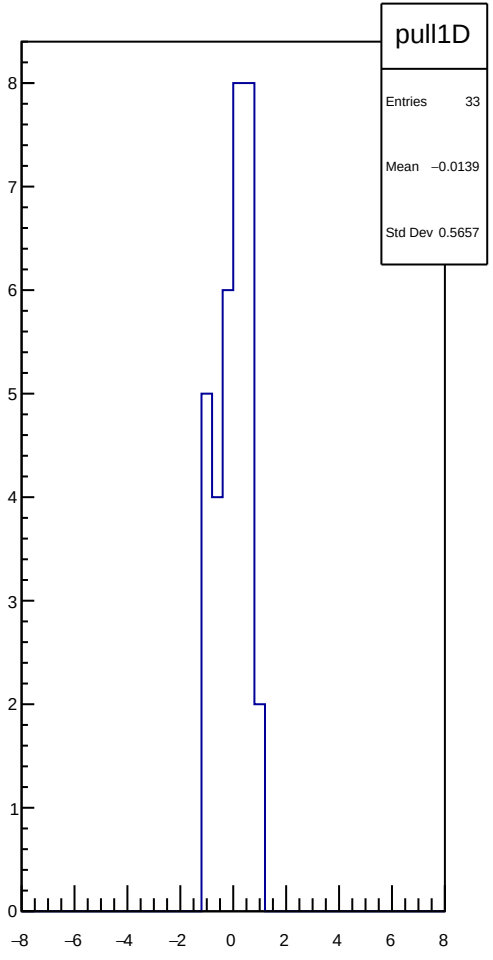

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 33.27 / 32
p0 −18.12 ± 0.07809
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −72.99
Std Dev 108.7
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.006596
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

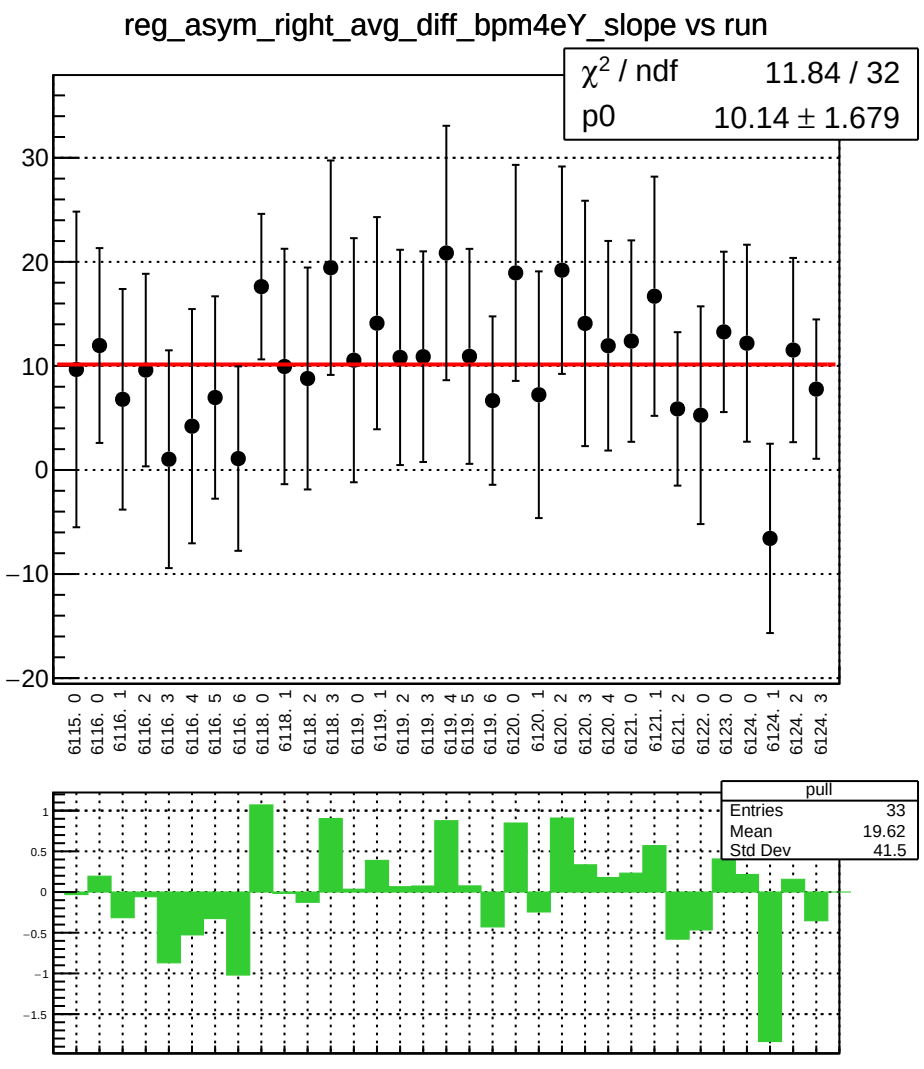

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.43 / 32
p0 −43.73 ± 2.517
pull
Entries 33
Mean −54.51
Std Dev 70.19

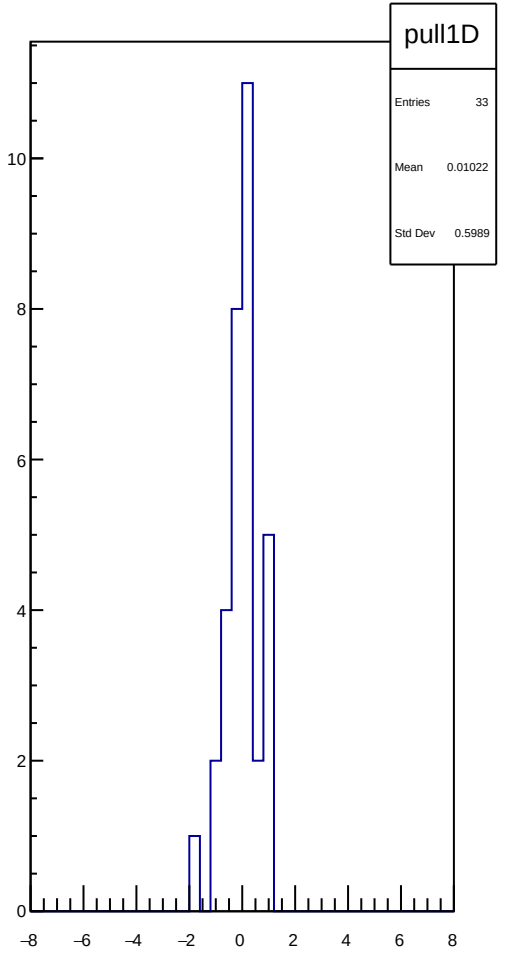

pull1D
Entries 33
Mean 0.01519
Std Dev 0.562

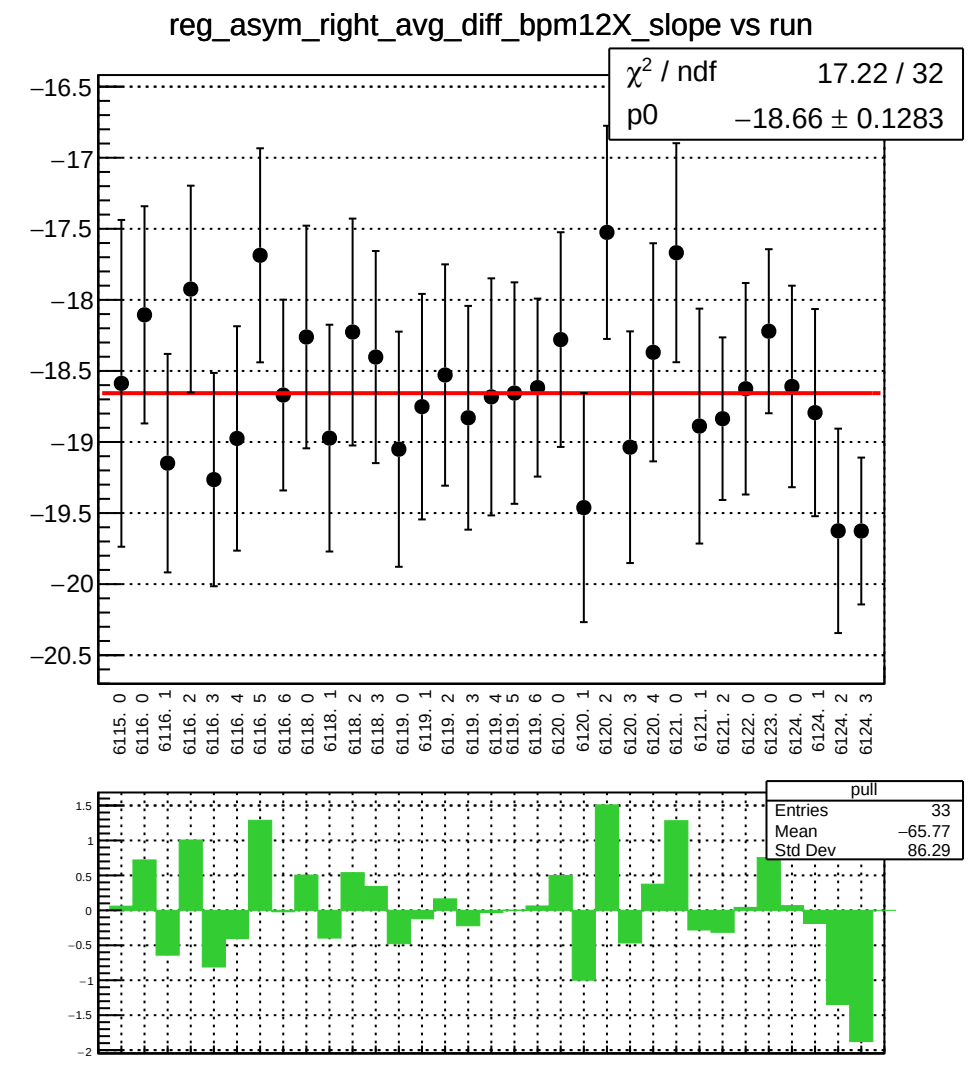

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.01 / 32
p0 −0.1587 ± 1.57
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 21.58
Std Dev 43.46
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.008702
Std Dev 0.6033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

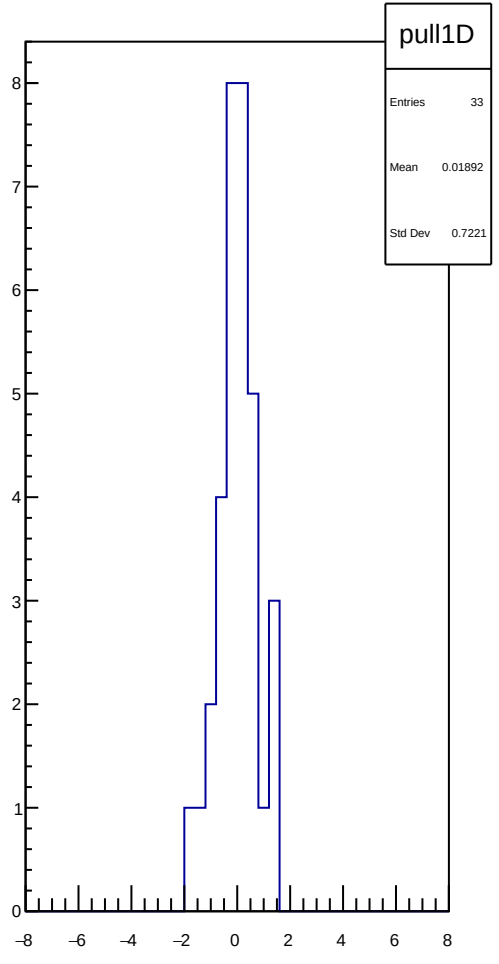

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.57 / 32
p0 84.26 ± 2.928
130
120
110
100
90
80
70
60
50
40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −56.27
Std Dev 72.19
1
0.5
0
−0.5
−1

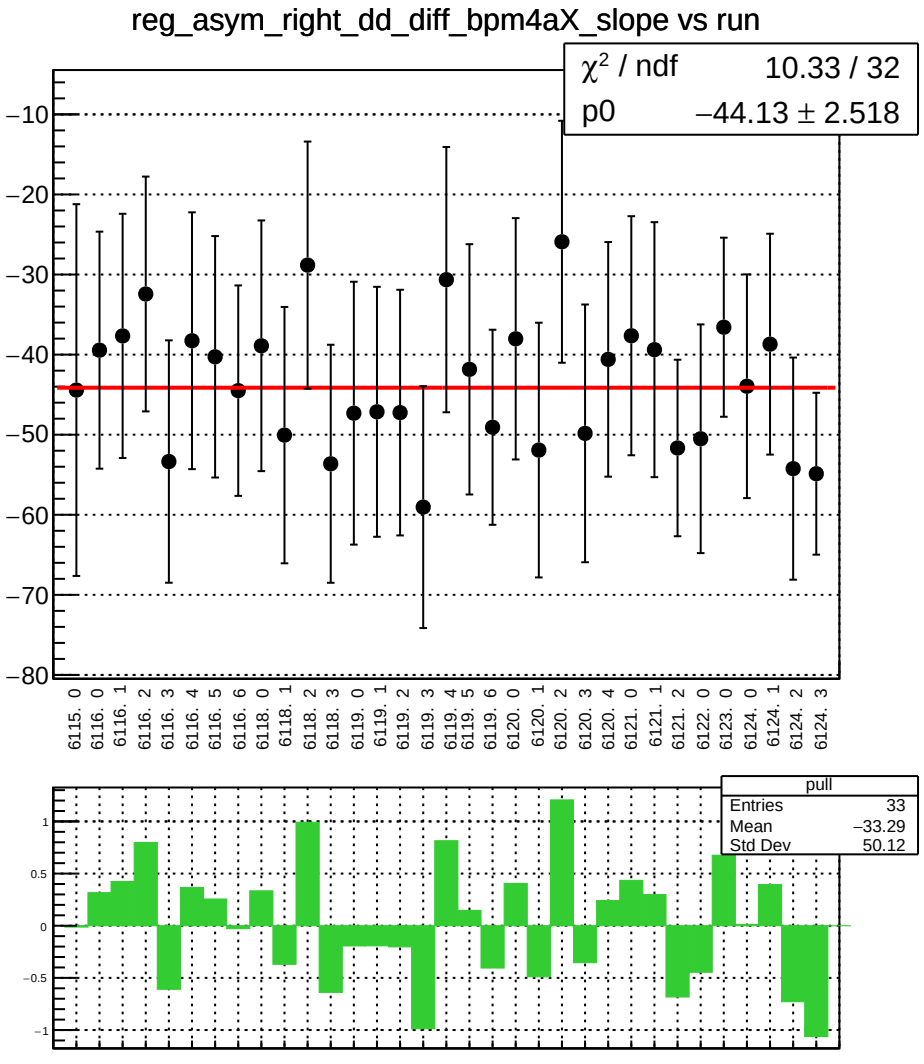

pull1D
Entries 33
Mean −0.0139
Std Dev 0.5657
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

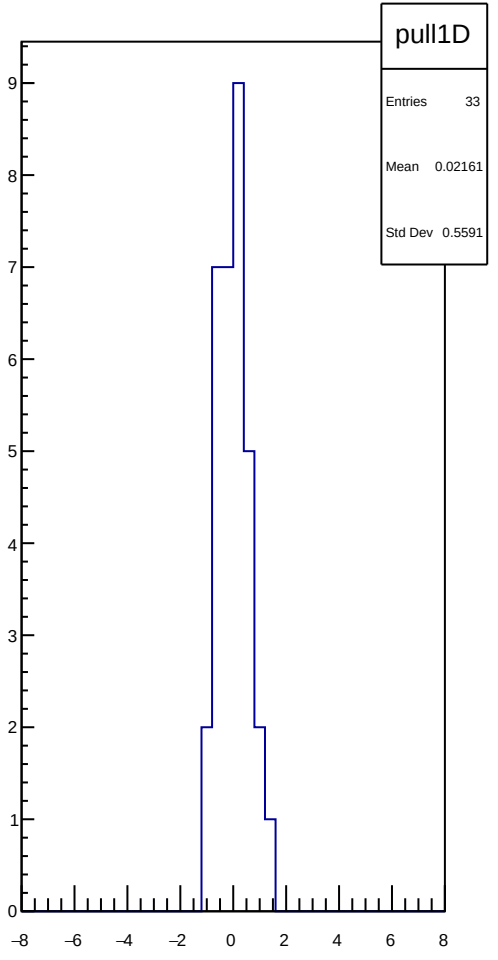

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.84 / 32
p0 10.14 ± 1.679
30
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 19.62
Std Dev 41.5
1
0.5
0
−0.5
−1
−1.5

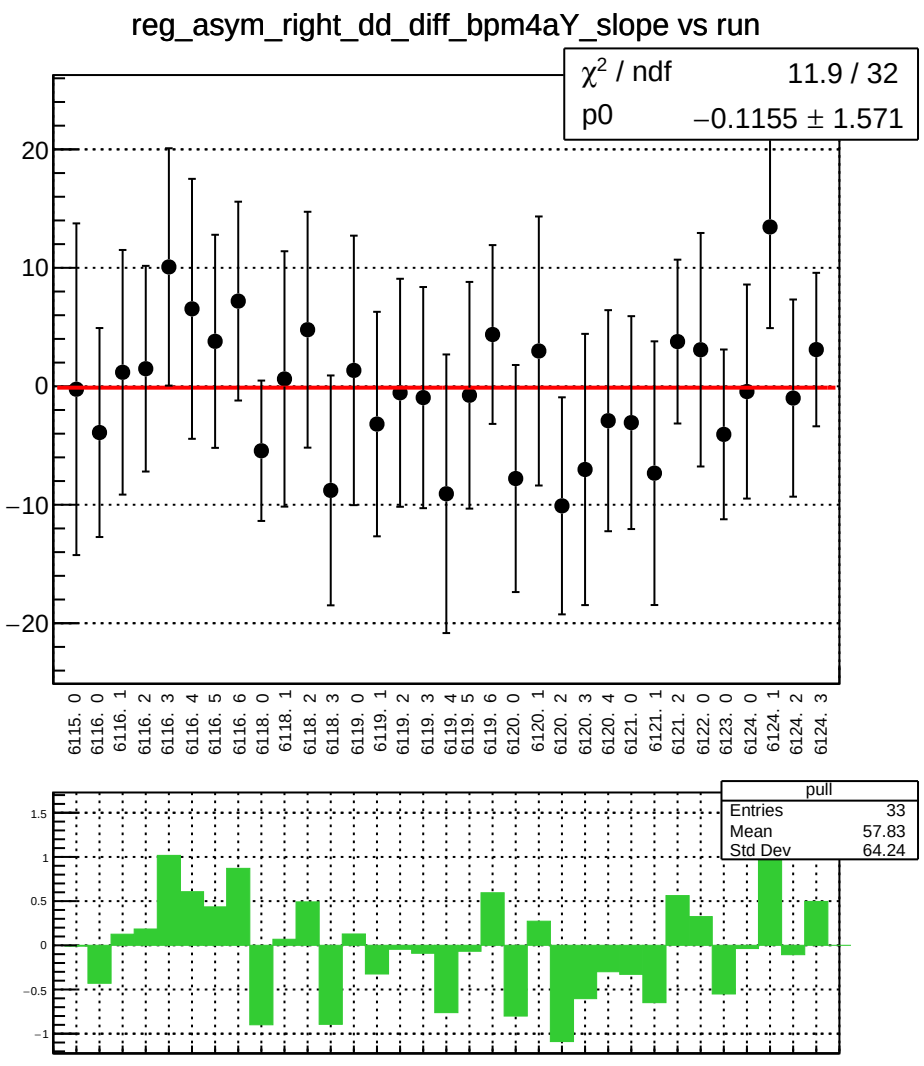

pull1D
Entries 33
Mean 0.01022
Std Dev 0.5989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

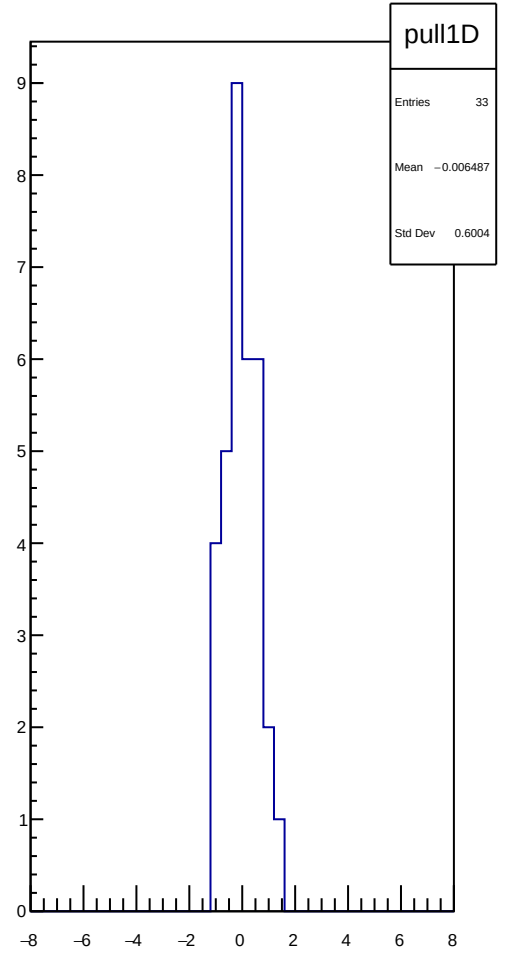

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 17.22 / 32
p0 −18.66 ± 0.1283
pull
Entries 33
Mean −65.77
Std Dev 86.29

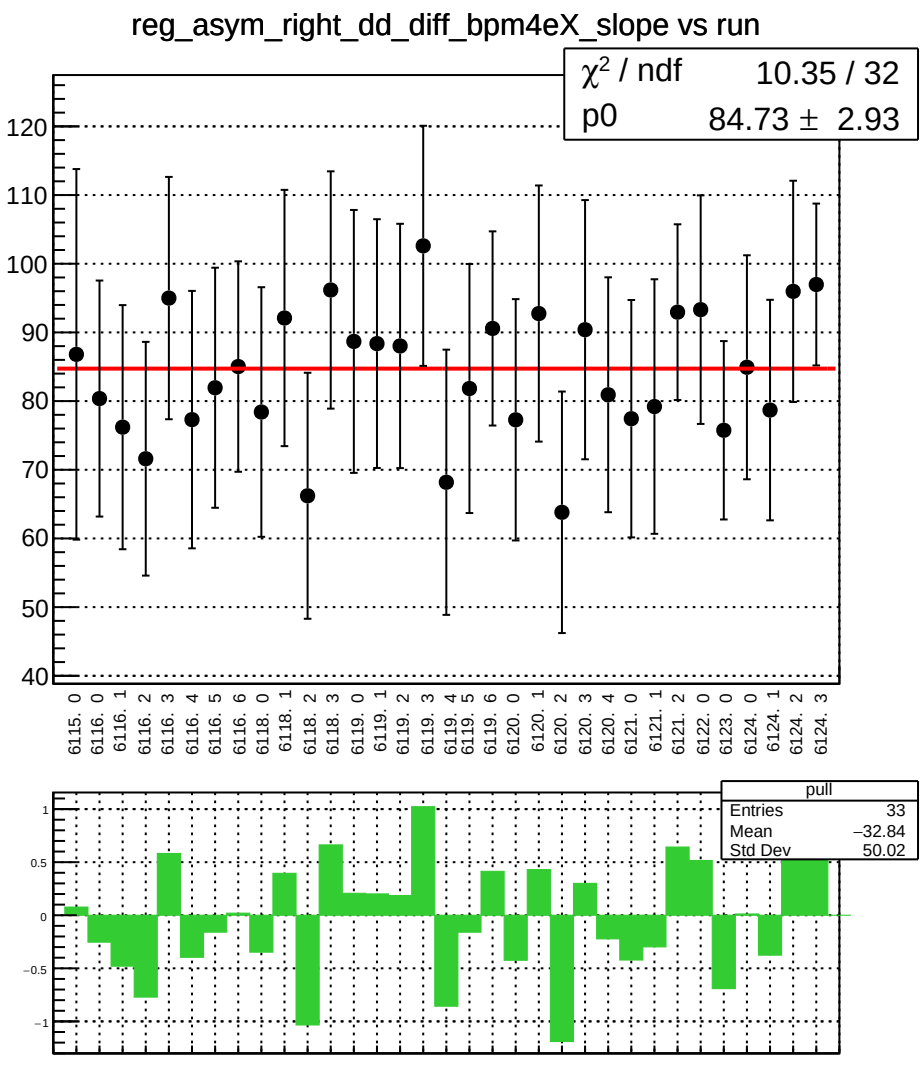

pull1D
Entries 33
Mean 0.01892
Std Dev 0.7221

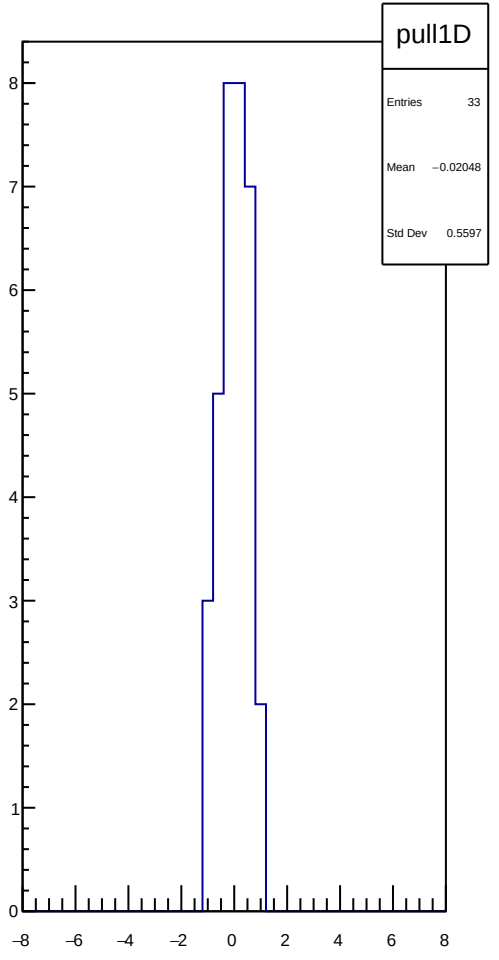

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.33 / 32
p0 −44.13 ± 2.518
−10
−20
−30
−40
−50
−60
−70
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −33.29
Std Dev 50.12
1
0.5
0
−0.5
−1

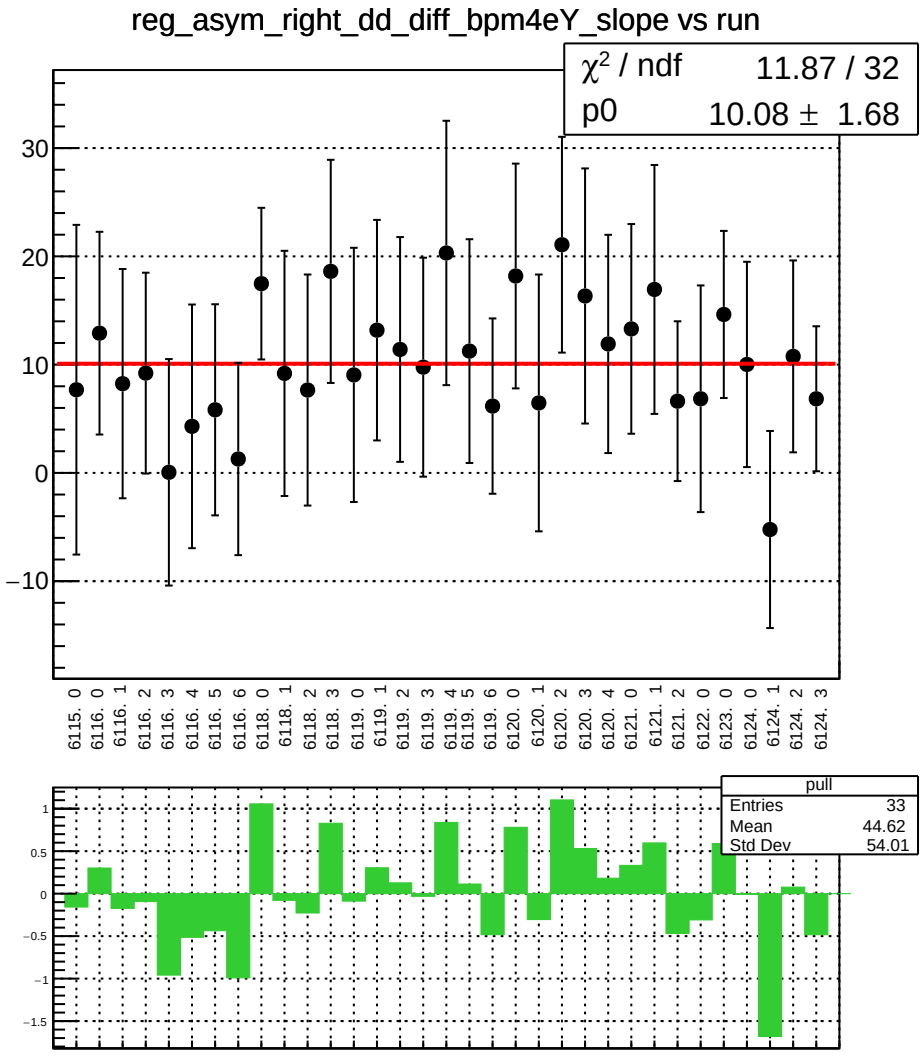

pull1D
Entries 33
Mean 0.02161
Std Dev 0.5591
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

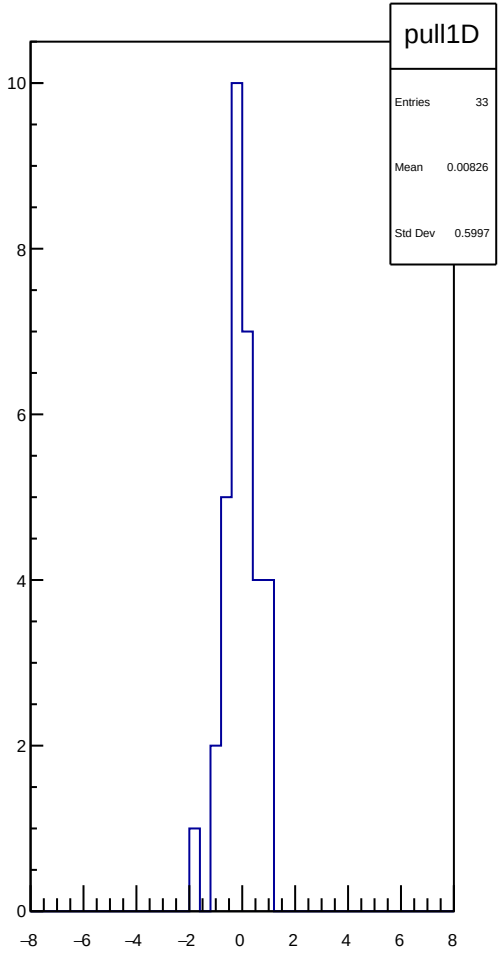

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.9 / 32
p0 −0.1155 ± 1.571
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 57.83
Std Dev 64.24
1.5
1
0.5
0
−0.5
−1

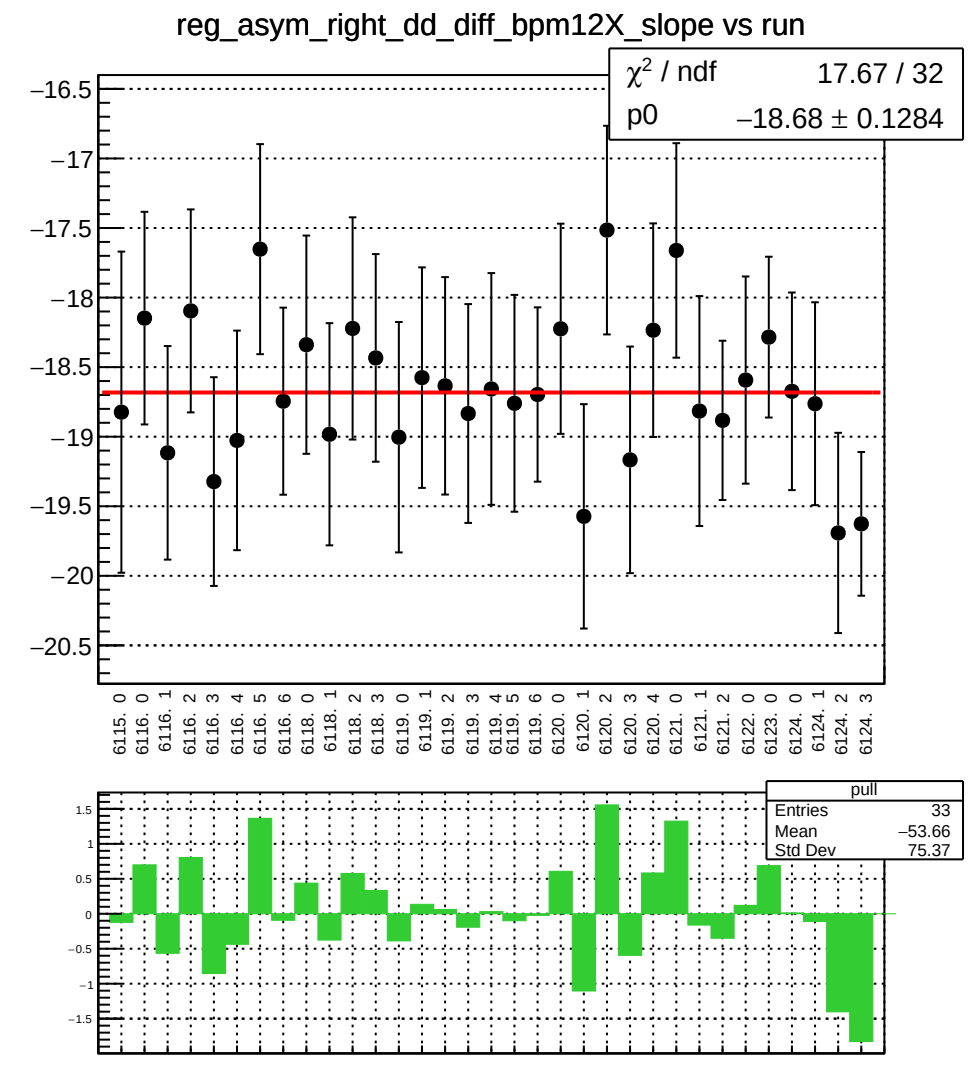

pull1D
Entries 33
Mean −0.006487
Std Dev 0.6004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

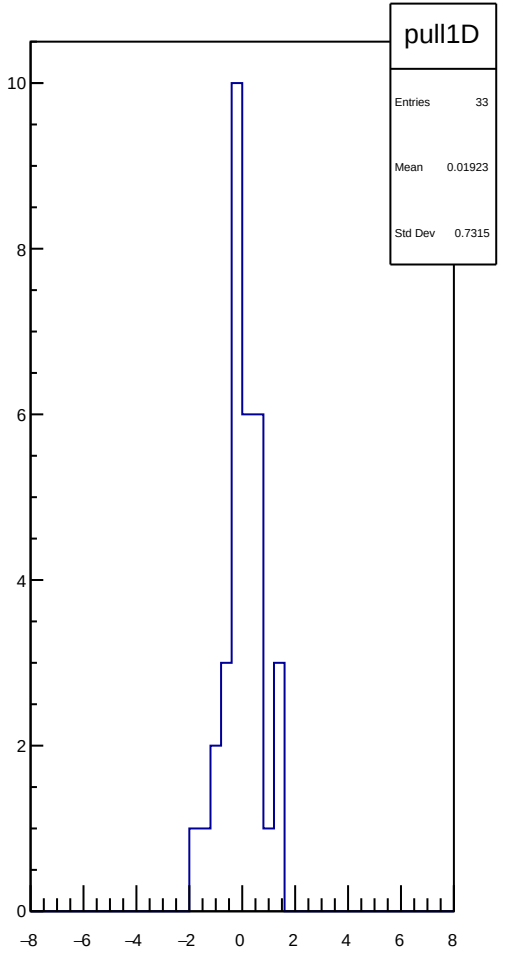

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.35 / 32
p0 84.73 ± 2.93
120
110
100
90
80
70
60
50
40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −32.84
Std Dev 50.02
1
0.5
0
−0.5
−1

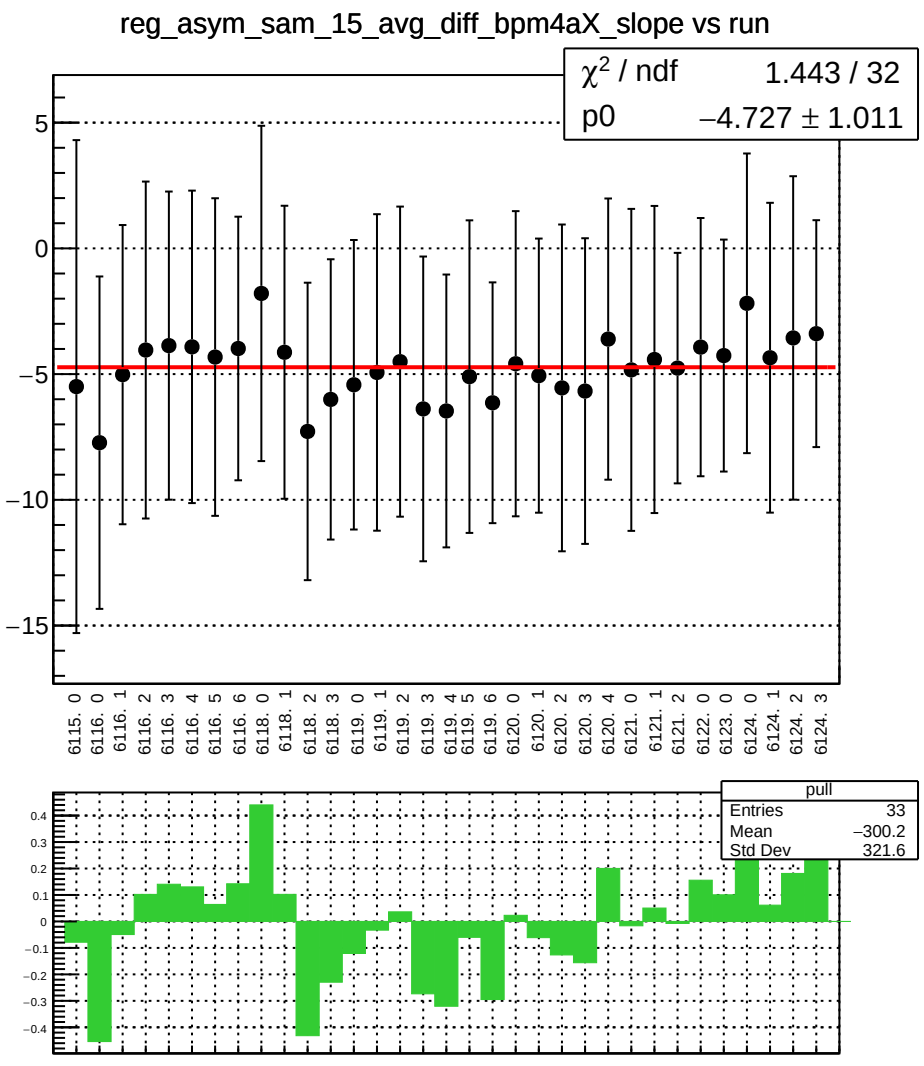

pull1D
Entries 33
Mean −0.02048
Std Dev 0.5597
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

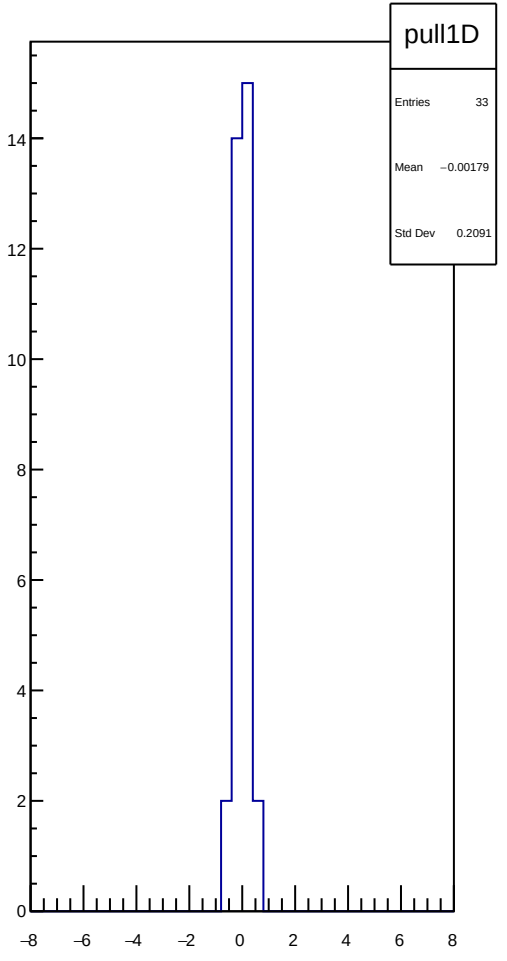

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.87 / 32
p0 10.08 ± 1.68
30
20
10
0
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 44.62
Std Dev 54.01
1
0.5
0
−0.5
−1
−1.5

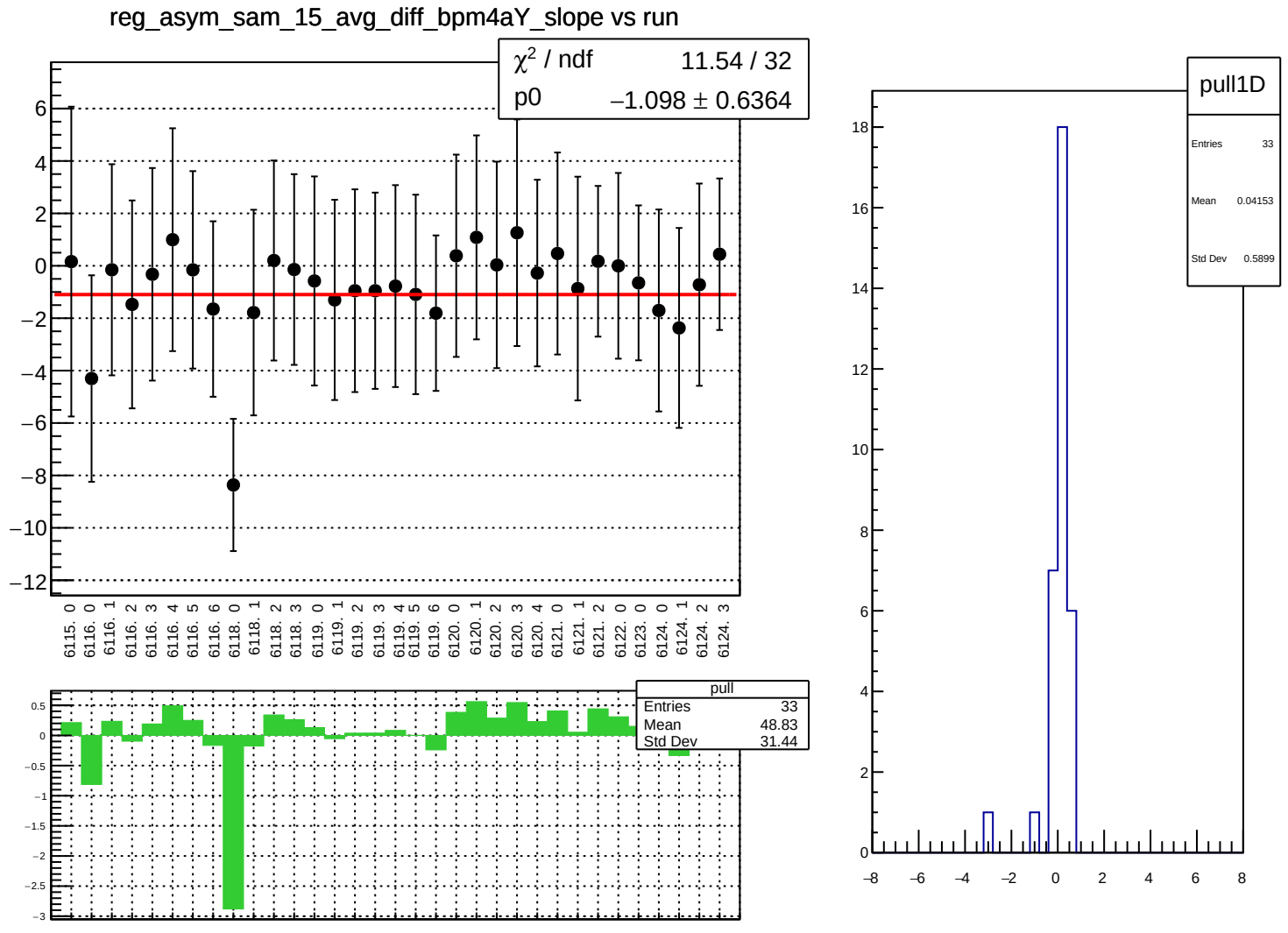

pull1D
Entries 33
Mean 0.00826
Std Dev 0.5997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

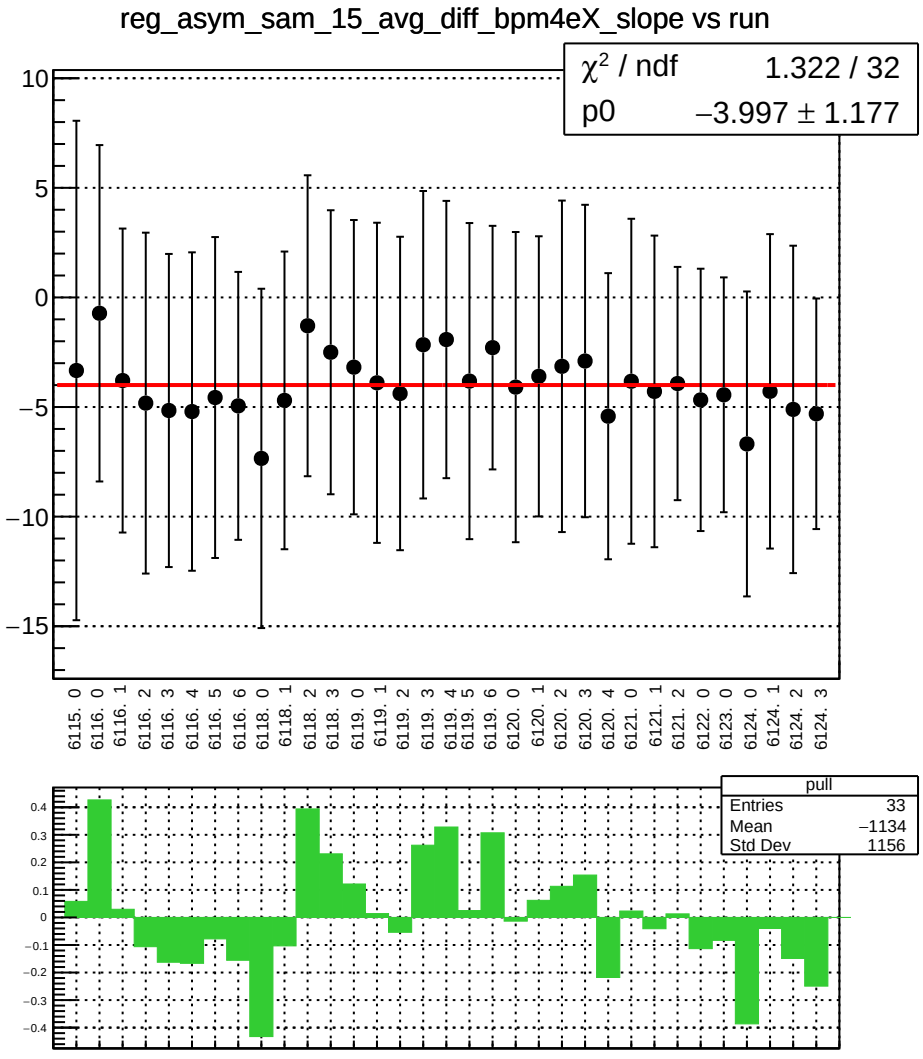

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 17.67 / 32
p0 −18.68 ± 0.1284
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −53.66
Std Dev 75.37
1.5
1
0.5
0
−0.5
−1
−1.5

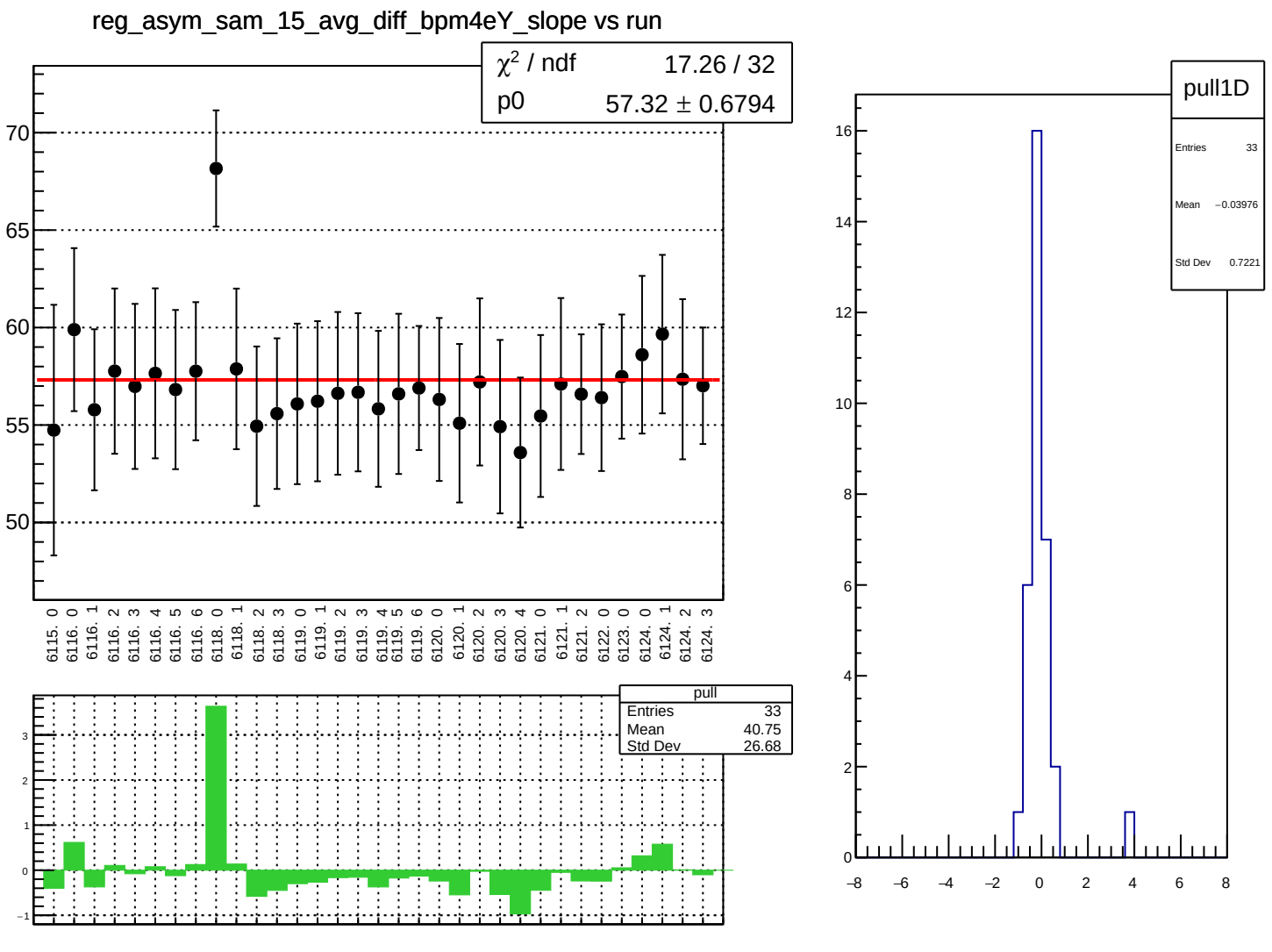

pull1D
Entries 33
Mean 0.01923
Std Dev 0.7315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

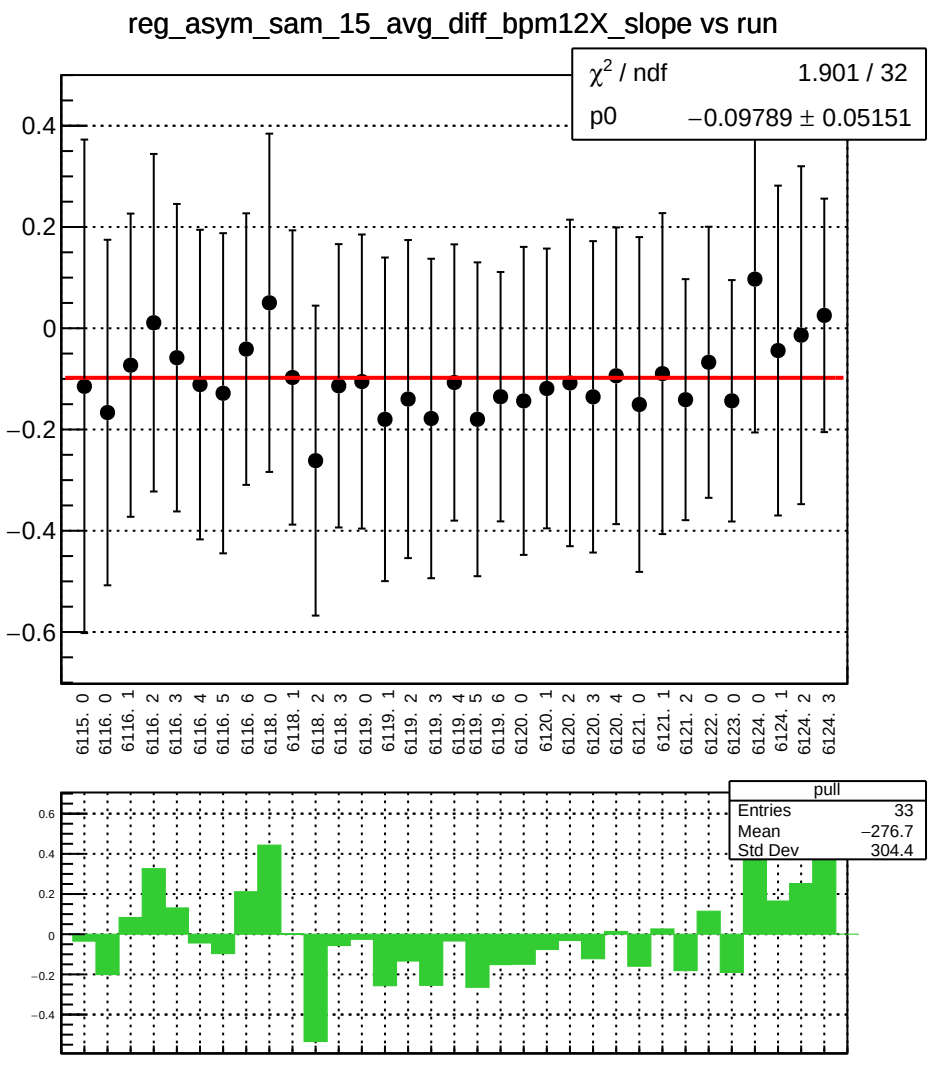

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.443 / 32
p0 −4.727 ± 1.011
5
0
−5
−10
−15
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −300.2
Std Dev 321.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

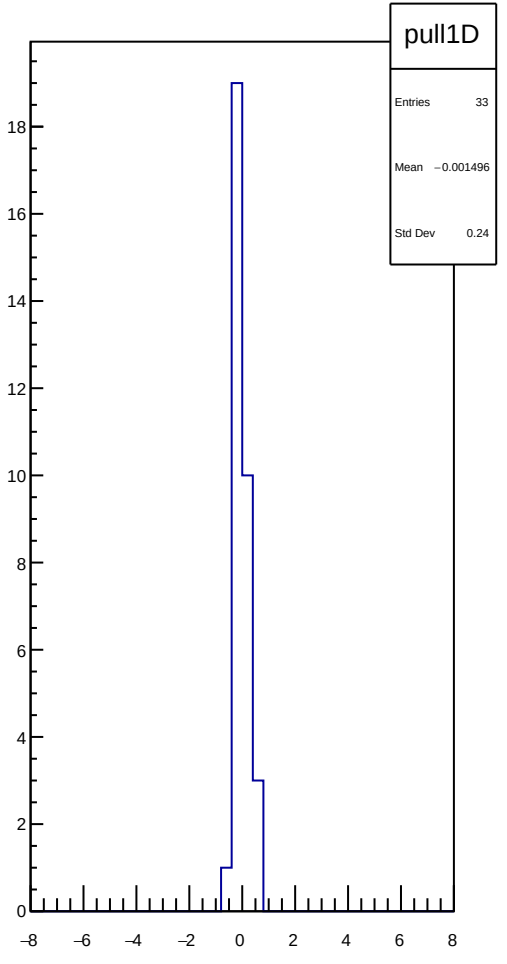

pull1D
Entries 33
Mean −0.00179
Std Dev 0.2091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

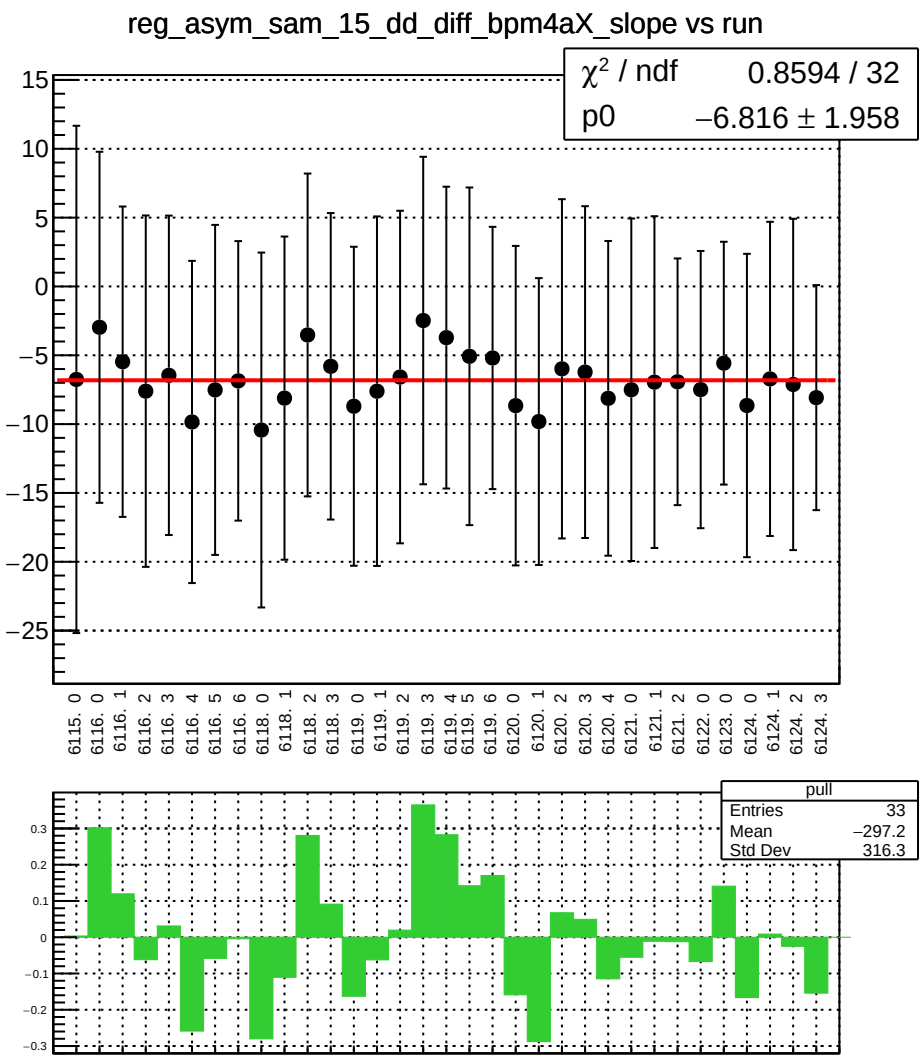

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.54 / 32
p0 −1.098 ± 0.6364
pull
Entries 33
Mean 48.83
Std Dev 31.44
pull1D
Entries 33
Mean 0.04153
Std Dev 0.5899

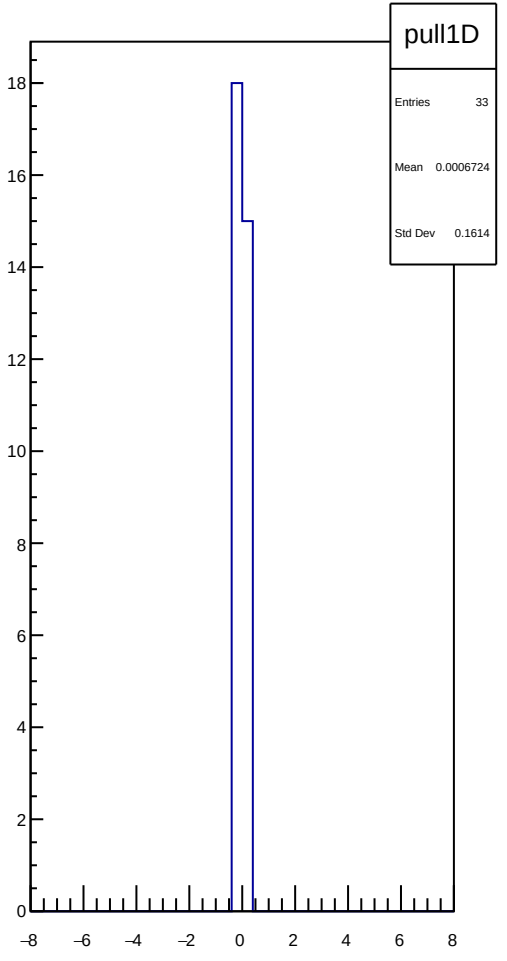

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.322 / 32
p0 −3.997 ± 1.177
10
5
0
−5
−10
−15
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1134
Std Dev 1156
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 33
Mean 0.0003614
Std Dev 0.2002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

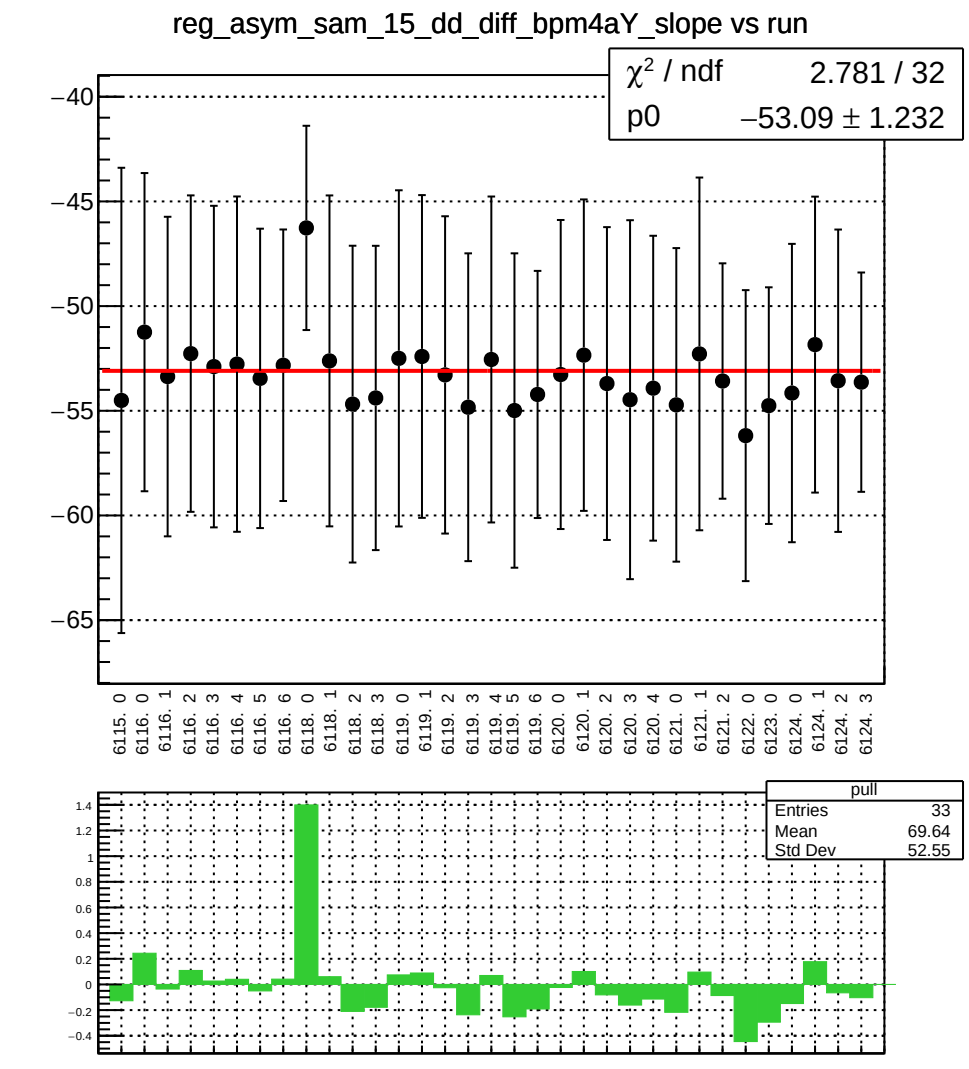

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.26 / 32
p0 57.32 ± 0.6794
70
65
60
55
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 40.75
Std Dev 26.68
3
2
1
0
−1
pull1D
Entries 33
Mean −0.03976
Std Dev 0.7221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

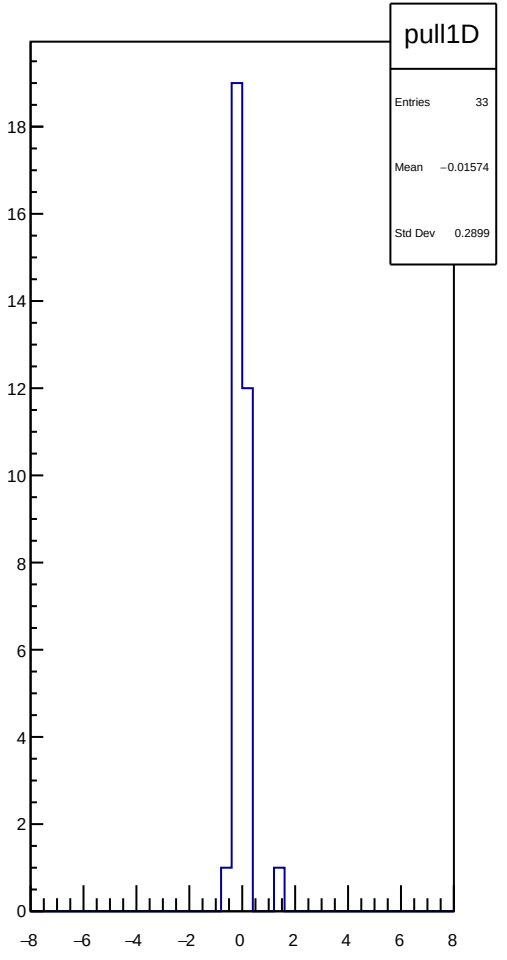

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1.901 / 32
p0 −0.09789 ± 0.05151
0.4
0.2
0
−0.2
−0.4
−0.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −276.7
Std Dev 304.4
0.6
0.4
0.2
0
−0.2
−0.4

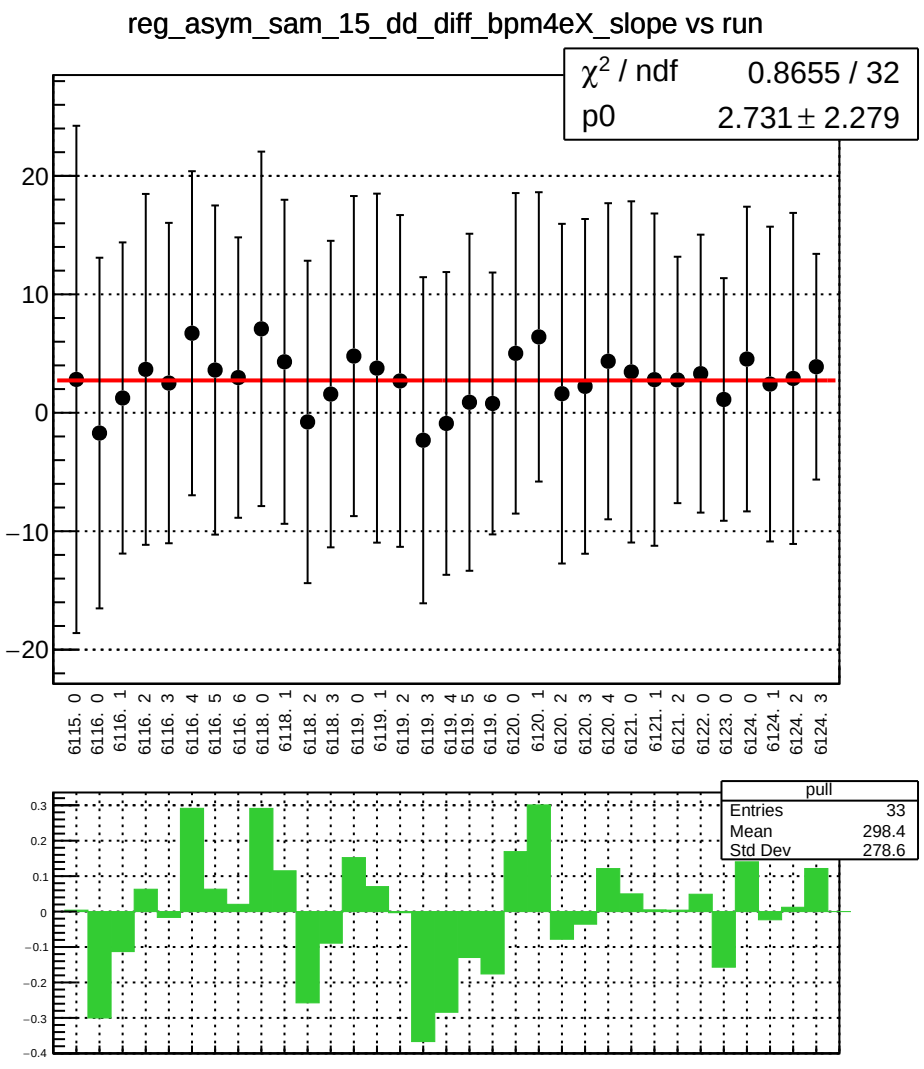

pull1D
Entries 33
Mean −0.001496
Std Dev 0.24
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

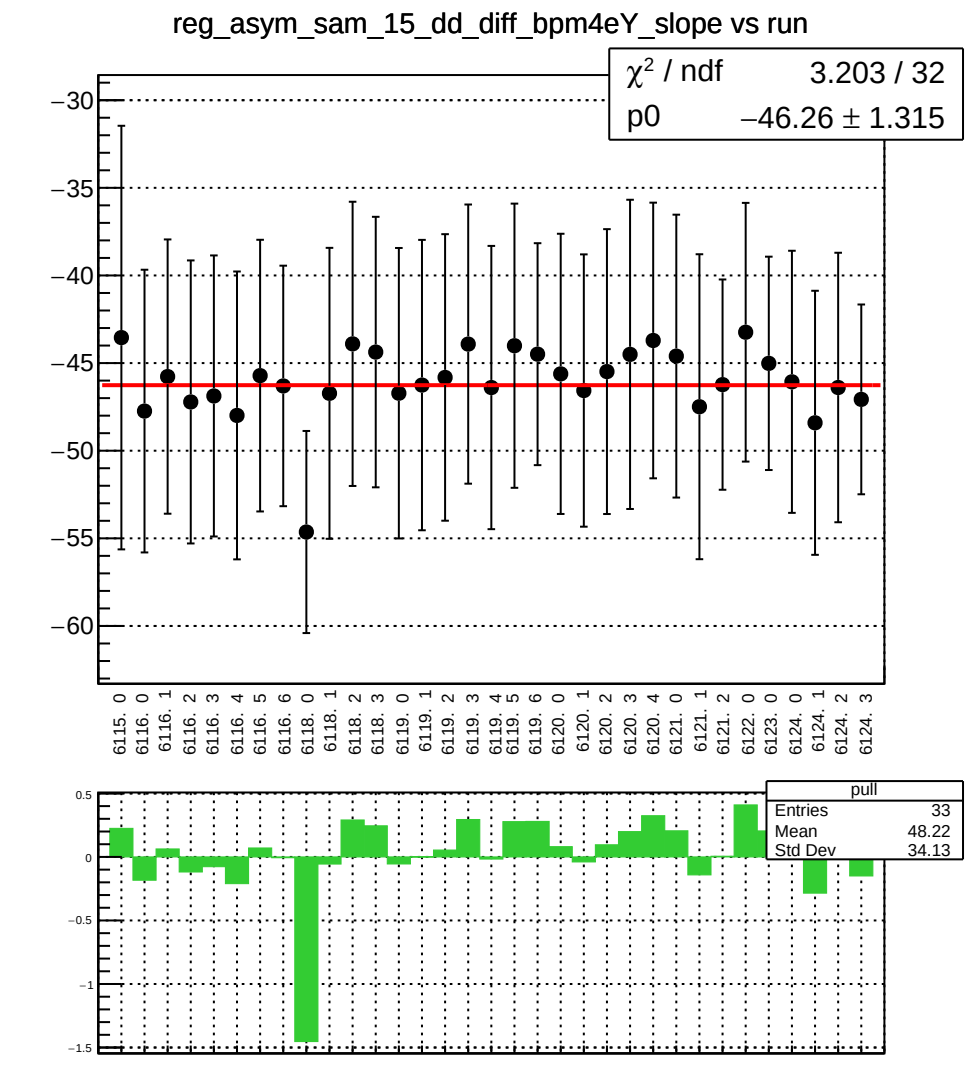

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.8594 / 32
p0 −6.816 ± 1.958
15
10
5
0
−5
−10
−15
−20
−25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −297.2
Std Dev 316.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

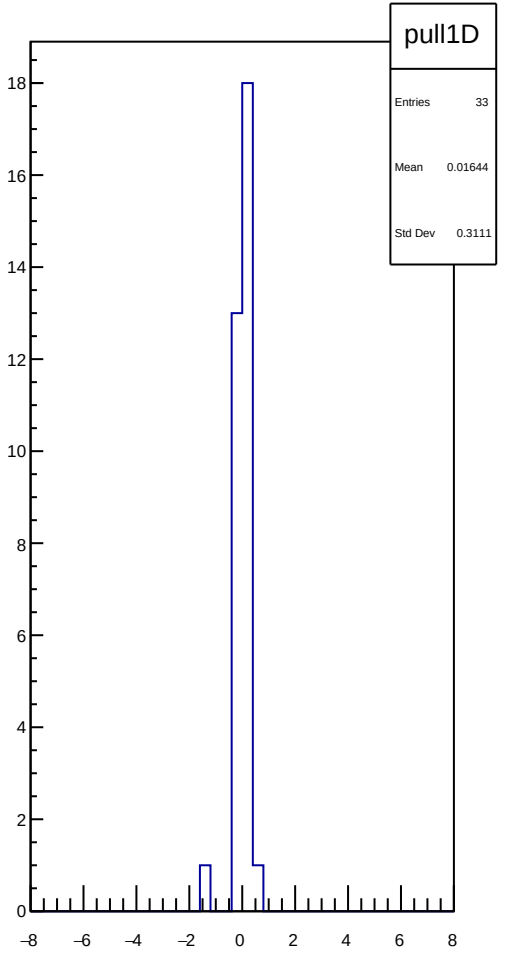

pull1D
Entries 33
Mean 0.0006724
Std Dev 0.1614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

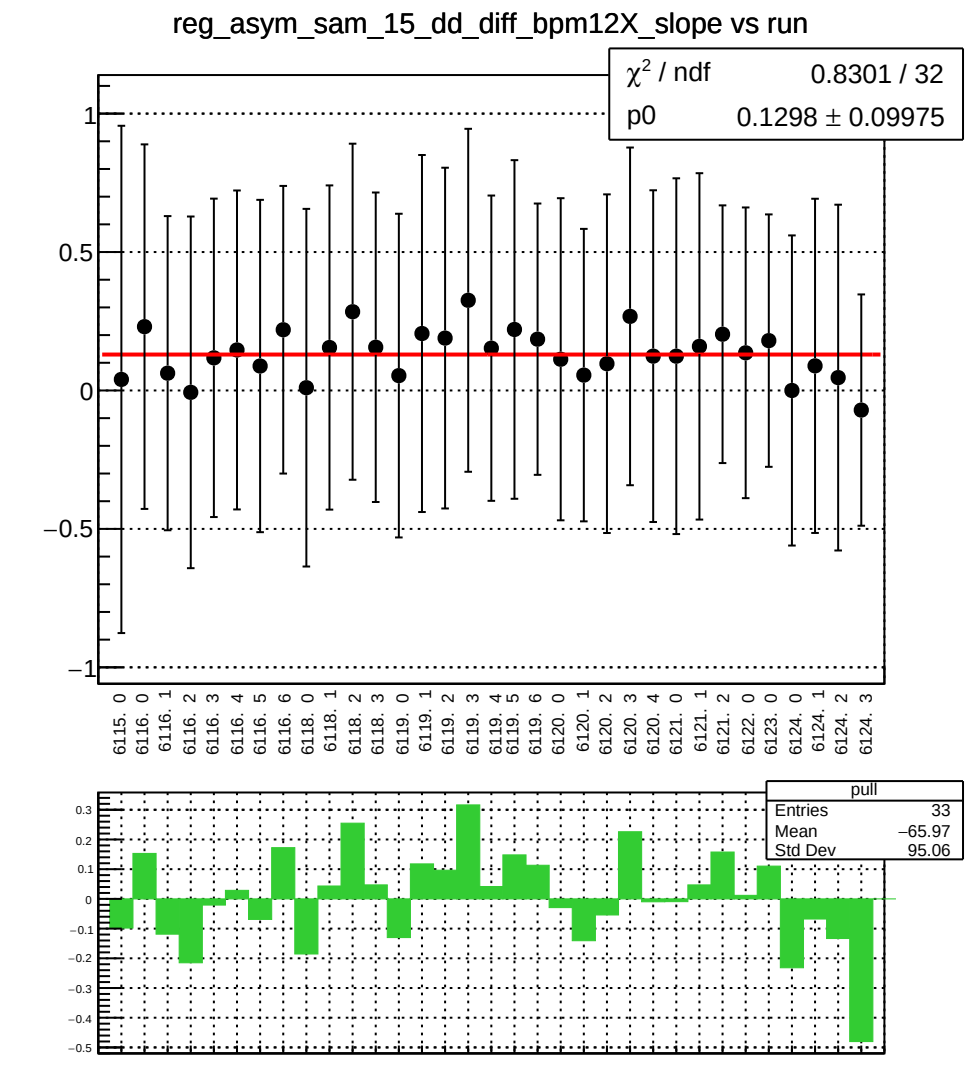

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.781 / 32
p0 −53.09 ± 1.232
−40
−45
−50
−55
−60
−65
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 69.64
Std Dev 52.55
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

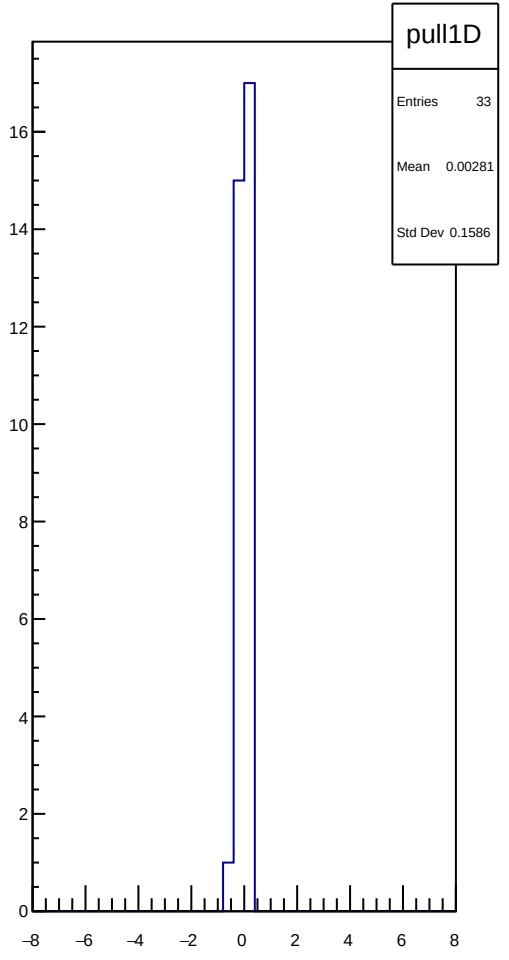

pull1D
Entries 33
Mean −0.01574
Std Dev 0.2899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

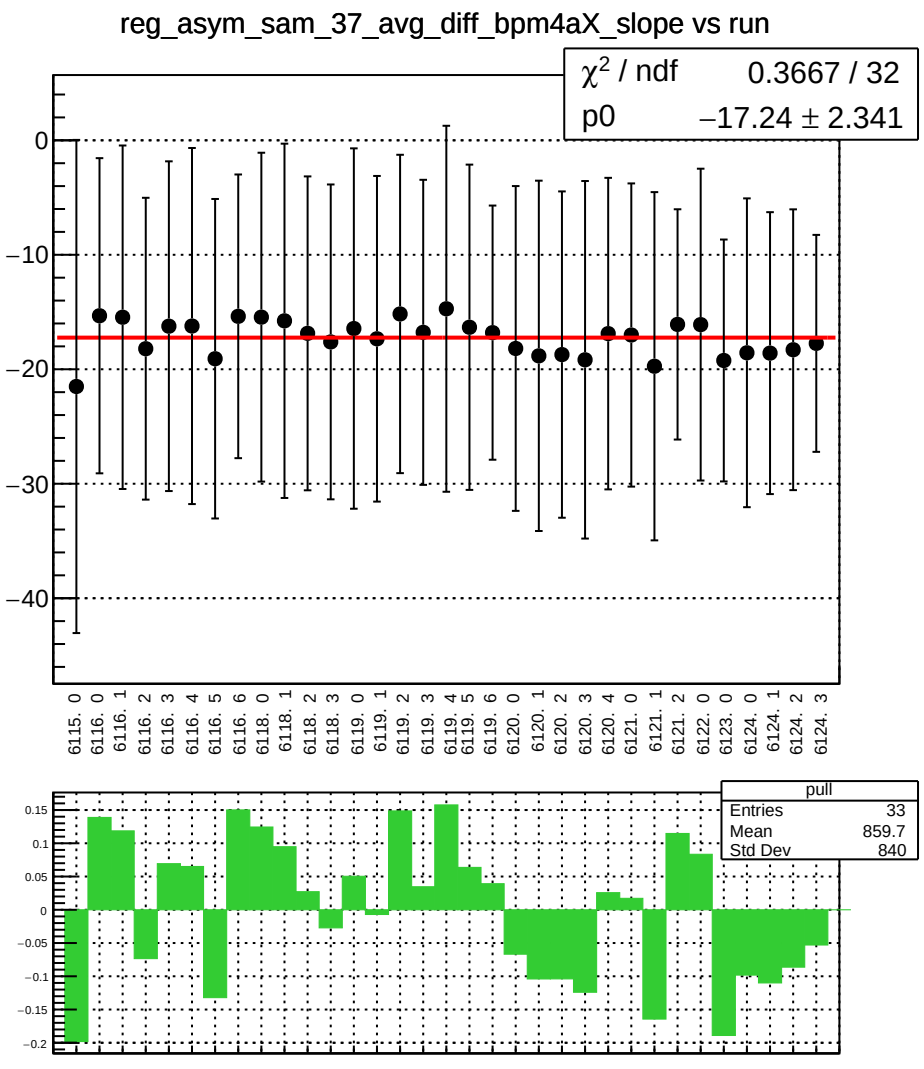

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8655 / 32
p0 2.731 ± 2.279
20
10
0
−10
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 298.4
Std Dev 278.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 33
Mean 0.0004328
Std Dev 0.1619
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

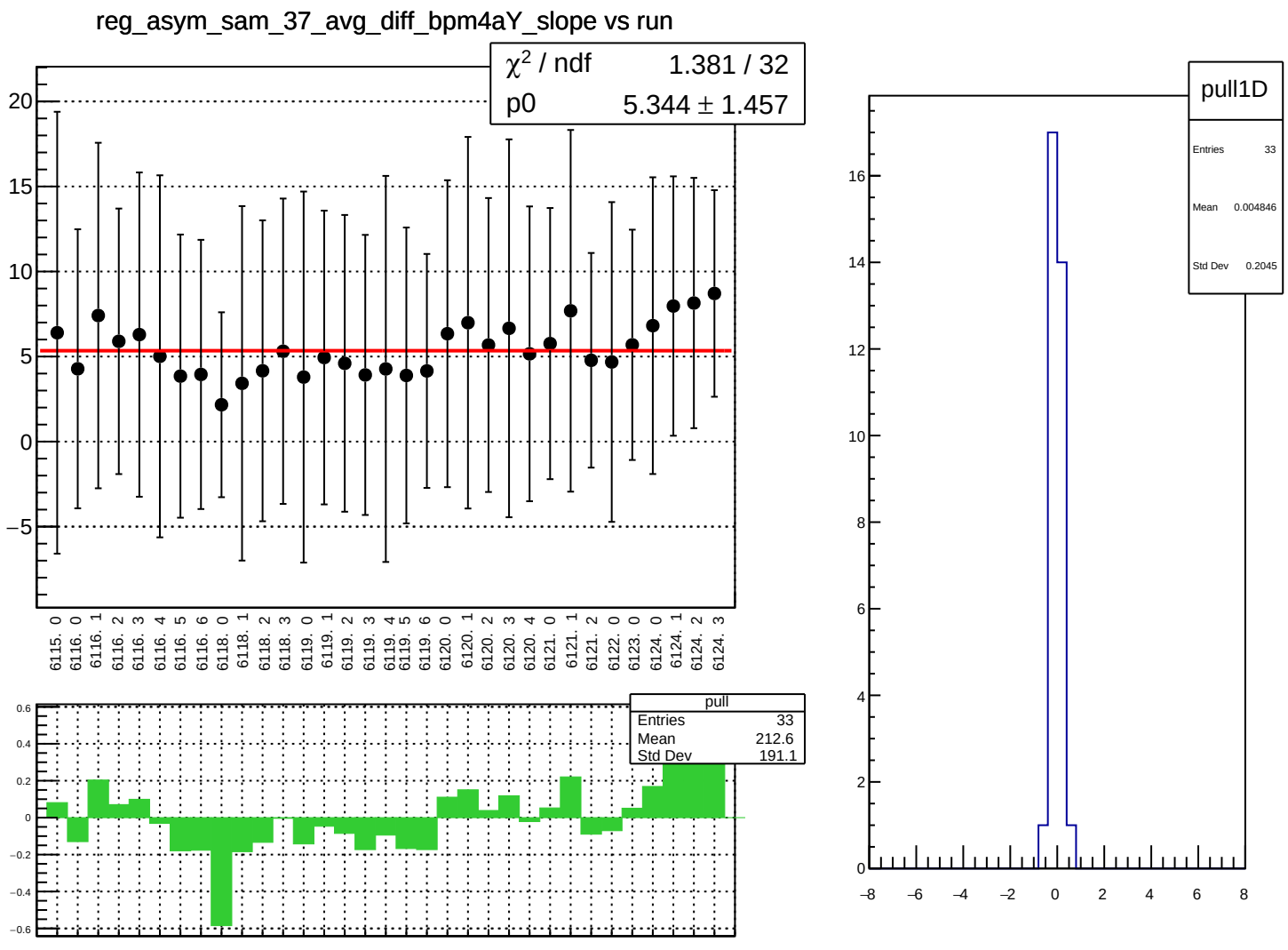

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.203 / 32
p0 −46.26 ± 1.315
−30
−35
−40
−45
−50
−55
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 48.22
Std Dev 34.13
0.5
0
−0.5
−1
−1.5

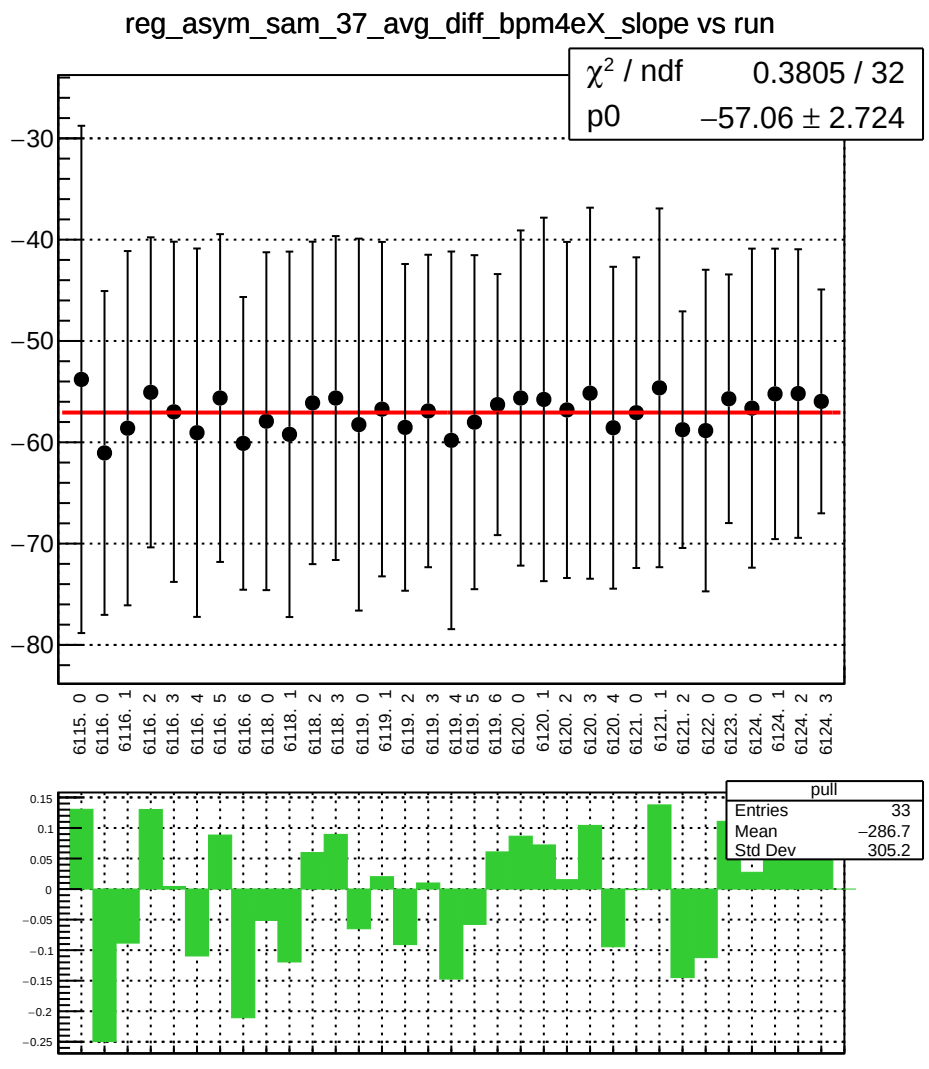

pull1D
Entries 33
Mean 0.01644
Std Dev 0.3111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

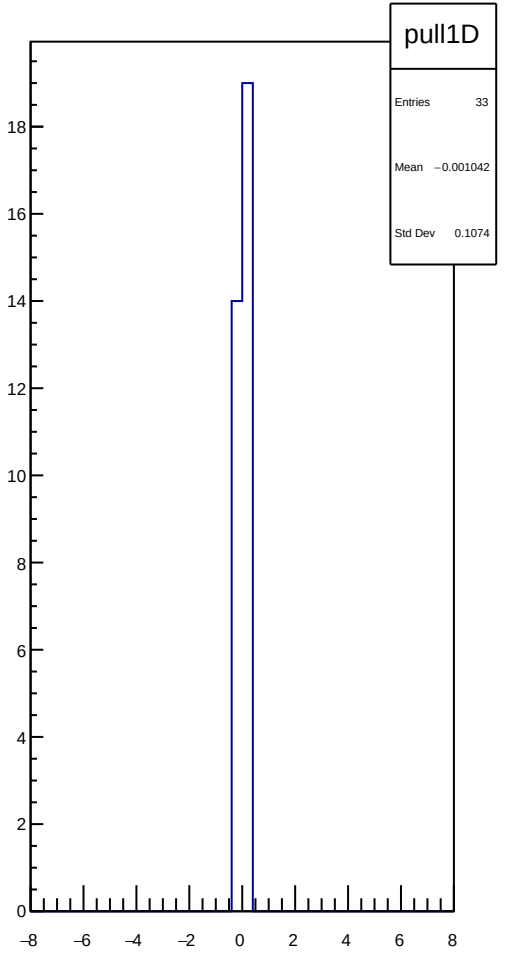

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8301 / 32
p0 0.1298 ± 0.09975
1
0.5
0
−0.5
−1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −65.97
Std Dev 95.06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

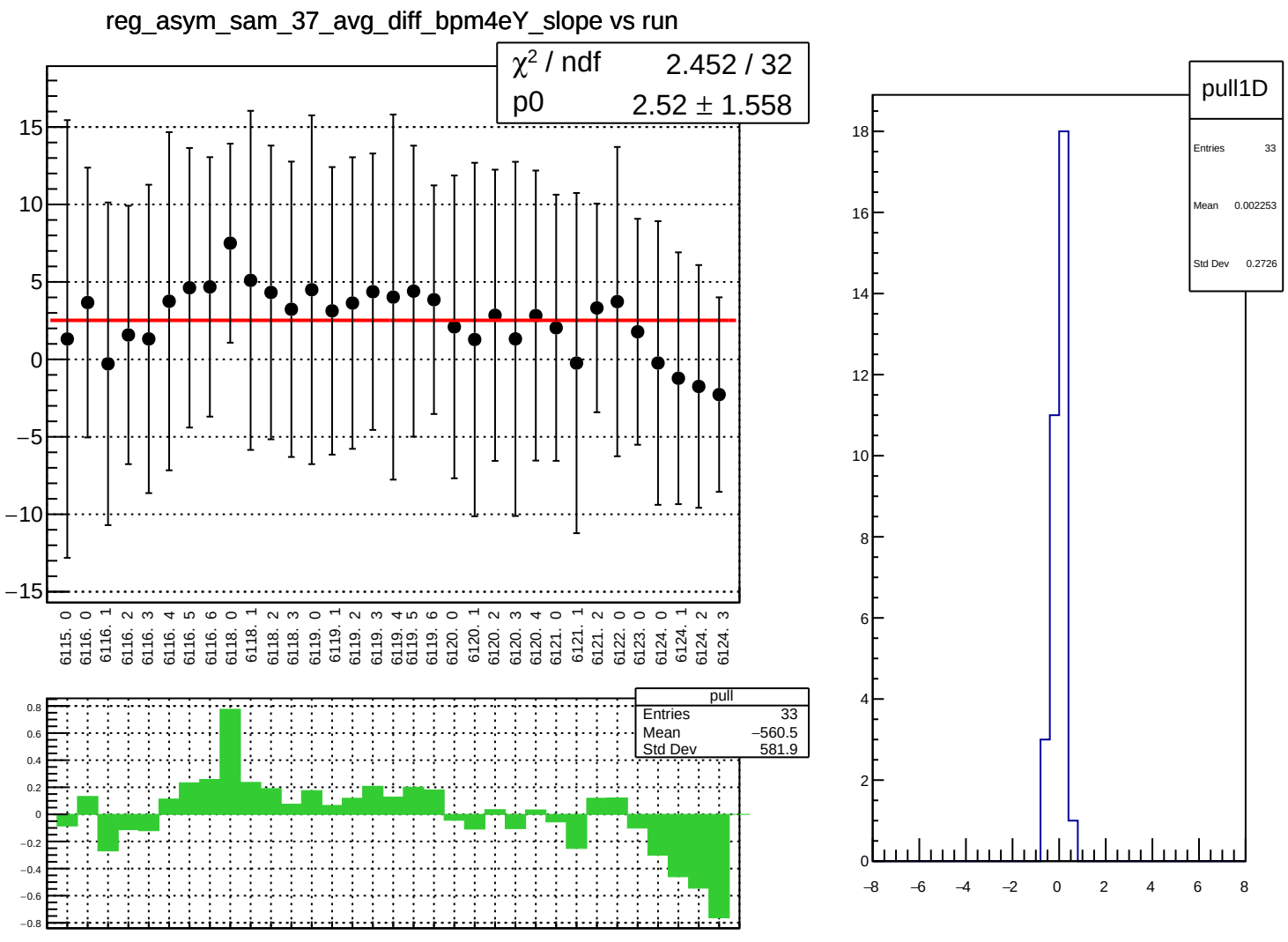

pull1D
Entries 33
Mean 0.00281
Std Dev 0.1586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

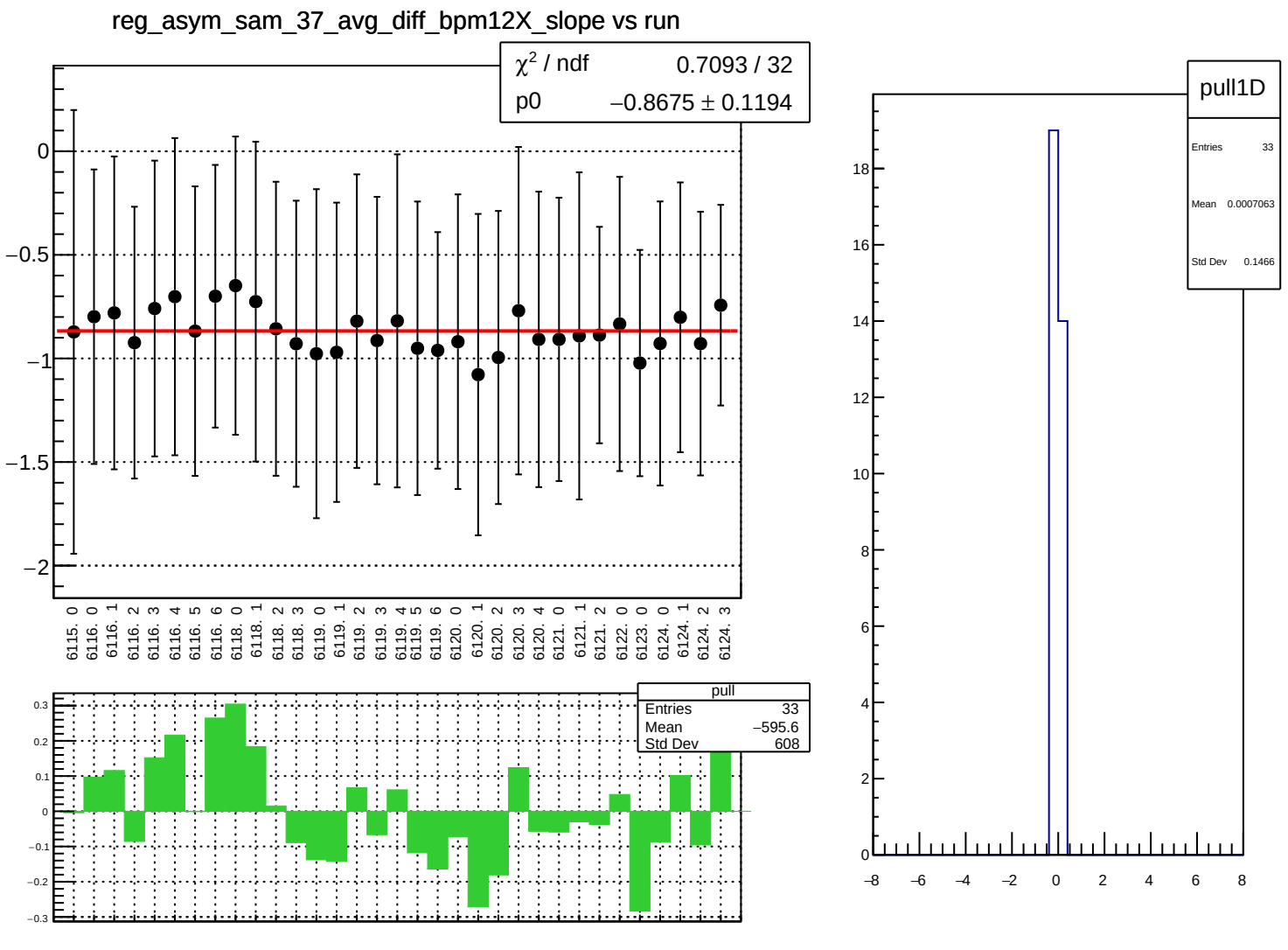

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.3667 / 32
p0 −17.24 ± 2.341
0
−10
−20
−30
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 859.7
Std Dev 840
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 33
Mean −0.0004117
Std Dev 0.1054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

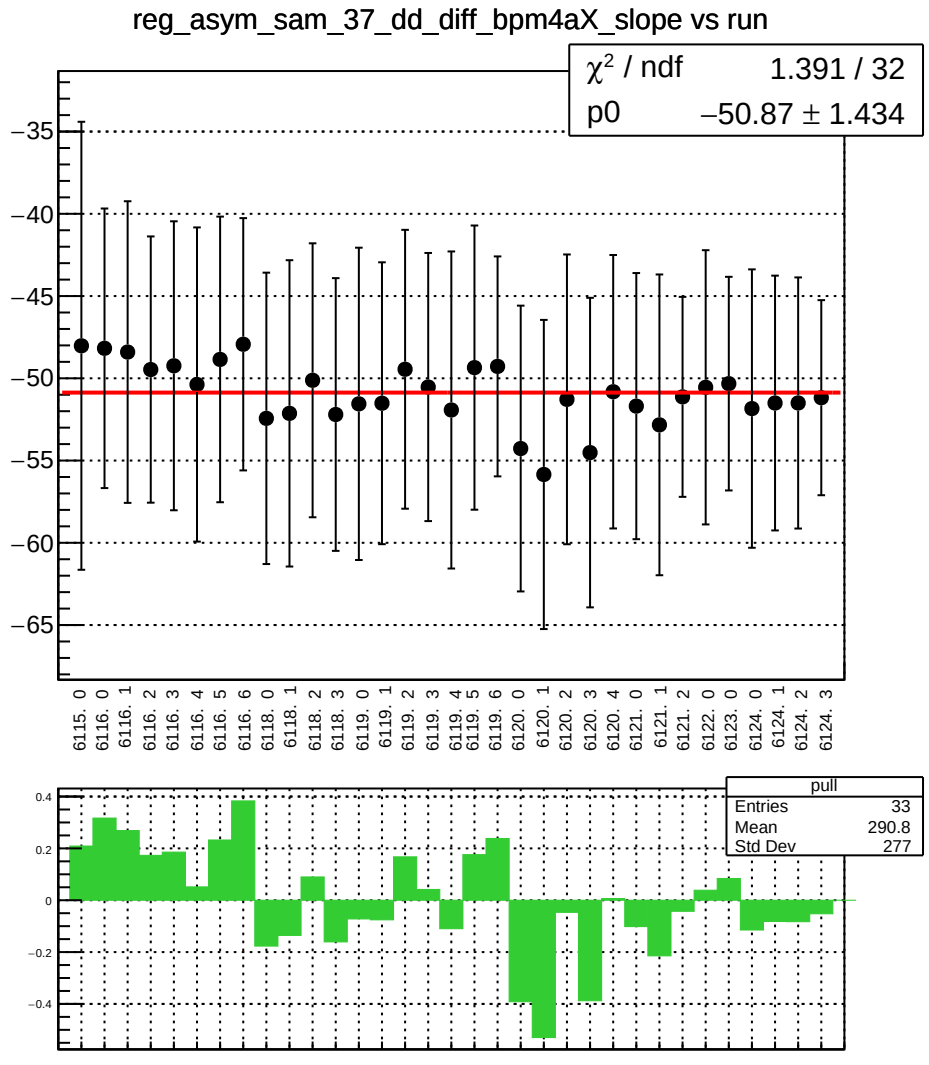

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.381 / 32
p0 5.344 ± 1.457
20
15
10
5
0
−5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 212.6
Std Dev 191.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean 0.004846
Std Dev 0.2045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

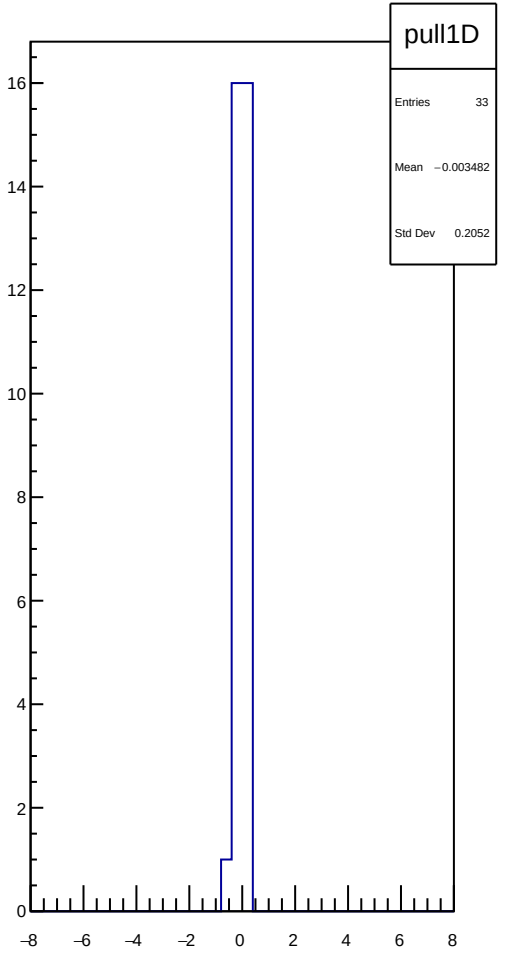

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3805 / 32
p0 −57.06 ± 2.724
−30
−40
−50
−60
−70
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −286.7
Std Dev 305.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

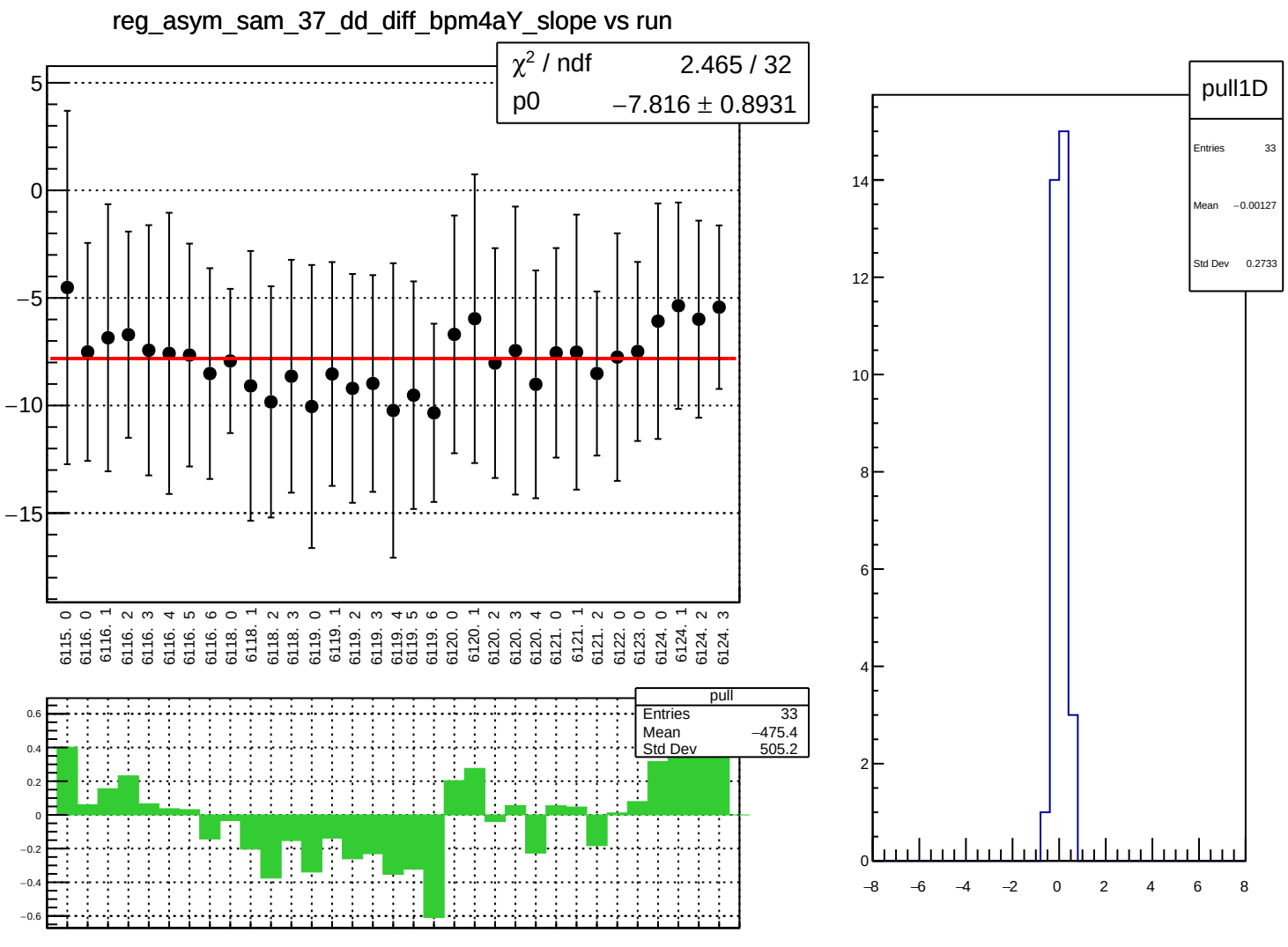

pull1D
Entries 33
Mean −0.001042
Std Dev 0.1074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

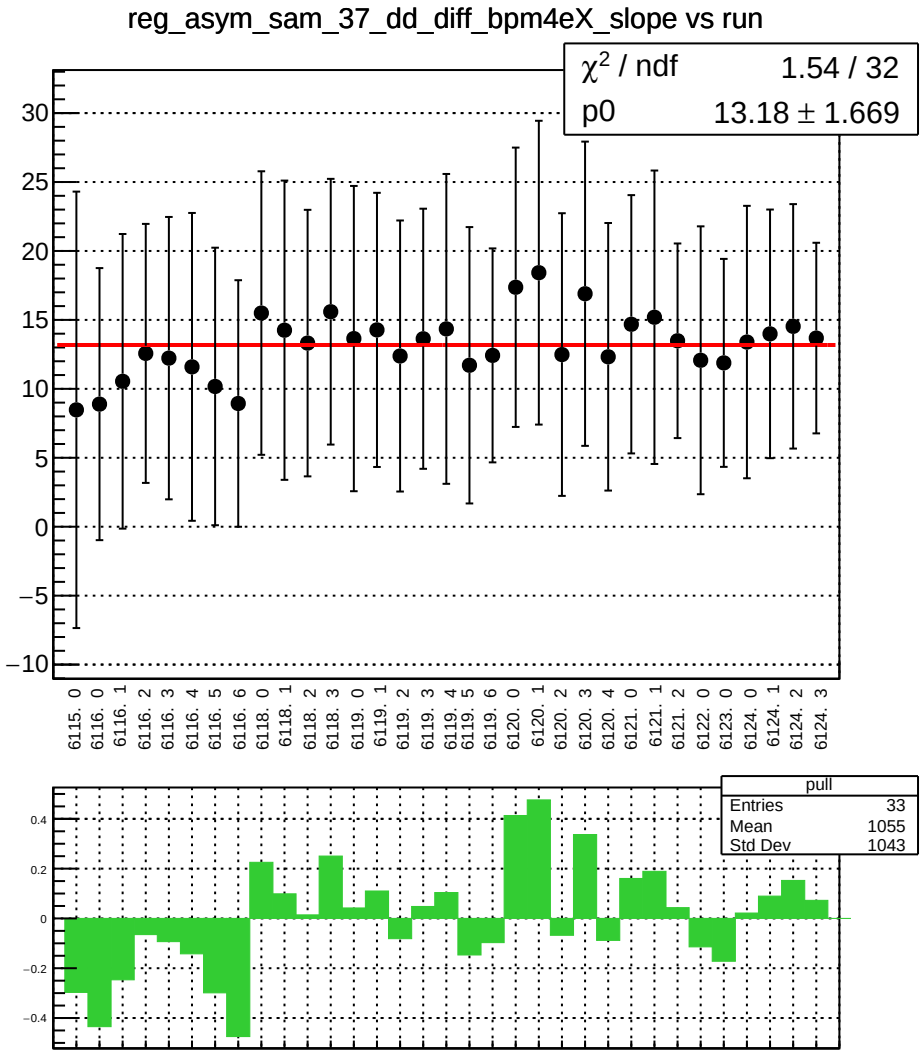

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.452 / 32
p0 2.52 ± 1.558
15
10
5
0
−5
−10
−15
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −560.5
Std Dev 581.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.002253
Std Dev 0.2726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

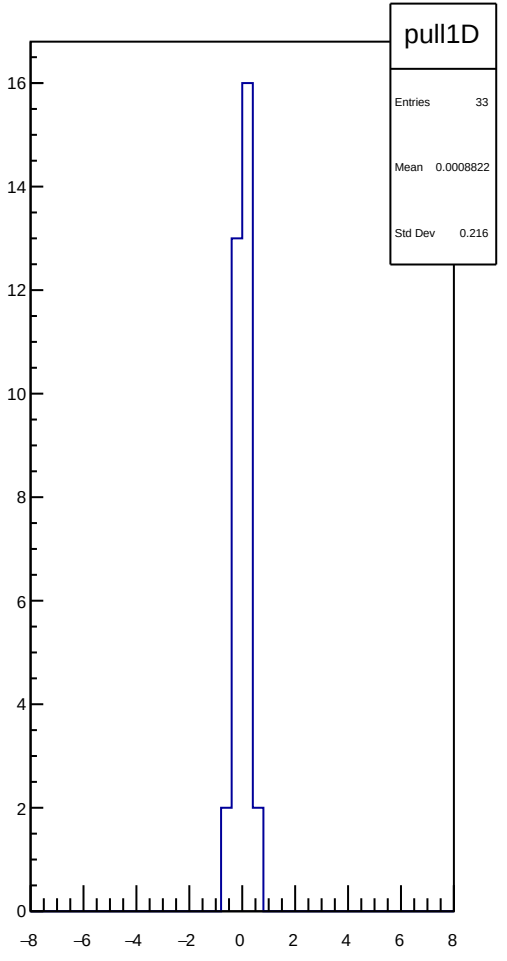

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7093 / 32
p0 −0.8675 ± 0.1194
0
−0.5
−1
−1.5
−2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −595.6
Std Dev 608
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 33
Mean 0.0007063
Std Dev 0.1466
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

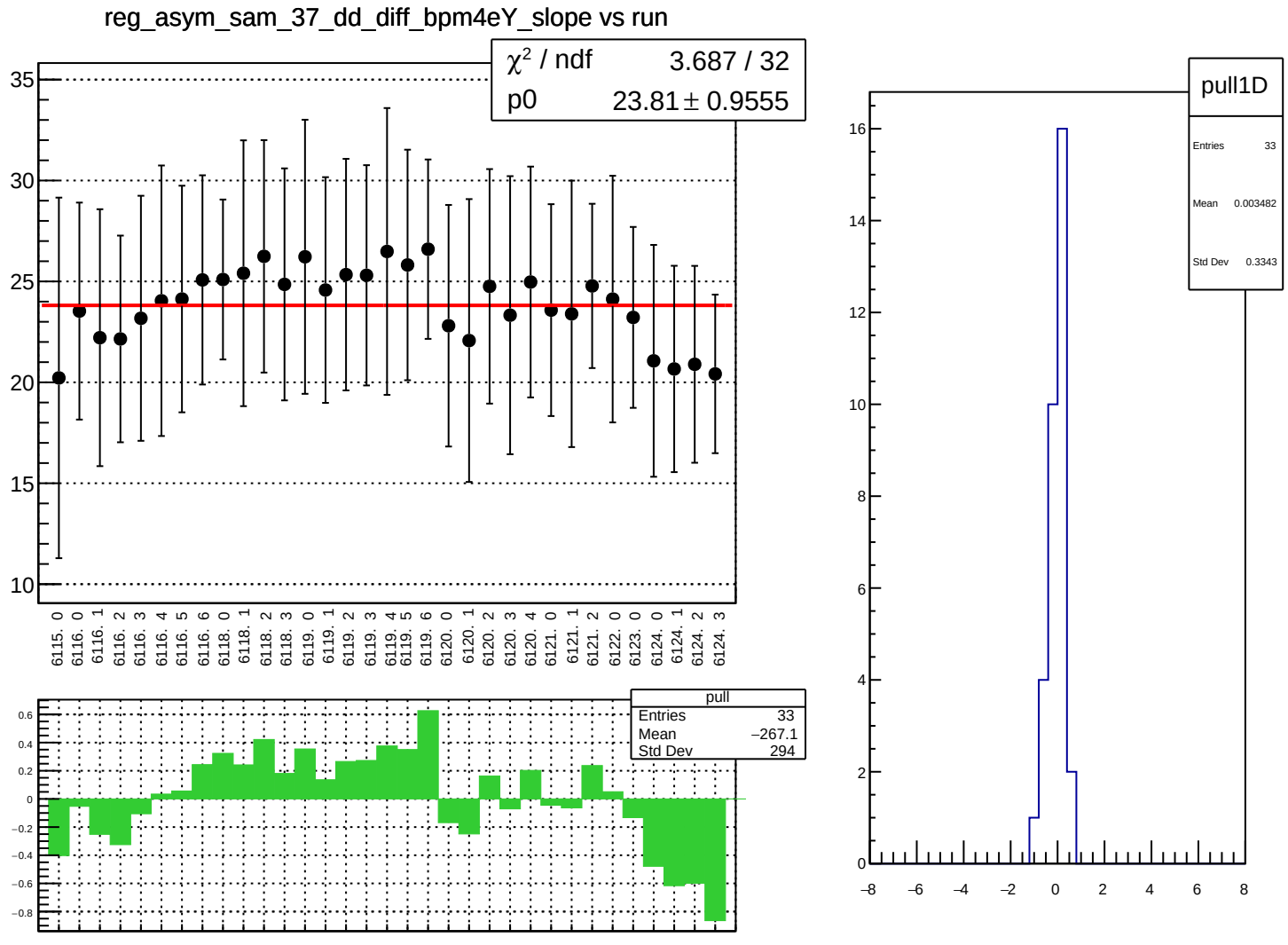

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.391 / 32
p0 −50.87 ± 1.434
−35
−40
−45
−50
−55
−60
−65
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 290.8
Std Dev 277
0.4
0.2
0
−0.2
−0.4

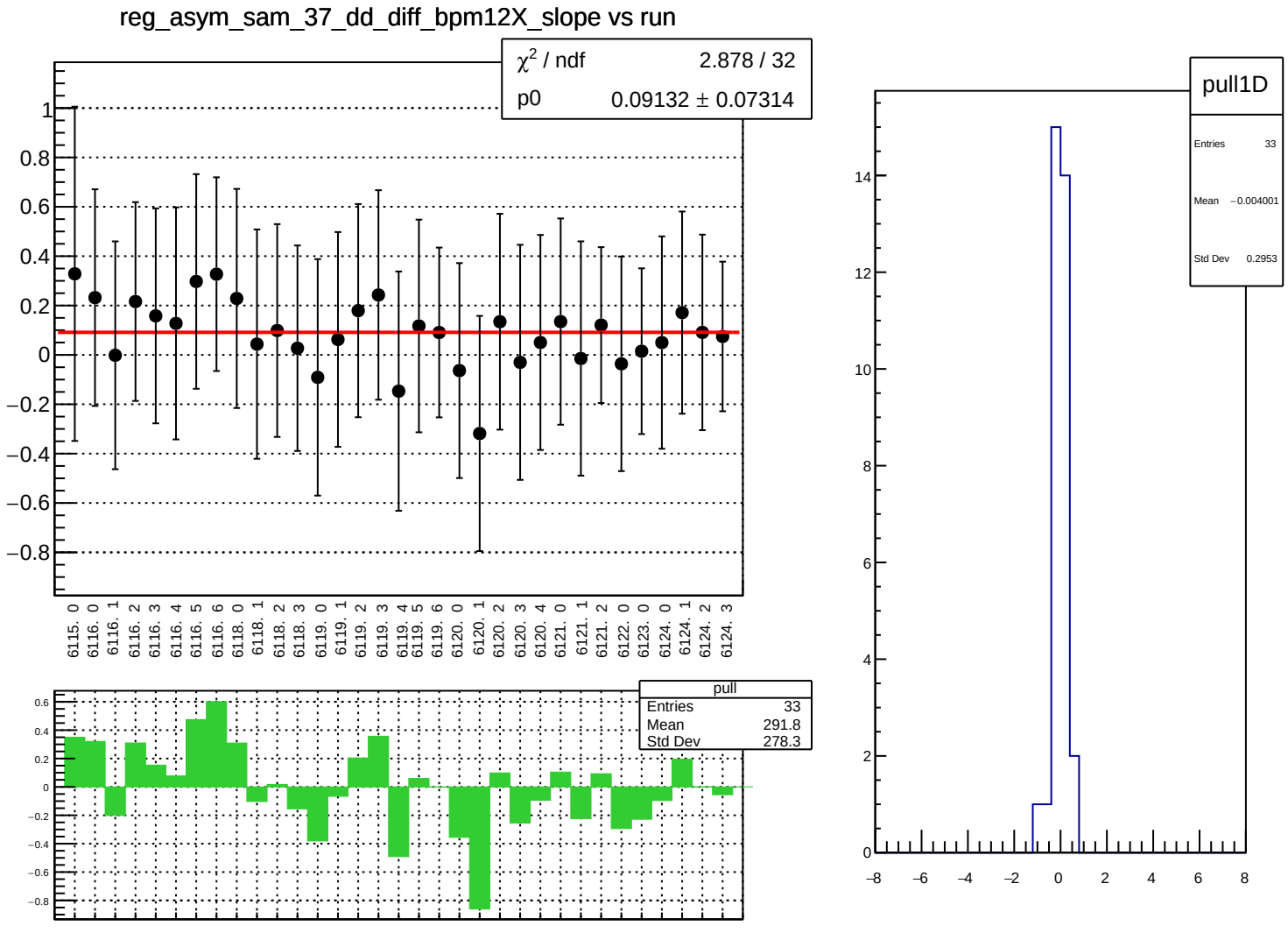

pull1D
Entries 33
Mean −0.003482
Std Dev 0.2052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

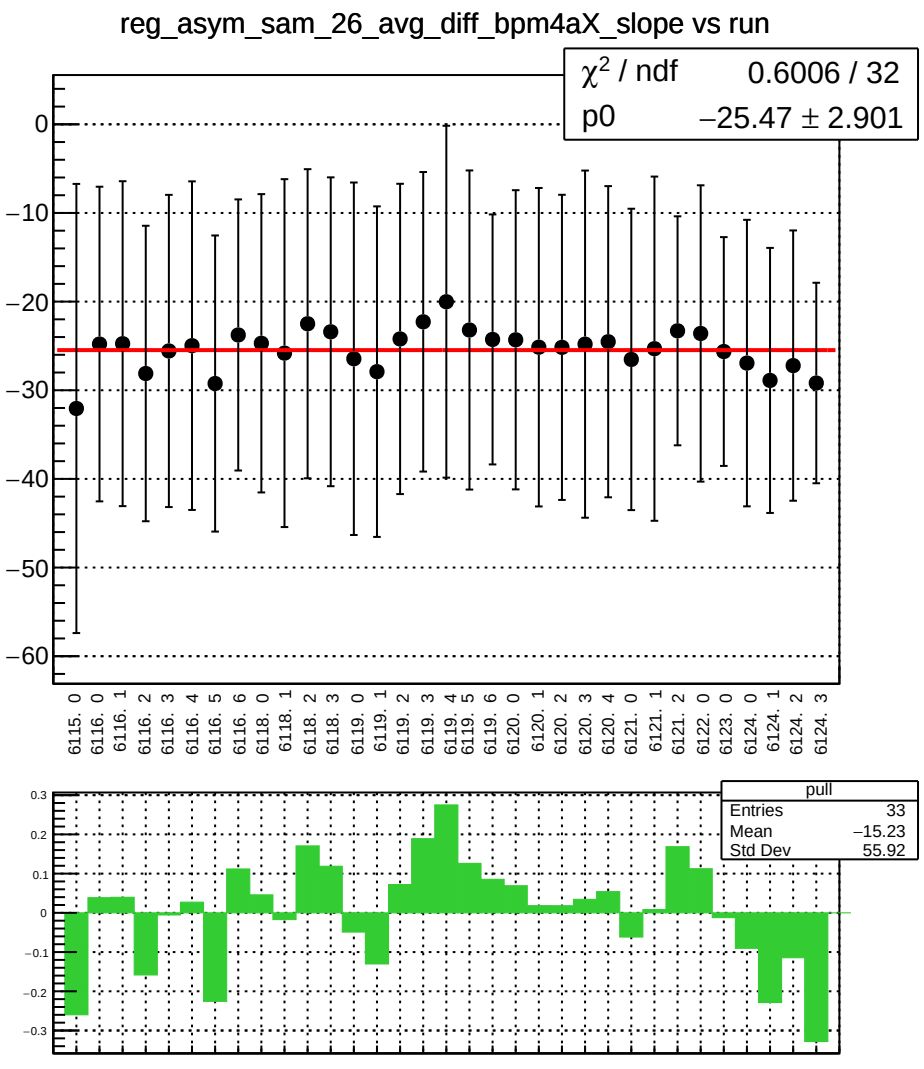

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.465 / 32
p0 −7.816 ± 0.8931
5
0
−5
−10
−15
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −475.4
Std Dev 505.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean −0.00127
Std Dev 0.2733
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

