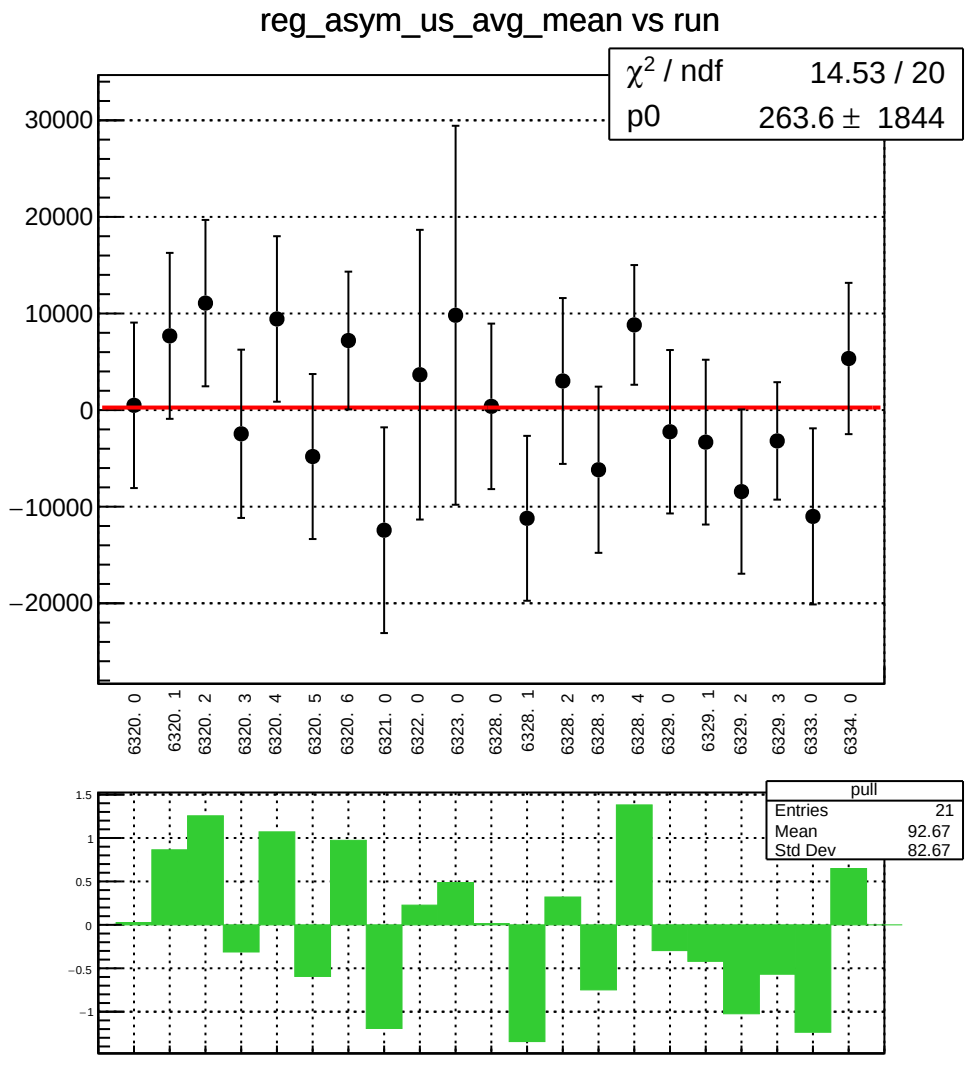
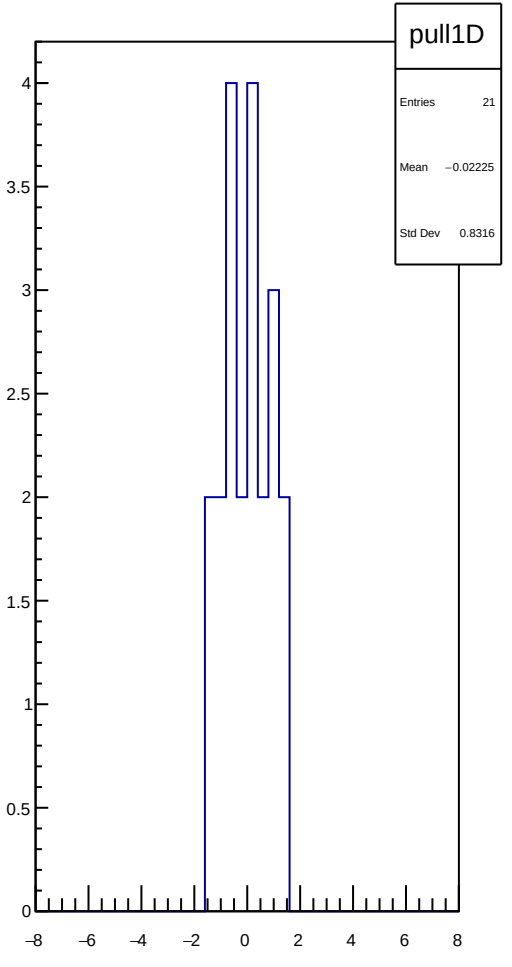
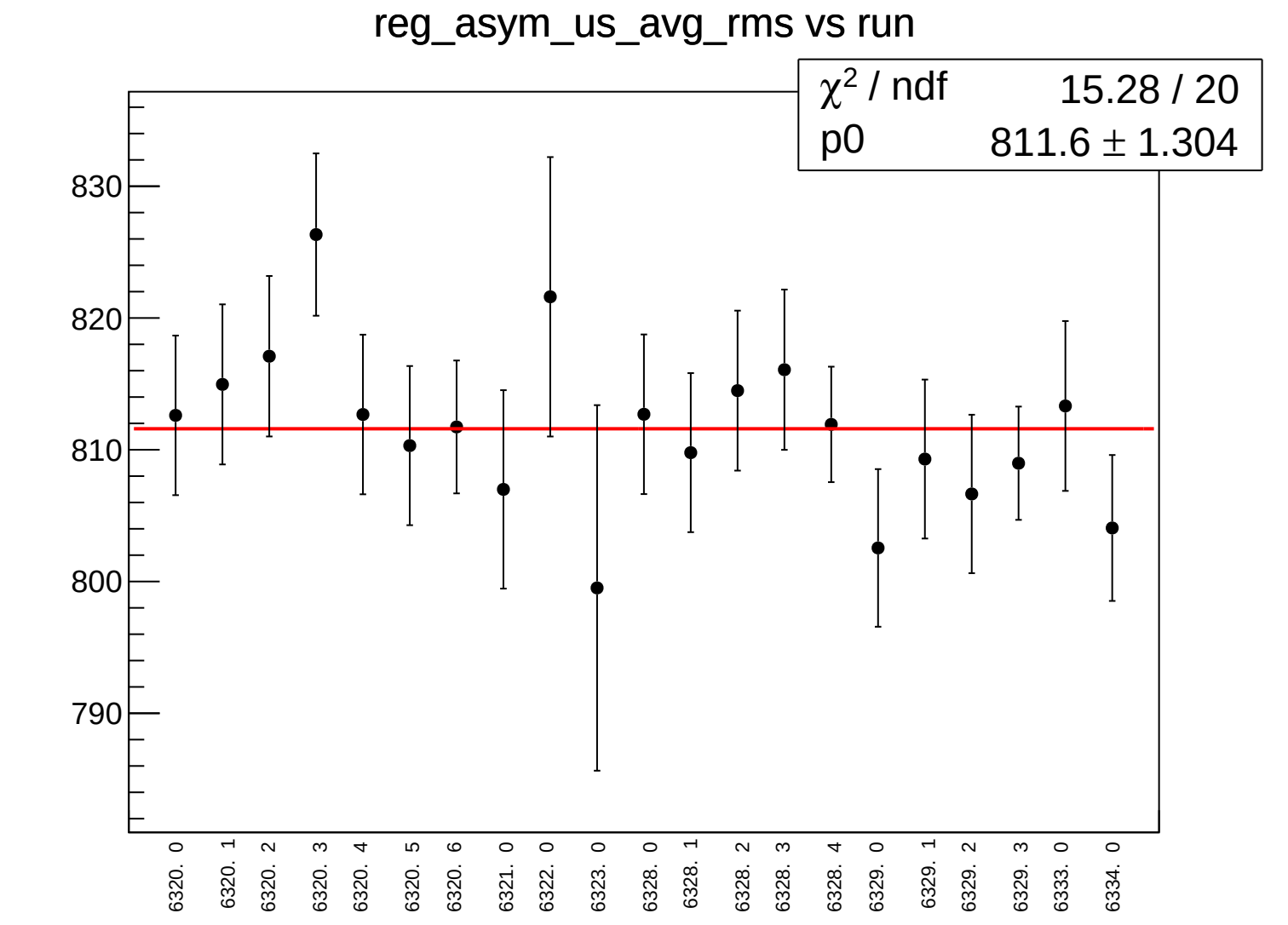
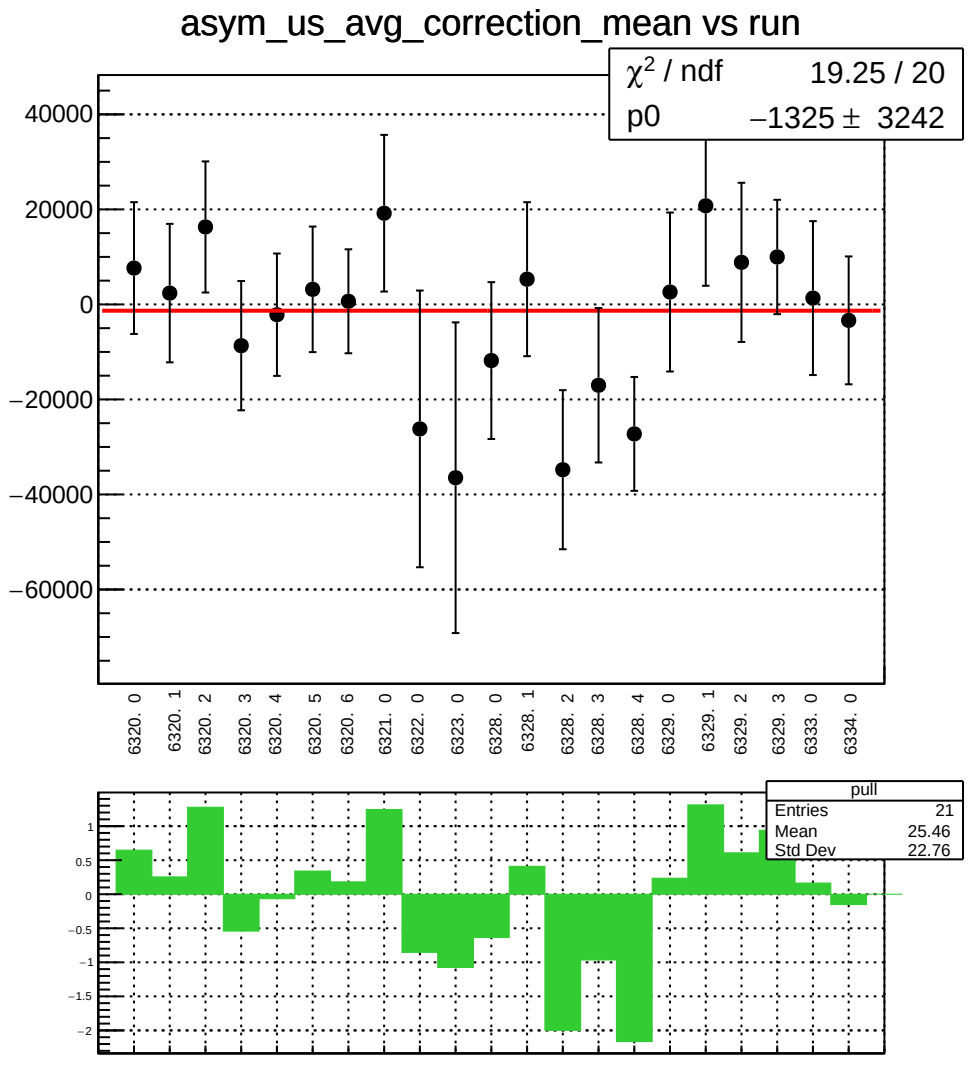
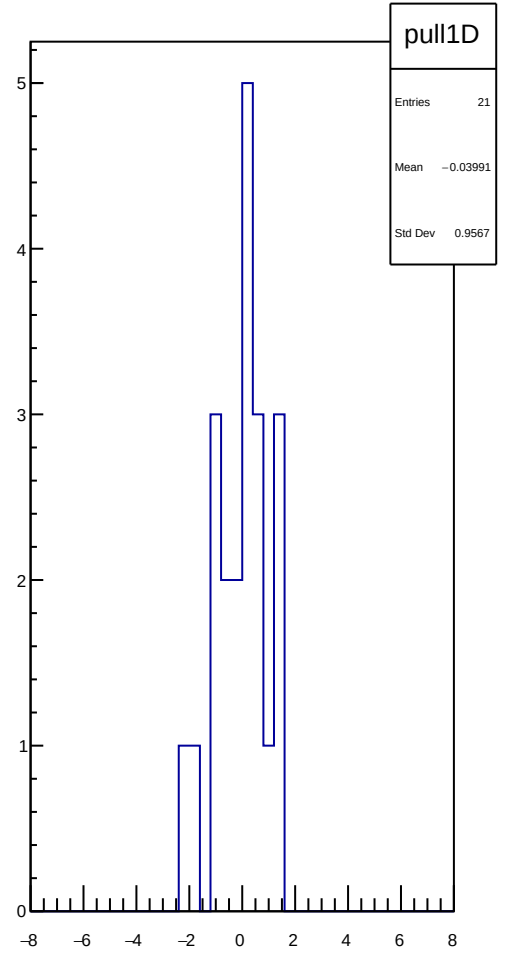
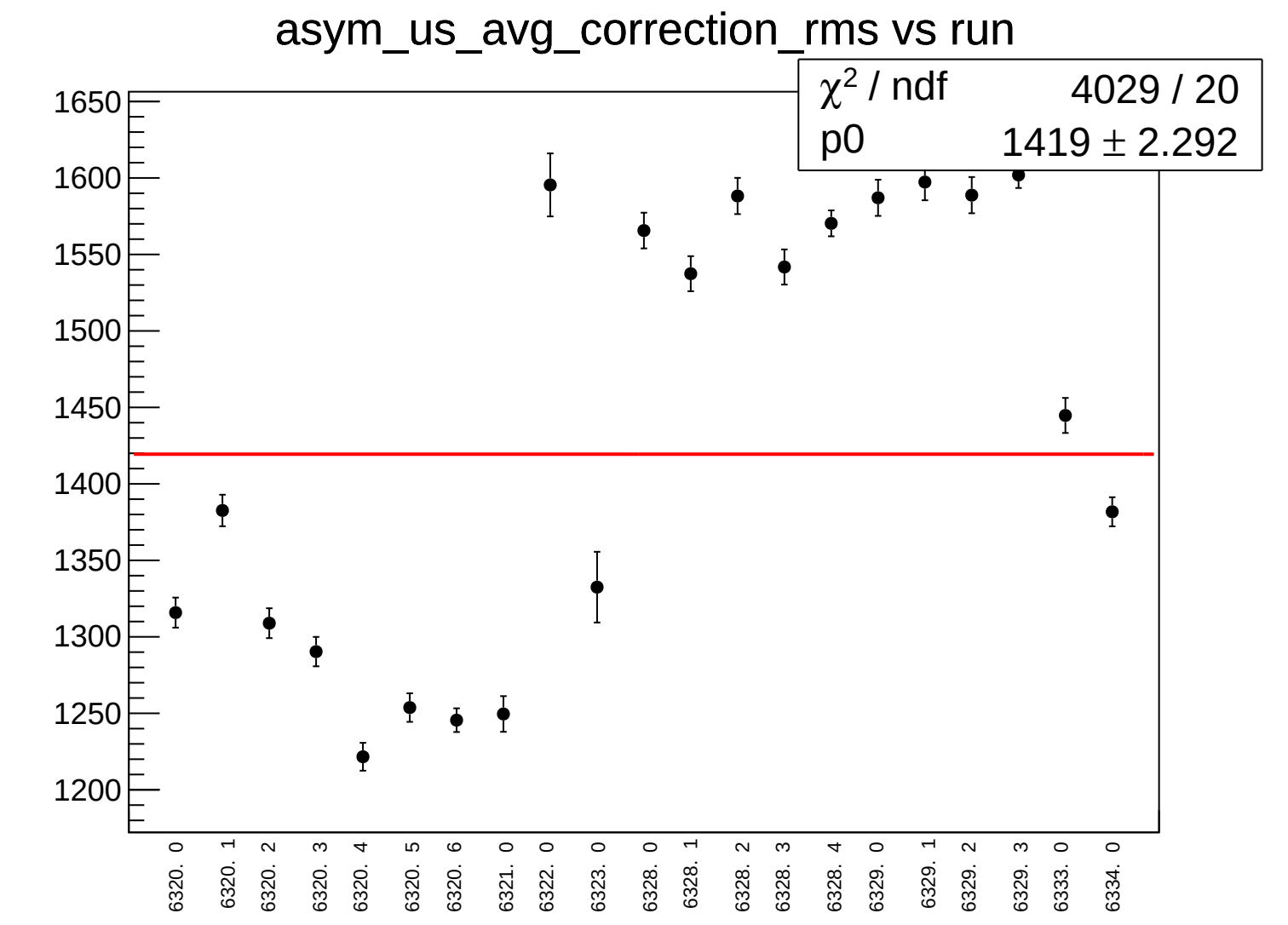

reg_asym_us_avg_mean vs run
χ² / ndf 14.53 / 20
p0 263.6 ± 1844
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 92.67
Std Dev 82.67
1.5
1
0.5
0
−0.5
−1

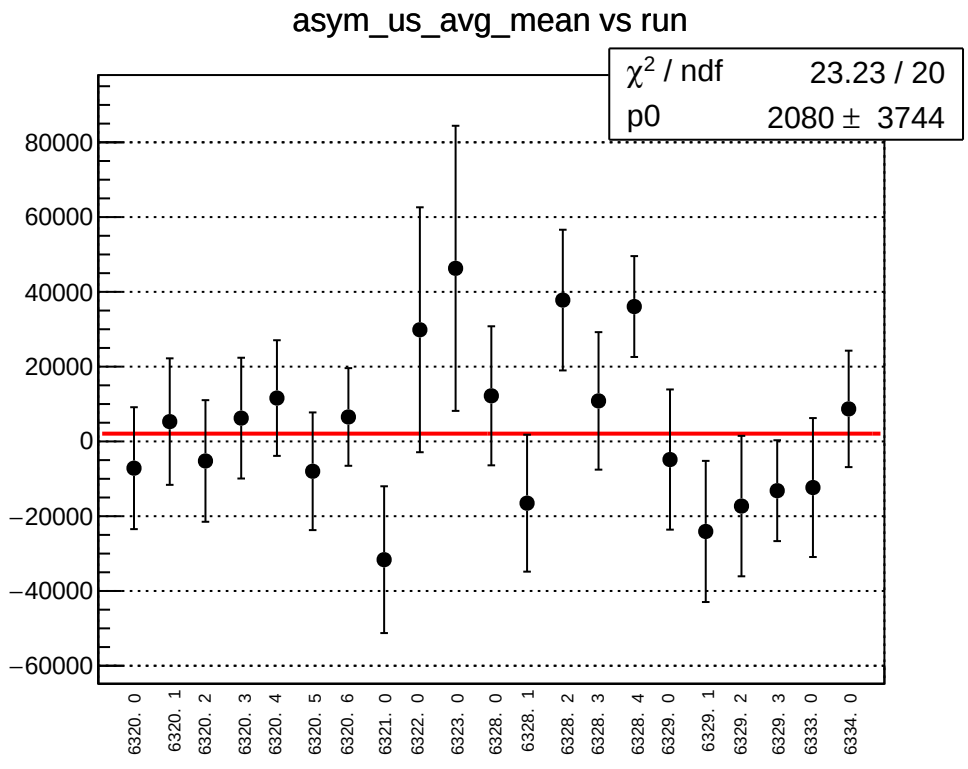

pull1D
Entries 21
Mean −0.02225
Std Dev 0.8316
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

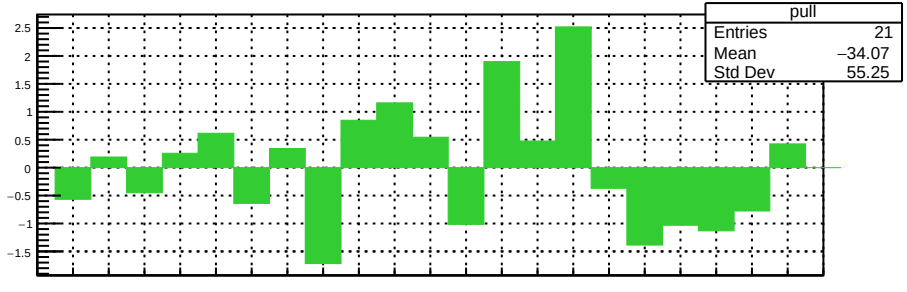

reg_asym_us_avg_rms vs run
χ^2 / ndf 15.28 / 20
p0 811.6 ± 1.304
830
820
810
800
790
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

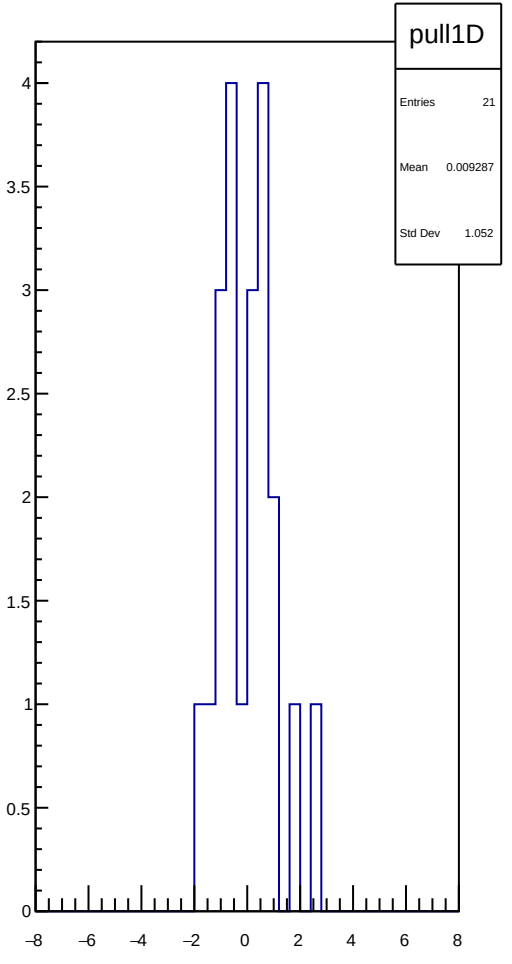

asym_us_avg_correction_mean vs run
χ² / ndf 19.25 / 20
p0 −1325 ± 3242
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.46
Std Dev 22.76
1
0.5
0
−0.5
−1
−1.5
−2

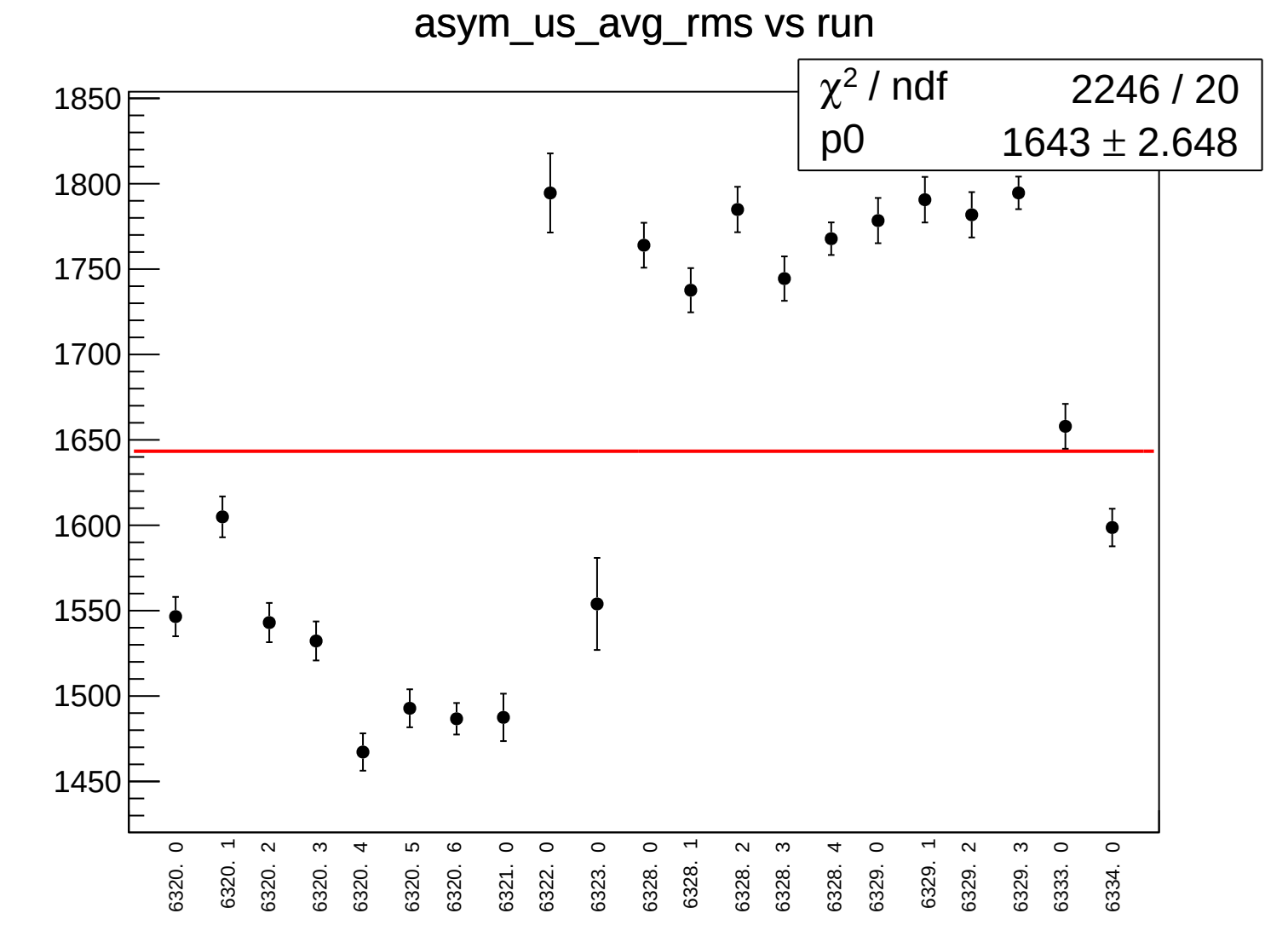

pull1D
Entries 21
Mean −0.03991
Std Dev 0.9567
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

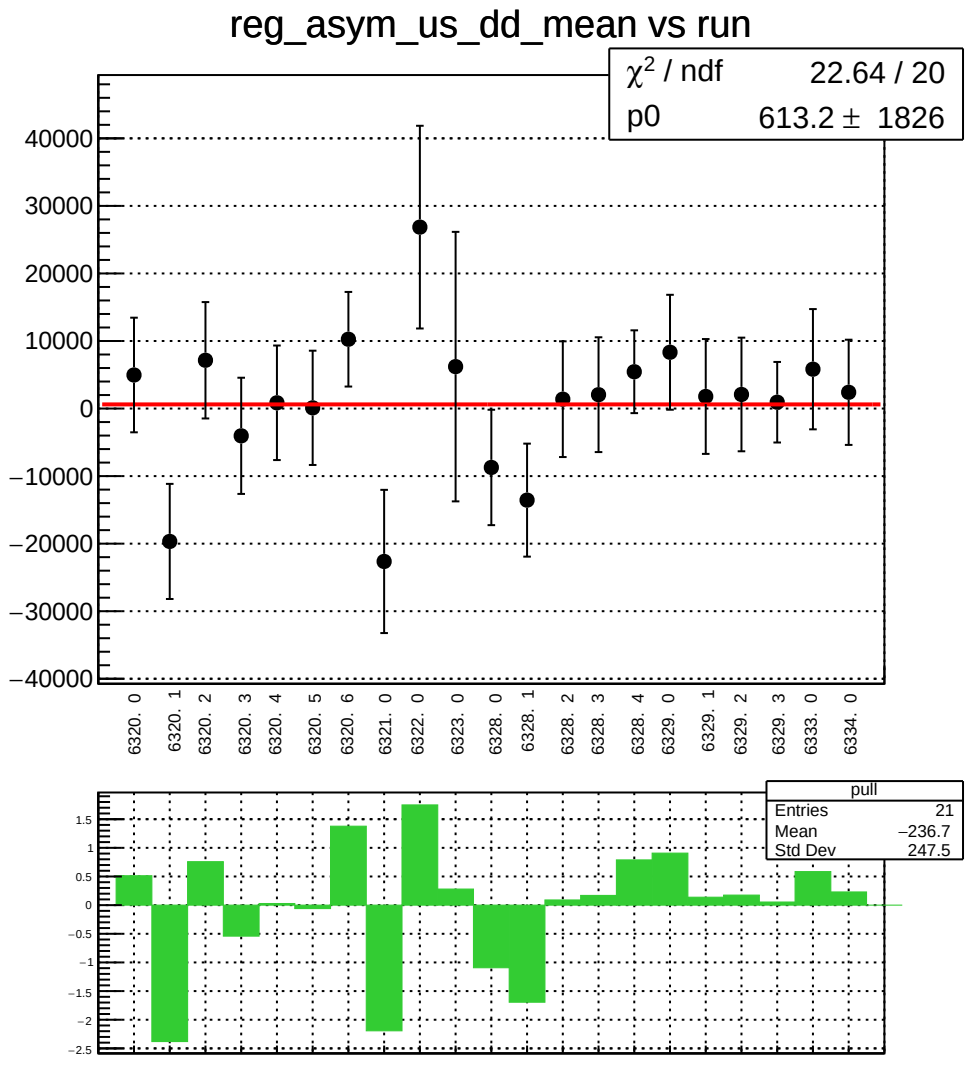

asym_us_avg_correction_rms vs run
χ² / ndf 4029 / 20
p0 1419 ± 2.292
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

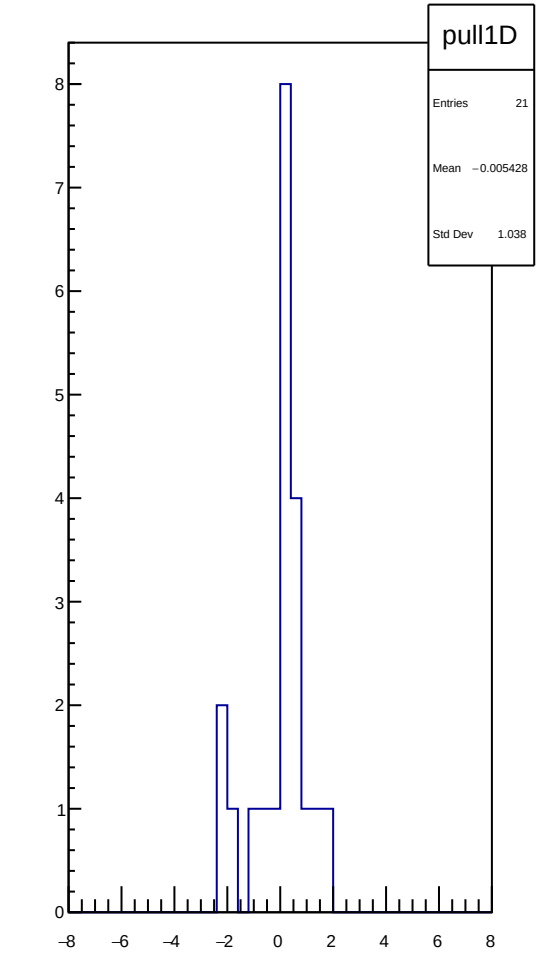

asym_us_avg_mean vs run
χ² / ndf 23.23 / 20
p0 2080 ± 3744
80000
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

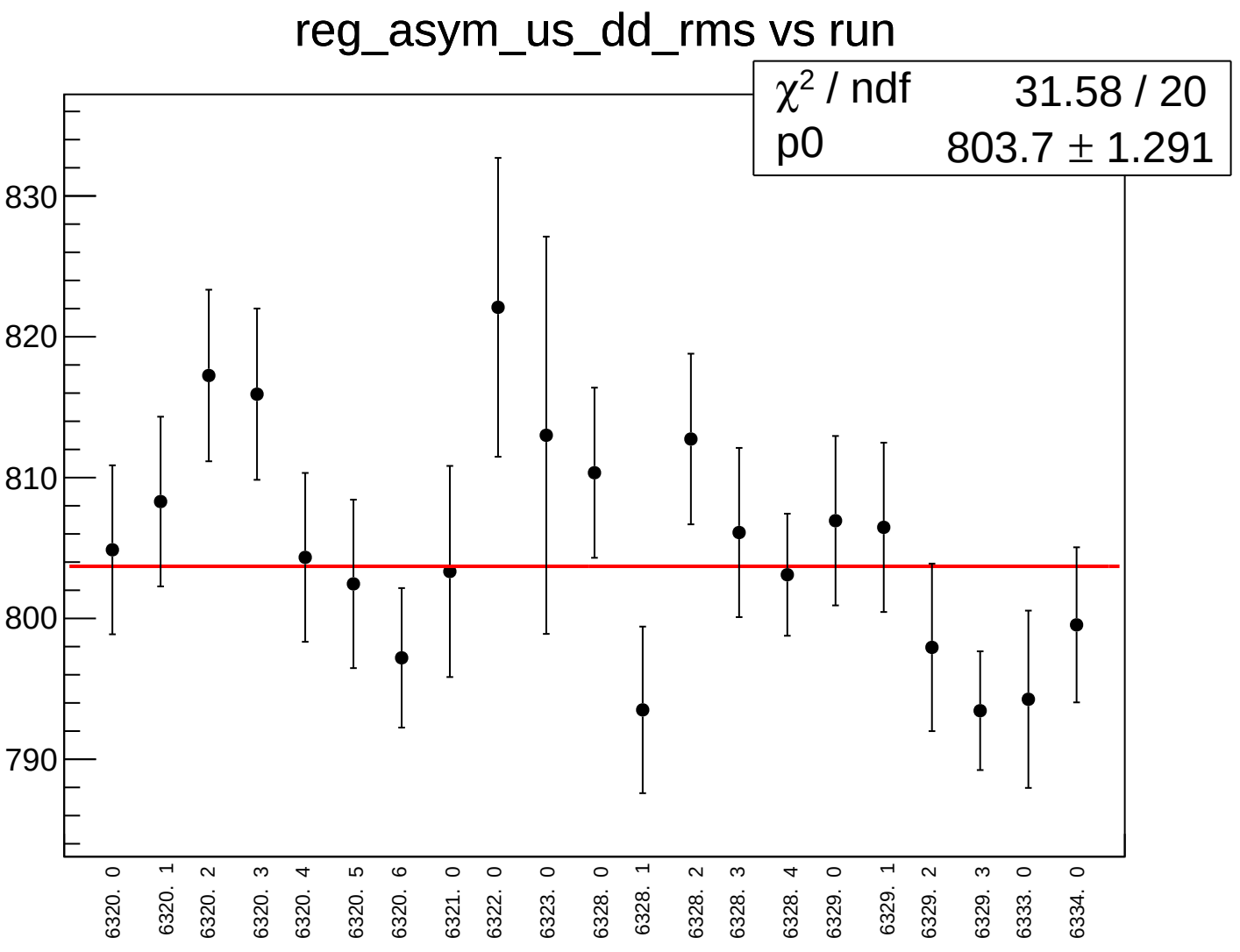

pull
Entries 21
Mean −34.07
Std Dev 55.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

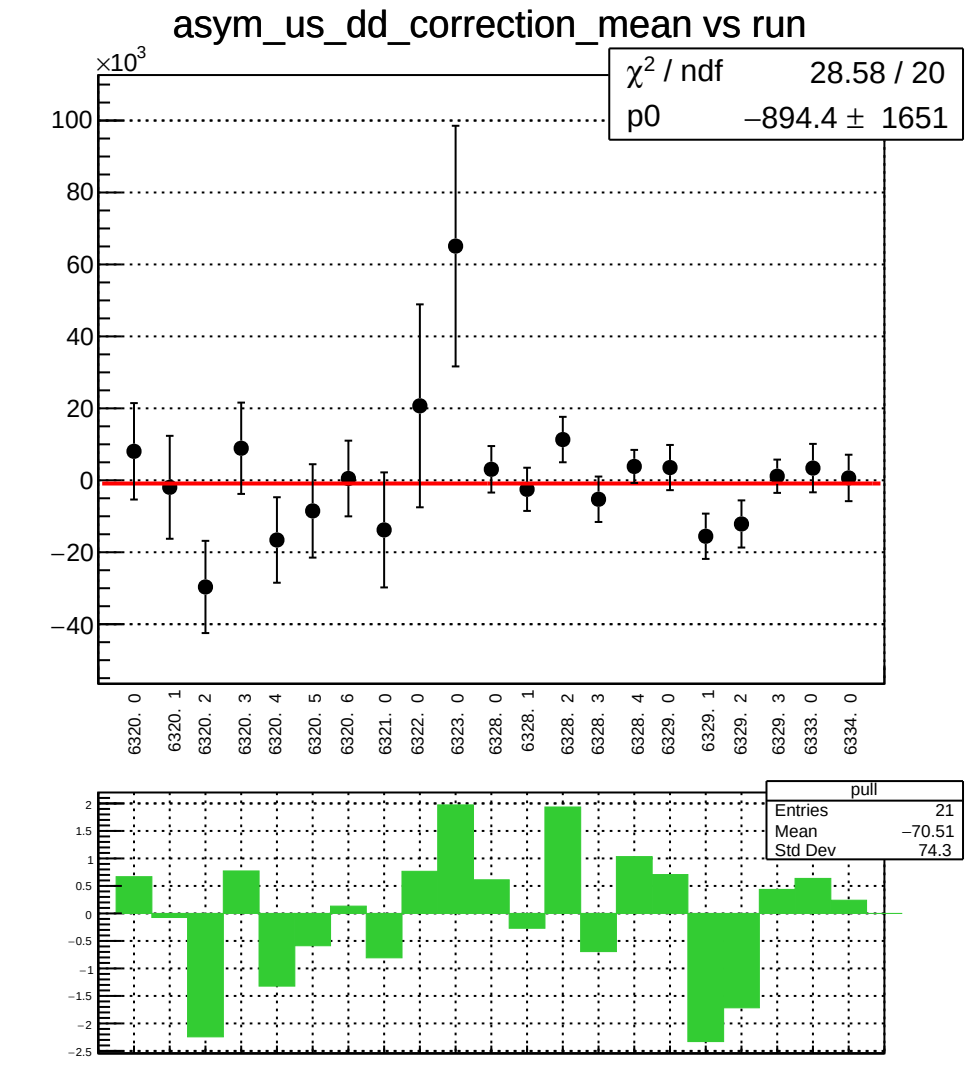

pull1D
Entries 21
Mean 0.009287
Std Dev 1.052
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

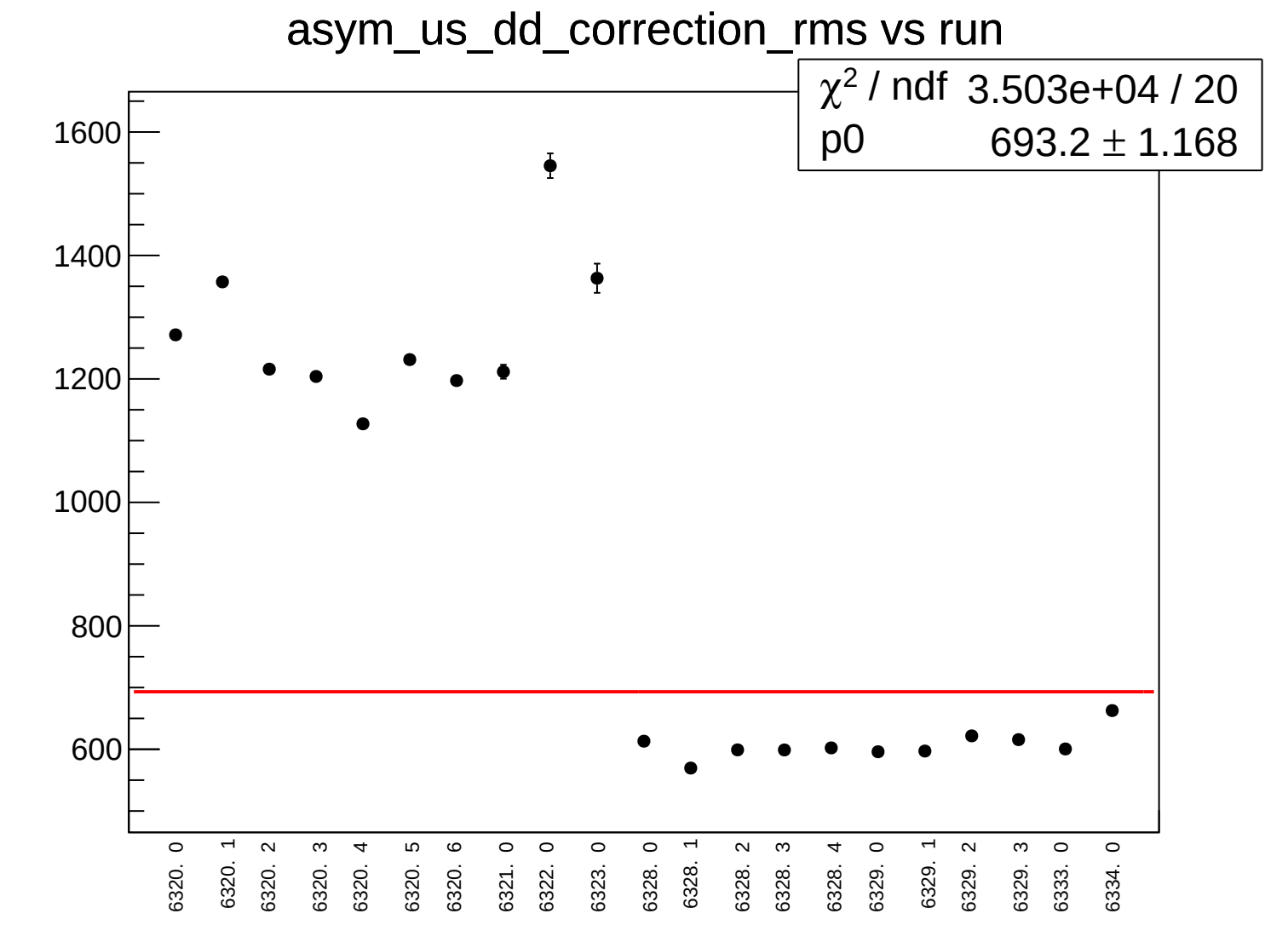

asym_us_avg_rms vs run
χ² / ndf 2246 / 20
p0 1643 ± 2.648
1850
1800
1750
1700
1650
1600
1550
1500
1450
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

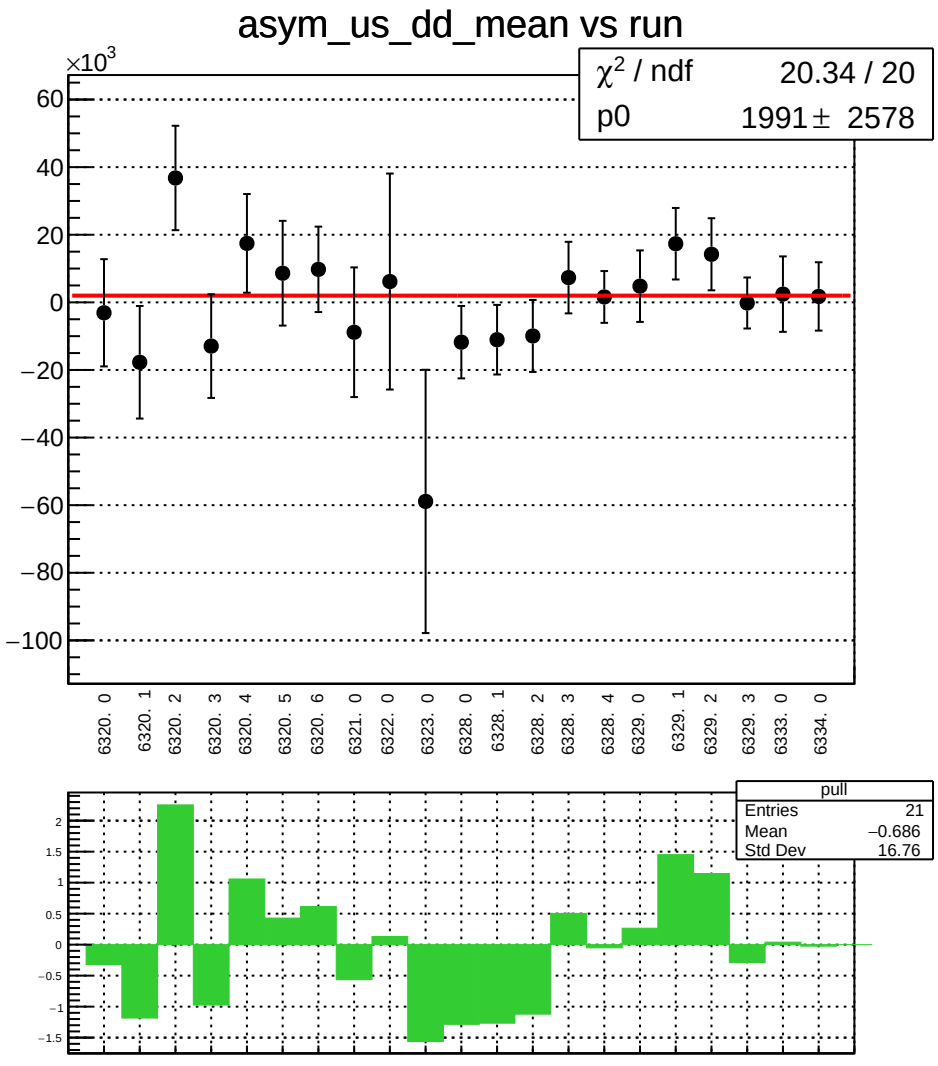

reg_asym_us_dd_mean vs run
χ² / ndf 22.64 / 20
p0 613.2 ± 1826
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −236.7
Std Dev 247.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

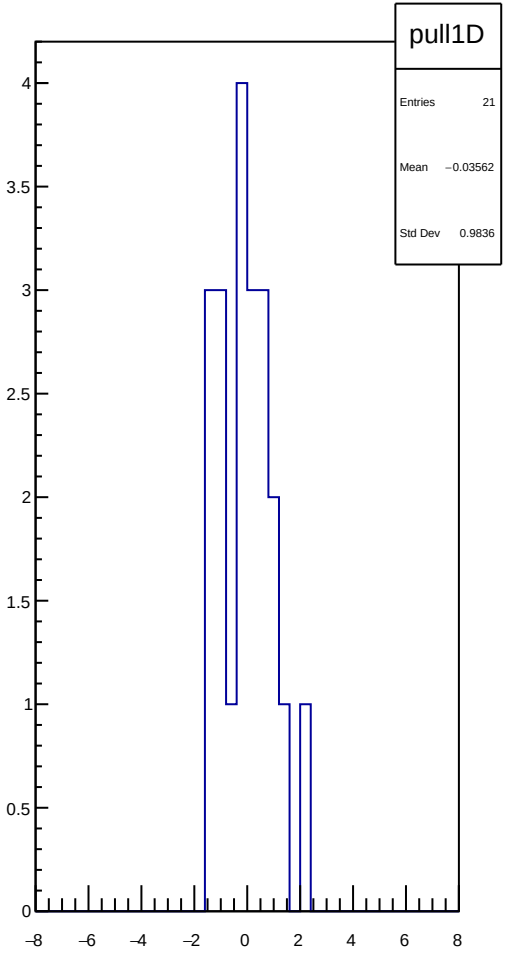

pull1D
Entries 21
Mean −0.005428
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

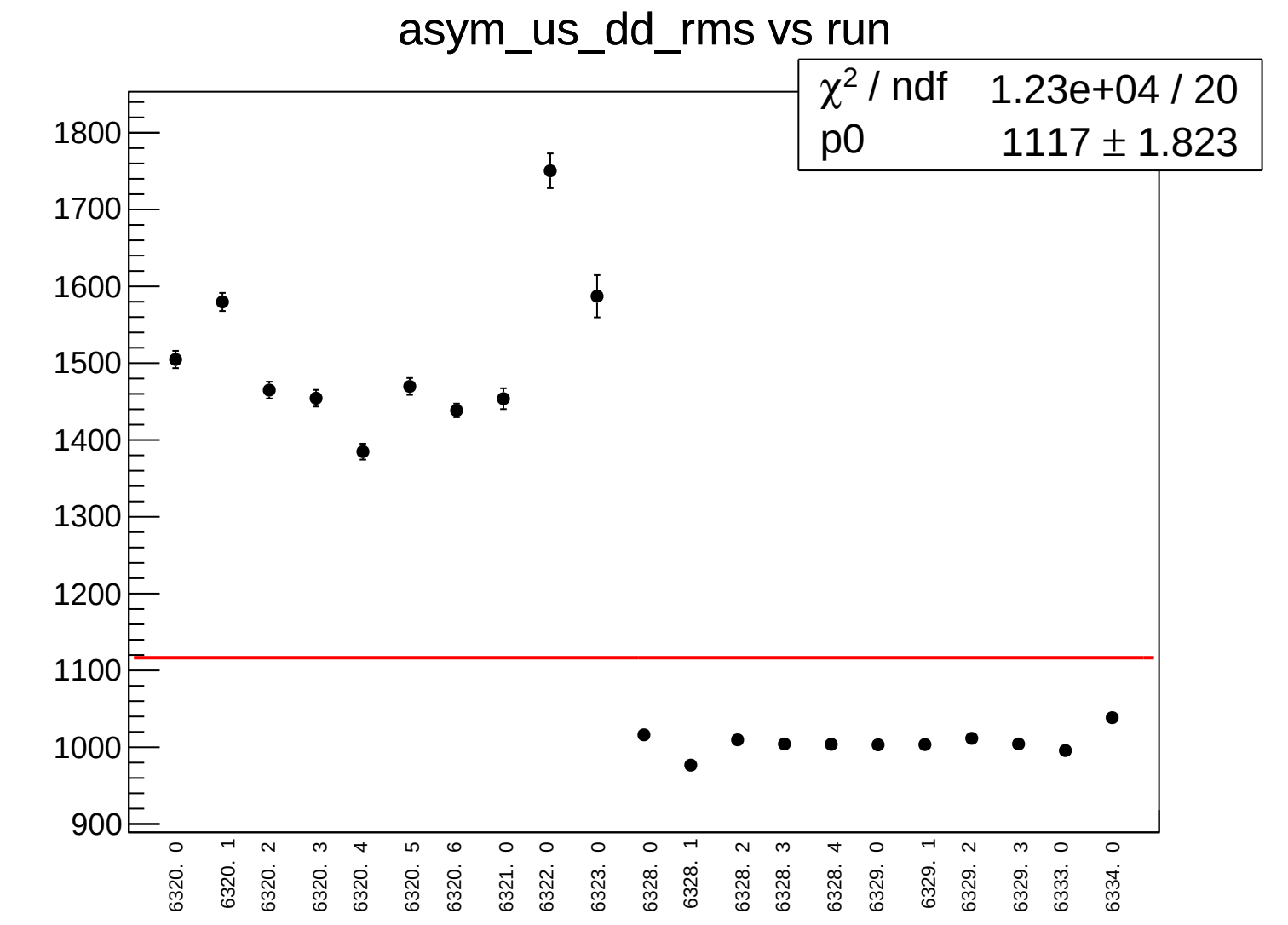

reg_asym_us_dd_rms vs run
χ^2 / ndf 31.58 / 20
p0 803.7 ± 1.291
830
820
810
800
790
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

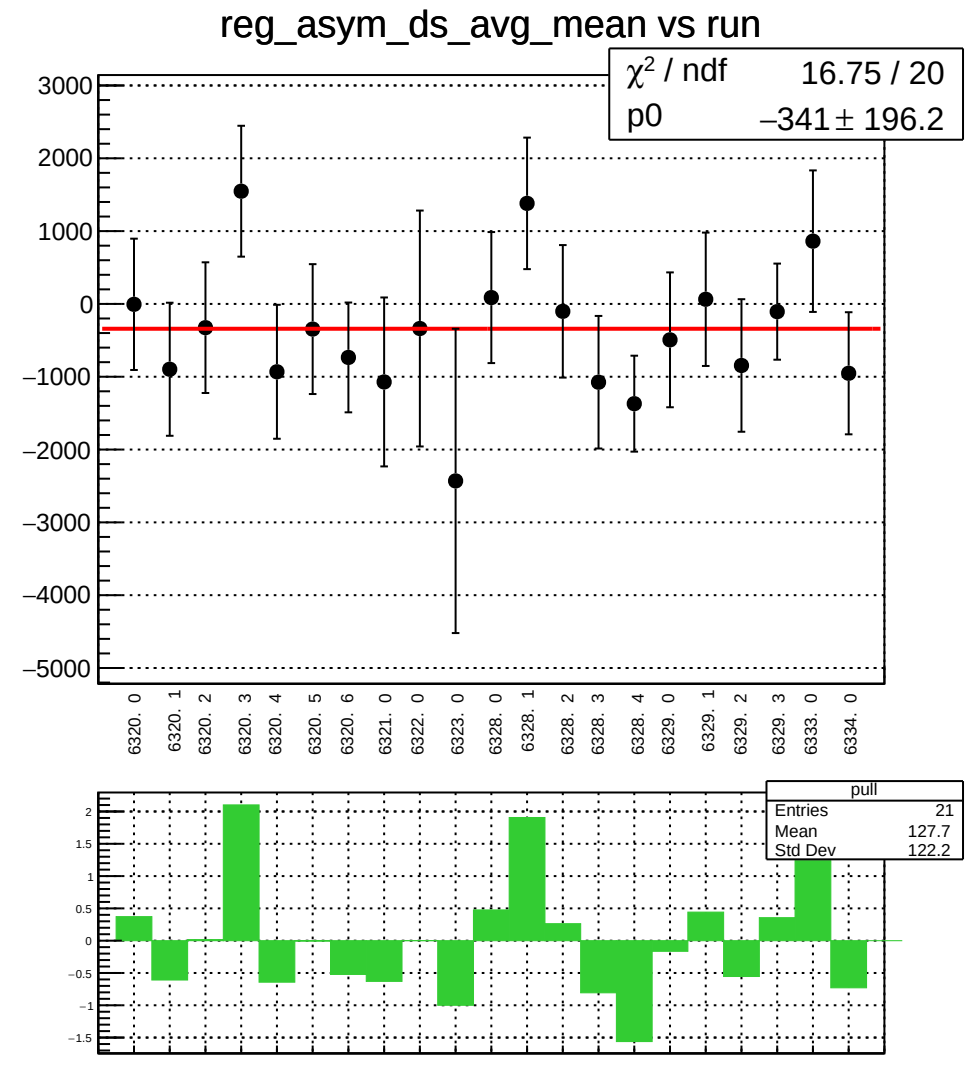

asym_us_dd_correction_mean vs run
×10^3
χ² / ndf 28.58 / 20
p0 −894.4 ± 1651
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −70.51
Std Dev 74.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.006226
Std Dev 1.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

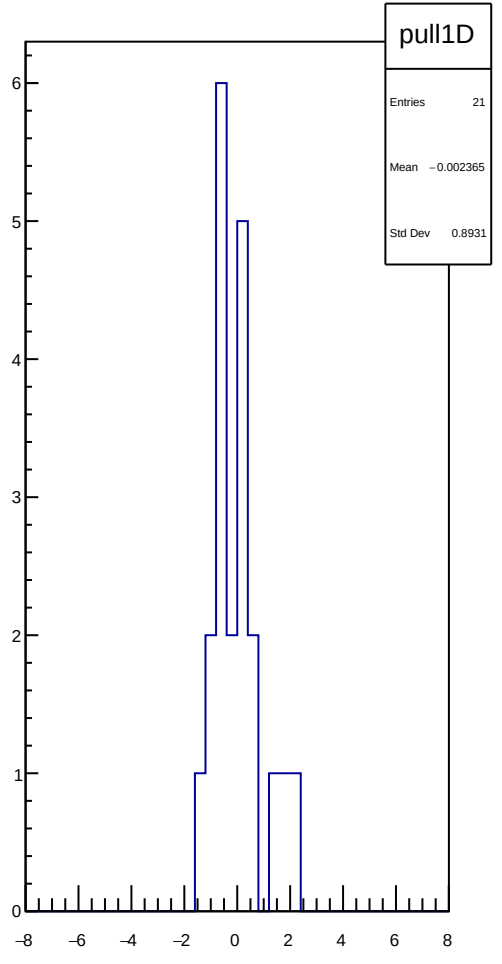

asym_us_dd_correction_rms vs run
χ² / ndf 3.503e+04 / 20
p0 693.2 ± 1.168
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

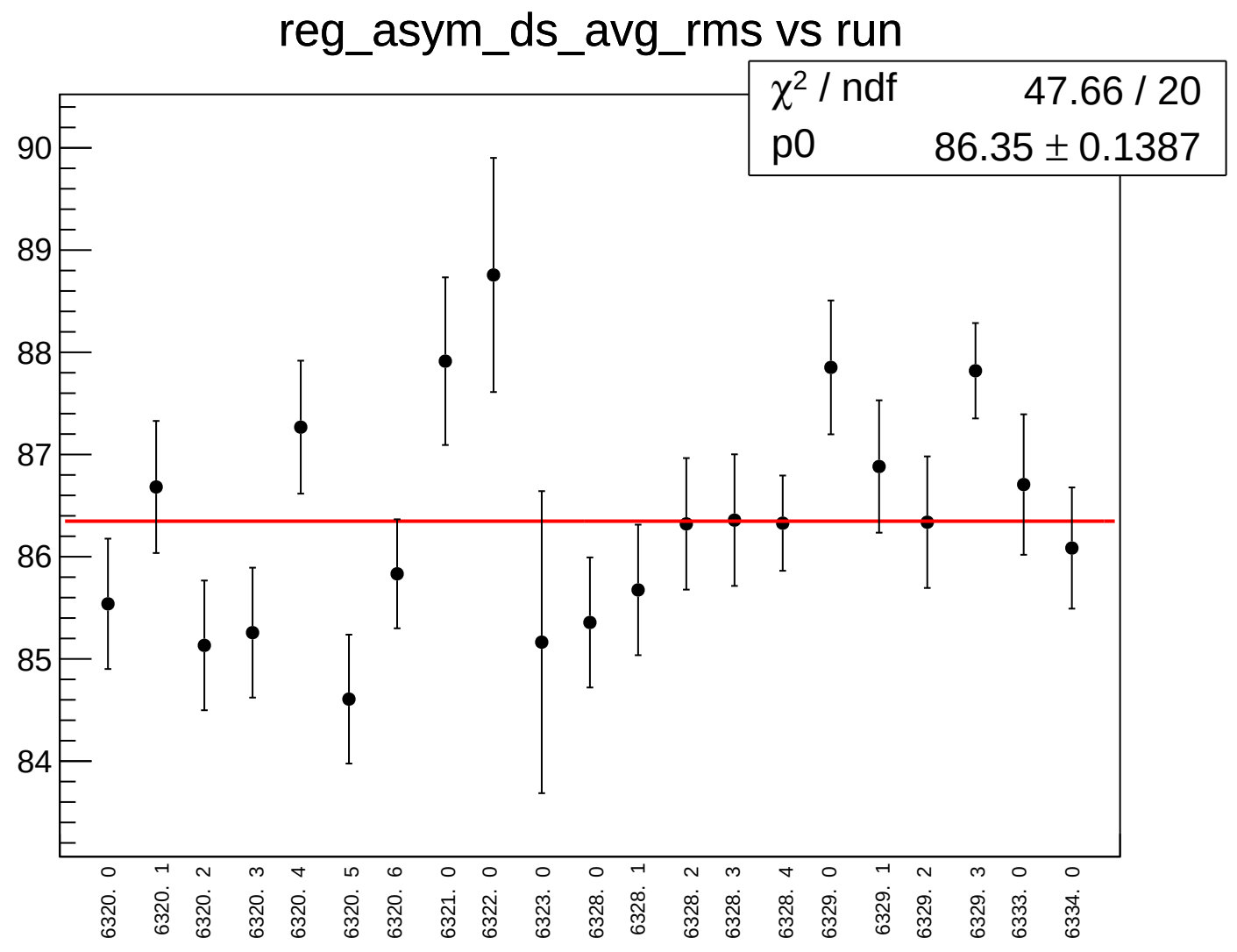

asym_us_dd_mean vs run
×10^3
χ^2 / ndf 20.34 / 20
p0 1991 ± 2578
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.686
Std Dev 16.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

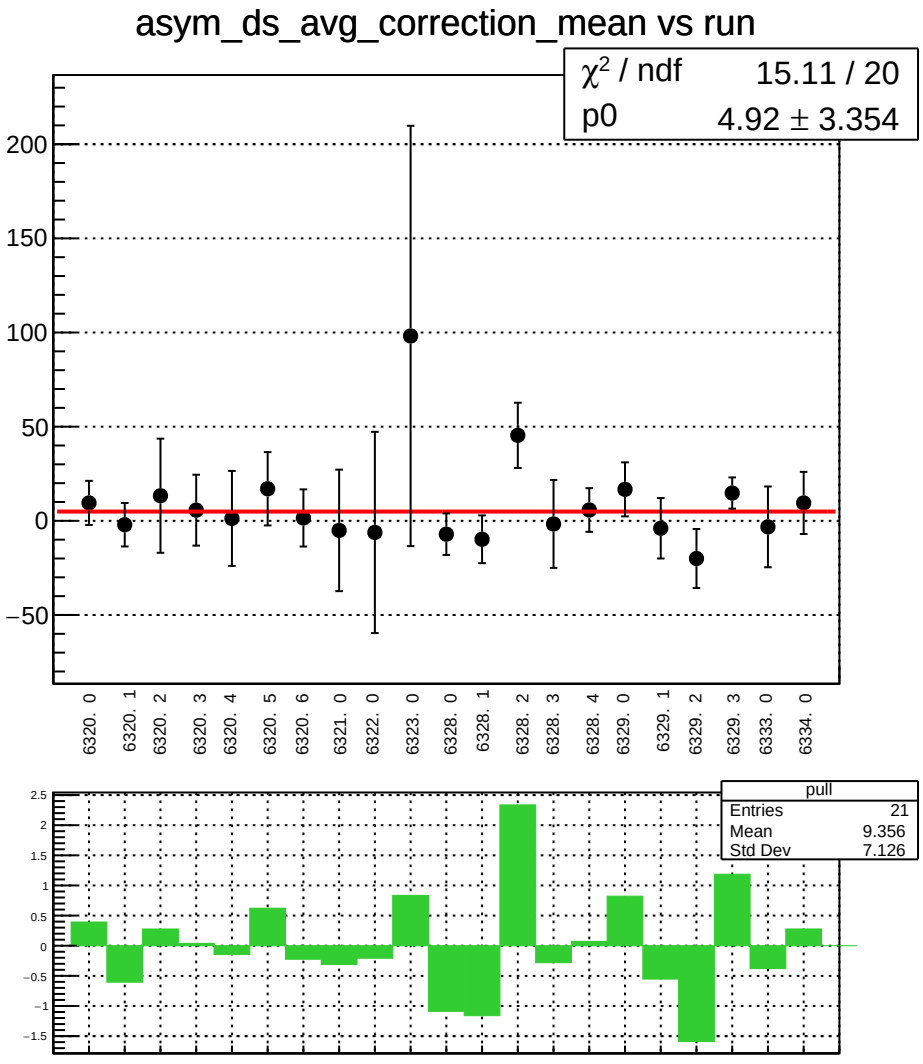

pull1D
Entries 21
Mean −0.03562
Std Dev 0.9836
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

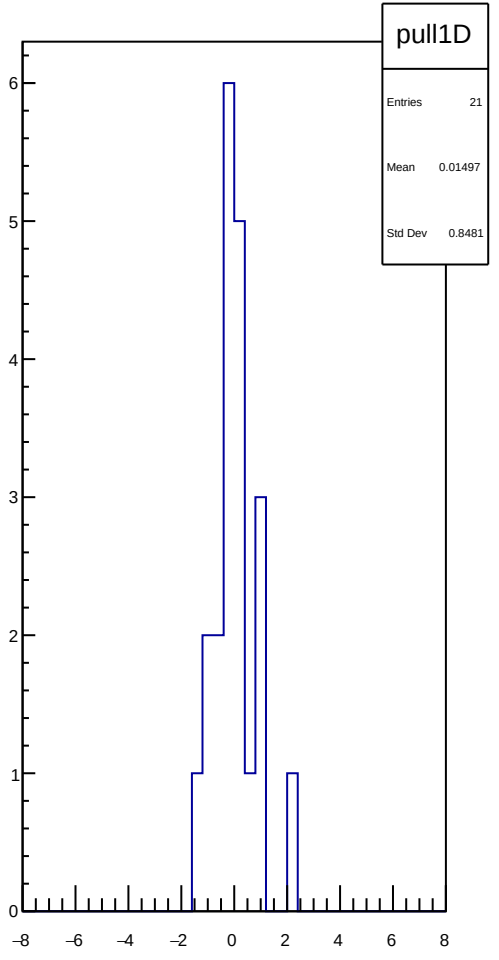

asym_us_dd_rms vs run
χ² / ndf 1.23e+04 / 20
p0 1117 ± 1.823
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

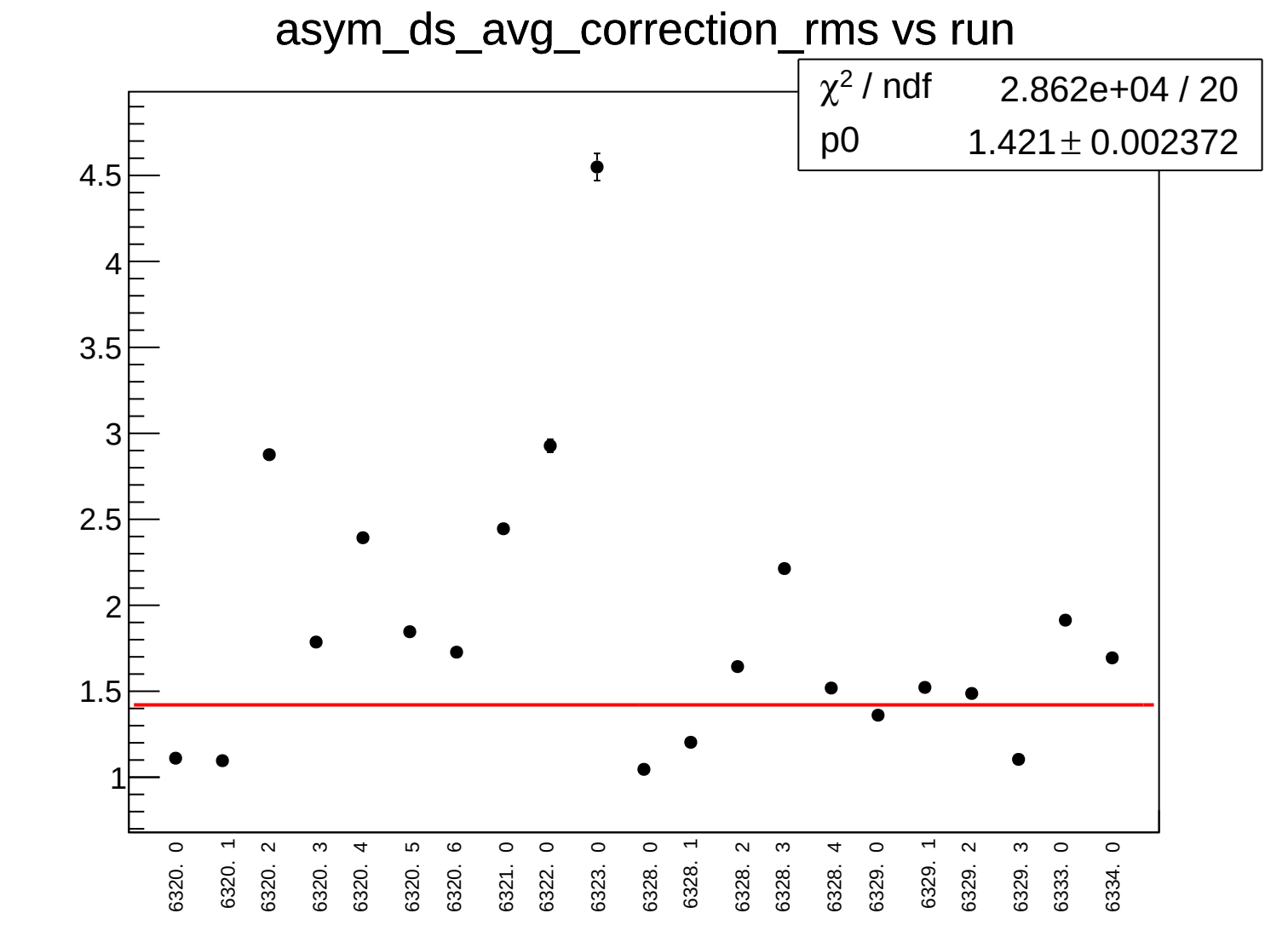

reg_asym_ds_avg_mean vs run
χ² / ndf 16.75 / 20
p0 −341 ± 196.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 127.7
Std Dev 122.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

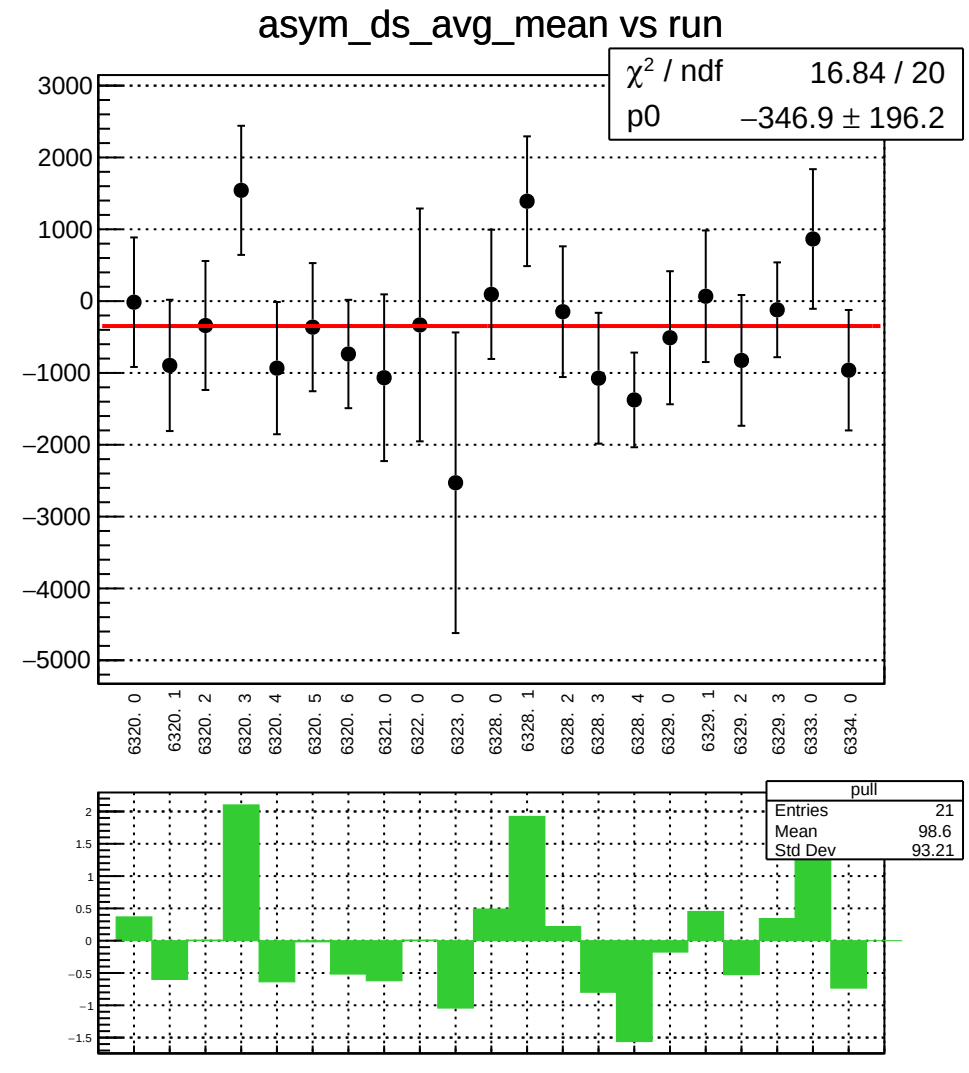

pull1D
Entries 21
Mean −0.002365
Std Dev 0.8931
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

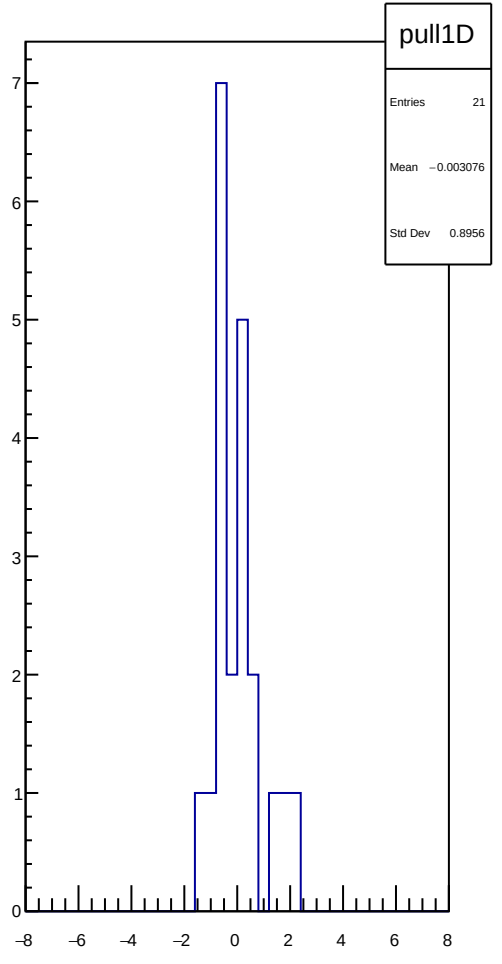

reg_asym_ds_avg_rms vs run
χ² / ndf 47.66 / 20
p0 86.35 ± 0.1387
90
89
88
87
86
85
84
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

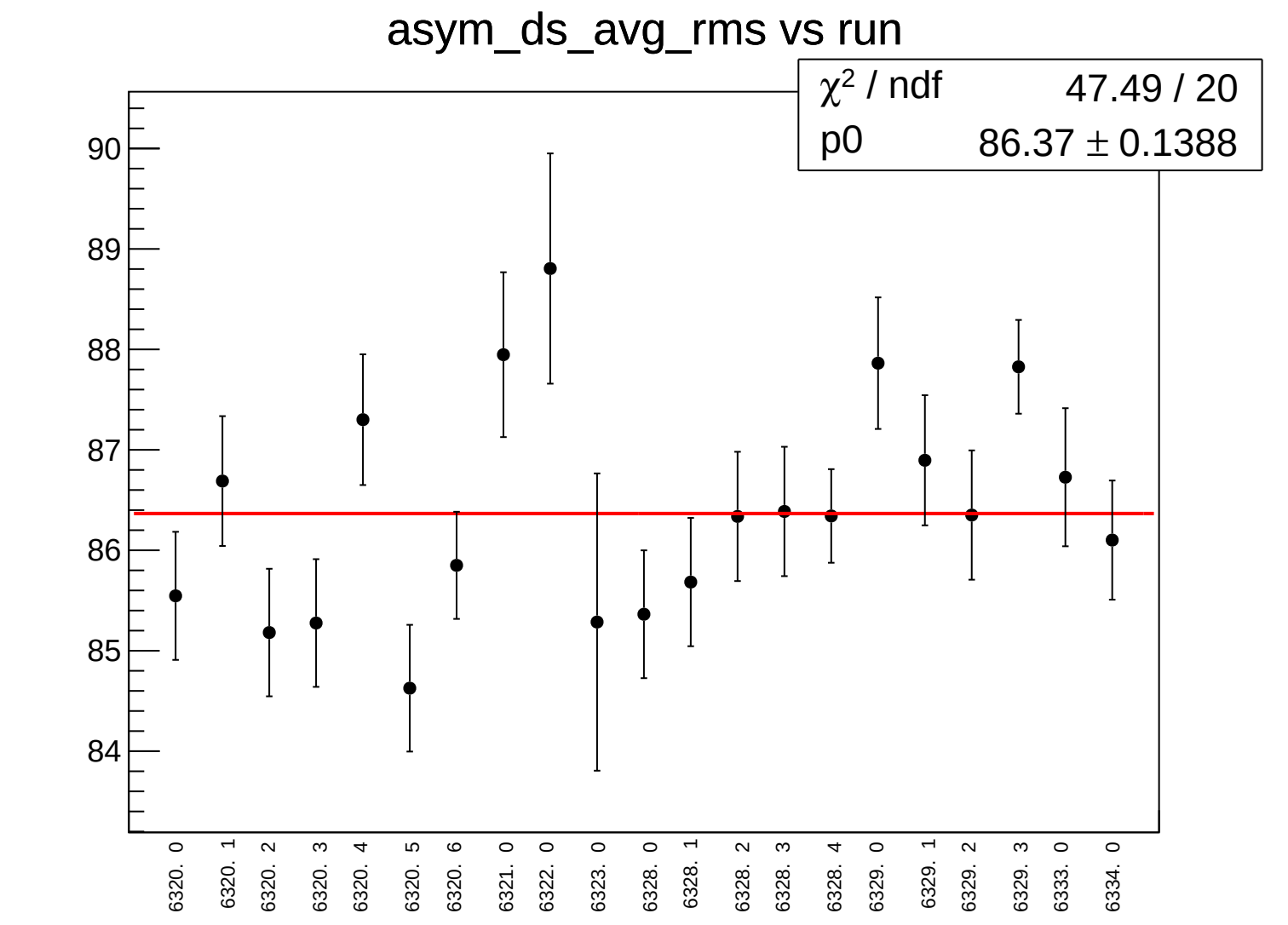

asym_ds_avg_correction_mean vs run
χ² / ndf 15.11 / 20
p0 4.92 ± 3.354
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.356
Std Dev 7.126
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

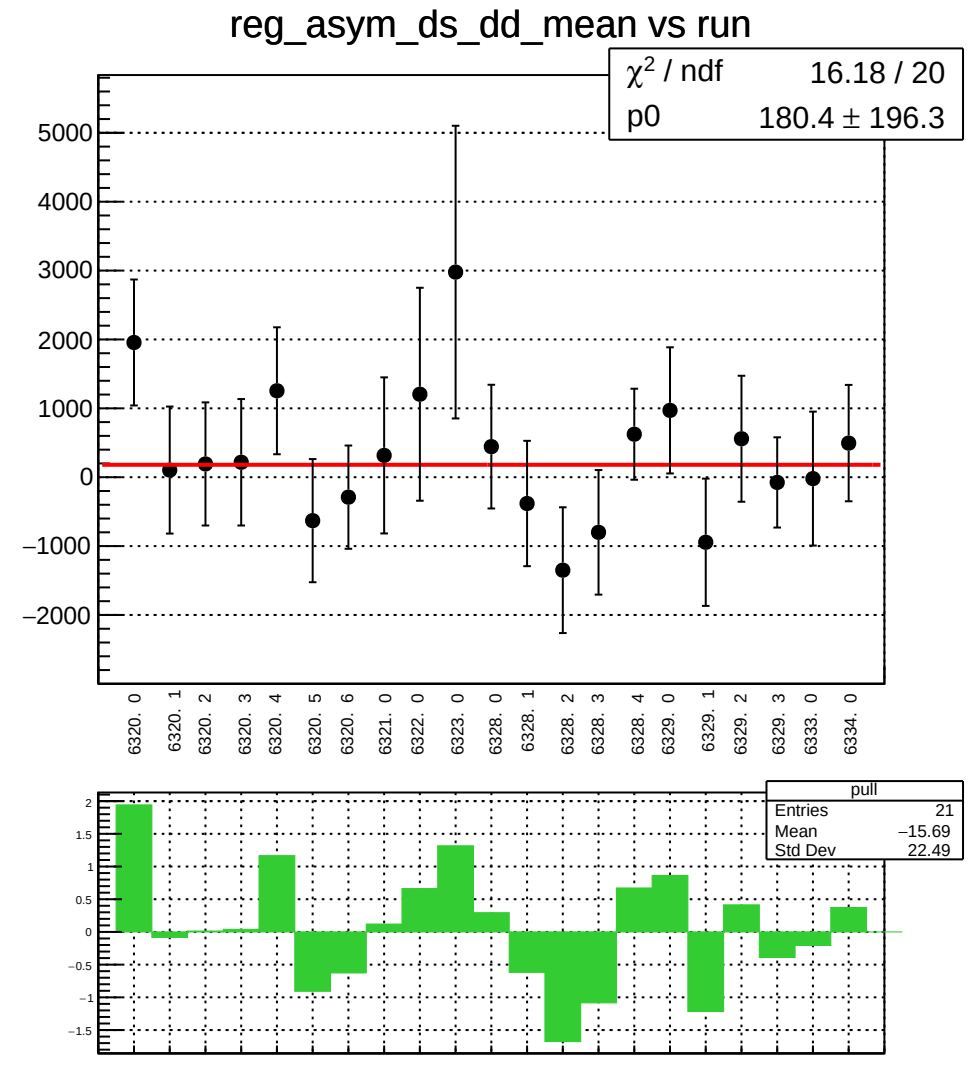

pull1D
Entries 21
Mean 0.01497
Std Dev 0.8481
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

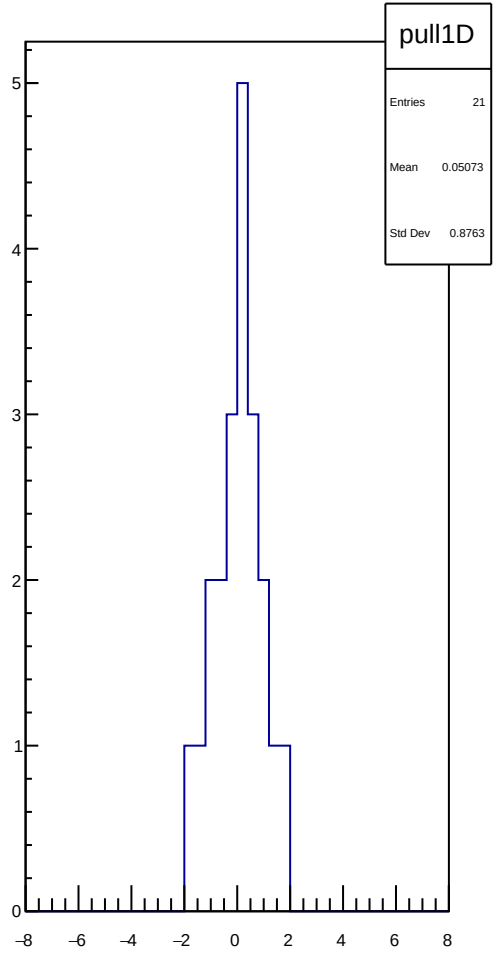

asym_ds_avg_correction_rms vs run
χ² / ndf 2.862e+04 / 20
p0 1.421 ± 0.002372
4.5
4
3.5
3
2.5
2
1.5
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

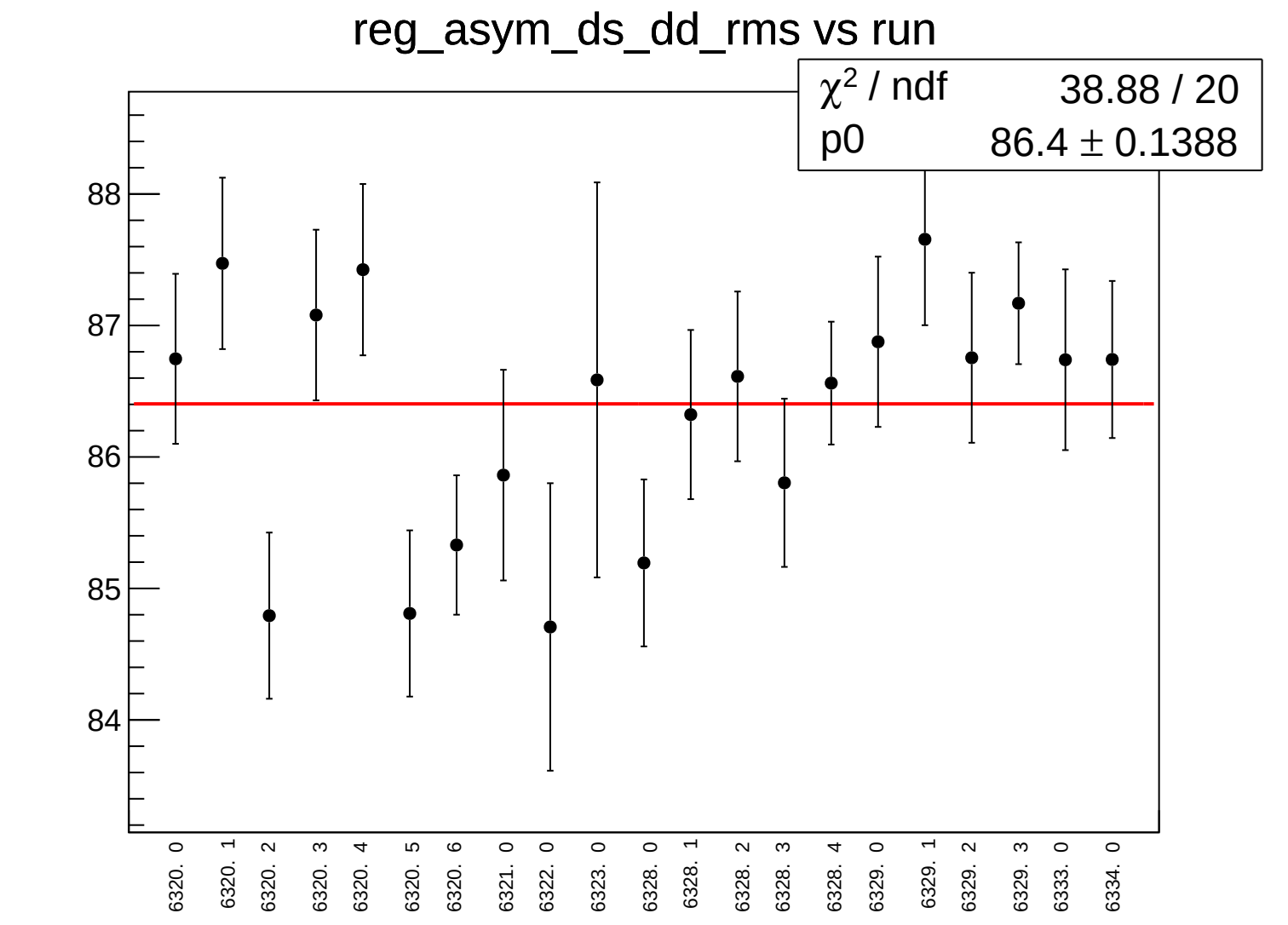

asym_ds_avg_mean vs run
χ² / ndf 16.84 / 20
p0 −346.9 ± 196.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 98.6
Std Dev 93.21
2
1.5
1
0.5
0
−0.5
−1
−1.5

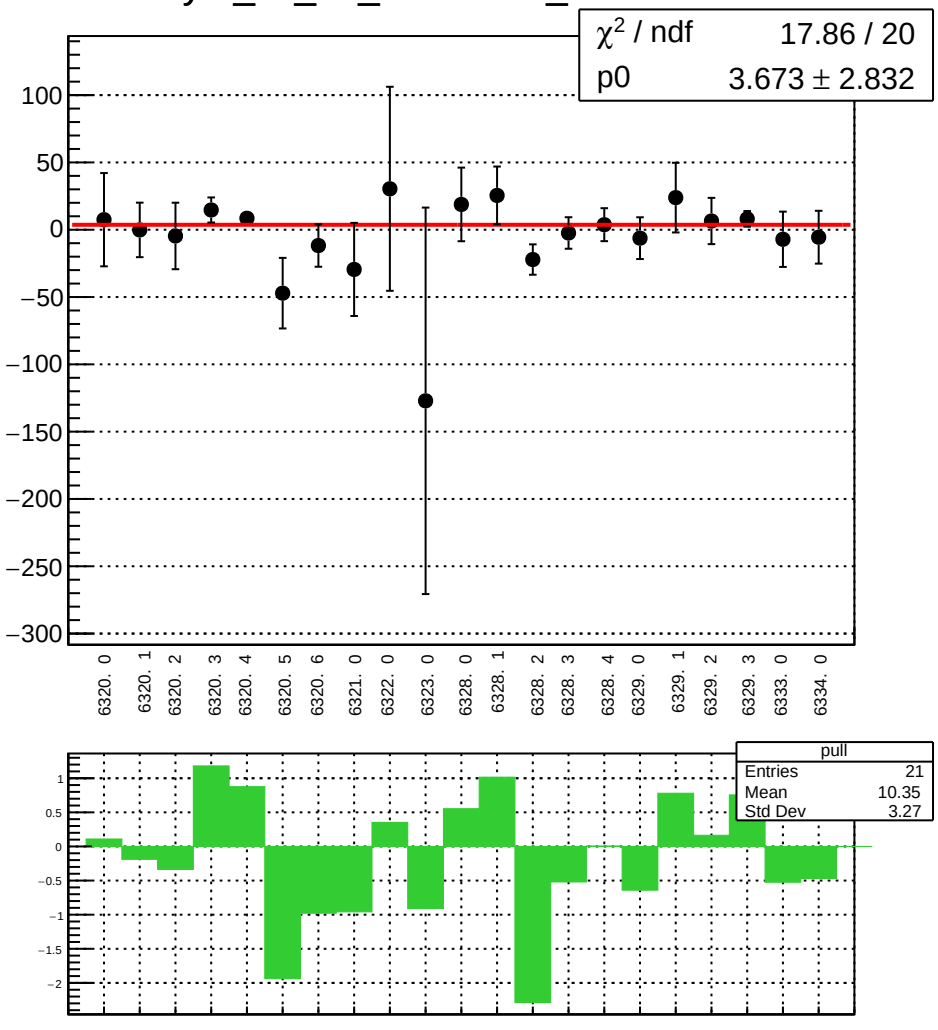

pull1D
Entries 21
Mean −0.003076
Std Dev 0.8956
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

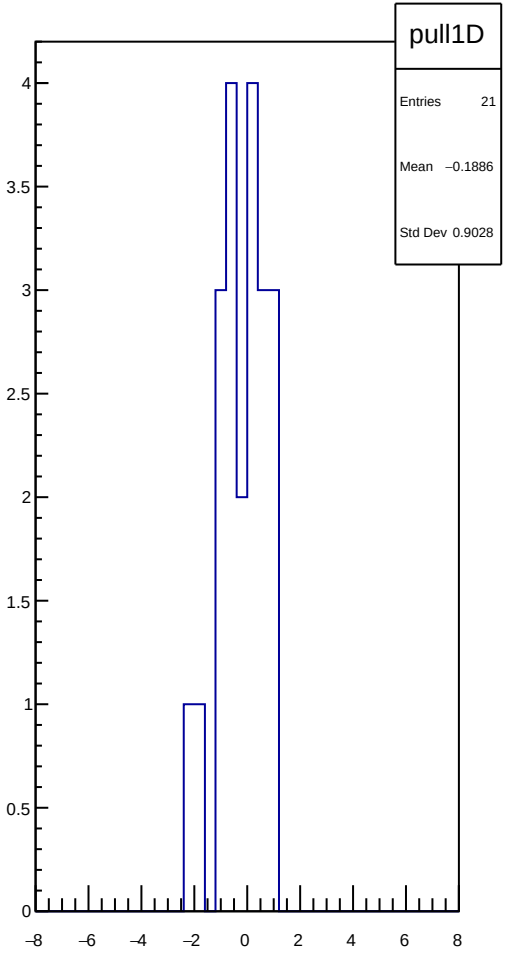

asym_ds_avg_rms vs run
χ² / ndf 47.49 / 20
p0 86.37 ± 0.1388
90
89
88
87
86
85
84
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

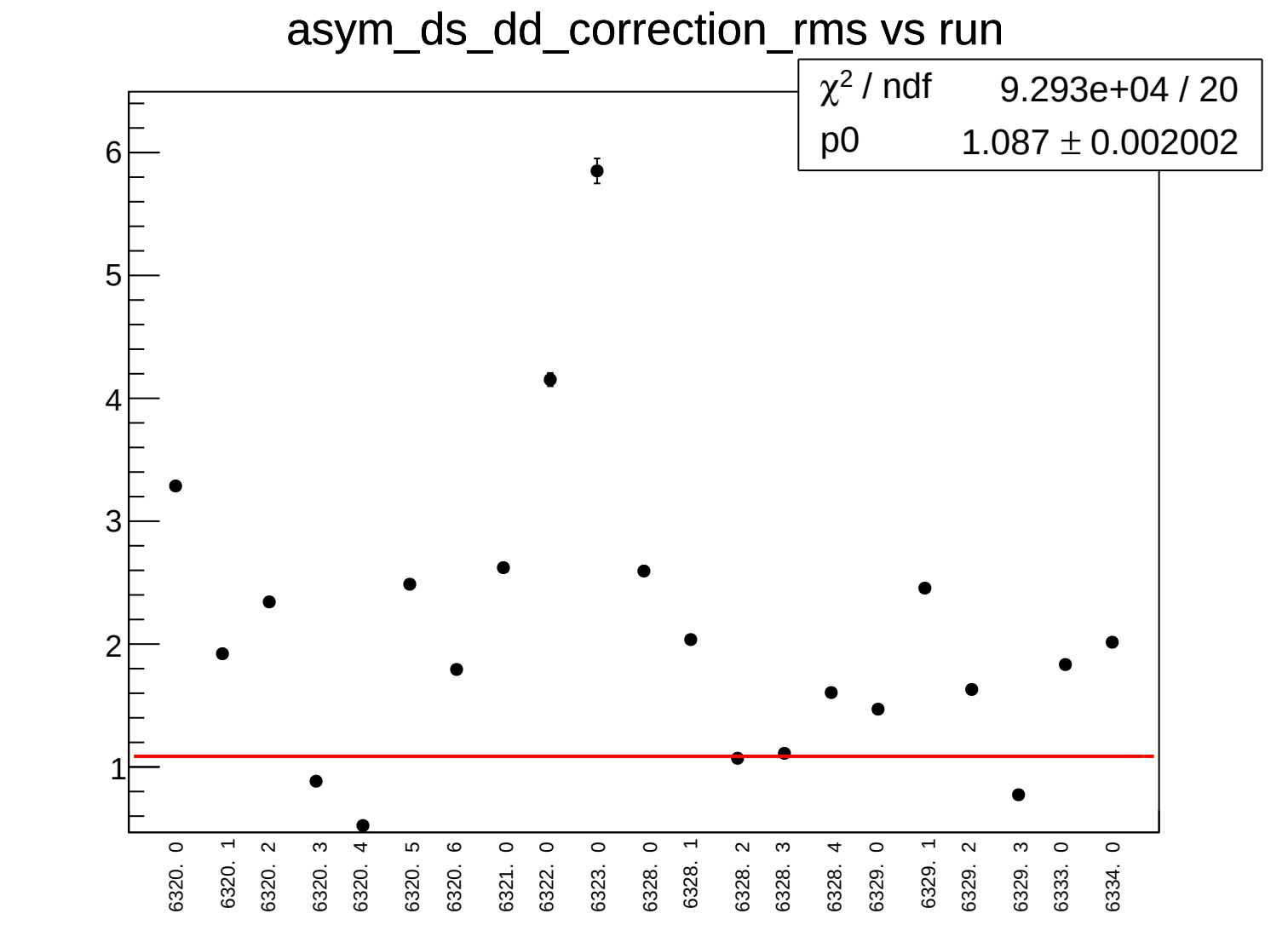

reg_asym_ds_dd_mean vs run
χ² / ndf 16.18 / 20
p0 180.4 ± 196.3
5000
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.69
Std Dev 22.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

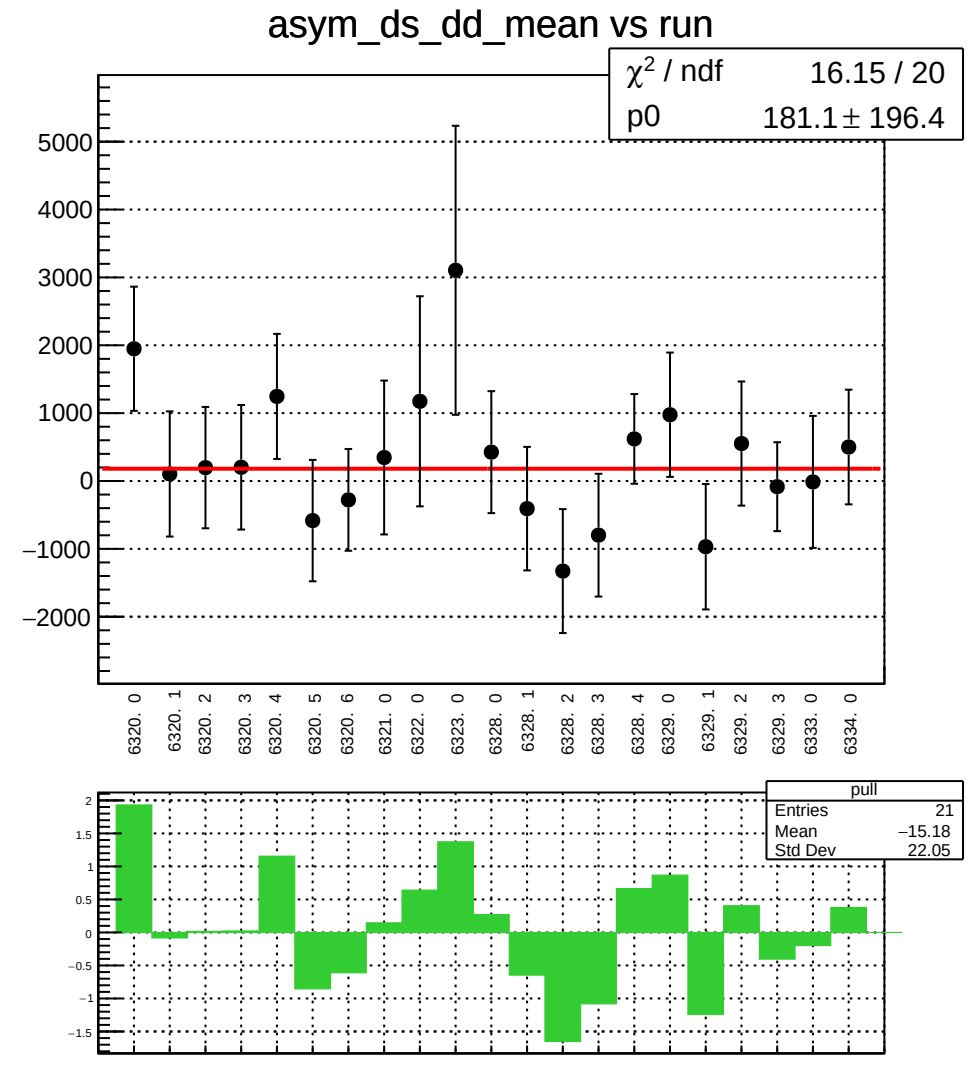

pull1D
Entries 21
Mean 0.05073
Std Dev 0.8763
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

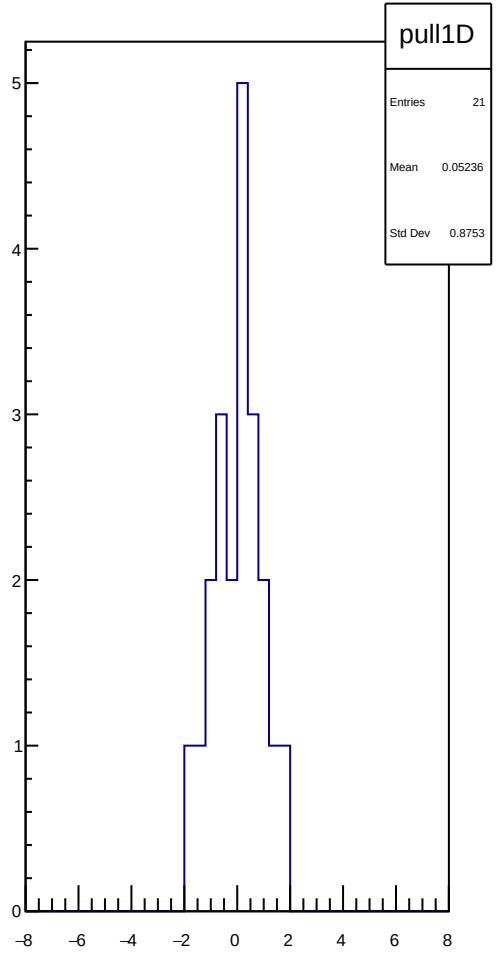

reg_asym_ds_dd_rms vs run
χ² / ndf 38.88 / 20
p0 86.4 ± 0.1388
88
87
86
85
84
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

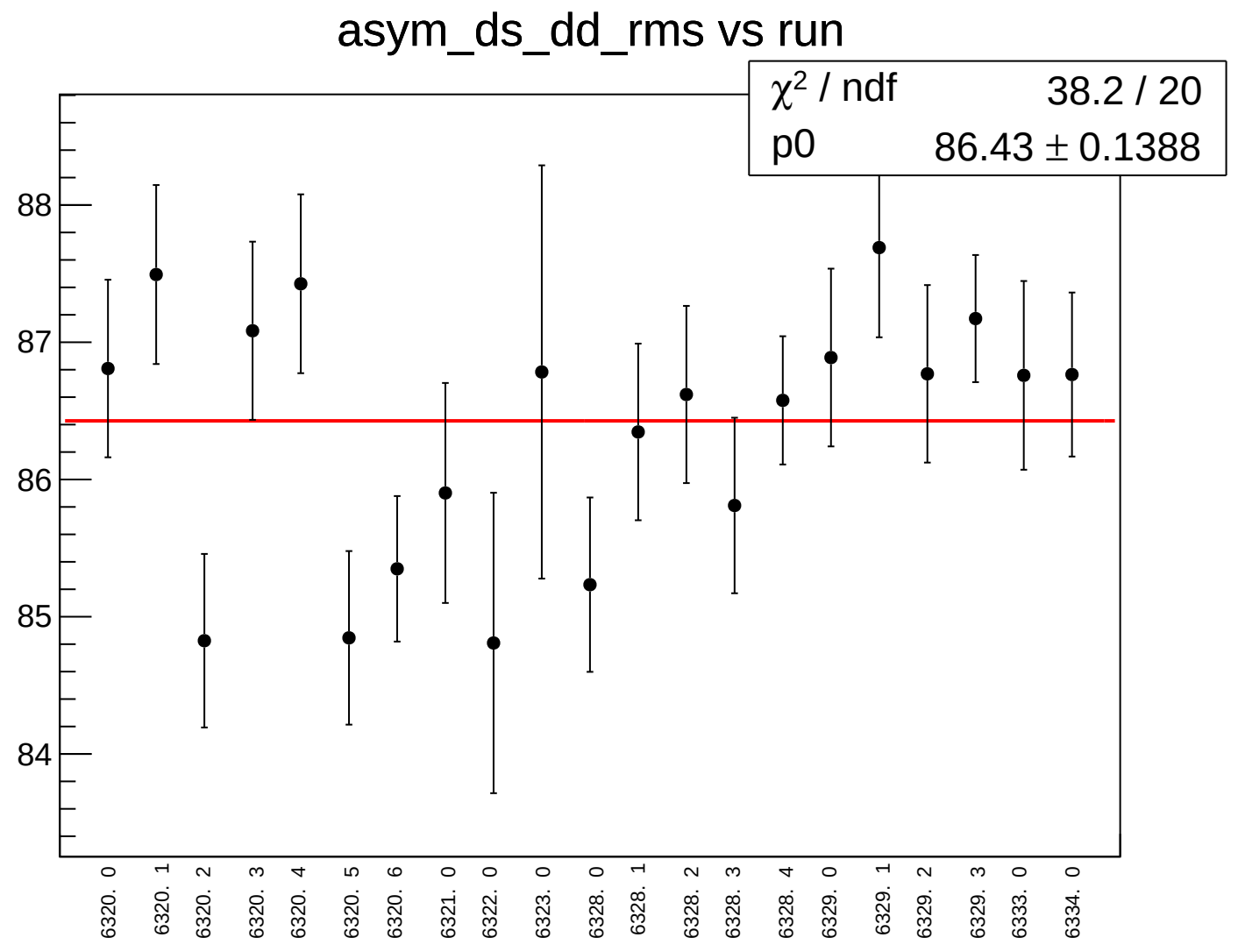

asym_ds_dd_correction_mean vs run
χ² / ndf 17.86 / 20
p0 3.673 ± 2.832
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.35
Std Dev 3.27
1
0.5
0
−0.5
−1
−1.5
−2

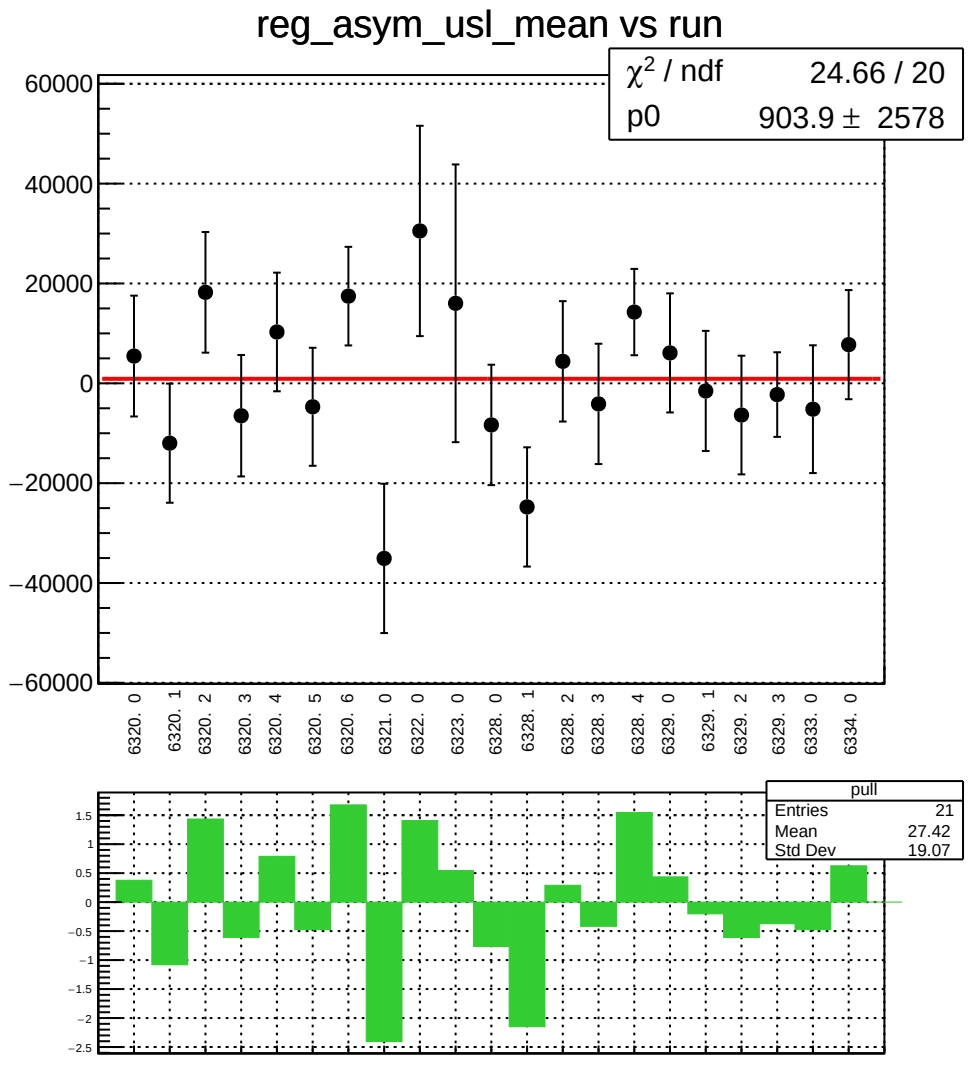

pull1D
Entries 21
Mean −0.1886
Std Dev 0.9028
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

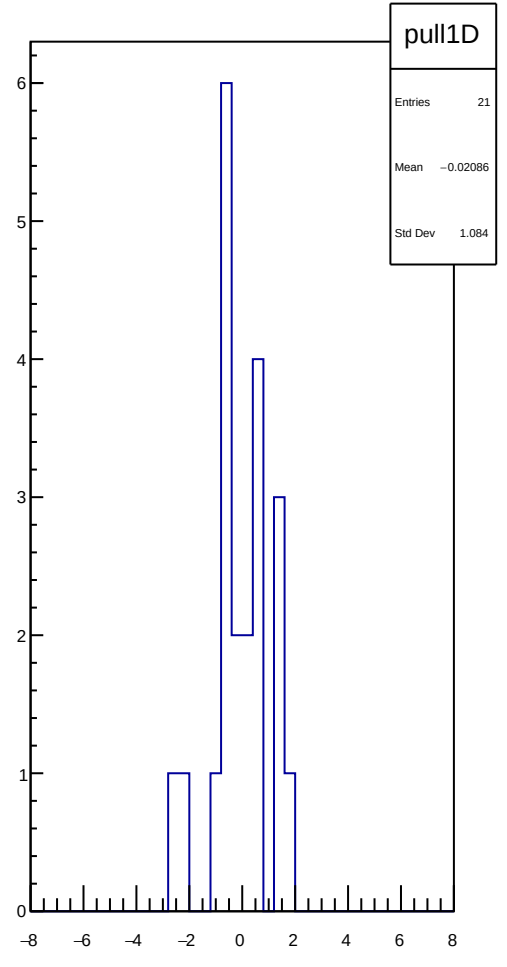

asym_ds_dd_correction_rms vs run
χ² / ndf 9.293e+04 / 20
p0 1.087 ± 0.002002
6
5
4
3
2
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

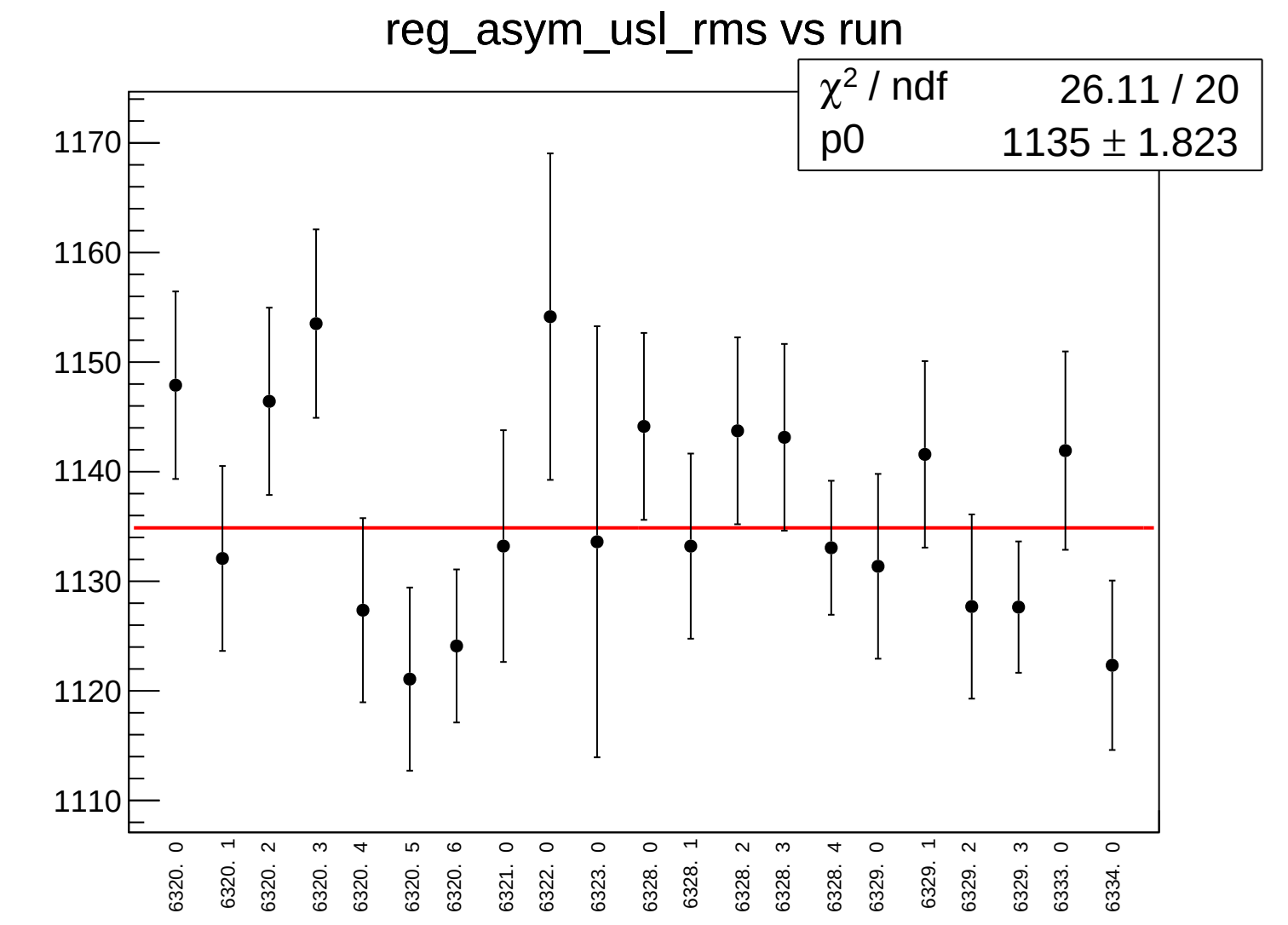

asym_ds_dd_mean vs run
χ² / ndf 16.15 / 20
p0 181.1 ± 196.4
5000
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.18
Std Dev 22.05
2
1.5
1
0.5
0
−0.5
−1
−1.5

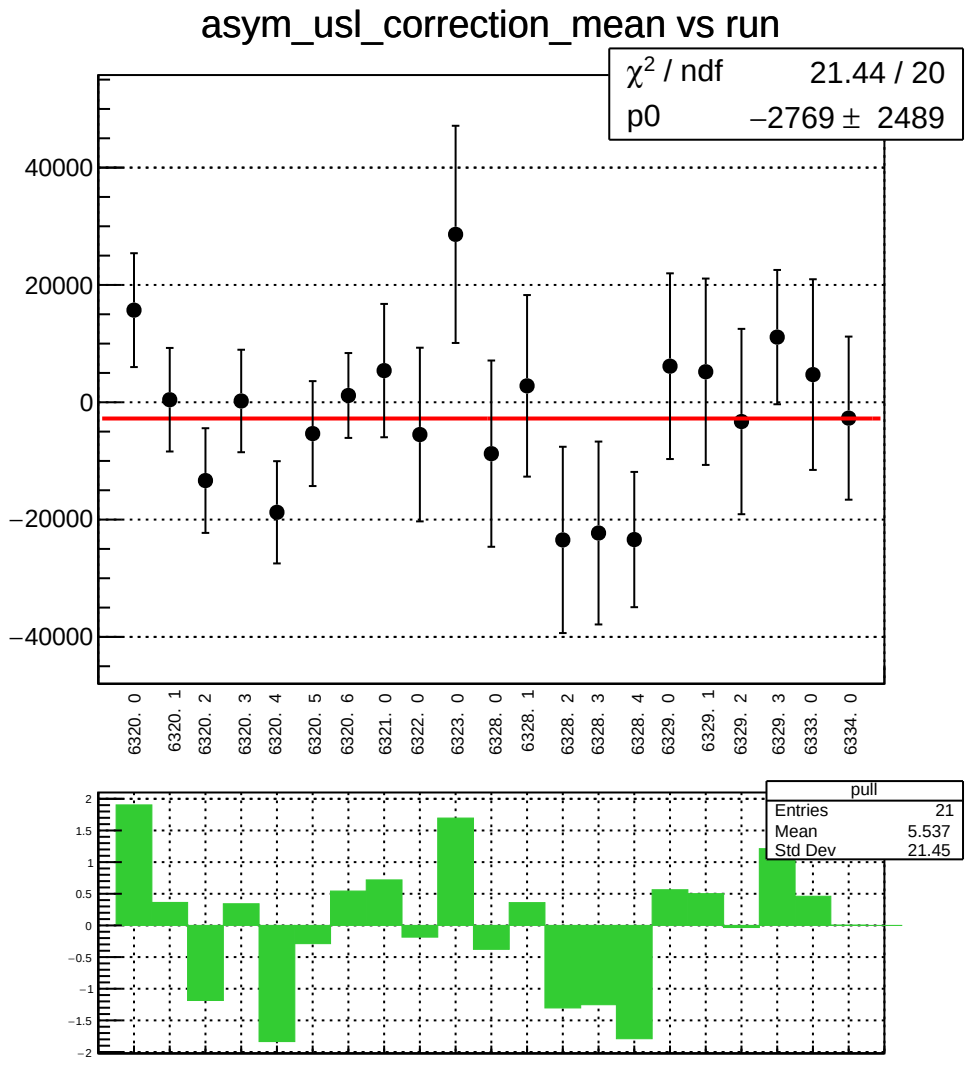

pull1D
Entries 21
Mean 0.05236
Std Dev 0.8753
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

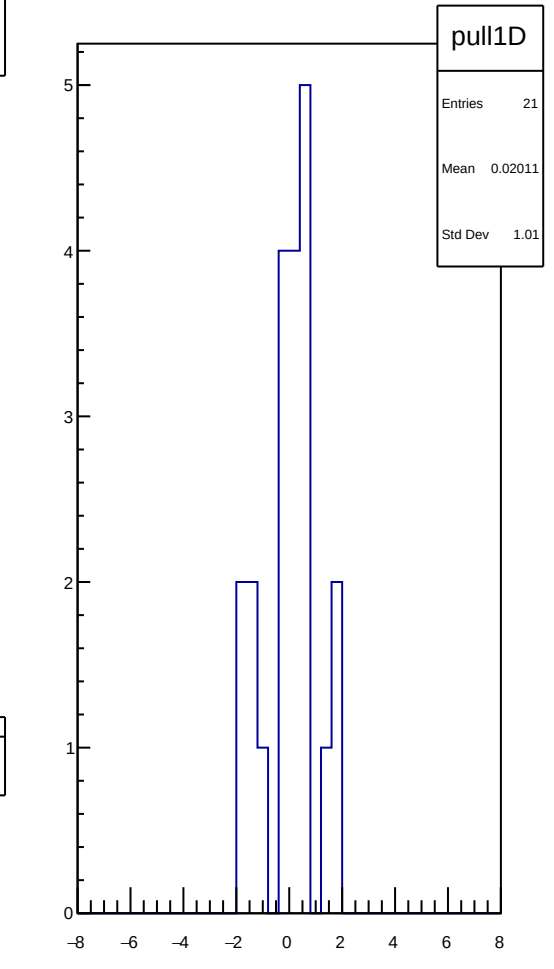

asym_ds_dd_rms vs run
χ² / ndf 38.2 / 20
p0 86.43 ± 0.1388
88
87
86
85
84
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

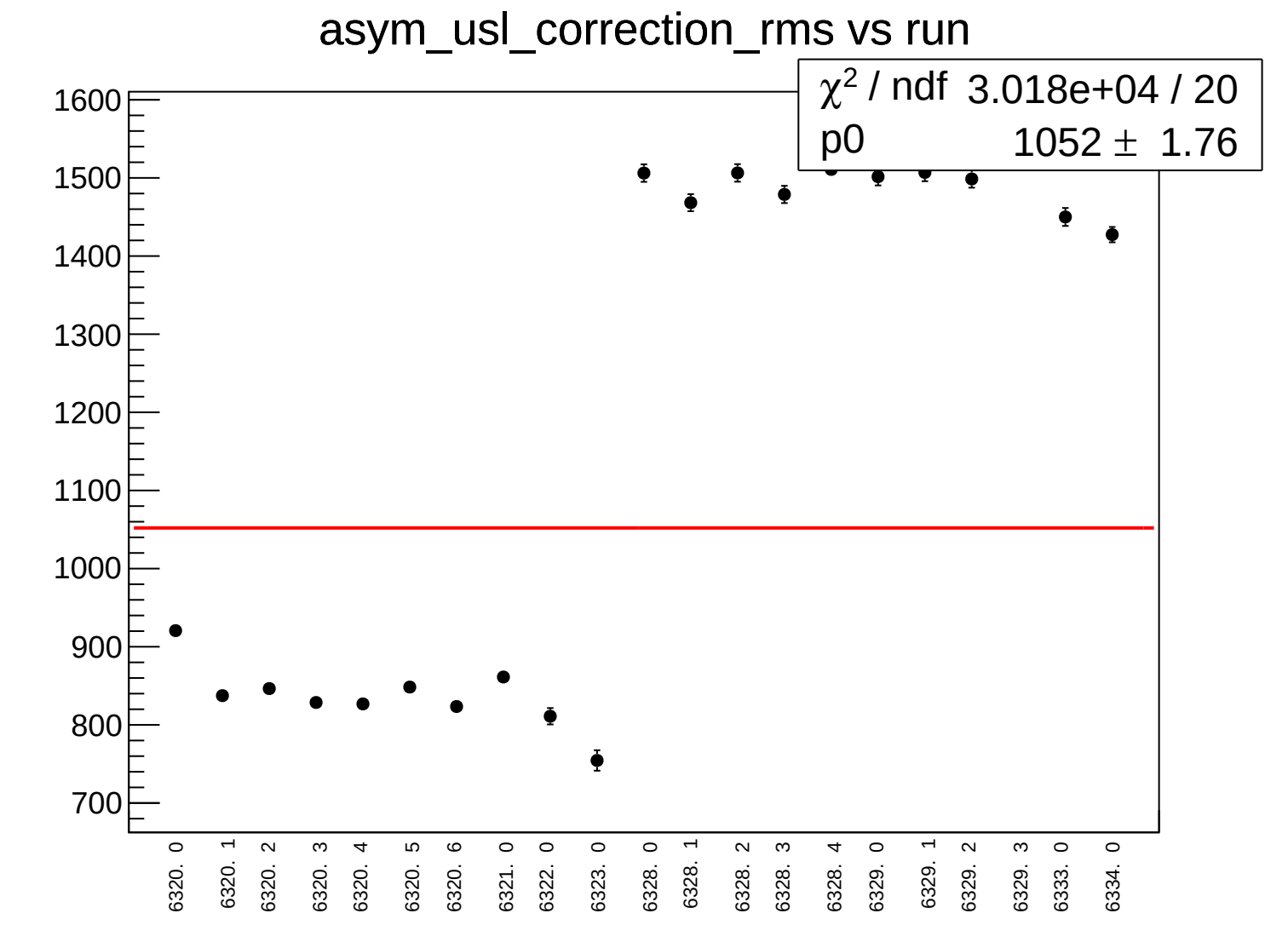

reg_asym_usl_mean vs run
χ² / ndf 24.66 / 20
p0 903.9 ± 2578
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.42
Std Dev 19.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

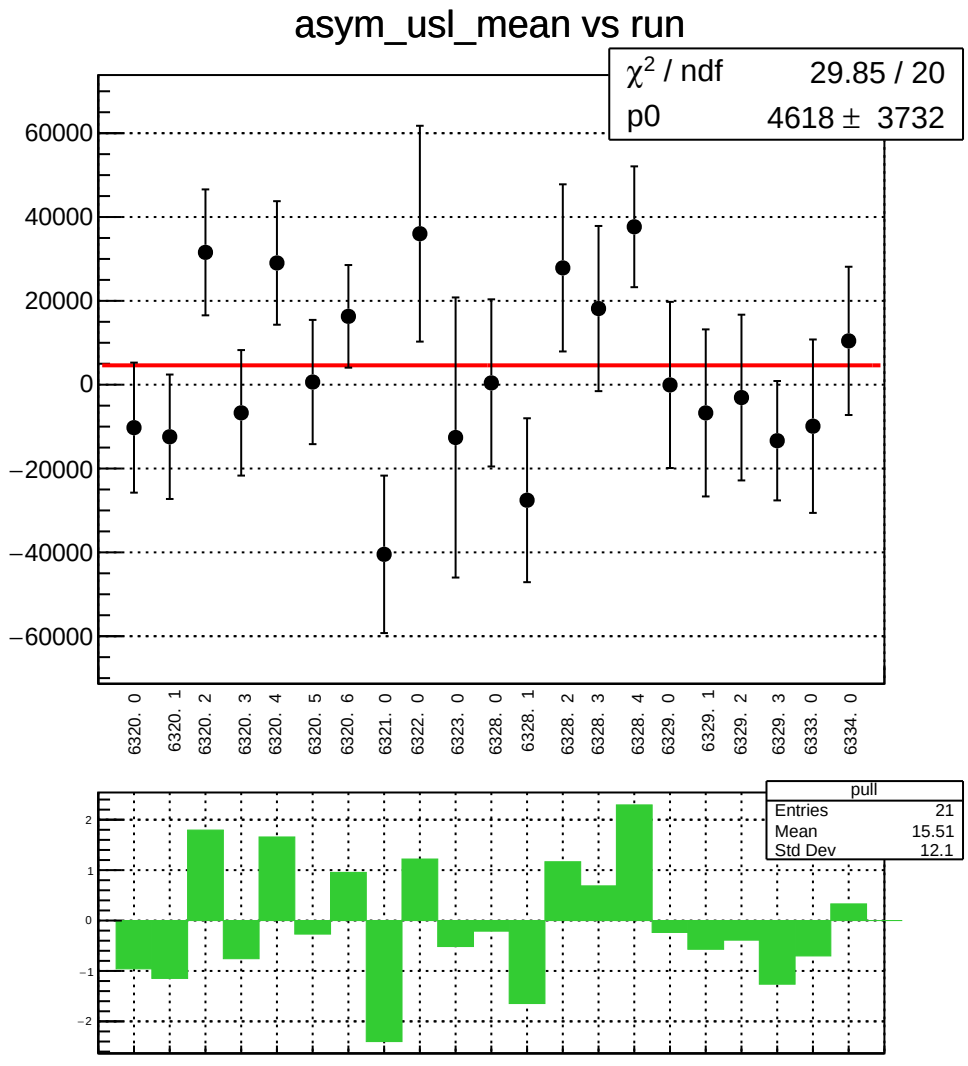

pull1D
Entries 21
Mean −0.02086
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

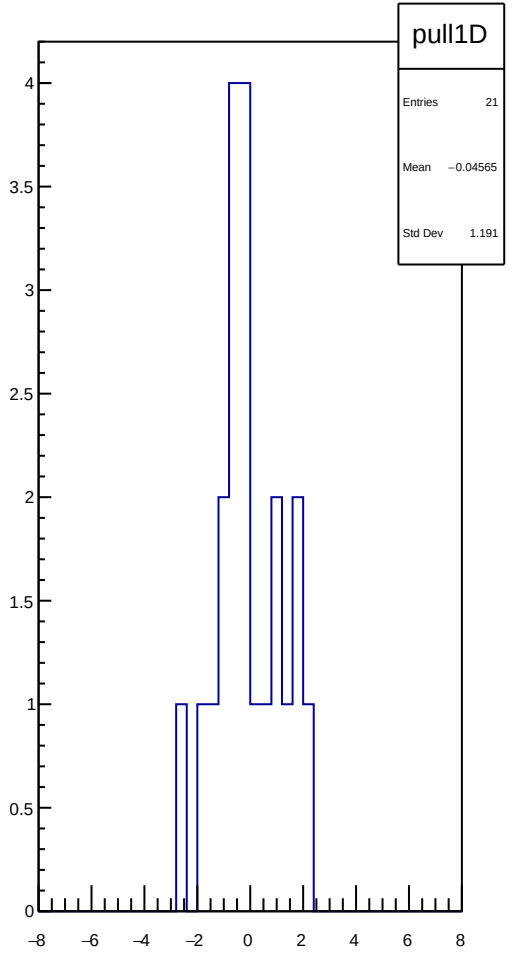

reg_asym_usl_rms vs run
χ² / ndf 26.11 / 20
p0 1135 ± 1.823
1170
1160
1150
1140
1130
1120
1110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

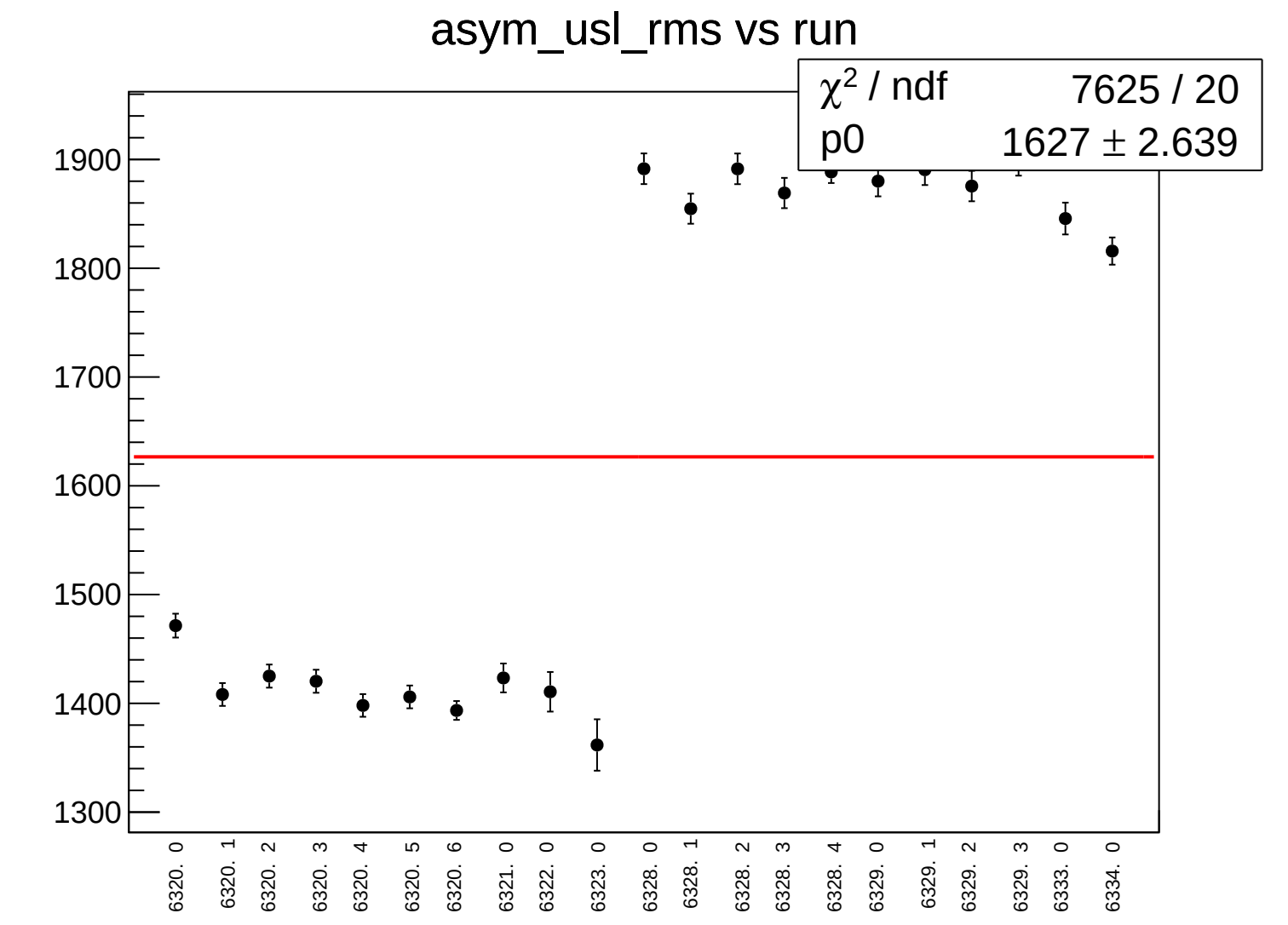

asym_usl_correction_mean vs run
χ² / ndf 21.44 / 20
p0 −2769 ± 2489
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.537
Std Dev 21.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

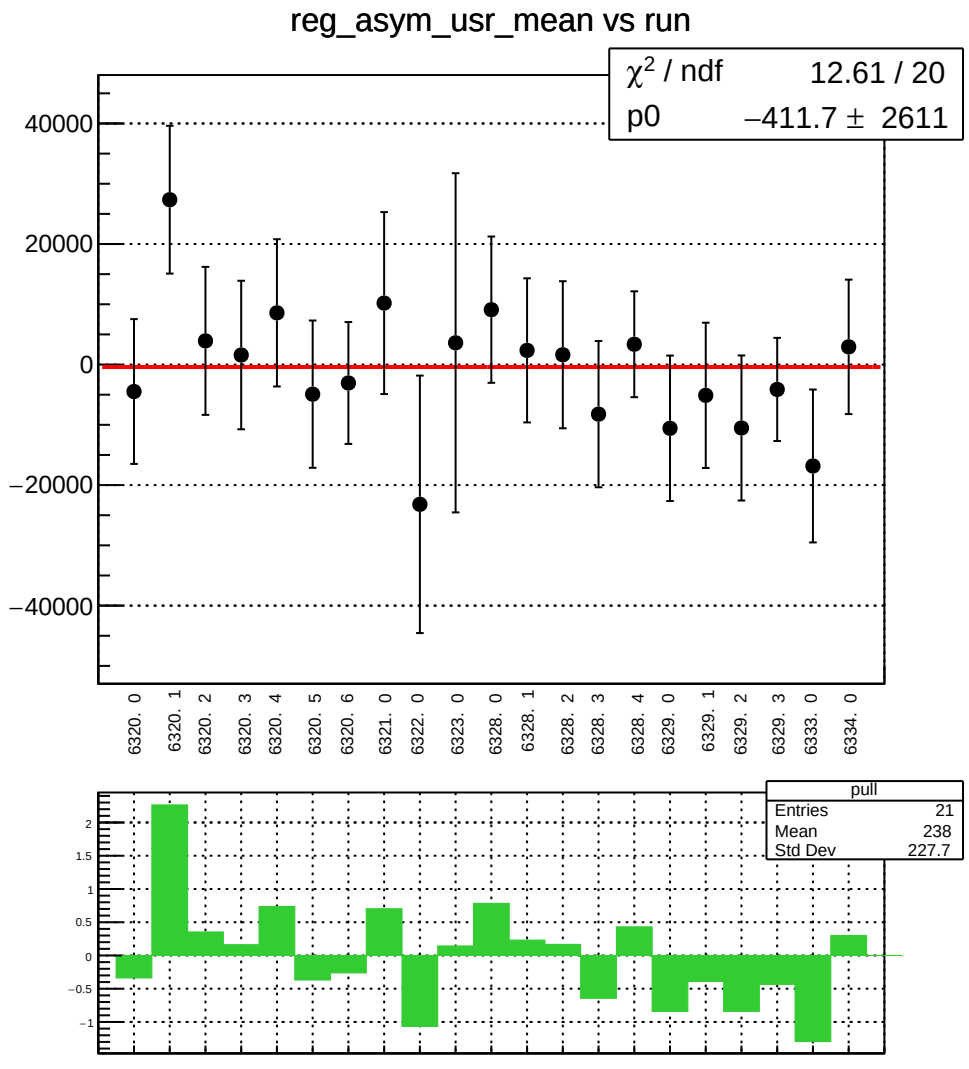

pull1D
Entries 21
Mean 0.02011
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

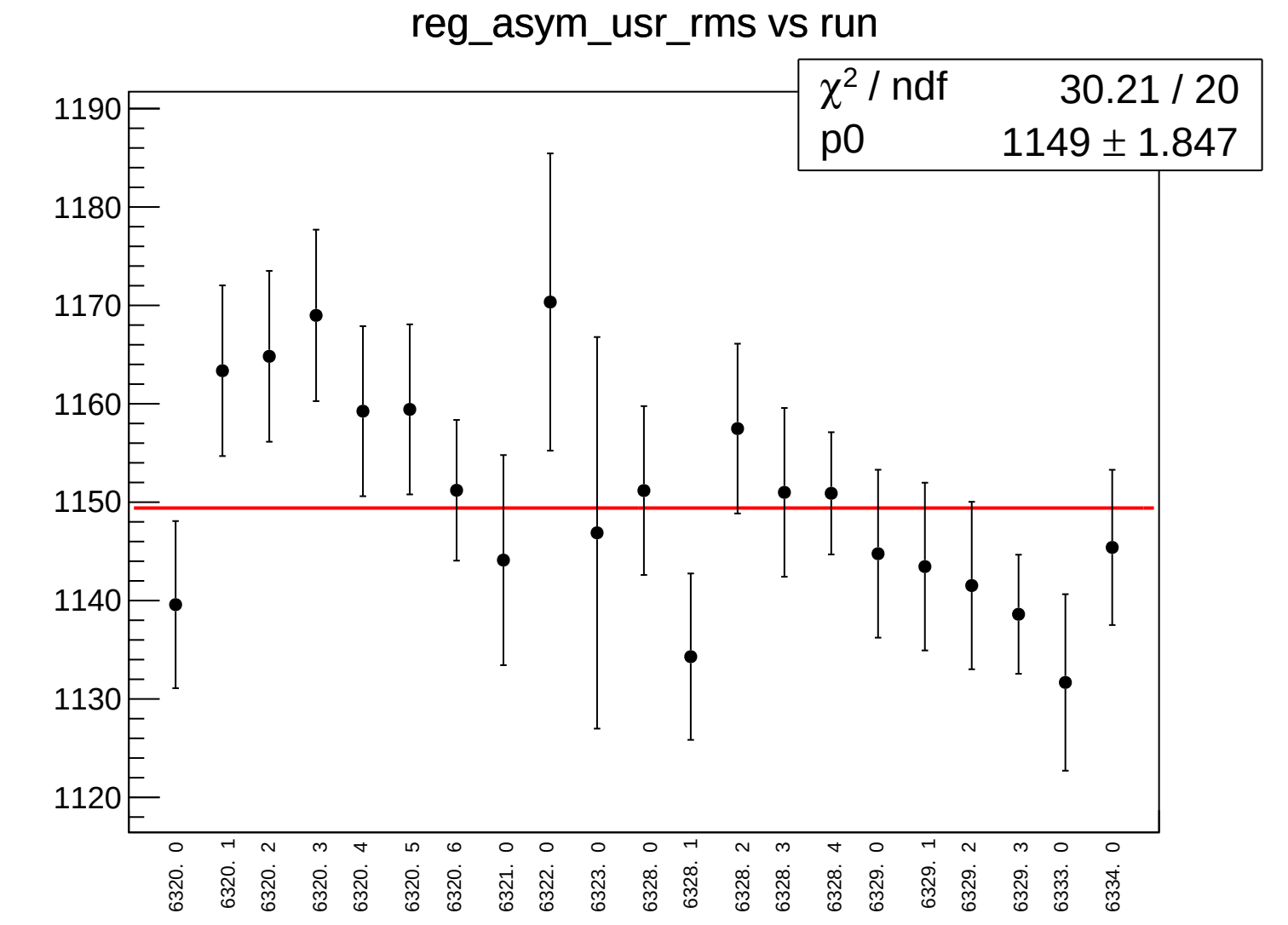

asym_usl_correction_rms vs run
χ² / ndf 3.018e+04 / 20
p0 1052 ± 1.76
1600
1500
1400
1300
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

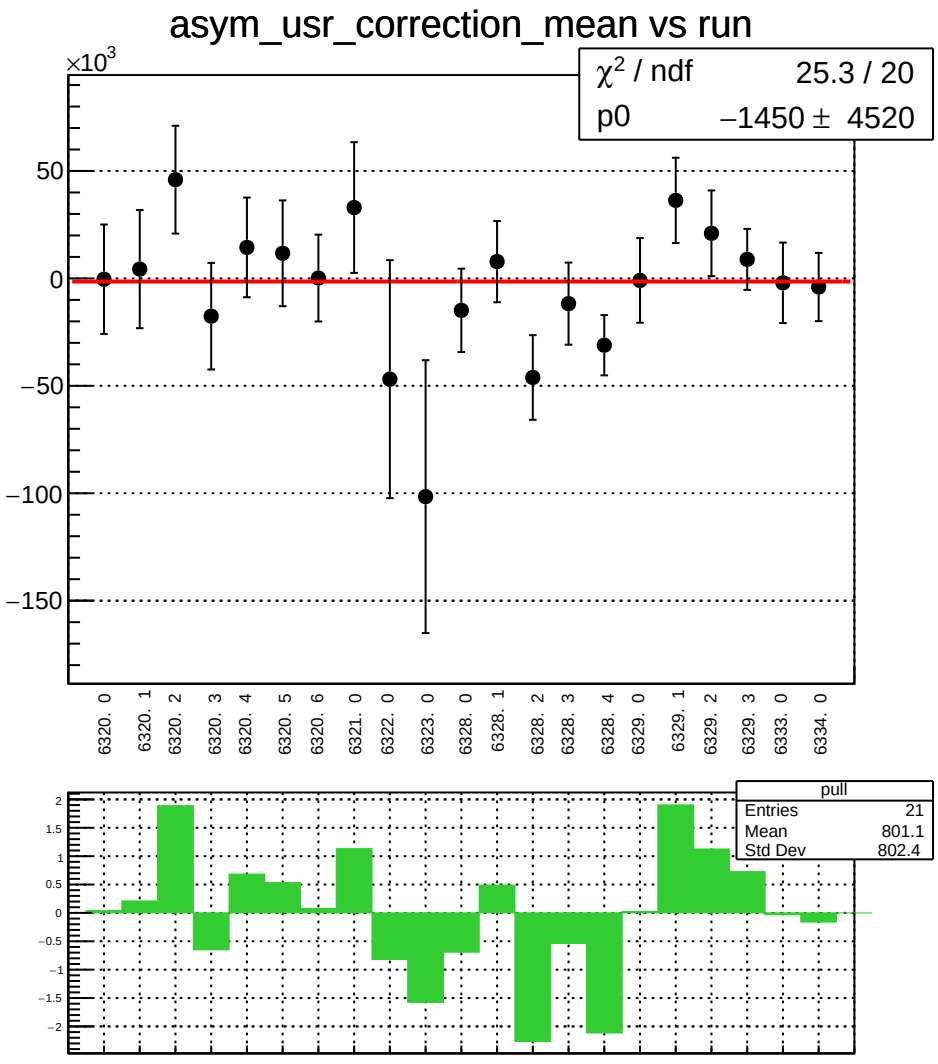

asym_usl_mean vs run
χ² / ndf 29.85 / 20
p0 4618 ± 3732
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 15.51
Std Dev 12.1
2
1
0
−1
−2

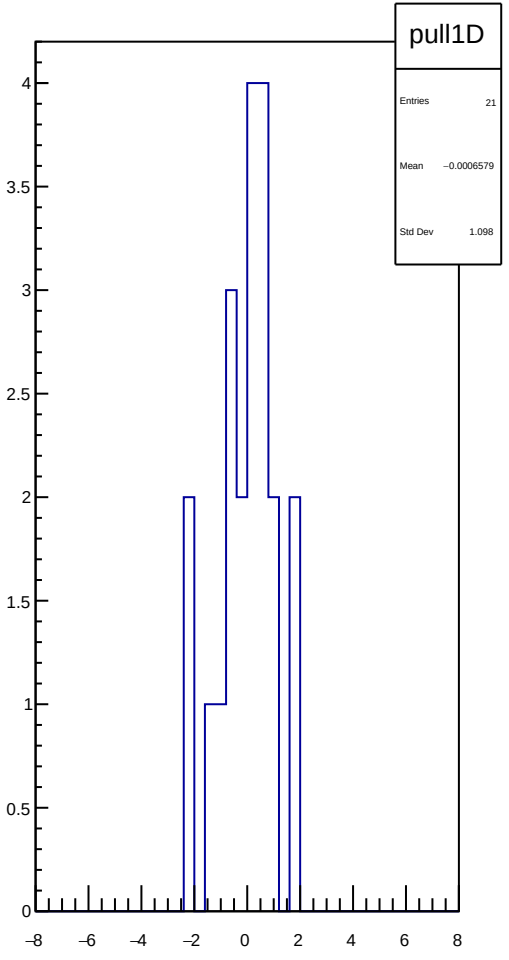

pull1D
Entries 21
Mean −0.04565
Std Dev 1.191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

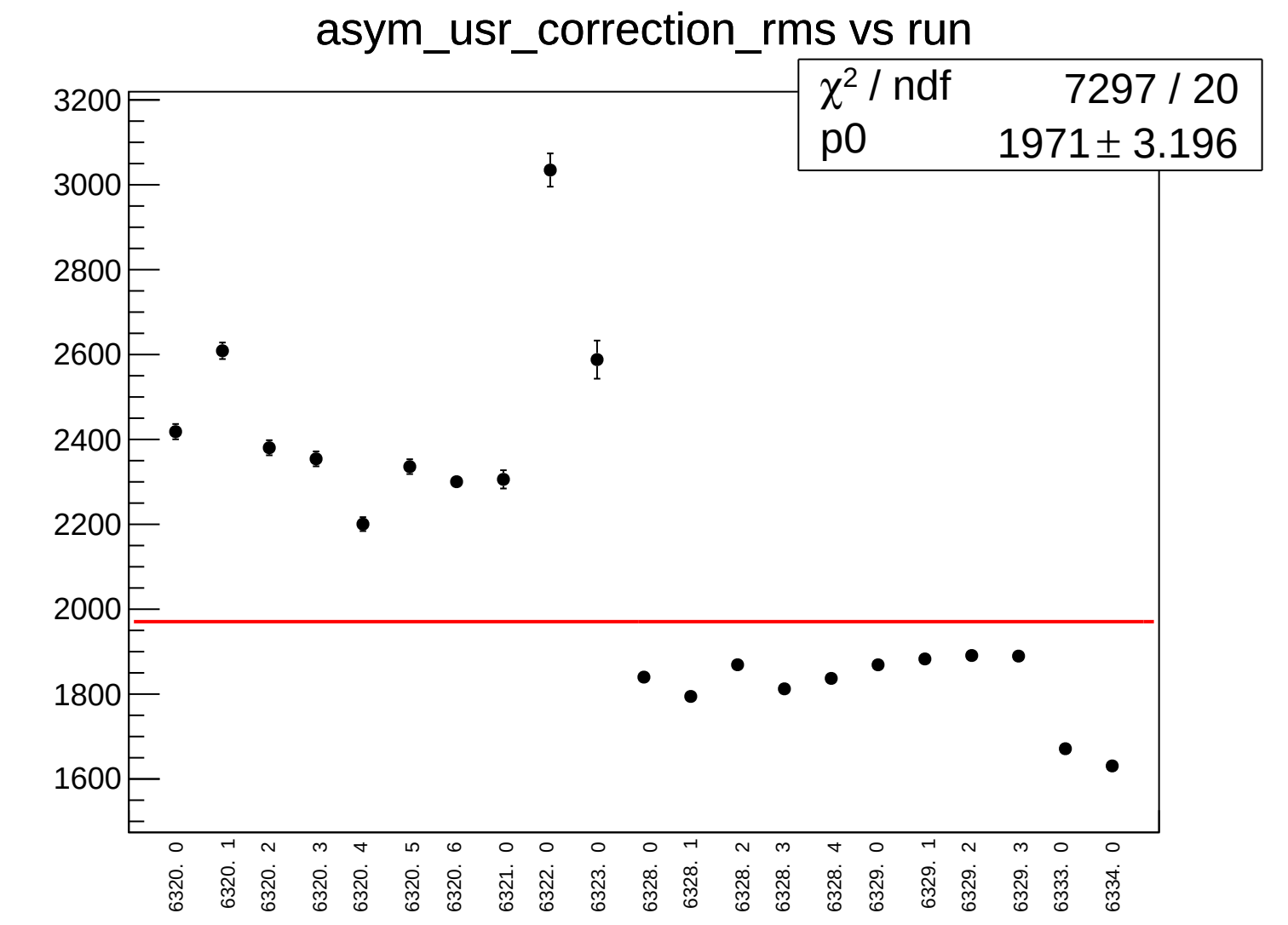

asym_usl_rms vs run
χ² / ndf 7625 / 20
p0 1627 ± 2.639
1900
1800
1700
1600
1500
1400
1300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

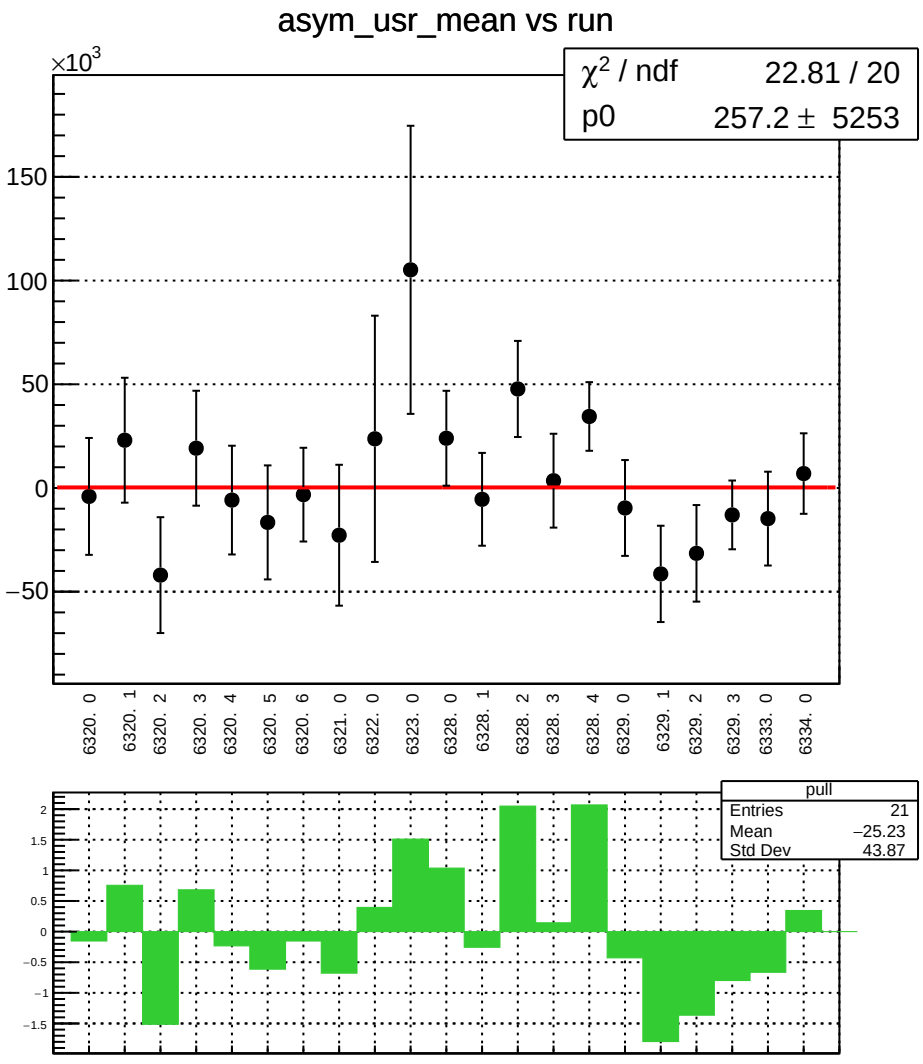

reg_asym_usr_mean vs run
χ² / ndf 12.61 / 20
p0 −411.7 ± 2611
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 238
Std Dev 227.7
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.009799
Std Dev 0.7748
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

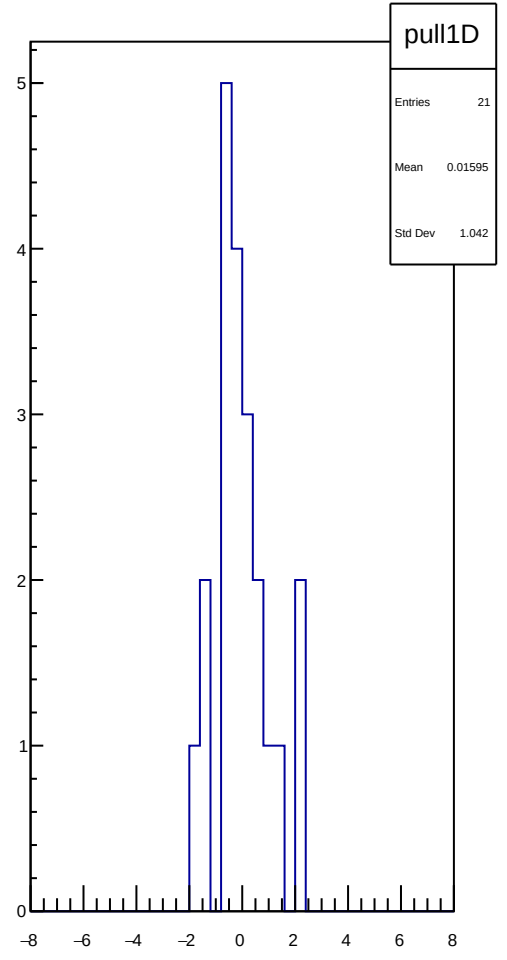

reg_asym_usr_rms vs run
χ² / ndf 30.21 / 20
p0 1149 ± 1.847
1190
1180
1170
1160
1150
1140
1130
1120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

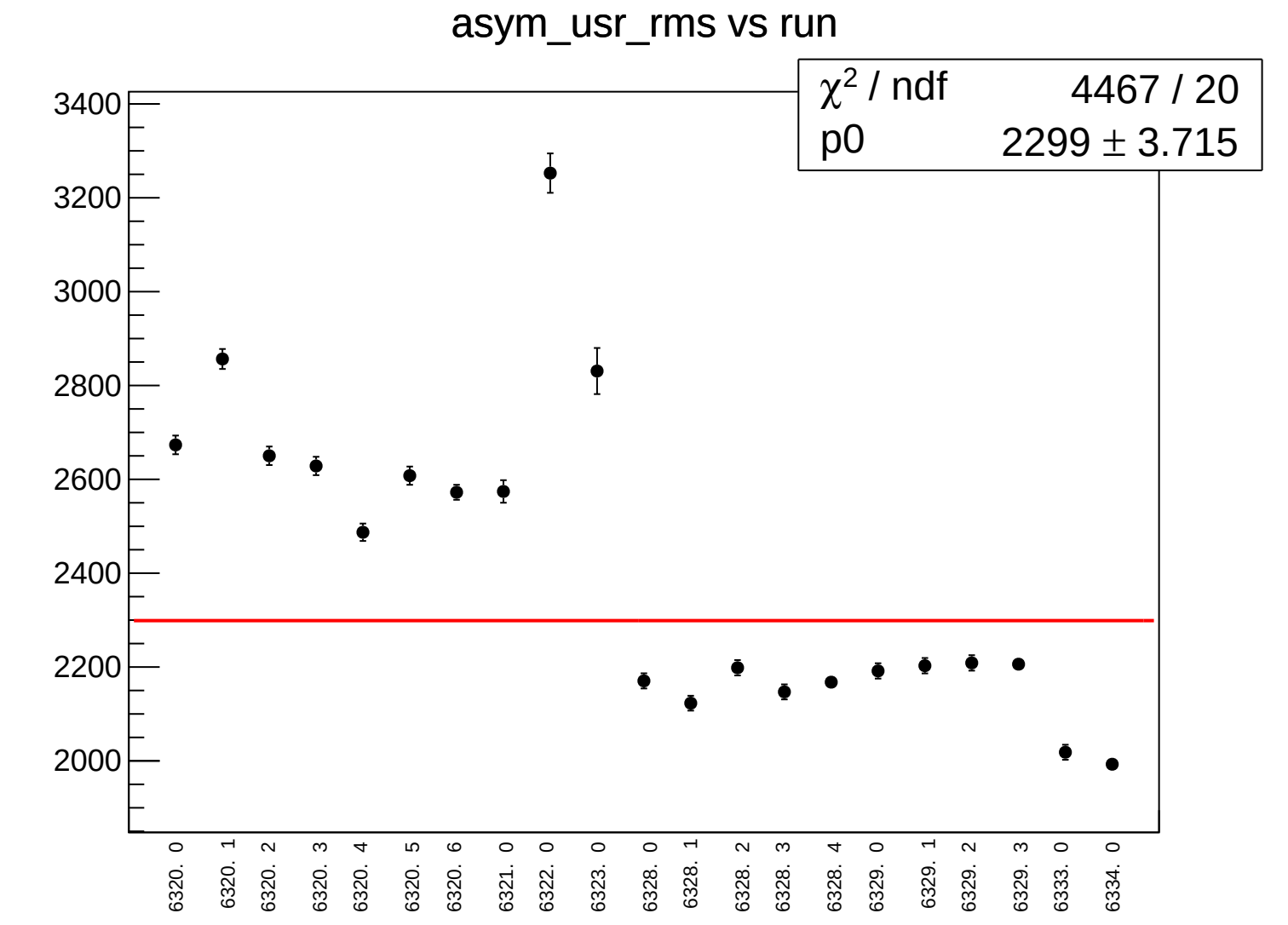

asym_usr_correction_mean vs run
×10^3
χ² / ndf 25.3 / 20
p0 −1450 ± 4520
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 801.1
Std Dev 802.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

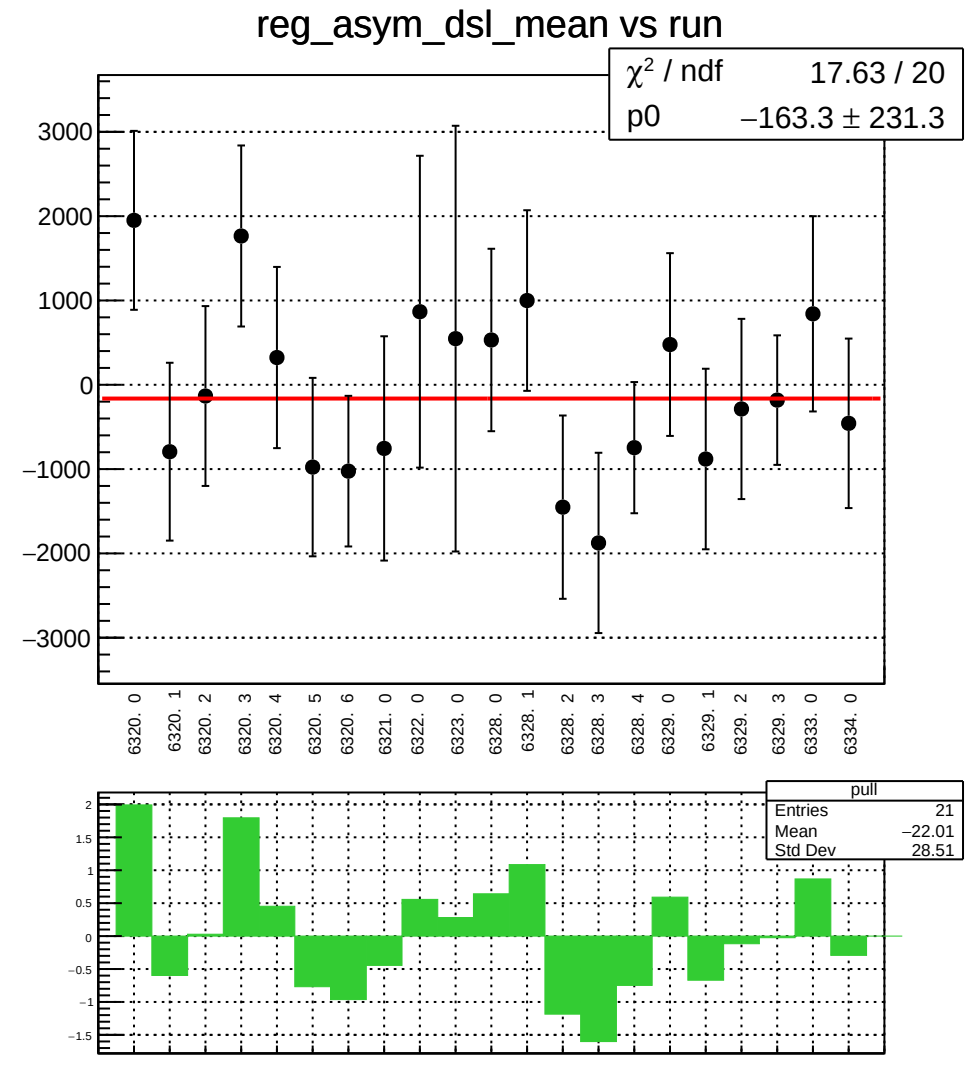

pull1D
Entries 21
Mean −0.0006579
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

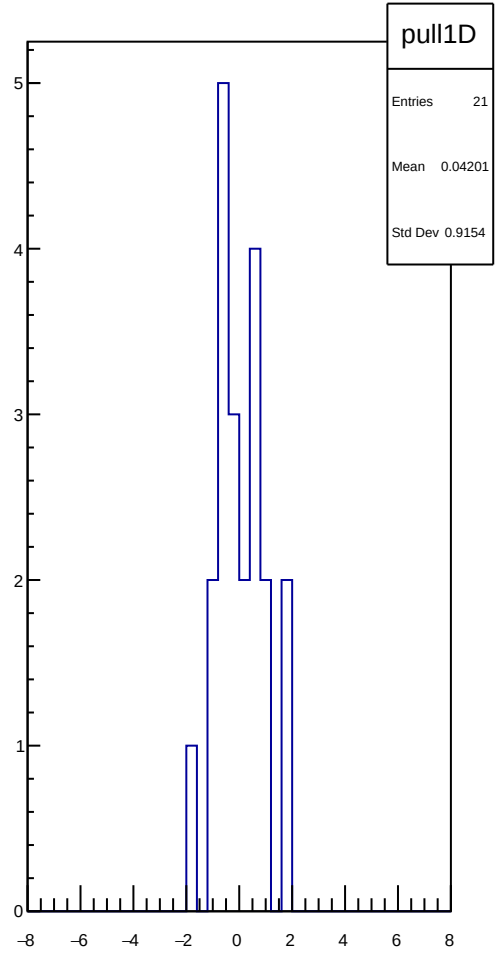

asym_usr_correction_rms vs run
χ² / ndf 7297 / 20
p0 1971 ± 3.196
3200
3000
2800
2600
2400
2200
2000
1800
1600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

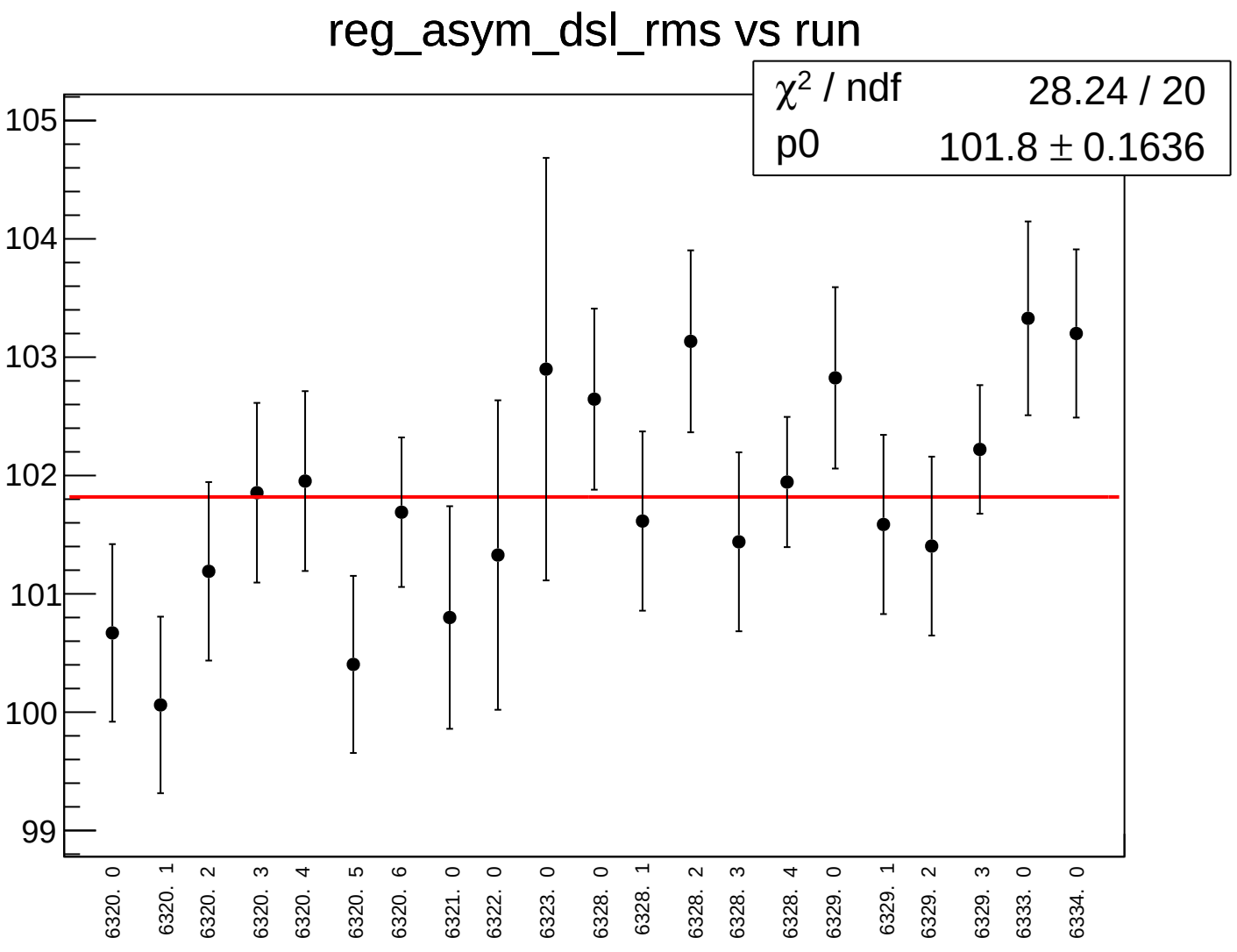

asym_usr_mean vs run
×10^3
χ² / ndf 22.81 / 20
p0 257.2 ± 5253
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.23
Std Dev 43.87
2
1.5
1
0.5
0
−0.5
−1
−1.5

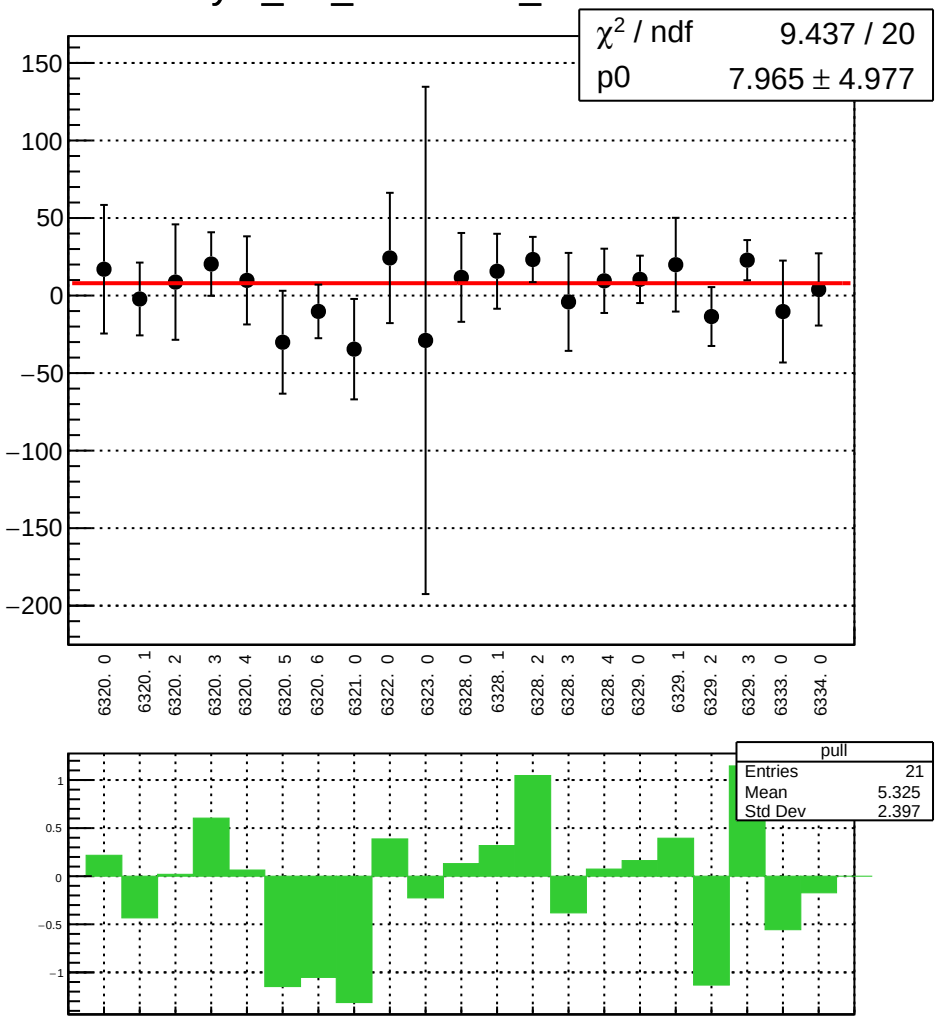

pull1D
Entries 21
Mean 0.01595
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

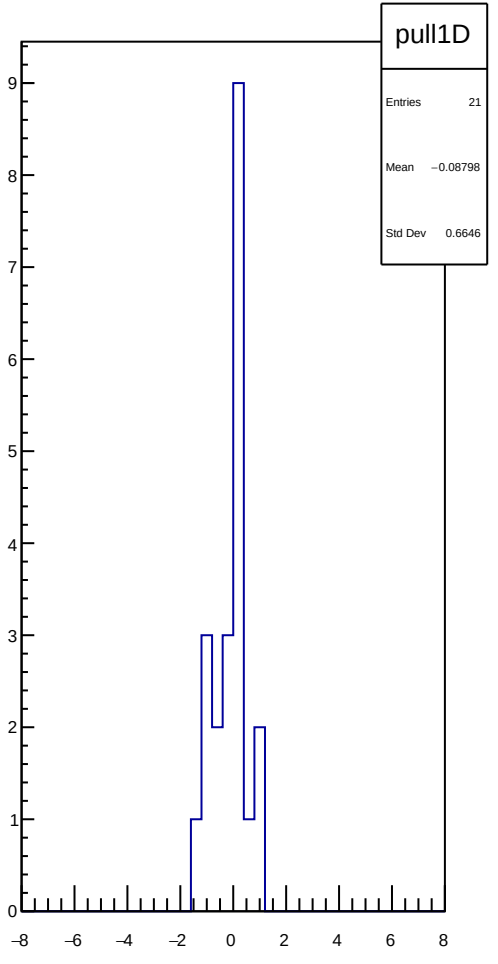

asym_usr_rms vs run
χ² / ndf 4467 / 20
p0 2299 ± 3.715
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

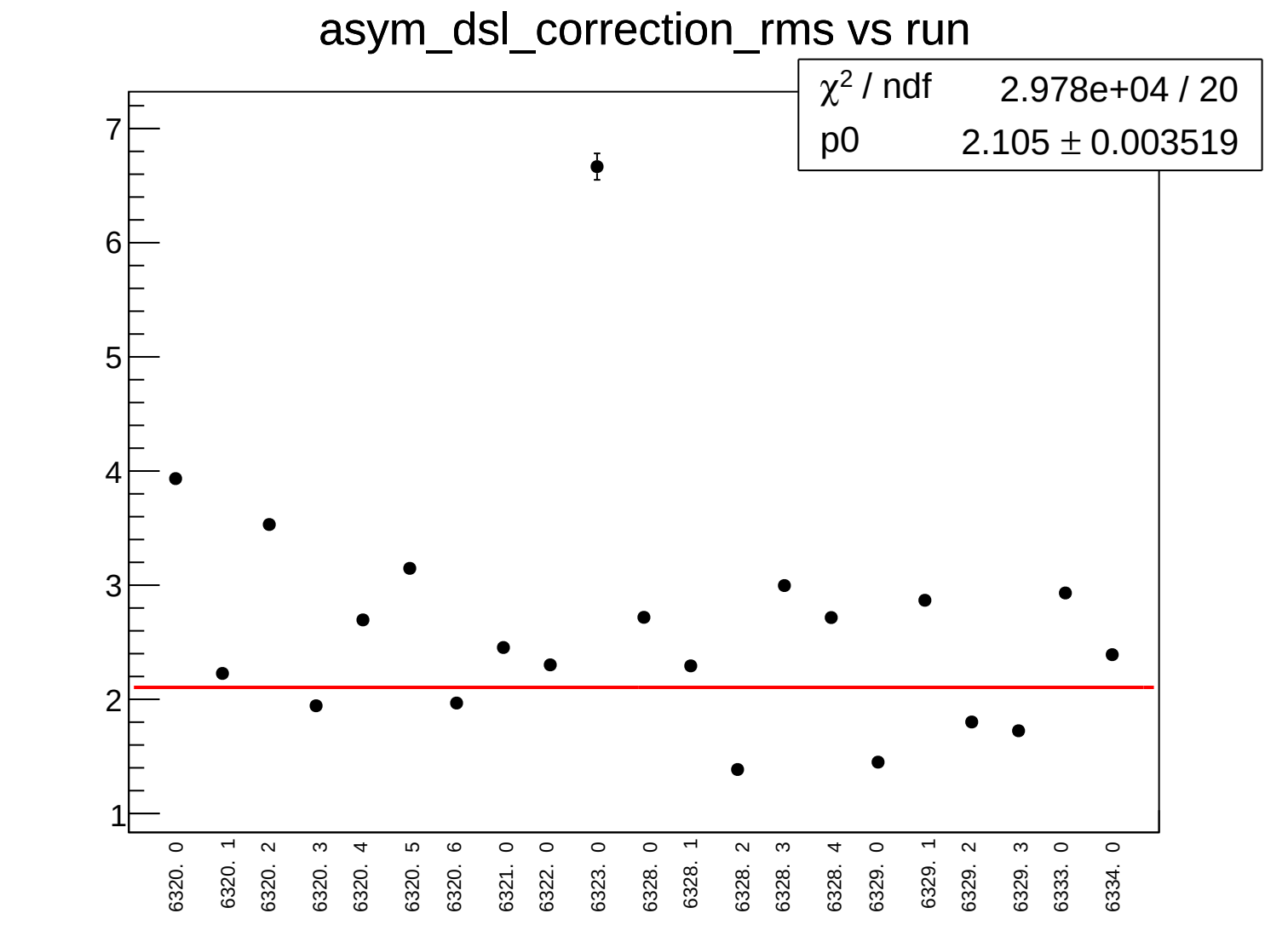

reg_asym_dsl_mean vs run
χ² / ndf 17.63 / 20
p0 −163.3 ± 231.3
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −22.01
Std Dev 28.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

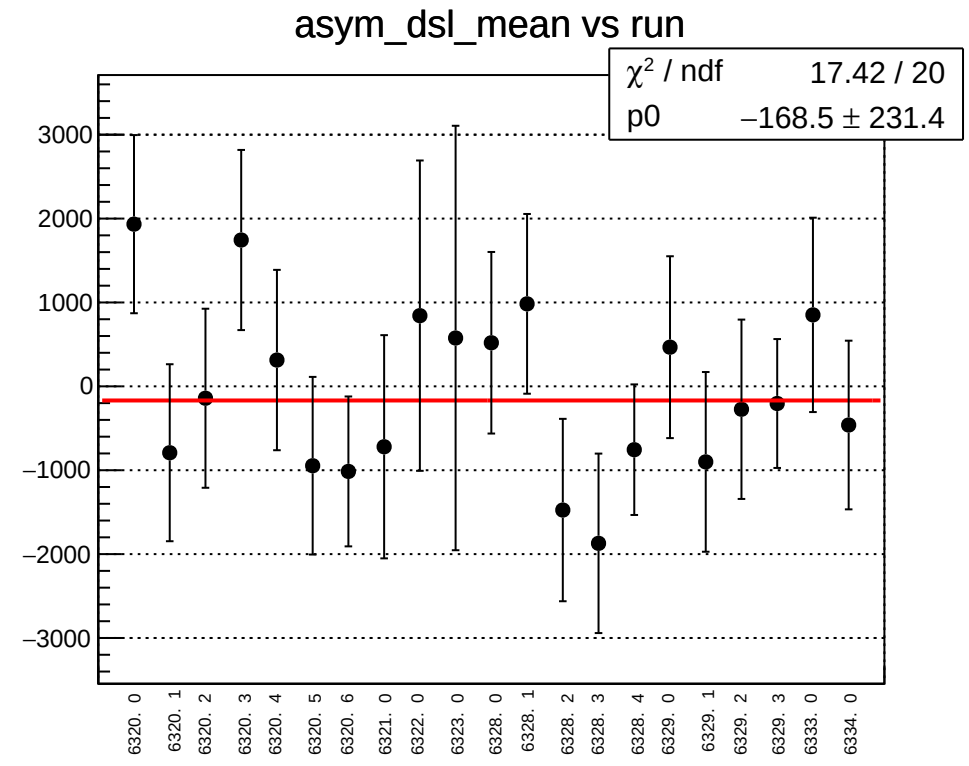

pull1D
Entries 21
Mean 0.04201
Std Dev 0.9154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

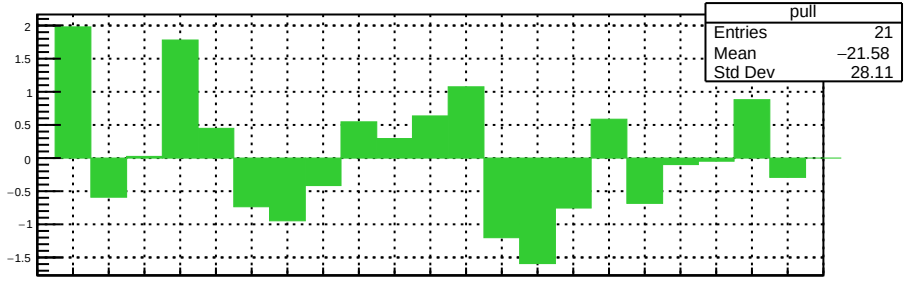

reg_asym_dsl_rms vs run
χ² / ndf 28.24 / 20
p0 101.8 ± 0.1636
105
104
103
102
101
100
99
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

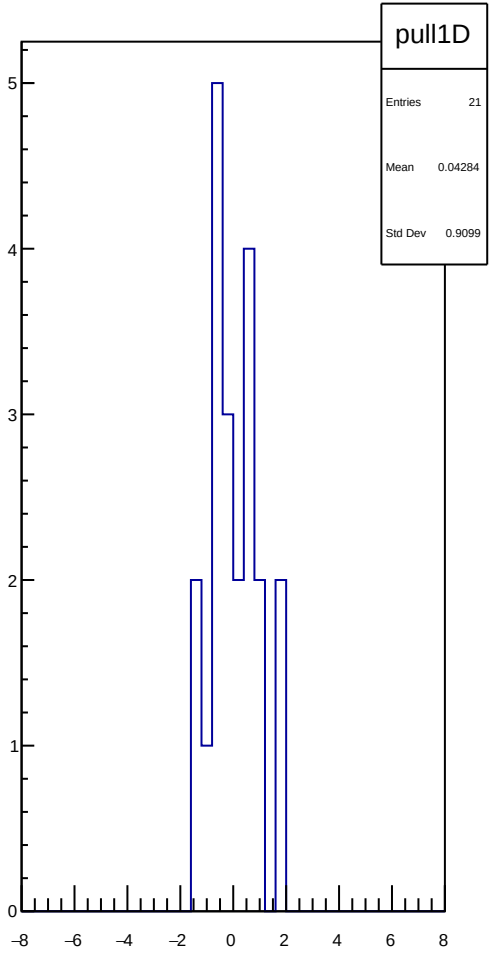

asym_dsl_correction_mean vs run
χ² / ndf 9.437 / 20
p0 7.965 ± 4.977
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.325
Std Dev 2.397
1
0.5
0
−0.5
−1

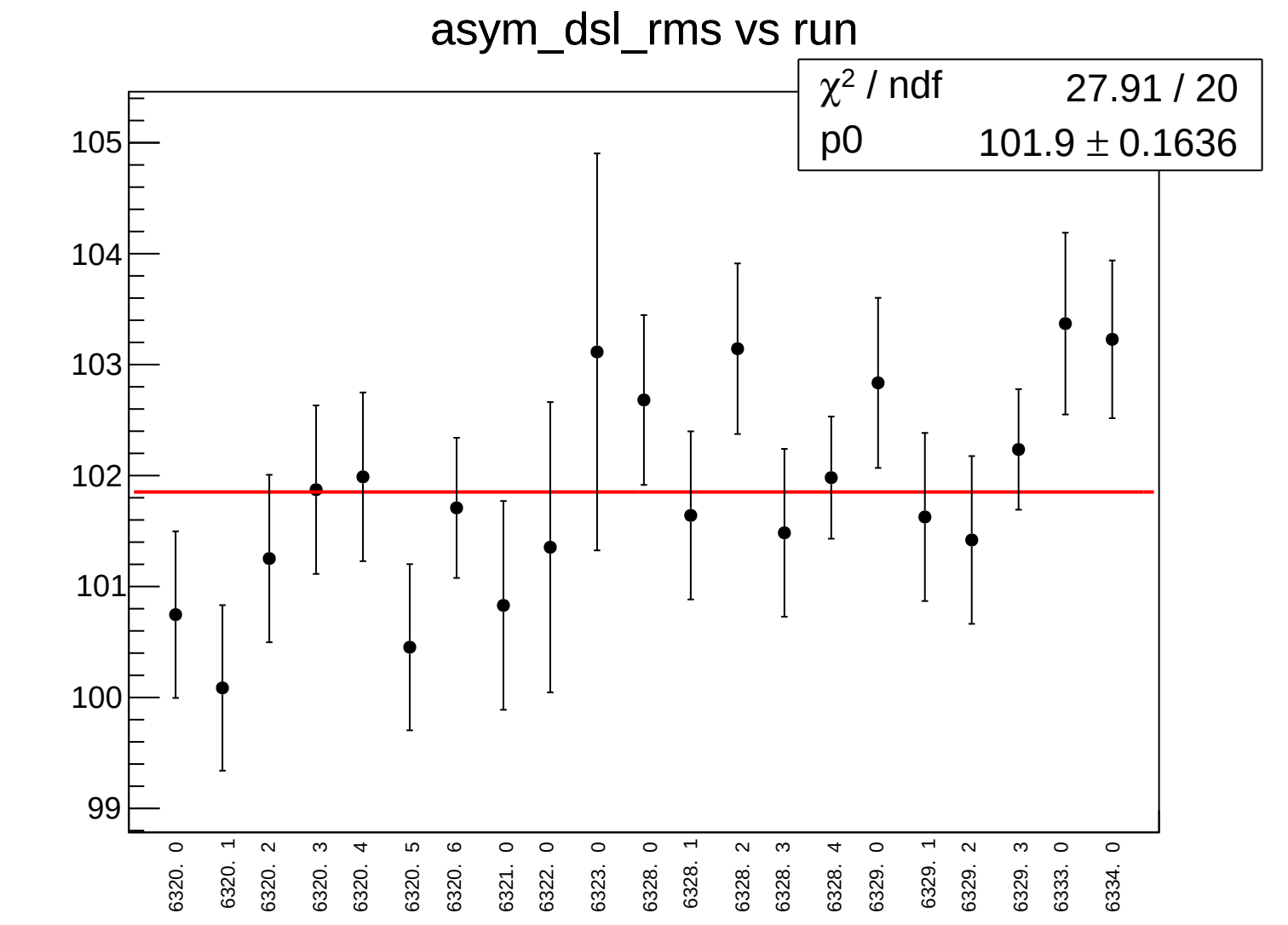

pull1D
Entries 21
Mean −0.08798
Std Dev 0.6646
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

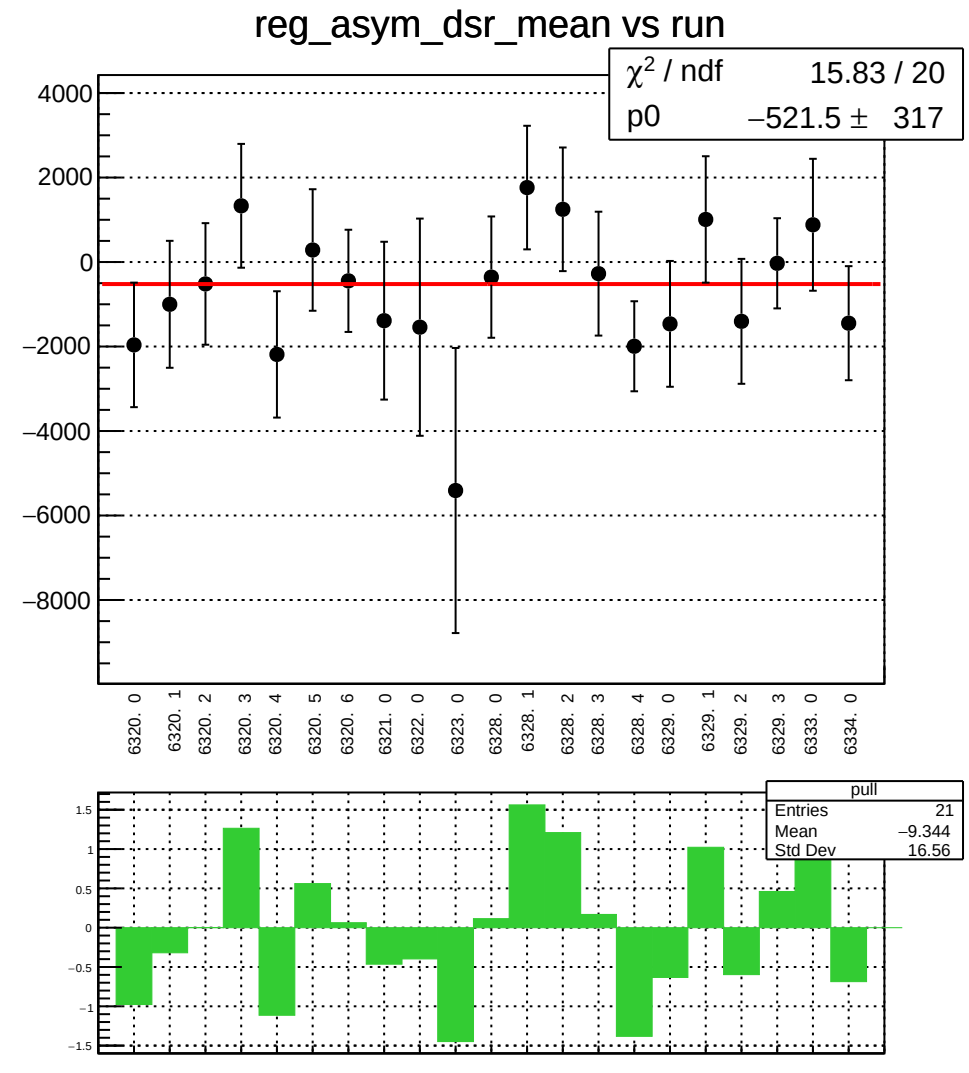

asym_dsl_correction_rms vs run
χ^2 / ndf 2.978e+04 / 20
p0 2.105 ± 0.003519
7
6
5
4
3
2
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

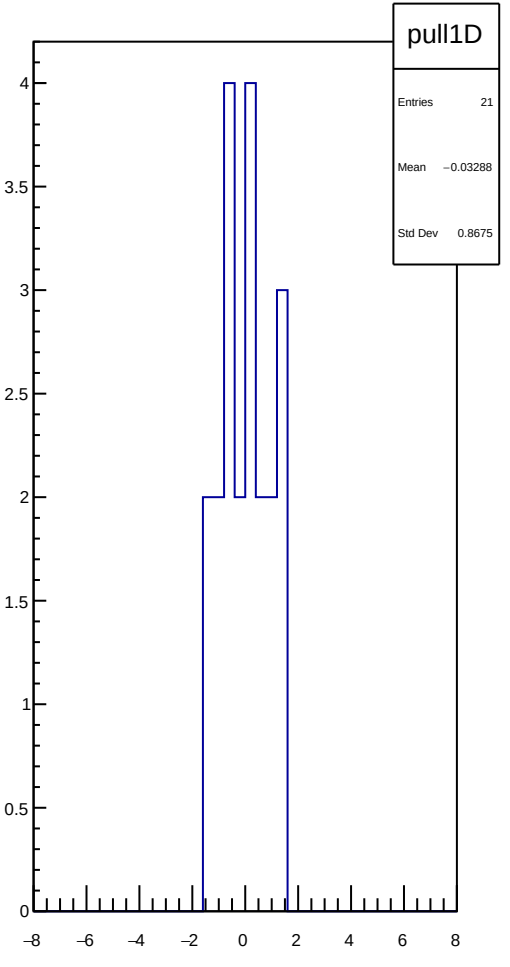

asym_dsl_mean vs run
χ² / ndf 17.42 / 20
p0 −168.5 ± 231.4
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

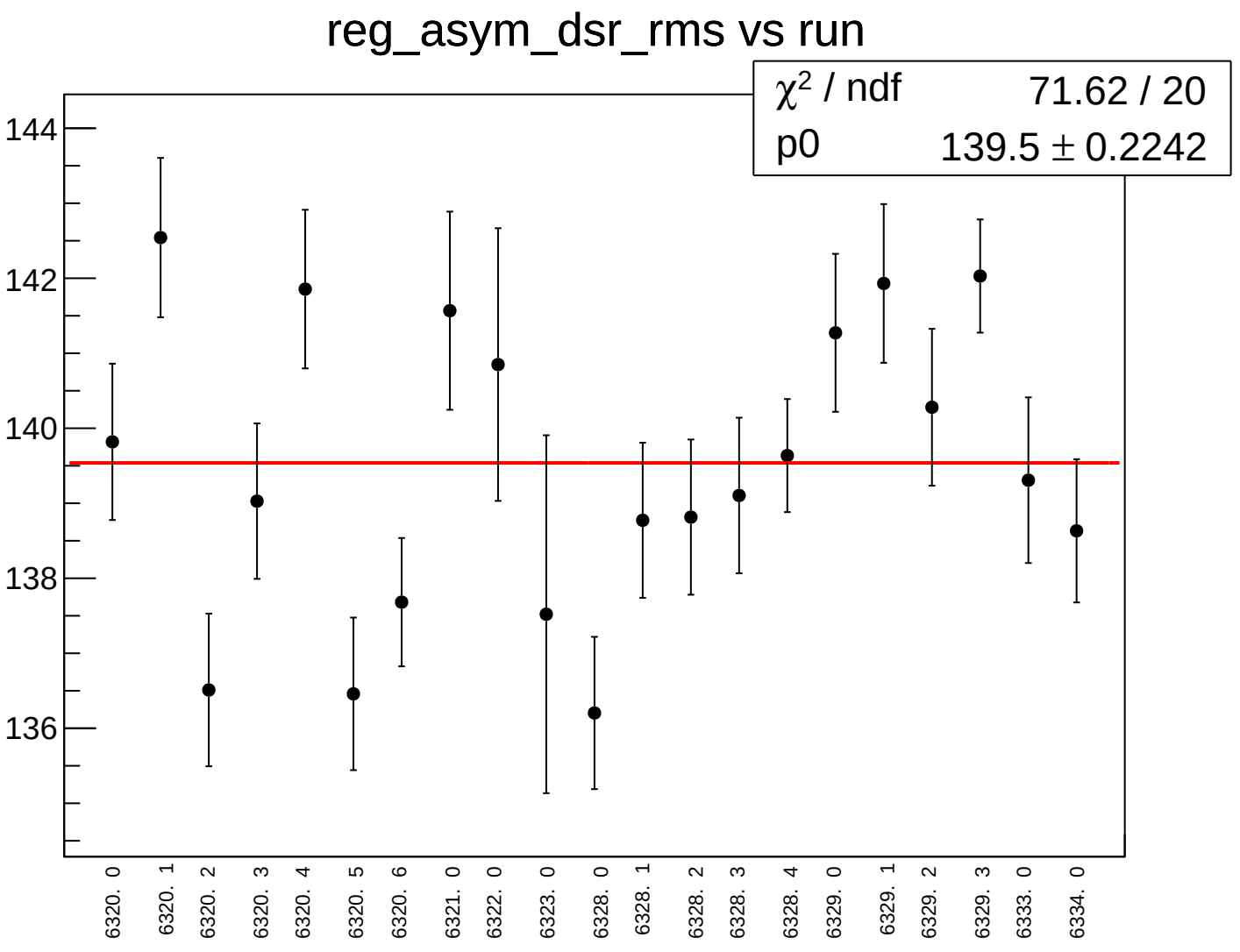

pull
Entries 21
Mean −21.58
Std Dev 28.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

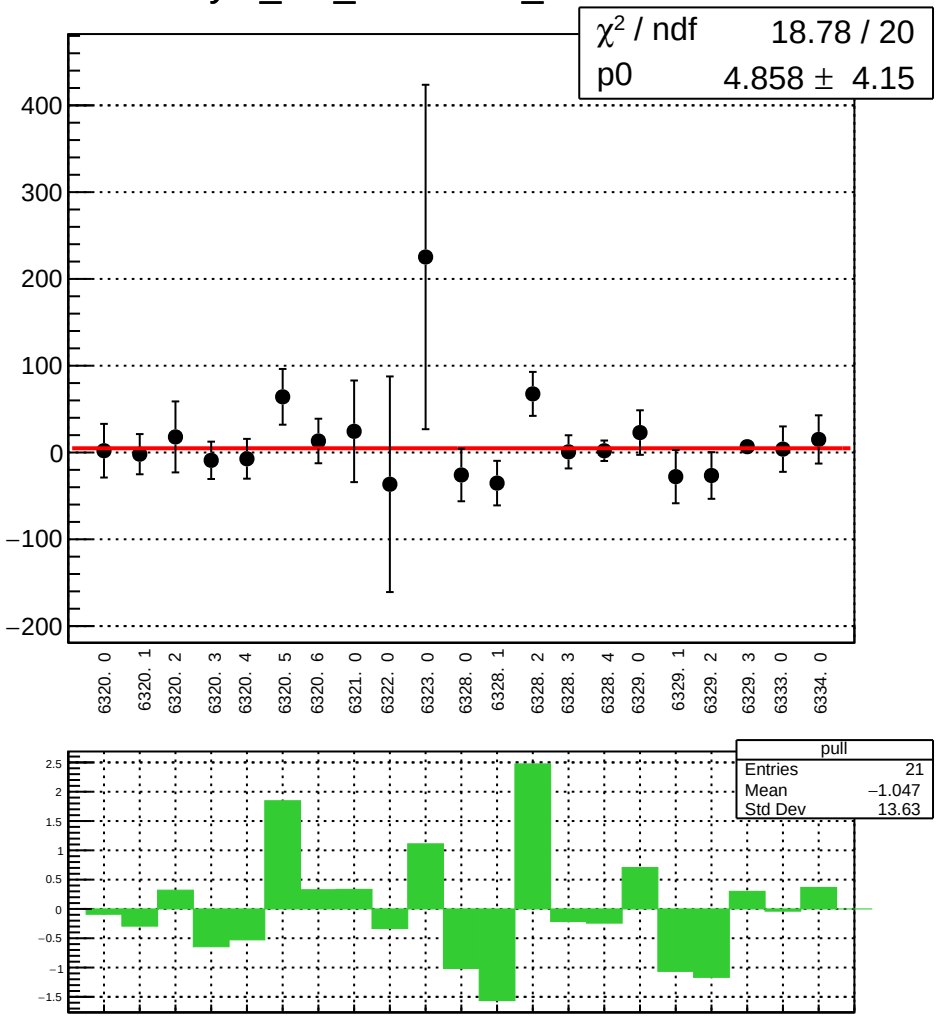

pull1D
Entries 21
Mean 0.04284
Std Dev 0.9099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

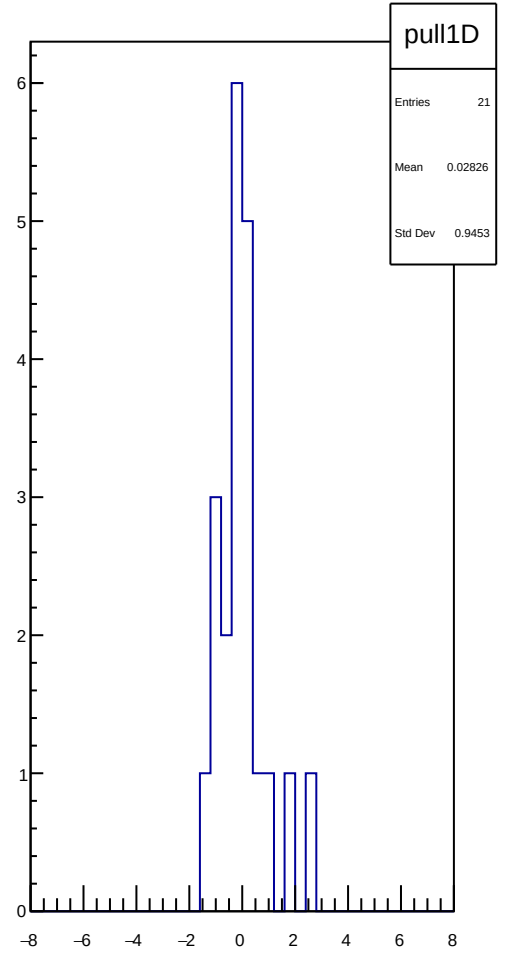

asym_dsl_rms vs run
χ² / ndf 27.91 / 20
p0 101.9 ± 0.1636
105
104
103
102
101
100
99
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

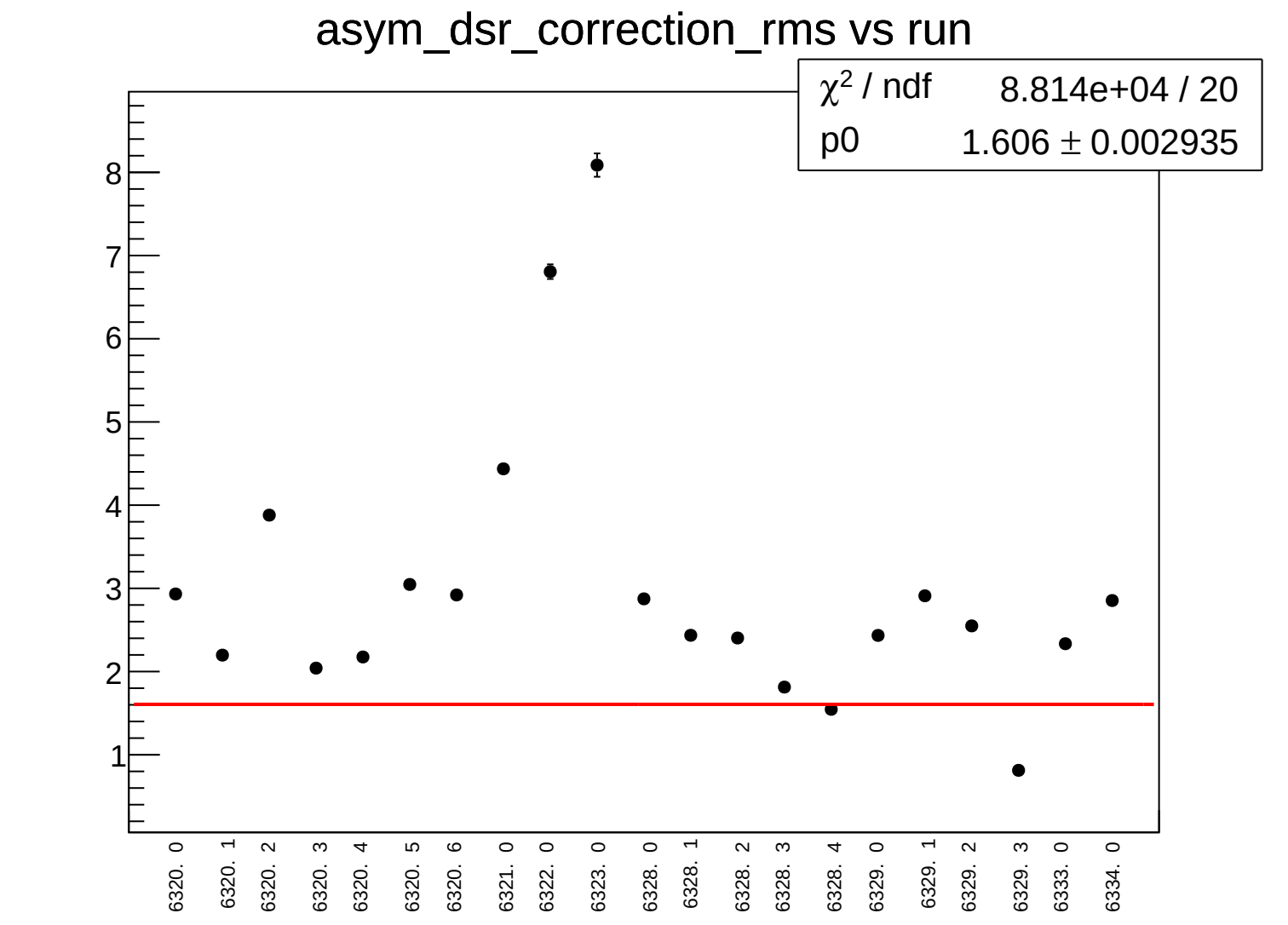

reg_asym_dsr_mean vs run
χ² / ndf 15.83 / 20
p0 −521.5 ± 317
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.344
Std Dev 16.56
1.5
1
0.5
0
−0.5
−1
−1.5

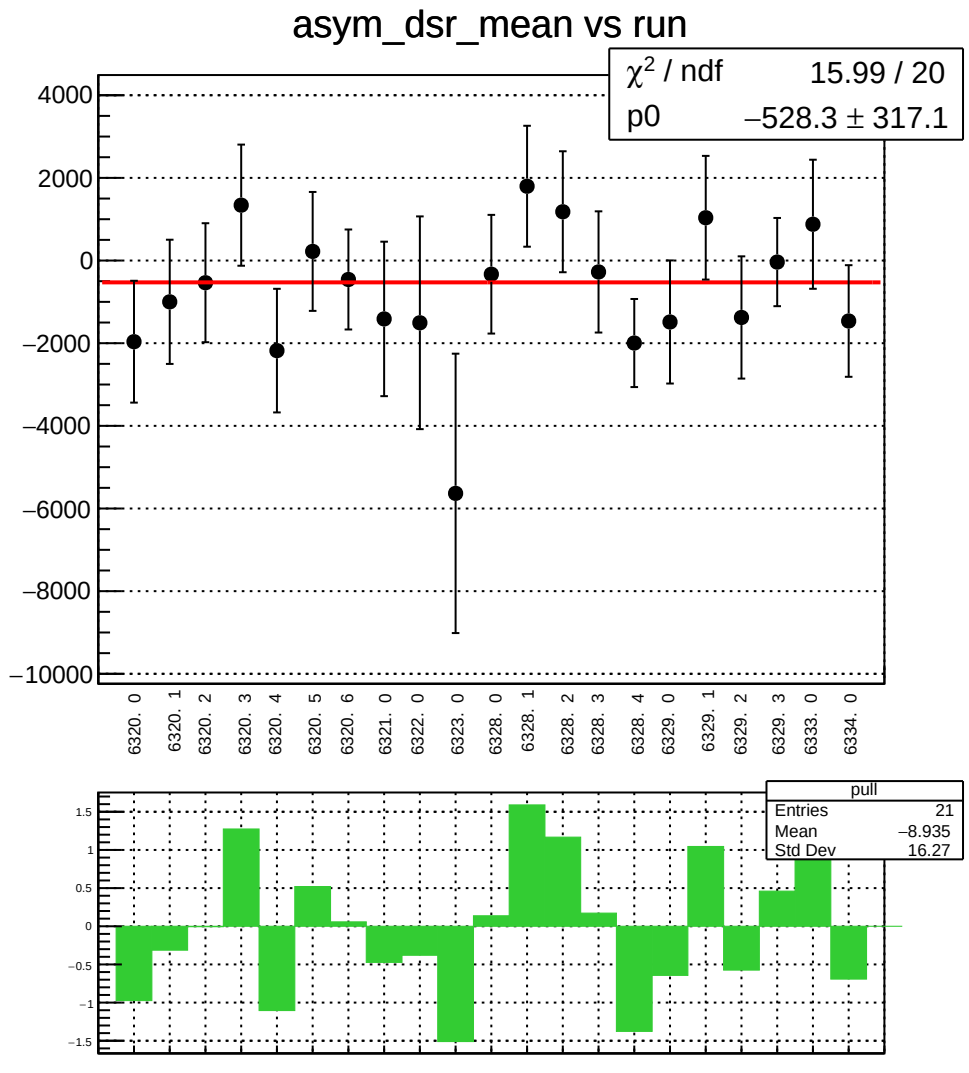

pull1D
Entries 21
Mean −0.03288
Std Dev 0.8675
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

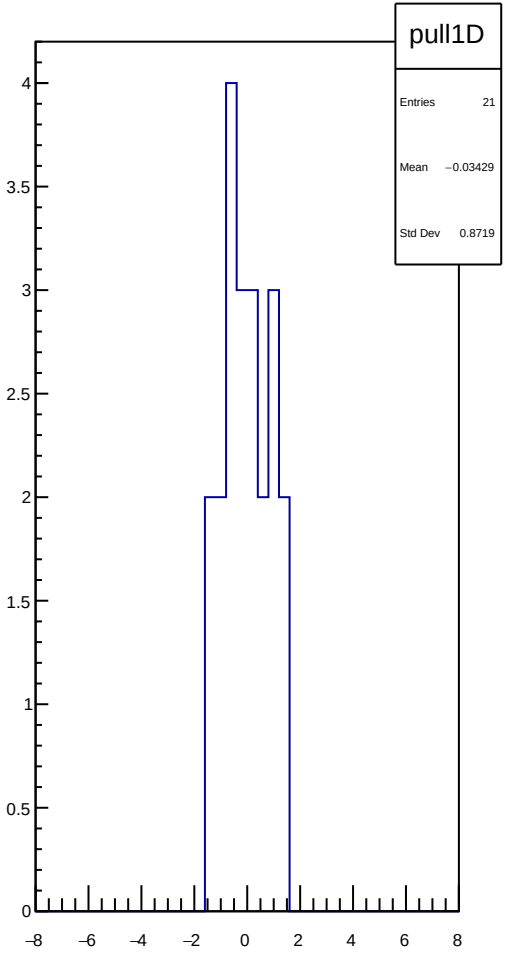

reg_asym_dsr_rms vs run
χ² / ndf 71.62 / 20
p0 139.5 ± 0.2242
144
142
140
138
136
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

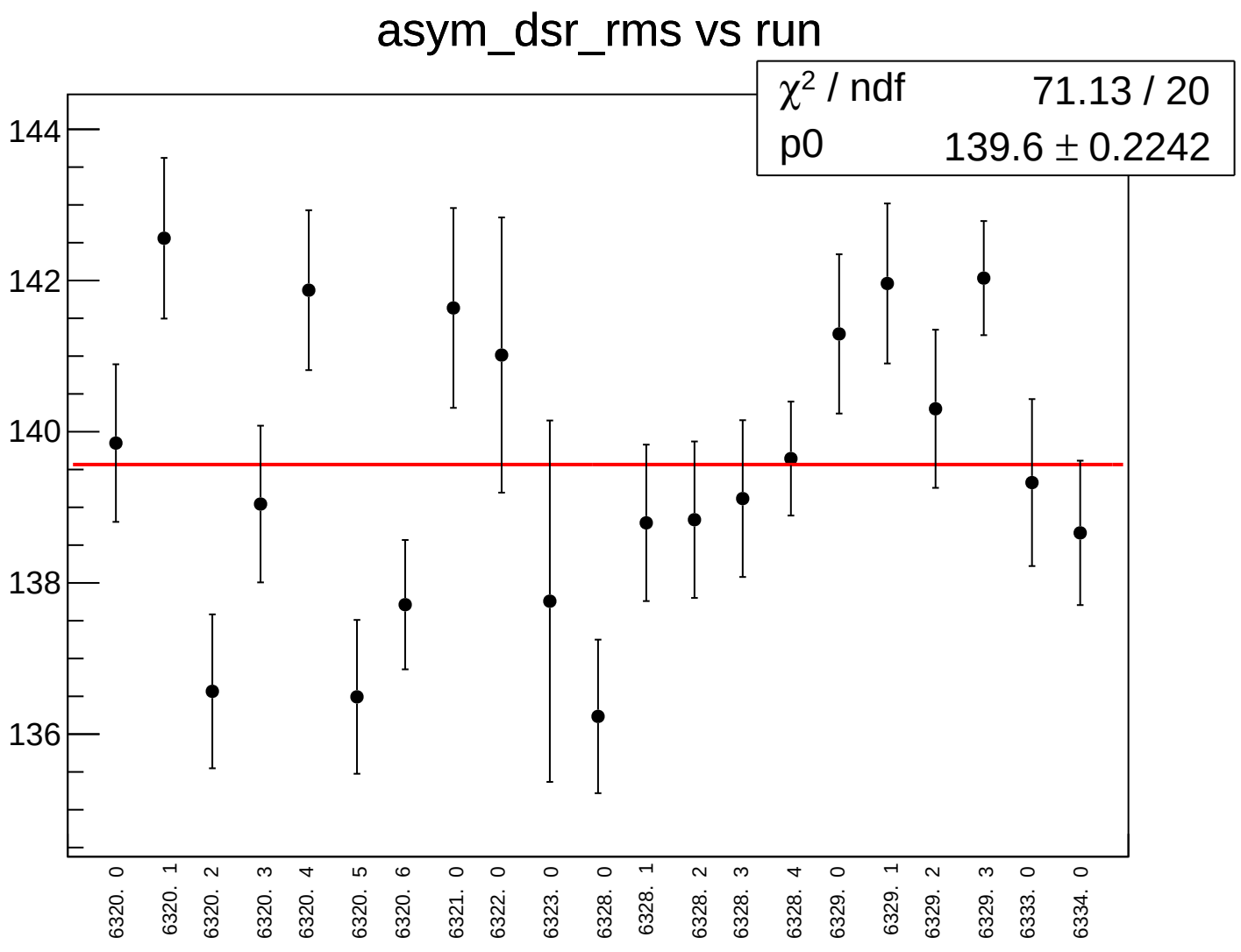

asym_dsr_correction_mean vs run
χ² / ndf 18.78 / 20
p0 4.858 ± 4.15
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.047
Std Dev 13.63
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

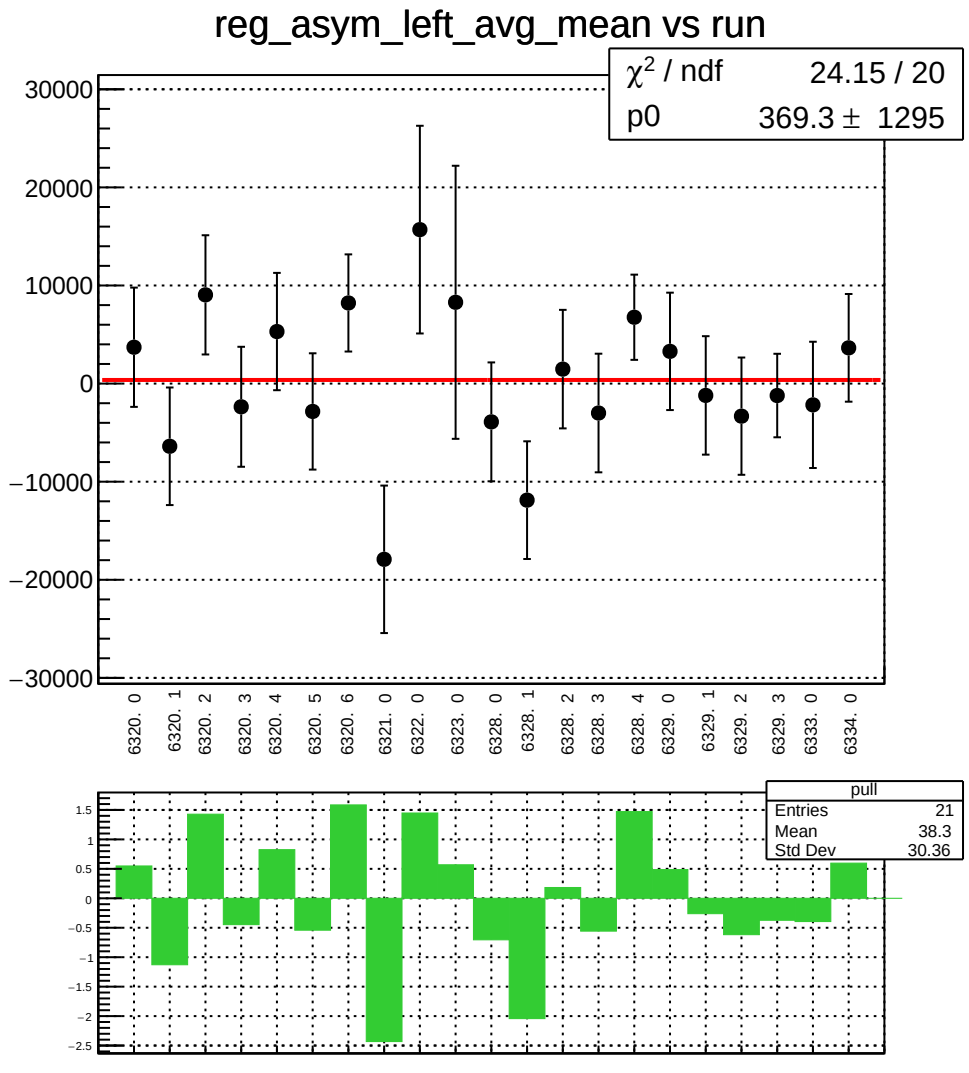

pull1D
Entries 21
Mean 0.02826
Std Dev 0.9453
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

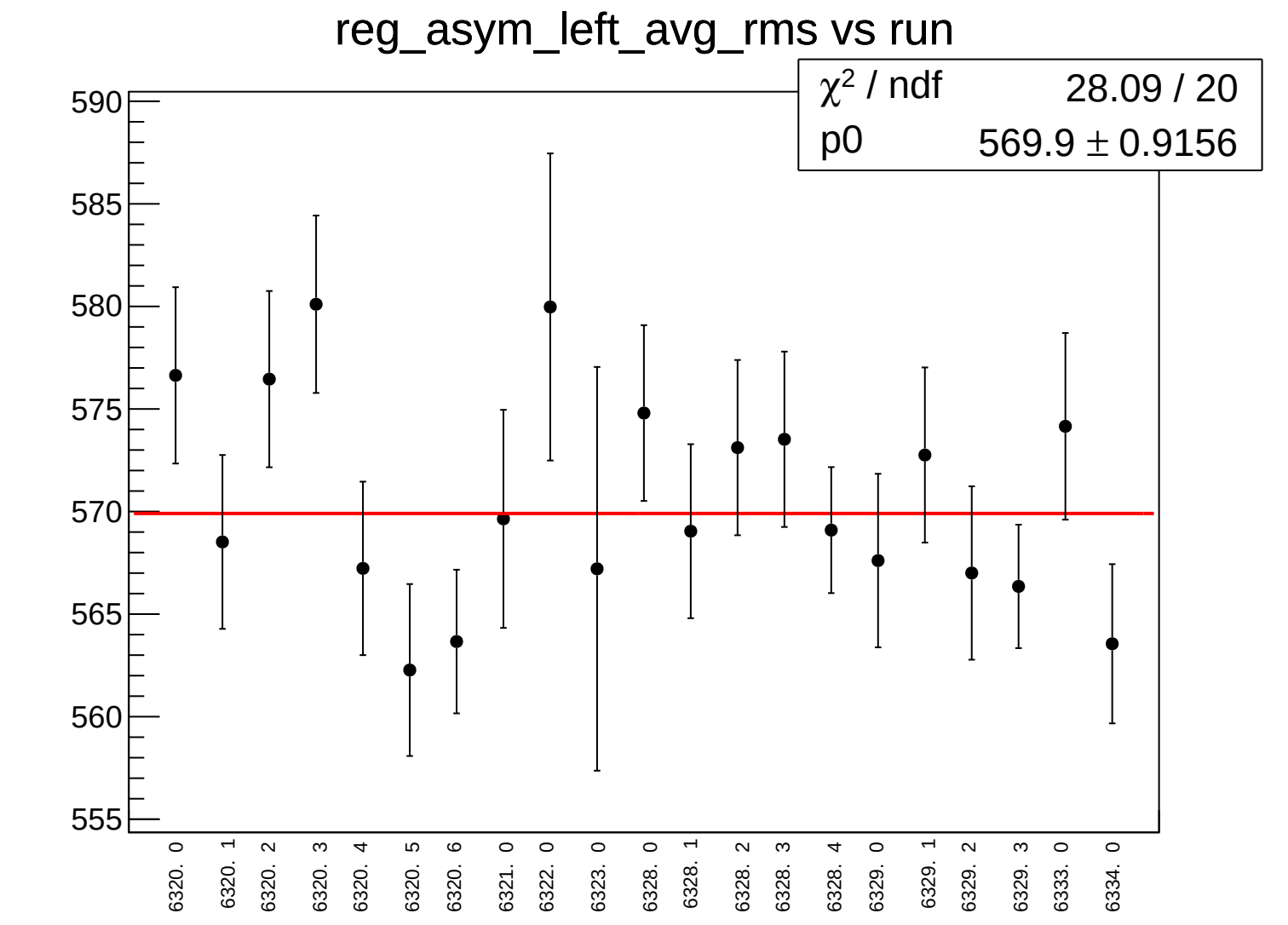

asym_dsr_correction_rms vs run
χ² / ndf 8.814e+04 / 20
p0 1.606 ± 0.002935
8
7
6
5
4
3
2
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

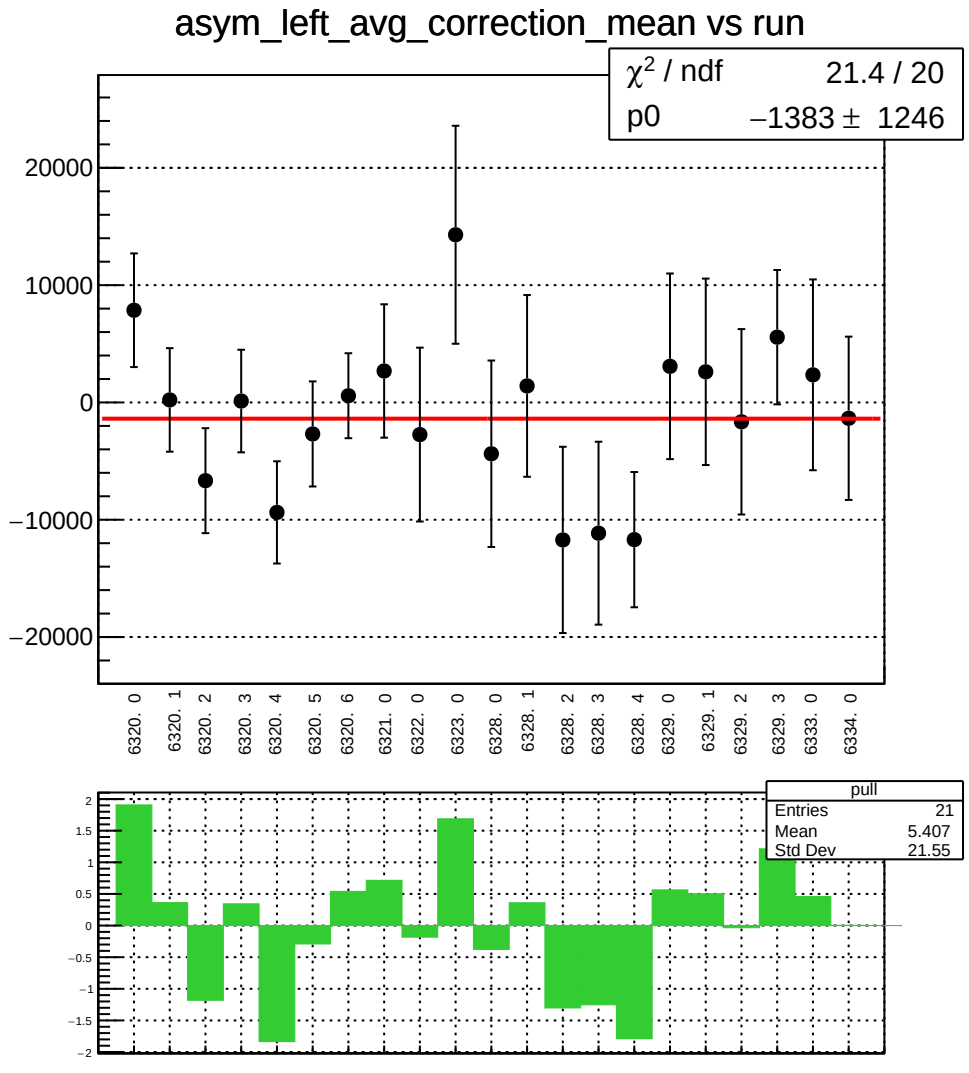

asym_dsr_mean vs run
χ² / ndf 15.99 / 20
p0 −528.3 ± 317.1
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.935
Std Dev 16.27
1.5
1
0.5
0
−0.5
−1
−1.5

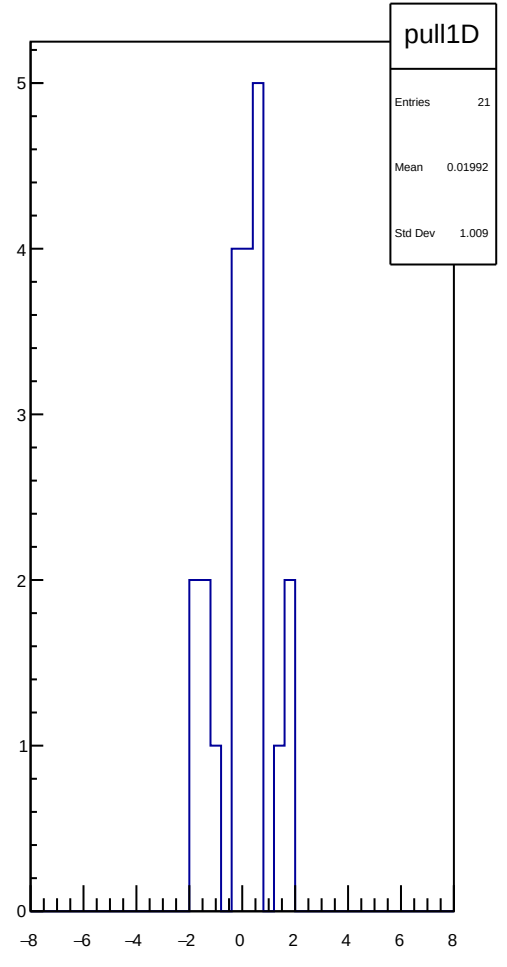

pull1D
Entries 21
Mean −0.03429
Std Dev 0.8719
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

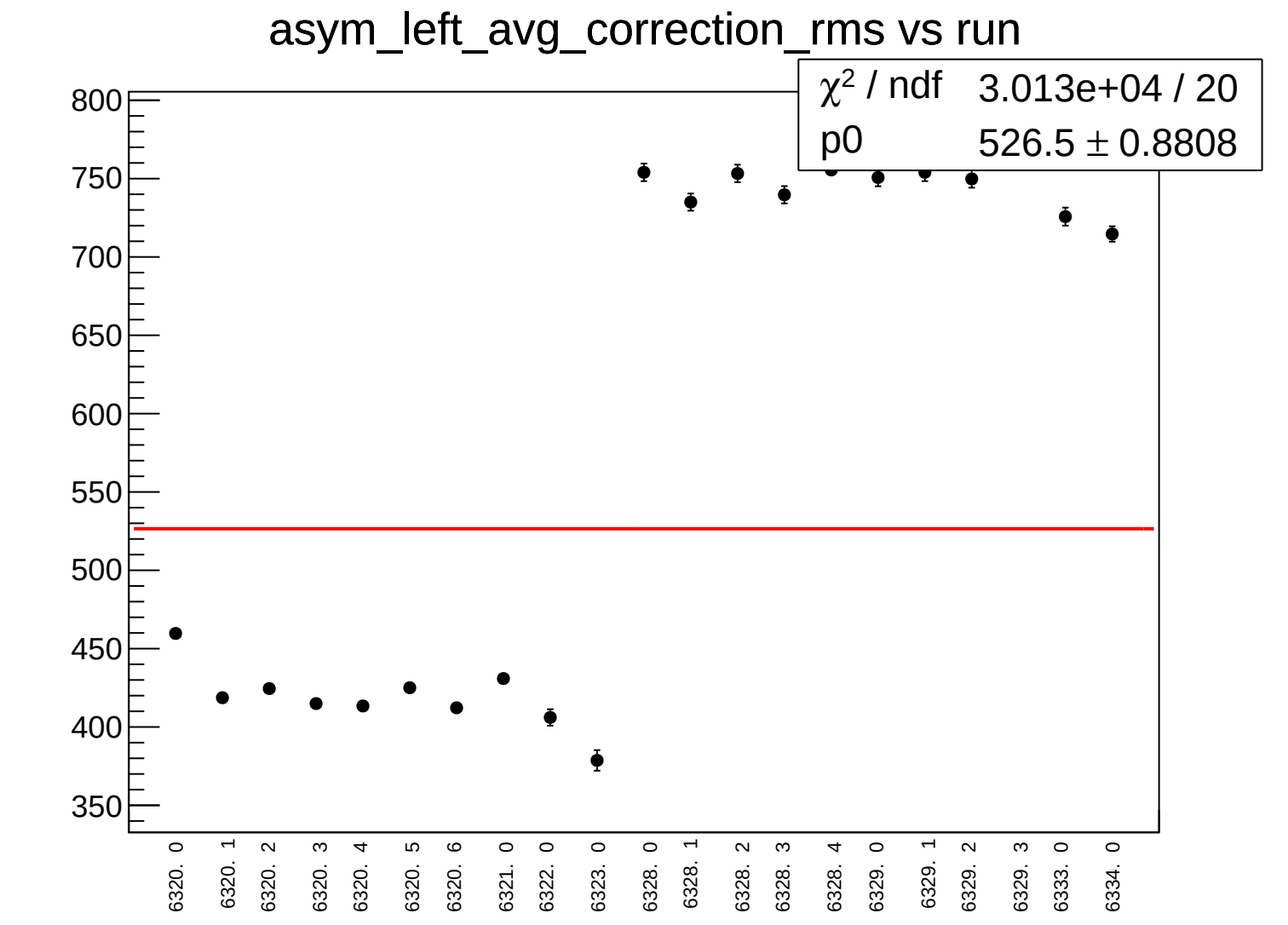

asym_dsr_rms vs run
χ² / ndf 71.13 / 20
p0 139.6 ± 0.2242
144
142
140
138
136
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

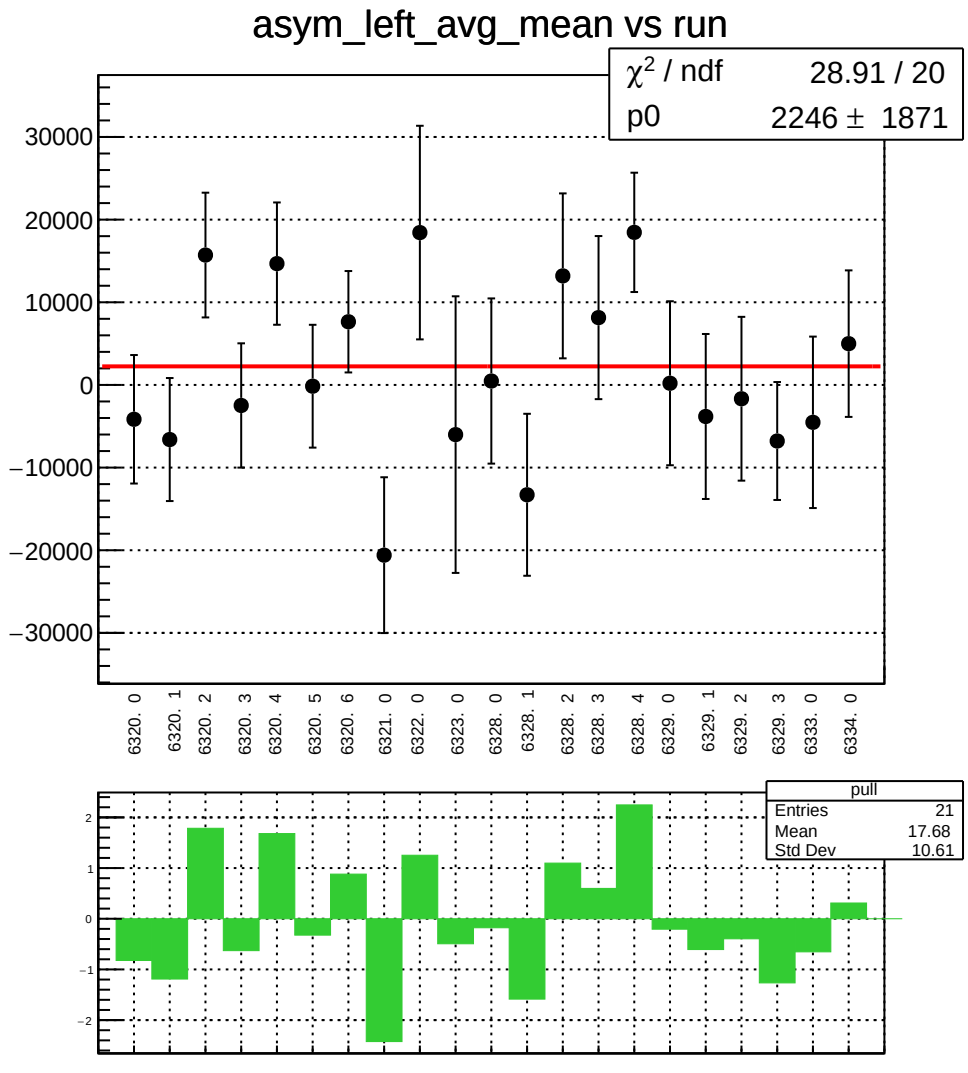

reg_asym_left_avg_mean vs run
χ² / ndf 24.15 / 20
p0 369.3 ± 1295
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.3
Std Dev 30.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.01689
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

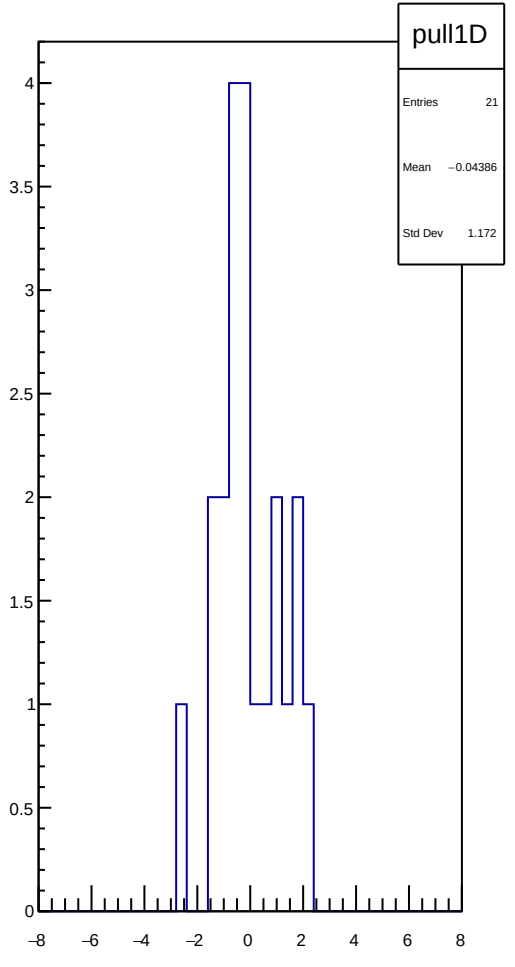

reg_asym_left_avg_rms vs run
χ² / ndf 28.09 / 20
p0 569.9 ± 0.9156
590
585
580
575
570
565
560
555
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

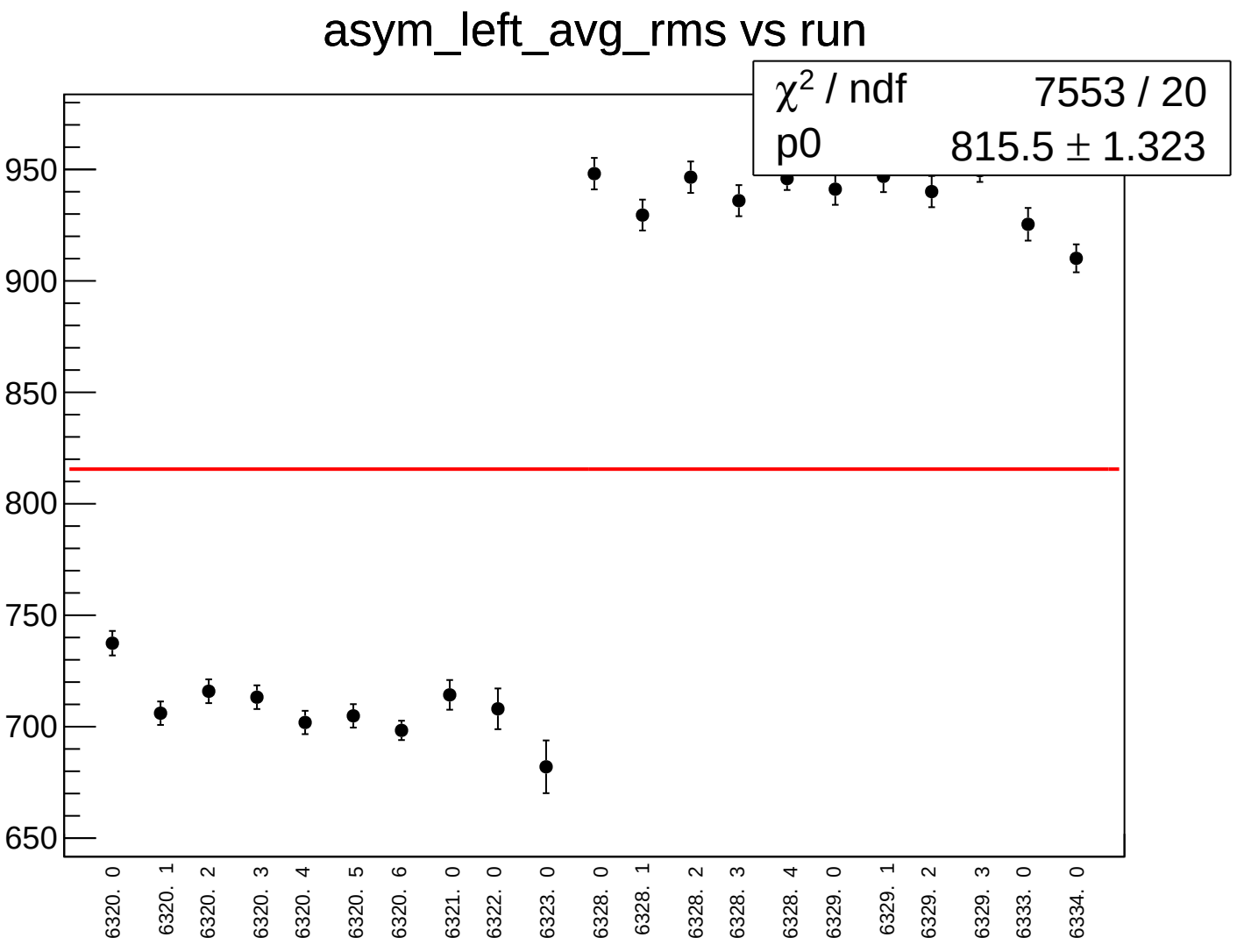

asym_left_avg_correction_mean vs run
χ² / ndf 21.4 / 20
p0 −1383 ± 1246
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.407
Std Dev 21.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

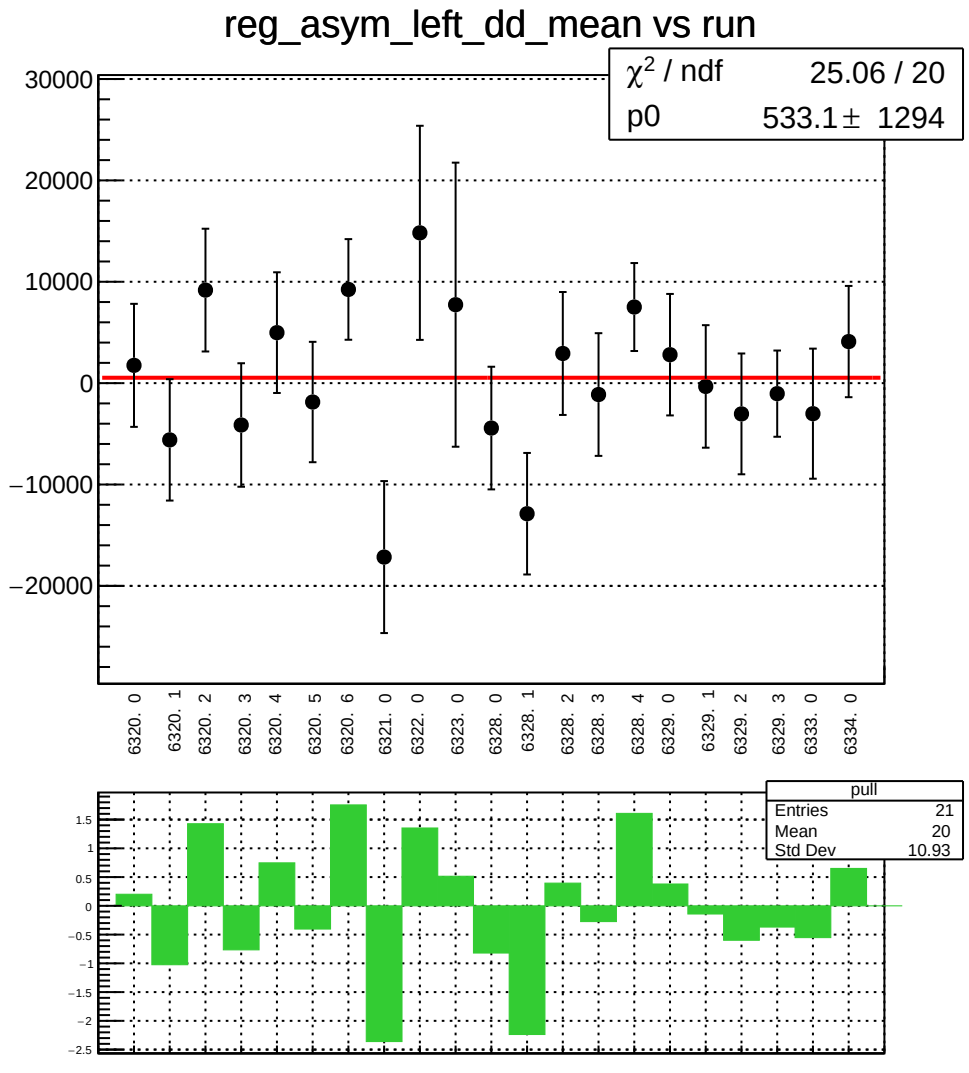

pull1D
Entries 21
Mean 0.01992
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

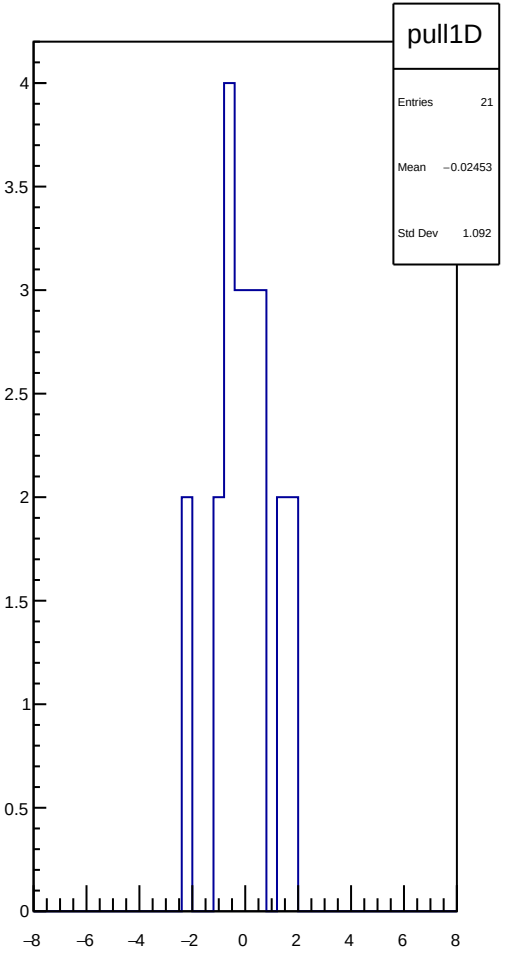

asym_left_avg_correction_rms vs run
χ² / ndf 3.013e+04 / 20
p0 526.5 ± 0.8808
800
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

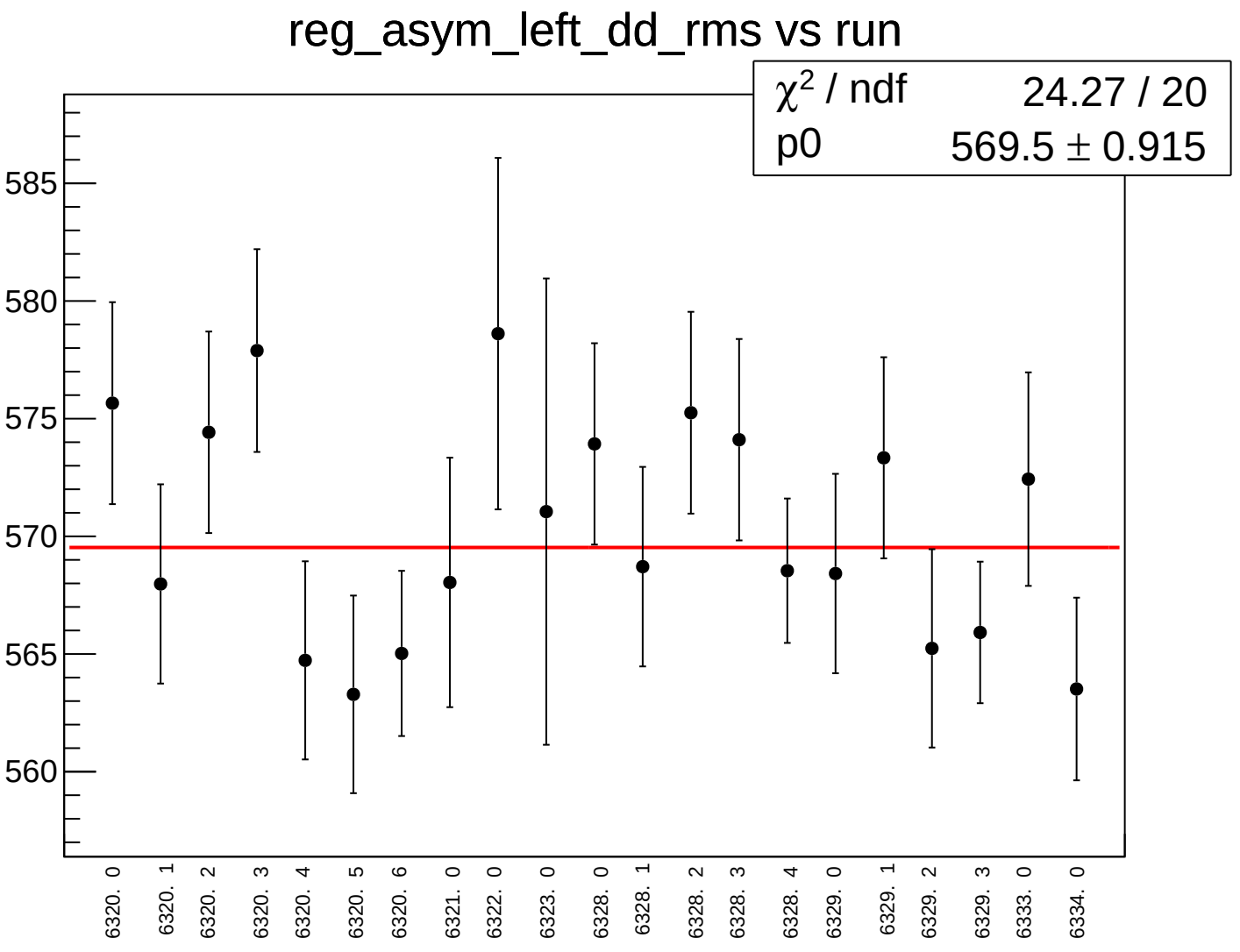

asym_left_avg_mean vs run
χ² / ndf 28.91 / 20
p0 2246 ± 1871
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.68
Std Dev 10.61
2
1
0
−1
−2

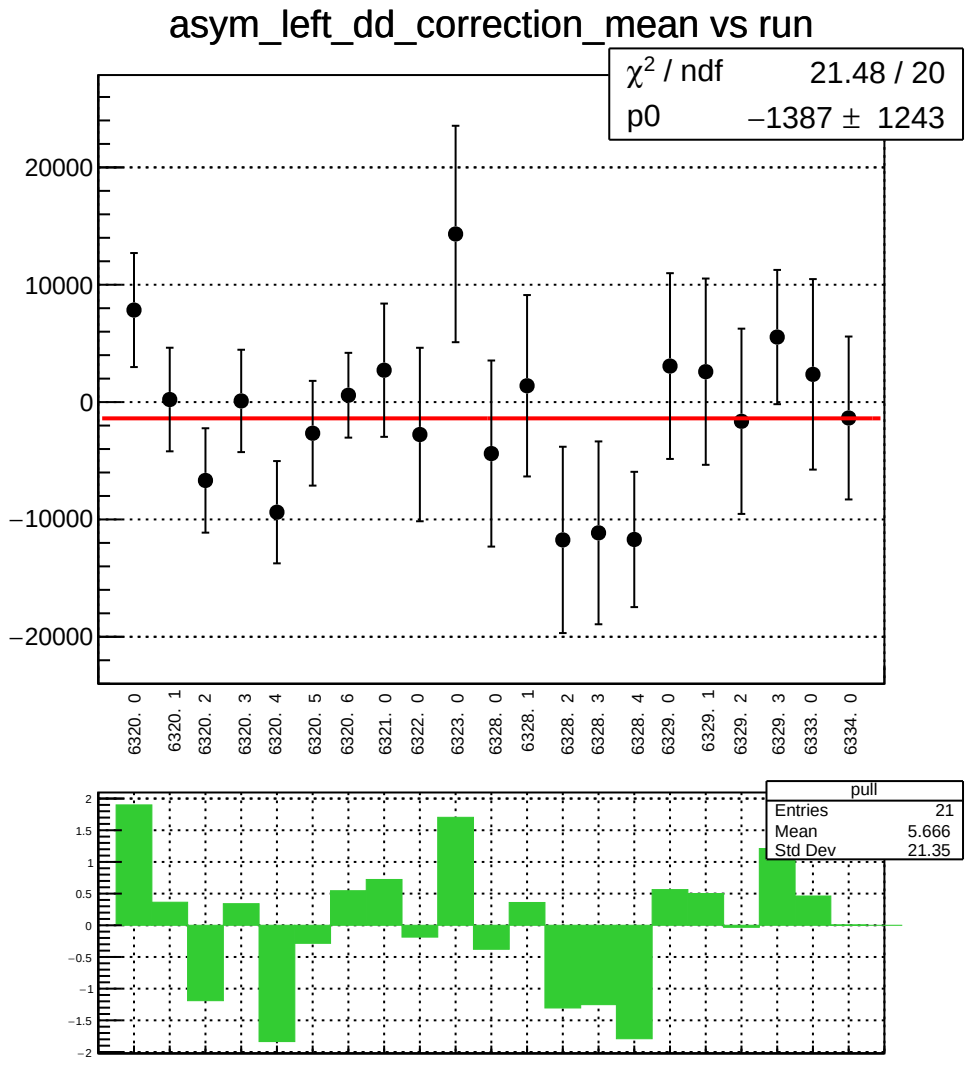

pull1D
Entries 21
Mean −0.04386
Std Dev 1.172
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

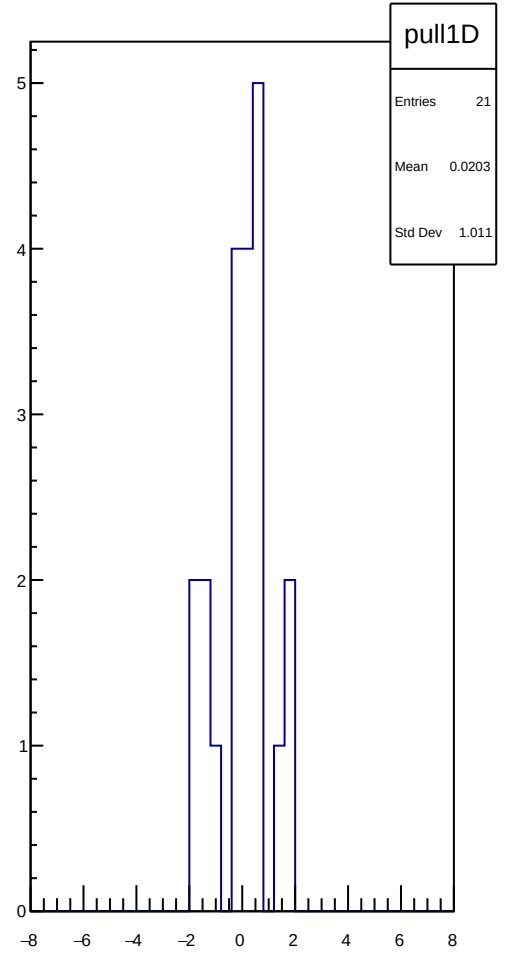

asym_left_avg_rms vs run
χ² / ndf 7553 / 20
p0 815.5 ± 1.323
950
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

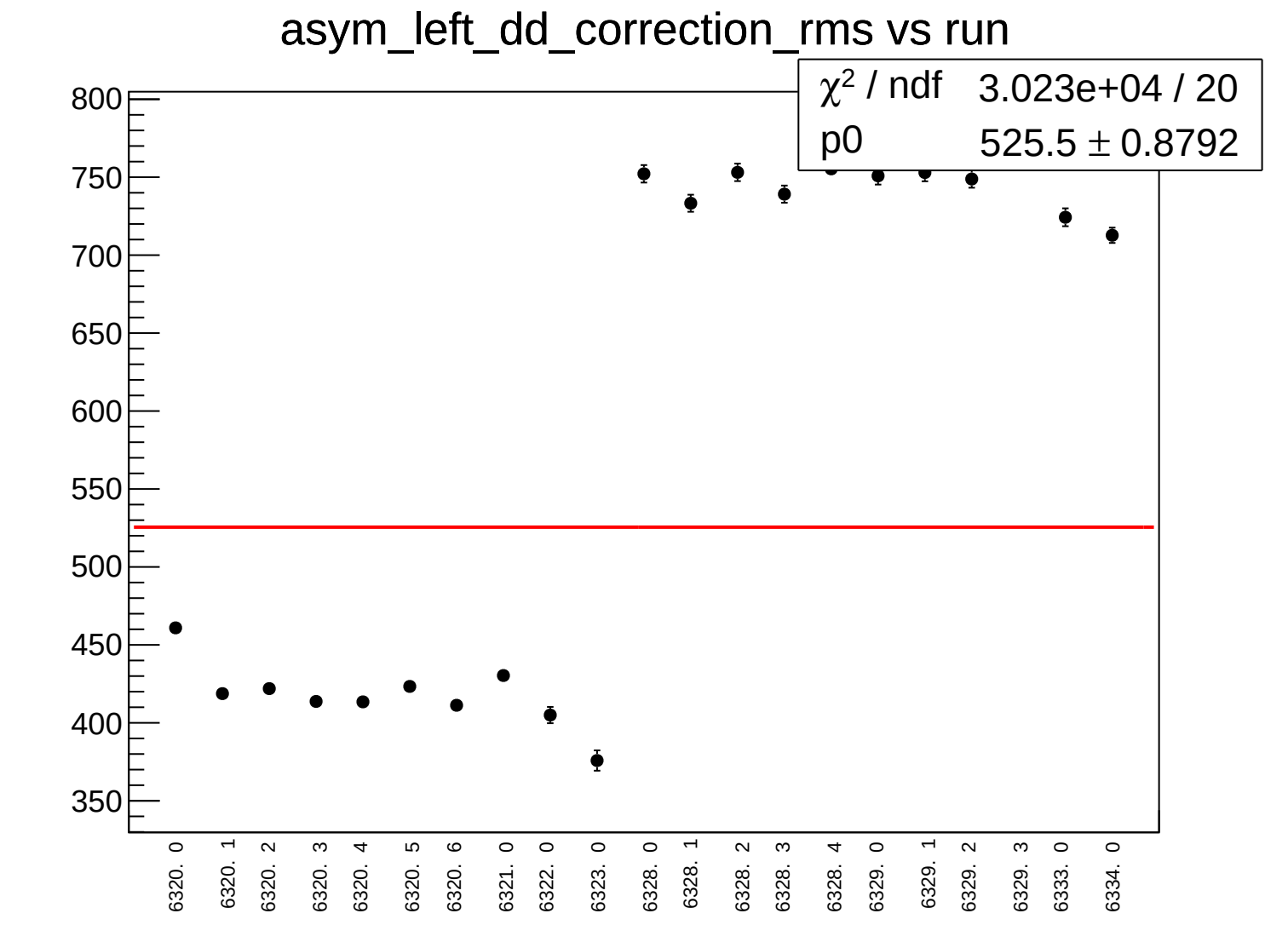

reg_asym_left_dd_mean vs run
χ² / ndf 25.06 / 20
p0 533.1 ± 1294
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 20
Std Dev 10.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

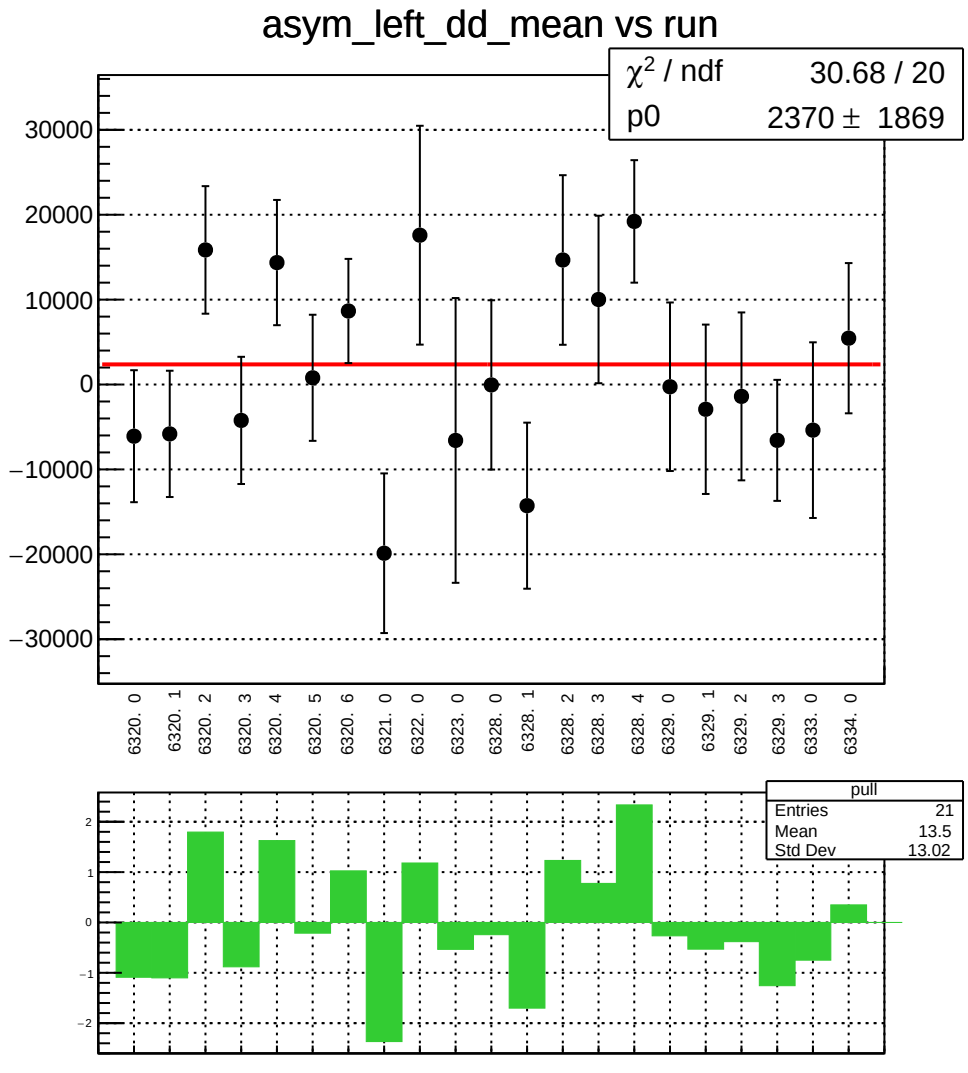

pull1D
Entries 21
Mean −0.02453
Std Dev 1.092
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

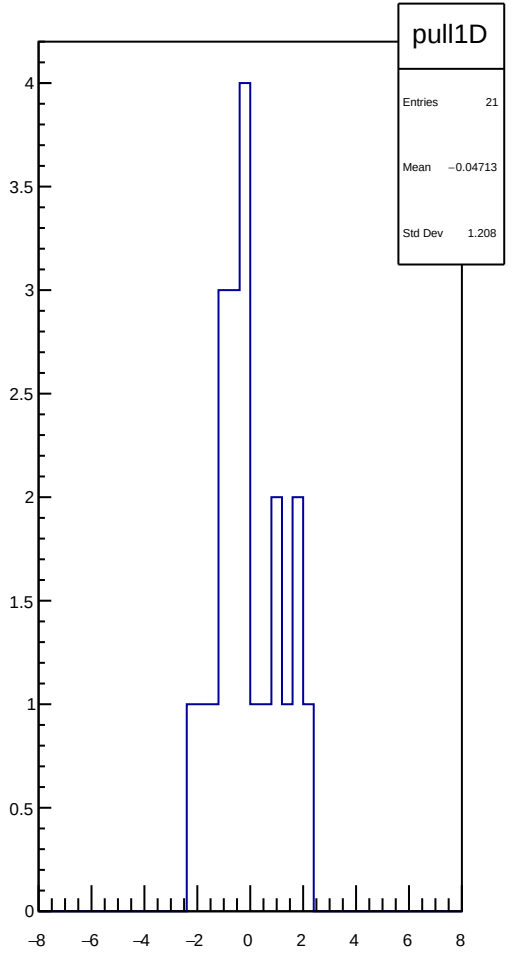

reg_asym_left_dd_rms vs run
χ² / ndf 24.27 / 20
p0 569.5 ± 0.915
585
580
575
570
565
560
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

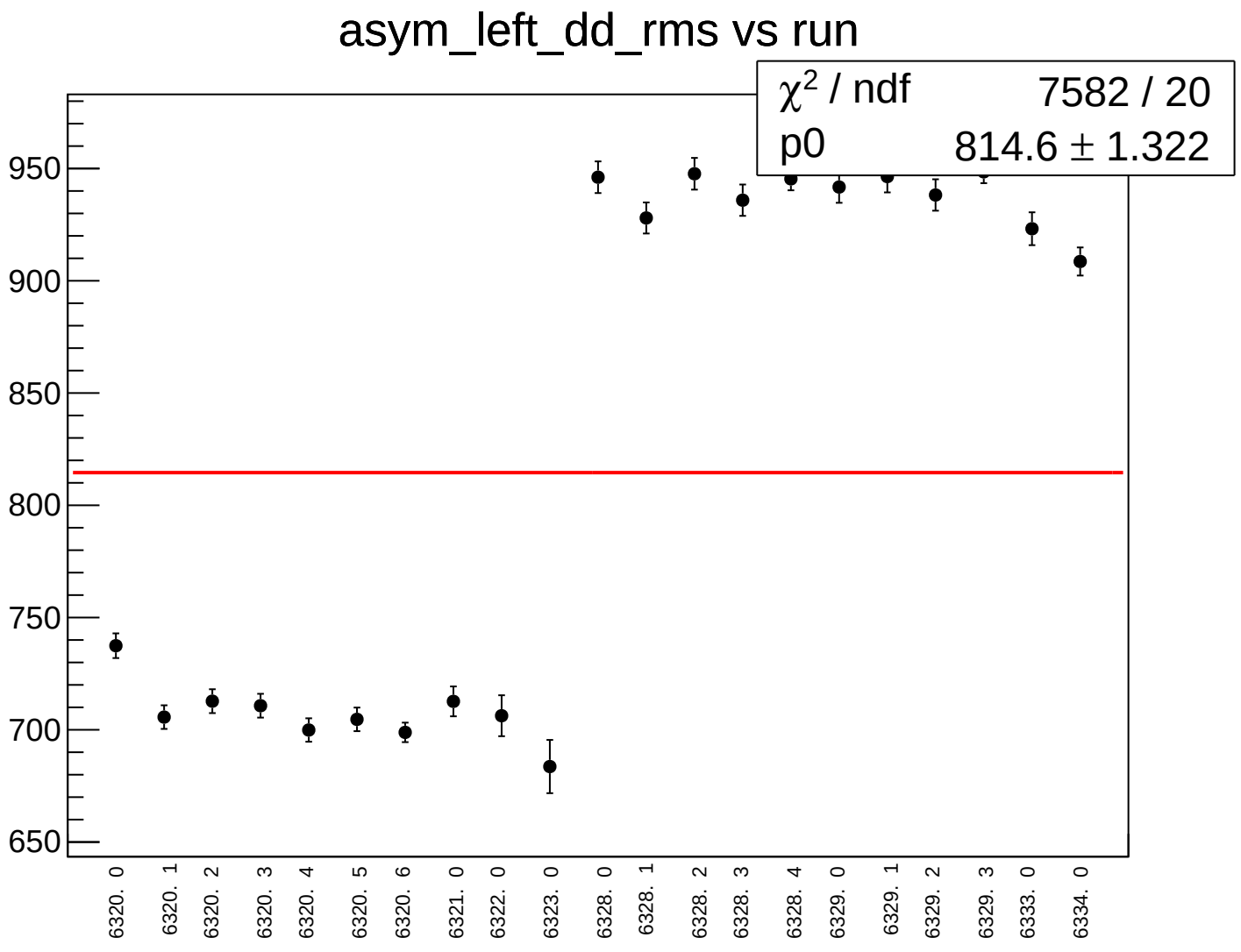

asym_left_dd_correction_mean vs run
χ² / ndf 21.48 / 20
p0 −1387 ± 1243
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.666
Std Dev 21.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

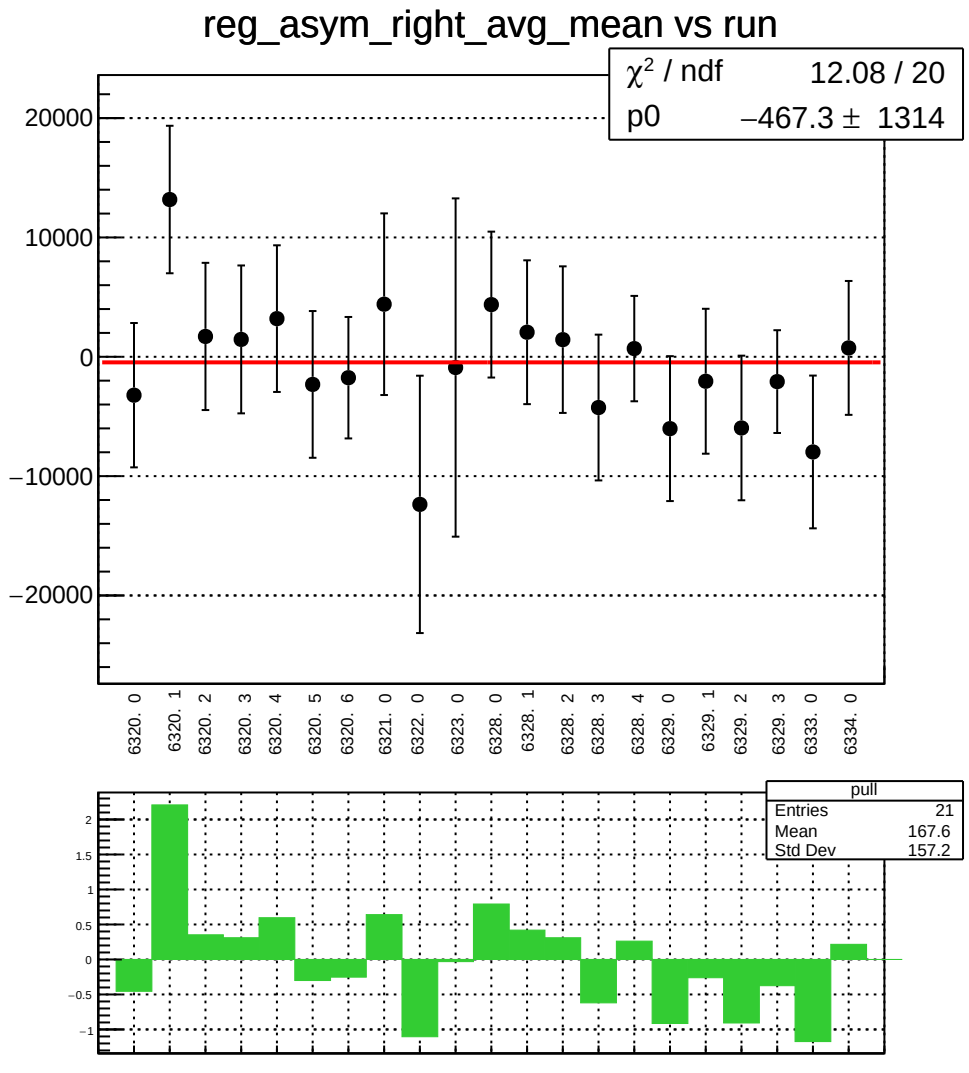

pull1D
Entries 21
Mean 0.0203
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

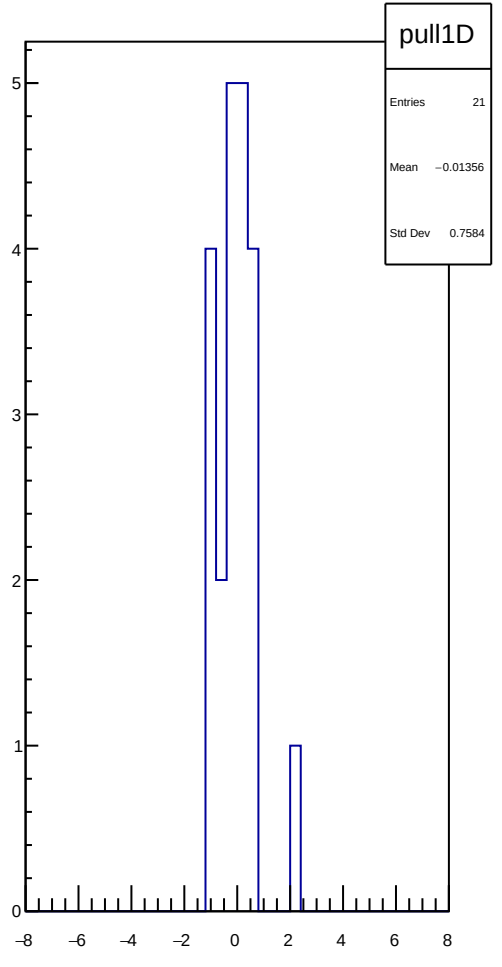

asym_left_dd_correction_rms vs run
χ² / ndf 3.023e+04 / 20
p0 525.5 ± 0.8792
800
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

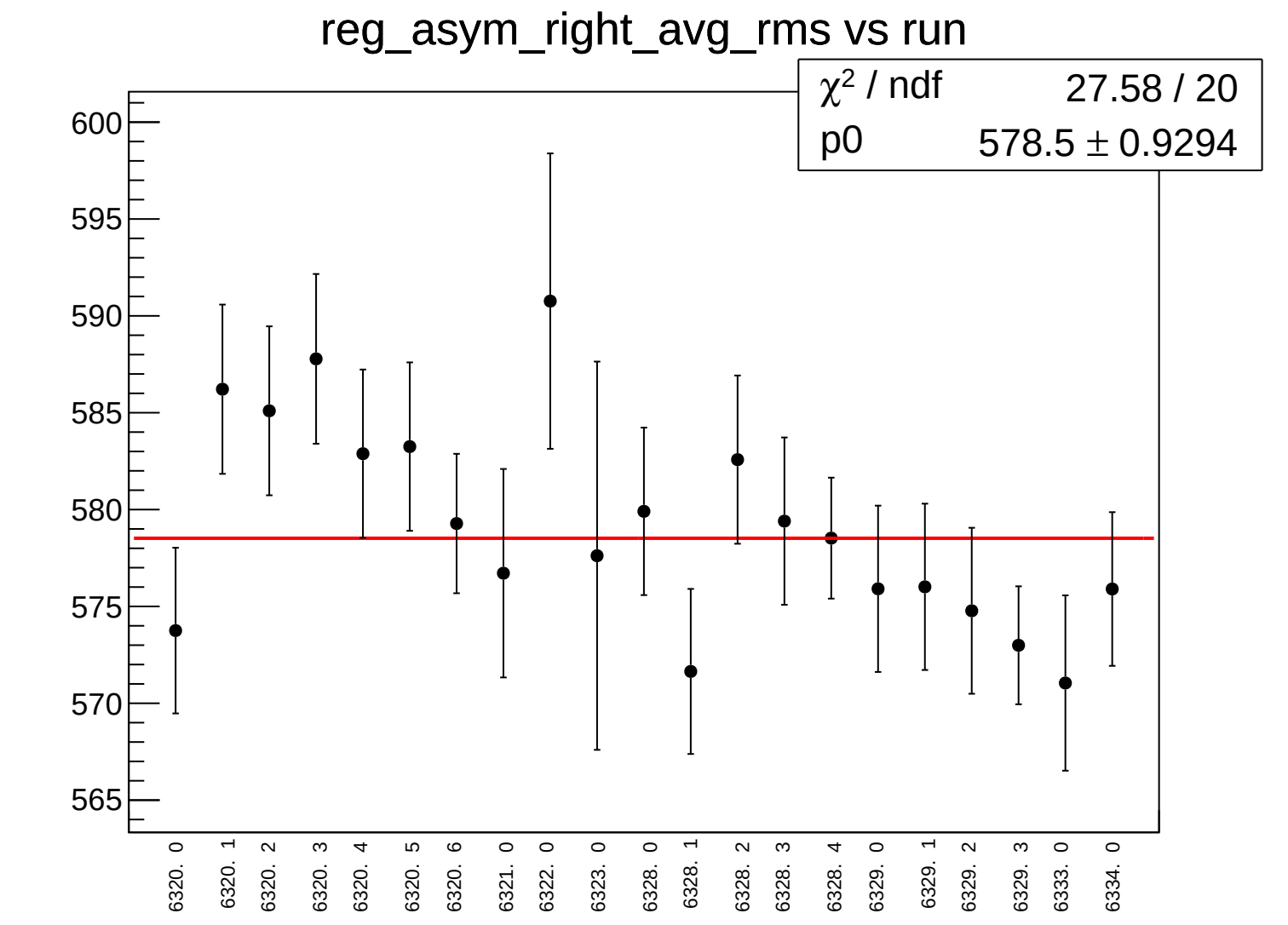

asym_left_dd_mean vs run
χ² / ndf 30.68 / 20
p0 2370 ± 1869
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.5
Std Dev 13.02
2
1
0
−1
−2

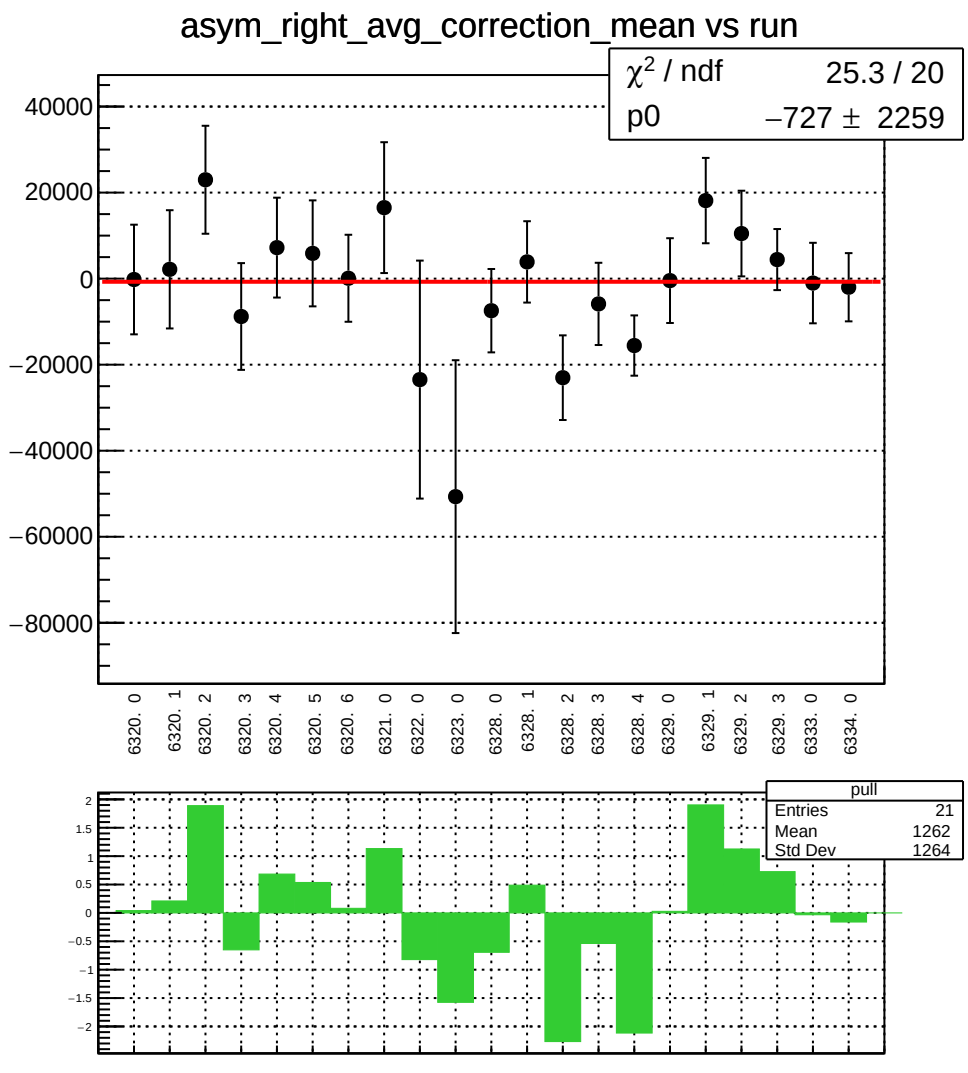

pull1D
Entries 21
Mean −0.04713
Std Dev 1.208
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

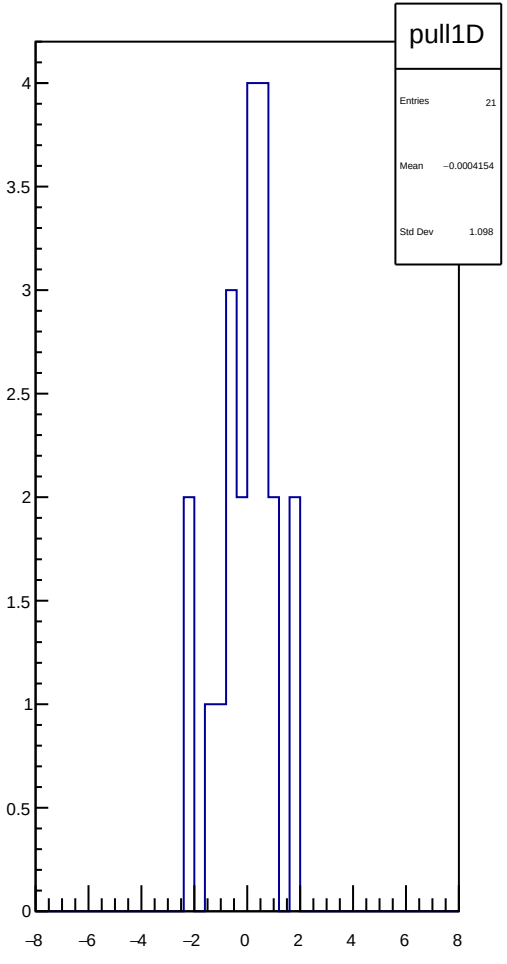

asym_left_dd_rms vs run
χ² / ndf 7582 / 20
p0 814.6 ± 1.322
950
900
850
800
750
700
650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

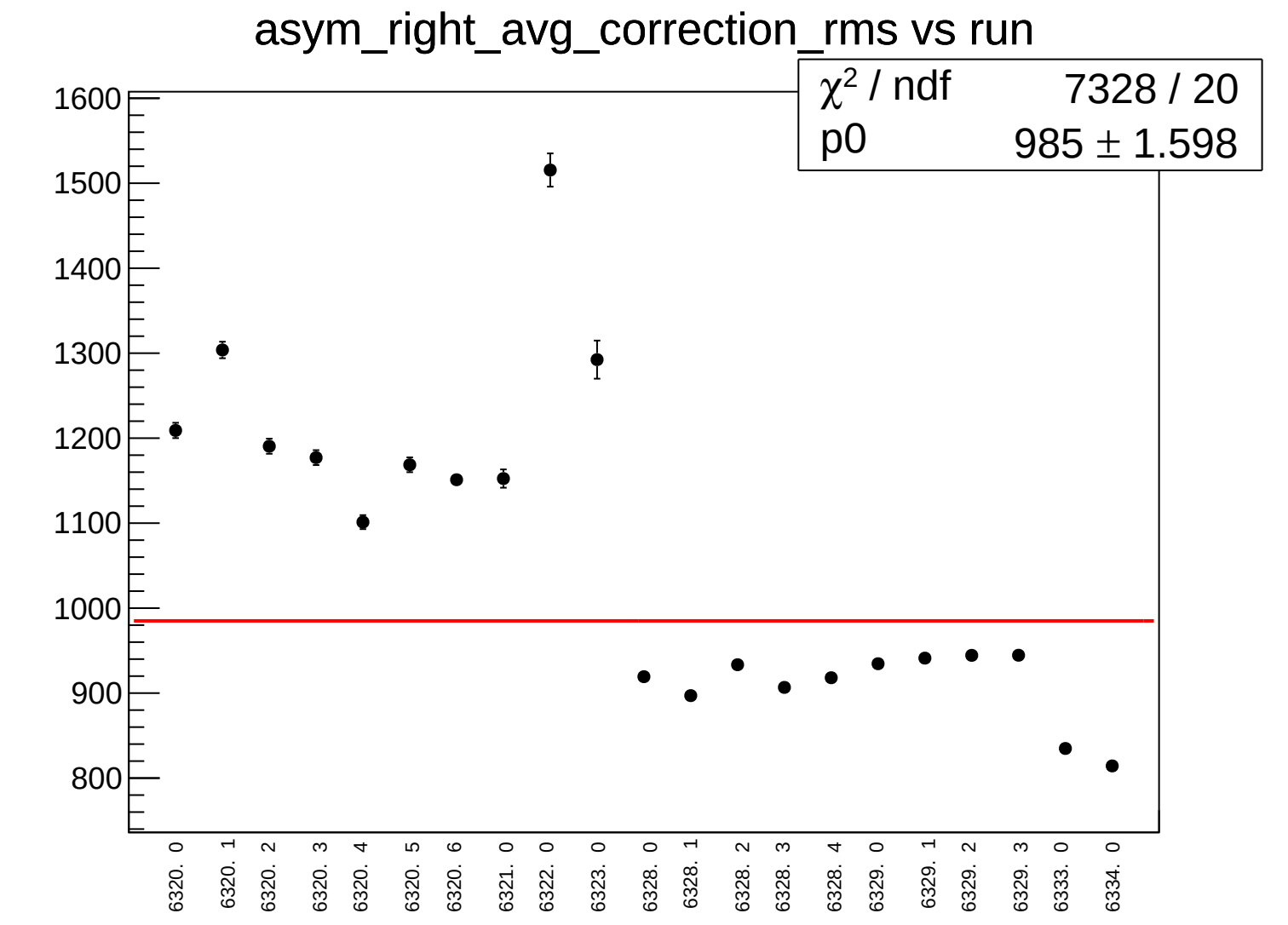

reg_asym_right_avg_mean vs run
χ² / ndf 12.08 / 20
p0 −467.3 ± 1314
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 167.6
Std Dev 157.2
2
1.5
1
0.5
0
−0.5
−1

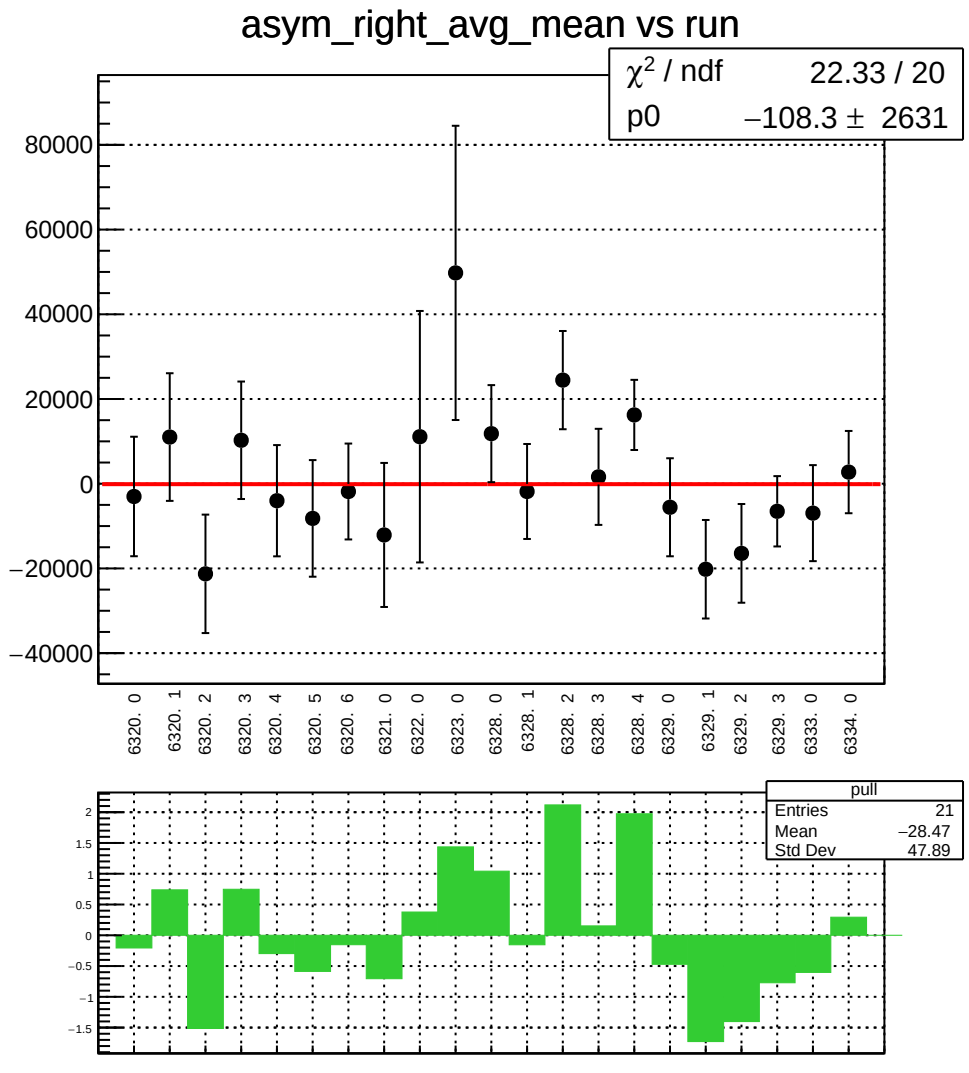

pull1D
Entries 21
Mean −0.01356
Std Dev 0.7584
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

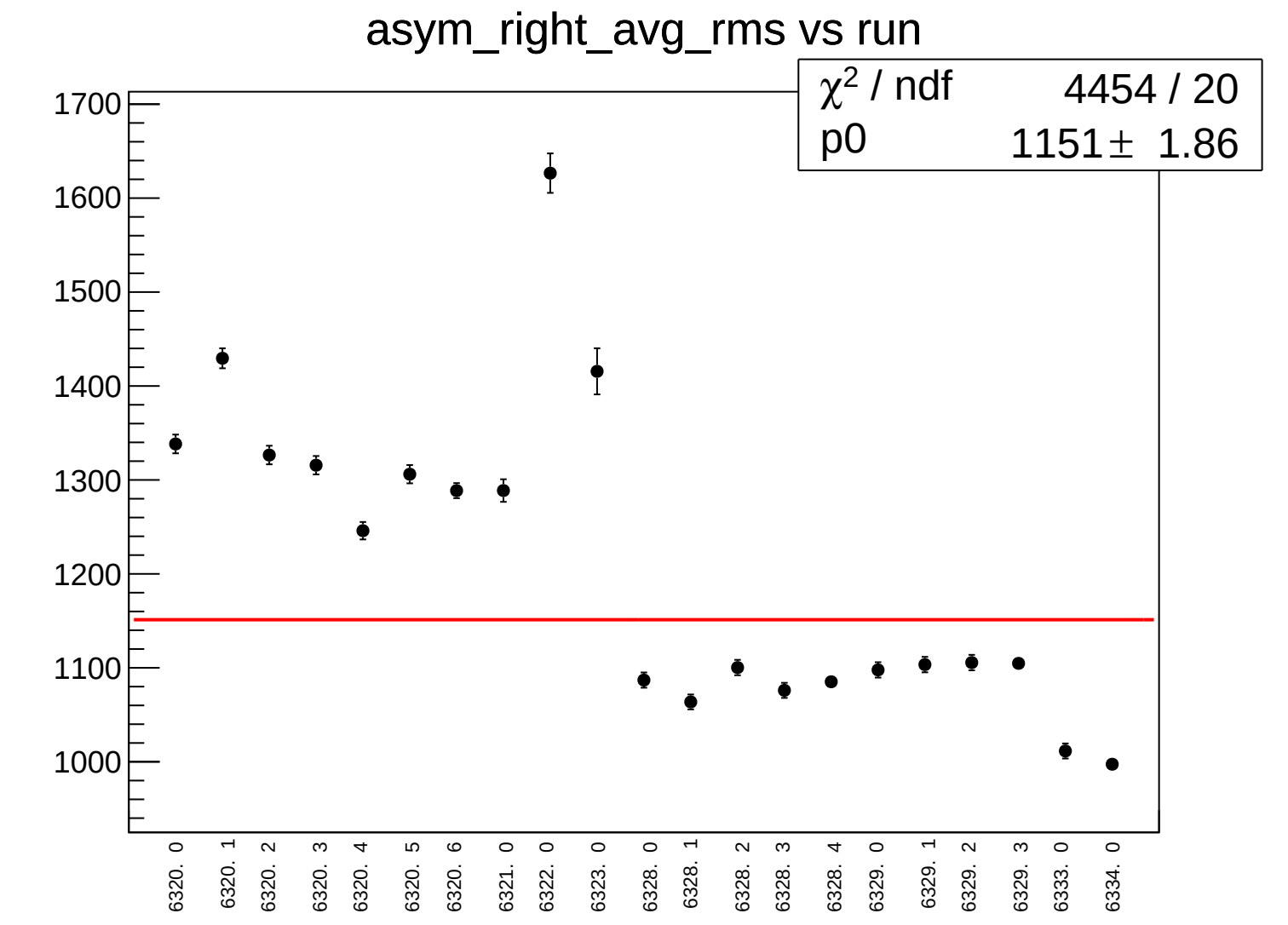

reg_asym_right_avg_rms vs run
χ² / ndf 27.58 / 20
p0 578.5 ± 0.9294
600
595
590
585
580
575
570
565
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

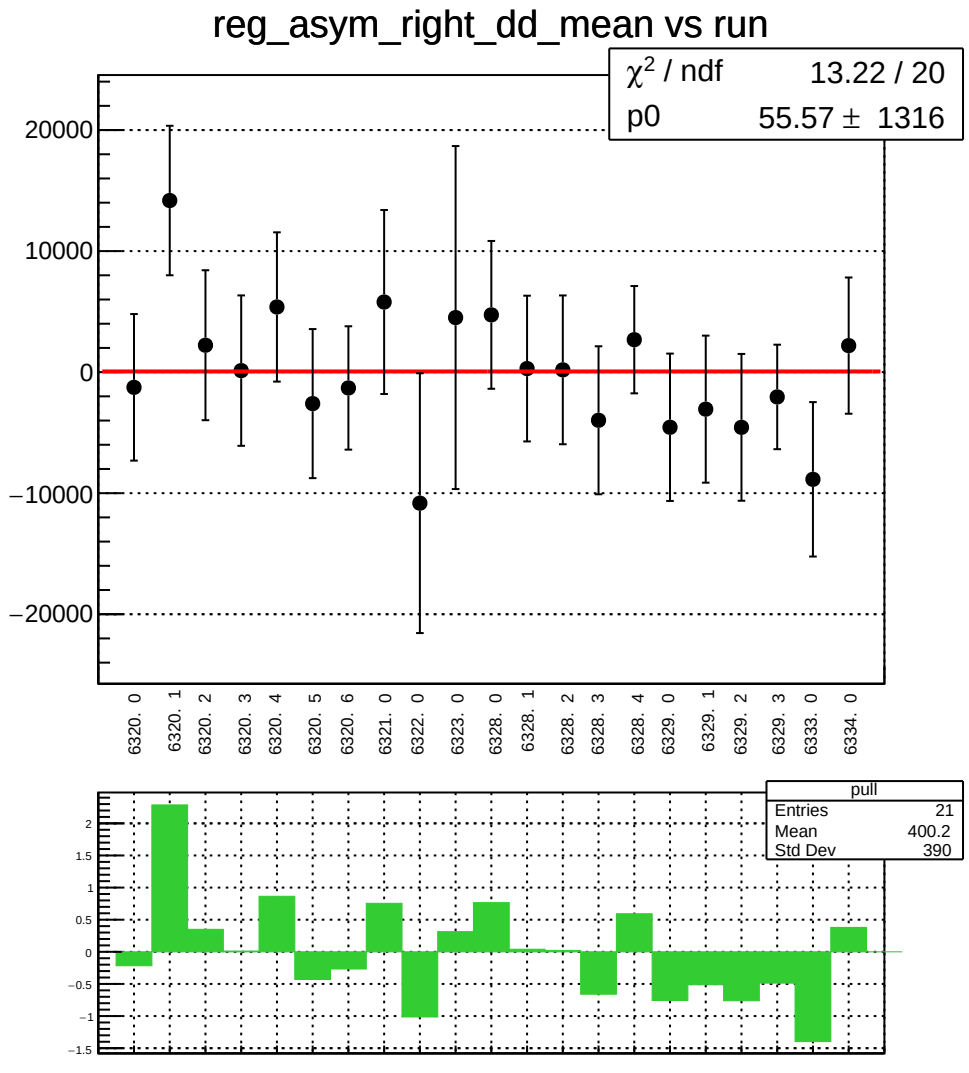

asym_right_avg_correction_mean vs run
χ² / ndf 25.3 / 20
p0 −727 ± 2259
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1262
Std Dev 1264
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

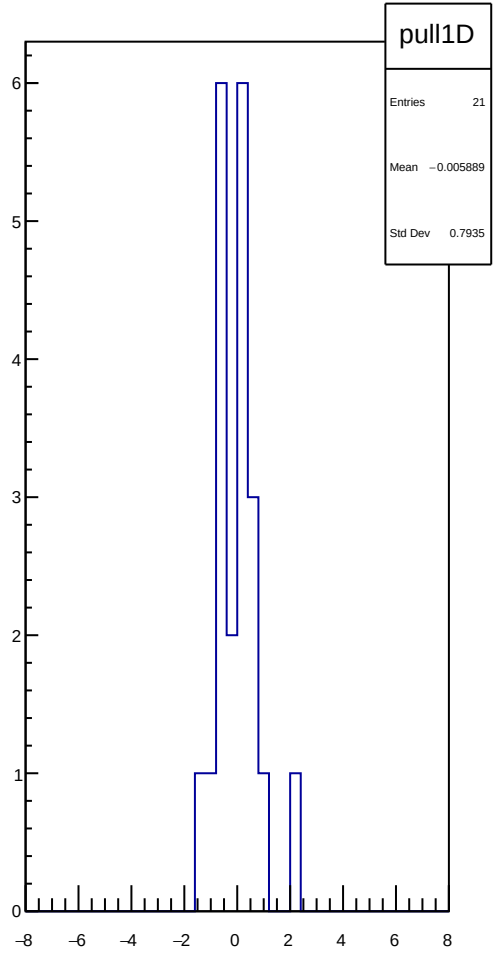

pull1D
Entries 21
Mean −0.0004154
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

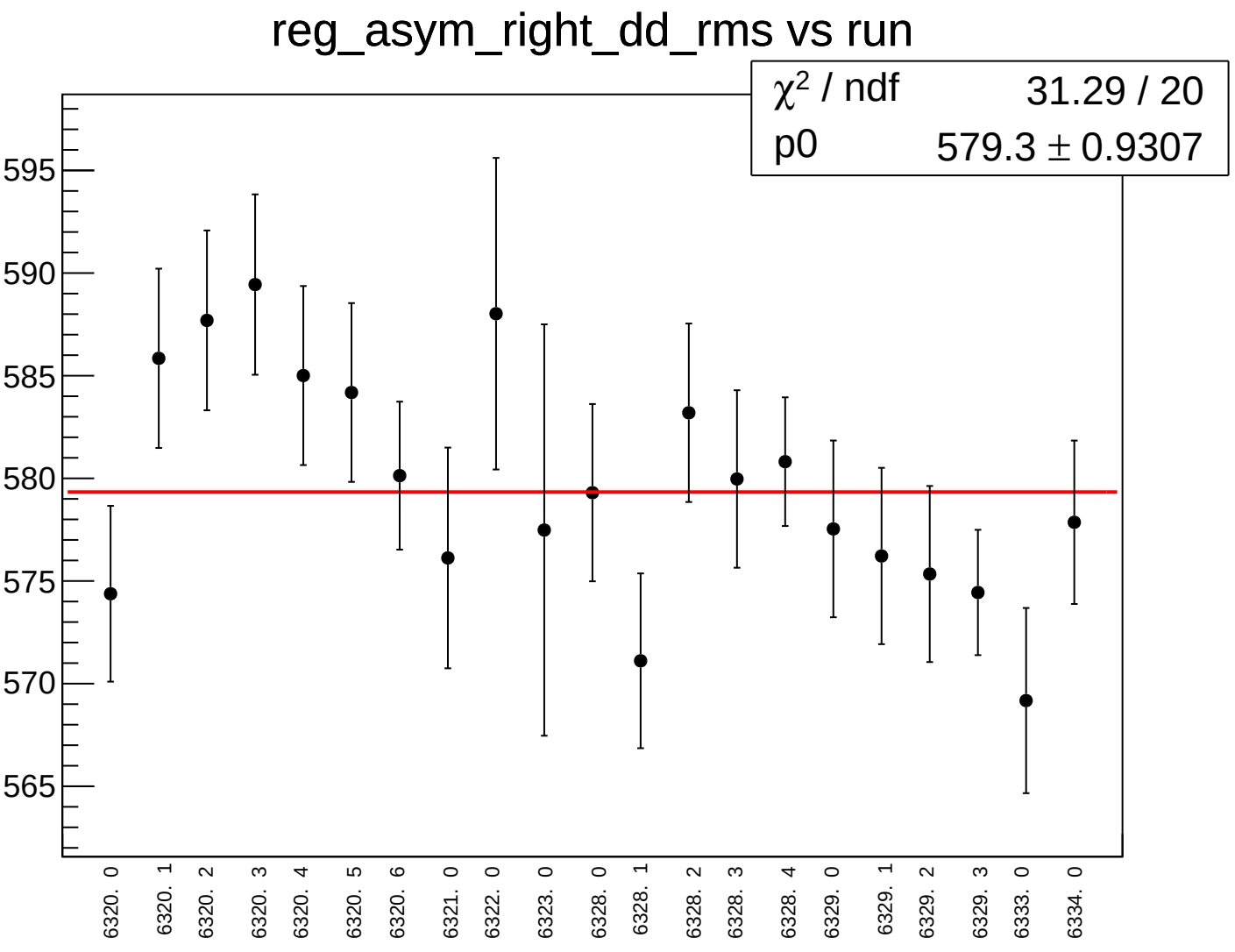

asym_right_avg_correction_rms vs run
χ² / ndf 7328 / 20
p0 985 ± 1.598
1600
1500
1400
1300
1200
1100
1000
900
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

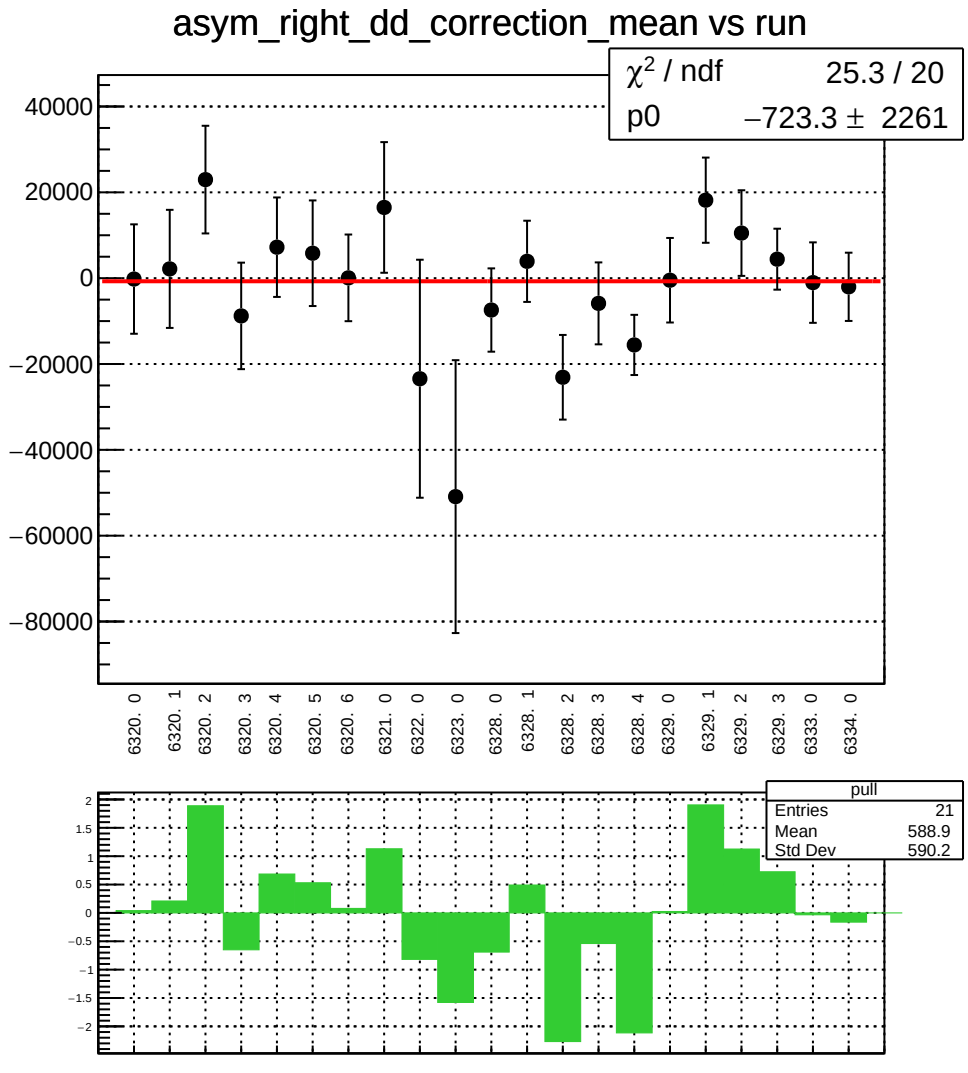

asym_right_avg_mean vs run
χ² / ndf 22.33 / 20
p0 −108.3 ± 2631
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.47
Std Dev 47.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01369
Std Dev 1.031
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

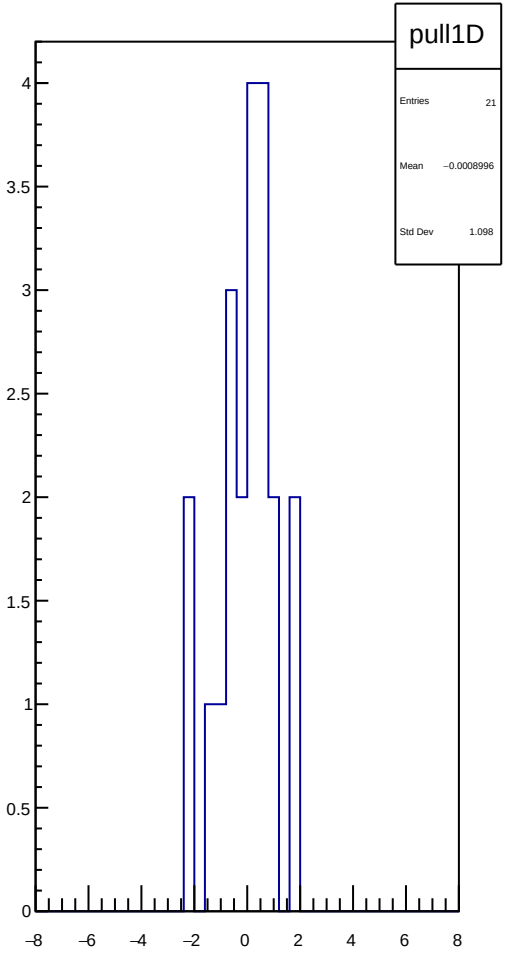

asym_right_avg_rms vs run
χ² / ndf 4454 / 20
p0 1151 ± 1.86
1700
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

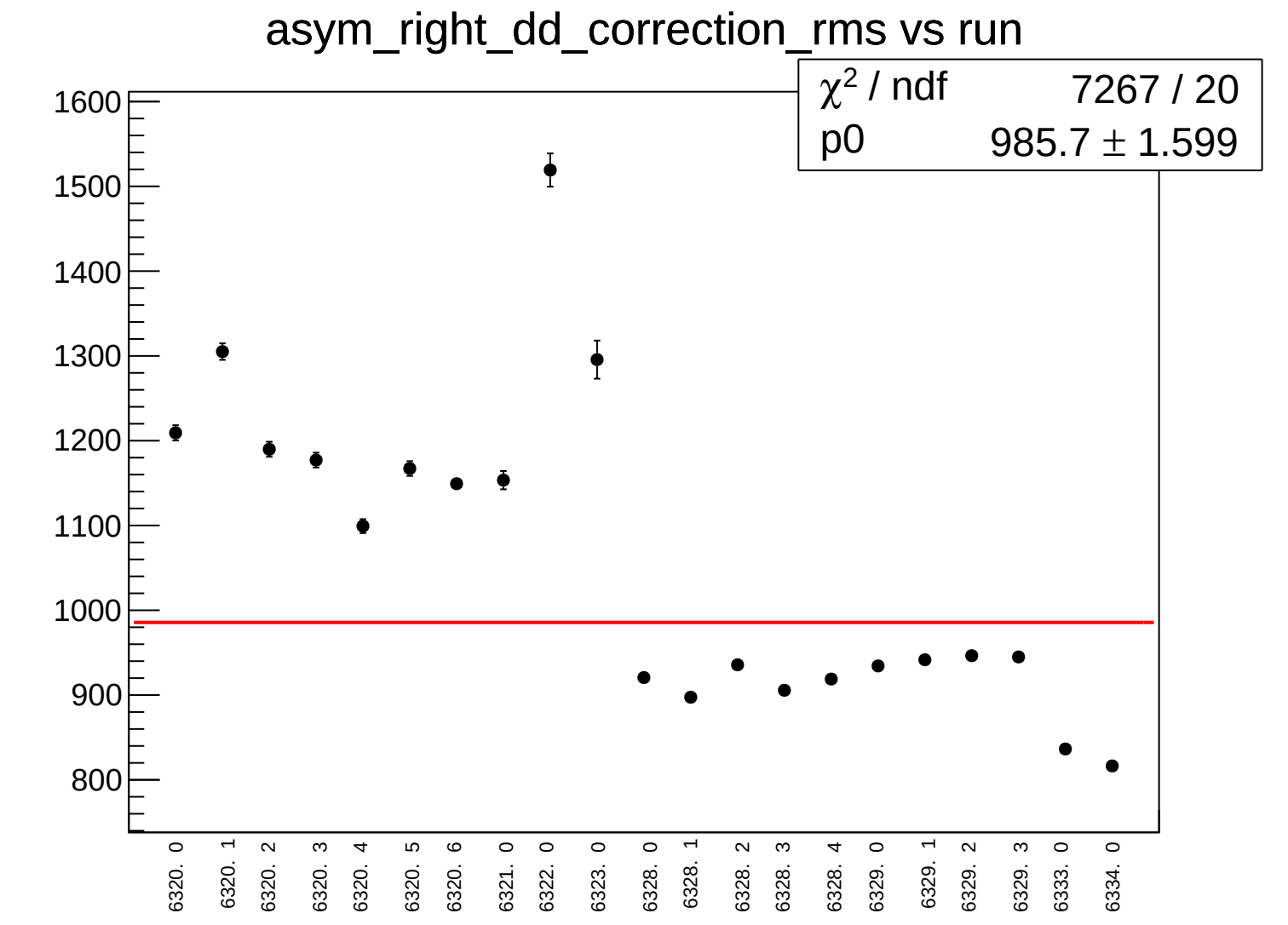

reg_asym_right_dd_mean vs run
χ² / ndf 13.22 / 20
p0 55.57 ± 1316
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 400.2
Std Dev 390
2
1.5
1
0.5
0
−0.5
−1
−1.5

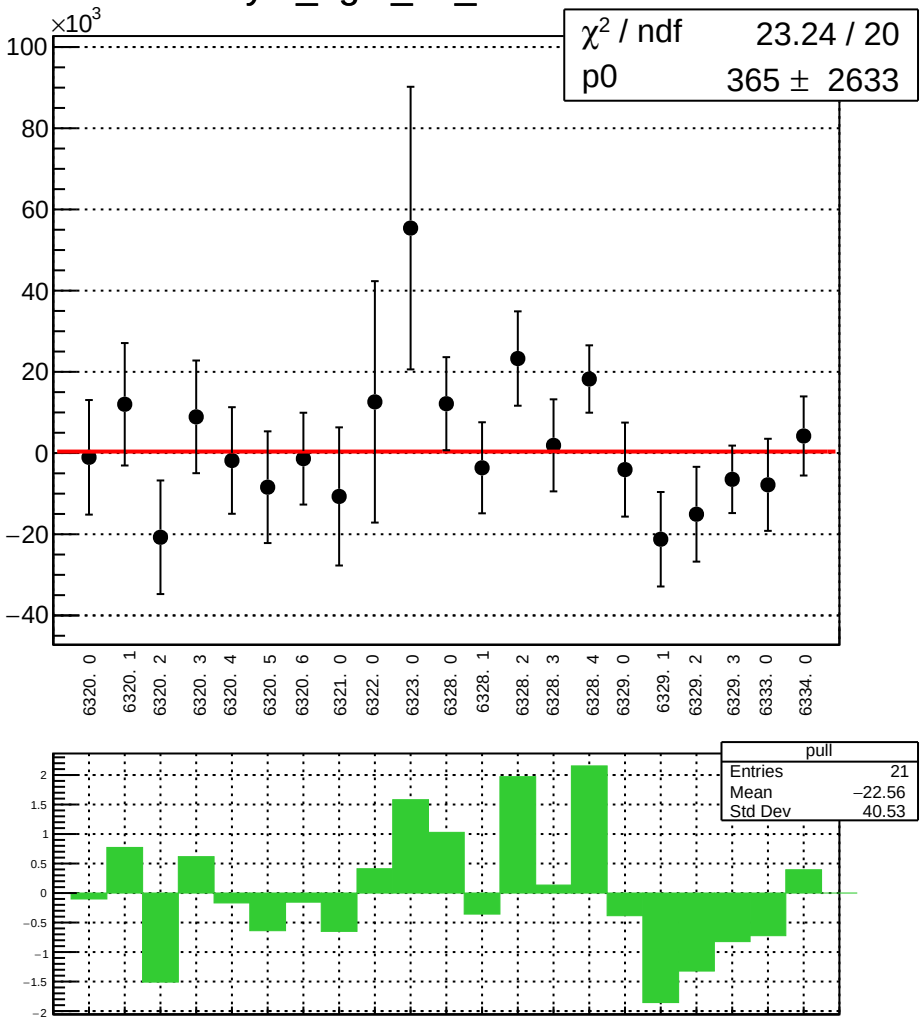

pull1D
Entries 21
Mean −0.005889
Std Dev 0.7935
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

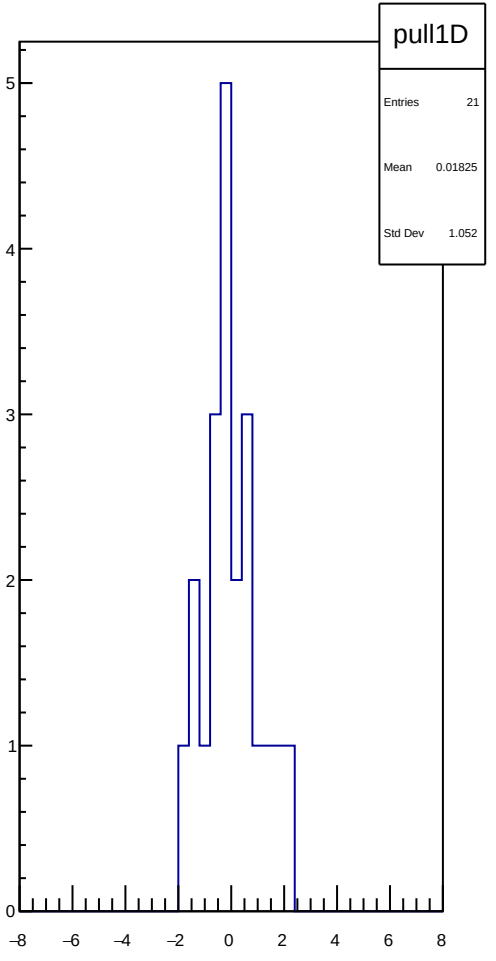

reg_asym_right_dd_rms vs run
χ² / ndf 31.29 / 20
p0 579.3 ± 0.9307
595
590
585
580
575
570
565
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

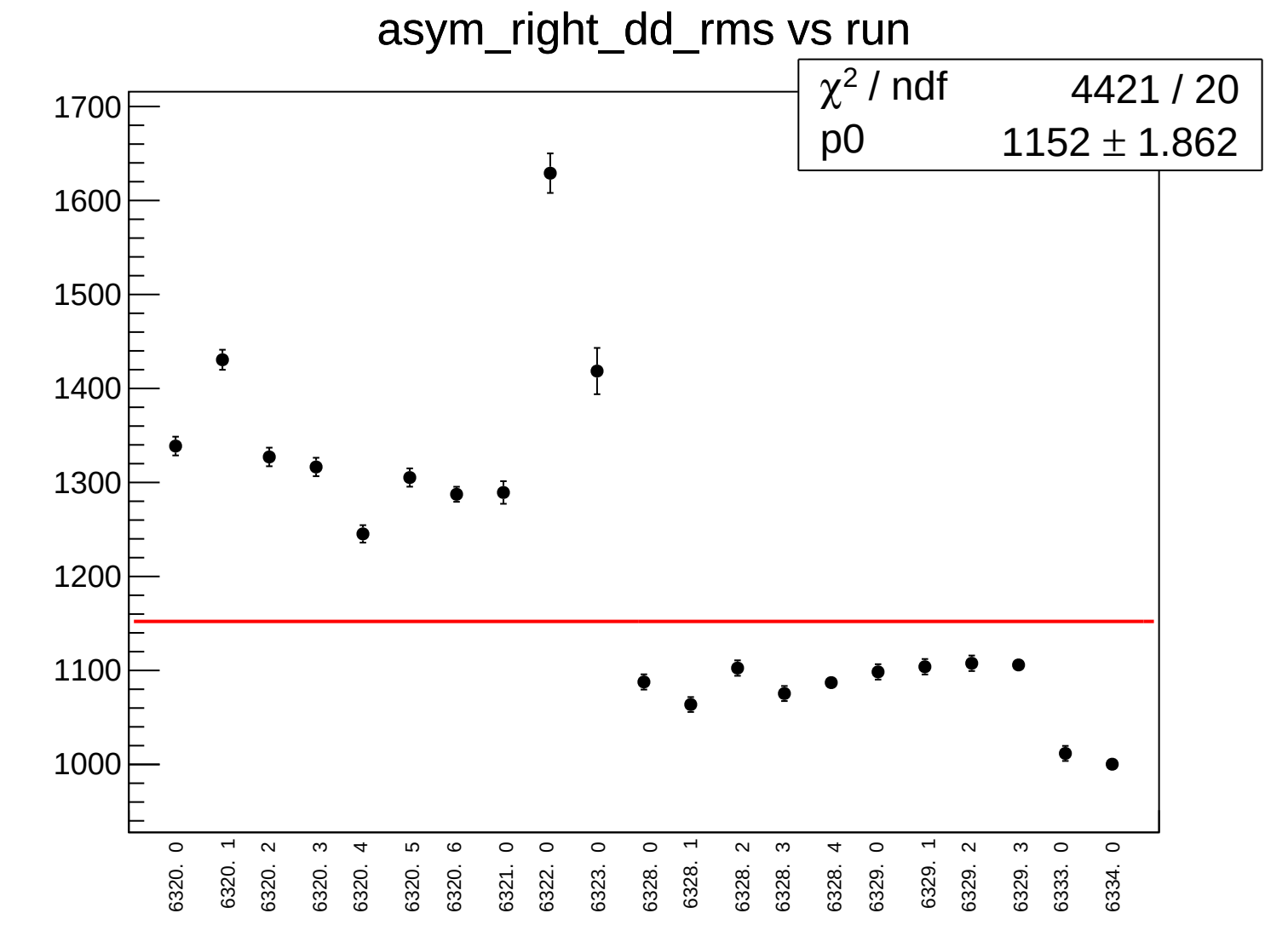

asym_right_dd_correction_mean vs run
χ² / ndf 25.3 / 20
p0 −723.3 ± 2261
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 588.9
Std Dev 590.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

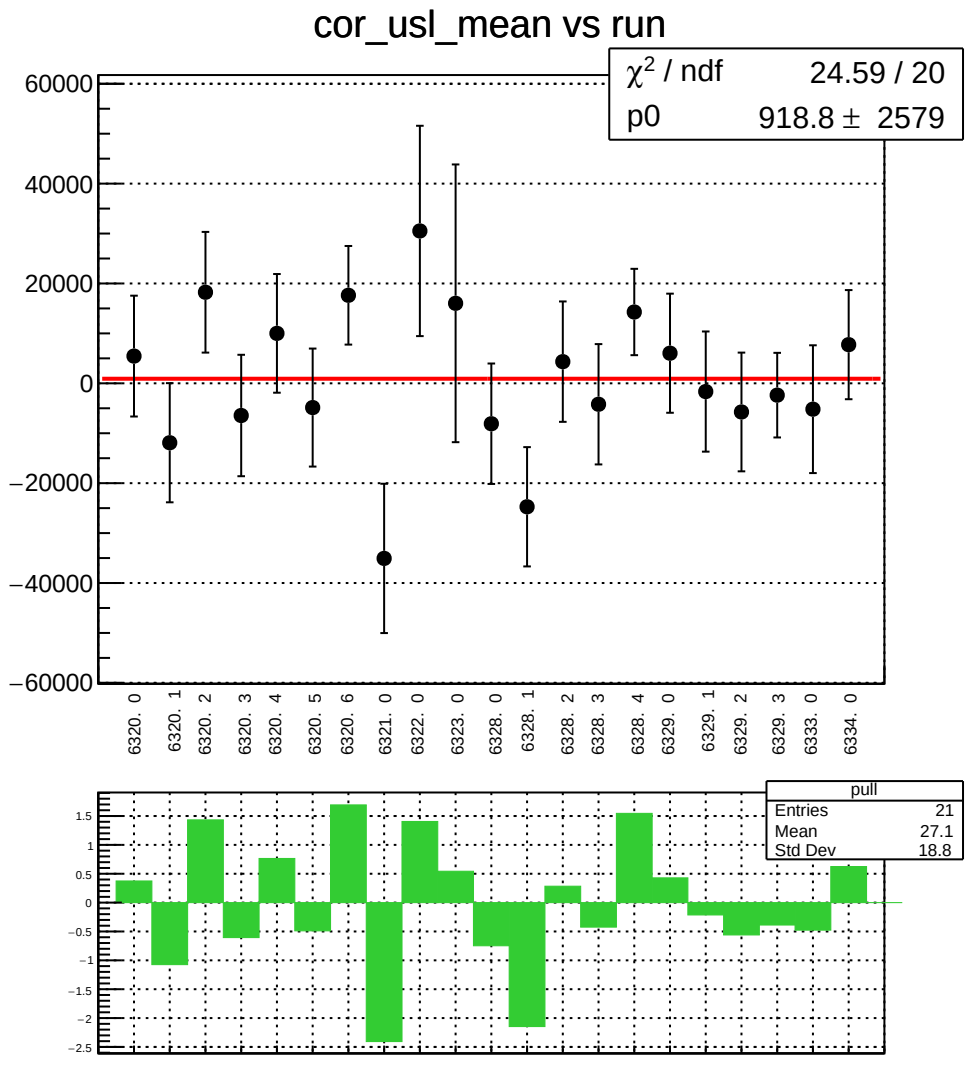

pull1D
Entries 21
Mean −0.0008996
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

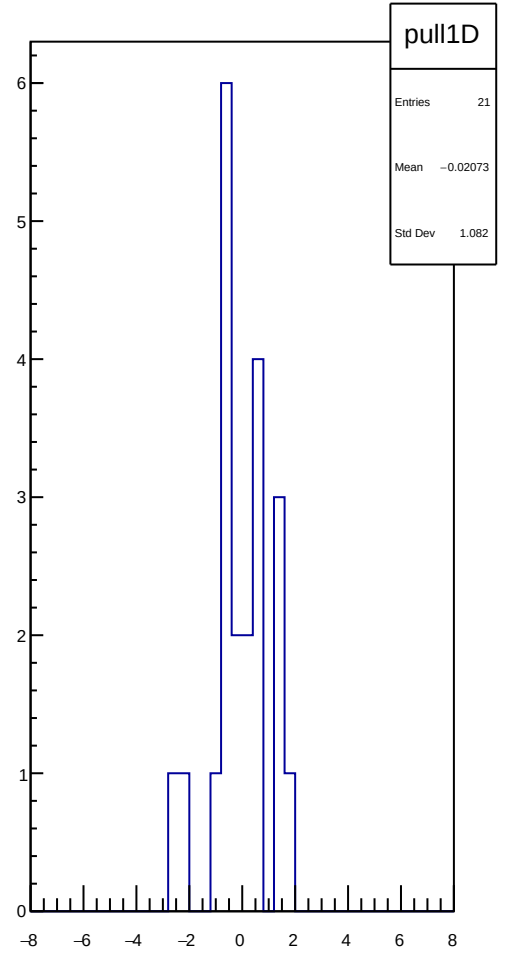

asym_right_dd_correction_rms vs run
χ² / ndf 7267 / 20
p0 985.7 ± 1.599
1600
1500
1400
1300
1200
1100
1000
900
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

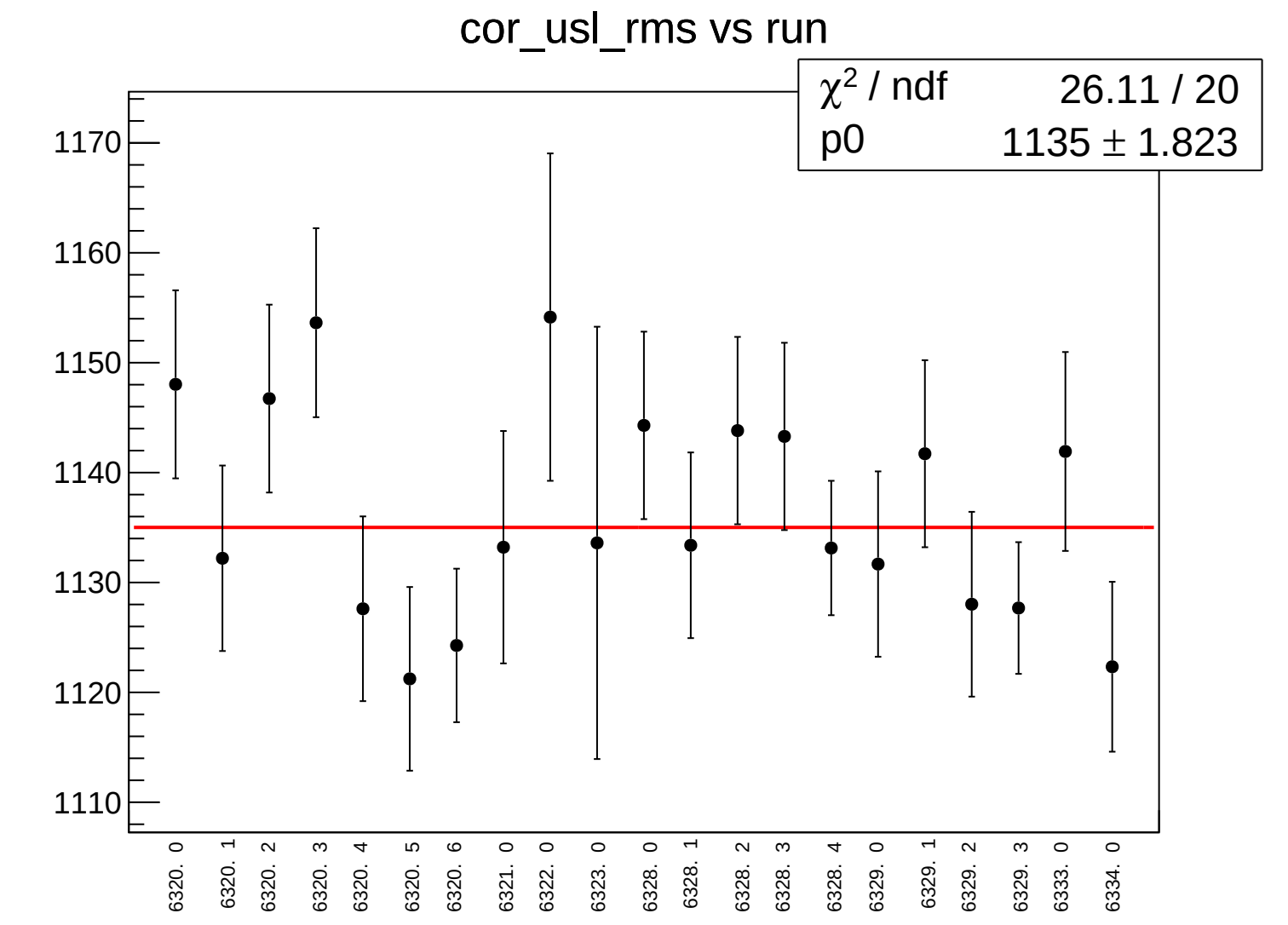

asym_right_dd_mean vs run
×10^3
χ² / ndf 23.24 / 20
p0 365 ± 2633
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −22.56
Std Dev 40.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