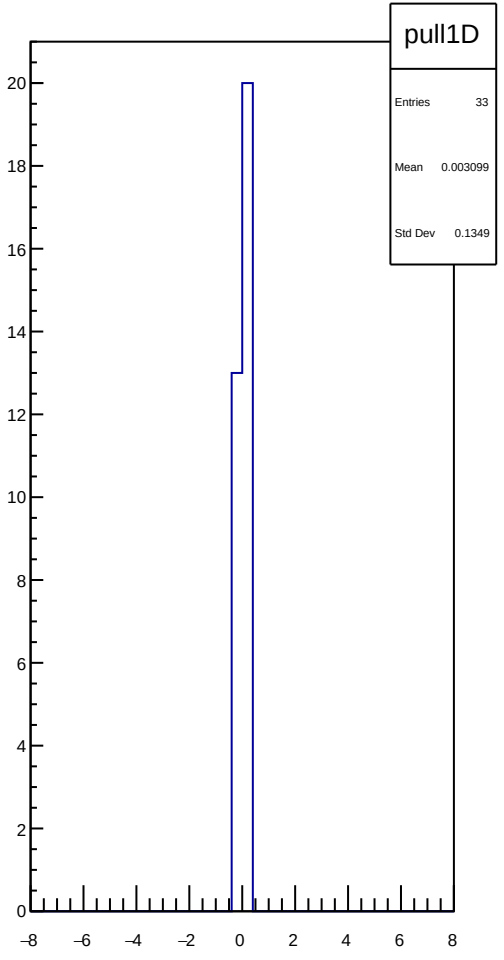

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.54 / 32
p0 13.18 ± 1.669
30
25
20
15
10
5
0
−5
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1055
Std Dev 1043
0.4
0.2
0
−0.2
−0.4

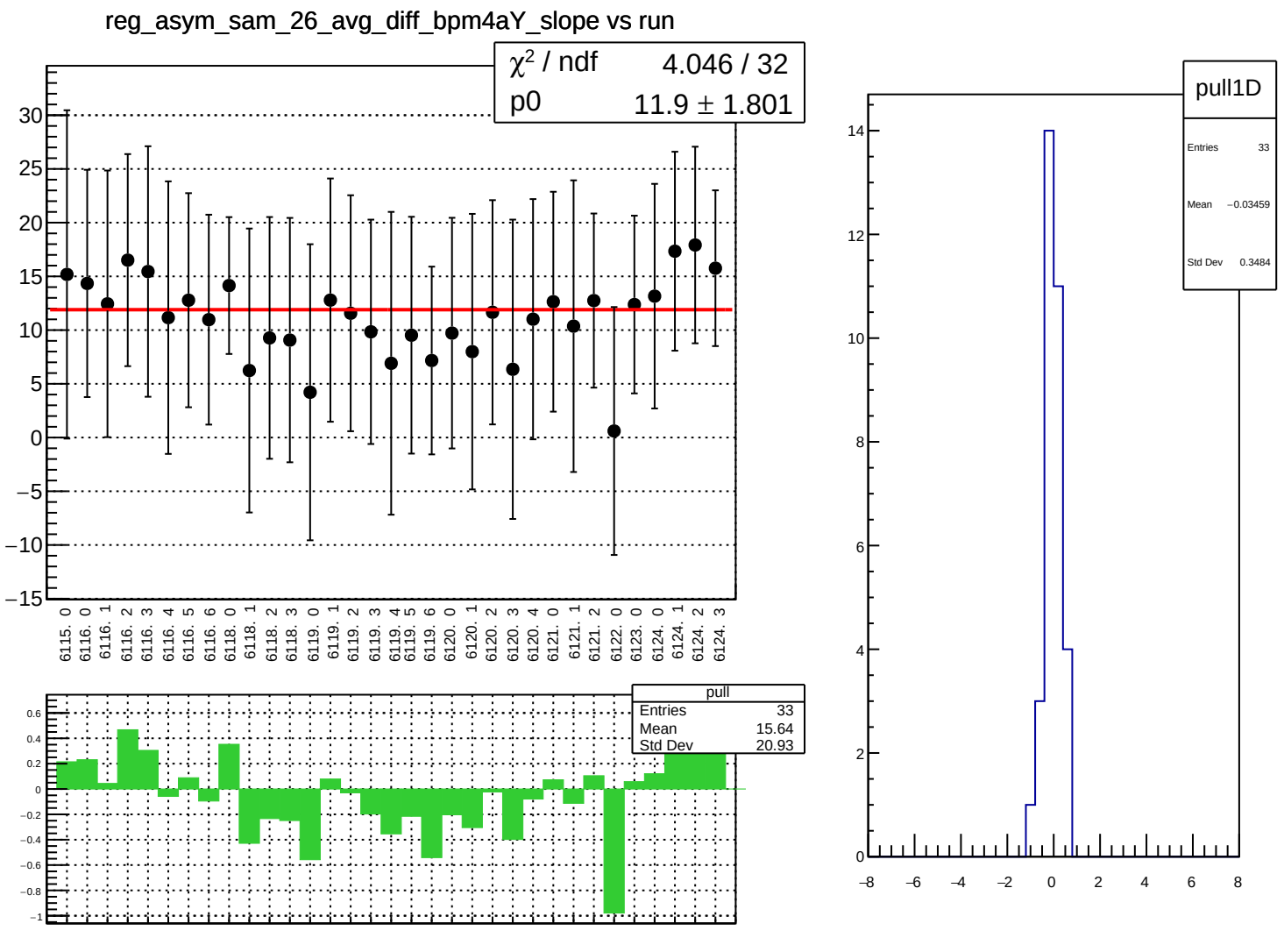

pull1D
Entries 33
Mean 0.0008822
Std Dev 0.216
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

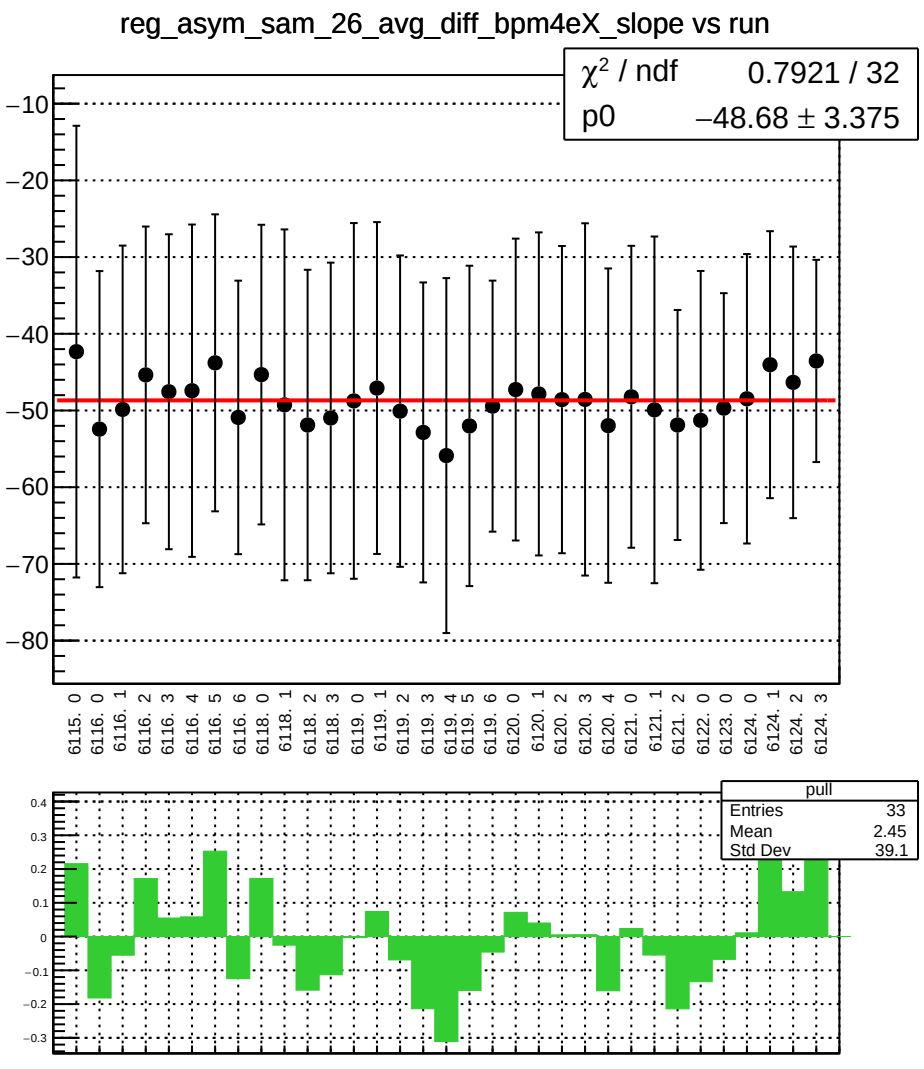

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.687 / 32
p0 23.81 ± 0.9555
35
30
25
20
15
10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −267.1
Std Dev 294
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.003482
Std Dev 0.3343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

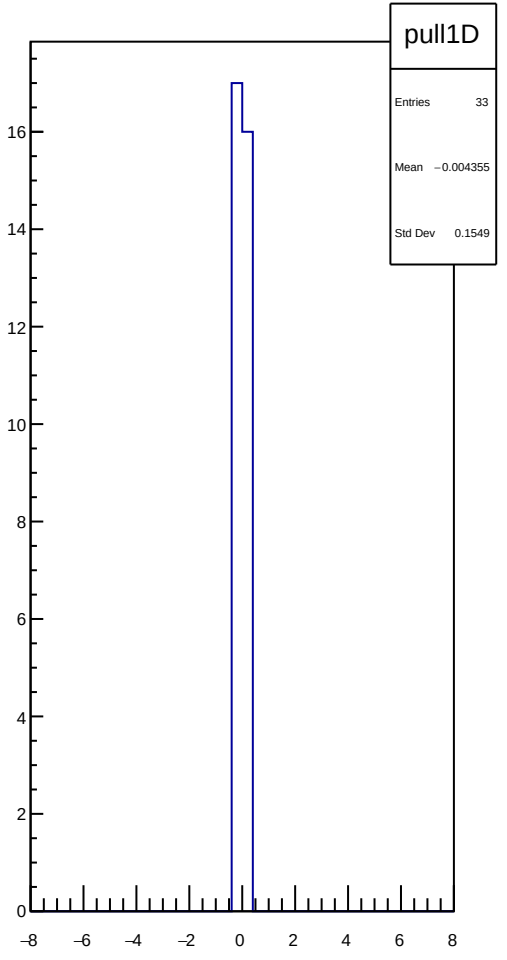

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.878 / 32
p0 0.09132 ± 0.07314
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 291.8
Std Dev 278.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.004001
Std Dev 0.2953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

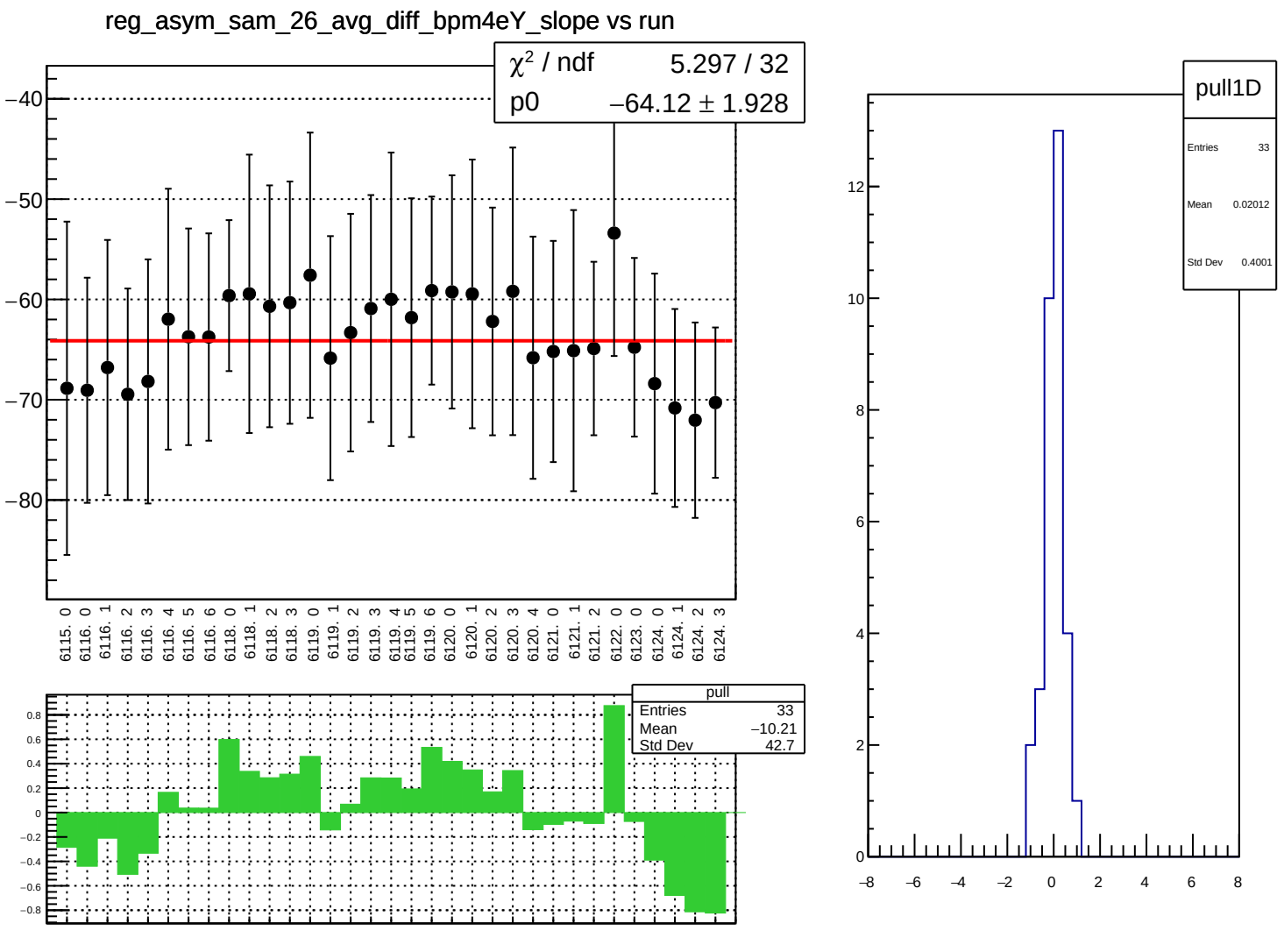

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.6006 / 32
p0 −25.47 ± 2.901
0
−10
−20
−30
−40
−50
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −15.23
Std Dev 55.92
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

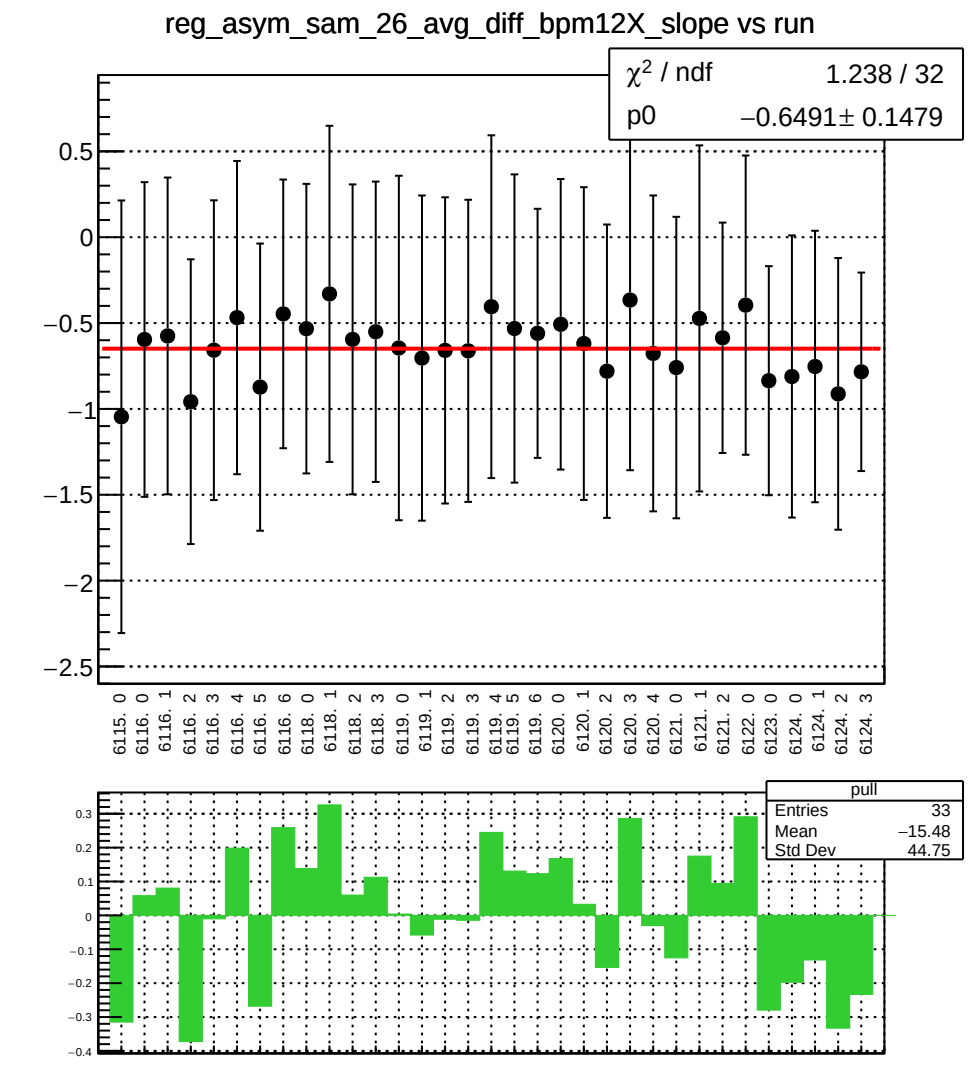

pull1D
Entries 33
Mean 0.003099
Std Dev 0.1349
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

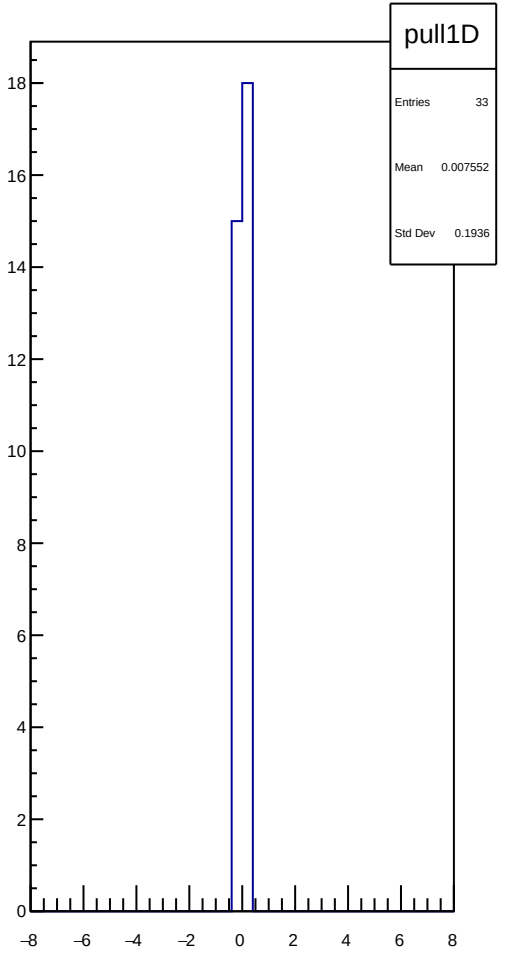

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.046 / 32
p0 11.9 ± 1.801
pull
Entries 33
Mean 15.64
Std Dev 20.93
pull1D
Entries 33
Mean −0.03459
Std Dev 0.3484

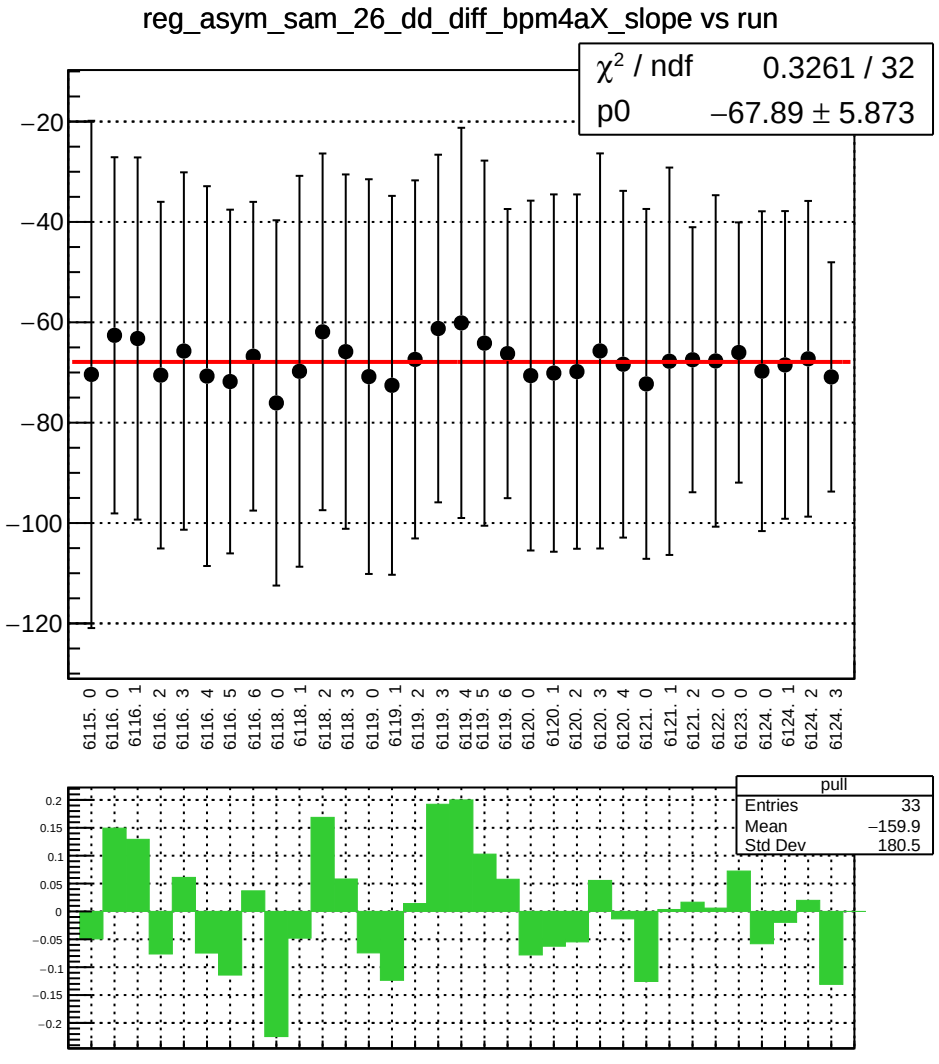

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.7921 / 32
p0 −48.68 ± 3.375
−10
−20
−30
−40
−50
−60
−70
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 2.45
Std Dev 39.1
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

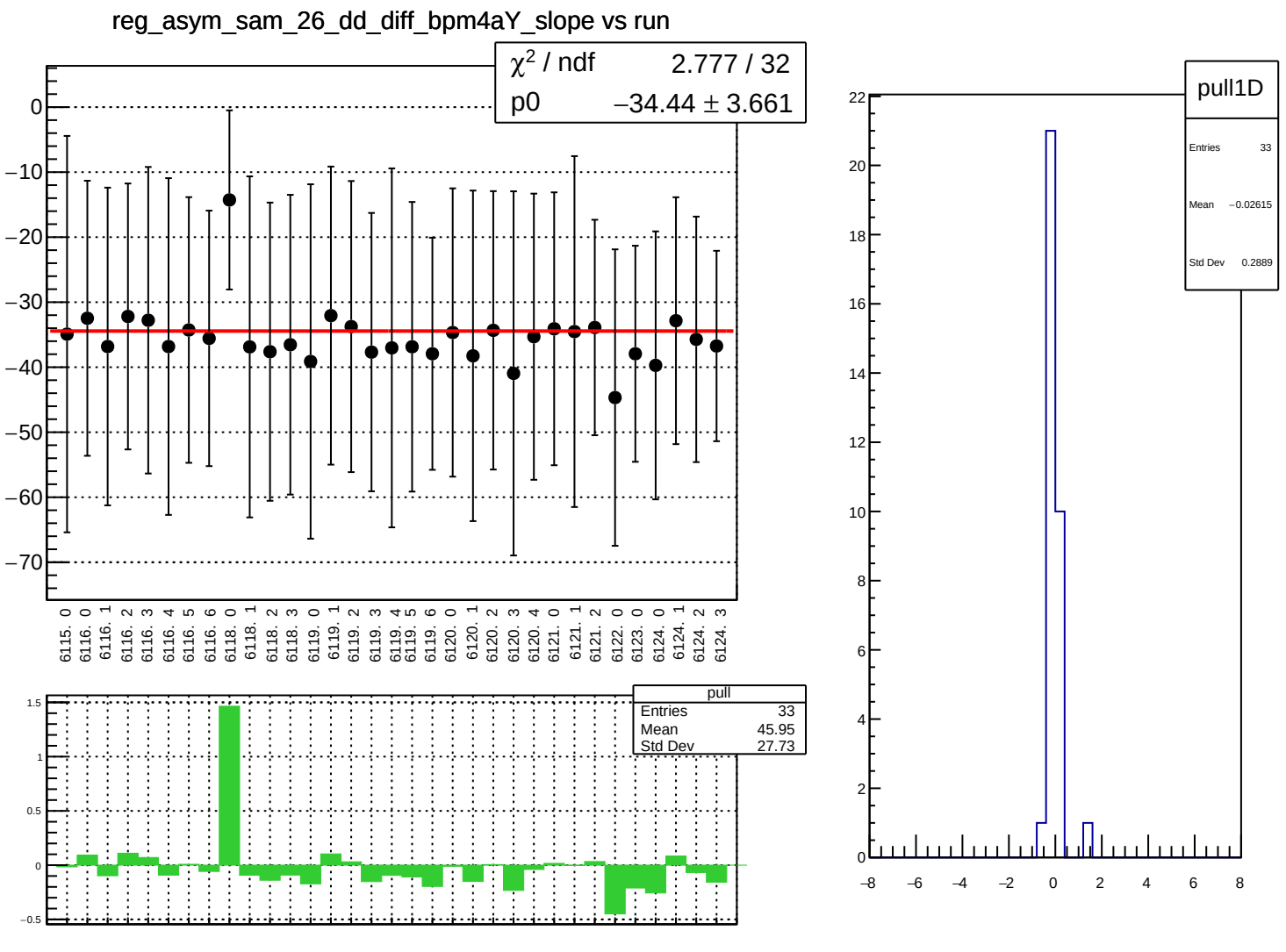

pull1D
Entries 33
Mean −0.004355
Std Dev 0.1549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

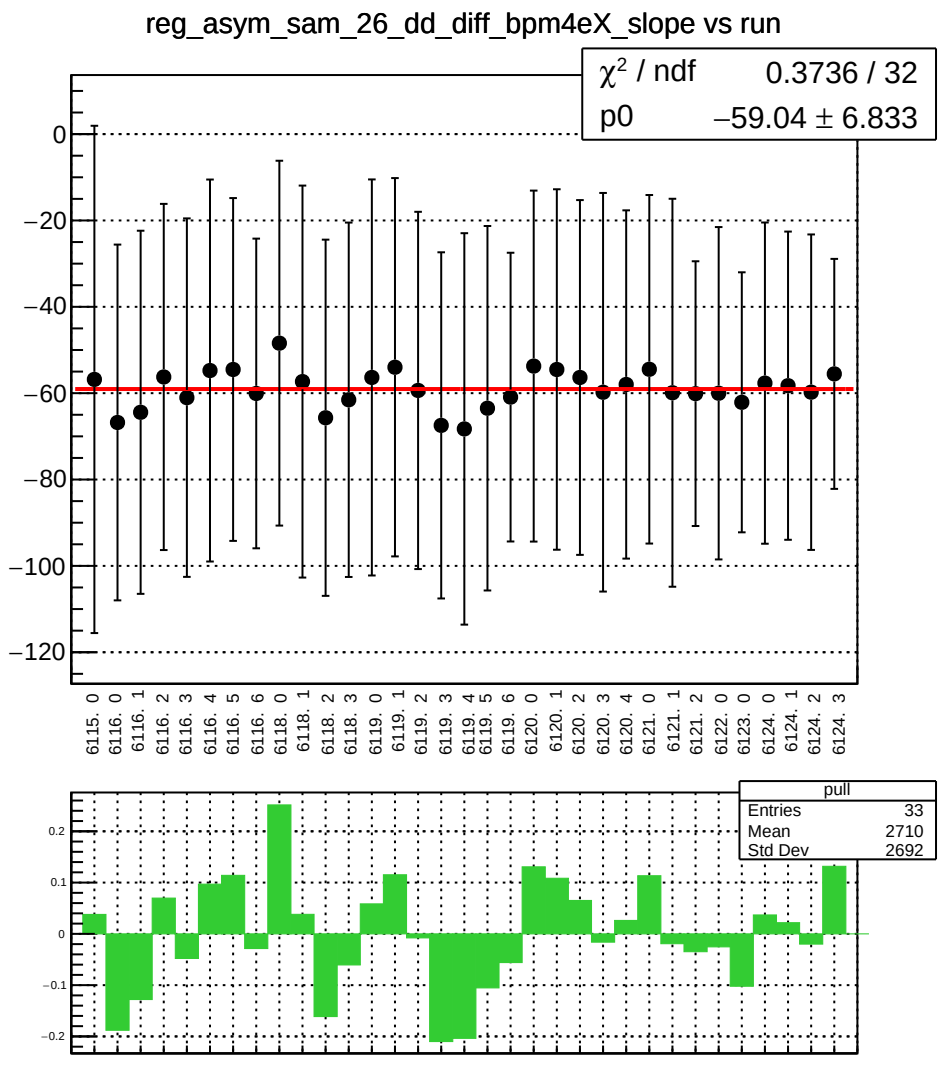

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.297 / 32
p0 −64.12 ± 1.928
−40
−50
−60
−70
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −10.21
Std Dev 42.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.02012
Std Dev 0.4001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

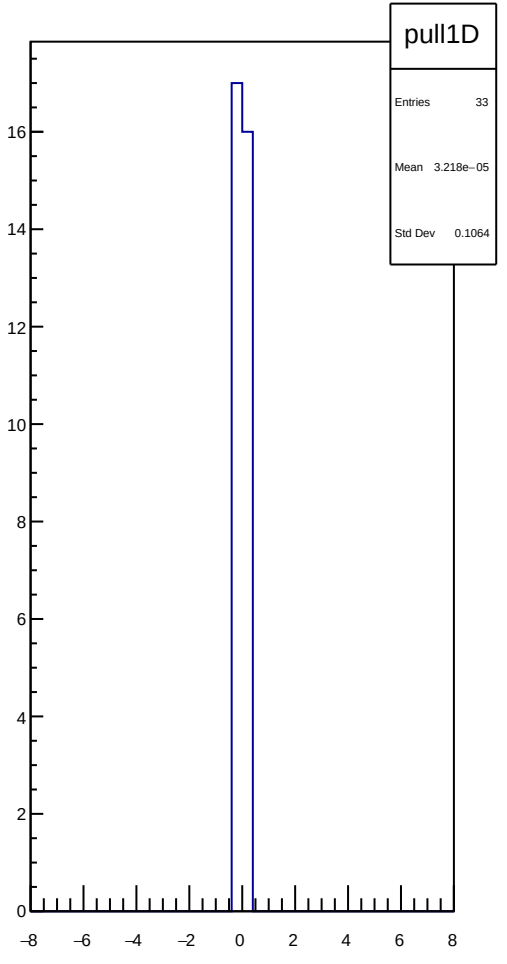

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.238 / 32
p0 −0.6491± 0.1479
0.5
0
−0.5
−1
−1.5
−2
−2.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −15.48
Std Dev 44.75
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

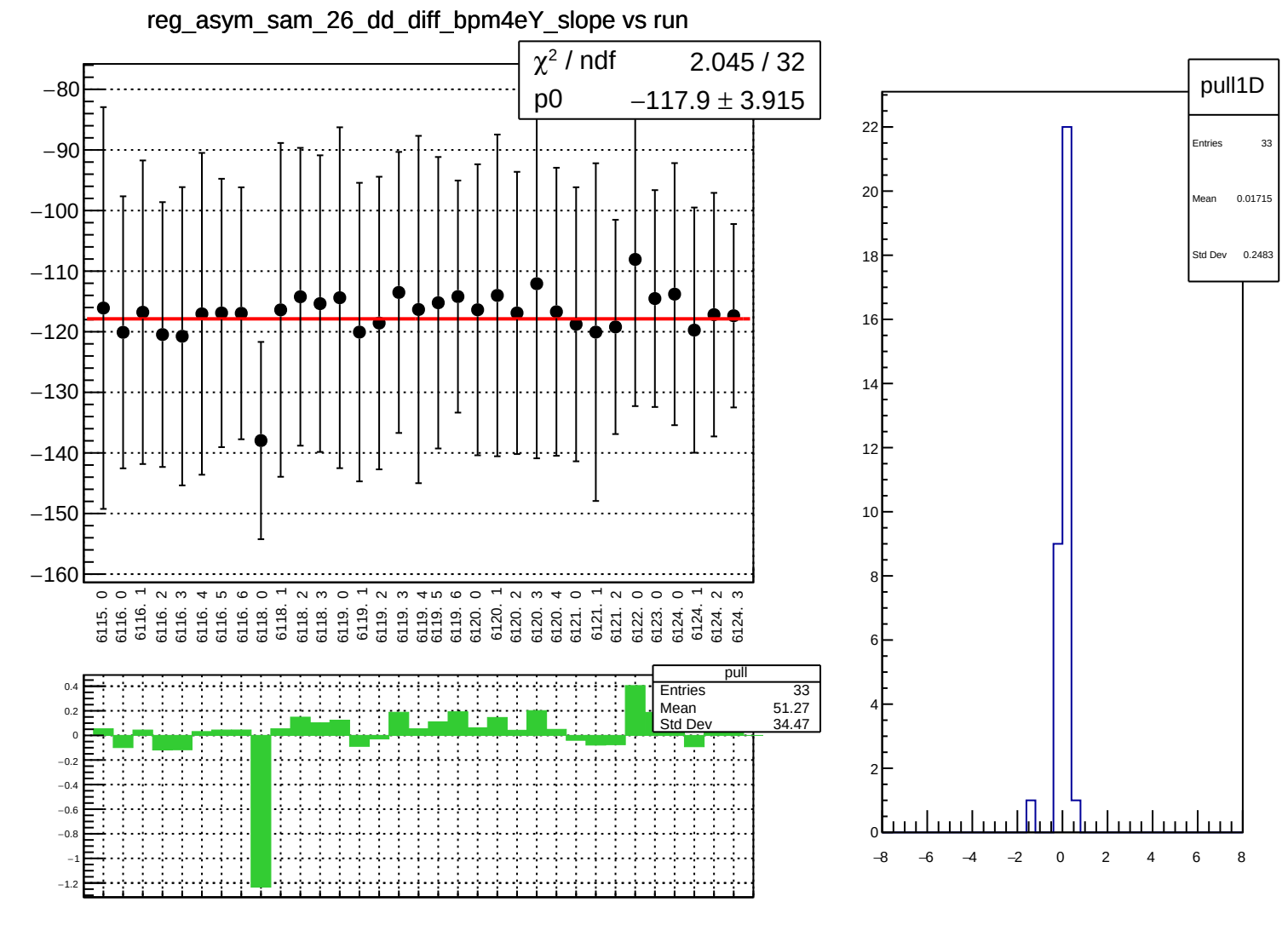

pull1D
Entries 33
Mean 0.007552
Std Dev 0.1936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

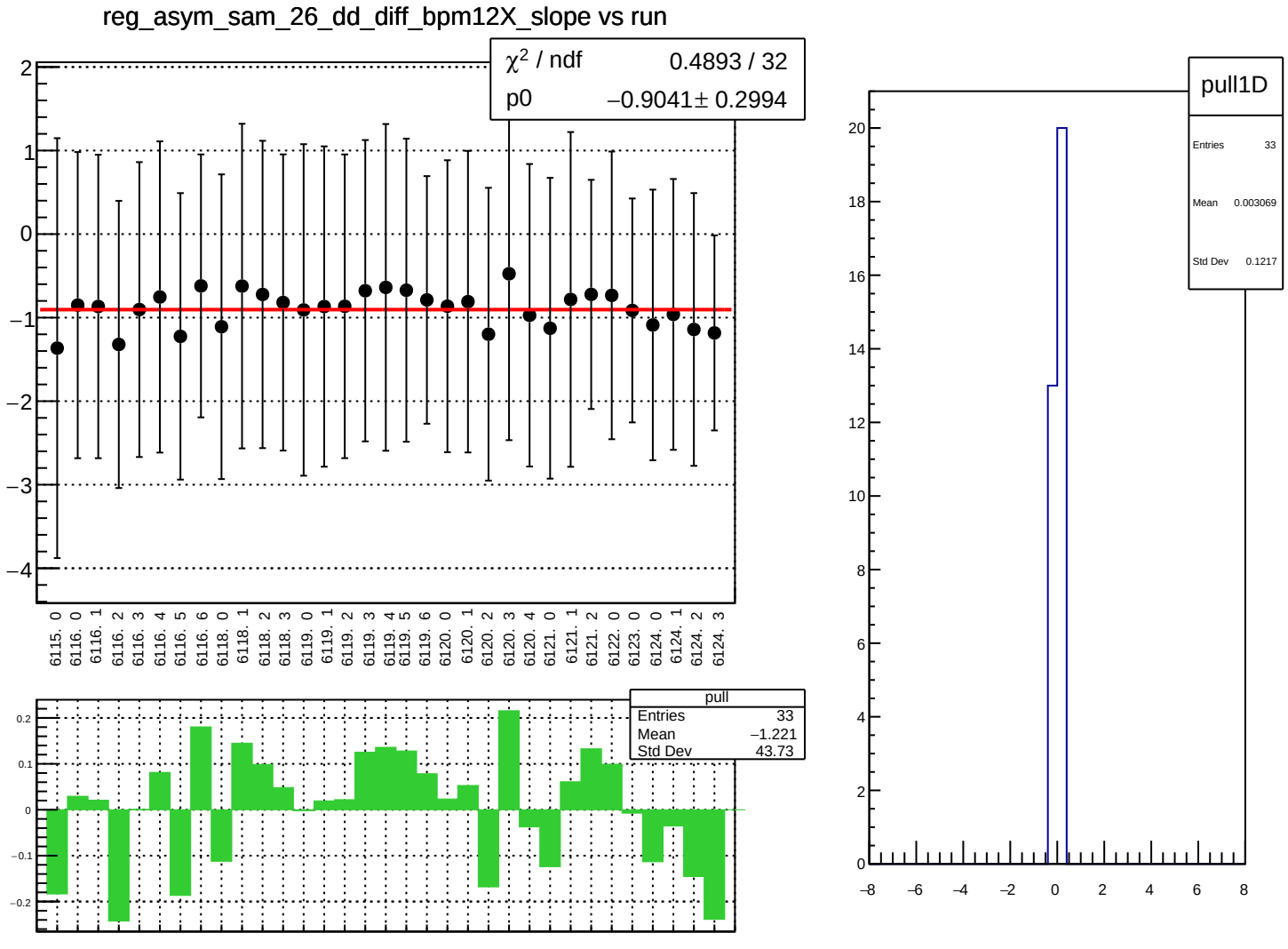

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3261 / 32
p0 −67.89 ± 5.873
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −159.9
Std Dev 180.5
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 33
Mean 0.0005309
Std Dev 0.0994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

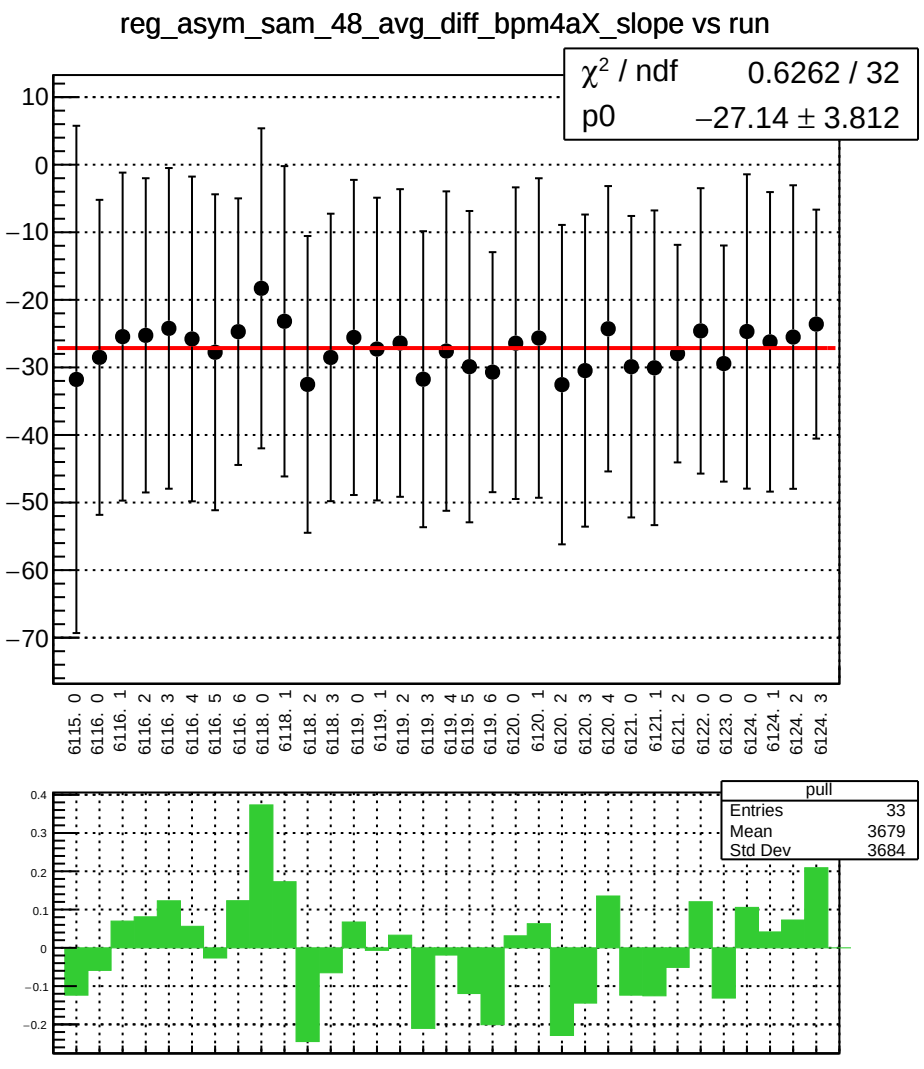

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.777 / 32
p0 −34.44 ± 3.661
0
−10
−20
−30
−40
−50
−60
−70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 45.95
Std Dev 27.73
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.02615
Std Dev 0.2889
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

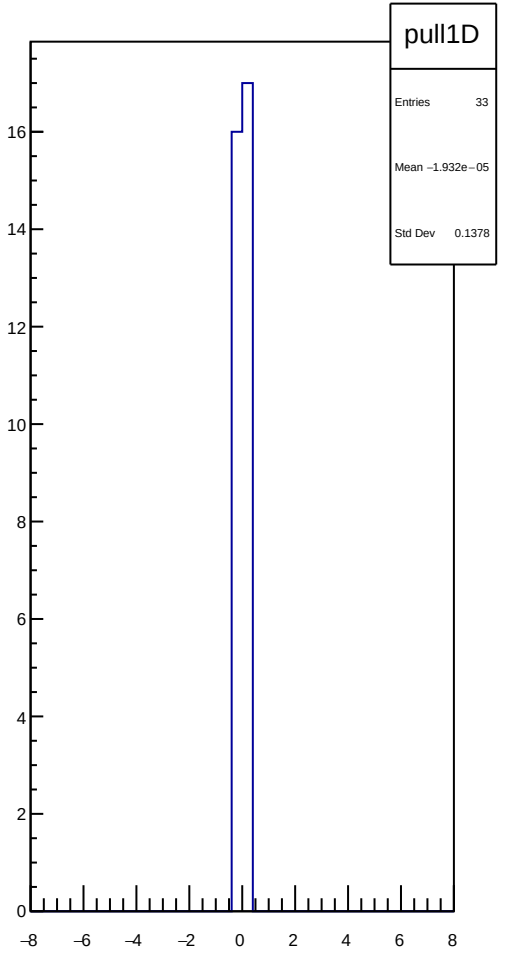

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3736 / 32
p0 −59.04 ± 6.833
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 2710
Std Dev 2692
0.2
0.1
0
−0.1
−0.2

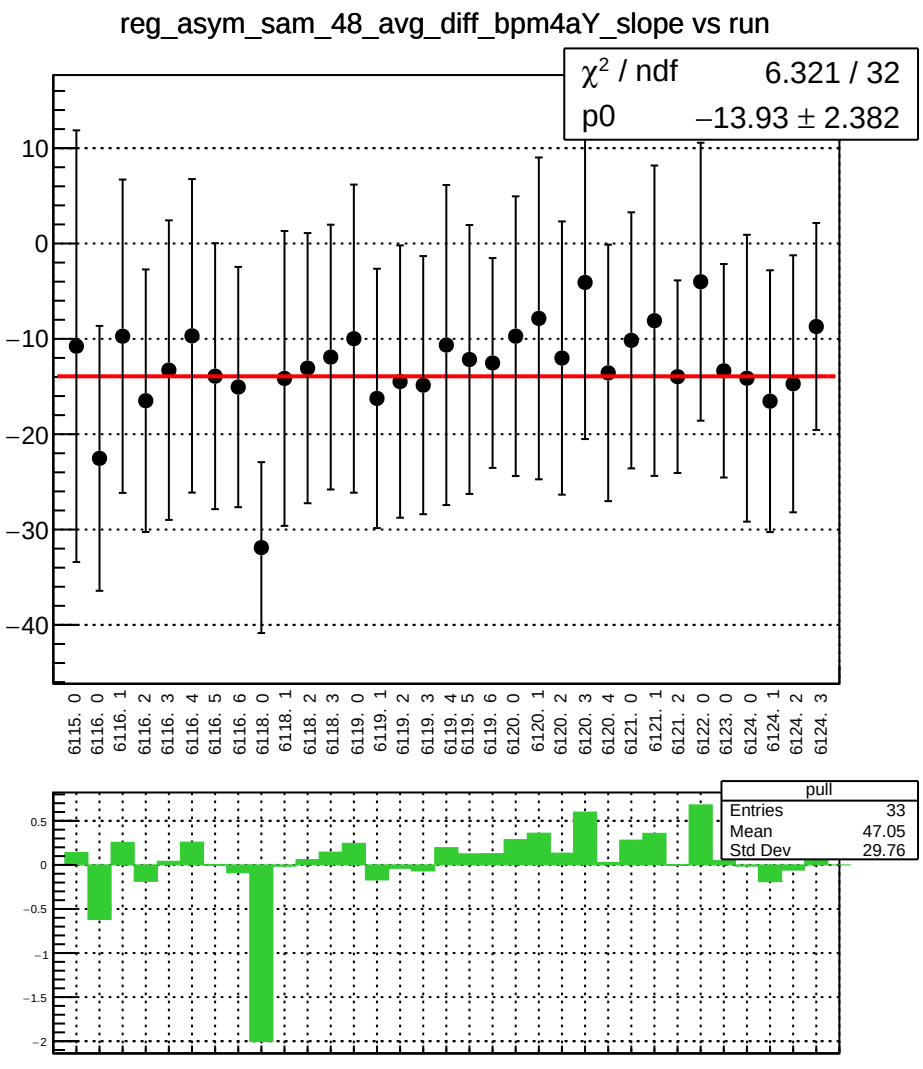

pull1D
Entries 33
Mean 3.218e−05
Std Dev 0.1064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

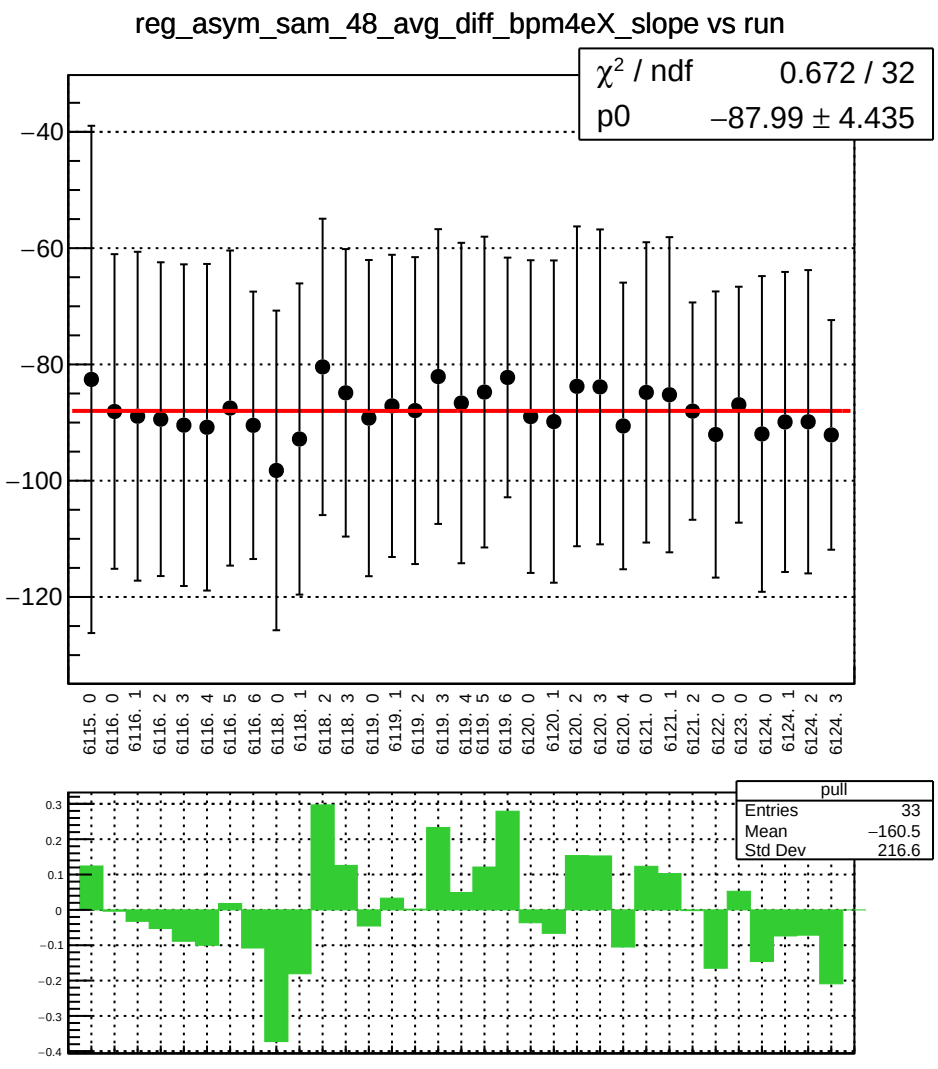

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.045 / 32
p0 −117.9 ± 3.915
−80
−90
−100
−110
−120
−130
−140
−150
−160
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.27
Std Dev 34.47
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 33
Mean 0.01715
Std Dev 0.2483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

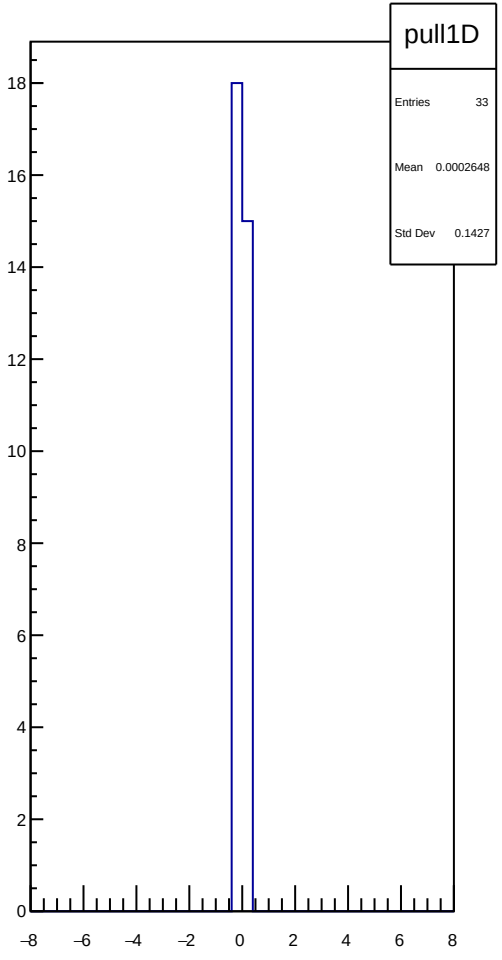

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4893 / 32
p0 −0.9041± 0.2994
pull
Entries 33
Mean −1.221
Std Dev 43.73
pull1D
Entries 33
Mean 0.003069
Std Dev 0.1217

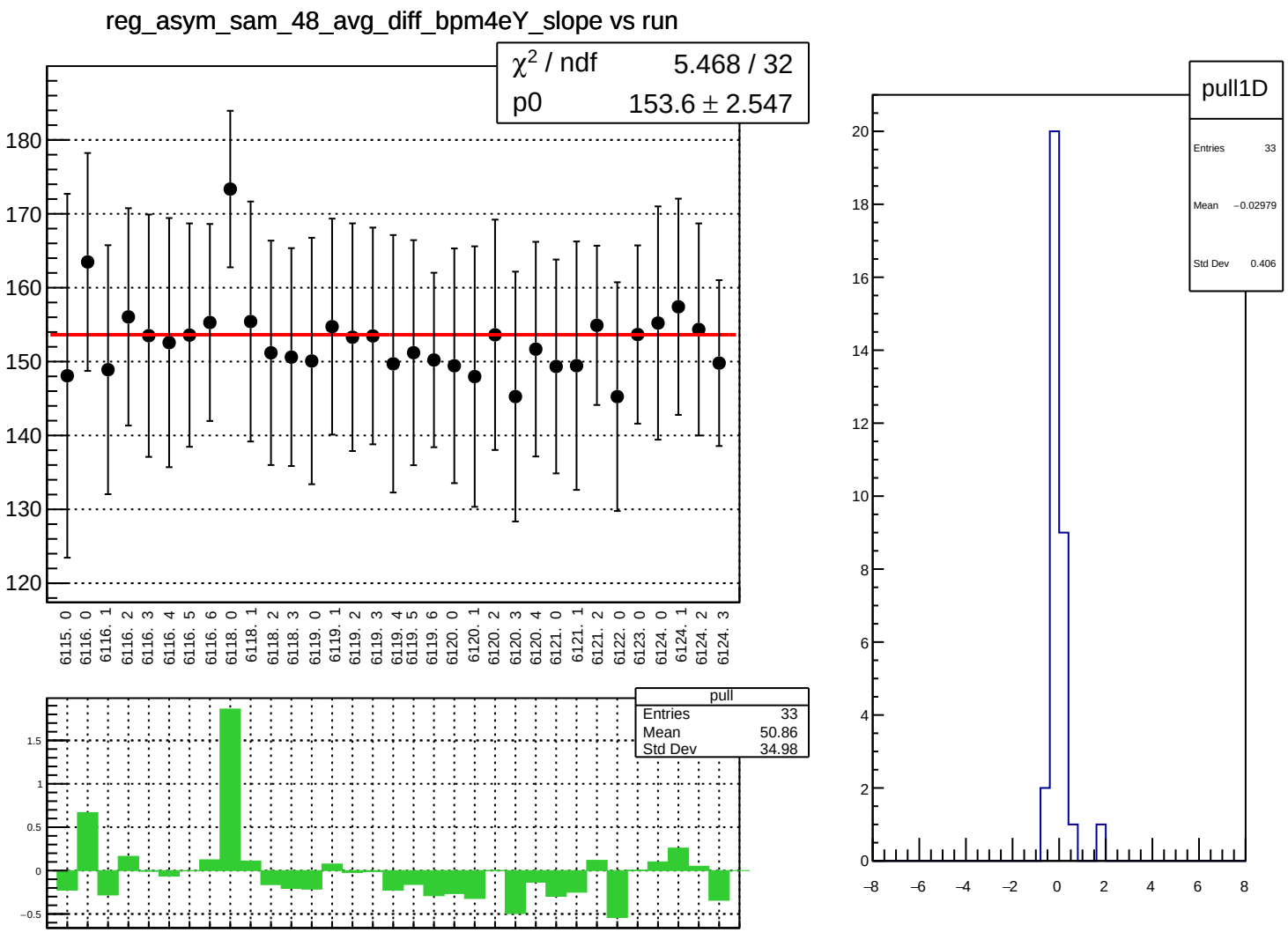

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.6262 / 32
p0 −27.14 ± 3.812
10
0
−10
−20
−30
−40
−50
−60
−70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 3679
Std Dev 3684
0.4
0.3
0.2
0.1
0
−0.1
−0.2

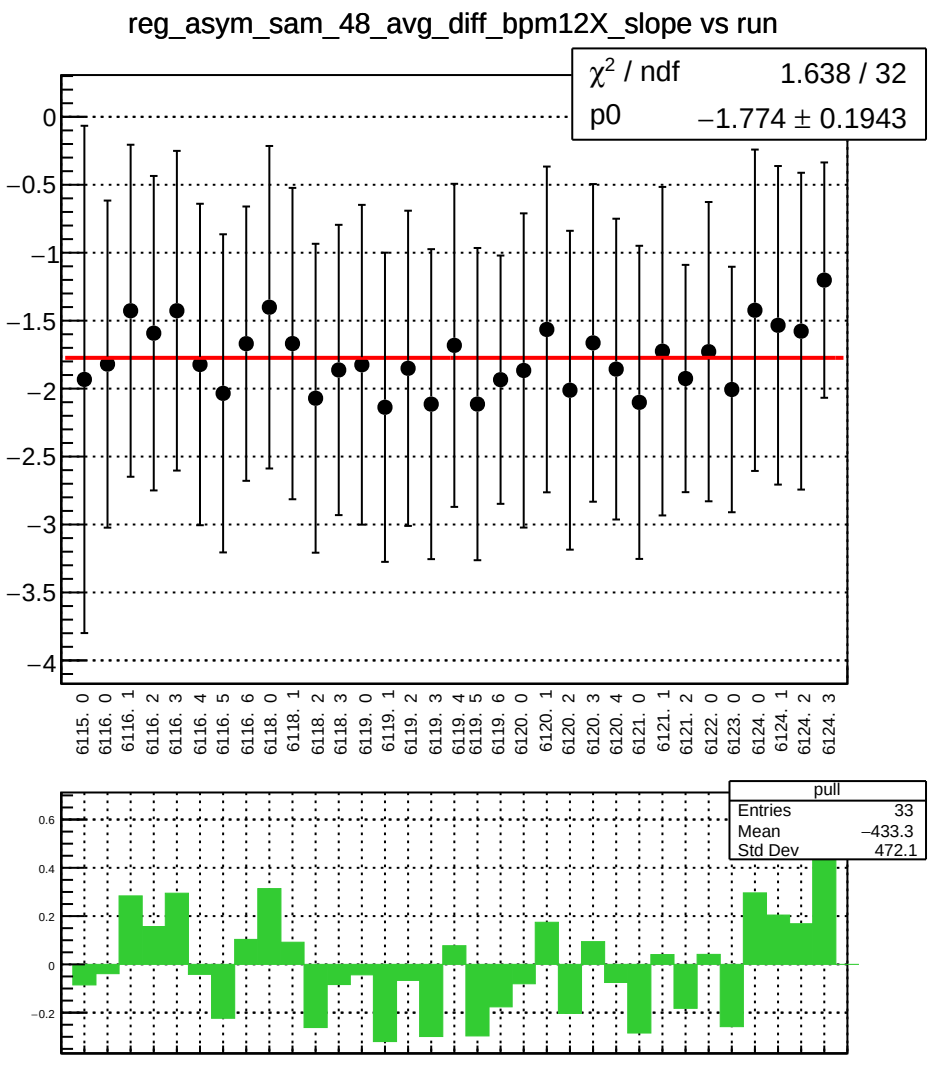

pull1D
Entries 33
Mean −1.932e−05
Std Dev 0.1378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

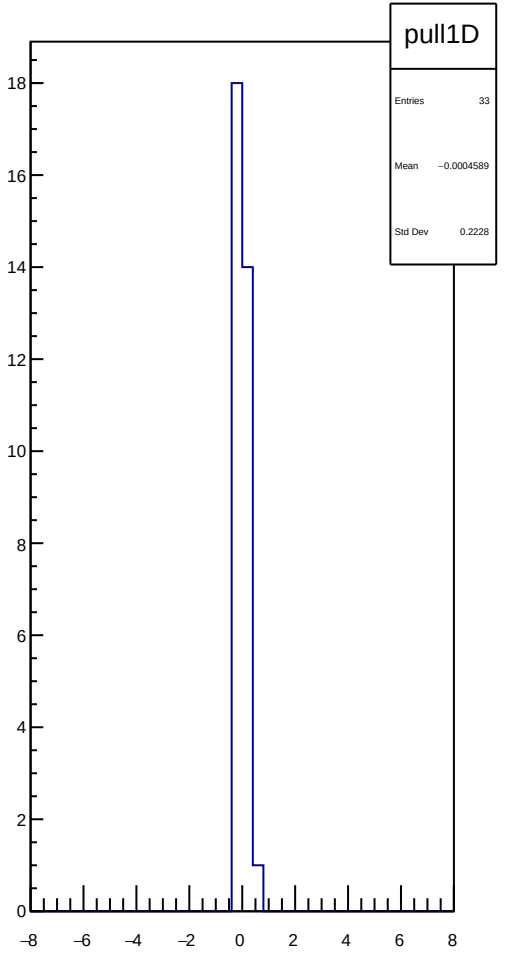

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.321 / 32
p0 −13.93 ± 2.382
10
0
−10
−20
−30
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 47.05
Std Dev 29.76
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.04239
Std Dev 0.4356
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

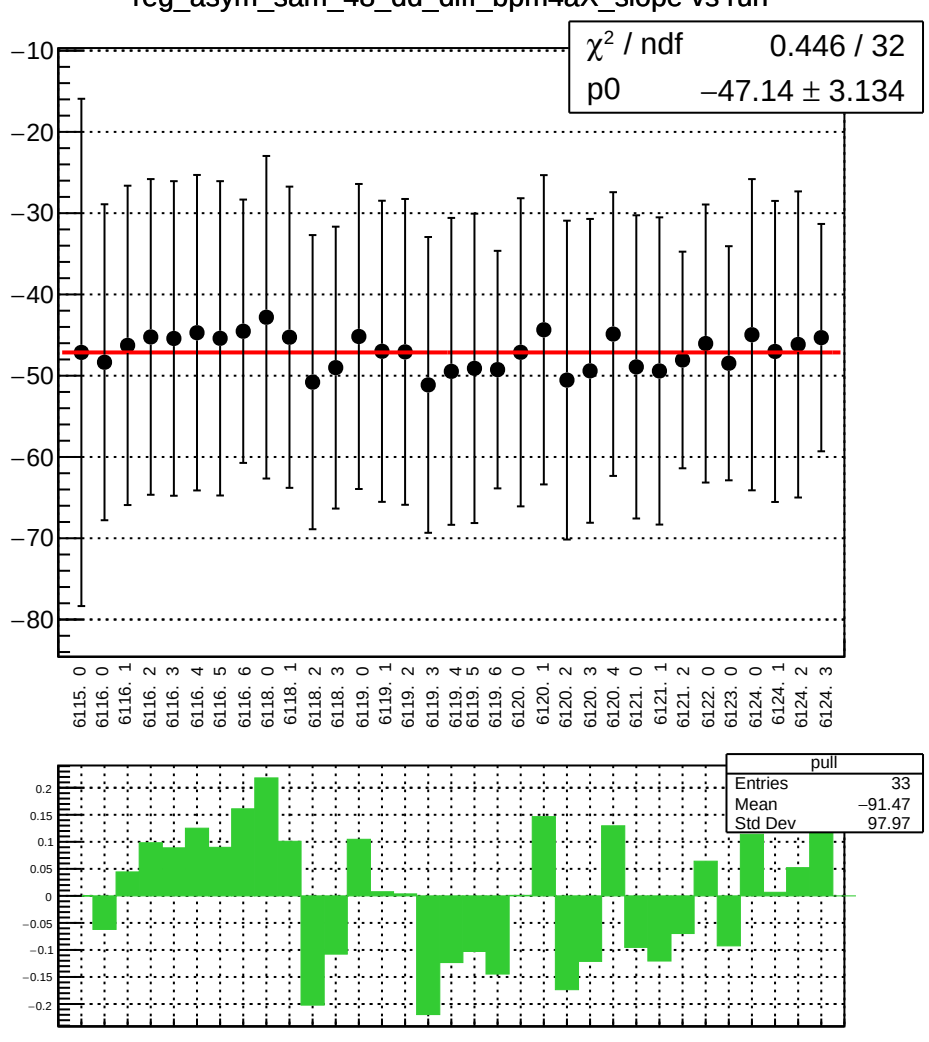

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.672 / 32
p0 −87.99 ± 4.435
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −160.5
Std Dev 216.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

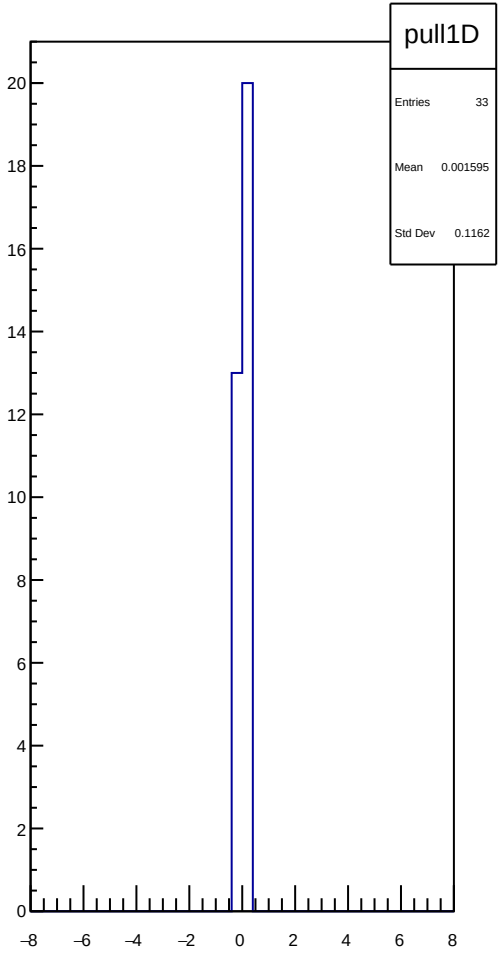

pull1D
Entries 33
Mean 0.0002648
Std Dev 0.1427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

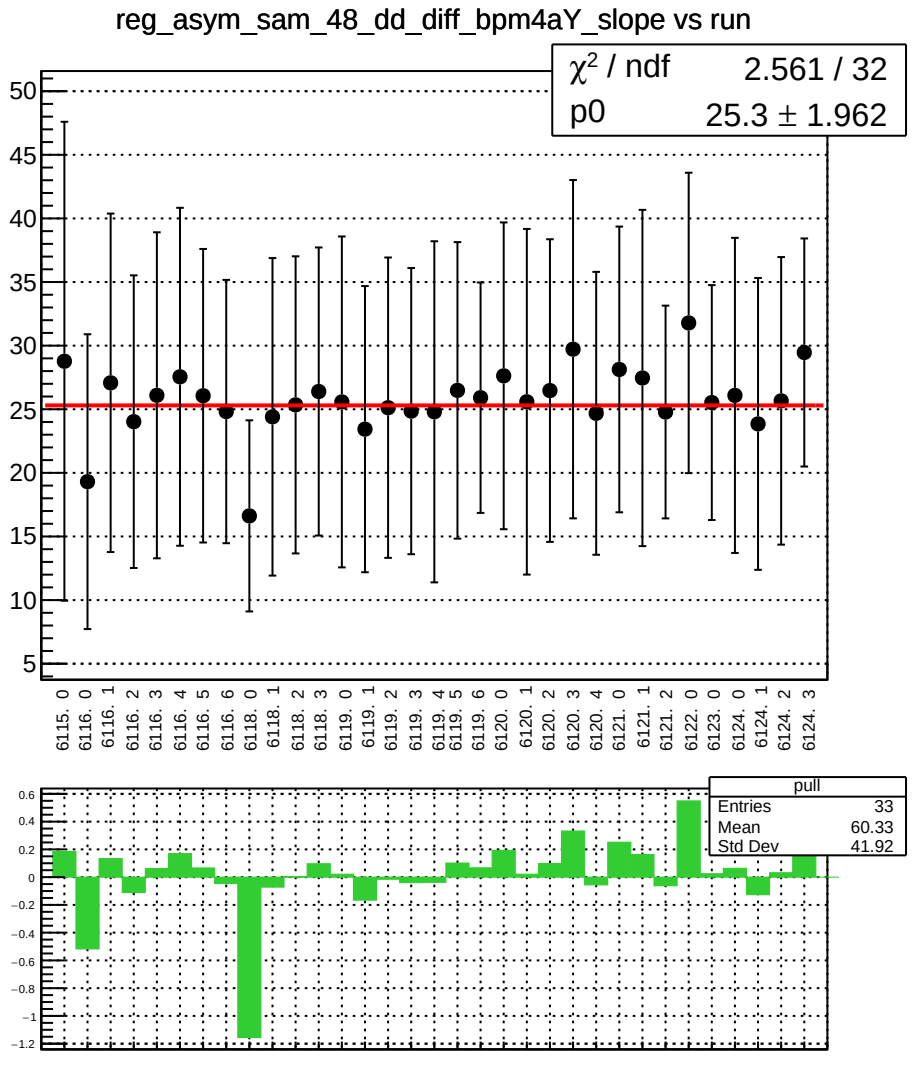

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.468 / 32
p0 153.6 ± 2.547
180
170
160
150
140
130
120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 50.86
Std Dev 34.98
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.02979
Std Dev 0.406
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

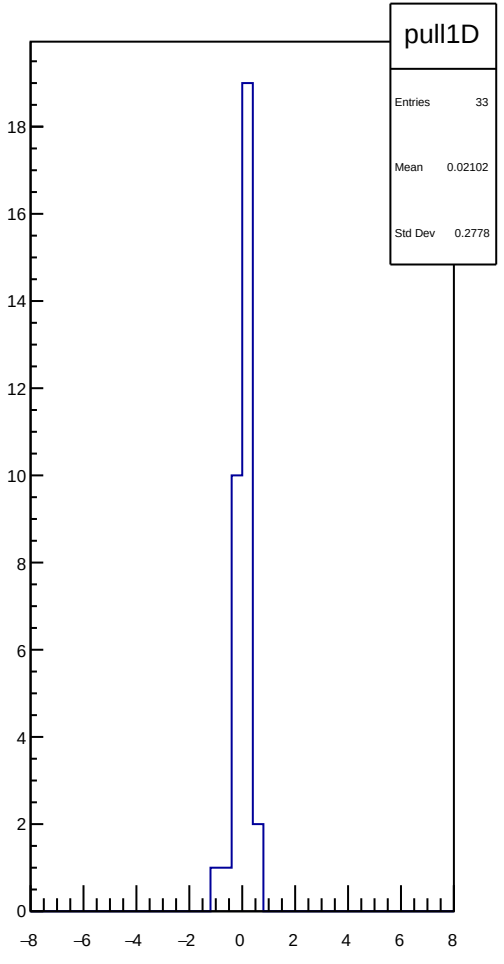

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.638 / 32
p0 −1.774 ± 0.1943
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −433.3
Std Dev 472.1
0.6
0.4
0.2
0
−0.2

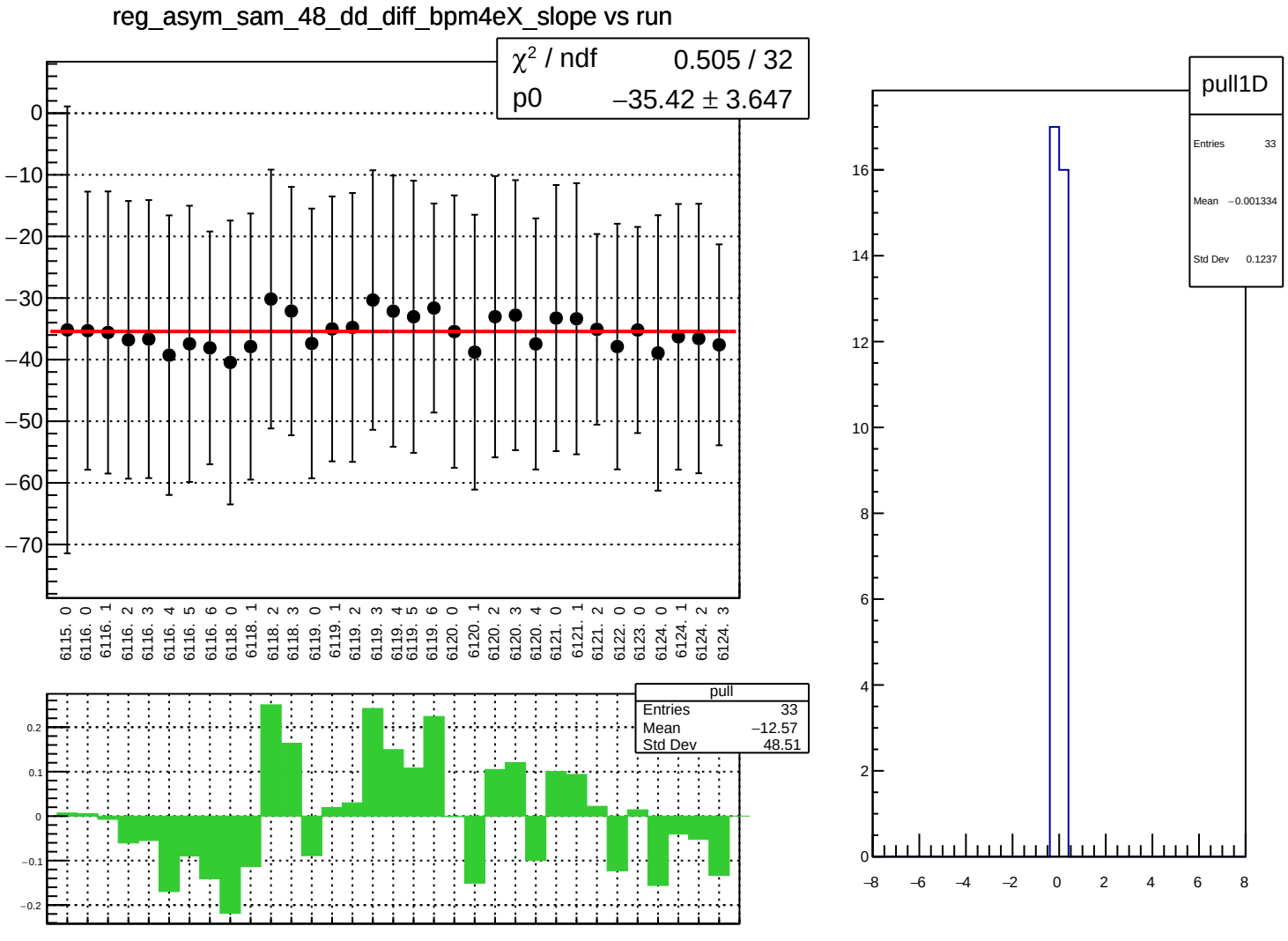

pull1D
Entries 33
Mean −0.0004589
Std Dev 0.2228
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

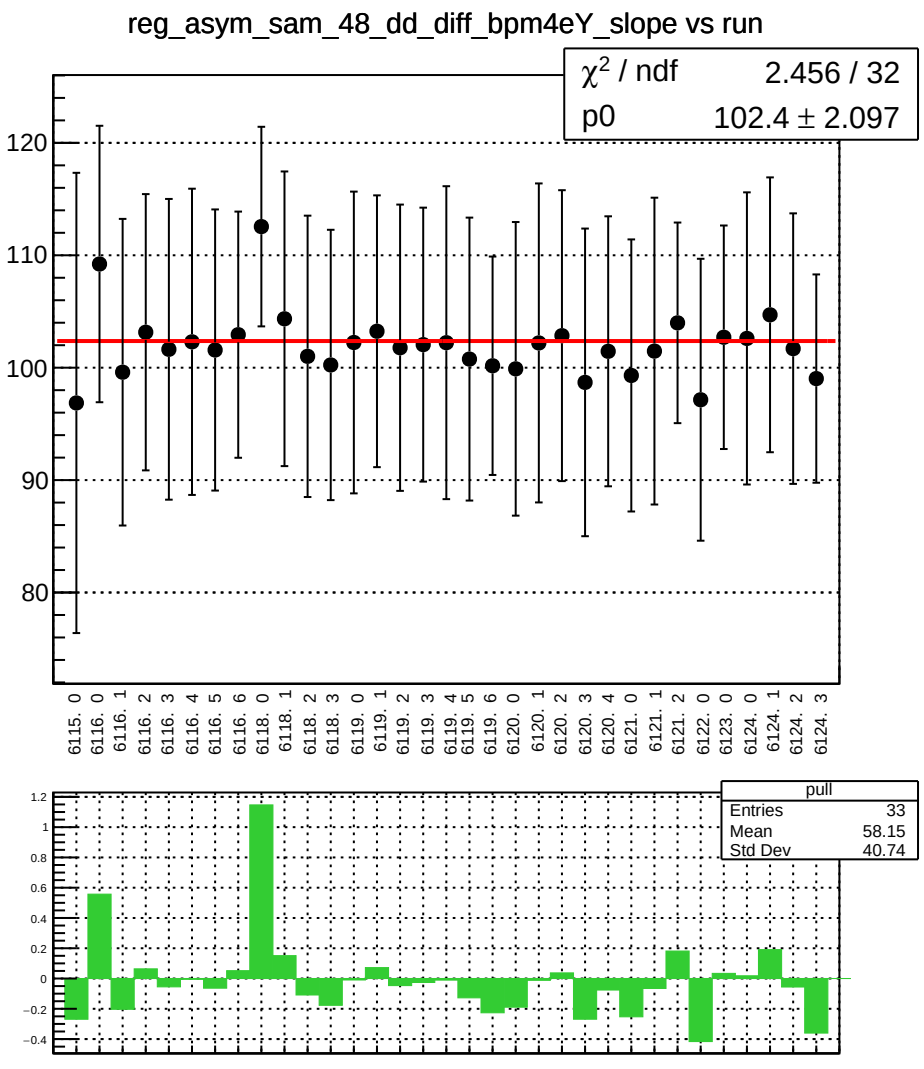

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.446 / 32
p0 −47.14 ± 3.134
pull
Entries 33
Mean −91.47
Std Dev 97.97

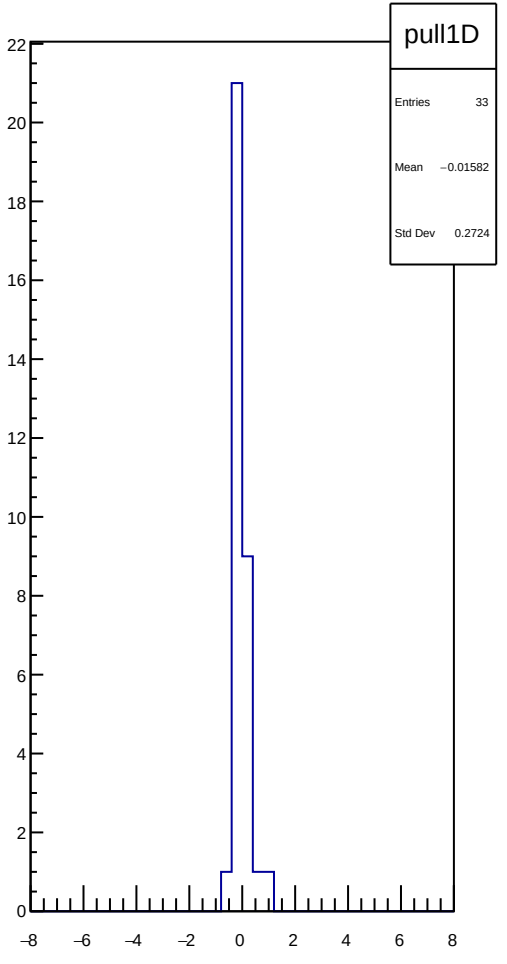

pull1D
Entries 33
Mean 0.001595
Std Dev 0.1162

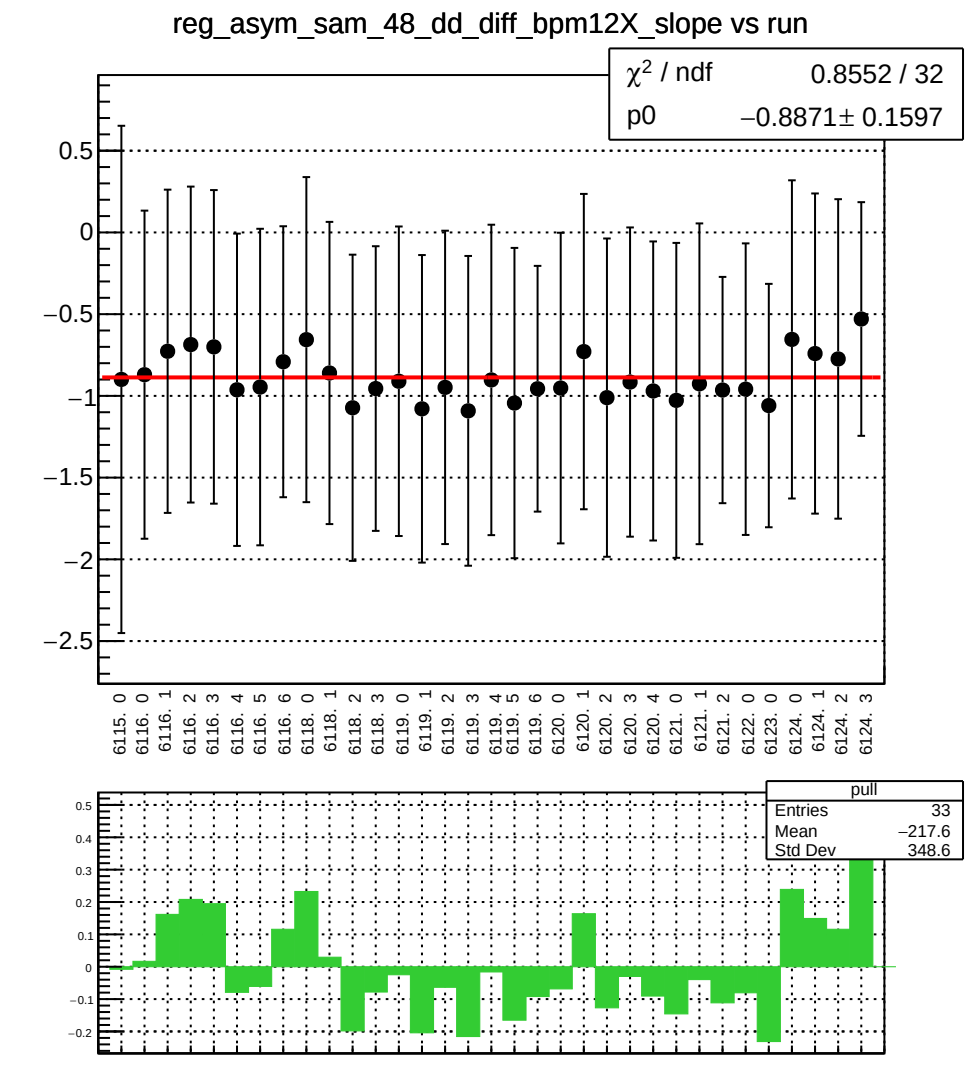

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.561 / 32
p0 25.3 ± 1.962
pull
Entries 33
Mean 60.33
Std Dev 41.92

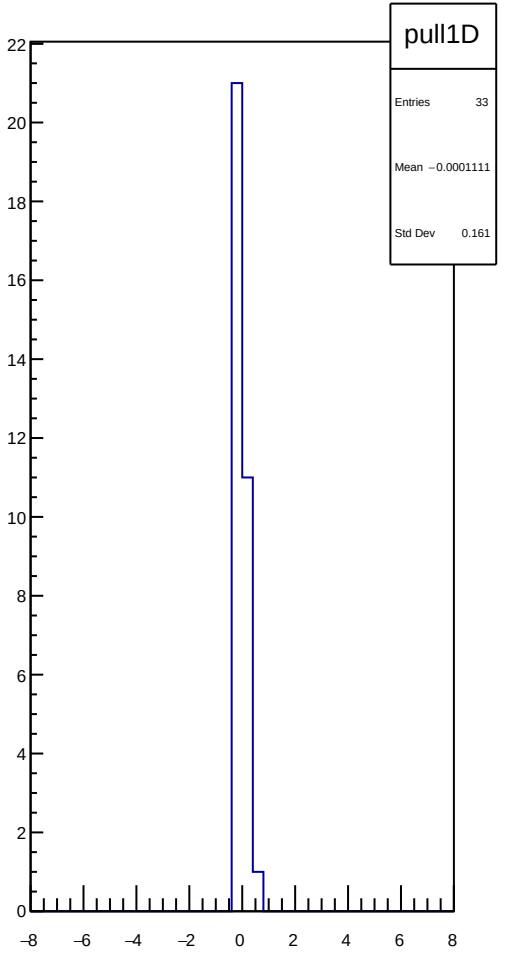

pull1D
Entries 33
Mean 0.02102
Std Dev 0.2778

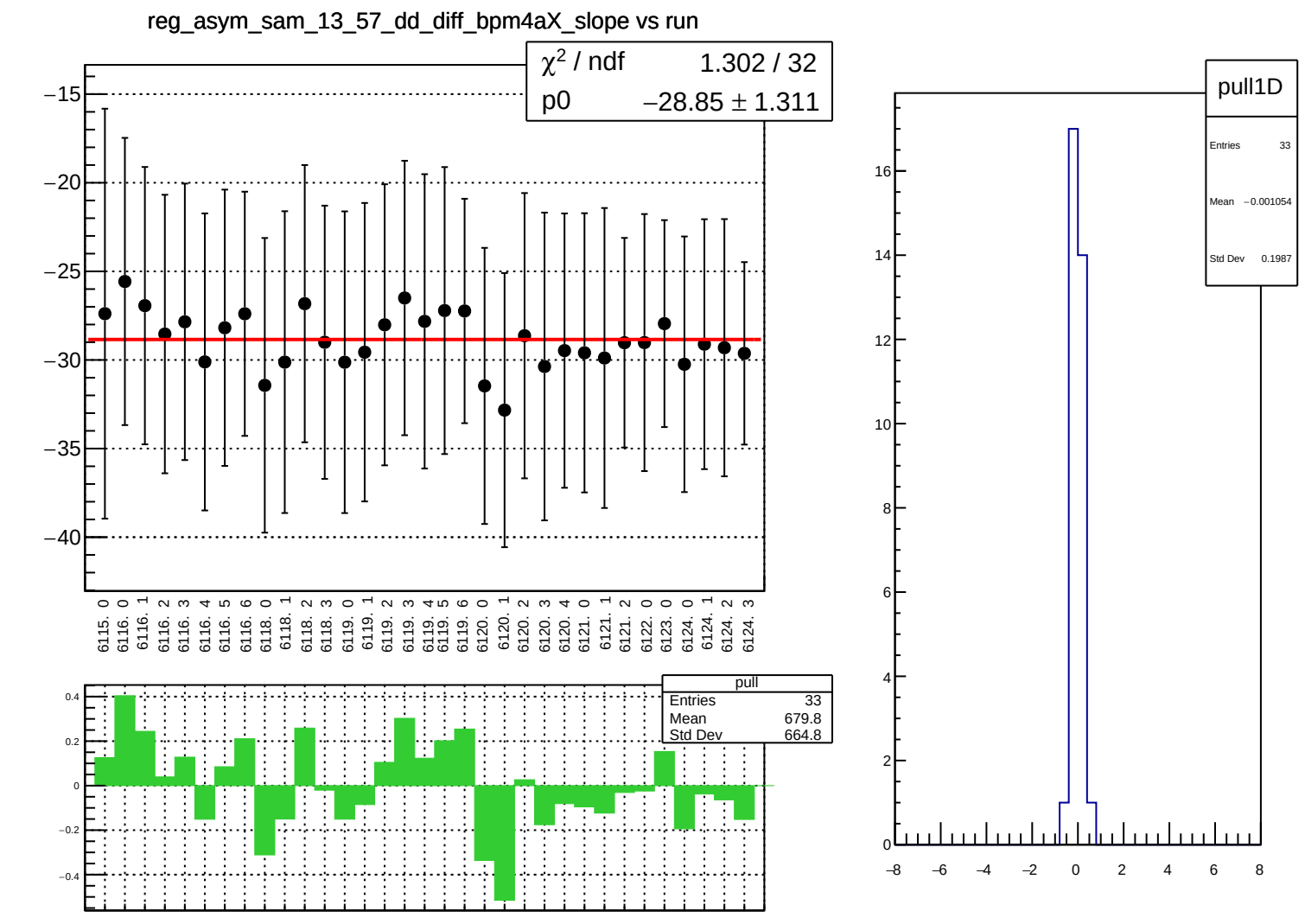

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.505 / 32
p0 −35.42 ± 3.647
0
−10
−20
−30
−40
−50
−60
−70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −12.57
Std Dev 48.51
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean −0.001334
Std Dev 0.1237
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

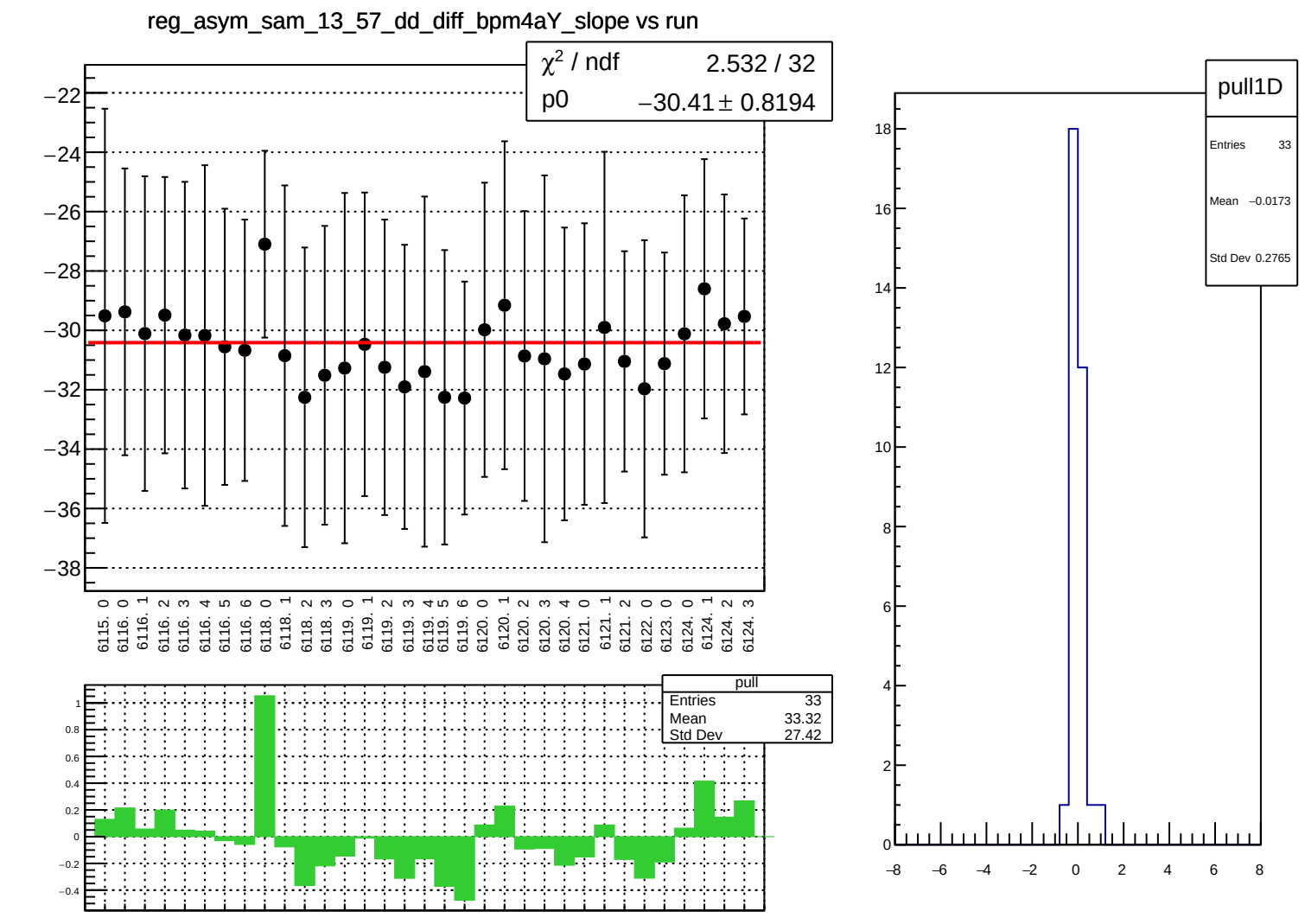

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.456 / 32
p0 102.4 ± 2.097
120
110
100
90
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 58.15
Std Dev 40.74
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

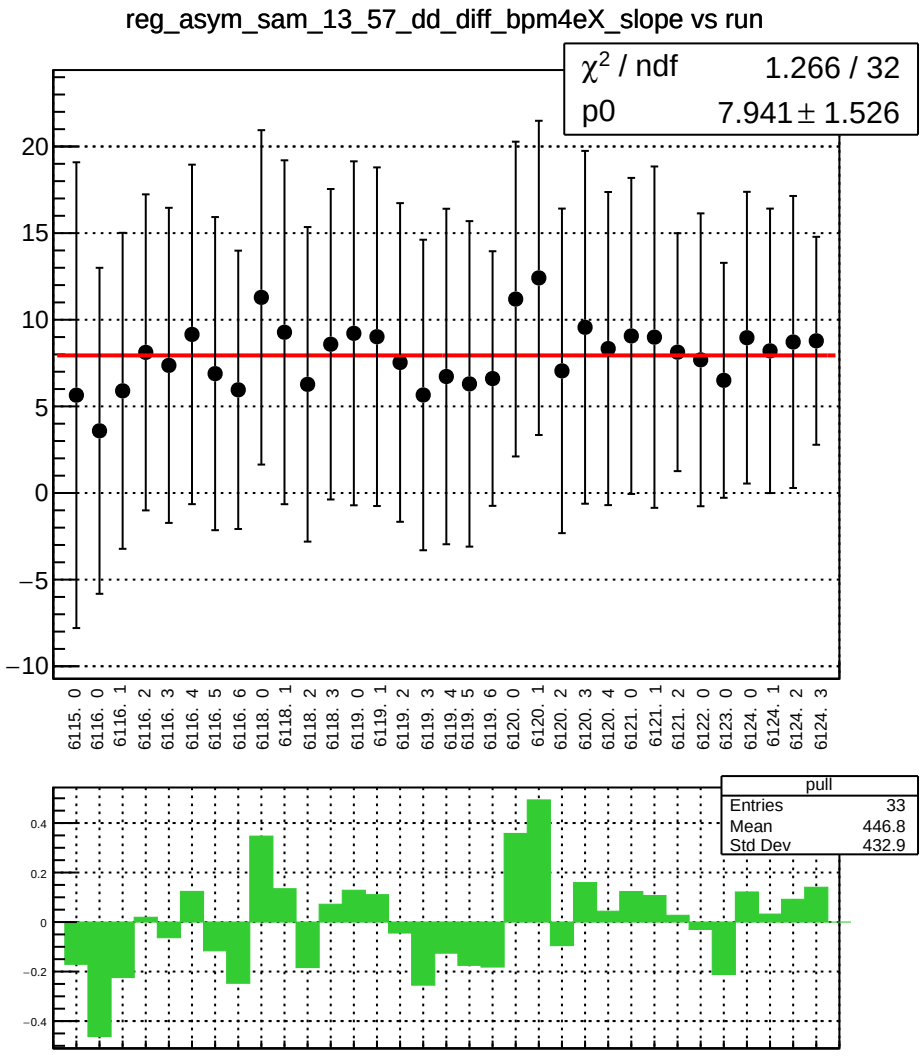

pull1D
Entries 33
Mean −0.01582
Std Dev 0.2724
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

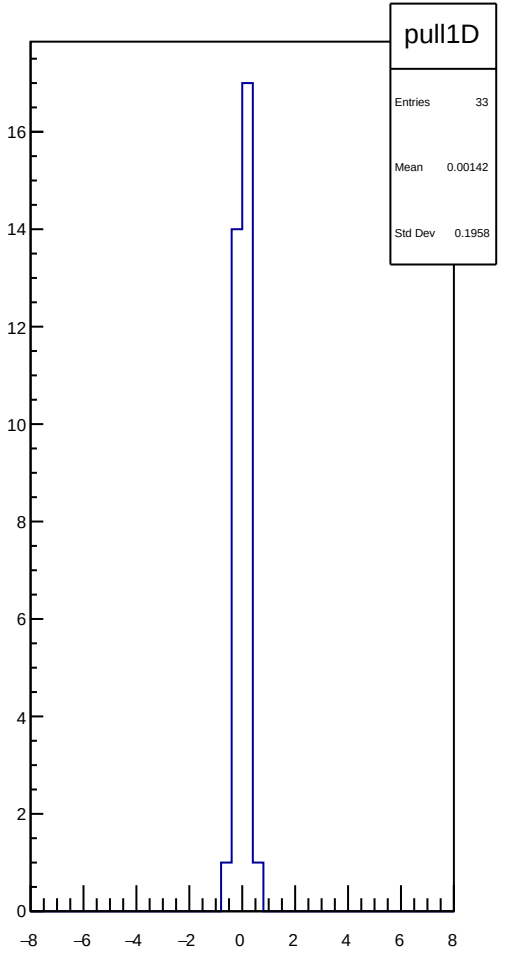

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8552 / 32
p0 −0.8871± 0.1597
0.5
0
−0.5
−1
−1.5
−2
−2.5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −217.6
Std Dev 348.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

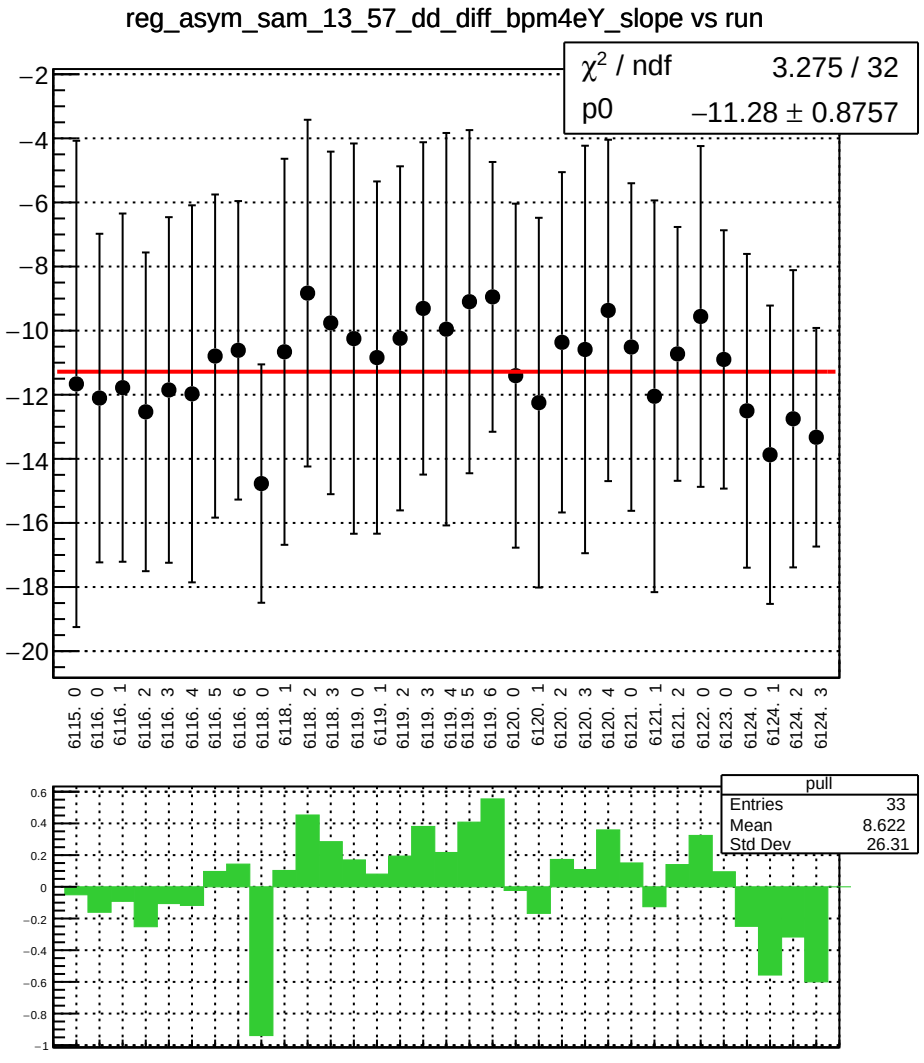

pull1D
Entries 33
Mean −0.0001111
Std Dev 0.161
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

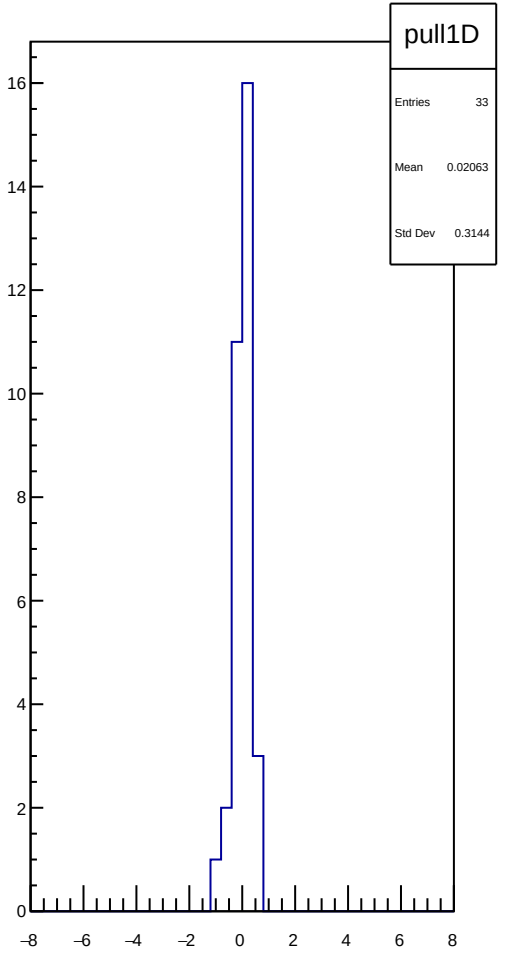

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.302 / 32
p0 −28.85 ± 1.311
−15
−20
−25
−30
−35
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 679.8
Std Dev 664.8
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean −0.001054
Std Dev 0.1987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

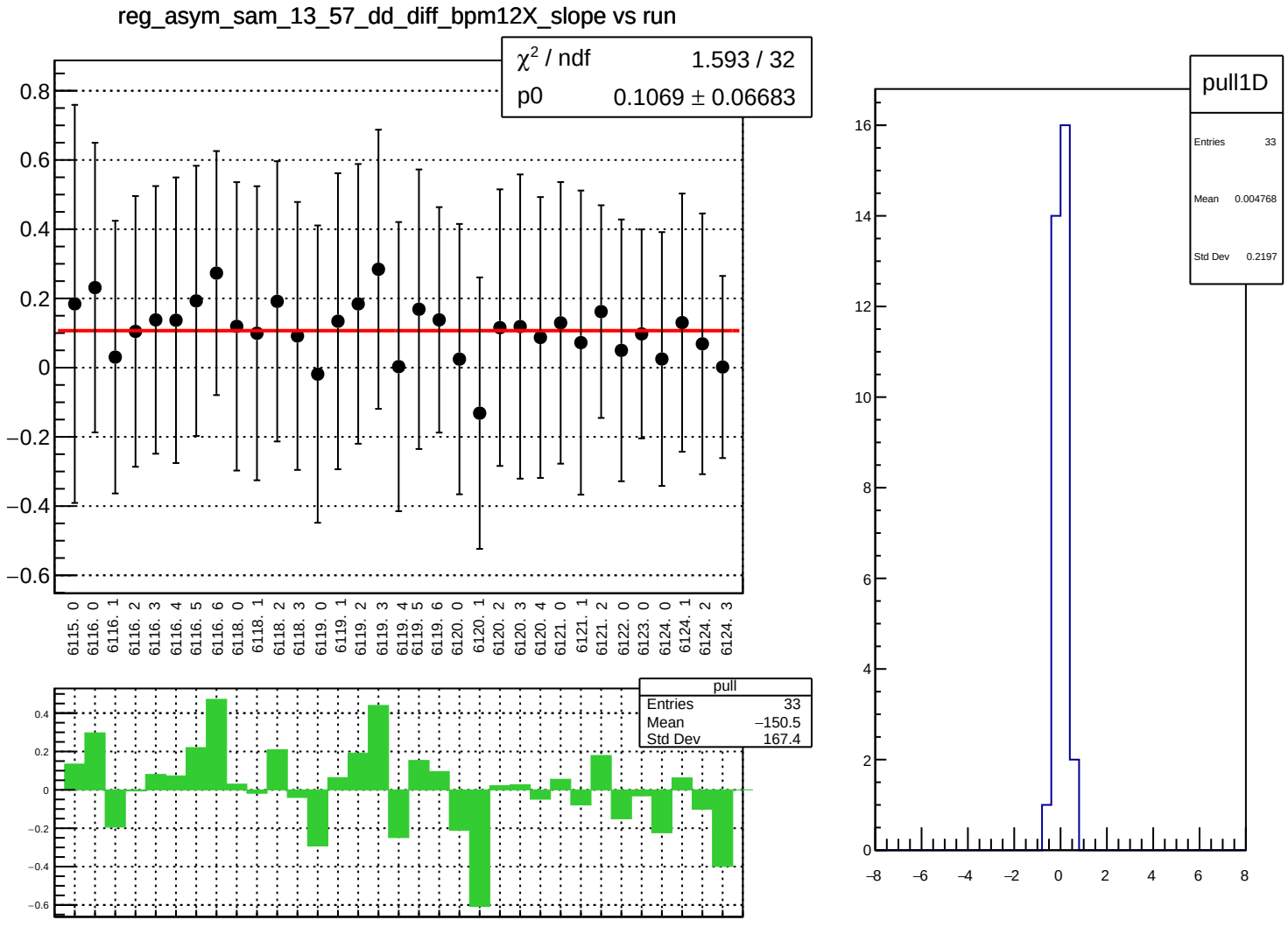

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.532 / 32
p0 −30.41 ± 0.8194
−22
−24
−26
−28
−30
−32
−34
−36
−38
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 33.32
Std Dev 27.42
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean −0.0173
Std Dev 0.2765
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

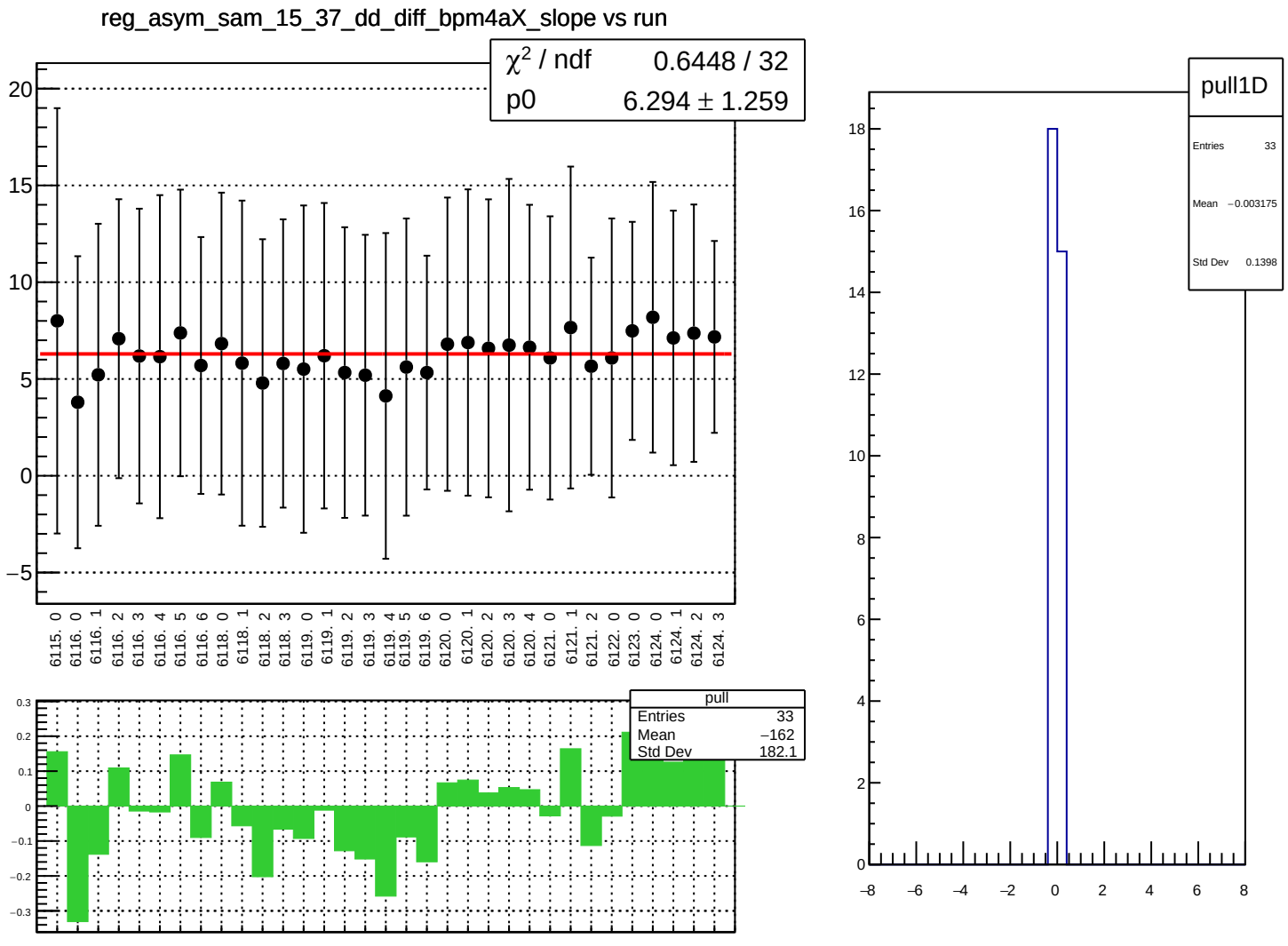

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.266 / 32
p0 7.941 ± 1.526
pull
Entries 33
Mean 446.8
Std Dev 432.9
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3

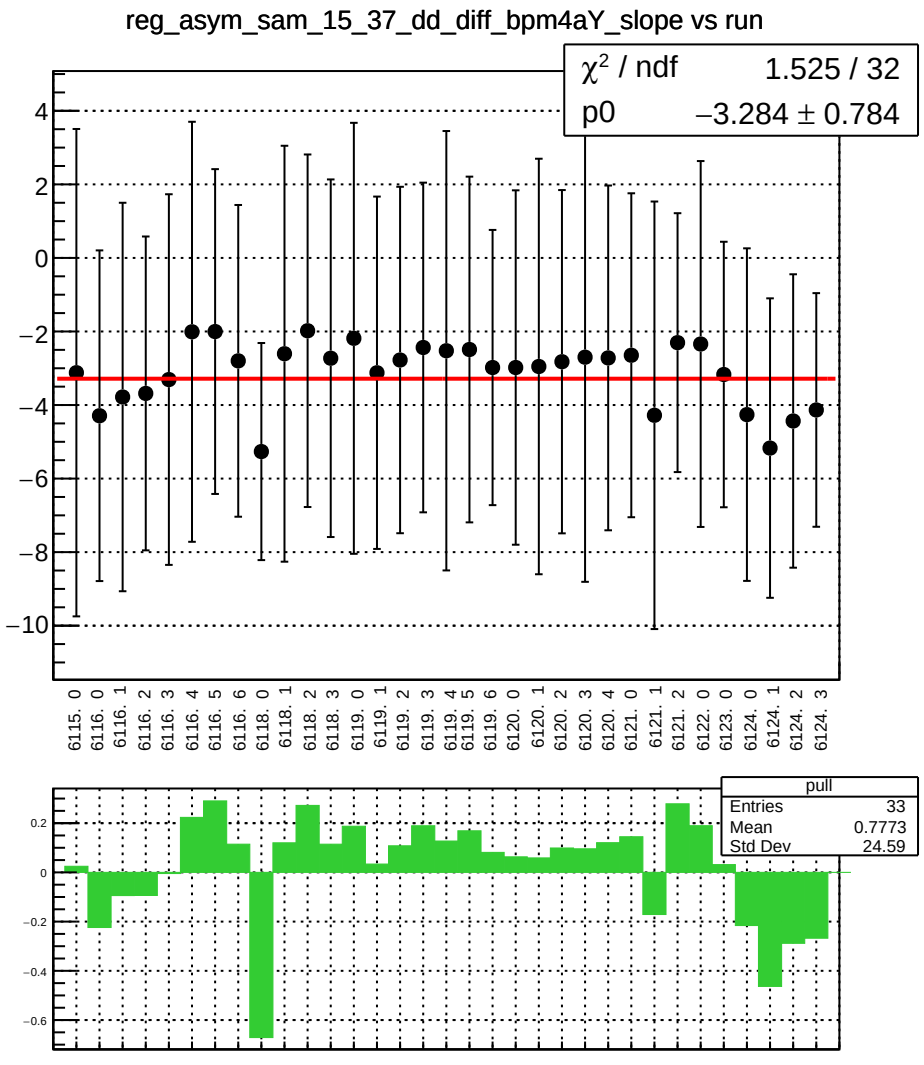

pull1D
Entries 33
Mean 0.00142
Std Dev 0.1958

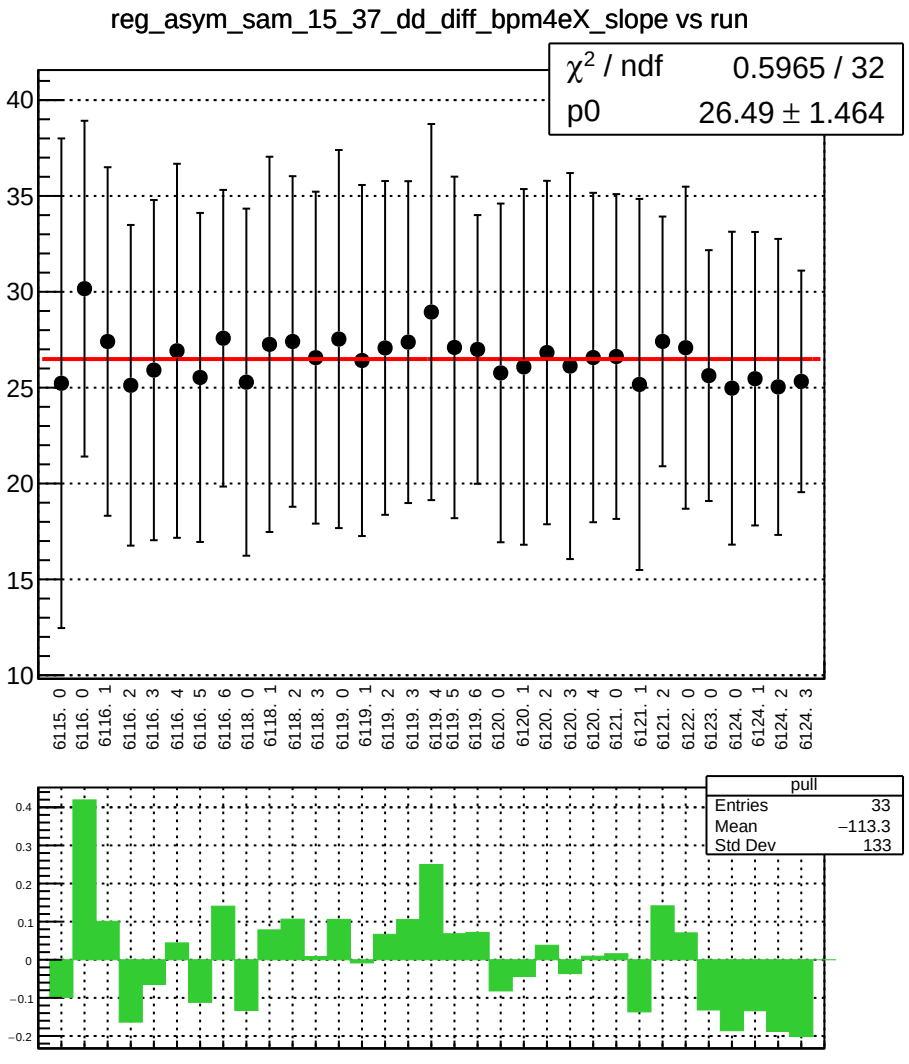

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.275 / 32
p0 −11.28 ± 0.8757
−2
−4
−6
−8
−10
−12
−14
−16
−18
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 8.622
Std Dev 26.31
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

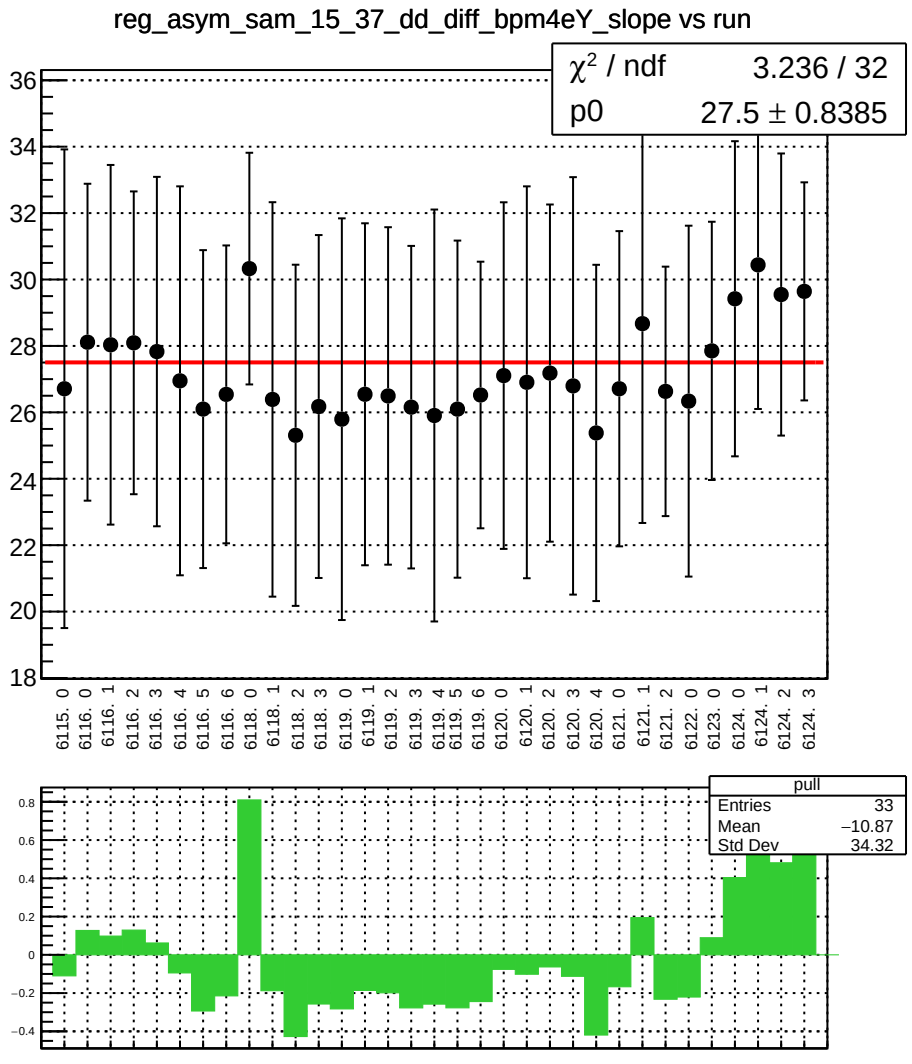

pull1D
Entries 33
Mean 0.02063
Std Dev 0.3144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

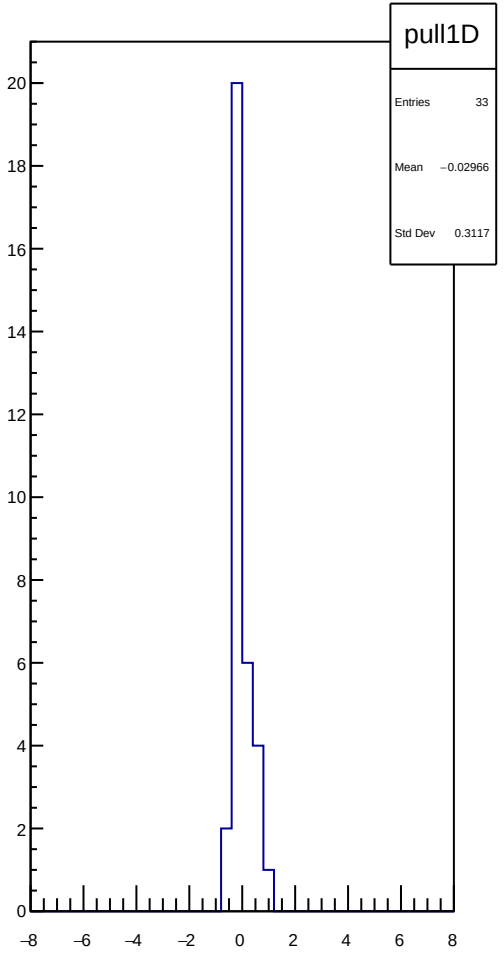

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.593 / 32
p0 0.1069 ± 0.06683
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −150.5
Std Dev 167.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean 0.004768
Std Dev 0.2197
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

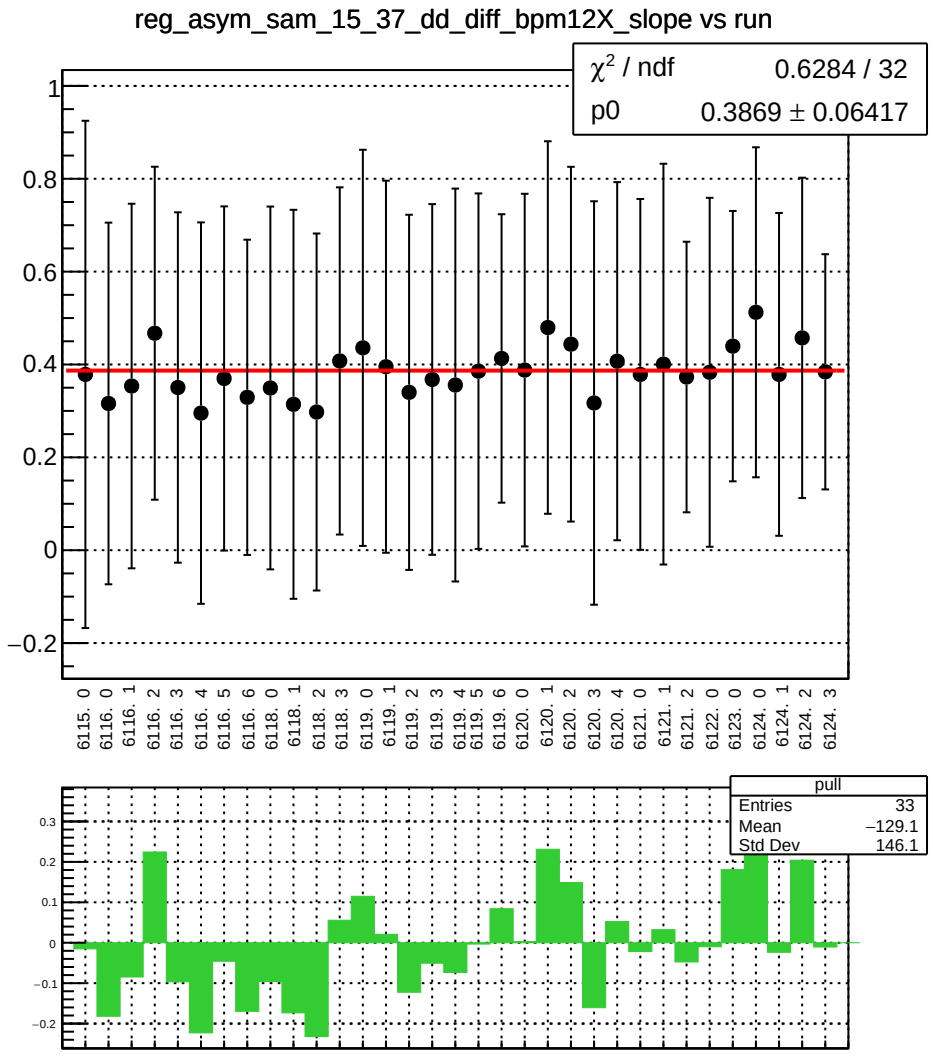

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.6448 / 32
p0 6.294 ± 1.259
pull
Entries 33
Mean −162
Std Dev 182.1
pull1D
Entries 33
Mean −0.003175
Std Dev 0.1398

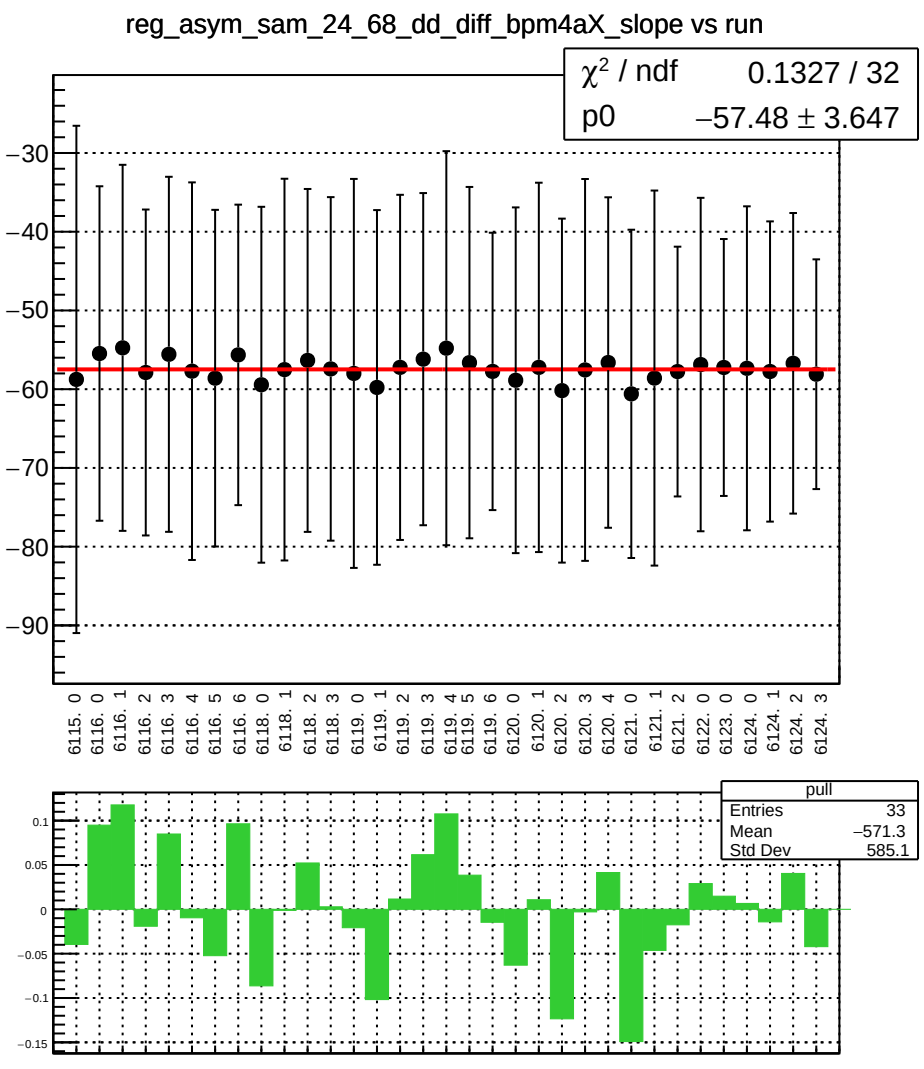

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.525 / 32
p0 −3.284 ± 0.784
4
2
0
−2
−4
−6
−8
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 0.7773
Std Dev 24.59
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean 0.01951
Std Dev 0.2141
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

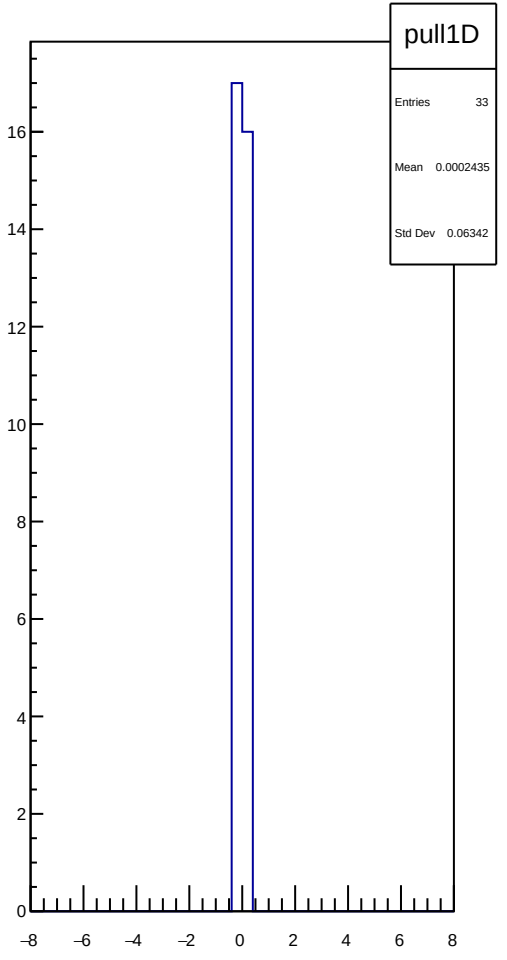

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5965 / 32
p0 26.49 ± 1.464
40
35
30
25
20
15
10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −113.3
Std Dev 133
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean 0.003655
Std Dev 0.1344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

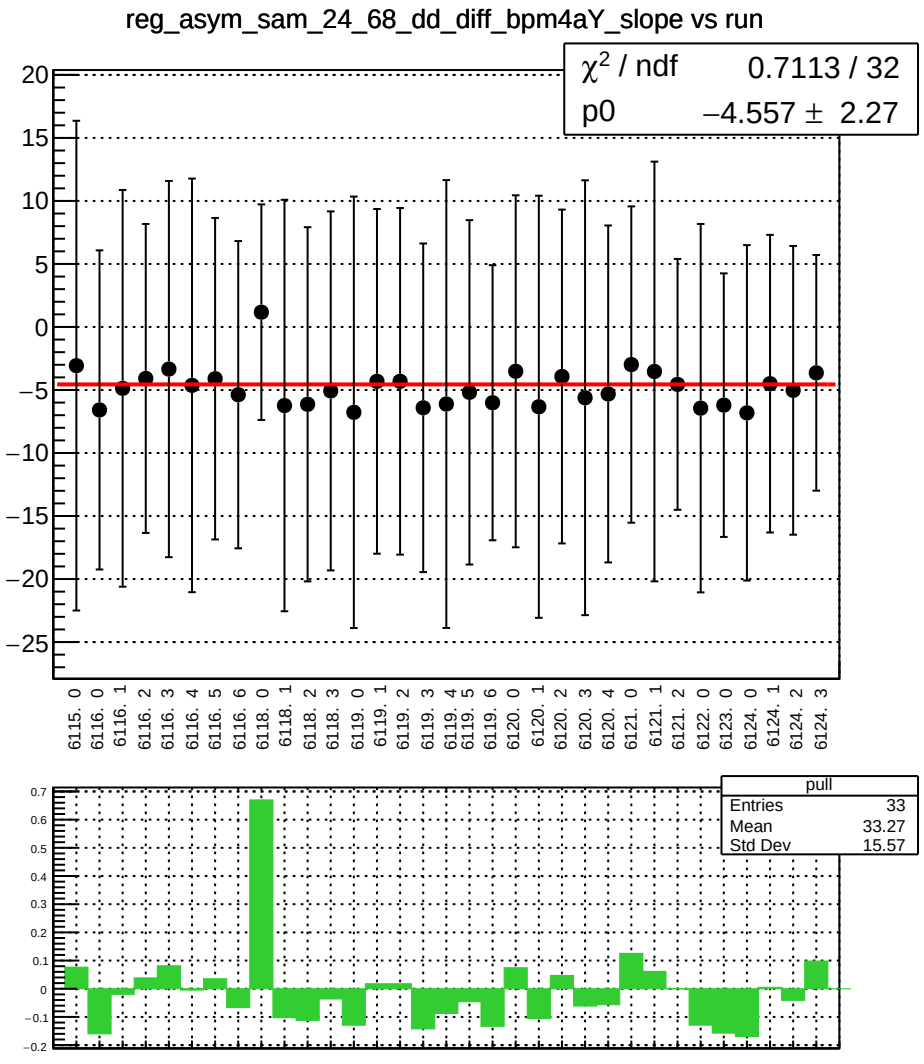

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.236 / 32
p0 27.5 ± 0.8385
pull
Entries 33
Mean −10.87
Std Dev 34.32

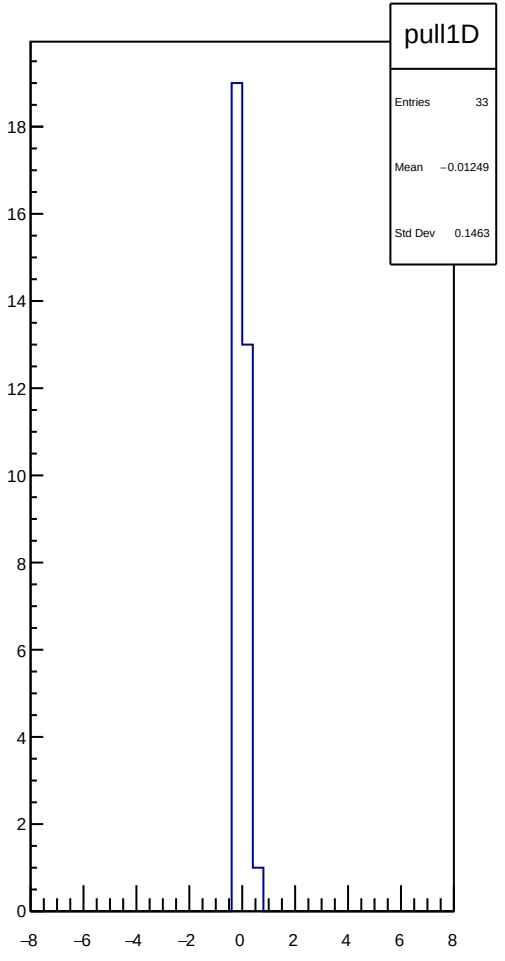

pull1D
Entries 33
Mean −0.02966
Std Dev 0.3117

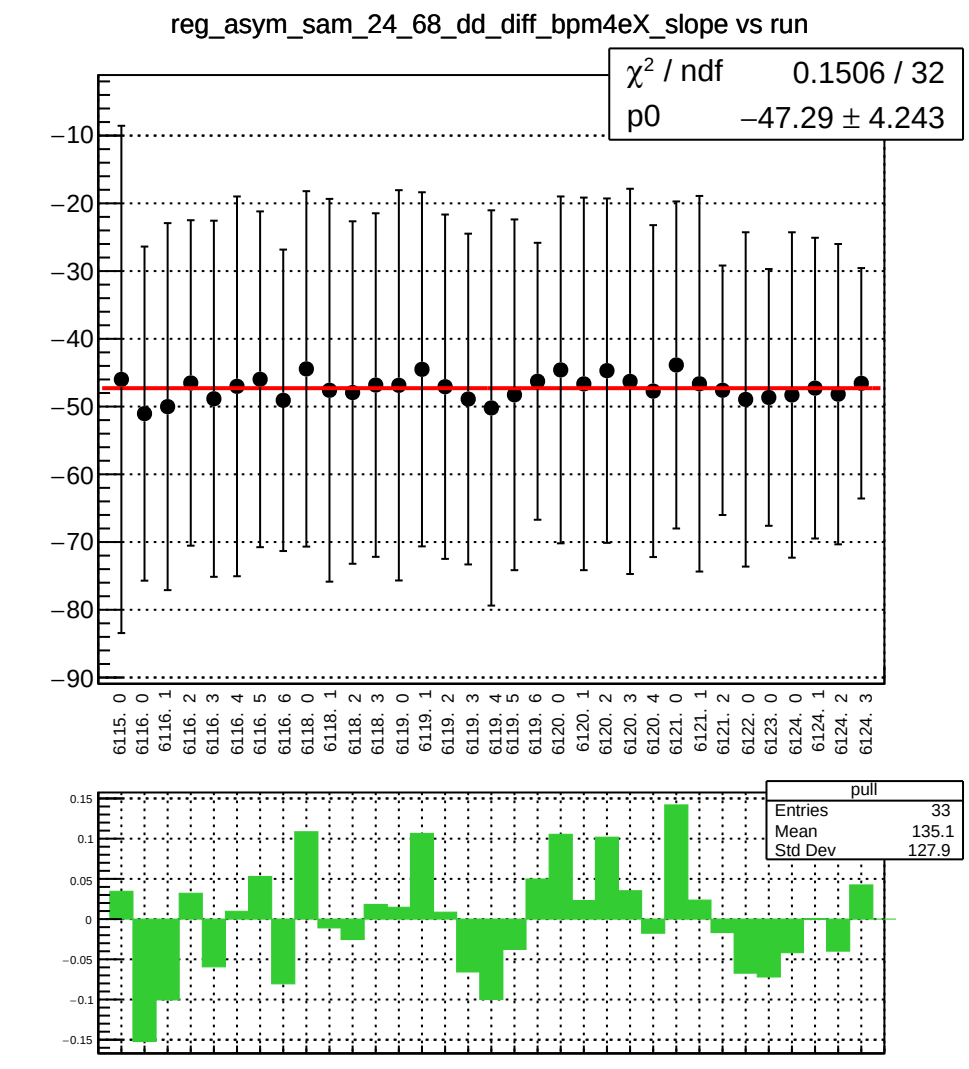

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6284 / 32
p0 0.3869 ± 0.06417
1
0.8
0.6
0.4
0.2
0
−0.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −129.1
Std Dev 146.1
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean −0.004123
Std Dev 0.1379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

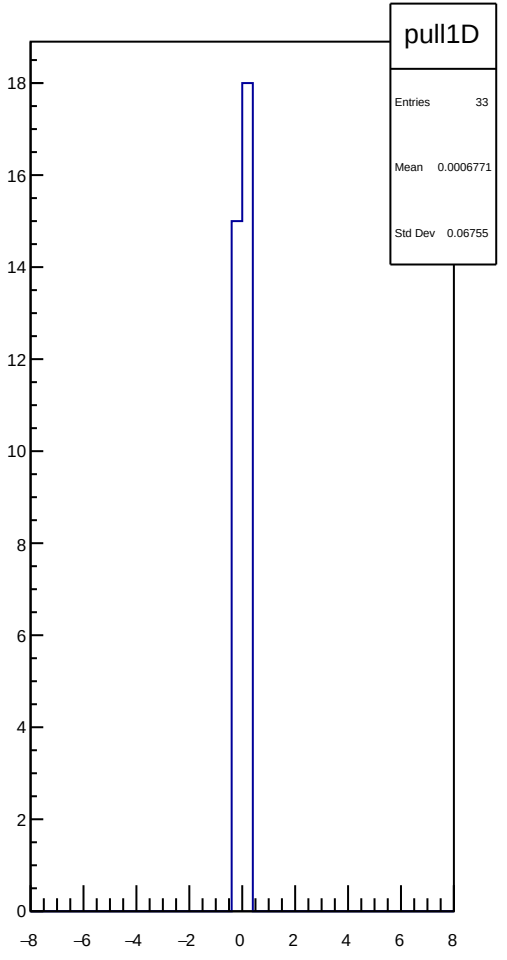

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.1327 / 32
p0 −57.48 ± 3.647
−30
−40
−50
−60
−70
−80
−90
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −571.3
Std Dev 585.1
0.1
0.05
0
−0.05
−0.1
−0.15

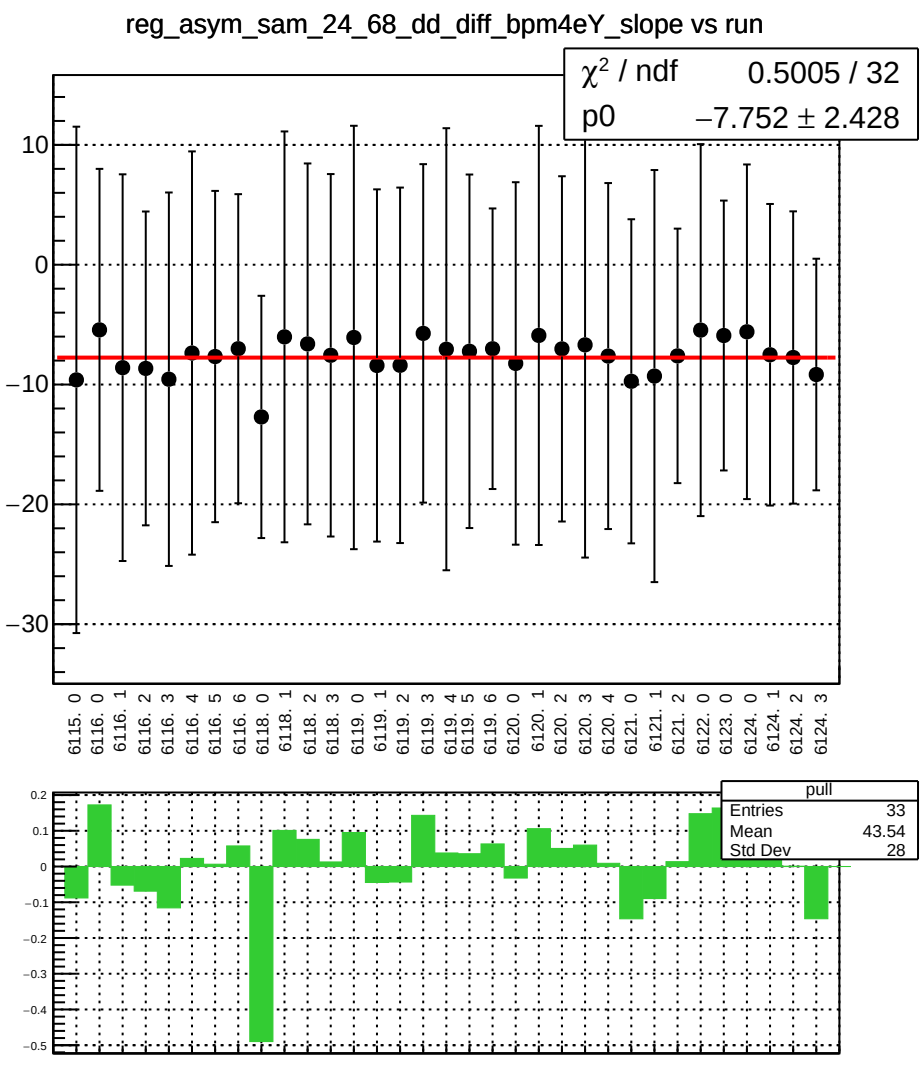

pull1D
Entries 33
Mean 0.0002435
Std Dev 0.06342
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

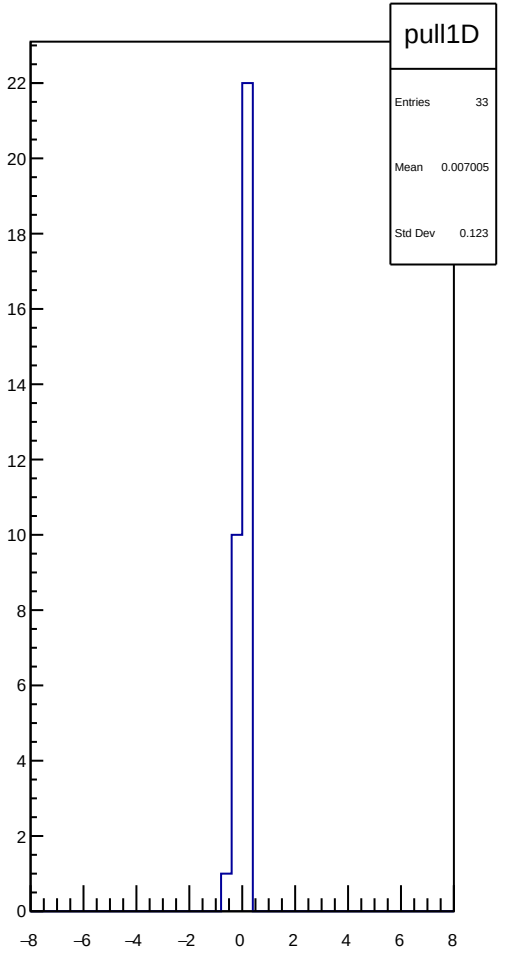

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7113 / 32
p0 −4.557 ± 2.27
pull
Entries 33
Mean 33.27
Std Dev 15.57

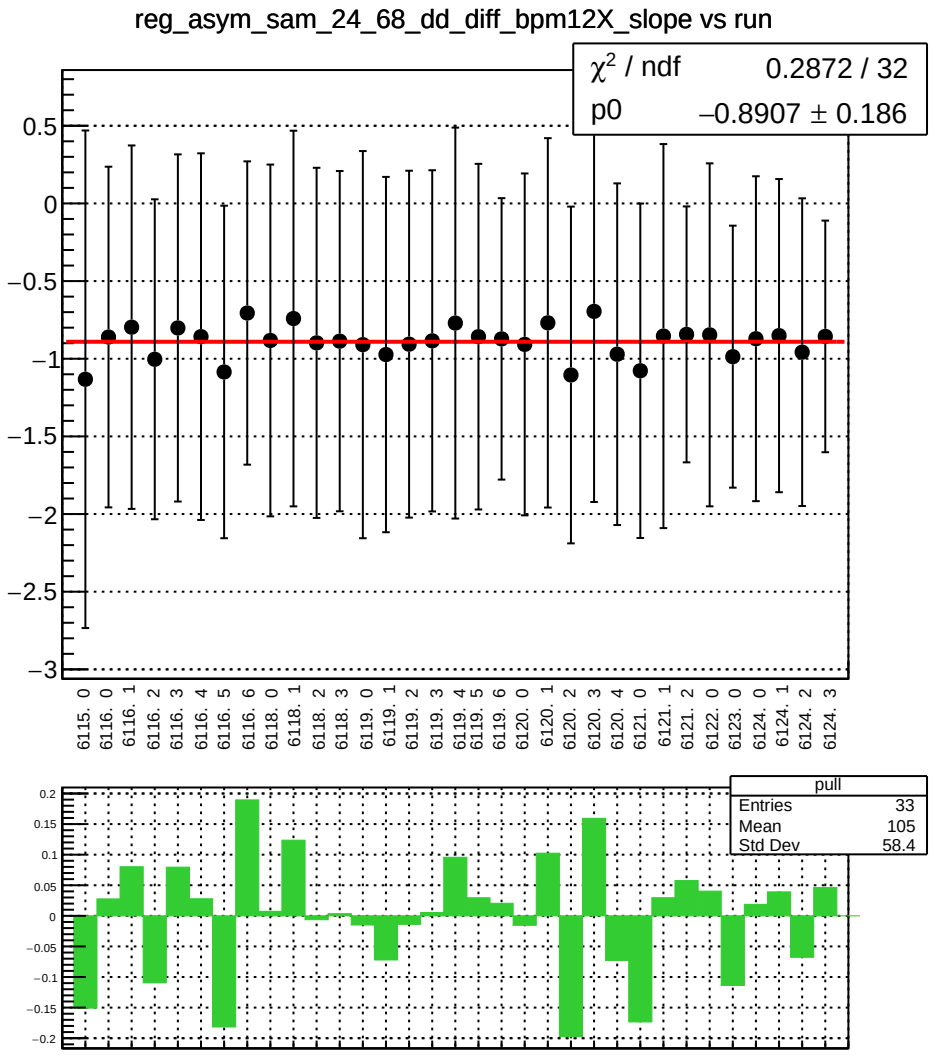

pull1D
Entries 33
Mean −0.01249
Std Dev 0.1463

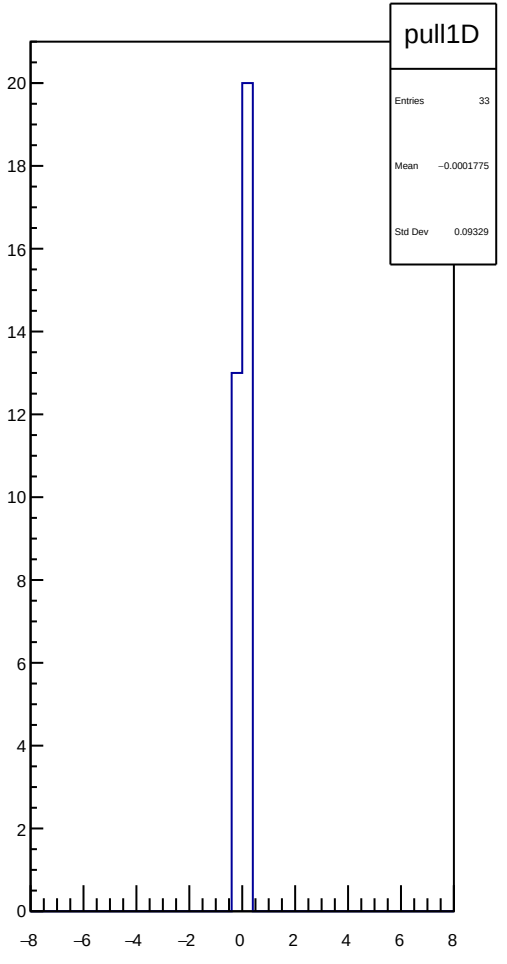

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.1506 / 32
p0 −47.29 ± 4.243
−10
−20
−30
−40
−50
−60
−70
−80
−90
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 135.1
Std Dev 127.9
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

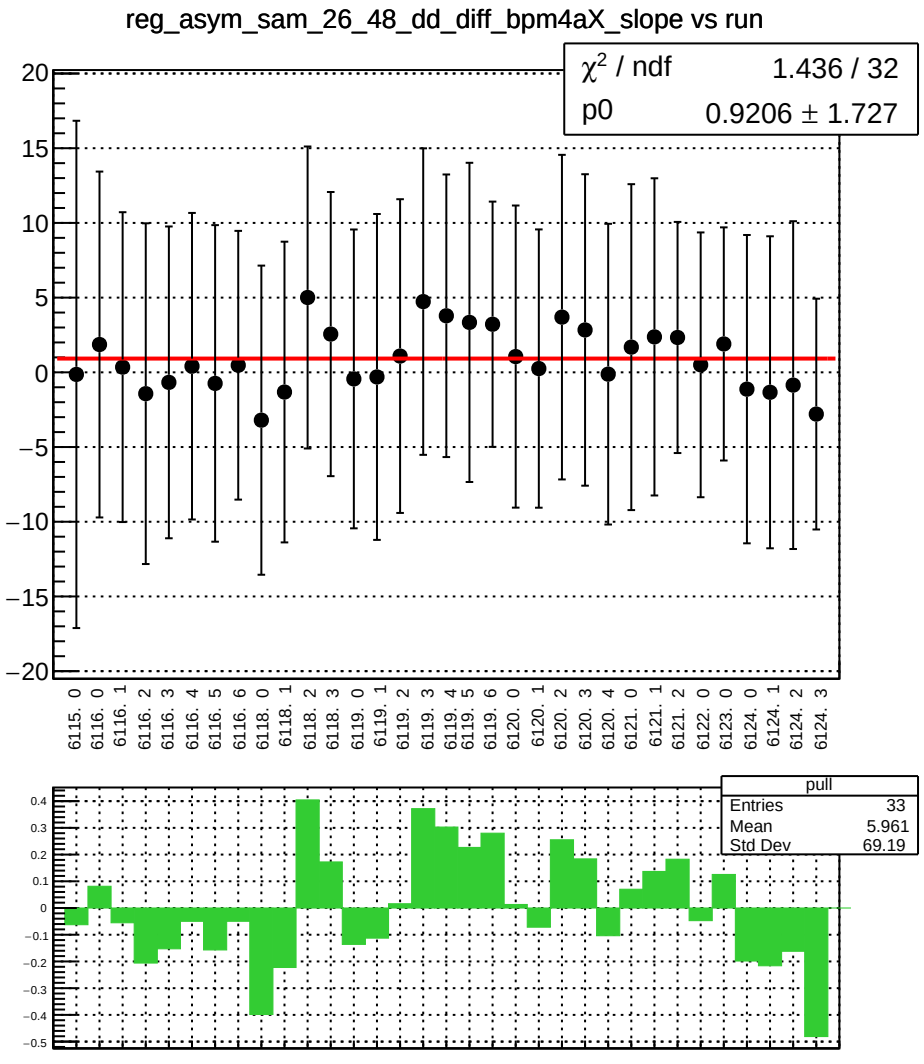

pull1D
Entries 33
Mean 0.0006771
Std Dev 0.06755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

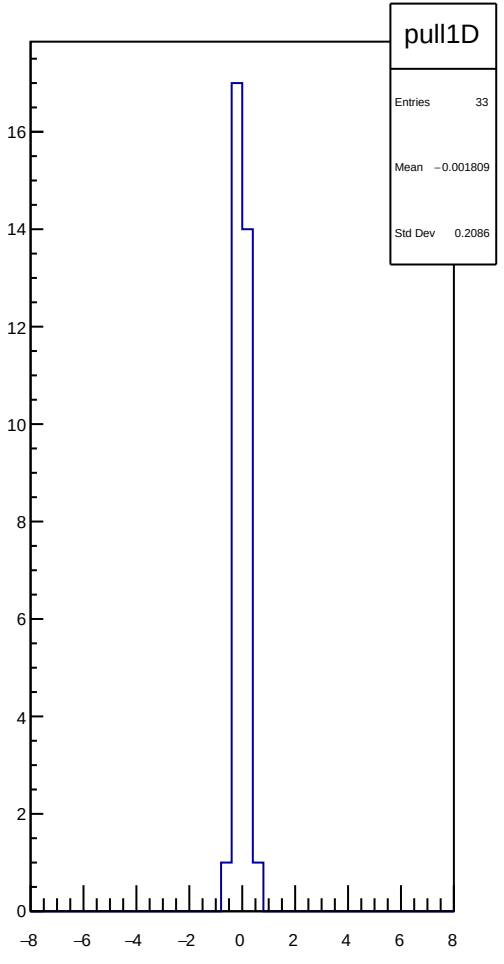

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5005 / 32
p0 −7.752 ± 2.428
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 43.54
Std Dev 28
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

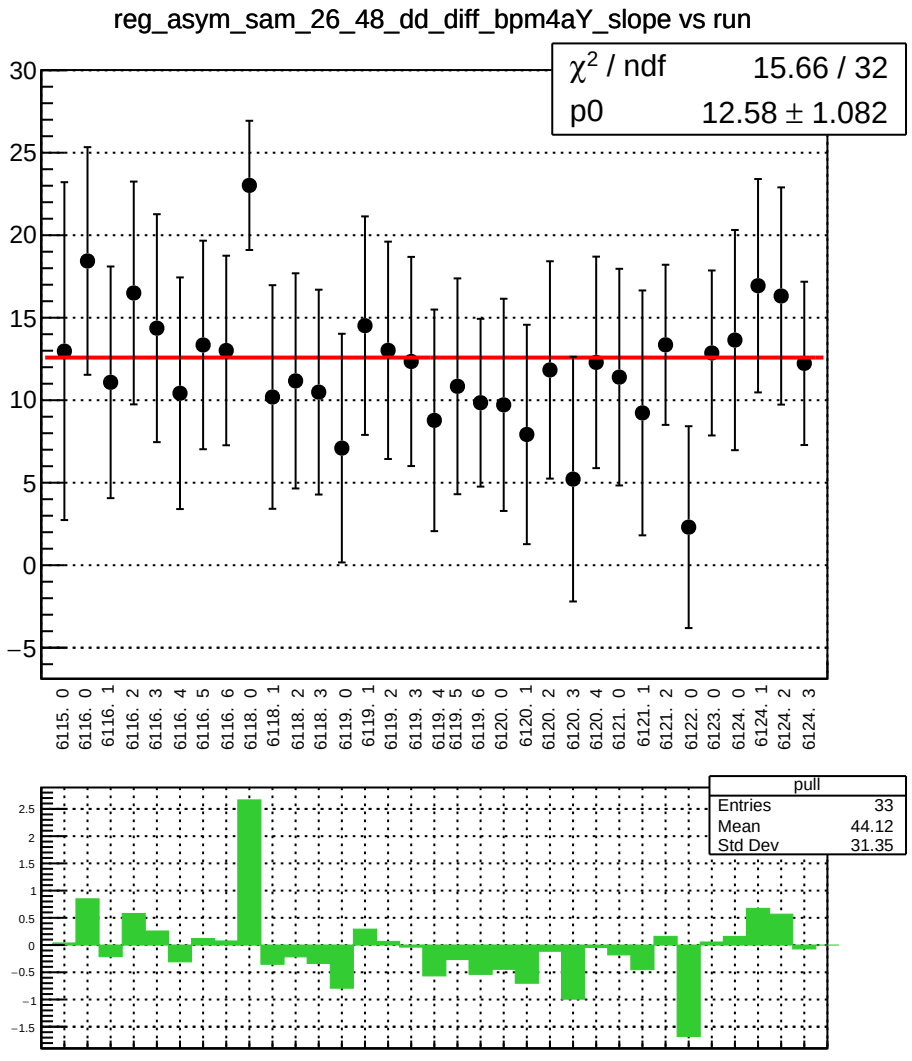

pull1D
Entries 33
Mean 0.007005
Std Dev 0.123
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

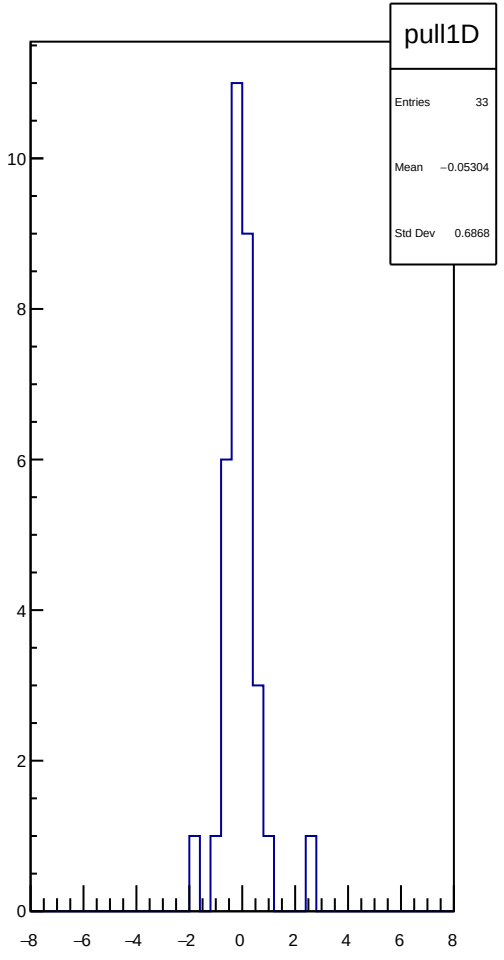

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.2872 / 32
p0 −0.8907 ± 0.186
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 105
Std Dev 58.4
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

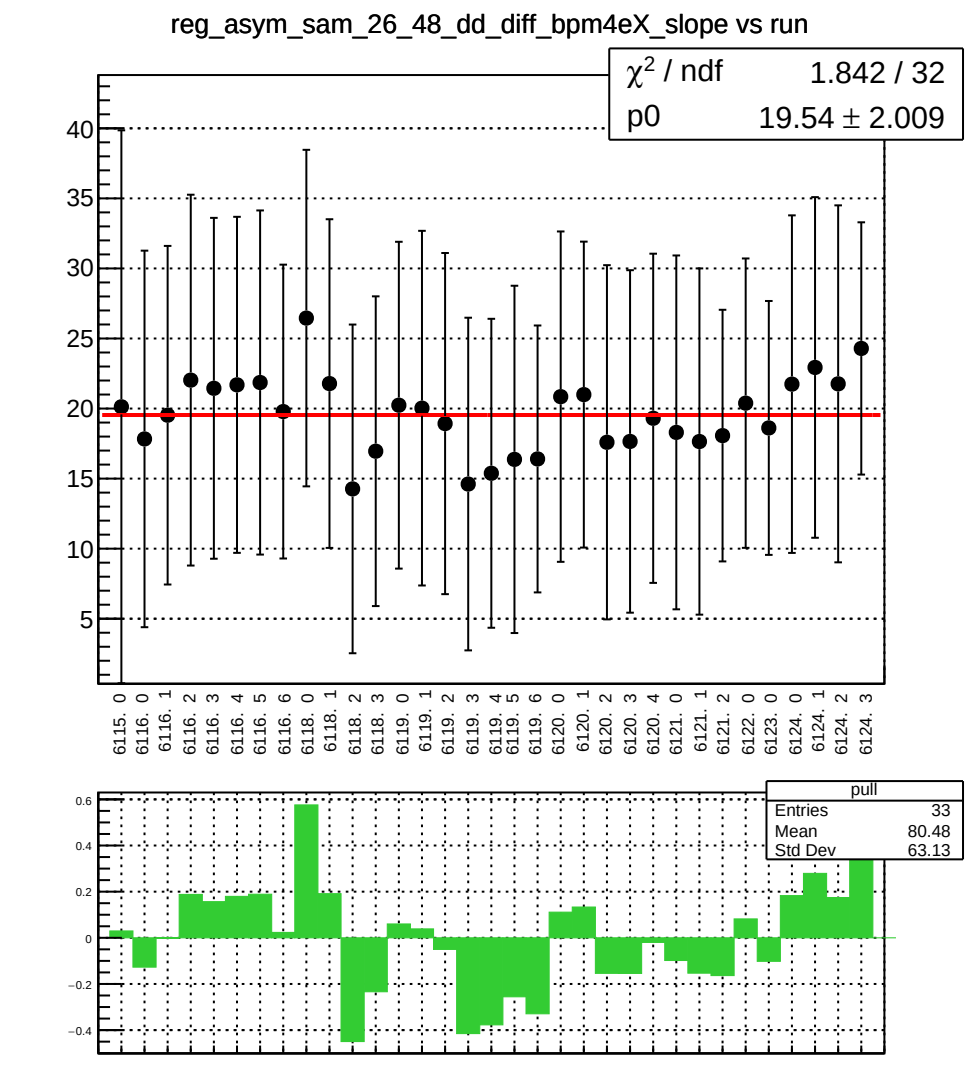

pull1D
Entries 33
Mean −0.0001775
Std Dev 0.09329
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

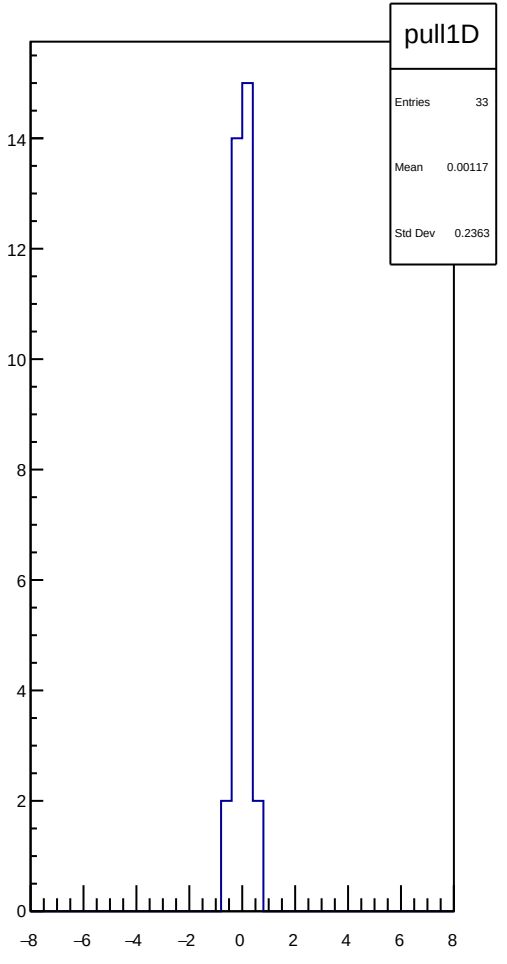

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.436 / 32
p0 0.9206 ± 1.727
pull
Entries 33
Mean 5.961
Std Dev 69.19

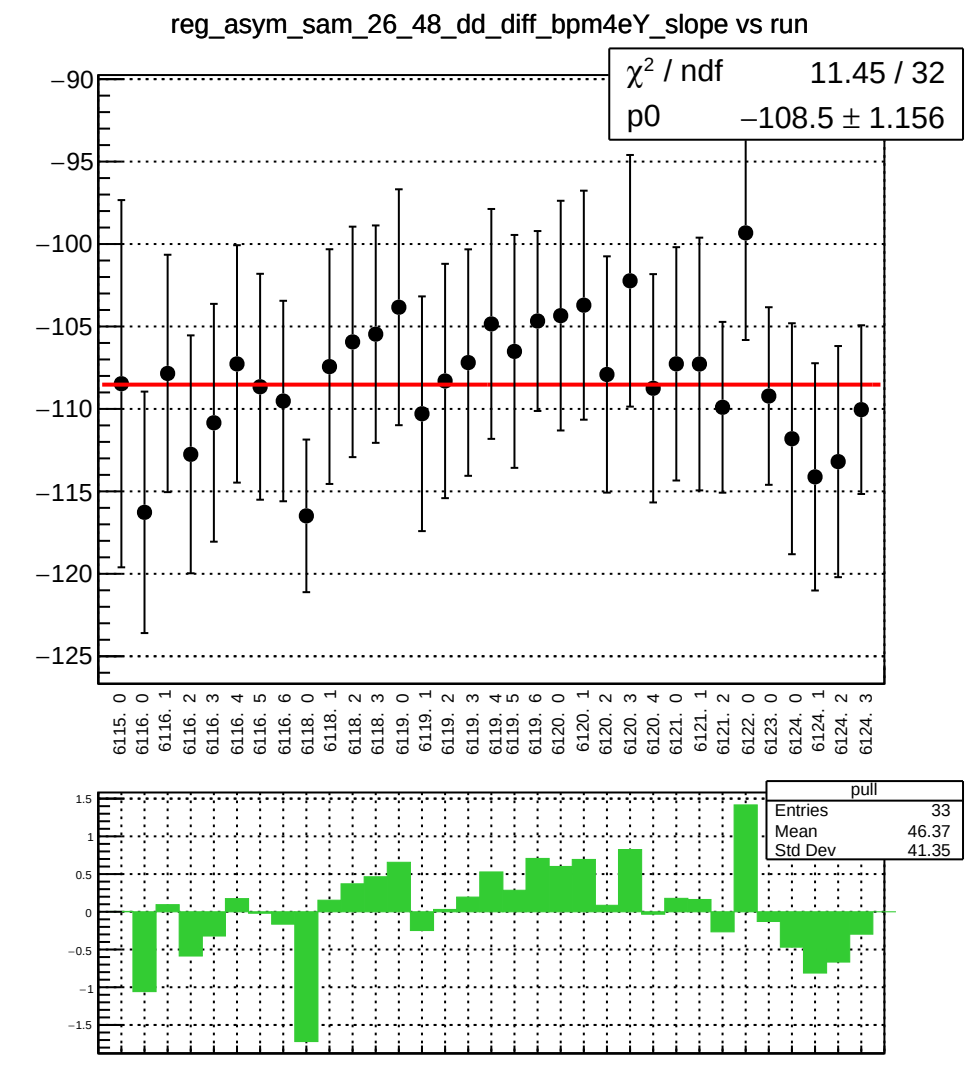

pull1D
Entries 33
Mean −0.001809
Std Dev 0.2086

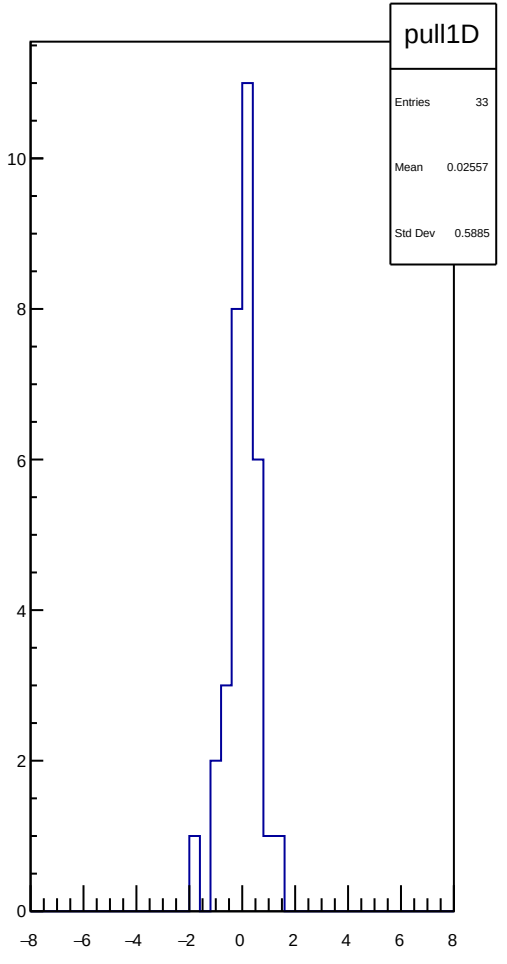

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.66 / 32
p0 12.58 ± 1.082
pull
Entries 33
Mean 44.12
Std Dev 31.35

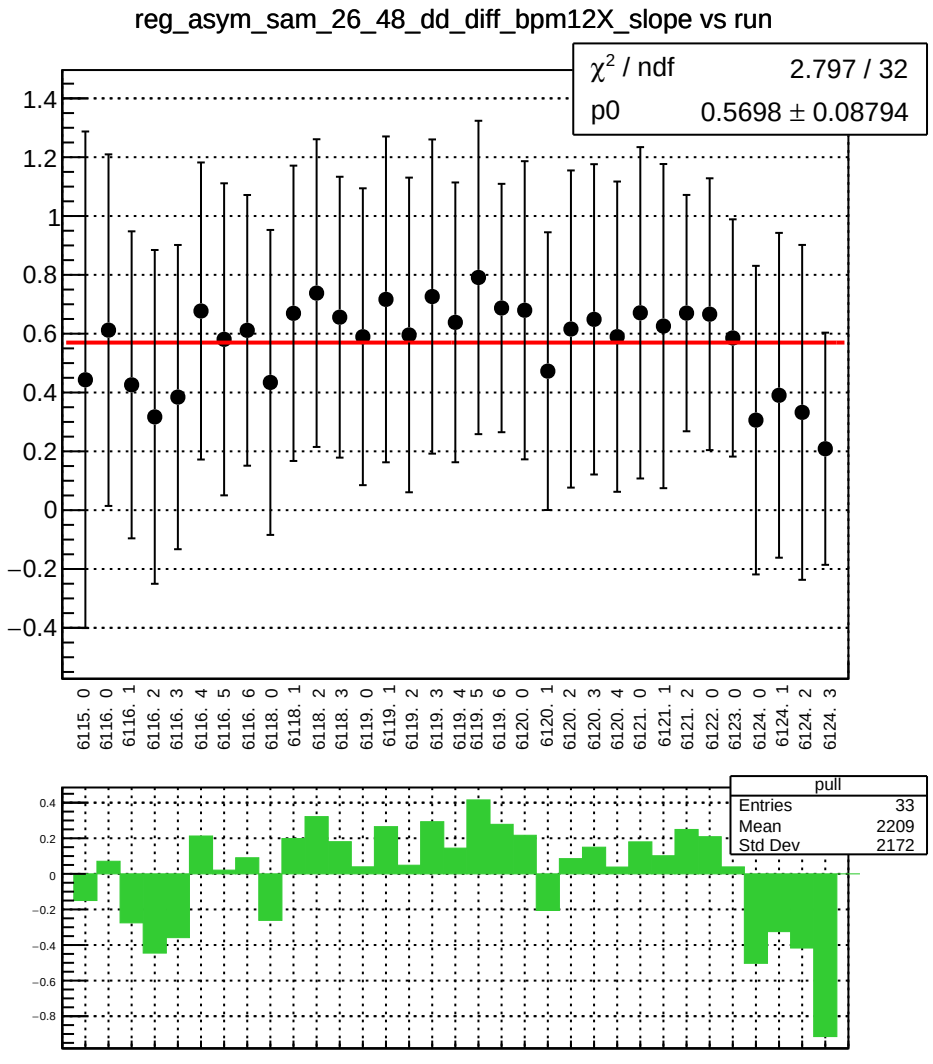

pull1D
Entries 33
Mean −0.05304
Std Dev 0.6868

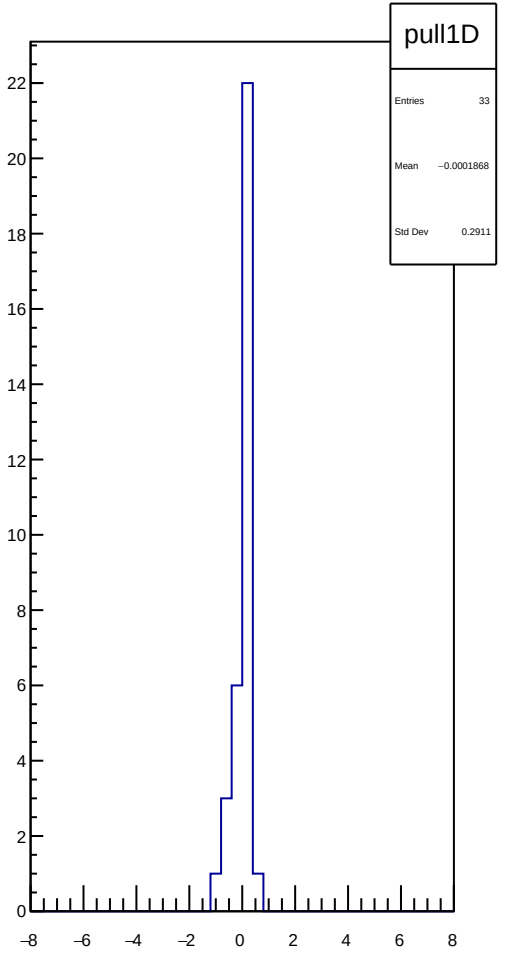

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.842 / 32
p0 19.54 ± 2.009
40
35
30
25
20
15
10
5
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 80.48
Std Dev 63.13
0.6
0.4
0.2
0
−0.2
−0.4

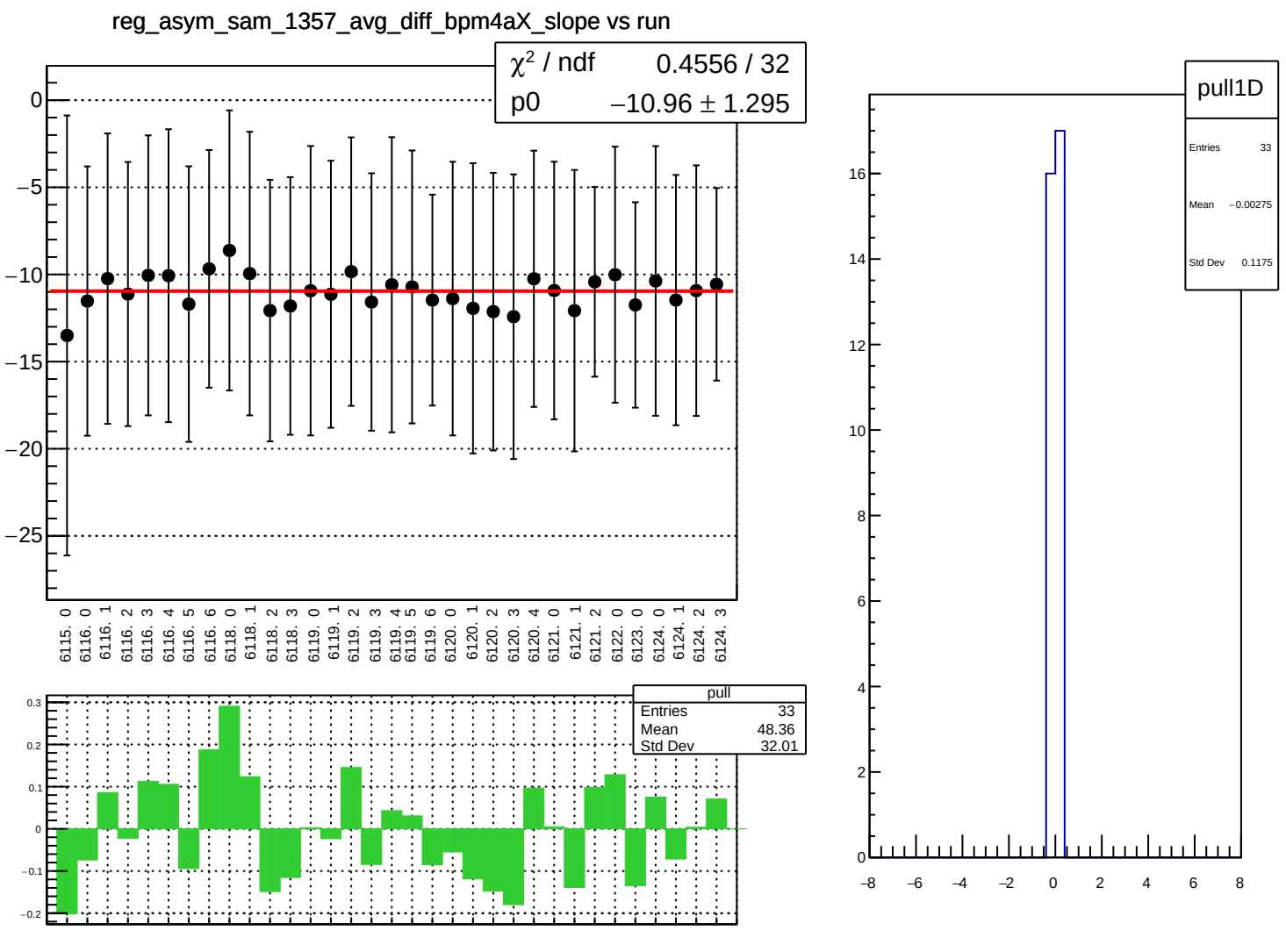

pull1D
Entries 33
Mean 0.00117
Std Dev 0.2363
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

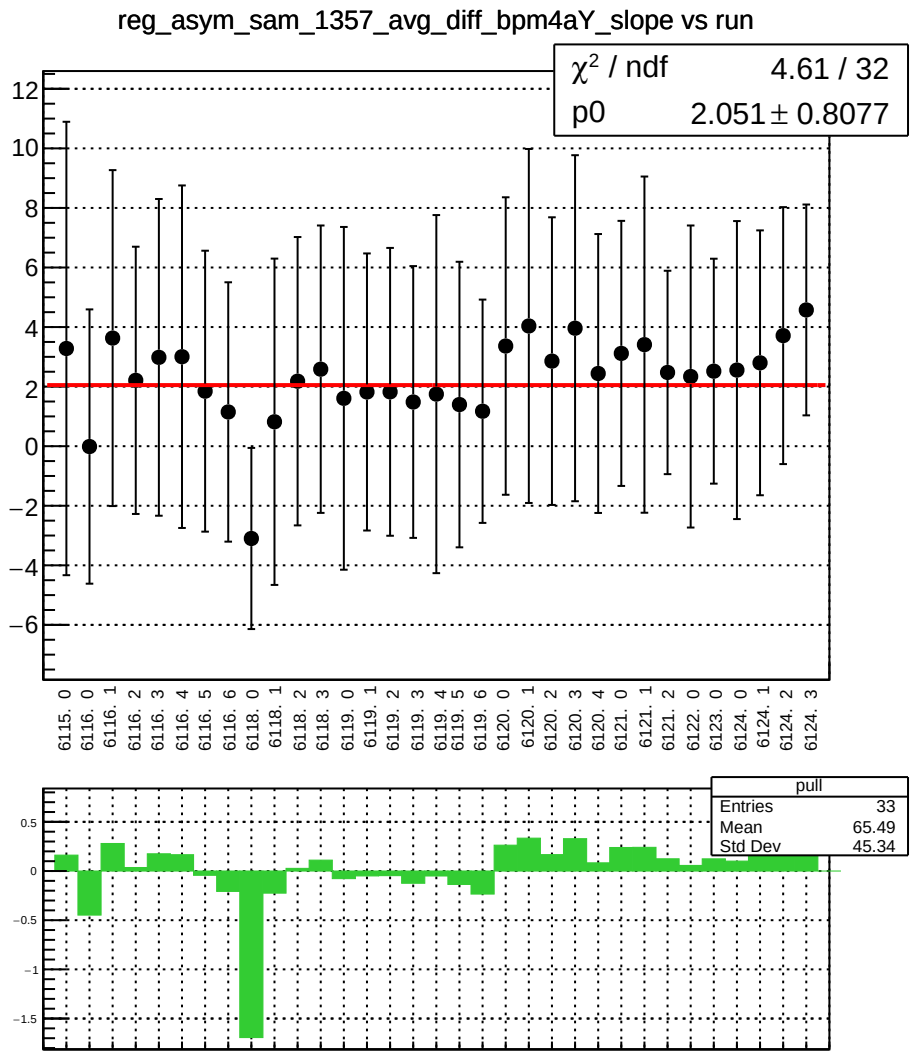

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.45 / 32
p0 −108.5 ± 1.156
−90
−95
−100
−105
−110
−115
−120
−125
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 46.37
Std Dev 41.35
1.5
1
0.5
0
−0.5
−1
−1.5

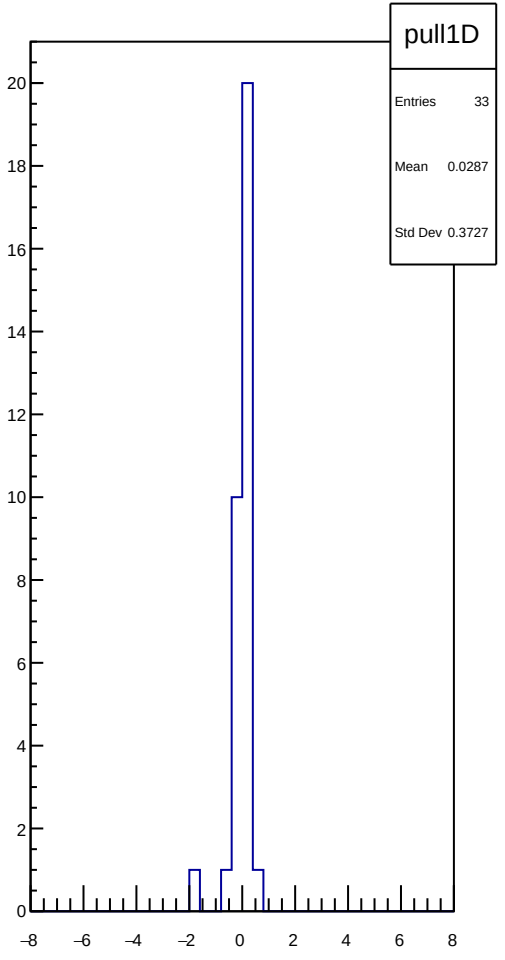

pull1D
Entries 33
Mean 0.02557
Std Dev 0.5885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

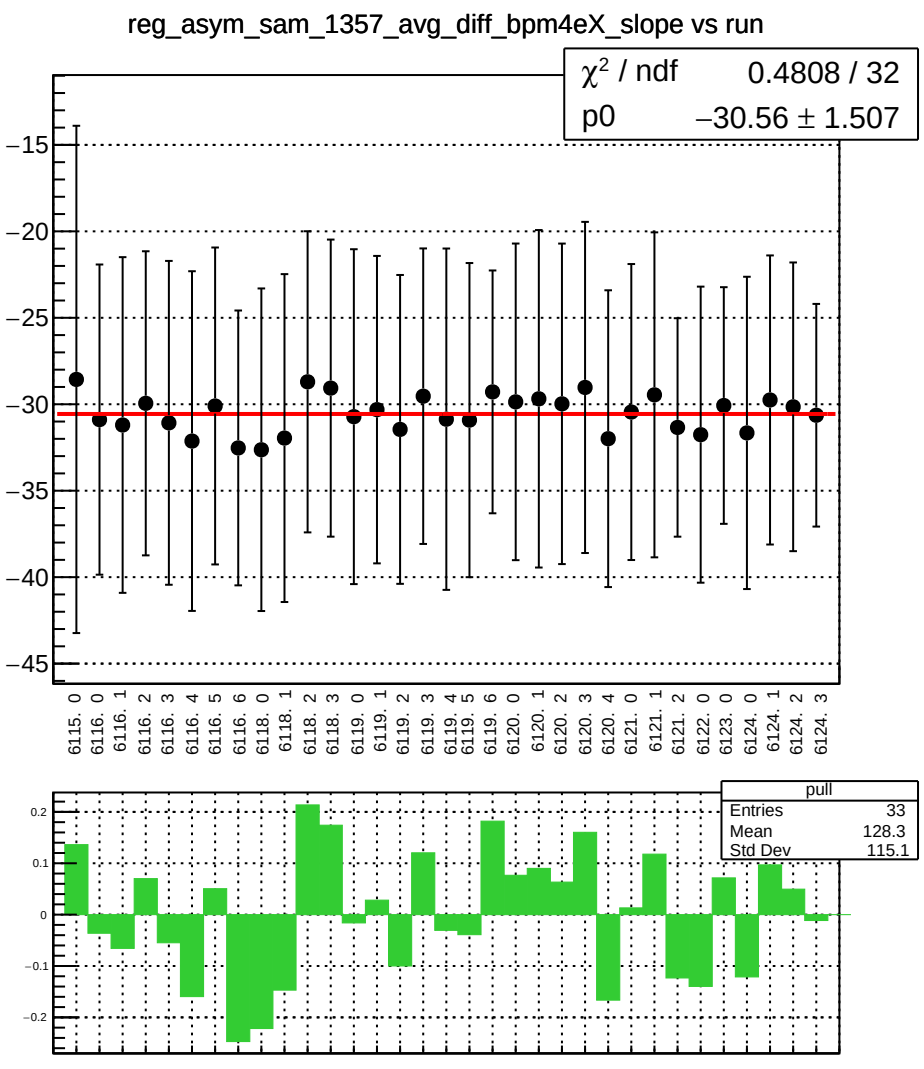

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.797 / 32
p0 0.5698 ± 0.08794
pull
Entries 33
Mean 2209
Std Dev 2172

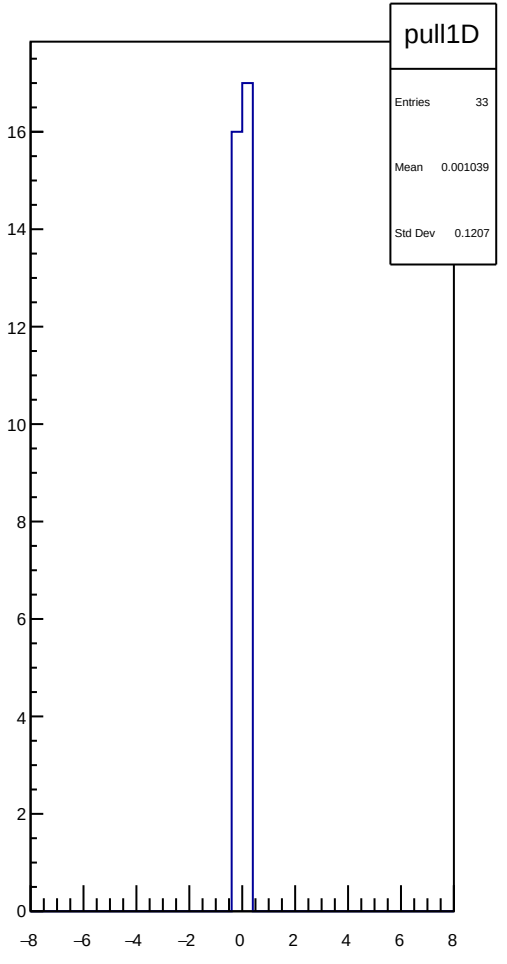

pull1D
Entries 33
Mean −0.0001868
Std Dev 0.2911

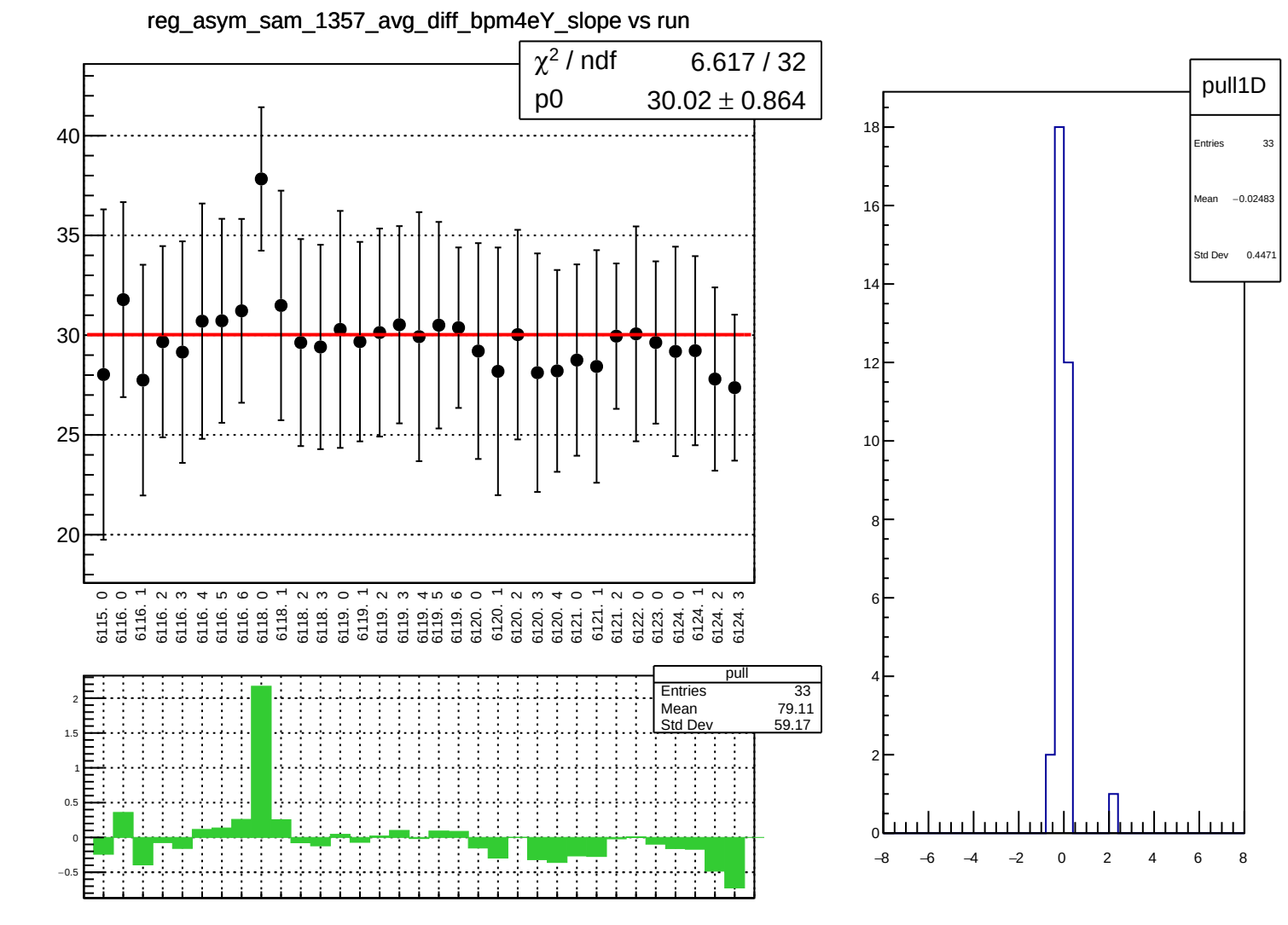

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.4556 / 32
p0 −10.96 ± 1.295
0
−5
−10
−15
−20
−25
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 48.36
Std Dev 32.01
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean −0.00275
Std Dev 0.1175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

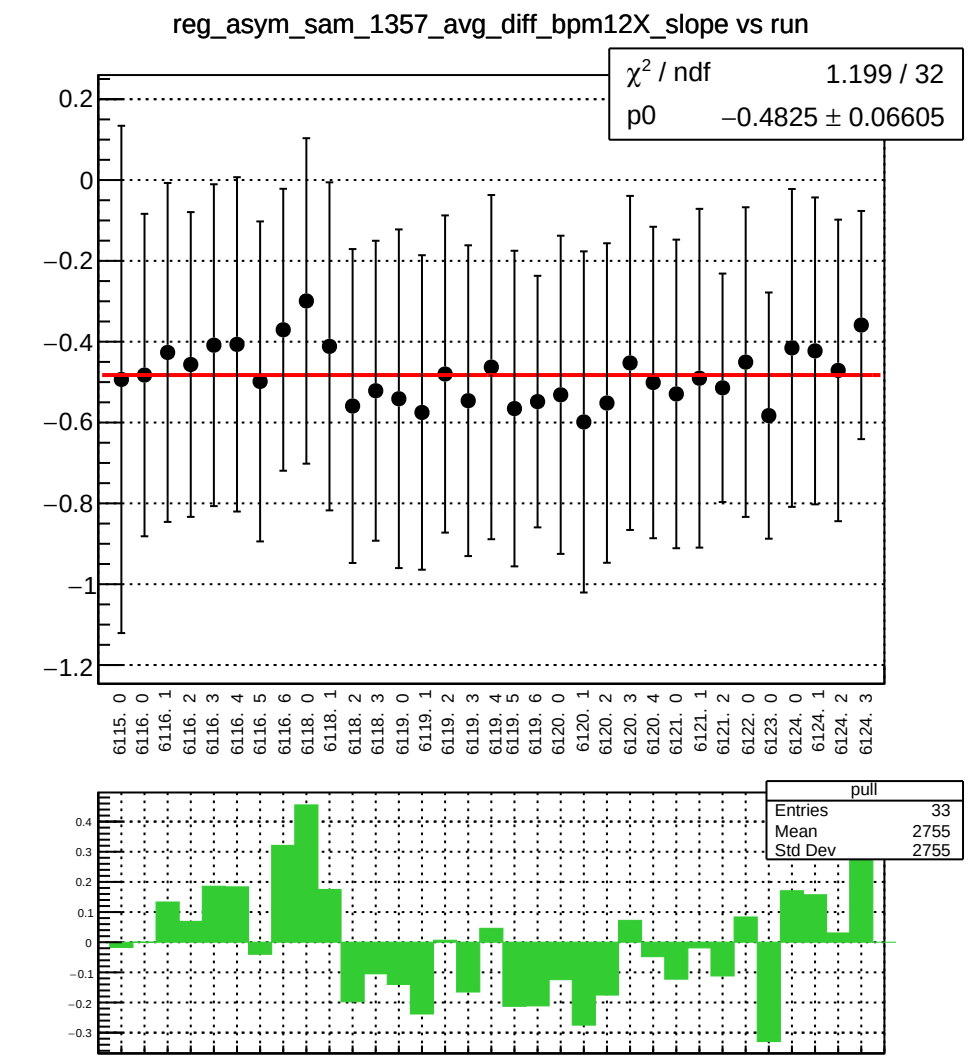

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.61 / 32
p0 2.051 ± 0.8077
pull
Entries 33
Mean 65.49
Std Dev 45.34

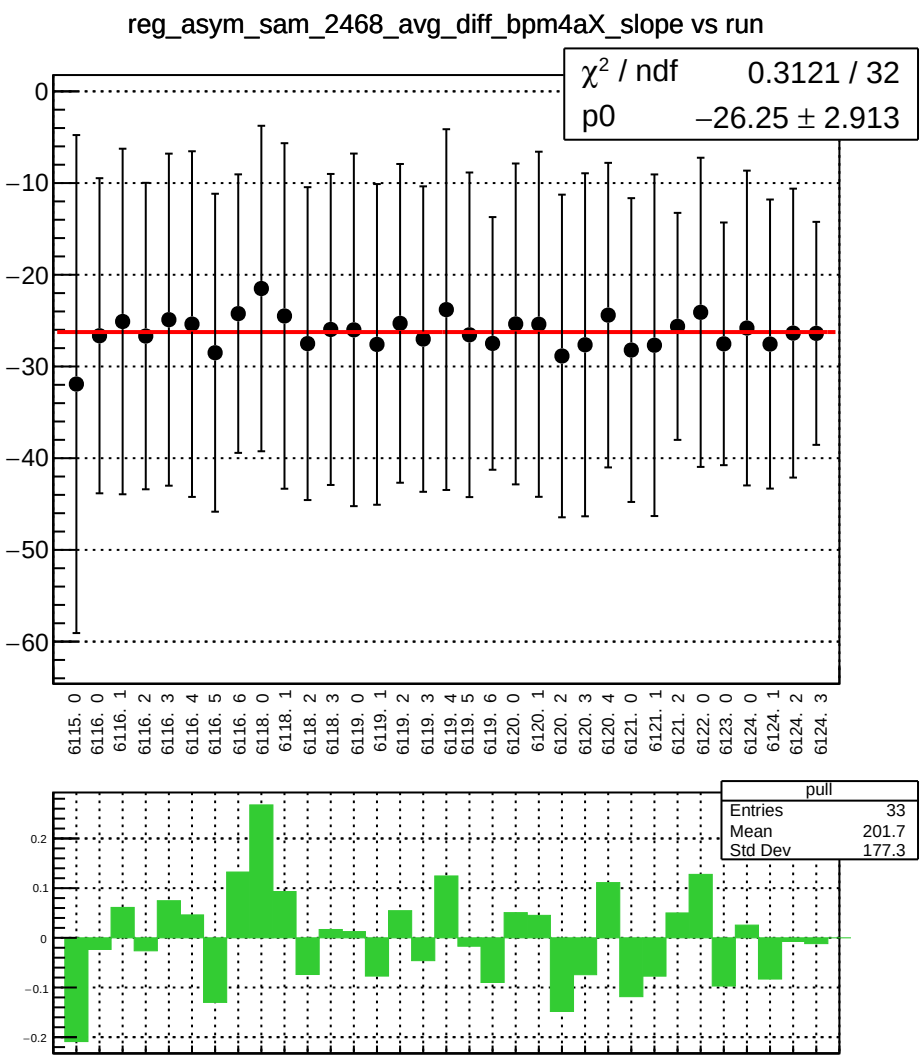

pull1D
Entries 33
Mean 0.0287
Std Dev 0.3727

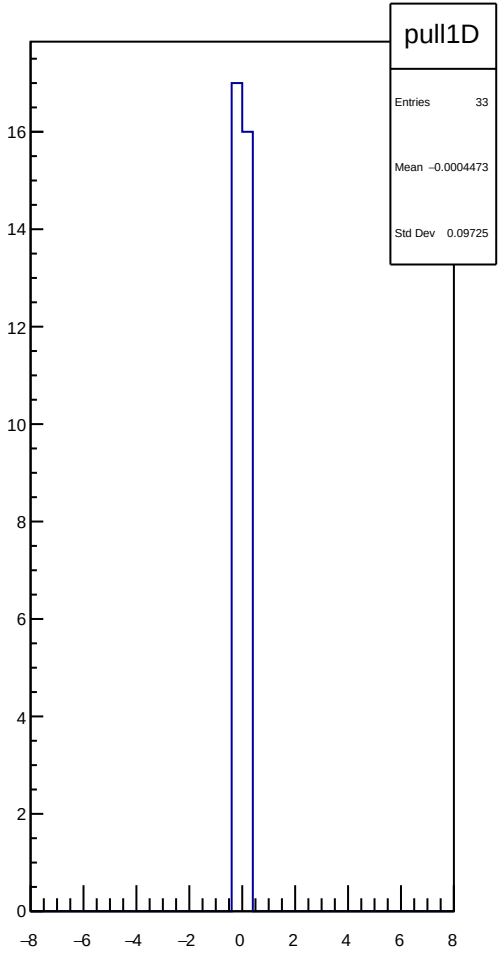

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.4808 / 32
p0 −30.56 ± 1.507
−15
−20
−25
−30
−35
−40
−45
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 128.3
Std Dev 115.1
0.2
0.1
0
−0.1
−0.2

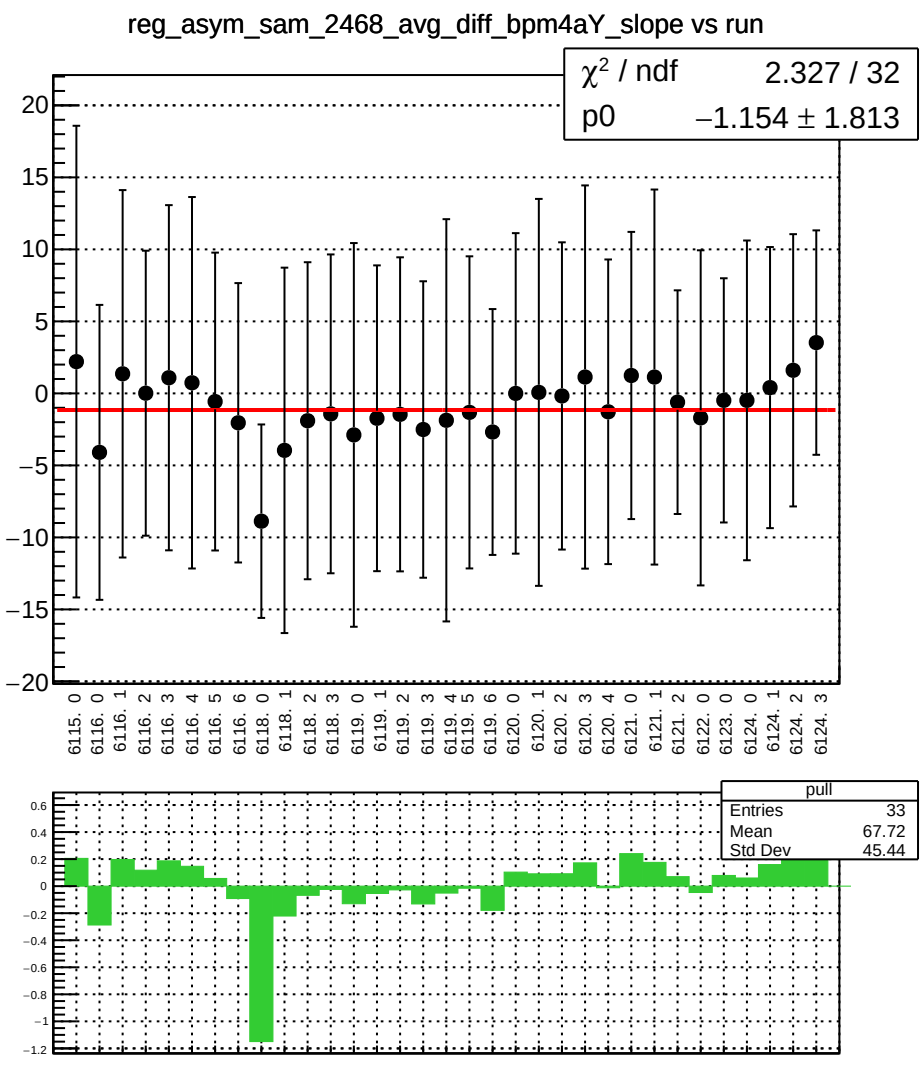

pull1D
Entries 33
Mean 0.001039
Std Dev 0.1207
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

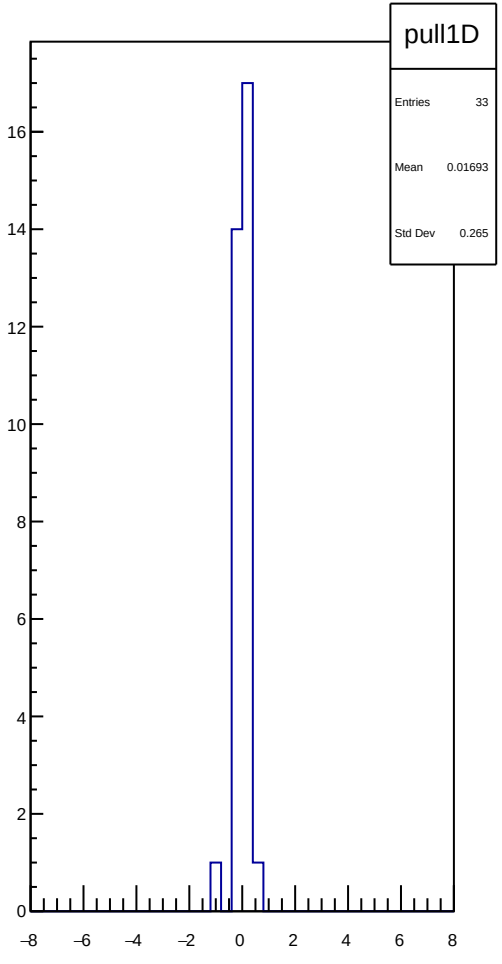

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.617 / 32
p0 30.02 ± 0.864
40
35
30
25
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 79.11
Std Dev 59.17
2
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.02483
Std Dev 0.4471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

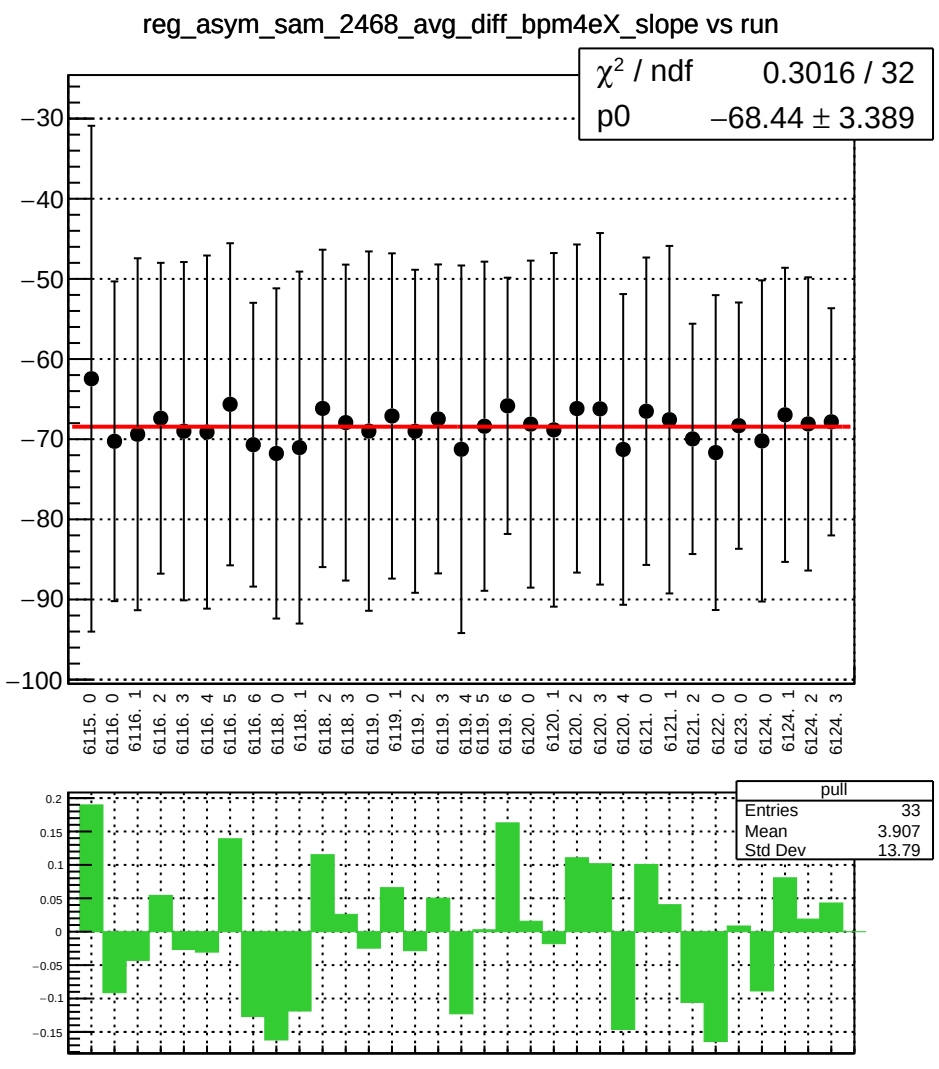

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.199 / 32
p0 −0.4825 ± 0.06605
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 2755
Std Dev 2755
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 33
Mean −8.021e−05
Std Dev 0.1906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

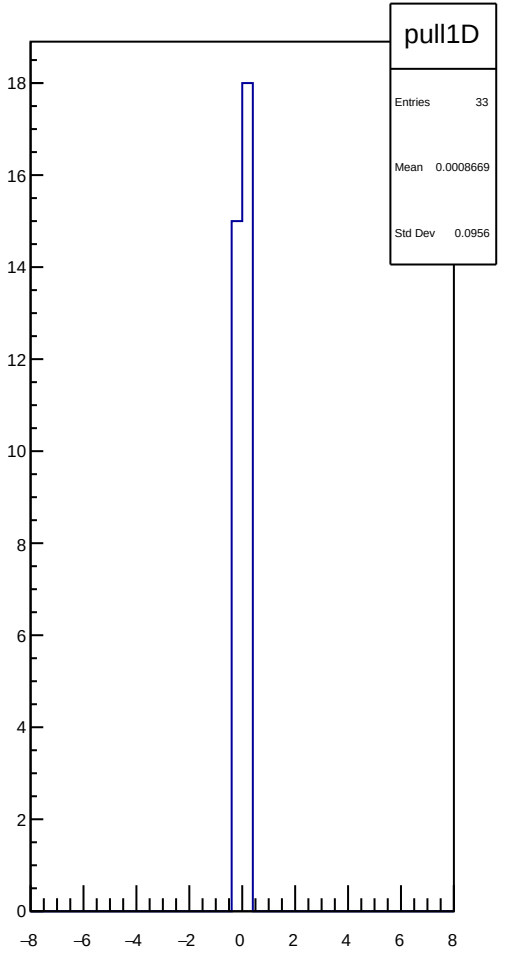

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.3121 / 32
p0 −26.25 ± 2.913
0
−10
−20
−30
−40
−50
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 201.7
Std Dev 177.3
0.2
0.1
0
−0.1
−0.2

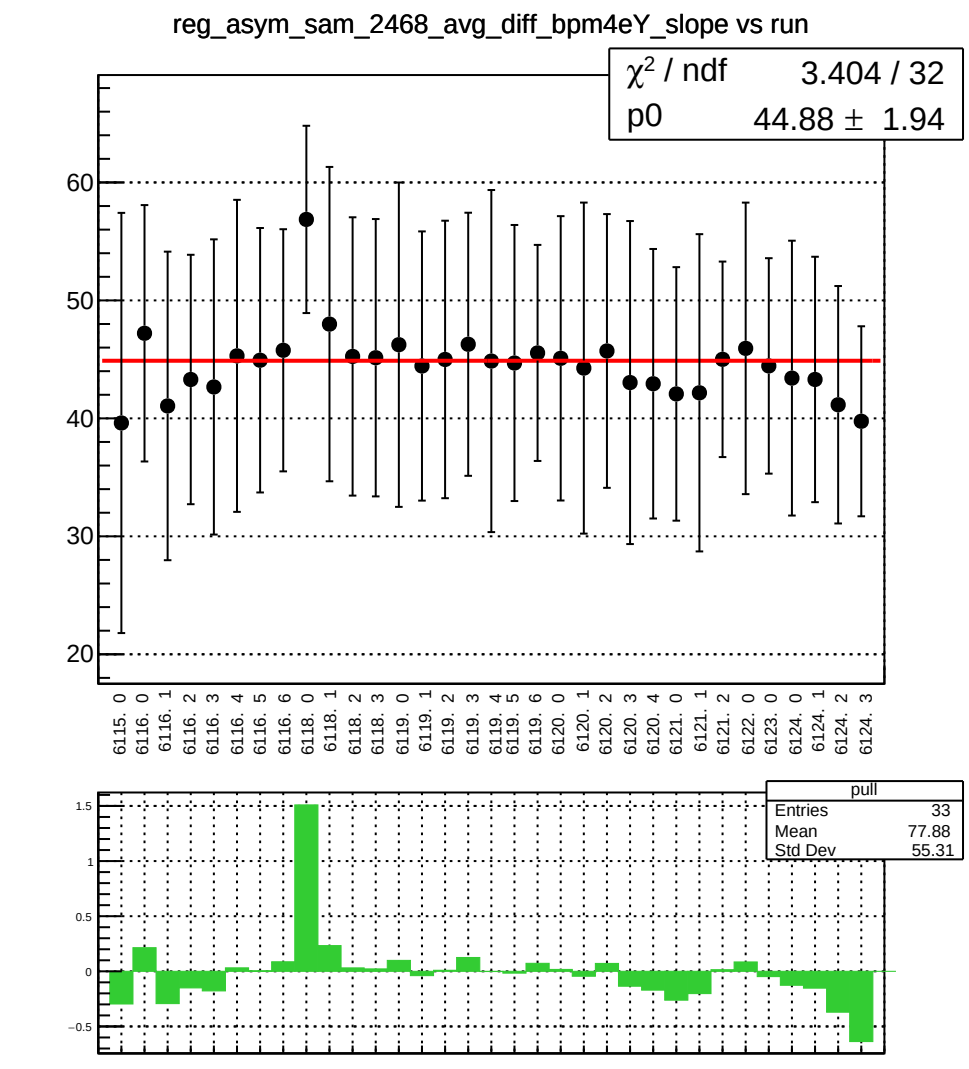

pull1D
Entries 33
Mean −0.0004473
Std Dev 0.09725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

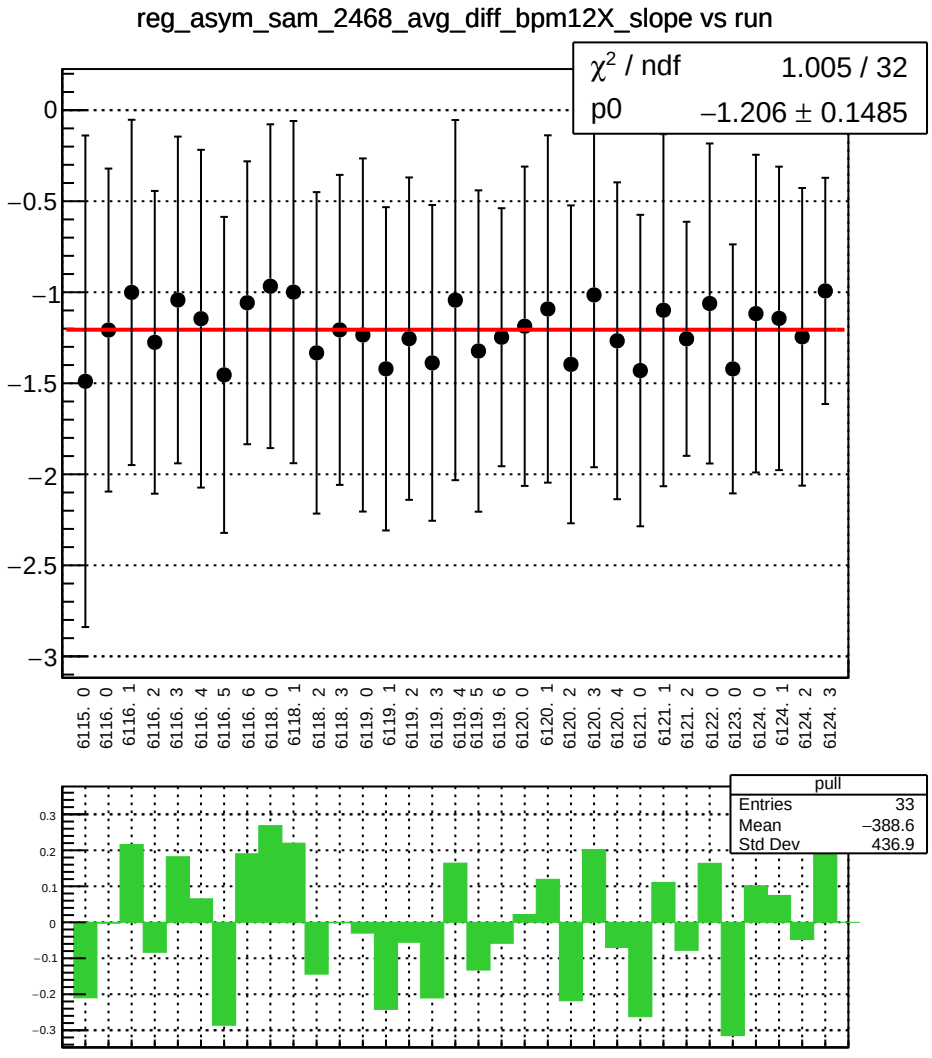

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.327 / 32
p0 −1.154 ± 1.813
pull
Entries 33
Mean 67.72
Std Dev 45.44

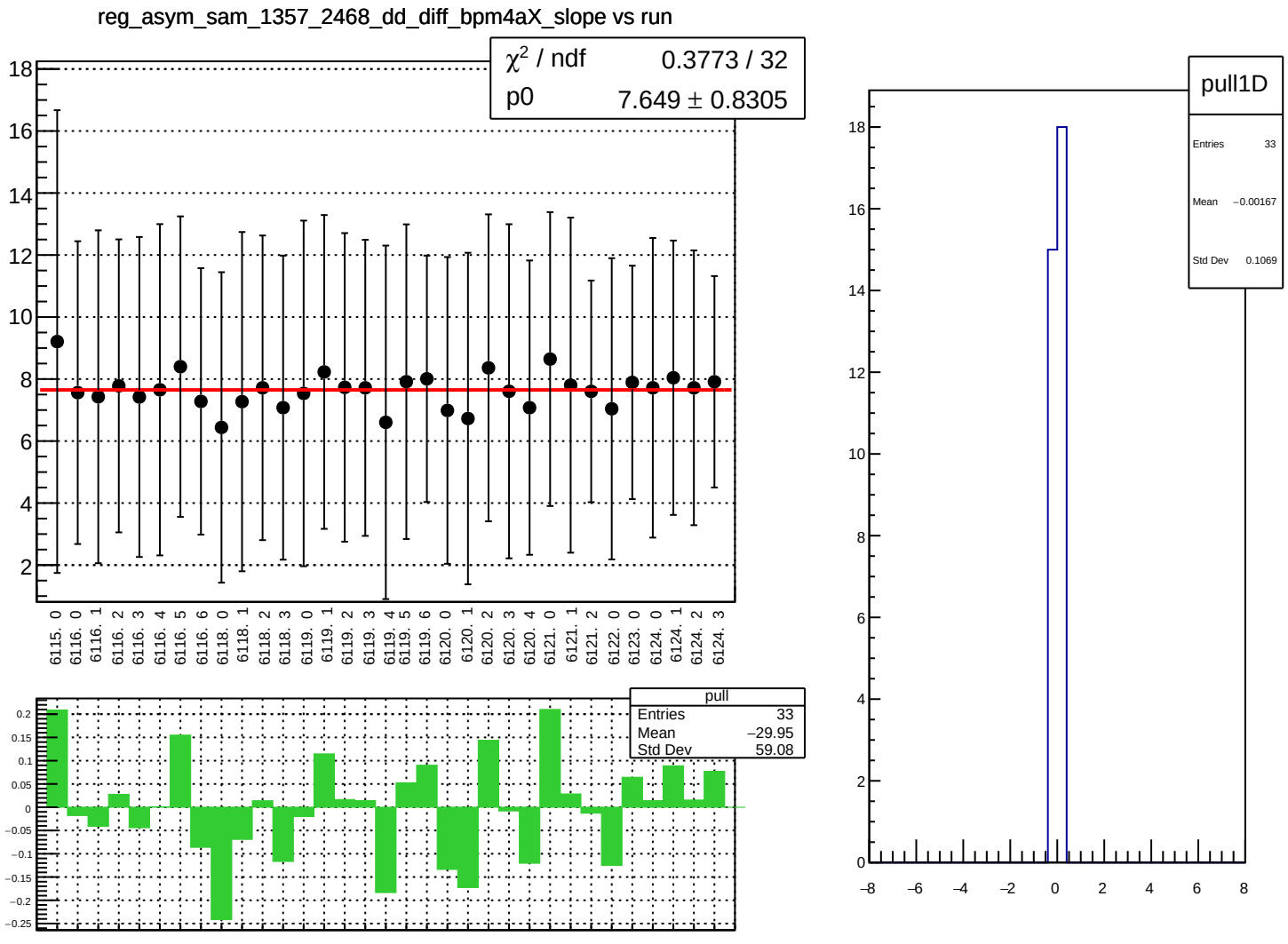

pull1D
Entries 33
Mean 0.01693
Std Dev 0.265

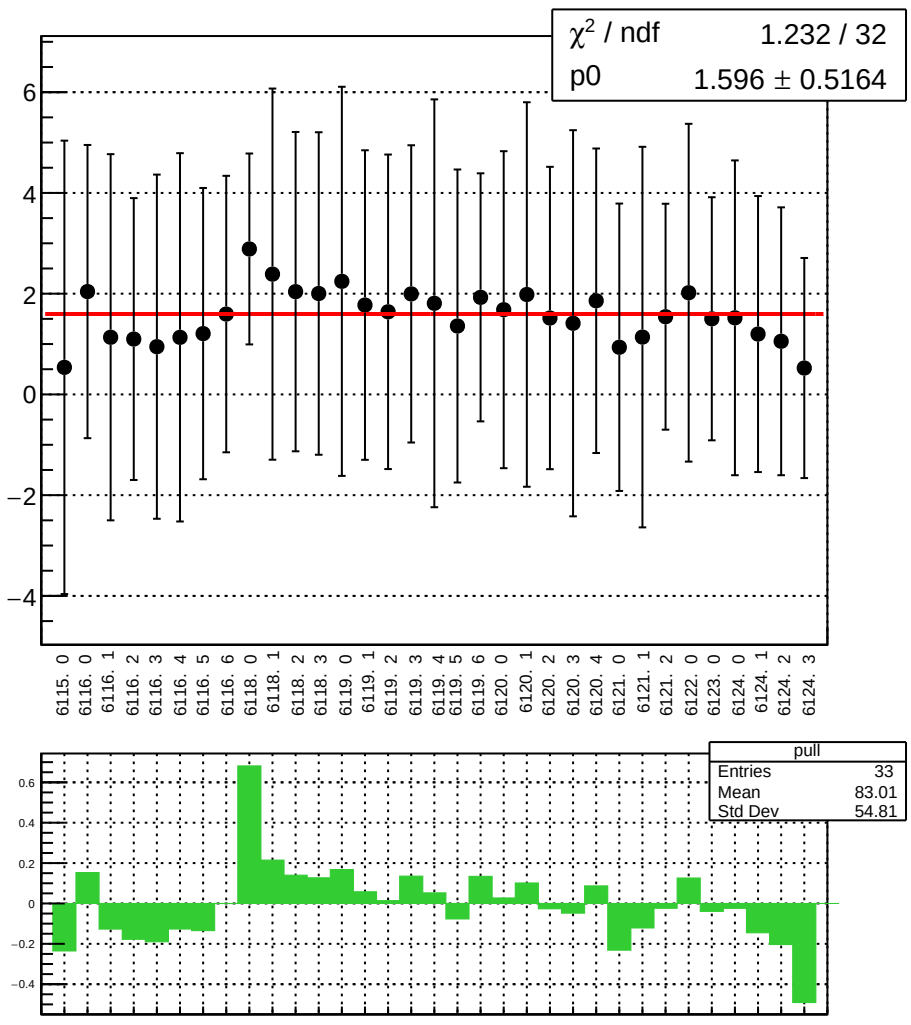

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3016 / 32
p0 −68.44 ± 3.389
−30
−40
−50
−60
−70
−80
−90
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 3.907
Std Dev 13.79
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

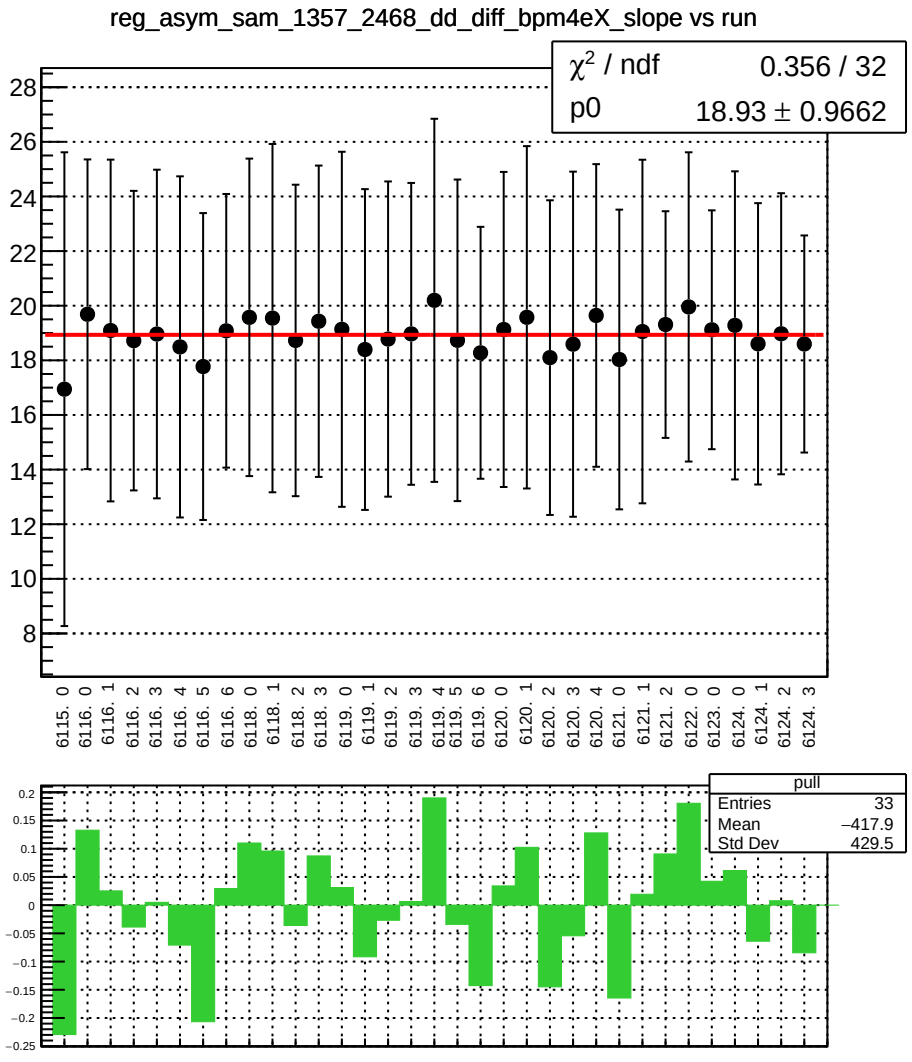

pull1D
Entries 33
Mean 0.0008669
Std Dev 0.0956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

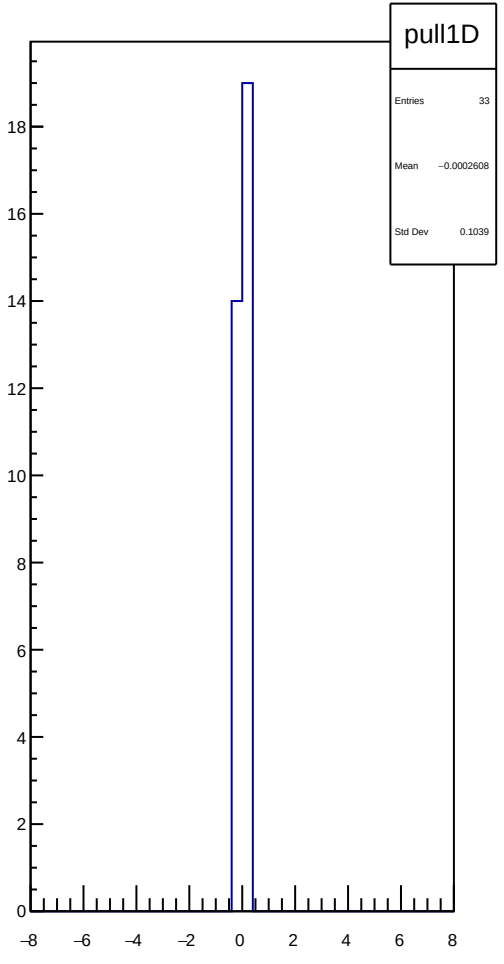

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.404 / 32
p0 44.88 ± 1.94
60
50
40
30
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 77.88
Std Dev 55.31
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.01504
Std Dev 0.3208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

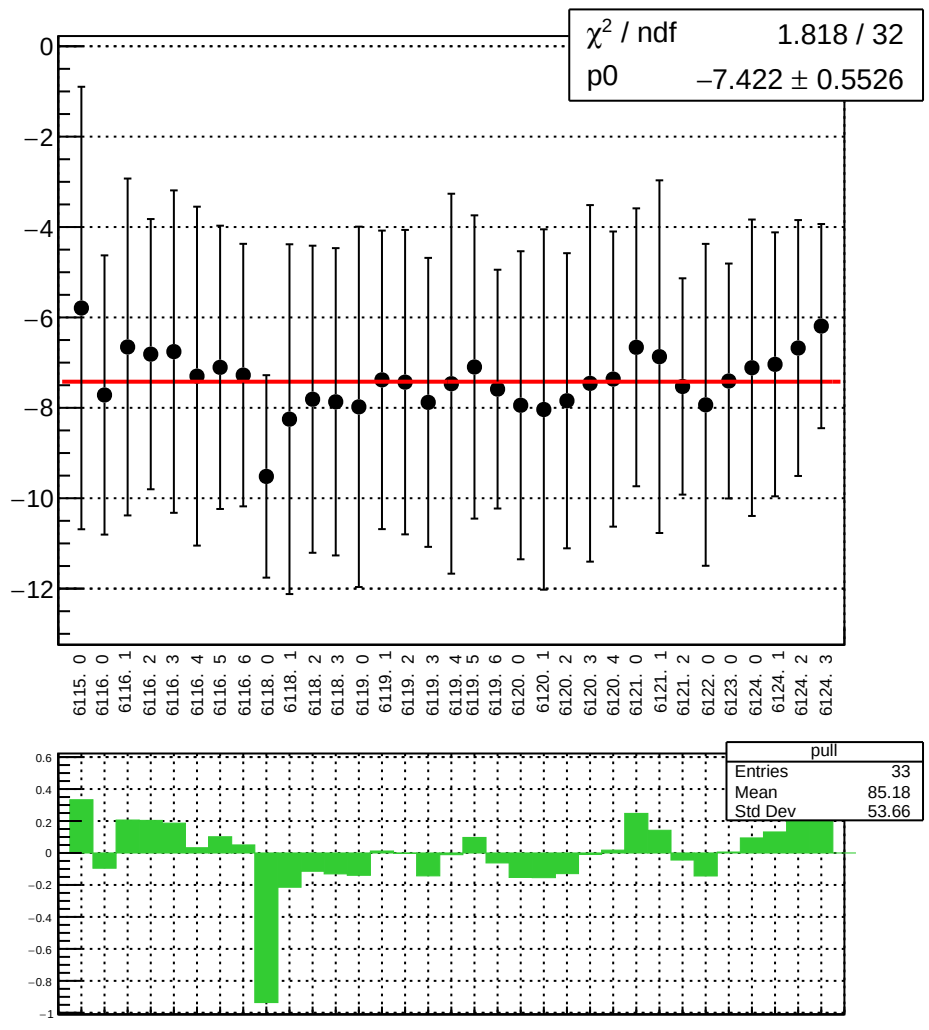

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.005 / 32
p0 −1.206 ± 0.1485
0
−0.5
−1
−1.5
−2
−2.5
−3
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −388.6
Std Dev 436.9
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 33
Mean −9.299e−05
Std Dev 0.1745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

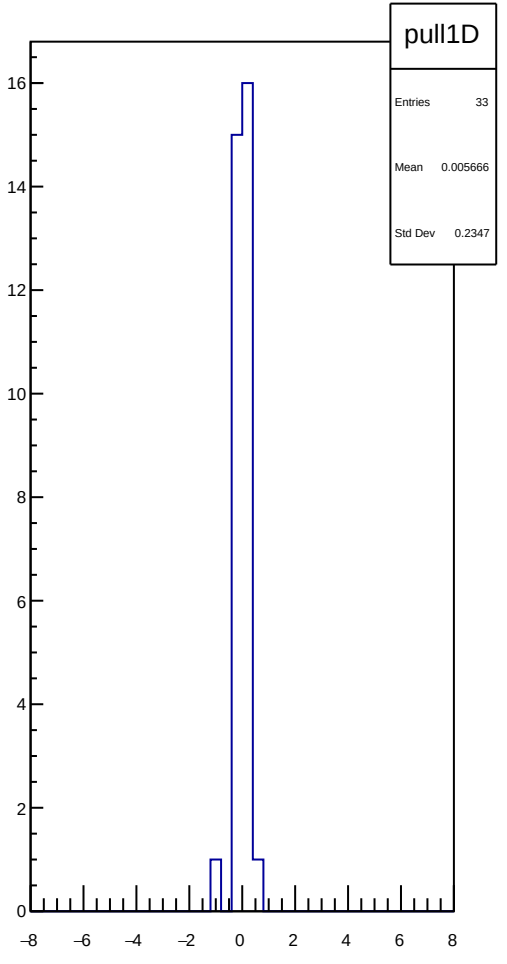

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3773 / 32
p0 7.649 ± 0.8305
18
16
14
12
10
8
6
4
2
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −29.95
Std Dev 59.08
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 33
Mean −0.00167
Std Dev 0.1069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

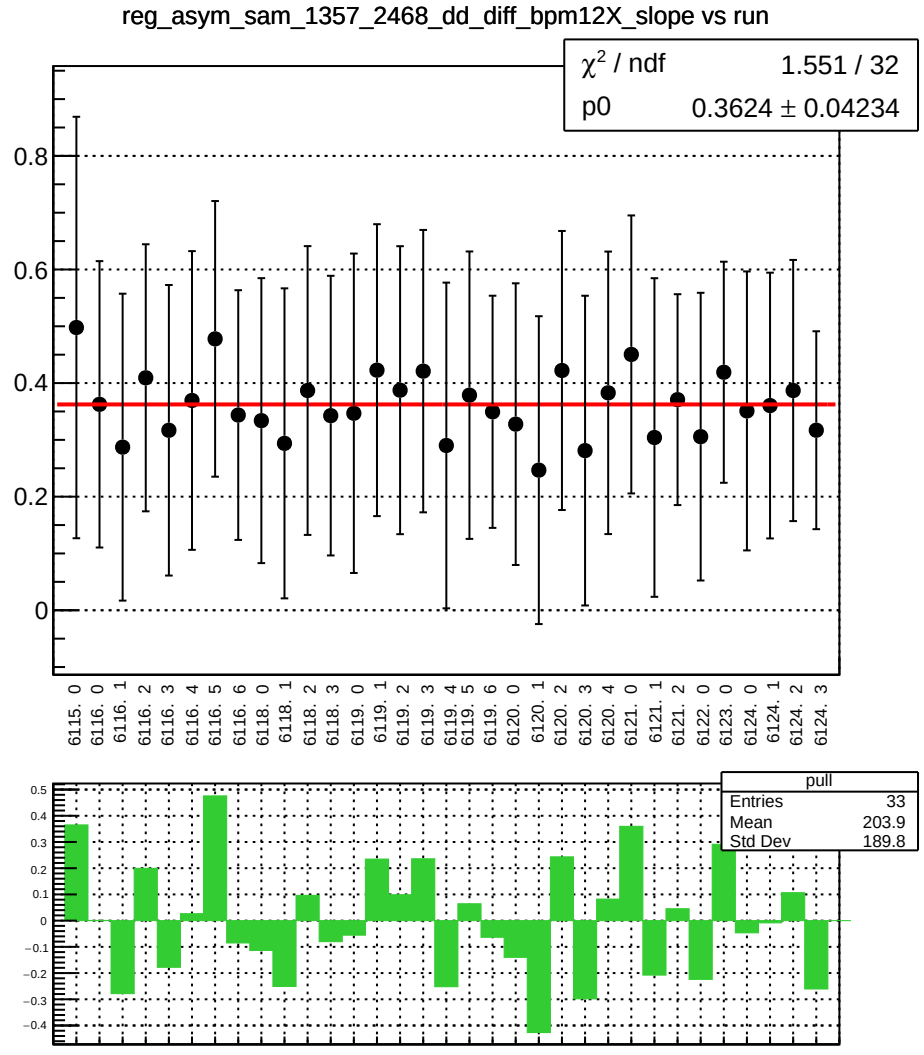

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.232 / 32
p0 1.596 ± 0.5164
6
4
2
0
−2
−4
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 83.01
Std Dev 54.81
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean −0.006159
Std Dev 0.1931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

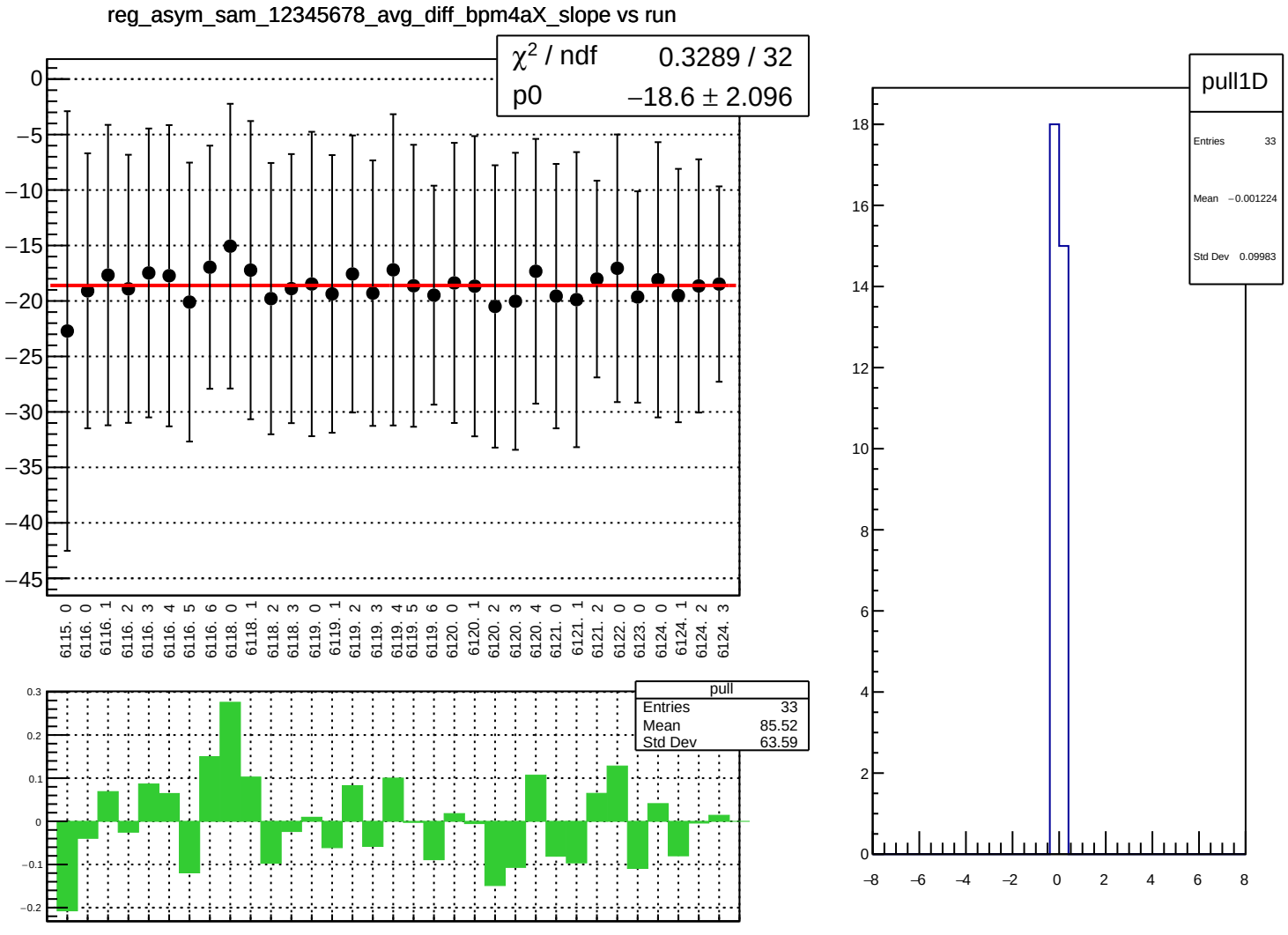

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.356 / 32
p0 18.93 ± 0.9662
pull
Entries 33
Mean −417.9
Std Dev 429.5

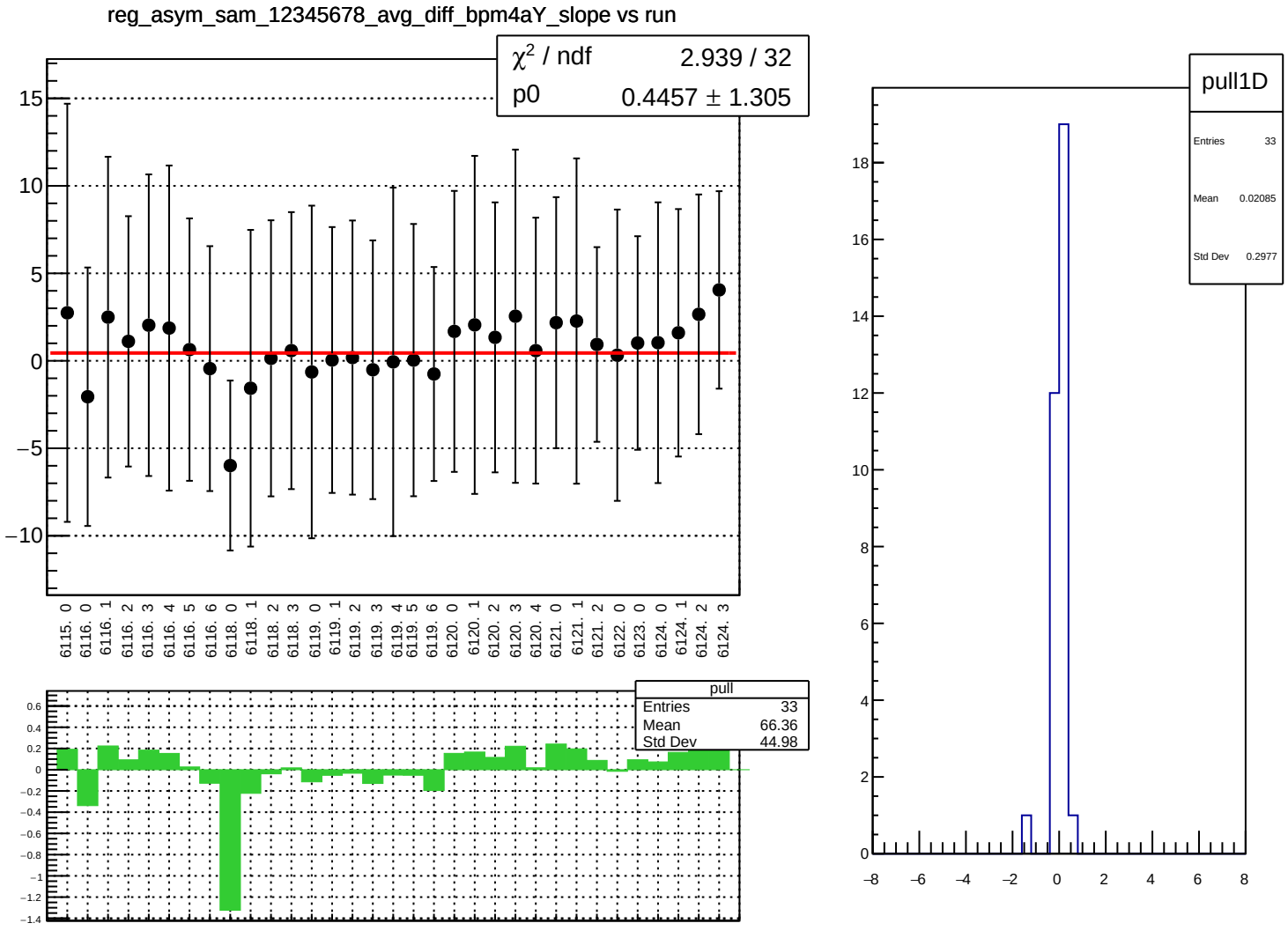

pull1D
Entries 33
Mean −0.0002608
Std Dev 0.1039

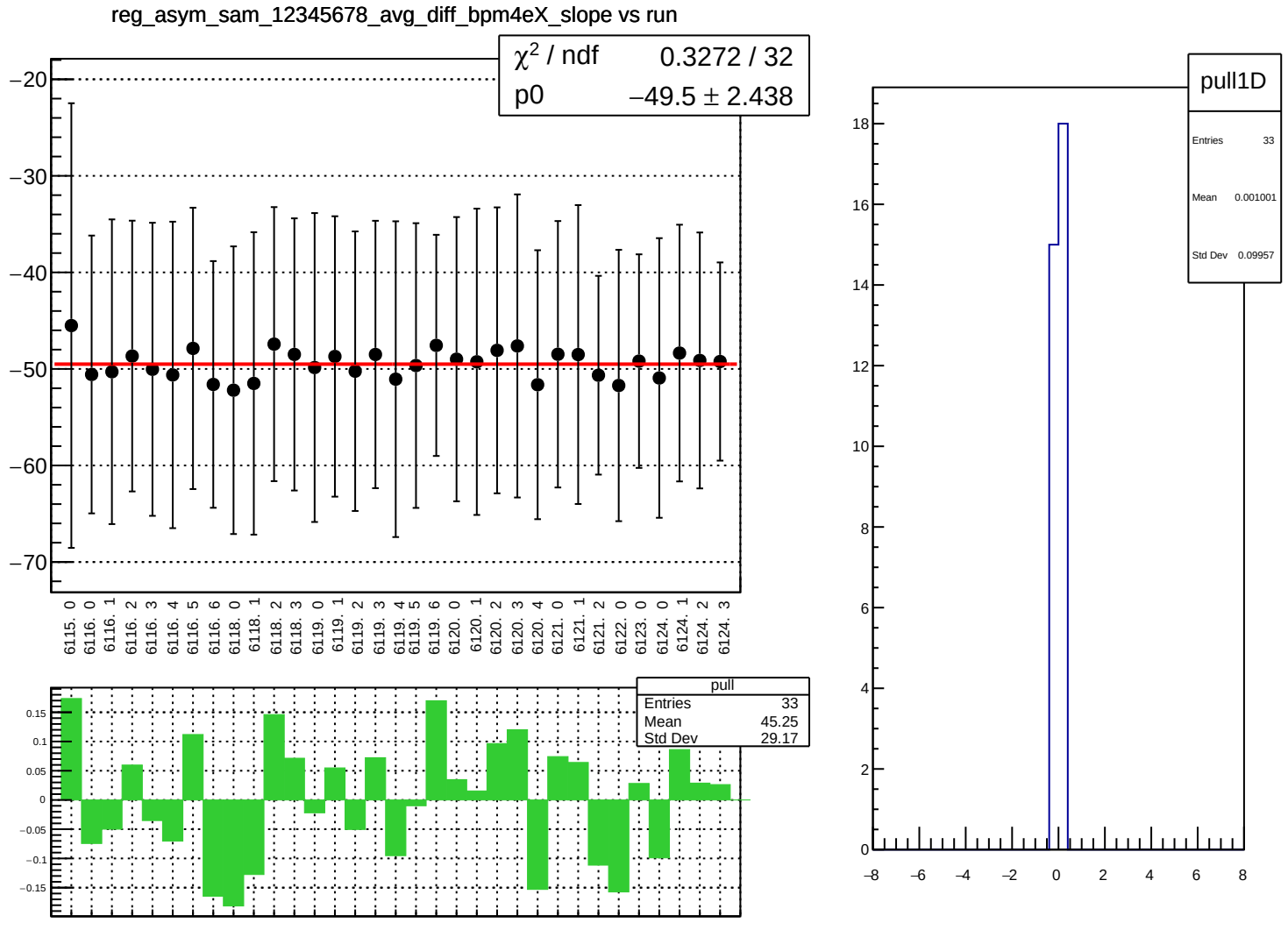

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.818 / 32
p0 −7.422 ± 0.5526
0
−2
−4
−6
−8
−10
−12
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 85.18
Std Dev 53.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

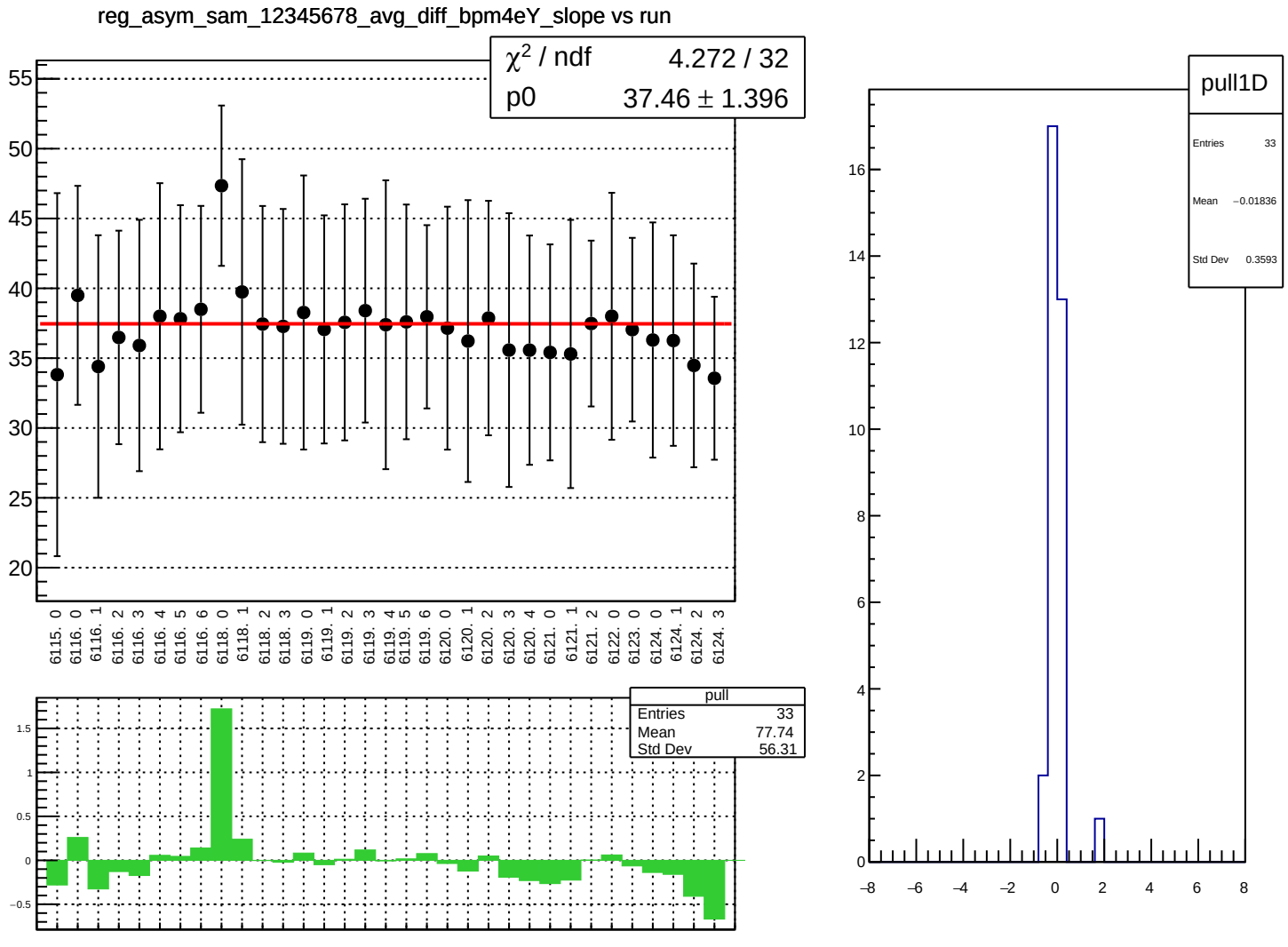

pull1D
Entries 33
Mean 0.005666
Std Dev 0.2347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