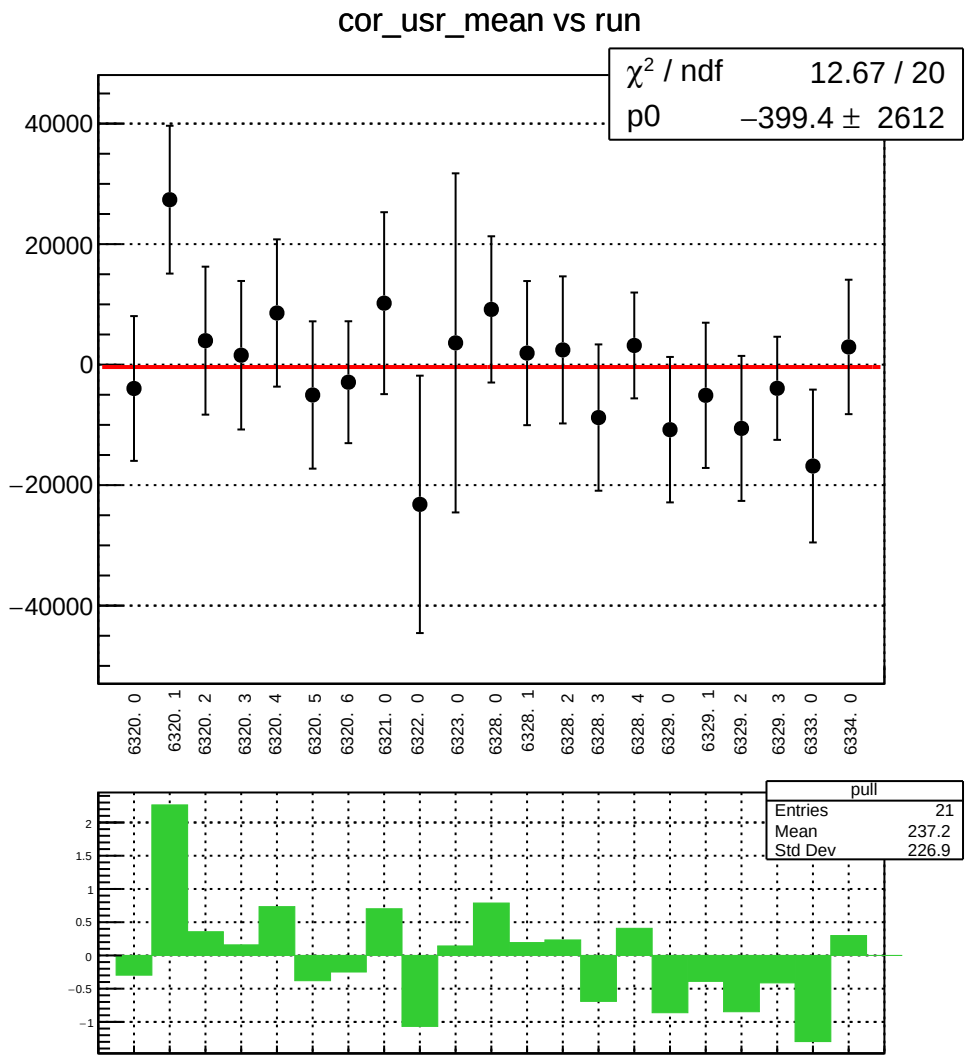

pull1D
Entries 21
Mean 0.01825
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

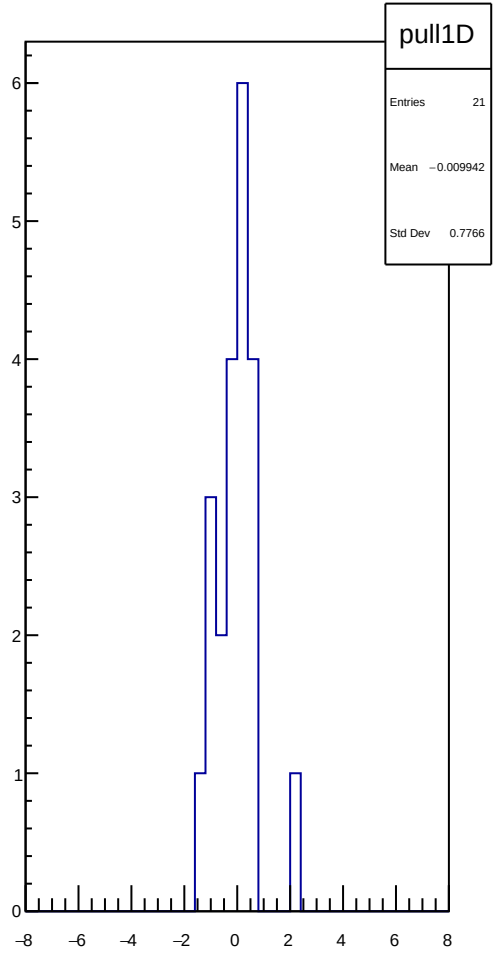

asym_right_dd_rms vs run
χ² / ndf 4421 / 20
p0 1152 ± 1.862
1700
1600
1500
1400
1300
1200
1100
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

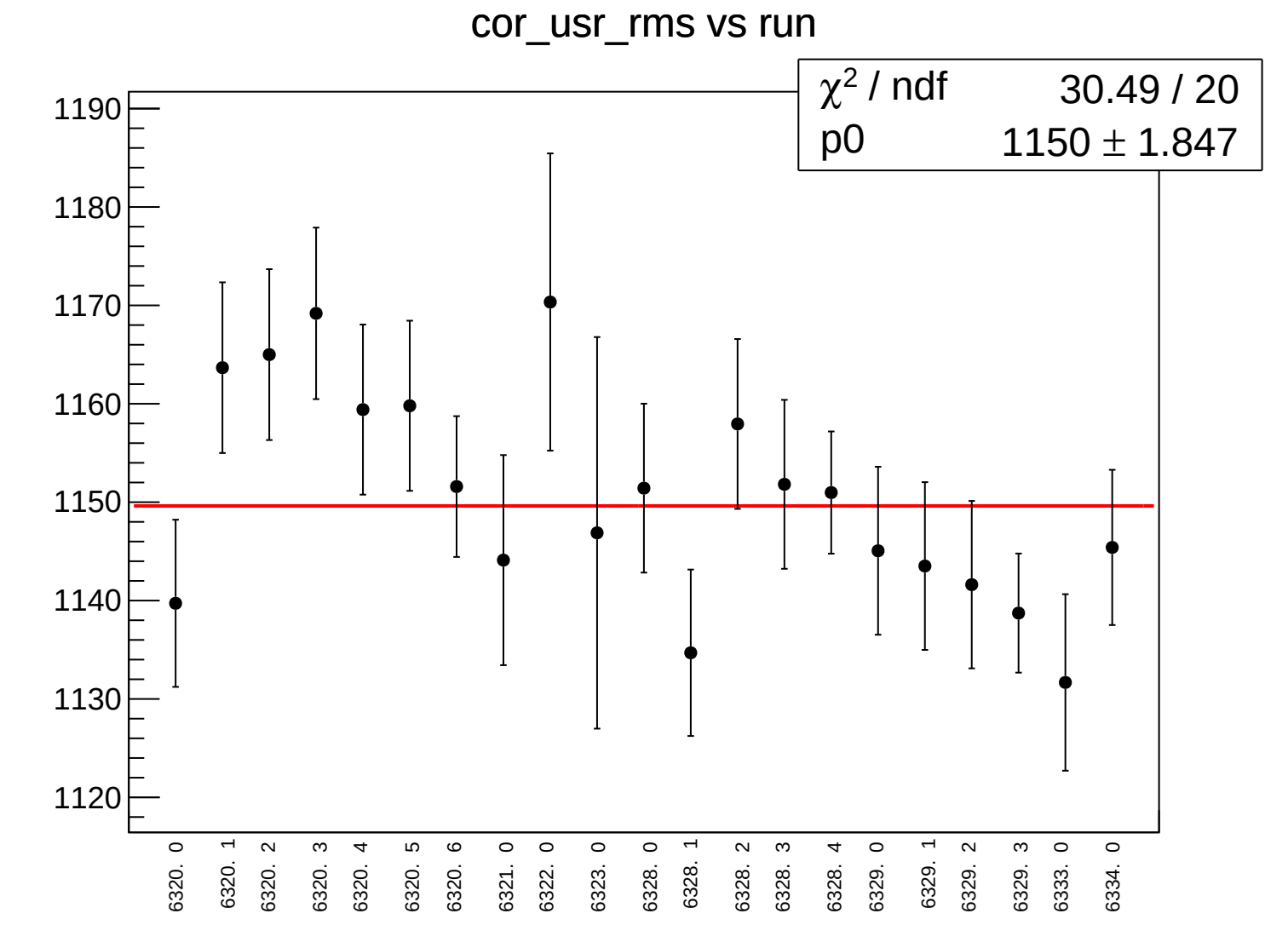

cor_usl_mean vs run
χ² / ndf 24.59 / 20
p0 918.8 ± 2579
60000
40000
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.1
Std Dev 18.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

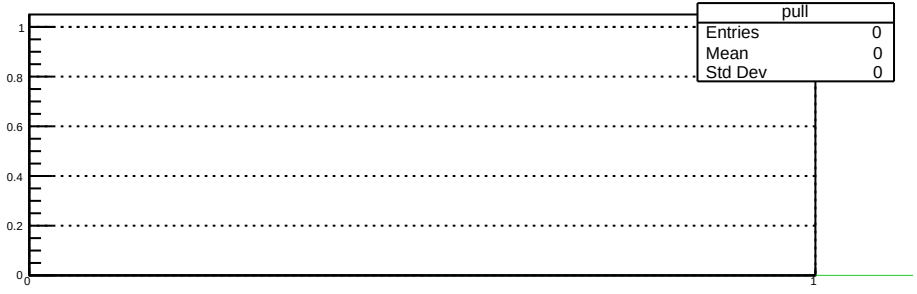

pull1D
Entries 21
Mean −0.02073
Std Dev 1.082
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

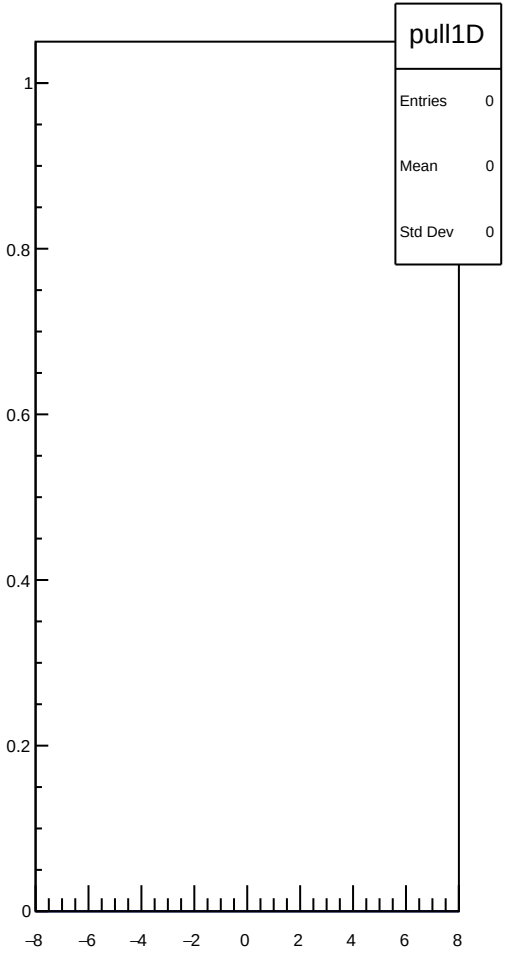

cor_usl_rms vs run
χ² / ndf 26.11 / 20
p0 1135 ± 1.823
1170
1160
1150
1140
1130
1120
1110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

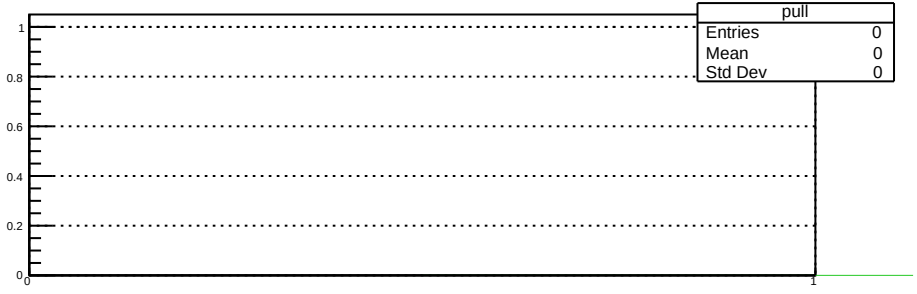

cor_usr_mean vs run
χ² / ndf 12.67 / 20
p0 −399.4 ± 2612
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 237.2
Std Dev 226.9
2
1.5
1
0.5
0
−0.5
−1

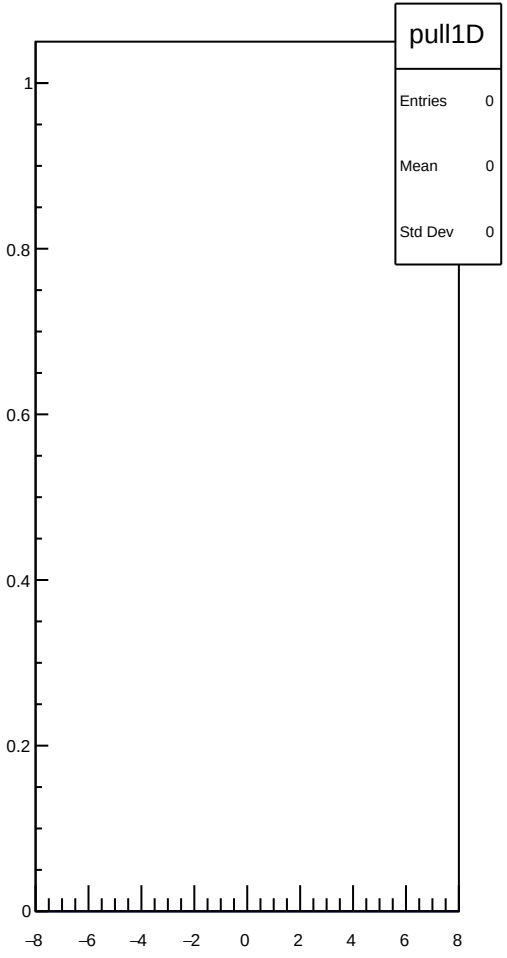

pull1D
Entries 21
Mean −0.009942
Std Dev 0.7766
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

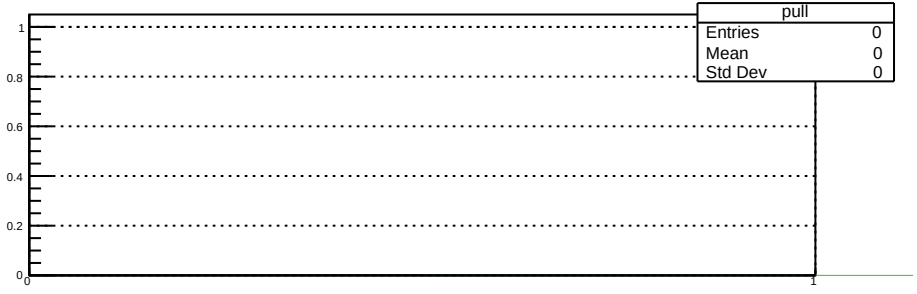

cor_usr_rms vs run
χ² / ndf 30.49 / 20
p0 1150 ± 1.847
1190
1180
1170
1160
1150
1140
1130
1120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

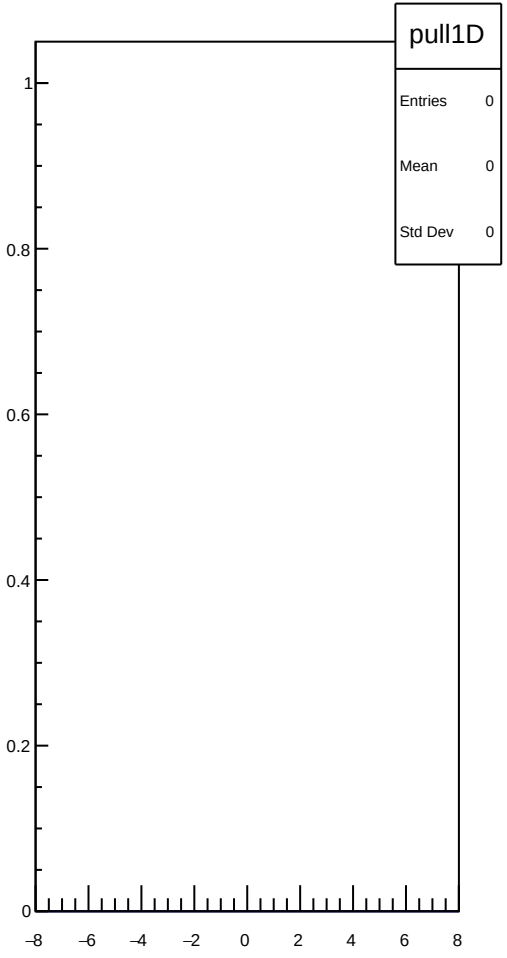

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

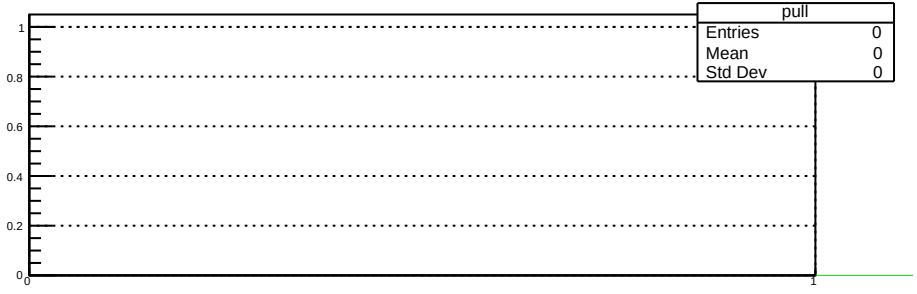

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

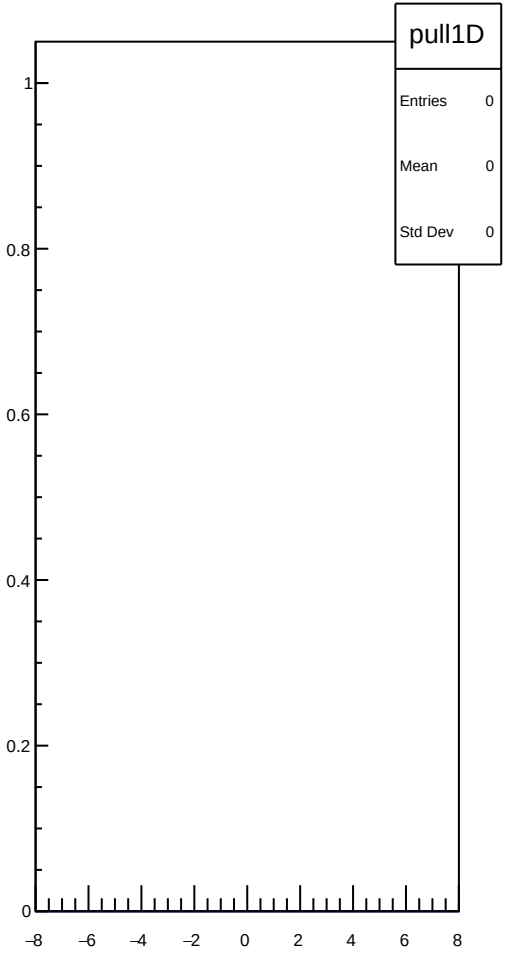

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

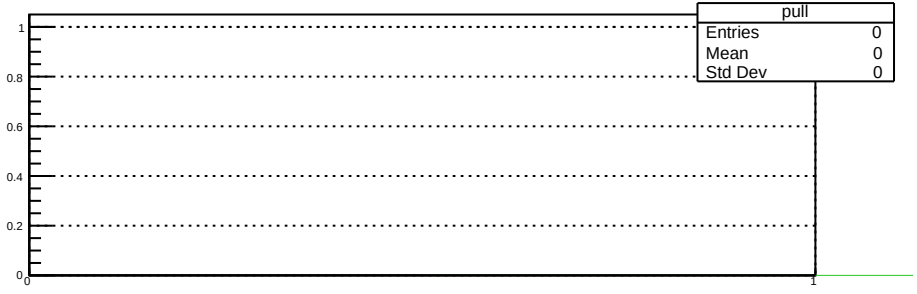

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

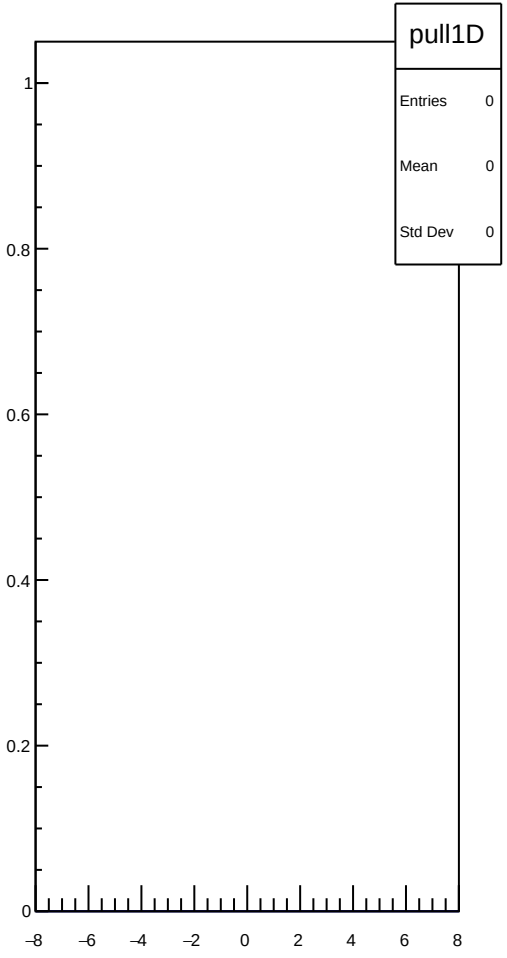

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

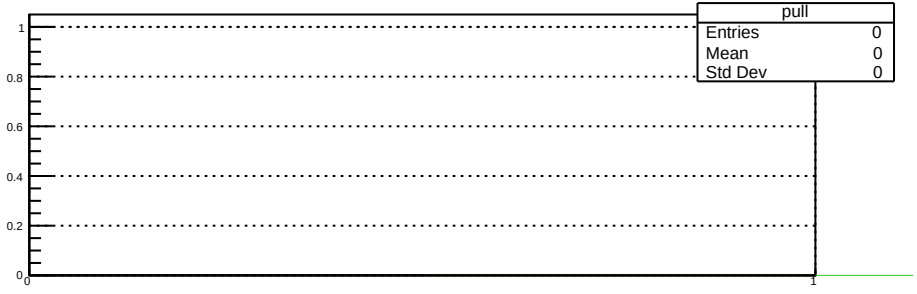

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

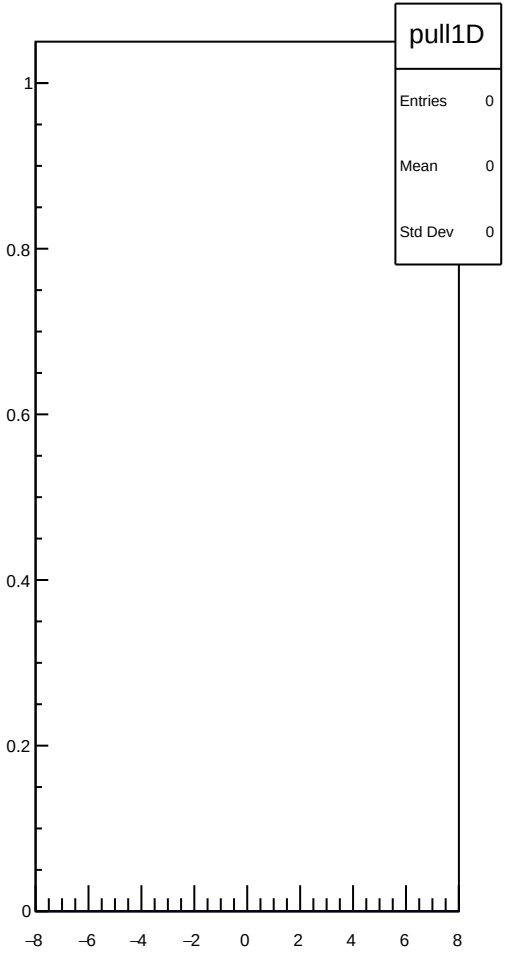

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

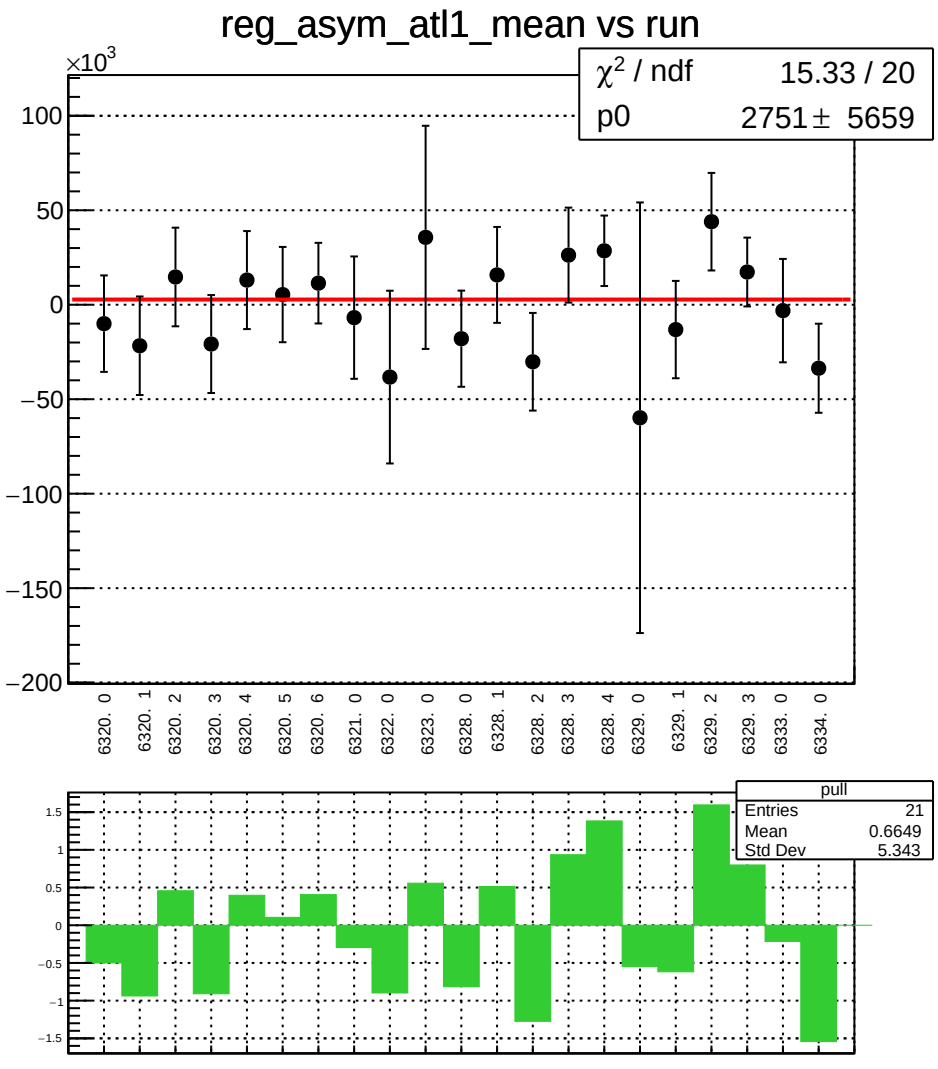

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

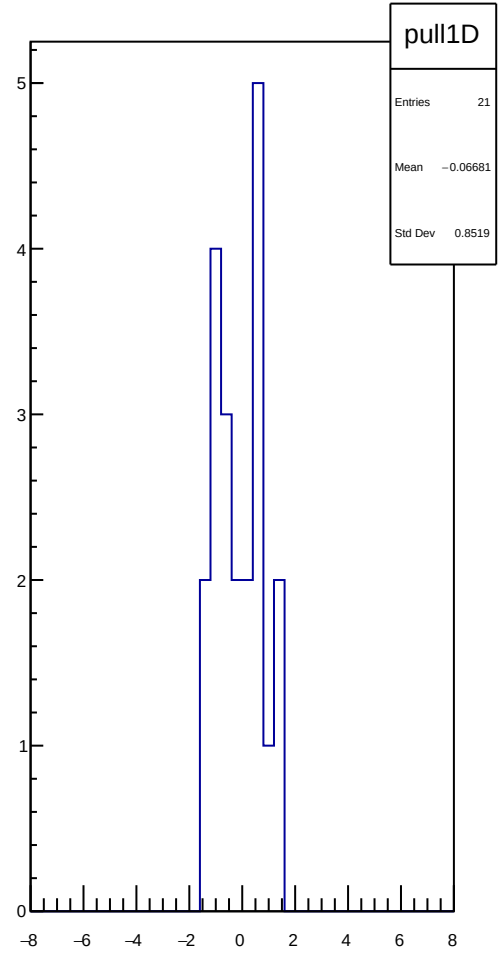

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

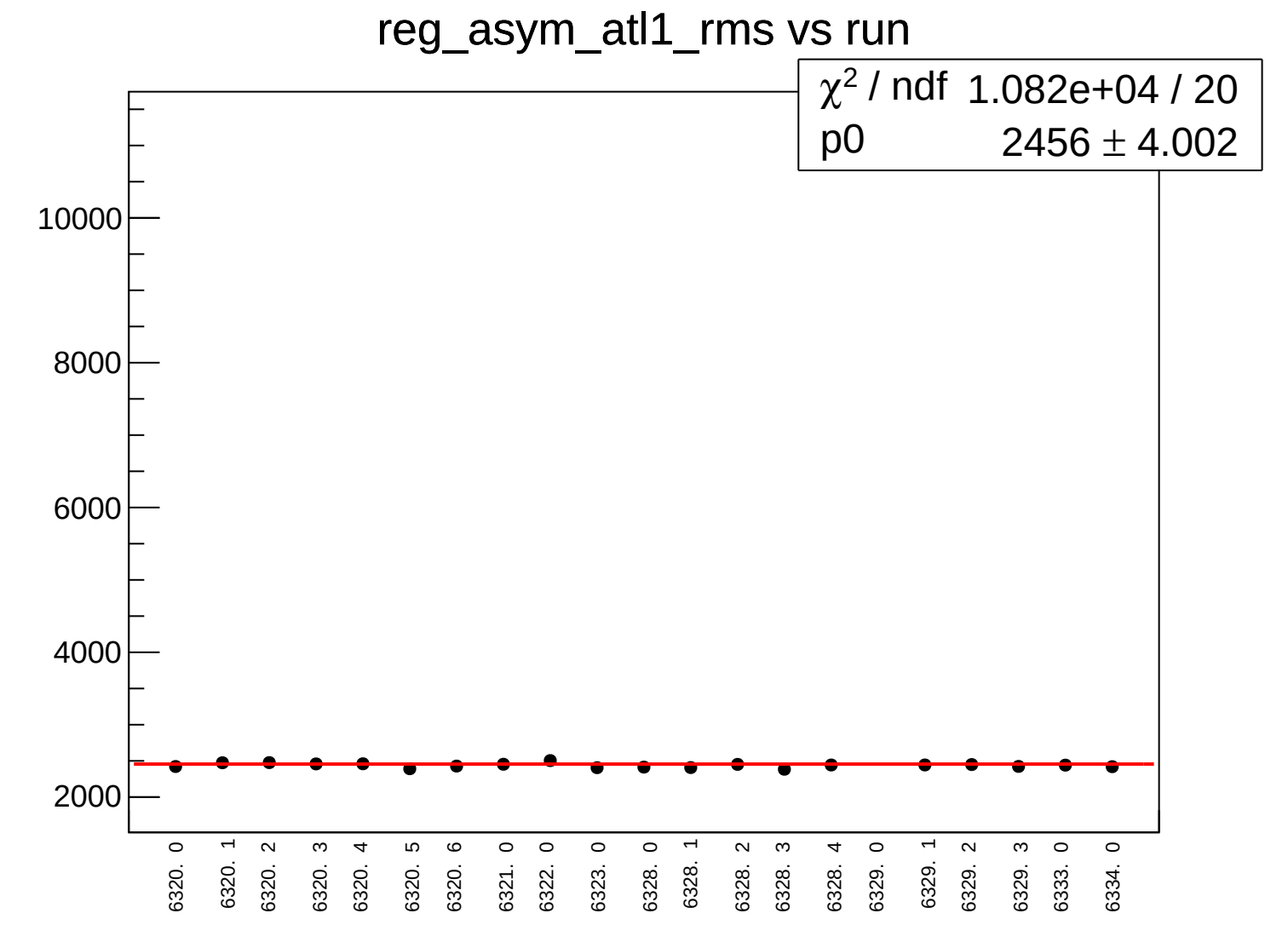

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

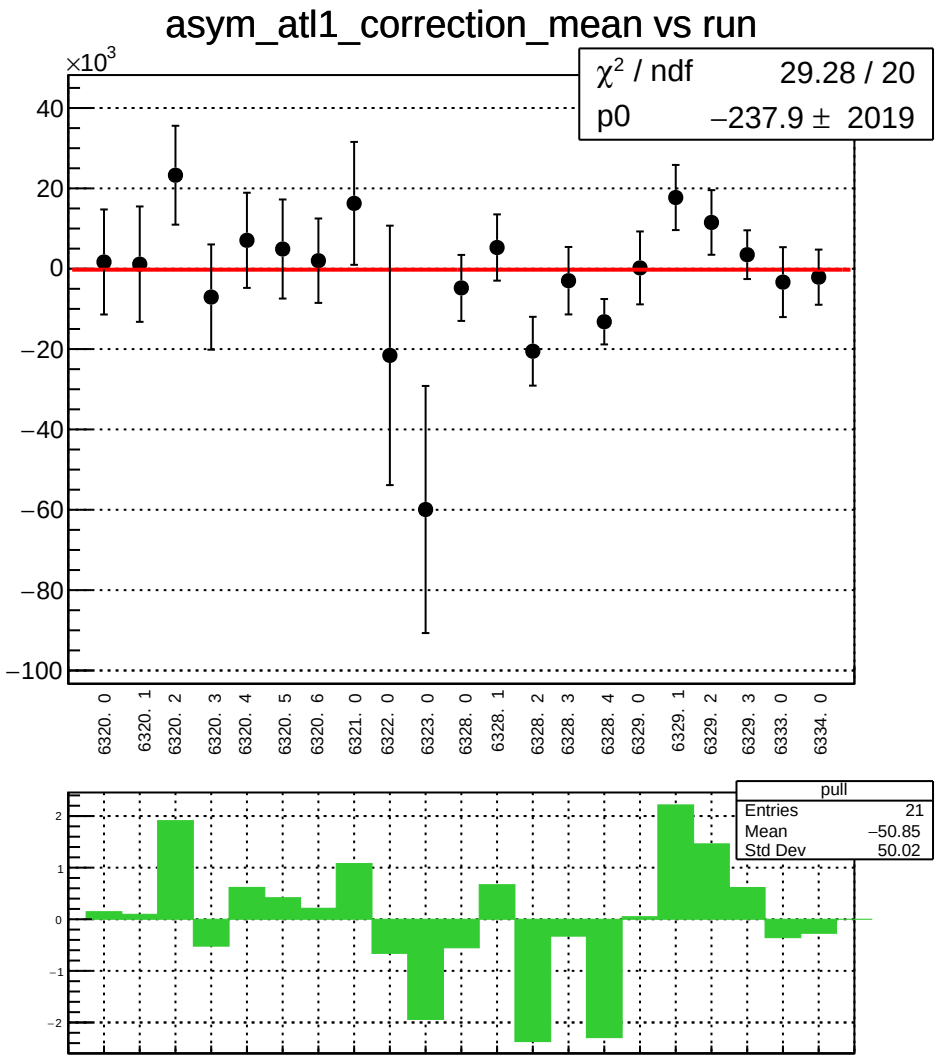

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

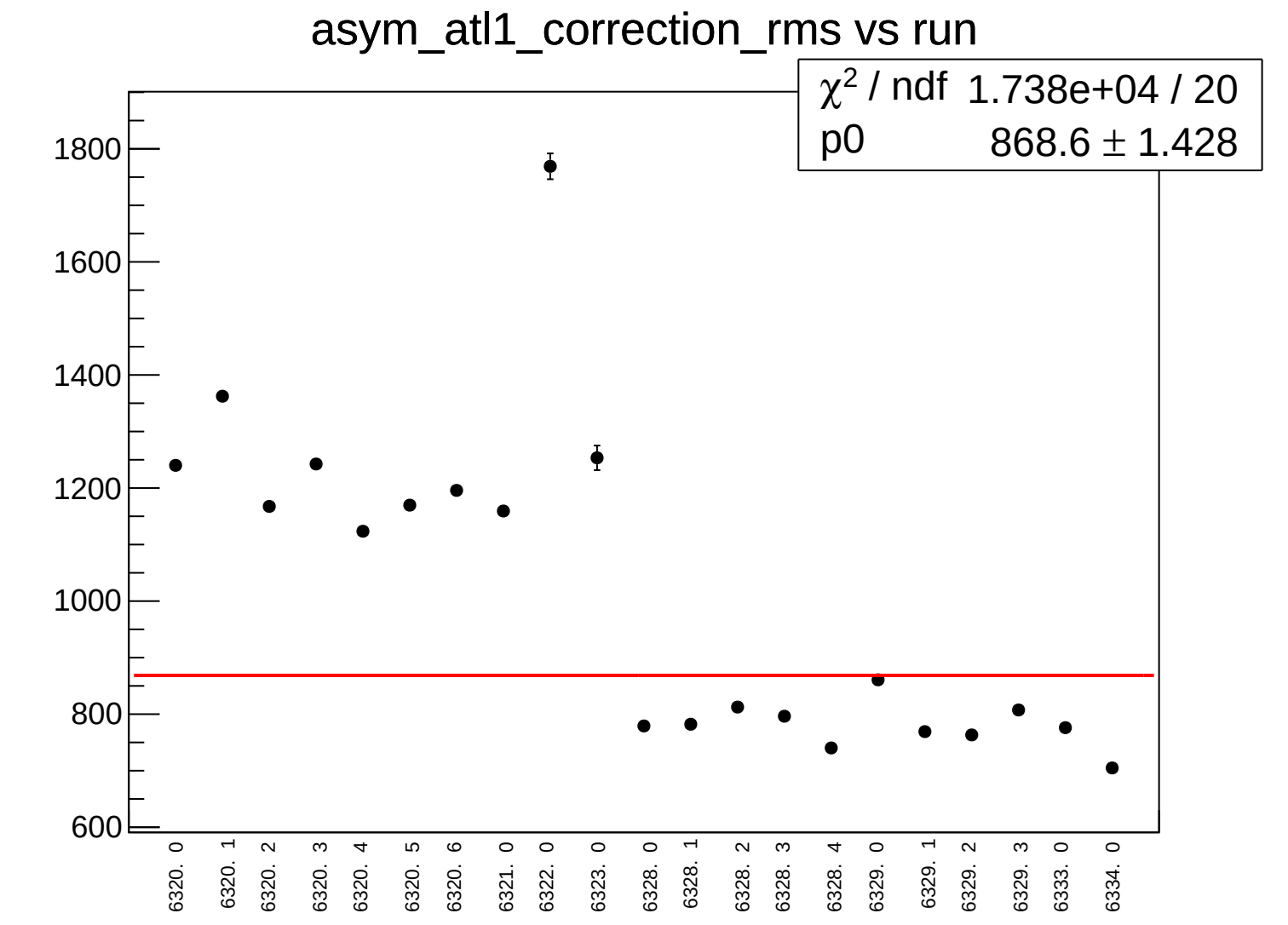

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

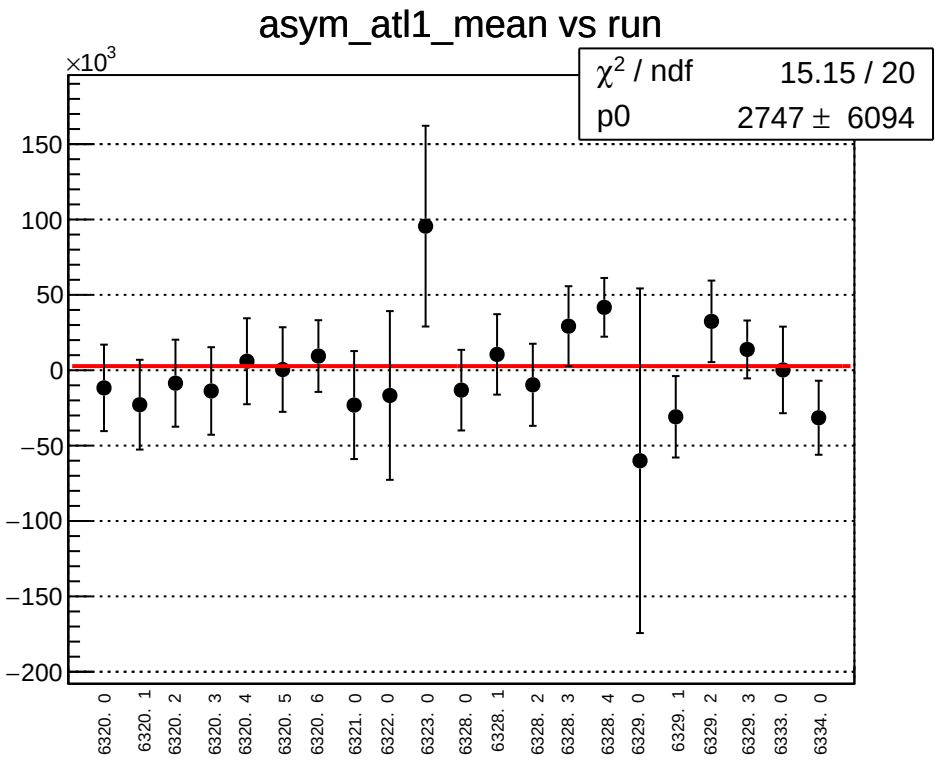

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 15.33 / 20
p0 2751 ± 5659
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.6649
Std Dev 5.343
1.5
1
0.5
0
−0.5
−1
−1.5

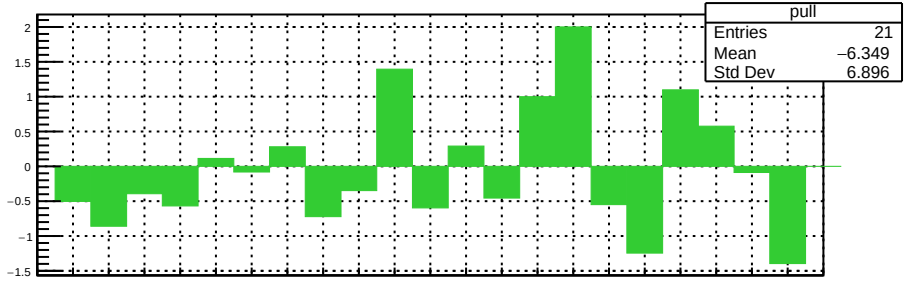

pull1D
Entries 21
Mean −0.06681
Std Dev 0.8519
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

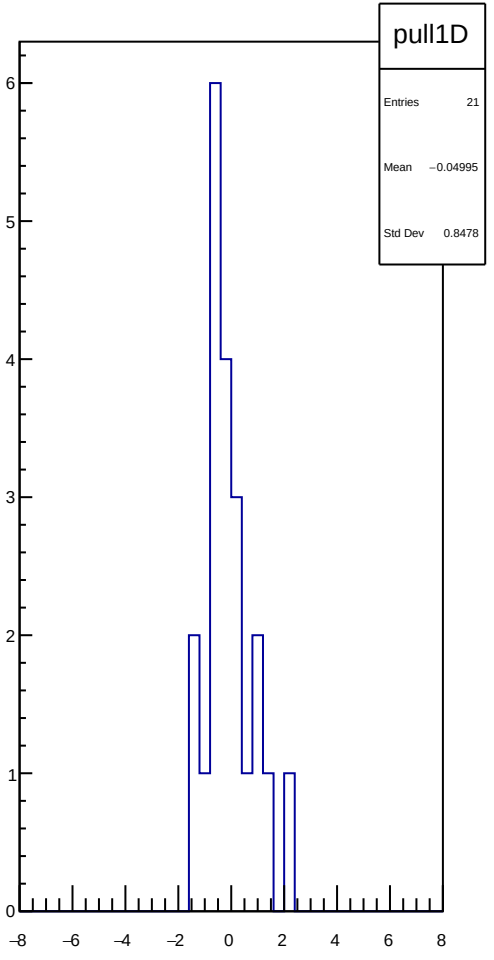

reg_asym_atl1_rms vs run
χ² / ndf 1.082e+04 / 20
p0 2456 ± 4.002
10000
8000
6000
4000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

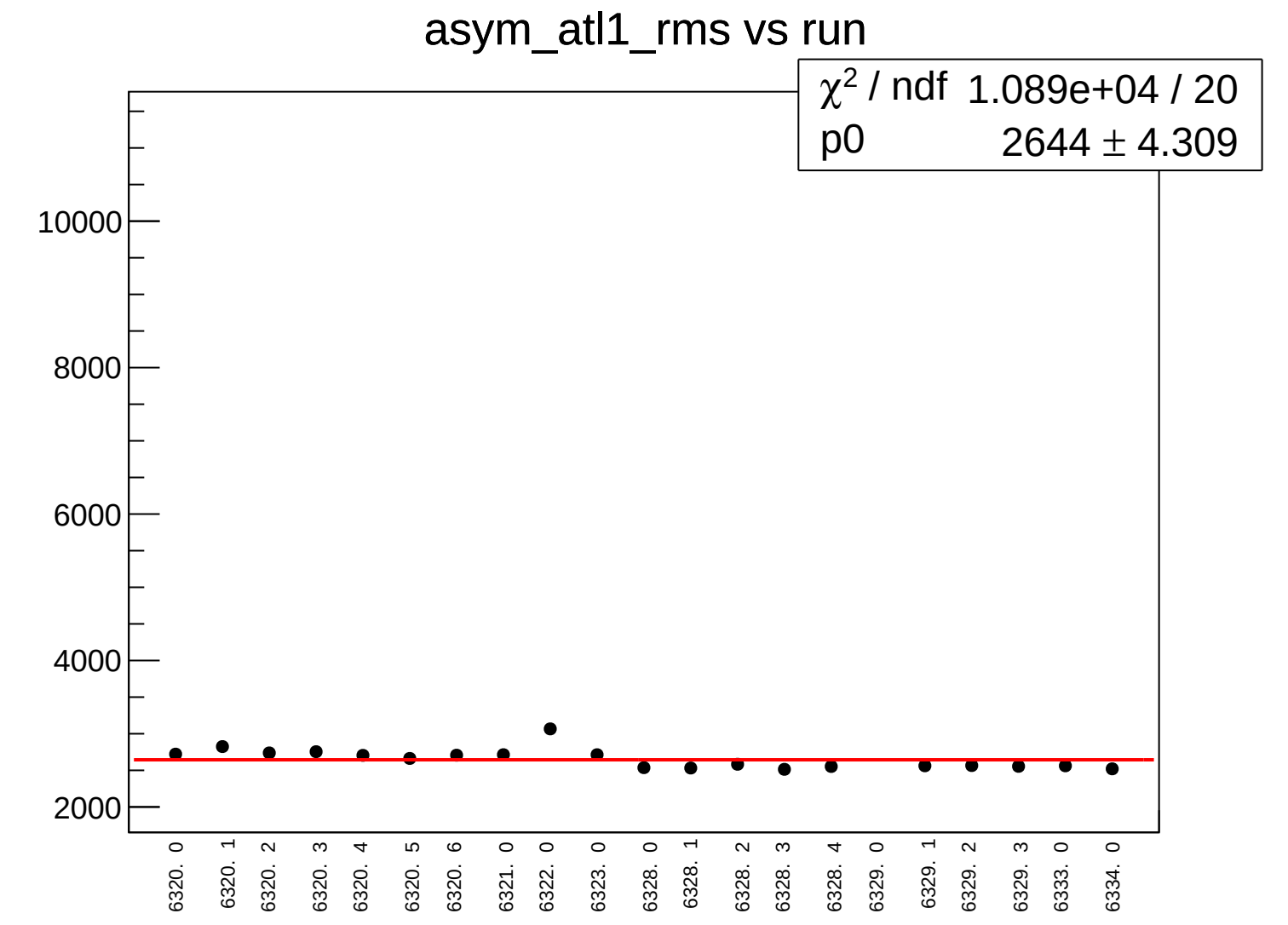

asym_atl1_correction_mean vs run
×10^3
χ² / ndf 29.28 / 20
p0 −237.9 ± 2019
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −50.85
Std Dev 50.02
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.009347
Std Dev 1.181
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

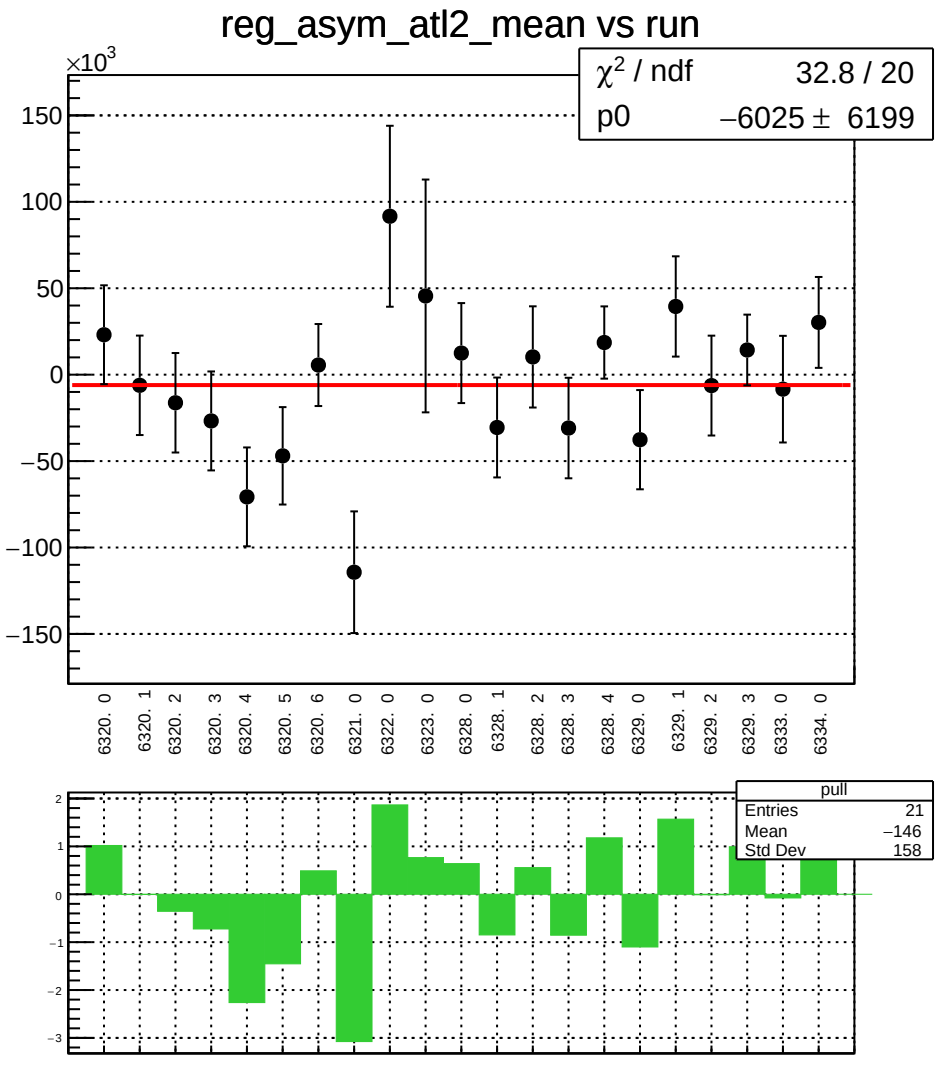

asym_atl1_correction_rms vs run
χ² / ndf 1.738e+04 / 20
p0 868.6 ± 1.428
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

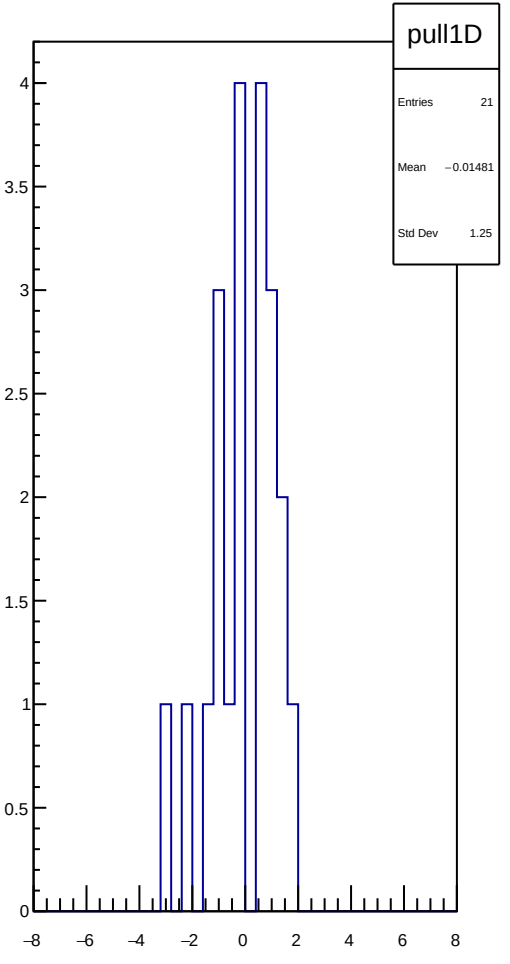

asym_atl1_mean vs run
×10^3
χ^2 / ndf 15.15 / 20
p0 2747 ± 6094
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

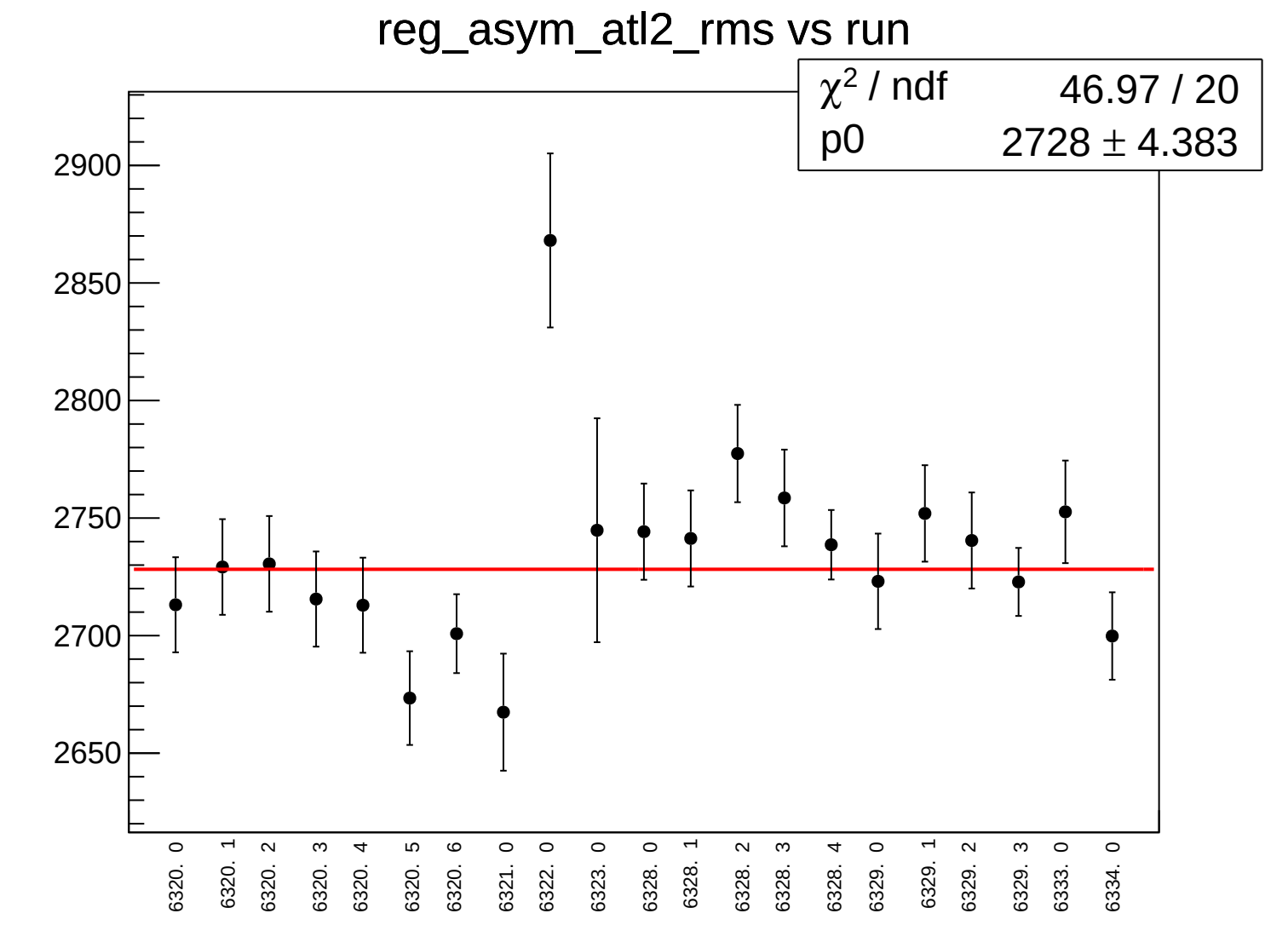

pull
Entries 21
Mean −6.349
Std Dev 6.896
2
1.5
1
0.5
0
−0.5
−1
−1.5

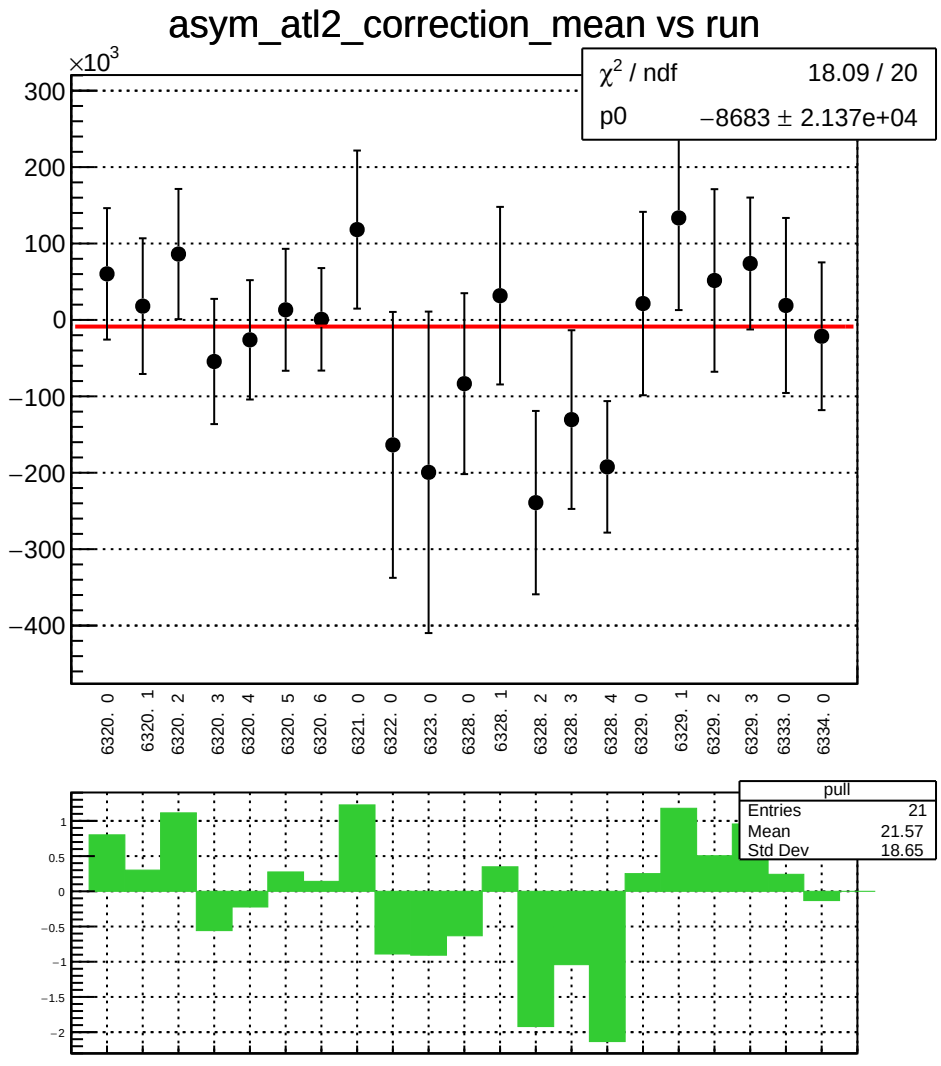

pull1D
Entries 21
Mean −0.04995
Std Dev 0.8478
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

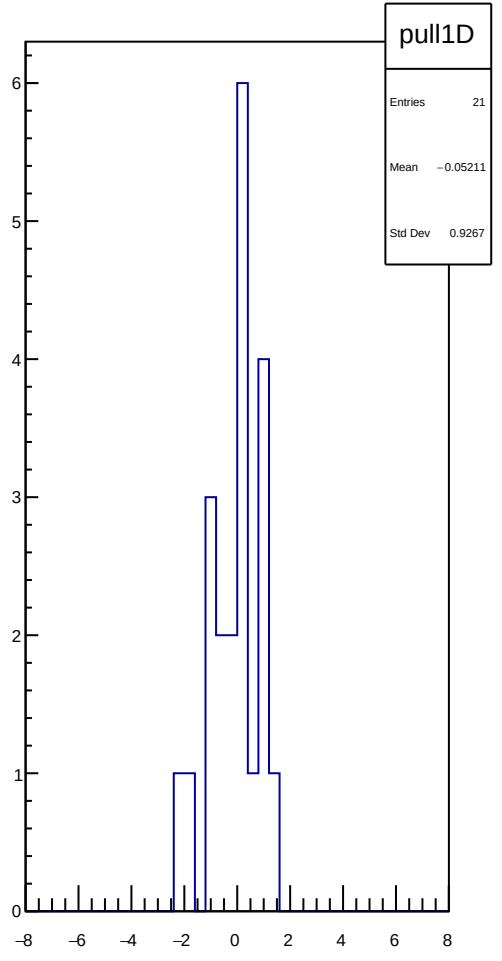

asym_atl1_rms vs run
χ² / ndf 1.089e+04 / 20
p0 2644 ± 4.309
10000
8000
6000
4000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

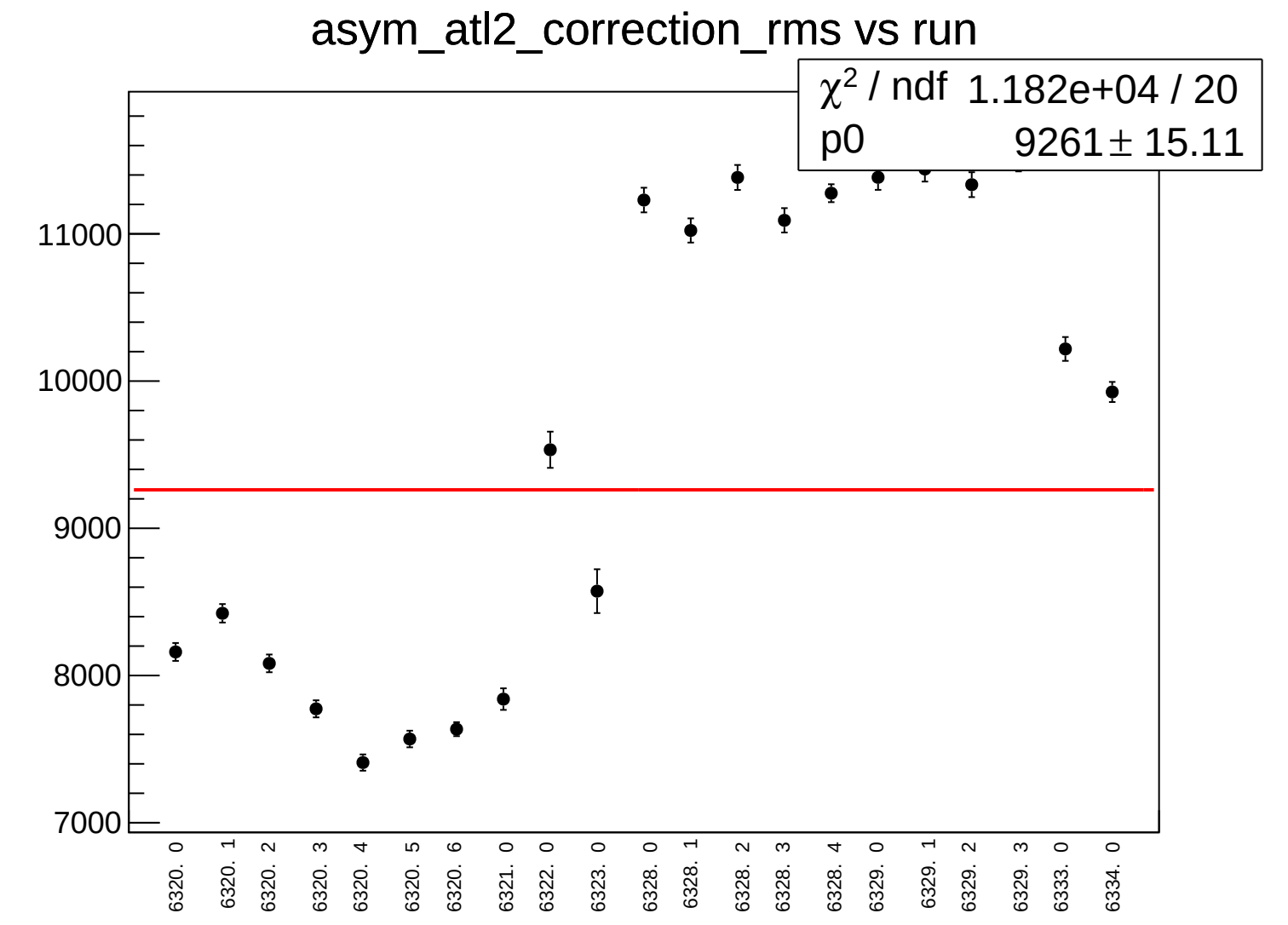

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 32.8 / 20
p0 −6025 ± 6199
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −146
Std Dev 158
2
1
0
−1
−2
−3

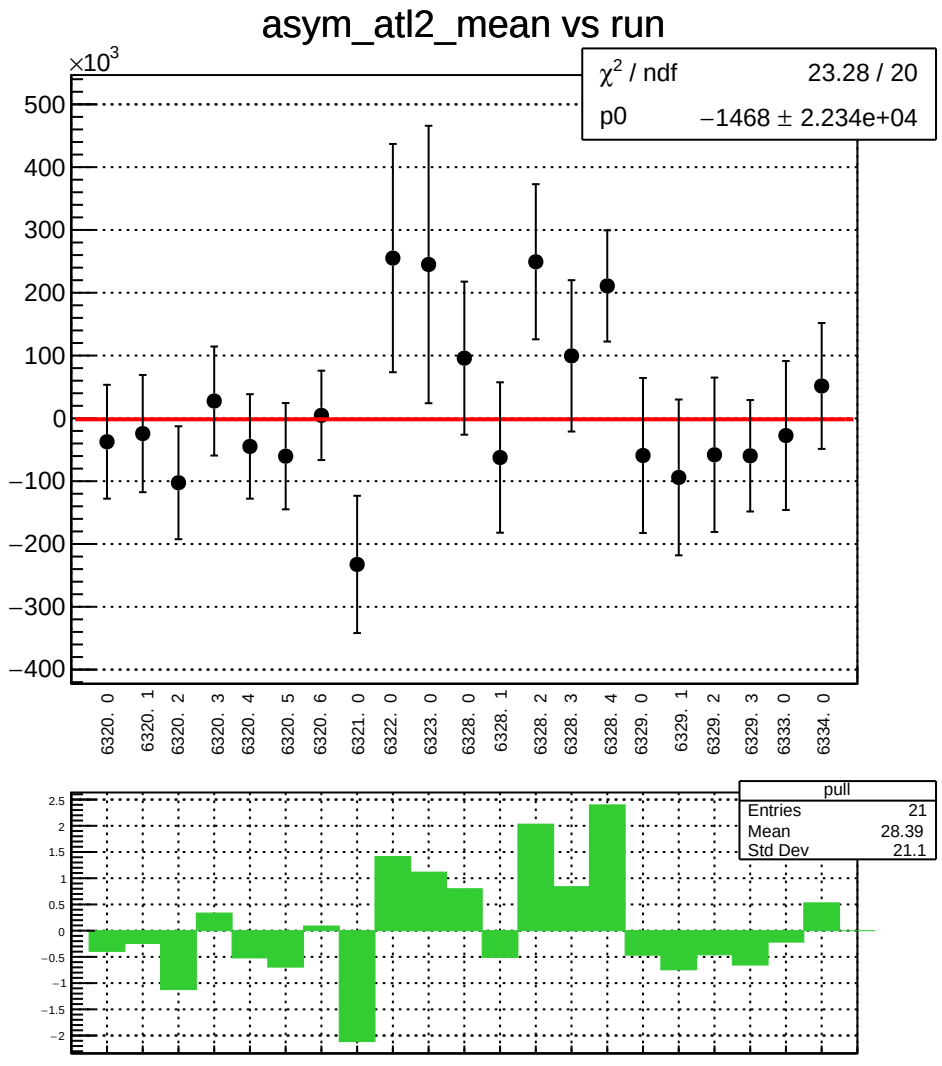

pull1D
Entries 21
Mean −0.01481
Std Dev 1.25
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

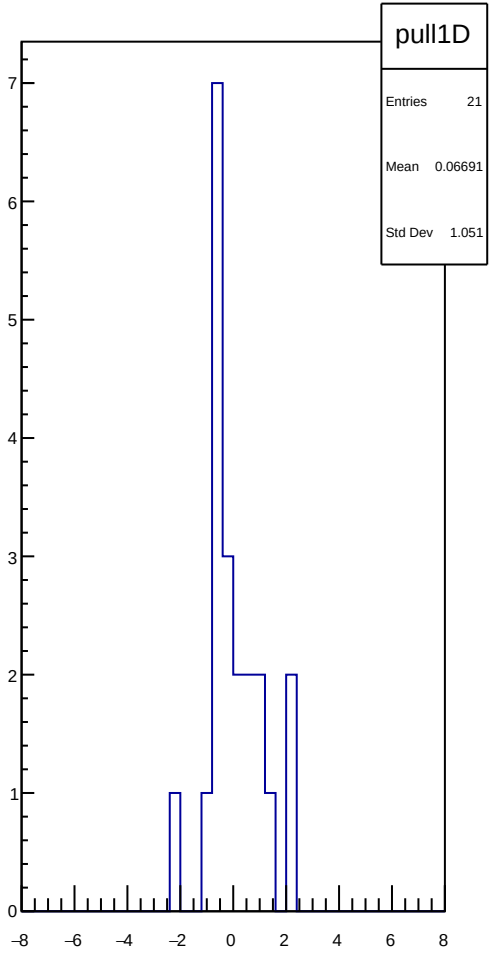

reg_asym_atl2_rms vs run
χ² / ndf 46.97 / 20
p0 2728 ± 4.383
2900
2850
2800
2750
2700
2650
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

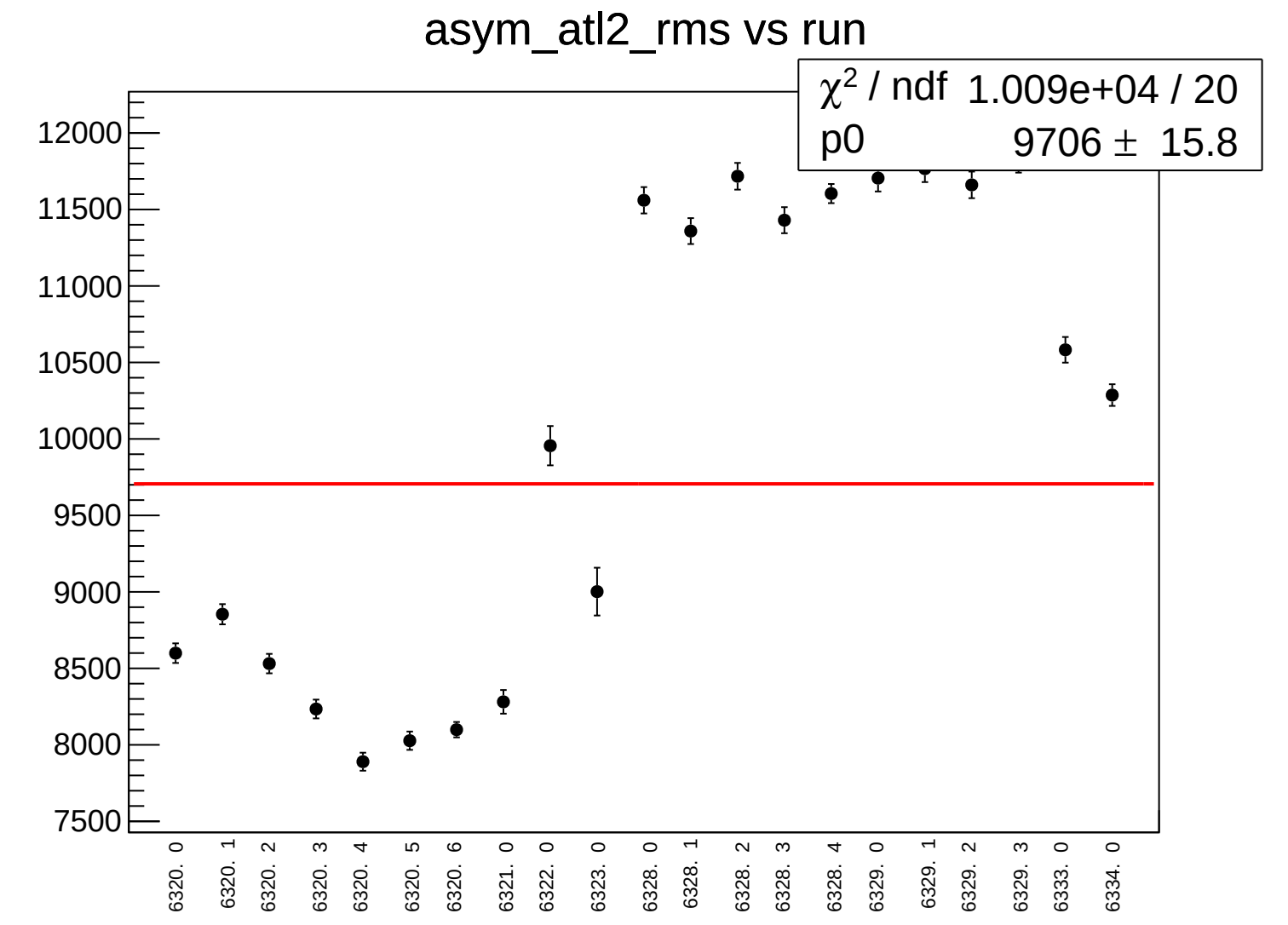

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 18.09 / 20
p0 −8683 ± 2.137e+04
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 21.57
Std Dev 18.65
1
0.5
0
−0.5
−1
−1.5
−2

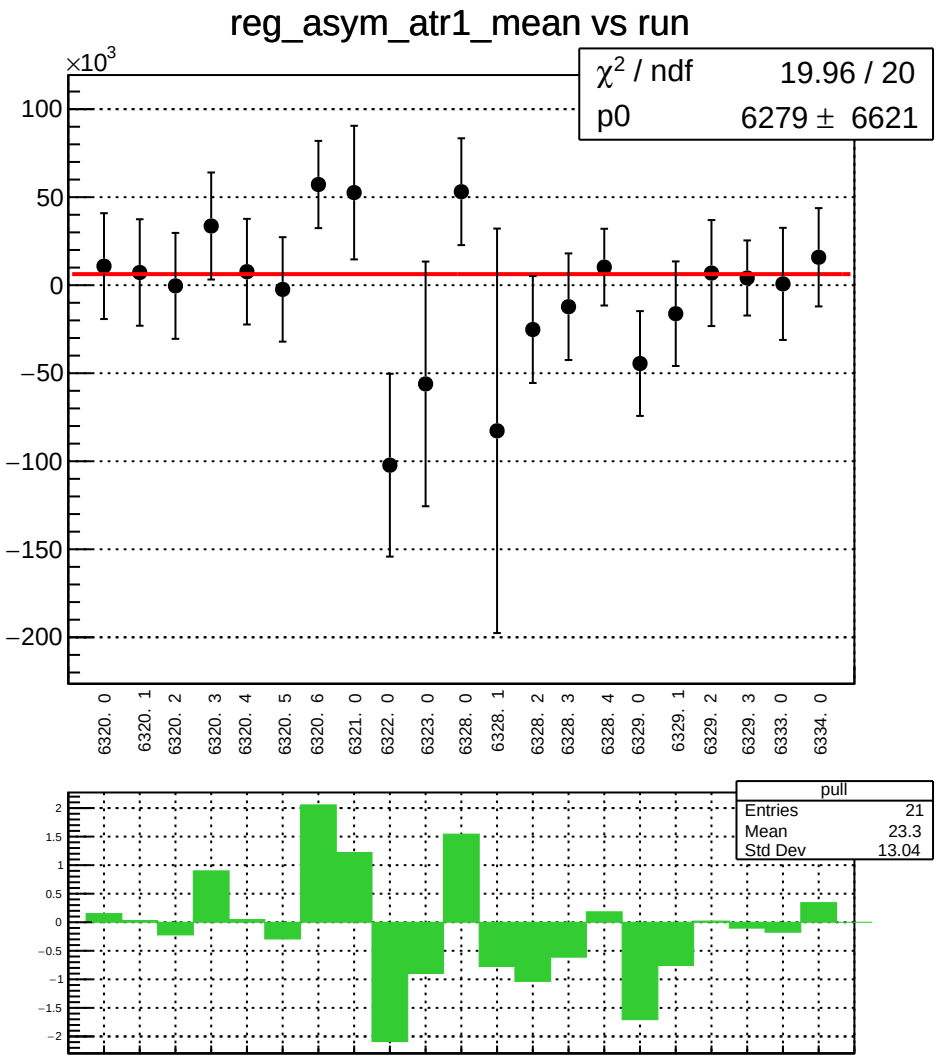

pull1D
Entries 21
Mean −0.05211
Std Dev 0.9267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

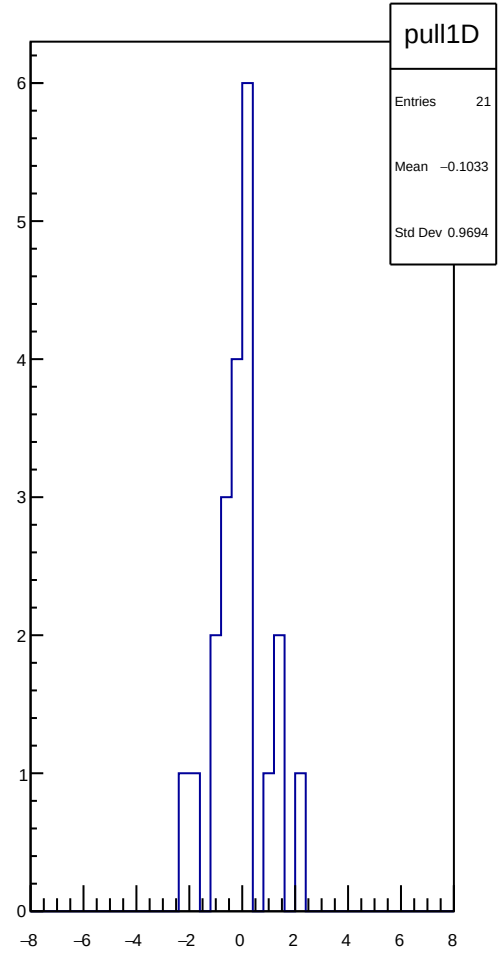

asym_atl2_correction_rms vs run
χ² / ndf 1.182e+04 / 20
p0 9261 ± 15.11
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

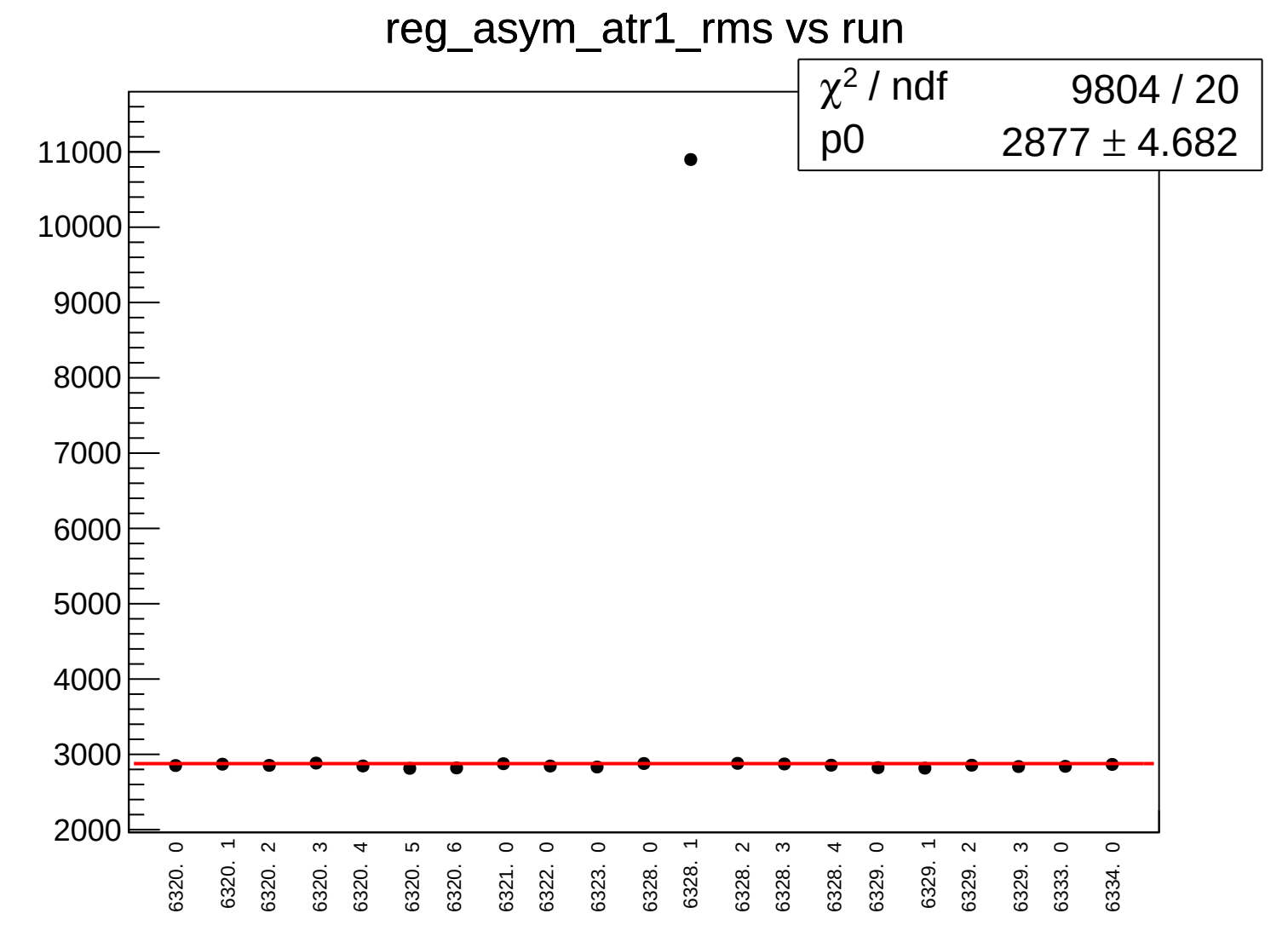

asym_atl2_mean vs run
×10^3
χ² / ndf 23.28 / 20
p0 −1468 ± 2.234e+04
500
400
300
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.39
Std Dev 21.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

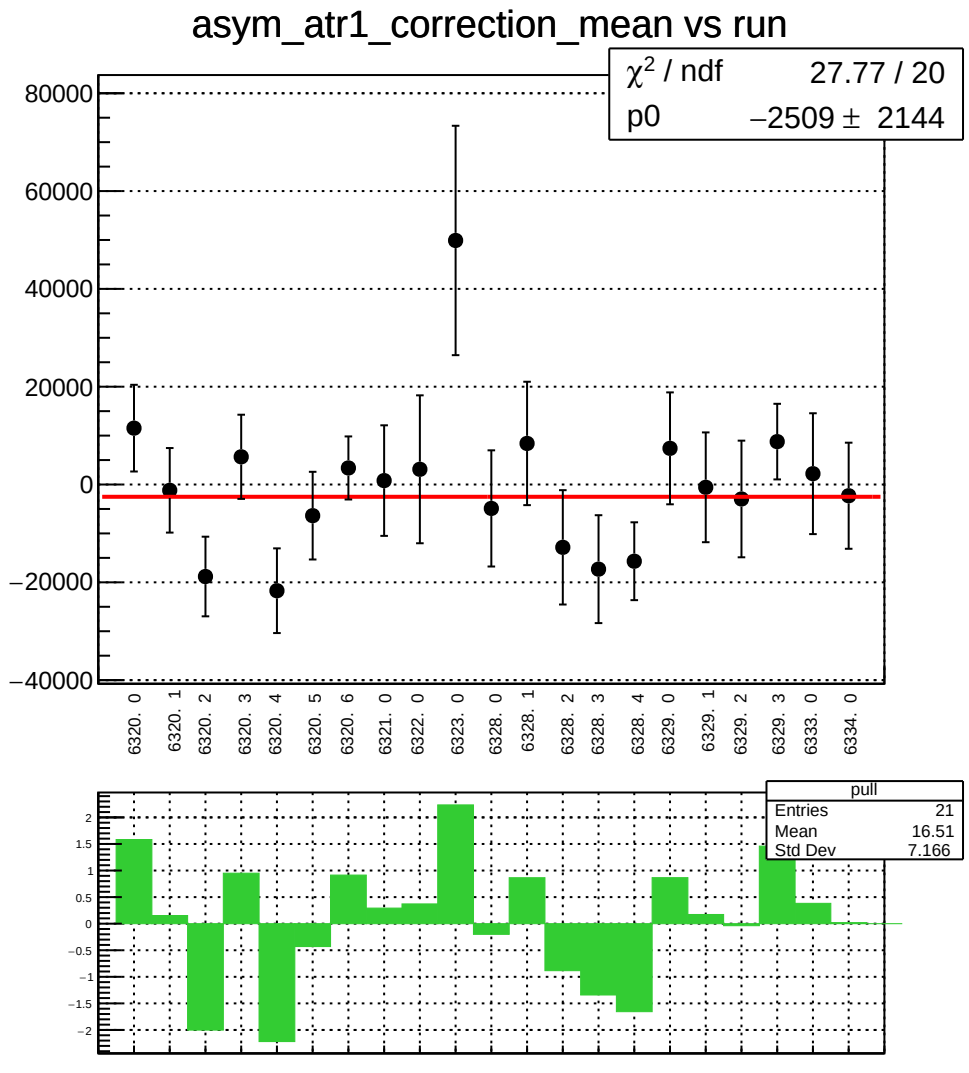

pull1D
Entries 21
Mean 0.06691
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

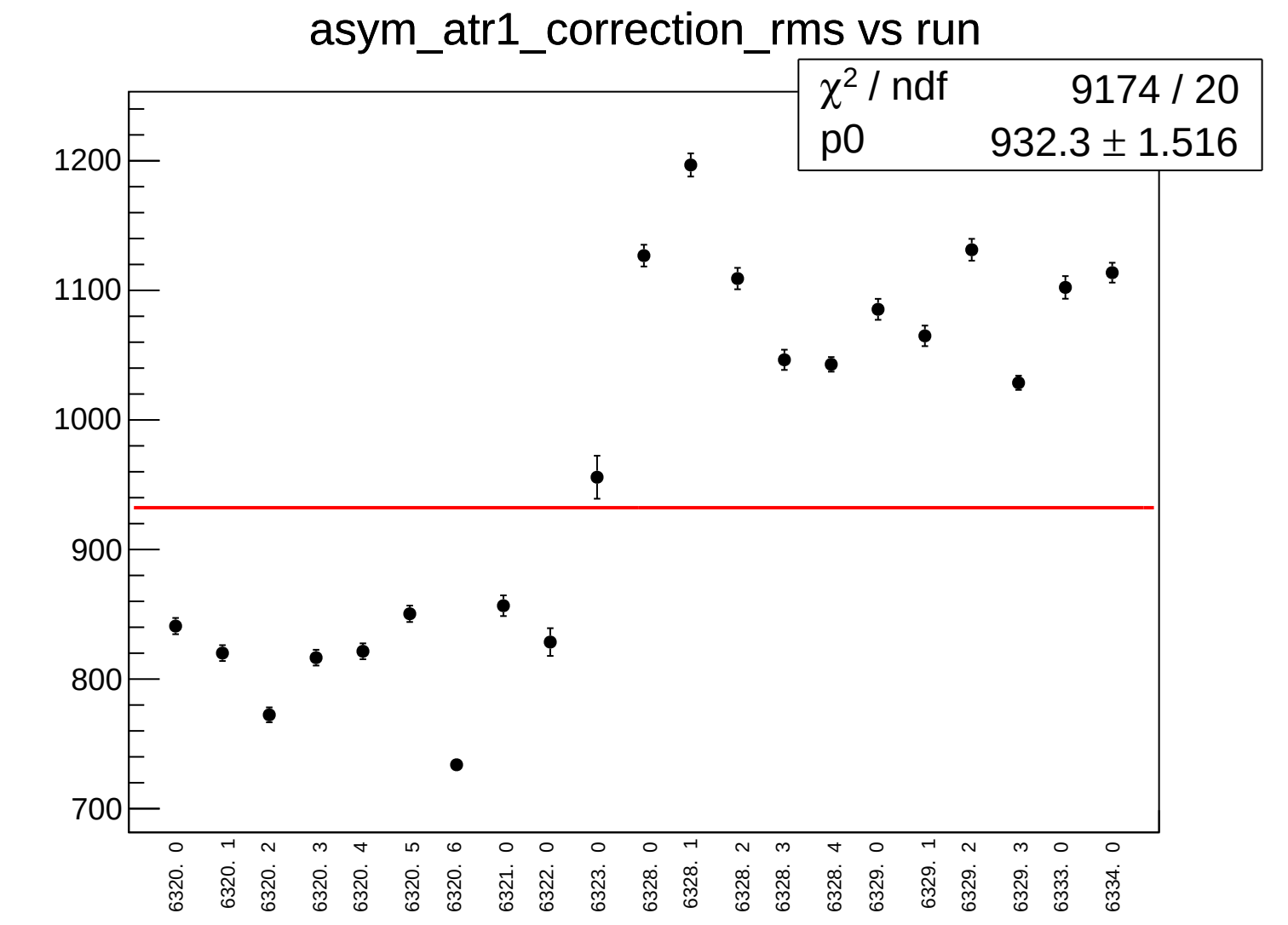

asym_atl2_rms vs run
χ² / ndf 1.009e+04 / 20
p0 9706 ± 15.8
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

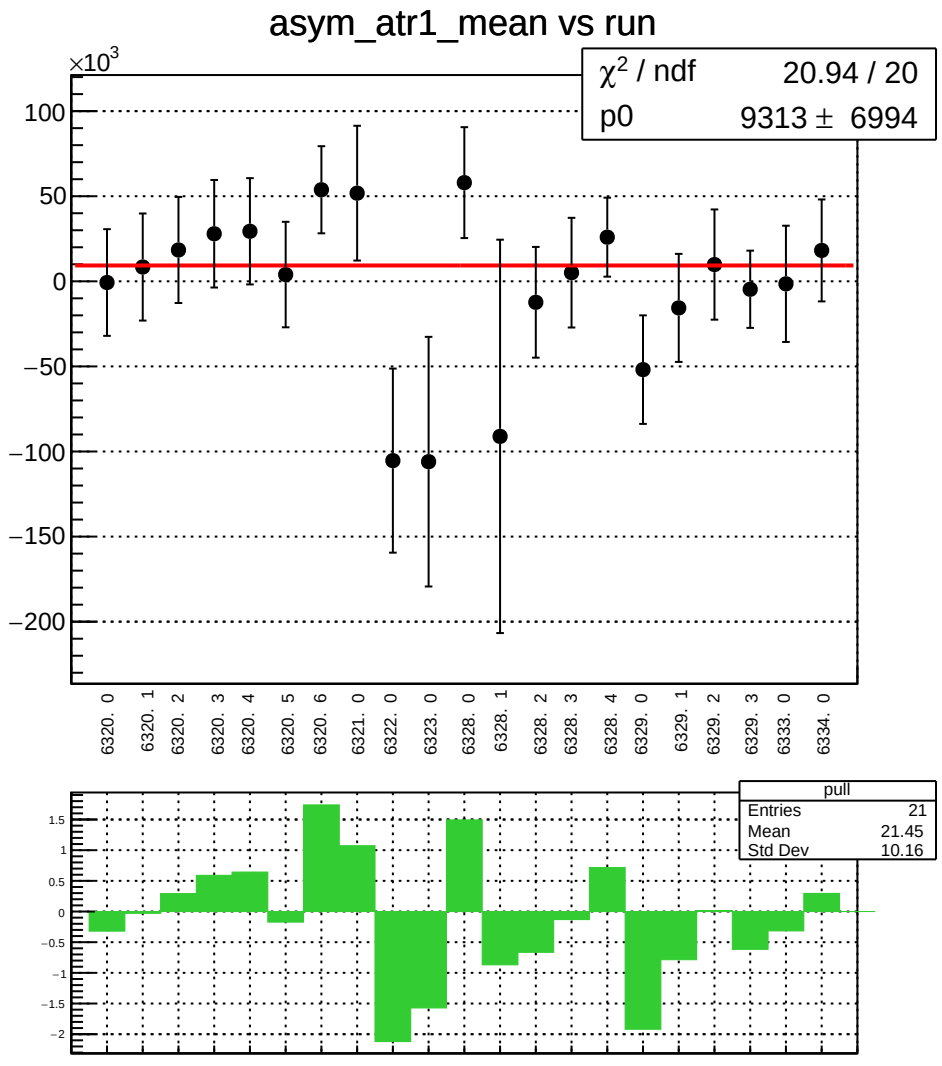

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 19.96 / 20
p0 6279 ± 6621
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 23.3
Std Dev 13.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

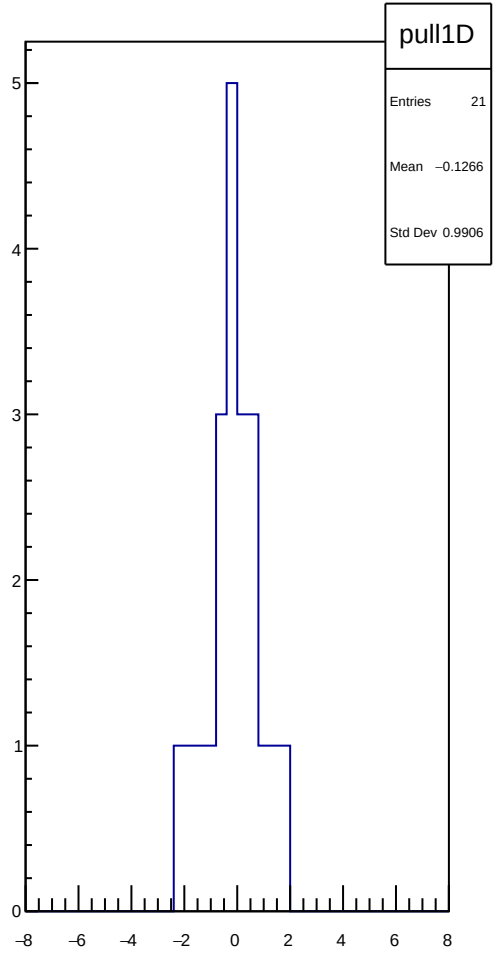

pull1D
Entries 21
Mean −0.1033
Std Dev 0.9694
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

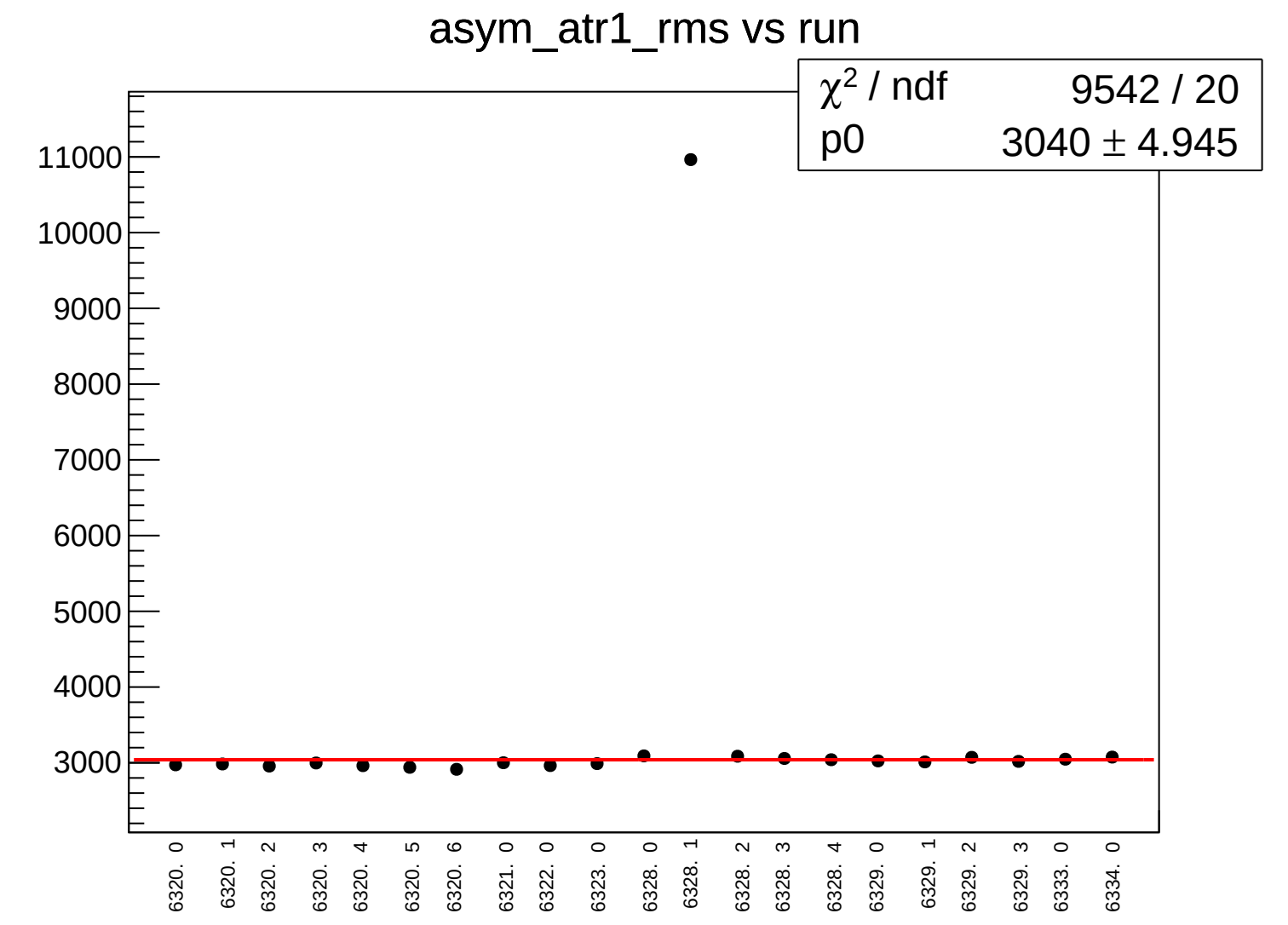

reg_asym_atr1_rms vs run
χ² / ndf 9804 / 20
p0 2877 ± 4.682
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

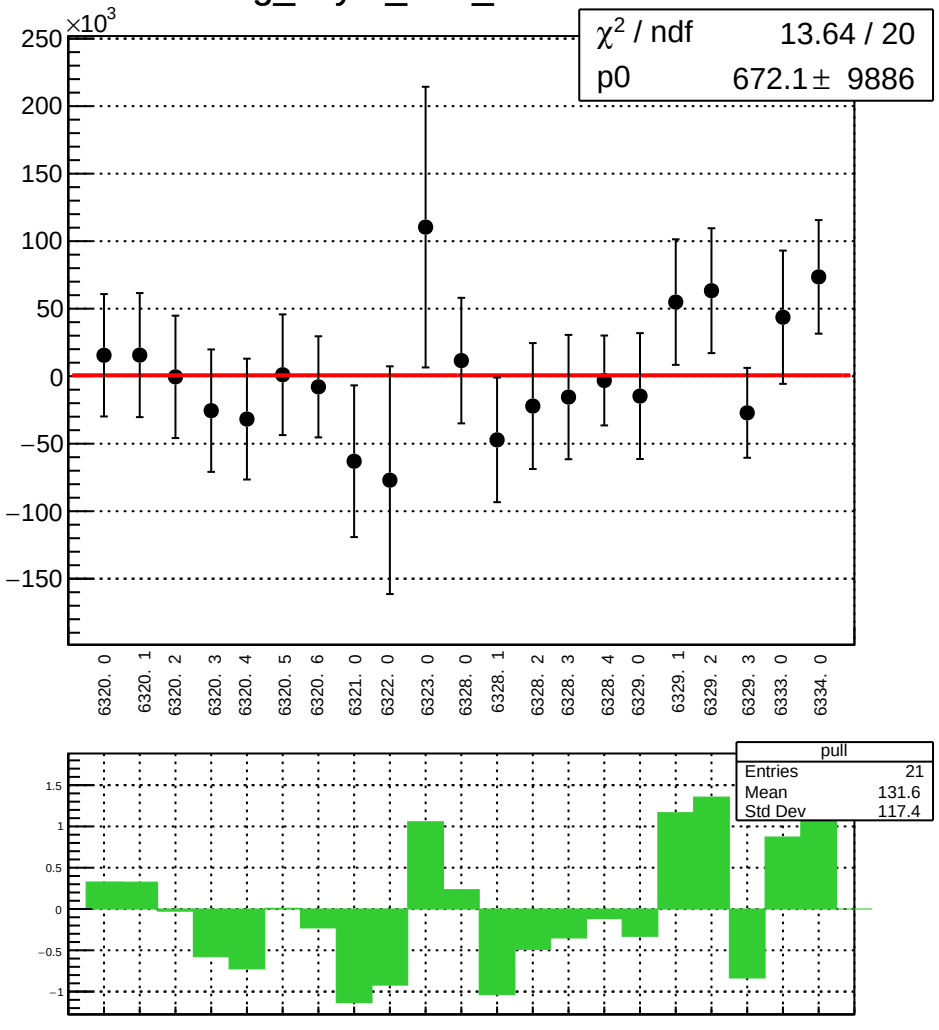

asym_atr1_correction_mean vs run
χ² / ndf 27.77 / 20
p0 −2509 ± 2144
80000
60000
40000
20000
0
−20000
−40000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.51
Std Dev 7.166
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.07114
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

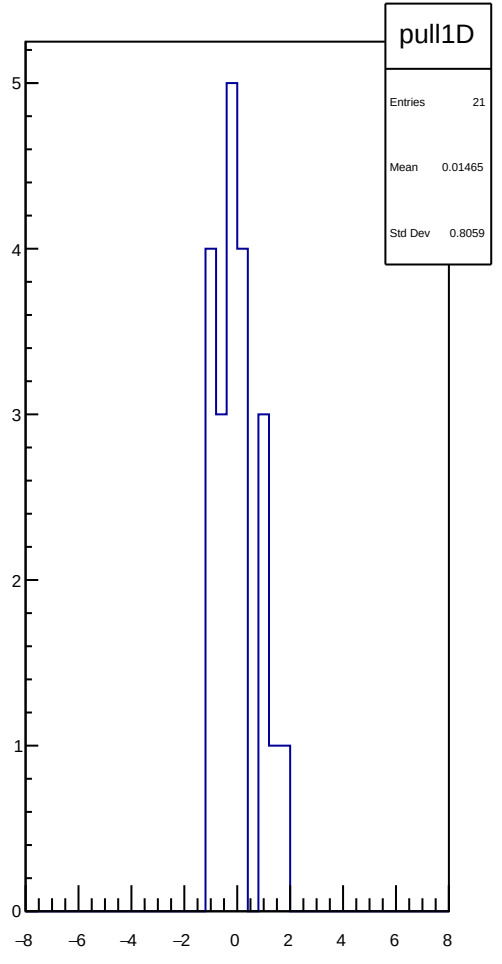

asym_atr1_correction_rms vs run
χ² / ndf 9174 / 20
p0 932.3 ± 1.516
1200
1100
1000
900
800
700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

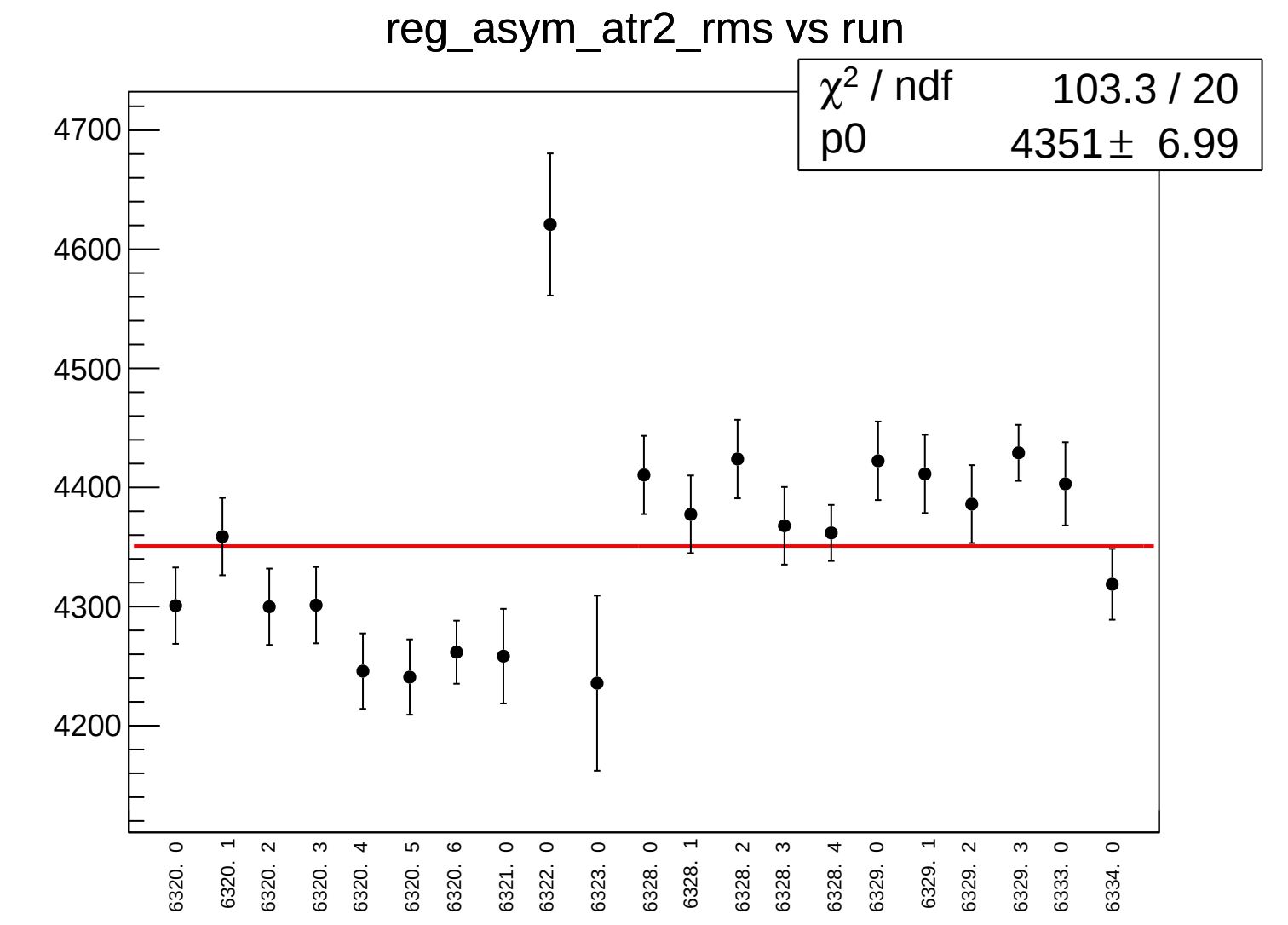

asym_atr1_mean vs run
×10^3
χ² / ndf 20.94 / 20
p0 9313 ± 6994
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 21.45
Std Dev 10.16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

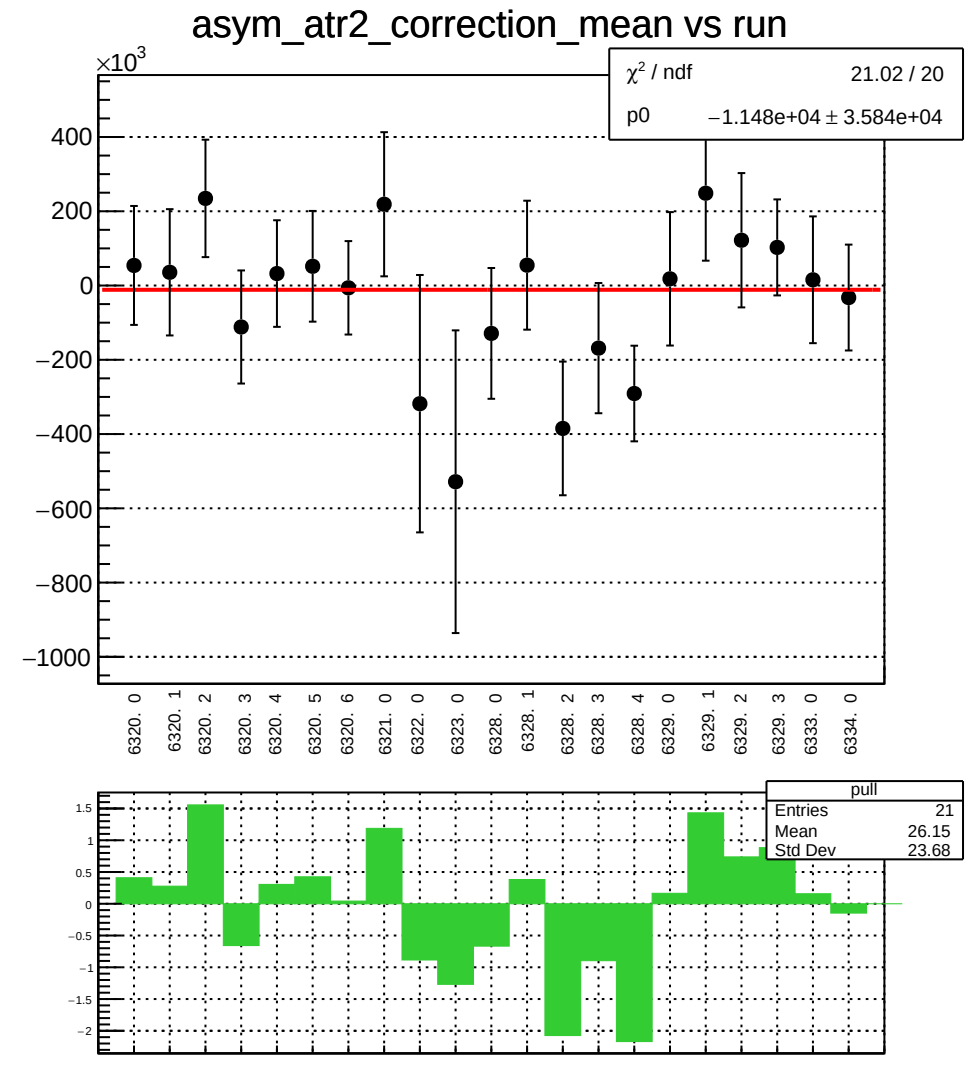

pull1D
Entries 21
Mean −0.1266
Std Dev 0.9906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

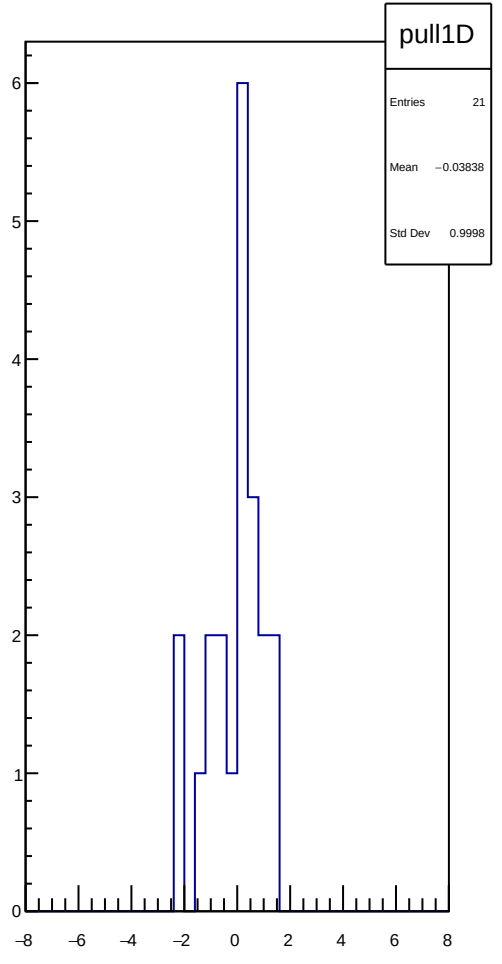

asym_atr1_rms vs run
χ² / ndf 9542 / 20
p0 3040 ± 4.945
11000
10000
9000
8000
7000
6000
5000
4000
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

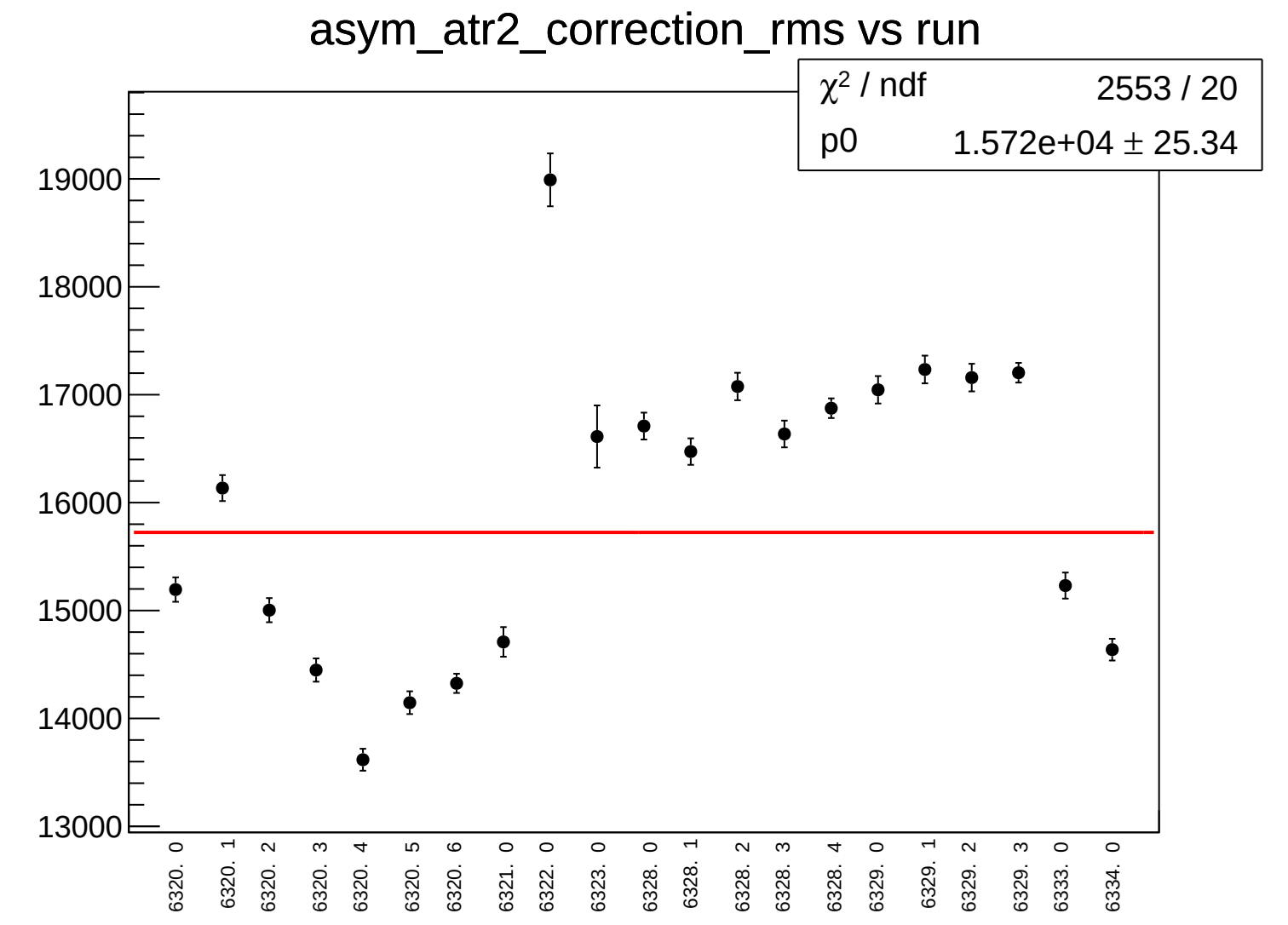

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 13.64 / 20
p0 672.1 ± 9886
250
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 131.6
Std Dev 117.4
1.5
1
0.5
0
−0.5
−1

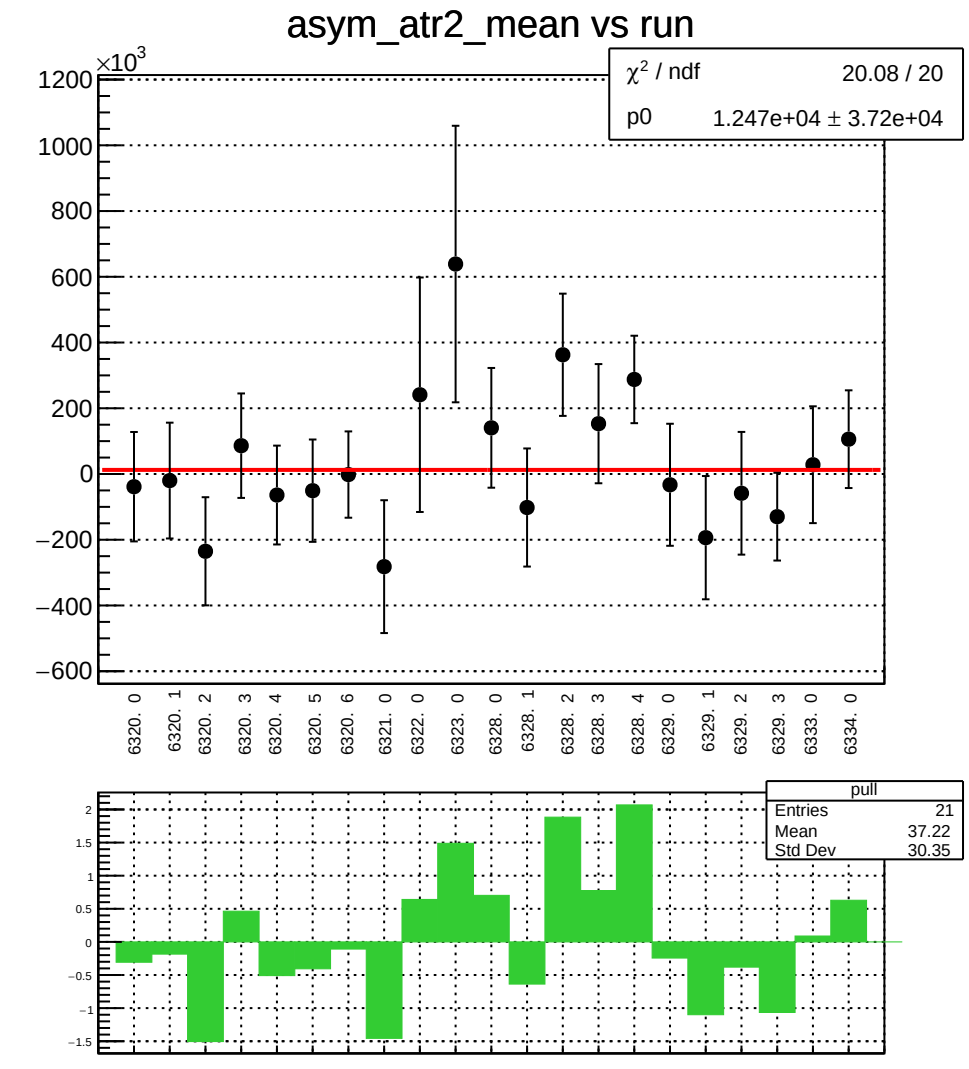

pull1D
Entries 21
Mean 0.01465
Std Dev 0.8059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

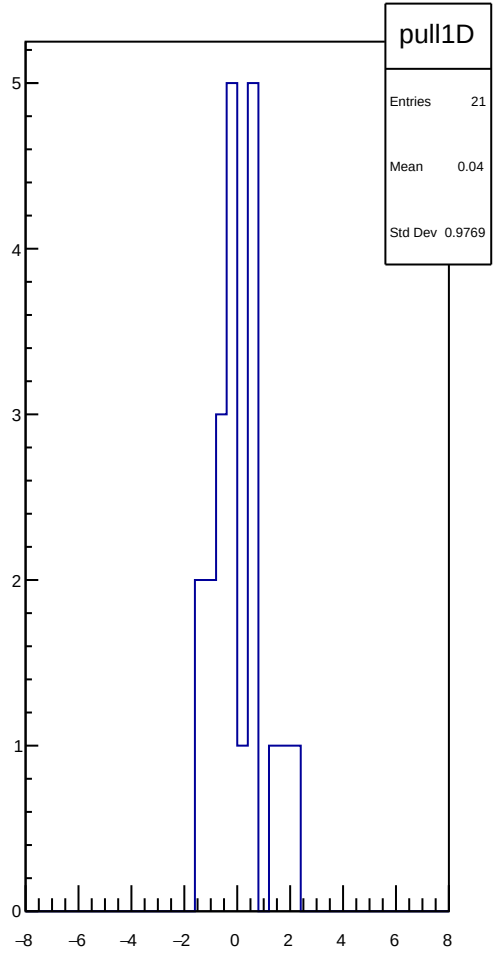

reg_asym_atr2_rms vs run
χ² / ndf 103.3 / 20
p0 4351 ± 6.99
4700
4600
4500
4400
4300
4200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

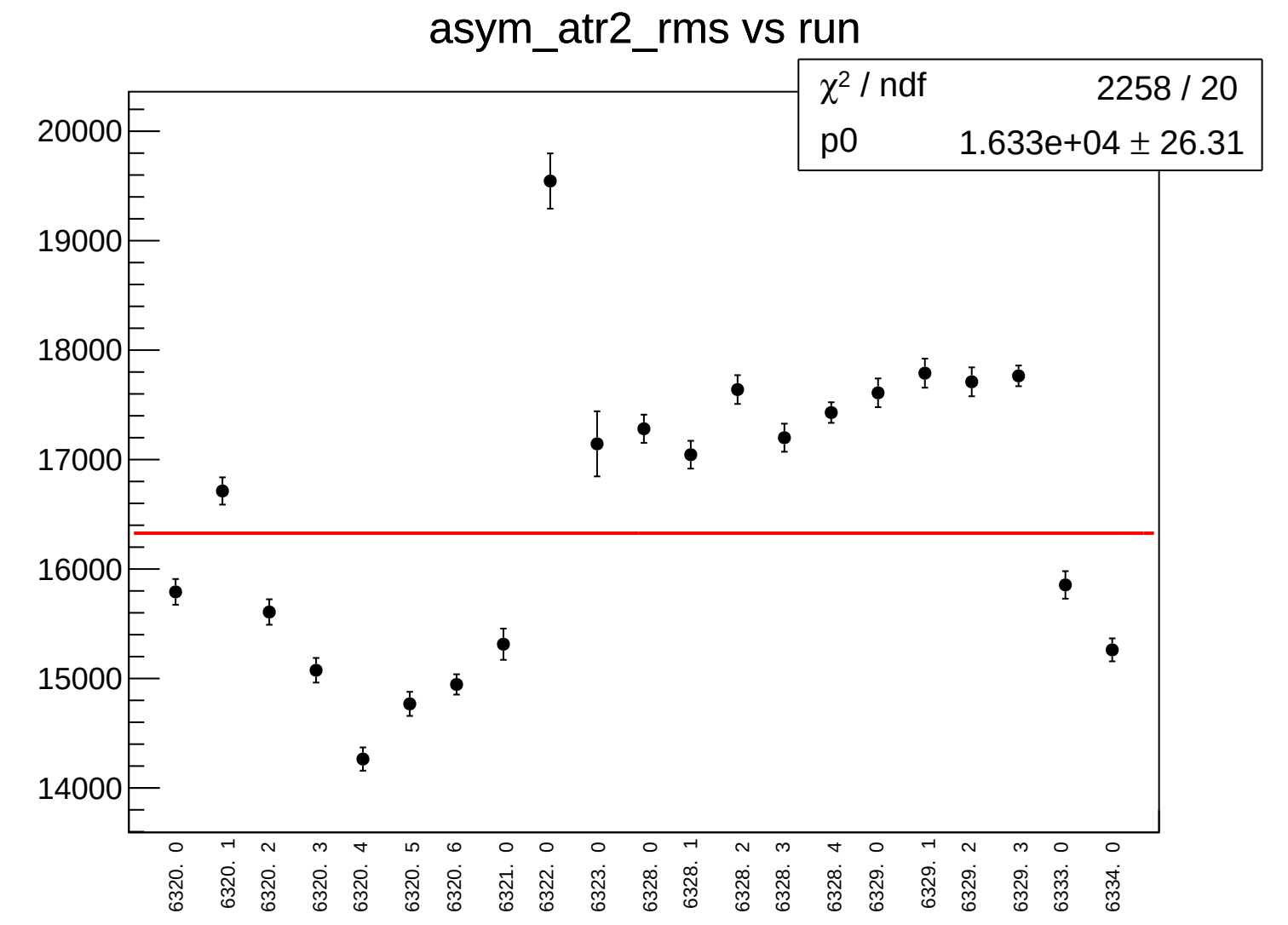

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 21.02 / 20
p0 −1.148e+04 ± 3.584e+04
400
200
0
−200
−400
−600
−800
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.15
Std Dev 23.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2

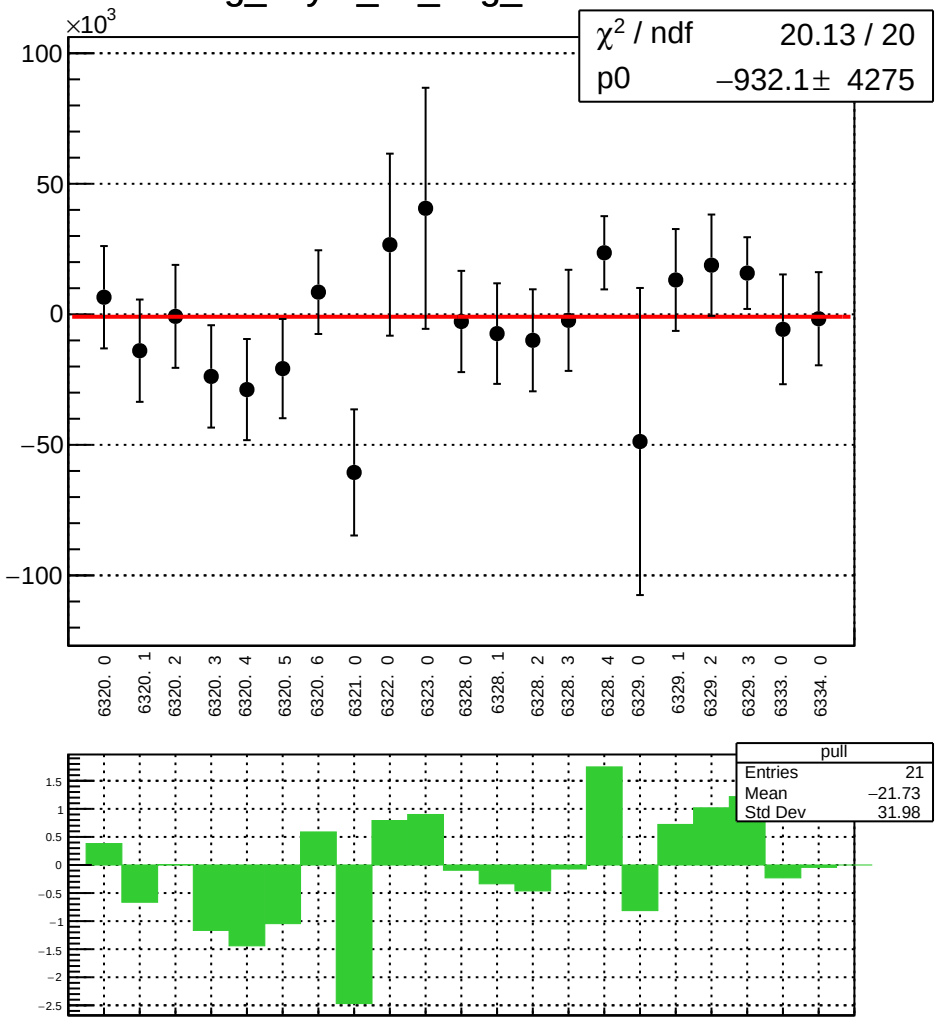

pull1D
Entries 21
Mean −0.03838
Std Dev 0.9998
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

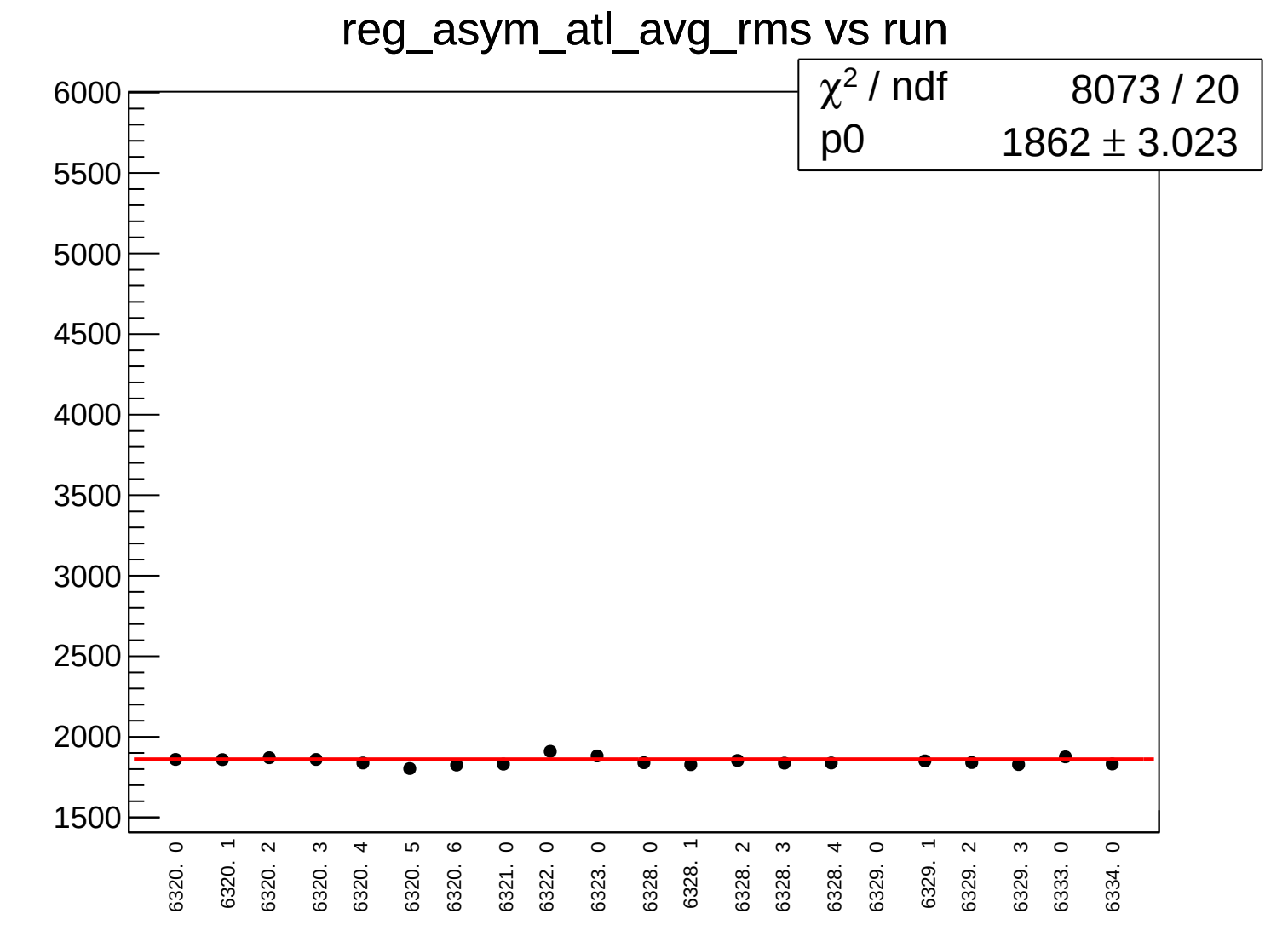

asym_atr2_correction_rms vs run
χ² / ndf 2553 / 20
p0 1.572e+04 ± 25.34
19000
18000
17000
16000
15000
14000
13000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

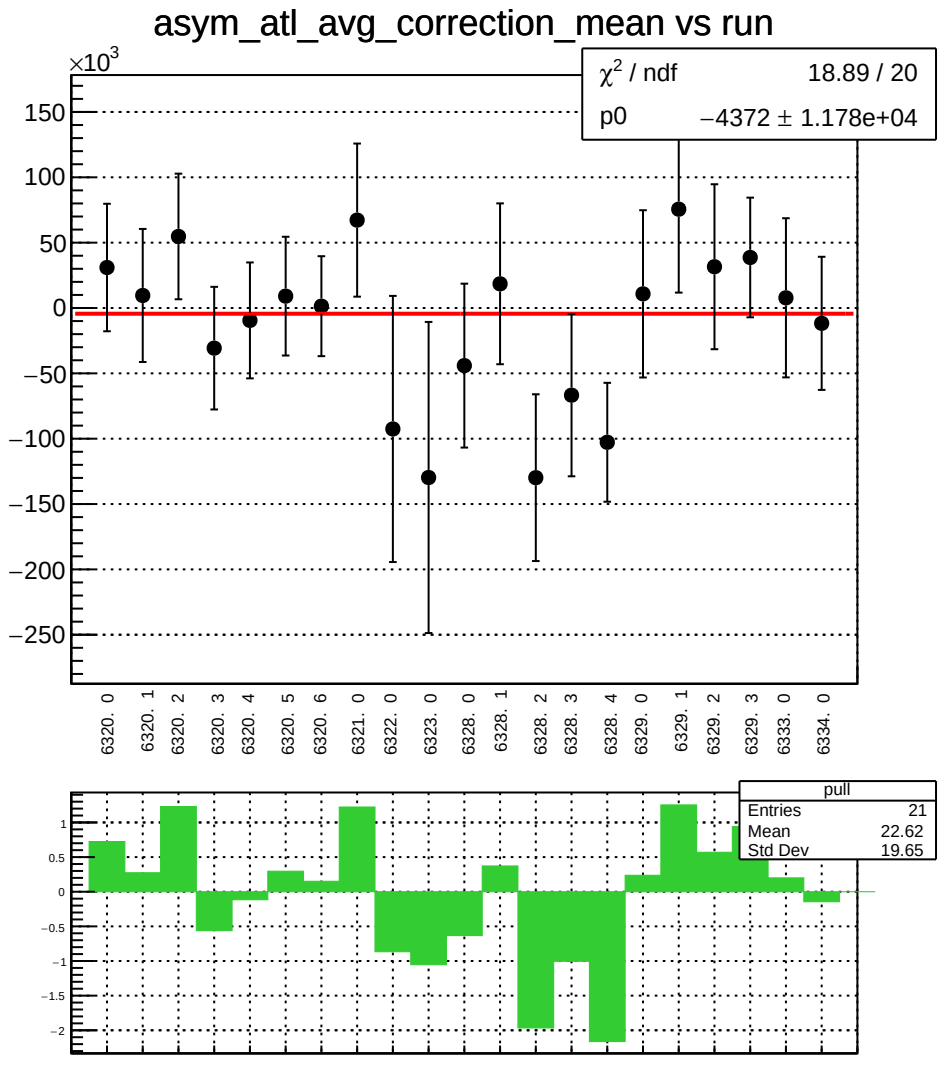

asym_atr2_mean vs run
×10^3
χ² / ndf 20.08 / 20
p0 1.247e+04 ± 3.72e+04
1200
1000
800
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 37.22
Std Dev 30.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

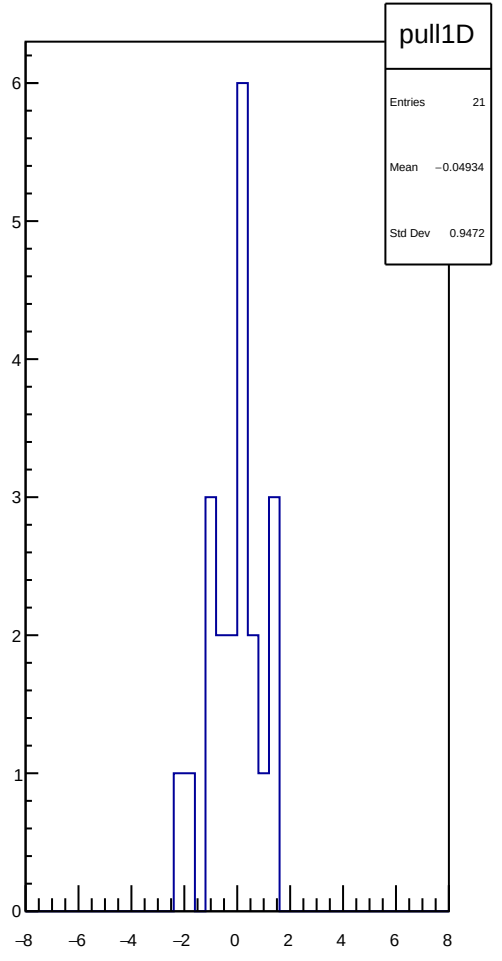

pull1D
Entries 21
Mean 0.04
Std Dev 0.9769
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

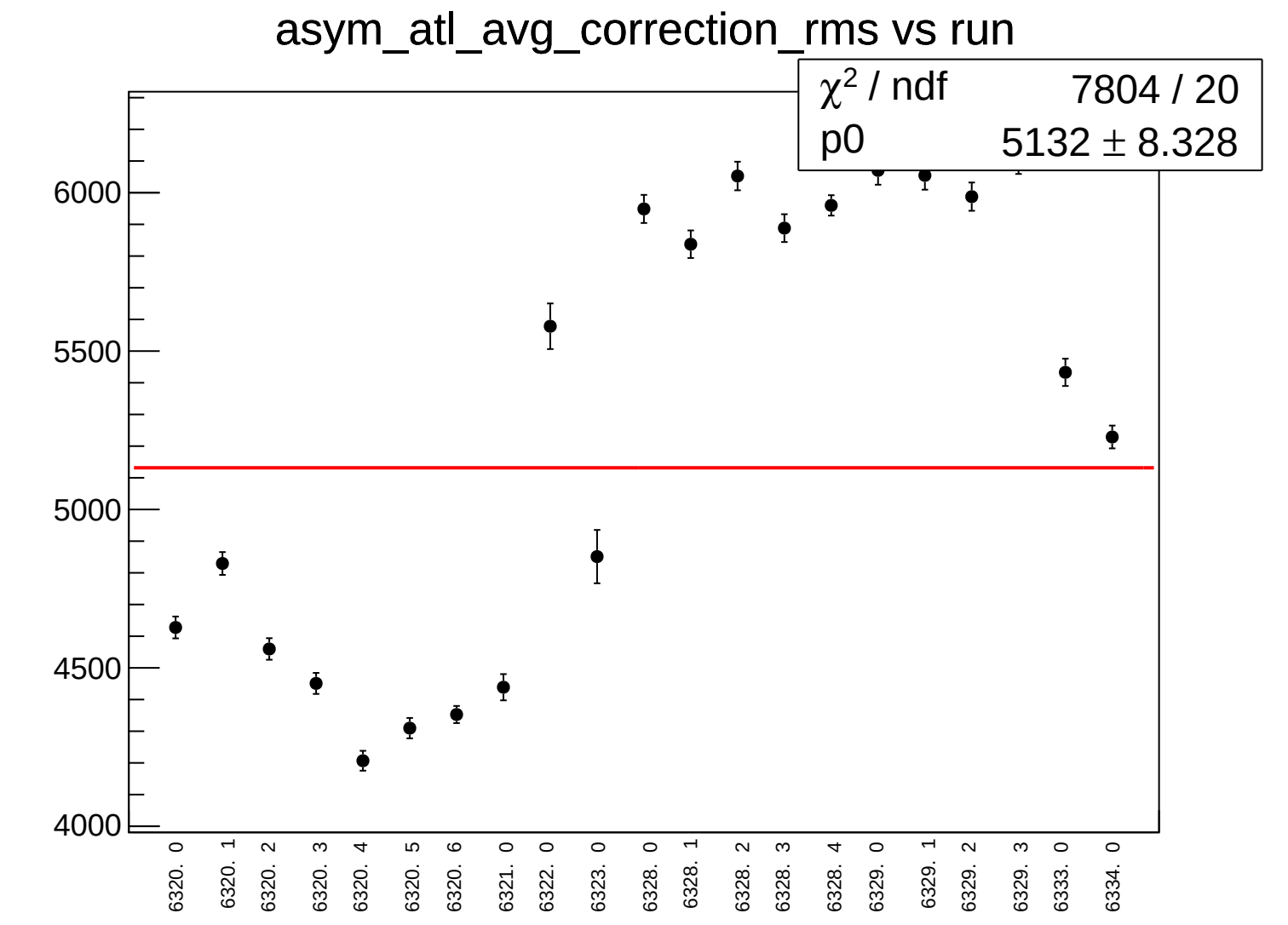

asym_atr2_rms vs run
χ² / ndf 2258 / 20
p0 1.633e+04 ± 26.31
20000
19000
18000
17000
16000
15000
14000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

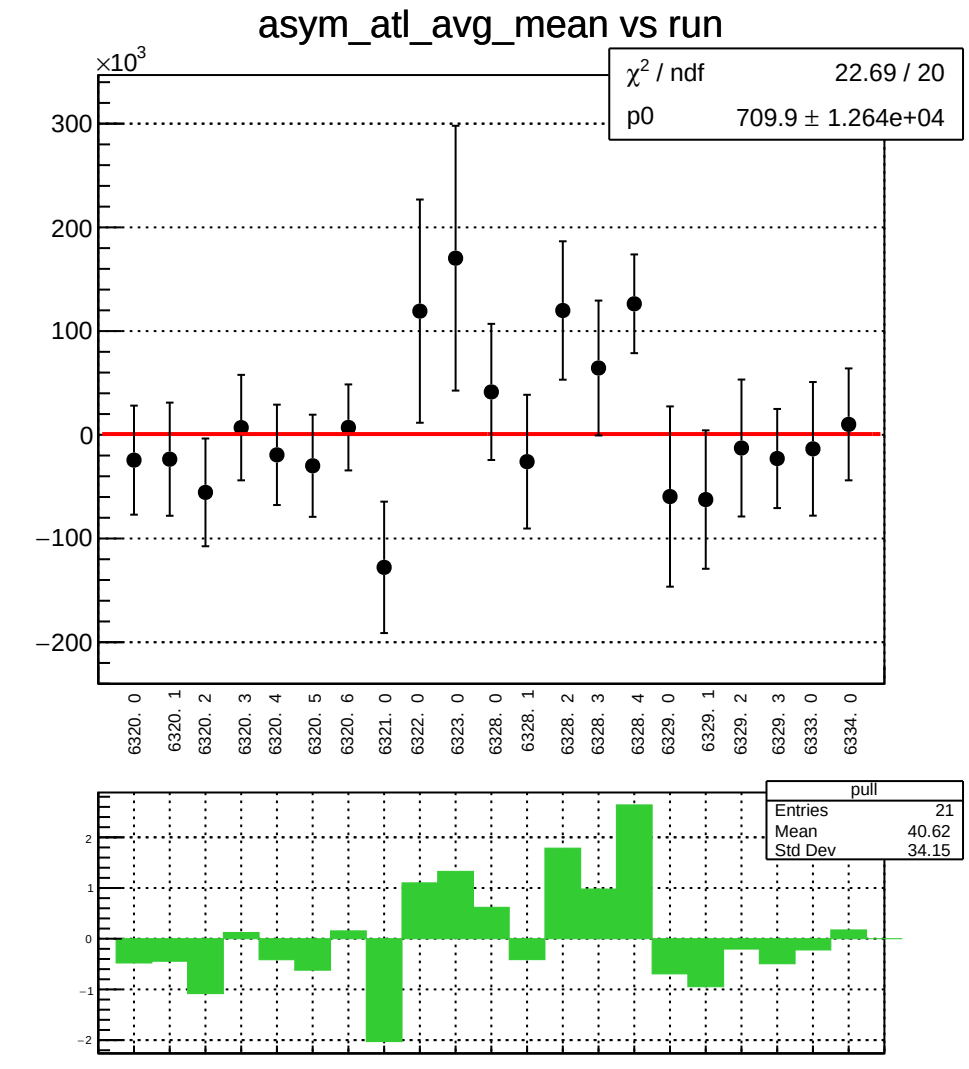

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 20.13 / 20
p0 −932.1± 4275
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.73
Std Dev 31.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.06923
Std Dev 0.9767
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

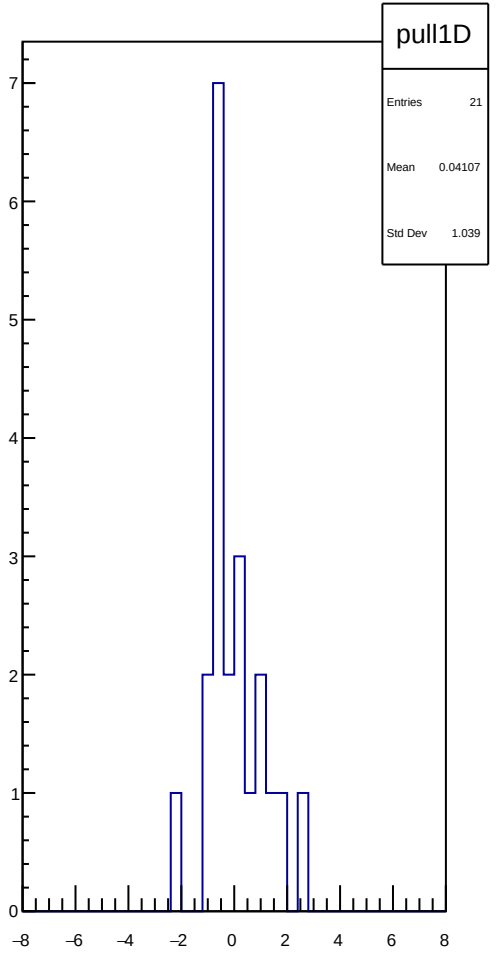

reg_asym_atl_avg_rms vs run
χ² / ndf 8073 / 20
p0 1862 ± 3.023
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

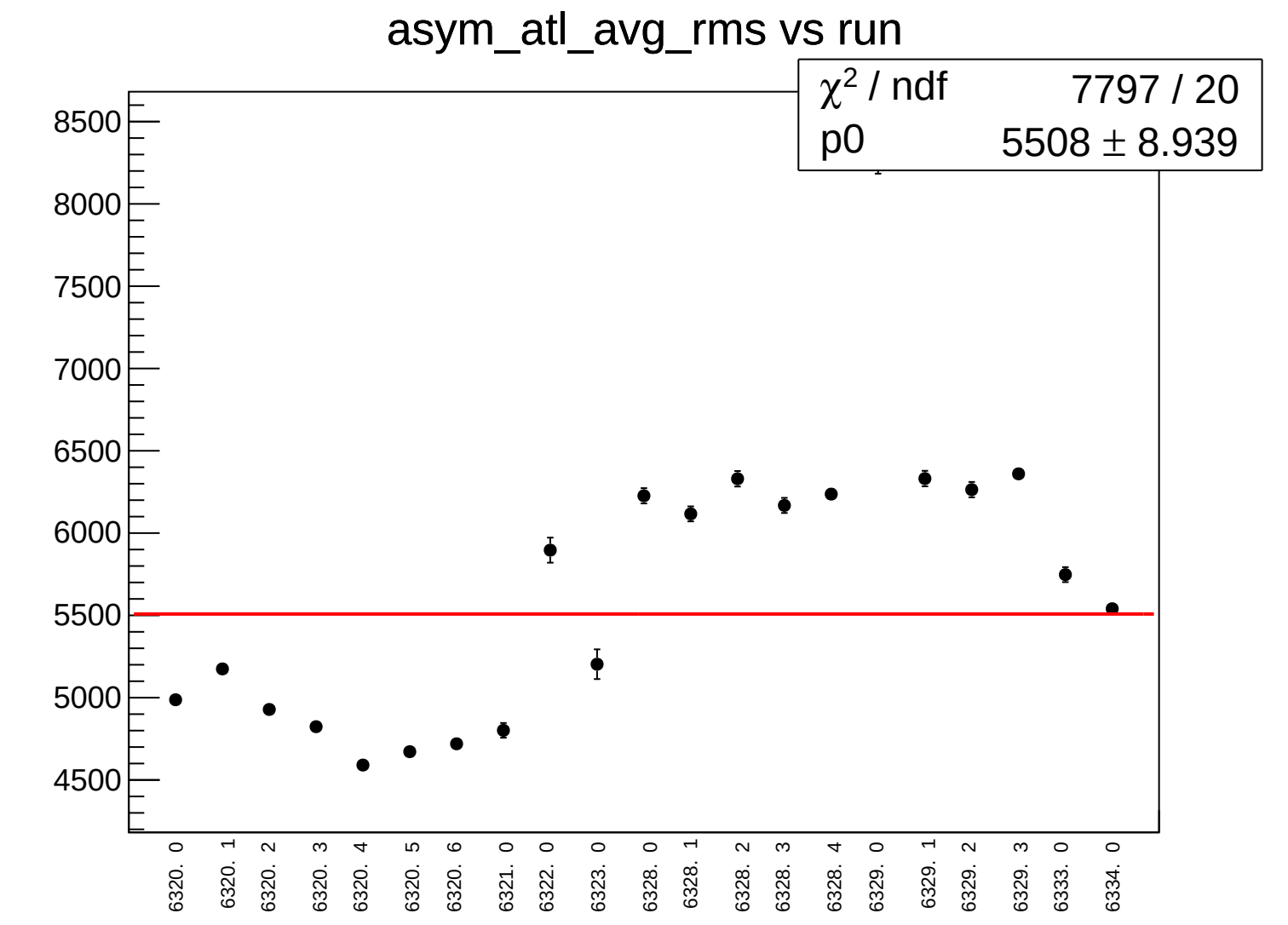

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 18.89 / 20
p0 −4372 ± 1.178e+04
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 22.62
Std Dev 19.65
1
0.5
0
−0.5
−1
−1.5
−2

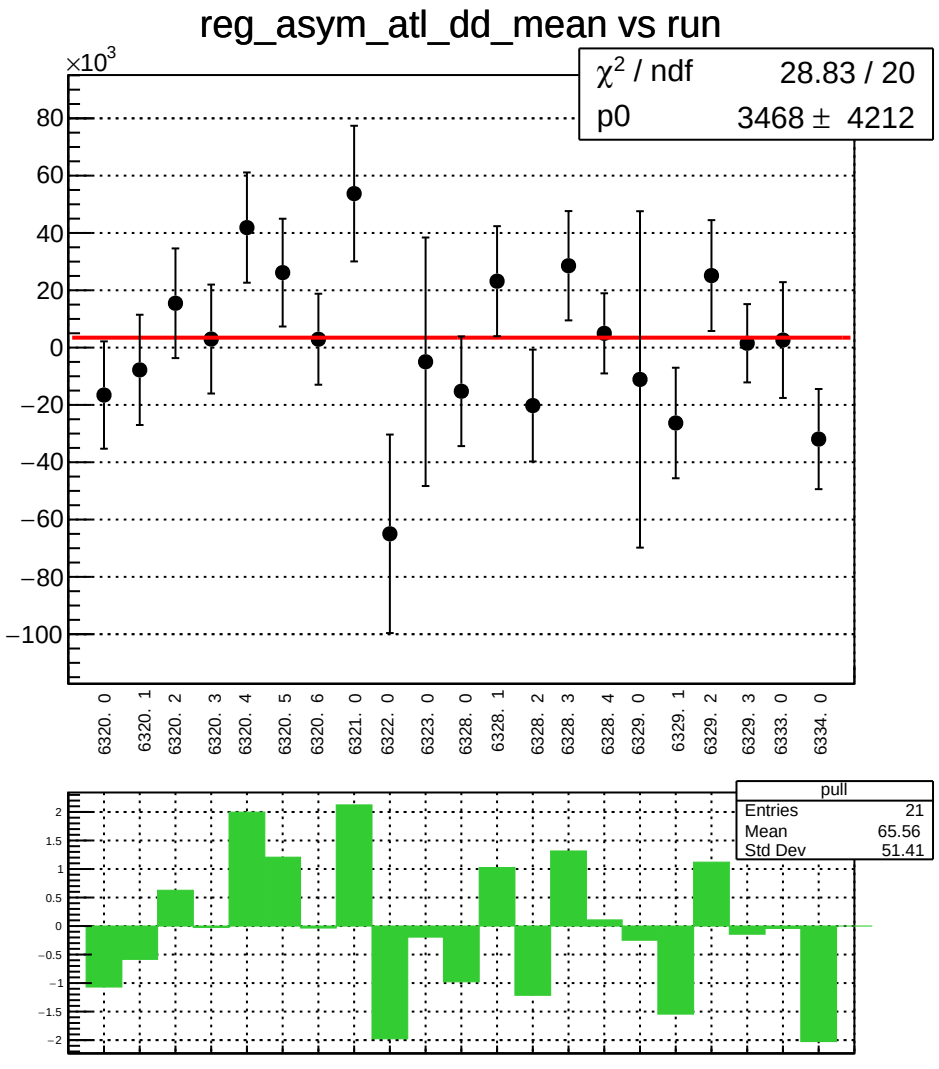

pull1D
Entries 21
Mean −0.04934
Std Dev 0.9472
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

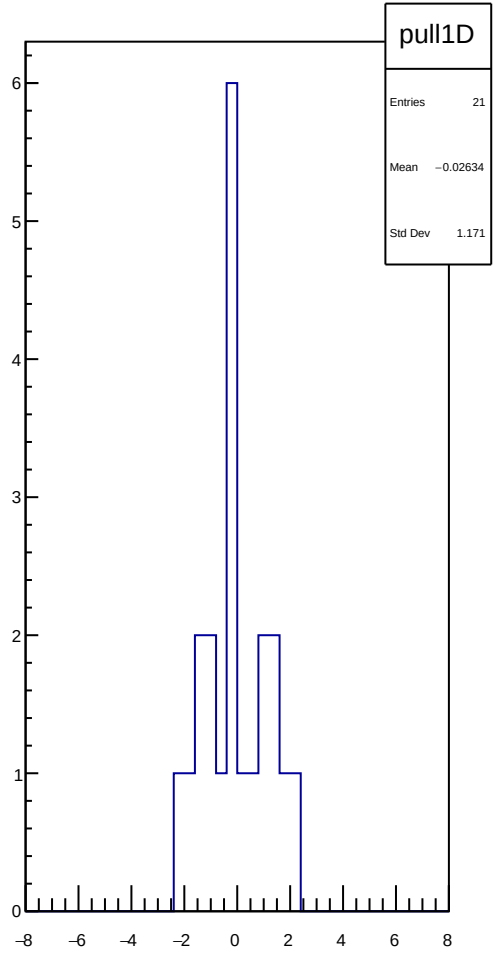

asym_atl_avg_correction_rms vs run
χ² / ndf 7804 / 20
p0 5132 ± 8.328
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

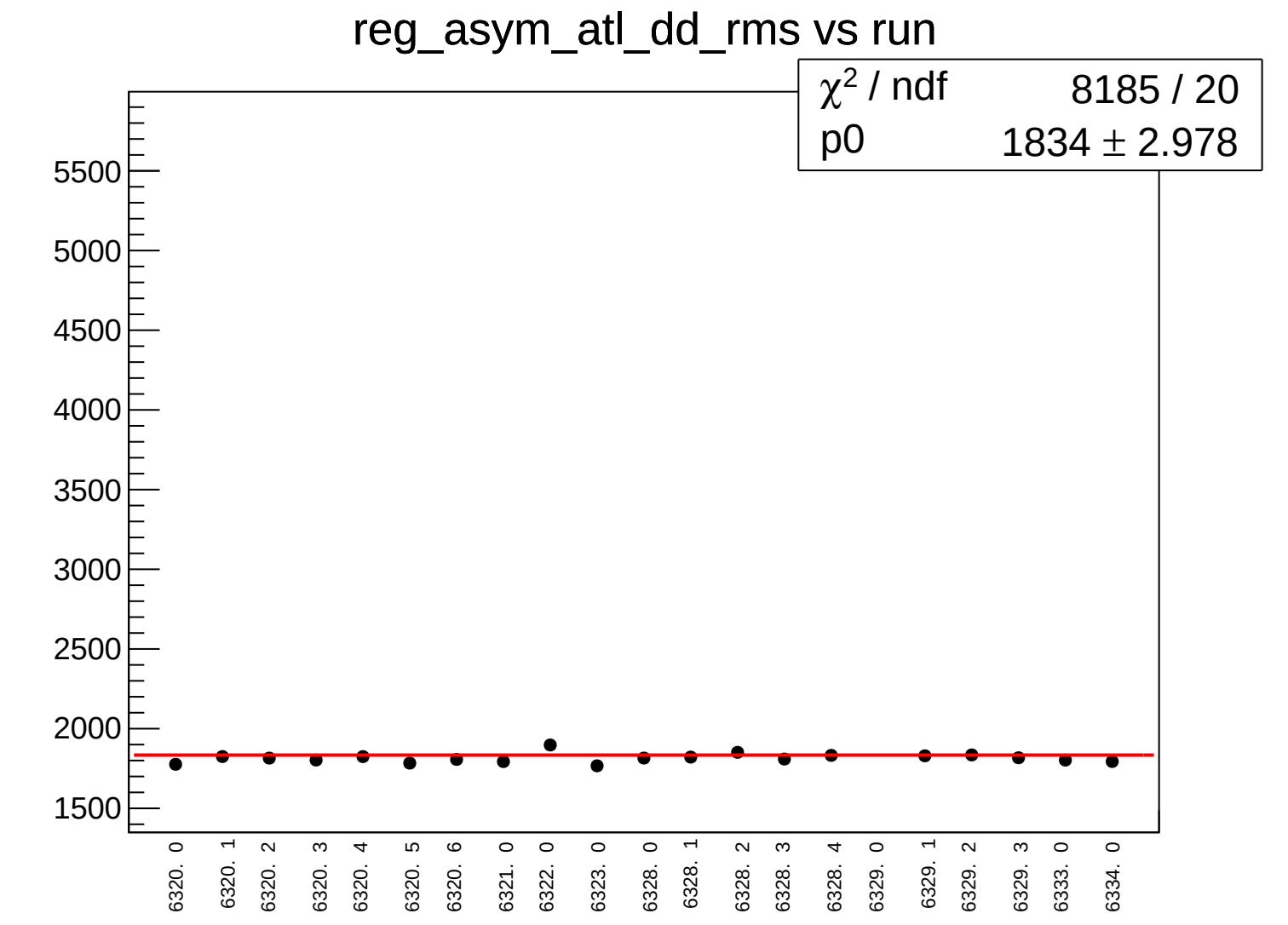

asym_atl_avg_mean vs run
×10^3
χ² / ndf 22.69 / 20
p0 709.9 ± 1.264e+04
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.62
Std Dev 34.15
2
1
0
−1
−2

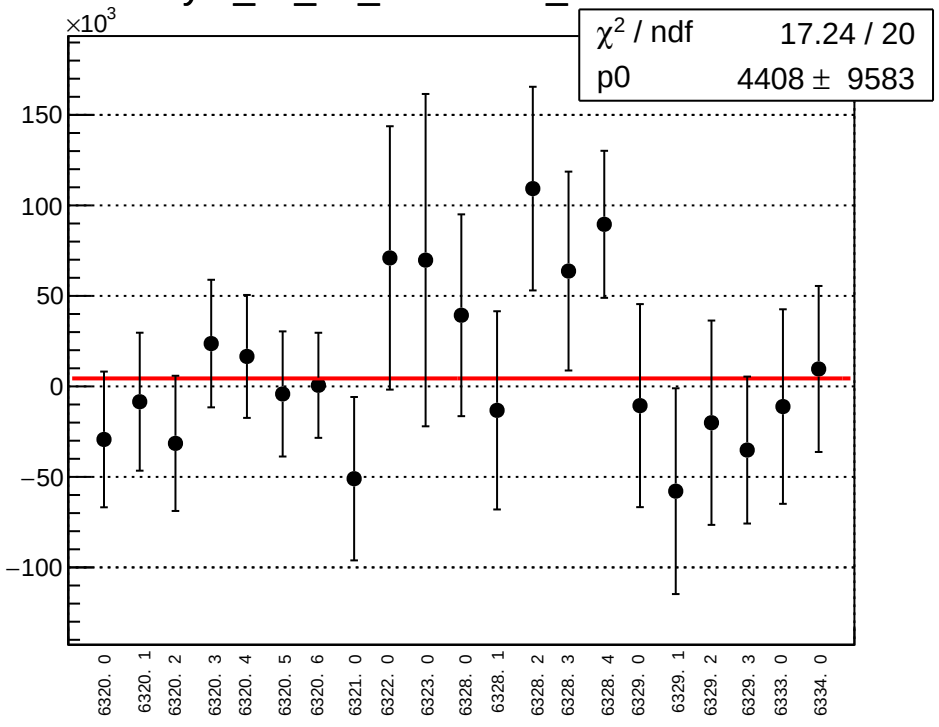

pull1D
Entries 21
Mean 0.04107
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

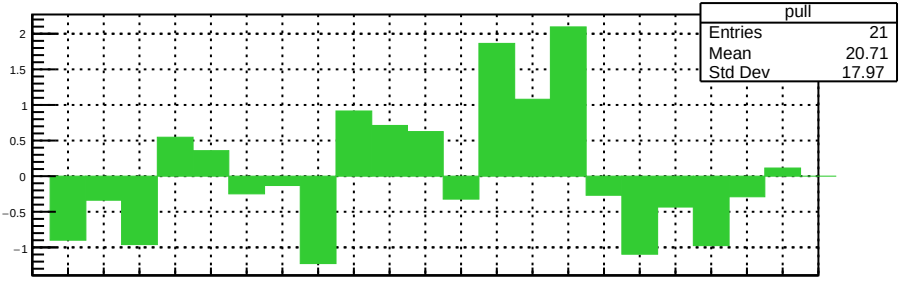

asym_atl_avg_rms vs run
χ² / ndf 7797 / 20
p0 5508 ± 8.939
8500
8000
7500
7000
6500
6000
5500
5000
4500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

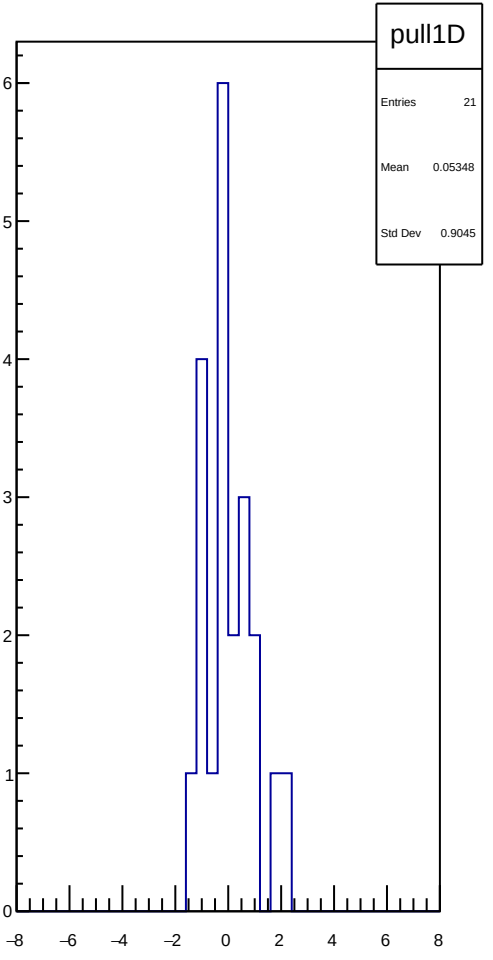

reg_asym_atl_dd_mean vs run
χ² / ndf 28.83 / 20
p0 3468 ± 4212
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 65.56
Std Dev 51.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

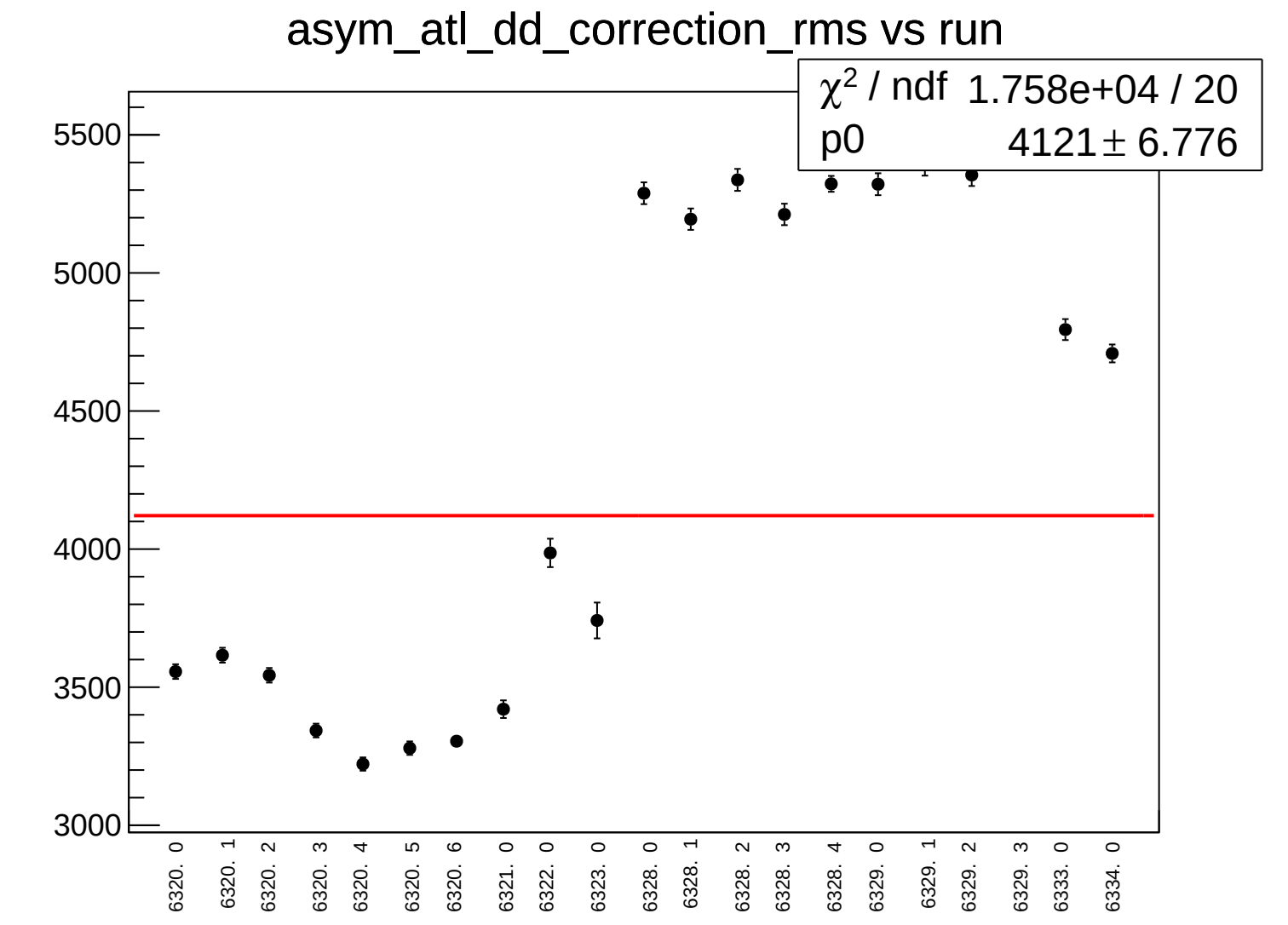

pull1D
Entries 21
Mean −0.02634
Std Dev 1.171
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

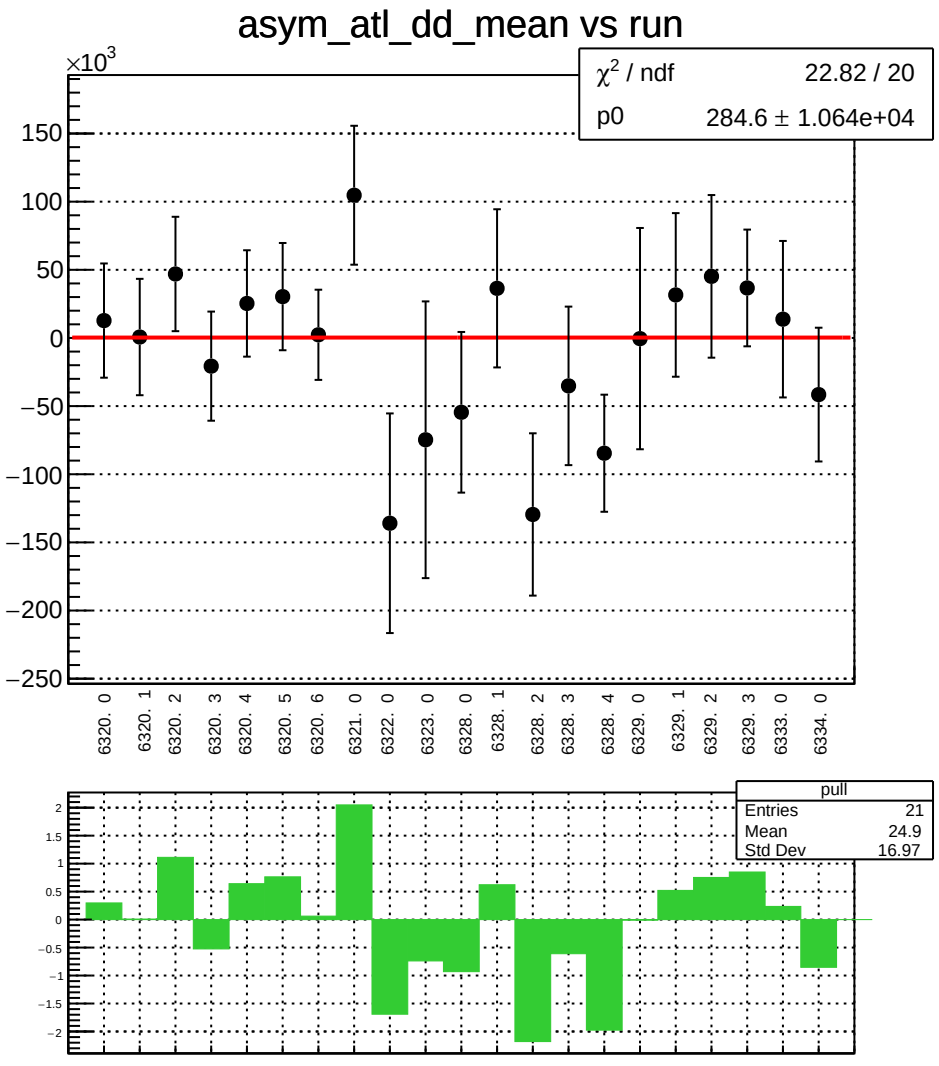

reg_asym_atl_dd_rms vs run
χ² / ndf 8185 / 20
p0 1834 ± 2.978
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

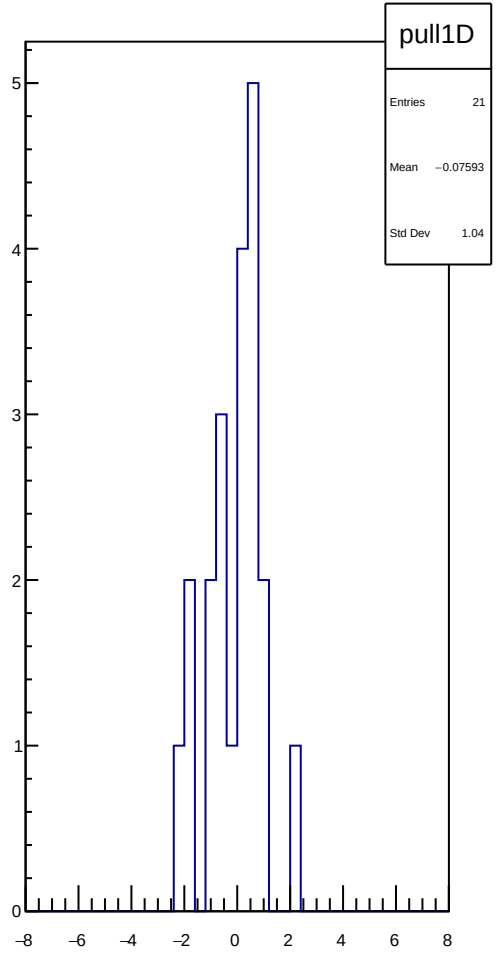

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 17.24 / 20
p0 4408 ± 9583
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

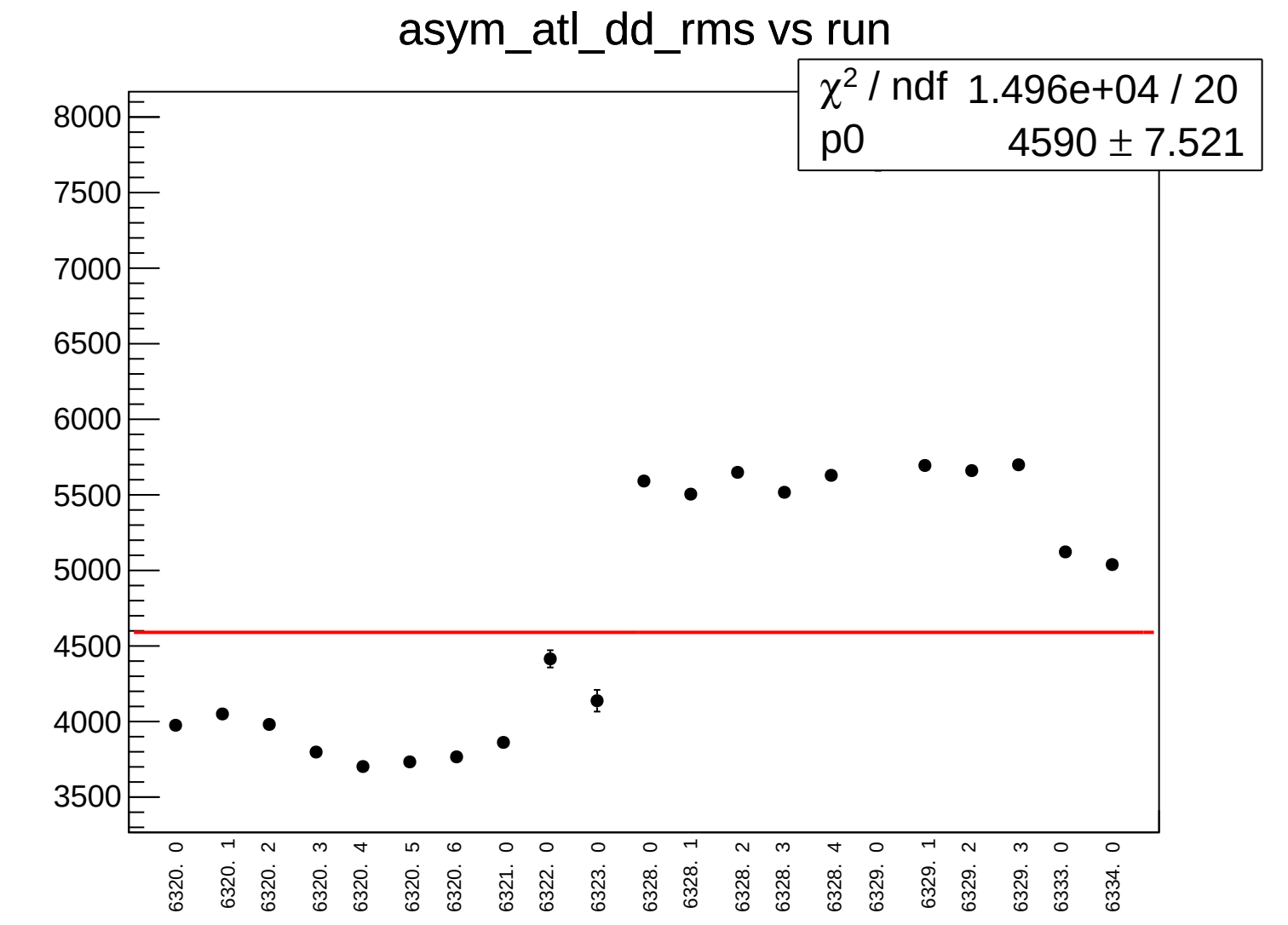

pull
Entries 21
Mean 20.71
Std Dev 17.97
2
1.5
1
0.5
0
−0.5
−1

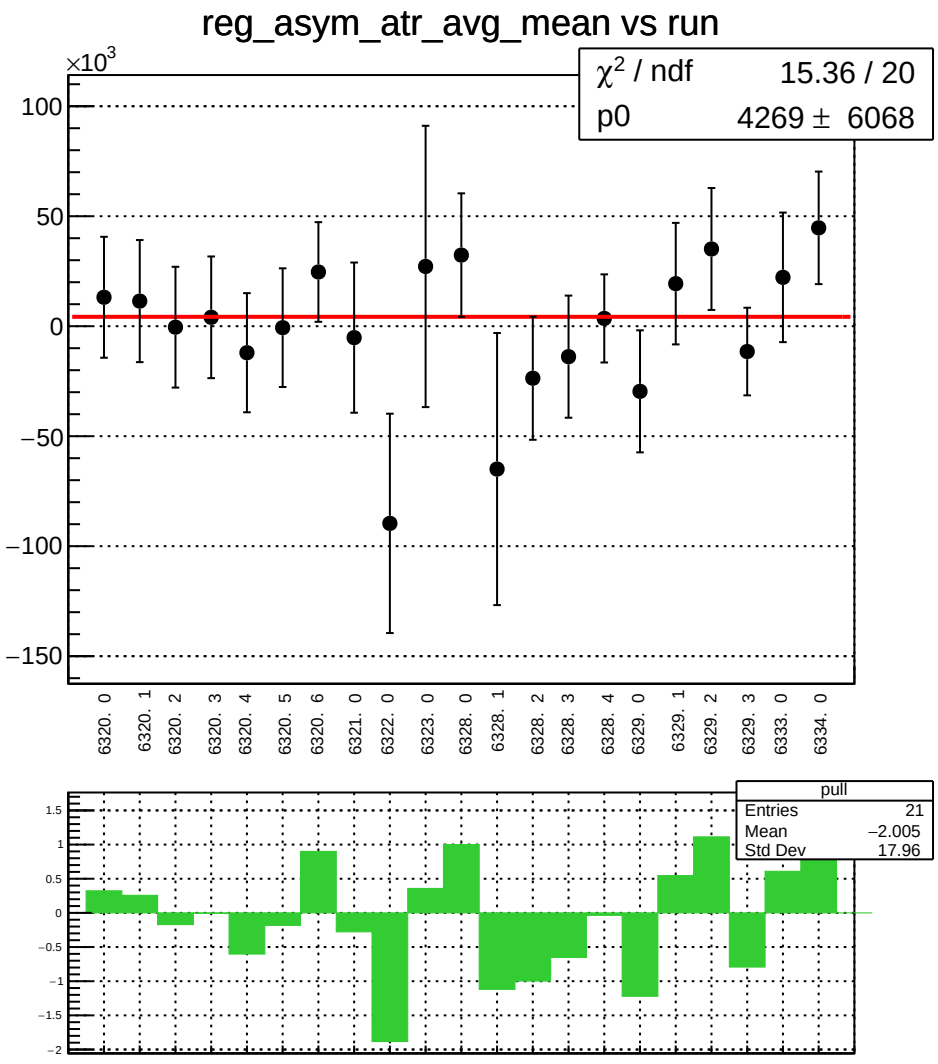

pull1D
Entries 21
Mean 0.05348
Std Dev 0.9045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

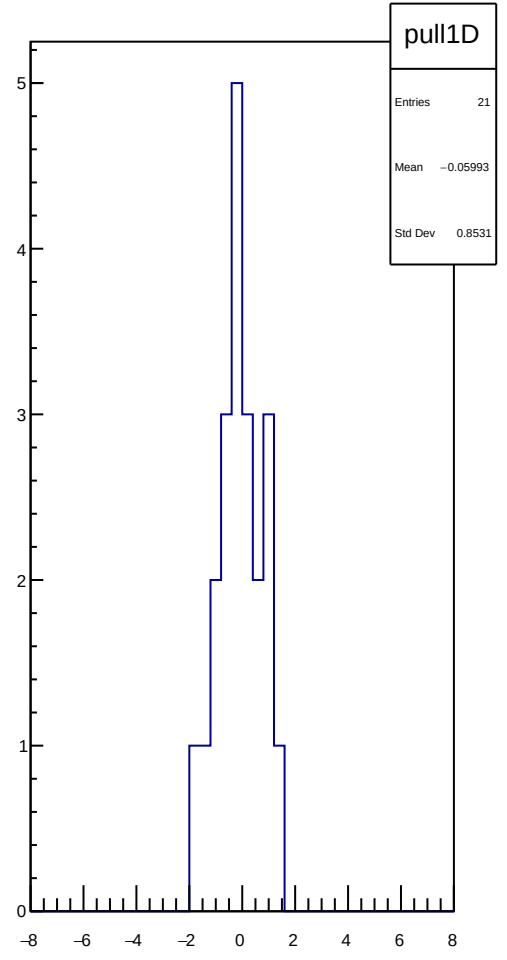

asym_atl_dd_correction_rms vs run
χ² / ndf 1.758e+04 / 20
p0 4121 ± 6.776
5500
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

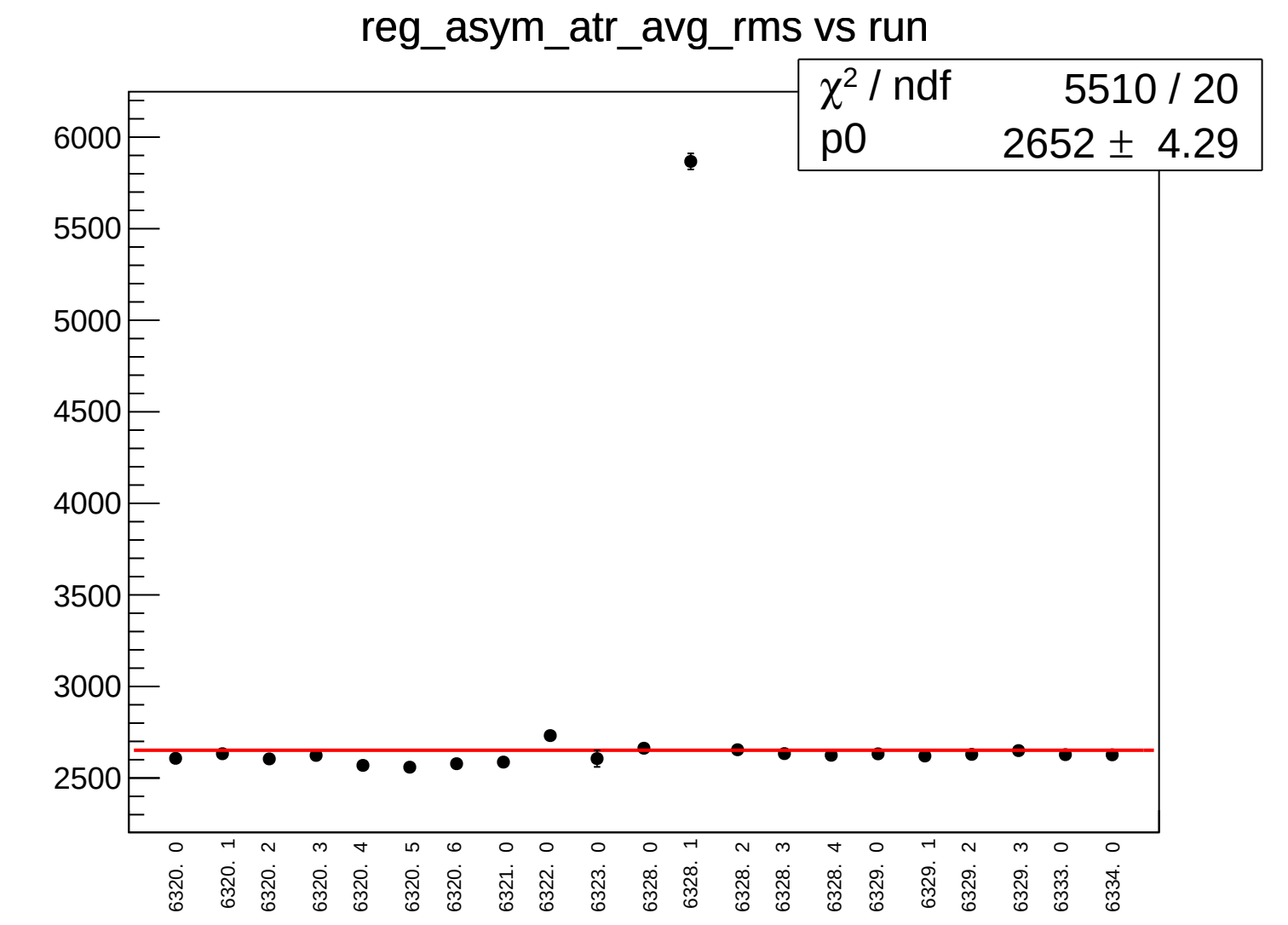

asym_atl_dd_mean vs run
×10^3
χ² / ndf 22.82 / 20
p0 284.6 ± 1.064e+04
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.9
Std Dev 16.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

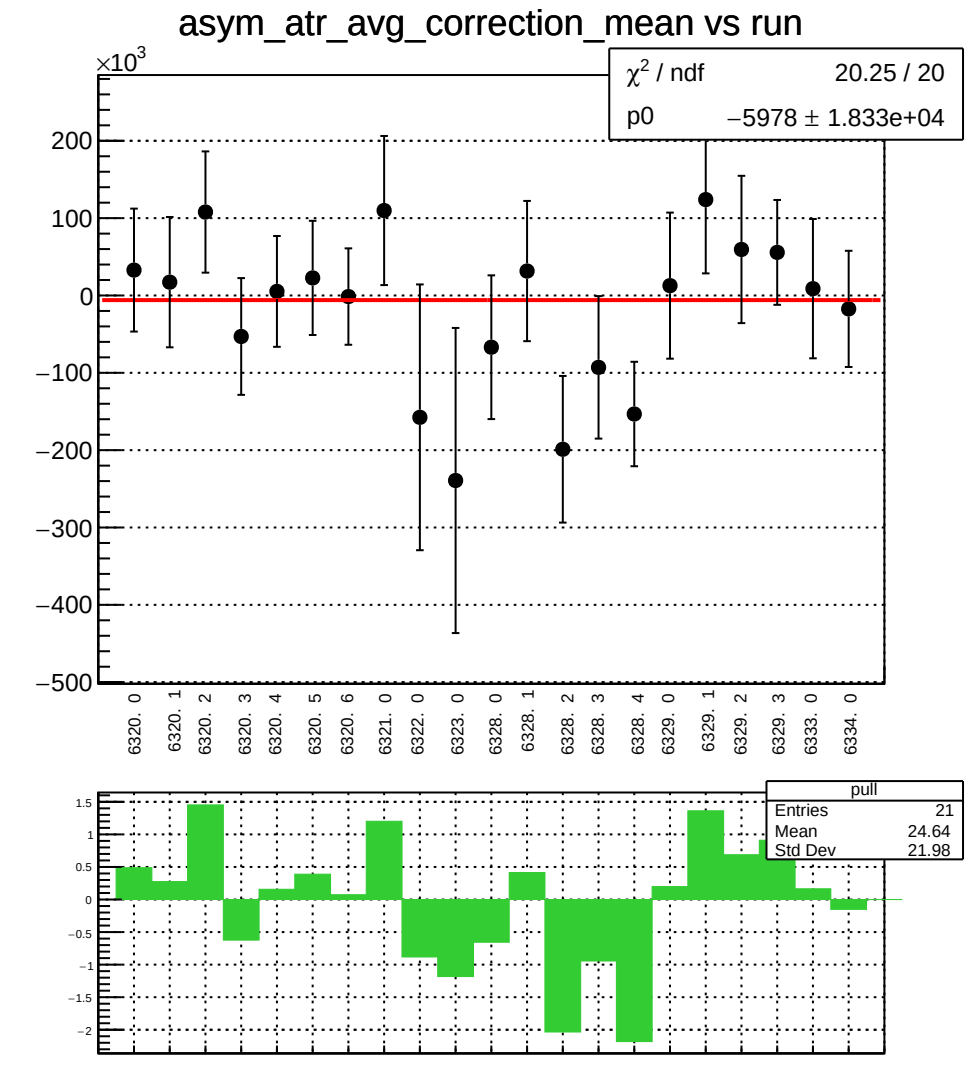

pull1D
Entries 21
Mean −0.07593
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

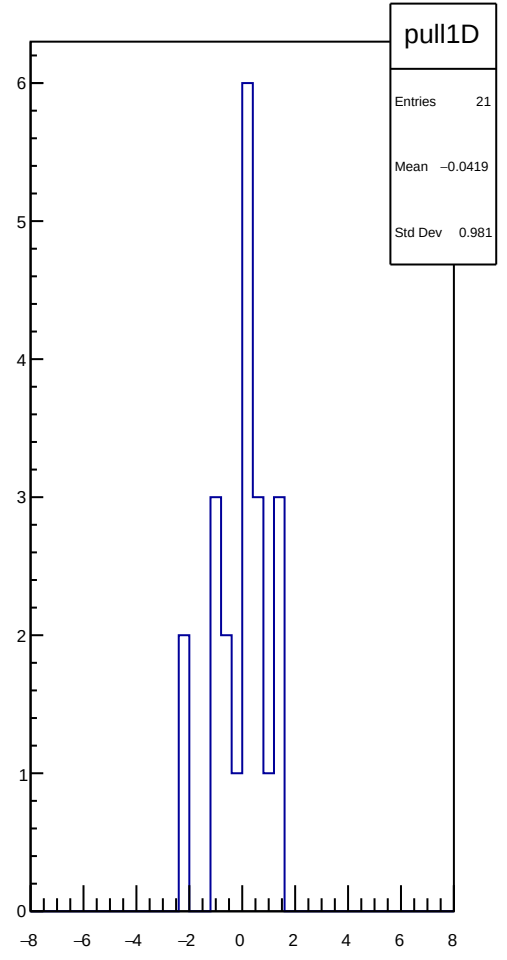

asym_atl_dd_rms vs run
χ² / ndf 1.496e+04 / 20
p0 4590 ± 7.521
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

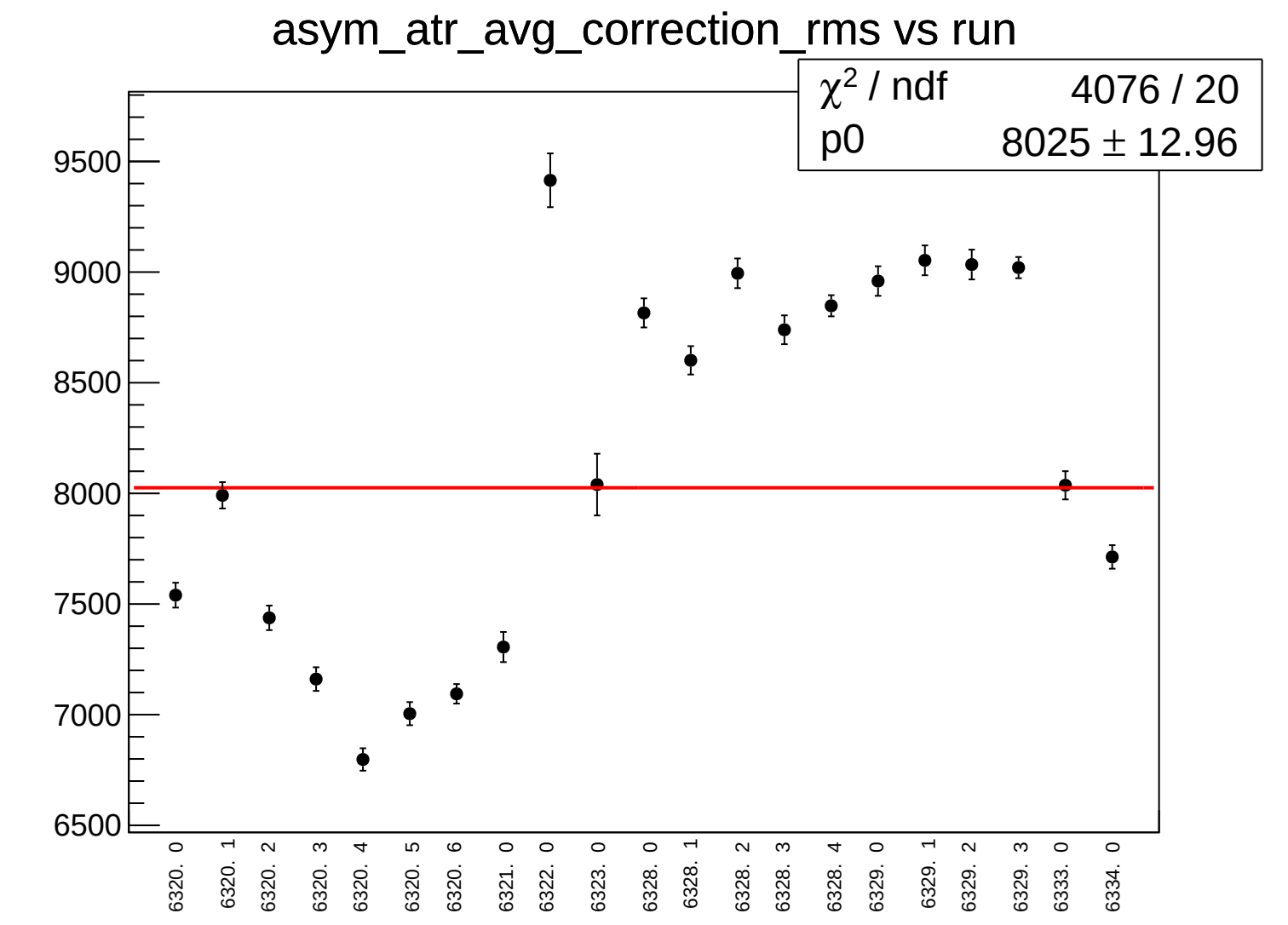

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 15.36 / 20
p0 4269 ± 6068
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.005
Std Dev 17.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2

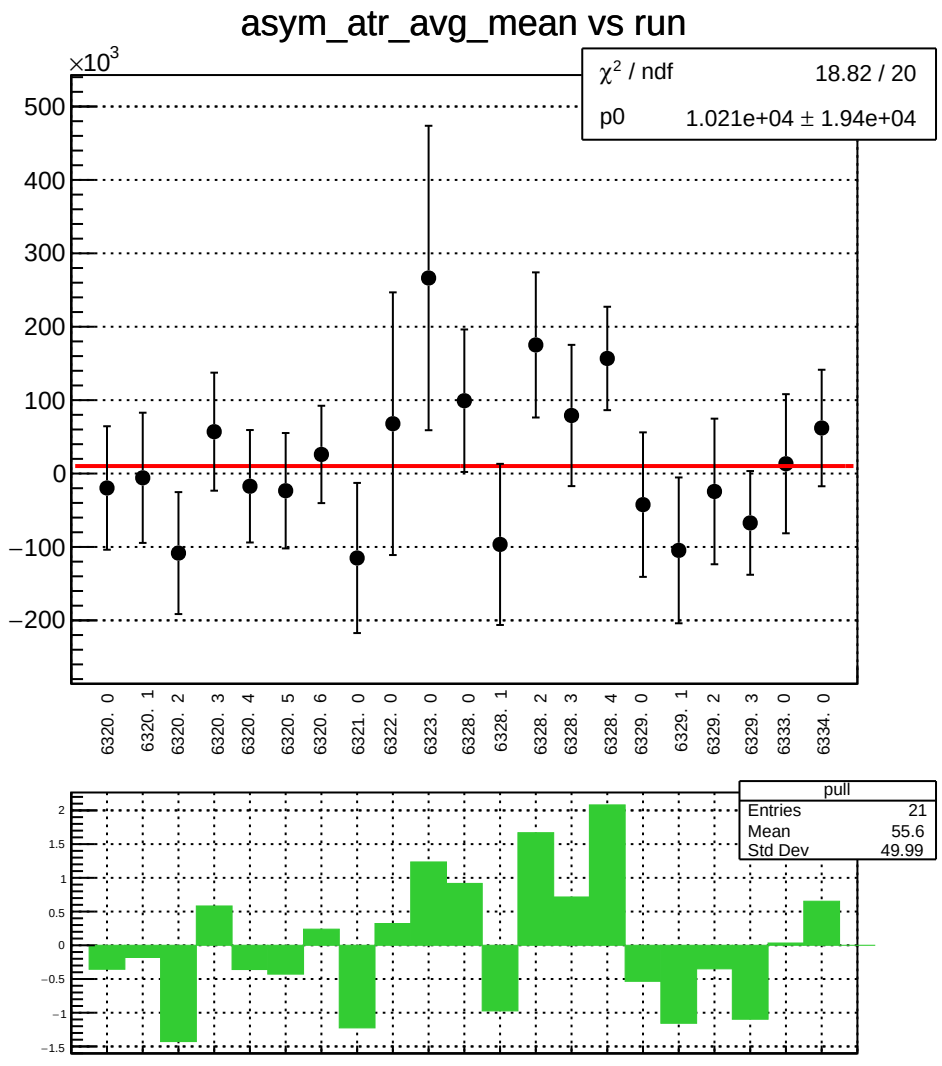

pull1D
Entries 21
Mean −0.05993
Std Dev 0.8531
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

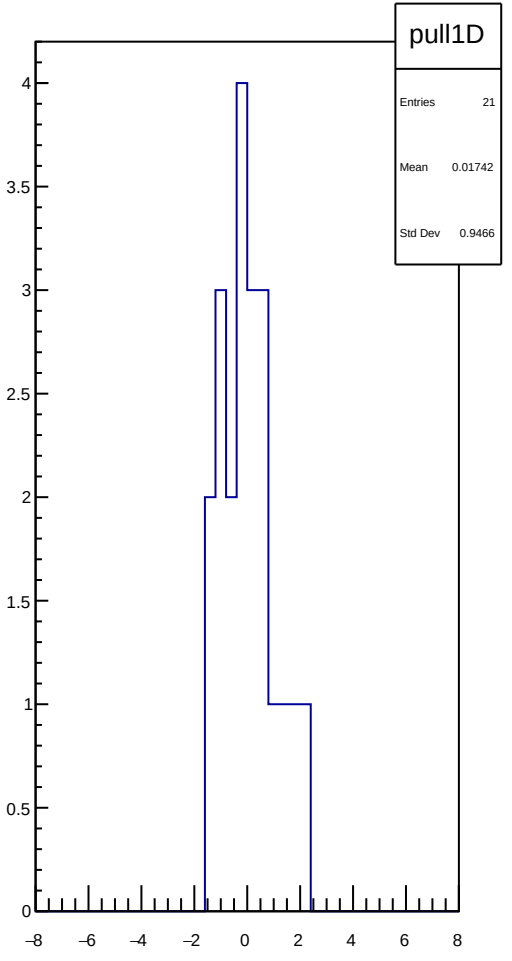

reg_asym_atr_avg_rms vs run
χ² / ndf 5510 / 20
p0 2652 ± 4.29
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

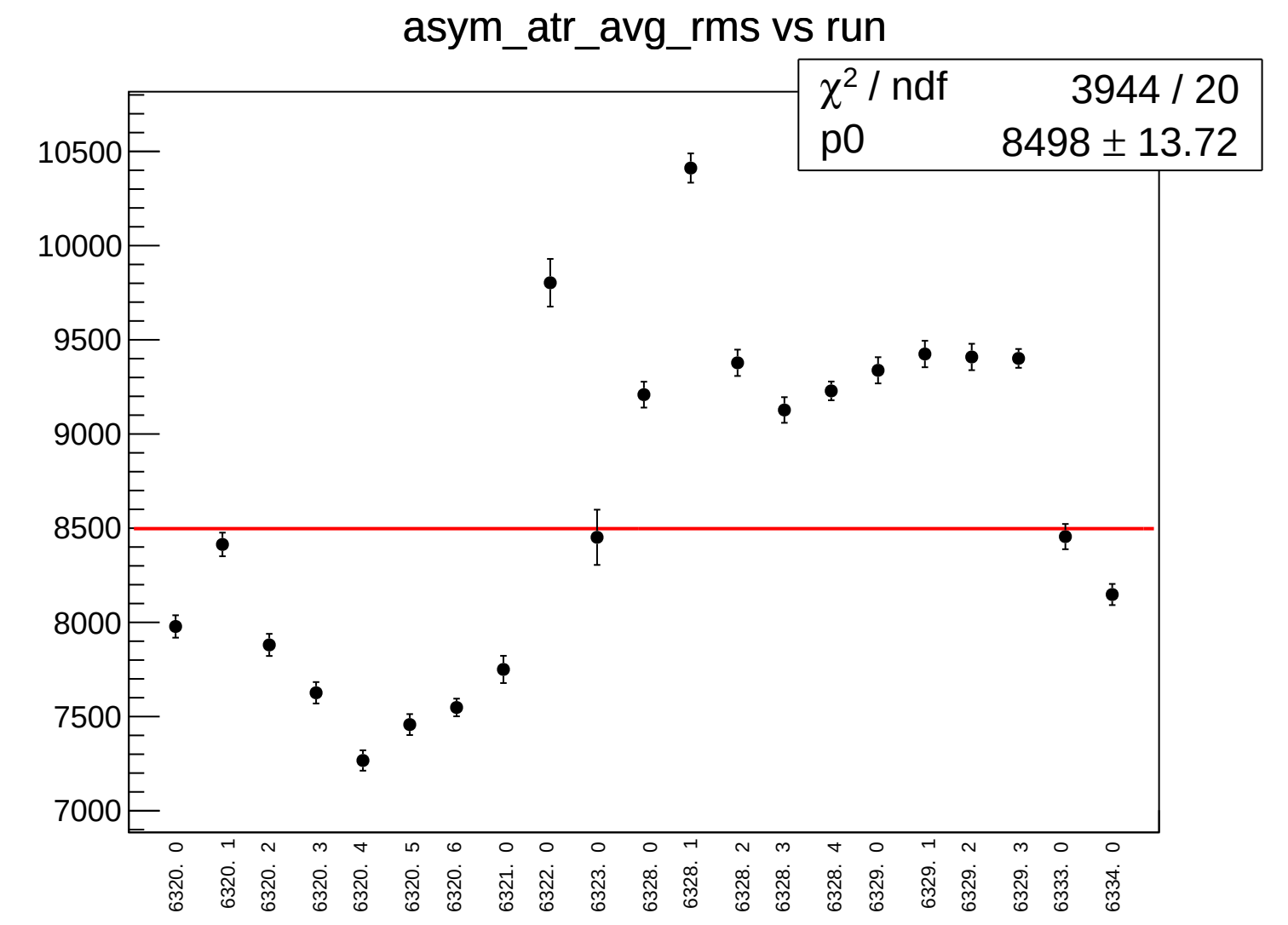

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 20.25 / 20
p0 −5978 ± 1.833e+04
200
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.64
Std Dev 21.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2

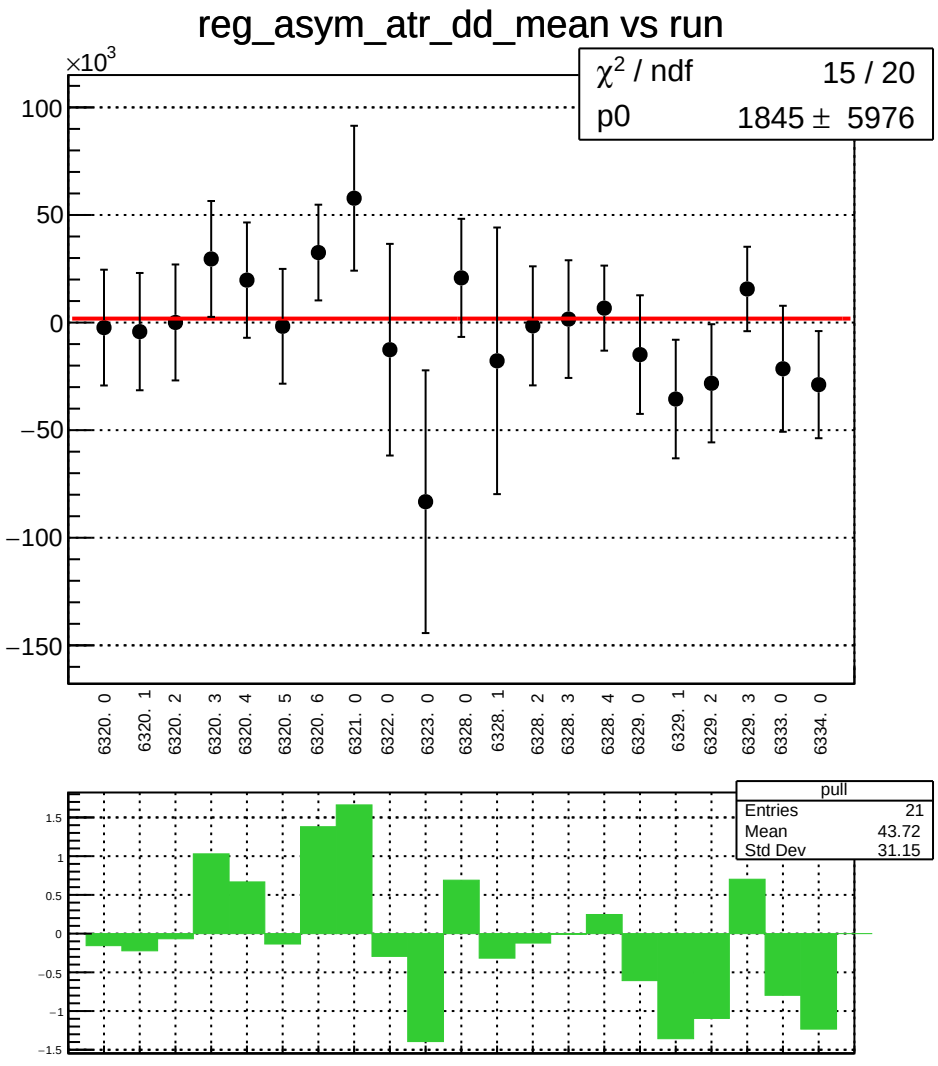

pull1D
Entries 21
Mean −0.0419
Std Dev 0.981
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

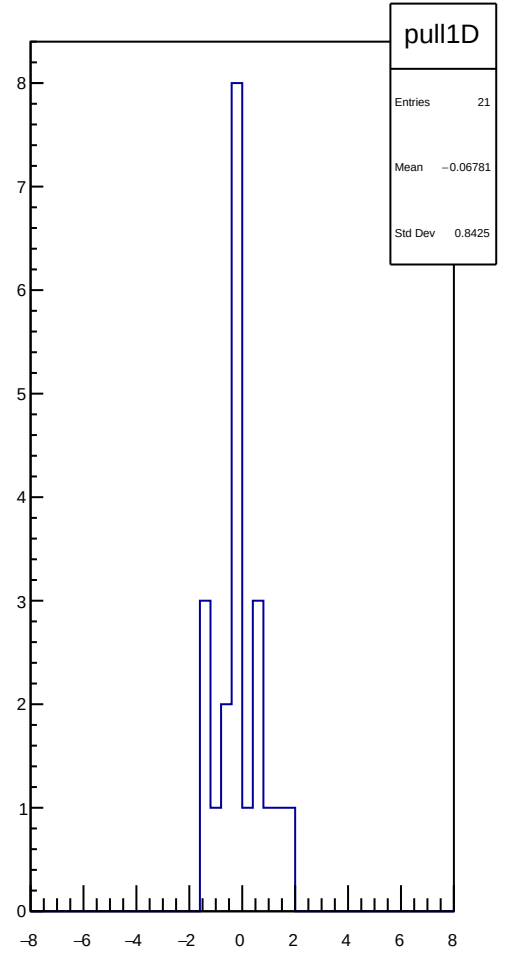

asym_atr_avg_correction_rms vs run
χ² / ndf 4076 / 20
p0 8025 ± 12.96
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

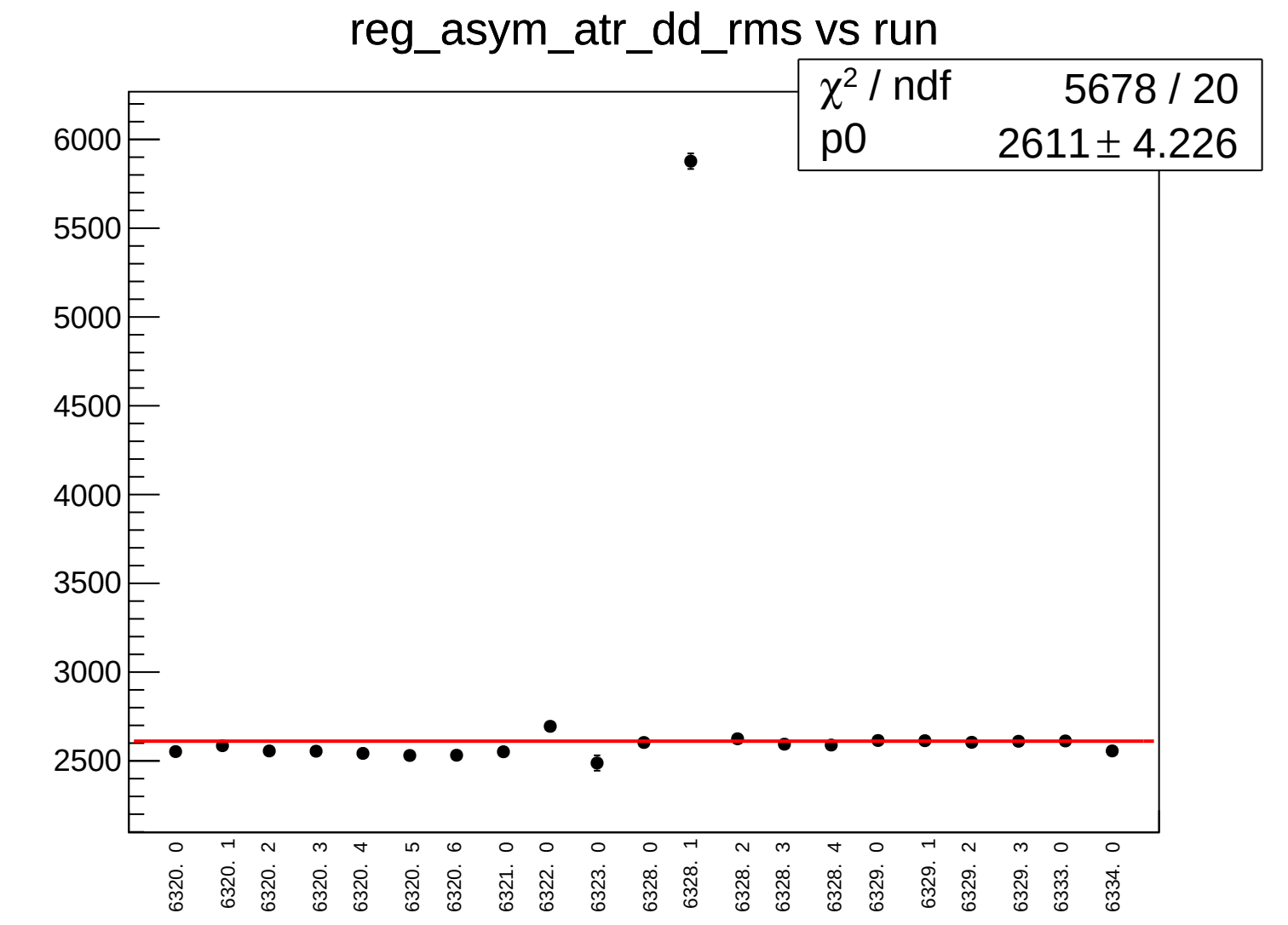

asym_atr_avg_mean vs run
×10^3
χ² / ndf 18.82 / 20
p0 1.021e+04 ± 1.94e+04
500
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 55.6
Std Dev 49.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

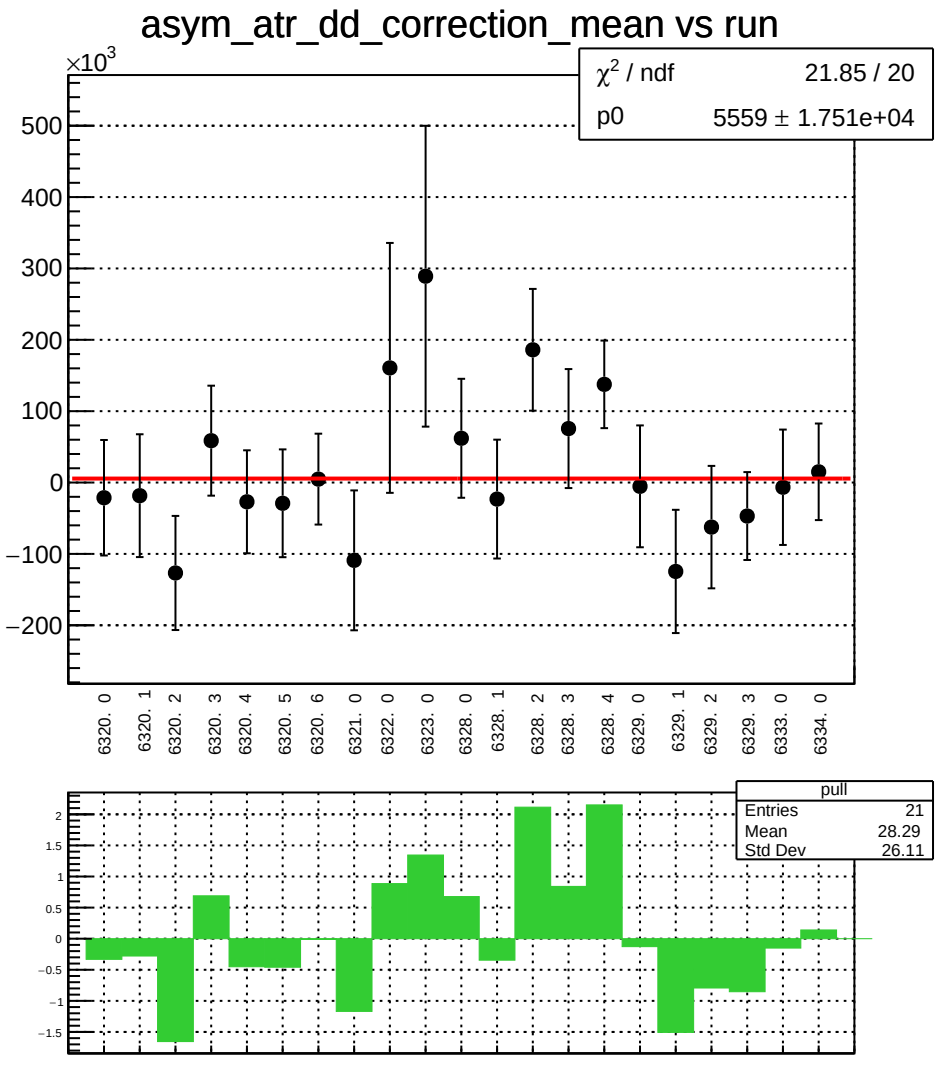

pull1D
Entries 21
Mean 0.01742
Std Dev 0.9466
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

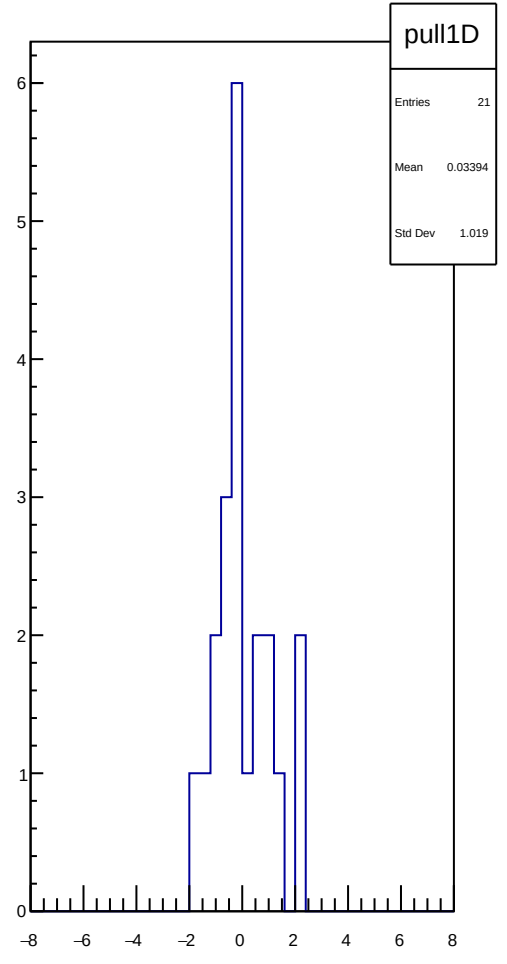

asym_atr_avg_rms vs run
χ^2 / ndf 3944 / 20
p0 8498 ± 13.72
10500
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

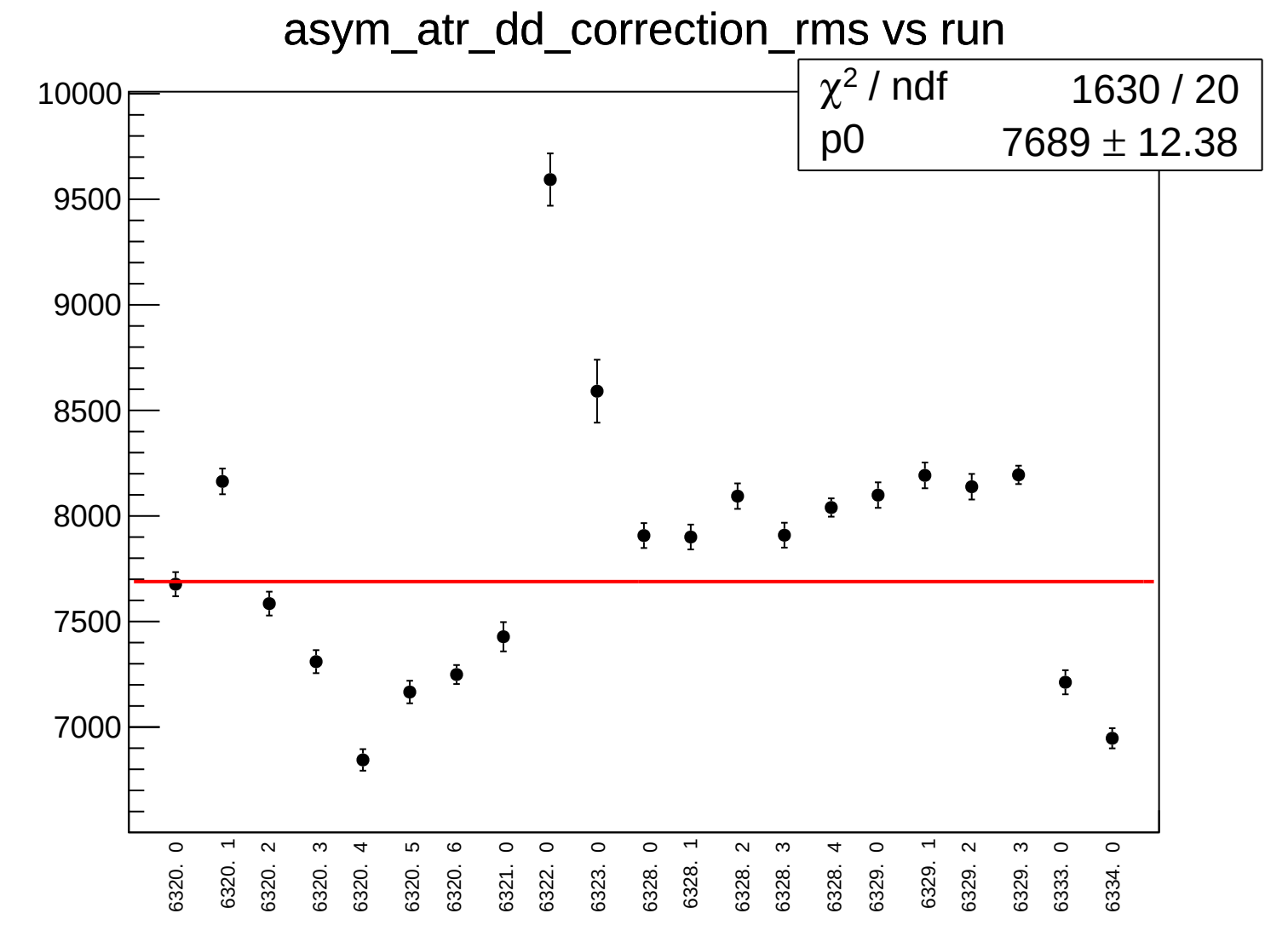

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 15 / 20
p0 1845 ± 5976
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.72
Std Dev 31.15
1.5
1
0.5
0
−0.5
−1
−1.5

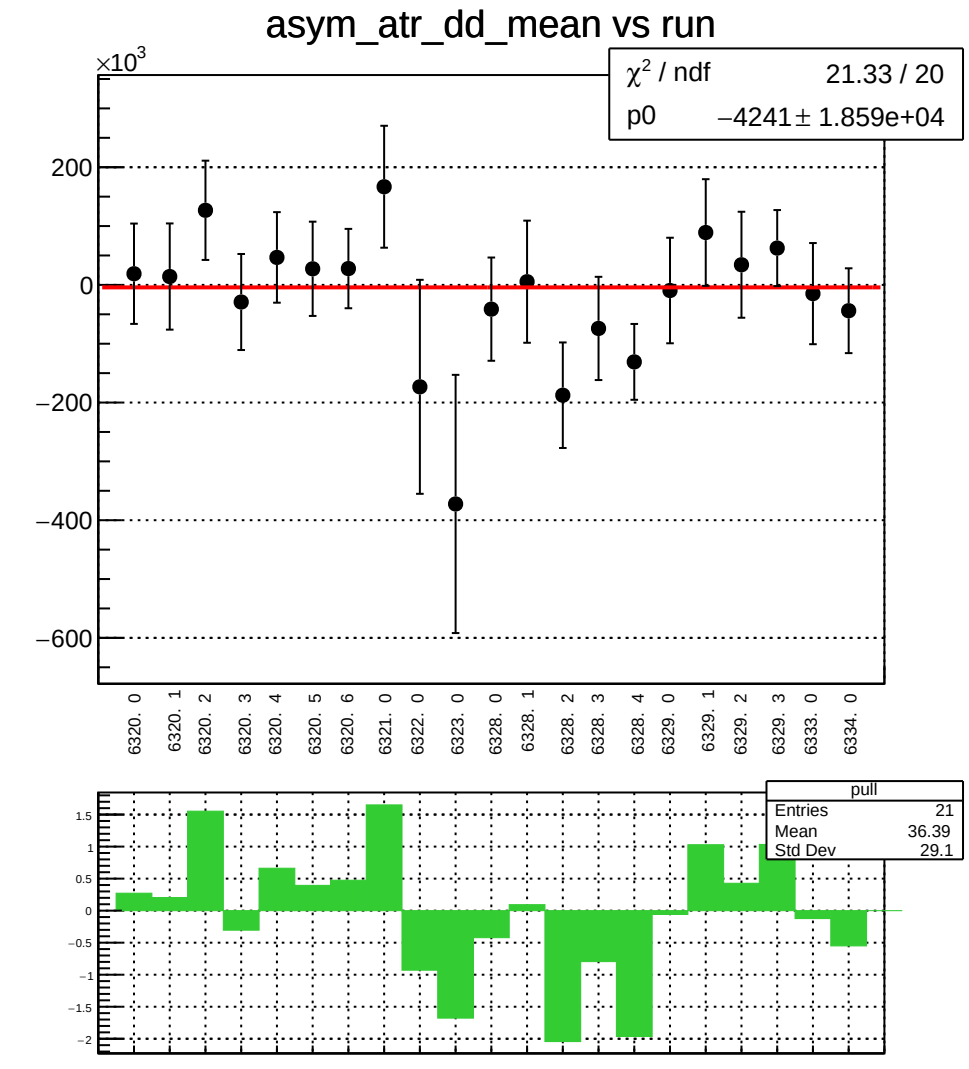

pull1D
Entries 21
Mean −0.06781
Std Dev 0.8425
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

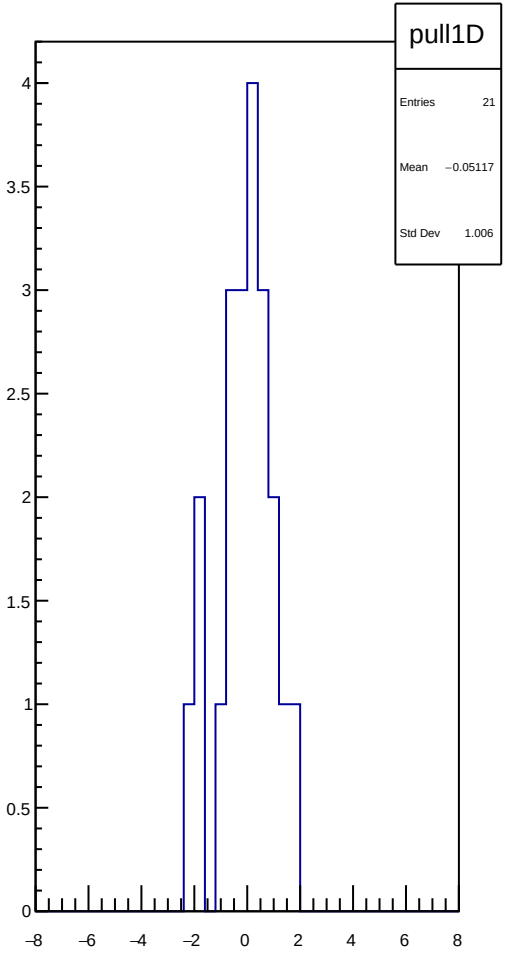

reg_asym_atr_dd_rms vs run
χ² / ndf 5678 / 20
p0 2611 ± 4.226
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

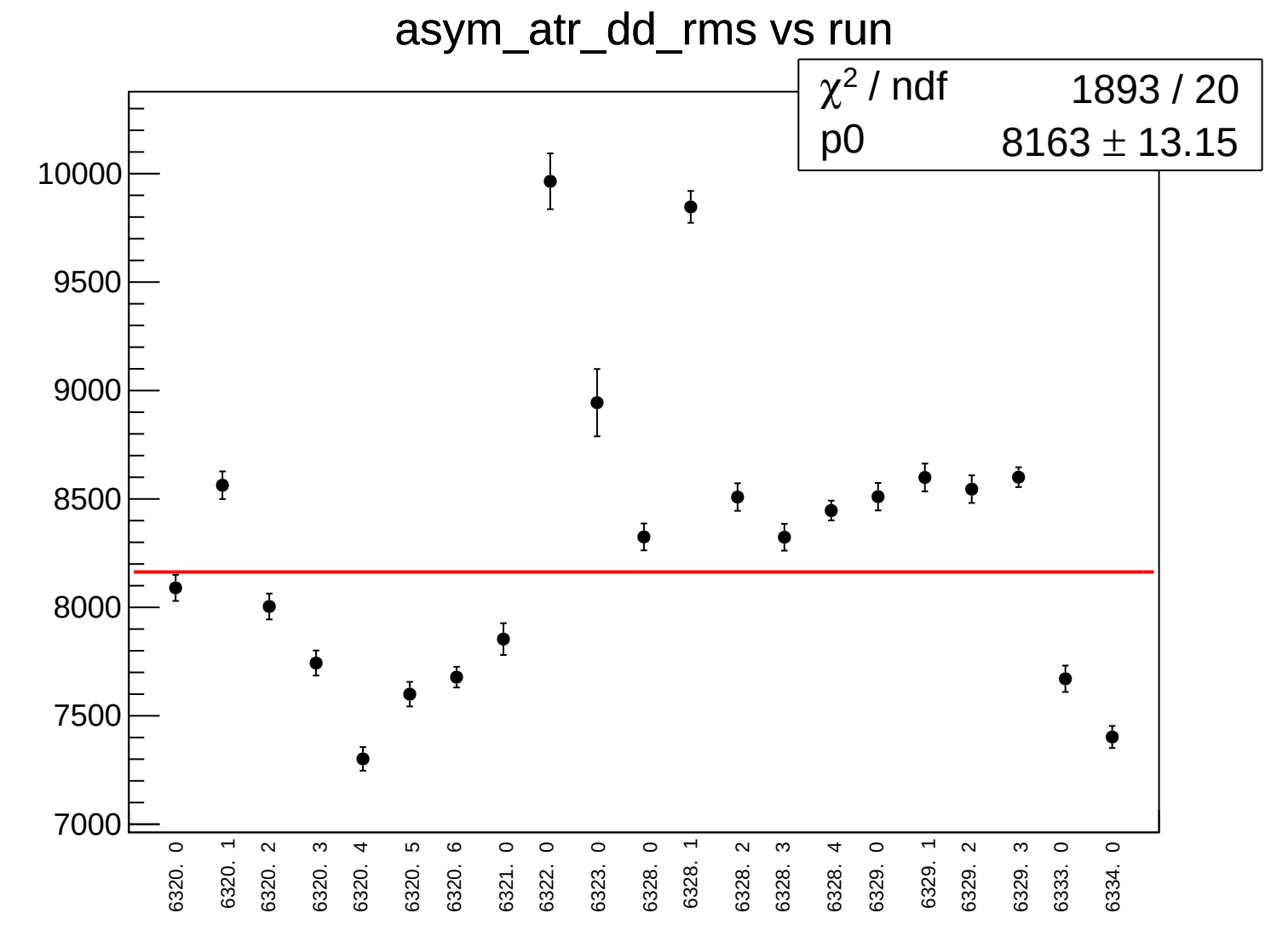

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 21.85 / 20
p0 5559 ± 1.751e+04
500
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.29
Std Dev 26.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

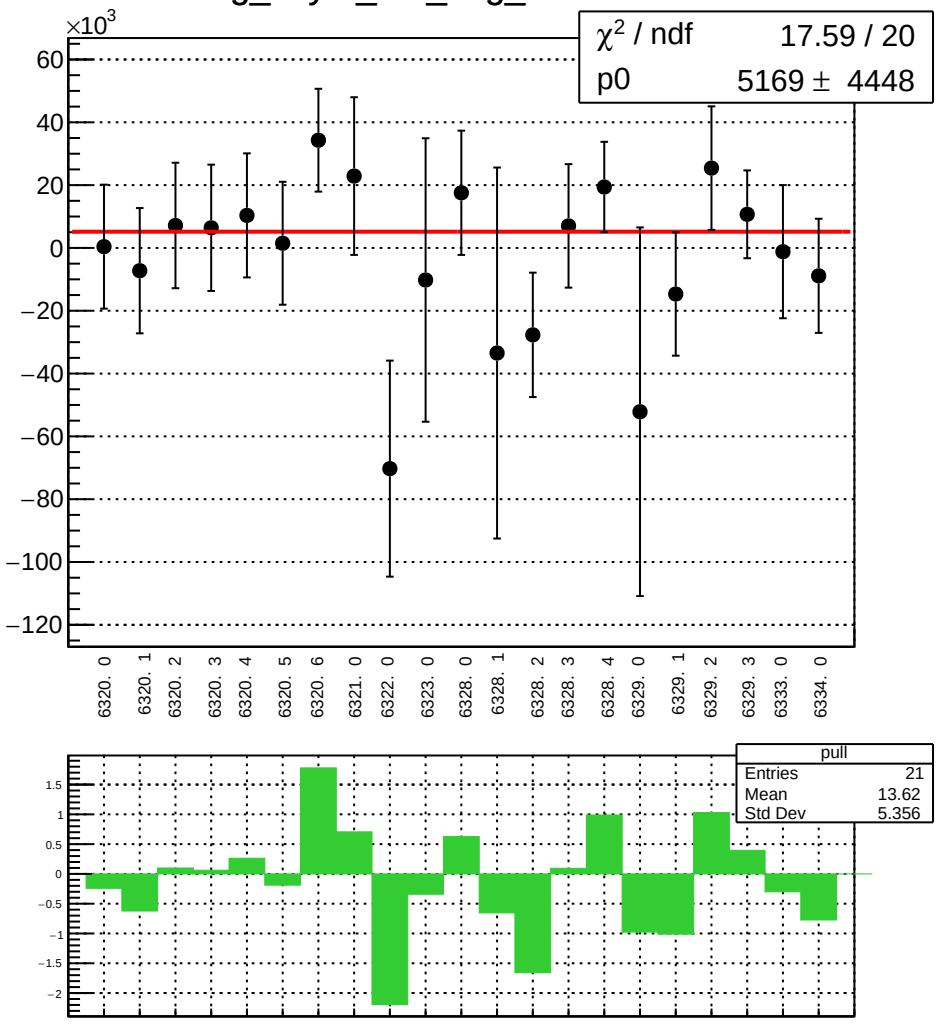

pull1D
Entries 21
Mean 0.03394
Std Dev 1.019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

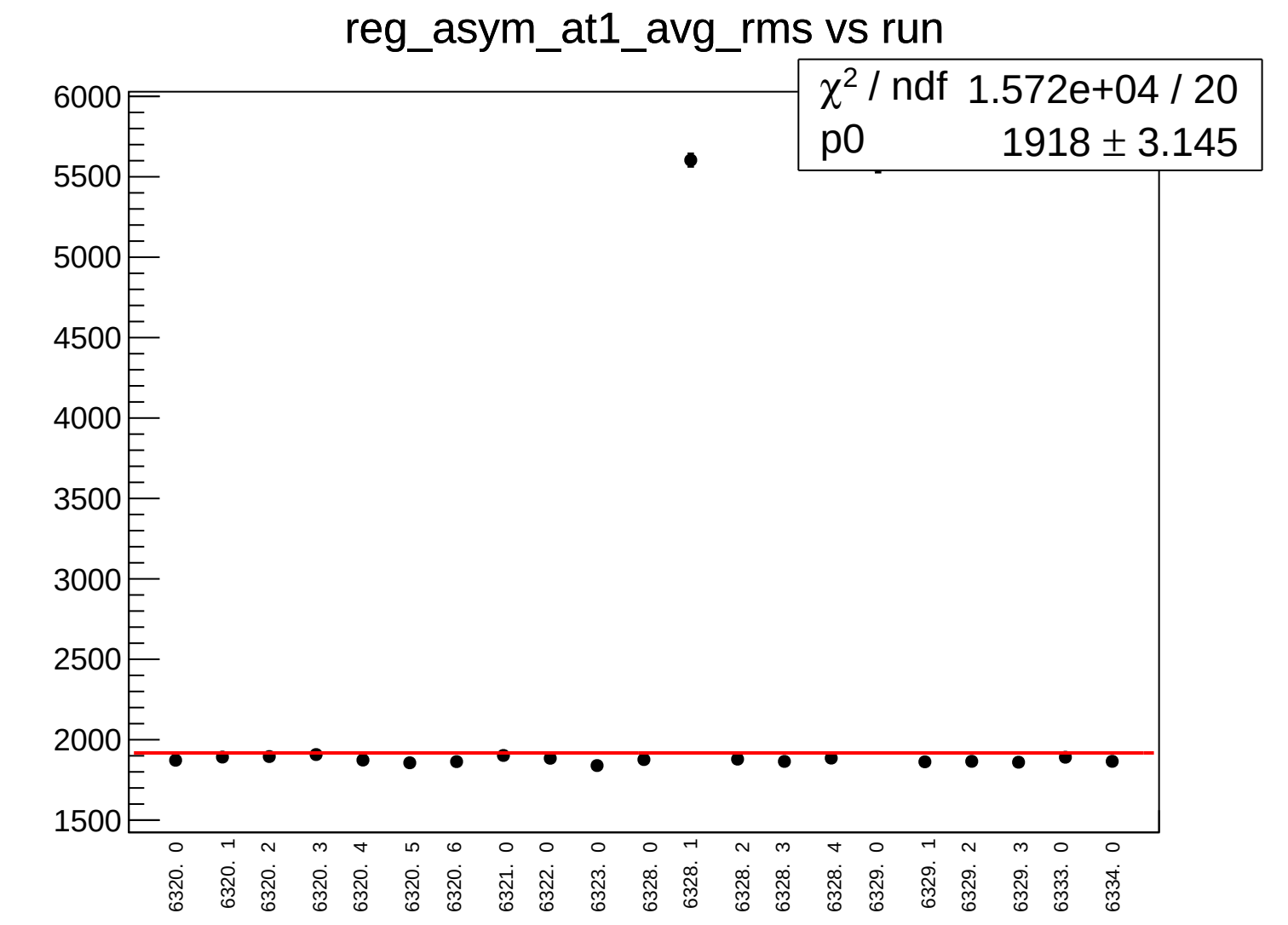

asym_atr_dd_correction_rms vs run
χ² / ndf 1630 / 20
p0 7689 ± 12.38
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

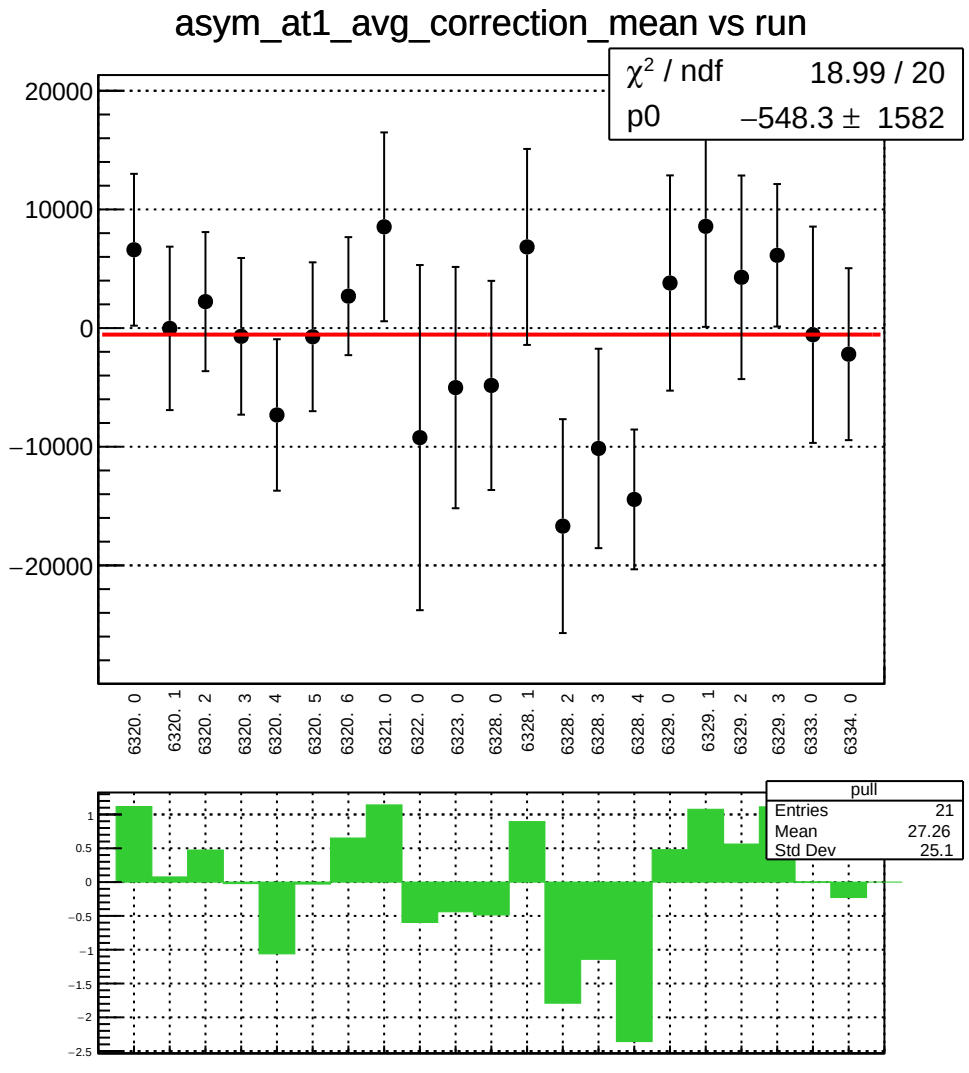

asym_atr_dd_mean vs run
×10^3
χ² / ndf 21.33 / 20
p0 −4241 ± 1.859e+04
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.39
Std Dev 29.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

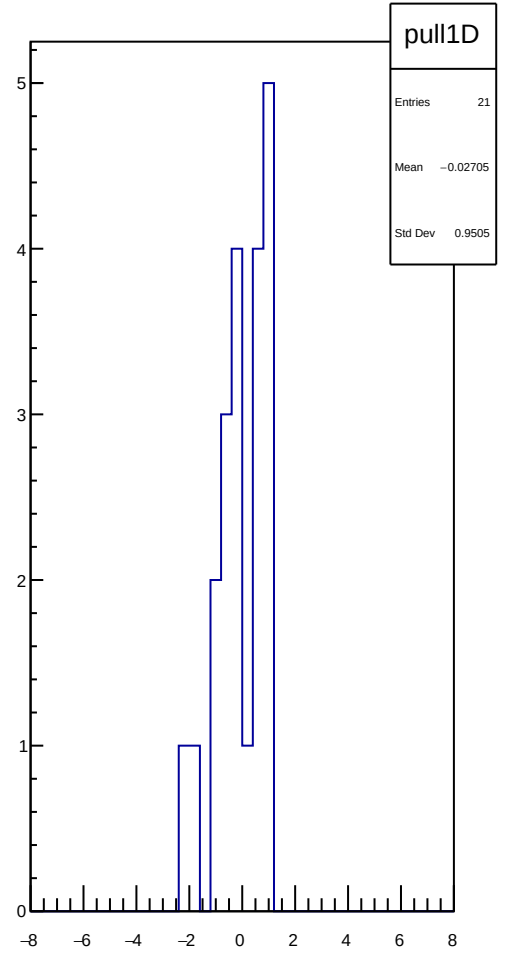

pull1D
Entries 21
Mean −0.05117
Std Dev 1.006
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

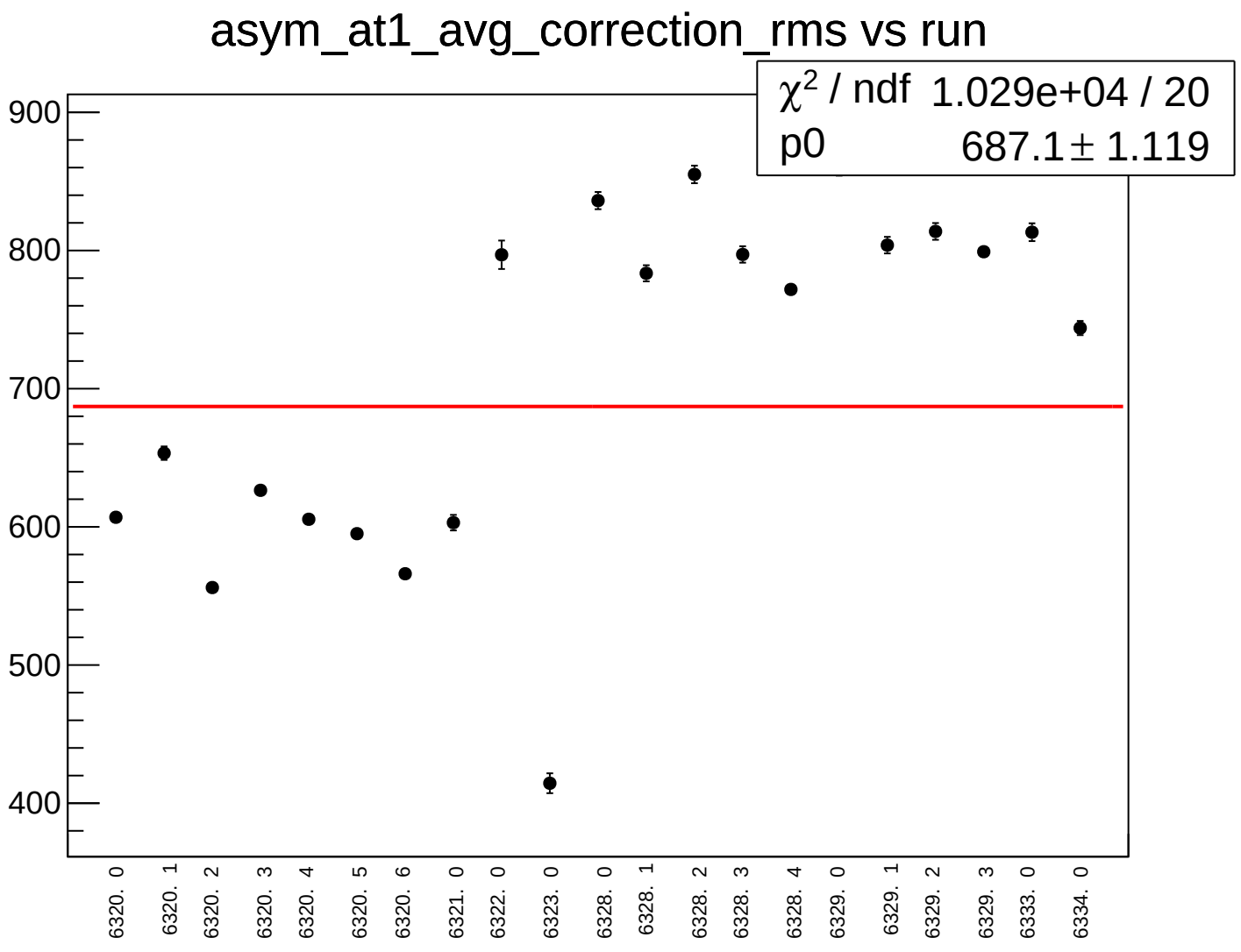

asym_atr_dd_rms vs run
χ² / ndf 1893 / 20
p0 8163 ± 13.15
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

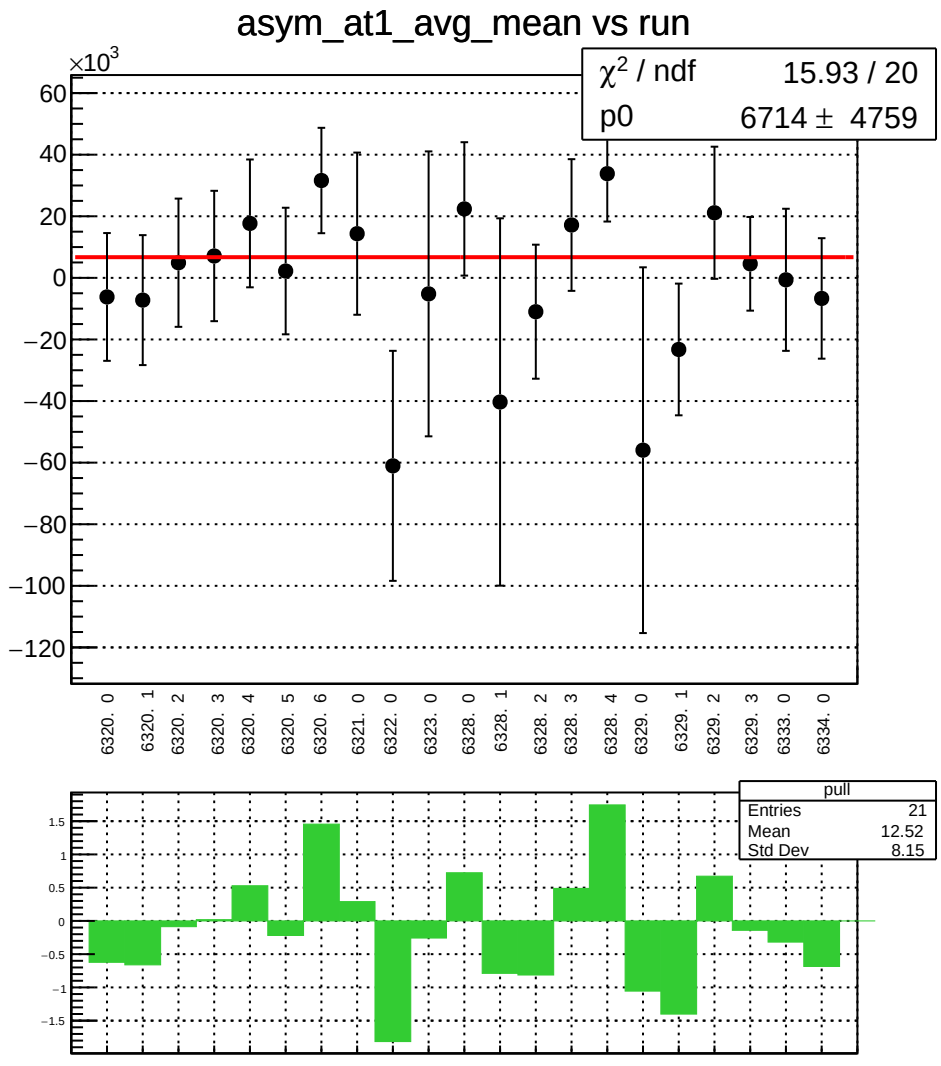

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 17.59 / 20
p0 5169 ± 4448
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.62
Std Dev 5.356
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1388
Std Dev 0.9047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

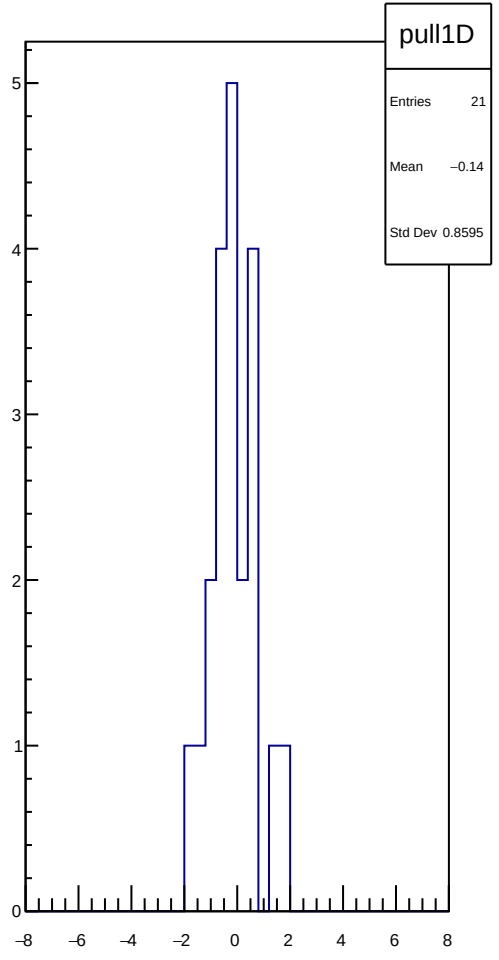

reg_asym_at1_avg_rms vs run
χ² / ndf 1.572e+04 / 20
p0 1918 ± 3.145
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

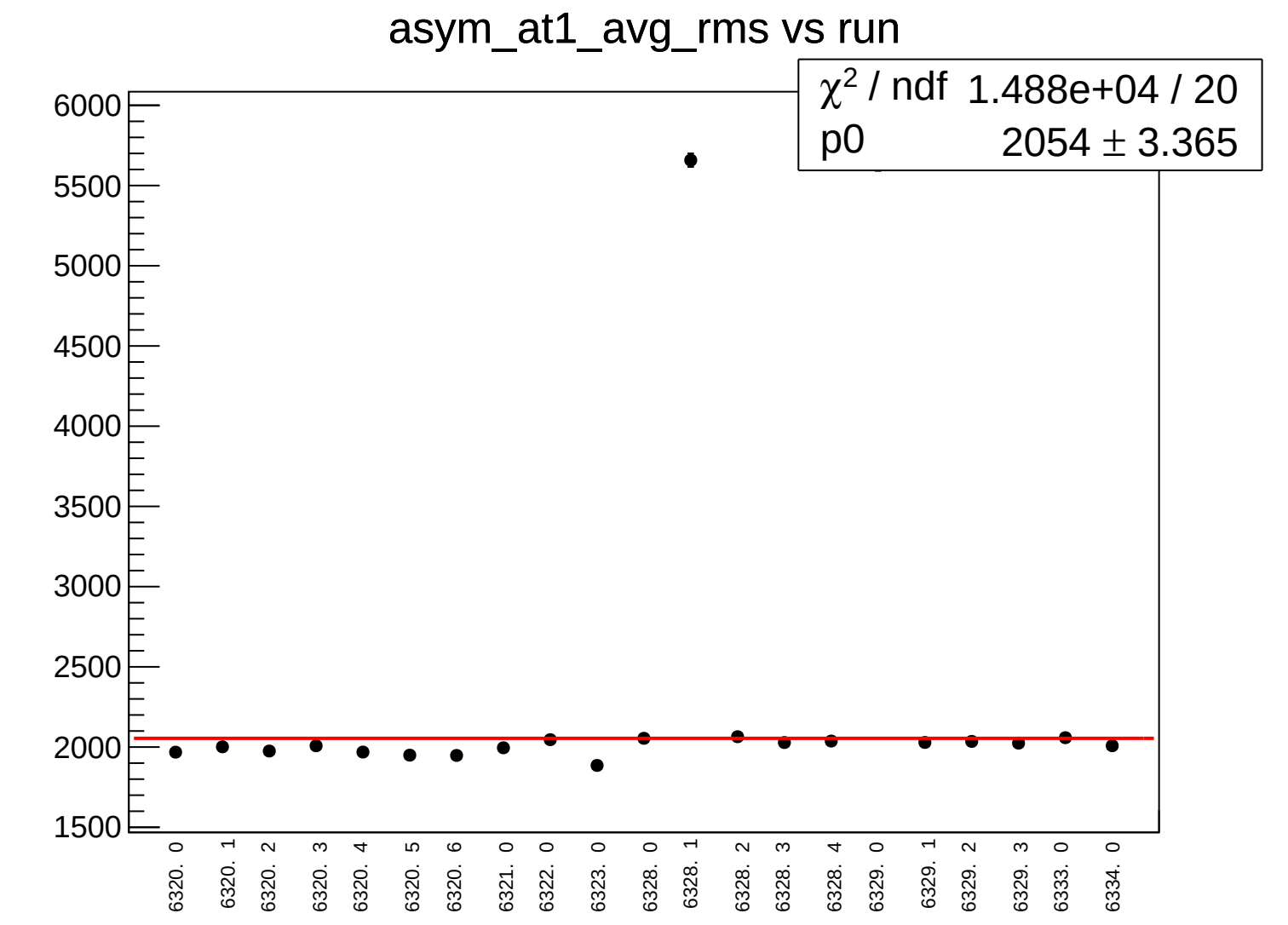

asym_at1_avg_correction_mean vs run
χ² / ndf 18.99 / 20
p0 −548.3 ± 1582
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.26
Std Dev 25.1
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

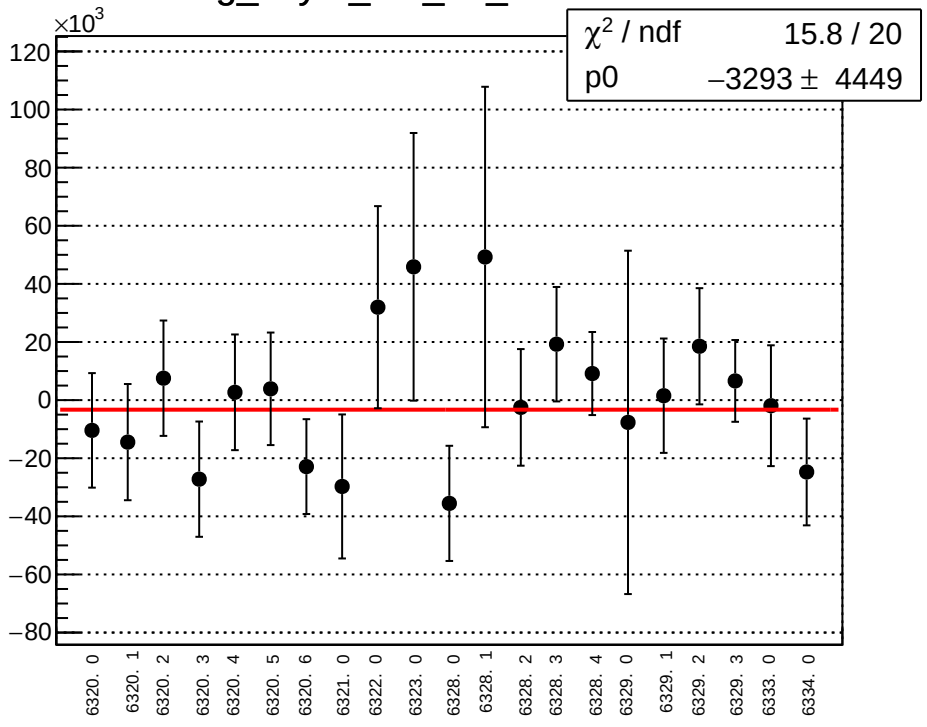

pull1D
Entries 21
Mean −0.02705
Std Dev 0.9505
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

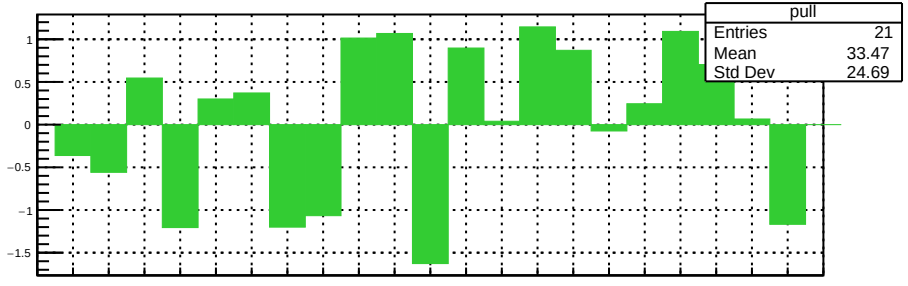

asym_at1_avg_correction_rms vs run
χ² / ndf 1.029e+04 / 20
p0 687.1 ± 1.119
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

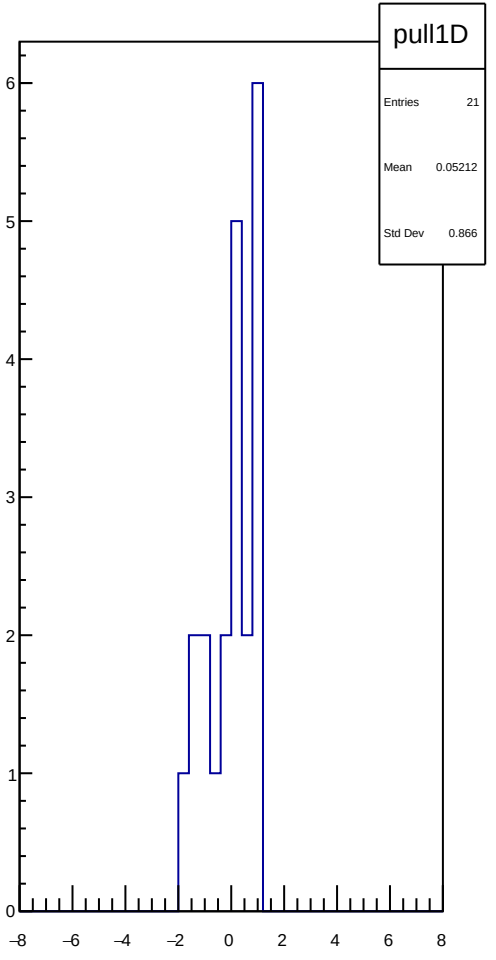

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 15.93 / 20
p0 6714 ± 4759
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 12.52
Std Dev 8.15
1.5
1
0.5
0
−0.5
−1
−1.5

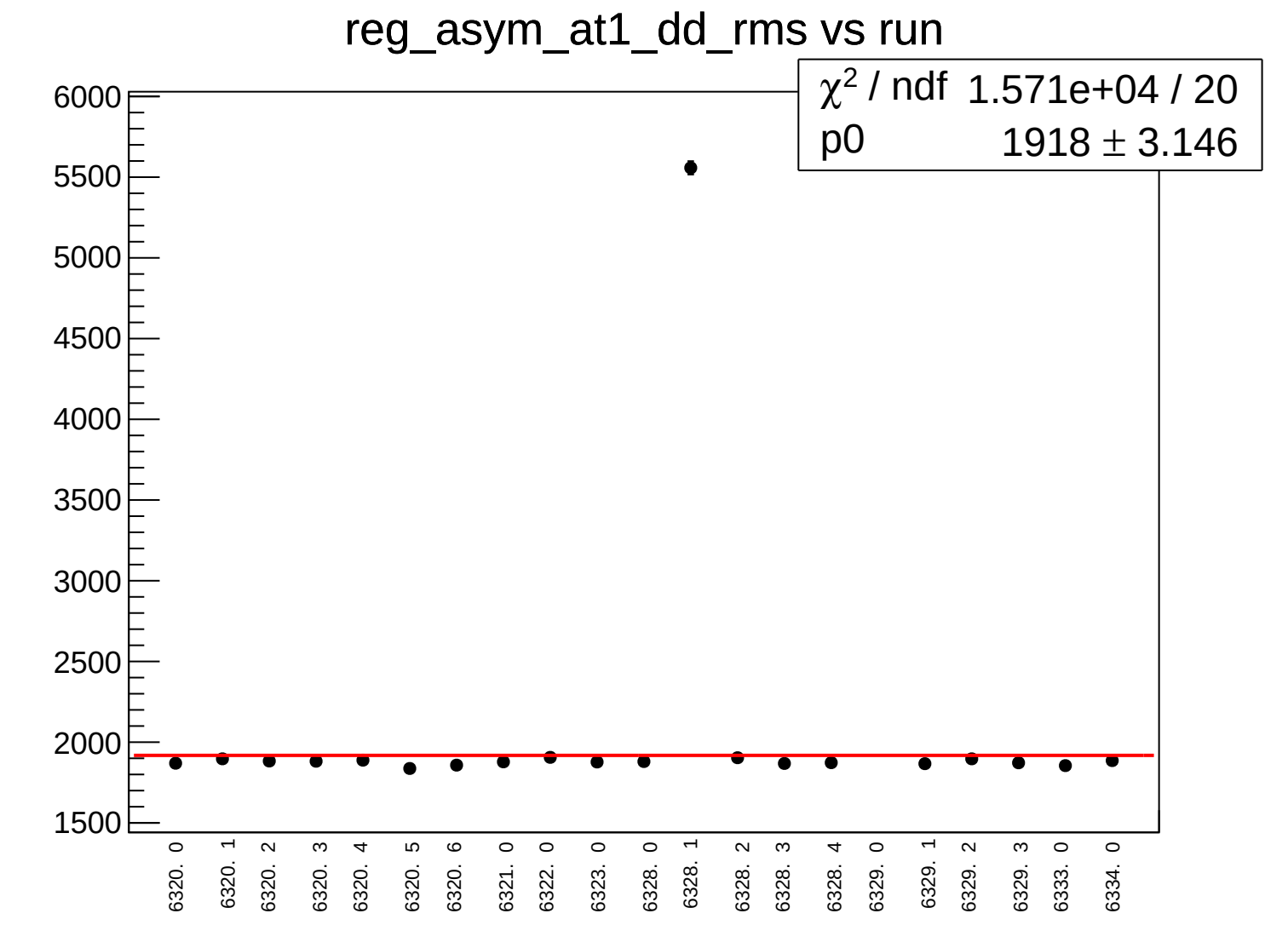

pull1D
Entries 21
Mean −0.14
Std Dev 0.8595
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

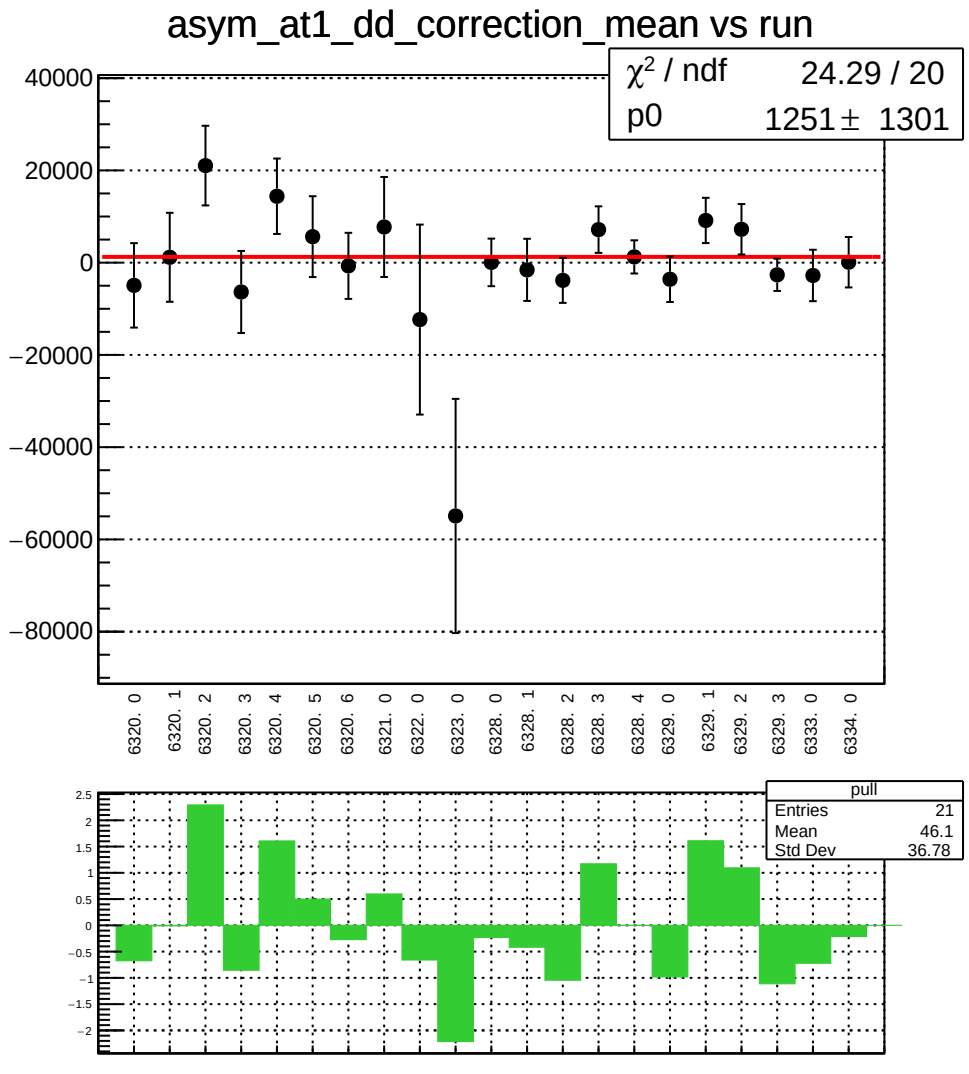

asym_at1_avg_rms vs run
χ² / ndf 1.488e+04 / 20
p0 2054 ± 3.365
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

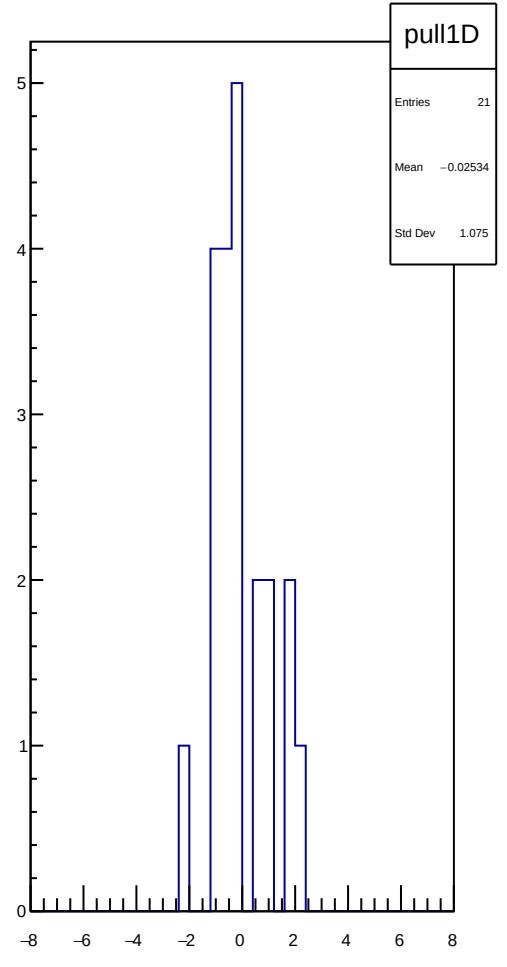

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 15.8 / 20
p0 −3293 ± 4449
120
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

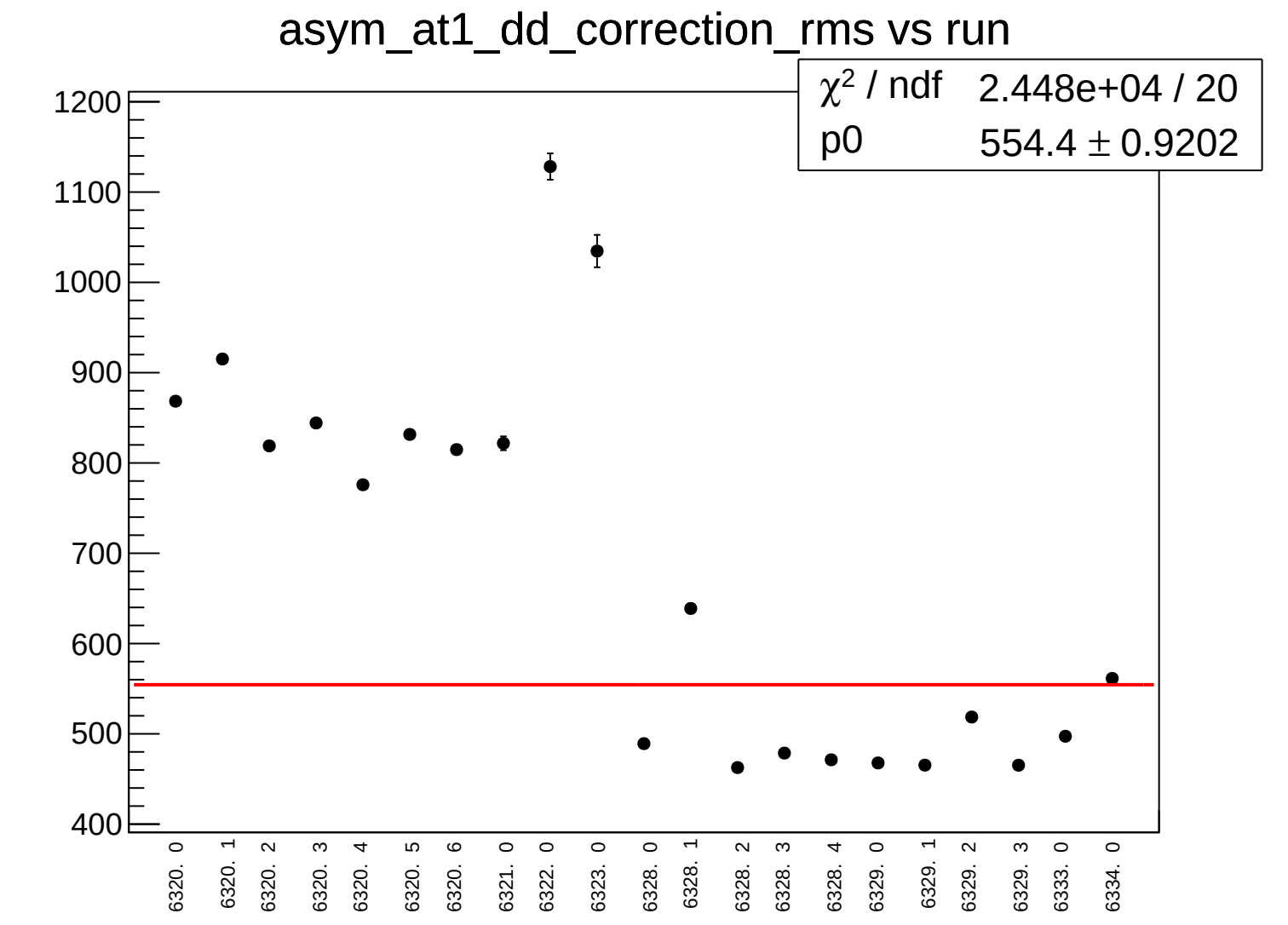

pull
Entries 21
Mean 33.47
Std Dev 24.69
1
0.5
0
−0.5
−1
−1.5

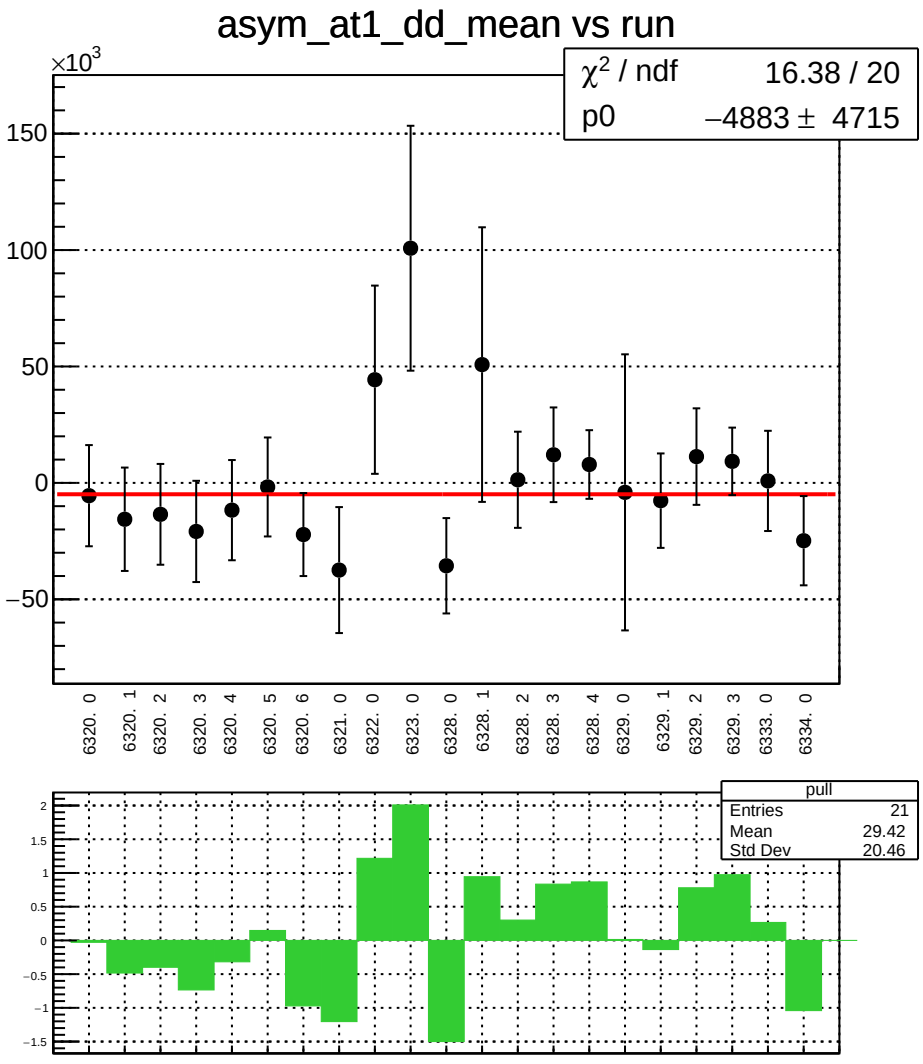

pull1D
Entries 21
Mean 0.05212
Std Dev 0.866
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

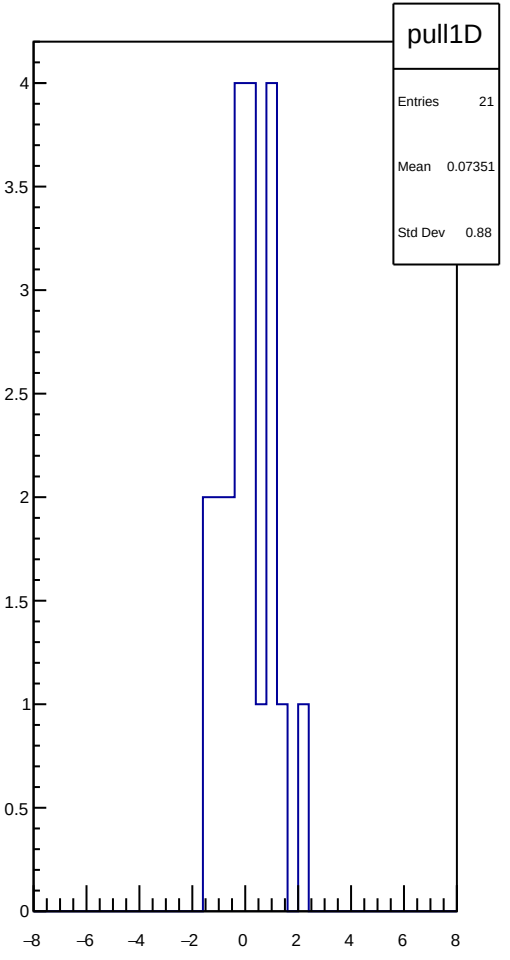

reg_asym_at1_dd_rms vs run
χ² / ndf 1.571e+04 / 20
p0 1918 ± 3.146
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

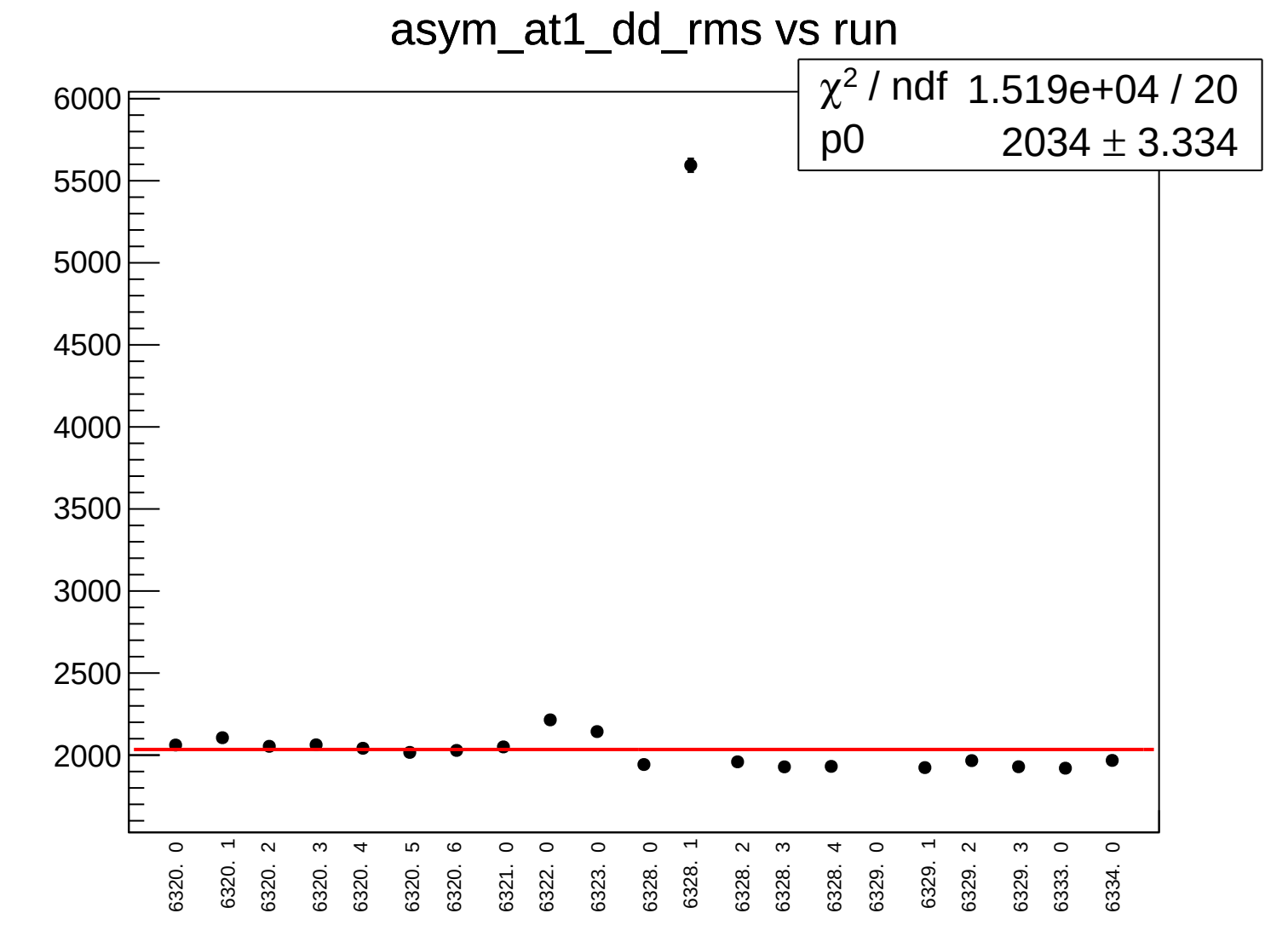

asym_at1_dd_correction_mean vs run
χ² / ndf 24.29 / 20
p0 1251 ± 1301
40000
20000
0
−20000
−40000
−60000
−80000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.1
Std Dev 36.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

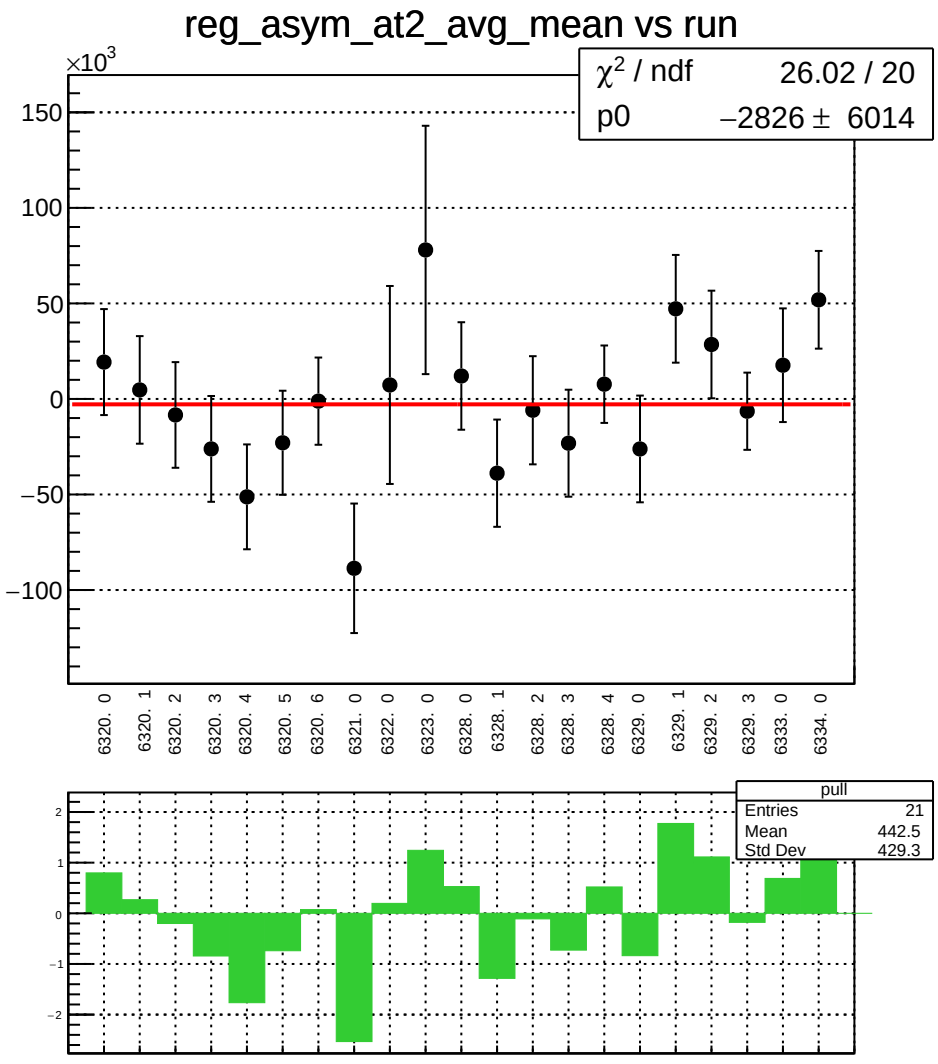

pull1D
Entries 21
Mean −0.02534
Std Dev 1.075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

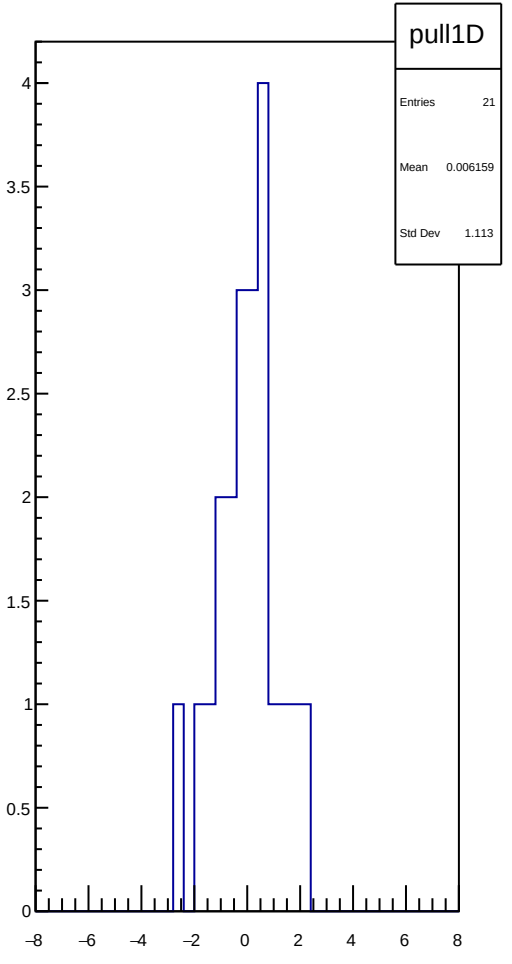

asym_at1_dd_correction_rms vs run
χ² / ndf 2.448e+04 / 20
p0 554.4 ± 0.9202
1200
1100
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

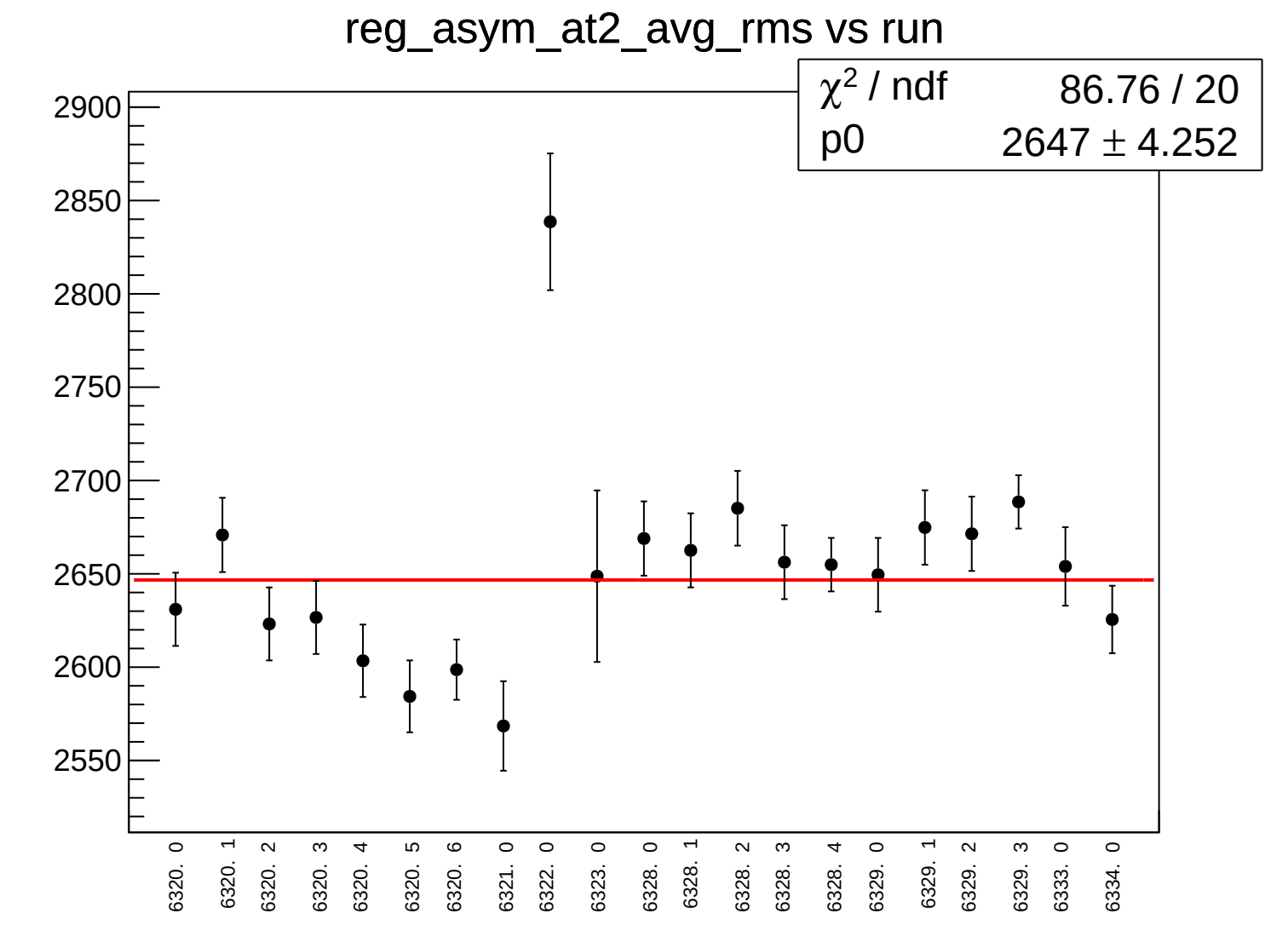

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 16.38 / 20
p0 −4883 ± 4715
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.42
Std Dev 20.46
2
1.5
1
0.5
0
−0.5
−1
−1.5

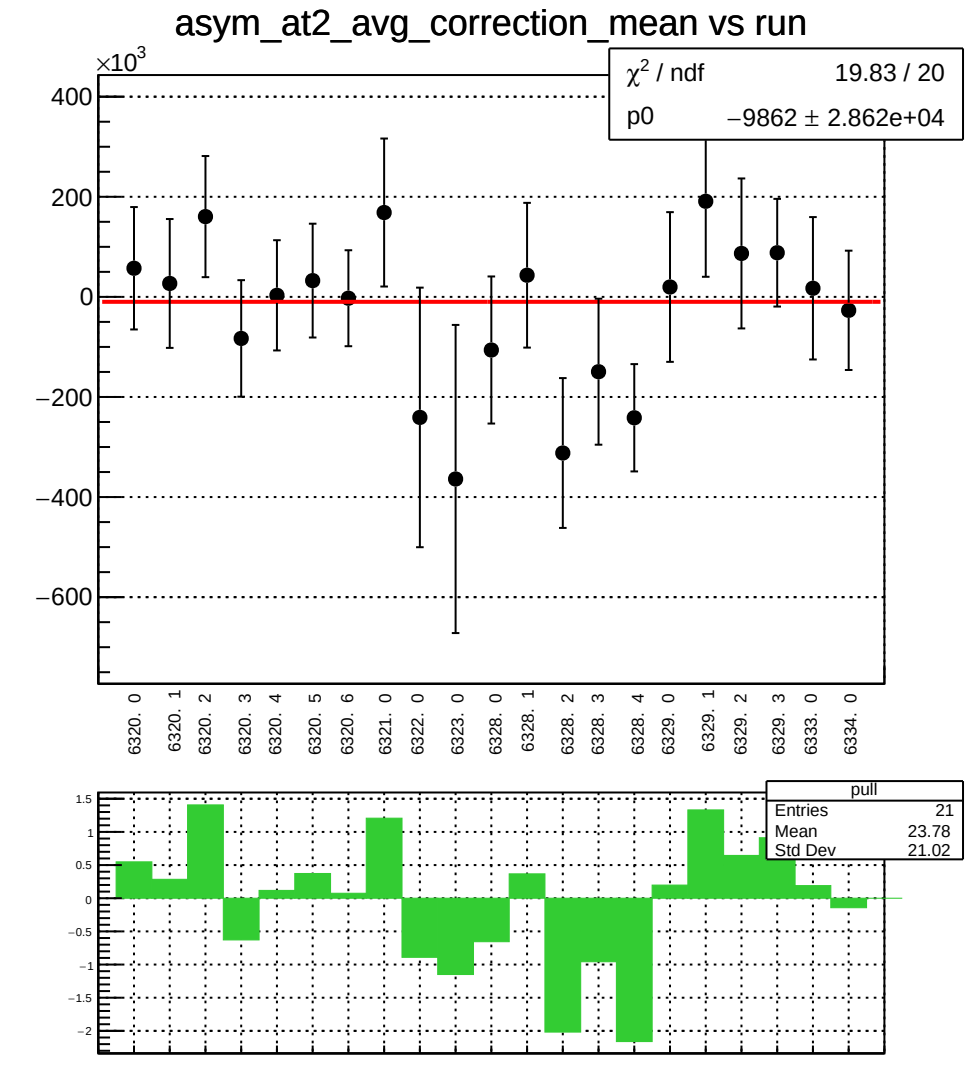

pull1D
Entries 21
Mean 0.07351
Std Dev 0.88
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

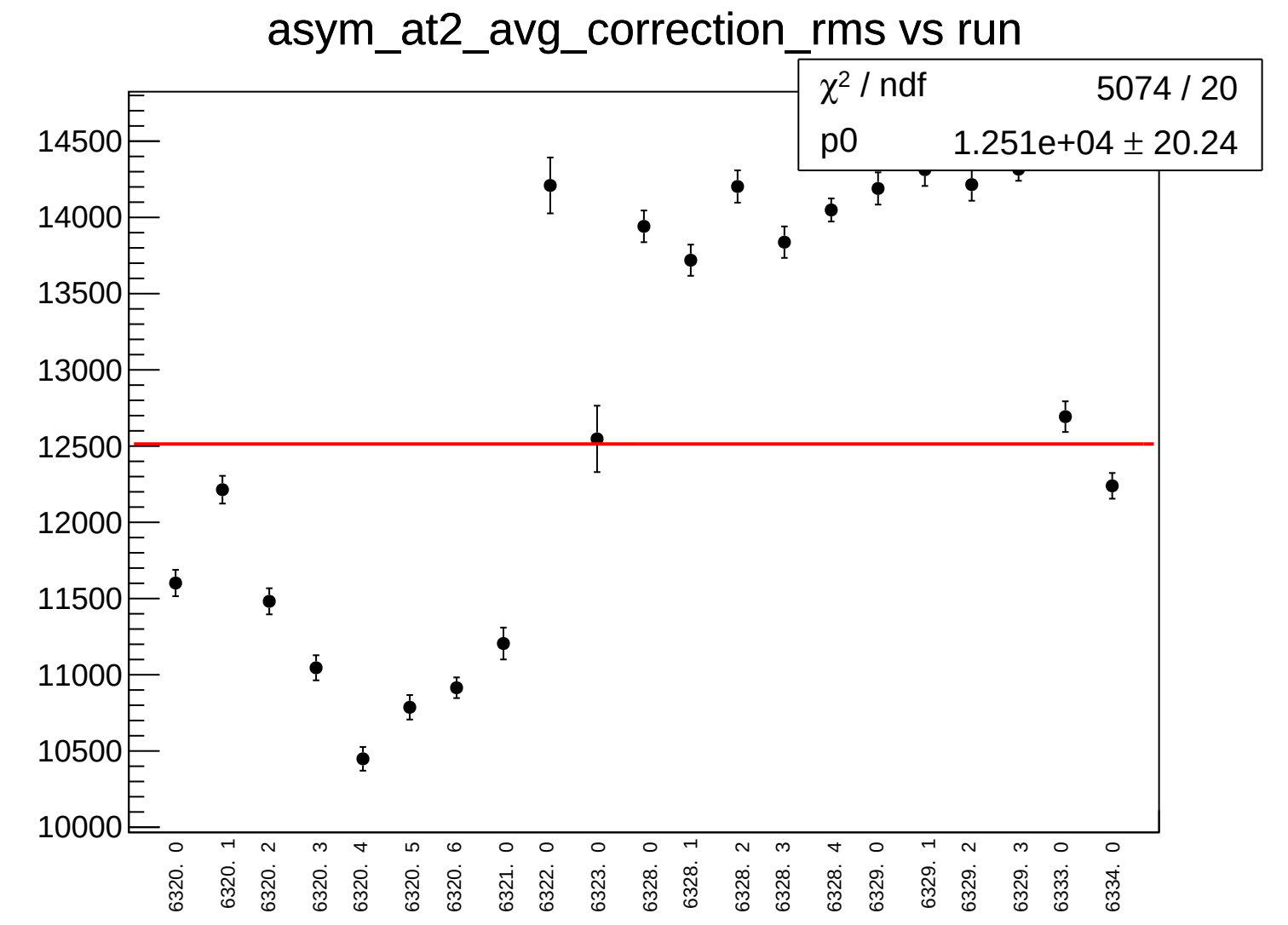

asym_at1_dd_rms vs run
χ² / ndf 1.519e+04 / 20
p0 2034 ± 3.334
6000
5500
5000
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

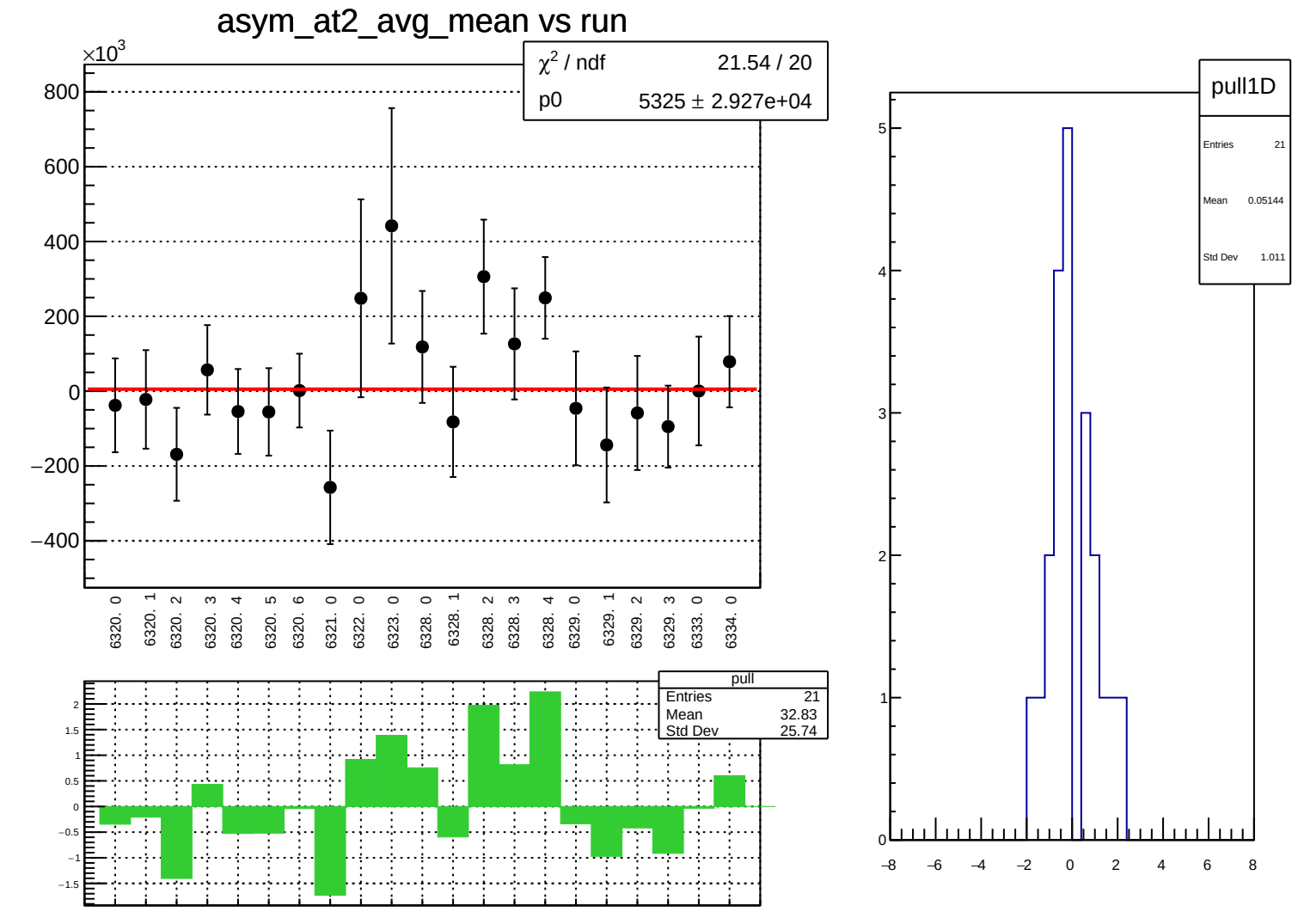

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 26.02 / 20
p0 −2826 ± 6014
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 442.5
Std Dev 429.3
2
1
0
−1
−2

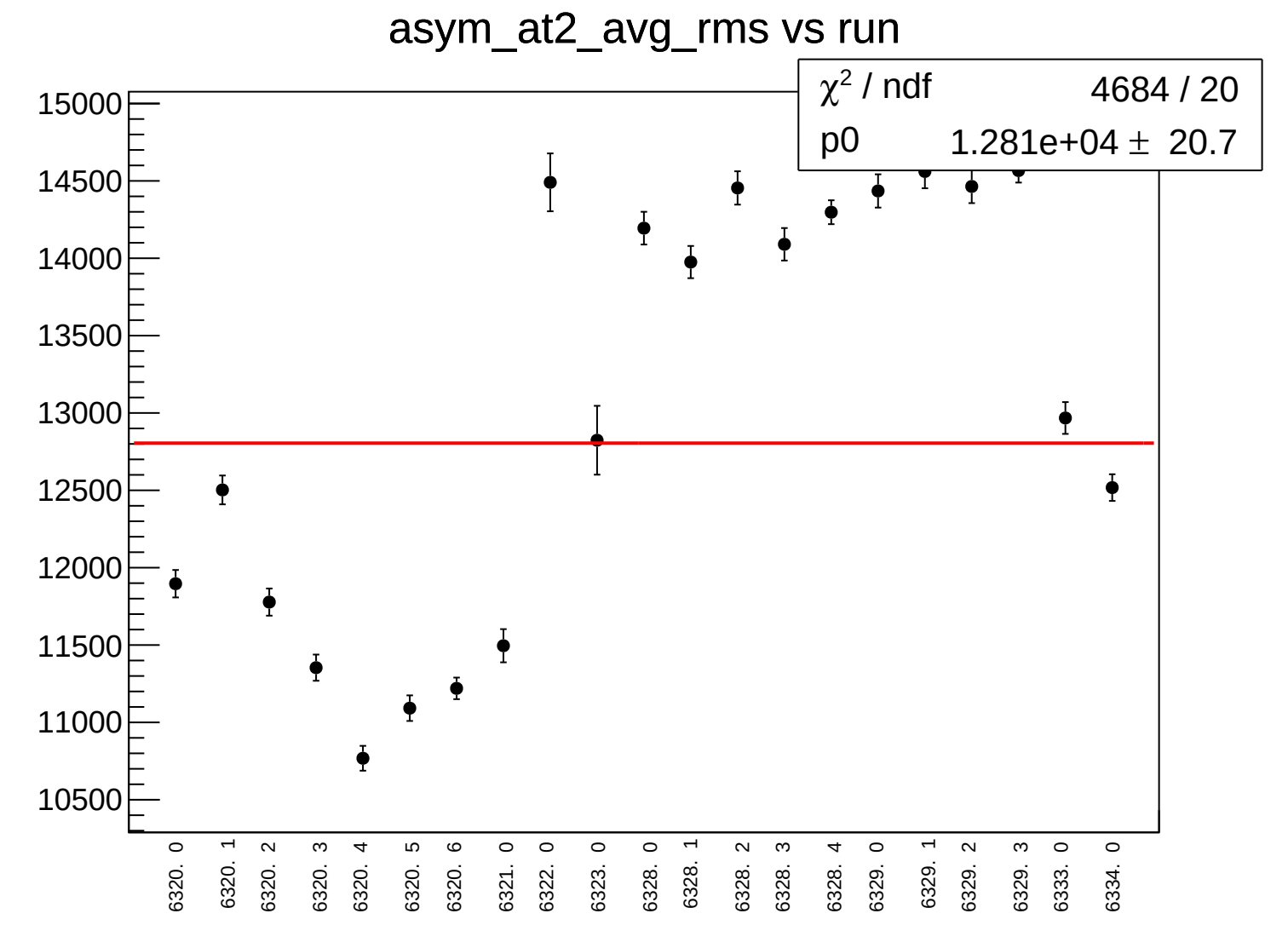

pull1D
Entries 21
Mean 0.006159
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

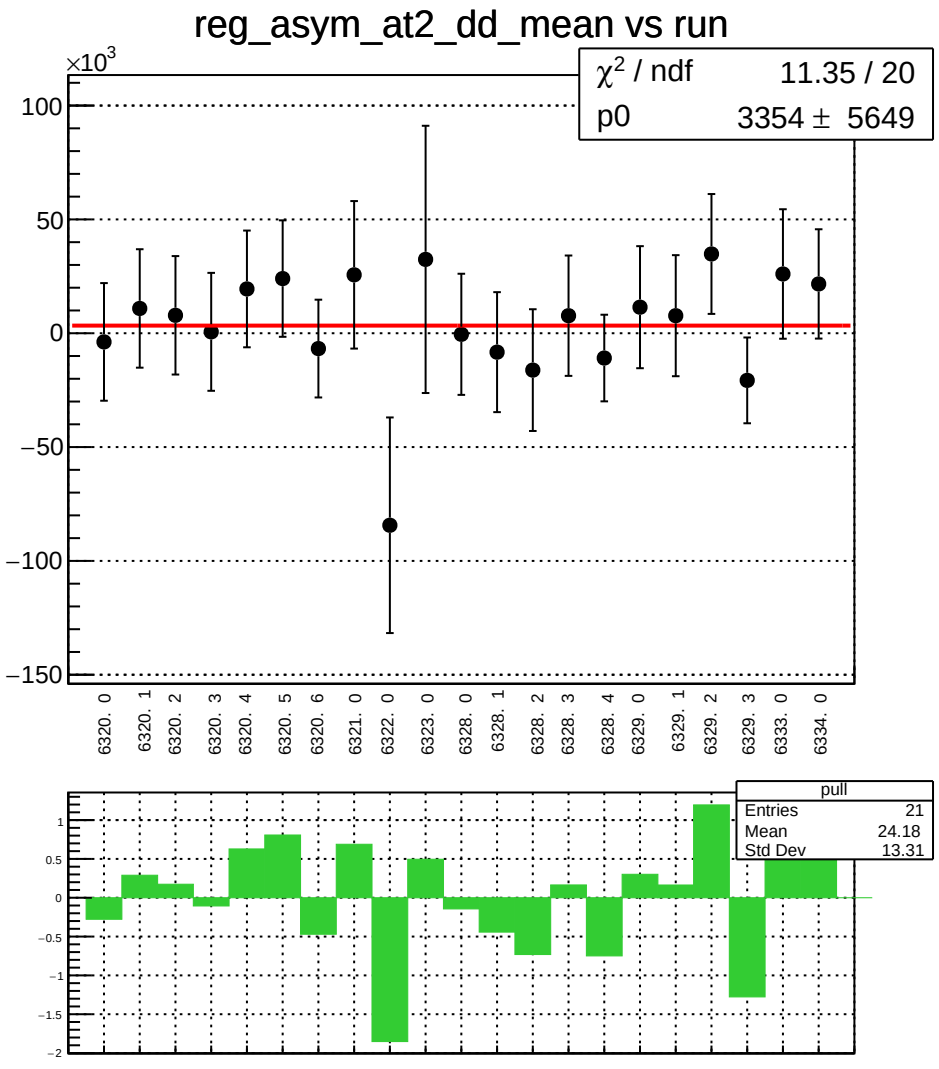

reg_asym_at2_avg_rms vs run
χ² / ndf 86.76 / 20
p0 2647 ± 4.252
2900
2850
2800
2750
2700
2650
2600
2550
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

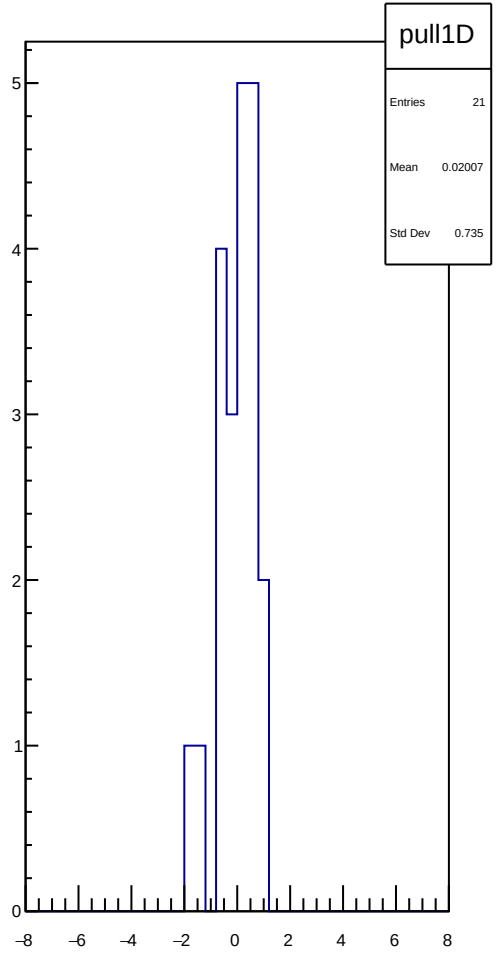

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 19.83 / 20
p0 −9862 ± 2.862e+04
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 23.78
Std Dev 21.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.04508
Std Dev 0.9706
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

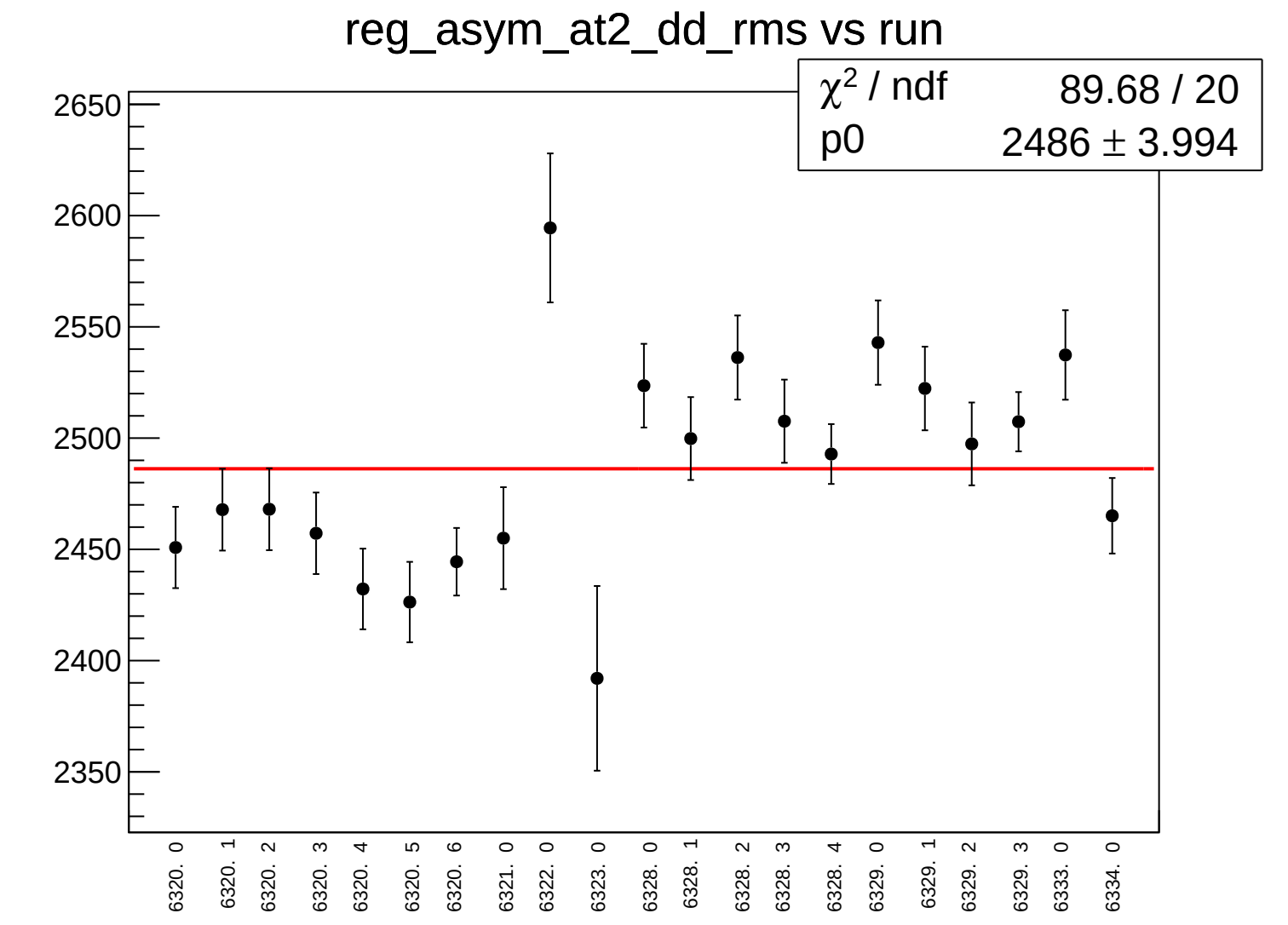

asym_at2_avg_correction_rms vs run
χ² / ndf 5074 / 20
p0 1.251e+04 ± 20.24
14500
14000
13500
13000
12500
12000
11500
11000
10500
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

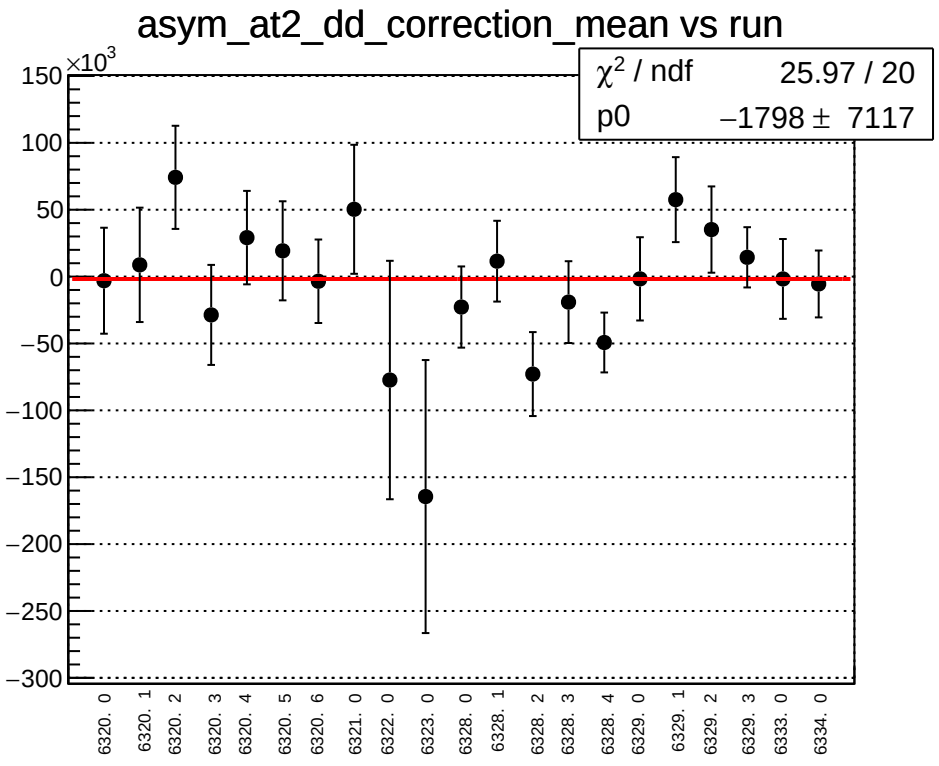

asym_at2_avg_mean vs run
×10^3
χ² / ndf 21.54 / 20
p0 5325 ± 2.927e+04
800
600
400
200
0
−200
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.83
Std Dev 25.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.05144
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

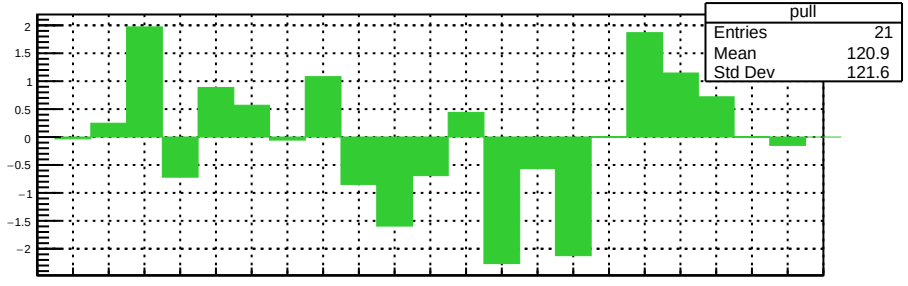

asym_at2_avg_rms vs run
χ² / ndf 4684 / 20
p0 1.281e+04 ± 20.7
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