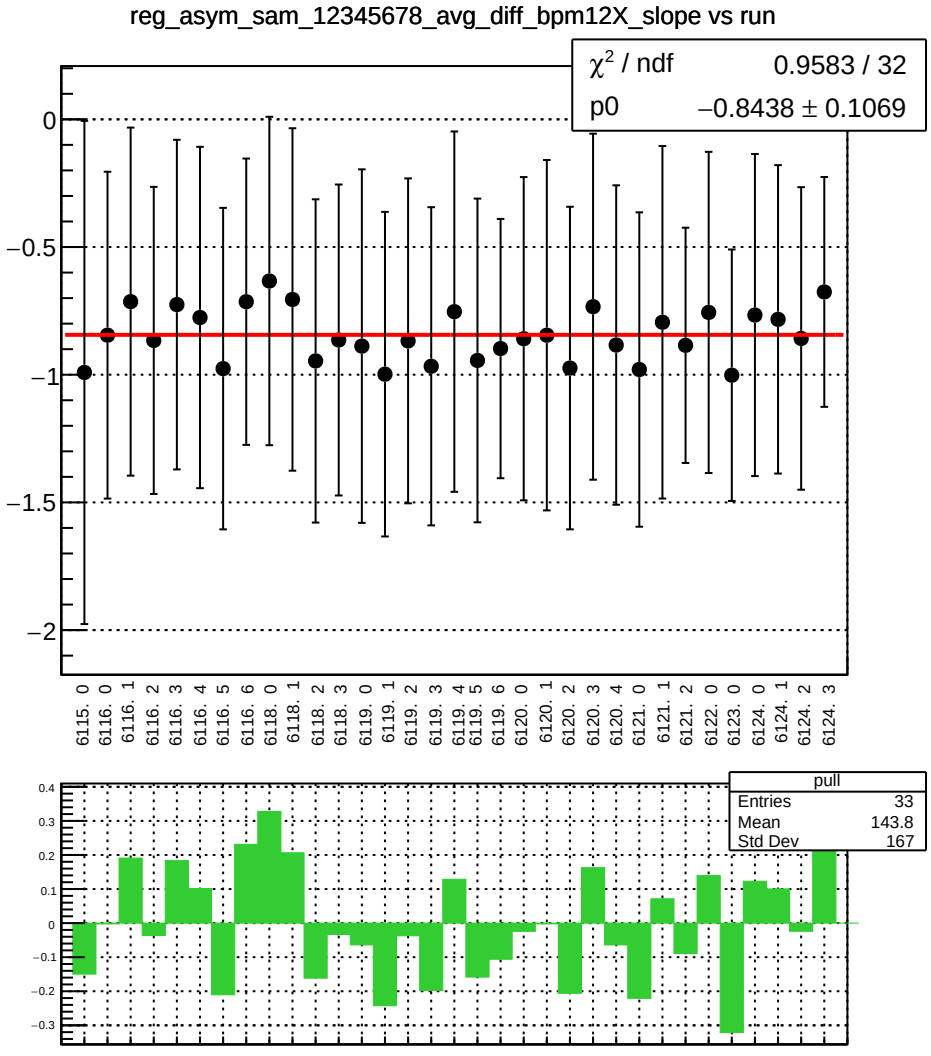

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.551 / 32
p0 0.3624 ± 0.04234
0.8
0.6
0.4
0.2
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 203.9
Std Dev 189.8
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 33
Mean −0.001312
Std Dev 0.2168
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

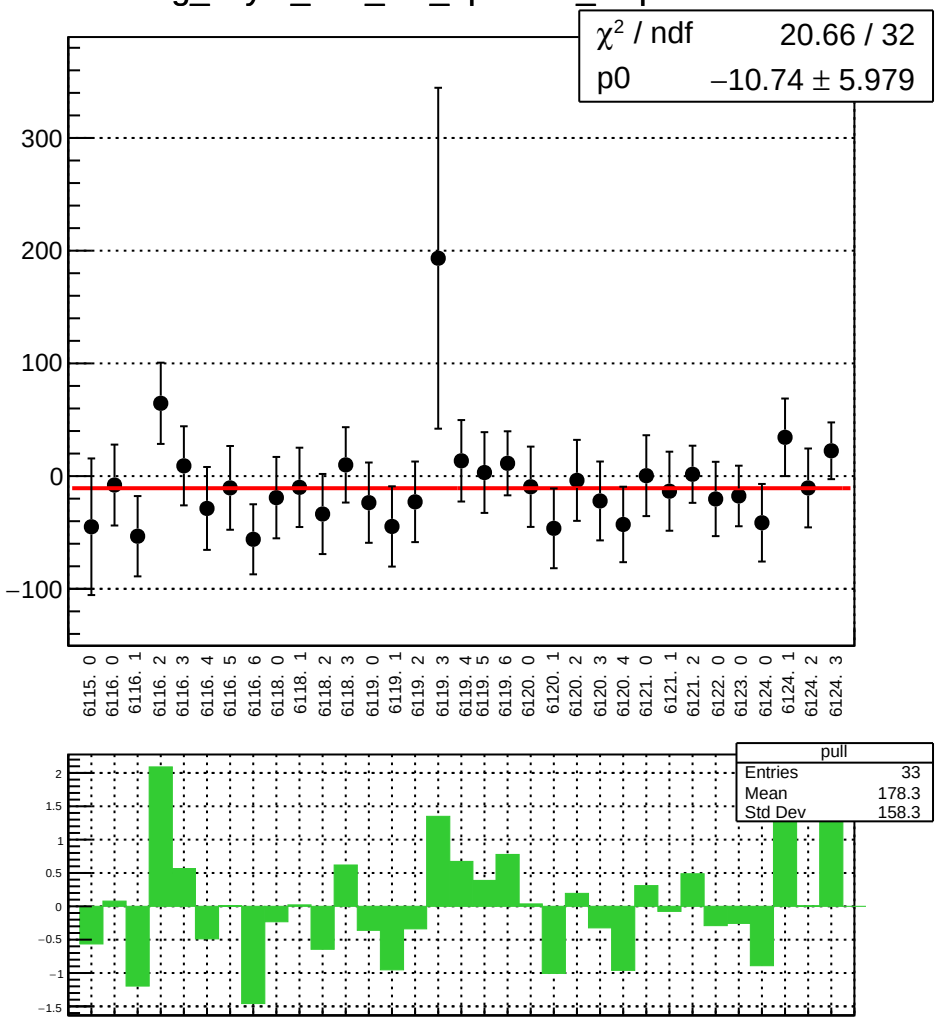

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.3289 / 32
p0 −18.6 ± 2.096
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 85.52
Std Dev 63.59
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 33
Mean −0.001224
Std Dev 0.09983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

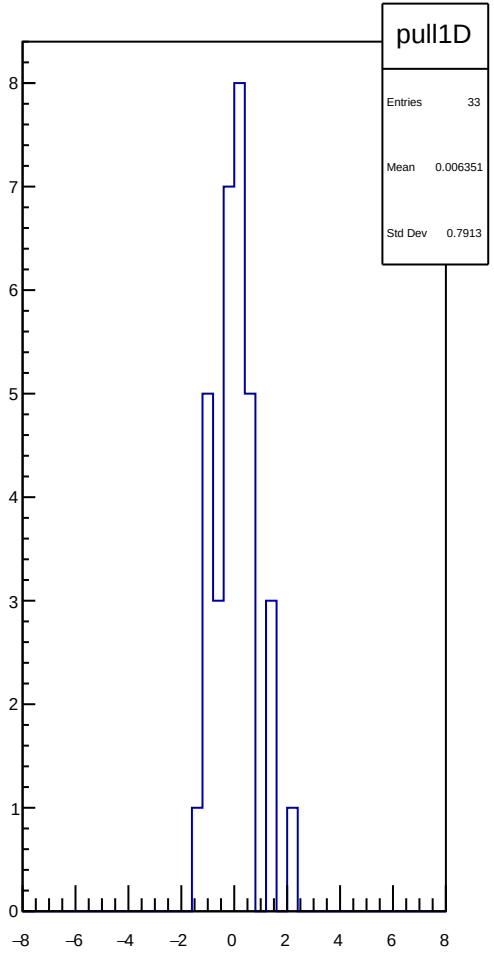

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.939 / 32
p0 0.4457 ± 1.305
15
10
5
0
−5
−10
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 66.36
Std Dev 44.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 33
Mean 0.02085
Std Dev 0.2977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

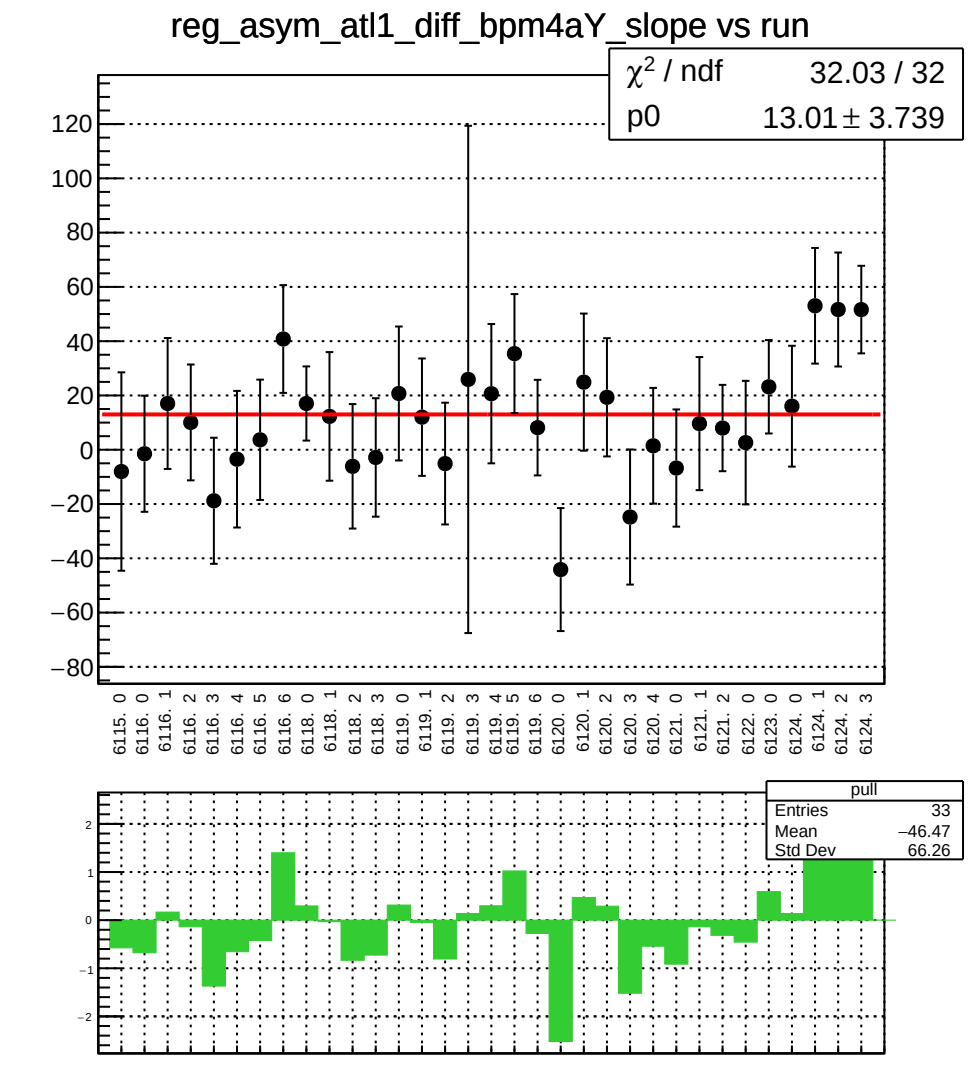

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.3272 / 32
p0 −49.5 ± 2.438
−20
−30
−40
−50
−60
−70
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 45.25
Std Dev 29.17
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 33
Mean 0.001001
Std Dev 0.09957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

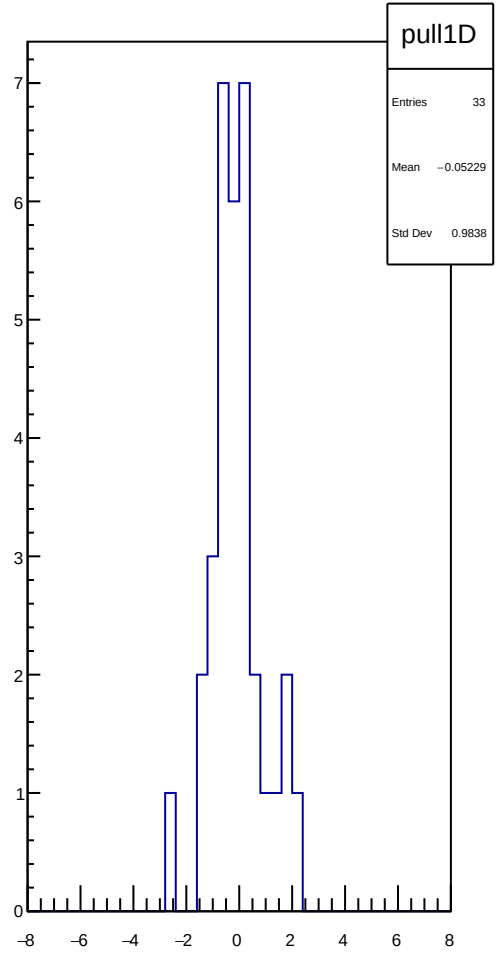

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.272 / 32
p0 37.46 ± 1.396
55
50
45
40
35
30
25
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 77.74
Std Dev 56.31
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.01836
Std Dev 0.3593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

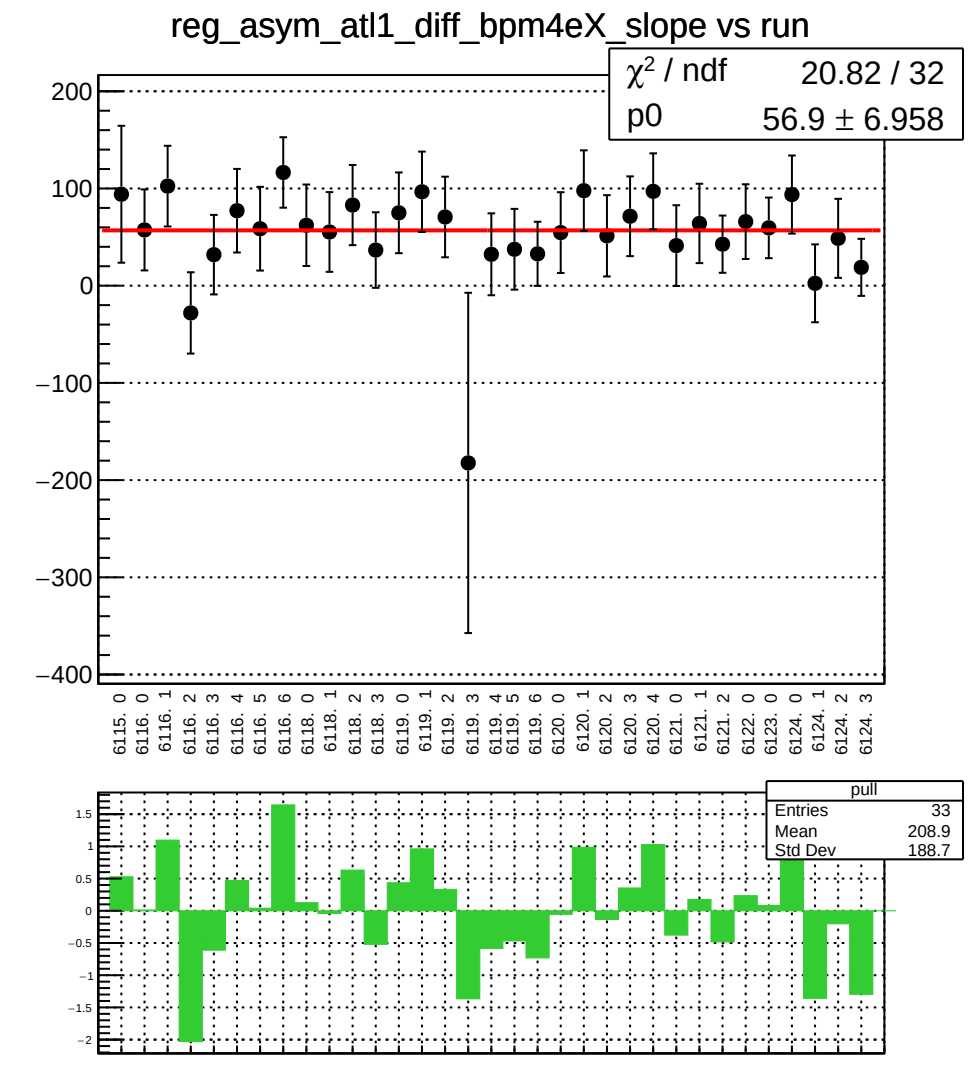

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9583 / 32
p0 −0.8438 ± 0.1069
pull
Entries 33
Mean 143.8
Std Dev 167
pull1D
Entries 33
Mean −0.0003378
Std Dev 0.1704

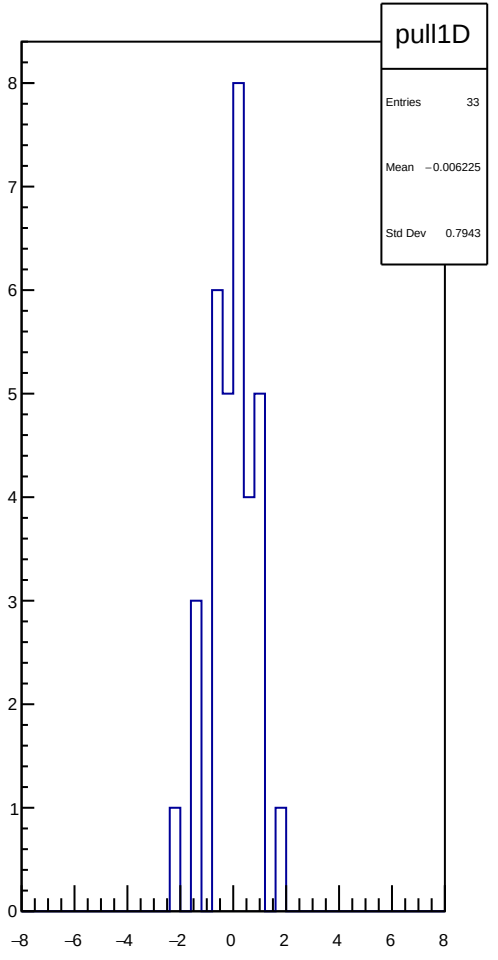

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 20.66 / 32
p0 −10.74 ± 5.979
300
200
100
0
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 178.3
Std Dev 158.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

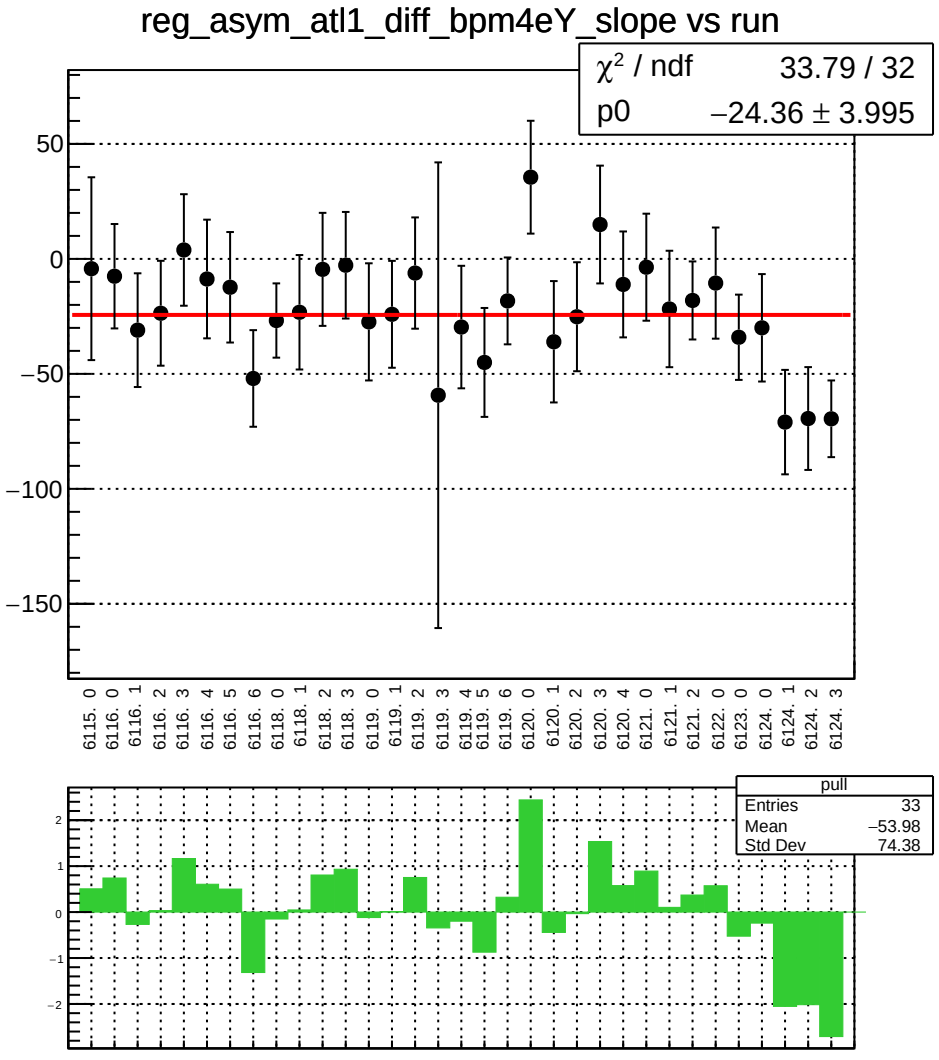

pull1D
Entries 33
Mean 0.006351
Std Dev 0.7913
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

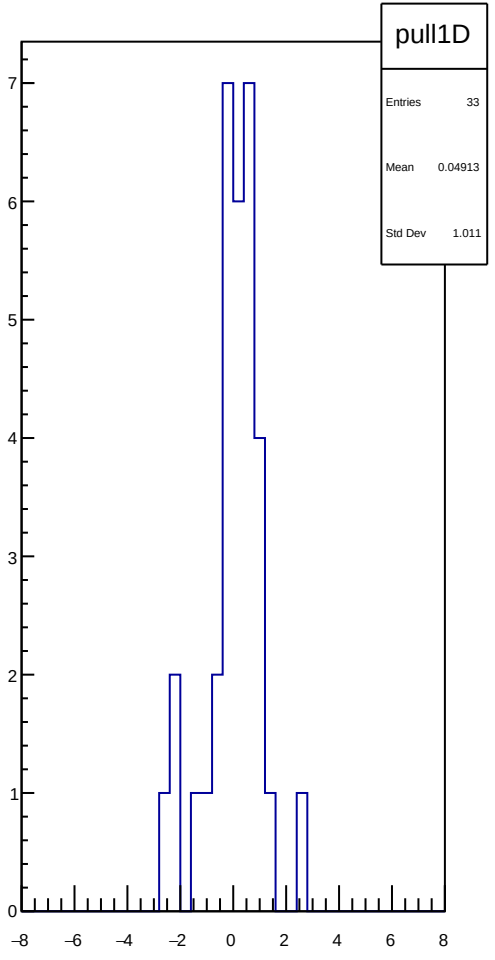

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 32.03 / 32
p0 13.01 ± 3.739
pull
Entries 33
Mean −46.47
Std Dev 66.26

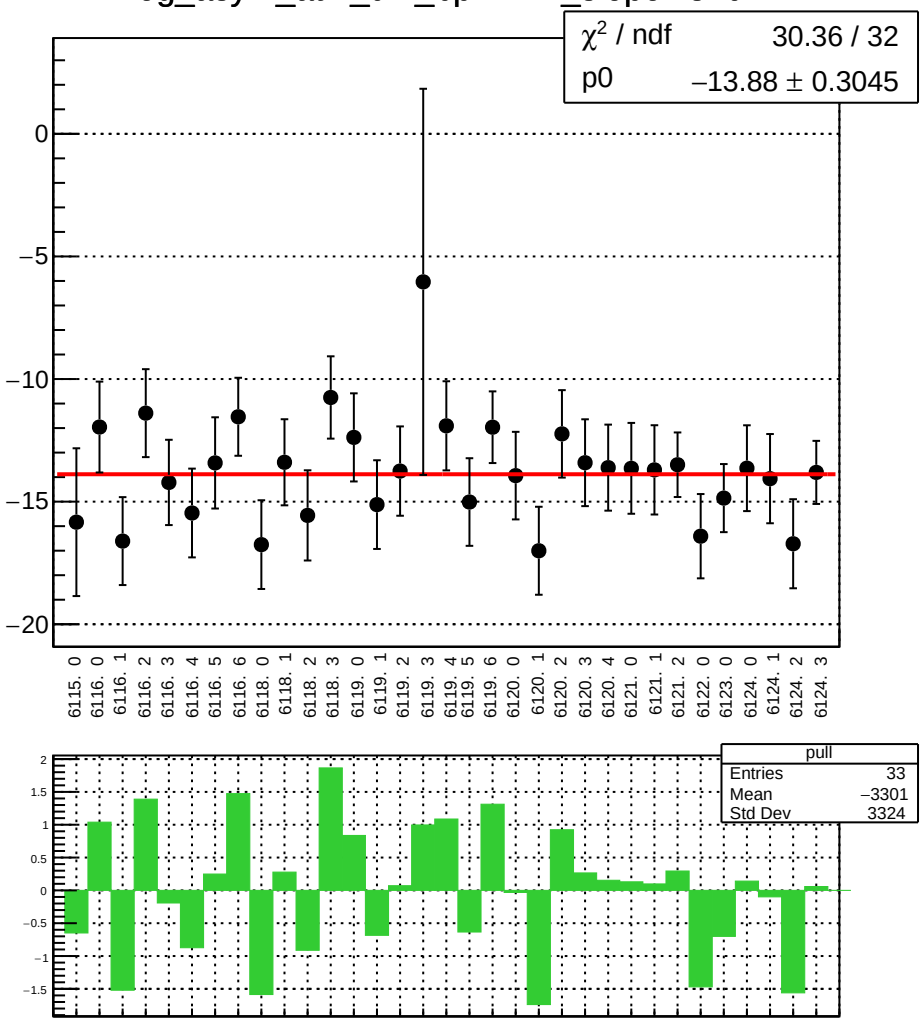

pull1D
Entries 33
Mean −0.05229
Std Dev 0.9838

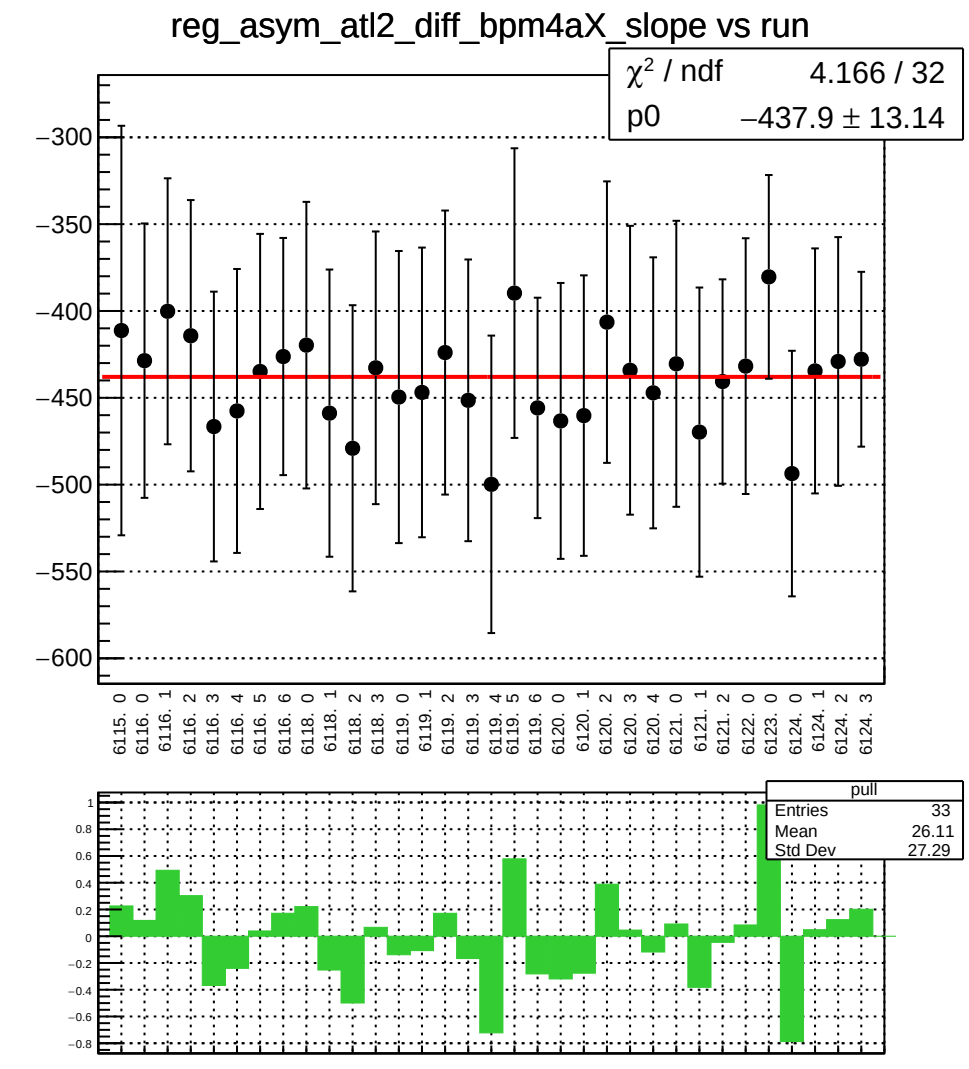

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 20.82 / 32
p0 56.9 ± 6.958
200
100
0
−100
−200
−300
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 208.9
Std Dev 188.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

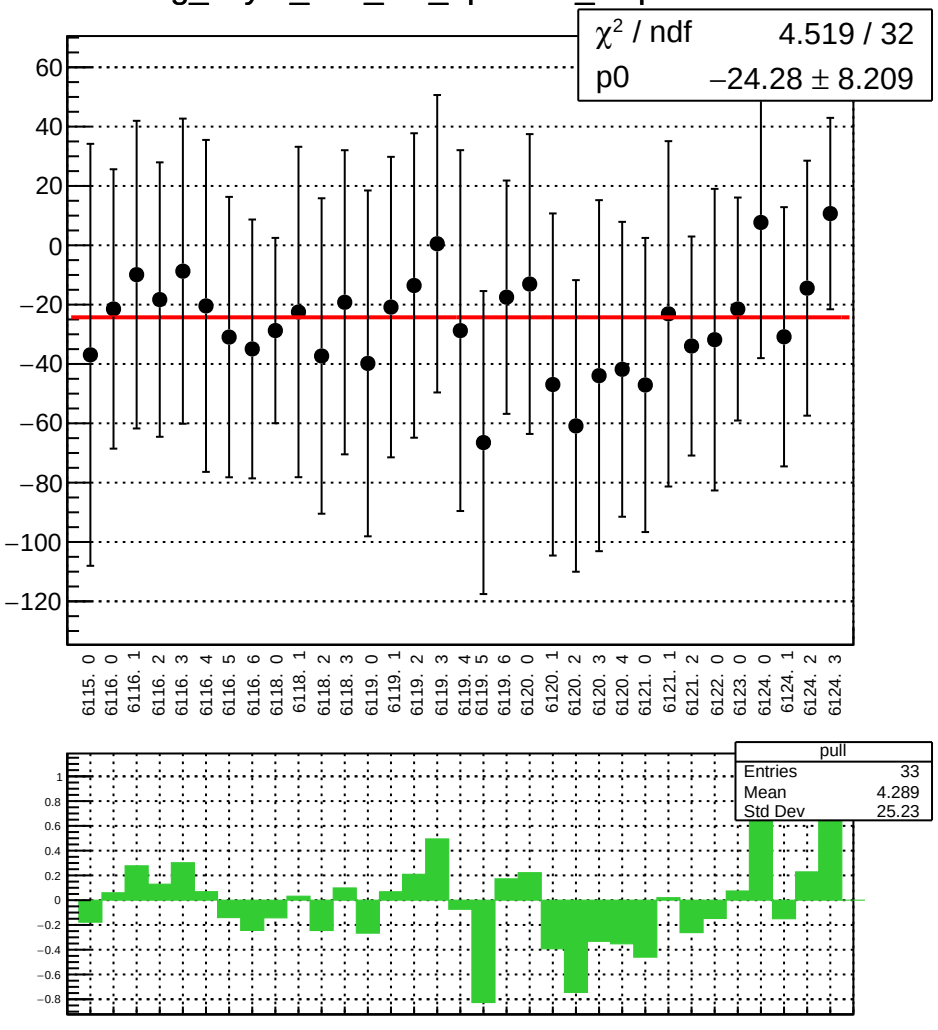

pull1D
Entries 33
Mean −0.006225
Std Dev 0.7943
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

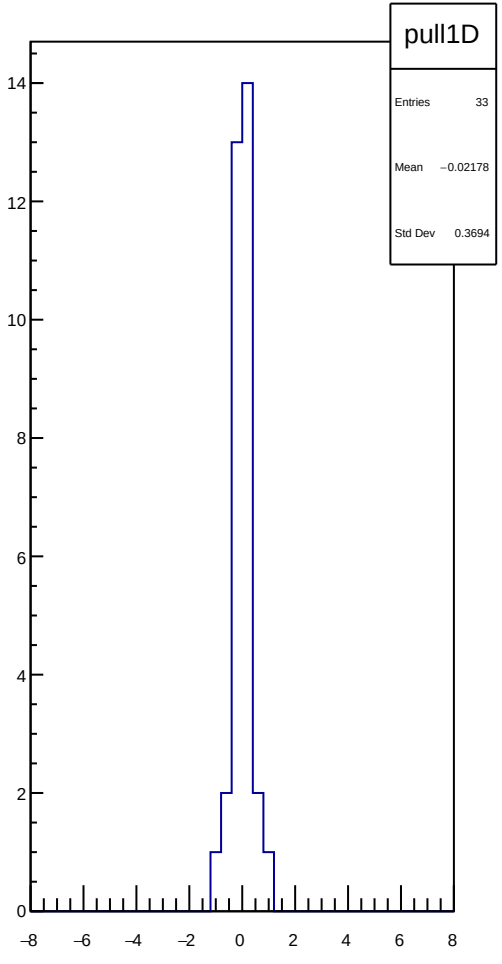

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 33.79 / 32
p0 −24.36 ± 3.995
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −53.98
Std Dev 74.38
2
1
0
−1
−2

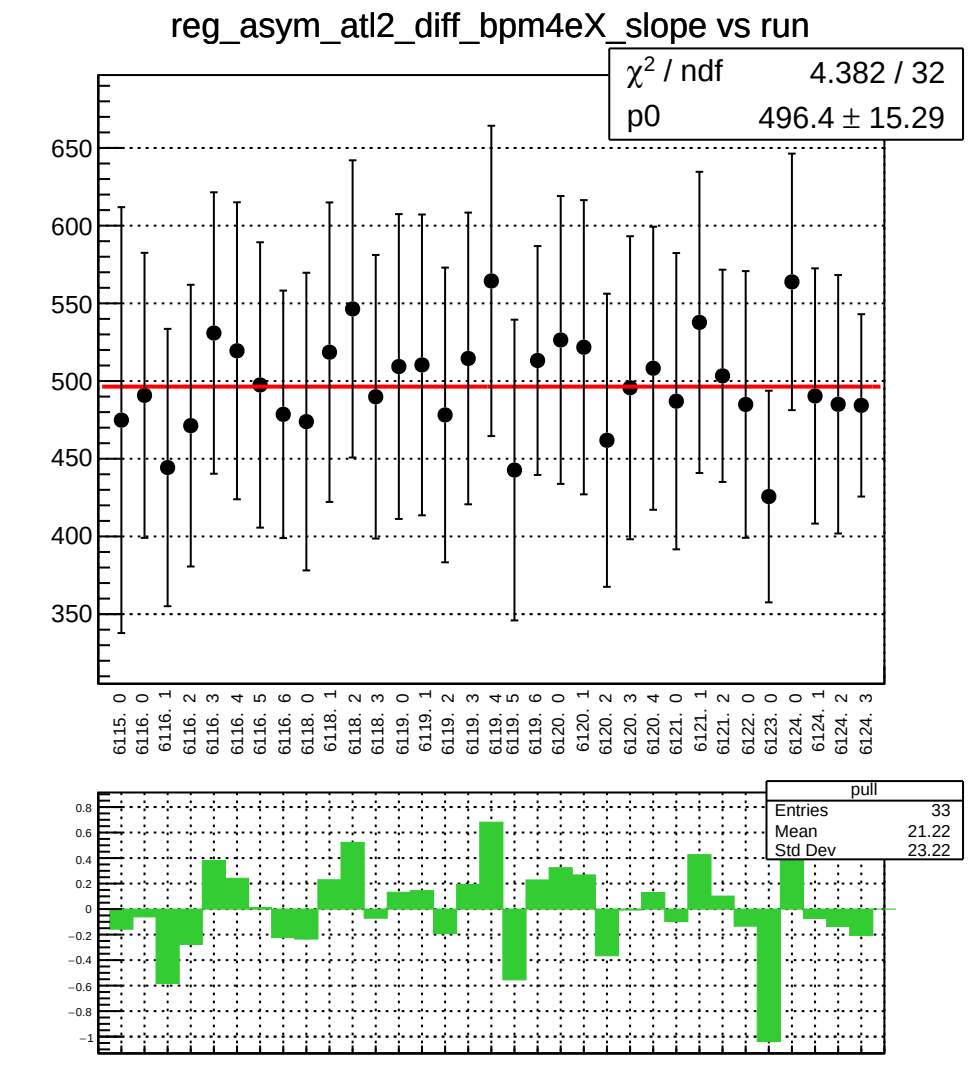

pull1D
Entries 33
Mean 0.04913
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

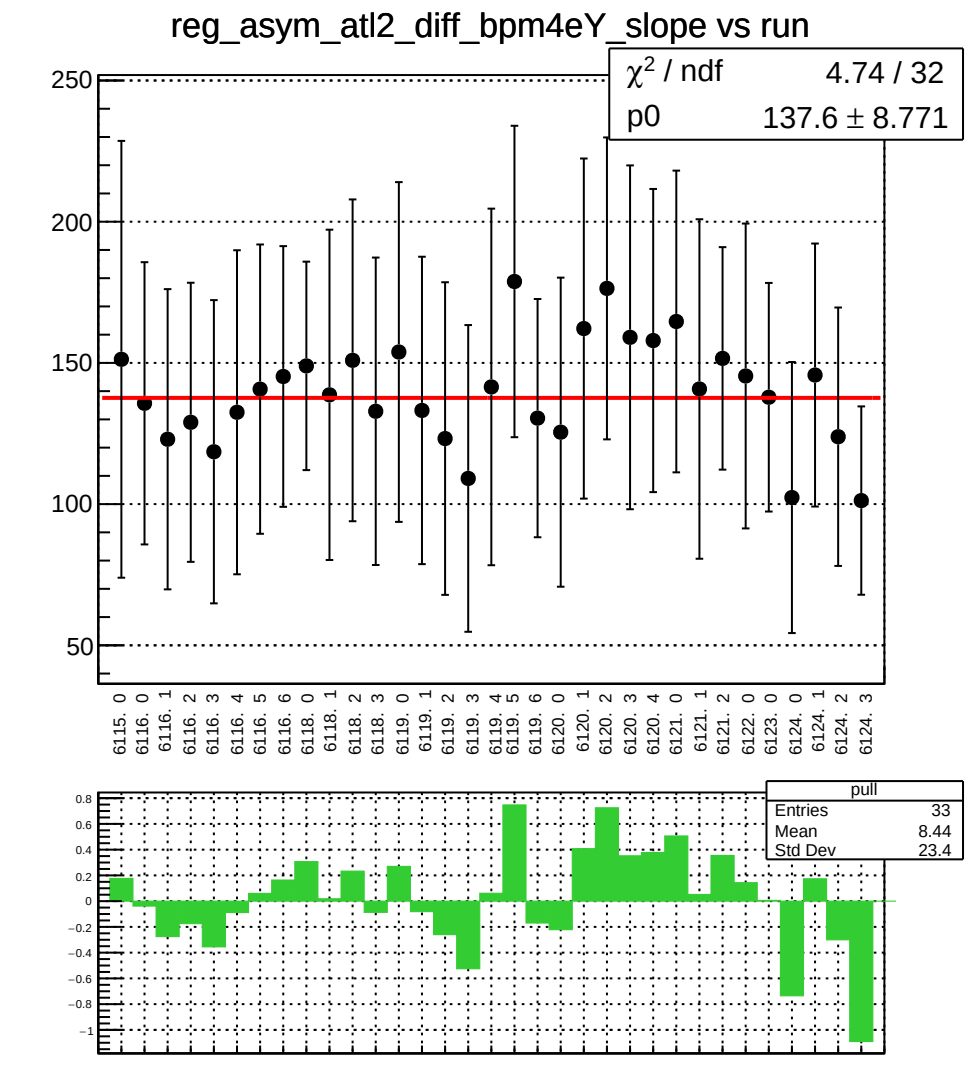

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 30.36 / 32
p0 −13.88 ± 0.3045
0
−5
−10
−15
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −3301
Std Dev 3324
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0003733
Std Dev 0.9592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

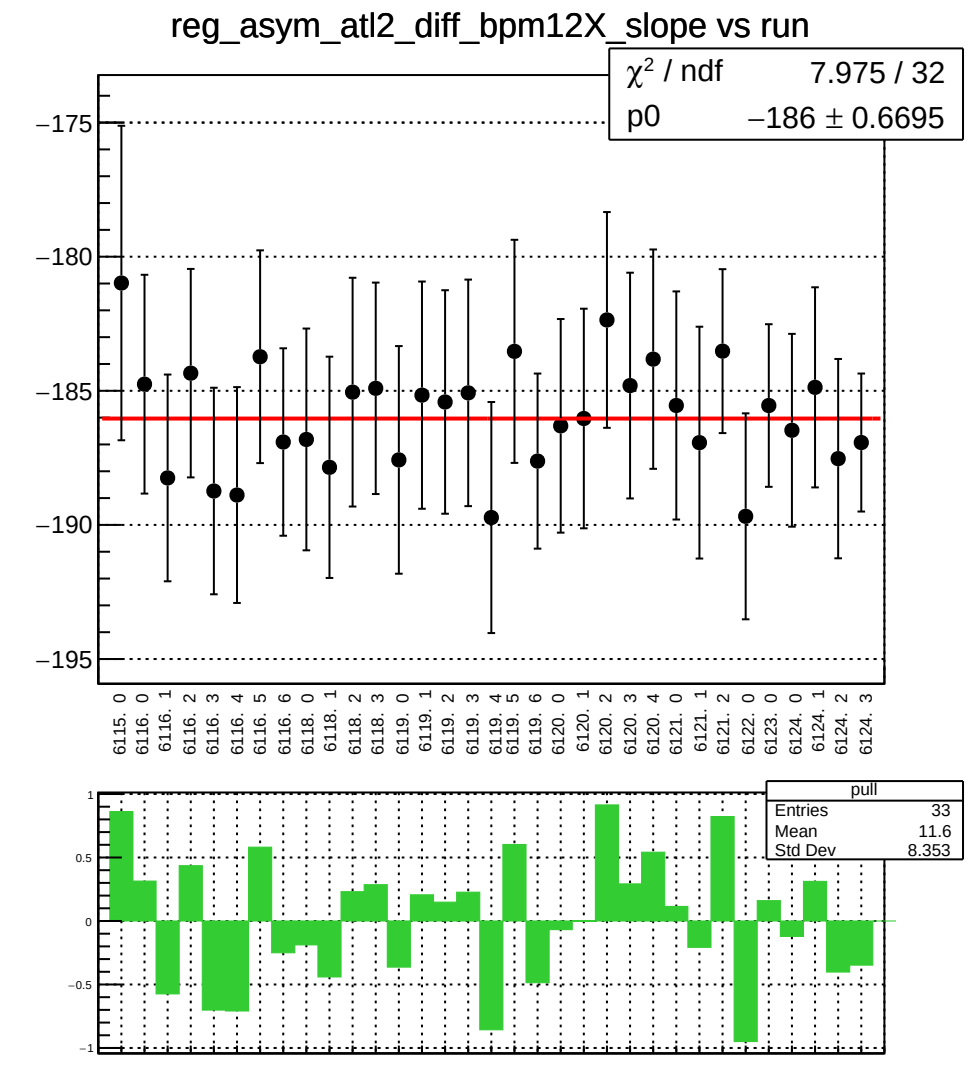

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 4.166 / 32
p0 −437.9 ± 13.14
−300
−350
−400
−450
−500
−550
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 26.11
Std Dev 27.29
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.01053
Std Dev 0.3551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

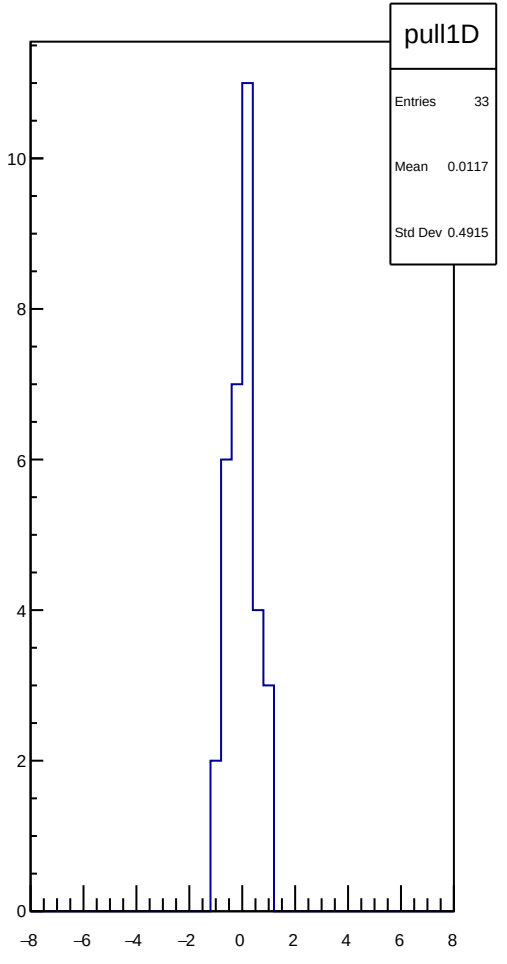

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.519 / 32
p0 −24.28 ± 8.209
pull
Entries 33
Mean 4.289
Std Dev 25.23

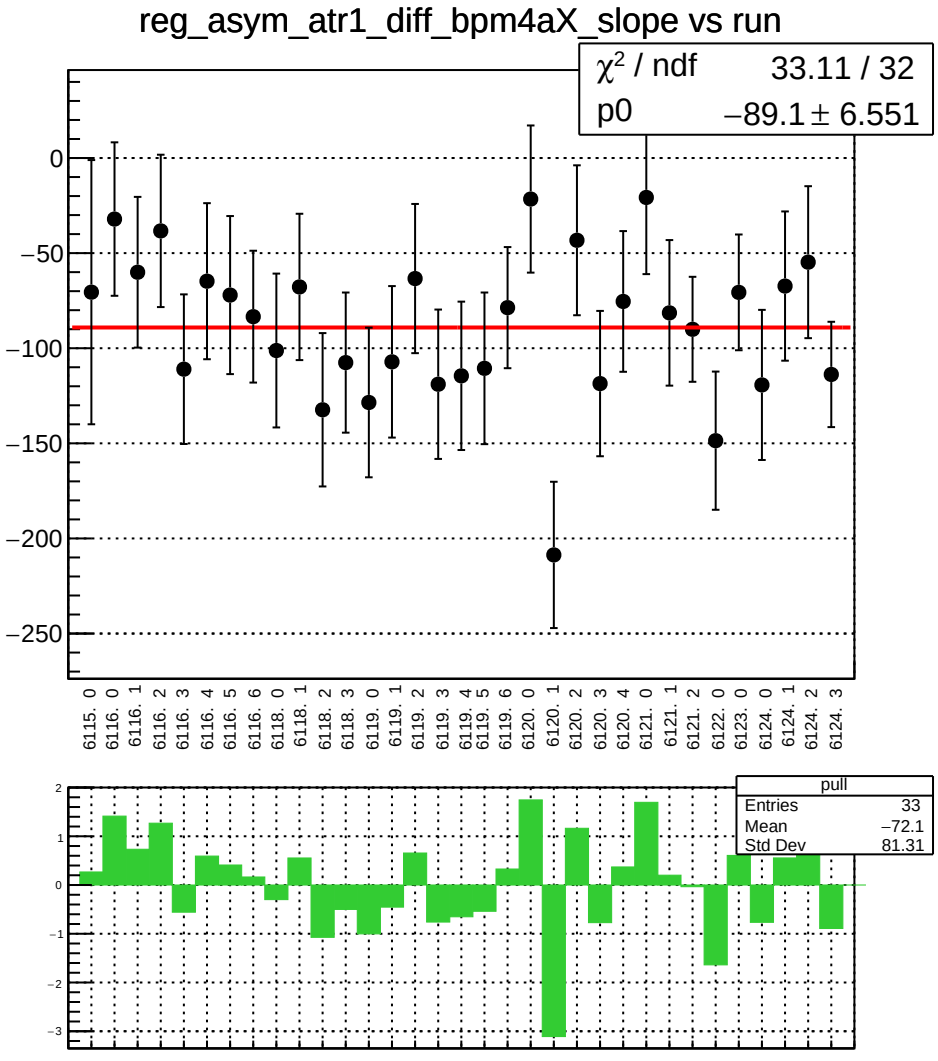

pull1D
Entries 33
Mean −0.02178
Std Dev 0.3694

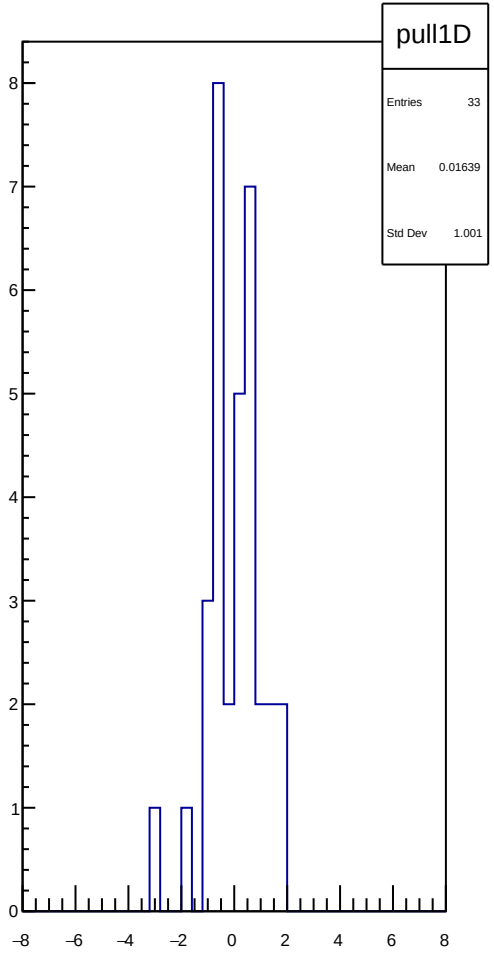

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.382 / 32
p0 496.4 ± 15.29
650
600
550
500
450
400
350
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 21.22
Std Dev 23.22
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 33
Mean 0.01259
Std Dev 0.3642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

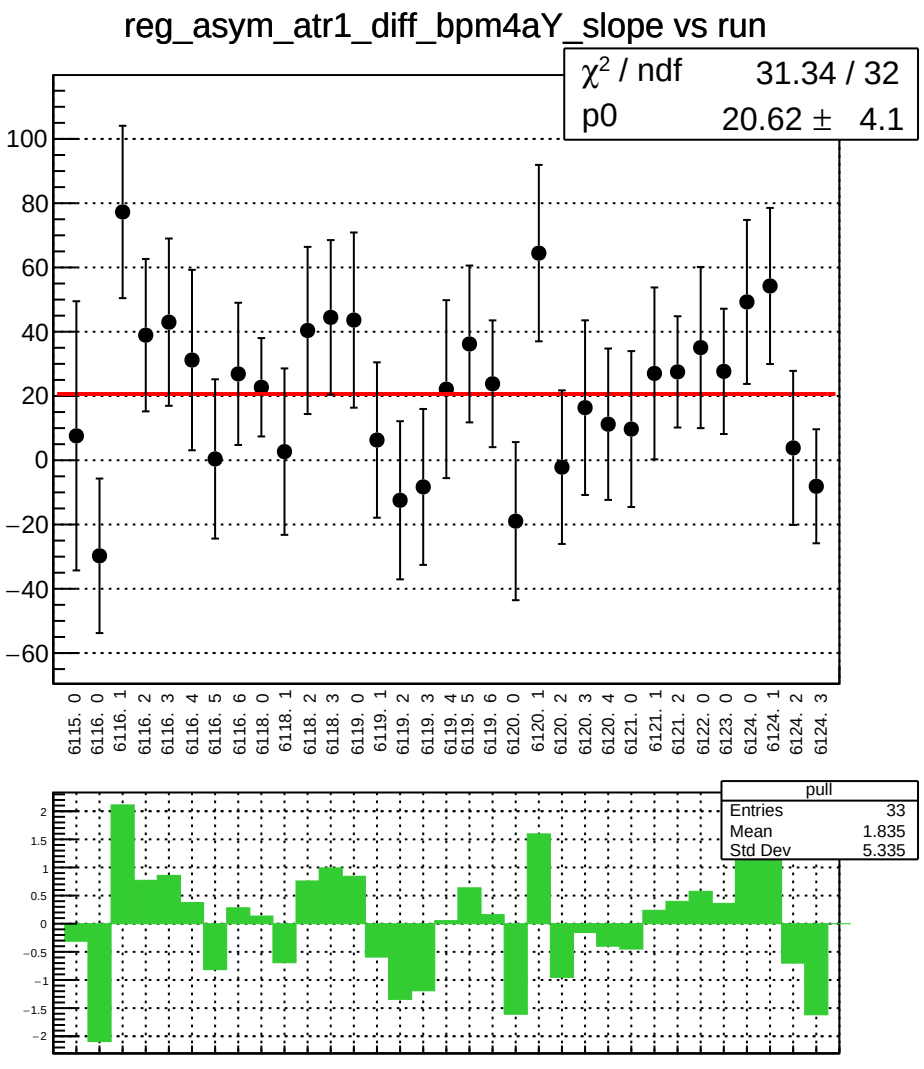

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.74 / 32
p0 137.6 ± 8.771
250
200
150
100
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 8.44
Std Dev 23.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 33
Mean 0.0222
Std Dev 0.3783
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

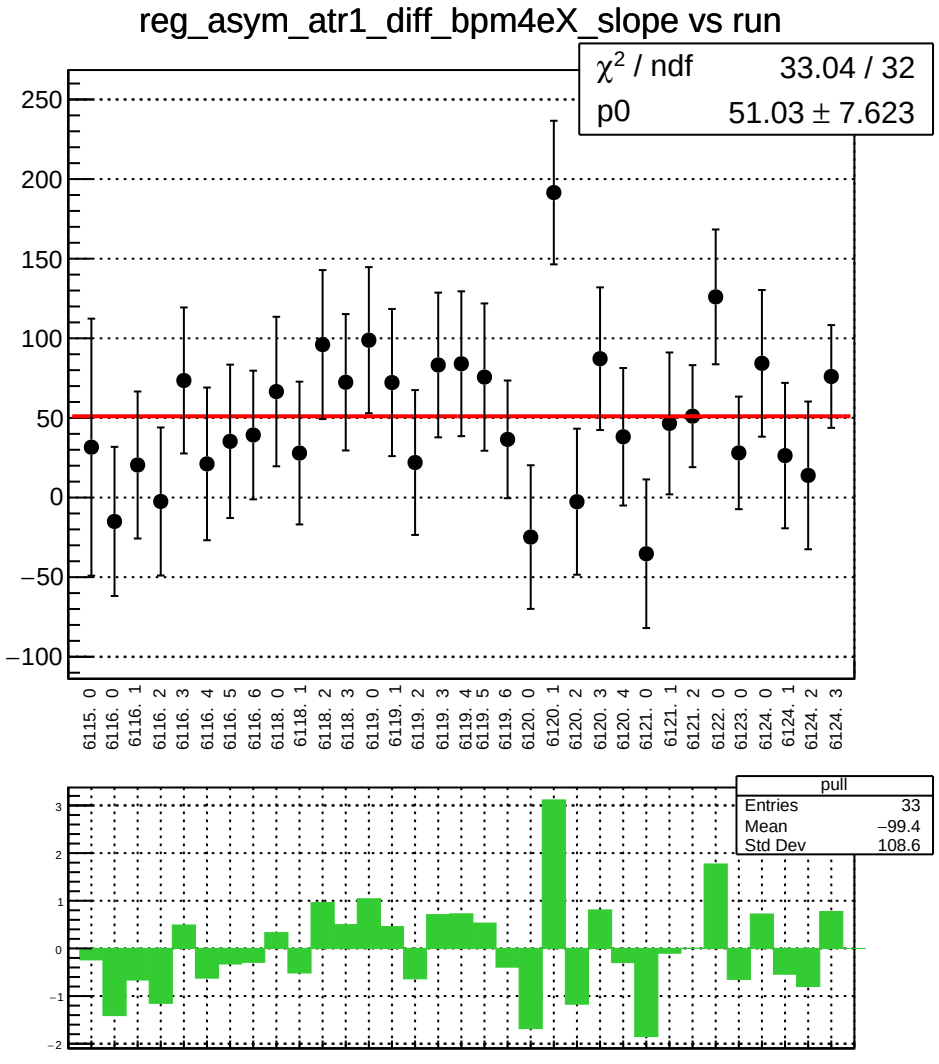

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 7.975 / 32
p0 −186 ± 0.6695
−175
−180
−185
−190
−195
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 11.6
Std Dev 8.353
1
0.5
0
−0.5
−1

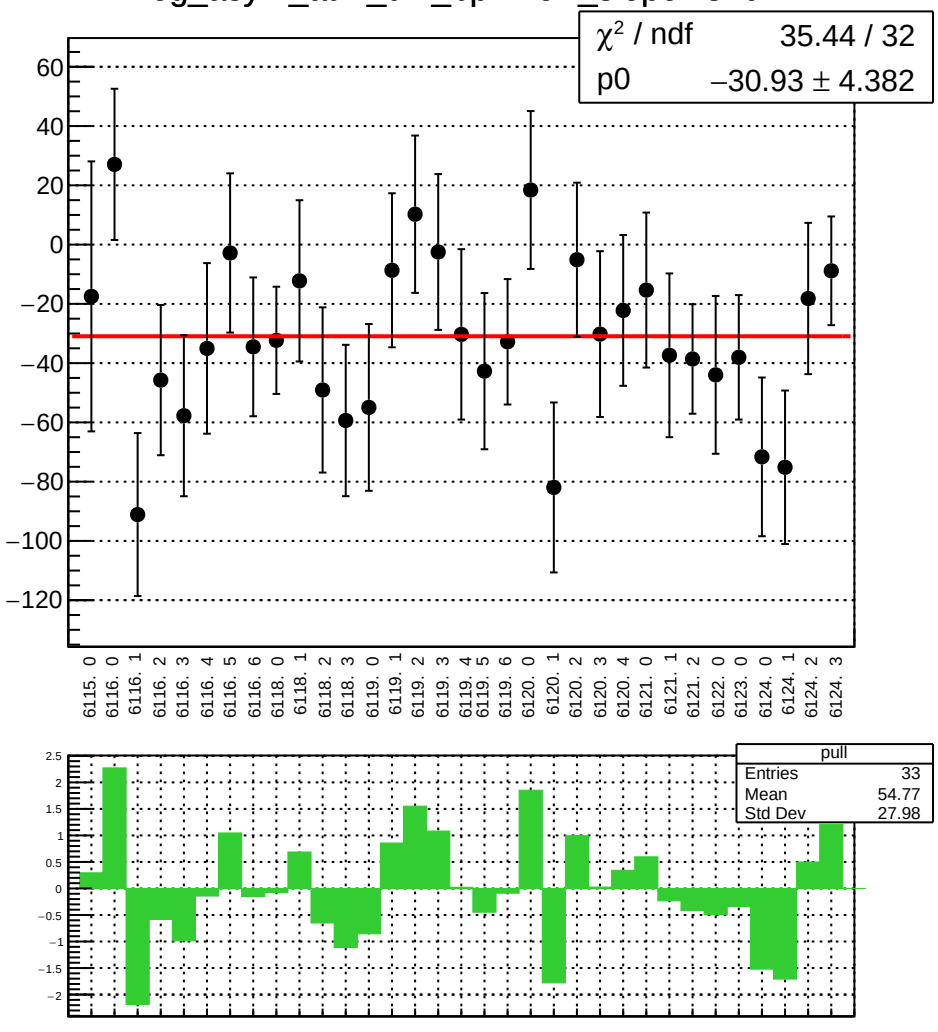

pull1D
Entries 33
Mean 0.0117
Std Dev 0.4915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

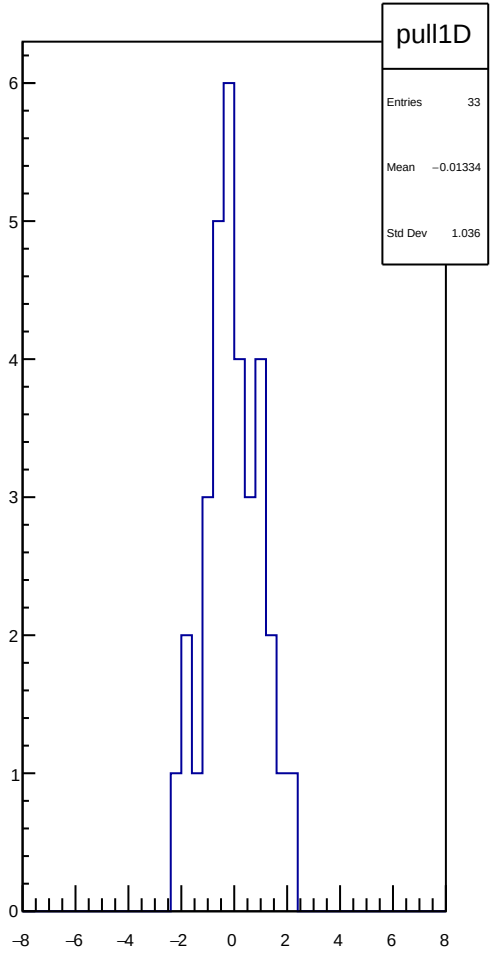

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 33.11 / 32
p0 −89.1 ± 6.551
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −72.1
Std Dev 81.31
2
1
0
−1
−2
−3

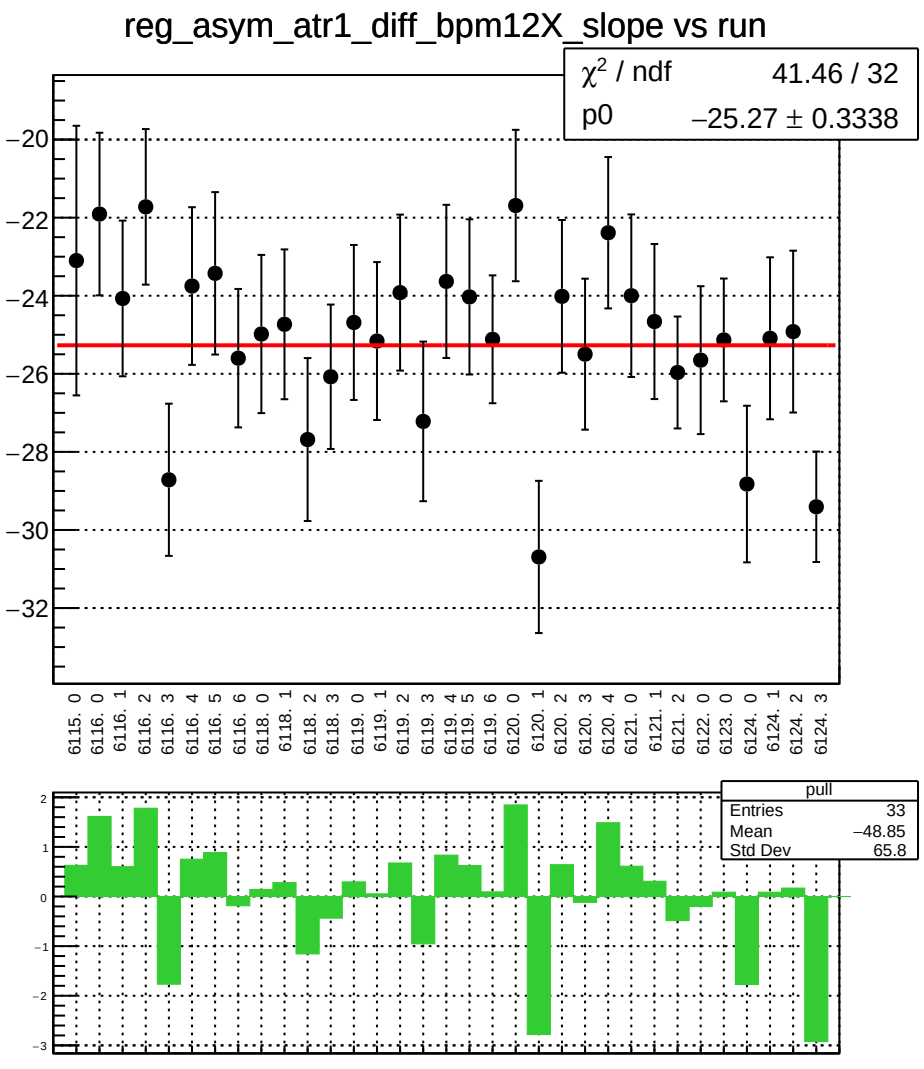

pull1D
Entries 33
Mean 0.01639
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

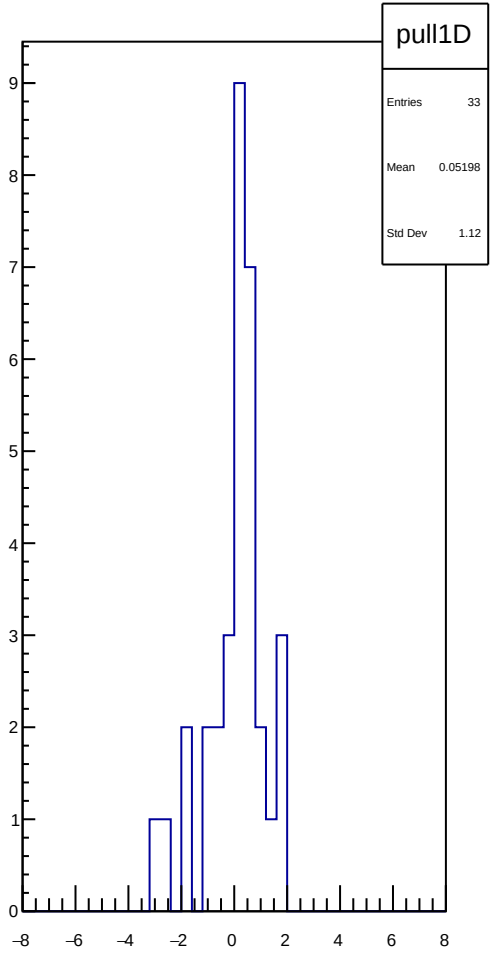

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 31.34 / 32
p0 20.62 ± 4.1
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1.835
Std Dev 5.335
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02219
Std Dev 0.9743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

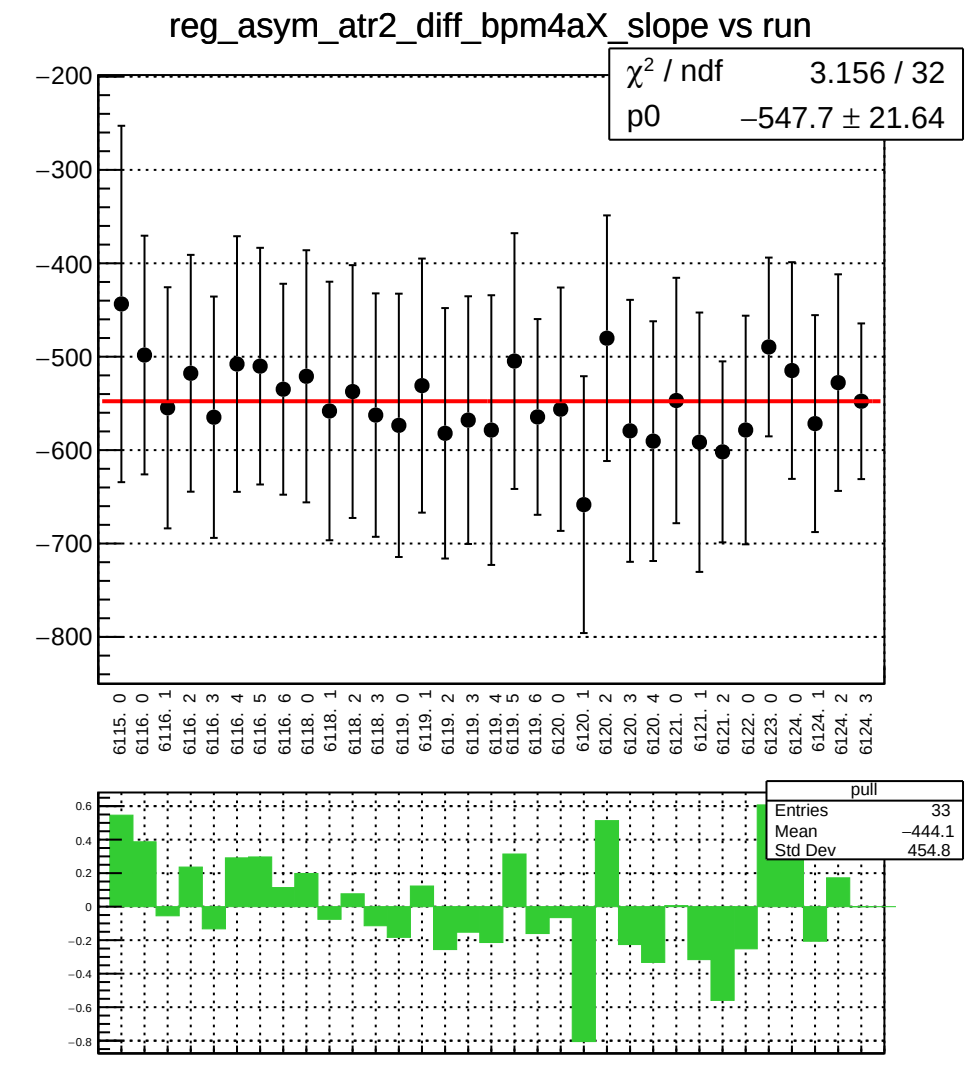

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 33.04 / 32
p0 51.03 ± 7.623
250
200
150
100
50
0
−50
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −99.4
Std Dev 108.6
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01205
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

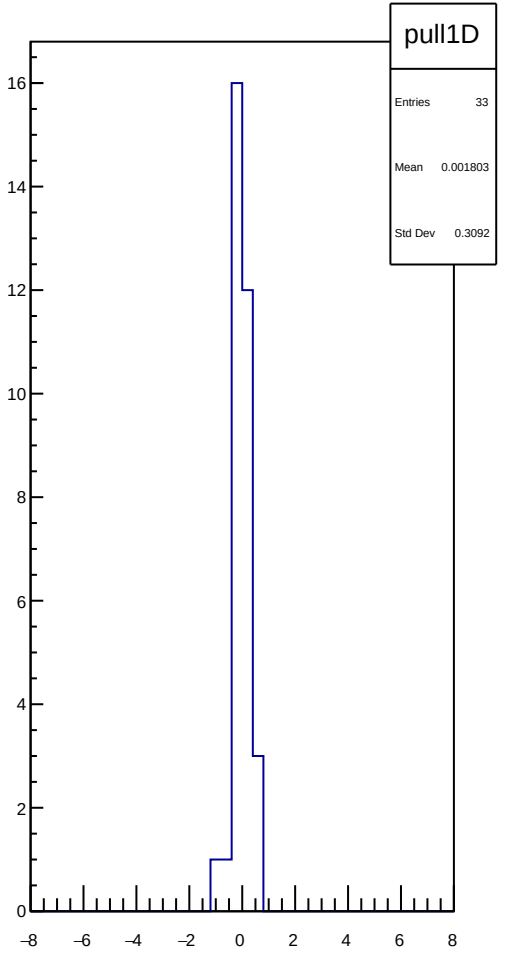

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 35.44 / 32
p0 −30.93 ± 4.382
pull
Entries 33
Mean 54.77
Std Dev 27.98

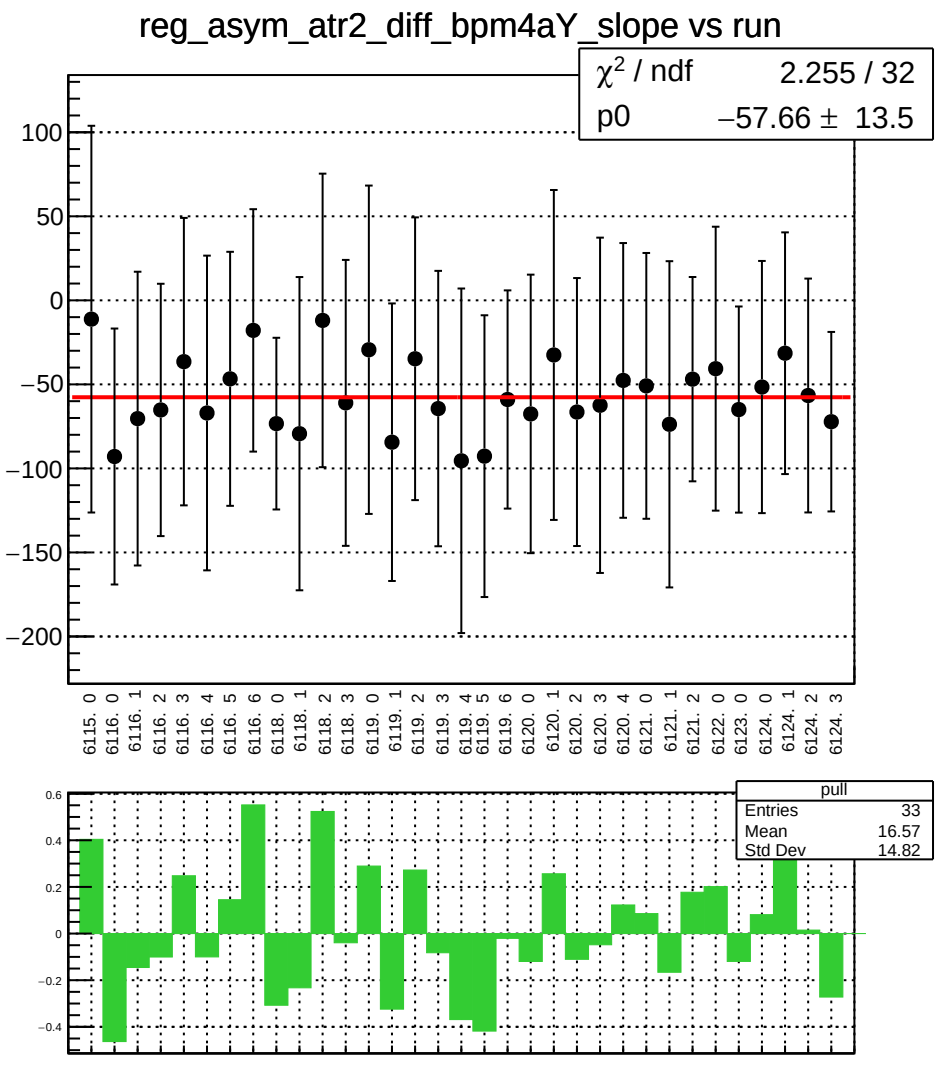

pull1D
Entries 33
Mean −0.01334
Std Dev 1.036

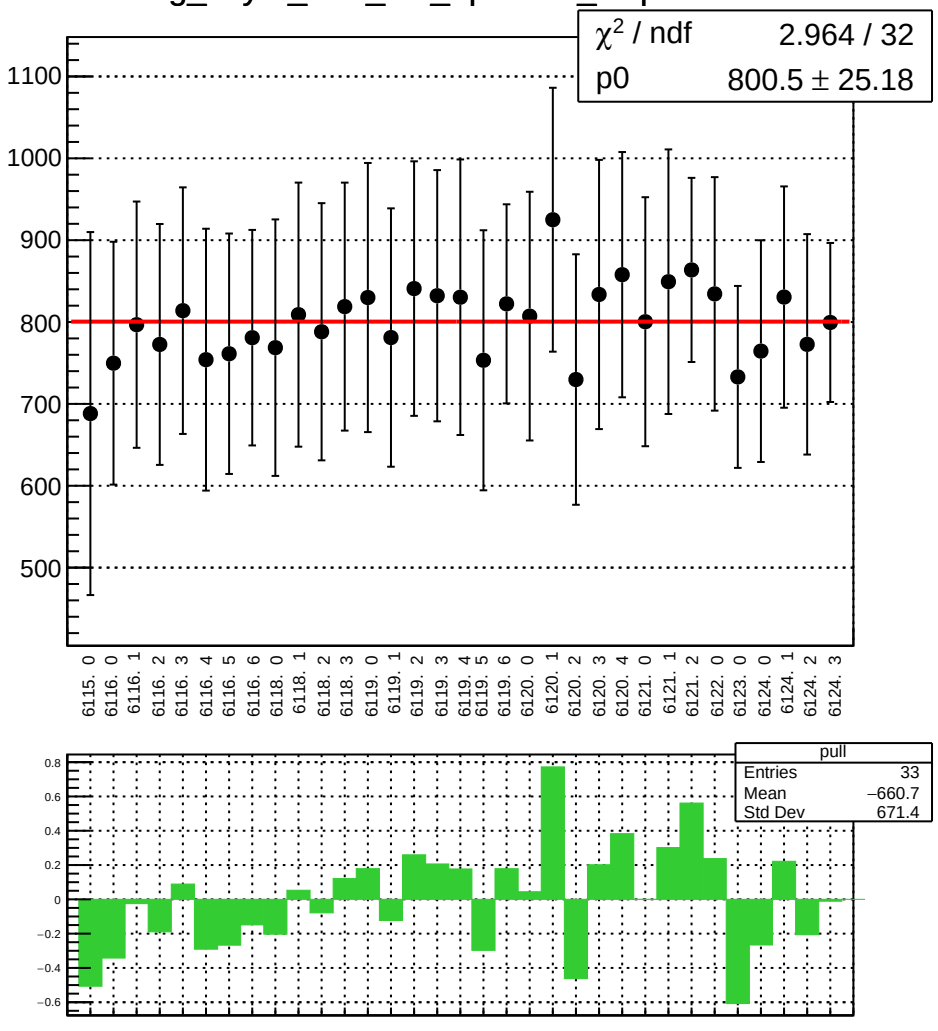

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 41.46 / 32
p0 −25.27 ± 0.3338
−20
−22
−24
−26
−28
−30
−32
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −48.85
Std Dev 65.8
2
1
0
−1
−2
−3

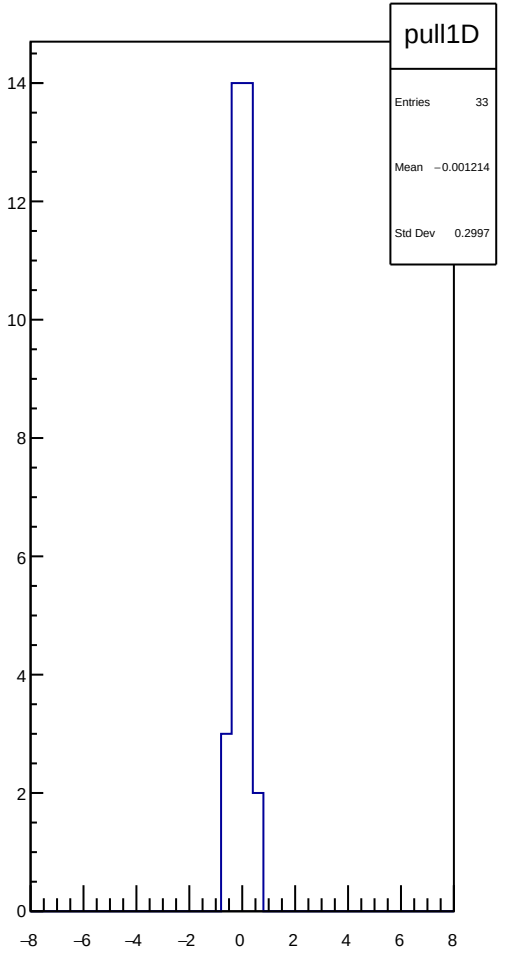

pull1D
Entries 33
Mean 0.05198
Std Dev 1.12
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

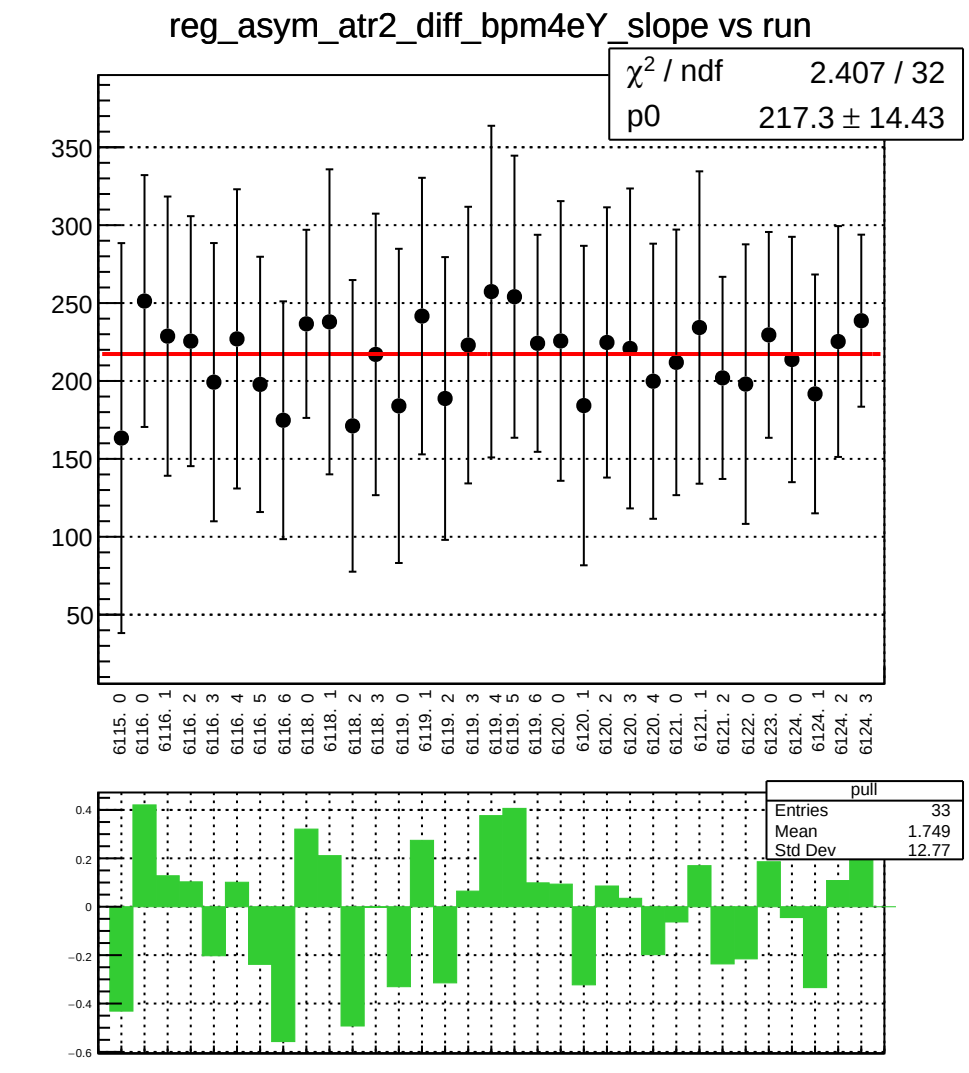

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 3.156 / 32
p0 −547.7 ± 21.64
−200
−300
−400
−500
−600
−700
−800
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −444.1
Std Dev 454.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

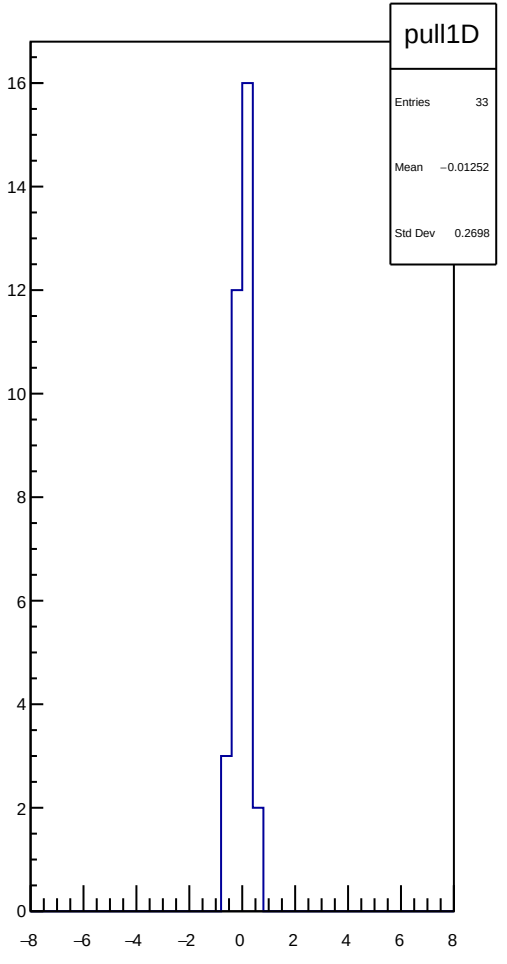

pull1D
Entries 33
Mean 0.001803
Std Dev 0.3092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

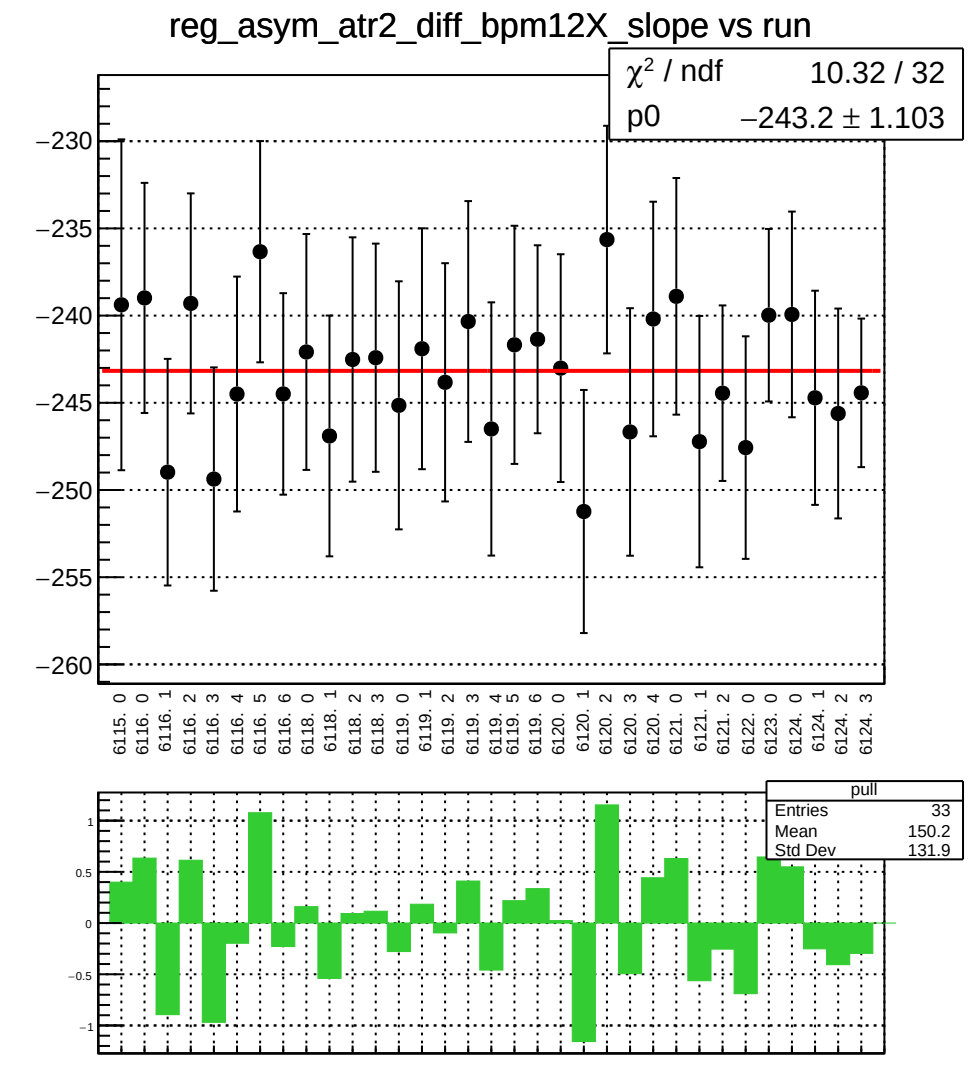

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.255 / 32
p0 −57.66 ± 13.5
100
50
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.57
Std Dev 14.82
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean 0.009063
Std Dev 0.2612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

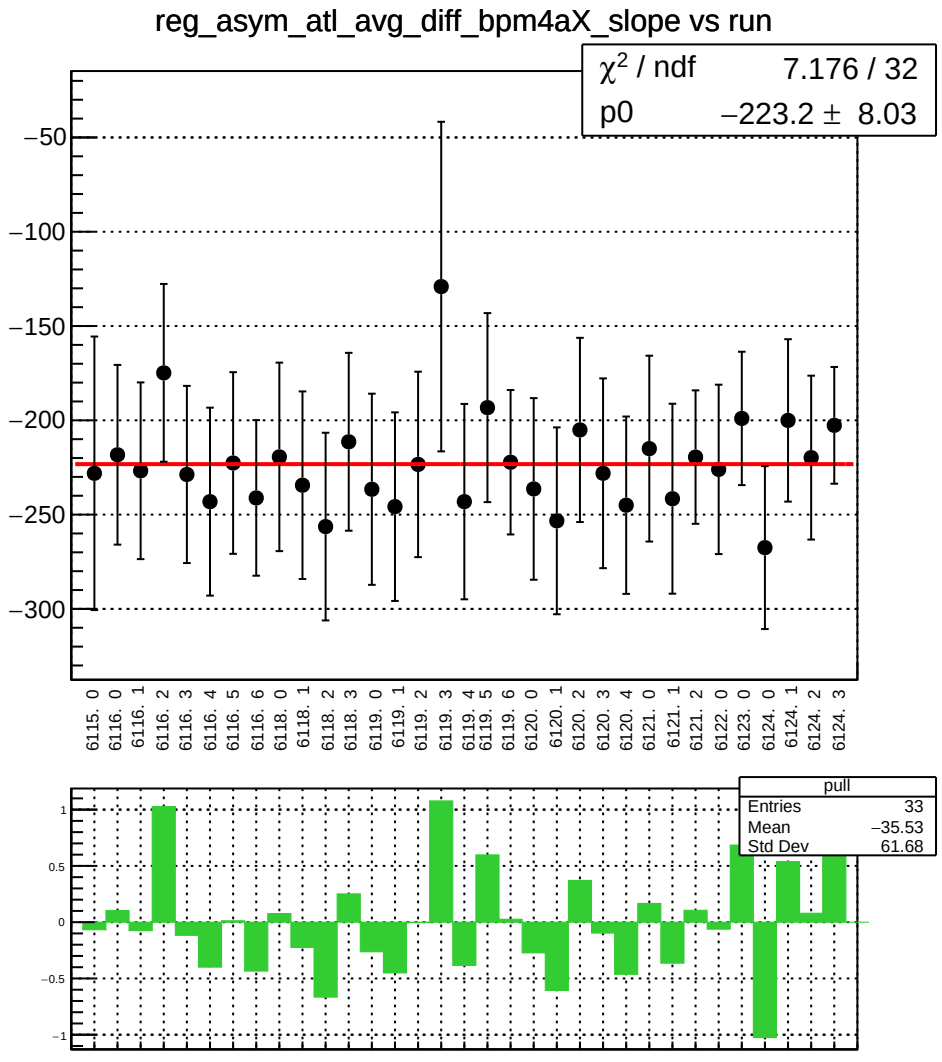

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.964 / 32
p0 800.5 ± 25.18
1100
1000
900
800
700
600
500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −660.7
Std Dev 671.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

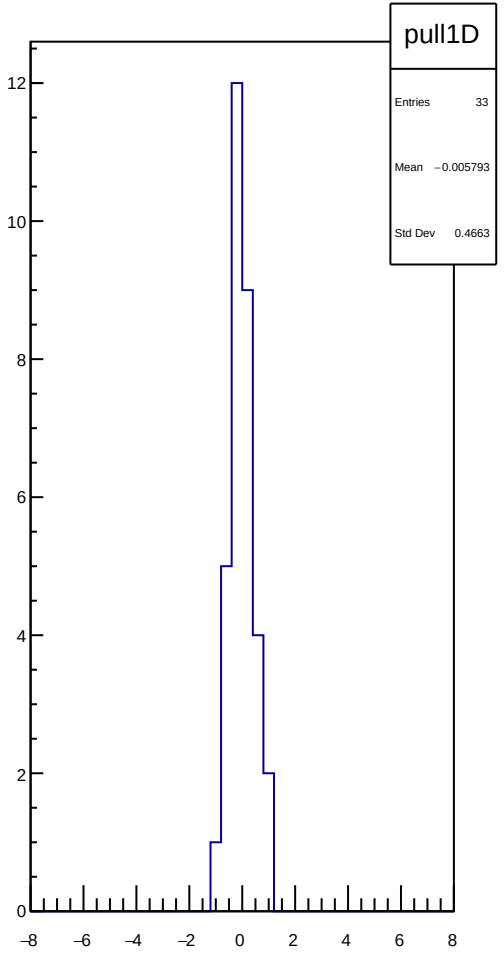

pull1D
Entries 33
Mean −0.001214
Std Dev 0.2997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

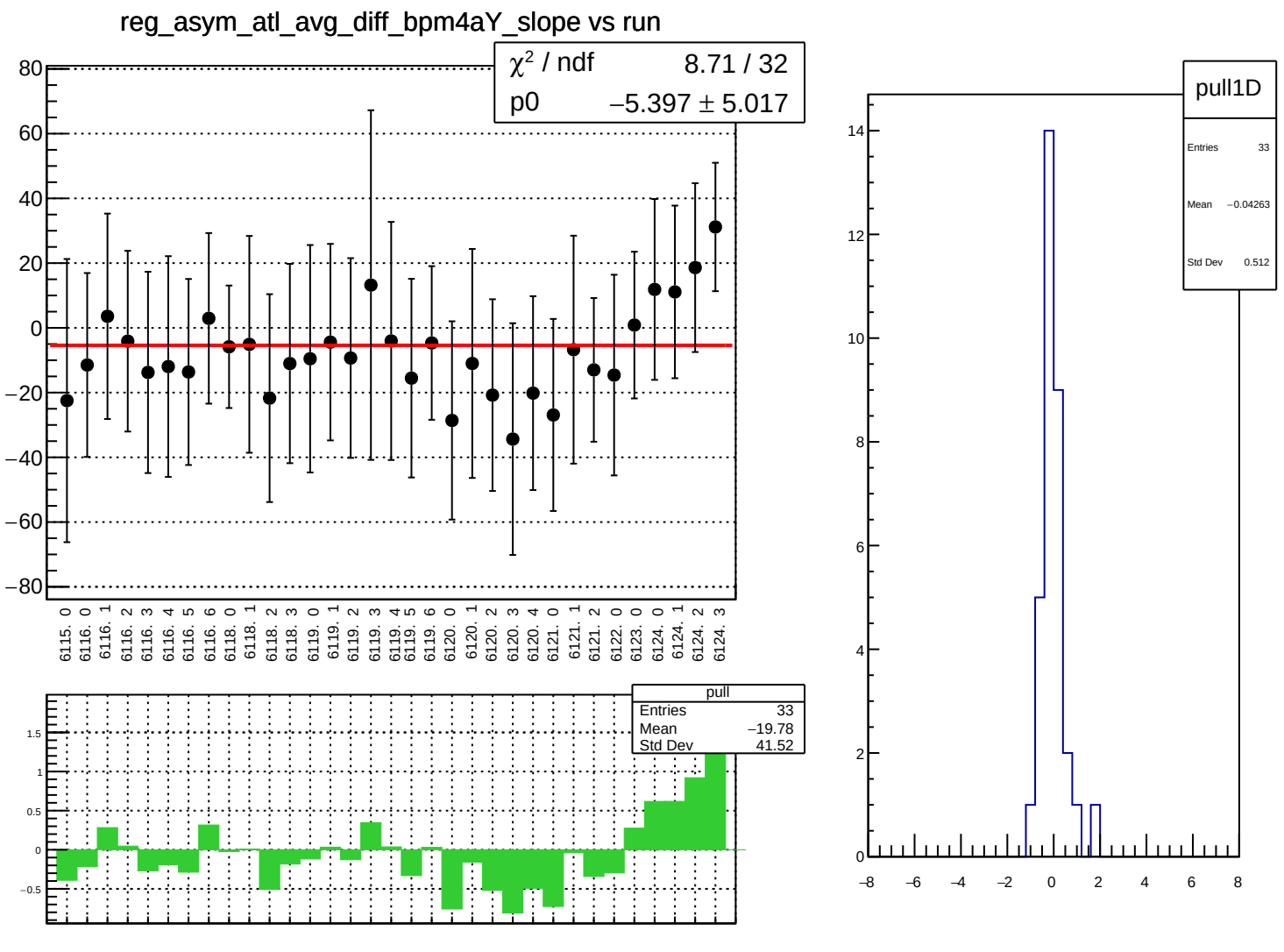

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.407 / 32
p0 217.3 ± 14.43
350
300
250
200
150
100
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1.749
Std Dev 12.77
0.4
0.2
0
−0.2
−0.4
−0.6

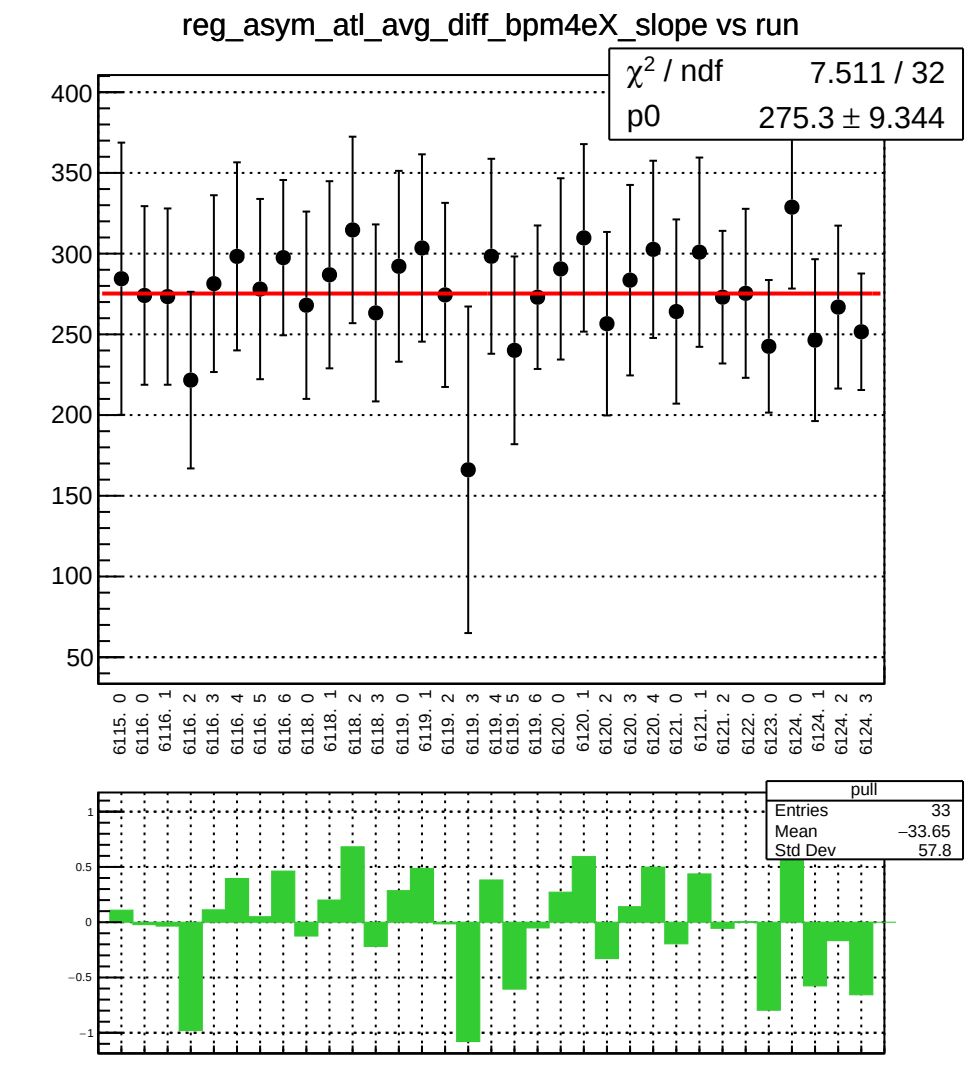

pull1D
Entries 33
Mean −0.01252
Std Dev 0.2698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

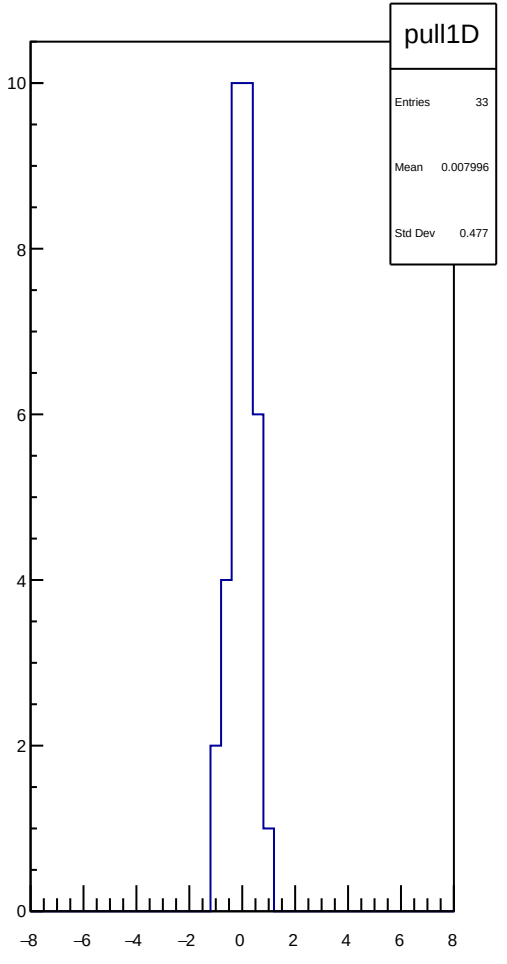

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 10.32 / 32
p0 −243.2 ± 1.103
−230
−235
−240
−245
−250
−255
−260
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 150.2
Std Dev 131.9
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.002709
Std Dev 0.5593
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

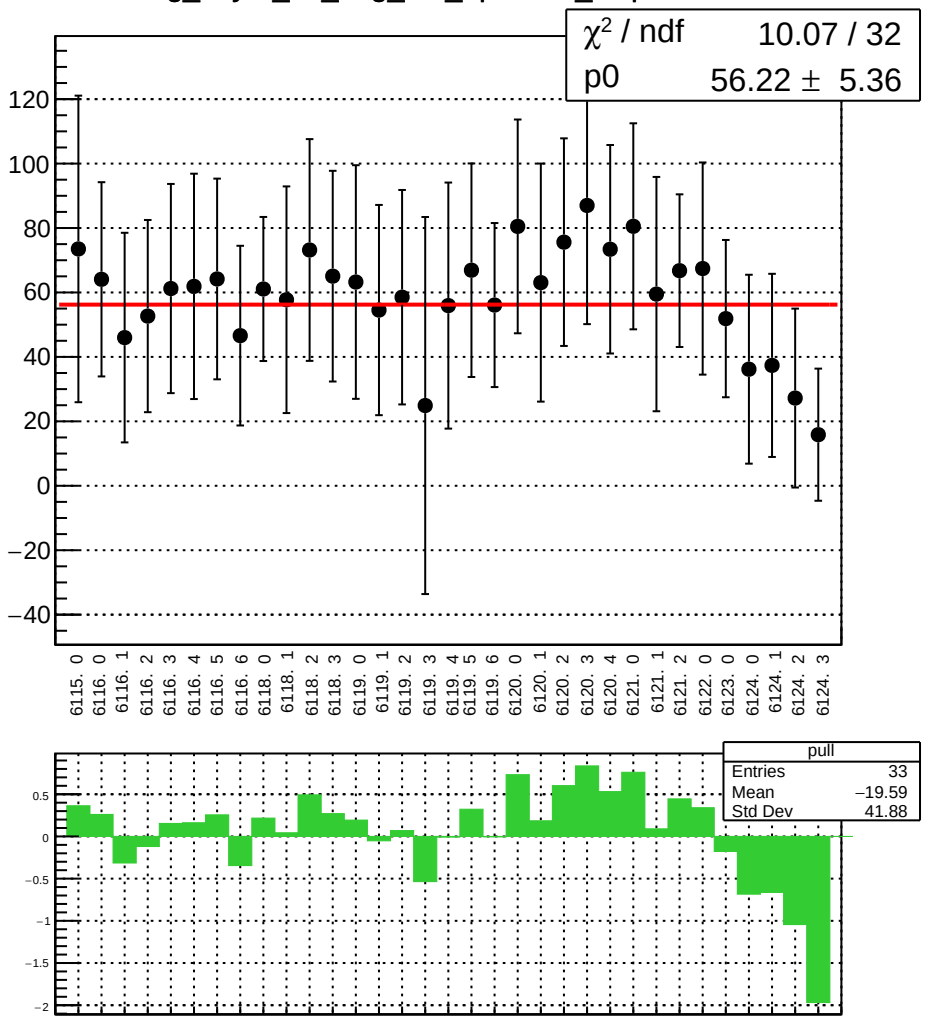

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.176 / 32
p0 −223.2 ± 8.03
−50
−100
−150
−200
−250
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −35.53
Std Dev 61.68
1
0.5
0
−0.5
−1

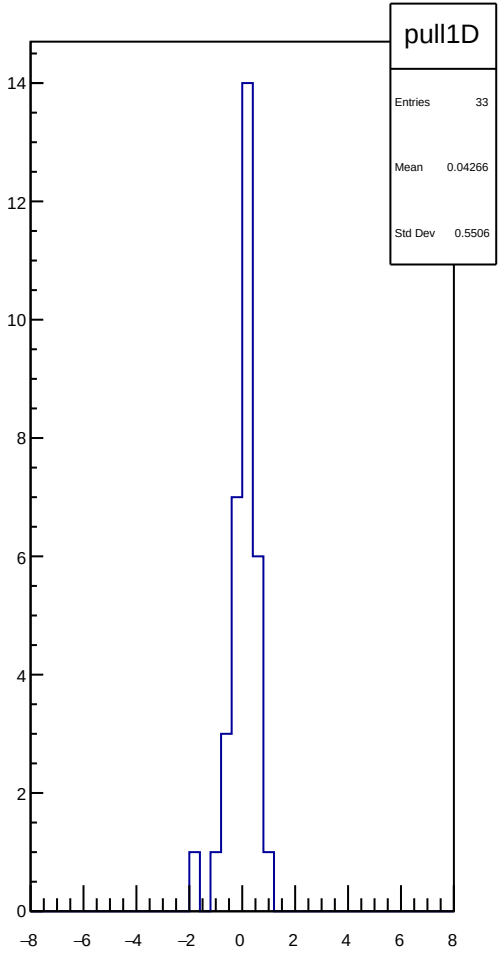

pull1D
Entries 33
Mean −0.005793
Std Dev 0.4663
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

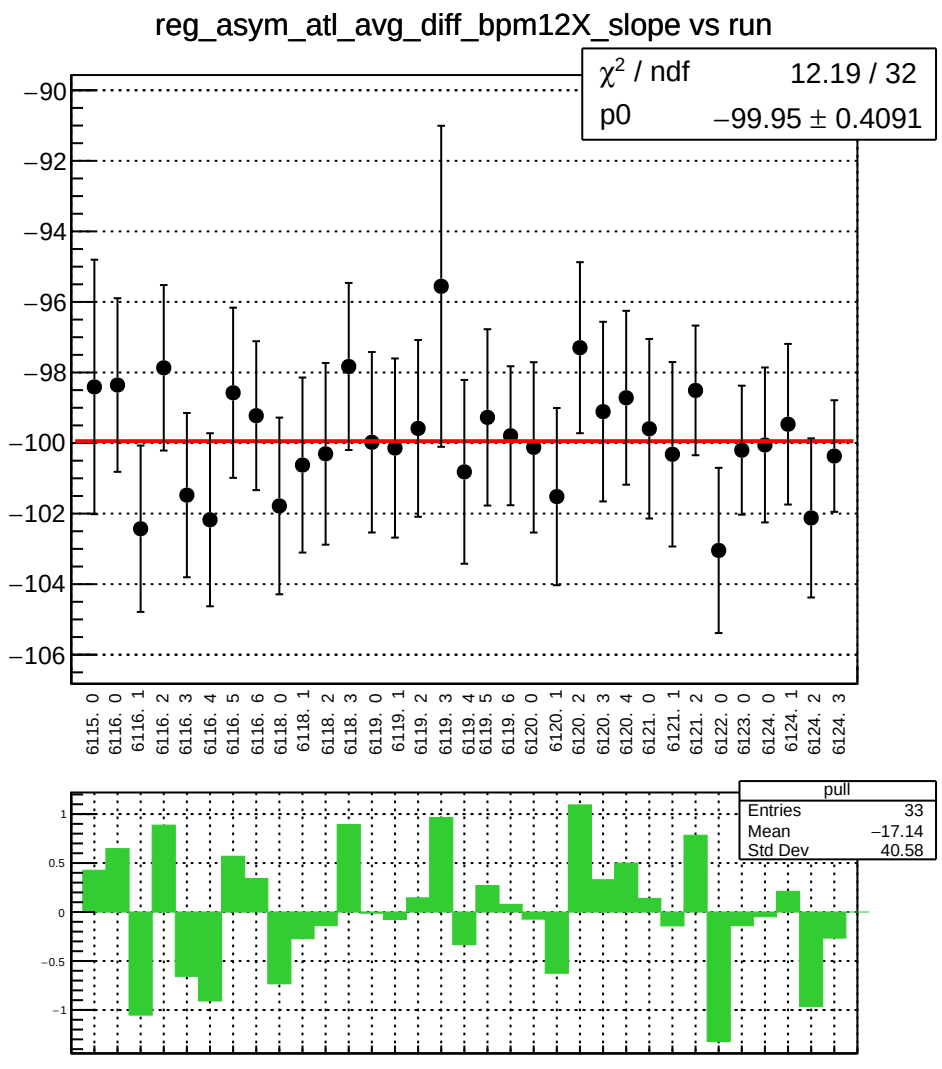

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.71 / 32
p0 −5.397 ± 5.017
80
60
40
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −19.78
Std Dev 41.52
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean −0.04263
Std Dev 0.512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

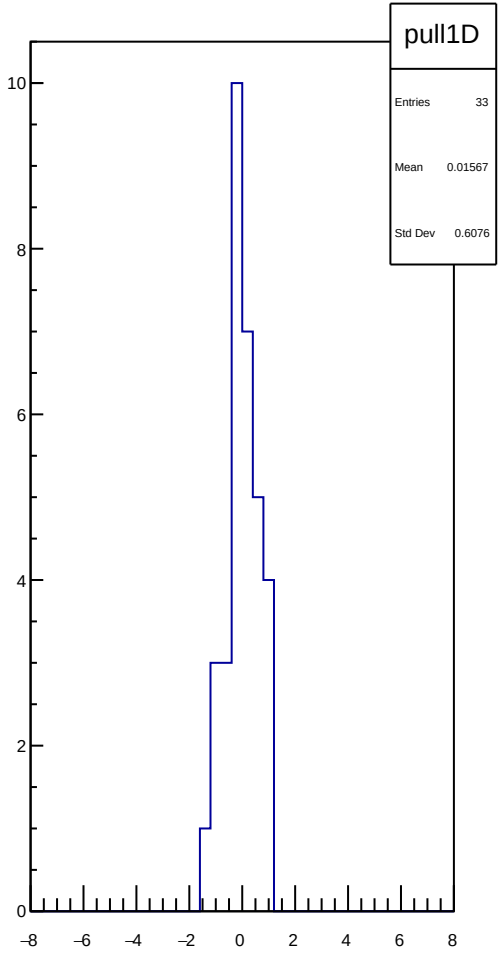

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.511 / 32
p0 275.3 ± 9.344
400
350
300
250
200
150
100
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −33.65
Std Dev 57.8
1
0.5
0
−0.5
−1

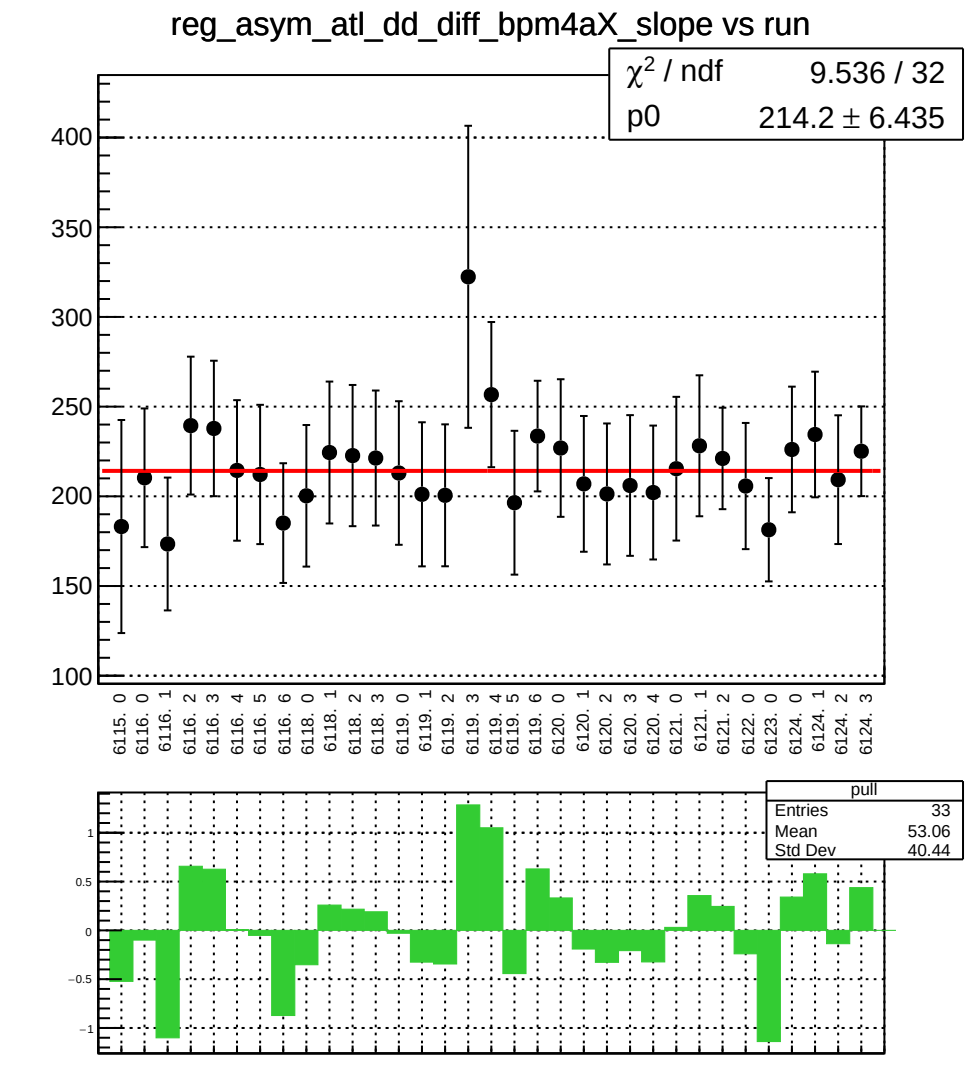

pull1D
Entries 33
Mean 0.007996
Std Dev 0.477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

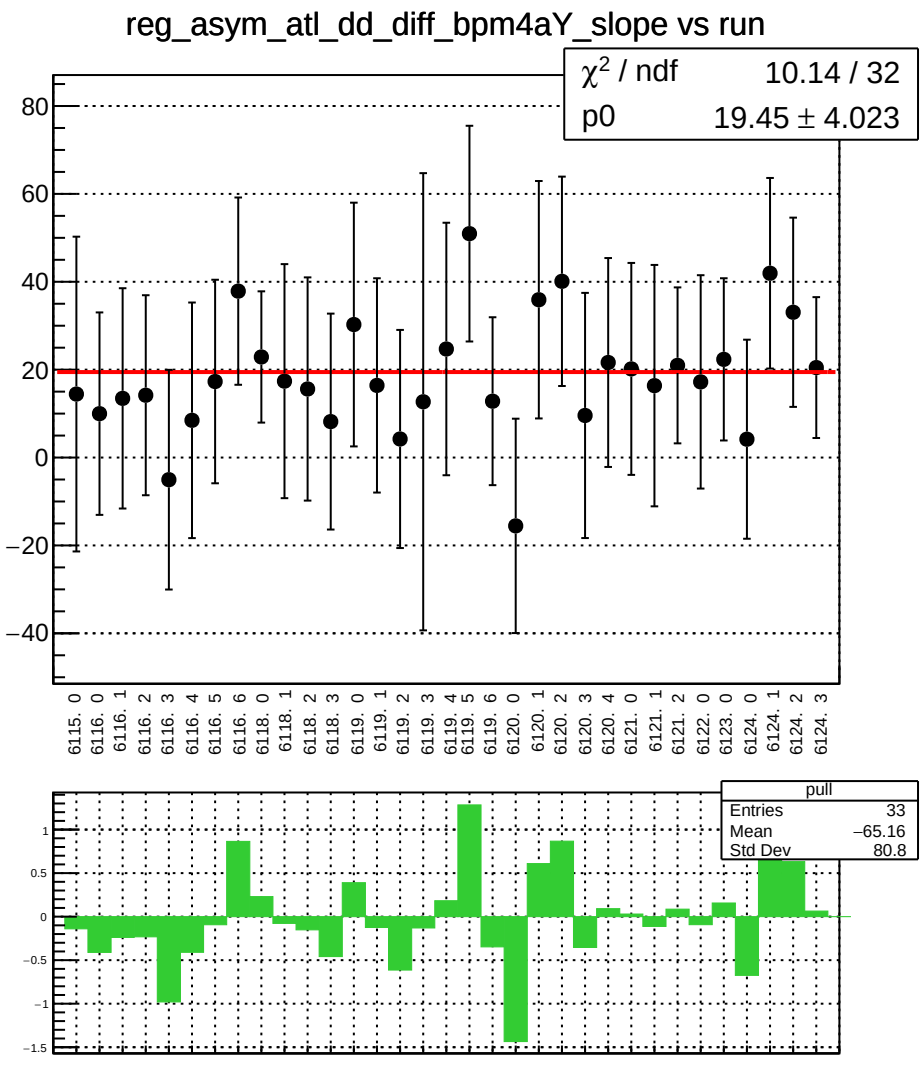

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.07 / 32
p0 56.22 ± 5.36
pull
Entries 33
Mean −19.59
Std Dev 41.88

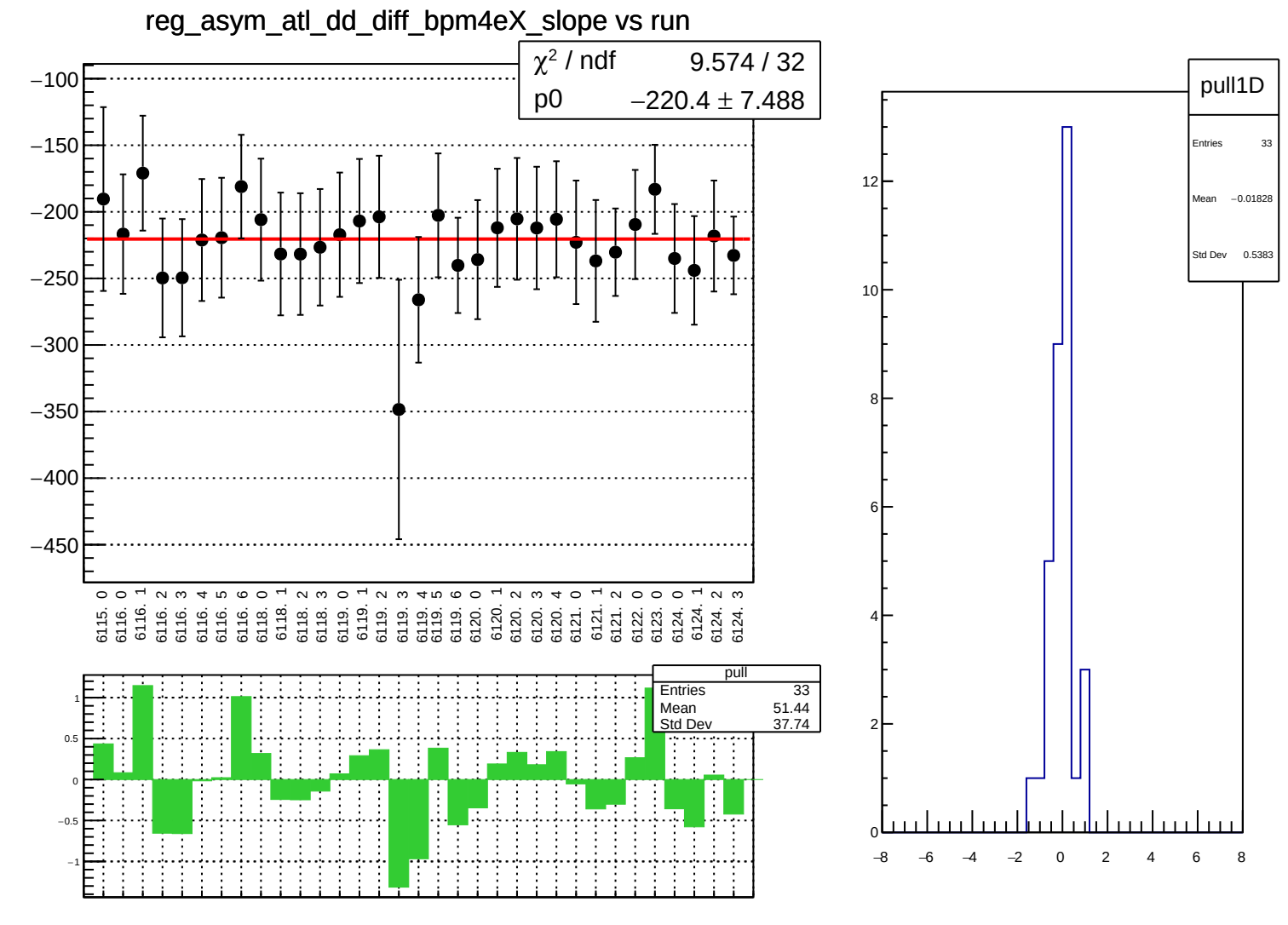

pull1D
Entries 33
Mean 0.04266
Std Dev 0.5506

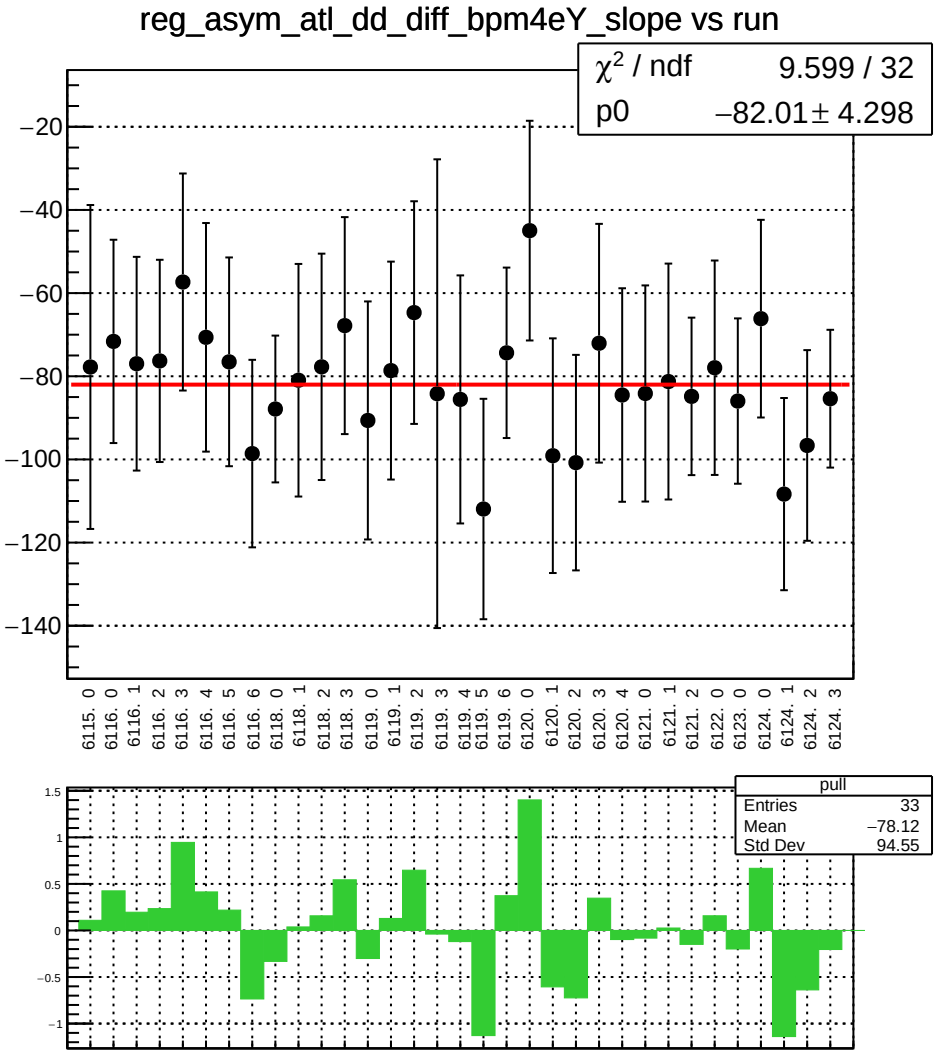

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 12.19 / 32
p0 −99.95 ± 0.4091
−90
−92
−94
−96
−98
−100
−102
−104
−106
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −17.14
Std Dev 40.58
1
0.5
0
−0.5
−1

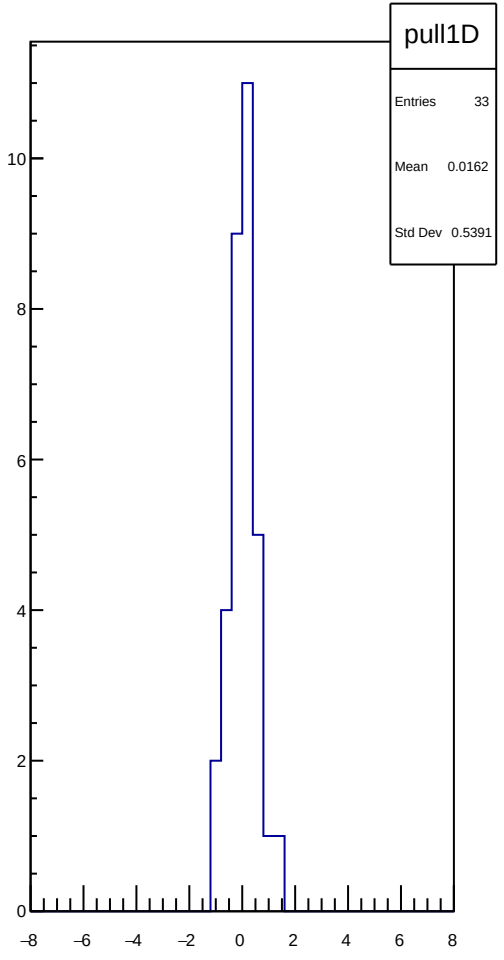

pull1D
Entries 33
Mean 0.01567
Std Dev 0.6076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

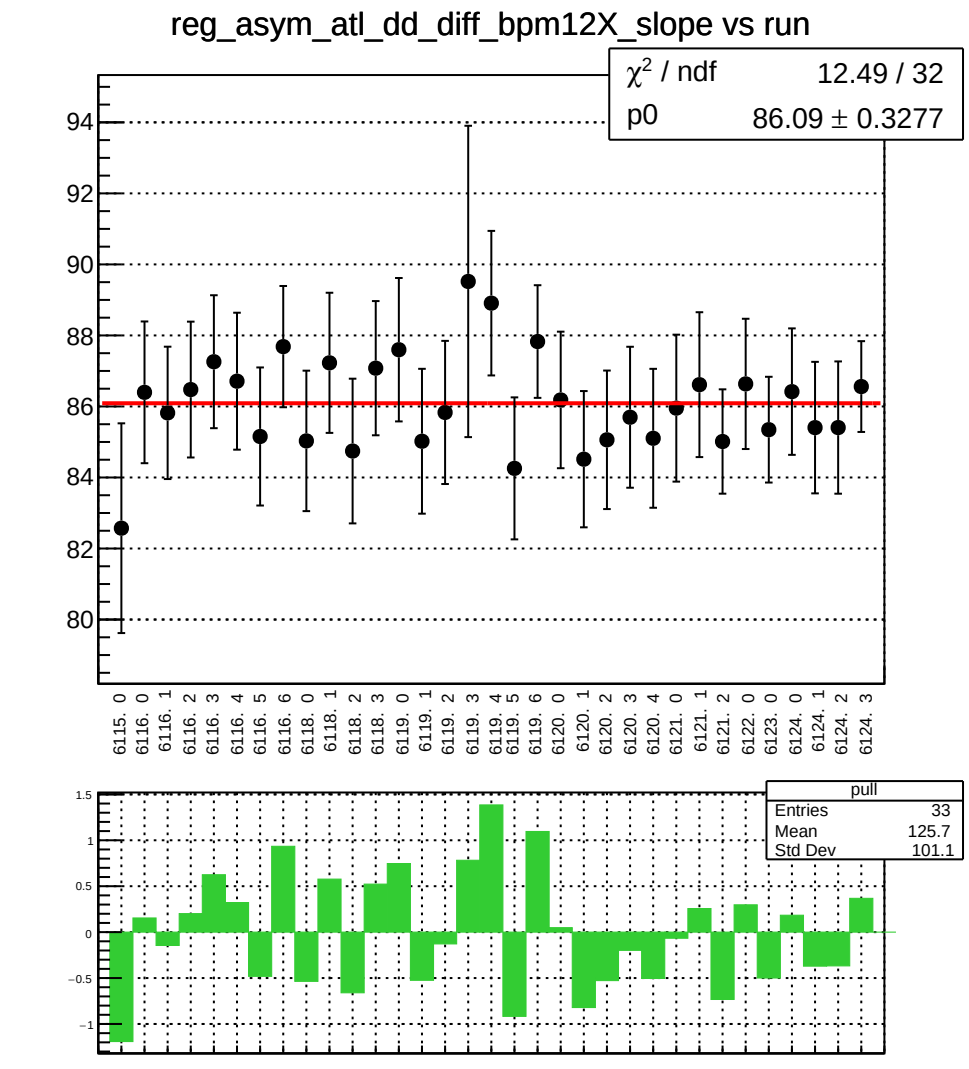

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.536 / 32
p0 214.2 ± 6.435
400
350
300
250
200
150
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 53.06
Std Dev 40.44
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.01636
Std Dev 0.5373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

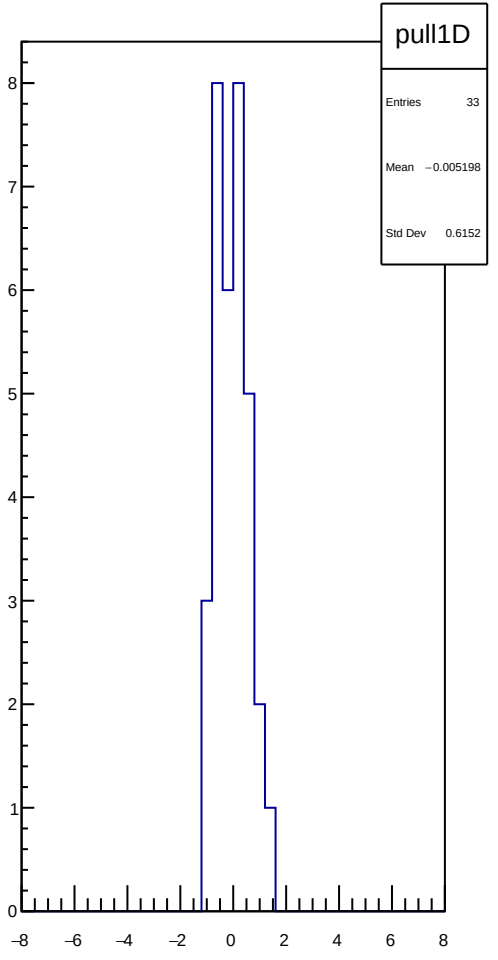

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.14 / 32
p0 19.45 ± 4.023
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −65.16
Std Dev 80.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0167
Std Dev 0.5541
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

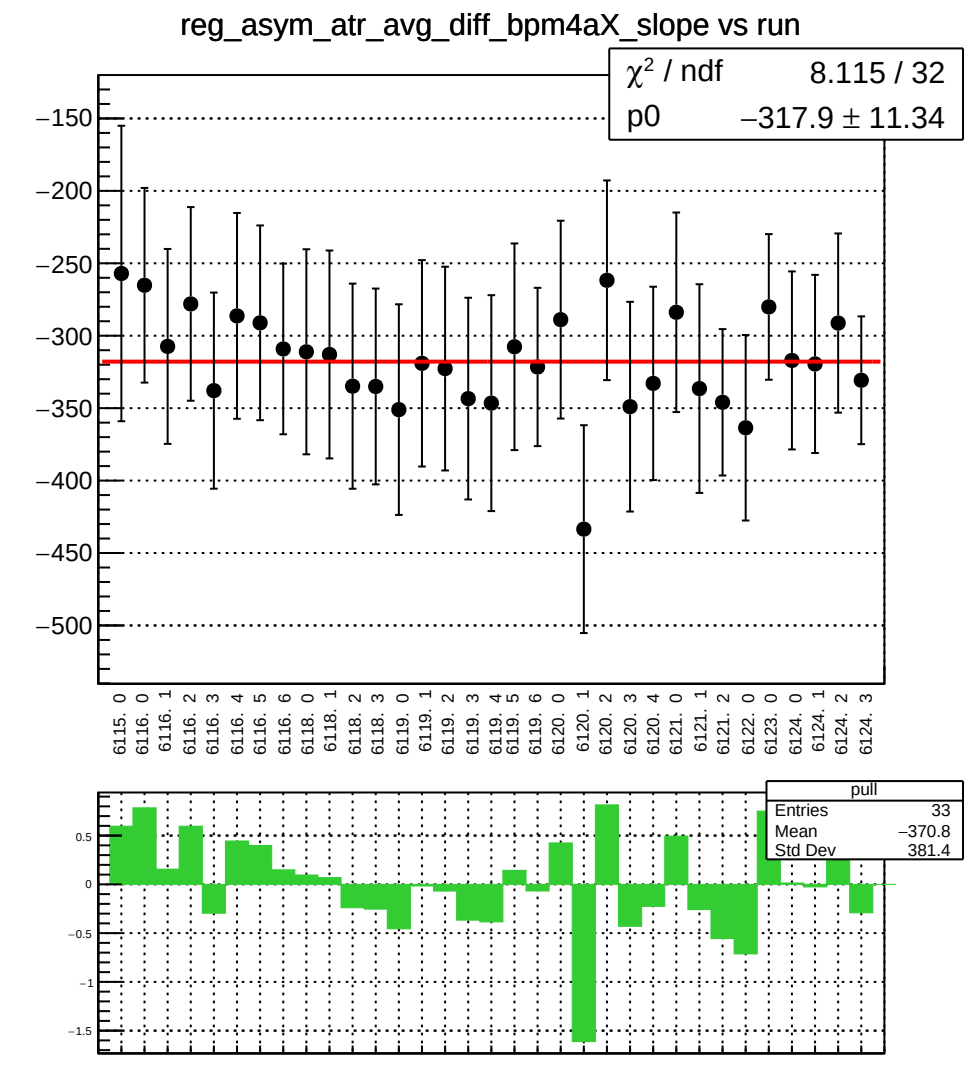

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.574 / 32
p0 −220.4 ± 7.488
−100
−150
−200
−250
−300
−350
−400
−450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 51.44
Std Dev 37.74
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.01828
Std Dev 0.5383
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

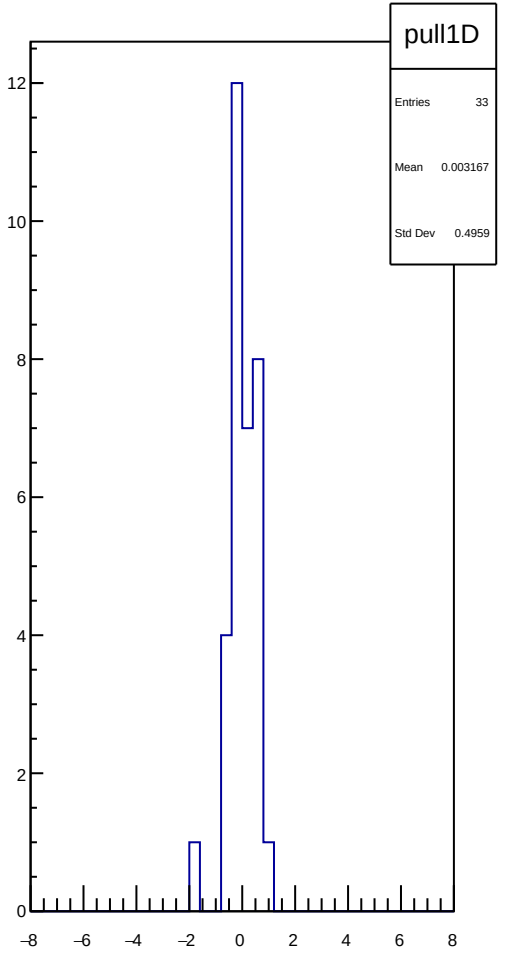

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.599 / 32
p0 −82.01± 4.298
−20
−40
−60
−80
−100
−120
−140
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −78.12
Std Dev 94.55
1.5
1
0.5
0
−0.5
−1

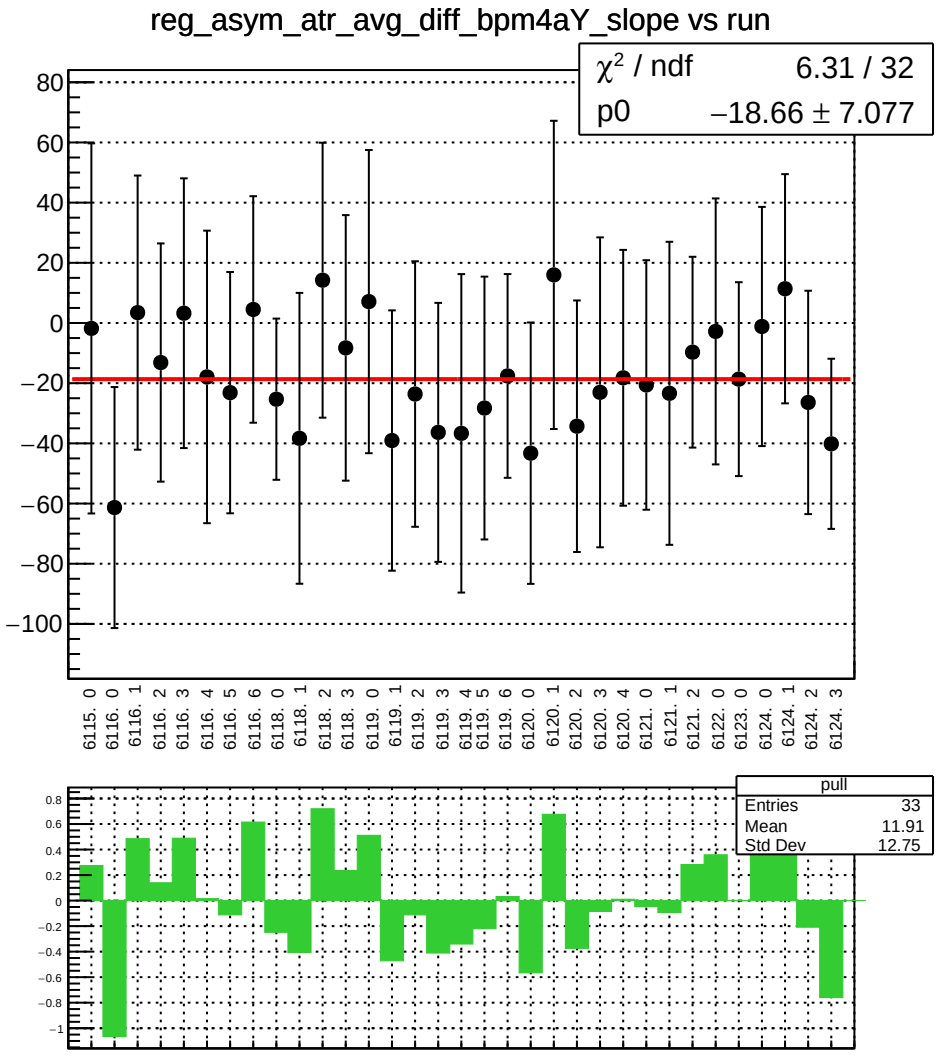

pull1D
Entries 33
Mean 0.0162
Std Dev 0.5391
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

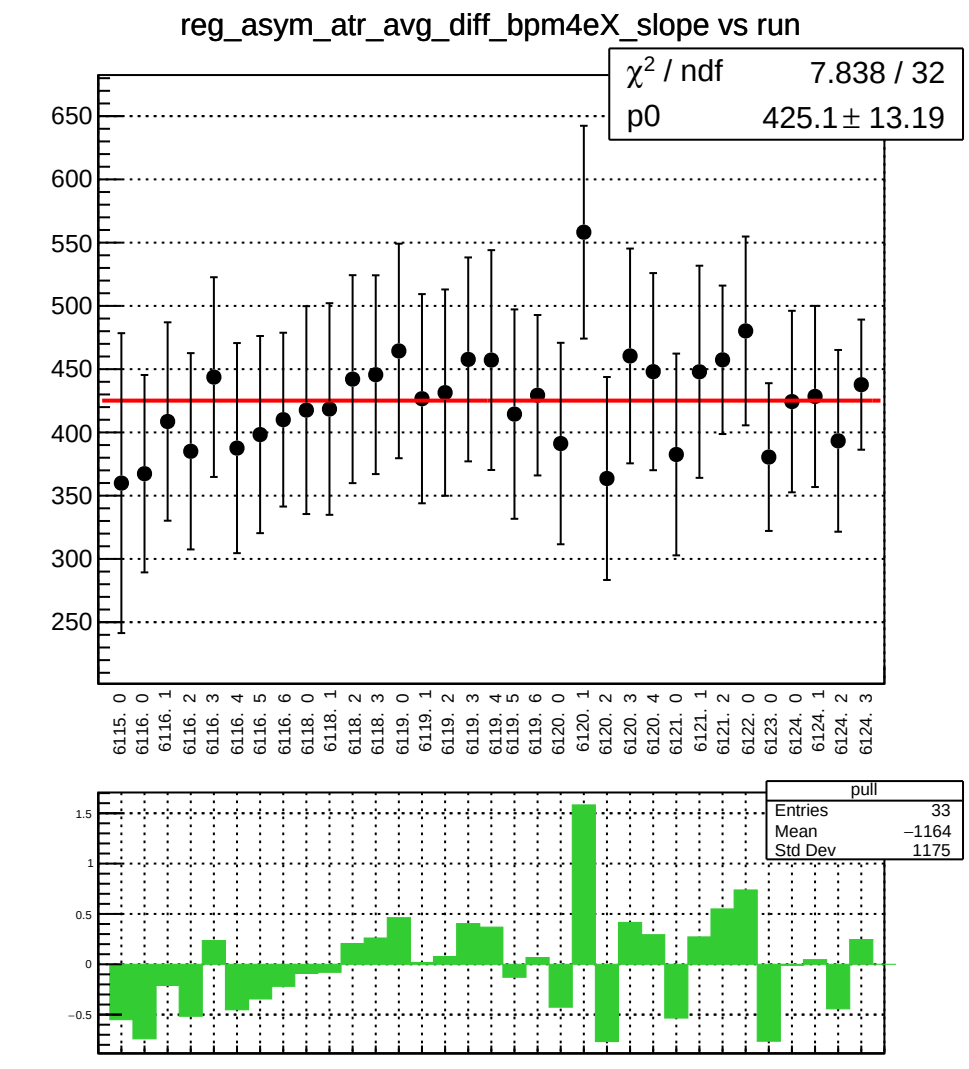

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 12.49 / 32
p0 86.09 ± 0.3277
94
92
90
88
86
84
82
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 125.7
Std Dev 101.1
1.5
1
0.5
0
−0.5
−1

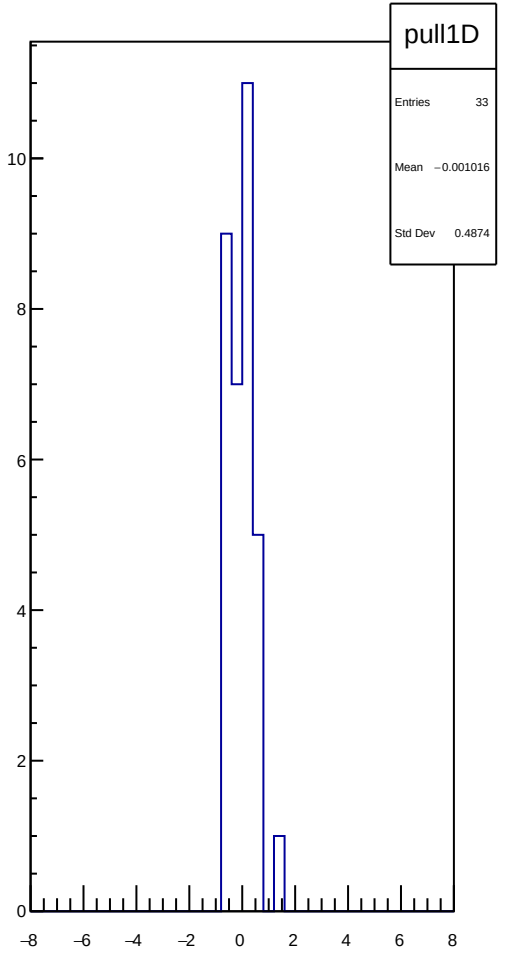

pull1D
Entries 33
Mean −0.005198
Std Dev 0.6152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

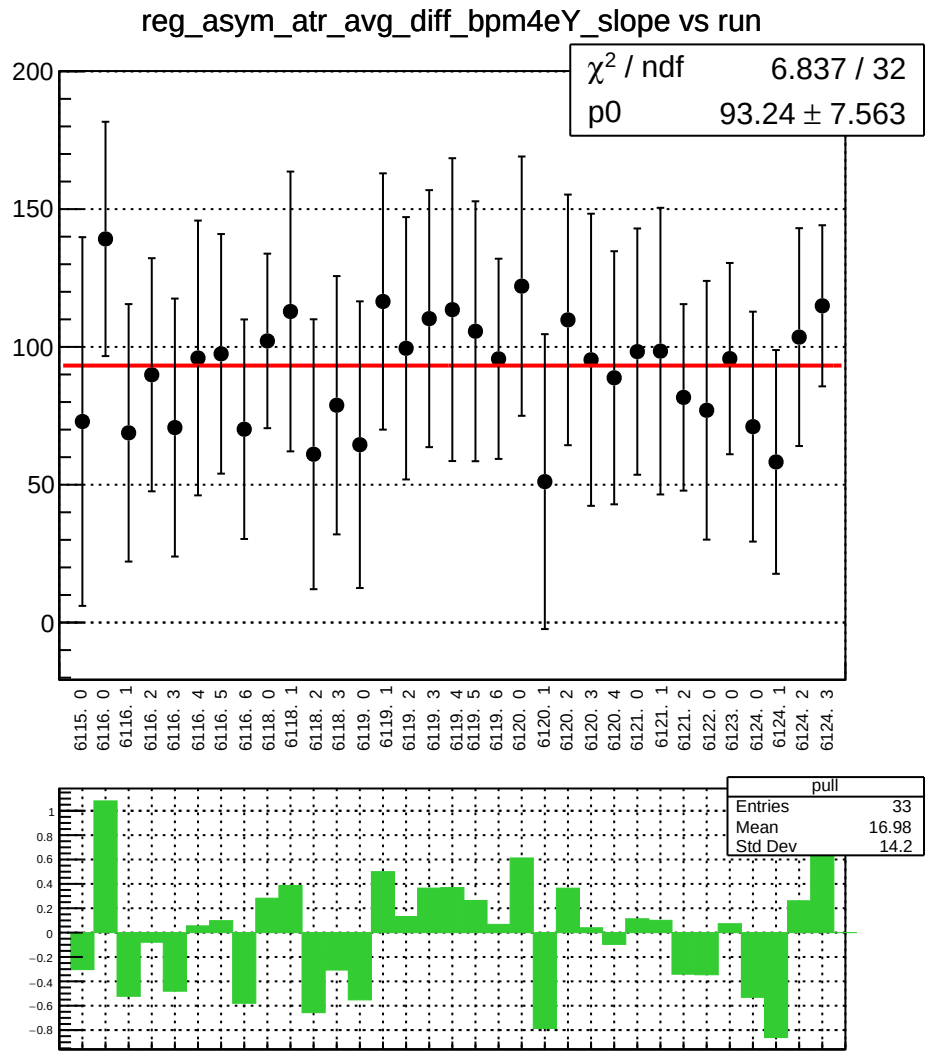

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 8.115 / 32
p0 −317.9 ± 11.34
−150
−200
−250
−300
−350
−400
−450
−500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −370.8
Std Dev 381.4
0.5
0
−0.5
−1
−1.5

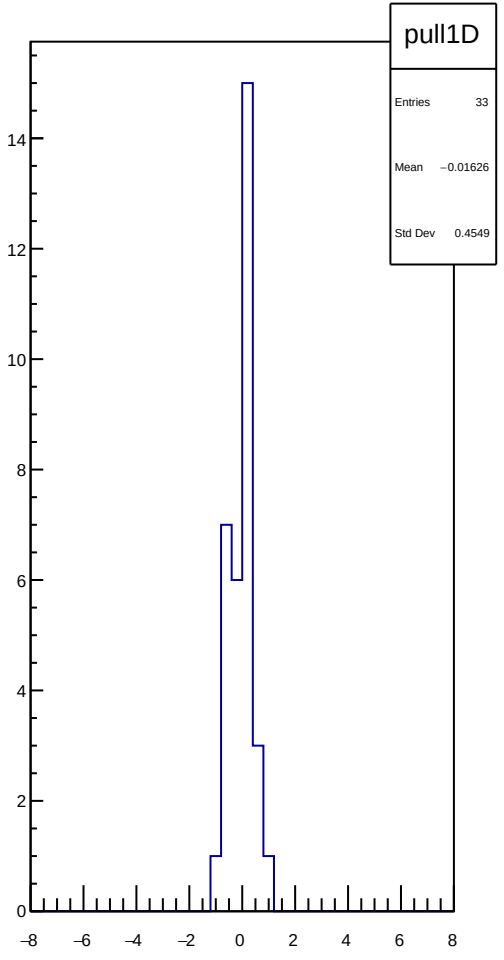

pull1D
Entries 33
Mean 0.003167
Std Dev 0.4959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

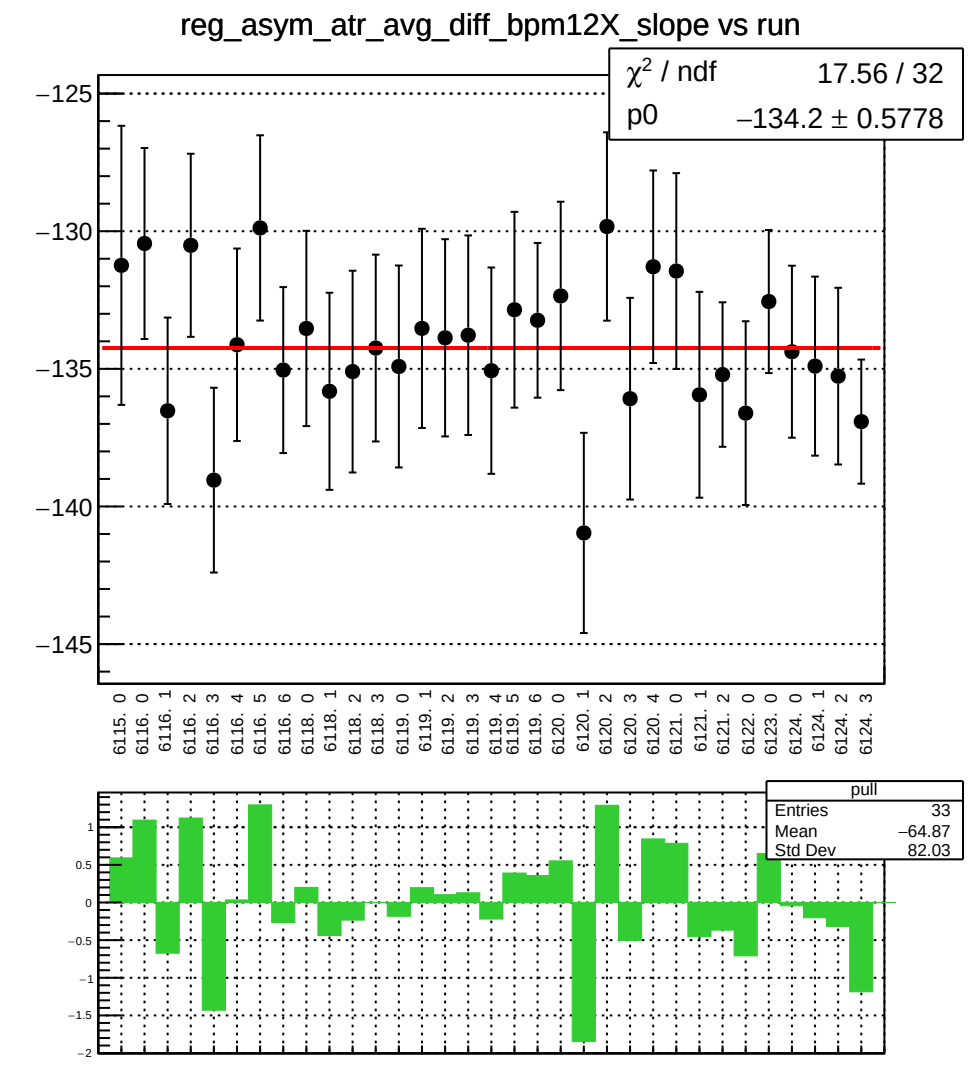

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.31 / 32
p0 −18.66 ± 7.077
pull
Entries 33
Mean 11.91
Std Dev 12.75
pull1D
Entries 33
Mean 0.01676
Std Dev 0.437

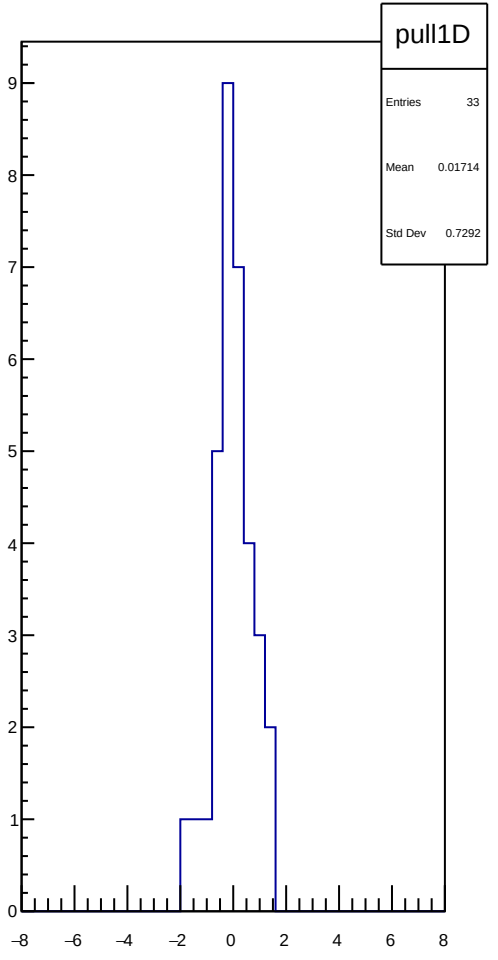

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.838 / 32
p0 425.1 ± 13.19
650
600
550
500
450
400
350
300
250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1164
Std Dev 1175
1.5
1
0.5
0
−0.5

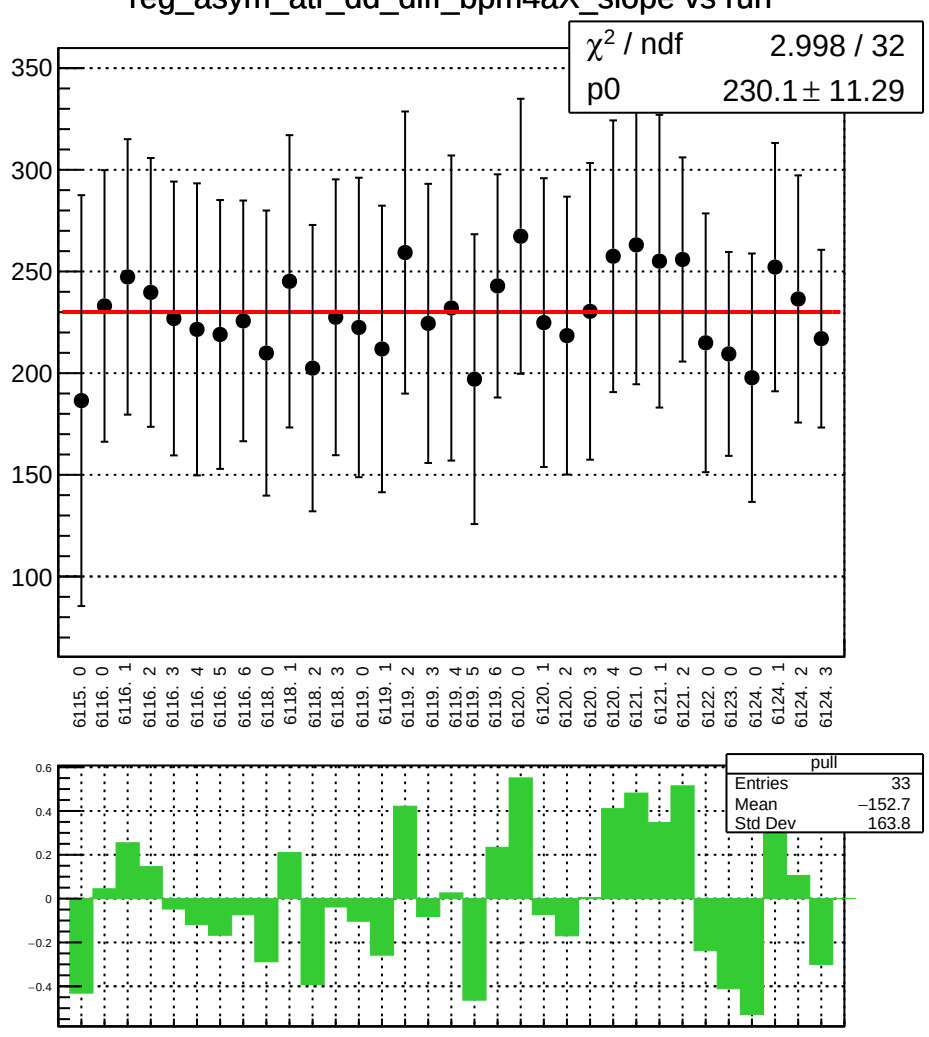

pull1D
Entries 33
Mean −0.001016
Std Dev 0.4874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

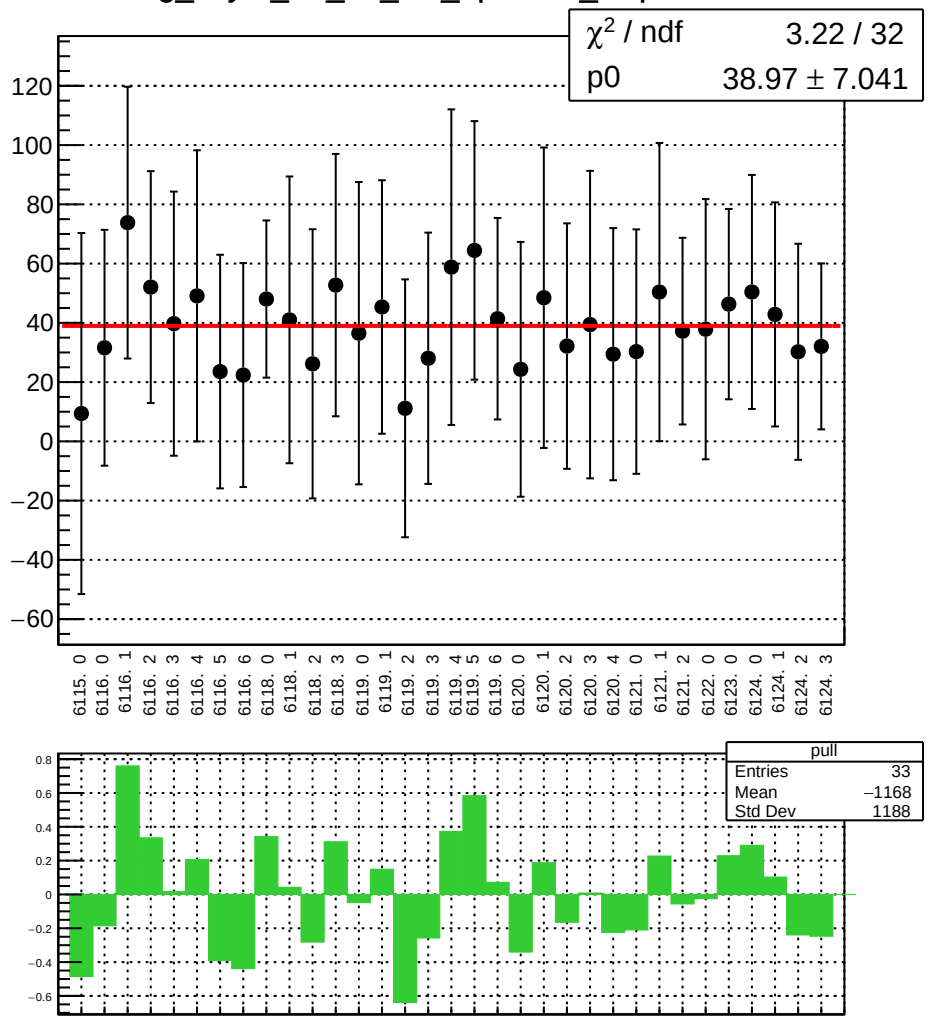

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.837 / 32
p0 93.24 ± 7.563
200
150
100
50
0
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.98
Std Dev 14.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

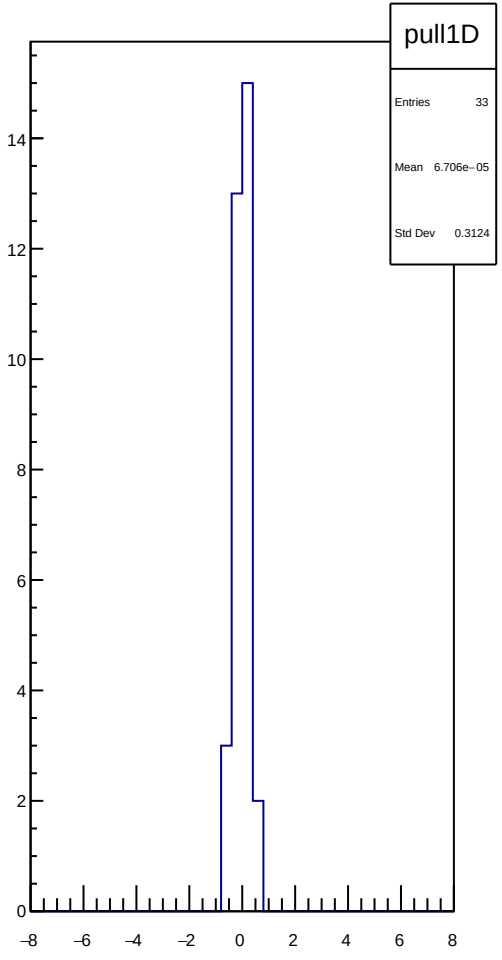

pull1D
Entries 33
Mean −0.01626
Std Dev 0.4549
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

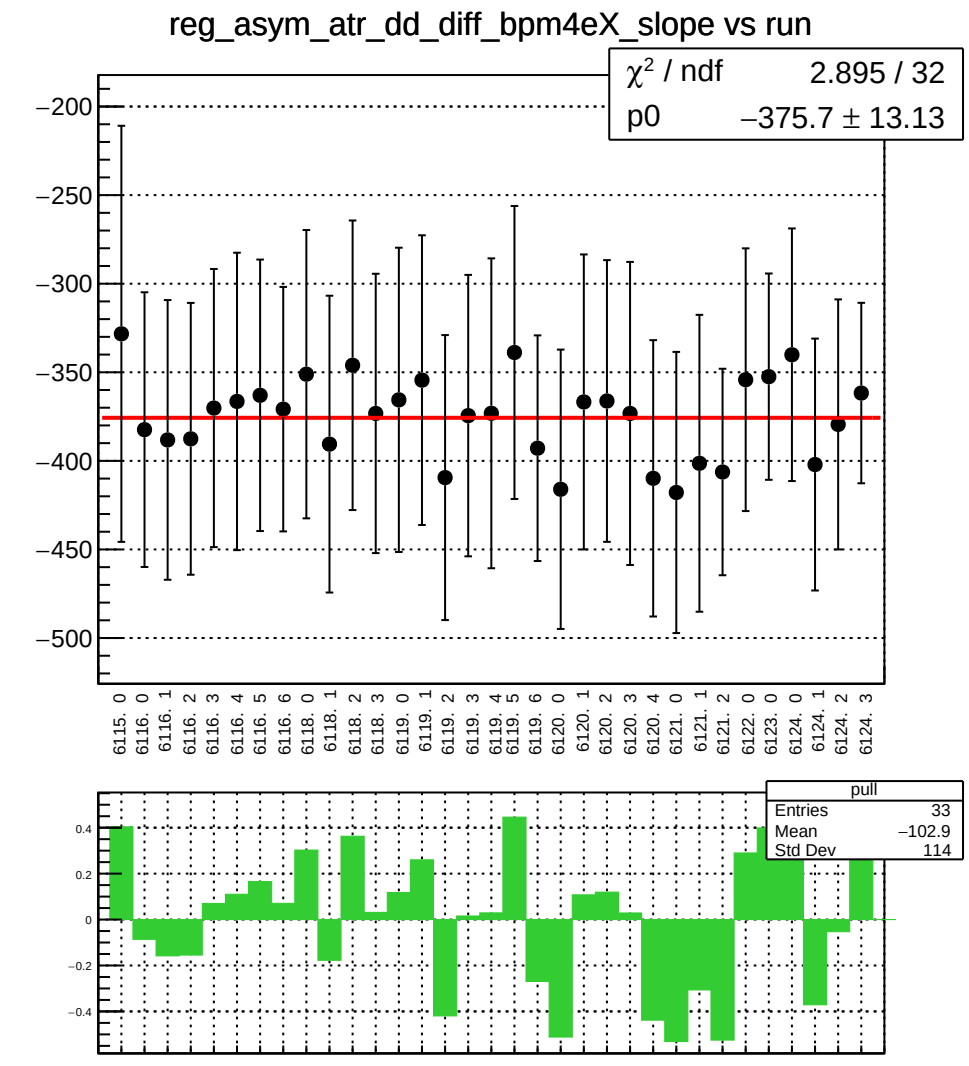

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 17.56 / 32
p0 −134.2 ± 0.5778
−125
−130
−135
−140
−145
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −64.87
Std Dev 82.03
1
0.5
0
−0.5
−1
−1.5
−2

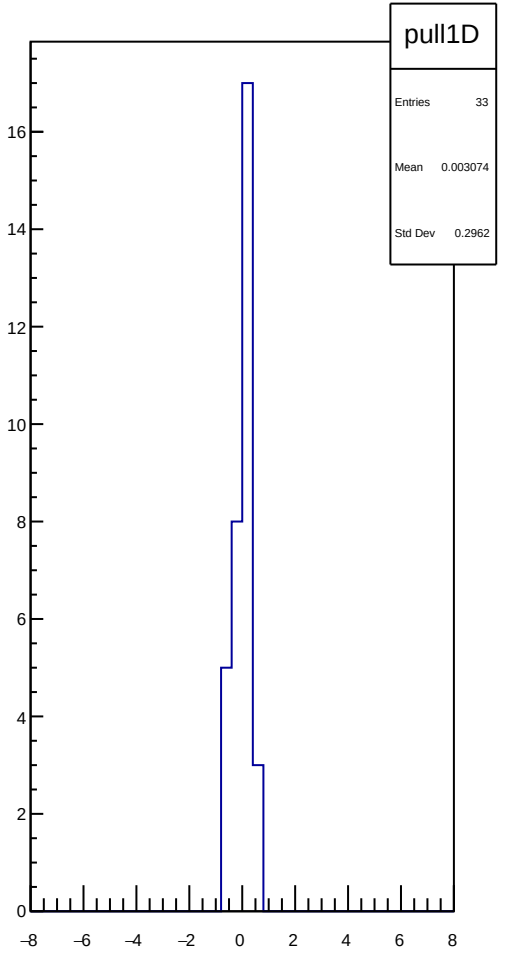

pull1D
Entries 33
Mean 0.01714
Std Dev 0.7292
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

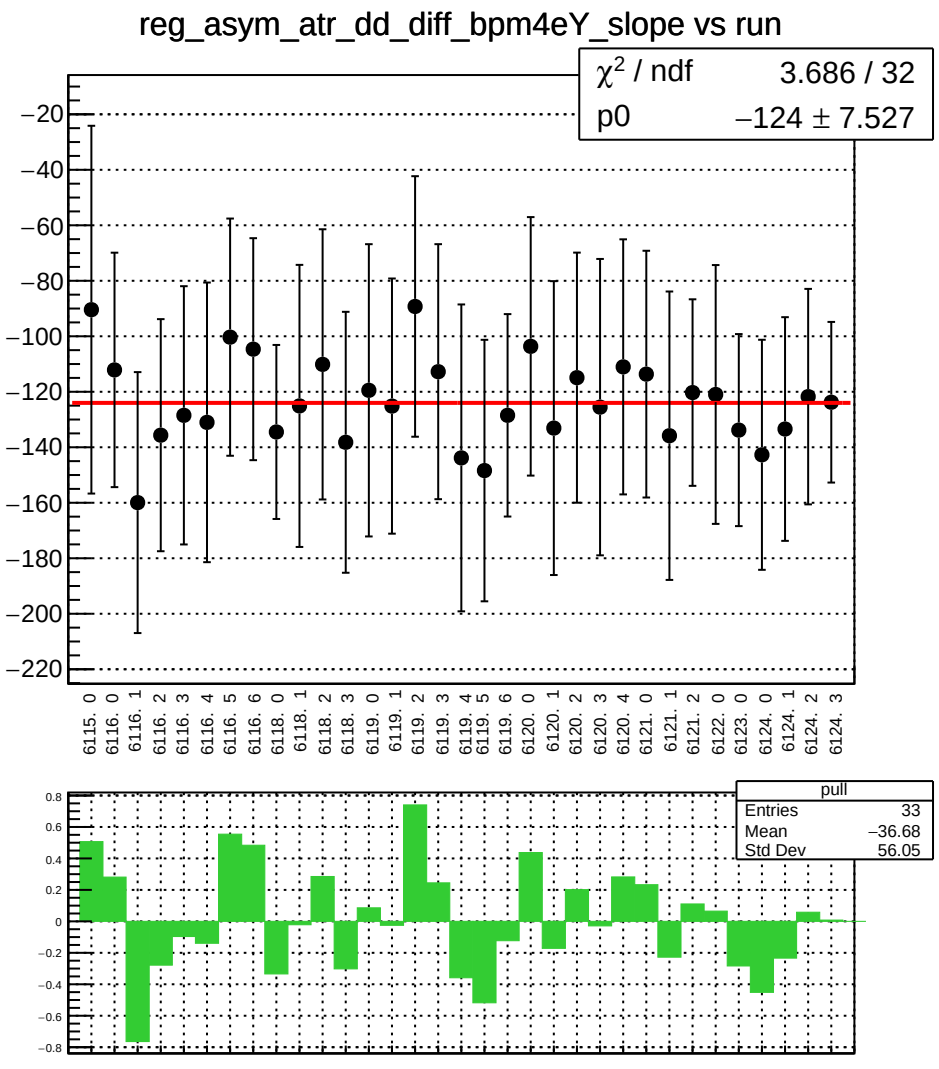

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 2.998 / 32
p0 230.1 ± 11.29
350
300
250
200
150
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −152.7
Std Dev 163.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean −0.002102
Std Dev 0.3014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

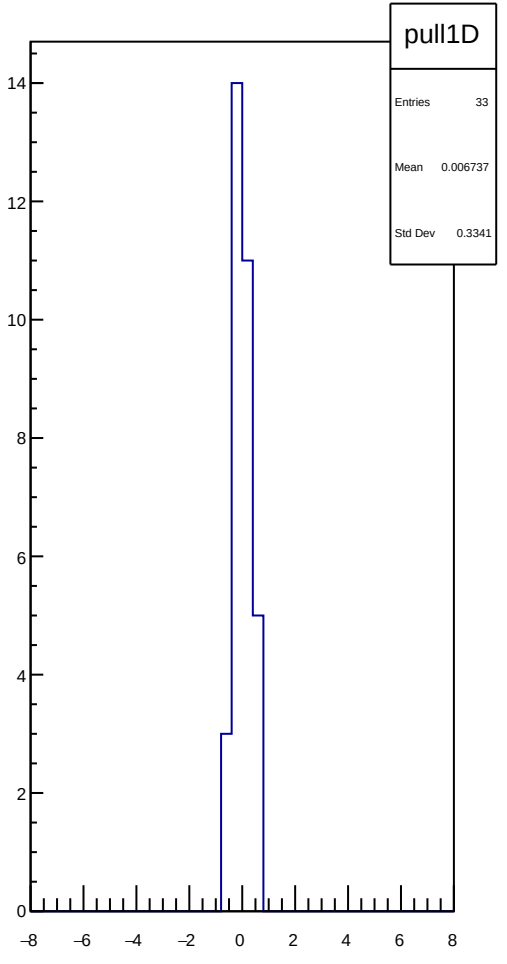

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.22 / 32
p0 38.97 ± 7.041
120
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1168
Std Dev 1188
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

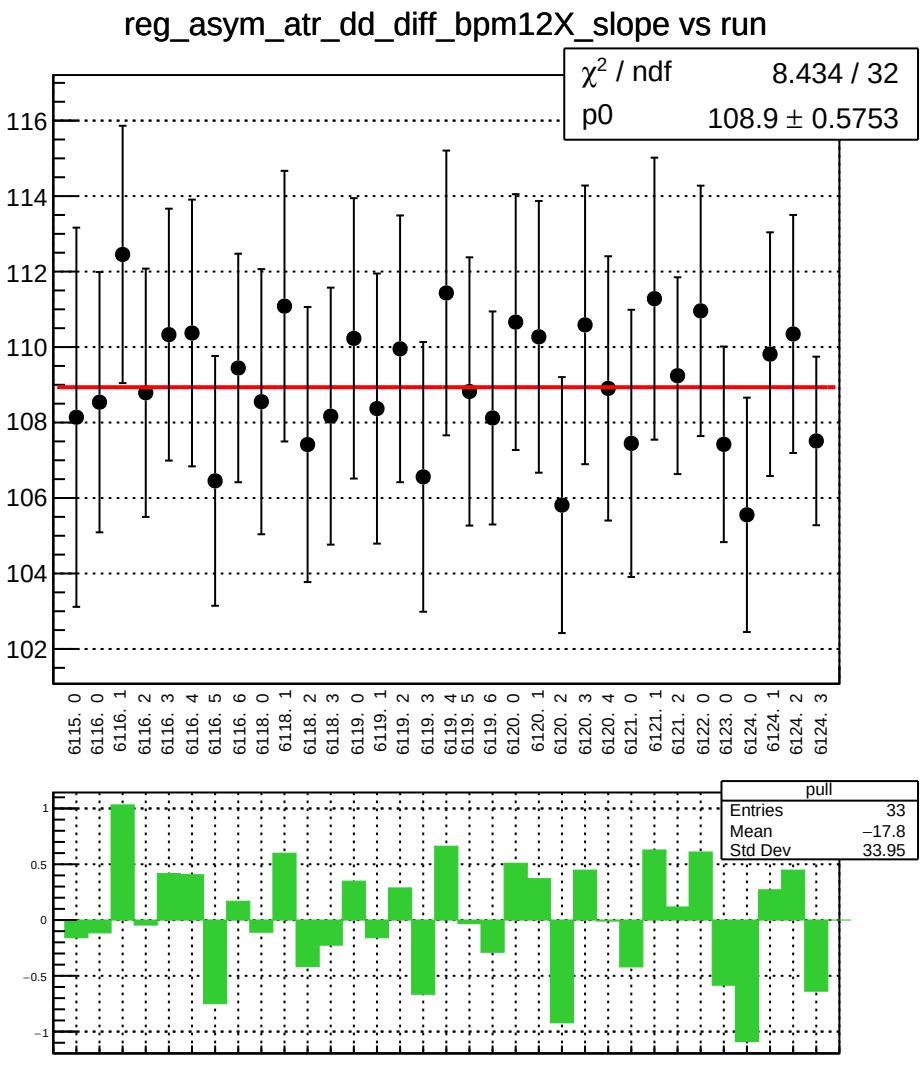

pull1D
Entries 33
Mean 6.706e−05
Std Dev 0.3124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

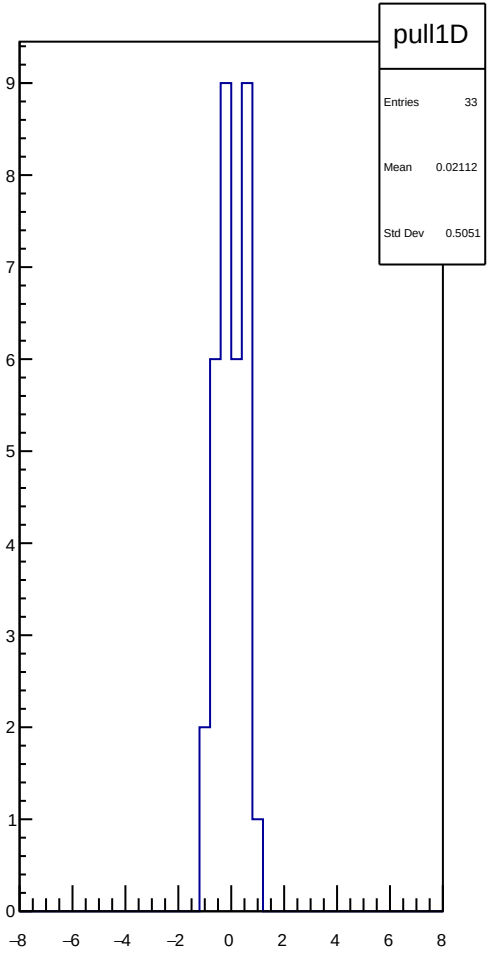

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.895 / 32
p0 −375.7 ± 13.13
−200
−250
−300
−350
−400
−450
−500
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −102.9
Std Dev 114
0.4
0.2
0
−0.2
−0.4

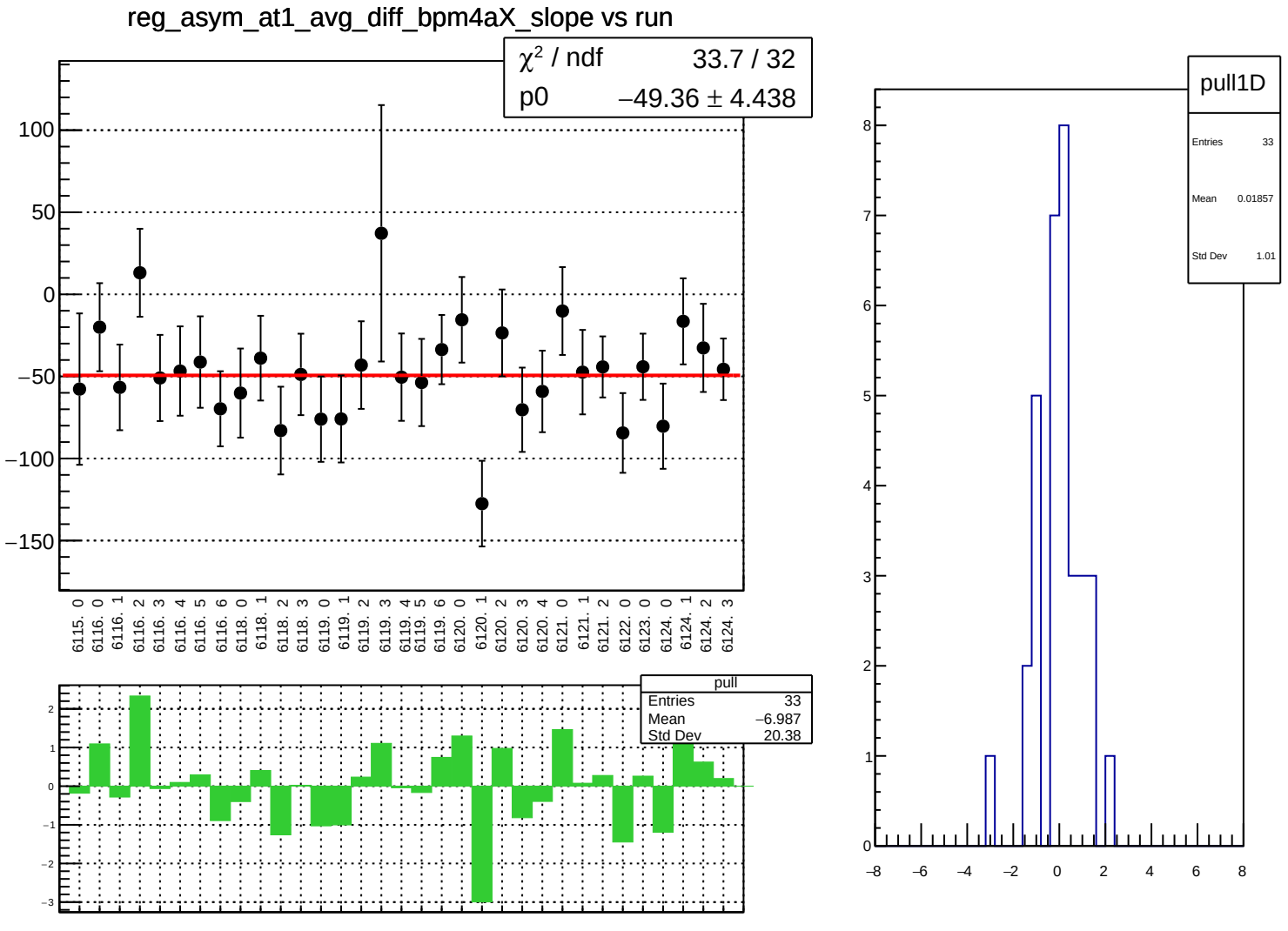

pull1D
Entries 33
Mean 0.003074
Std Dev 0.2962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

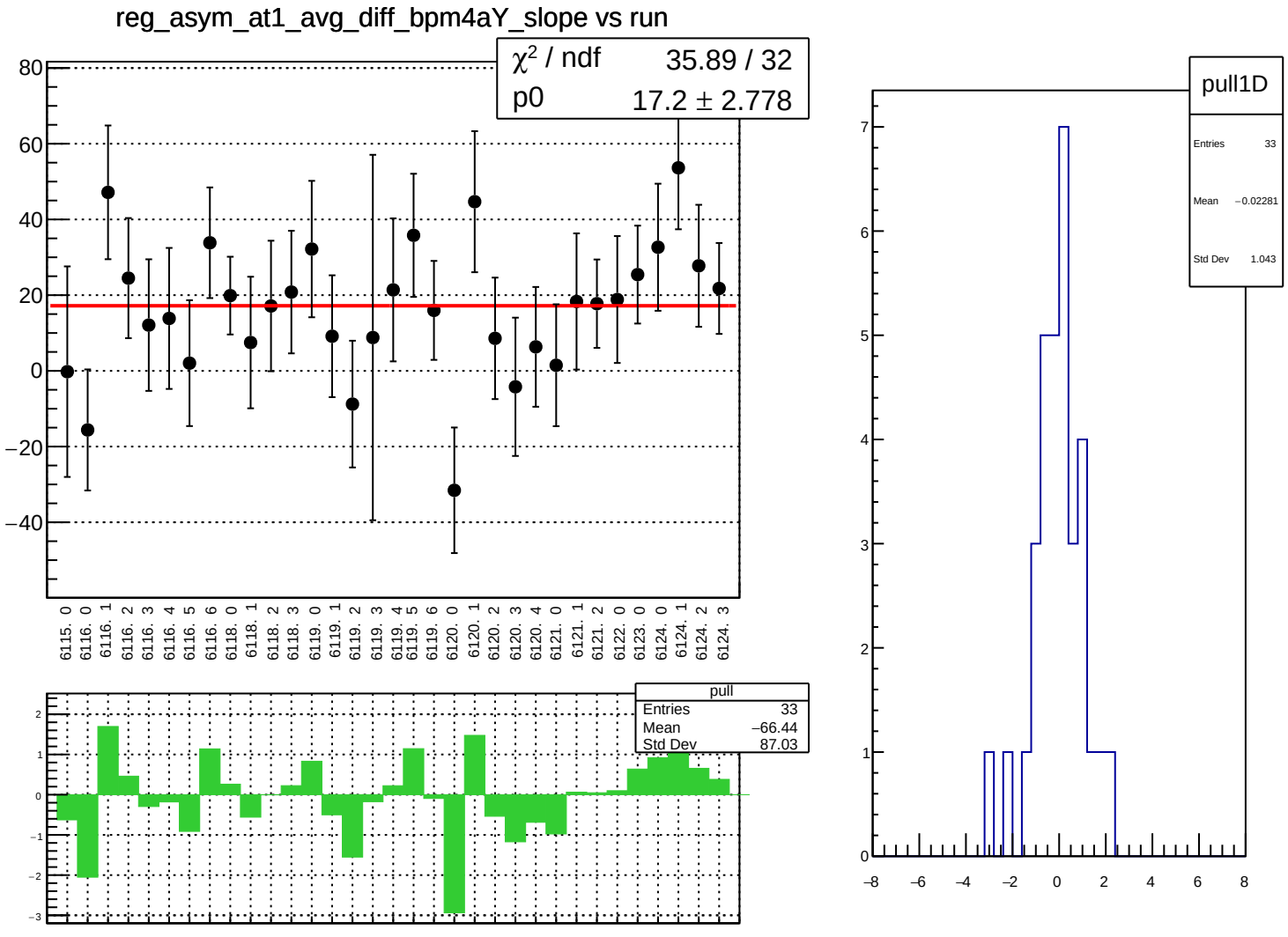

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.686 / 32
p0 −124 ± 7.527
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −36.68
Std Dev 56.05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

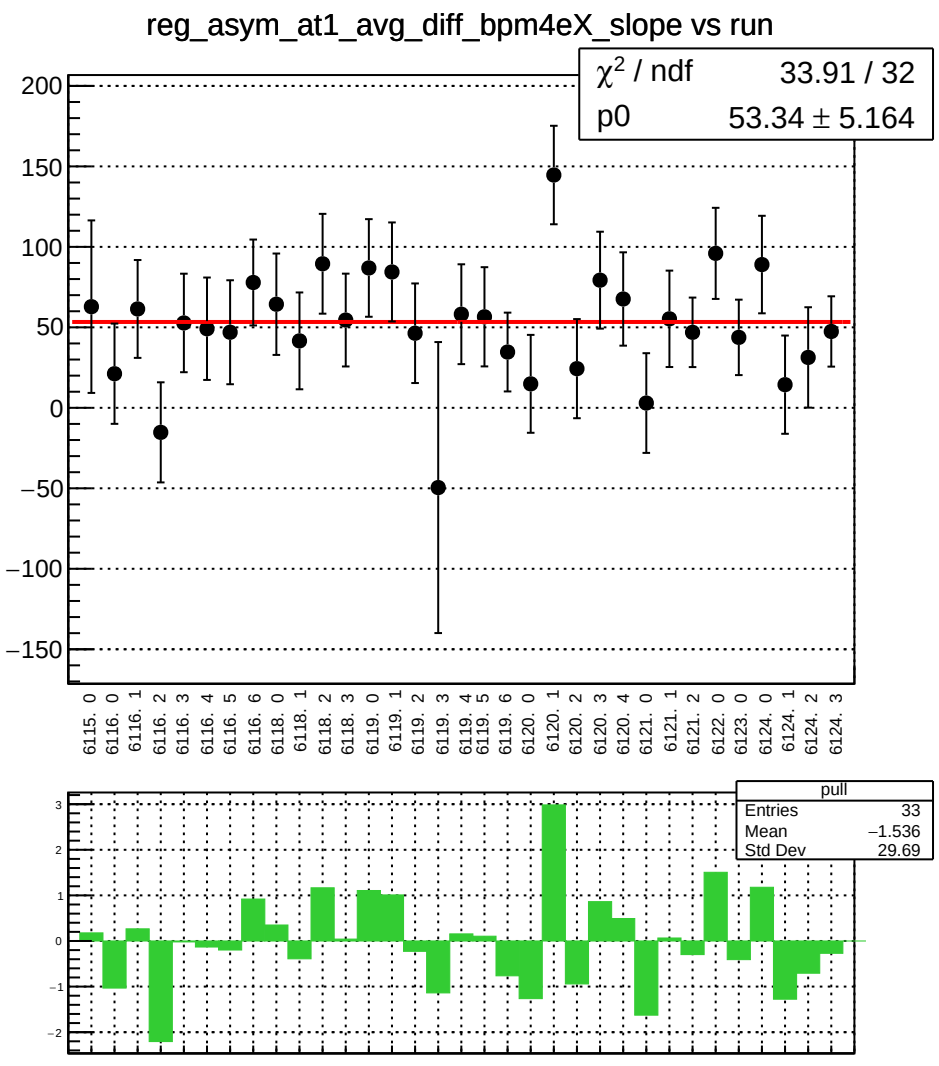

pull1D
Entries 33
Mean 0.006737
Std Dev 0.3341
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

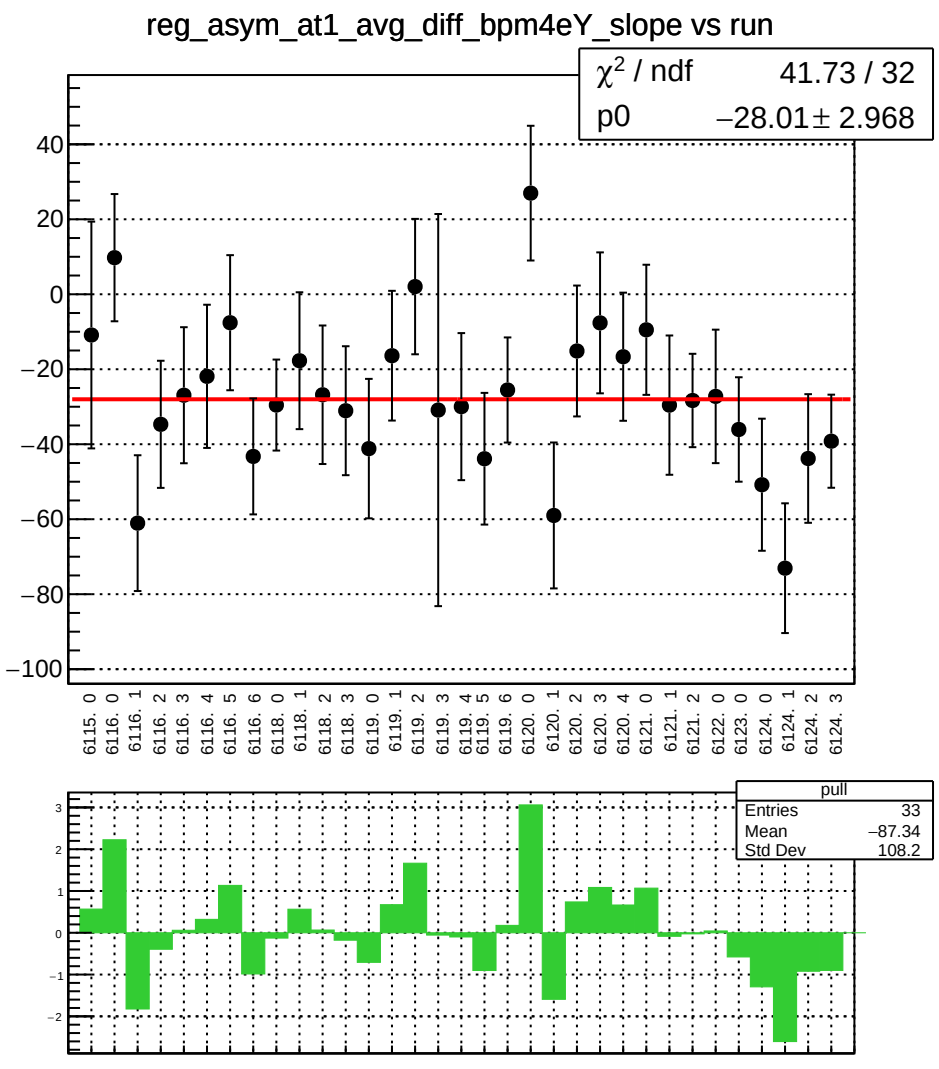

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 8.434 / 32
p0 108.9 ± 0.5753
116
114
112
110
108
106
104
102
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −17.8
Std Dev 33.95
1
0.5
0
−0.5
−1

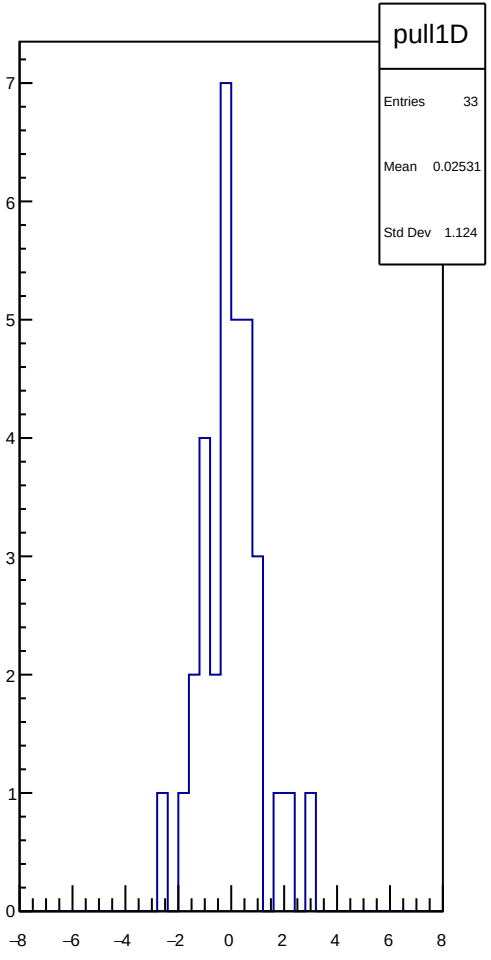

pull1D
Entries 33
Mean 0.02112
Std Dev 0.5051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

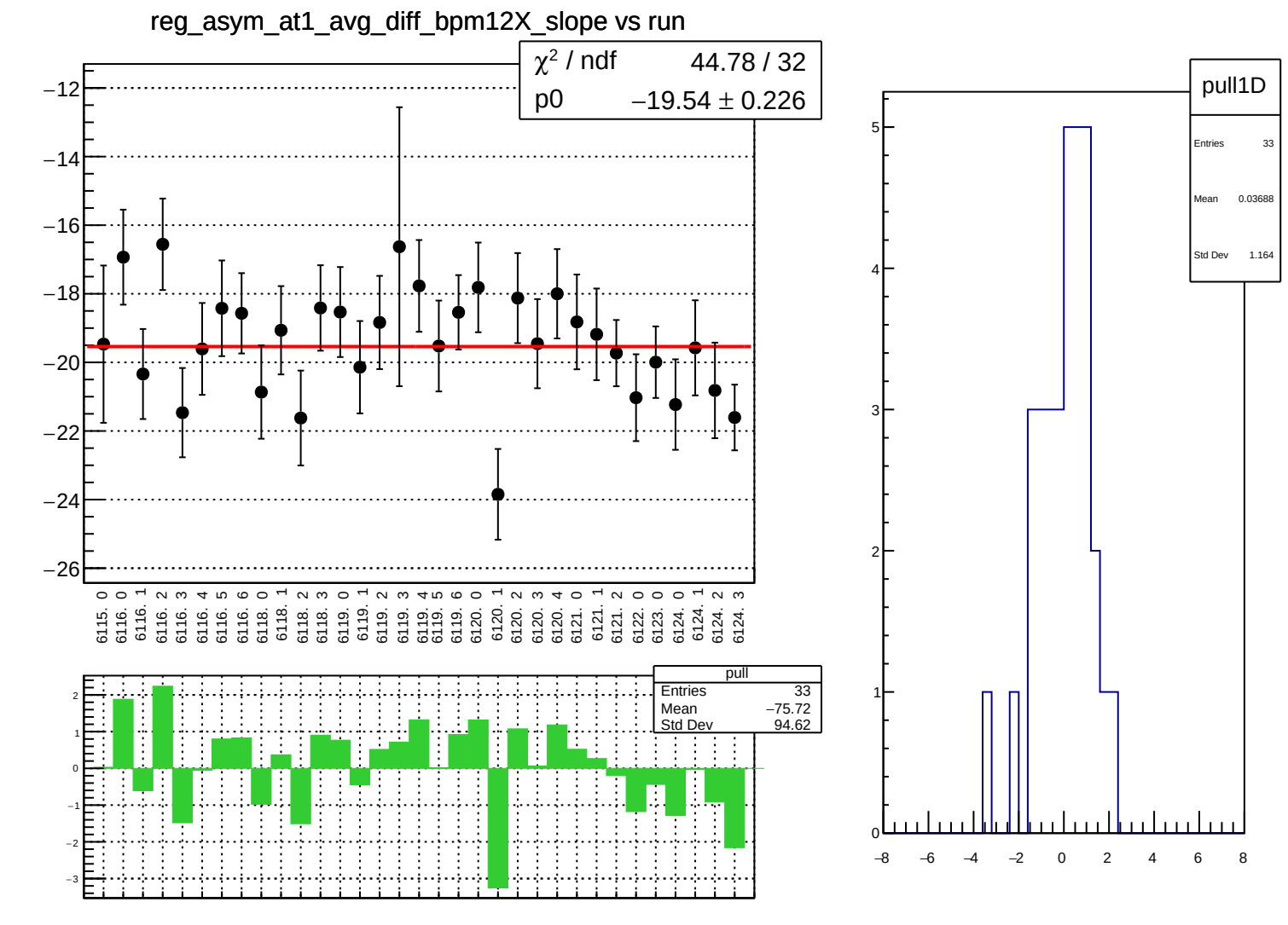

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.7 / 32
p0 −49.36 ± 4.438
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −6.987
Std Dev 20.38
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.01857
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

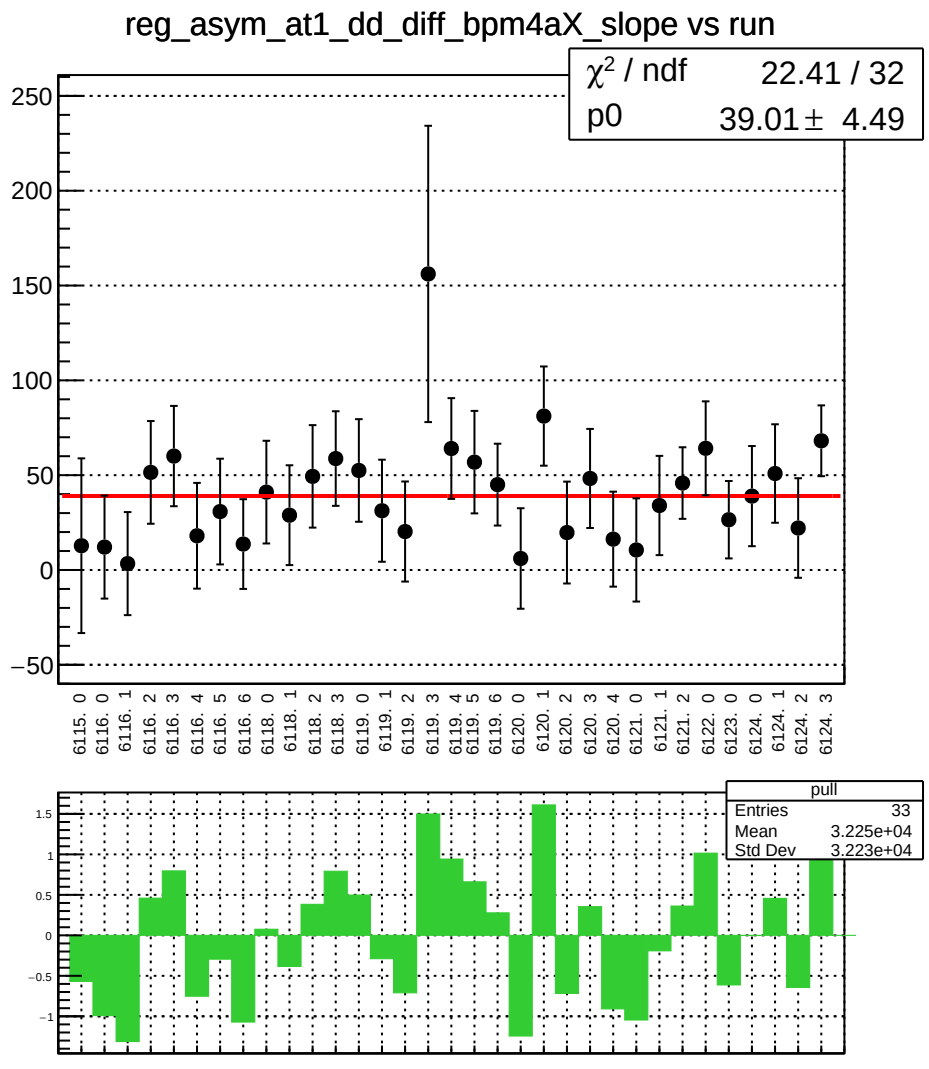

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.89 / 32
p0 17.2 ± 2.778
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −66.44
Std Dev 87.03
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.02281
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

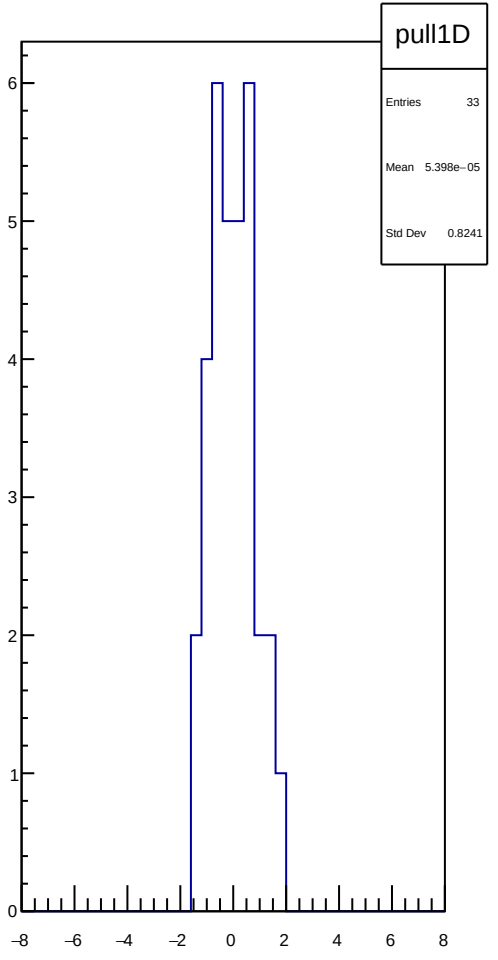

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.91 / 32
p0 53.34 ± 5.164
200
150
100
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −1.536
Std Dev 29.69
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01557
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

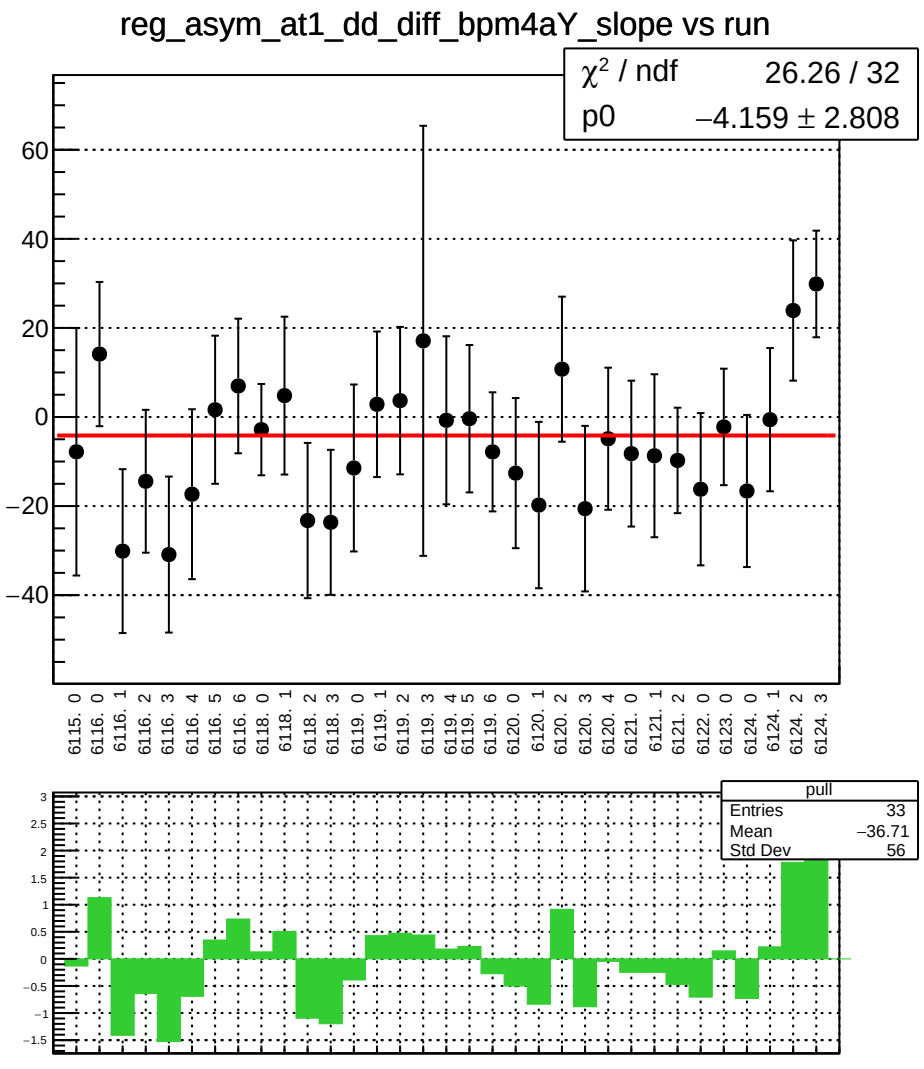

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.73 / 32
p0 −28.01± 2.968
40
20
0
−20
−40
−60
−80
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −87.34
Std Dev 108.2
3
2
1
0
−1
−2

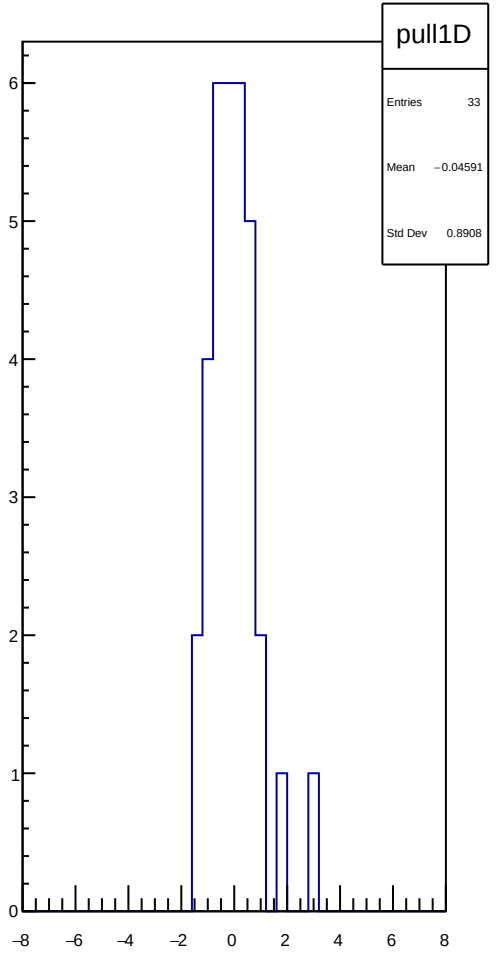

pull1D
Entries 33
Mean 0.02531
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

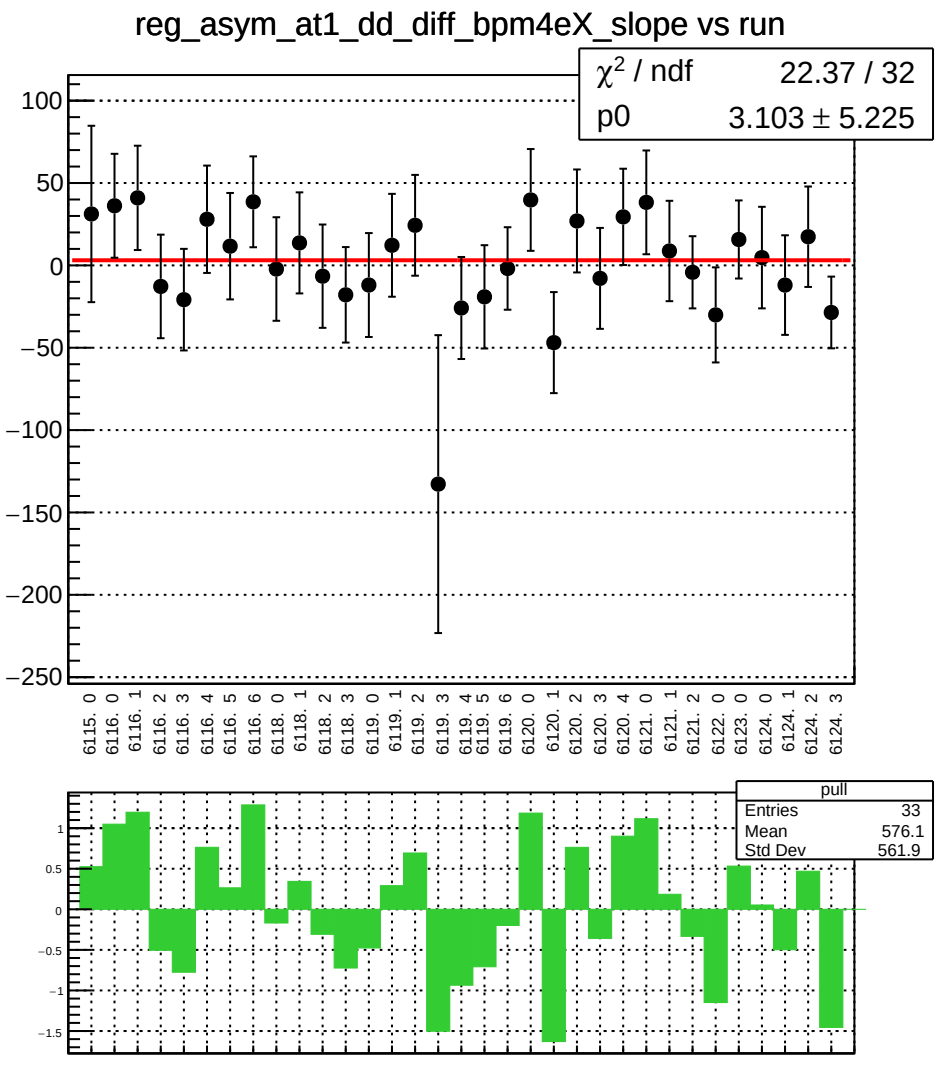

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 44.78 / 32
p0 −19.54 ± 0.226
−12
−14
−16
−18
−20
−22
−24
−26
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −75.72
Std Dev 94.62
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.03688
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

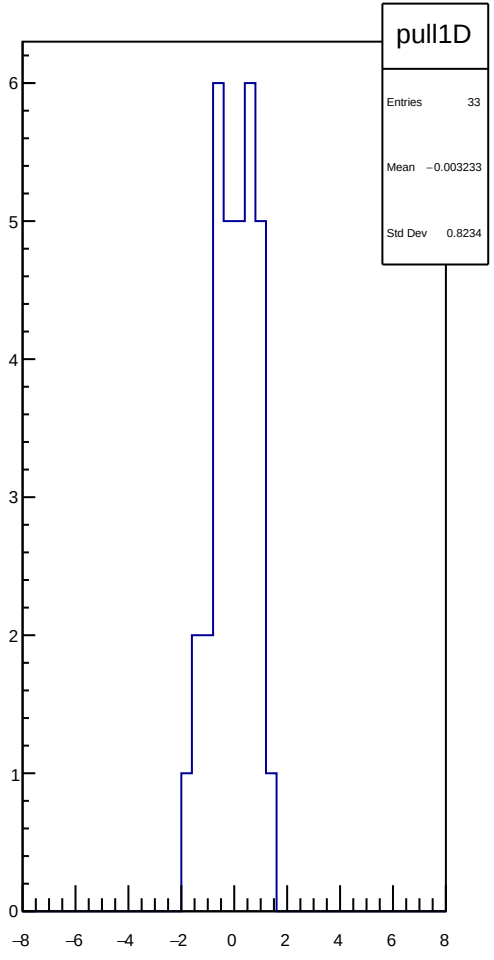

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 22.41 / 32
p0 39.01 ± 4.49
250
200
150
100
50
0
−50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 3.225e+04
Std Dev 3.223e+04
1.5
1
0.5
0
−0.5
−1

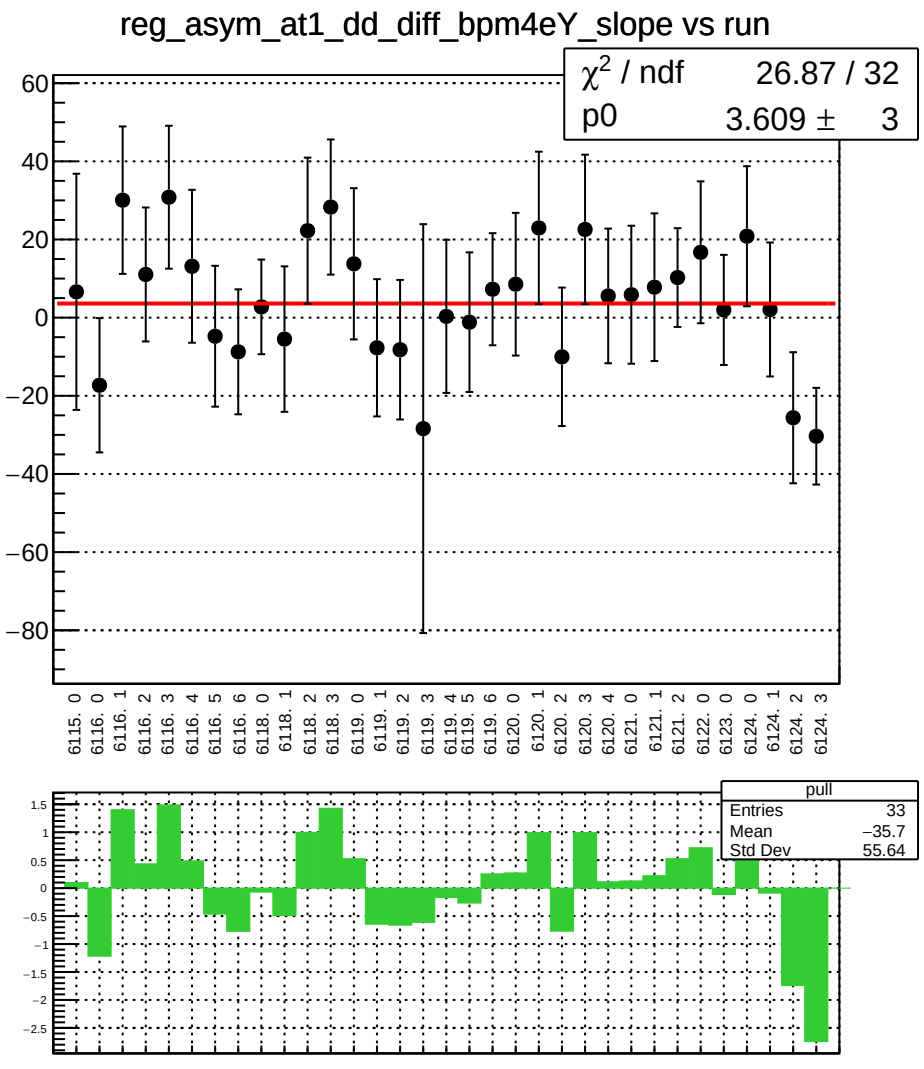

pull1D
Entries 33
Mean 5.398e−05
Std Dev 0.8241
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

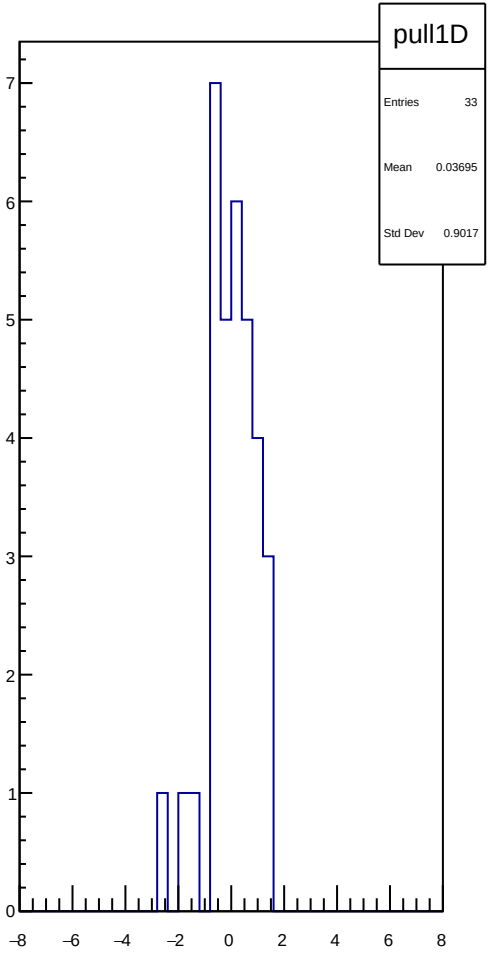

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.26 / 32
p0 −4.159 ± 2.808
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −36.71
Std Dev 56
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

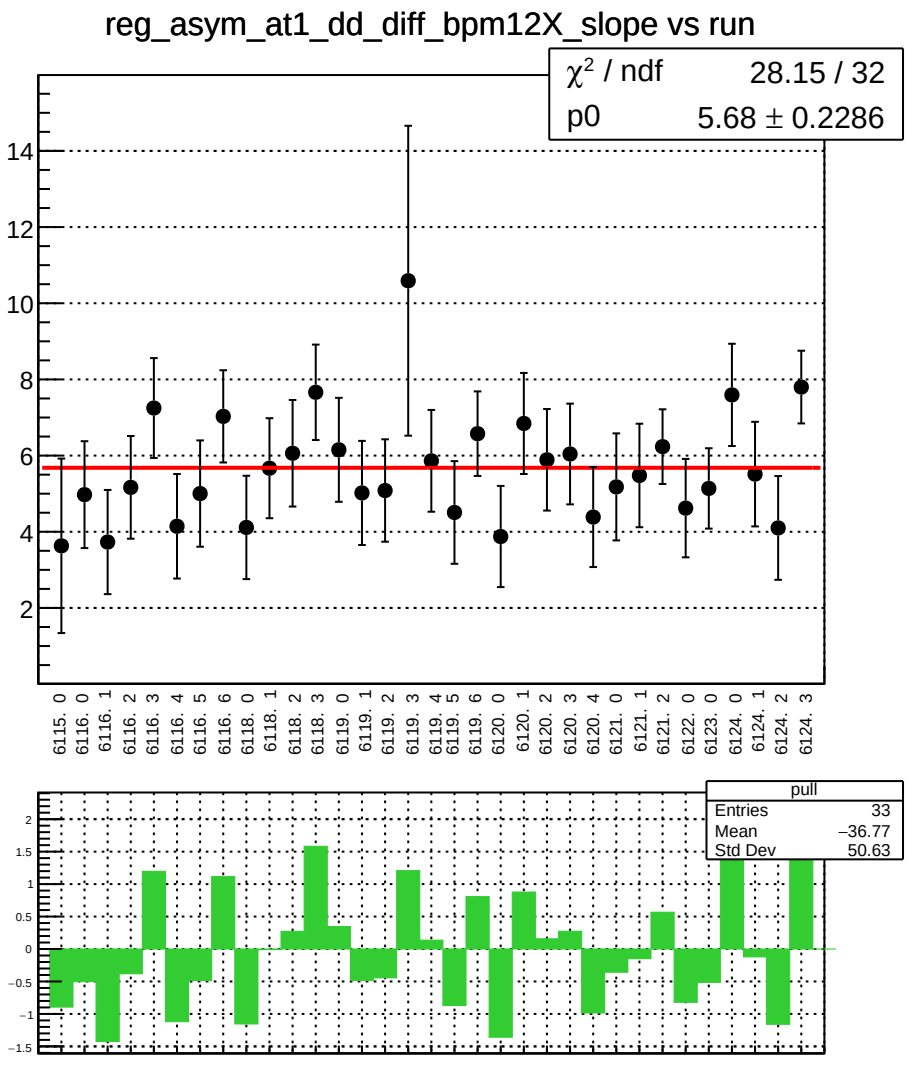

pull1D
Entries 33
Mean −0.04591
Std Dev 0.8908
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

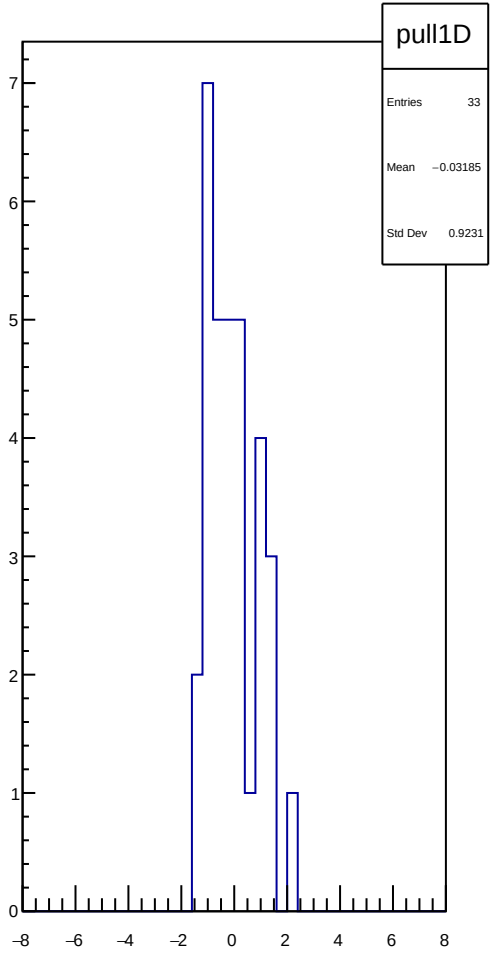

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.37 / 32
p0 3.103 ± 5.225
100
50
0
−50
−100
−150
−200
−250
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 576.1
Std Dev 561.9
1
0.5
0
−0.5
−1
−1.5

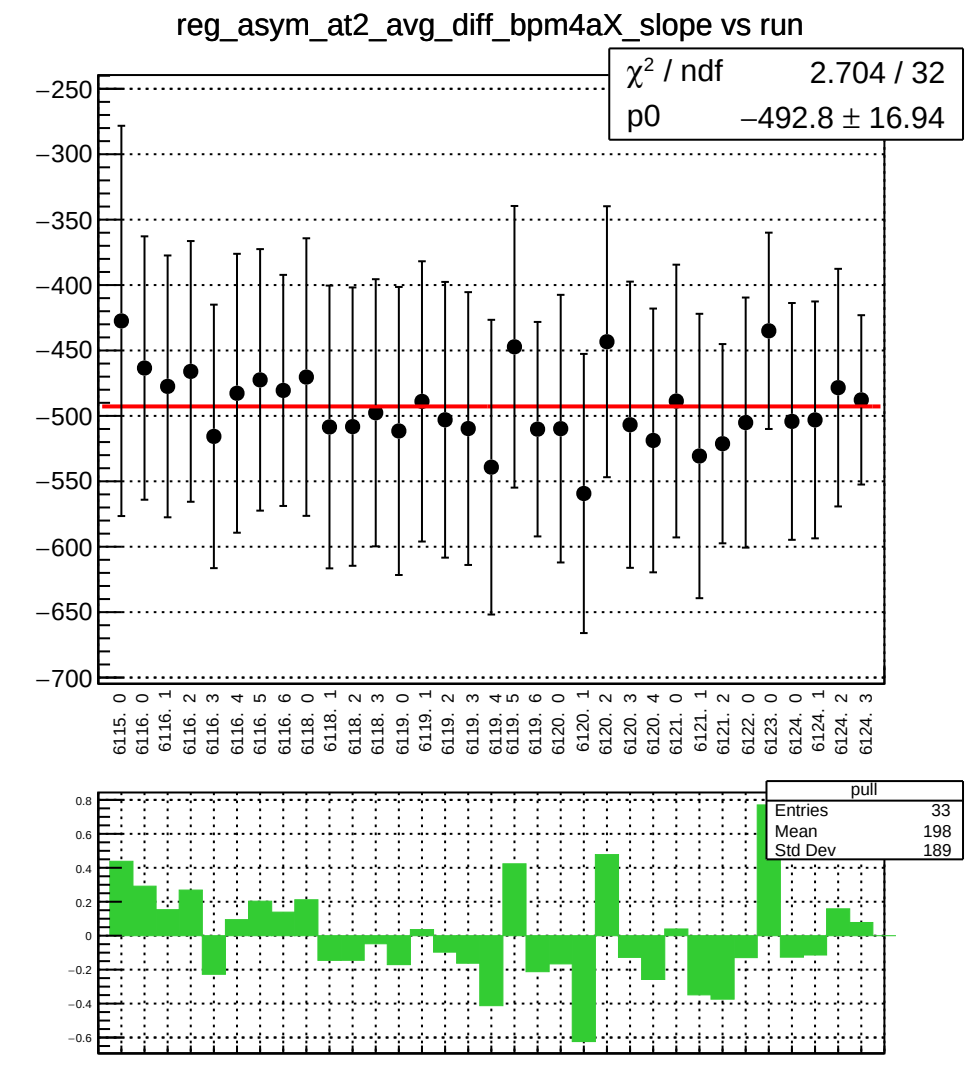

pull1D
Entries 33
Mean −0.003233
Std Dev 0.8234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

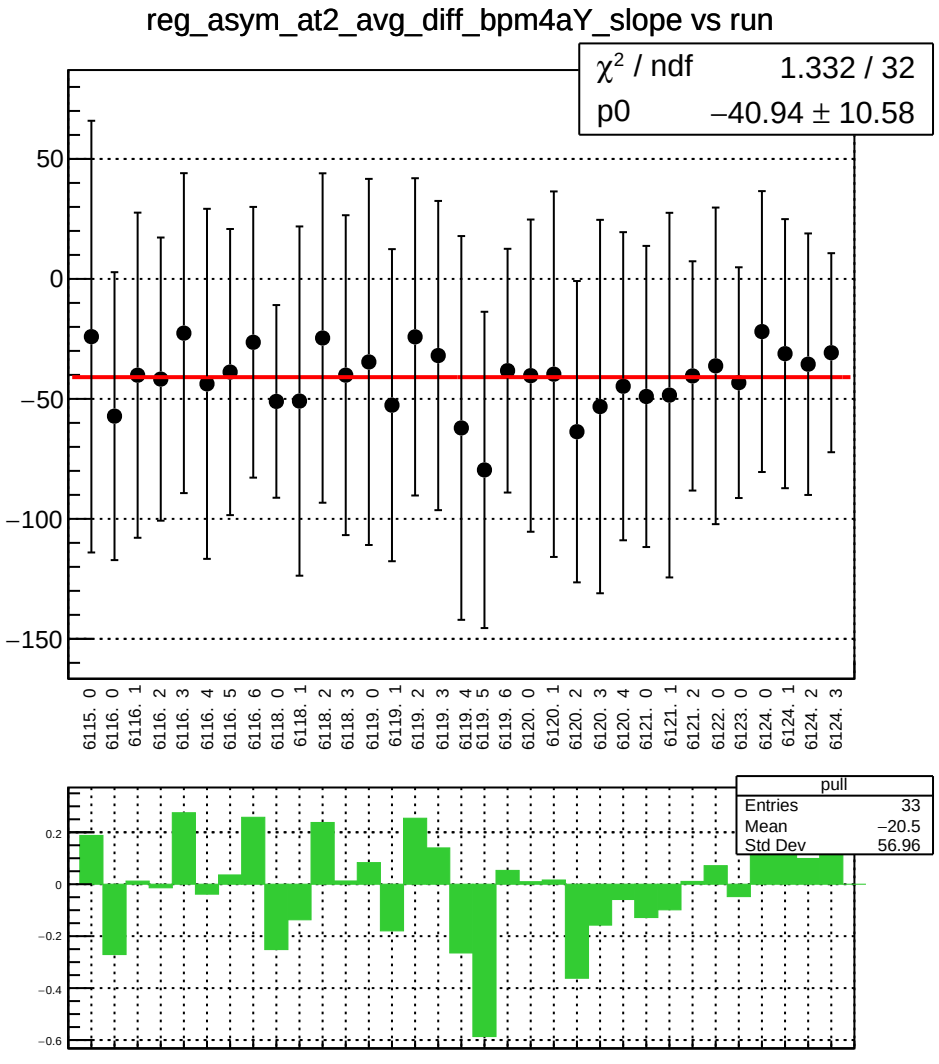

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.87 / 32
p0 3.609 ± 3
60
40
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −35.7
Std Dev 55.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

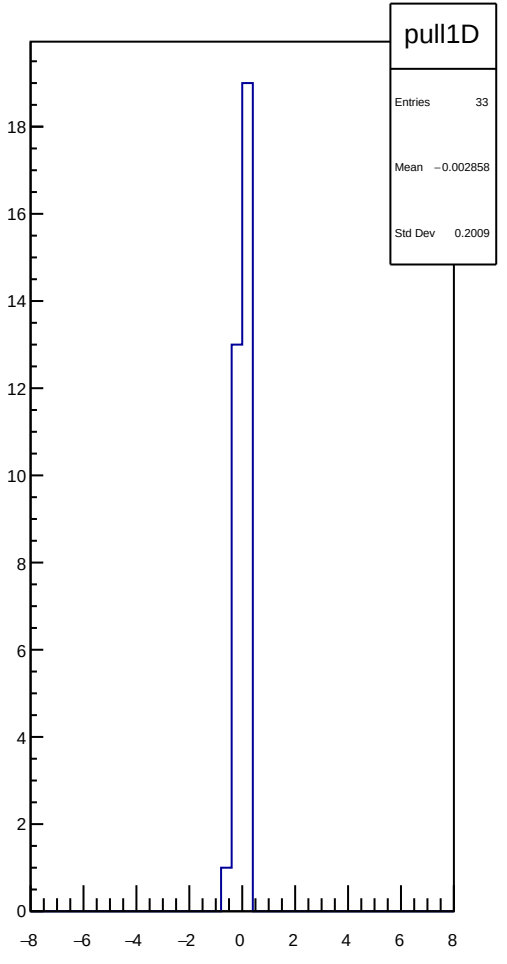

pull1D
Entries 33
Mean 0.03695
Std Dev 0.9017
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

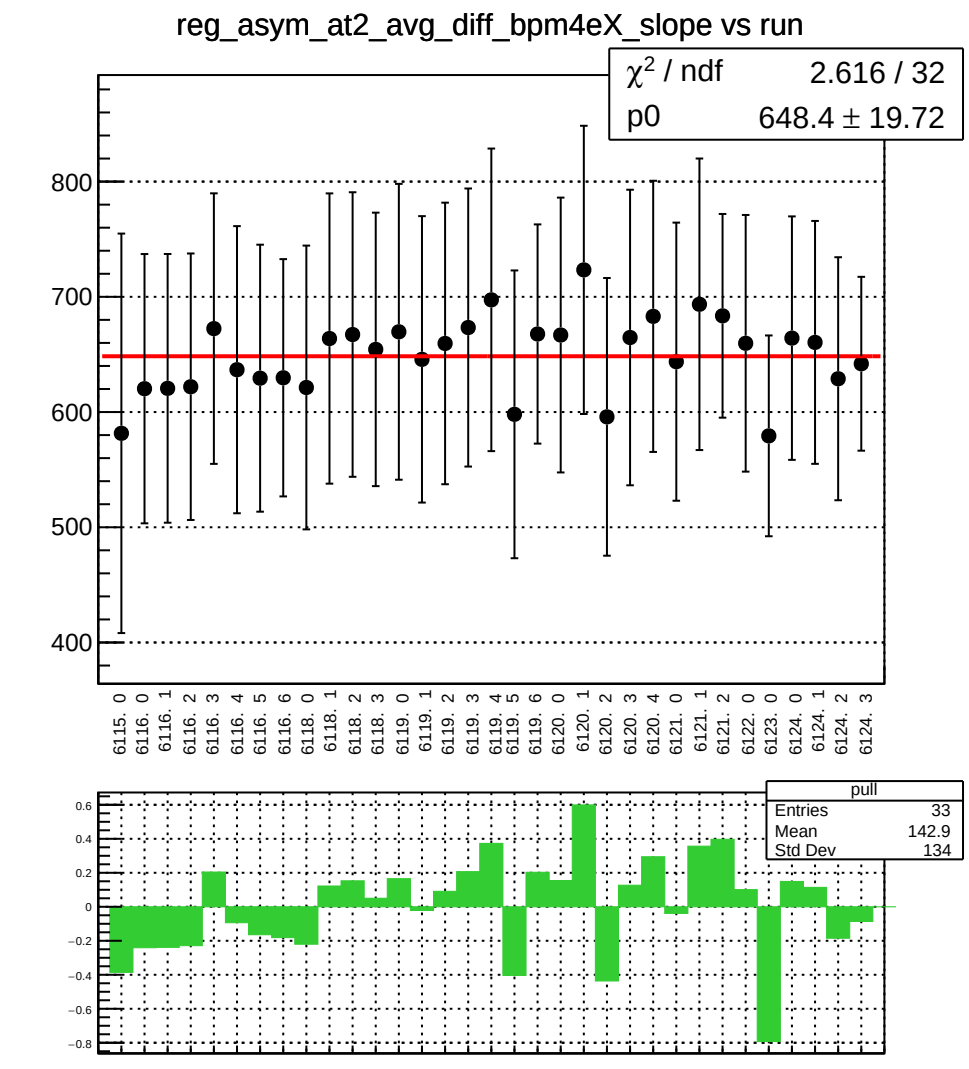

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 28.15 / 32
p0 5.68 ± 0.2286
pull
Entries 33
Mean −36.77
Std Dev 50.63

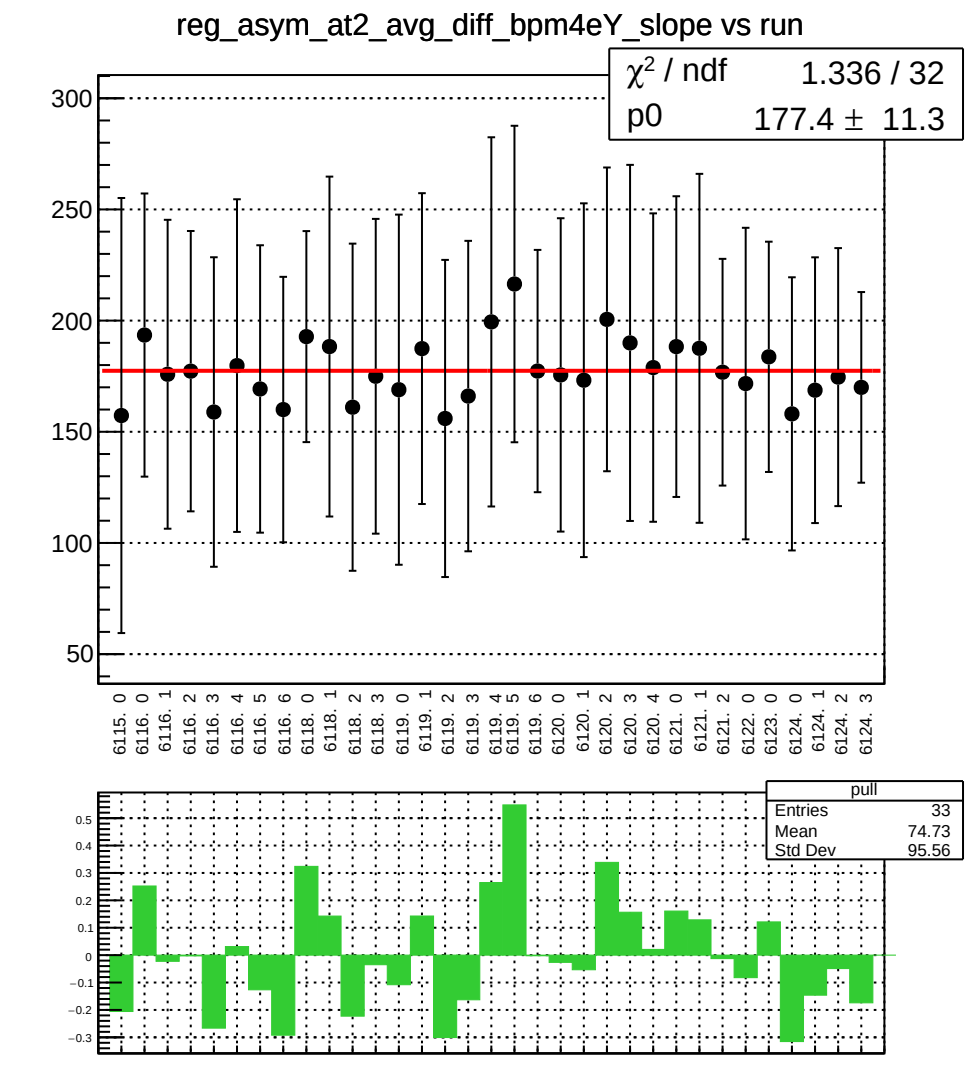

pull1D
Entries 33
Mean −0.03185
Std Dev 0.9231

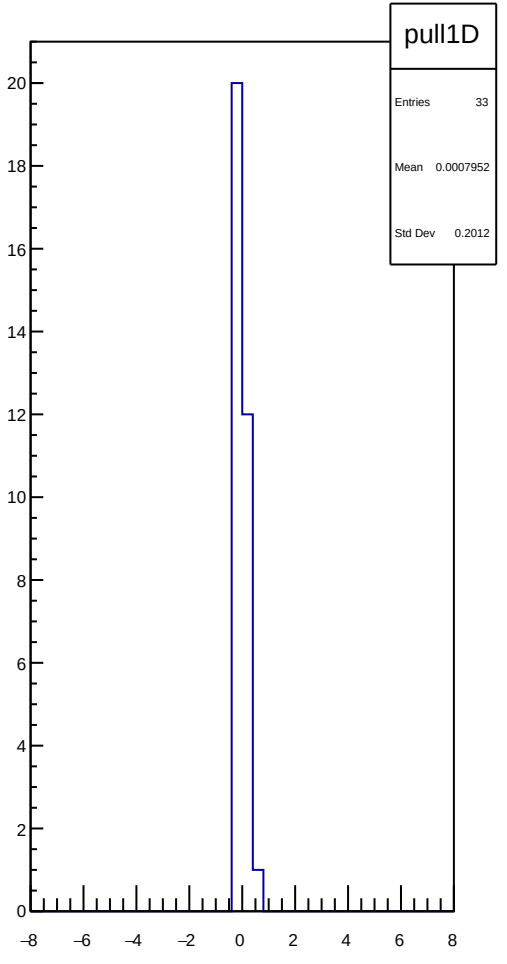

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.704 / 32
p0 −492.8 ± 16.94
−250
−300
−350
−400
−450
−500
−550
−600
−650
−700
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 198
Std Dev 189
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean −0.003137
Std Dev 0.2862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

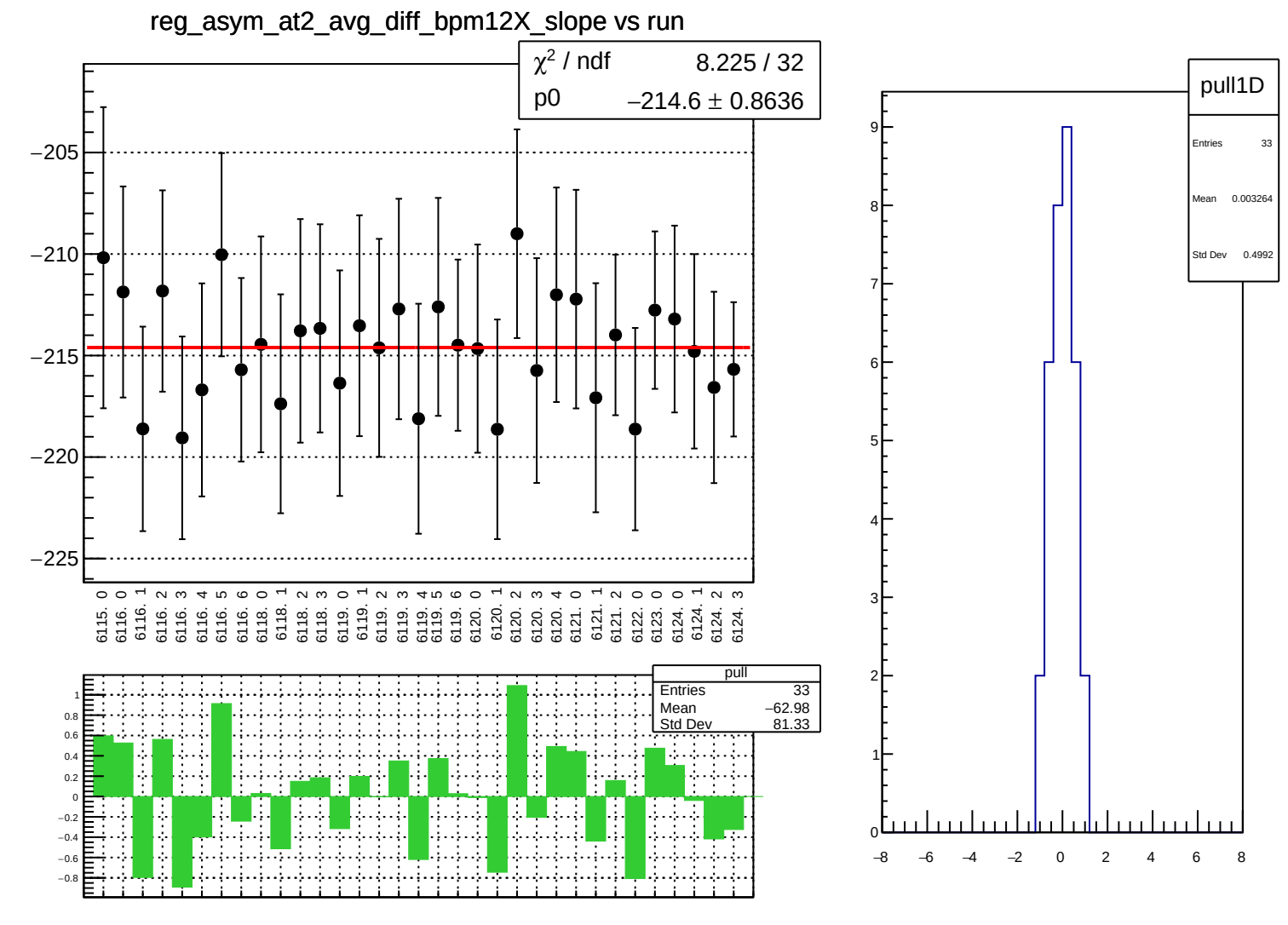

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.332 / 32
p0 −40.94 ± 10.58
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −20.5
Std Dev 56.96
0.2
0
−0.2
−0.4
−0.6

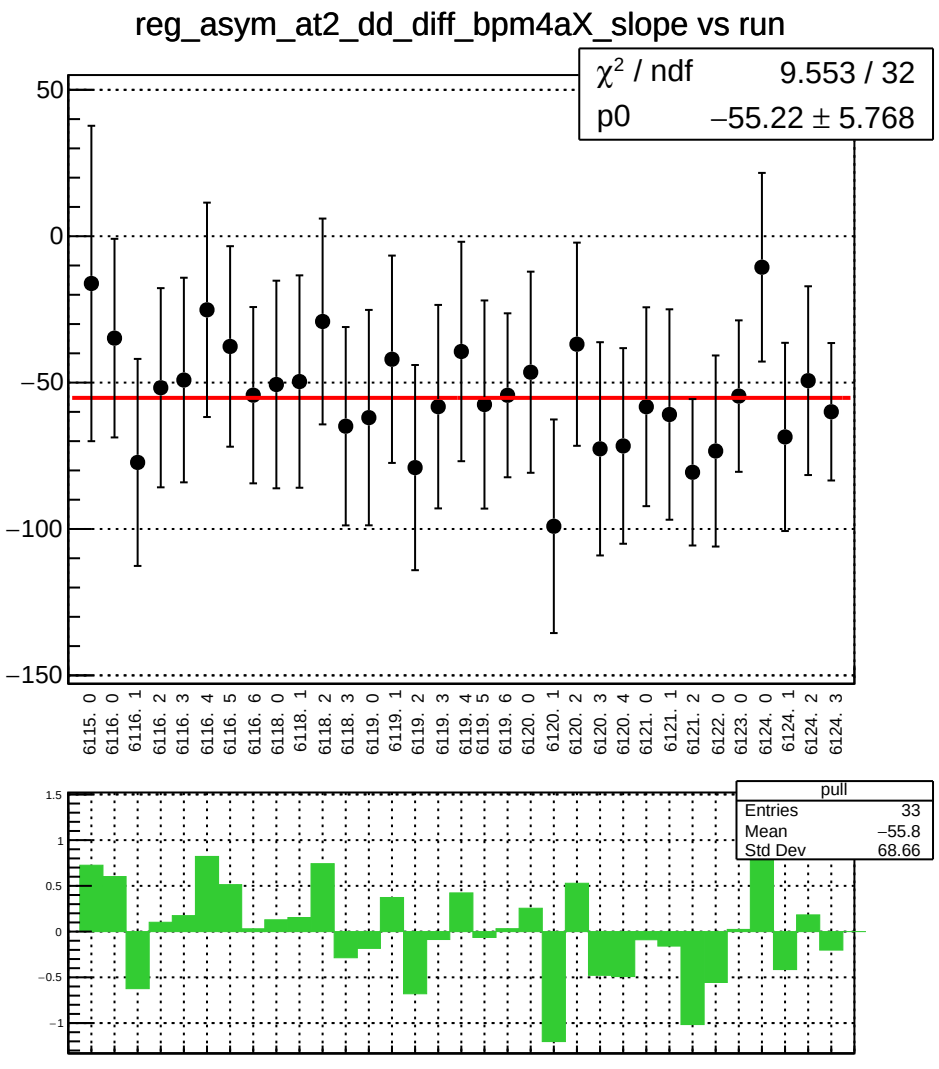

pull1D
Entries 33
Mean −0.002858
Std Dev 0.2009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

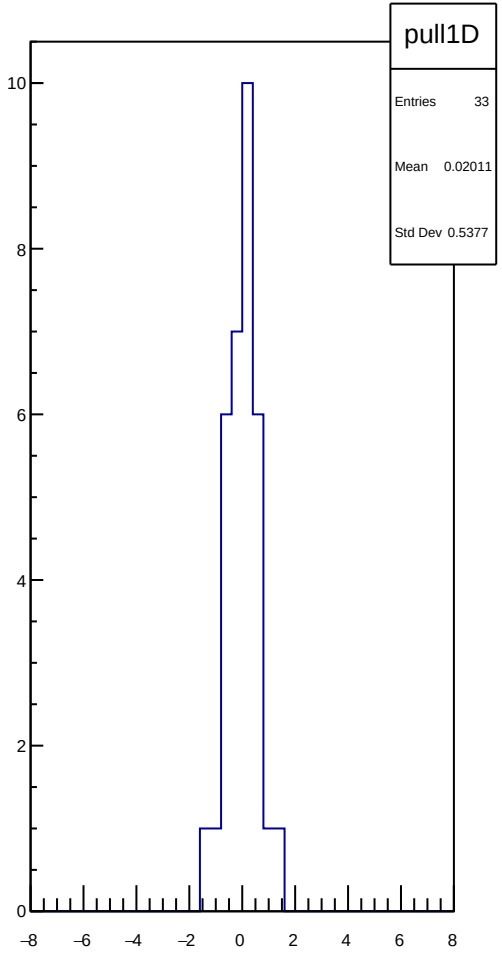

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.616 / 32
p0 648.4 ± 19.72
800
700
600
500
400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 142.9
Std Dev 134
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.004329
Std Dev 0.2815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

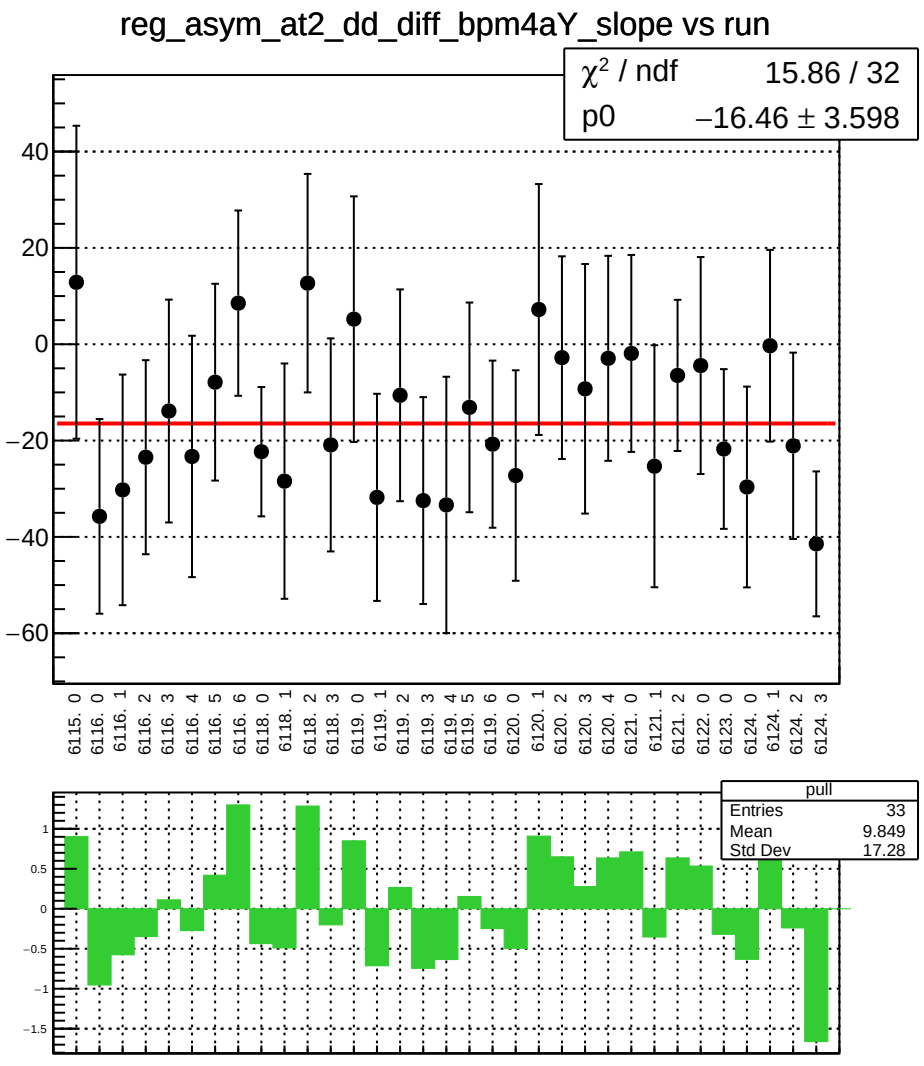

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.336 / 32
p0 177.4 ± 11.3
300
250
200
150
100
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 74.73
Std Dev 95.56
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