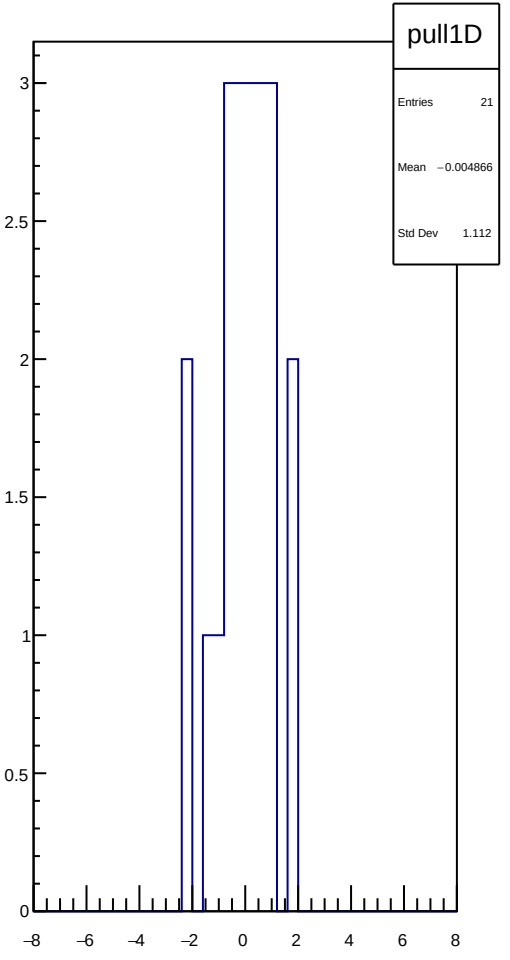

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 11.35 / 20
p0 3354 ± 5649
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.18
Std Dev 13.31
1
0.5
0
−0.5
−1
−1.5
−2

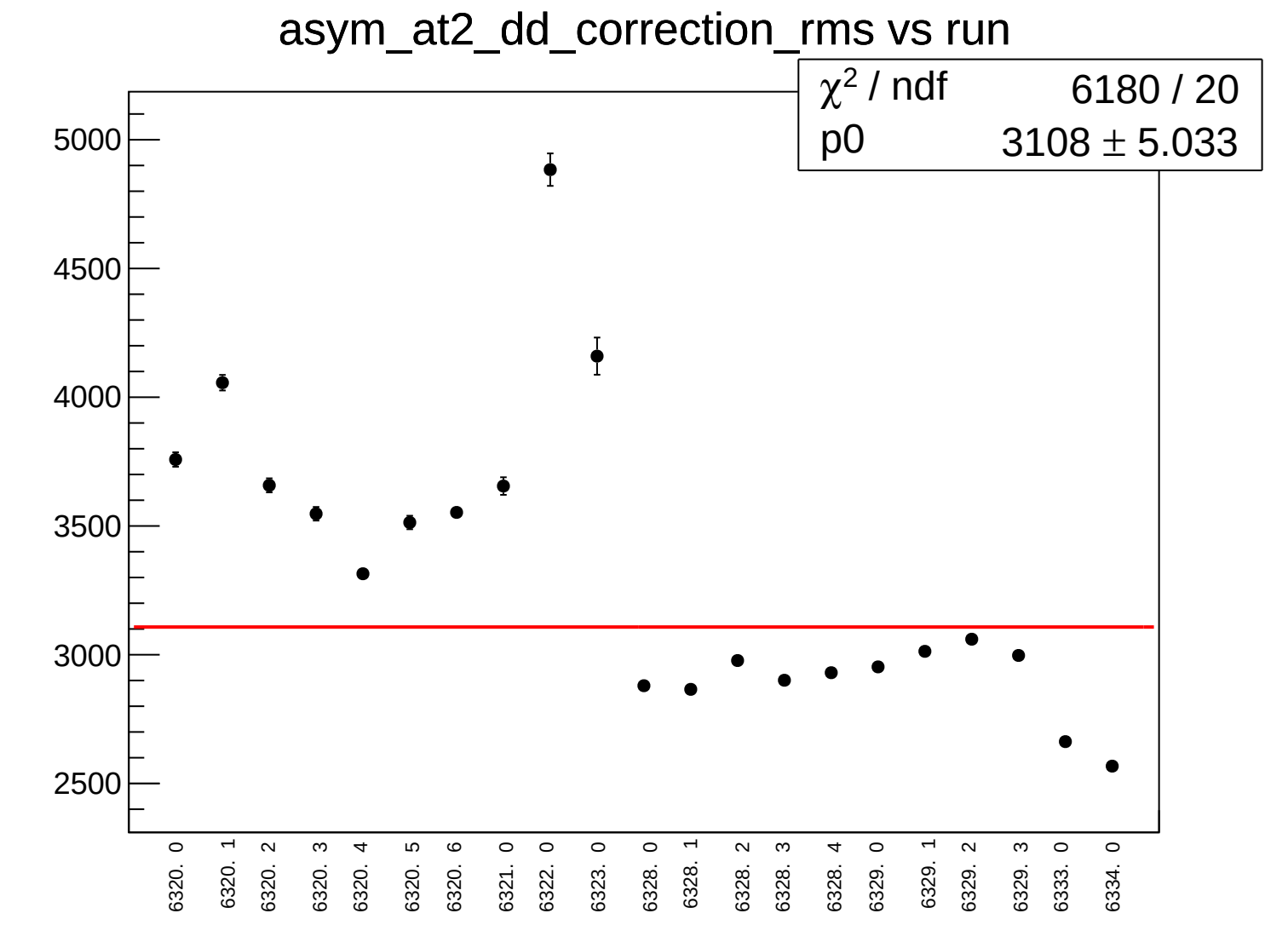

pull1D
Entries 21
Mean 0.02007
Std Dev 0.735
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

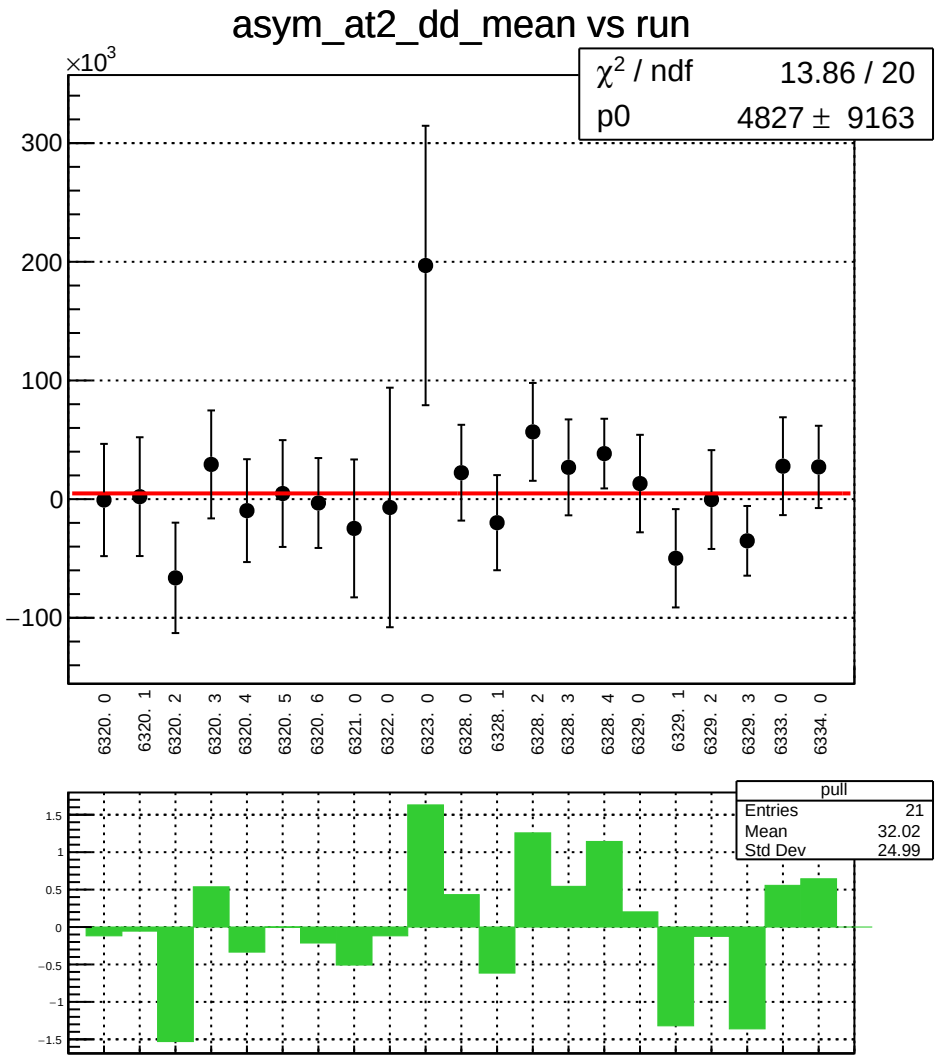

reg_asym_at2_dd_rms vs run
χ² / ndf 89.68 / 20
p0 2486 ± 3.994
2650
2600
2550
2500
2450
2400
2350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

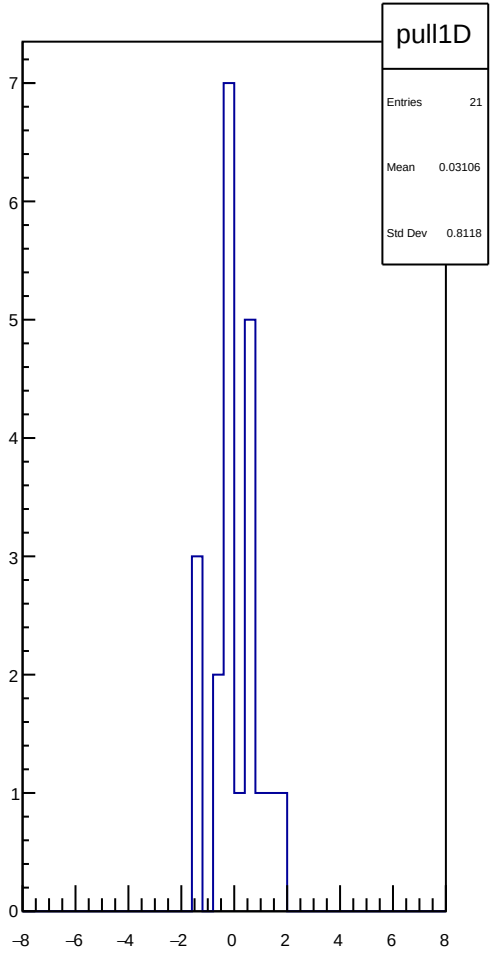

asym_at2_dd_correction_mean vs run
χ² / ndf 25.97 / 20
p0 −1798 ± 7117
×10³
150
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

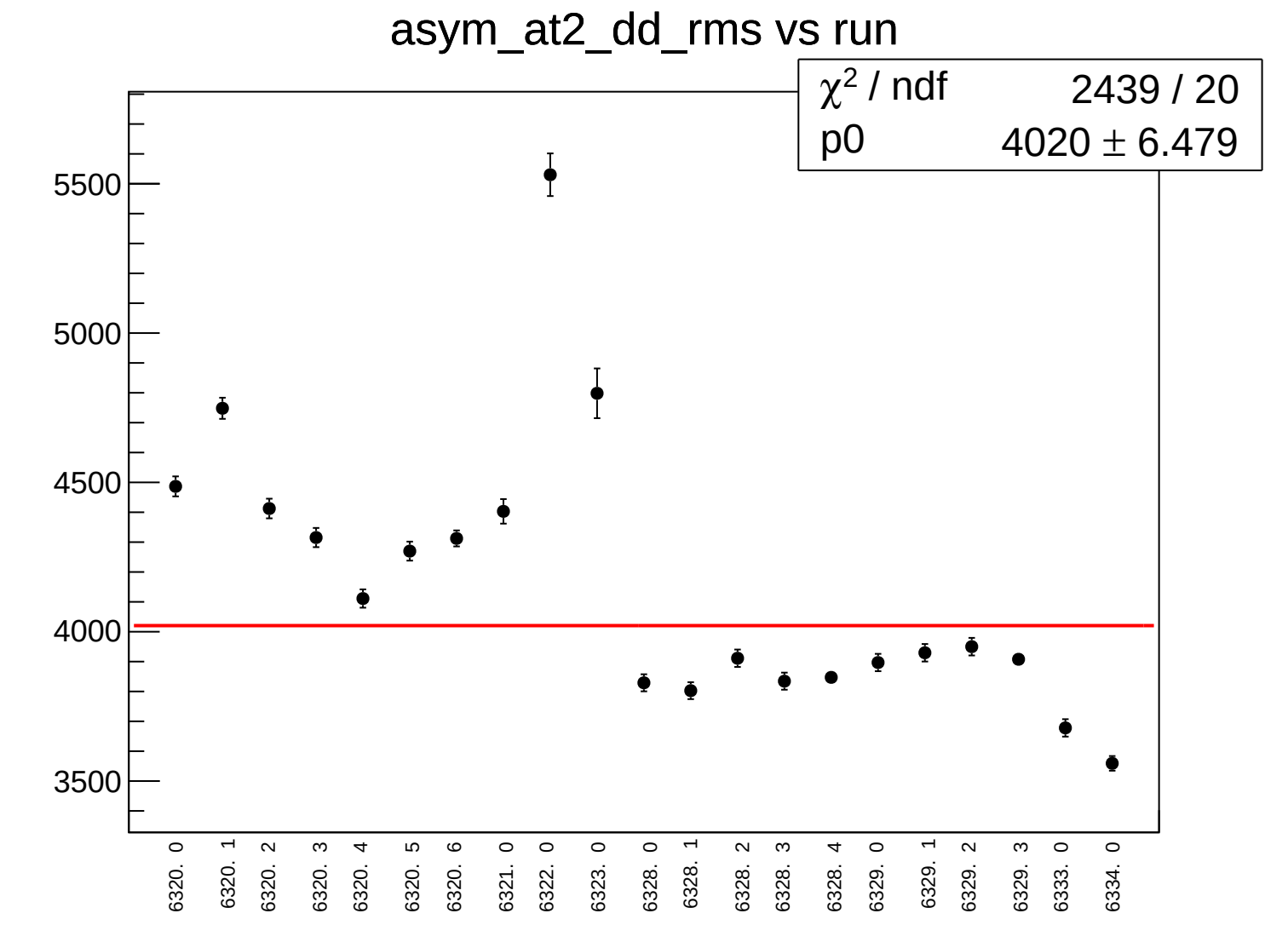

pull
Entries 21
Mean 120.9
Std Dev 121.6

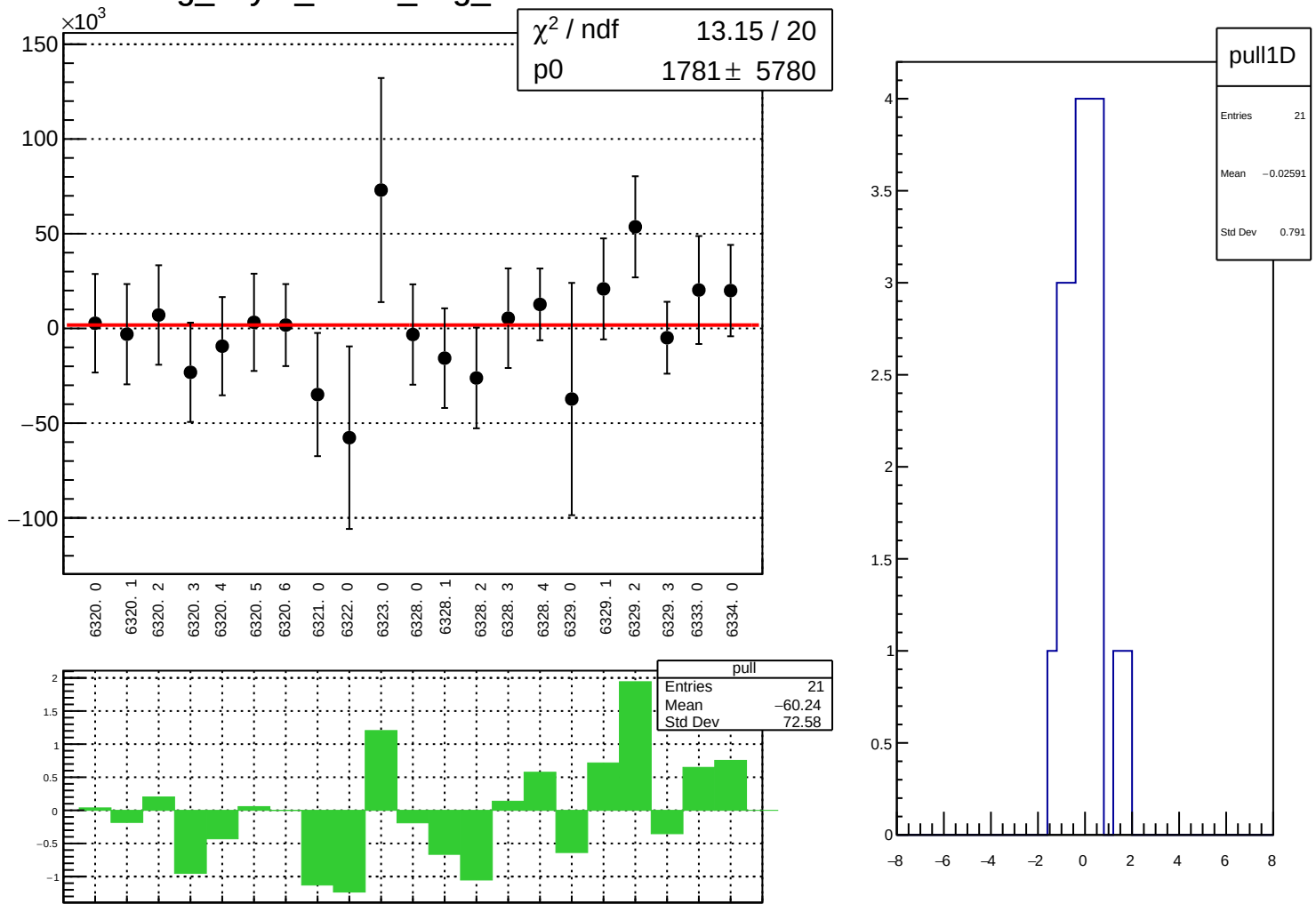

pull1D
Entries 21
Mean −0.004866
Std Dev 1.112

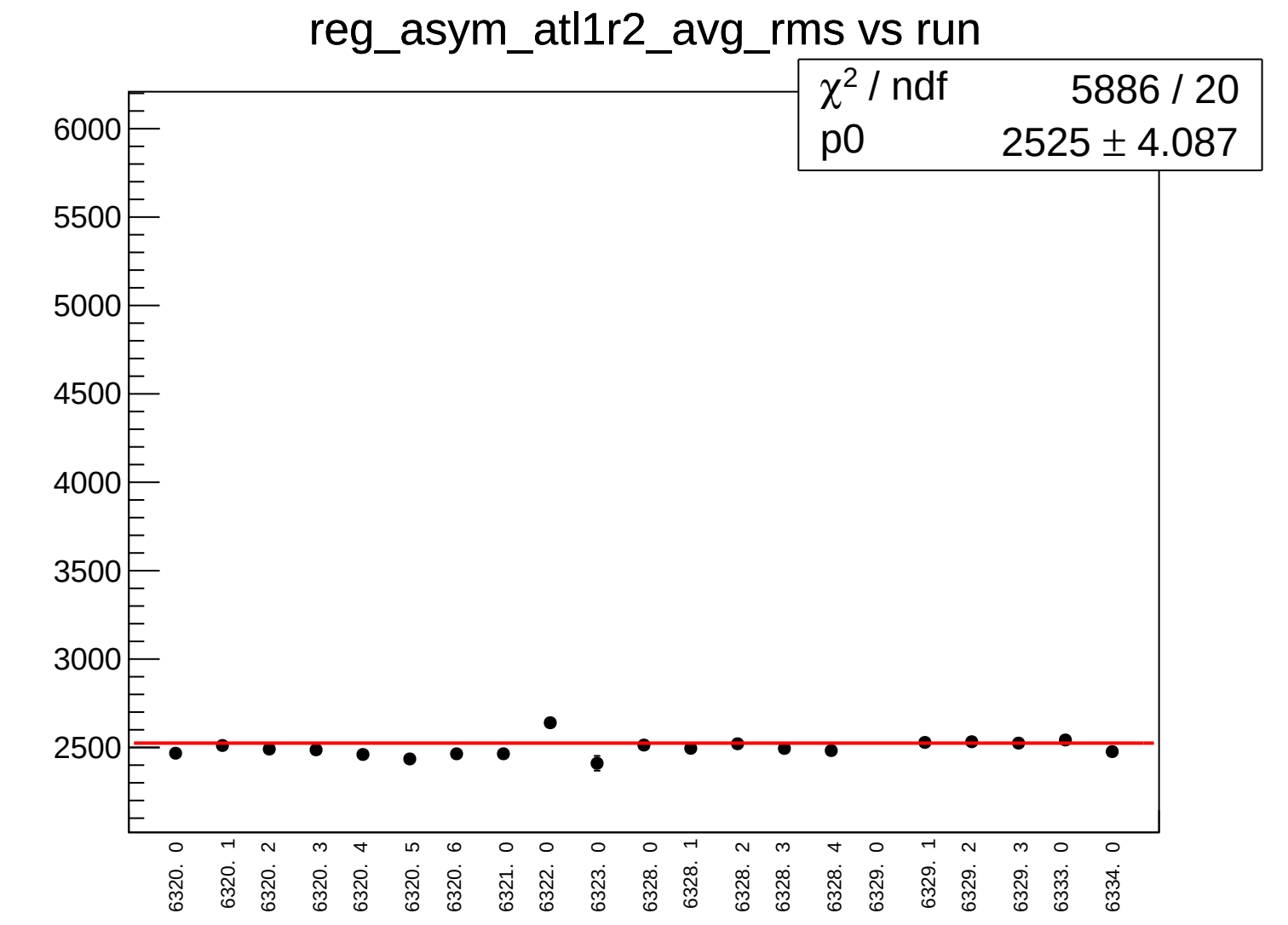

asym_at2_dd_correction_rms vs run
χ² / ndf 6180 / 20
p0 3108 ± 5.033
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

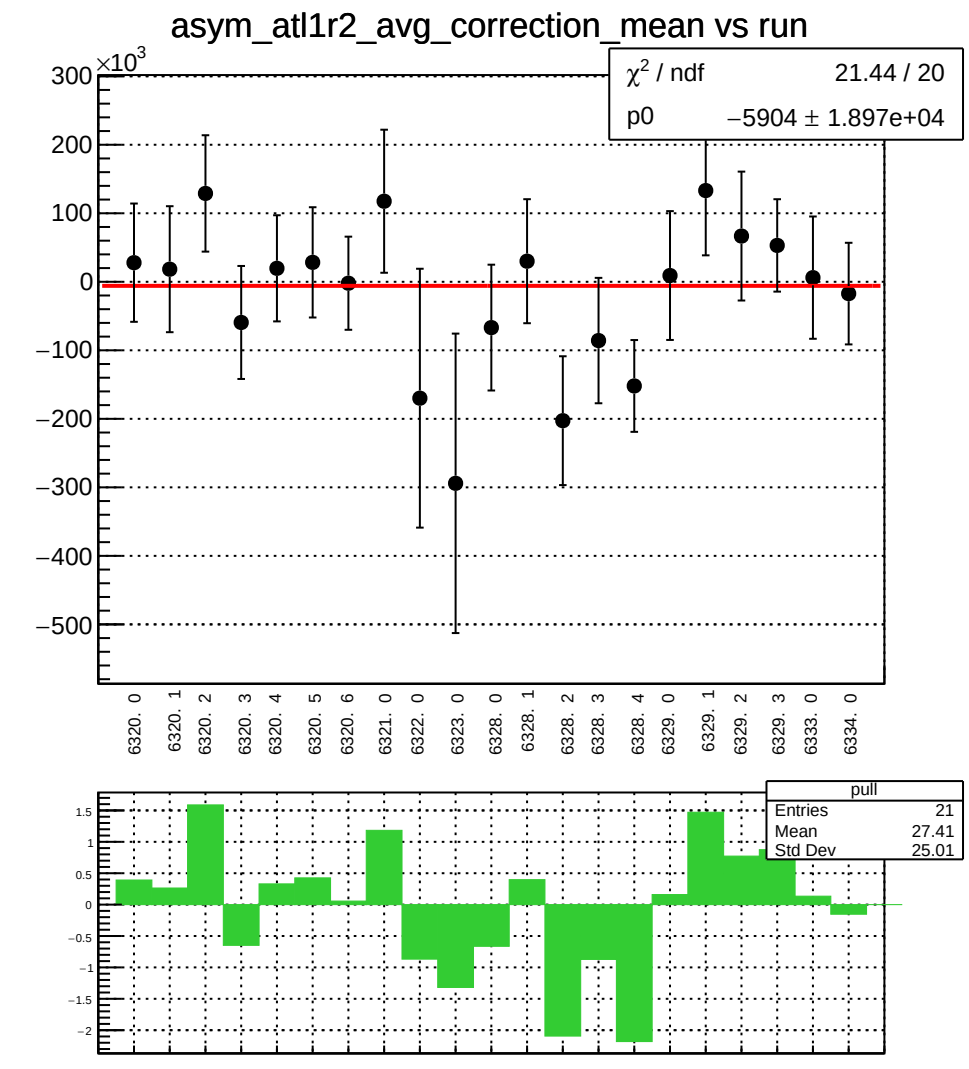

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 13.86 / 20
p0 4827 ± 9163
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.02
Std Dev 24.99
1.5
1
0.5
0
−0.5
−1
−1.5

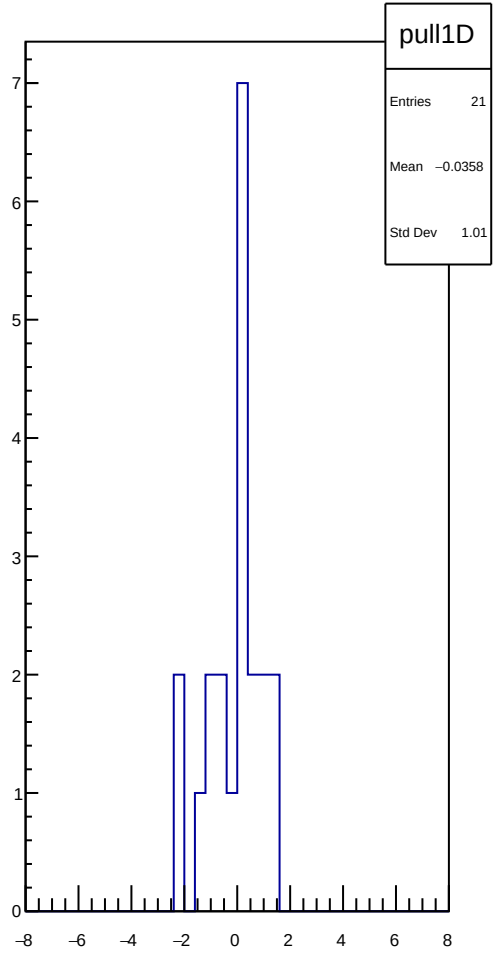

pull1D
Entries 21
Mean 0.03106
Std Dev 0.8118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

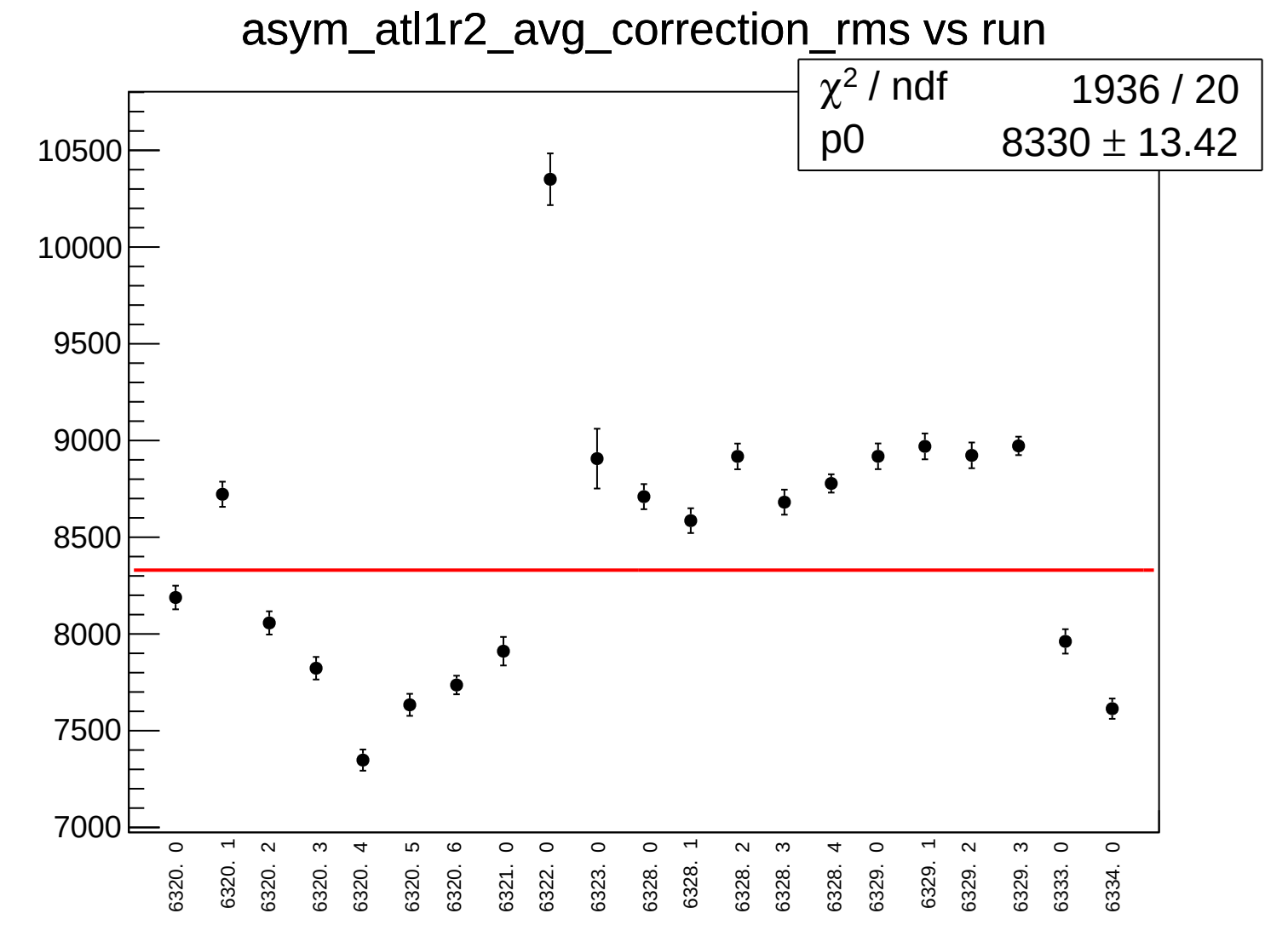

asym_at2_dd_rms vs run
χ² / ndf 2439 / 20
p0 4020 ± 6.479
5500
5000
4500
4000
3500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

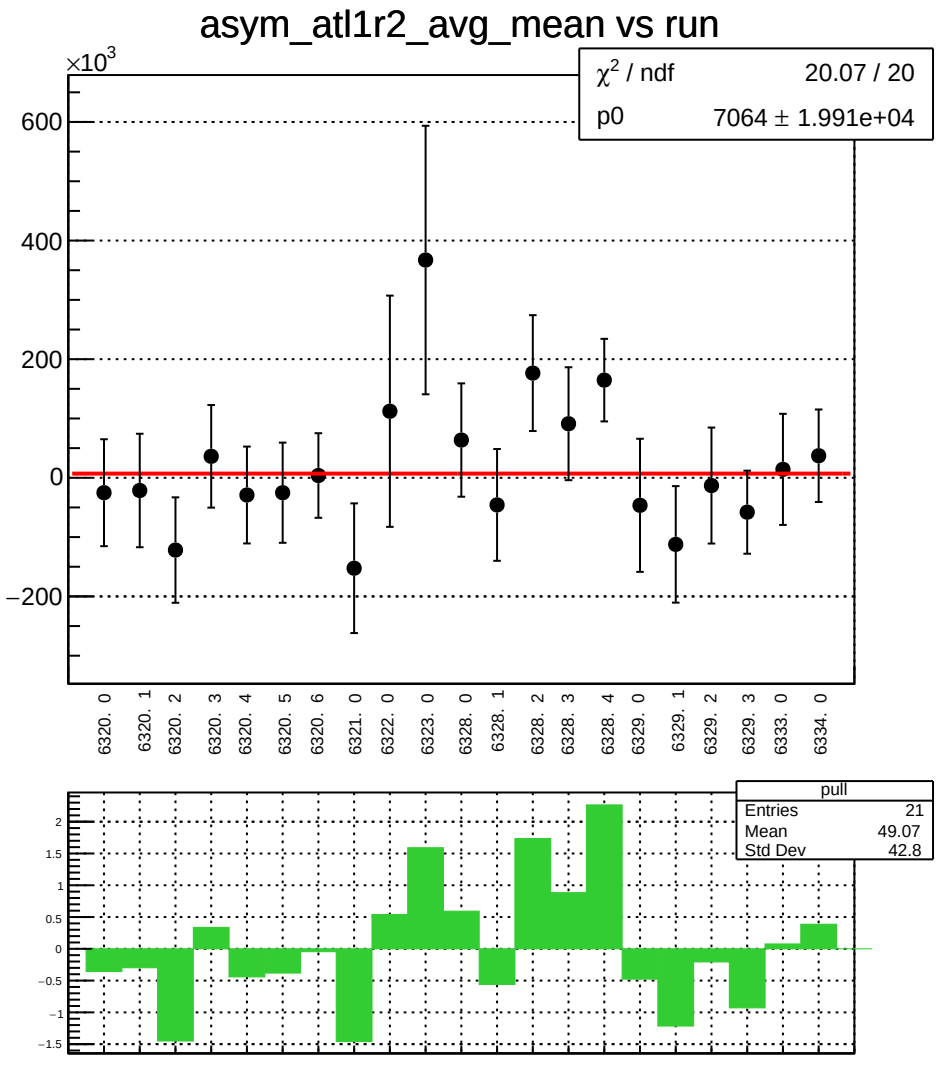

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 13.15 / 20
p0 1781 ± 5780
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −60.24
Std Dev 72.58
pull1D
Entries 21
Mean −0.02591
Std Dev 0.791

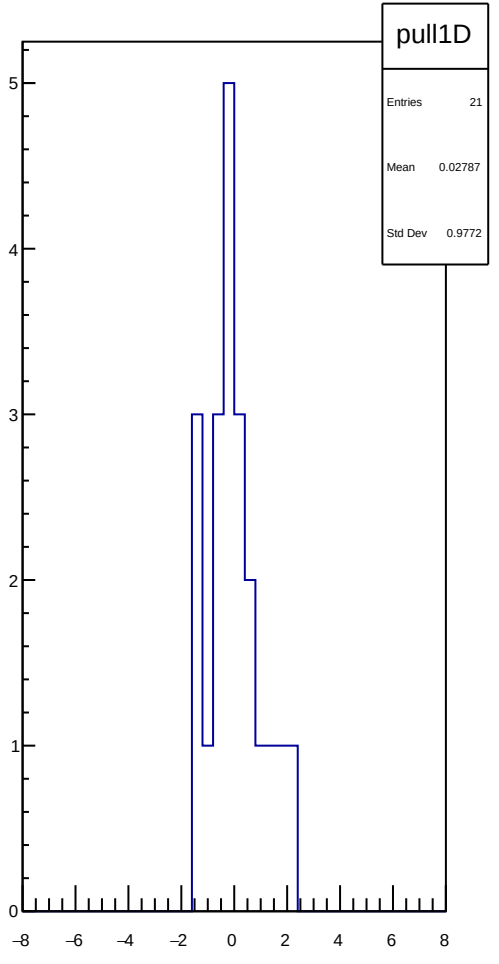

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 5886 / 20
p0 2525 ± 4.087
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

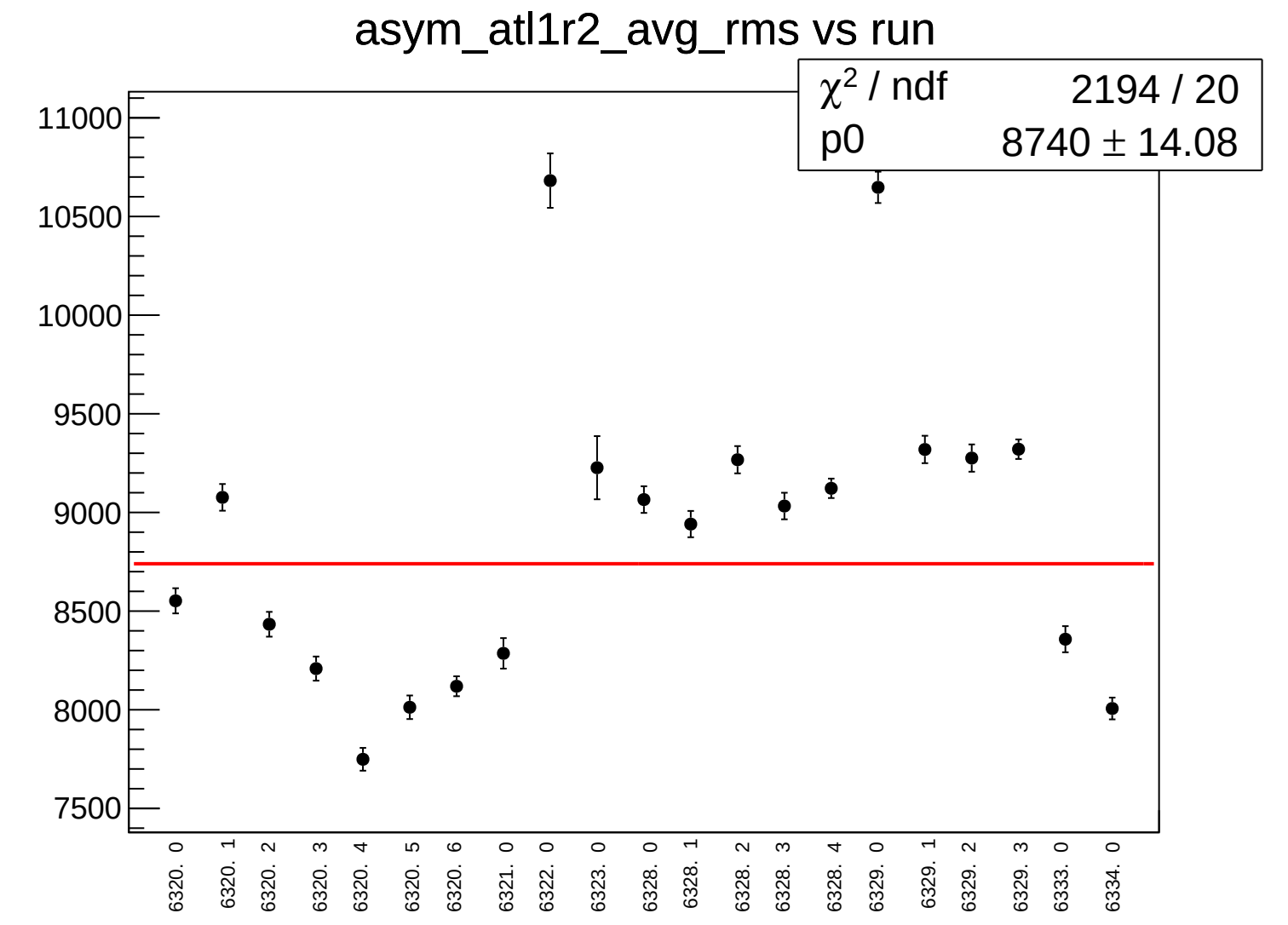

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 21.44 / 20
p0 −5904 ± 1.897e+04
300
200
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.41
Std Dev 25.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2

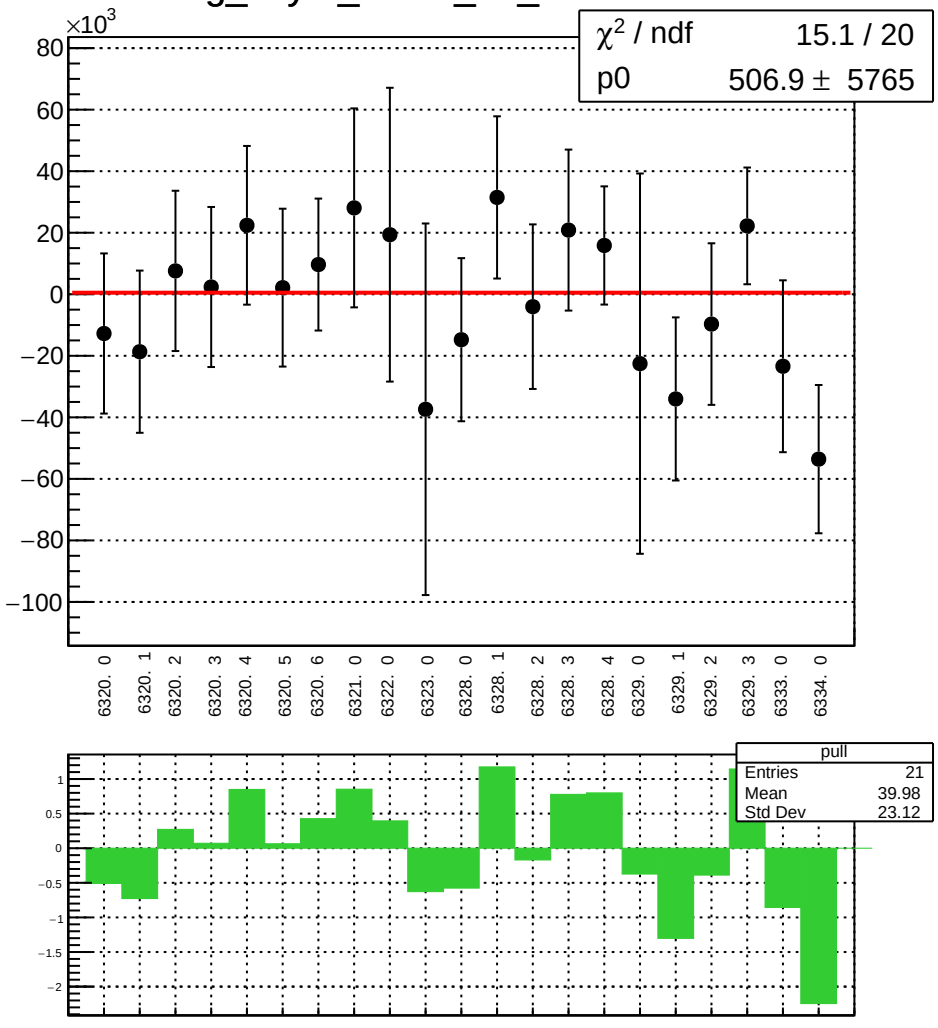

pull1D
Entries 21
Mean −0.0358
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

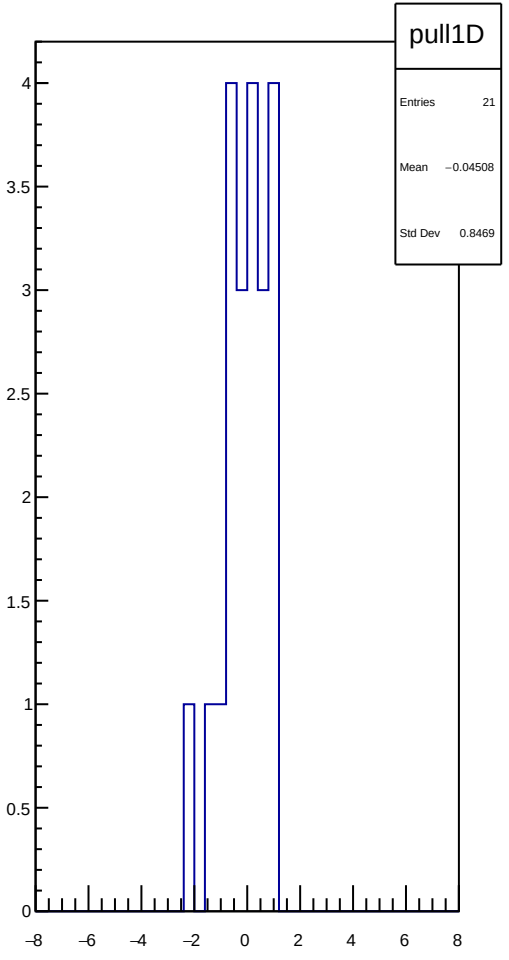

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1936 / 20
p0 8330 ± 13.42
10500
10000
9500
9000
8500
8000
7500
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

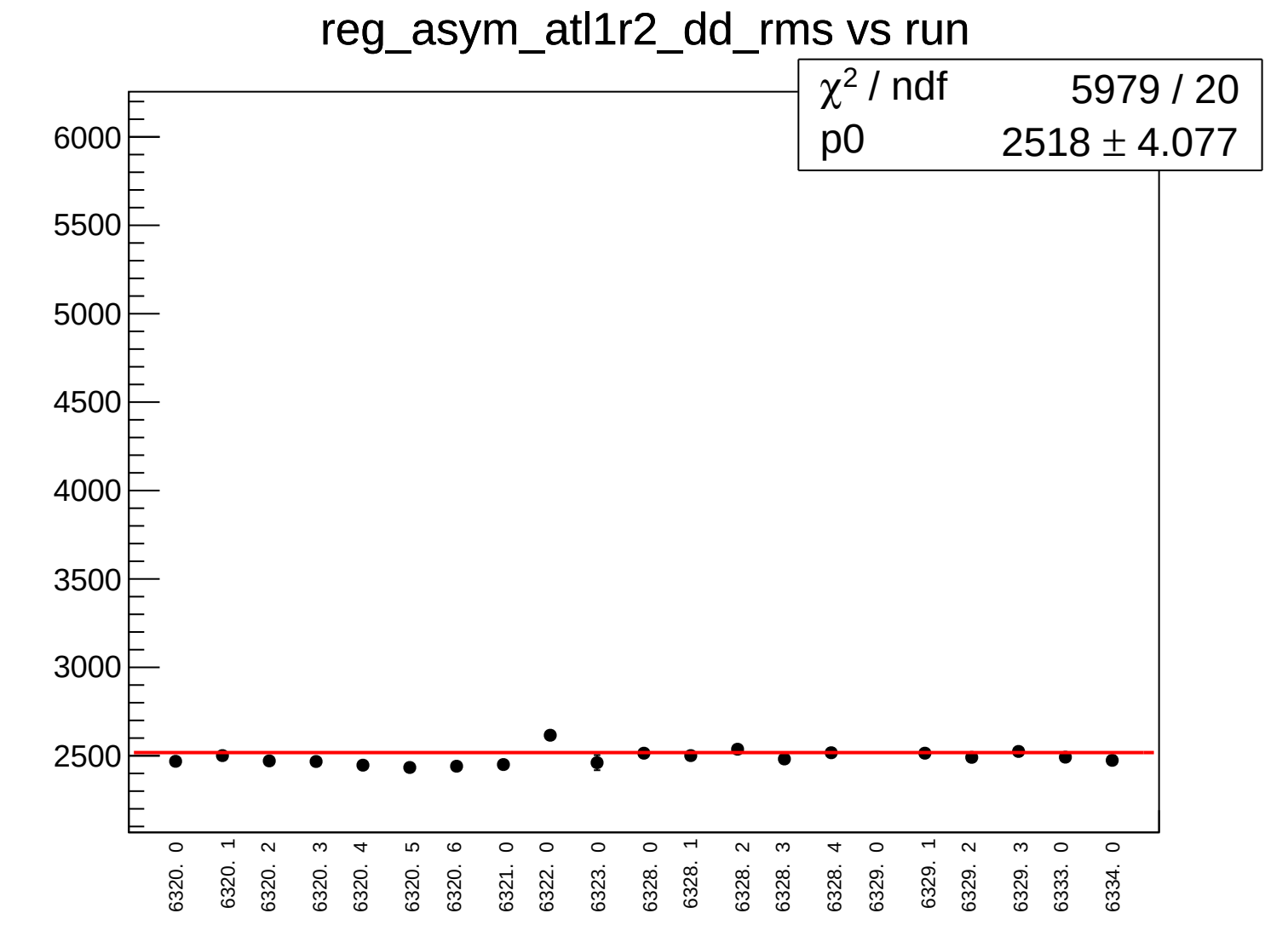

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 20.07 / 20
p0 7064 ± 1.991e+04
600
400
200
0
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 49.07
Std Dev 42.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

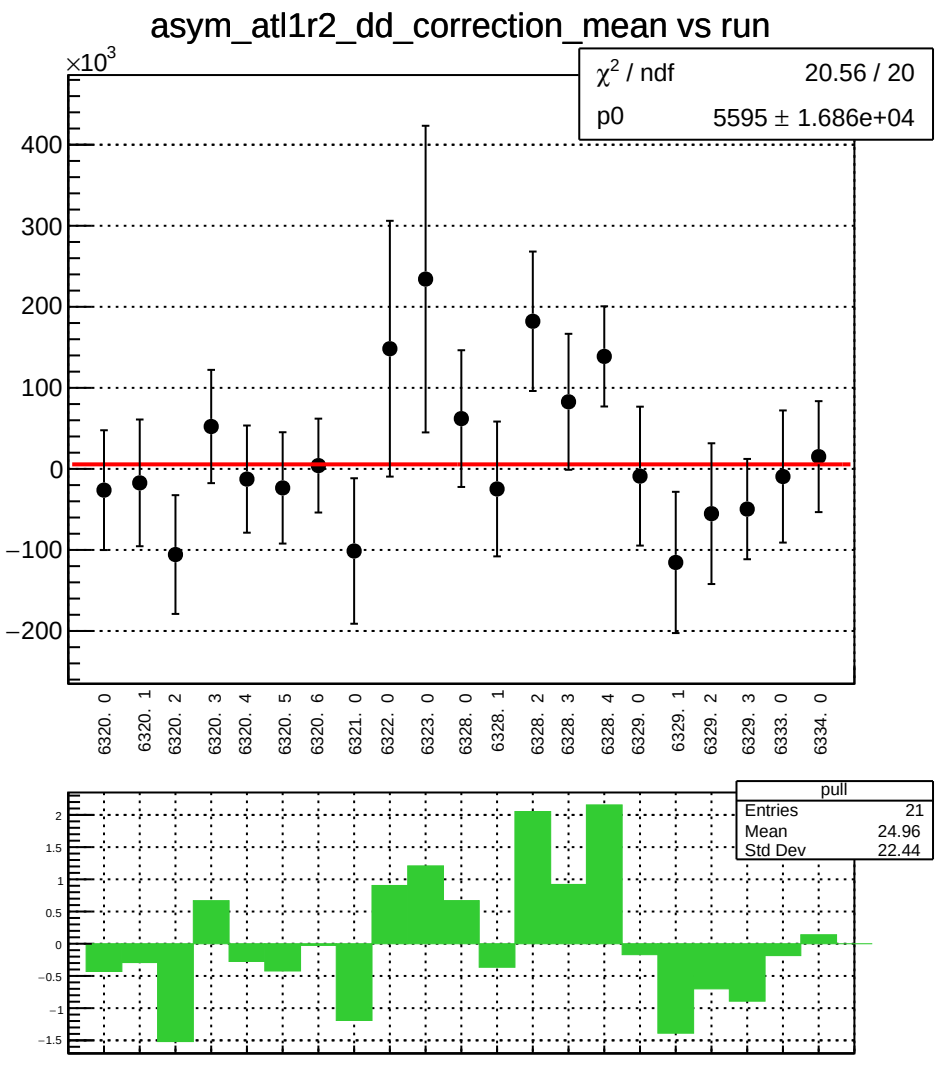

pull1D
Entries 21
Mean 0.02787
Std Dev 0.9772
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

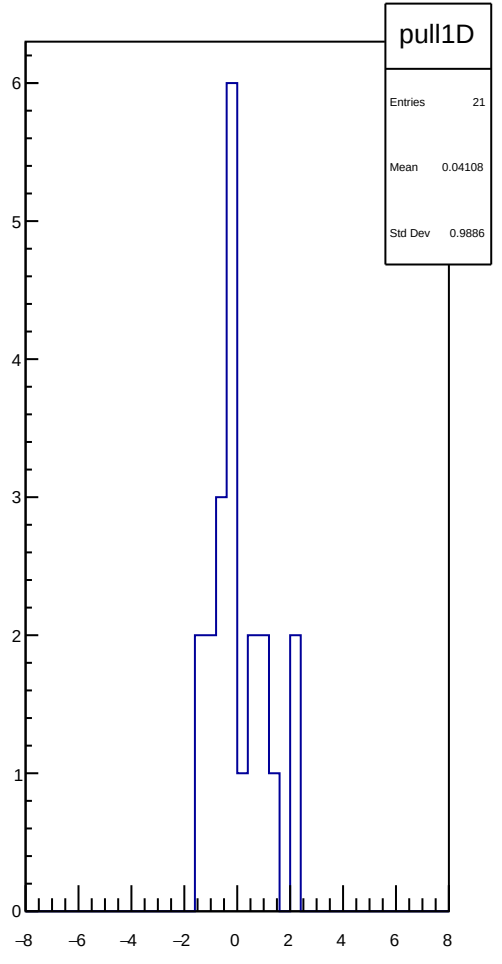

asym_atl1r2_avg_rms vs run
χ² / ndf 2194 / 20
p0 8740 ± 14.08
11000
10500
10000
9500
9000
8500
8000
7500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

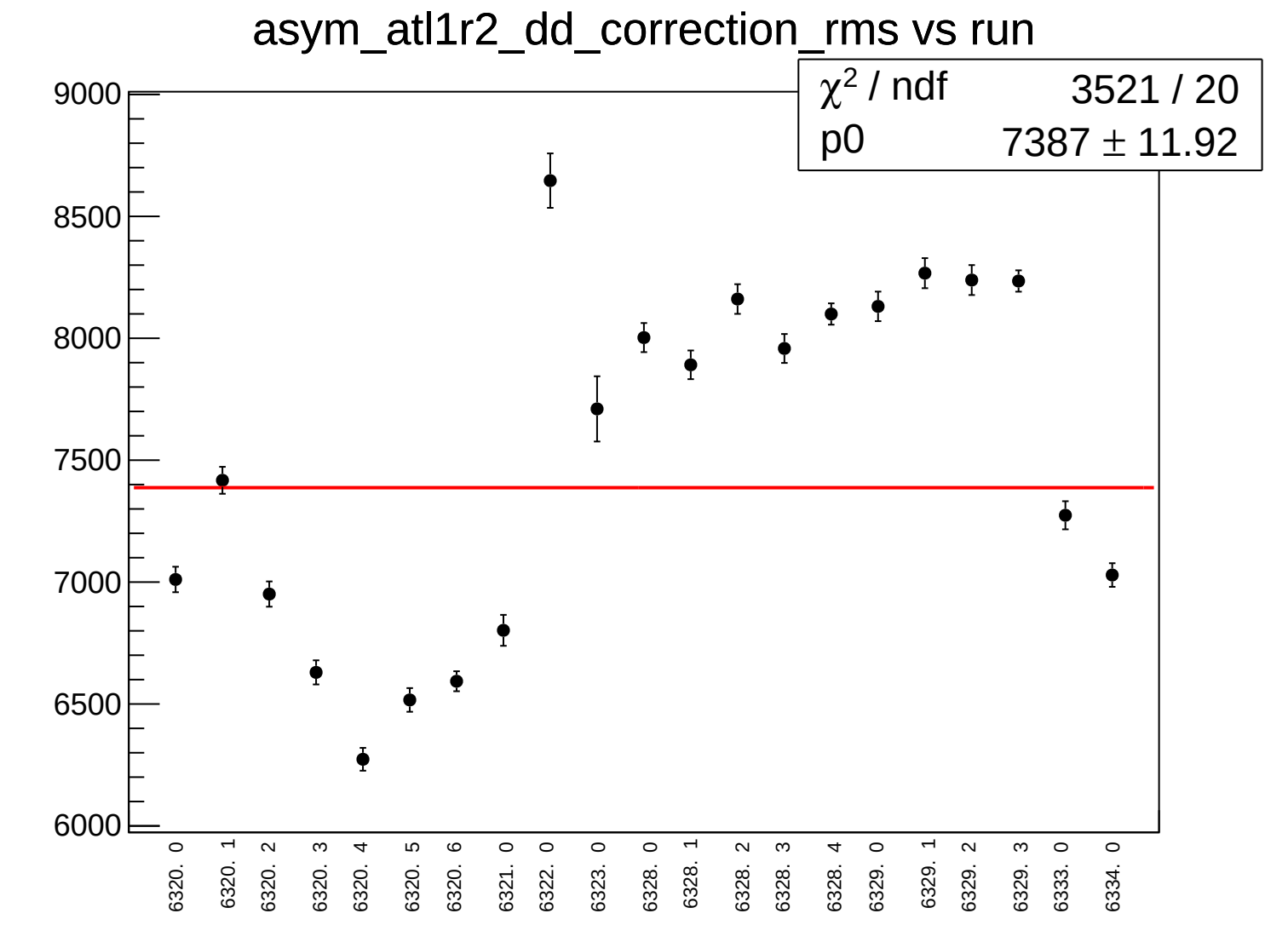

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 15.1 / 20
p0 506.9 ± 5765
×10³
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 39.98
Std Dev 23.12

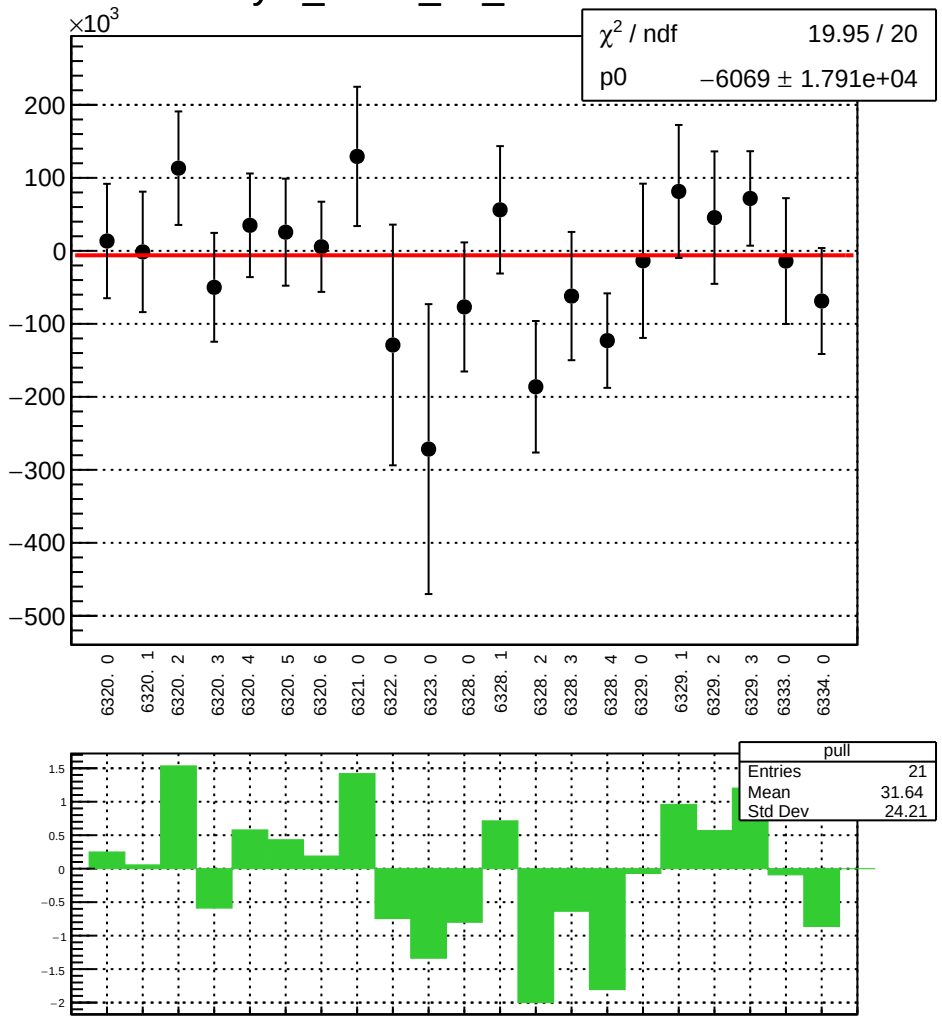

pull1D
Entries 21
Mean −0.04508
Std Dev 0.8469

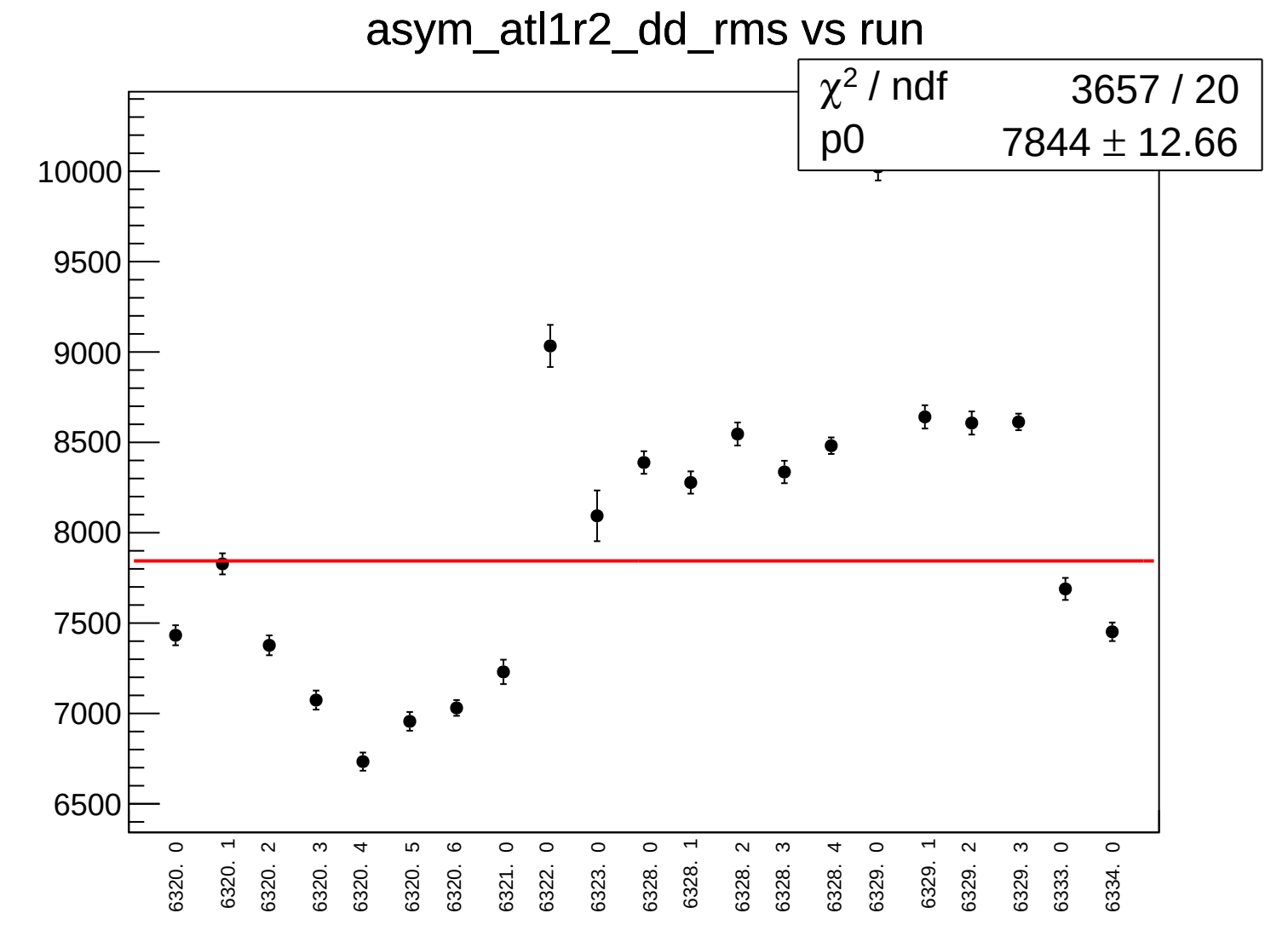

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 5979 / 20
p0 2518 ± 4.077
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

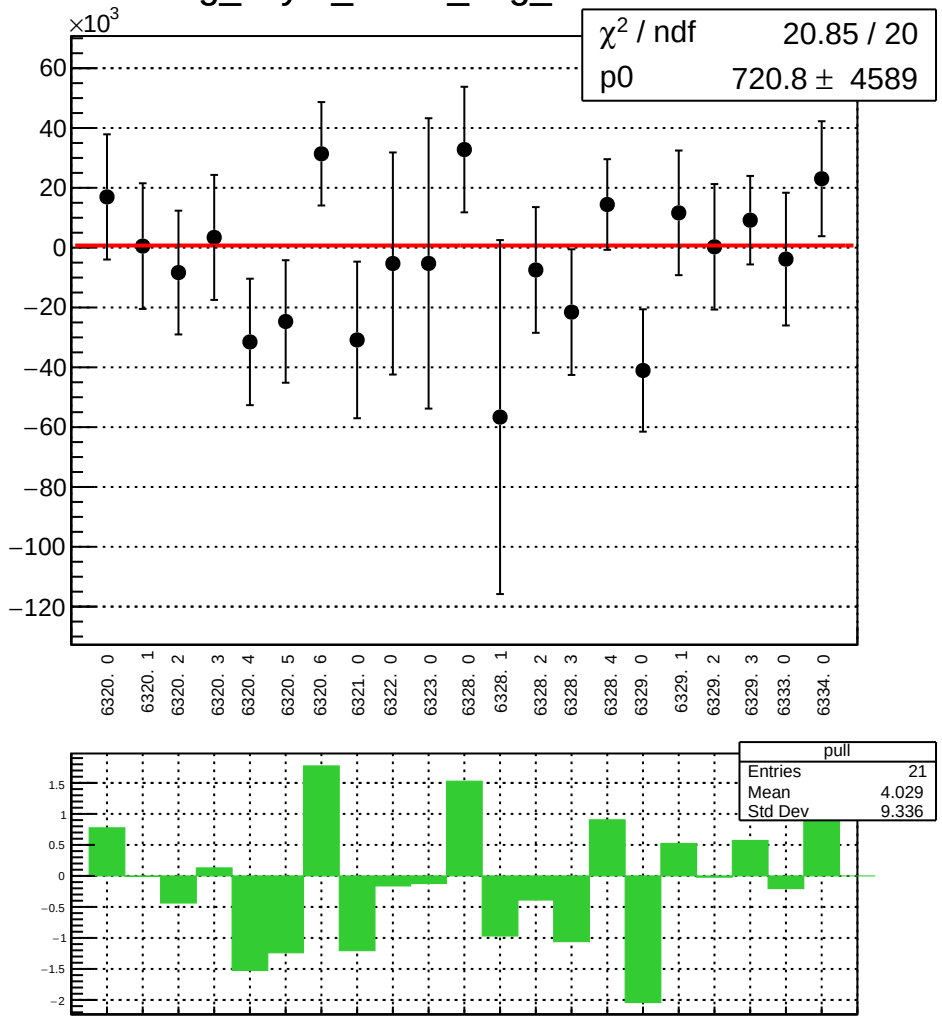

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 20.56 / 20
p0 5595 ± 1.686e+04
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.96
Std Dev 22.44
2
1.5
1
0.5
0
−0.5
−1
−1.5

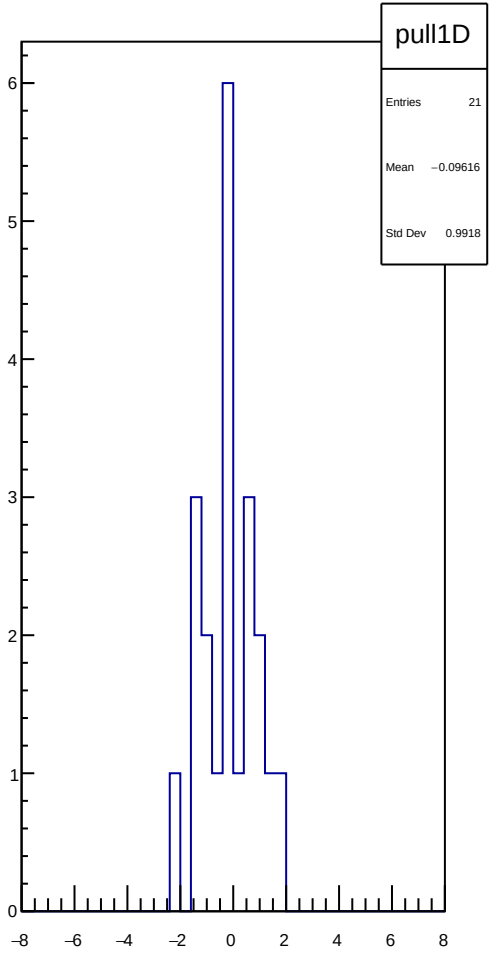

pull1D
Entries 21
Mean 0.04108
Std Dev 0.9886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

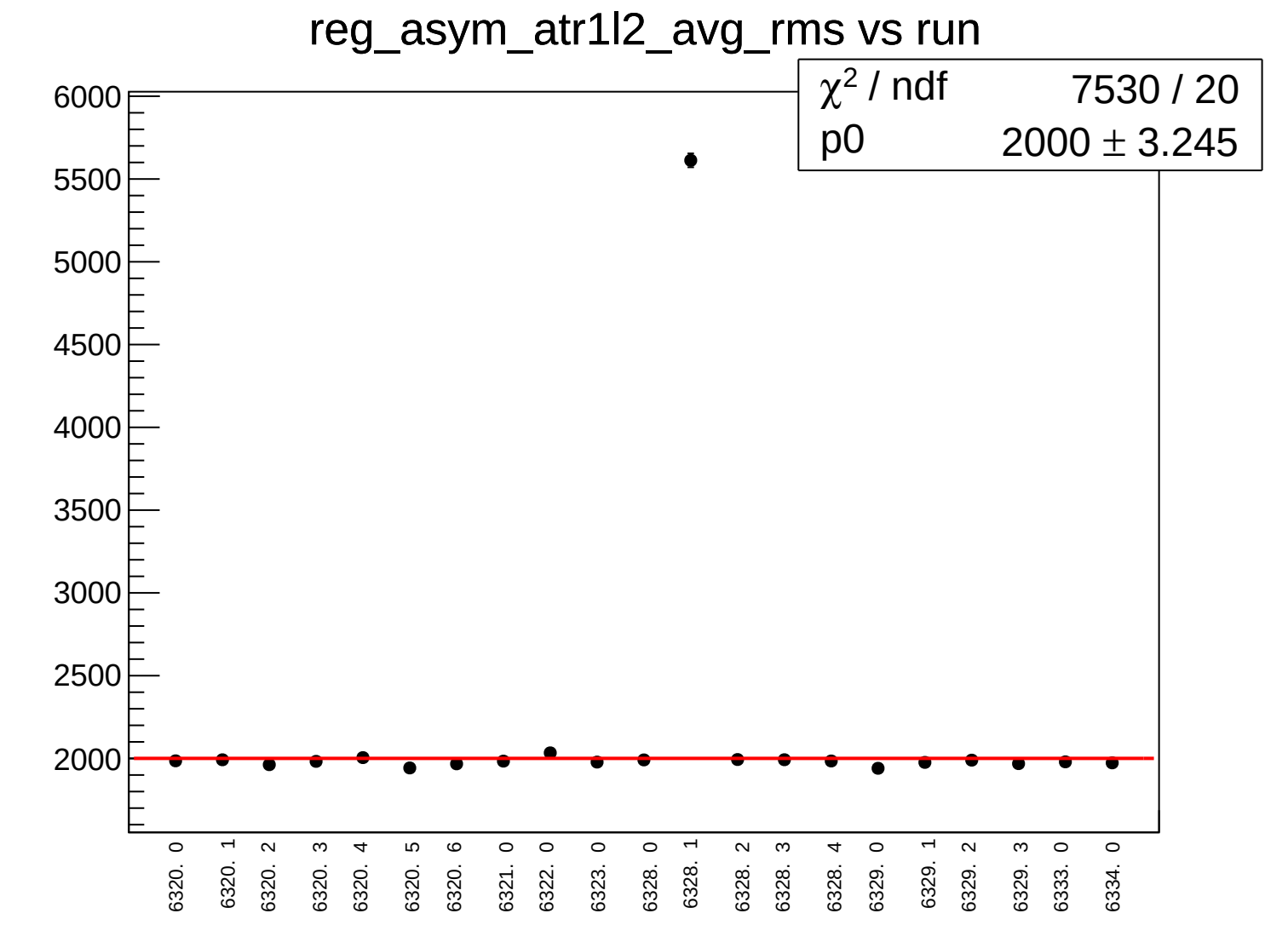

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3521 / 20
p0 7387 ± 11.92
9000
8500
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

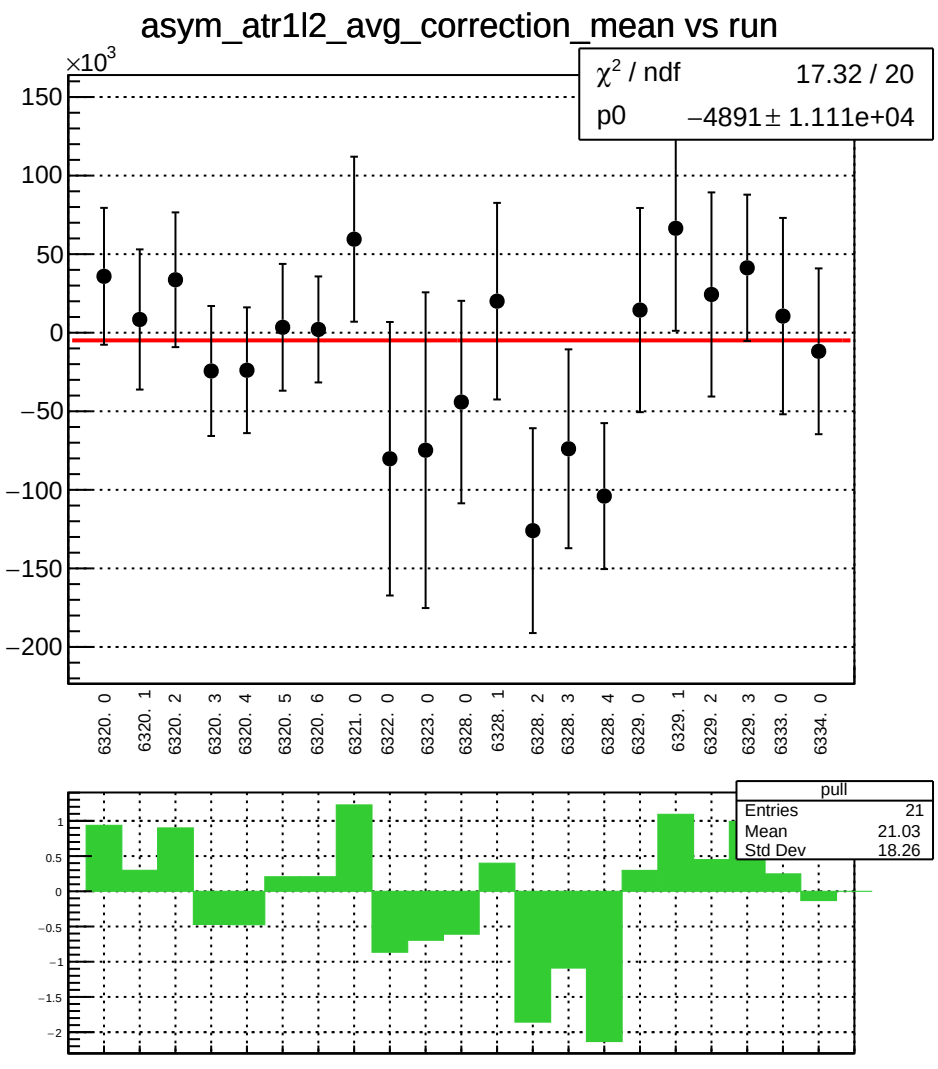

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 19.95 / 20
p0 −6069 ± 1.791e+04
200
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 31.64
Std Dev 24.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.0492
Std Dev 0.9734
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

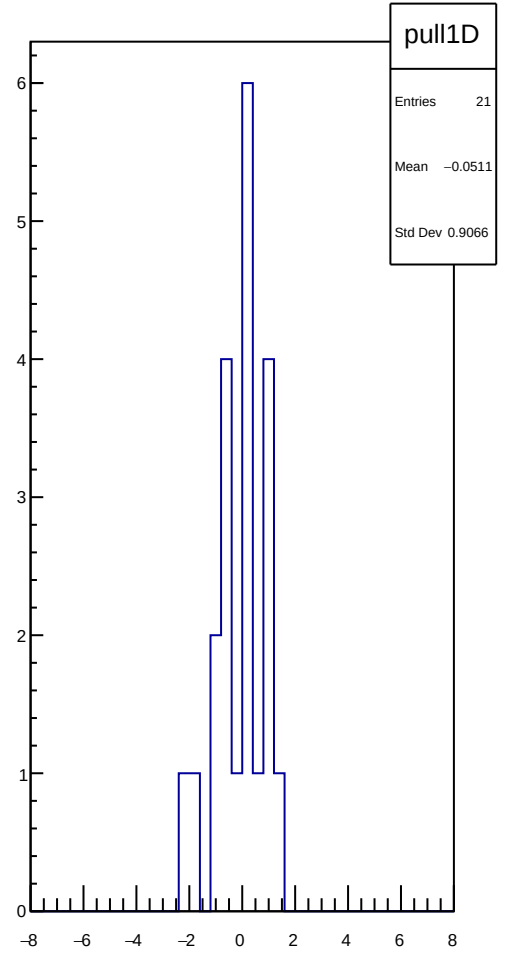

asym_atl1r2_dd_rms vs run
χ² / ndf 3657 / 20
p0 7844 ± 12.66
10000
9500
9000
8500
8000
7500
7000
6500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

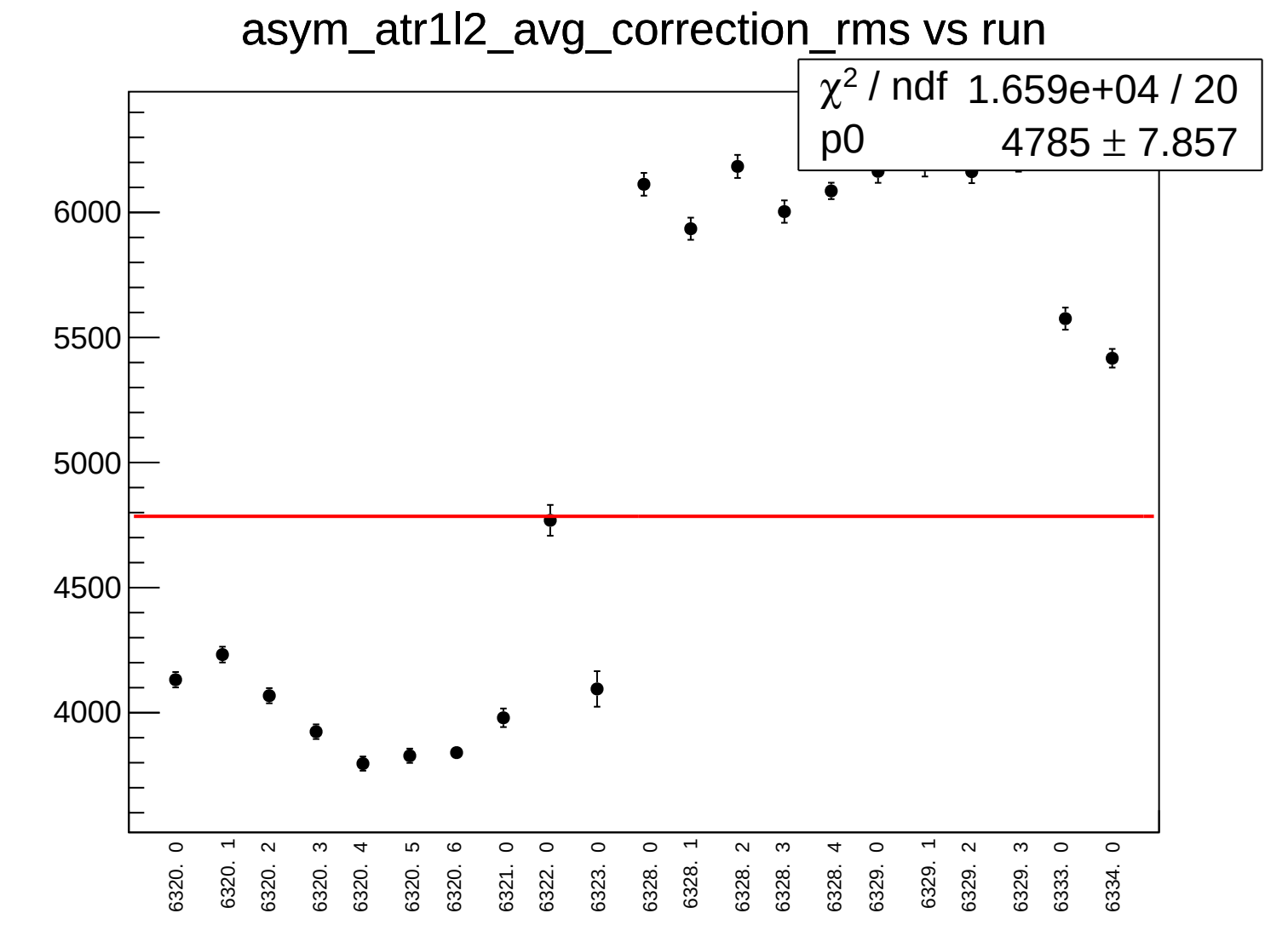

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 20.85 / 20
p0 720.8 ± 4589
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 4.029
Std Dev 9.336
1.5
1
0.5
0
−0.5
−1
−1.5
−2

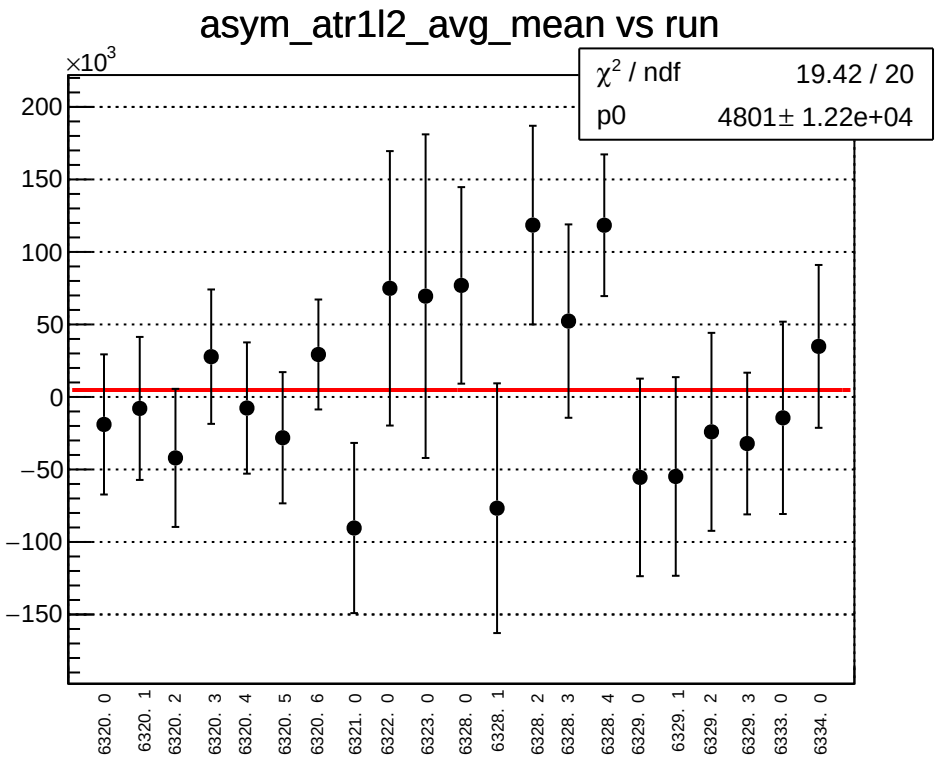

pull1D
Entries 21
Mean −0.09616
Std Dev 0.9918
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

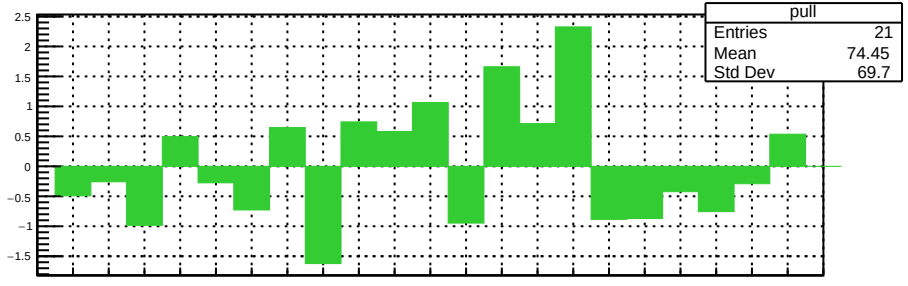

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 7530 / 20
p0 2000 ± 3.245
6000
5500
5000
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

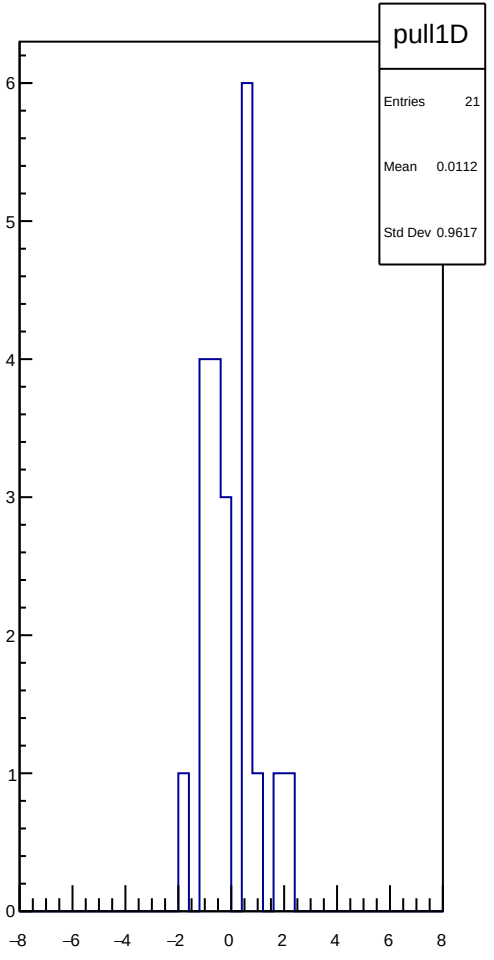

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 17.32 / 20
p0 −4891 ± 1.111e+04
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 21.03
Std Dev 18.26
1
0.5
0
−0.5
−1
−1.5
−2

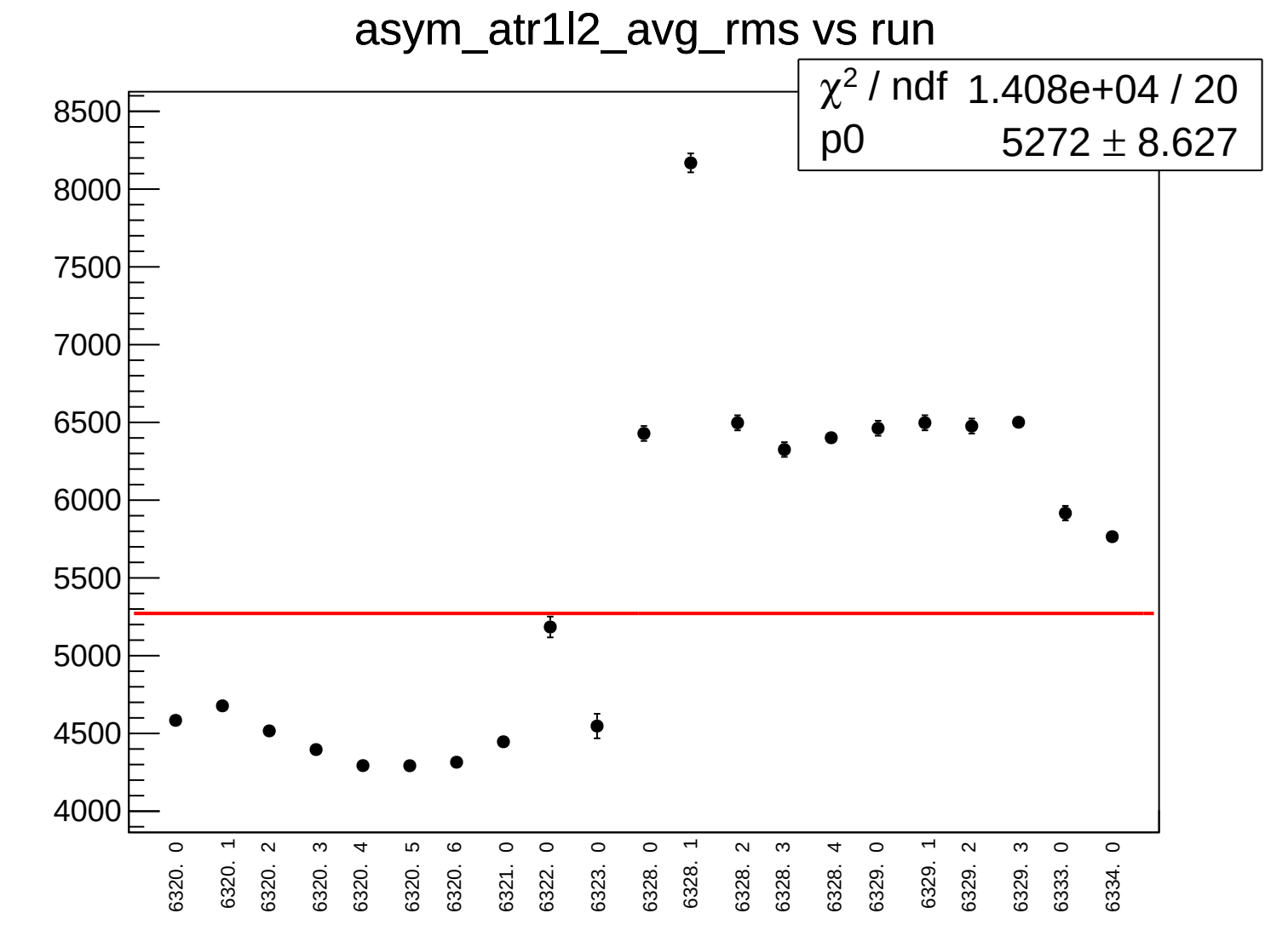

pull1D
Entries 21
Mean −0.0511
Std Dev 0.9066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

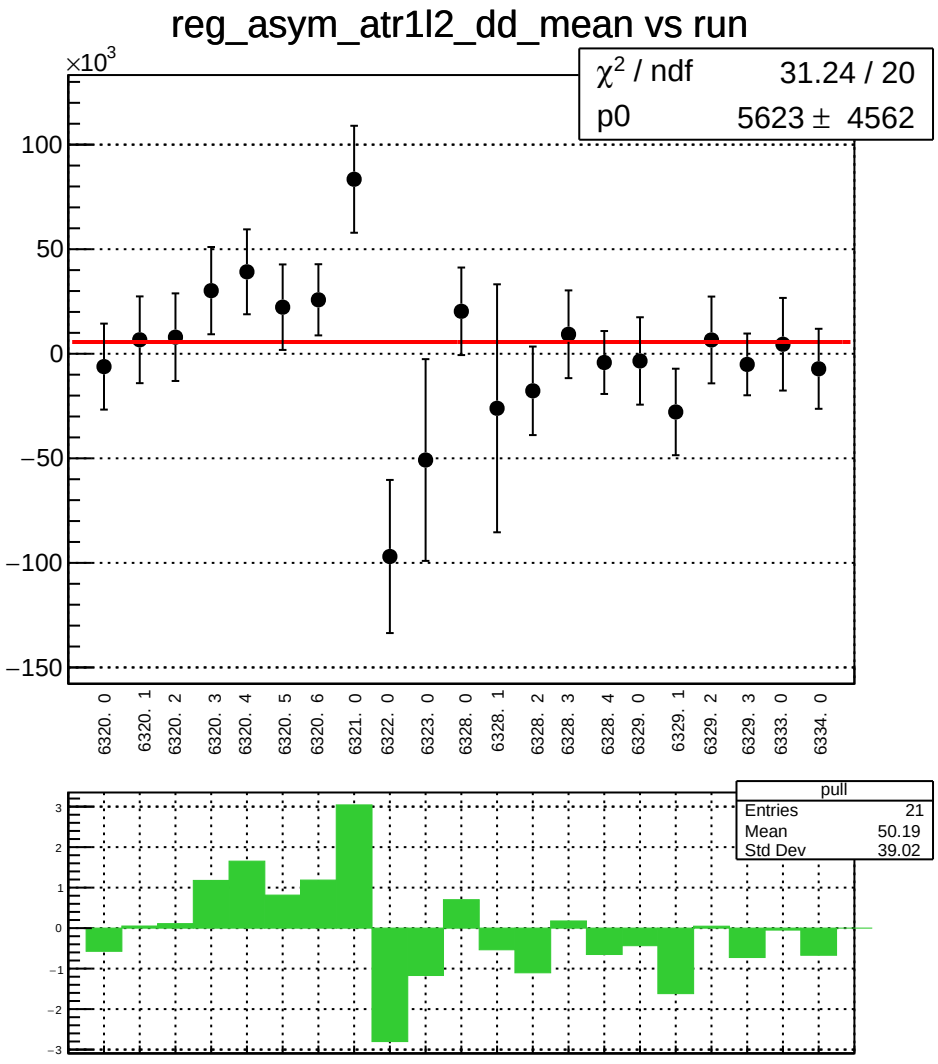

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.659e+04 / 20
p0 4785 ± 7.857
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

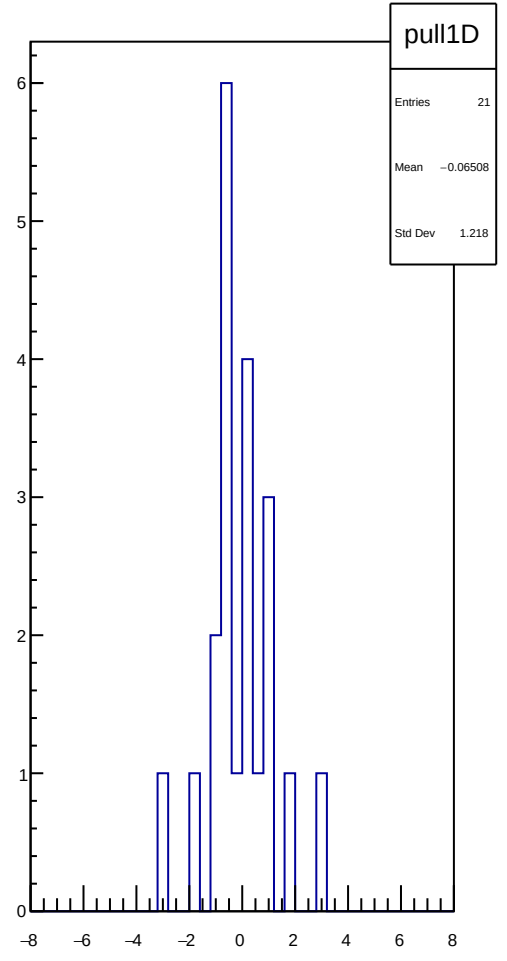

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 19.42 / 20
p0 4801± 1.22e+04
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

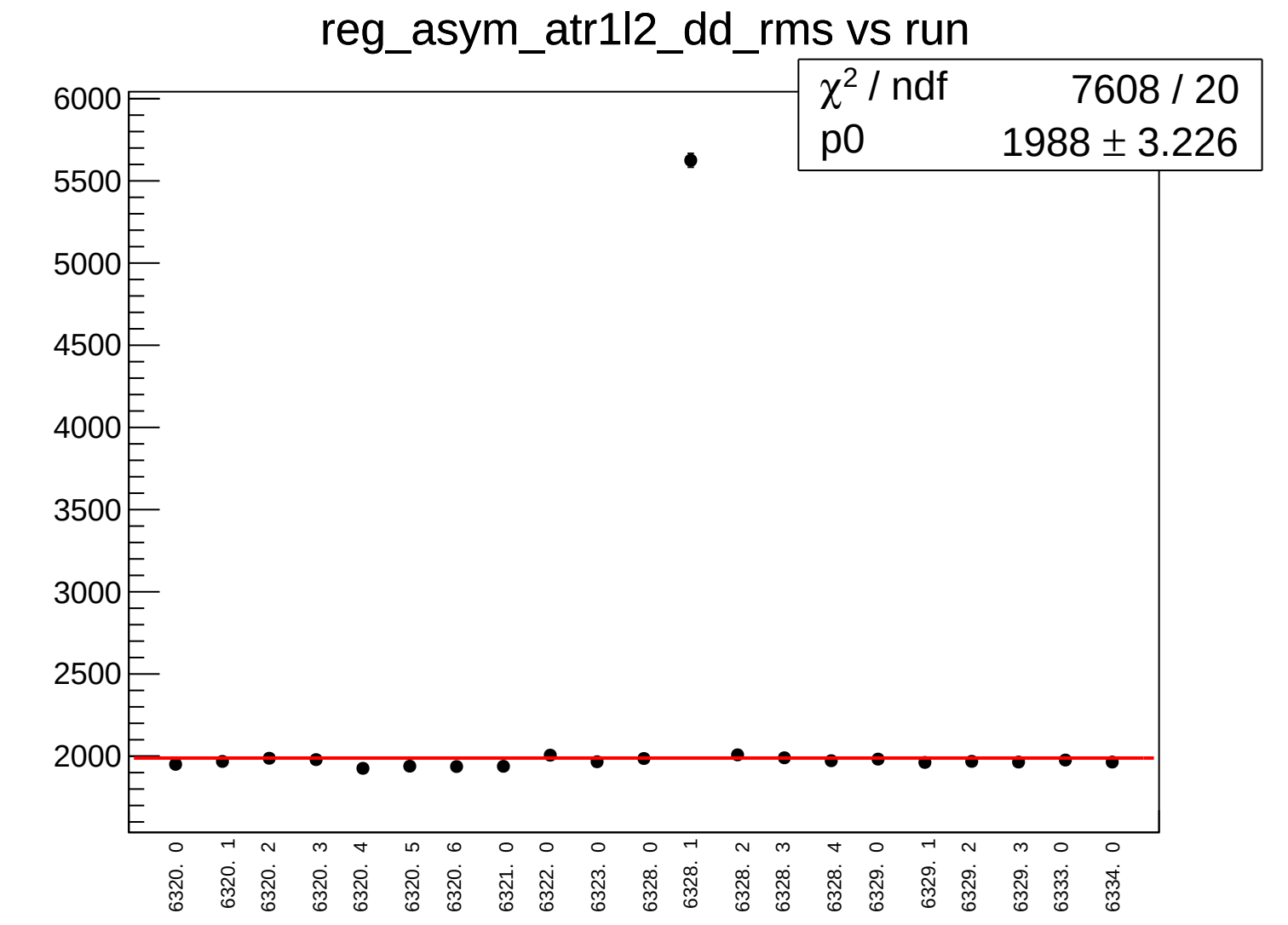

pull
Entries 21
Mean 74.45
Std Dev 69.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

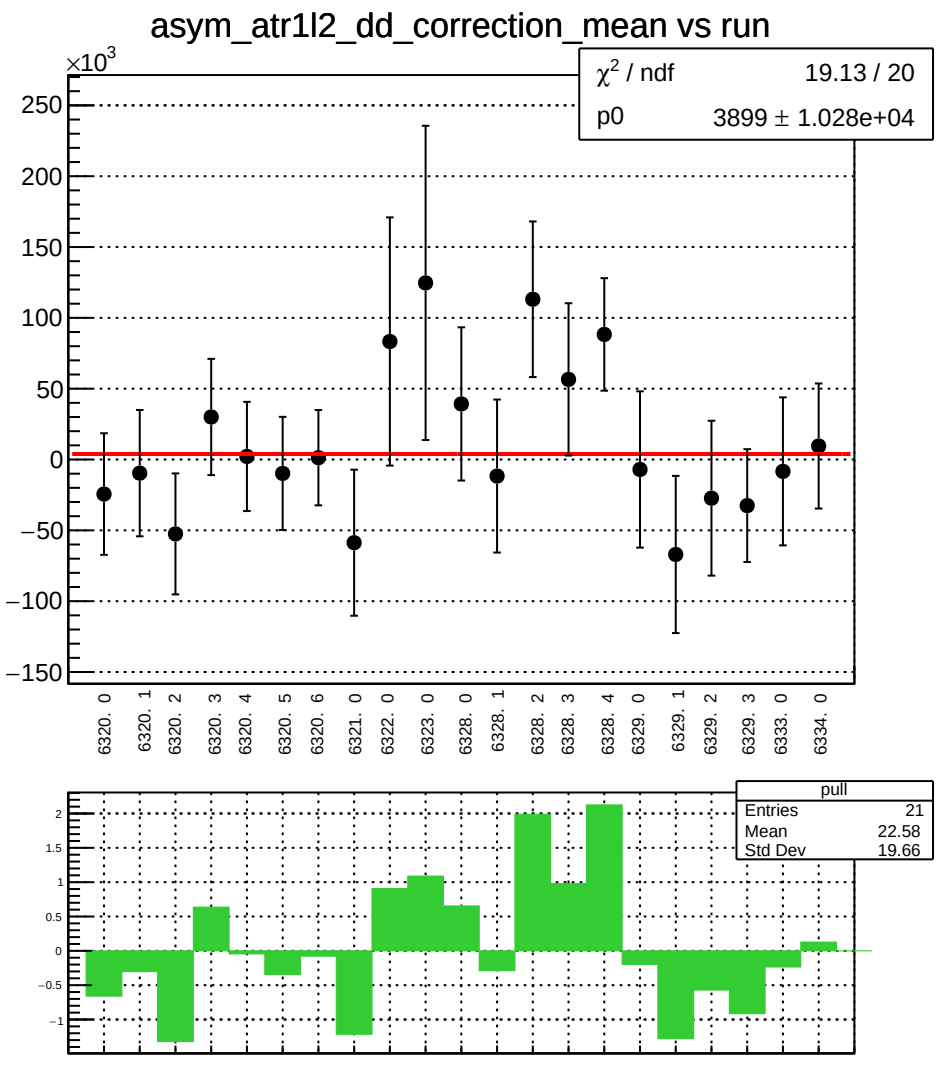

pull1D
Entries 21
Mean 0.0112
Std Dev 0.9617
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

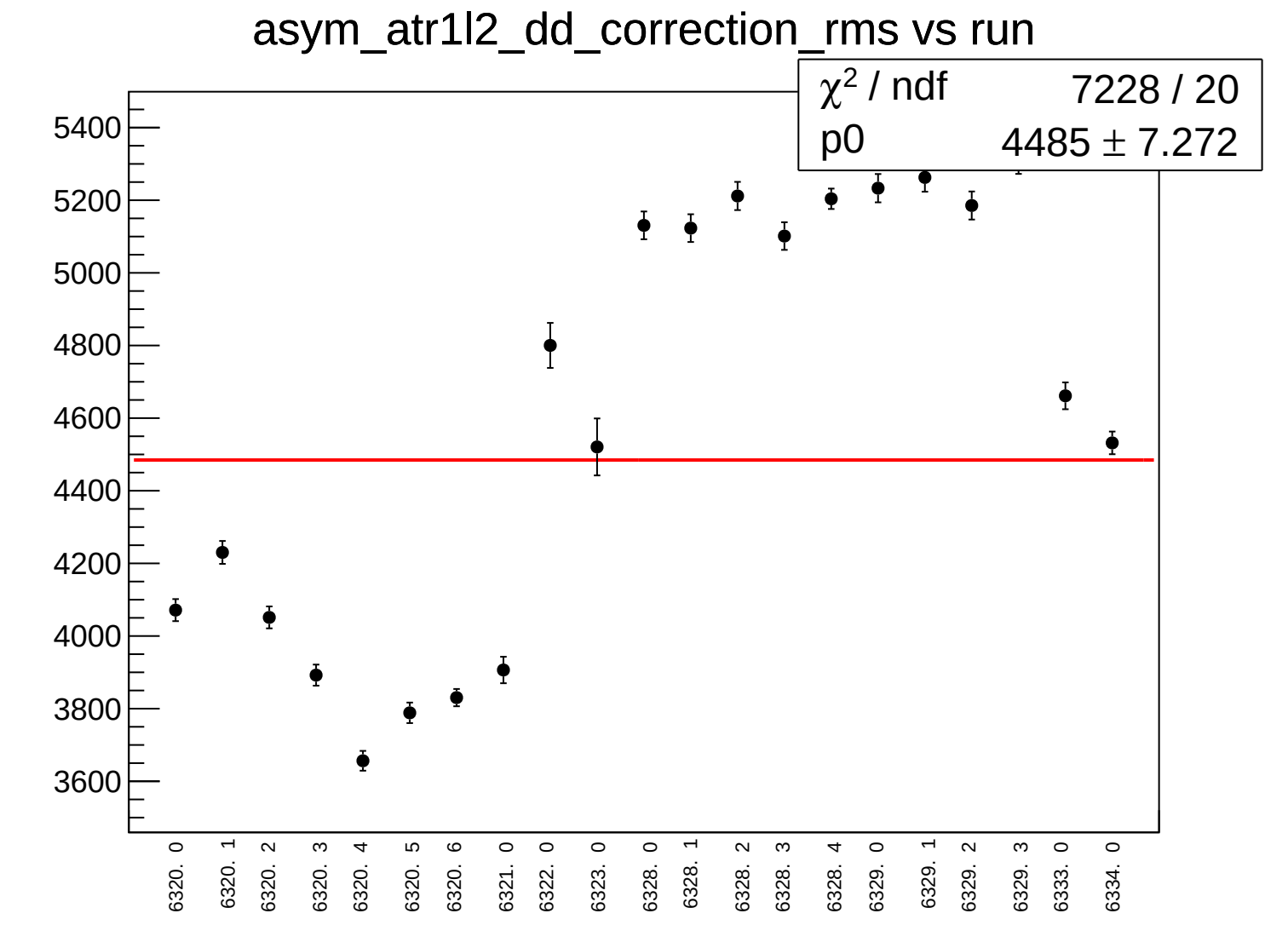

asym_atr1l2_avg_rms vs run
χ² / ndf 1.408e+04 / 20
p0 5272 ± 8.627
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

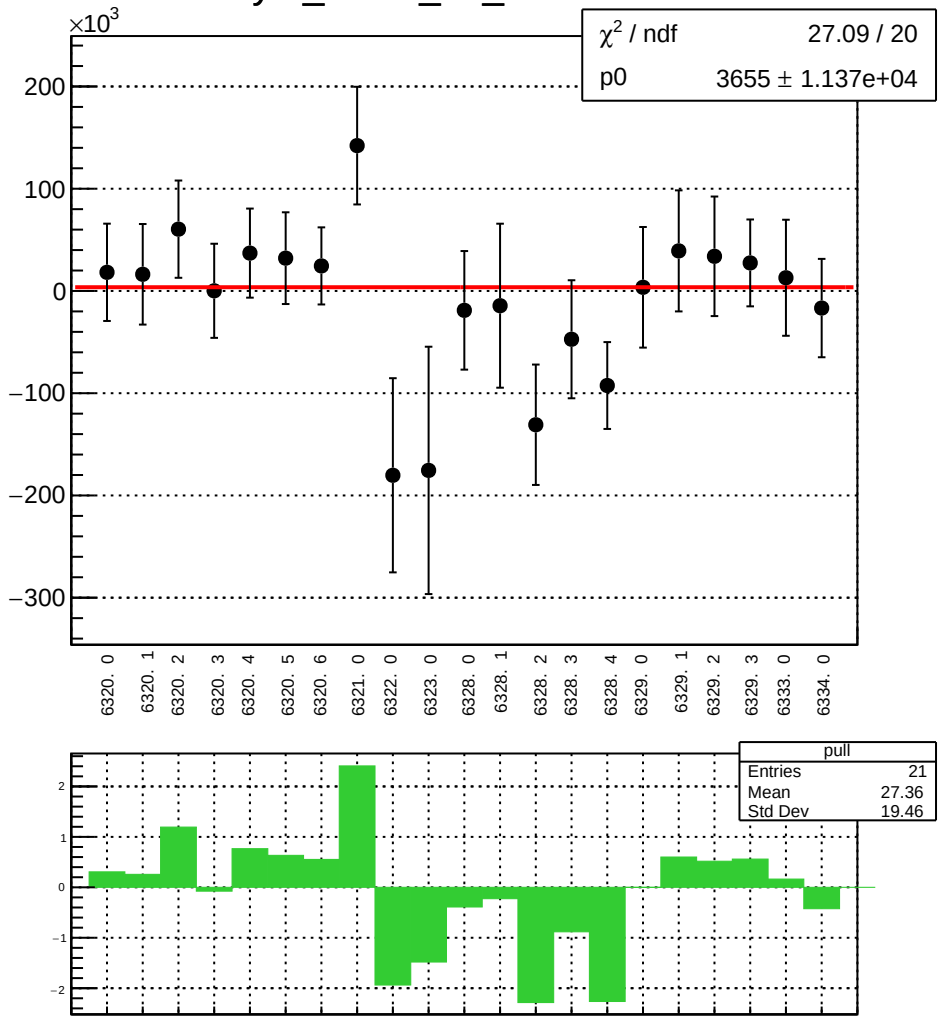

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 31.24 / 20
p0 5623 ± 4562
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 50.19
Std Dev 39.02
3
2
1
0
−1
−2
−3

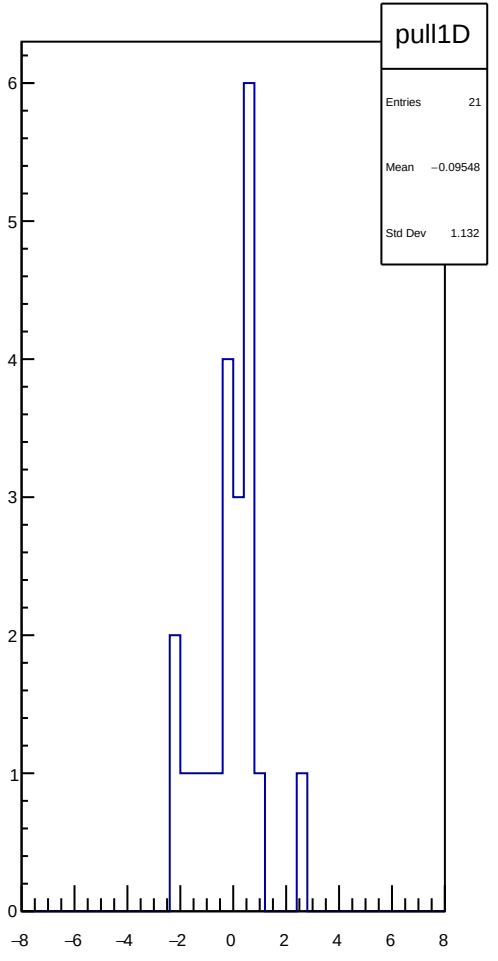

pull1D
Entries 21
Mean −0.06508
Std Dev 1.218
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

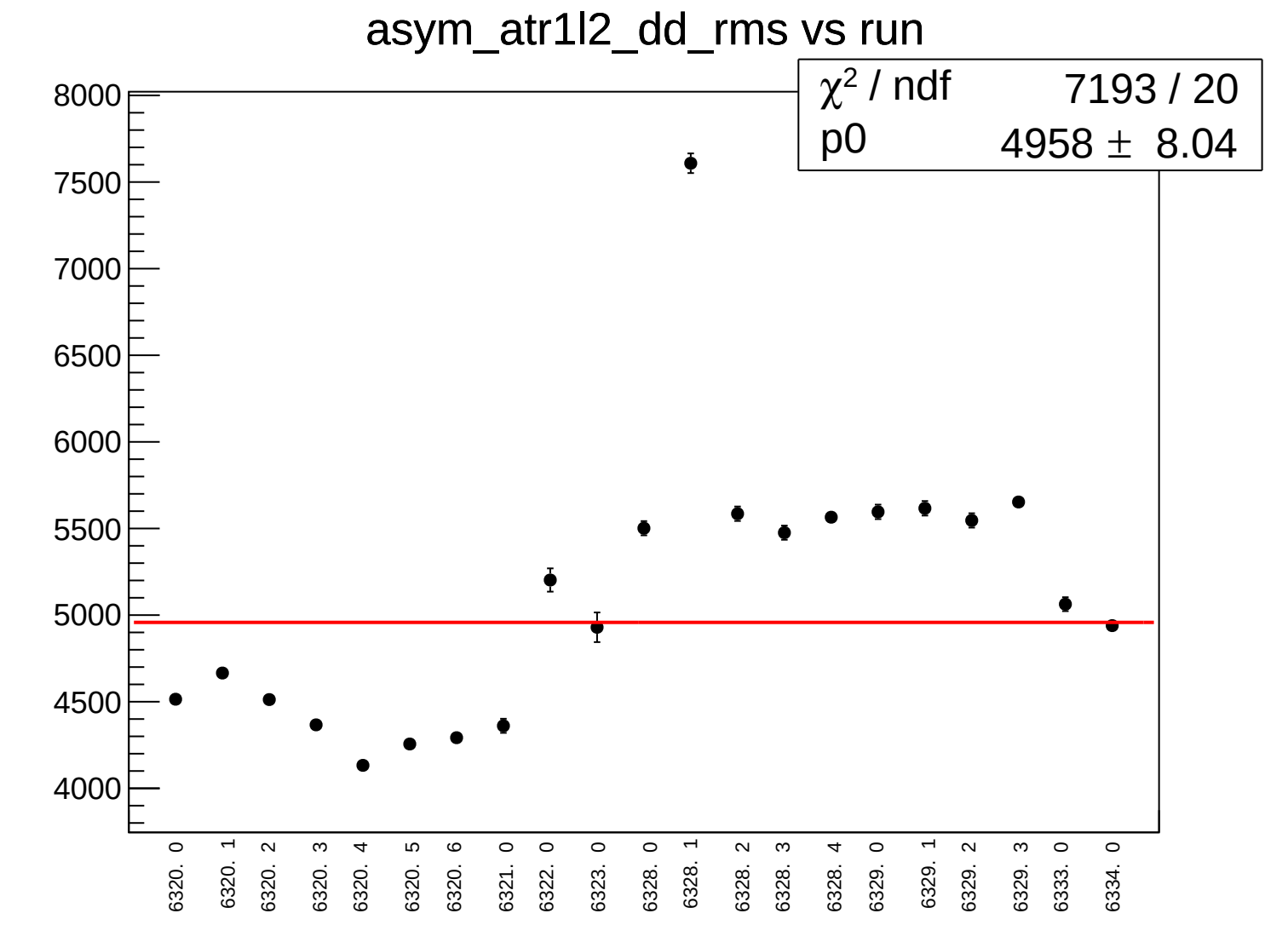

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 7608 / 20
p0 1988 ± 3.226
6000
5500
5000
4500
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

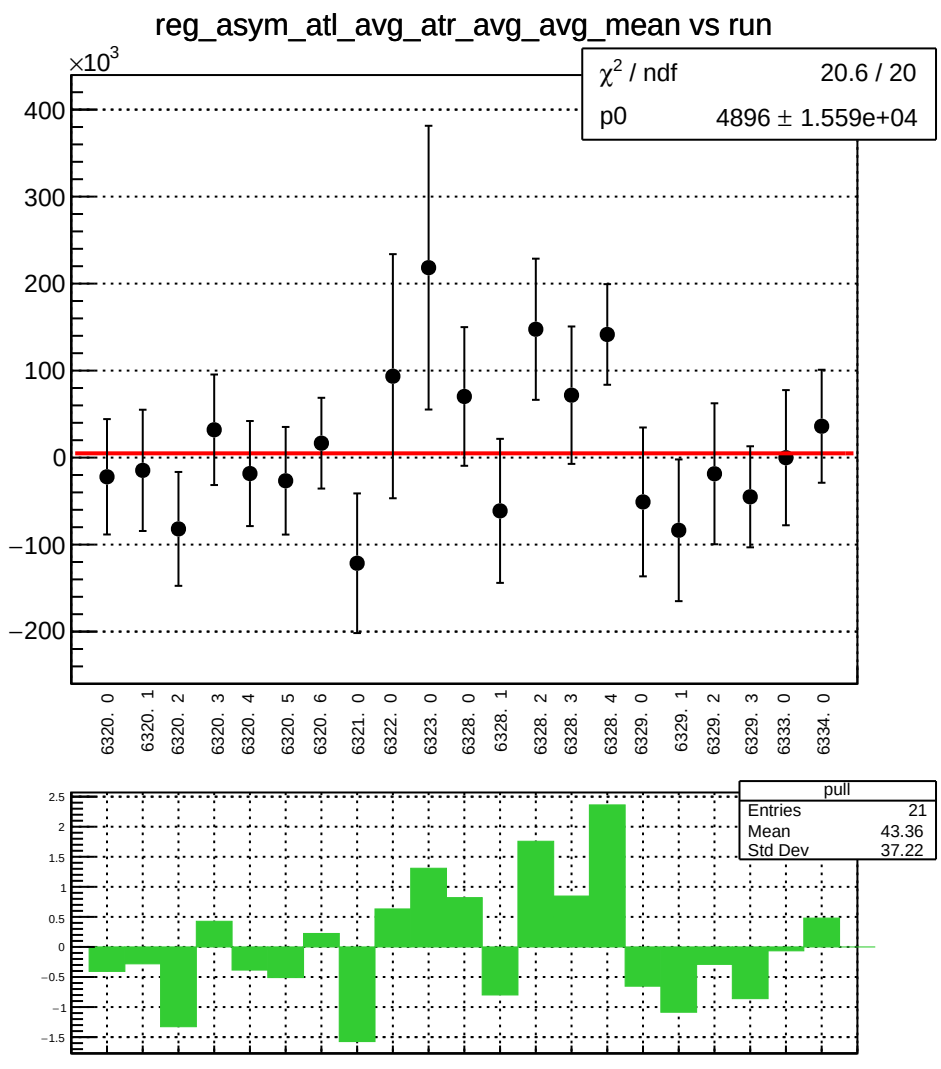

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 19.13 / 20
p0 3899 ± 1.028e+04
250
200
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 22.58
Std Dev 19.66
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.05038
Std Dev 0.9532
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

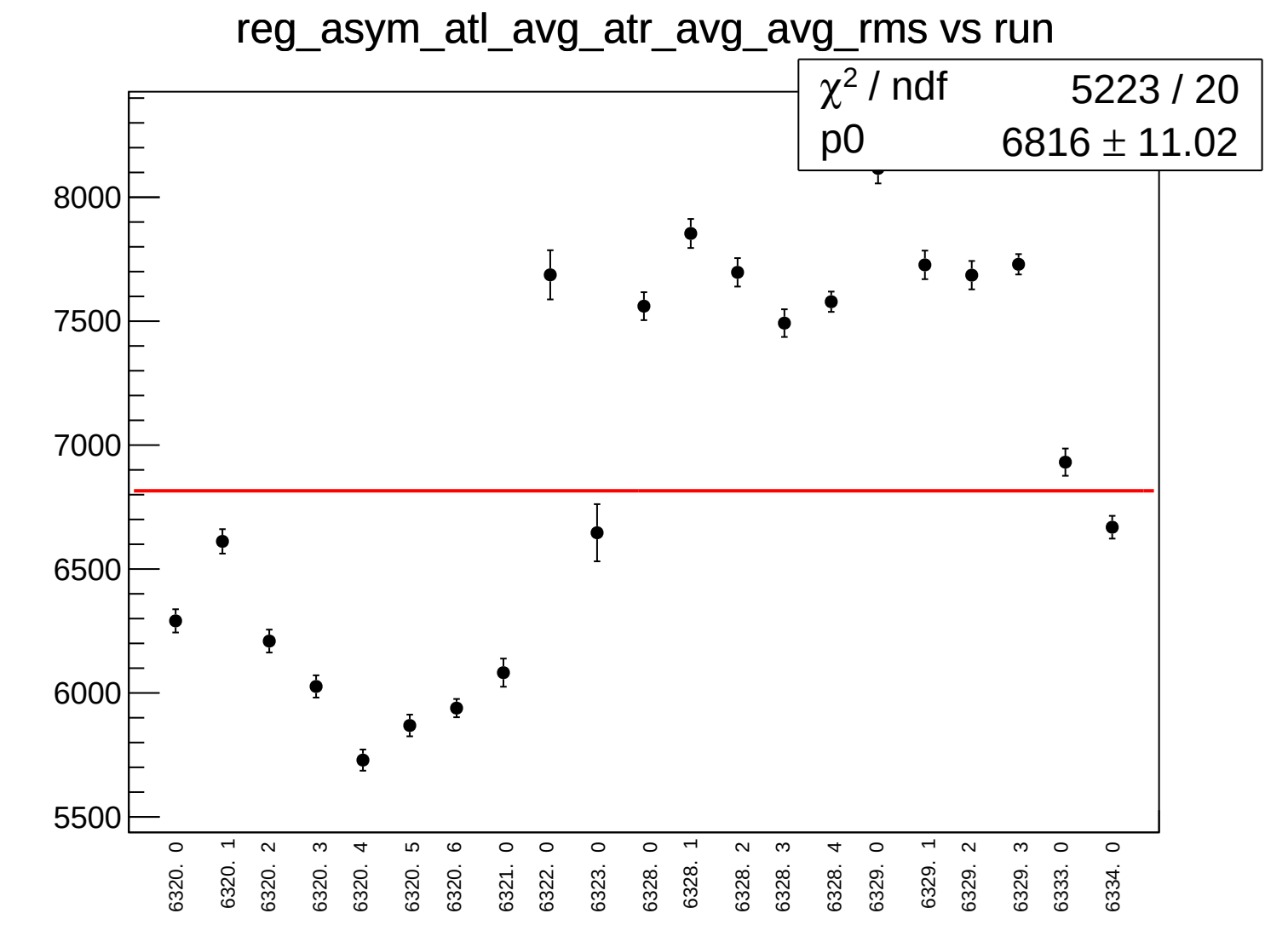

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 7228 / 20
p0 4485 ± 7.272
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

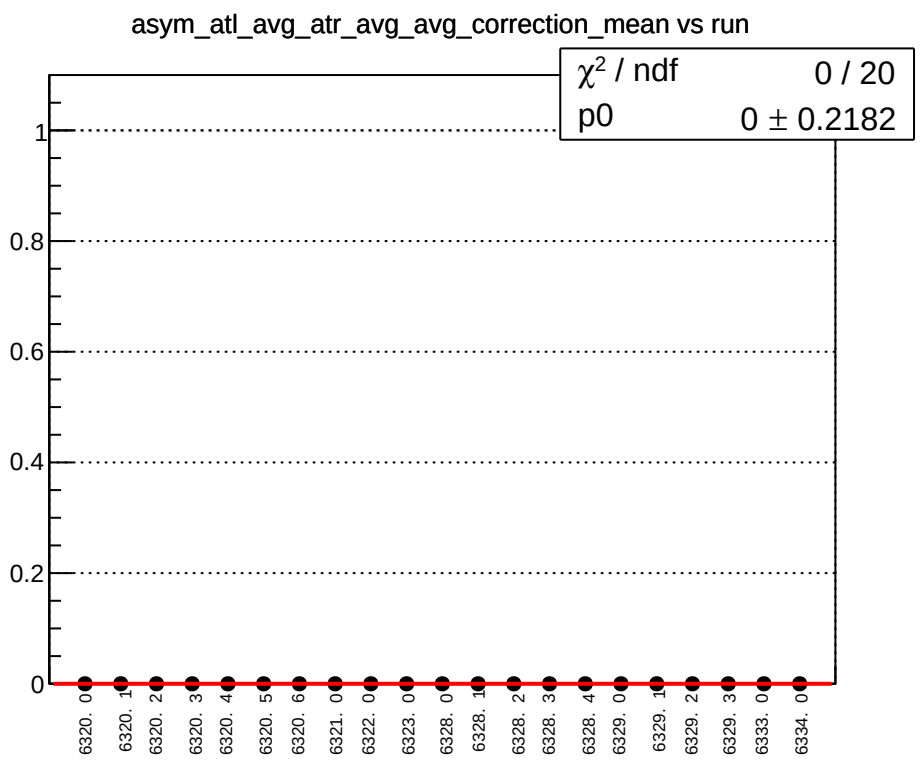

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 27.09 / 20
p0 3655 ± 1.137e+04
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.36
Std Dev 19.46
2
1
0
−1
−2

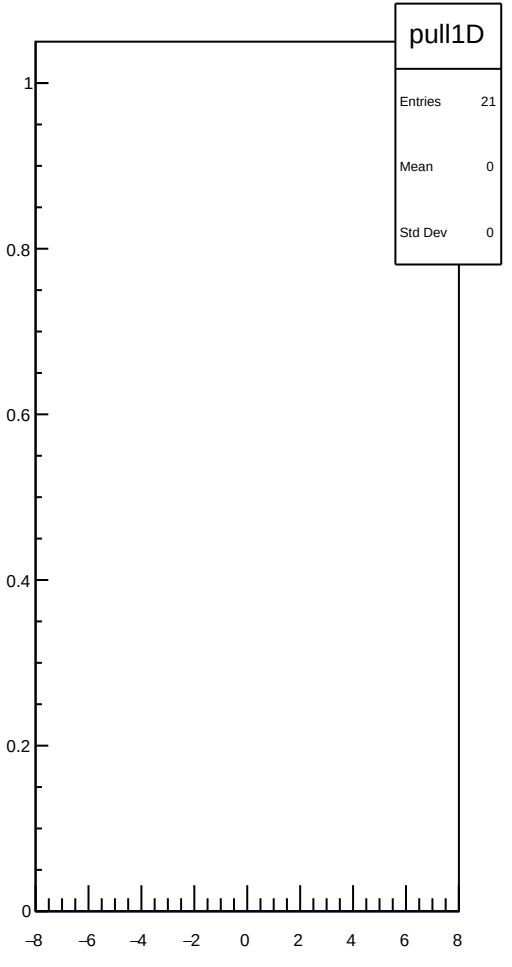

pull1D
Entries 21
Mean −0.09548
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

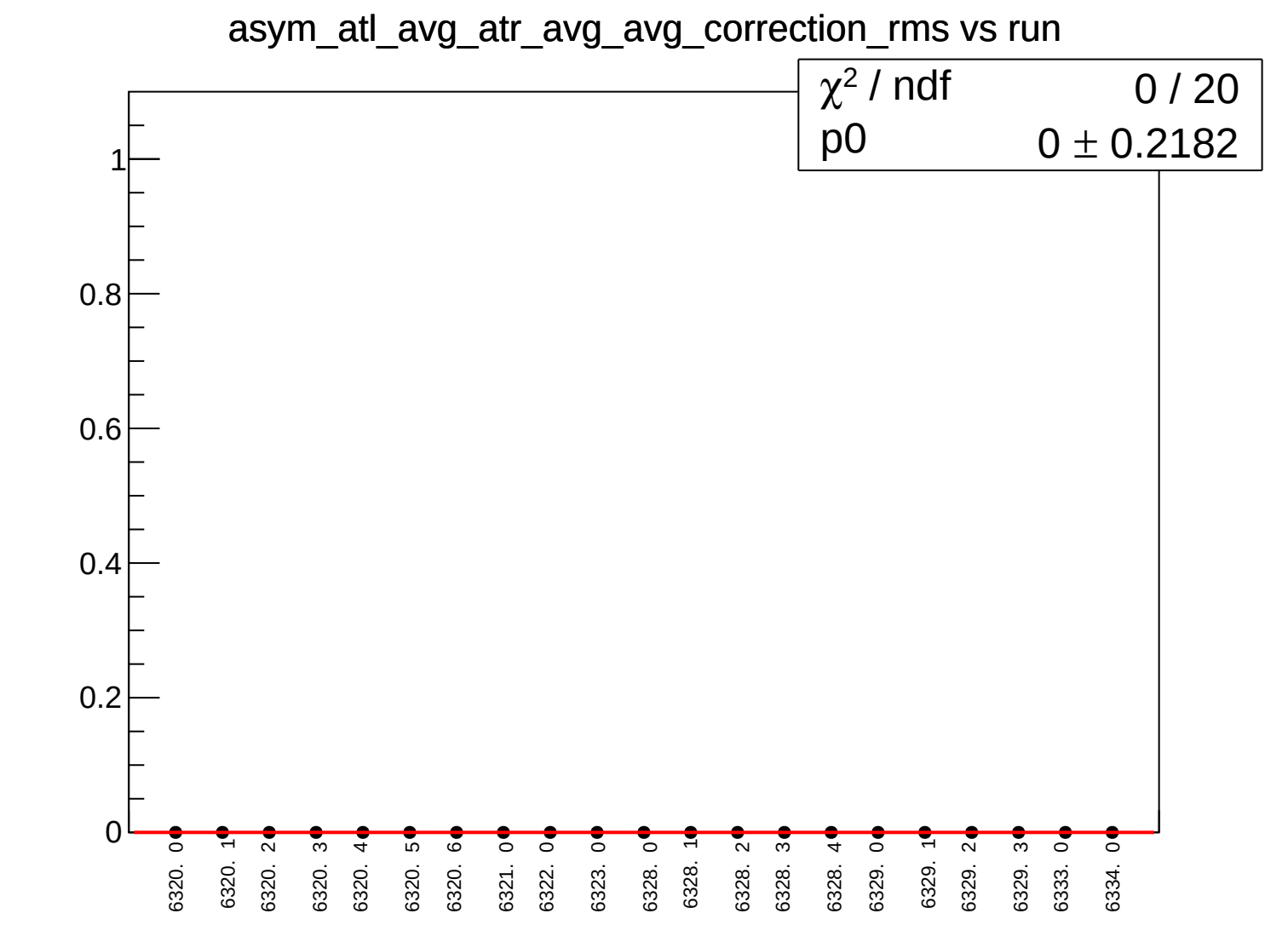

asym_atr1l2_dd_rms vs run
χ² / ndf 7193 / 20
p0 4958 ± 8.04
8000
7500
7000
6500
6000
5500
5000
4500
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

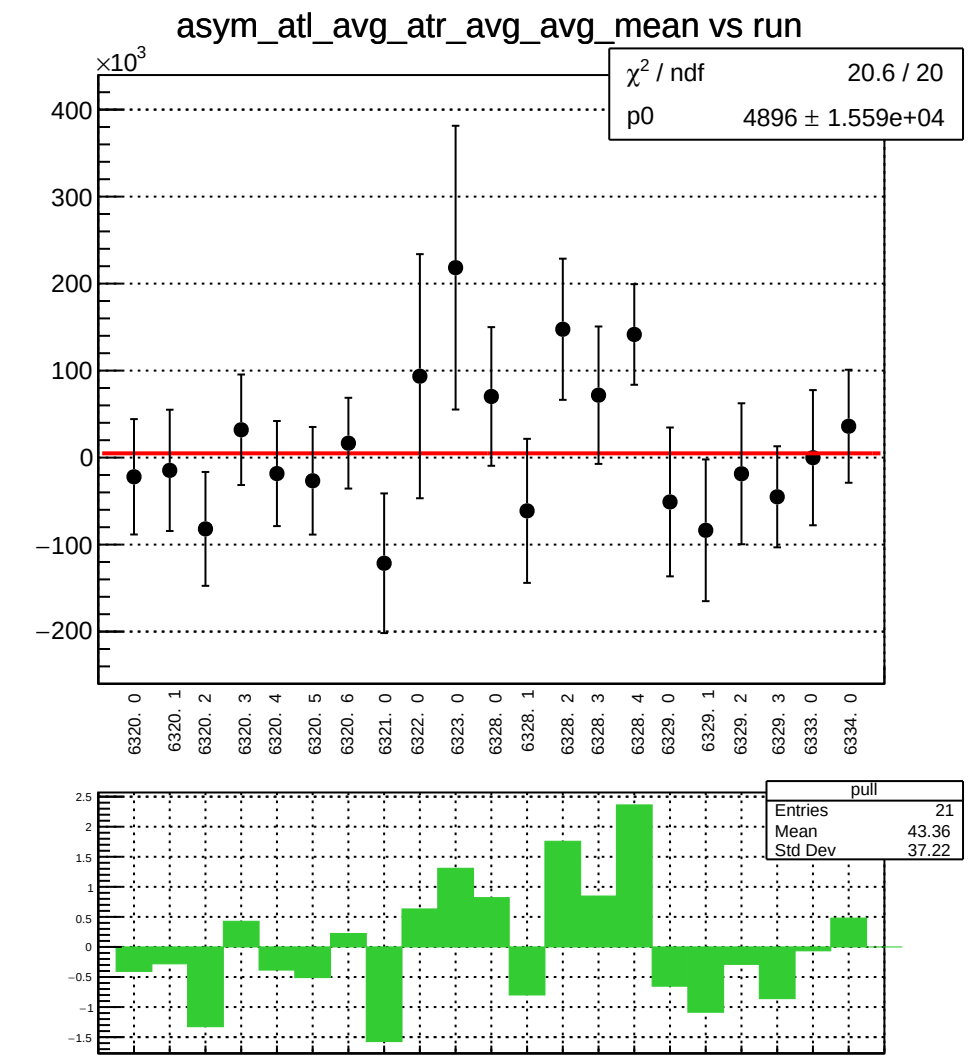

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 20.6 / 20
p0 4896 ± 1.559e+04
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.36
Std Dev 37.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.0298
Std Dev 0.9899
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

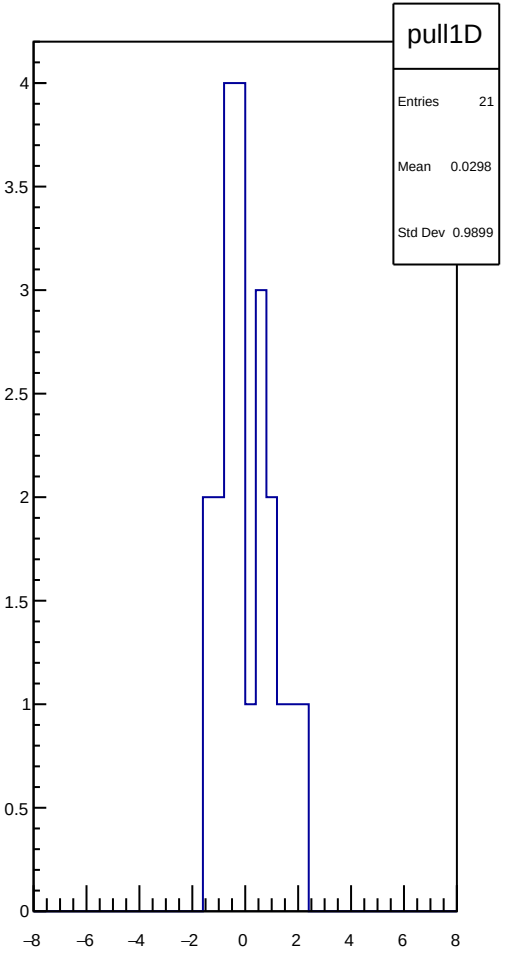

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5223 / 20
p0 6816 ± 11.02
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

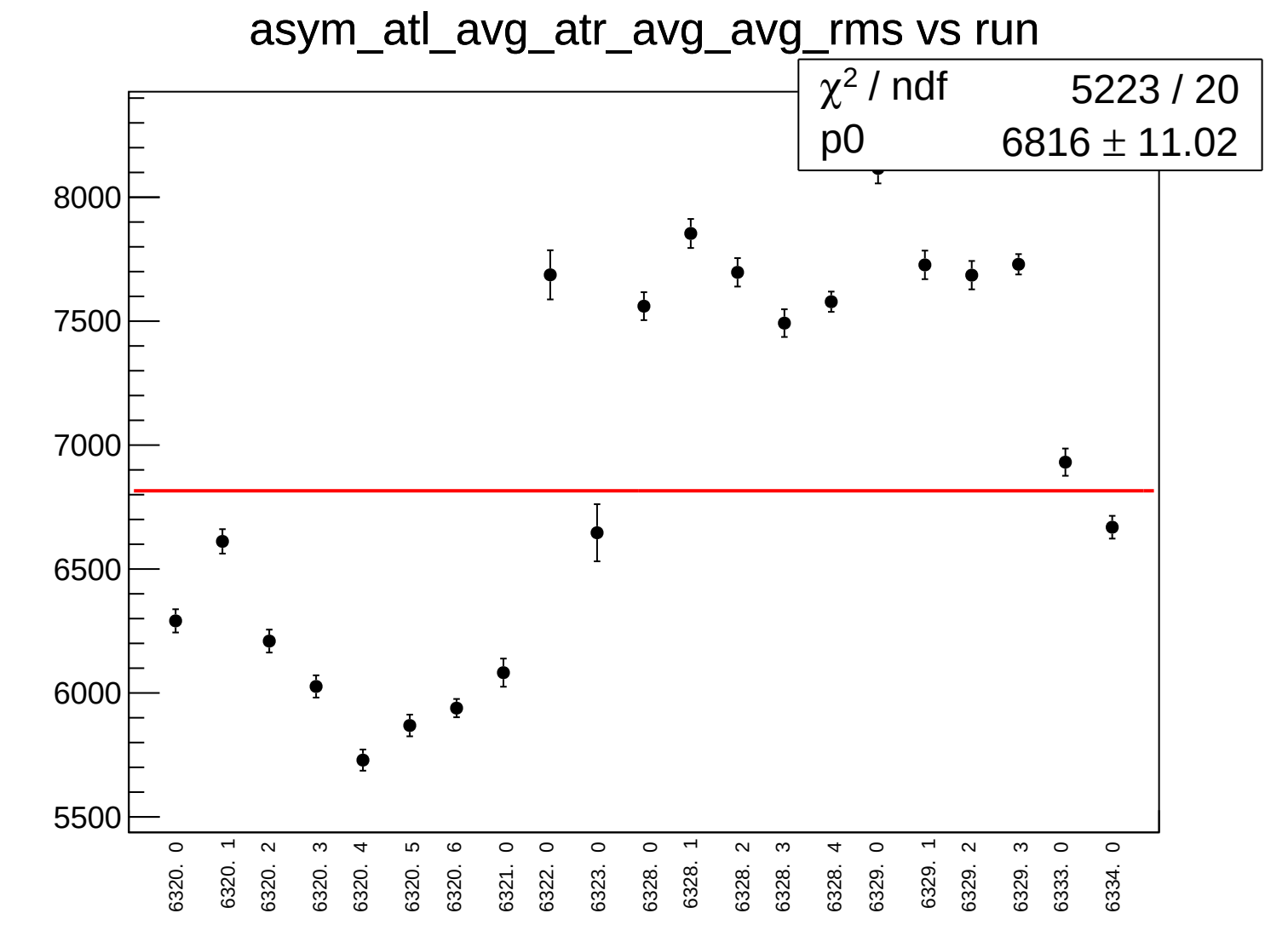

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

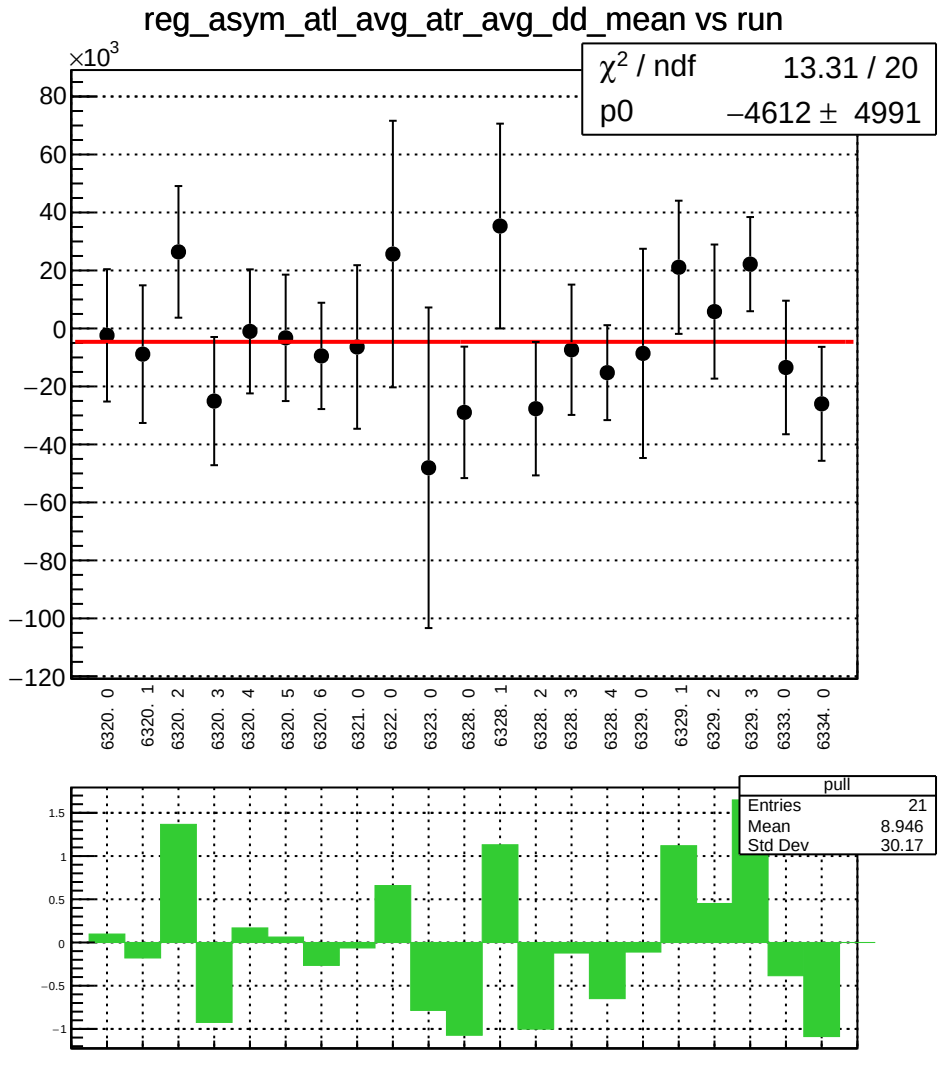

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

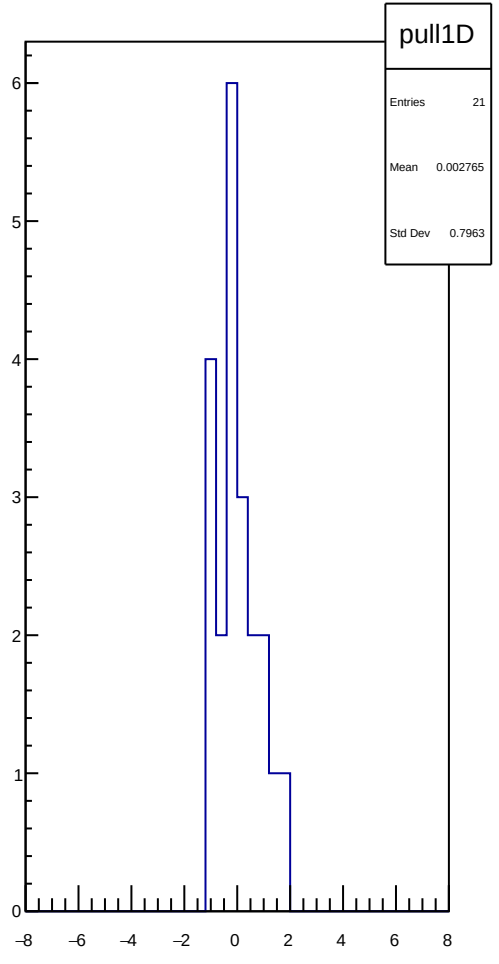

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

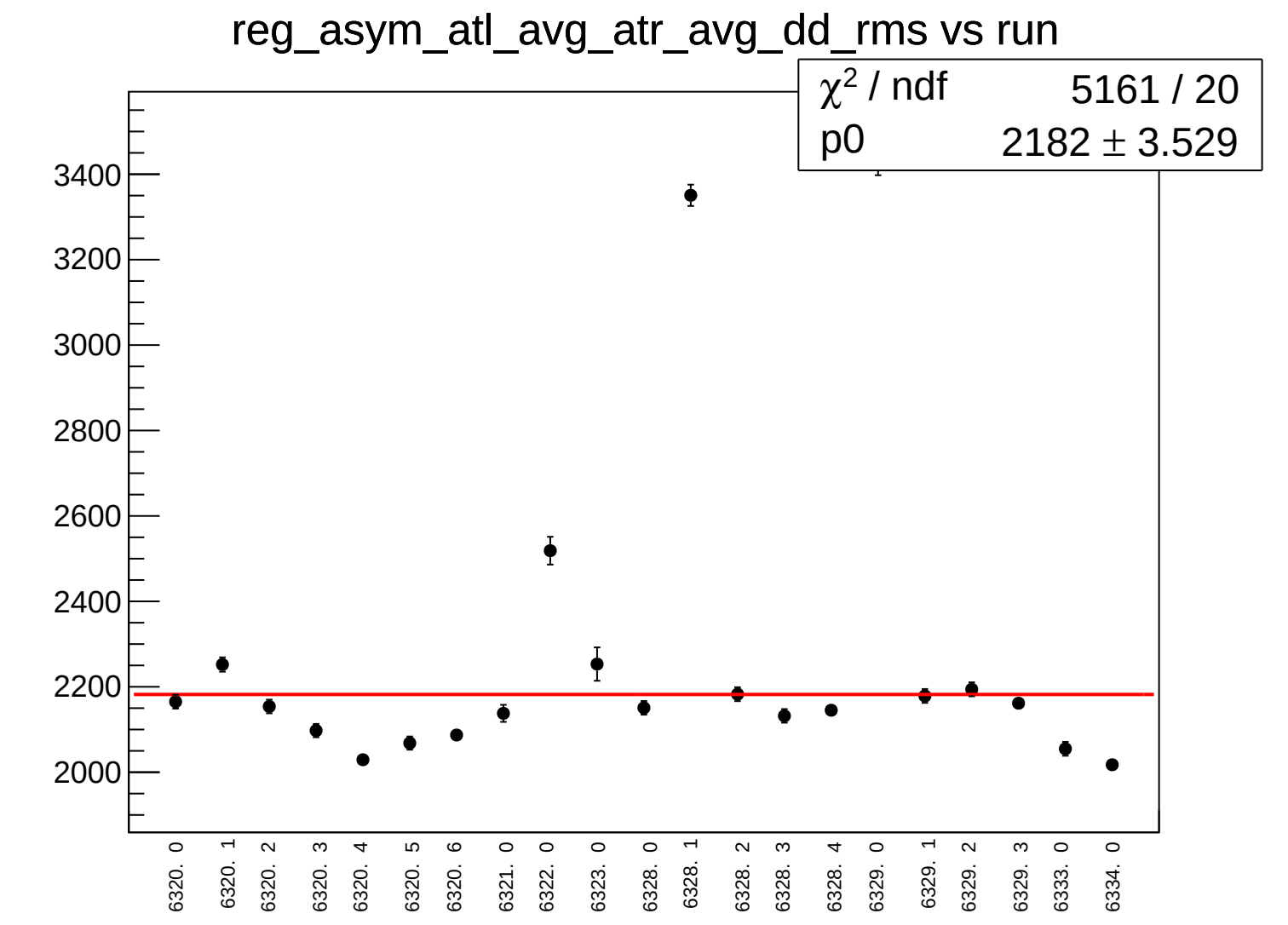

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 20.6 / 20
p0 4896 ± 1.559e+04
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.36
Std Dev 37.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

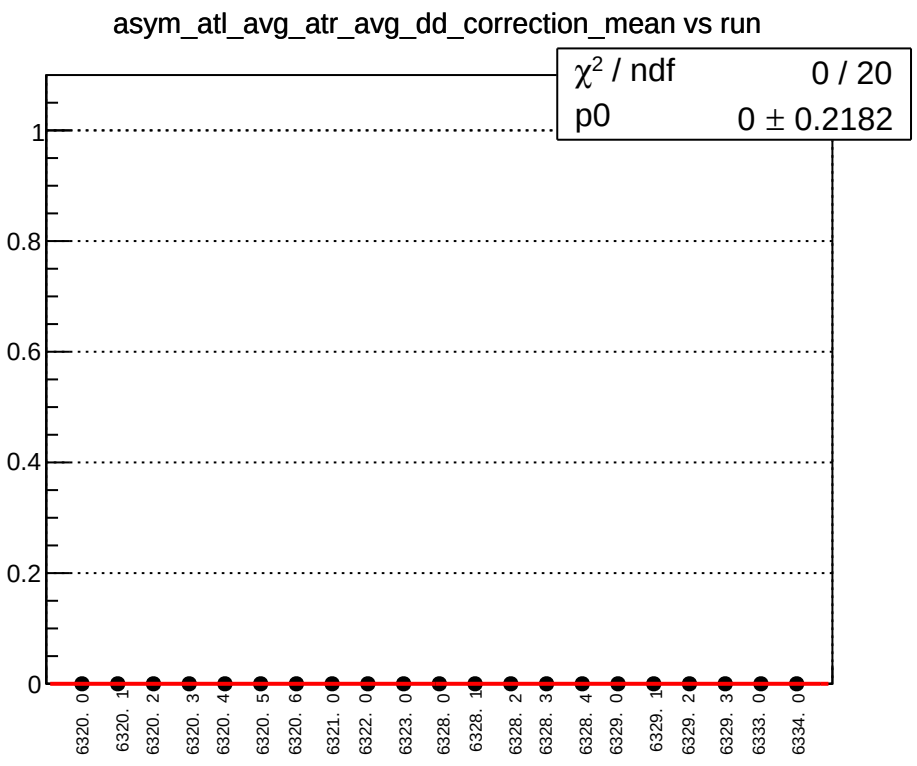

pull1D
Entries 21
Mean 0.0298
Std Dev 0.9899
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

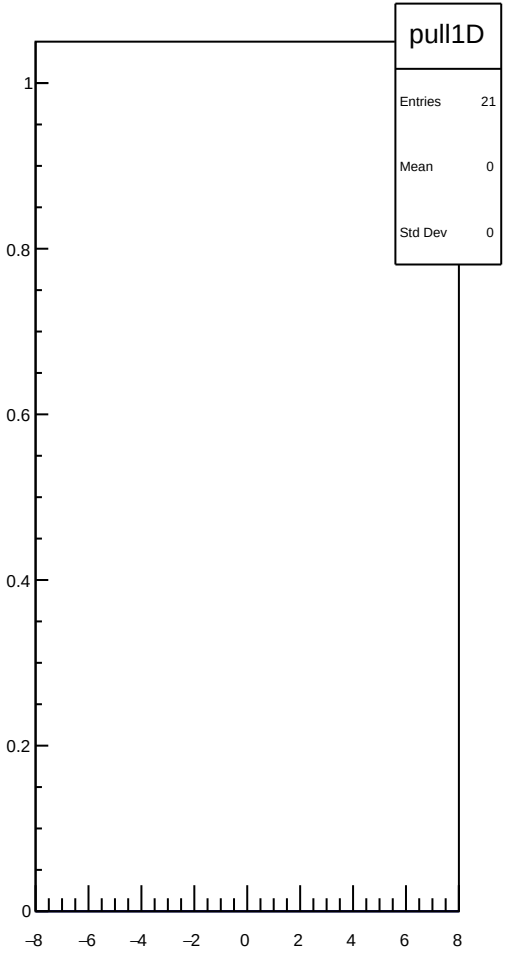

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5223 / 20
p0 6816 ± 11.02
8000
7500
7000
6500
6000
5500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

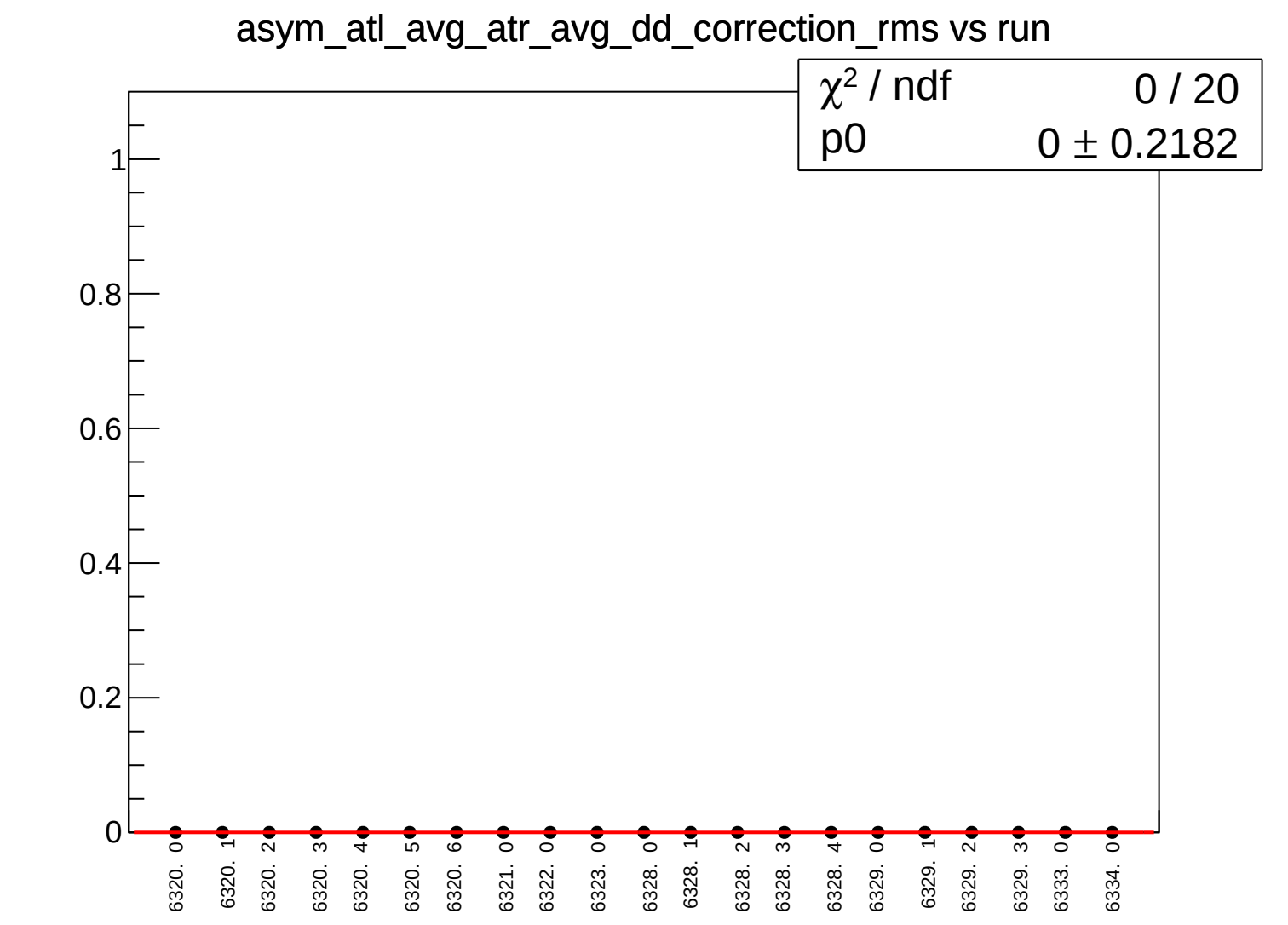

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 13.31 / 20
p0 −4612 ± 4991
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.946
Std Dev 30.17
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 21
Mean 0.002765
Std Dev 0.7963
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 5161 / 20
p0 2182 ± 3.529
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


pull1D
Entries 21
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 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
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6328. 3
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6329. 1
6329. 2
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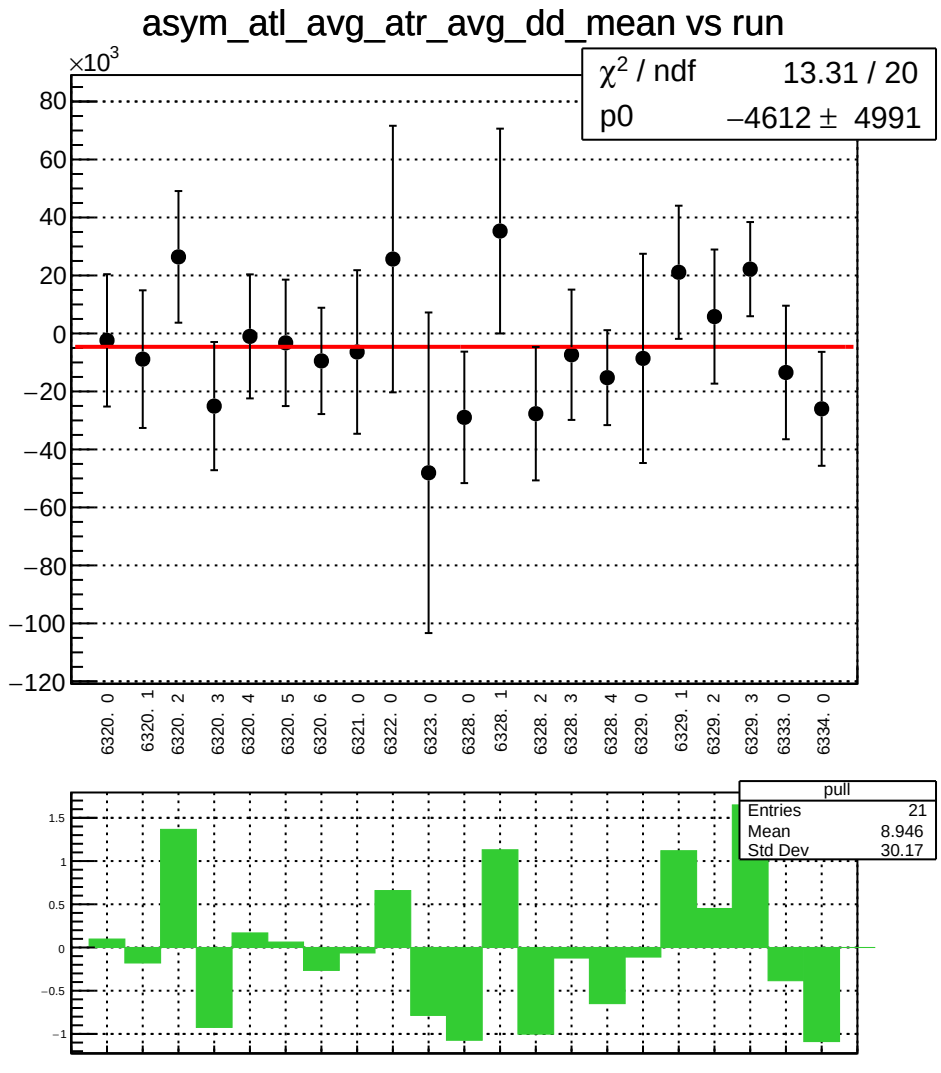
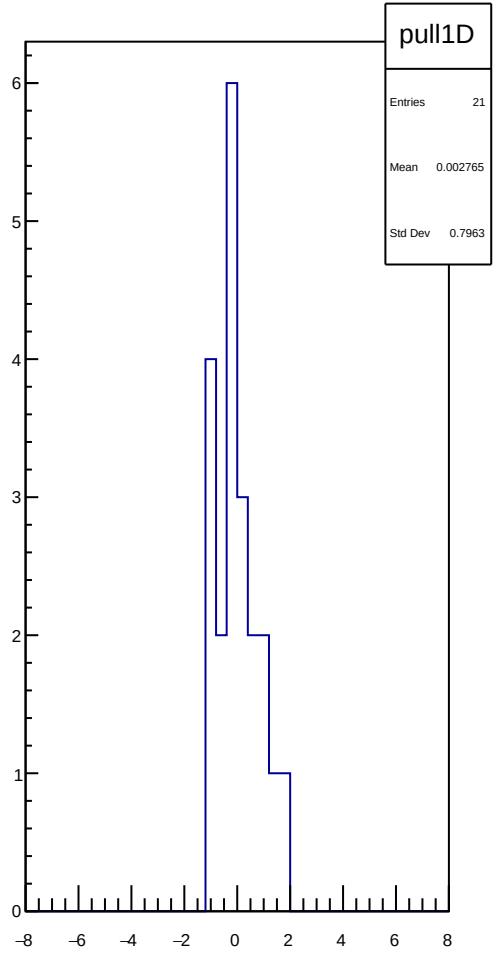
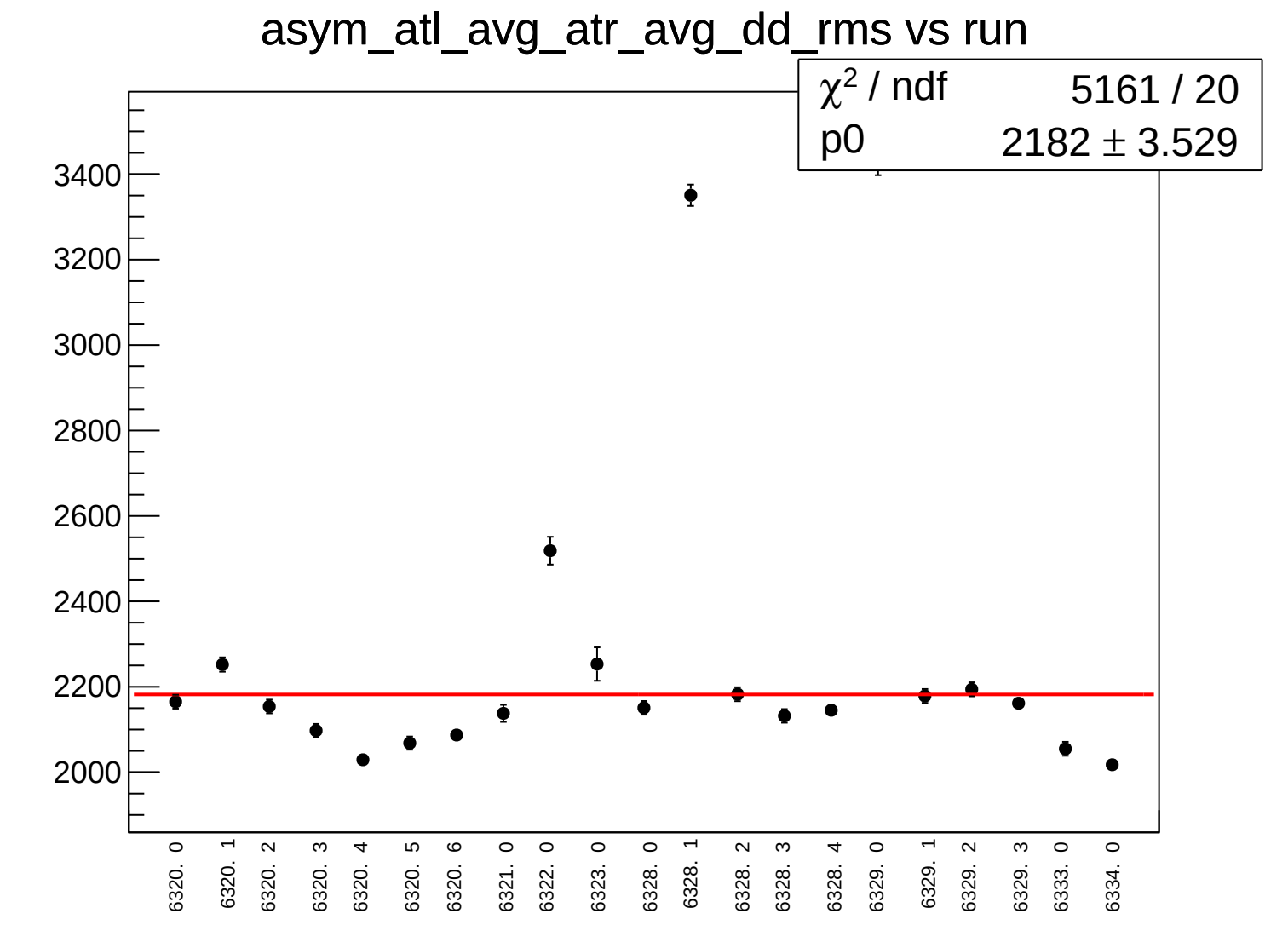
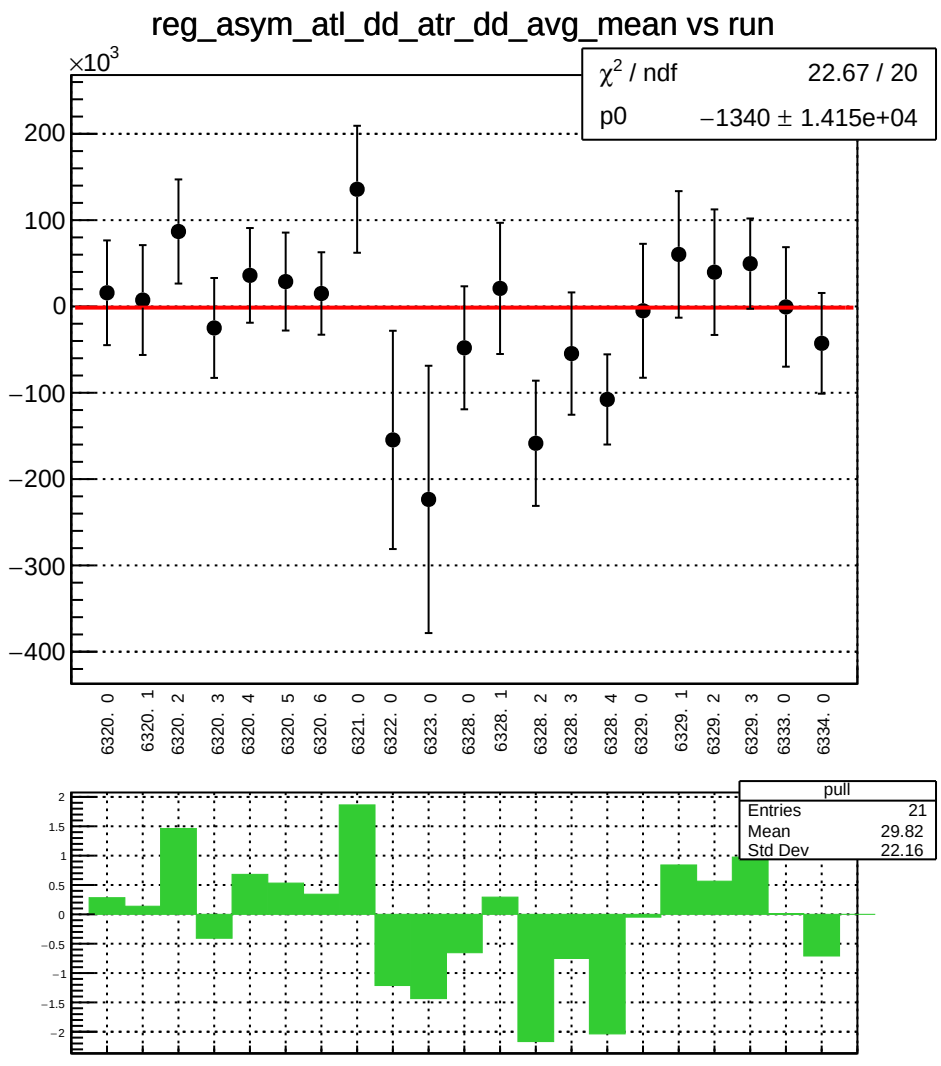
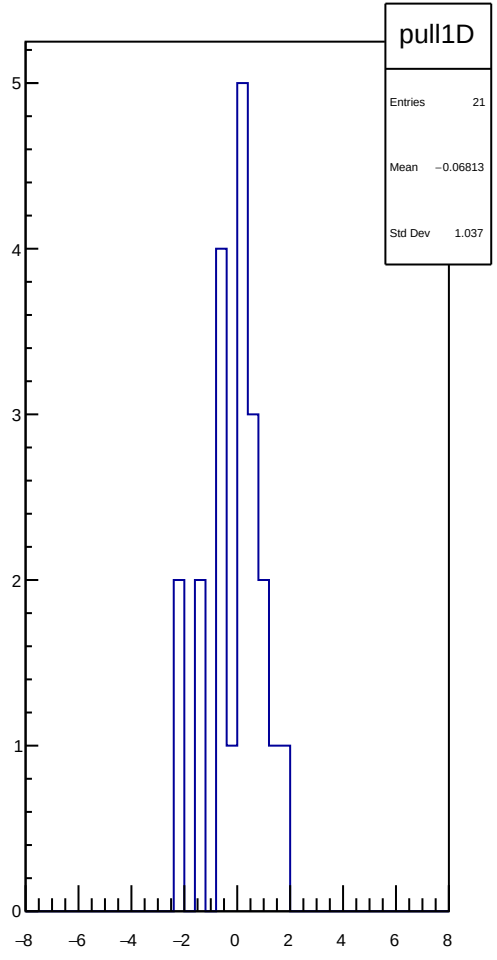
6333. 0
6334. 0

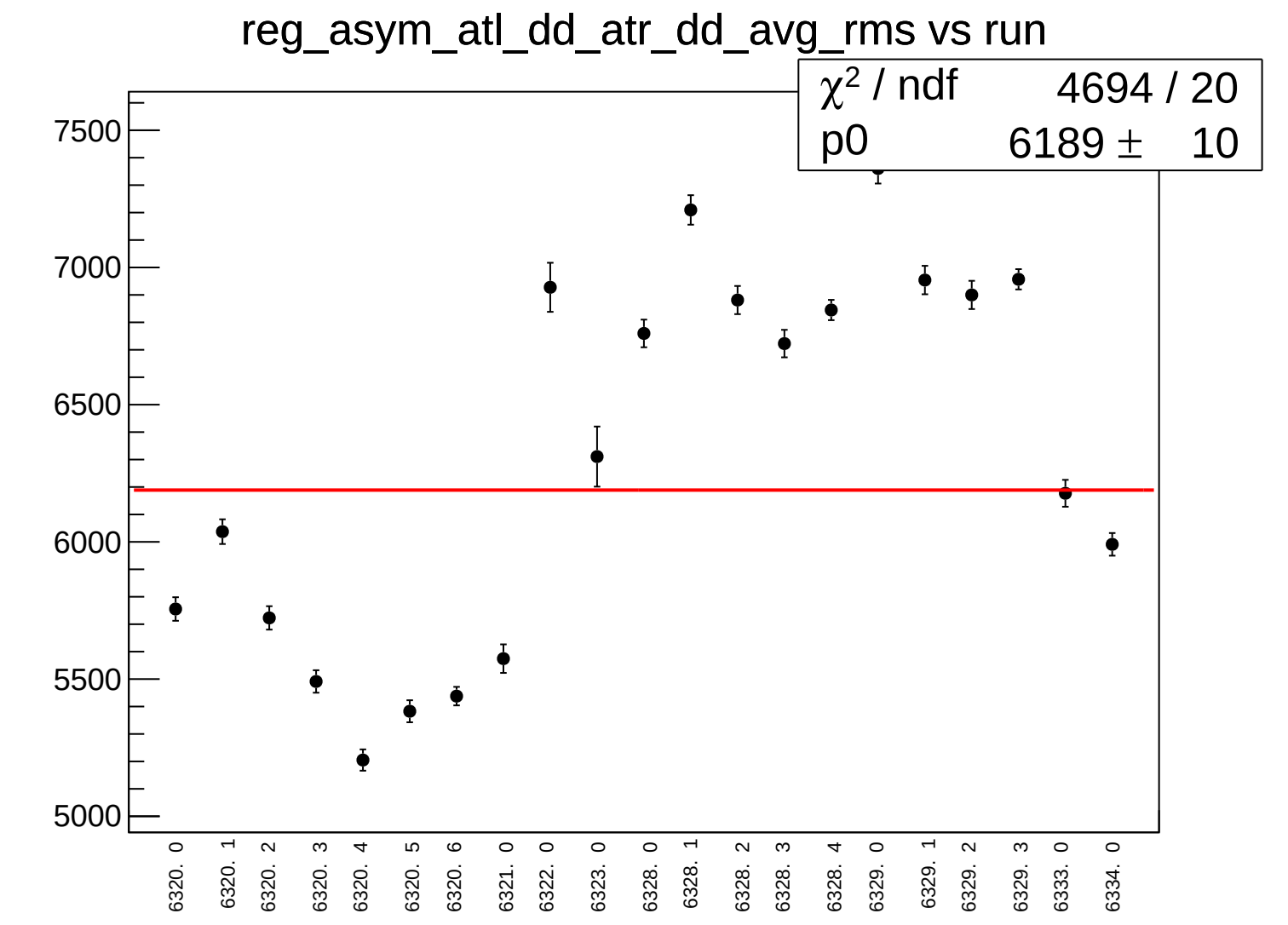

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 13.31 / 20
p0 −4612 ± 4991
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.946
Std Dev 30.17
1.5
1
0.5
0
−0.5
−1

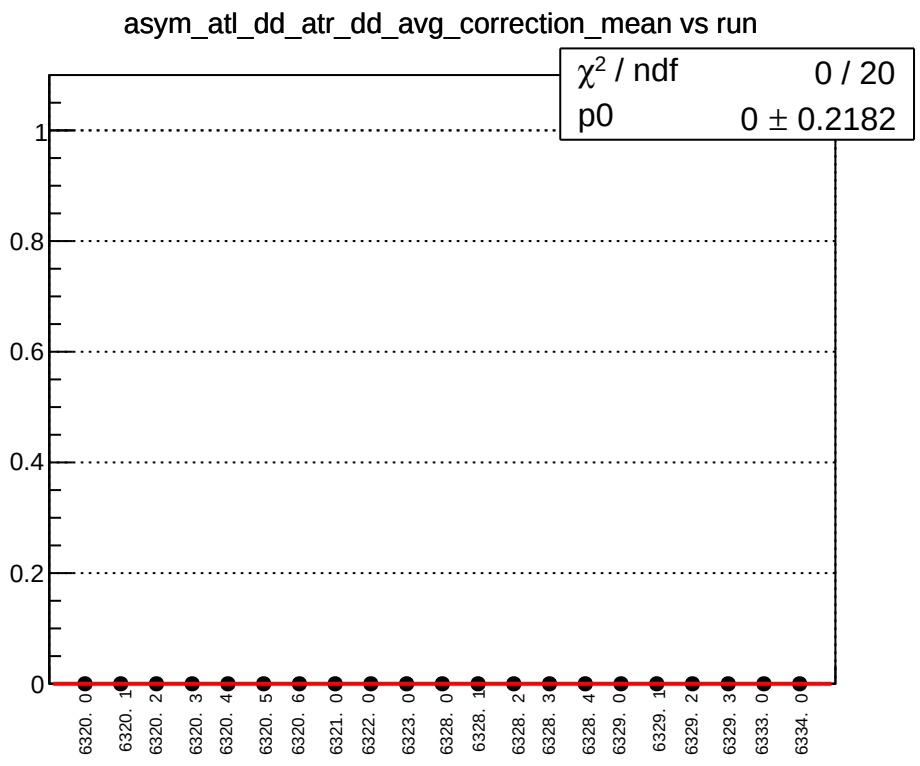

pull1D
Entries 21
Mean 0.002765
Std Dev 0.7963
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

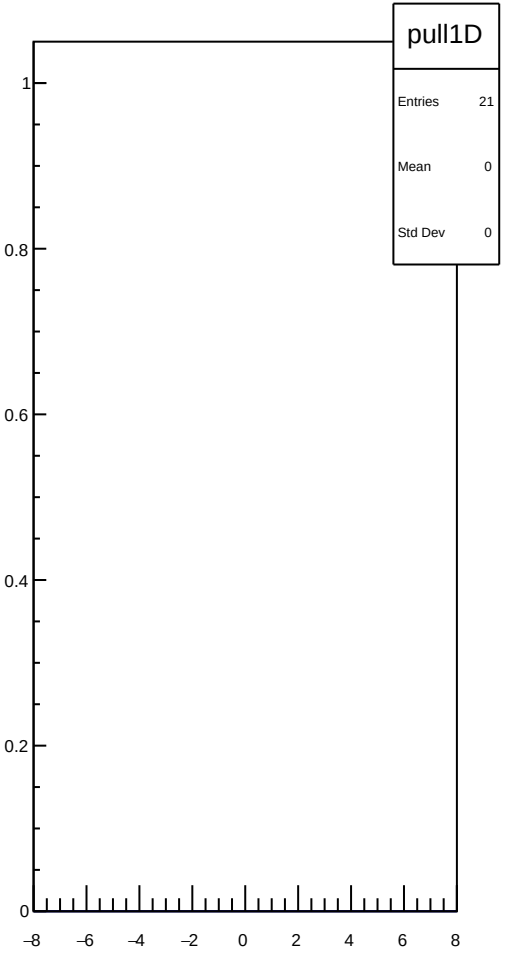

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5161 / 20
p0 2182 ± 3.529
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 22.67 / 20
p0 −1340 ± 1.415e+04
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.82
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 21
Mean −0.06813
Std Dev 1.037
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 4694 / 20
p0 6189 ± 10
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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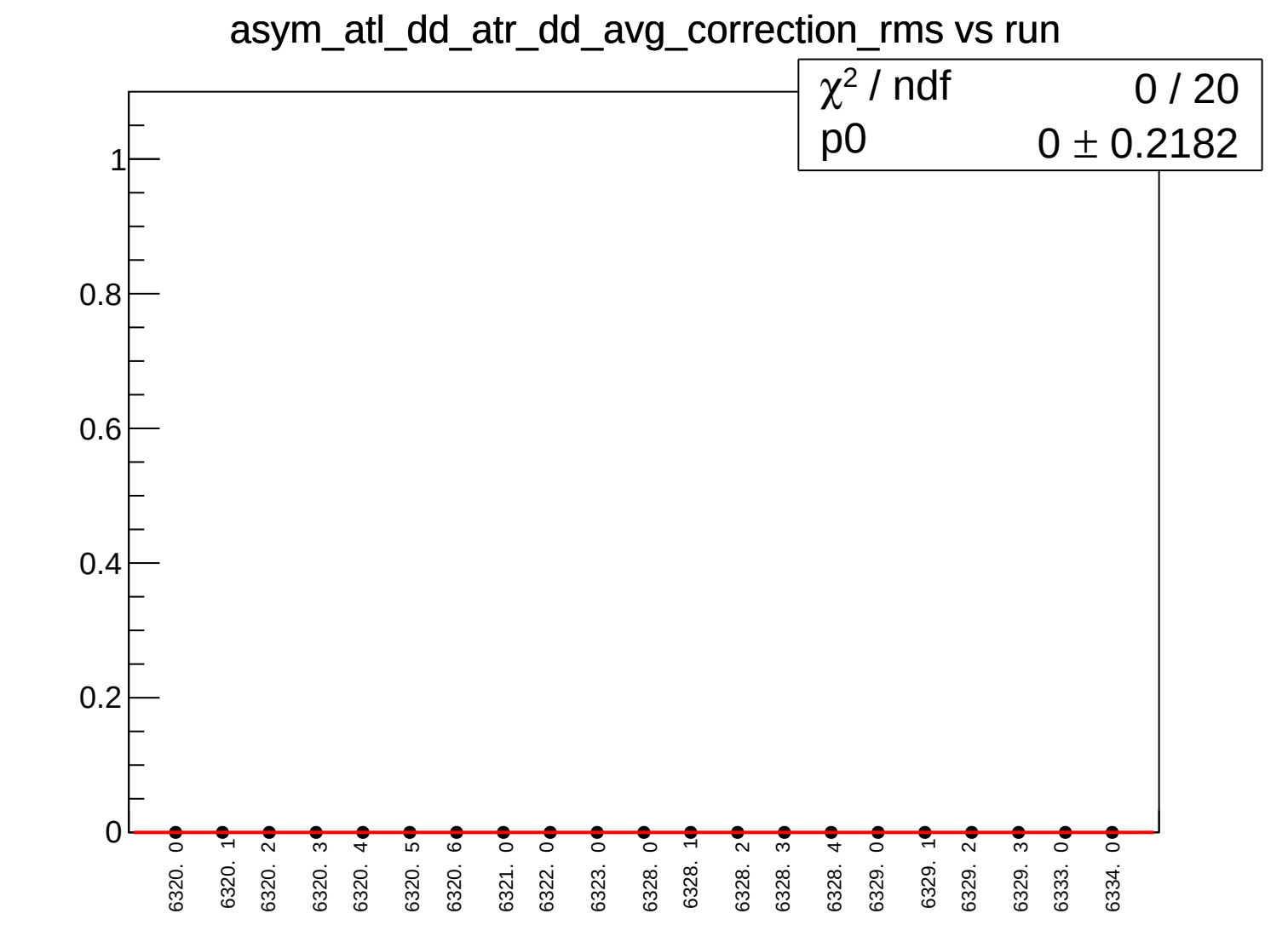
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
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6328. 3
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6329. 1
6329. 2
6329. 3
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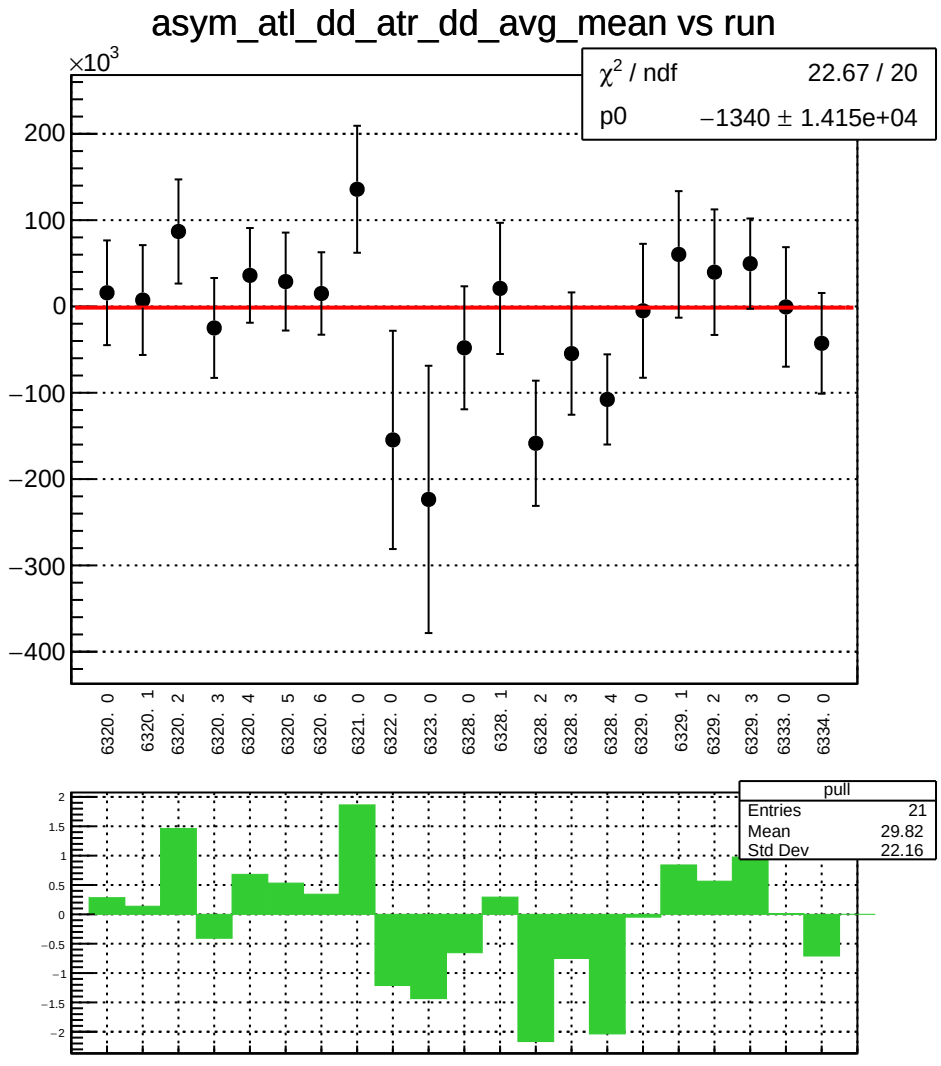
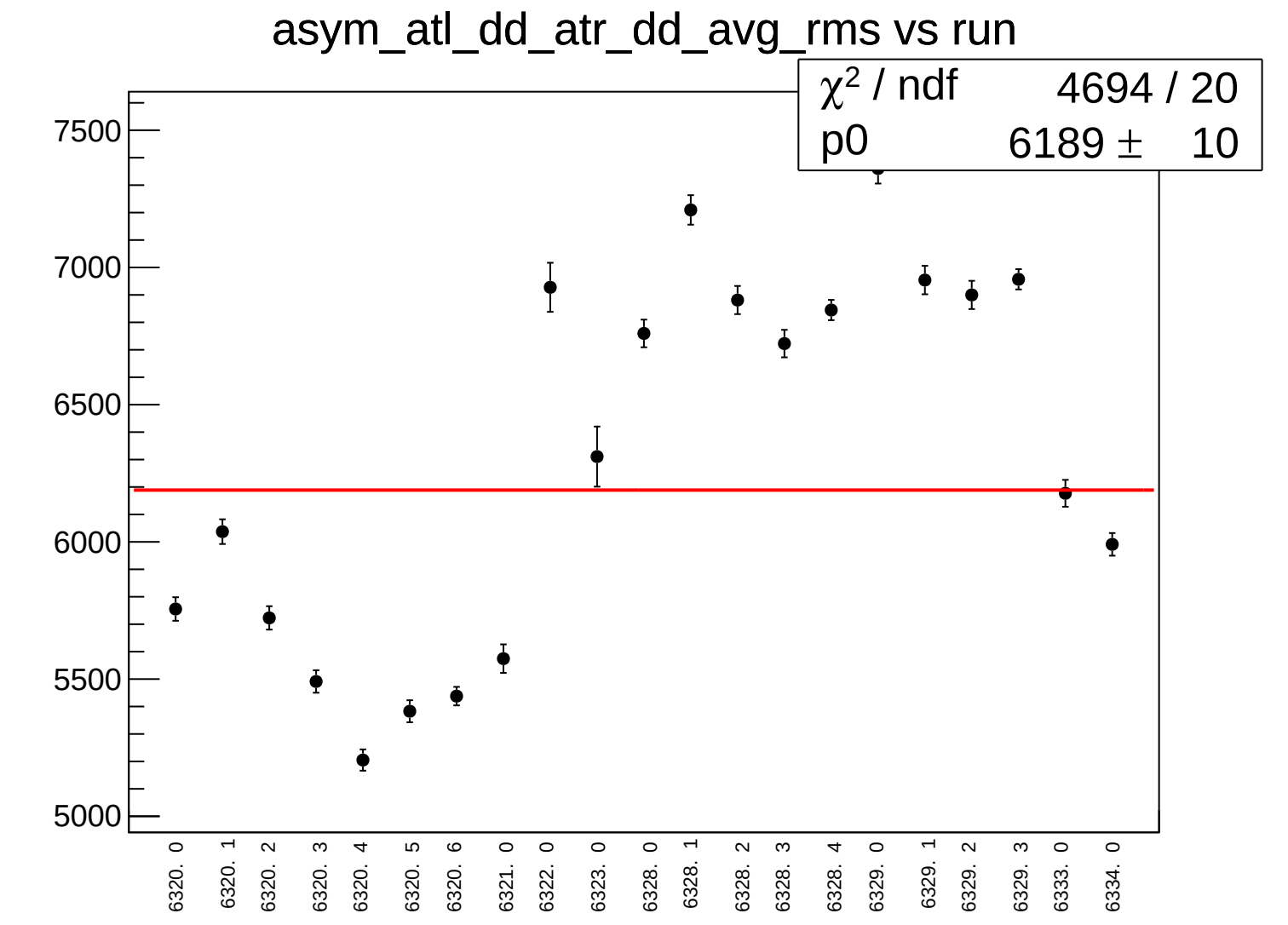
6334. 0


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 22.67 / 20
p0 −1340 ± 1.415e+04
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.82
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.06813
Std Dev 1.037
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 4694 / 20
p0 6189 ± 10
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
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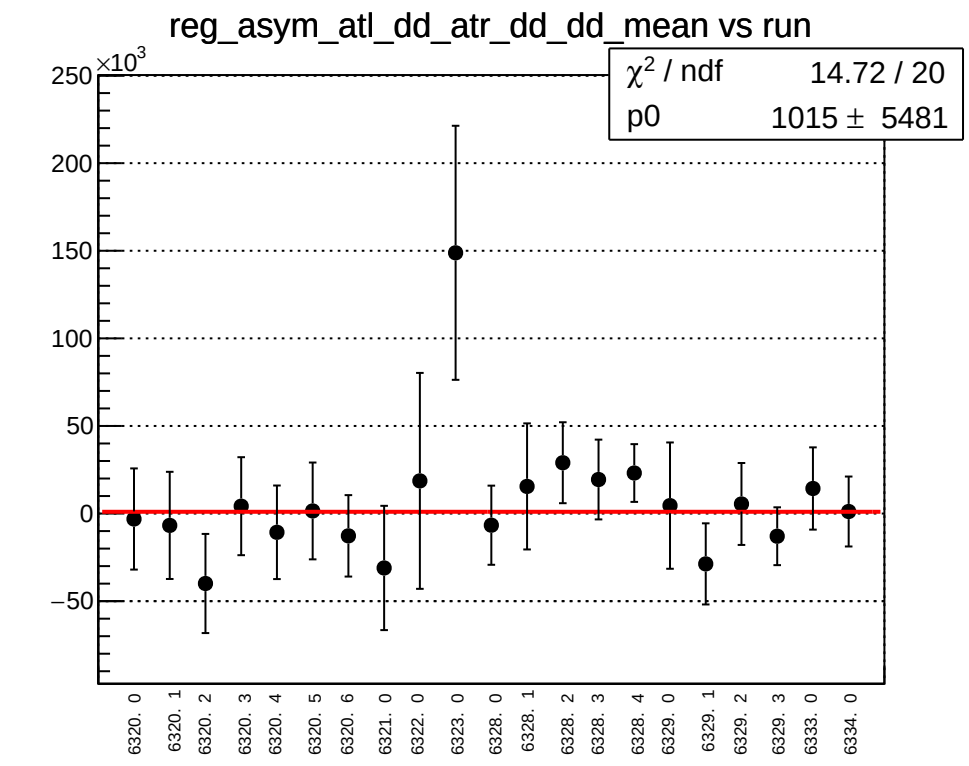
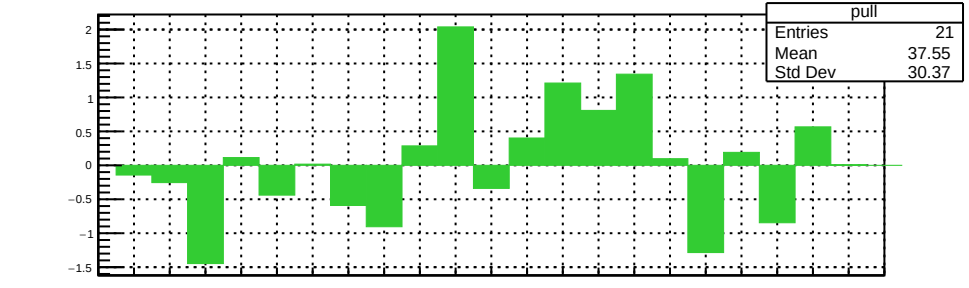
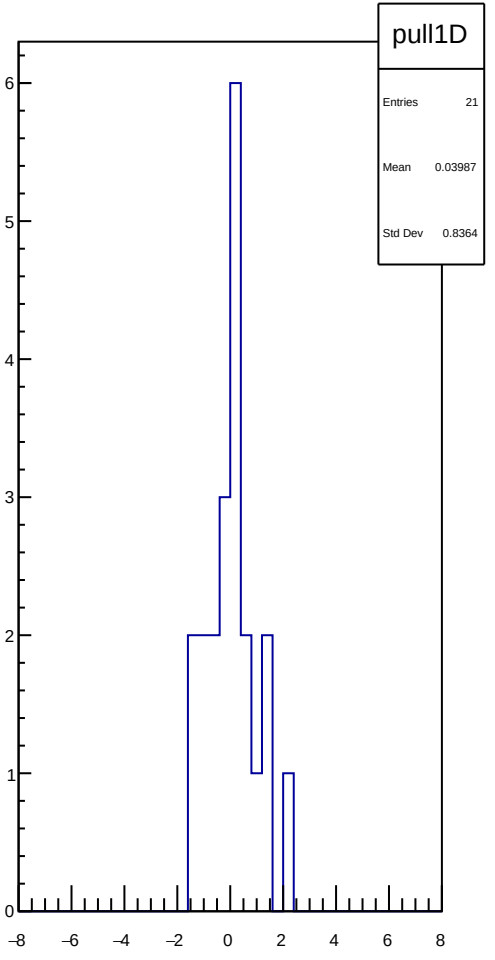
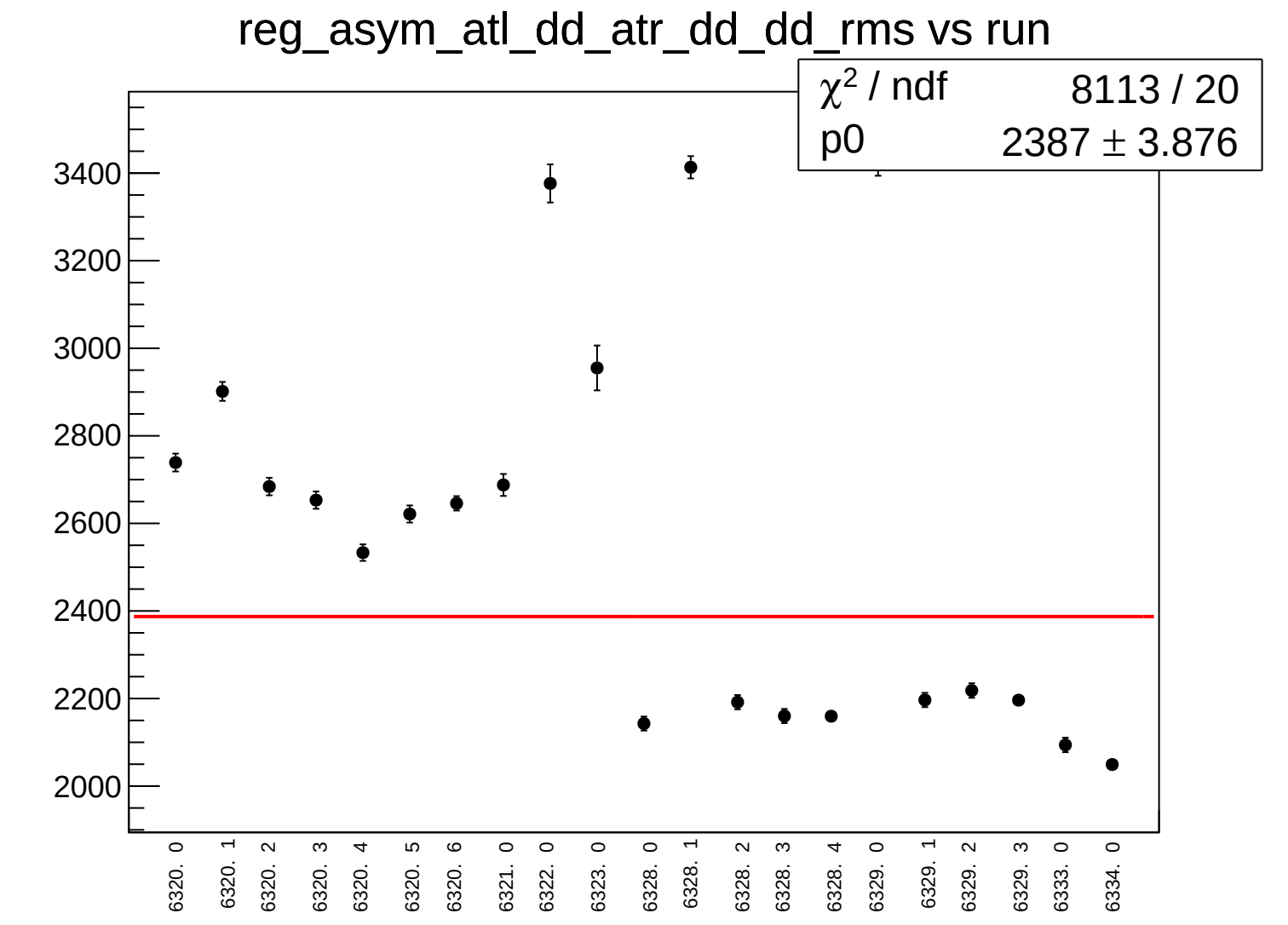
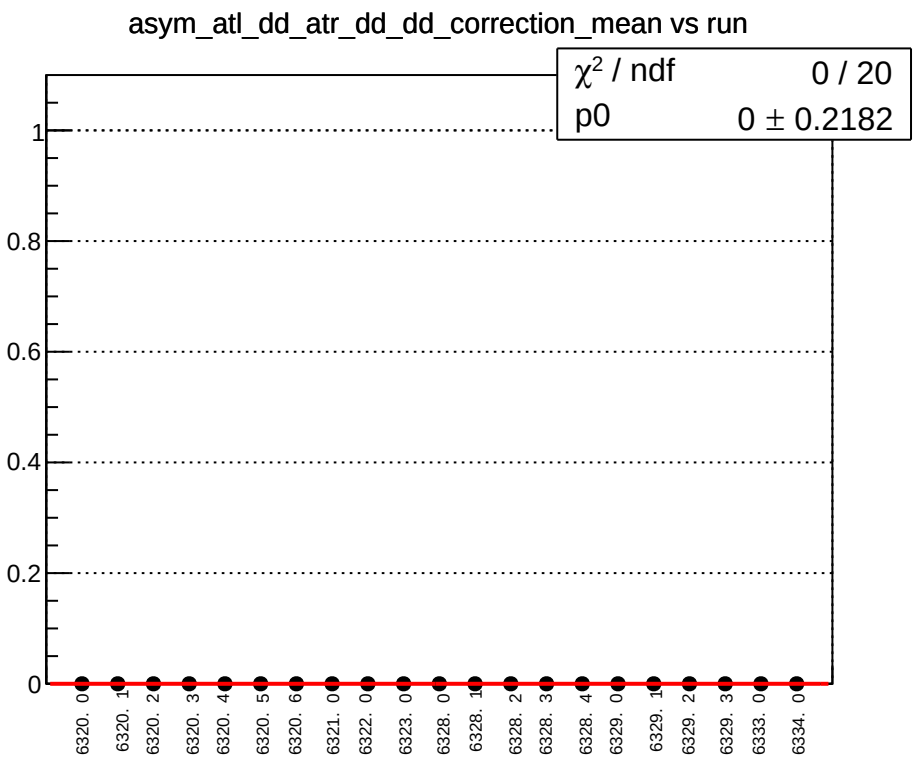
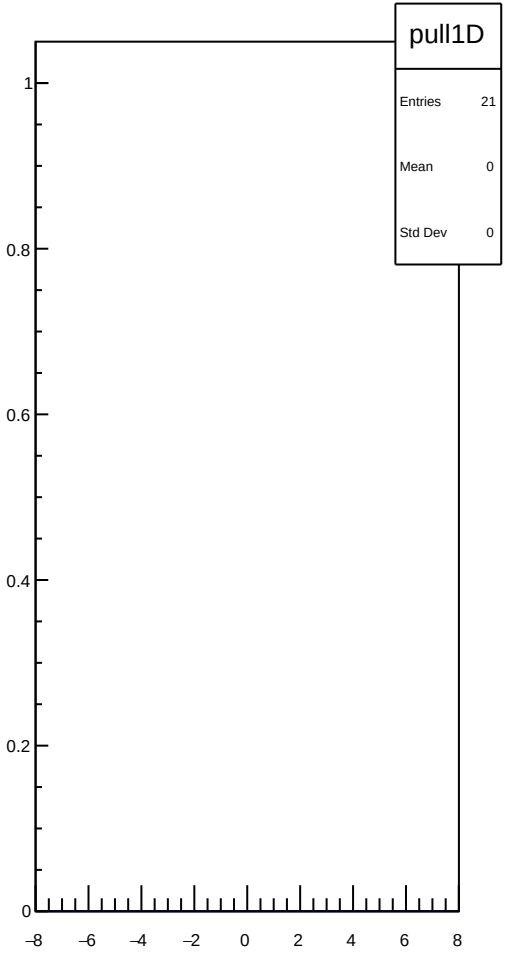

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 14.72 / 20
p0 1015 ± 5481
×10³
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

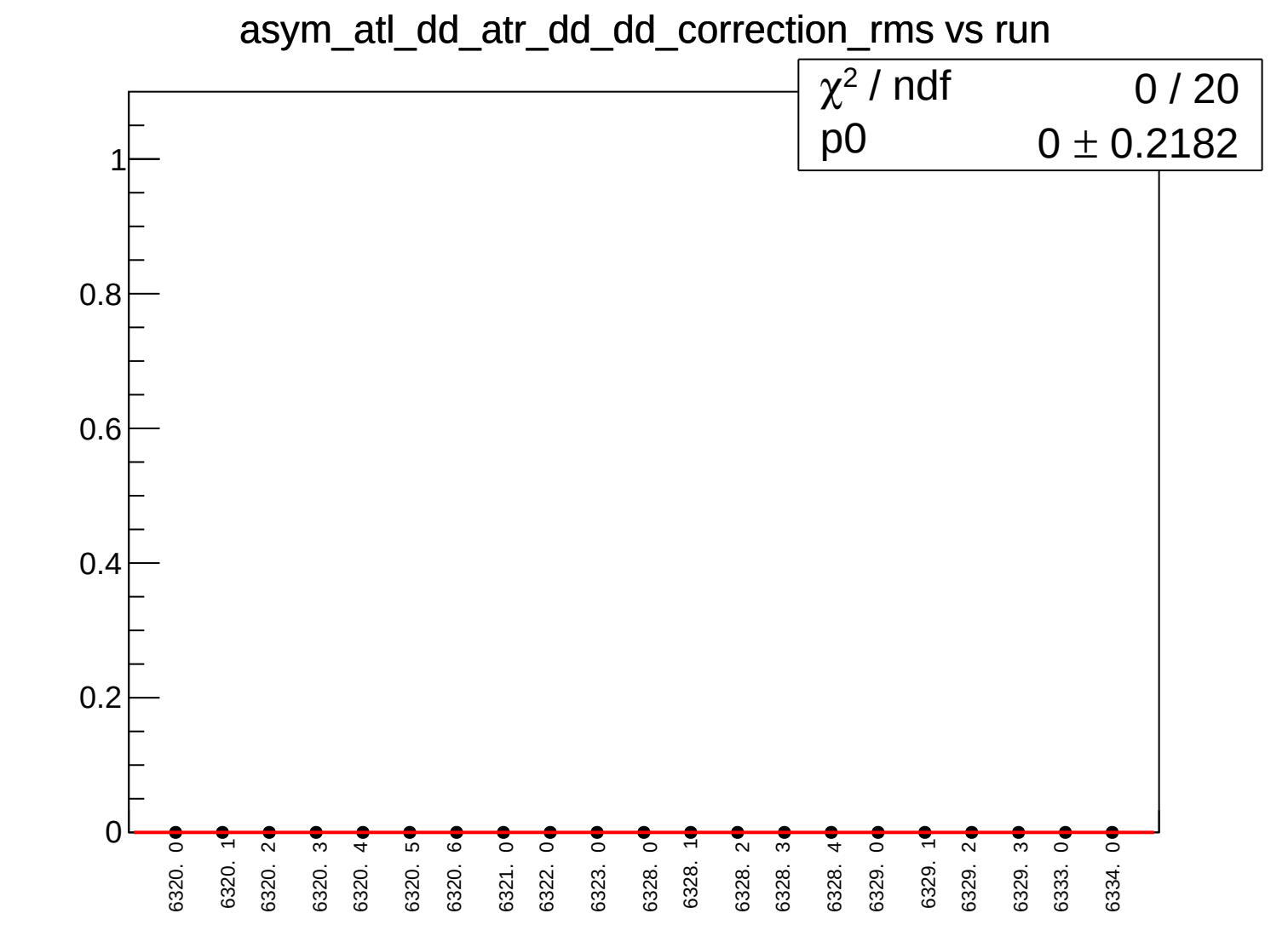

pull
Entries 21
Mean 37.55
Std Dev 30.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

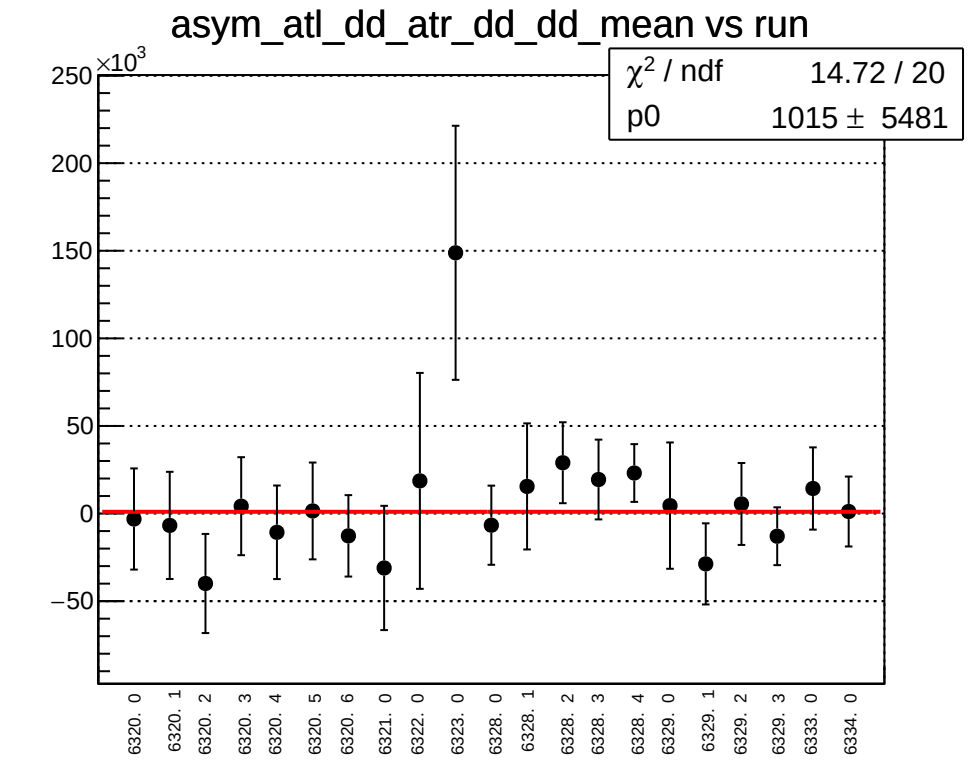

pull1D
Entries 21
Mean 0.03987
Std Dev 0.8364
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

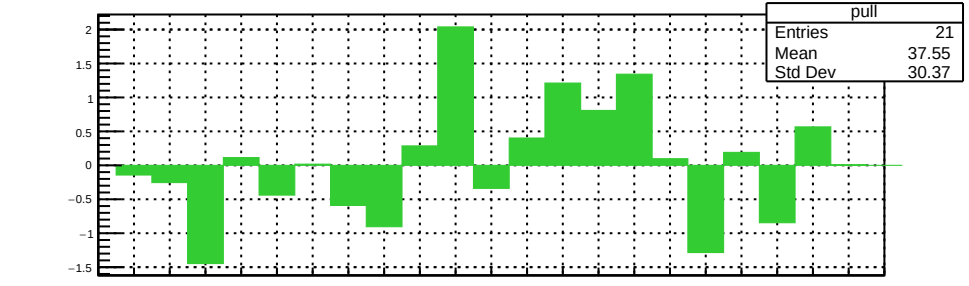

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8113 / 20
p0 2387 ± 3.876
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

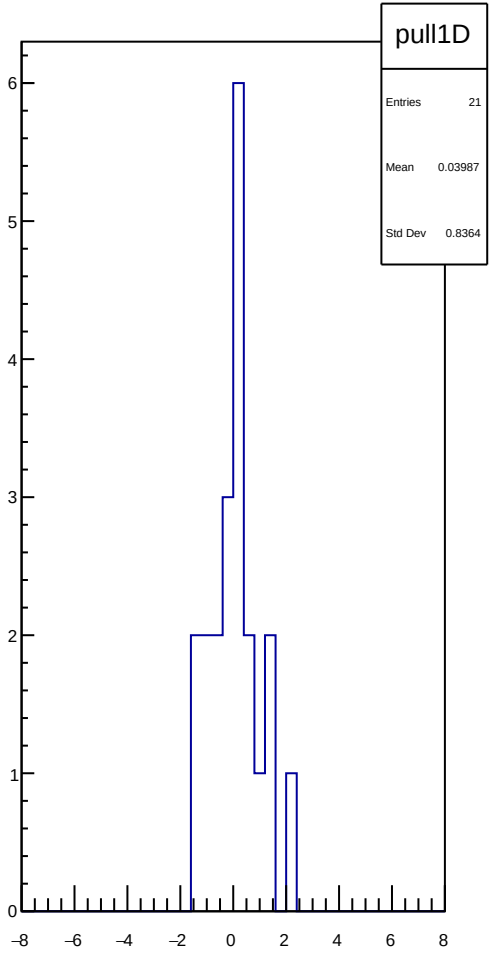

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

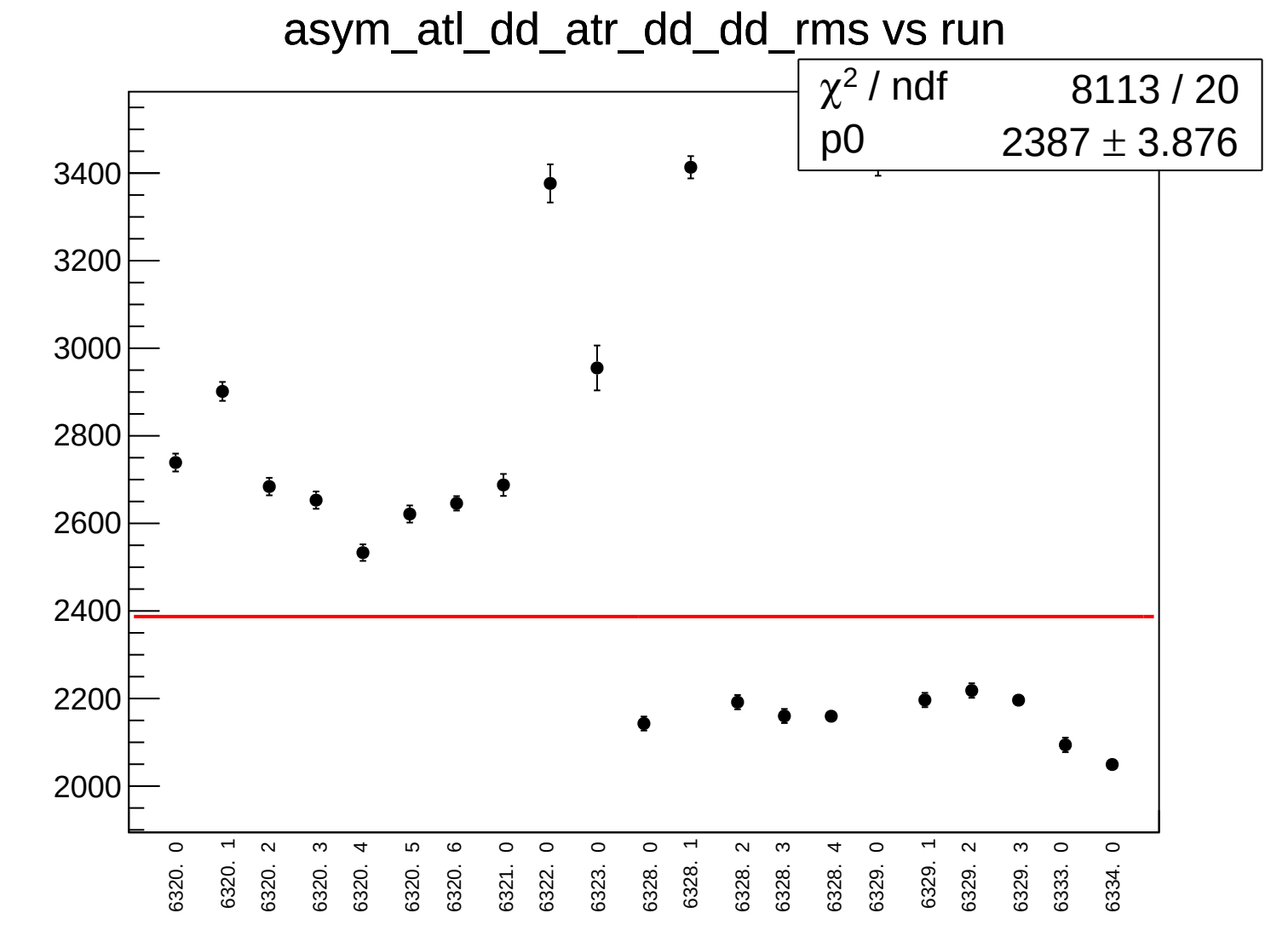

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

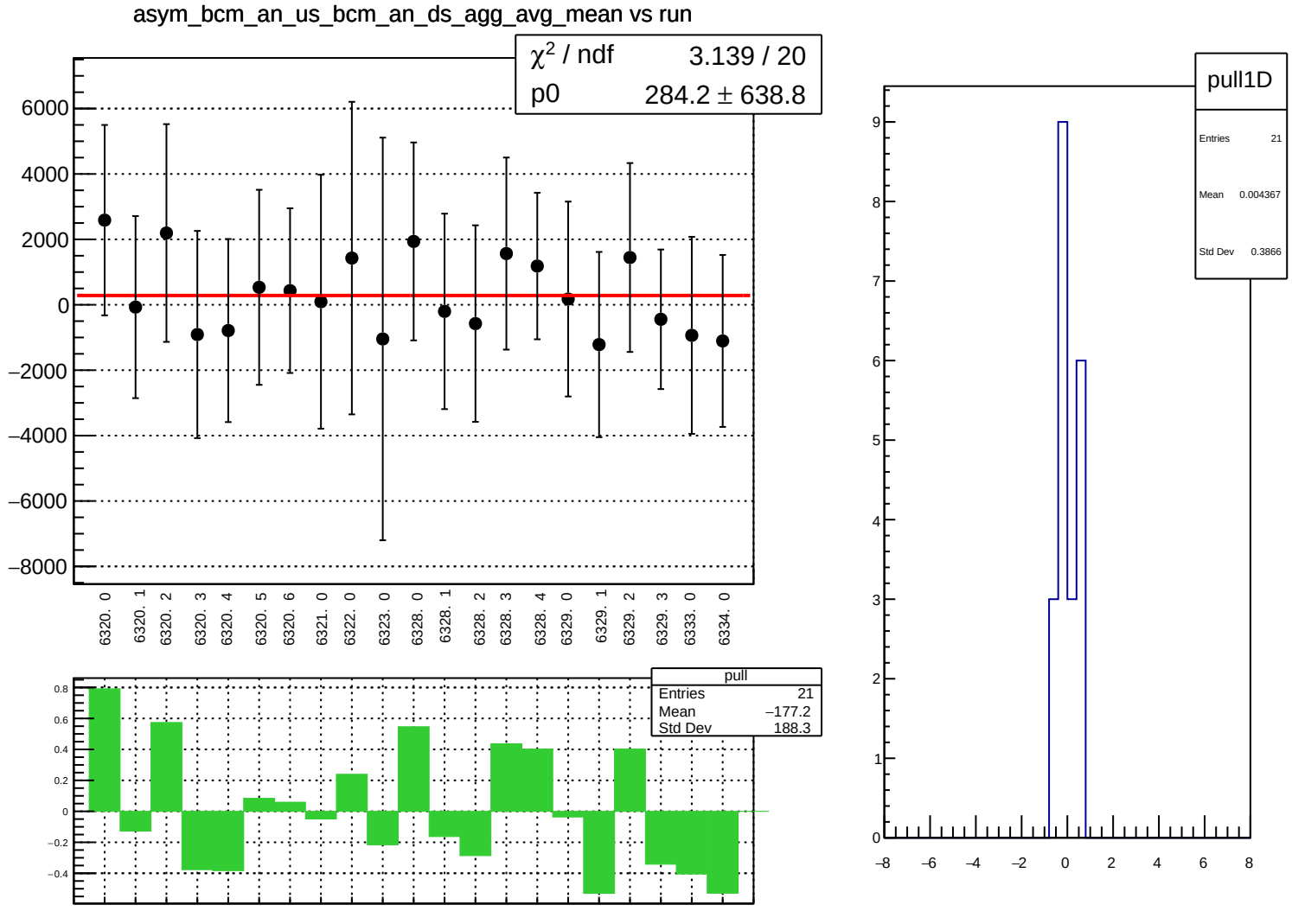

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 20
p0 0 ± 0.2182
1
0.8
0.6
0.4
0.2
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

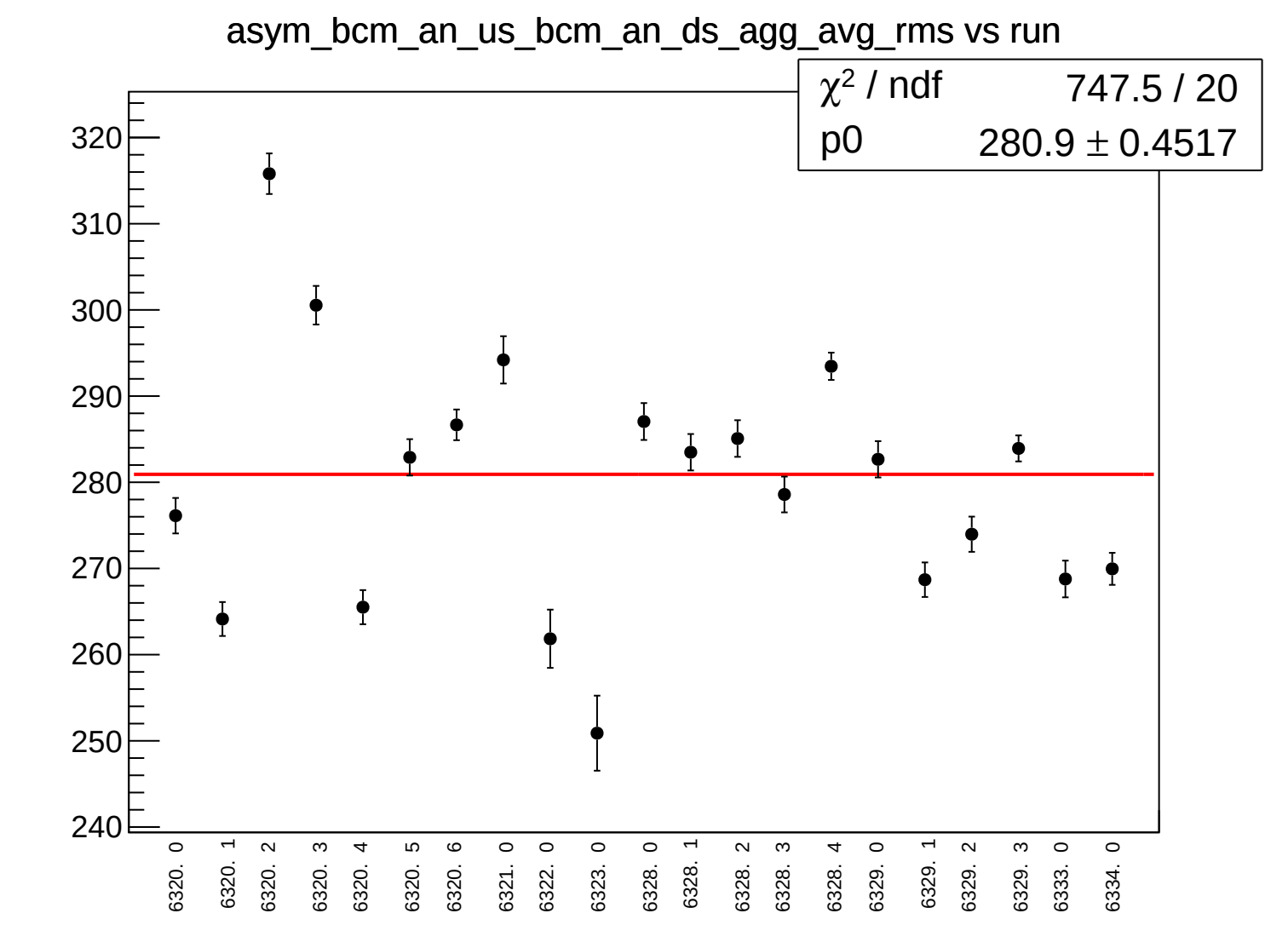

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 14.72 / 20
p0 1015 ± 5481
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

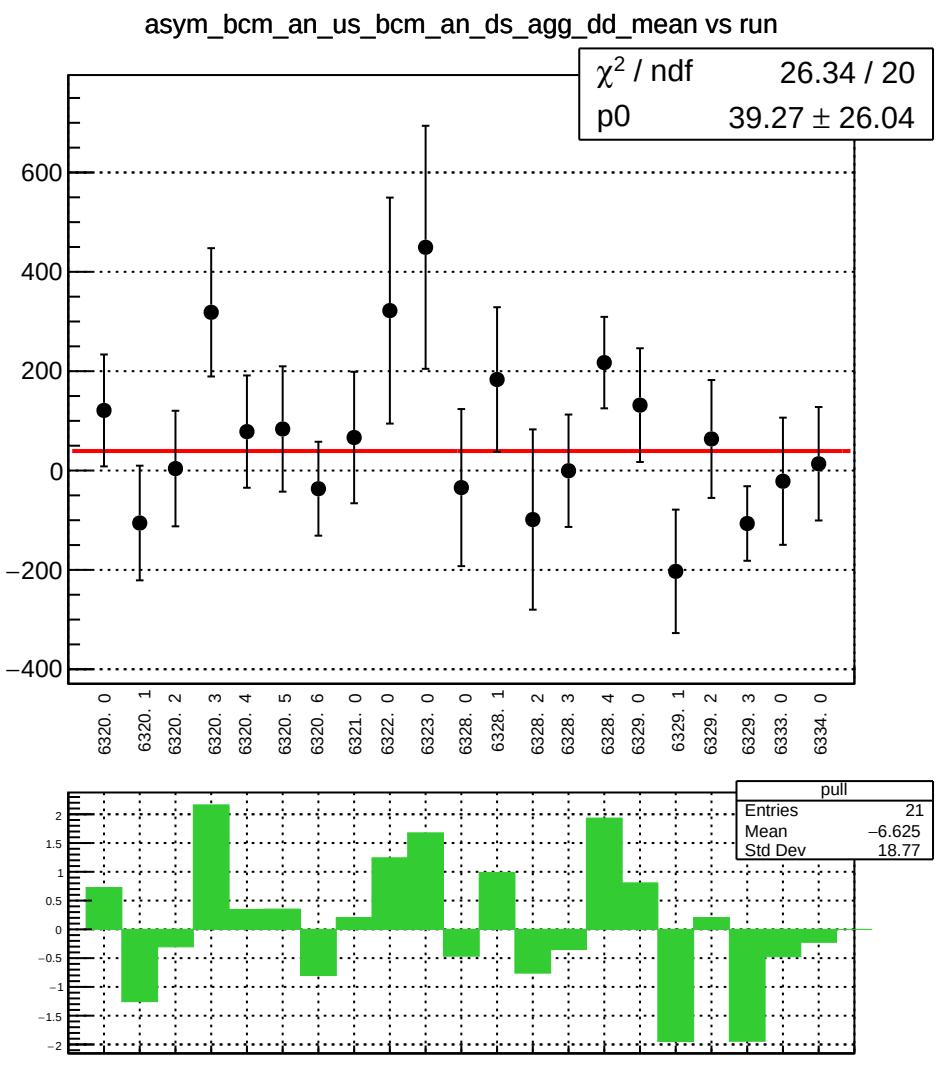

pull
Entries 21
Mean 37.55
Std Dev 30.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

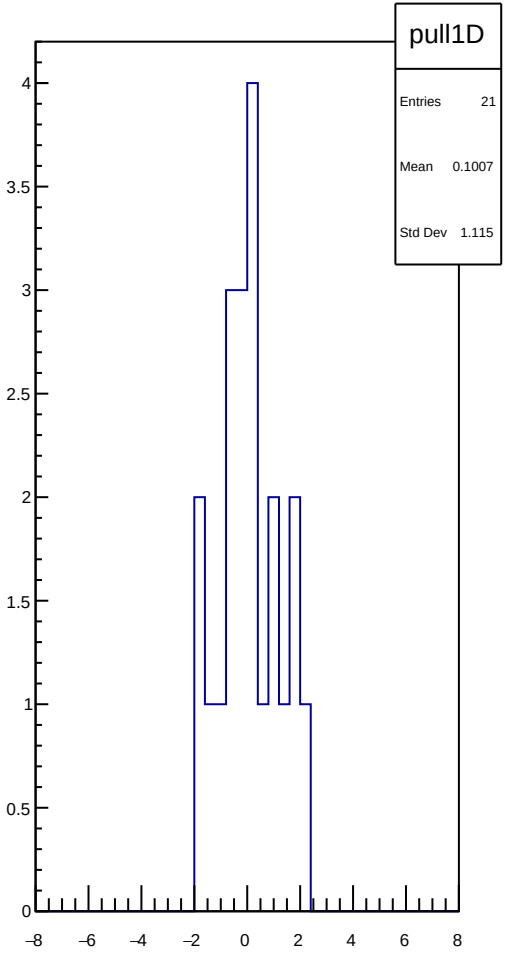

pull1D
Entries 21
Mean 0.03987
Std Dev 0.8364
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

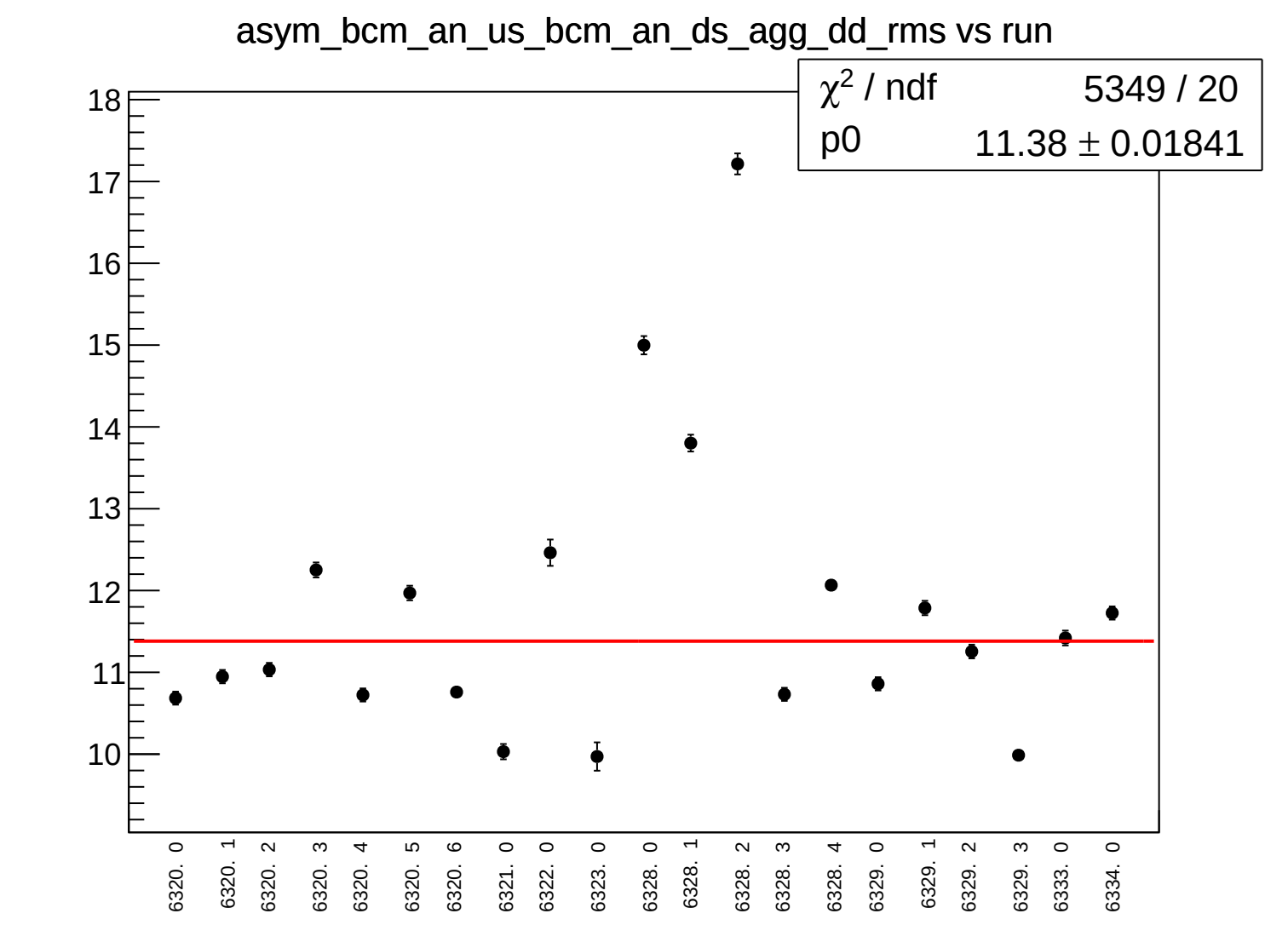

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 8113 / 20
p0 2387 ± 3.876
3400
3200
3000
2800
2600
2400
2200
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

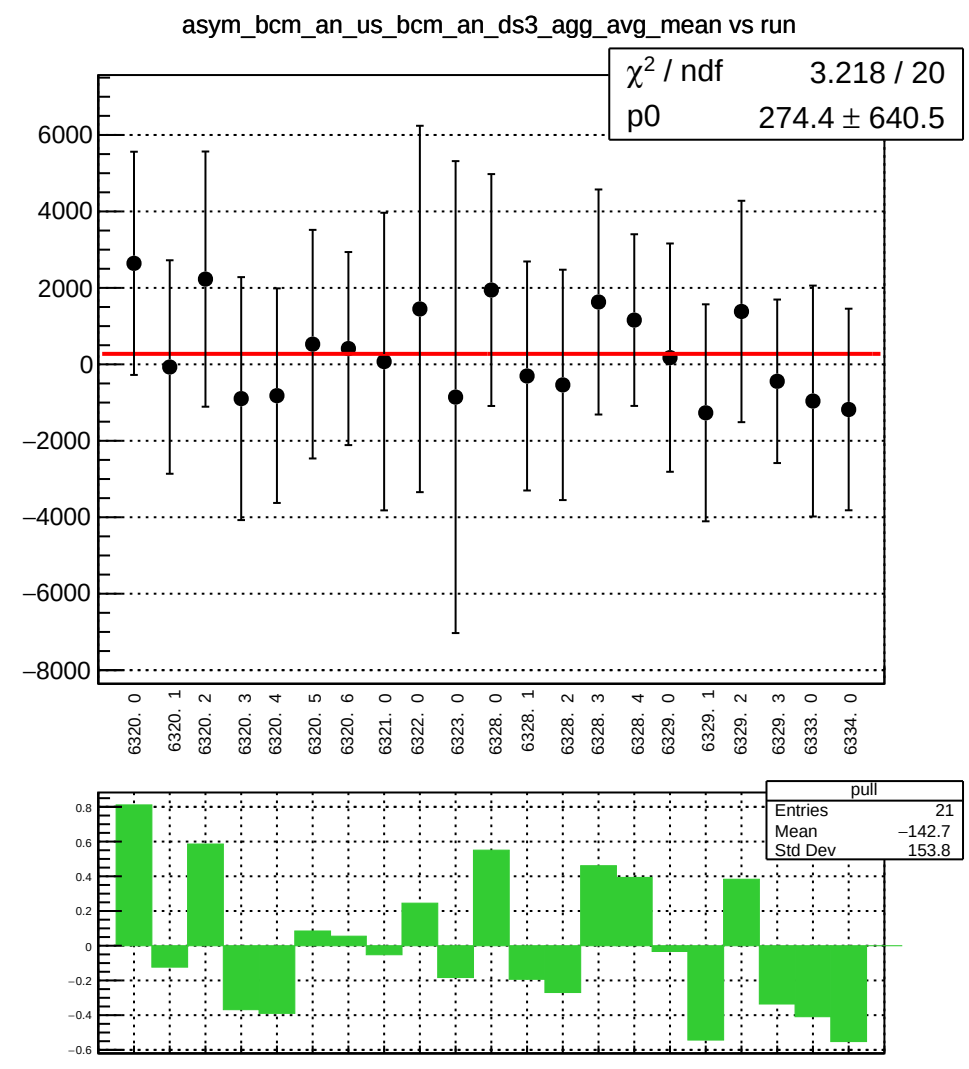

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.139 / 20
p0 284.2 ± 638.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −177.2
Std Dev 188.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.004367
Std Dev 0.3866
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

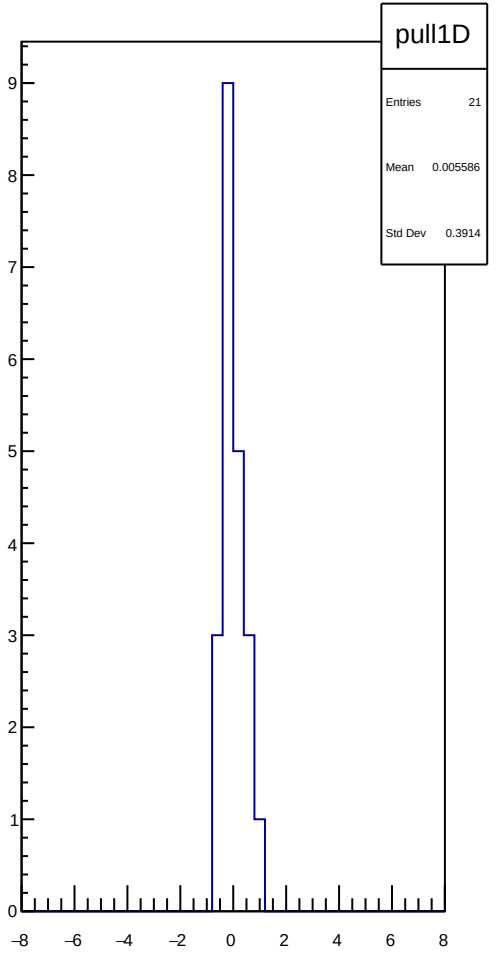

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 747.5 / 20
p0 280.9 ± 0.4517
320
310
300
290
280
270
260
250
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

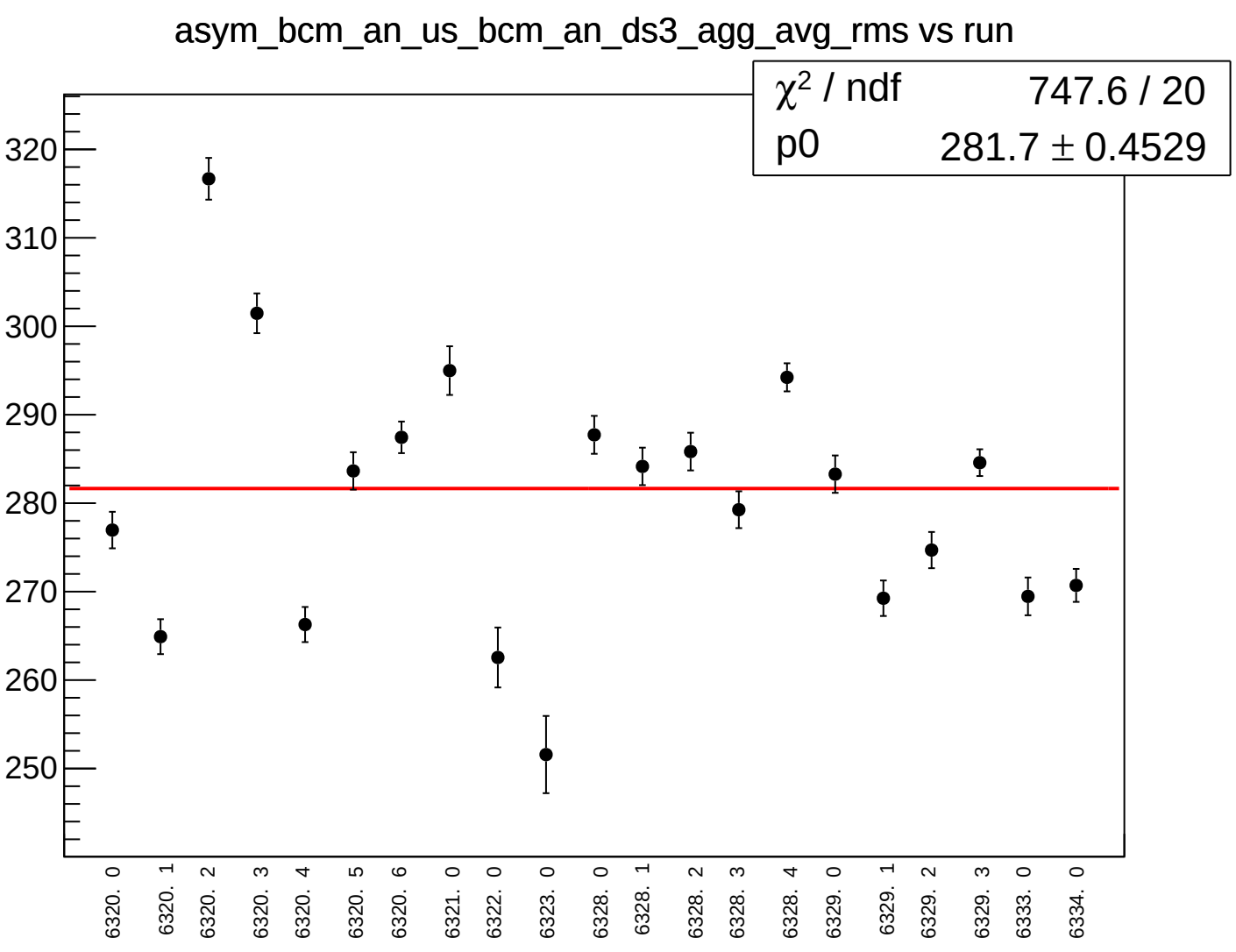

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 26.34 / 20
p0 39.27 ± 26.04
600
400
200
0
−200
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.625
Std Dev 18.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

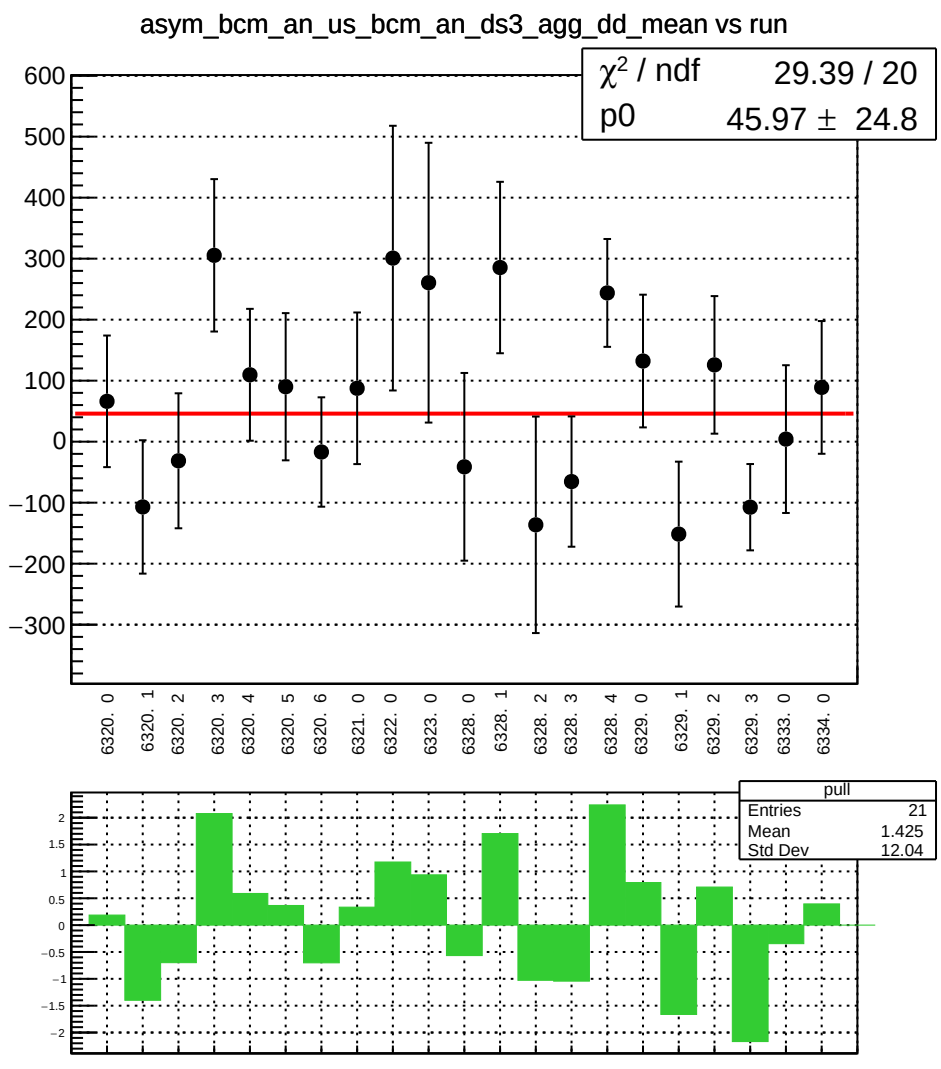

pull1D
Entries 21
Mean 0.1007
Std Dev 1.115
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

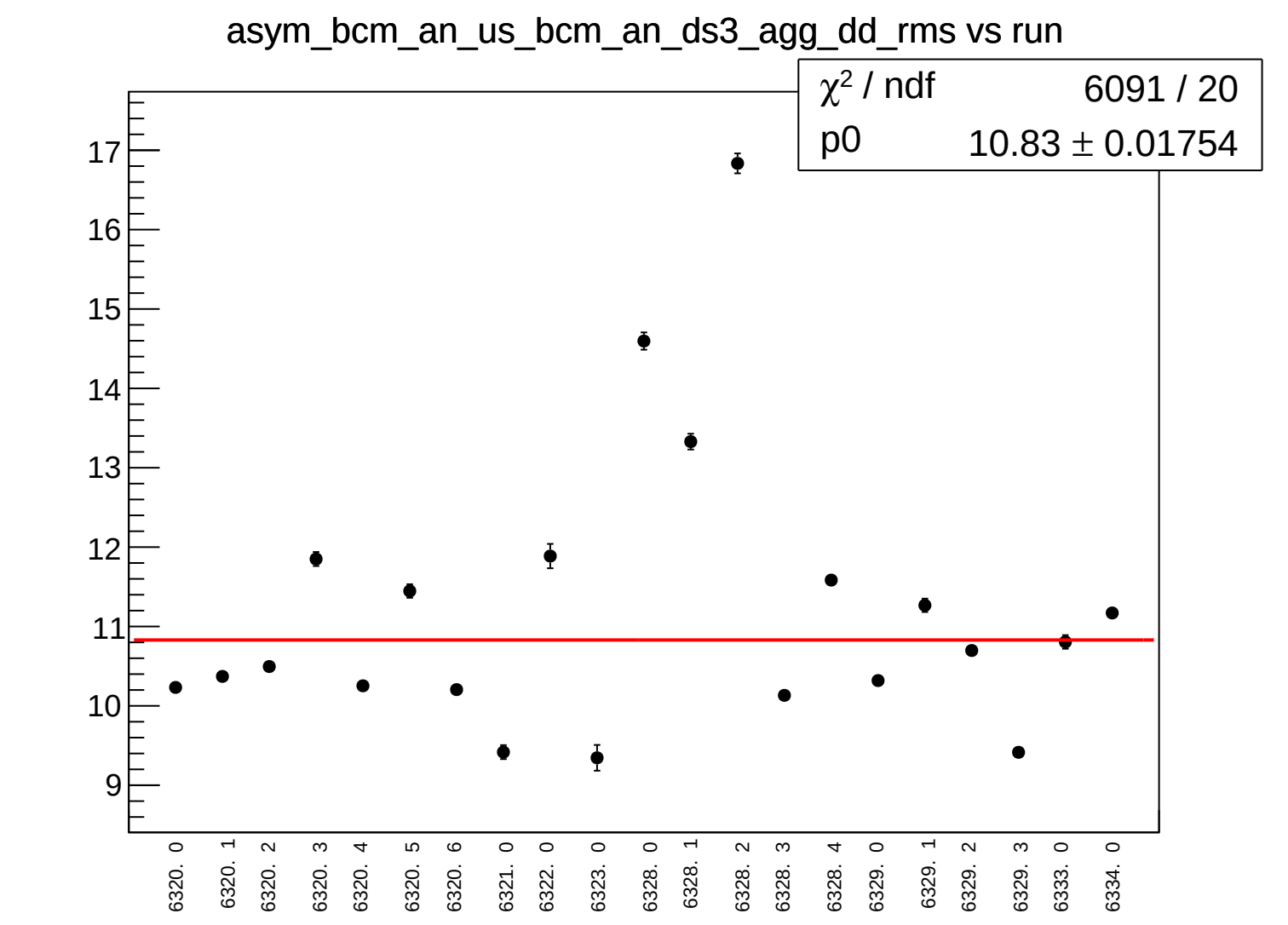

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5349 / 20
p0 11.38 ± 0.01841
18
17
16
15
14
13
12
11
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

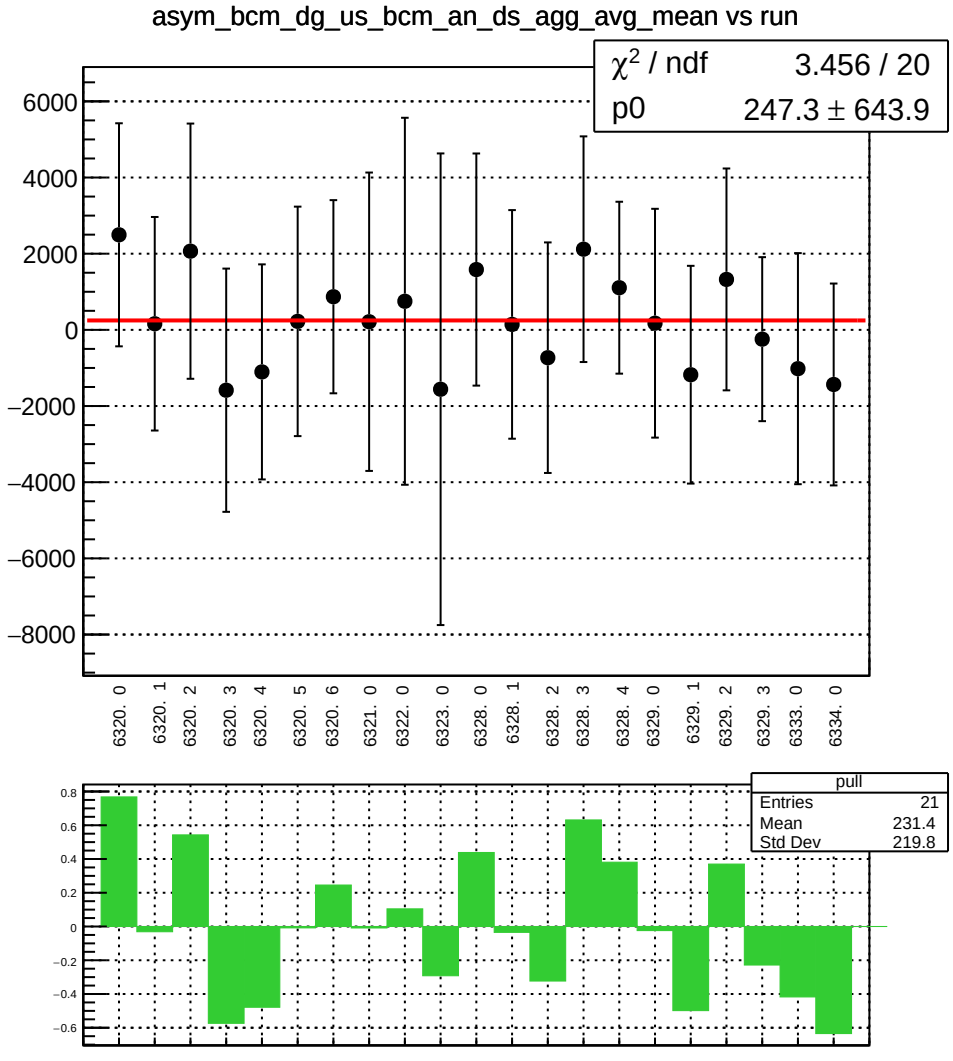

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.218 / 20
p0 274.4 ± 640.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −142.7
Std Dev 153.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

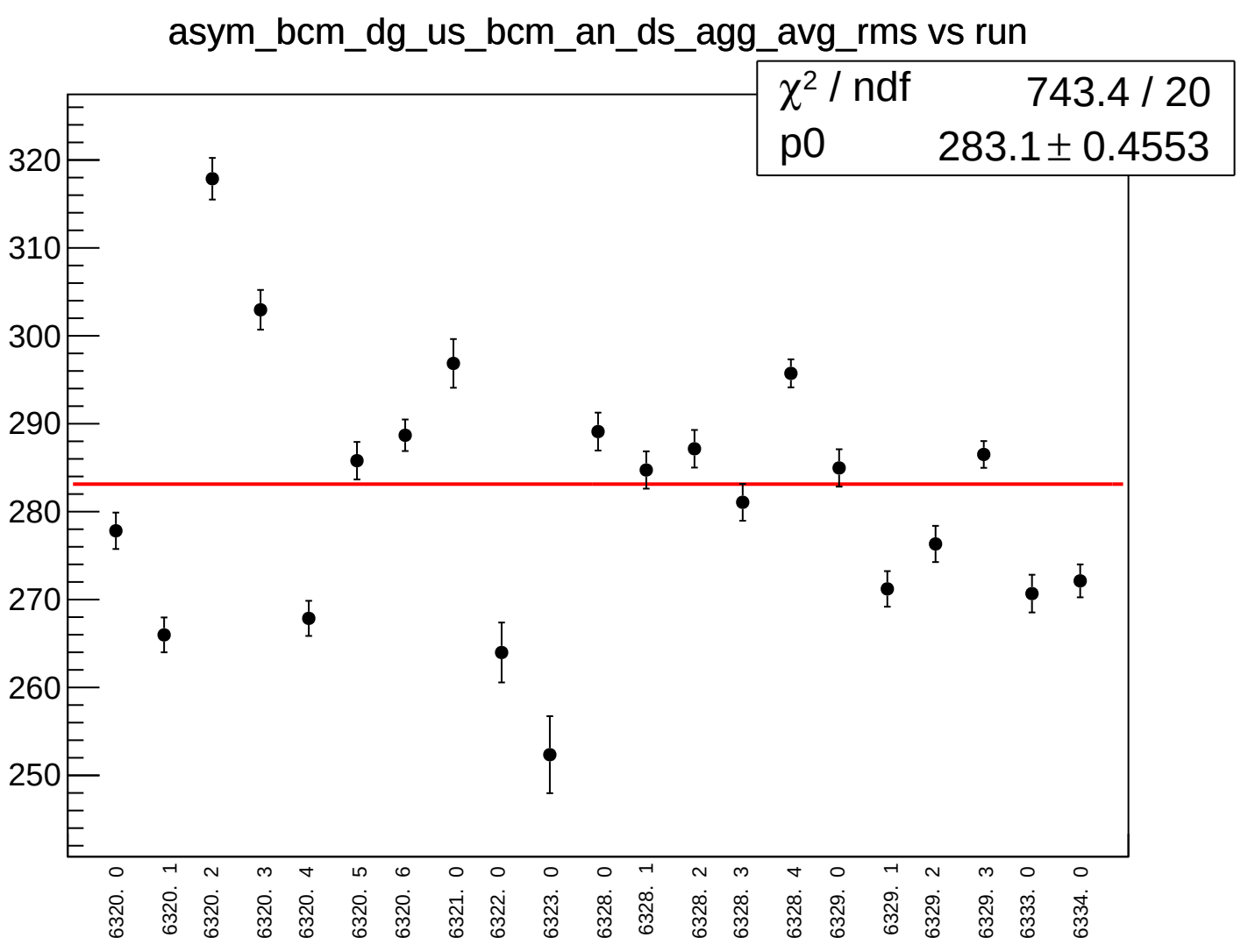

pull1D
Entries 21
Mean 0.005586
Std Dev 0.3914
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

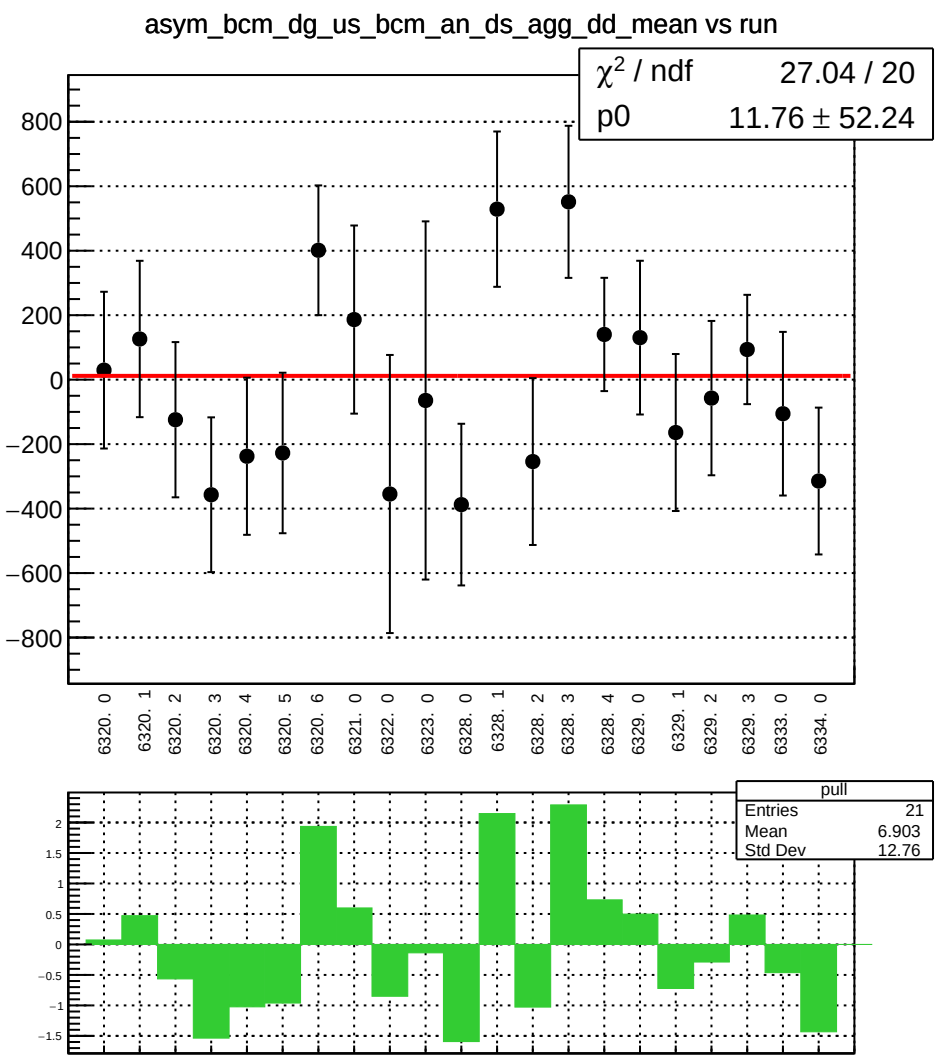

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 747.6 / 20
p0 281.7 ± 0.4529
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

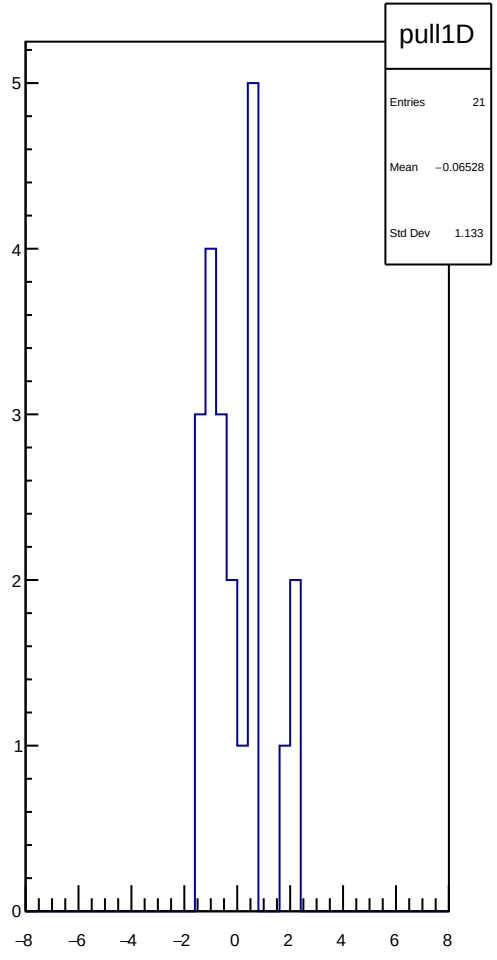

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 29.39 / 20
p0 45.97 ± 24.8
600
500
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.425
Std Dev 12.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.08998
Std Dev 1.179
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

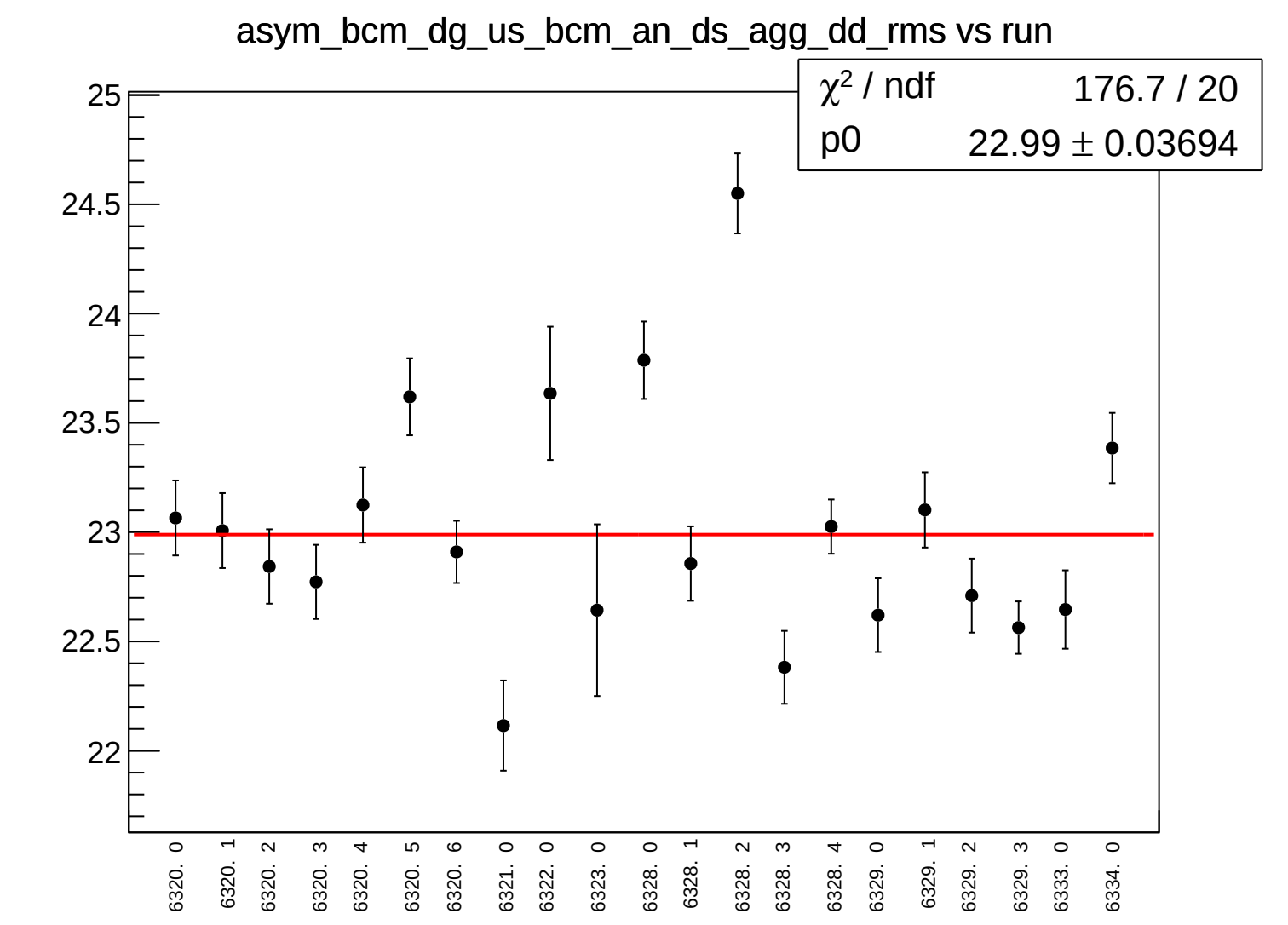

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6091 / 20
p0 10.83 ± 0.01754
17
16
15
14
13
12
11
10
9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

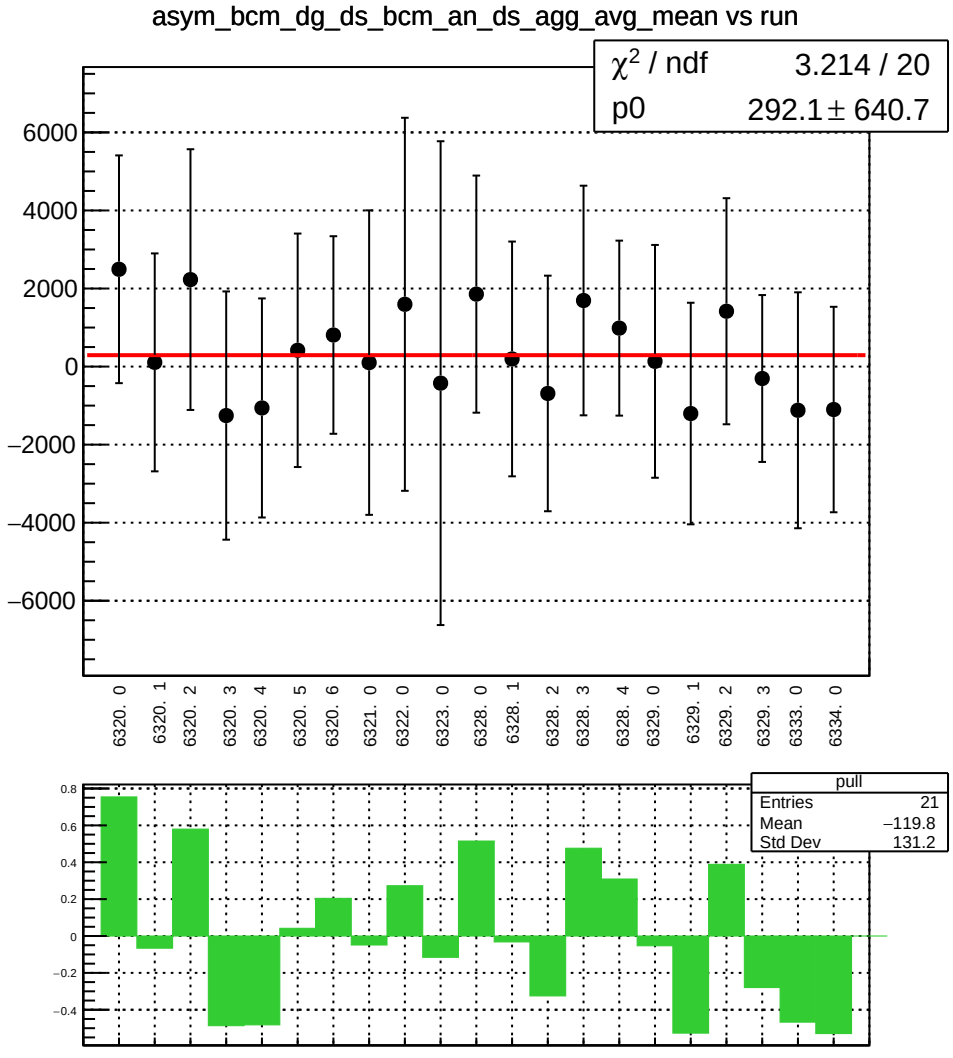

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.456 / 20
p0 247.3 ± 643.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 231.4
Std Dev 219.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.00332
Std Dev 0.4057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

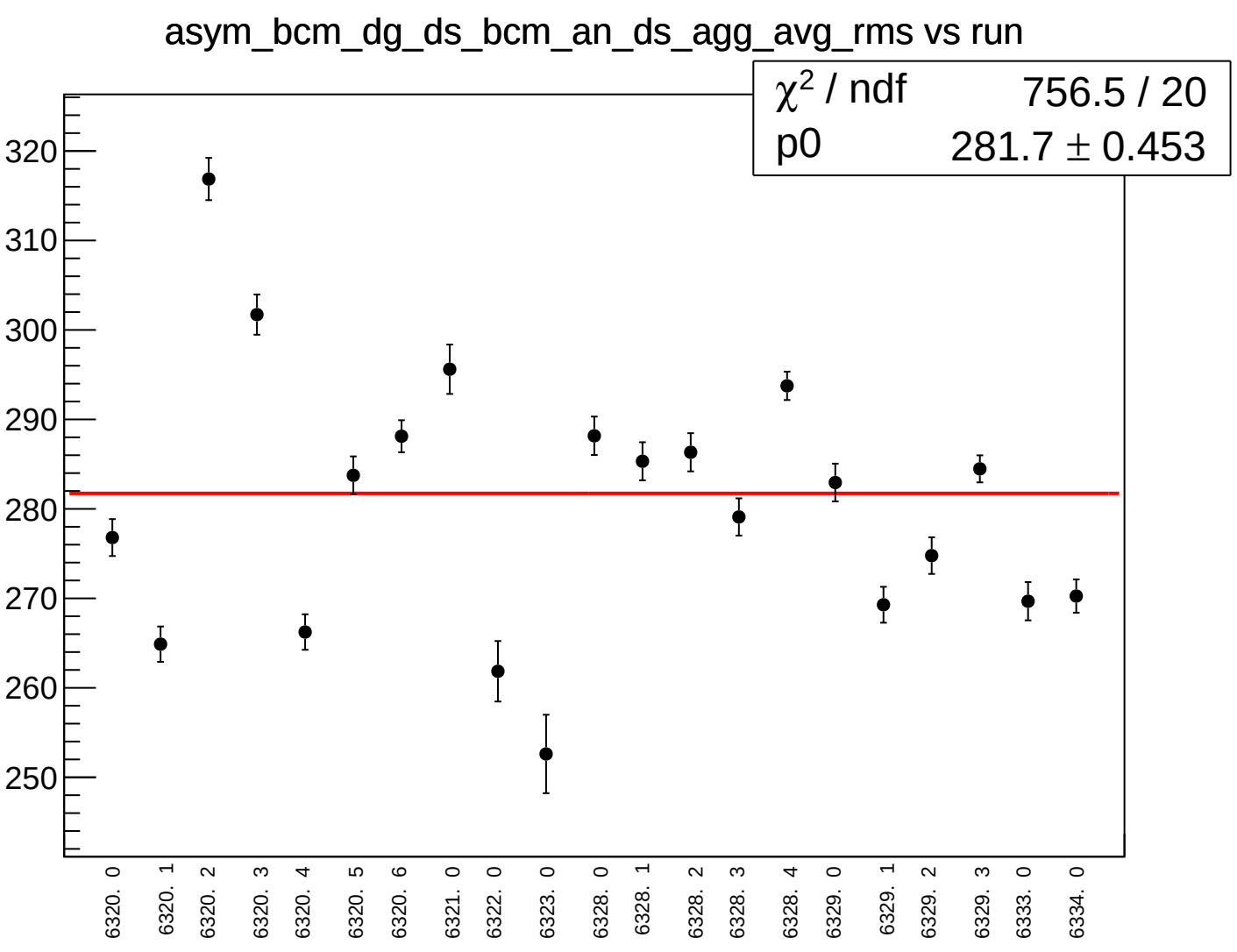

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 743.4 / 20
p0 283.1 ± 0.4553
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

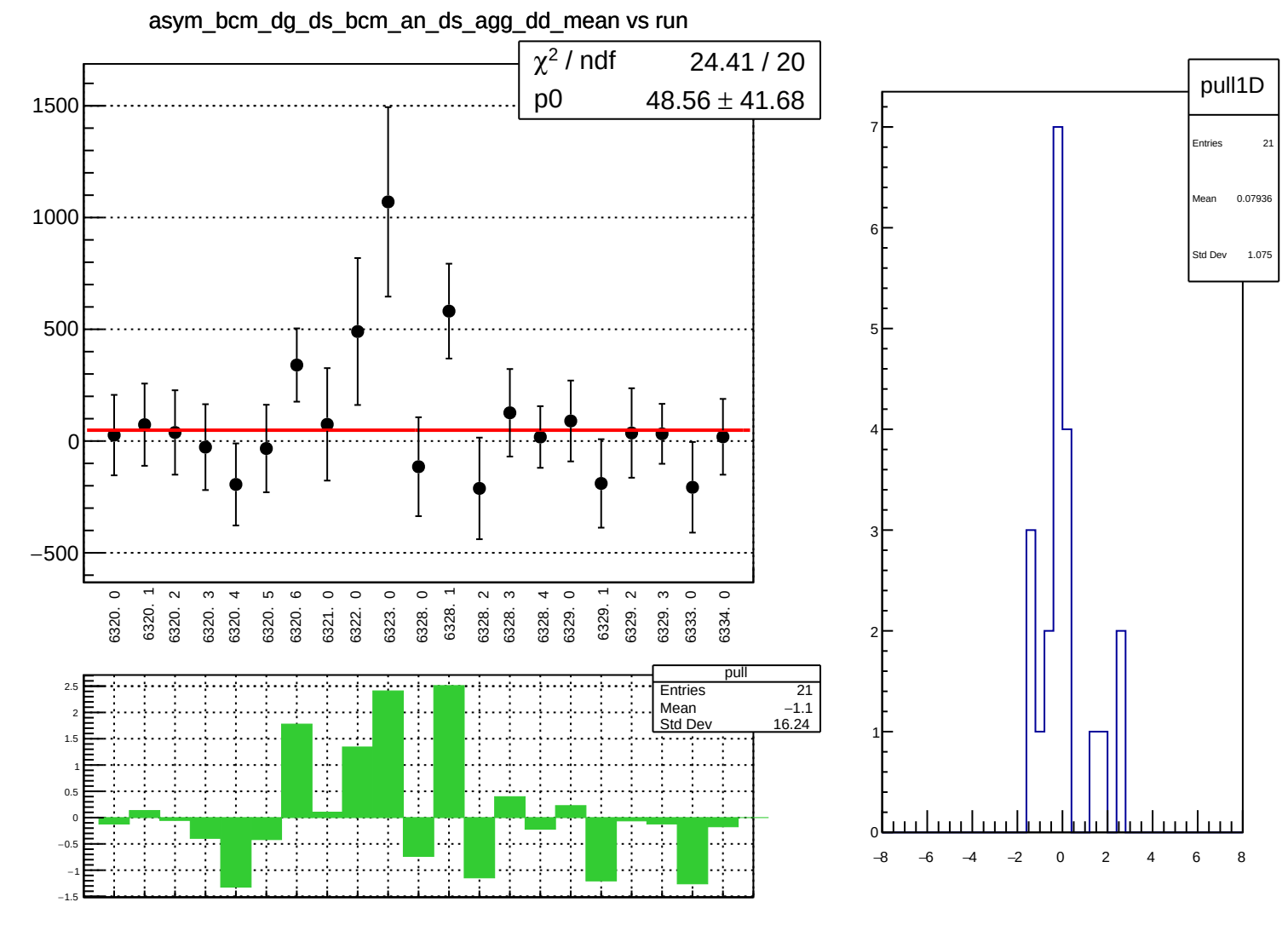

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 27.04 / 20
p0 11.76 ± 52.24
800
600
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 6.903
Std Dev 12.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

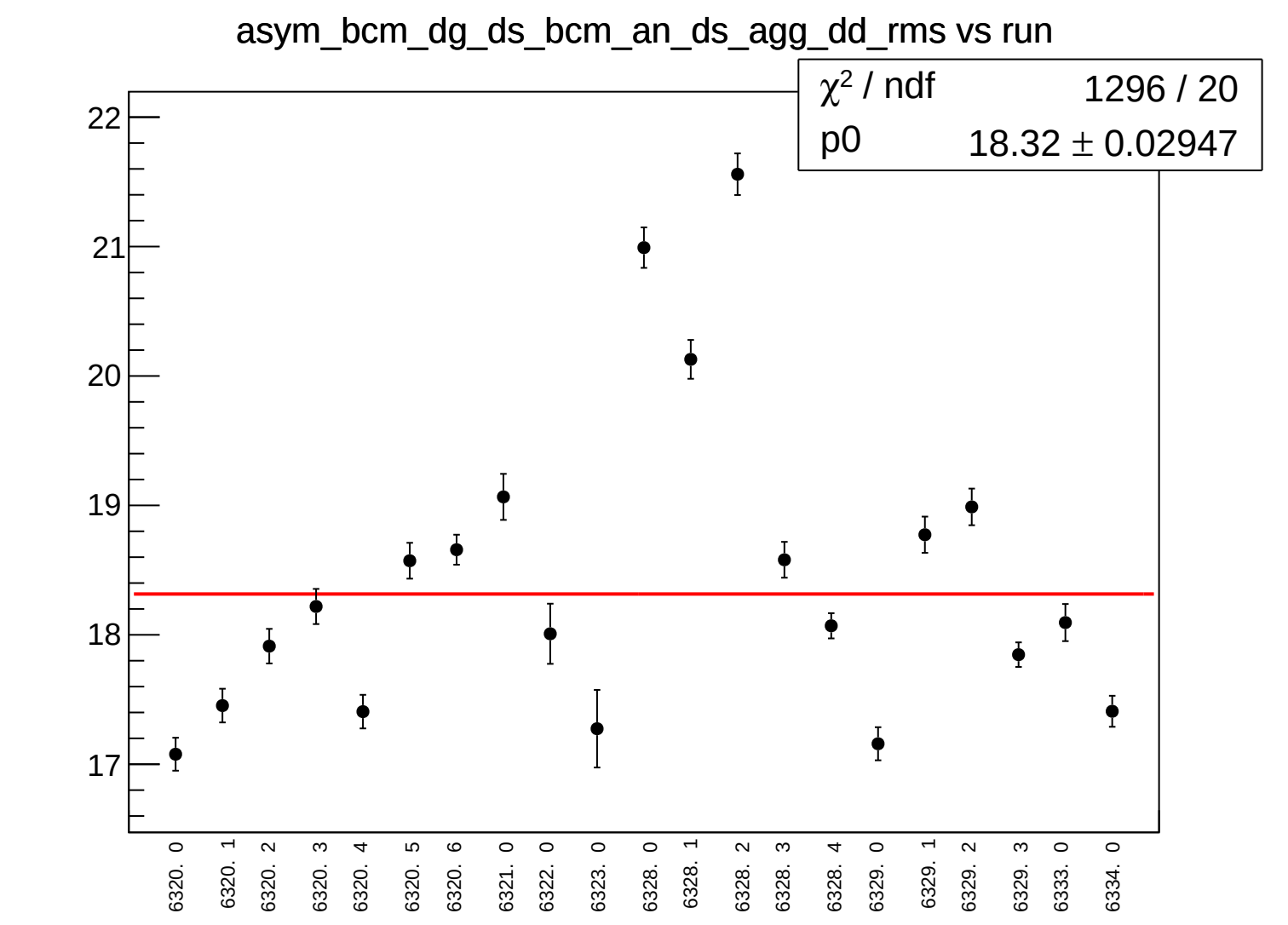

pull1D
Entries 21
Mean −0.06528
Std Dev 1.133
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

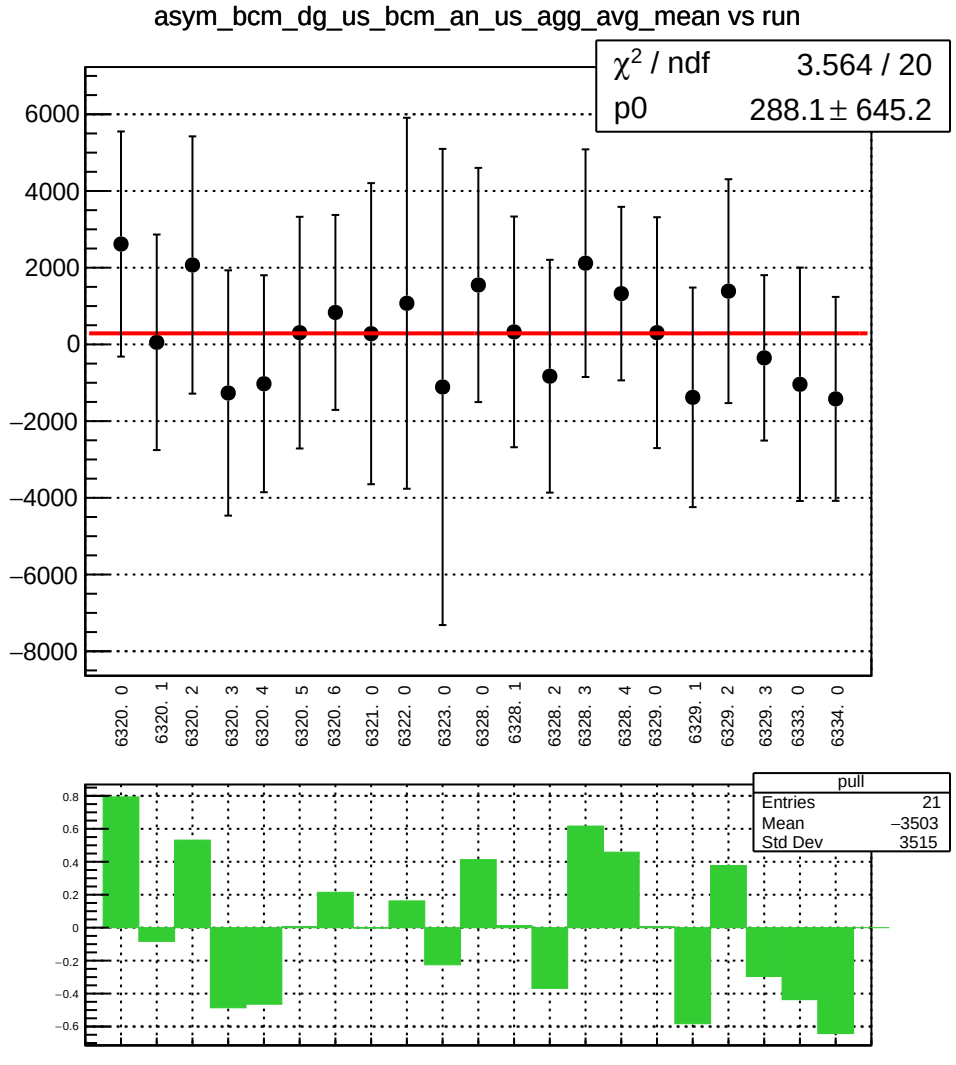

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 176.7 / 20
p0 22.99 ± 0.03694
25
24.5
24
23.5
23
22.5
22
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

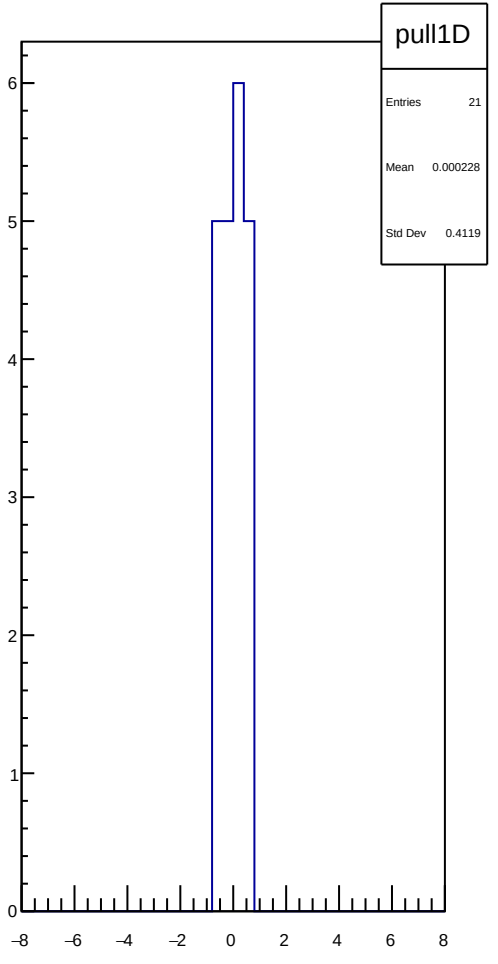

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.214 / 20
p0 292.1 ± 640.7
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −119.8
Std Dev 131.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.006233
Std Dev 0.3911
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

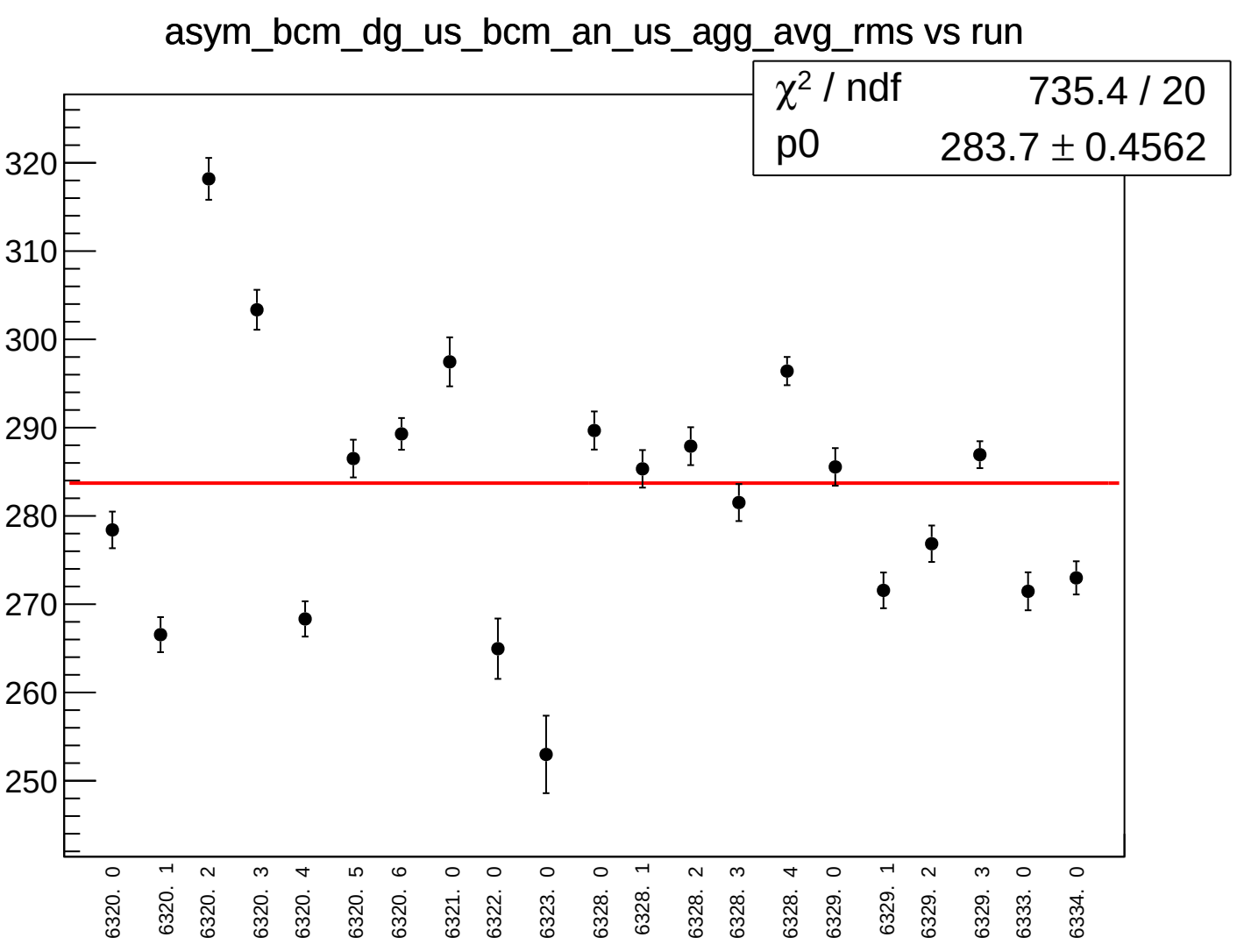

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 756.5 / 20
p0 281.7 ± 0.453
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

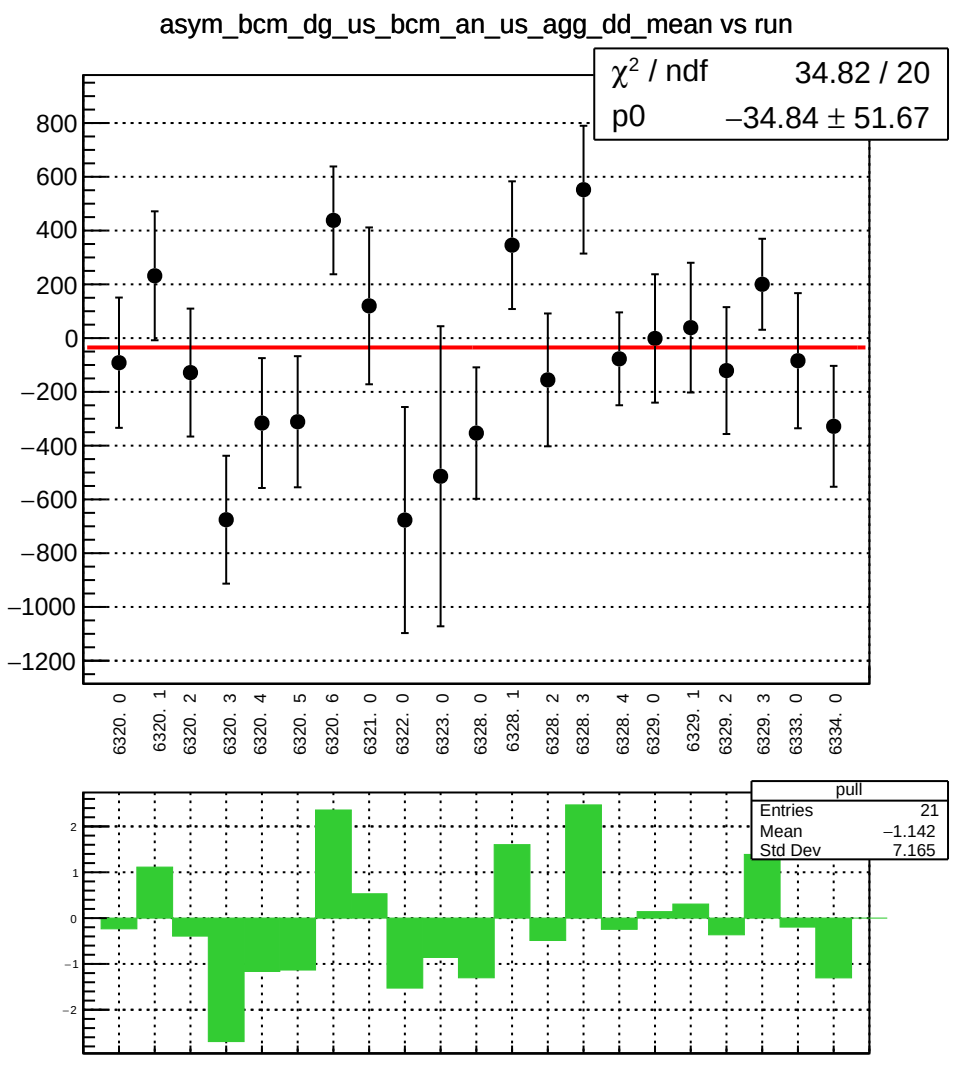

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 24.41 / 20
p0 48.56 ± 41.68
1500
1000
500
0
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.1
Std Dev 16.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.07936
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

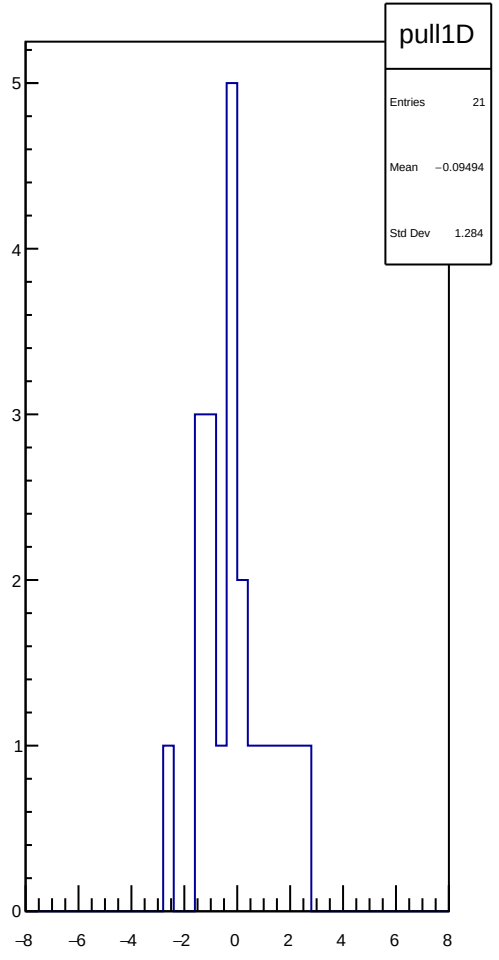

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1296 / 20
p0 18.32 ± 0.02947
22
21
20
19
18
17
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

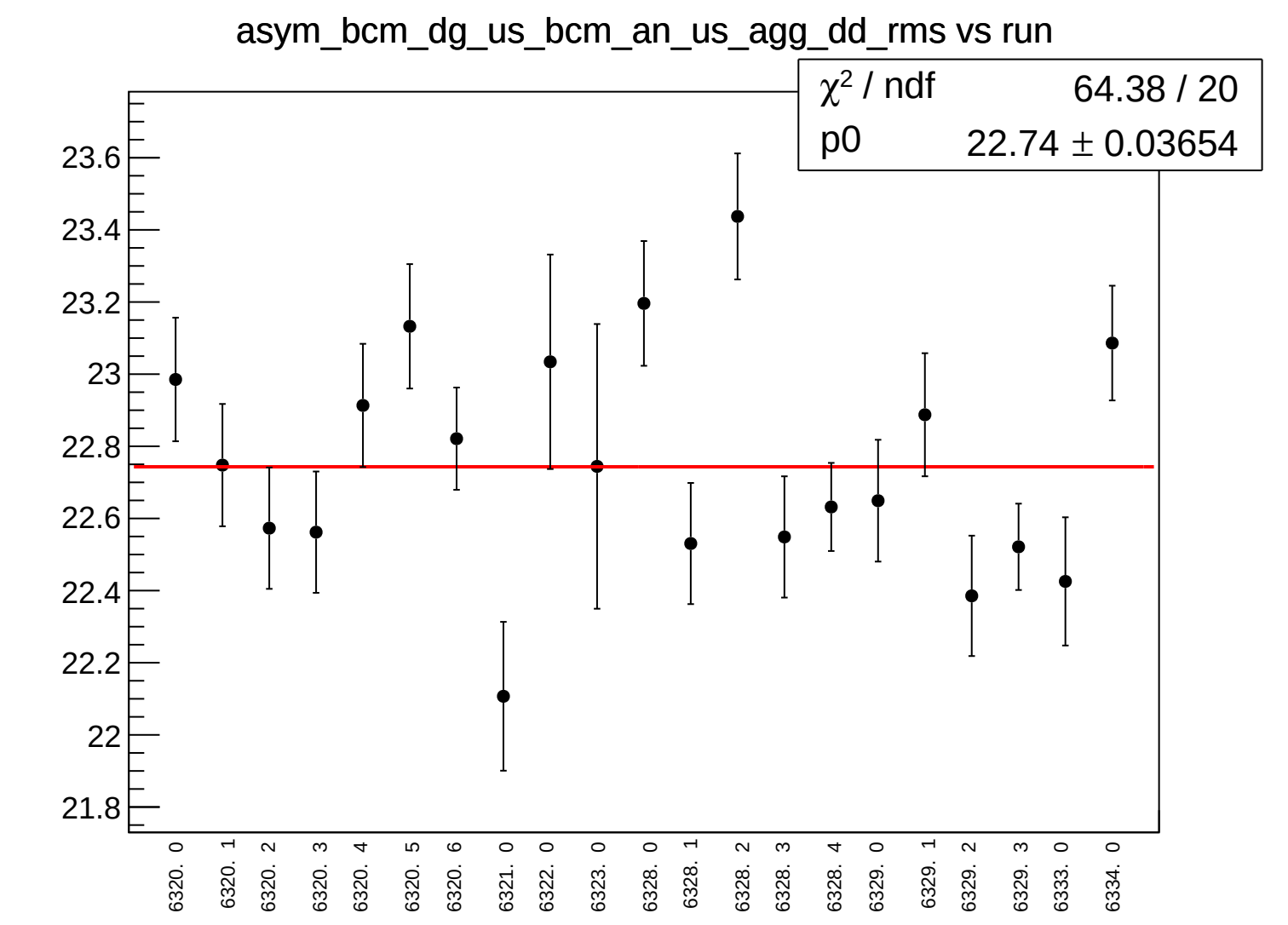

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.564 / 20
p0 288.1 ± 645.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3503
Std Dev 3515
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

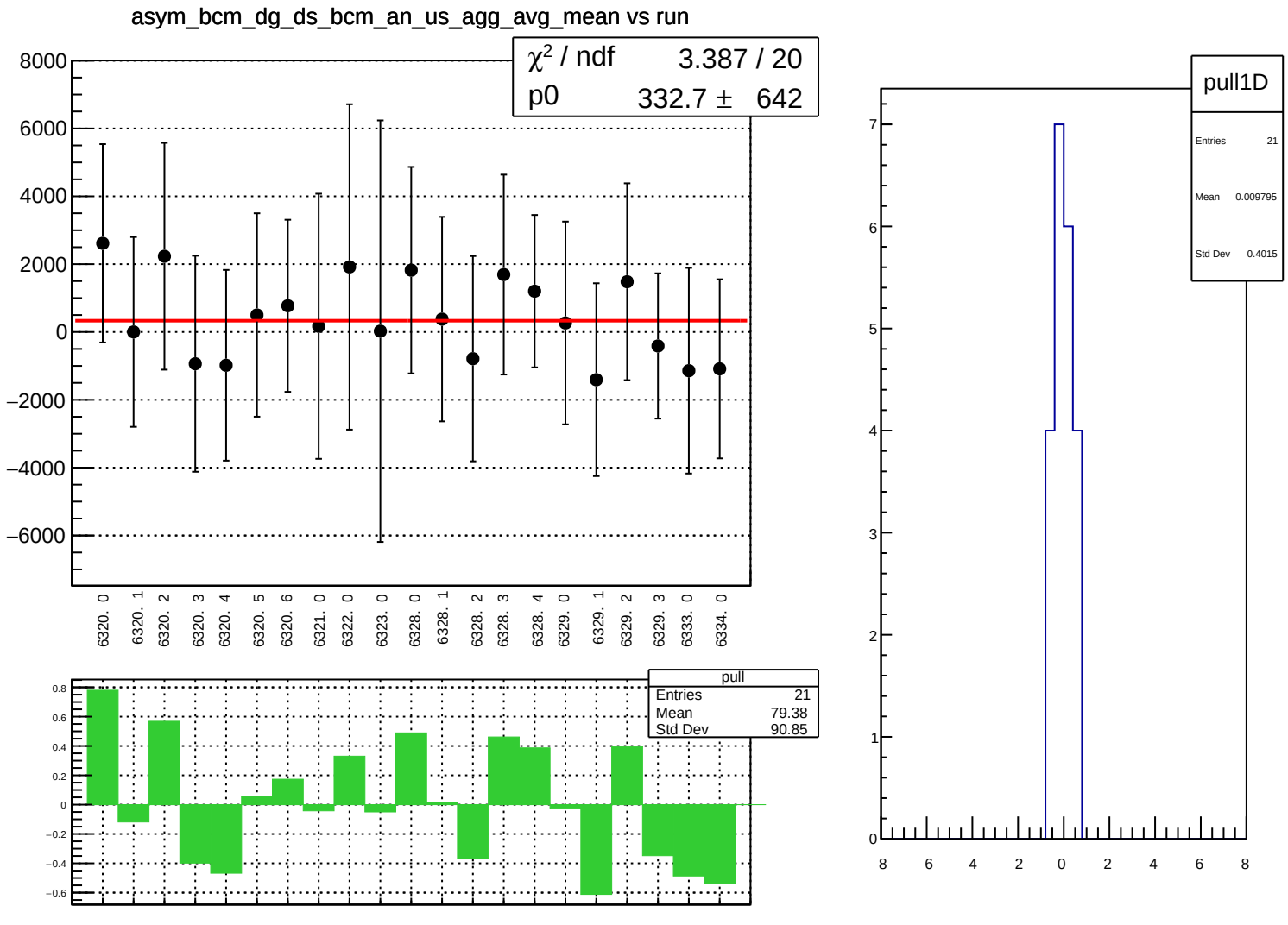

pull1D
Entries 21
Mean 0.000228
Std Dev 0.4119
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

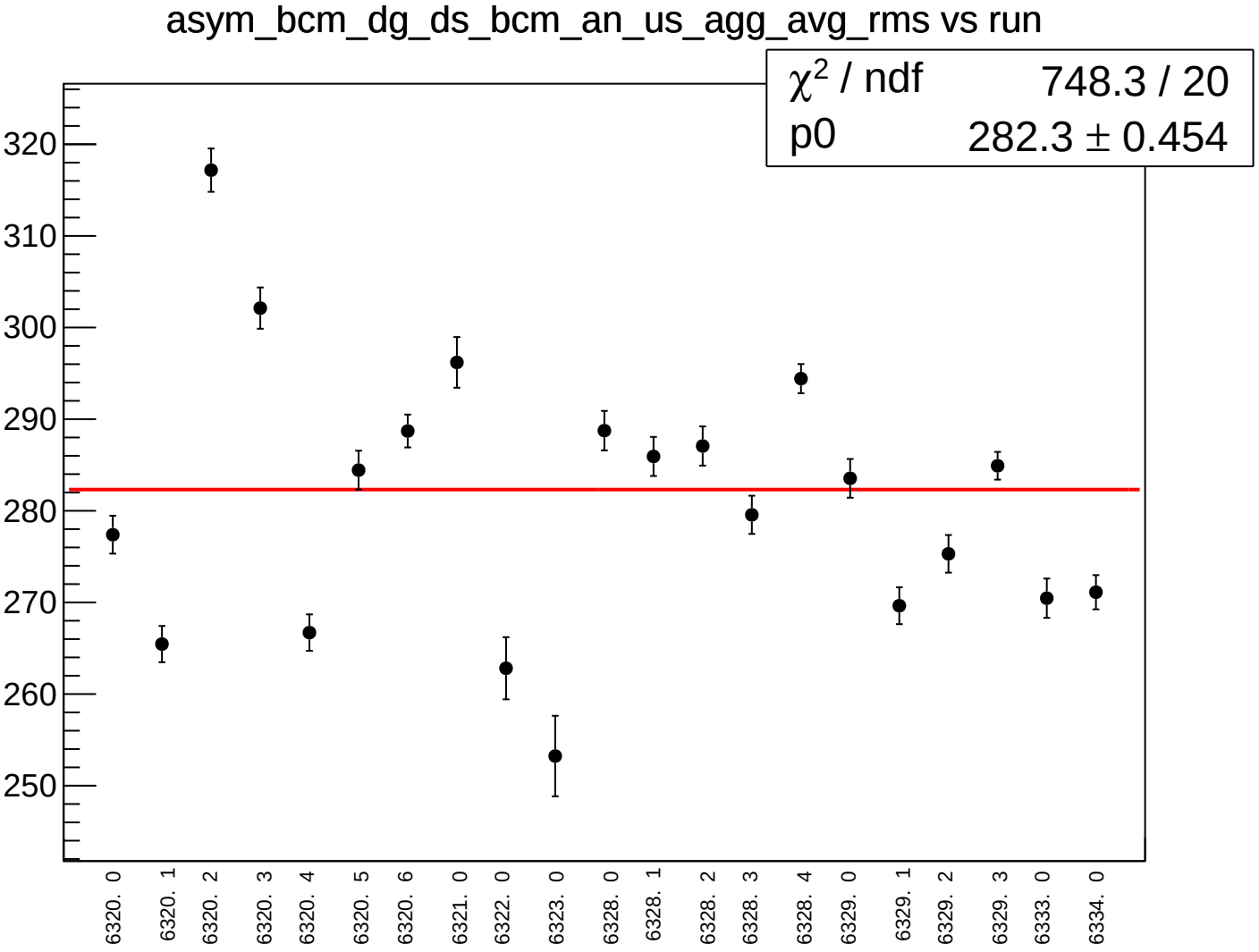

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 735.4 / 20
p0 283.7 ± 0.4562
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

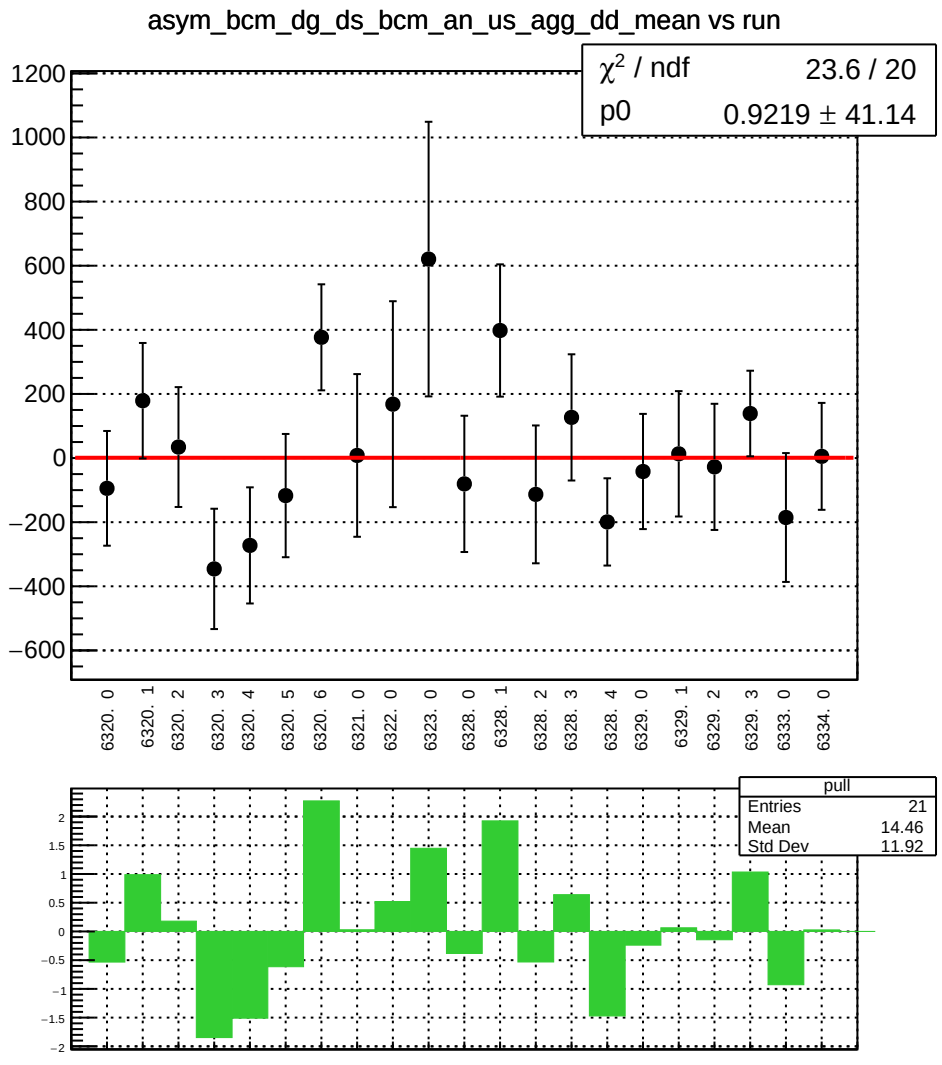

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 34.82 / 20
p0 −34.84 ± 51.67
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.142
Std Dev 7.165
2
1
0
−1
−2

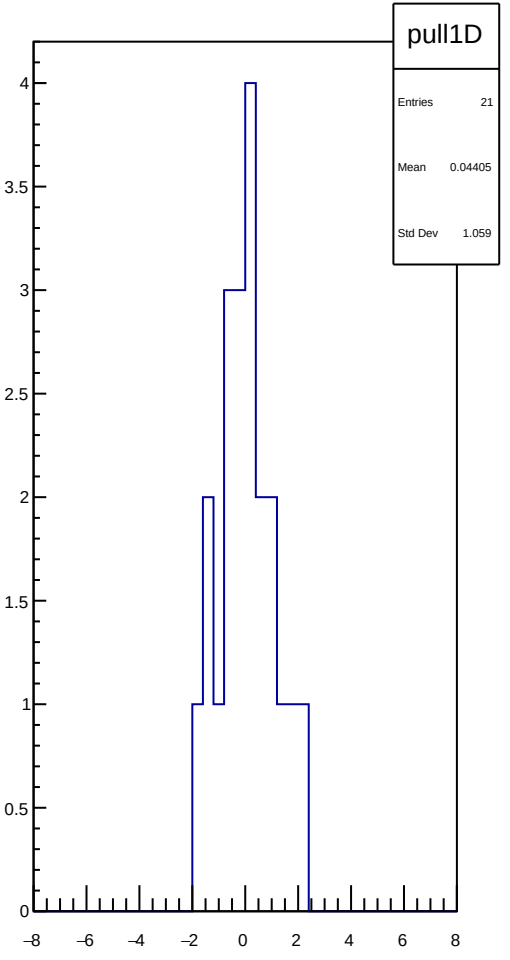

pull1D
Entries 21
Mean −0.09494
Std Dev 1.284
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

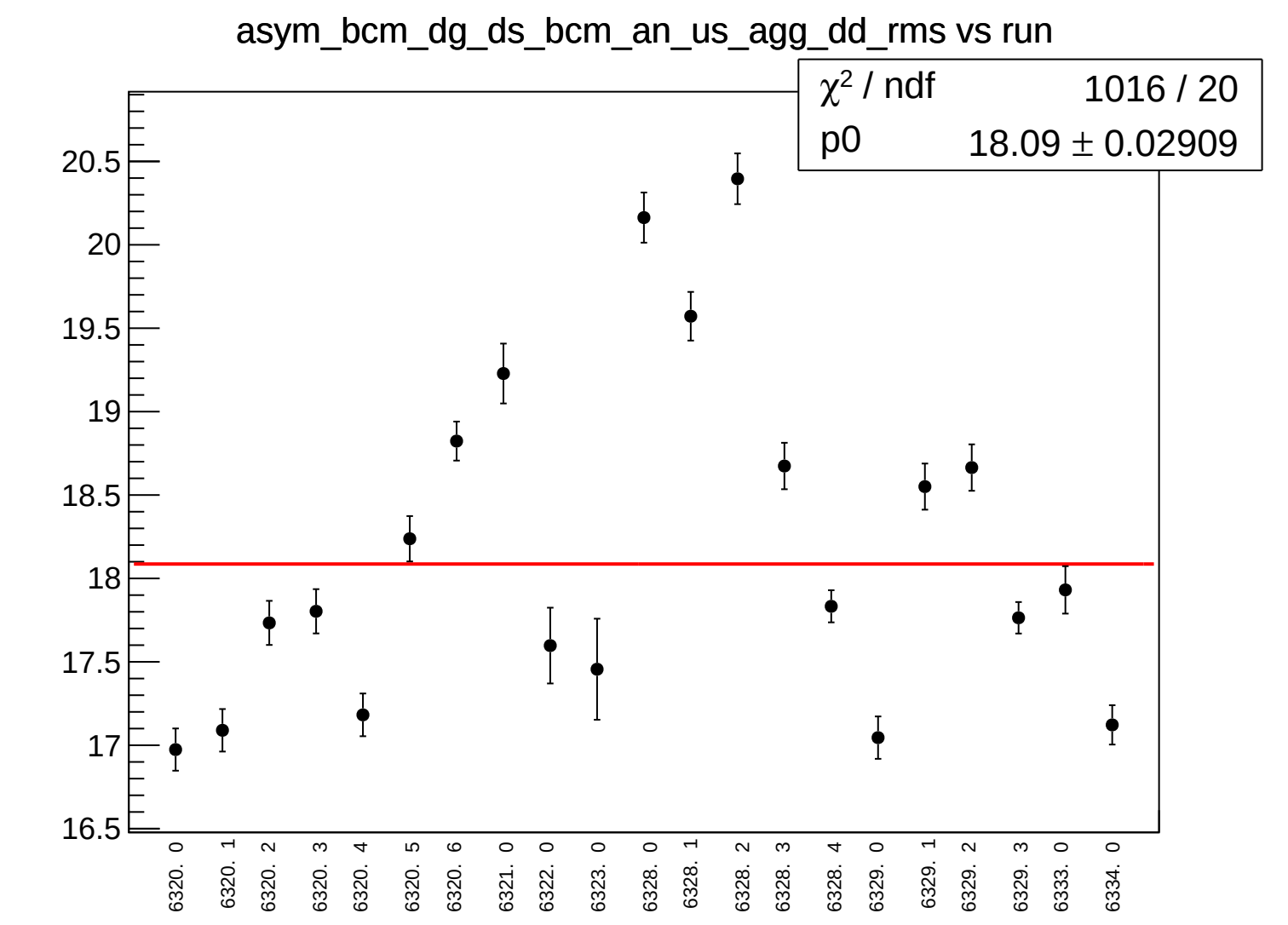

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 64.38 / 20
p0 22.74 ± 0.03654
23.6
23.4
23.2
23
22.8
22.6
22.4
22.2
22
21.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

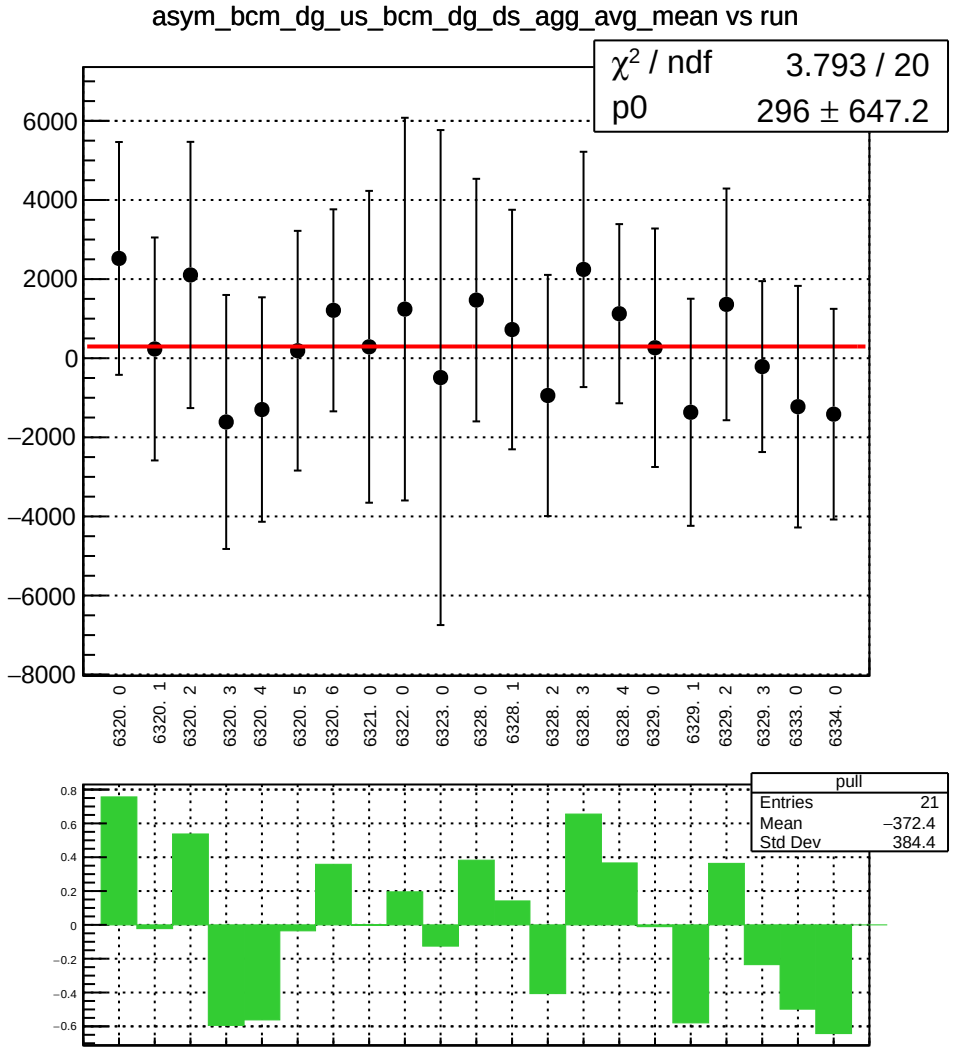

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.387 / 20
p0 332.7 ± 642
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −79.38
Std Dev 90.85
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.009795
Std Dev 0.4015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

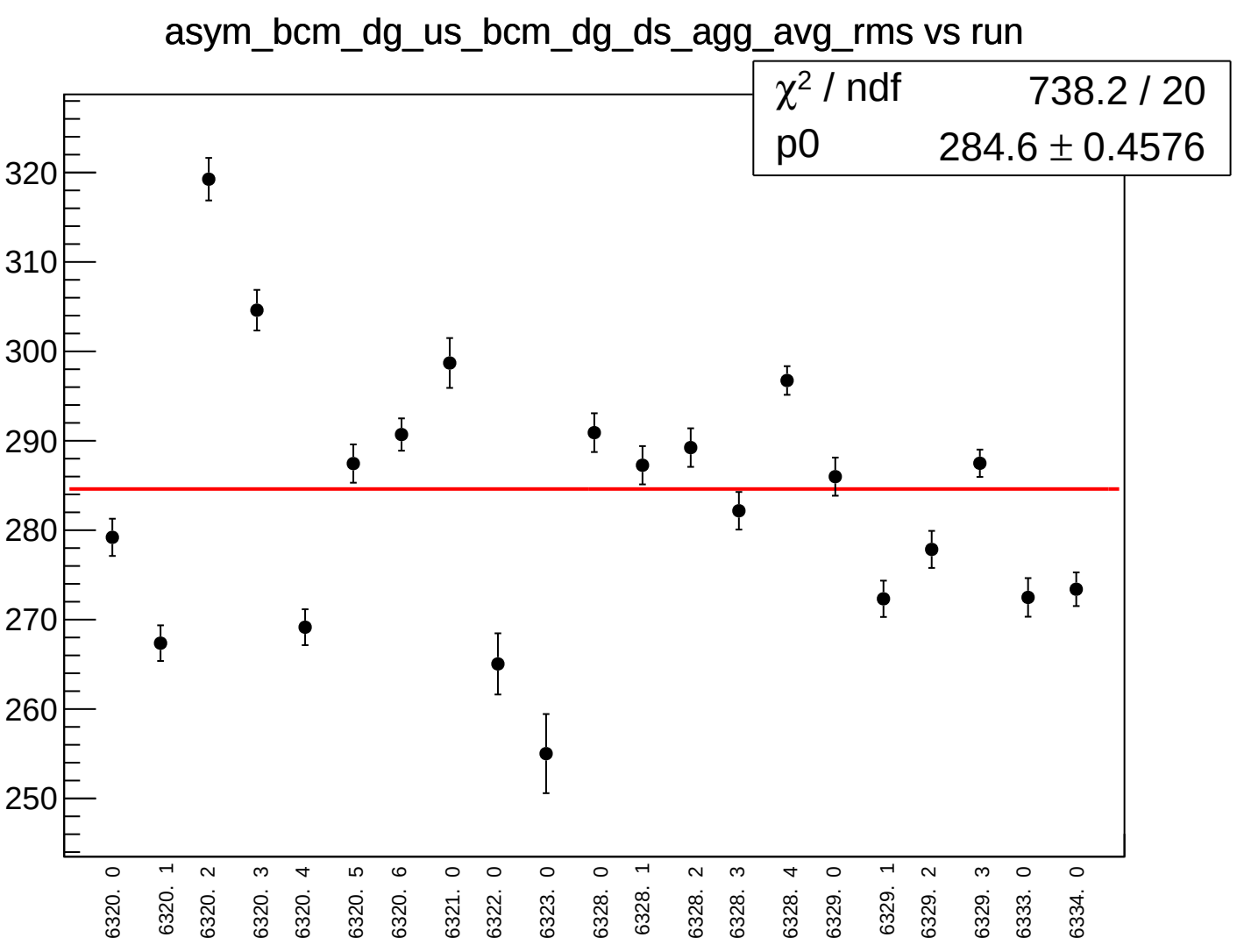

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 748.3 / 20
p0 282.3 ± 0.454
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

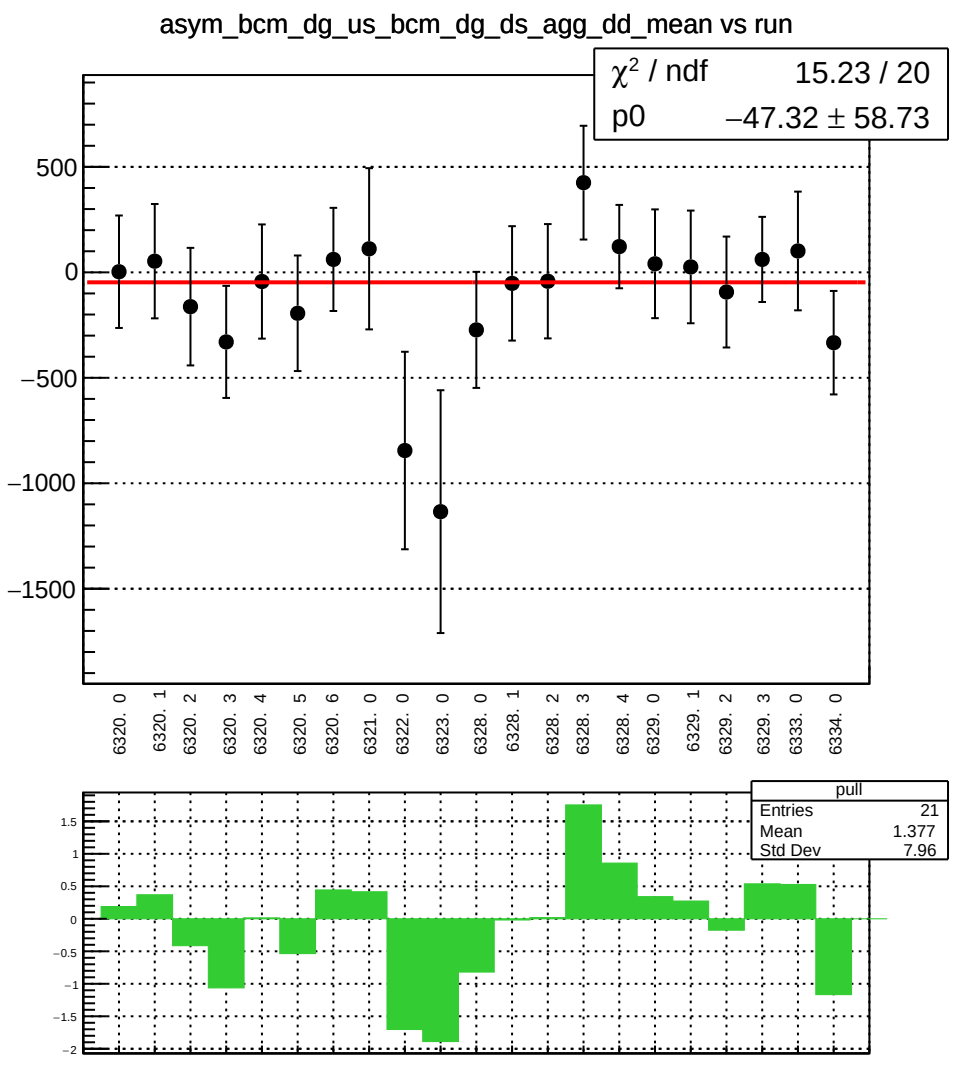

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.6 / 20
p0 0.9219 ± 41.14
1200
1000
800
600
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 14.46
Std Dev 11.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

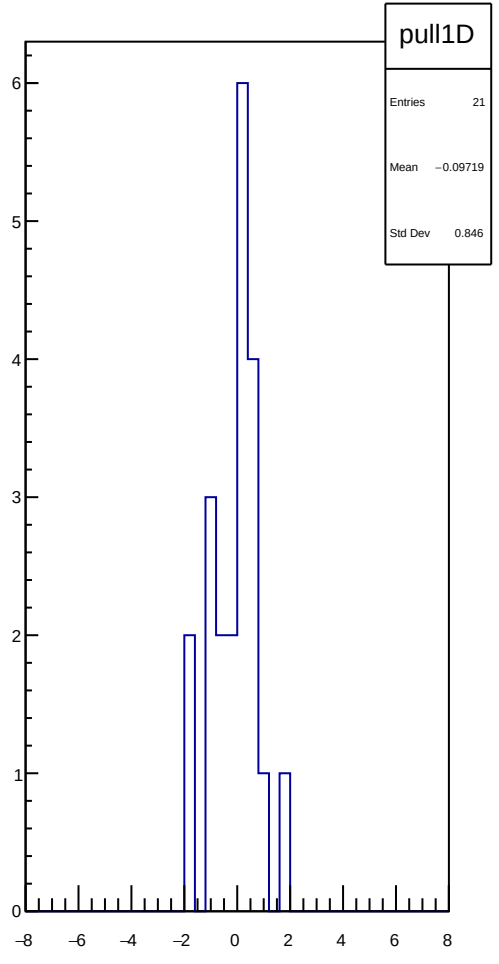

pull1D
Entries 21
Mean 0.04405
Std Dev 1.059
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