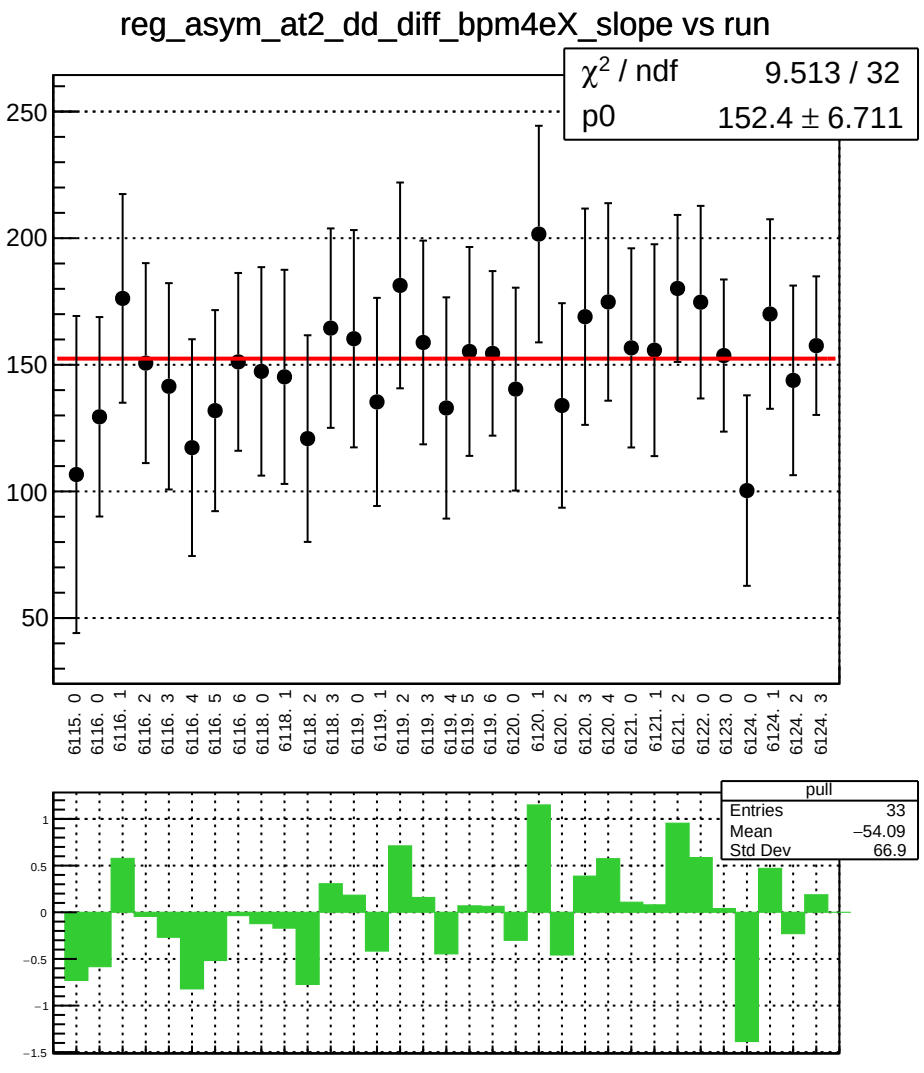

pull1D
Entries 33
Mean 0.0007952
Std Dev 0.2012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

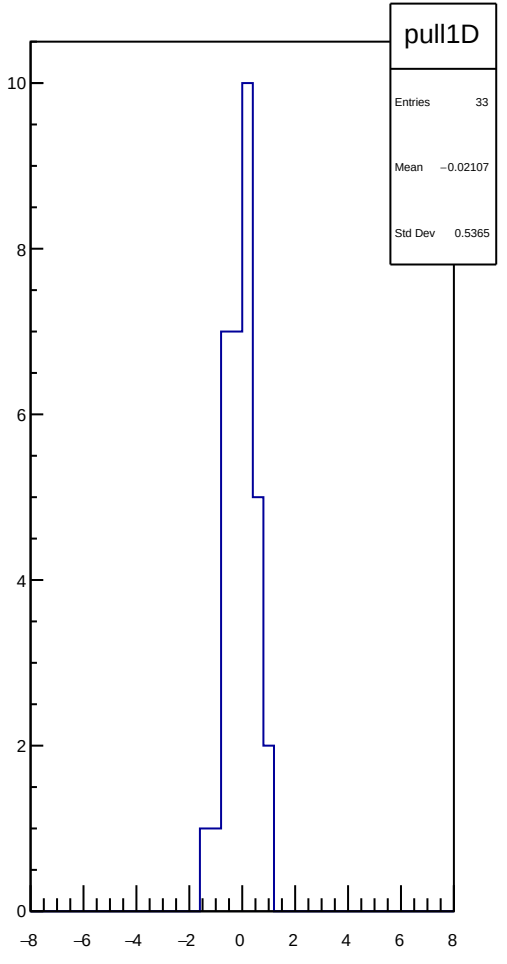

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.225 / 32
p0 −214.6 ± 0.8636
−205
−210
−215
−220
−225
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −62.98
Std Dev 81.33
pull1D
Entries 33
Mean 0.003264
Std Dev 0.4992

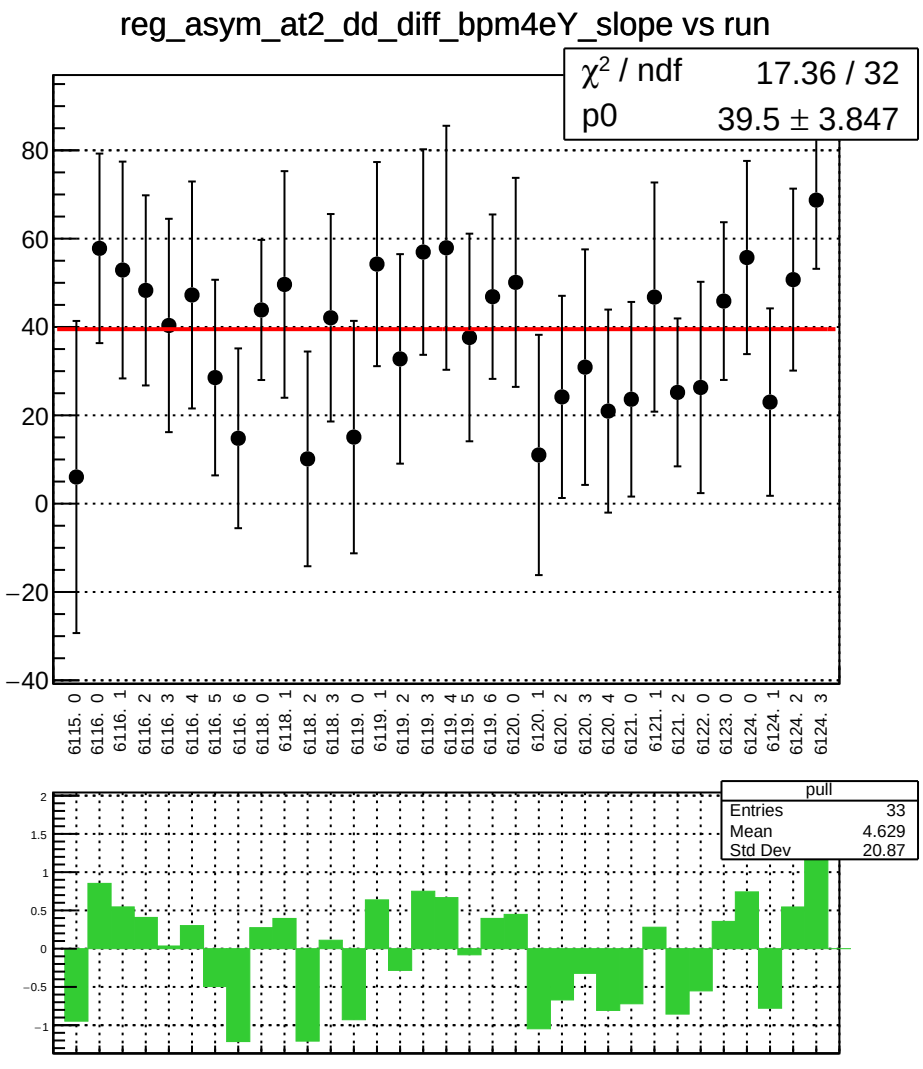

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.553 / 32
p0 −55.22 ± 5.768
50
0
−50
−100
−150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −55.8
Std Dev 68.66
1.5
1
0.5
0
−0.5
−1

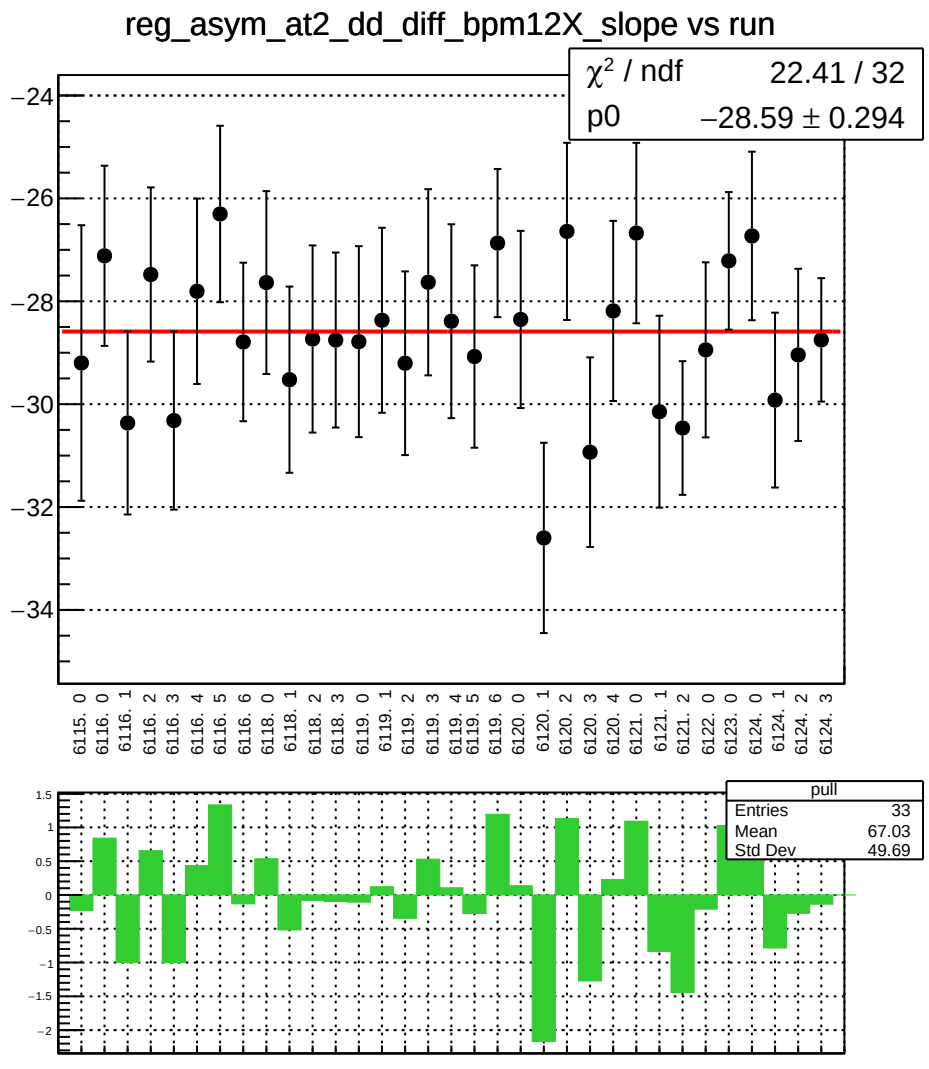

pull1D
Entries 33
Mean 0.02011
Std Dev 0.5377
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

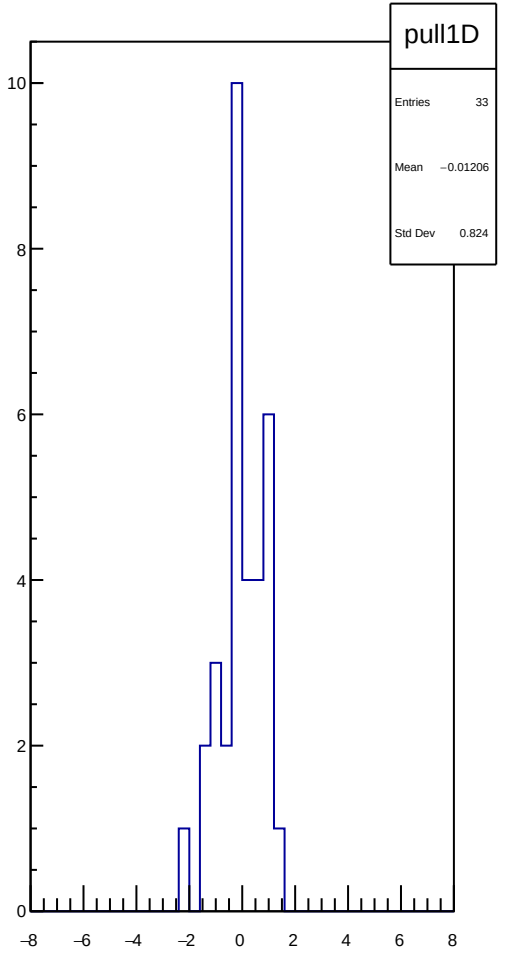

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.86 / 32
p0 −16.46 ± 3.598
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 9.849
Std Dev 17.28
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03443
Std Dev 0.6925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

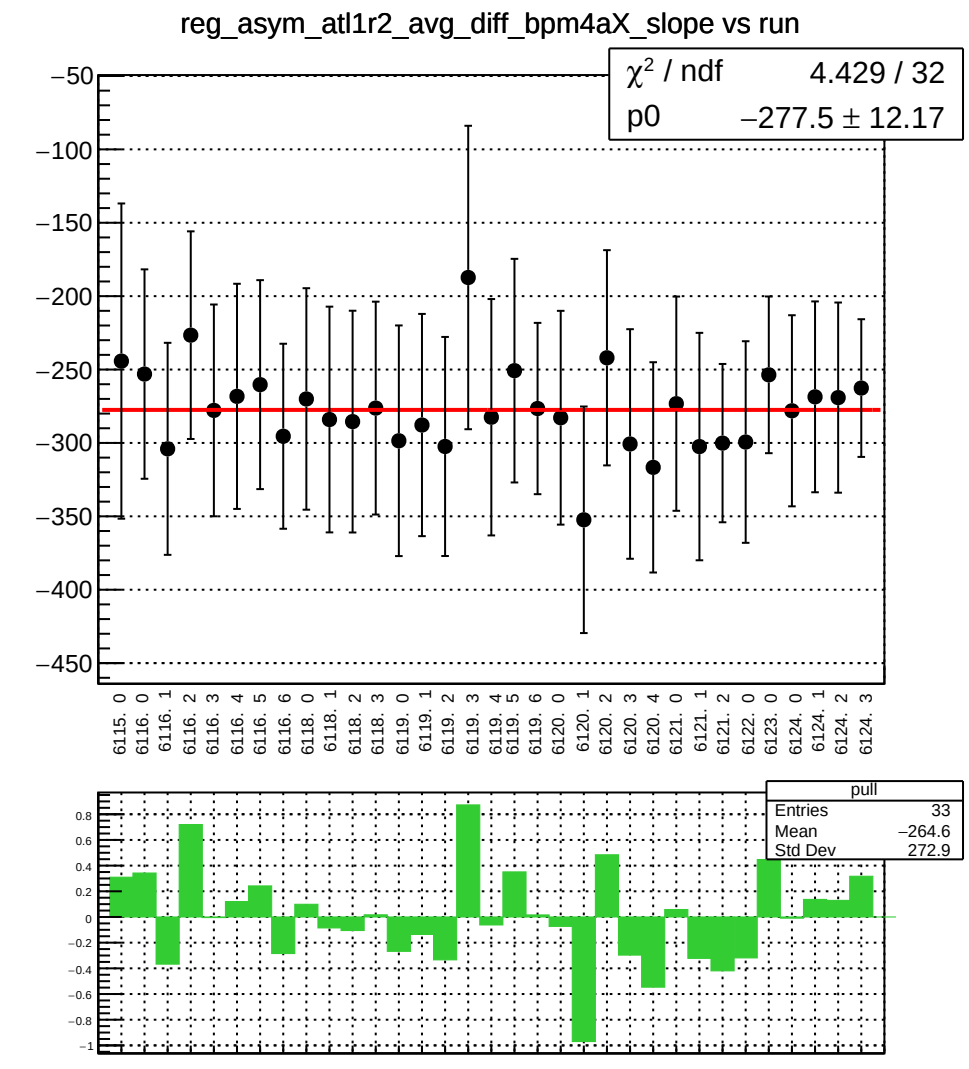

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.513 / 32
p0 152.4 ± 6.711
250
200
150
100
50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −54.09
Std Dev 66.9
1
0.5
0
−0.5
−1
−1.5

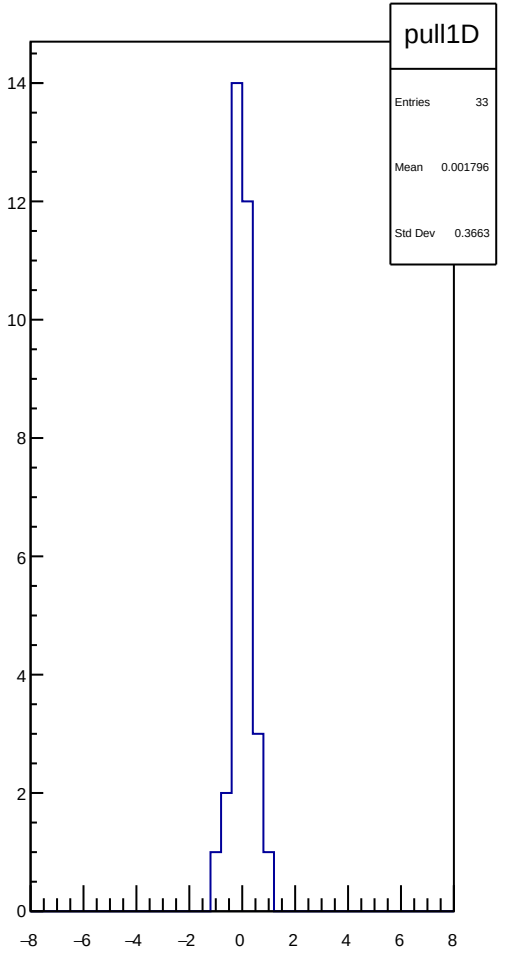

pull1D
Entries 33
Mean −0.02107
Std Dev 0.5365
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

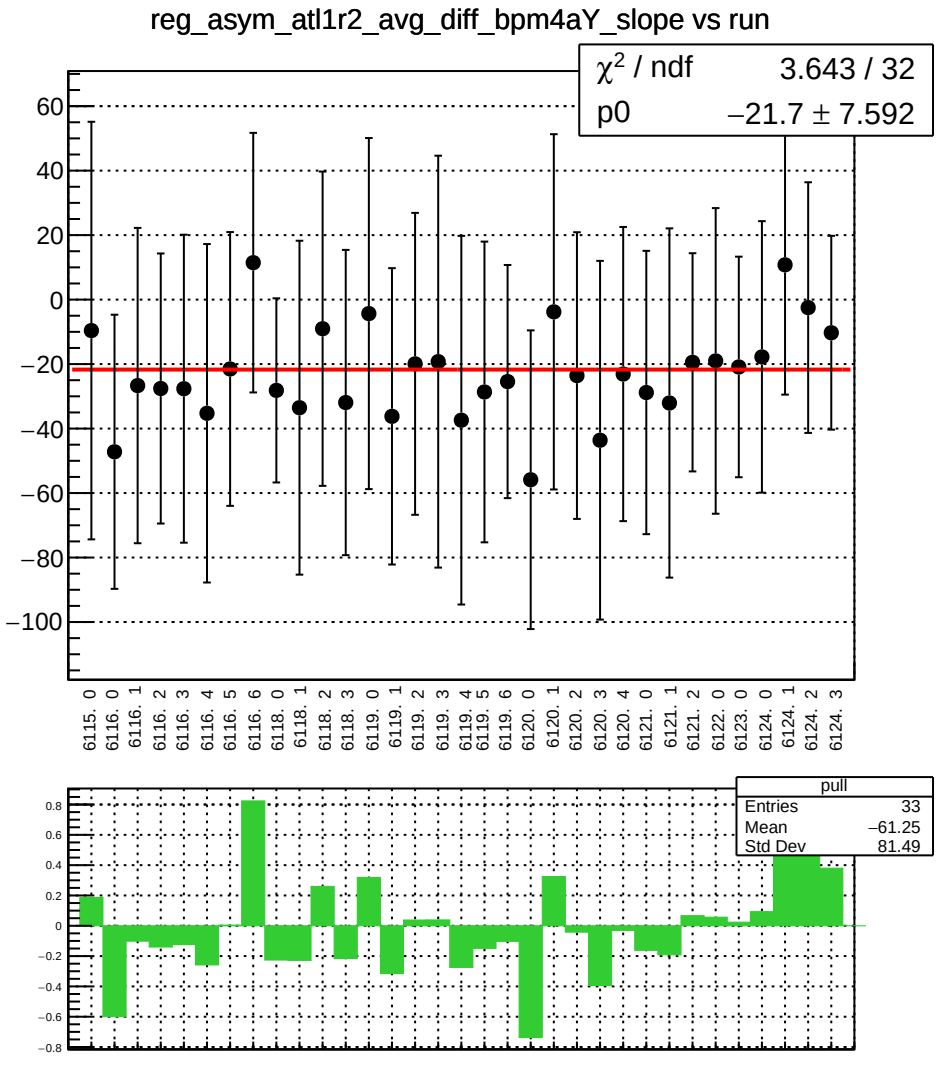

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.36 / 32
p0 39.5 ± 3.847
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 4.629
Std Dev 20.87
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.03894
Std Dev 0.7243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

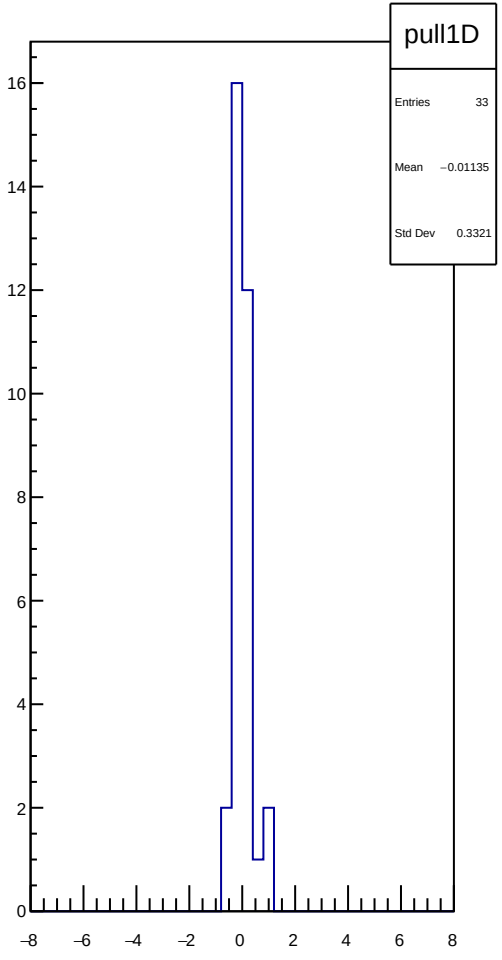

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.41 / 32
p0 −28.59 ± 0.294
−24
−26
−28
−30
−32
−34
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 67.03
Std Dev 49.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2

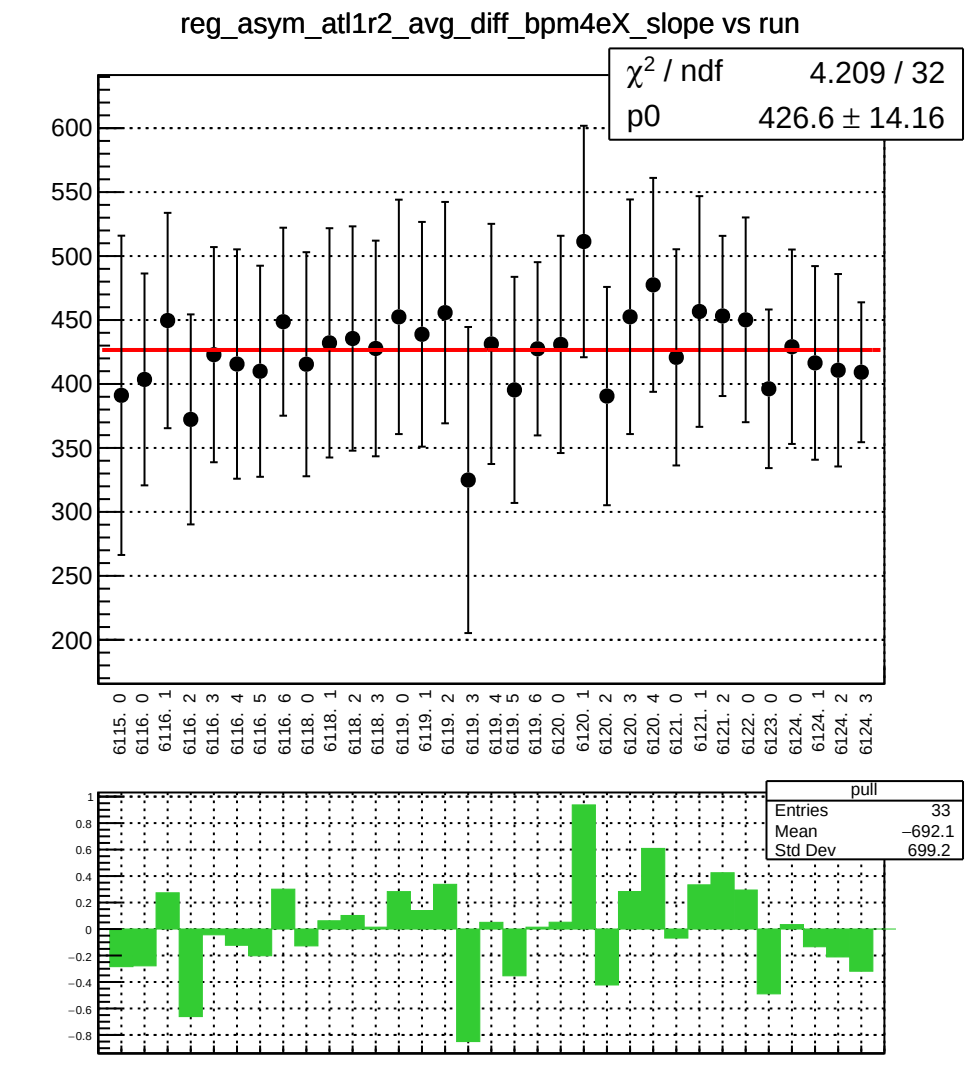

pull1D
Entries 33
Mean −0.01206
Std Dev 0.824
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

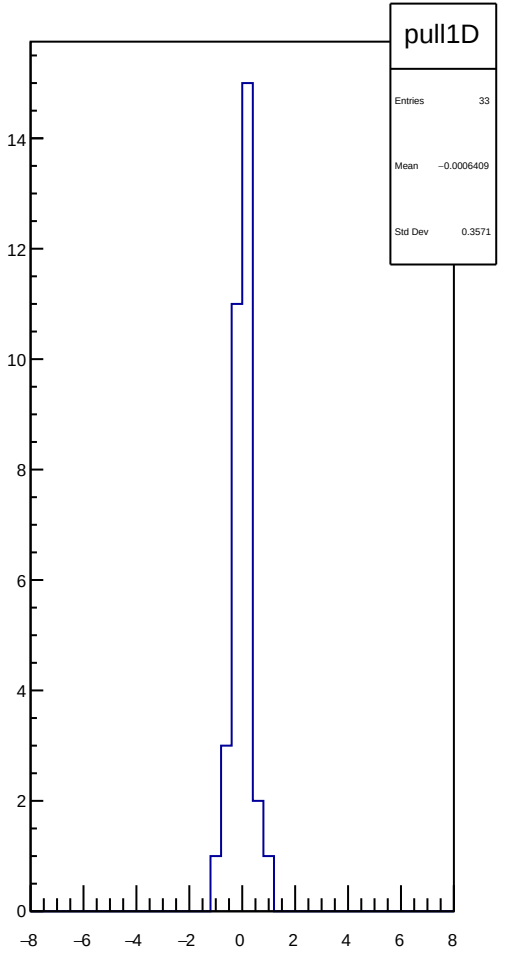

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.429 / 32
p0 −277.5 ± 12.17
−50
−100
−150
−200
−250
−300
−350
−400
−450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −264.6
Std Dev 272.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

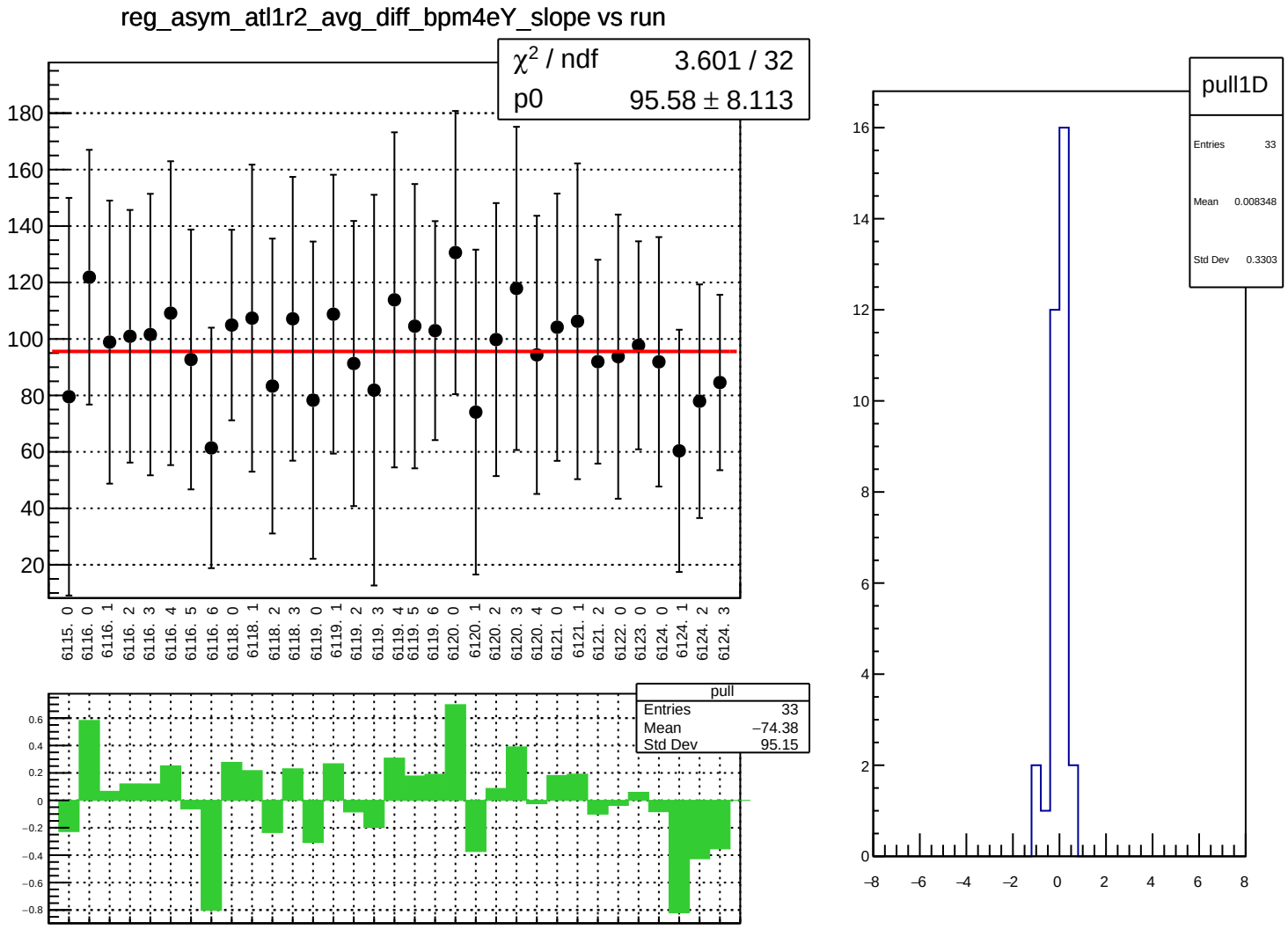

pull1D
Entries 33
Mean 0.001796
Std Dev 0.3663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

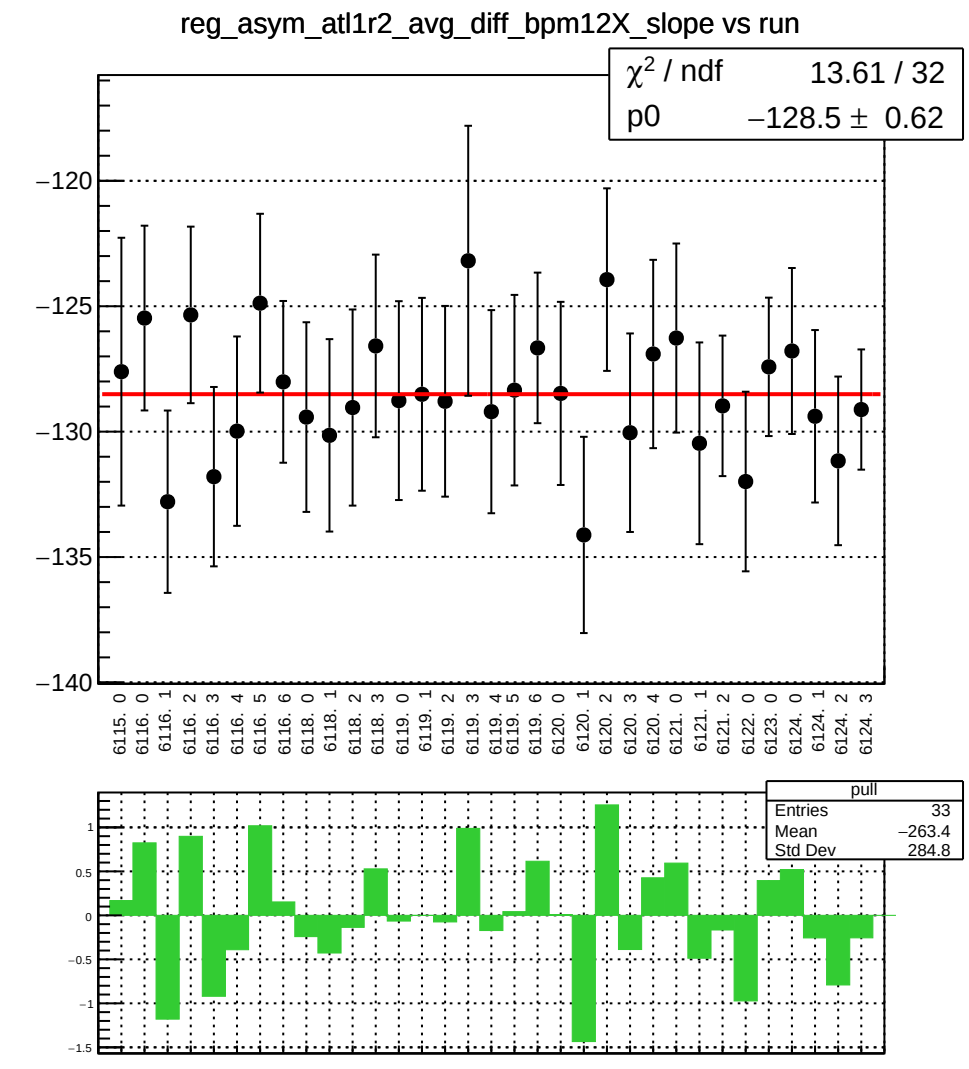

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.643 / 32
p0 −21.7 ± 7.592
60
40
20
0
−20
−40
−60
−80
−100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −61.25
Std Dev 81.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

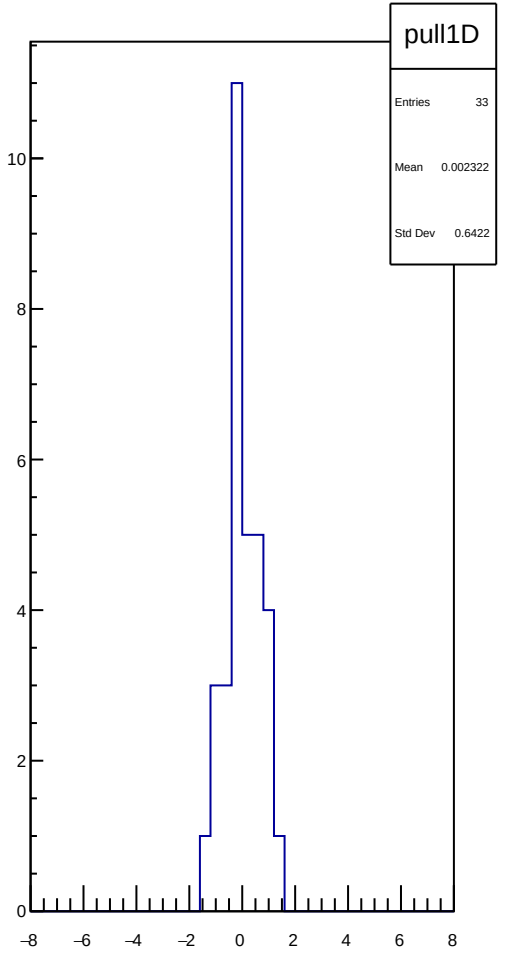

pull1D
Entries 33
Mean −0.01135
Std Dev 0.3321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

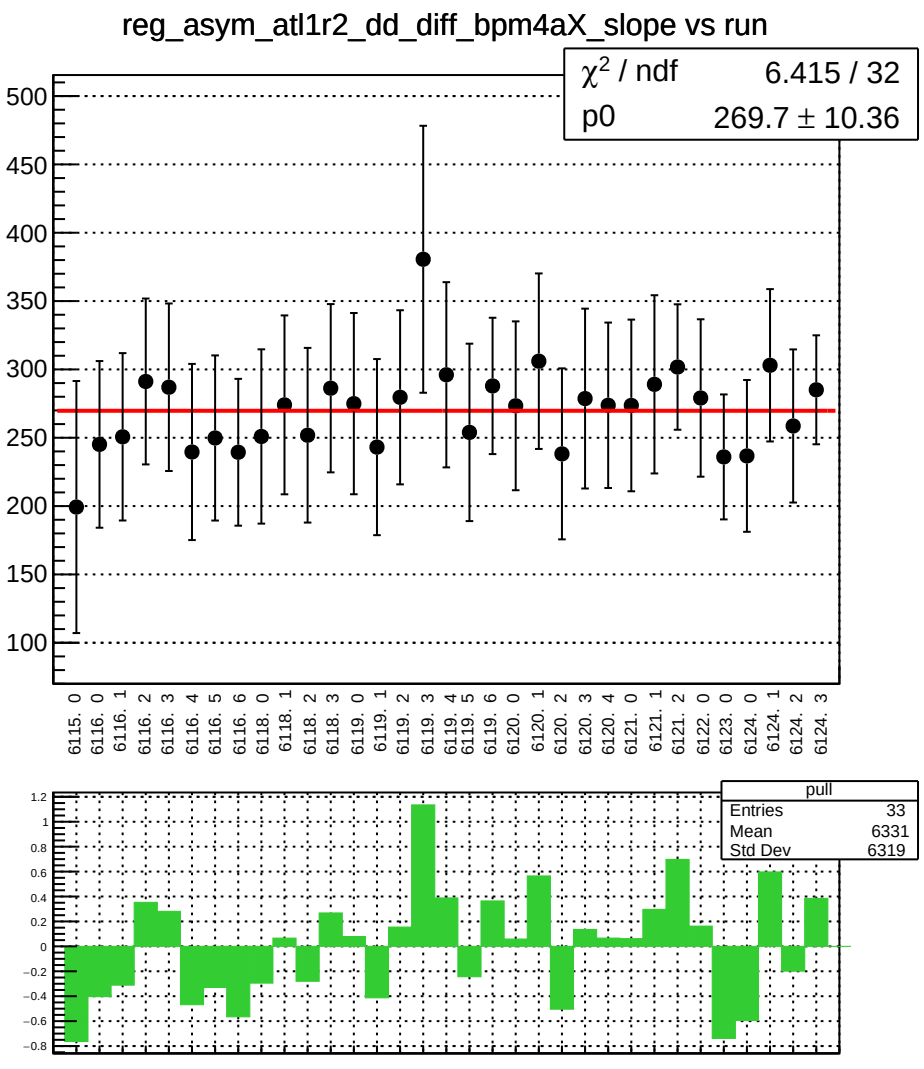

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.209 / 32
p0 426.6 ± 14.16
600
550
500
450
400
350
300
250
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −692.1
Std Dev 699.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

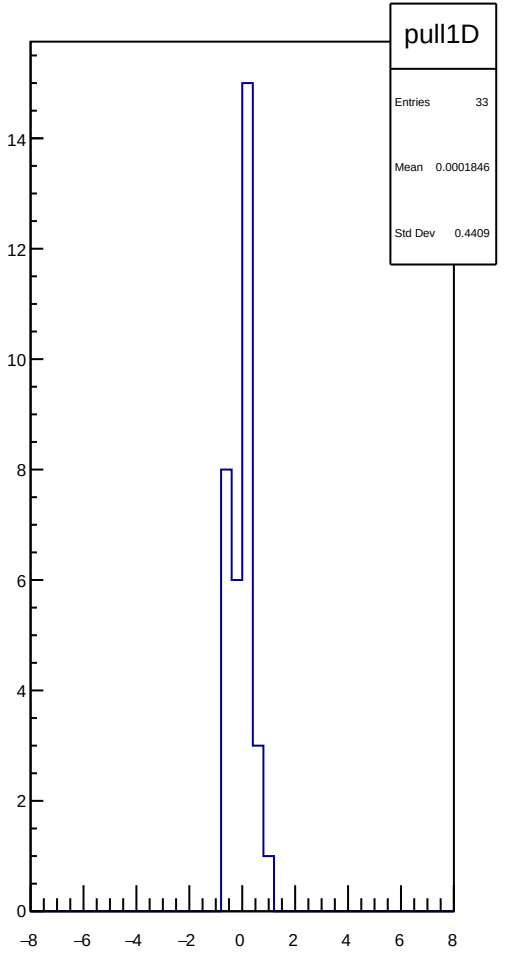

pull1D
Entries 33
Mean −0.0006409
Std Dev 0.3571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

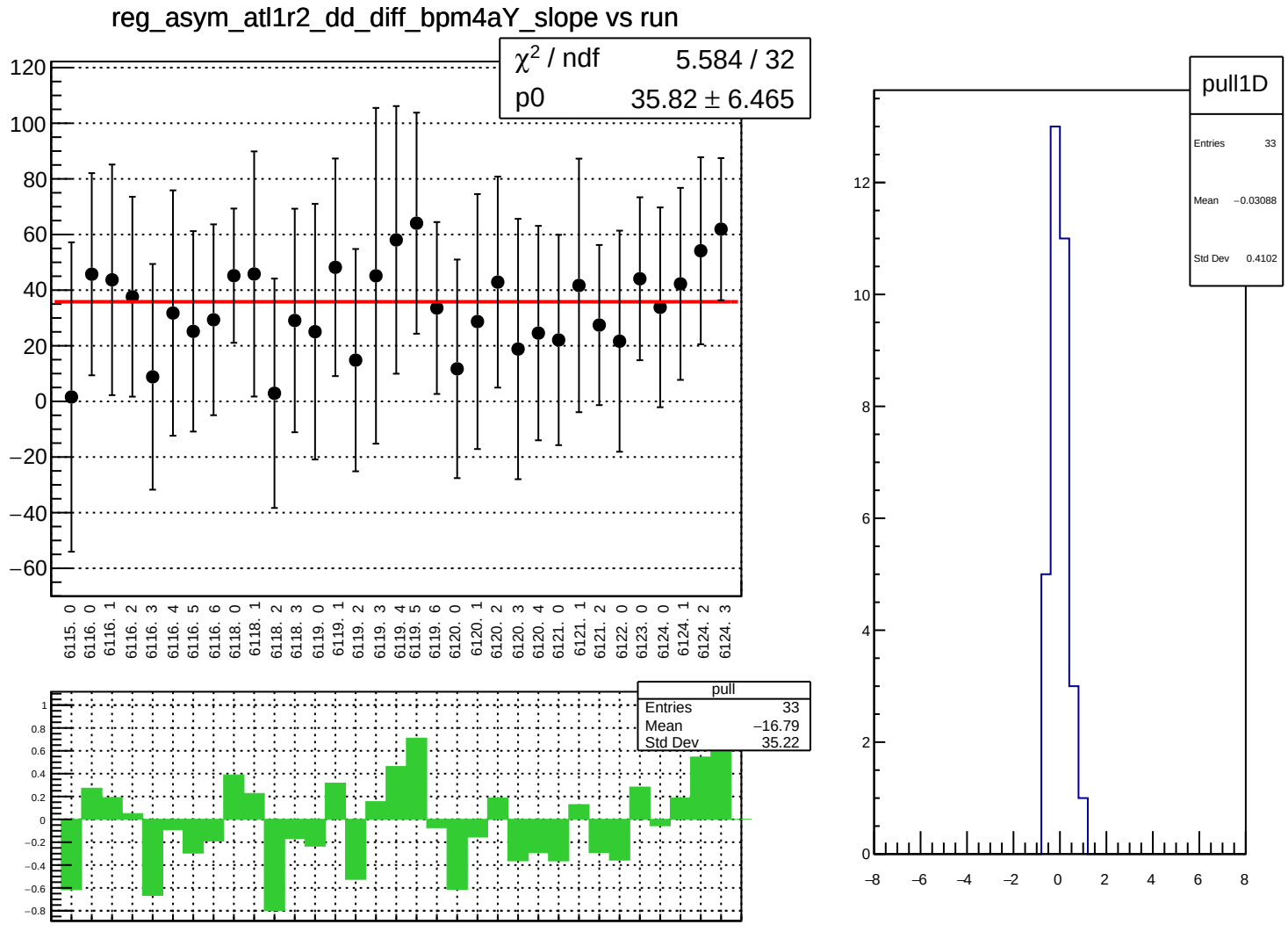

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.601 / 32
p0 95.58 ± 8.113
180
160
140
120
100
80
60
40
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −74.38
Std Dev 95.15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.008348
Std Dev 0.3303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

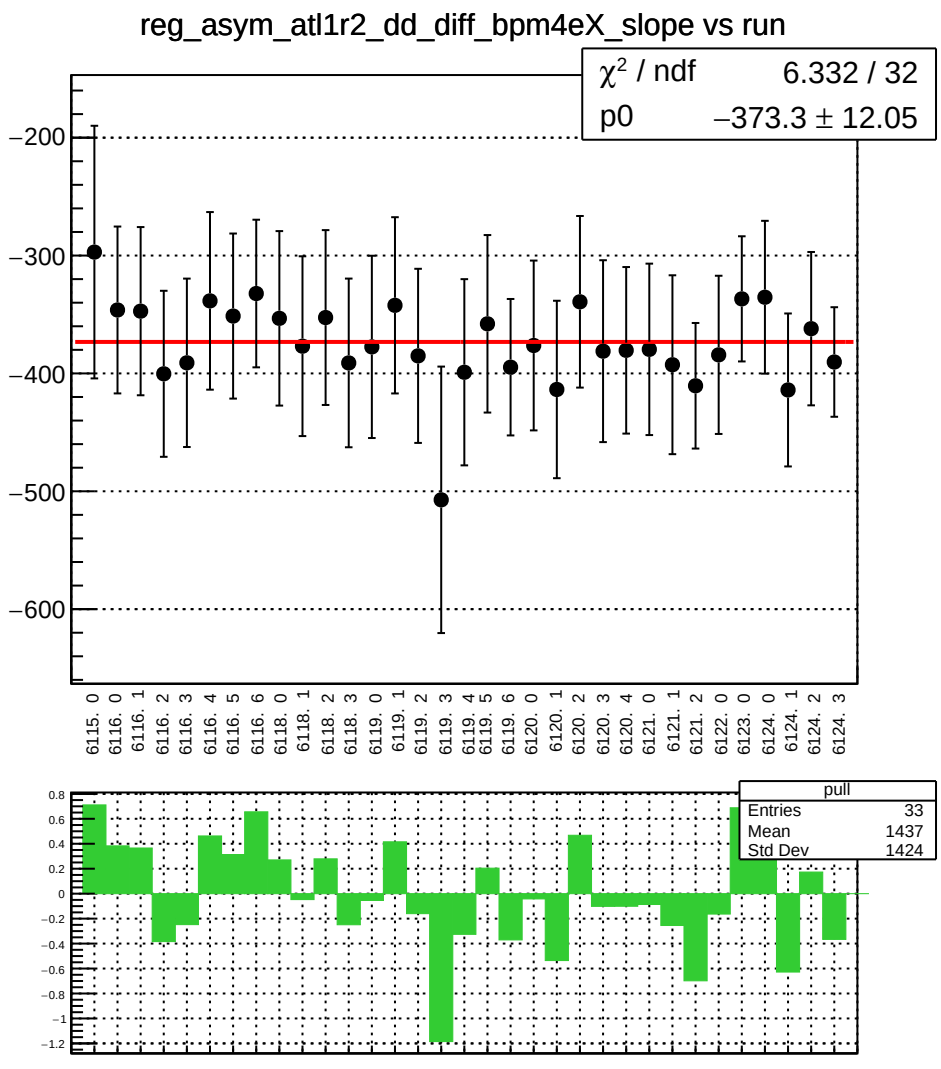

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.61 / 32
p0 −128.5 ± 0.62
−120
−125
−130
−135
−140
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −263.4
Std Dev 284.8
1
0.5
0
−0.5
−1
−1.5

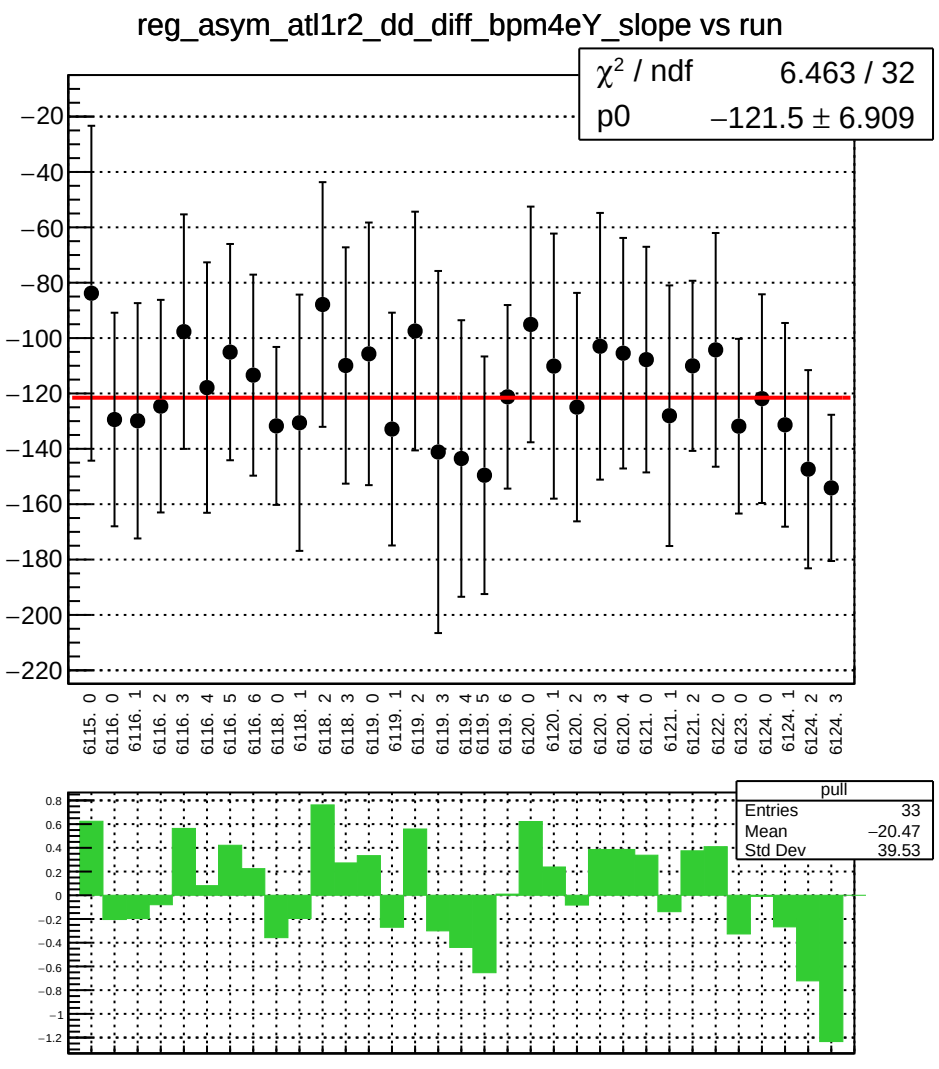

pull1D
Entries 33
Mean 0.002322
Std Dev 0.6422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

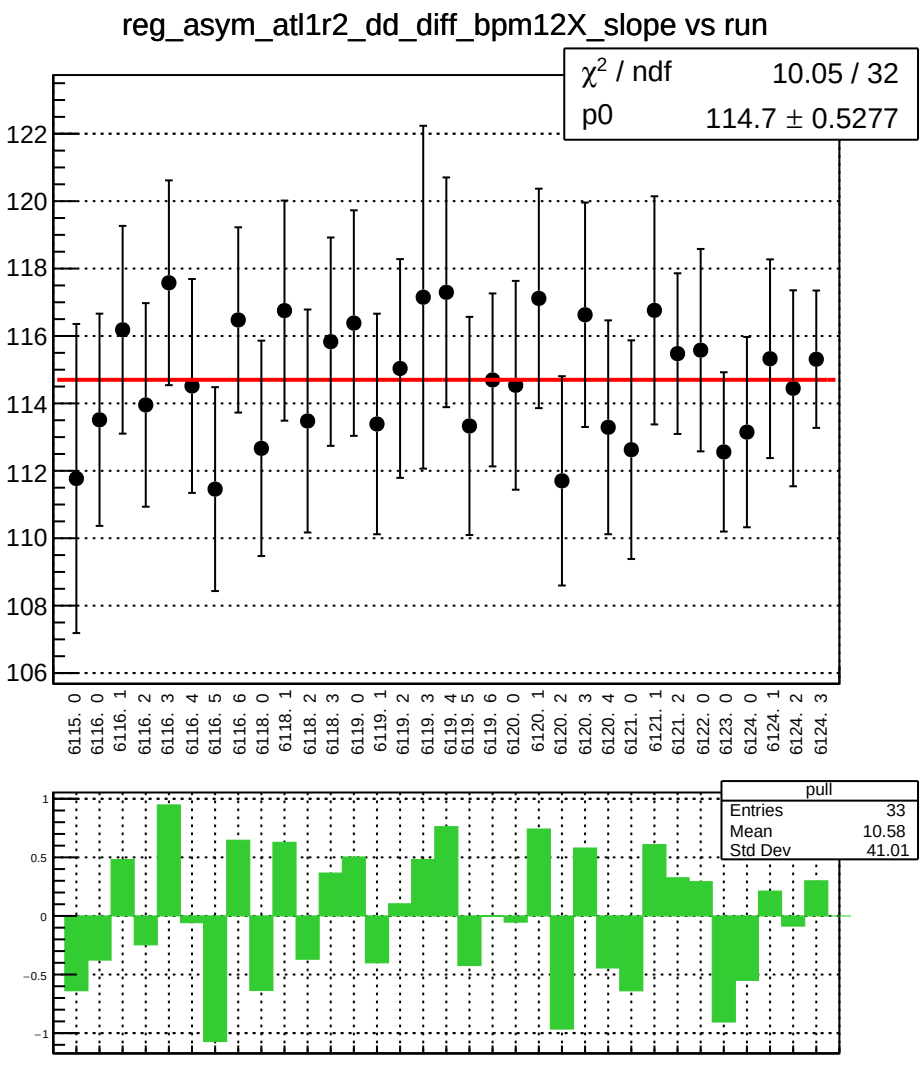

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.415 / 32
p0 269.7 ± 10.36
500
450
400
350
300
250
200
150
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 6331
Std Dev 6319
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

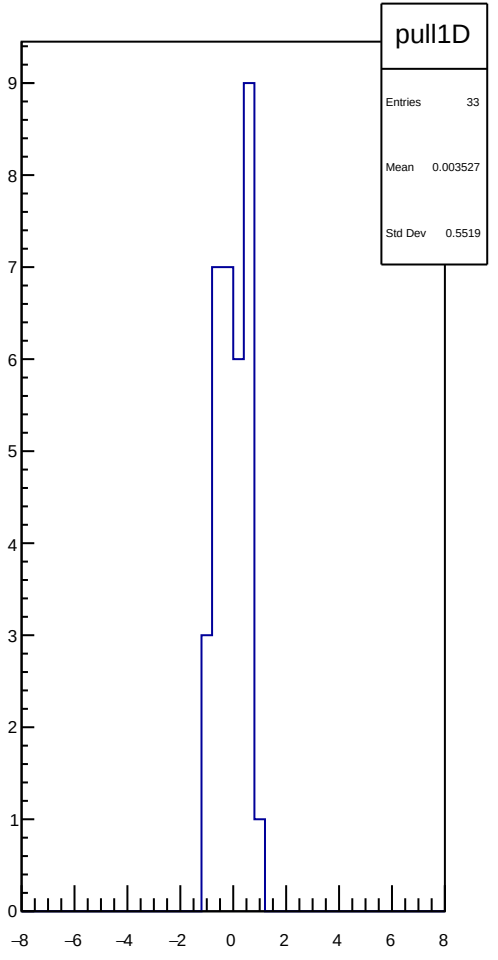

pull1D
Entries 33
Mean 0.0001846
Std Dev 0.4409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

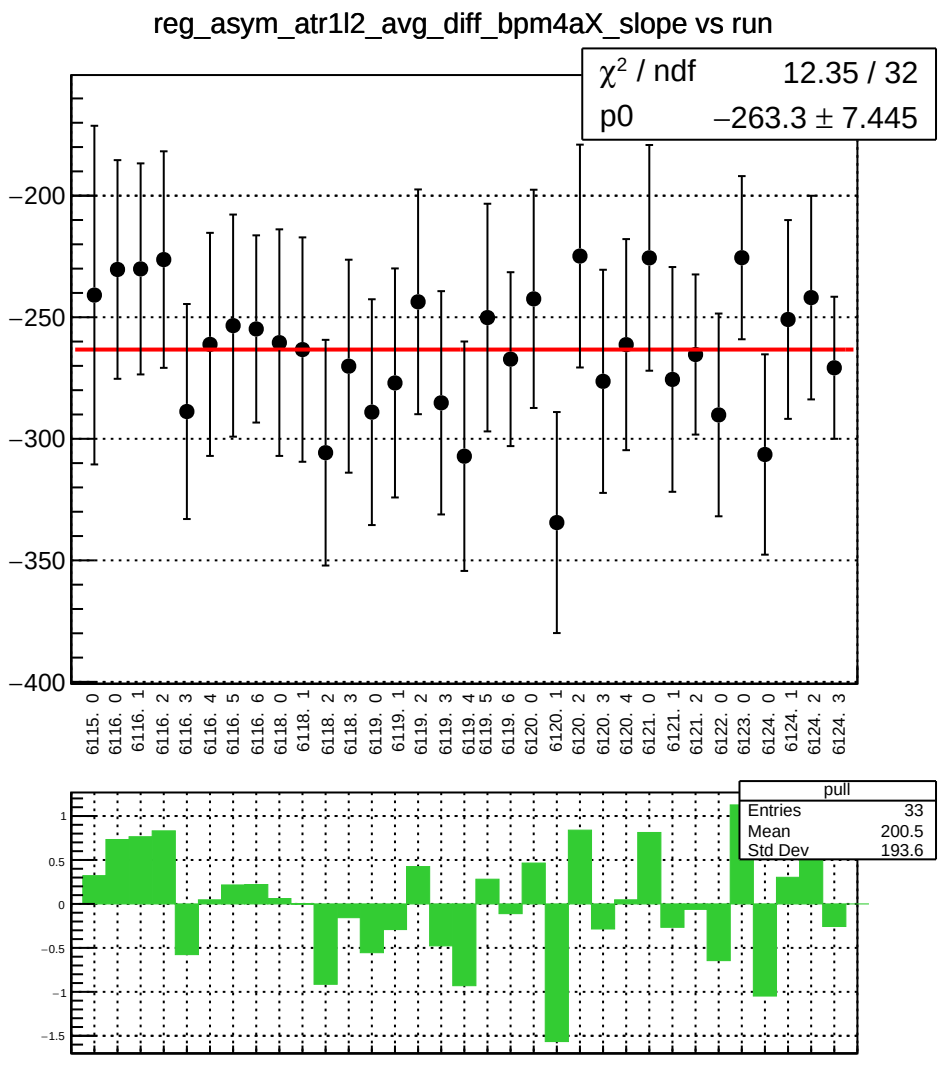

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.584 / 32
p0 35.82 ± 6.465
120
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −16.79
Std Dev 35.22
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.03088
Std Dev 0.4102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

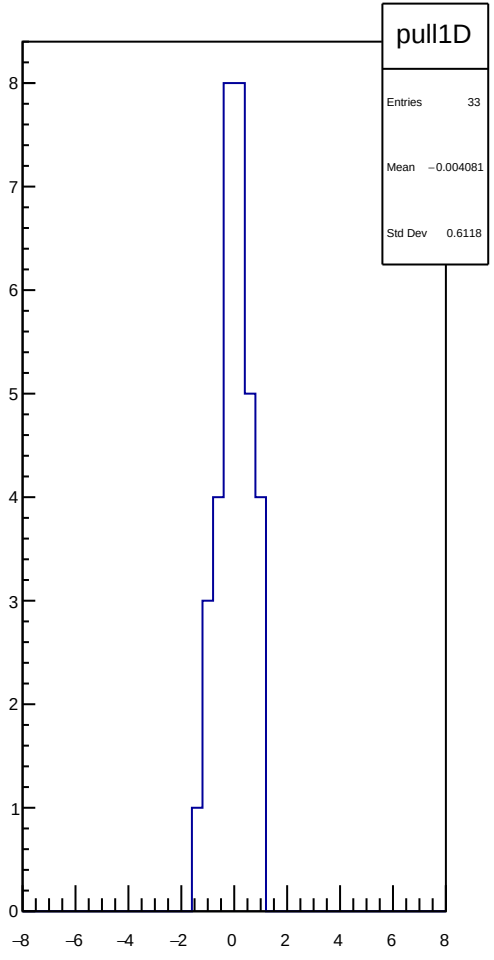

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.332 / 32
p0 −373.3 ± 12.05
−200
−300
−400
−500
−600
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 1437
Std Dev 1424
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 33
Mean −0.0008516
Std Dev 0.438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

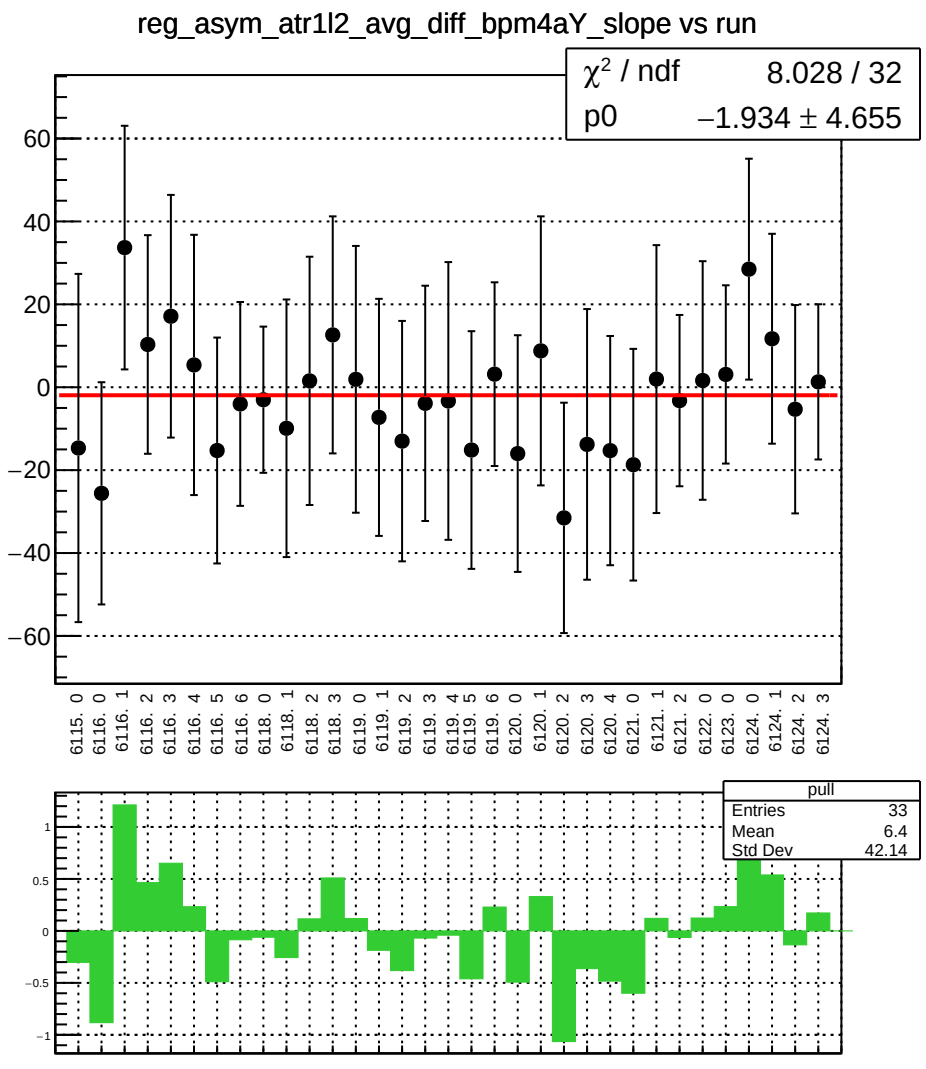

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.463 / 32
p0 −121.5 ± 6.909
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −20.47
Std Dev 39.53
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 33
Mean 0.03434
Std Dev 0.4412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

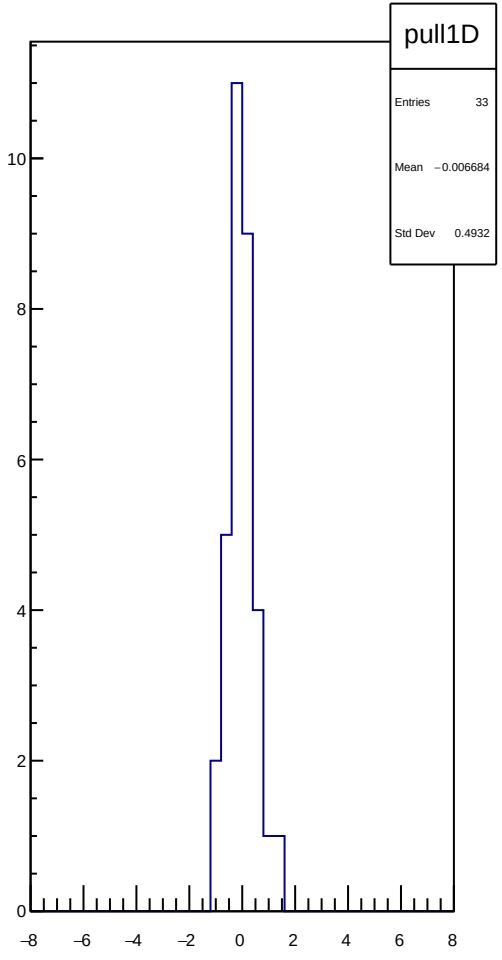

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.05 / 32
p0 114.7 ± 0.5277
122
120
118
116
114
112
110
108
106
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 10.58
Std Dev 41.01
1
0.5
0
−0.5
−1

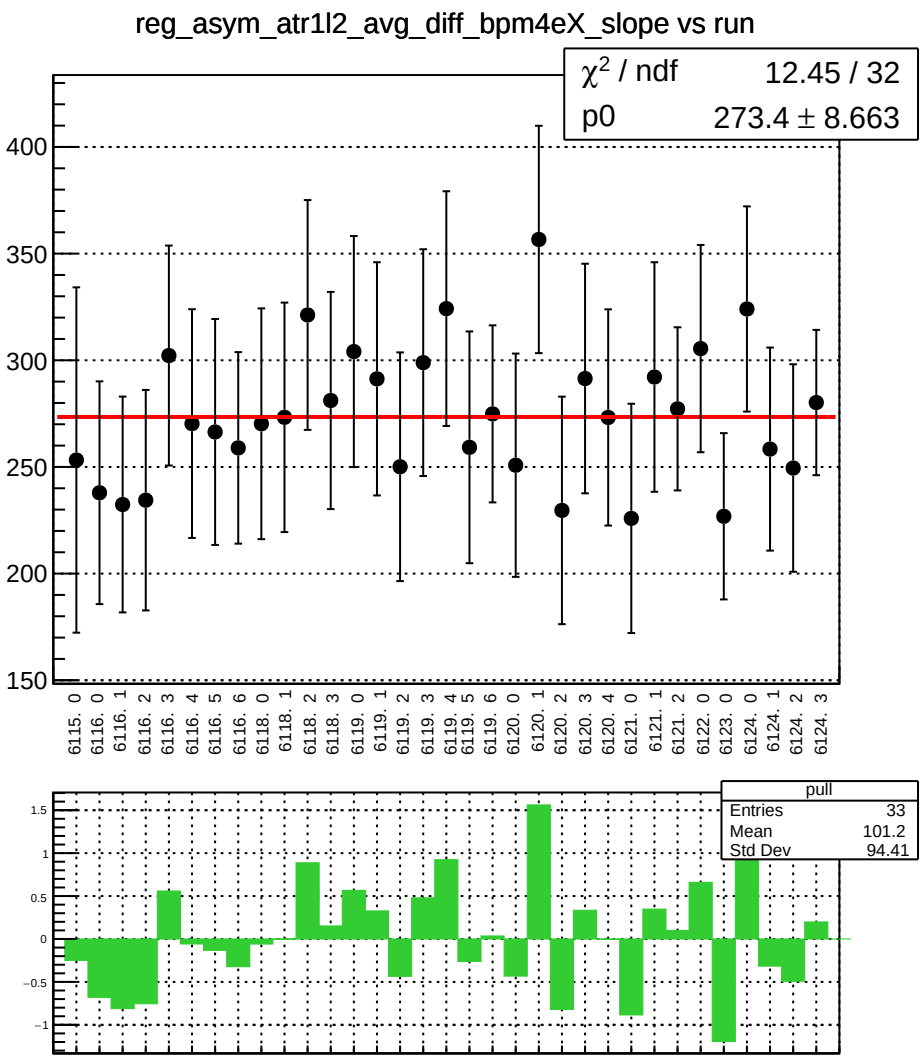

pull1D
Entries 33
Mean 0.003527
Std Dev 0.5519
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

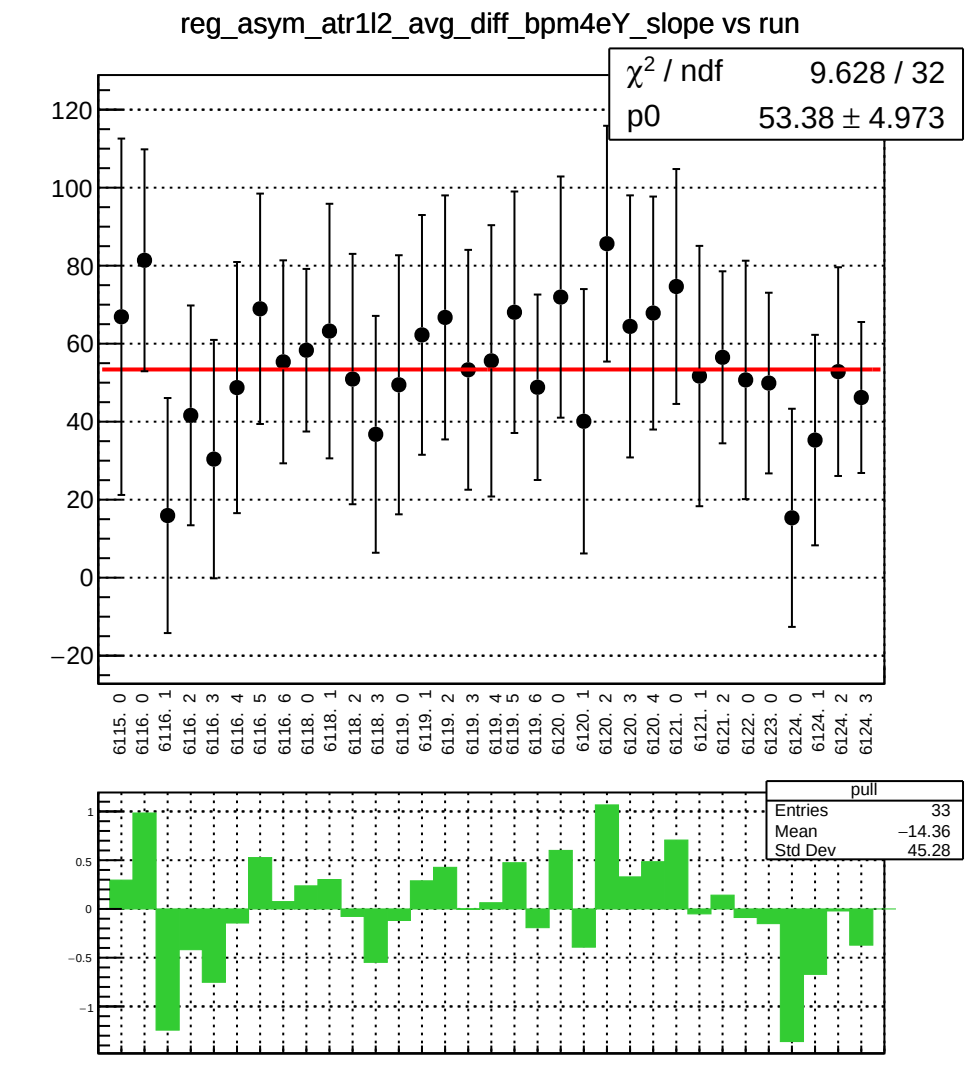

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.35 / 32
p0 −263.3 ± 7.445
−200
−250
−300
−350
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 200.5
Std Dev 193.6
1
0.5
0
−0.5
−1
−1.5

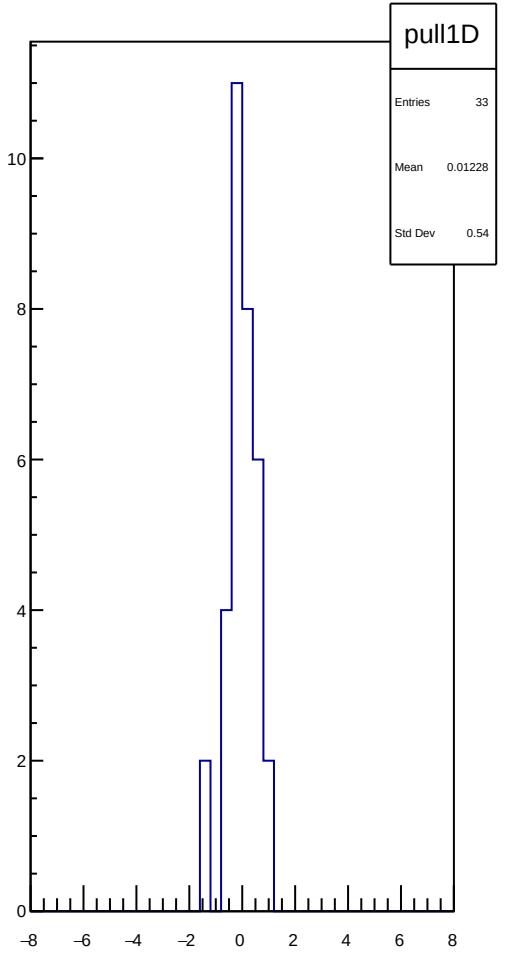

pull1D
Entries 33
Mean −0.004081
Std Dev 0.6118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

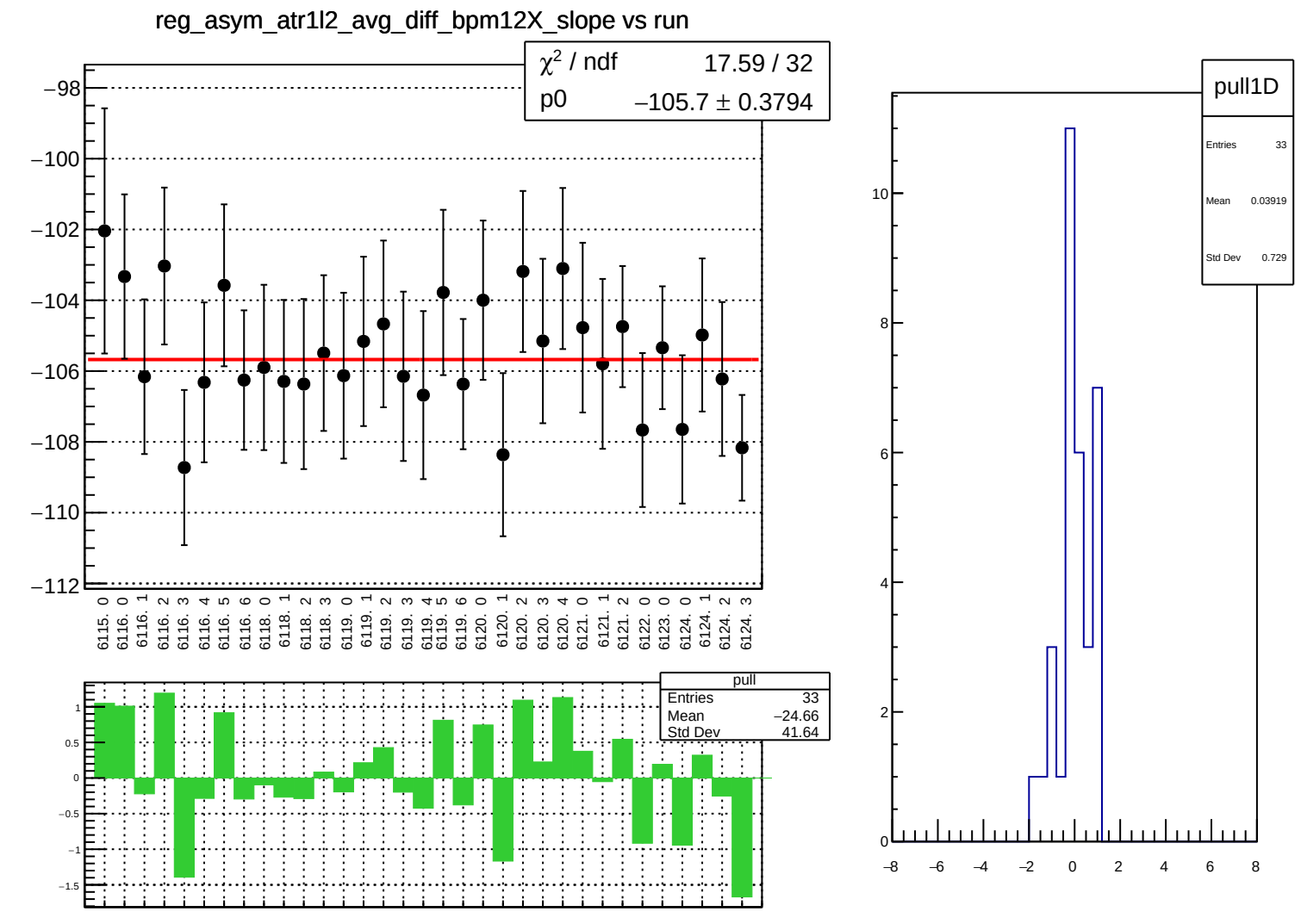

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.028 / 32
p0 −1.934 ± 4.655
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 6.4
Std Dev 42.14
1
0.5
0
−0.5
−1

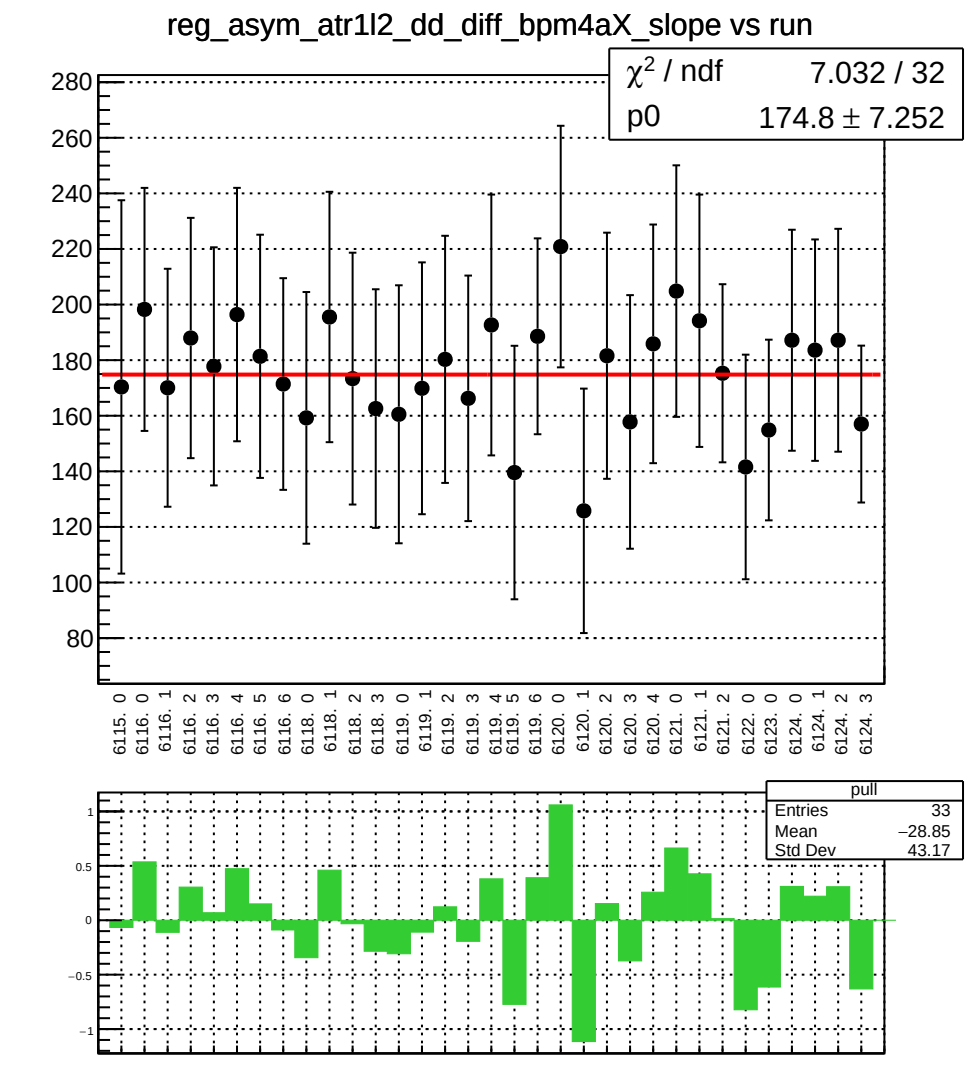

pull1D
Entries 33
Mean −0.006684
Std Dev 0.4932
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

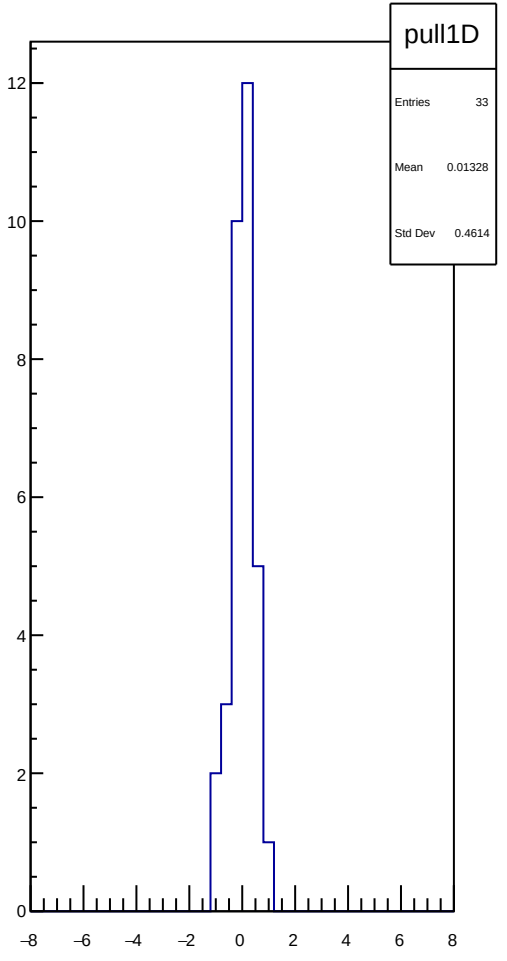

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.45 / 32
p0 273.4 ± 8.663
400
350
300
250
200
150
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 101.2
Std Dev 94.41
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.008138
Std Dev 0.6142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

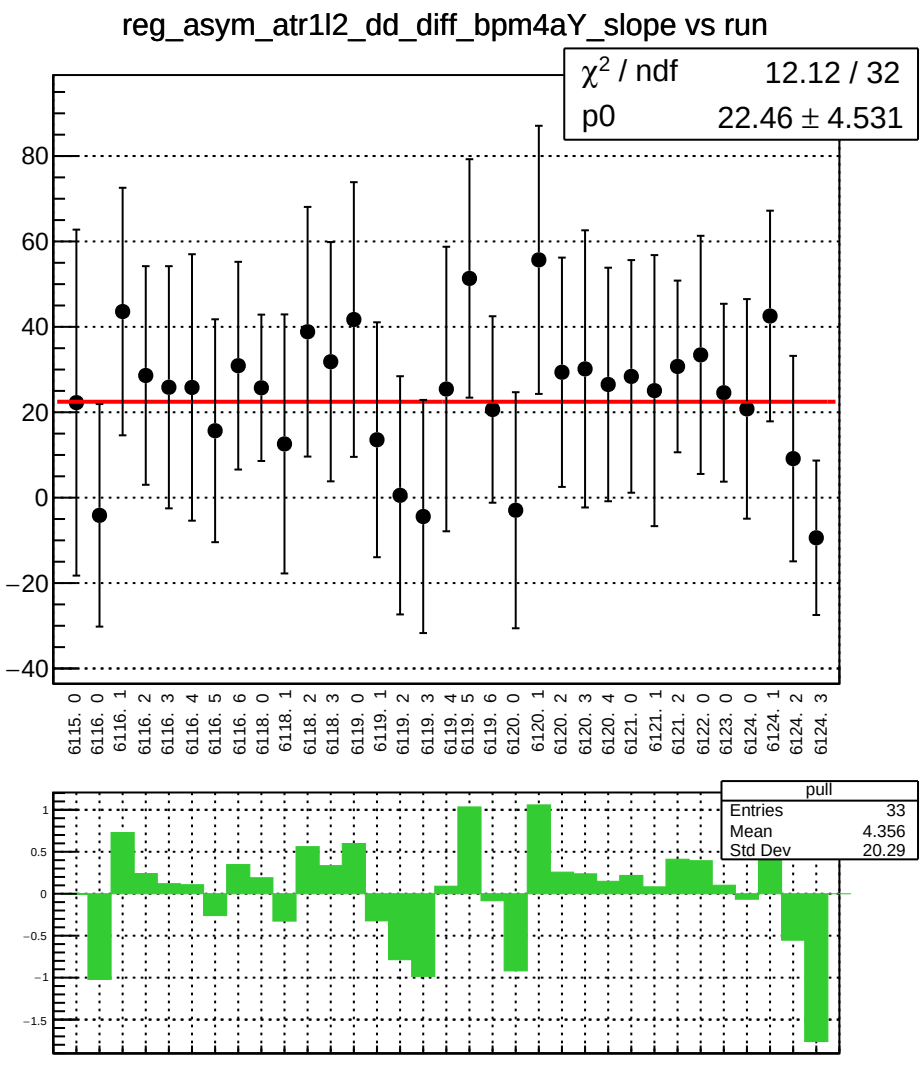

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.628 / 32
p0 53.38 ± 4.973
120
100
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −14.36
Std Dev 45.28
1
0.5
0
−0.5
−1

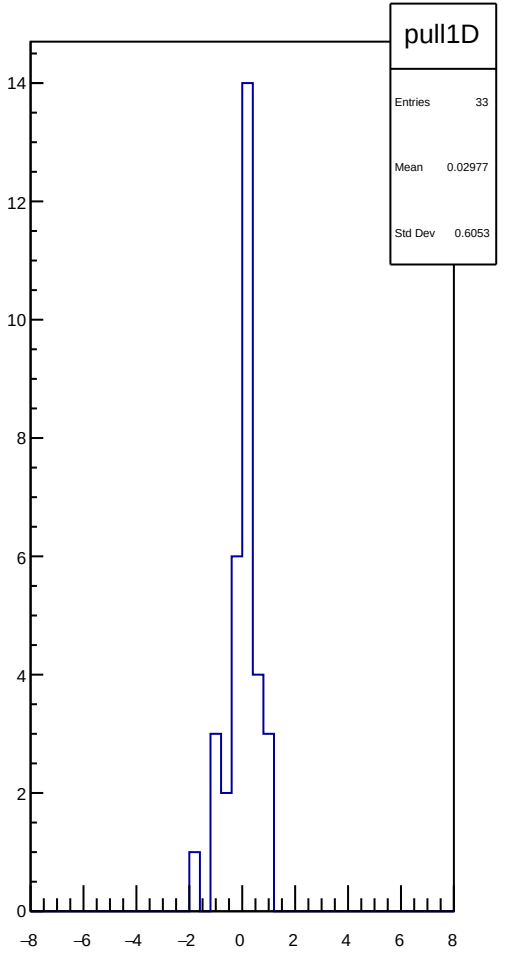

pull1D
Entries 33
Mean 0.01228
Std Dev 0.54
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

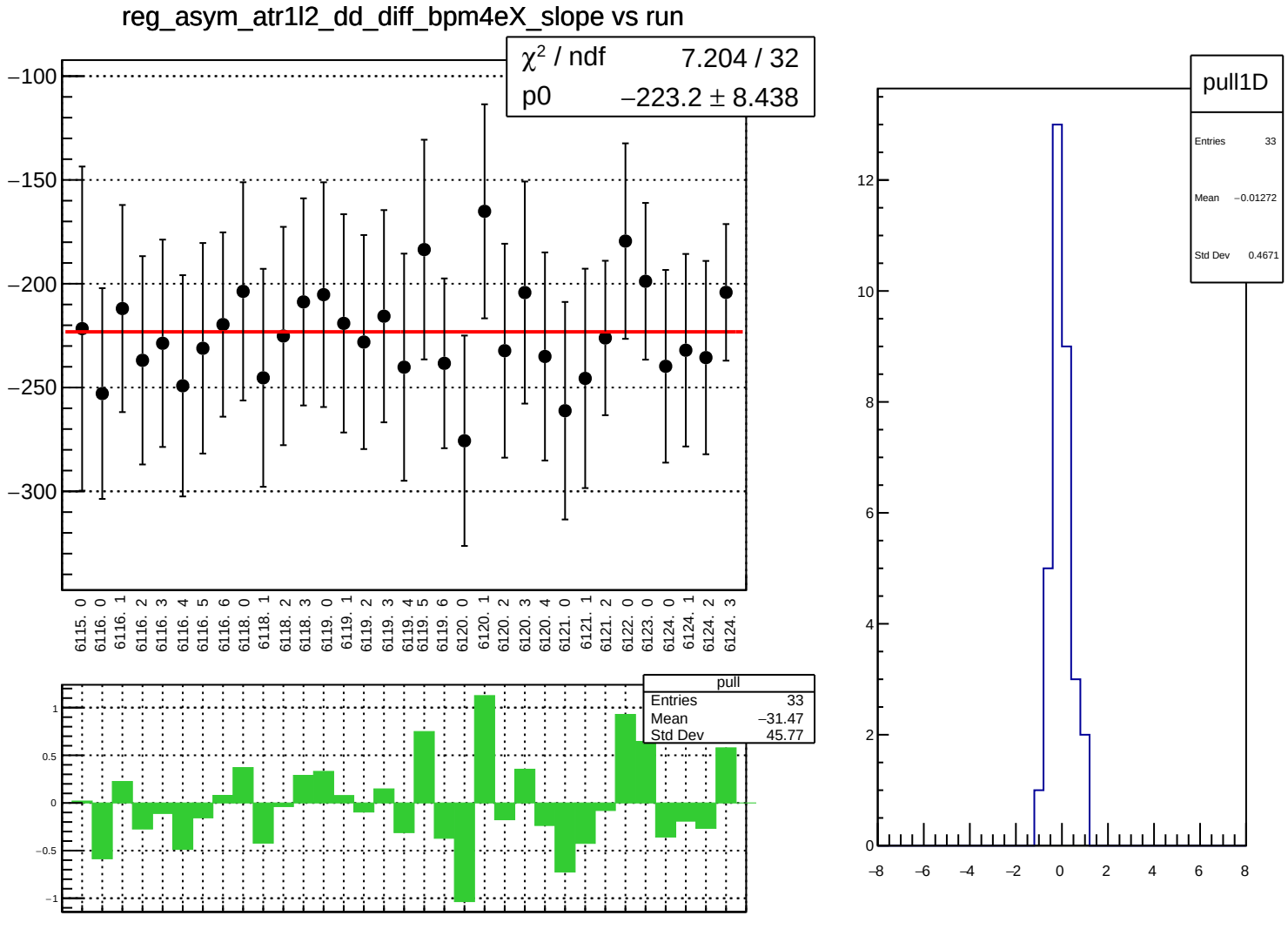

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.59 / 32
p0 −105.7 ± 0.3794
−98
−100
−102
−104
−106
−108
−110
−112
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −24.66
Std Dev 41.64
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03919
Std Dev 0.729
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

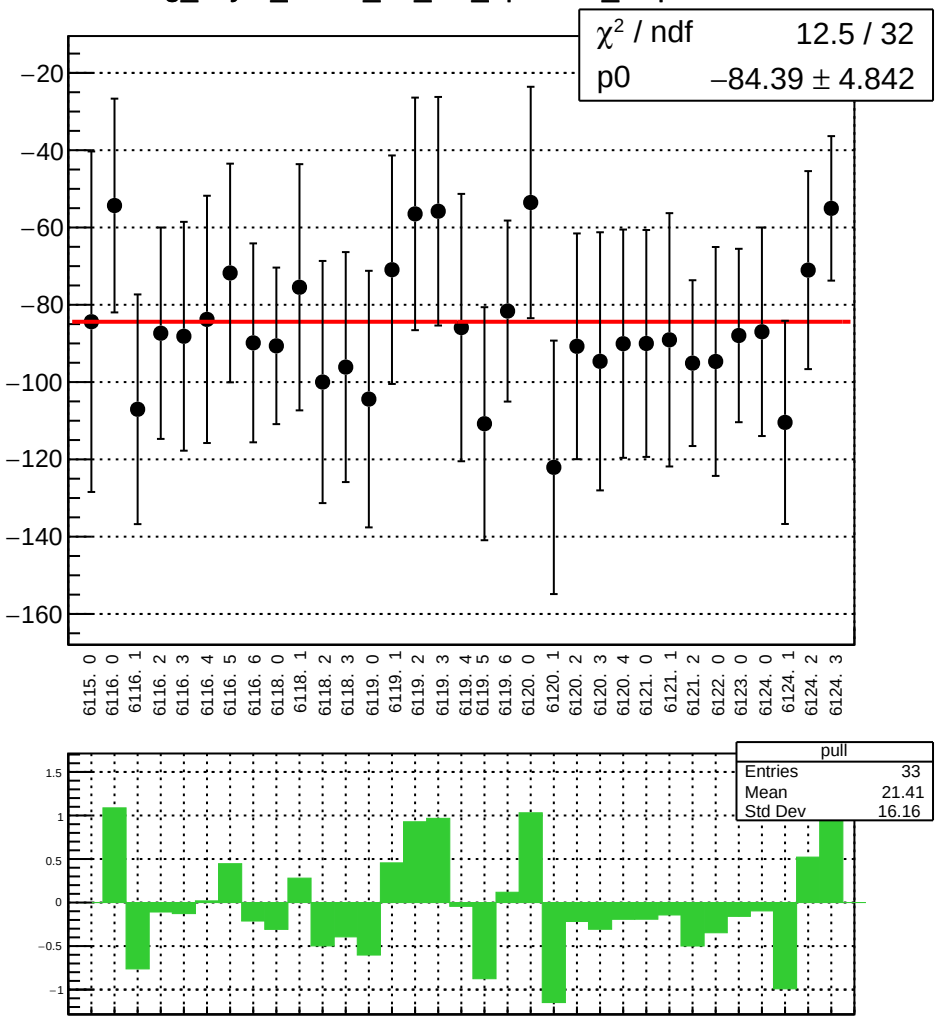

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.032 / 32
p0 174.8 ± 7.252
280
260
240
220
200
180
160
140
120
100
80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −28.85
Std Dev 43.17
1
0.5
0
−0.5
−1

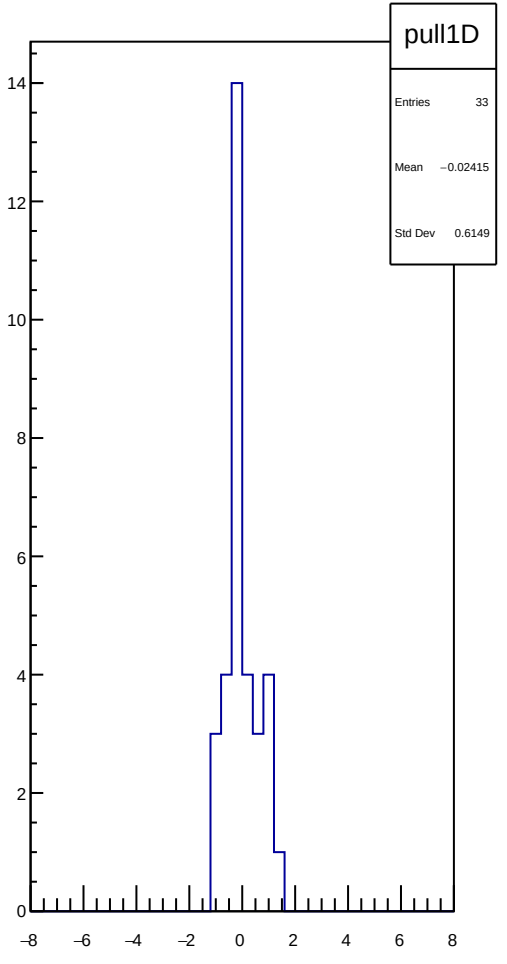

pull1D
Entries 33
Mean 0.01328
Std Dev 0.4614
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

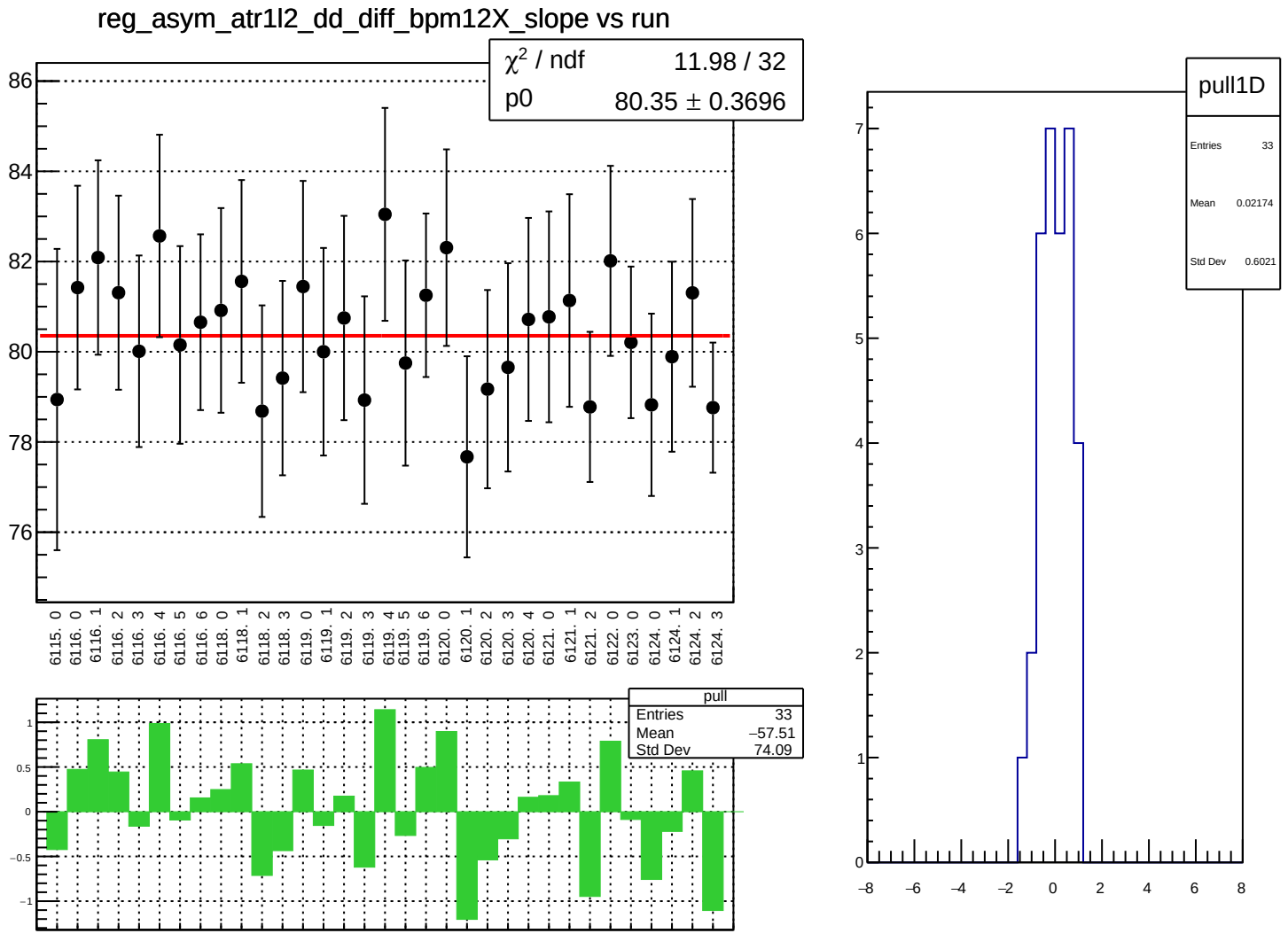

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.12 / 32
p0 22.46 ± 4.531
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 4.356
Std Dev 20.29
1
0.5
0
−0.5
−1
−1.5

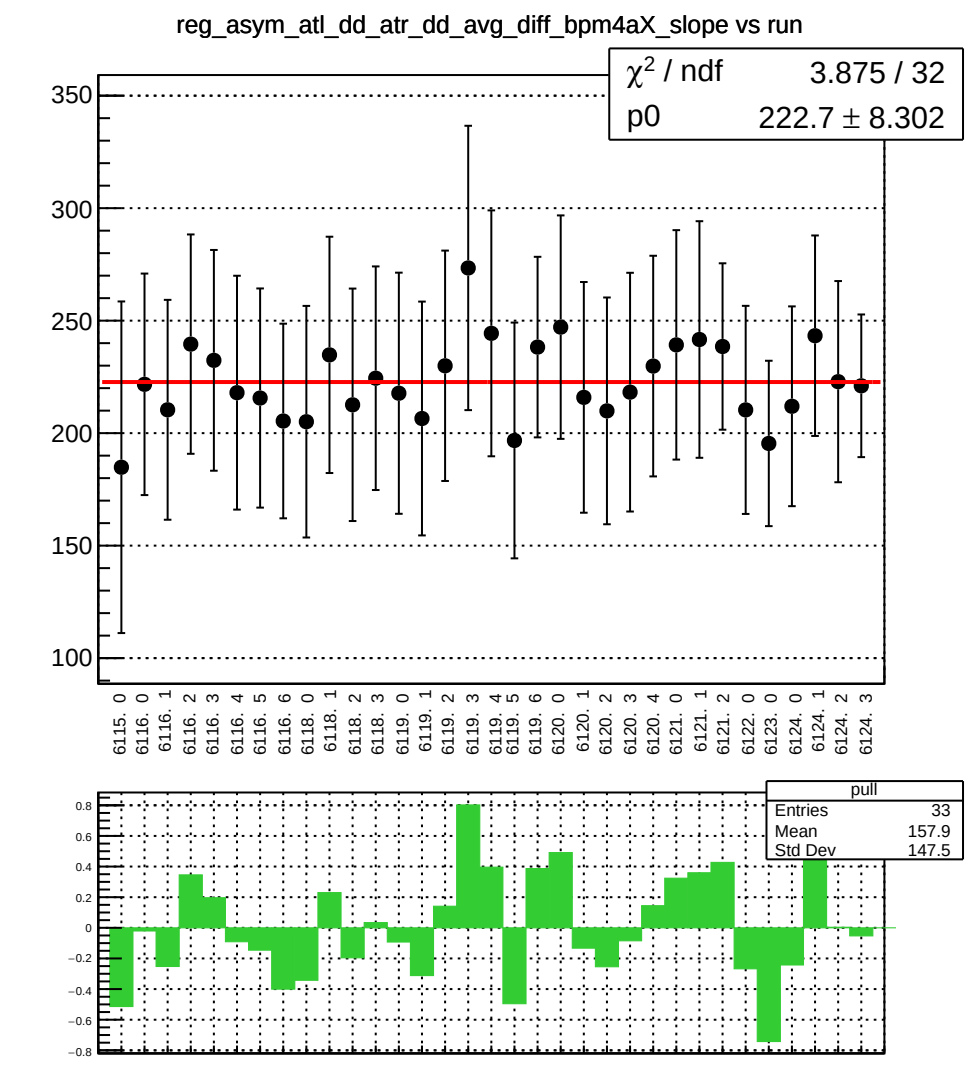

pull1D
Entries 33
Mean 0.02977
Std Dev 0.6053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

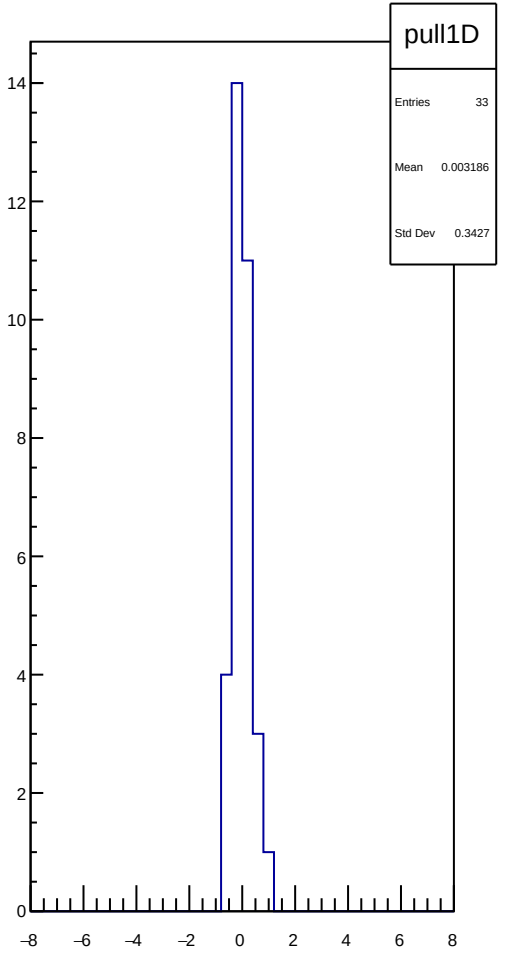

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.204 / 32
p0 −223.2 ± 8.438
−100
−150
−200
−250
−300
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −31.47
Std Dev 45.77
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.01272
Std Dev 0.4671
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

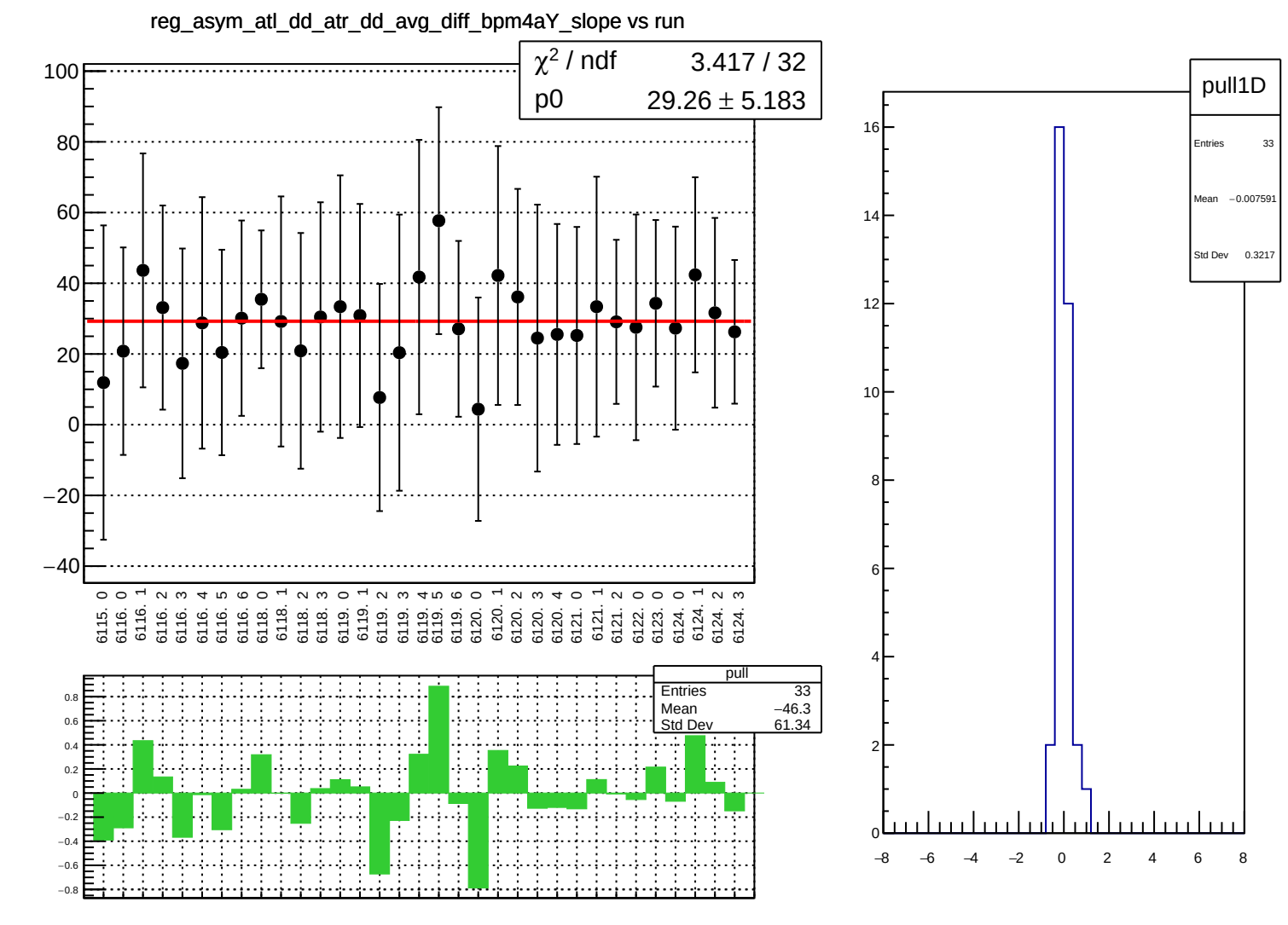

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.5 / 32
p0 −84.39 ± 4.842
−20
−40
−60
−80
−100
−120
−140
−160
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 21.41
Std Dev 16.16
1.5
1
0.5
0
−0.5
−1

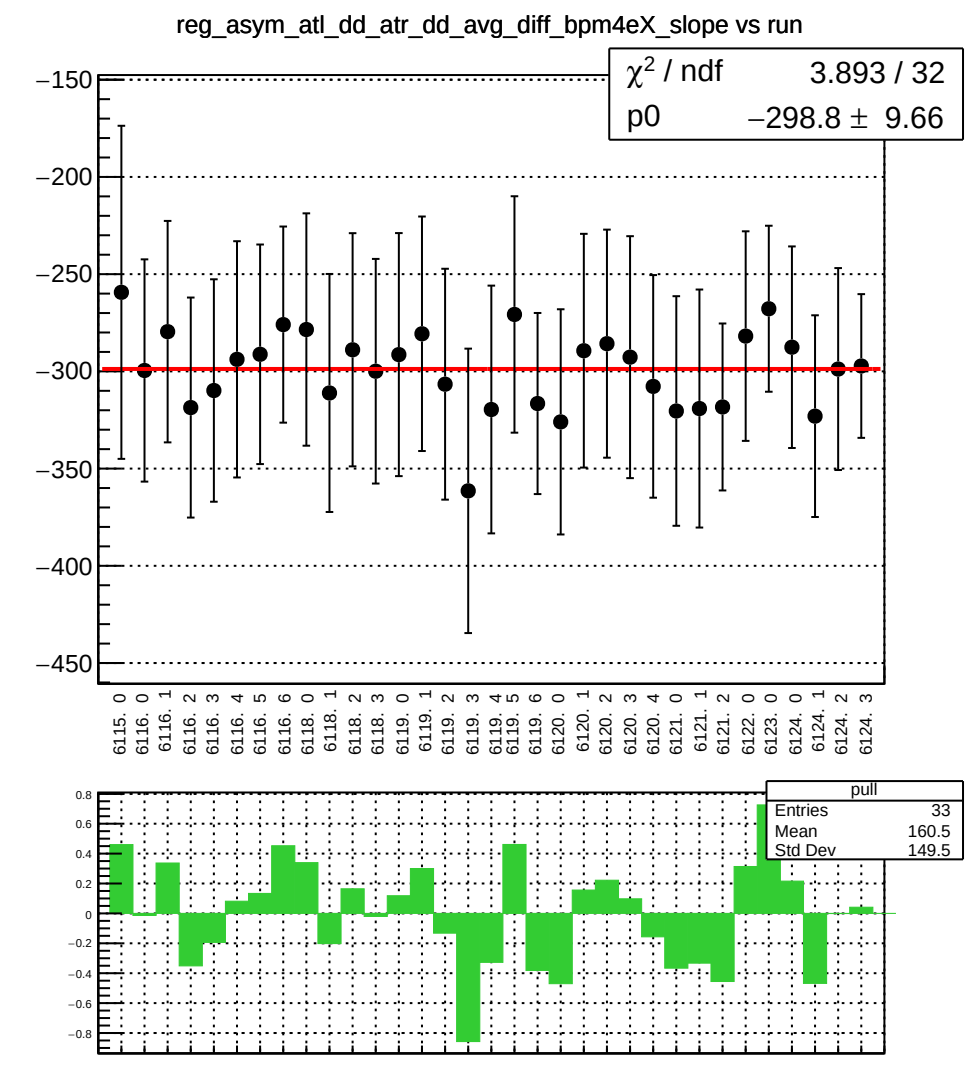

pull1D
Entries 33
Mean −0.02415
Std Dev 0.6149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

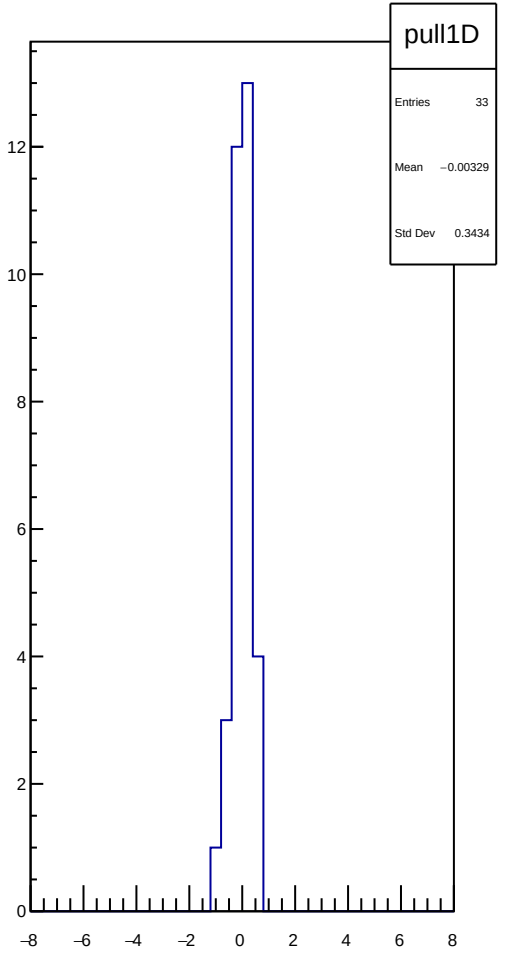

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.98 / 32
p0 80.35 ± 0.3696
86
84
82
80
78
76
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −57.51
Std Dev 74.09
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.02174
Std Dev 0.6021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.875 / 32
p0 222.7 ± 8.302
350
300
250
200
150
100
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 157.9
Std Dev 147.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 33
Mean 0.003186
Std Dev 0.3427
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.417 / 32
p0 29.26 ± 5.183
100
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −46.3
Std Dev 61.34
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.007591
Std Dev 0.3217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.893 / 32
p0 −298.8 ± 9.66
−150
−200
−250
−300
−350
−400
−450
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 160.5
Std Dev 149.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 33
Mean −0.00329
Std Dev 0.3434
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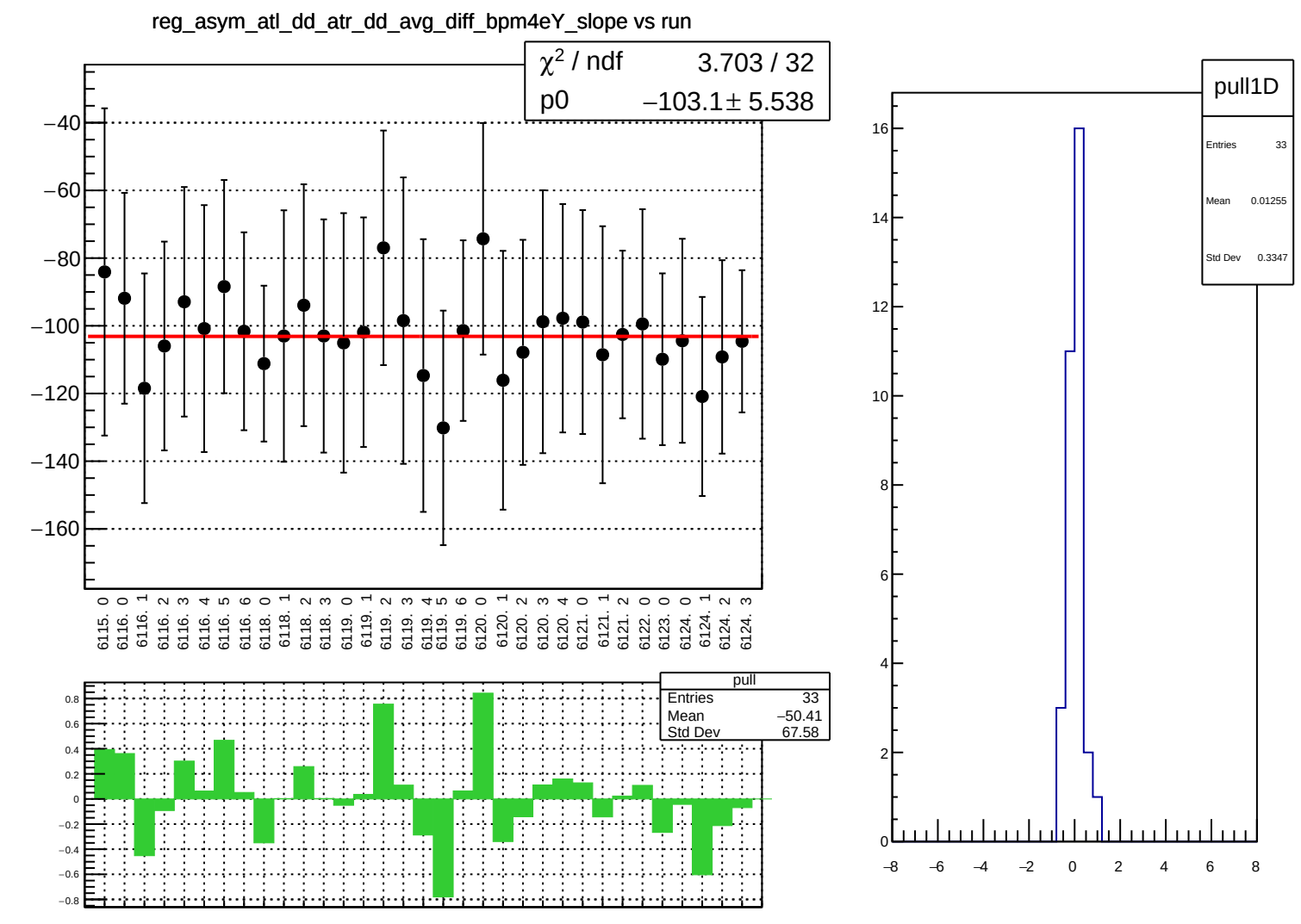
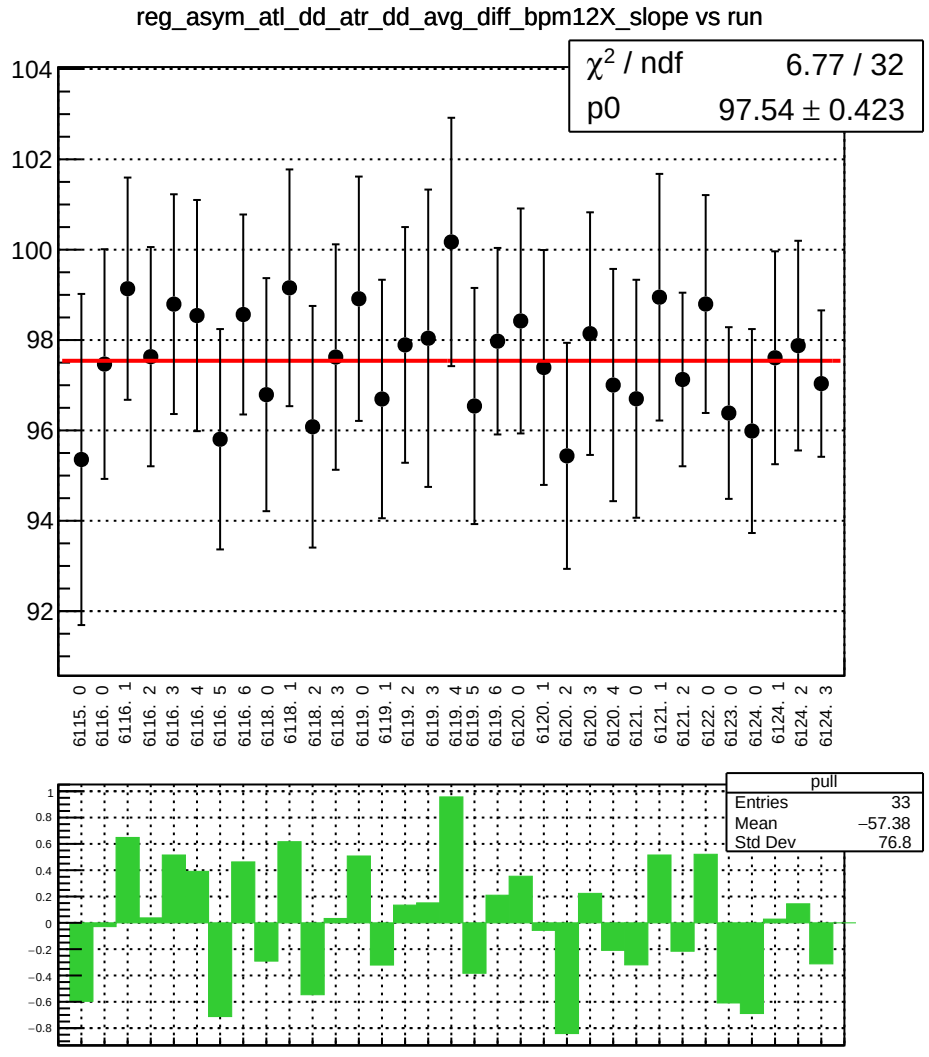
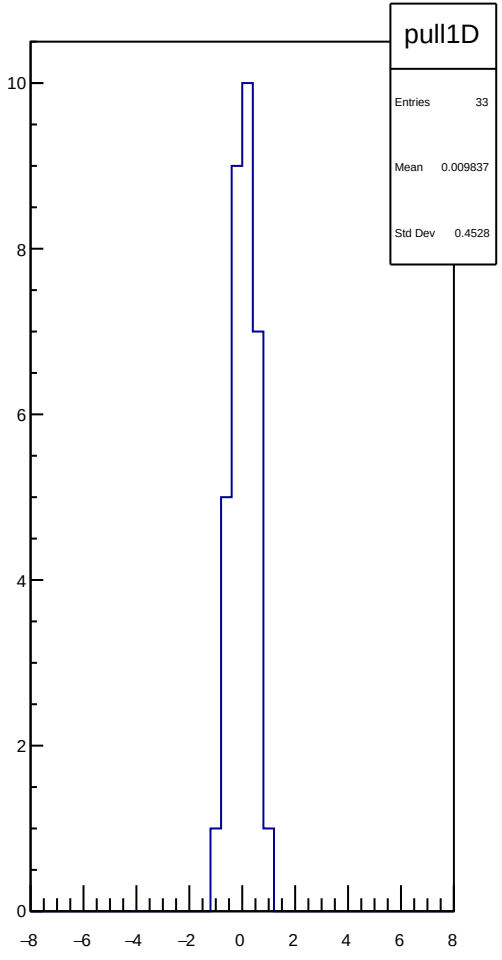
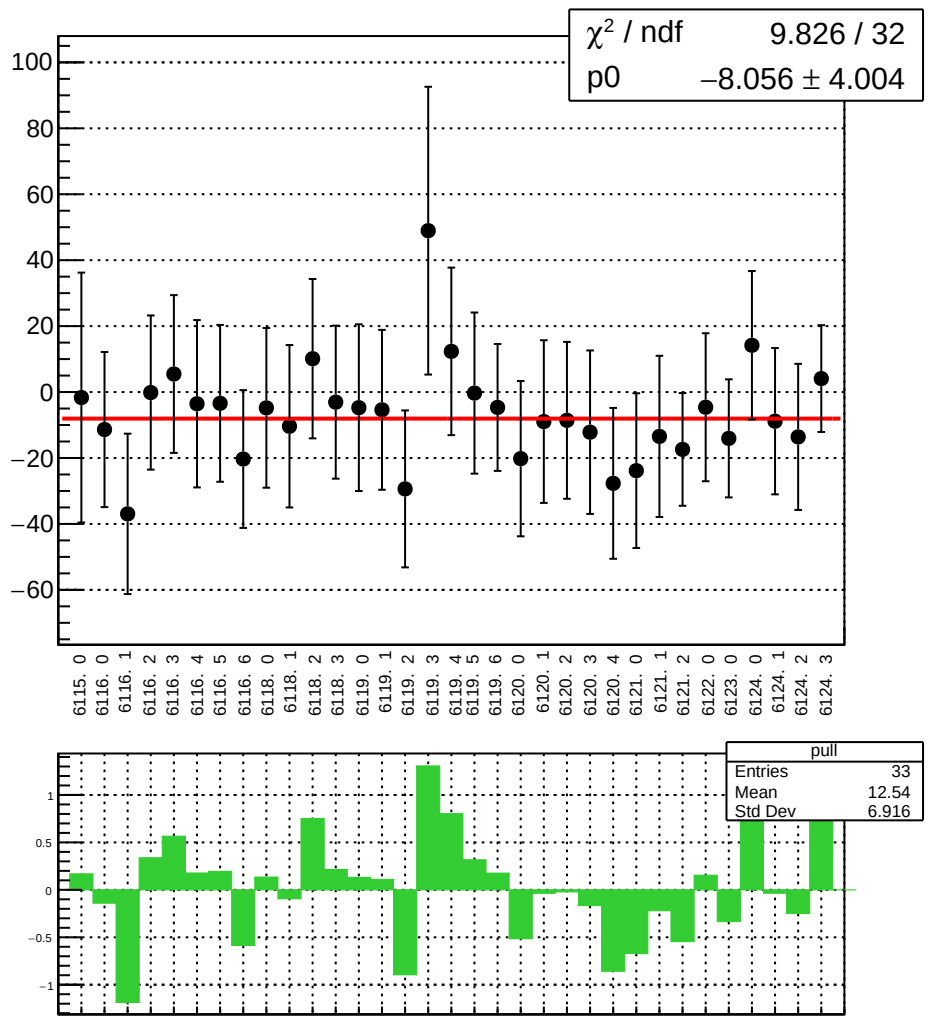
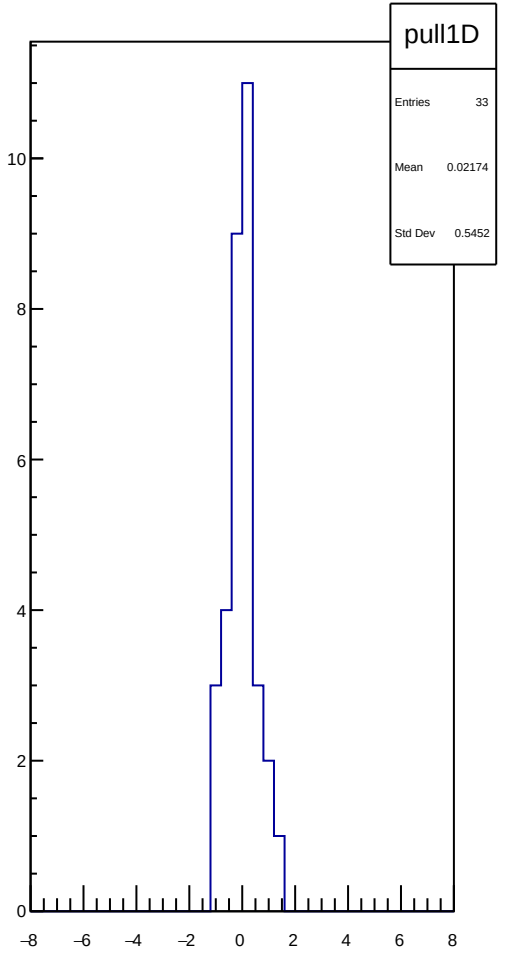
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

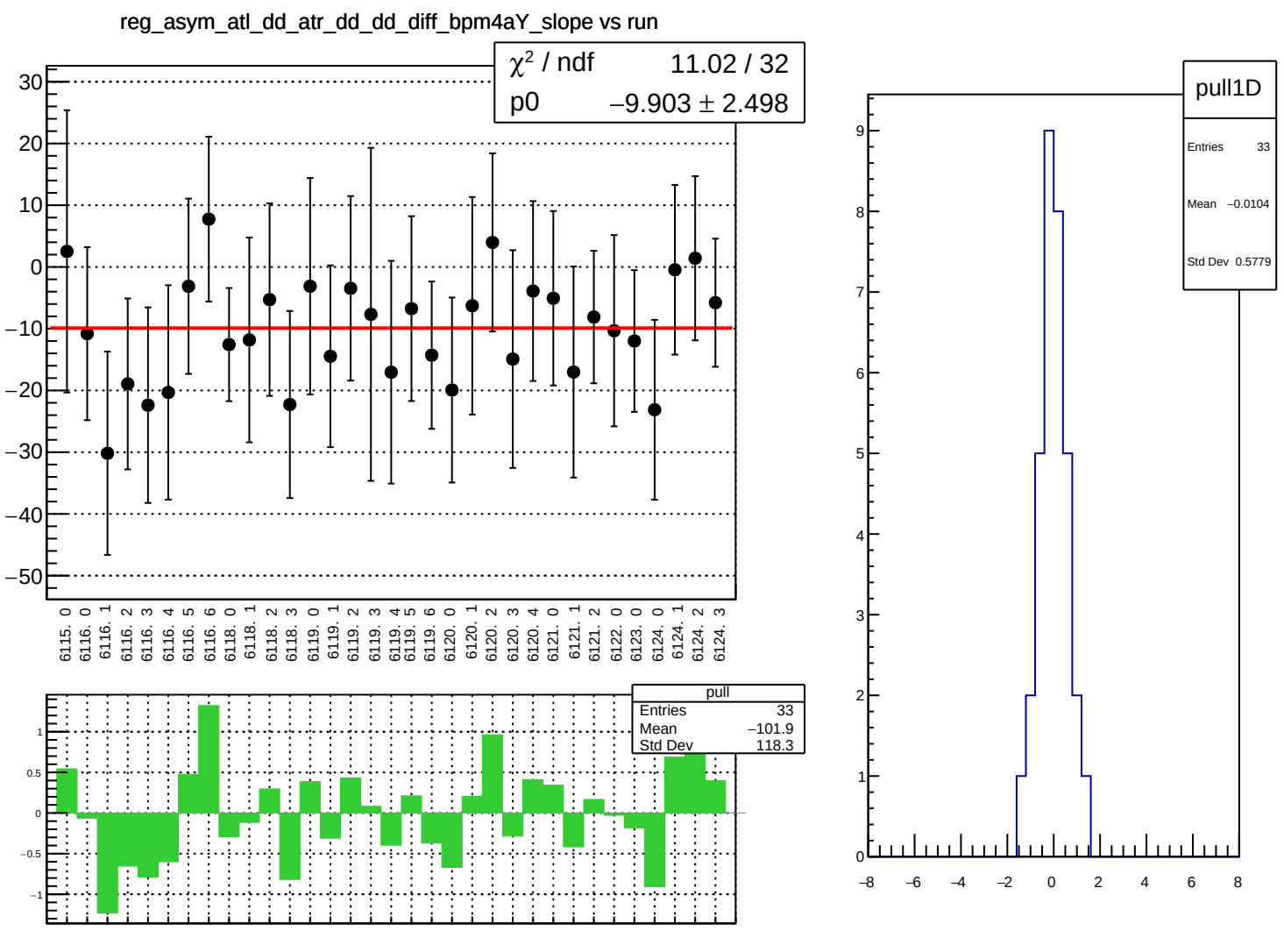

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.703 / 32
p0 −103.1± 5.538
−40
−60
−80
−100
−120
−140
−160
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −50.41
Std Dev 67.58
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean 0.01255
Std Dev 0.3347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

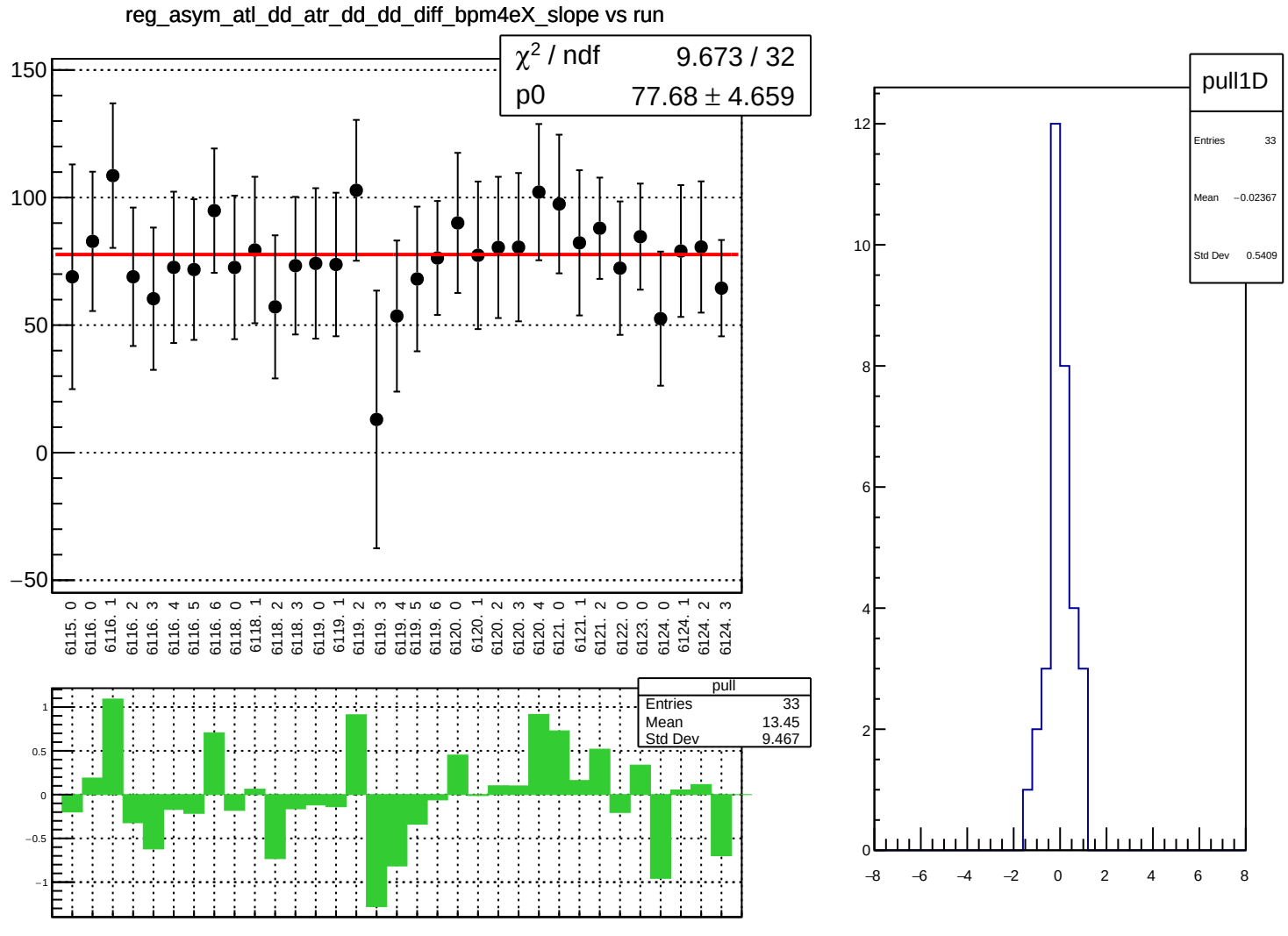

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 6.77 / 32
p0 97.54 ± 0.423
104
102
100
98
96
94
92
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −57.38
Std Dev 76.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

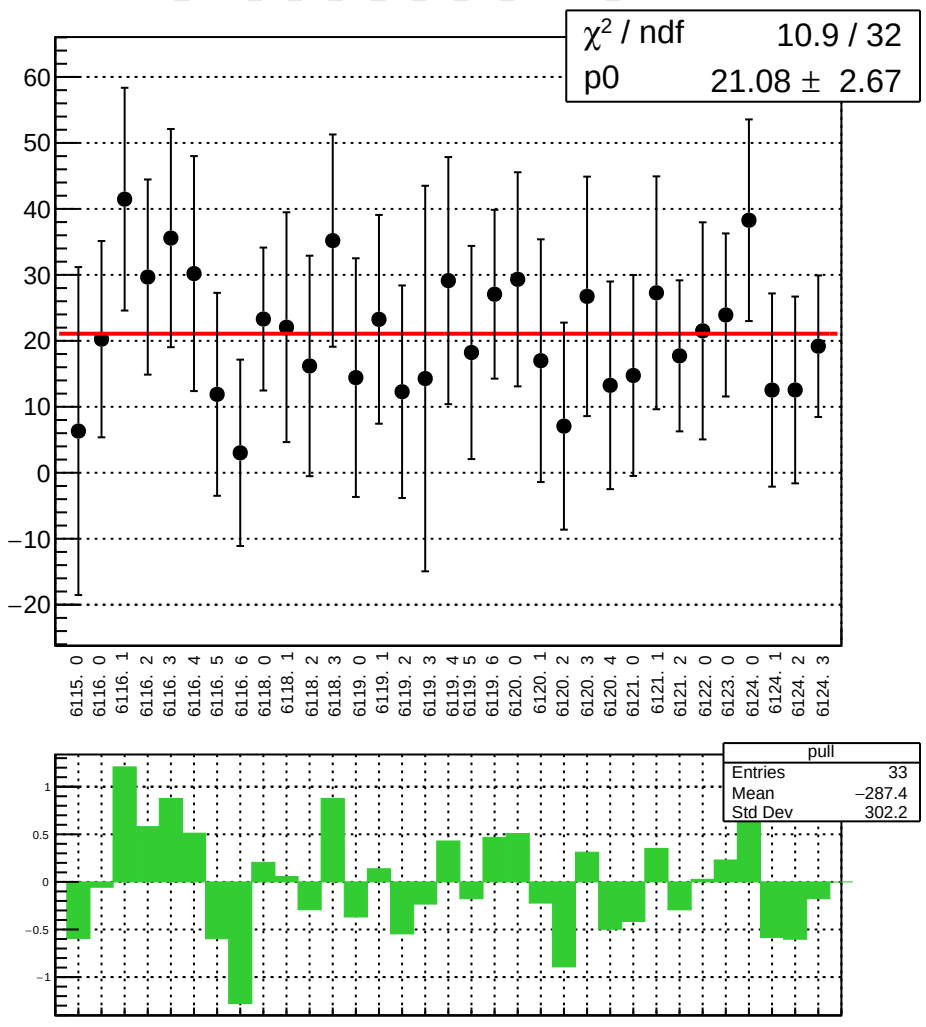

pull1D
Entries 33
Mean 0.009837
Std Dev 0.4528
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

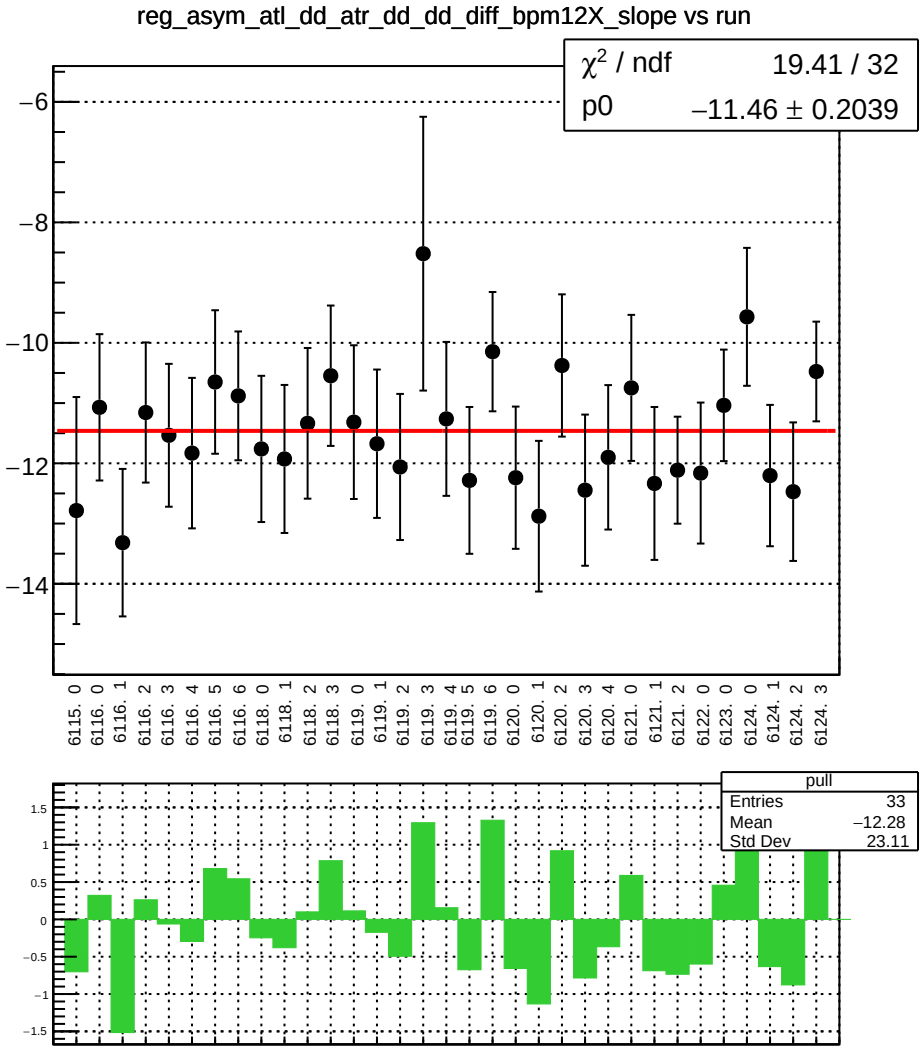

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.826 / 32
p0 −8.056 ± 4.004
100
80
60
40
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 12.54
Std Dev 6.916
1
0.5
0
−0.5
−1

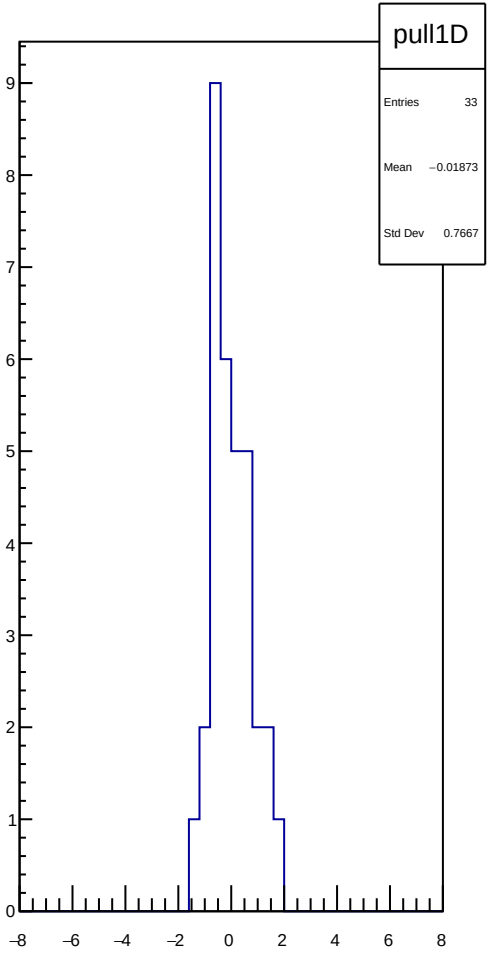

pull1D
Entries 33
Mean 0.02174
Std Dev 0.5452
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

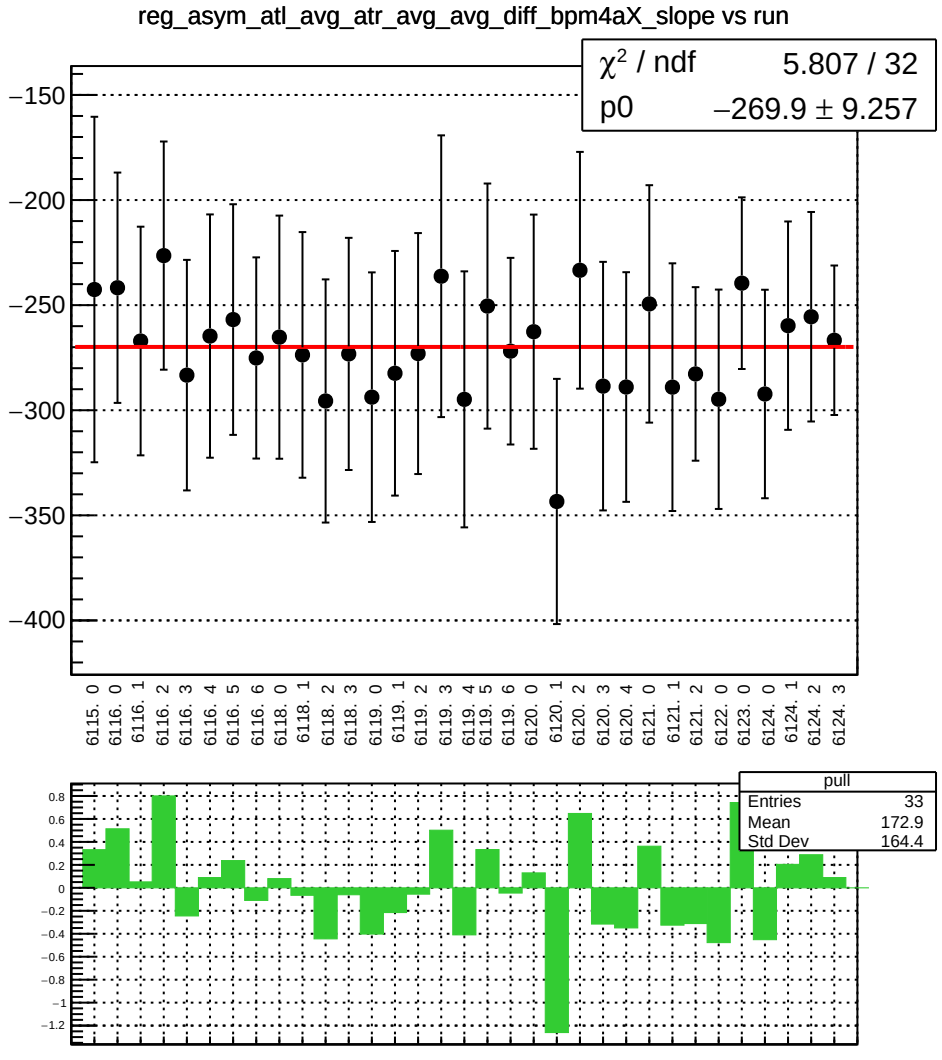

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 32
p0 −9.903 ± 2.498
30
20
10
0
−10
−20
−30
−40
−50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −101.9
Std Dev 118.3
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.0104
Std Dev 0.5779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

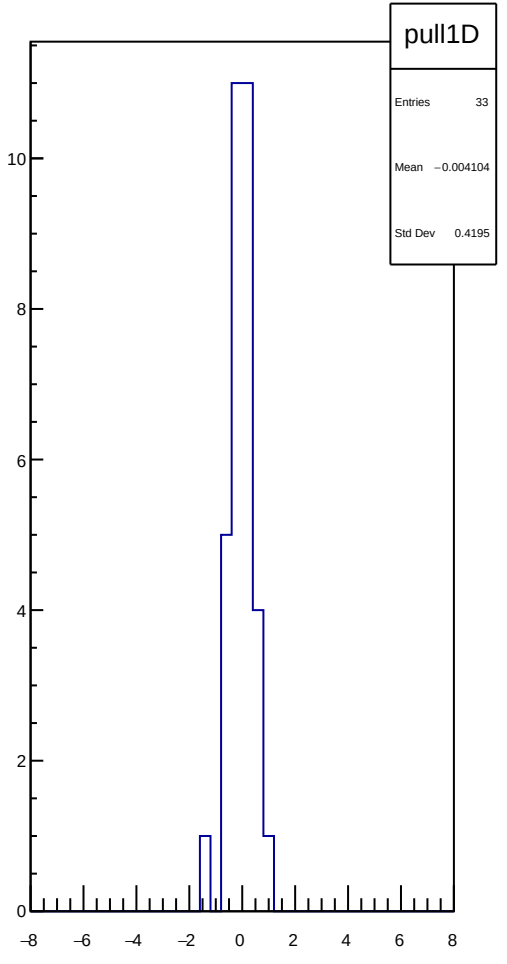

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.673 / 32
p0 77.68 ± 4.659
150
100
50
0
−50
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 13.45
Std Dev 9.467
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.02367
Std Dev 0.5409
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

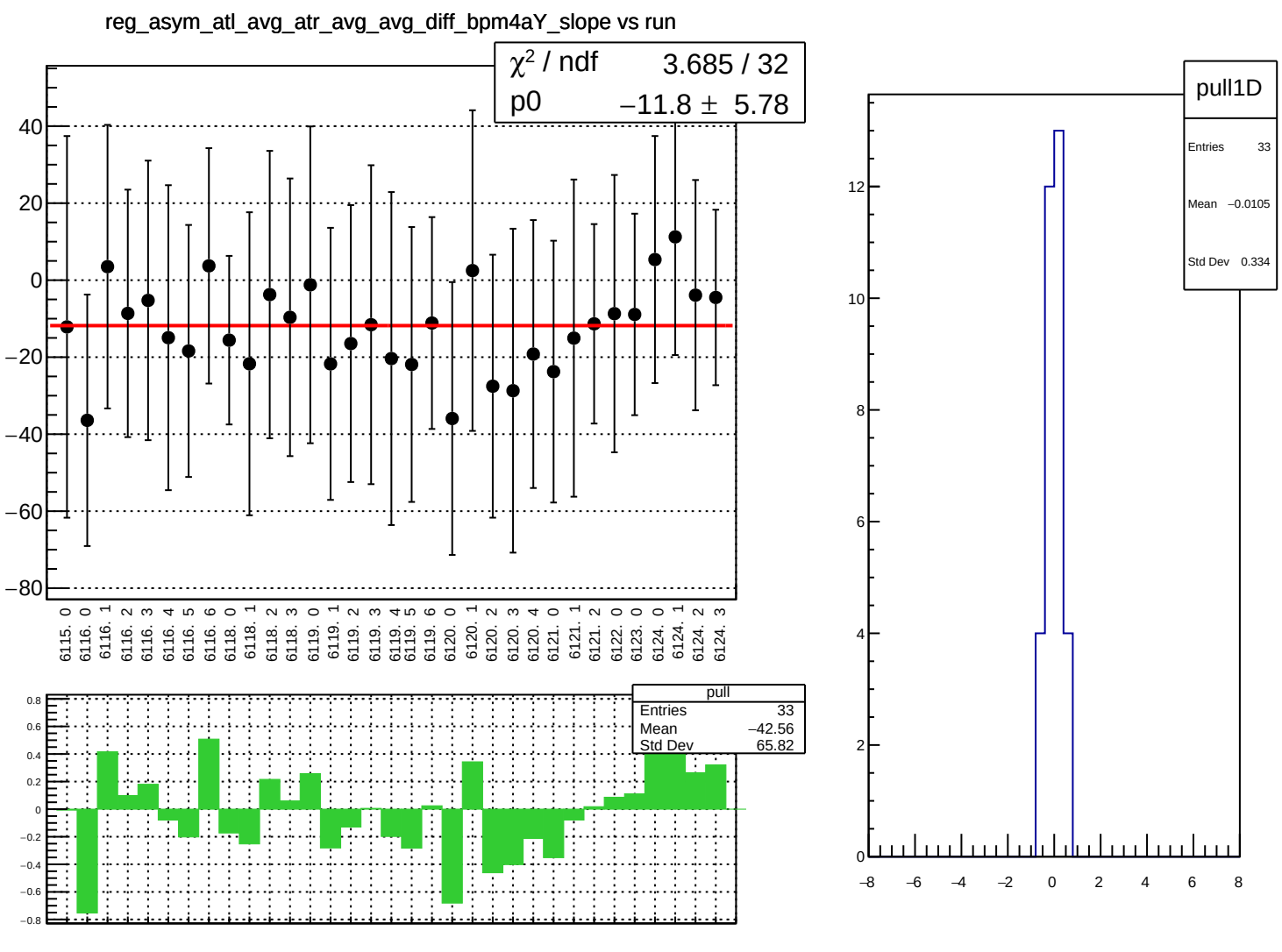

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.9 / 32
p0 21.08 ± 2.67
pull
Entries 33
Mean −287.4
Std Dev 302.2
pull1D
Entries 33
Mean 0.002513
Std Dev 0.5747

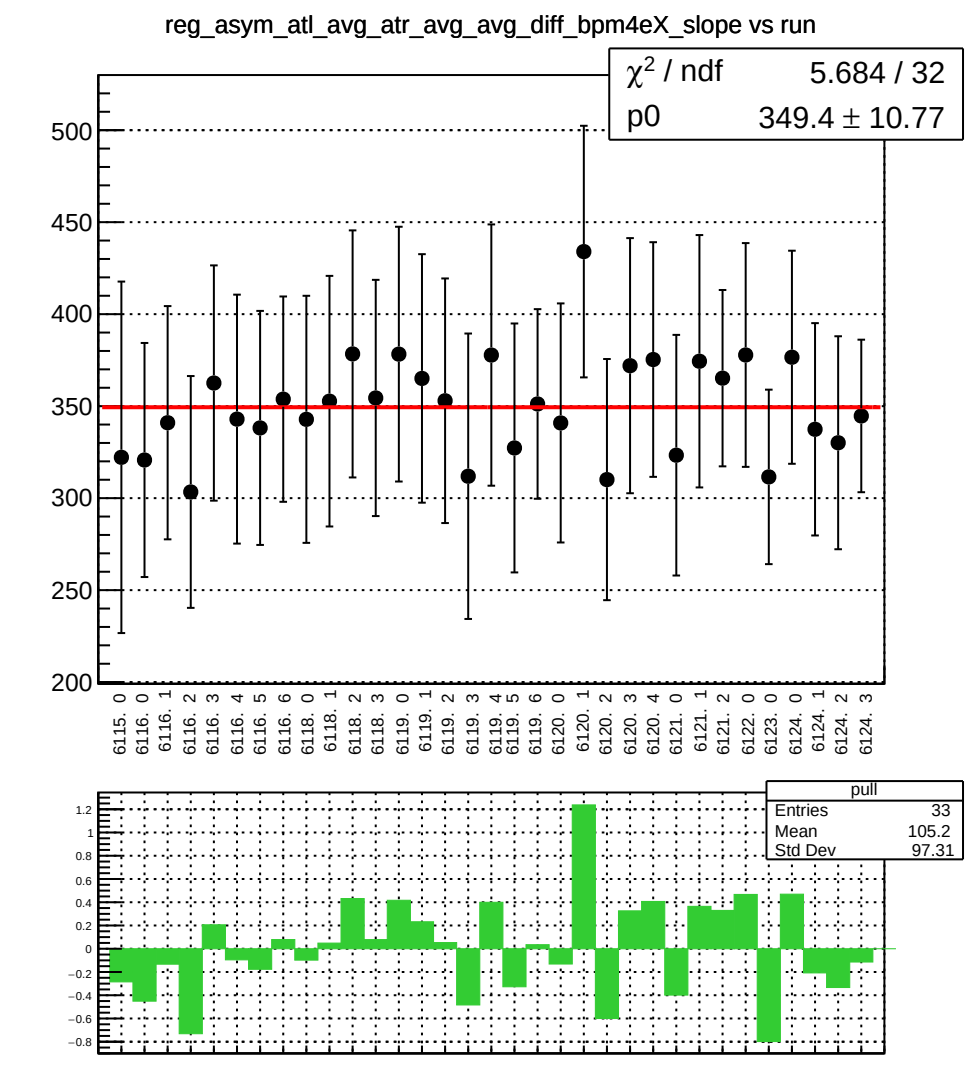

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 19.41 / 32
p0 −11.46 ± 0.2039
−6
−8
−10
−12
−14
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −12.28
Std Dev 23.11
1.5
1
0.5
0
−0.5
−1
−1.5

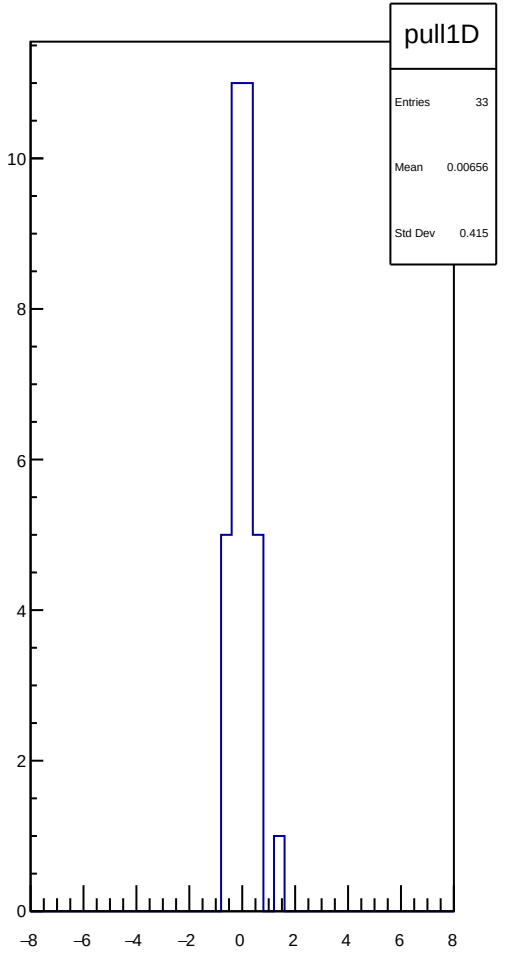

pull1D
Entries 33
Mean −0.01873
Std Dev 0.7667
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

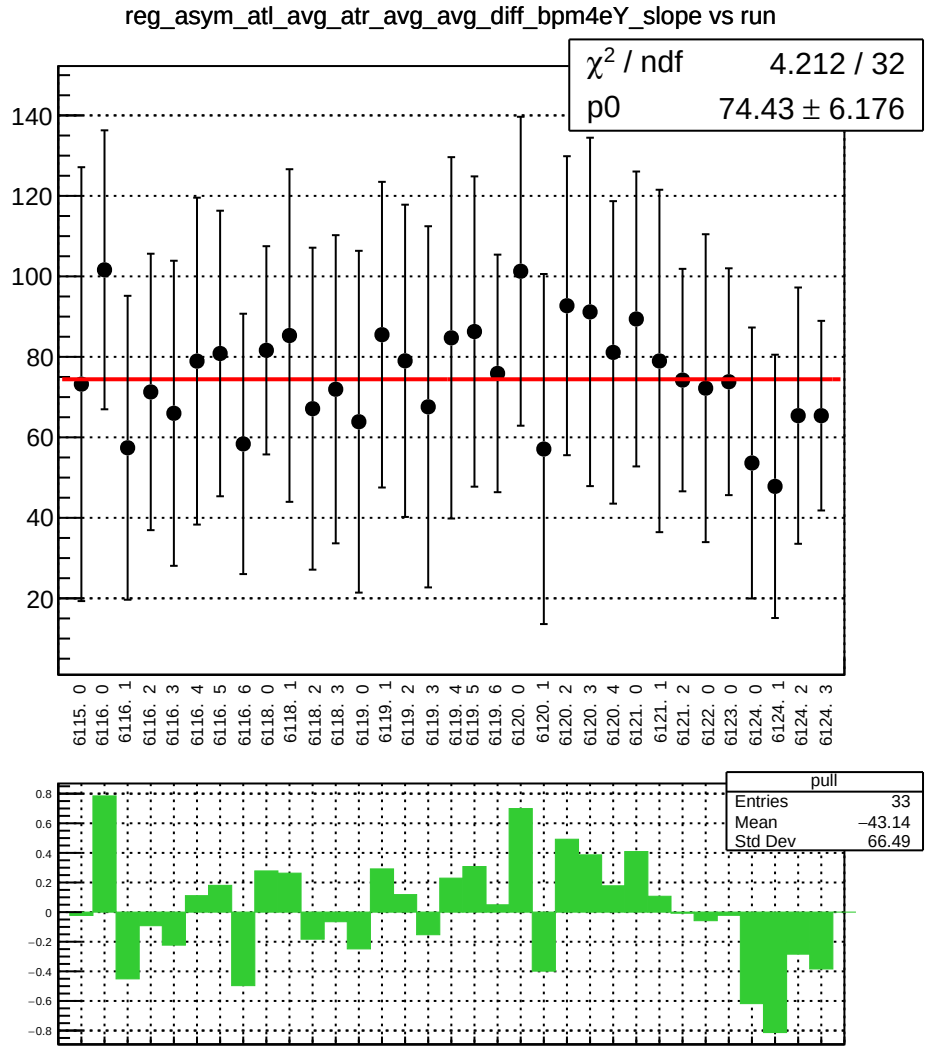

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.807 / 32
p0 −269.9 ± 9.257
−150
−200
−250
−300
−350
−400
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 172.9
Std Dev 164.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

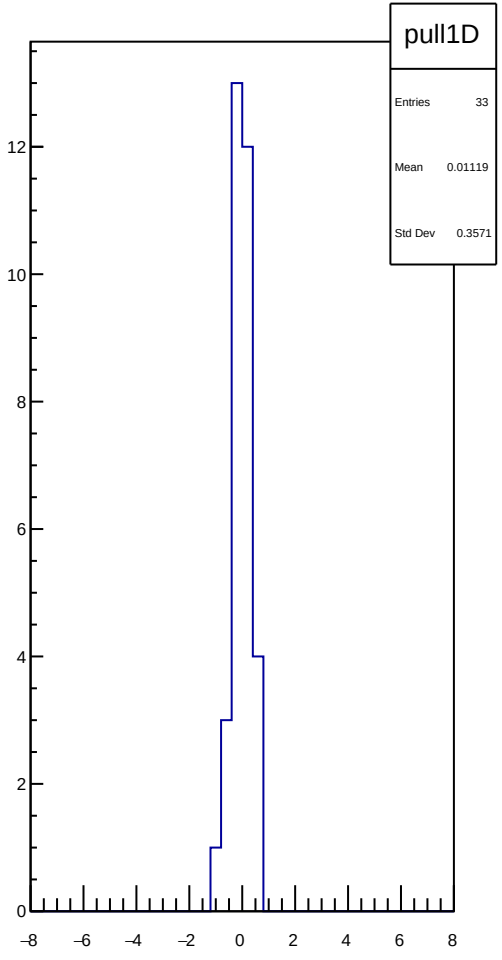

pull1D
Entries 33
Mean −0.004104
Std Dev 0.4195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

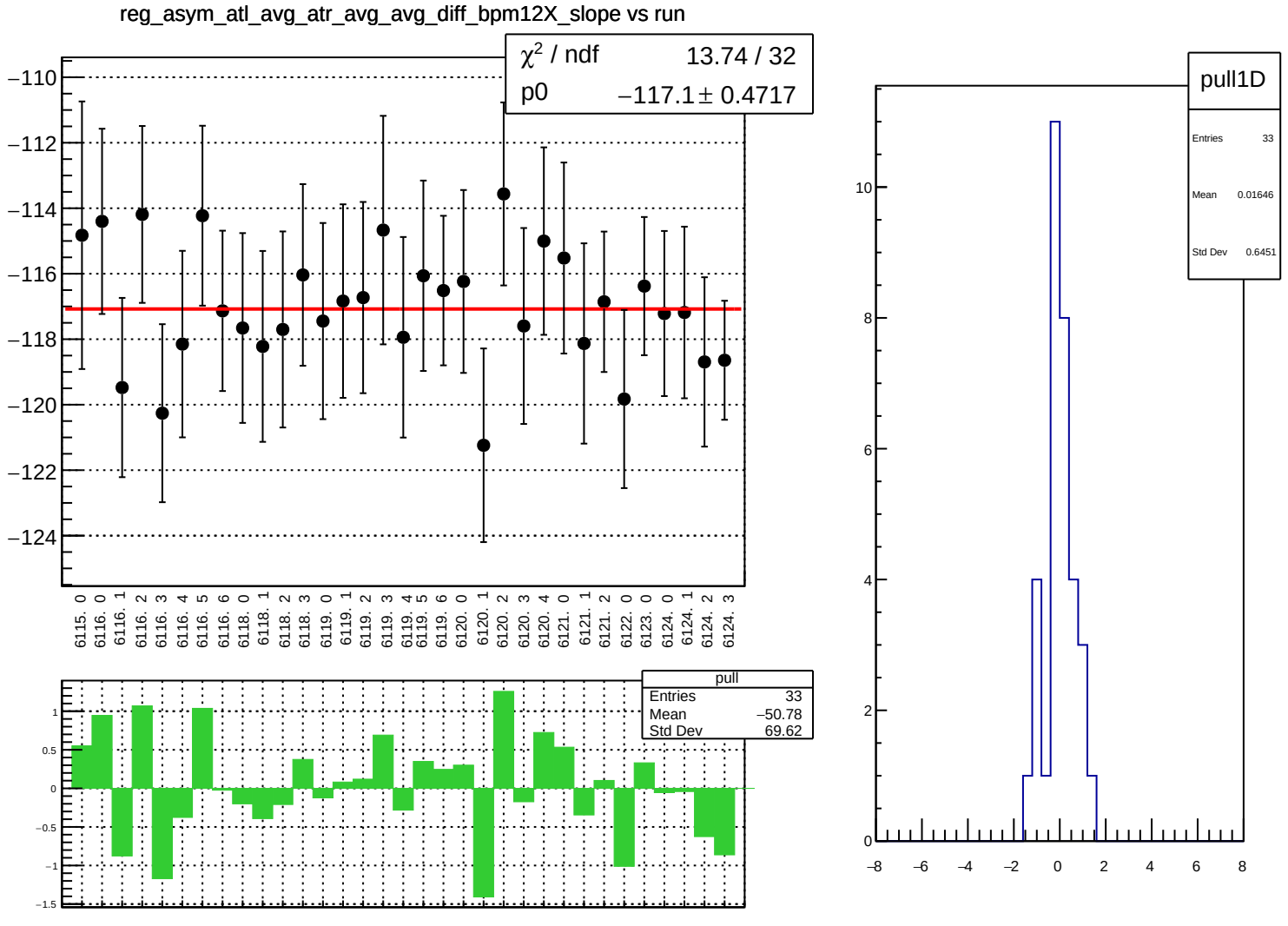

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.685 / 32
p0 −11.8 ± 5.78
40
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −42.56
Std Dev 65.82
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.0105
Std Dev 0.334
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

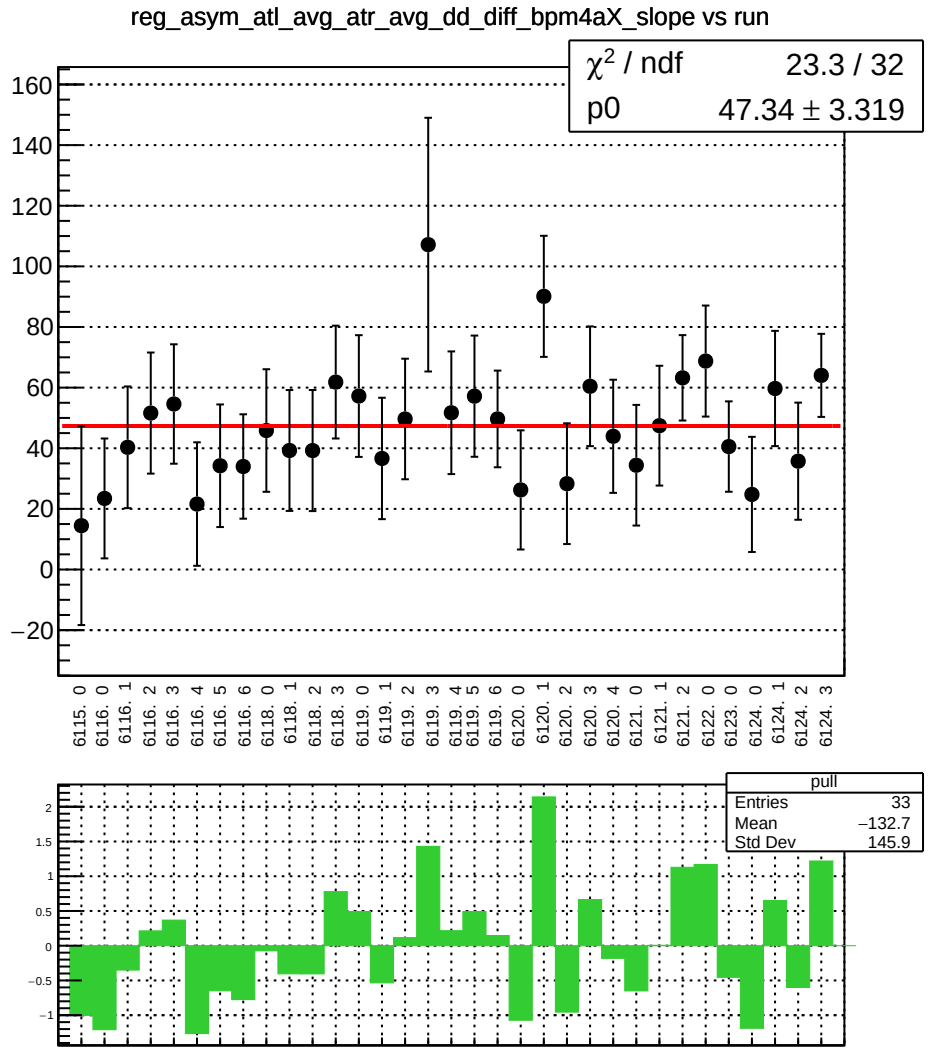

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.684 / 32
p0 349.4 ± 10.77
500
450
400
350
300
250
200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 105.2
Std Dev 97.31
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

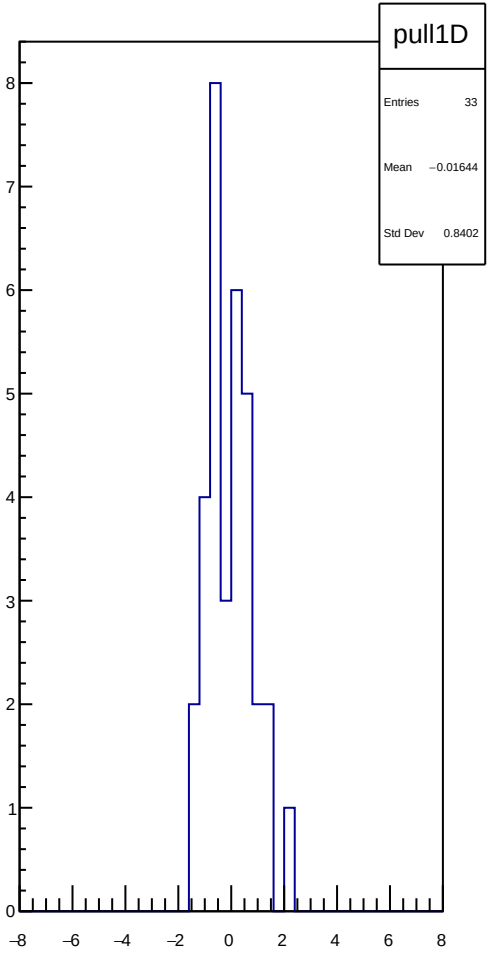

pull1D
Entries 33
Mean 0.00656
Std Dev 0.415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

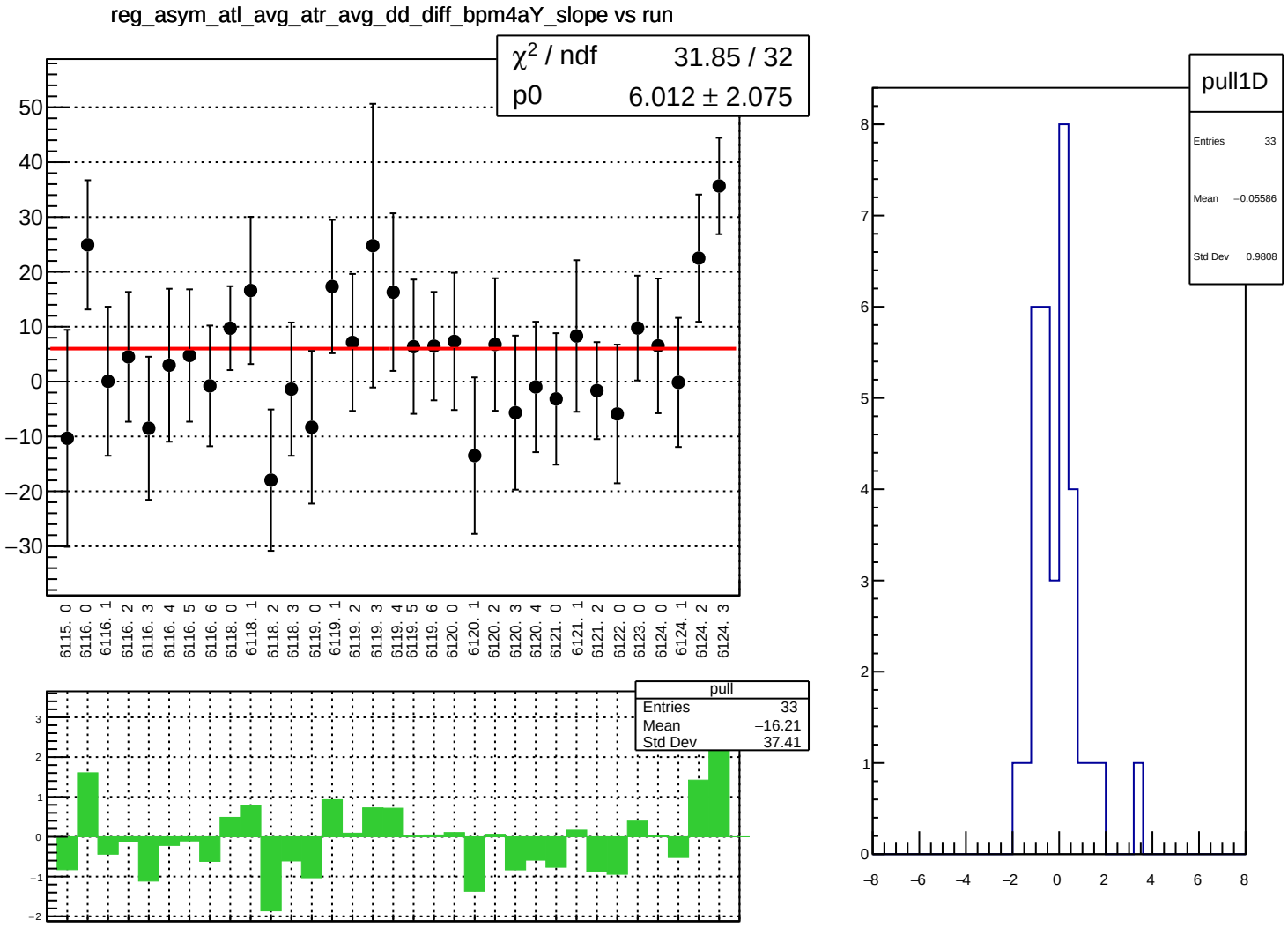

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.212 / 32
p0 74.43 ± 6.176
140
120
100
80
60
40
20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −43.14
Std Dev 66.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

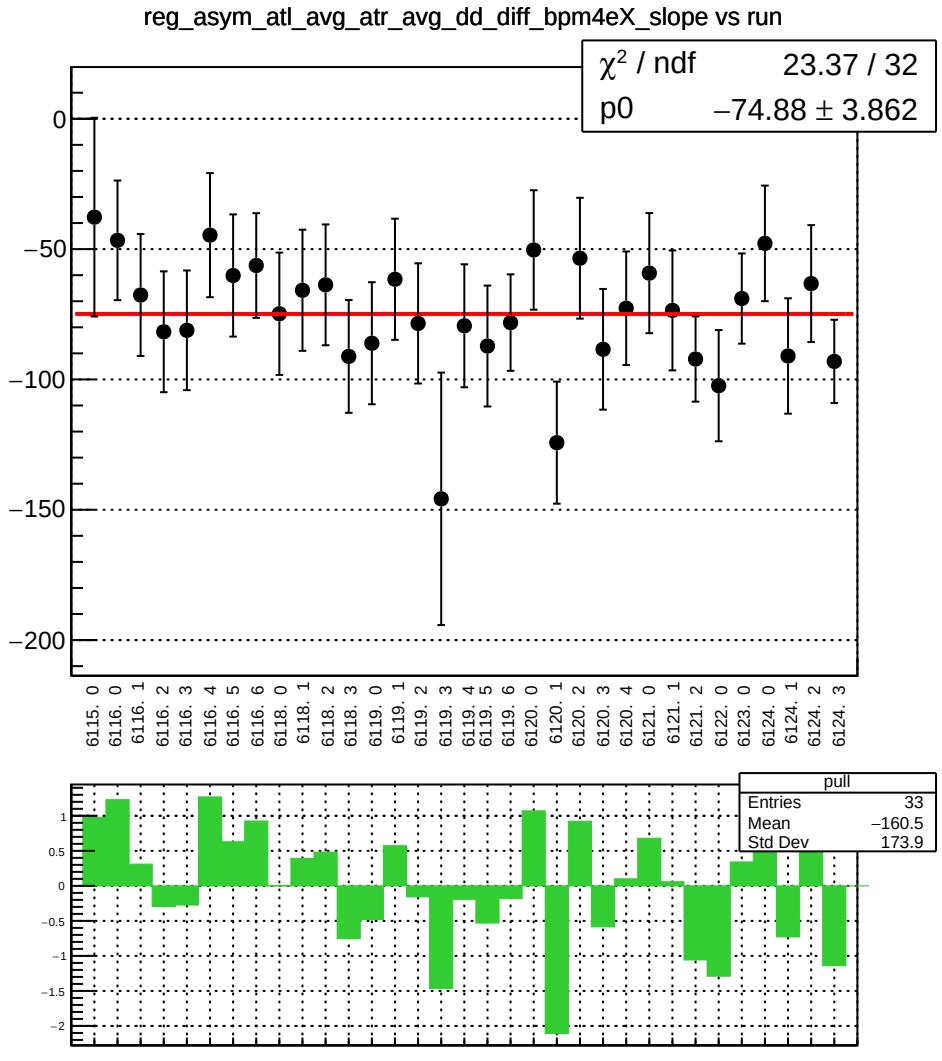

pull1D
Entries 33
Mean 0.01119
Std Dev 0.3571
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

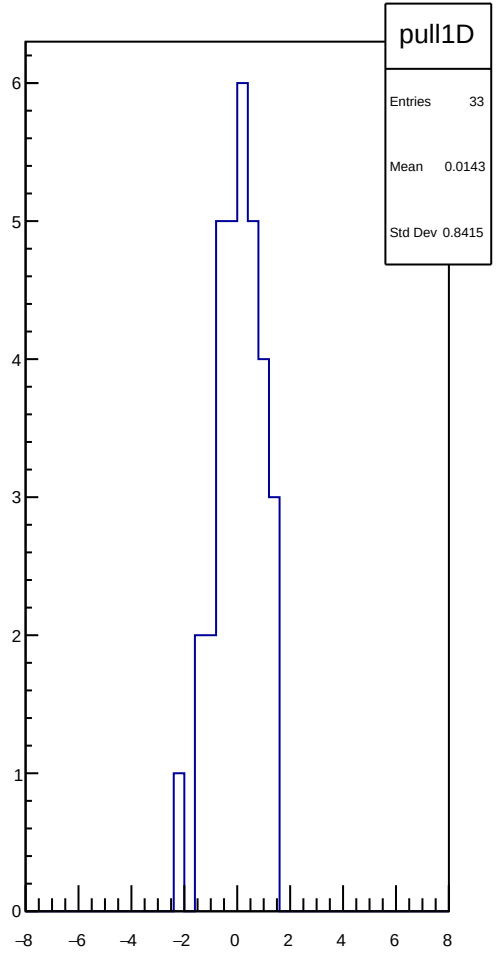

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 13.74 / 32
p0 −117.1 ± 0.4717
−110
−112
−114
−116
−118
−120
−122
−124
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −50.78
Std Dev 69.62
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01646
Std Dev 0.6451
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

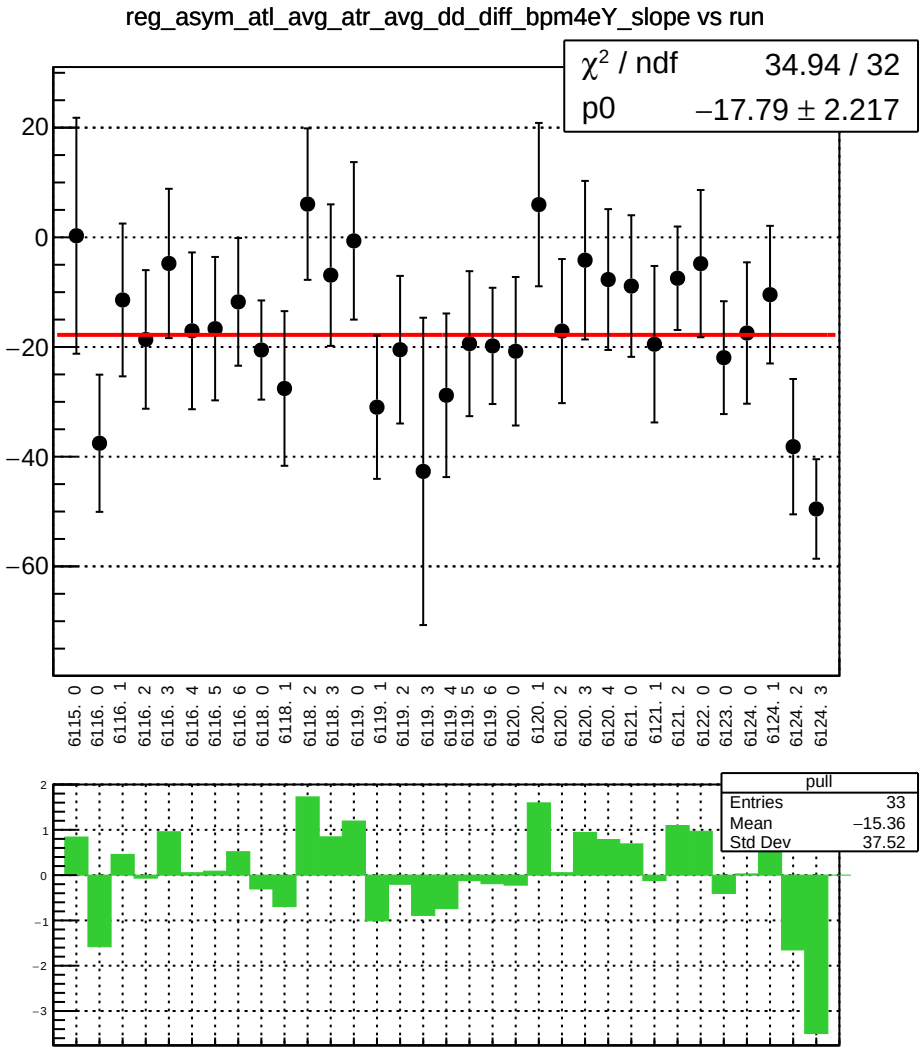

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 23.3 / 32
p0 47.34 ± 3.319
160
140
120
100
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −132.7
Std Dev 145.9
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 33
Mean −0.01644
Std Dev 0.8402
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.85 / 32
p0 6.012 ± 2.075
50
40
30
20
10
0
−10
−20
−30
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −16.21
Std Dev 37.41
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.05586
Std Dev 0.9808
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.37 / 32
p0 −74.88 ± 3.862
0
−50
−100
−150
−200
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −160.5
Std Dev 173.9
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 33
Mean 0.0143
Std Dev 0.8415
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.94 / 32
p0 −17.79 ± 2.217
20
0
−20
−40
−60
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
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6121. 2
6122. 0
6123. 0
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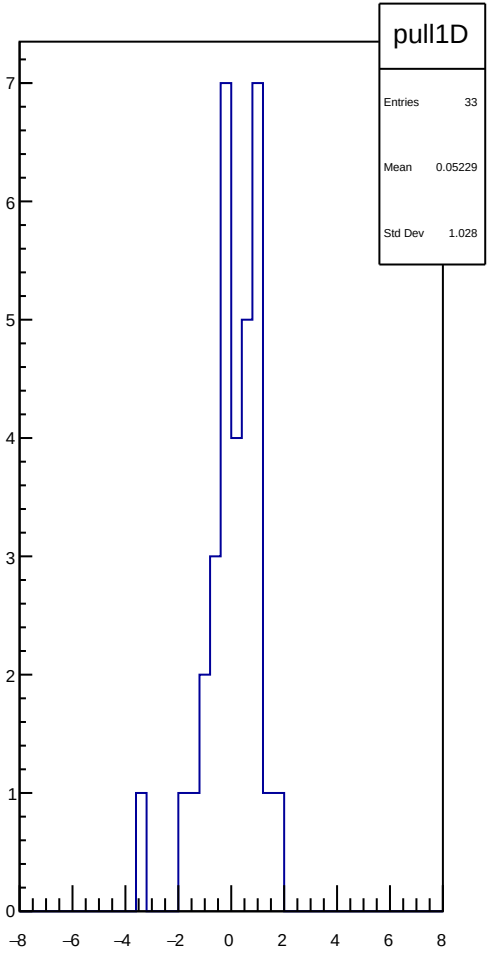
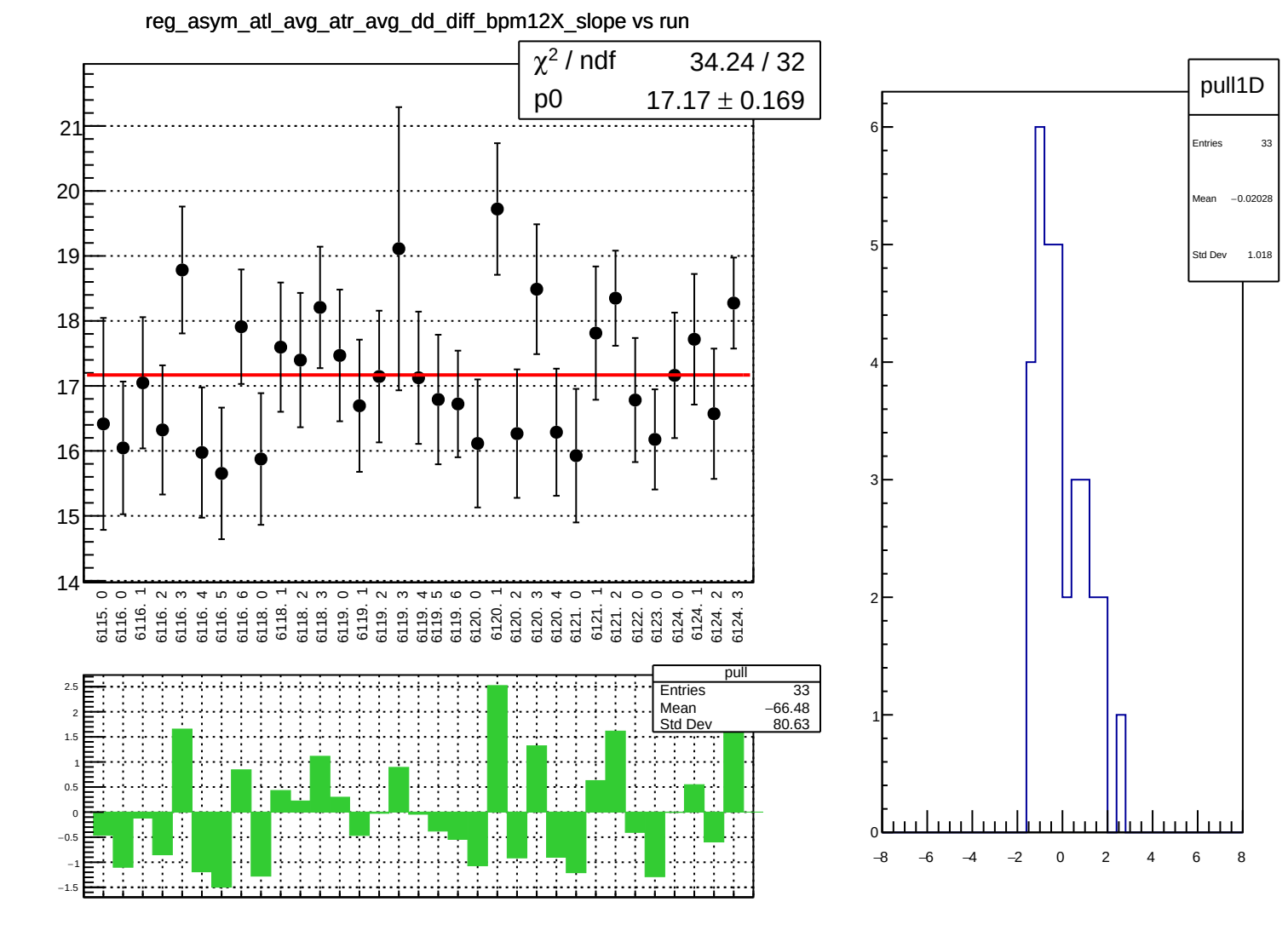
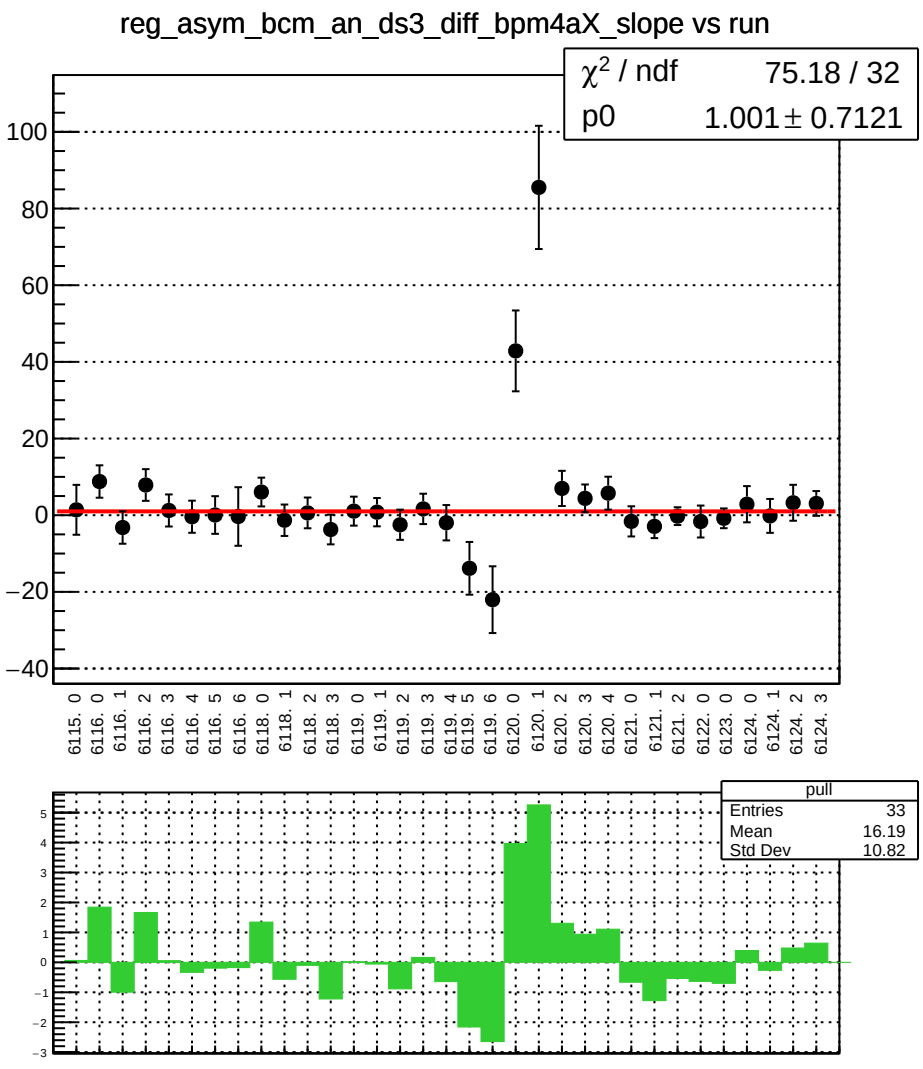
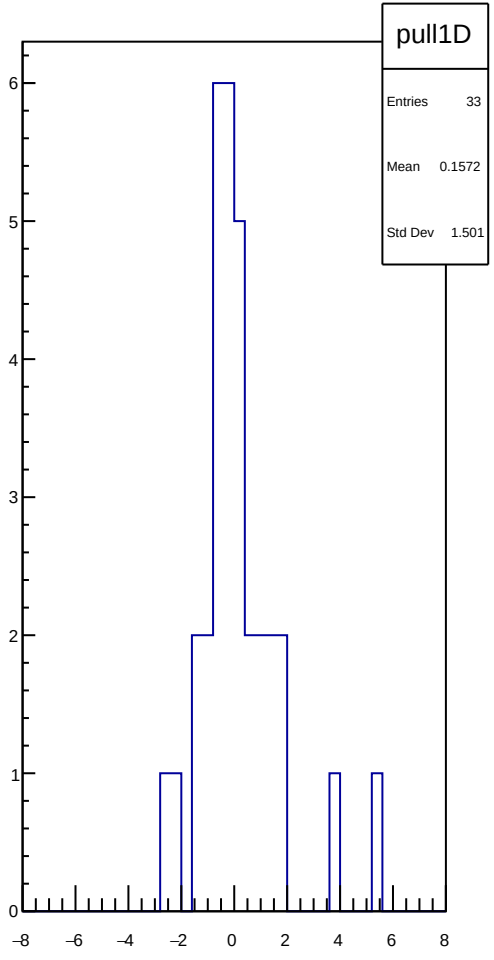
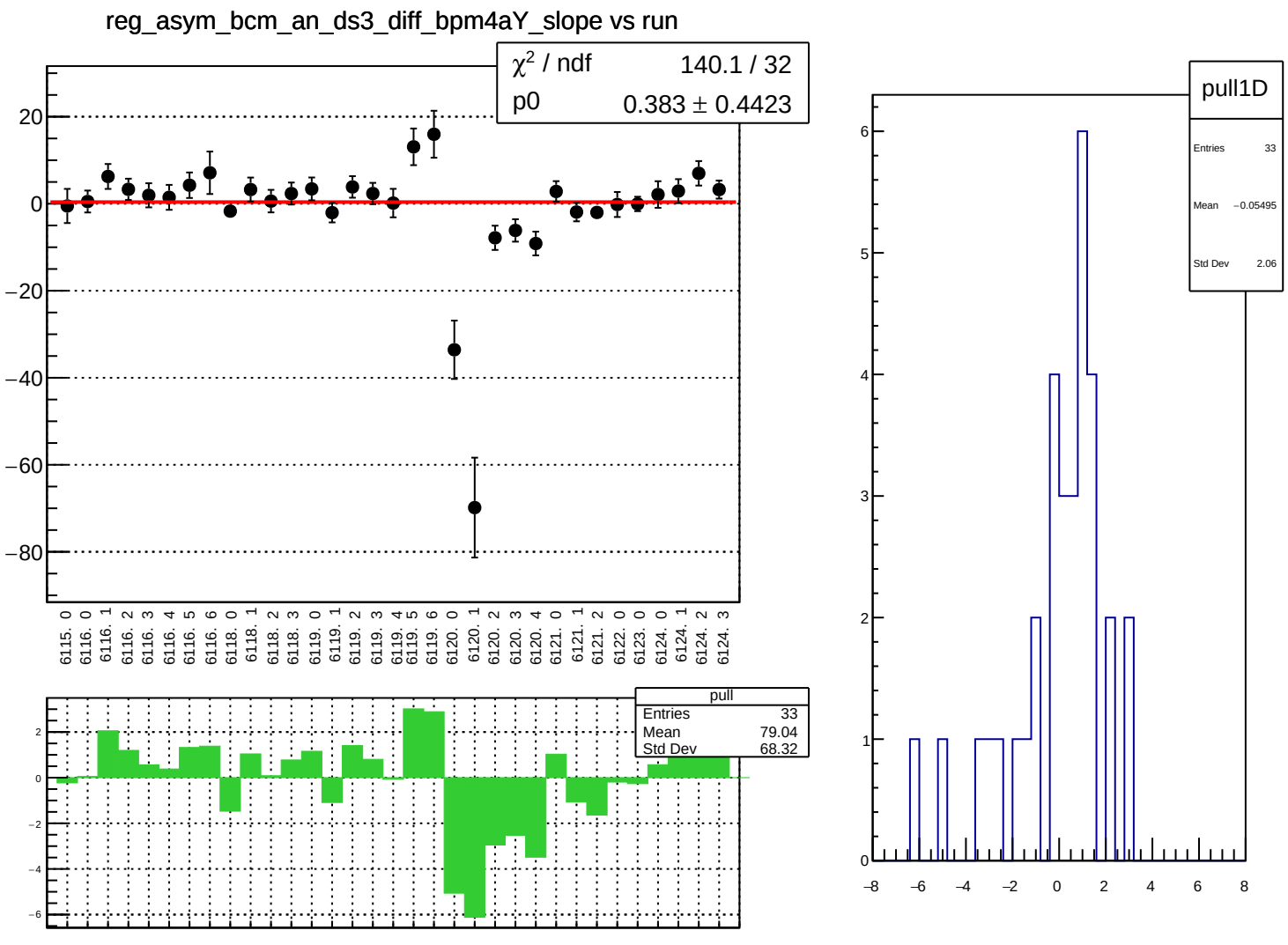
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean −15.36
Std Dev 37.52
2
1
0
−1
−2
−3

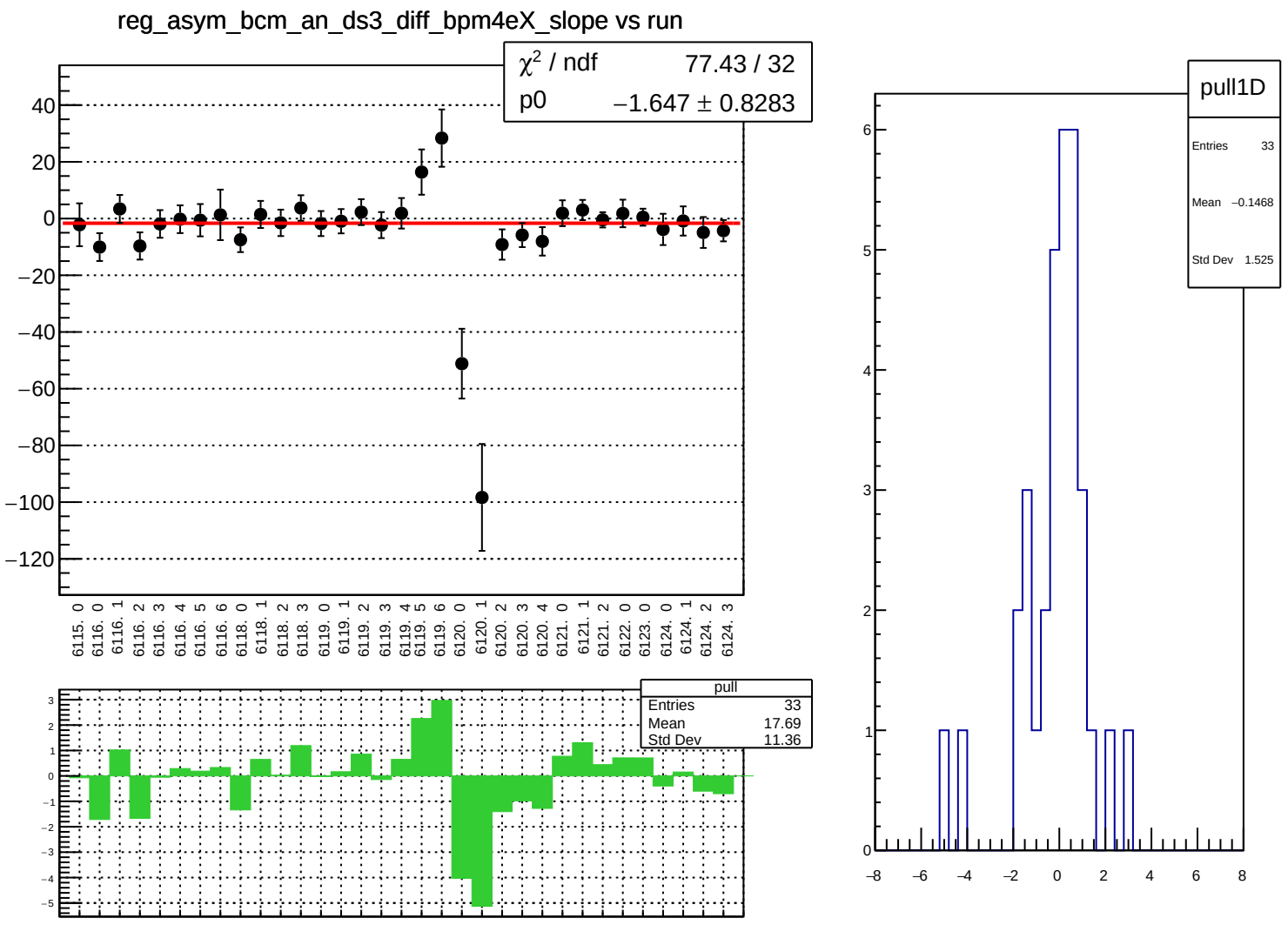

pull1D
Entries 33
Mean 0.05229
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

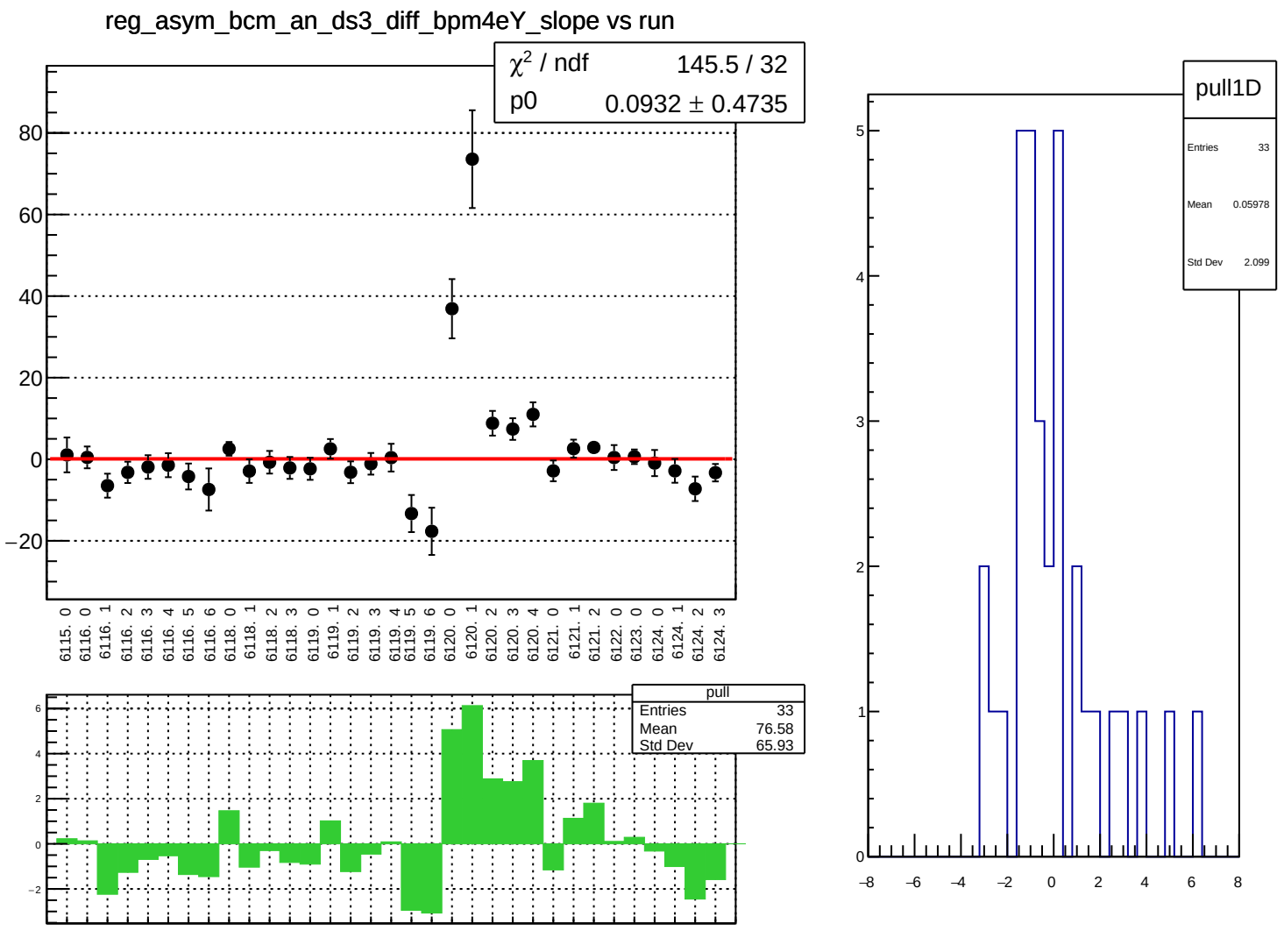

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 34.24 / 32
p0 17.17 ± 0.169
pull
Entries 33
Mean −66.48
Std Dev 80.63
pull1D
Entries 33
Mean −0.02028
Std Dev 1.018

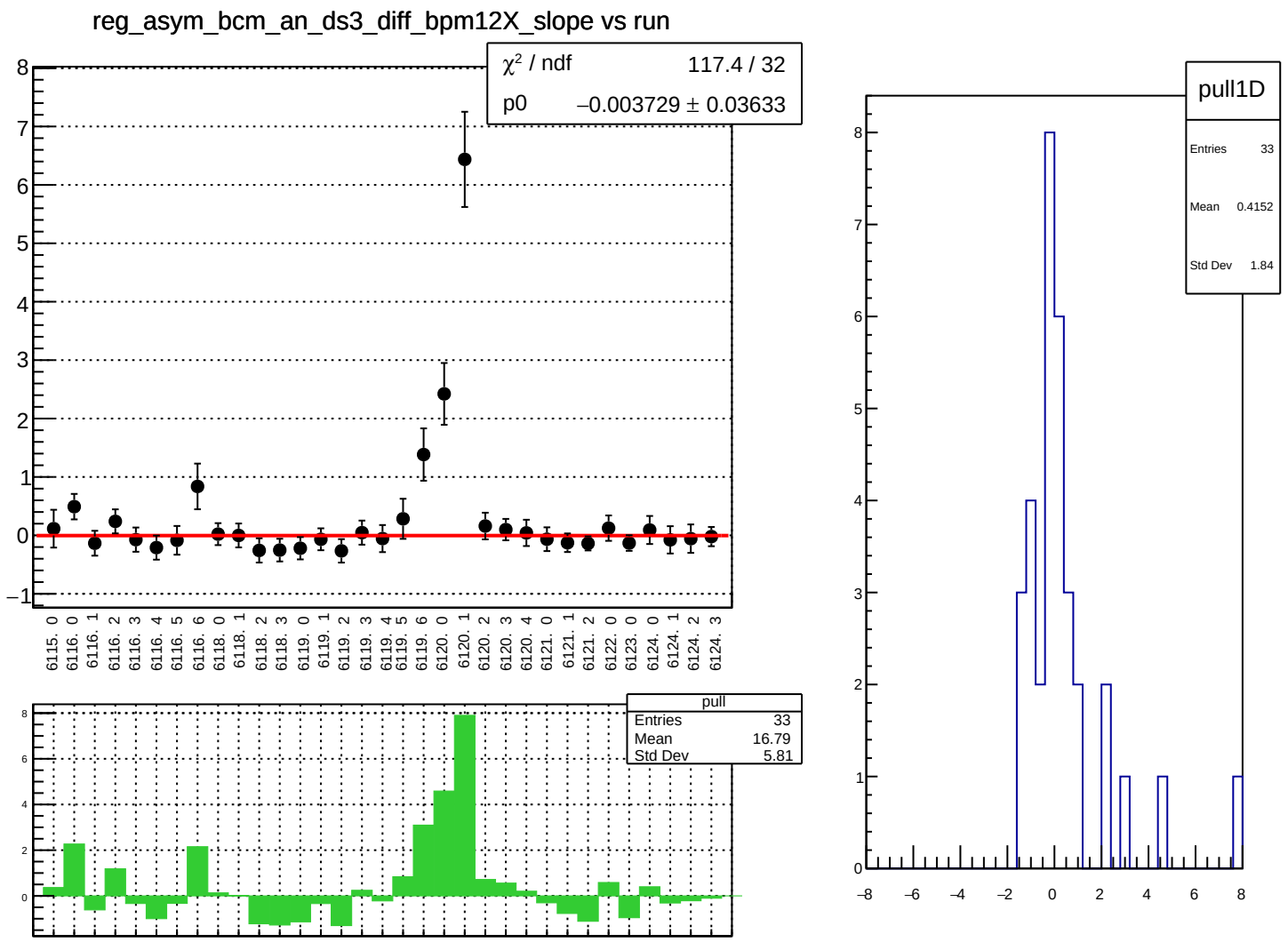

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 75.18 / 32
p0 1.001 ± 0.7121
pull
Entries 33
Mean 16.19
Std Dev 10.82

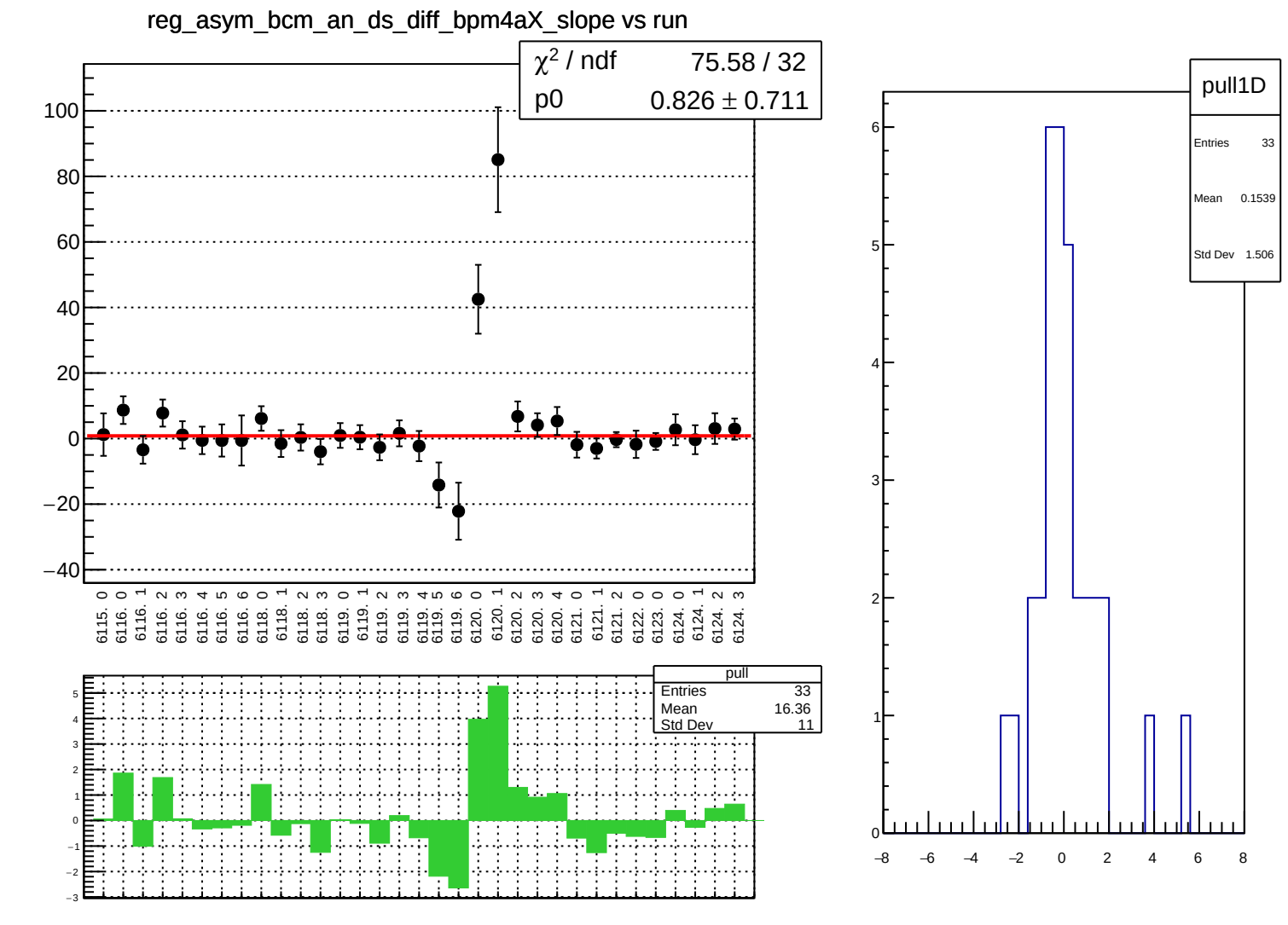

pull1D
Entries 33
Mean 0.1572
Std Dev 1.501

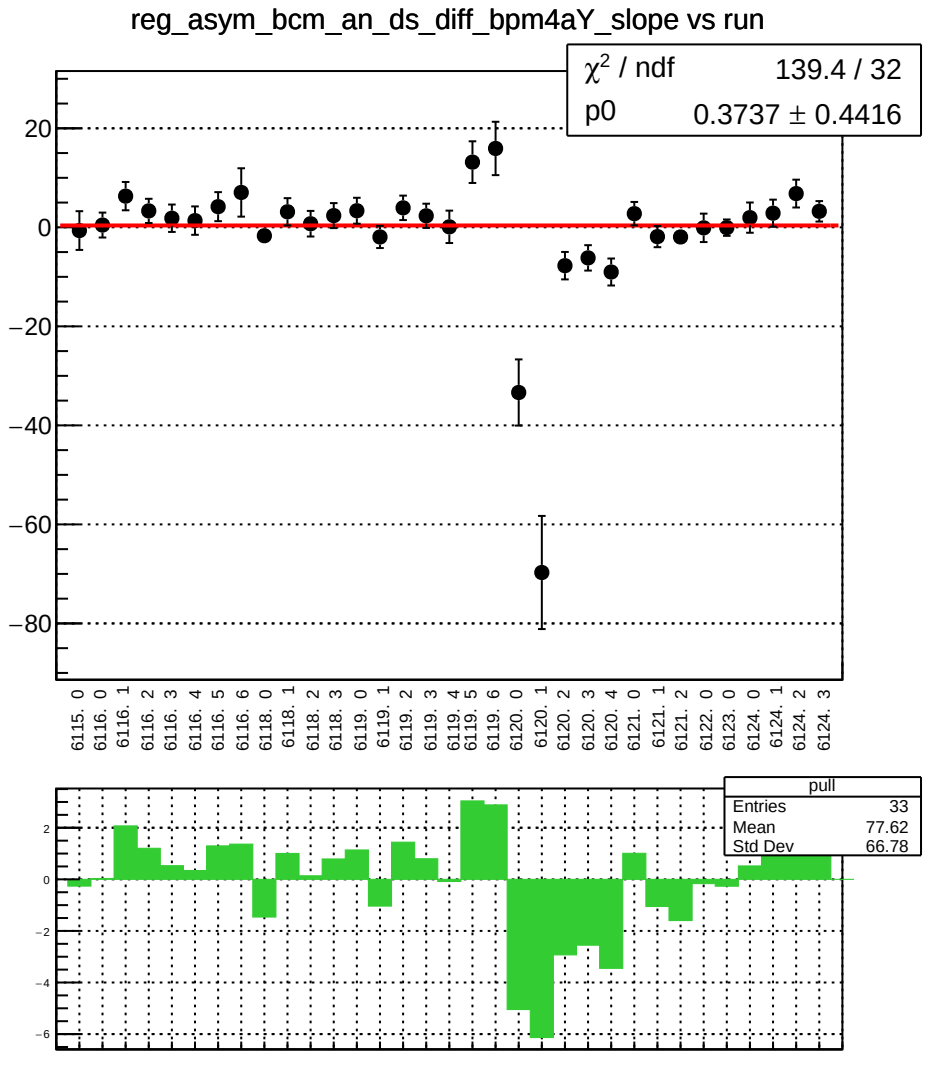

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 140.1 / 32
p0 0.383 ± 0.4423
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 79.04
Std Dev 68.32
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.05495
Std Dev 2.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

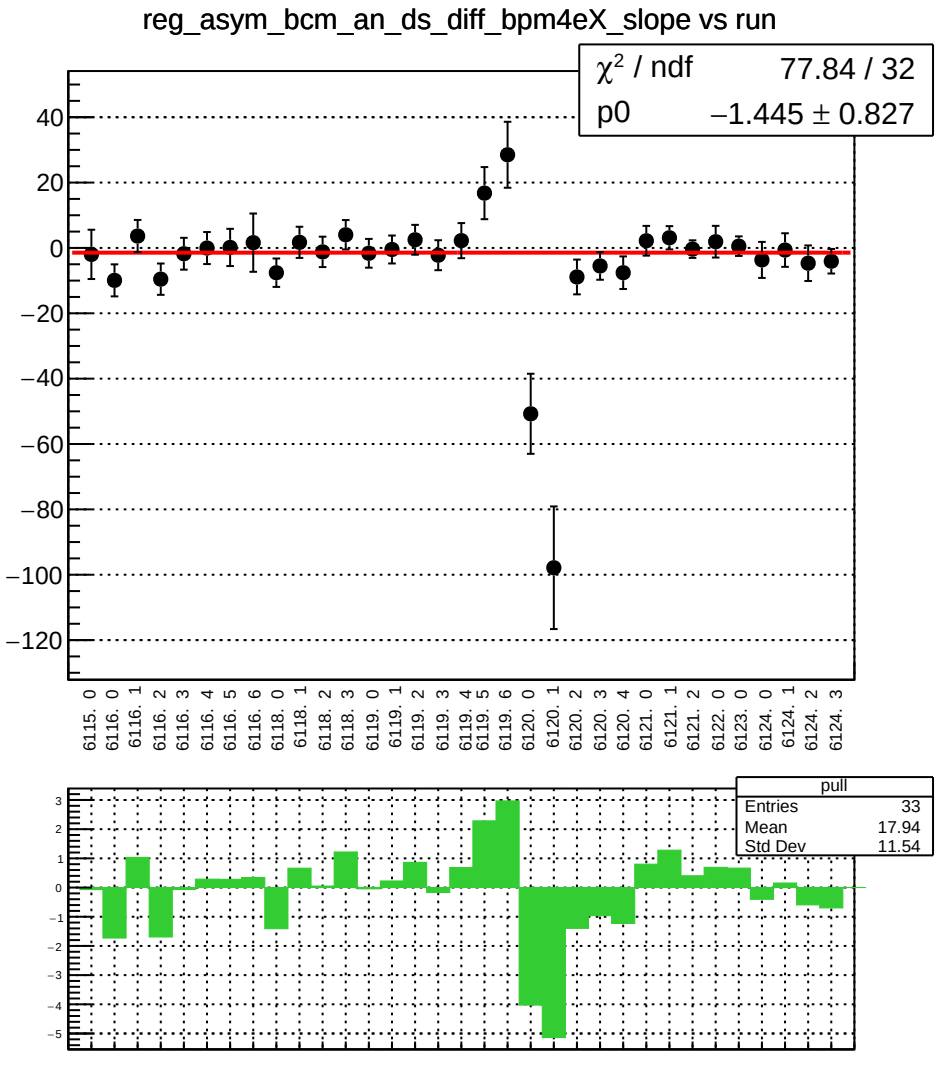

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 77.43 / 32
p0 −1.647 ± 0.8283
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 17.69
Std Dev 11.36
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 33
Mean −0.1468
Std Dev 1.525
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 145.5 / 32
p0 0.0932 ± 0.4735
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 76.58
Std Dev 65.93
6
4
2
0
−2
pull1D
Entries 33
Mean 0.05978
Std Dev 2.099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 117.4 / 32
p0 −0.003729 ± 0.03633
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.79
Std Dev 5.81
pull1D
Entries 33
Mean 0.4152
Std Dev 1.84


reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 75.58 / 32
p0 0.826 ± 0.711
100
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.36
Std Dev 11
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.1539
Std Dev 1.506
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 139.4 / 32
p0 0.3737 ± 0.4416
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 77.62
Std Dev 66.78
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.05601
Std Dev 2.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 77.84 / 32
p0 −1.445 ± 0.827
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
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6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
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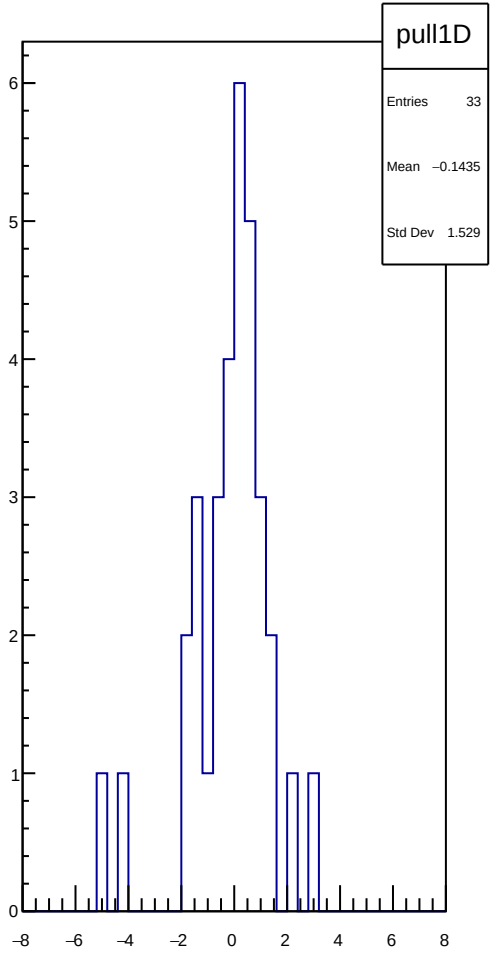
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 17.94
Std Dev 11.54
3
2
1
0
−1
−2
−3
−4
−5


pull1D
Entries 33
Mean −0.1435
Std Dev 1.529
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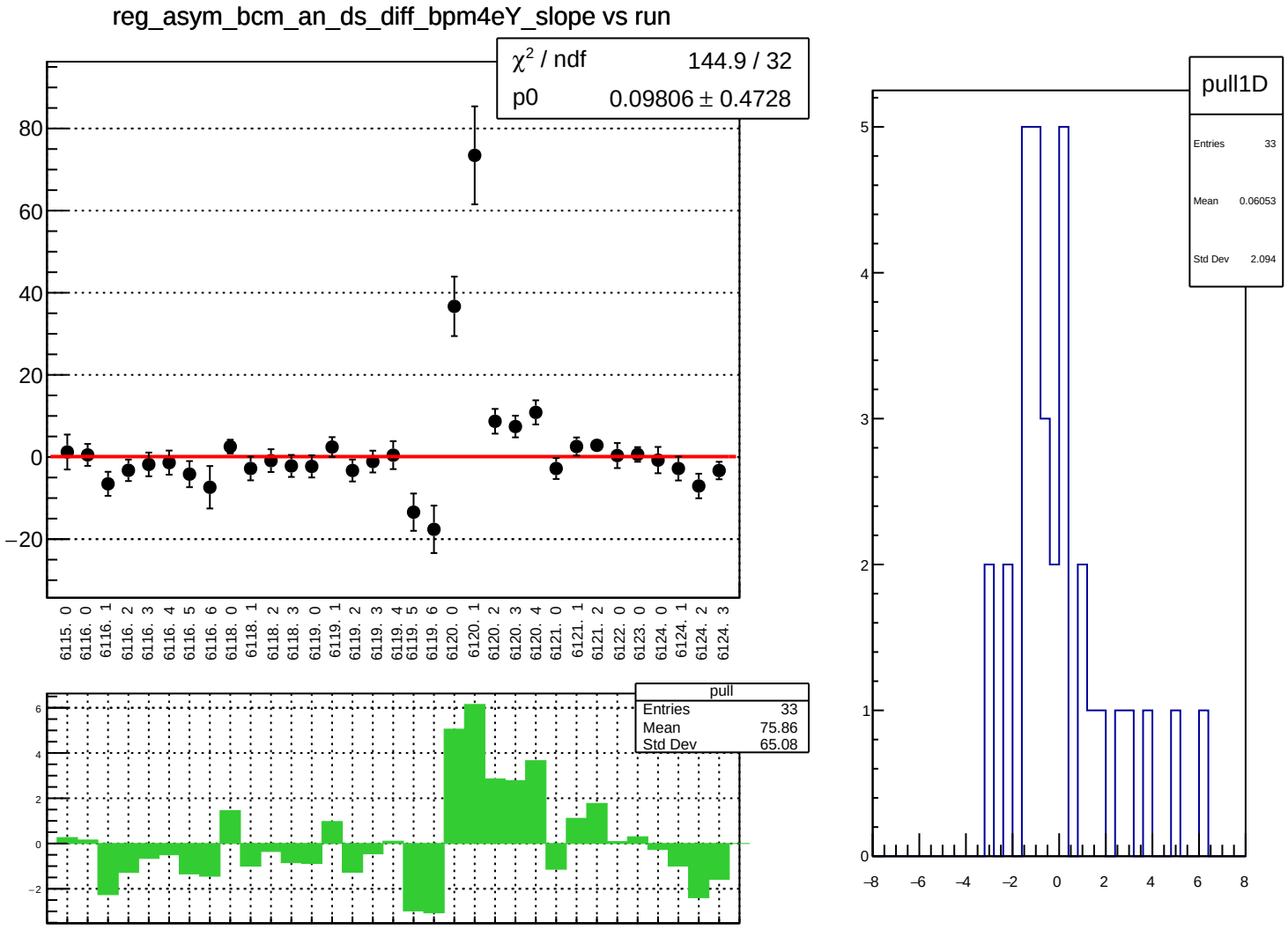
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 144.9 / 32
p0 0.09806 ± 0.4728
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 75.86
Std Dev 65.08
6
4
2
0
−2
pull1D
Entries 33
Mean 0.06053
Std Dev 2.094
5
4
3
2
1
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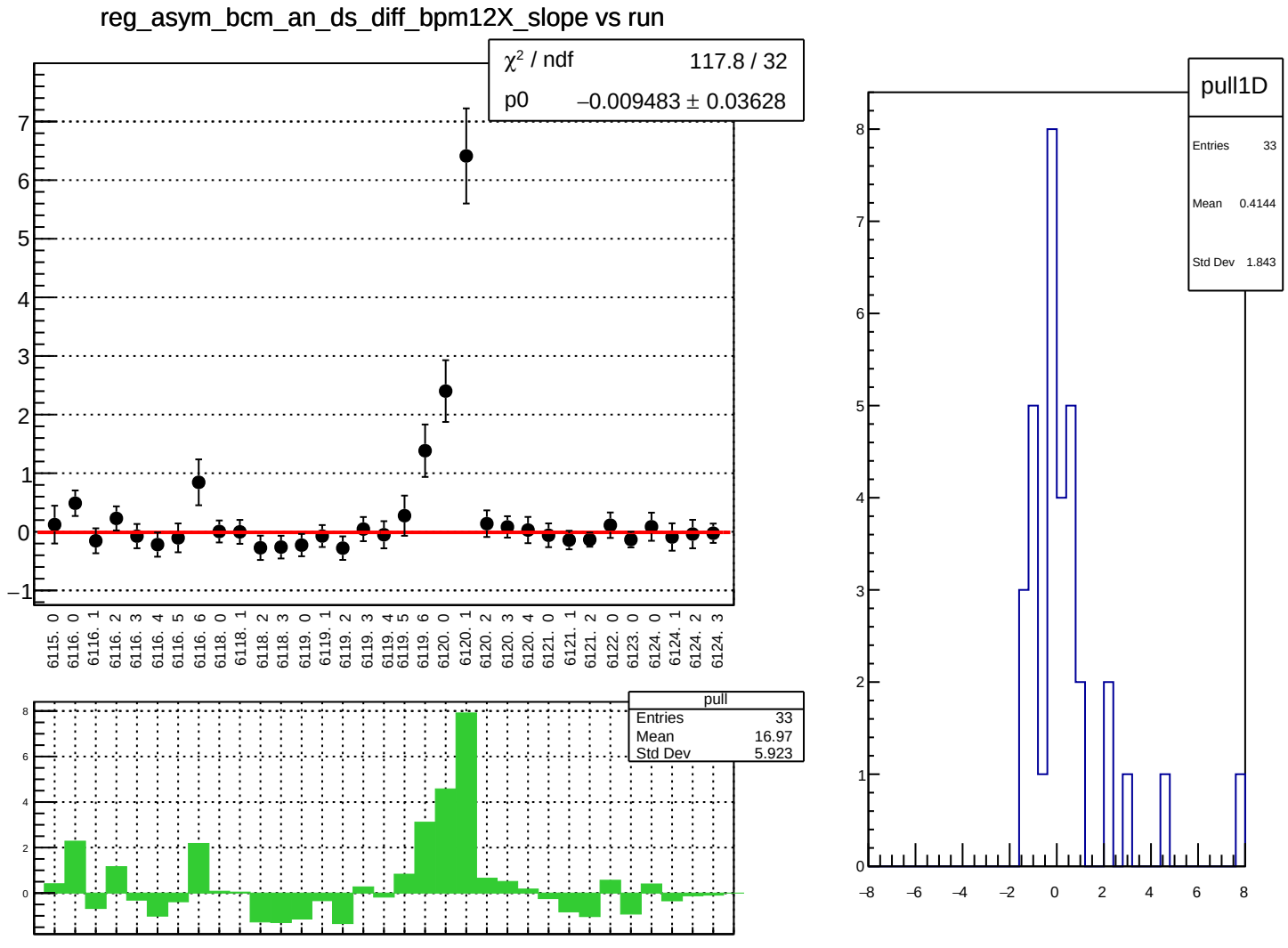
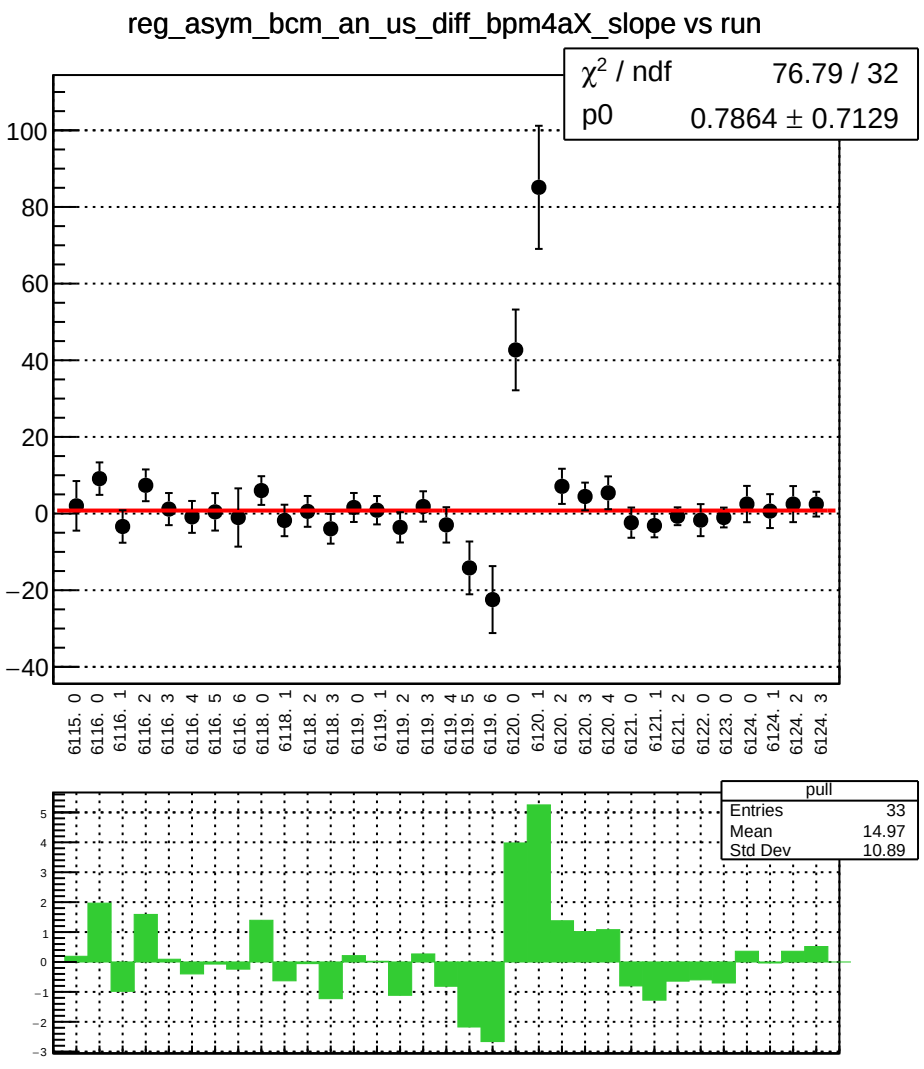
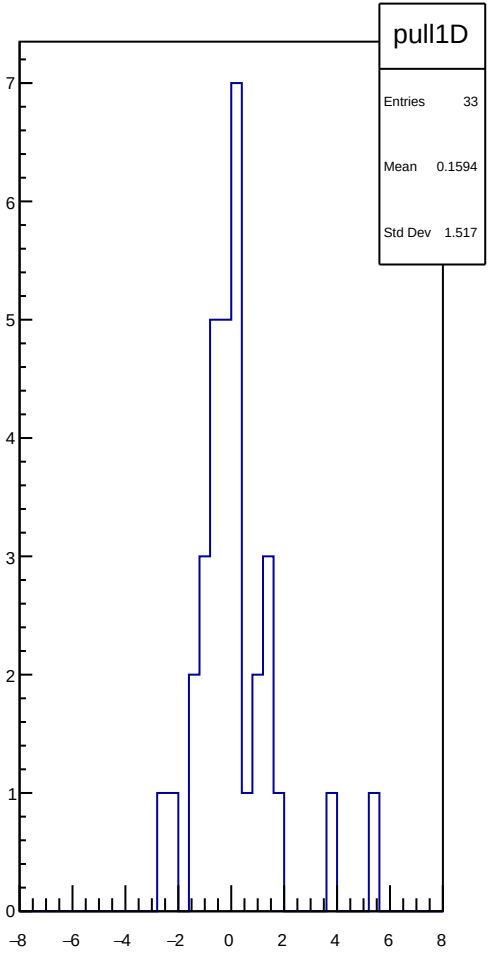
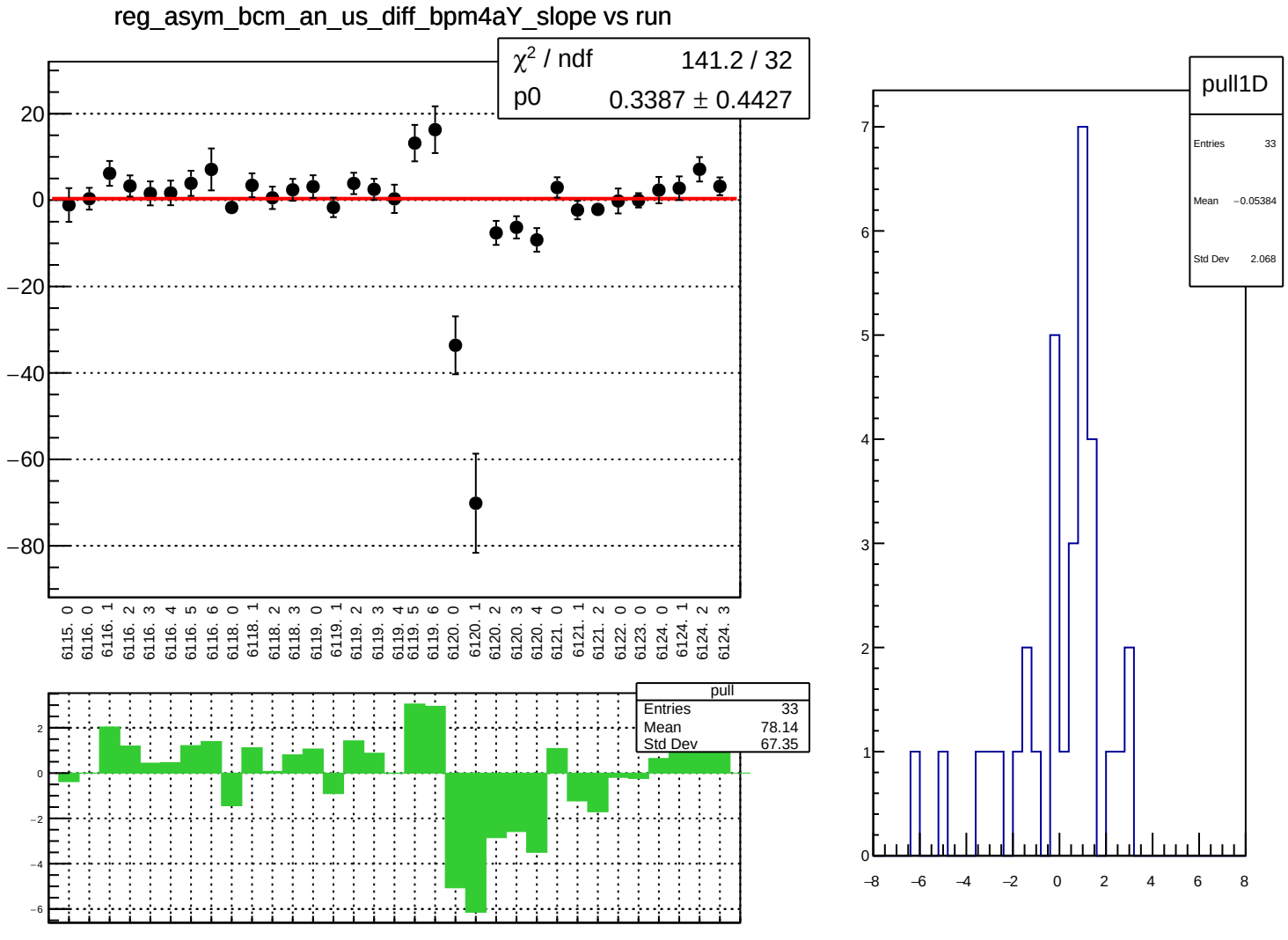
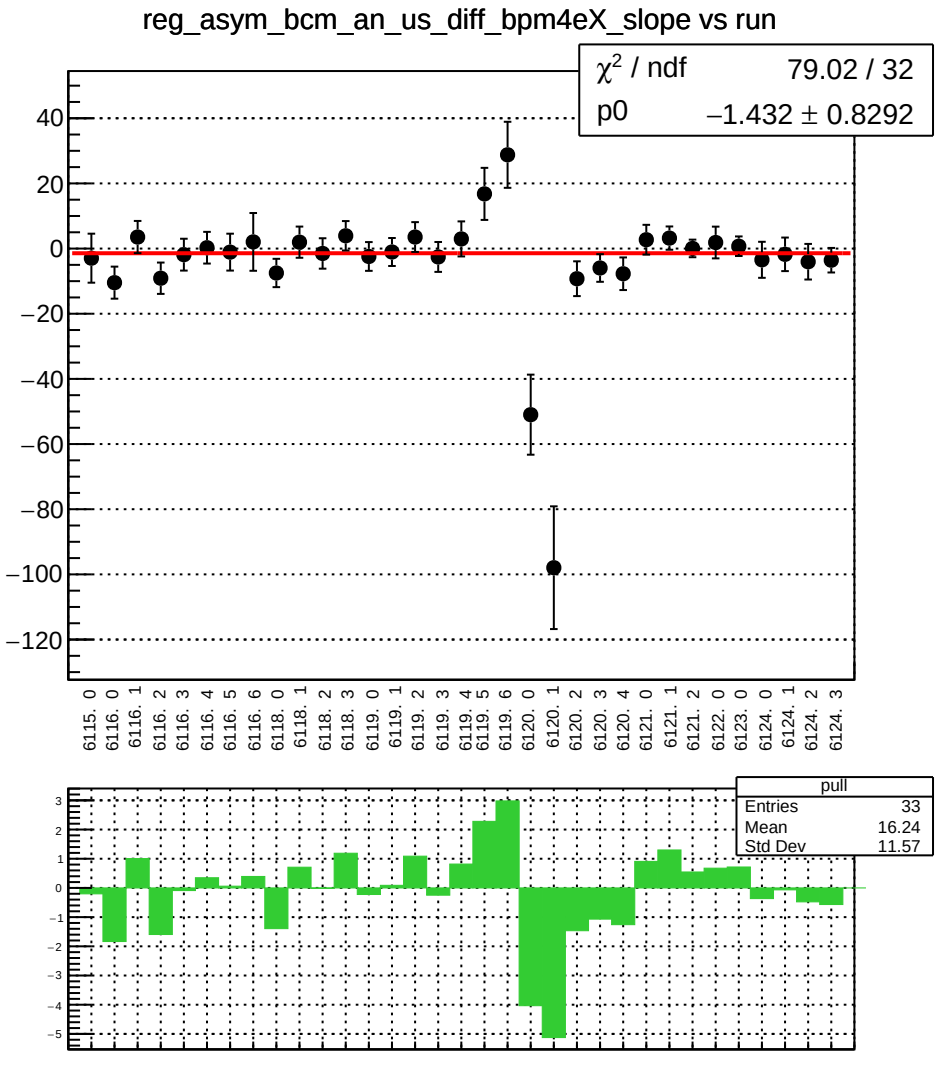
−4
−2
0
2
4
6
8

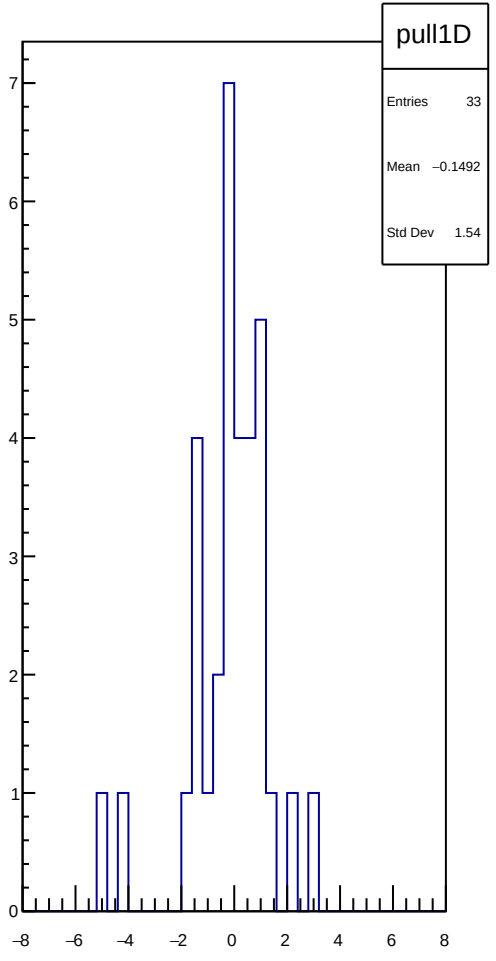

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 117.8 / 32
p0 −0.009483 ± 0.03628
7
6
5
4
3
2
1
0
−1
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.97
Std Dev 5.923
8
6
4
2
0
pull1D
Entries 33
Mean 0.4144
Std Dev 1.843
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

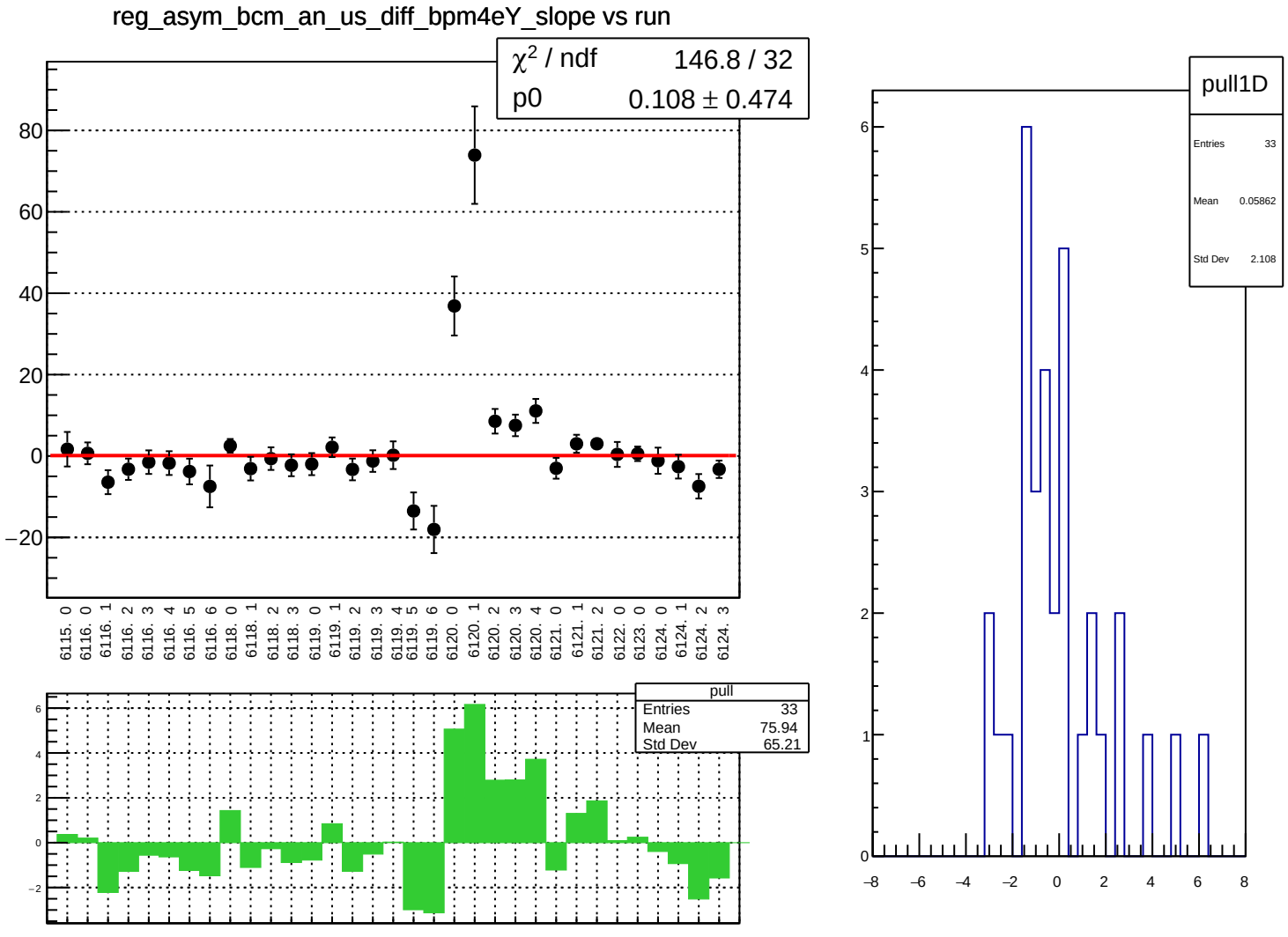

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 76.79 / 32
p0 0.7864 ± 0.7129
100
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 14.97
Std Dev 10.89
5
4
3
2
1
0
−1
−2
−3