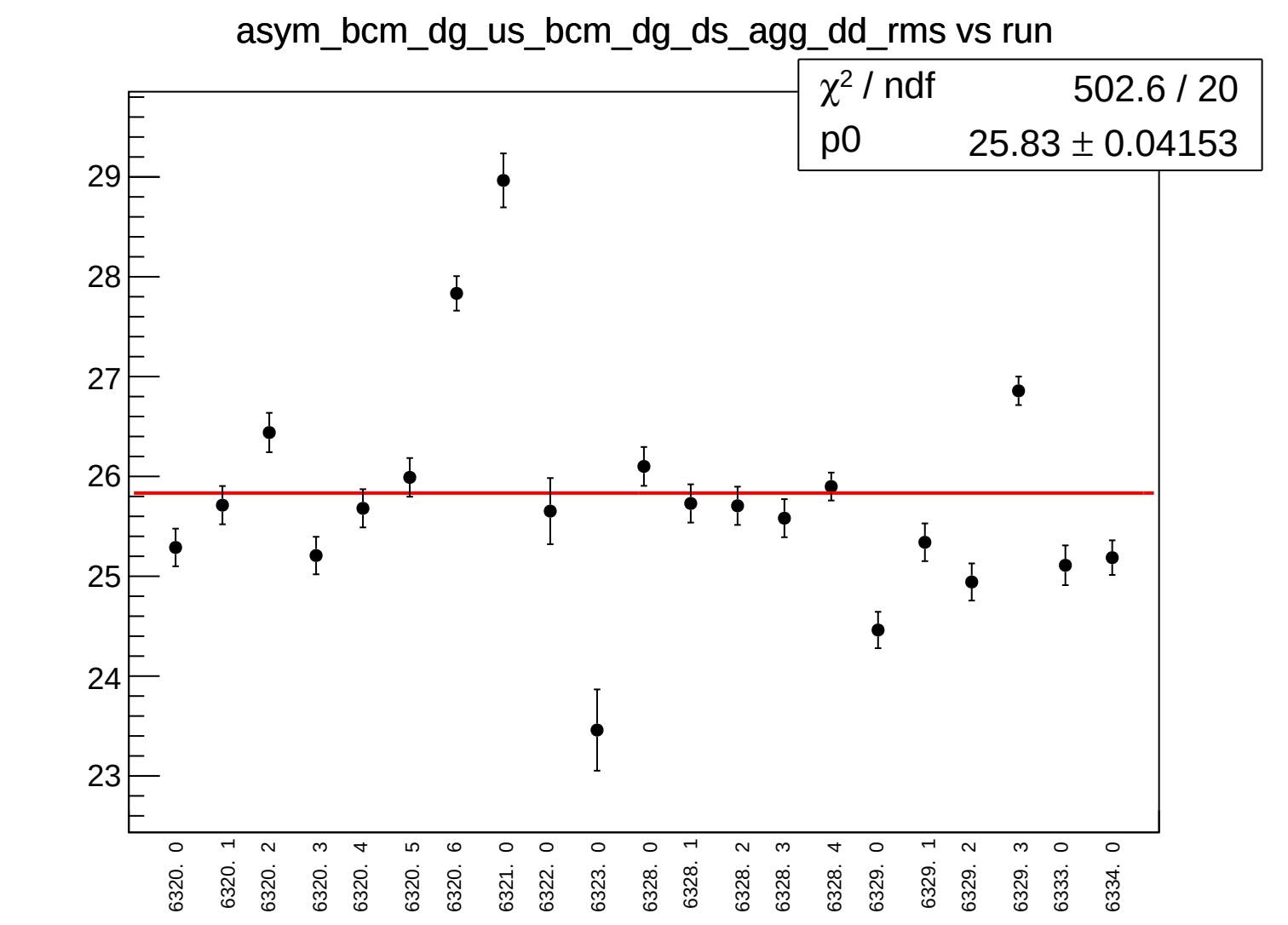

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1016 / 20
p0 18.09 ± 0.02909
20.5
20
19.5
19
18.5
18
17.5
17
16.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

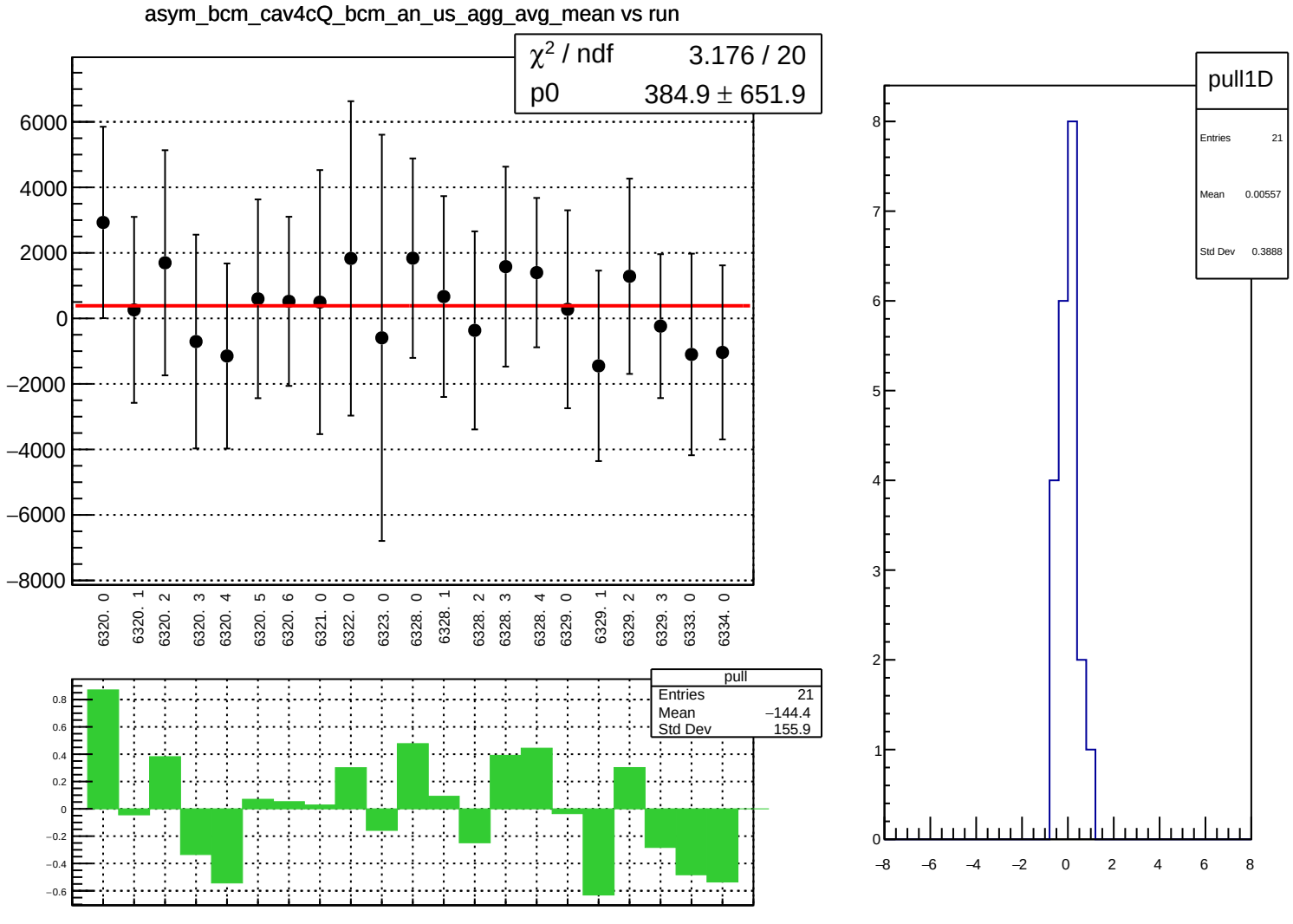

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.793 / 20
p0 296 ± 647.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −372.4
Std Dev 384.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.002073
Std Dev 0.425
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

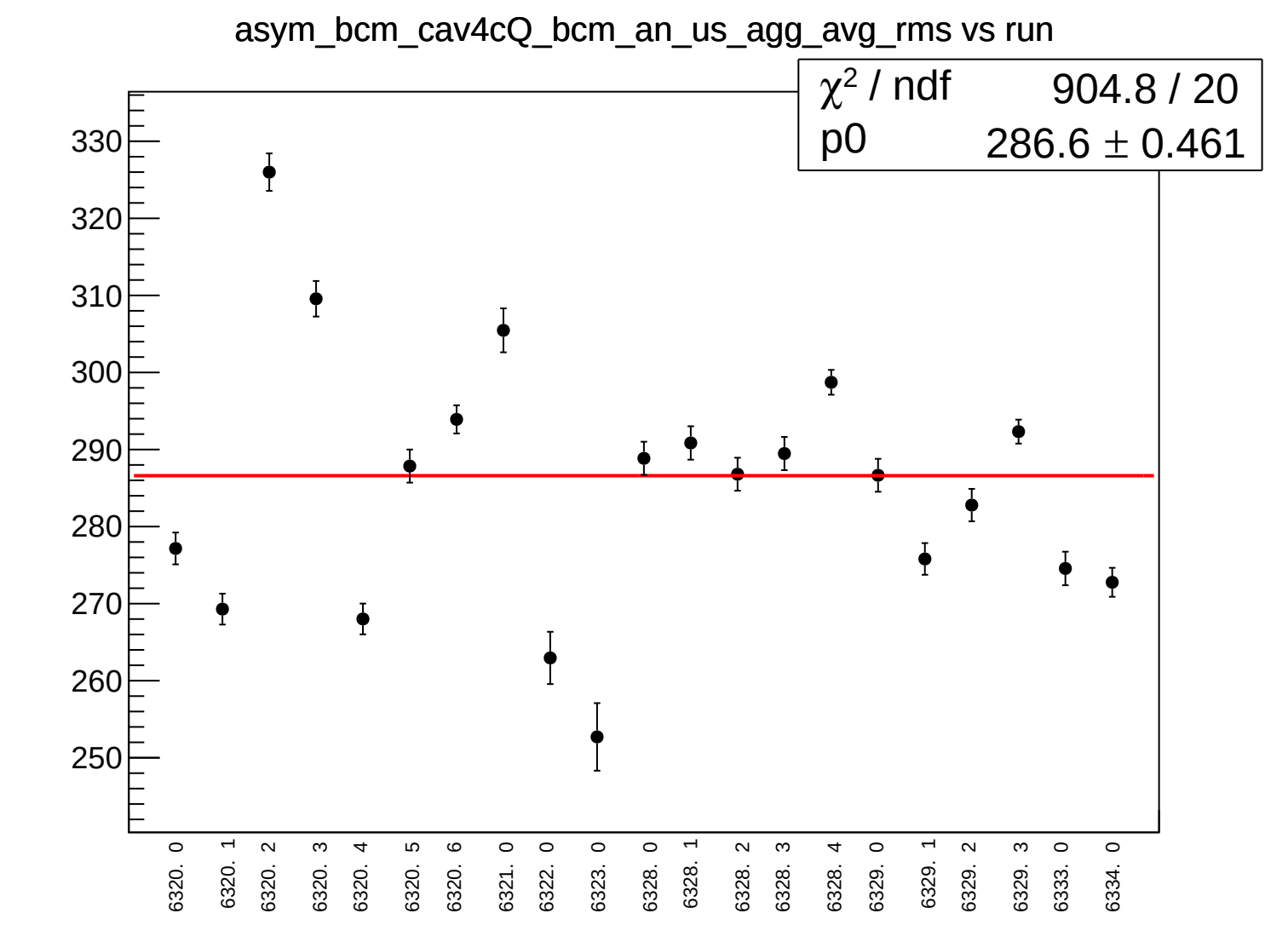

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 738.2 / 20
p0 284.6 ± 0.4576
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 15.23 / 20
p0 −47.32 ± 58.73
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.377
Std Dev 7.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 21
Mean −0.09719
Std Dev 0.846
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 502.6 / 20
p0 25.83 ± 0.04153
29
28
27
26
25
24
23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.176 / 20
p0 384.9 ± 651.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −144.4
Std Dev 155.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.00557
Std Dev 0.3888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 904.8 / 20
p0 286.6 ± 0.461
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
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6328. 4
6329. 0
6329. 1
6329. 2
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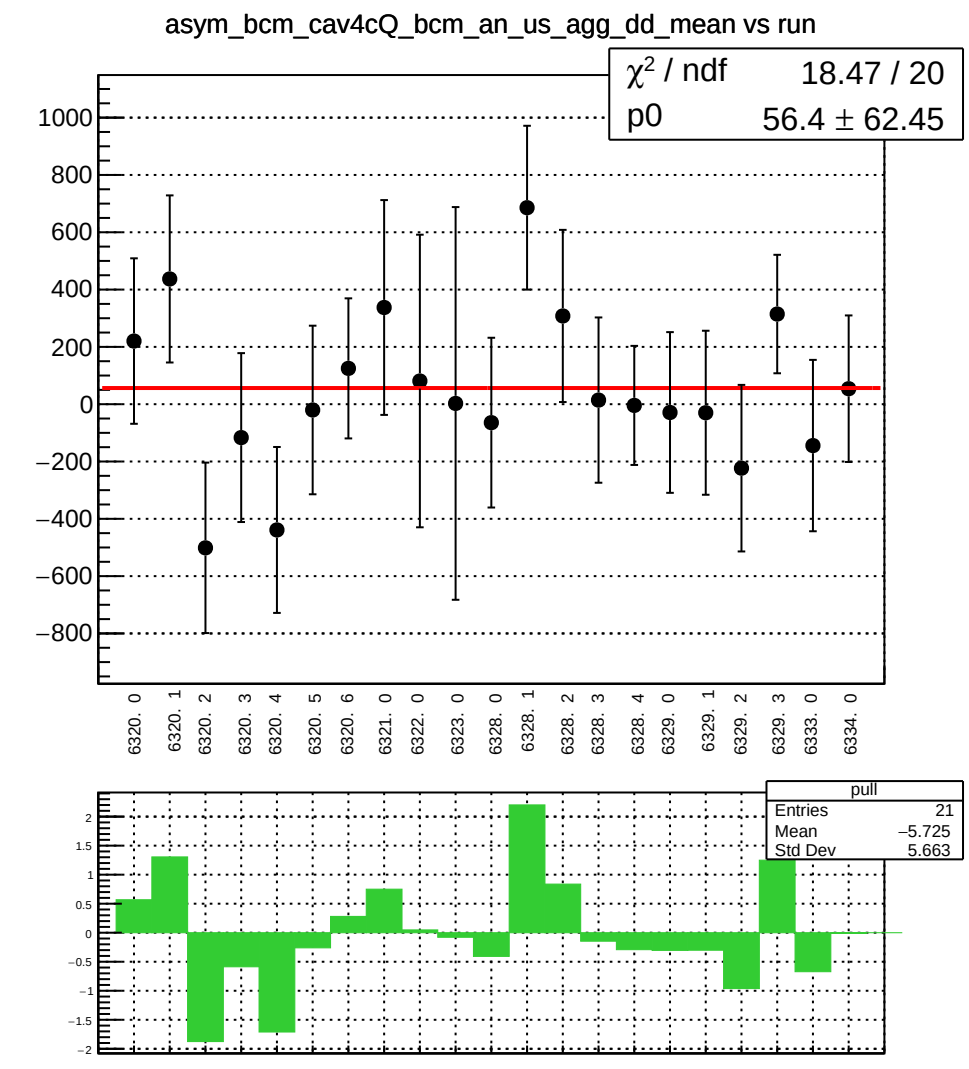
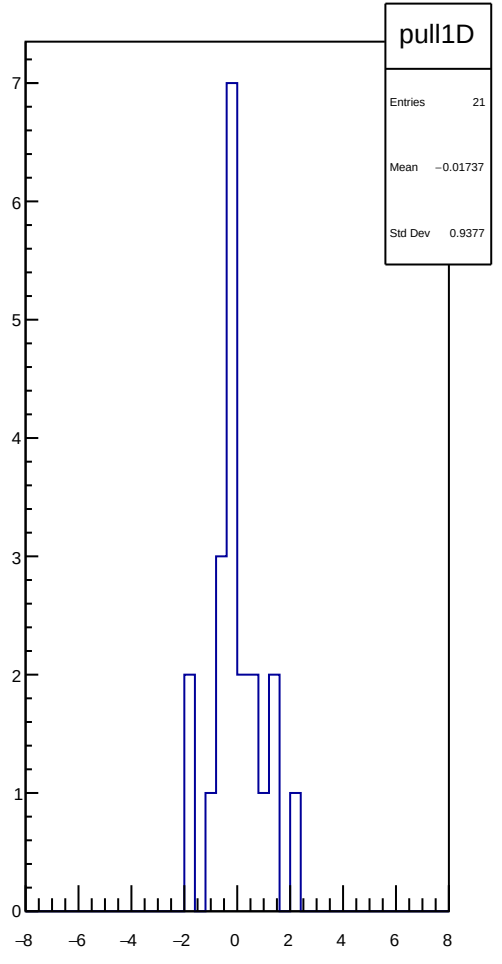
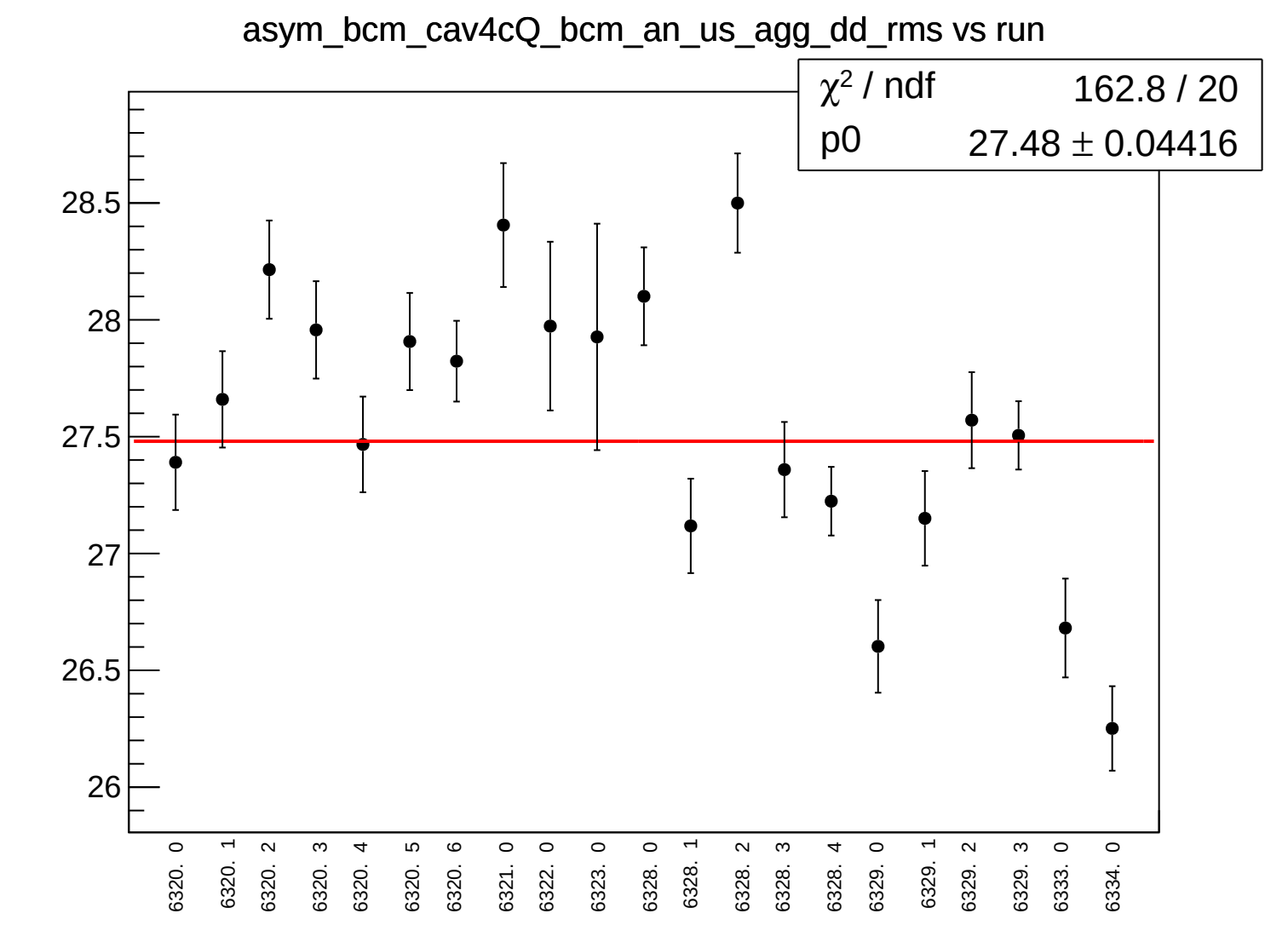
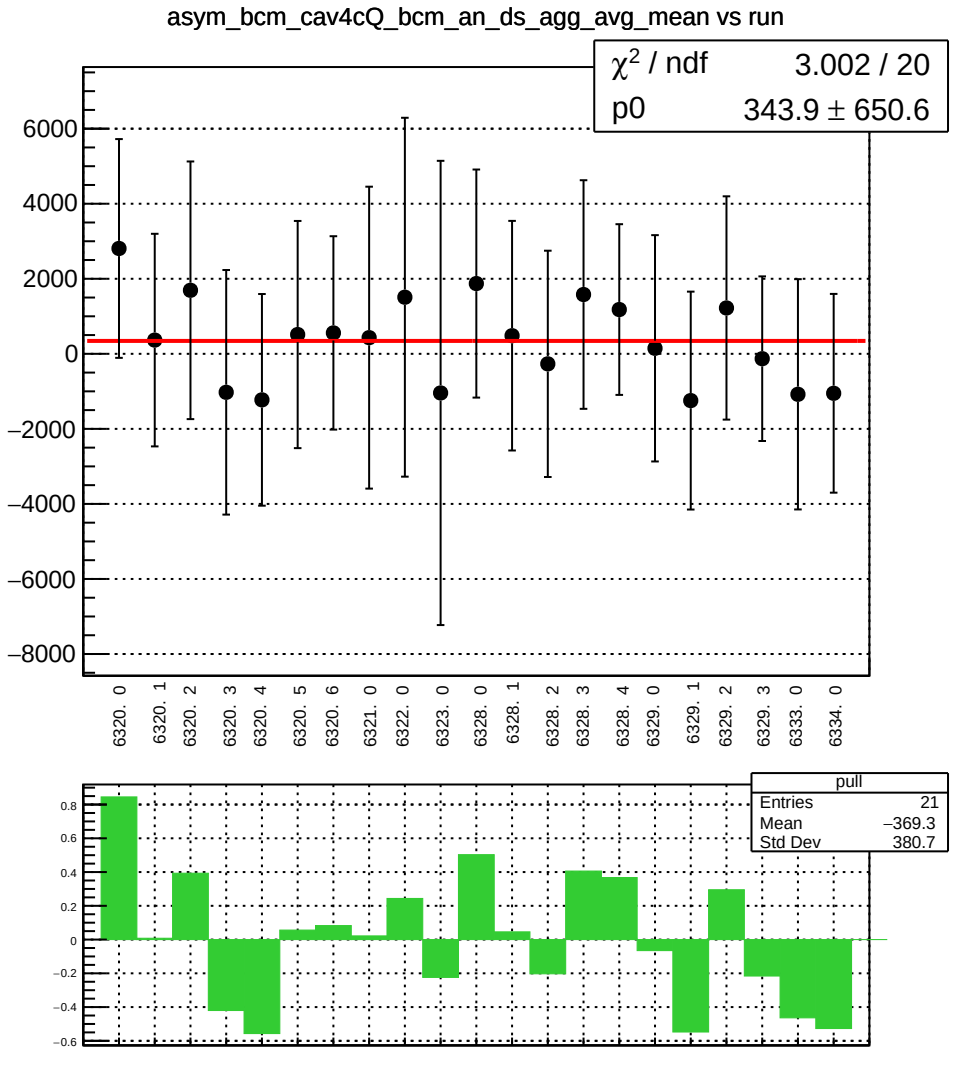
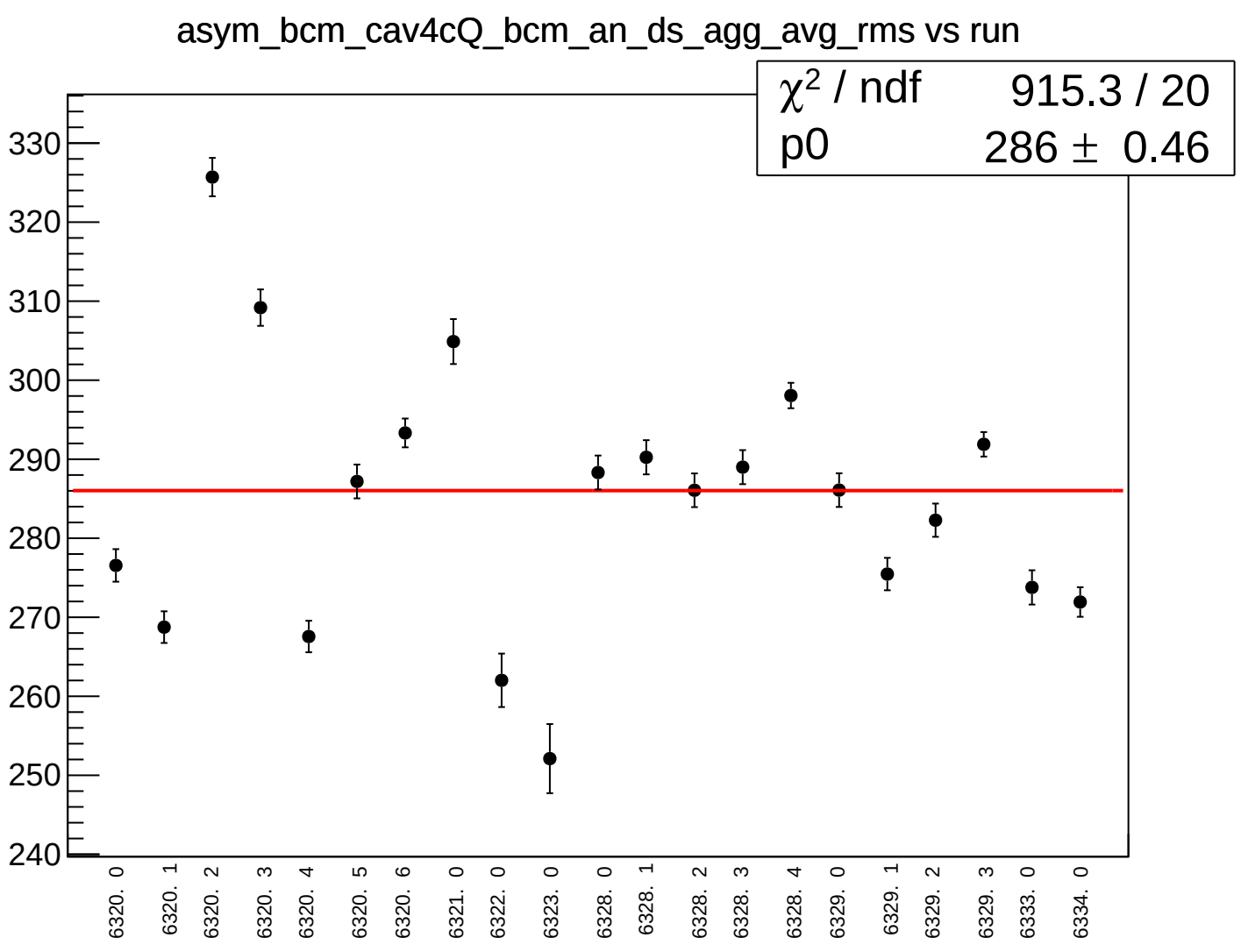
6334. 0

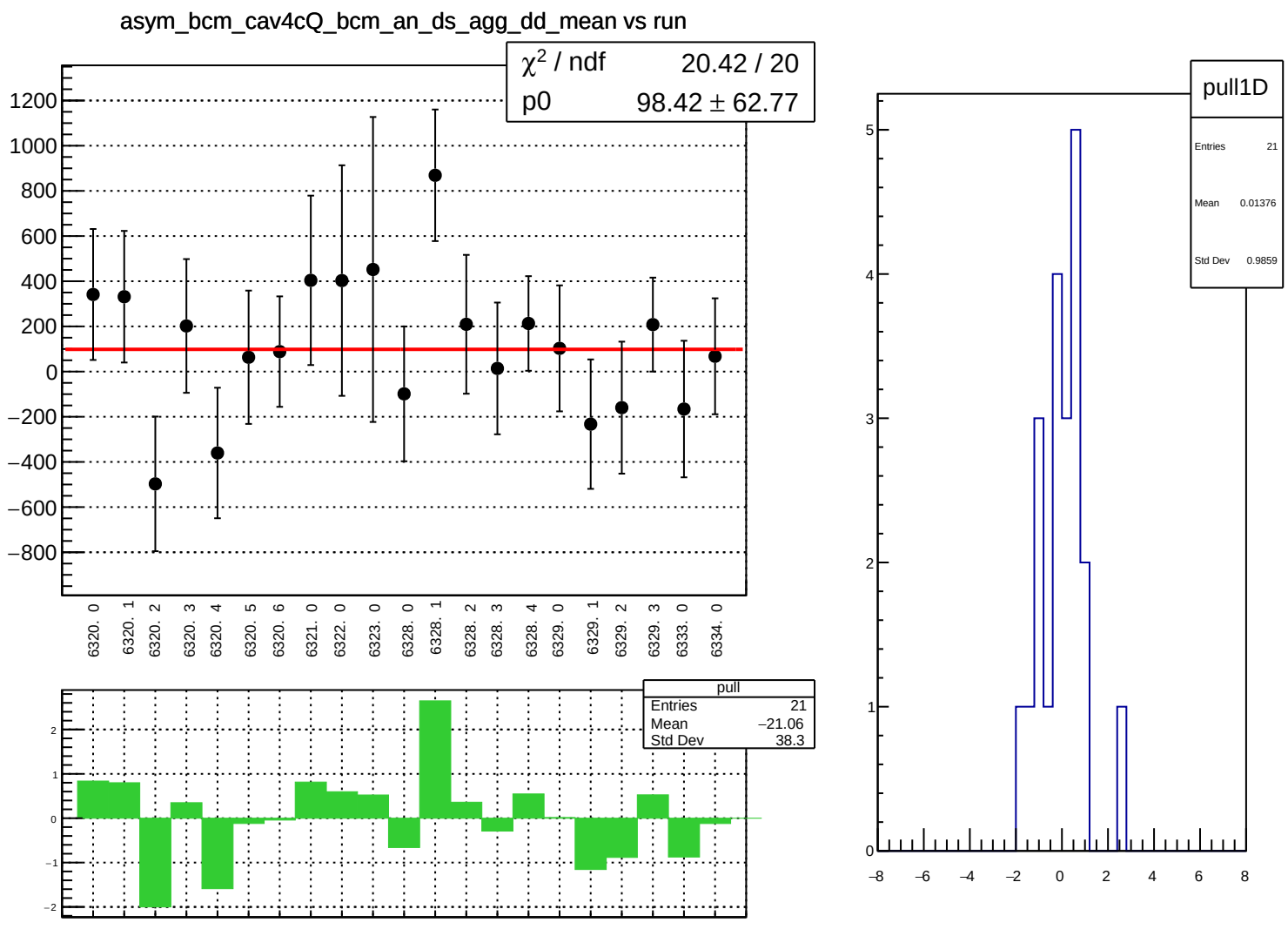

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 18.47 / 20
p0 56.4 ± 62.45
1000
800
600
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.725
Std Dev 5.663
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

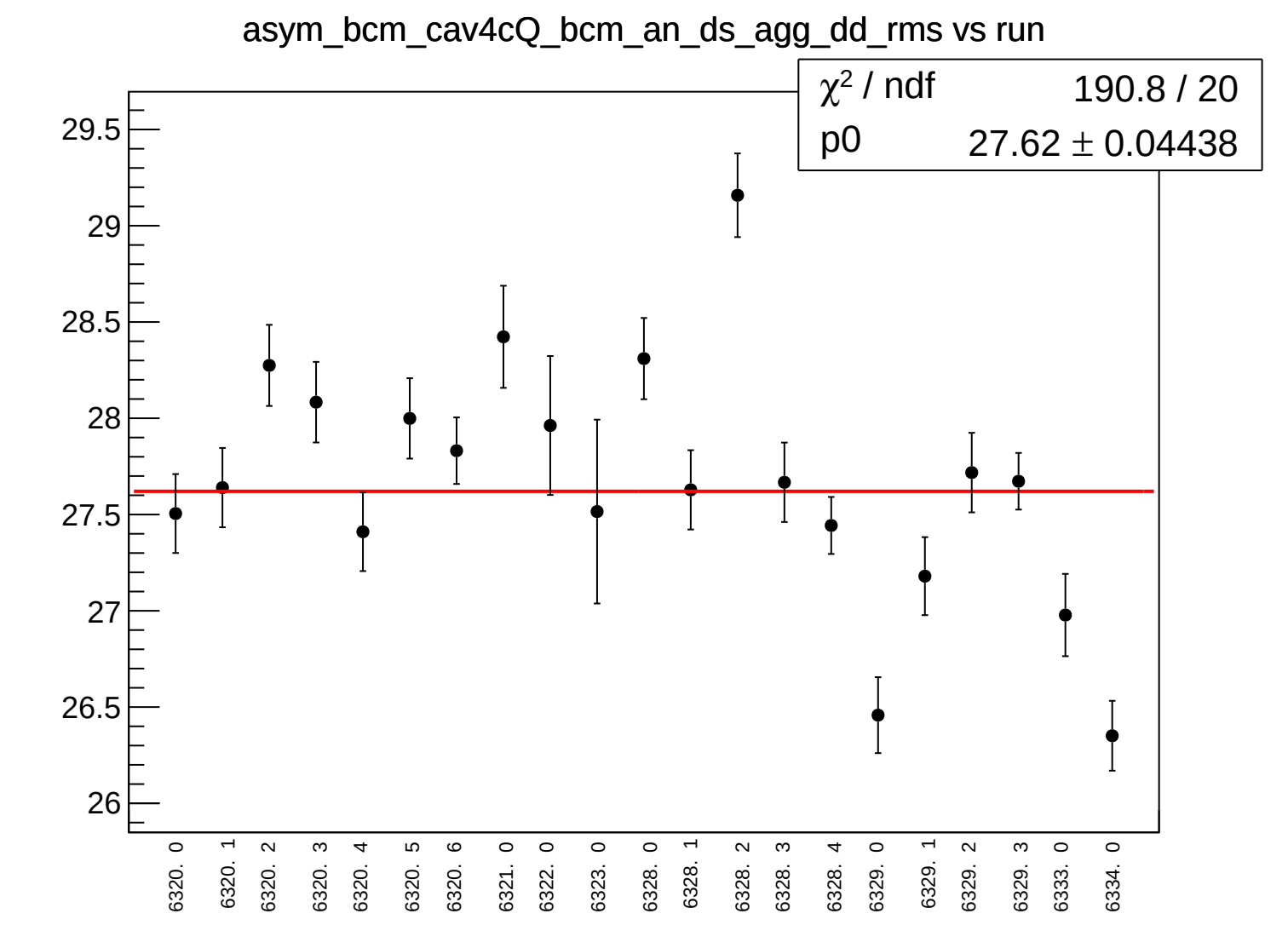

pull1D
Entries 21
Mean −0.01737
Std Dev 0.9377
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

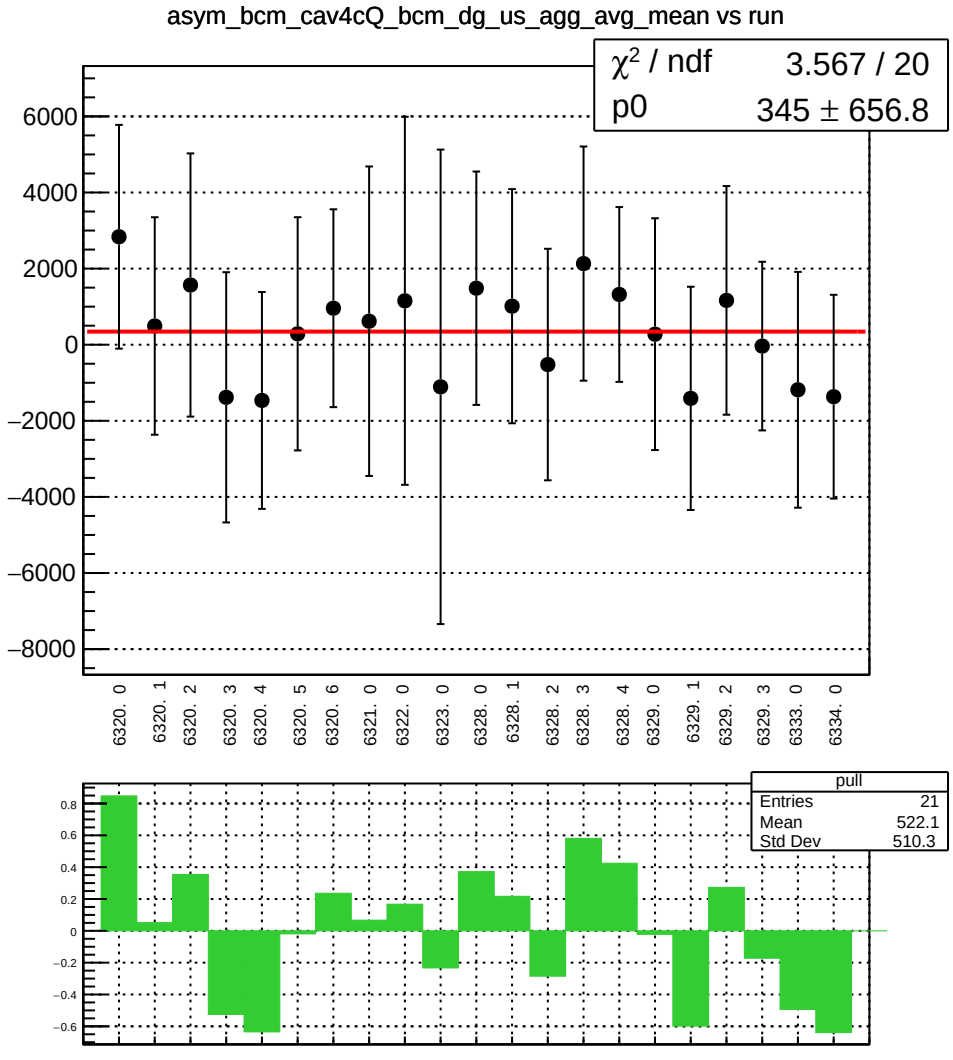

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 162.8 / 20
p0 27.48 ± 0.04416
28.5
28
27.5
27
26.5
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

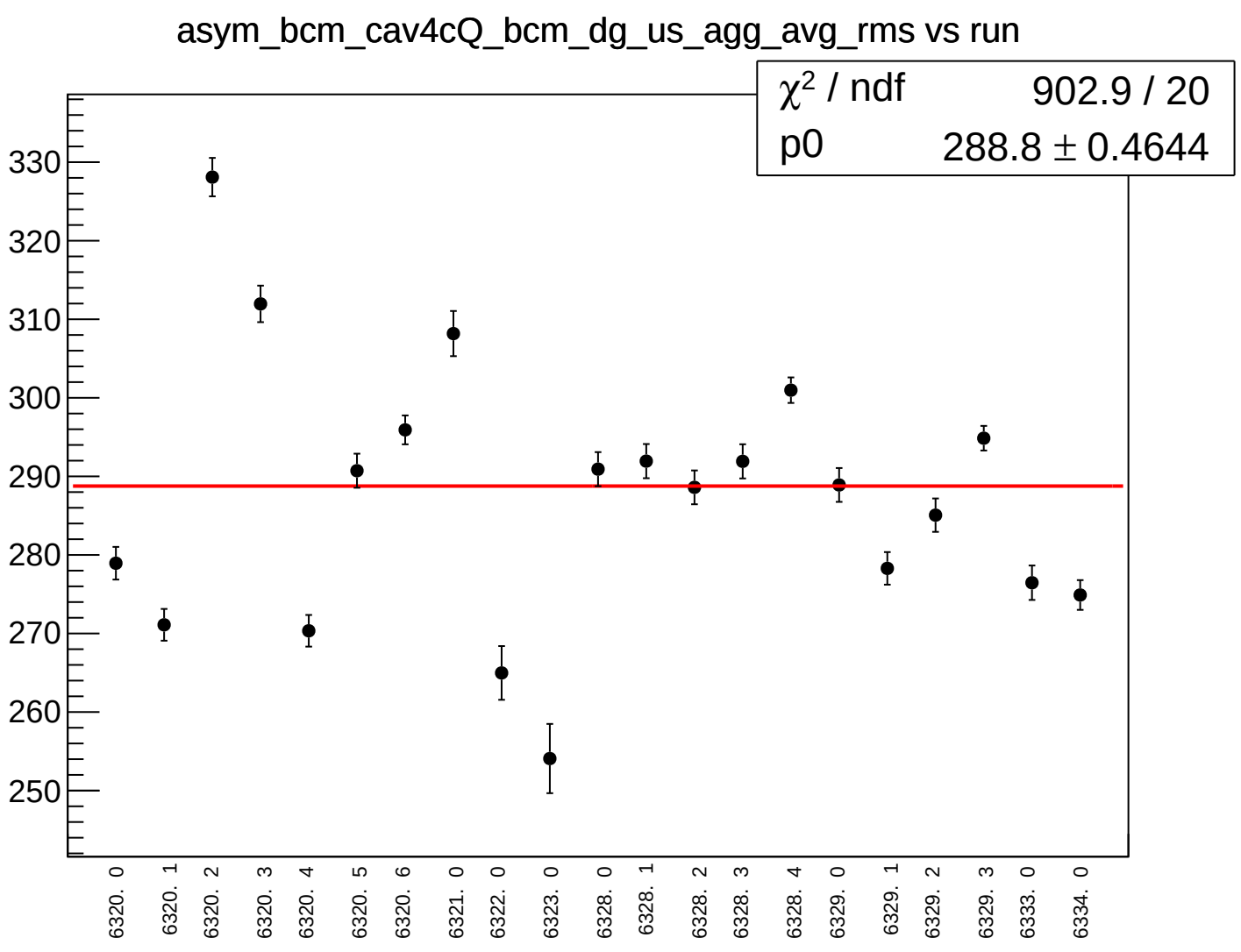

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.002 / 20
p0 343.9 ± 650.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −369.3
Std Dev 380.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.002095
Std Dev 0.3781
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

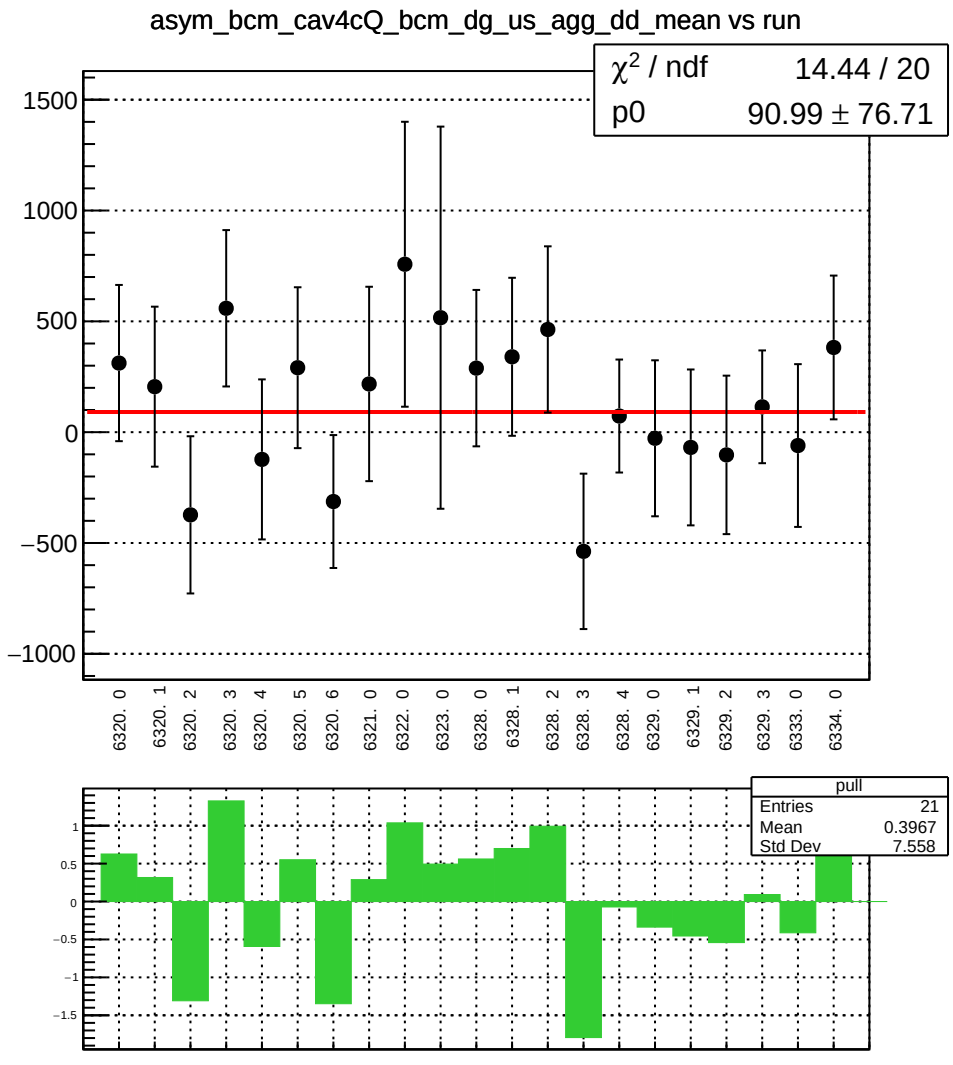

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 915.3 / 20
p0 286 ± 0.46
330
320
310
300
290
280
270
260
250
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

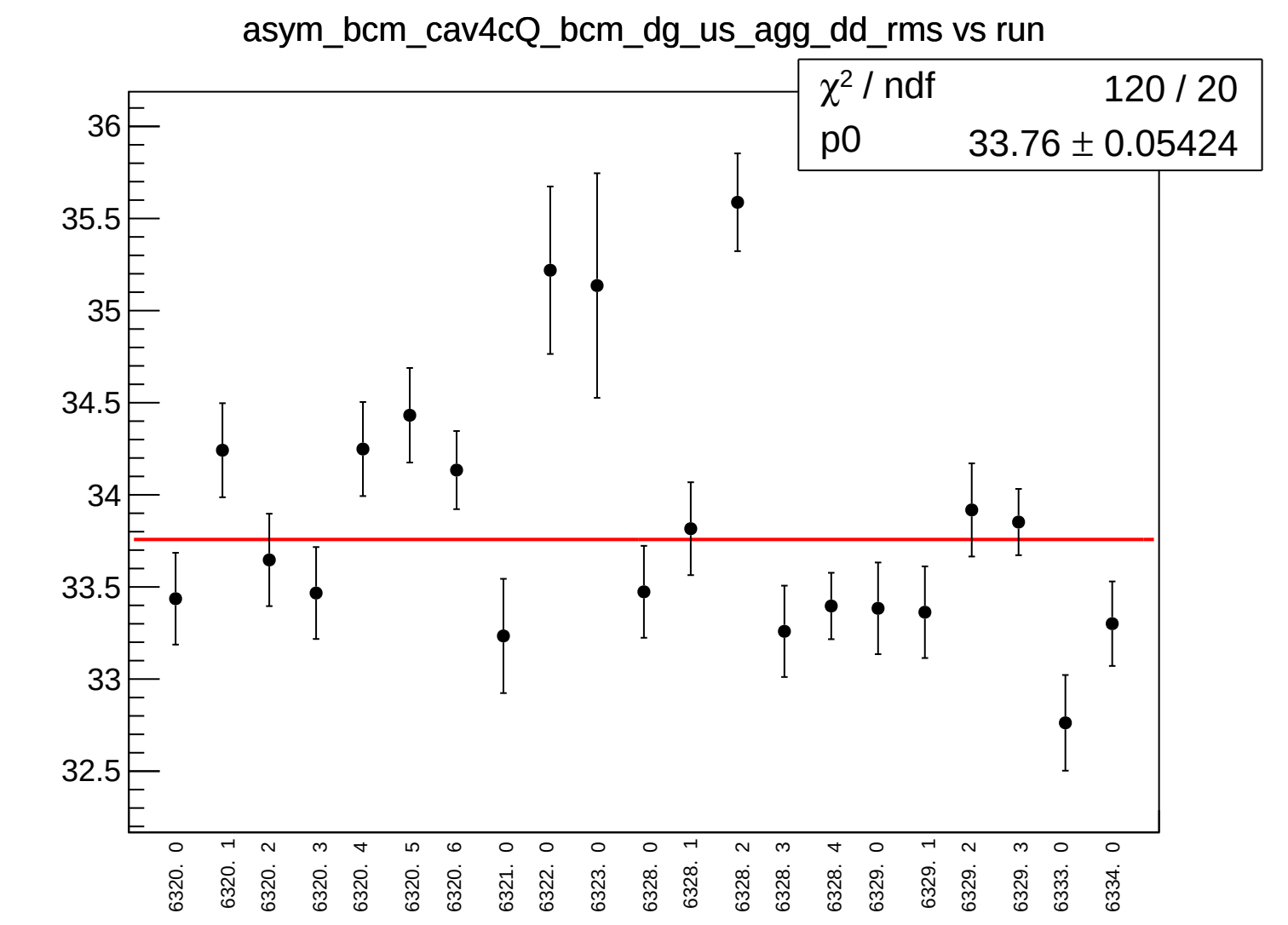

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 20.42 / 20
p0 98.42 ± 62.77
1200
1000
800
600
400
200
0
−200
−400
−600
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.06
Std Dev 38.3
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.01376
Std Dev 0.9859
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

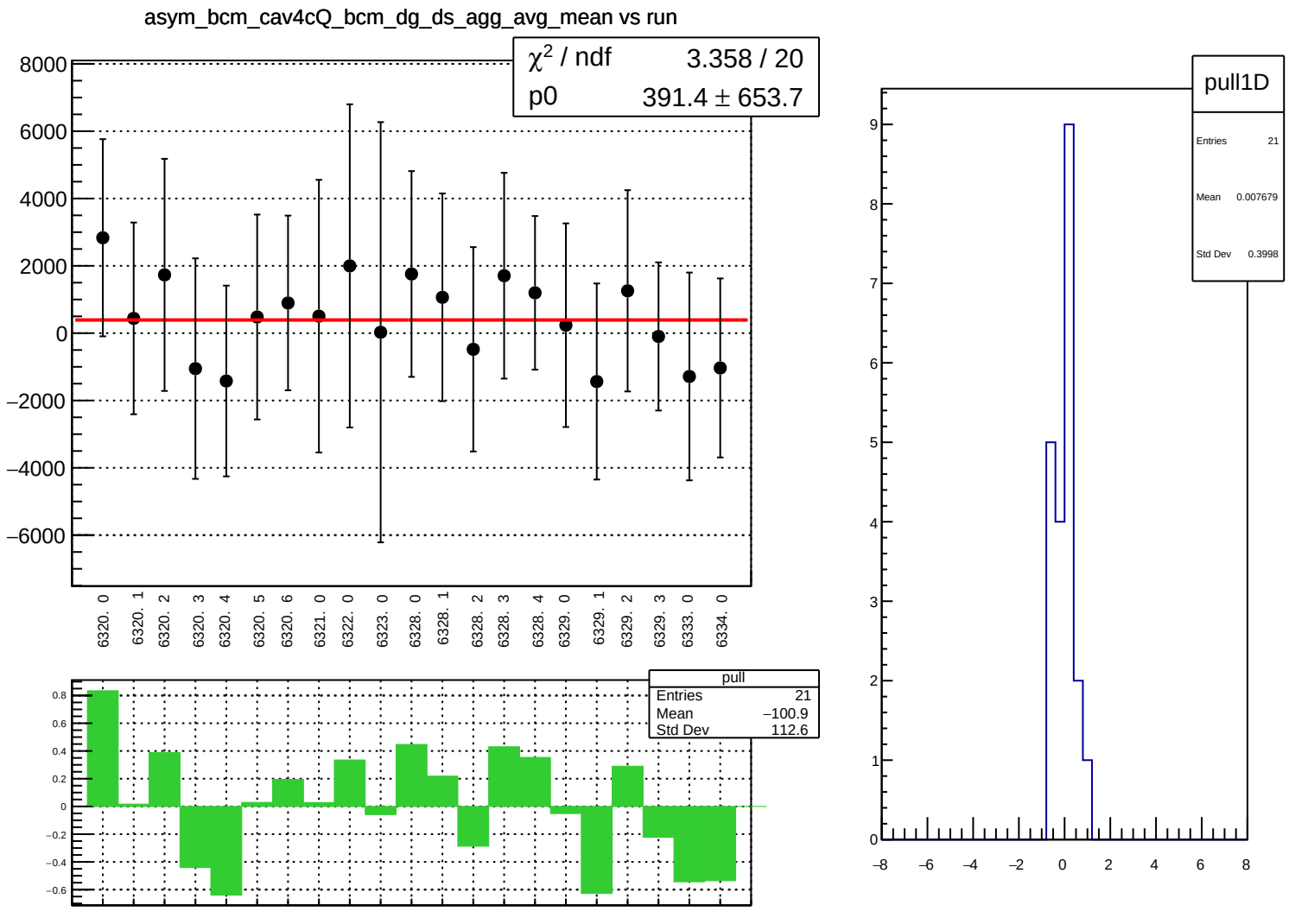

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 190.8 / 20
p0 27.62 ± 0.04438
29.5
29
28.5
28
27.5
27
26.5
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

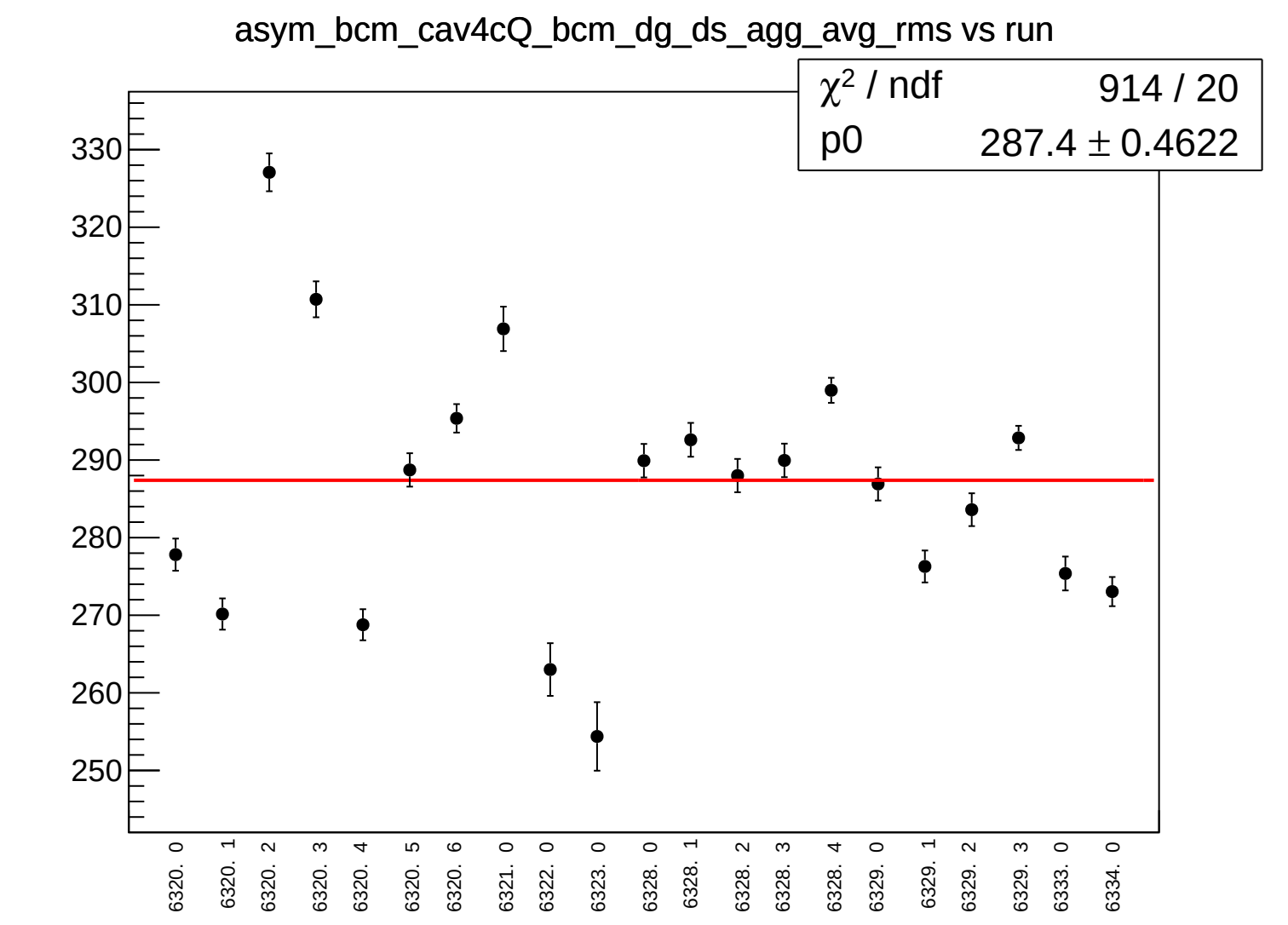

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 3.567 / 20
p0 345 ± 656.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 522.1
Std Dev 510.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.001522
Std Dev 0.4121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

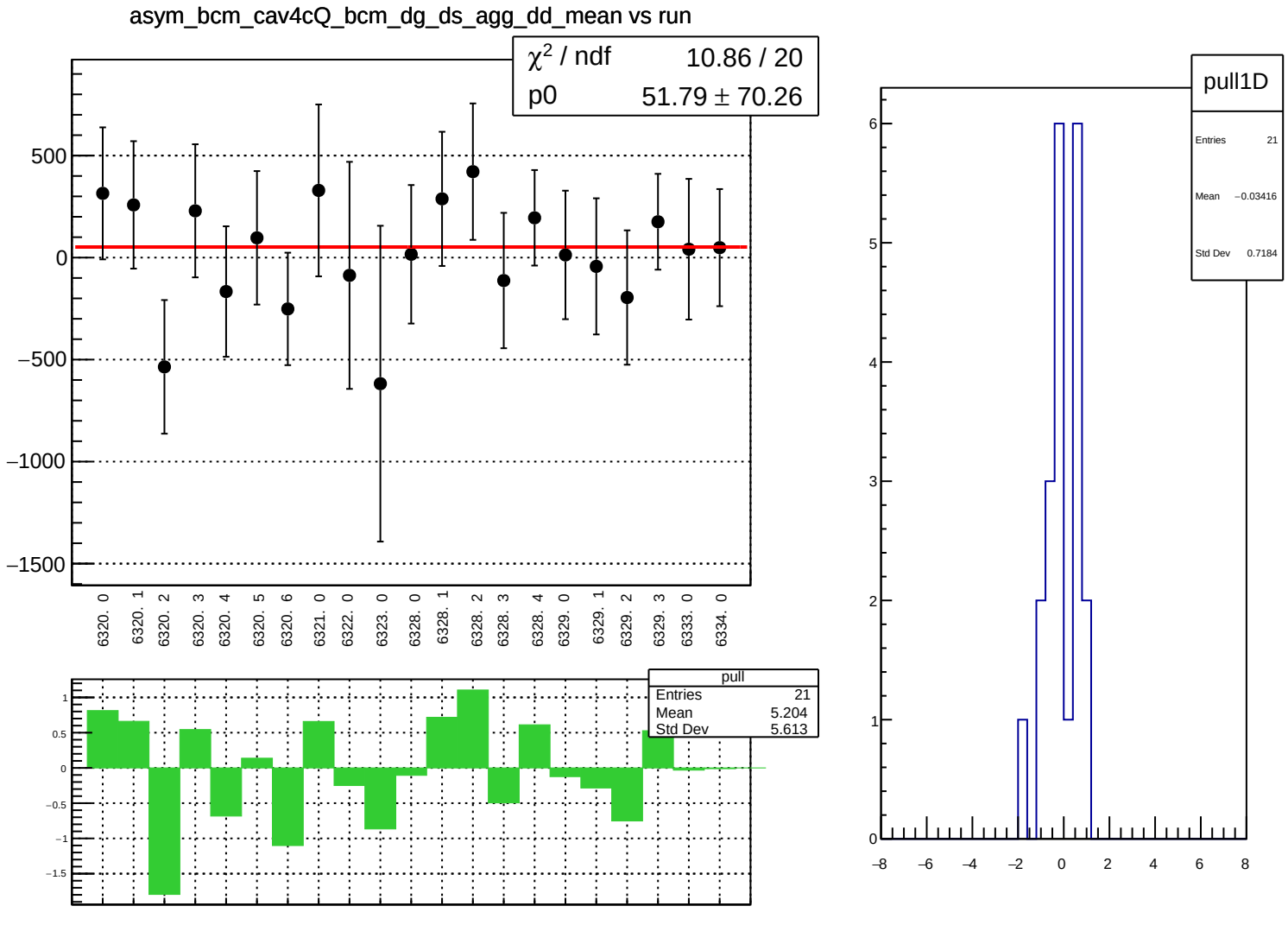

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 902.9 / 20
p0 288.8 ± 0.4644
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

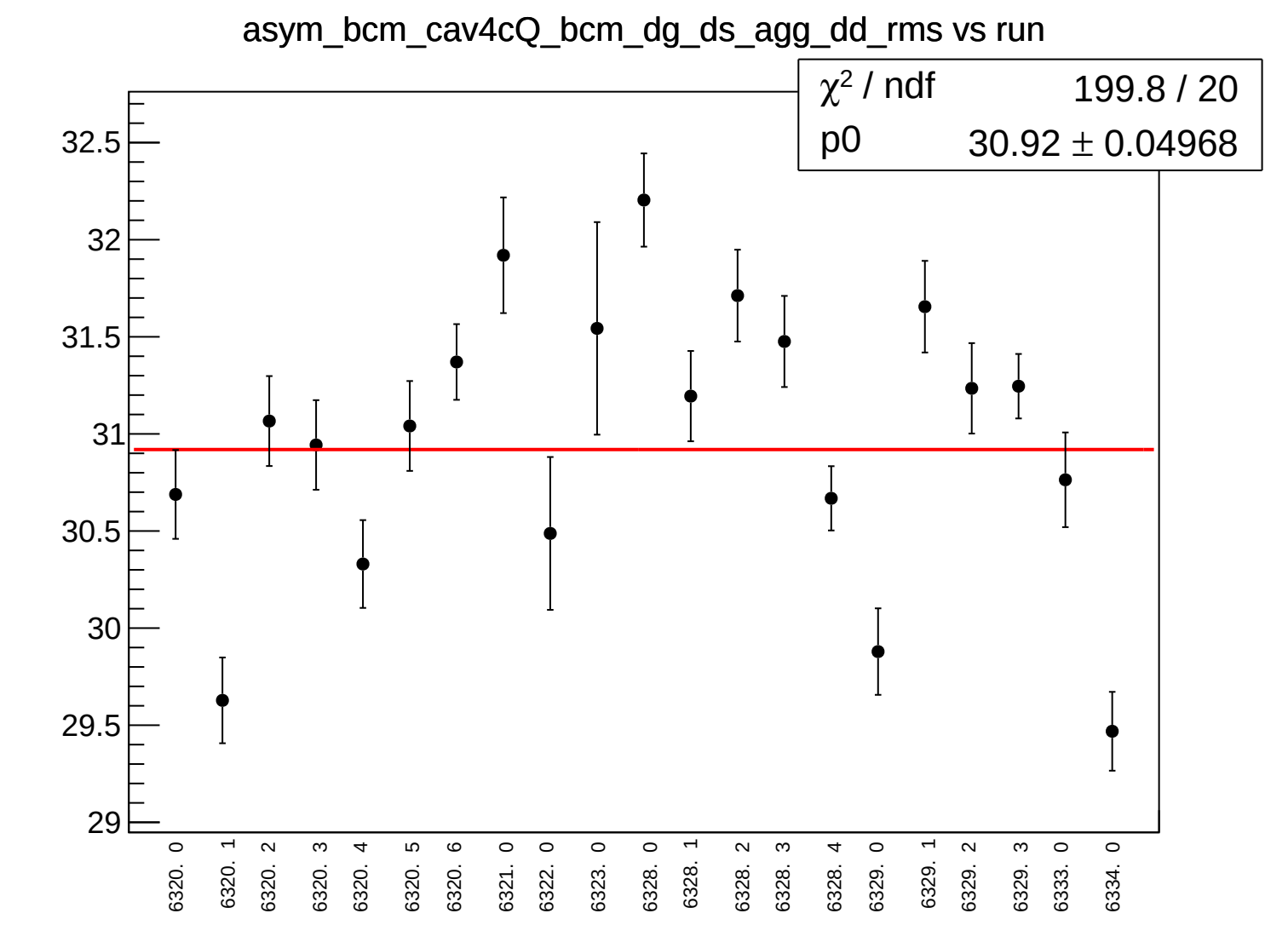

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 14.44 / 20
p0 90.99 ± 76.71
1500
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.3967
Std Dev 7.558
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.0488
Std Dev 0.8279
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

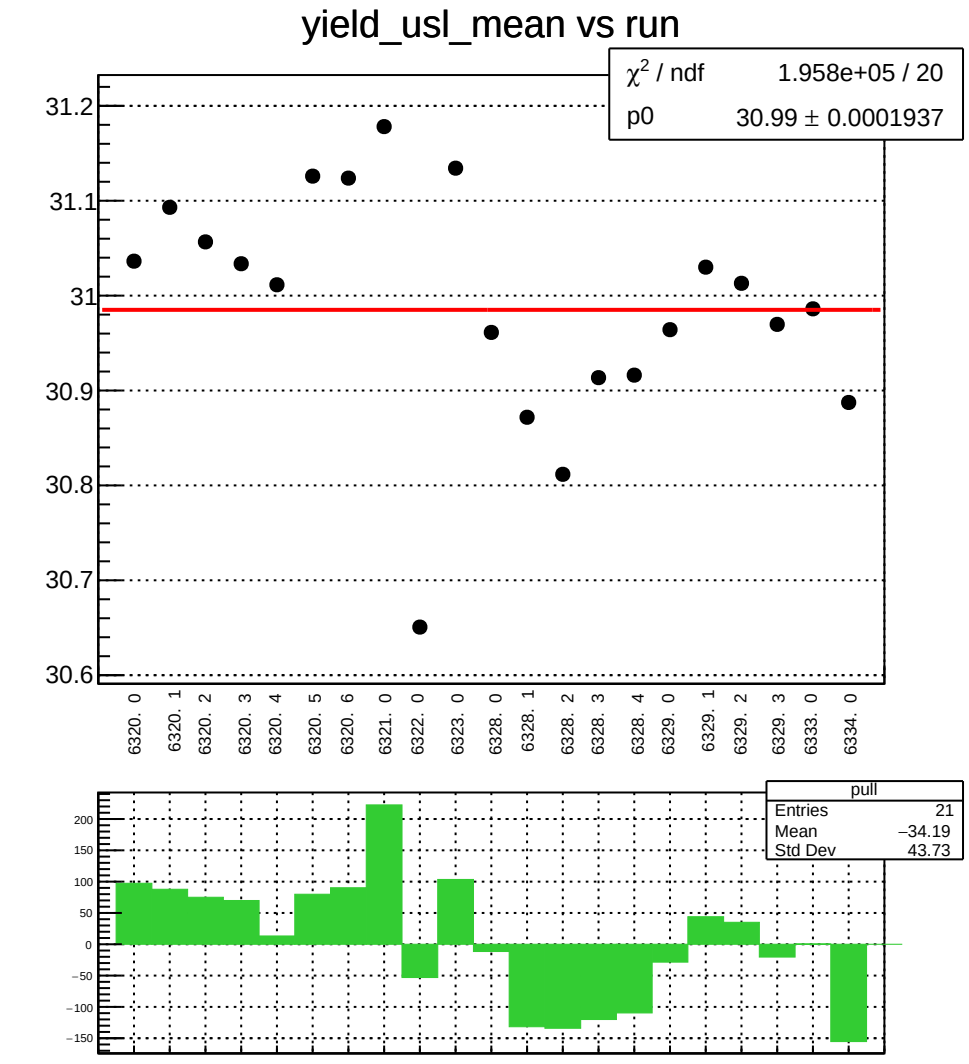

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 120 / 20
p0 33.76 ± 0.05424
36
35.5
35
34.5
34
33.5
33
32.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

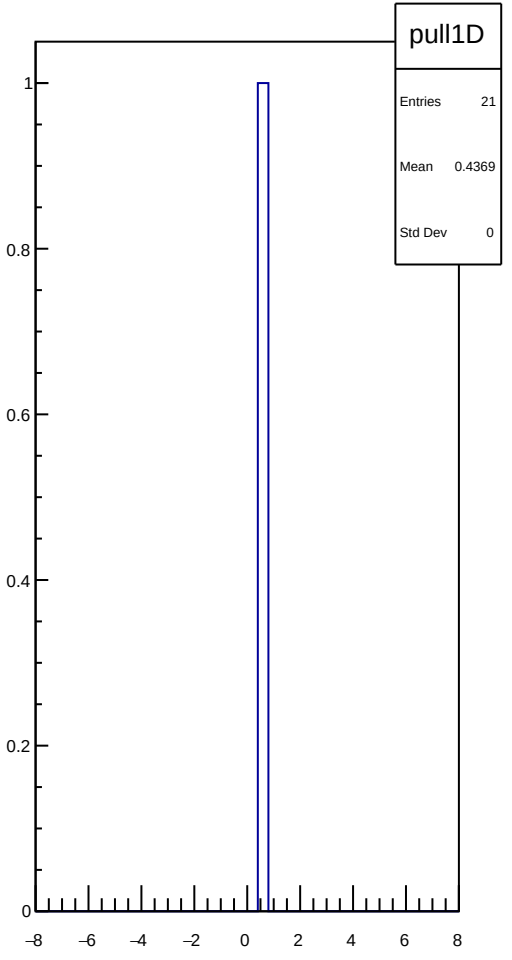

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.358 / 20
p0 391.4 ± 653.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −100.9
Std Dev 112.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.007679
Std Dev 0.3998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

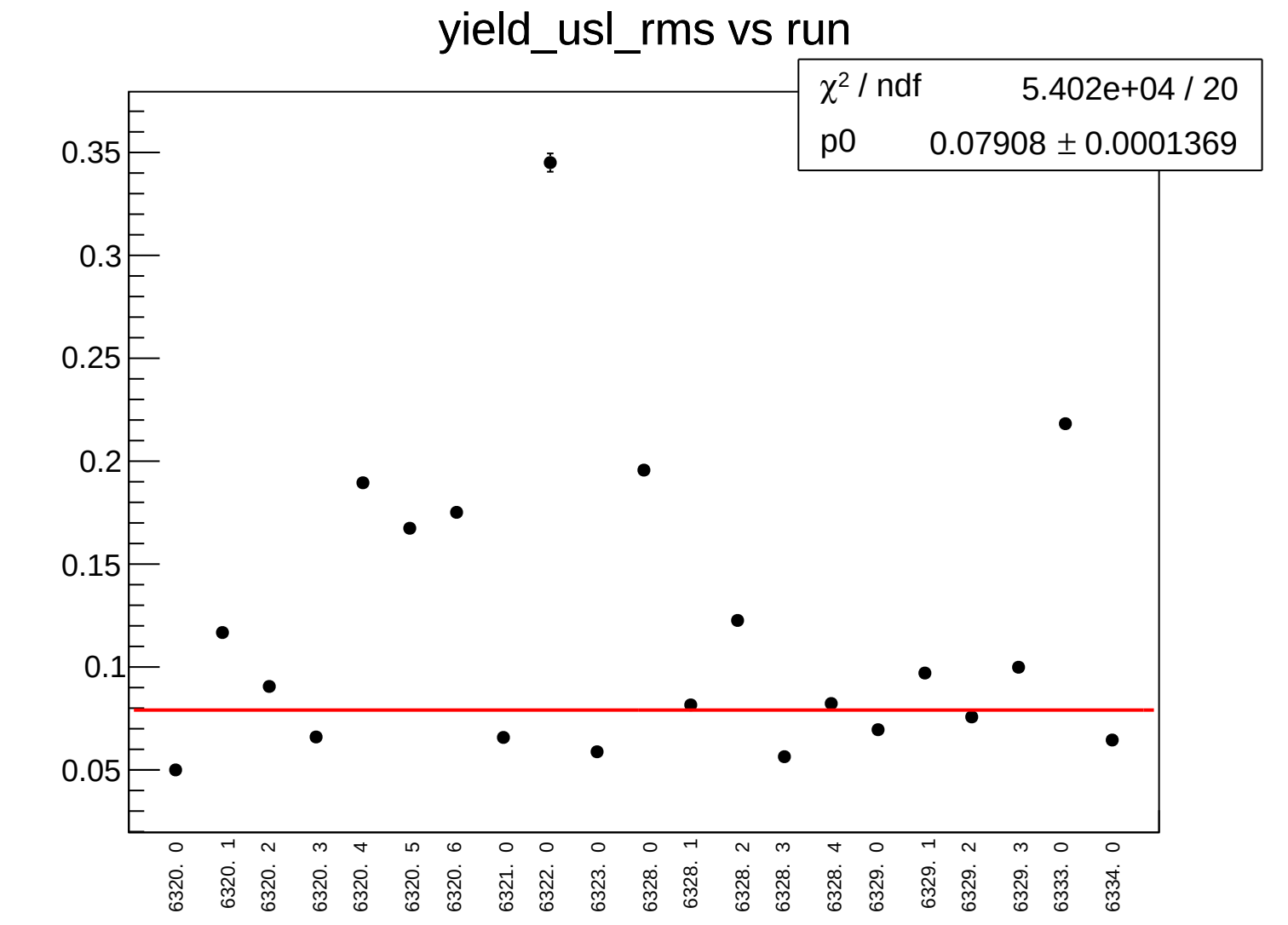

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 914 / 20
p0 287.4 ± 0.4622
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

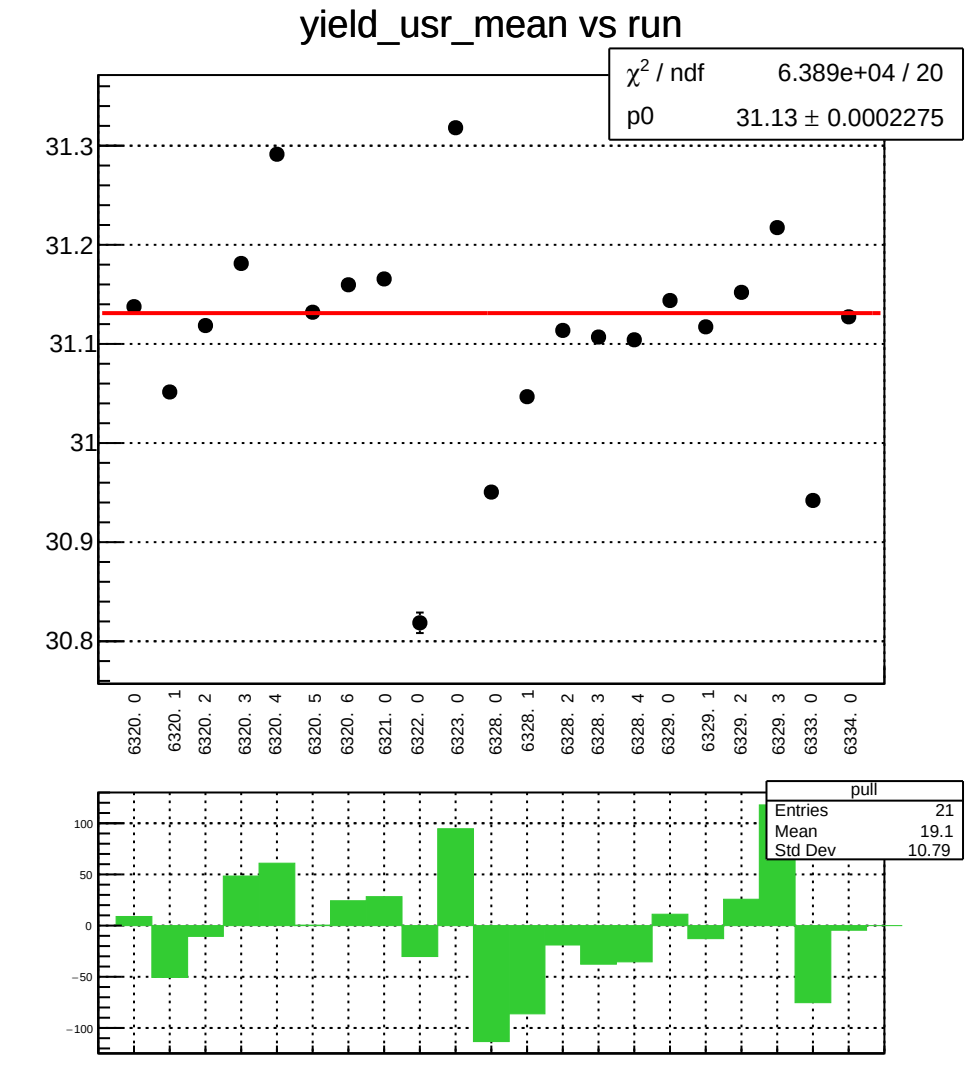

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 10.86 / 20
p0 51.79 ± 70.26
500
0
−500
−1000
−1500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.204
Std Dev 5.613
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.03416
Std Dev 0.7184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

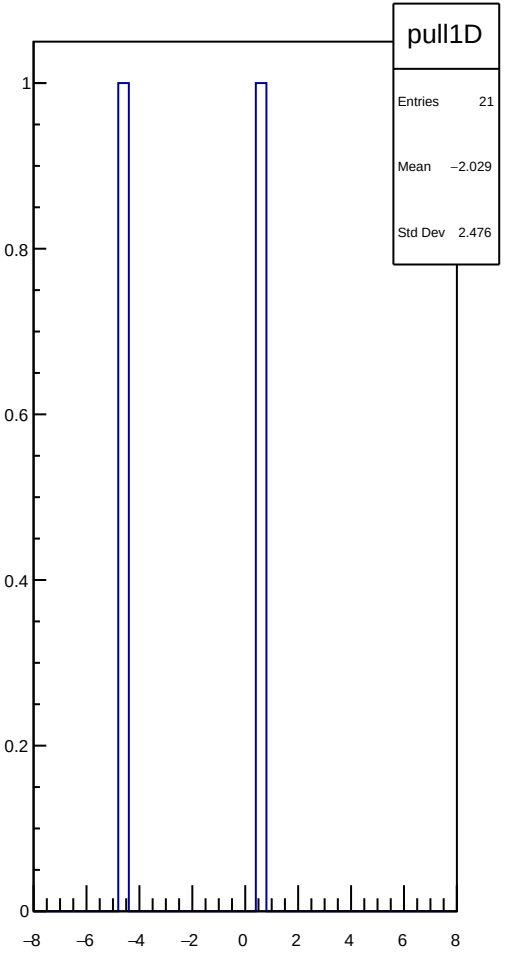

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 199.8 / 20
p0 30.92 ± 0.04968
32.5
32
31.5
31
30.5
30
29.5
29
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

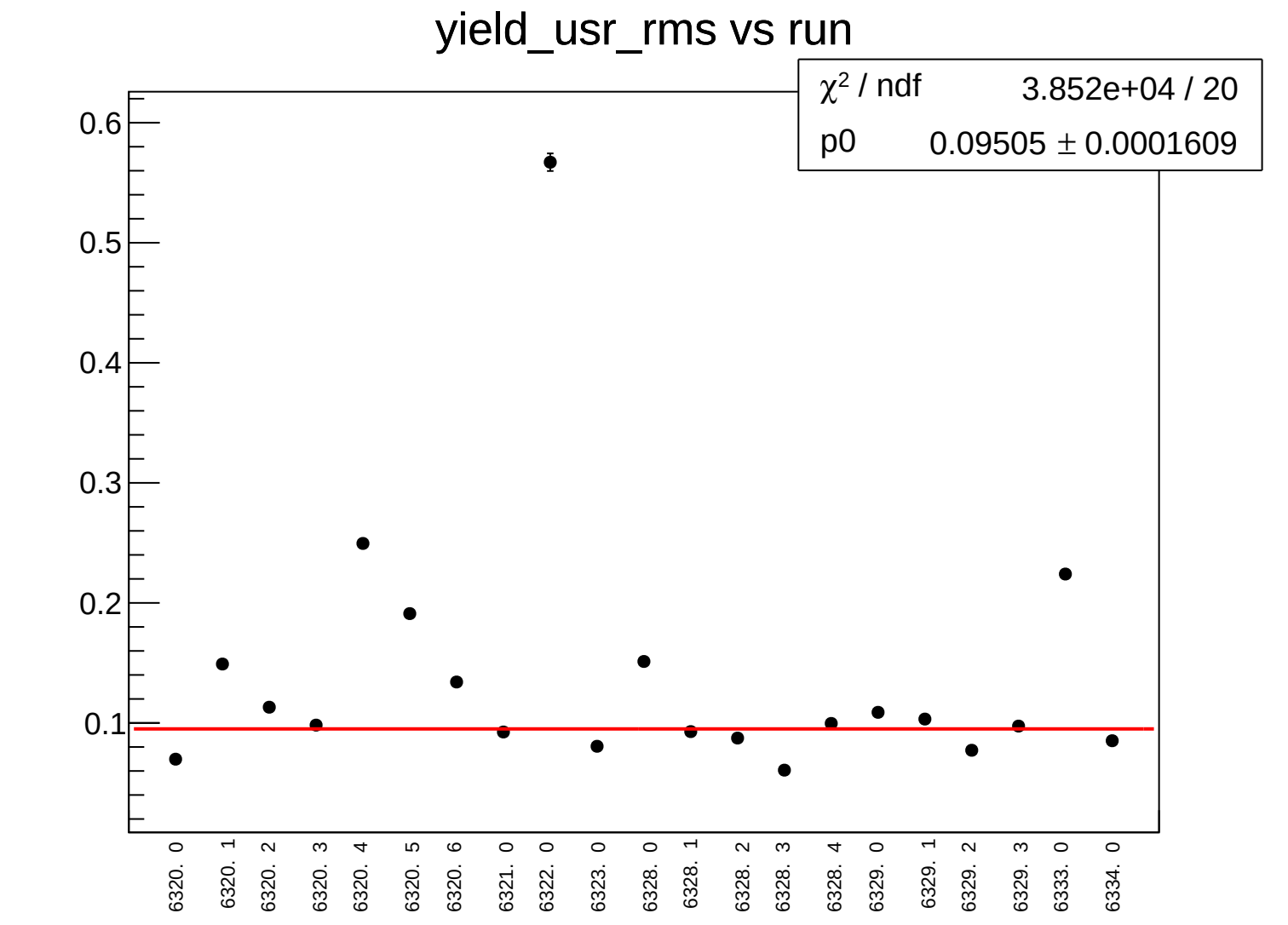

yield_usl_mean vs run
χ² / ndf 1.958e+05 / 20
p0 30.99 ± 0.0001937
31.2
31.1
31
30.9
30.8
30.7
30.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −34.19
Std Dev 43.73
200
150
100
50
0
−50
−100
−150

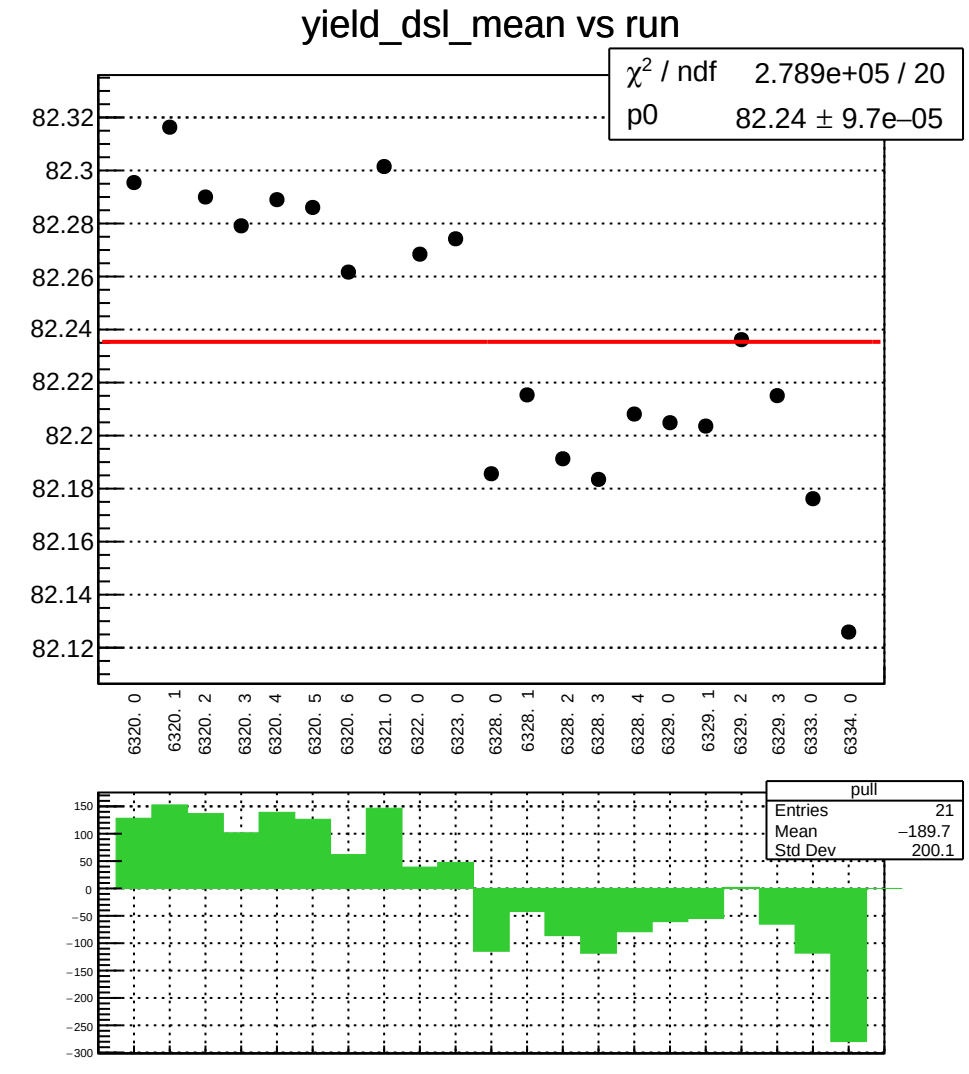

pull1D
Entries 21
Mean 0.4369
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

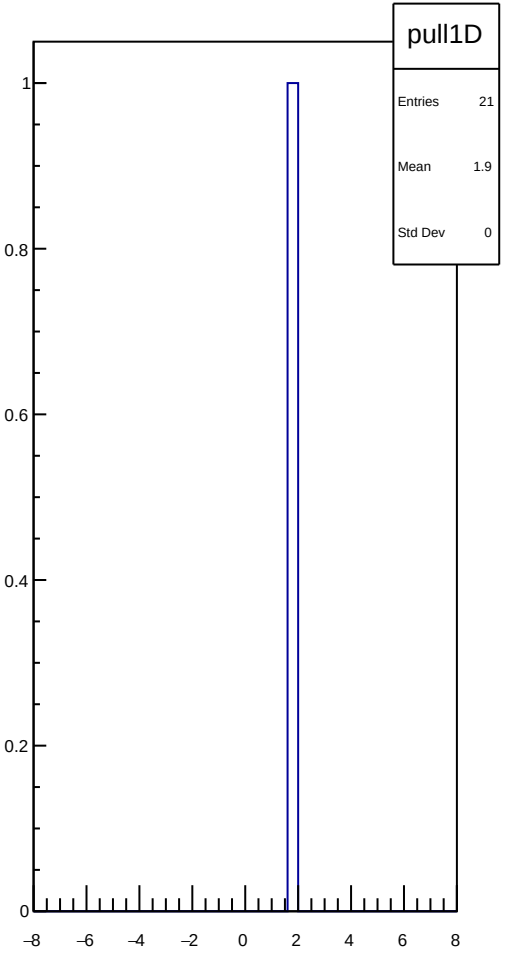

yield_usl_rms vs run
χ² / ndf 5.402e+04 / 20
p0 0.07908 ± 0.0001369
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

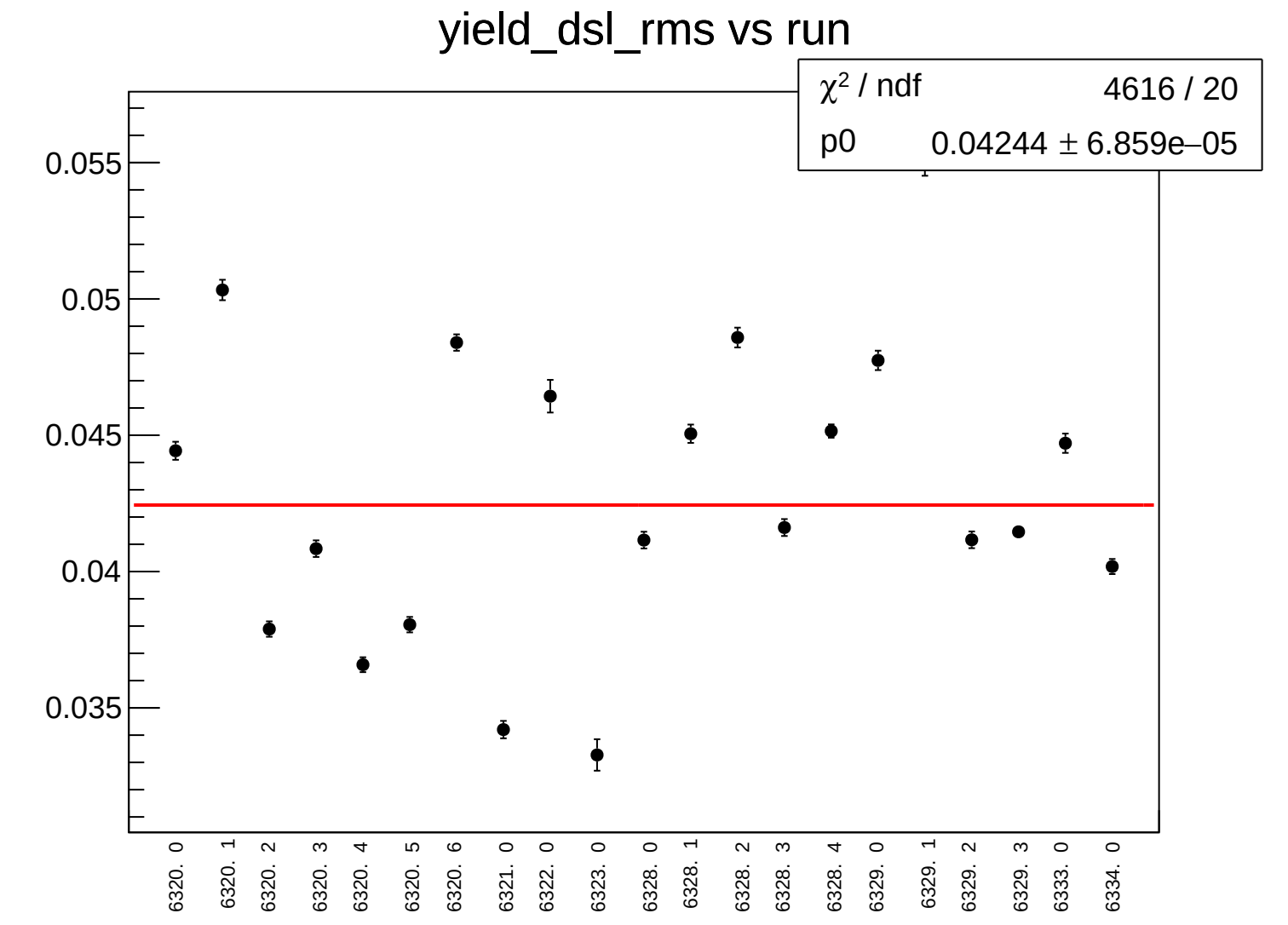

yield_usr_mean vs run
χ² / ndf 6.389e+04 / 20
p0 31.13 ± 0.0002275
31.3
31.2
31.1
31
30.9
30.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 19.1
Std Dev 10.79
100
50
0
−50
−100

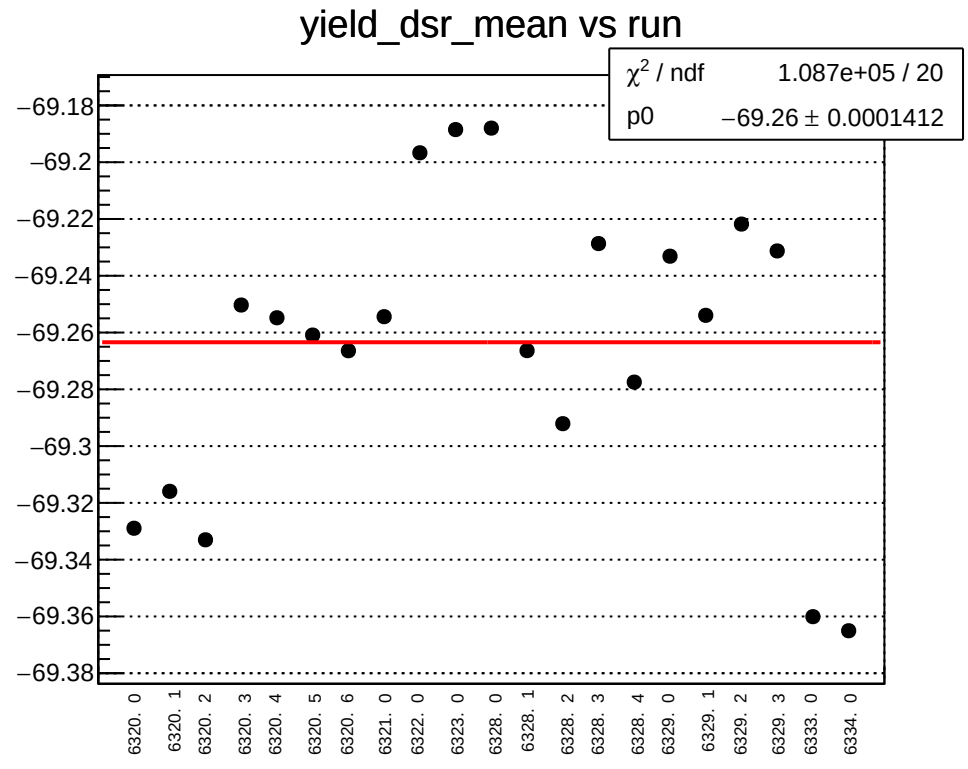

pull1D
Entries 21
Mean −2.029
Std Dev 2.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

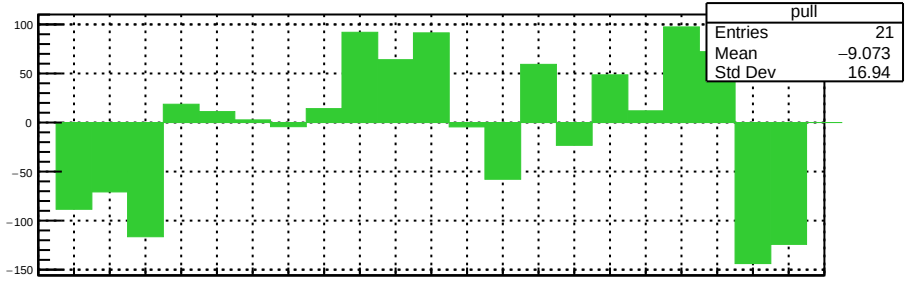

yield_usr_rms vs run
χ² / ndf 3.852e+04 / 20
p0 0.09505 ± 0.0001609
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

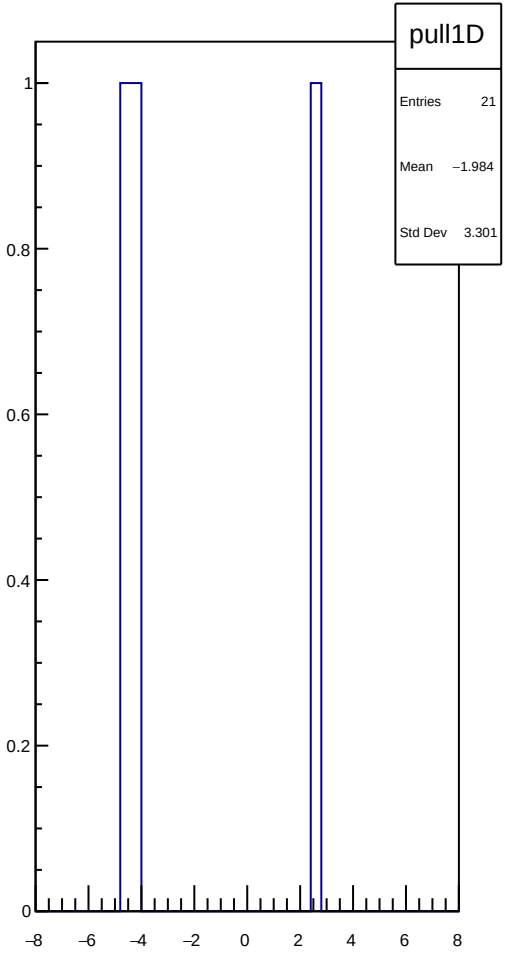

yield_dsl_mean vs run
χ² / ndf 2.789e+05 / 20
p0 82.24 ± 9.7e–05
82.32
82.3
82.28
82.26
82.24
82.22
82.2
82.18
82.16
82.14
82.12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean –189.7
Std Dev 200.1
150
100
50
0
–50
–100
–150
–200
–250
–300

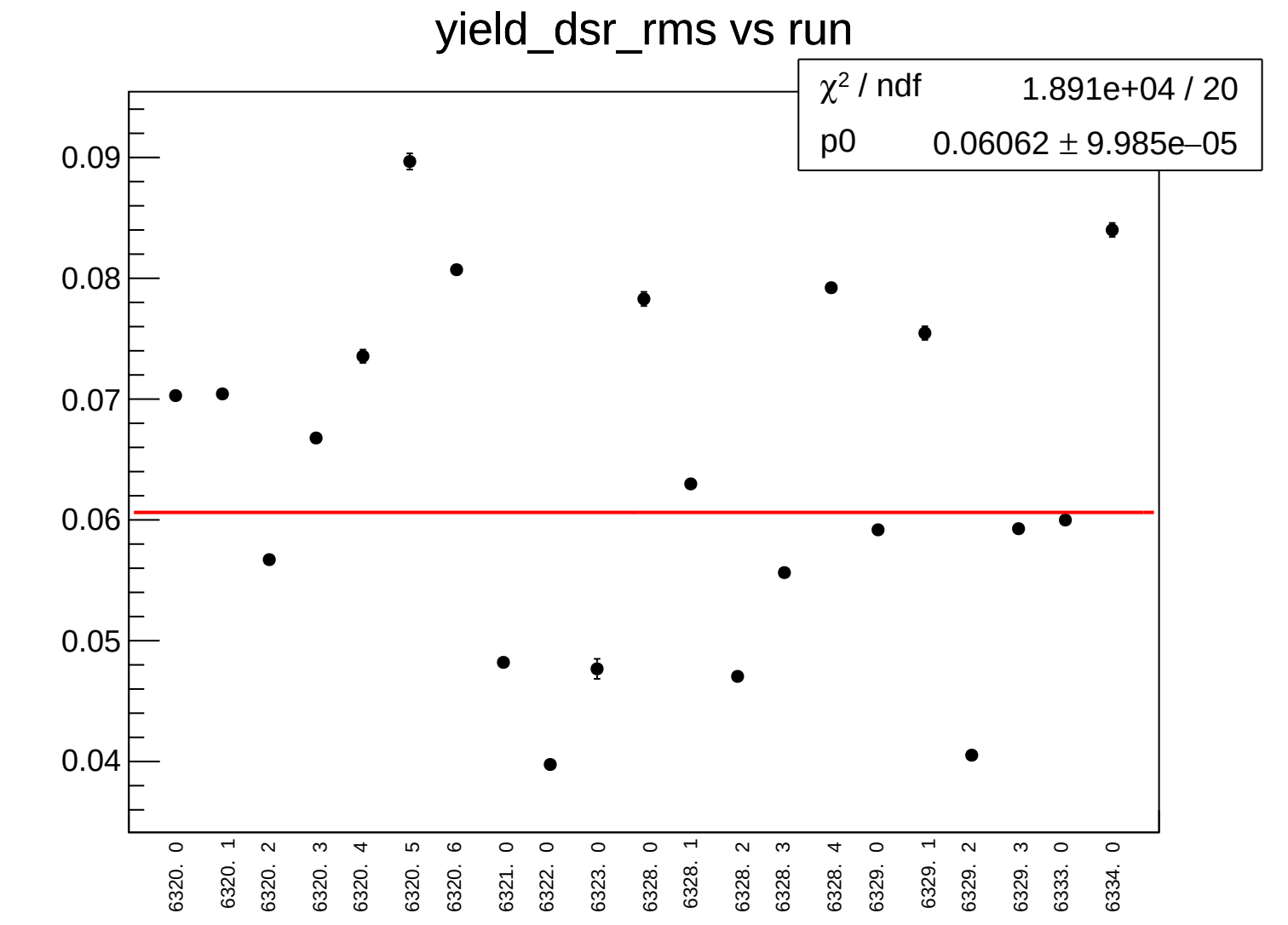

pull1D
Entries 21
Mean 1.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

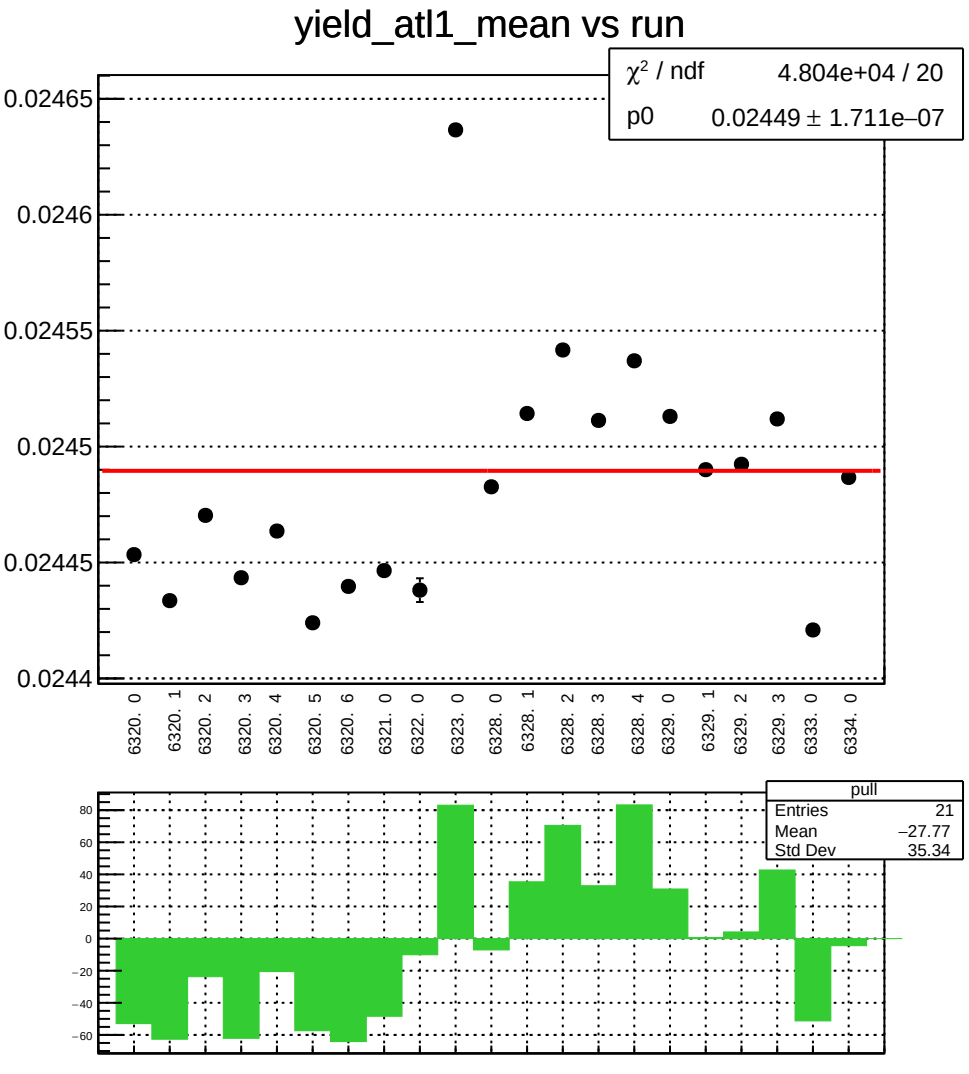

yield_dsl_rms vs run
χ² / ndf 4616 / 20
p0 0.04244 ± 6.859e−05
0.055
0.05
0.045
0.04
0.035
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

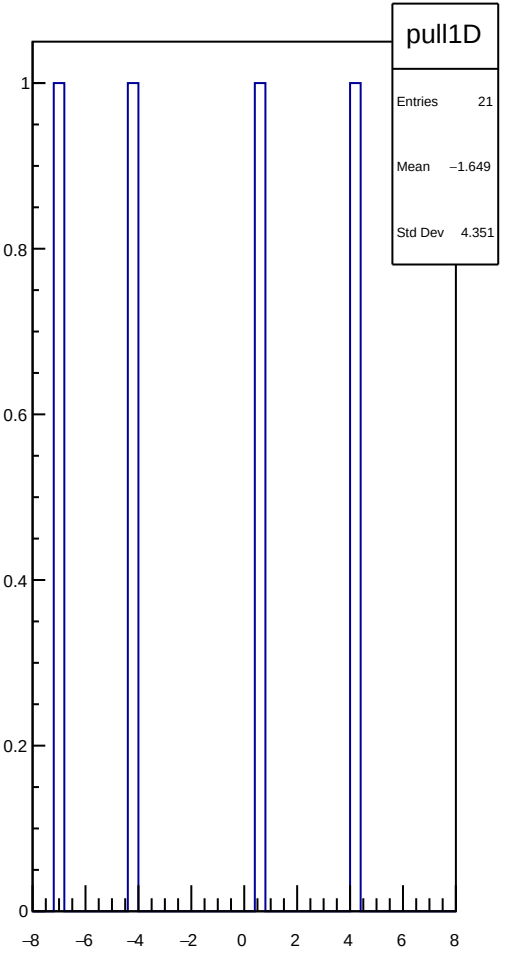

yield_dsr_mean vs run
χ² / ndf 1.087e+05 / 20
p0 −69.26 ± 0.0001412
−69.18
−69.2
−69.22
−69.24
−69.26
−69.28
−69.3
−69.32
−69.34
−69.36
−69.38
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

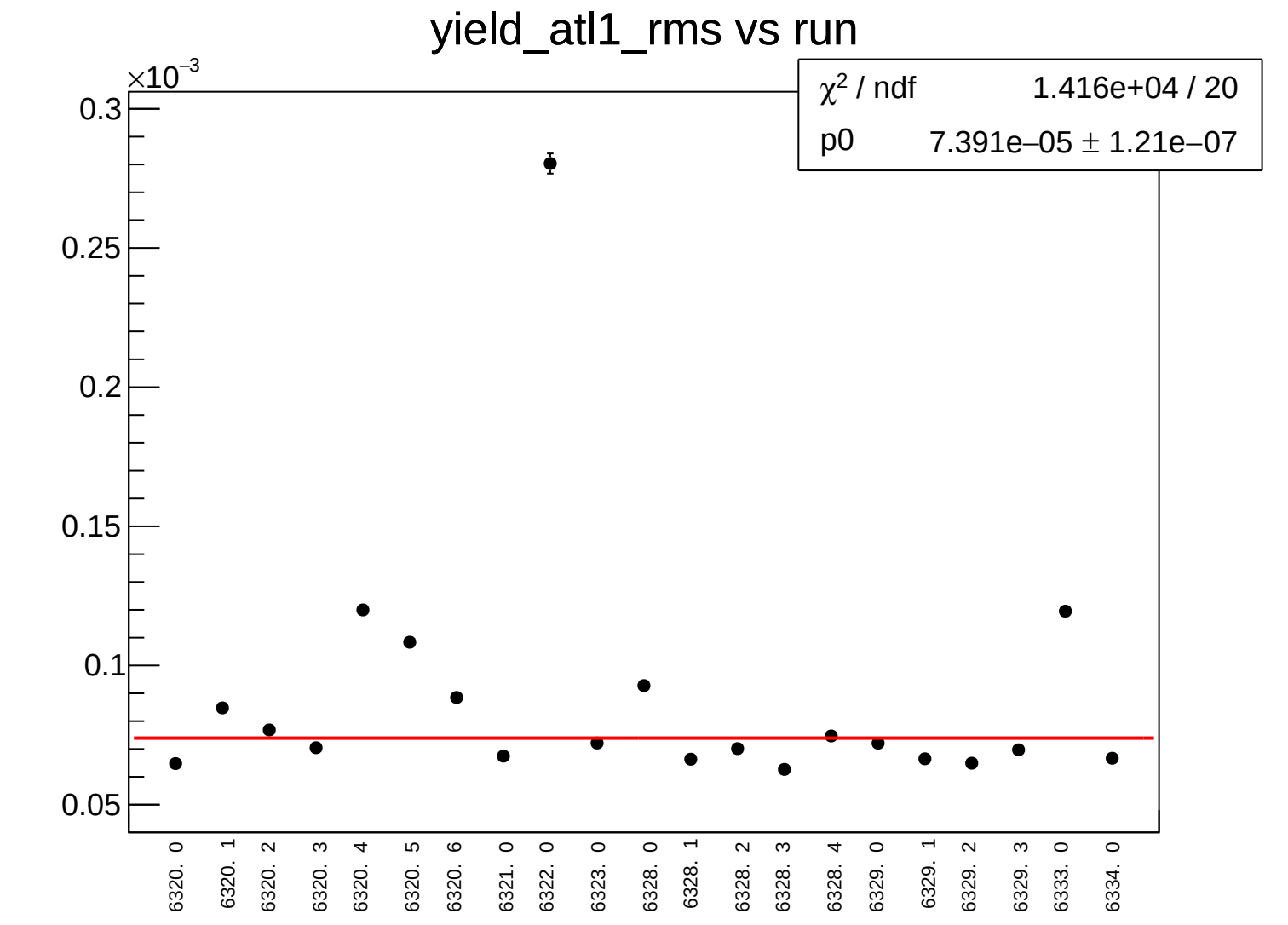

pull
Entries 21
Mean −9.073
Std Dev 16.94
100
50
0
−50
−100
−150

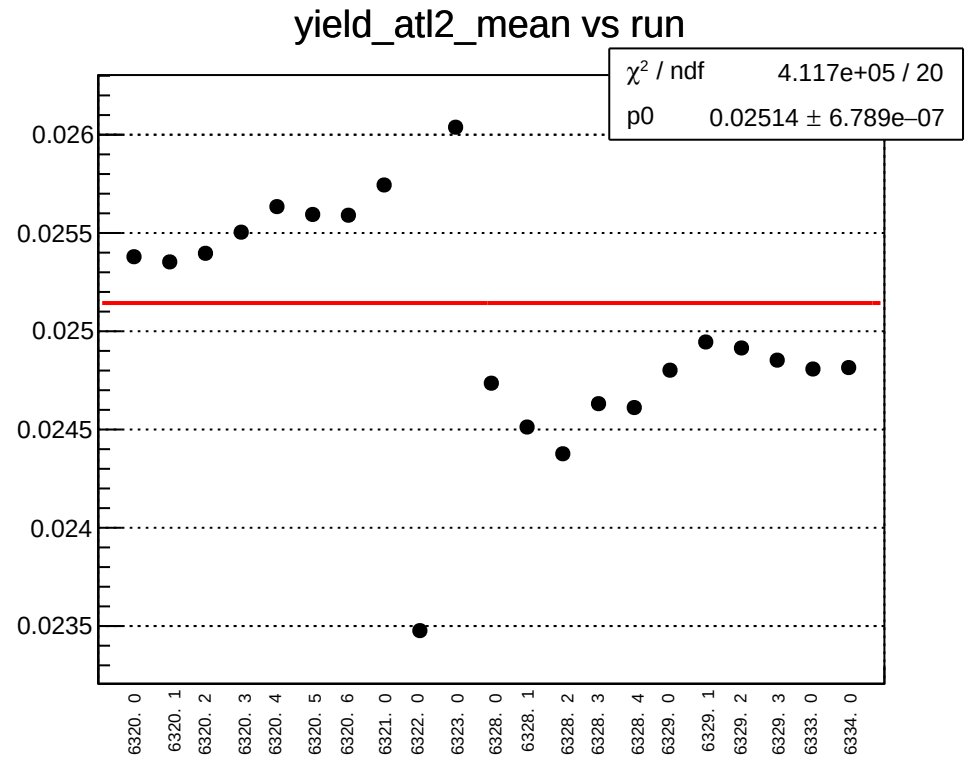

pull1D
Entries 21
Mean −1.984
Std Dev 3.301
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

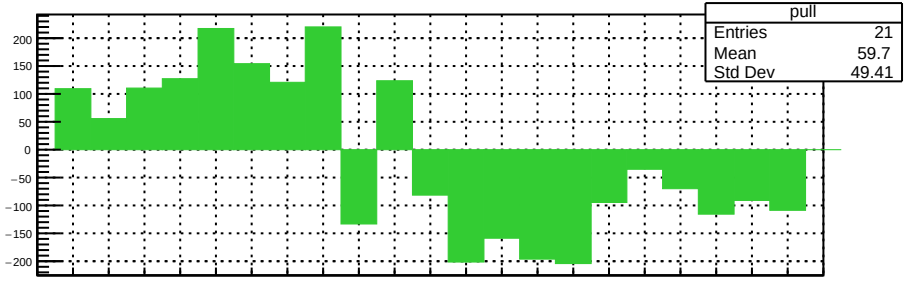

yield_dsr_rms vs run
χ² / ndf 1.891e+04 / 20
p0 0.06062 ± 9.985e−05
0.09
0.08
0.07
0.06
0.05
0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

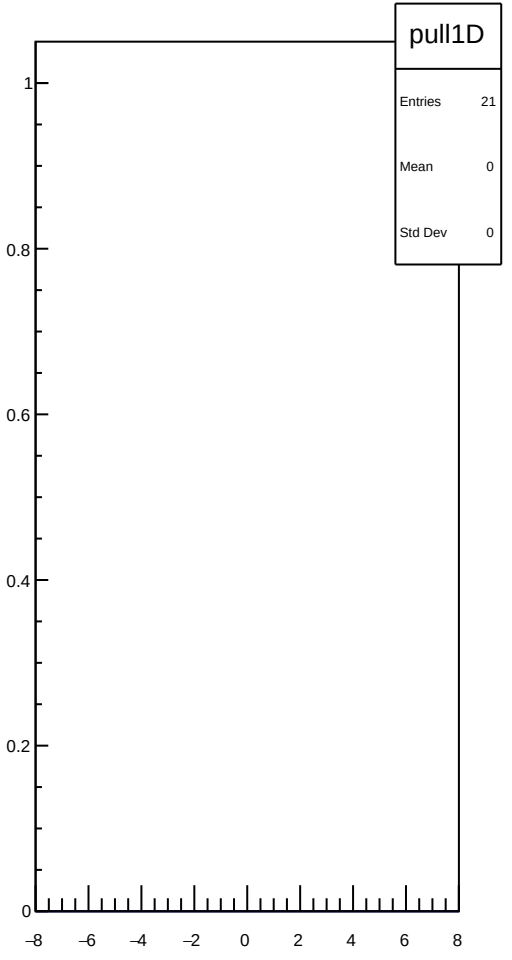

yield_atl1_mean vs run
χ² / ndf 4.804e+04 / 20
p0 0.02449 ± 1.711e−07
0.02465
0.0246
0.02455
0.0245
0.02445
0.0244
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −27.77
Std Dev 35.34
80
60
40
20
0
−20
−40
−60

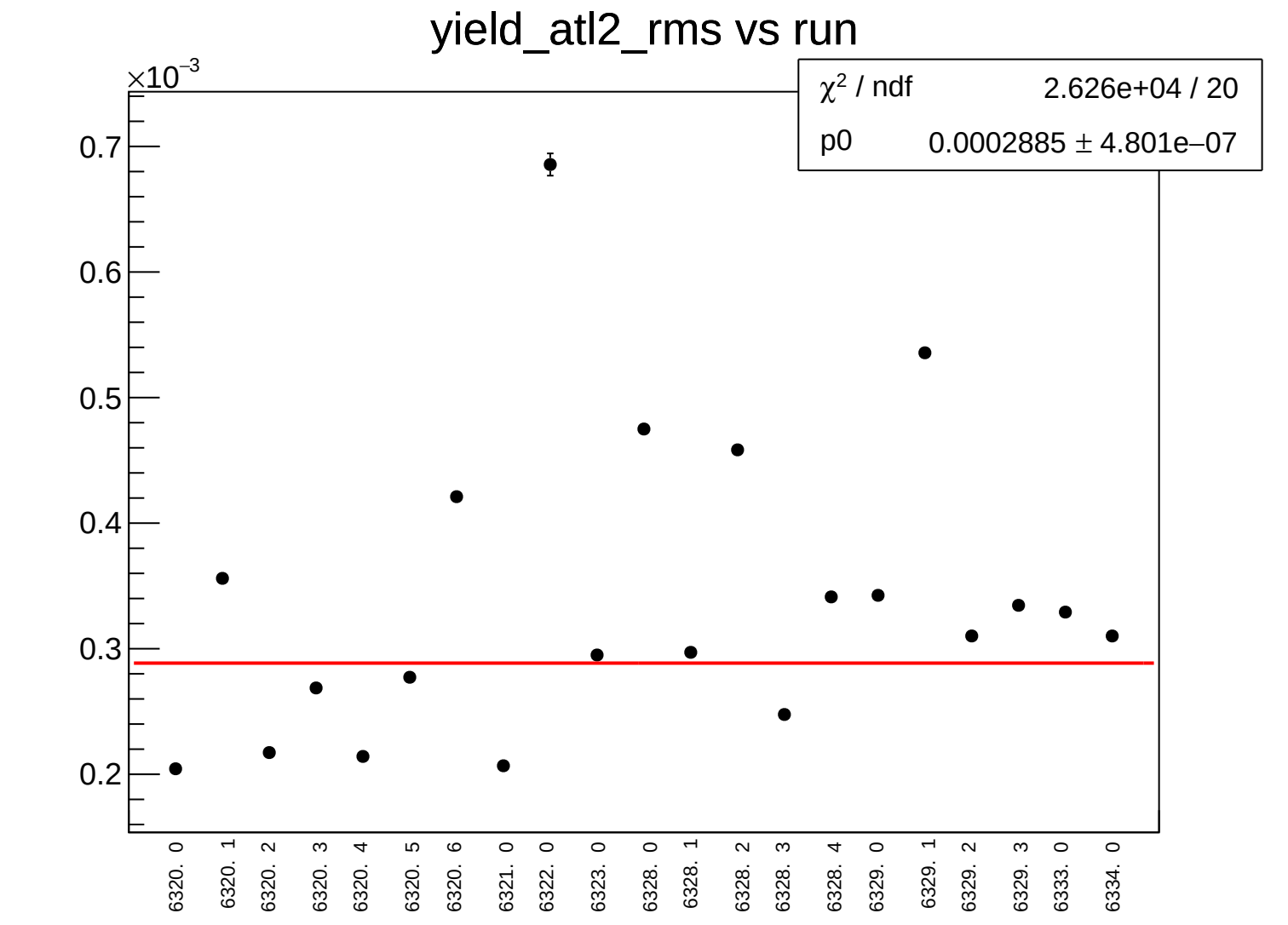

pull1D
Entries 21
Mean −1.649
Std Dev 4.351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

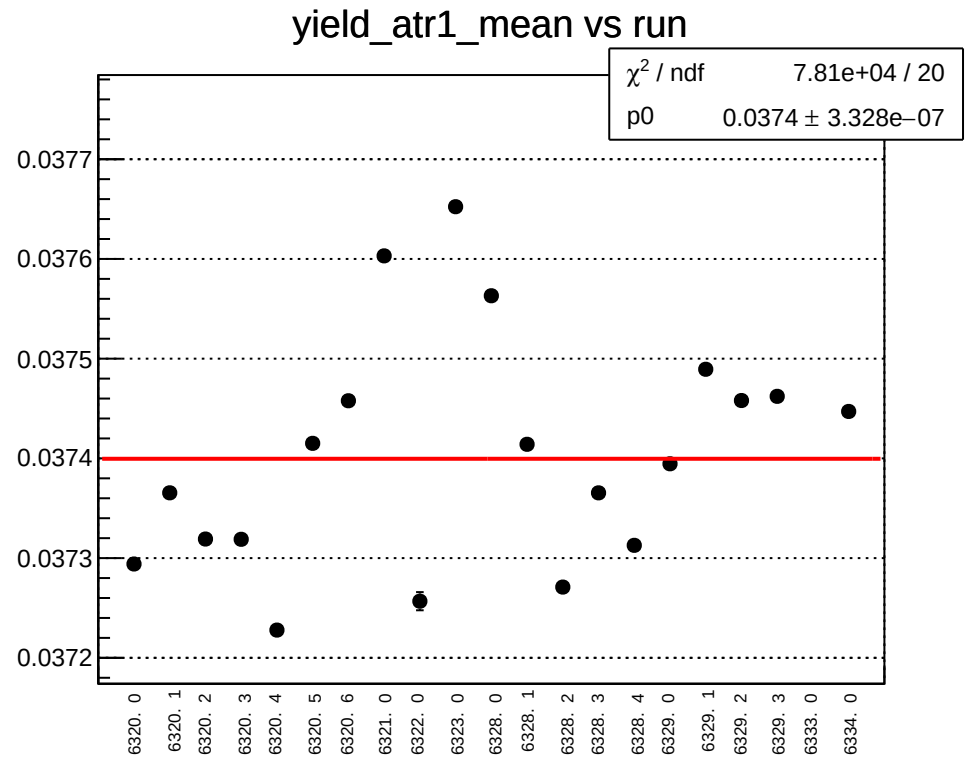

yield_atl1_rms vs run
×10⁻³
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 1.416e+04 / 20
p0 7.391e−05 ± 1.21e−07
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

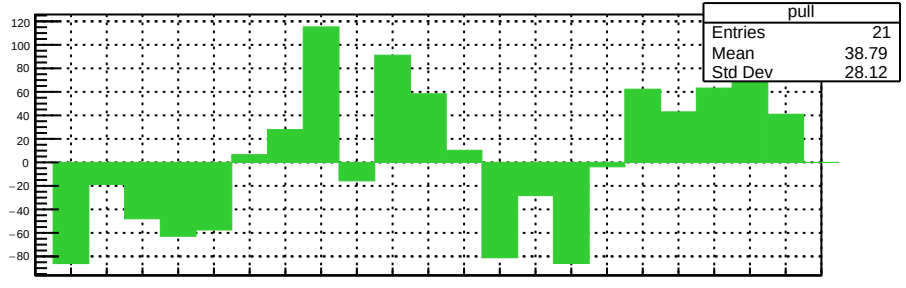

yield_atl2_mean vs run
χ² / ndf 4.117e+05 / 20
p0 0.02514 ± 6.789e−07
0.026
0.0255
0.025
0.0245
0.024
0.0235
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

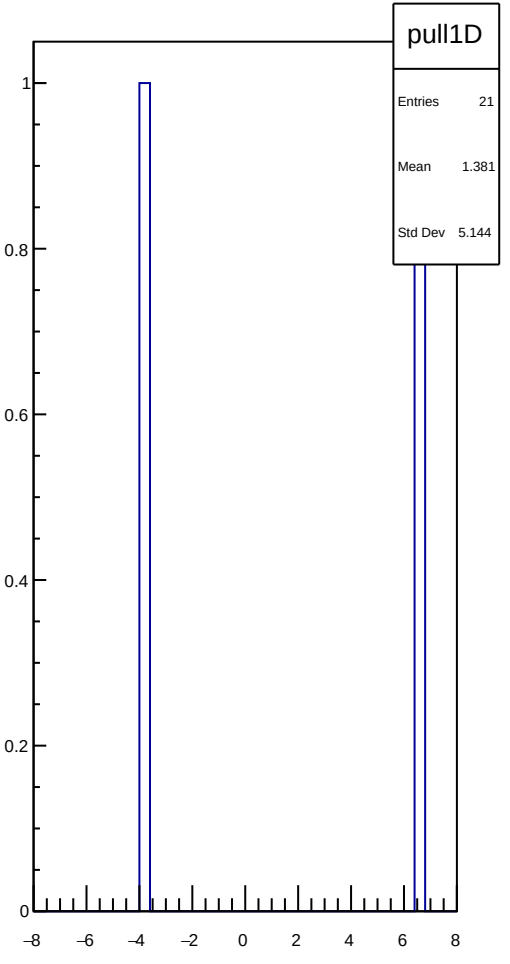

pull
Entries 21
Mean 59.7
Std Dev 49.41
200
150
100
50
0
−50
−100
−150
−200

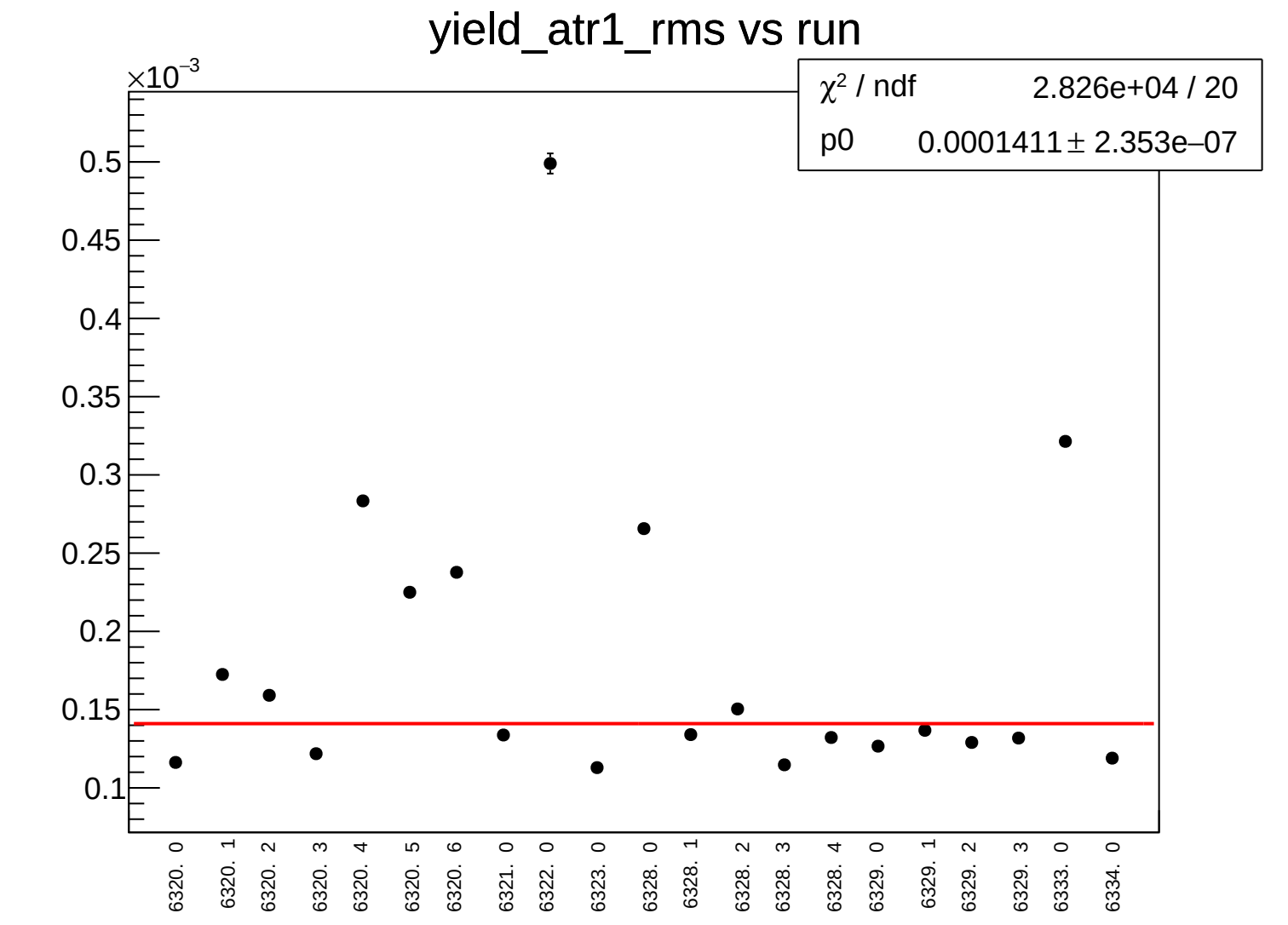

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

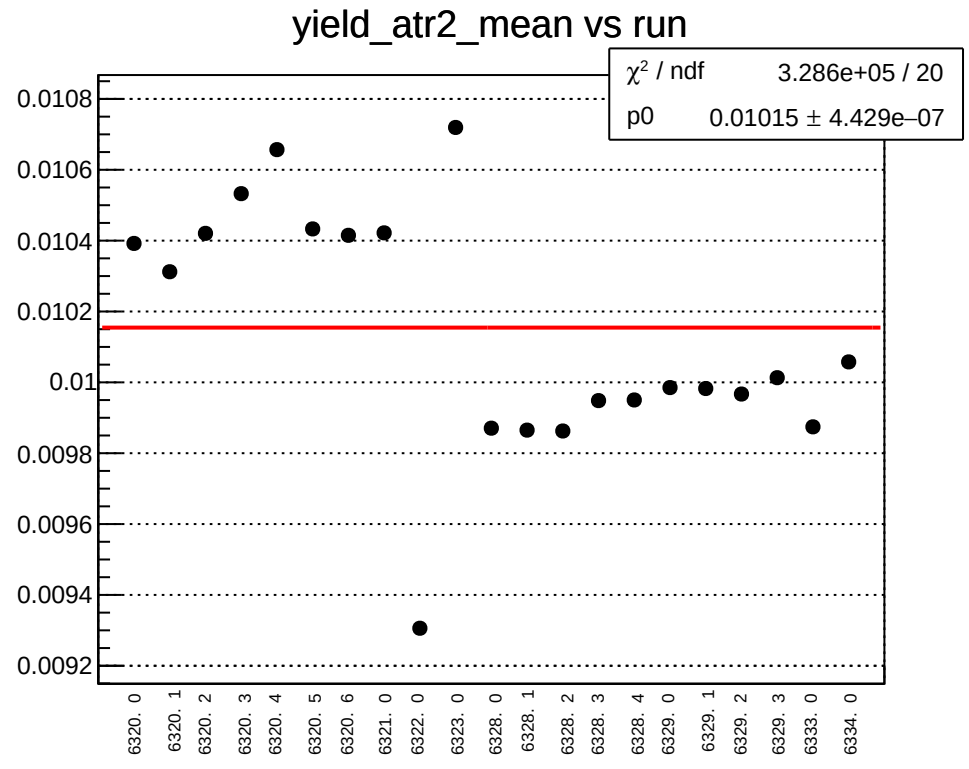

yield_atl2_rms vs run
×10⁻³
χ² / ndf 2.626e+04 / 20
p0 0.0002885 ± 4.801e–07
0.7
0.6
0.5
0.4
0.3
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

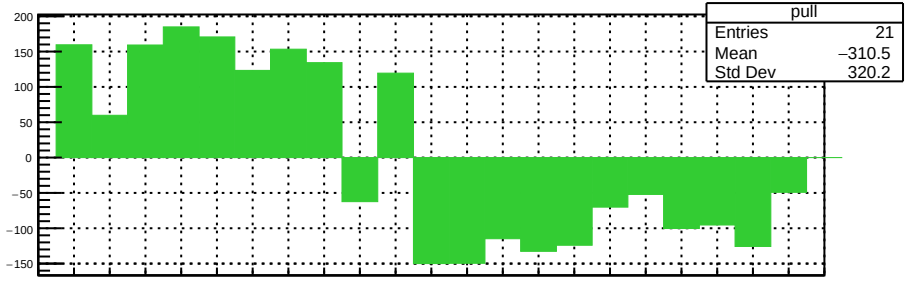

yield_atr1_mean vs run
χ² / ndf 7.81e+04 / 20
p0 0.0374 ± 3.328e−07
0.0377
0.0376
0.0375
0.0374
0.0373
0.0372
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

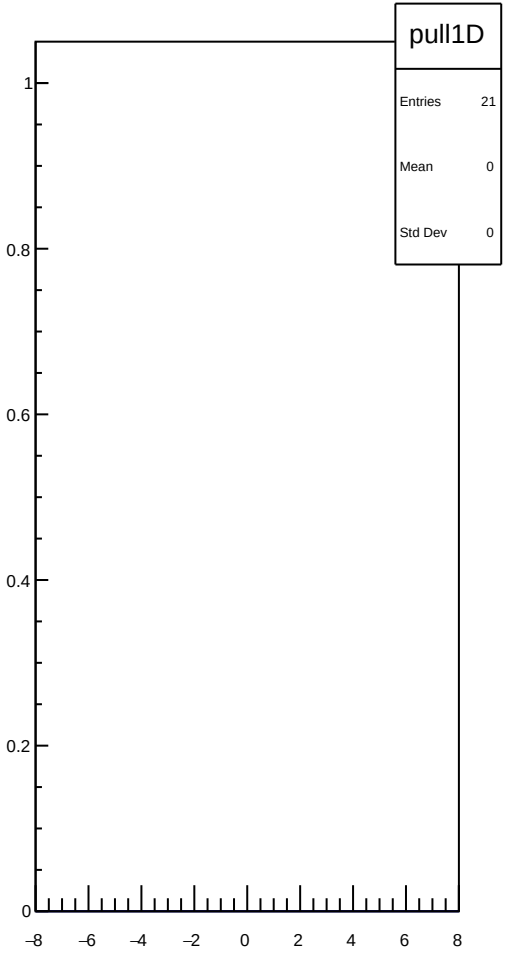

pull
Entries 21
Mean 38.79
Std Dev 28.12
120
100
80
60
40
20
0
−20
−40
−60
−80

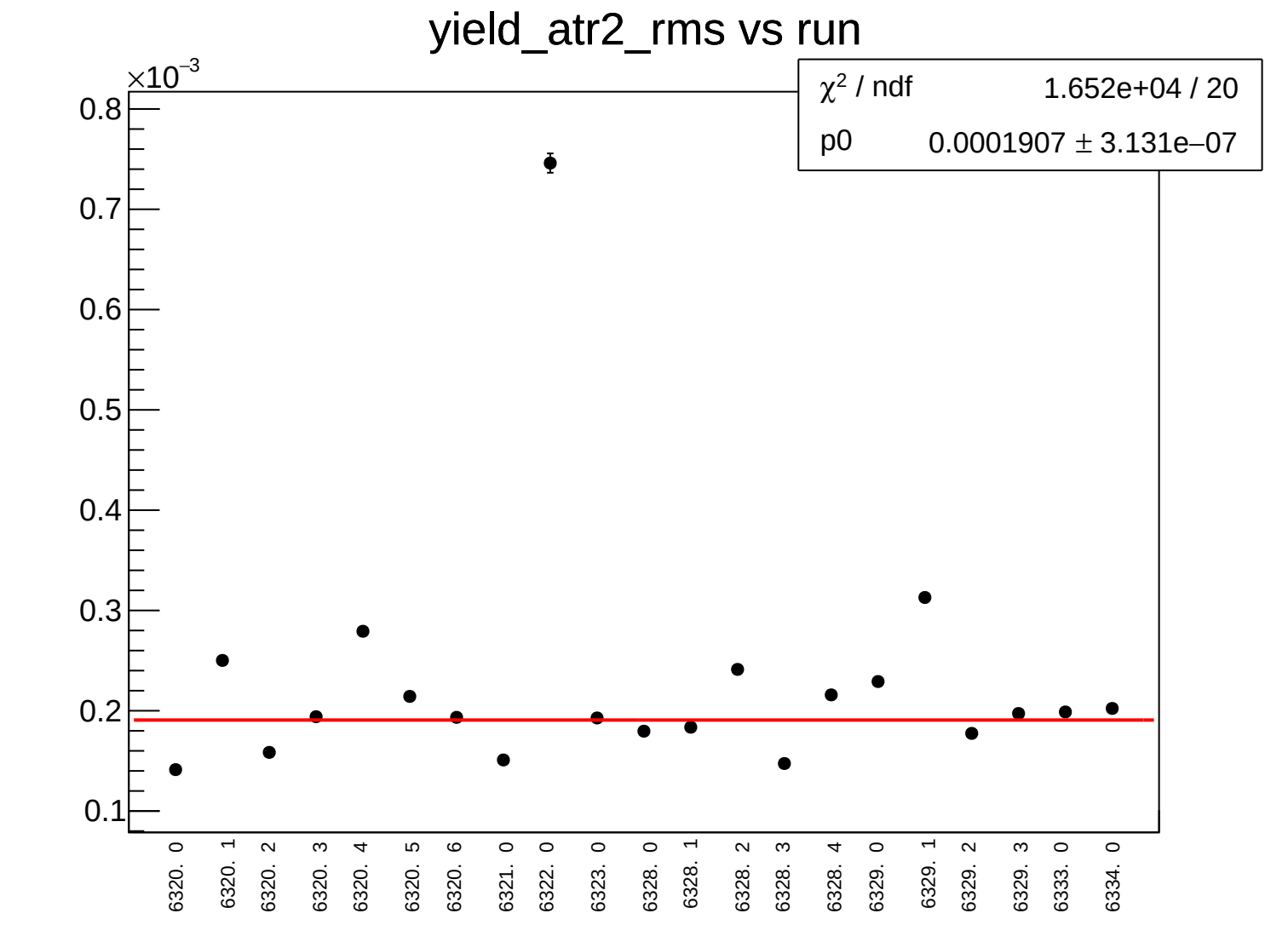

pull1D
Entries 21
Mean 1.381
Std Dev 5.144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

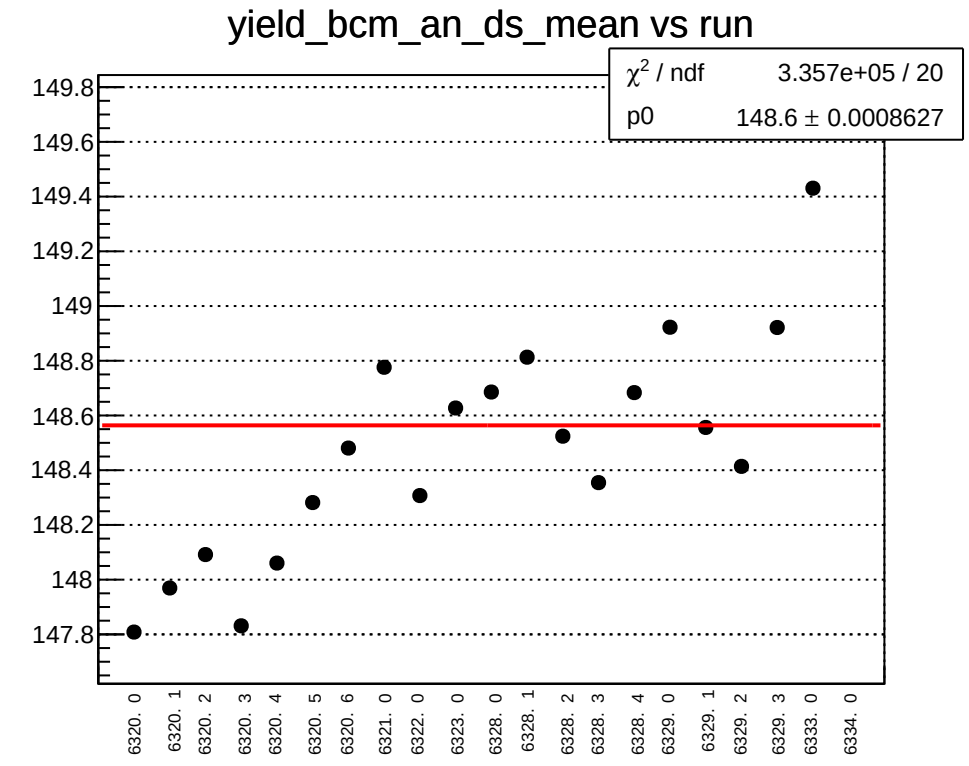

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.826e+04 / 20
p0 0.0001411 ± 2.353e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

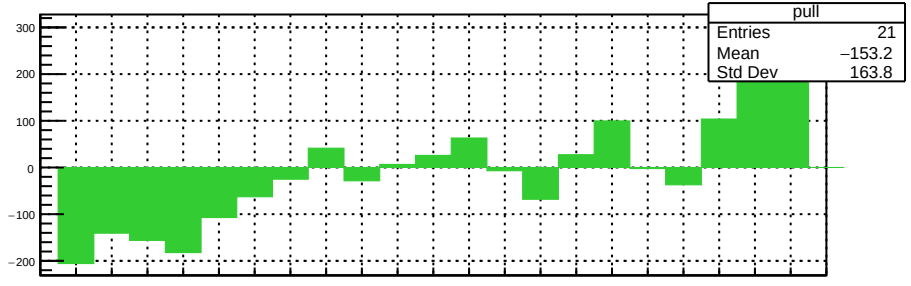

yield_atr2_mean vs run
χ² / ndf 3.286e+05 / 20
p0 0.01015 ± 4.429e−07
0.0108
0.0106
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

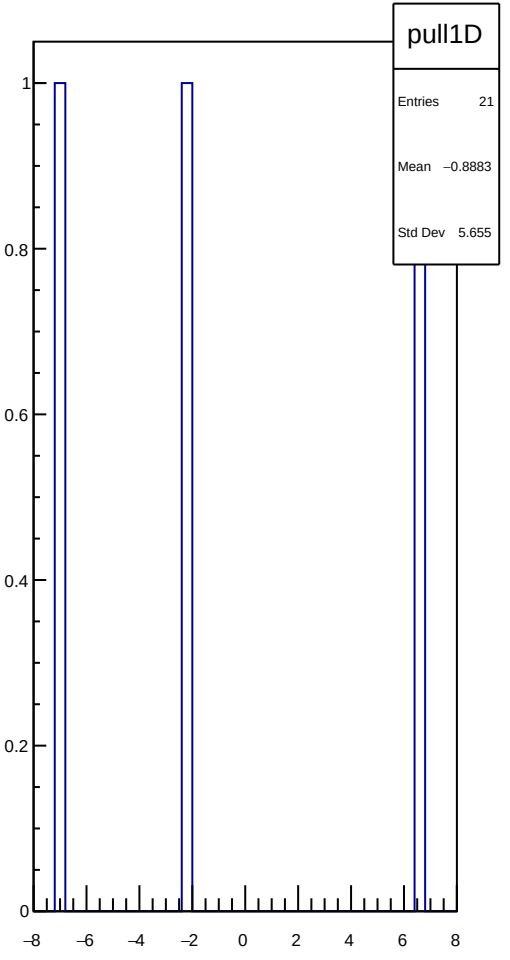

pull
Entries 21
Mean −310.5
Std Dev 320.2
200
150
100
50
0
−50
−100
−150

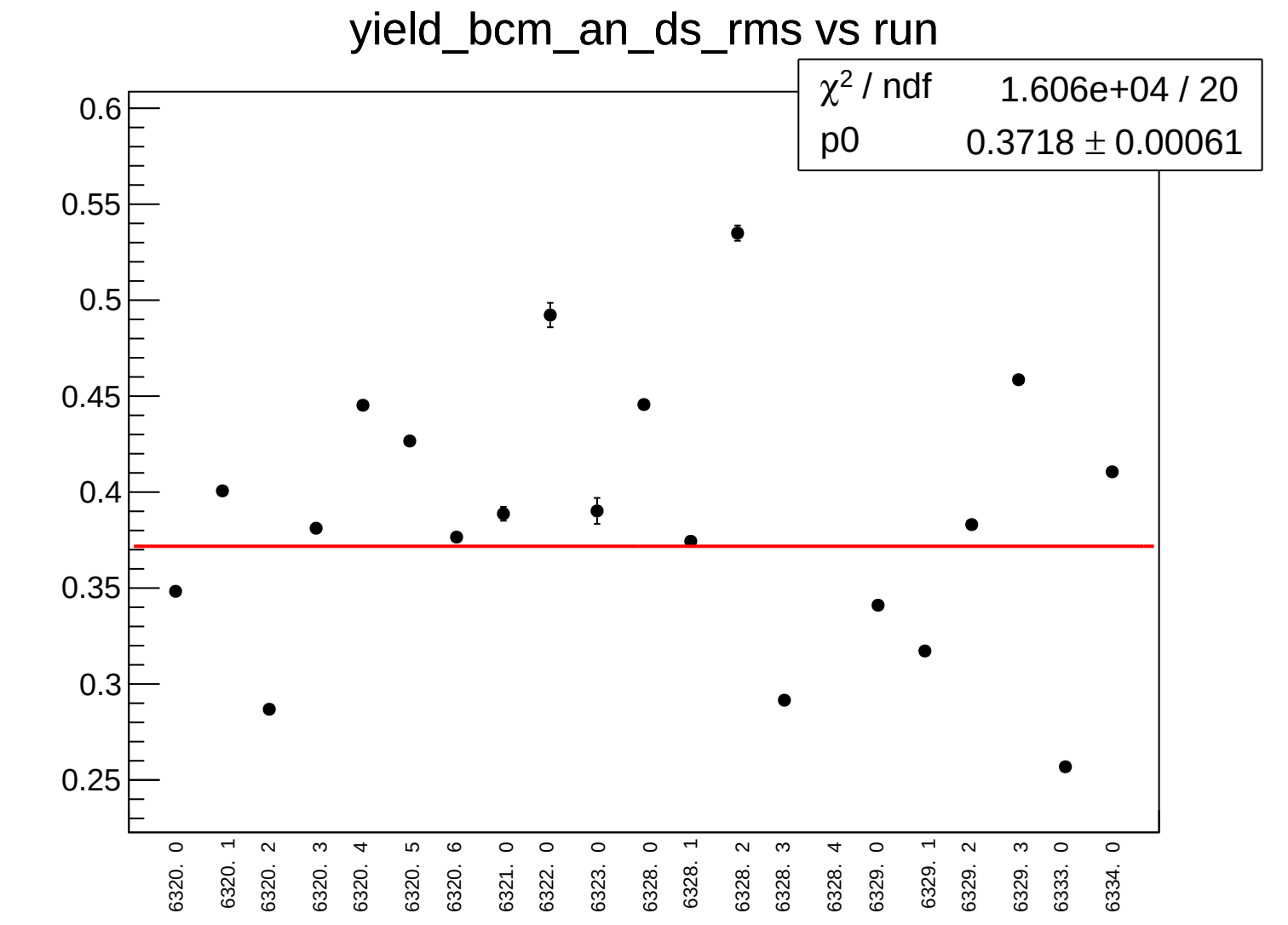

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

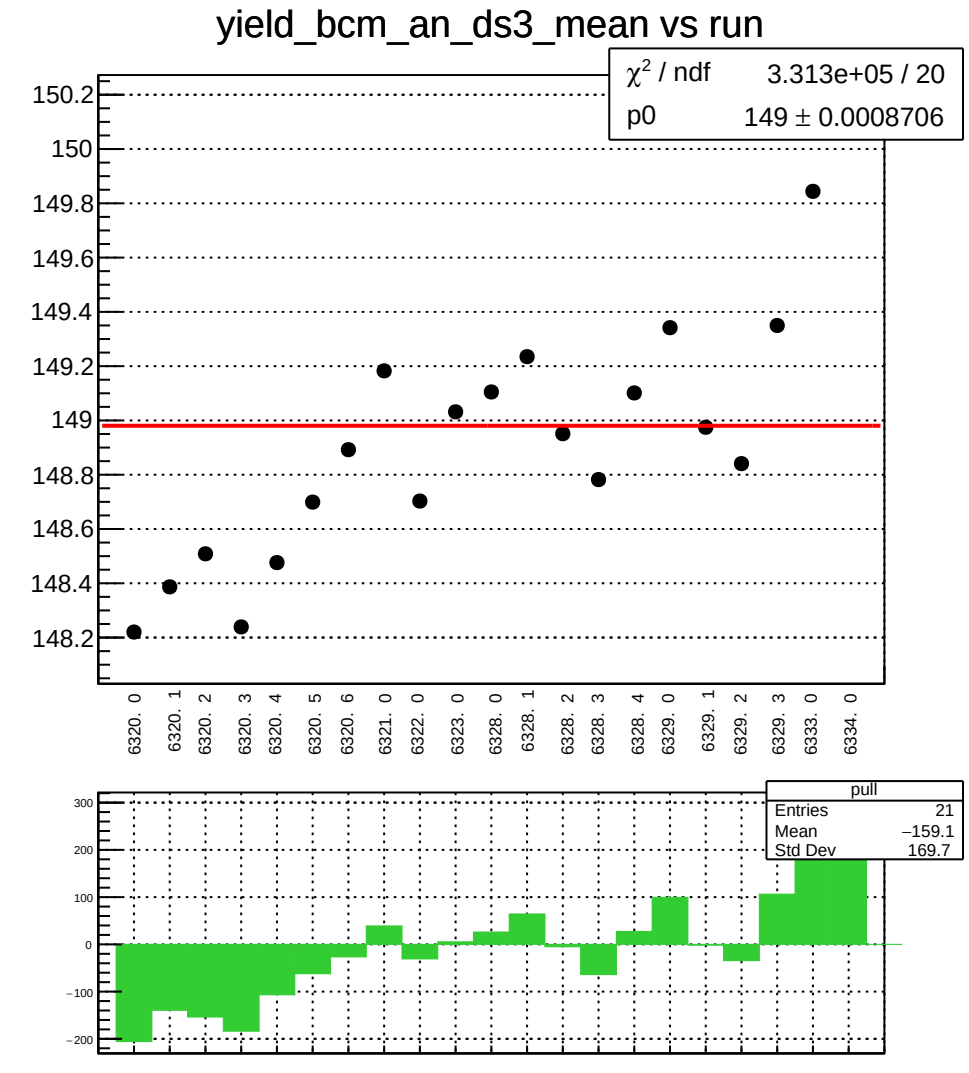

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.652e+04 / 20
p0 0.0001907 ± 3.131e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

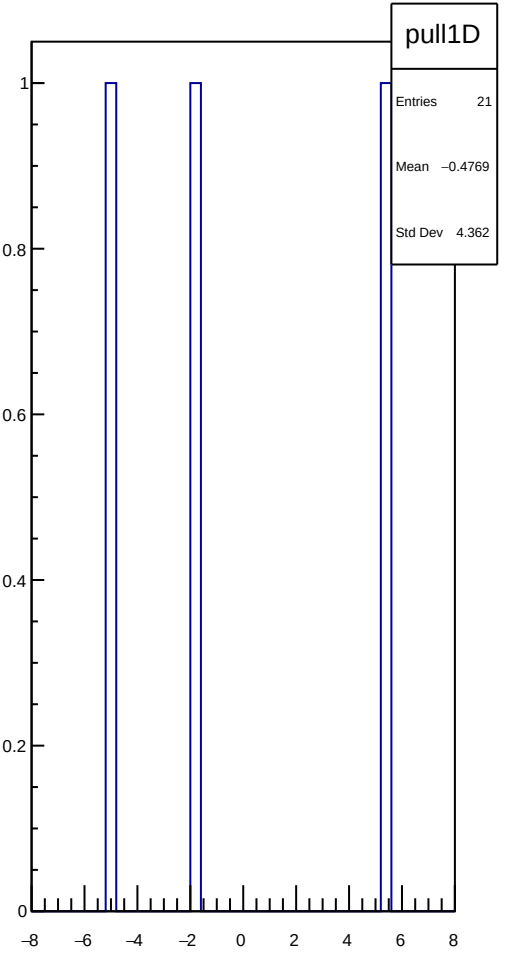

yield_bcm_an_ds_mean vs run
χ² / ndf 3.357e+05 / 20
p0 148.6 ± 0.0008627
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

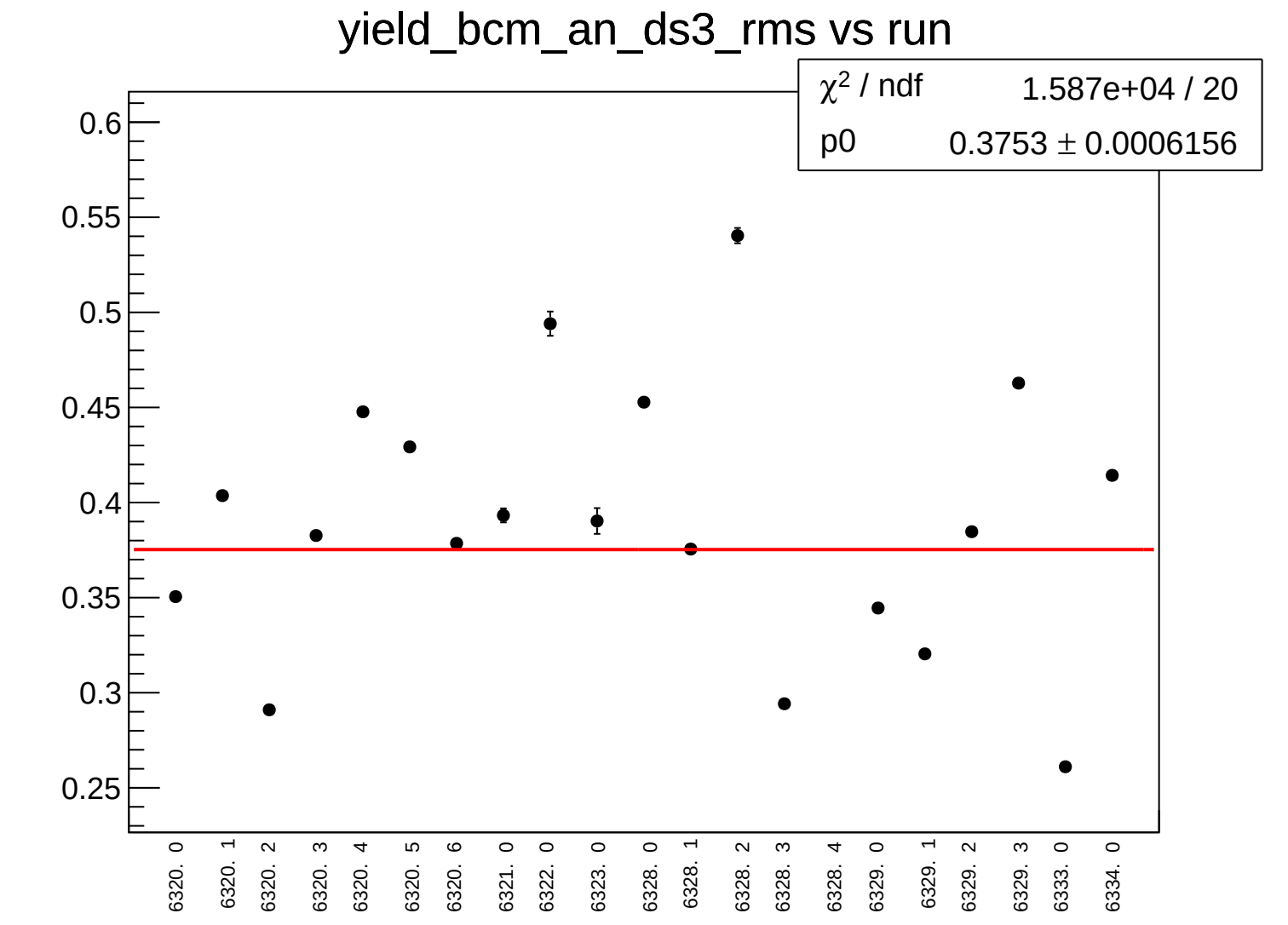

pull
Entries 21
Mean −153.2
Std Dev 163.8
300
200
100
0
−100
−200

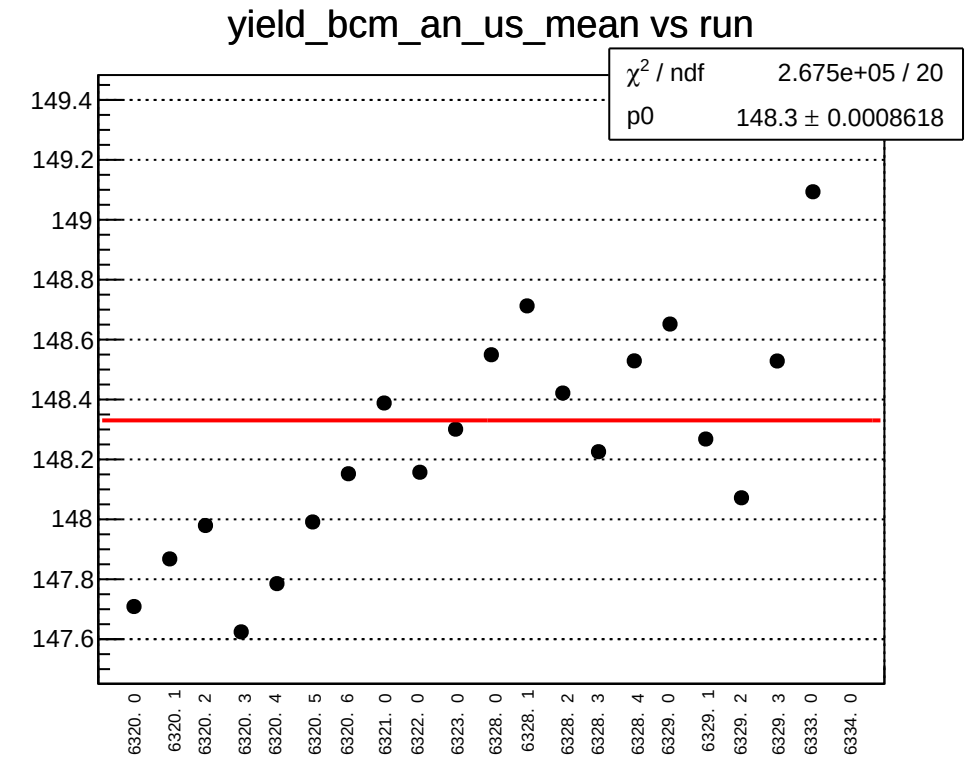

pull1D
Entries 21
Mean −0.8883
Std Dev 5.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

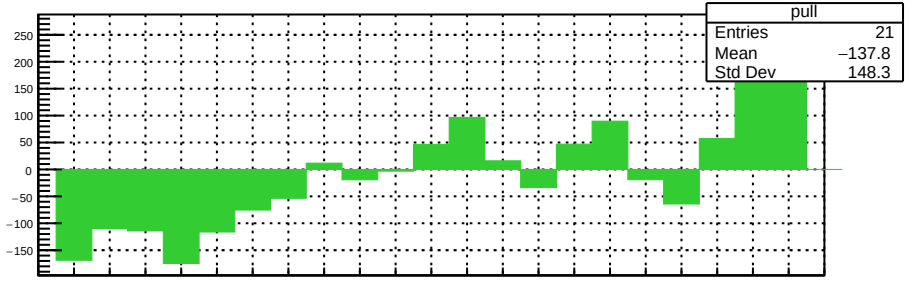

yield_bcm_an_ds_rms vs run
χ² / ndf 1.606e+04 / 20
p0 0.3718 ± 0.00061
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

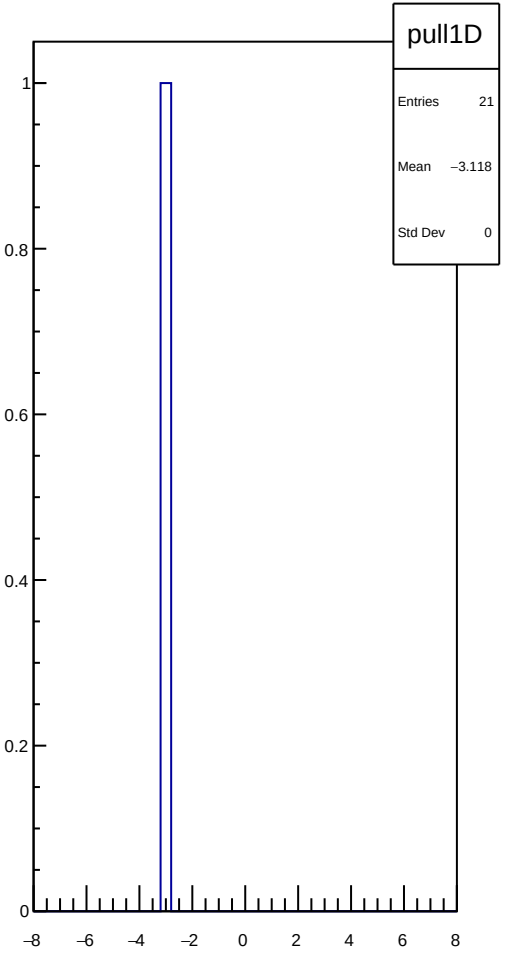

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.313e+05 / 20
p0 149 ± 0.0008706
150.2
150
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −159.1
Std Dev 169.7
300
200
100
0
−100
−200

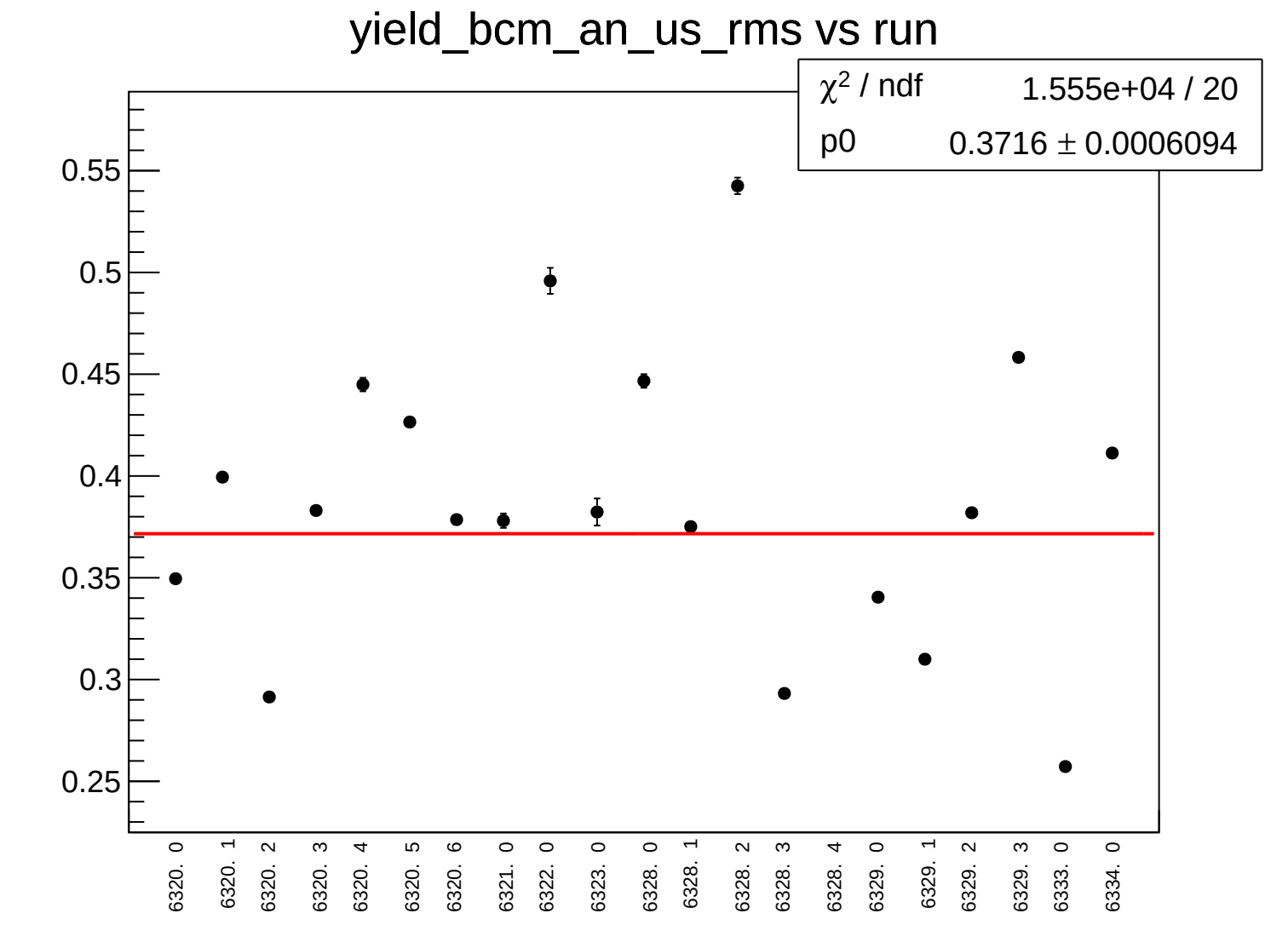

pull1D
Entries 21
Mean −0.4769
Std Dev 4.362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

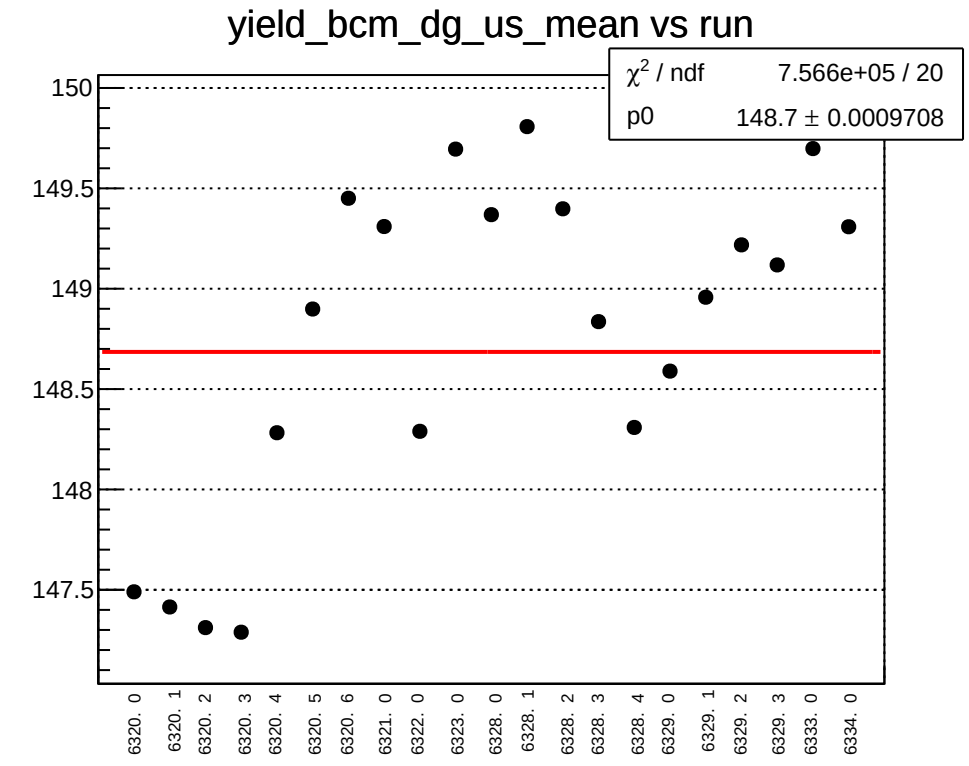

yield_bcm_an_ds3_rms vs run
χ2 / ndf 1.587e+04 / 20
p0 0.3753 ± 0.0006156
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

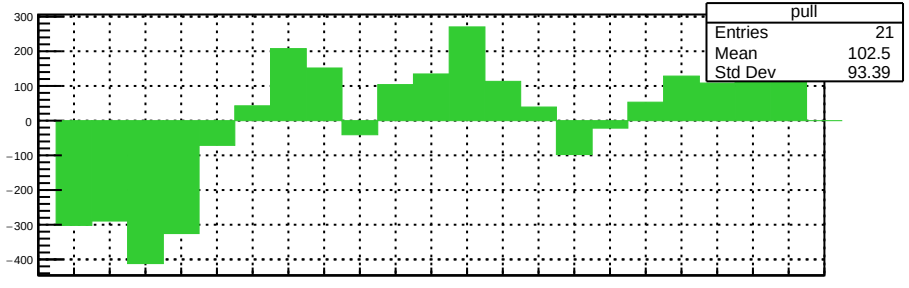

yield_bcm_an_us_mean vs run
χ² / ndf 2.675e+05 / 20
p0 148.3 ± 0.0008618
149.4
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

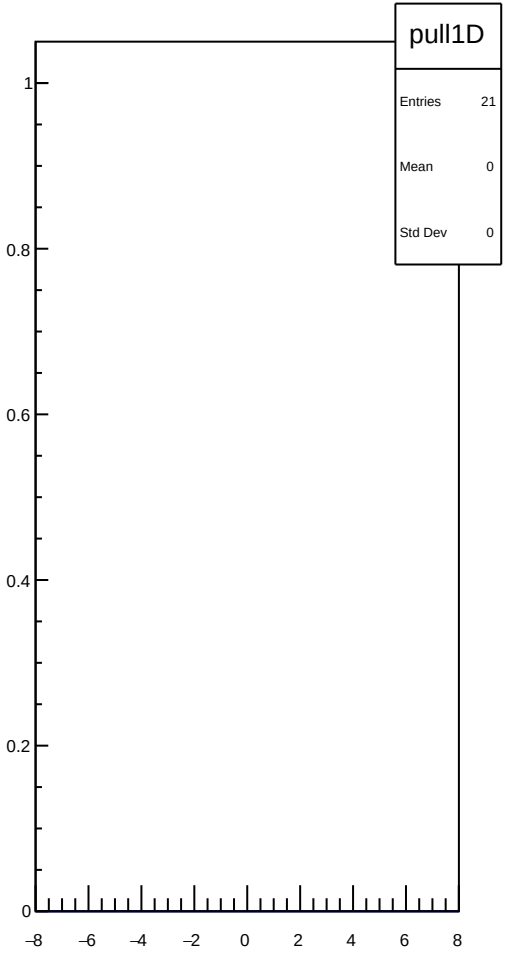

pull
Entries 21
Mean −137.8
Std Dev 148.3
250
200
150
100
50
0
−50
−100
−150

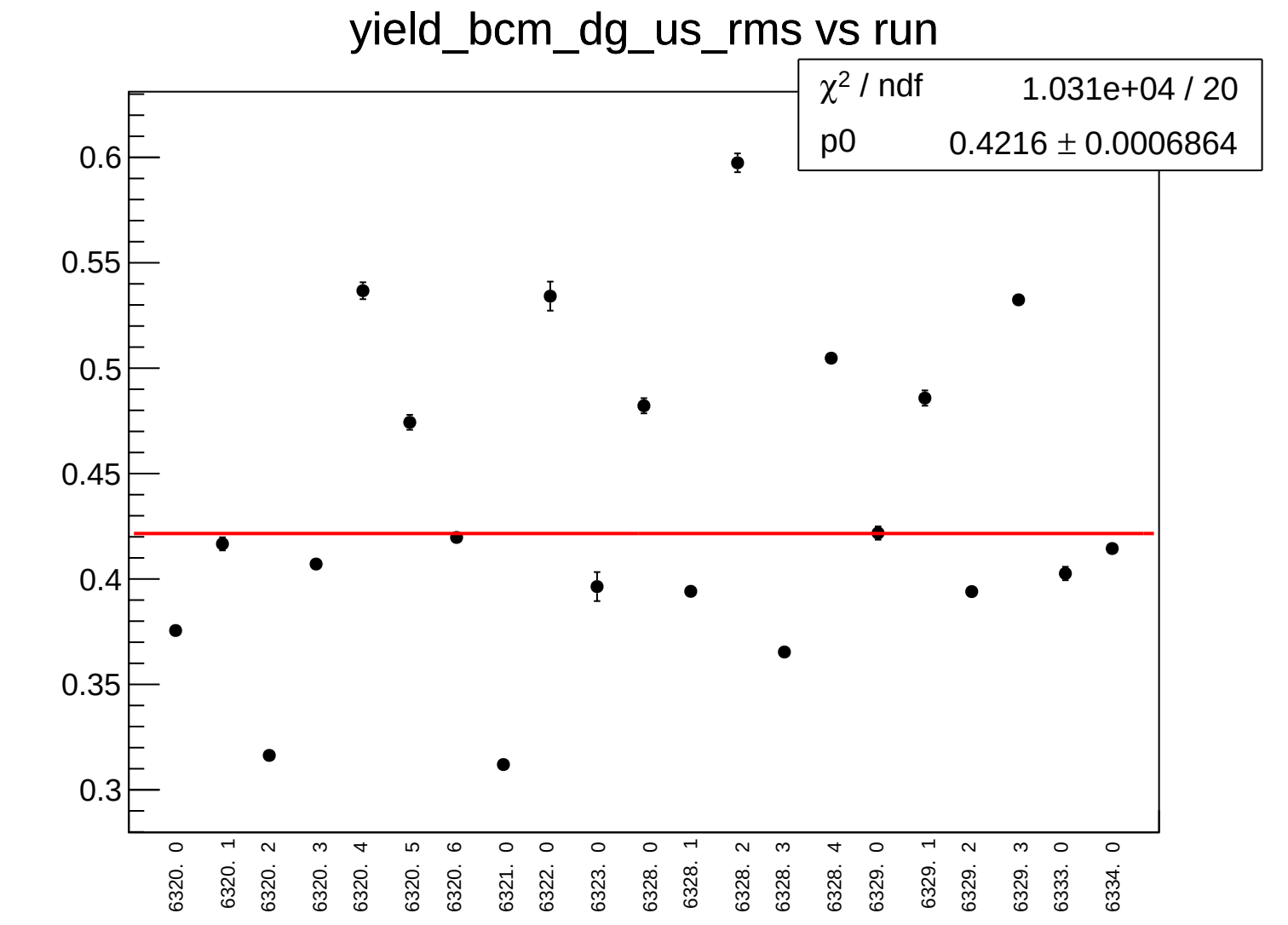

pull1D
Entries 21
Mean −3.118
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

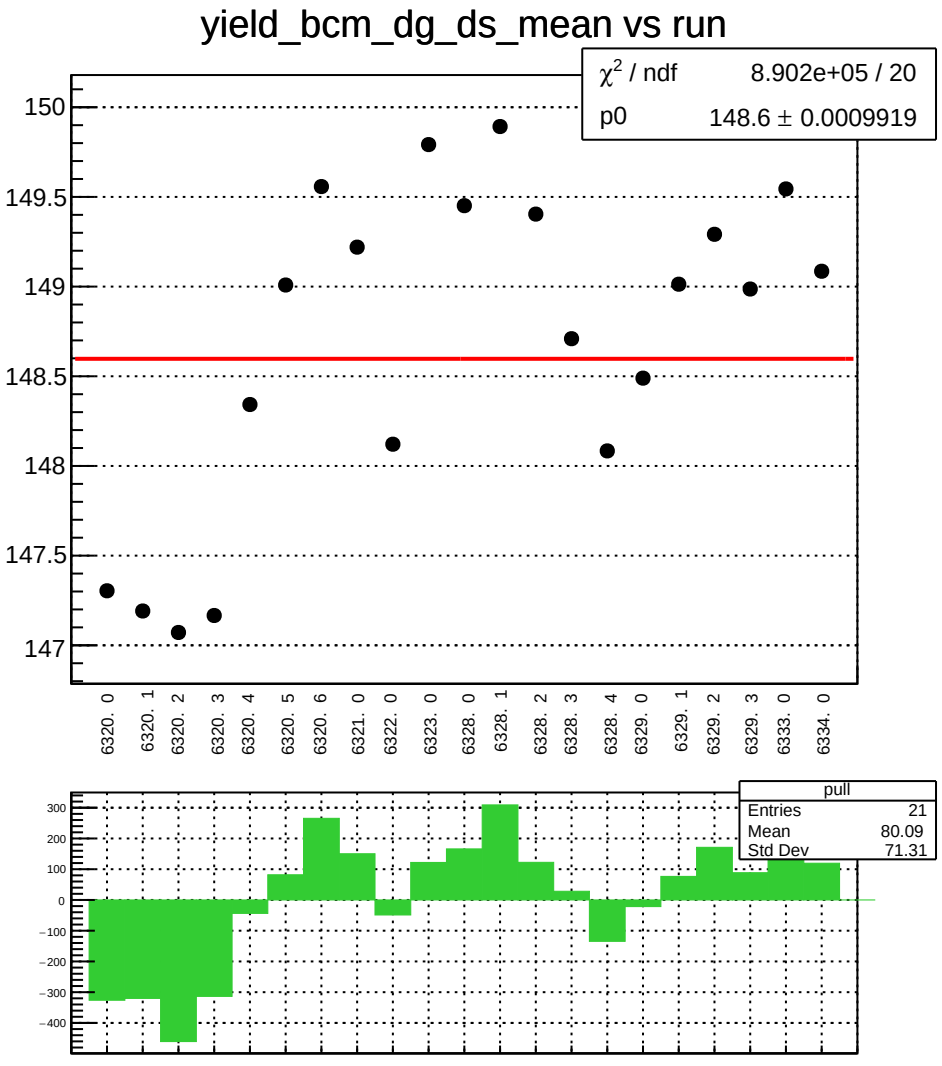

yield_bcm_an_us_rms vs run
χ2 / ndf 1.555e+04 / 20
p0 0.3716 ± 0.0006094
0.55
0.5
0.45
0.4
0.35
0.3
0.25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

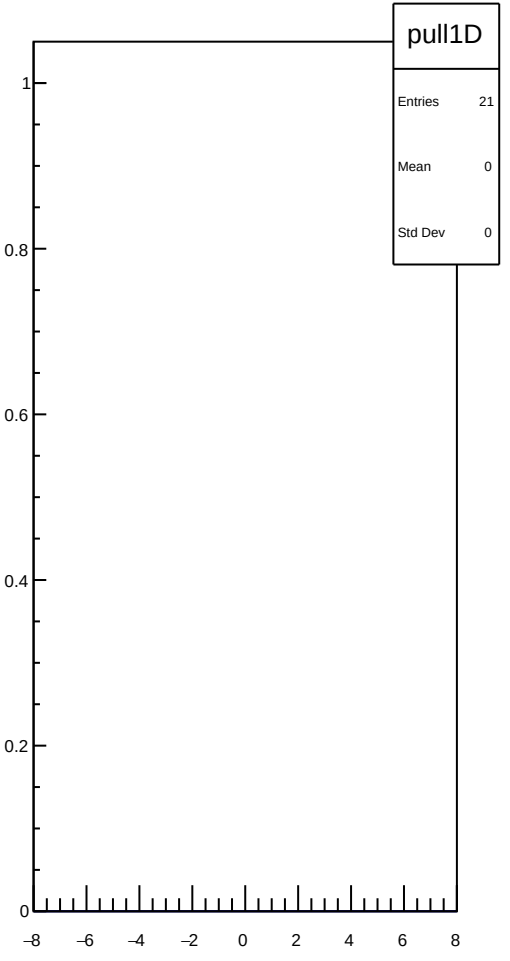

yield_bcm_dg_us_mean vs run
χ² / ndf 7.566e+05 / 20
p0 148.7 ± 0.0009708
150
149.5
149
148.5
148
147.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

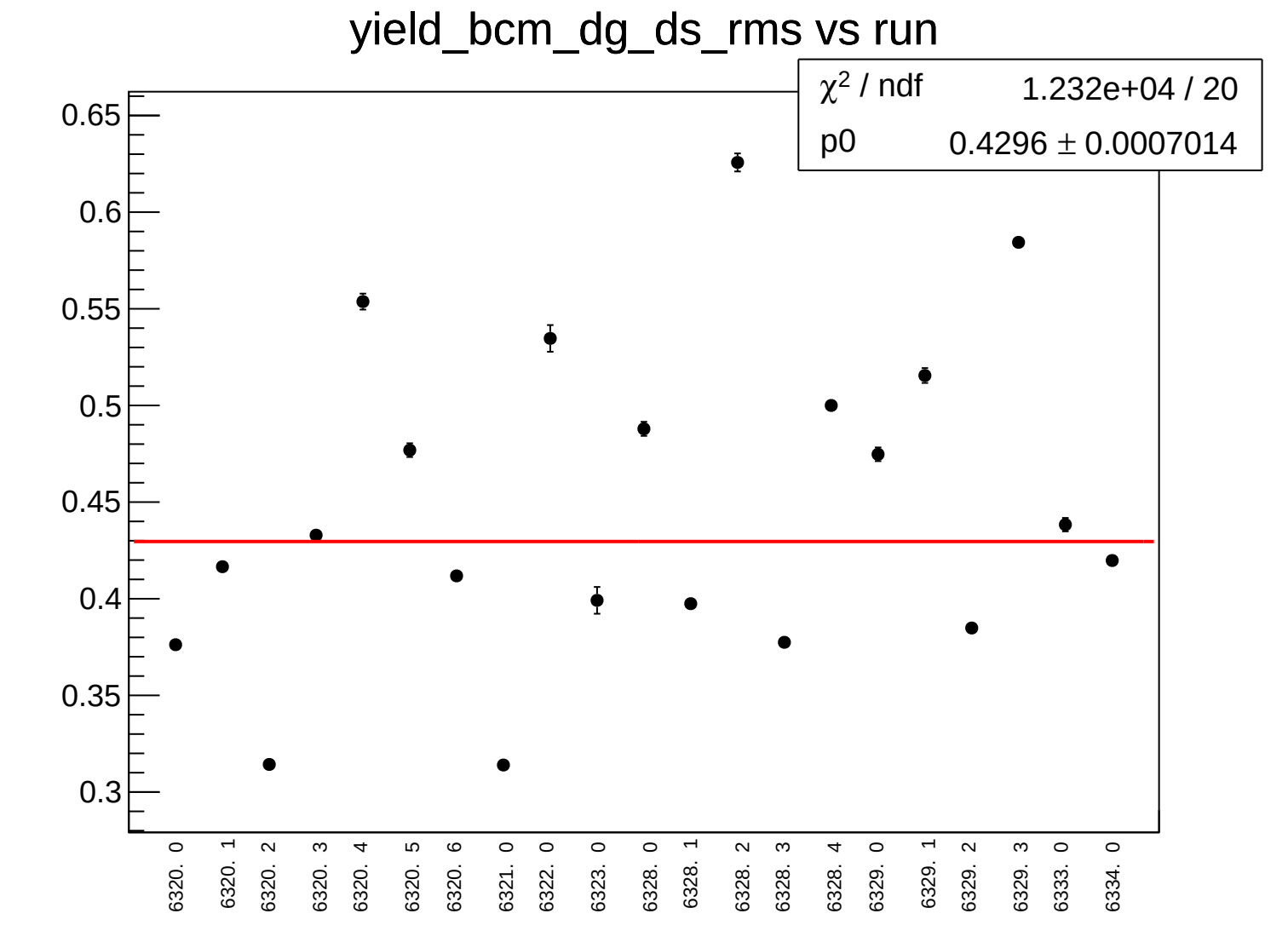

pull
Entries 21
Mean 102.5
Std Dev 93.39
300
200
100
0
−100
−200
−300
−400

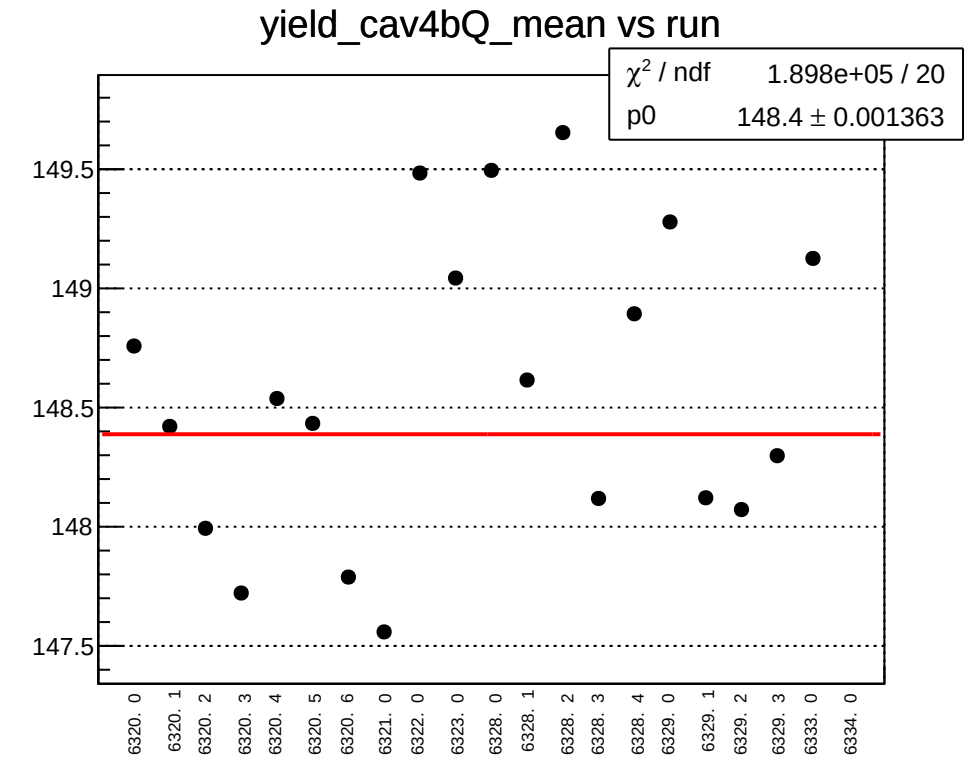

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

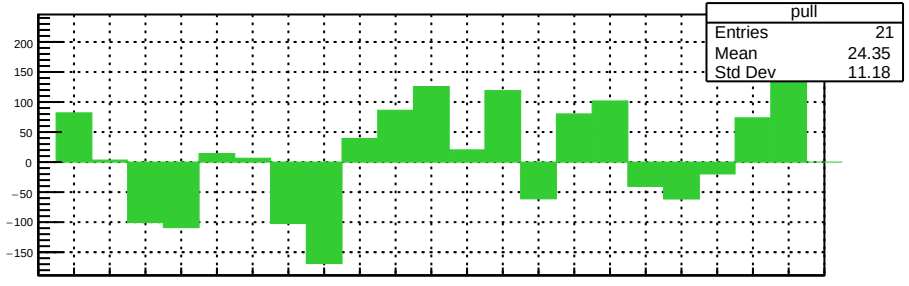

yield_bcm_dg_us_rms vs run
χ² / ndf 1.031e+04 / 20
p0 0.4216 ± 0.0006864
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

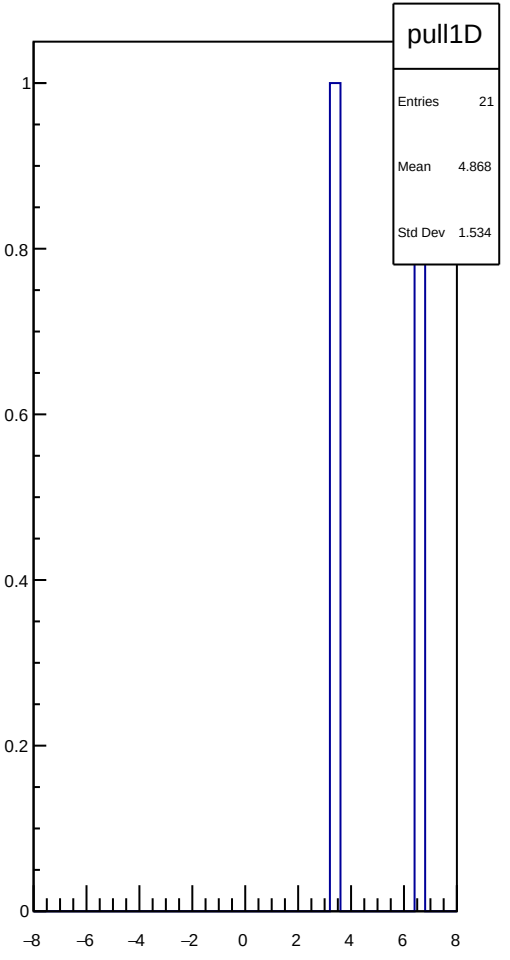

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.902e+05 / 20
p0 148.6 ± 0.0009919
150
149.5
149
148.5
148
147.5
147
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 80.09
Std Dev 71.31
300
200
100
0
−100
−200
−300
−400

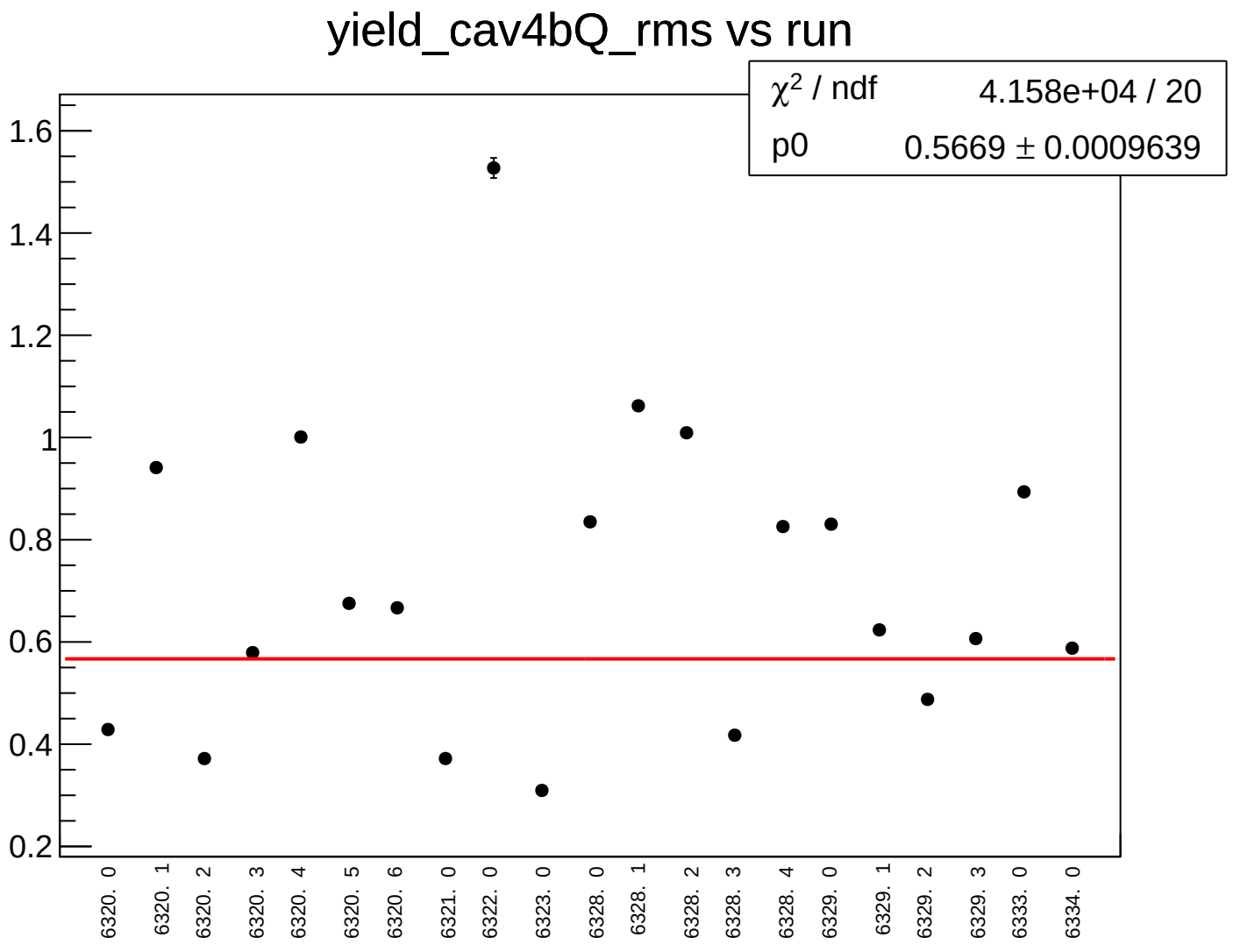

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

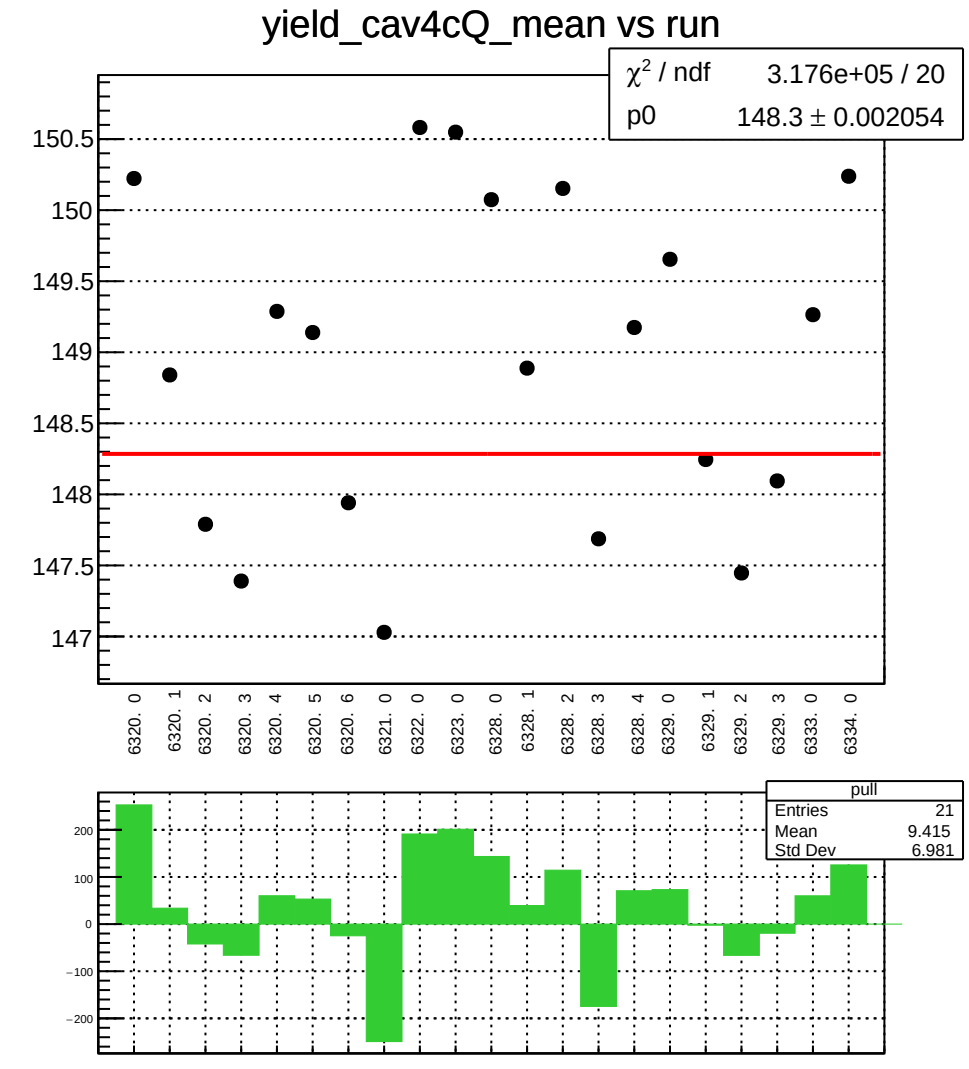

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.232e+04 / 20
p0 0.4296 ± 0.0007014
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

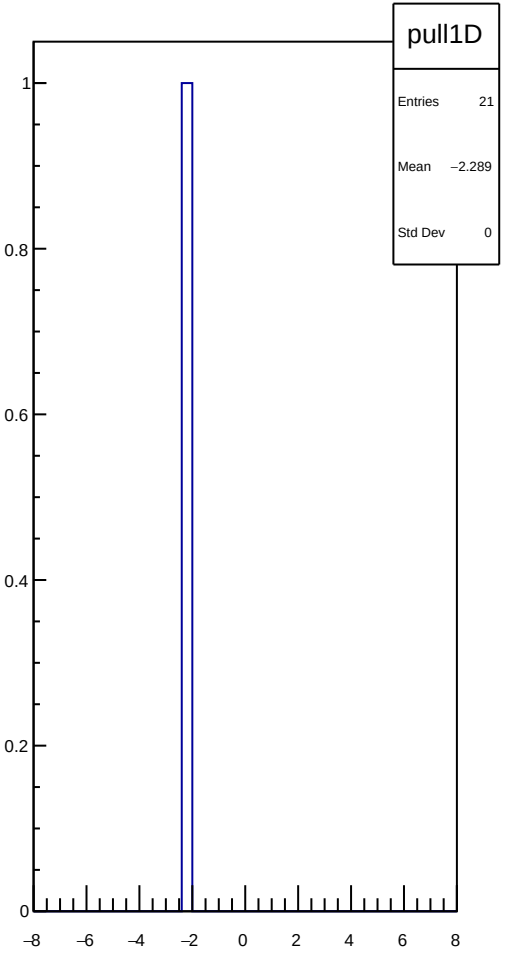

yield_cav4bQ_mean vs run
χ² / ndf 1.898e+05 / 20
p0 148.4 ± 0.001363
149.5
149
148.5
148
147.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

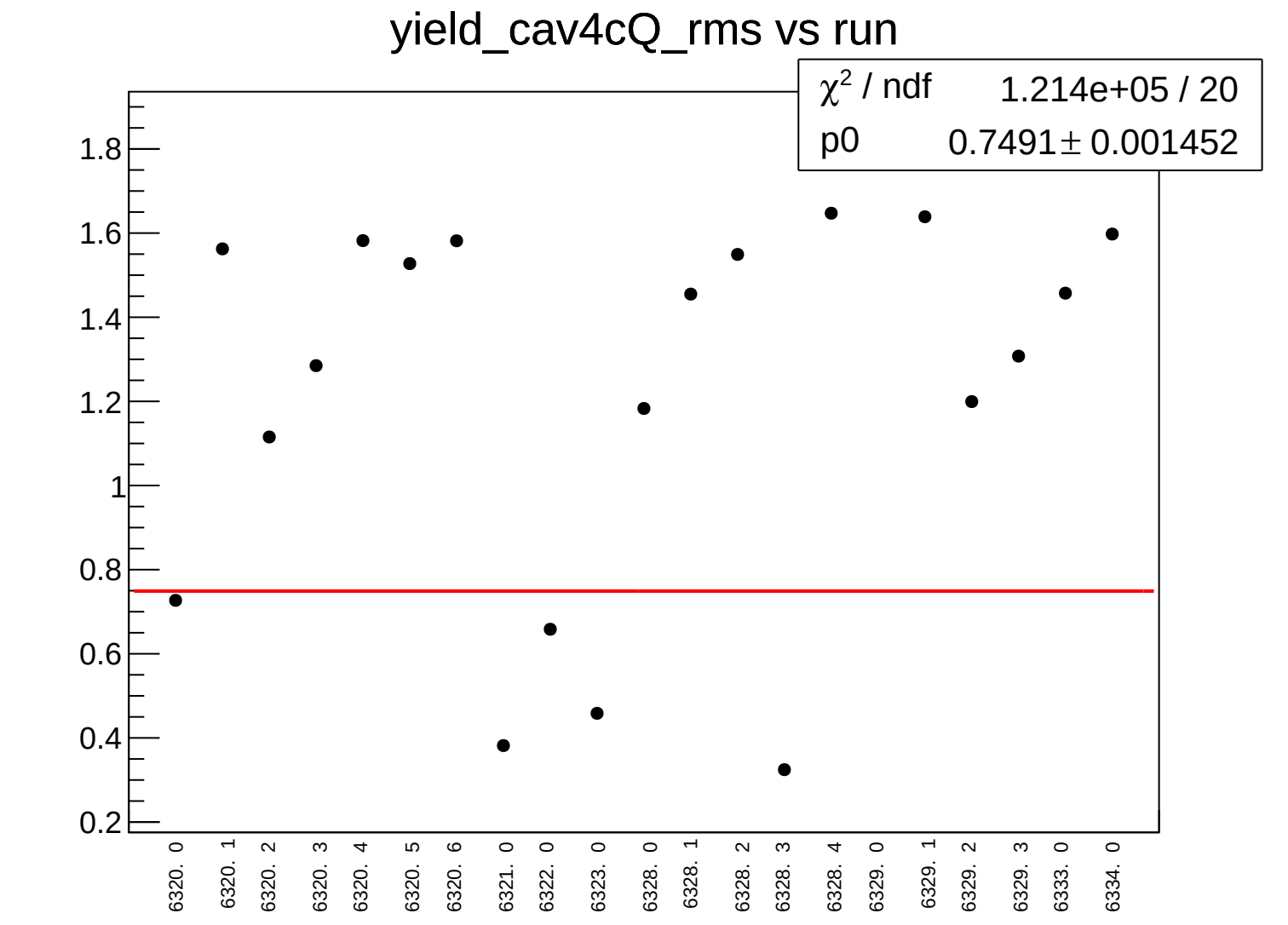

pull
Entries 21
Mean 24.35
Std Dev 11.18
200
150
100
50
0
−50
−100
−150

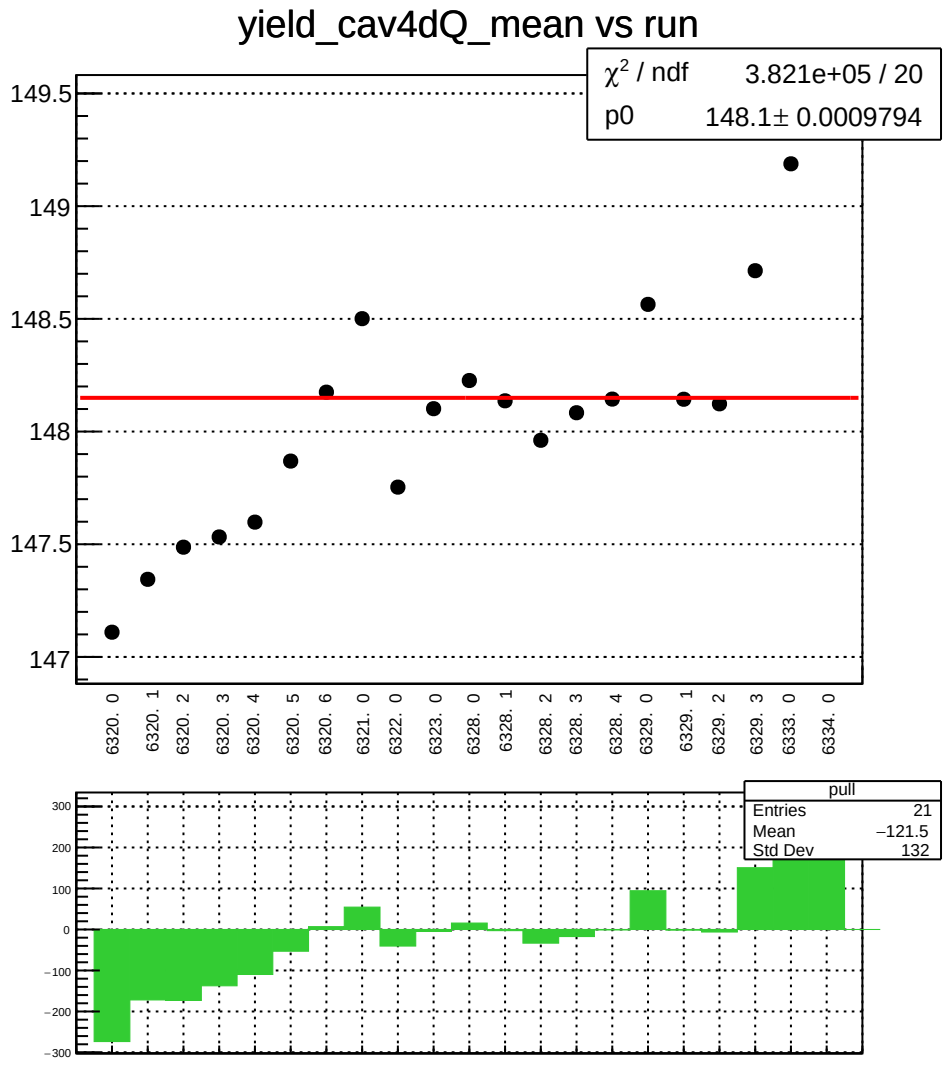

pull1D
Entries 21
Mean 4.868
Std Dev 1.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

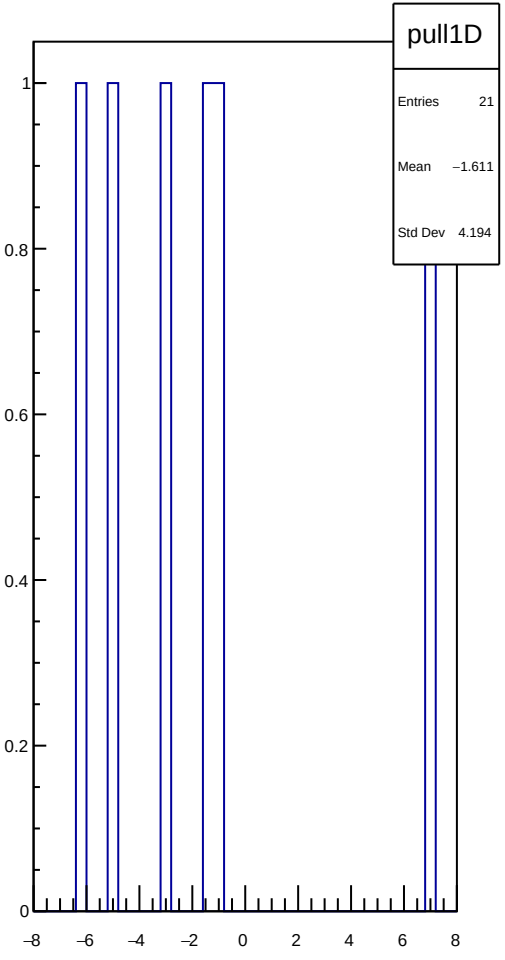

yield_cav4bQ_rms vs run
χ2 / ndf 4.158e+04 / 20
p0 0.5669 ± 0.0009639
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

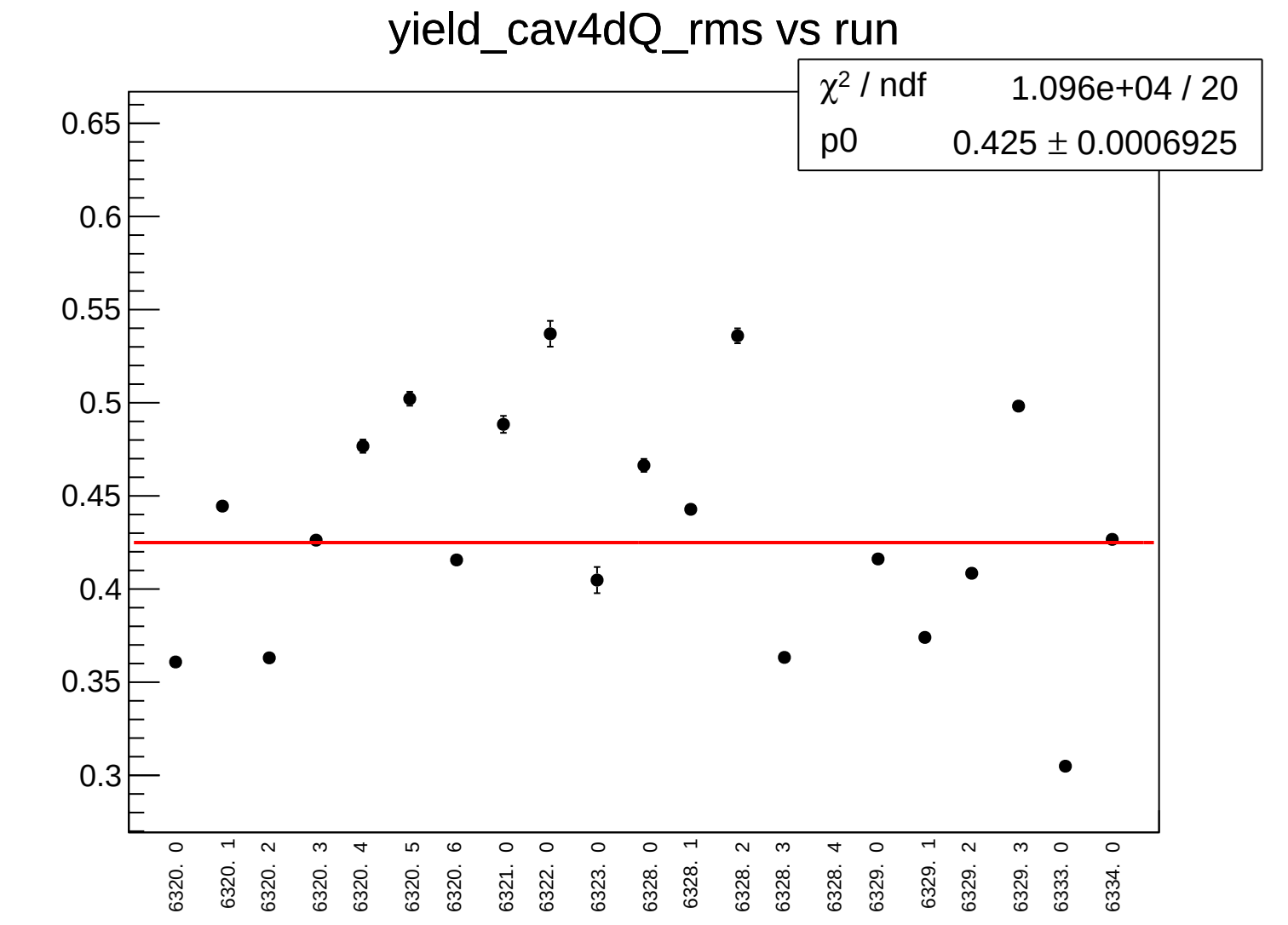

yield_cav4cQ_mean vs run
χ² / ndf 3.176e+05 / 20
p0 148.3 ± 0.002054
150.5
150
149.5
149
148.5
148
147.5
147
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.415
Std Dev 6.981
200
100
0
−100
−200

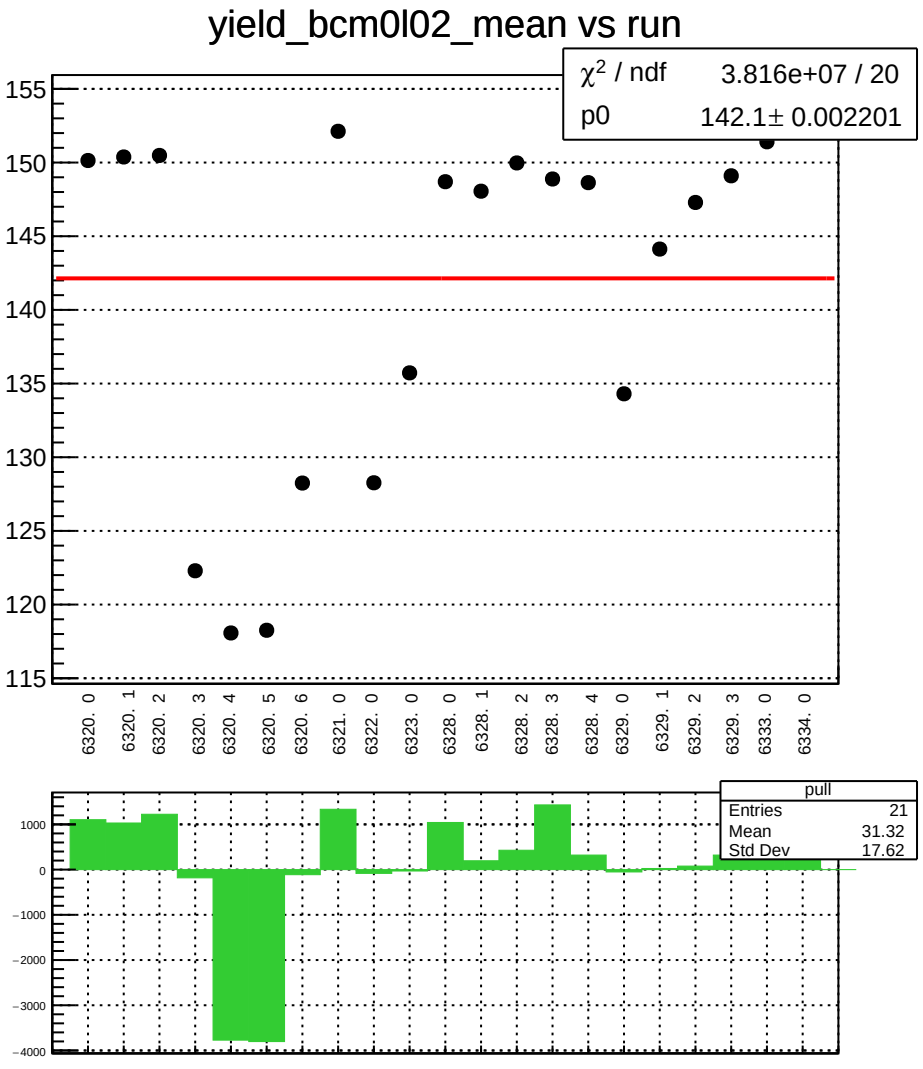

pull1D
Entries 21
Mean −2.289
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

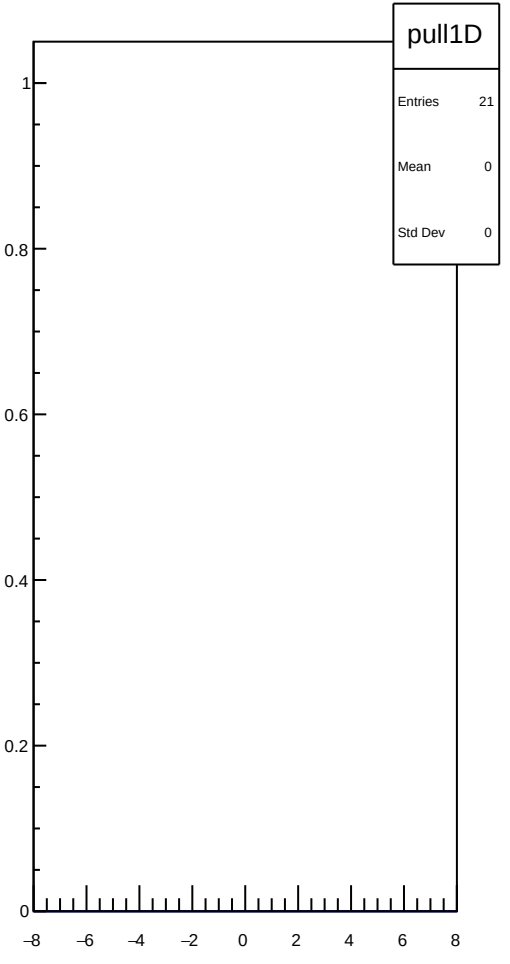

yield_cav4cQ_rms vs run
χ² / ndf 1.214e+05 / 20
p0 0.7491 ± 0.001452
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

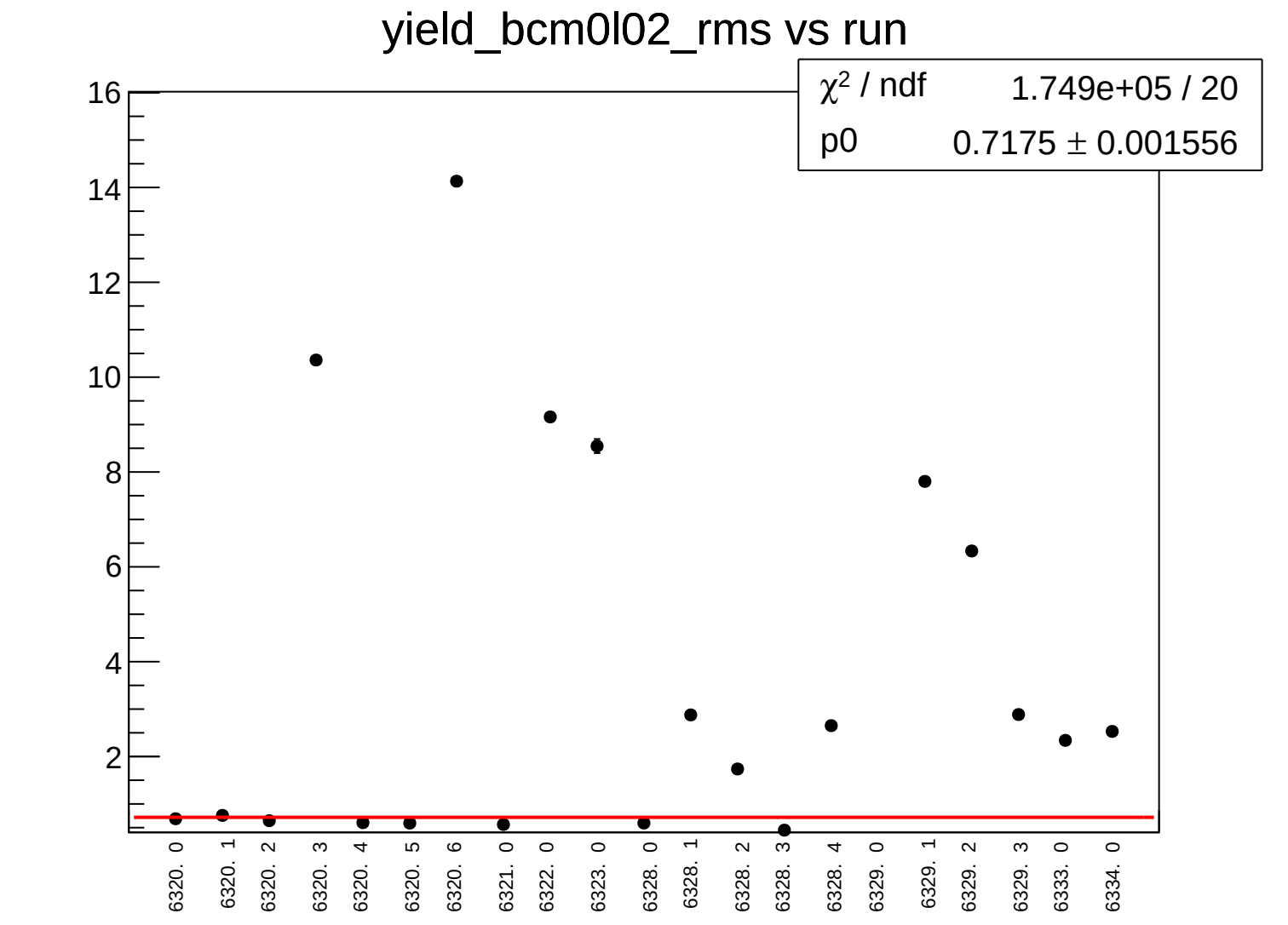

yield_cav4dQ_mean vs run
χ² / ndf 3.821e+05 / 20
p0 148.1± 0.0009794
149.5
149
148.5
148
147.5
147
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −121.5
Std Dev 132
300
200
100
0
−100
−200
−300

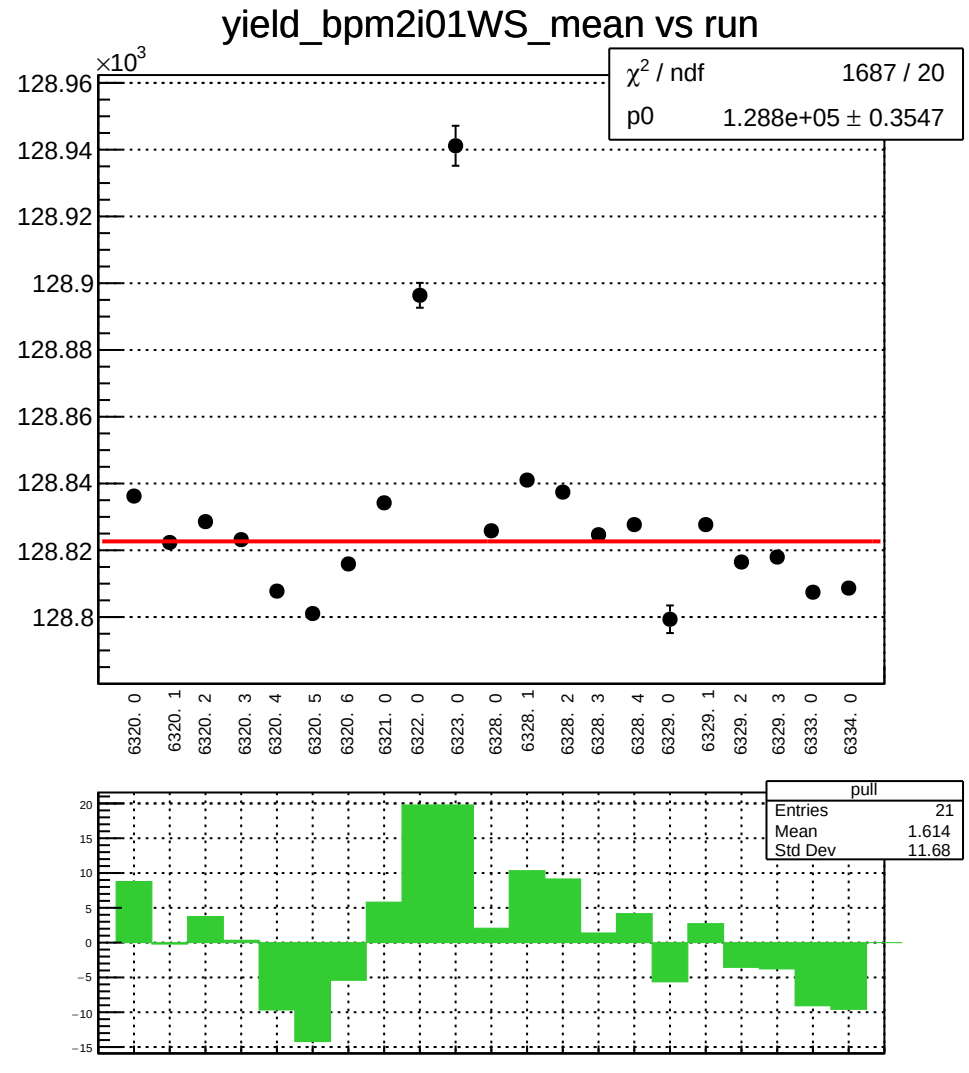

pull1D
Entries 21
Mean −1.611
Std Dev 4.194
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

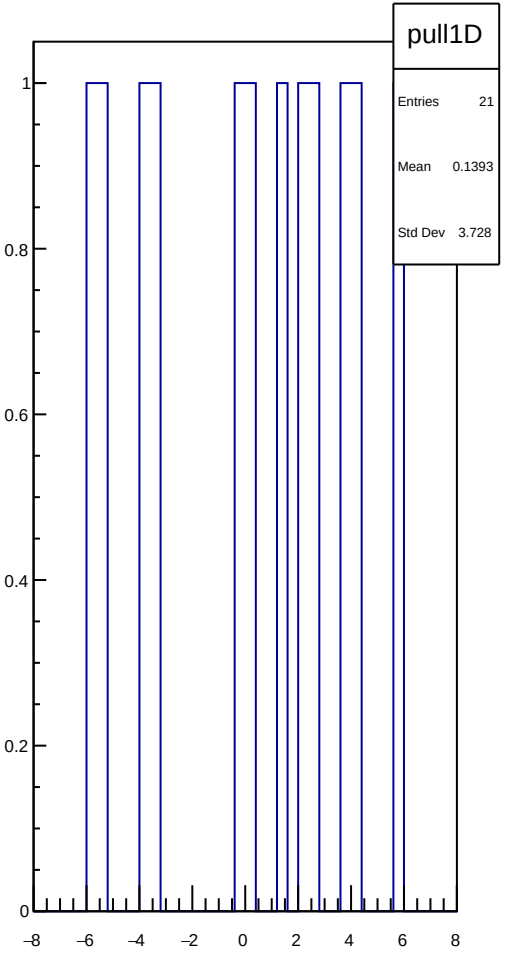

yield_cav4dQ_rms vs run
χ² / ndf 1.096e+04 / 20
p0 0.425 ± 0.0006925
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

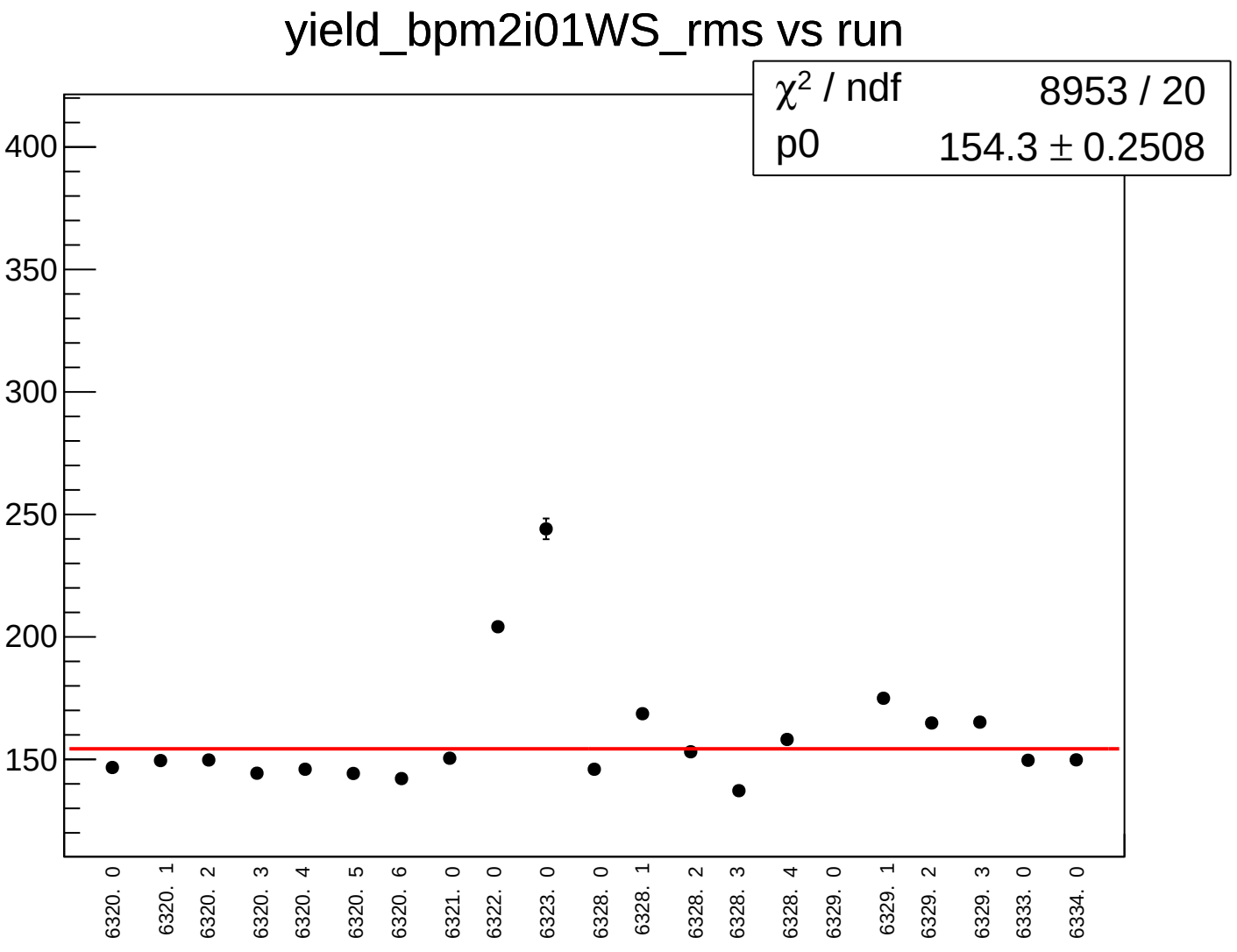

yield_bcm0l02_mean vs run
χ² / ndf 3.816e+07 / 20
p0 142.1± 0.002201
155
150
145
140
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 31.32
Std Dev 17.62
1000
0
−1000
−2000
−3000
−4000

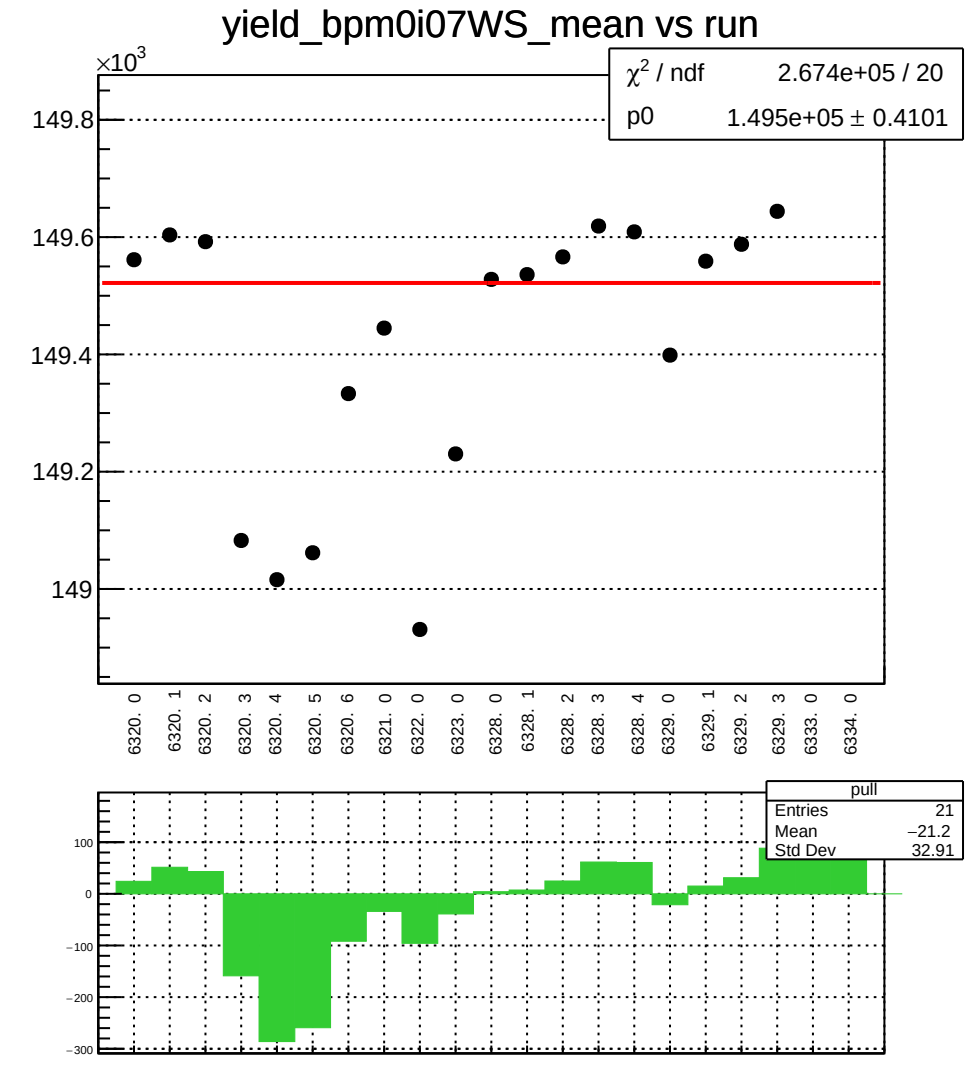

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

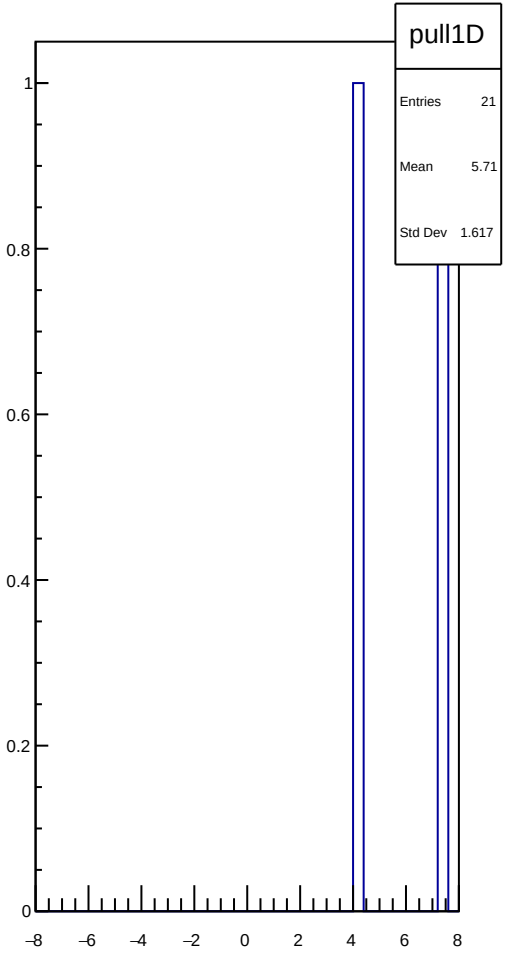

yield_bcm0l02_rms vs run
χ² / ndf 1.749e+05 / 20
p0 0.7175 ± 0.001556
16
14
12
10
8
6
4
2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

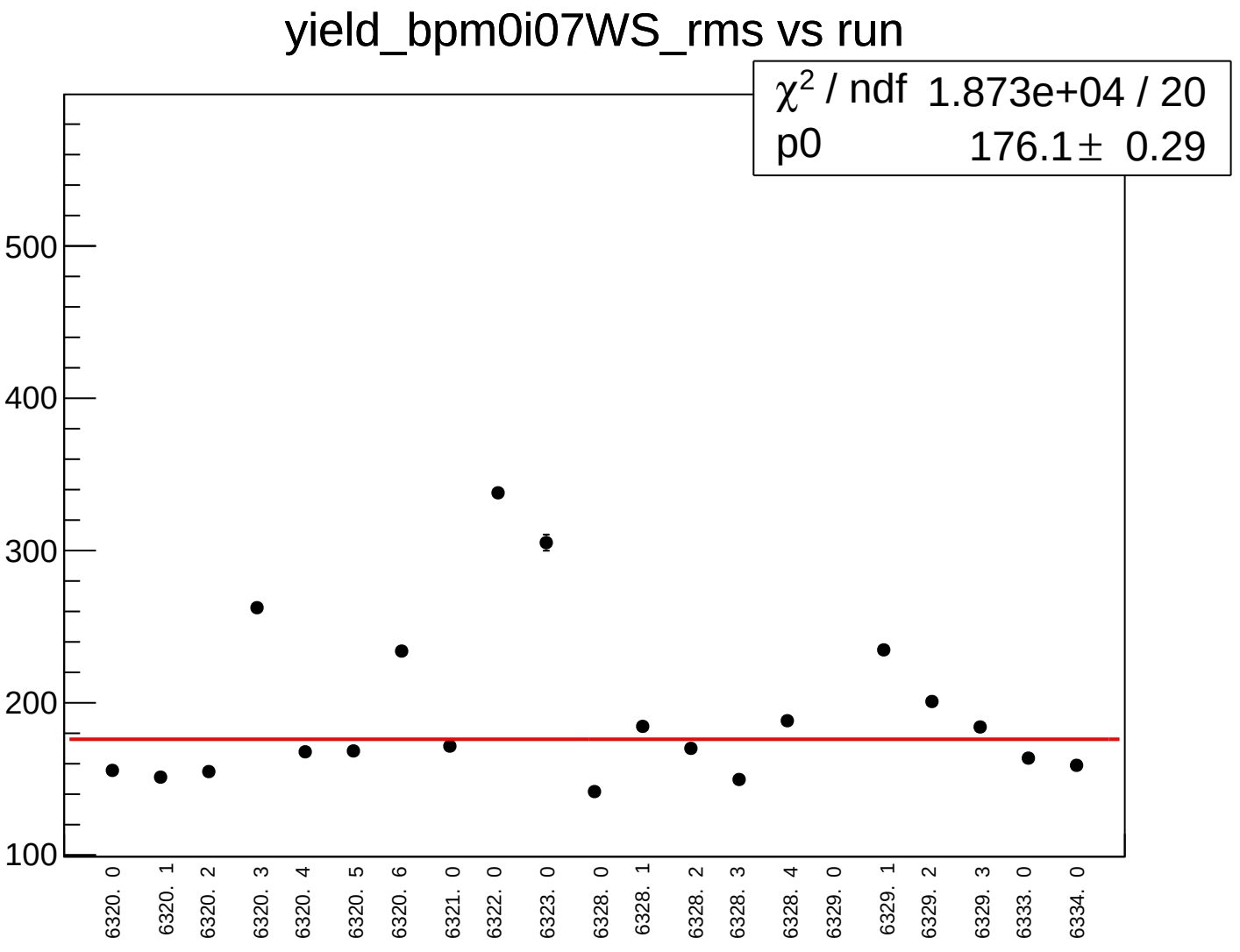

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 1687 / 20
p0 1.288e+05 ± 0.3547
128.96
128.94
128.92
128.9
128.88
128.86
128.84
128.82
128.8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.614
Std Dev 11.68
20
15
10
5
0
−5
−10
−15

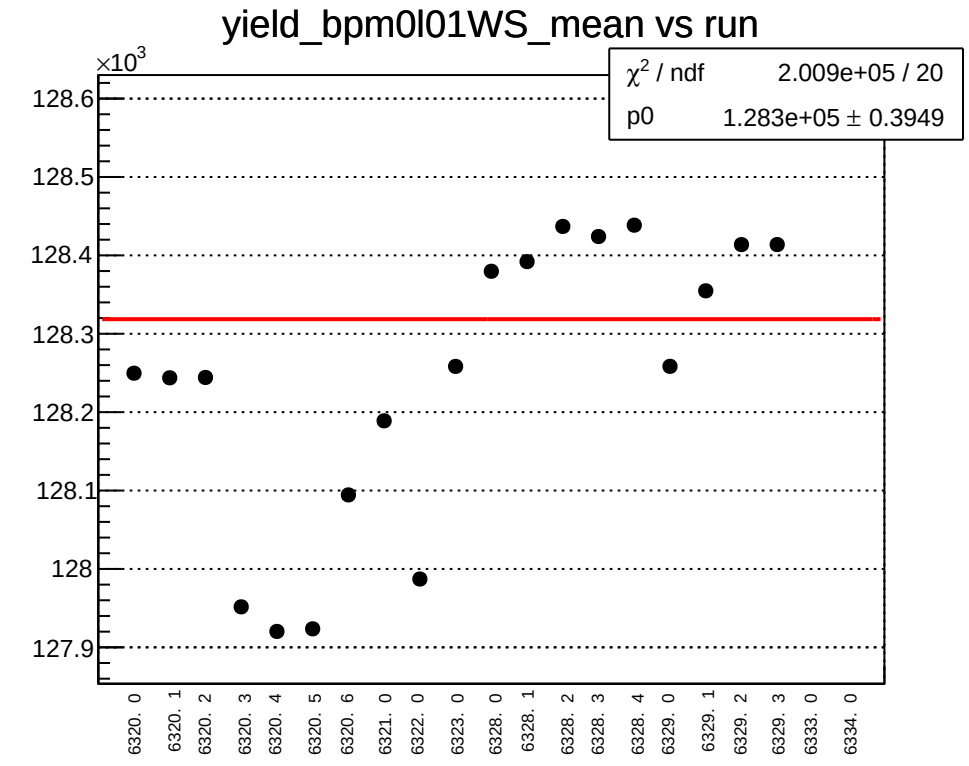

pull1D
Entries 21
Mean 0.1393
Std Dev 3.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

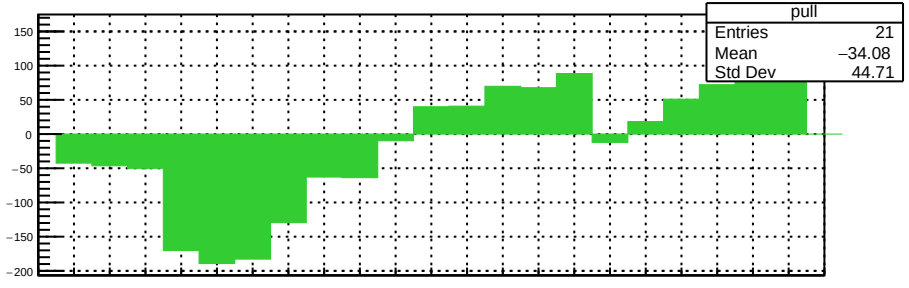

yield_bpm2i01WS_rms vs run
χ² / ndf 8953 / 20
p0 154.3 ± 0.2508
400
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

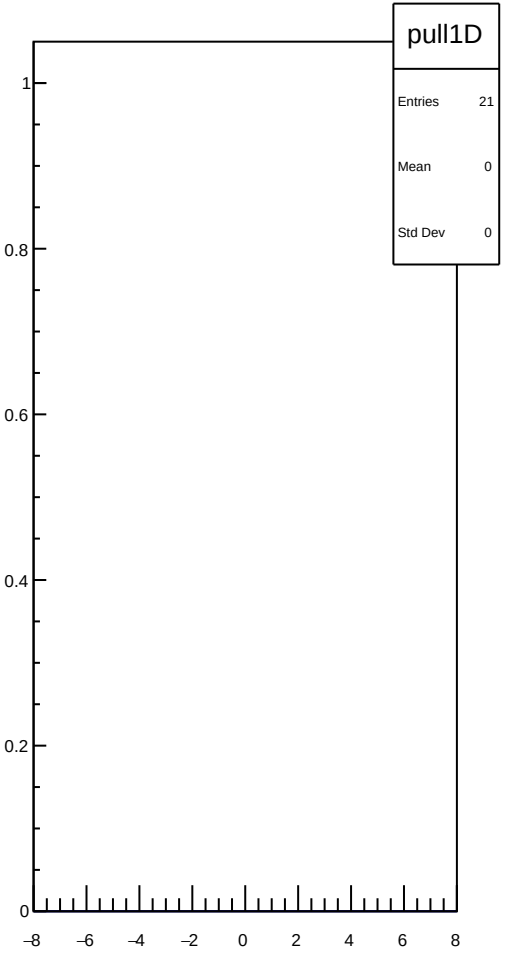

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.674e+05 / 20
p0 1.495e+05 ± 0.4101
149.8
149.6
149.4
149.2
149
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.2
Std Dev 32.91
100
0
−100
−200
−300

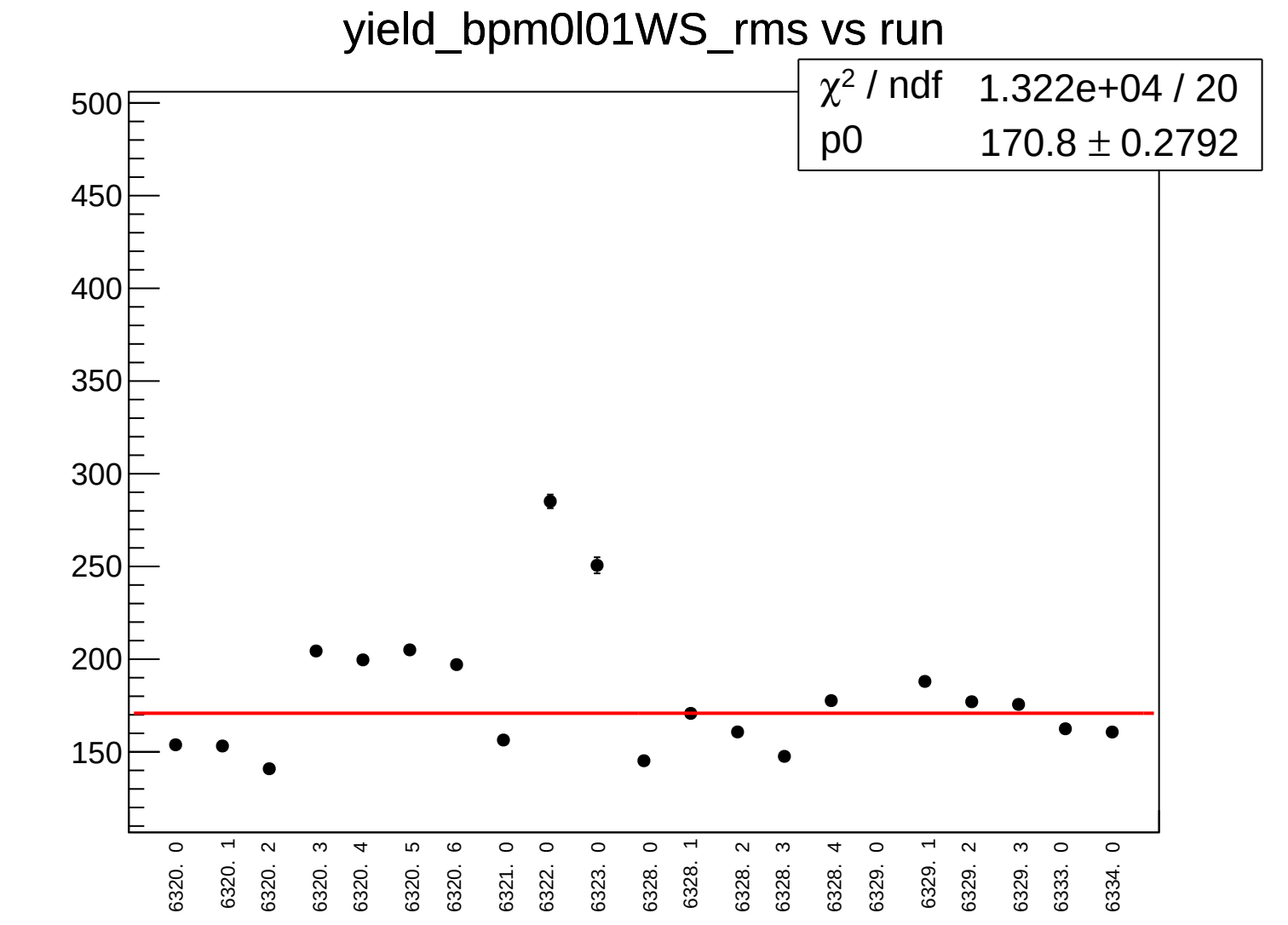

pull1D
Entries 21
Mean 5.71
Std Dev 1.617
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

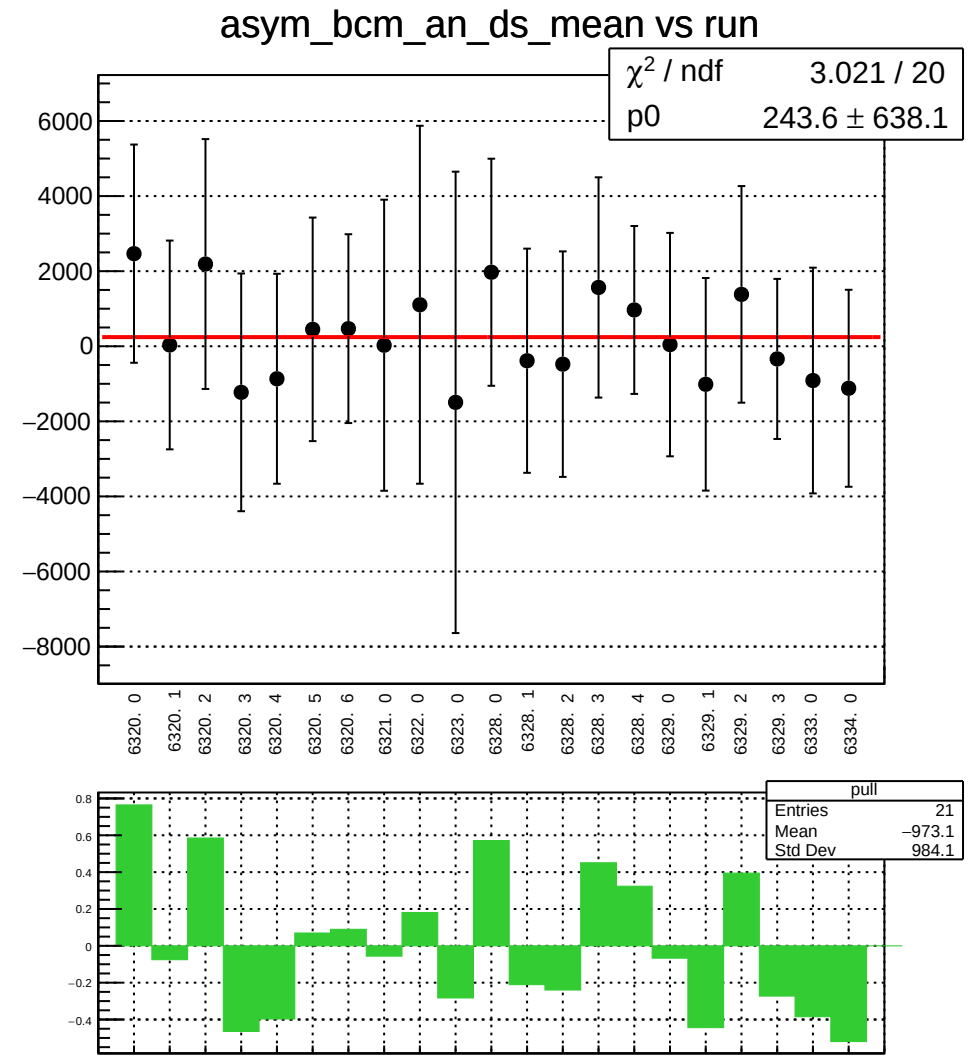

yield_bpm0i07WS_rms vs run
χ² / ndf 1.873e+04 / 20
p0 176.1 ± 0.29
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

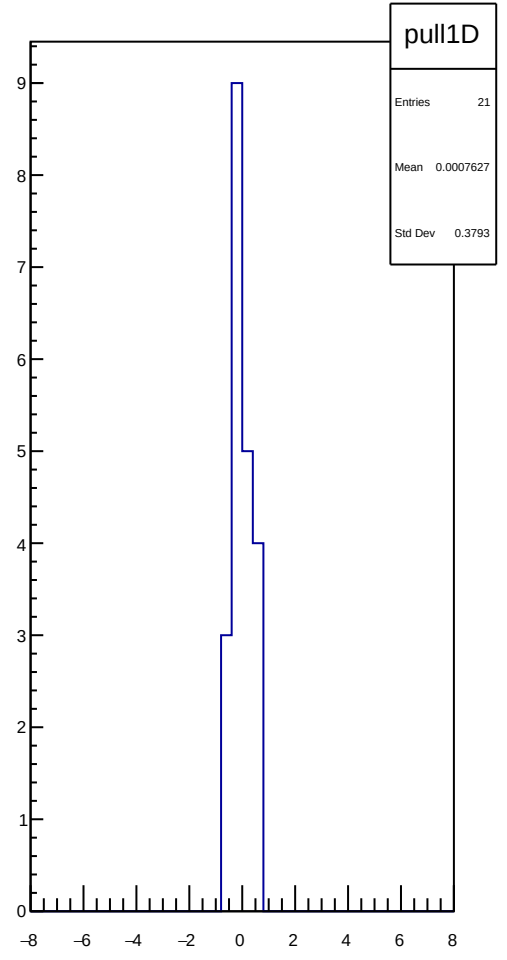

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.009e+05 / 20
p0 1.283e+05 ± 0.3949
128.6
128.5
128.4
128.3
128.2
128.1
128
127.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

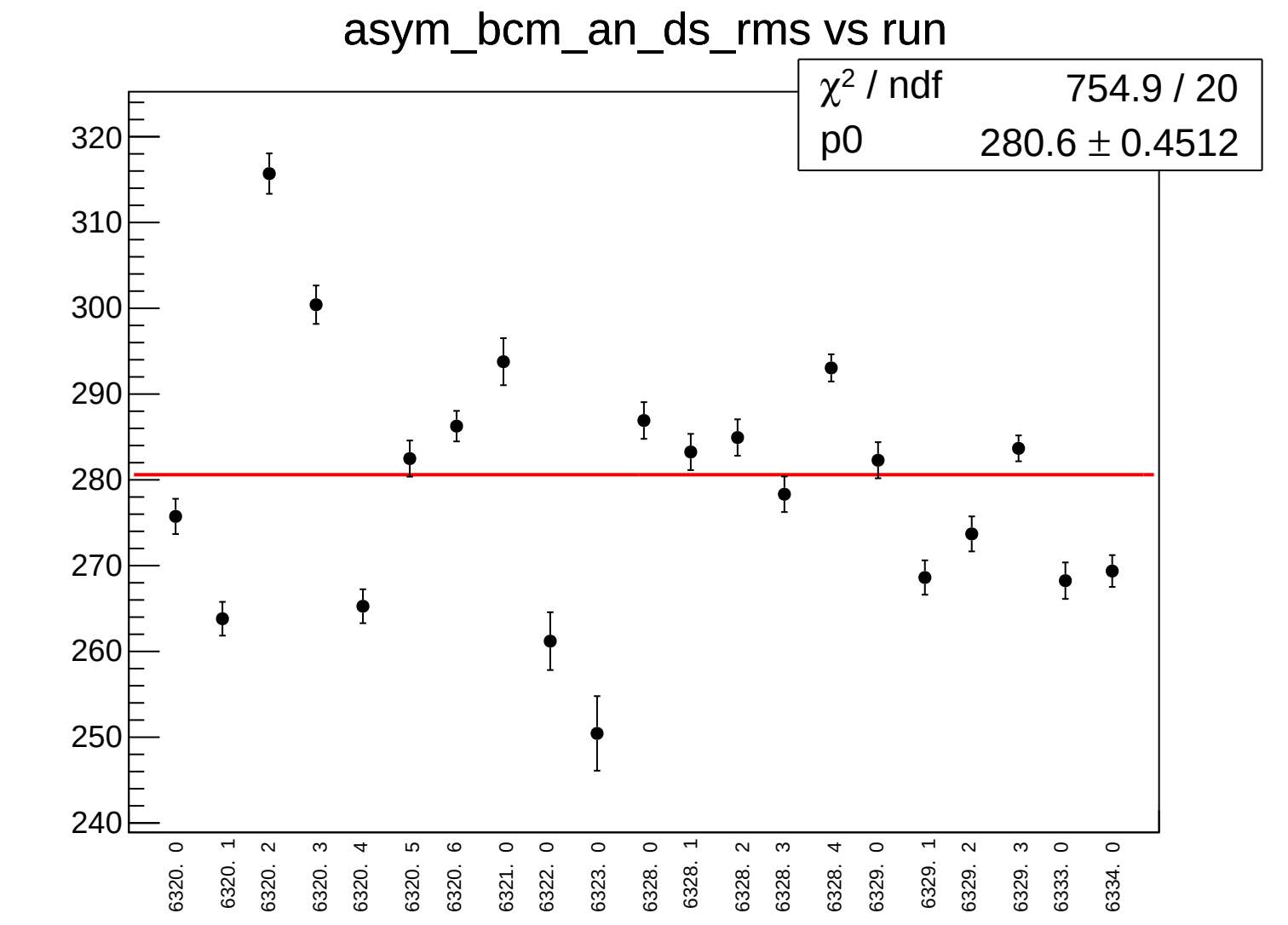

pull
Entries 21
Mean −34.08
Std Dev 44.71
150
100
50
0
−50
−100
−150
−200

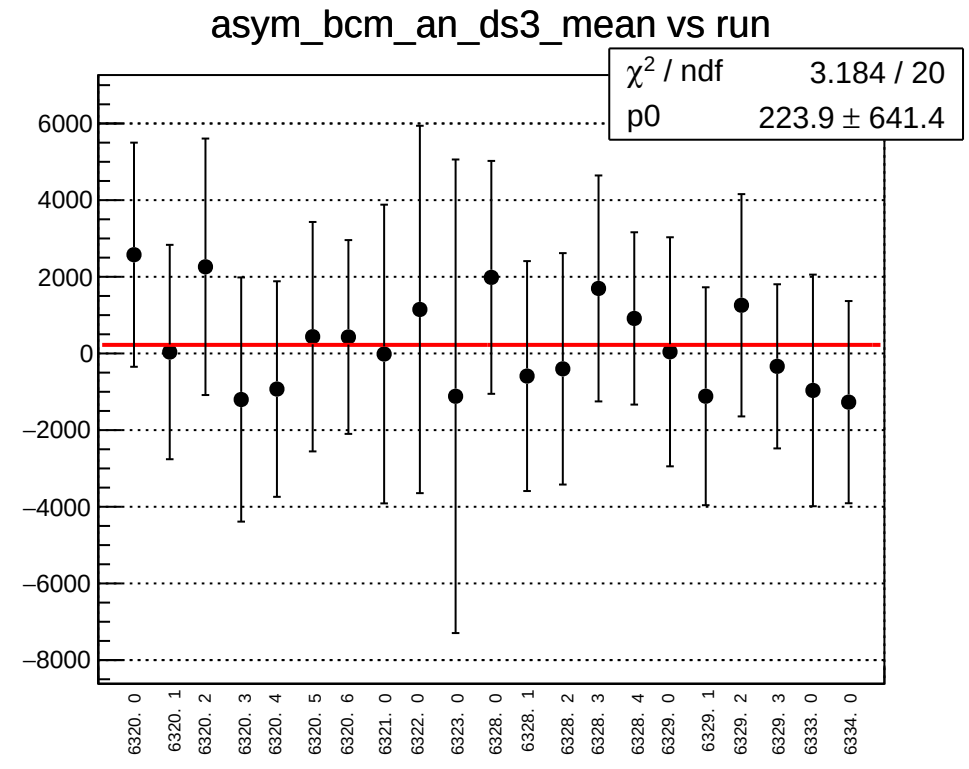

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

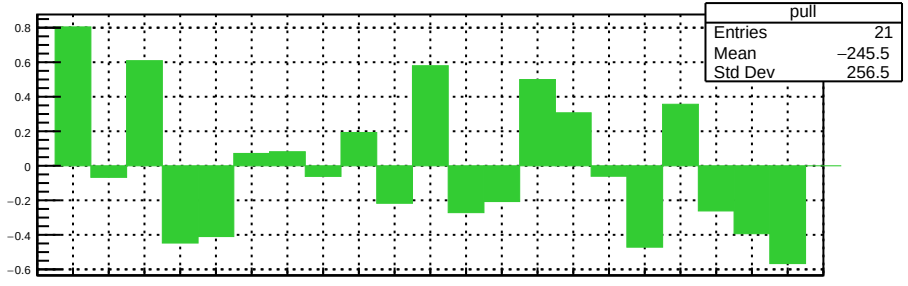

yield_bpm0l01WS_rms vs run
χ² / ndf 1.322e+04 / 20
p0 170.8 ± 0.2792
500
450
400
350
300
250
200
150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

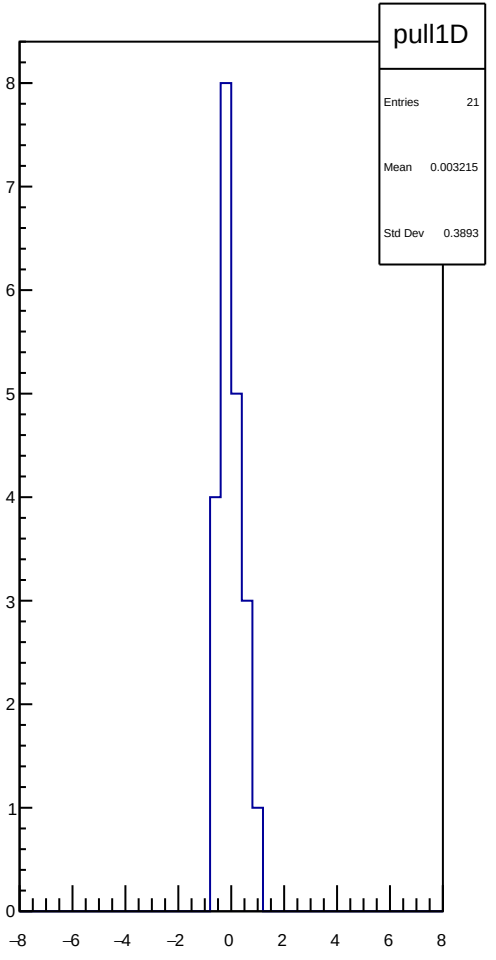

asym_bcm_an_ds_mean vs run
χ² / ndf 3.021 / 20
p0 243.6 ± 638.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −973.1
Std Dev 984.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

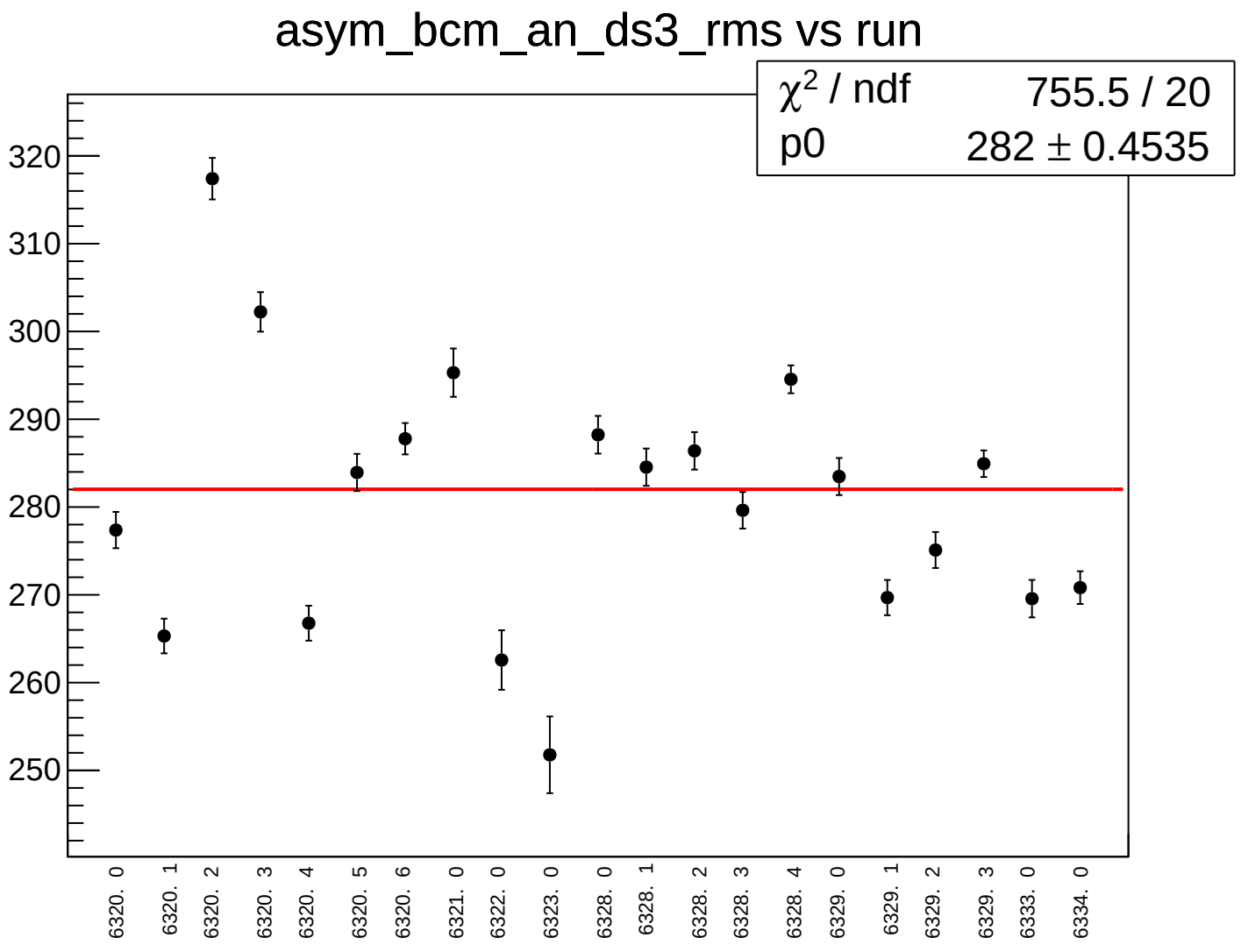

pull1D
Entries 21
Mean 0.0007627
Std Dev 0.3793
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

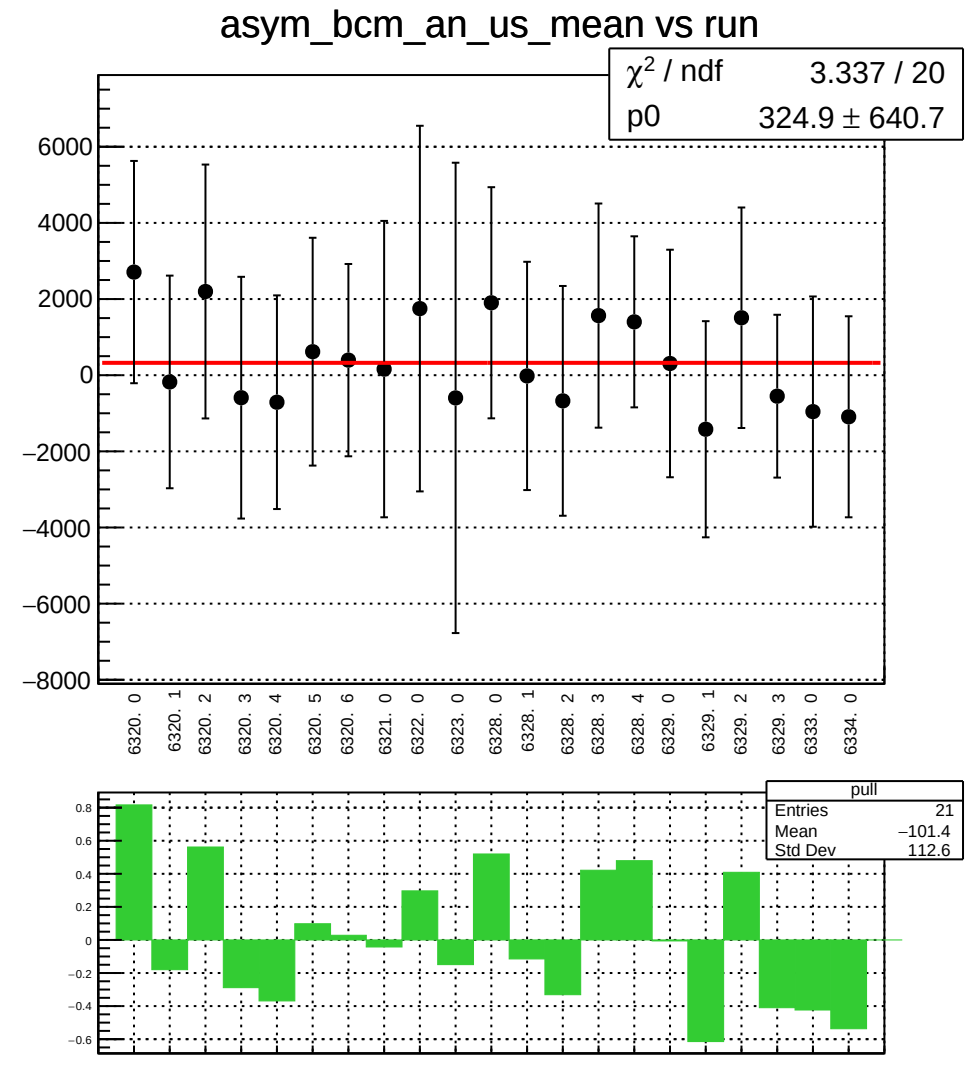

asym_bcm_an_ds_rms vs run
χ² / ndf 754.9 / 20
p0 280.6 ± 0.4512
320
310
300
290
280
270
260
250
240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

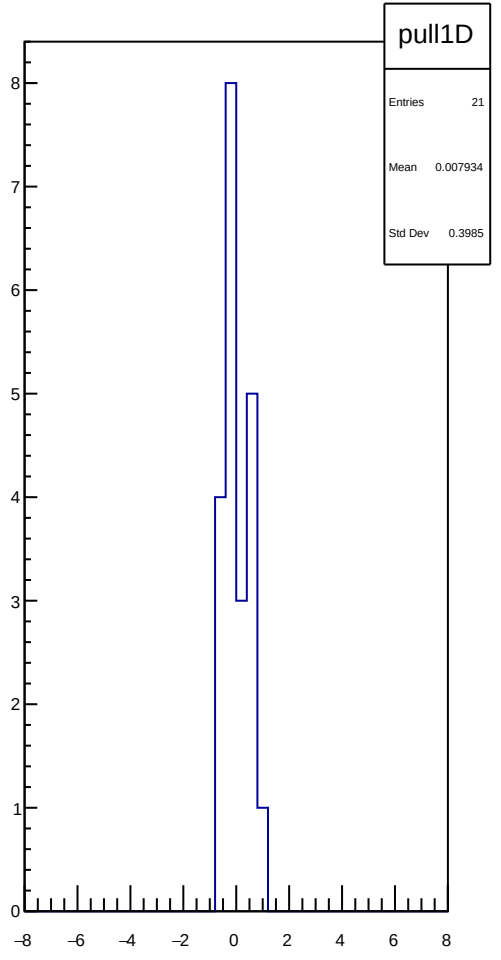

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.184 / 20
p0 223.9 ± 641.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

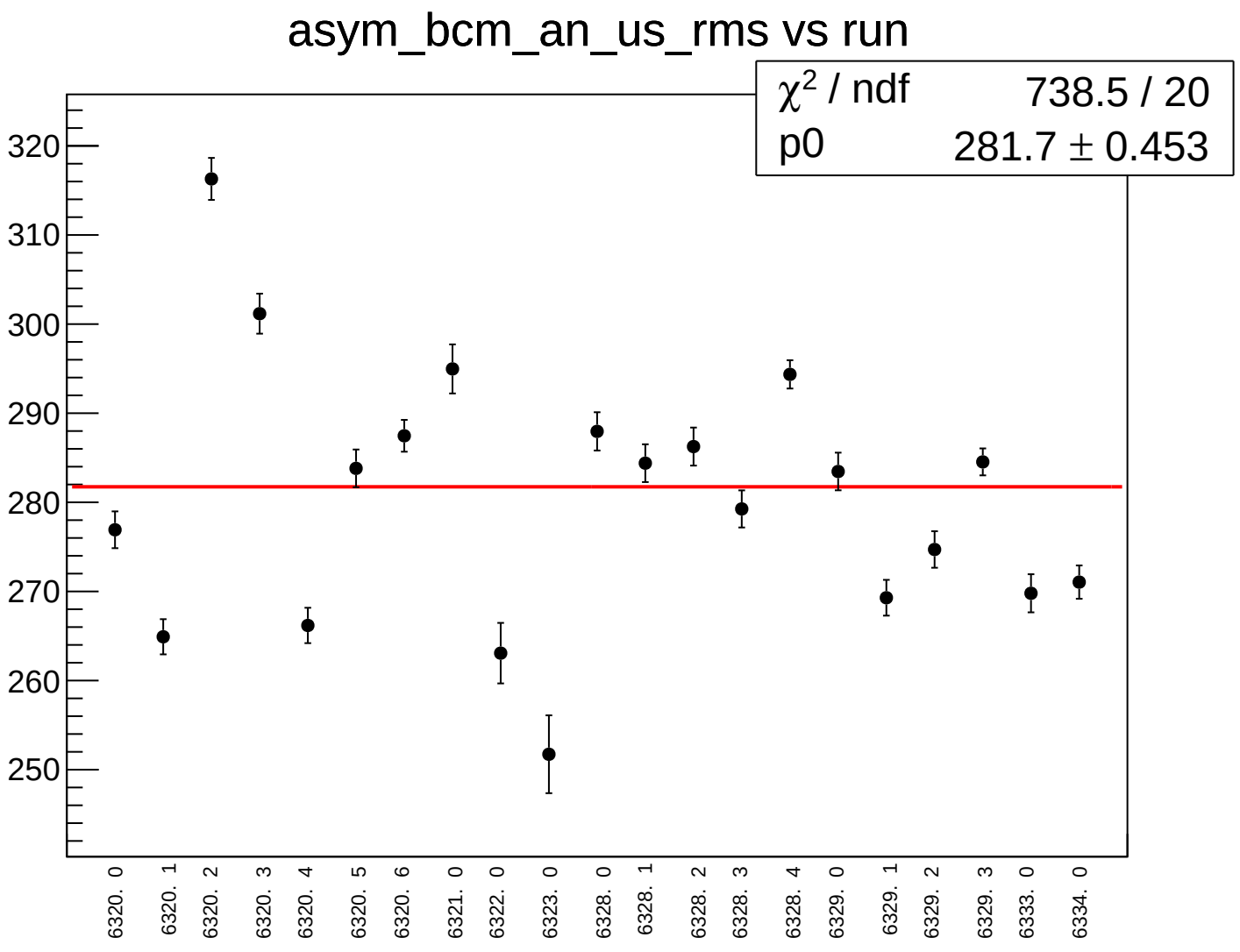

pull
Entries 21
Mean −245.5
Std Dev 256.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

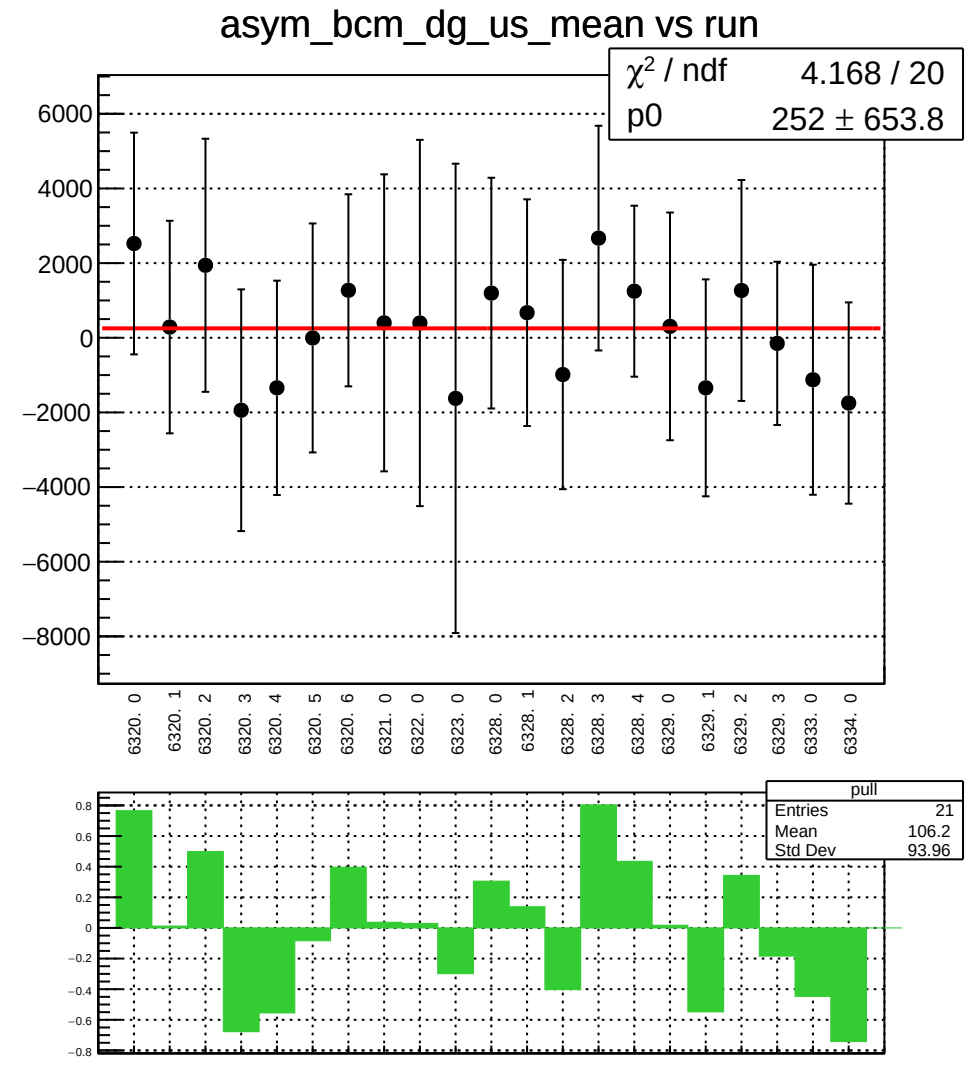

pull1D
Entries 21
Mean 0.003215
Std Dev 0.3893
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

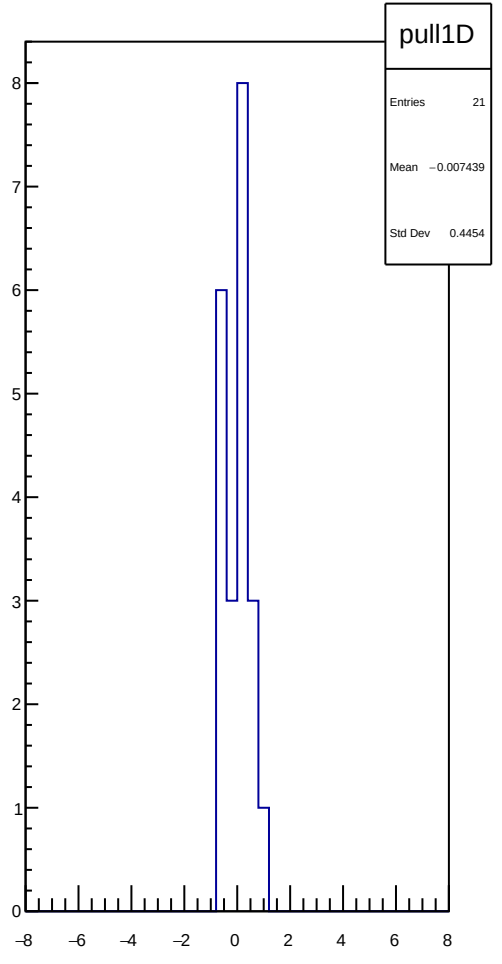

asym_bcm_an_ds3_rms vs run
χ² / ndf 755.5 / 20
p0 282 ± 0.4535
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

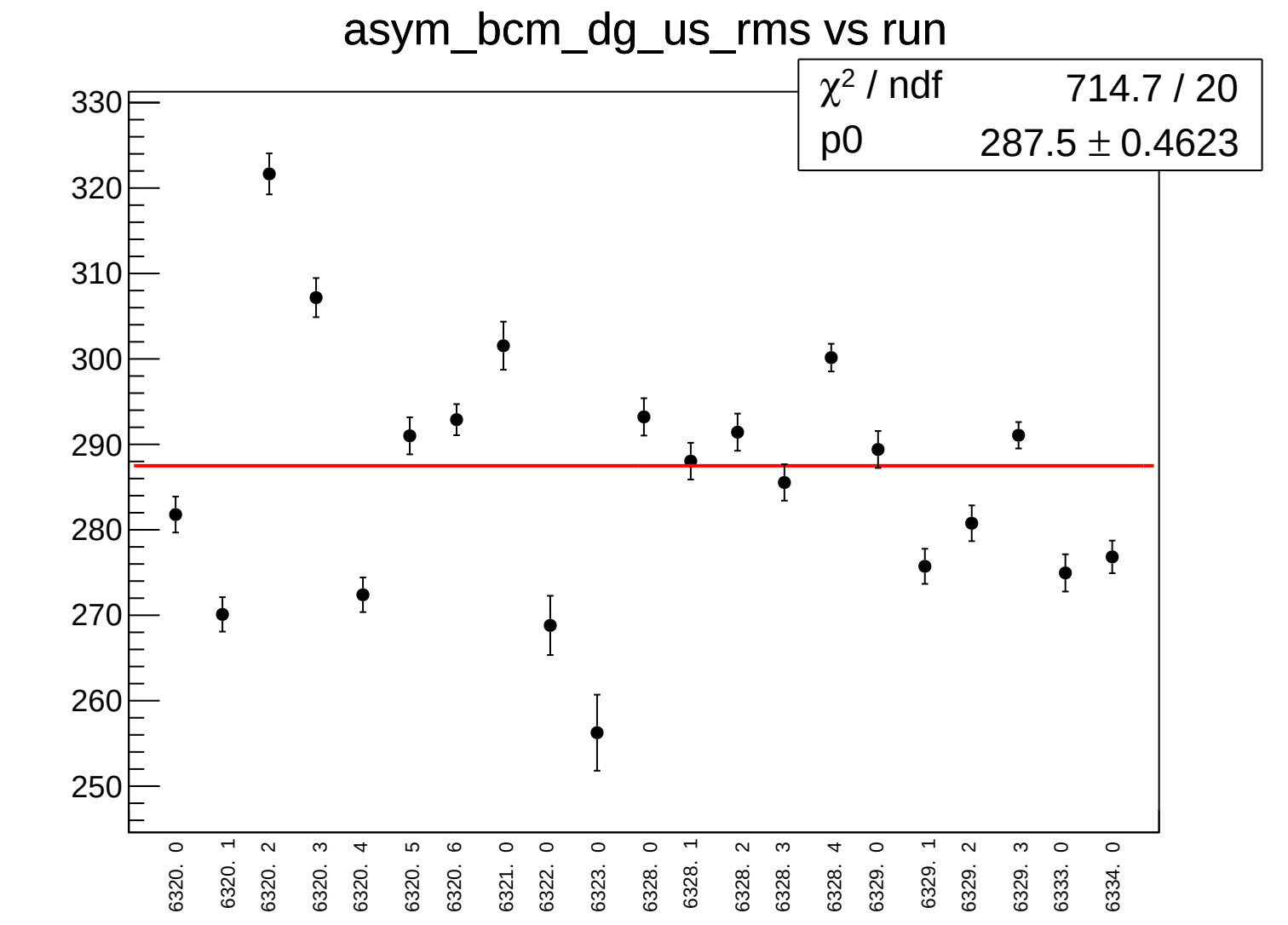

asym_bcm_an_us_mean vs run
χ² / ndf 3.337 / 20
p0 324.9 ± 640.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −101.4
Std Dev 112.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

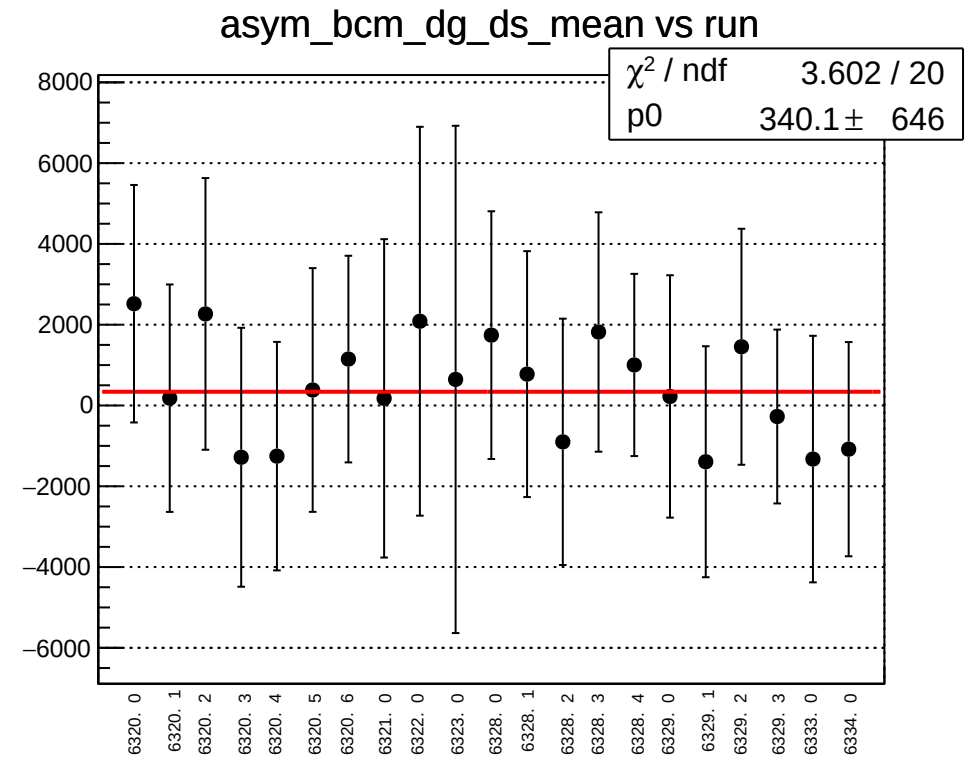

pull1D
Entries 21
Mean 0.007934
Std Dev 0.3985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

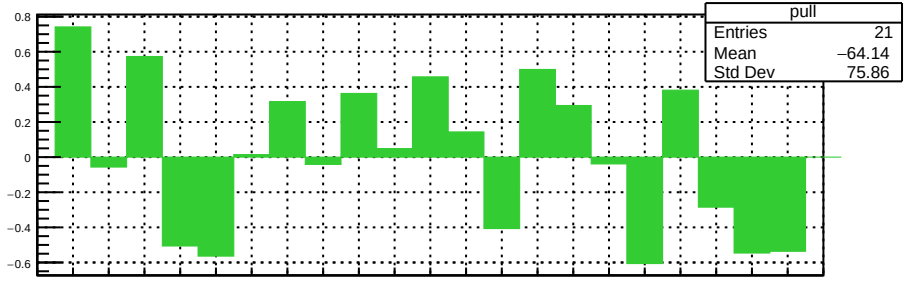

asym_bcm_an_us_rms vs run
χ² / ndf 738.5 / 20
p0 281.7 ± 0.453
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

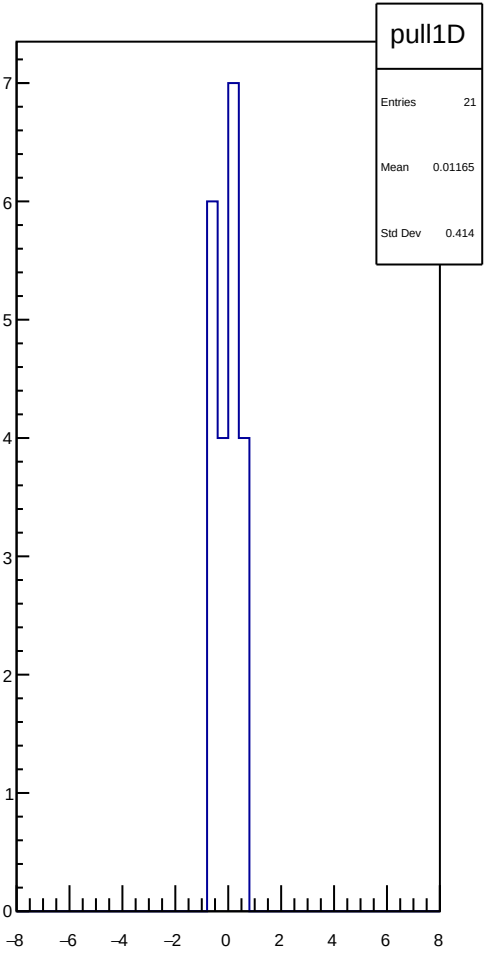

asym_bcm_dg_us_mean vs run
χ² / ndf 4.168 / 20
p0 252 ± 653.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 106.2
Std Dev 93.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

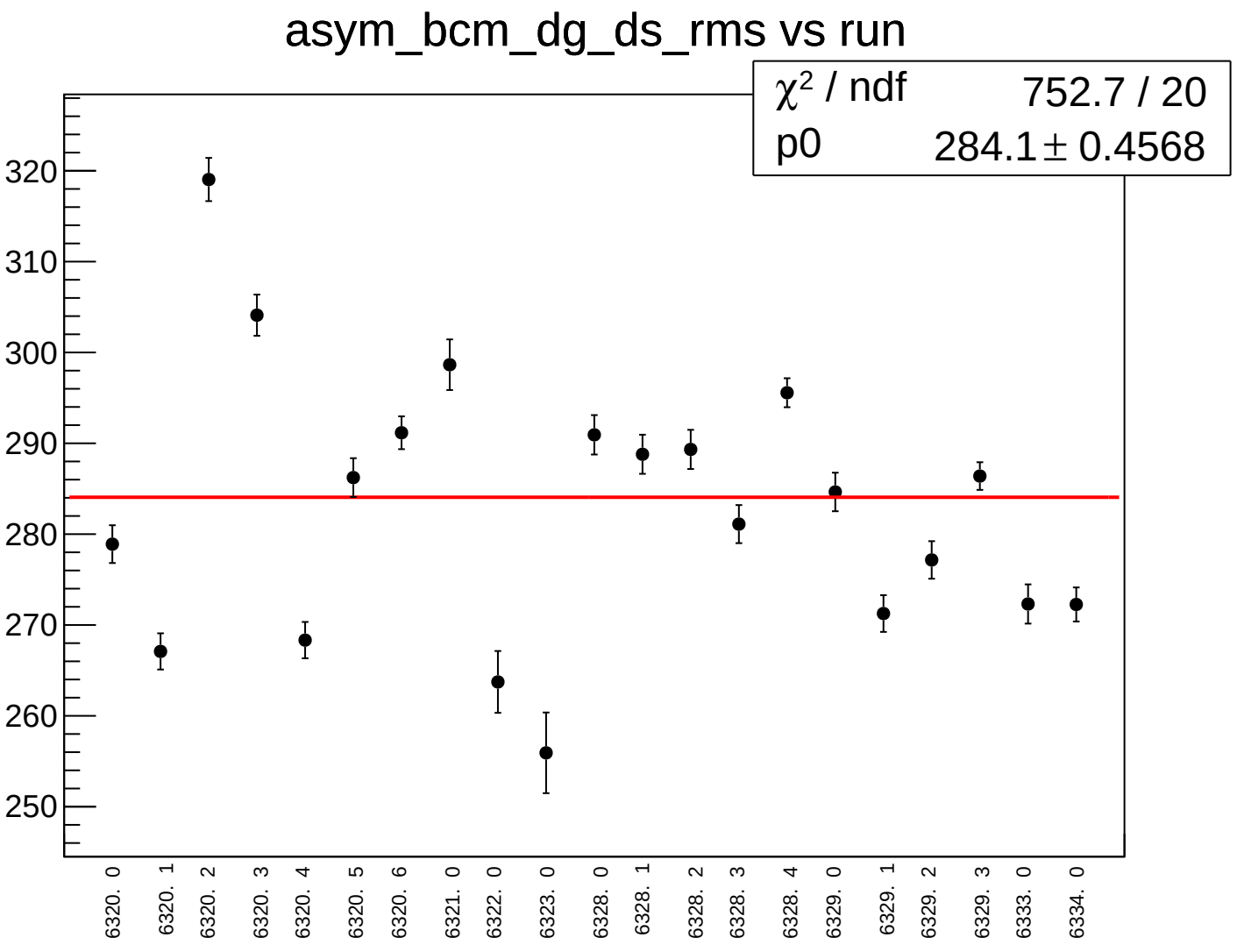

pull1D
Entries 21
Mean −0.007439
Std Dev 0.4454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

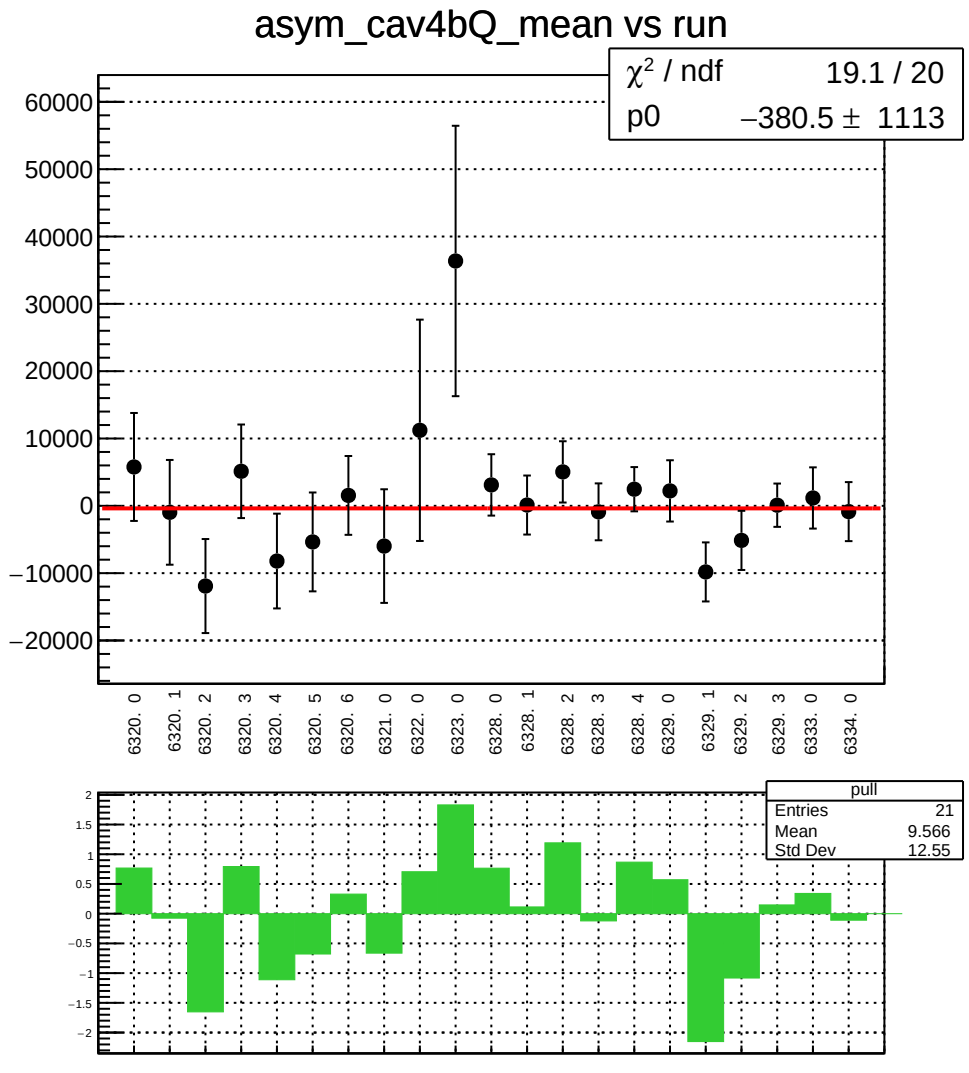

asym_bcm_dg_us_rms vs run
χ² / ndf 714.7 / 20
p0 287.5 ± 0.4623
330
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

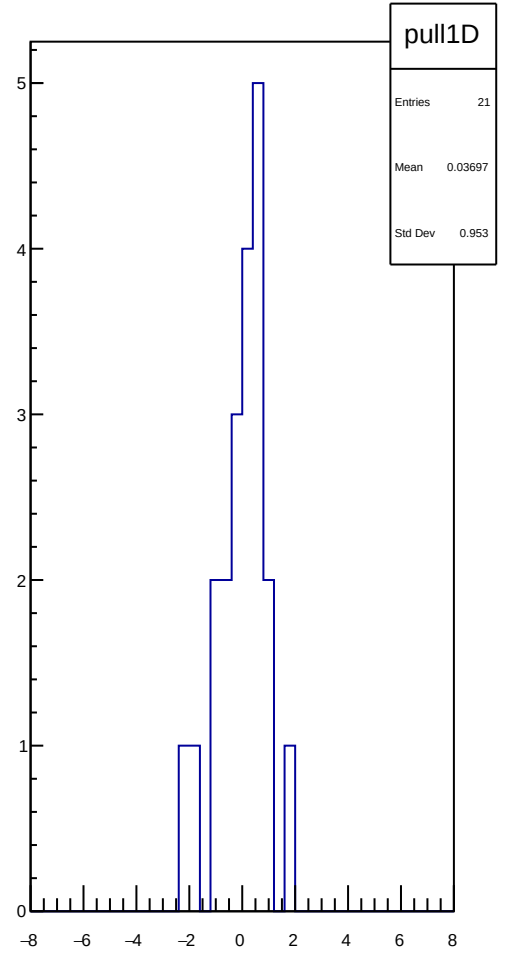

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.602 / 20
p0 340.1 ± 646
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

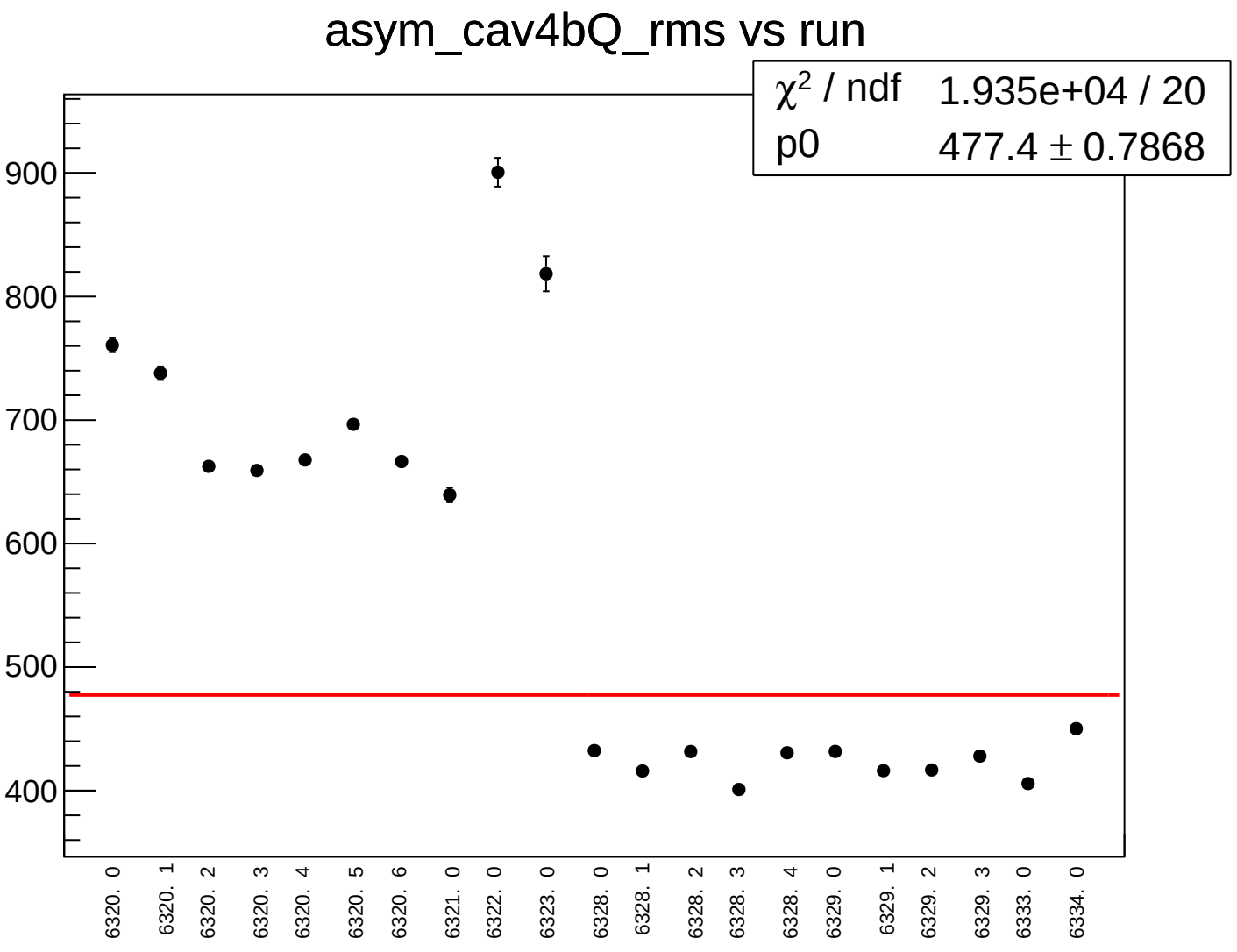

pull
Entries 21
Mean −64.14
Std Dev 75.86
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

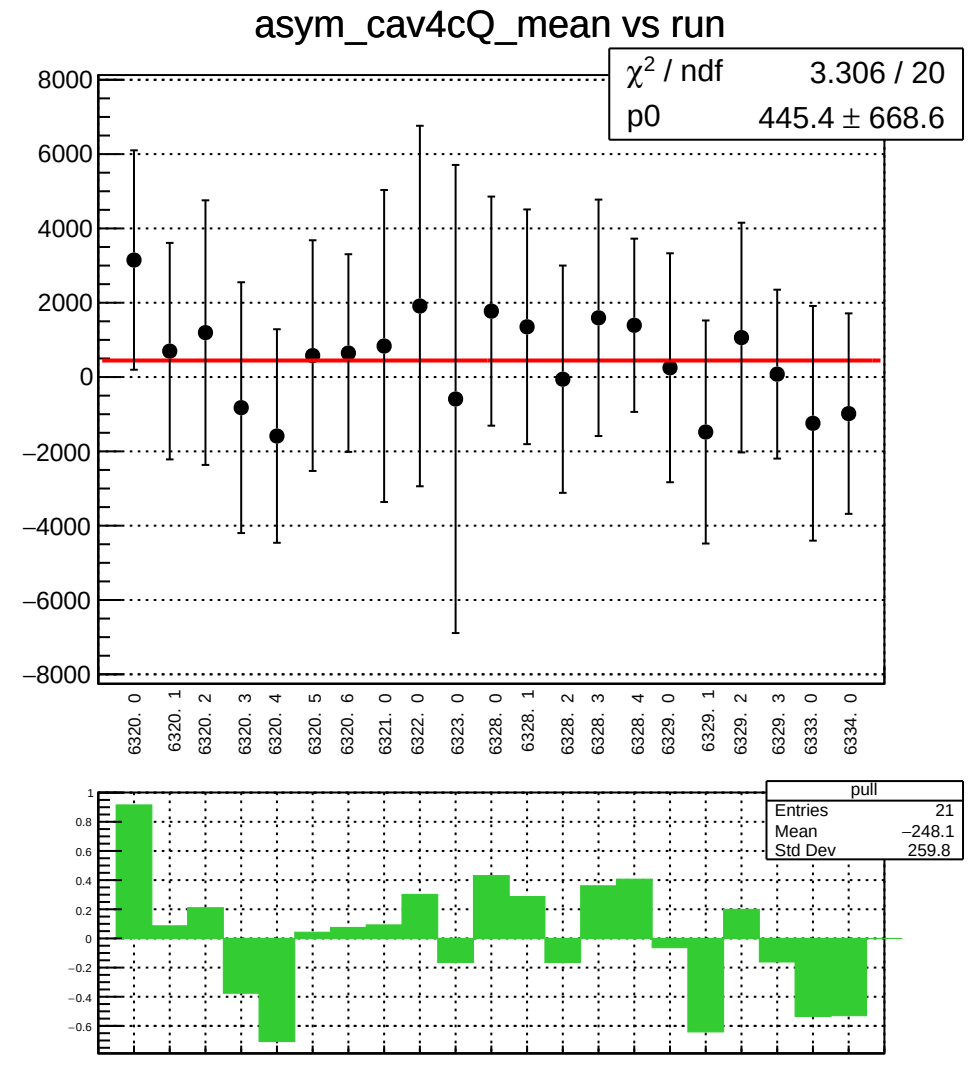

pull1D
Entries 21
Mean 0.01165
Std Dev 0.414
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

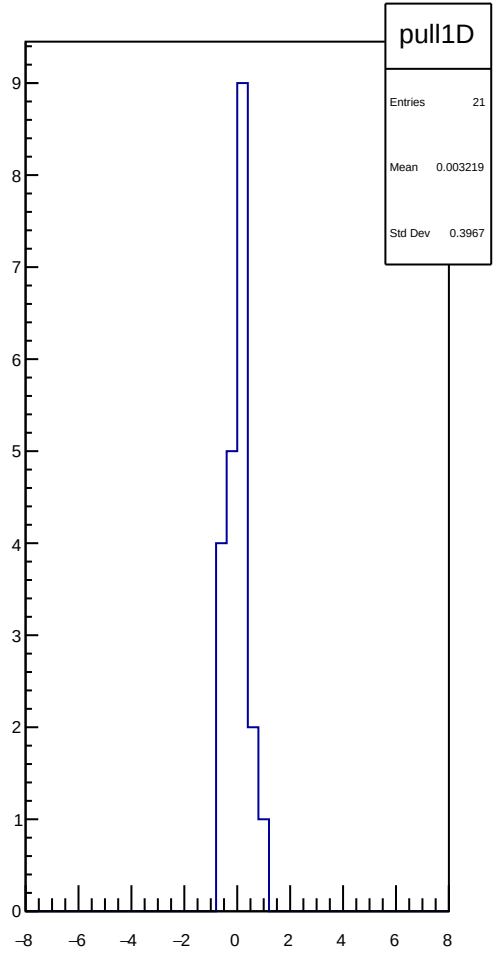

asym_bcm_dg_ds_rms vs run
χ² / ndf 752.7 / 20
p0 284.1 ± 0.4568
320
310
300
290
280
270
260
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

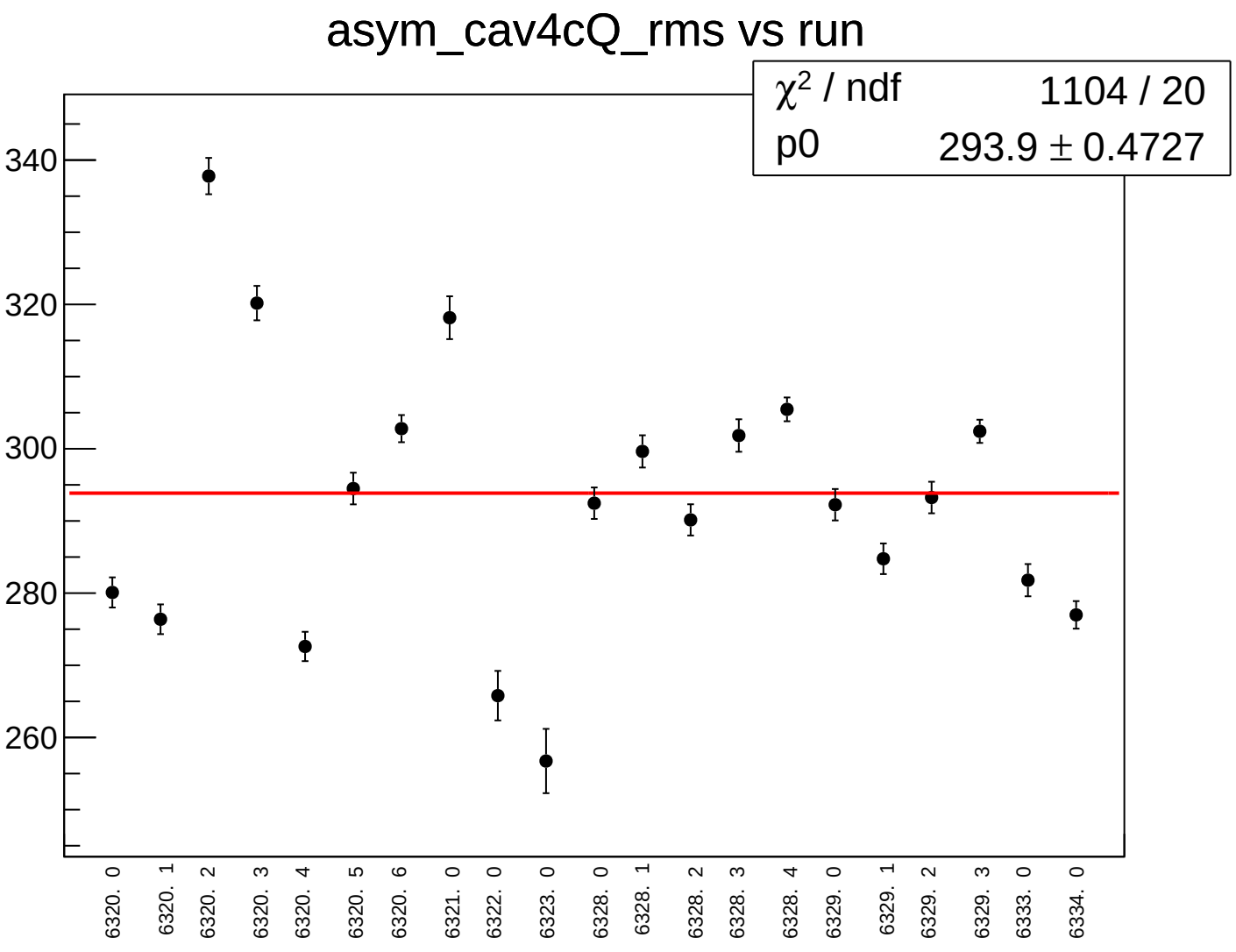

asym_cav4bQ_mean vs run
χ² / ndf 19.1 / 20
p0 −380.5 ± 1113
60000
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.566
Std Dev 12.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

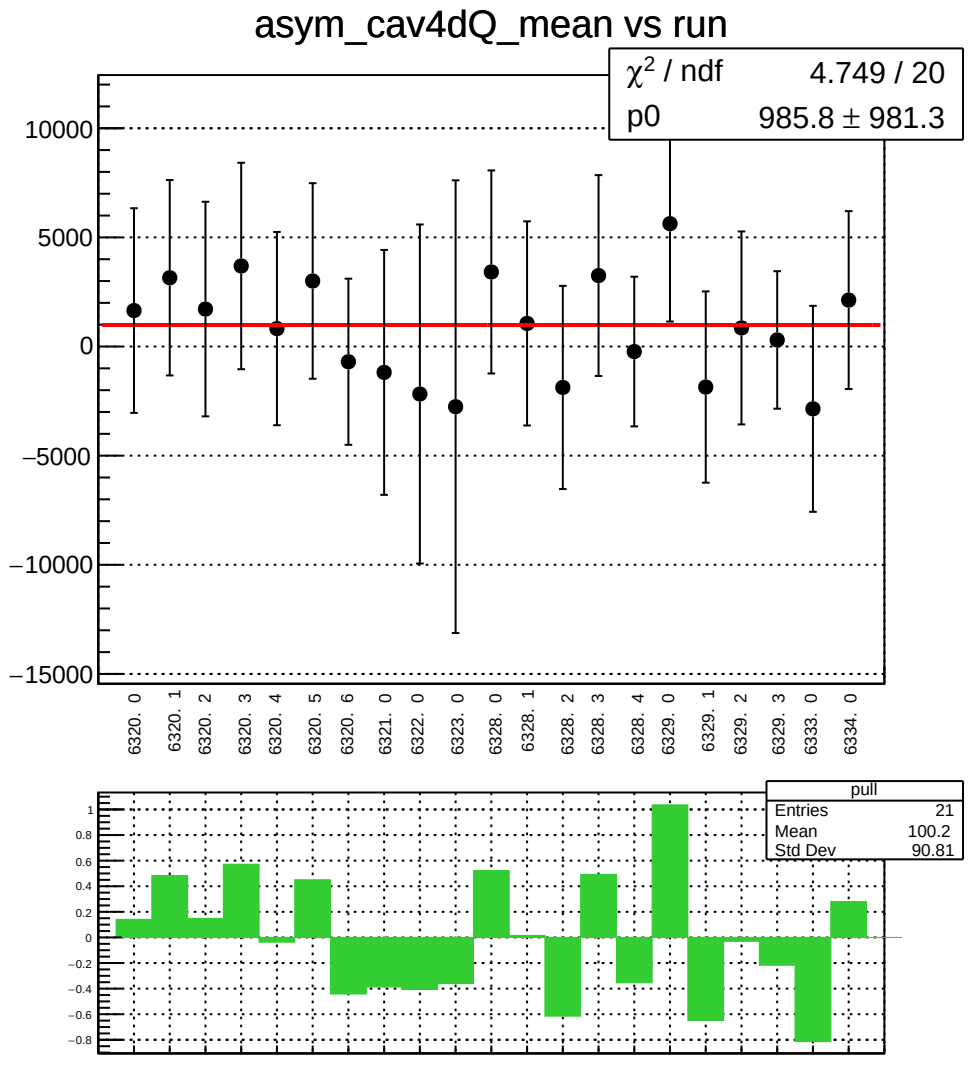

pull1D
Entries 21
Mean 0.03697
Std Dev 0.953
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

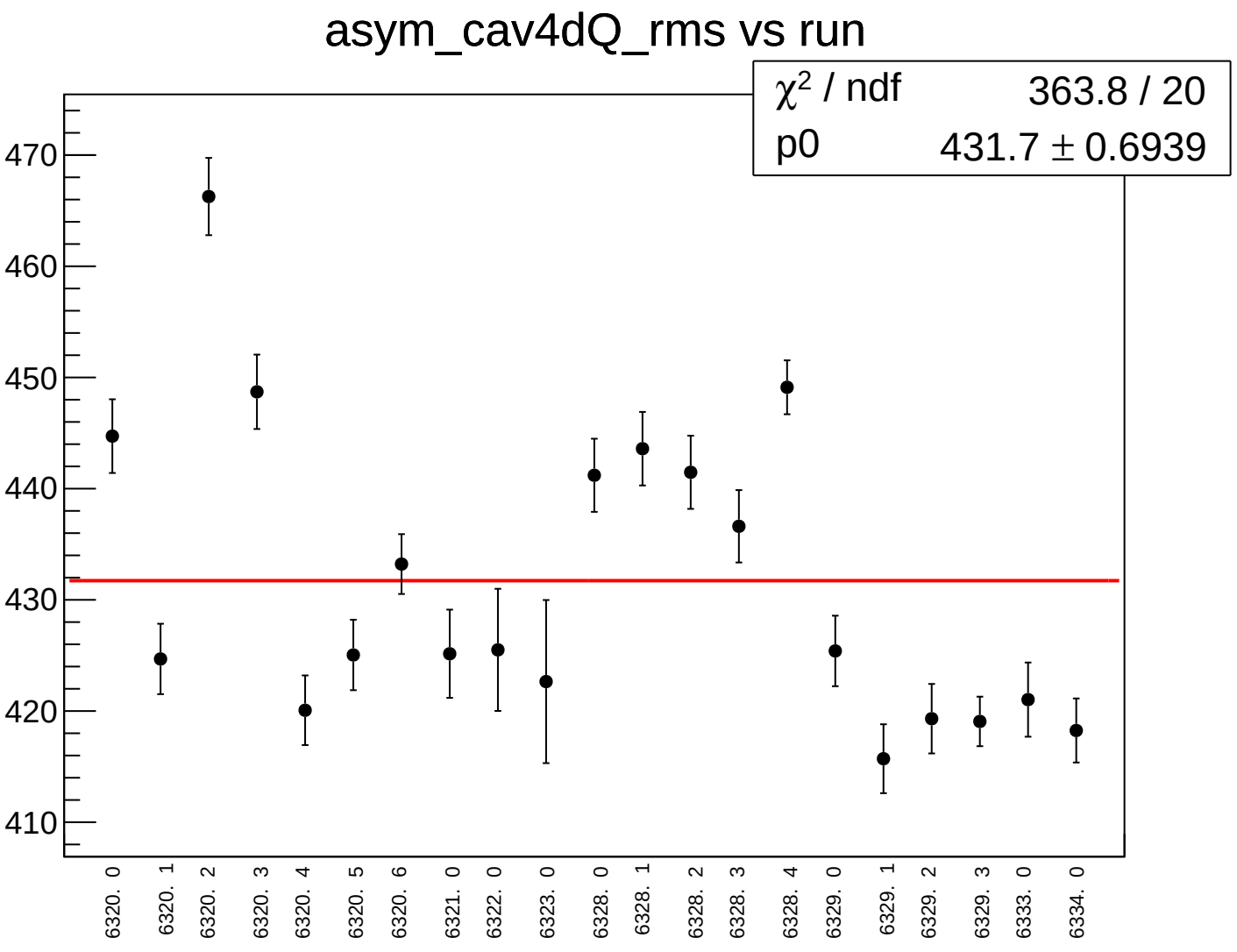

asym_cav4bQ_rms vs run
χ² / ndf 1.935e+04 / 20
p0 477.4 ± 0.7868
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

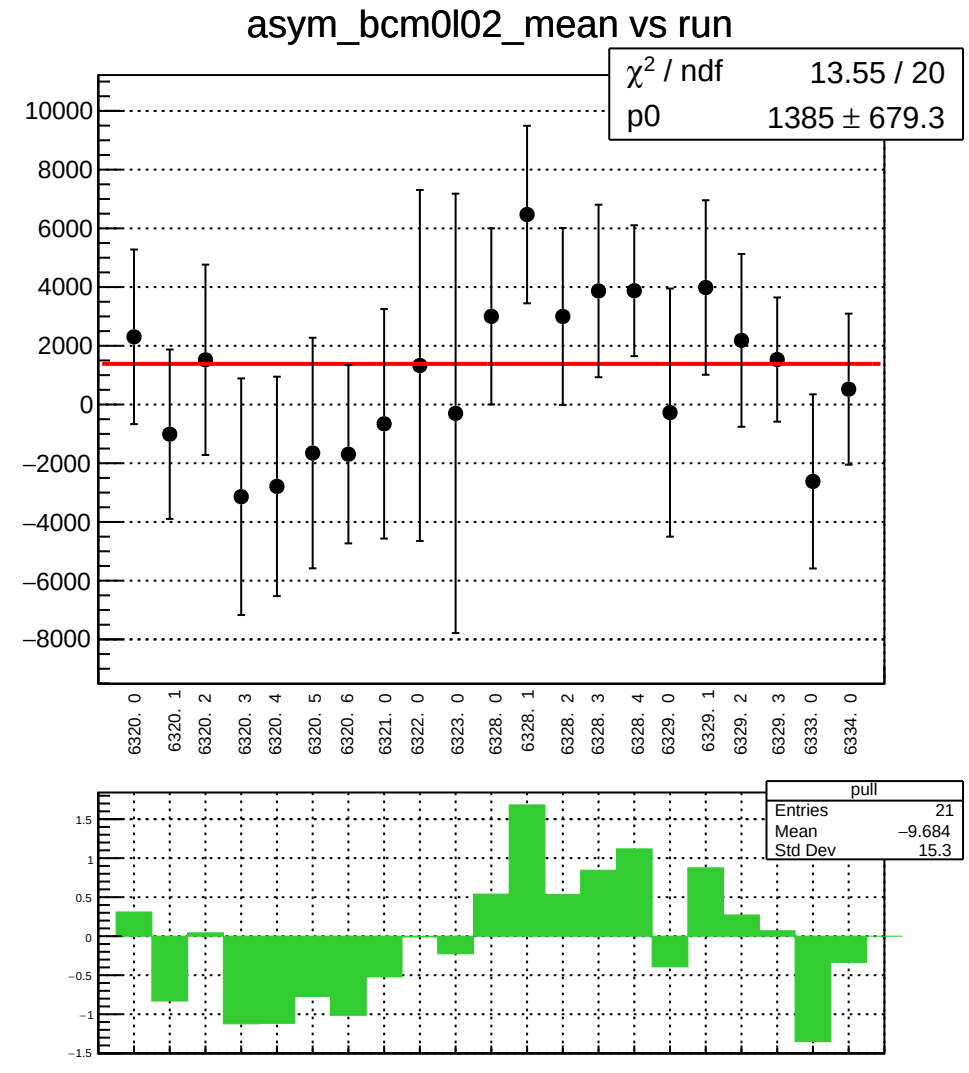

asym_cav4cQ_mean vs run
χ² / ndf 3.306 / 20
p0 445.4 ± 668.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −248.1
Std Dev 259.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

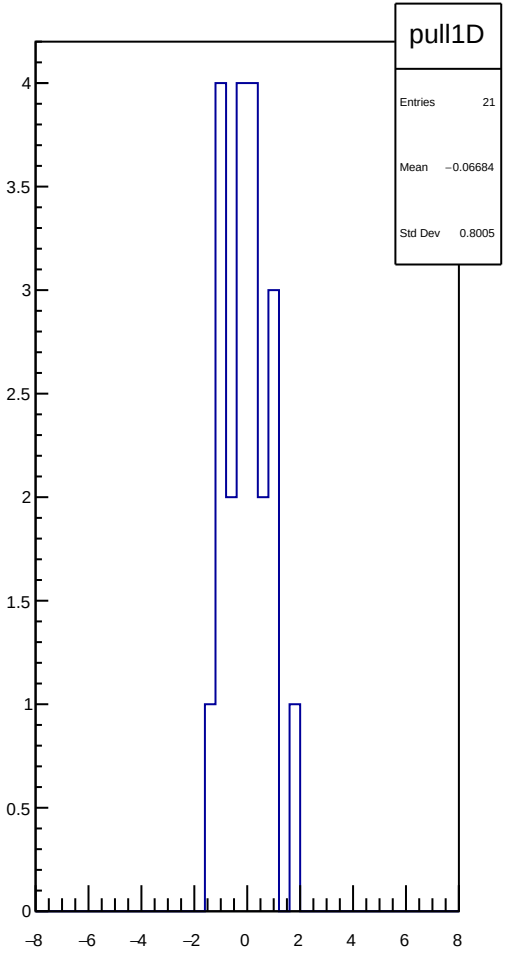

pull1D
Entries 21
Mean 0.003219
Std Dev 0.3967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

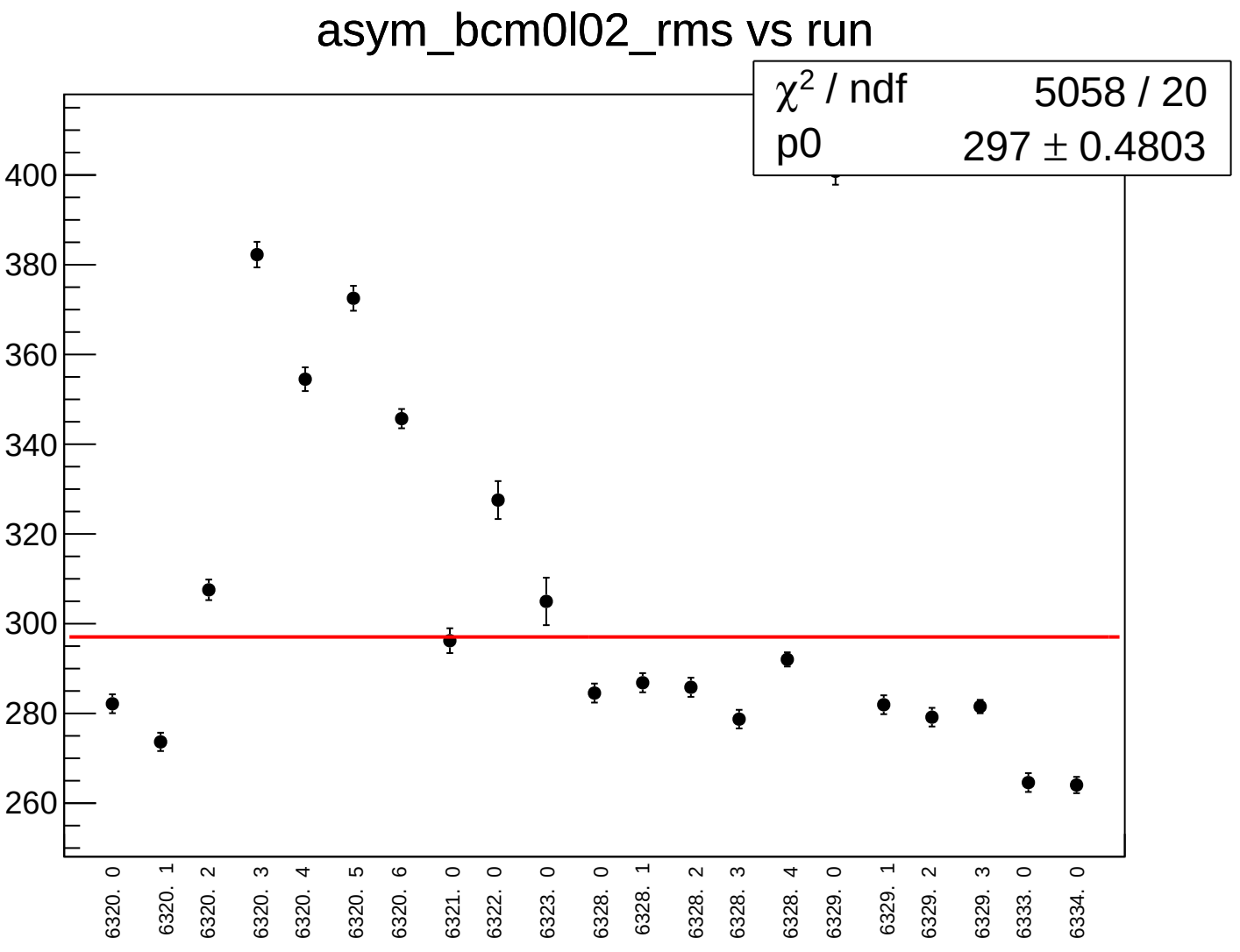

asym_cav4cQ_rms vs run
χ² / ndf 1104 / 20
p0 293.9 ± 0.4727
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

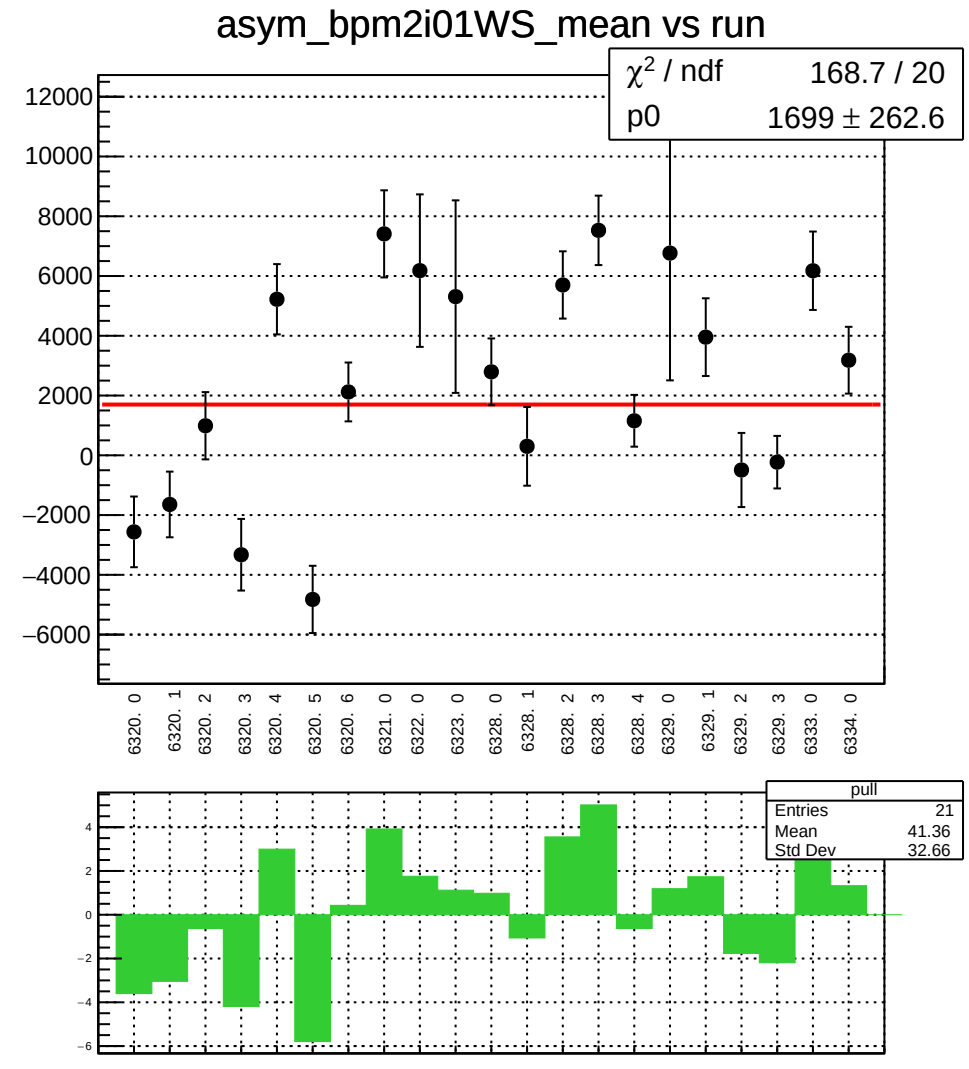

asym_cav4dQ_mean vs run
χ² / ndf 4.749 / 20
p0 985.8 ± 981.3
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 100.2
Std Dev 90.81
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.008079
Std Dev 0.4755
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

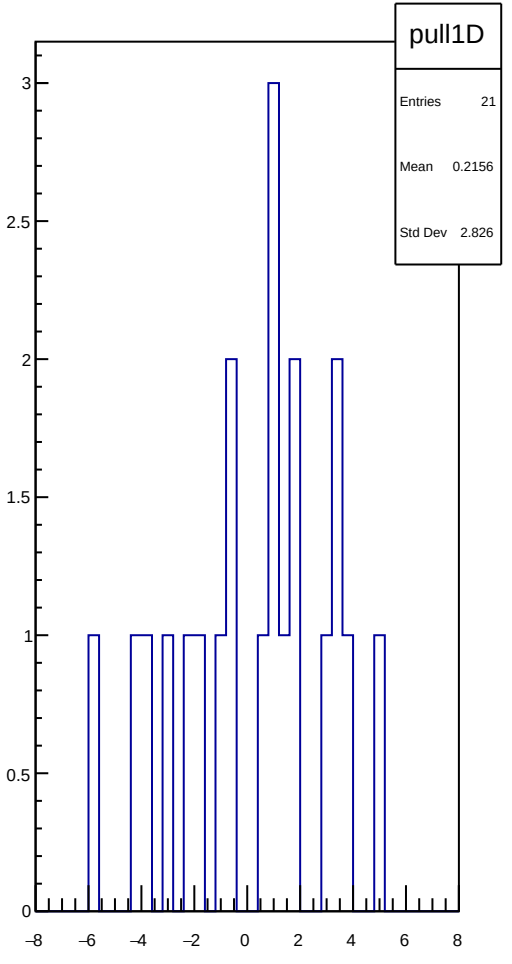

asym_cav4dQ_rms vs run
χ² / ndf 363.8 / 20
p0 431.7 ± 0.6939
470
460
450
440
430
420
410
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

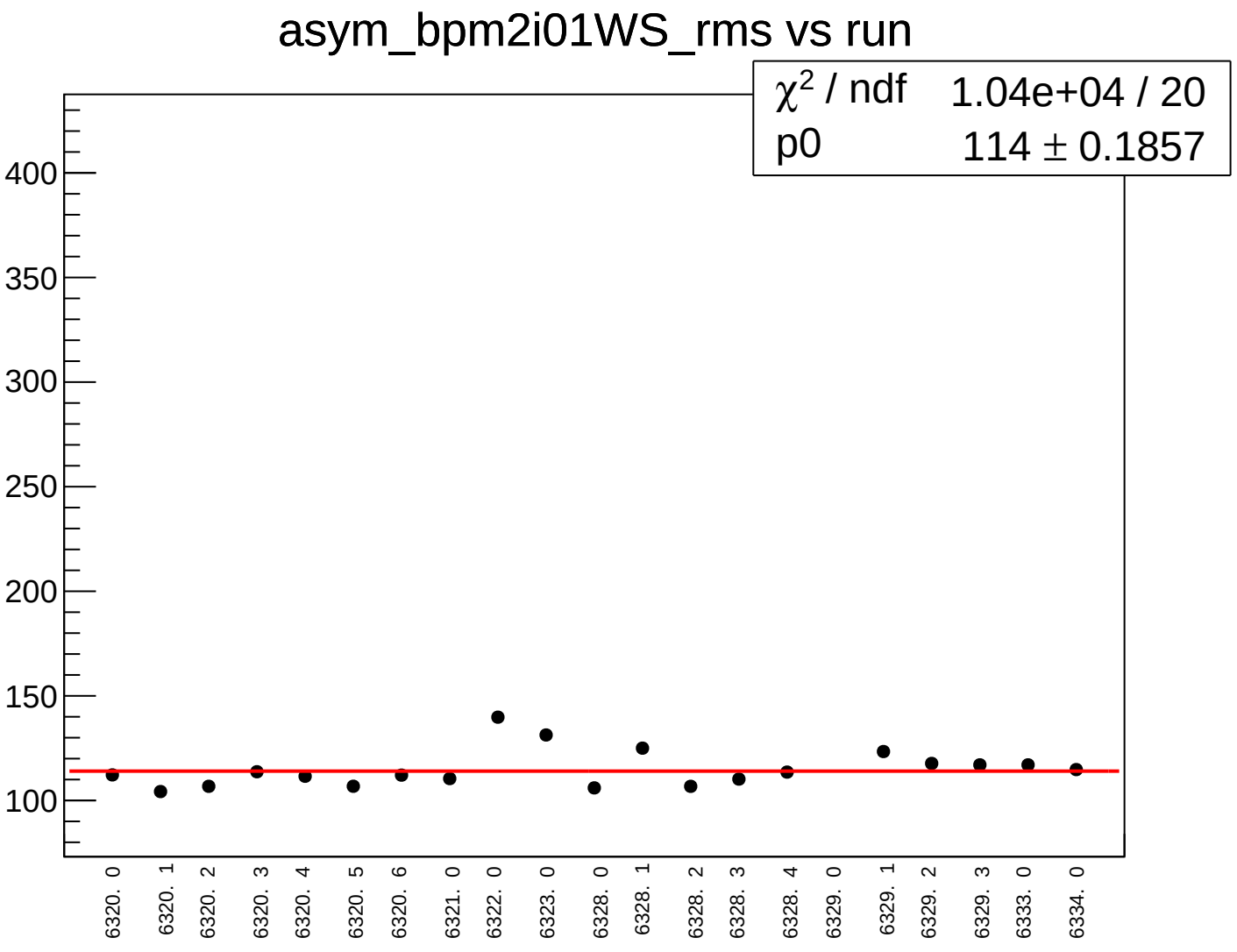

asym_bcm0l02_mean vs run
χ² / ndf 13.55 / 20
p0 1385 ± 679.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.684
Std Dev 15.3
1.5
1
0.5
0
−0.5
−1
−1.5

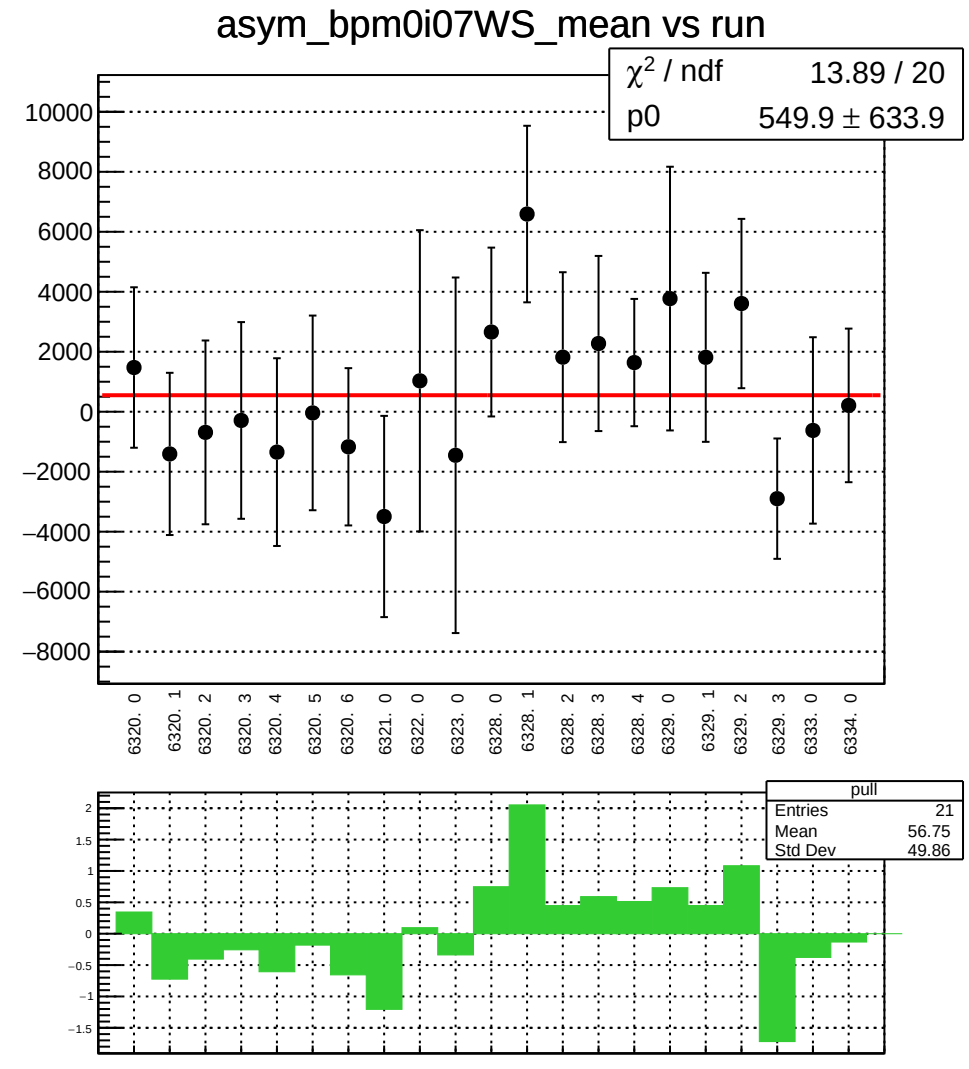

pull1D
Entries 21
Mean −0.06684
Std Dev 0.8005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

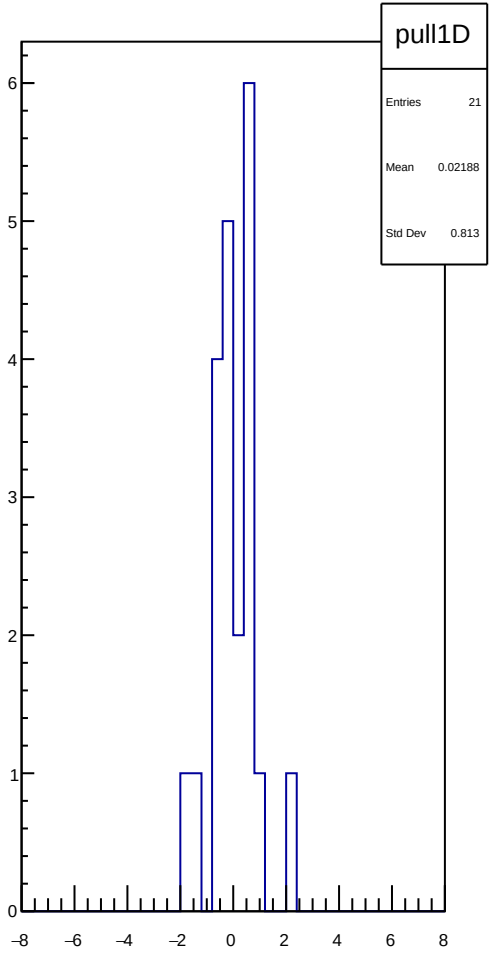

asym_bcm0l02_rms vs run
χ² / ndf 5058 / 20
p0 297 ± 0.4803
400
380
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

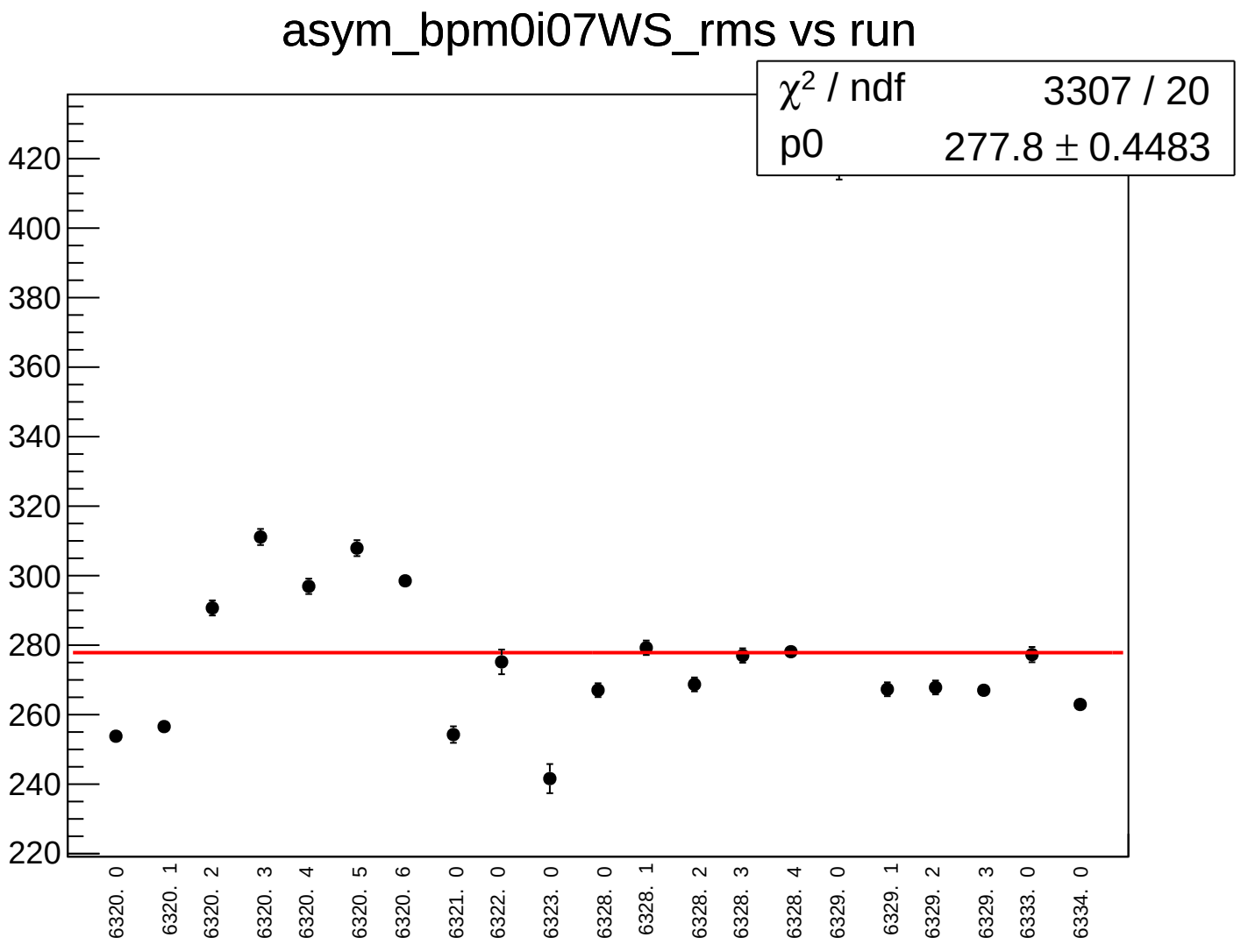

asym_bpm2i01WS_mean vs run
χ² / ndf 168.7 / 20
p0 1699 ± 262.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 41.36
Std Dev 32.66
4
2
0
−2
−4
−6

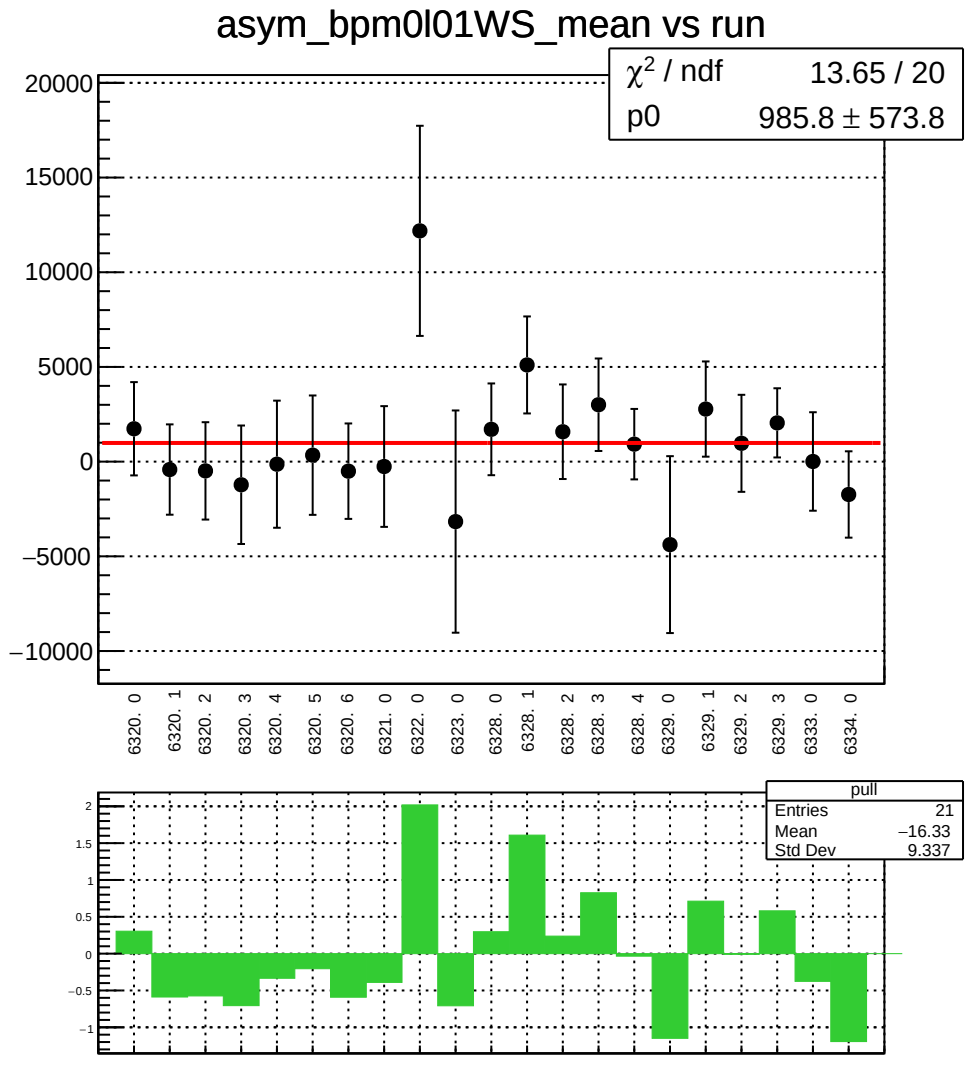

pull1D
Entries 21
Mean 0.2156
Std Dev 2.826
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

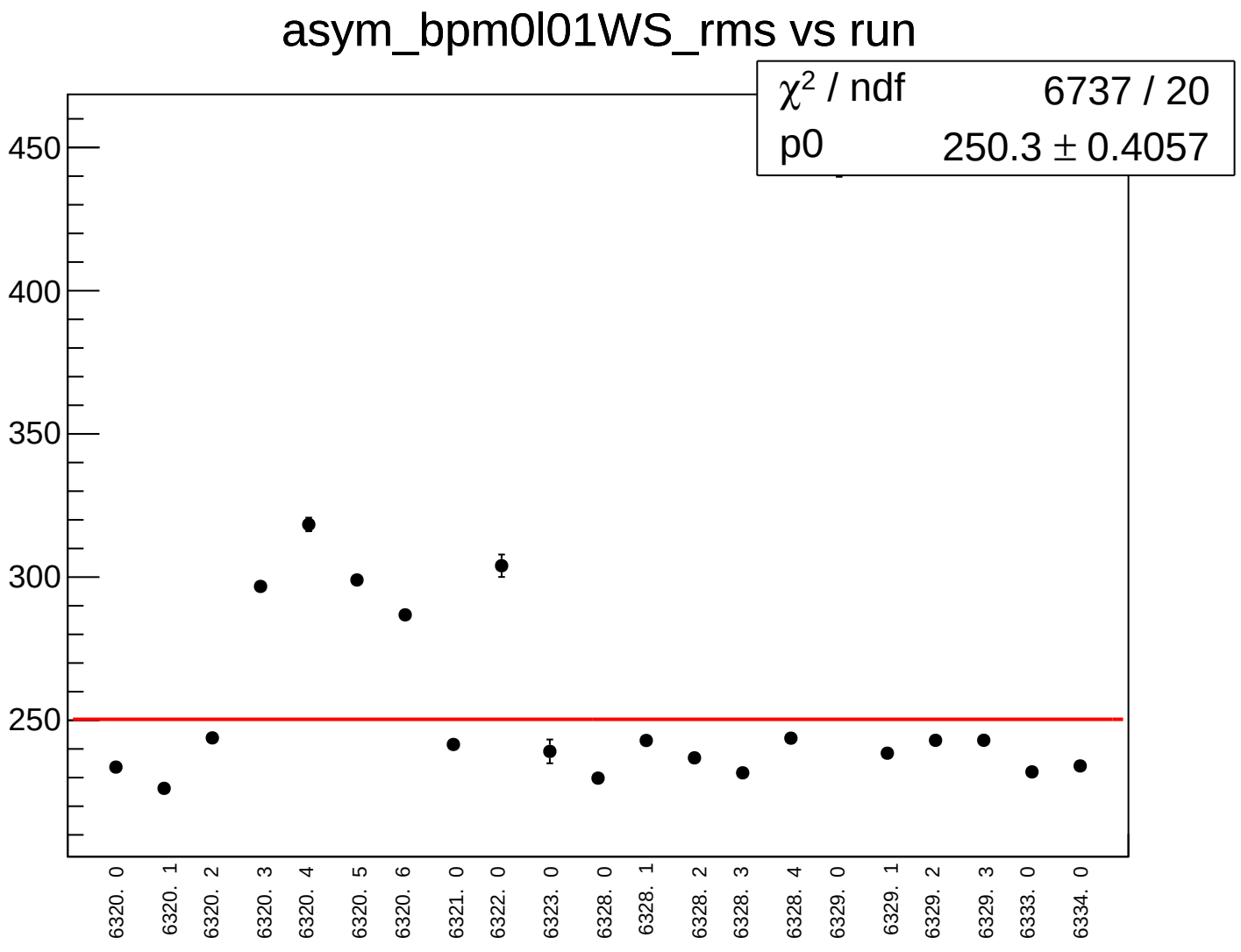

asym_bpm2i01WS_rms vs run
χ² / ndf 1.04e+04 / 20
p0 114 ± 0.1857
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

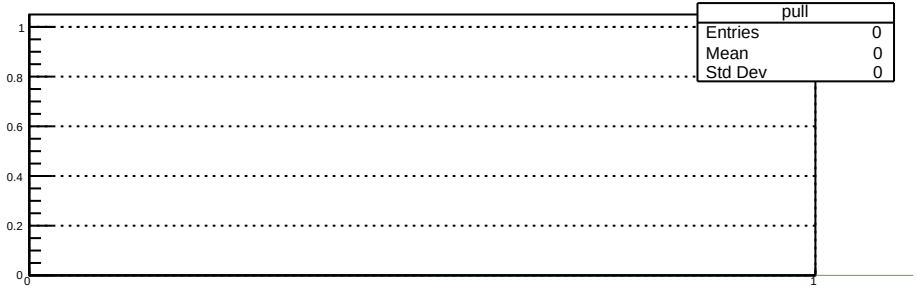

asym_bpm0i07WS_mean vs run
χ² / ndf 13.89 / 20
p0 549.9 ± 633.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 56.75
Std Dev 49.86
2
1.5
1
0.5
0
−0.5
−1
−1.5

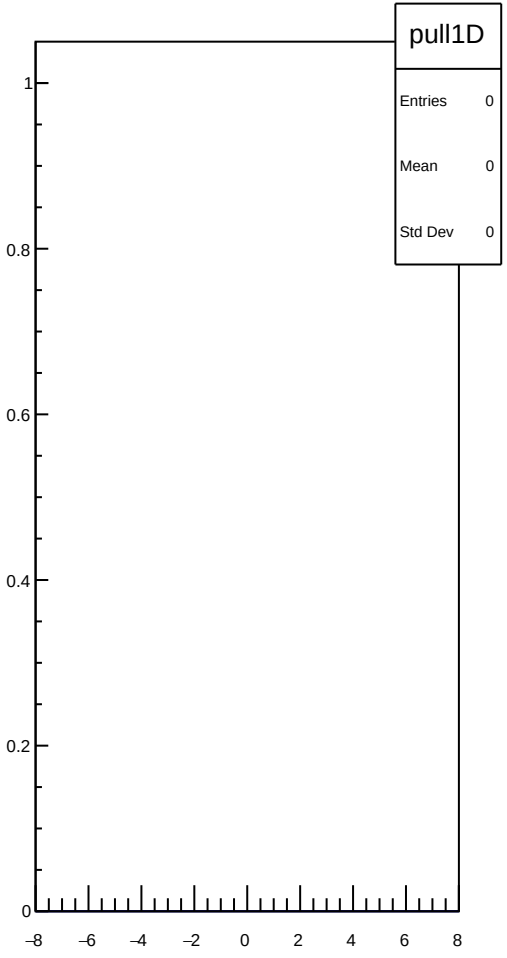

pull1D
Entries 21
Mean 0.02188
Std Dev 0.813
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

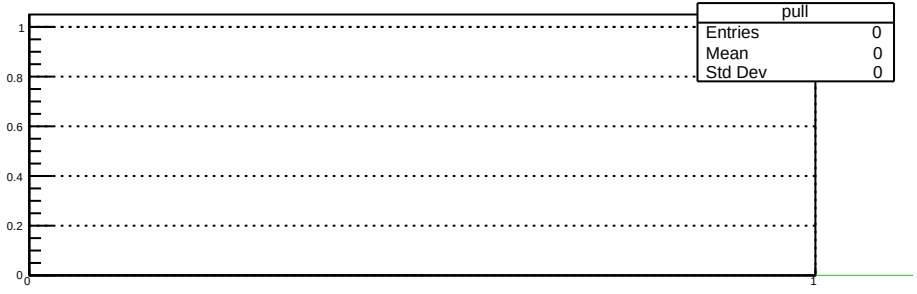

asym_bpm0i07WS_rms vs run
χ² / ndf 3307 / 20
p0 277.8 ± 0.4483
420
400
380
360
340
320
300
280
260
240
220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

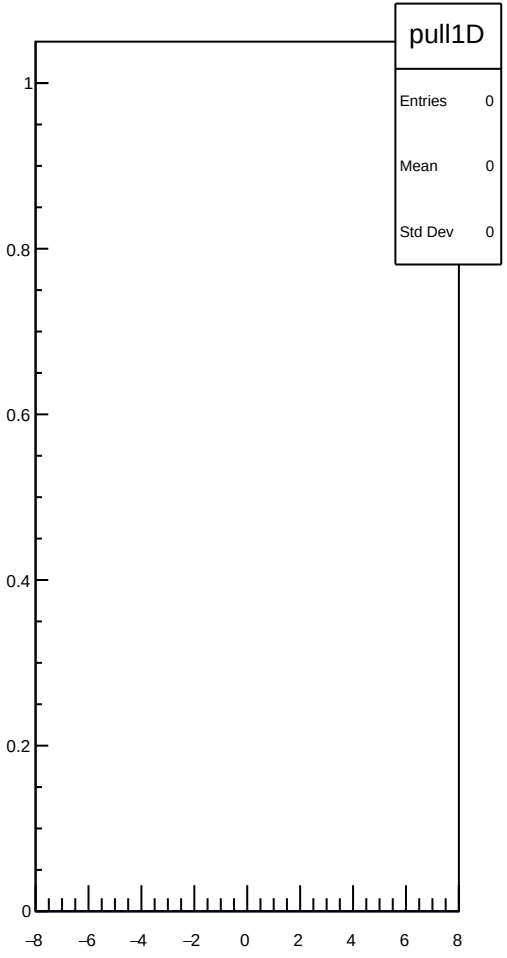

asym_bpm0l01WS_mean vs run
χ² / ndf 13.65 / 20
p0 985.8 ± 573.8
20000
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.33
Std Dev 9.337
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.01286
Std Dev 0.806
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

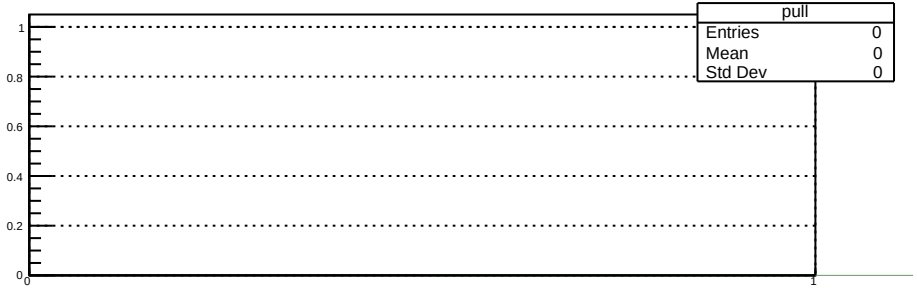

asym_bpm0l01WS_rms vs run
χ² / ndf 6737 / 20
p0 250.3 ± 0.4057
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

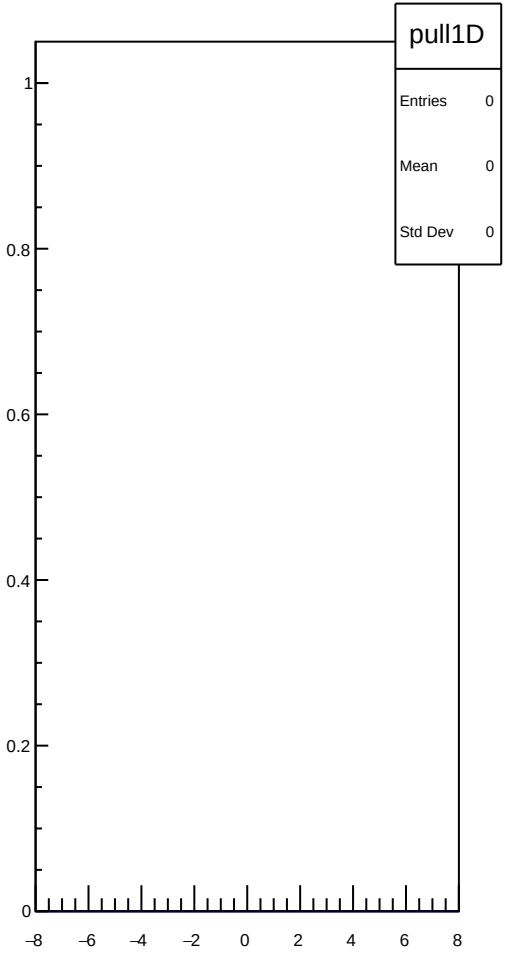

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

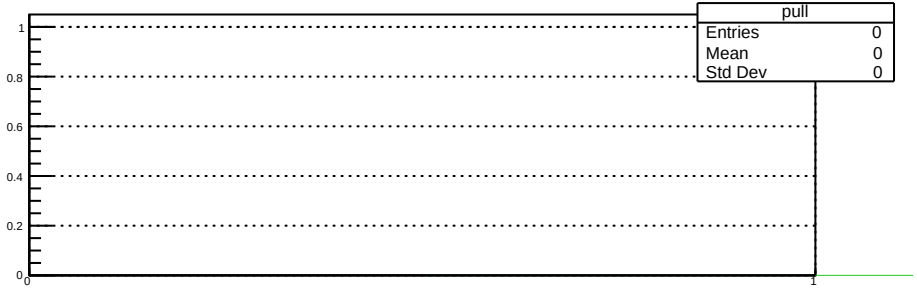

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

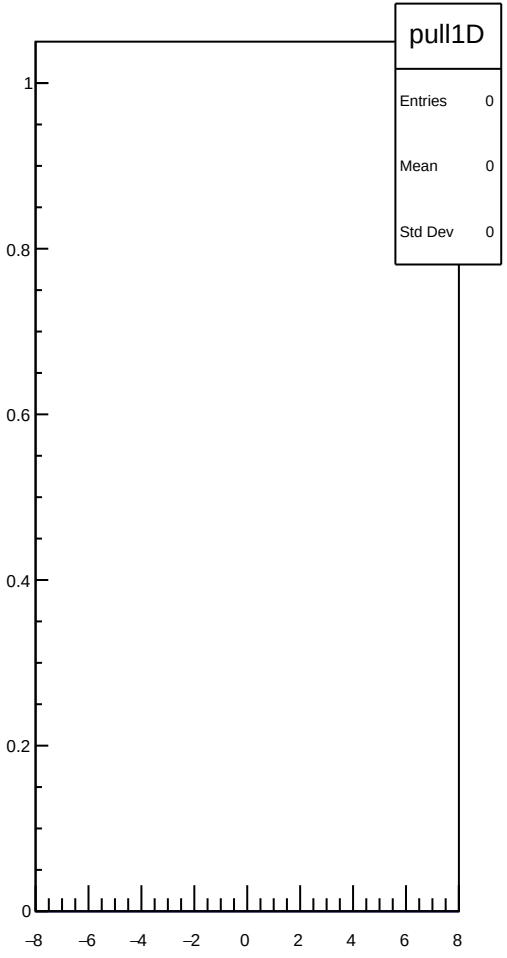

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

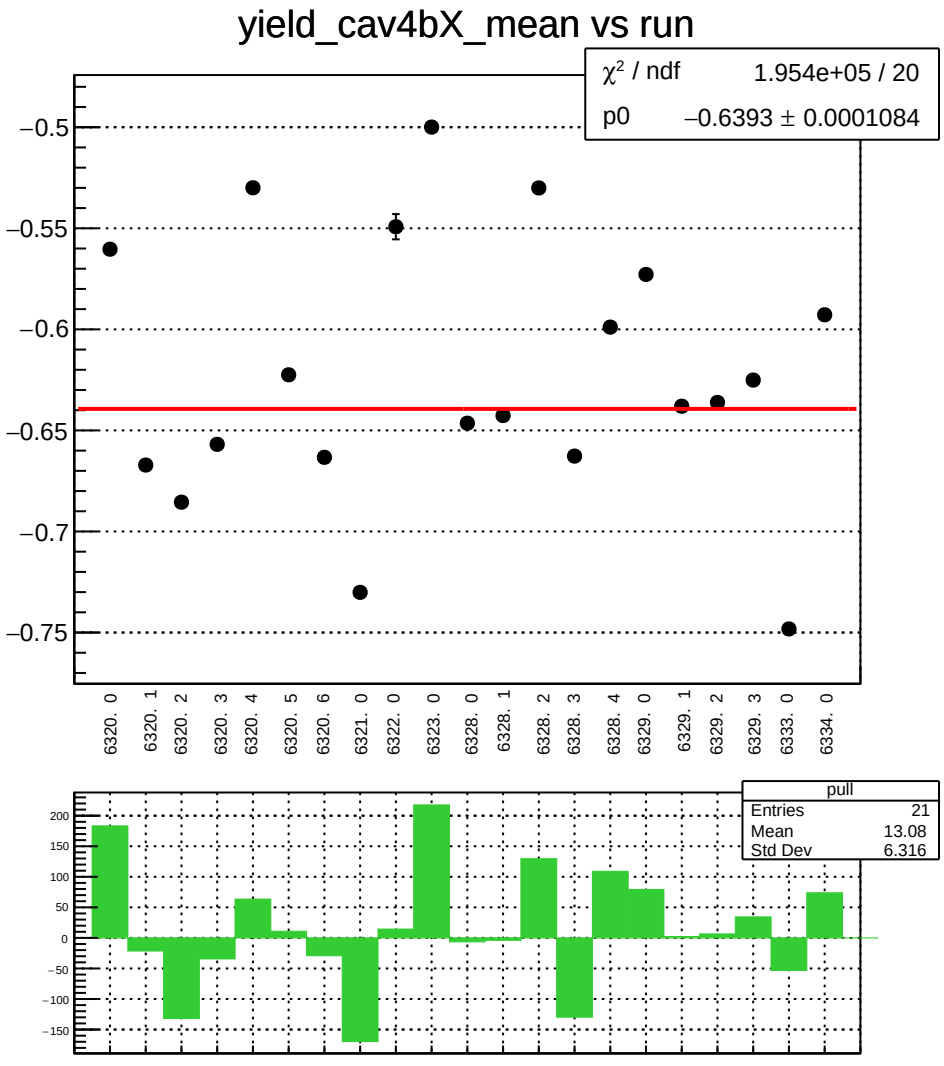

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

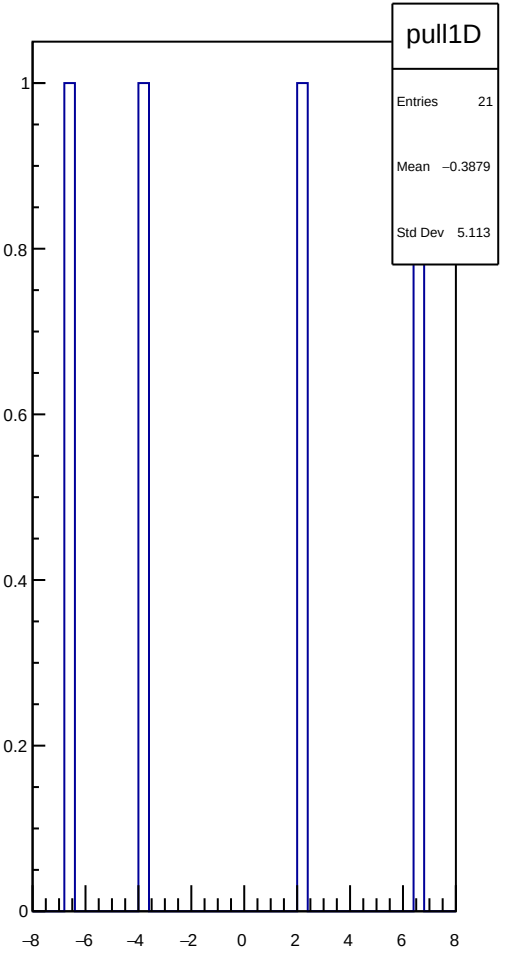

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

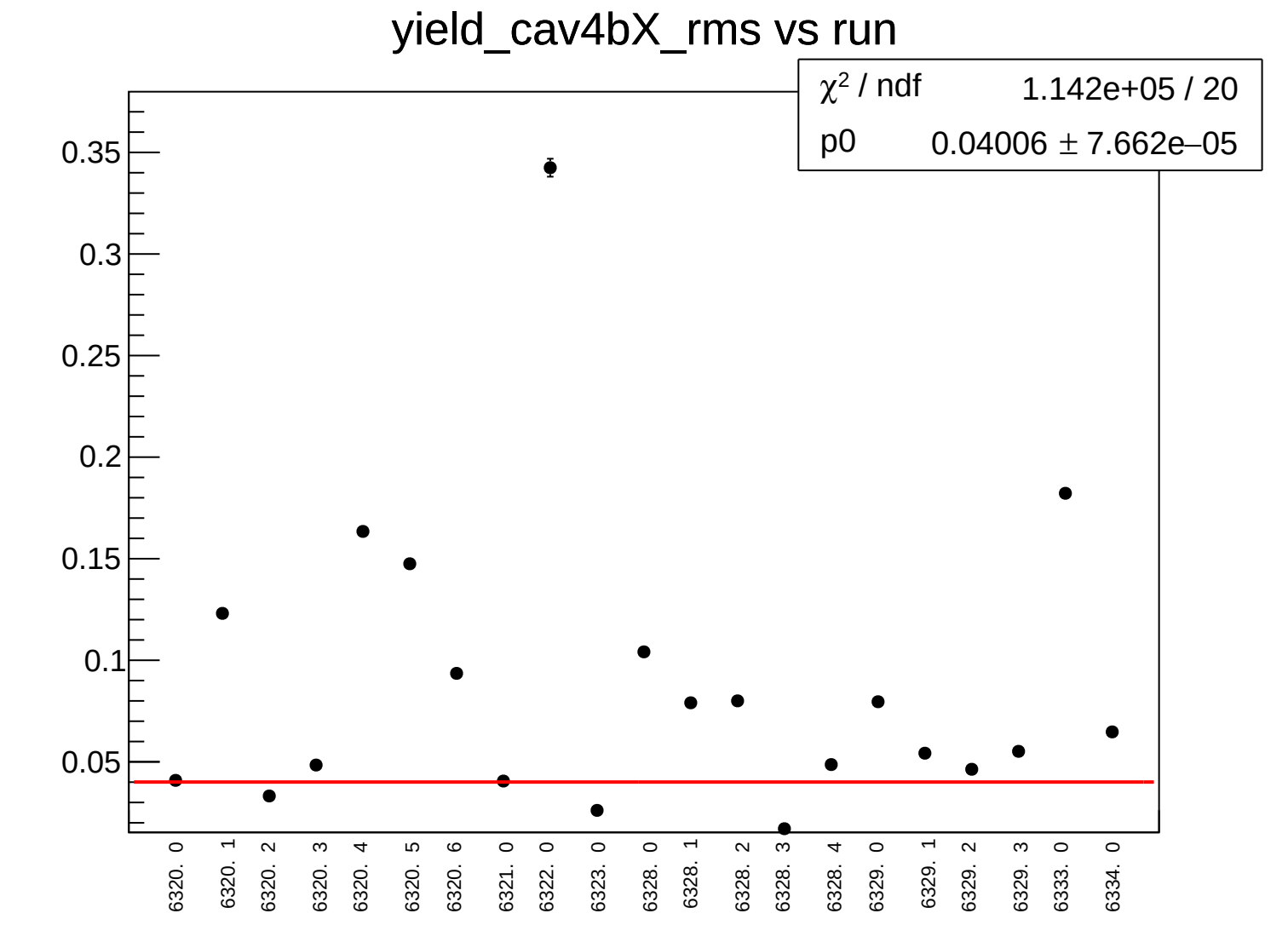

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

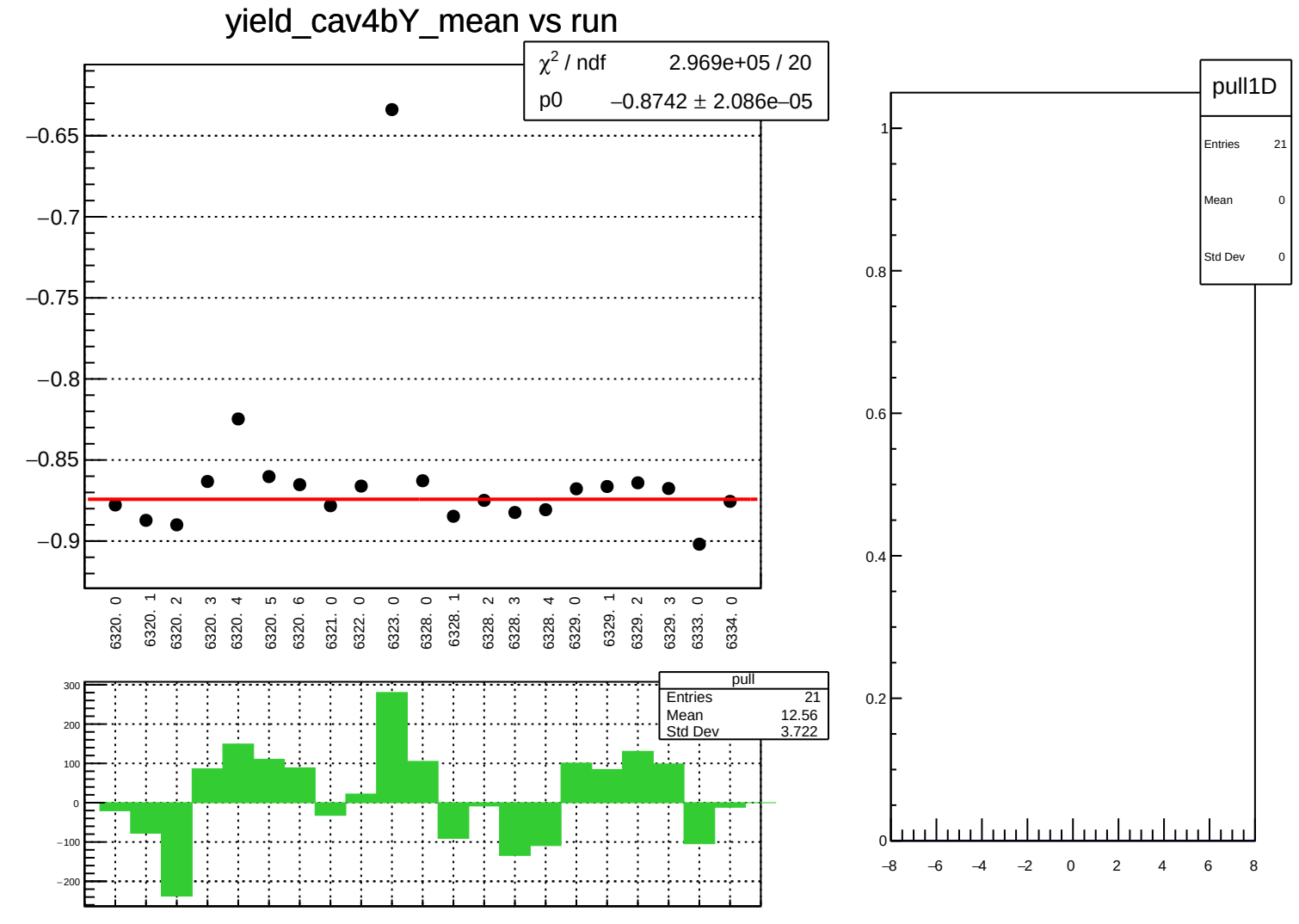

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

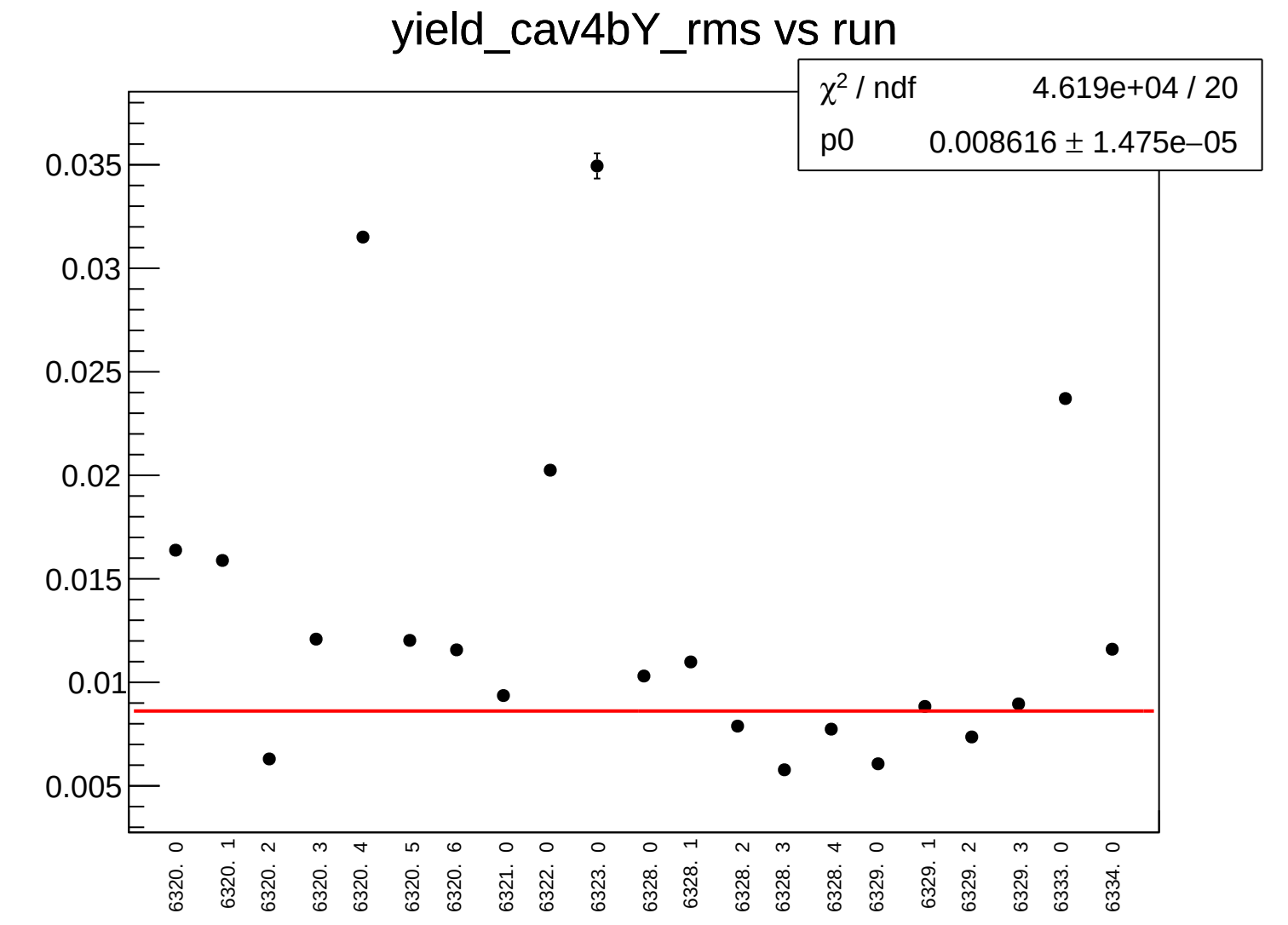

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

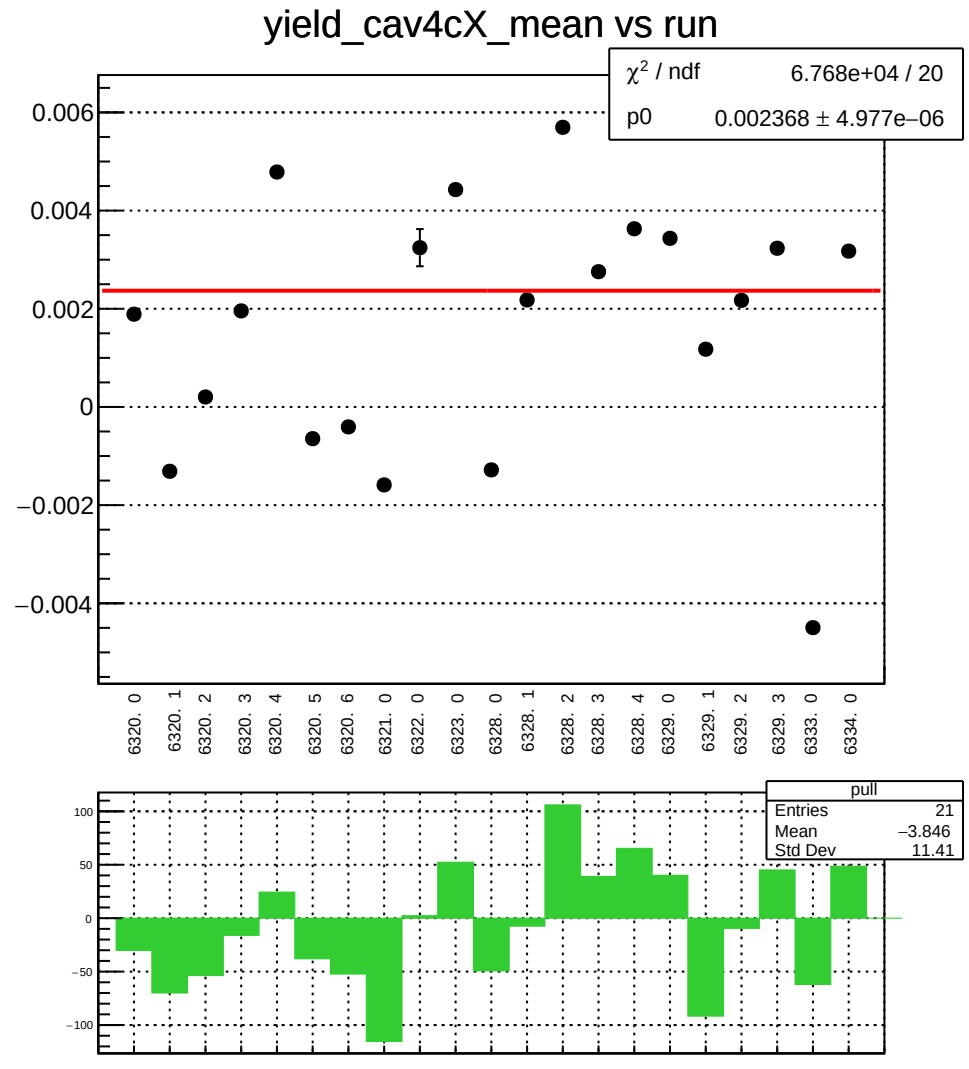

yield_cav4bX_mean vs run
χ² / ndf 1.954e+05 / 20
p0 −0.6393 ± 0.0001084
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.08
Std Dev 6.316
200
150
100
50
0
−50
−100
−150

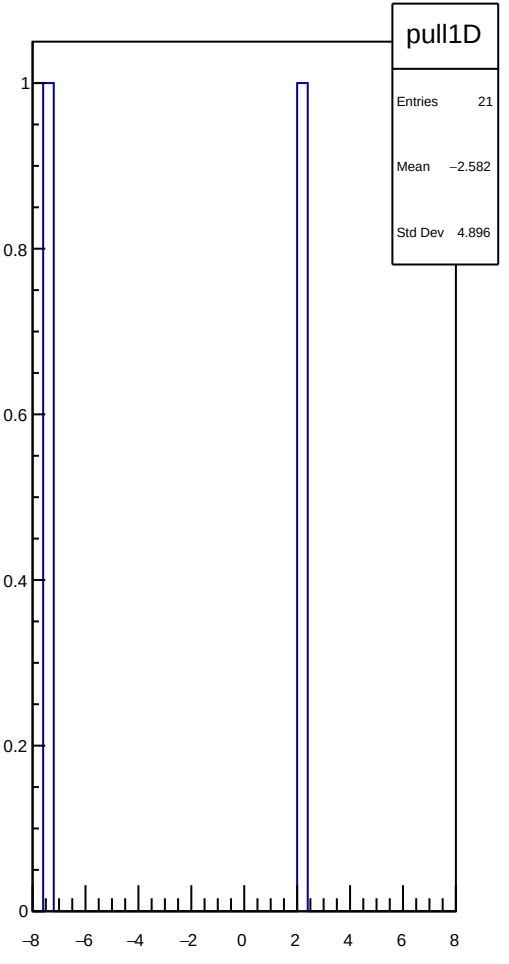

pull1D
Entries 21
Mean −0.3879
Std Dev 5.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

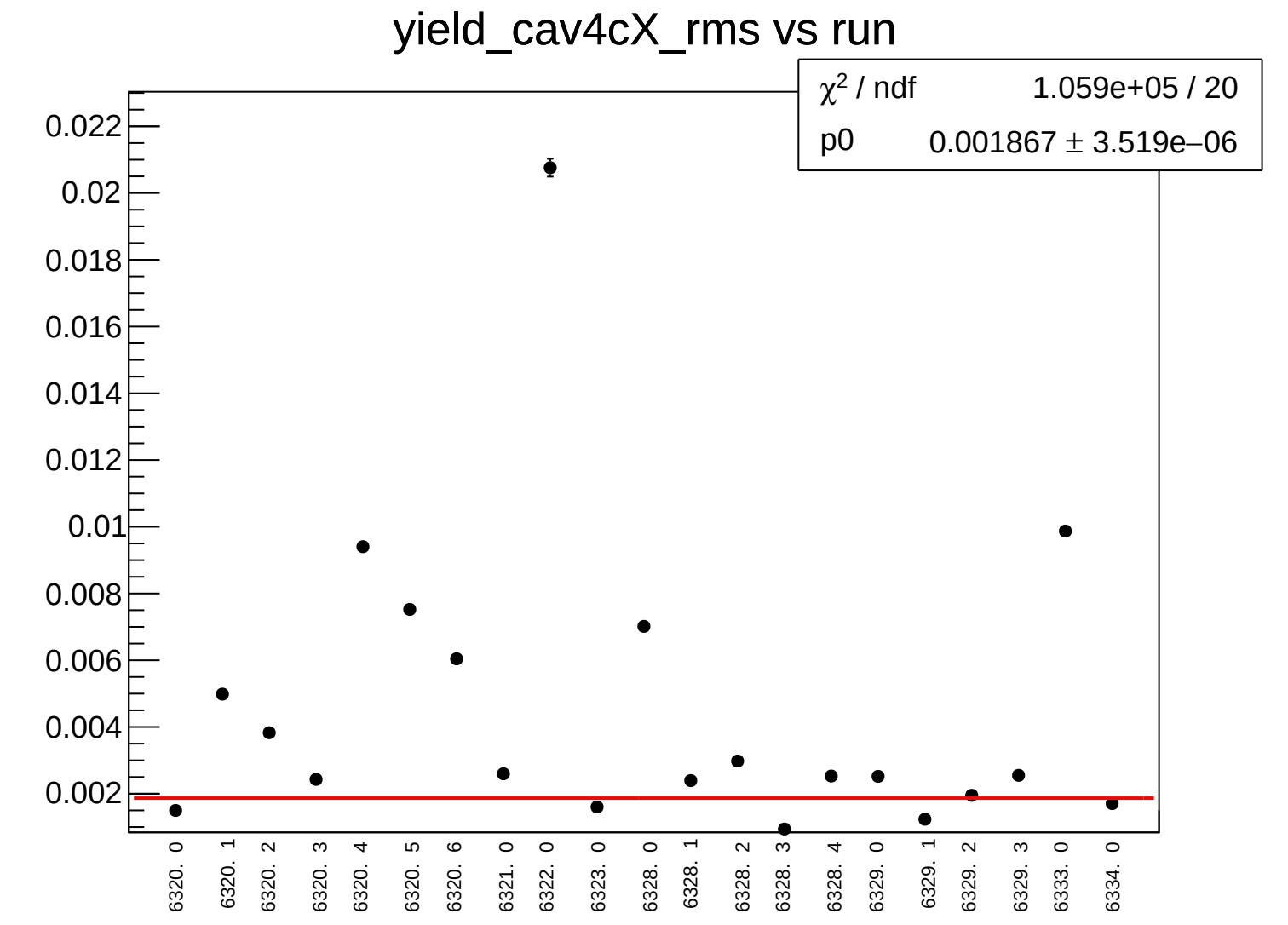

yield_cav4bX_rms vs run
χ² / ndf 1.142e+05 / 20
p0 0.04006 ± 7.662e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

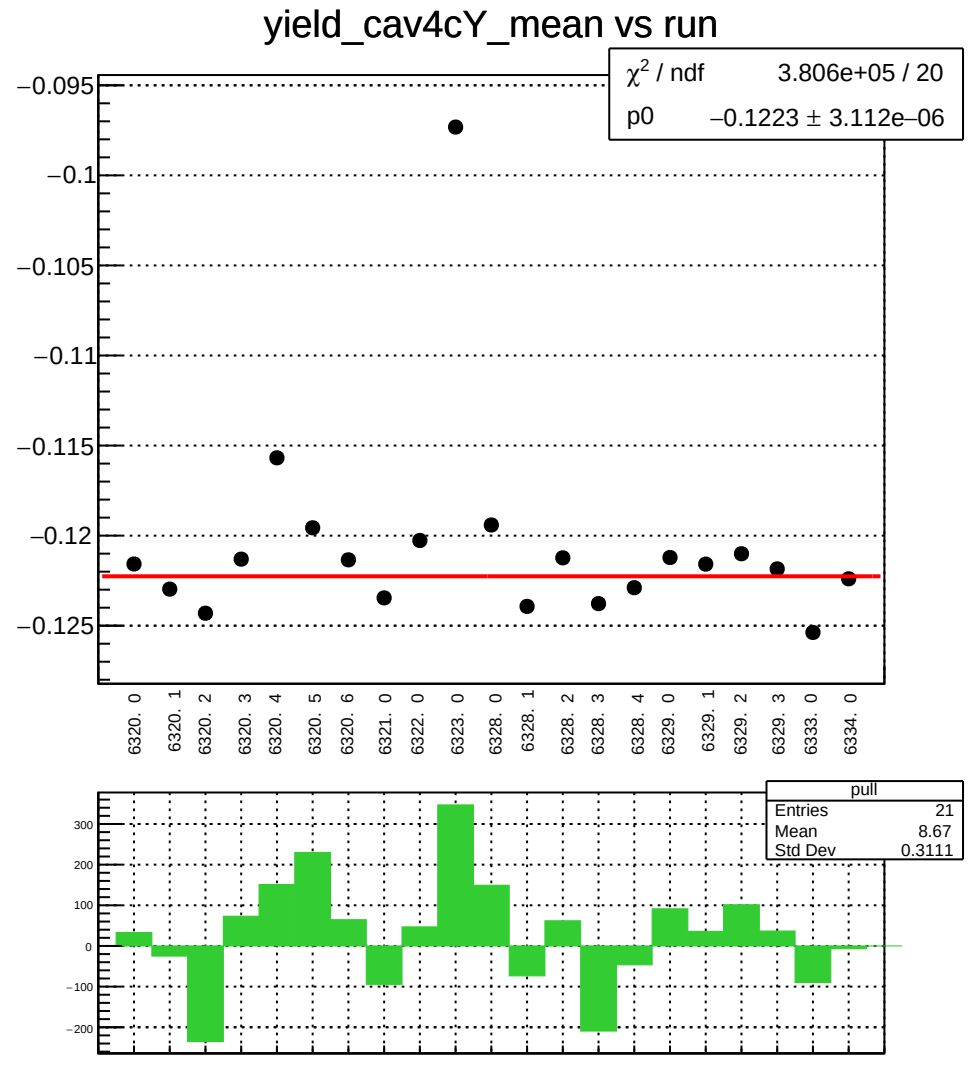

yield_cav4bY_mean vs run
χ² / ndf 2.969e+05 / 20
p0 −0.8742 ± 2.086e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 12.56
Std Dev 3.722
300
200
100
0
−100
−200
pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

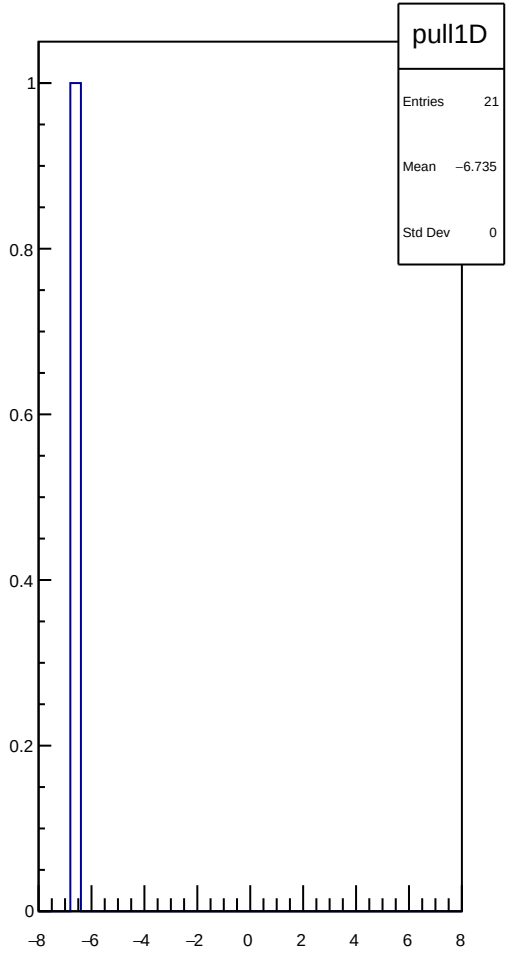

yield_cav4bY_rms vs run
χ² / ndf 4.619e+04 / 20
p0 0.008616 ± 1.475e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

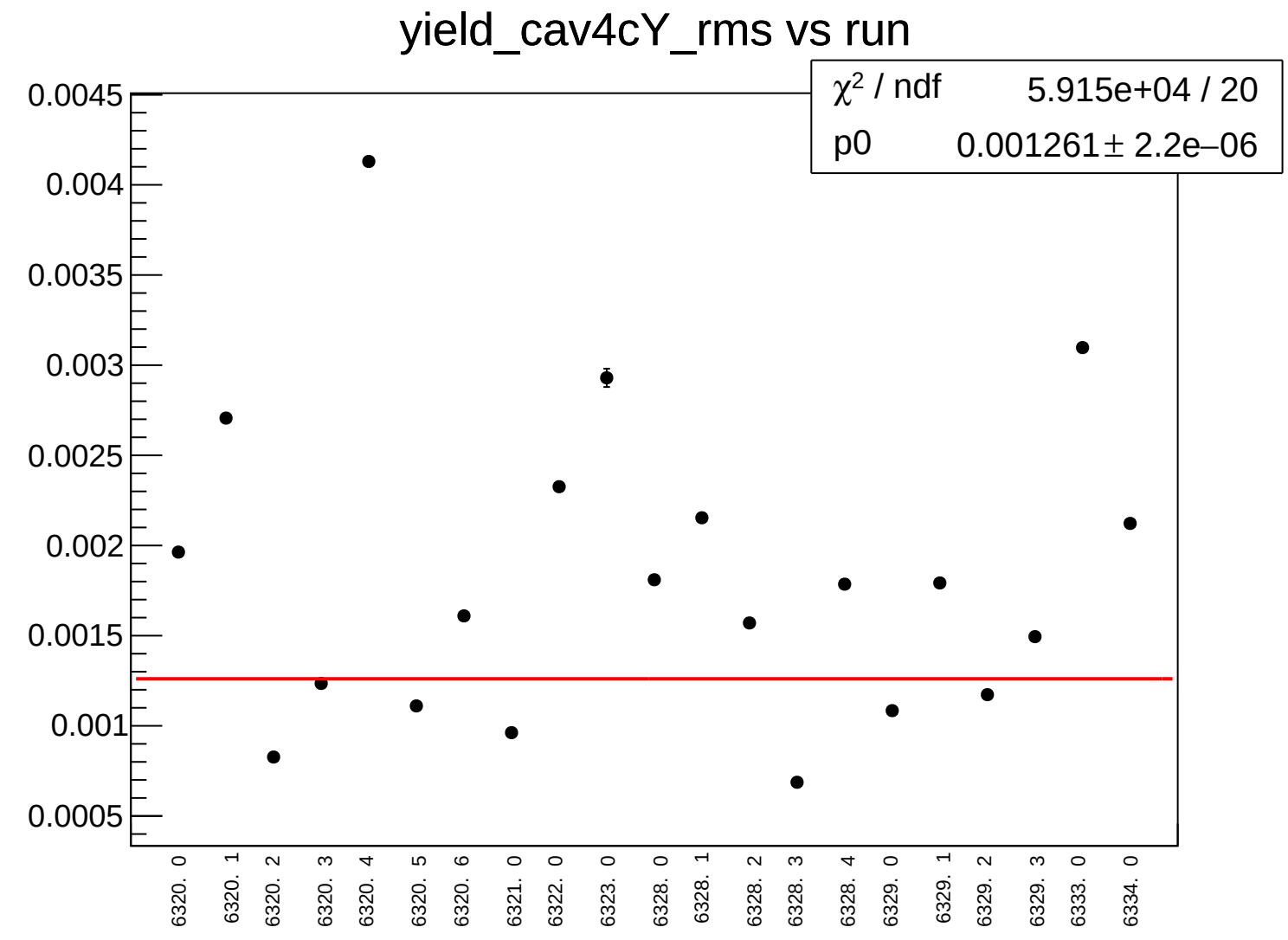

yield_cav4cX_mean vs run
χ² / ndf 6.768e+04 / 20
p0 0.002368 ± 4.977e−06
0.006
0.004
0.002
0
−0.002
−0.004
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.846
Std Dev 11.41
100
50
0
−50
−100

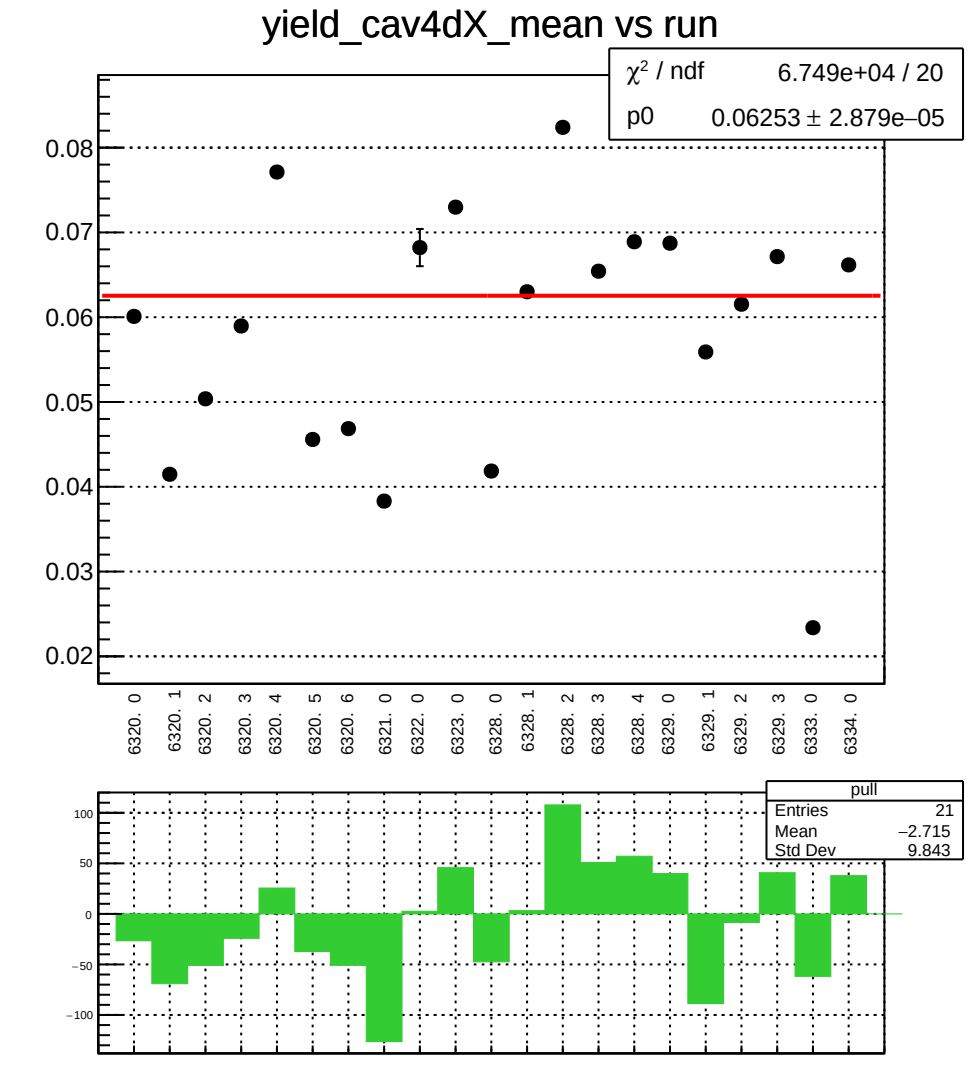

pull1D
Entries 21
Mean −2.582
Std Dev 4.896
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

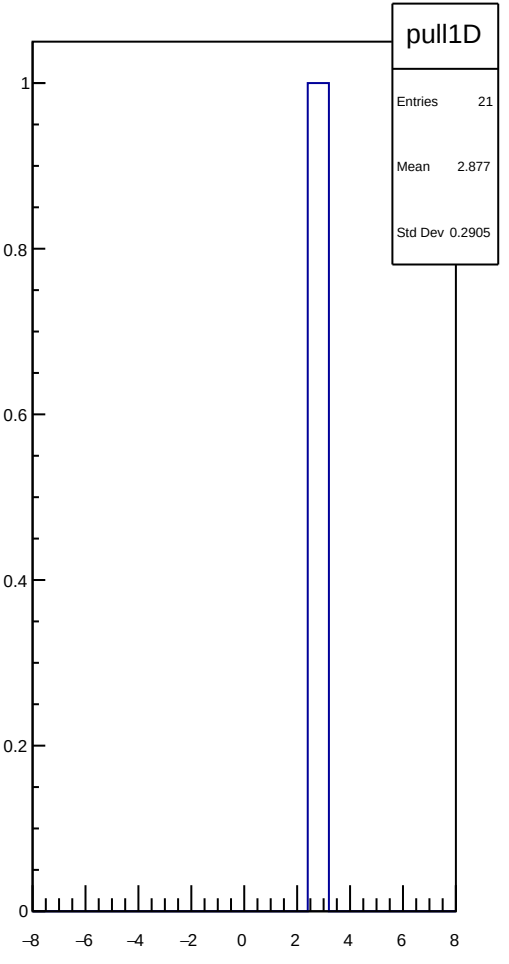

yield_cav4cX_rms vs run
χ² / ndf 1.059e+05 / 20
p0 0.001867 ± 3.519e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

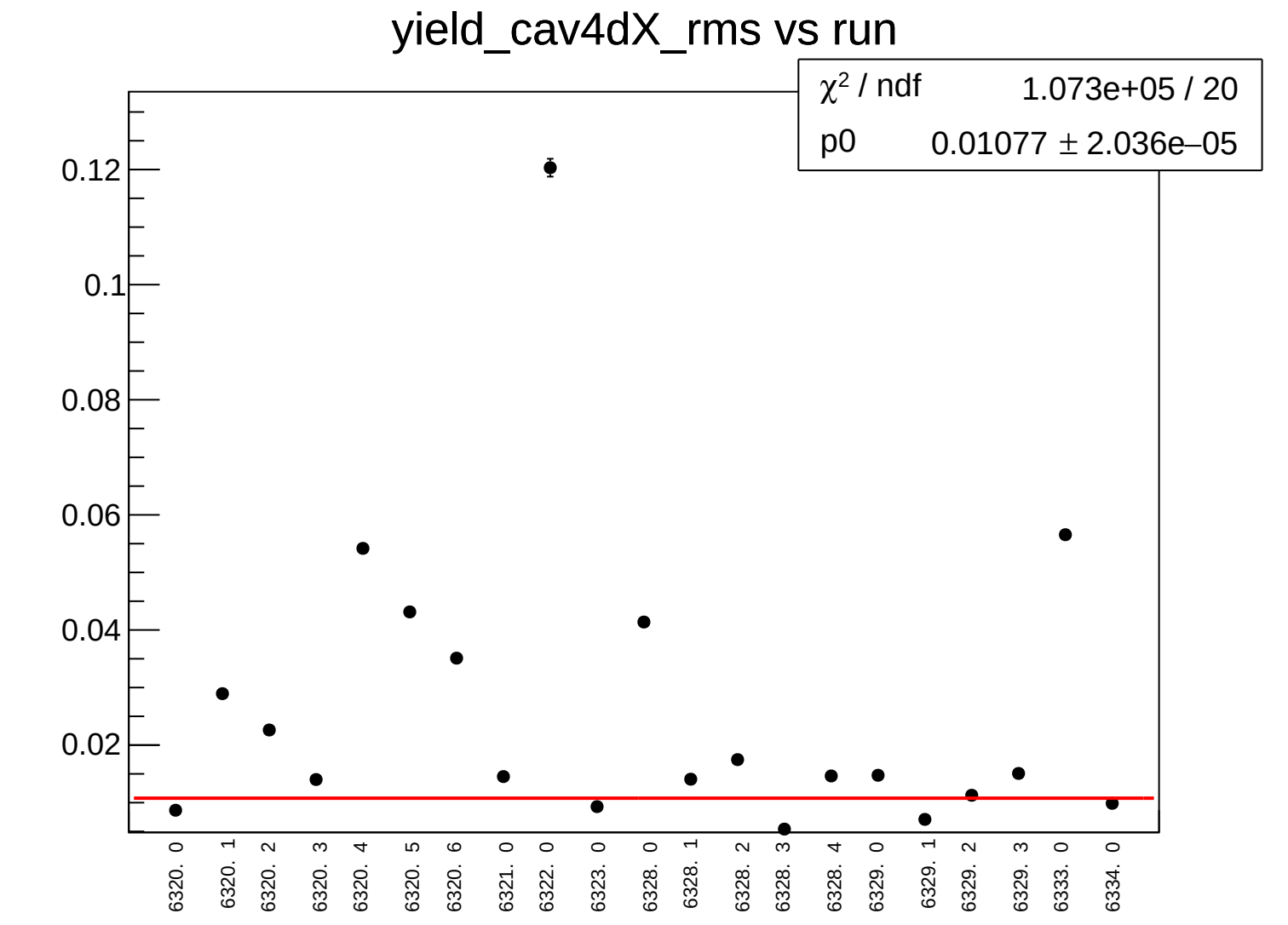

yield_cav4cY_mean vs run
χ² / ndf 3.806e+05 / 20
p0 −0.1223 ± 3.112e−06
−0.095
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.67
Std Dev 0.3111
300
200
100
0
−100
−200

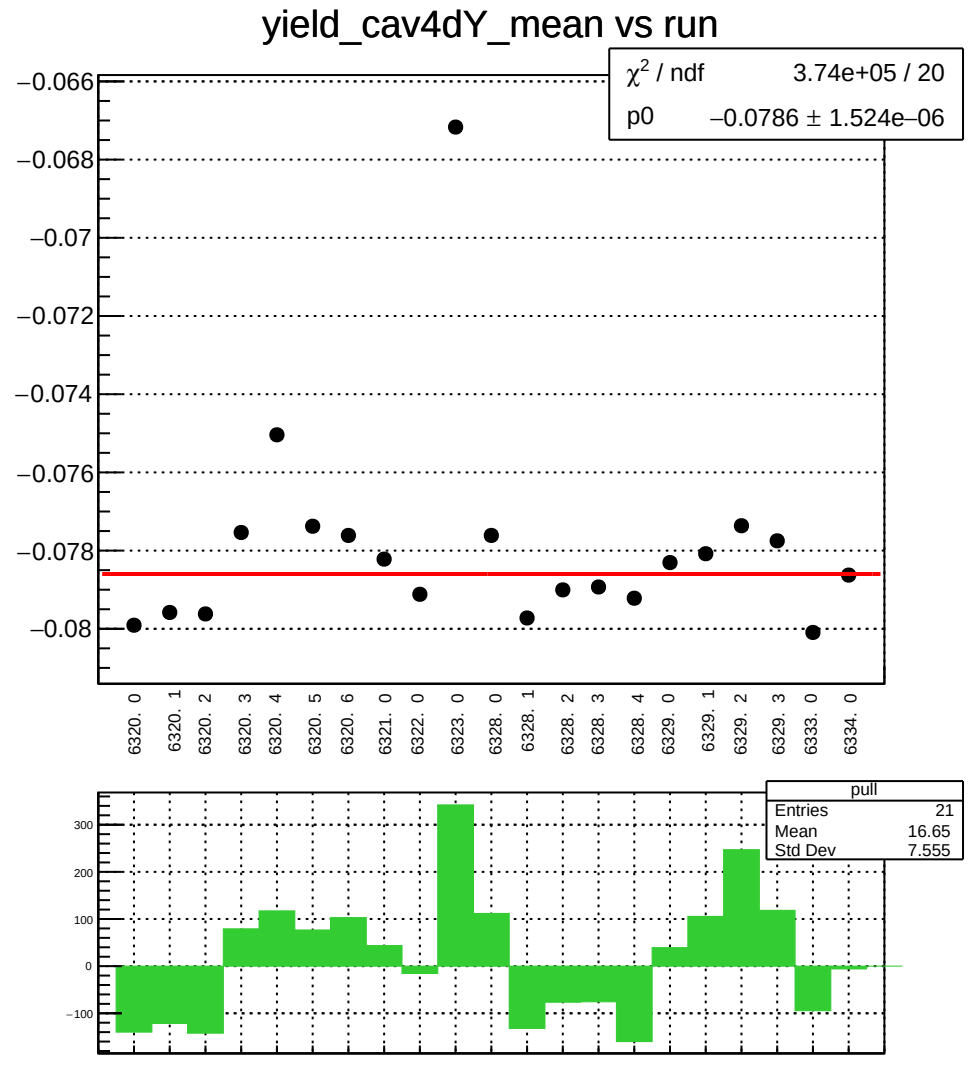

pull1D
Entries 21
Mean −6.735
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

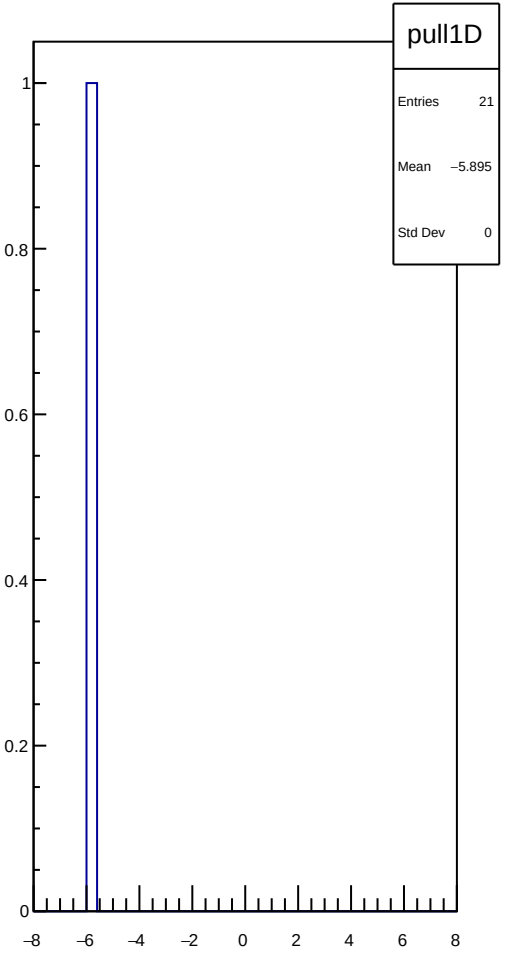

yield_cav4cY_rms vs run
χ² / ndf 5.915e+04 / 20
p0 0.001261 ± 2.2e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

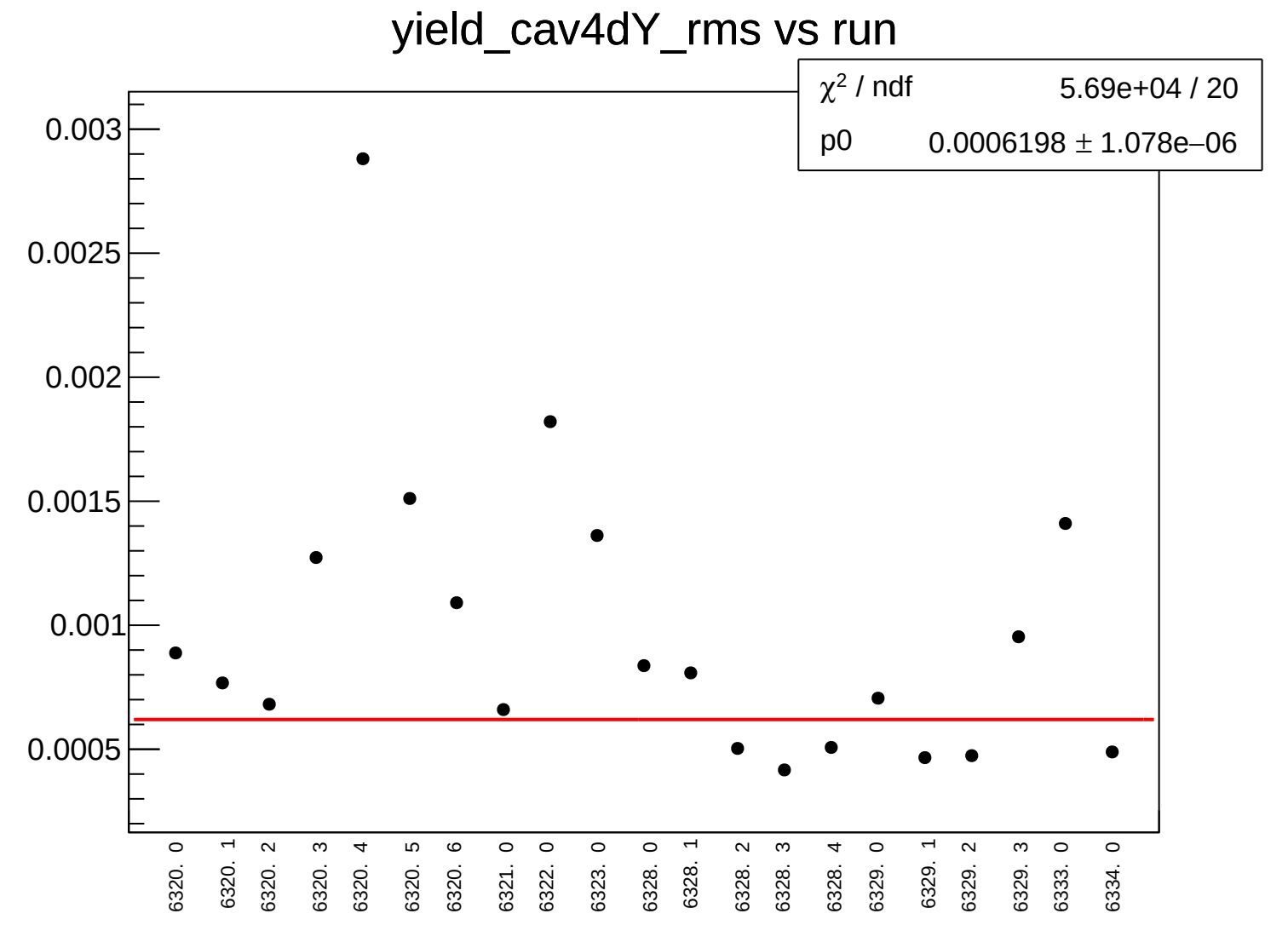

yield_cav4dX_mean vs run
χ² / ndf 6.749e+04 / 20
p0 0.06253 ± 2.879e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.715
Std Dev 9.843
100
50
0
−50
−100

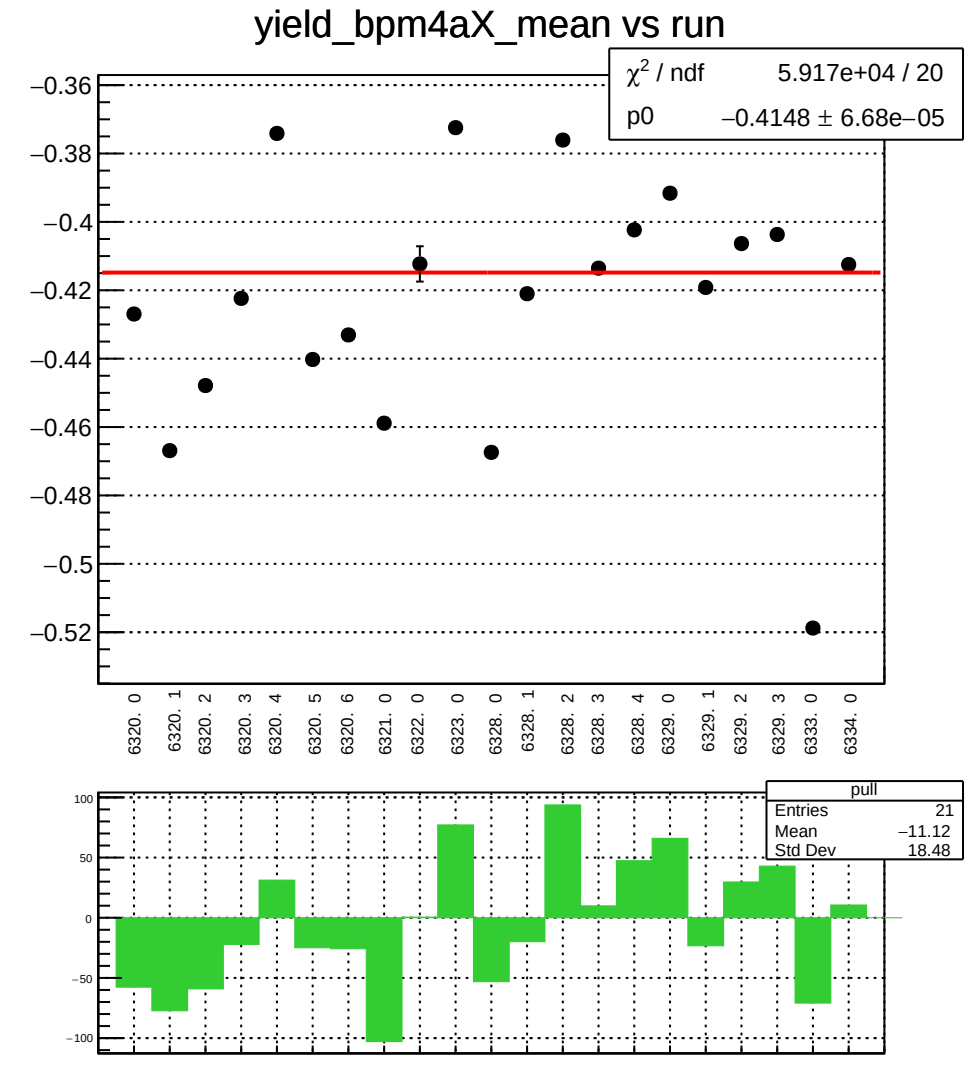

pull1D
Entries 21
Mean 2.877
Std Dev 0.2905
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

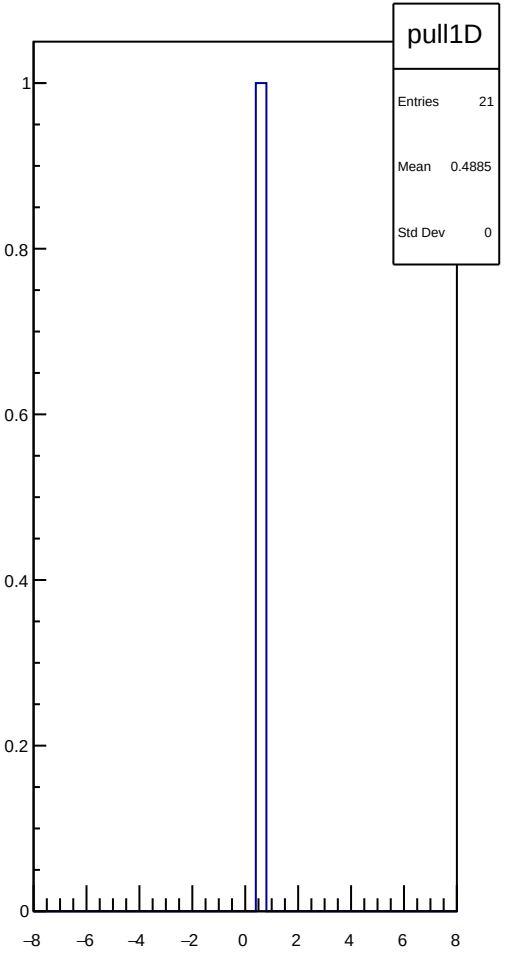

yield_cav4dX_rms vs run
χ² / ndf 1.073e+05 / 20
p0 0.01077 ± 2.036e–05
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

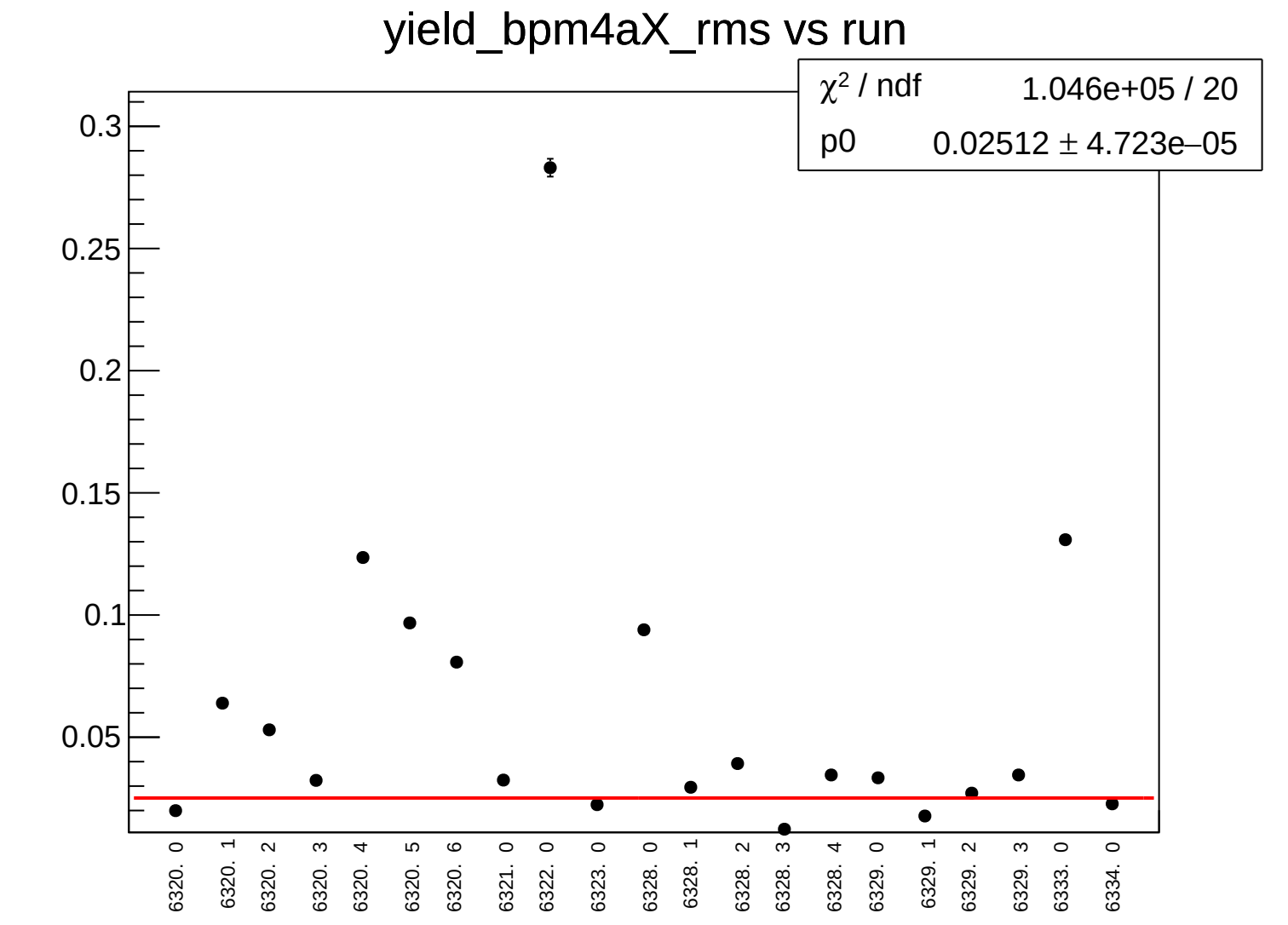

yield_cav4dY_mean vs run
χ² / ndf 3.74e+05 / 20
p0 −0.0786 ± 1.524e−06
−0.066
−0.068
−0.07
−0.072
−0.074
−0.076
−0.078
−0.08
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.65
Std Dev 7.555
300
200
100
0
−100

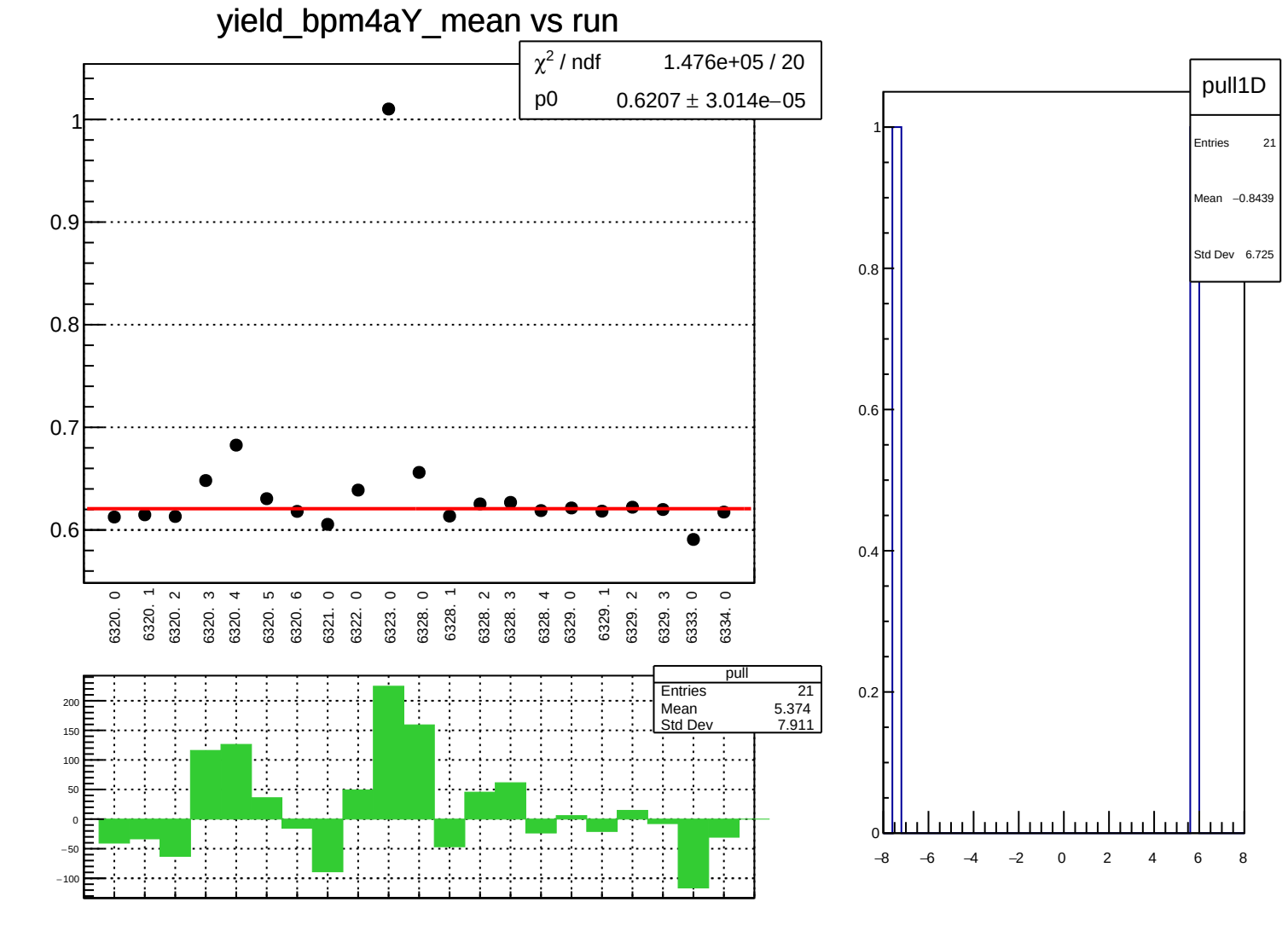

pull1D
Entries 21
Mean −5.895
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

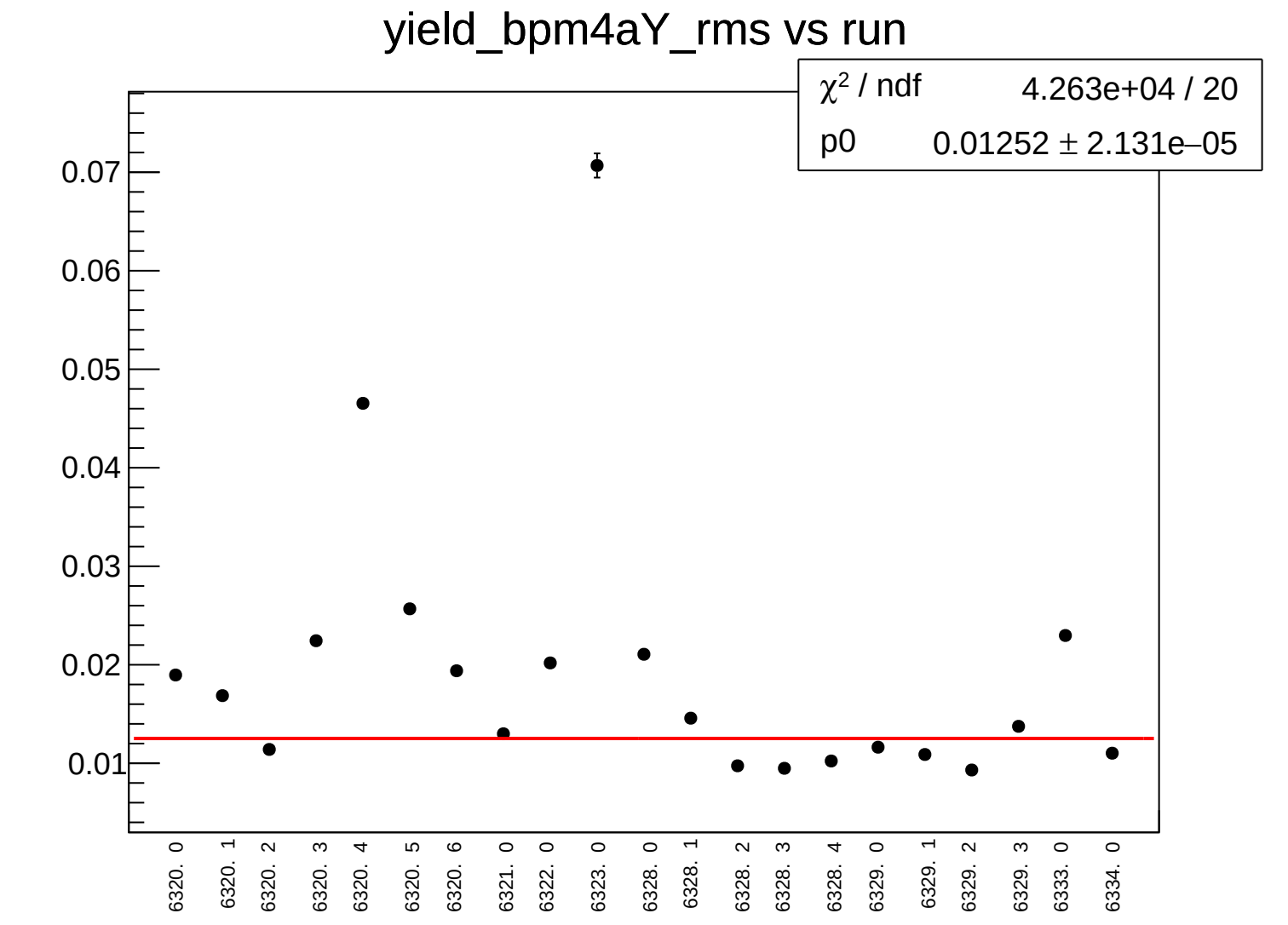

yield_cav4dY_rms vs run
χ² / ndf 5.69e+04 / 20
p0 0.0006198 ± 1.078e−06
0.003
0.0025
0.002
0.0015
0.001
0.0005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

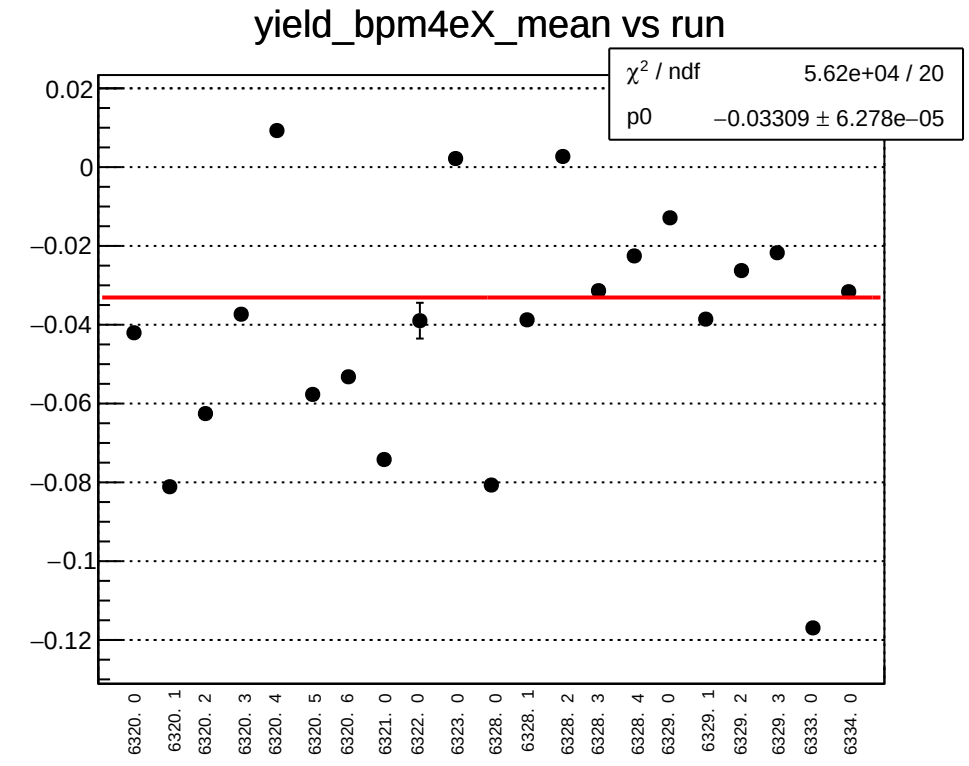

yield_bpm4aX_mean vs run
χ² / ndf 5.917e+04 / 20
p0 −0.4148 ± 6.68e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −11.12
Std Dev 18.48
100
50
0
−50
−100

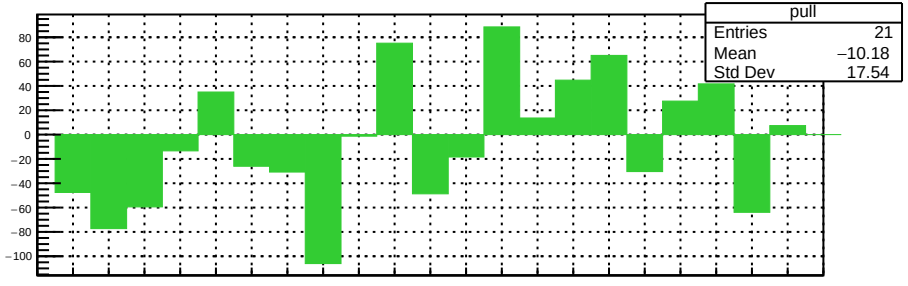

pull1D
Entries 21
Mean 0.4885
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

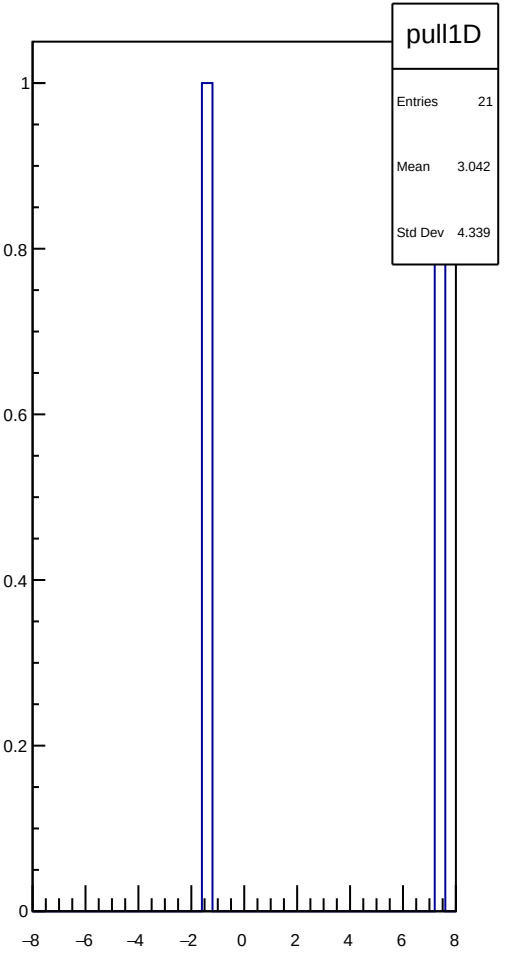

yield_bpm4aX_rms vs run
χ² / ndf 1.046e+05 / 20
p0 0.02512 ± 4.723e–05
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

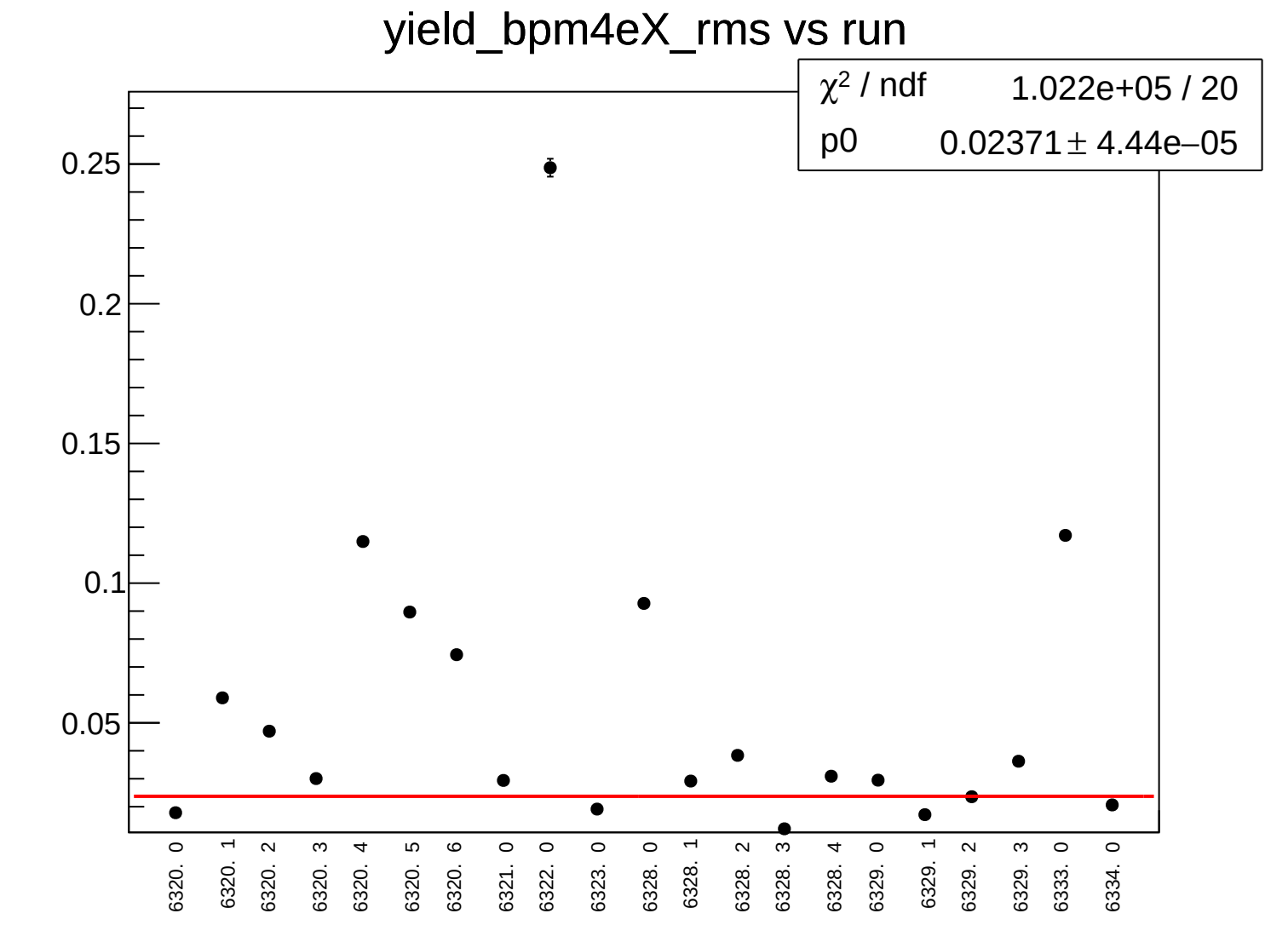

yield_bpm4aY_mean vs run
χ² / ndf 1.476e+05 / 20
p0 0.6207 ± 3.014e−05
1
0.9
0.8
0.7
0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.374
Std Dev 7.911
200
150
100
50
0
−50
−100
pull1D
Entries 21
Mean −0.8439
Std Dev 6.725
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

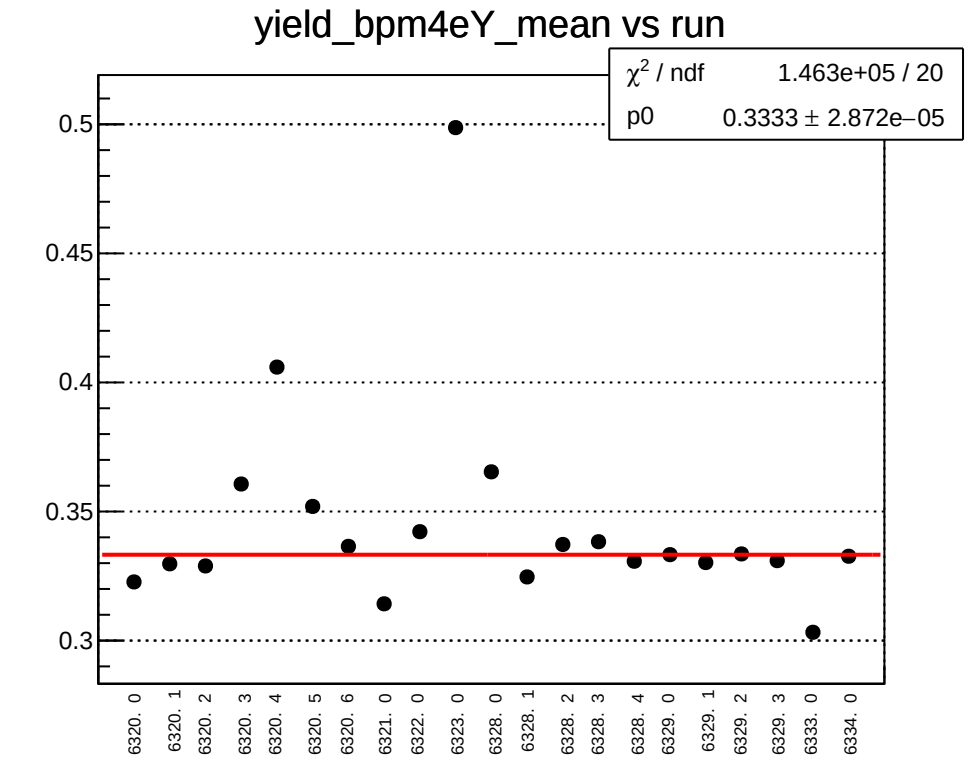

yield_bpm4aY_rms vs run
χ² / ndf 4.263e+04 / 20
p0 0.01252 ± 2.131e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

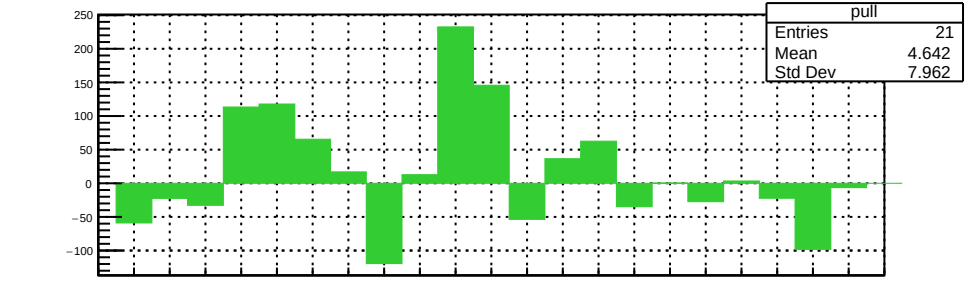

yield_bpm4eX_mean vs run
χ² / ndf 5.62e+04 / 20
p0 −0.03309 ± 6.278e−05
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

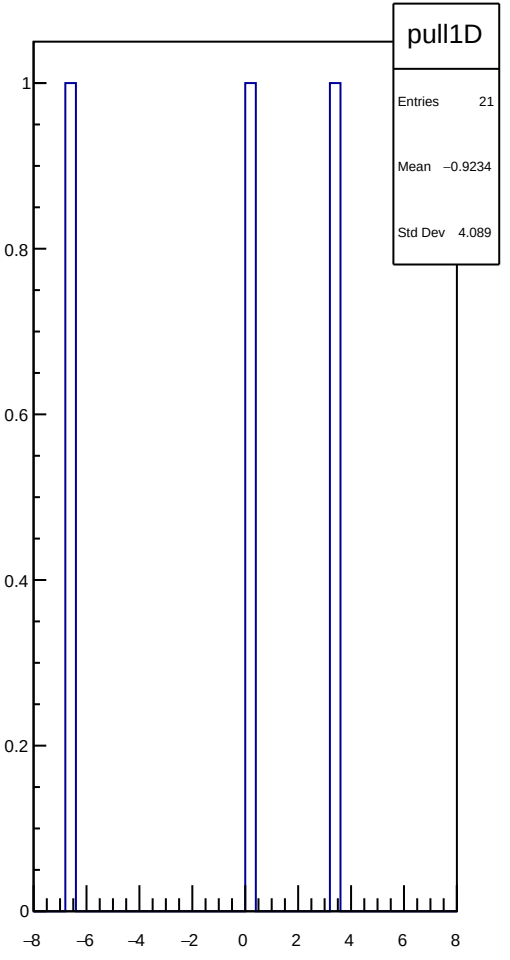

pull
Entries 21
Mean −10.18
Std Dev 17.54
80
60
40
20
0
−20
−40
−60
−80
−100

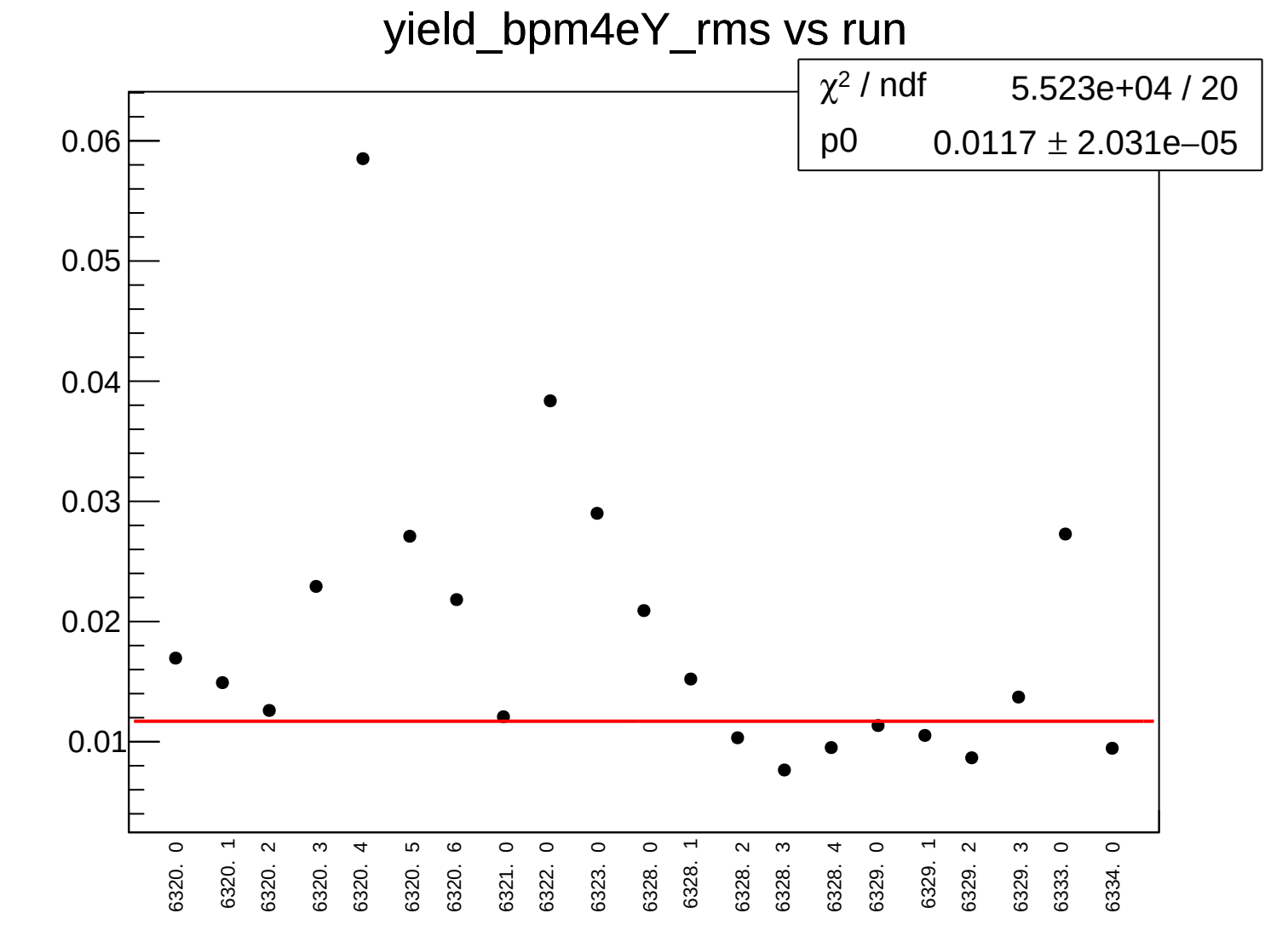

pull1D
Entries 21
Mean 3.042
Std Dev 4.339
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

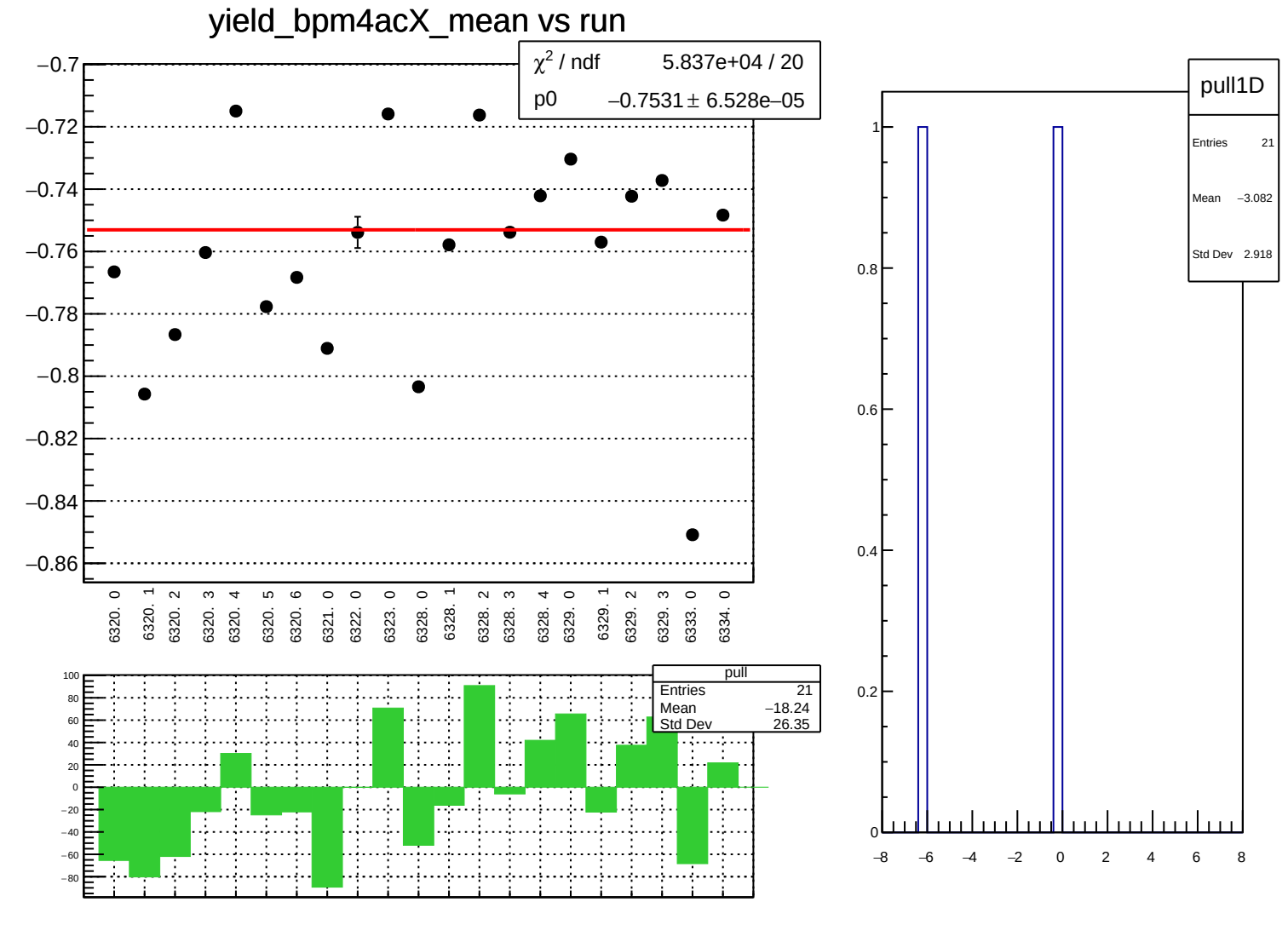

yield_bpm4eX_rms vs run
χ² / ndf 1.022e+05 / 20
p0 0.02371 ± 4.44e–05
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

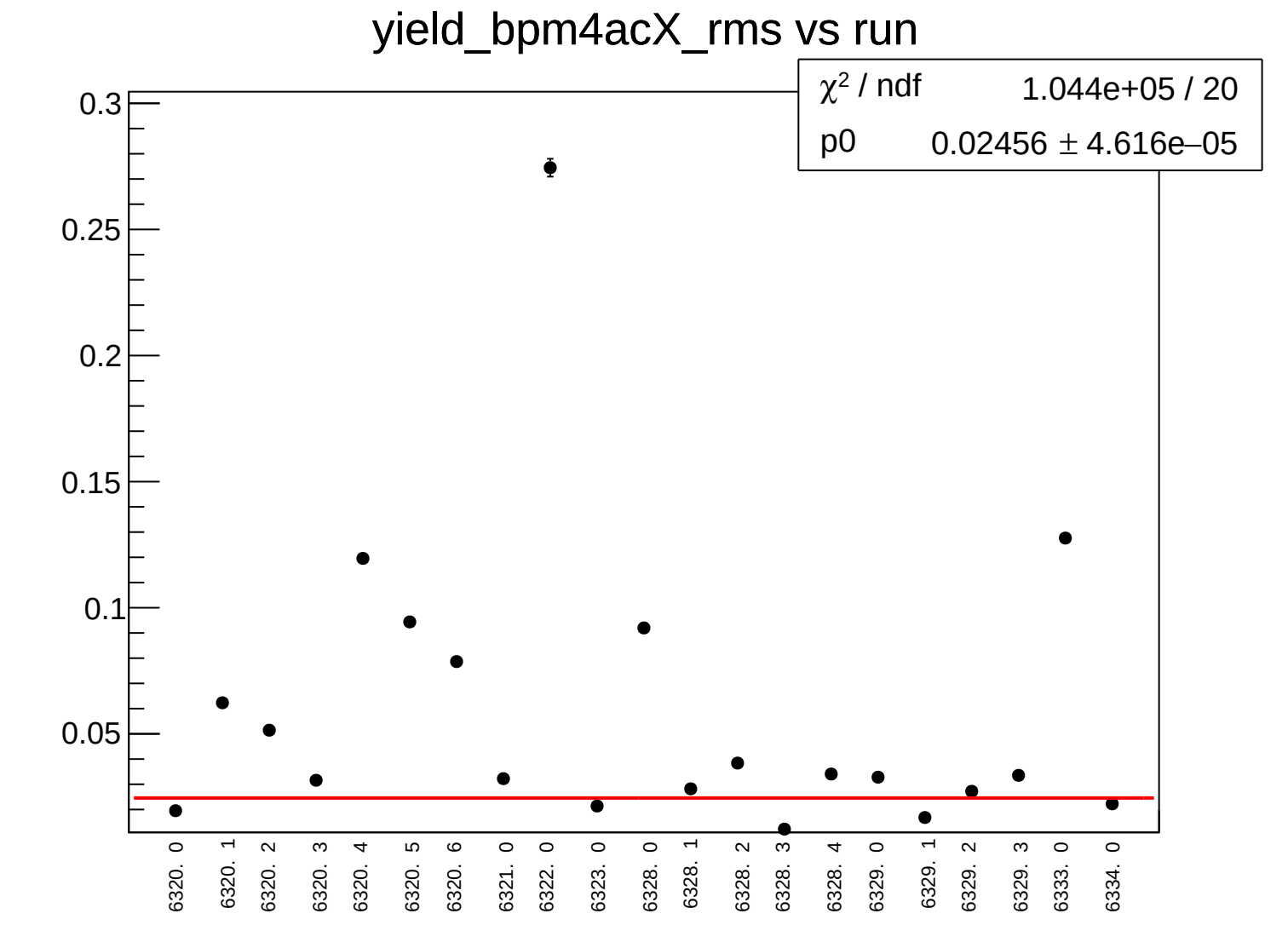

yield_bpm4eY_mean vs run
χ² / ndf 1.463e+05 / 20
p0 0.3333 ± 2.872e−05
0.5
0.45
0.4
0.35
0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

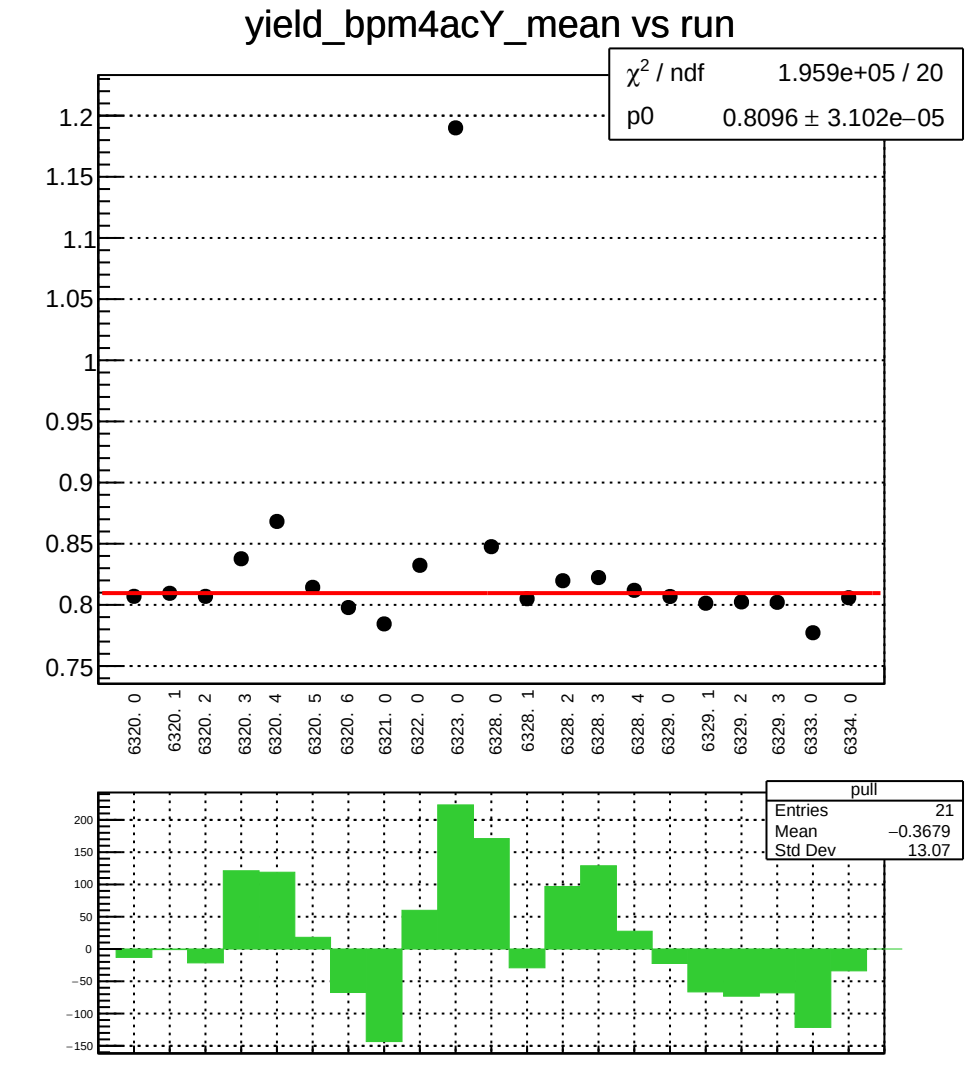

pull
Entries 21
Mean 4.642
Std Dev 7.962
250
200
150
100
50
0
−50
−100

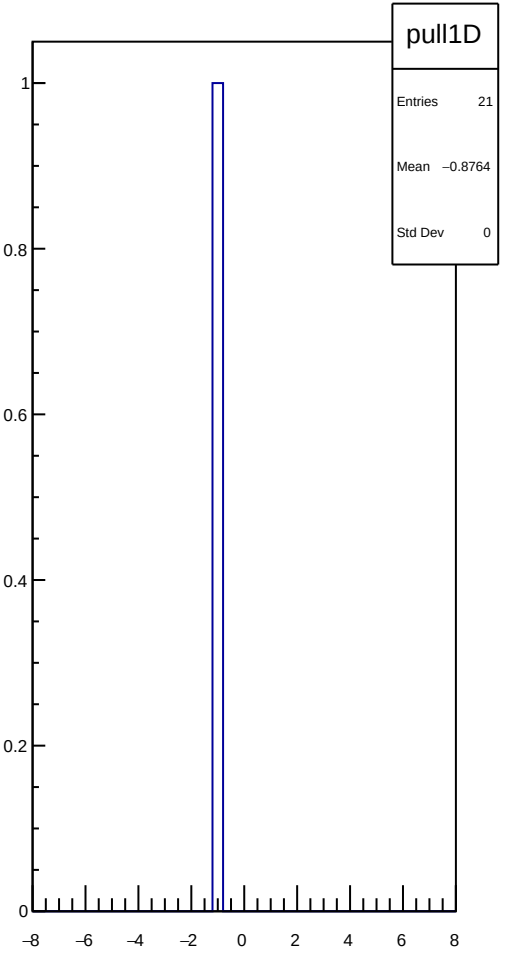

pull1D
Entries 21
Mean −0.9234
Std Dev 4.089
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

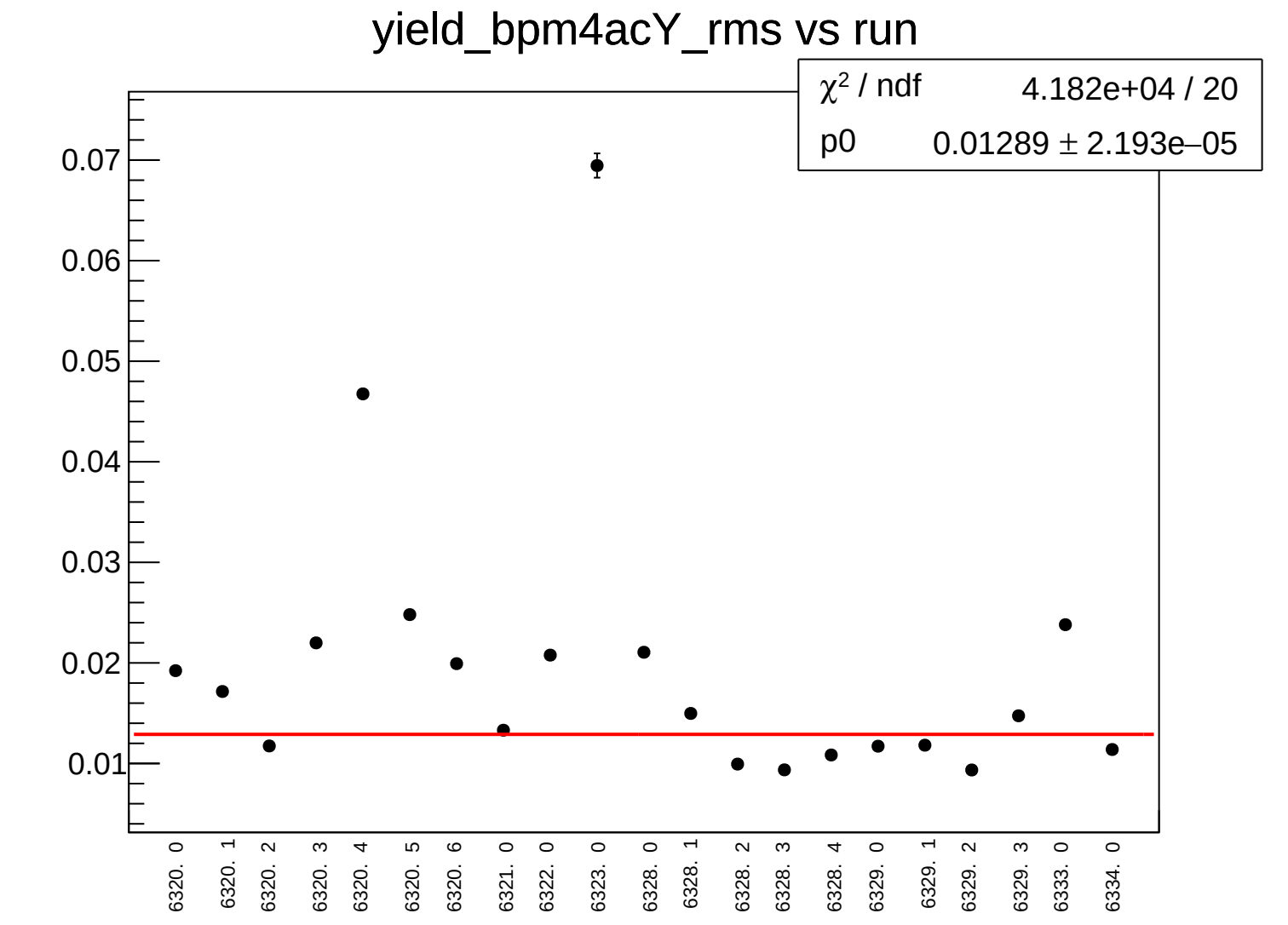

yield_bpm4eY_rms vs run
χ² / ndf 5.523e+04 / 20
p0 0.0117 ± 2.031e−05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

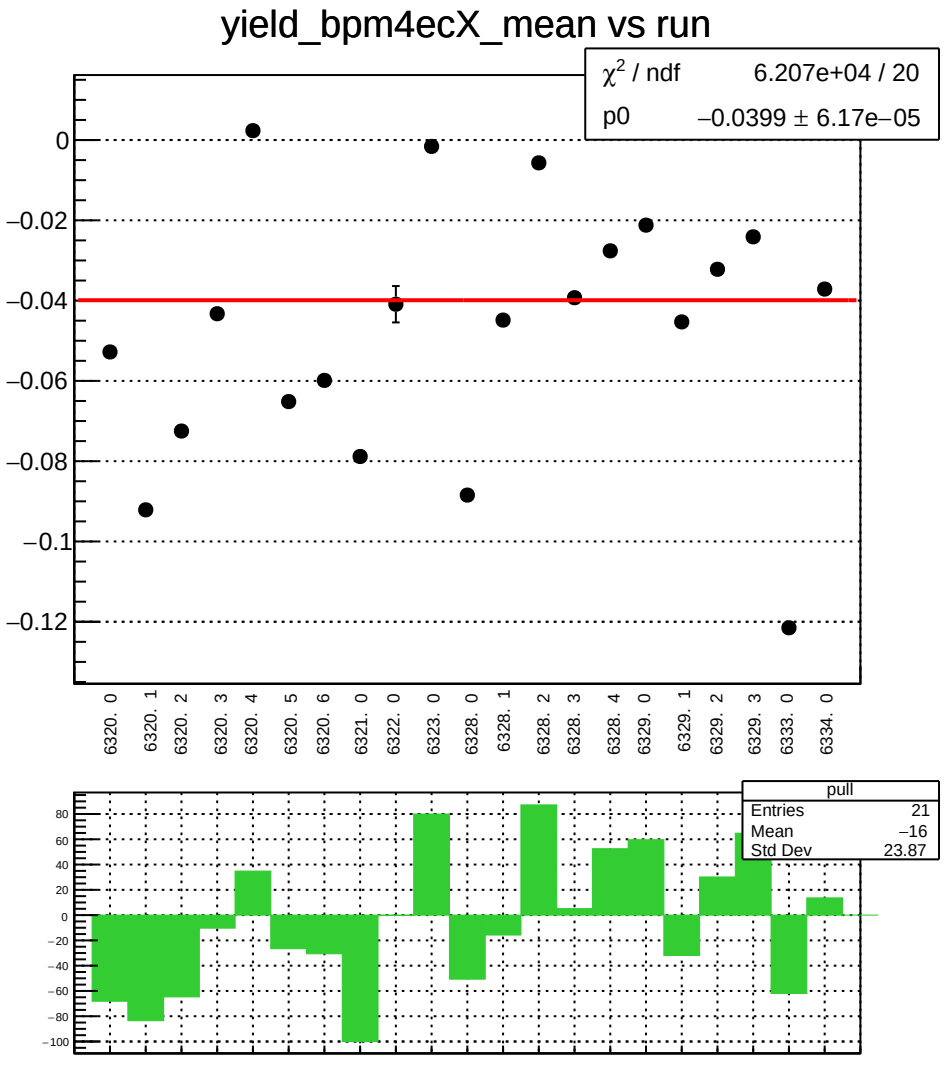

yield_bpm4acX_mean vs run
χ² / ndf 5.837e+04 / 20
p0 −0.7531 ± 6.528e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.24
Std Dev 26.35
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 21
Mean −3.082
Std Dev 2.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

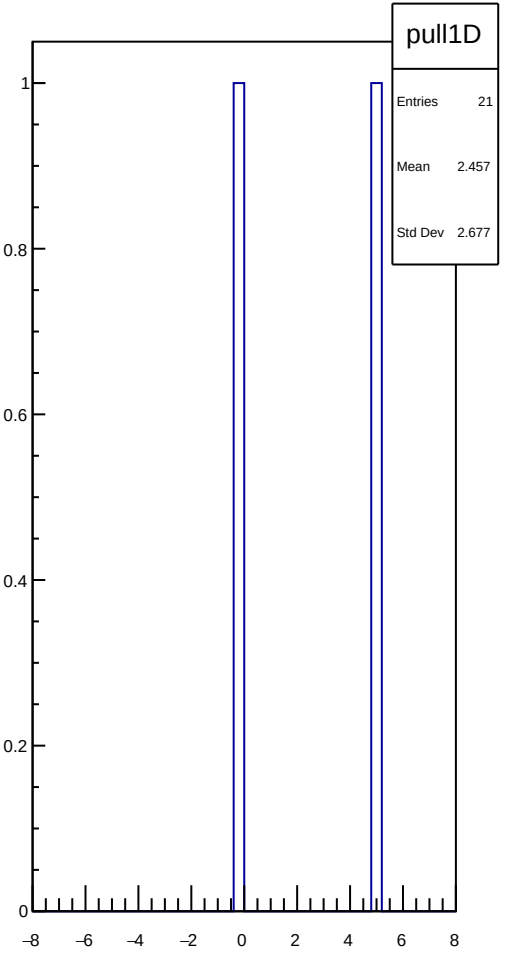

yield_bpm4acX_rms vs run
χ² / ndf 1.044e+05 / 20
p0 0.02456 ± 4.616e–05
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

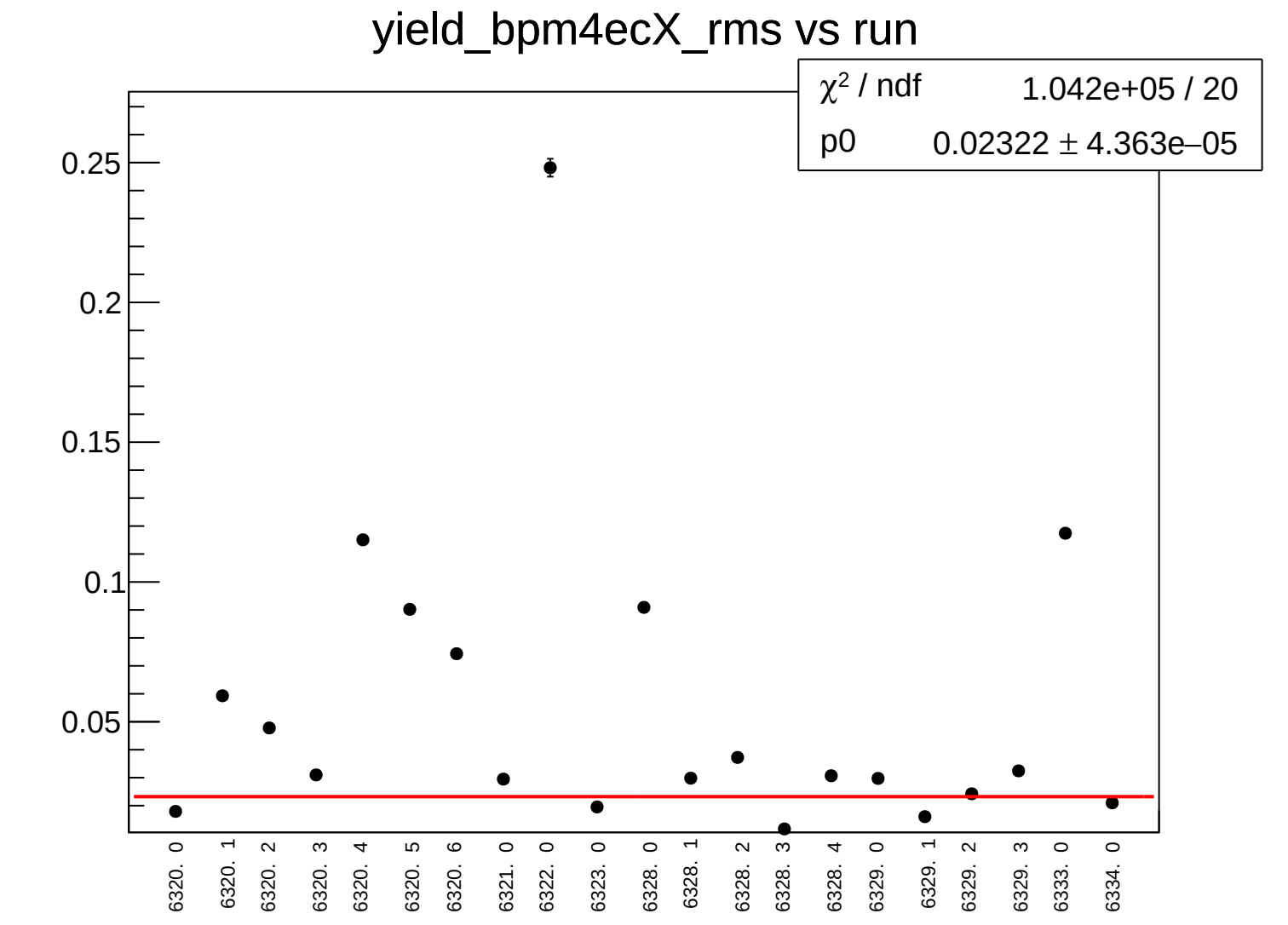

yield_bpm4acY_mean vs run
χ² / ndf 1.959e+05 / 20
p0 0.8096 ± 3.102e−05
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.3679
Std Dev 13.07
200
150
100
50
0
−50
−100
−150

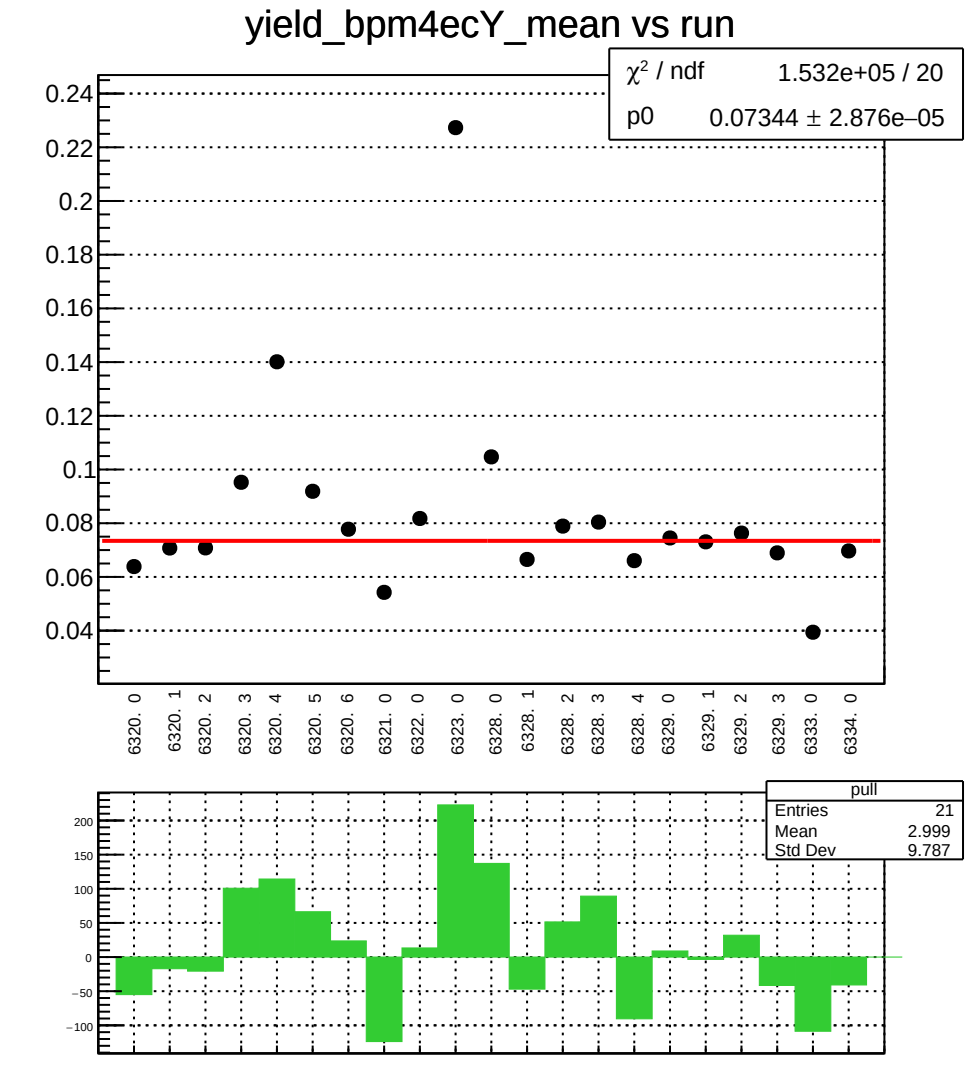

pull1D
Entries 21
Mean −0.8764
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

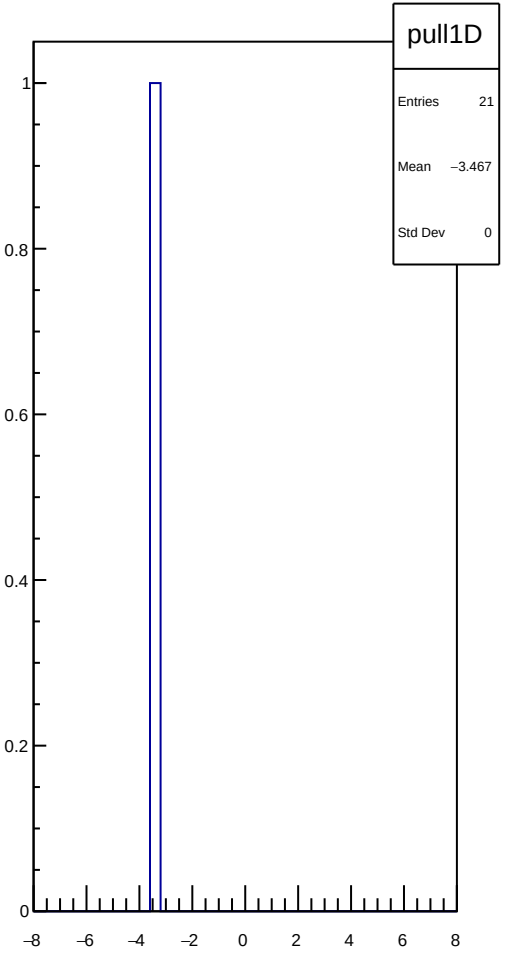

yield_bpm4acY_rms vs run
χ² / ndf 4.182e+04 / 20
p0 0.01289 ± 2.193e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

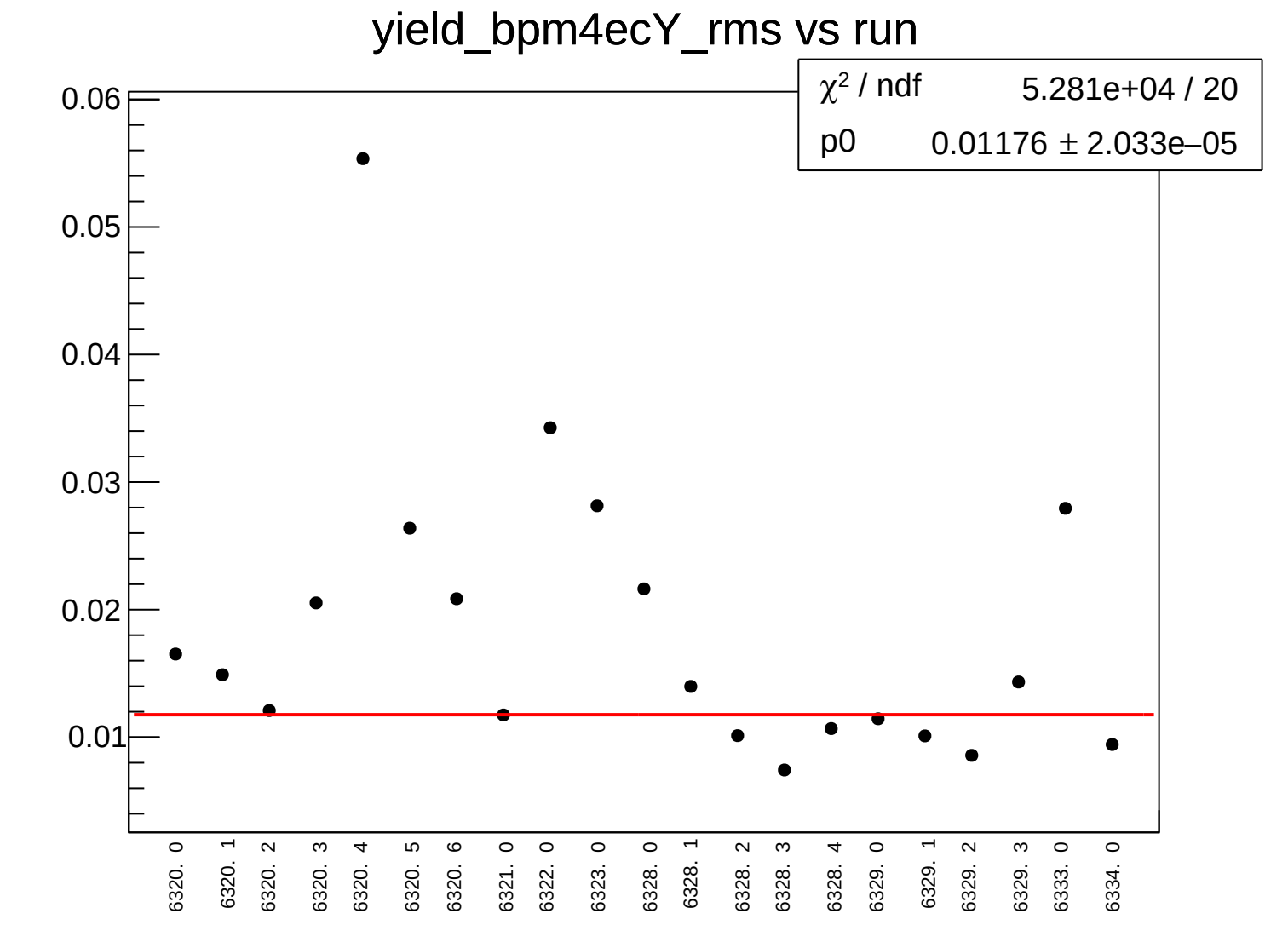

yield_bpm4ecX_mean vs run
χ² / ndf 6.207e+04 / 20
p0 −0.0399 ± 6.17e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16
Std Dev 23.87
80
60
40
20
0
−20
−40
−60
−80
−100

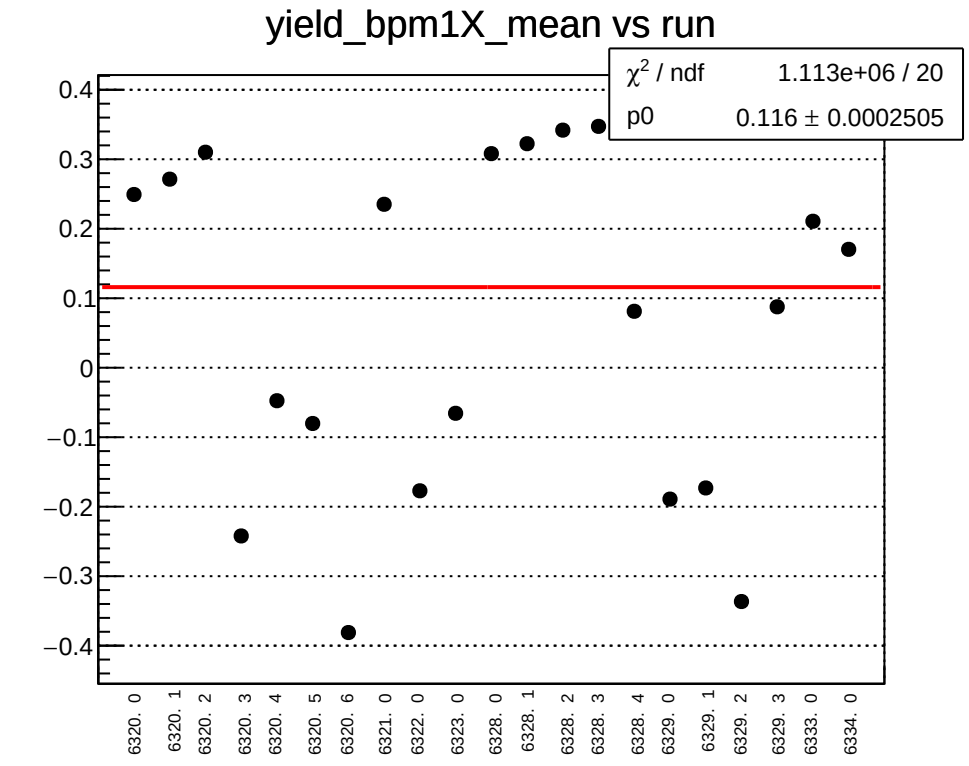

pull1D
Entries 21
Mean 2.457
Std Dev 2.677
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

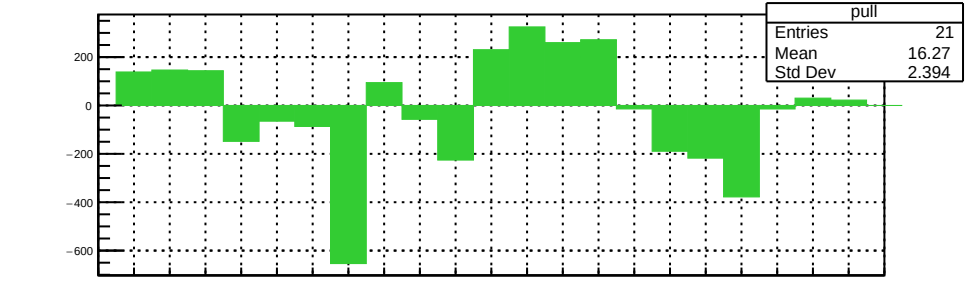

yield_bpm4ecX_rms vs run
χ² / ndf 1.042e+05 / 20
p0 0.02322 ± 4.363e–05
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

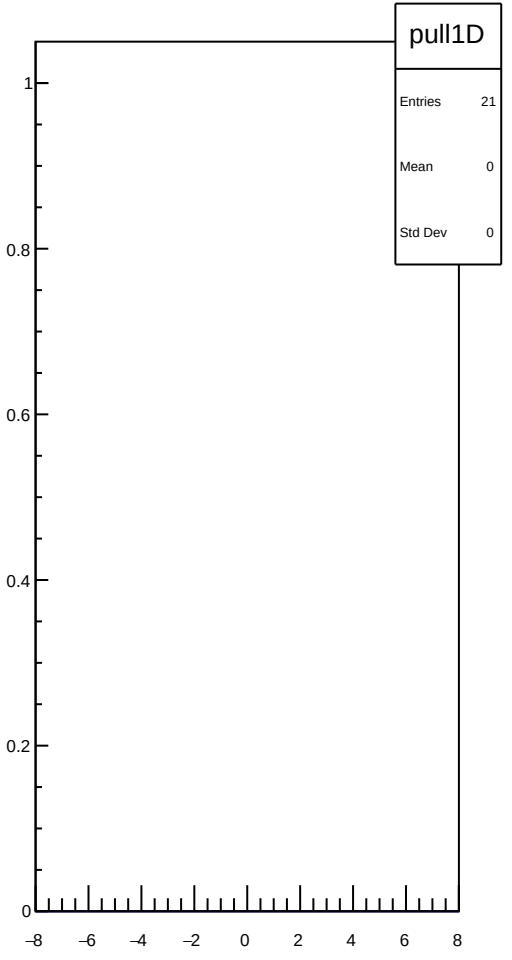

yield_bpm4ecY_mean vs run
χ² / ndf 1.532e+05 / 20
p0 0.07344 ± 2.876e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.999
Std Dev 9.787
200
150
100
50
0
−50
−100

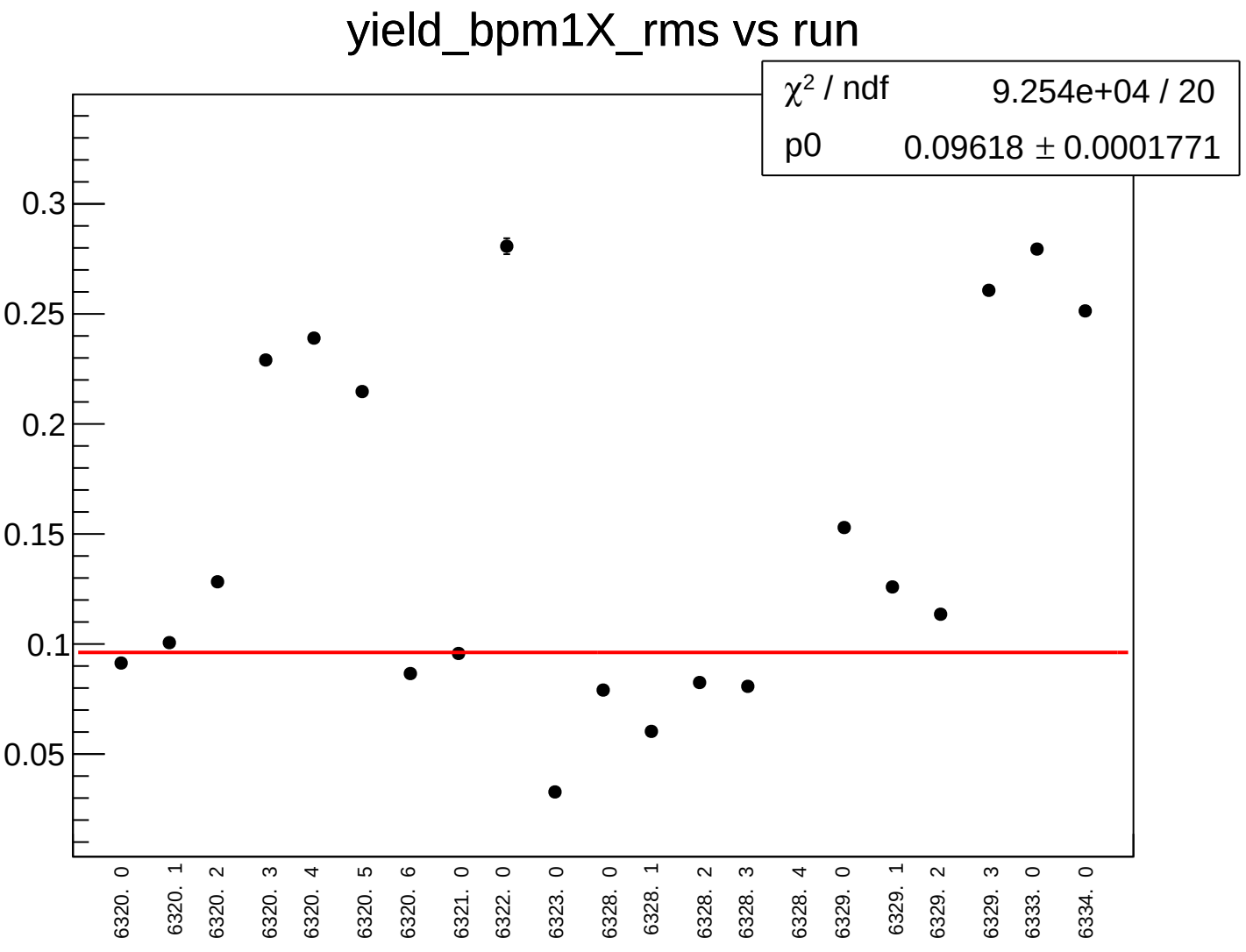

pull1D
Entries 21
Mean −3.467
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

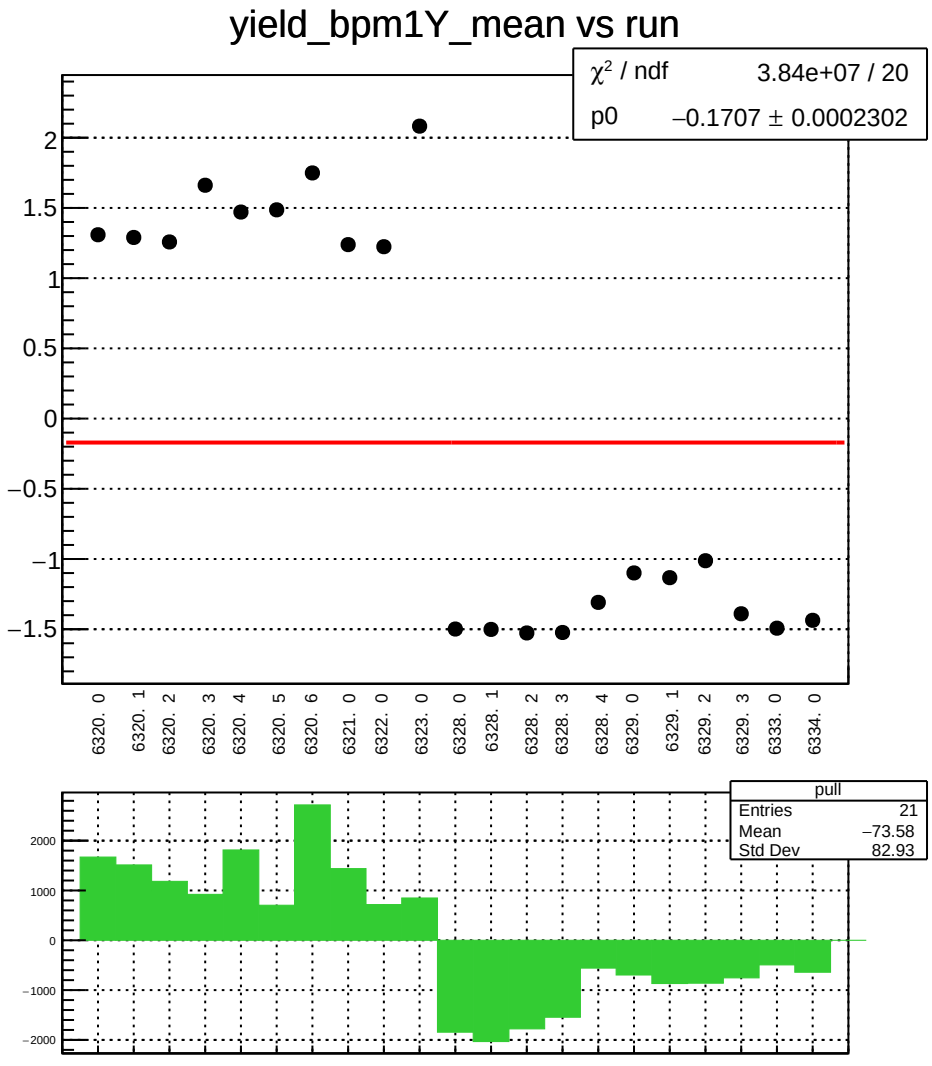

yield_bpm4ecY_rms vs run
χ² / ndf 5.281e+04 / 20
p0 0.01176 ± 2.033e–05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

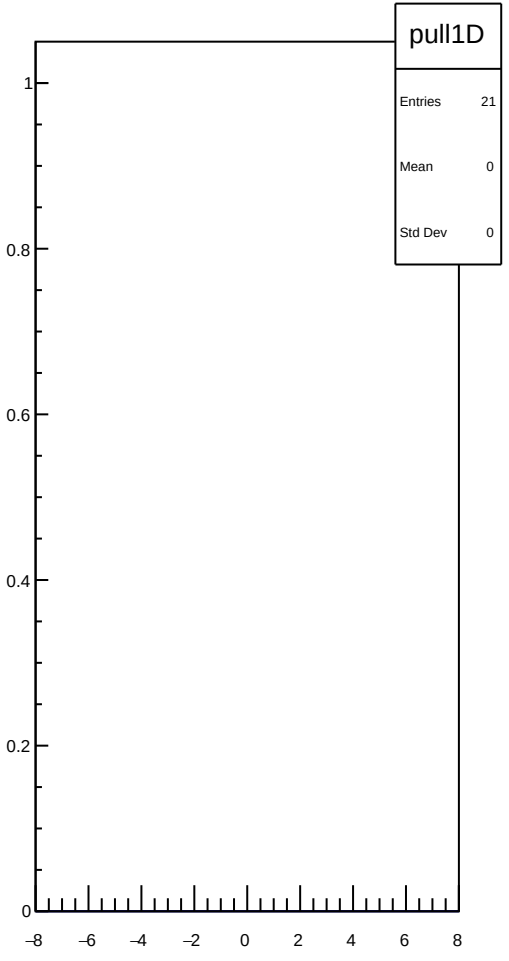

yield_bpm1X_mean vs run
χ² / ndf 1.113e+06 / 20
p0 0.116 ± 0.0002505
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

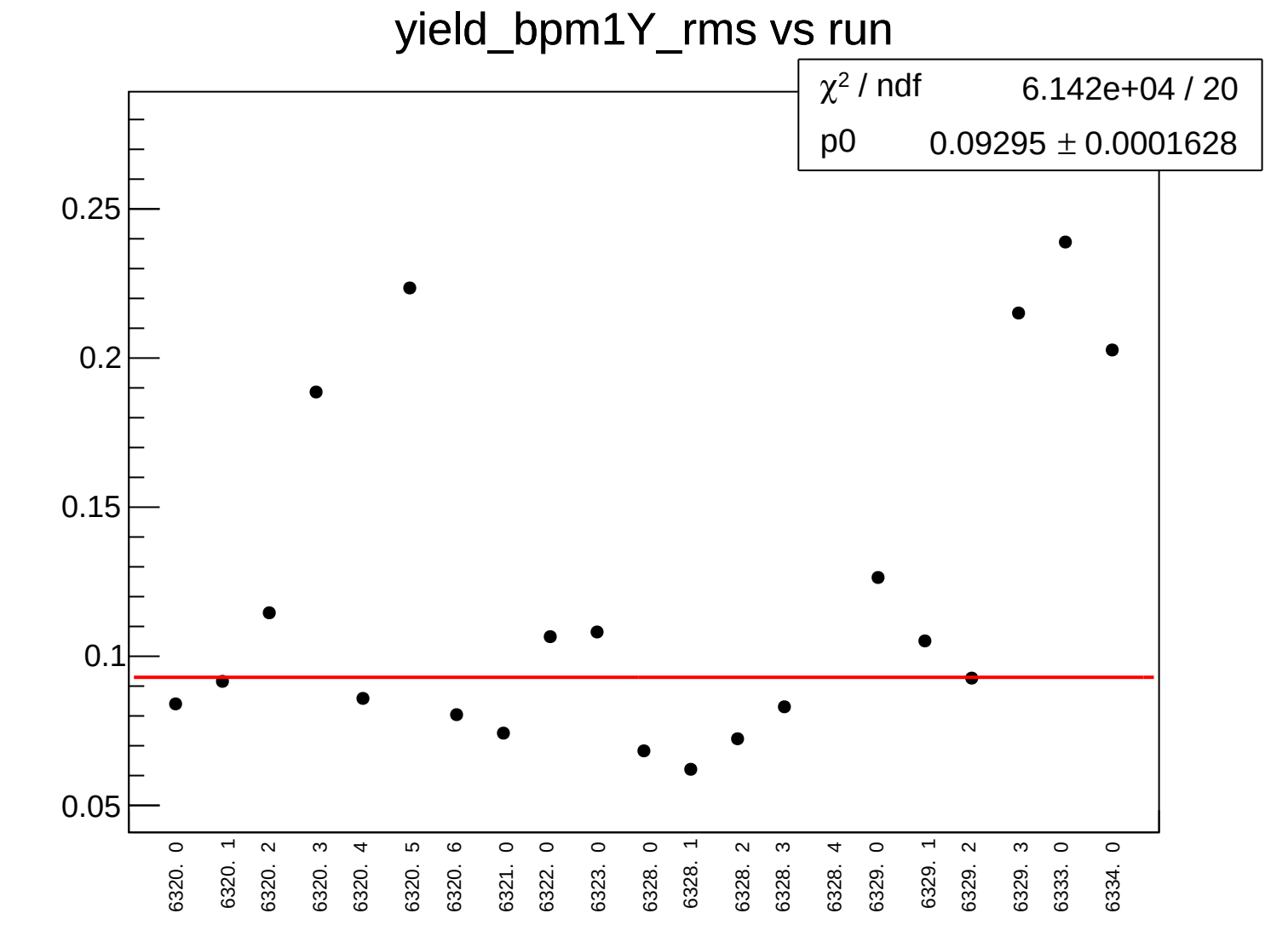

pull
Entries 21
Mean 16.27
Std Dev 2.394
200
0
−200
−400
−600

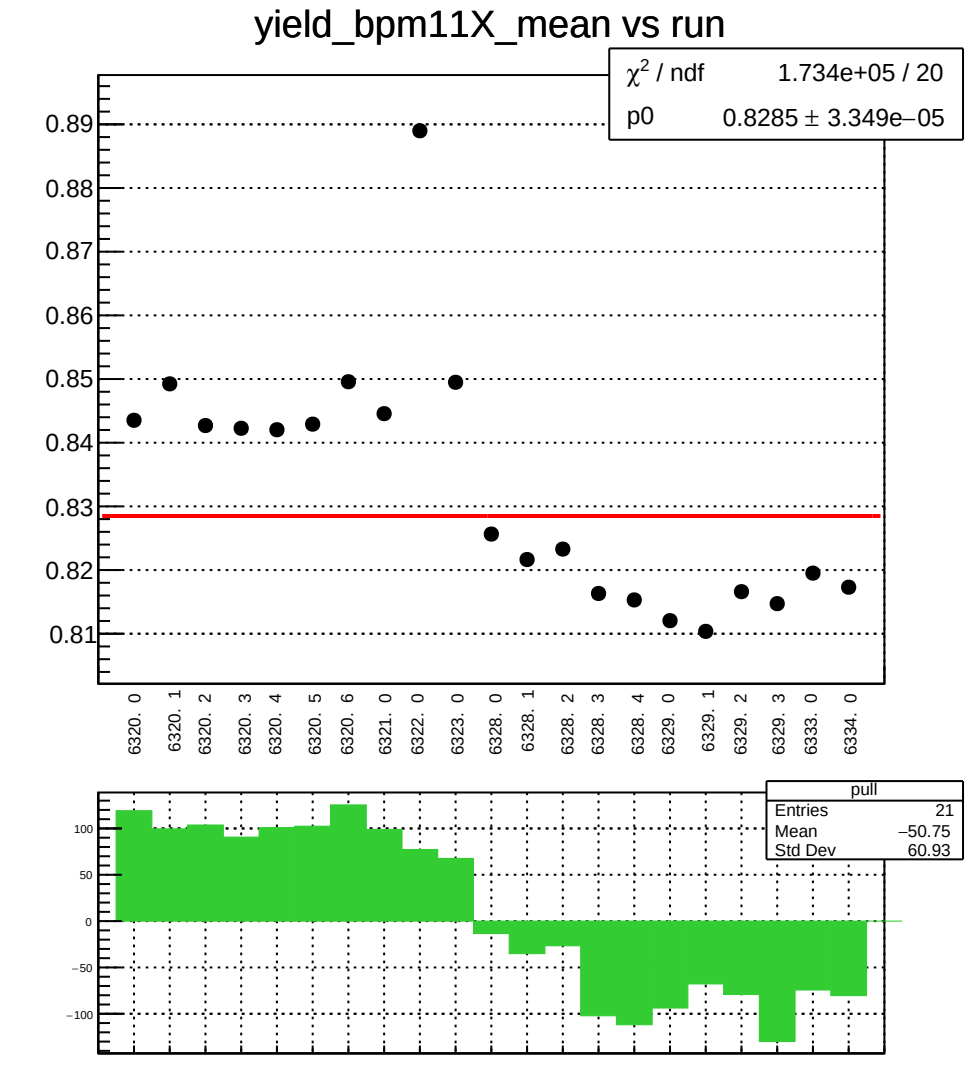

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

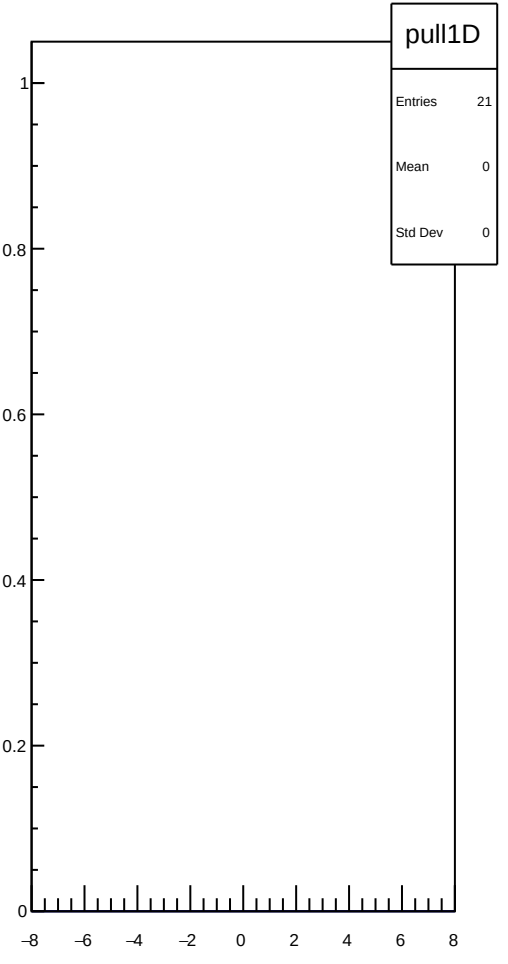

yield_bpm1X_rms vs run
χ² / ndf 9.254e+04 / 20
p0 0.09618 ± 0.0001771
0.3
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

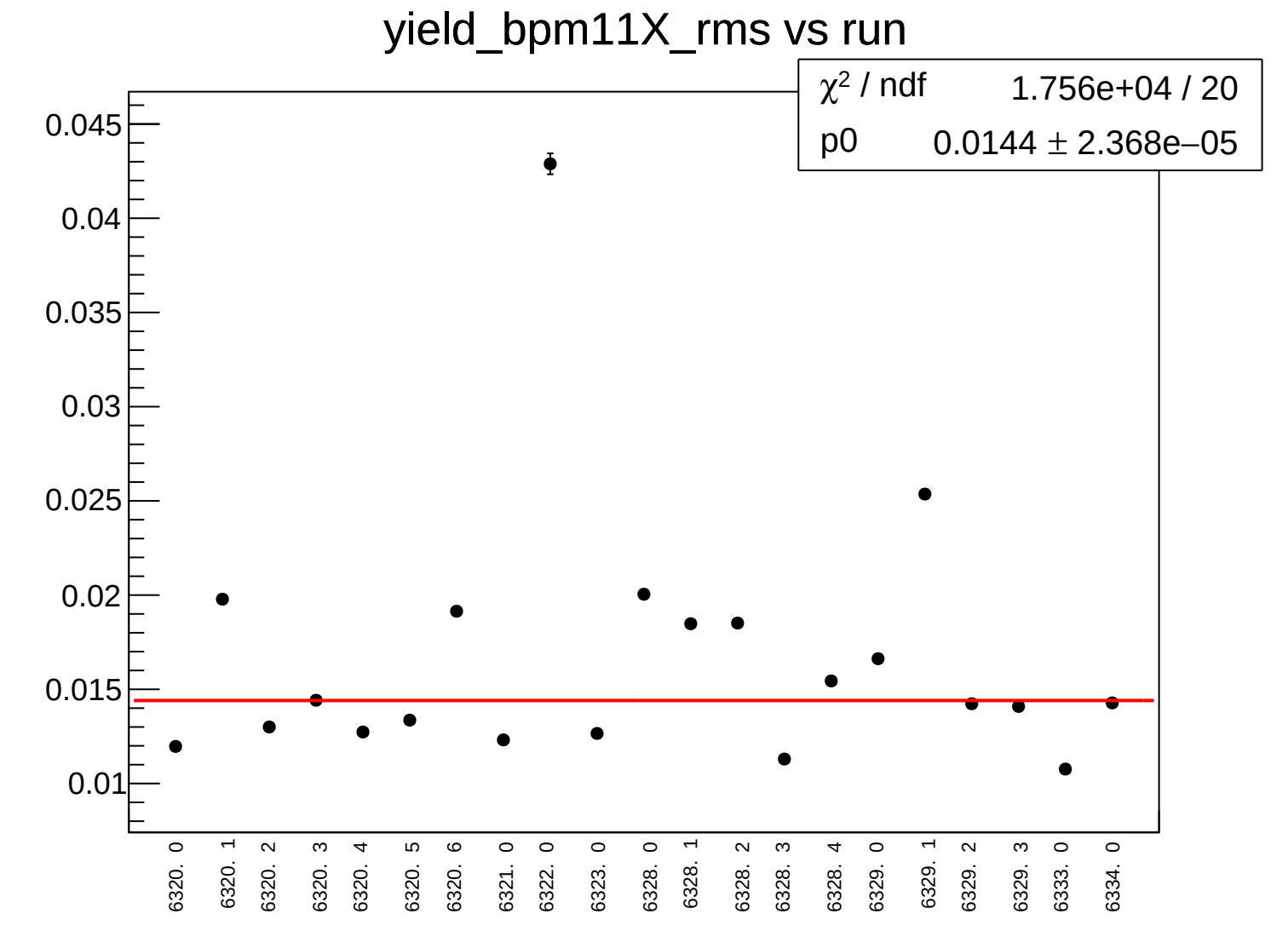

yield_bpm1Y_mean vs run
χ² / ndf 3.84e+07 / 20
p0 −0.1707 ± 0.0002302
2
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −73.58
Std Dev 82.93
2000
1000
0
−1000
−2000

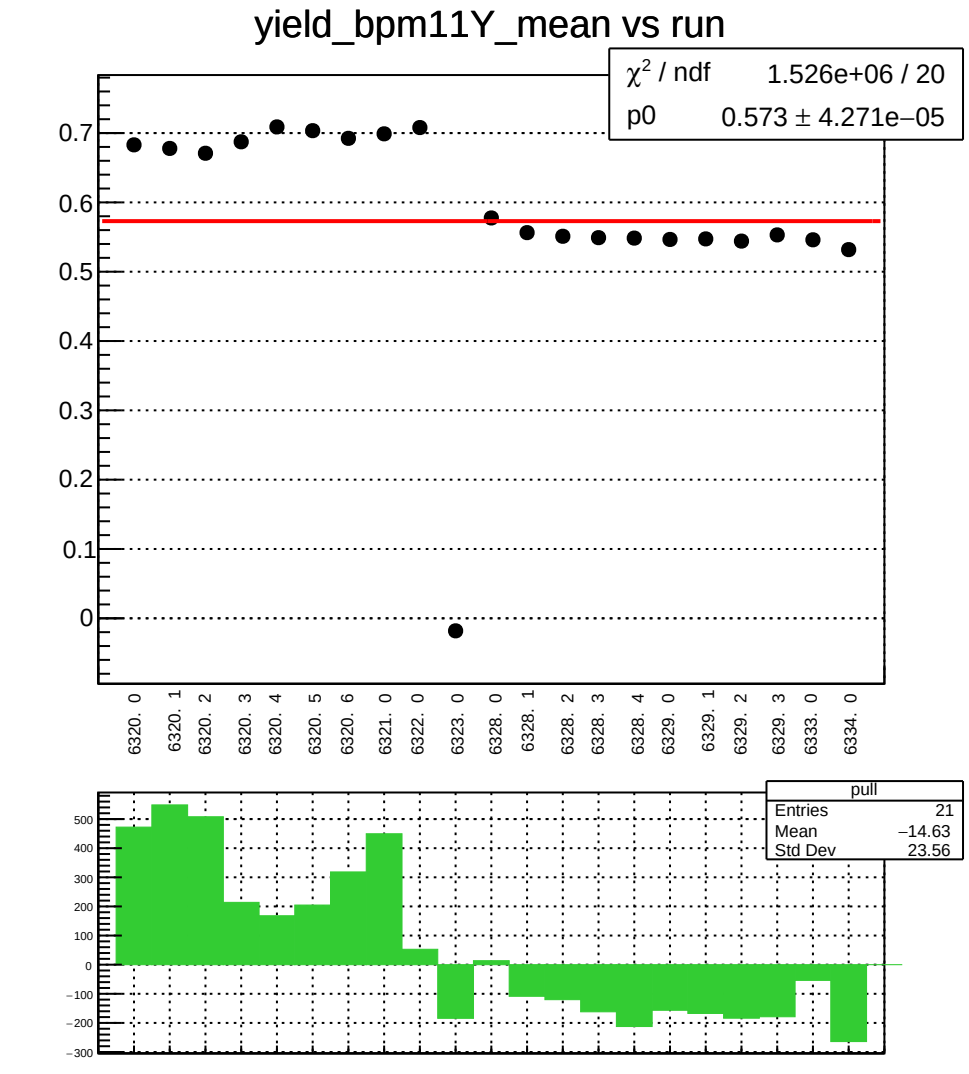

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

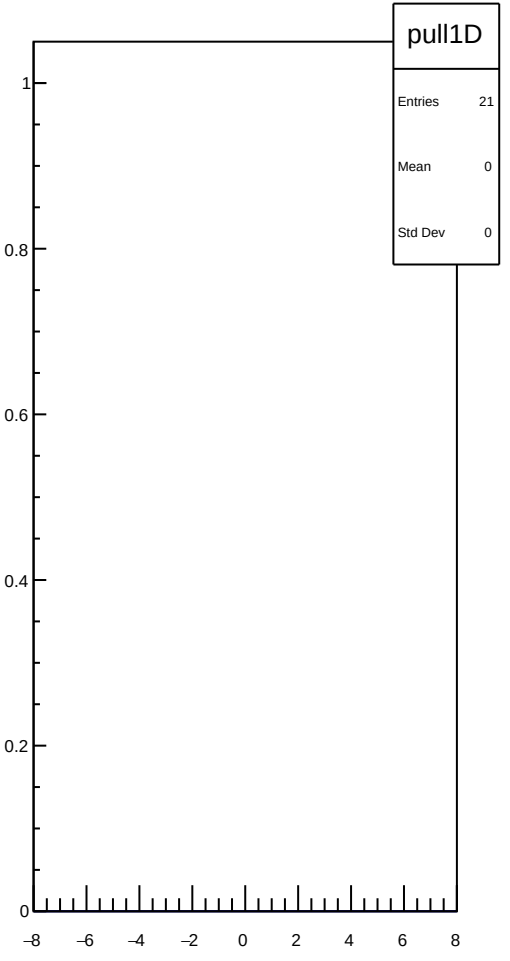

yield_bpm1Y_rms vs run
χ² / ndf 6.142e+04 / 20
p0 0.09295 ± 0.0001628
0.25
0.2
0.15
0.1
0.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

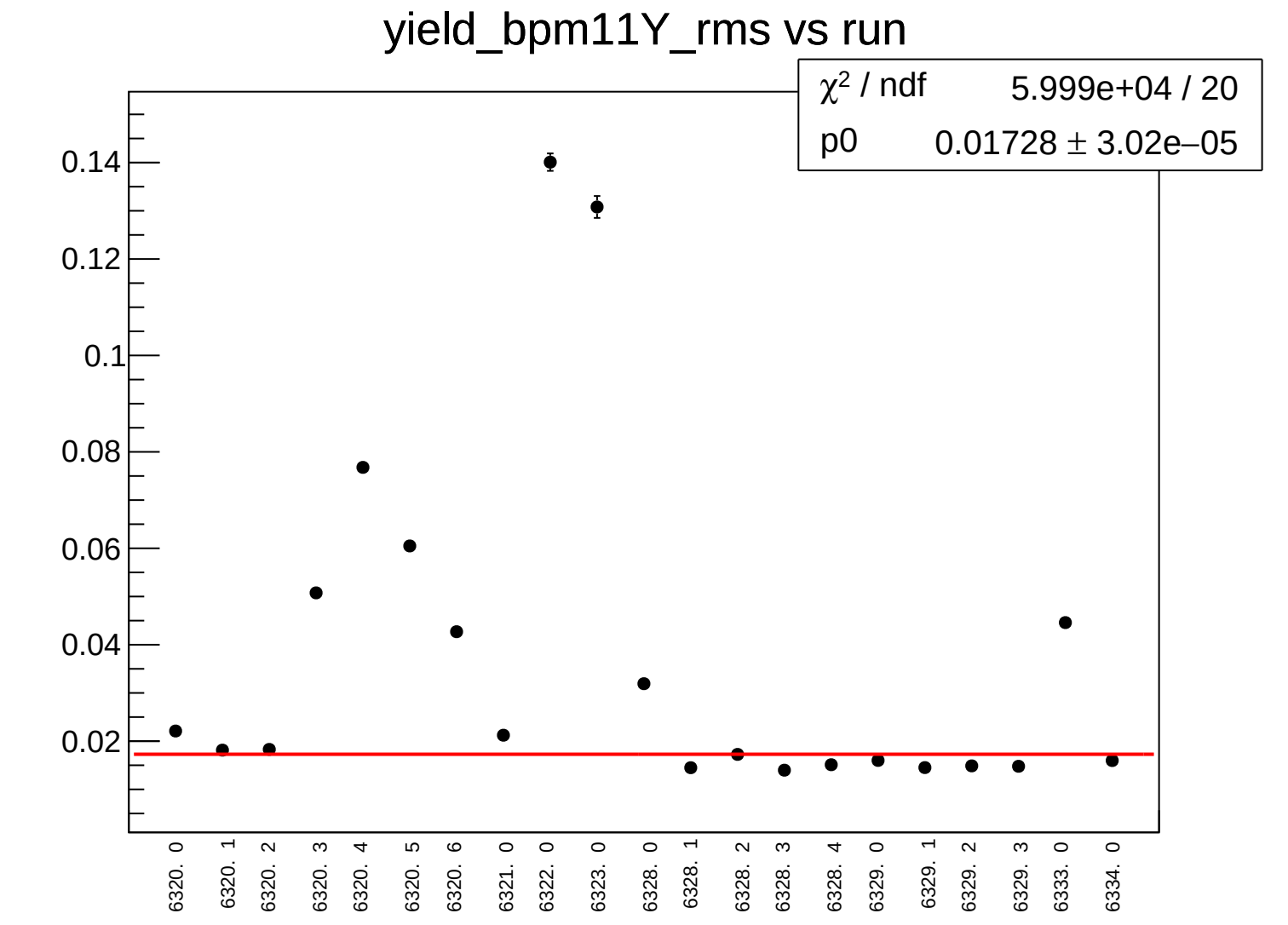

yield_bpm11X_mean vs run
χ² / ndf 1.734e+05 / 20
p0 0.8285 ± 3.349e−05
0.89
0.88
0.87
0.86
0.85
0.84
0.83
0.82
0.81
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −50.75
Std Dev 60.93
100
50
0
−50
−100

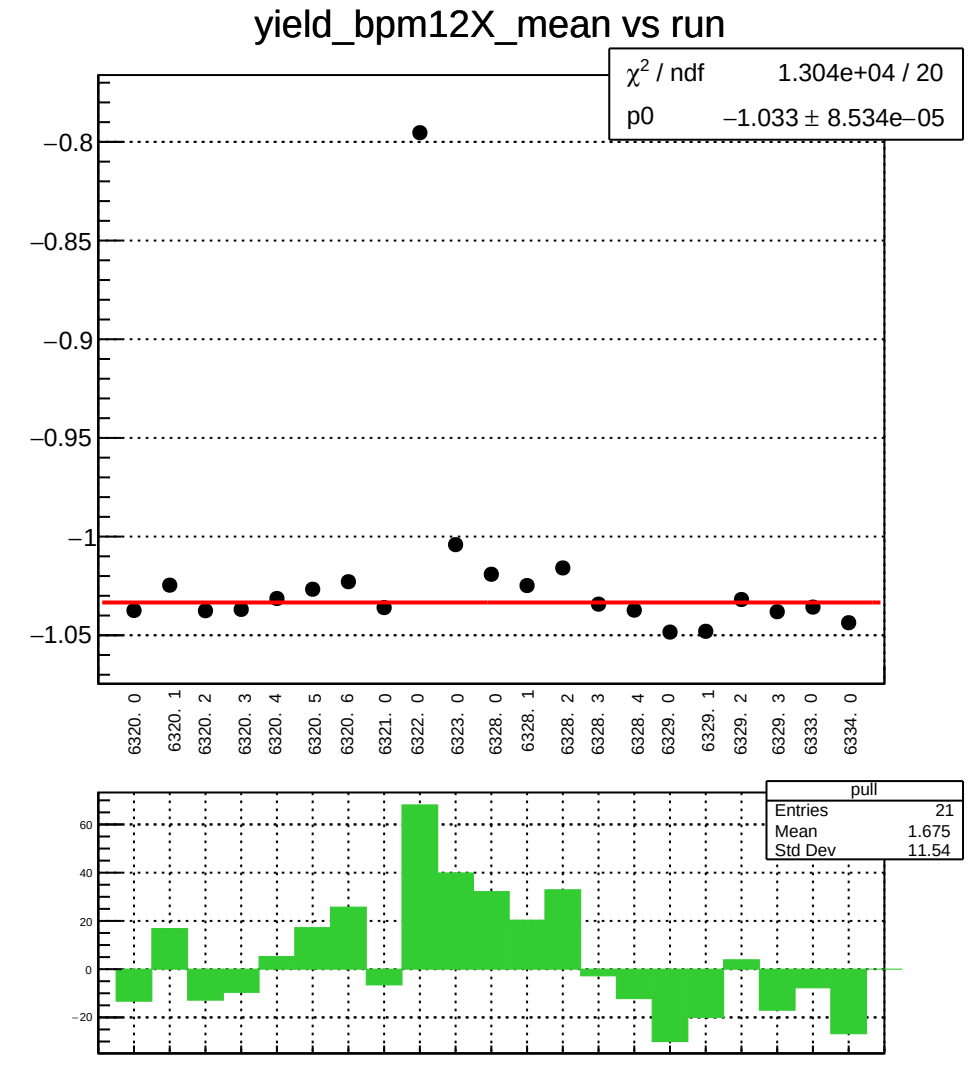

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

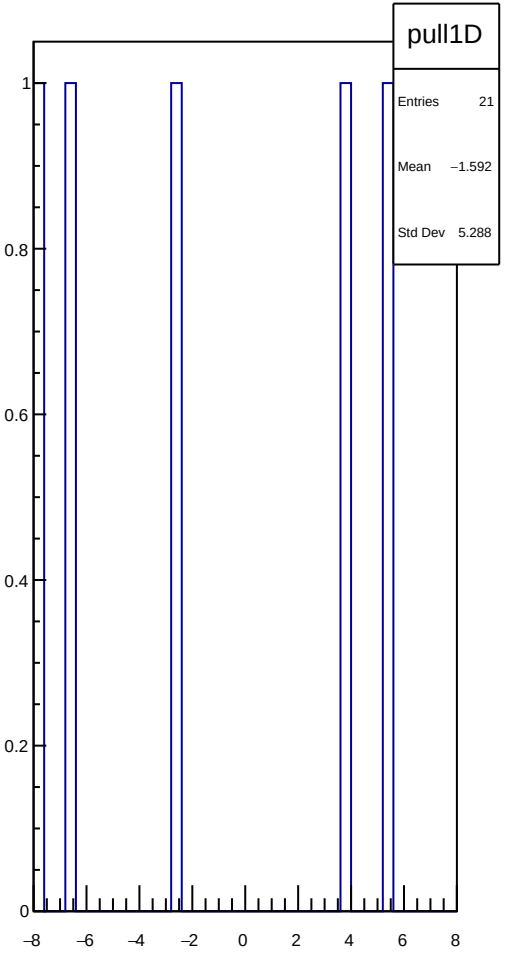

yield_bpm11X_rms vs run
χ² / ndf 1.756e+04 / 20
p0 0.0144 ± 2.368e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

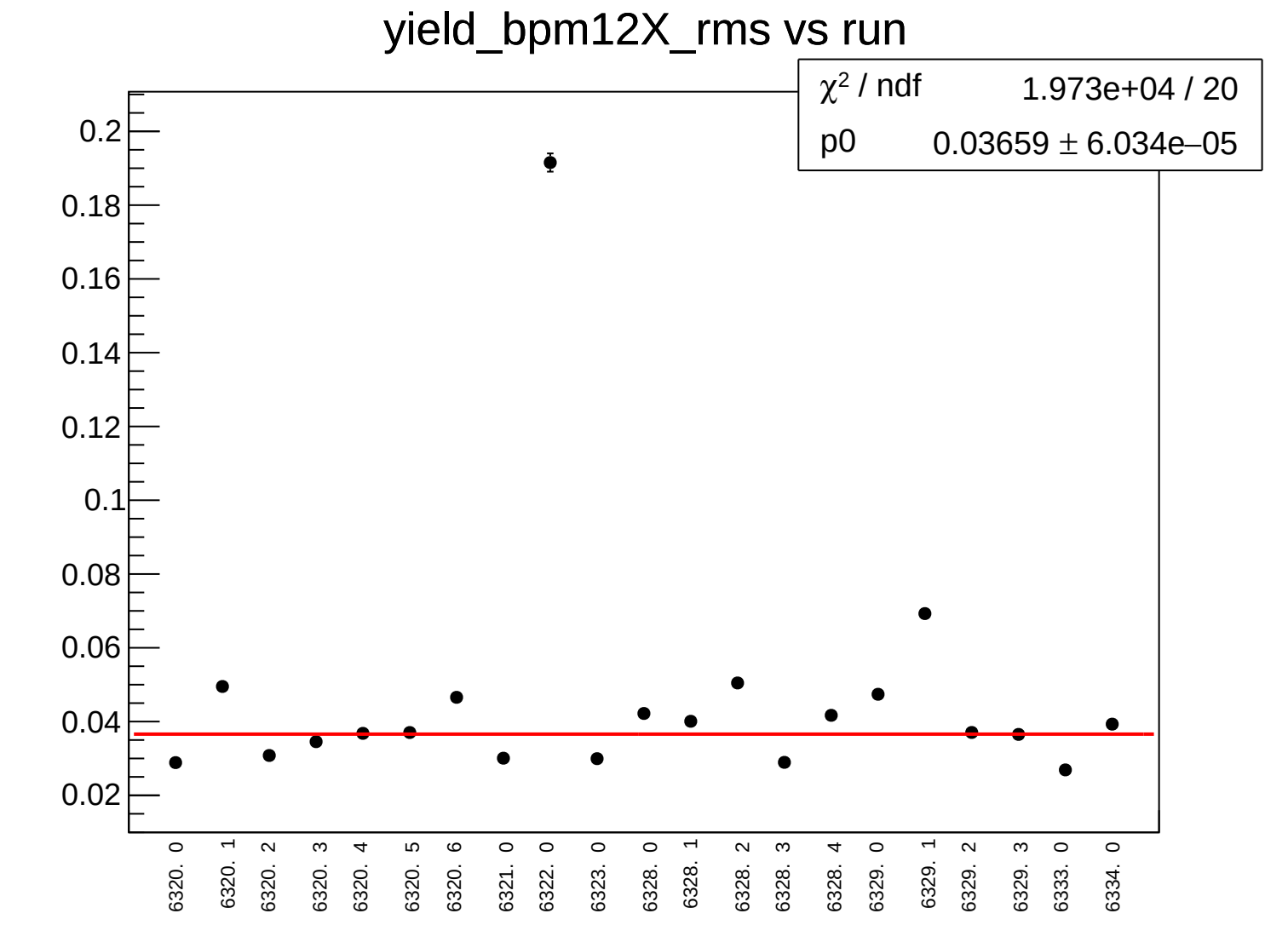

yield_bpm11Y_mean vs run
χ² / ndf 1.526e+06 / 20
p0 0.573 ± 4.271e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.63
Std Dev 23.56
500
400
300
200
100
0
−100
−200
−300

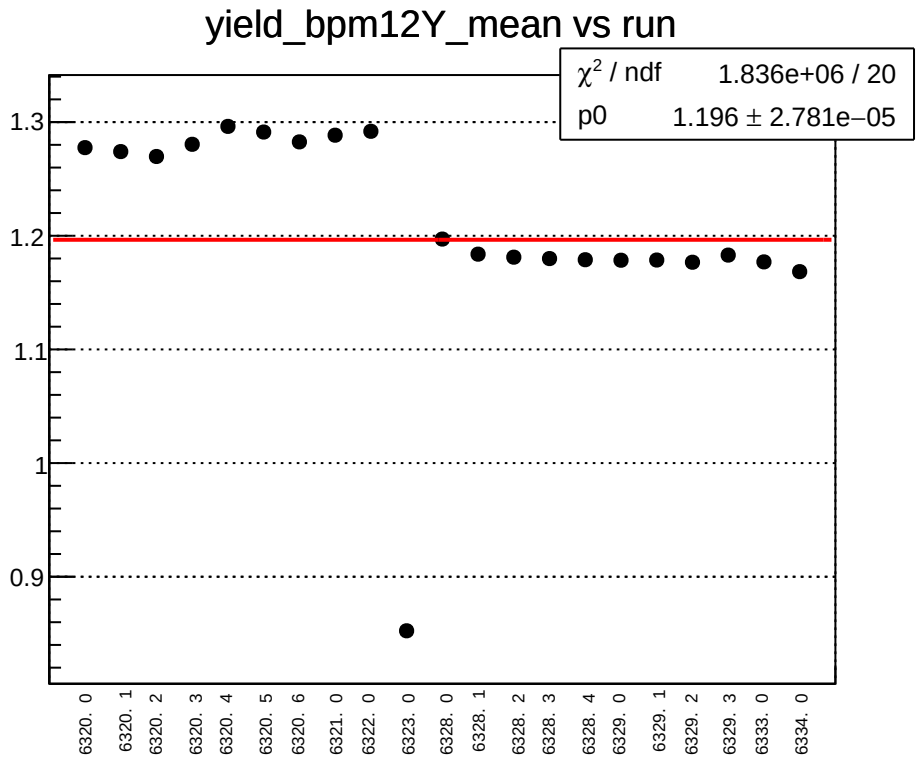

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

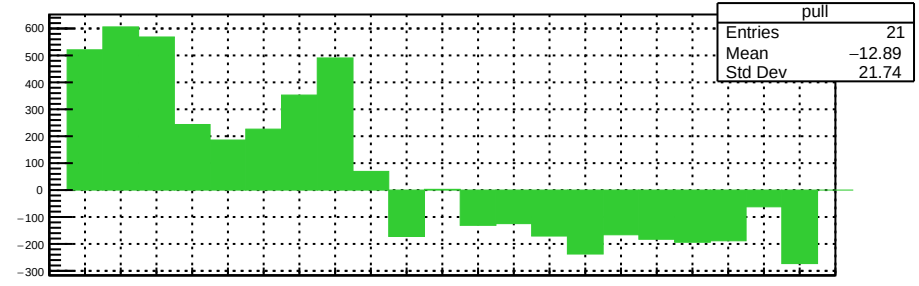

yield_bpm11Y_rms vs run
χ² / ndf 5.999e+04 / 20
p0 0.01728 ± 3.02e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

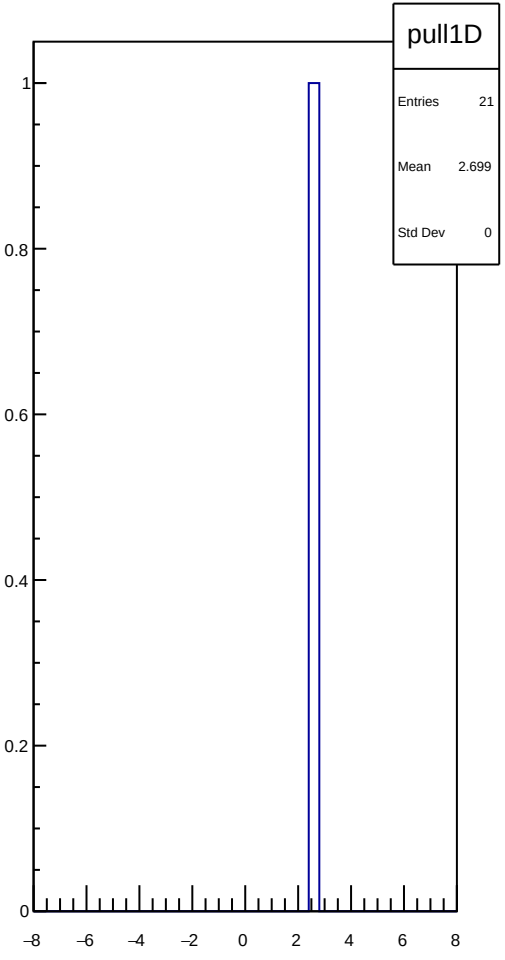

yield_bpm12X_mean vs run
χ² / ndf 1.304e+04 / 20
p0 −1.033 ± 8.534e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.675
Std Dev 11.54
60
40
20
0
−20

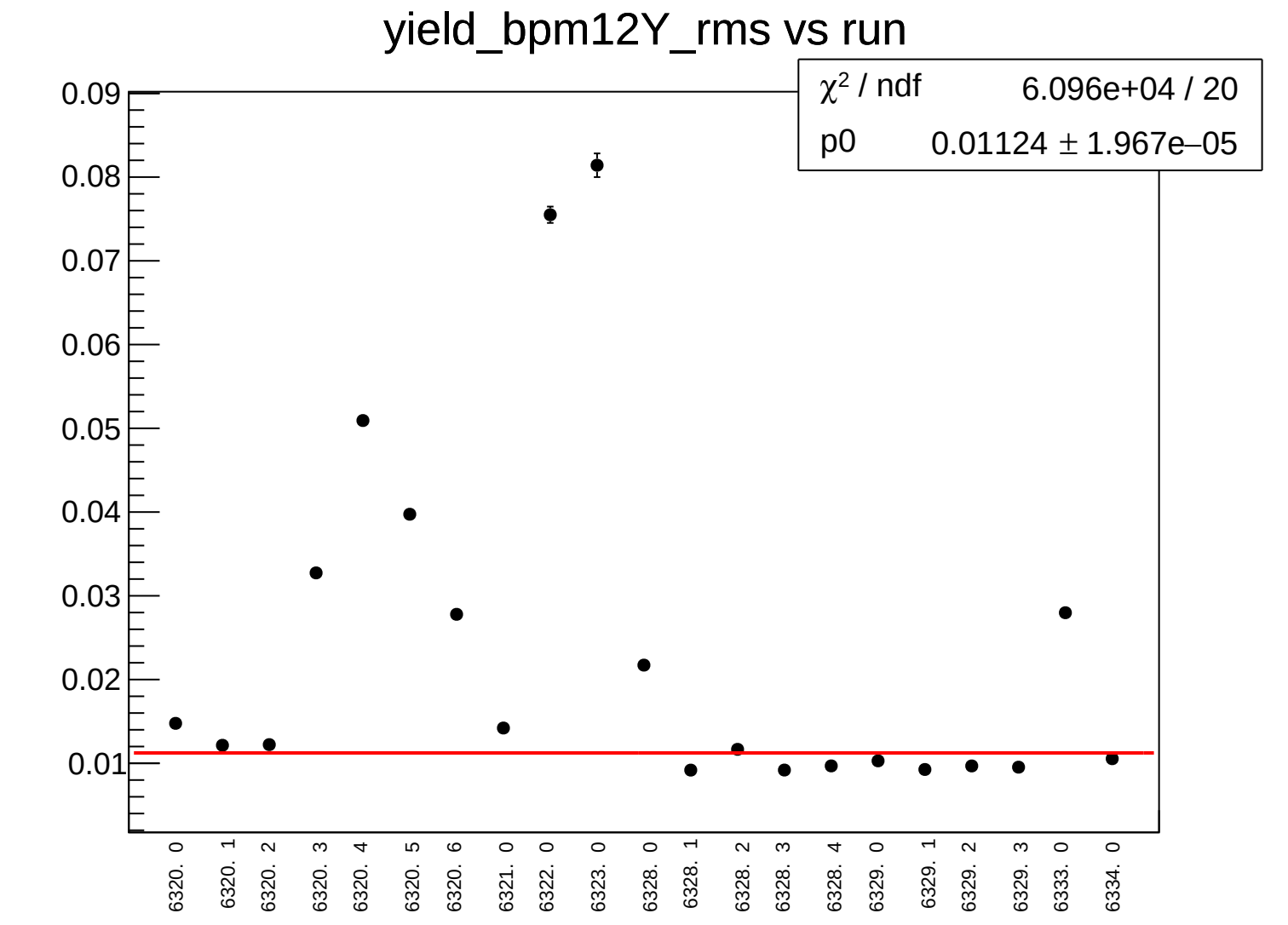

pull1D
Entries 21
Mean −1.592
Std Dev 5.288
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

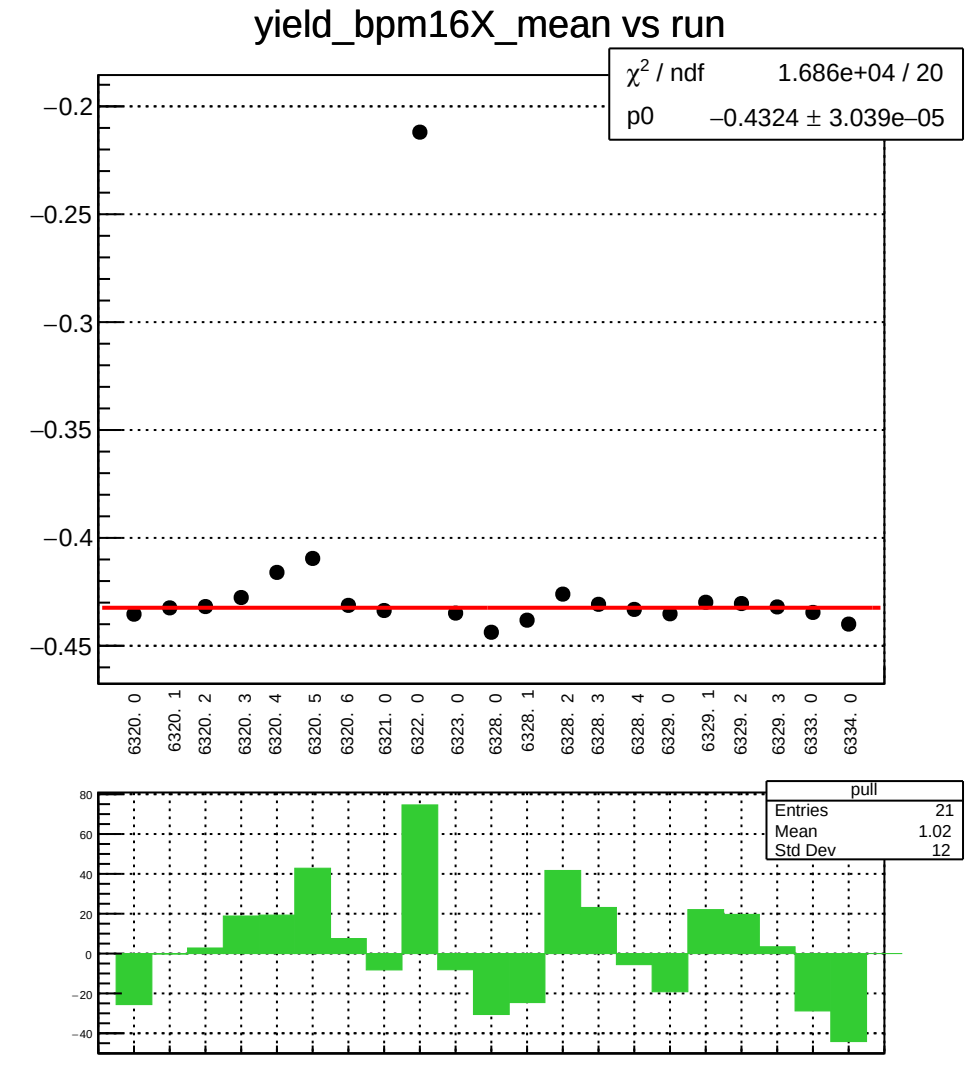

yield_bpm12X_rms vs run
χ² / ndf 1.973e+04 / 20
p0 0.03659 ± 6.034e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

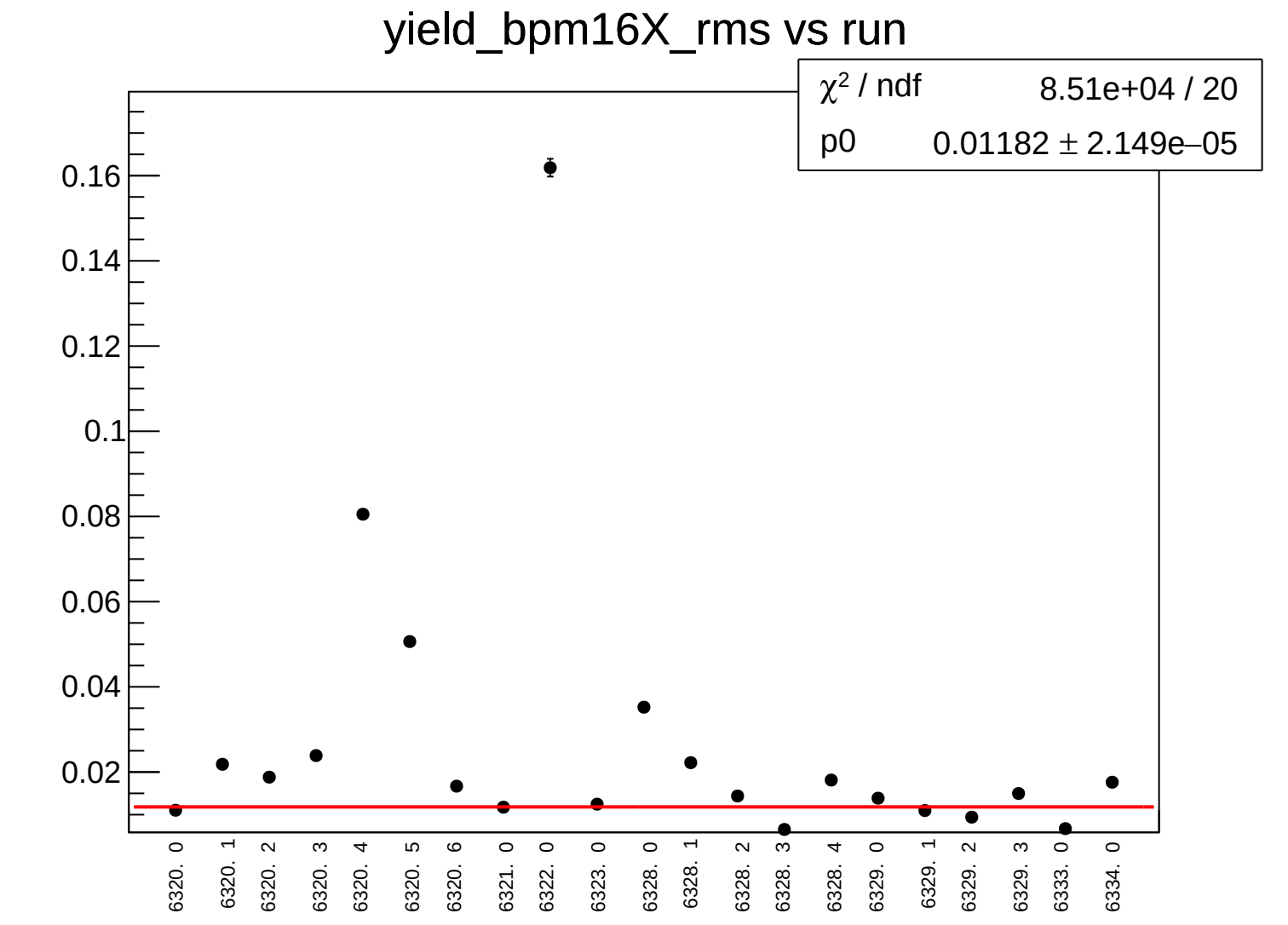

yield_bpm12Y_mean vs run
χ² / ndf 1.836e+06 / 20
p0 1.196 ± 2.781e−05
1.3
1.2
1.1
1
0.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

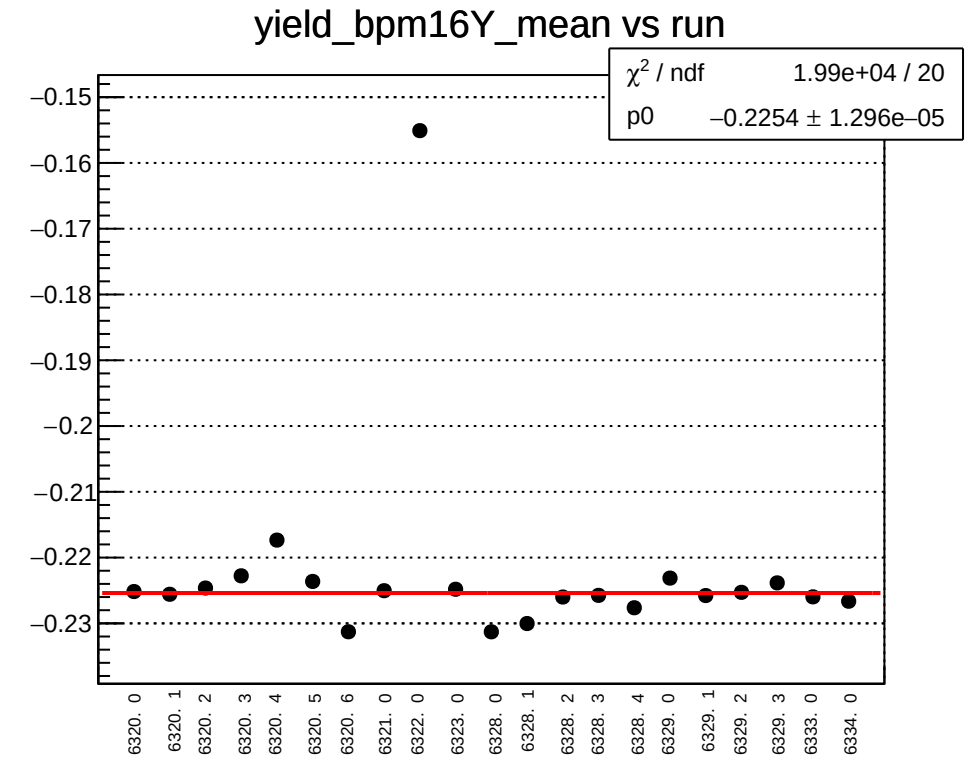

pull
Entries 21
Mean −12.89
Std Dev 21.74
600
500
400
300
200
100
0
−100
−200
−300

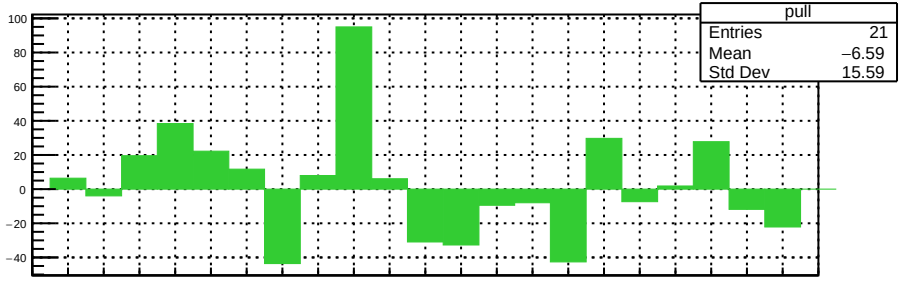

pull1D
Entries 21
Mean 2.699
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

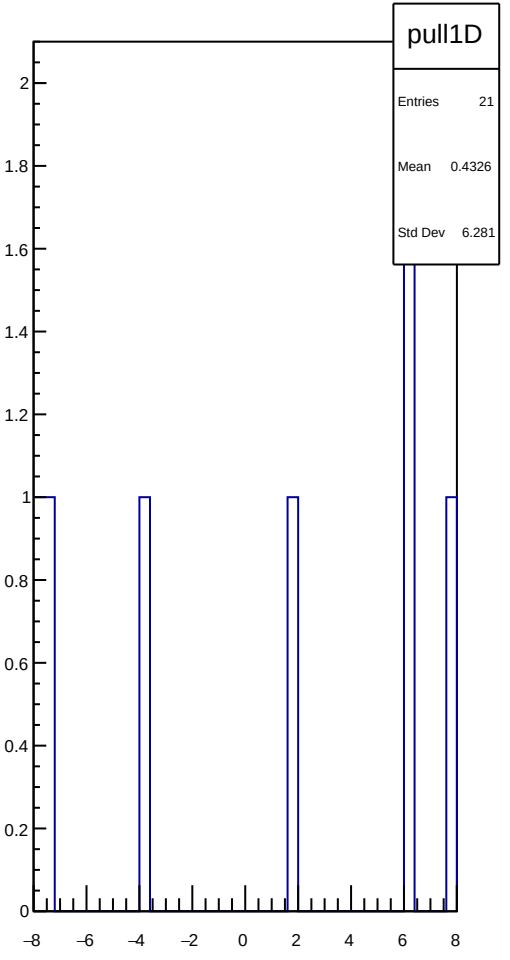

yield_bpm12Y_rms vs run
χ² / ndf 6.096e+04 / 20
p0 0.01124 ± 1.967e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

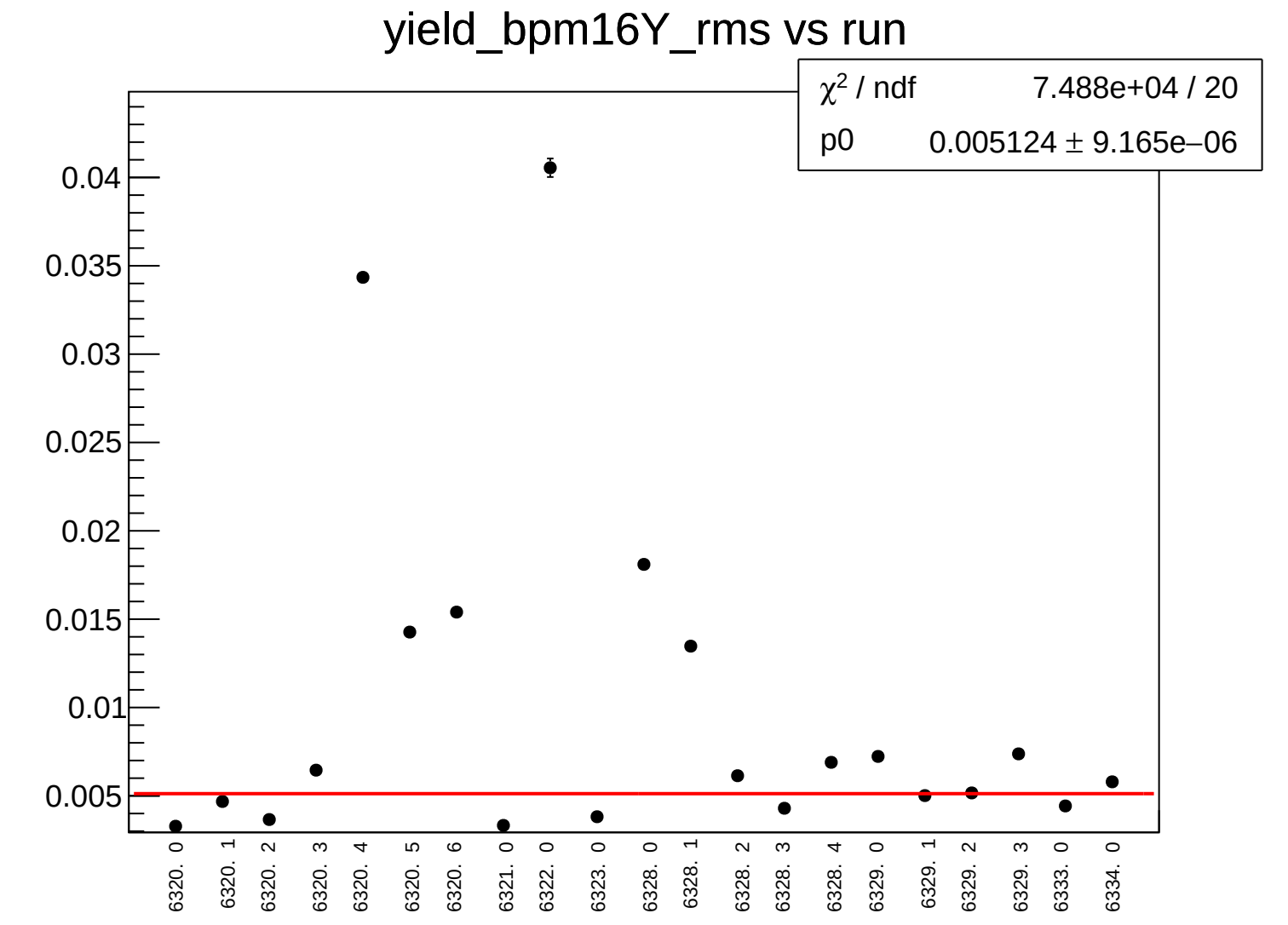

yield_bpm16X_mean vs run
χ² / ndf 1.686e+04 / 20
p0 −0.4324 ± 3.039e−05
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.02
Std Dev 12
80
60
40
20
0
−20
−40
pull1D
Entries 21
Mean 1.586
Std Dev 4.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

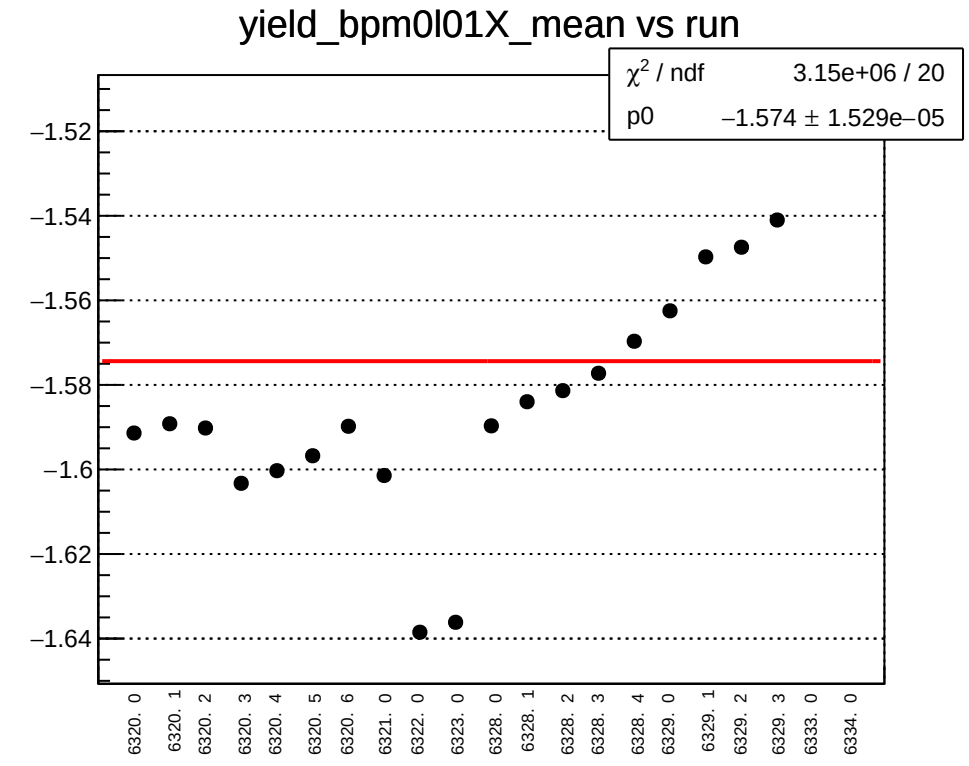

yield_bpm16X_rms vs run
χ² / ndf 8.51e+04 / 20
p0 0.01182 ± 2.149e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

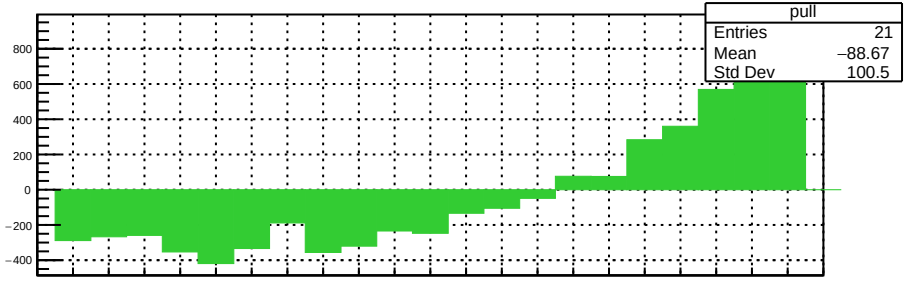

yield_bpm16Y_mean vs run
χ² / ndf 1.99e+04 / 20
p0 −0.2254 ± 1.296e−05
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

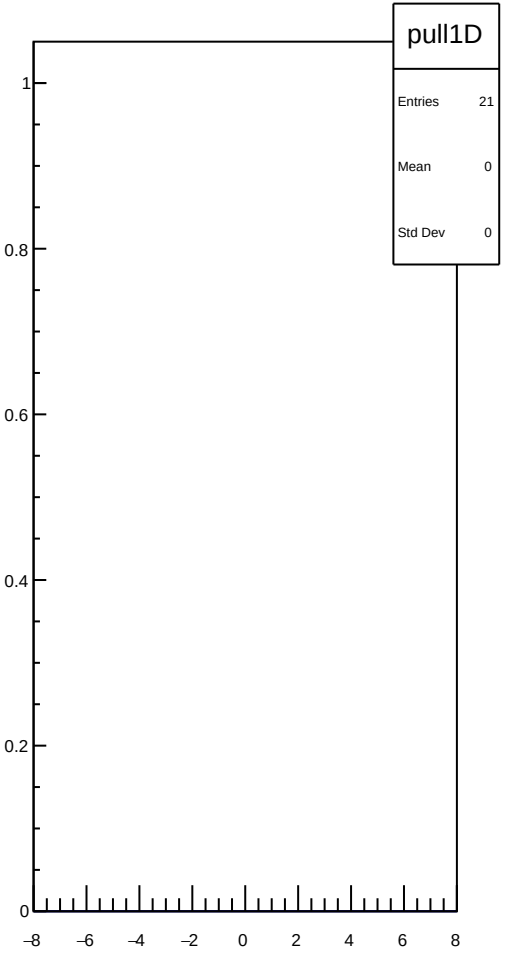

pull
Entries 21
Mean −6.59
Std Dev 15.59
100
80
60
40
20
0
−20
−40

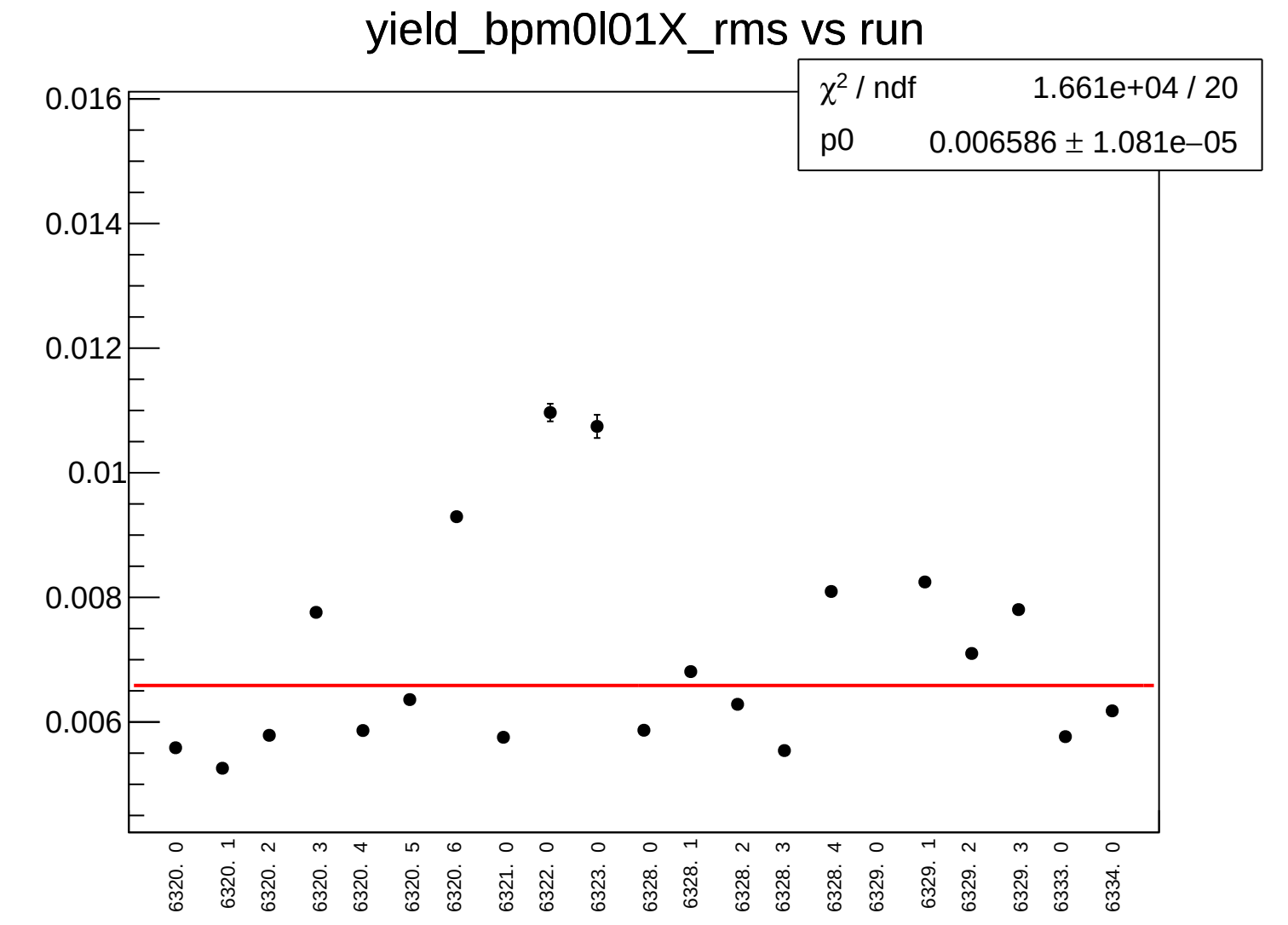

pull1D
Entries 21
Mean 0.4326
Std Dev 6.281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

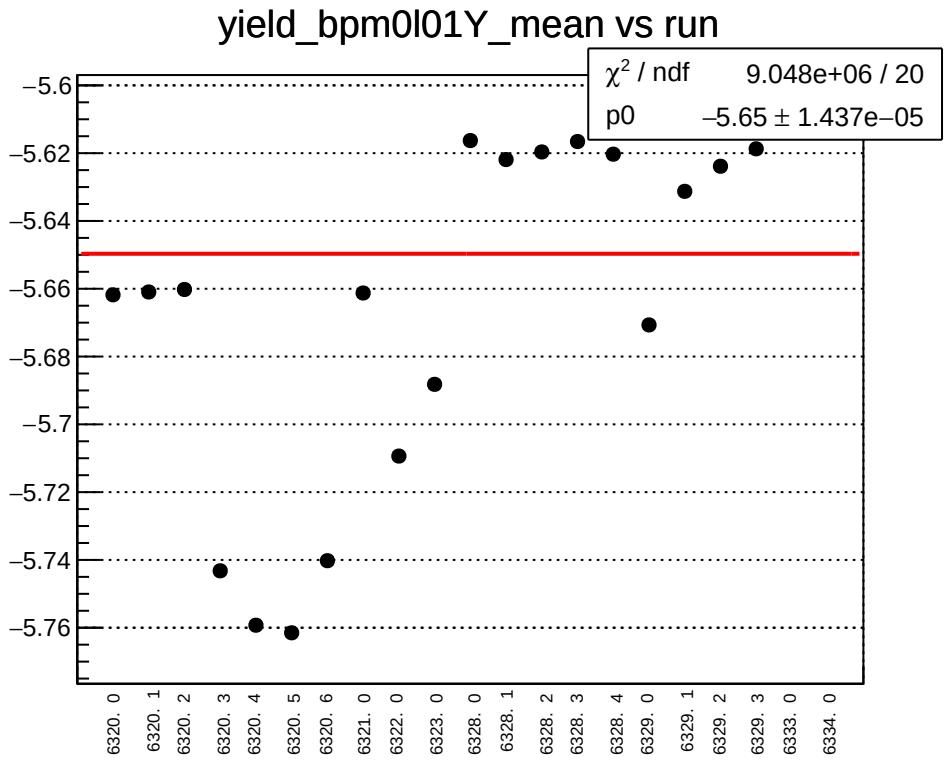

yield_bpm16Y_rms vs run
χ² / ndf 7.488e+04 / 20
p0 0.005124 ± 9.165e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

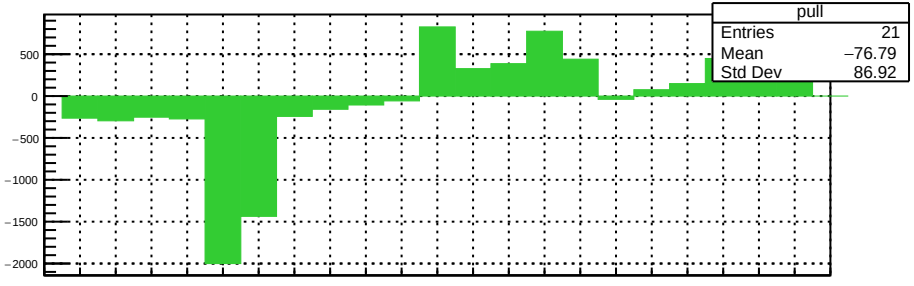

yield_bpm0l01X_mean vs run
χ² / ndf 3.15e+06 / 20
p0 −1.574 ± 1.529e−05
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
−1.64
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

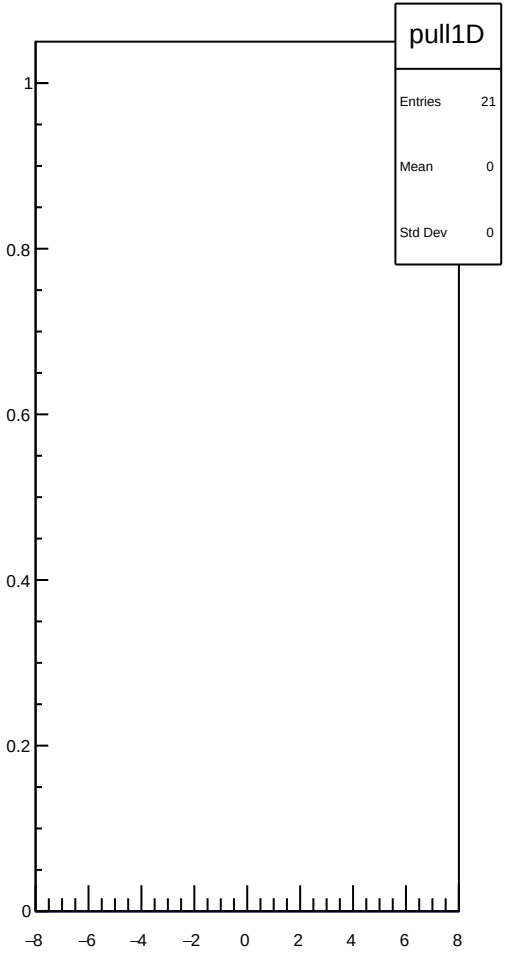

pull
Entries 21
Mean −88.67
Std Dev 100.5
800
600
400
200
0
−200
−400

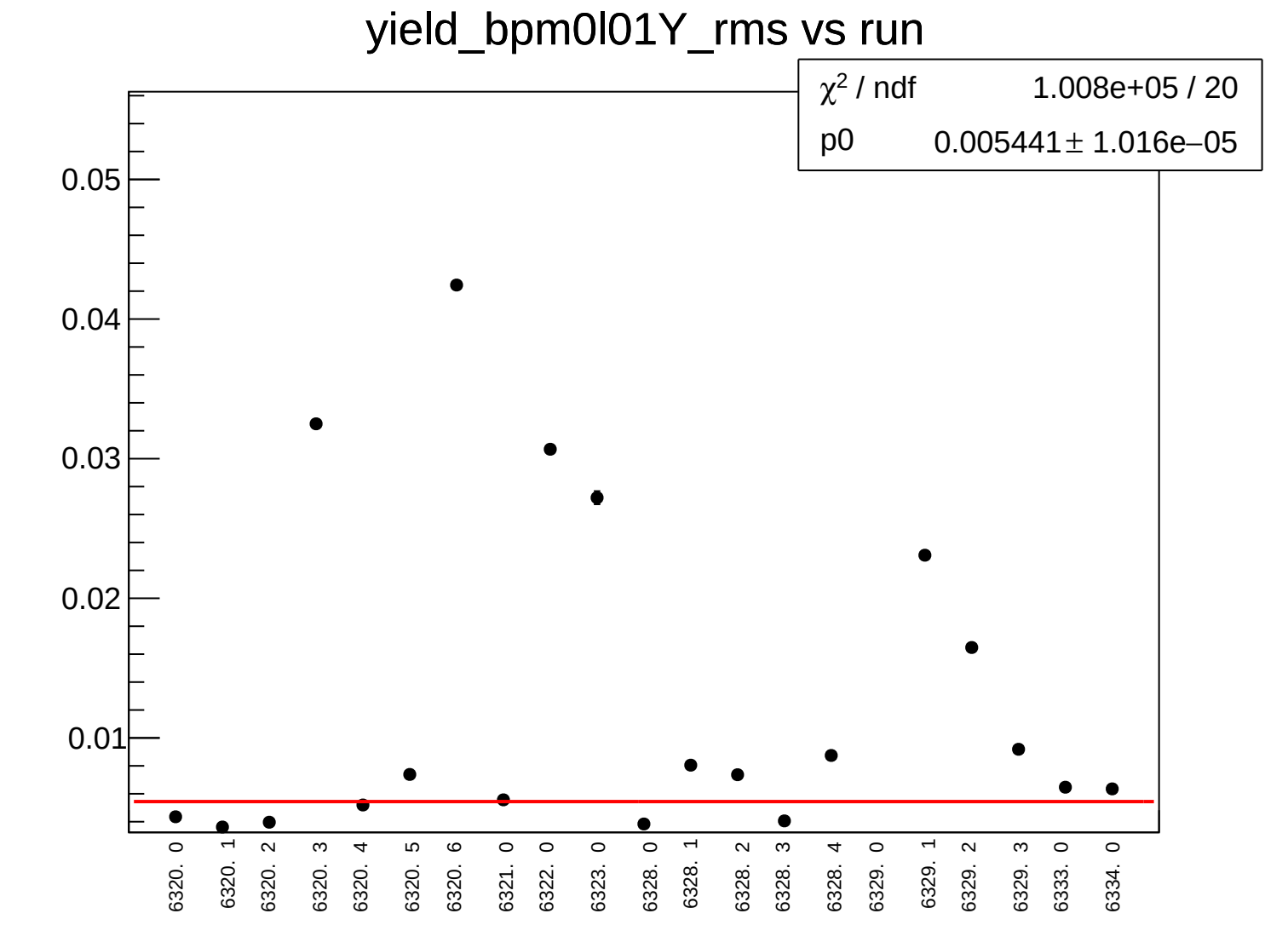

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

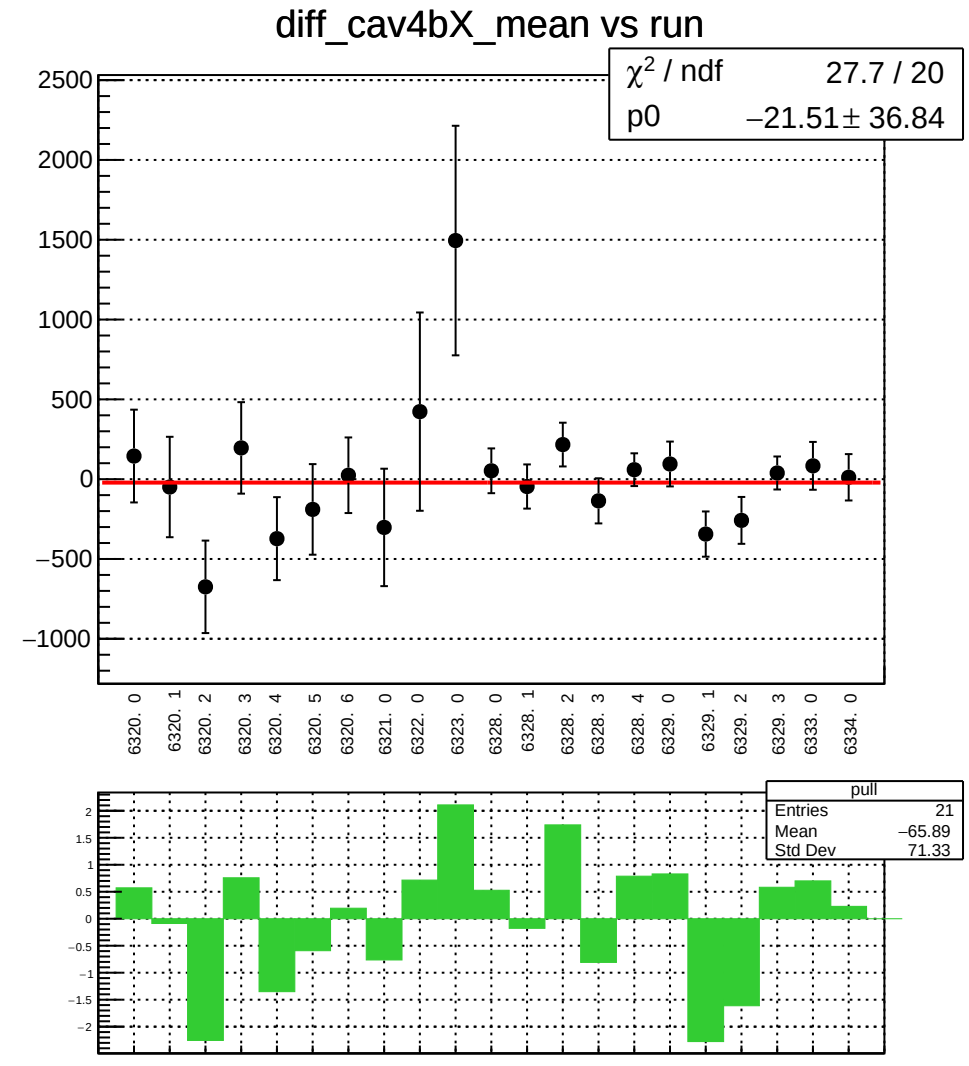

yield_bpm0l01X_rms vs run
χ² / ndf 1.661e+04 / 20
p0 0.006586 ± 1.081e−05
0.016
0.014
0.012
0.01
0.008
0.006
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

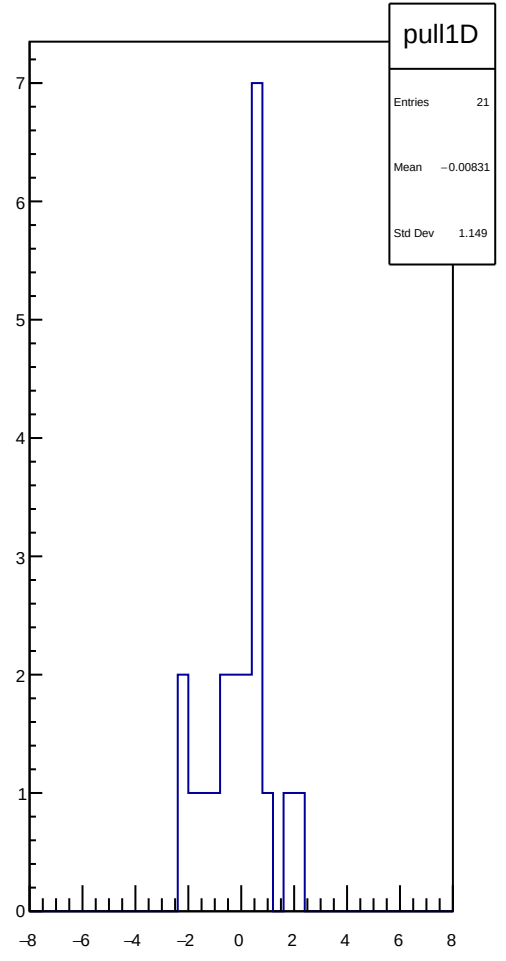

yield_bpm0l01Y_mean vs run
χ² / ndf 9.048e+06 / 20
p0 −5.65 ± 1.437e−05
−5.6
−5.62
−5.64
−5.66
−5.68
−5.7
−5.72
−5.74
−5.76
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

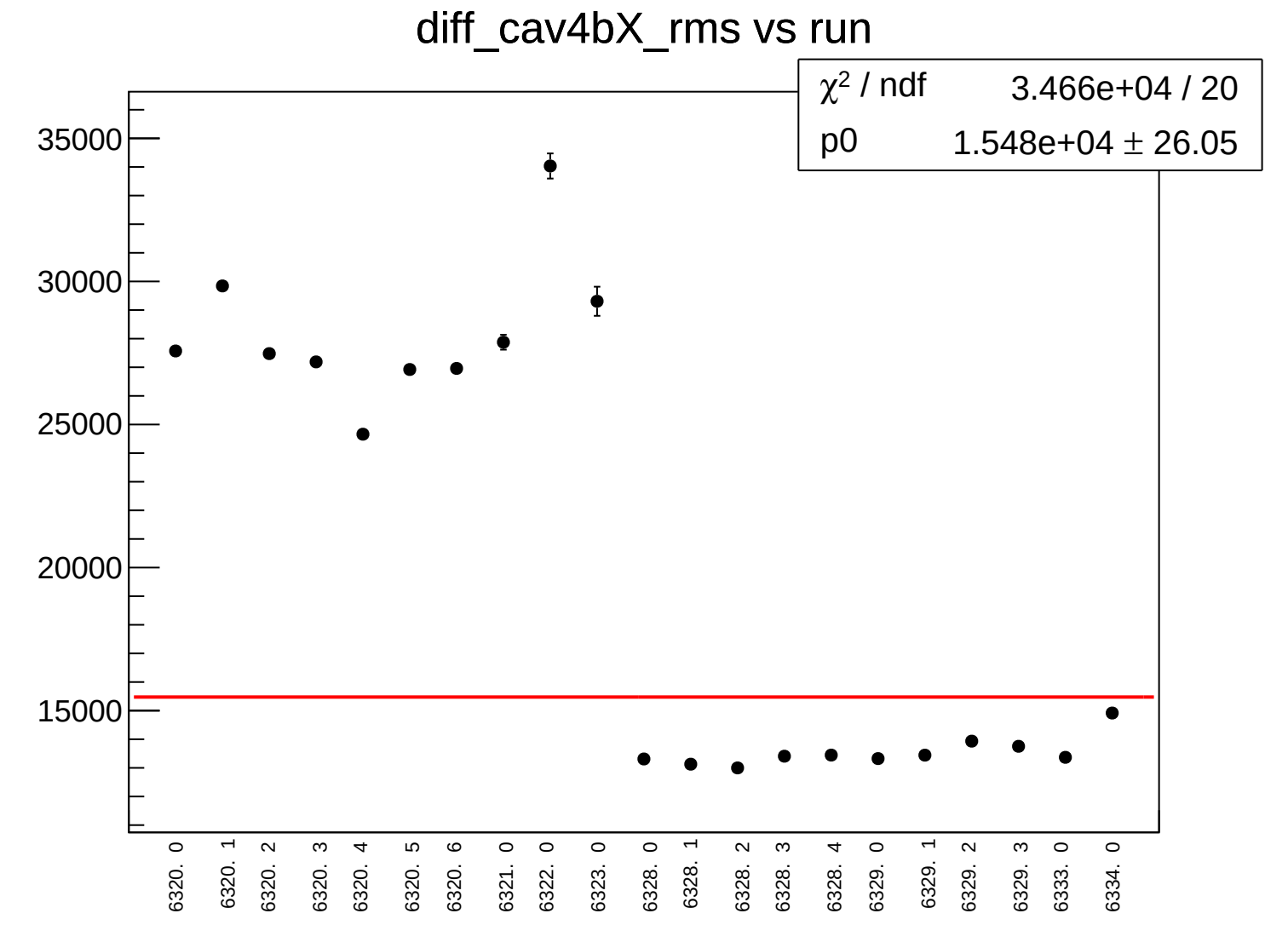

pull
Entries 21
Mean −76.79
Std Dev 86.92
500
0
−500
−1000
−1500
−2000

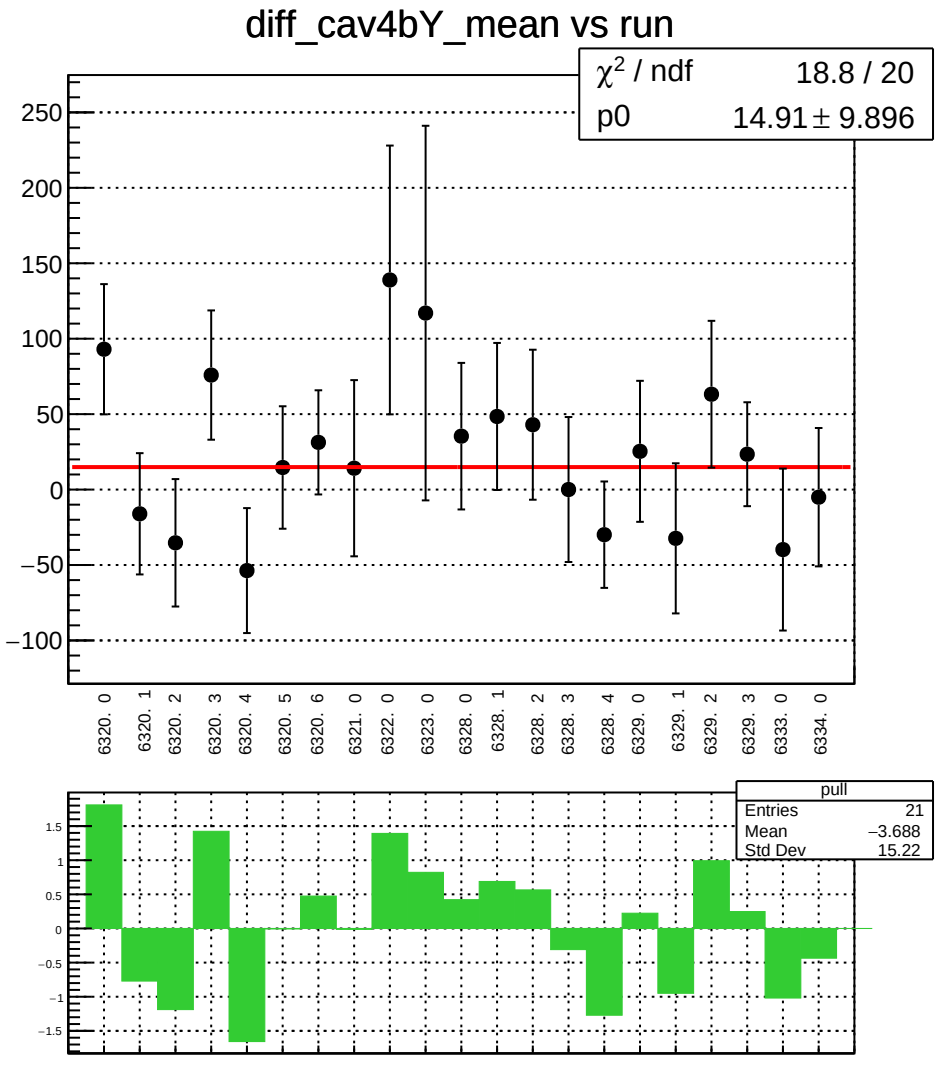

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

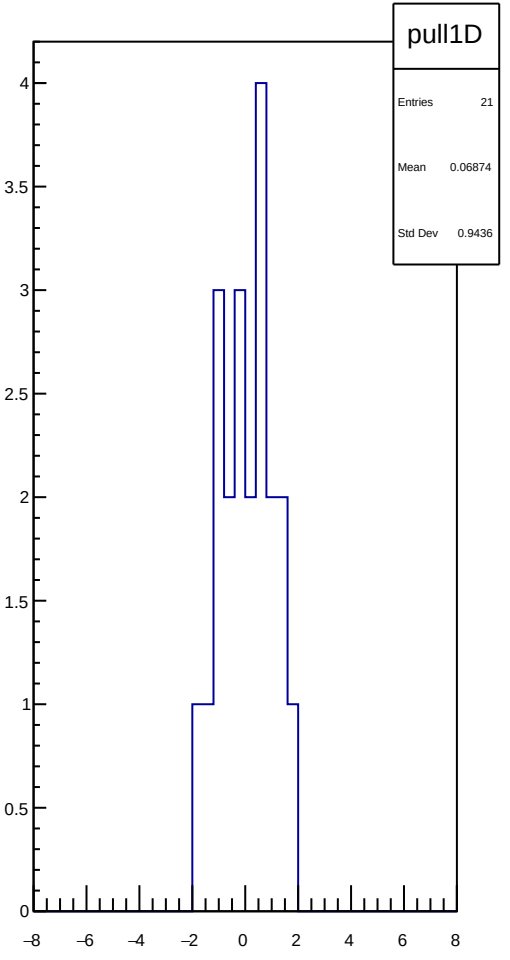

yield_bpm0l01Y_rms vs run
χ² / ndf 1.008e+05 / 20
p0 0.005441 ± 1.016e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

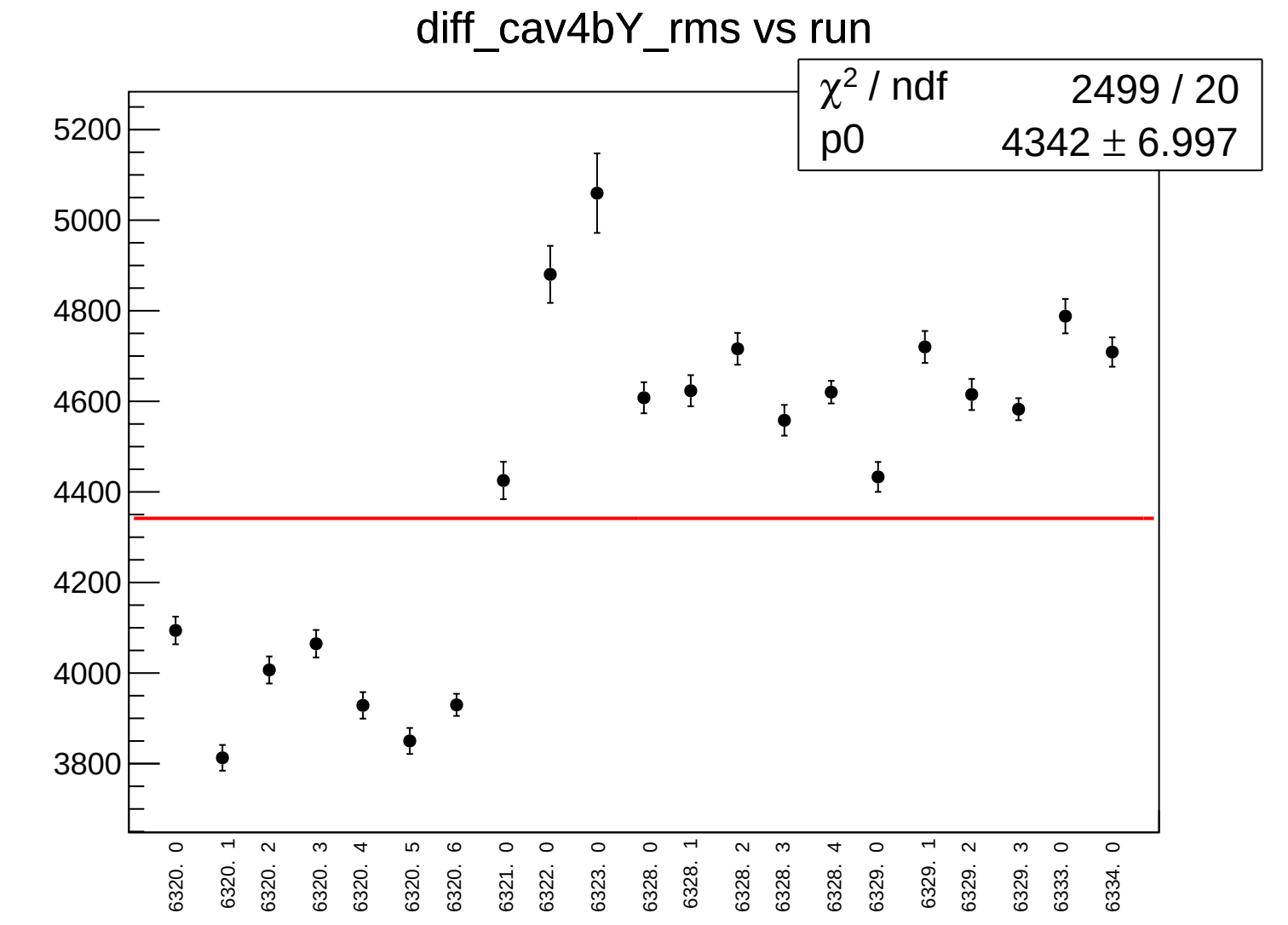

diff_cav4bX_mean vs run
χ² / ndf 27.7 / 20
p0 −21.51 ± 36.84
2500
2000
1500
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −65.89
Std Dev 71.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

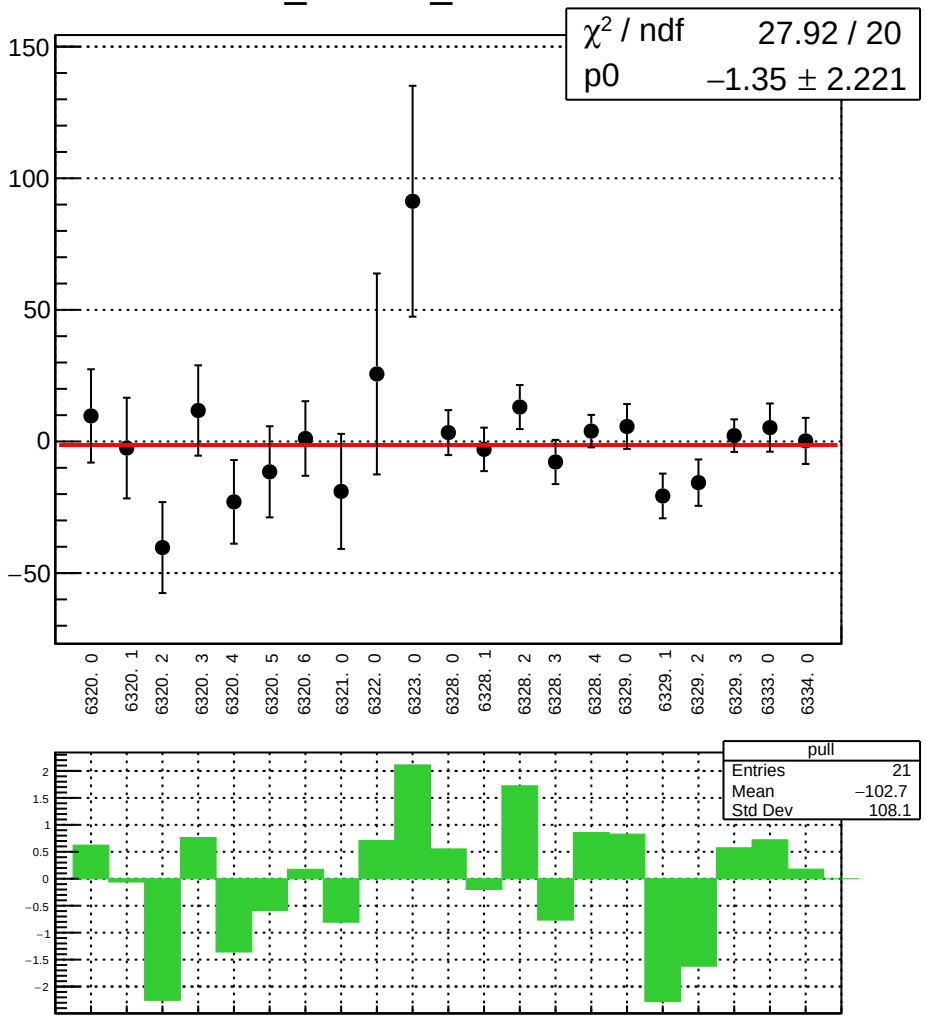

pull1D
Entries 21
Mean −0.00831
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

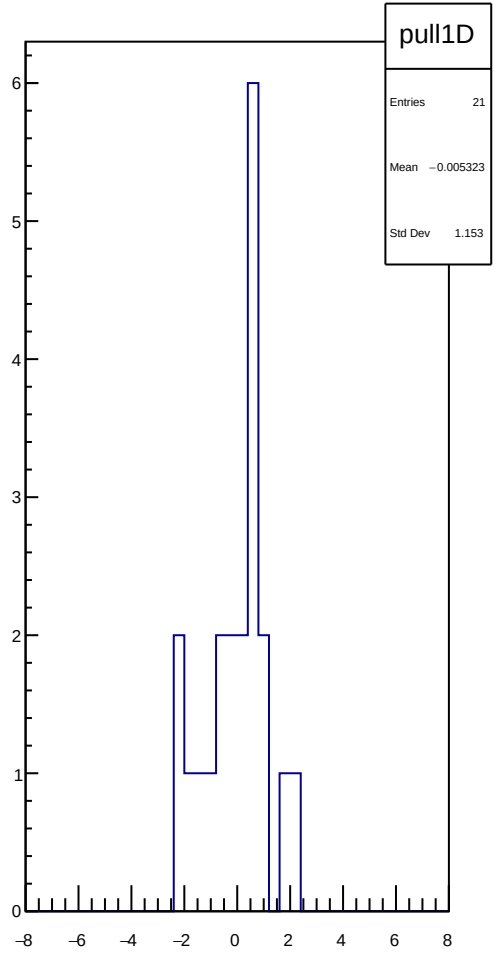

diff_cav4bX_rms vs run
χ² / ndf 3.466e+04 / 20
p0 1.548e+04 ± 26.05
35000
30000
25000
20000
15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

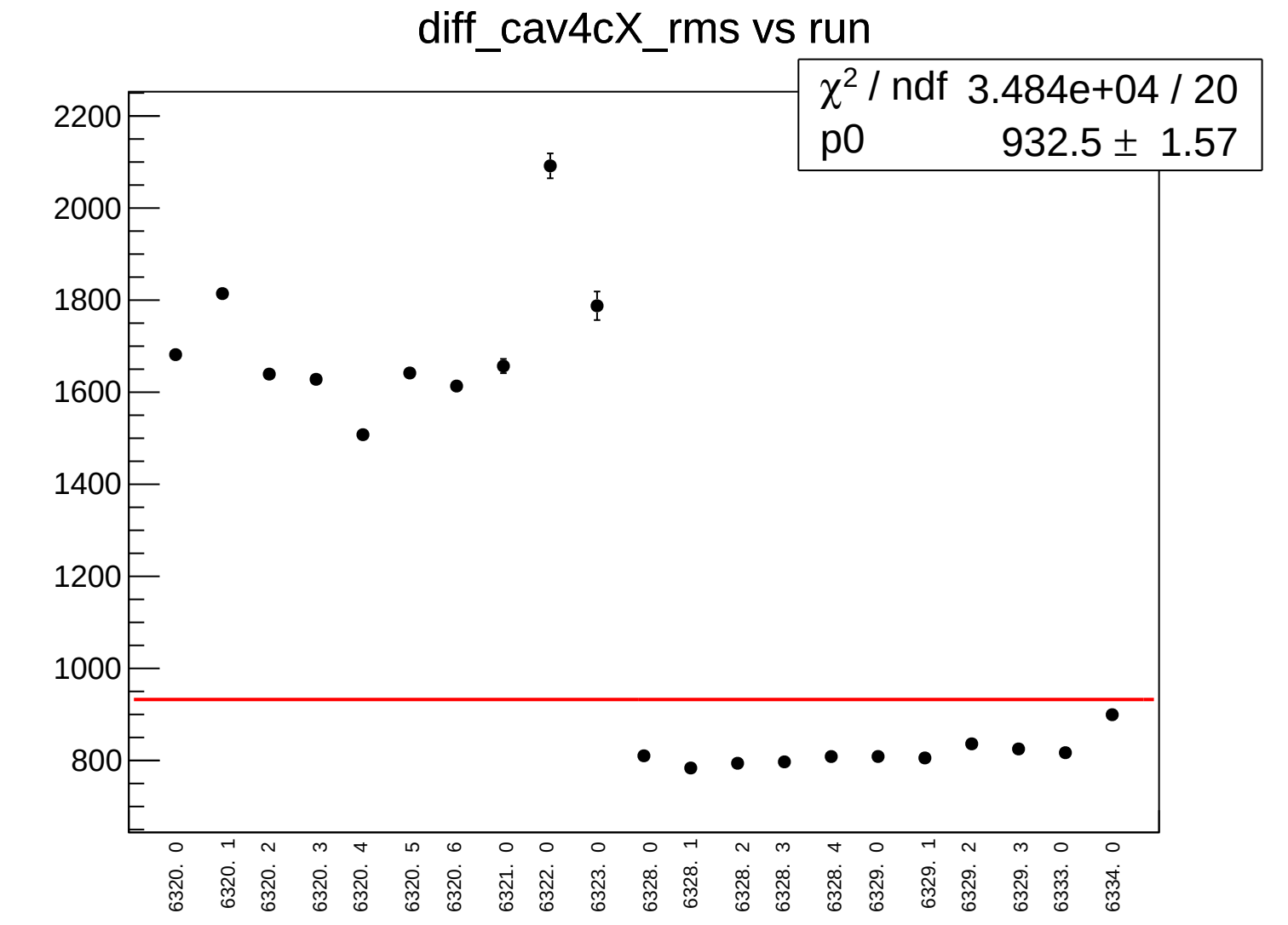

diff_cav4bY_mean vs run
χ² / ndf 18.8 / 20
p0 14.91 ± 9.896
250
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.688
Std Dev 15.22
1.5
1
0.5
0
−0.5
−1
−1.5

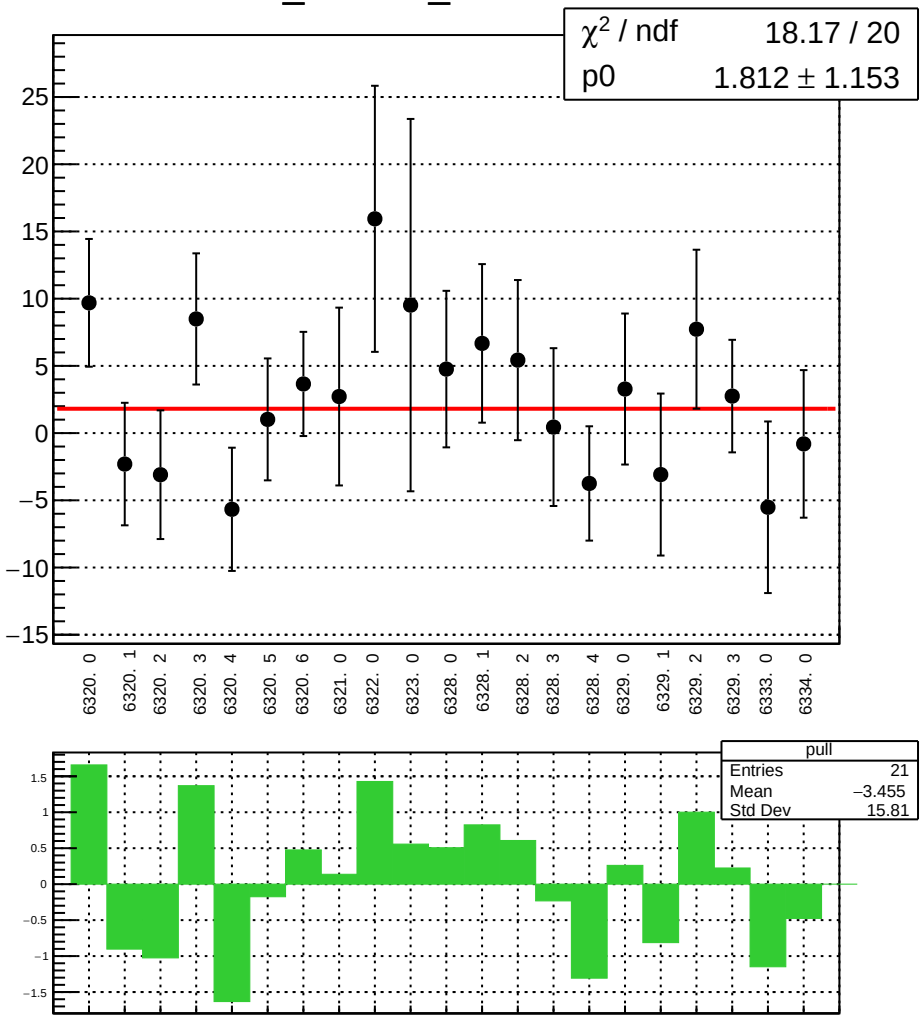

pull1D
Entries 21
Mean 0.06874
Std Dev 0.9436
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

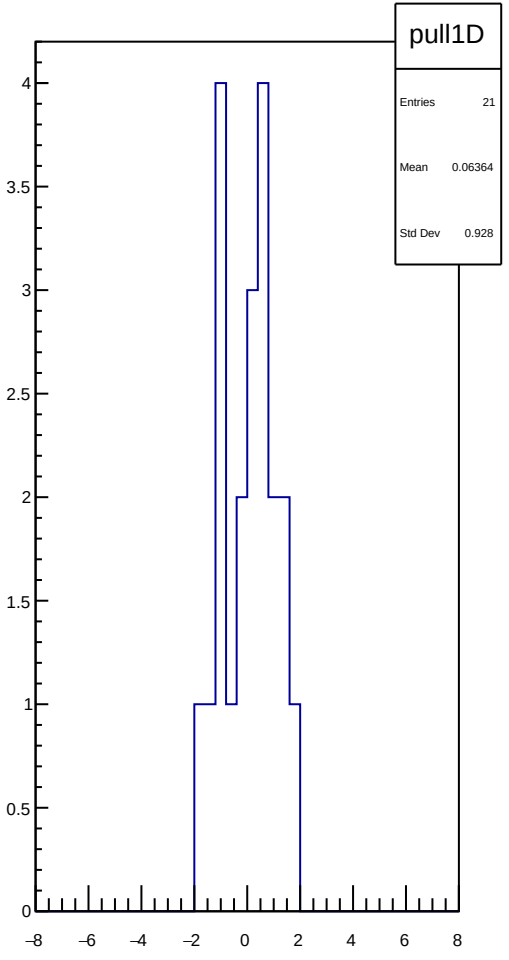

diff_cav4bY_rms vs run
χ² / ndf 2499 / 20
p0 4342 ± 6.997
5200
5000
4800
4600
4400
4200
4000
3800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

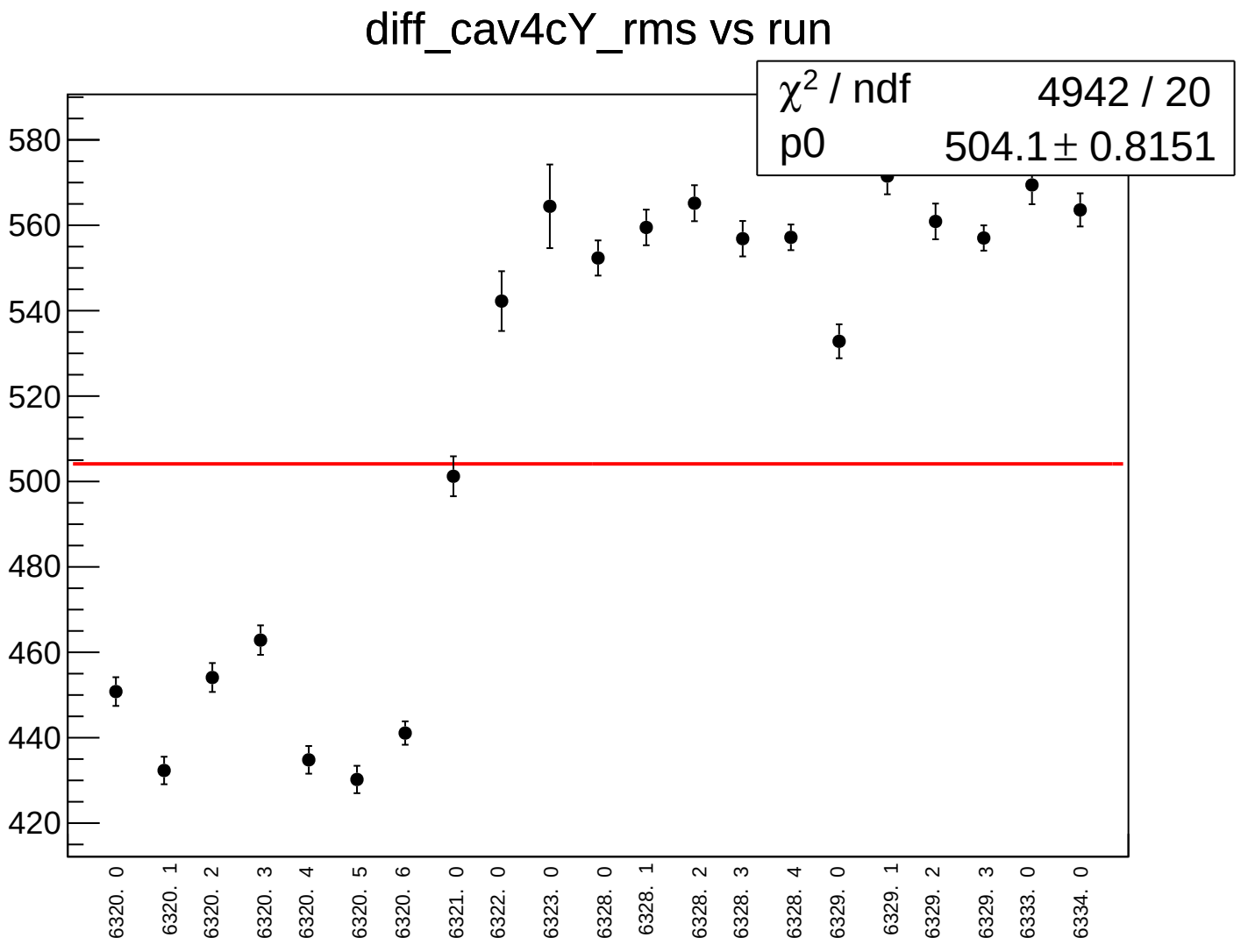

diff_cav4cX_mean vs run
χ² / ndf 27.92 / 20
p0 −1.35 ± 2.221
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −102.7
Std Dev 108.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

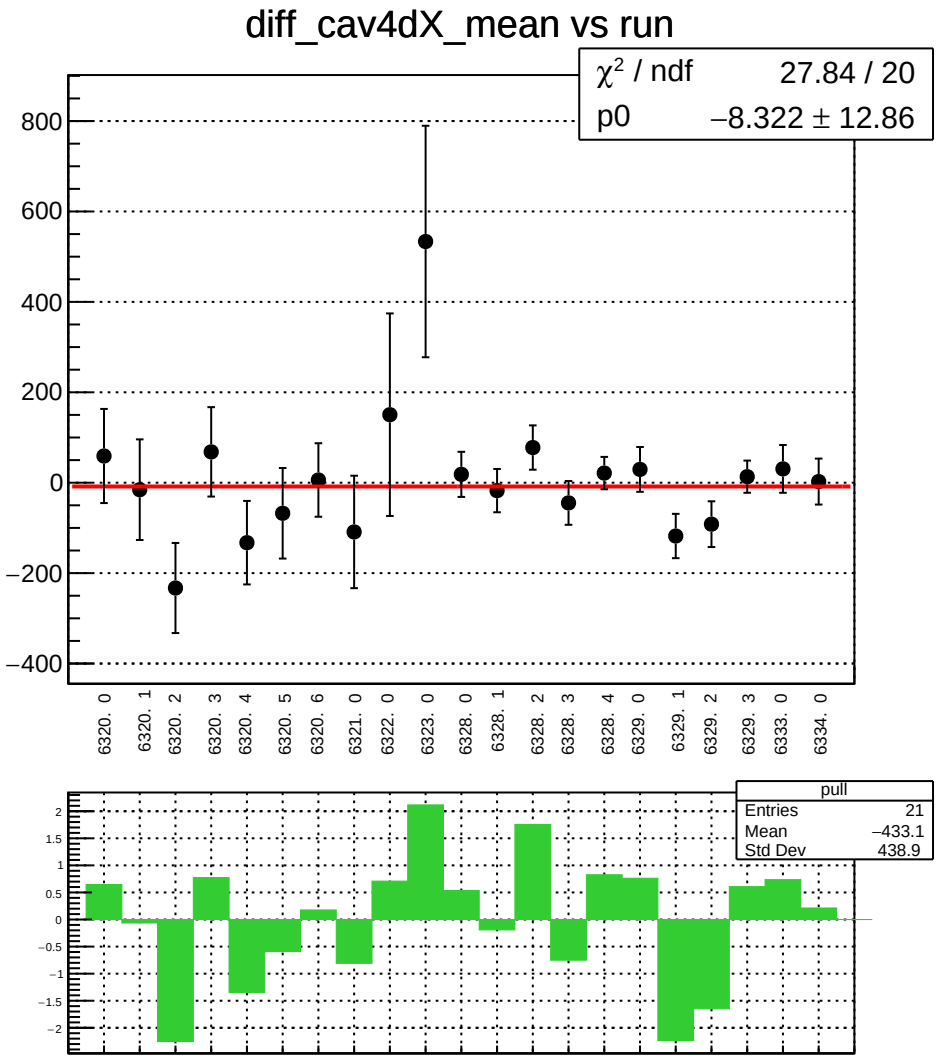

pull1D
Entries 21
Mean −0.005323
Std Dev 1.153
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

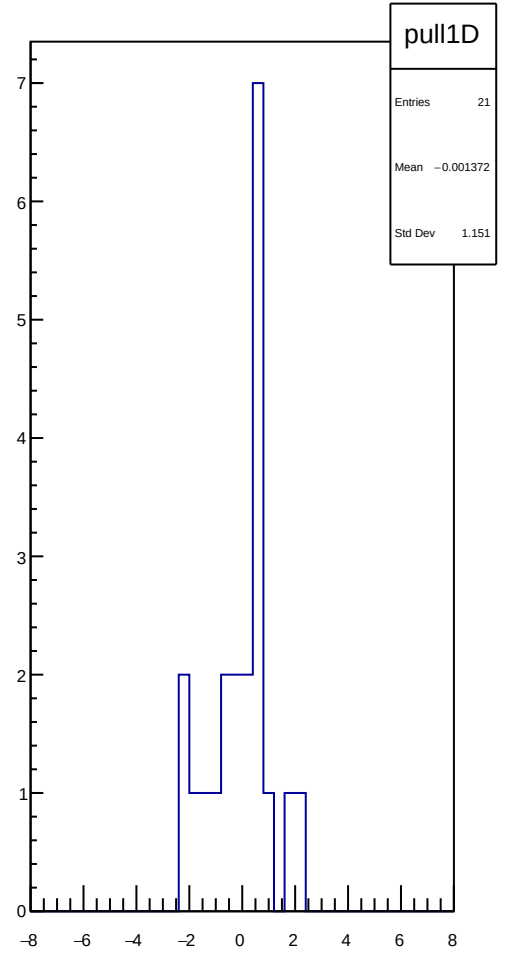

diff_cav4cX_rms vs run
χ² / ndf 3.484e+04 / 20
p0 932.5 ± 1.57
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

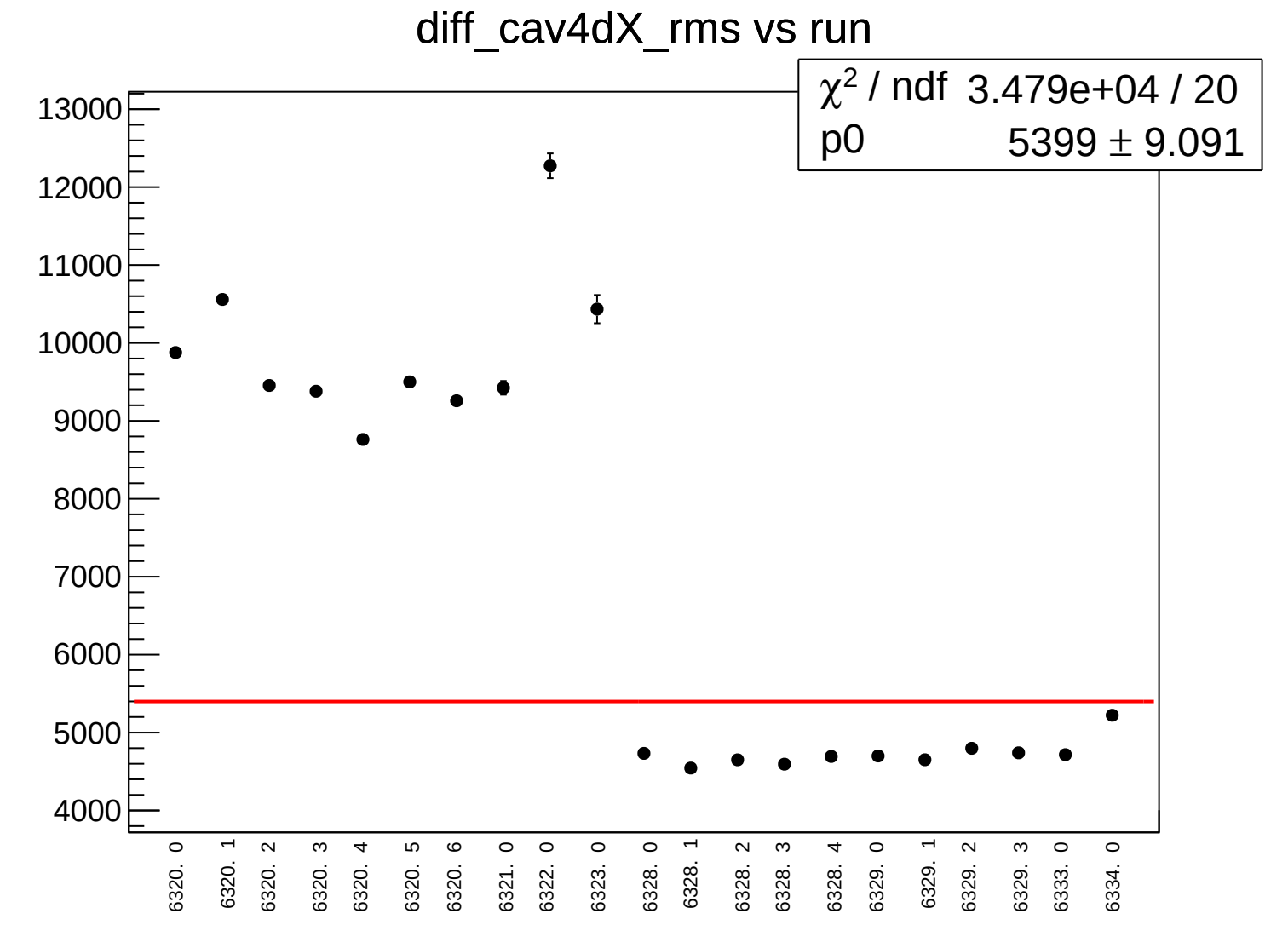

diff_cav4cY_mean vs run
χ² / ndf 18.17 / 20
p0 1.812 ± 1.153
25
20
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.455
Std Dev 15.81
1.5
1
0.5
0
−0.5
−1
−1.5

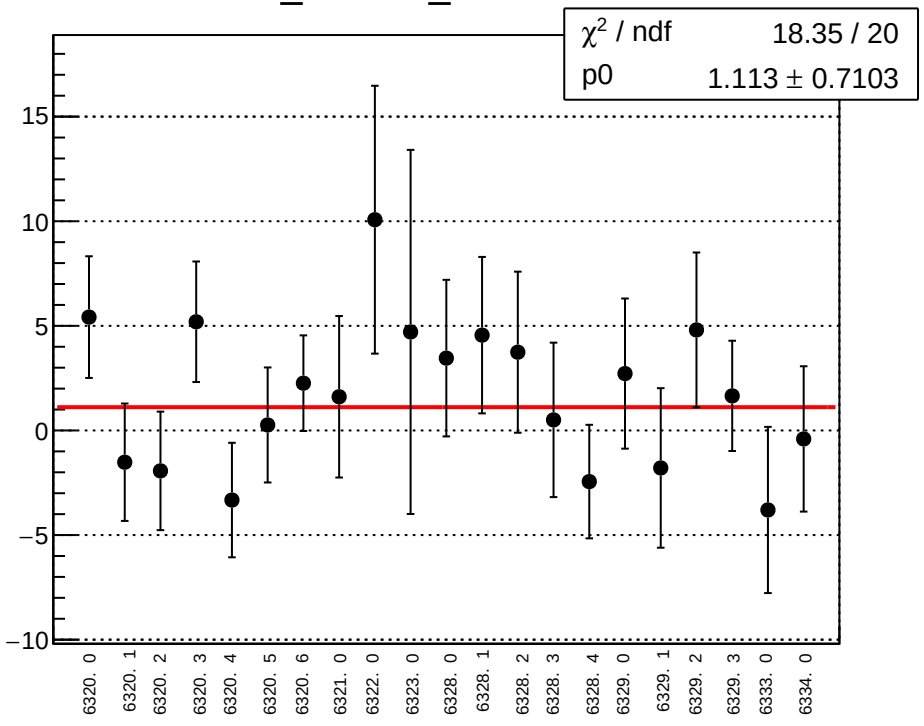

pull1D
Entries 21
Mean 0.06364
Std Dev 0.928
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

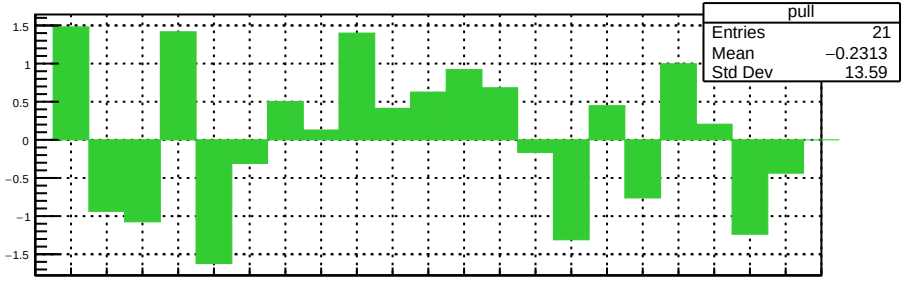

diff_cav4cY_rms vs run
χ² / ndf 4942 / 20
p0 504.1 ± 0.8151
580
560
540
520
500
480
460
440
420
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

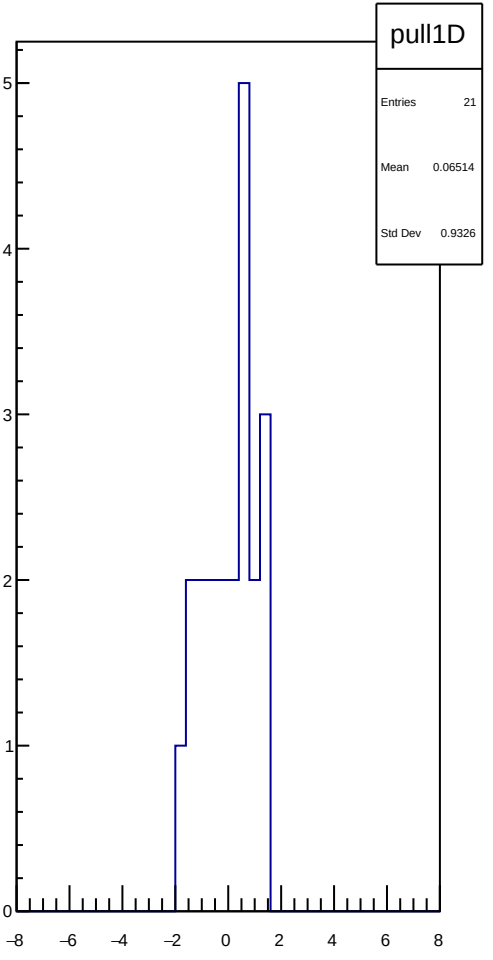

diff_cav4dX_mean vs run
χ² / ndf 27.84 / 20
p0 −8.322 ± 12.86
800
600
400
200
0
−200
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −433.1
Std Dev 438.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

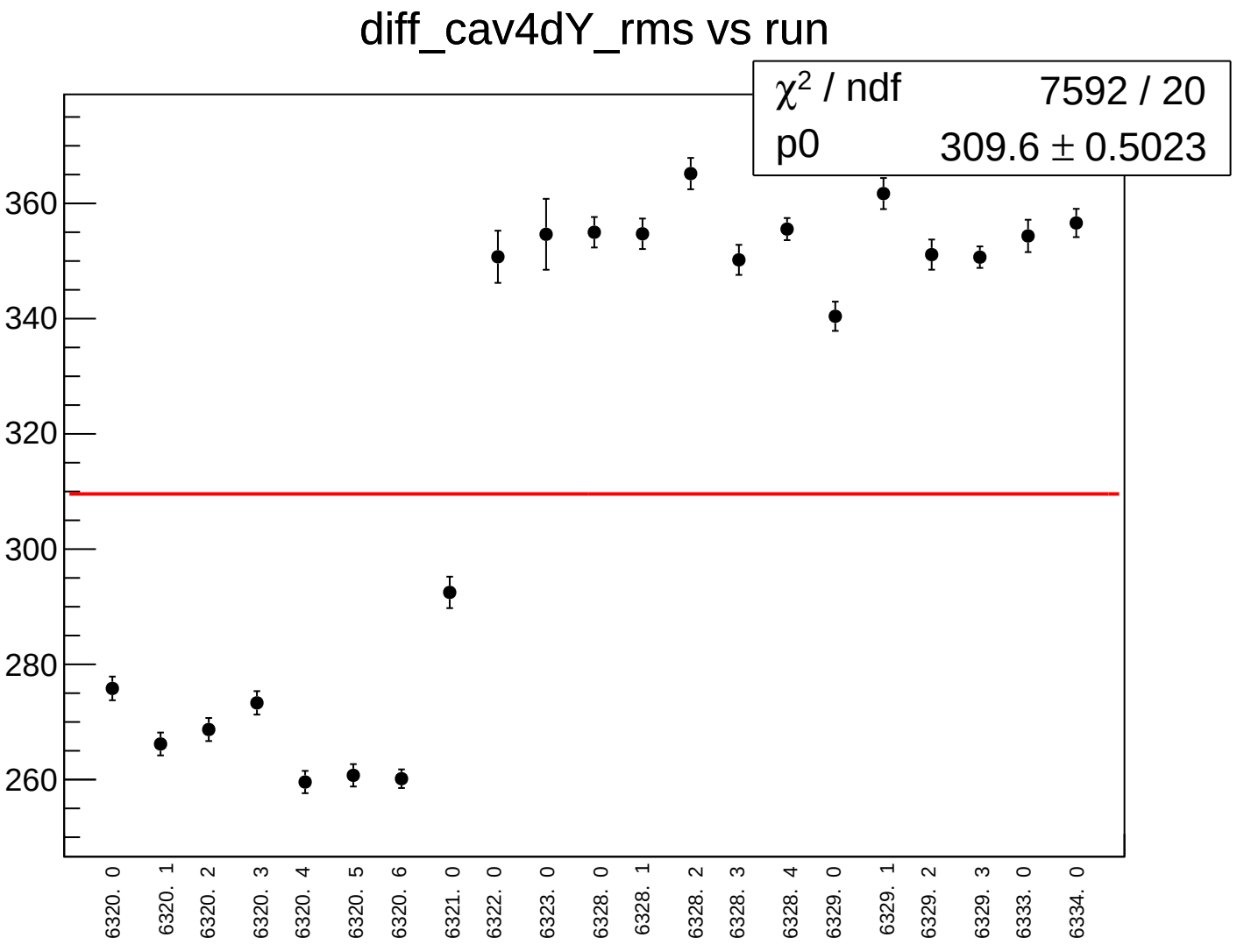

pull1D
Entries 21
Mean −0.001372
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

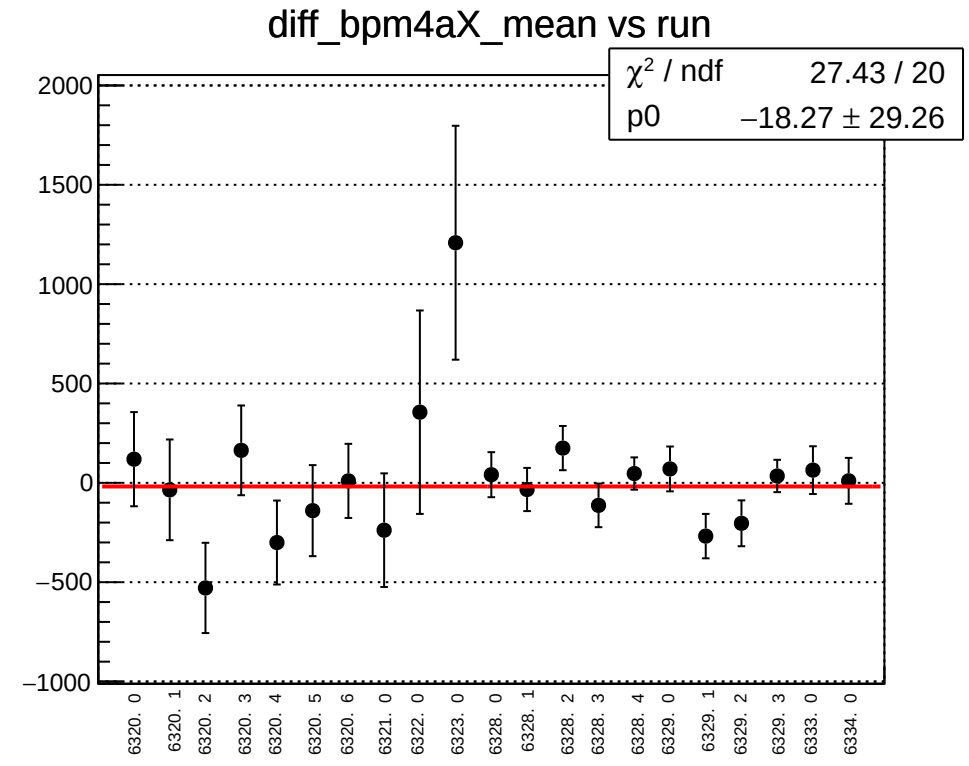

diff_cav4dX_rms vs run
χ² / ndf 3.479e+04 / 20
p0 5399 ± 9.091
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

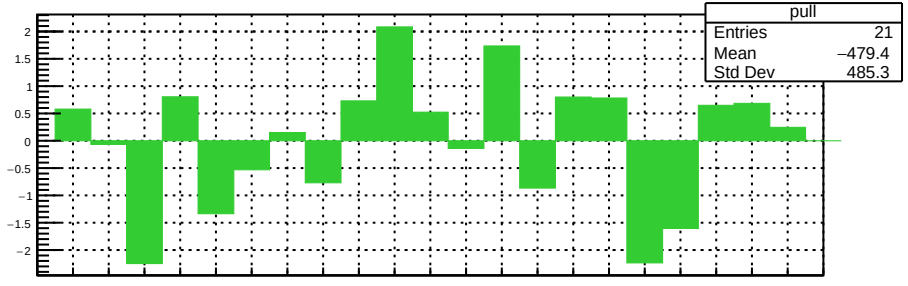

diff_cav4dY_mean vs run
χ² / ndf 18.35 / 20
p0 1.113 ± 0.7103
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

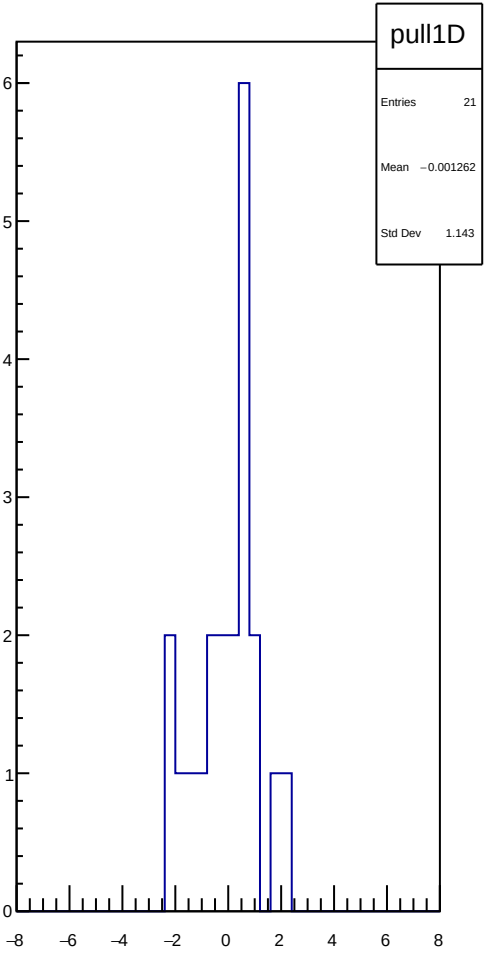

pull
Entries 21
Mean −0.2313
Std Dev 13.59
1.5
1
0.5
0
−0.5
−1
−1.5

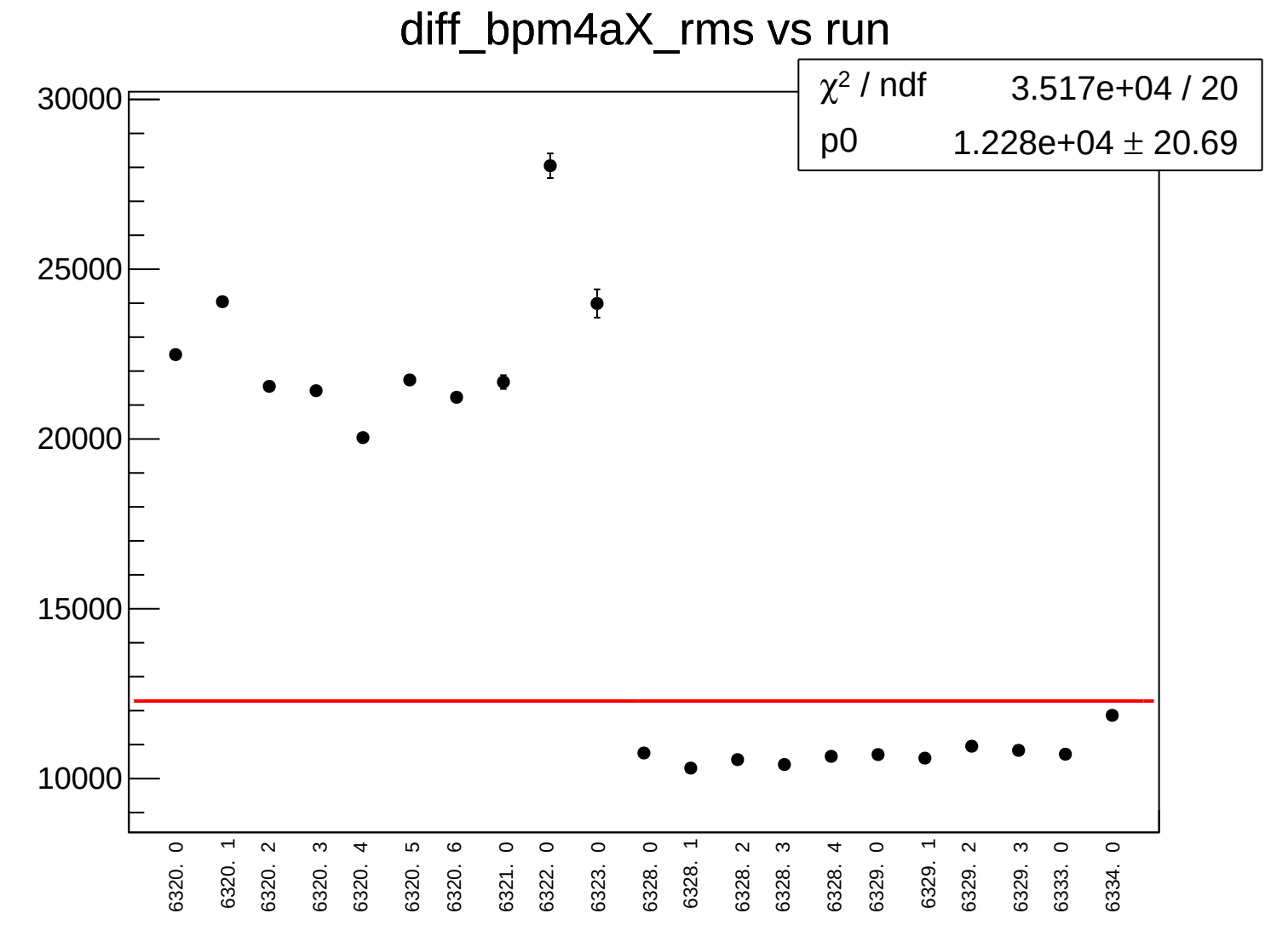

pull1D
Entries 21
Mean 0.06514
Std Dev 0.9326
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

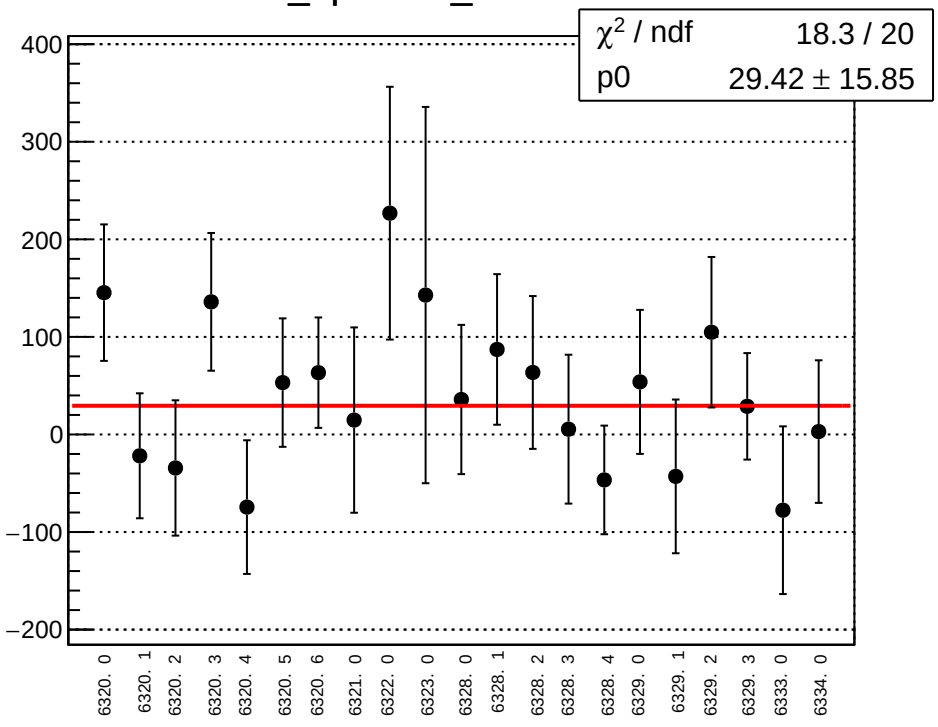

diff_cav4dY_rms vs run
χ² / ndf 7592 / 20
p0 309.6 ± 0.5023
360
340
320
300
280
260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

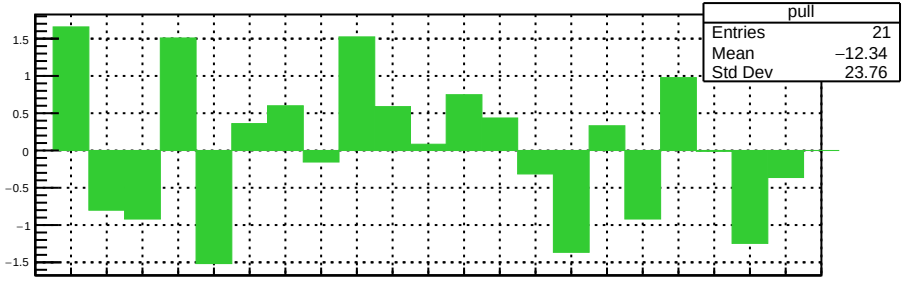

diff_bpm4aX_mean vs run
χ² / ndf 27.43 / 20
p0 −18.27 ± 29.26
2000
1500
1000
500
0
−500
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

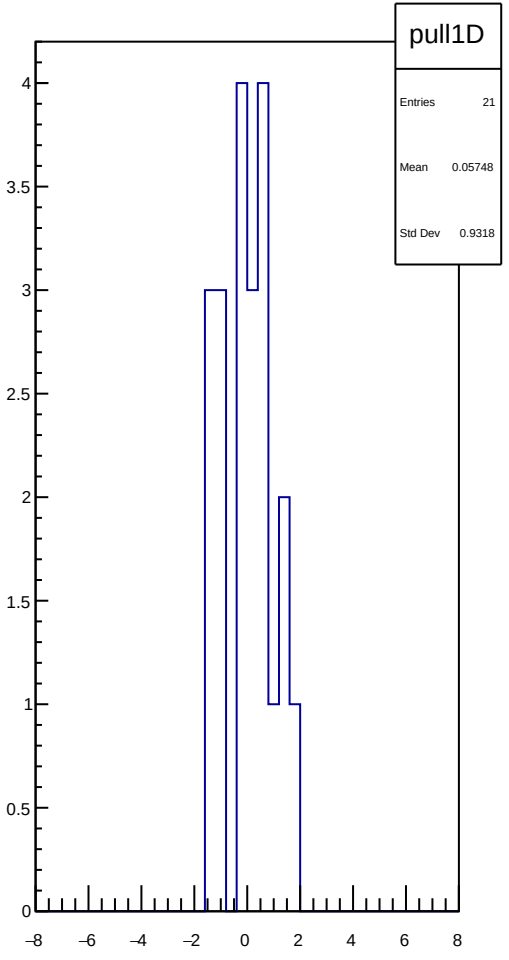

pull
Entries 21
Mean −479.4
Std Dev 485.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

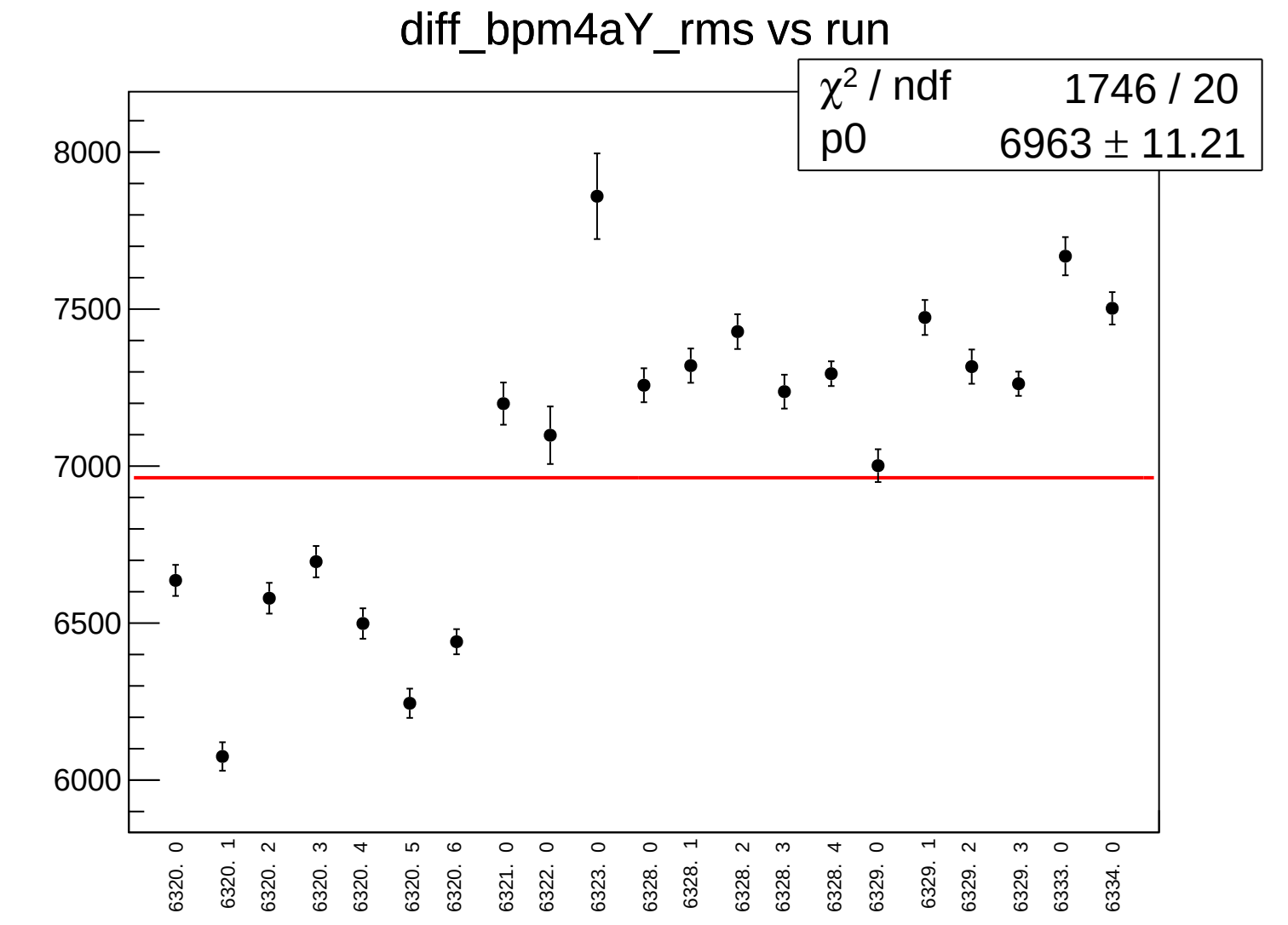

pull1D
Entries 21
Mean −0.001262
Std Dev 1.143
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

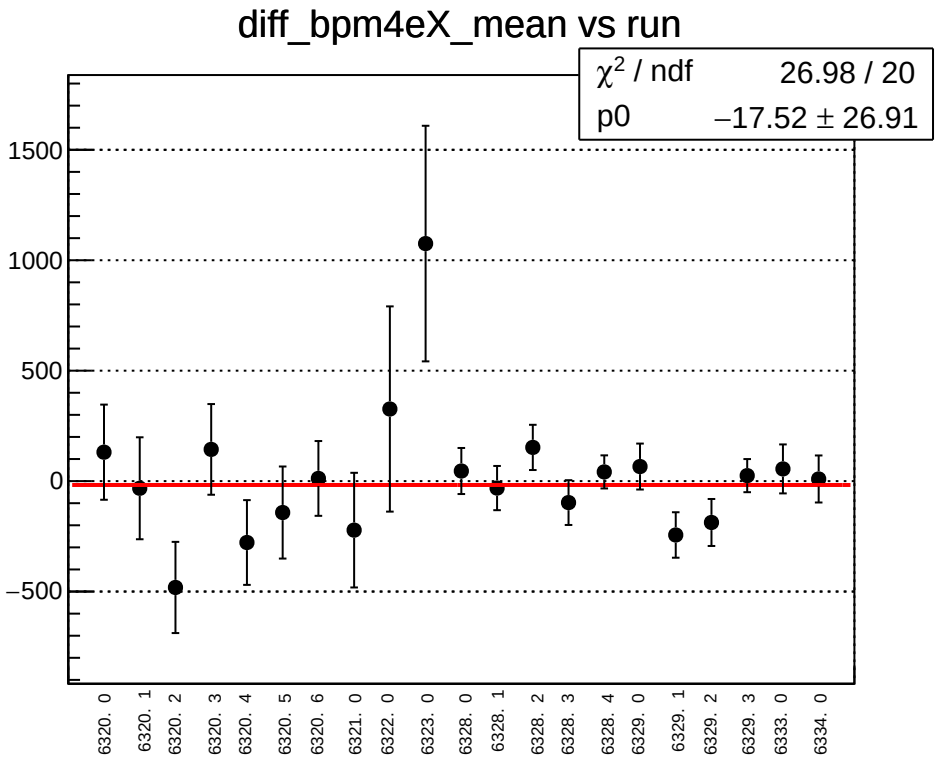

diff_bpm4aX_rms vs run
χ² / ndf 3.517e+04 / 20
p0 1.228e+04 ± 20.69
30000
25000
20000
15000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