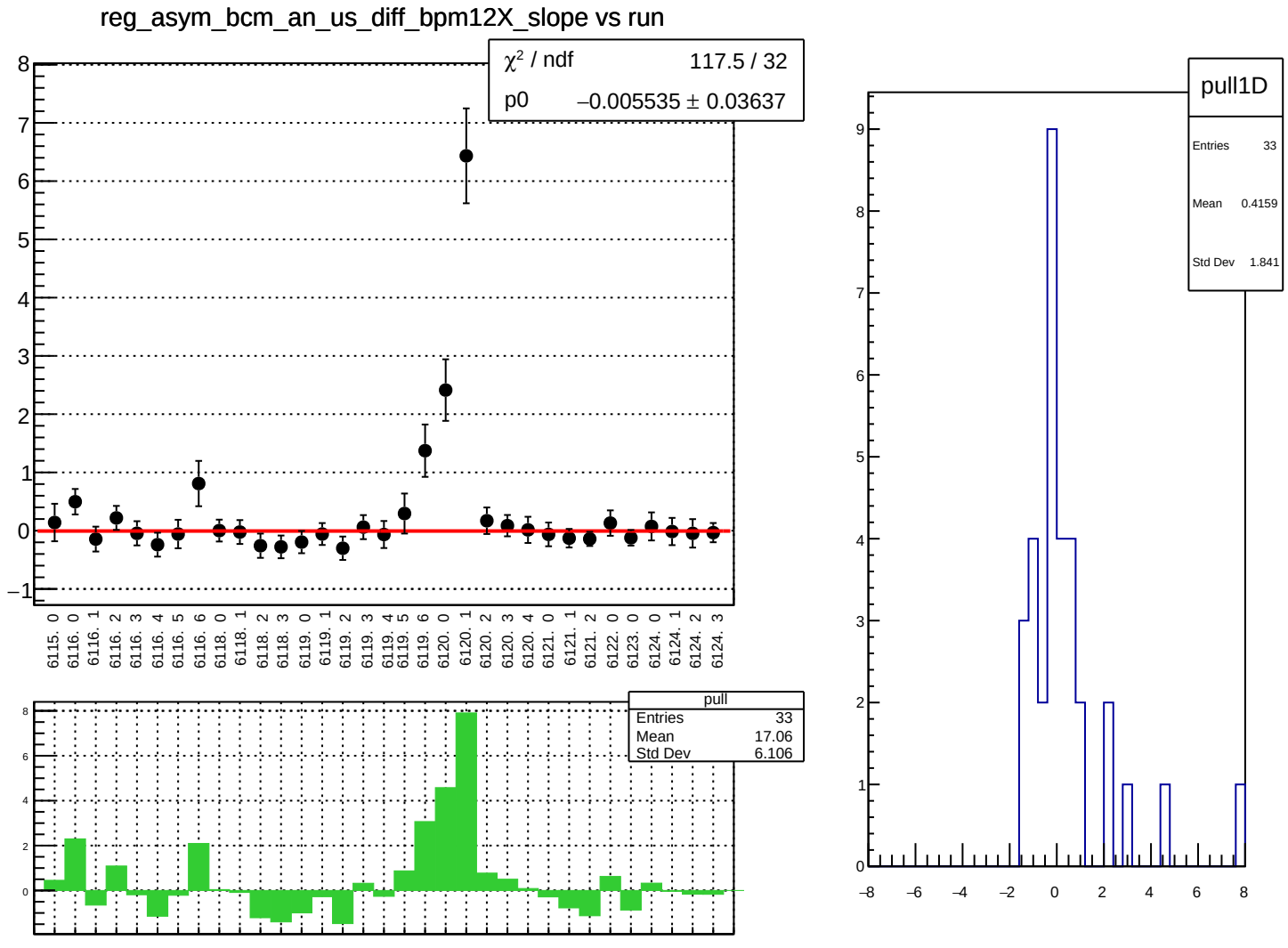

pull1D
Entries 33
Mean 0.1594
Std Dev 1.517
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

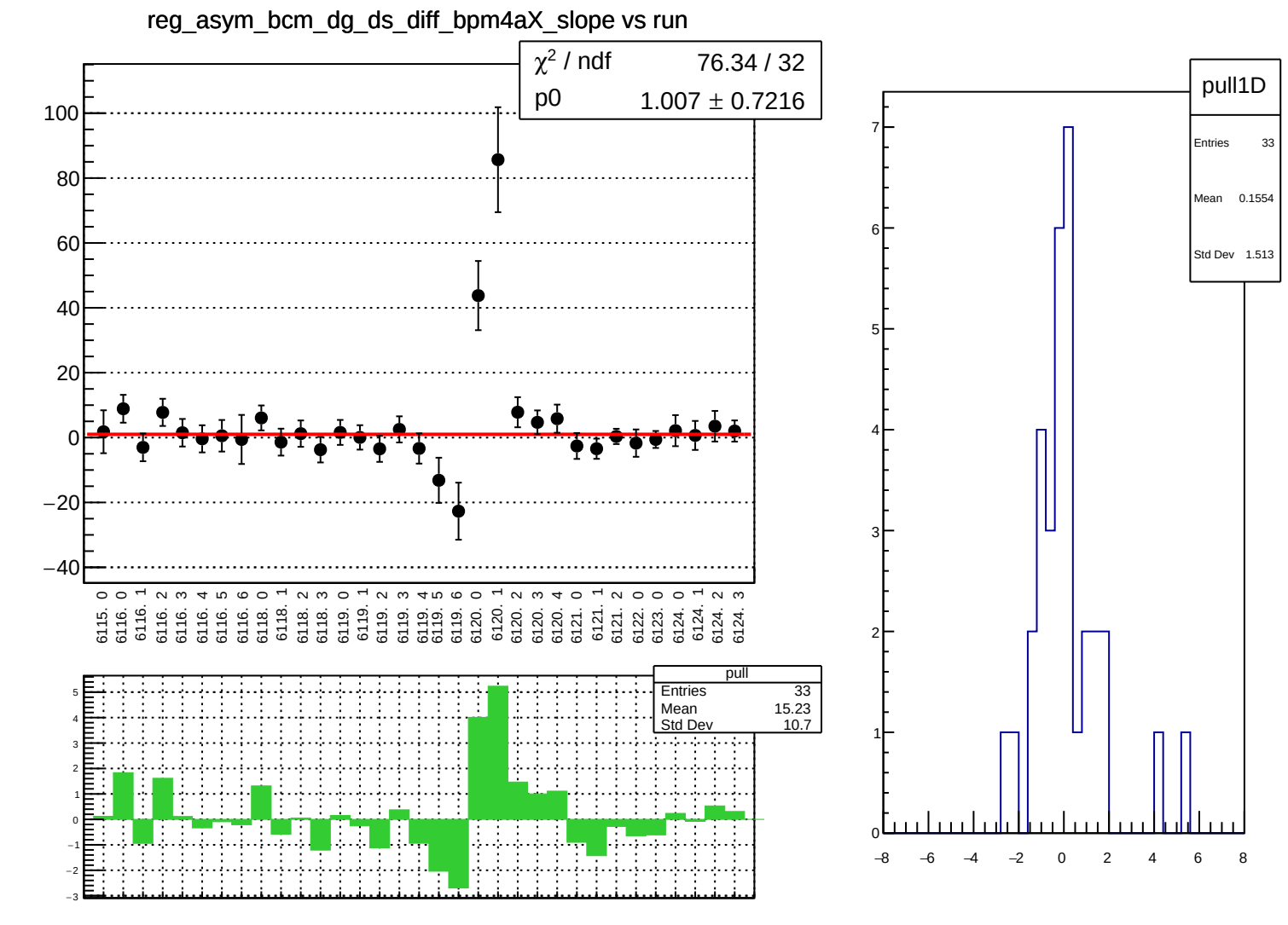

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 141.2 / 32
p0 0.3387 ± 0.4427
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 78.14
Std Dev 67.35
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.05384
Std Dev 2.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

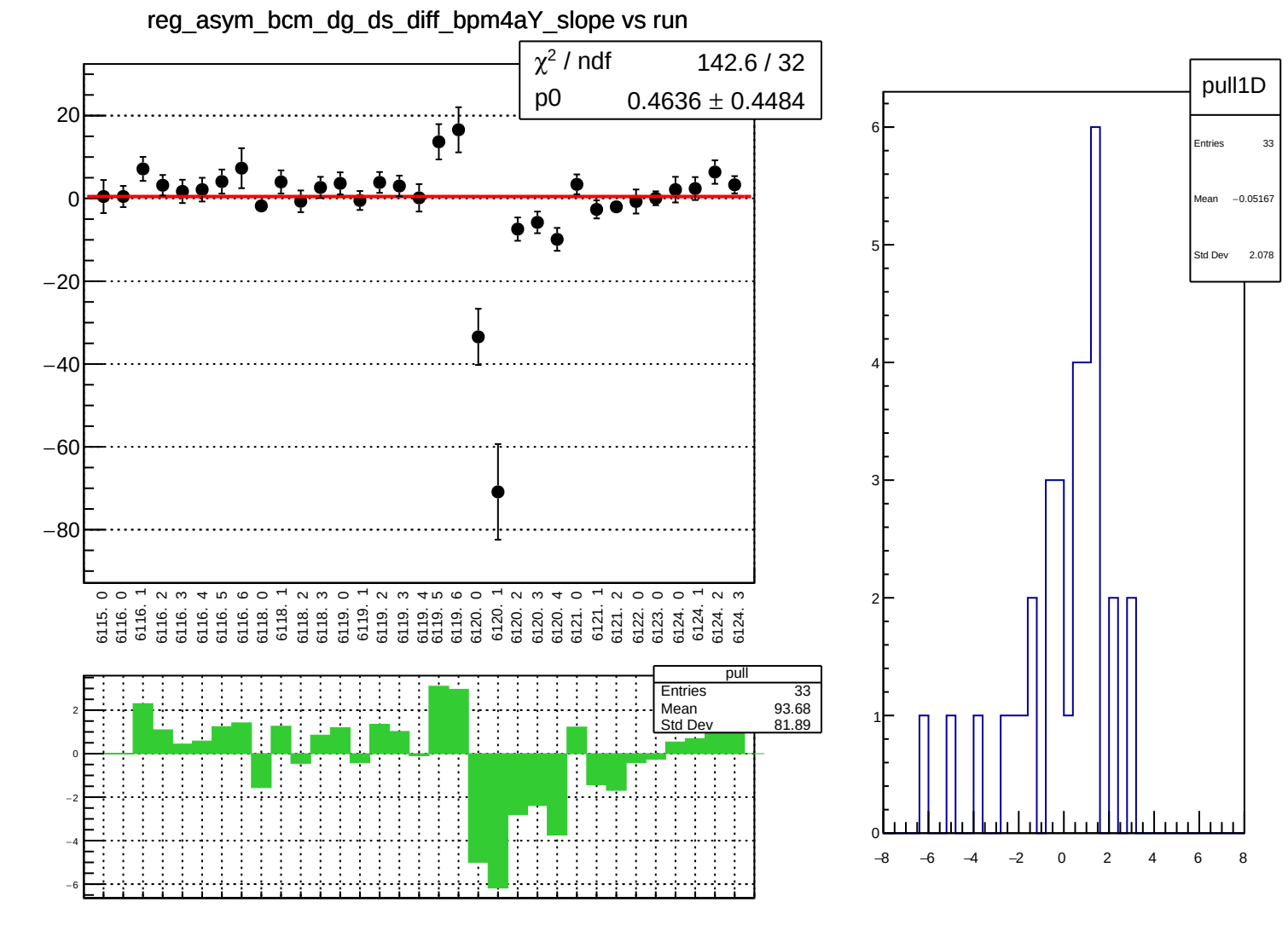

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 79.02 / 32
p0 −1.432 ± 0.8292
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.24
Std Dev 11.57
3
2
1
0
−1
−2
−3
−4
−5

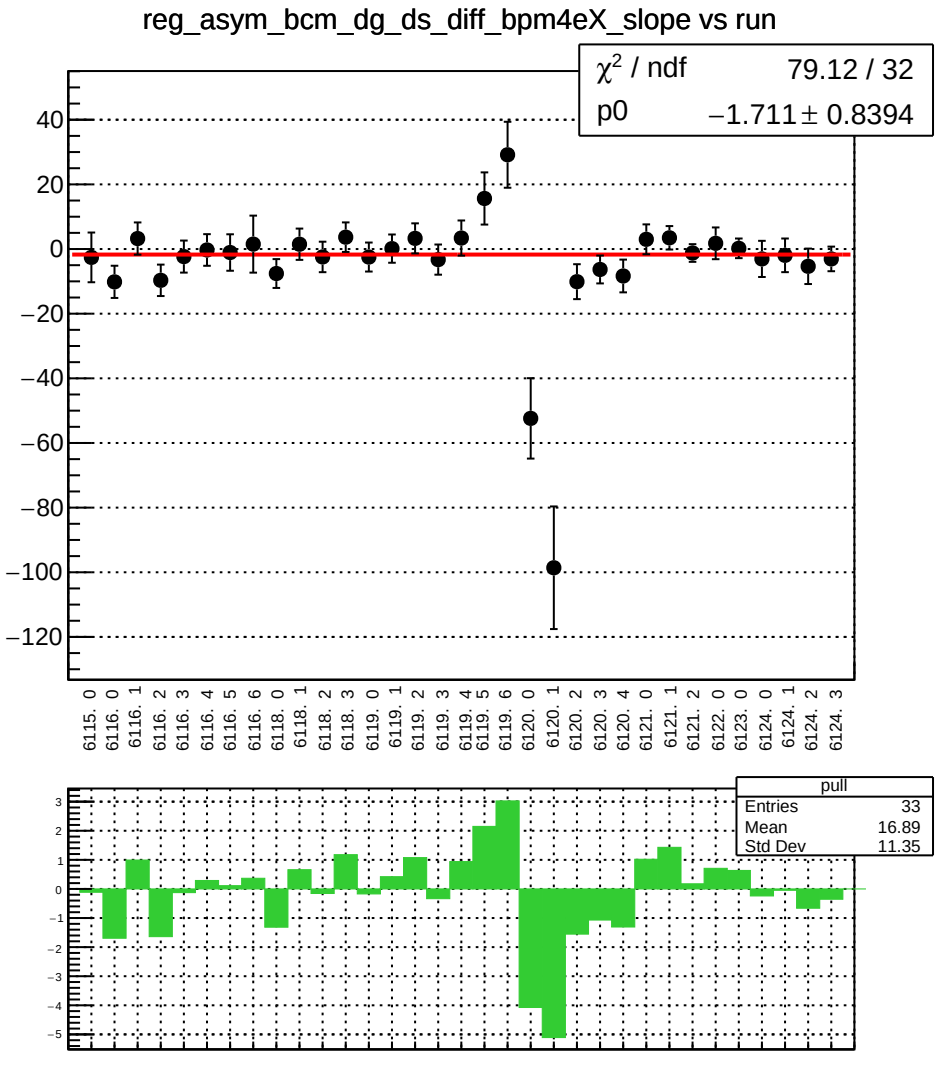

pull1D
Entries 33
Mean −0.1492
Std Dev 1.54
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

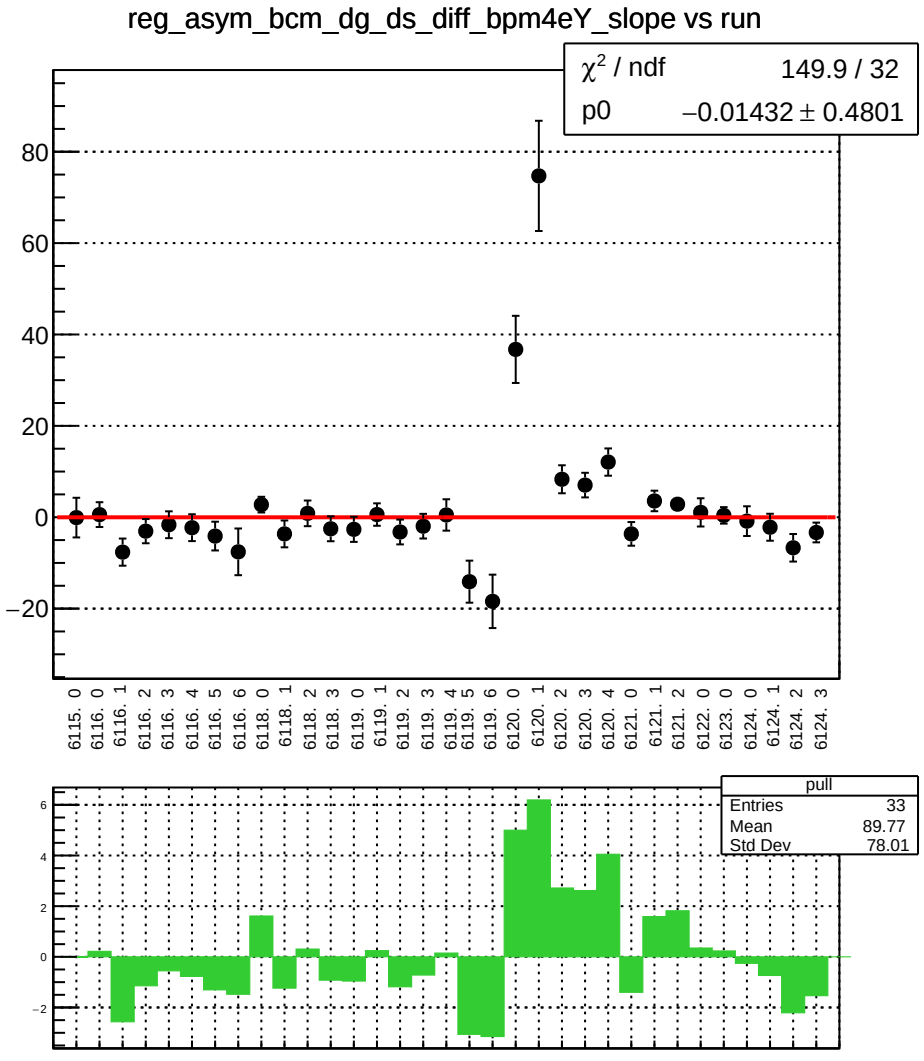

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 146.8 / 32
p0 0.108 ± 0.474
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 75.94
Std Dev 65.21
6
4
2
0
−2
pull1D
Entries 33
Mean 0.05862
Std Dev 2.108
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

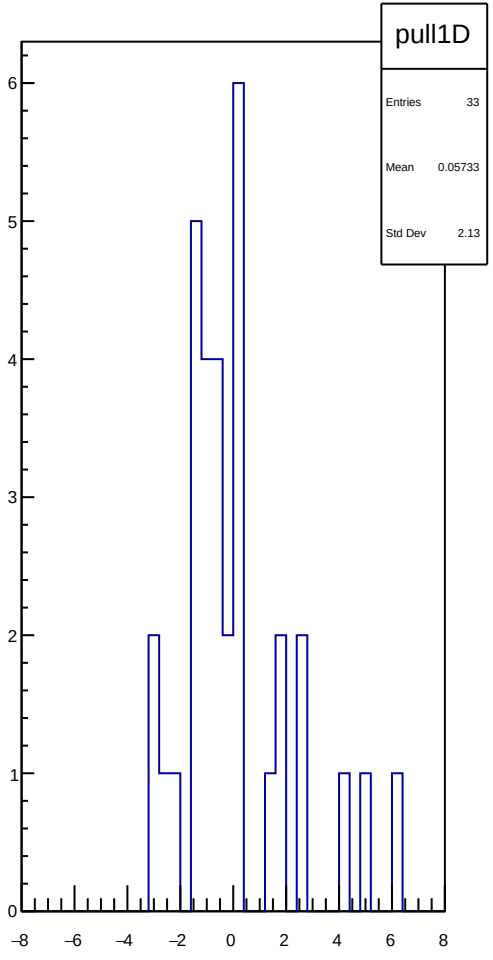

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 117.5 / 32
p0 −0.005535 ± 0.03637
pull
Entries 33
Mean 17.06
Std Dev 6.106
pull1D
Entries 33
Mean 0.4159
Std Dev 1.841

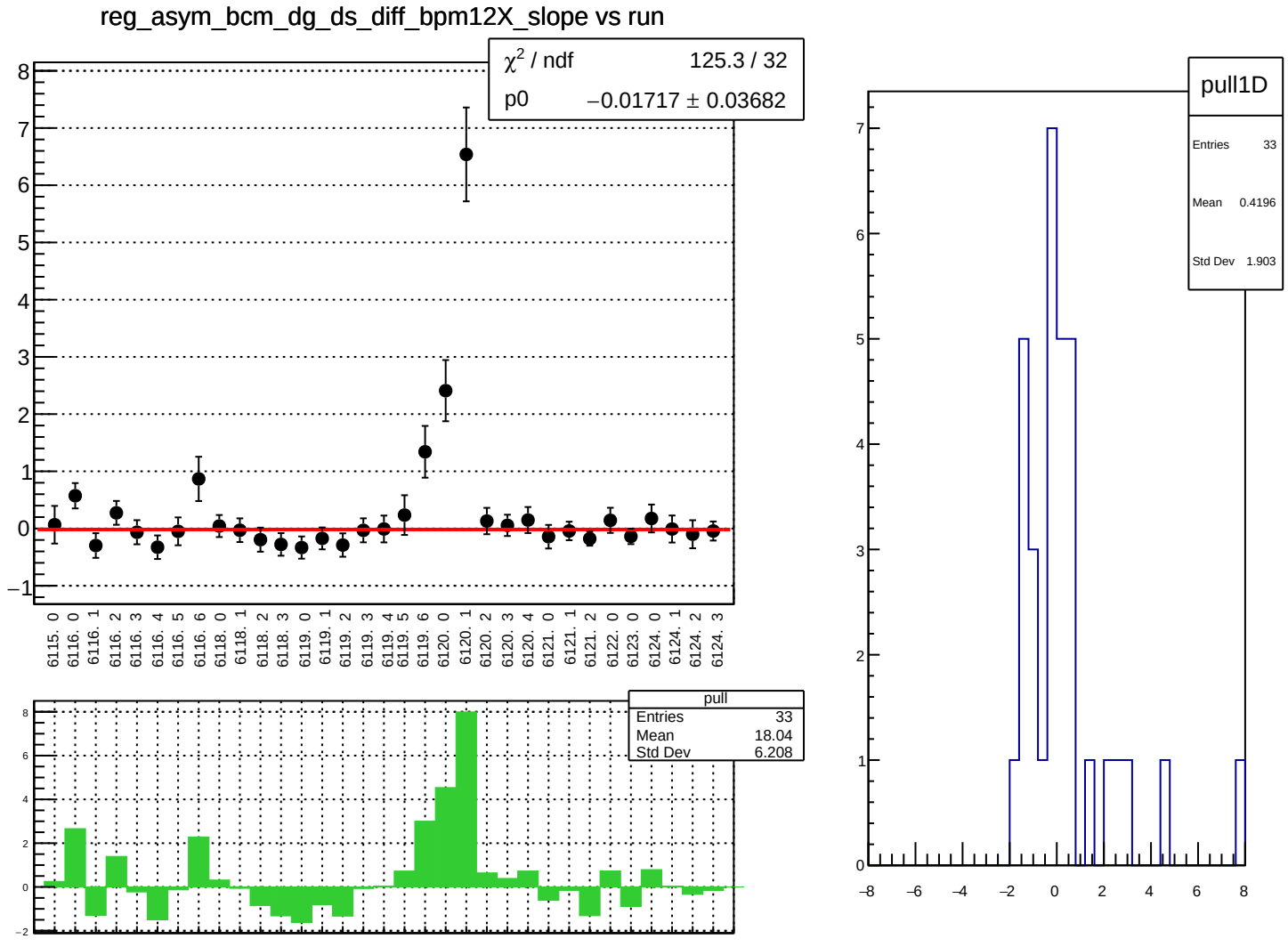

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 76.34 / 32
p0 1.007 ± 0.7216
100
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 15.23
Std Dev 10.7
pull1D
Entries 33
Mean 0.1554
Std Dev 1.513

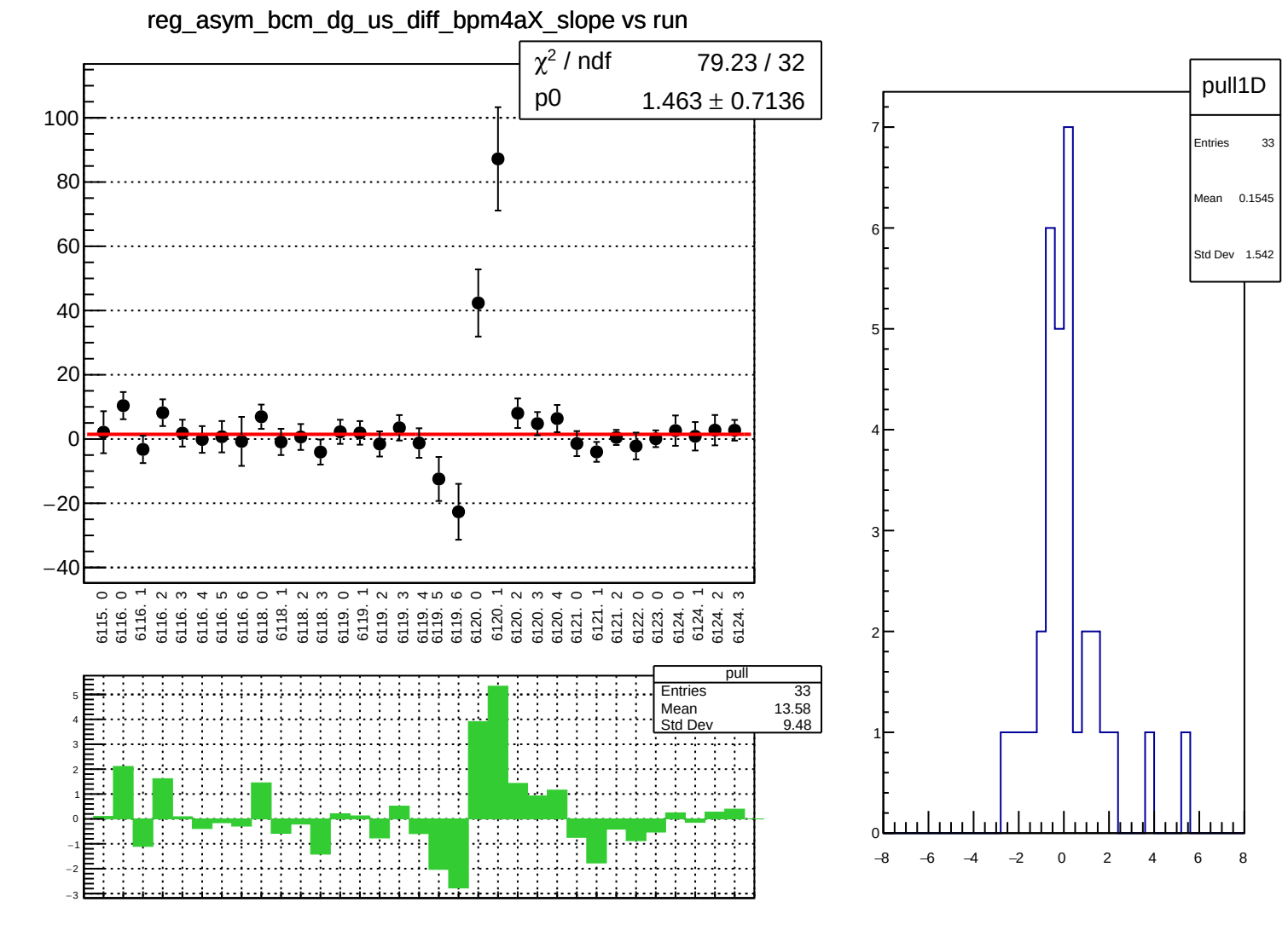

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 142.6 / 32
p0 0.4636 ± 0.4484
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 93.68
Std Dev 81.89
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.05167
Std Dev 2.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

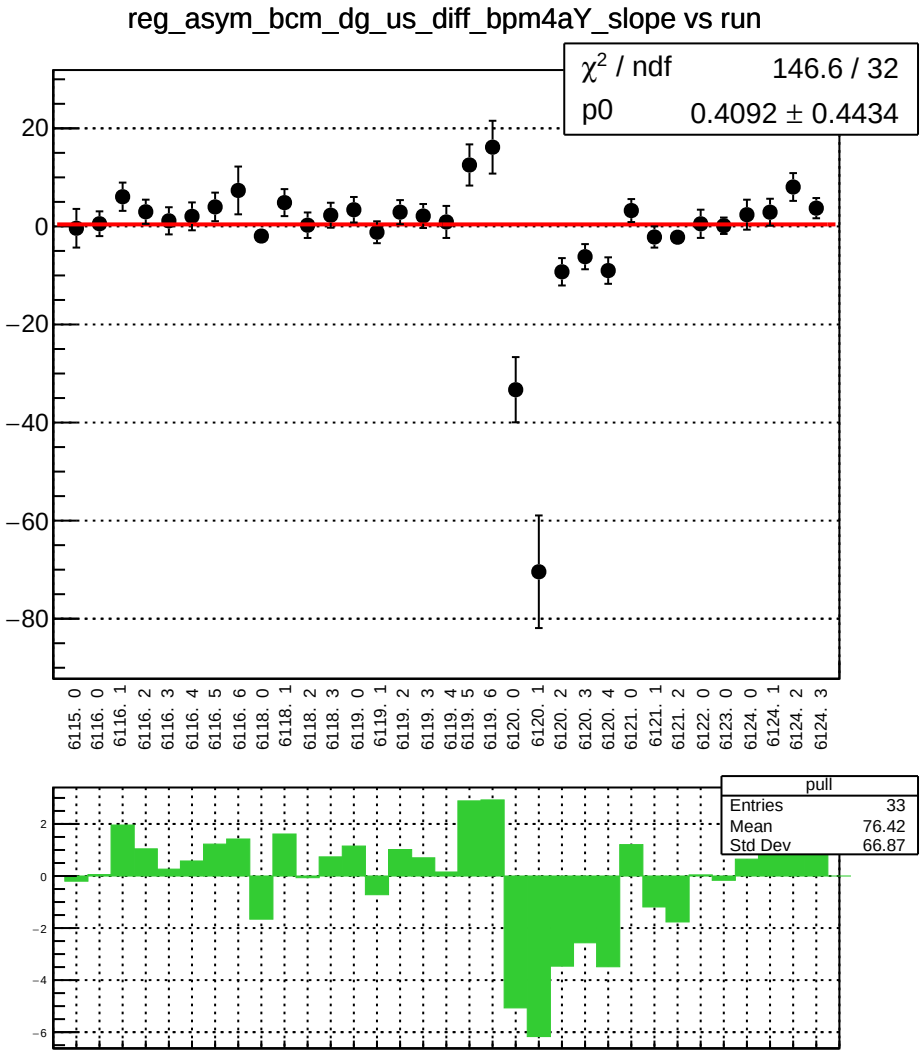

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 79.12 / 32
p0 −1.711 ± 0.8394
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.89
Std Dev 11.35
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 33
Mean −0.1449
Std Dev 1.542
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

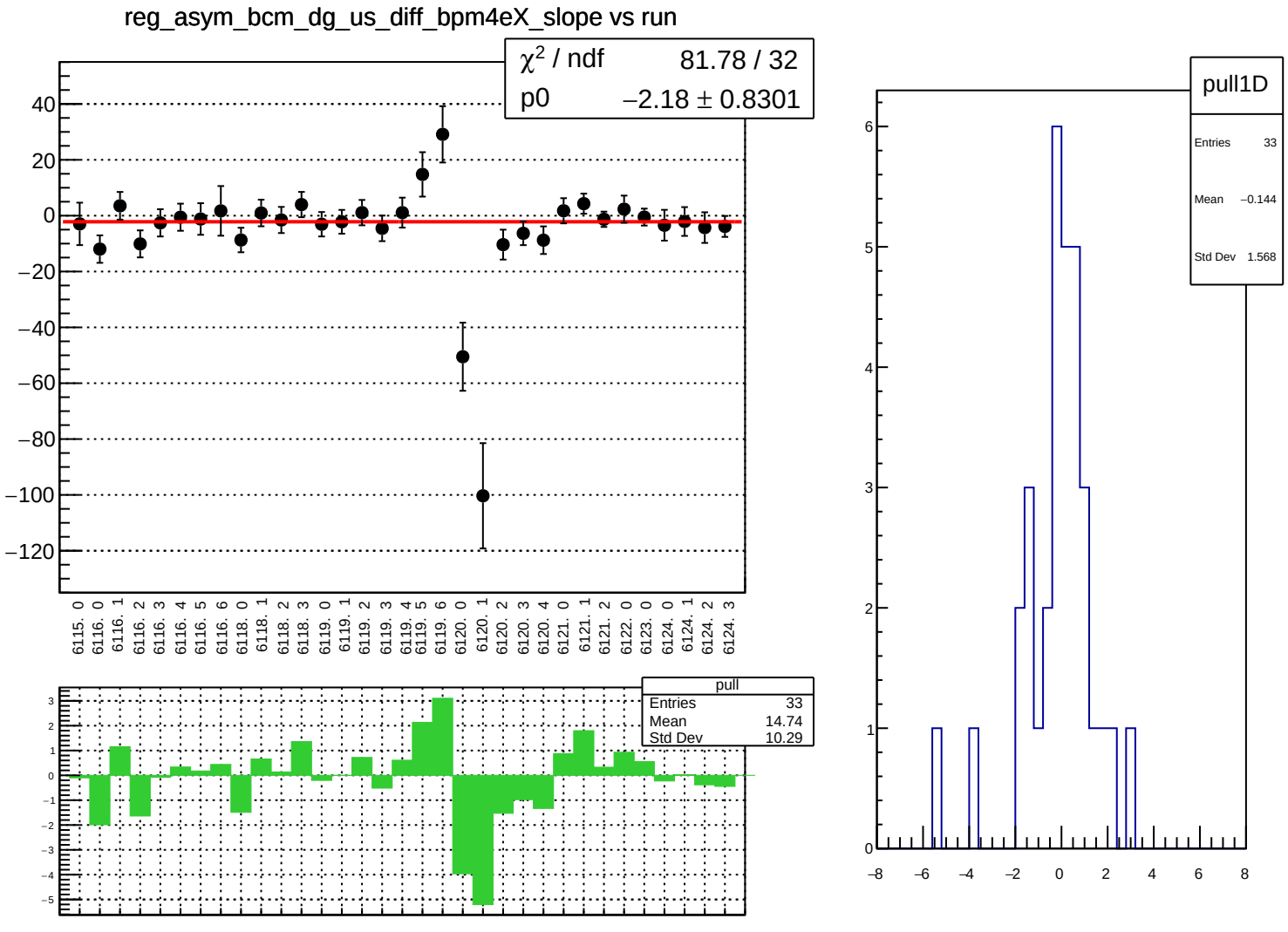

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 149.9 / 32
p0 −0.01432 ± 0.4801
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 89.77
Std Dev 78.01
6
4
2
0
−2

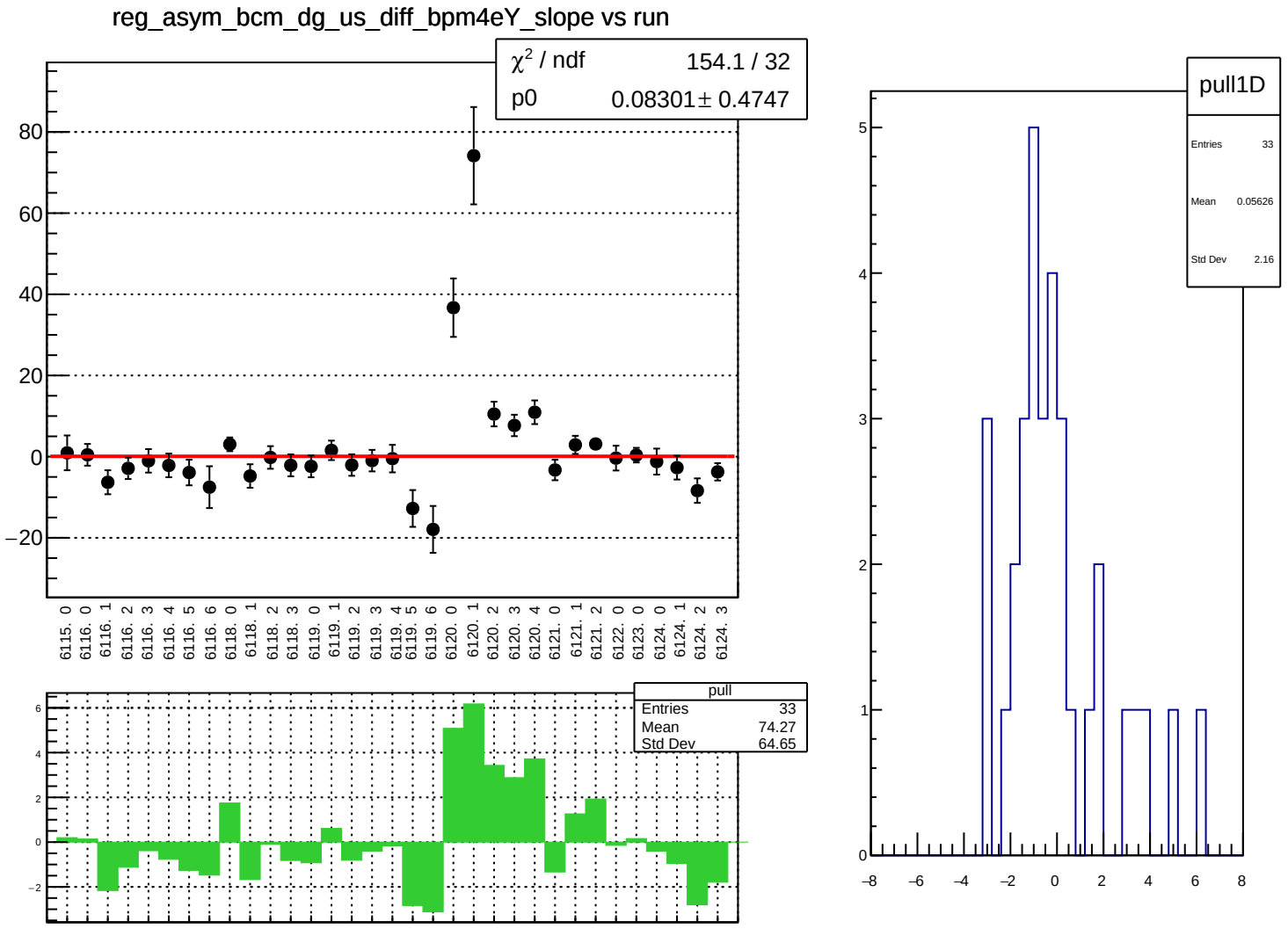

pull1D
Entries 33
Mean 0.05733
Std Dev 2.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

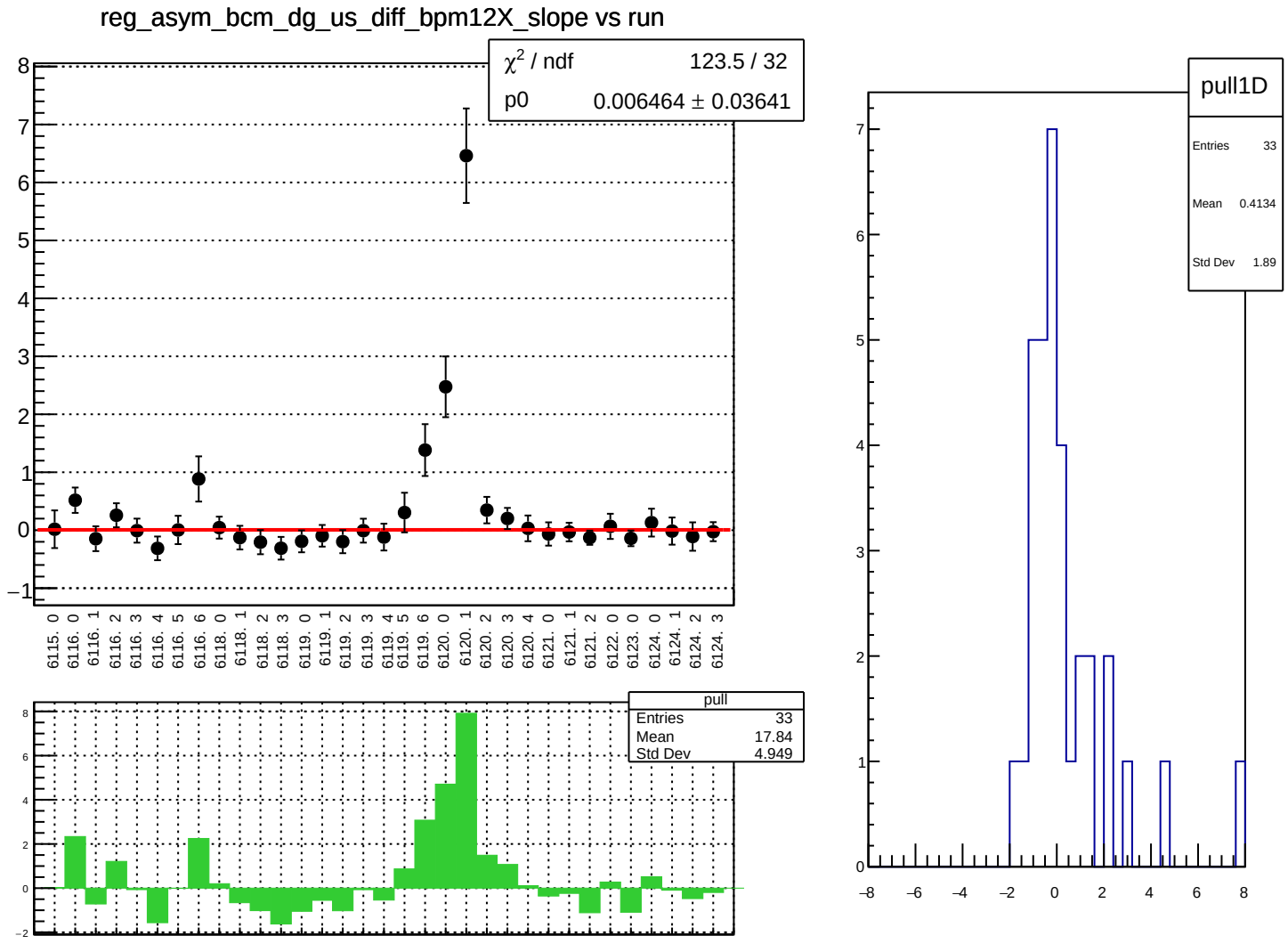

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 125.3 / 32
p0 −0.01717 ± 0.03682
pull
Entries 33
Mean 18.04
Std Dev 6.208
pull1D
Entries 33
Mean 0.4196
Std Dev 1.903

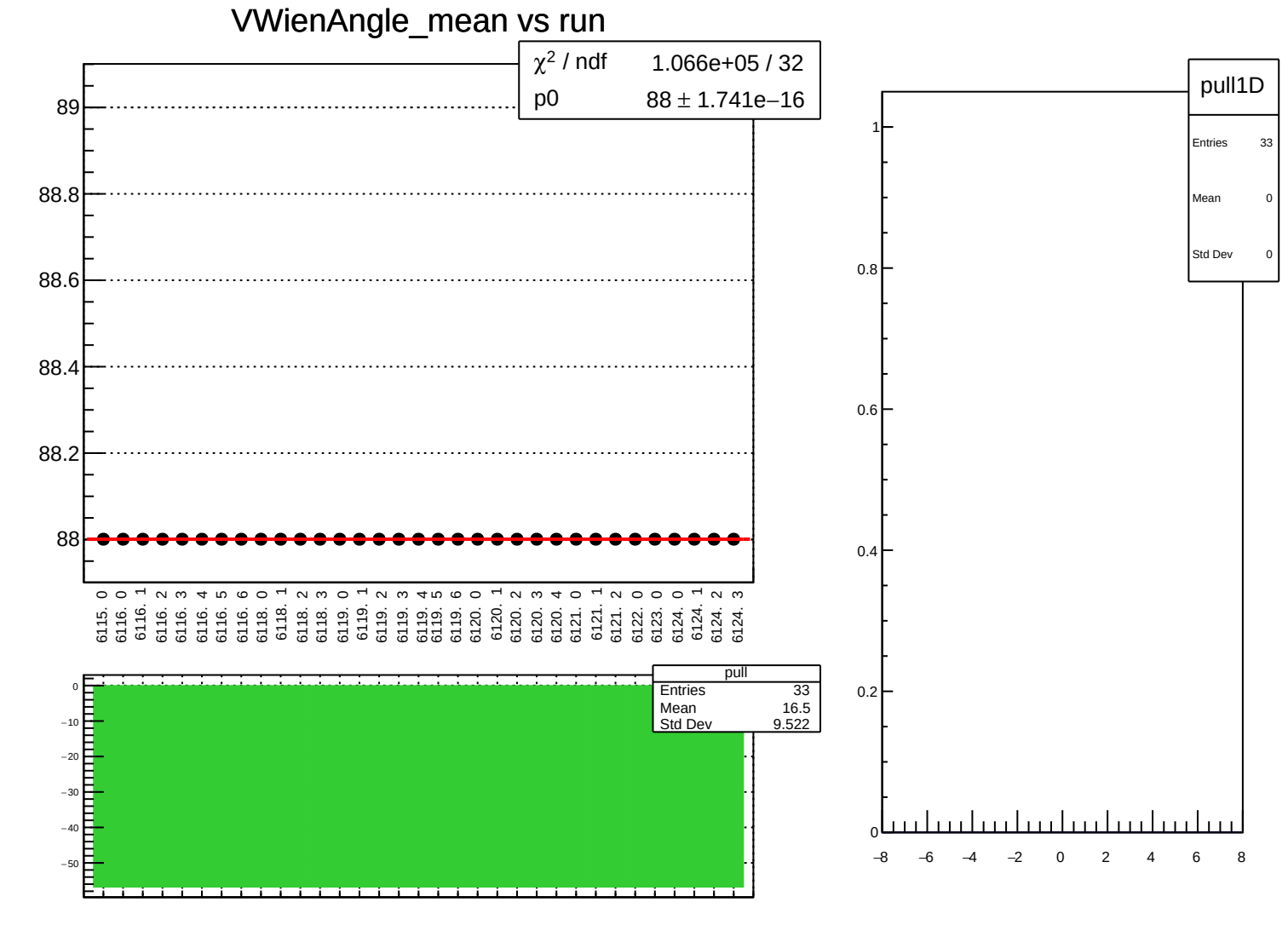

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 79.23 / 32
p0 1.463 ± 0.7136
100
80
60
40
20
0
−20
−40
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 13.58
Std Dev 9.48
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.1545
Std Dev 1.542
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

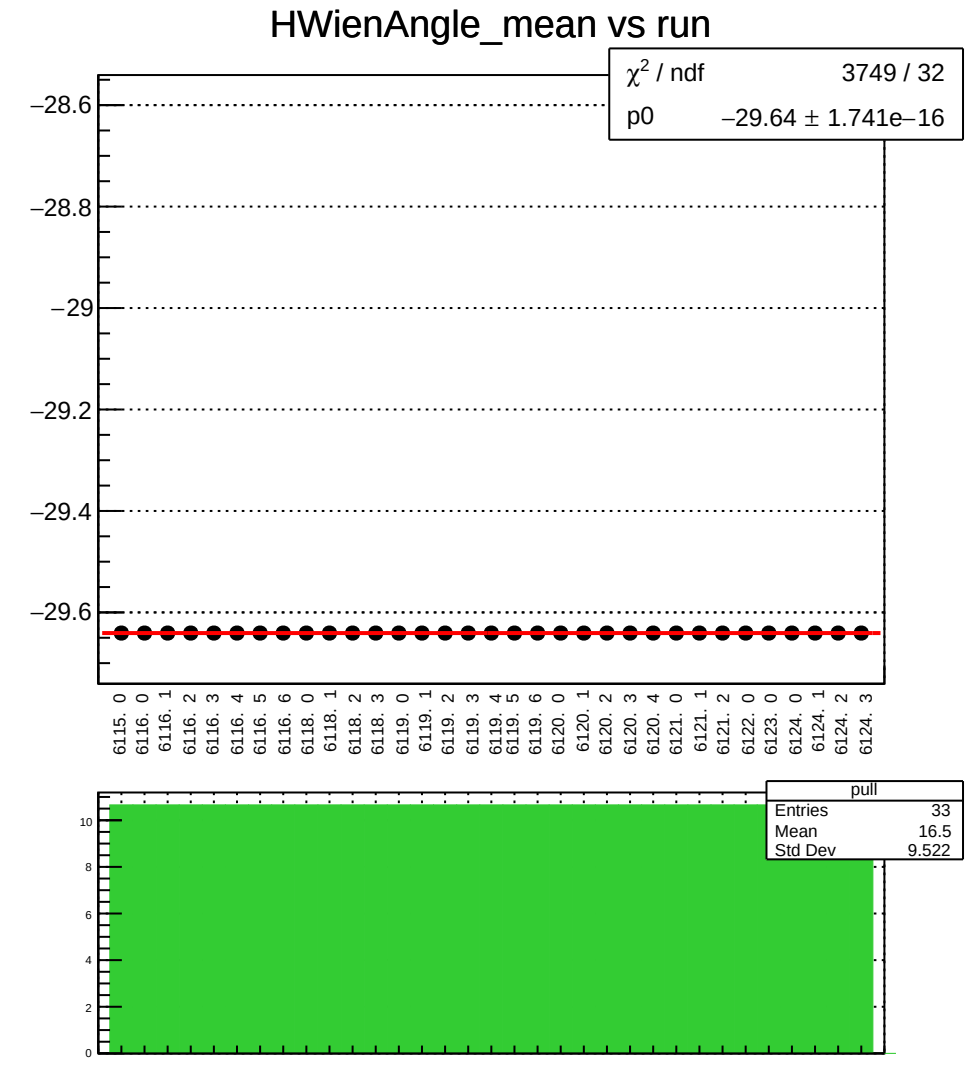

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 146.6 / 32
p0 0.4092 ± 0.4434
20
0
−20
−40
−60
−80
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 76.42
Std Dev 66.87
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.05105
Std Dev 2.107
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

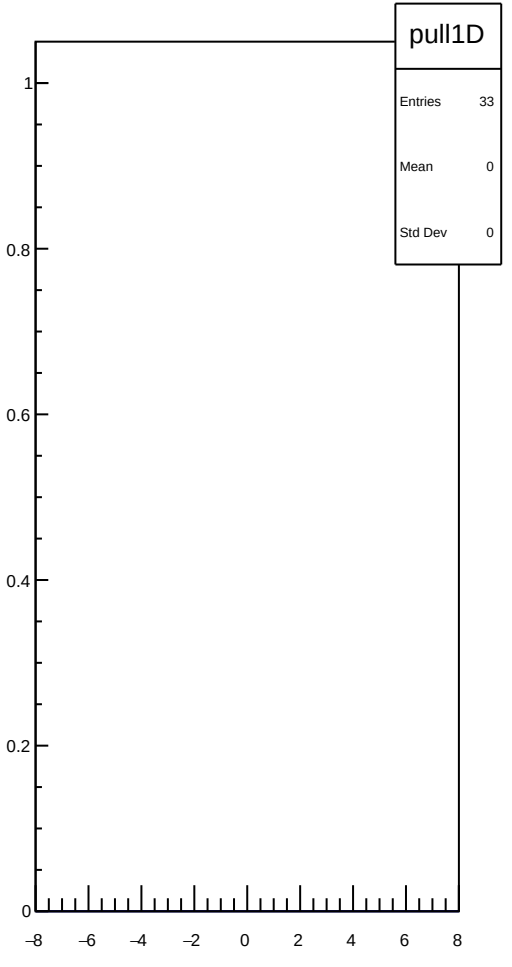

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 81.78 / 32
p0 −2.18 ± 0.8301
40
20
0
−20
−40
−60
−80
−100
−120
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 14.74
Std Dev 10.29
pull1D
Entries 33
Mean −0.144
Std Dev 1.568

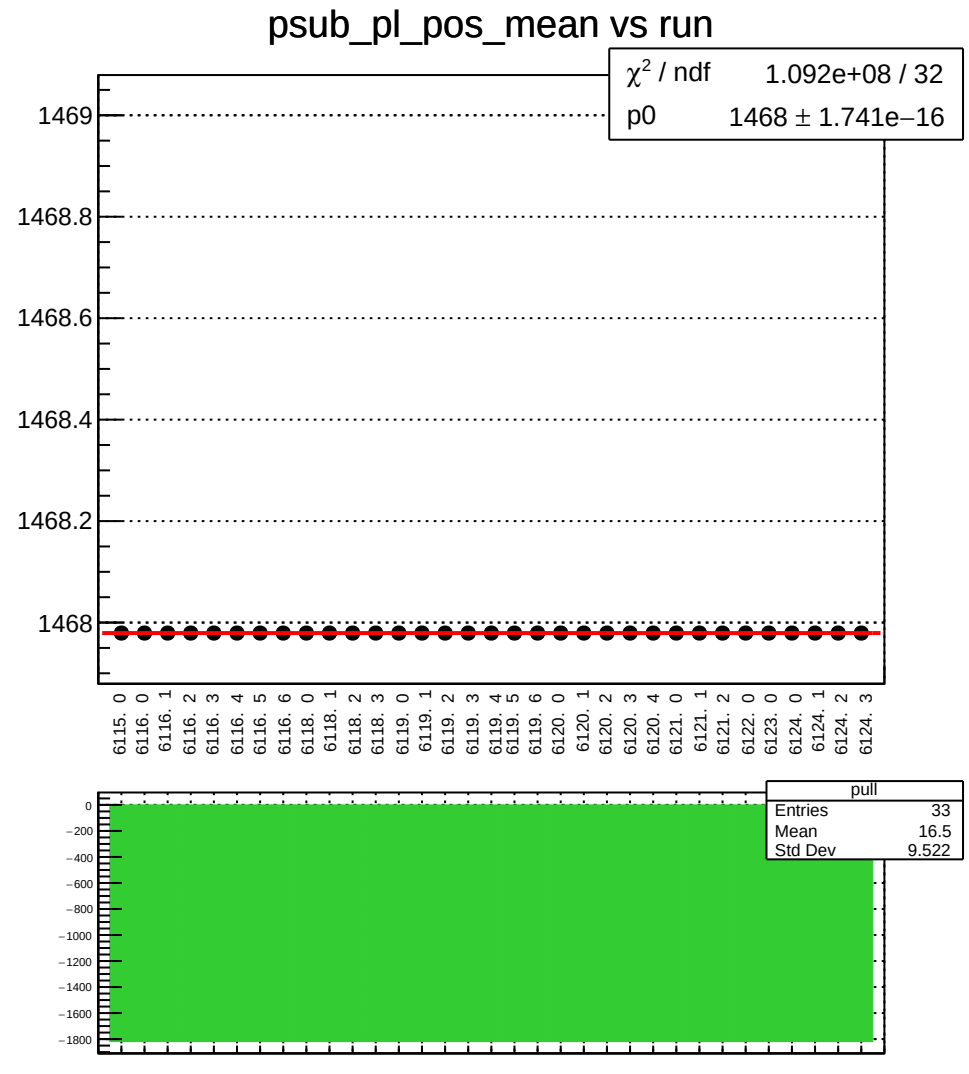

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 154.1 / 32
p0 0.08301± 0.4747
80
60
40
20
0
−20
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 74.27
Std Dev 64.65
6
4
2
0
−2
pull1D
Entries 33
Mean 0.05626
Std Dev 2.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

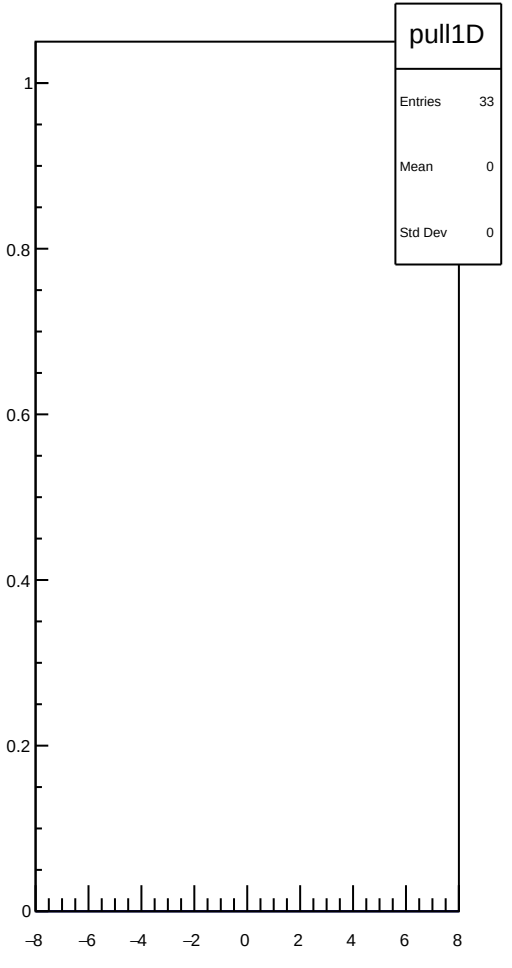

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 123.5 / 32
p0 0.006464 ± 0.03641
pull
Entries 33
Mean 17.84
Std Dev 4.949
pull1D
Entries 33
Mean 0.4134
Std Dev 1.89

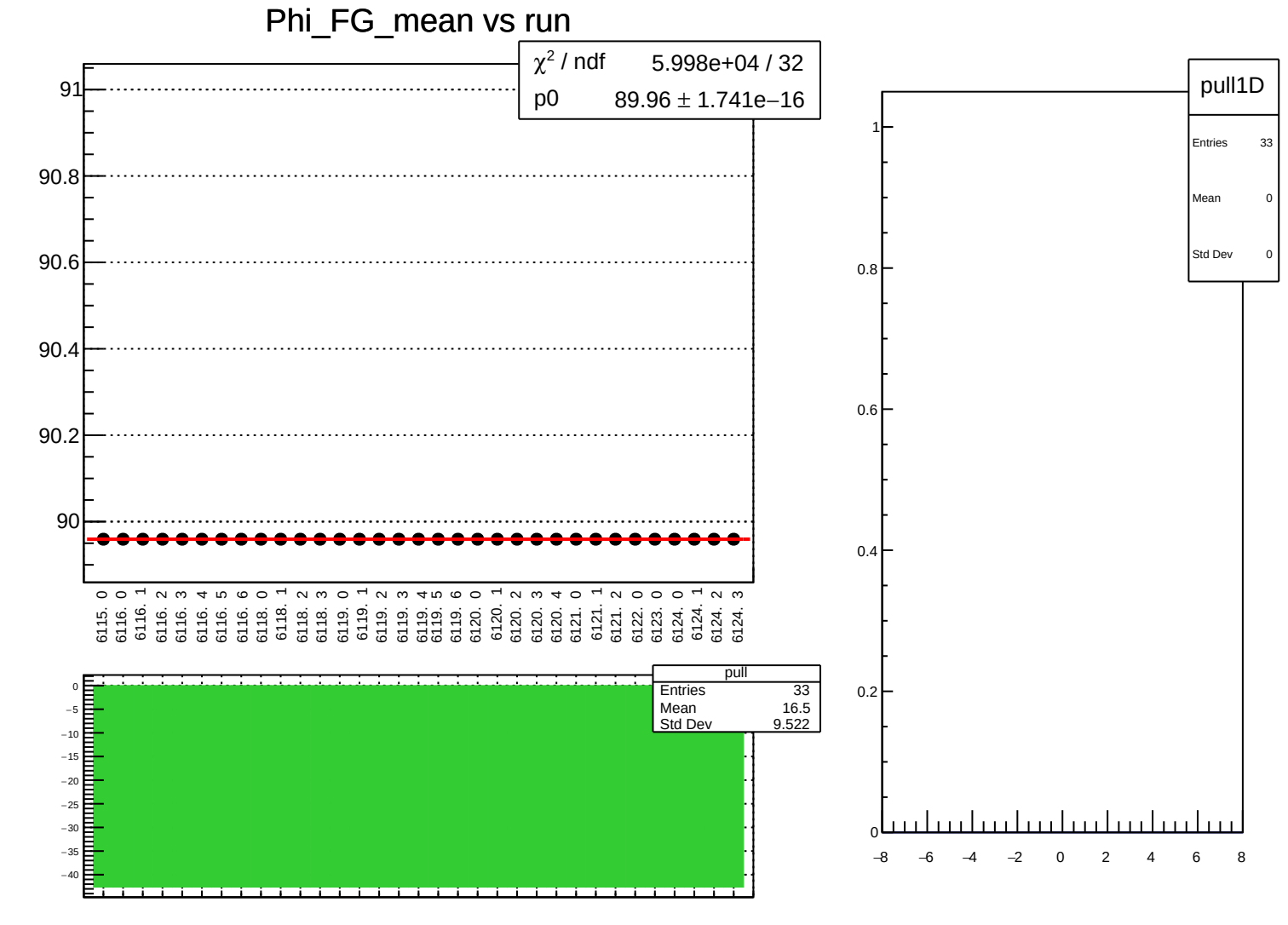

VWienAngle_mean vs run
χ² / ndf 1.066e+05 / 32
p0 88 ± 1.741e−16
89
88.8
88.6
88.4
88.2
88
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−10
−20
−30
−40
−50
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

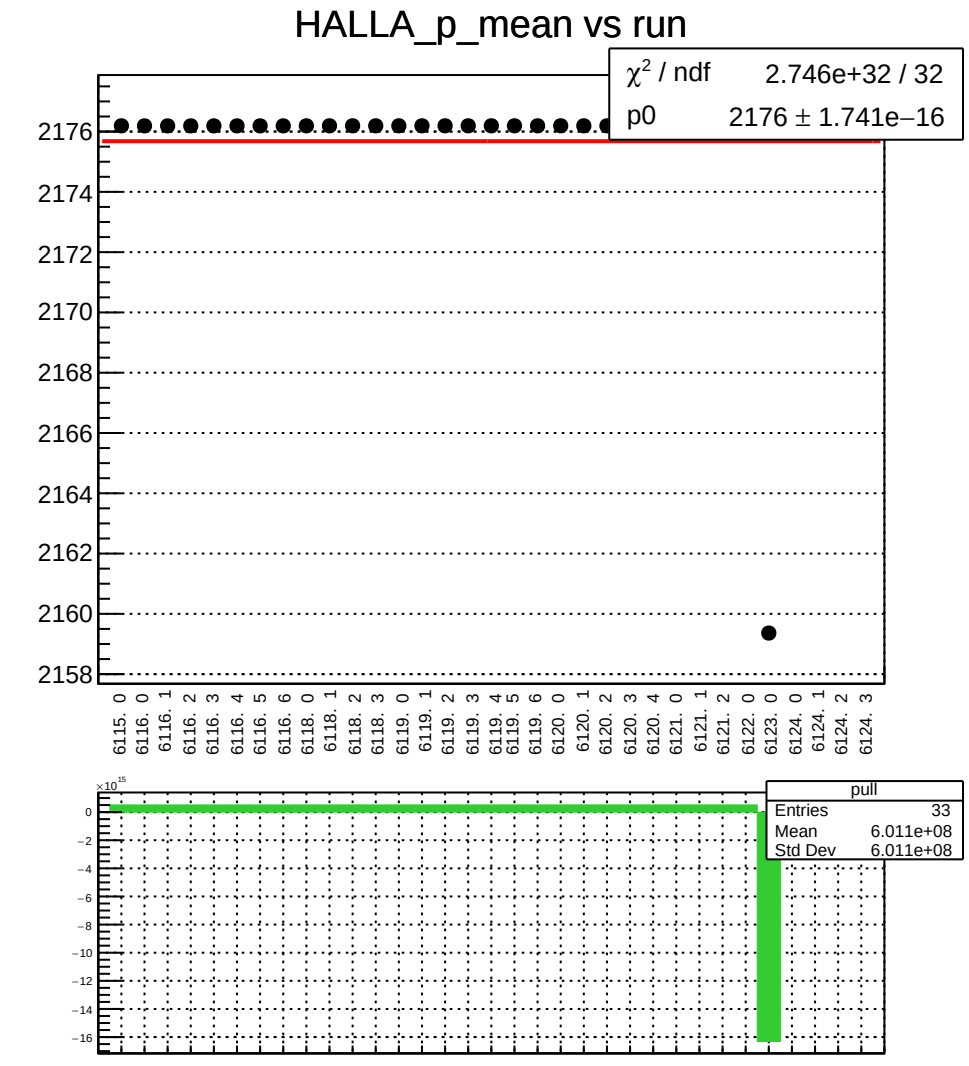

HWienAngle_mean vs run
χ² / ndf 3749 / 32
p0 −29.64 ± 1.741e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
2
4
6
8
10

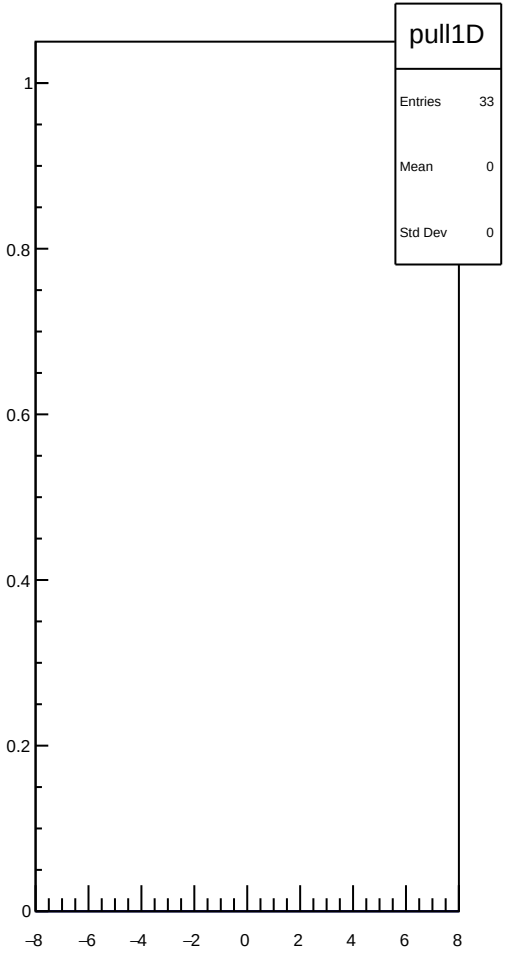

pull1D
Entries 33
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

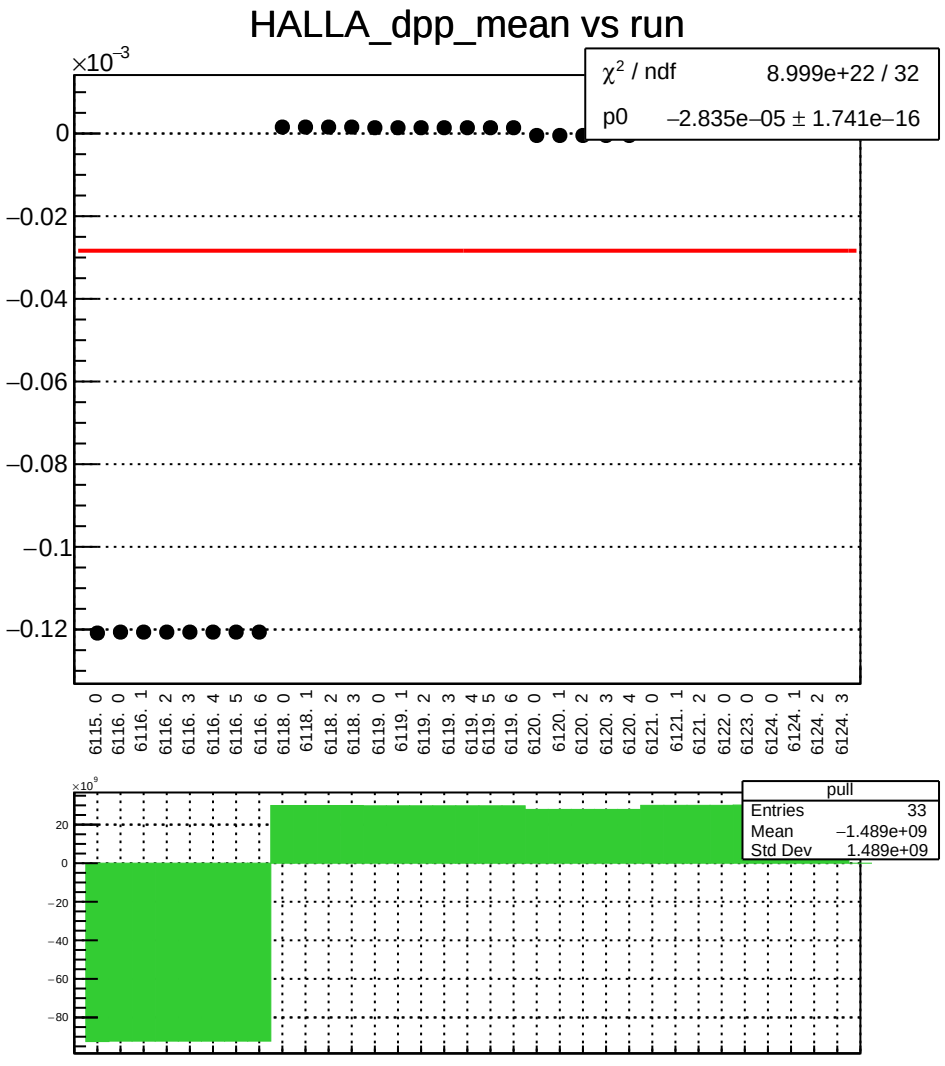

psub_pl_pos_mean vs run
χ² / ndf 1.092e+08 / 32
p0 1468 ± 1.741e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

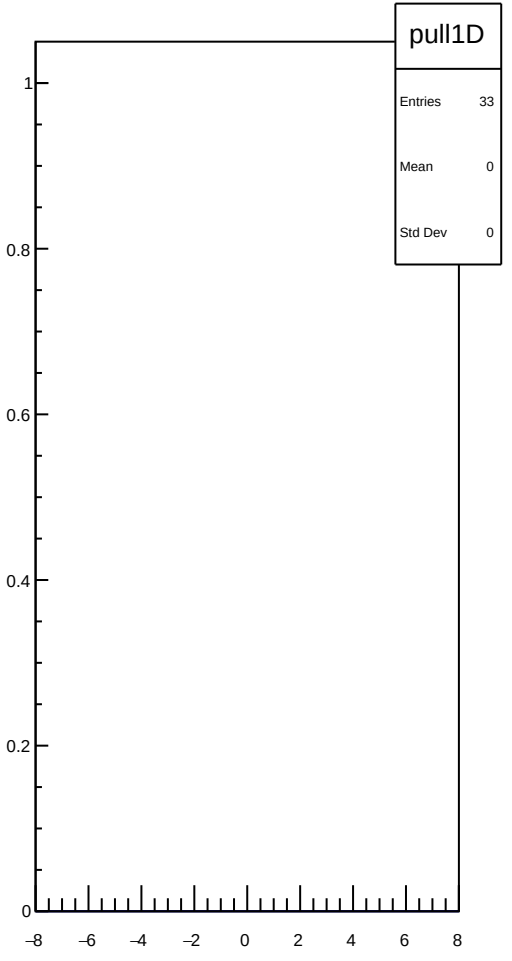

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

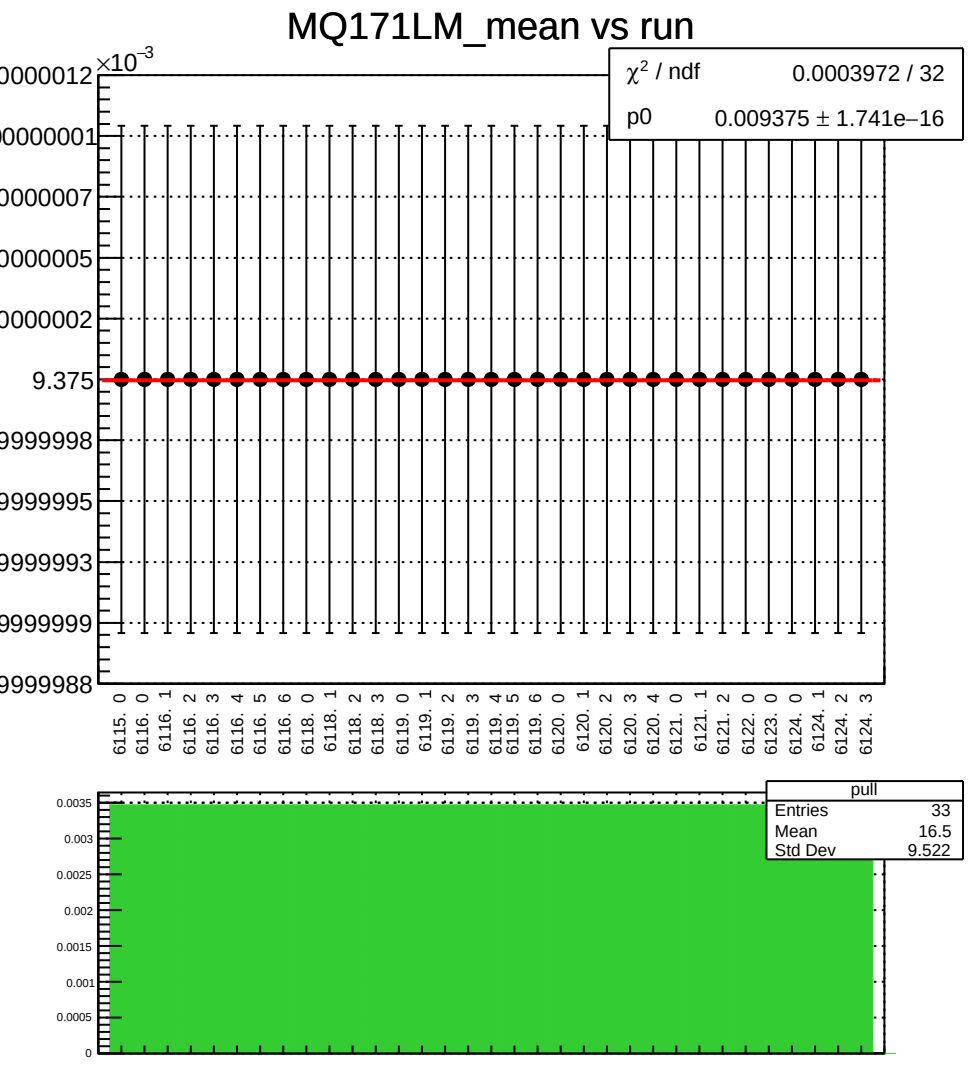

Phi_FG_mean vs run
χ² / ndf 5.998e+04 / 32
p0 89.96 ± 1.741e−16
91
90.8
90.6
90.4
90.2
90
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

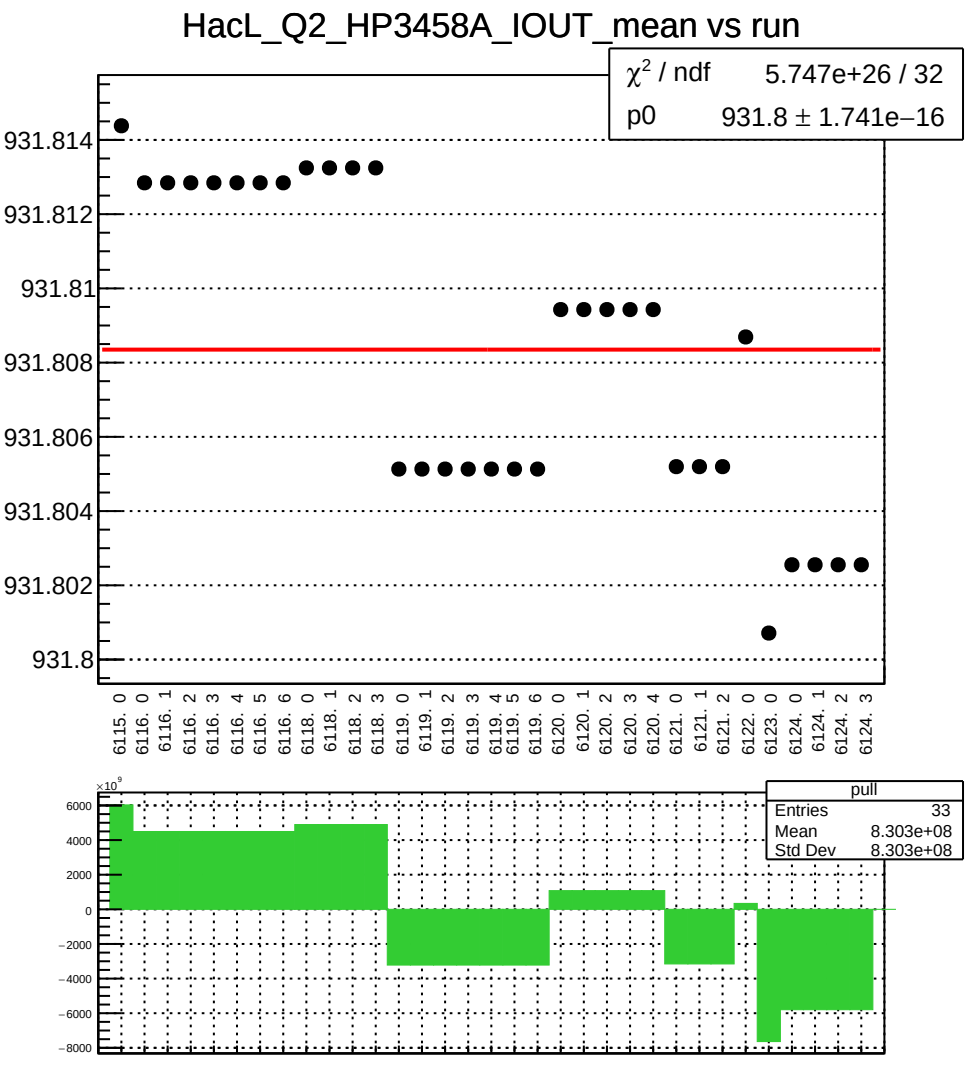

HALLA_p_mean vs run
χ² / ndf 2.746e+32 / 32
p0 2176 ± 1.741e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 33
Mean 6.011e+08
Std Dev 6.011e+08

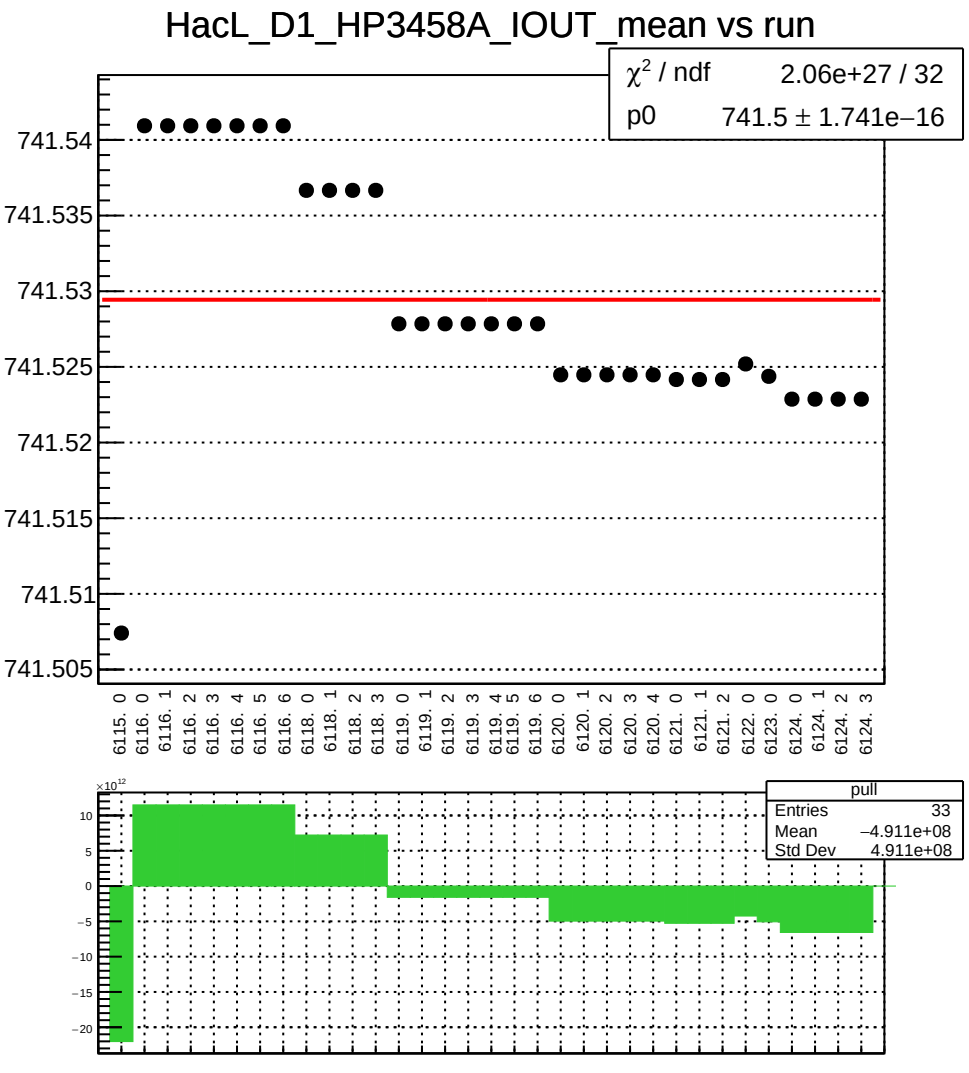

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

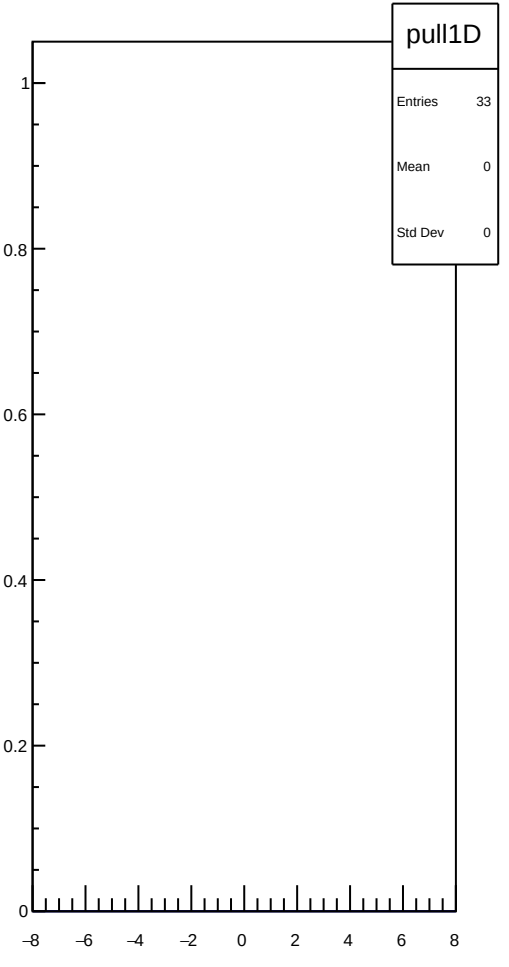

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 8.999e+22 / 32
p0 −2.835e−05 ± 1.741e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
20
0
−20
−40
−60
−80
pull
Entries 33
Mean −1.489e+09
Std Dev 1.489e+09

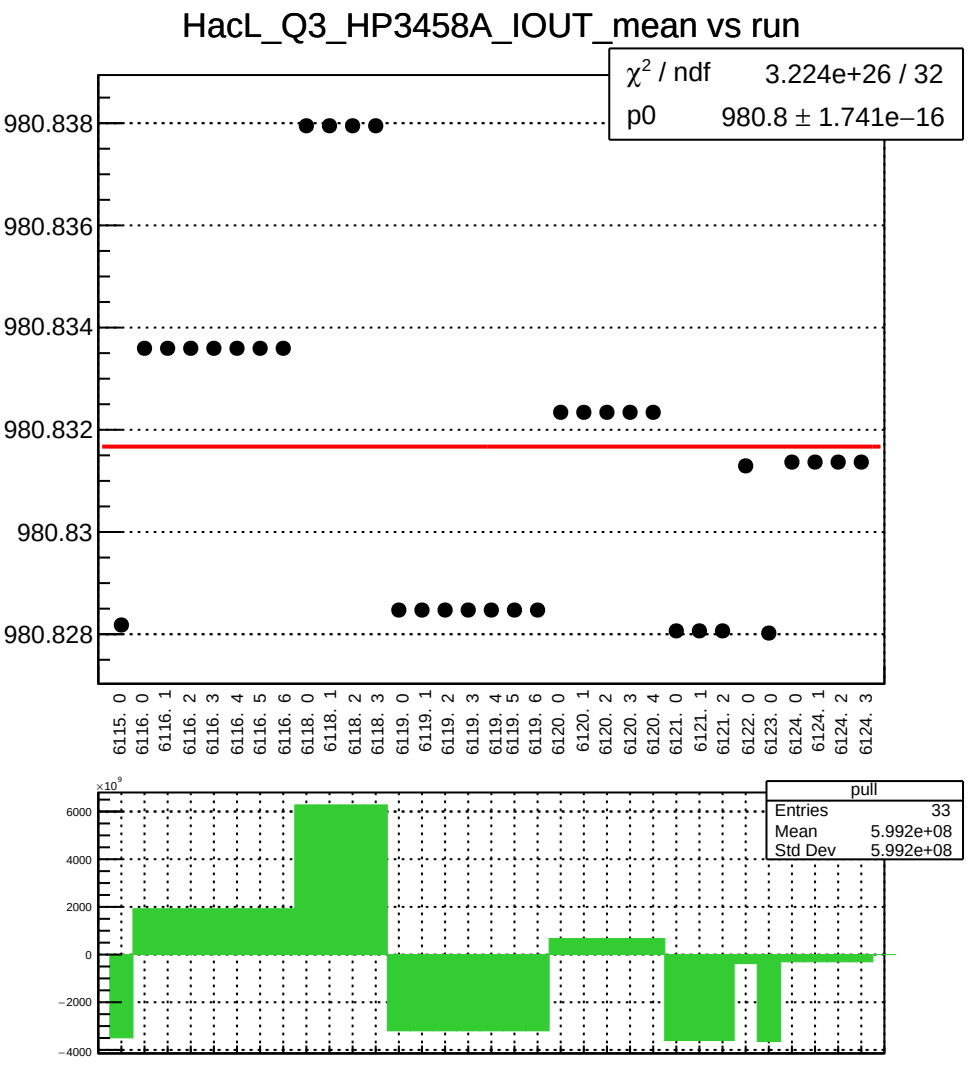

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

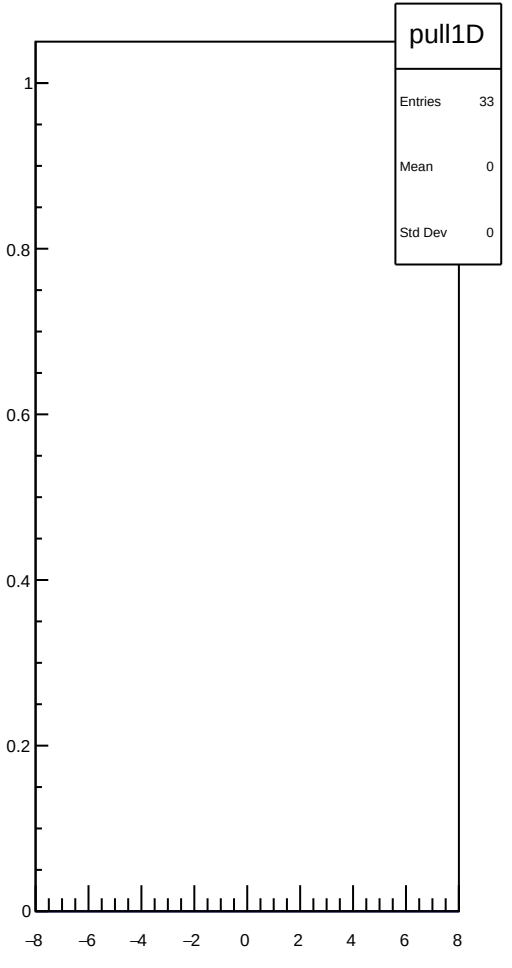

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
9.375
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 9.203e−11
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

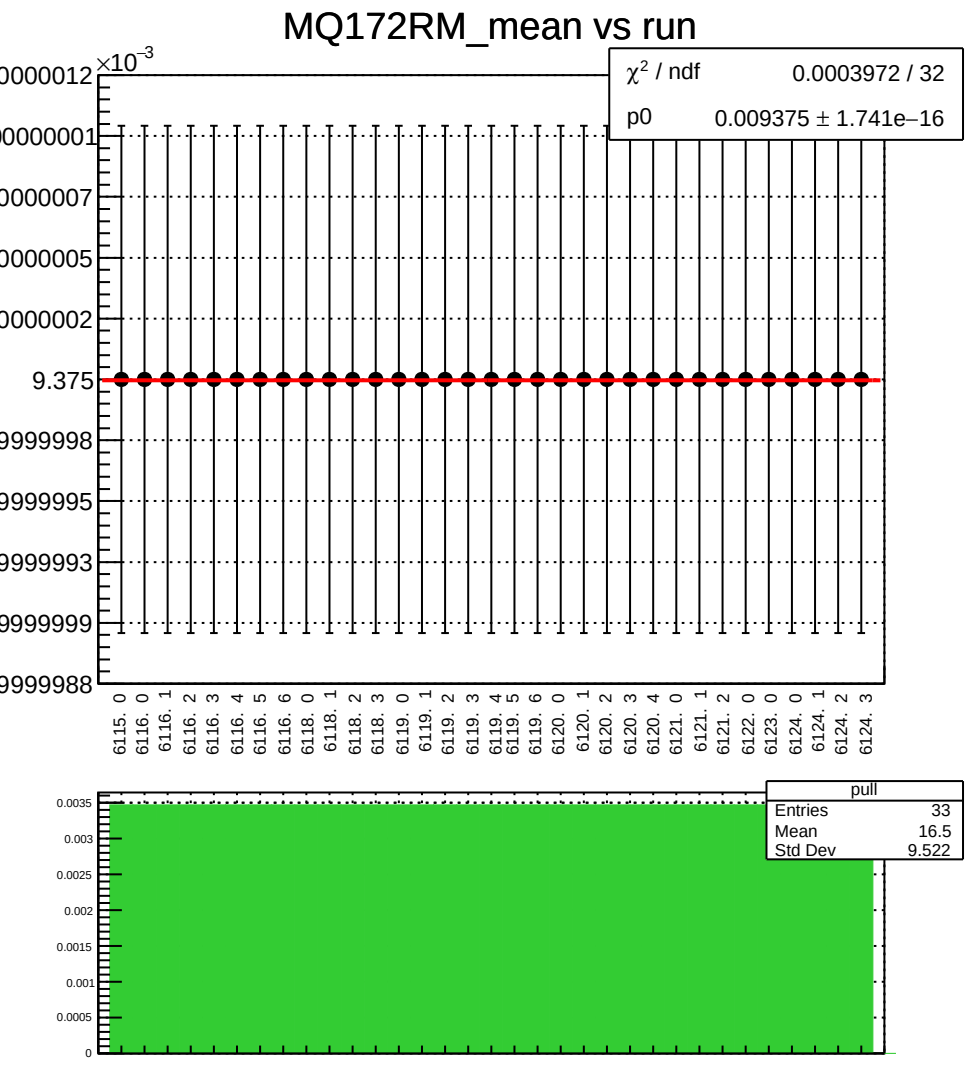

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.747e+26 / 32
p0 931.8 ± 1.741e−16
931.814
931.812
931.81
931.808
931.806
931.804
931.802
931.8
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 33
Mean 8.303e+08
Std Dev 8.303e+08
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

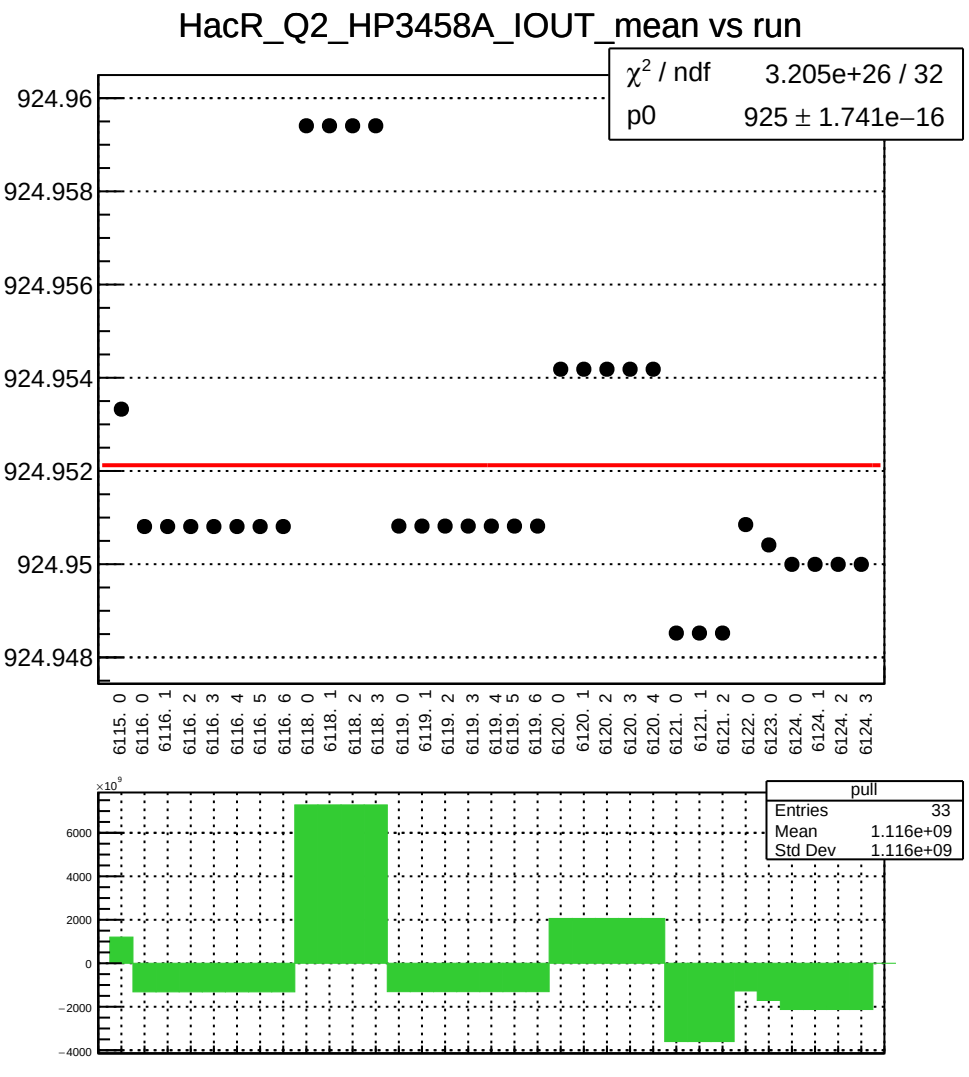

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.06e+27 / 32
p0 741.5 ± 1.741e−16
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10¹²
10
5
0
−5
−10
−15
−20
pull
Entries 33
Mean −4.911e+08
Std Dev 4.911e+08

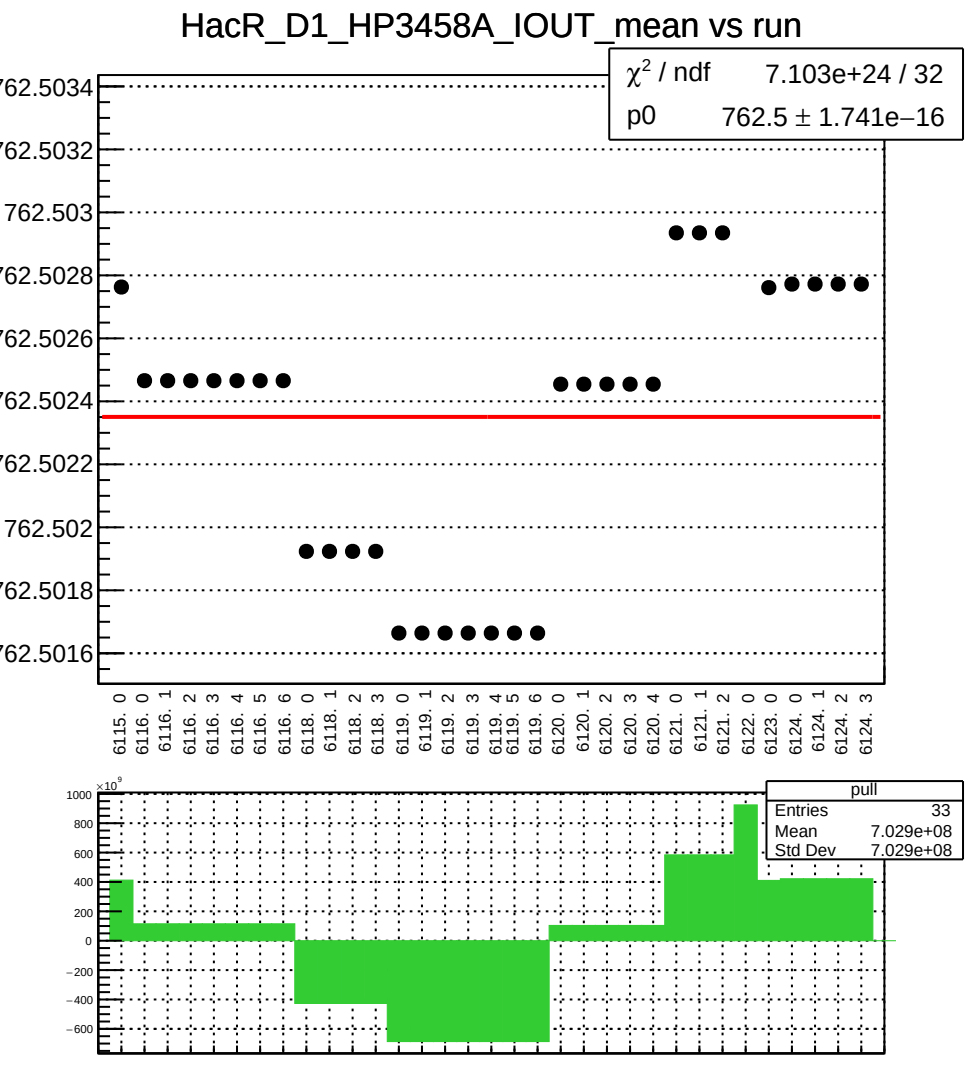

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

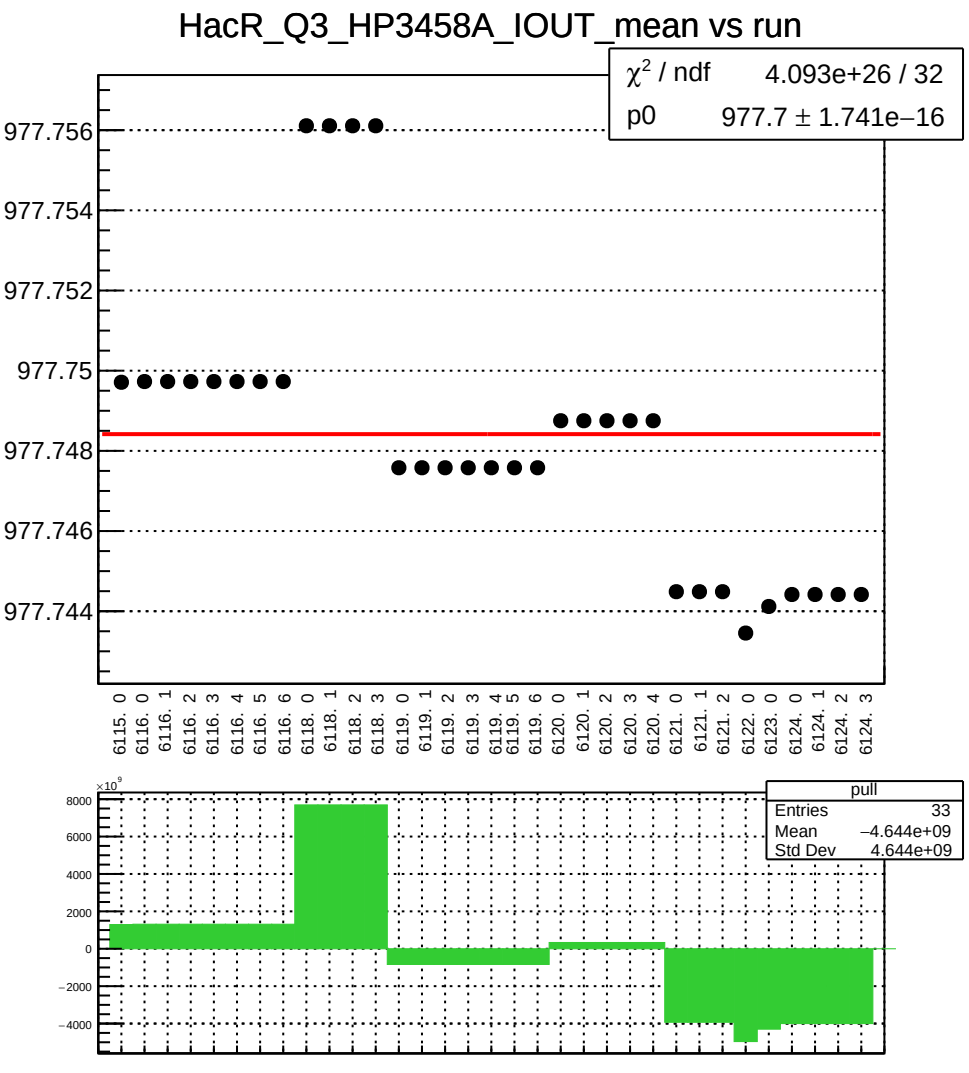

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.224e+26 / 32
p0 980.8 ± 1.741e−16
980.838
980.836
980.834
980.832
980.83
980.828
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 33
Mean 5.992e+08
Std Dev 5.992e+08

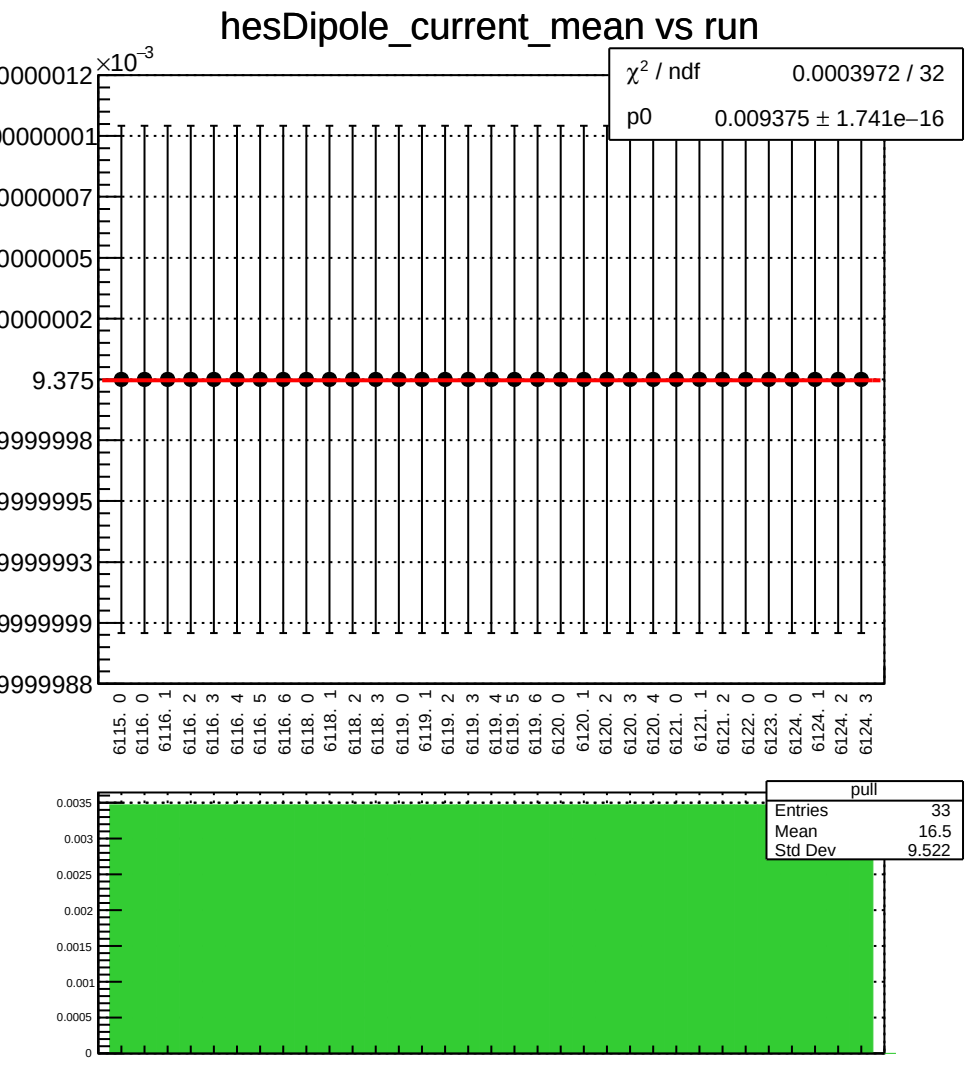

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

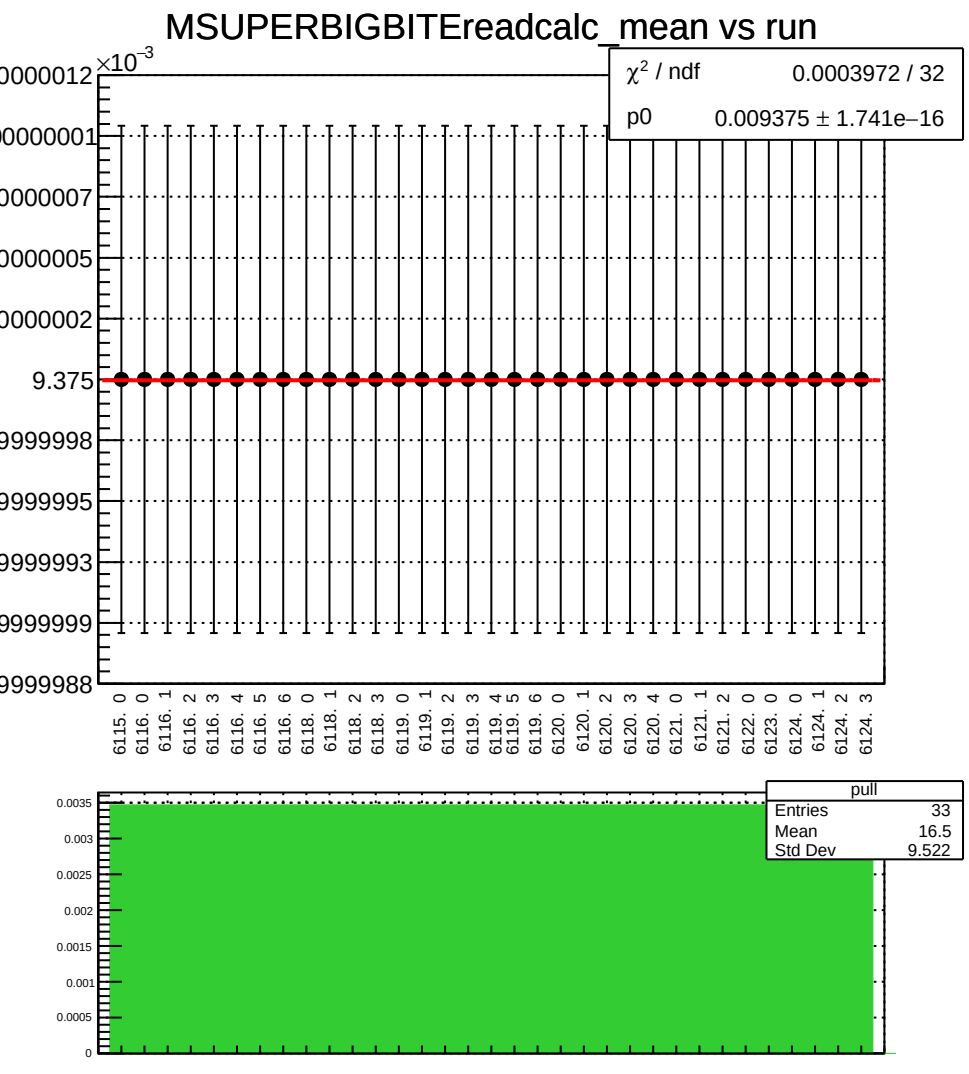

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 9.203e−11
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

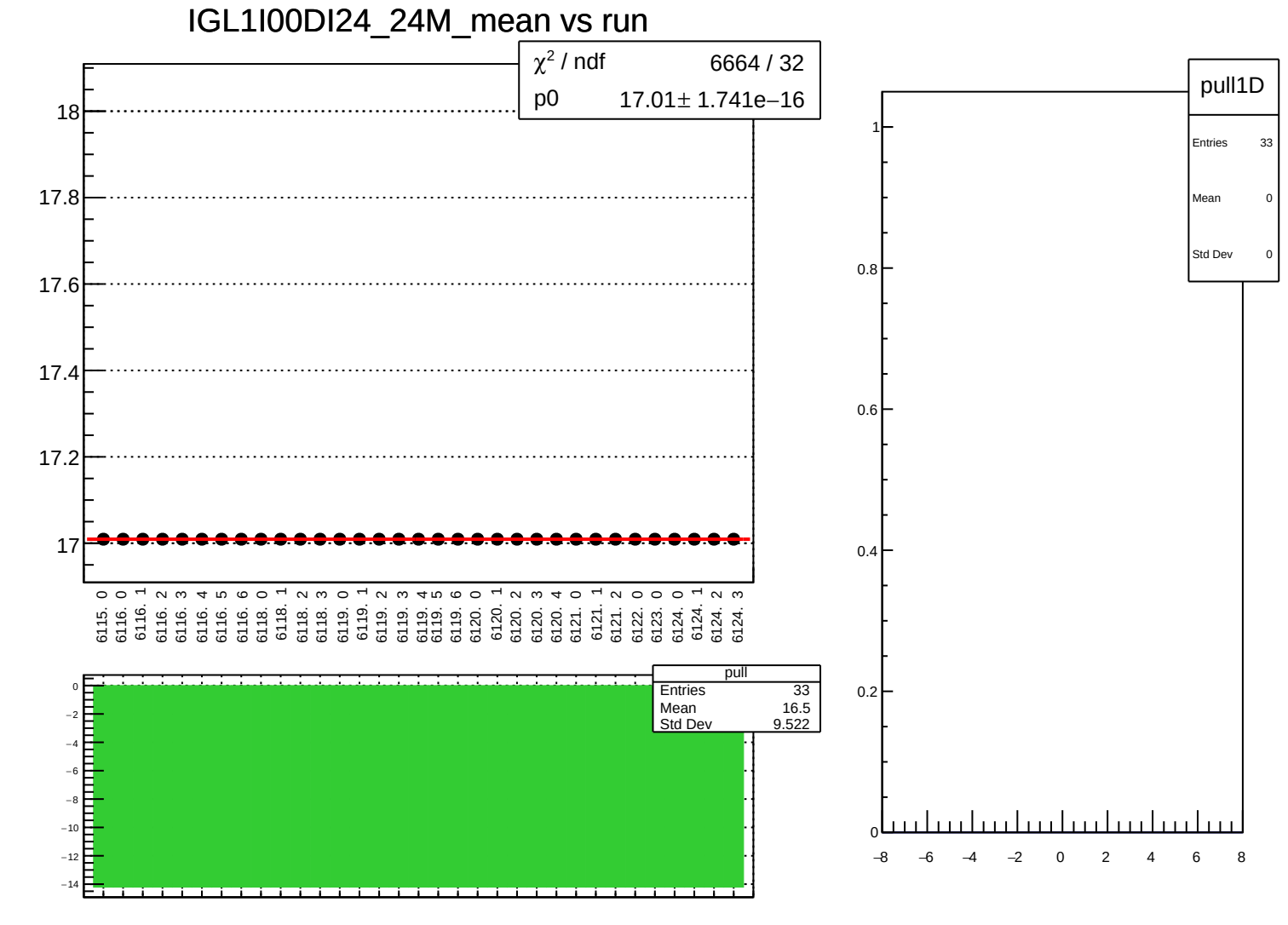

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.205e+26 / 32
p0 925 ± 1.741e−16
924.96
924.958
924.956
924.954
924.952
924.95
924.948
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 33
Mean 1.116e+09
Std Dev 1.116e+09
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

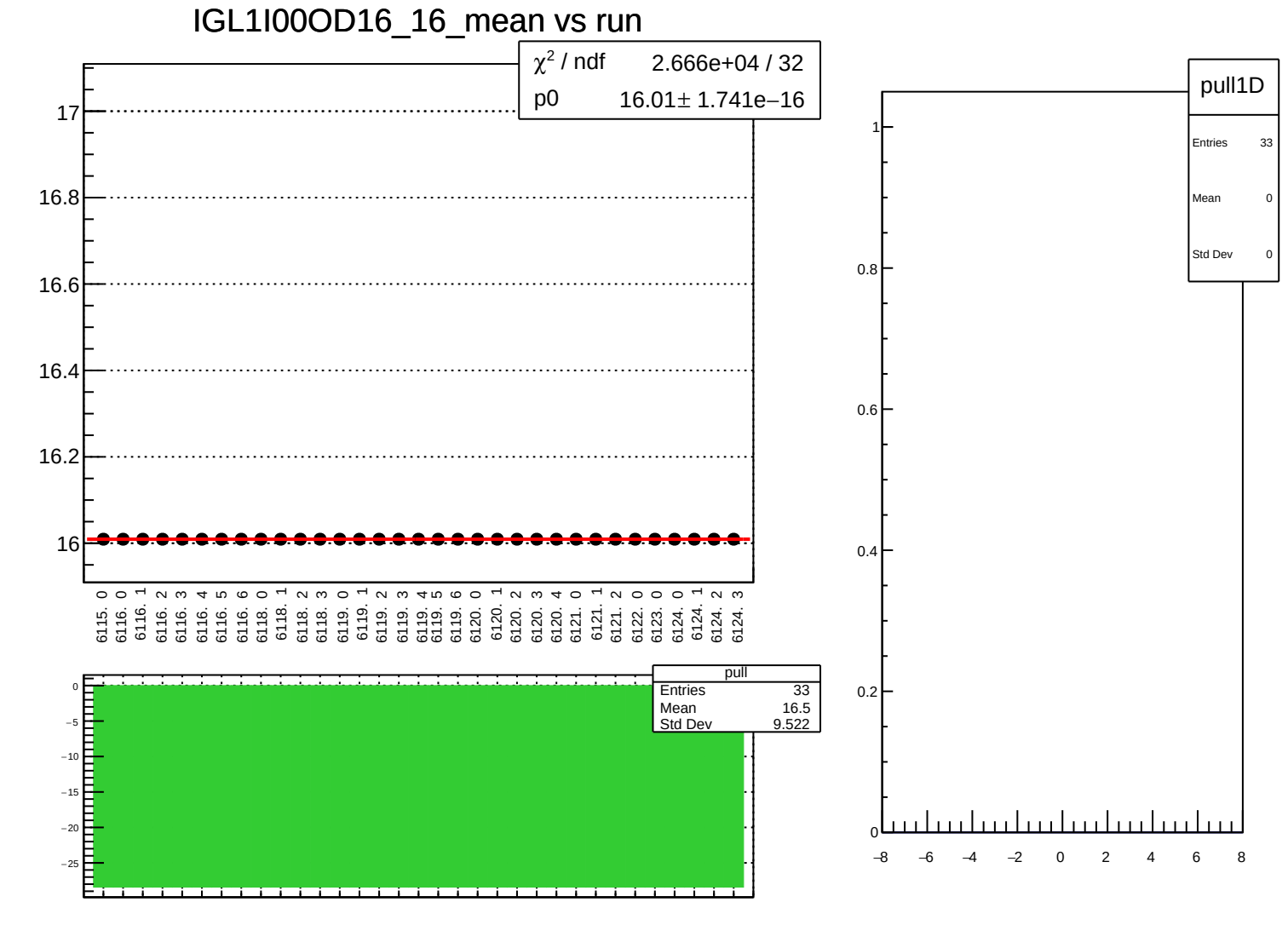

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.103e+24 / 32
p0 762.5 ± 1.741e−16
762.5034
762.5032
762.503
762.5028
762.5026
762.5024
762.5022
762.502
762.5018
762.5016
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 33
Mean 7.029e+08
Std Dev 7.029e+08
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

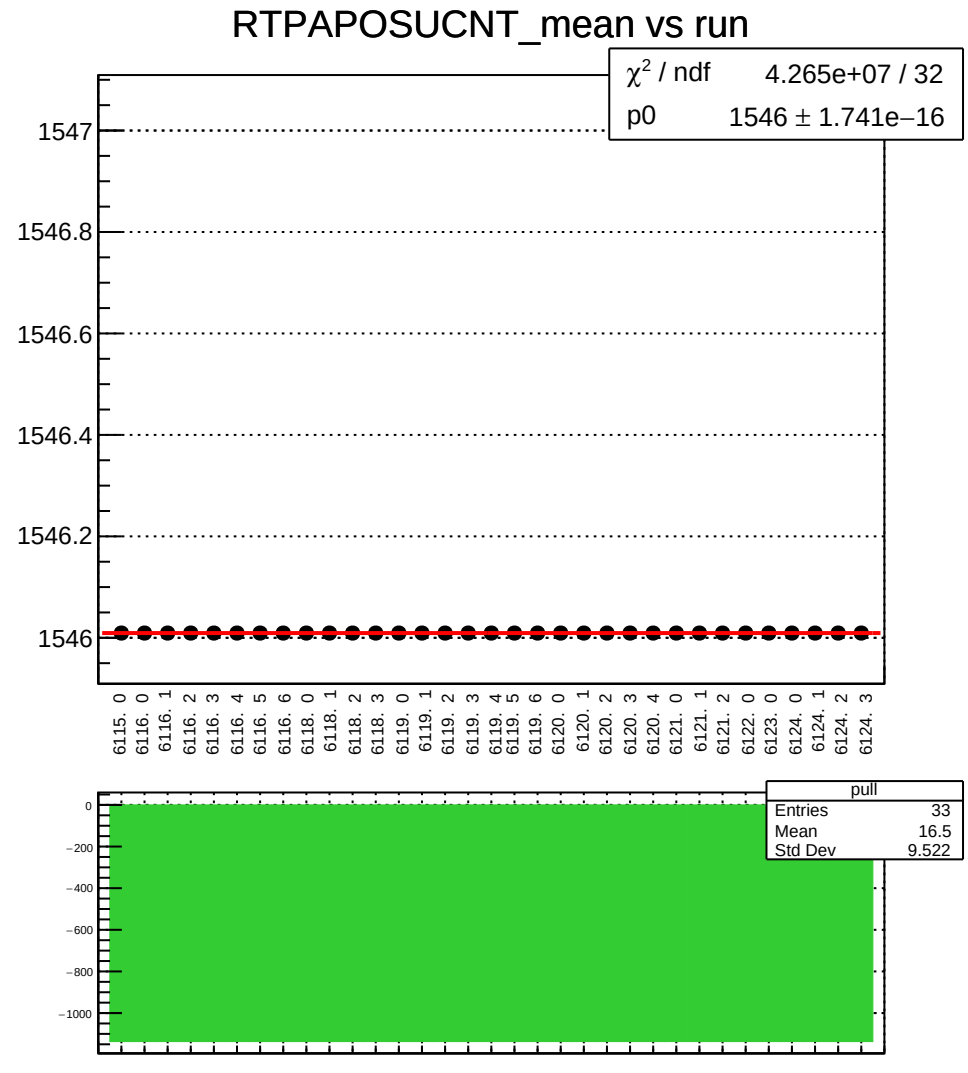

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.093e+26 / 32
p0 977.7 ± 1.741e−16
977.756
977.754
977.752
977.75
977.748
977.746
977.744
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 33
Mean −4.644e+09
Std Dev 4.644e+09
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

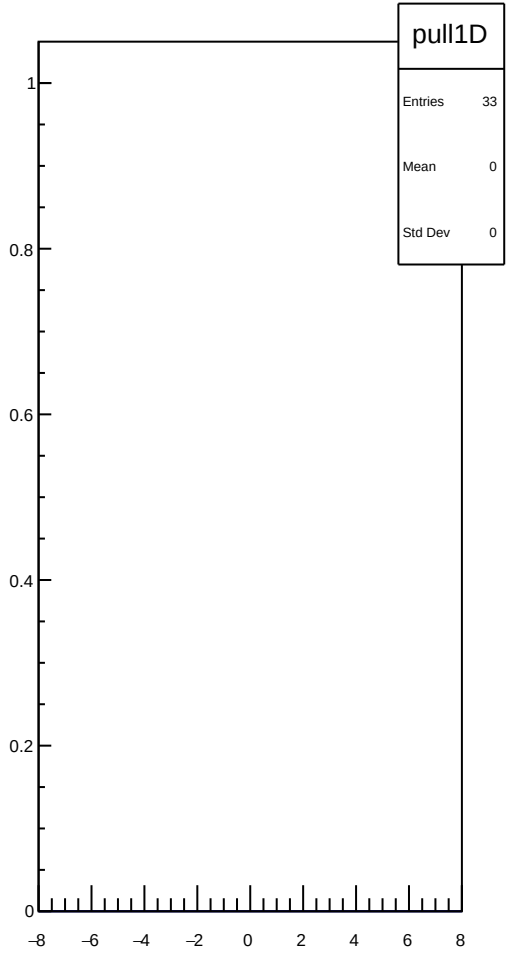

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 9.203e−11
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

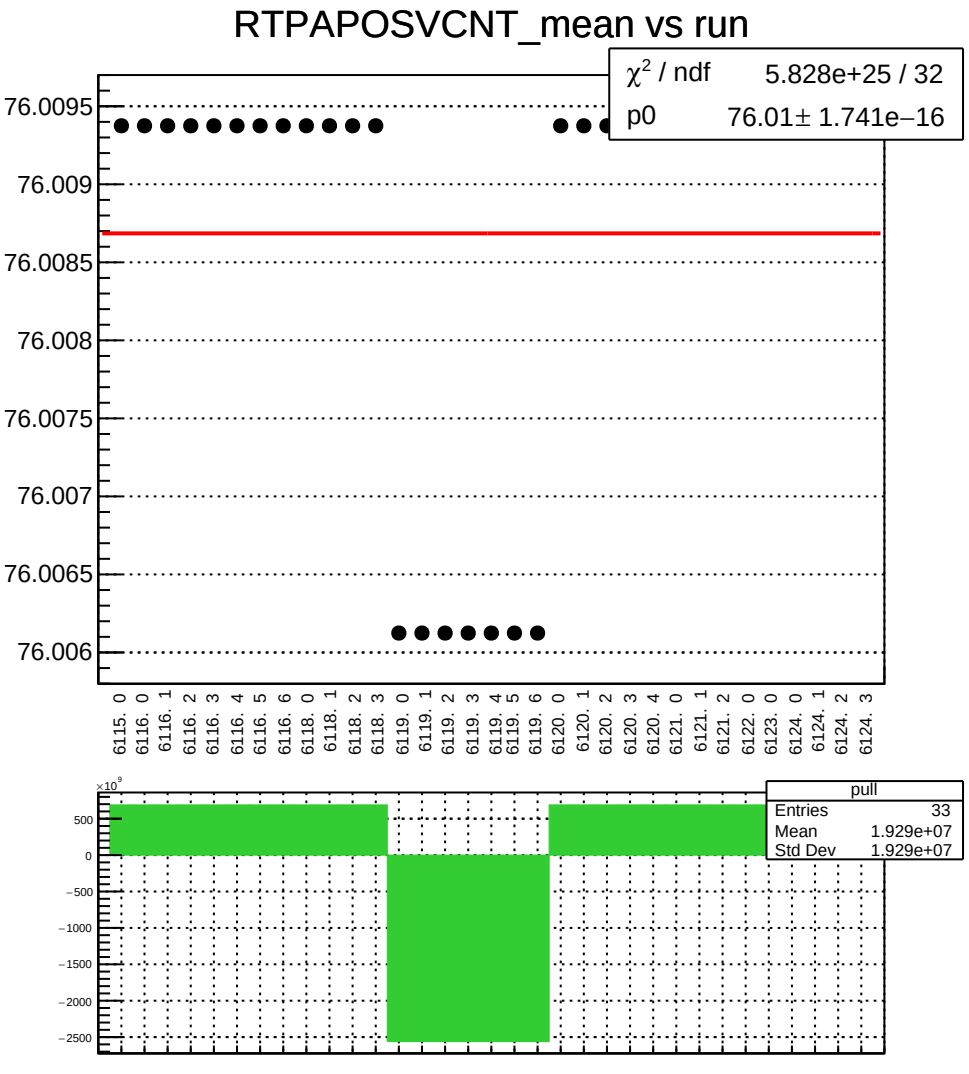

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 9.203e−11
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

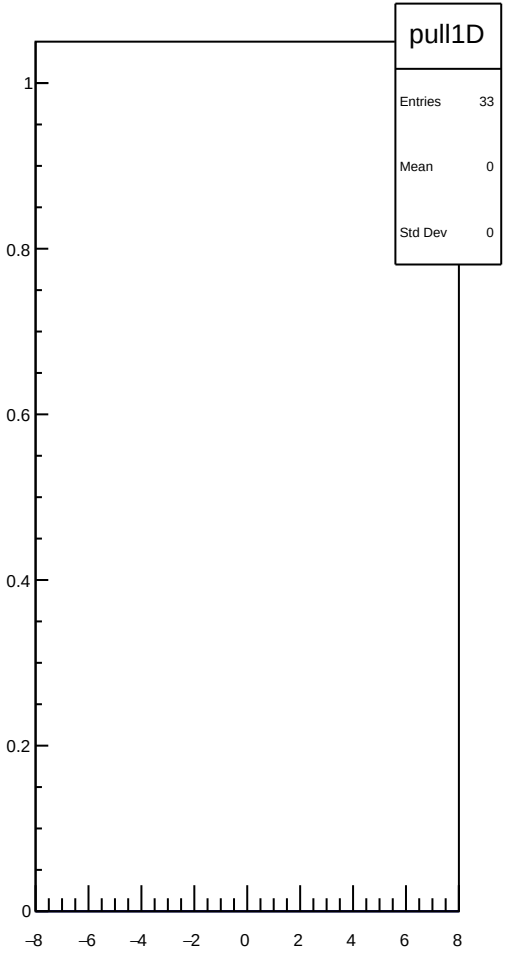

IGL1I00DI24_24M_mean vs run
χ² / ndf 6664 / 32
p0 17.01± 1.741e−16
18
17.8
17.6
17.4
17.2
17
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 2.666e+04 / 32
p0 16.01± 1.741e−16
17
16.8
16.6
16.4
16.2
16
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 4.265e+07 / 32
p0 1546 ± 1.741e−16
1547
1546.8
1546.6
1546.4
1546.2
1546
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−200
−400
−600
−800
−1000


pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 5.828e+25 / 32
p0 76.01± 1.741e−16
76.0095
76.009
76.0085
76.008
76.0075
76.007
76.0065
76.006
6115. 0
6116. 0
6116. 1
6116. 2
6116. 3
6116. 4
6116. 5
6116. 6
6118. 0
6118. 1
6118. 2
6118. 3
6119. 0
6119. 1
6119. 2
6119. 3
6119. 4
6119. 5
6119. 6
6120. 0
6120. 1
6120. 2
6120. 3
6120. 4
6121. 0
6121. 1
6121. 2
6122. 0
6123. 0
6124. 0
6124. 1
6124. 2
6124. 3
×10⁹
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 33
Mean 1.929e+07
Std Dev 1.929e+07


pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8