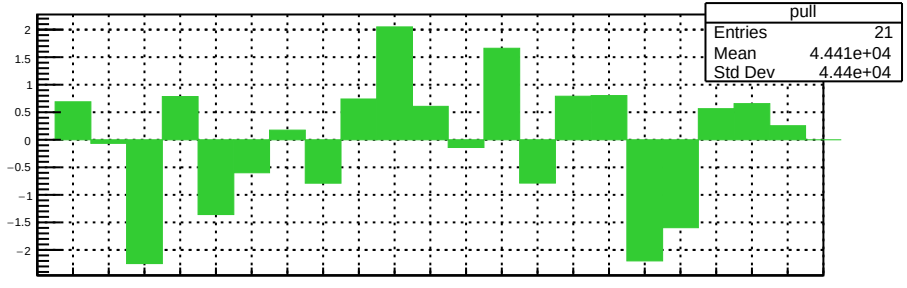

diff_bpm4aY_mean vs run
χ² / ndf 18.3 / 20
p0 29.42 ± 15.85
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

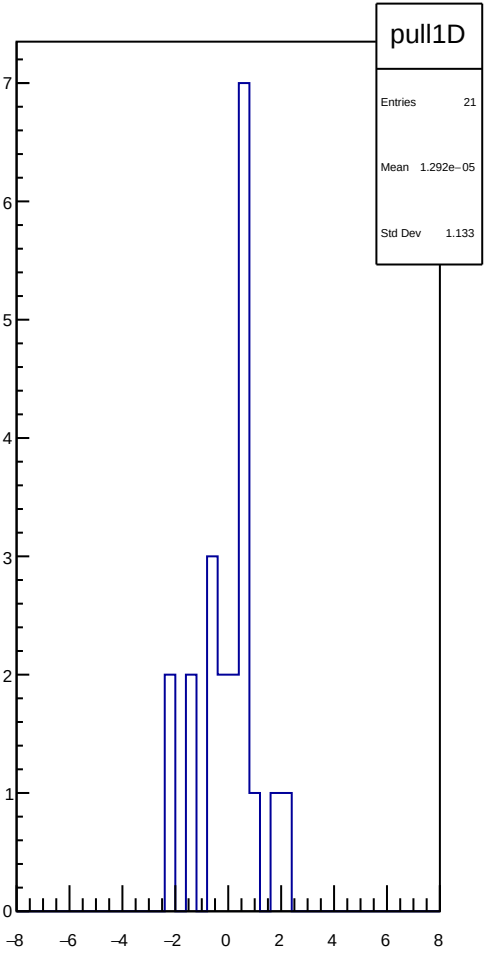

pull
Entries 21
Mean −12.34
Std Dev 23.76
1.5
1
0.5
0
−0.5
−1
−1.5

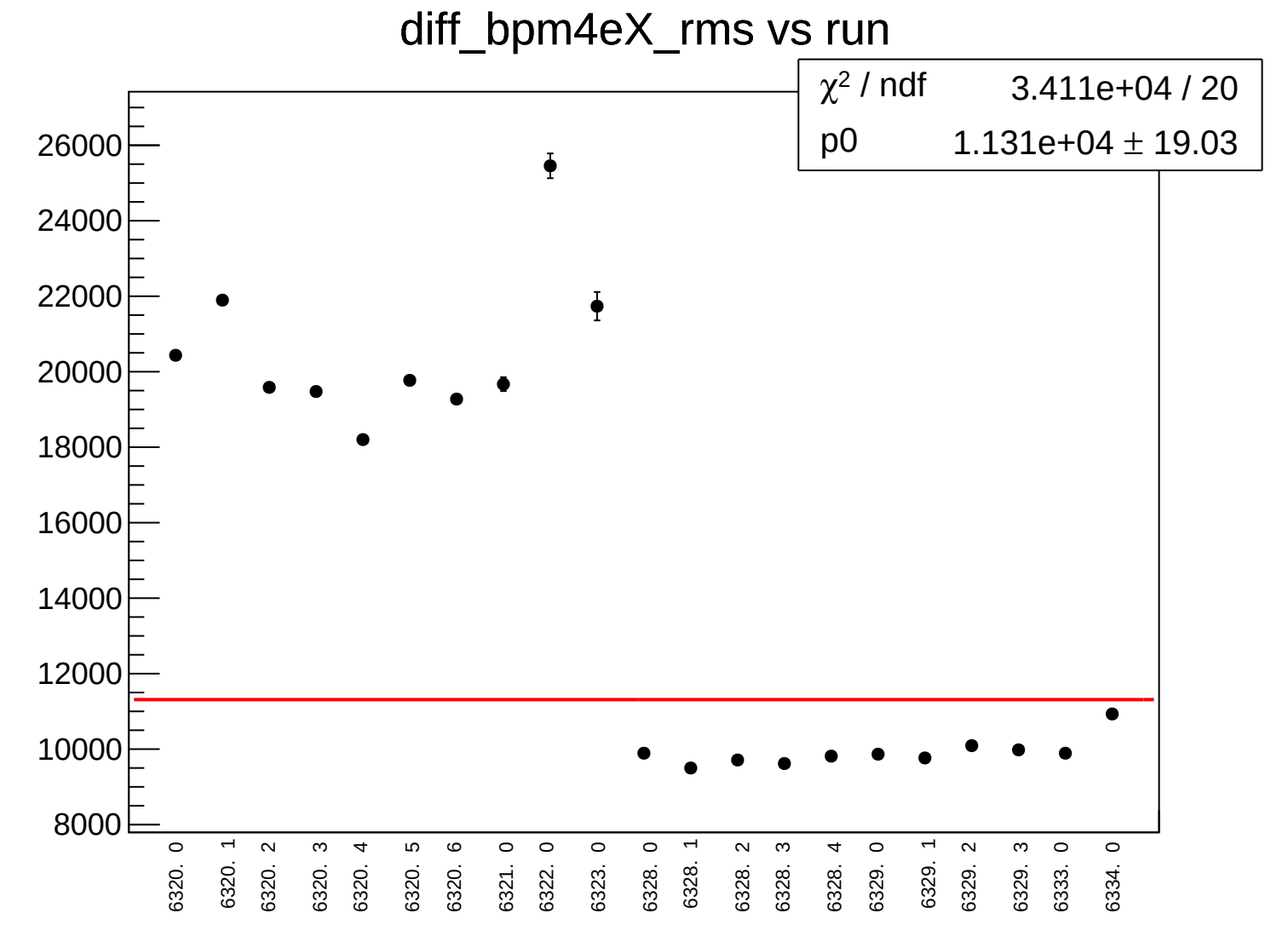

pull1D
Entries 21
Mean 0.05748
Std Dev 0.9318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

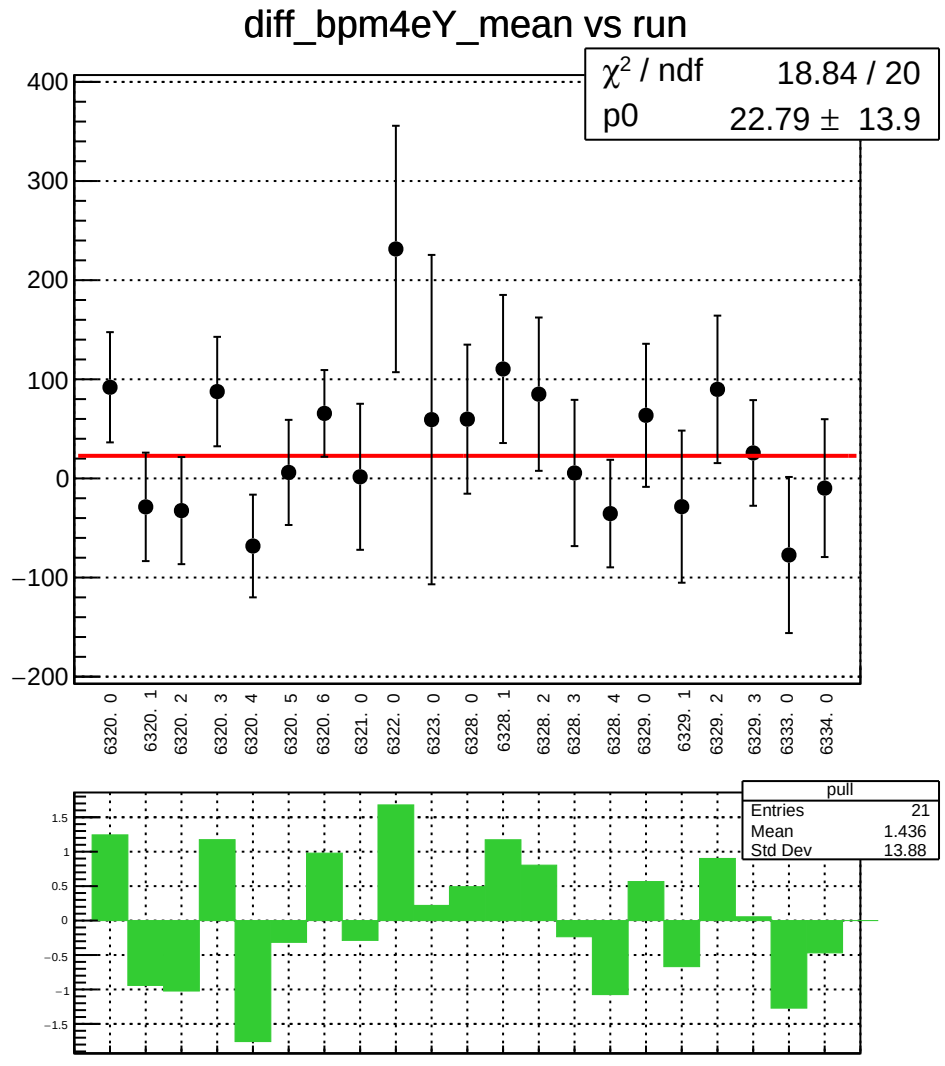

diff_bpm4aY_rms vs run
χ² / ndf 1746 / 20
p0 6963 ± 11.21
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

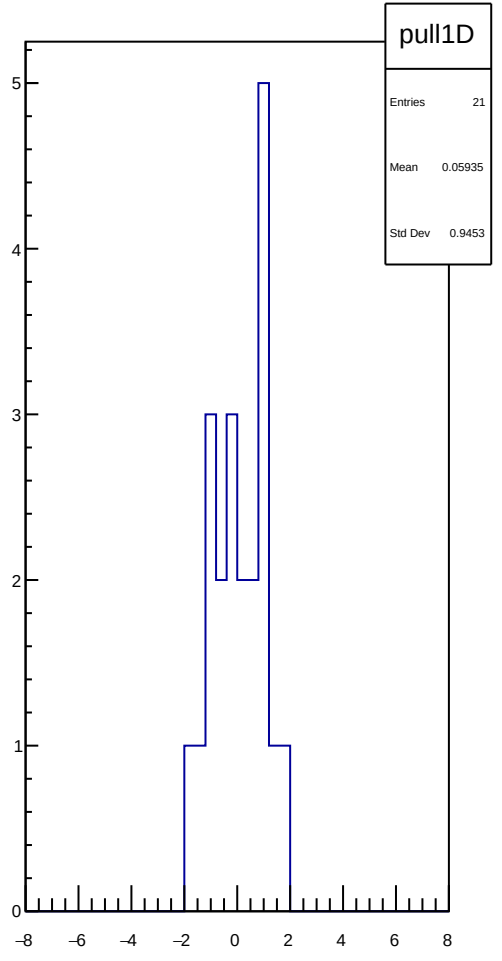

diff_bpm4eX_mean vs run
χ² / ndf 26.98 / 20
p0 −17.52 ± 26.91
1500
1000
500
0
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

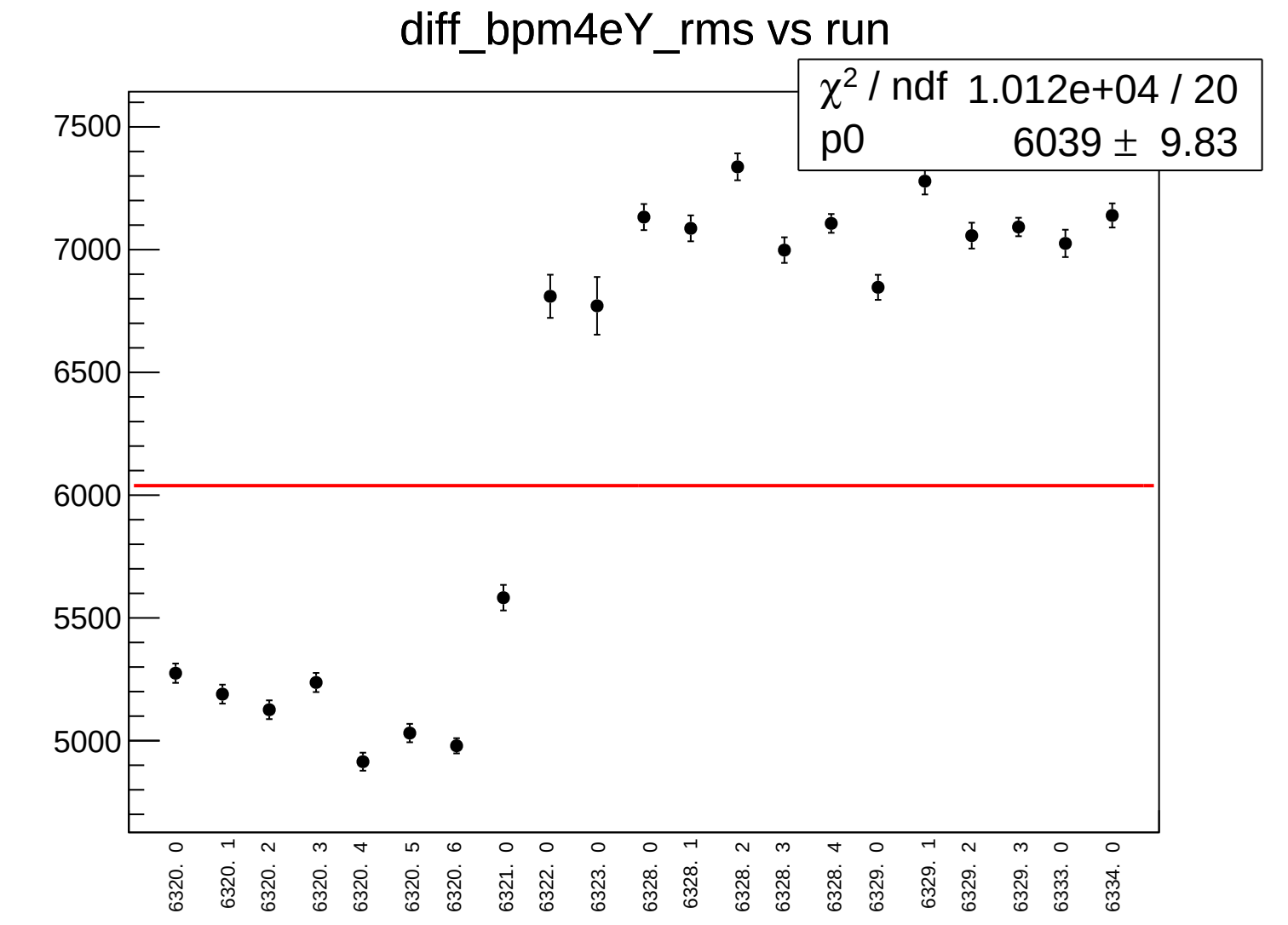

pull
Entries 21
Mean 4.441e+04
Std Dev 4.44e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

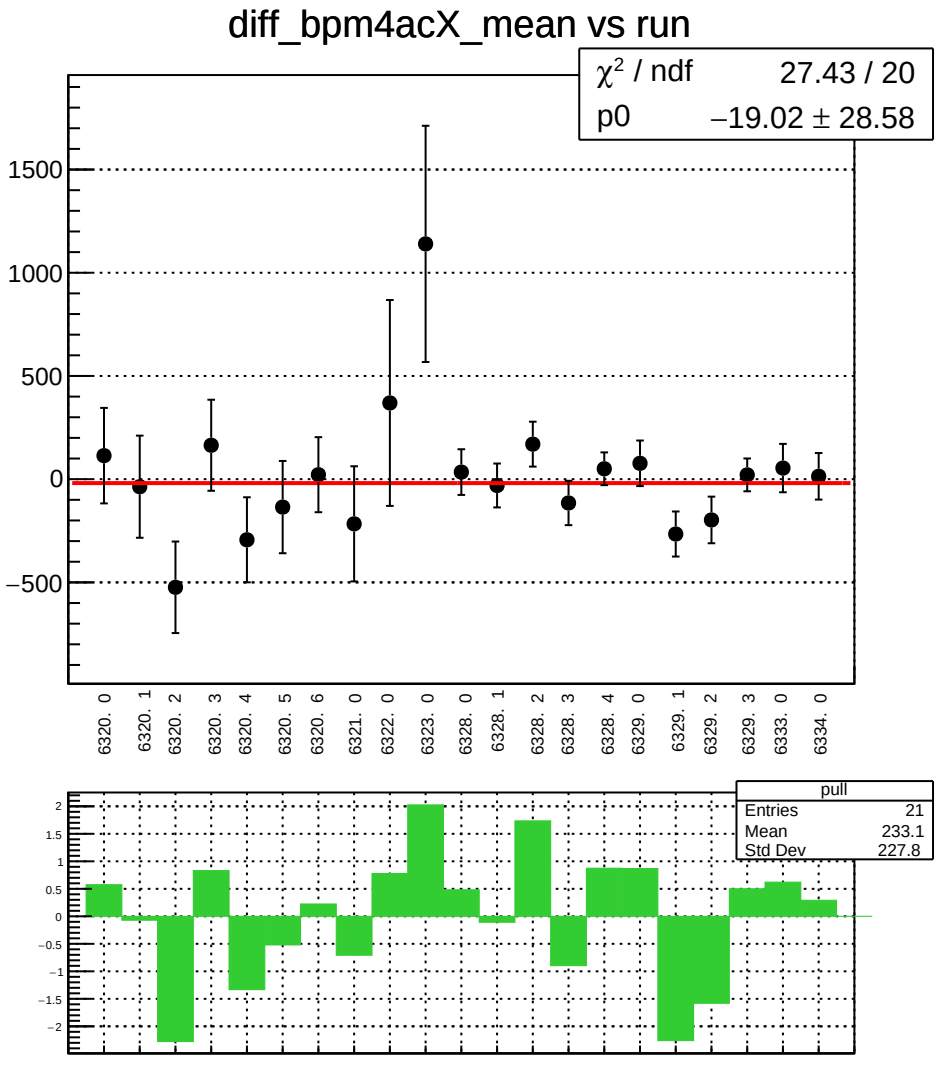

pull1D
Entries 21
Mean 1.292e−05
Std Dev 1.133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

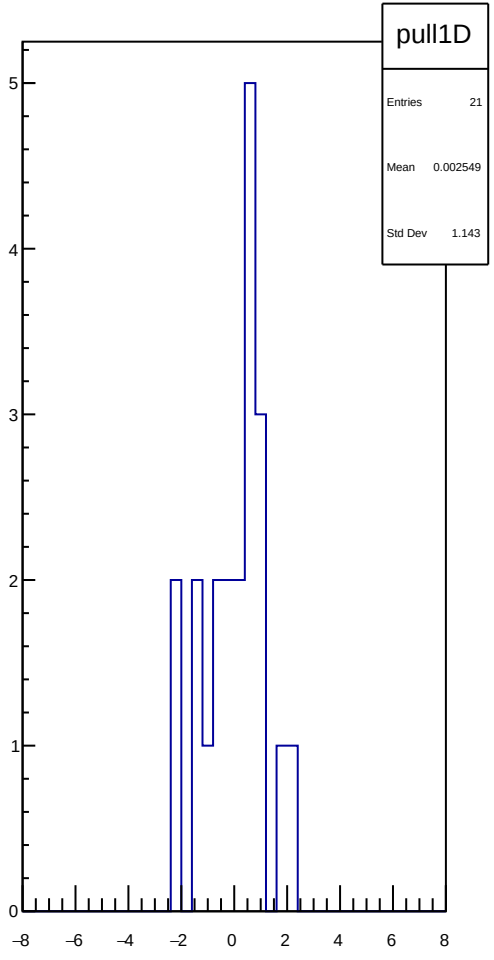

diff_bpm4eX_rms vs run
χ² / ndf 3.411e+04 / 20
p0 1.131e+04 ± 19.03
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

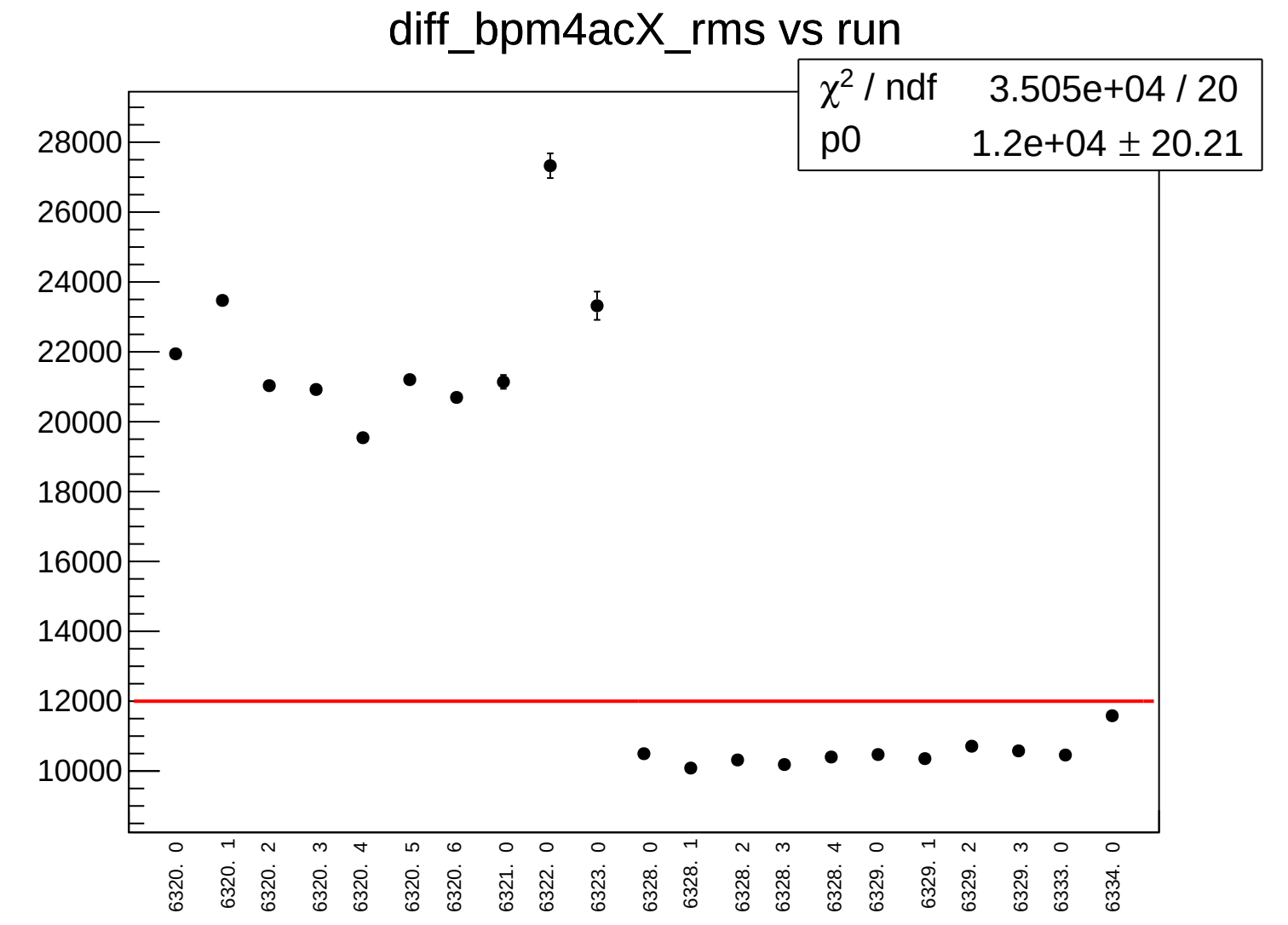

diff_bpm4eY_mean vs run
χ² / ndf 18.84 / 20
p0 22.79 ± 13.9
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.436
Std Dev 13.88
1.5
1
0.5
0
−0.5
−1
−1.5

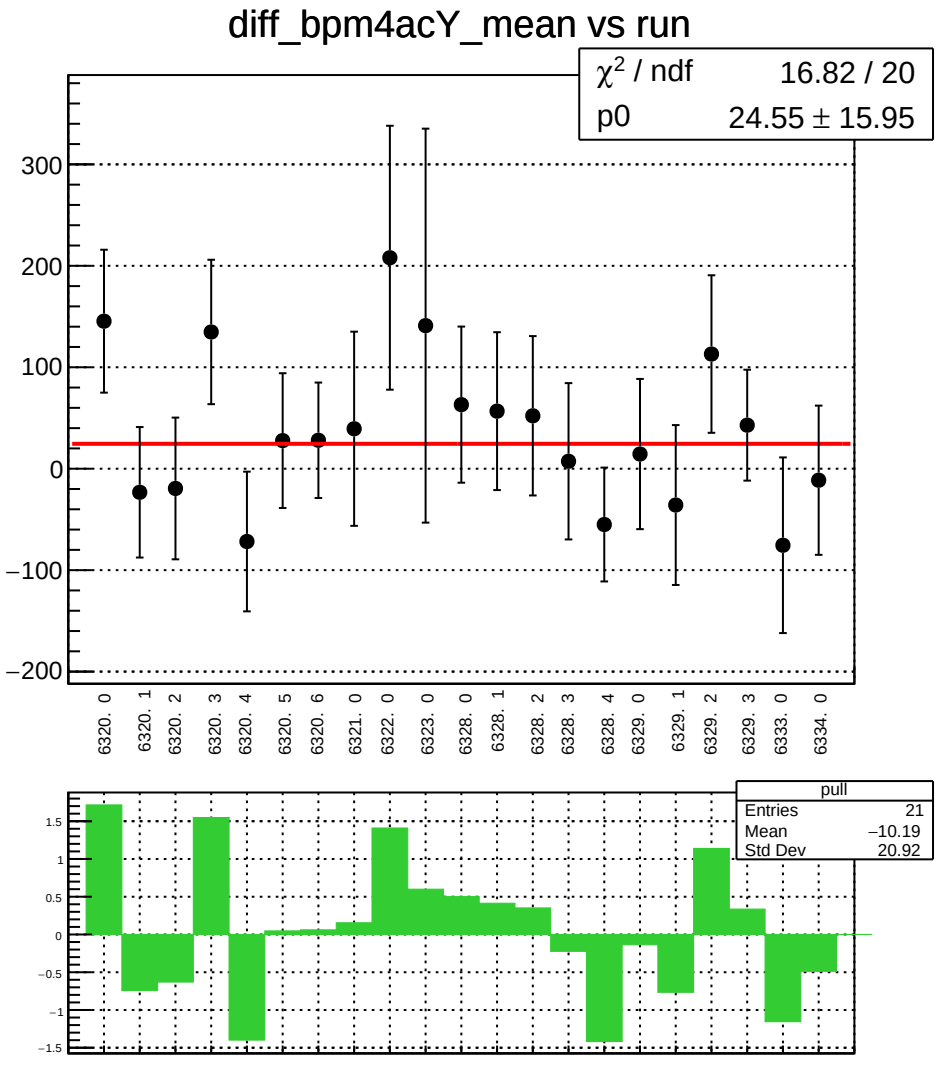

pull1D
Entries 21
Mean 0.05935
Std Dev 0.9453
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

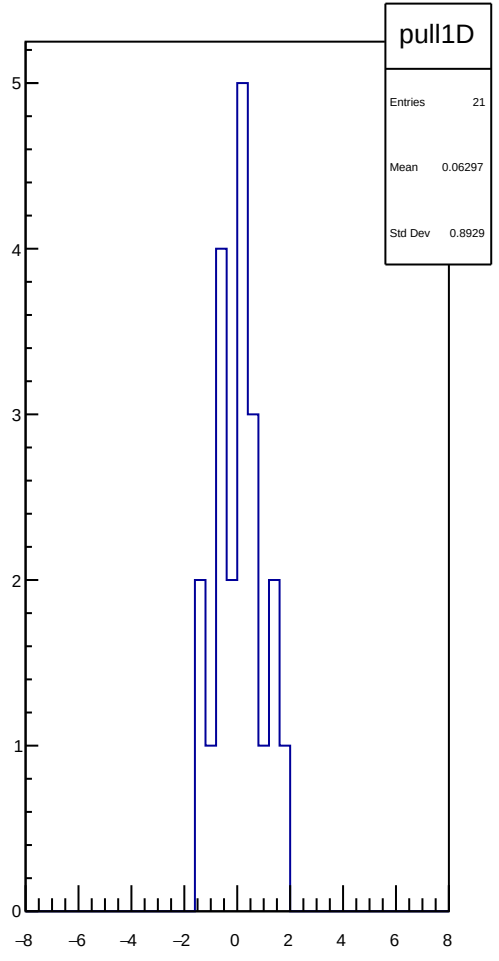

diff_bpm4eY_rms vs run
χ² / ndf 1.012e+04 / 20
p0 6039 ± 9.83
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

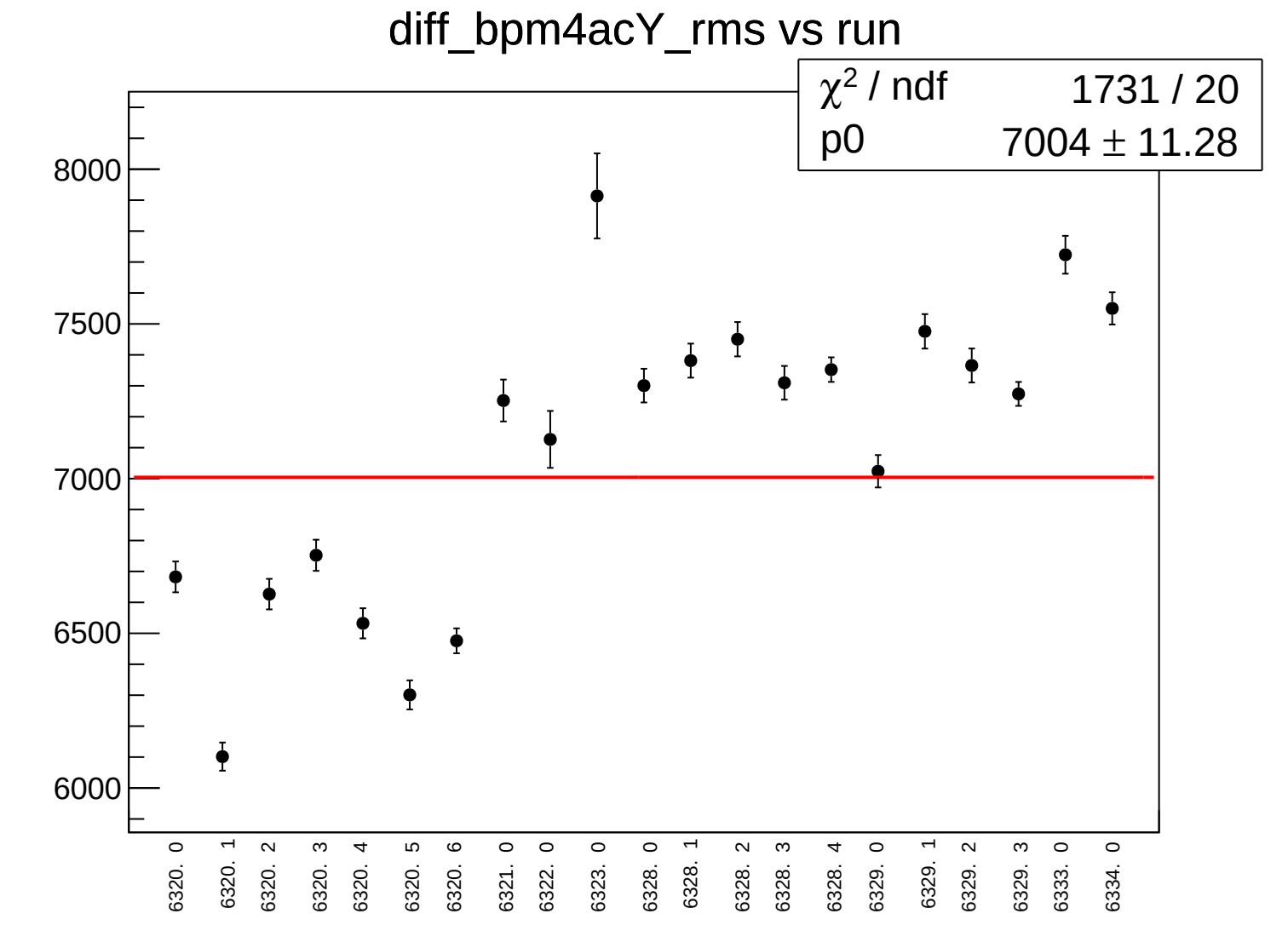

diff_bpm4acX_mean vs run
χ² / ndf 27.43 / 20
p0 −19.02 ± 28.58
1500
1000
500
0
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 233.1
Std Dev 227.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

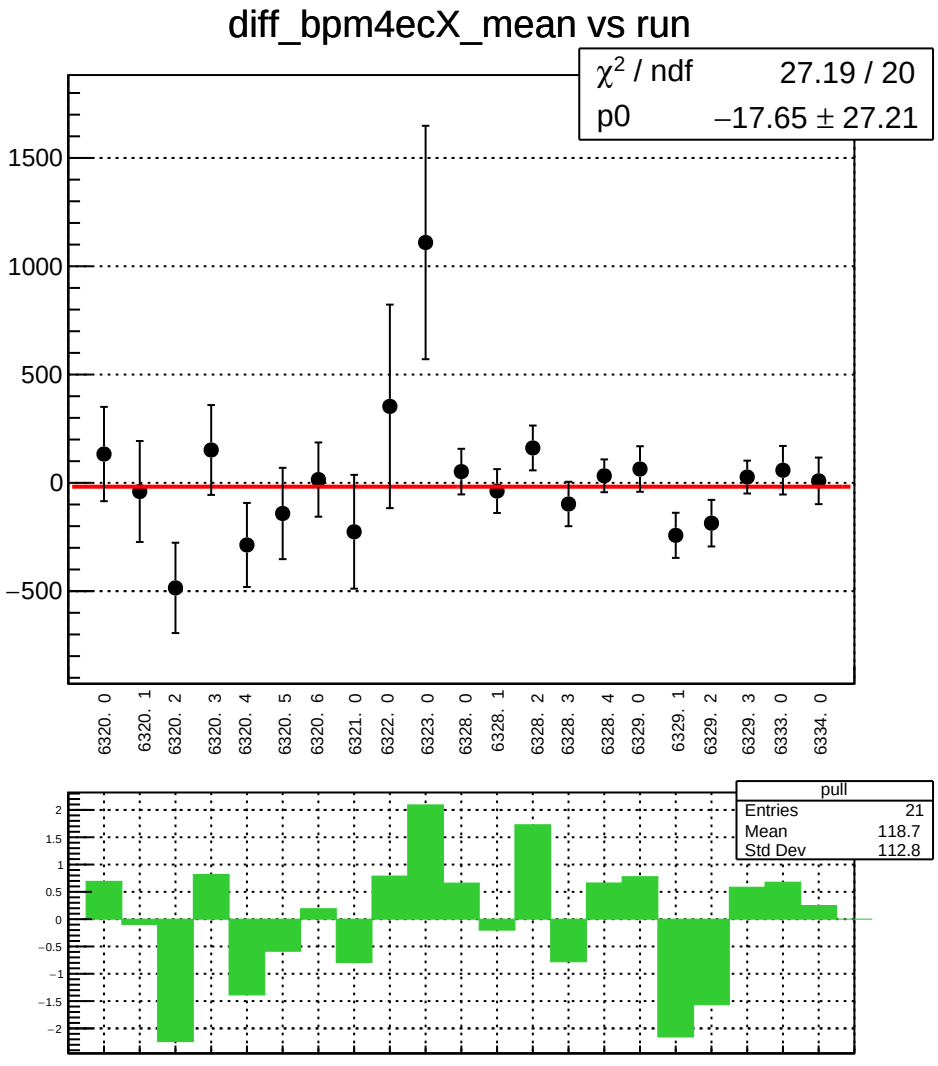

pull1D
Entries 21
Mean 0.002549
Std Dev 1.143
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

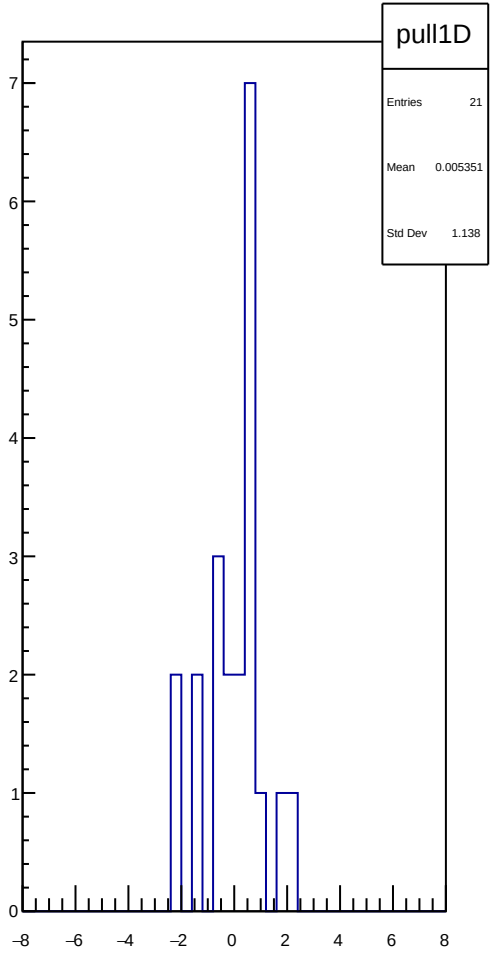

diff_bpm4acX_rms vs run
χ² / ndf 3.505e+04 / 20
p0 1.2e+04 ± 20.21
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

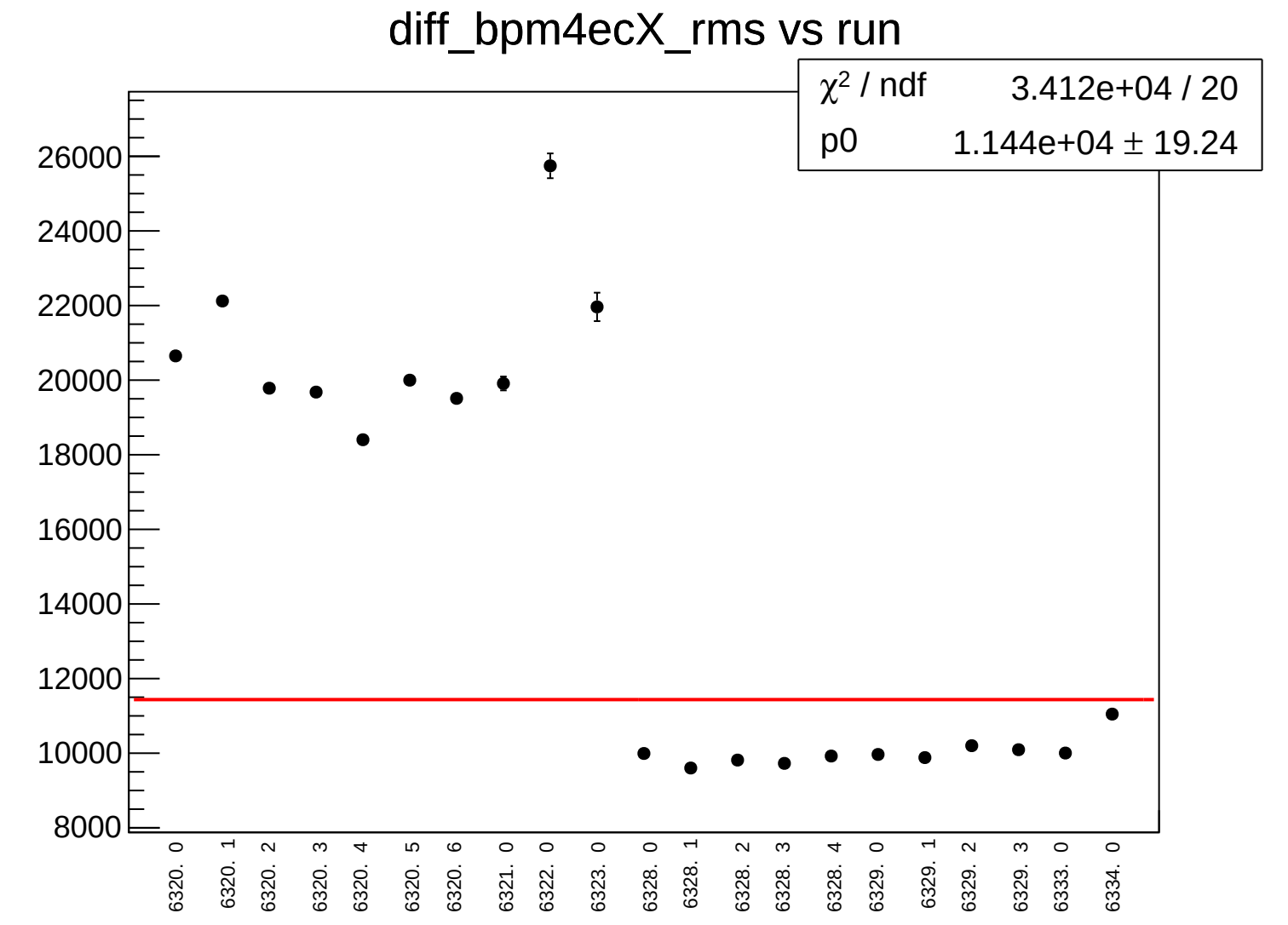

diff_bpm4acY_mean vs run
χ² / ndf 16.82 / 20
p0 24.55 ± 15.95
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.19
Std Dev 20.92
1.5
1
0.5
0
−0.5
−1
−1.5

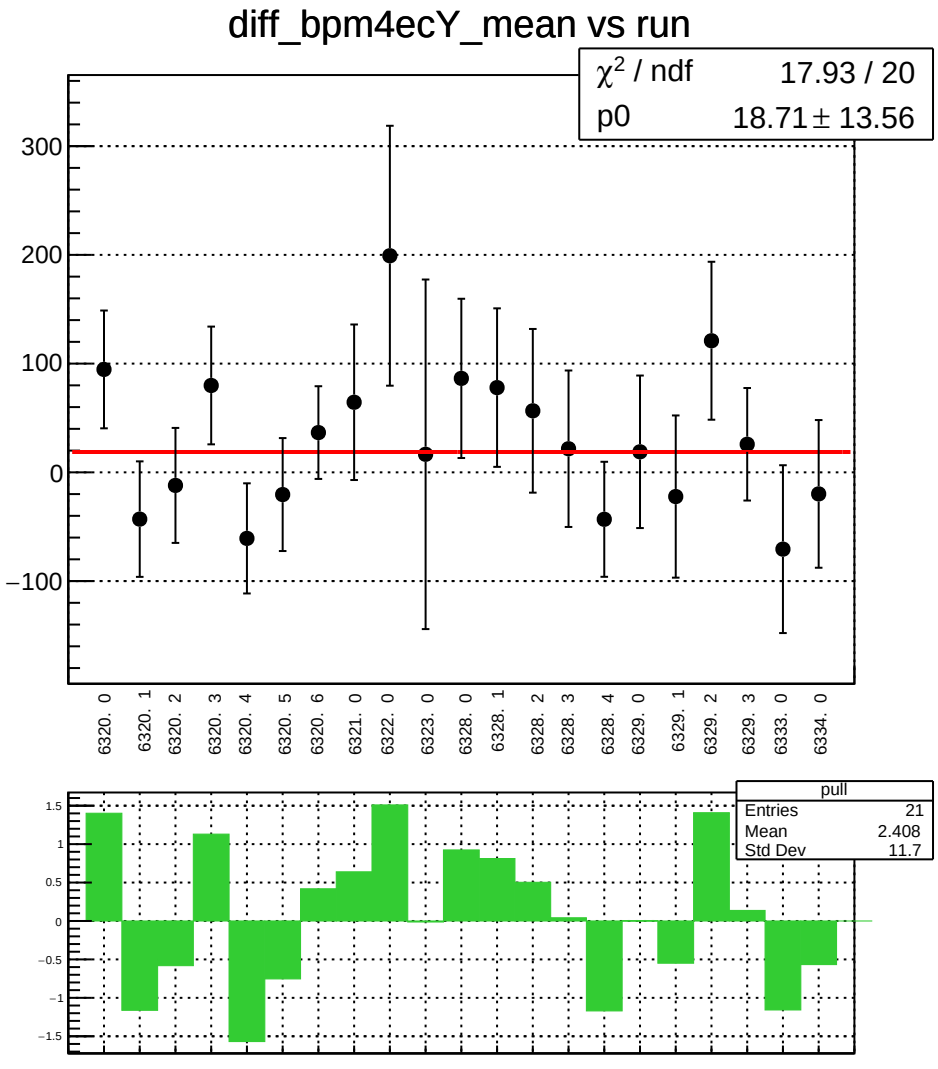

pull1D
Entries 21
Mean 0.06297
Std Dev 0.8929
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

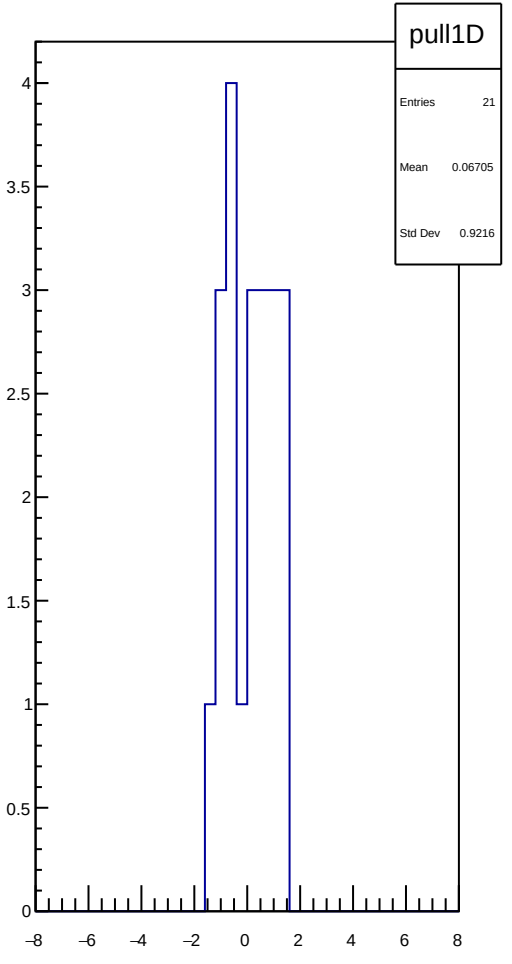

diff_bpm4acY_rms vs run
χ² / ndf 1731 / 20
p0 7004 ± 11.28
8000
7500
7000
6500
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

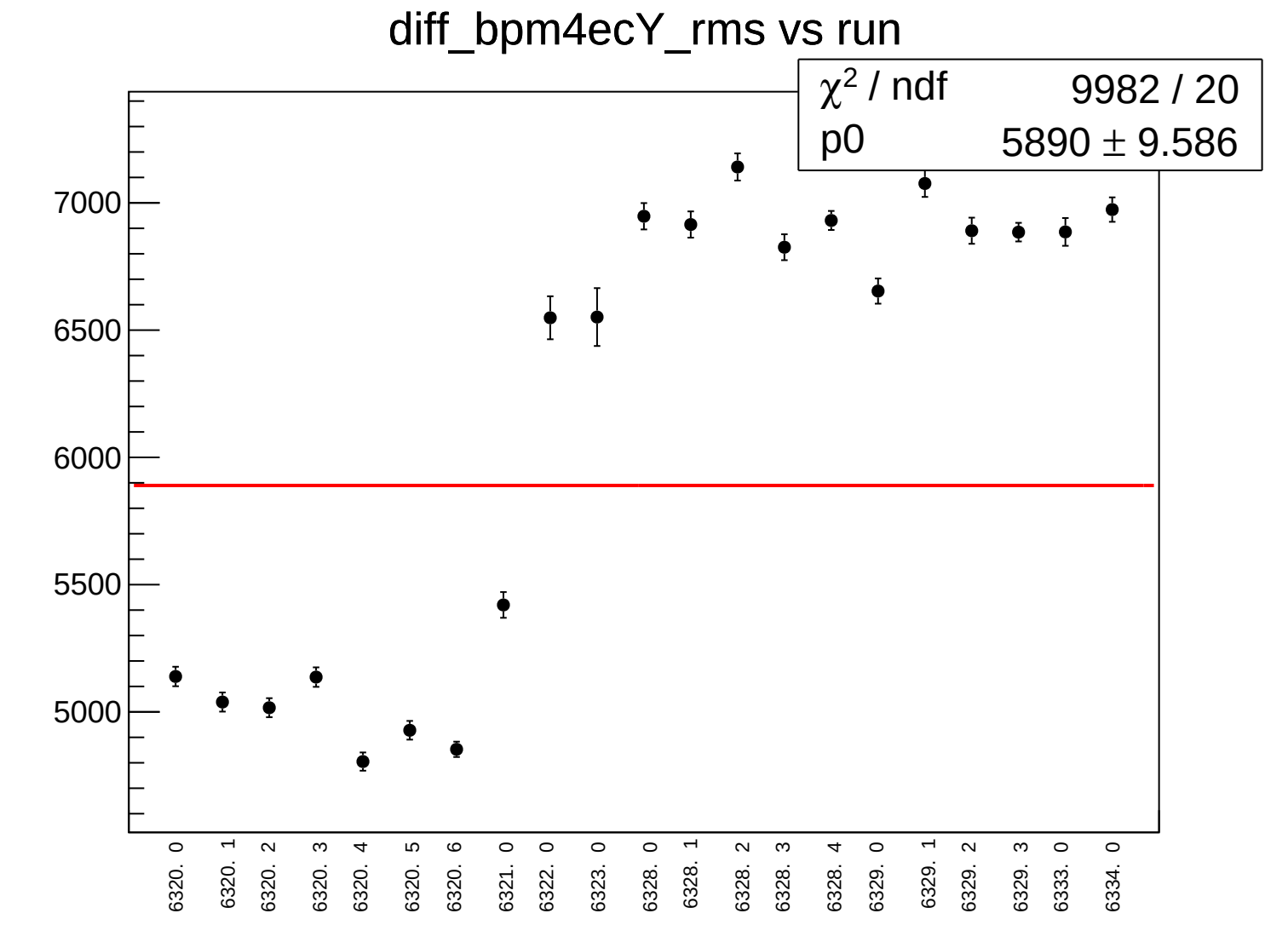

diff_bpm4ecX_mean vs run
χ² / ndf 27.19 / 20
p0 −17.65 ± 27.21
1500
1000
500
0
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 118.7
Std Dev 112.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

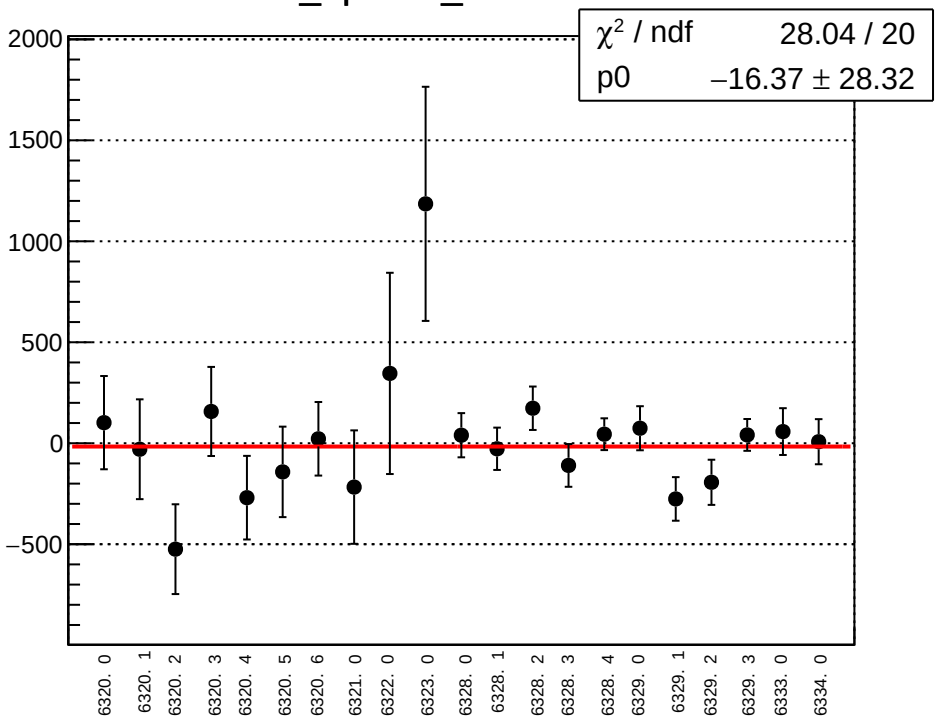

pull1D
Entries 21
Mean 0.005351
Std Dev 1.138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

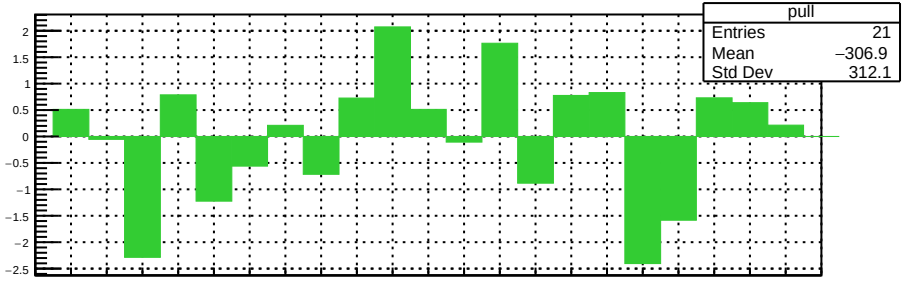

diff_bpm4ecX_rms vs run
χ² / ndf 3.412e+04 / 20
p0 1.144e+04 ± 19.24
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

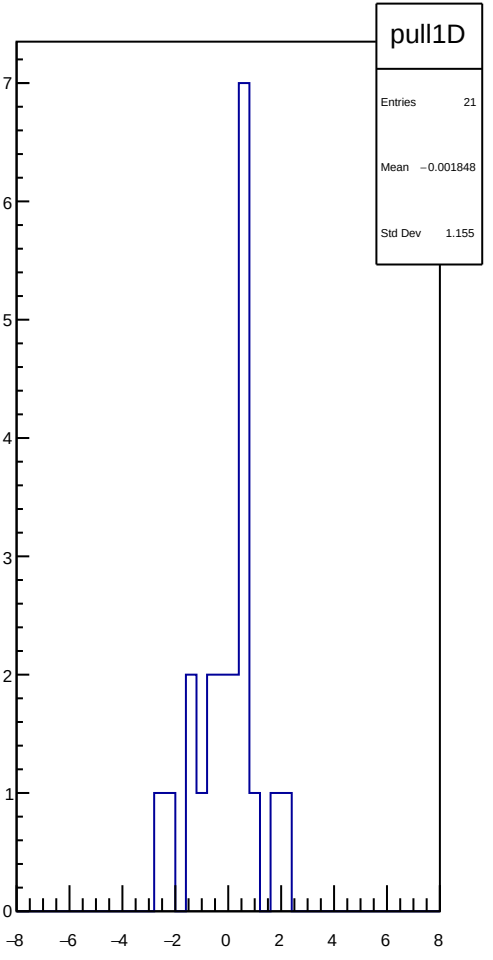

diff_bpm4ecY_mean vs run
χ² / ndf 17.93 / 20
p0 18.71 ± 13.56
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.408
Std Dev 11.7
1.5
1
0.5
0
−0.5
−1
−1.5

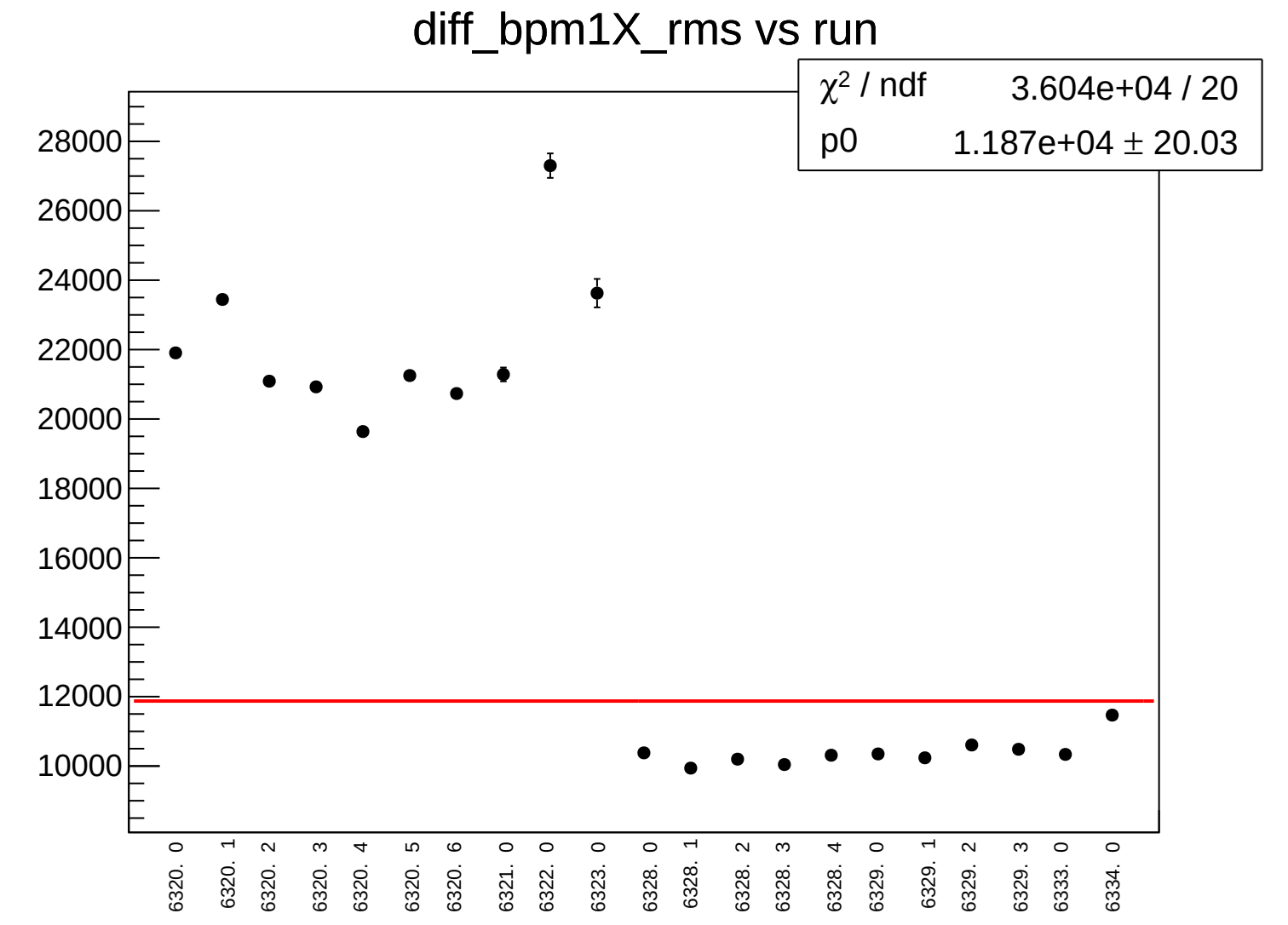

pull1D
Entries 21
Mean 0.06705
Std Dev 0.9216
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

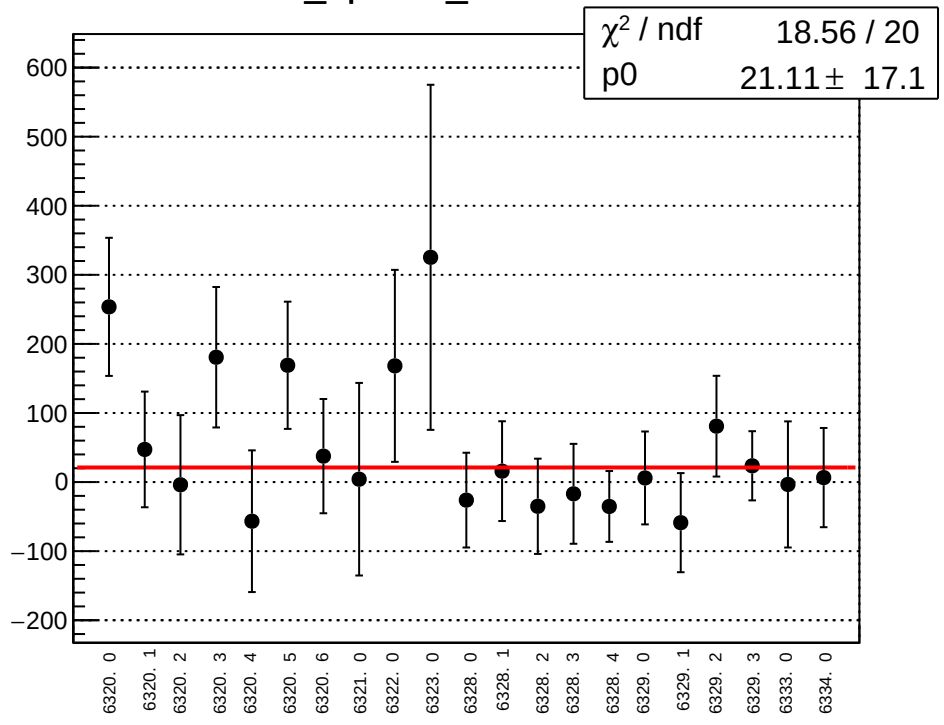

diff_bpm4ecY_rms vs run
χ² / ndf 9982 / 20
p0 5890 ± 9.586
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

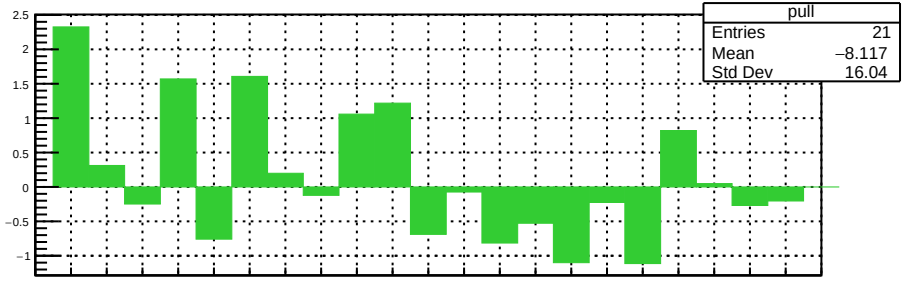

diff_bpm1X_mean vs run
χ² / ndf 28.04 / 20
p0 −16.37 ± 28.32
2000
1500
1000
500
0
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

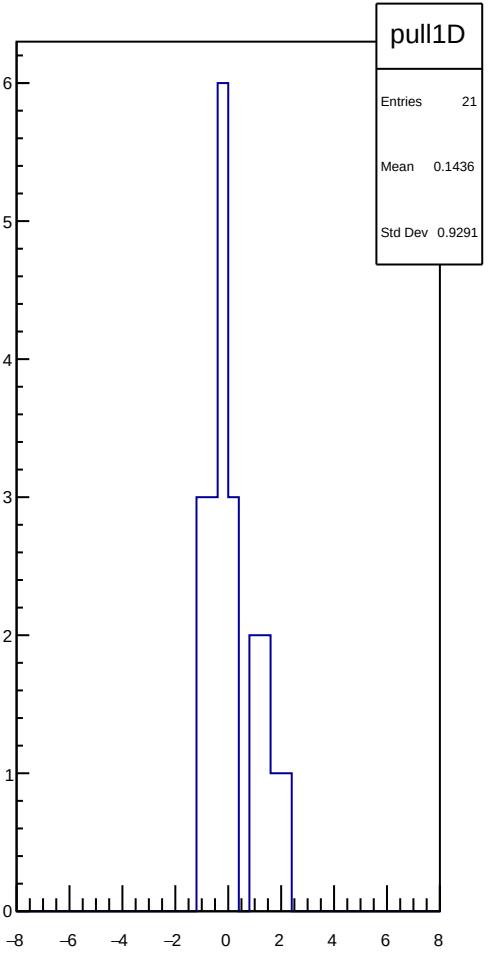

pull
Entries 21
Mean −306.9
Std Dev 312.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

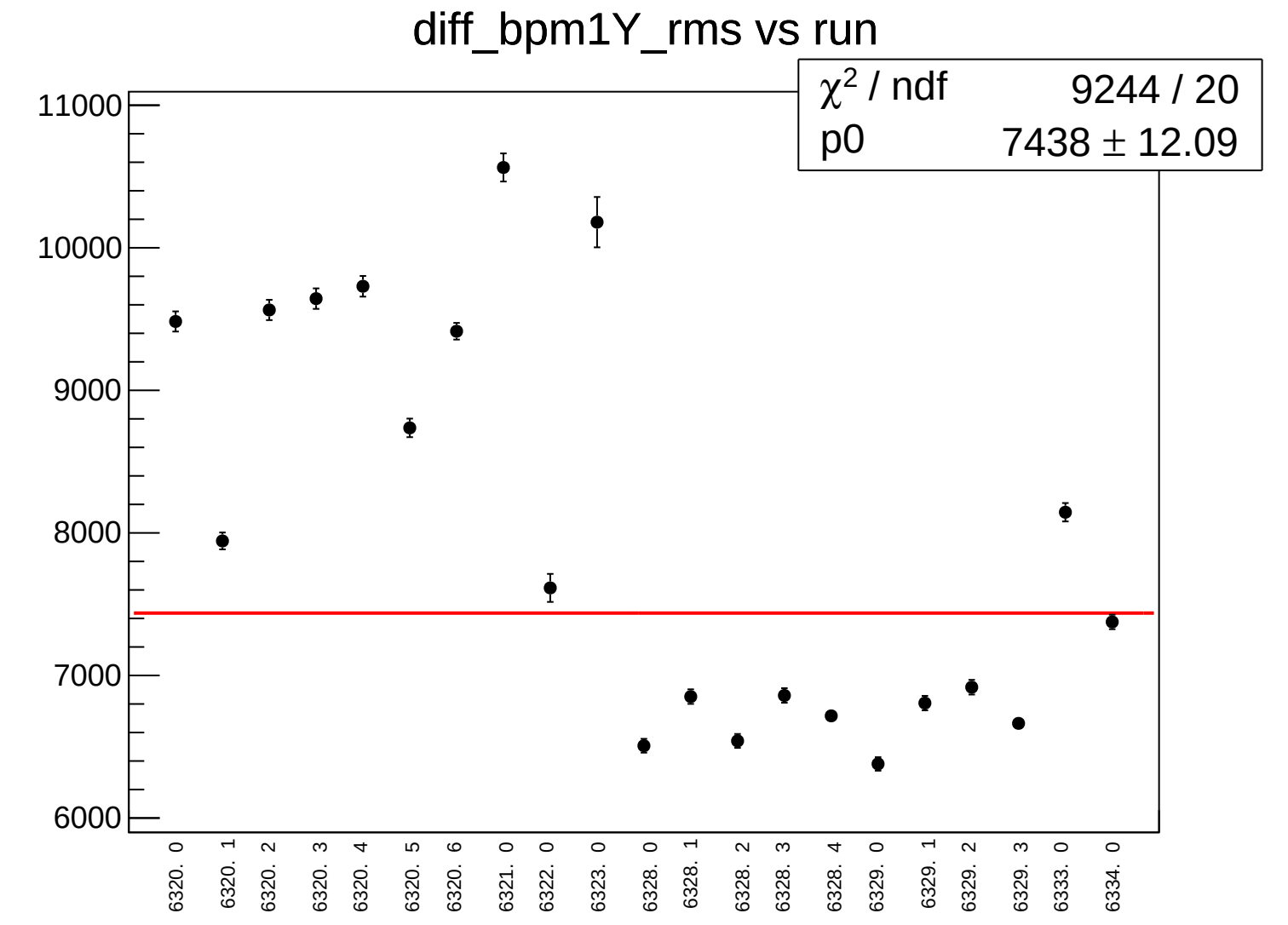

pull1D
Entries 21
Mean −0.001848
Std Dev 1.155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

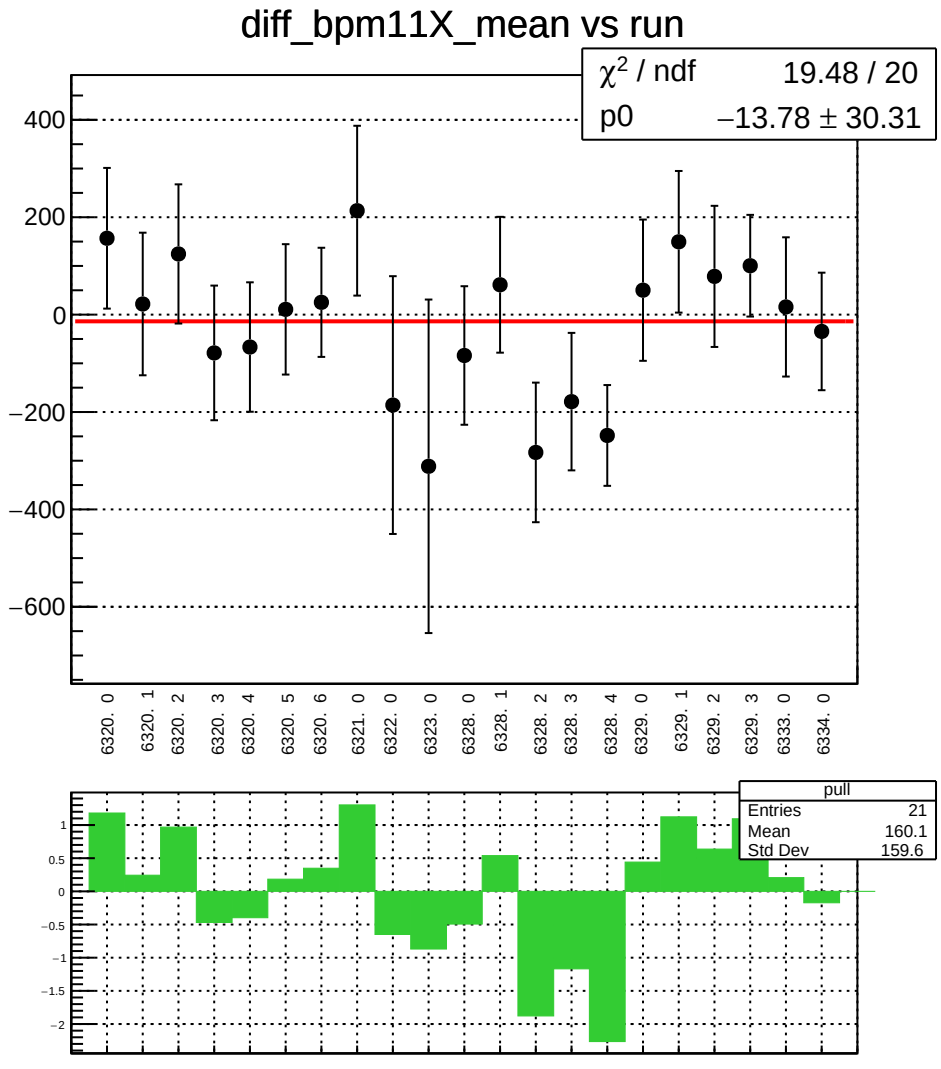

diff_bpm1X_rms vs run
χ² / ndf 3.604e+04 / 20
p0 1.187e+04 ± 20.03
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

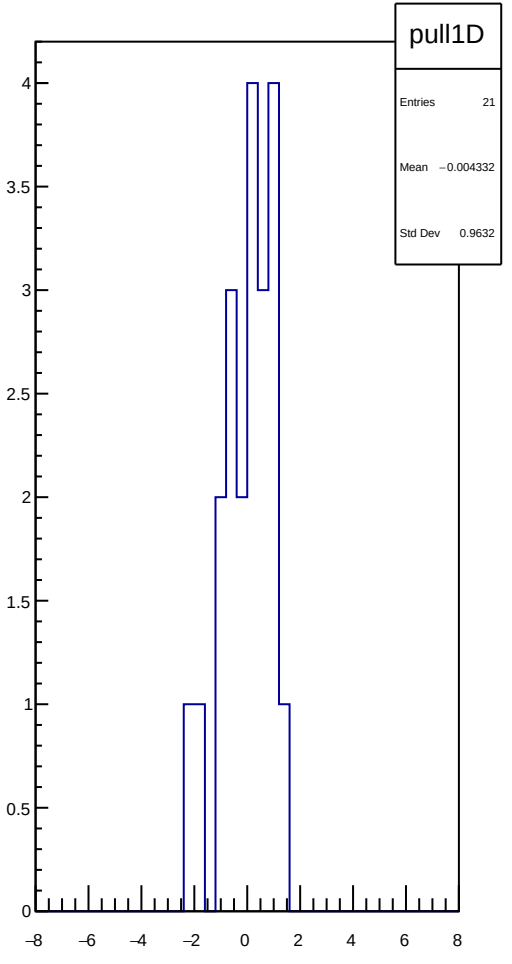

diff_bpm1Y_mean vs run
χ² / ndf 18.56 / 20
p0 21.11 ± 17.1
600
500
400
300
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

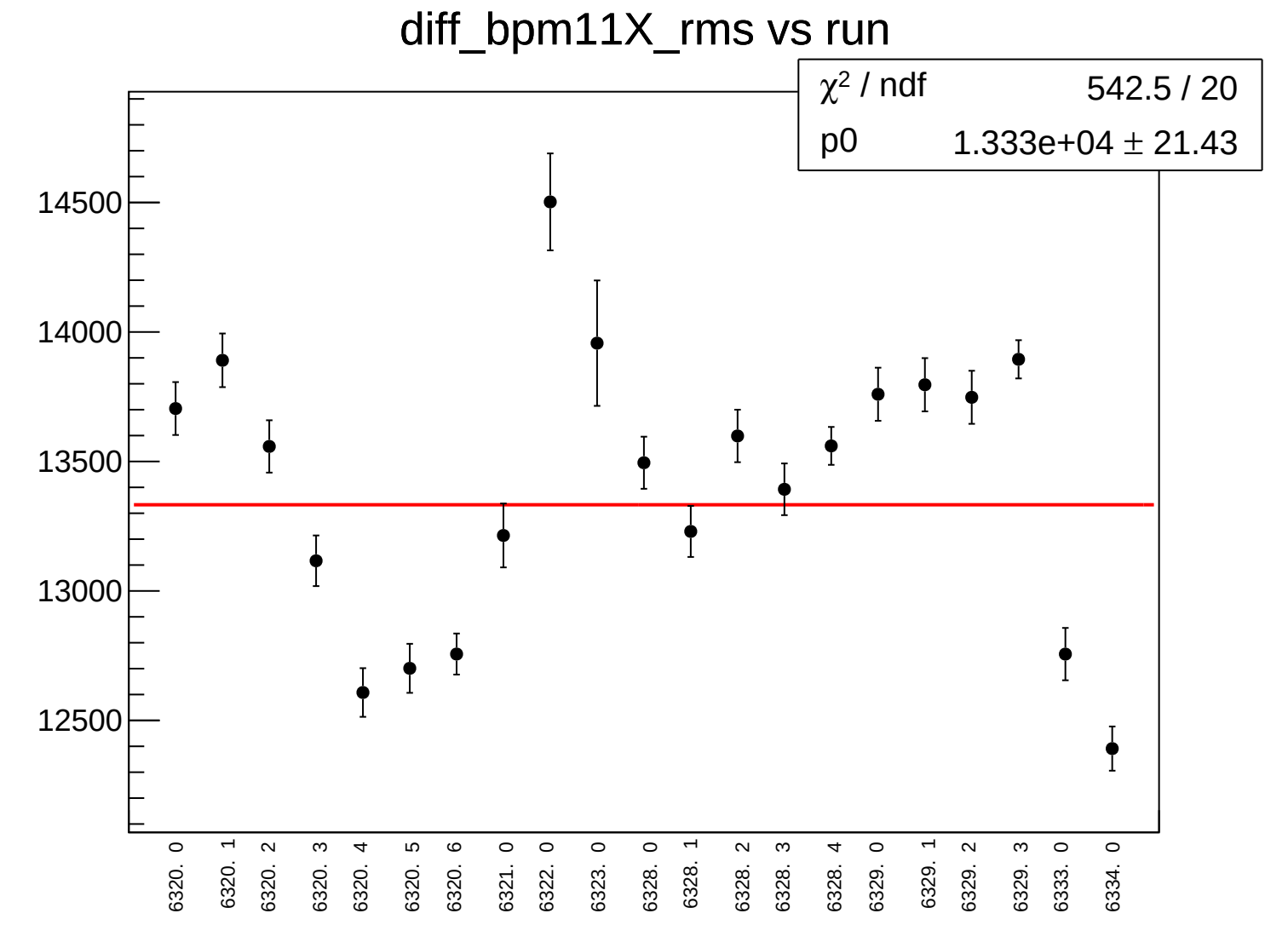

pull
Entries 21
Mean −8.117
Std Dev 16.04
2.5
2
1.5
1
0.5
0
−0.5
−1

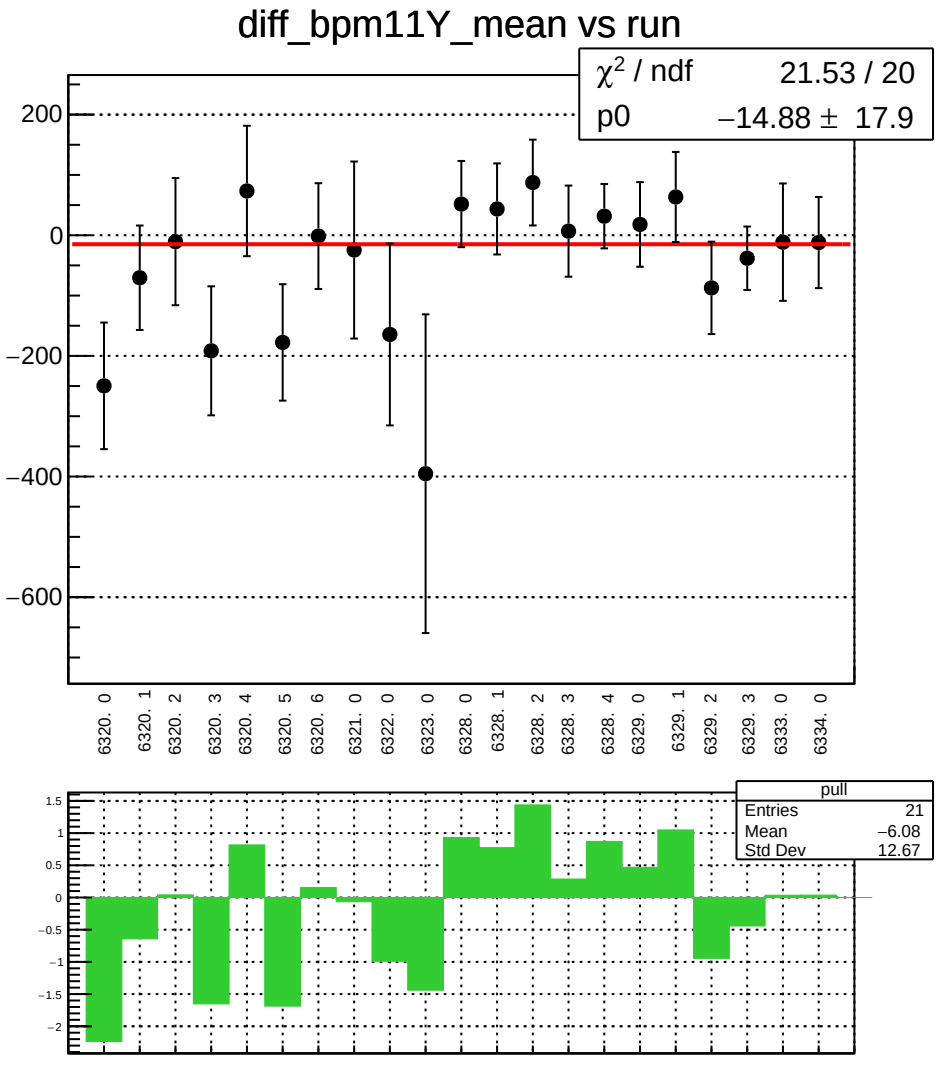

pull1D
Entries 21
Mean 0.1436
Std Dev 0.9291
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

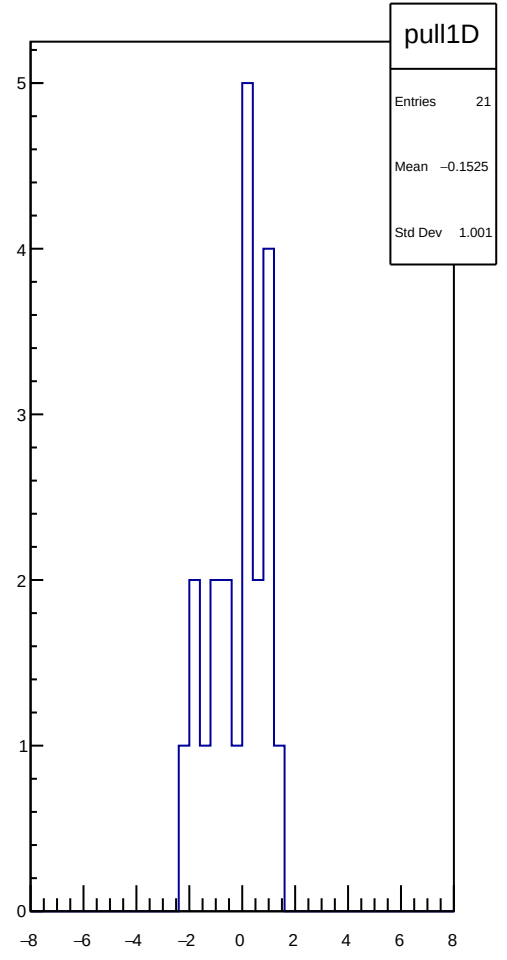

diff_bpm1Y_rms vs run
χ² / ndf 9244 / 20
p0 7438 ± 12.09
11000
10000
9000
8000
7000
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

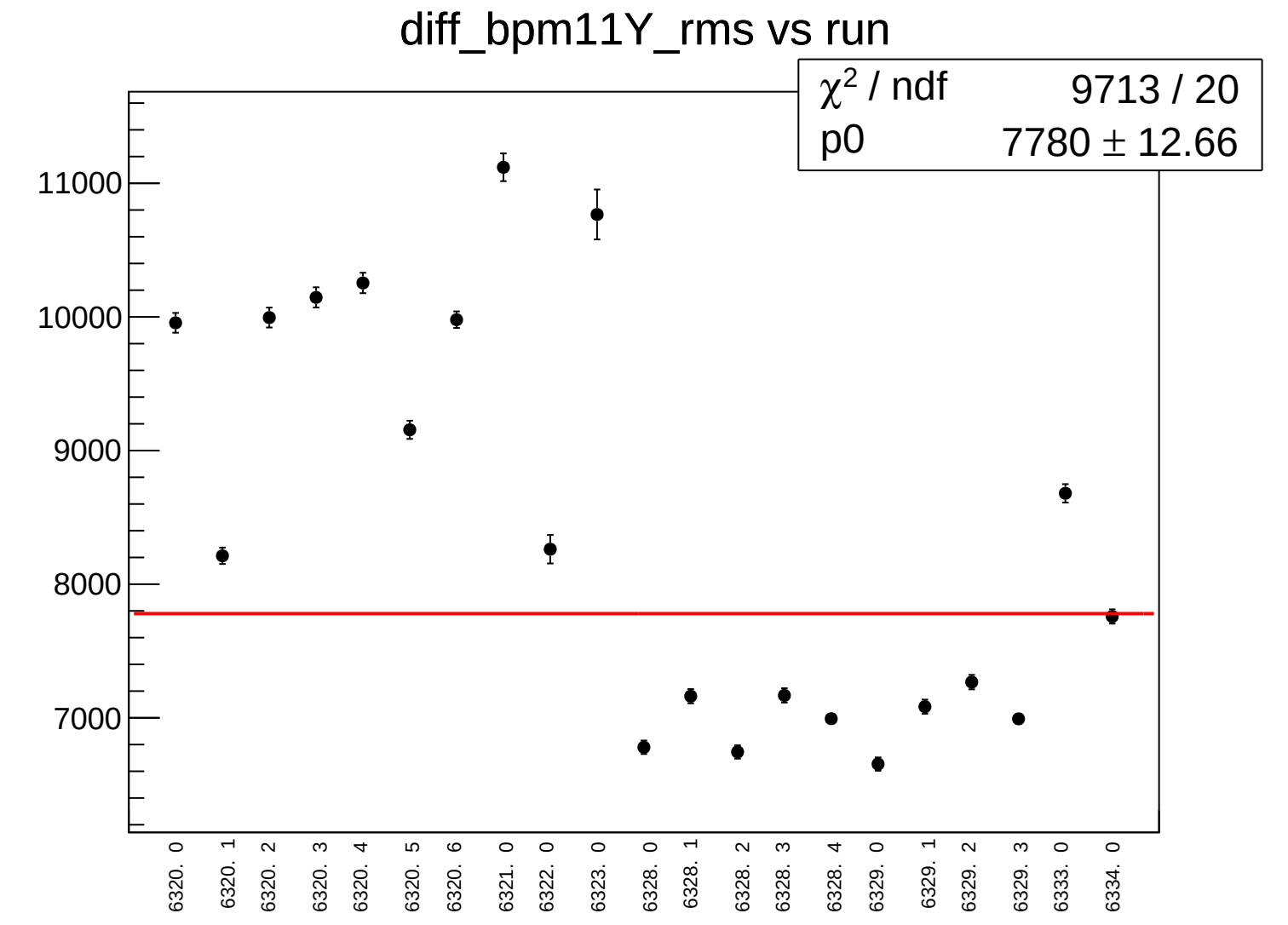

diff_bpm11X_mean vs run
χ² / ndf 19.48 / 20
p0 −13.78 ± 30.31
400
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 160.1
Std Dev 159.6
1
0.5
0
−0.5
−1
−1.5
−2

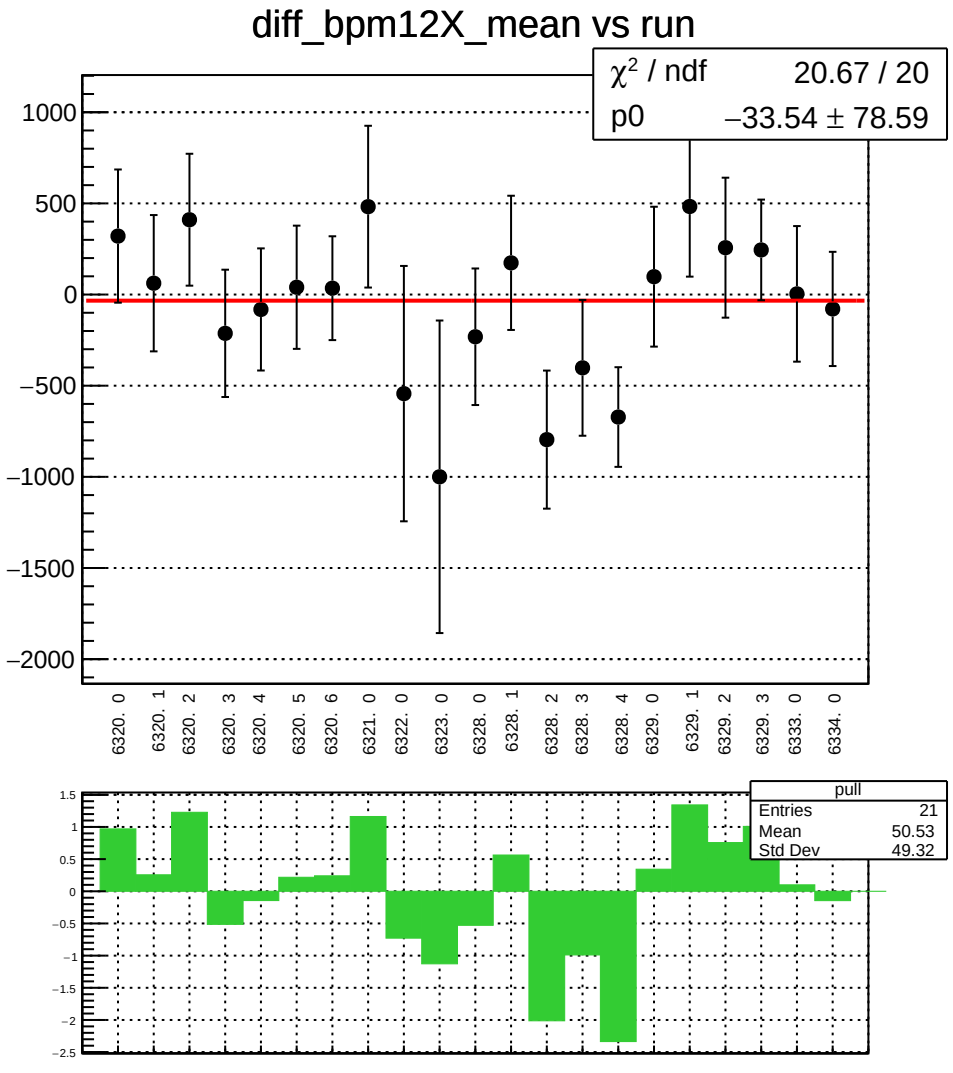

pull1D
Entries 21
Mean −0.004332
Std Dev 0.9632
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

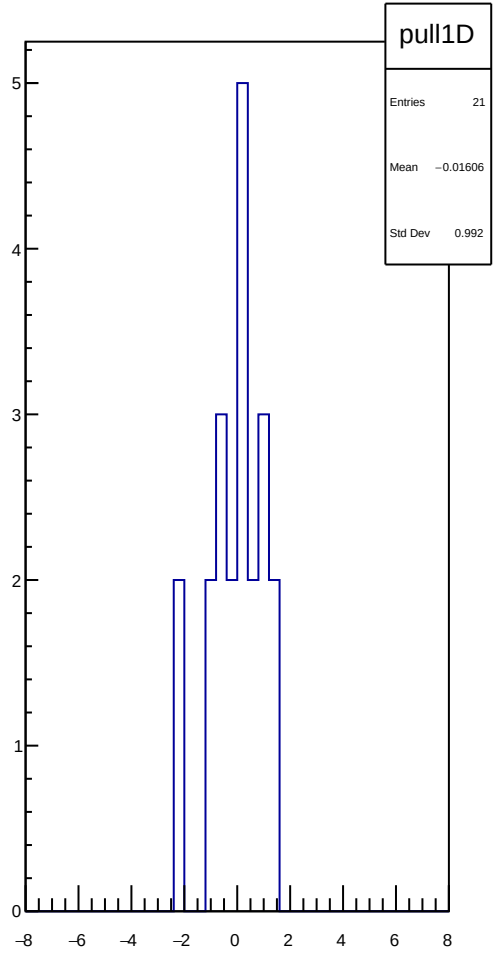

diff_bpm11X_rms vs run
χ² / ndf 542.5 / 20
p0 1.333e+04 ± 21.43
14500
14000
13500
13000
12500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

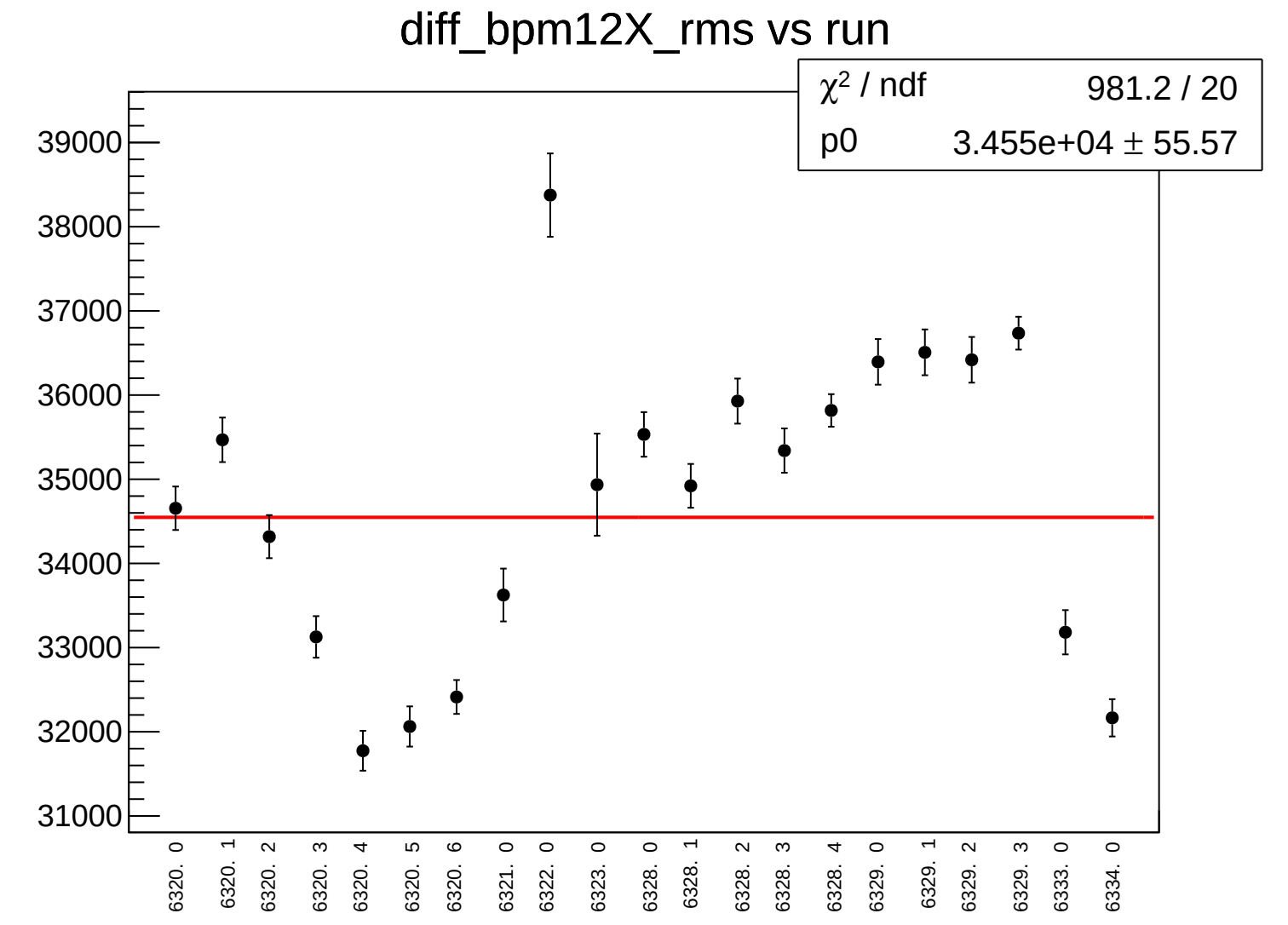

diff_bpm11Y_mean vs run
χ² / ndf 21.53 / 20
p0 −14.88 ± 17.9
200
0
−200
−400
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.08
Std Dev 12.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2

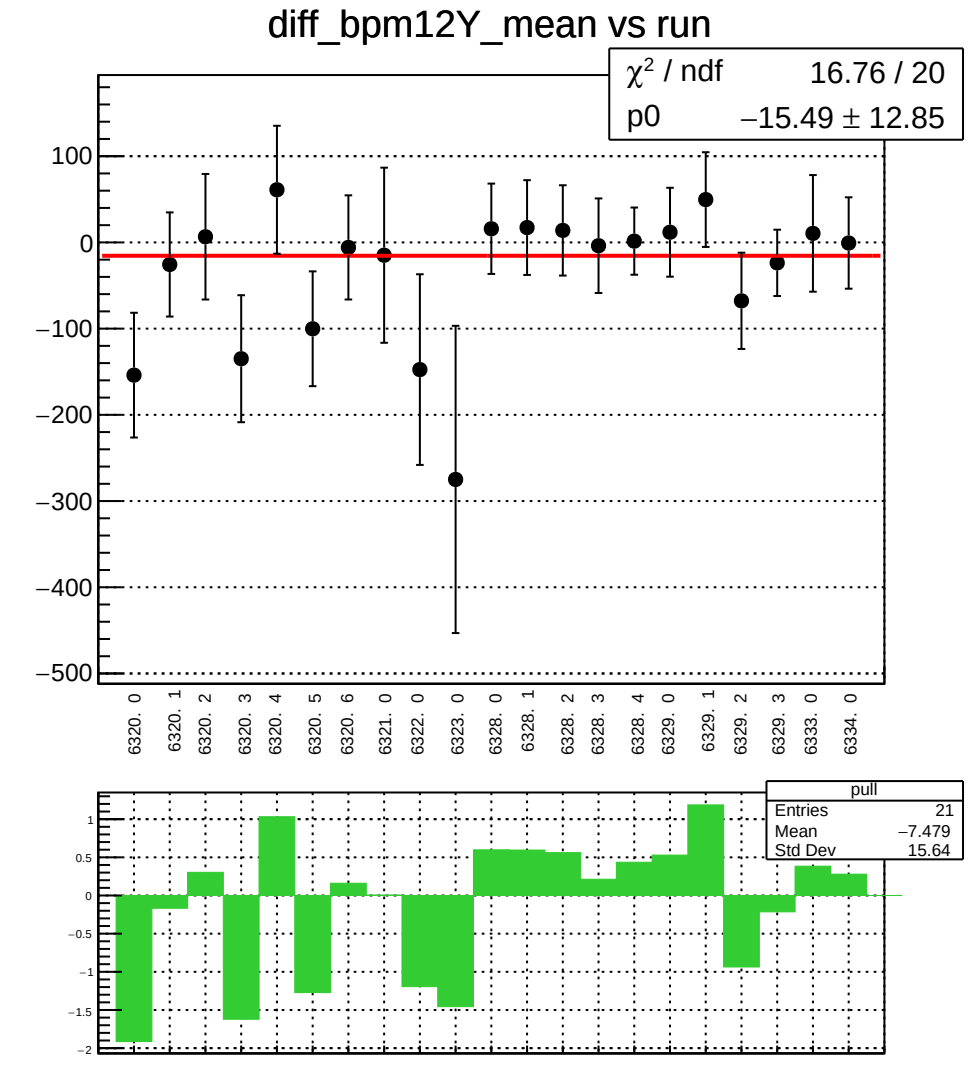

pull1D
Entries 21
Mean −0.1525
Std Dev 1.001
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

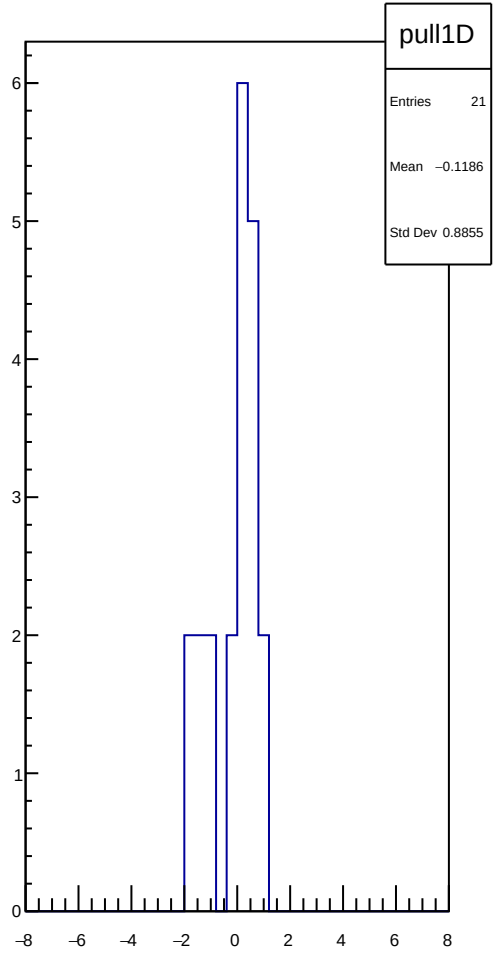

diff_bpm11Y_rms vs run
χ² / ndf 9713 / 20
p0 7780 ± 12.66
11000
10000
9000
8000
7000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

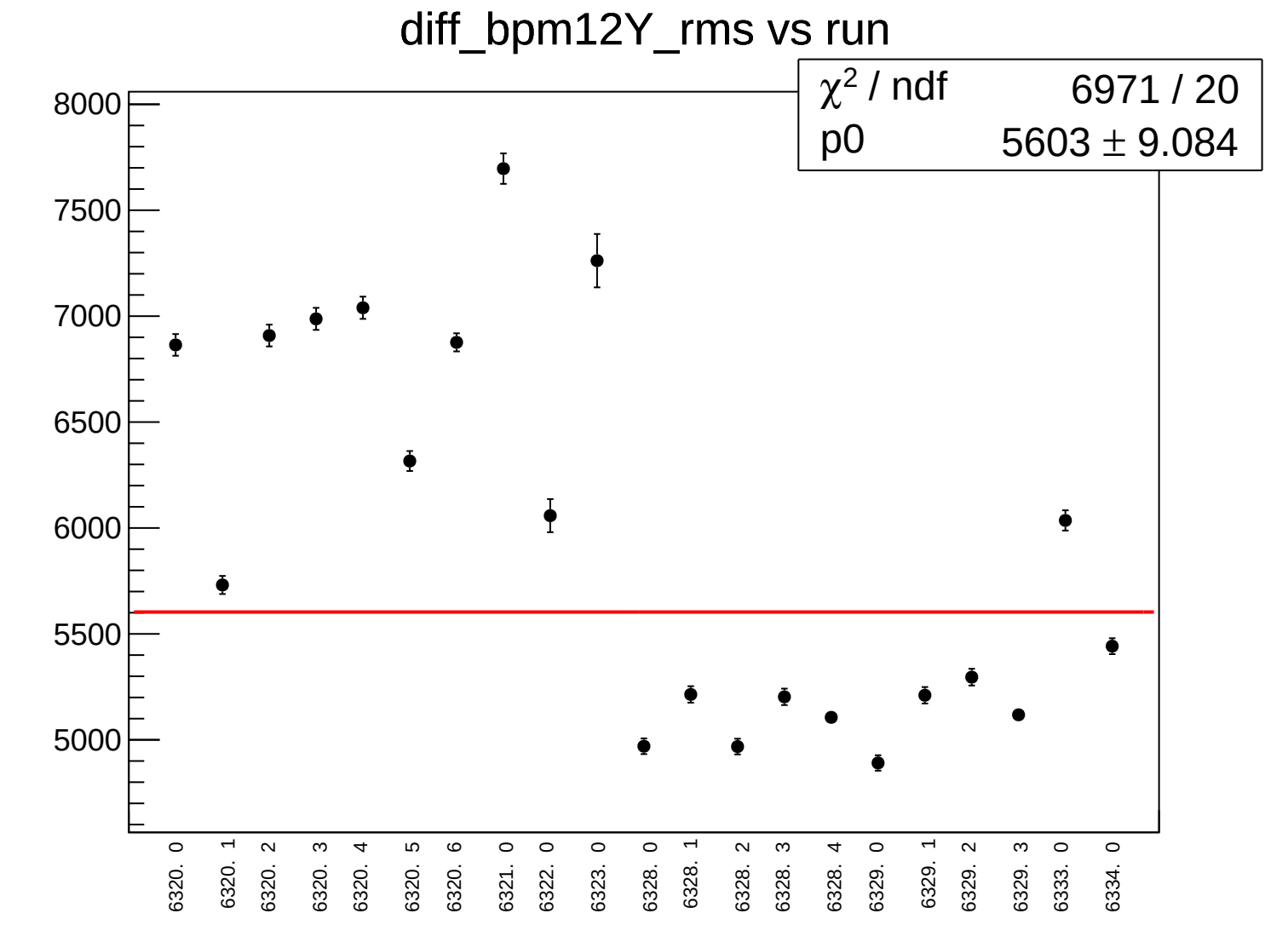

diff_bpm12X_mean vs run
χ² / ndf 20.67 / 20
p0 −33.54 ± 78.59
1000
500
0
−500
−1000
−1500
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 50.53
Std Dev 49.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

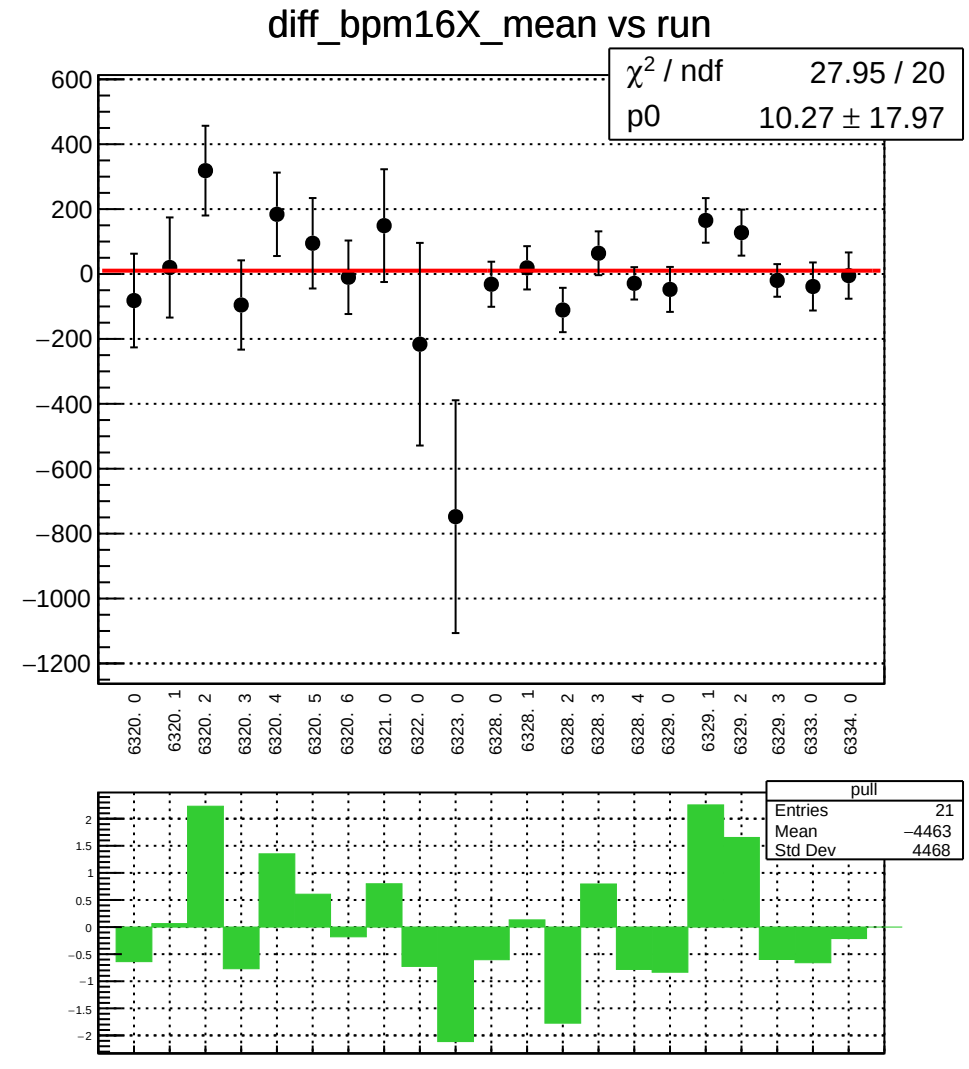

pull1D
Entries 21
Mean −0.01606
Std Dev 0.992
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

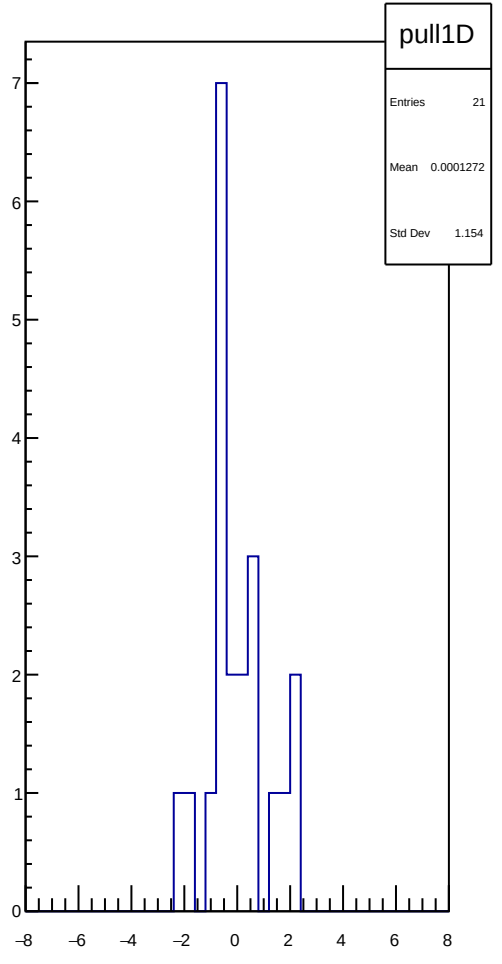

diff_bpm12X_rms vs run
χ² / ndf 981.2 / 20
p0 3.455e+04 ± 55.57
39000
38000
37000
36000
35000
34000
33000
32000
31000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

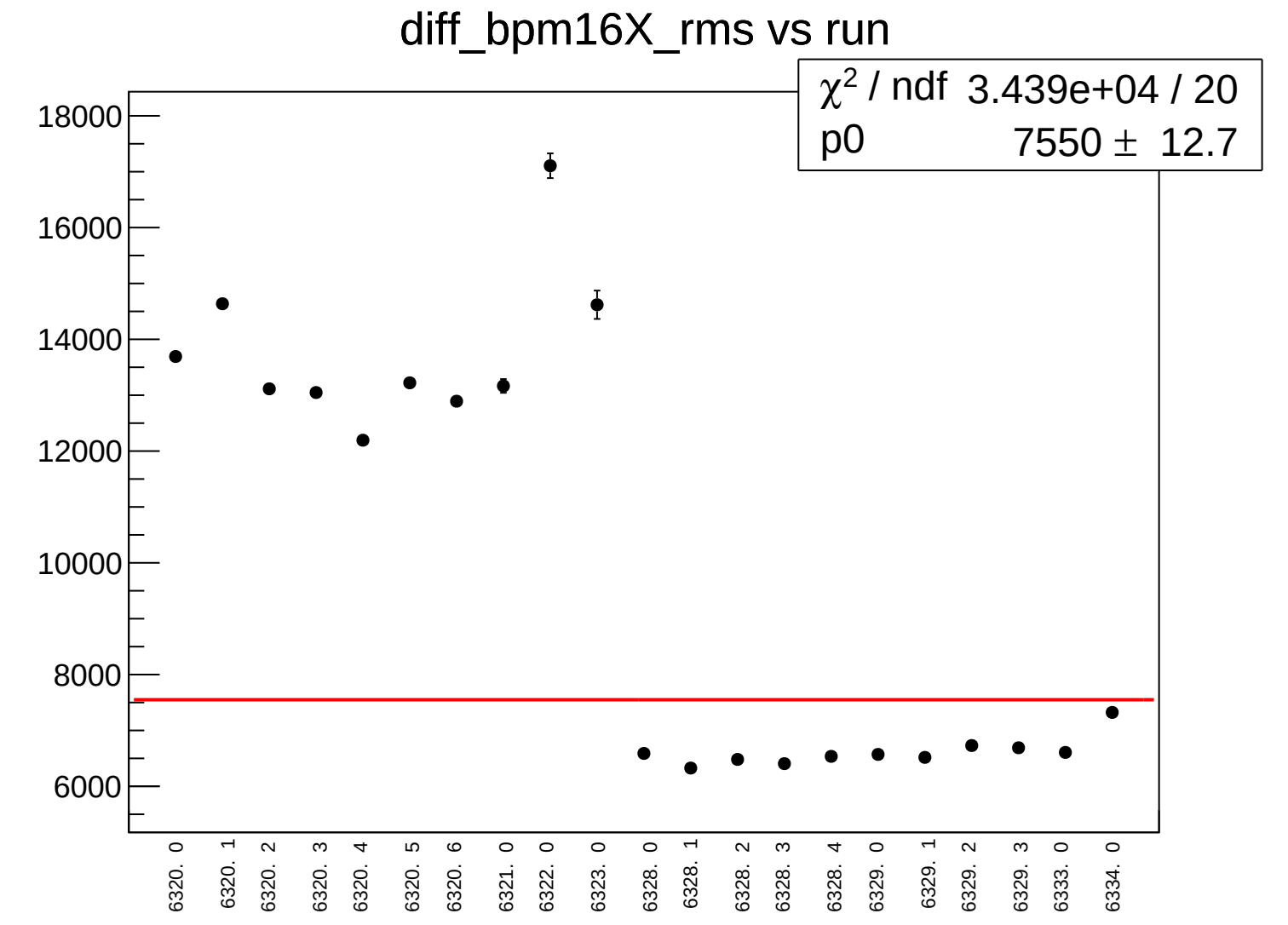

diff_bpm12Y_mean vs run
χ² / ndf 16.76 / 20
p0 −15.49 ± 12.85
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.479
Std Dev 15.64
1
0.5
0
−0.5
−1
−1.5
−2

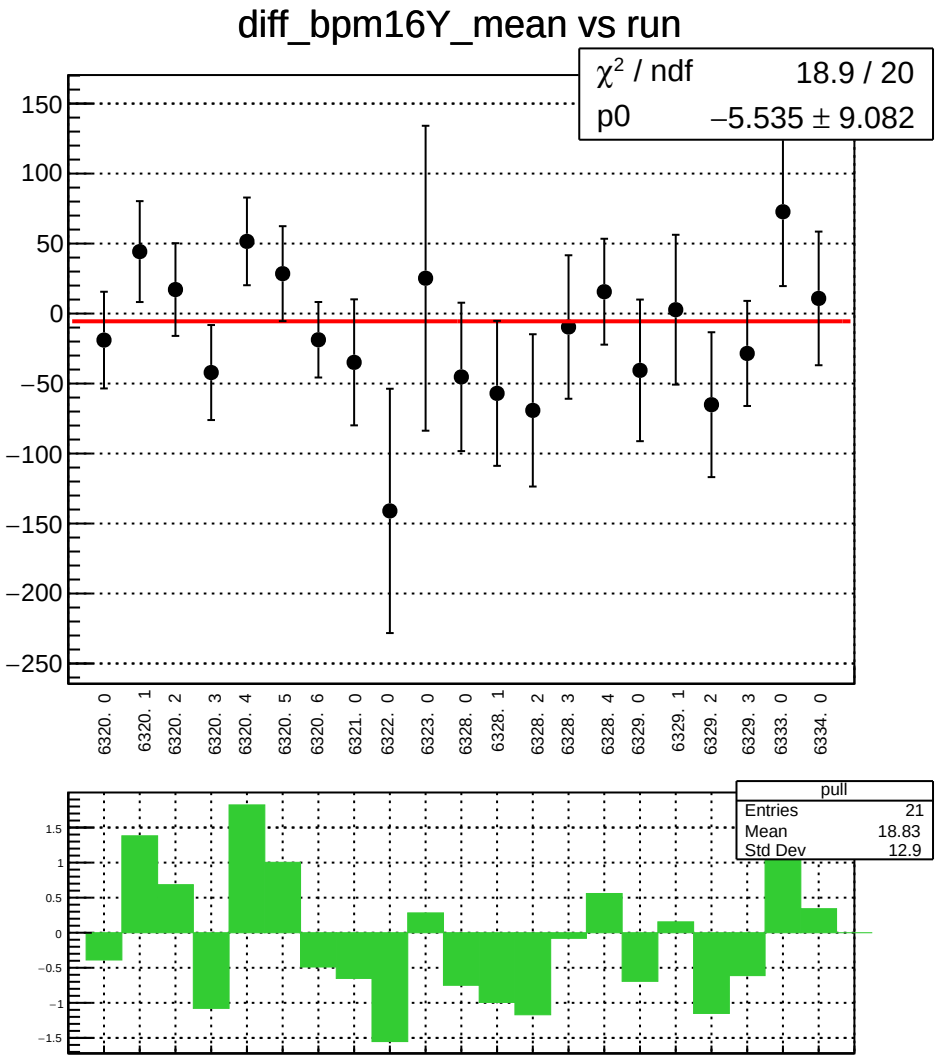

pull1D
Entries 21
Mean −0.1186
Std Dev 0.8855
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

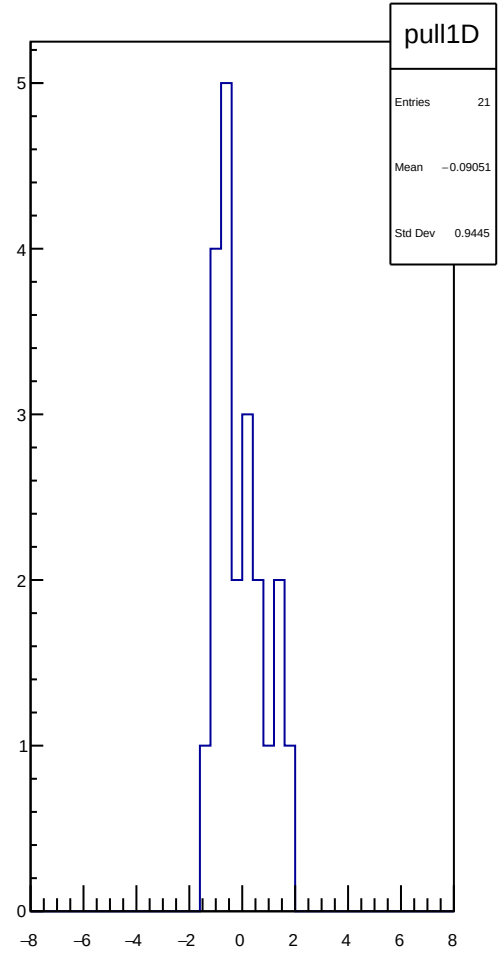

diff_bpm12Y_rms vs run
χ² / ndf 6971 / 20
p0 5603 ± 9.084
8000
7500
7000
6500
6000
5500
5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

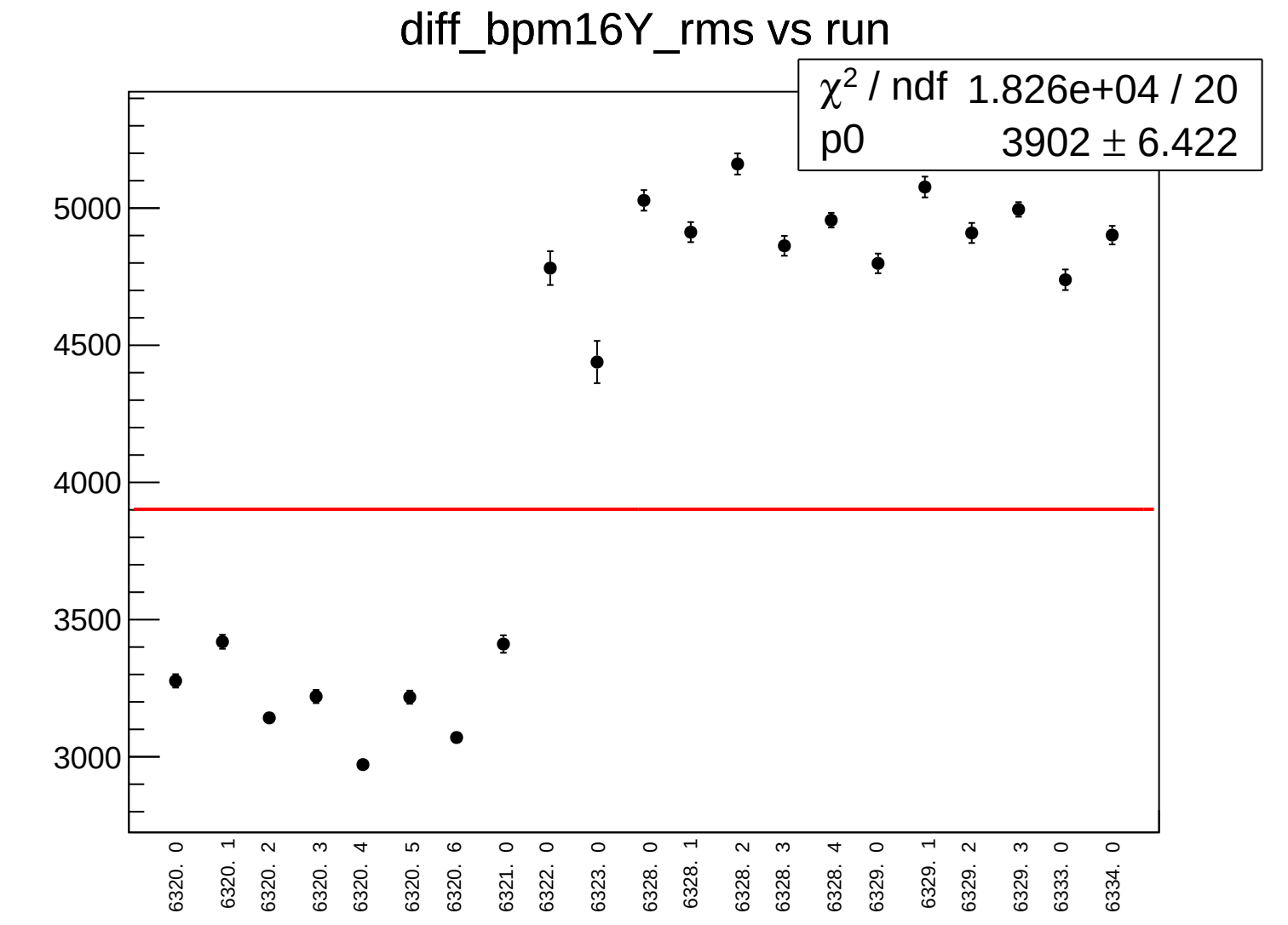

diff_bpm16X_mean vs run
χ² / ndf 27.95 / 20
p0 10.27 ± 17.97
600
400
200
0
−200
−400
−600
−800
−1000
−1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −4463
Std Dev 4468
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

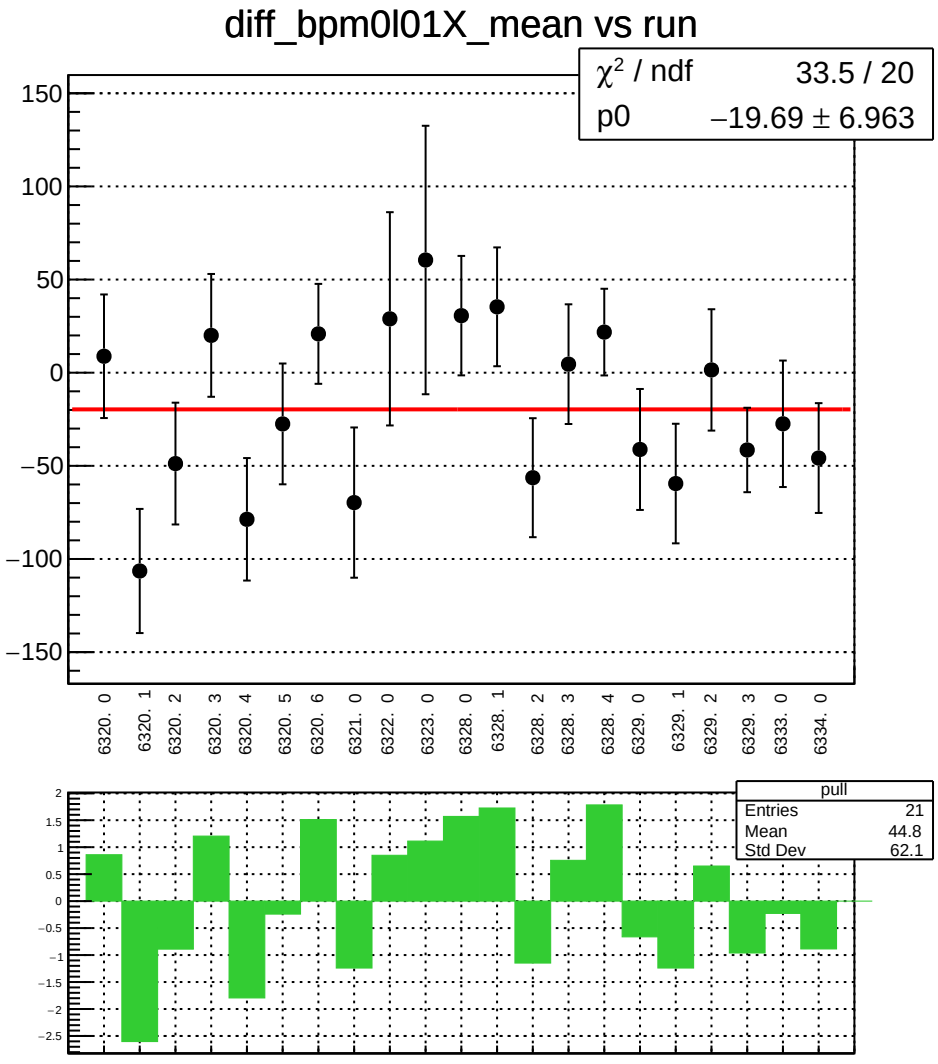

pull1D
Entries 21
Mean 0.0001272
Std Dev 1.154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

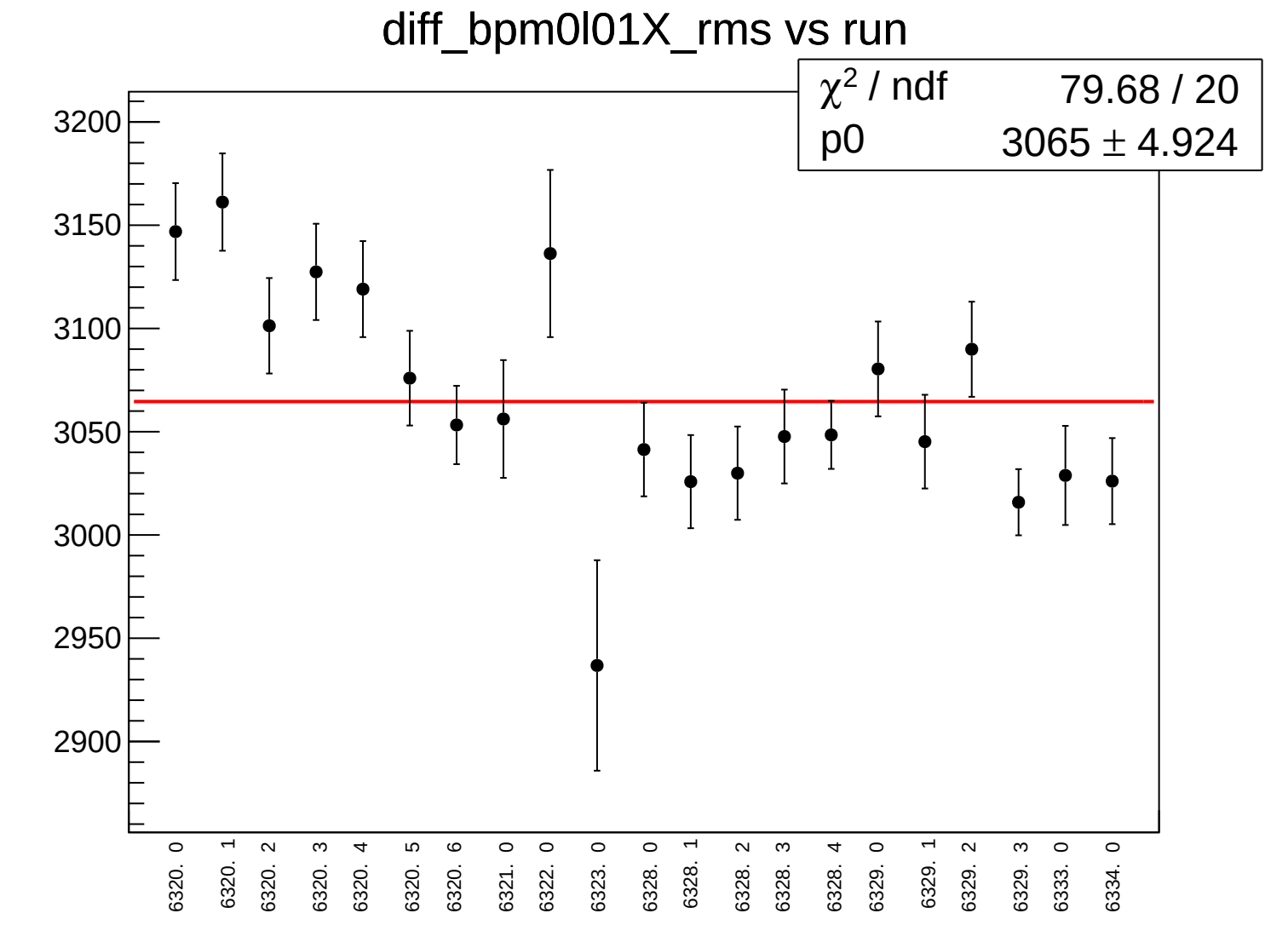

diff_bpm16X_rms vs run
χ² / ndf 3.439e+04 / 20
p0 7550 ± 12.7
18000
16000
14000
12000
10000
8000
6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

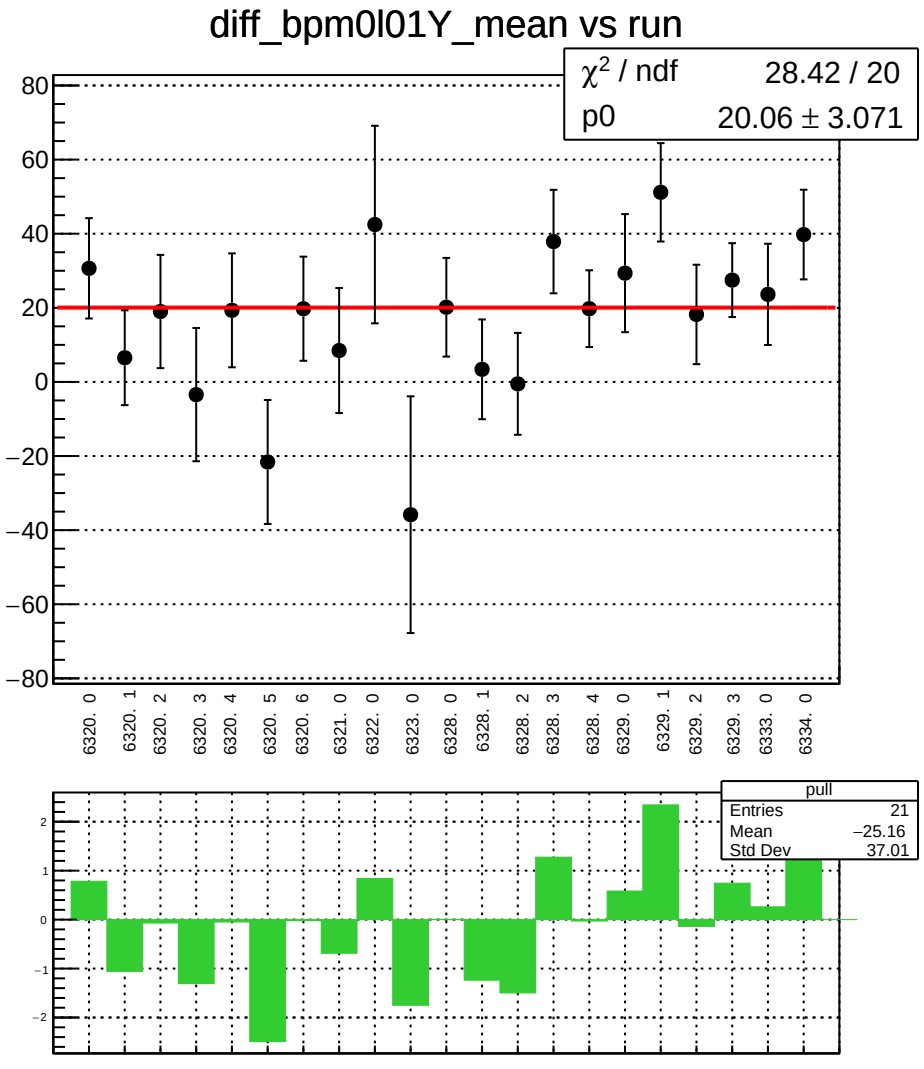

diff_bpm16Y_mean vs run
χ² / ndf 18.9 / 20
p0 −5.535 ± 9.082
150
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 18.83
Std Dev 12.9
1.5
1
0.5
0
−0.5
−1
−1.5

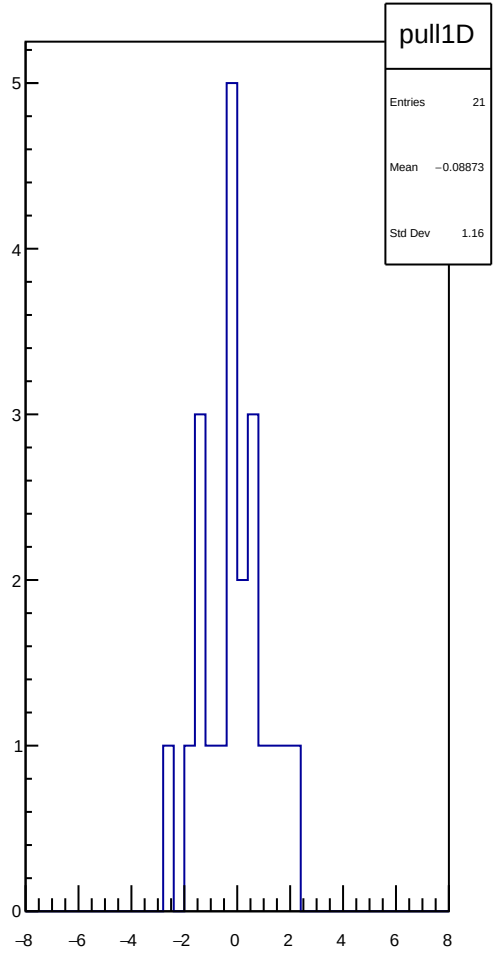

pull1D
Entries 21
Mean −0.09051
Std Dev 0.9445
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

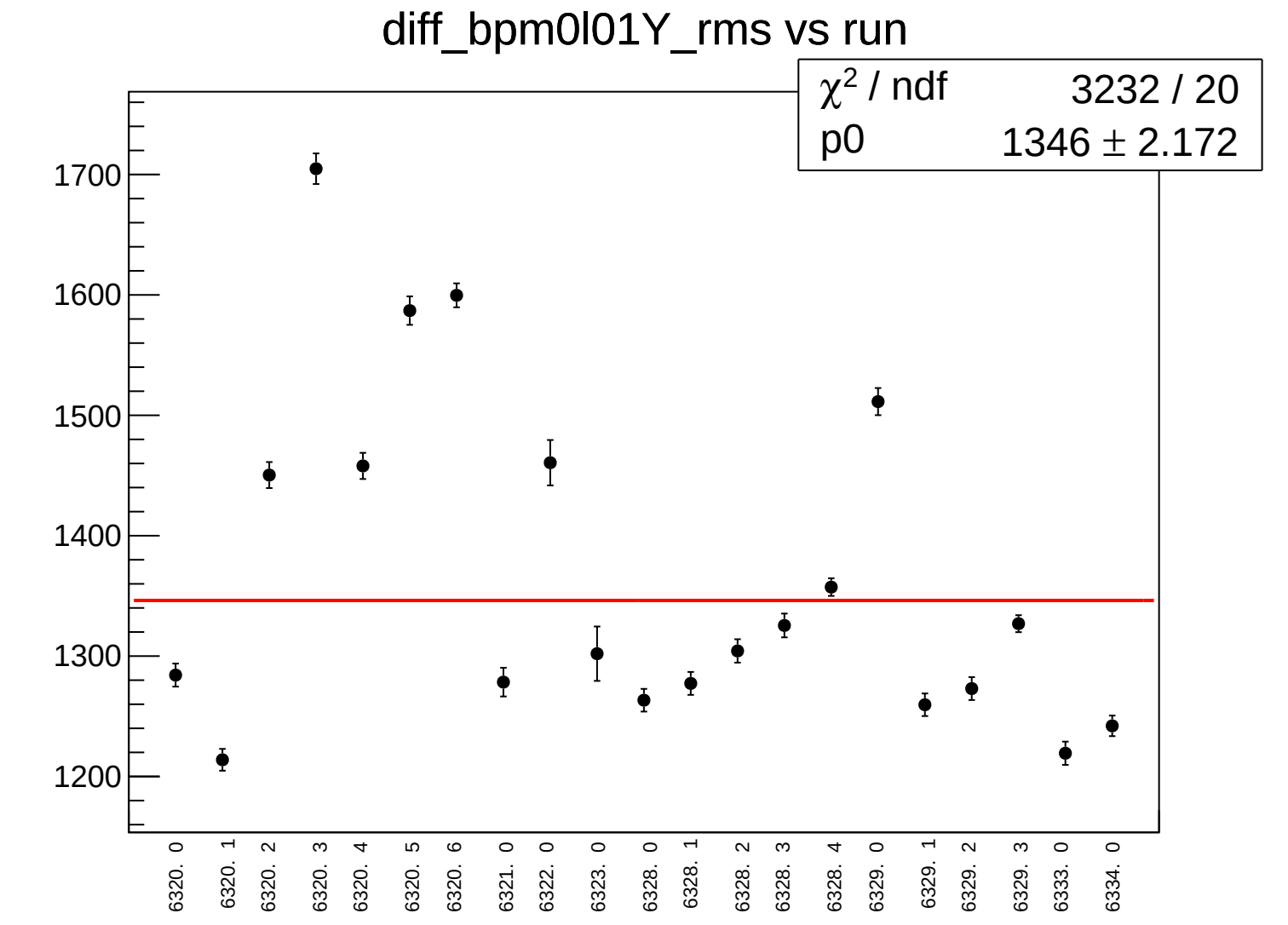

diff_bpm16Y_rms vs run
χ² / ndf 1.826e+04 / 20
p0 3902 ± 6.422
5000
4500
4000
3500
3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

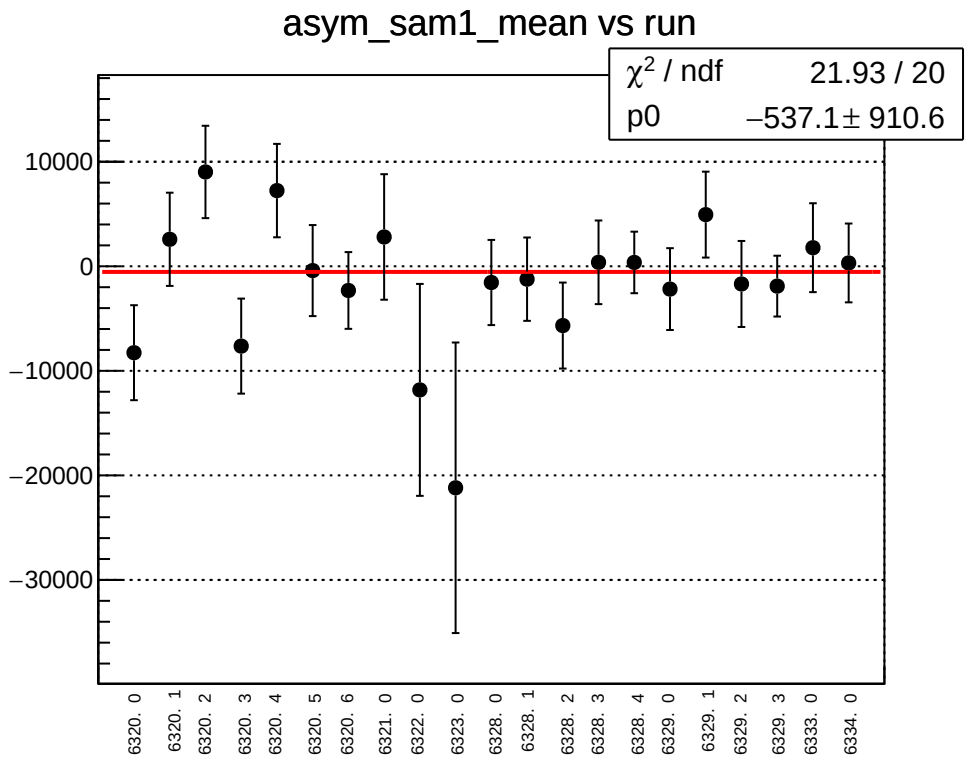

diff_bpm0l01X_mean vs run
χ² / ndf 33.5 / 20
p0 −19.69 ± 6.963
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 44.8
Std Dev 62.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean 0.006068
Std Dev 1.263
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

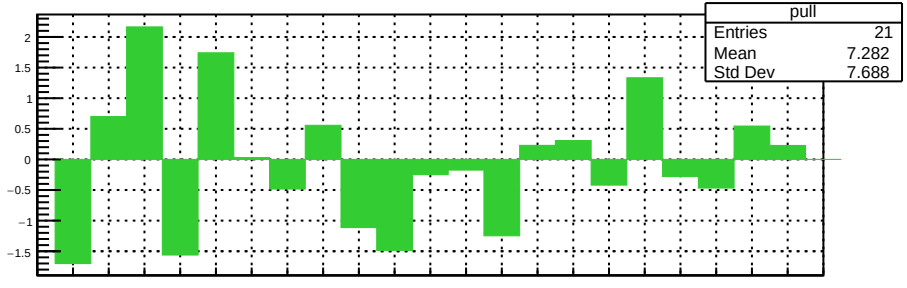

diff_bpm0l01X_rms vs run
χ² / ndf 79.68 / 20
p0 3065 ± 4.924
3200
3150
3100
3050
3000
2950
2900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

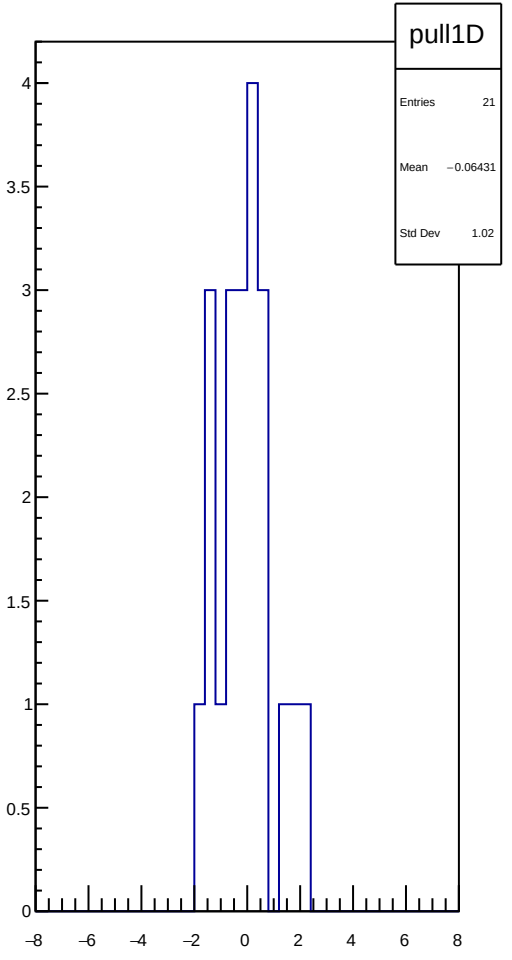

diff_bpm0l01Y_mean vs run
χ² / ndf 28.42 / 20
p0 20.06 ± 3.071
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.16
Std Dev 37.01
2
1
0
−1
−2

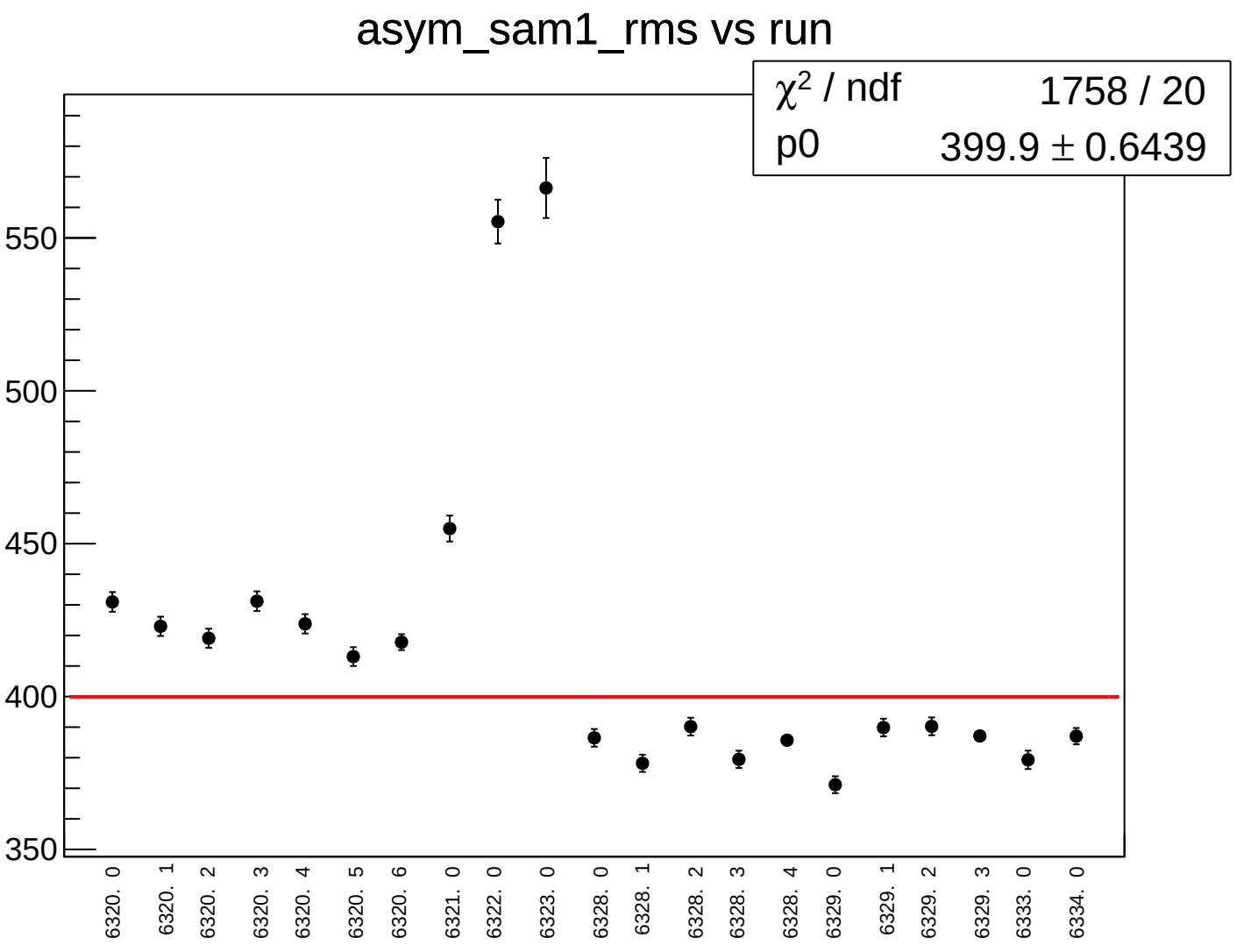

pull1D
Entries 21
Mean −0.08873
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

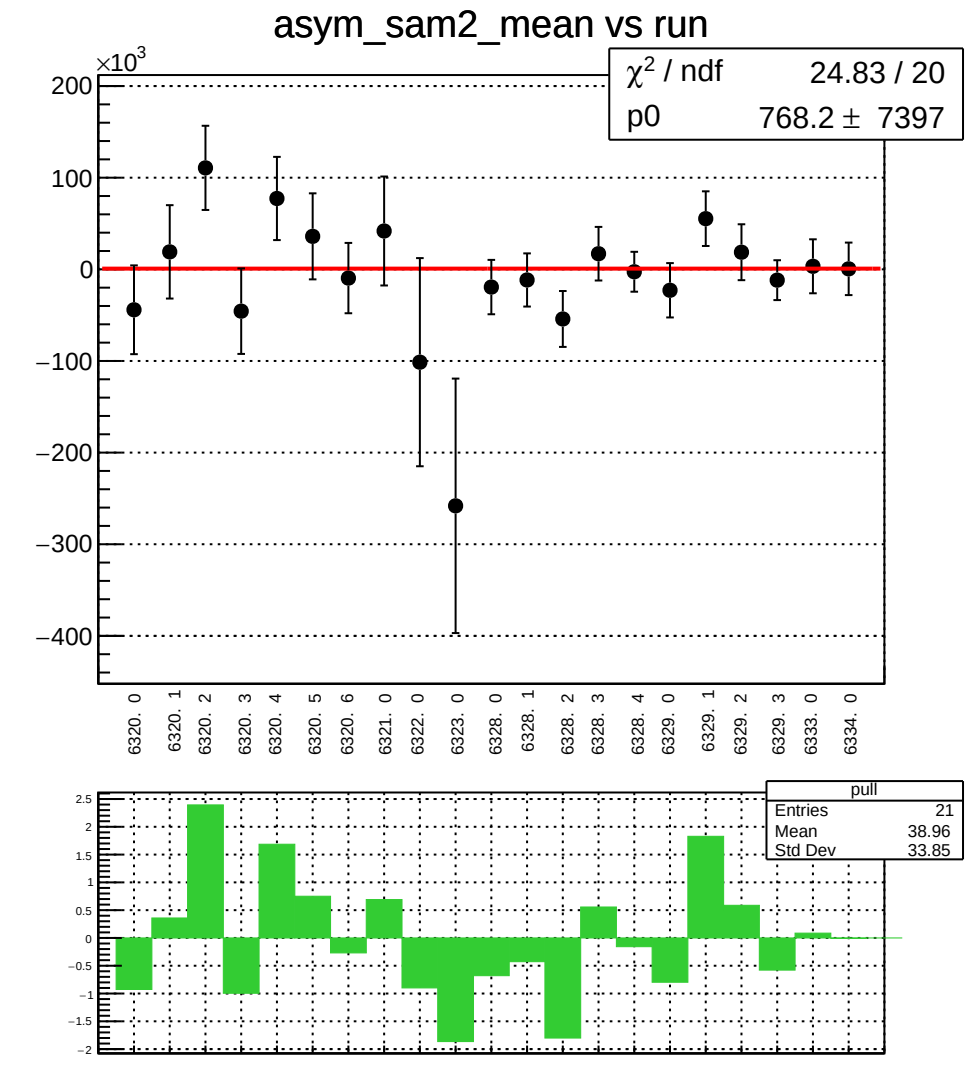

diff_bpm0l01Y_rms vs run
χ² / ndf 3232 / 20
p0 1346 ± 2.172
1700
1600
1500
1400
1300
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

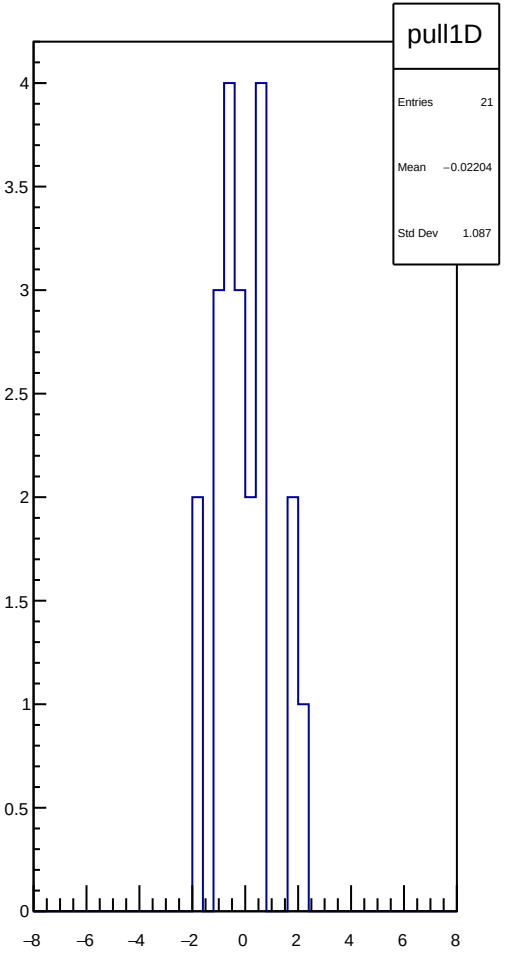

asym_sam1_mean vs run
χ² / ndf 21.93 / 20
p0 −537.1± 910.6
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

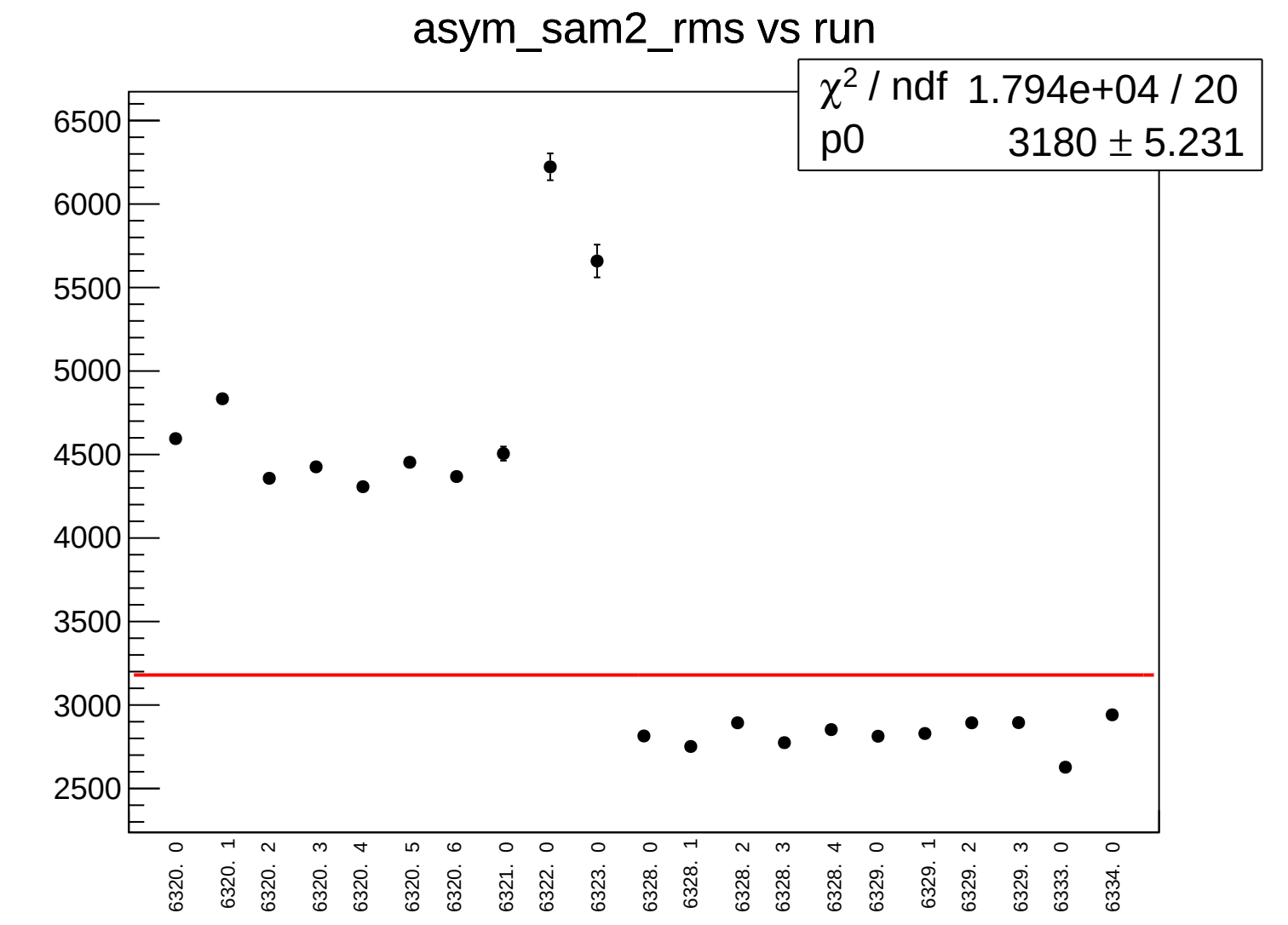

pull
Entries 21
Mean 7.282
Std Dev 7.688
2
1.5
1
0.5
0
−0.5
−1
−1.5

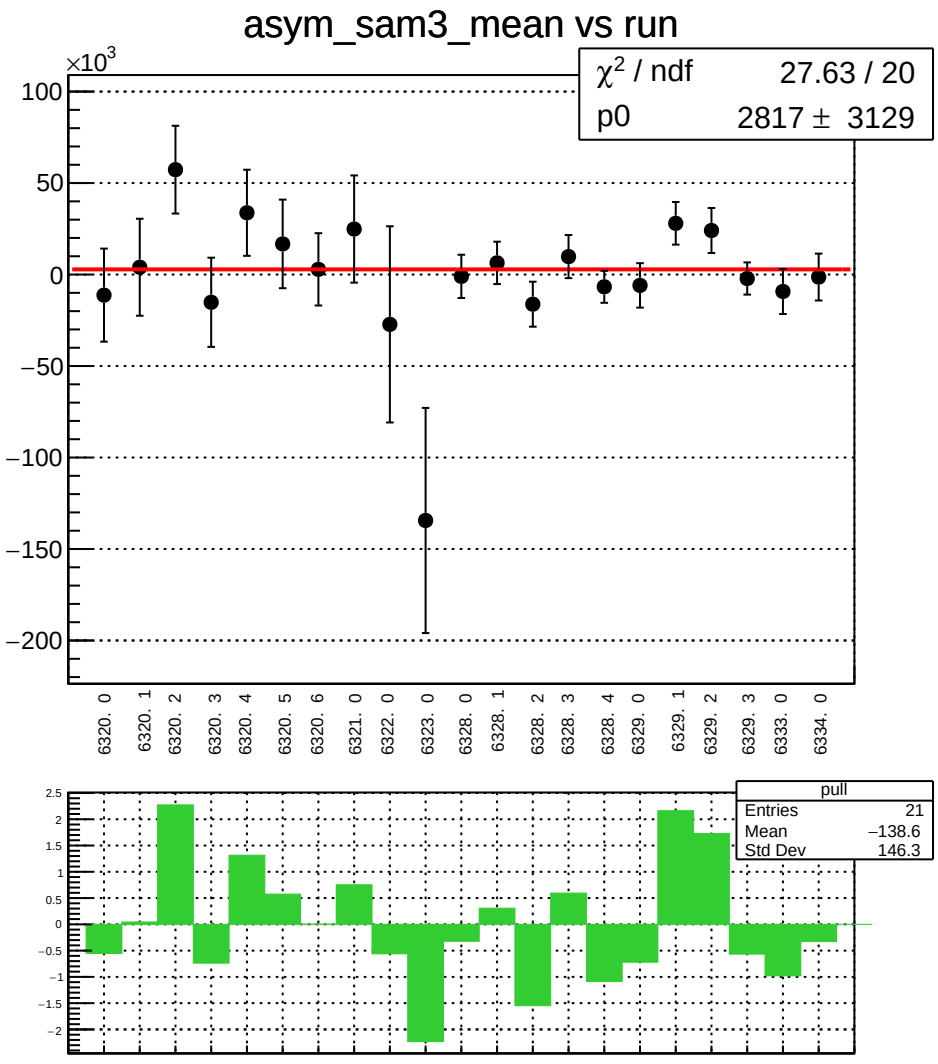

pull1D
Entries 21
Mean −0.06431
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

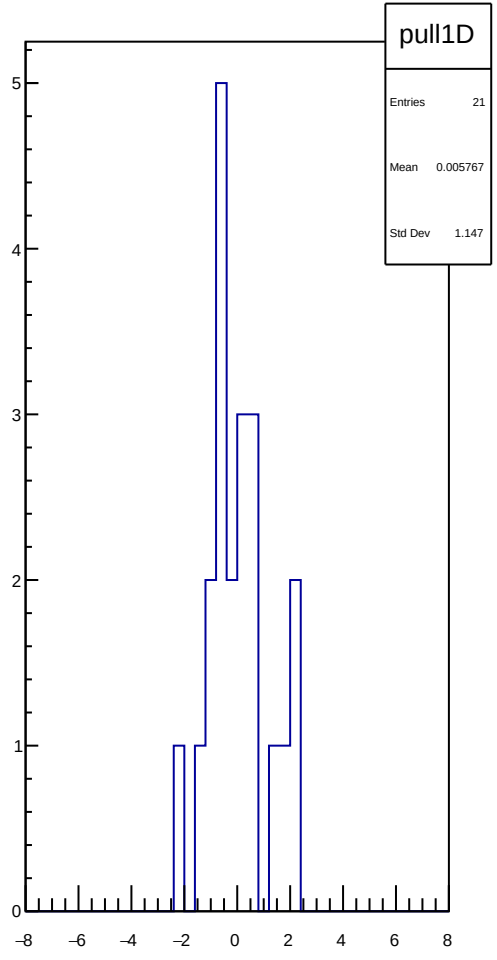

asym_sam1_rms vs run
χ² / ndf 1758 / 20
p0 399.9 ± 0.6439
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

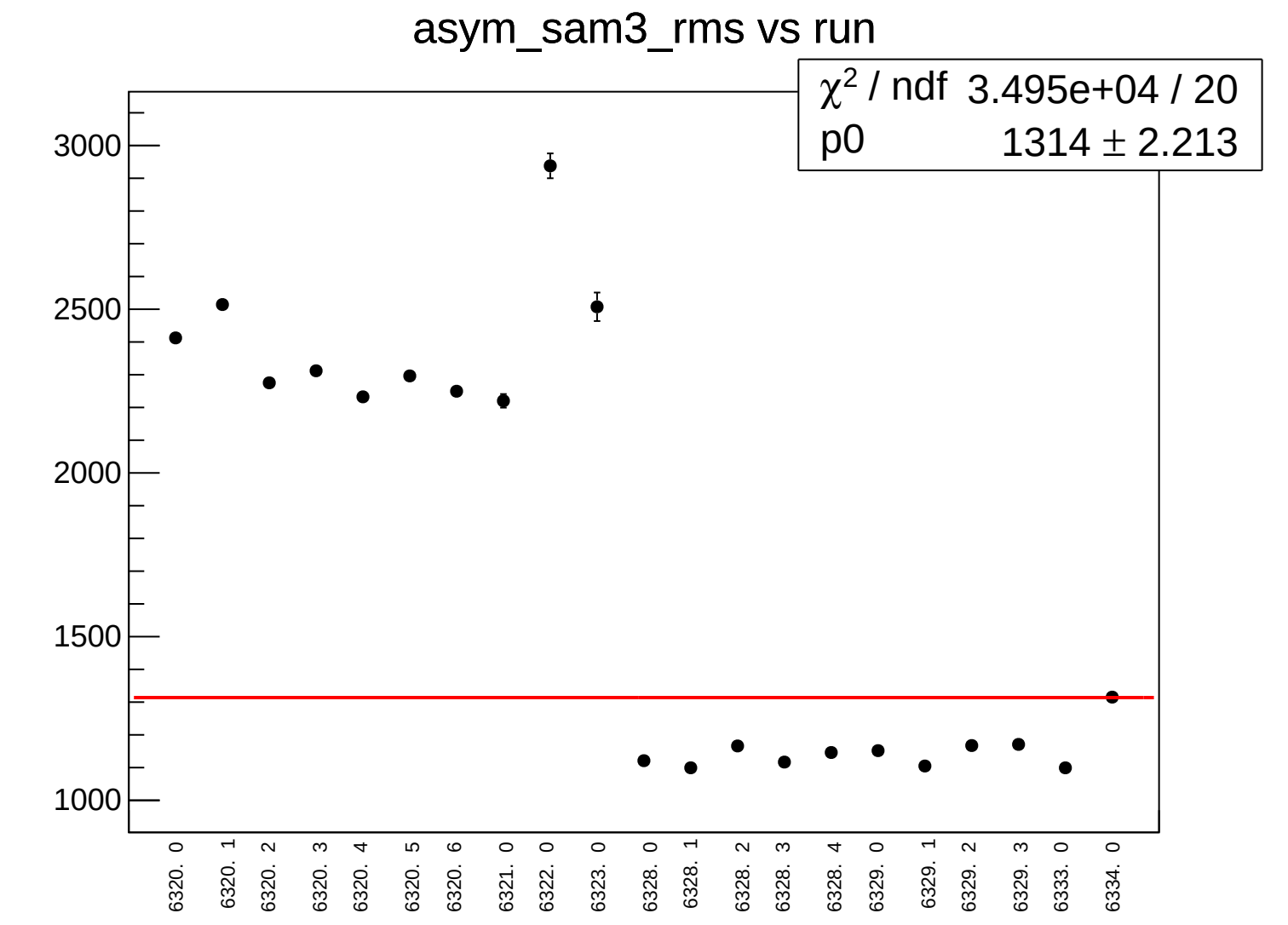

asym_sam2_mean vs run
×10^3
χ^2 / ndf 24.83 / 20
p0 768.2 ± 7397
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.96
Std Dev 33.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

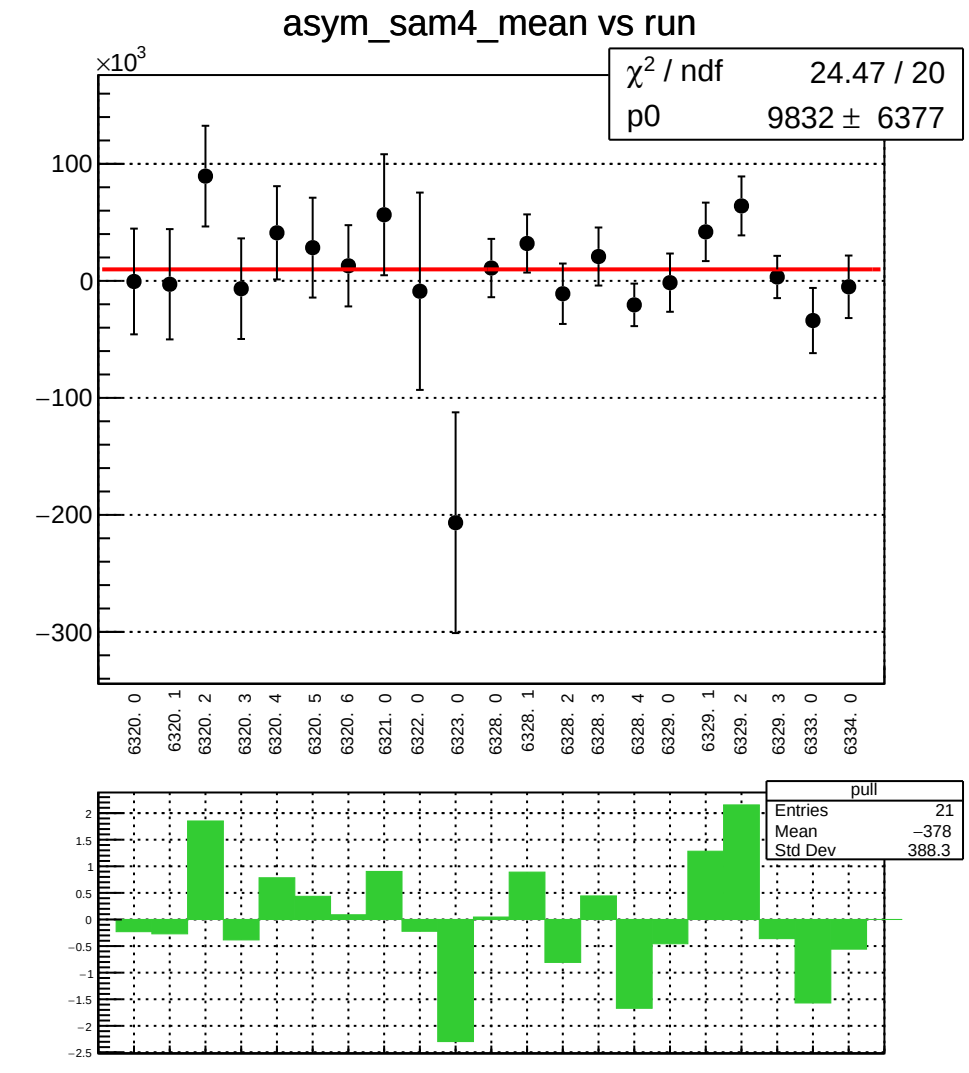

pull1D
Entries 21
Mean −0.02204
Std Dev 1.087
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

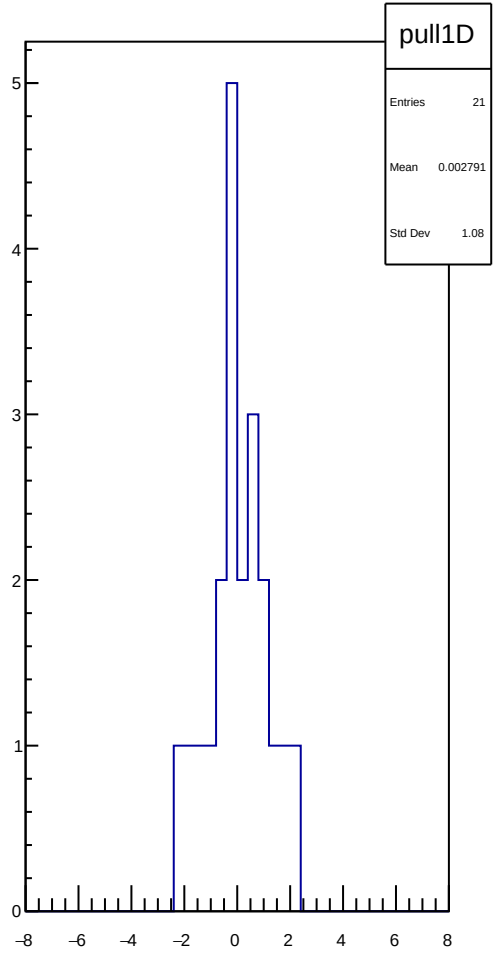

asym_sam2_rms vs run
χ² / ndf 1.794e+04 / 20
p0 3180 ± 5.231
6500
6000
5500
5000
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

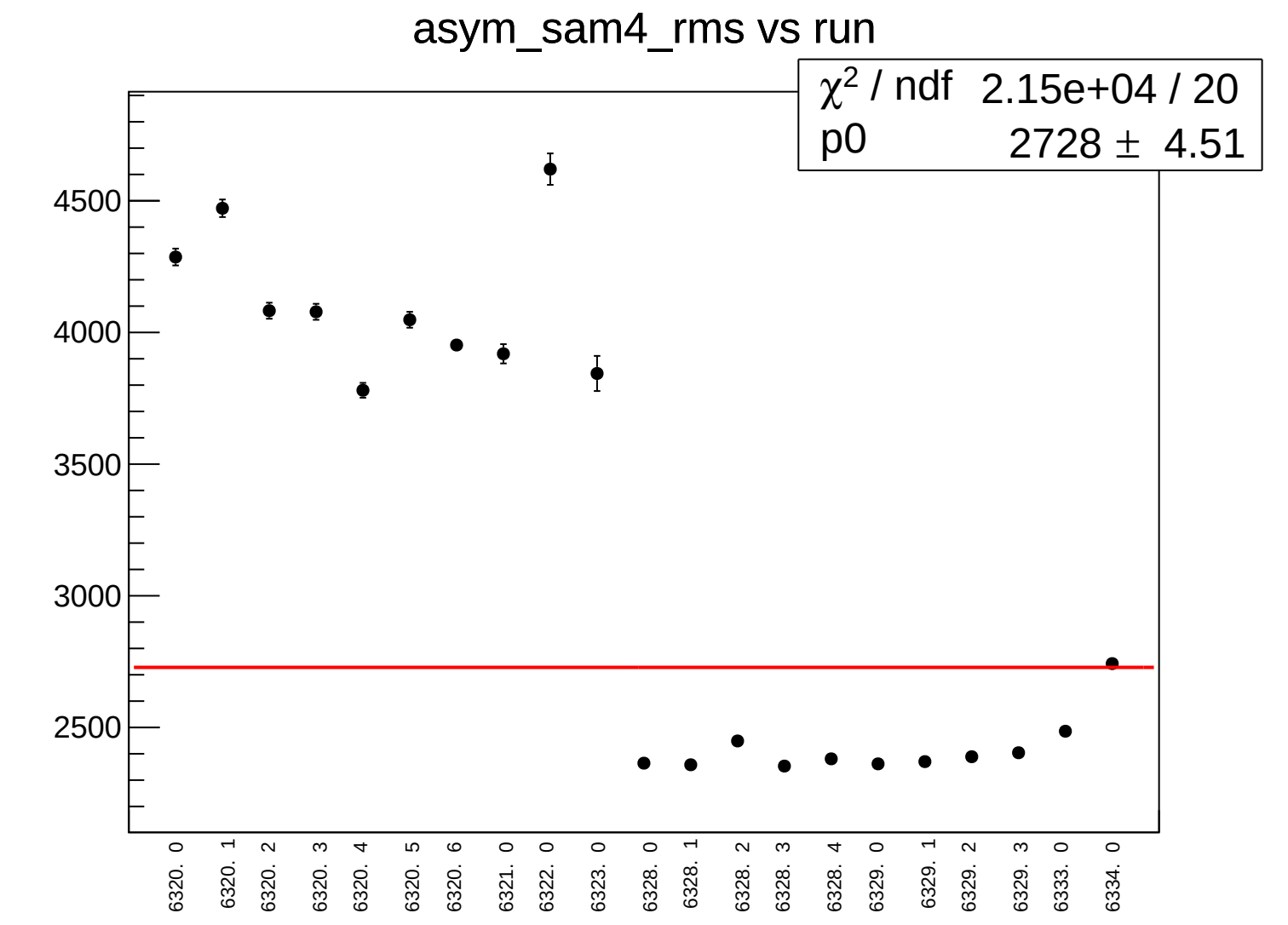

asym_sam3_mean vs run
×10^3
χ^2 / ndf 27.63 / 20
p0 2817 ± 3129
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −138.6
Std Dev 146.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

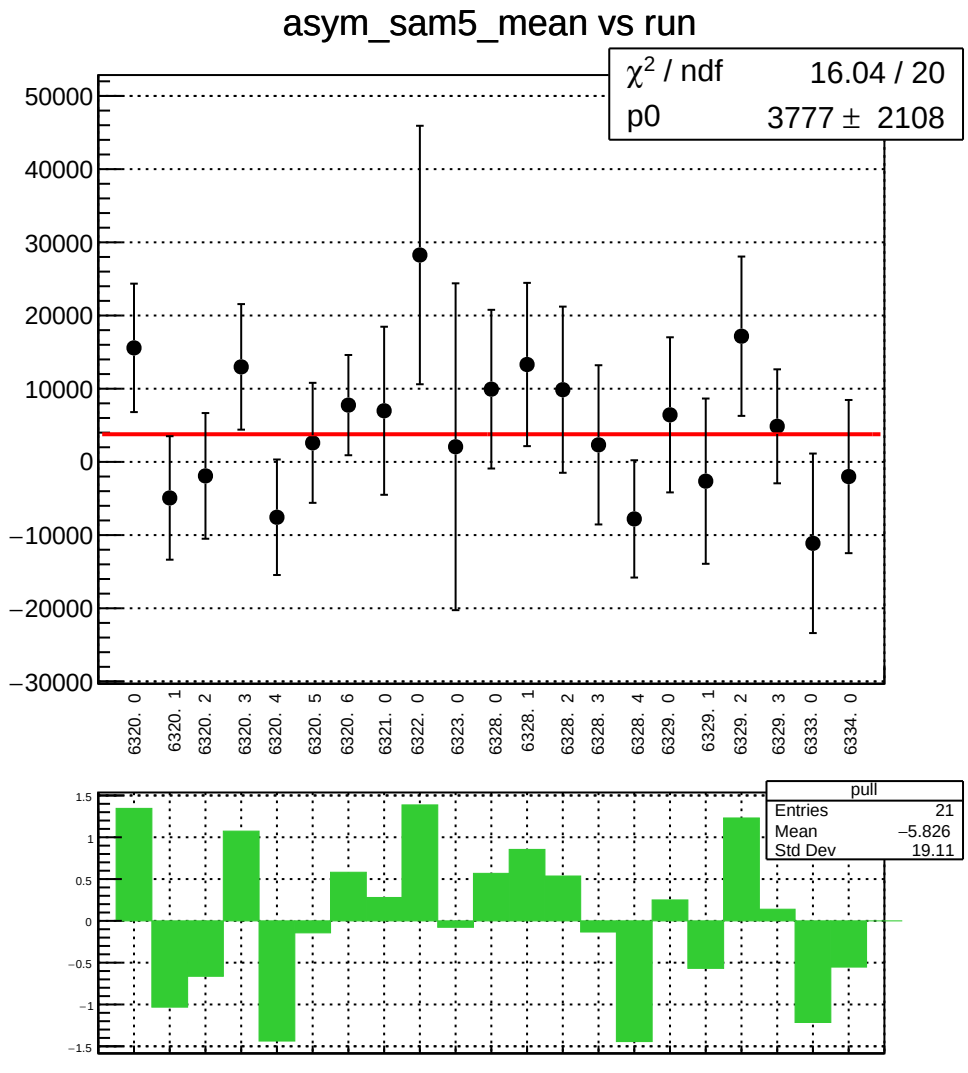

pull1D
Entries 21
Mean 0.005767
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

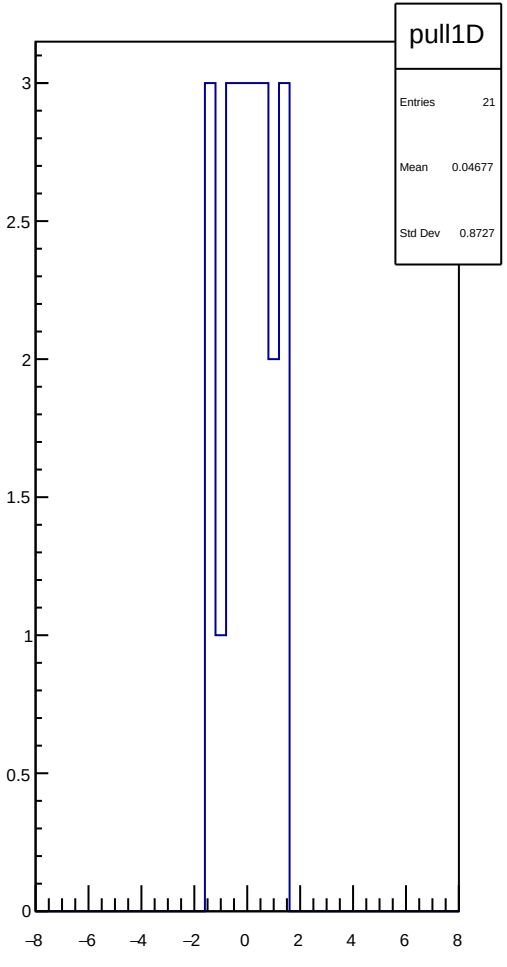

asym_sam3_rms vs run
χ² / ndf 3.495e+04 / 20
p0 1314 ± 2.213
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

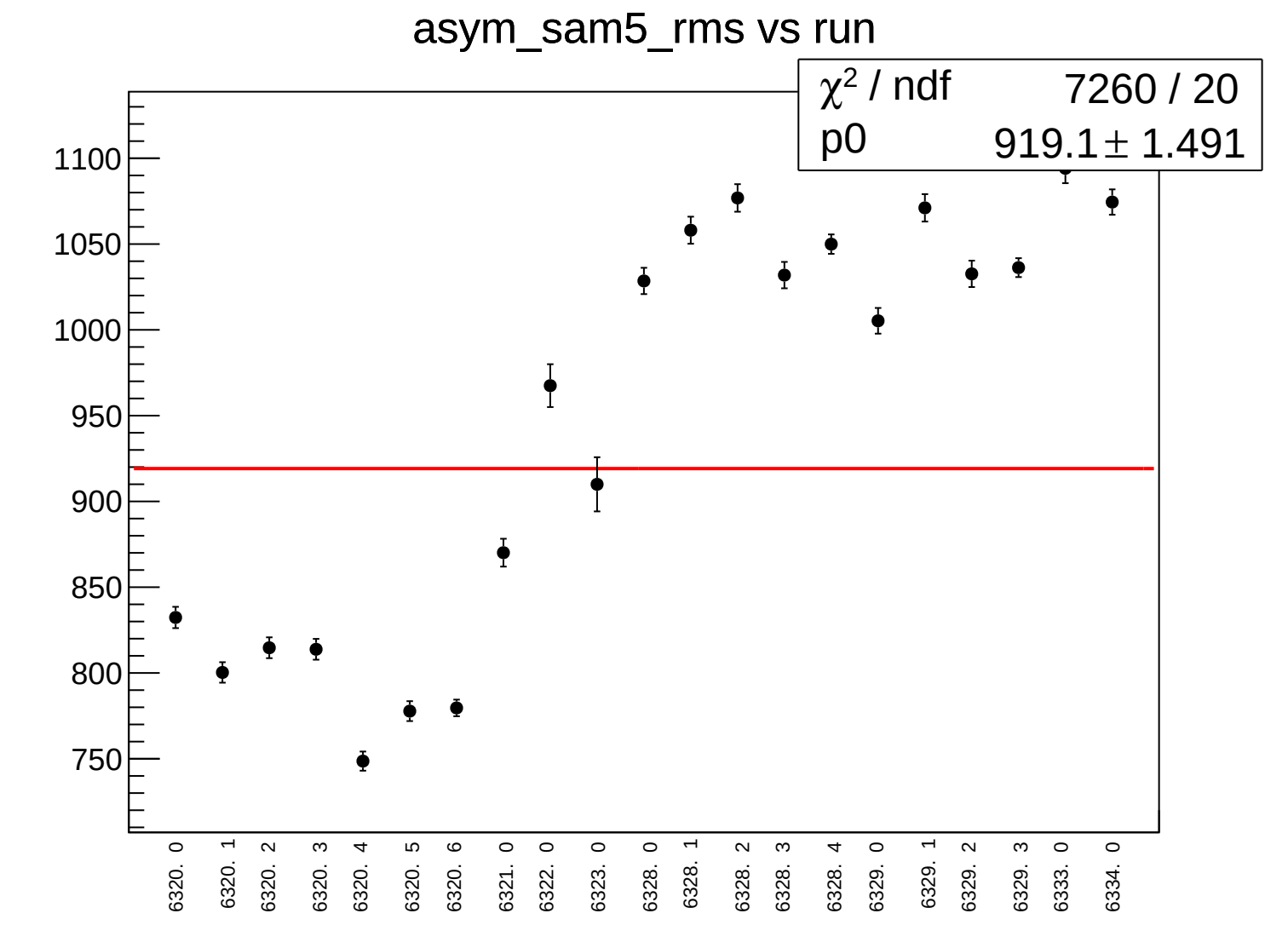

asym_sam4_mean vs run
×10^3
χ^2 / ndf 24.47 / 20
p0 9832 ± 6377
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −378
Std Dev 388.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

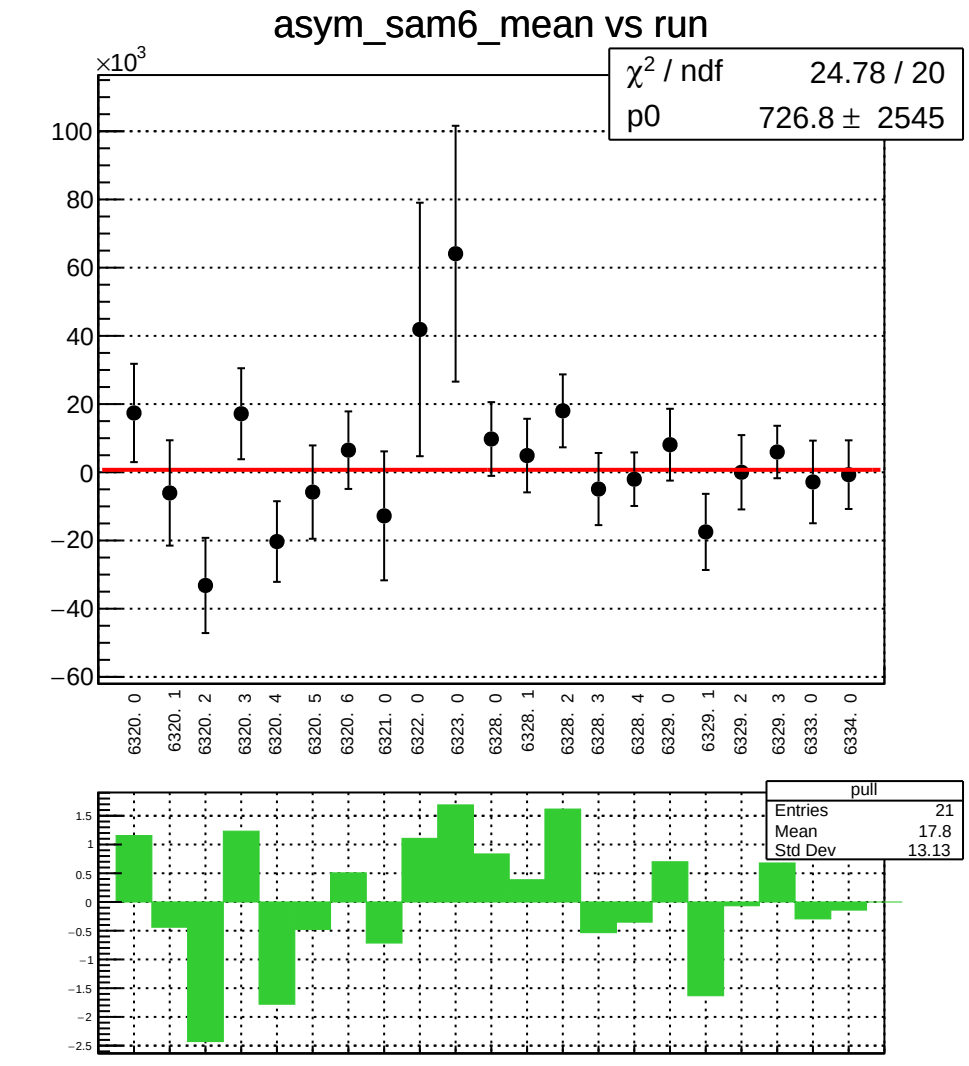

pull1D
Entries 21
Mean 0.002791
Std Dev 1.08
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

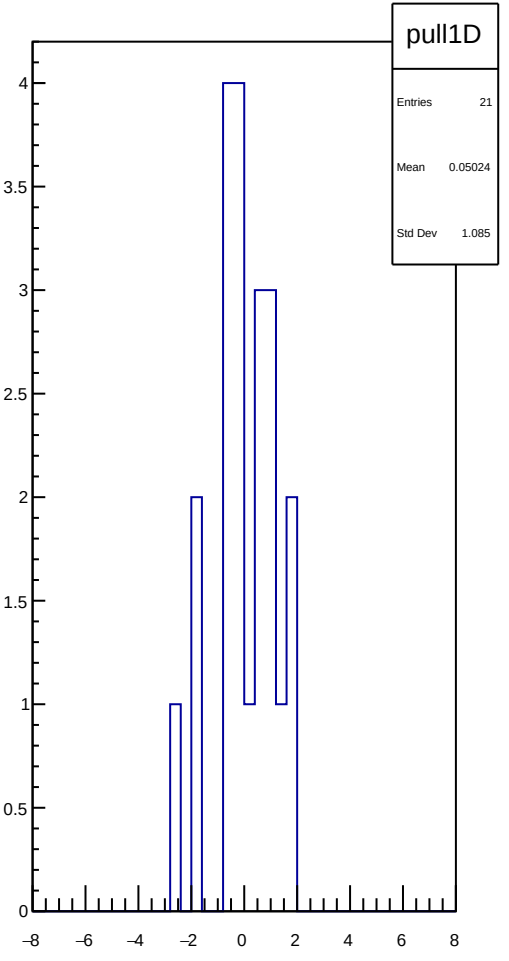

asym_sam4_rms vs run
χ² / ndf 2.15e+04 / 20
p0 2728 ± 4.51
4500
4000
3500
3000
2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

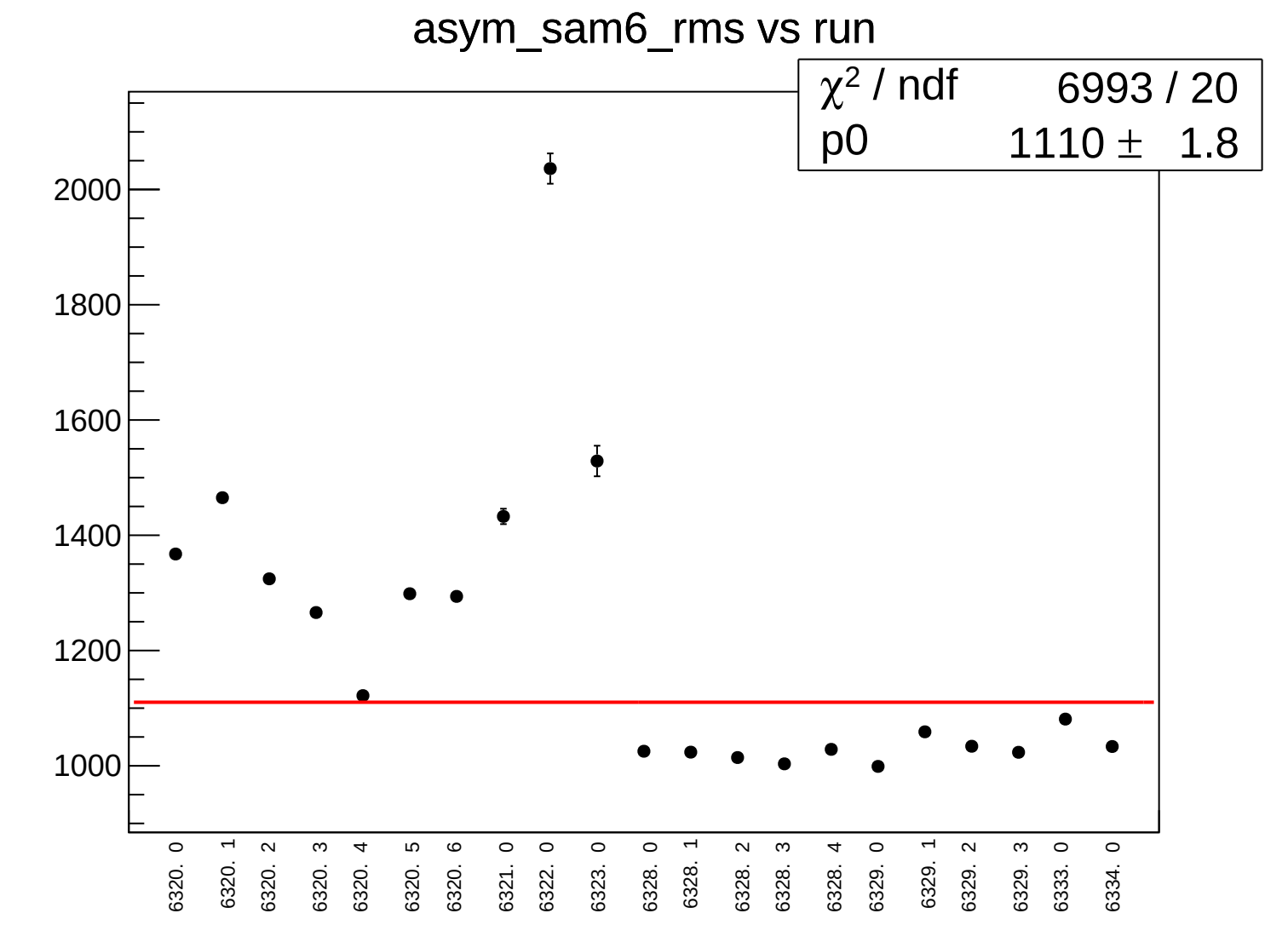

asym_sam5_mean vs run
χ² / ndf 16.04 / 20
p0 3777 ± 2108
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.826
Std Dev 19.11
1.5
1
0.5
0
−0.5
−1
−1.5

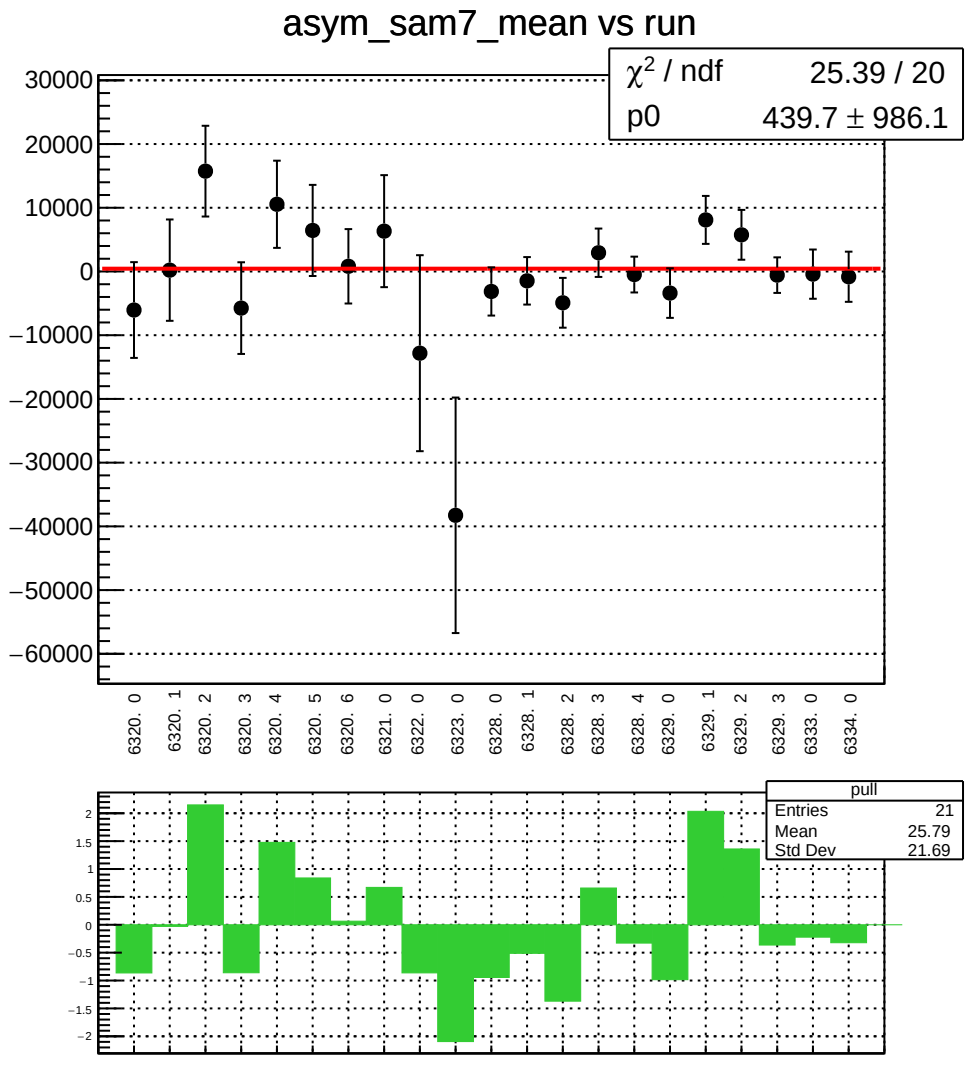

pull1D
Entries 21
Mean 0.04677
Std Dev 0.8727
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

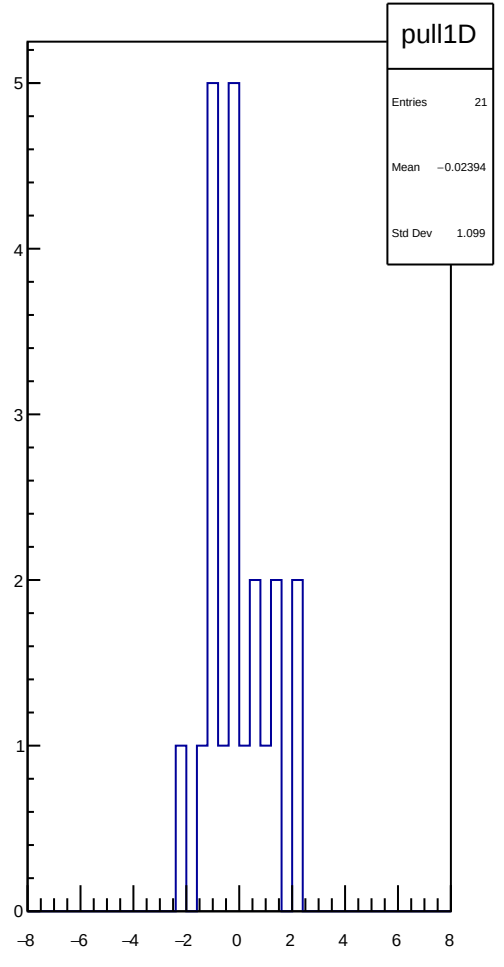

asym_sam5_rms vs run
χ² / ndf 7260 / 20
p0 919.1 ± 1.491
1100
1050
1000
950
900
850
800
750
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

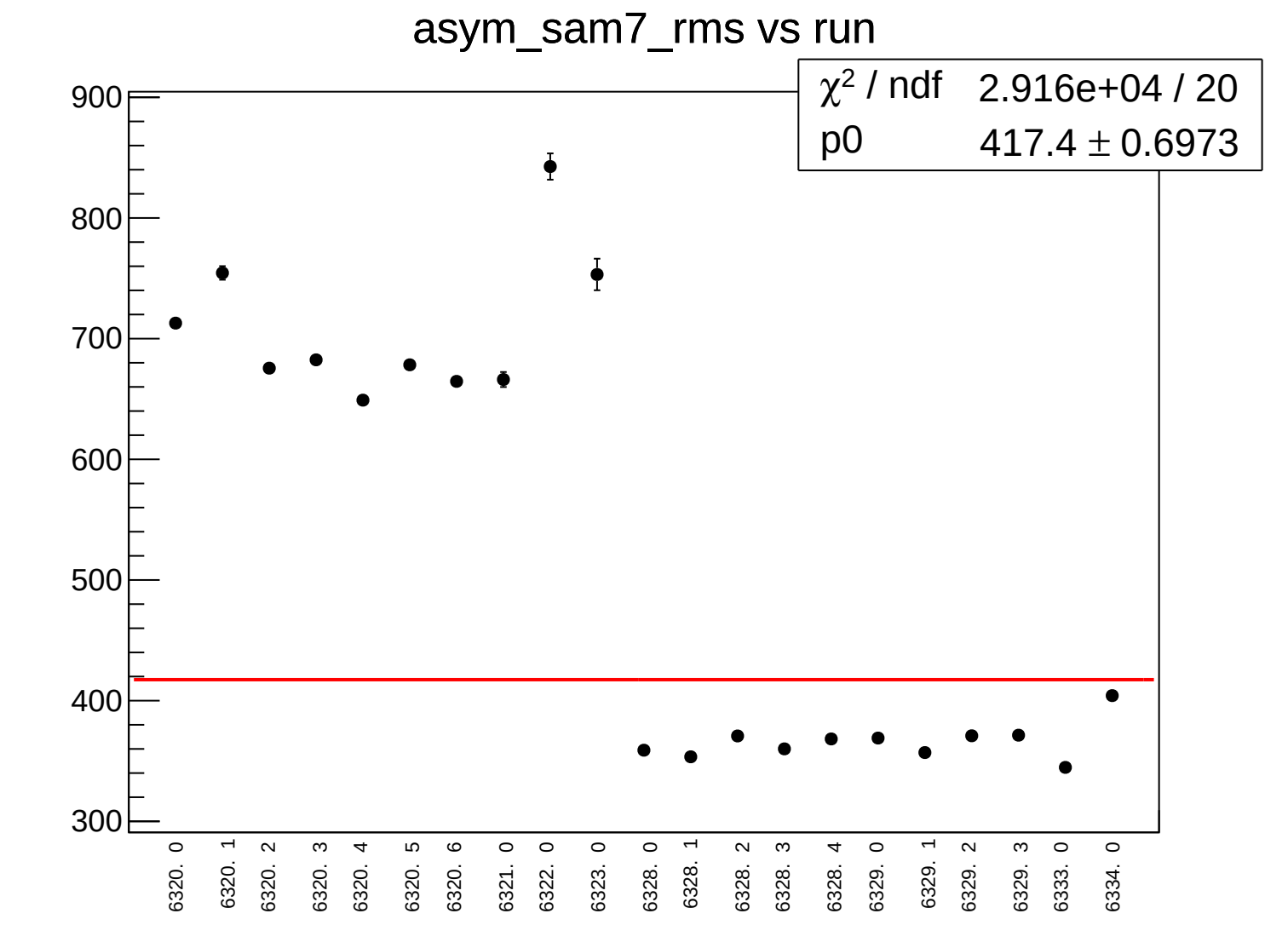

asym_sam6_mean vs run
×10^3
χ^2 / ndf 24.78 / 20
p0 726.8 ± 2545
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.8
Std Dev 13.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

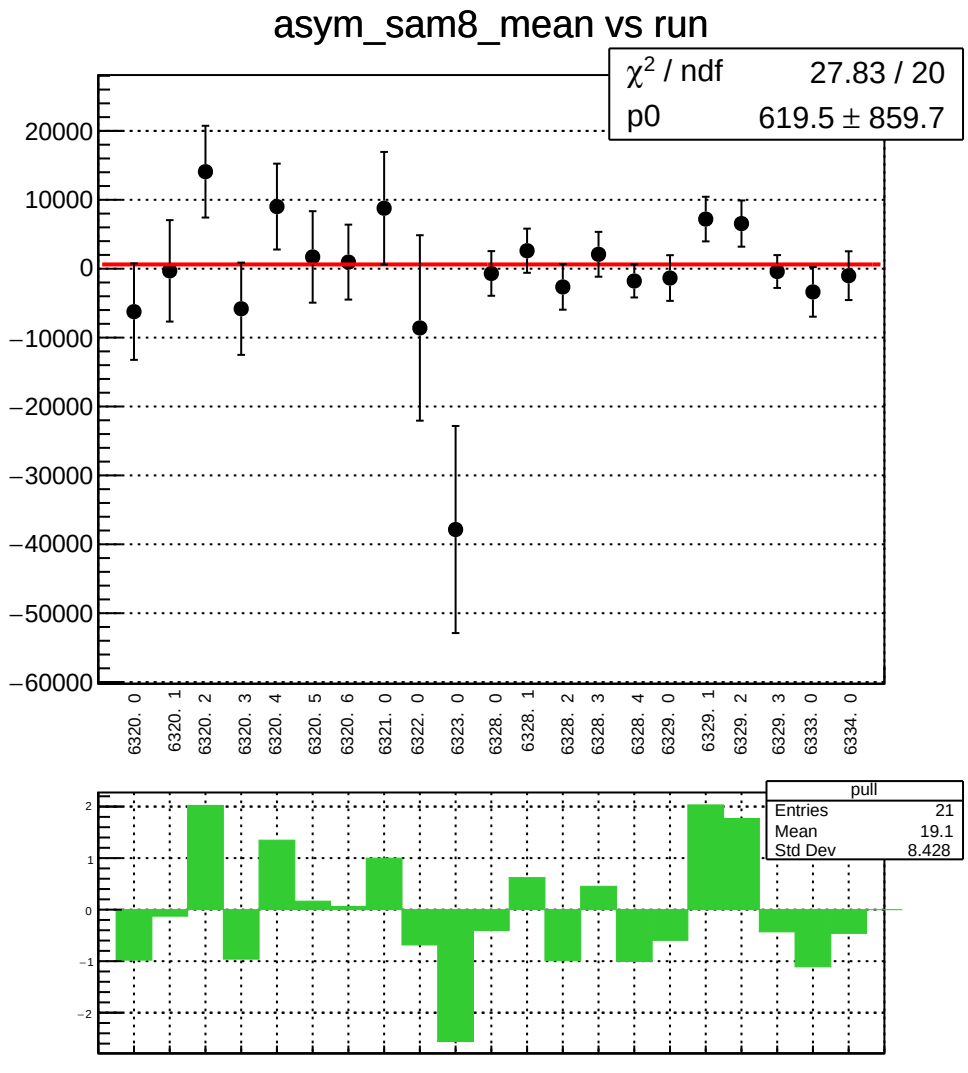

pull1D
Entries 21
Mean 0.05024
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

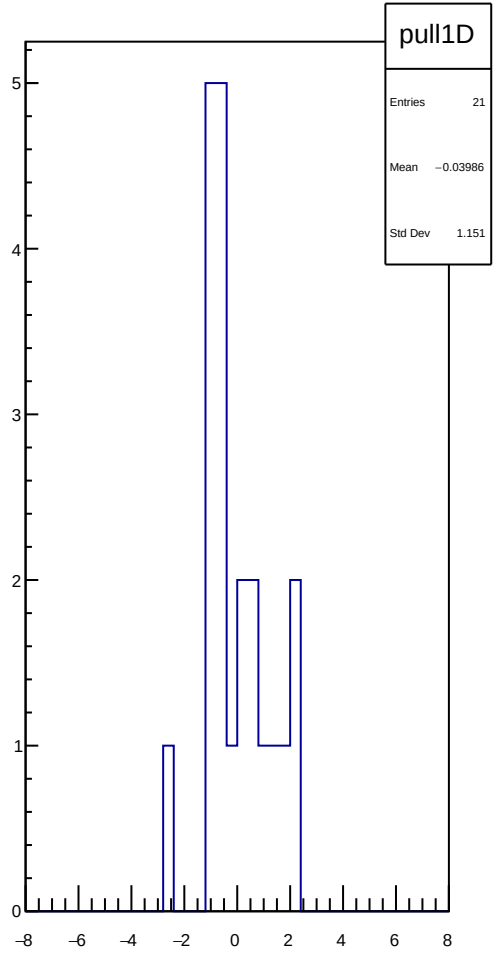

asym_sam6_rms vs run
χ² / ndf 6993 / 20
p0 1110 ± 1.8
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

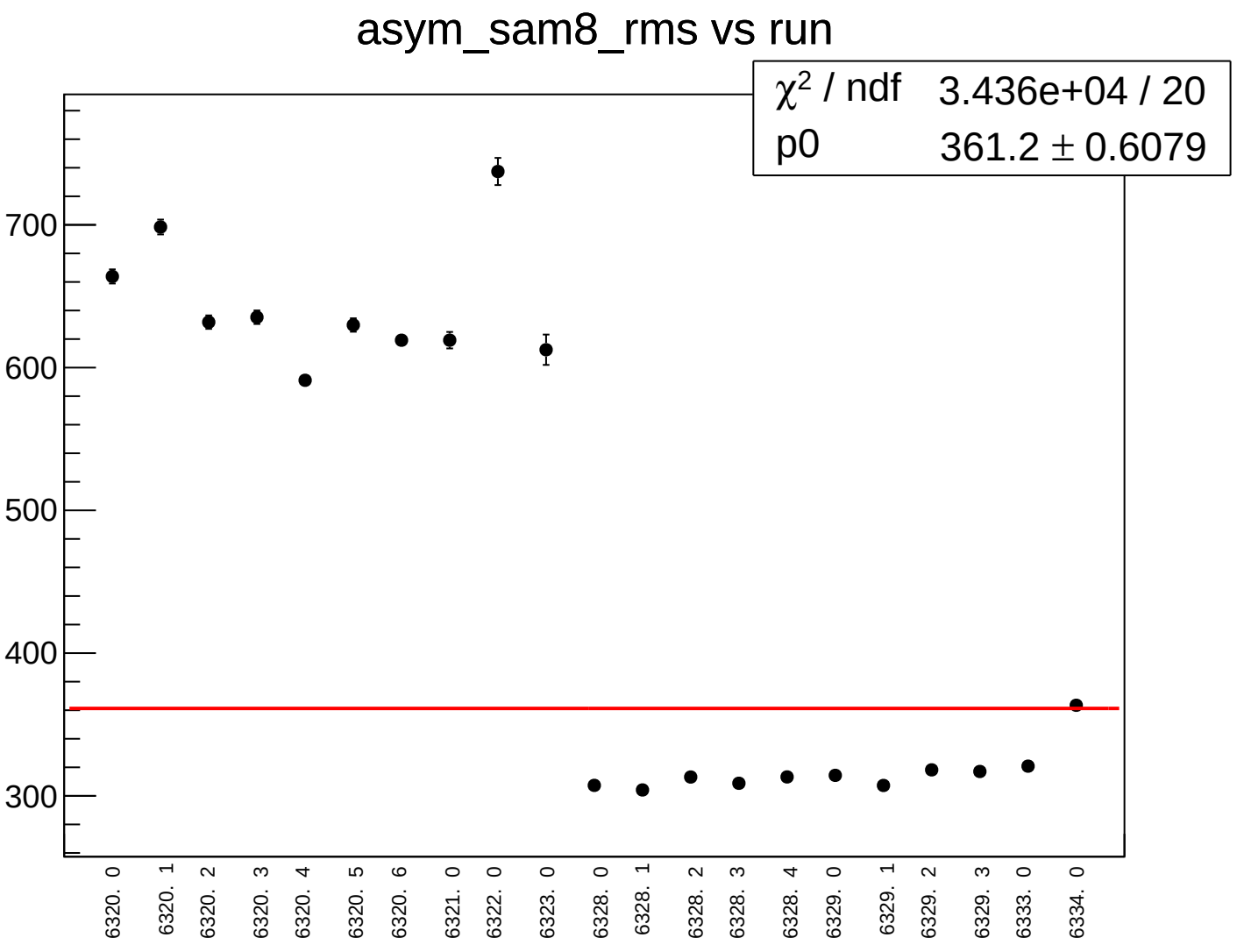

asym_sam7_mean vs run
χ² / ndf 25.39 / 20
p0 439.7 ± 986.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.79
Std Dev 21.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

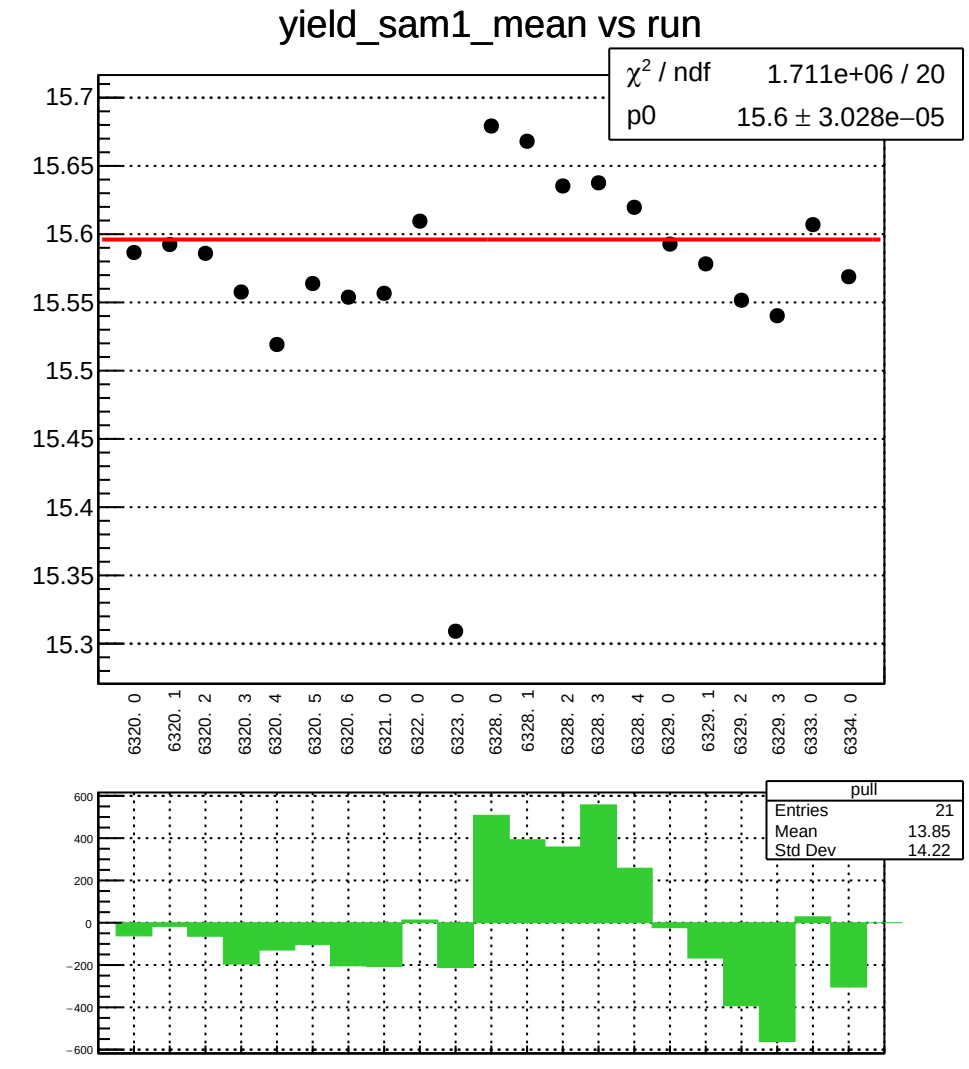

pull1D
Entries 21
Mean −0.02394
Std Dev 1.099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

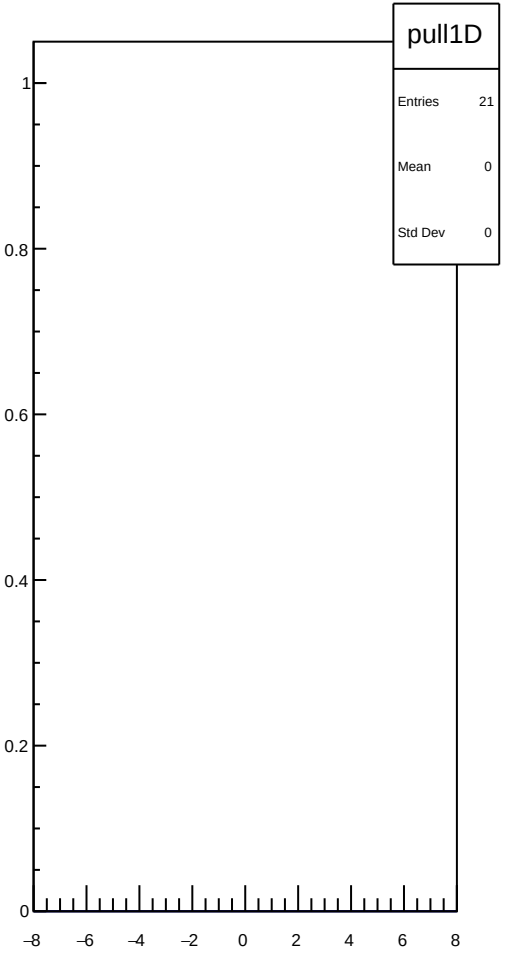

asym_sam7_rms vs run
χ² / ndf 2.916e+04 / 20
p0 417.4 ± 0.6973
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

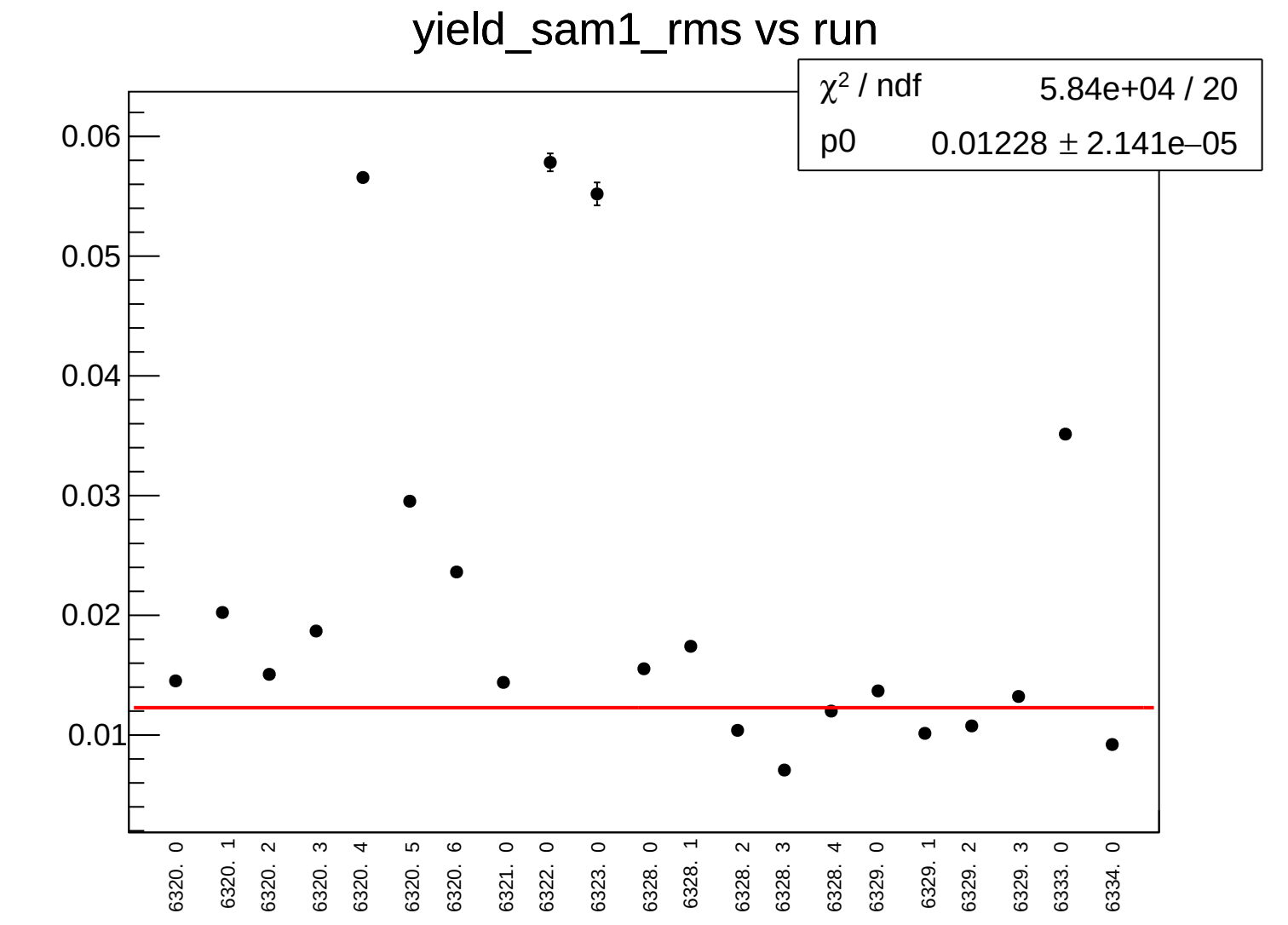

asym_sam8_mean vs run
χ² / ndf 27.83 / 20
p0 619.5 ± 859.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 19.1
Std Dev 8.428
2
1
0
−1
−2

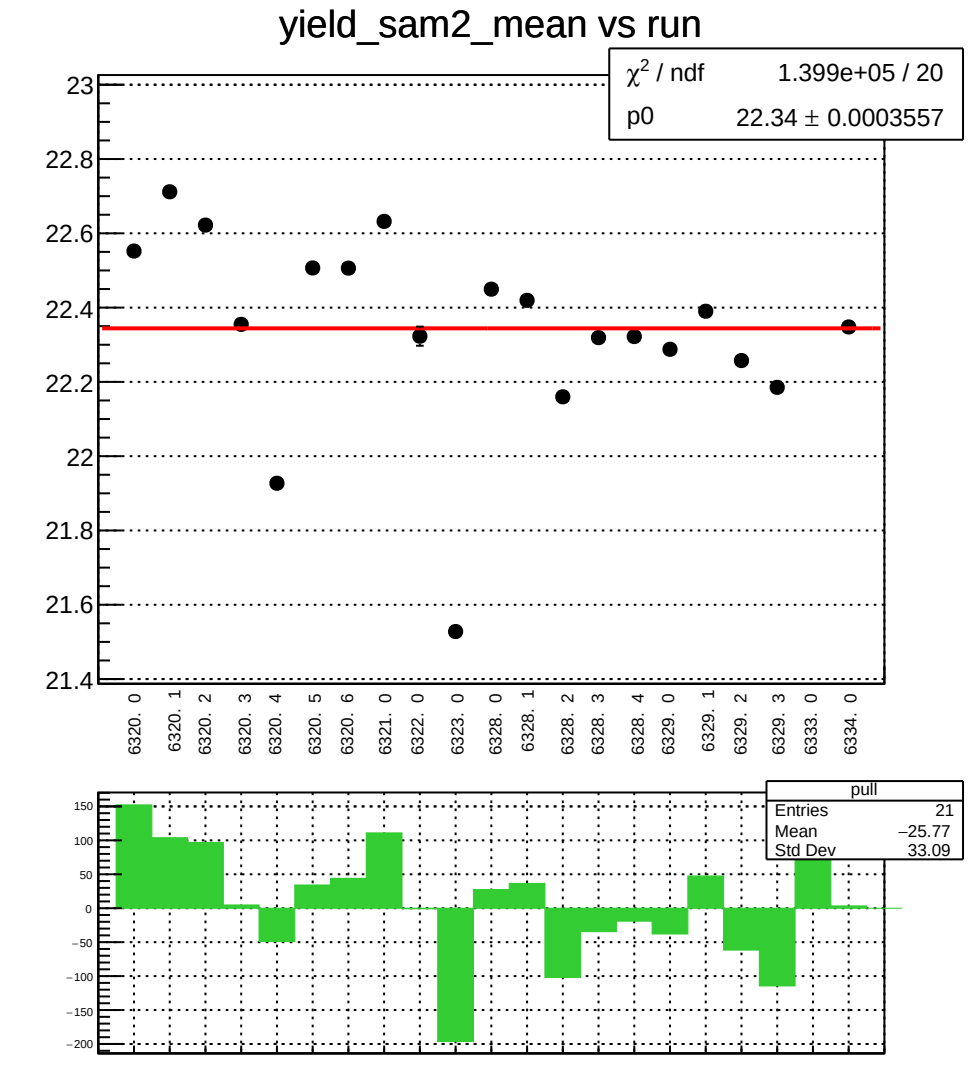

pull1D
Entries 21
Mean −0.03986
Std Dev 1.151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

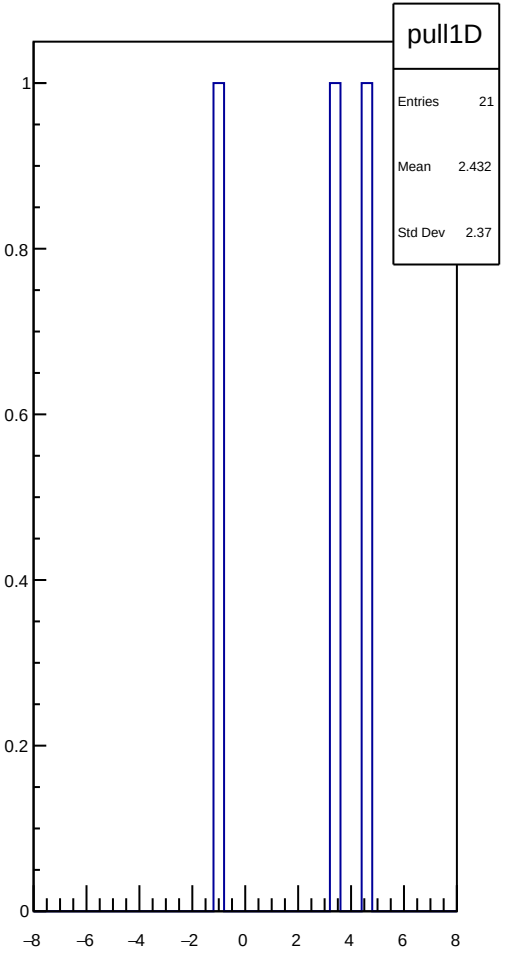

asym_sam8_rms vs run
χ² / ndf 3.436e+04 / 20
p0 361.2 ± 0.6079
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

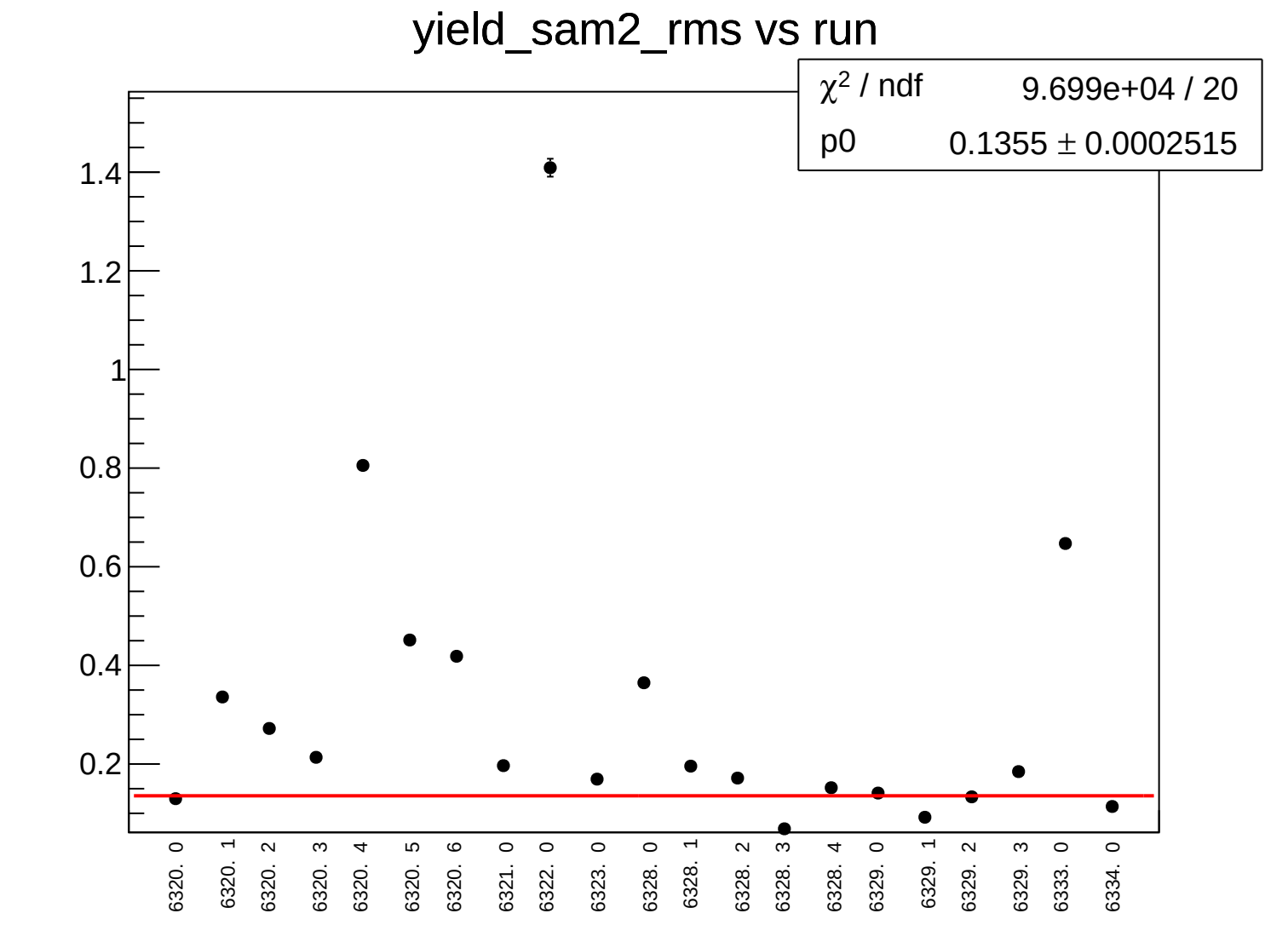

yield_sam1_mean vs run
χ² / ndf 1.711e+06 / 20
p0 15.6 ± 3.028e−05
15.7
15.65
15.6
15.55
15.5
15.45
15.4
15.35
15.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.85
Std Dev 14.22
600
400
200
0
−200
−400
−600

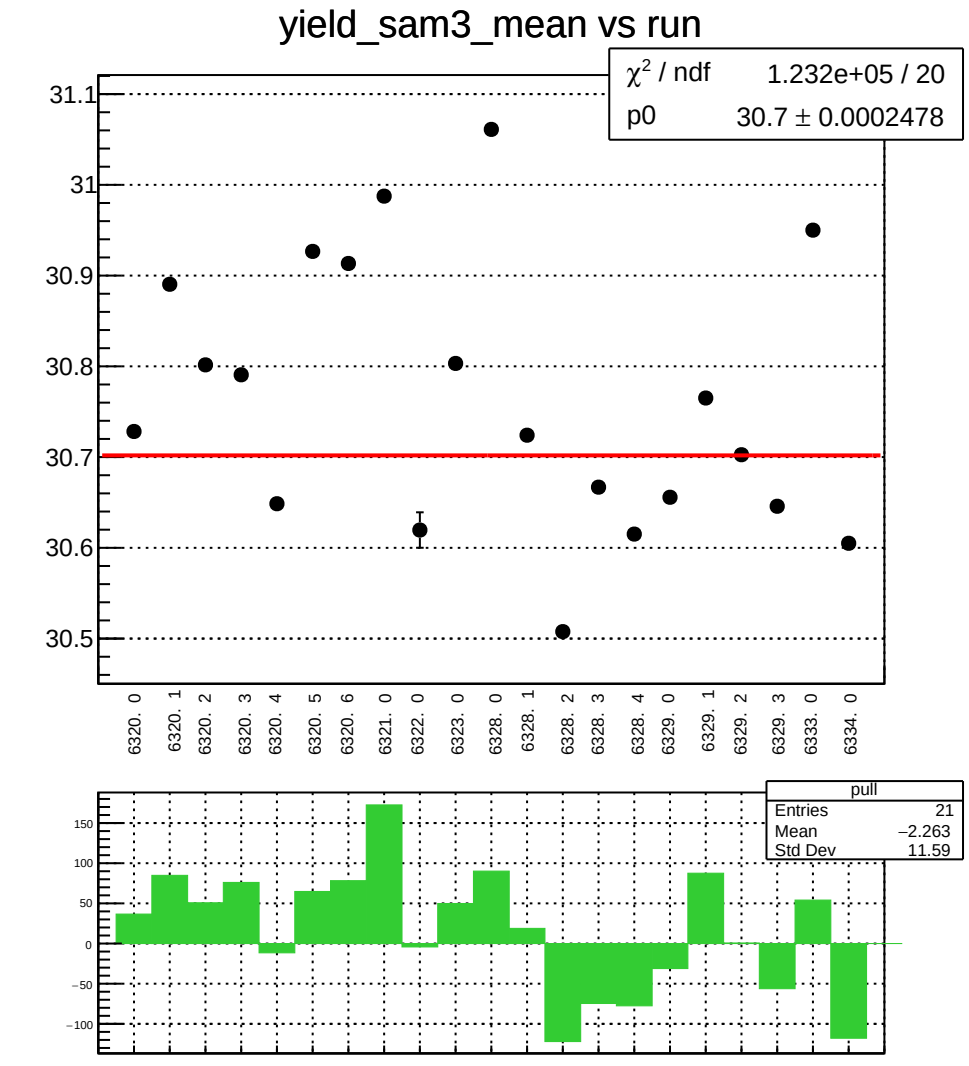

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

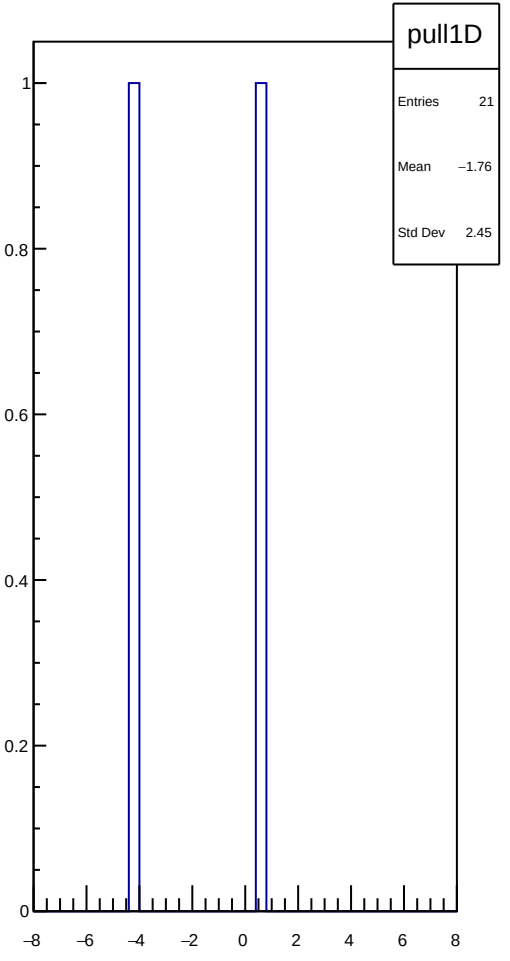

yield_sam1_rms vs run
χ² / ndf 5.84e+04 / 20
p0 0.01228 ± 2.141e–05
0.06
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

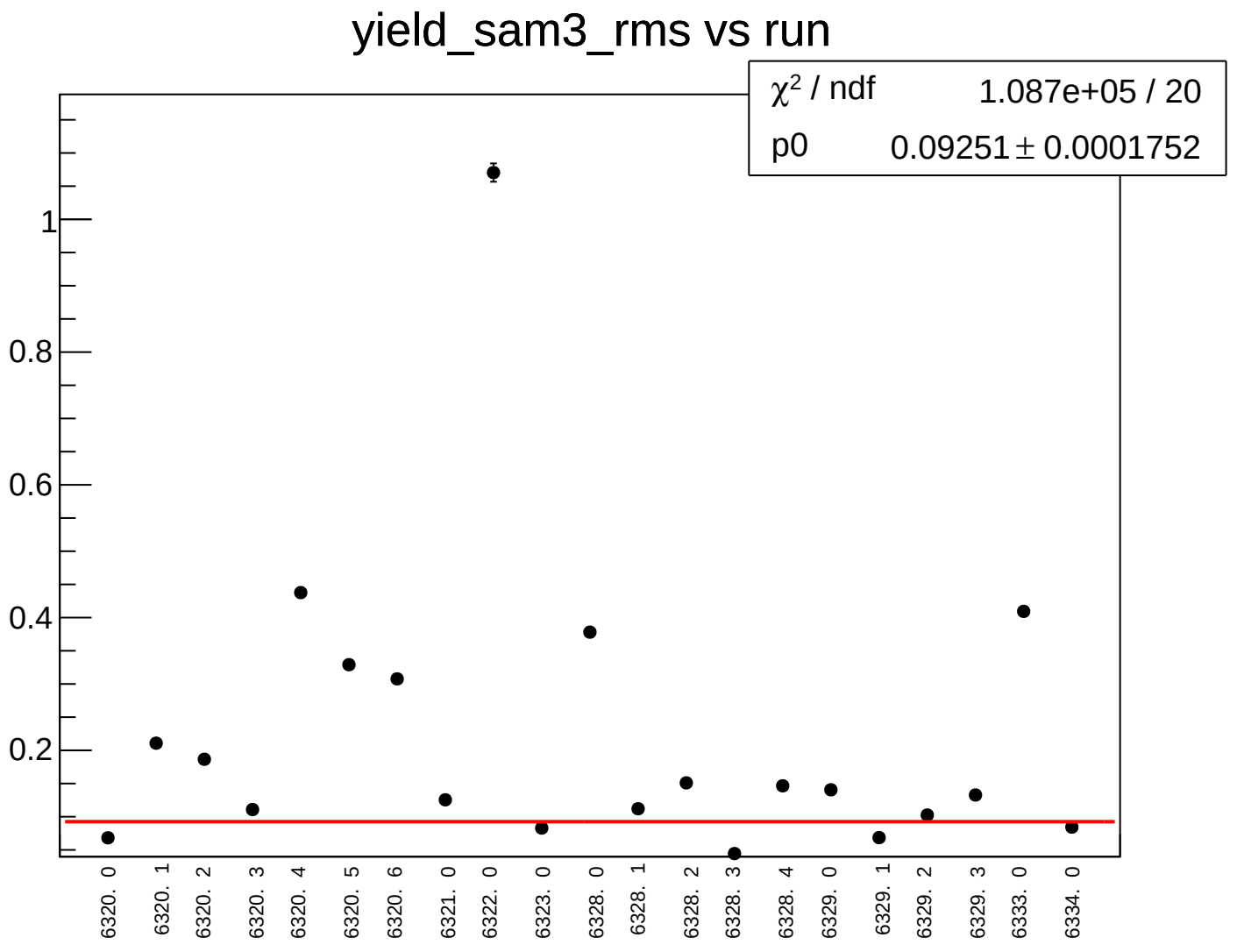

yield_sam2_mean vs run
χ² / ndf 1.399e+05 / 20
p0 22.34 ± 0.0003557
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.77
Std Dev 33.09
150
100
50
0
−50
−100
−150
−200

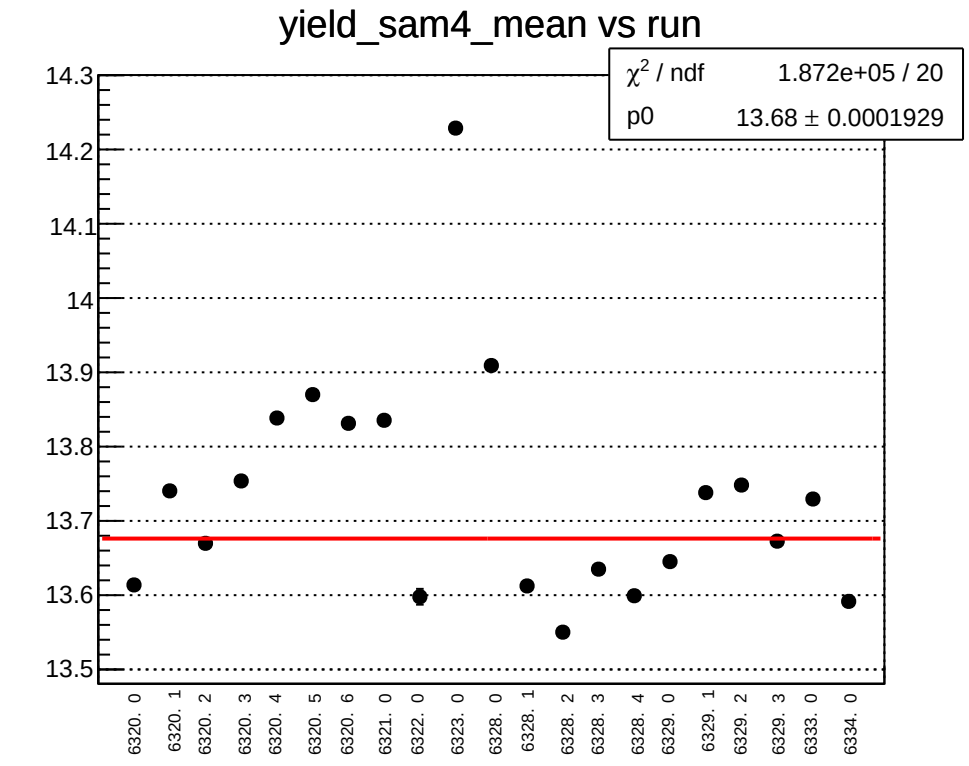

pull1D
Entries 21
Mean 2.432
Std Dev 2.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

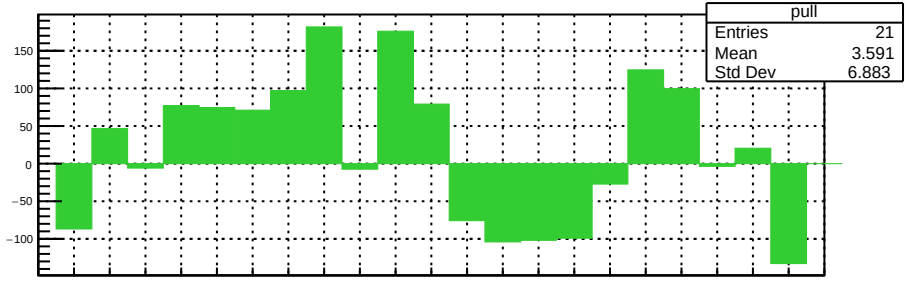

yield_sam2_rms vs run
χ² / ndf 9.699e+04 / 20
p0 0.1355 ± 0.0002515
1.4
1.2
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

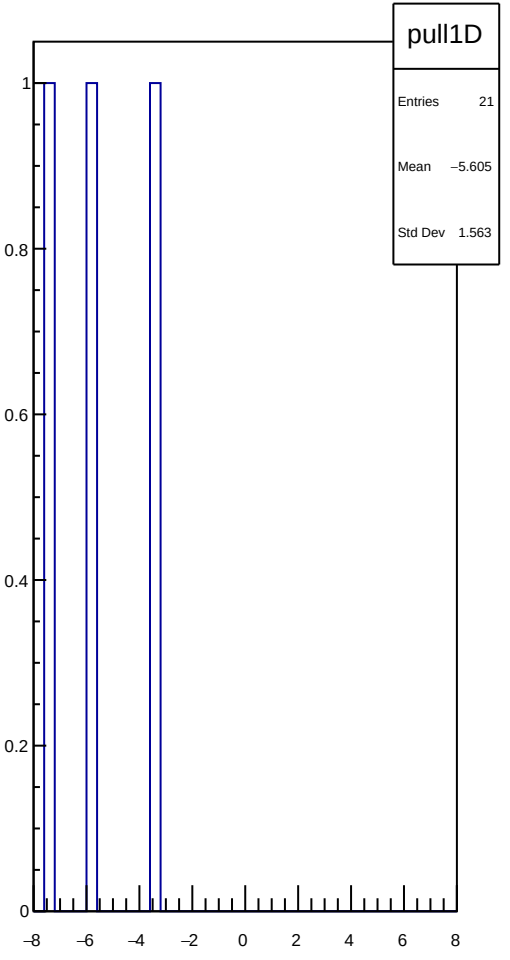

yield_sam3_mean vs run
χ² / ndf 1.232e+05 / 20
p0 30.7 ± 0.0002478
31.1
31
30.9
30.8
30.7
30.6
30.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.263
Std Dev 11.59
150
100
50
0
−50
−100

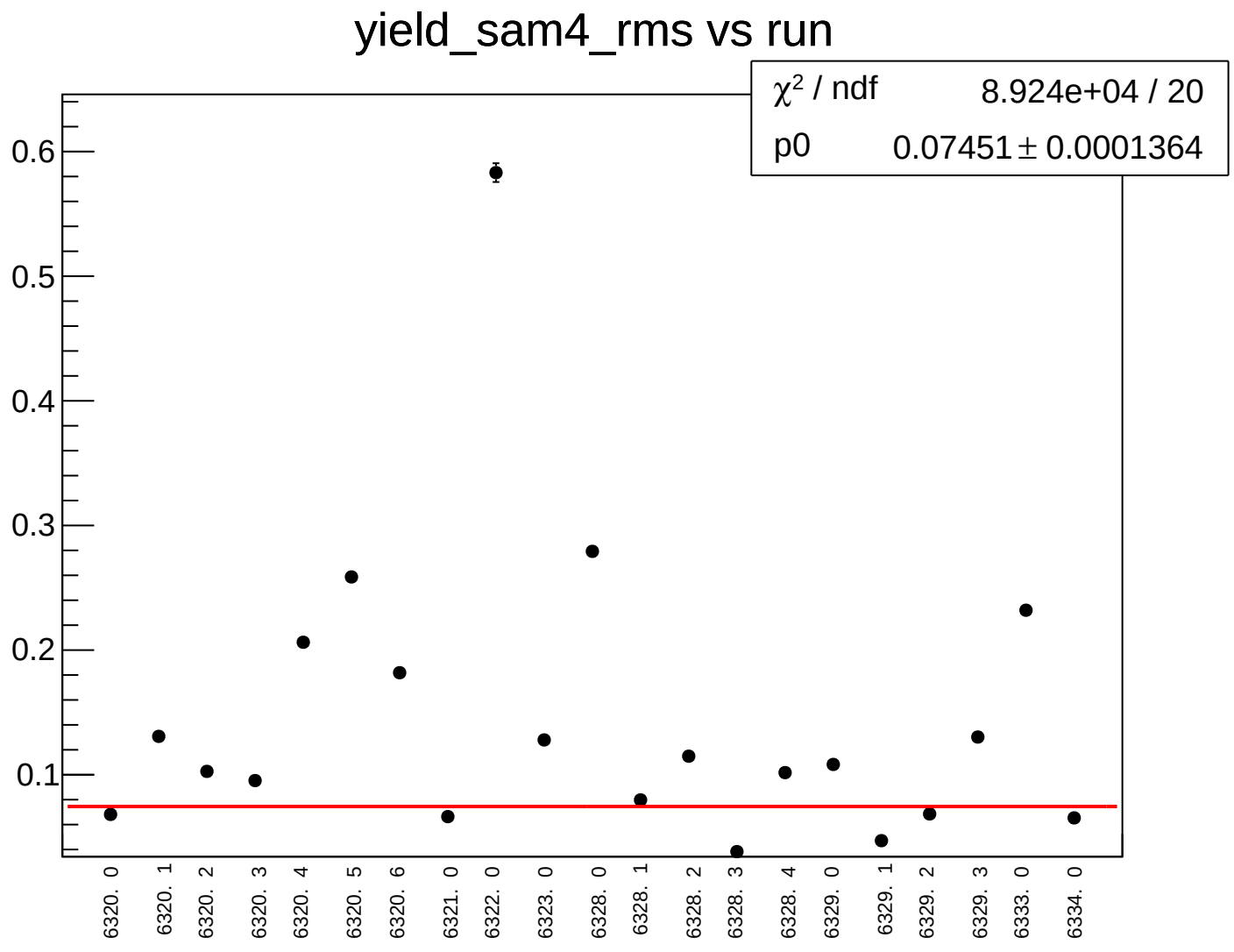

pull1D
Entries 21
Mean −1.76
Std Dev 2.45
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

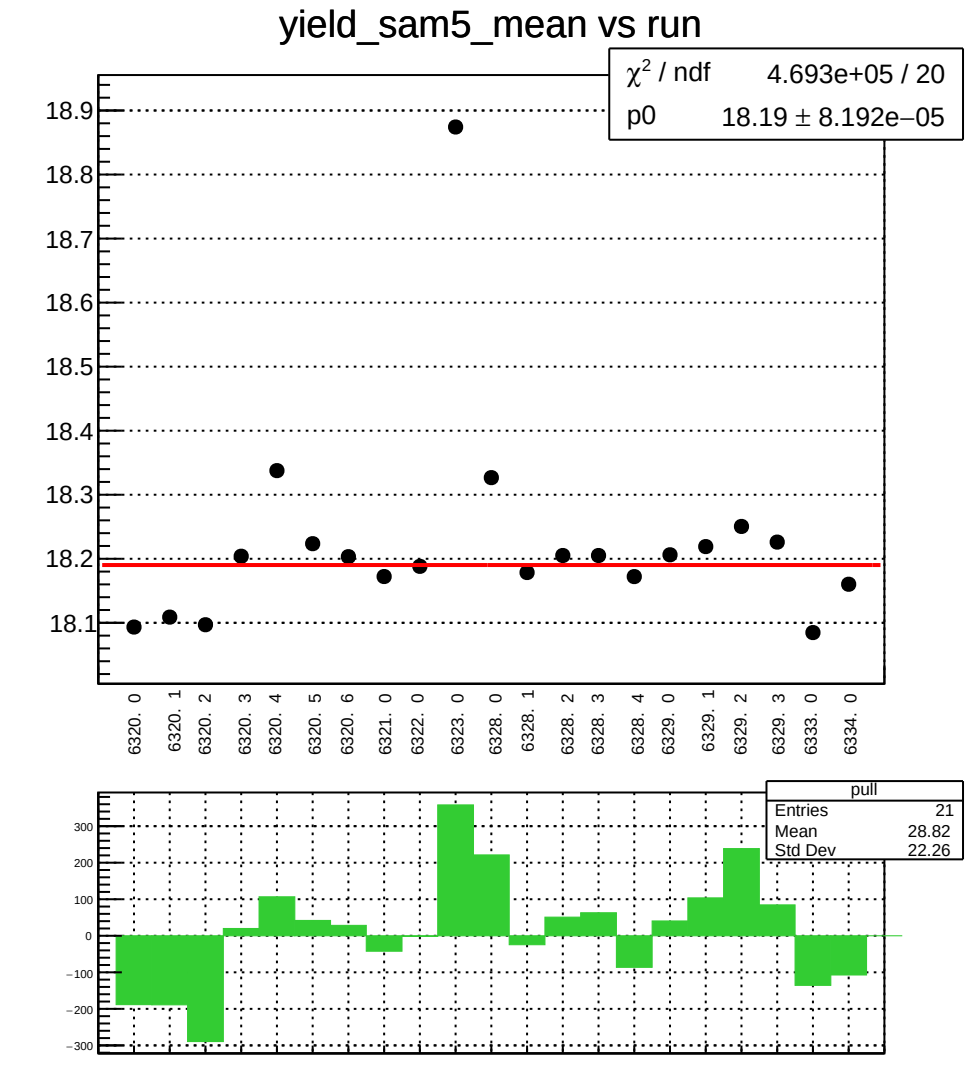

yield_sam3_rms vs run
χ² / ndf 1.087e+05 / 20
p0 0.09251 ± 0.0001752
1
0.8
0.6
0.4
0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

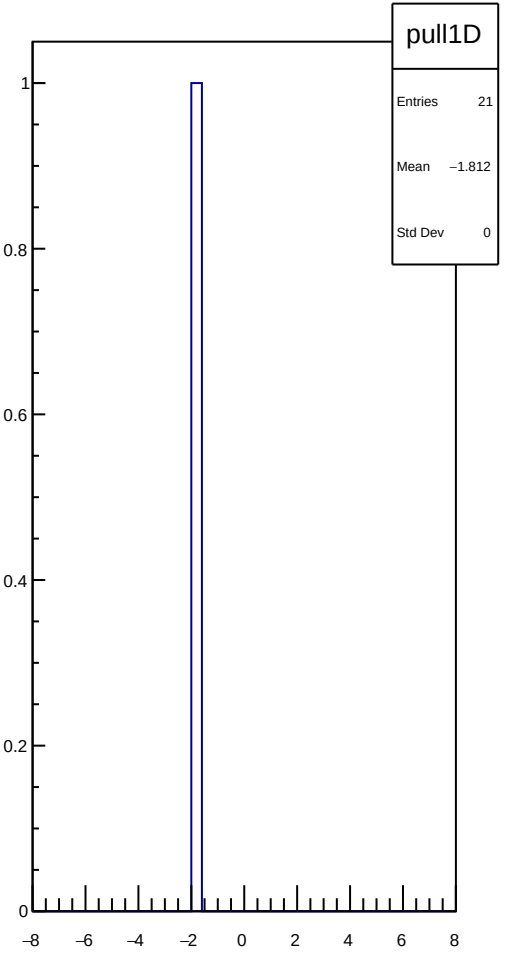

yield_sam4_mean vs run
χ² / ndf 1.872e+05 / 20
p0 13.68 ± 0.0001929
14.3
14.2
14.1
14
13.9
13.8
13.7
13.6
13.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

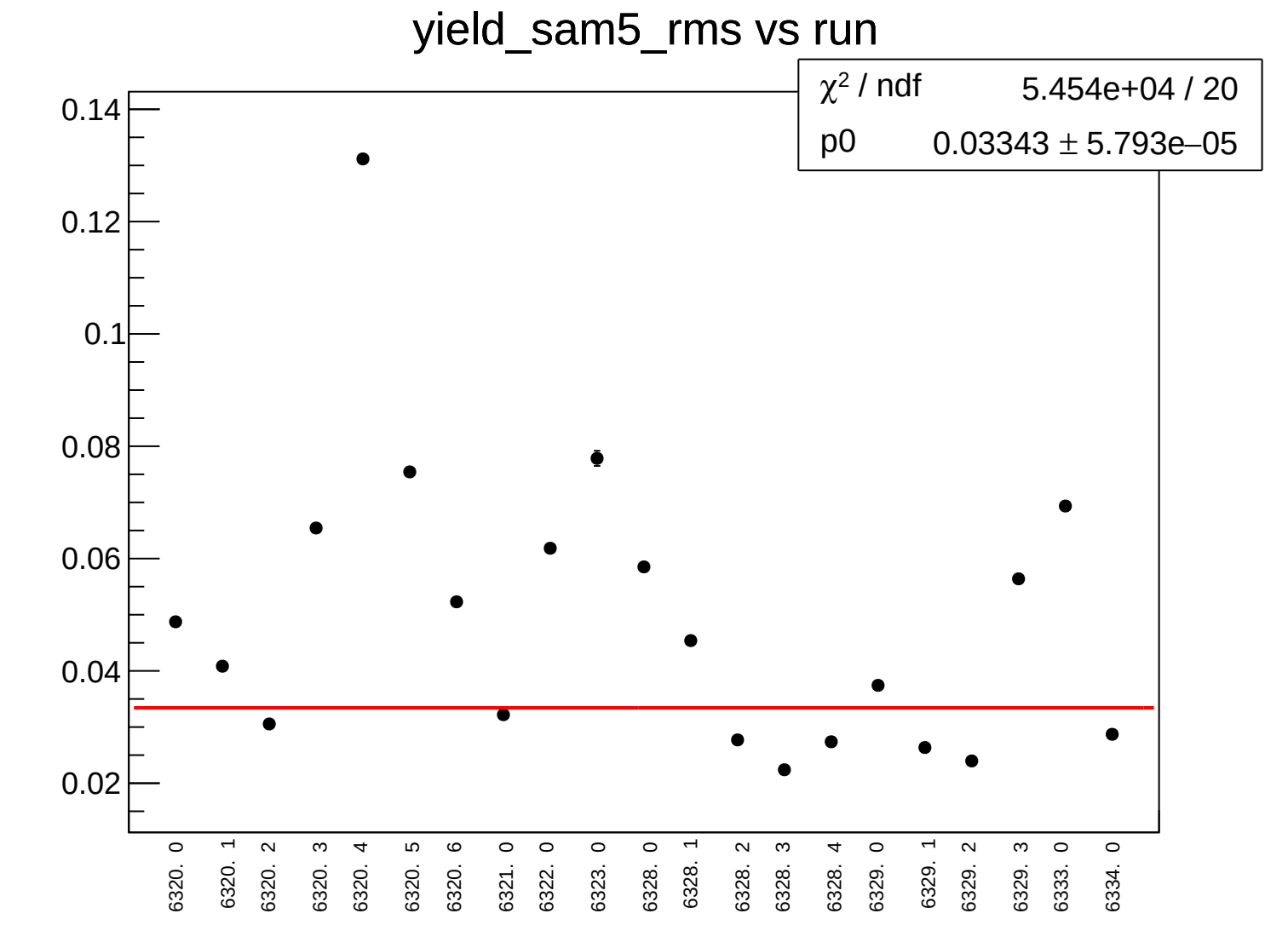

pull
Entries 21
Mean 3.591
Std Dev 6.883
150
100
50
0
−50
−100

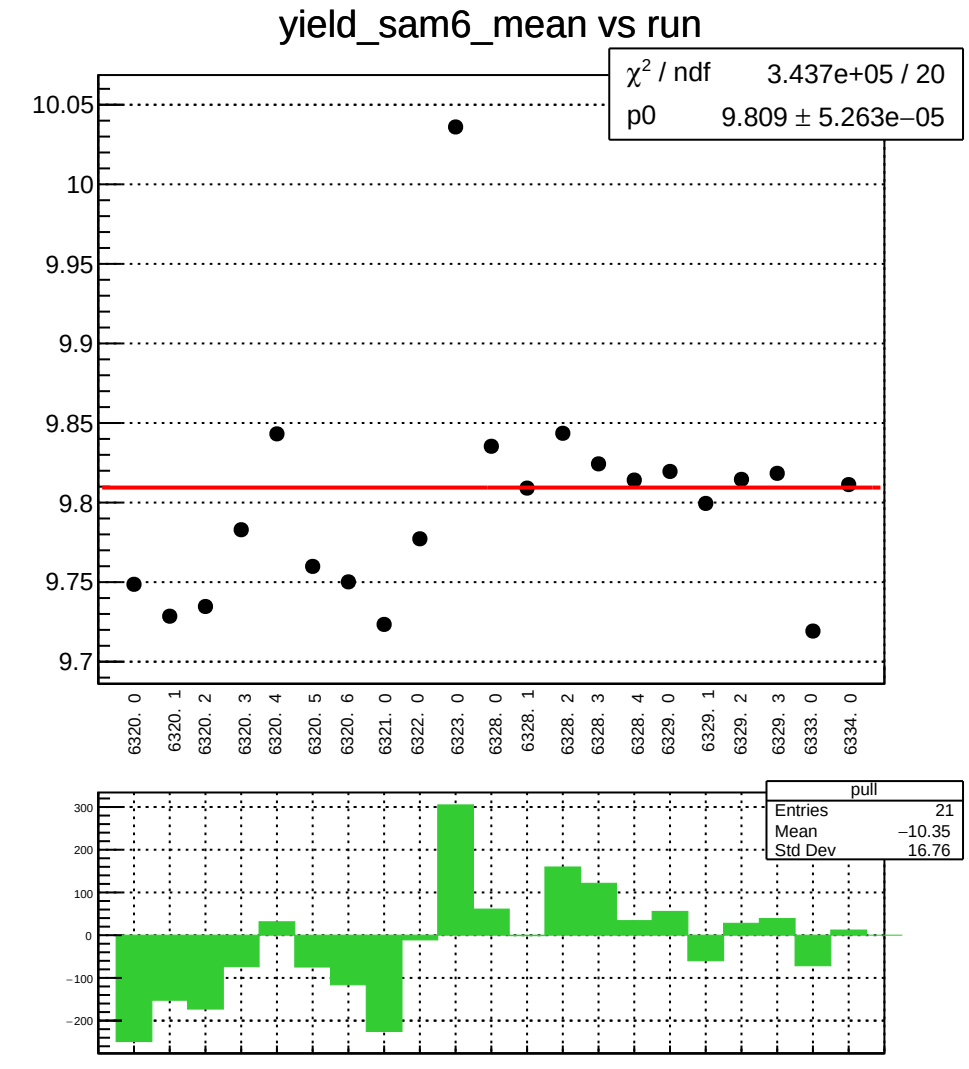

pull1D
Entries 21
Mean −5.605
Std Dev 1.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

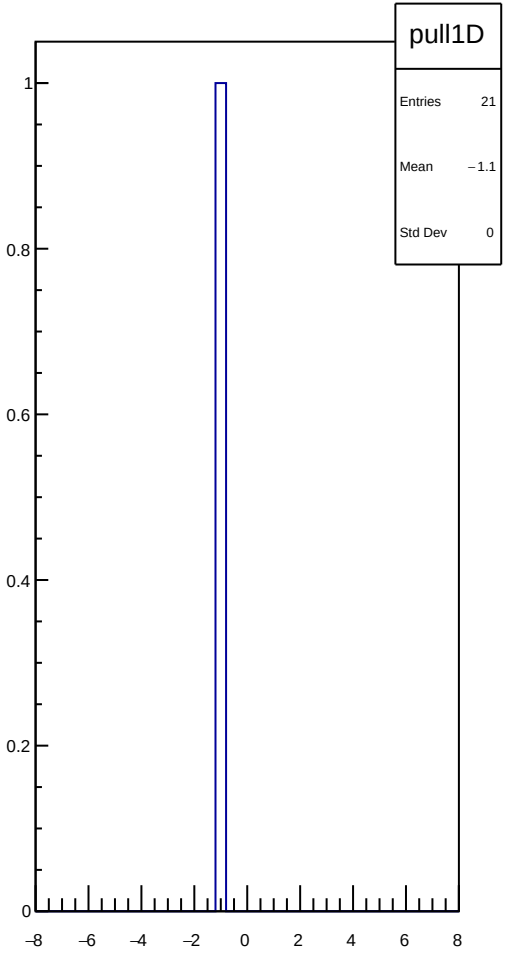

yield_sam4_rms vs run
χ² / ndf 8.924e+04 / 20
p0 0.07451 ± 0.0001364
0.6
0.5
0.4
0.3
0.2
0.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

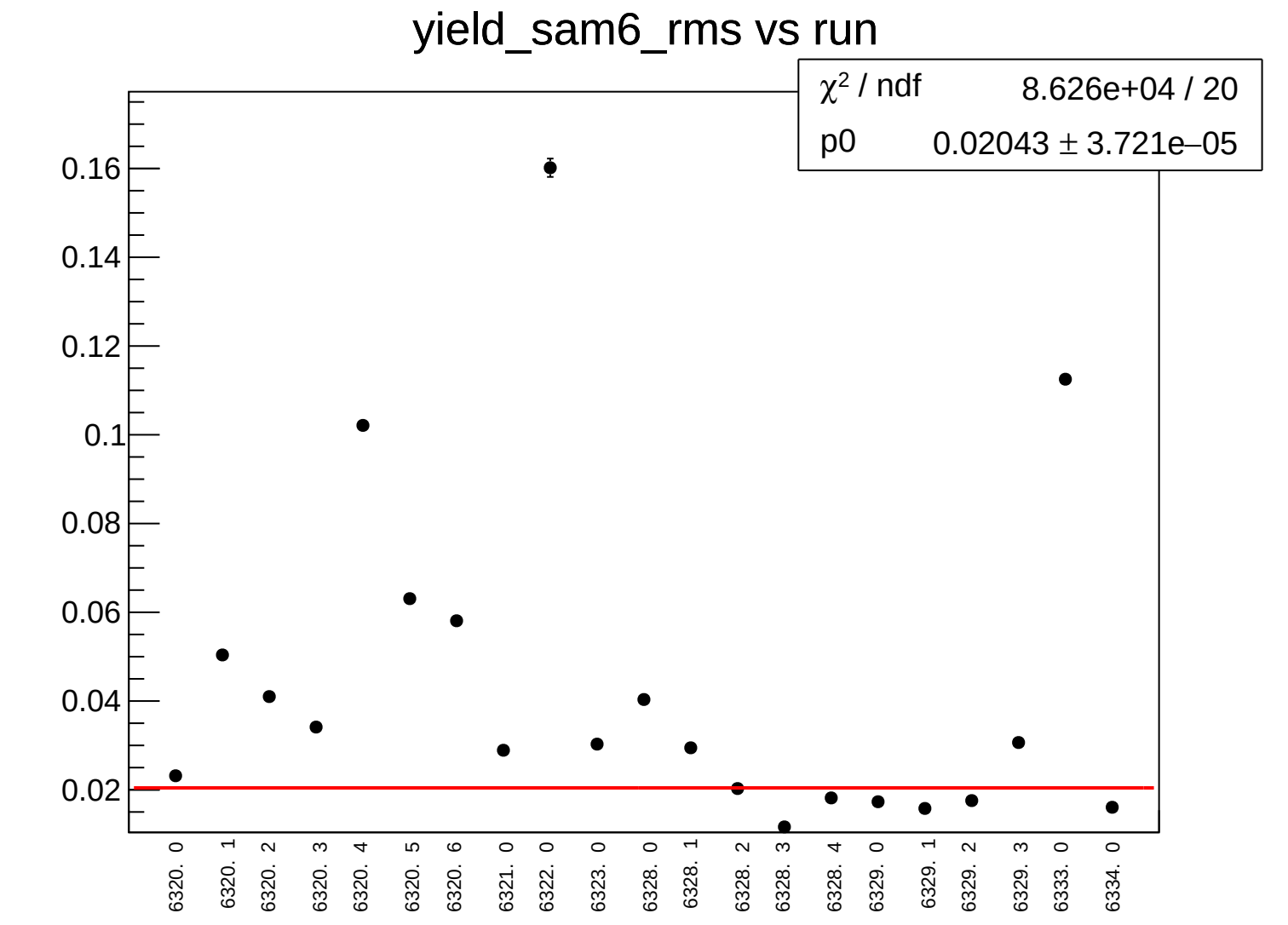

yield_sam5_mean vs run
χ² / ndf 4.693e+05 / 20
p0 18.19 ± 8.192e−05
18.9
18.8
18.7
18.6
18.5
18.4
18.3
18.2
18.1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.82
Std Dev 22.26
300
200
100
0
−100
−200
−300

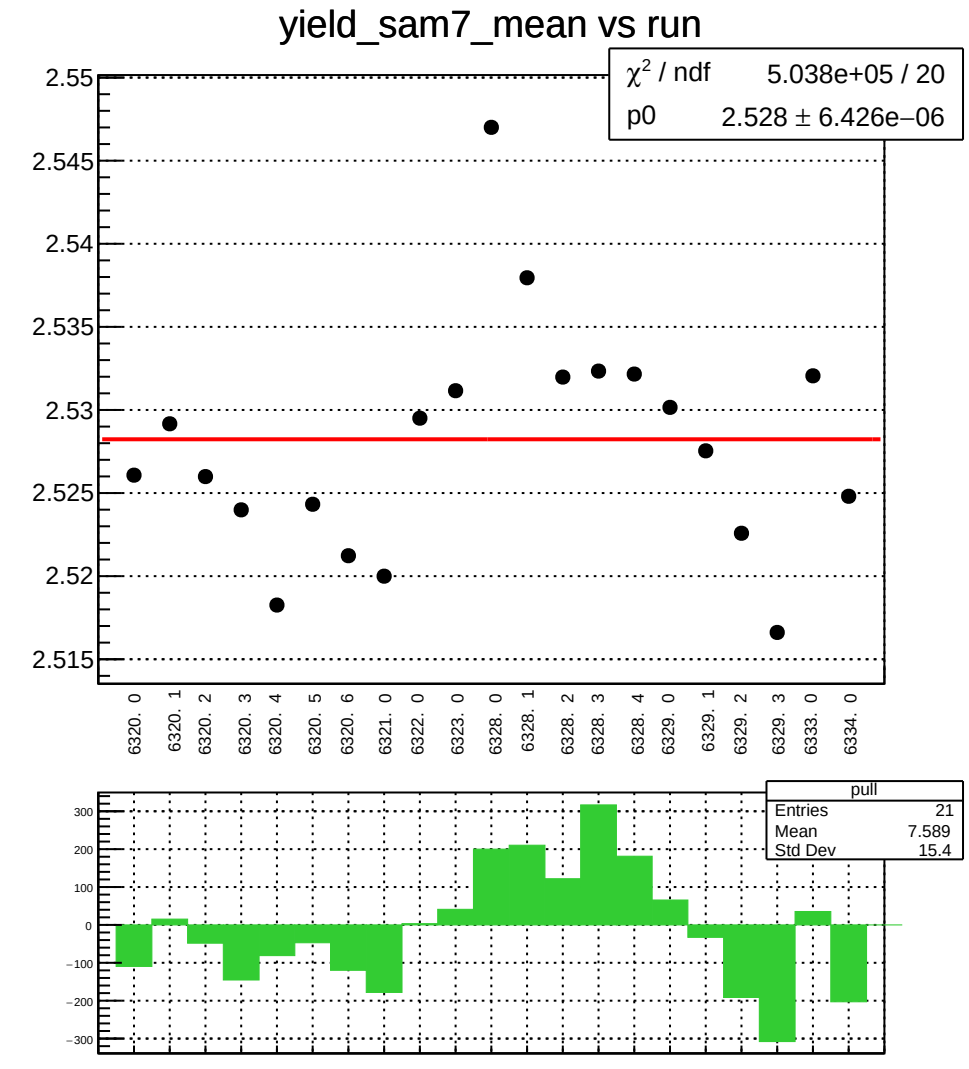

pull1D
Entries 21
Mean −1.812
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

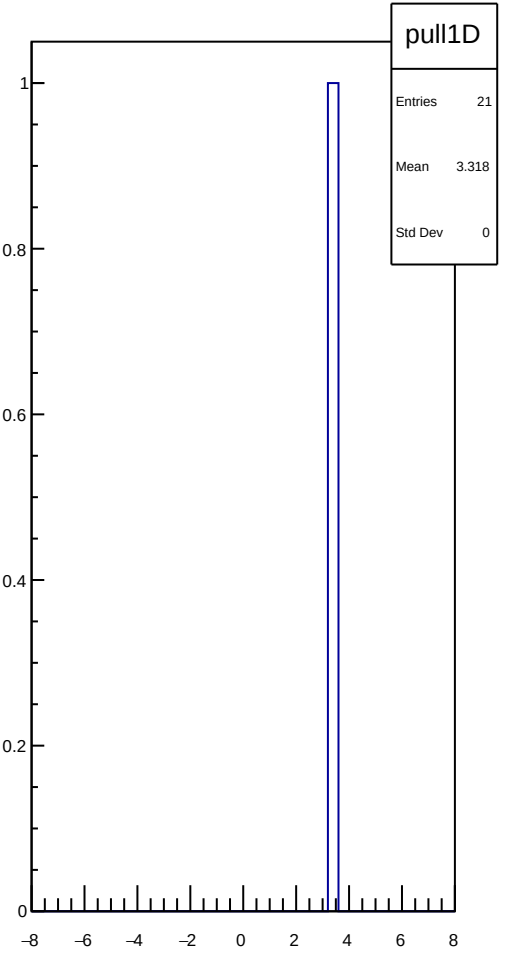

yield_sam5_rms vs run
χ² / ndf 5.454e+04 / 20
p0 0.03343 ± 5.793e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

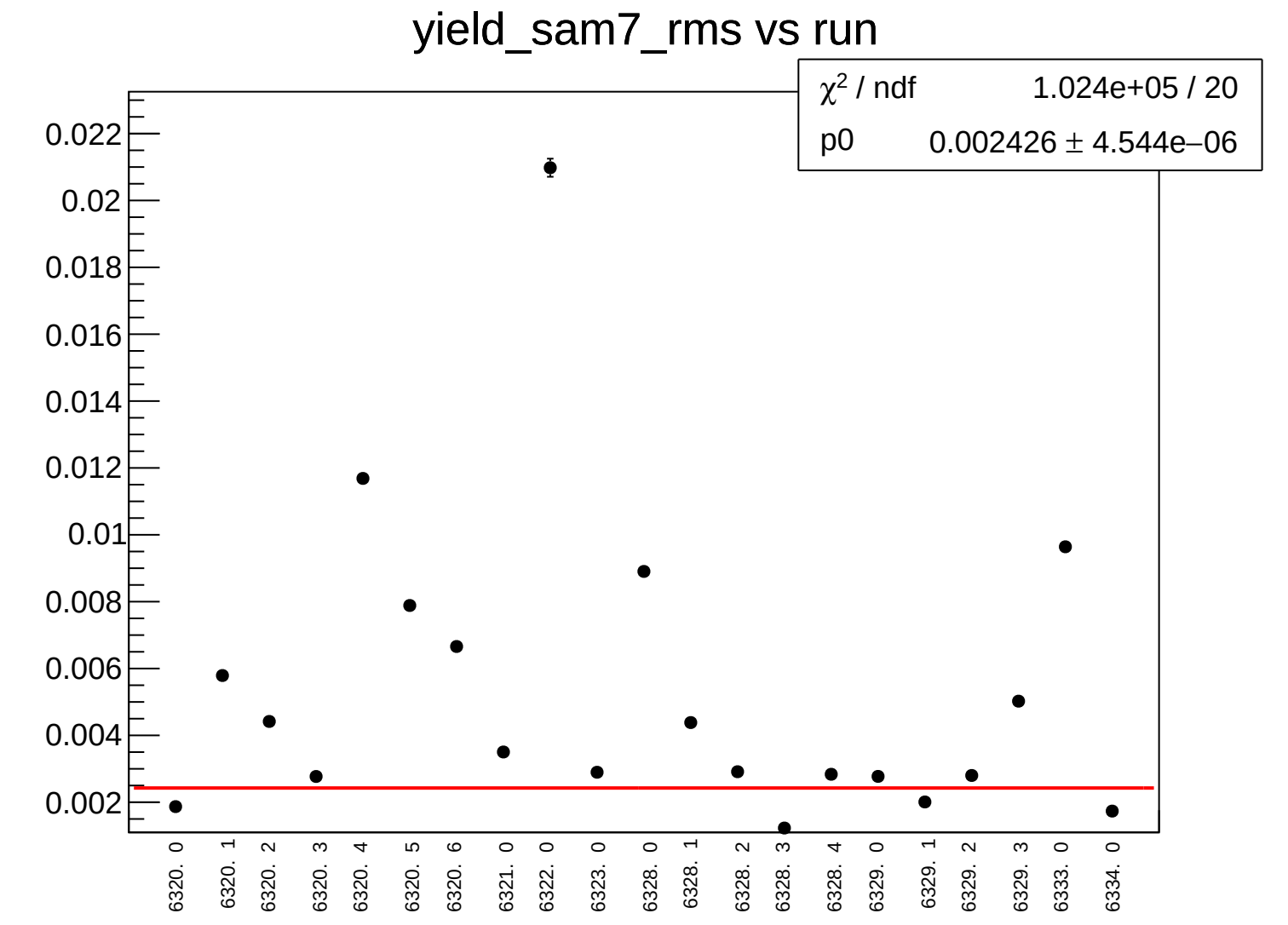

yield_sam6_mean vs run
χ² / ndf 3.437e+05 / 20
p0 9.809 ± 5.263e−05
10.05
10
9.95
9.9
9.85
9.8
9.75
9.7
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.35
Std Dev 16.76
300
200
100
0
−100
−200

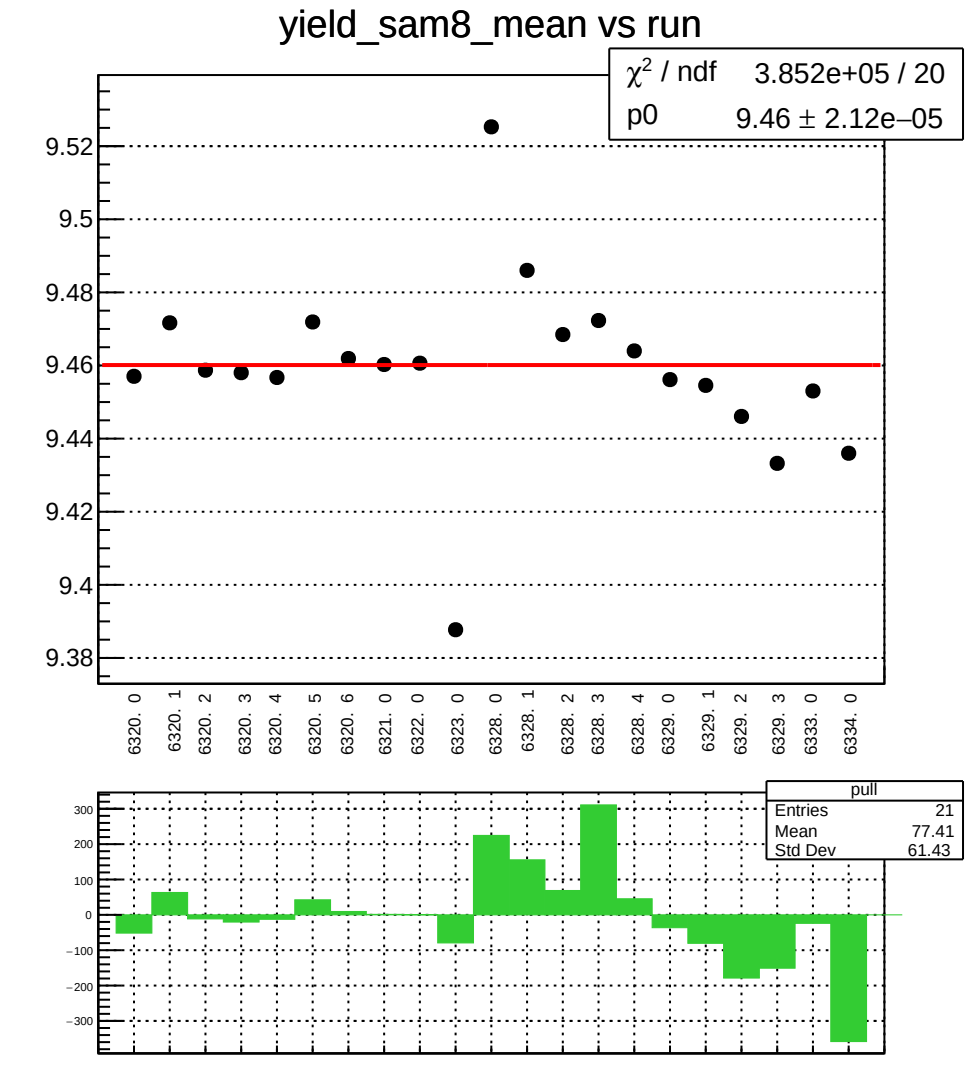

pull1D
Entries 21
Mean −1.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

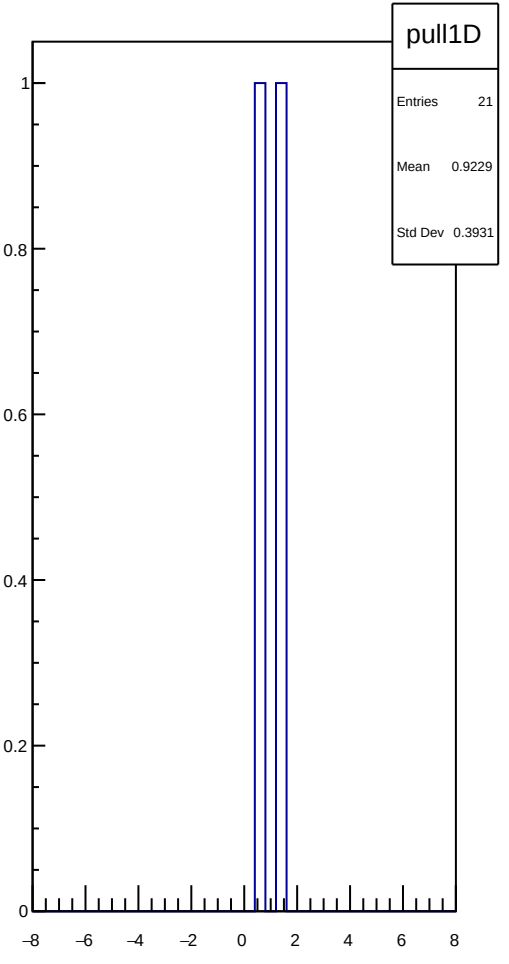

yield_sam6_rms vs run
χ² / ndf 8.626e+04 / 20
p0 0.02043 ± 3.721e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

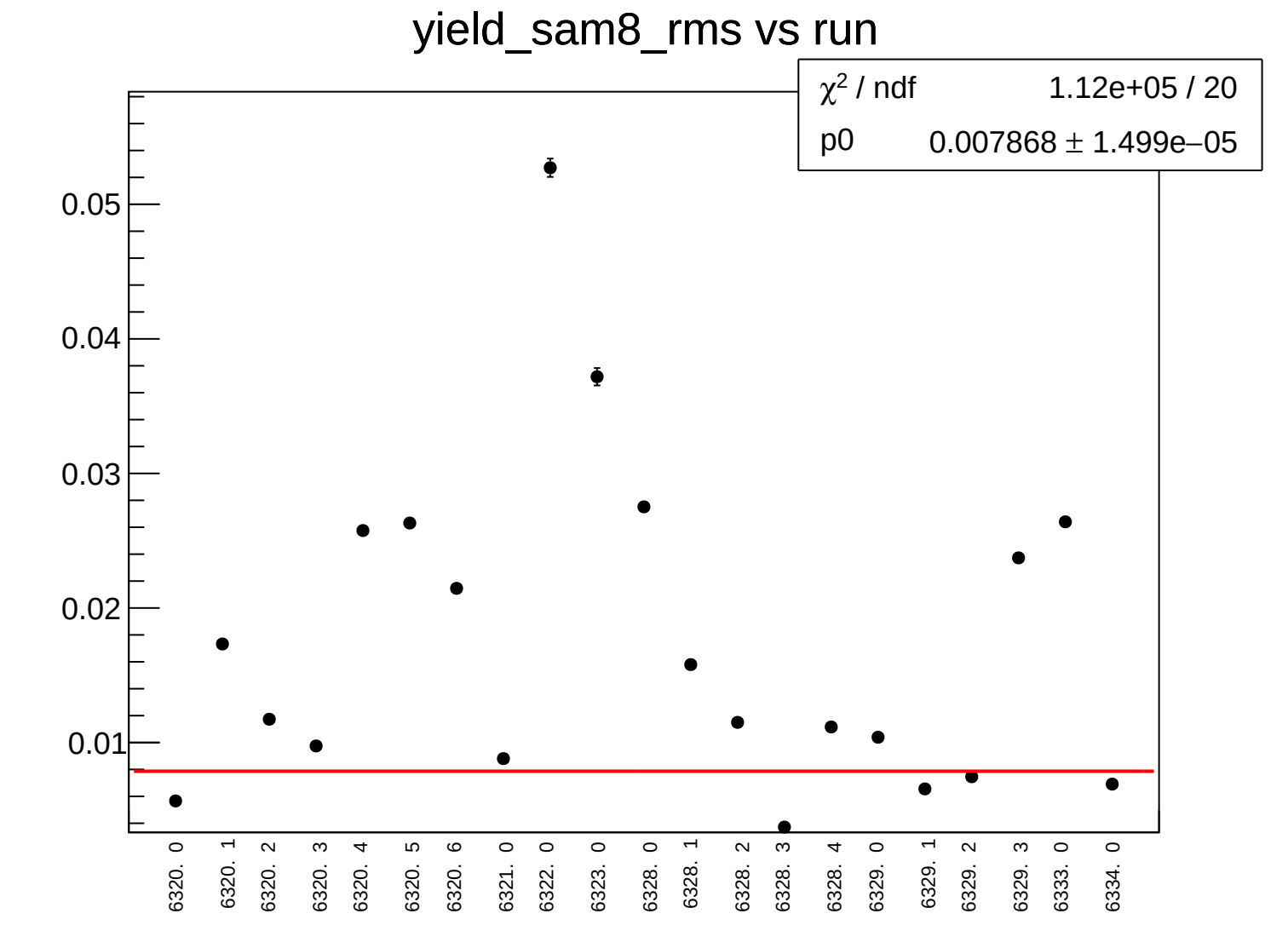

yield_sam7_mean vs run
χ² / ndf 5.038e+05 / 20
p0 2.528 ± 6.426e−06
2.55
2.545
2.54
2.535
2.53
2.525
2.52
2.515
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 7.589
Std Dev 15.4
300
200
100
0
−100
−200
−300

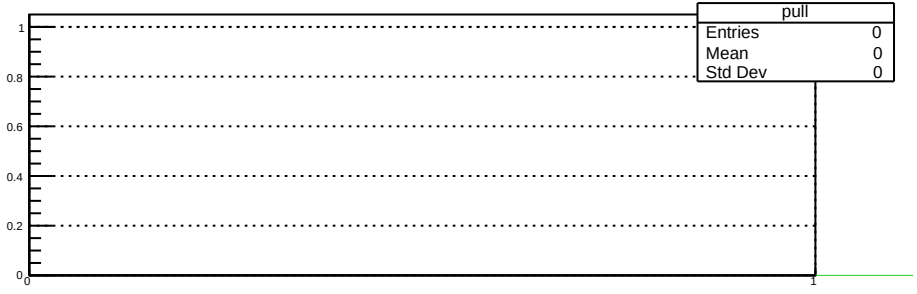

pull1D
Entries 21
Mean 3.318
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

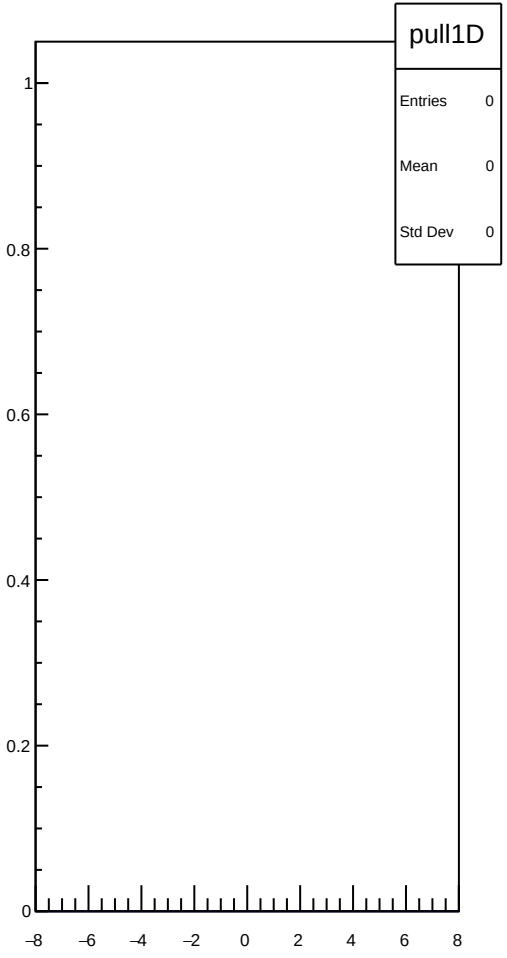

yield_sam7_rms vs run
χ² / ndf 1.024e+05 / 20
p0 0.002426 ± 4.544e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


yield_sam8_mean vs run
χ² / ndf 3.852e+05 / 20
p0 9.46 ± 2.12e−05
9.52
9.5
9.48
9.46
9.44
9.42
9.4
9.38
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 77.41
Std Dev 61.43
300
200
100
0
−100
−200
−300


pull1D
Entries 21
Mean 0.9229
Std Dev 0.3931
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 1.12e+05 / 20
p0 0.007868 ± 1.499e−05
0.05
0.04
0.03
0.02
0.01
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


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


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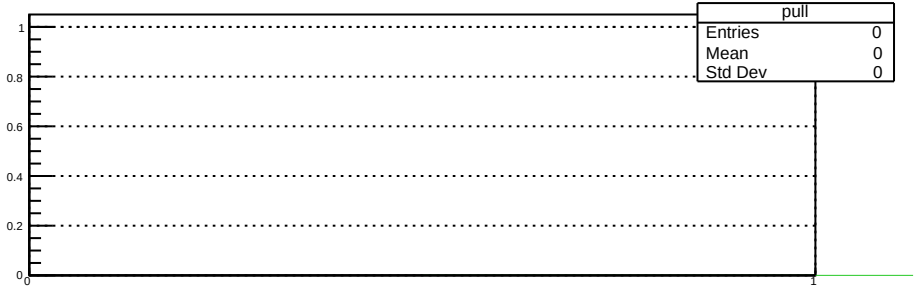
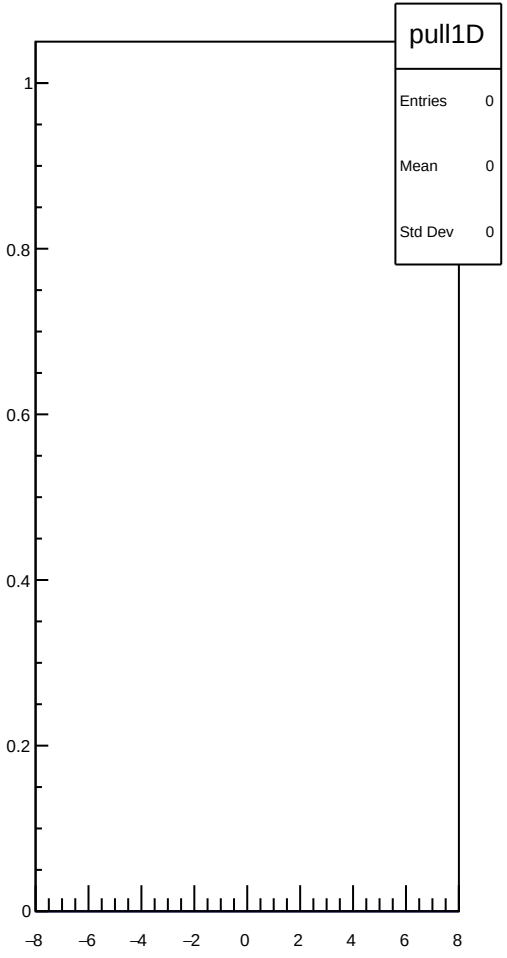
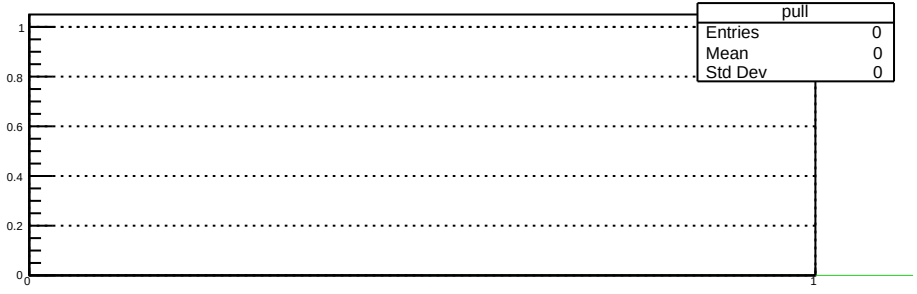
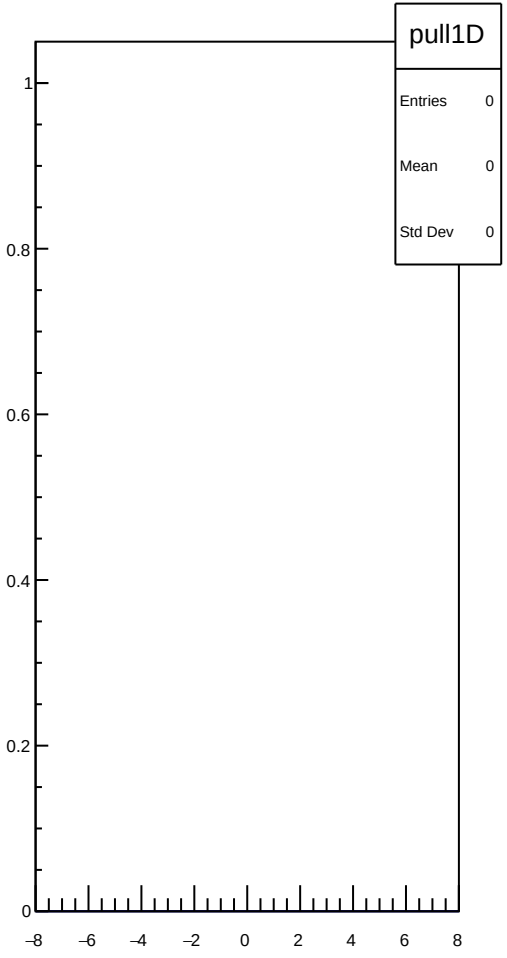
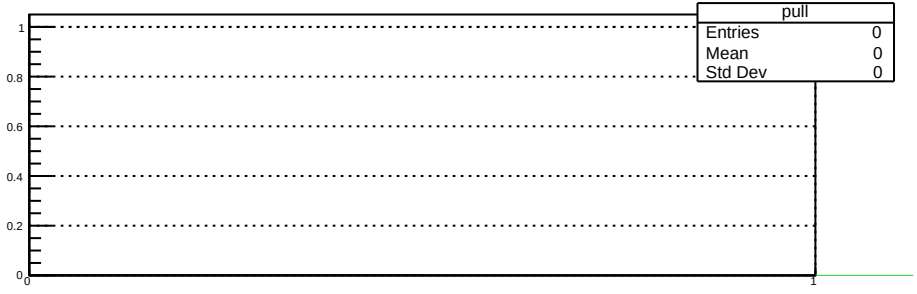
0
2
4
6
8

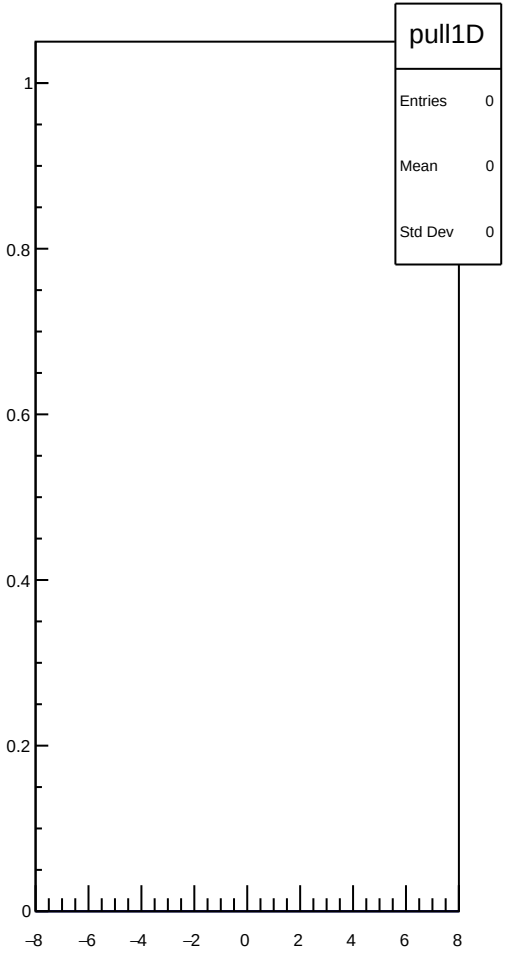

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

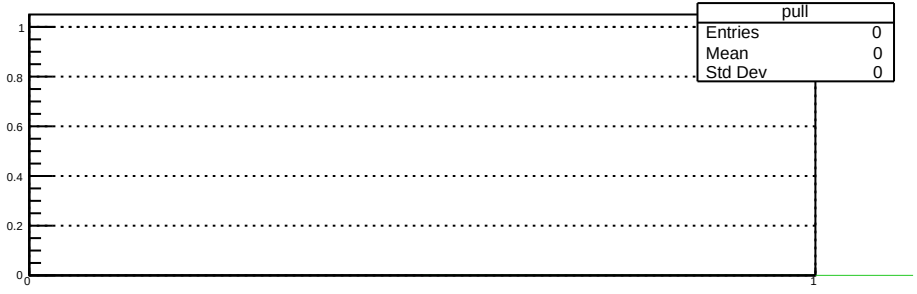

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

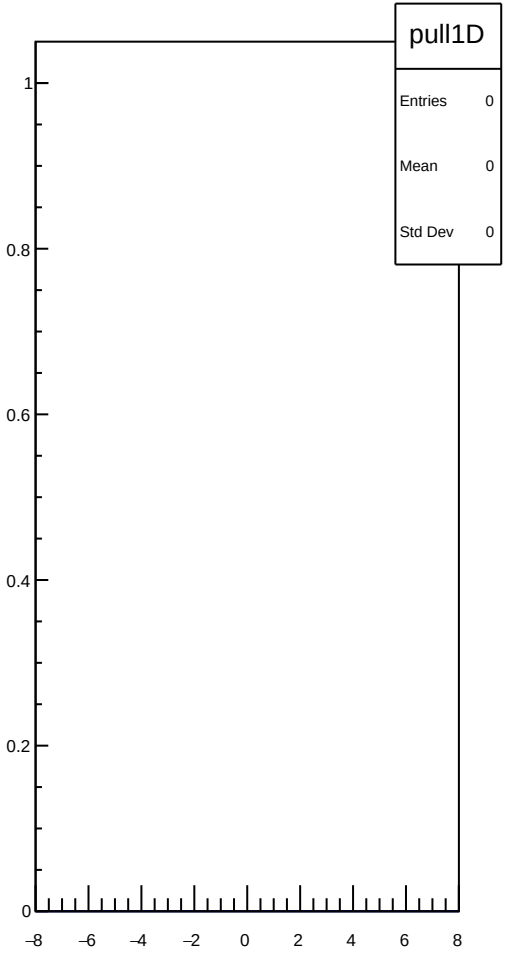

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

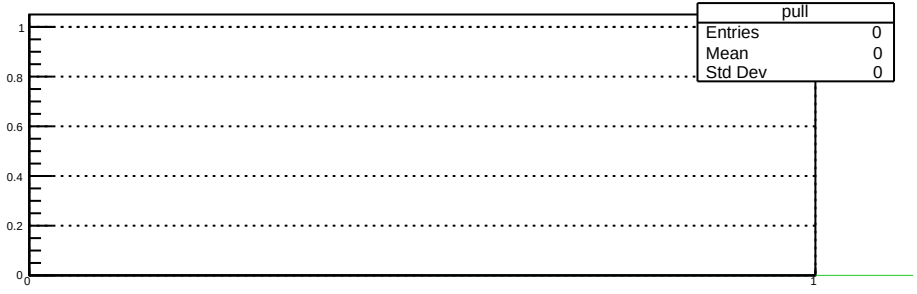

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

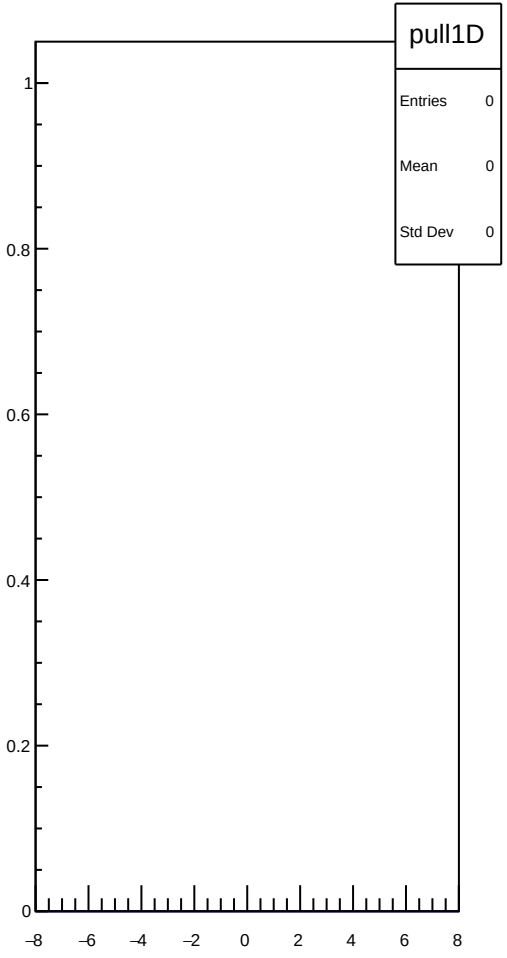

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

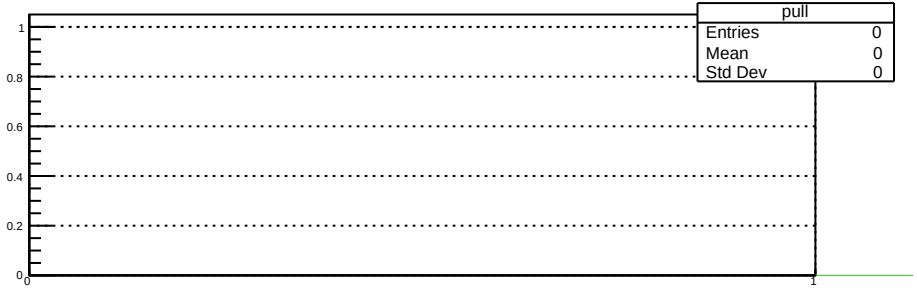

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

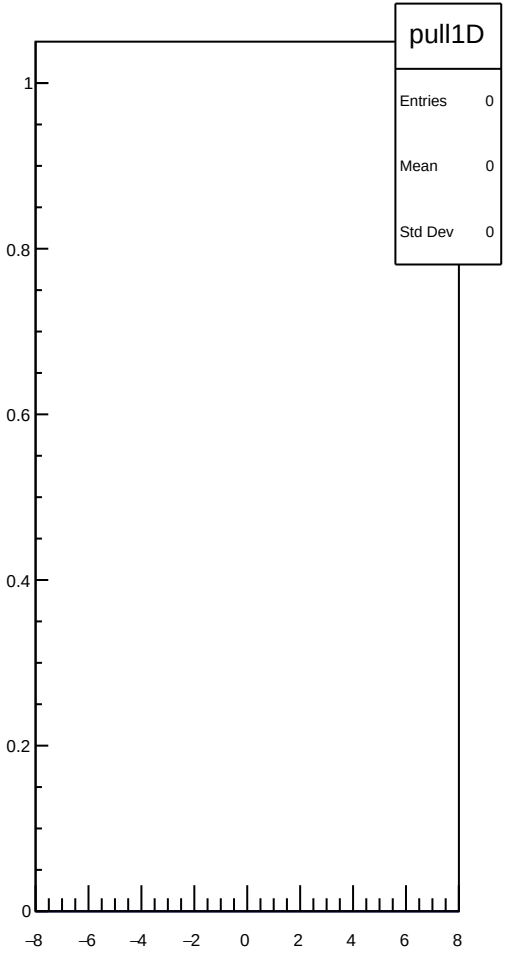

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

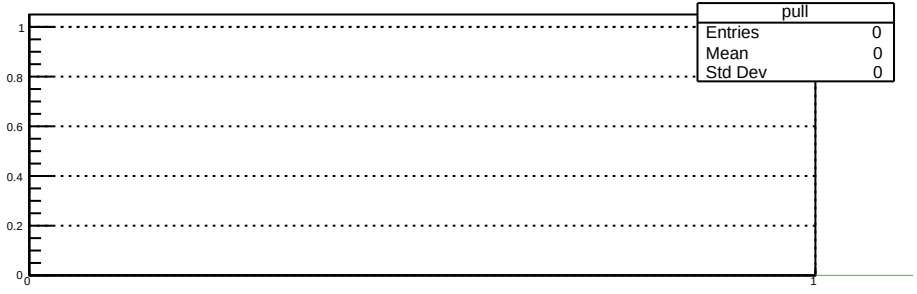

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

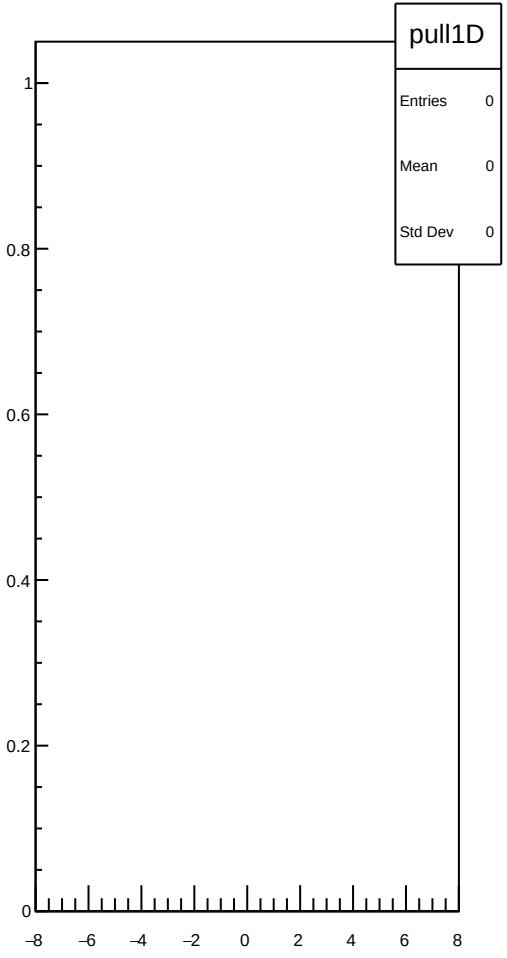

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

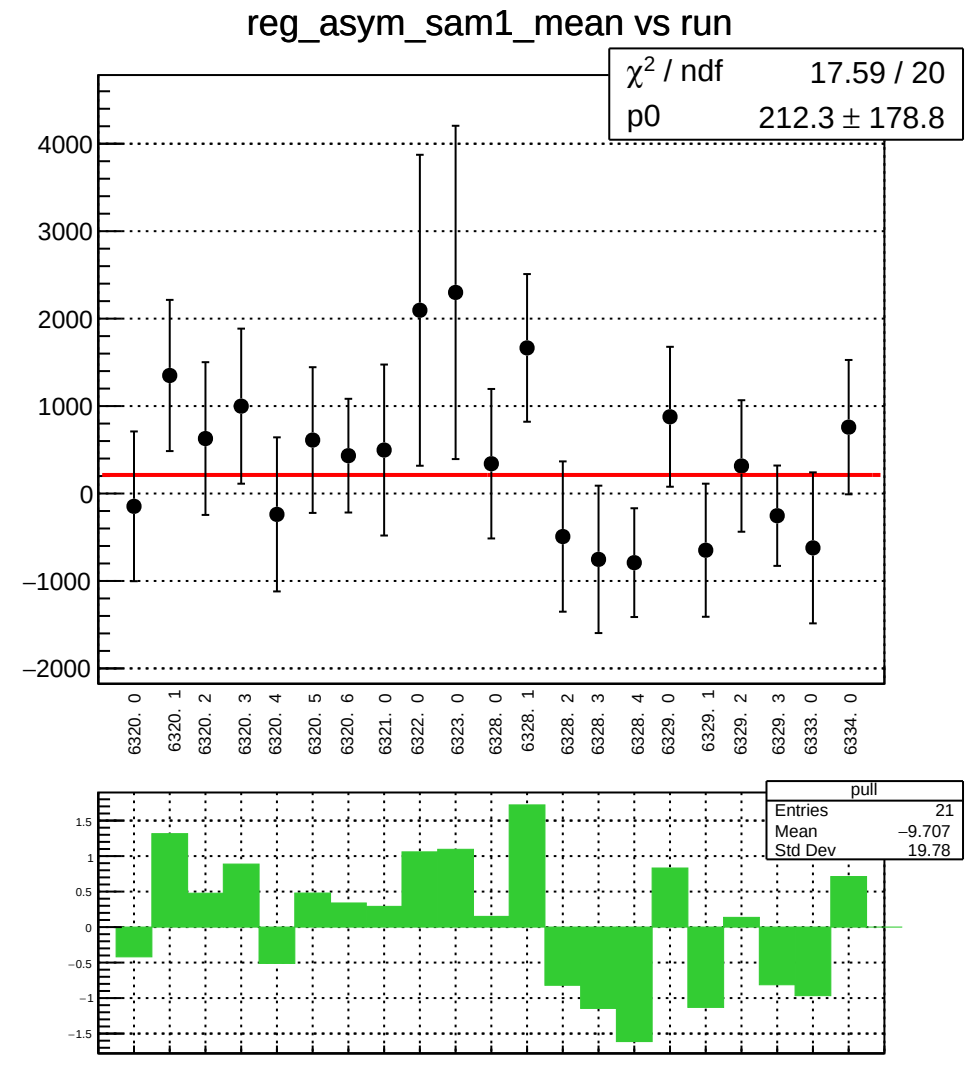

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

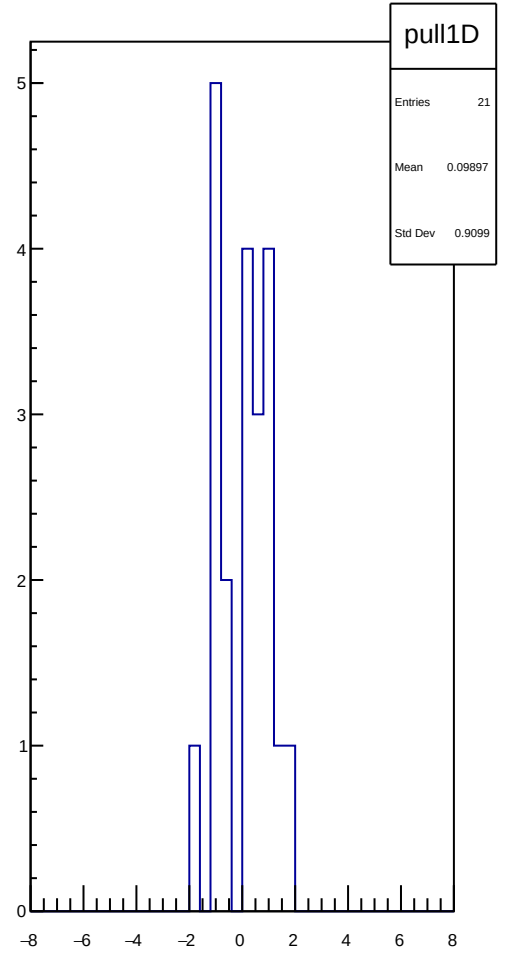

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

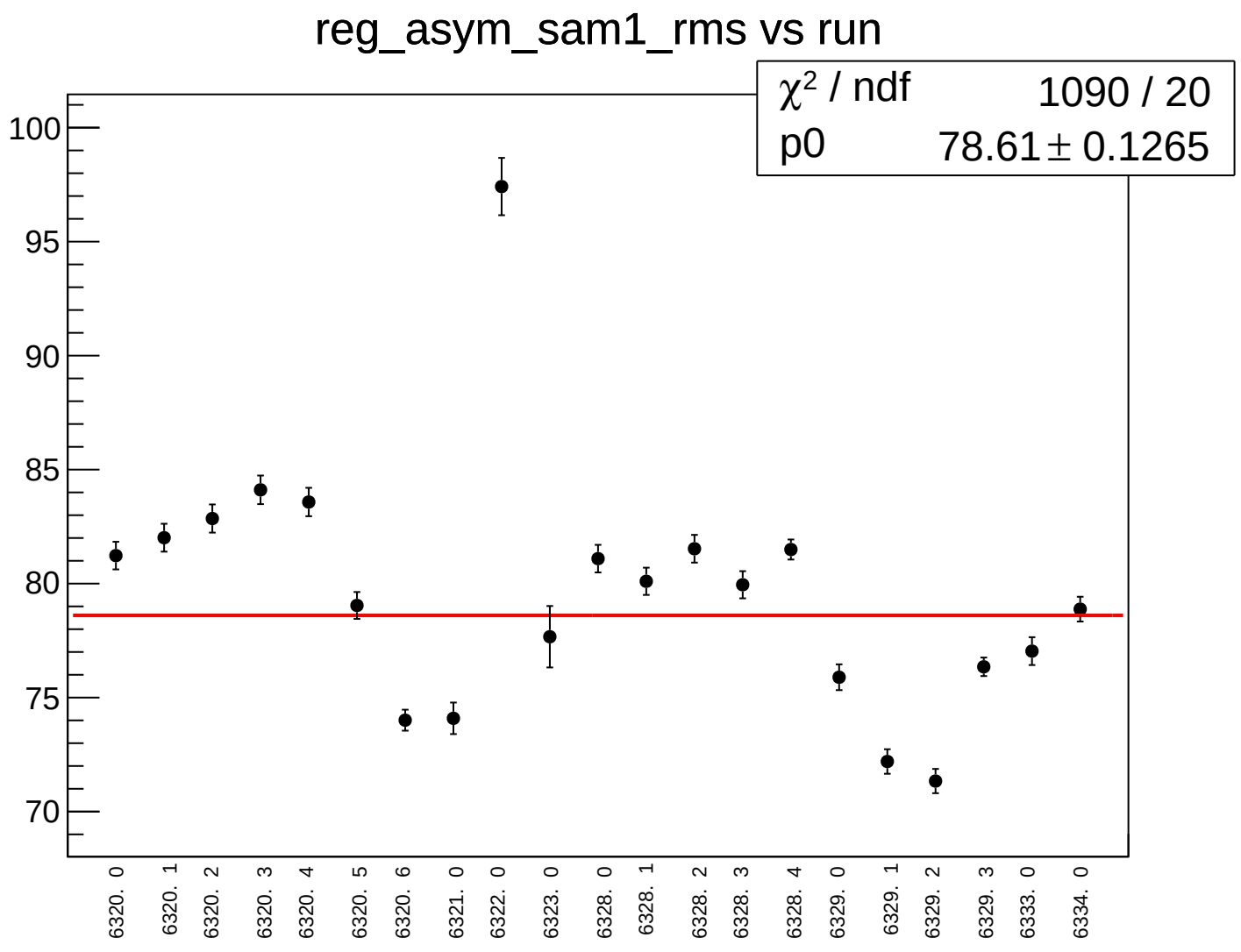

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

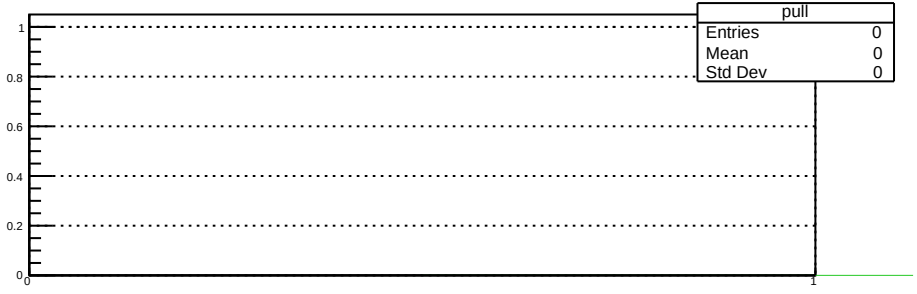

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

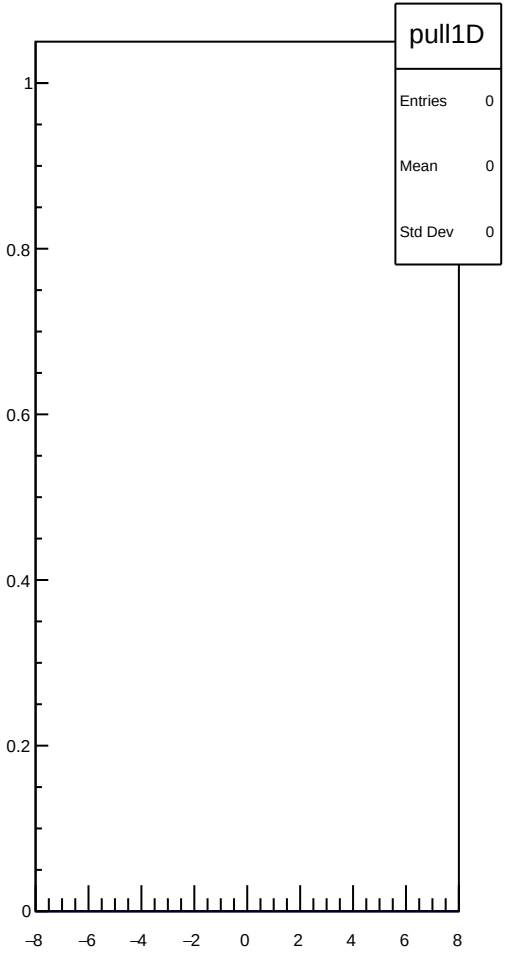

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

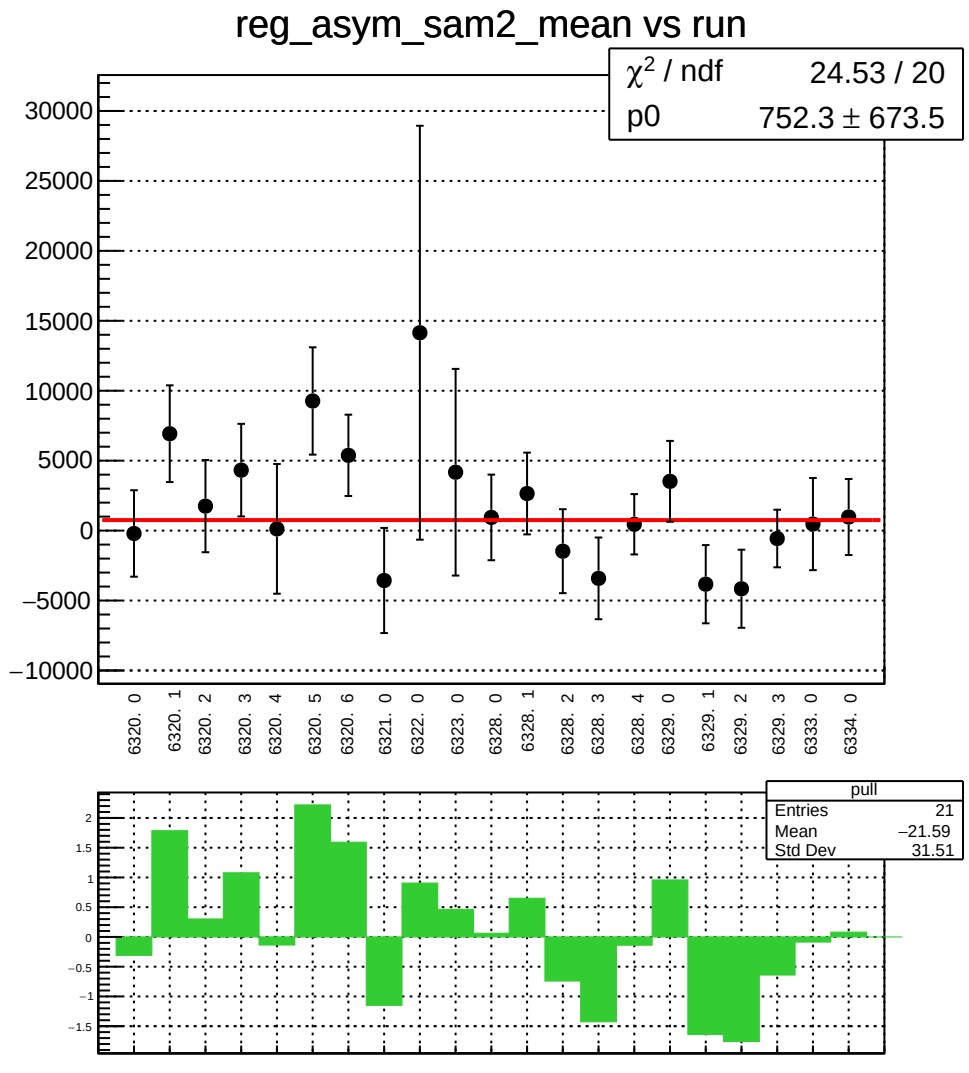

reg_asym_sam1_mean vs run
χ² / ndf 17.59 / 20
p0 212.3 ± 178.8
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.707
Std Dev 19.78
1.5
1
0.5
0
−0.5
−1
−1.5

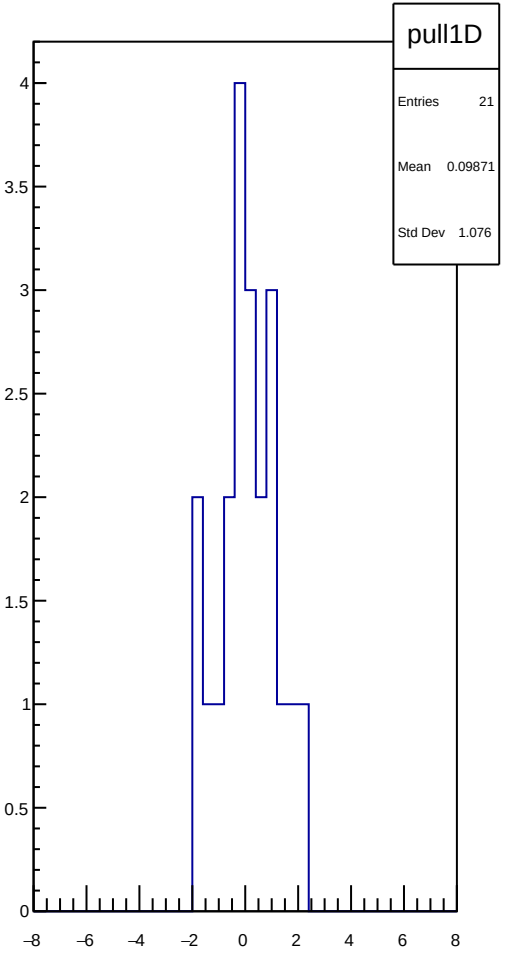

pull1D
Entries 21
Mean 0.09897
Std Dev 0.9099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

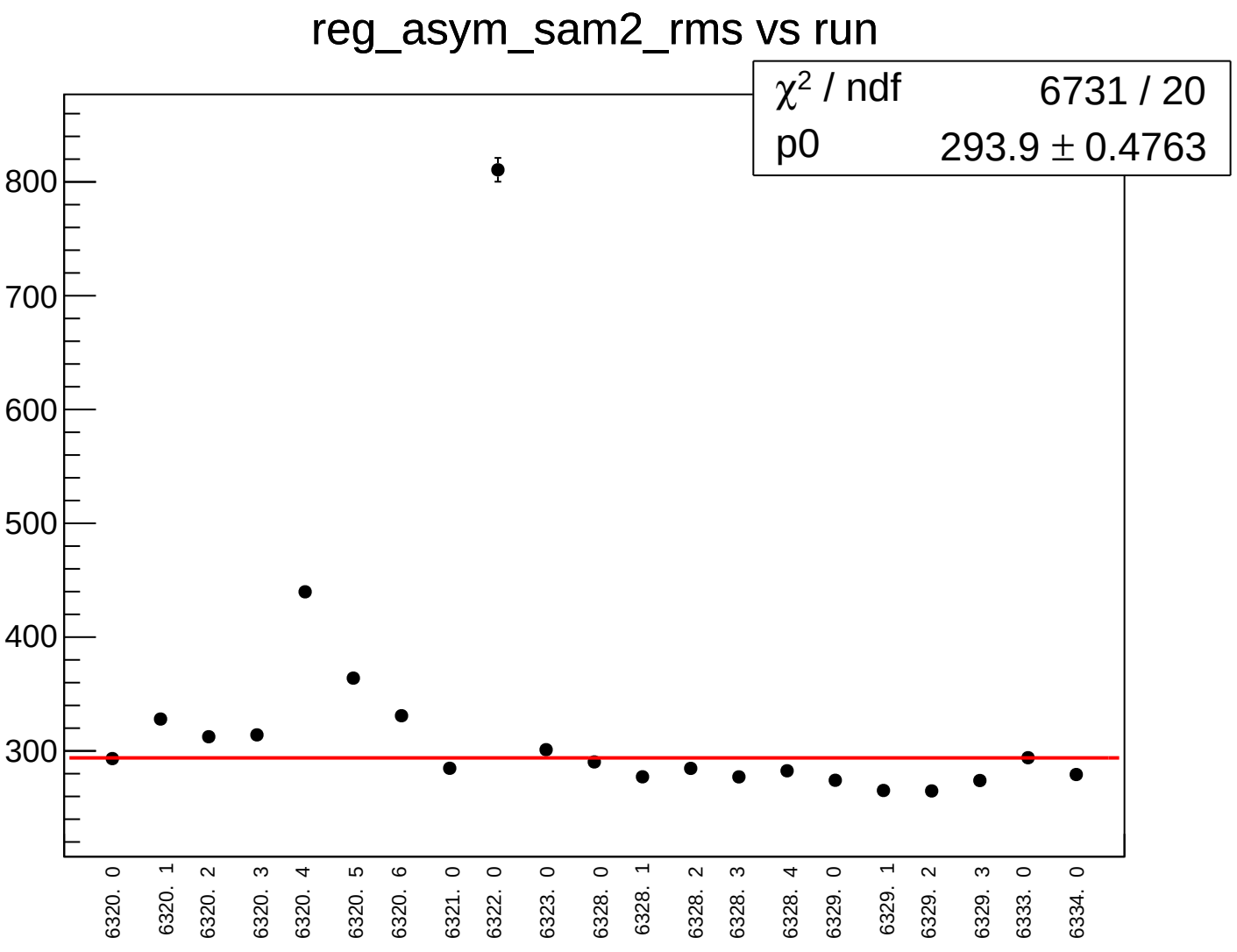

reg_asym_sam1_rms vs run
χ² / ndf 1090 / 20
p0 78.61 ± 0.1265
100
95
90
85
80
75
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

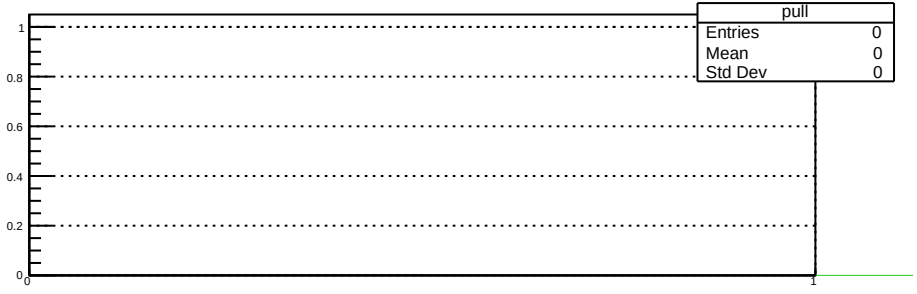

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

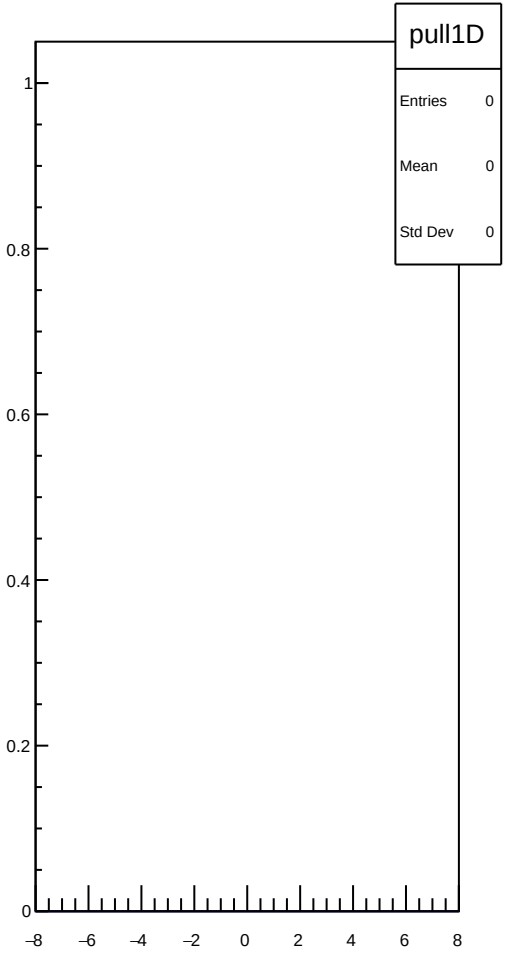

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

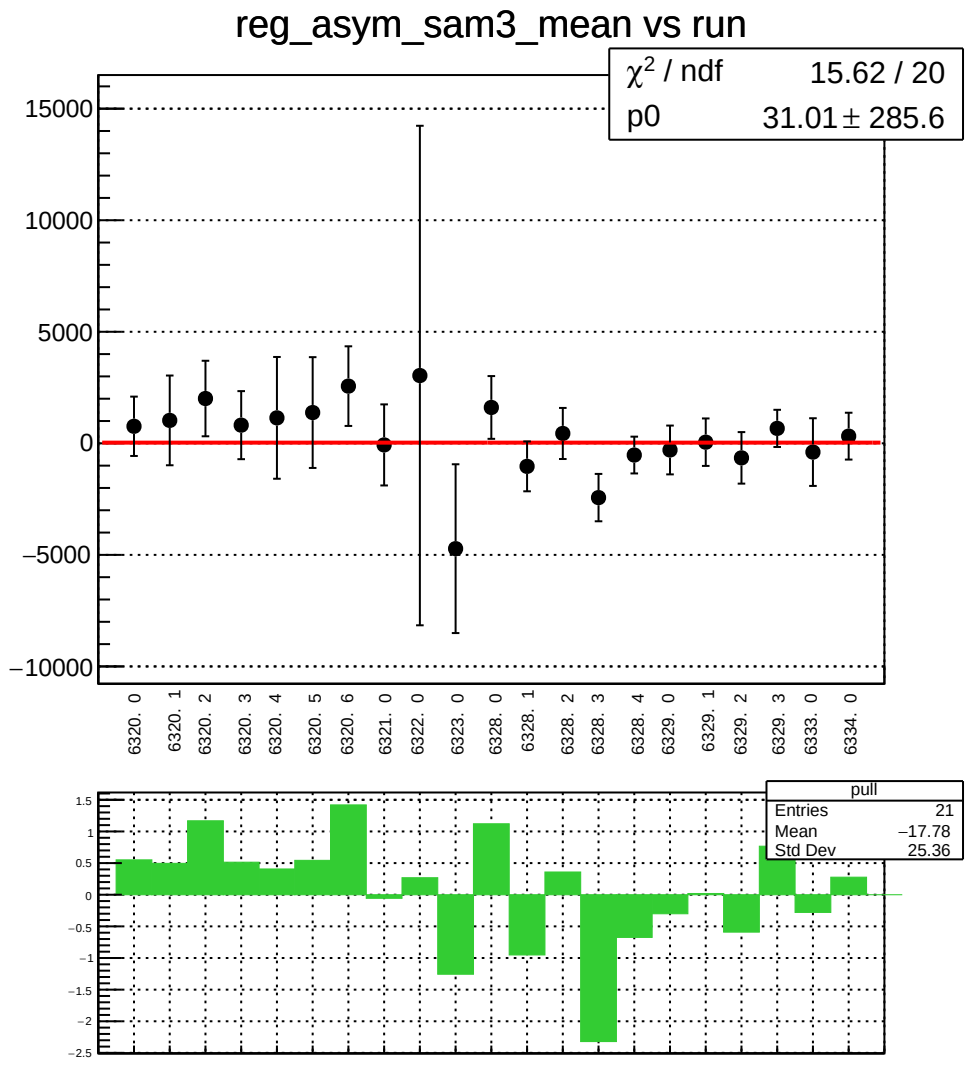

reg_asym_sam2_mean vs run
χ² / ndf 24.53 / 20
p0 752.3 ± 673.5
30000
25000
20000
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.59
Std Dev 31.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

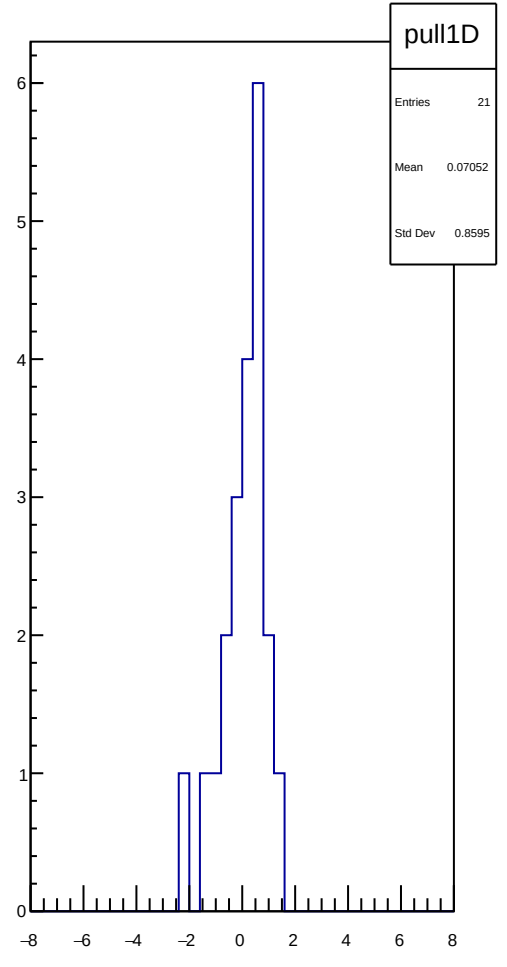

pull1D
Entries 21
Mean 0.09871
Std Dev 1.076
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

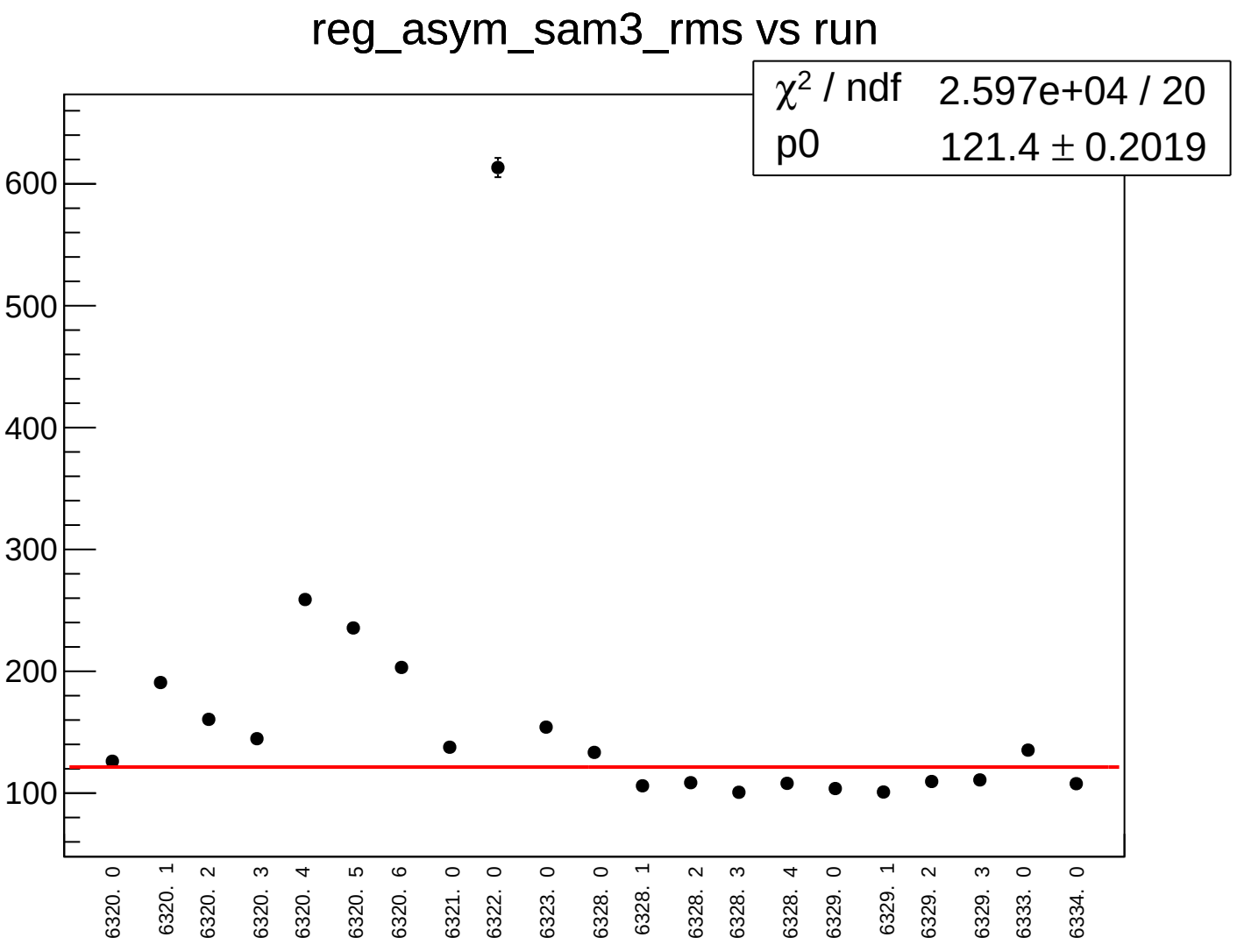

reg_asym_sam2_rms vs run
χ² / ndf 6731 / 20
p0 293.9 ± 0.4763
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

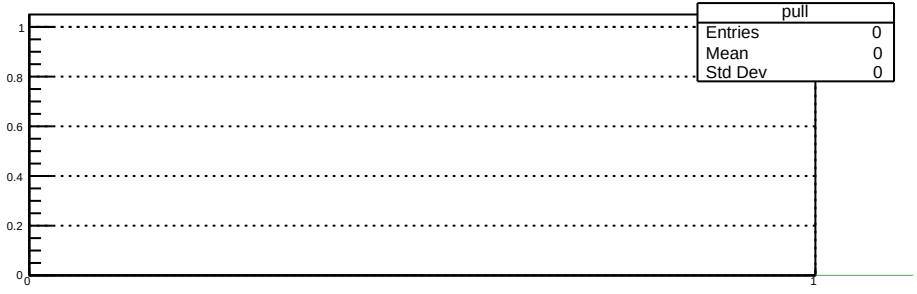

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

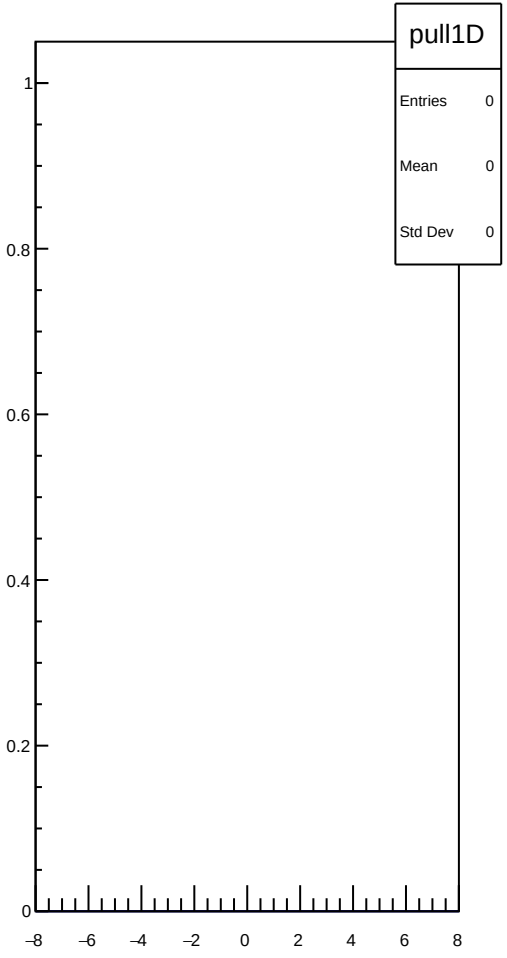

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

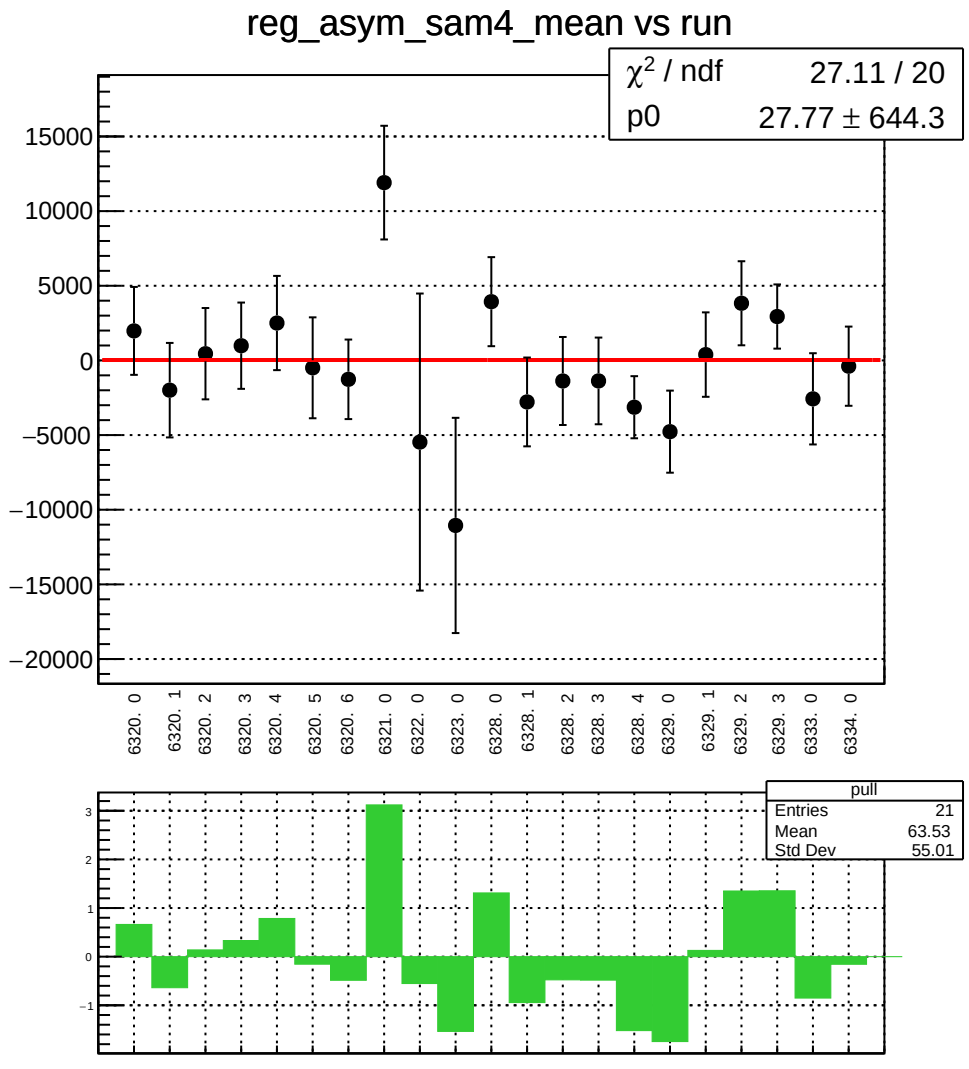

reg_asym_sam3_mean vs run
χ² / ndf 15.62 / 20
p0 31.01 ± 285.6
15000
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −17.78
Std Dev 25.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

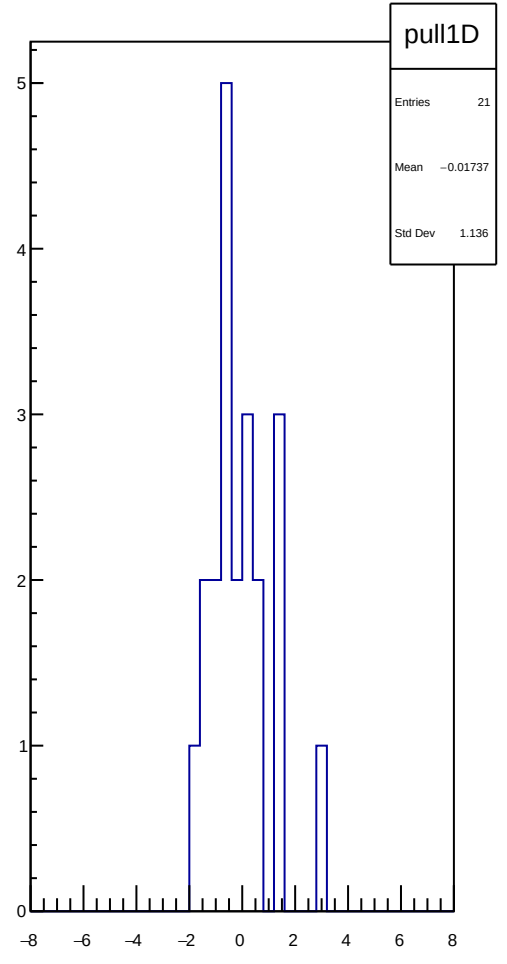

pull1D
Entries 21
Mean 0.07052
Std Dev 0.8595
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

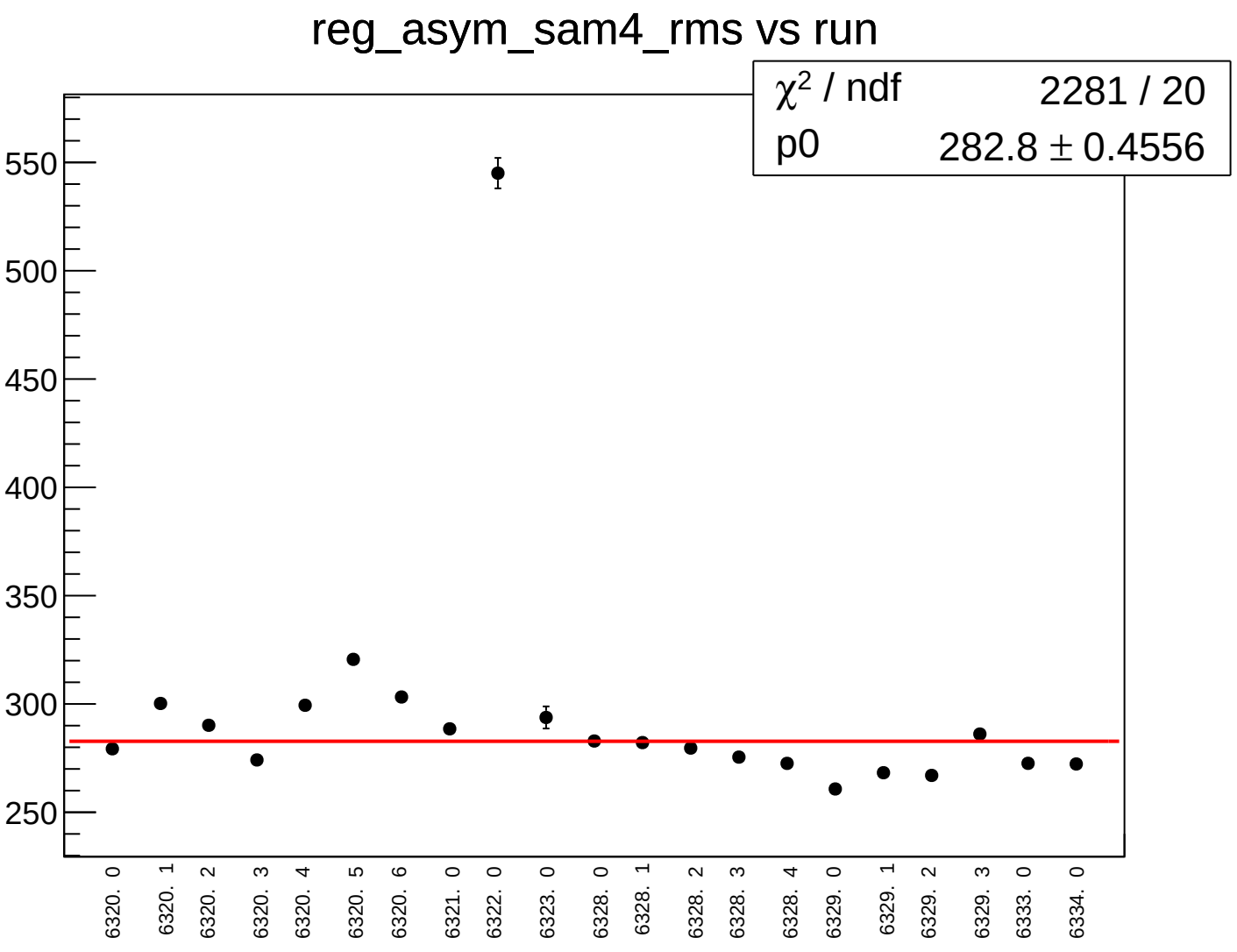

reg_asym_sam3_rms vs run
χ² / ndf 2.597e+04 / 20
p0 121.4 ± 0.2019
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

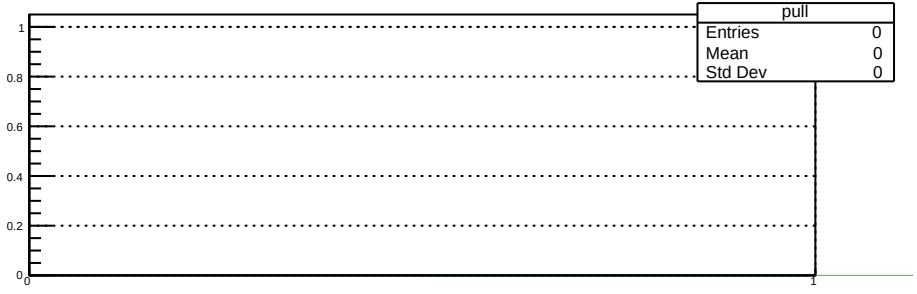

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

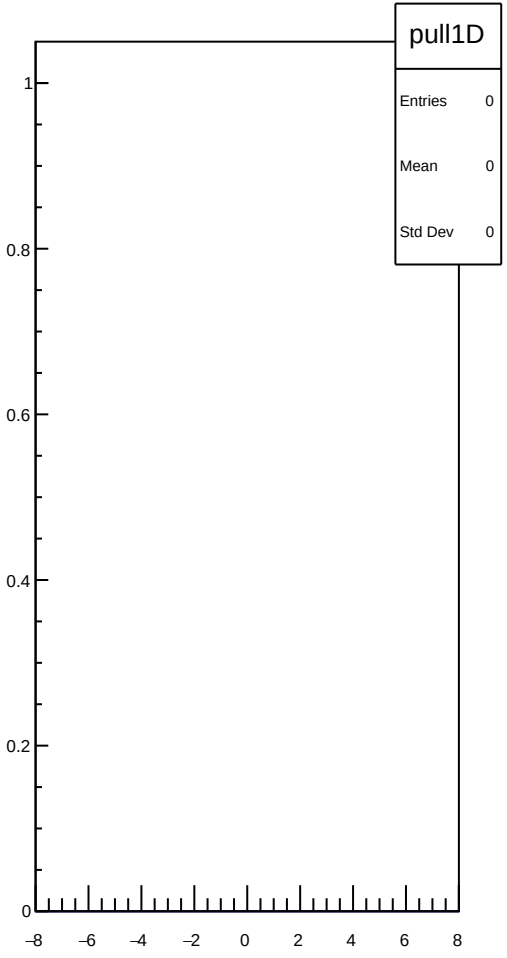

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

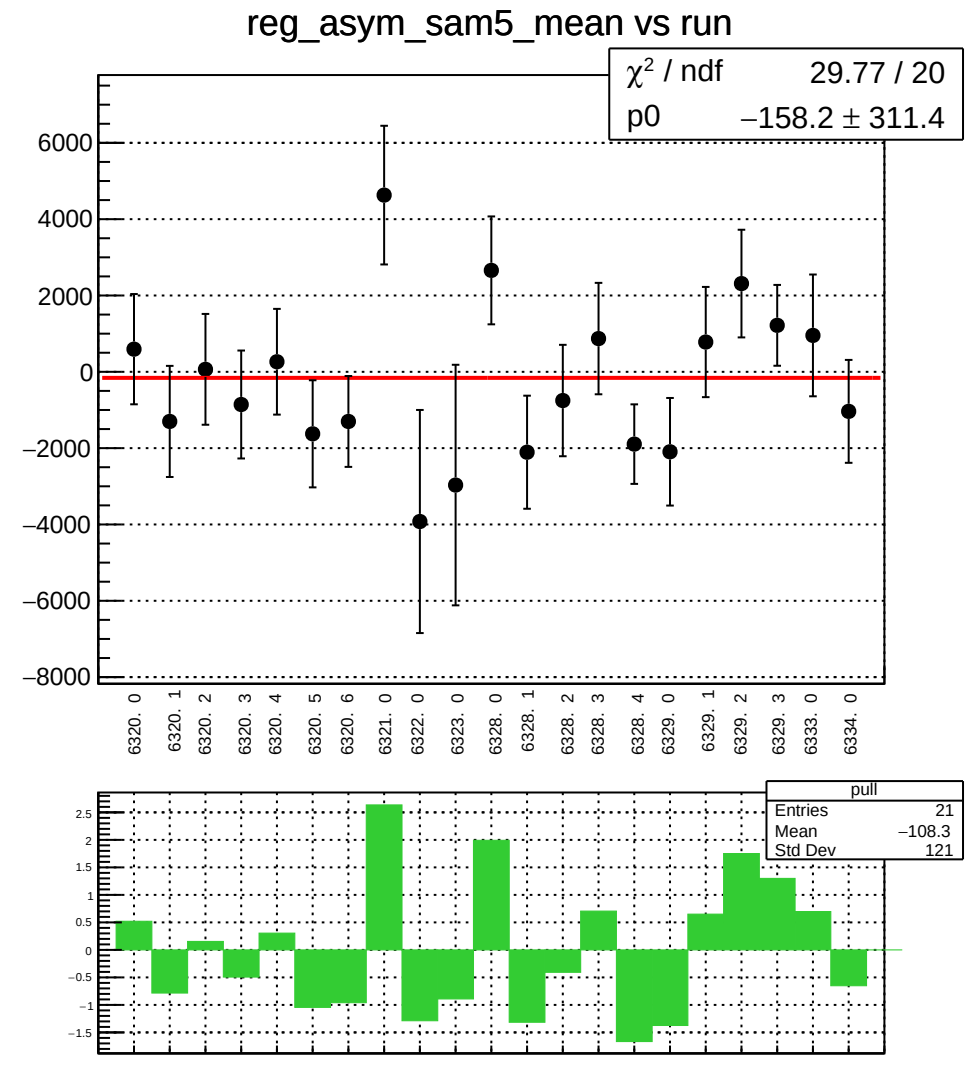

reg_asym_sam4_mean vs run
χ² / ndf 27.11 / 20
p0 27.77 ± 644.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 63.53
Std Dev 55.01
3
2
1
0
−1

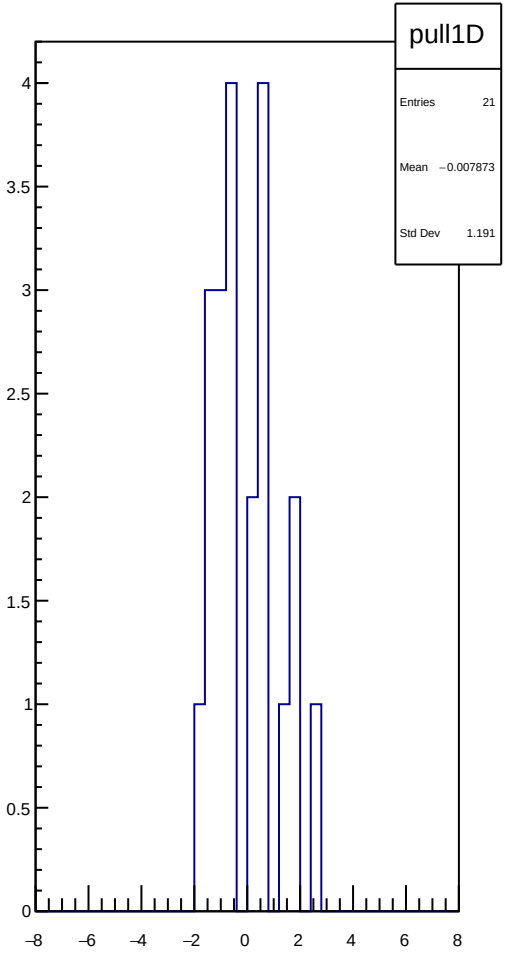

pull1D
Entries 21
Mean −0.01737
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

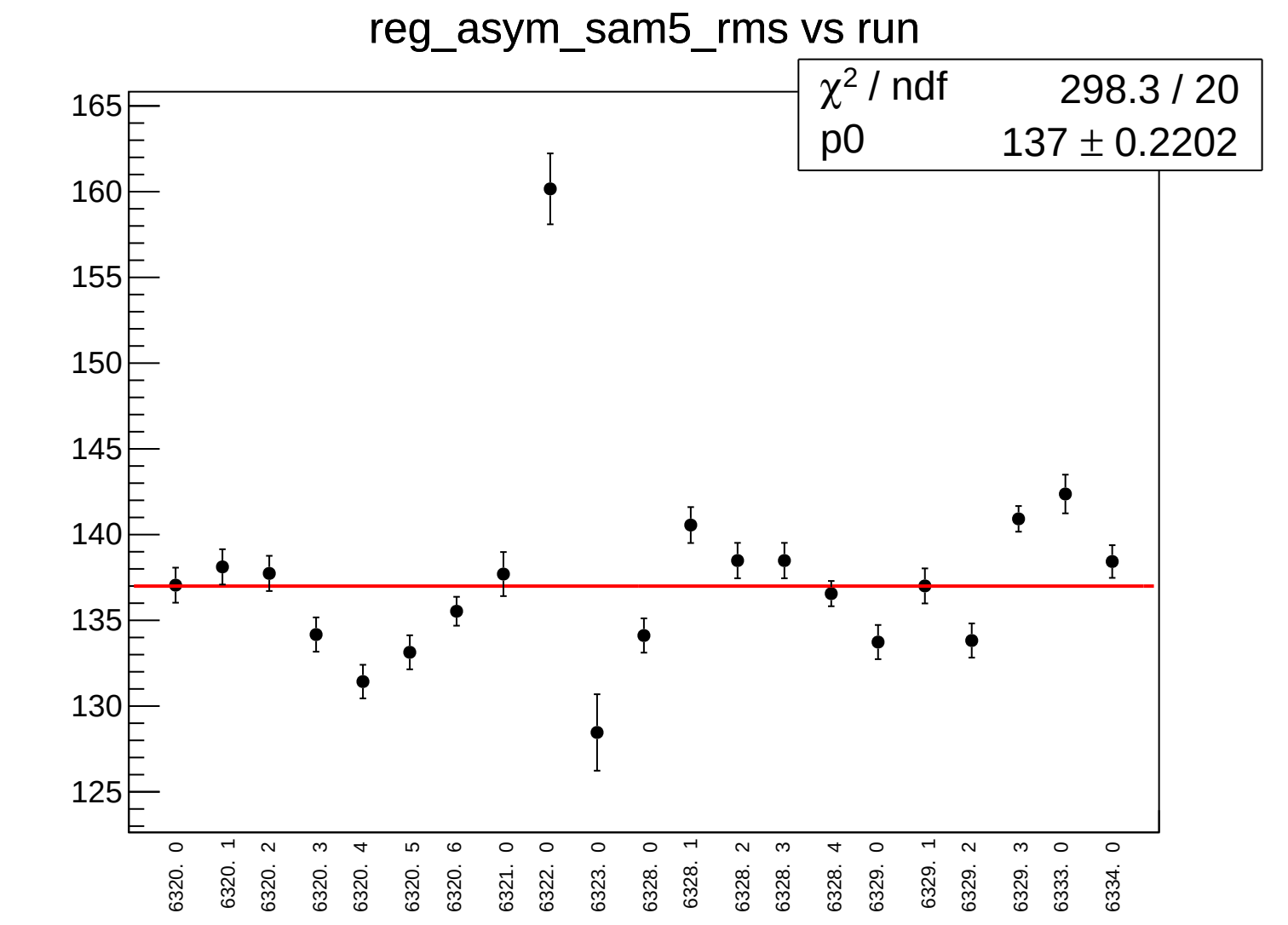

reg_asym_sam4_rms vs run
χ² / ndf 2281 / 20
p0 282.8 ± 0.4556
550
500
450
400
350
300
250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

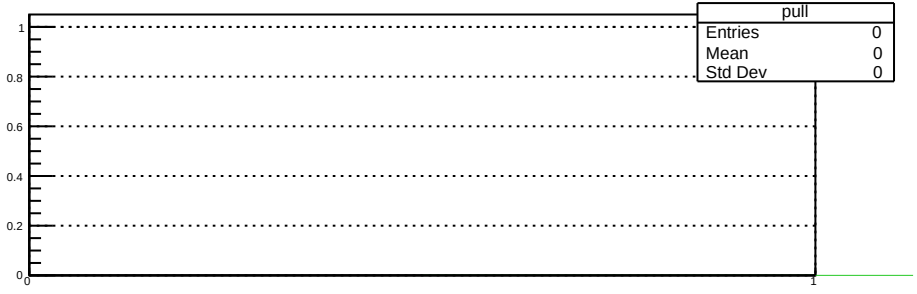

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

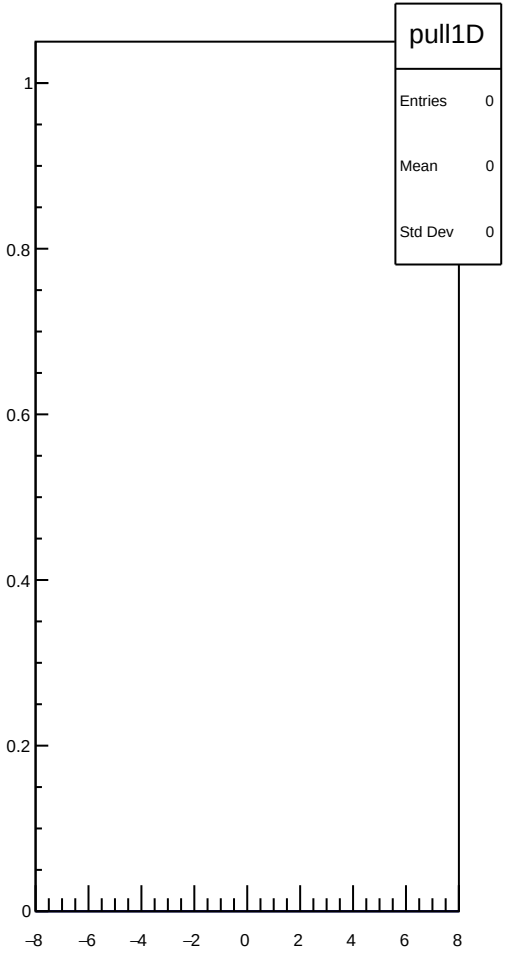

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

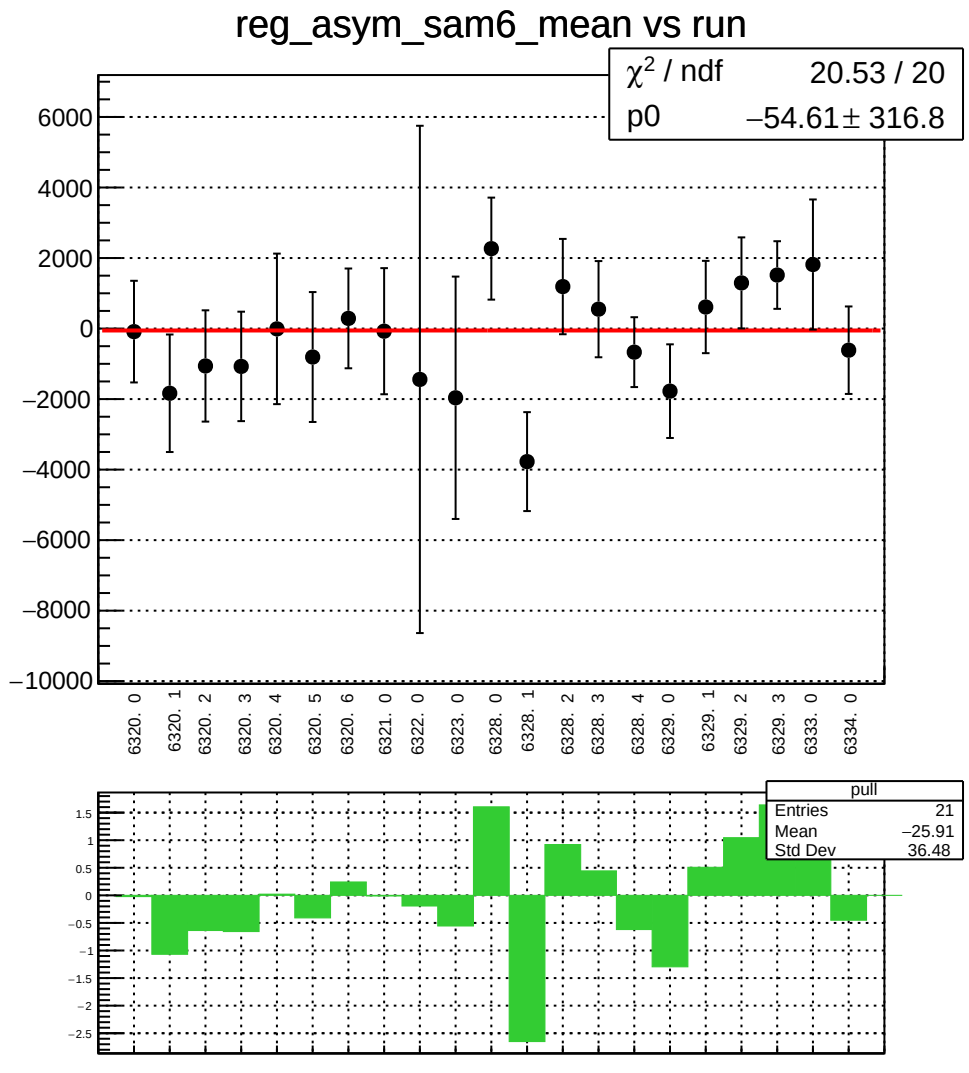

reg_asym_sam5_mean vs run
χ² / ndf 29.77 / 20
p0 −158.2 ± 311.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −108.3
Std Dev 121
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

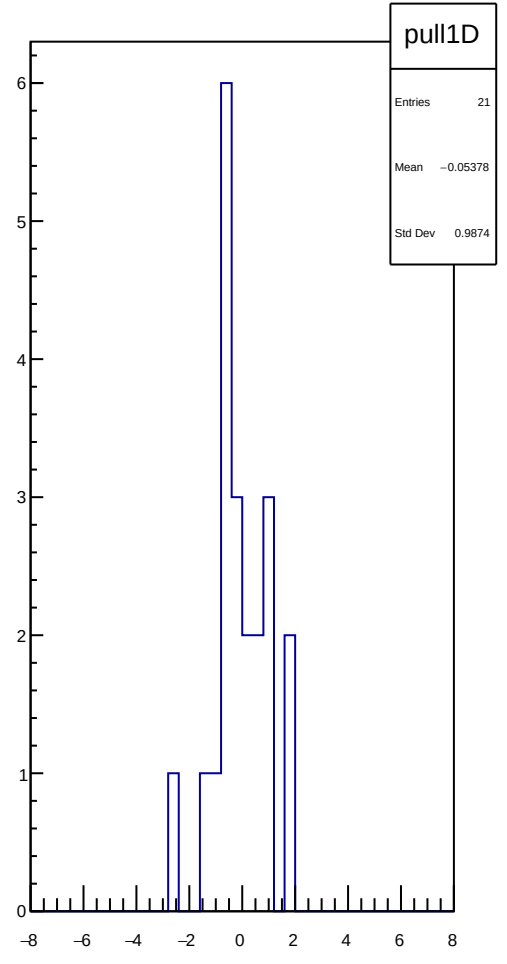

pull1D
Entries 21
Mean −0.007873
Std Dev 1.191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

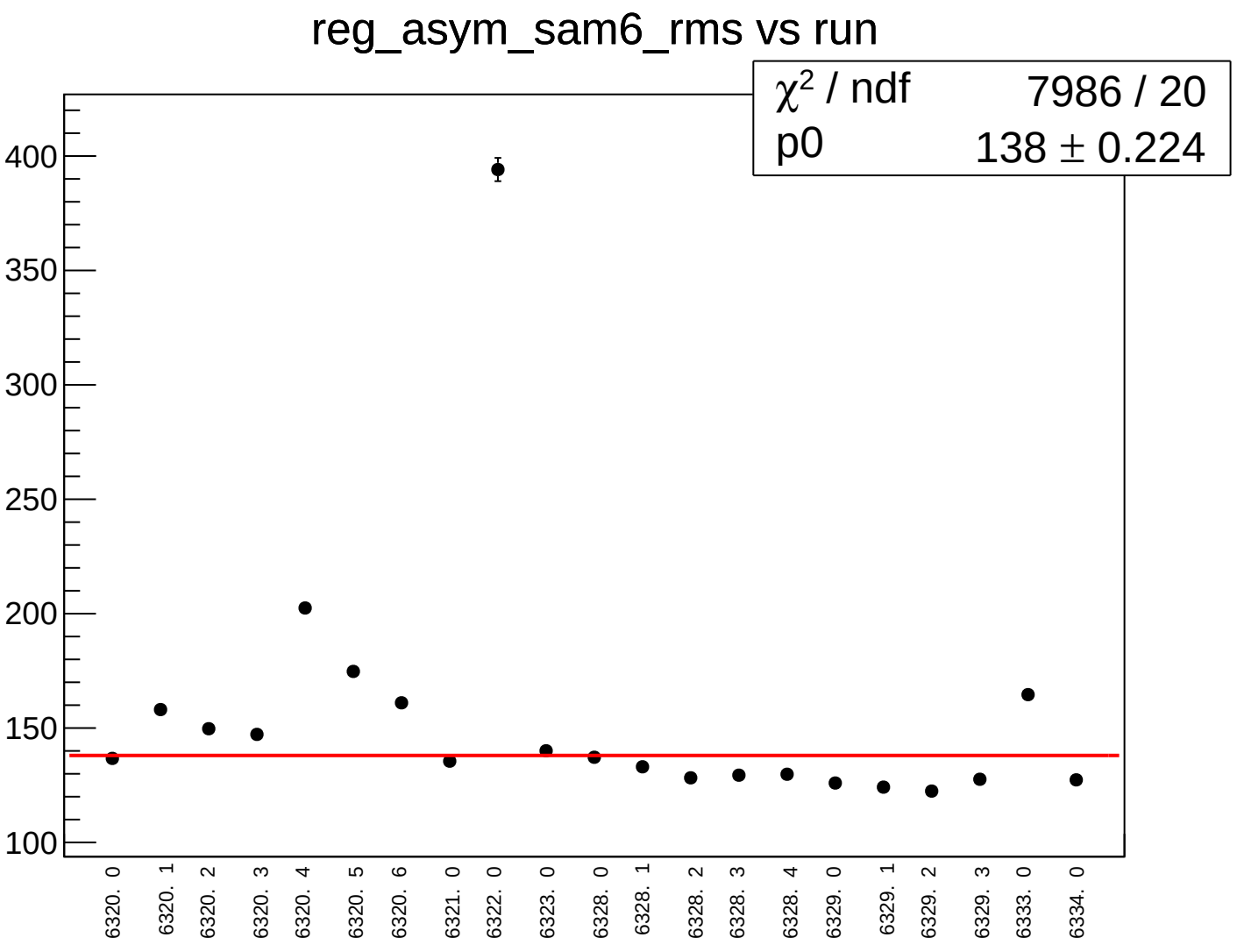

reg_asym_sam5_rms vs run
χ² / ndf 298.3 / 20
p0 137 ± 0.2202
165
160
155
150
145
140
135
130
125
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

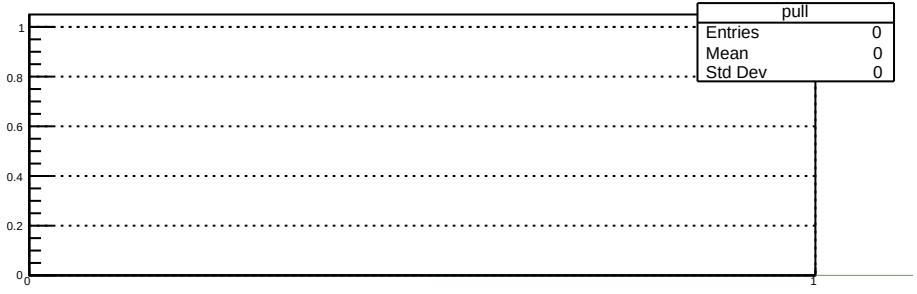

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

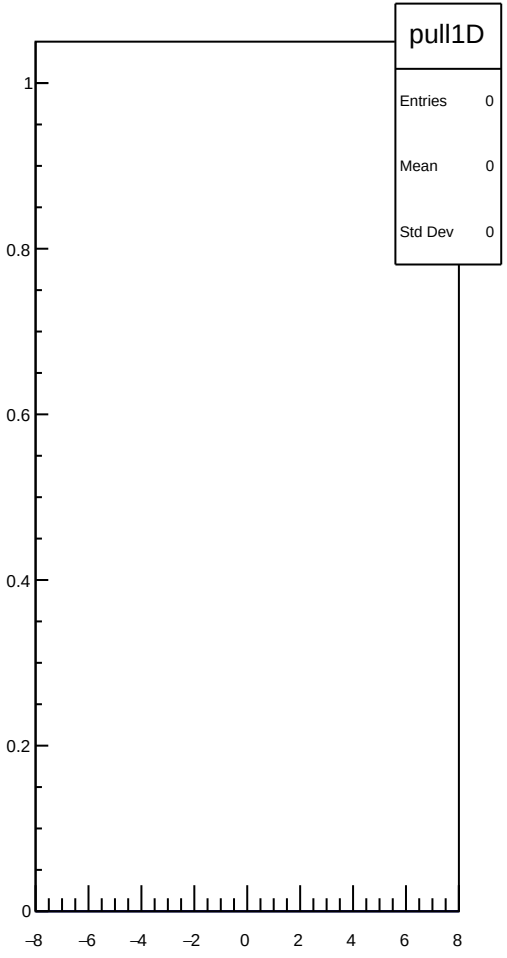

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

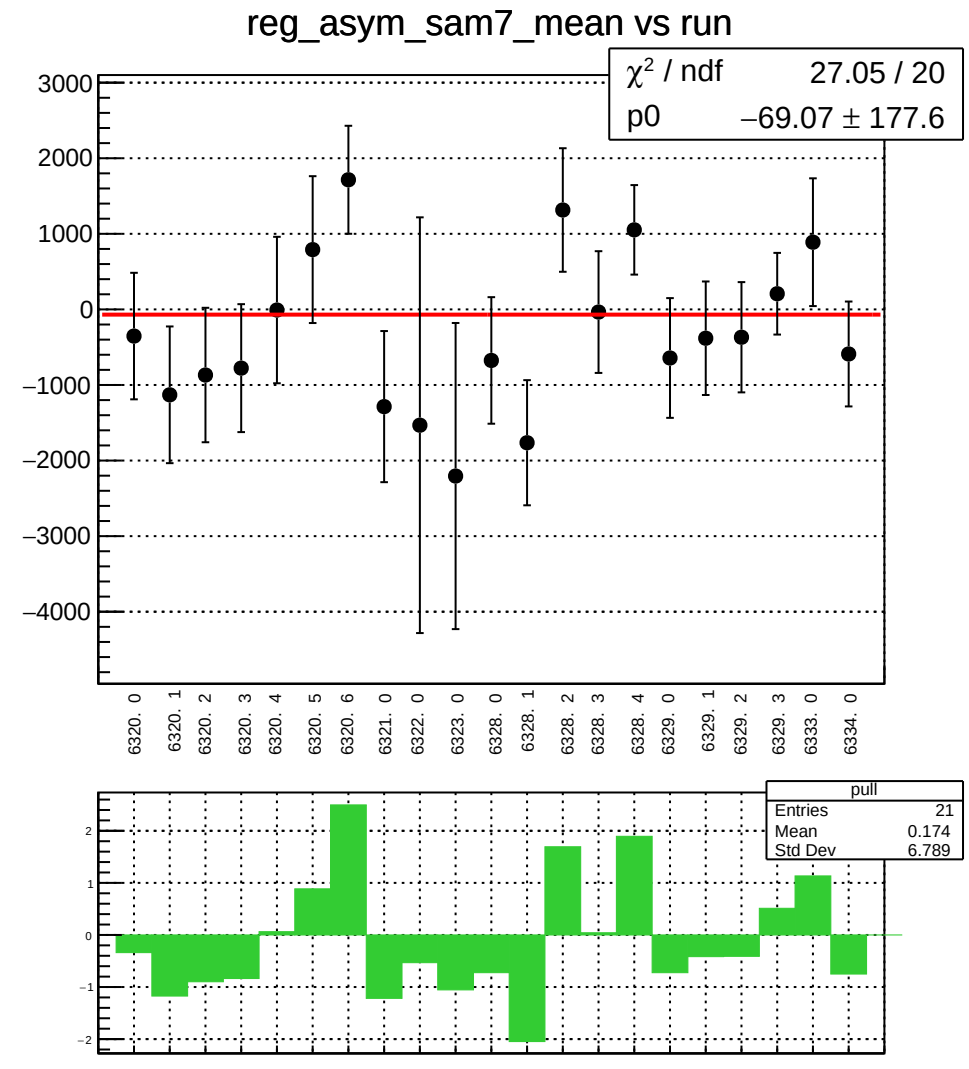

reg_asym_sam6_mean vs run
χ² / ndf 20.53 / 20
p0 −54.61 ± 316.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.91
Std Dev 36.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

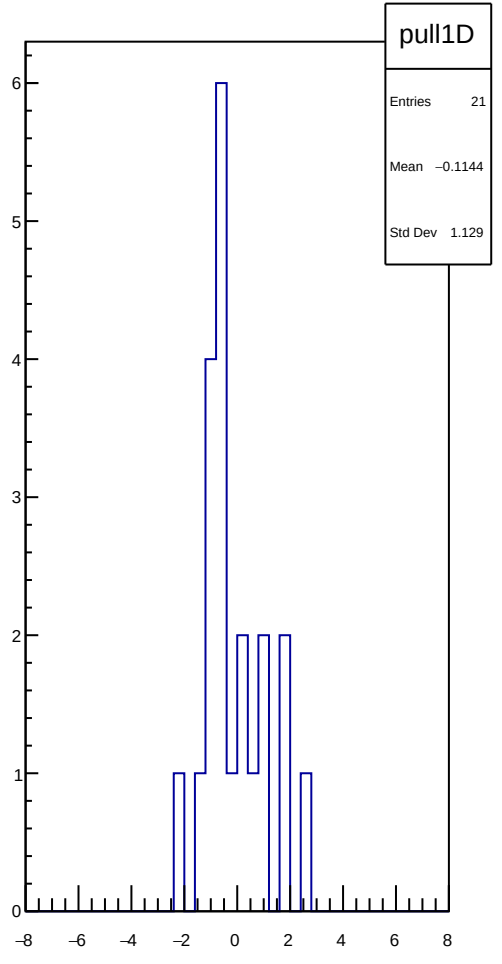

pull1D
Entries 21
Mean −0.05378
Std Dev 0.9874
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

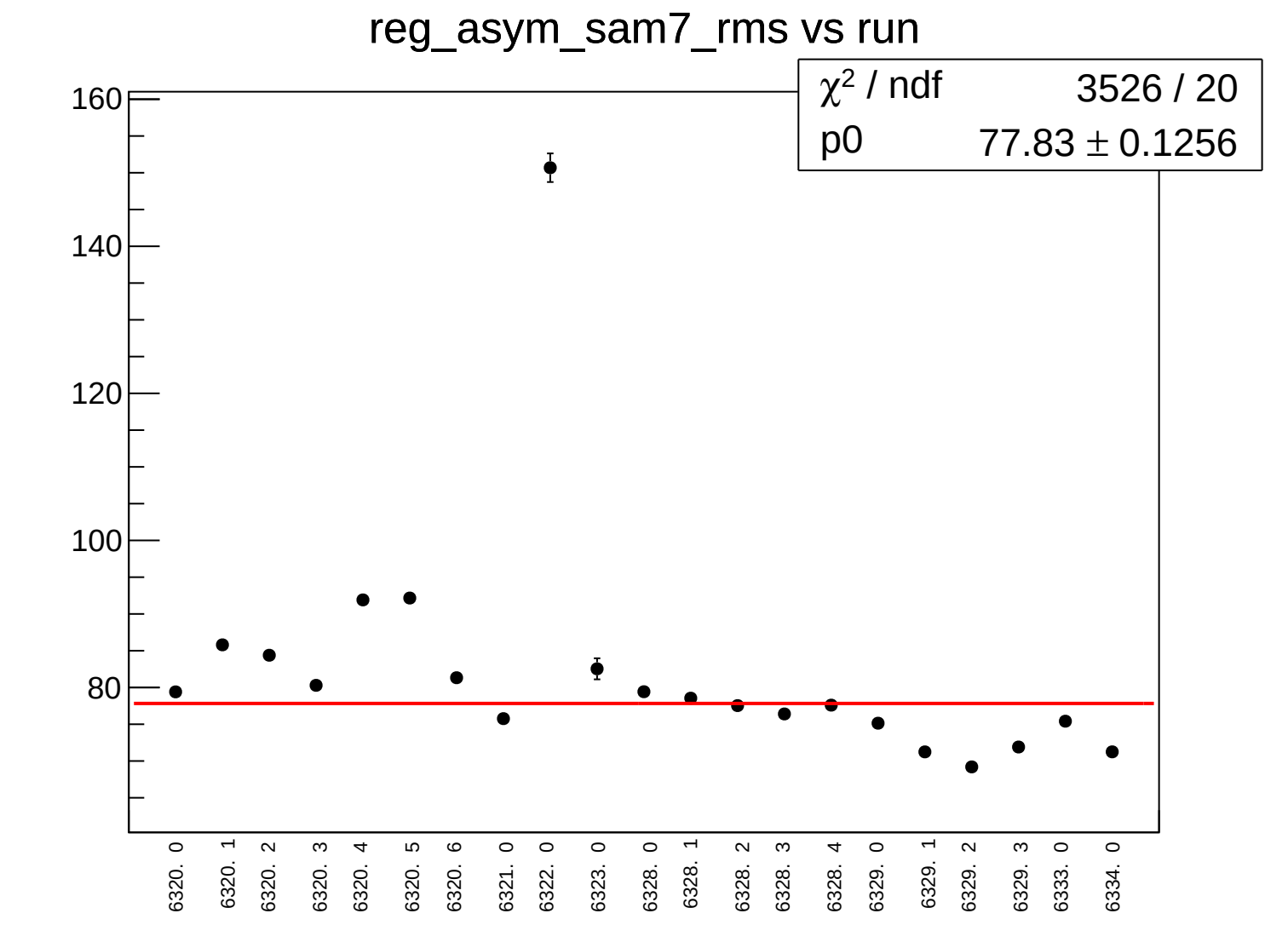

reg_asym_sam6_rms vs run
χ² / ndf 7986 / 20
p0 138 ± 0.224
400
350
300
250
200
150
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

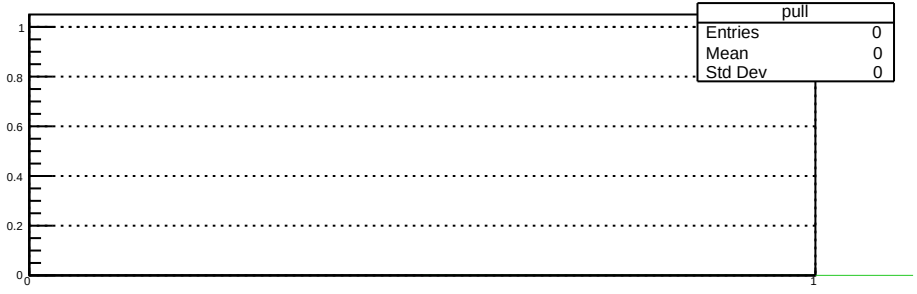

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

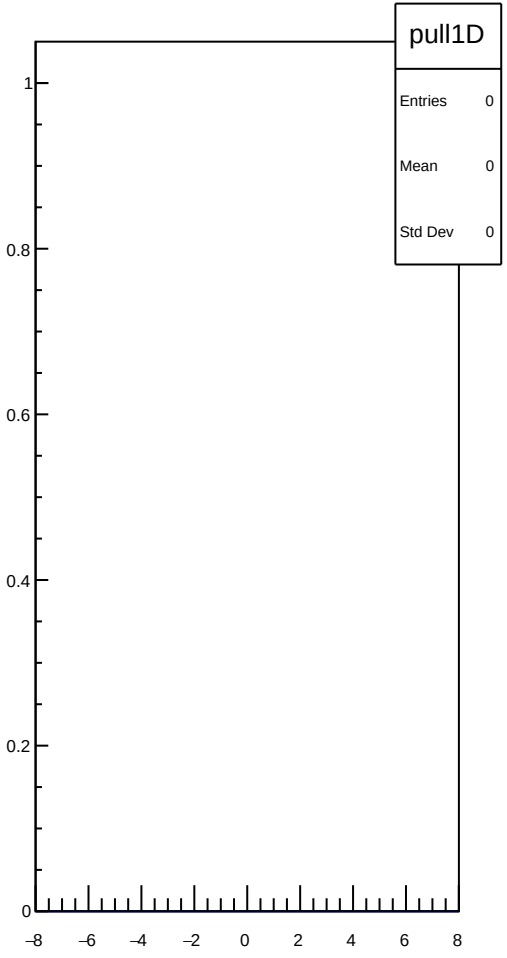

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

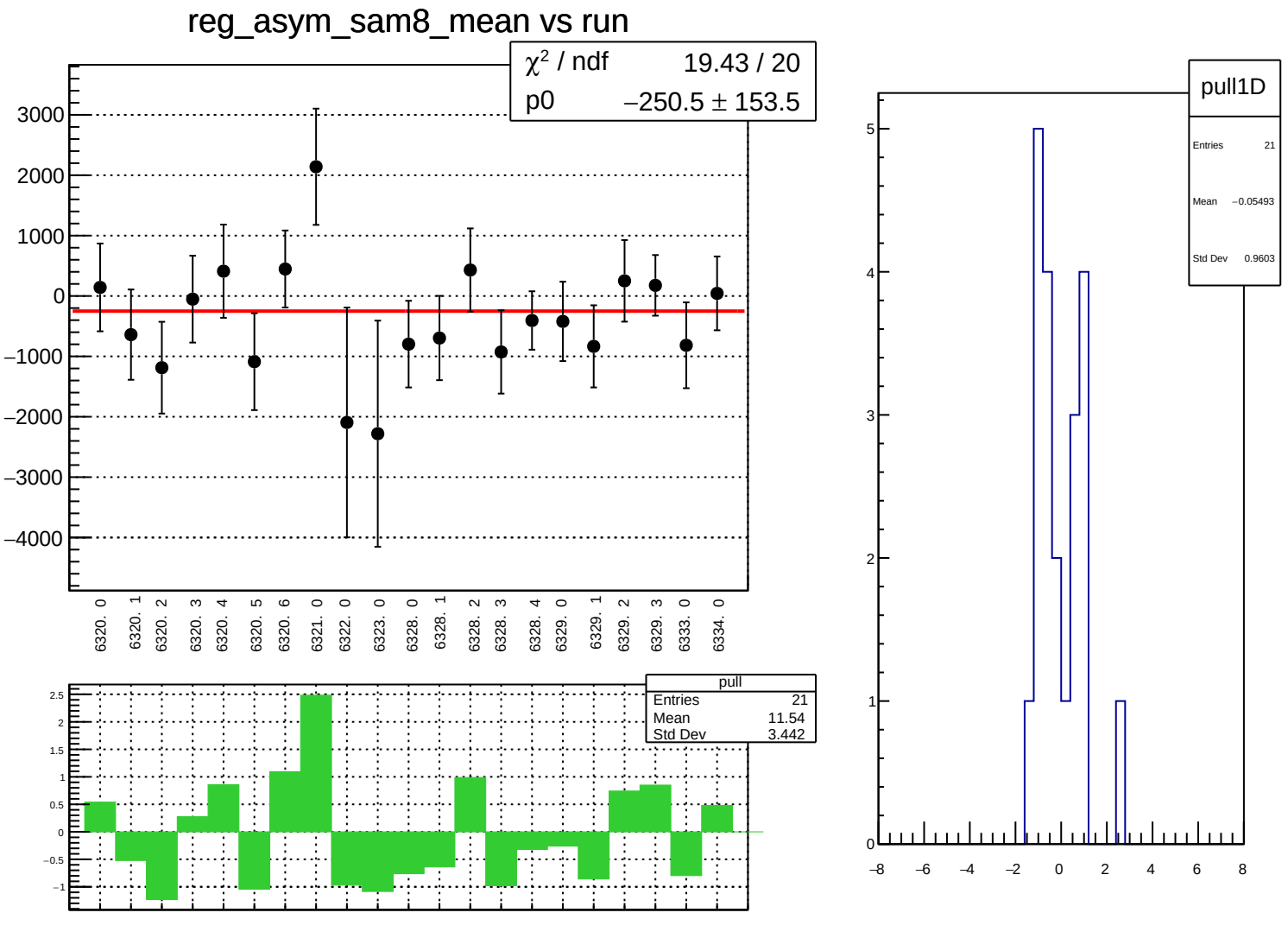

reg_asym_sam7_mean vs run
χ² / ndf 27.05 / 20
p0 −69.07 ± 177.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.174
Std Dev 6.789
2
1
0
−1
−2

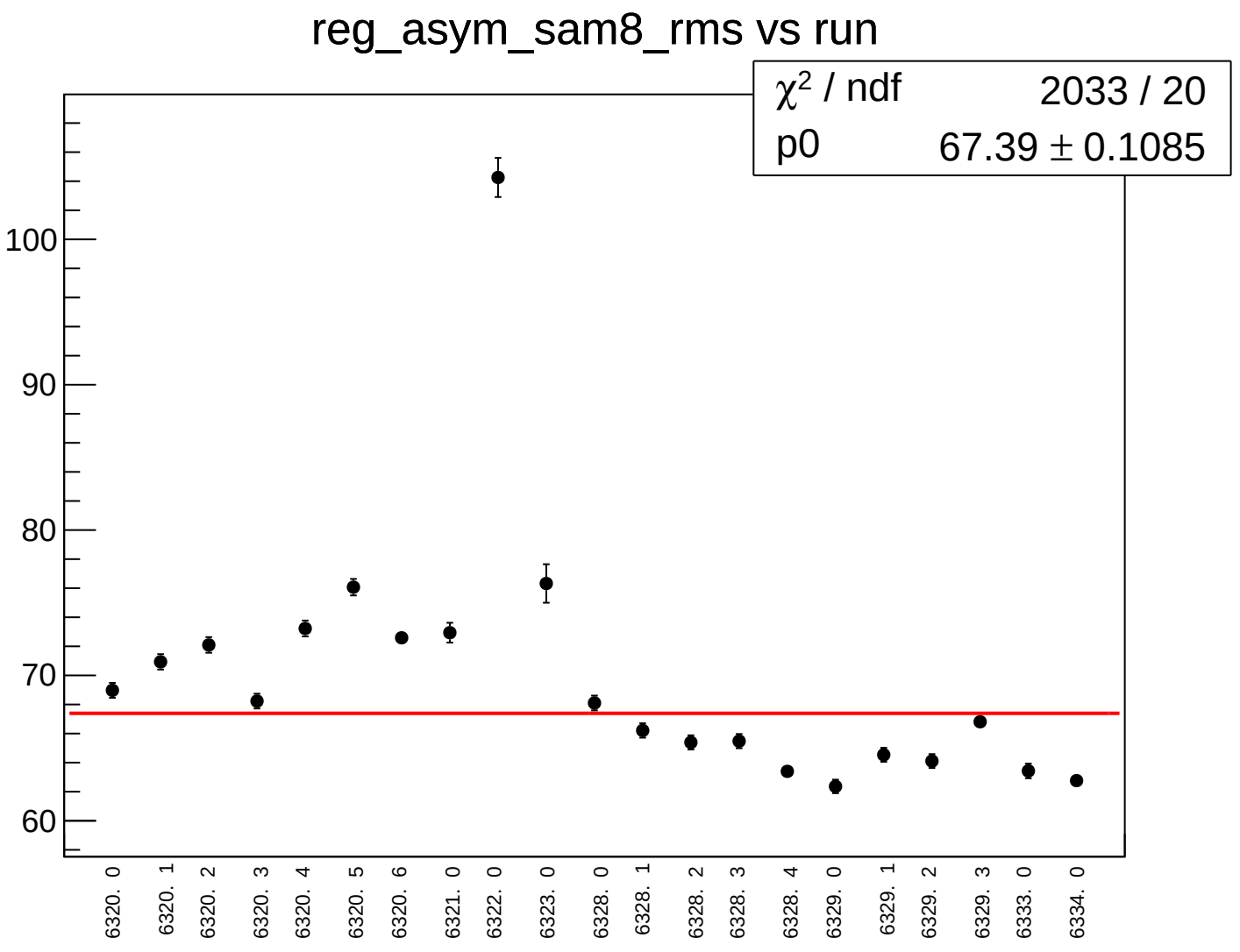

pull1D
Entries 21
Mean −0.1144
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

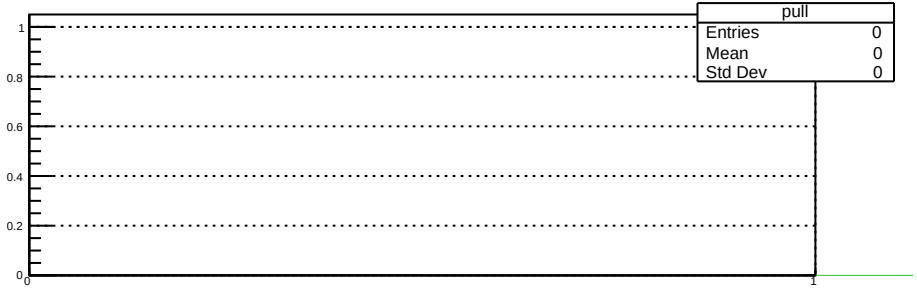

reg_asym_sam7_rms vs run
χ² / ndf 3526 / 20
p0 77.83 ± 0.1256
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

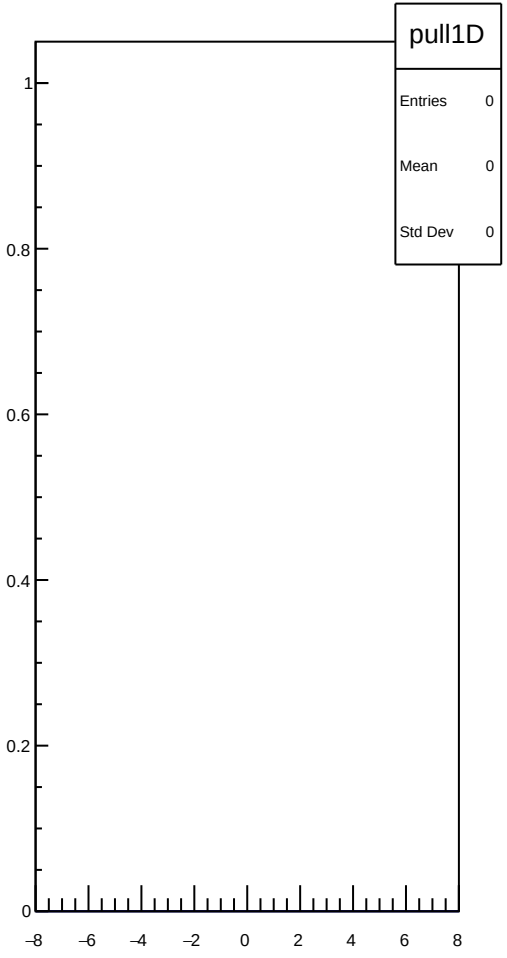

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

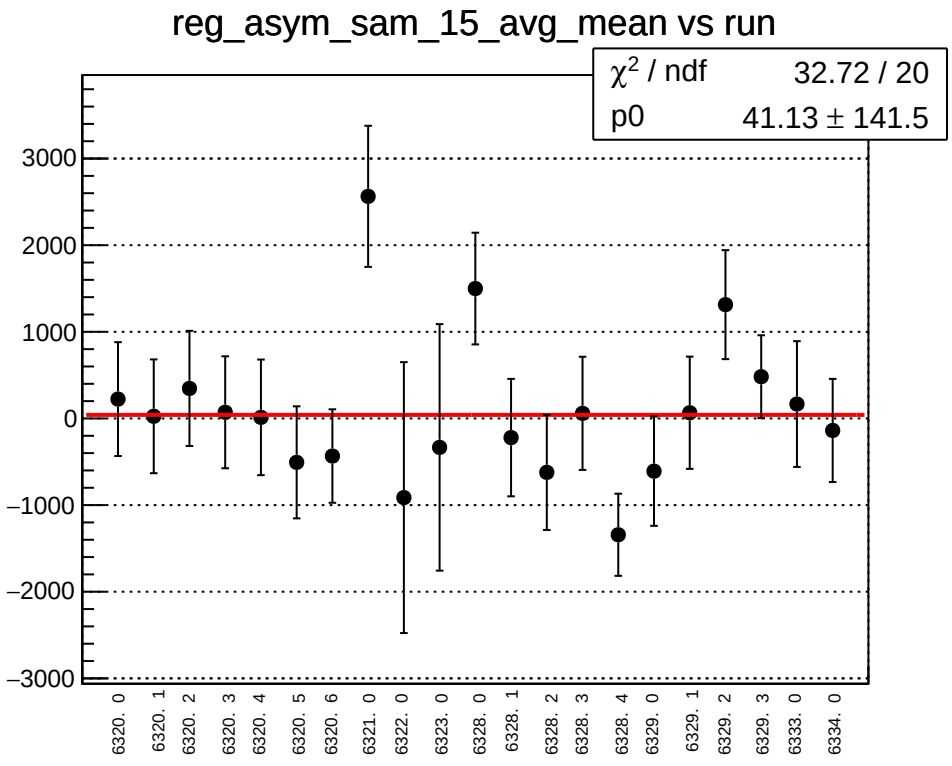

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

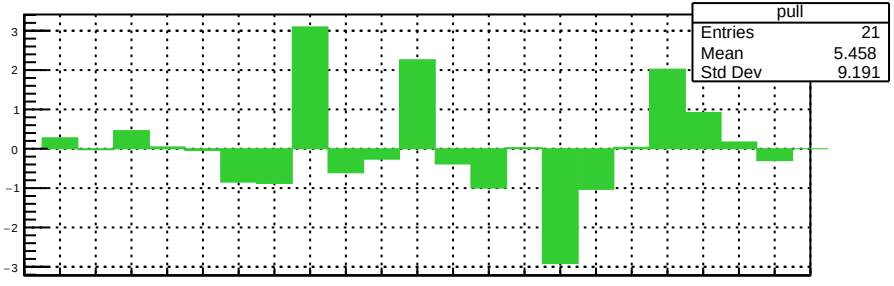

reg_asym_sam8_mean vs run
χ² / ndf 19.43 / 20
p0 −250.5 ± 153.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 11.54
Std Dev 3.442
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.05493
Std Dev 0.9603
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

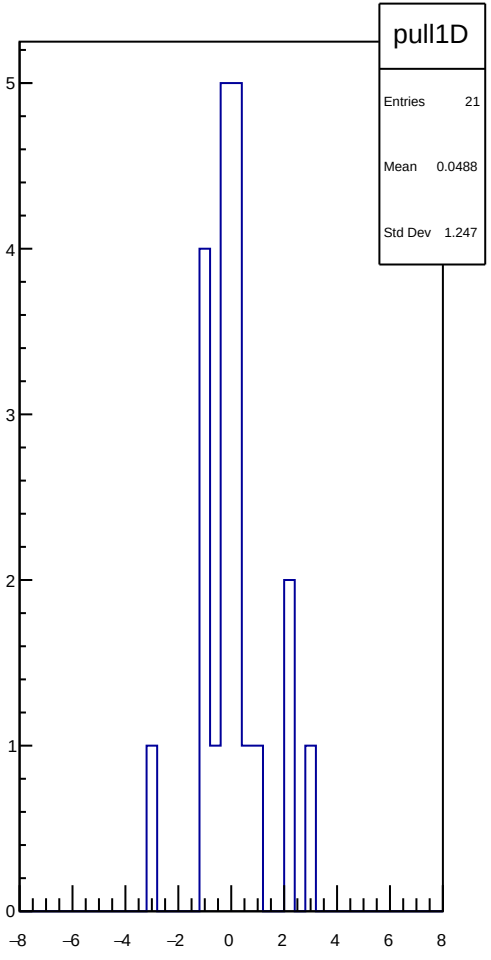

reg_asym_sam8_rms vs run
χ² / ndf 2033 / 20
p0 67.39 ± 0.1085
100
90
80
70
60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

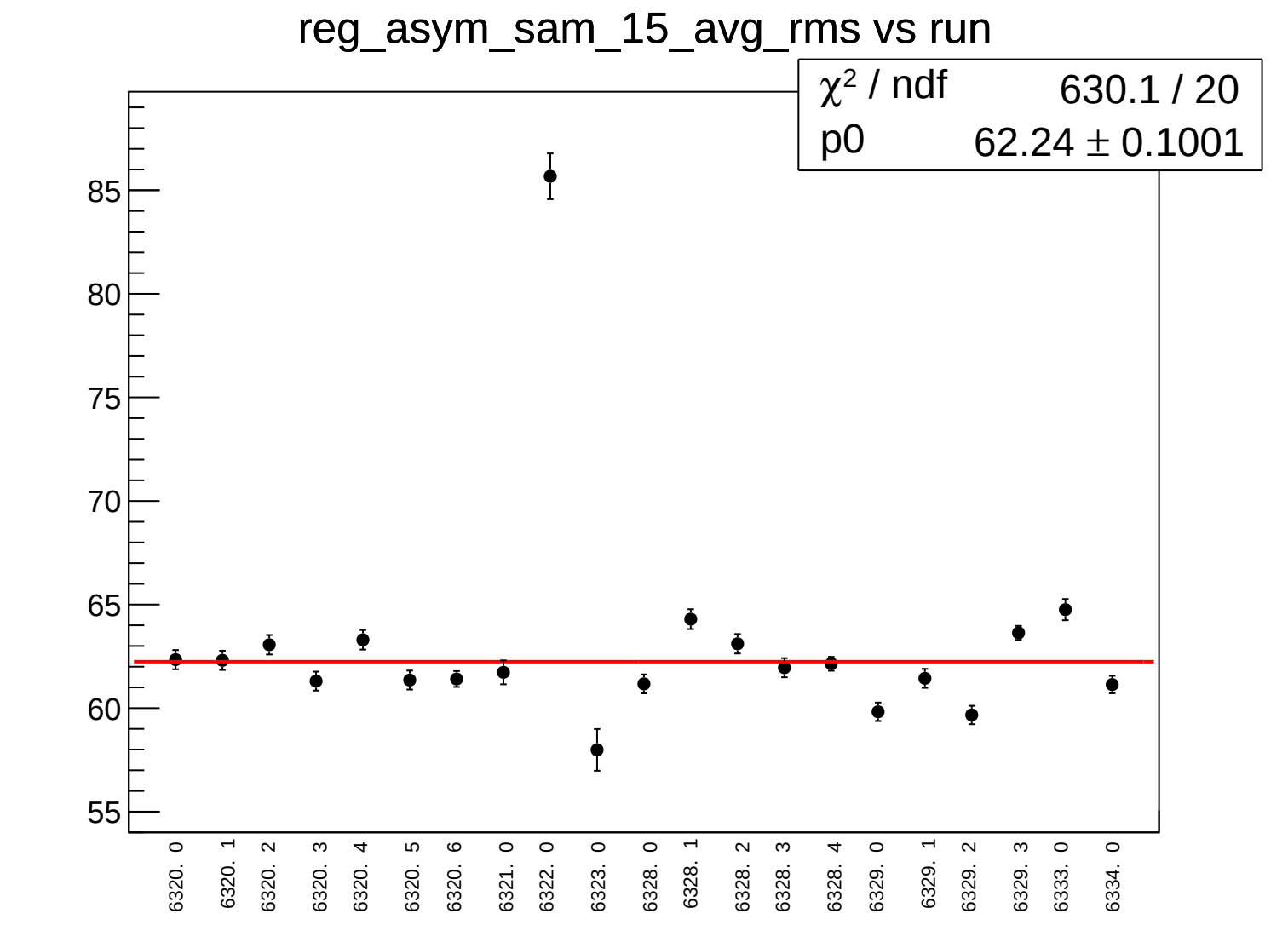

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

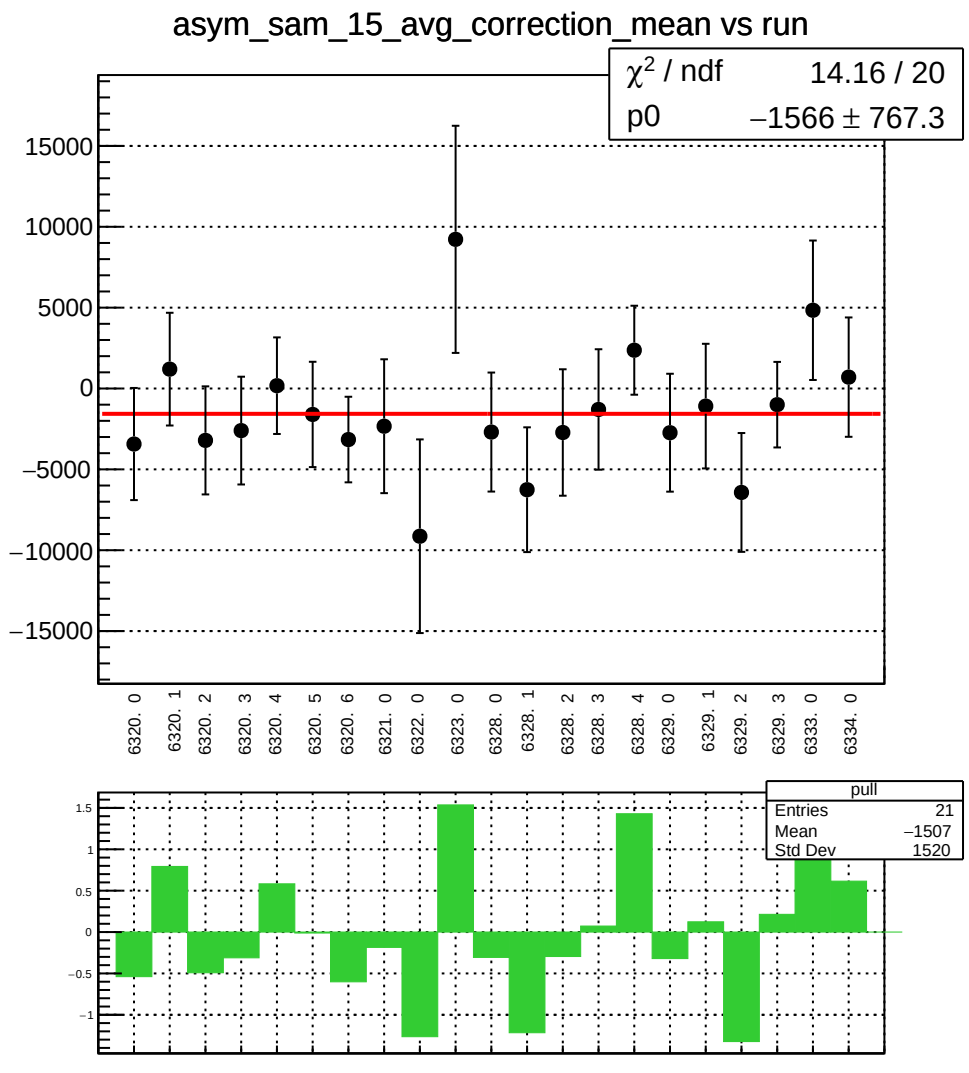

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

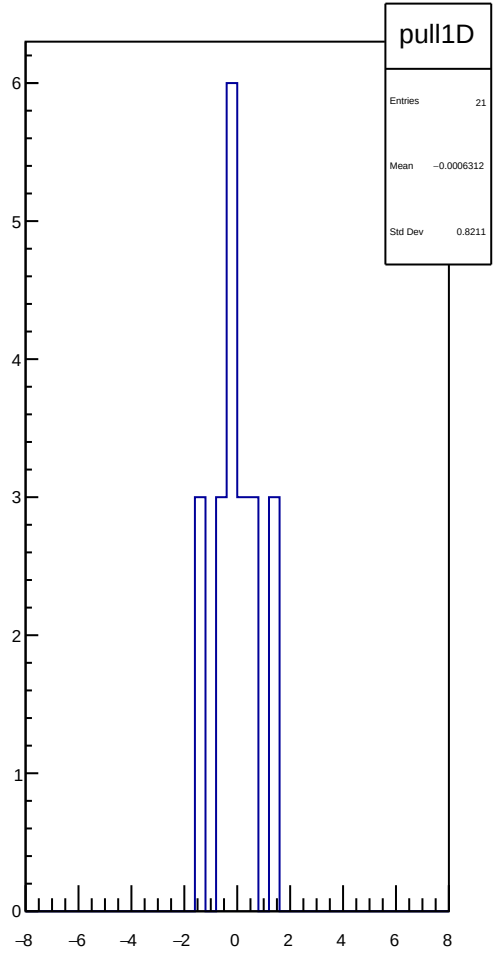

reg_asym_sam_15_avg_mean vs run
χ² / ndf 32.72 / 20
p0 41.13 ± 141.5
3000
2000
1000
0
−1000
−2000
−3000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

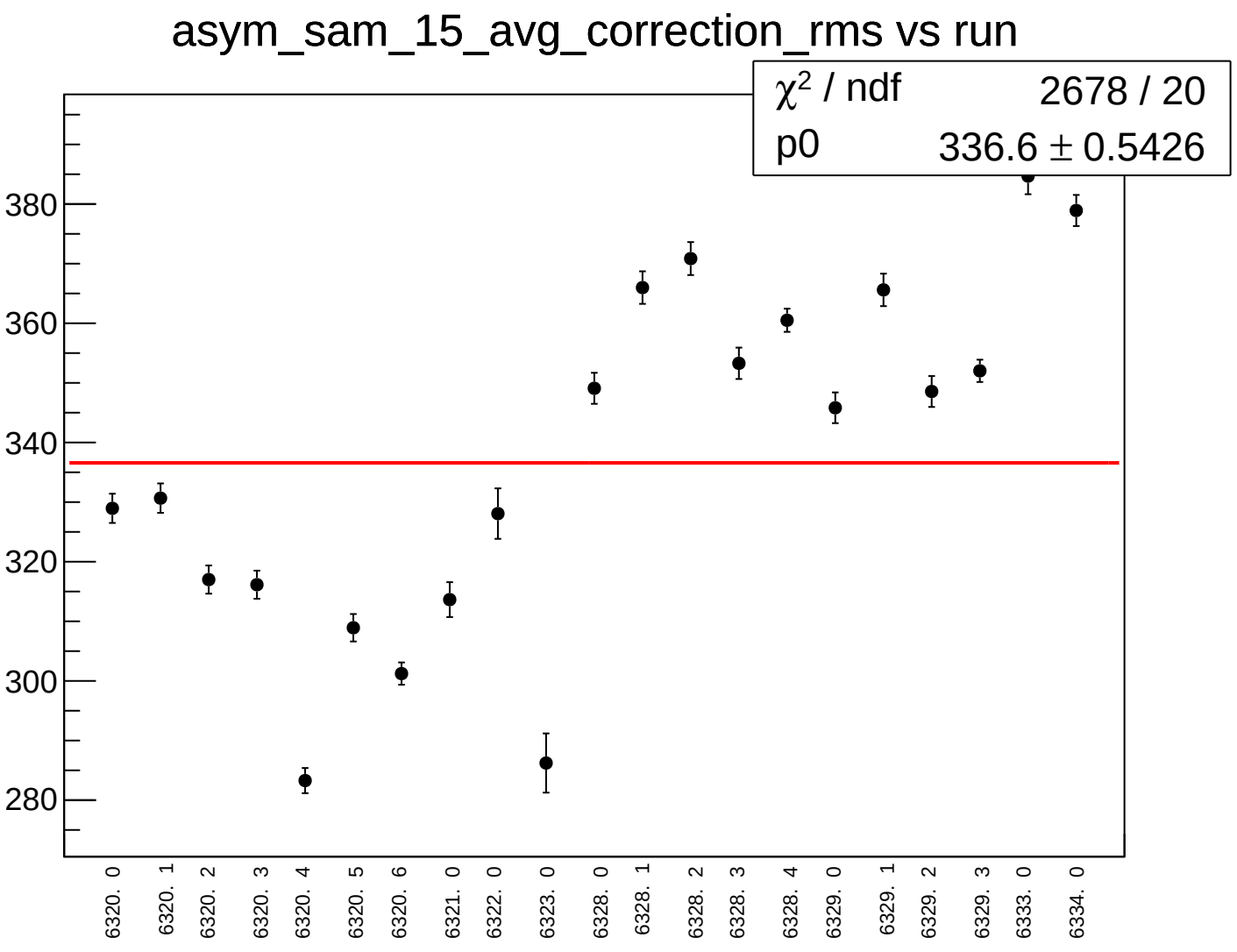

pull
Entries 21
Mean 5.458
Std Dev 9.191
3
2
1
0
−1
−2
−3

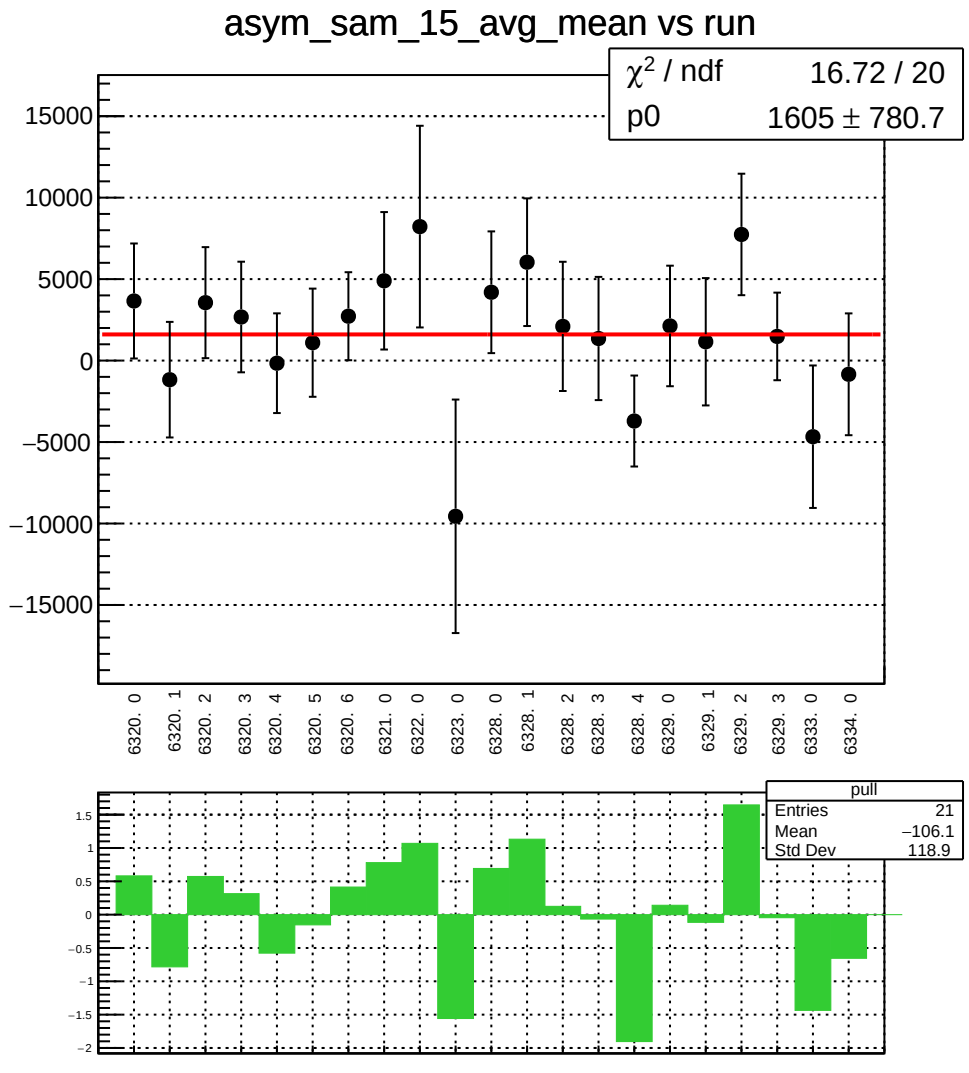

pull1D
Entries 21
Mean 0.0488
Std Dev 1.247
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

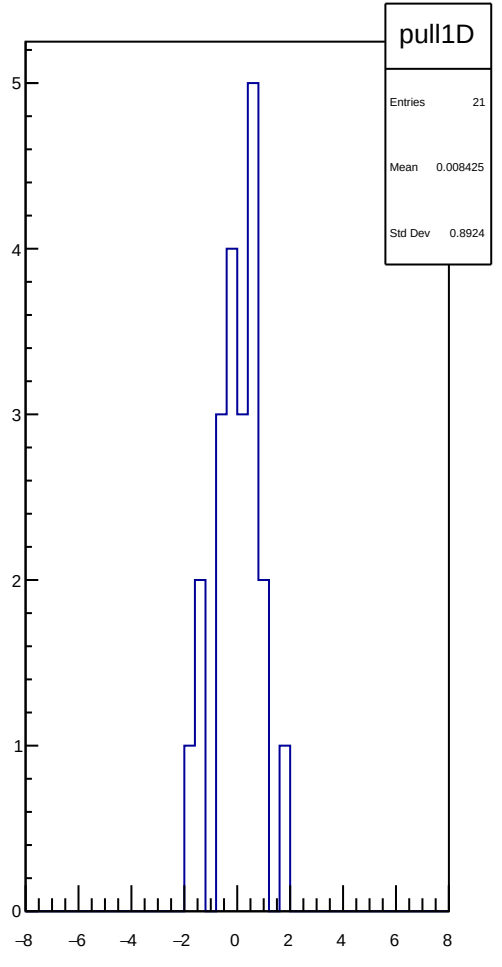

reg_asym_sam_15_avg_rms vs run
χ² / ndf 630.1 / 20
p0 62.24 ± 0.1001
85
80
75
70
65
60
55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

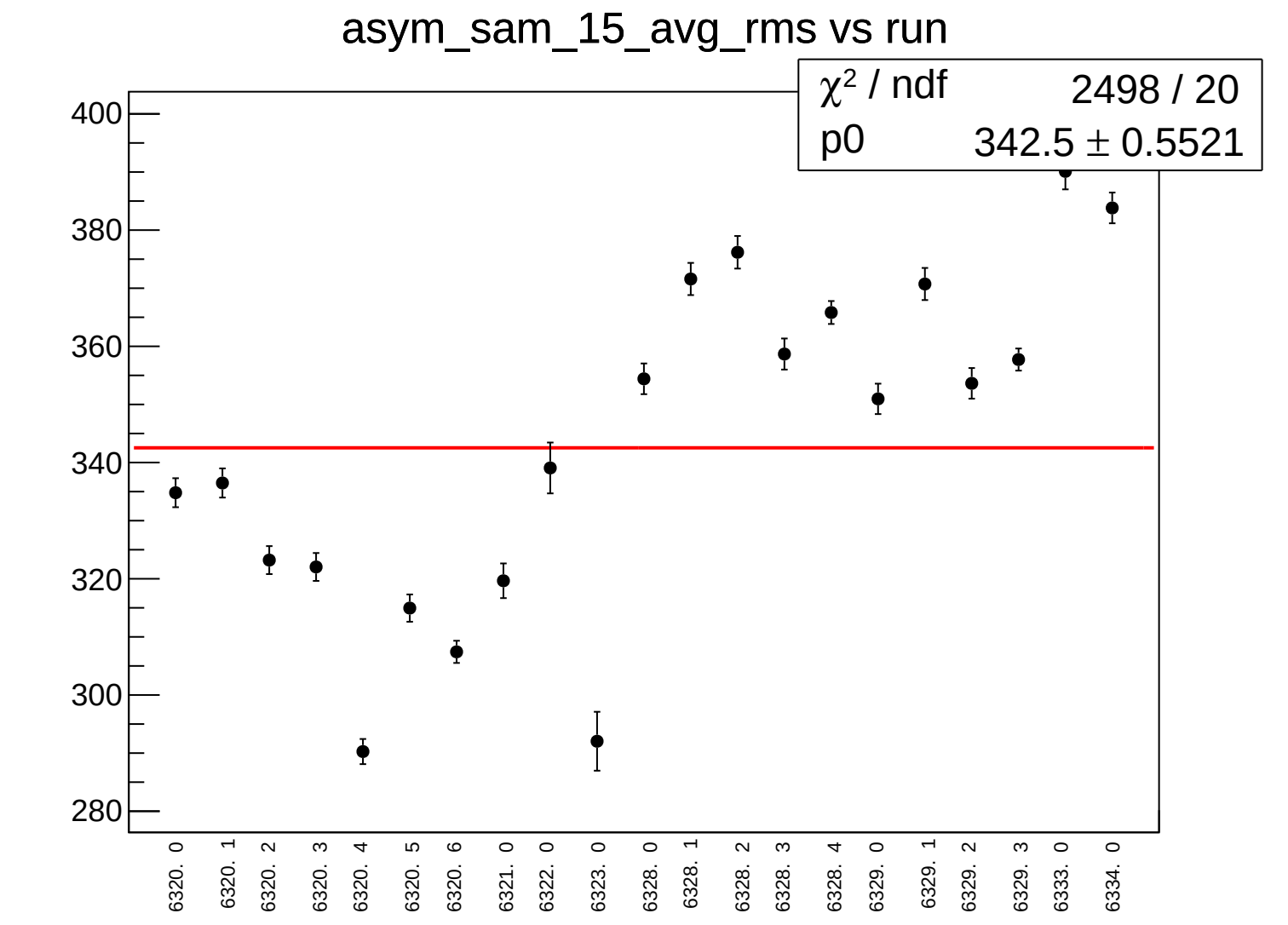

asym_sam_15_avg_correction_mean vs run
χ² / ndf 14.16 / 20
p0 −1566 ± 767.3
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1507
Std Dev 1520
1.5
1
0.5
0
−0.5
−1

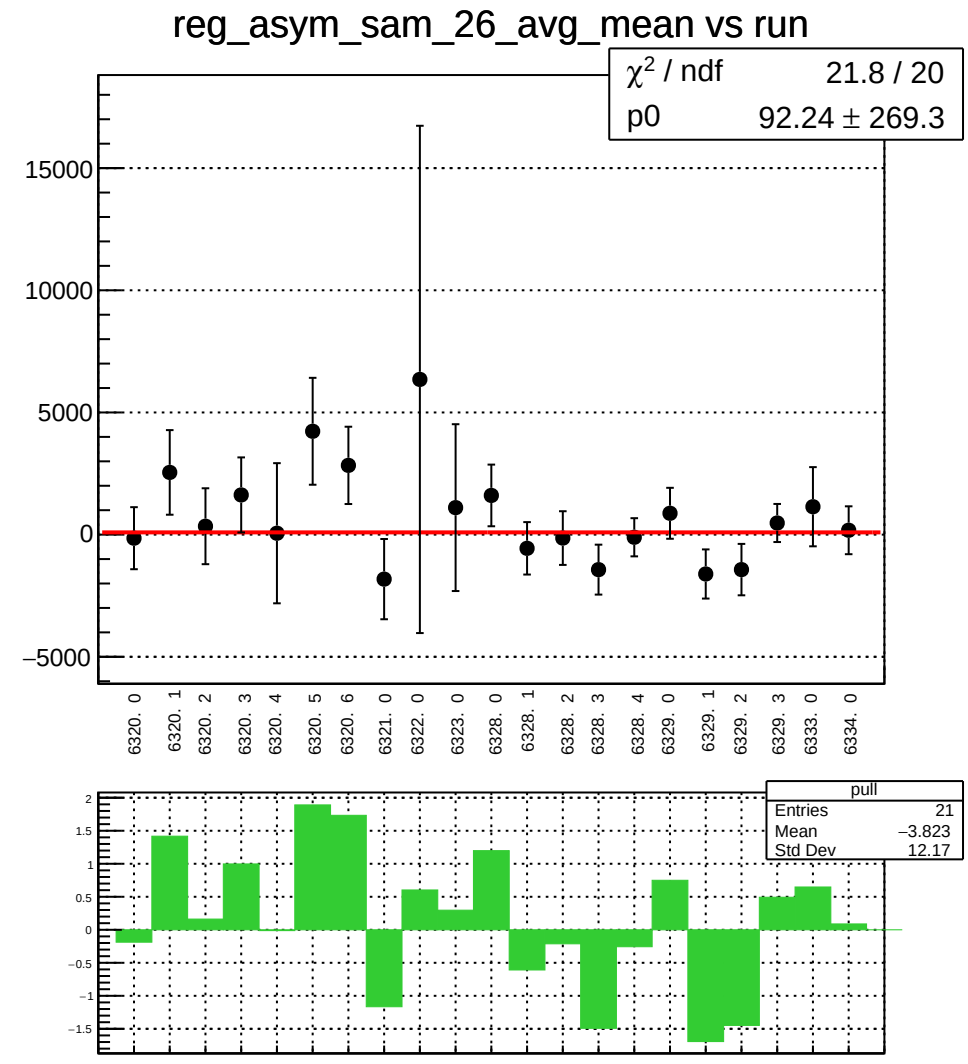

pull1D
Entries 21
Mean −0.0006312
Std Dev 0.8211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

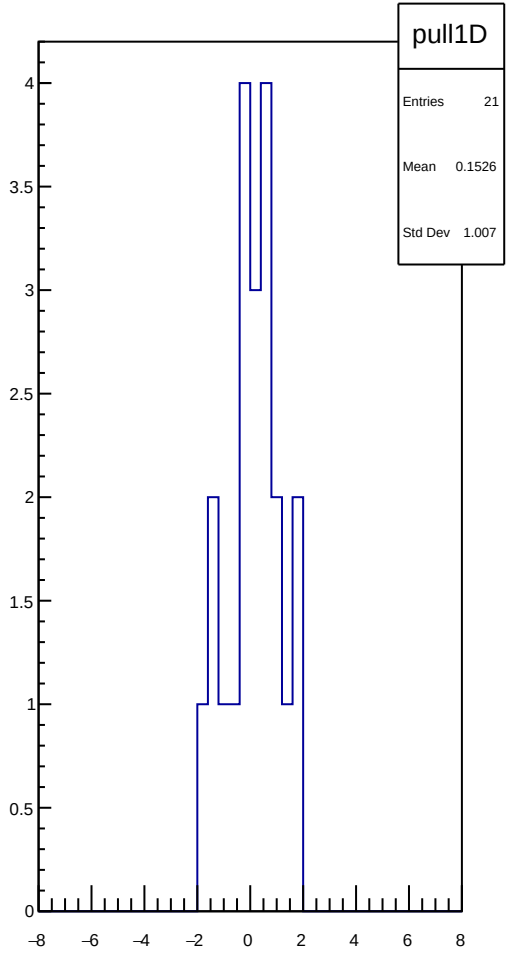

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2678 / 20
p0 336.6 ± 0.5426
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

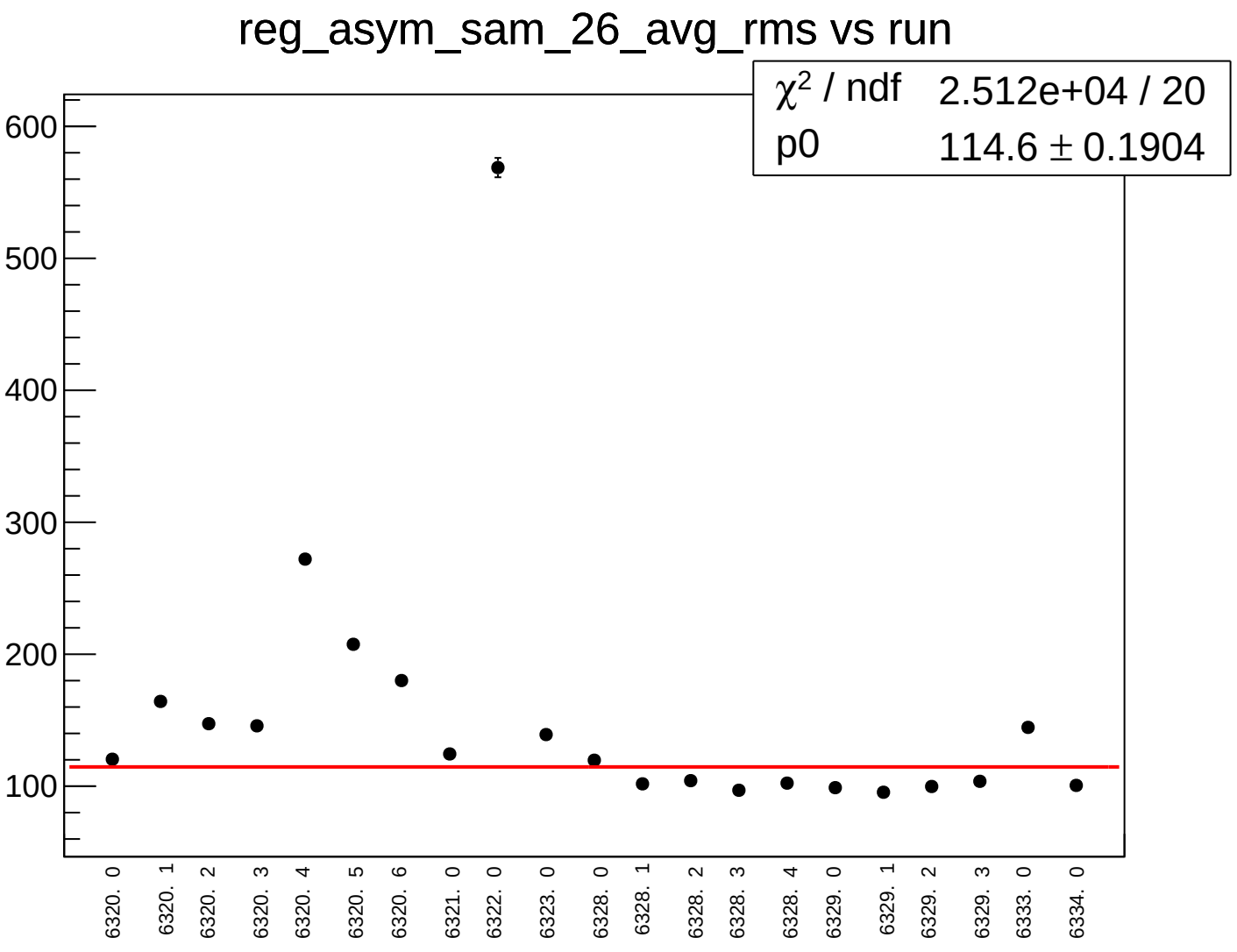

asym_sam_15_avg_mean vs run
χ² / ndf 16.72 / 20
p0 1605 ± 780.7
15000
10000
5000
0
−5000
−10000
−15000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −106.1
Std Dev 118.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

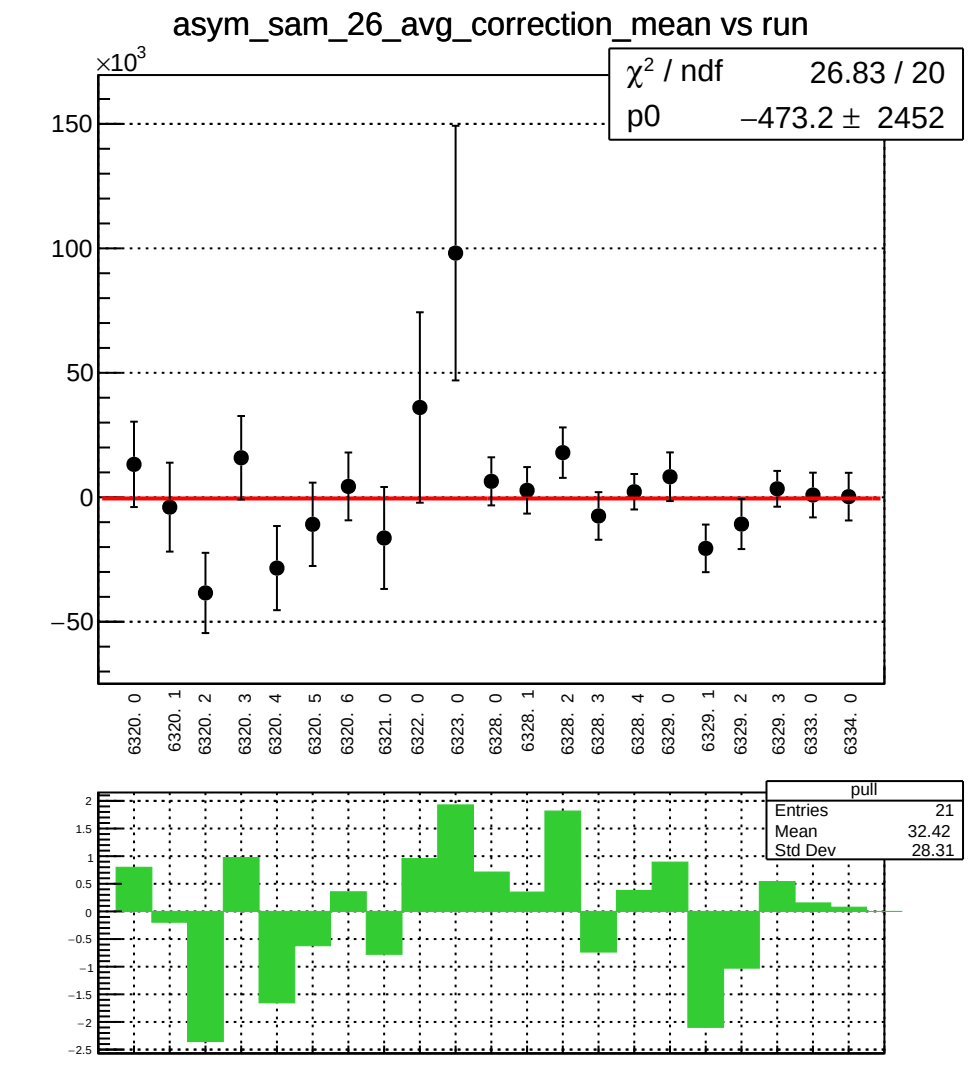

pull1D
Entries 21
Mean 0.008425
Std Dev 0.8924
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

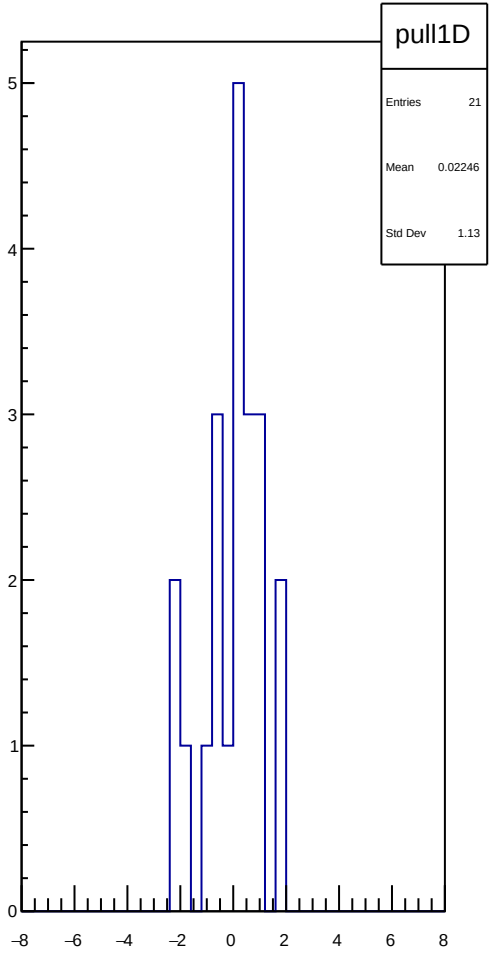

asym_sam_15_avg_rms vs run
χ² / ndf 2498 / 20
p0 342.5 ± 0.5521
400
380
360
340
320
300
280
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

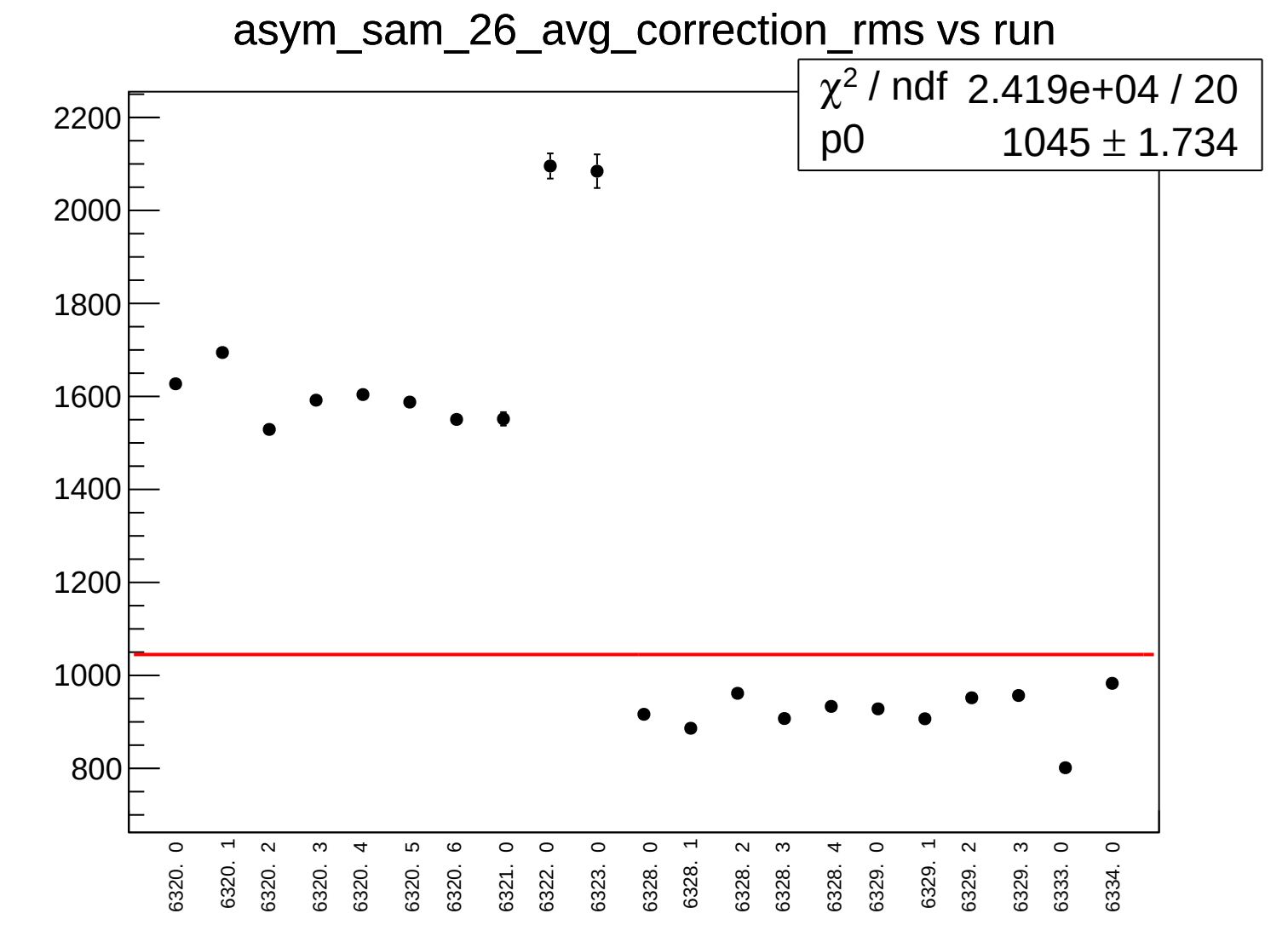

reg_asym_sam_26_avg_mean vs run
χ² / ndf 21.8 / 20
p0 92.24 ± 269.3
15000
10000
5000
0
−5000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.823
Std Dev 12.17
2
1.5
1
0.5
0
−0.5
−1
−1.5

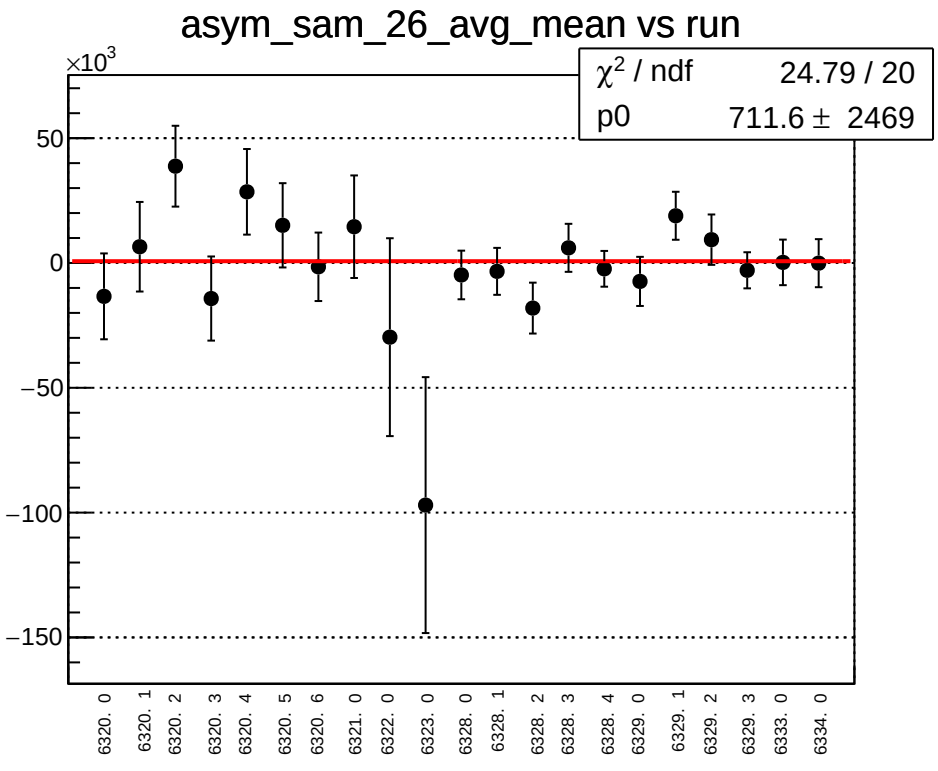

pull1D
Entries 21
Mean 0.1526
Std Dev 1.007
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

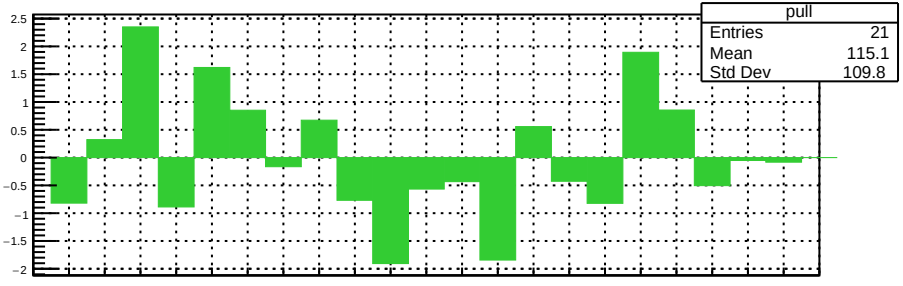

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.512e+04 / 20
p0 114.6 ± 0.1904
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

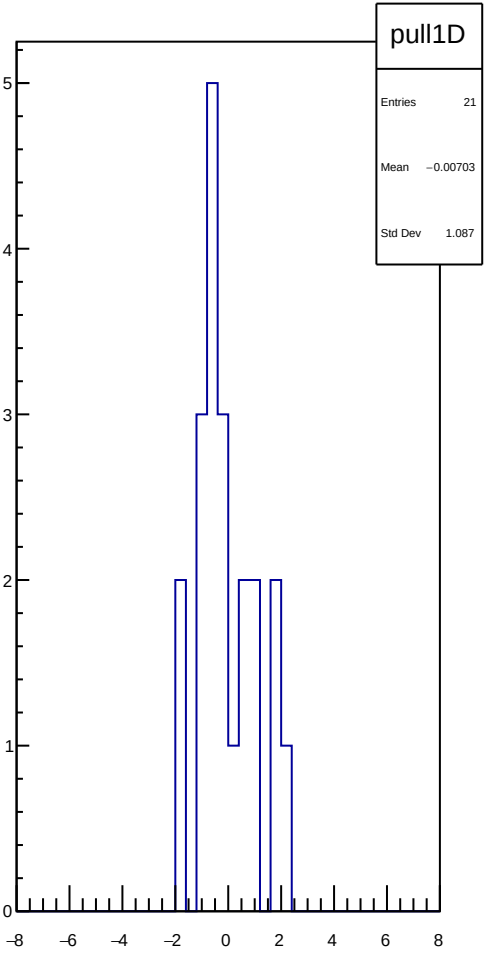

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 26.83 / 20
p0 −473.2 ± 2452
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.42
Std Dev 28.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

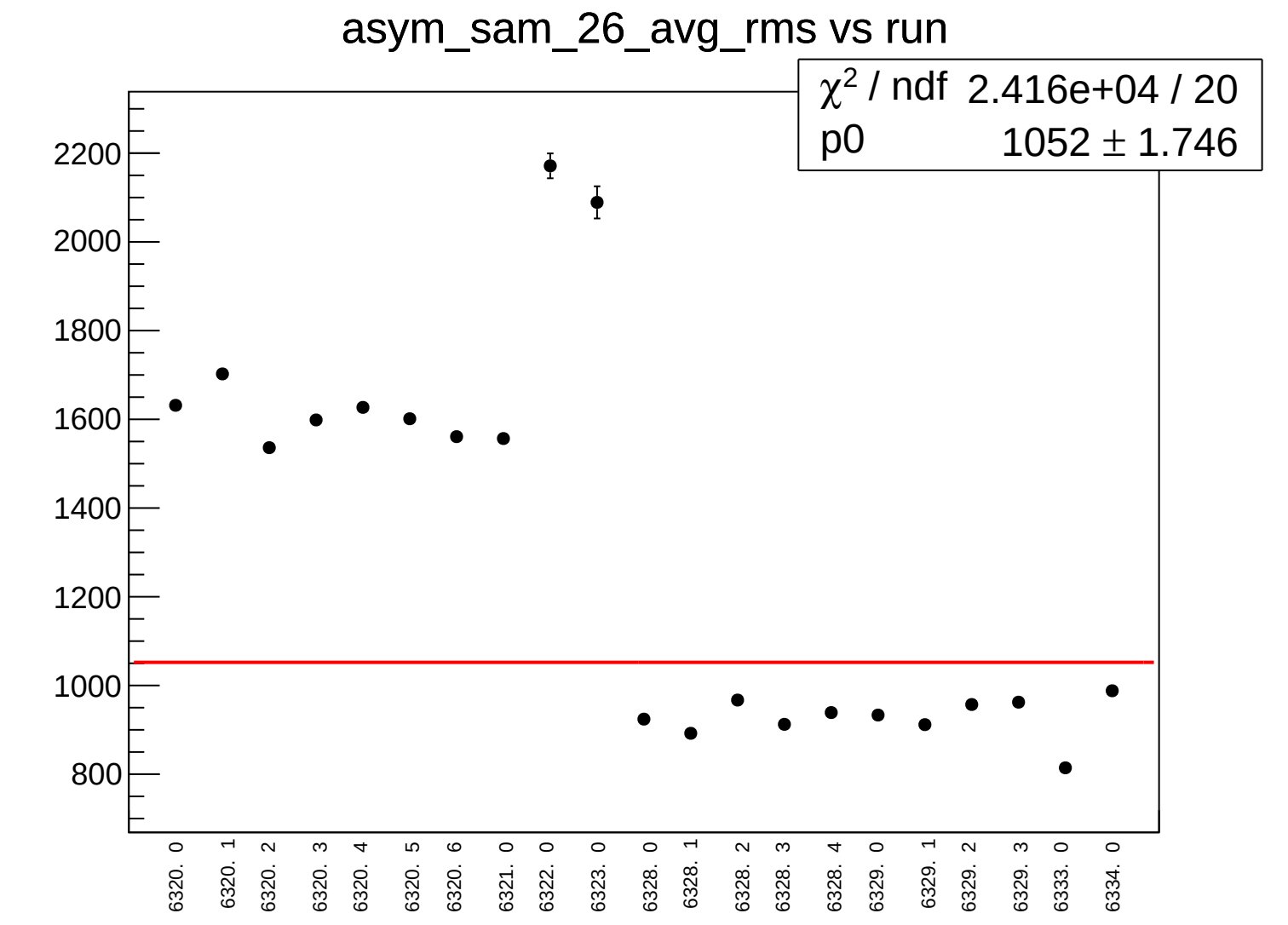

pull1D
Entries 21
Mean 0.02246
Std Dev 1.13
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

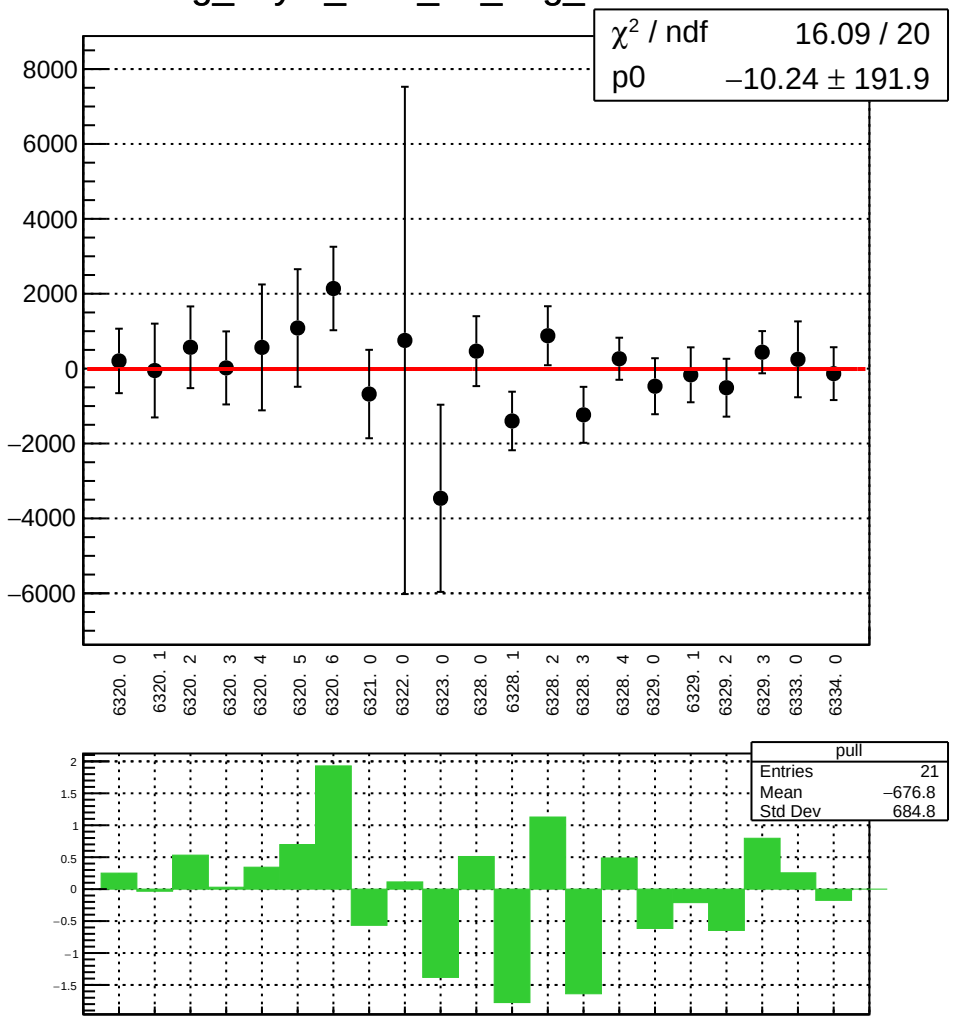

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.419e+04 / 20
p0 1045 ± 1.734
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

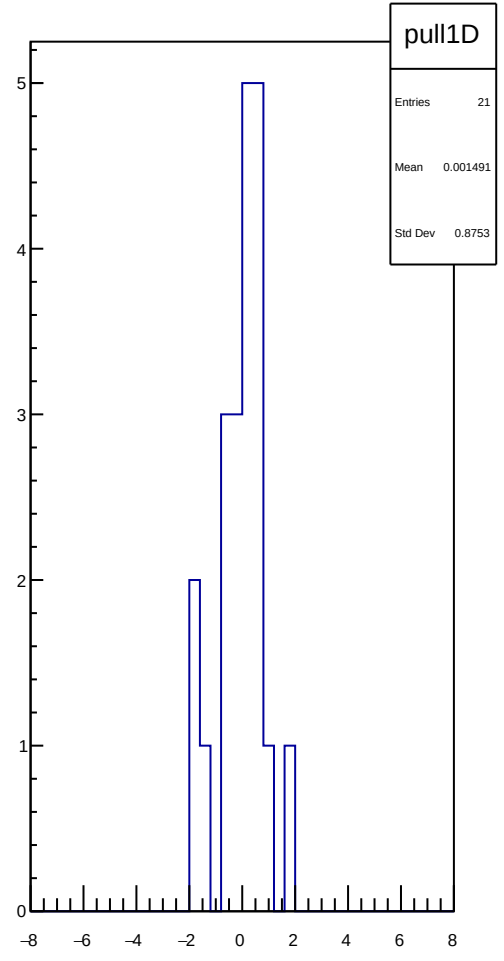

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 24.79 / 20
p0 711.6 ± 2469
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

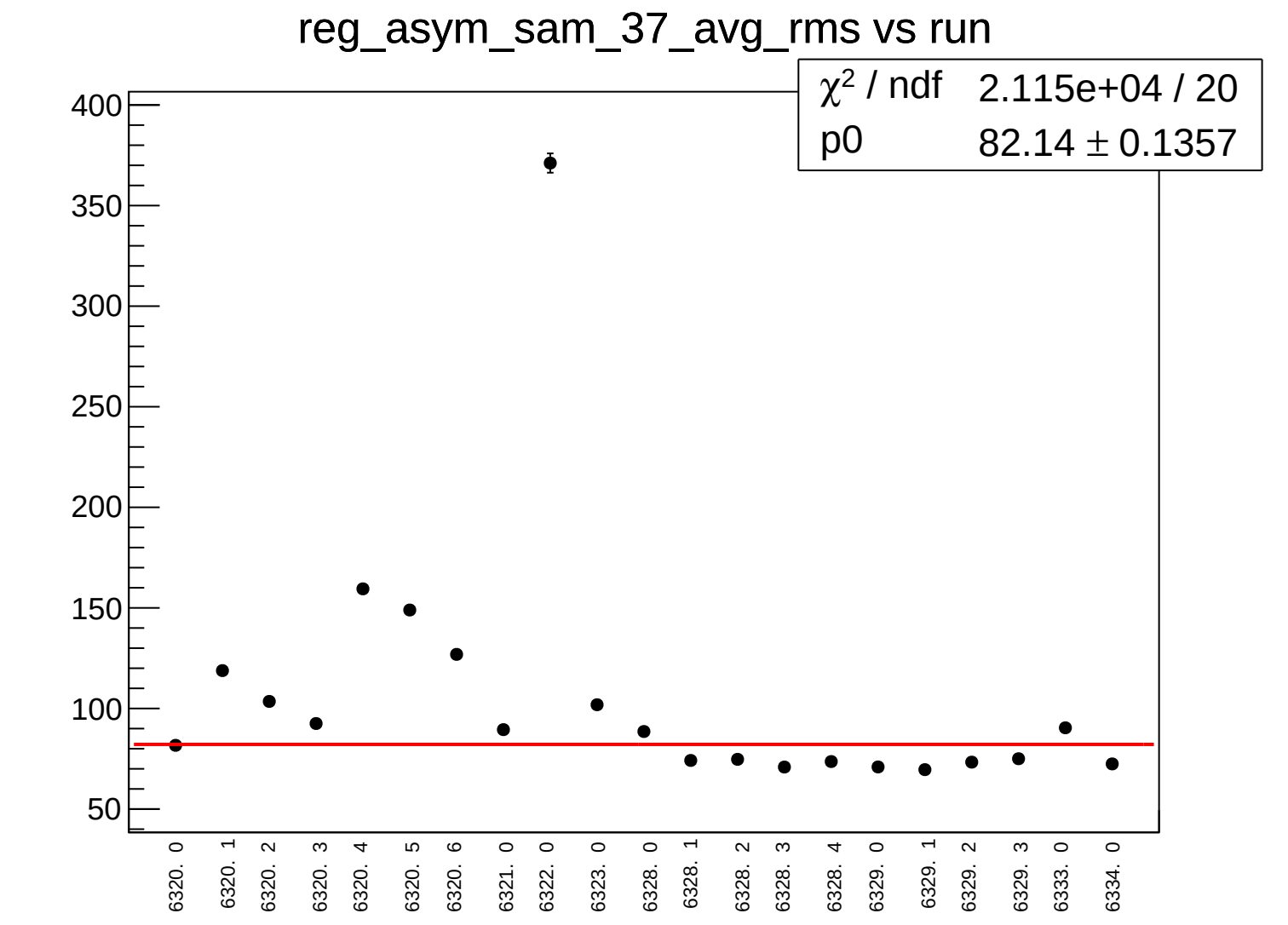

pull
Entries 21
Mean 115.1
Std Dev 109.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

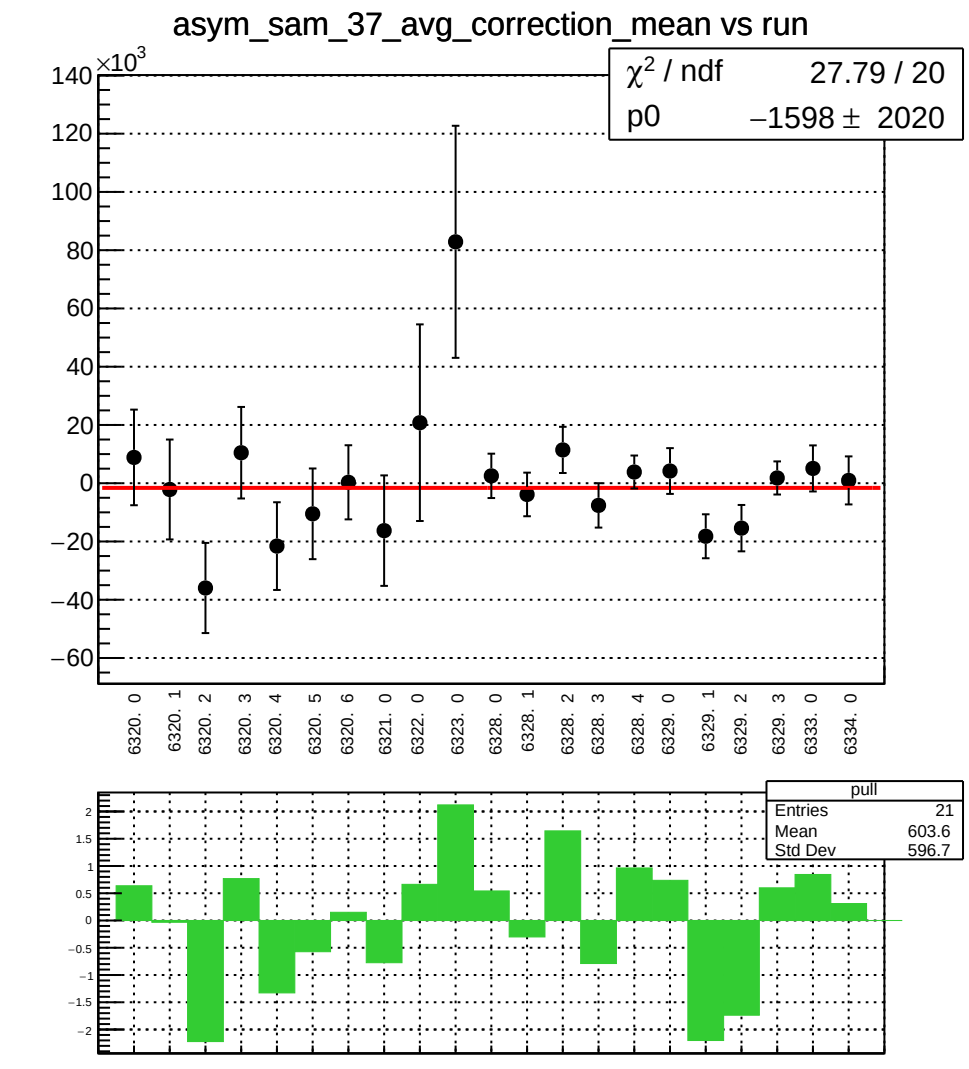

pull1D
Entries 21
Mean −0.00703
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

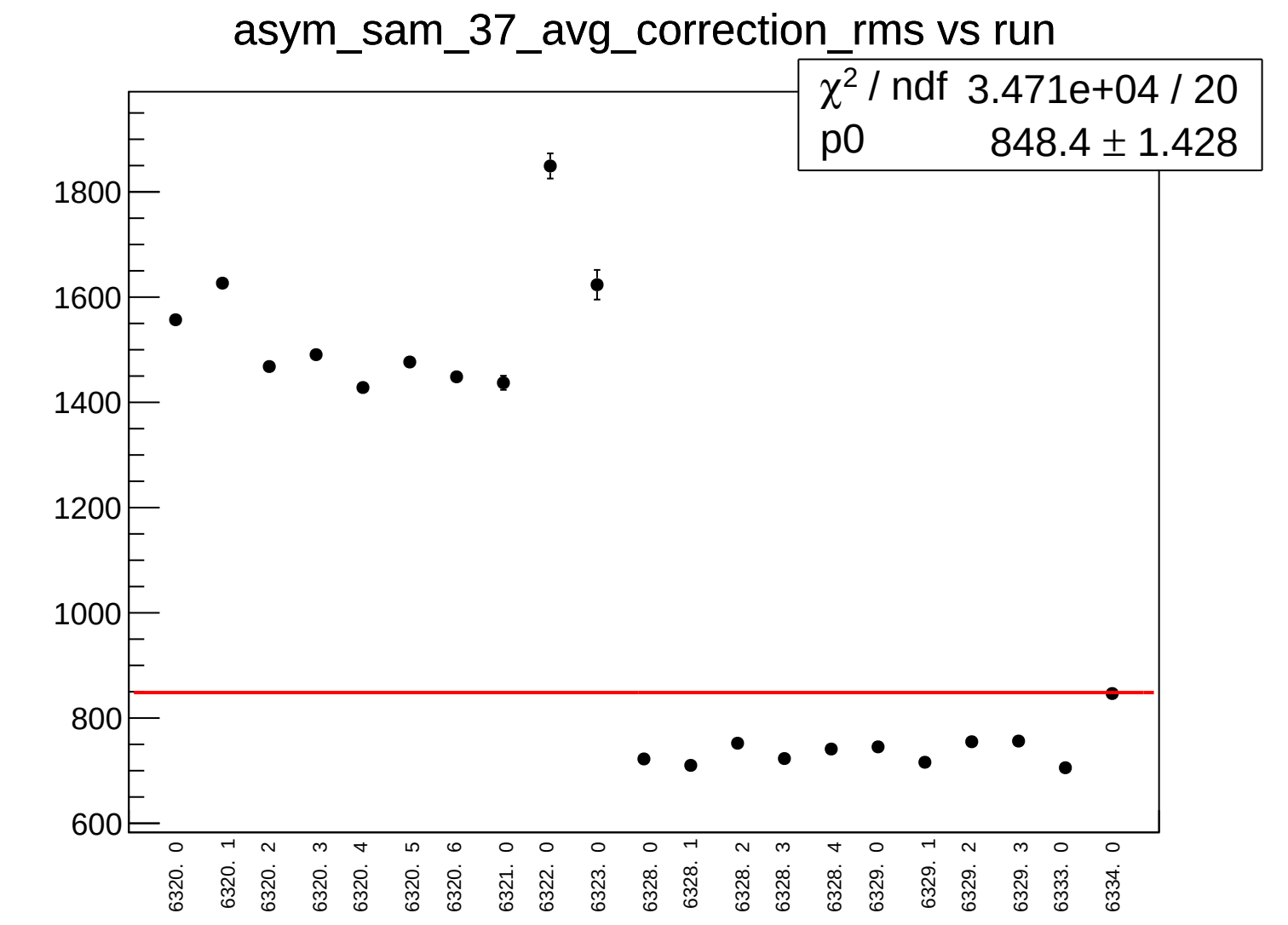

asym_sam_26_avg_rms vs run
χ² / ndf 2.416e+04 / 20
p0 1052 ± 1.746
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

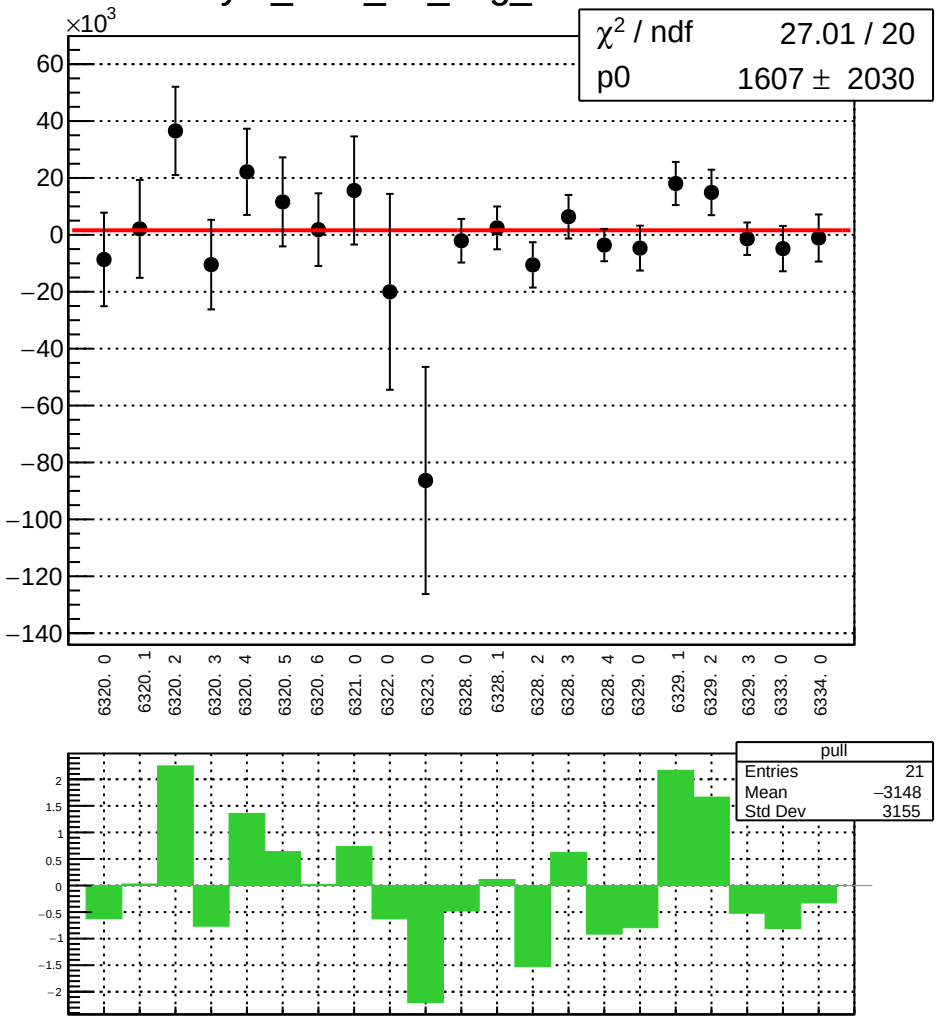

reg_asym_sam_37_avg_mean vs run
χ² / ndf 16.09 / 20
p0 −10.24 ± 191.9
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −676.8
Std Dev 684.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

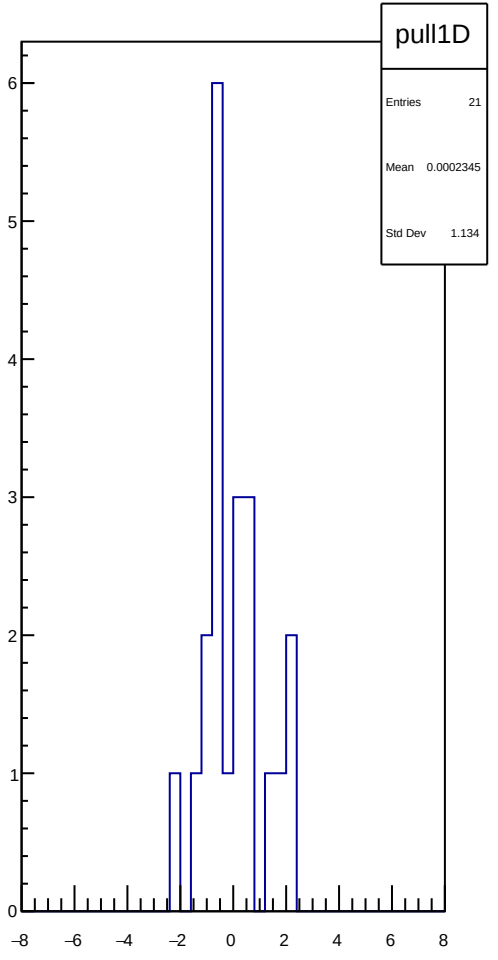

pull1D
Entries 21
Mean 0.001491
Std Dev 0.8753
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

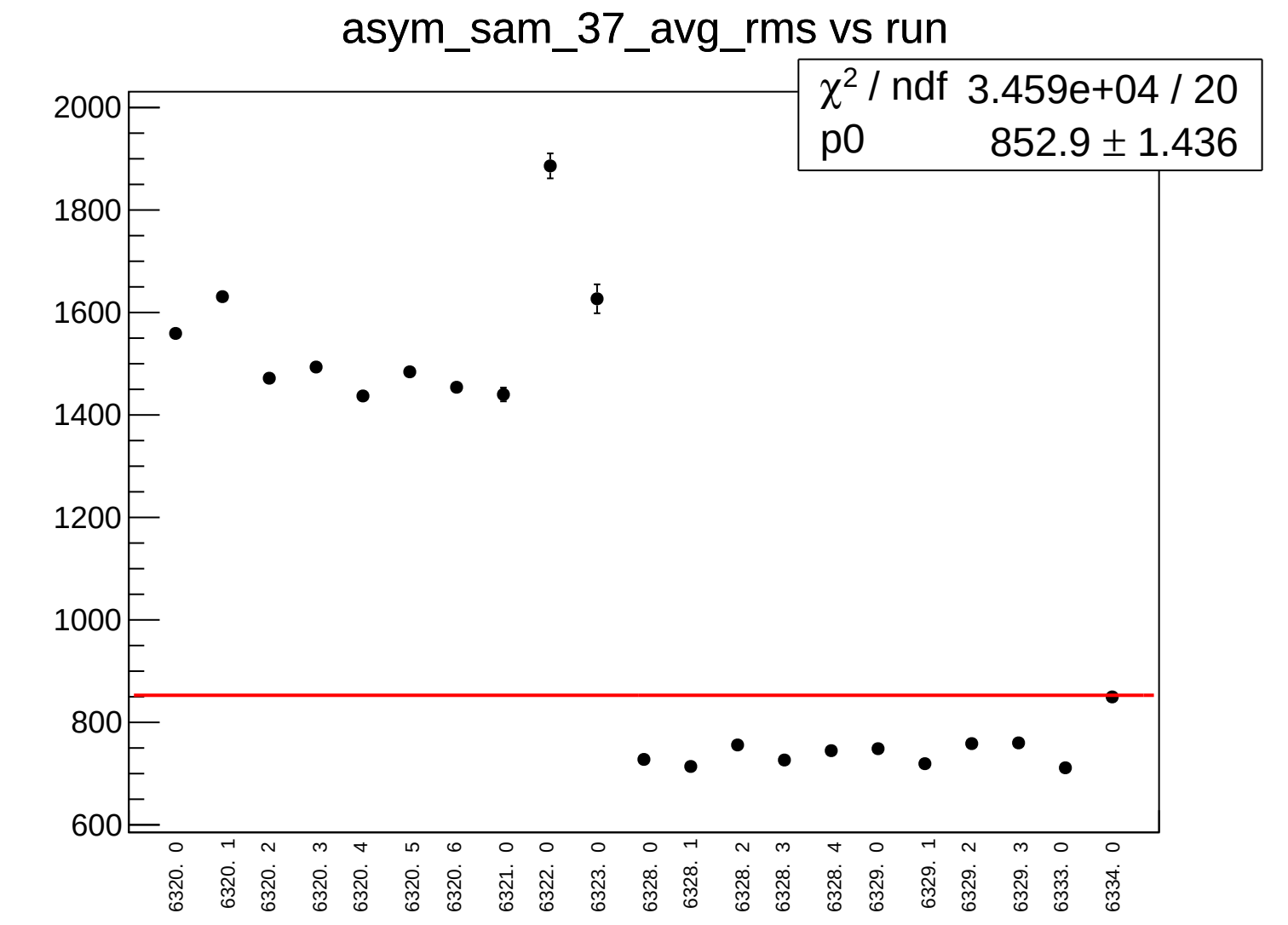

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.115e+04 / 20
p0 82.14 ± 0.1357
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

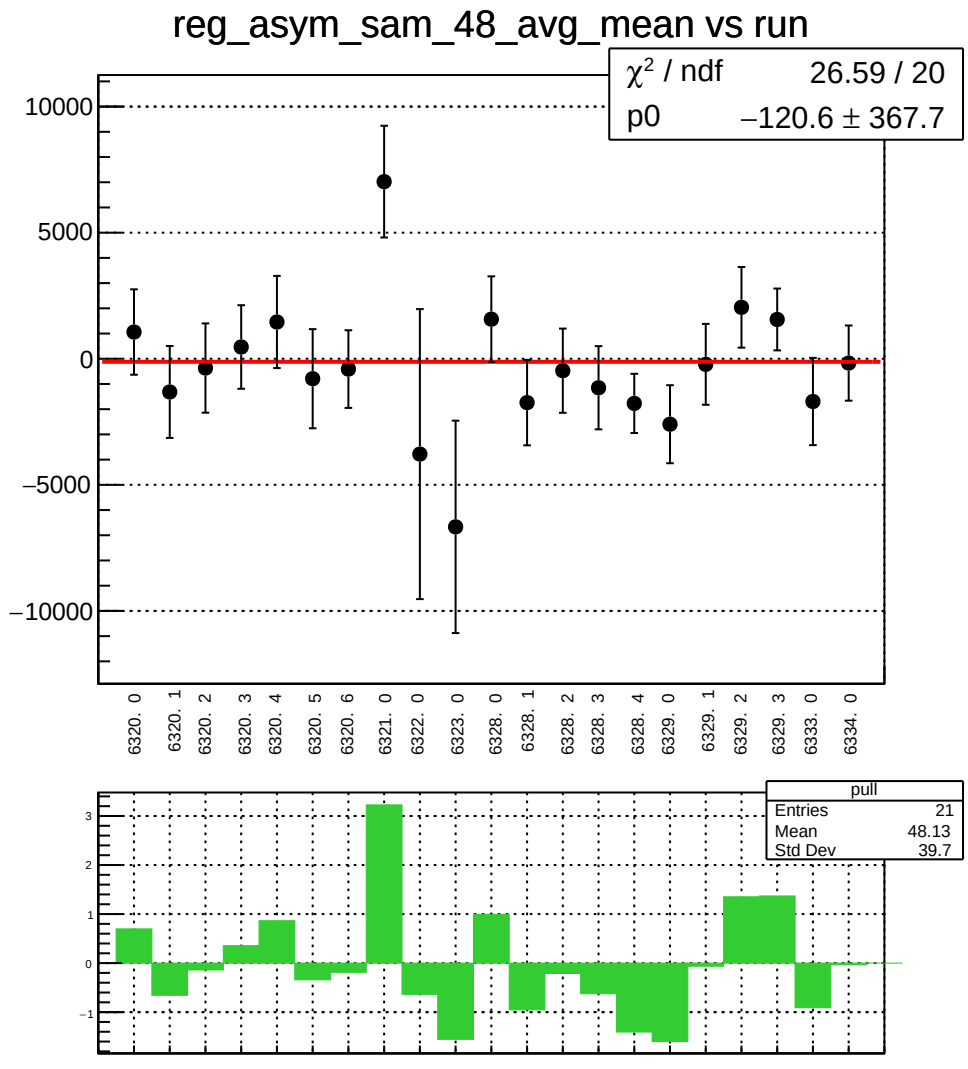

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 27.79 / 20
p0 −1598 ± 2020
140
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 603.6
Std Dev 596.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.0011
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

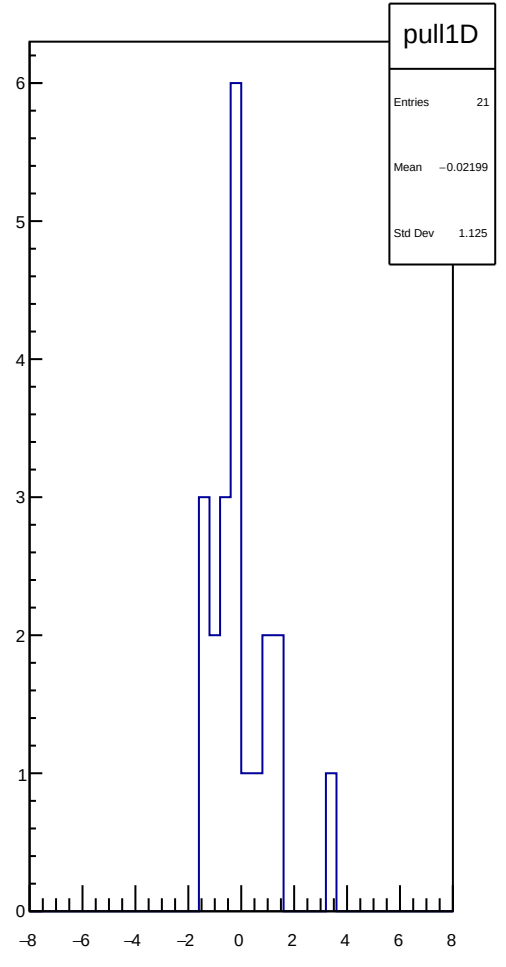

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3.471e+04 / 20
p0 848.4 ± 1.428
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

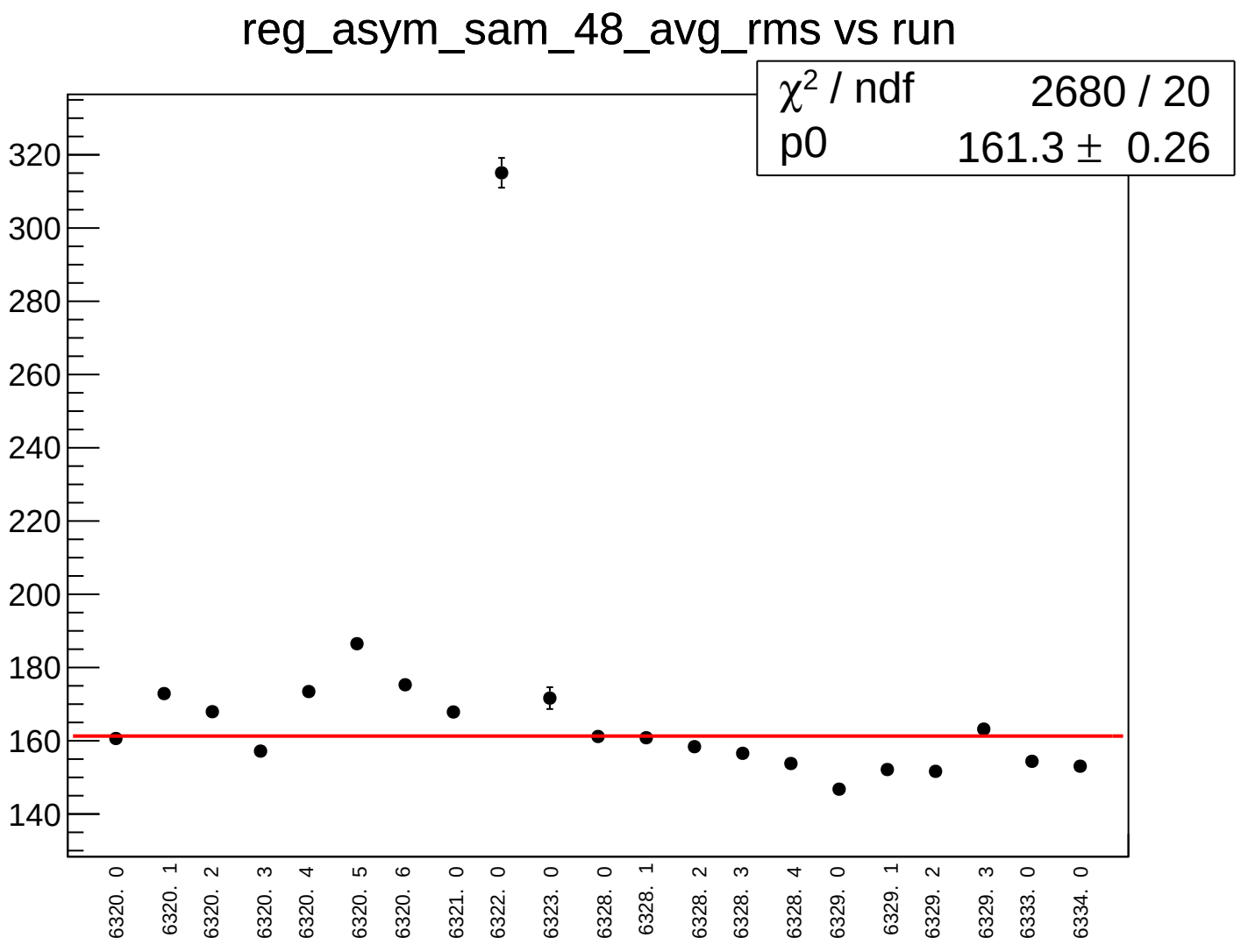

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 27.01 / 20
p0 1607 ± 2030
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3148
Std Dev 3155
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

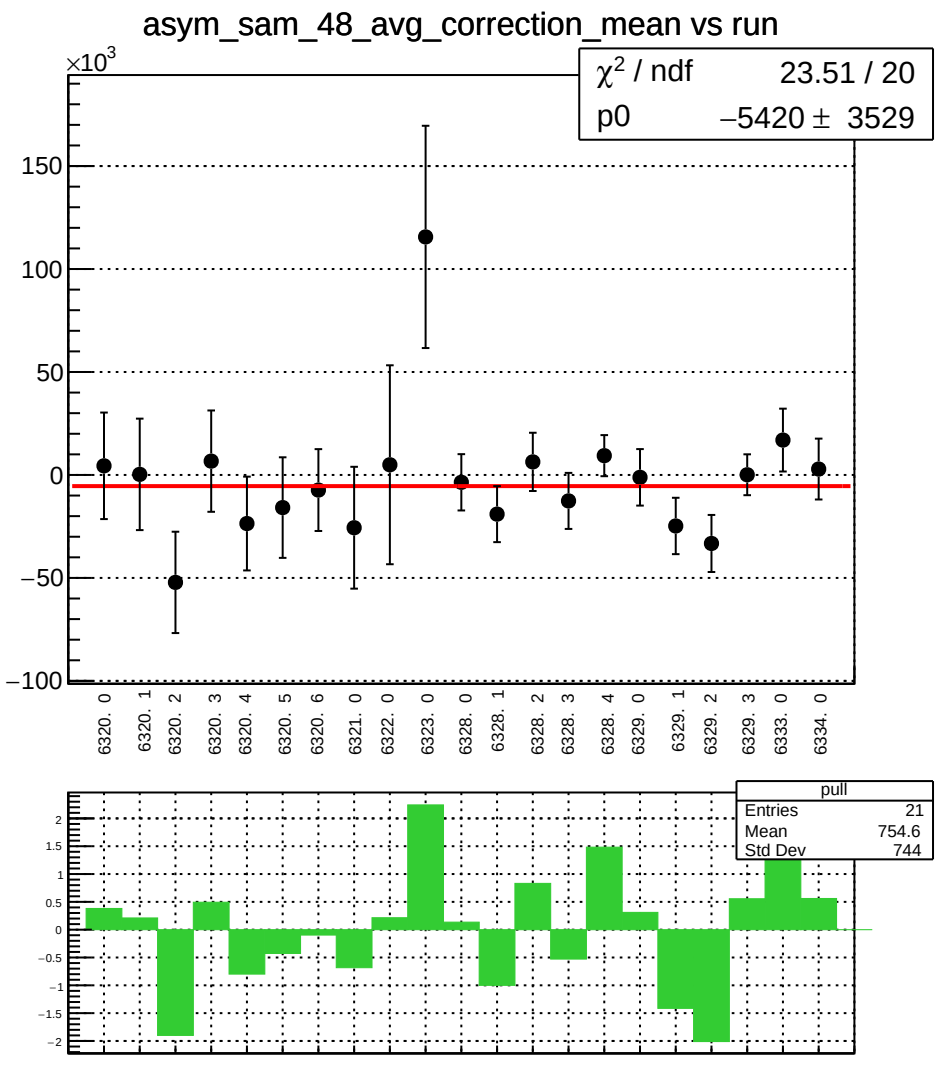

pull1D
Entries 21
Mean 0.0002345
Std Dev 1.134
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

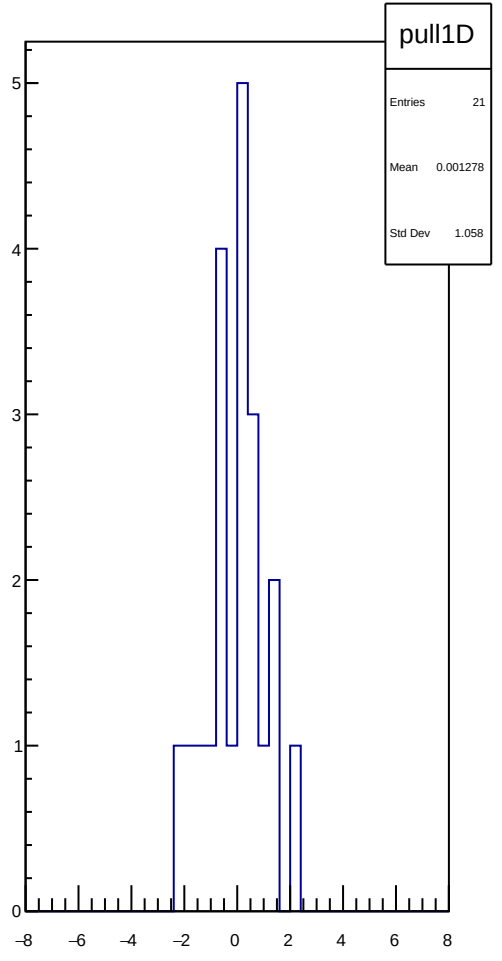

asym_sam_37_avg_rms vs run
χ² / ndf 3.459e+04 / 20
p0 852.9 ± 1.436
2000
1800
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

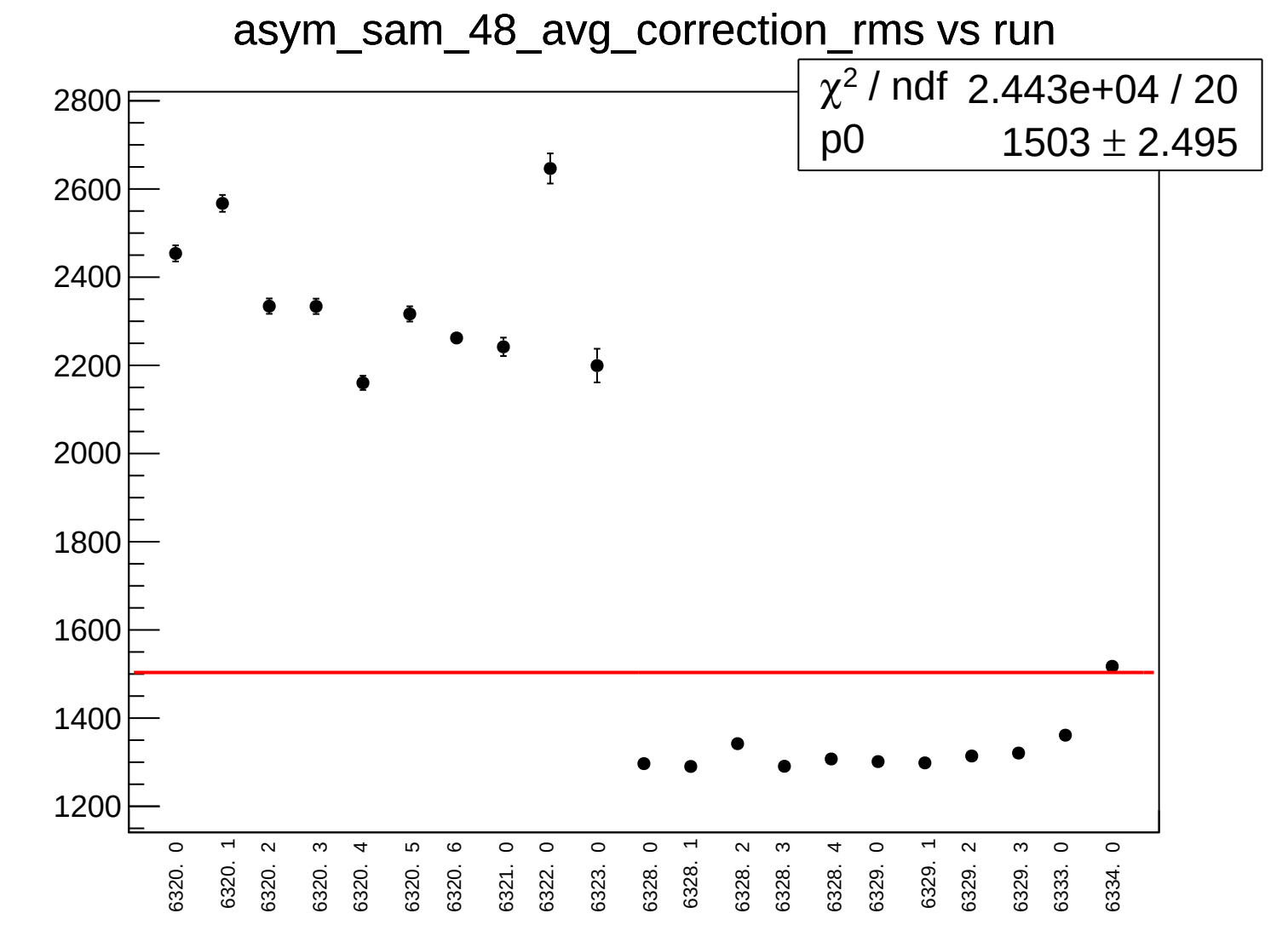

reg_asym_sam_48_avg_mean vs run
χ² / ndf 26.59 / 20
p0 −120.6 ± 367.7
10000
5000
0
−5000
−10000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.13
Std Dev 39.7
3
2
1
0
−1

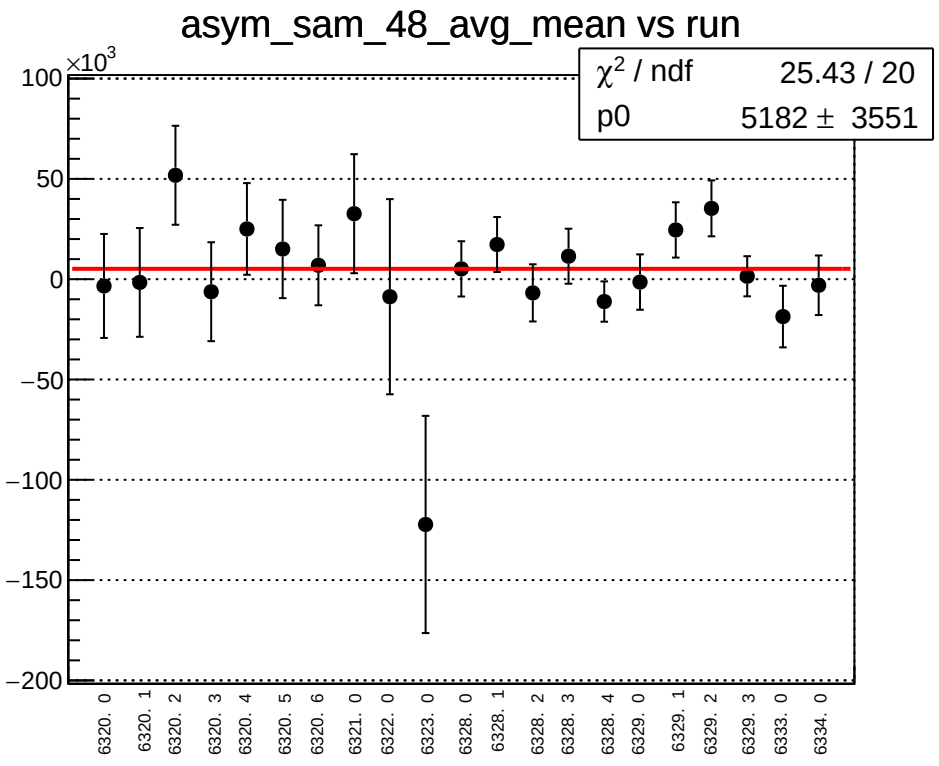

pull1D
Entries 21
Mean −0.02199
Std Dev 1.125
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

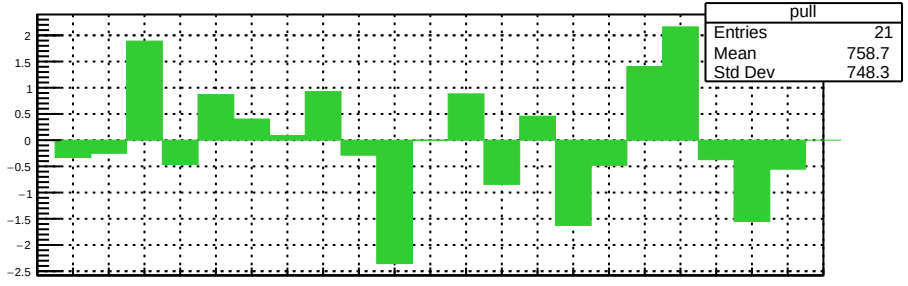

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2680 / 20
p0 161.3 ± 0.26
320
300
280
260
240
220
200
180
160
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

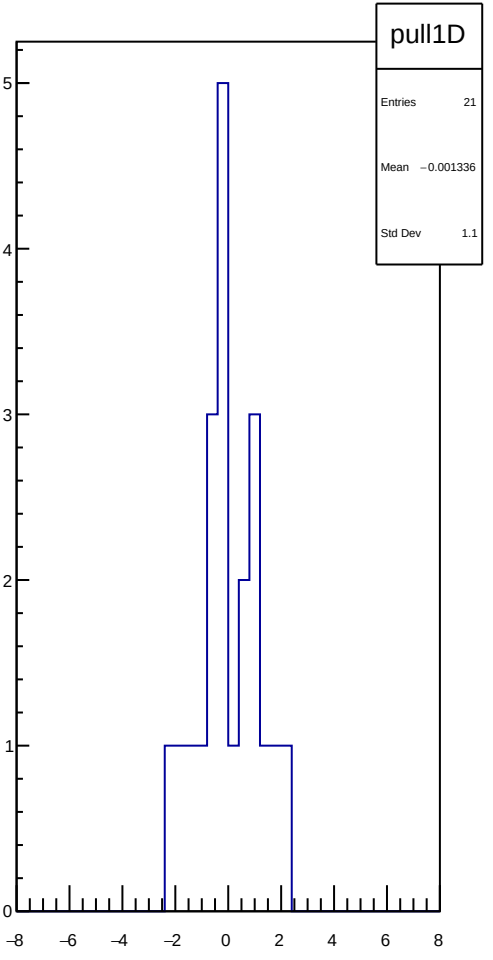

asym_sam_48_avg_correction_mean vs run
×10^3
χ^2 / ndf 23.51 / 20
p0 −5420 ± 3529
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 754.6
Std Dev 744
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

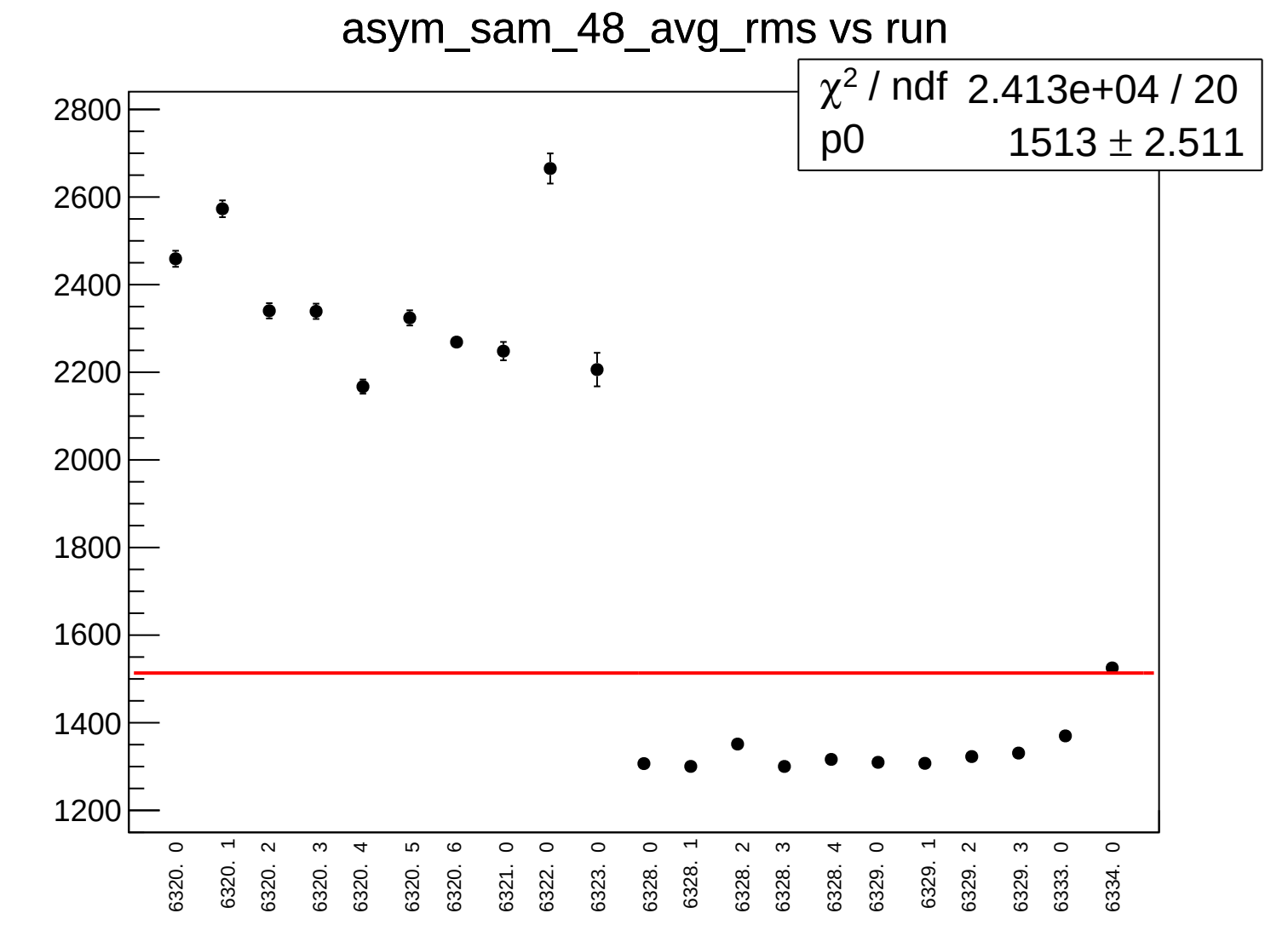

pull1D
Entries 21
Mean 0.001278
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

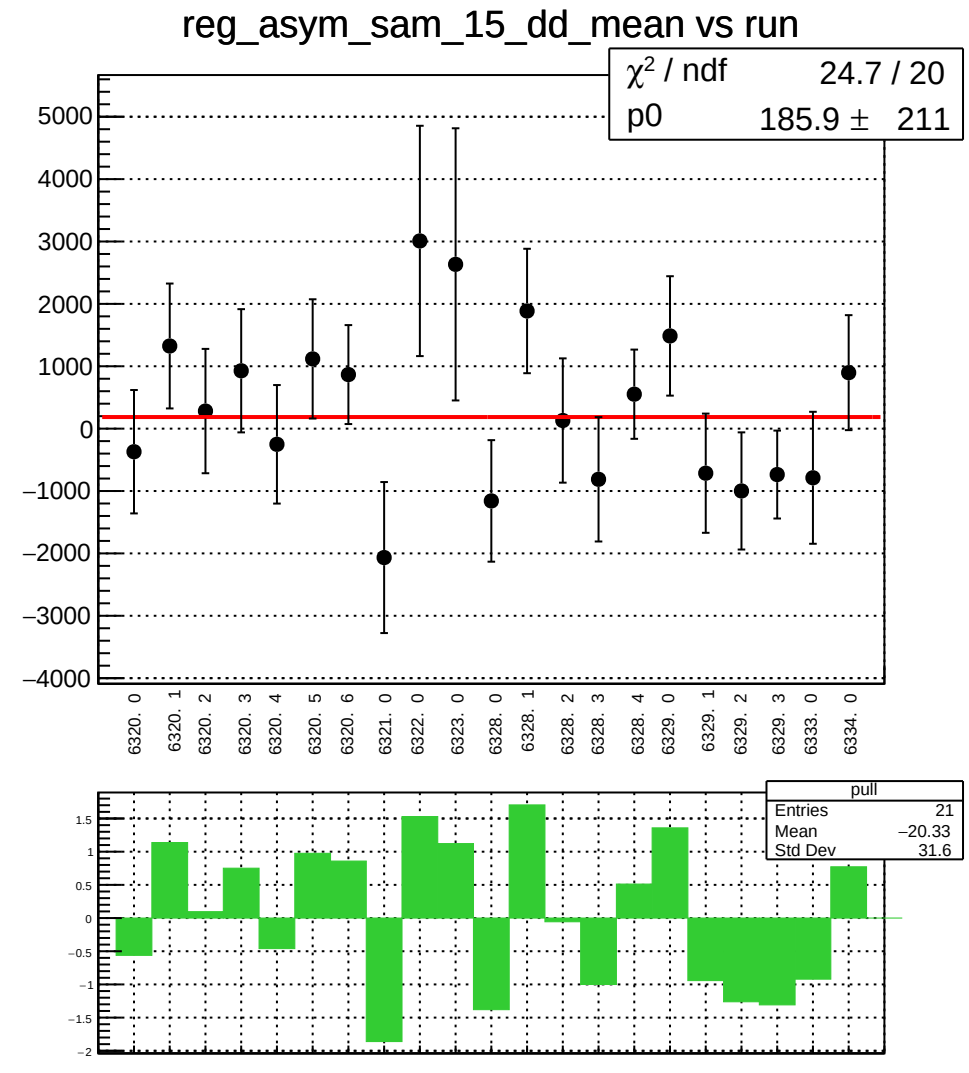

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.443e+04 / 20
p0 1503 ± 2.495
2800
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

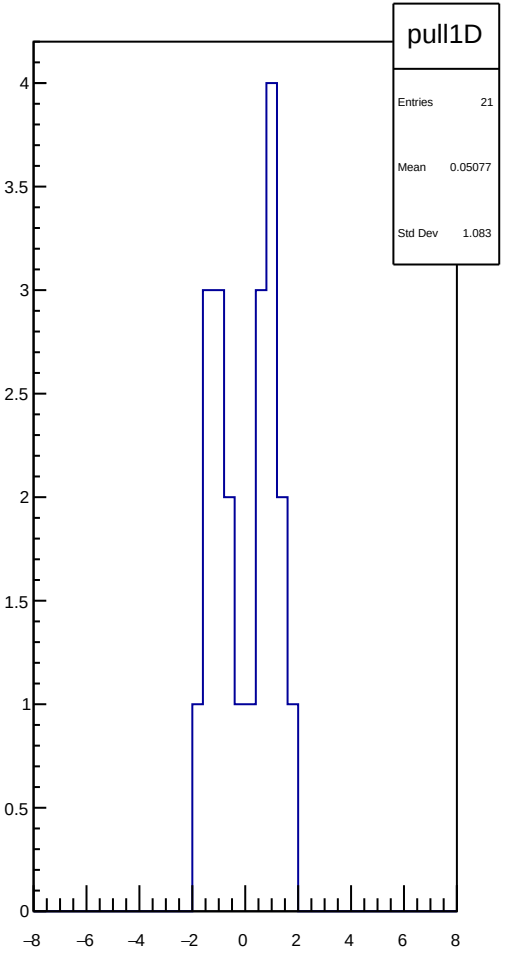

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 25.43 / 20
p0 5182 ± 3551
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

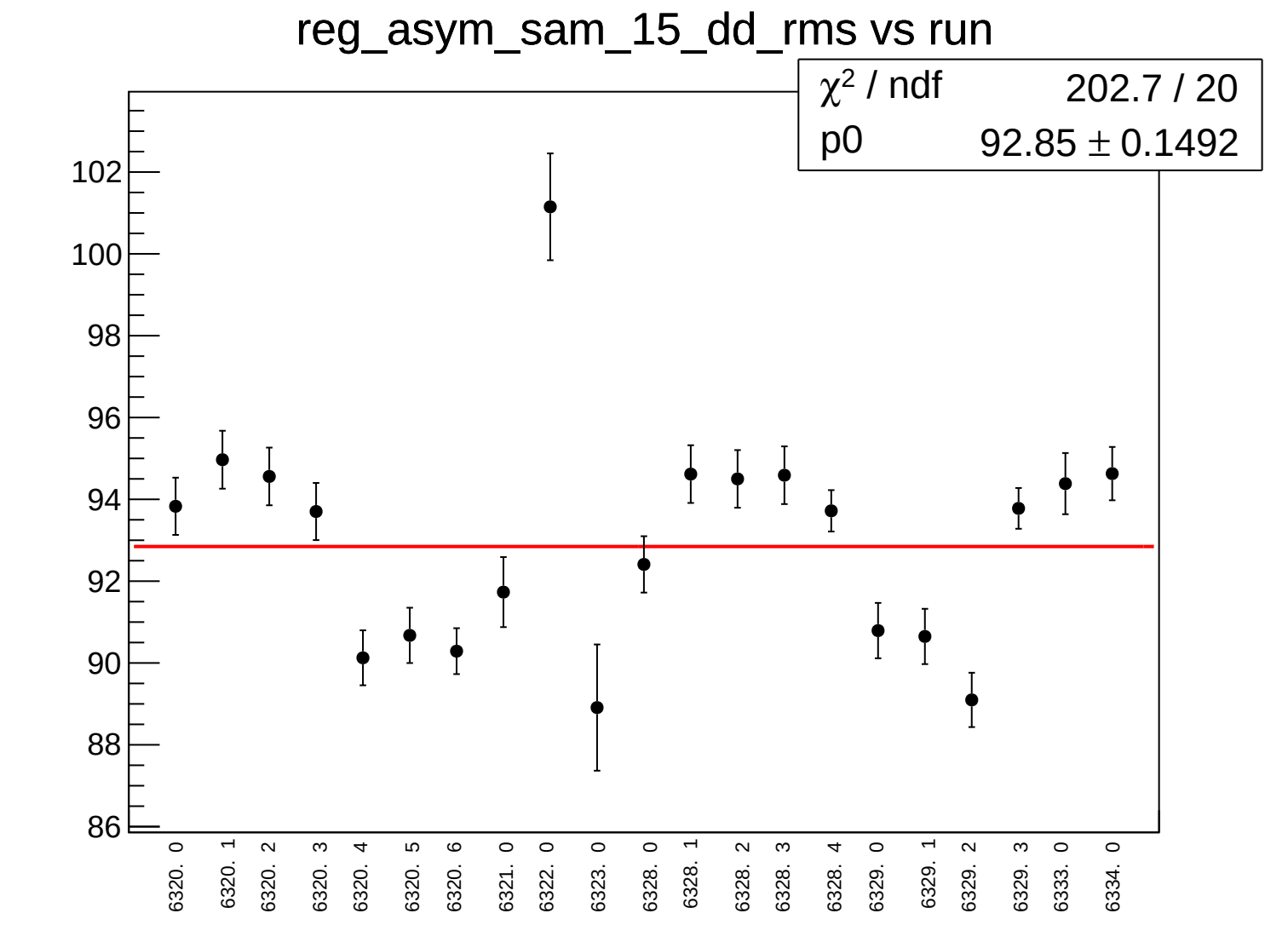

pull
Entries 21
Mean 758.7
Std Dev 748.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

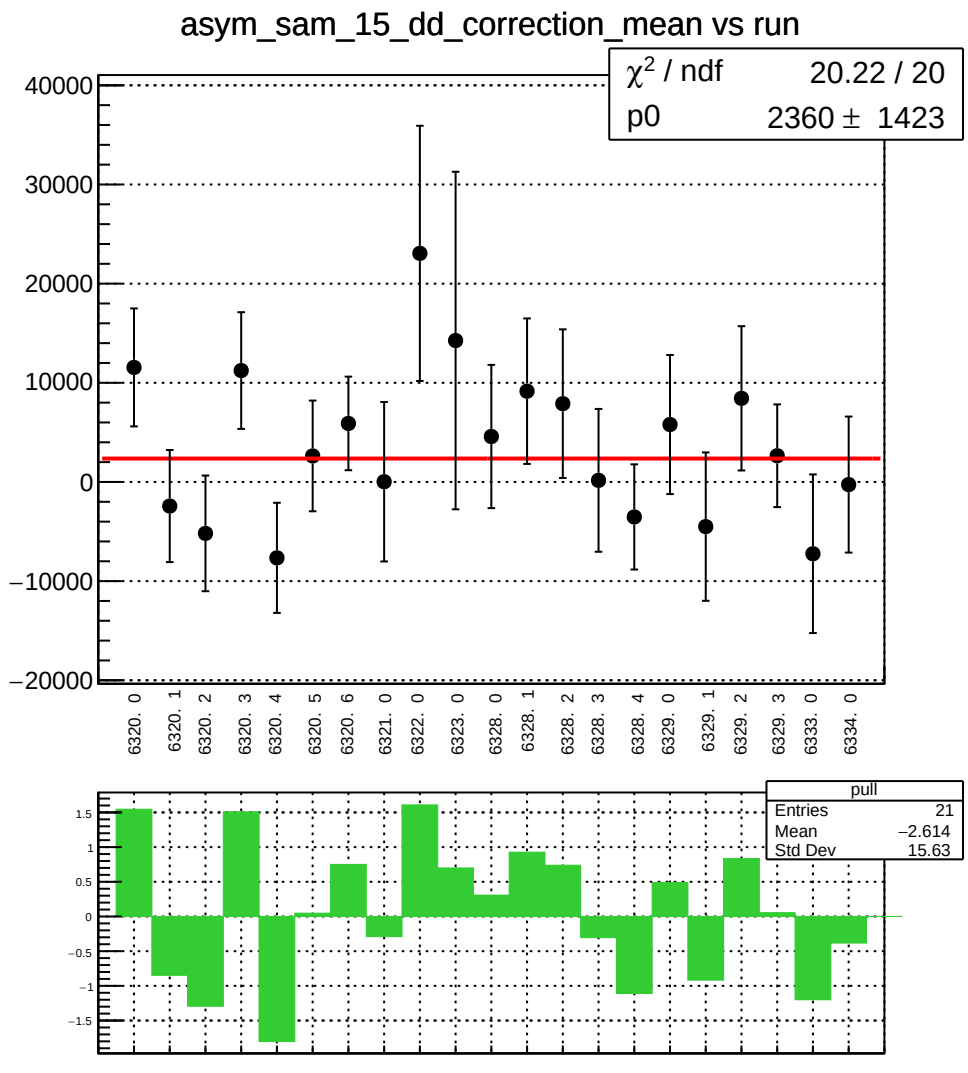

pull1D
Entries 21
Mean −0.001336
Std Dev 1.1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

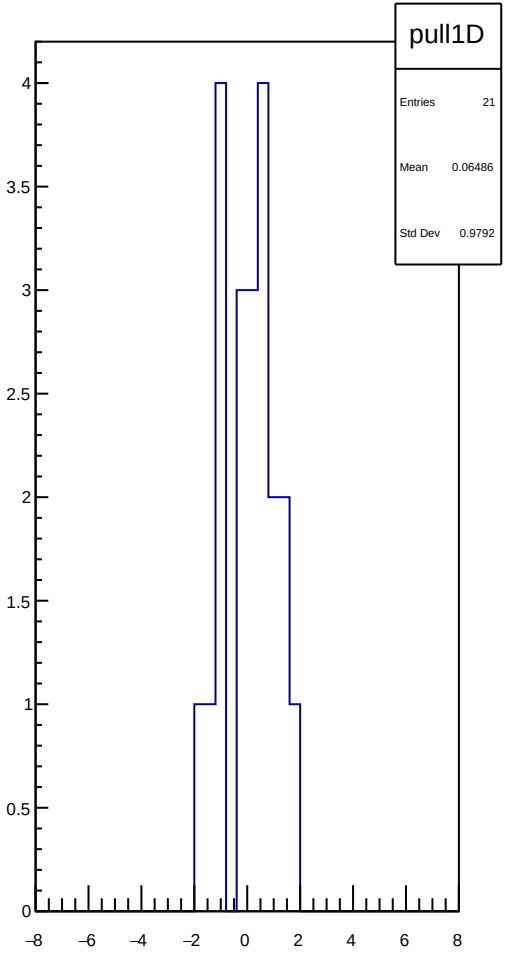

asym_sam_48_avg_rms vs run
χ² / ndf 2.413e+04 / 20
p0 1513 ± 2.511
2800
2600
2400
2200
2000
1800
1600
1400
1200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

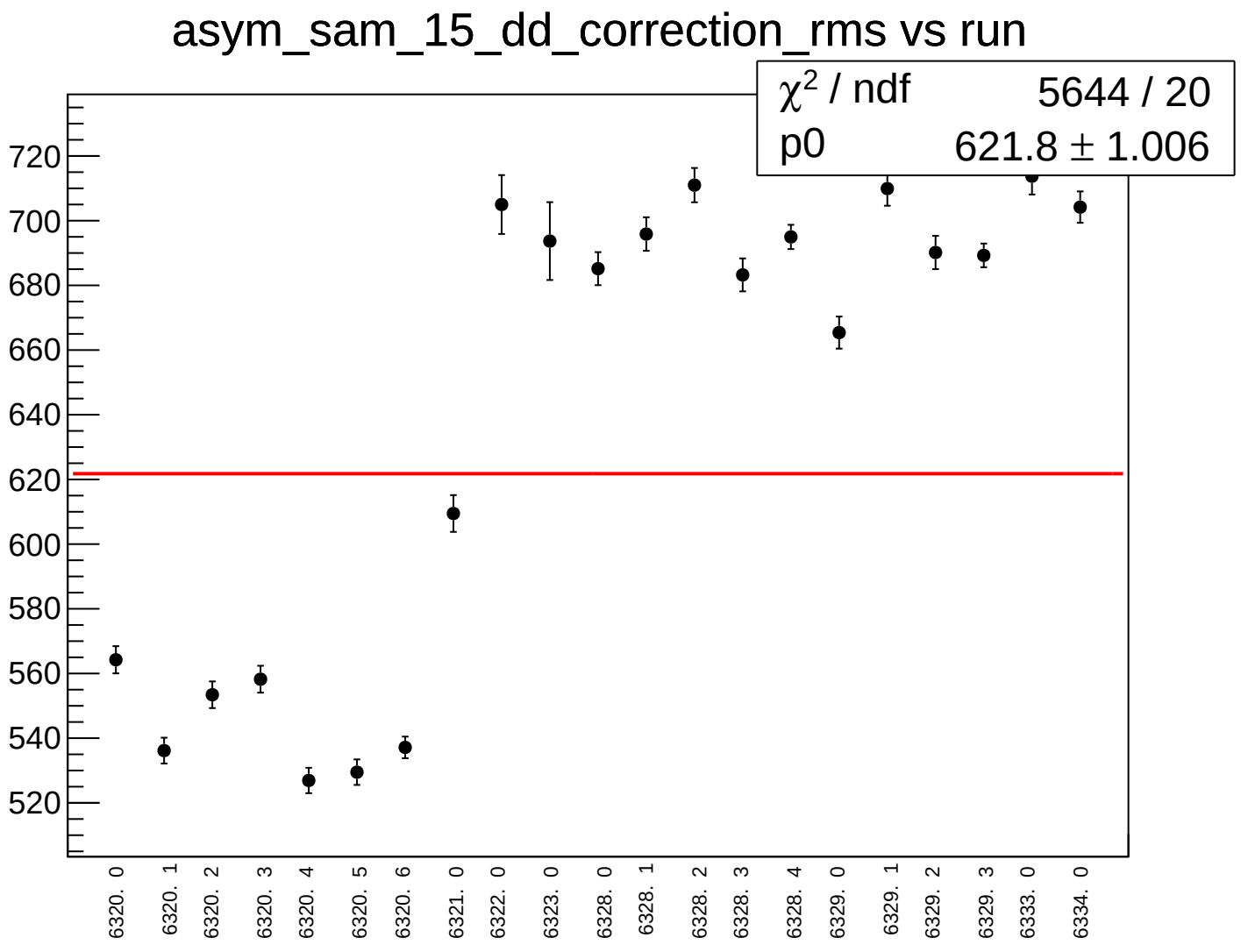

reg_asym_sam_15_dd_mean vs run
χ² / ndf 24.7 / 20
p0 185.9 ± 211
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.33
Std Dev 31.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

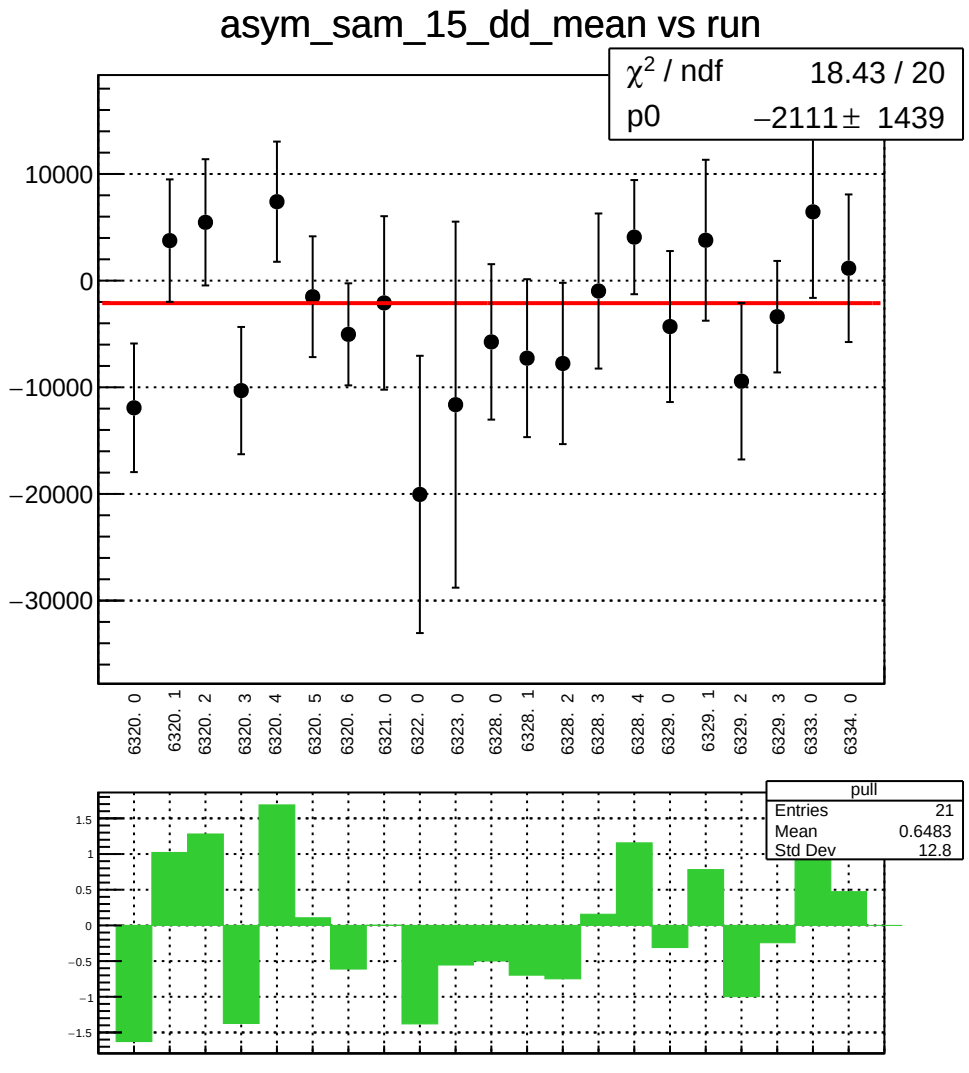

pull1D
Entries 21
Mean 0.05077
Std Dev 1.083
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

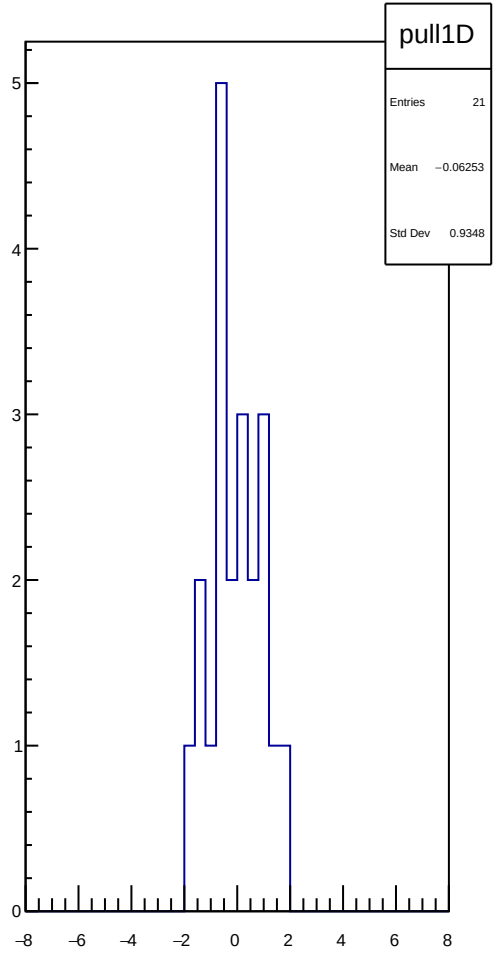

reg_asym_sam_15_dd_rms vs run
χ² / ndf 202.7 / 20
p0 92.85 ± 0.1492
102
100
98
96
94
92
90
88
86
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

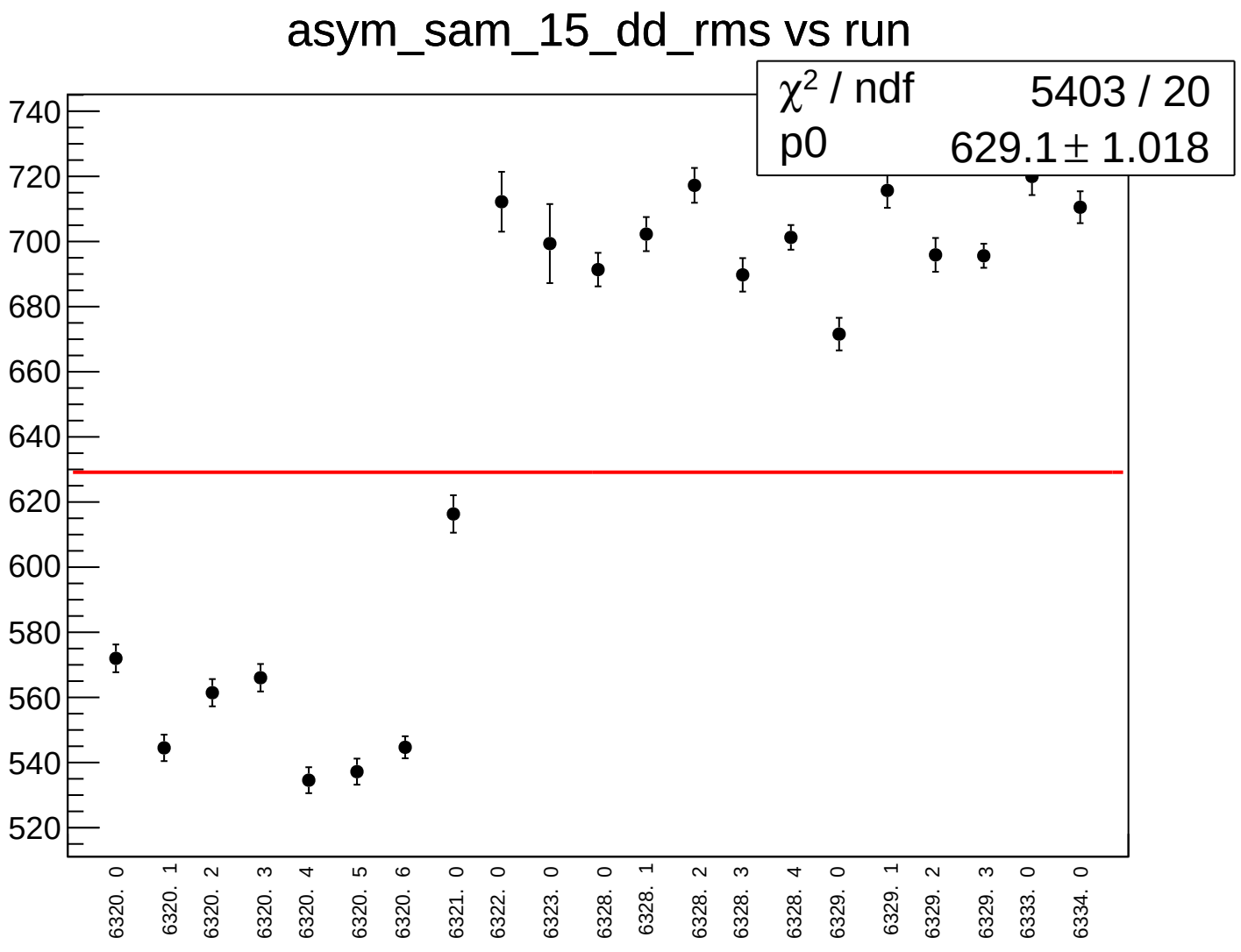

asym_sam_15_dd_correction_mean vs run
χ² / ndf 20.22 / 20
p0 2360 ± 1423
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.614
Std Dev 15.63
1.5
1
0.5
0
−0.5
−1
−1.5

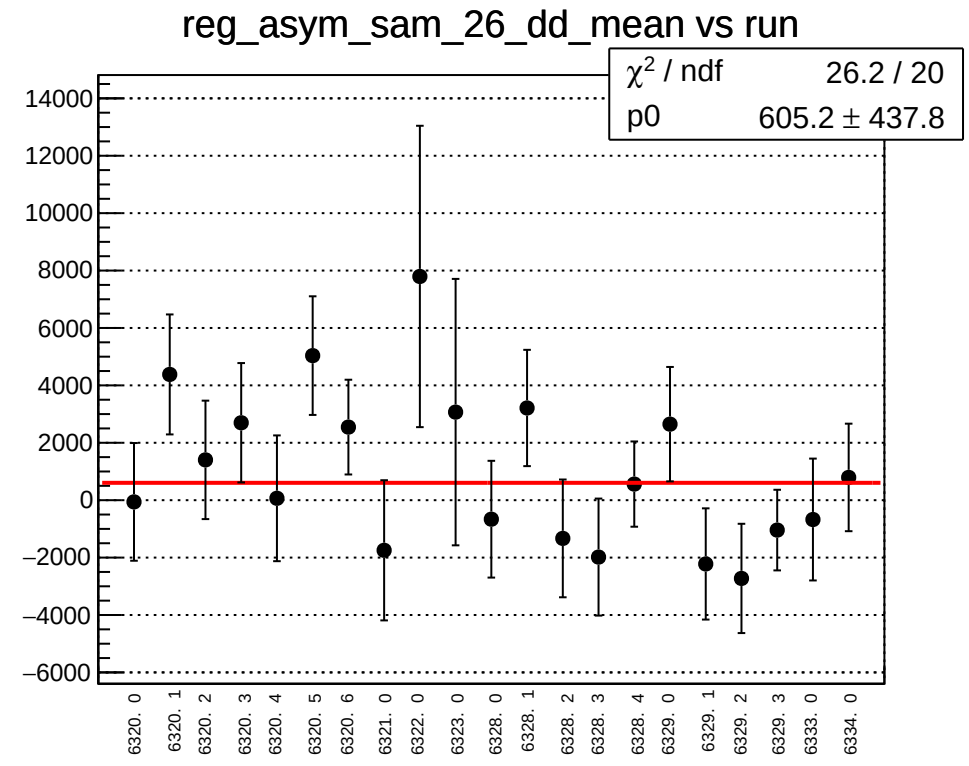

pull1D
Entries 21
Mean 0.06486
Std Dev 0.9792
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

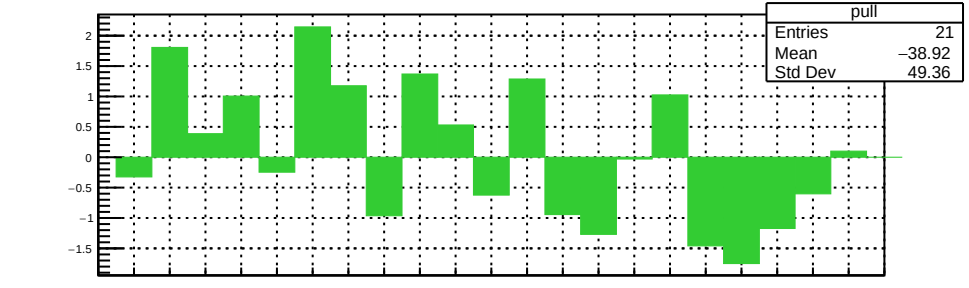

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5644 / 20
p0 621.8 ± 1.006
720
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

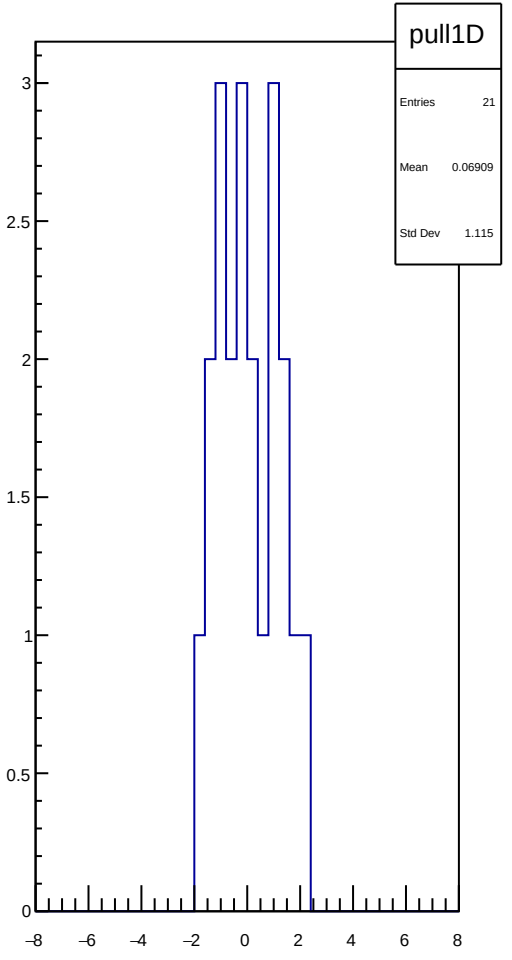

asym_sam_15_dd_mean vs run
χ² / ndf 18.43 / 20
p0 −2111 ± 1439
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.6483
Std Dev 12.8
1.5
1
0.5
0
−0.5
−1
−1.5

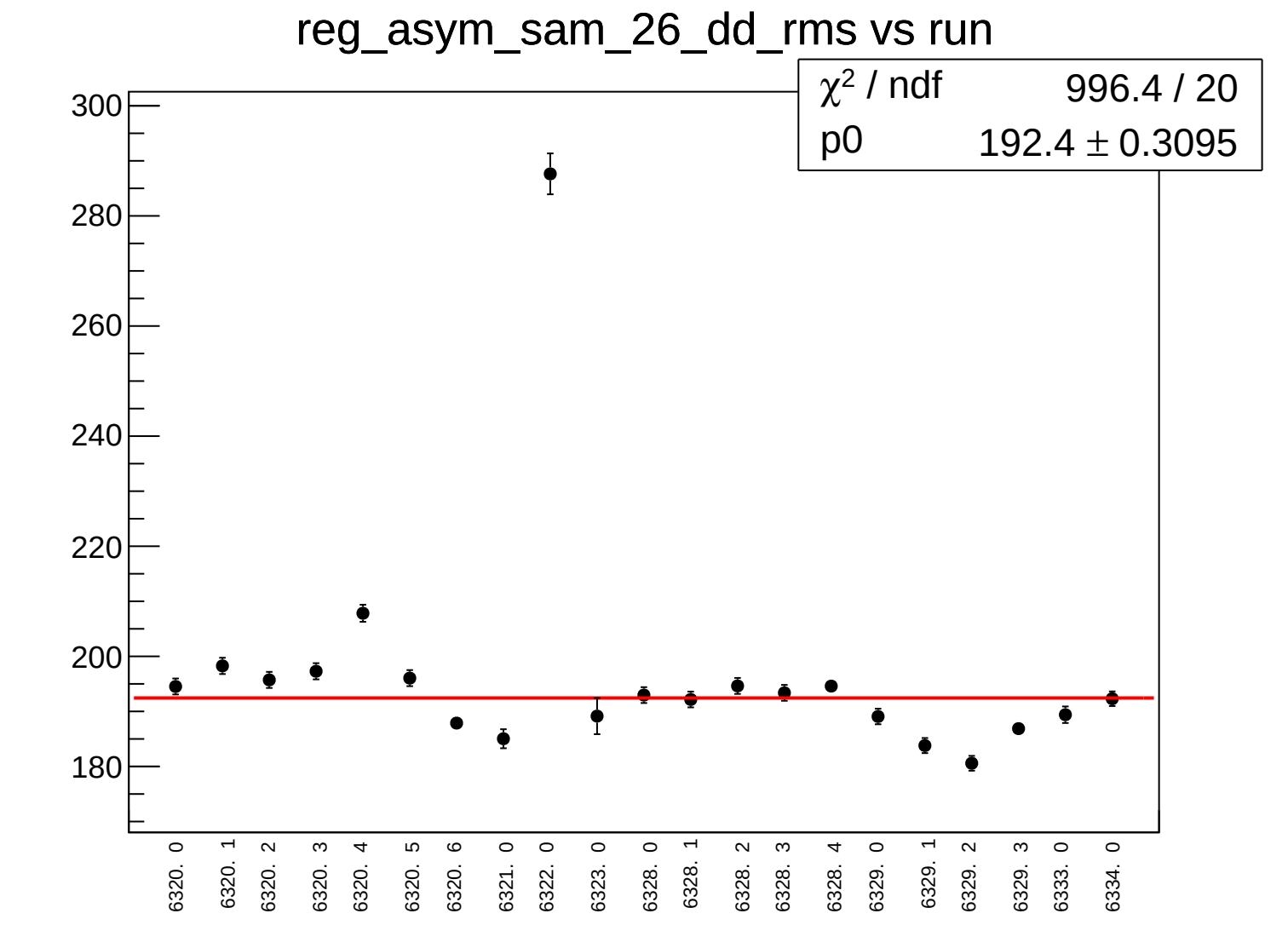

pull1D
Entries 21
Mean −0.06253
Std Dev 0.9348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

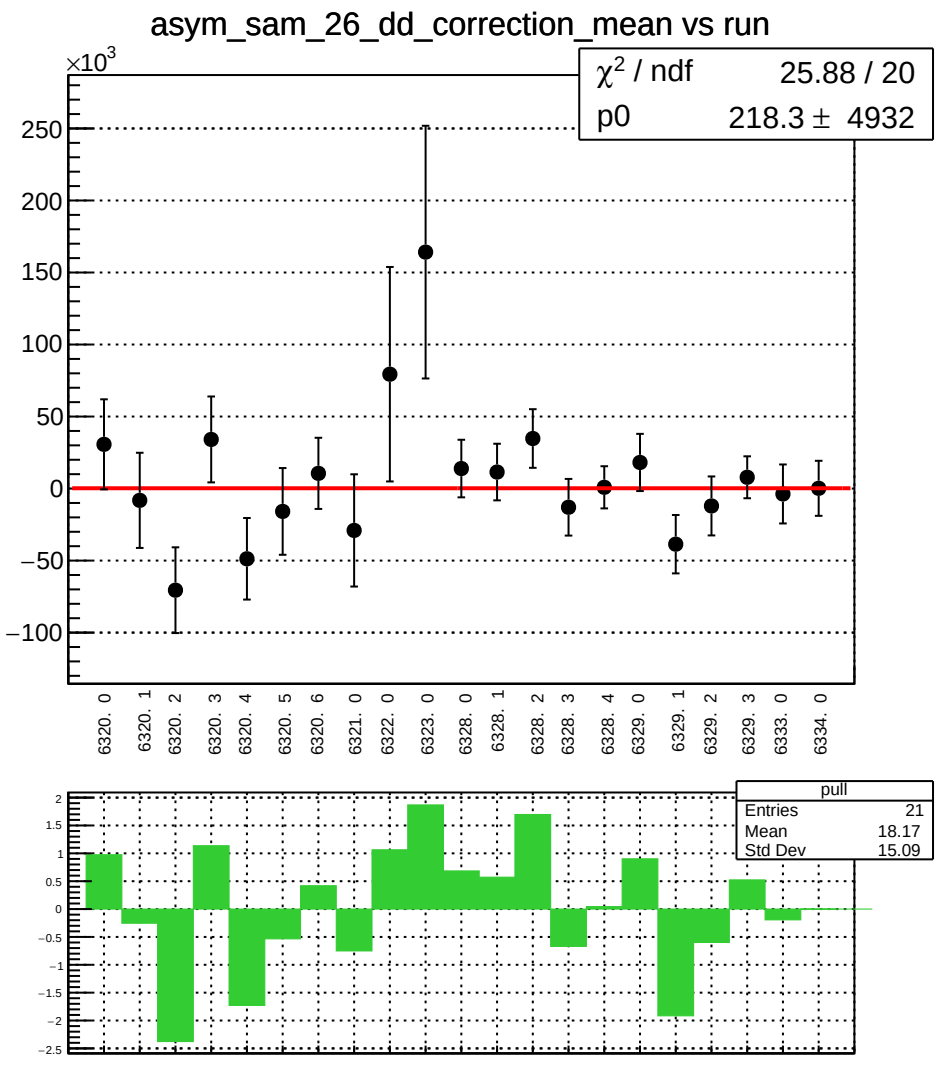

asym_sam_15_dd_rms vs run
χ^2 / ndf 5403 / 20
p0 629.1 ± 1.018
740
720
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

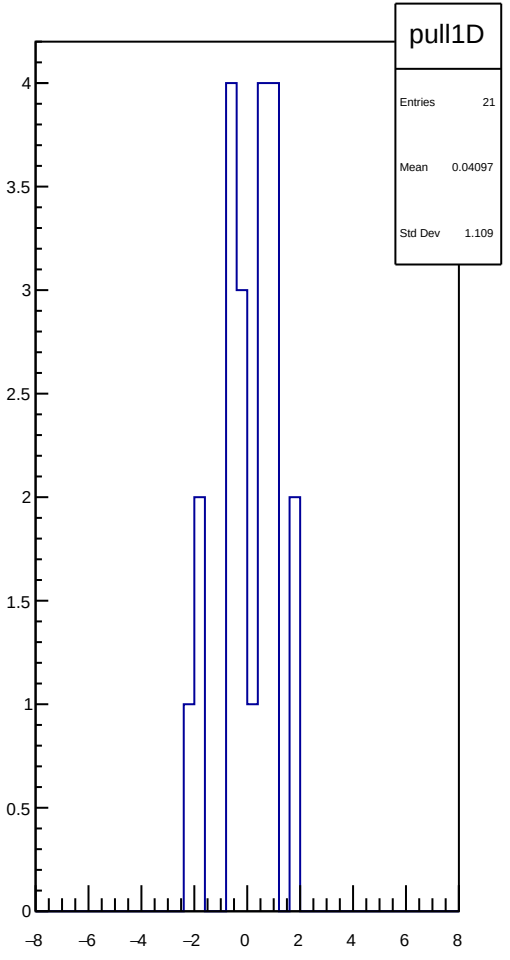

reg_asym_sam_26_dd_mean vs run
χ² / ndf 26.2 / 20
p0 605.2 ± 437.8
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

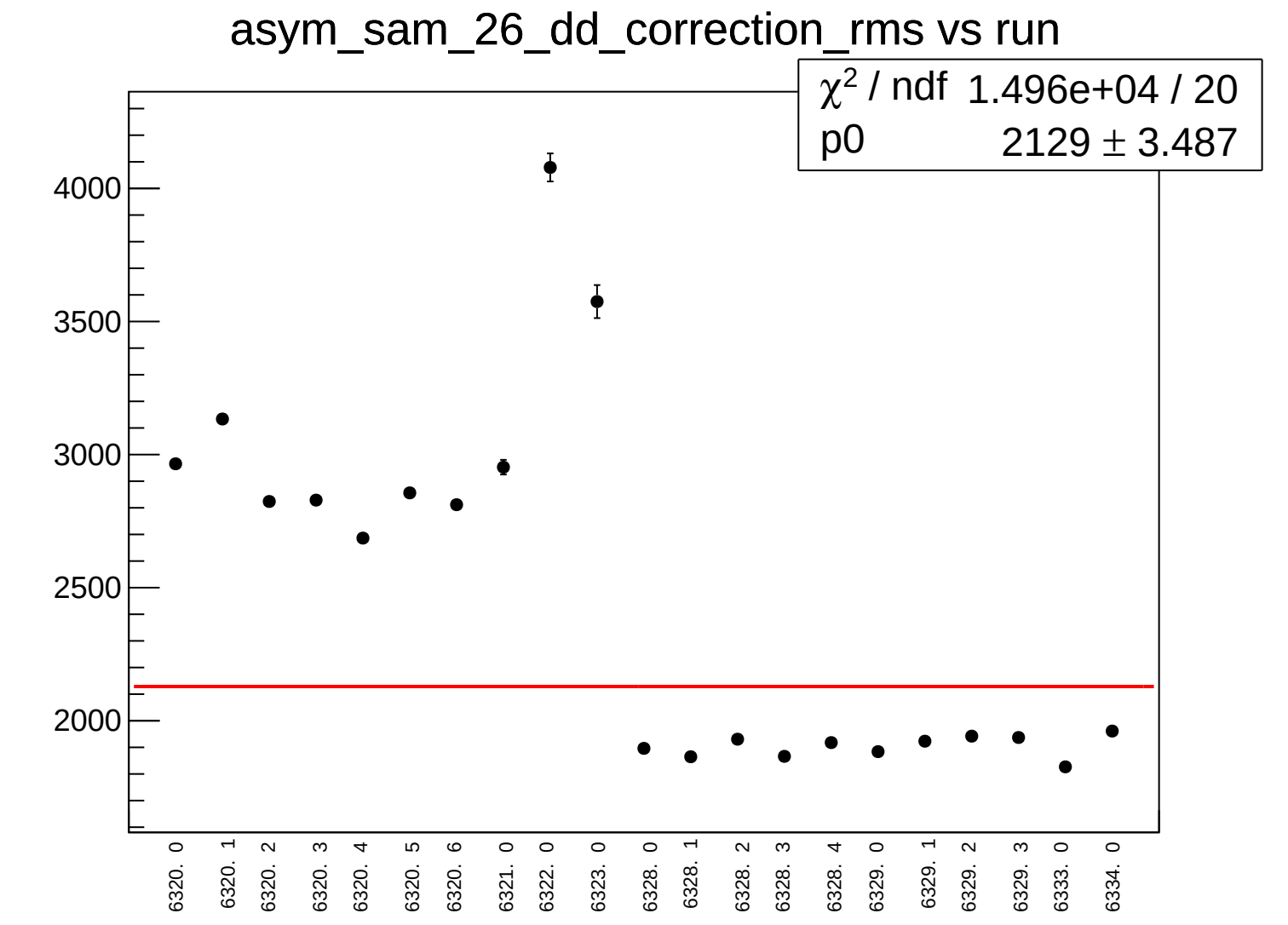

pull
Entries 21
Mean −38.92
Std Dev 49.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

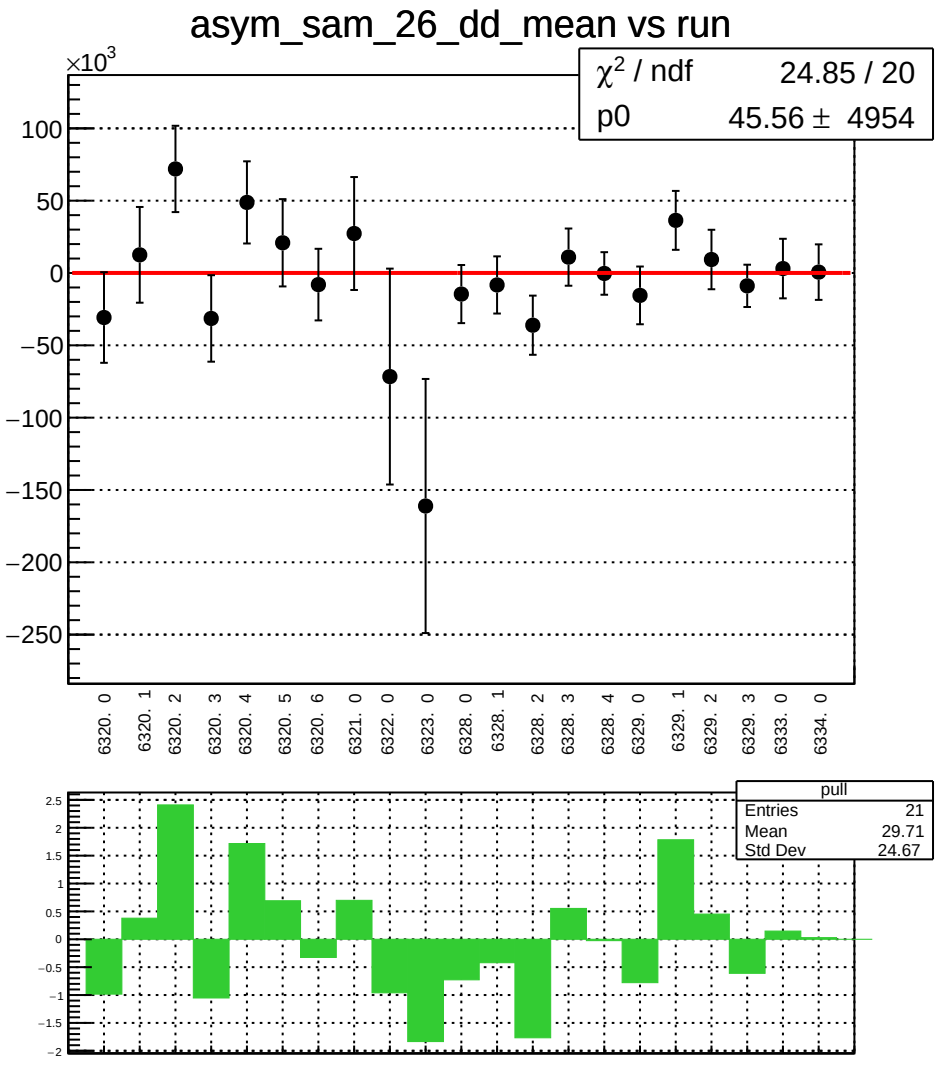

pull1D
Entries 21
Mean 0.06909
Std Dev 1.115
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

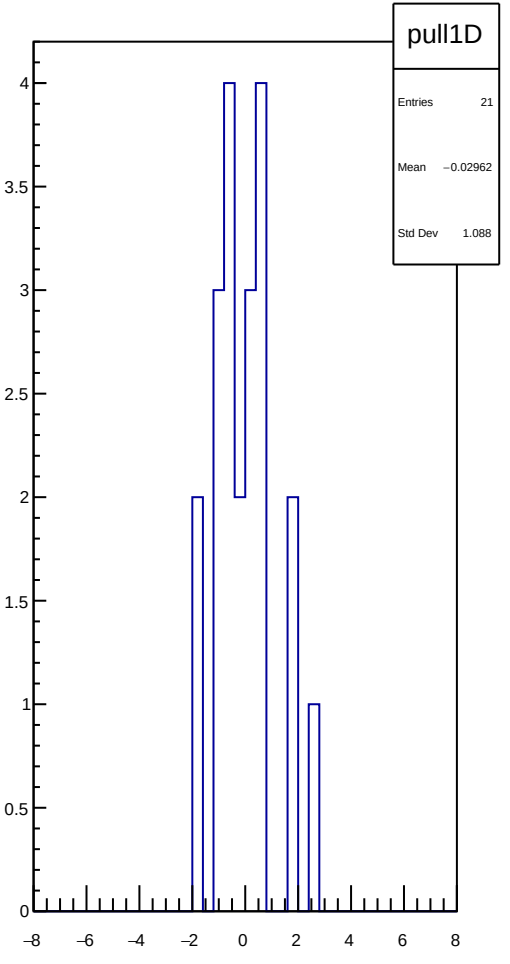

reg_asym_sam_26_dd_rms vs run
χ² / ndf 996.4 / 20
p0 192.4 ± 0.3095
300
280
260
240
220
200
180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

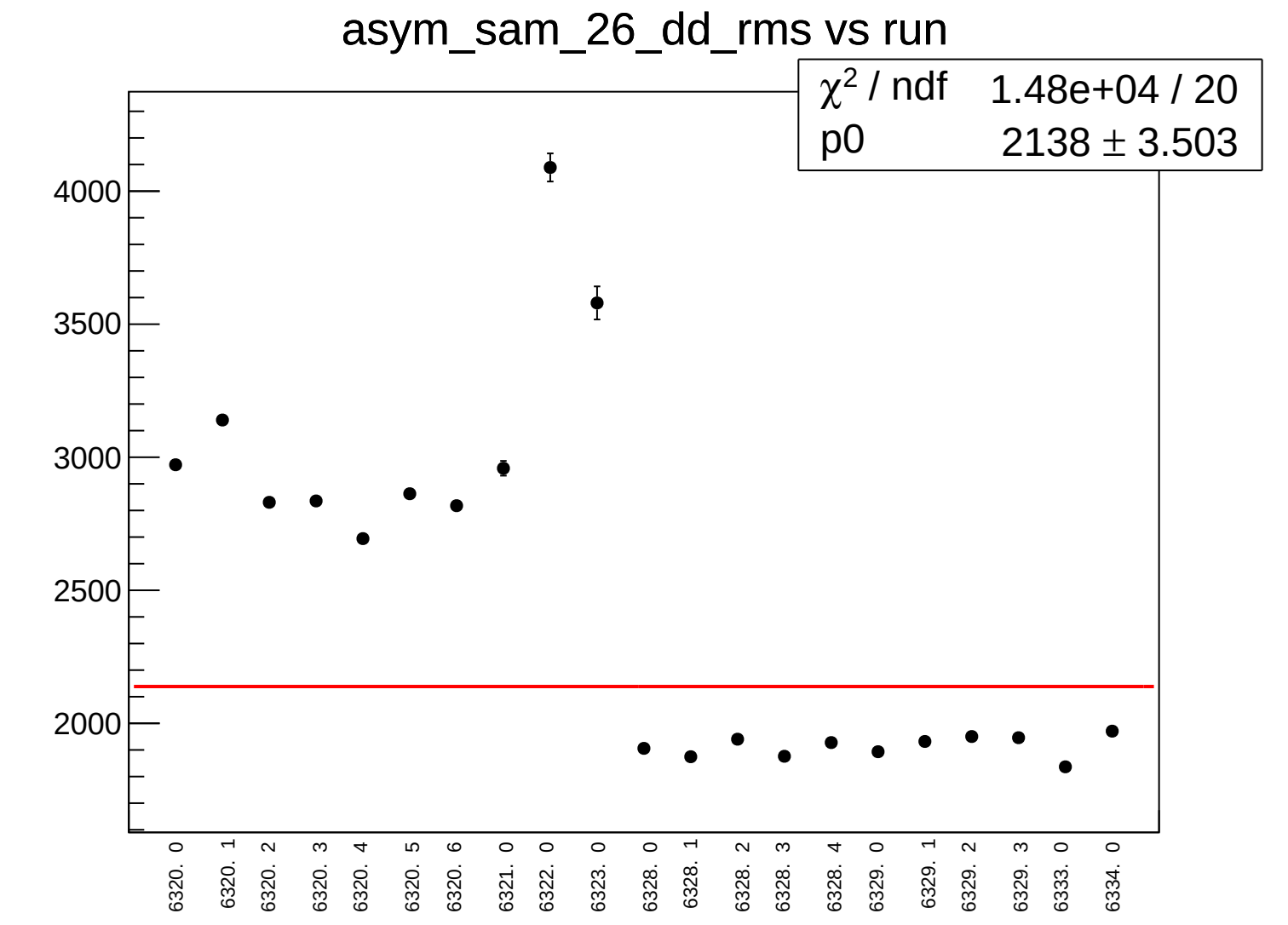

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 25.88 / 20
p0 218.3 ± 4932
250
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 18.17
Std Dev 15.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

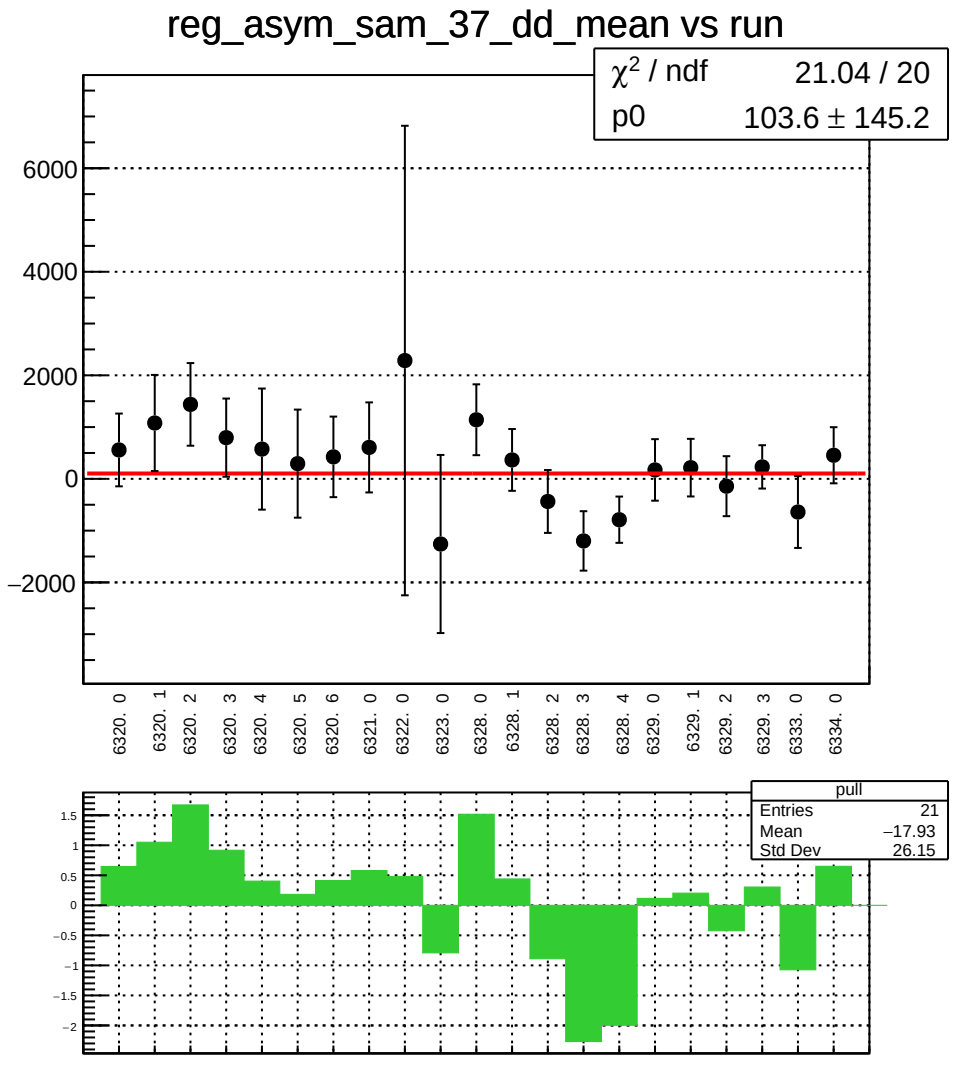

pull1D
Entries 21
Mean 0.04097
Std Dev 1.109
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

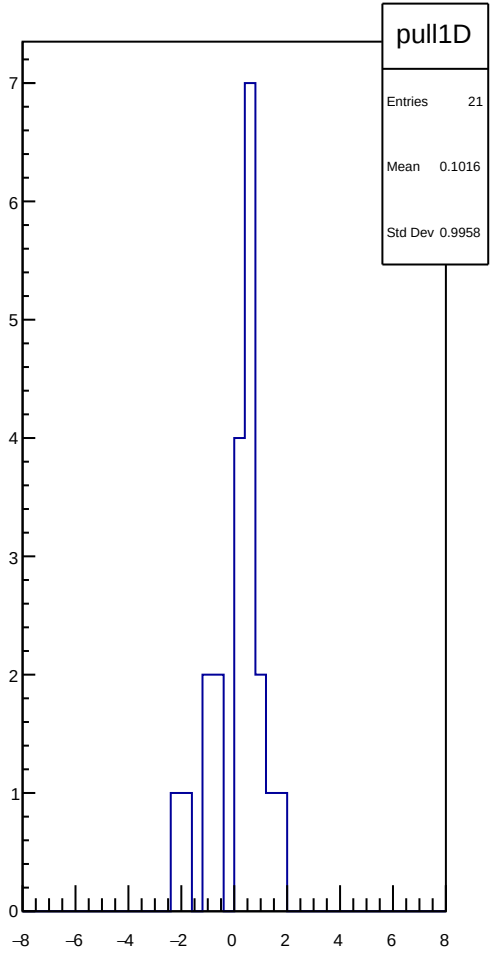

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.496e+04 / 20
p0 2129 ± 3.487
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

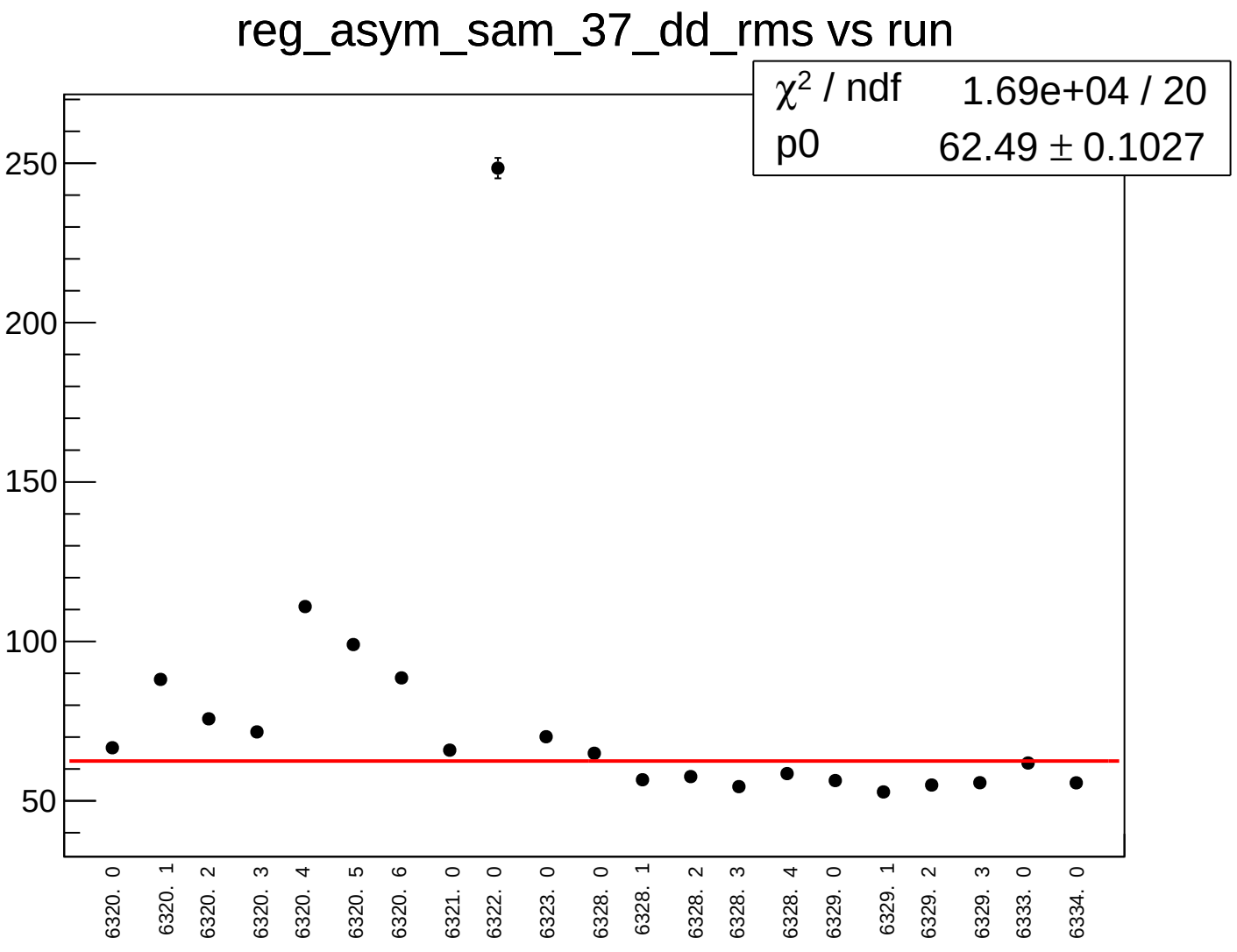

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 24.85 / 20
p0 45.56 ± 4954
100
50
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.71
Std Dev 24.67
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

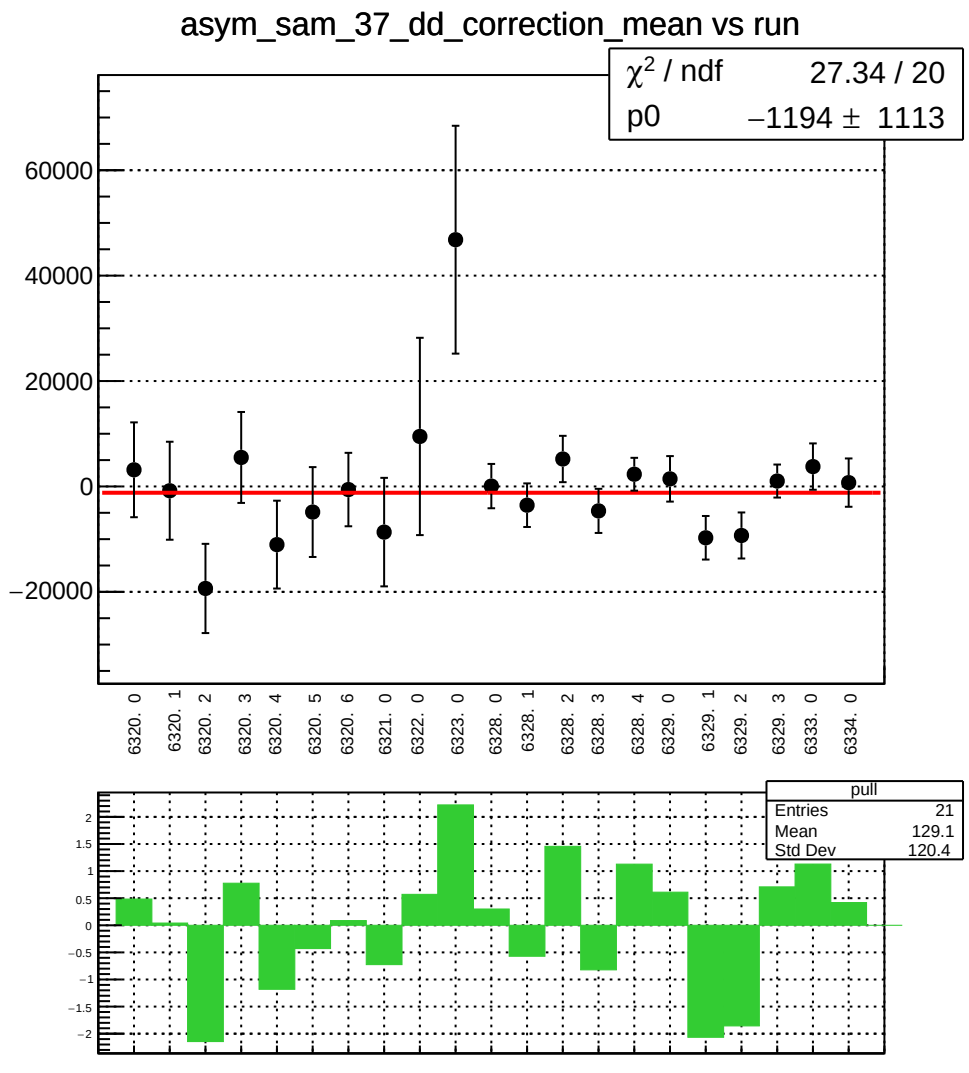

pull1D
Entries 21
Mean −0.02962
Std Dev 1.088
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

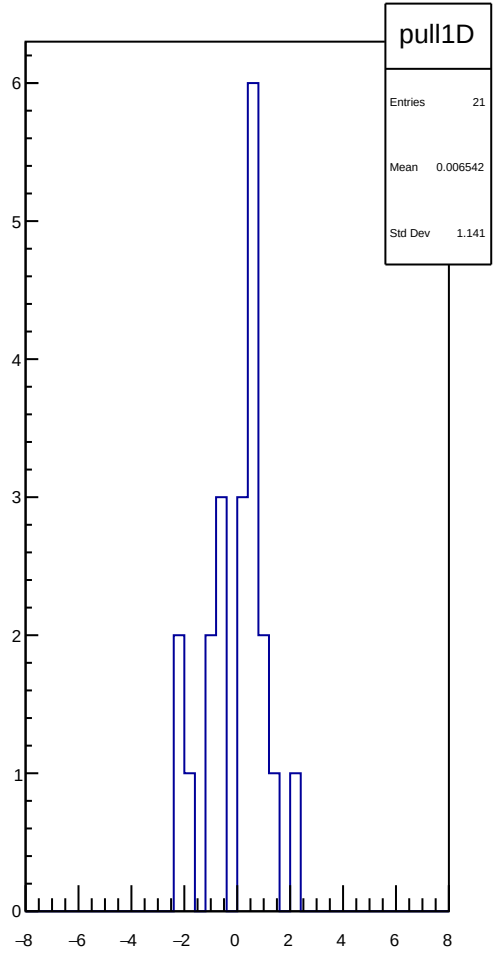

asym_sam_26_dd_rms vs run
χ² / ndf 1.48e+04 / 20
p0 2138 ± 3.503
4000
3500
3000
2500
2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

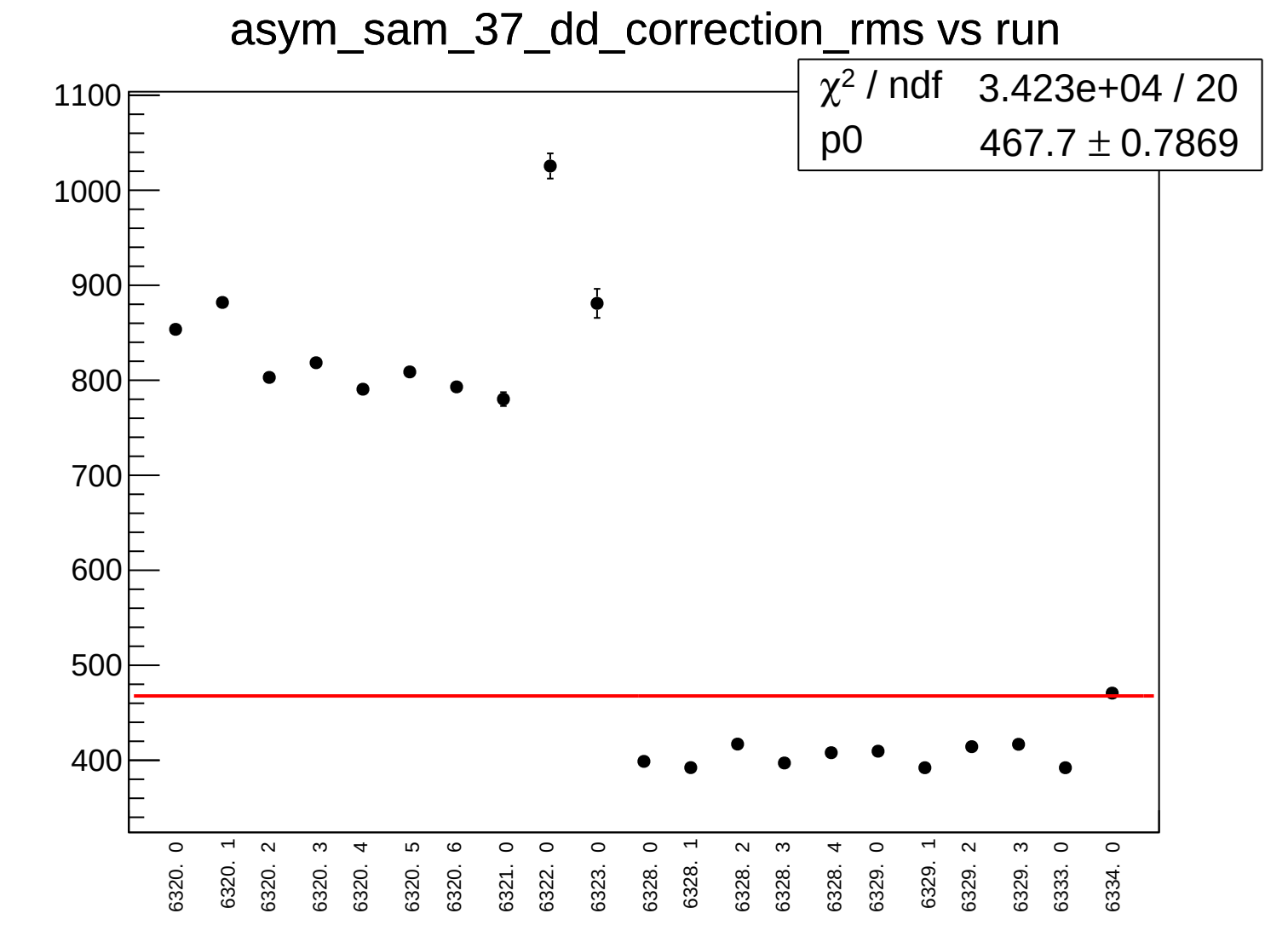

reg_asym_sam_37_dd_mean vs run
χ² / ndf 21.04 / 20
p0 103.6 ± 145.2
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −17.93
Std Dev 26.15
1.5
1
0.5
0
−0.5
−1
−1.5
−2

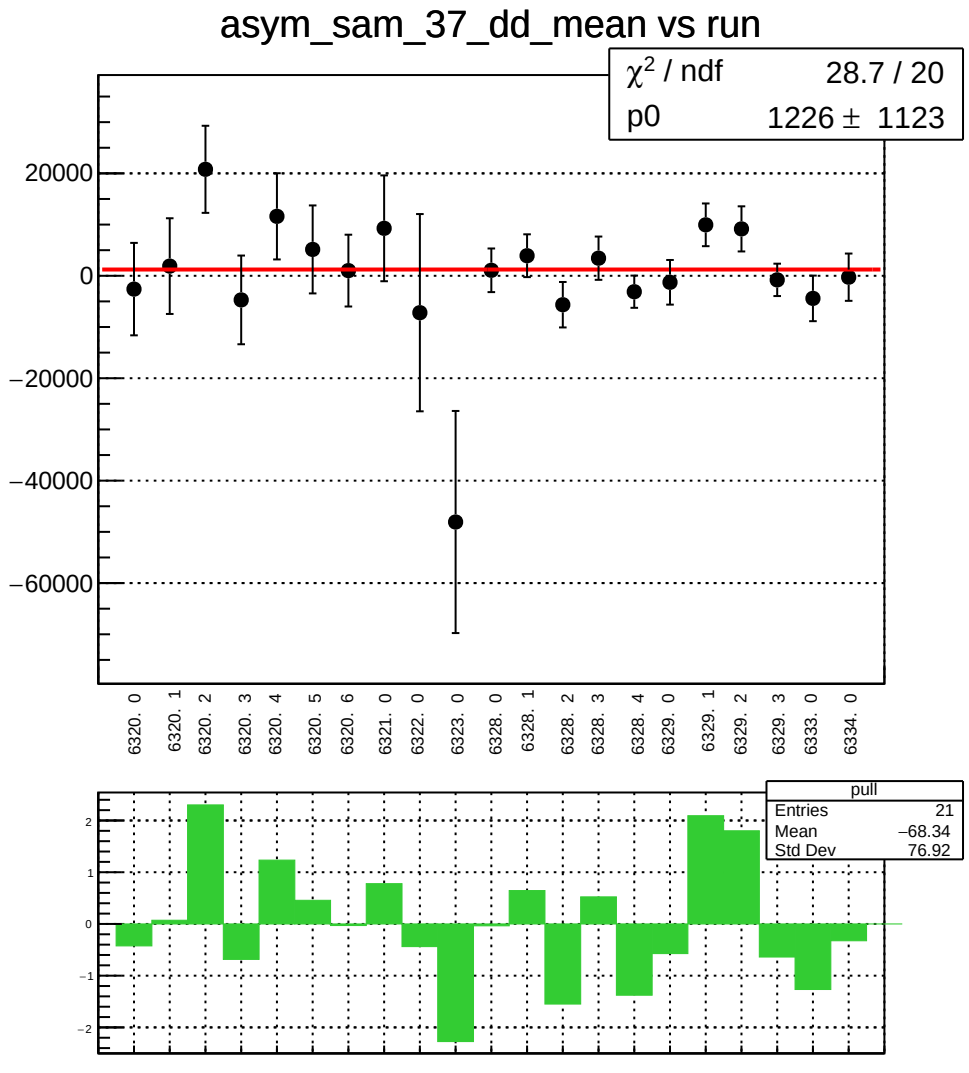

pull1D
Entries 21
Mean 0.1016
Std Dev 0.9958
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

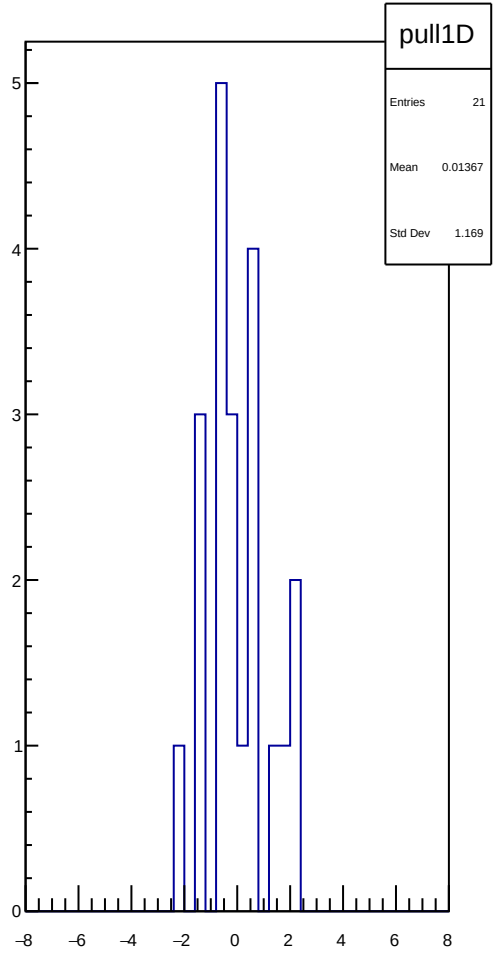

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.69e+04 / 20
p0 62.49 ± 0.1027
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

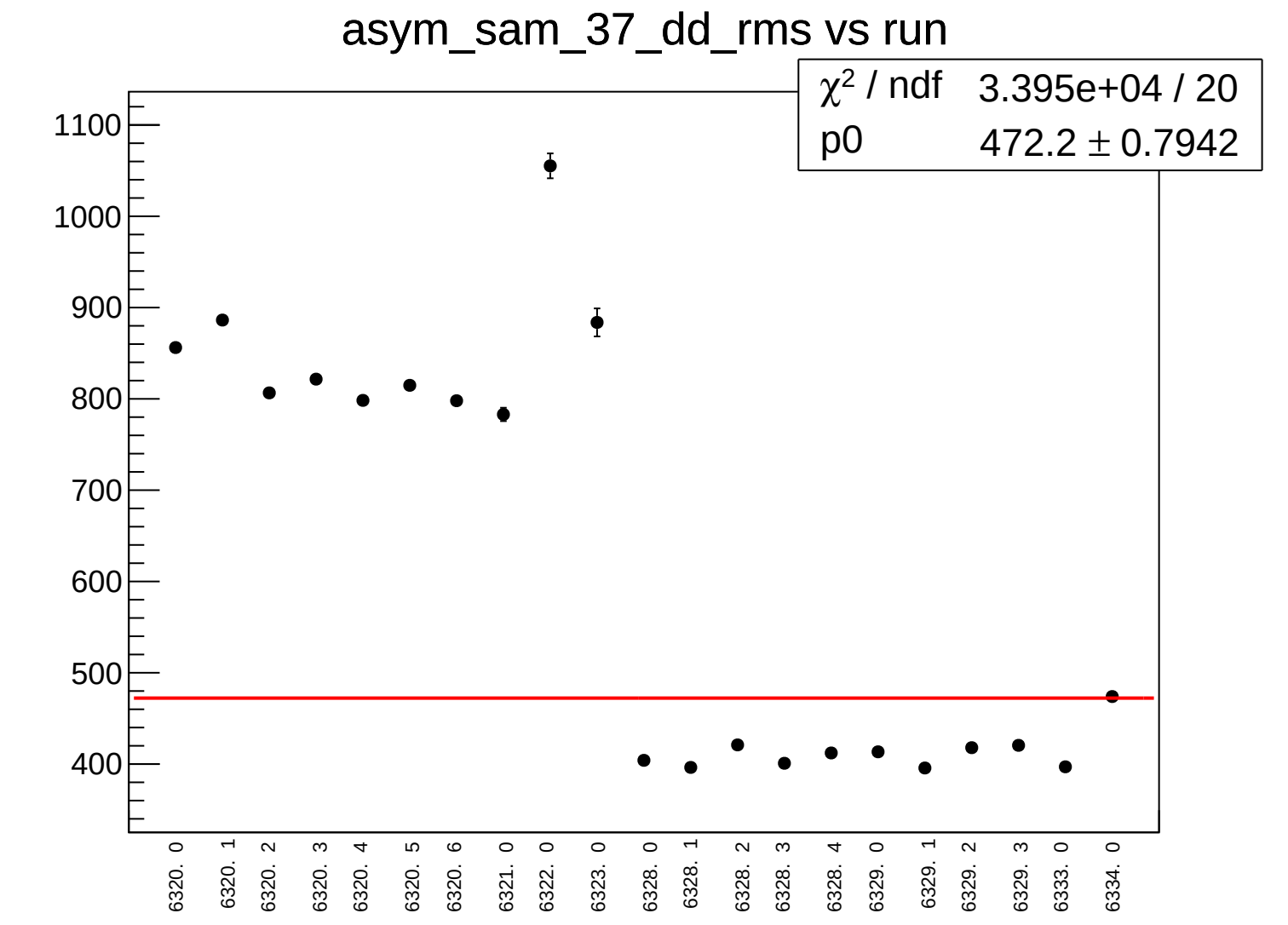

asym_sam_37_dd_correction_mean vs run
χ² / ndf 27.34 / 20
p0 −1194 ± 1113
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 129.1
Std Dev 120.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

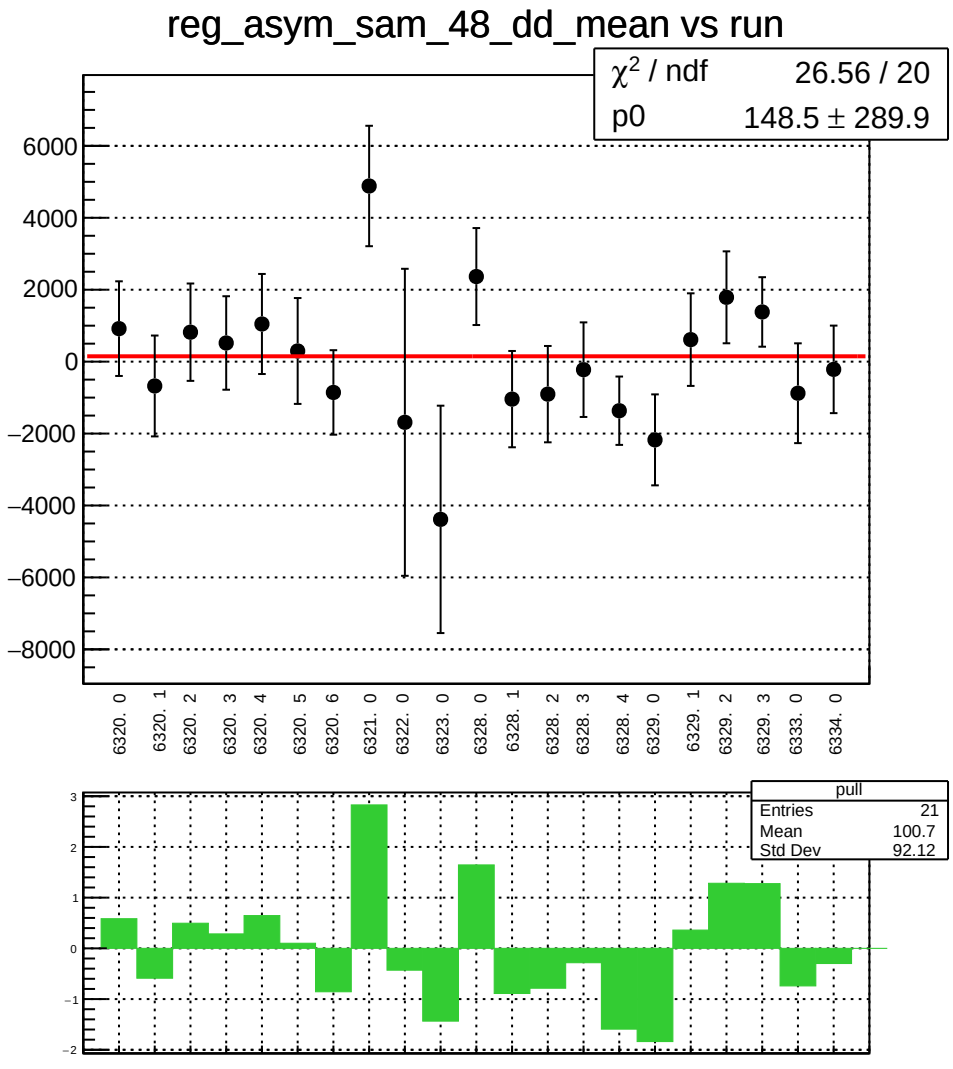

pull1D
Entries 21
Mean 0.006542
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

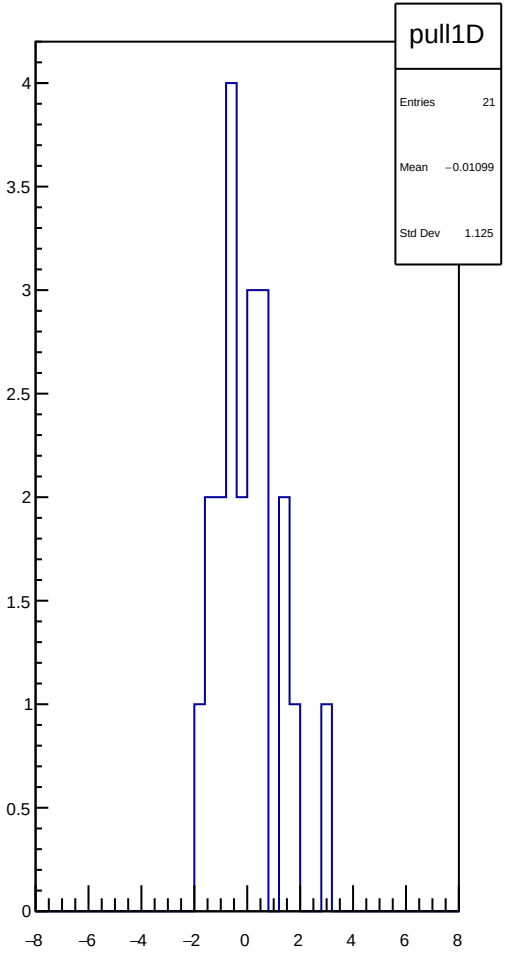

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.423e+04 / 20
p0 467.7 ± 0.7869
1100
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

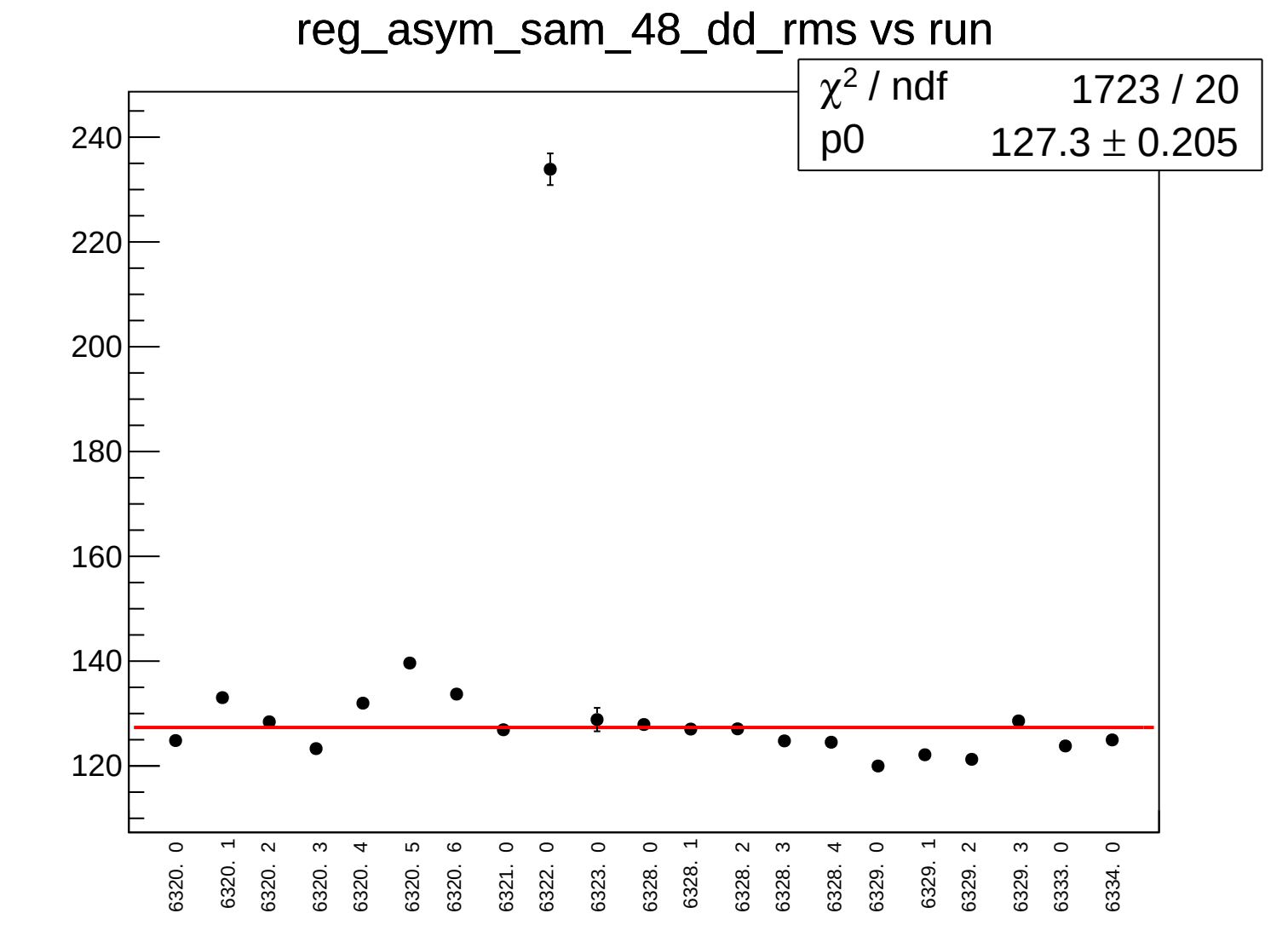

asym_sam_37_dd_mean vs run
χ² / ndf 28.7 / 20
p0 1226 ± 1123
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −68.34
Std Dev 76.92
2
1
0
−1
−2

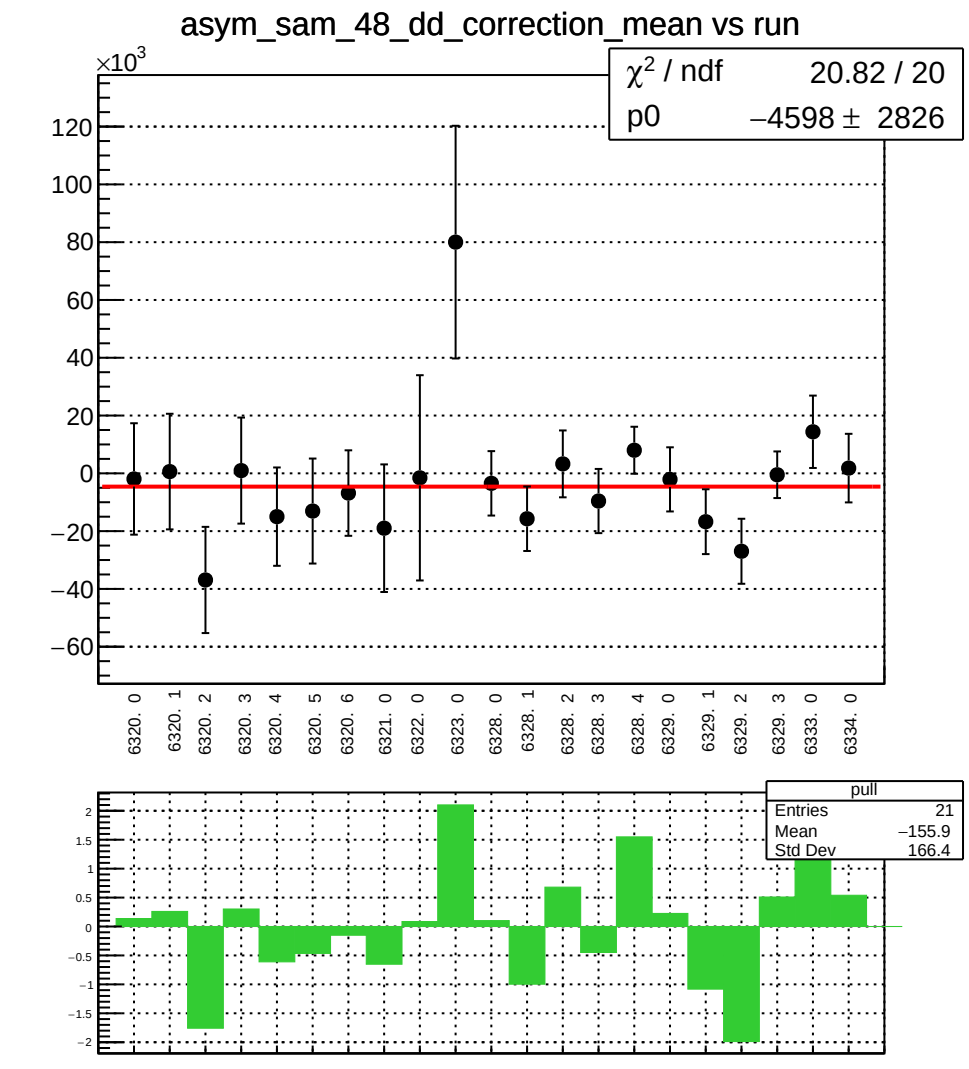

pull1D
Entries 21
Mean 0.01367
Std Dev 1.169
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

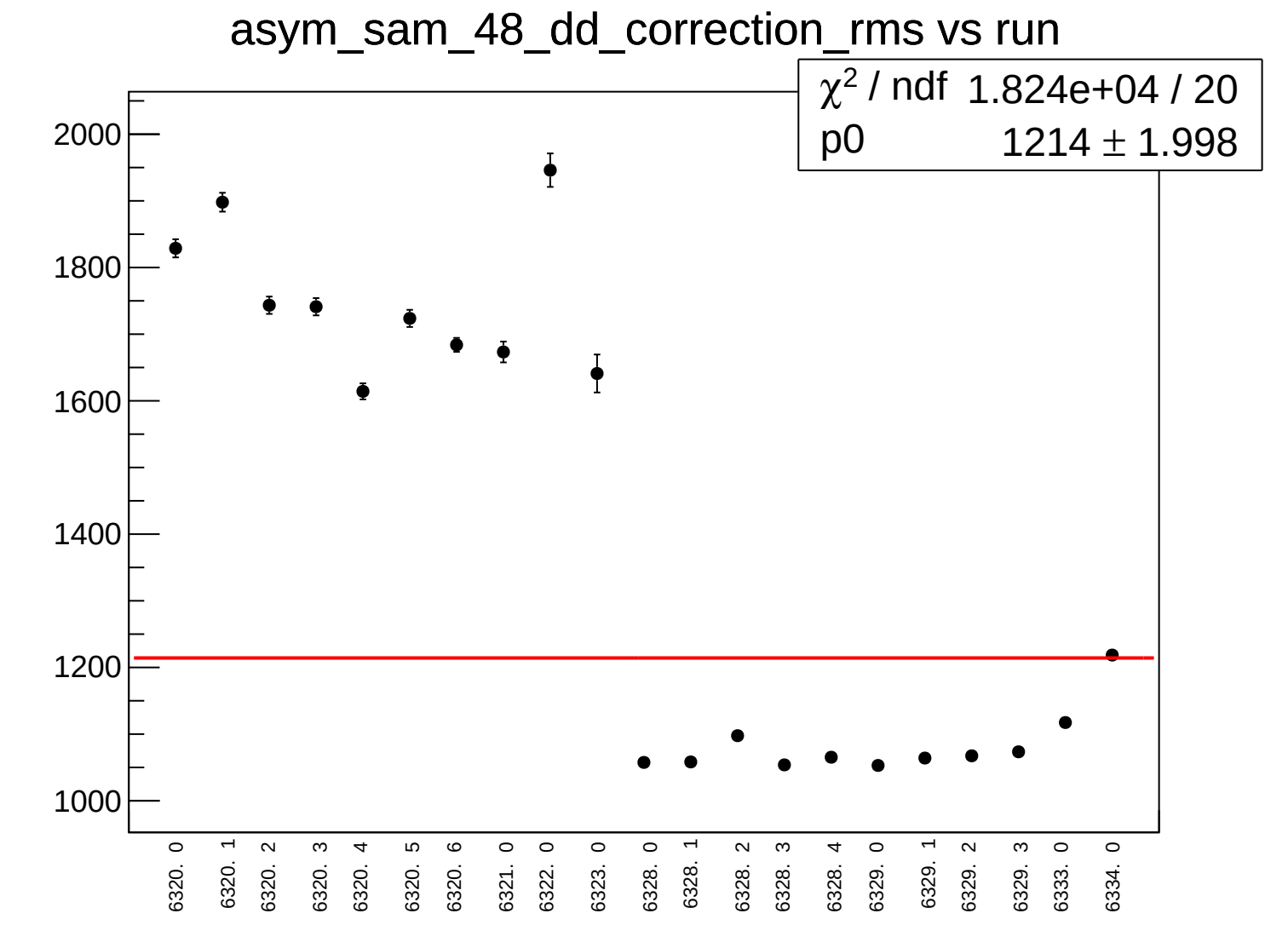

asym_sam_37_dd_rms vs run
χ² / ndf 3.395e+04 / 20
p0 472.2 ± 0.7942
1100
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

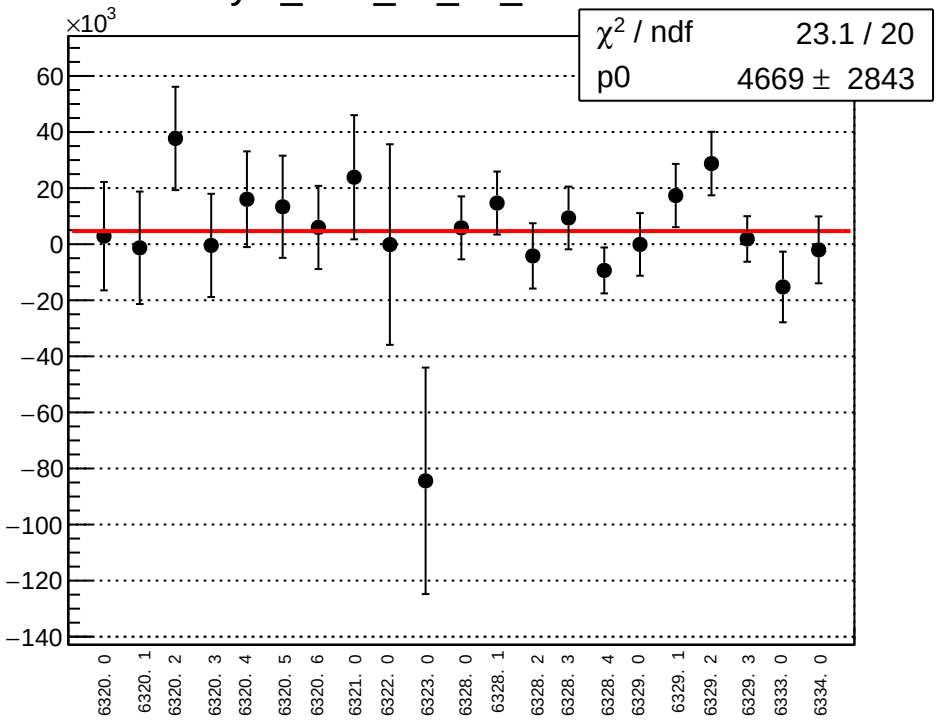

reg_asym_sam_48_dd_mean vs run
χ² / ndf 26.56 / 20
p0 148.5 ± 289.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 100.7
Std Dev 92.12
3
2
1
0
−1
−2

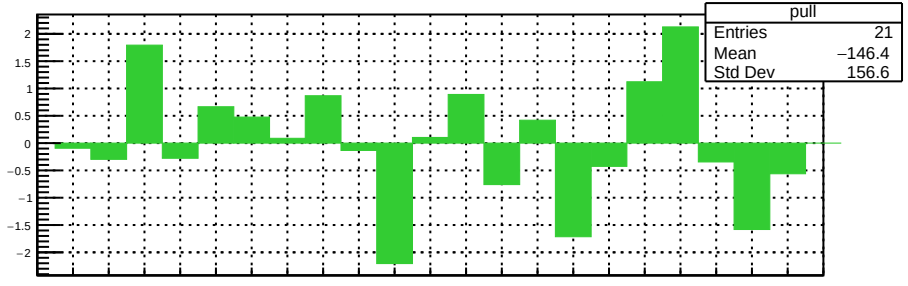

pull1D
Entries 21
Mean −0.01099
Std Dev 1.125
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

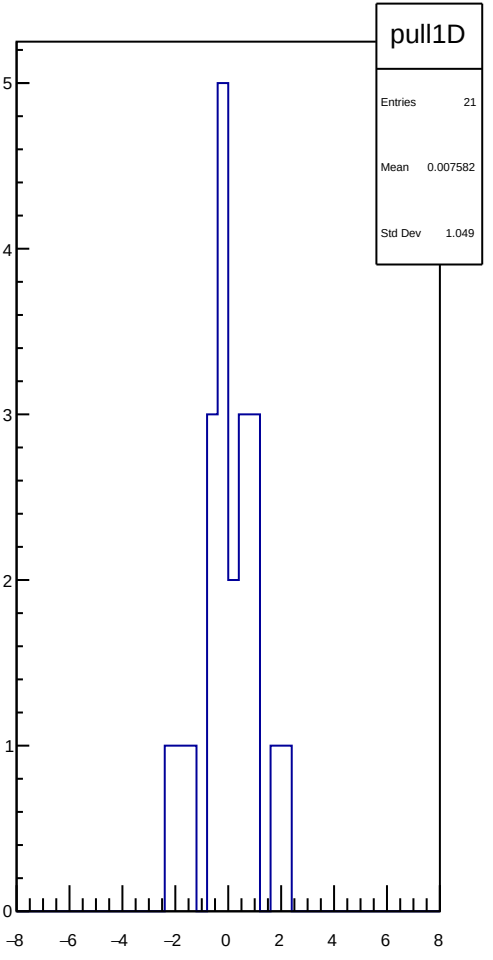

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1723 / 20
p0 127.3 ± 0.205
240
220
200
180
160
140
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

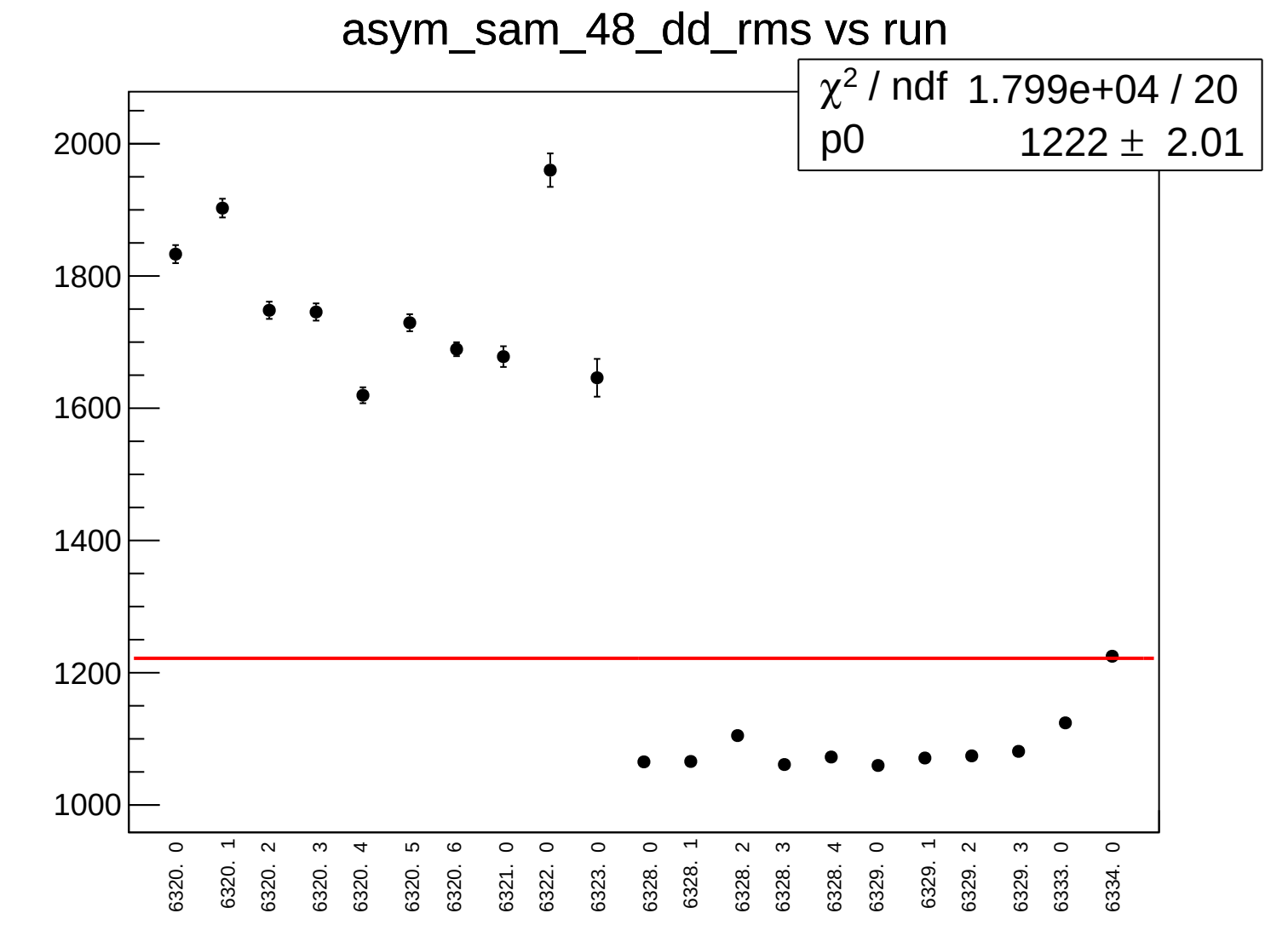

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 20.82 / 20
p0 −4598 ± 2826
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −155.9
Std Dev 166.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.006737
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

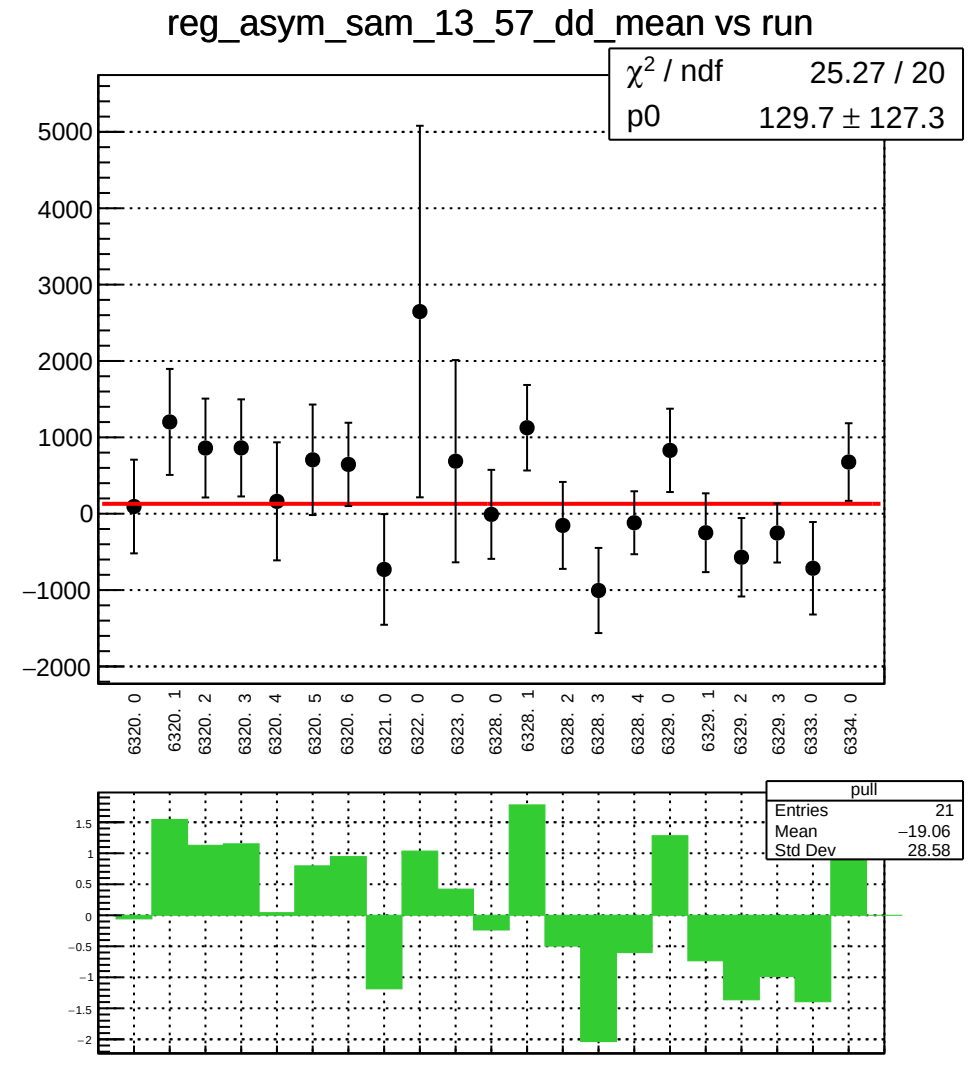

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1.824e+04 / 20
p0 1214 ± 1.998
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

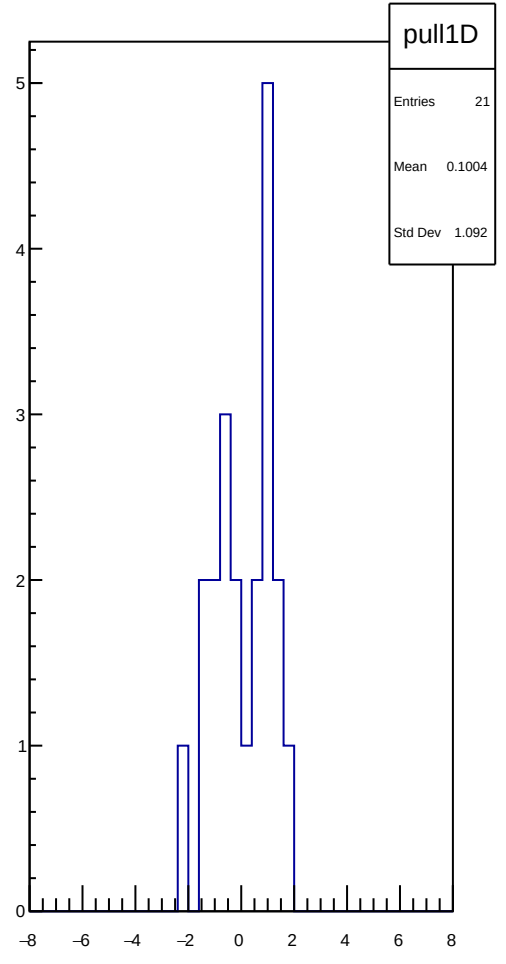

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 23.1 / 20
p0 4669 ± 2843
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

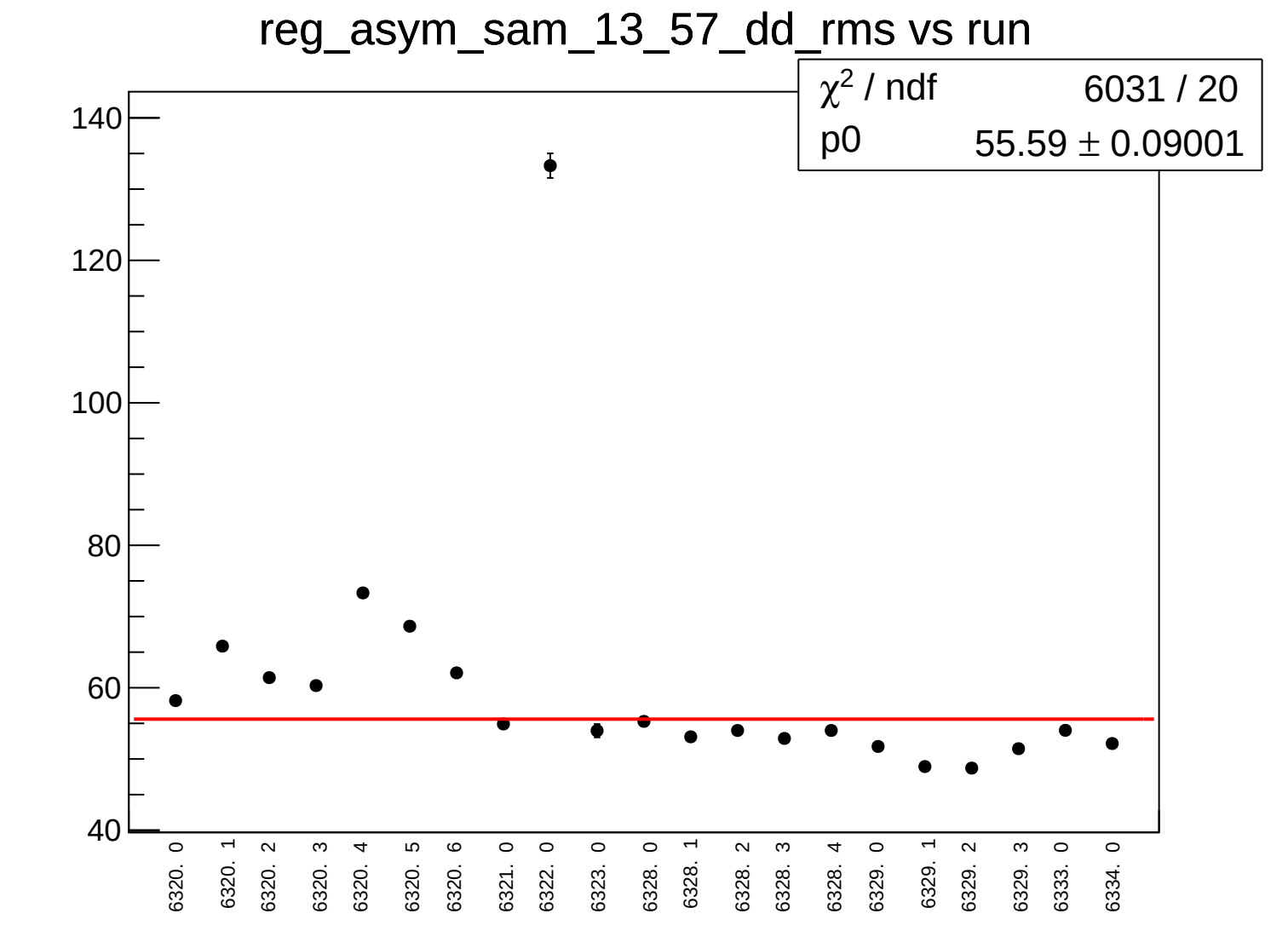

pull
Entries 21
Mean −146.4
Std Dev 156.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

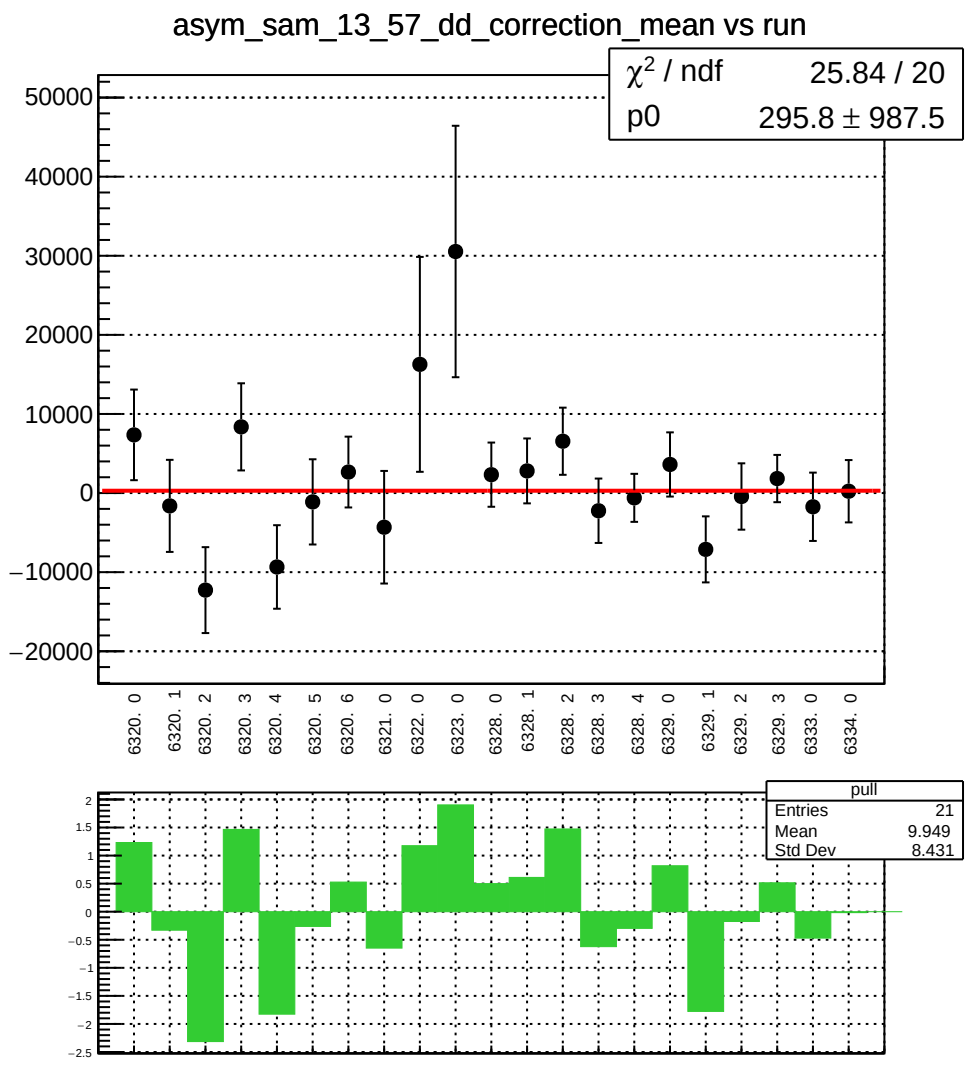

pull1D
Entries 21
Mean 0.007582
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

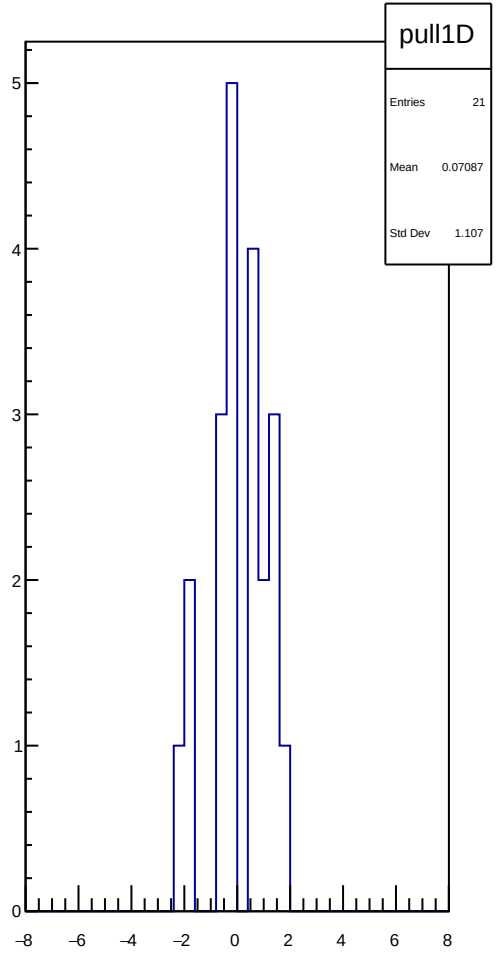

asym_sam_48_dd_rms vs run
χ² / ndf 1.799e+04 / 20
p0 1222 ± 2.01
2000
1800
1600
1400
1200
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

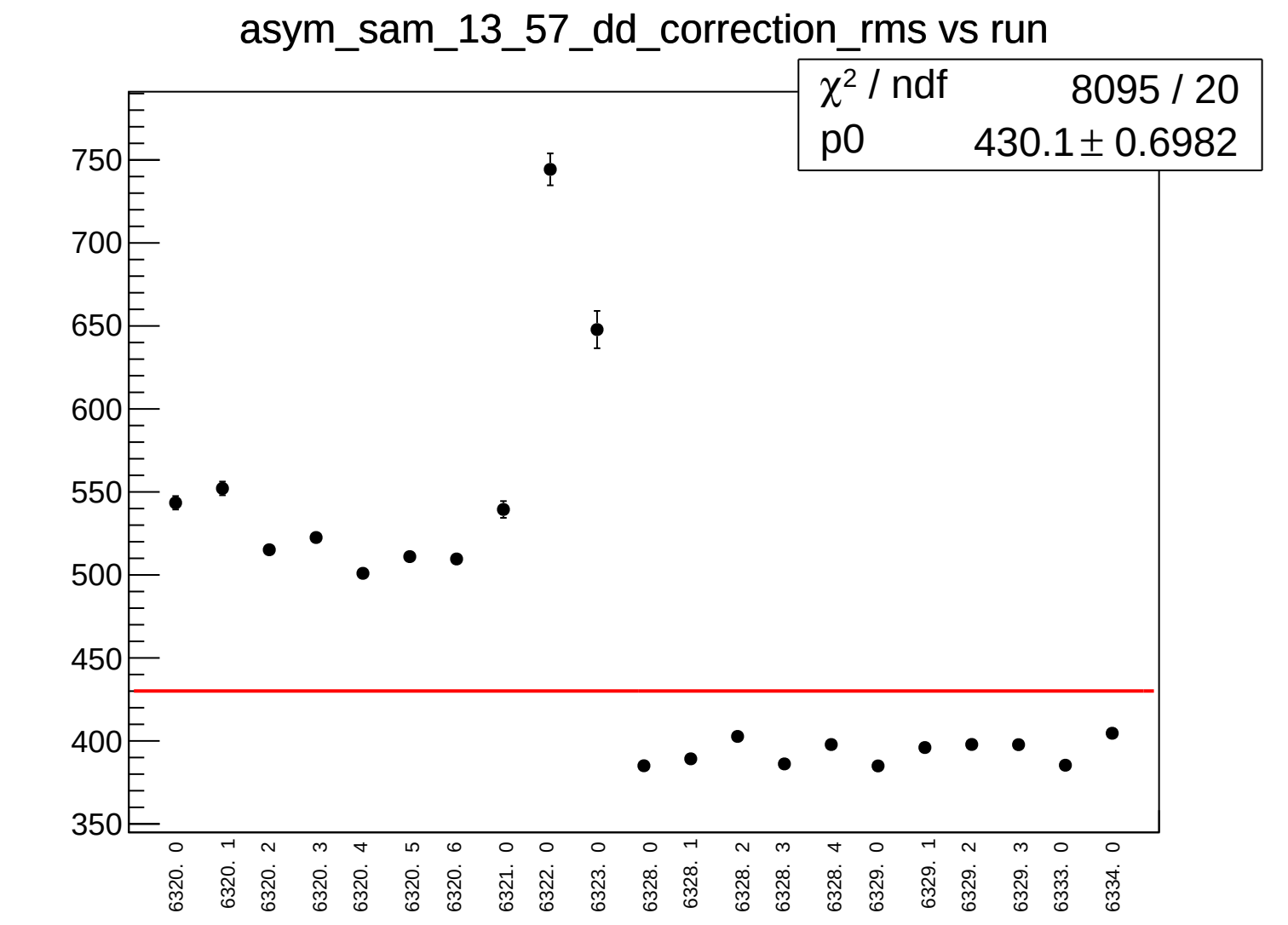

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 25.27 / 20
p0 129.7 ± 127.3
5000
4000
3000
2000
1000
0
−1000
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −19.06
Std Dev 28.58
1.5
1
0.5
0
−0.5
−1
−1.5
−2

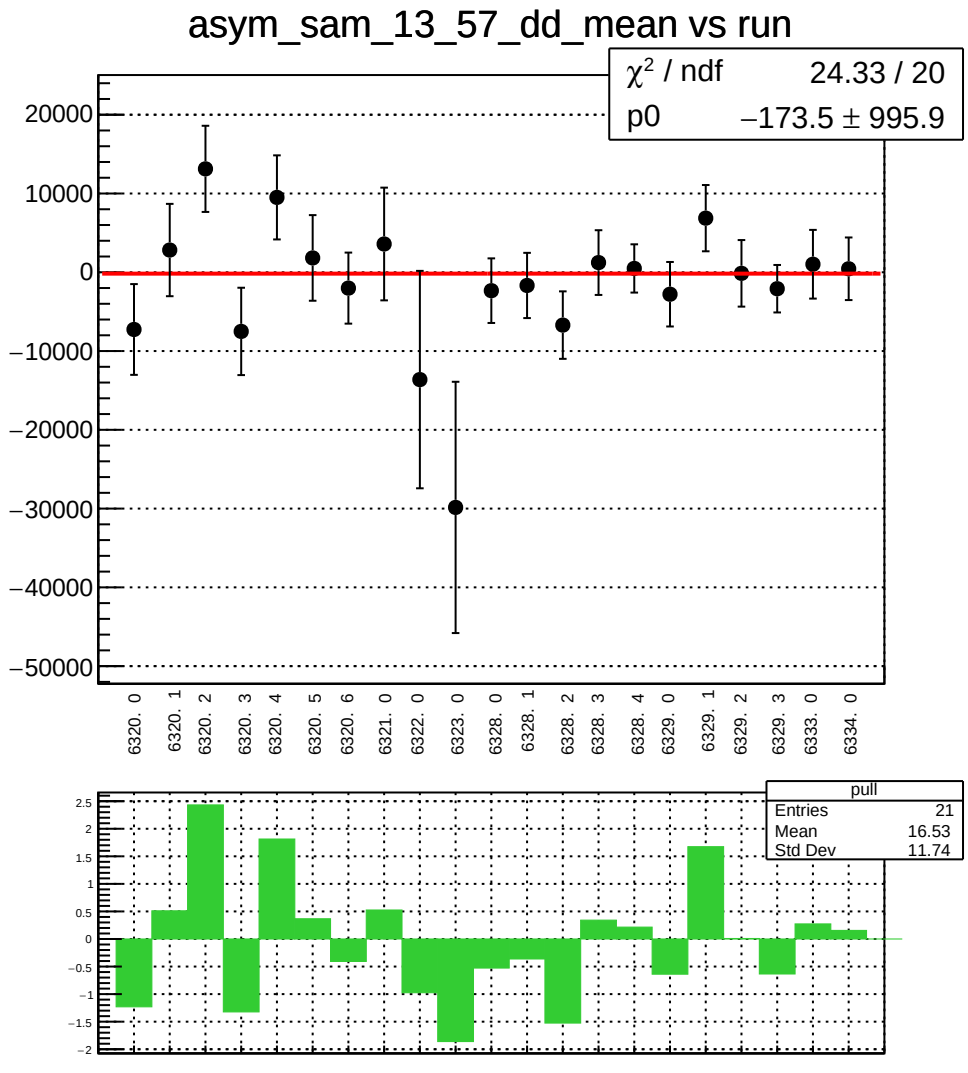

pull1D
Entries 21
Mean 0.1004
Std Dev 1.092
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

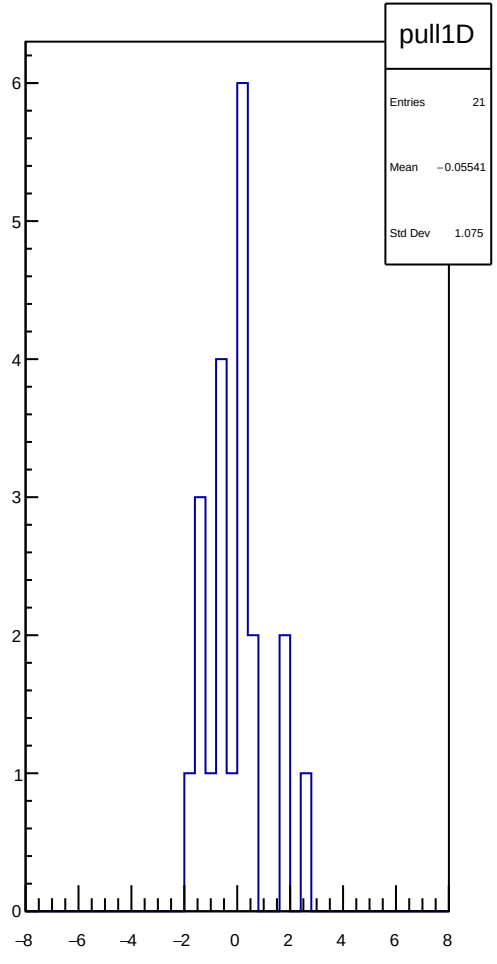

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 6031 / 20
p0 55.59 ± 0.09001
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

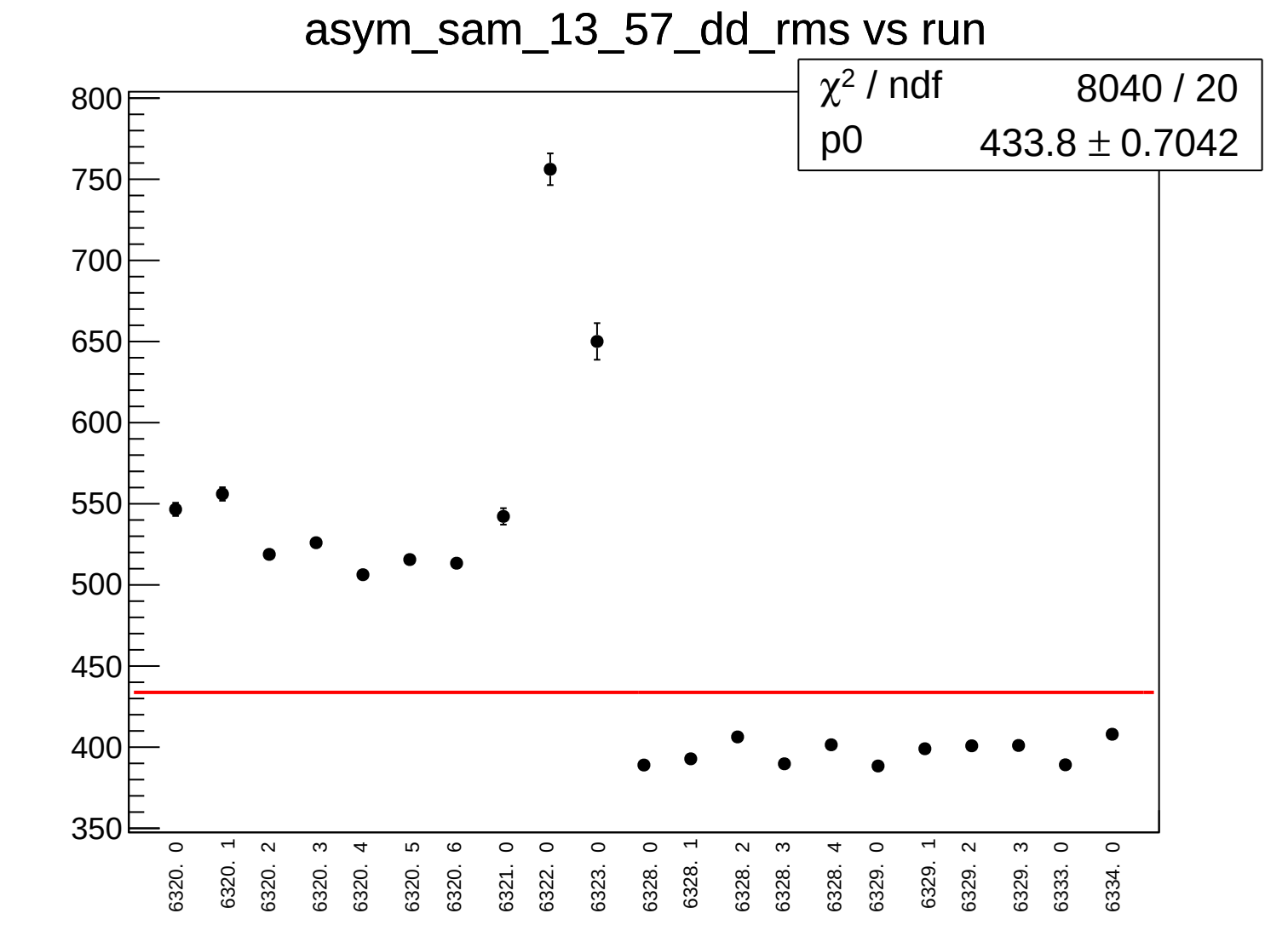

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 25.84 / 20
p0 295.8 ± 987.5
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.949
Std Dev 8.431
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

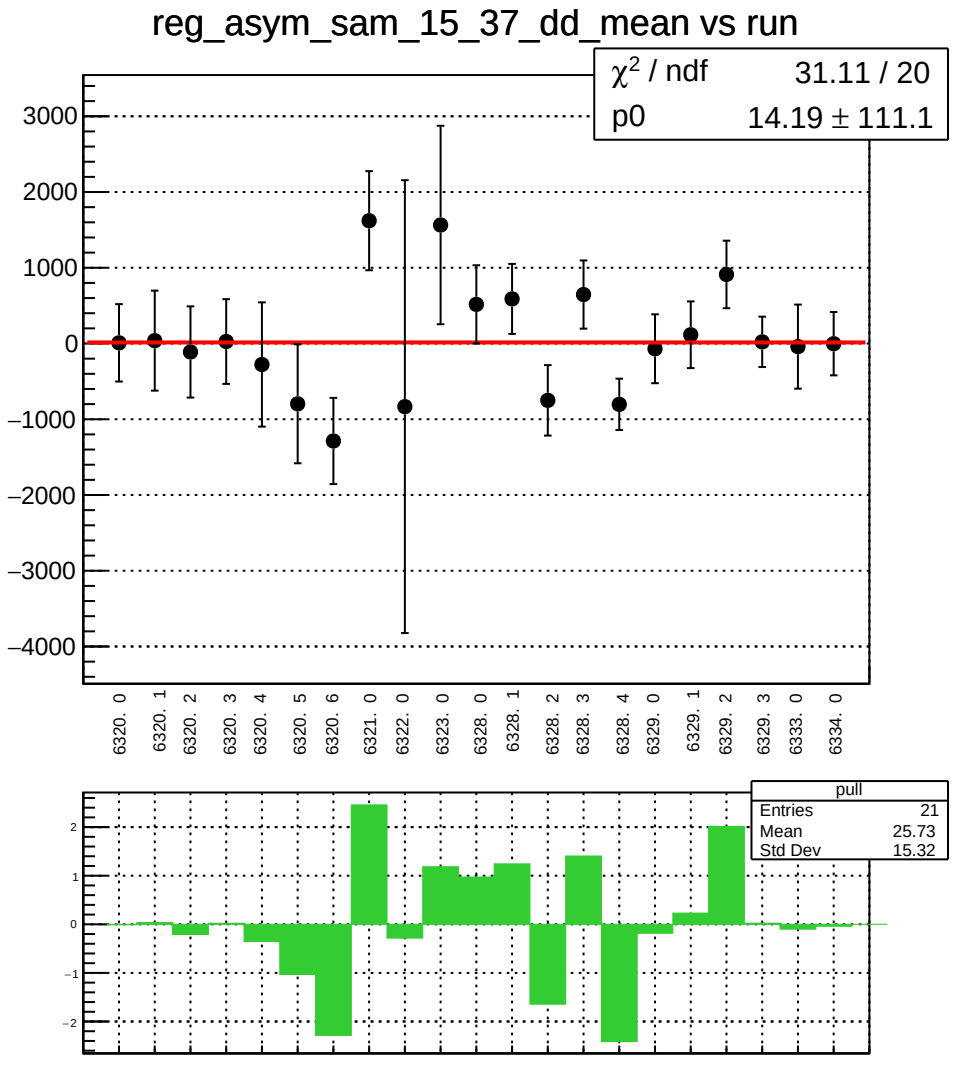

pull1D
Entries 21
Mean 0.07087
Std Dev 1.107
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

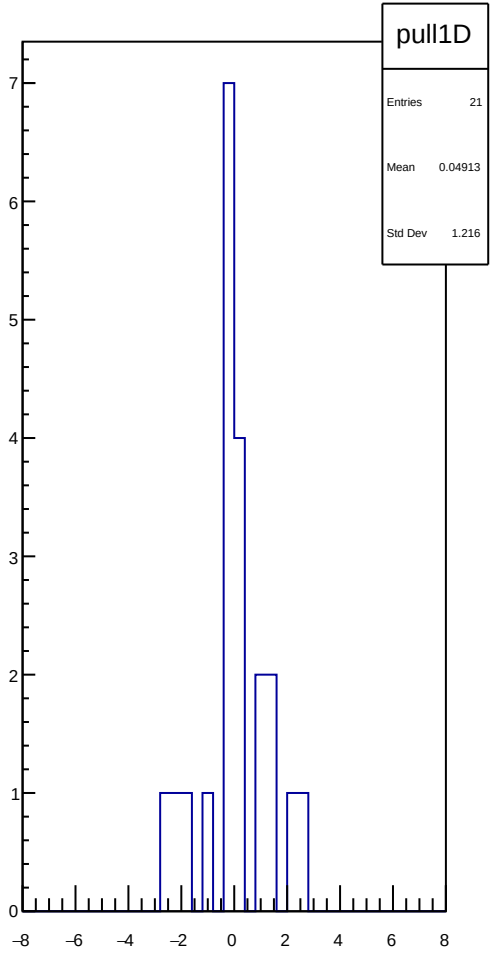

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 8095 / 20
p0 430.1 ± 0.6982
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

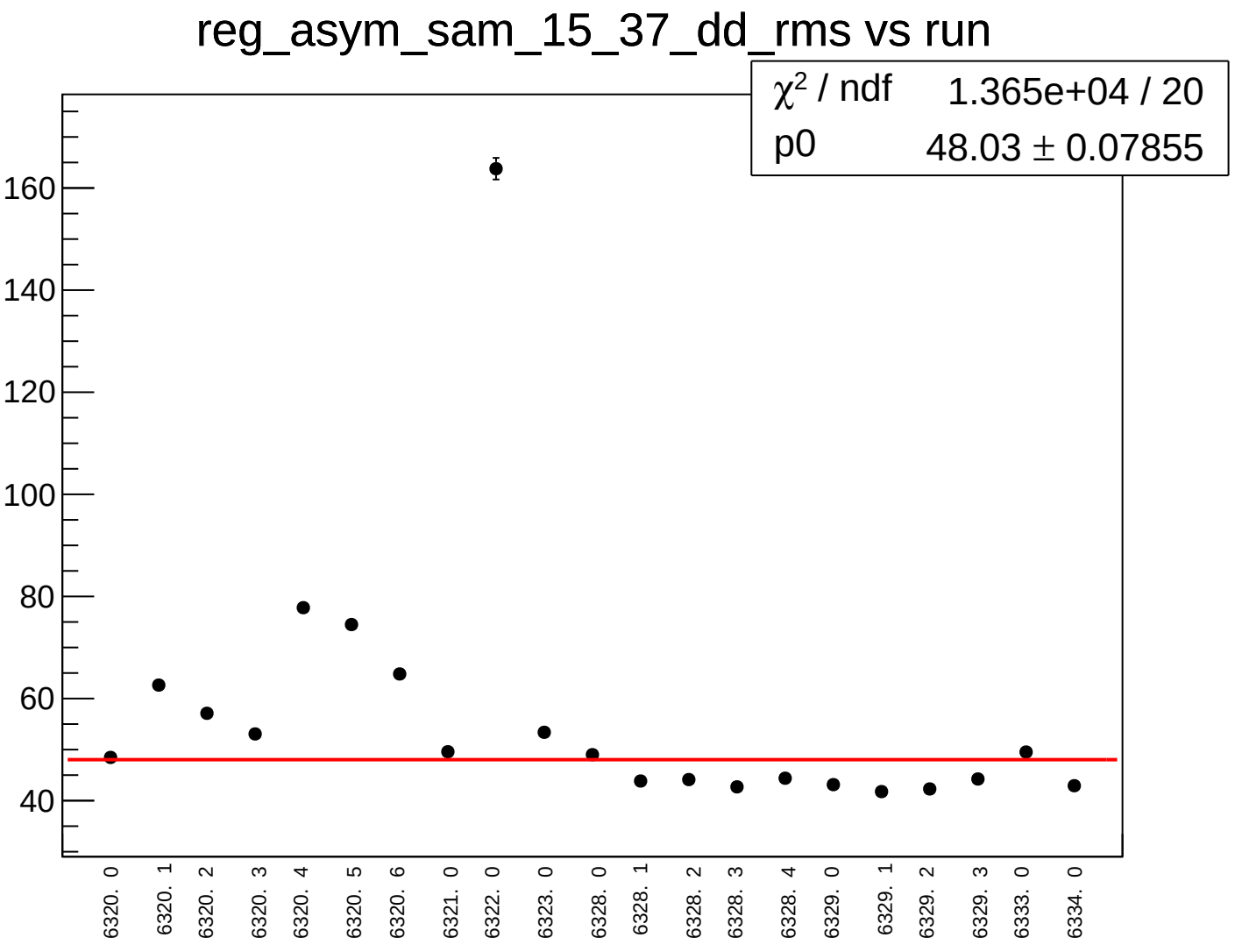

asym_sam_13_57_dd_mean vs run
χ² / ndf 24.33 / 20
p0 −173.5 ± 995.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.53
Std Dev 11.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

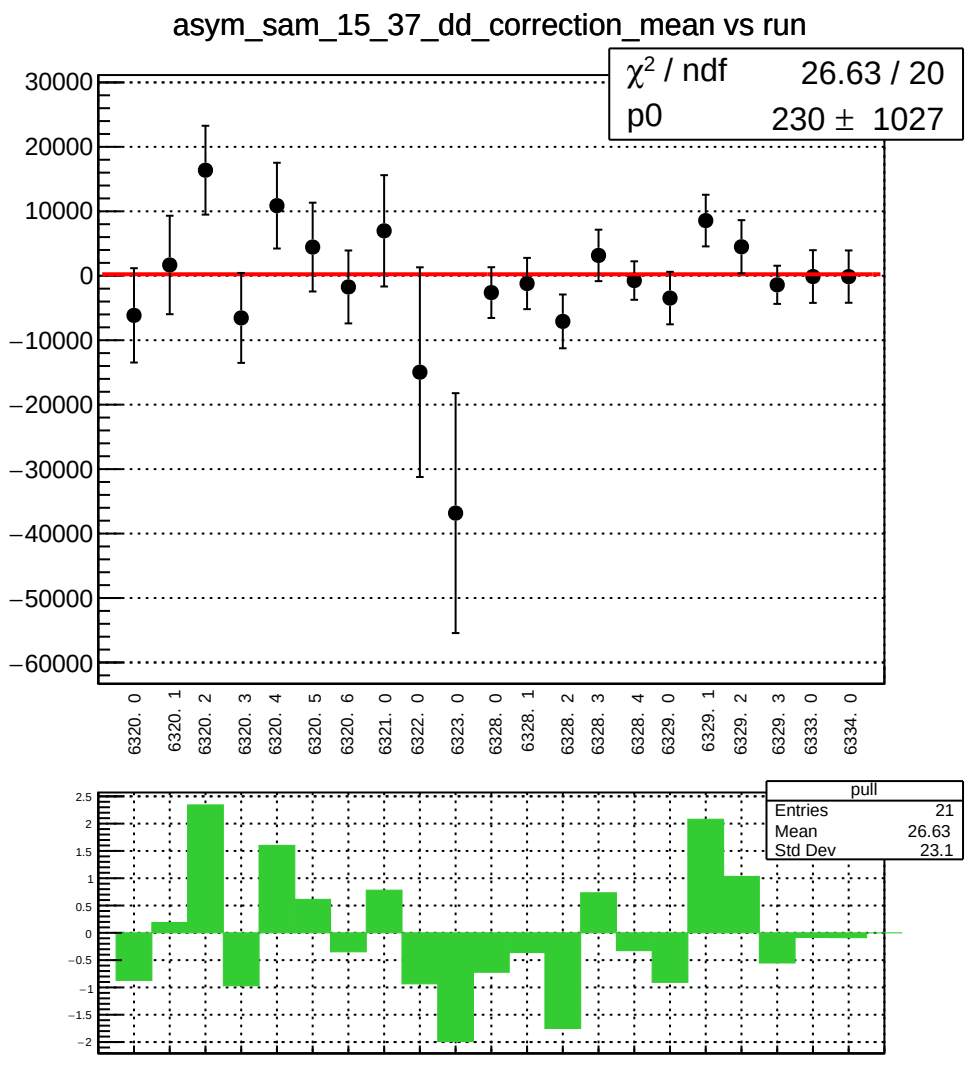

pull1D
Entries 21
Mean −0.05541
Std Dev 1.075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

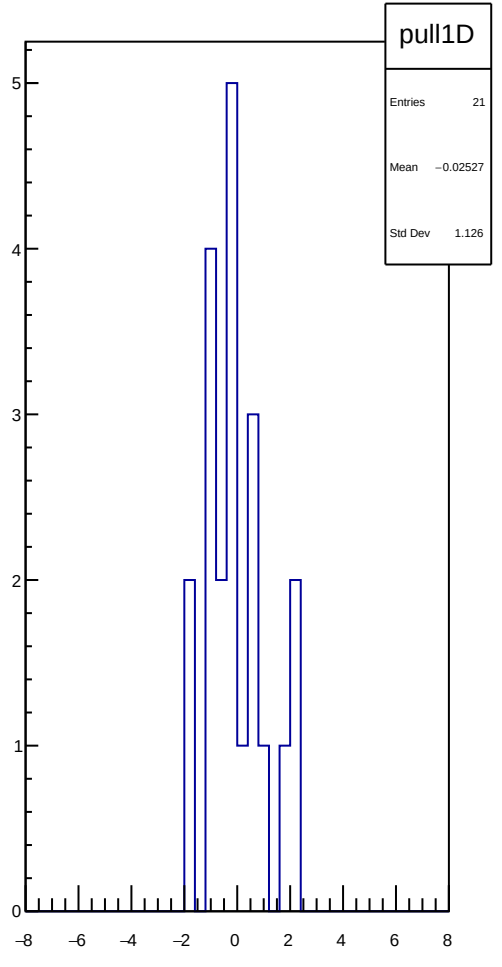

asym_sam_13_57_dd_rms vs run
χ² / ndf 8040 / 20
p0 433.8 ± 0.7042
800
750
700
650
600
550
500
450
400
350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

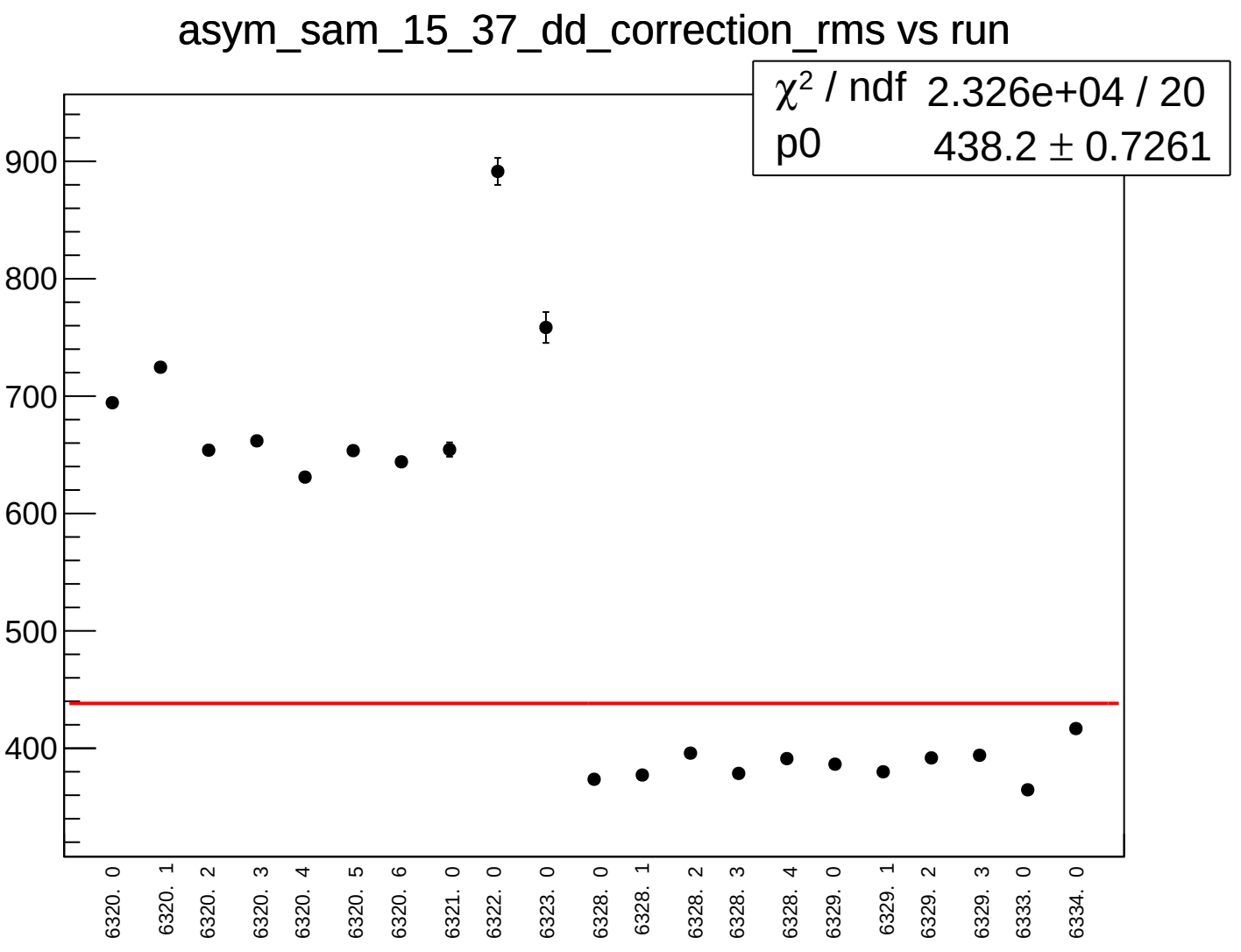

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 31.11 / 20
p0 14.19 ± 111.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.73
Std Dev 15.32
2
1
0
−1
−2

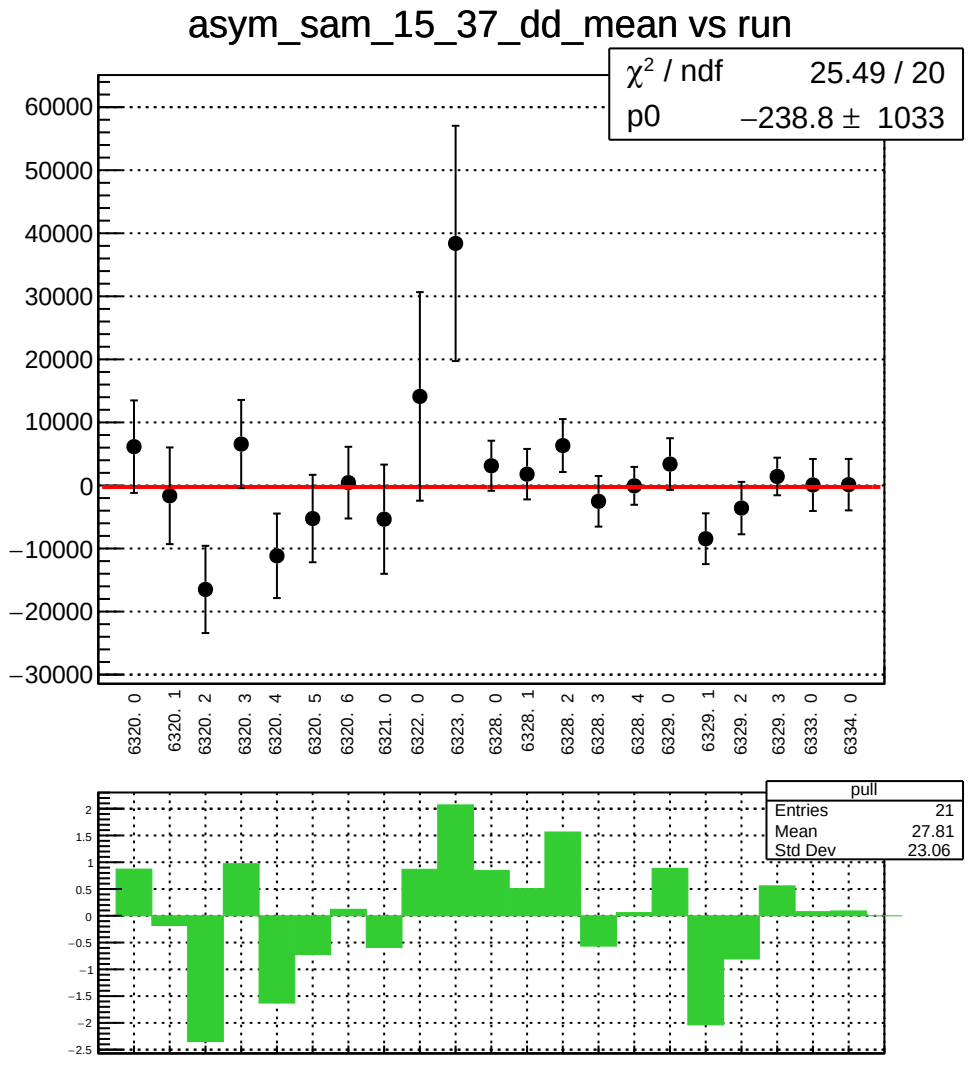

pull1D
Entries 21
Mean 0.04913
Std Dev 1.216
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

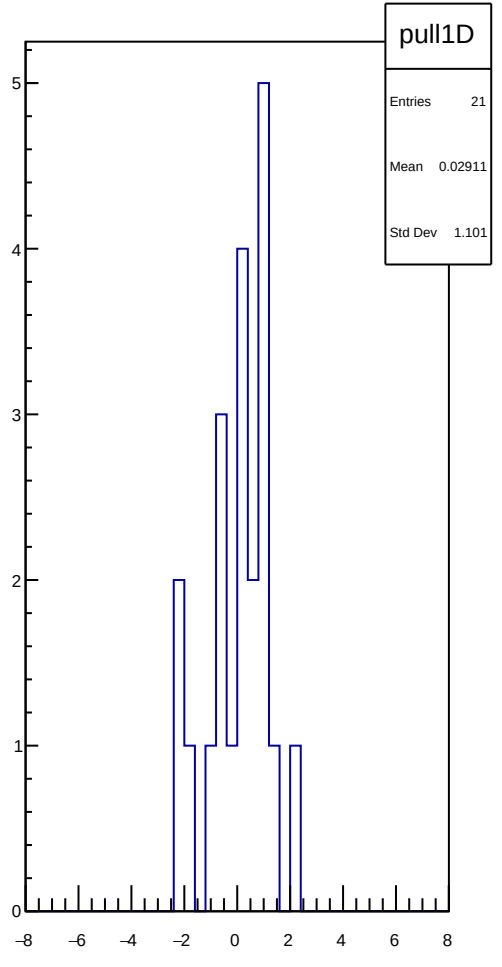

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.365e+04 / 20
p0 48.03 ± 0.07855
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

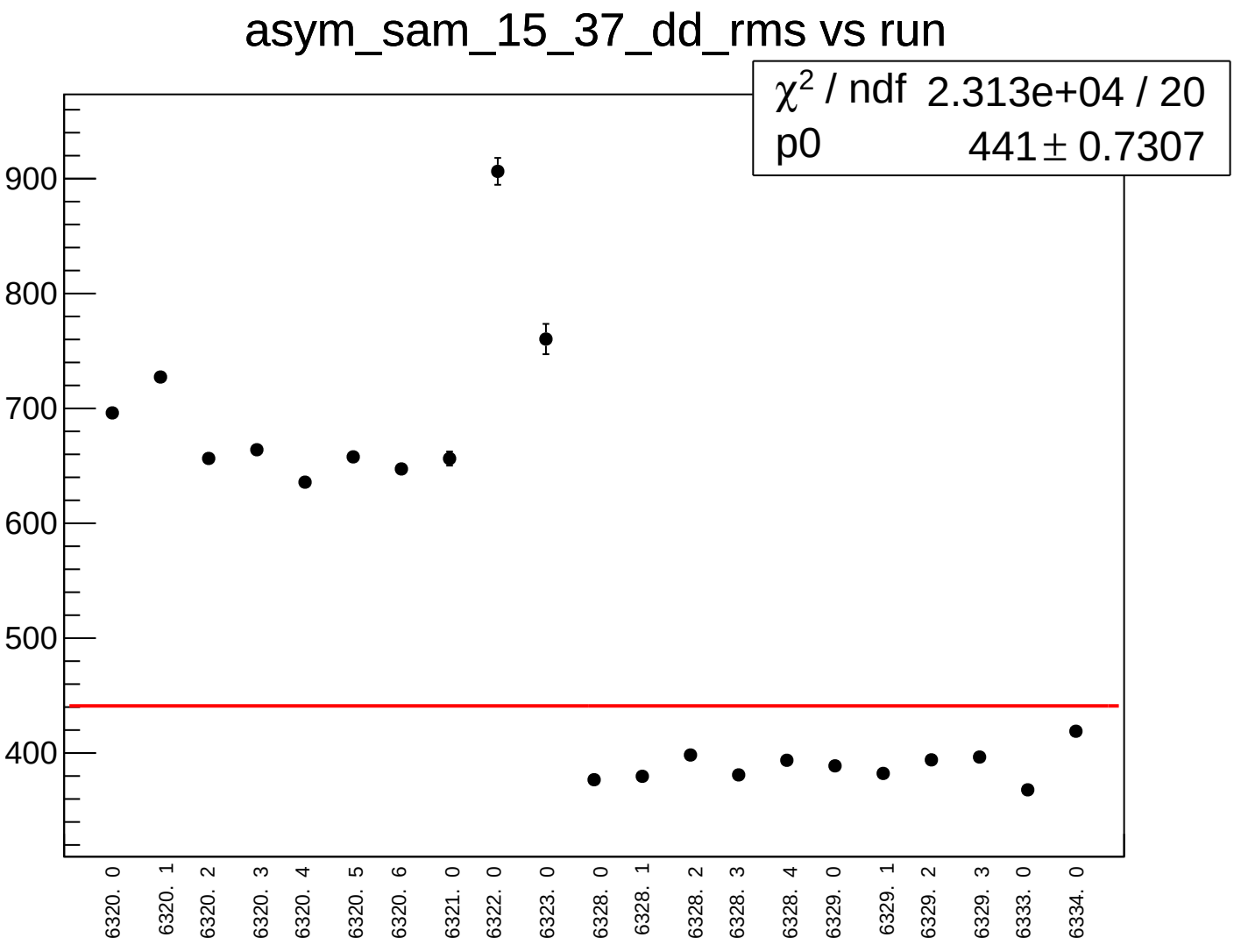

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 26.63 / 20
p0 230 ± 1027
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.63
Std Dev 23.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

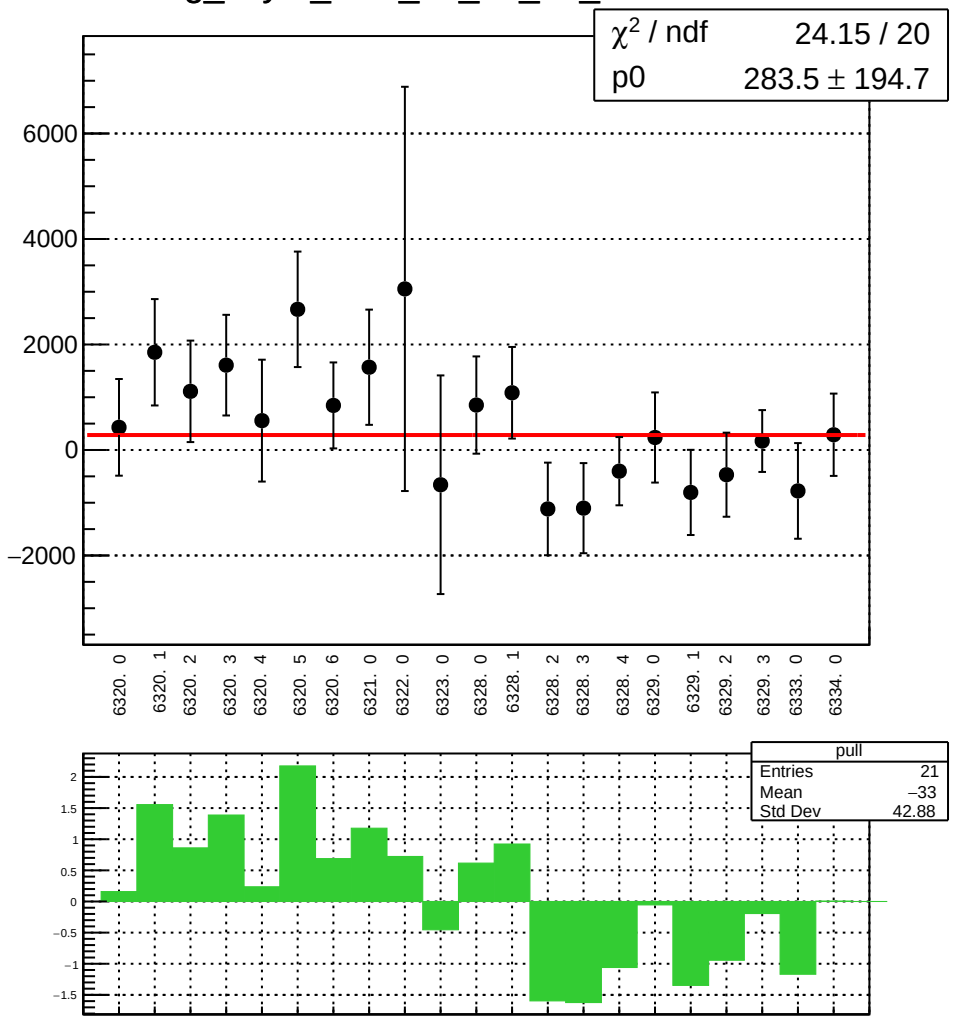

pull1D
Entries 21
Mean −0.02527
Std Dev 1.126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

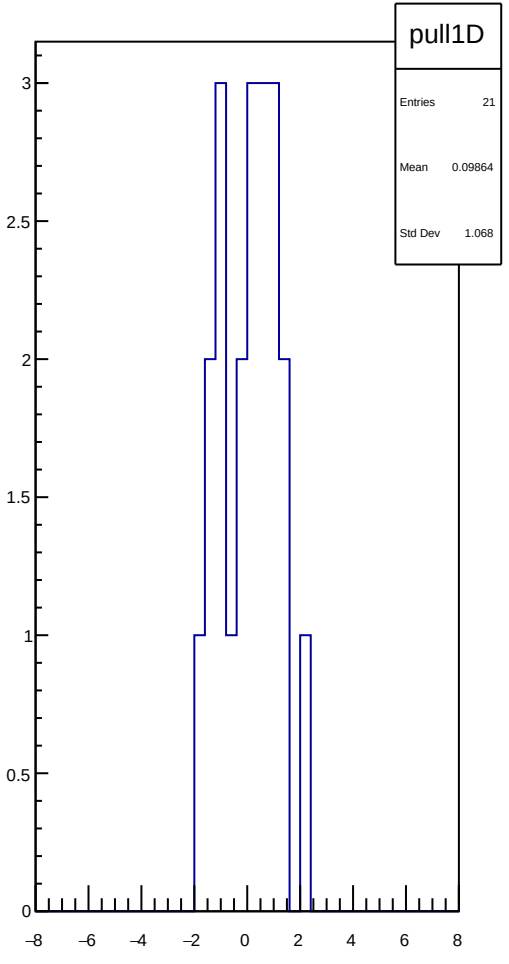

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.326e+04 / 20
p0 438.2 ± 0.7261
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

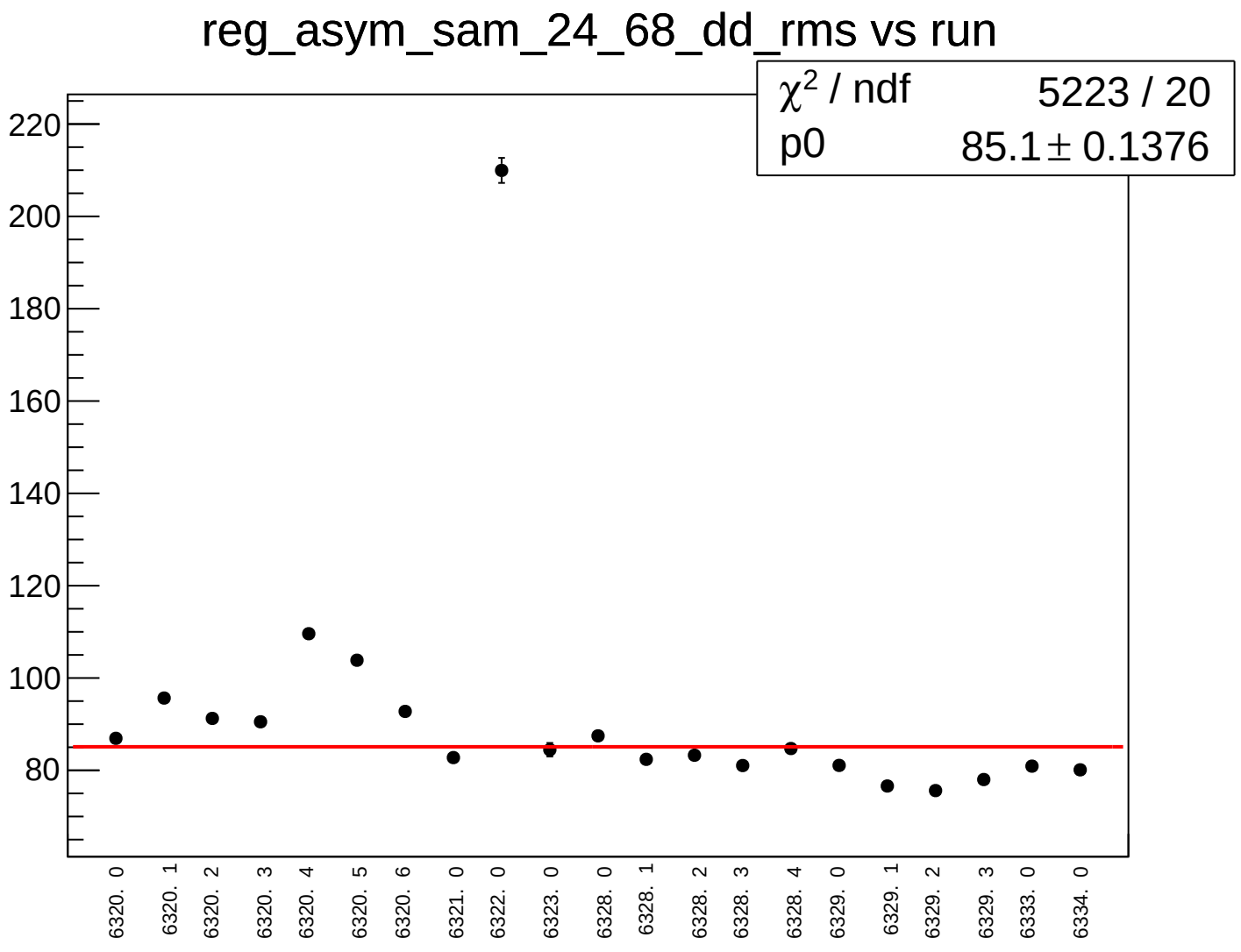

asym_sam_15_37_dd_mean vs run
χ² / ndf 25.49 / 20
p0 −238.8 ± 1033
60000
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 27.81
Std Dev 23.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

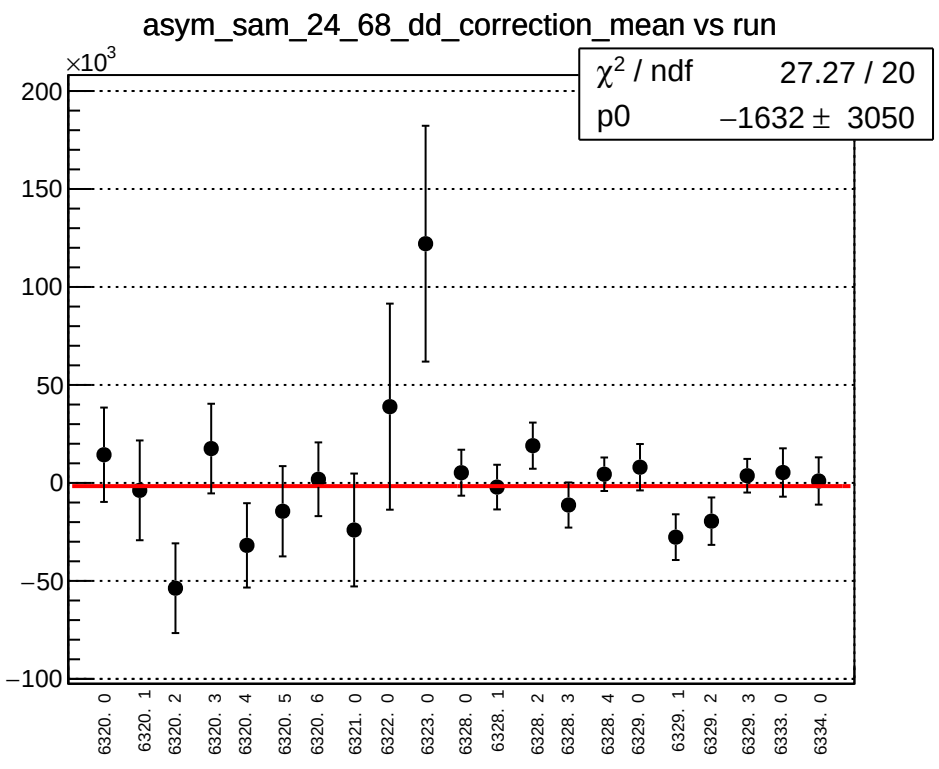

pull1D
Entries 21
Mean 0.02911
Std Dev 1.101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

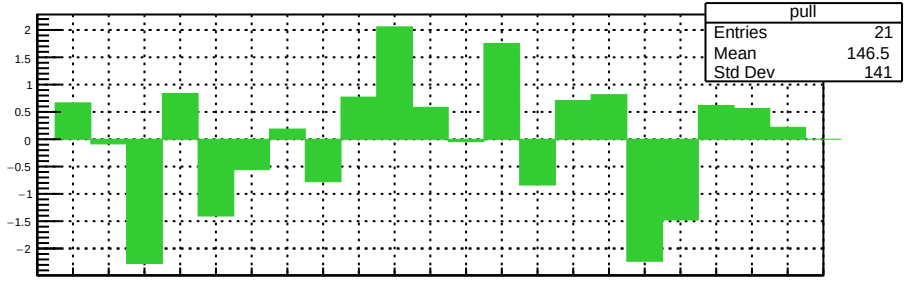

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.313e+04 / 20
p0 441 ± 0.7307
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

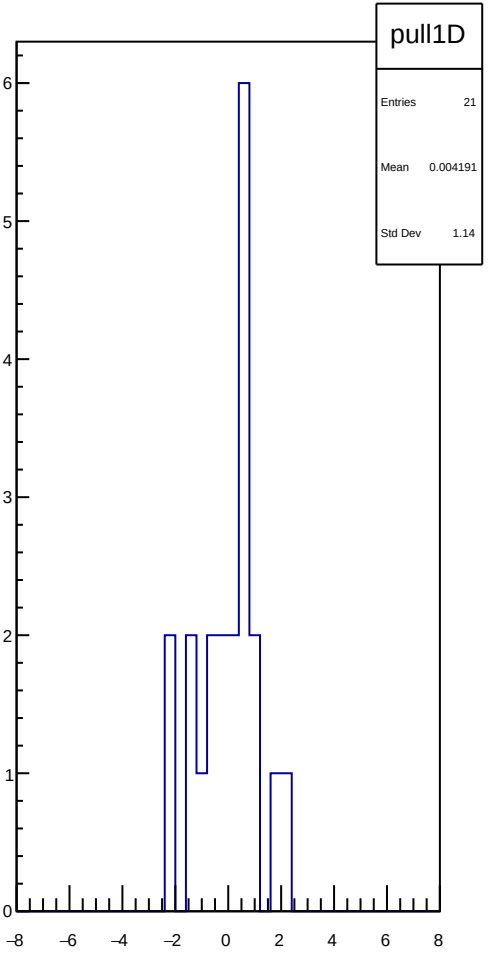

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 24.15 / 20
p0 283.5 ± 194.7
6000
4000
2000
0
−2000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −33
Std Dev 42.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

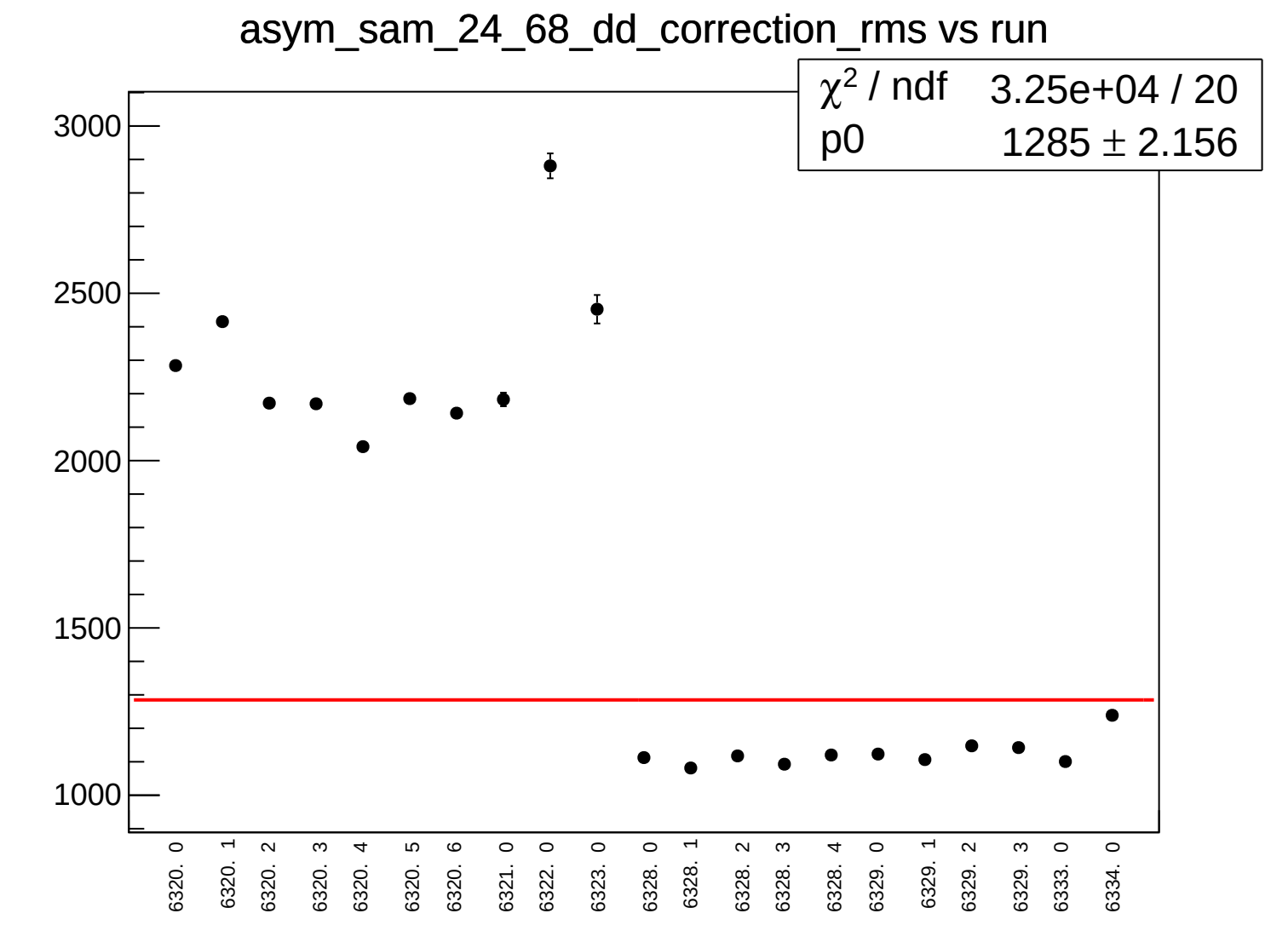

pull1D
Entries 21
Mean 0.09864
Std Dev 1.068
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

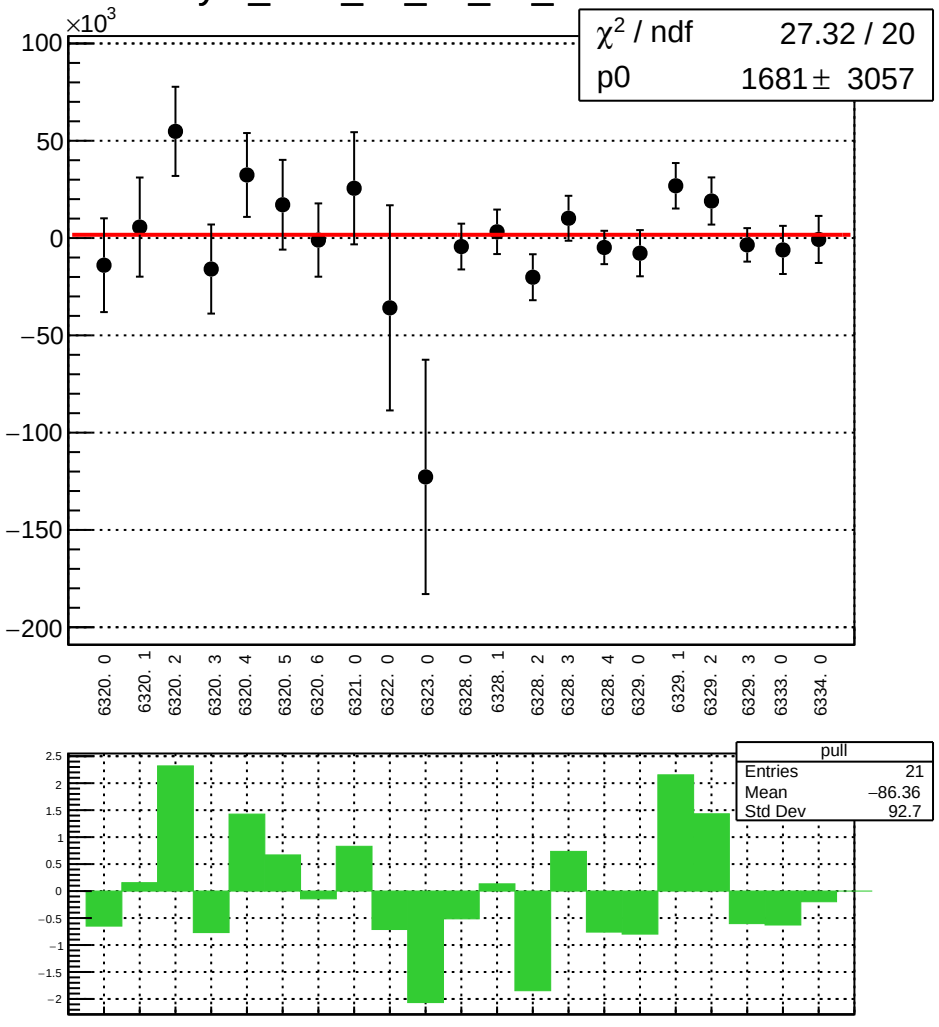

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5223 / 20
p0 85.1 ± 0.1376
220
200
180
160
140
120
100
80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

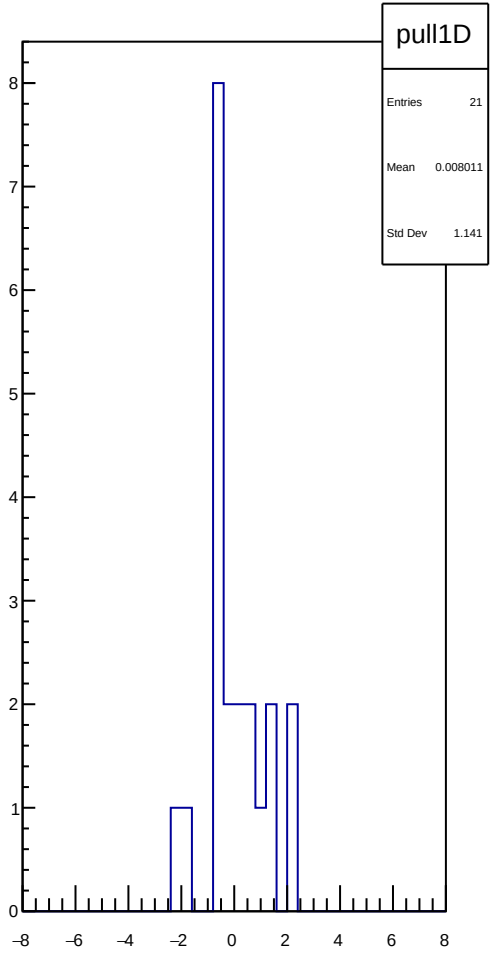

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 27.27 / 20
p0 −1632 ± 3050
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

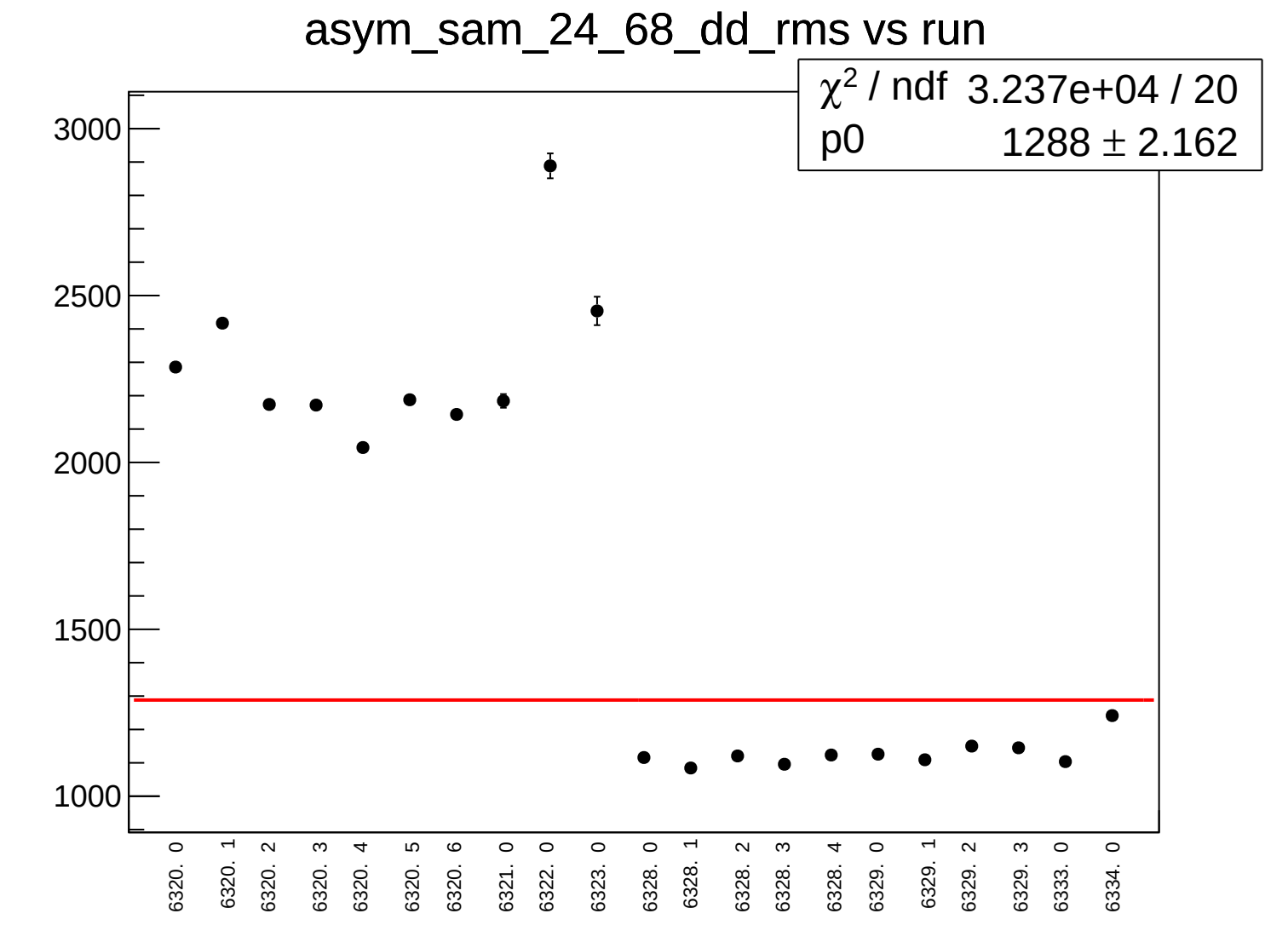

pull
Entries 21
Mean 146.5
Std Dev 141
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

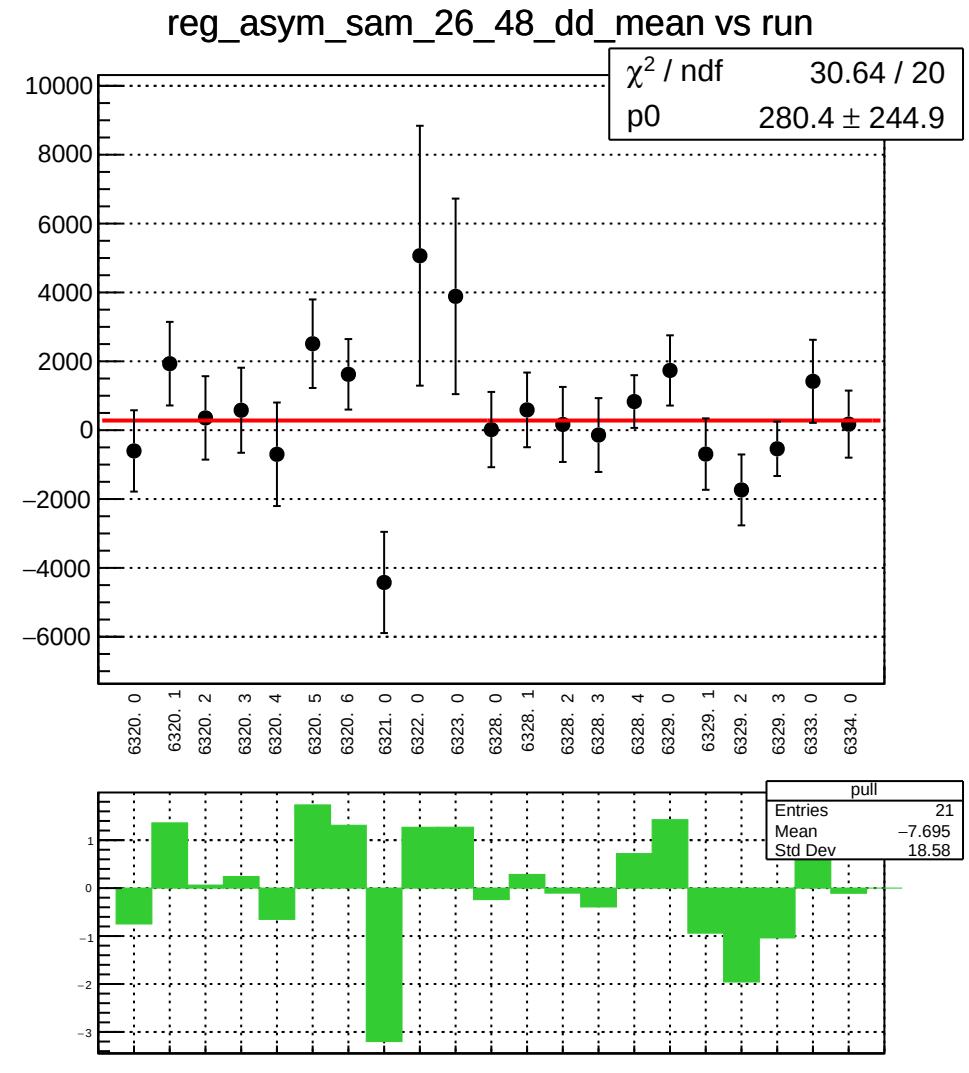

pull1D
Entries 21
Mean 0.004191
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

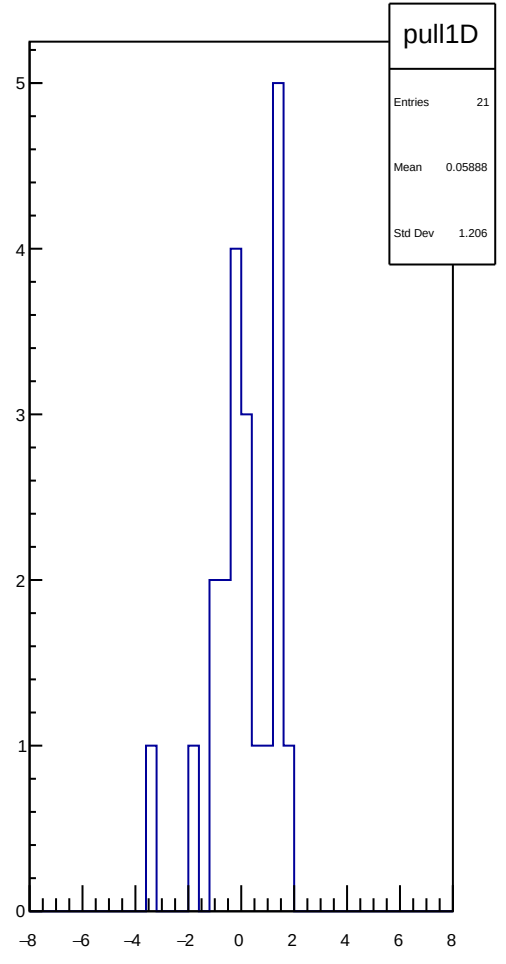

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3.25e+04 / 20
p0 1285 ± 2.156
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

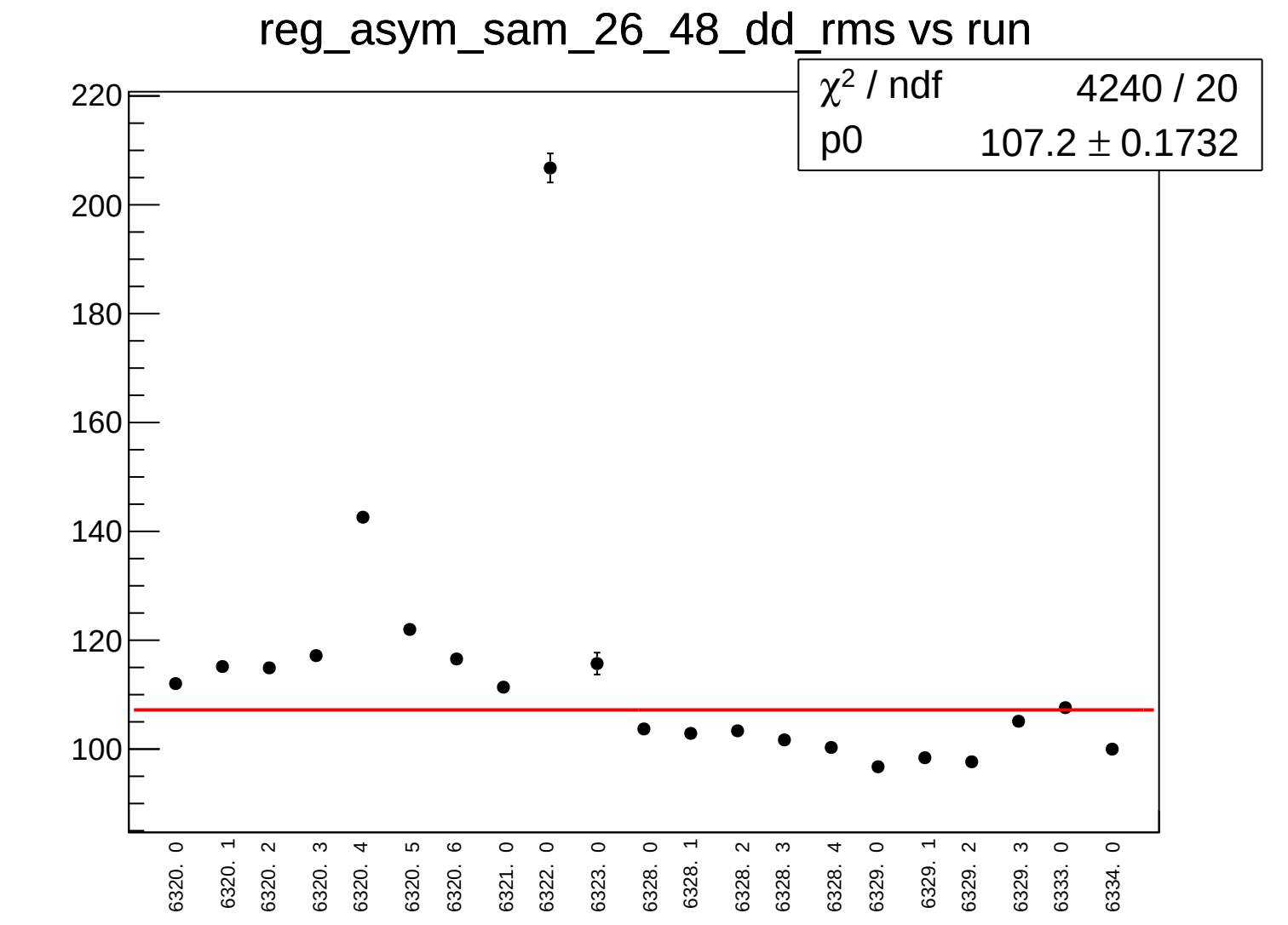

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 27.32 / 20
p0 1681 ± 3057
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −86.36
Std Dev 92.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

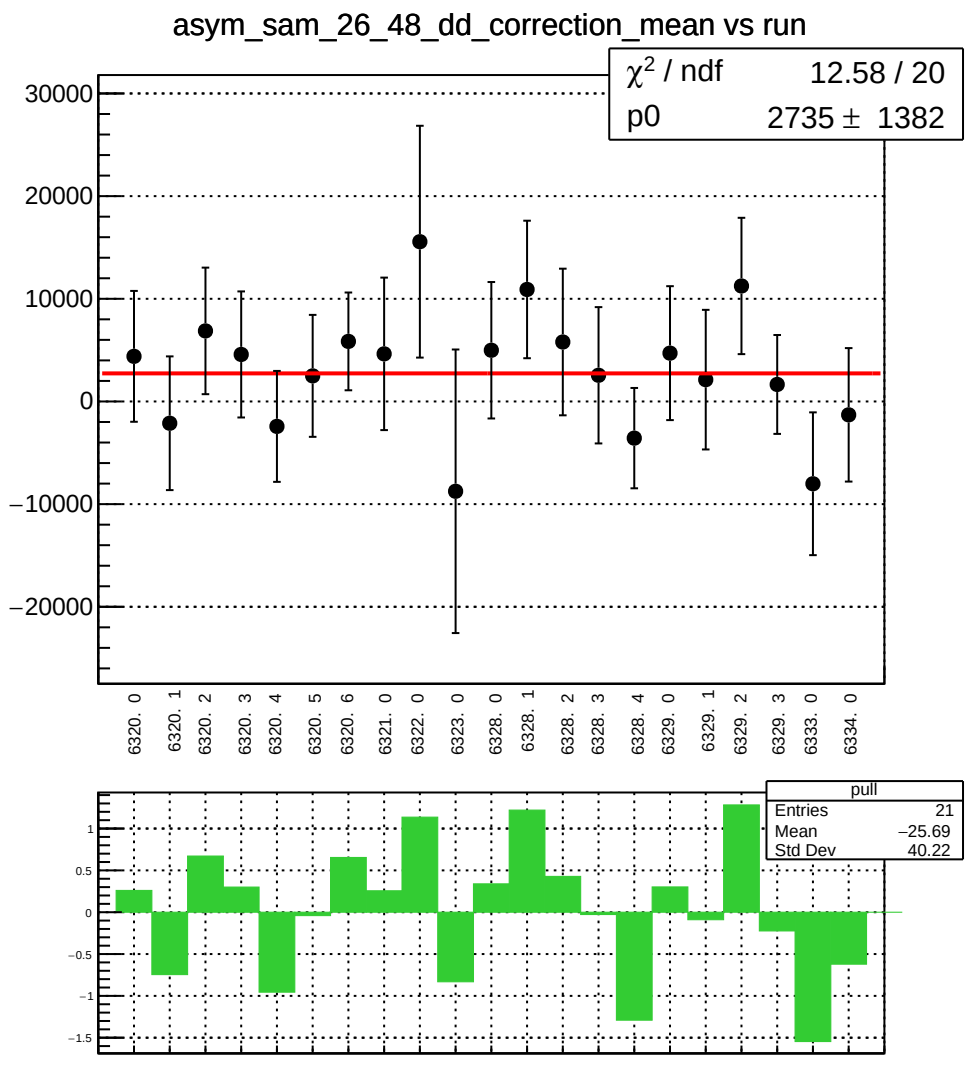

pull1D
Entries 21
Mean 0.008011
Std Dev 1.141
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

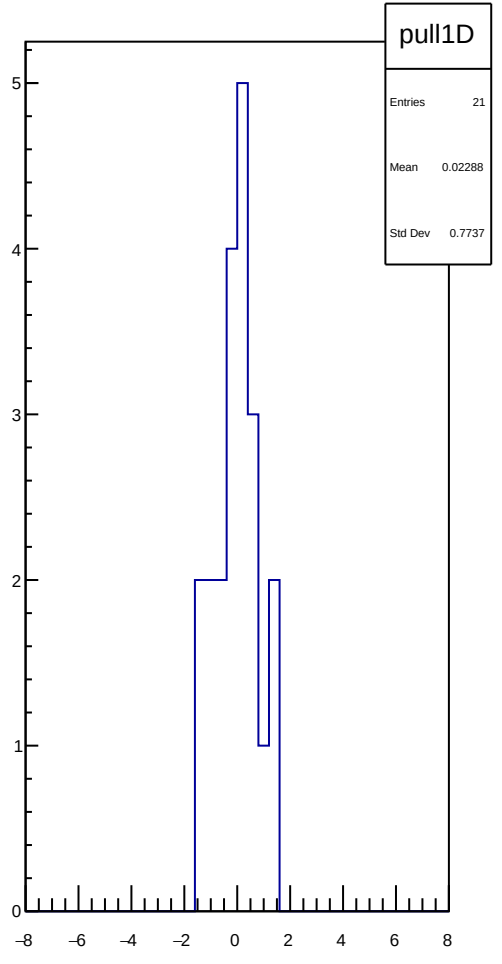

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.237e+04 / 20
p0 1288 ± 2.162
3000
2500
2000
1500
1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

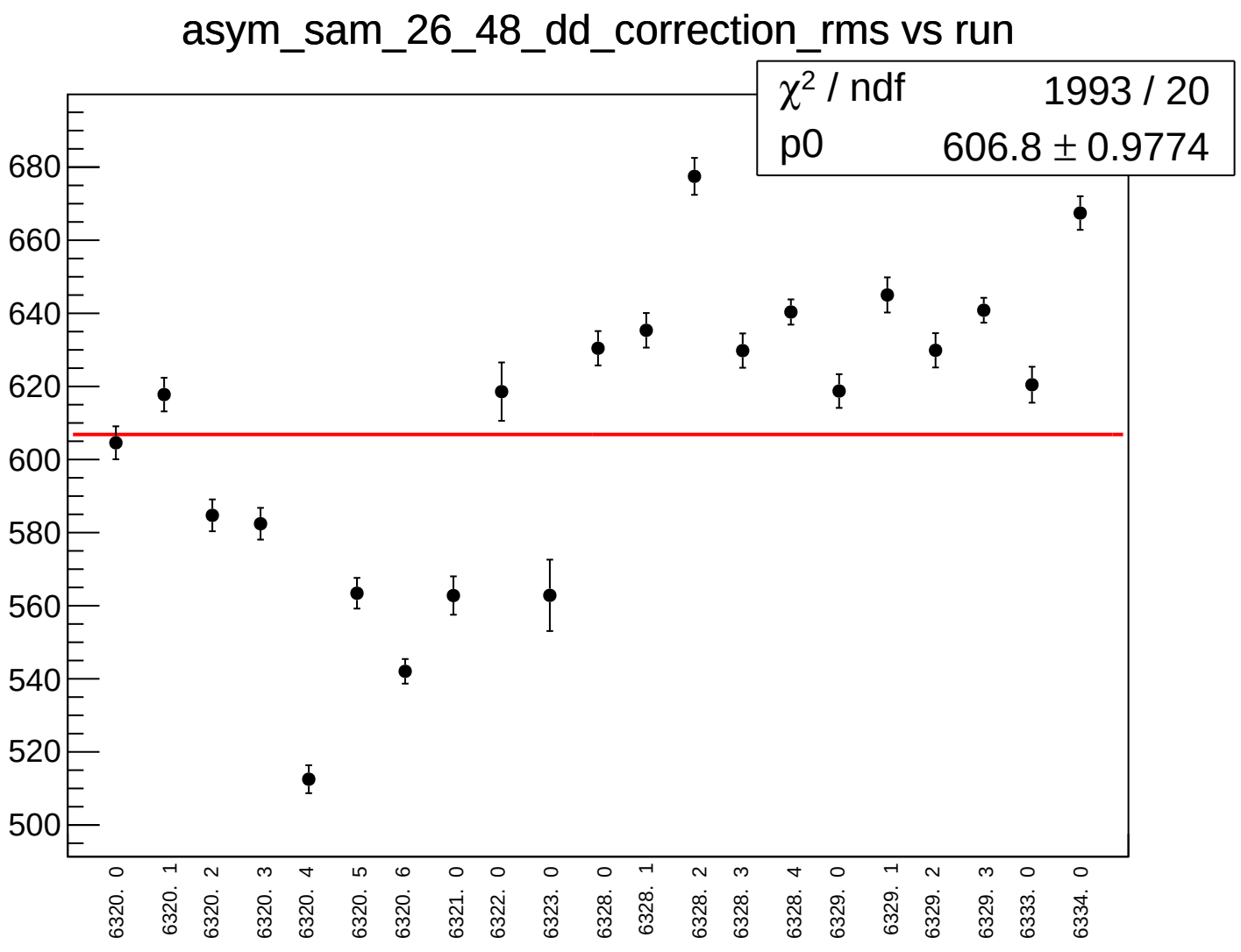

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 30.64 / 20
p0 280.4 ± 244.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.695
Std Dev 18.58
1
0
−1
−2
−3

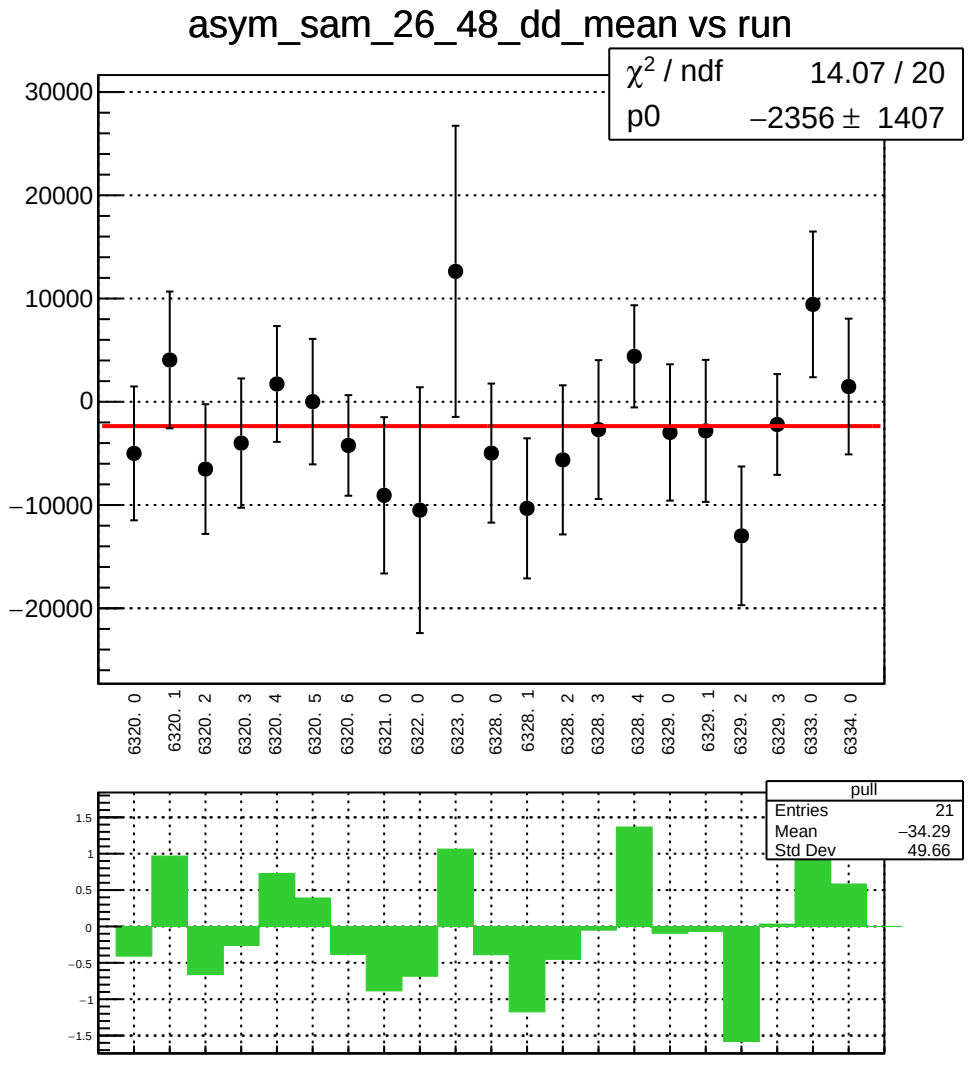

pull1D
Entries 21
Mean 0.05888
Std Dev 1.206
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

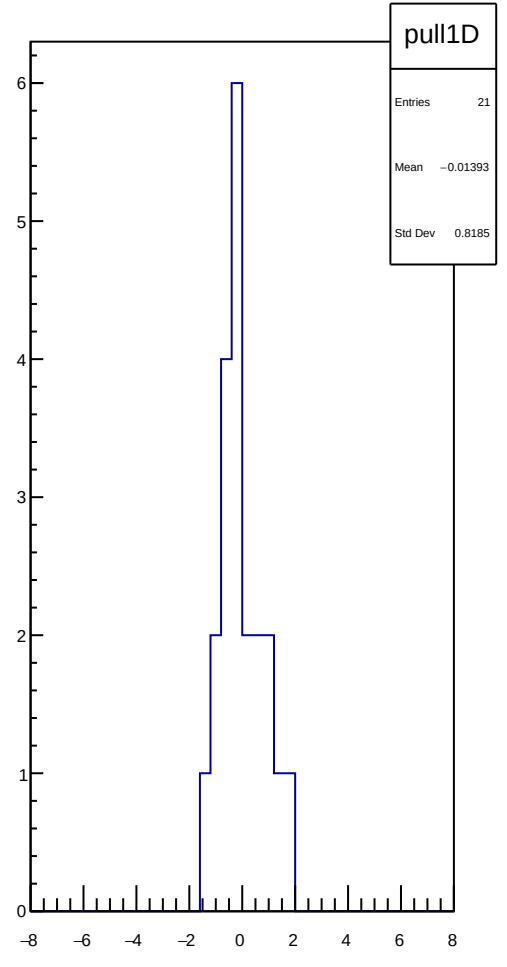

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4240 / 20
p0 107.2 ± 0.1732
220
200
180
160
140
120
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

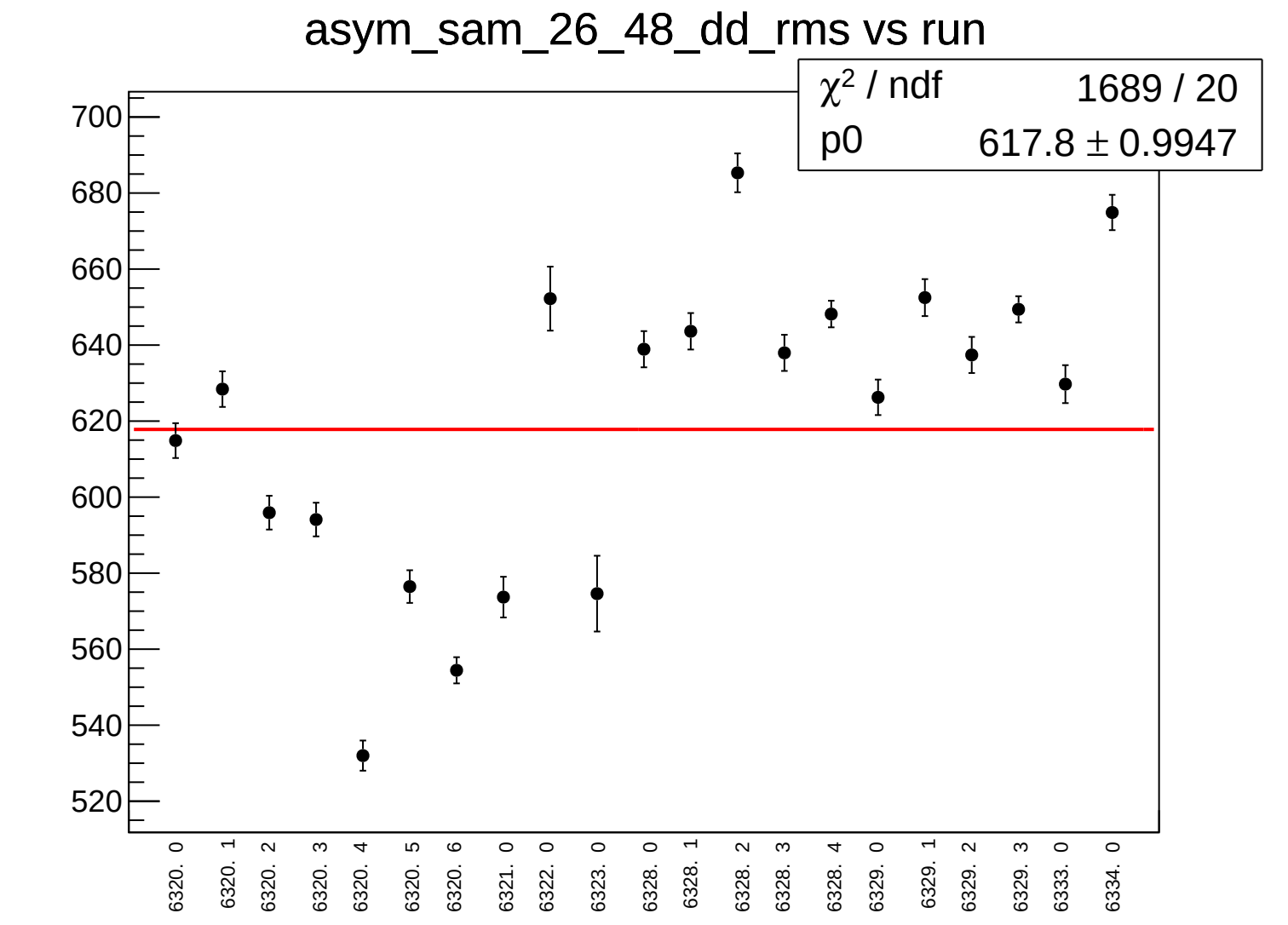

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 12.58 / 20
p0 2735 ± 1382
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.69
Std Dev 40.22
1
0.5
0
−0.5
−1
−1.5

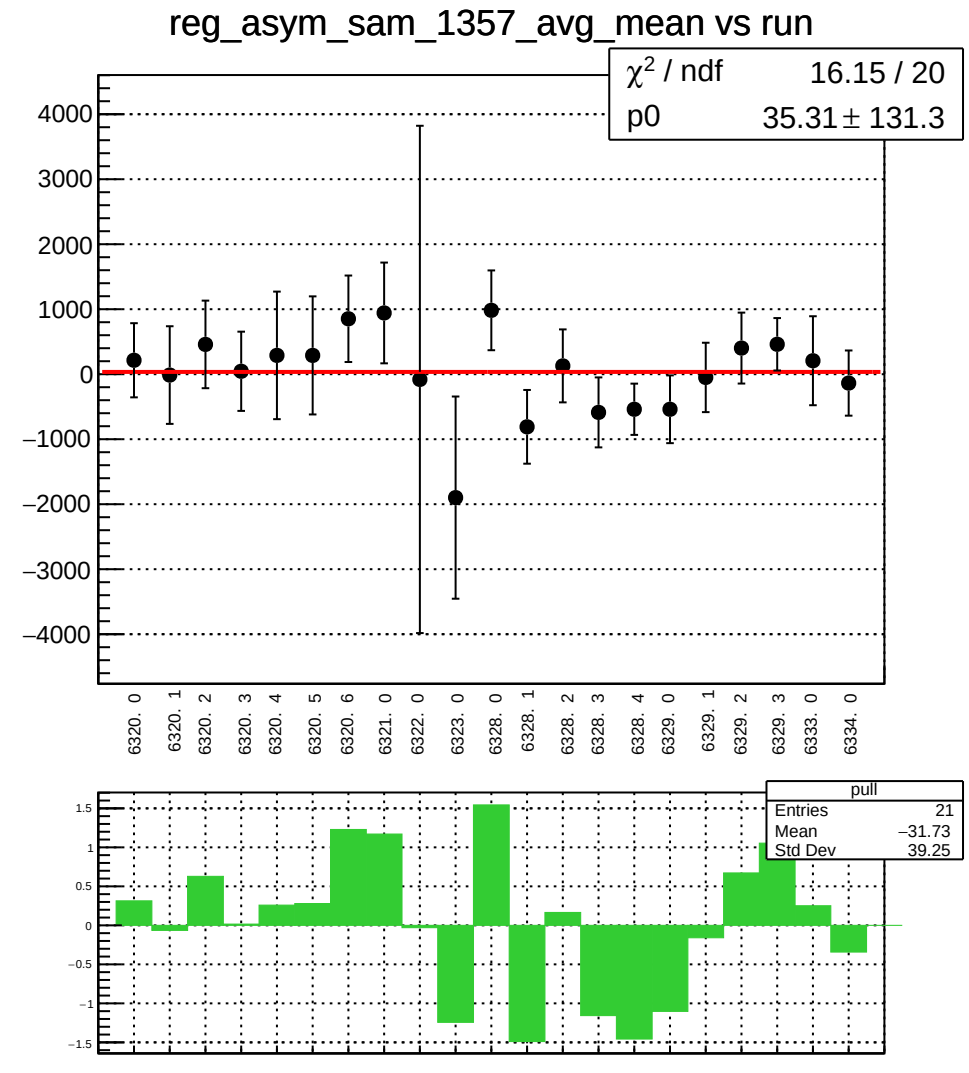

pull1D
Entries 21
Mean 0.02288
Std Dev 0.7737
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

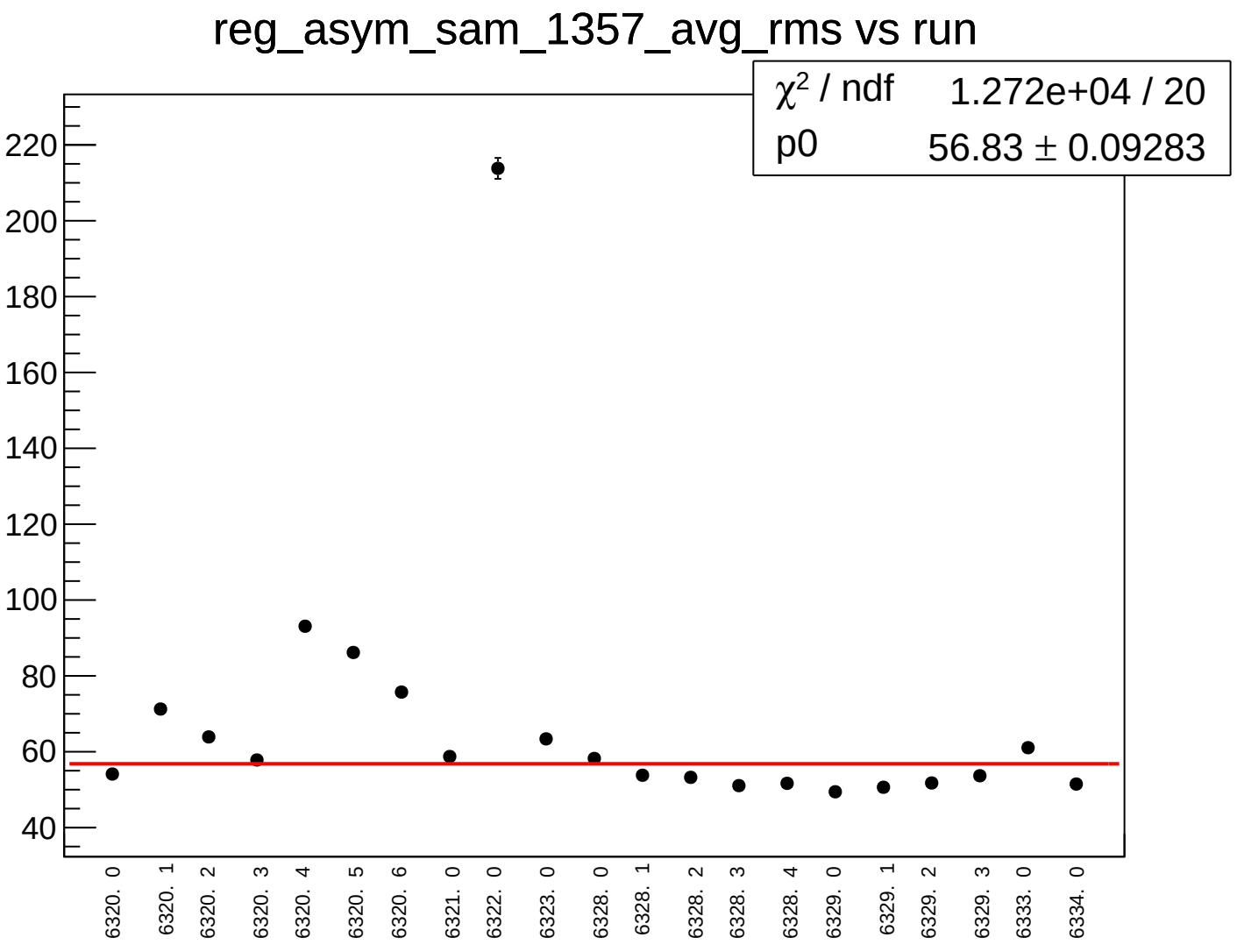

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1993 / 20
p0 606.8 ± 0.9774
680
660
640
620
600
580
560
540
520
500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

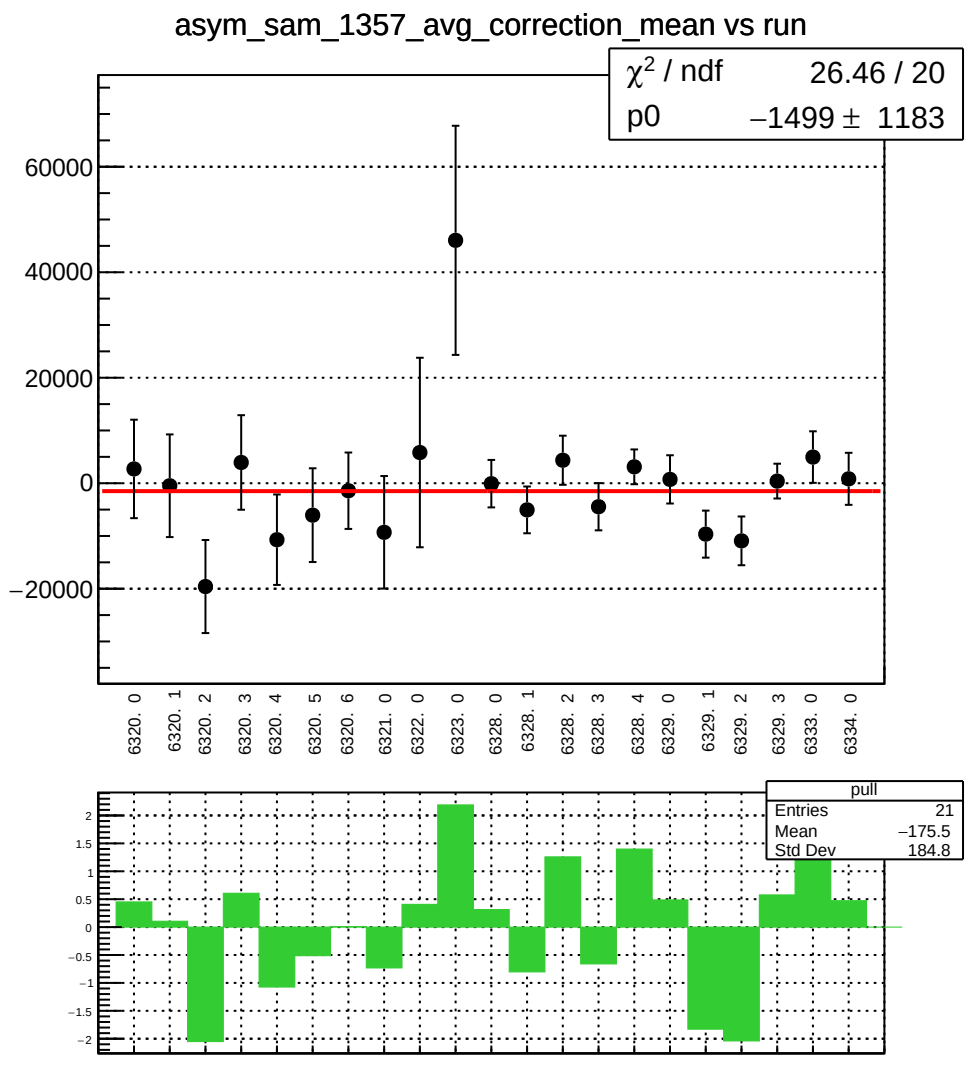

asym_sam_26_48_dd_mean vs run
χ² / ndf 14.07 / 20
p0 −2356 ± 1407
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −34.29
Std Dev 49.66
1.5
1
0.5
0
−0.5
−1
−1.5

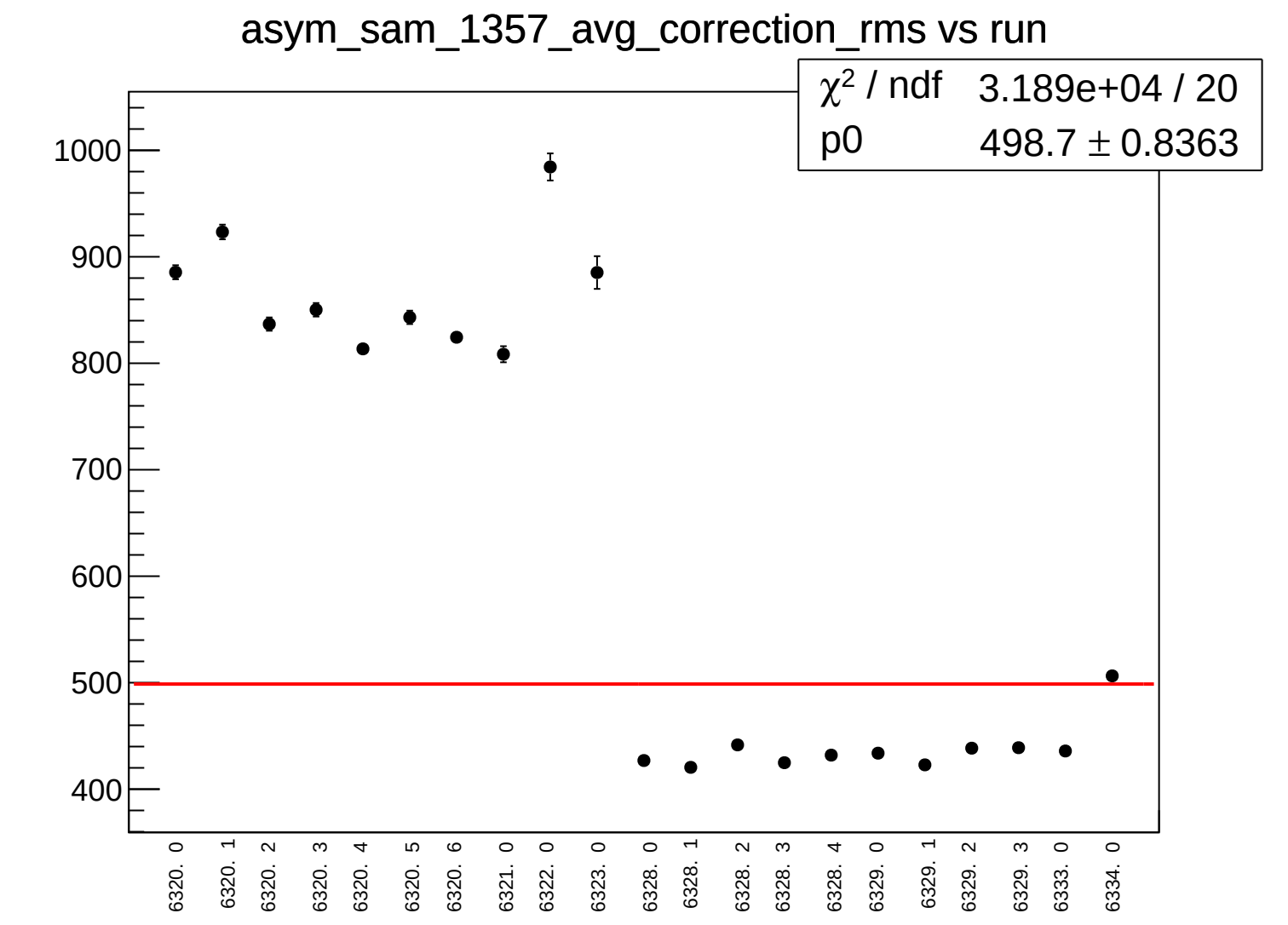

pull1D
Entries 21
Mean −0.01393
Std Dev 0.8185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

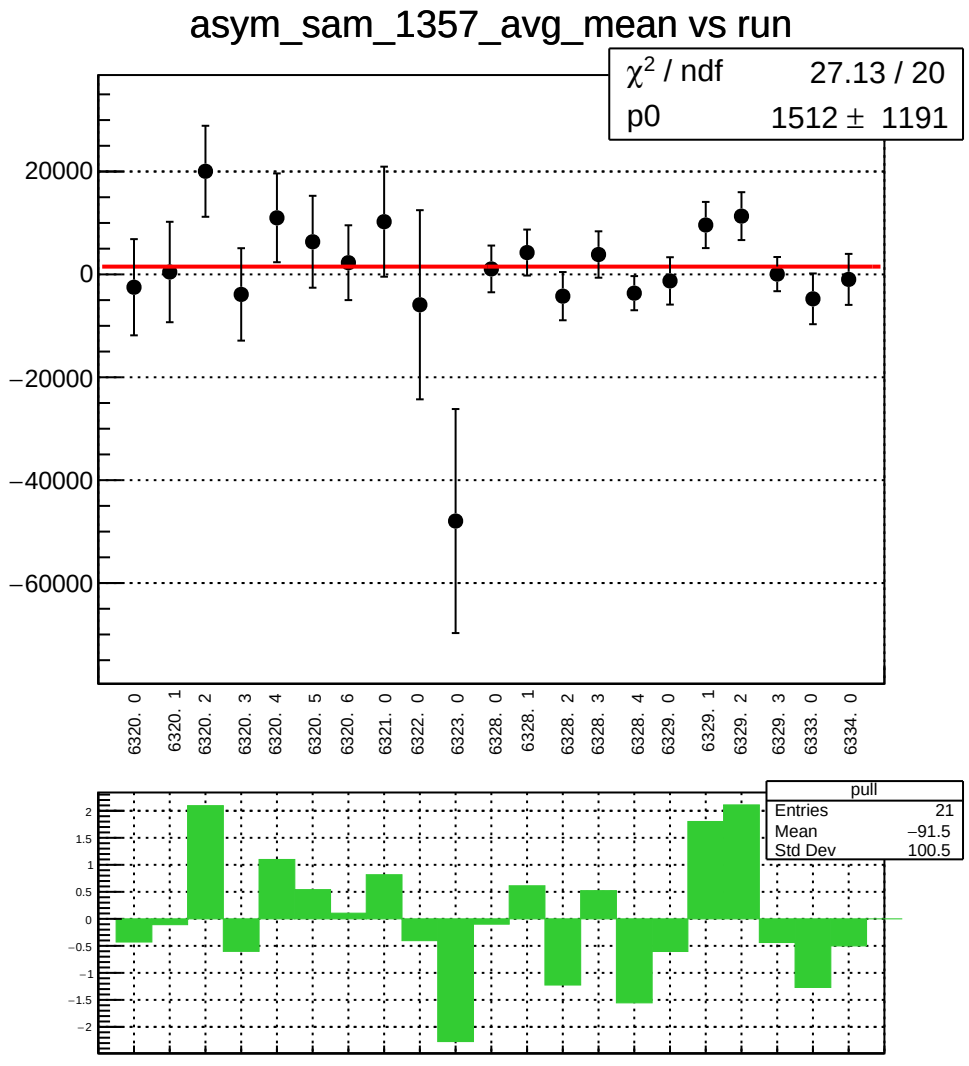

asym_sam_26_48_dd_rms vs run
χ² / ndf 1689 / 20
p0 617.8 ± 0.9947
700
680
660
640
620
600
580
560
540
520
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

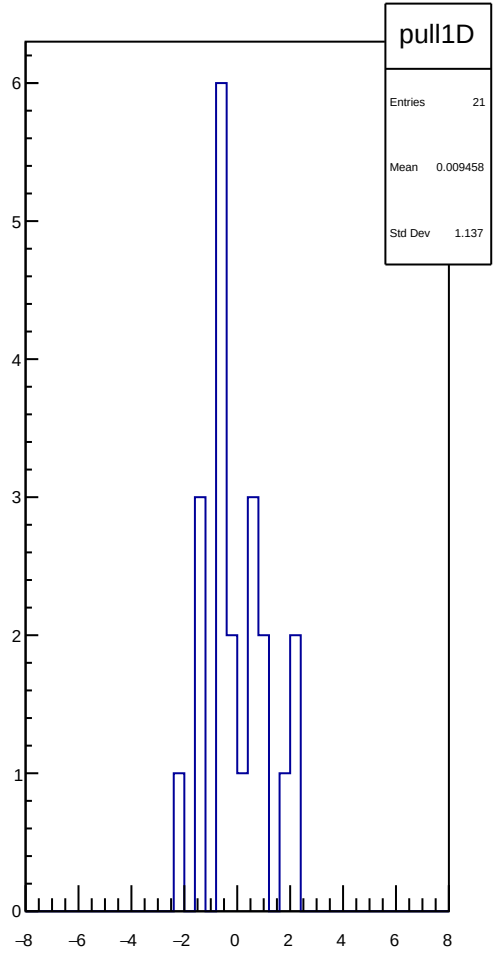

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 16.15 / 20
p0 35.31 ± 131.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.73
Std Dev 39.25
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02563
Std Dev 0.8765
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

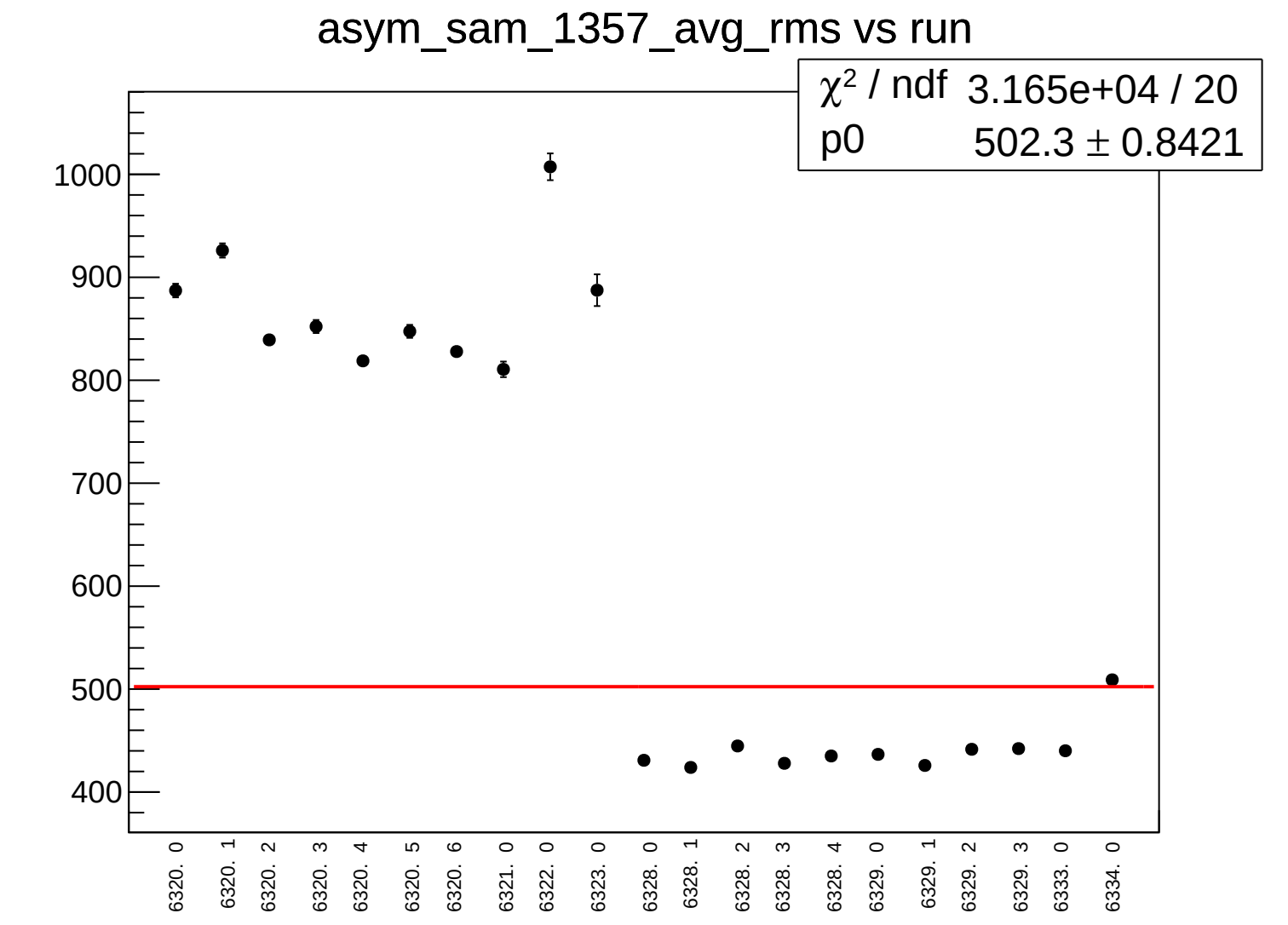

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.272e+04 / 20
p0 56.83 ± 0.09283
220
200
180
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

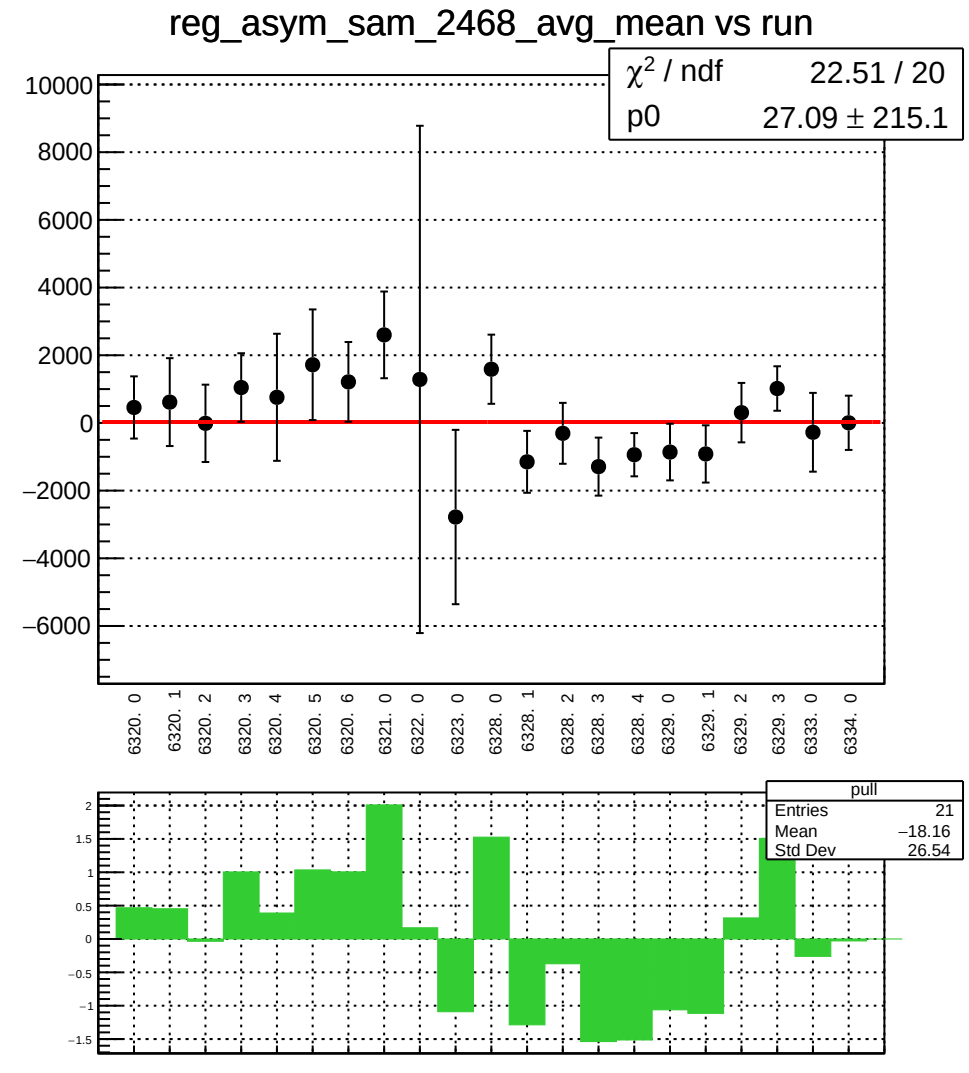

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 26.46 / 20
p0 −1499 ± 1183
60000
40000
20000
0
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −175.5
Std Dev 184.8
pull1D
Entries 21
Mean −0.004764
Std Dev 1.122

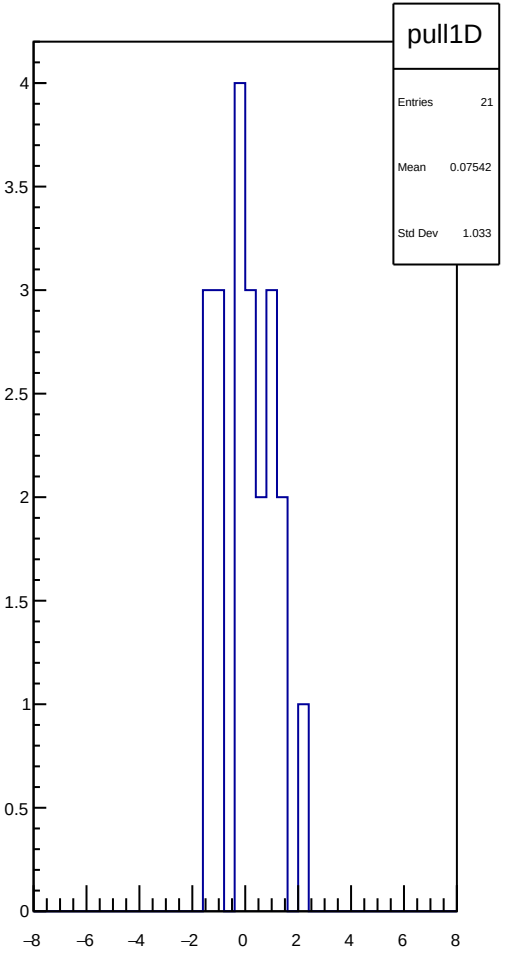

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 3.189e+04 / 20
p0 498.7 ± 0.8363
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

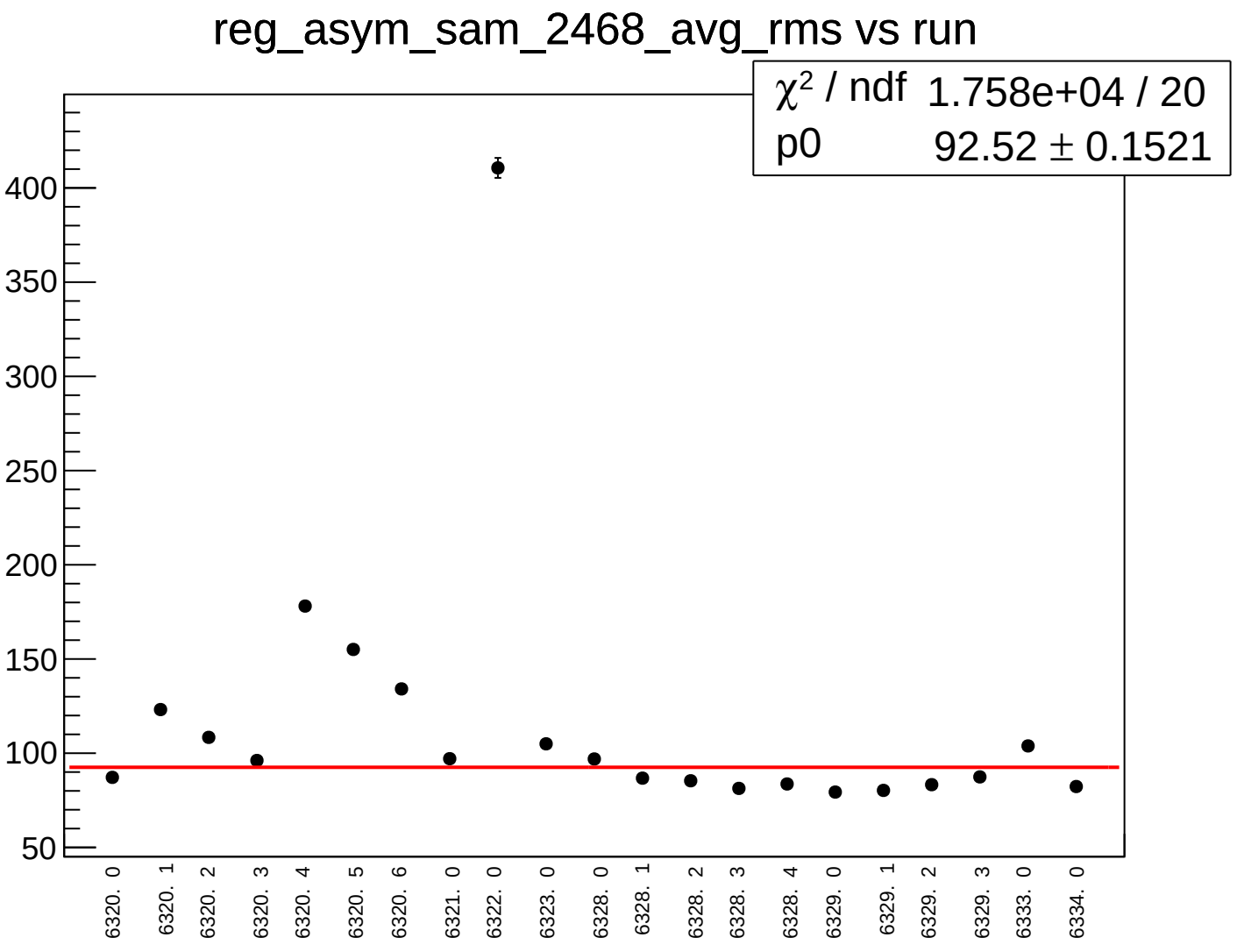

asym_sam_1357_avg_mean vs run
χ² / ndf 27.13 / 20
p0 1512 ± 1191
20000
0
−20000
−40000
−60000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −91.5
Std Dev 100.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

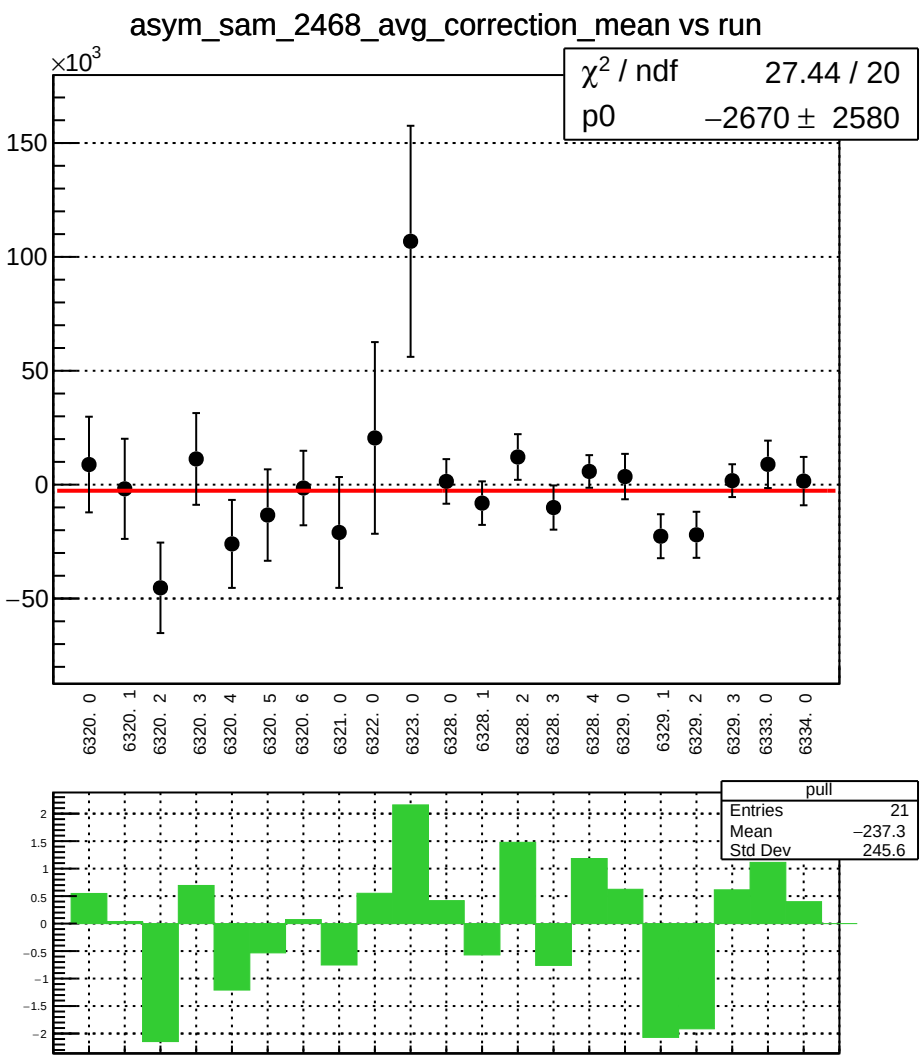

pull1D
Entries 21
Mean 0.009458
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

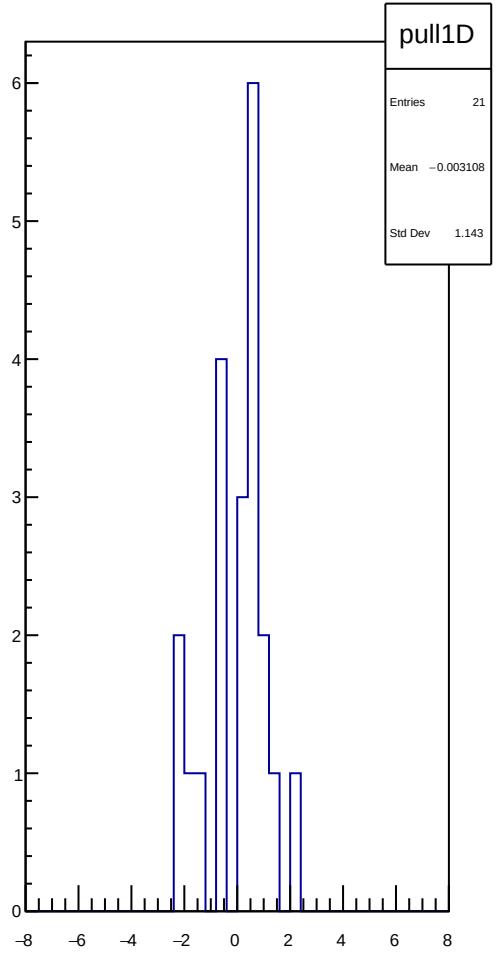

asym_sam_1357_avg_rms vs run
χ² / ndf 3.165e+04 / 20
p0 502.3 ± 0.8421
1000
900
800
700
600
500
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

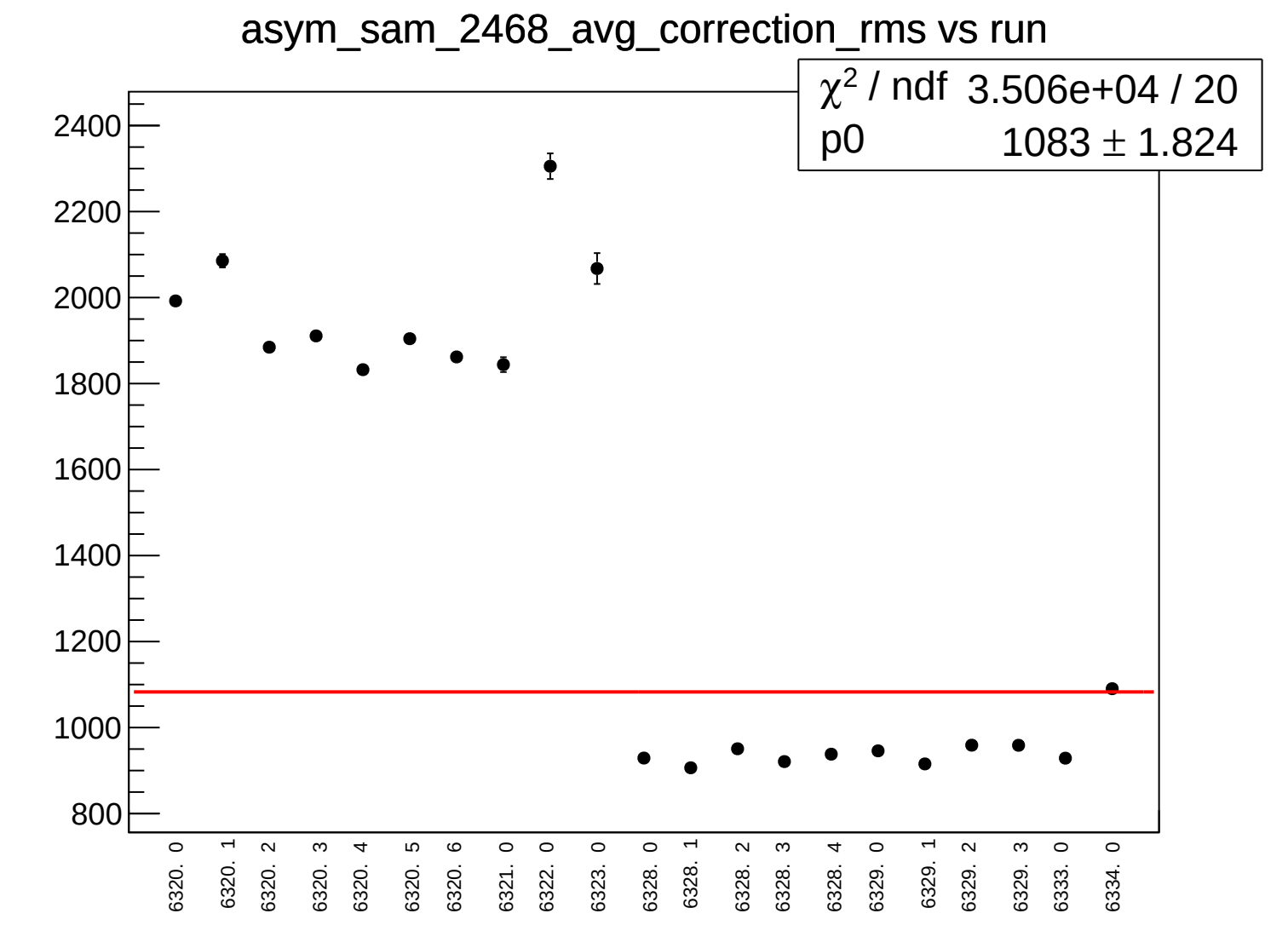

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 22.51 / 20
p0 27.09 ± 215.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.16
Std Dev 26.54
2
1.5
1
0.5
0
−0.5
−1
−1.5

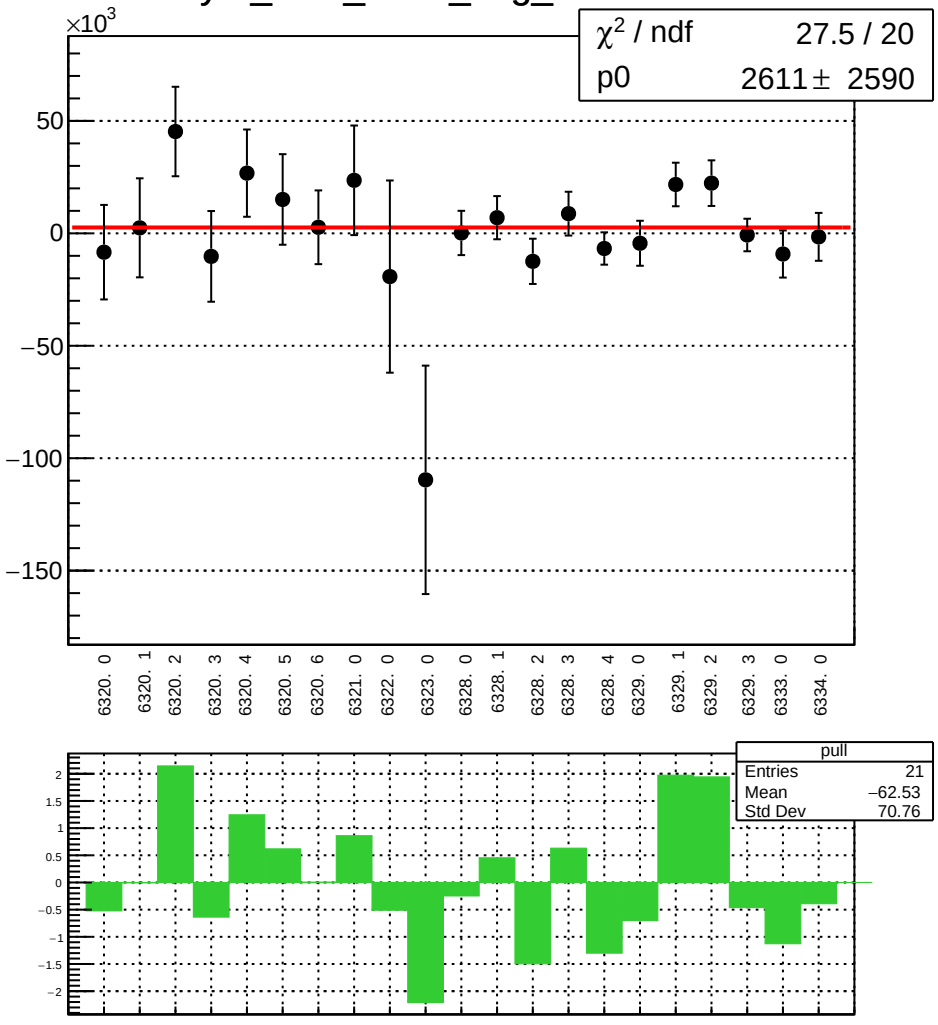

pull1D
Entries 21
Mean 0.07542
Std Dev 1.033
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

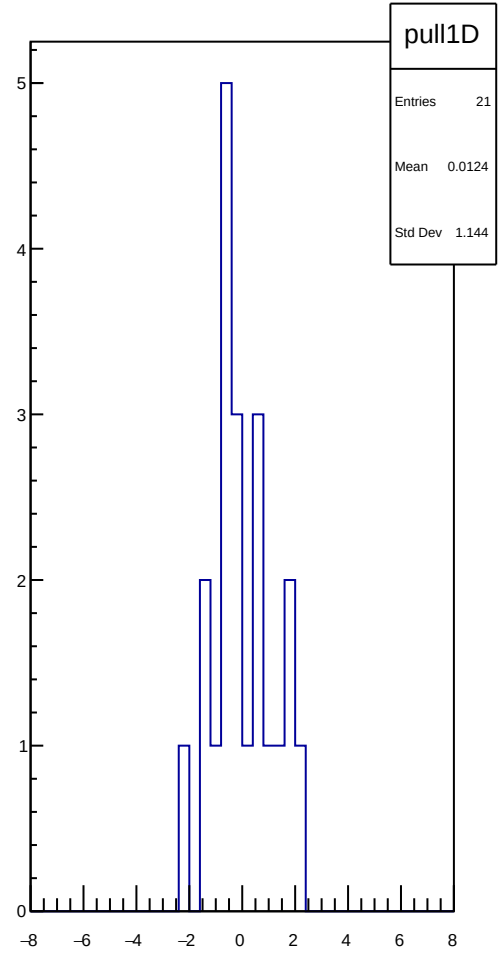

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.758e+04 / 20
p0 92.52 ± 0.1521
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

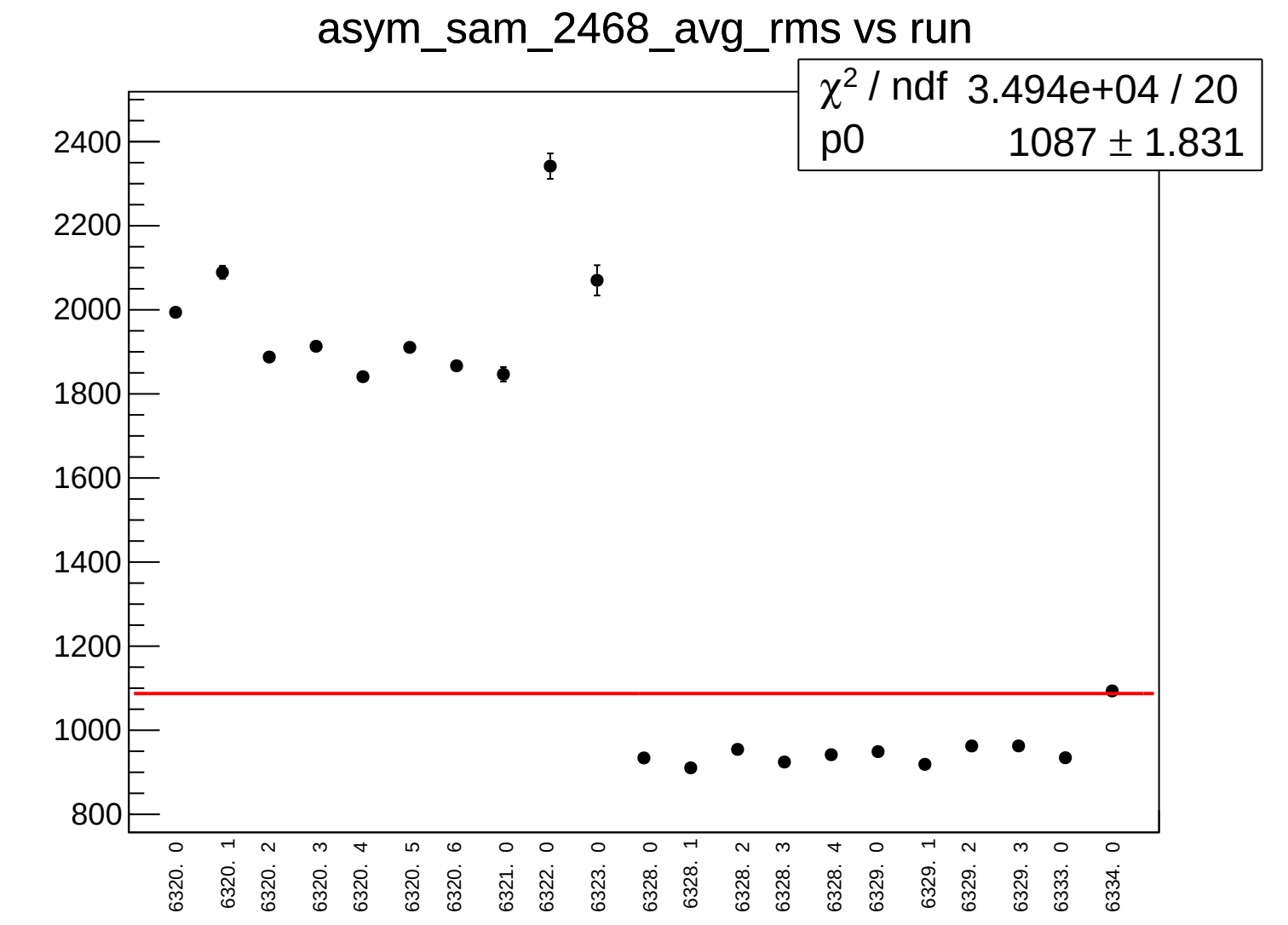

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 27.44 / 20
p0 −2670 ± 2580
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −237.3
Std Dev 245.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

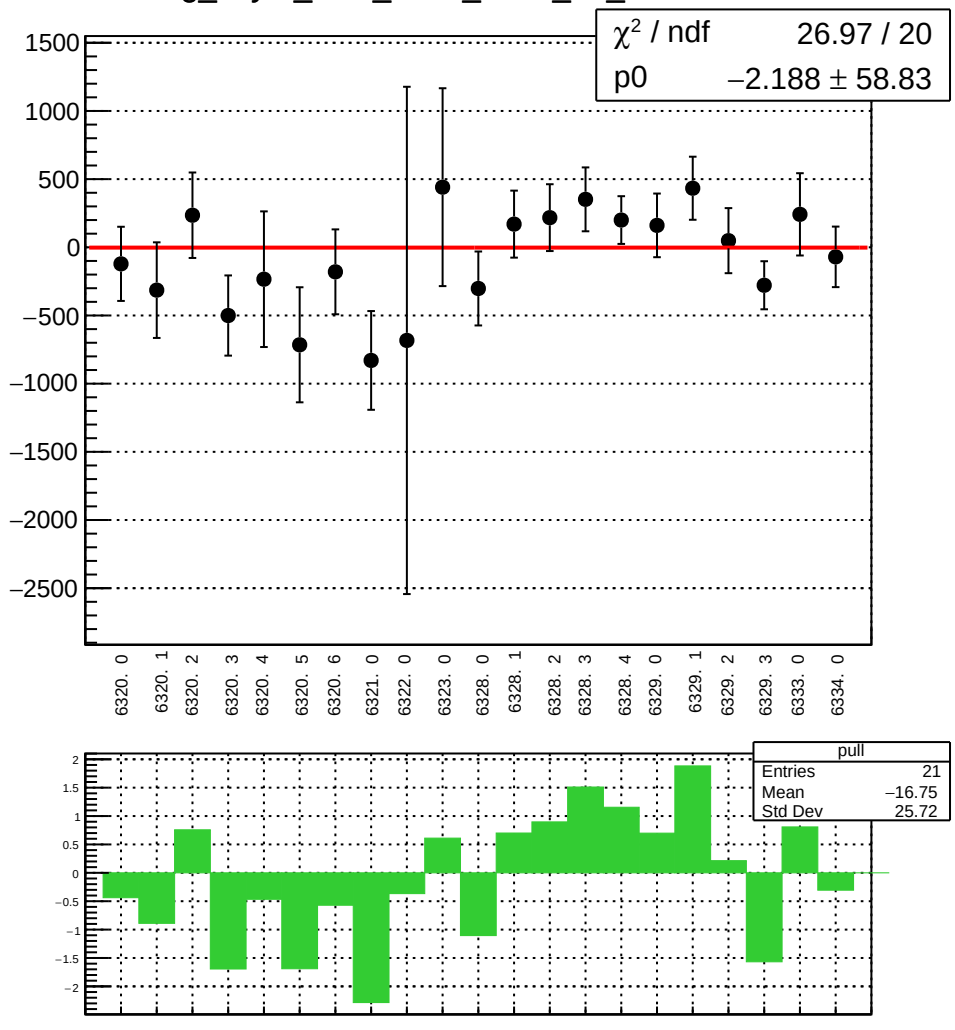

pull1D
Entries 21
Mean −0.003108
Std Dev 1.143
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

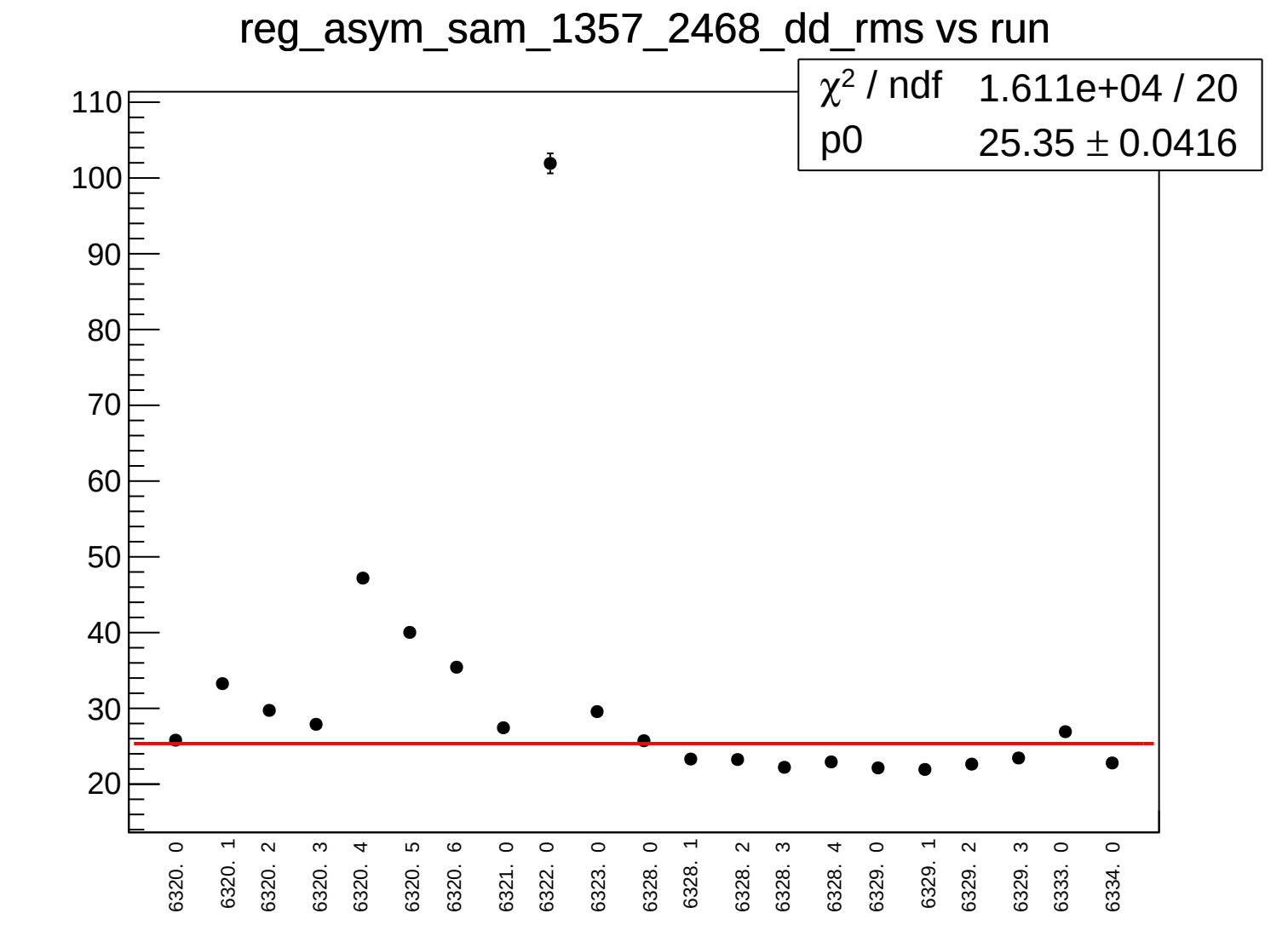

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 3.506e+04 / 20
p0 1083 ± 1.824
2400
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

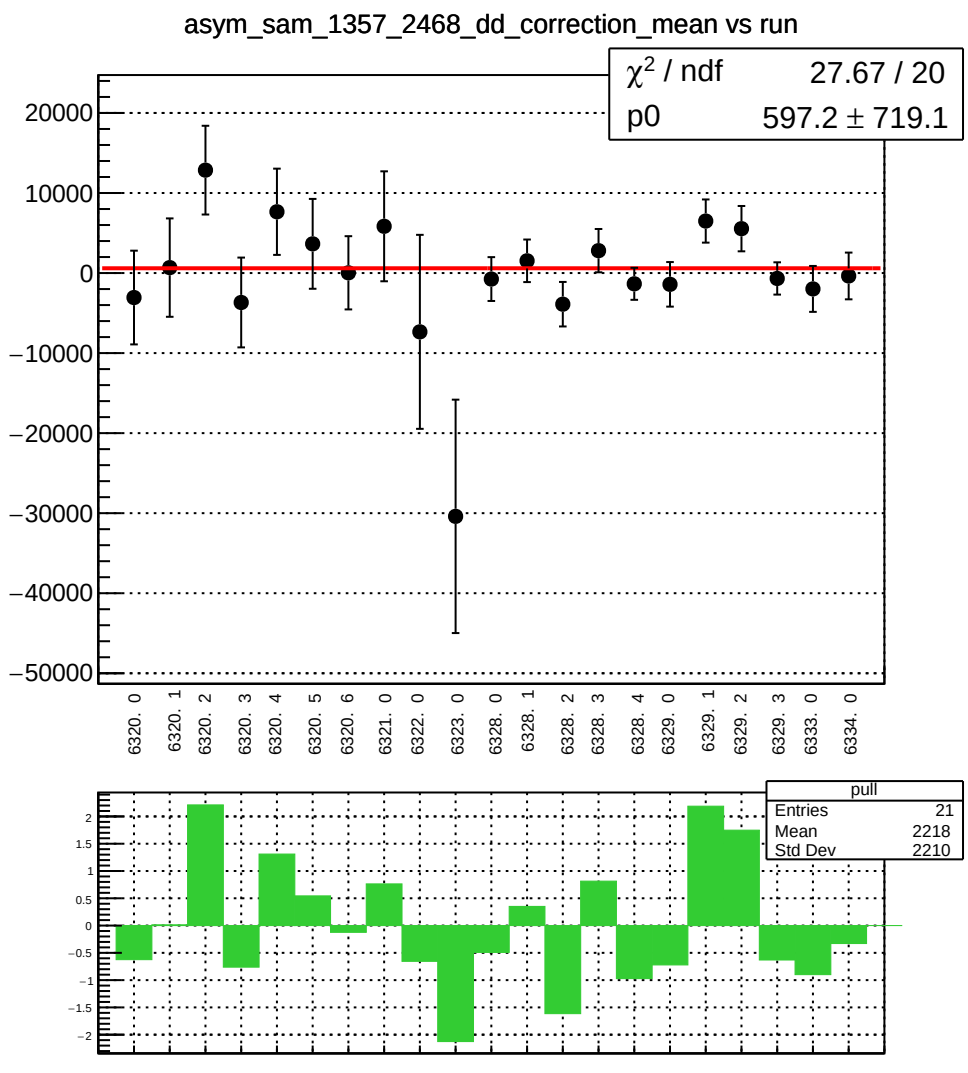

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 27.5 / 20
p0 2611 ± 2590
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −62.53
Std Dev 70.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

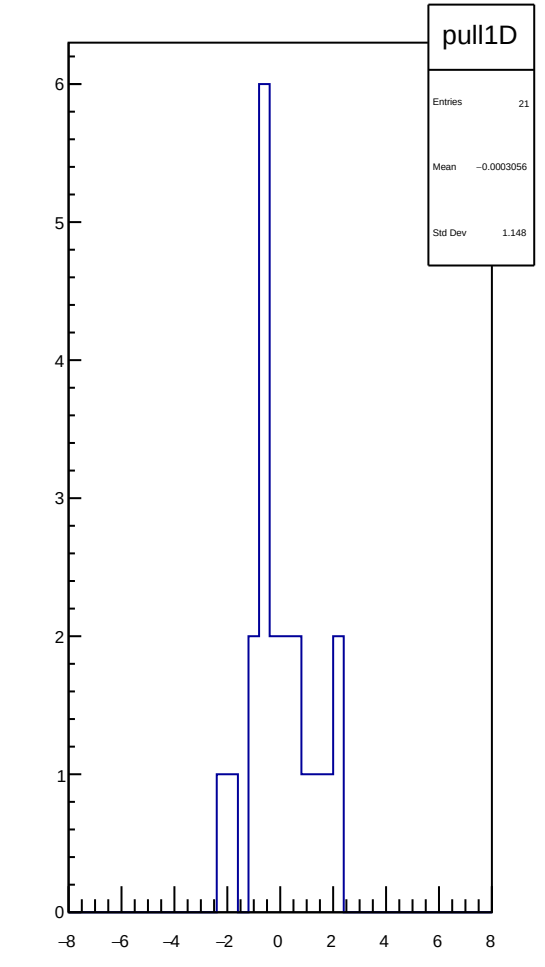

pull1D
Entries 21
Mean 0.0124
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

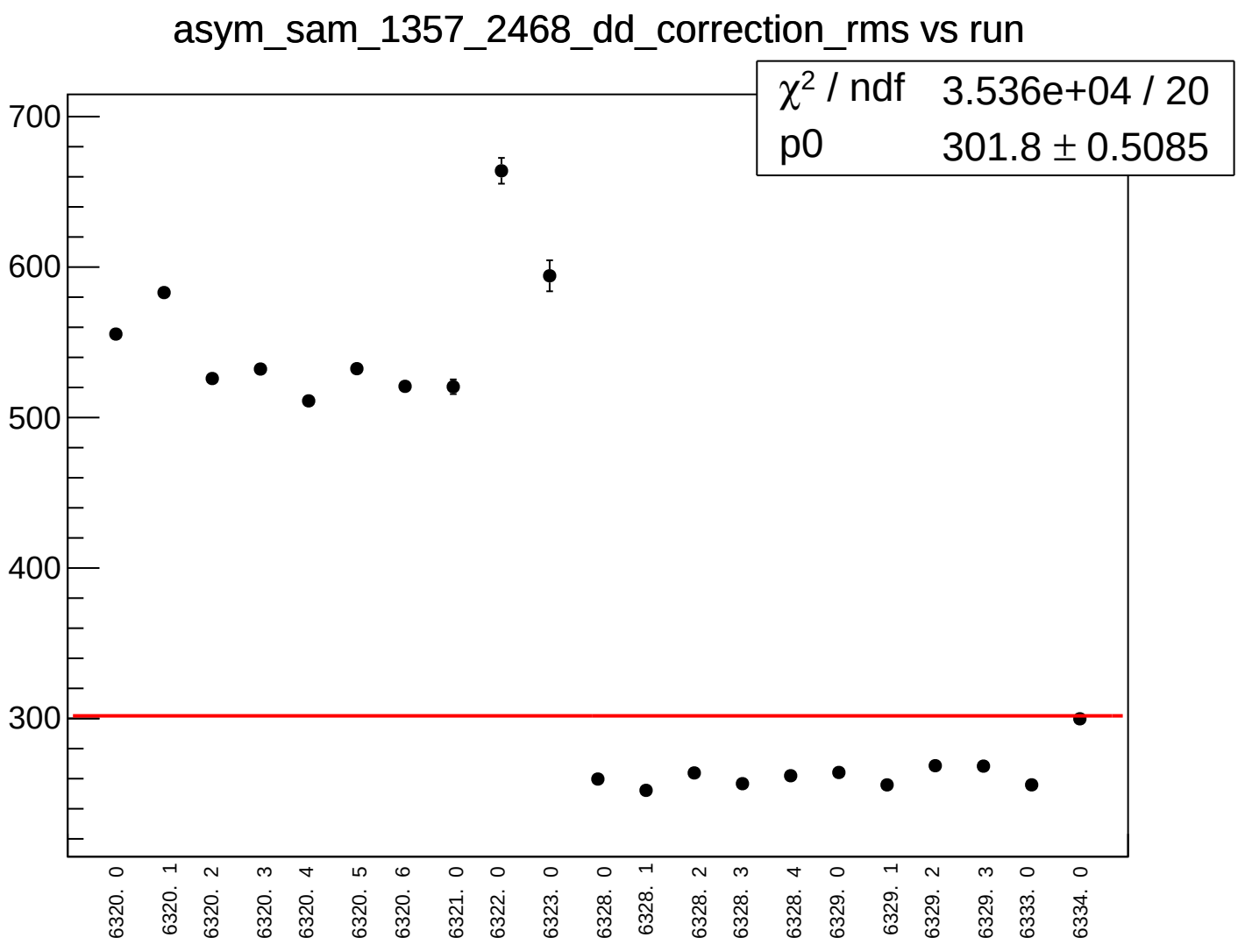

asym_sam_2468_avg_rms vs run
χ² / ndf 3.494e+04 / 20
p0 1087 ± 1.831
2400
2200
2000
1800
1600
1400
1200
1000
800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

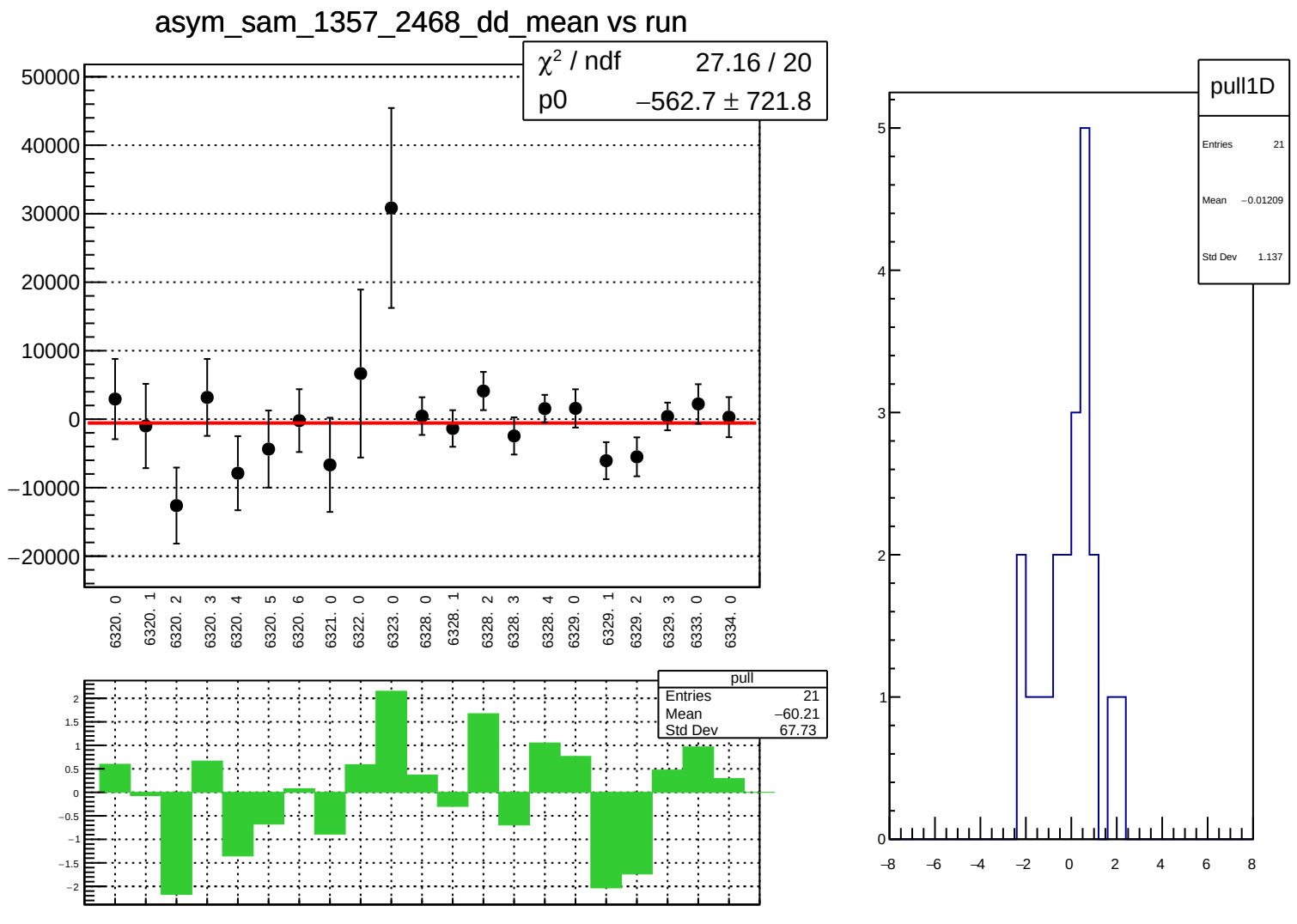

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 26.97 / 20
p0 −2.188 ± 58.83
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.75
Std Dev 25.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1019
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

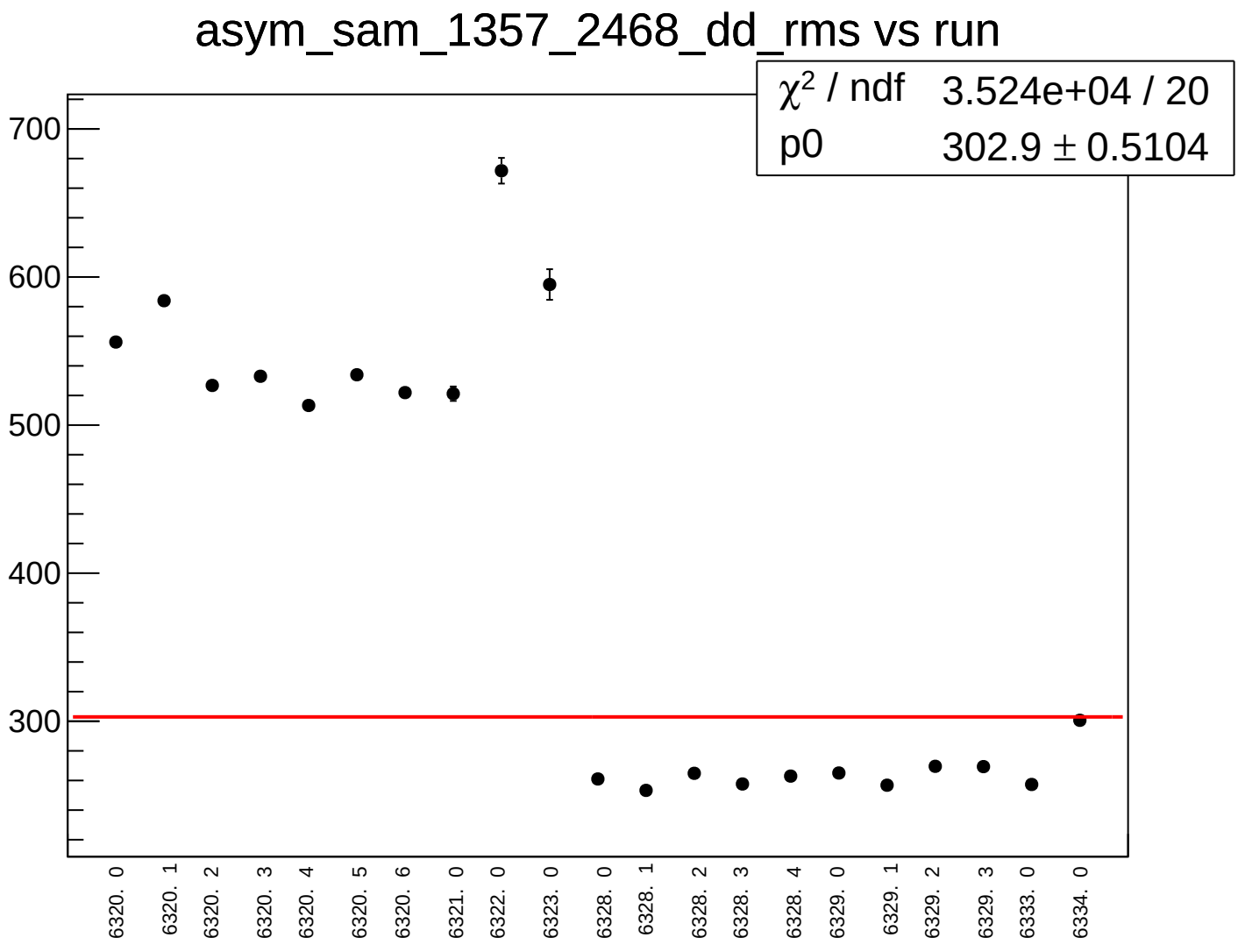

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.611e+04 / 20
p0 25.35 ± 0.0416
110
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

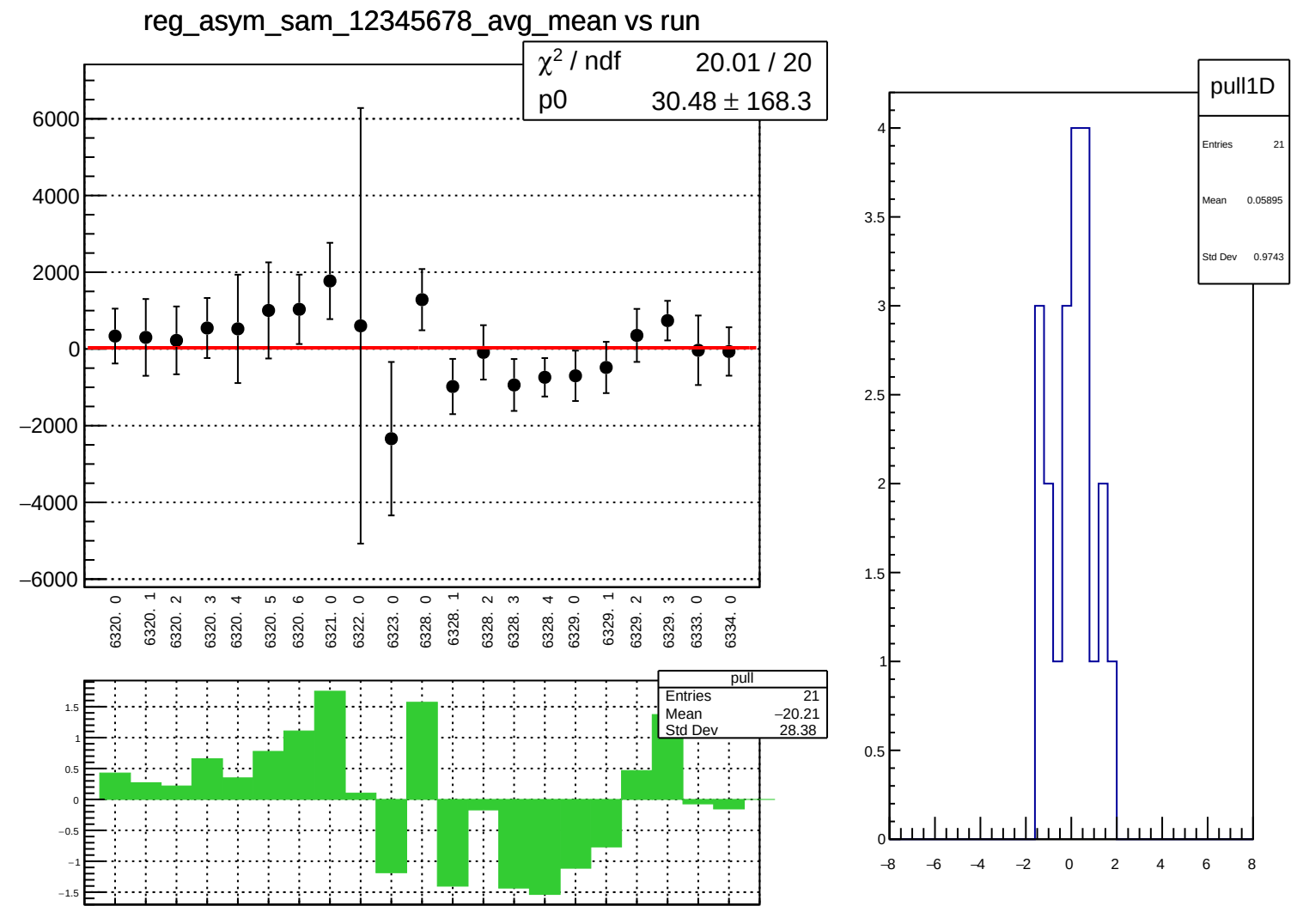

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 27.67 / 20
p0 597.2 ± 719.1
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2218
Std Dev 2210
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

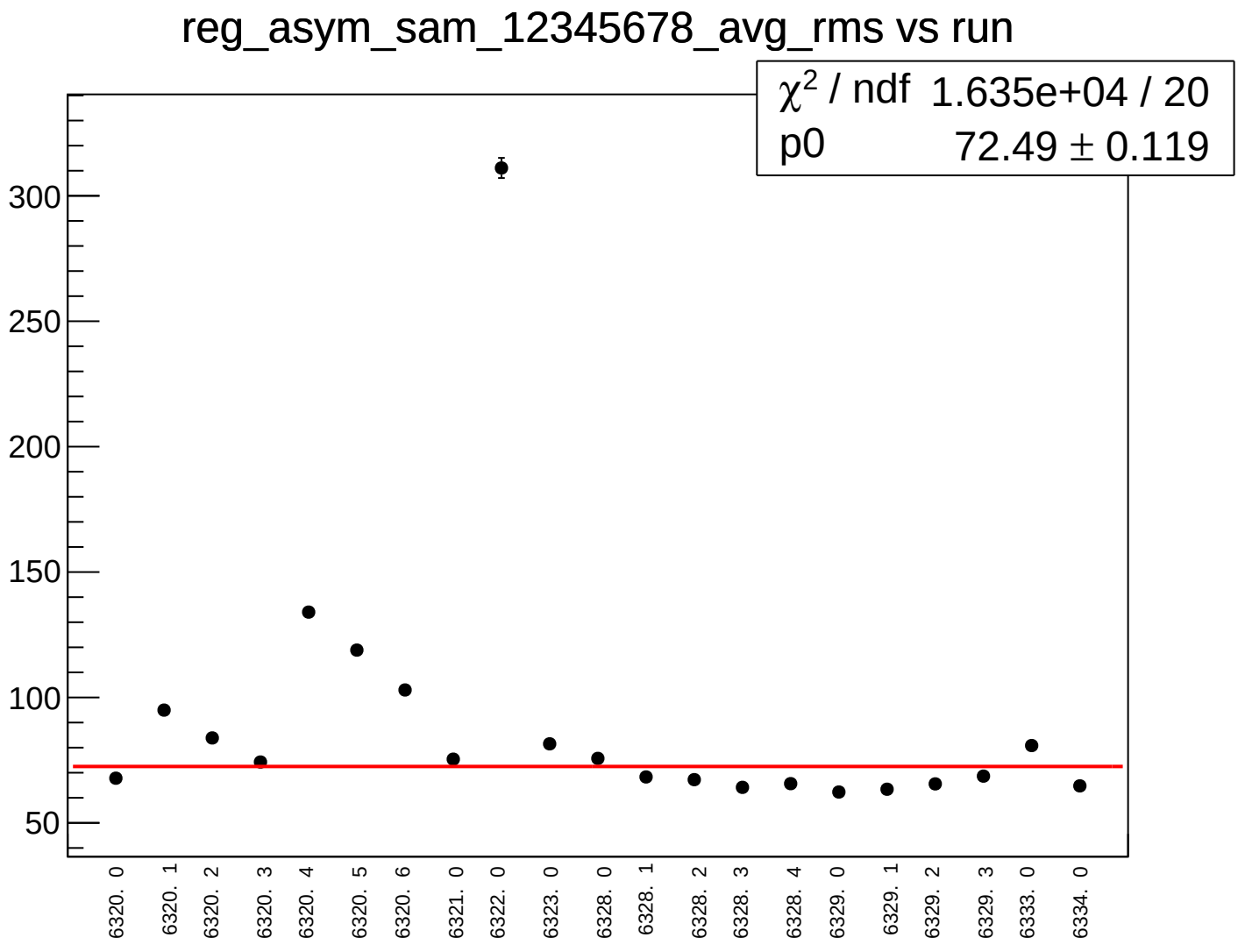

pull1D
Entries 21
Mean −0.0003056
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

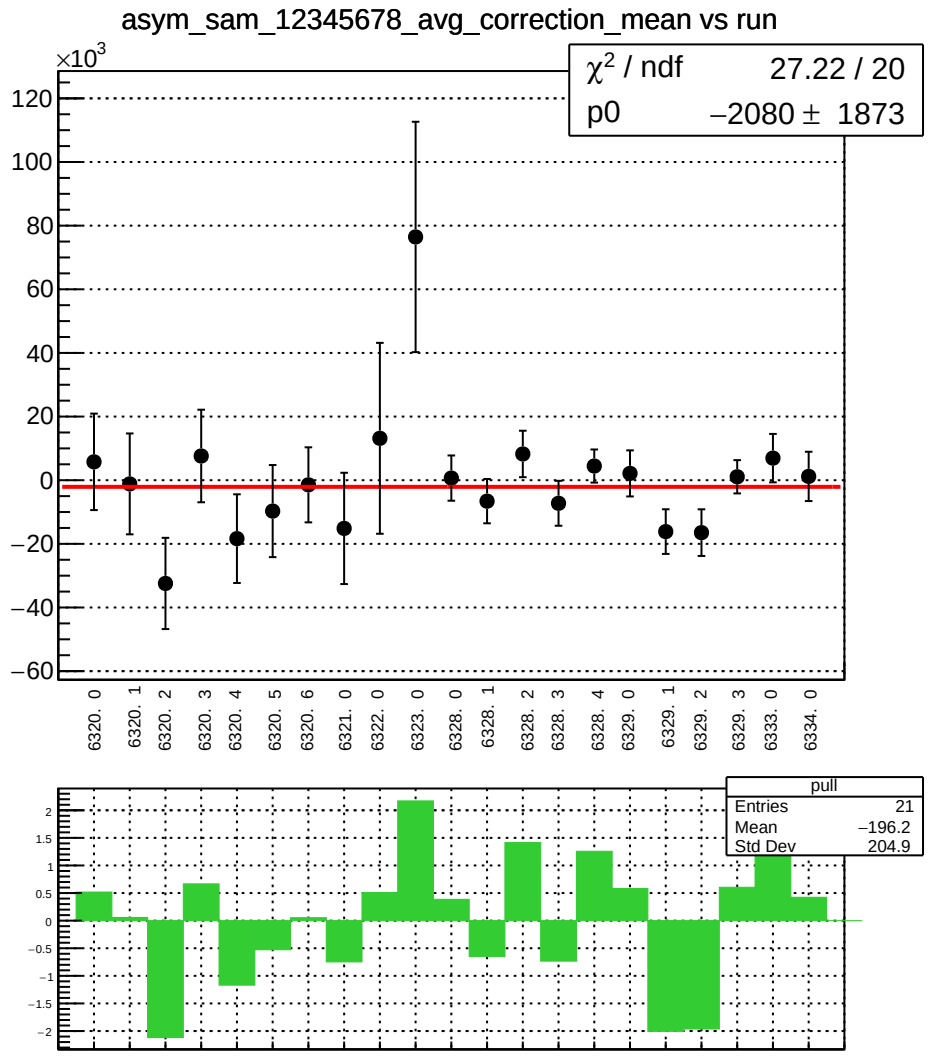

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3.536e+04 / 20
p0 301.8 ± 0.5085
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

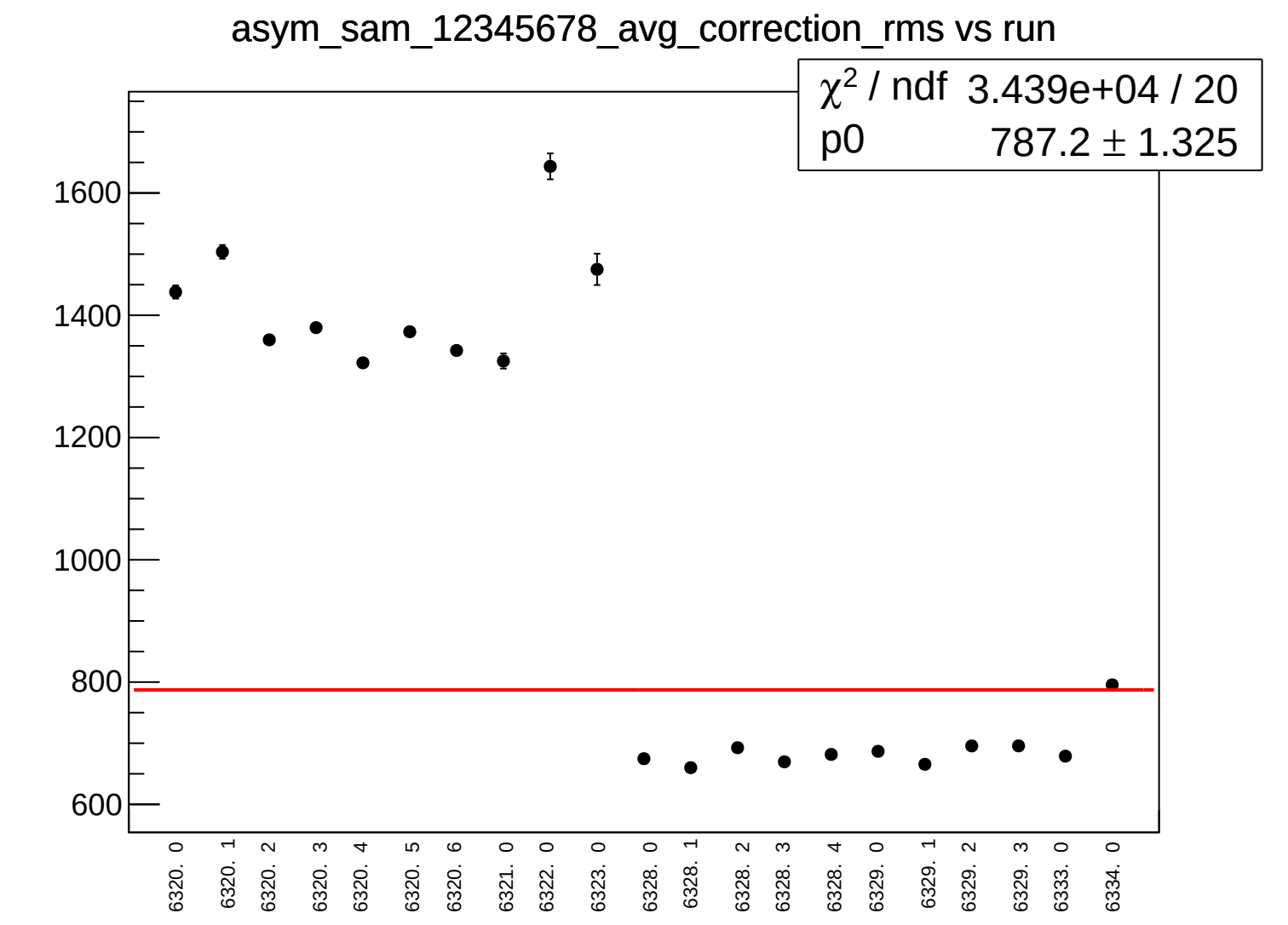

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.16 / 20
p0 −562.7 ± 721.8
50000
40000
30000
20000
10000
0
−10000
−20000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −60.21
Std Dev 67.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.01209
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

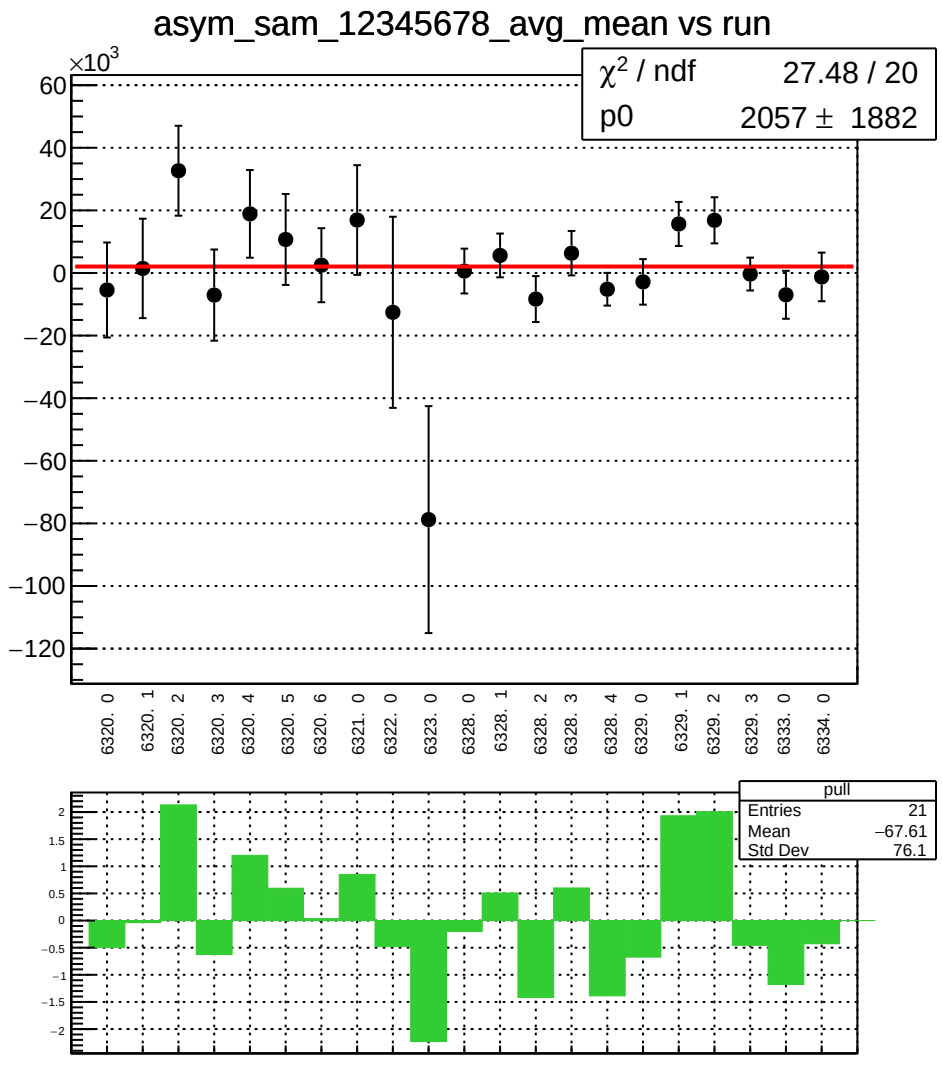

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.524e+04 / 20
p0 302.9 ± 0.5104
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

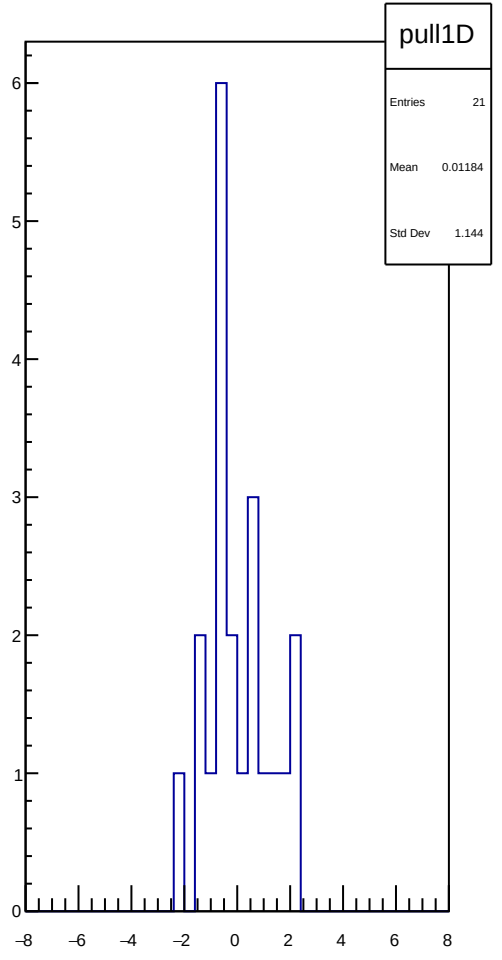

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 20.01 / 20
p0 30.48 ± 168.3
6000
4000
2000
0
−2000
−4000
−6000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.21
Std Dev 28.38
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.05895
Std Dev 0.9743
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

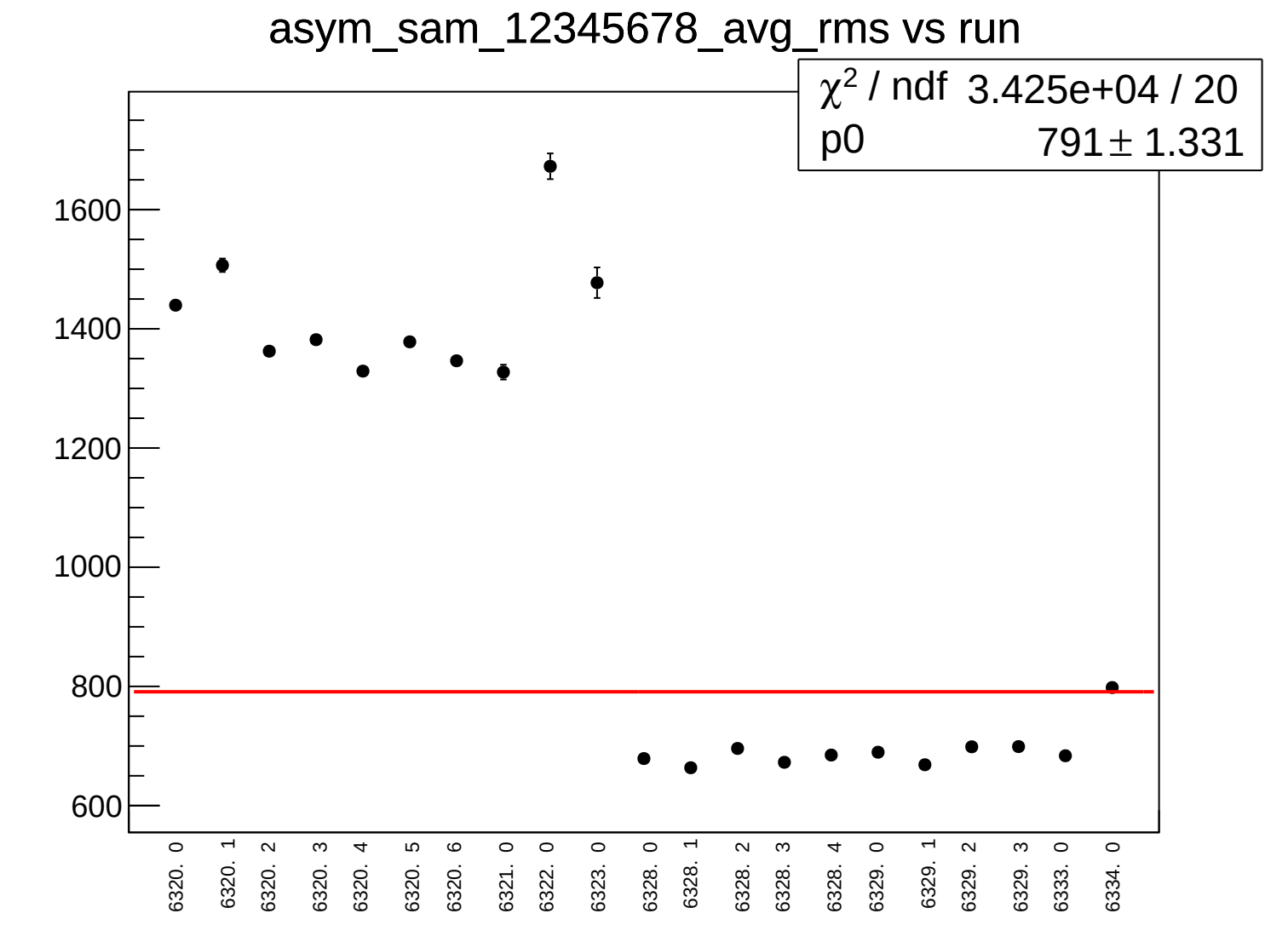

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.635e+04 / 20
p0 72.49 ± 0.119
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

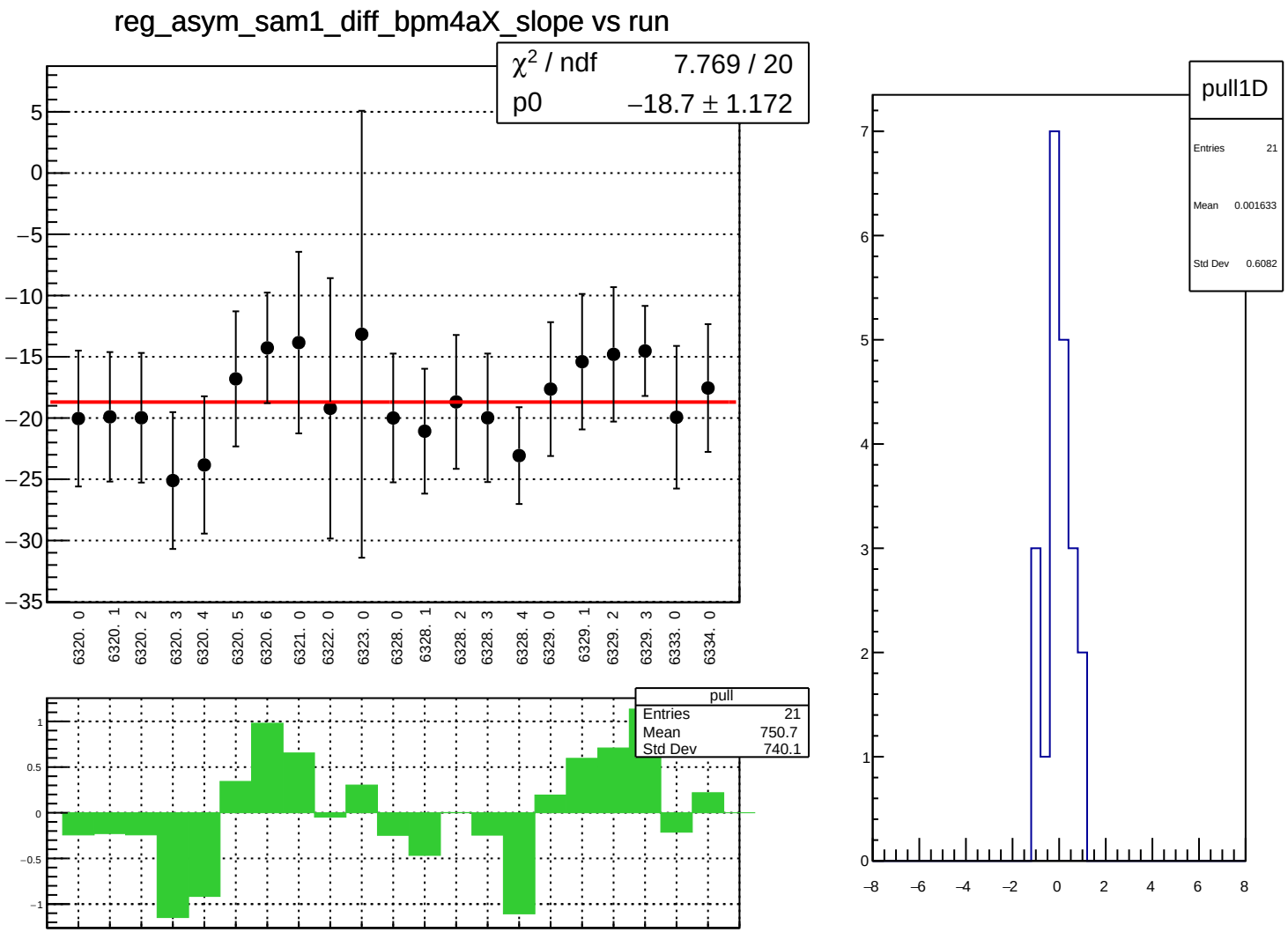

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 27.22 / 20
p0 −2080 ± 1873
120
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −196.2
Std Dev 204.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.003904
Std Dev 1.139
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

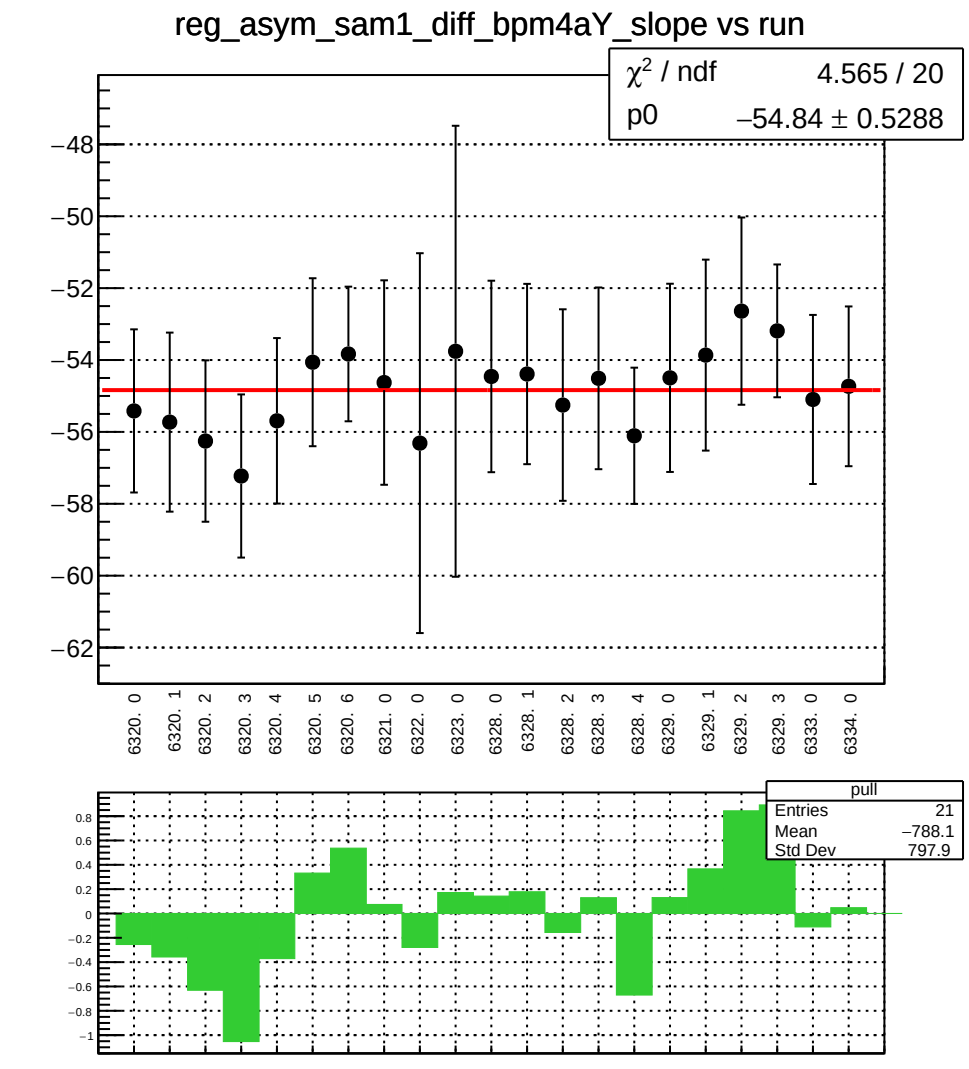

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 3.439e+04 / 20
p0 787.2 ± 1.325
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

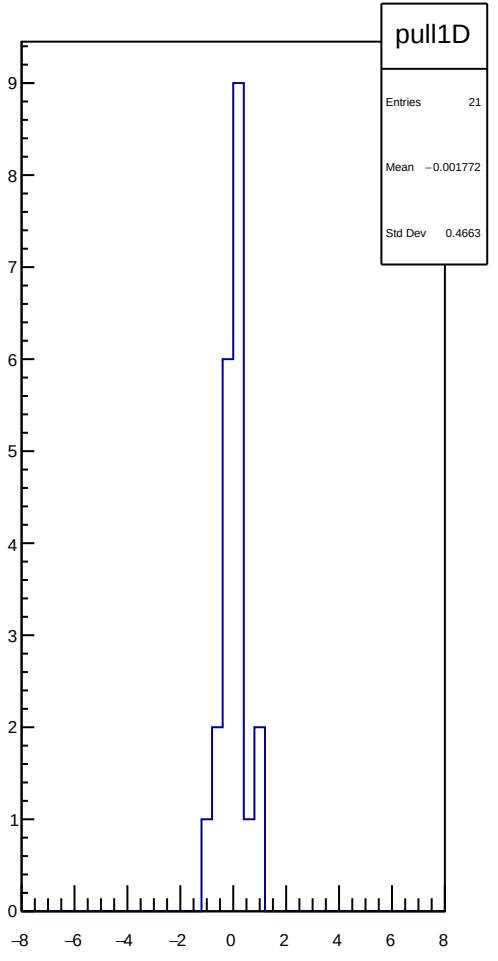

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 27.48 / 20
p0 2057 ± 1882
60
40
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −67.61
Std Dev 76.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

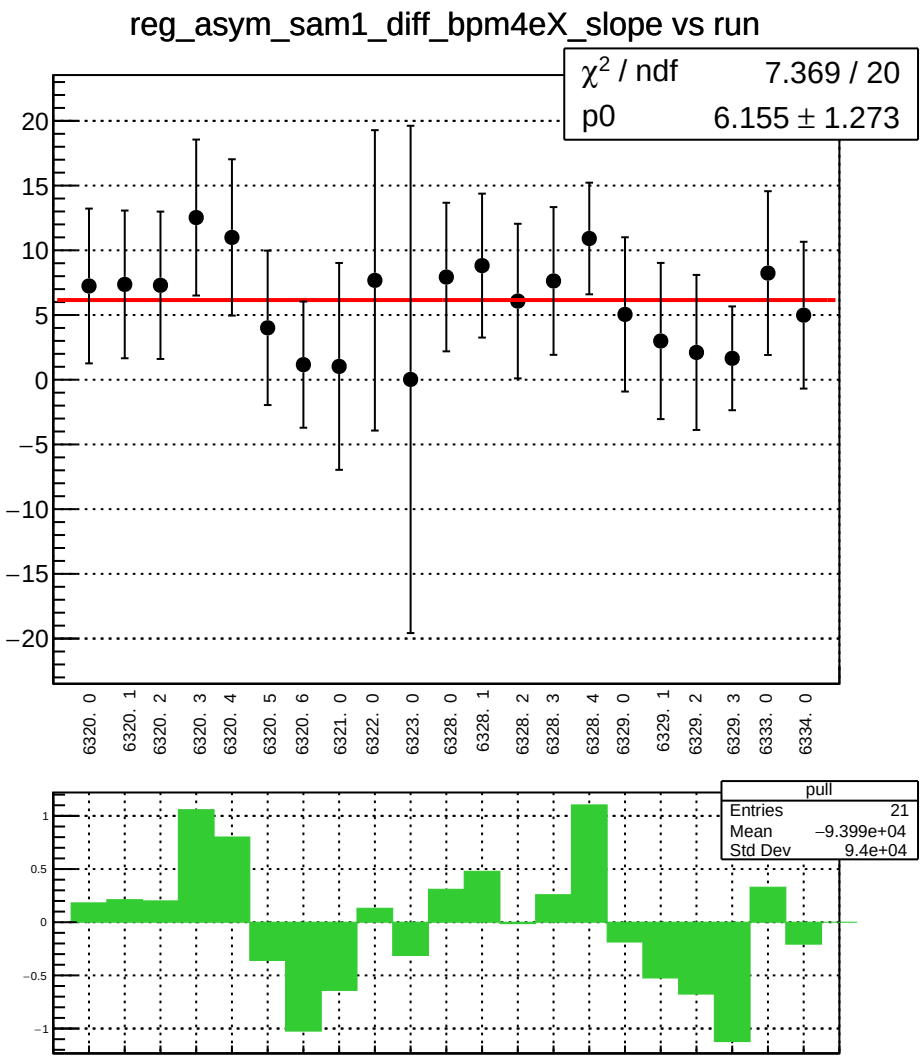

pull1D
Entries 21
Mean 0.01184
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

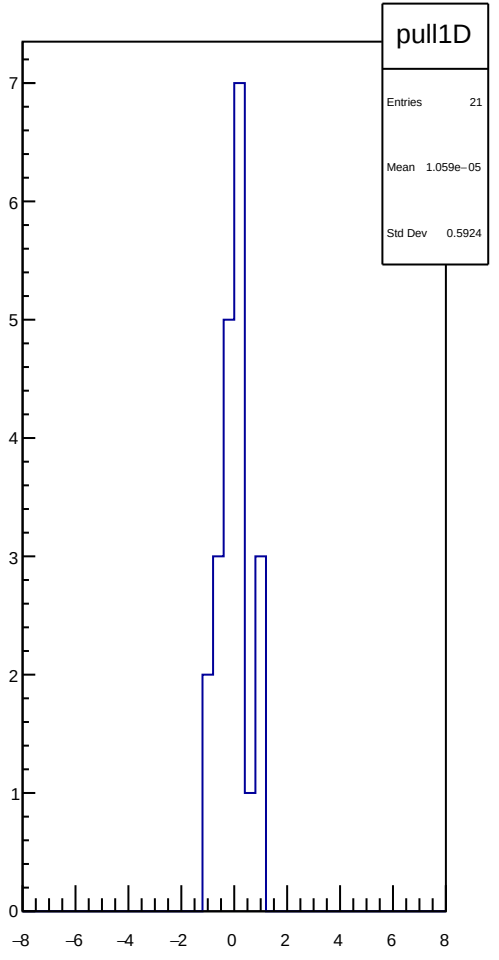

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.425e+04 / 20
p0 791 ± 1.331
1600
1400
1200
1000
800
600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

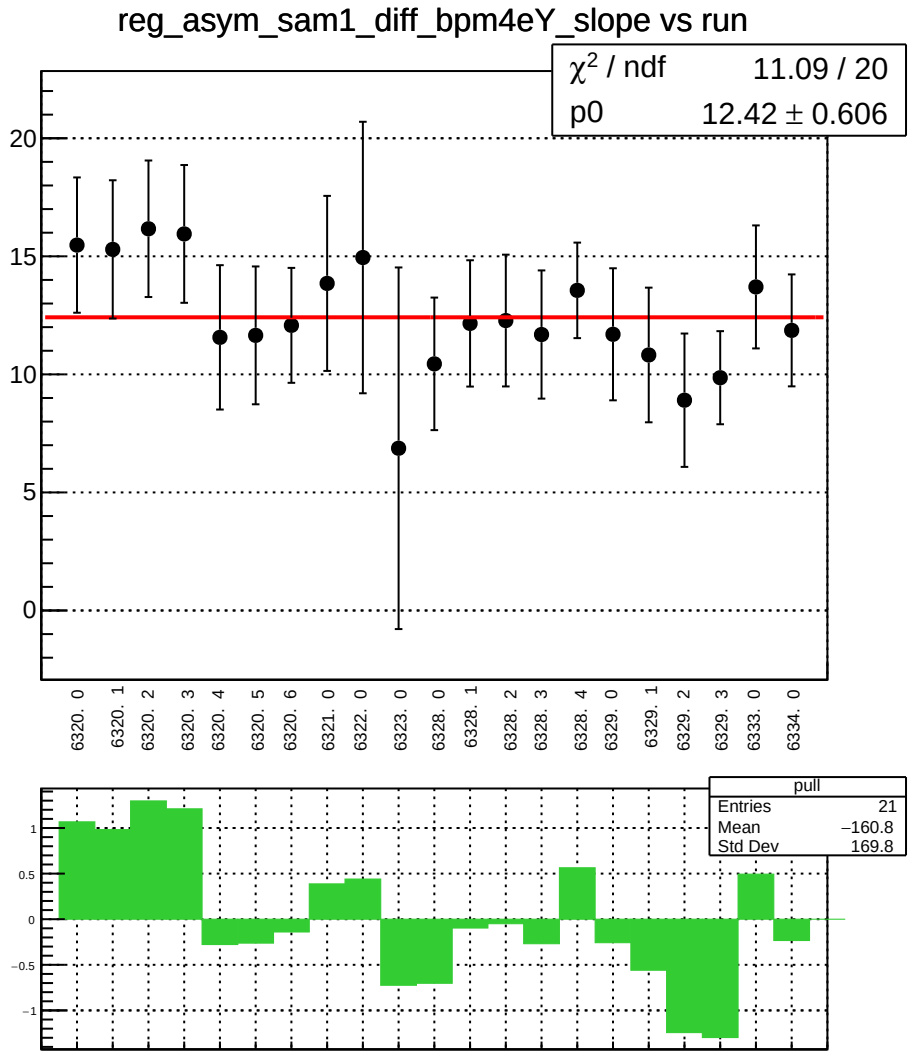

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 7.769 / 20
p0 −18.7 ± 1.172
5
0
−5
−10
−15
−20
−25
−30
−35
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 750.7
Std Dev 740.1
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.001633
Std Dev 0.6082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

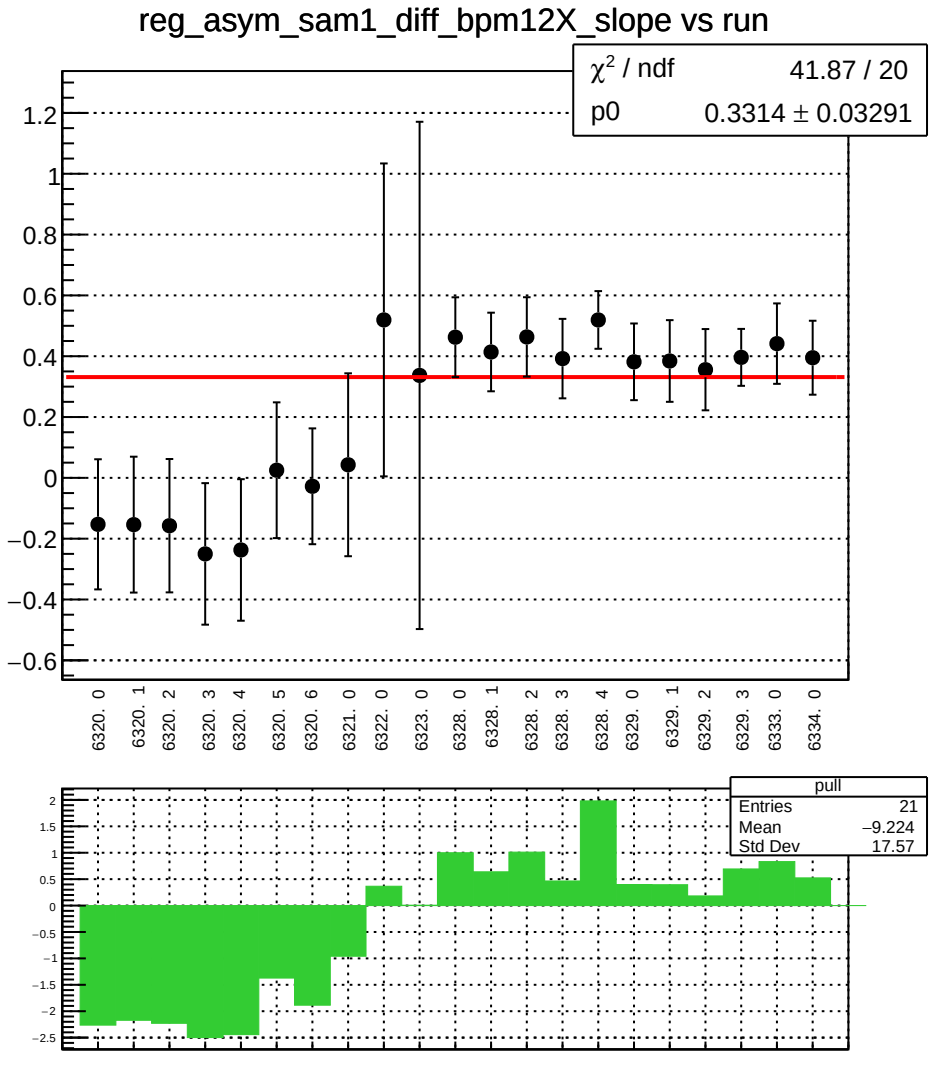

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.565 / 20
p0 −54.84 ± 0.5288
−48
−50
−52
−54
−56
−58
−60
−62
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −788.1
Std Dev 797.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

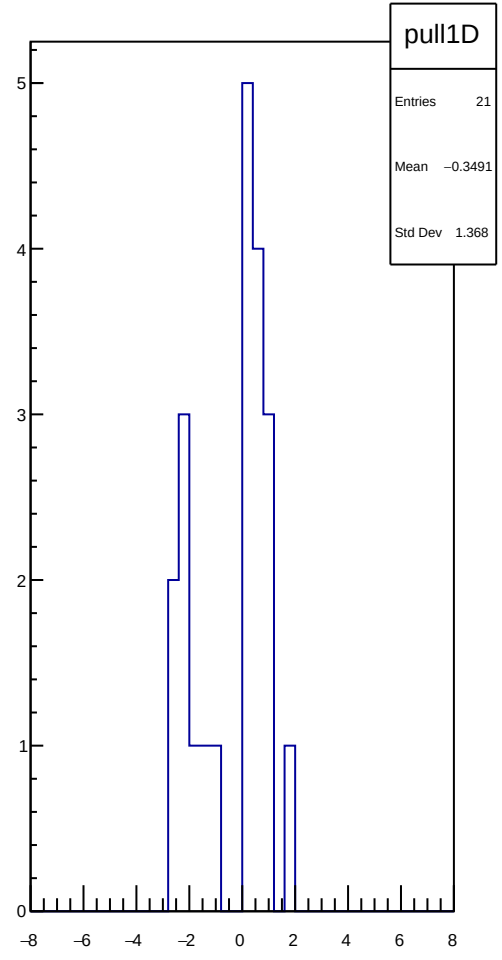

pull1D
Entries 21
Mean −0.001772
Std Dev 0.4663
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

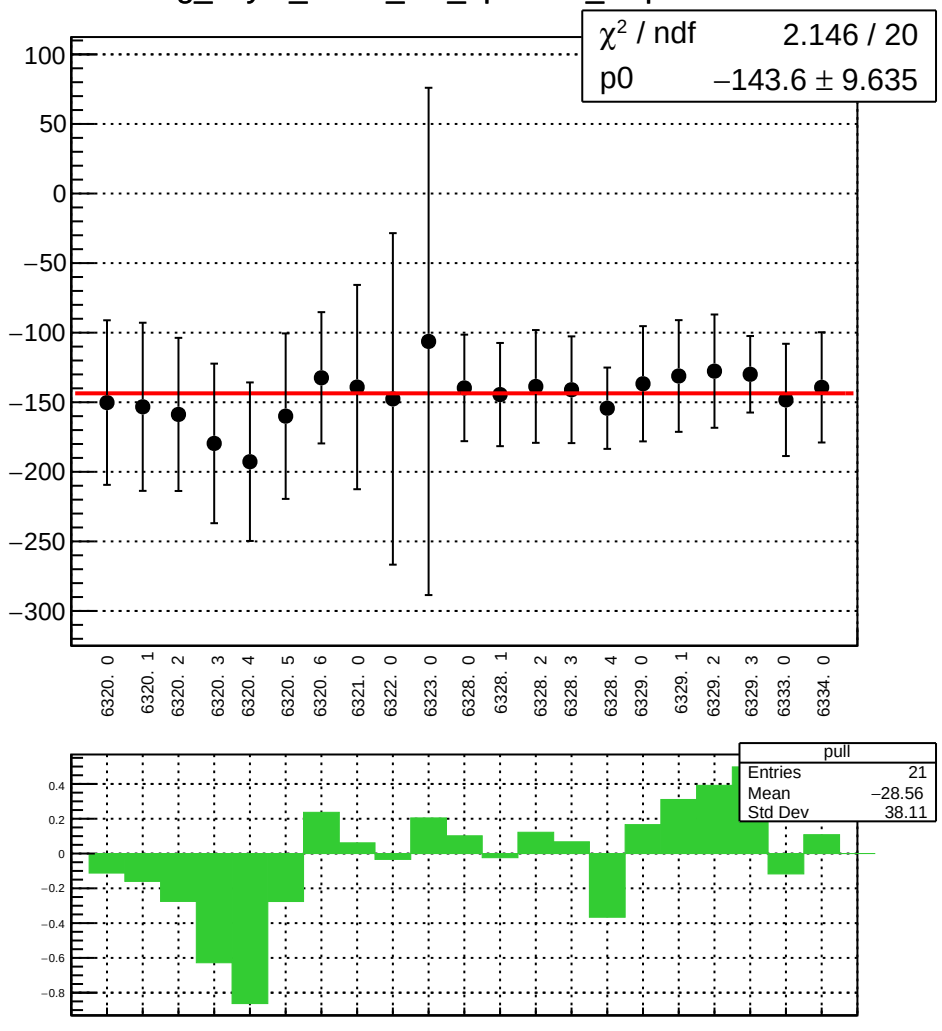

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.369 / 20
p0 6.155 ± 1.273
20
15
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.399e+04
Std Dev 9.4e+04
1
0.5
0
−0.5
−1

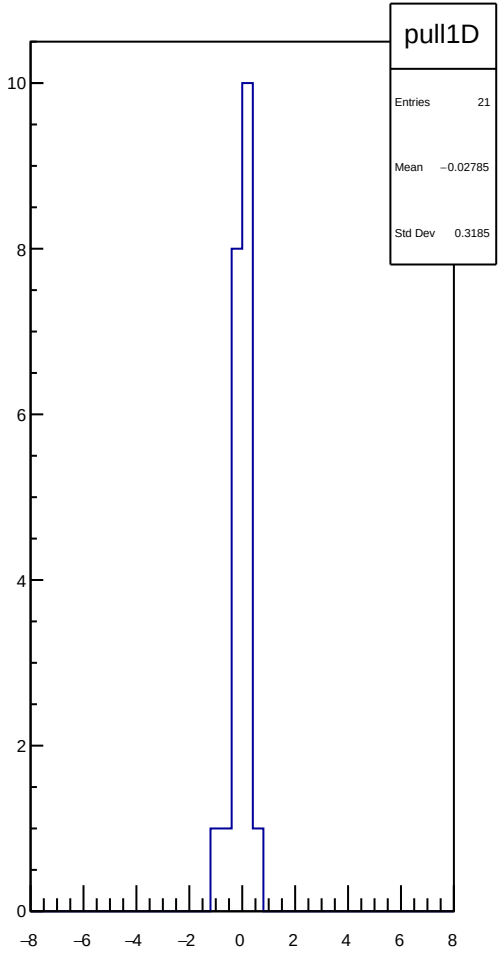

pull1D
Entries 21
Mean 1.059e−05
Std Dev 0.5924
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

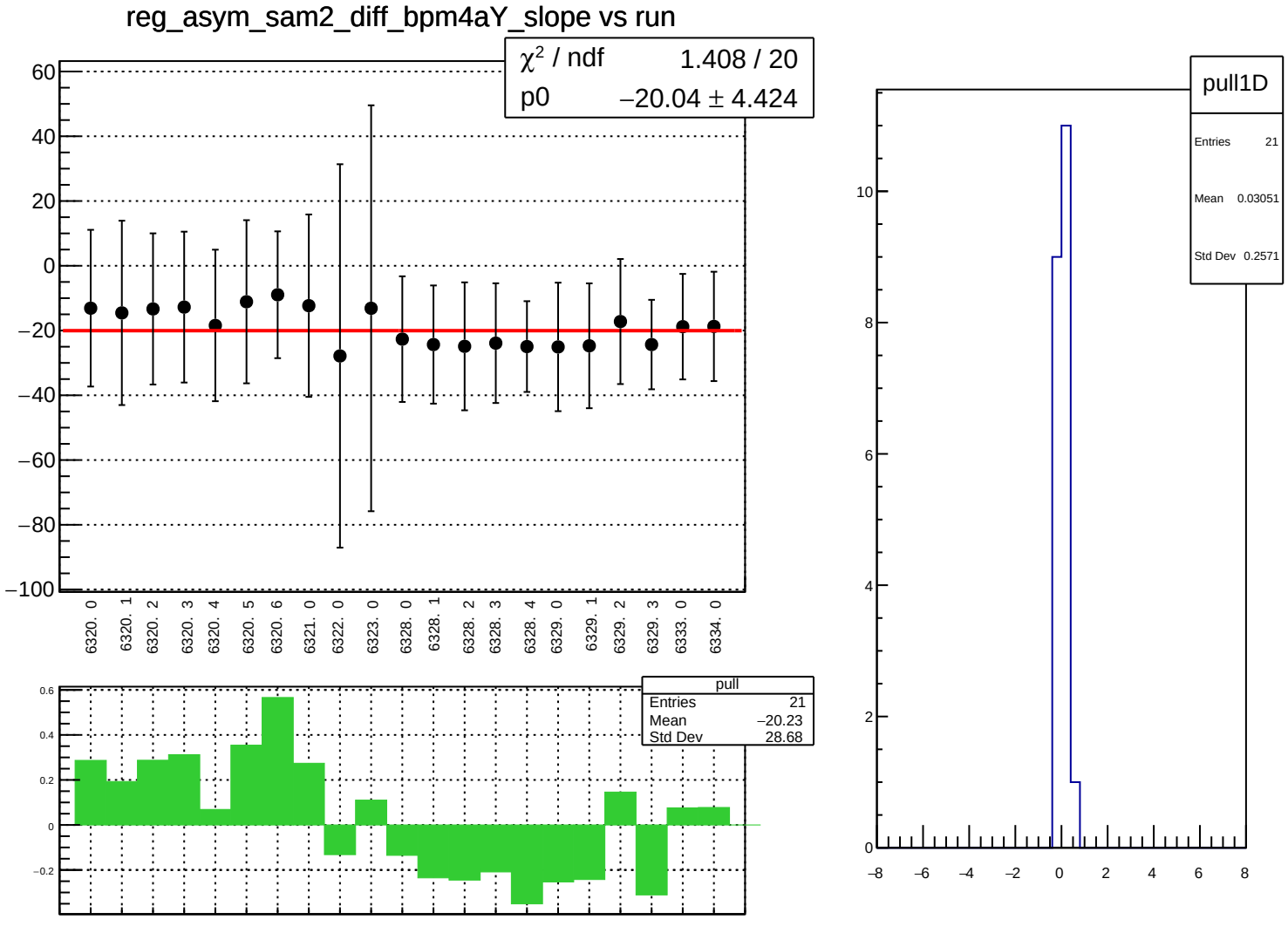

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 11.09 / 20
p0 12.42 ± 0.606
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −160.8
Std Dev 169.8
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.01571
Std Dev 0.7265
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

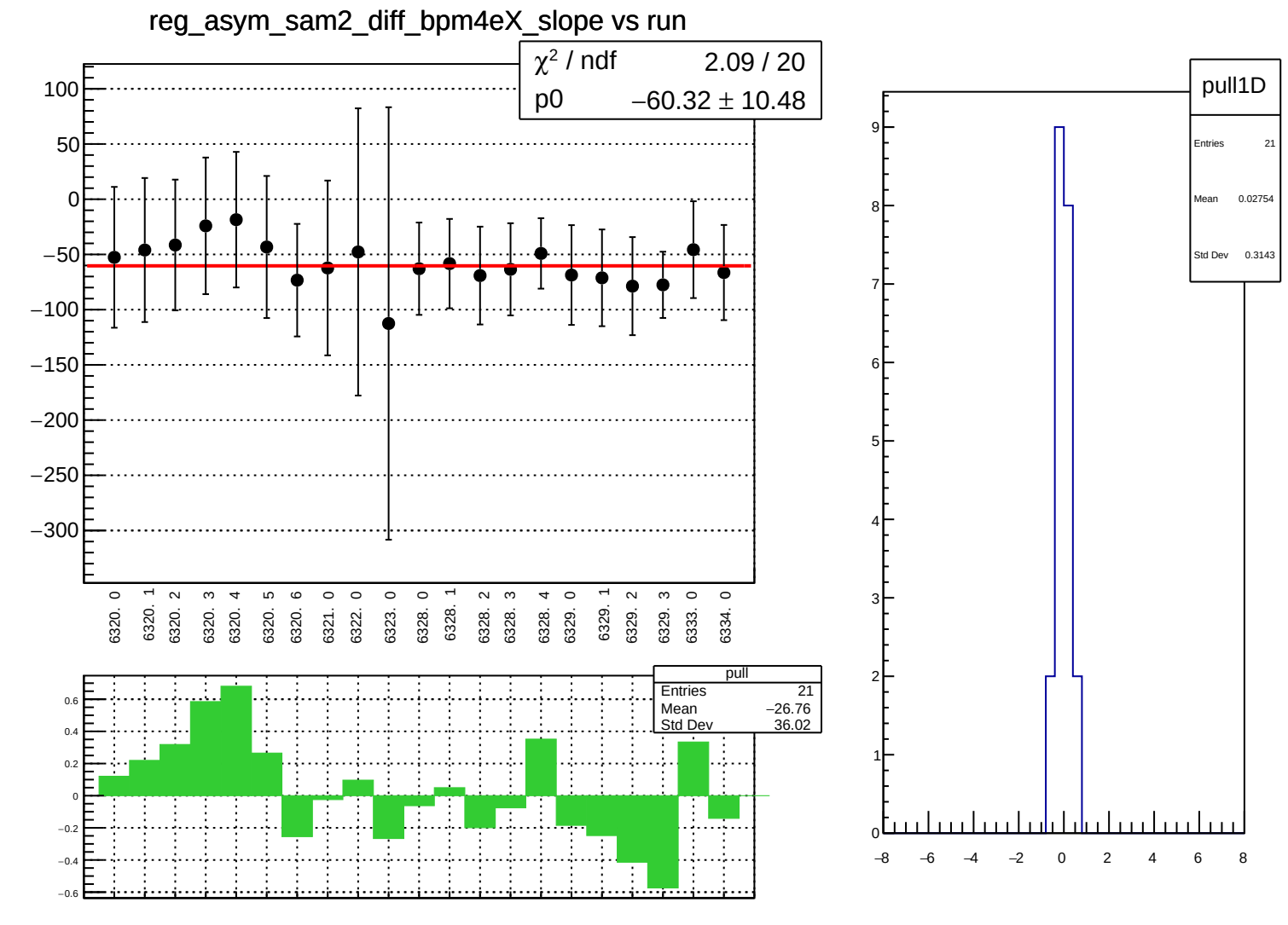

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 41.87 / 20
p0 0.3314 ± 0.03291
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.224
Std Dev 17.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

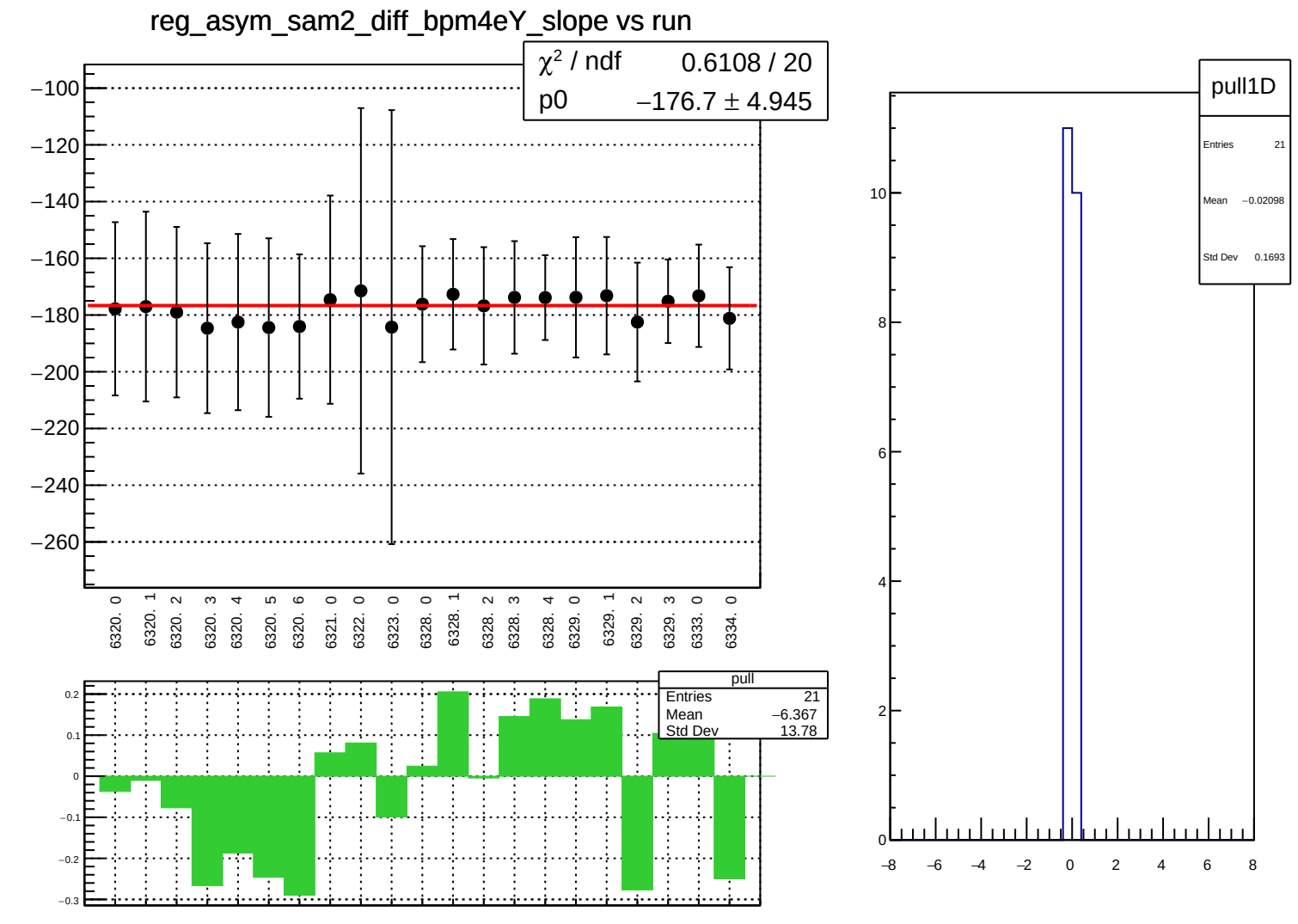

pull1D
Entries 21
Mean −0.3491
Std Dev 1.368
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

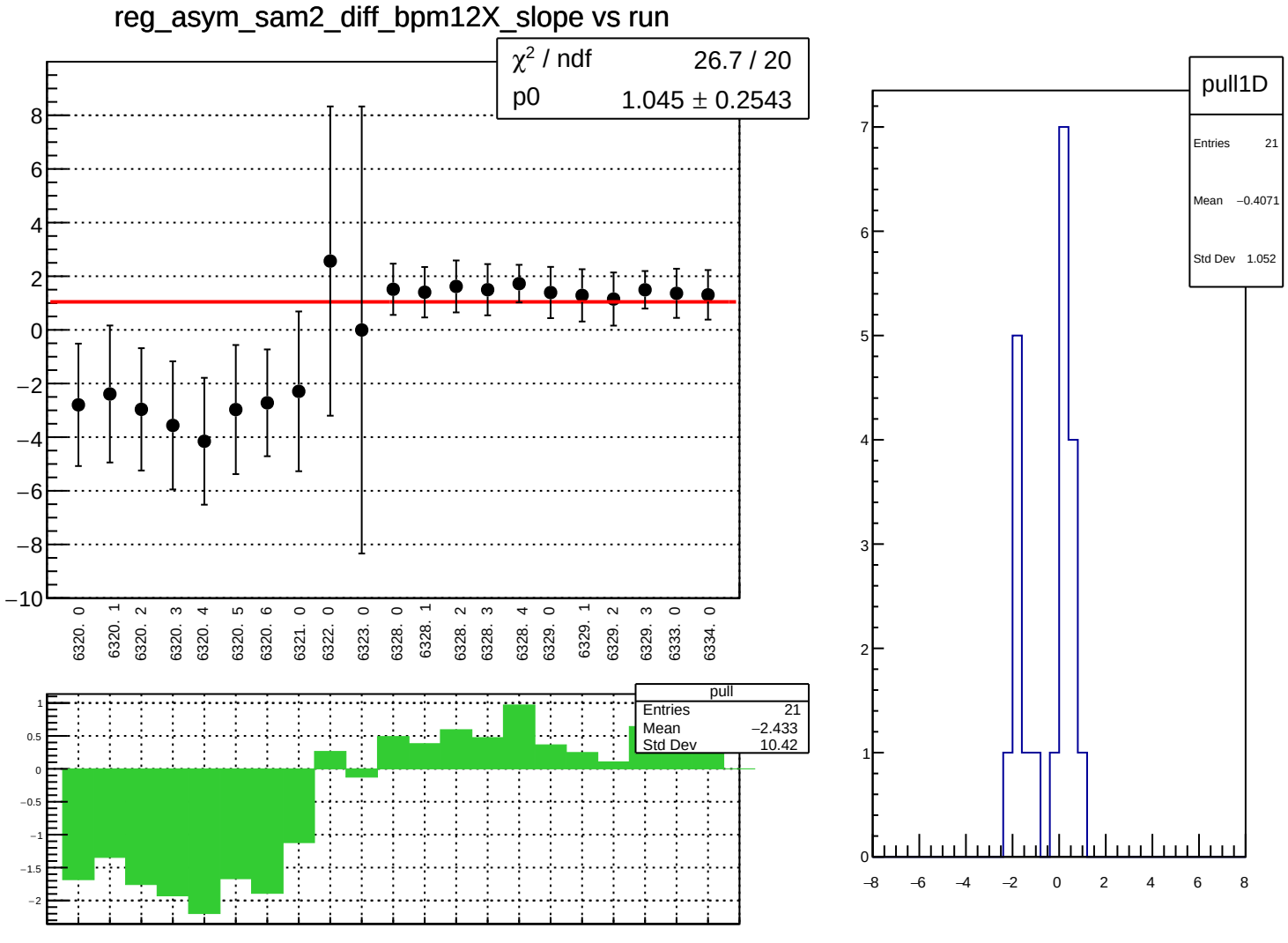

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.146 / 20
p0 −143.6 ± 9.635
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.56
Std Dev 38.11
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

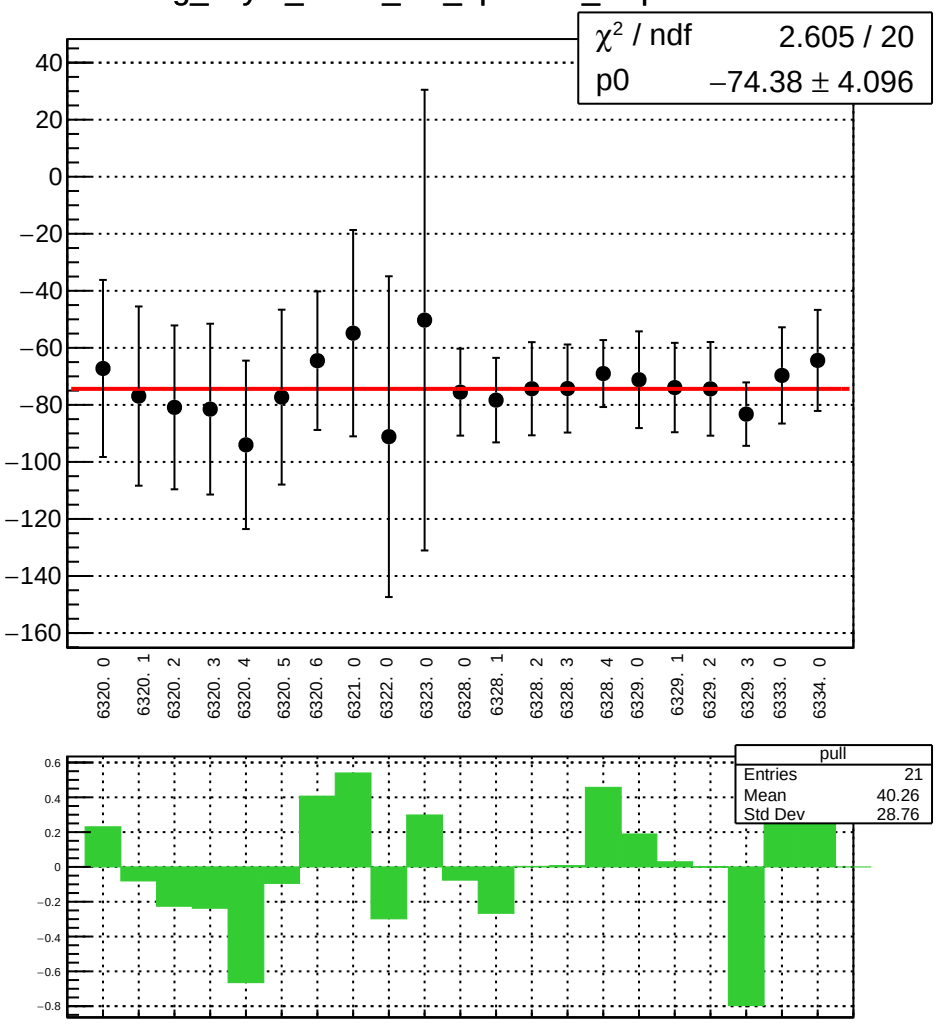

pull1D
Entries 21
Mean −0.02785
Std Dev 0.3185
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

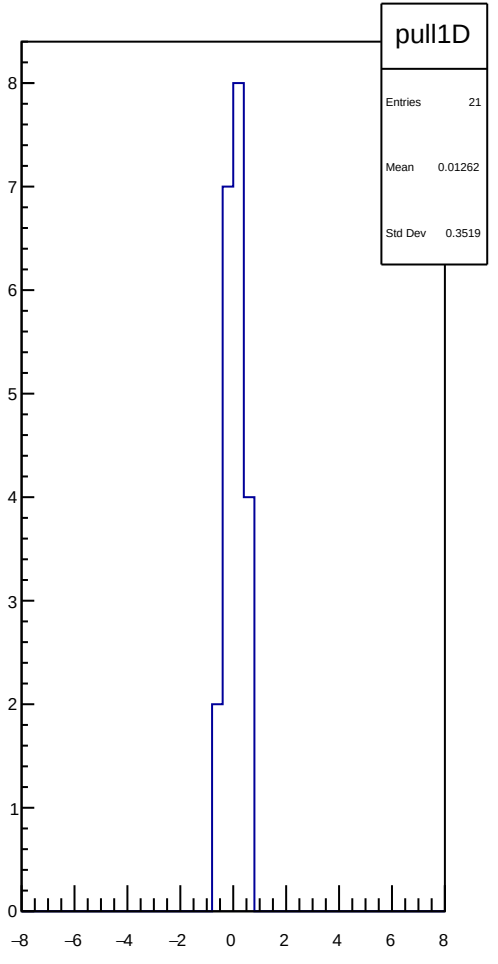

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.408 / 20
p0 −20.04 ± 4.424
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.23
Std Dev 28.68
0.6
0.4
0.2
0
−0.2
pull1D
Entries 21
Mean 0.03051
Std Dev 0.2571
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

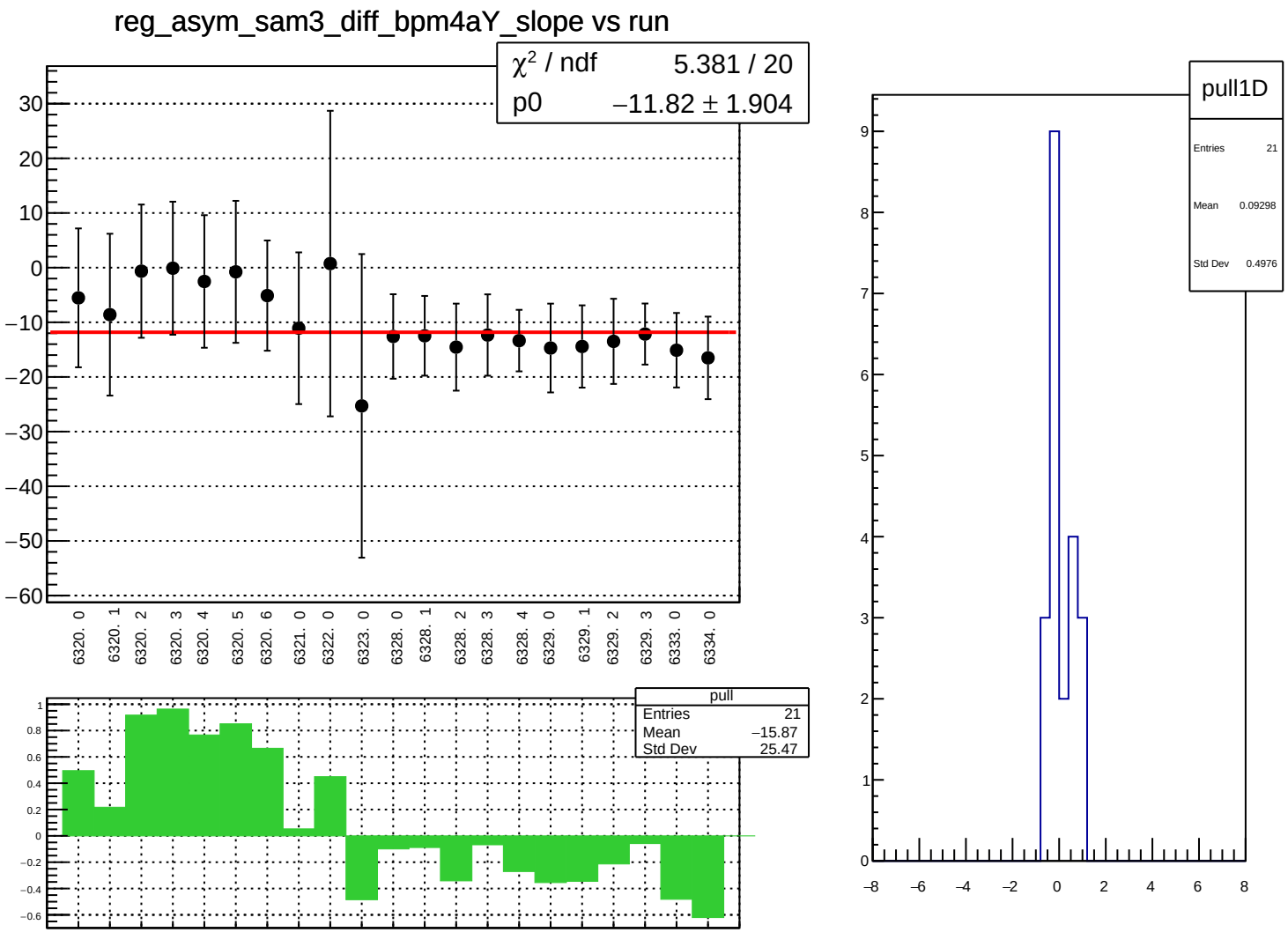

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.09 / 20
p0 −60.32 ± 10.48
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −26.76
Std Dev 36.02
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.02754
Std Dev 0.3143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

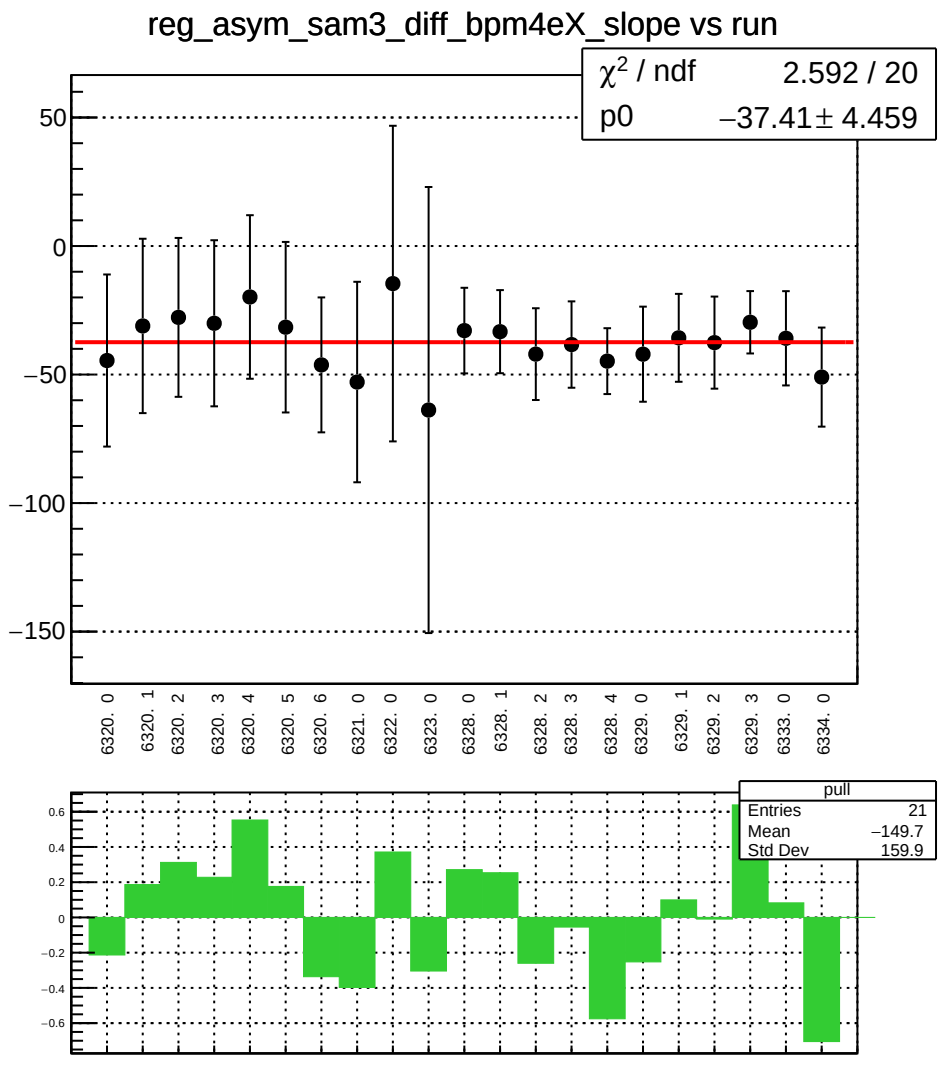

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.6108 / 20
p0 −176.7 ± 4.945
−100
−120
−140
−160
−180
−200
−220
−240
−260
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.367
Std Dev 13.78
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 21
Mean −0.02098
Std Dev 0.1693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

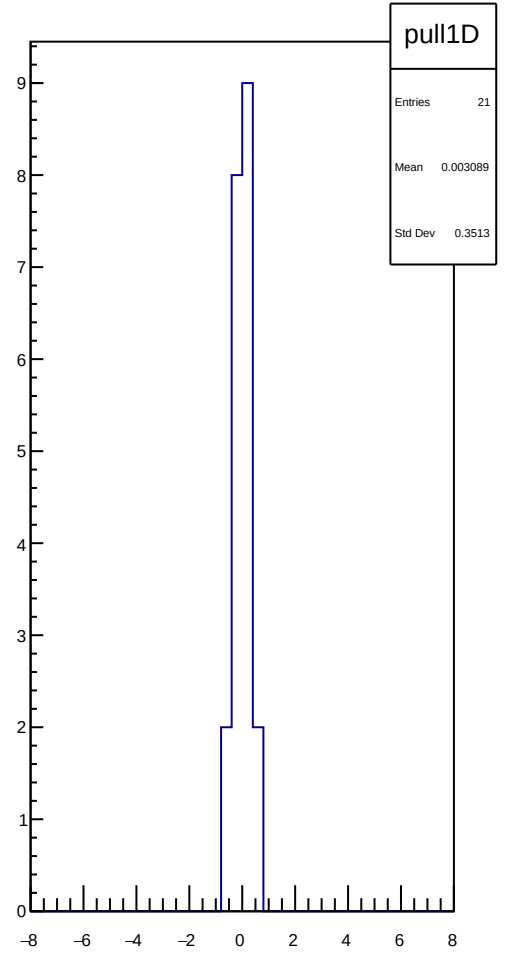

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 26.7 / 20
p0 1.045 ± 0.2543
8
6
4
2
0
−2
−4
−6
−8
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.433
Std Dev 10.42
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.4071
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

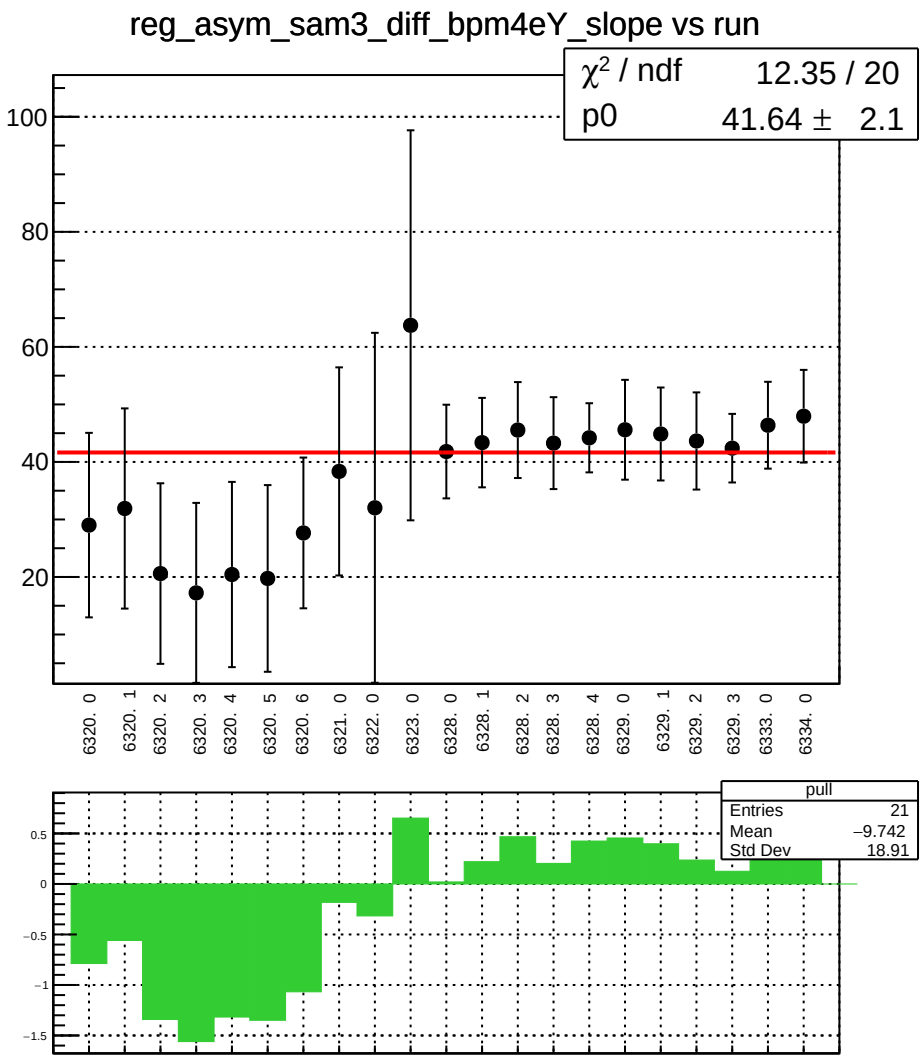

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 2.605 / 20
p0 −74.38 ± 4.096
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.26
Std Dev 28.76
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

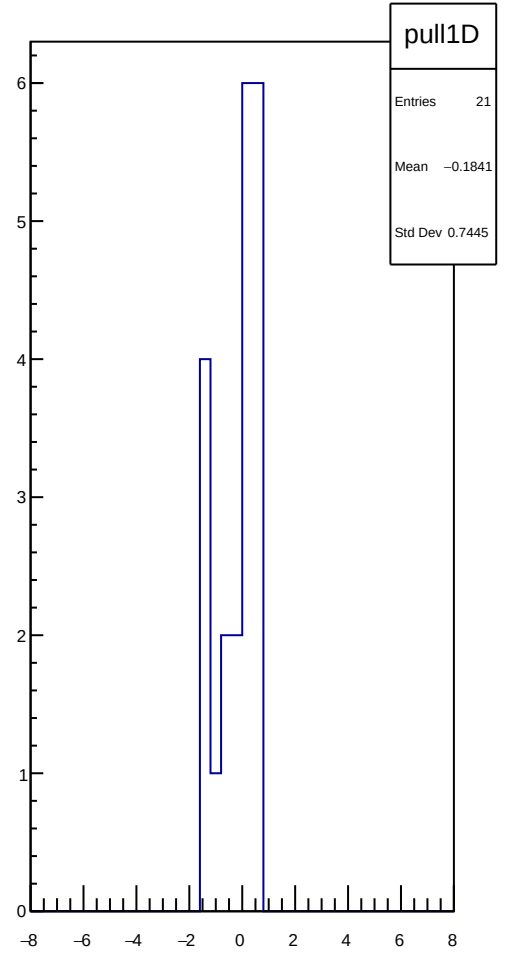

pull1D
Entries 21
Mean 0.01262
Std Dev 0.3519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

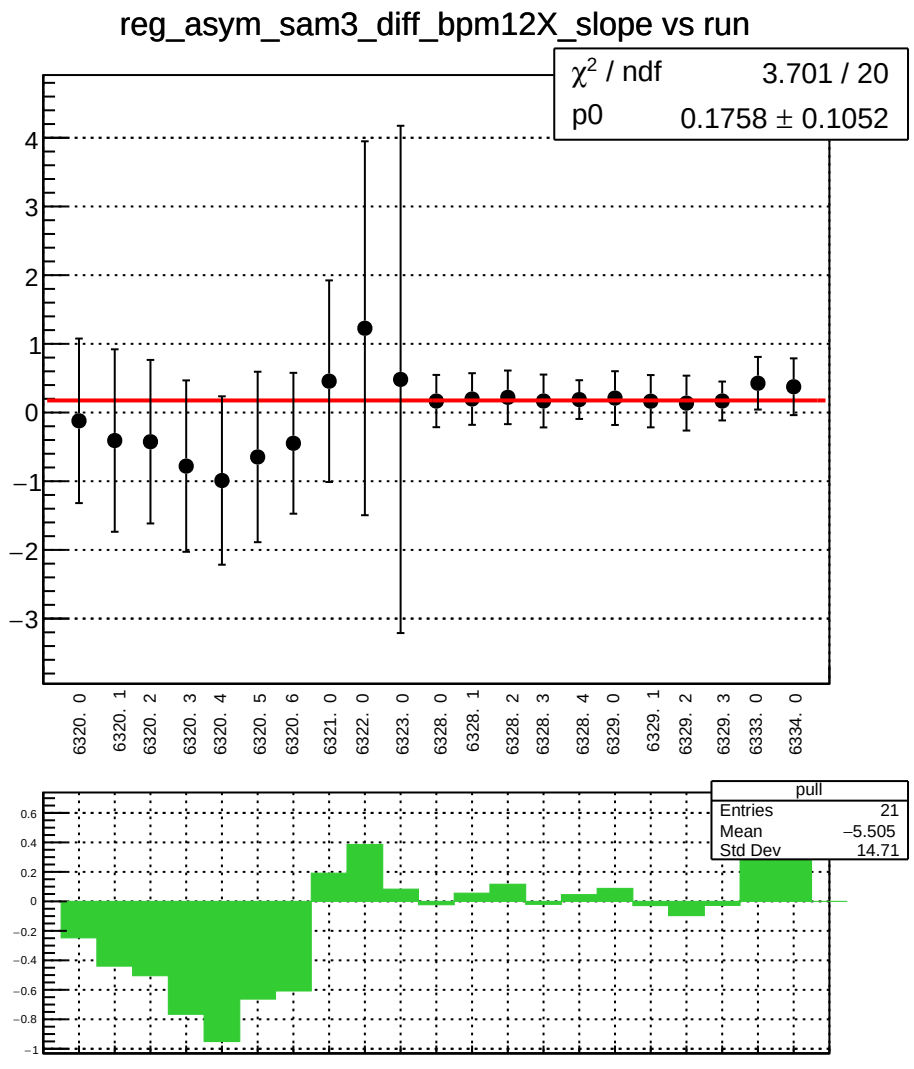

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.381 / 20
p0 −11.82 ± 1.904
30
20
10
0
−10
−20
−30
−40
−50
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.87
Std Dev 25.47
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.09298
Std Dev 0.4976
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

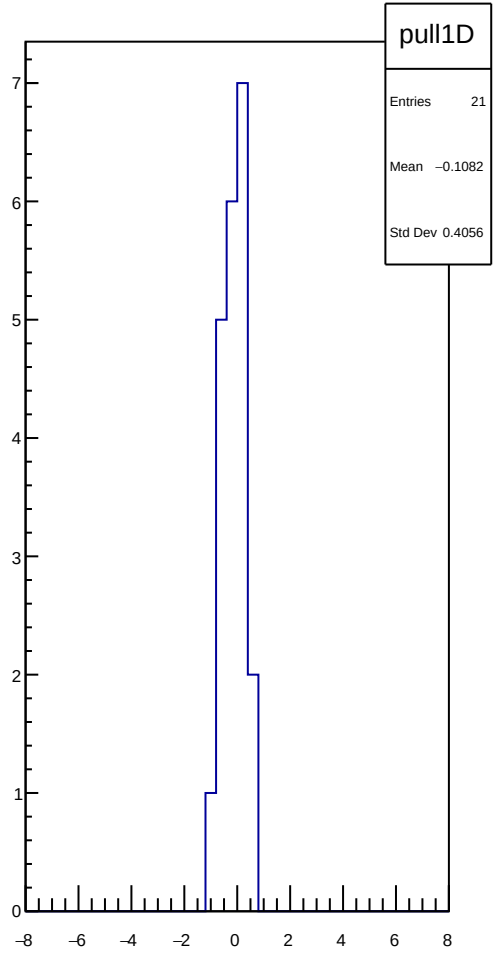

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.592 / 20
p0 −37.41 ± 4.459
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −149.7
Std Dev 159.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

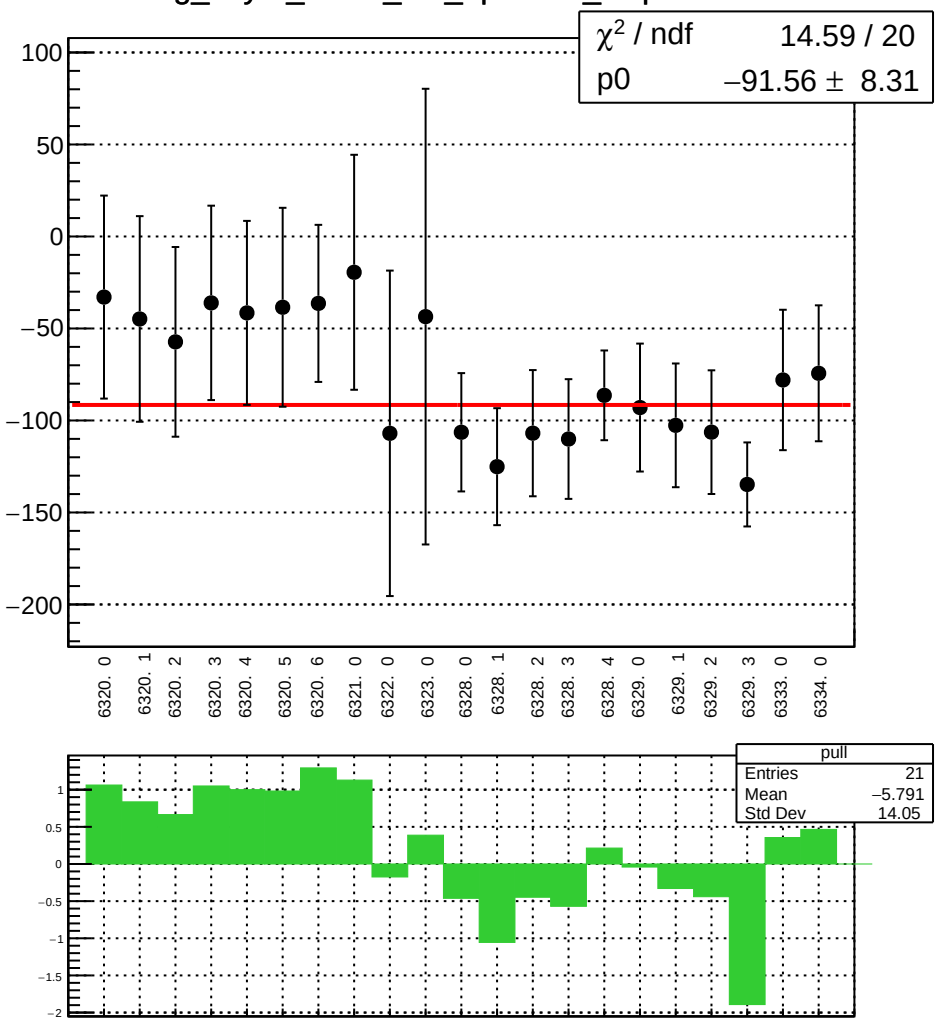

pull1D
Entries 21
Mean 0.003089
Std Dev 0.3513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

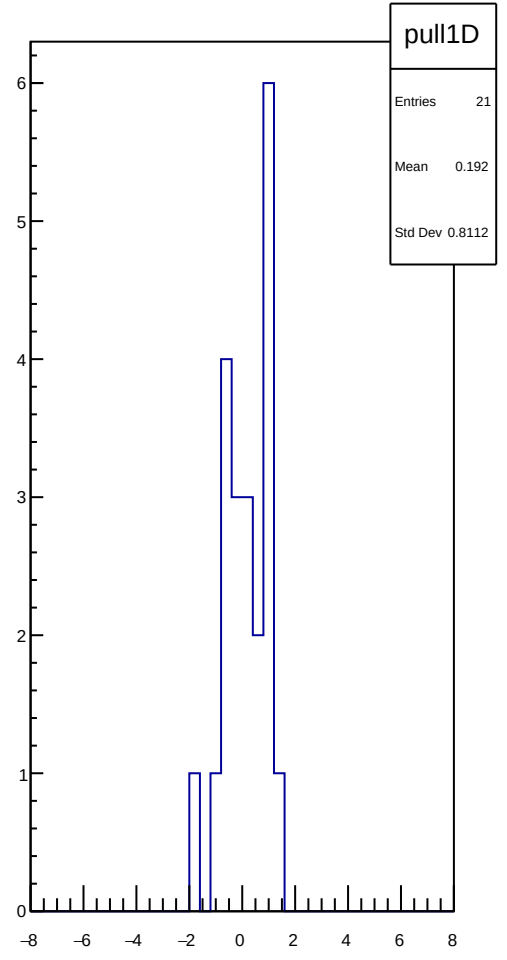

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 12.35 / 20
p0 41.64 ± 2.1
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.742
Std Dev 18.91
0.5
0
−0.5
−1
−1.5

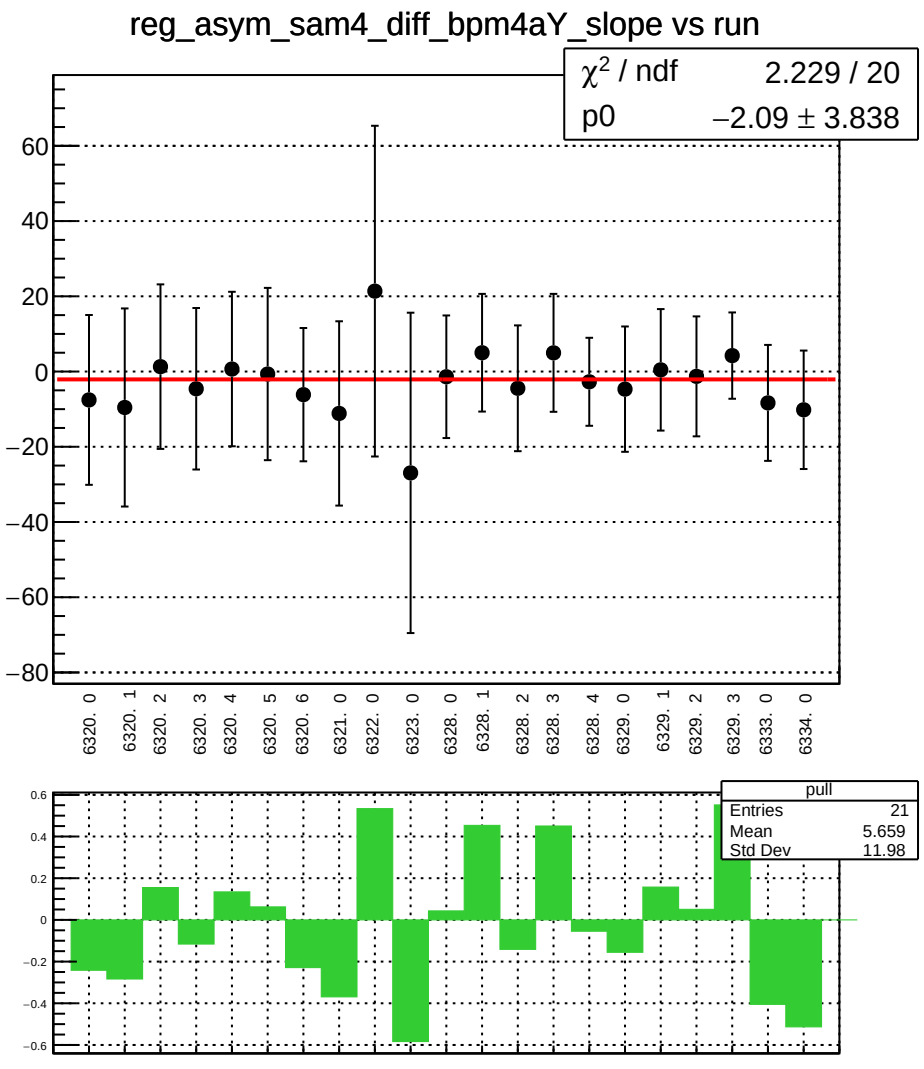

pull1D
Entries 21
Mean −0.1841
Std Dev 0.7445
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

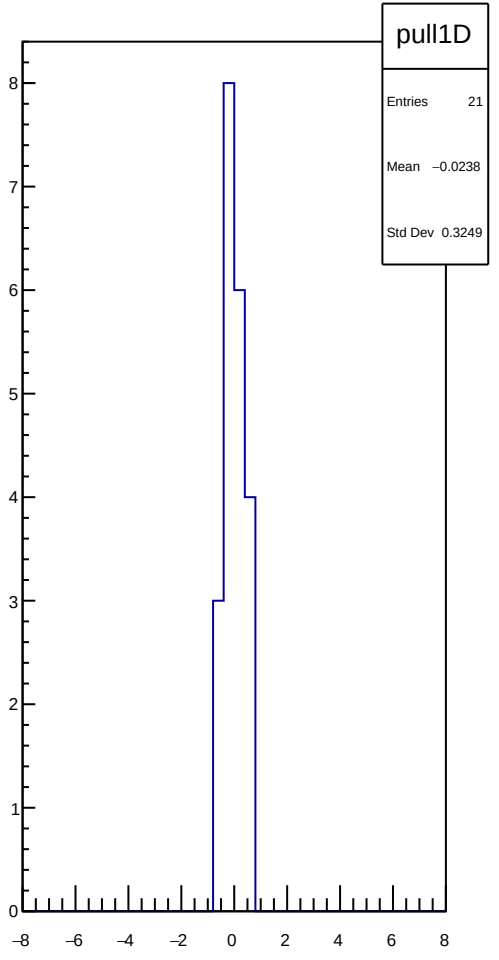

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.701 / 20
p0 0.1758 ± 0.1052
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.505
Std Dev 14.71

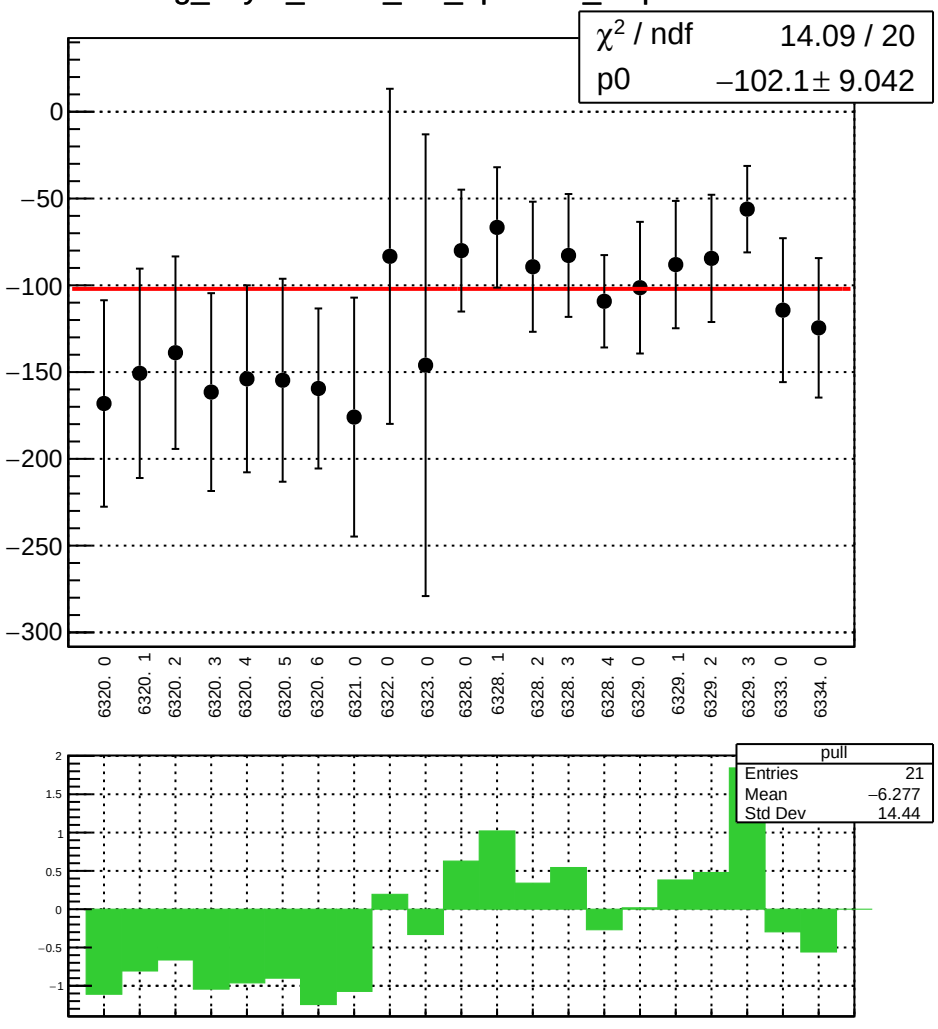

pull1D
Entries 21
Mean −0.1082
Std Dev 0.4056

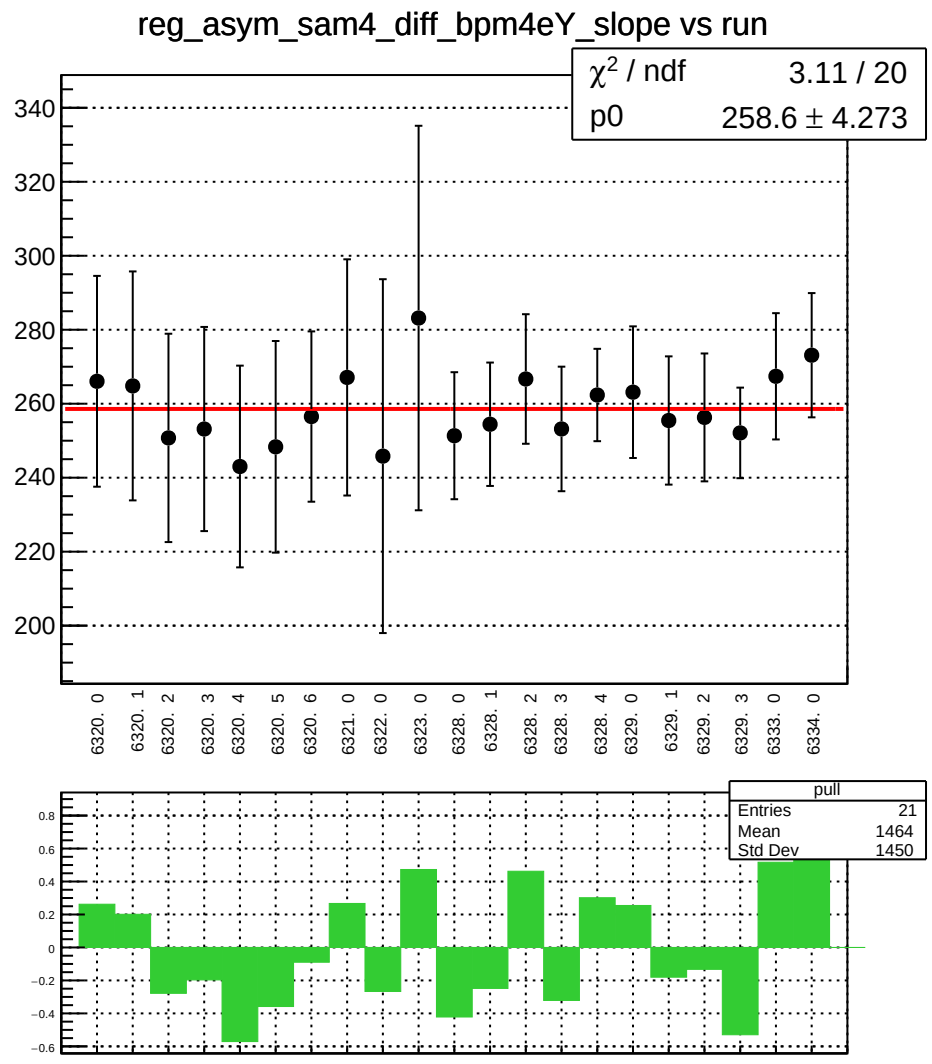

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 14.59 / 20
p0 −91.56 ± 8.31
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.791
Std Dev 14.05
1
0.5
0
−0.5
−1
−1.5
−2

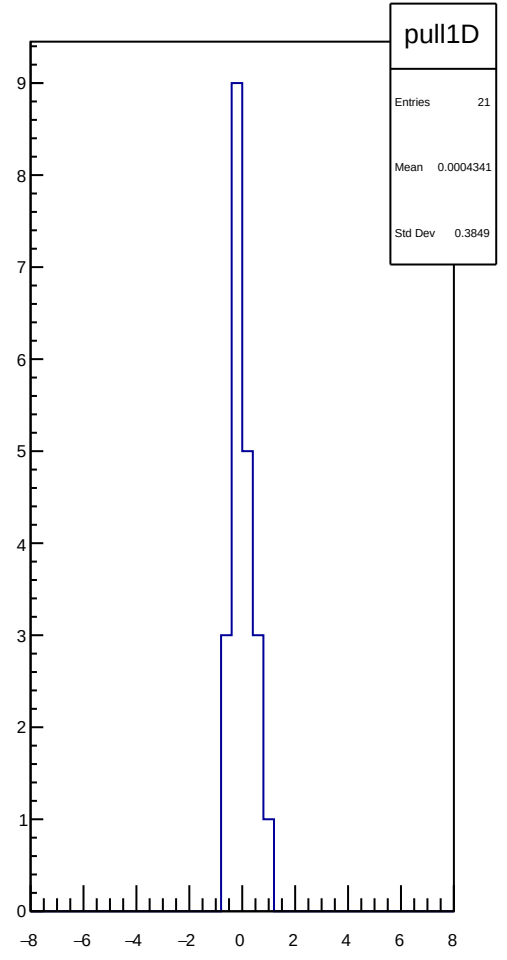

pull1D
Entries 21
Mean 0.192
Std Dev 0.8112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

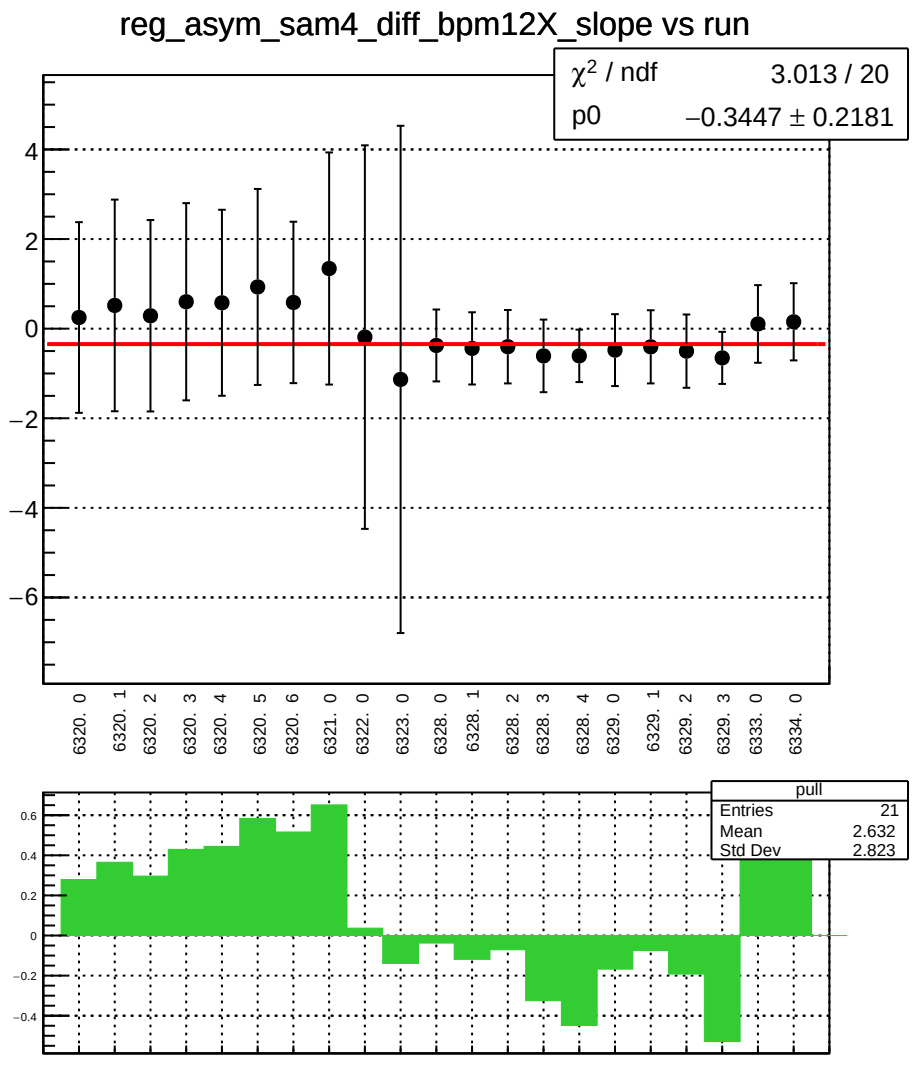

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.229 / 20
p0 −2.09 ± 3.838
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5.659
Std Dev 11.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

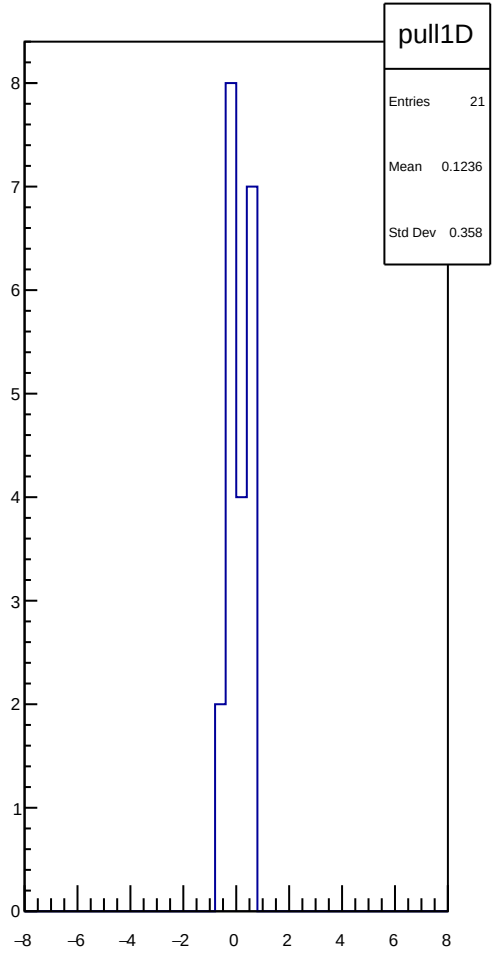

pull1D
Entries 21
Mean −0.0238
Std Dev 0.3249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

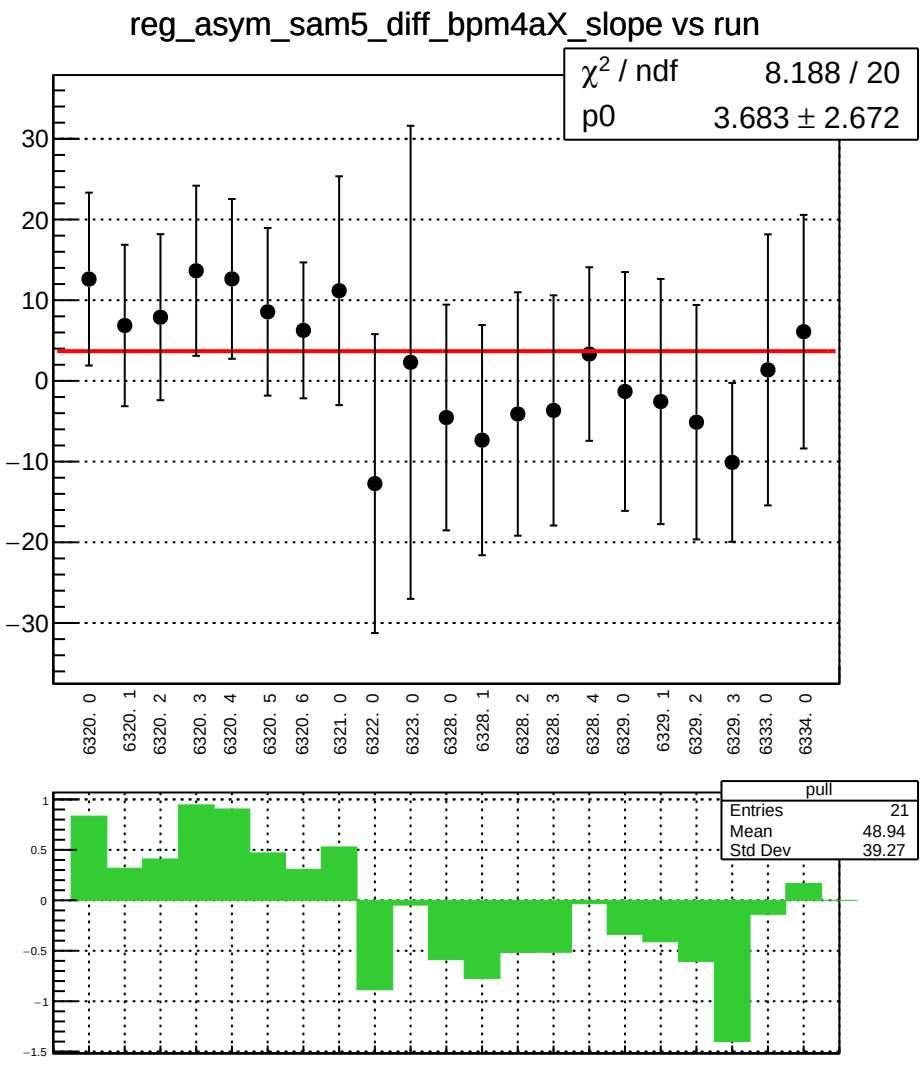

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 14.09 / 20
p0 −102.1± 9.042
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.277
Std Dev 14.44
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1813
Std Dev 0.7989
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

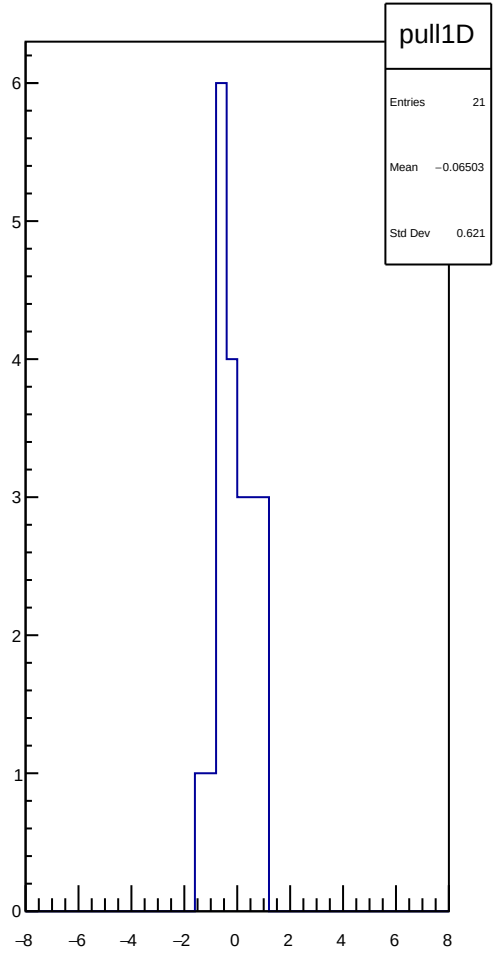

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.11 / 20
p0 258.6 ± 4.273
340
320
300
280
260
240
220
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1464
Std Dev 1450
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

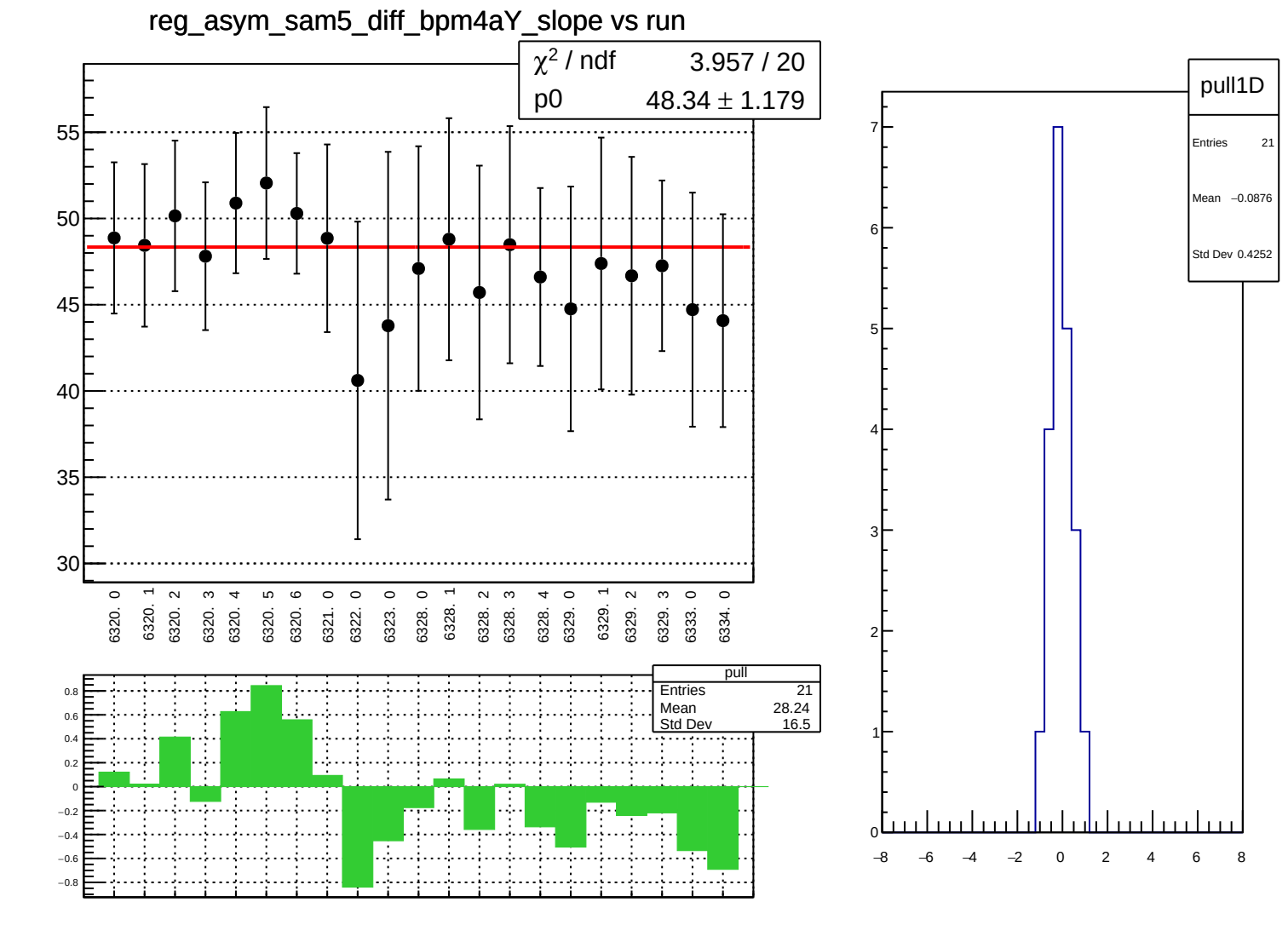

pull1D
Entries 21
Mean 0.0004341
Std Dev 0.3849
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

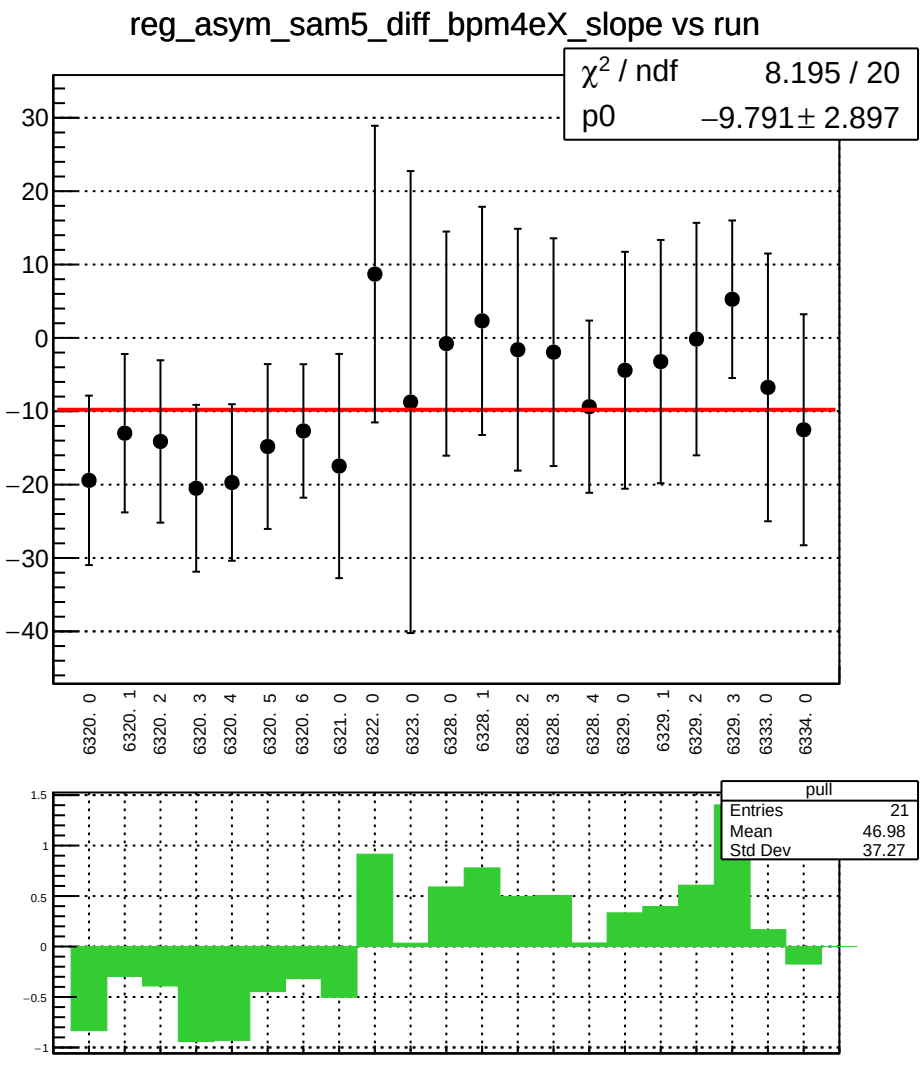

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.013 / 20
p0 −0.3447 ± 0.2181
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.632
Std Dev 2.823
0.6
0.4
0.2
0
−0.2
−0.4

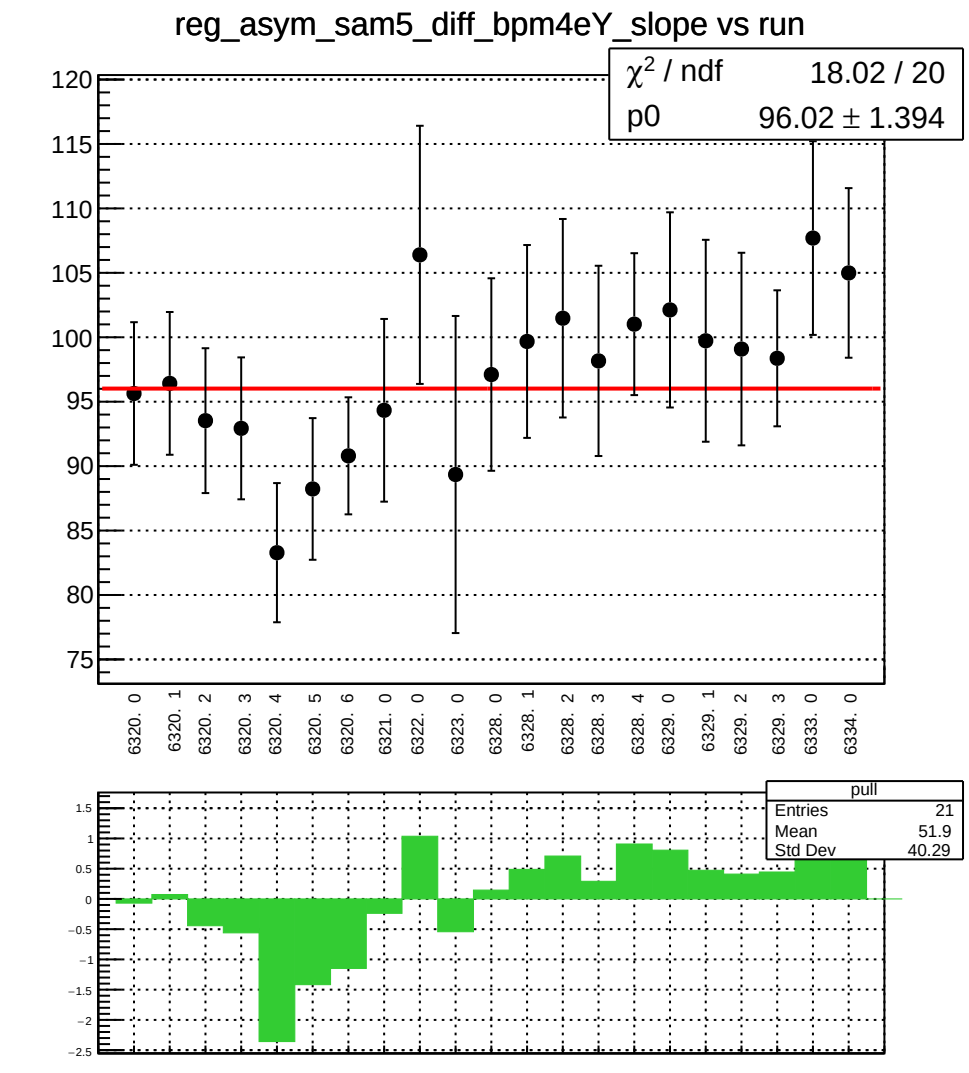

pull1D
Entries 21
Mean 0.1236
Std Dev 0.358
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

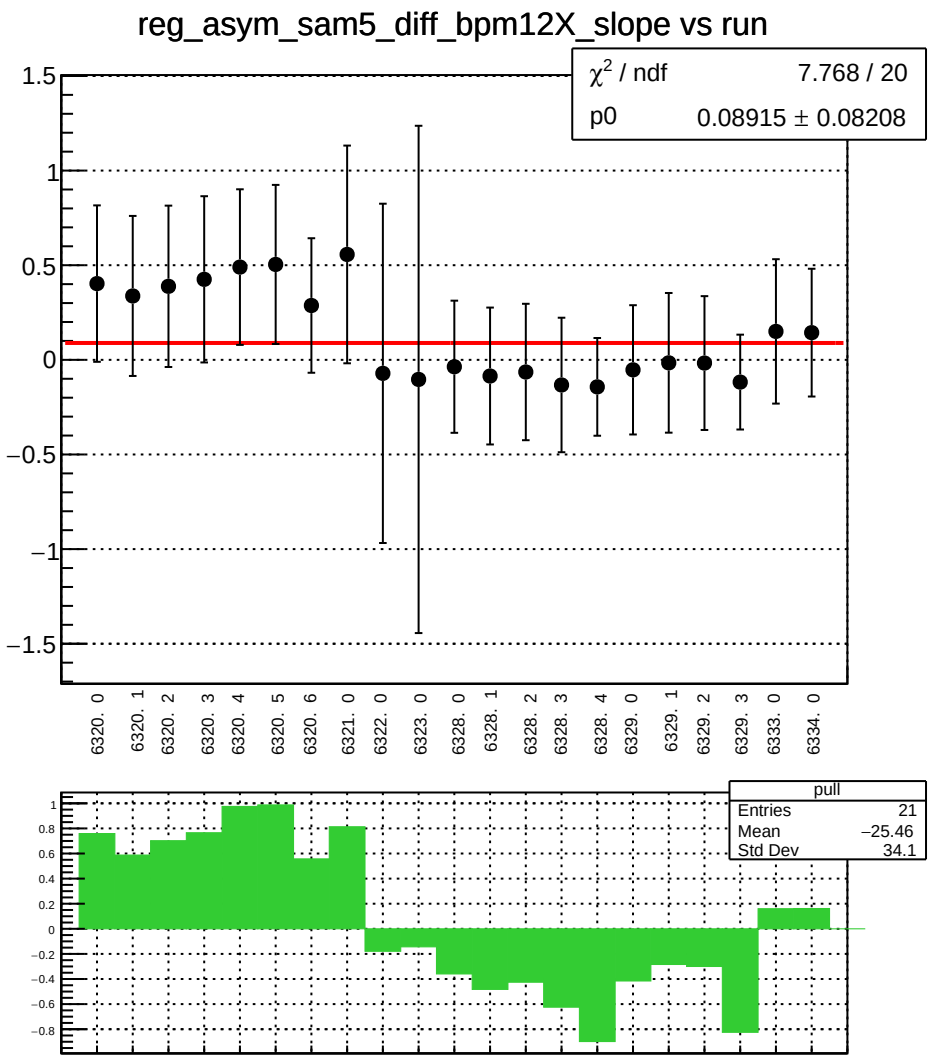

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 8.188 / 20
p0 3.683 ± 2.672
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.94
Std Dev 39.27
1
0.5
0
−0.5
−1
−1.5

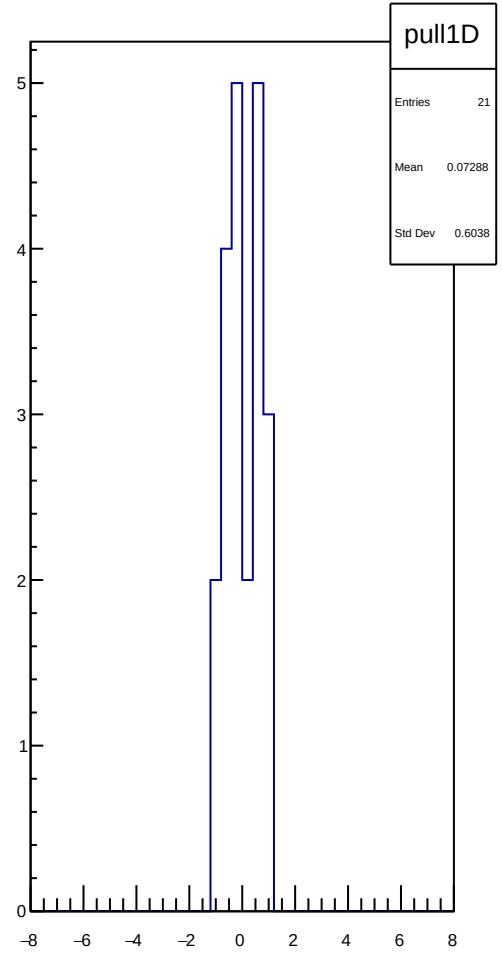

pull1D
Entries 21
Mean −0.06503
Std Dev 0.621
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

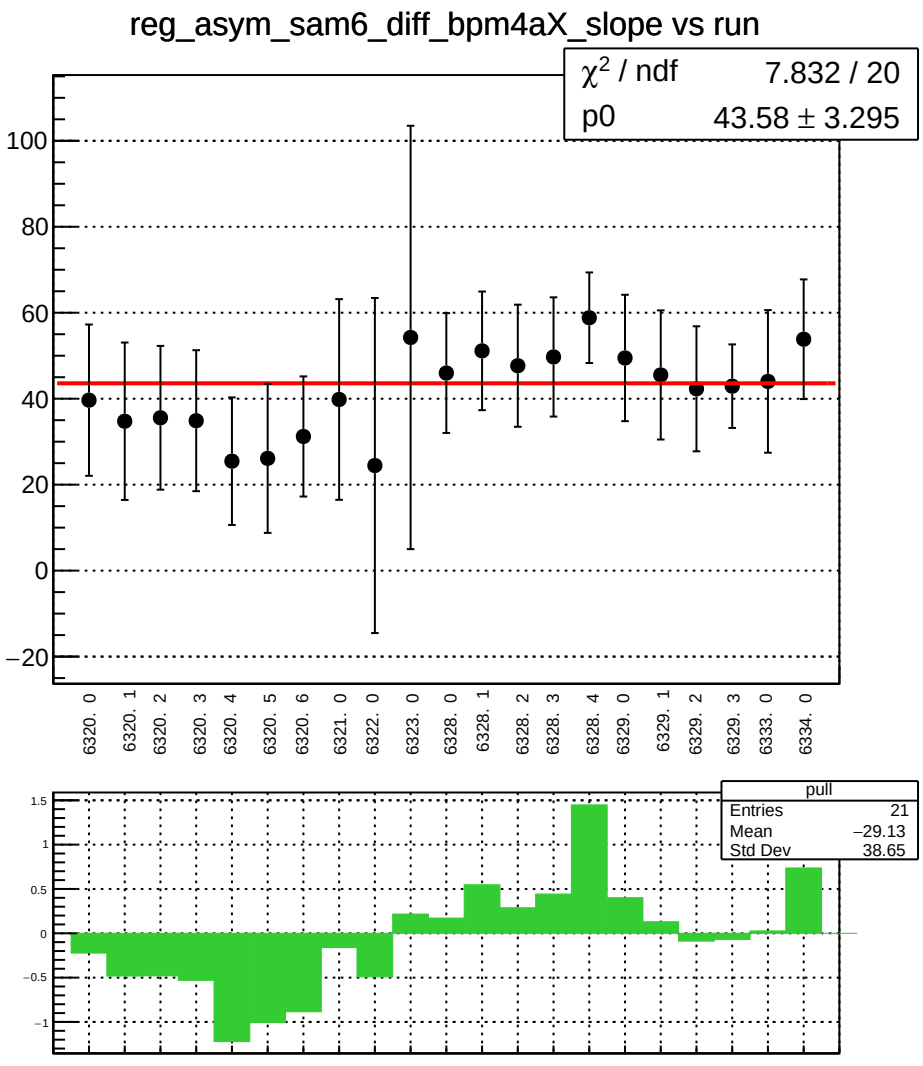

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.957 / 20
p0 48.34 ± 1.179
55
50
45
40
35
30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.24
Std Dev 16.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.0876
Std Dev 0.4252
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

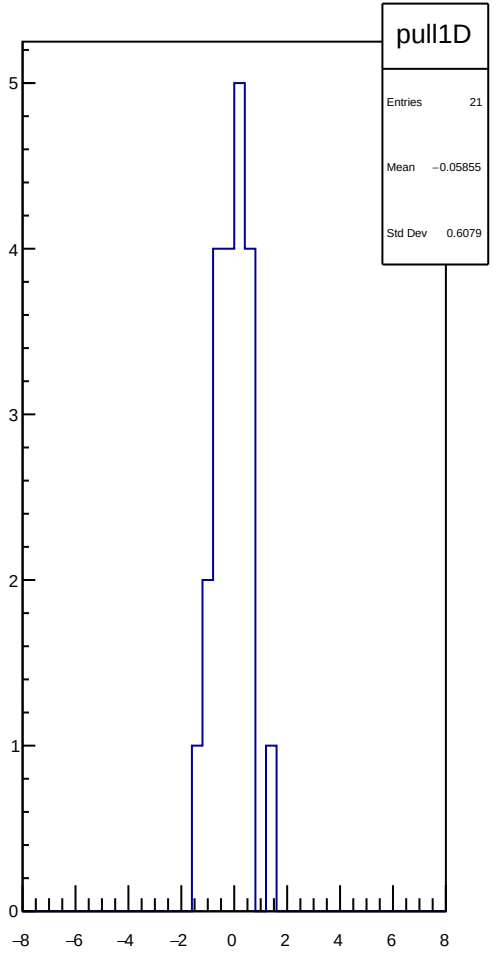

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 8.195 / 20
p0 −9.791 ± 2.897
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.98
Std Dev 37.27
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.06807
Std Dev 0.621
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

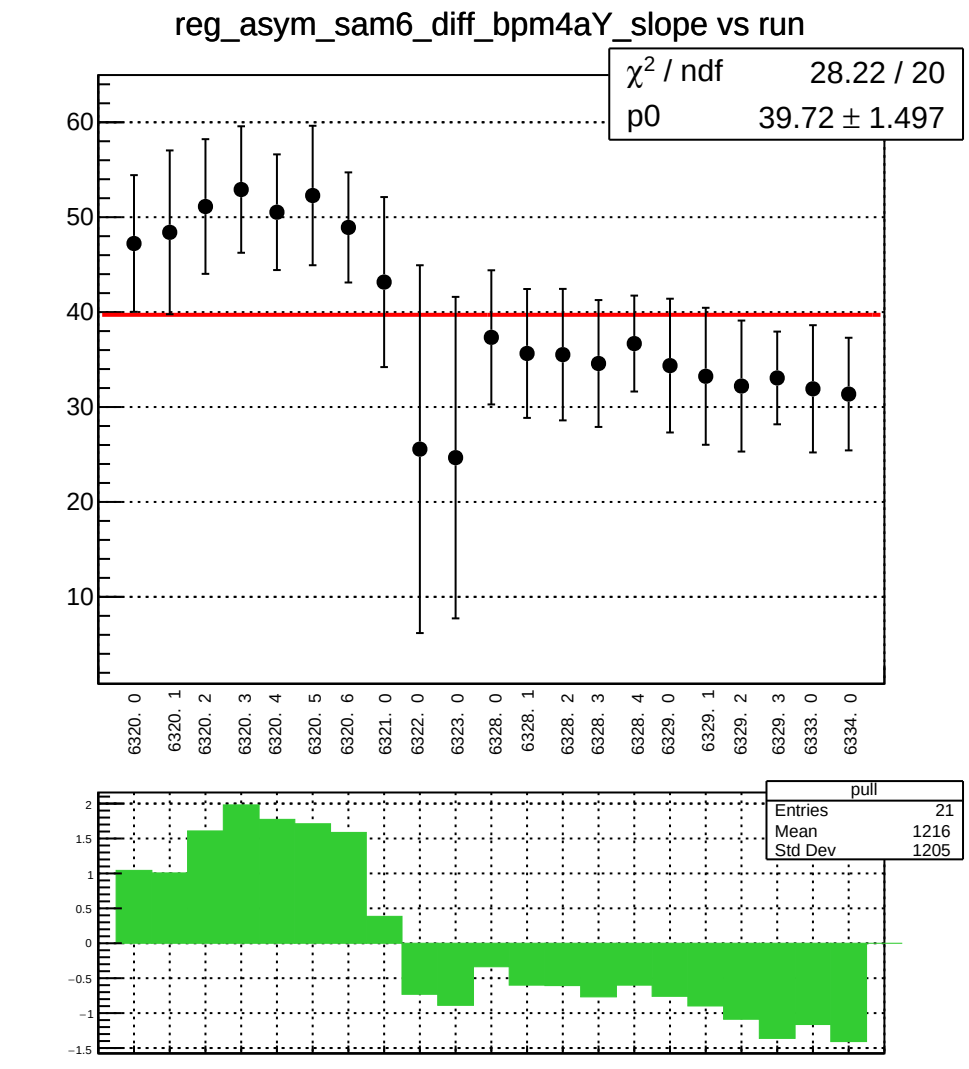

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 18.02 / 20
p0 96.02 ± 1.394
120
115
110
105
100
95
90
85
80
75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 51.9
Std Dev 40.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean 0.09186
Std Dev 0.9218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

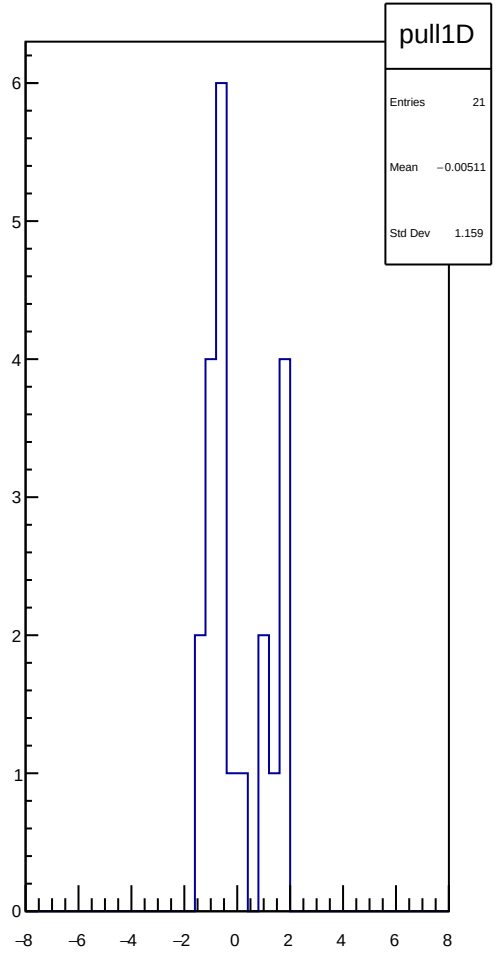

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 7.768 / 20
p0 0.08915 ± 0.08208
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.46
Std Dev 34.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

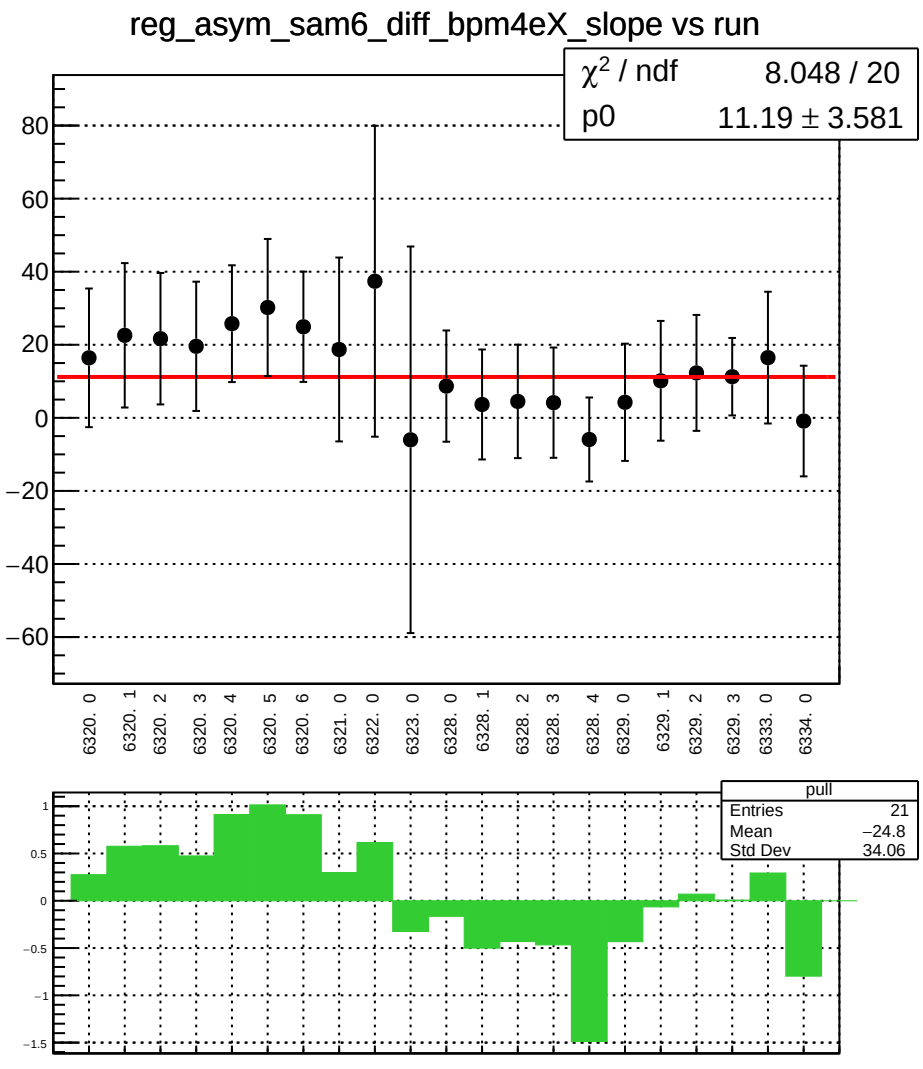

pull1D
Entries 21
Mean 0.07288
Std Dev 0.6038
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

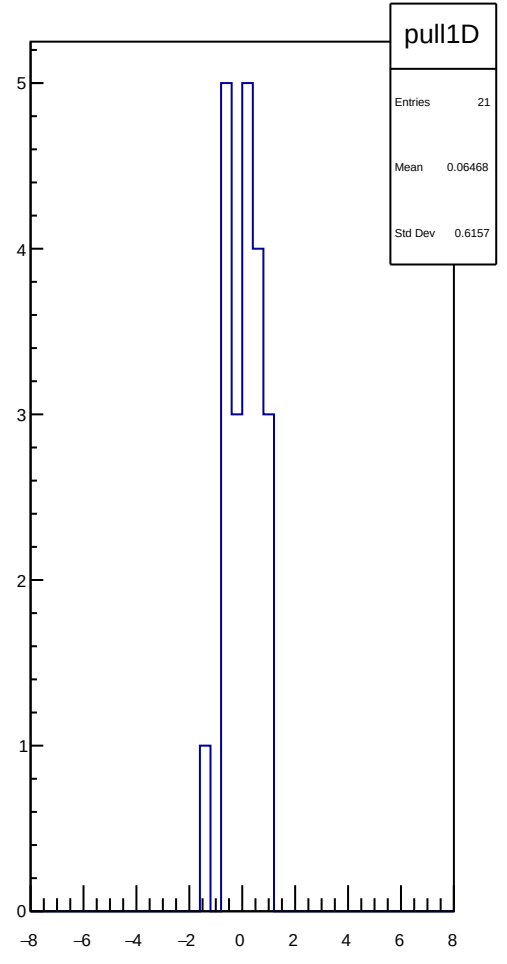

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 7.832 / 20
p0 43.58 ± 3.295
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.13
Std Dev 38.65
1.5
1
0.5
0
−0.5
−1

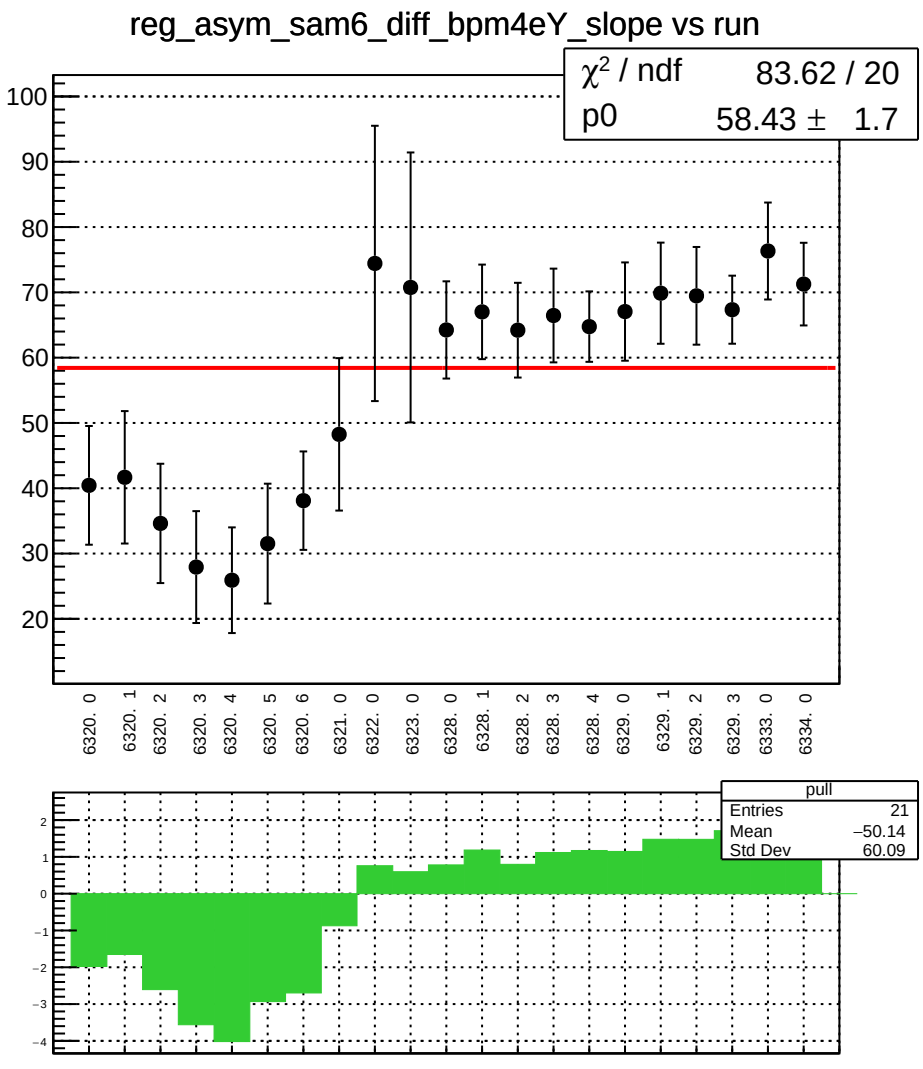

pull1D
Entries 21
Mean −0.05855
Std Dev 0.6079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

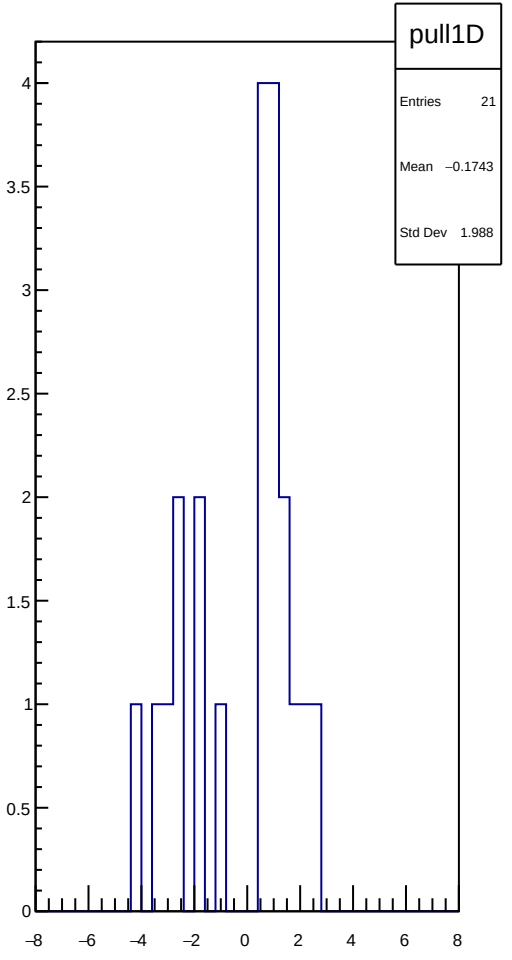

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 28.22 / 20
p0 39.72 ± 1.497
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1216
Std Dev 1205
2
1.5
1
0.5
0
−0.5
−1
−1.5

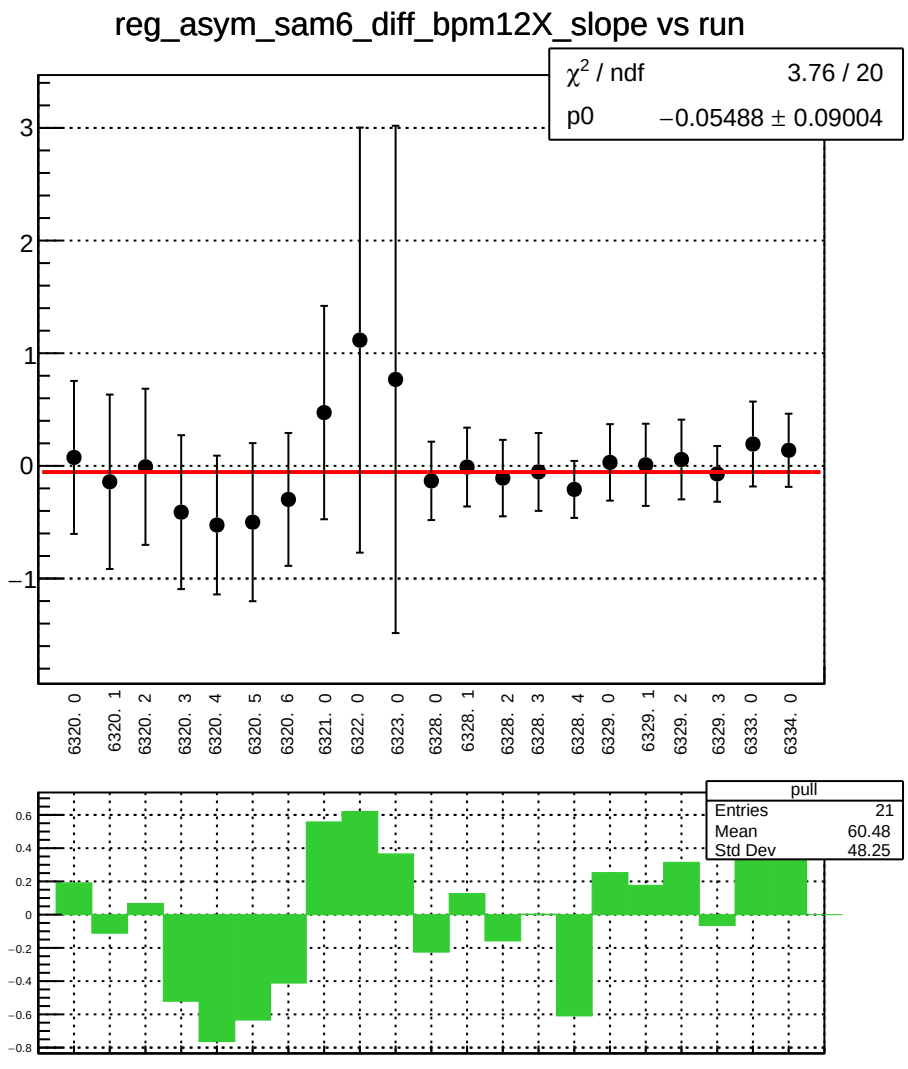

pull1D
Entries 21
Mean −0.00511
Std Dev 1.159
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

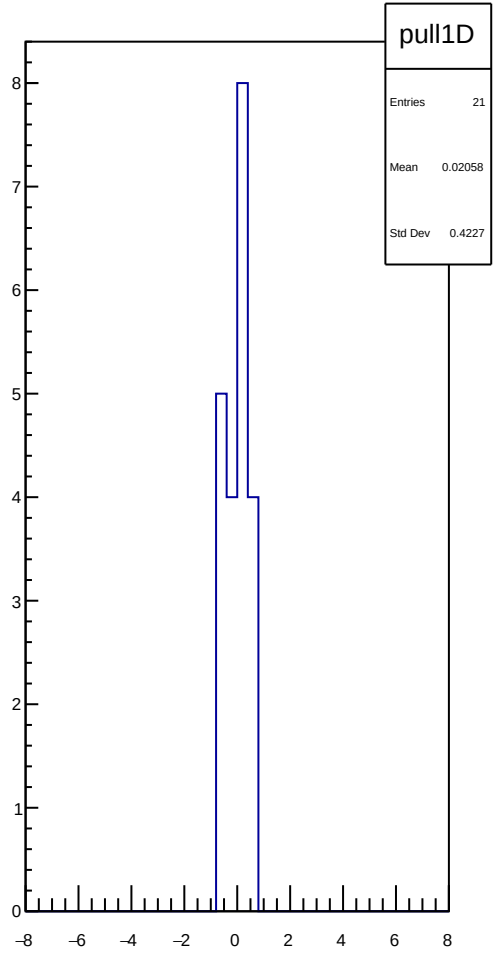

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.048 / 20
p0 11.19 ± 3.581
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −24.8
Std Dev 34.06
1
0.5
0
−0.5
−1
−1.5

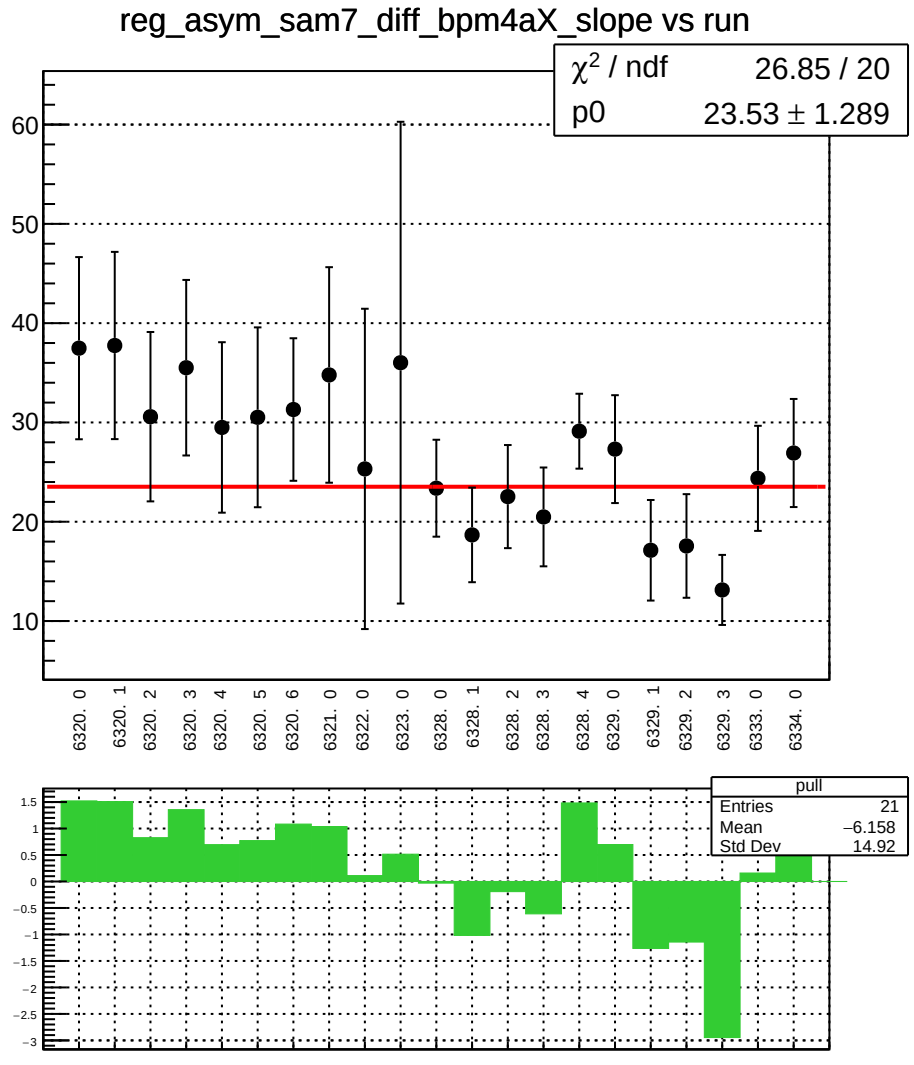

pull1D
Entries 21
Mean 0.06468
Std Dev 0.6157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

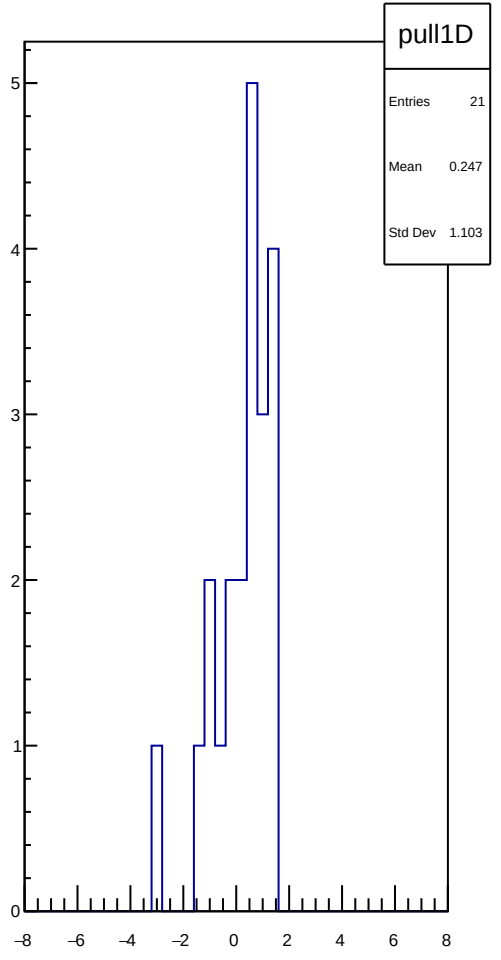

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 83.62 / 20
p0 58.43 ± 1.7
100
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −50.14
Std Dev 60.09
2
1
0
−1
−2
−3
−4

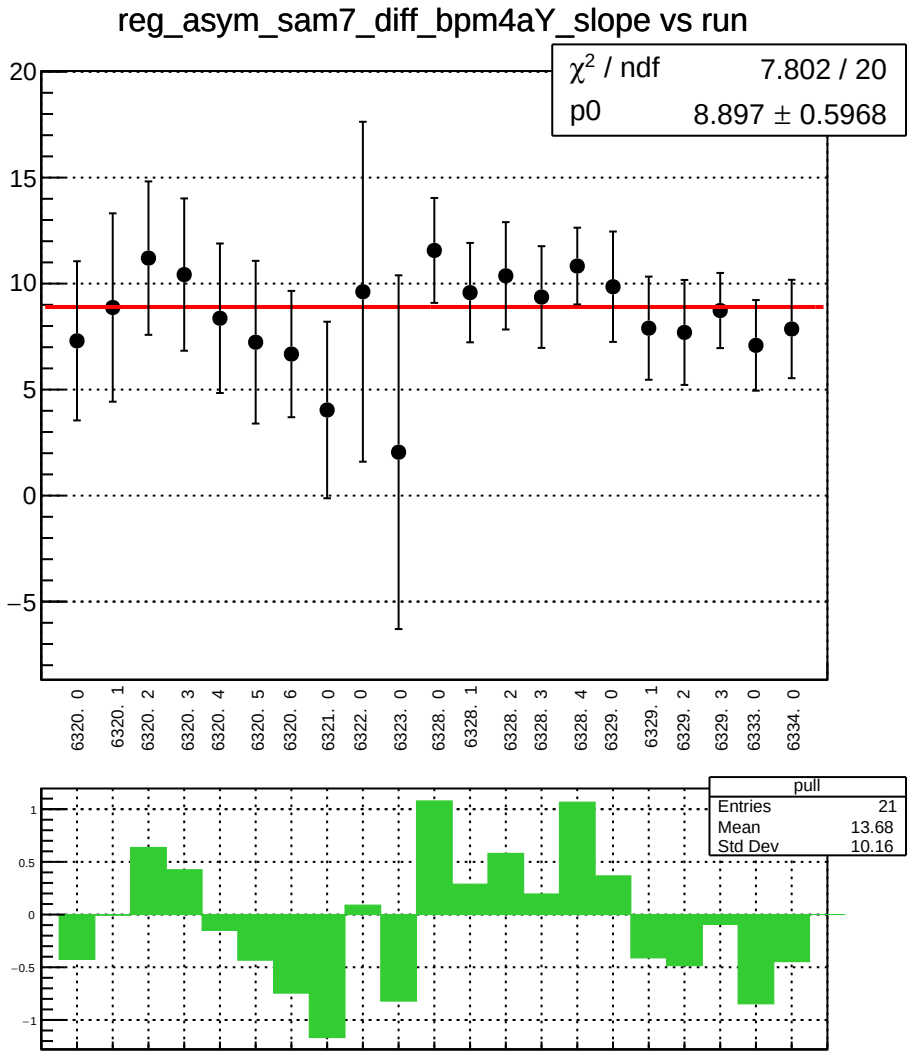

pull1D
Entries 21
Mean −0.1743
Std Dev 1.988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

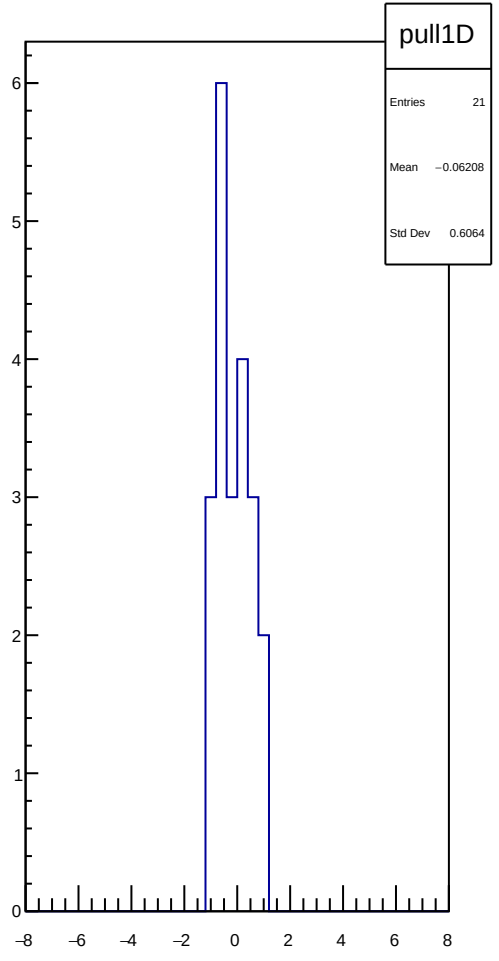

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.76 / 20
p0 −0.05488 ± 0.09004
3
2
1
0
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 60.48
Std Dev 48.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

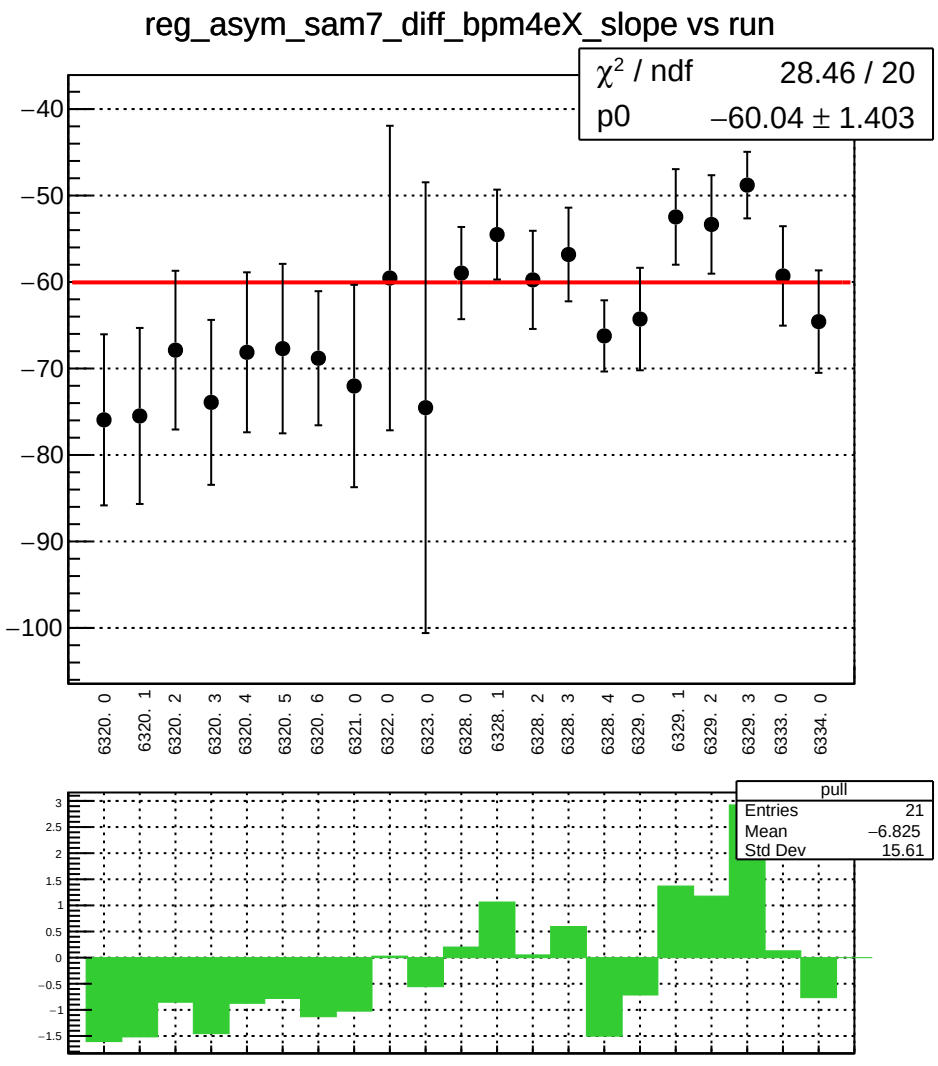

pull1D
Entries 21
Mean 0.02058
Std Dev 0.4227
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

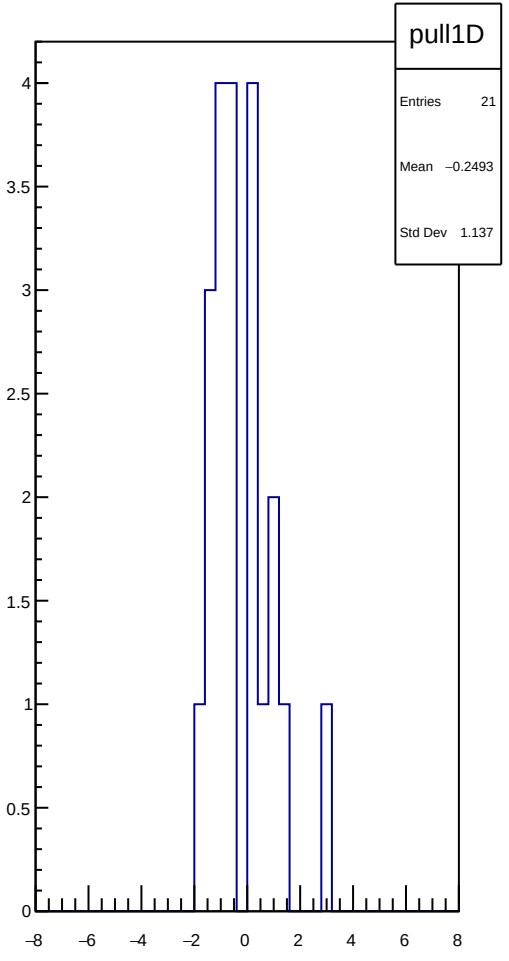

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 26.85 / 20
p0 23.53 ± 1.289
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.158
Std Dev 14.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

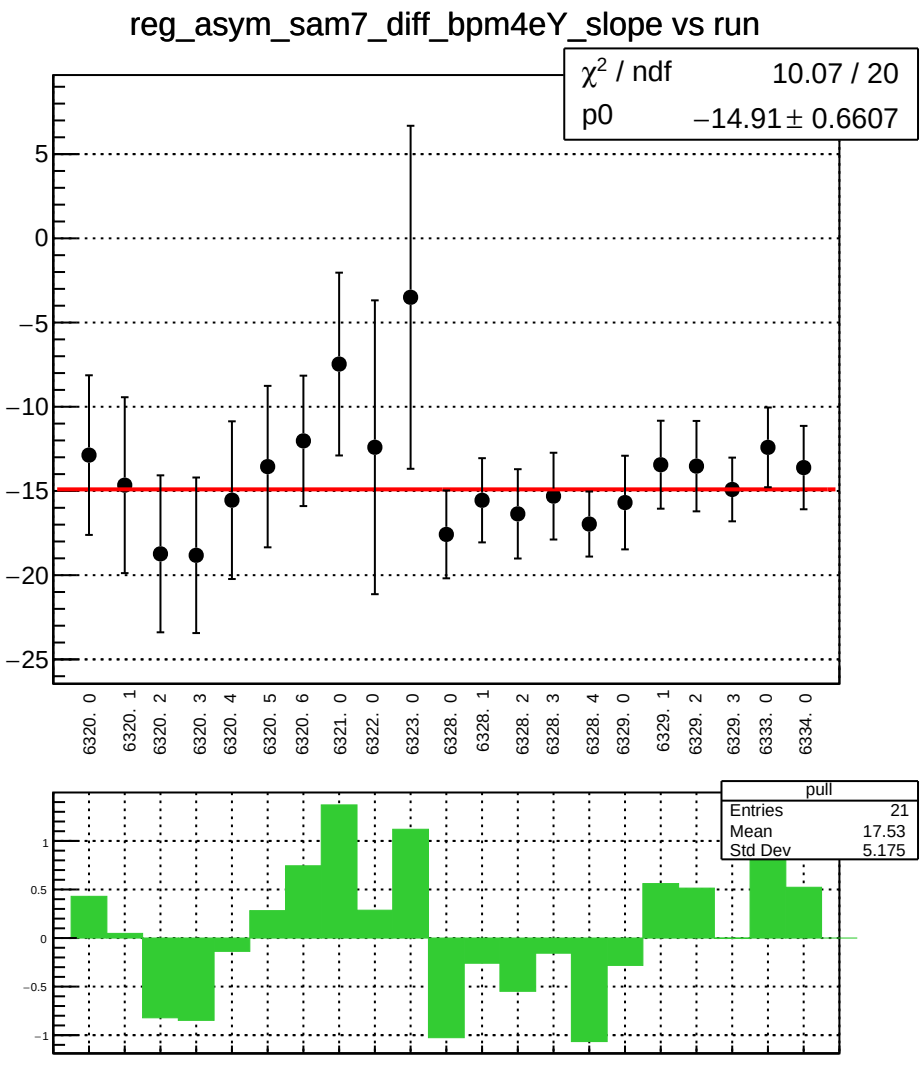

pull1D
Entries 21
Mean 0.247
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

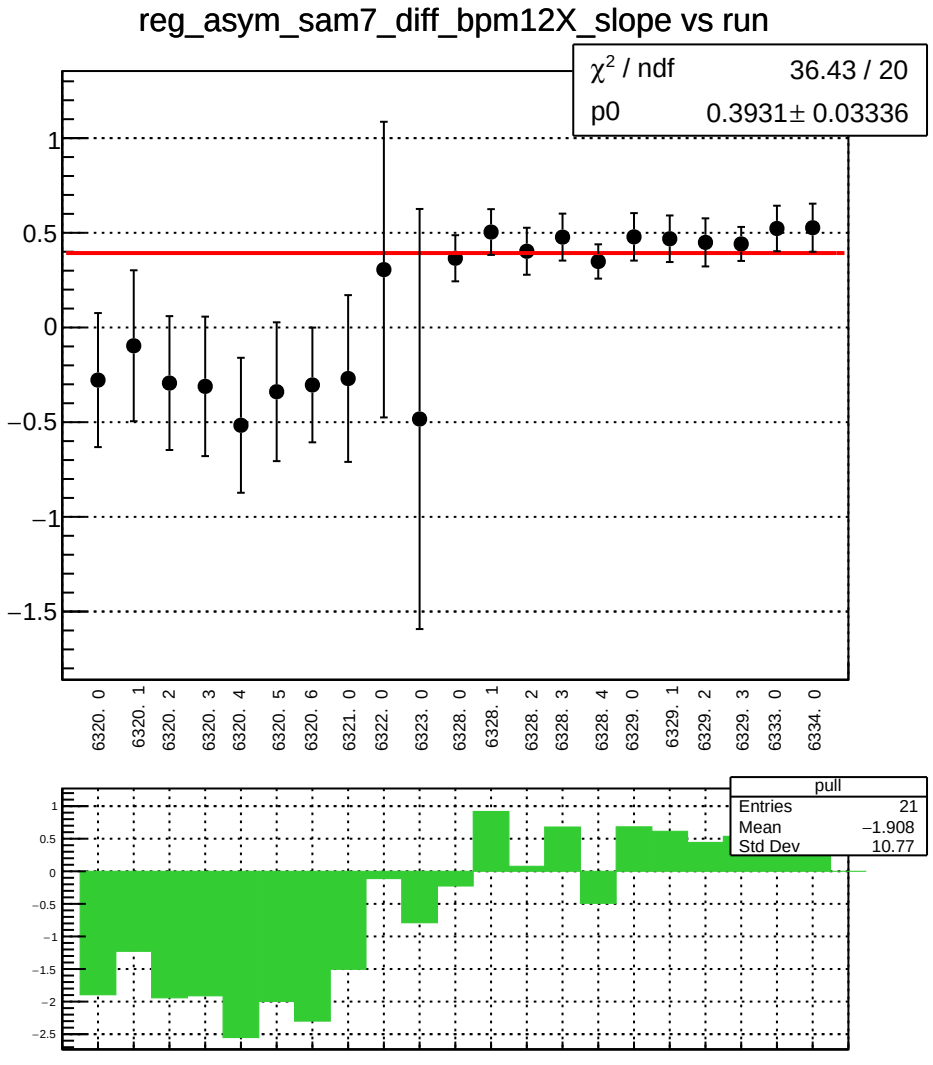

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 7.802 / 20
p0 8.897 ± 0.5968
20
15
10
5
0
−5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 13.68
Std Dev 10.16
1
0.5
0
−0.5
−1

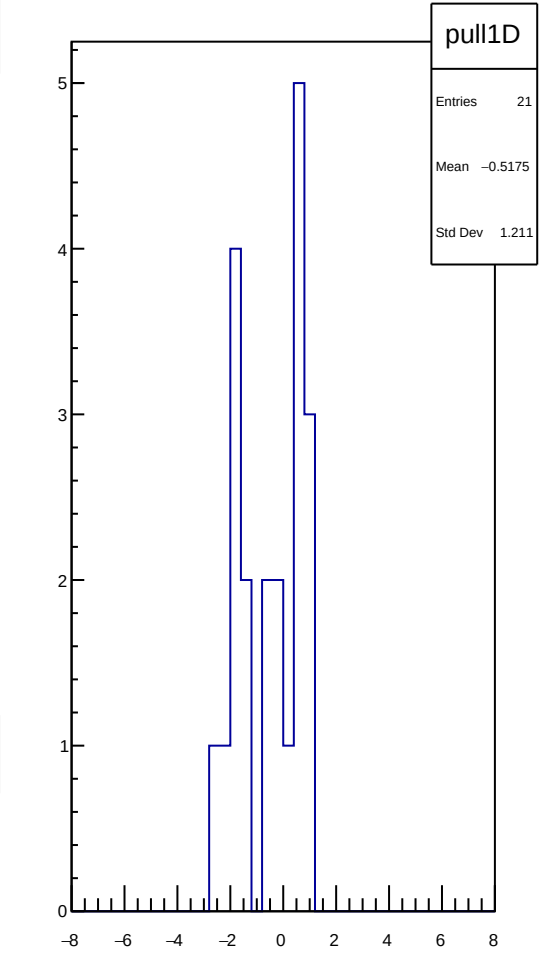

pull1D
Entries 21
Mean −0.06208
Std Dev 0.6064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

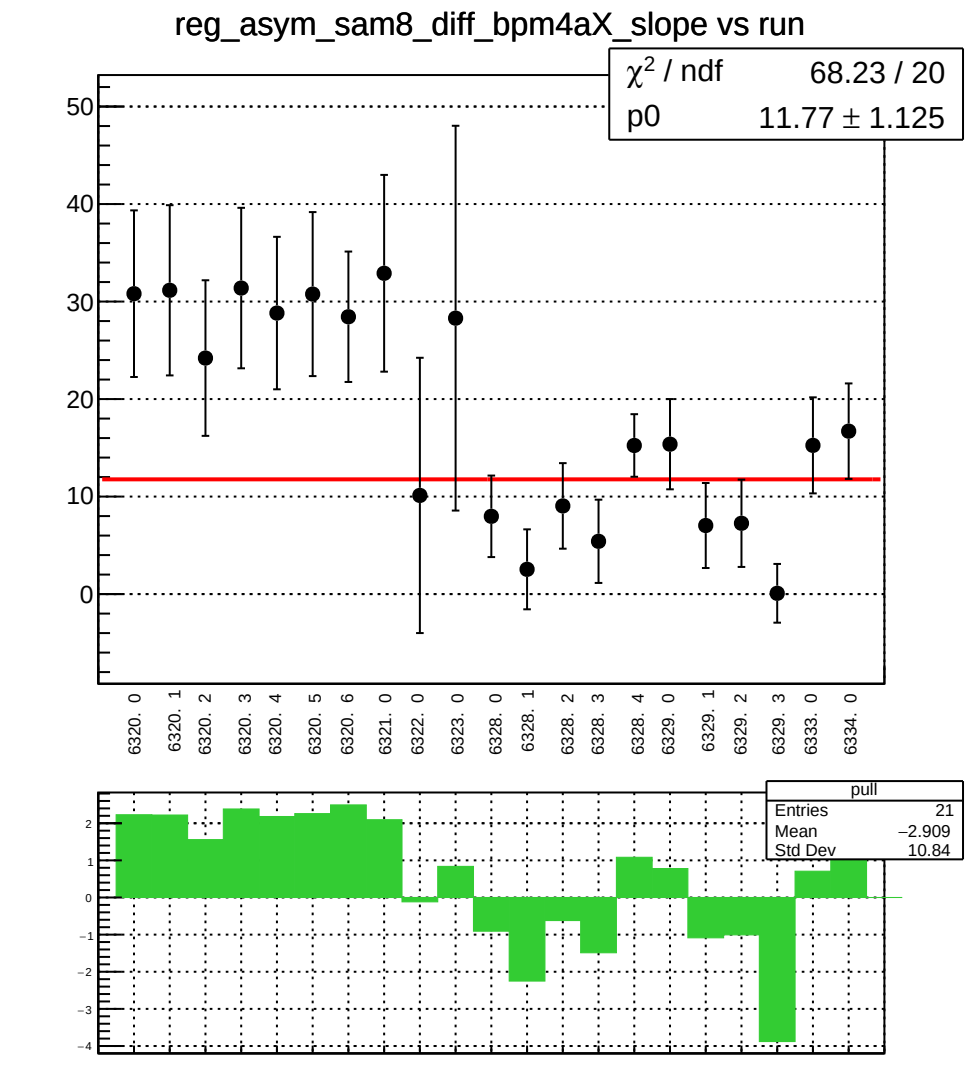

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 28.46 / 20
p0 −60.04 ± 1.403
−40
−50
−60
−70
−80
−90
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.825
Std Dev 15.61
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

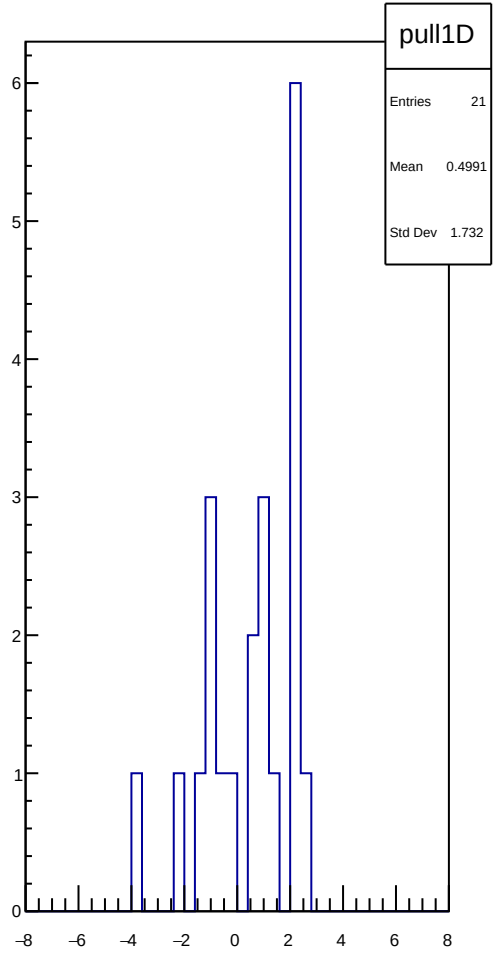

pull1D
Entries 21
Mean −0.2493
Std Dev 1.137
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

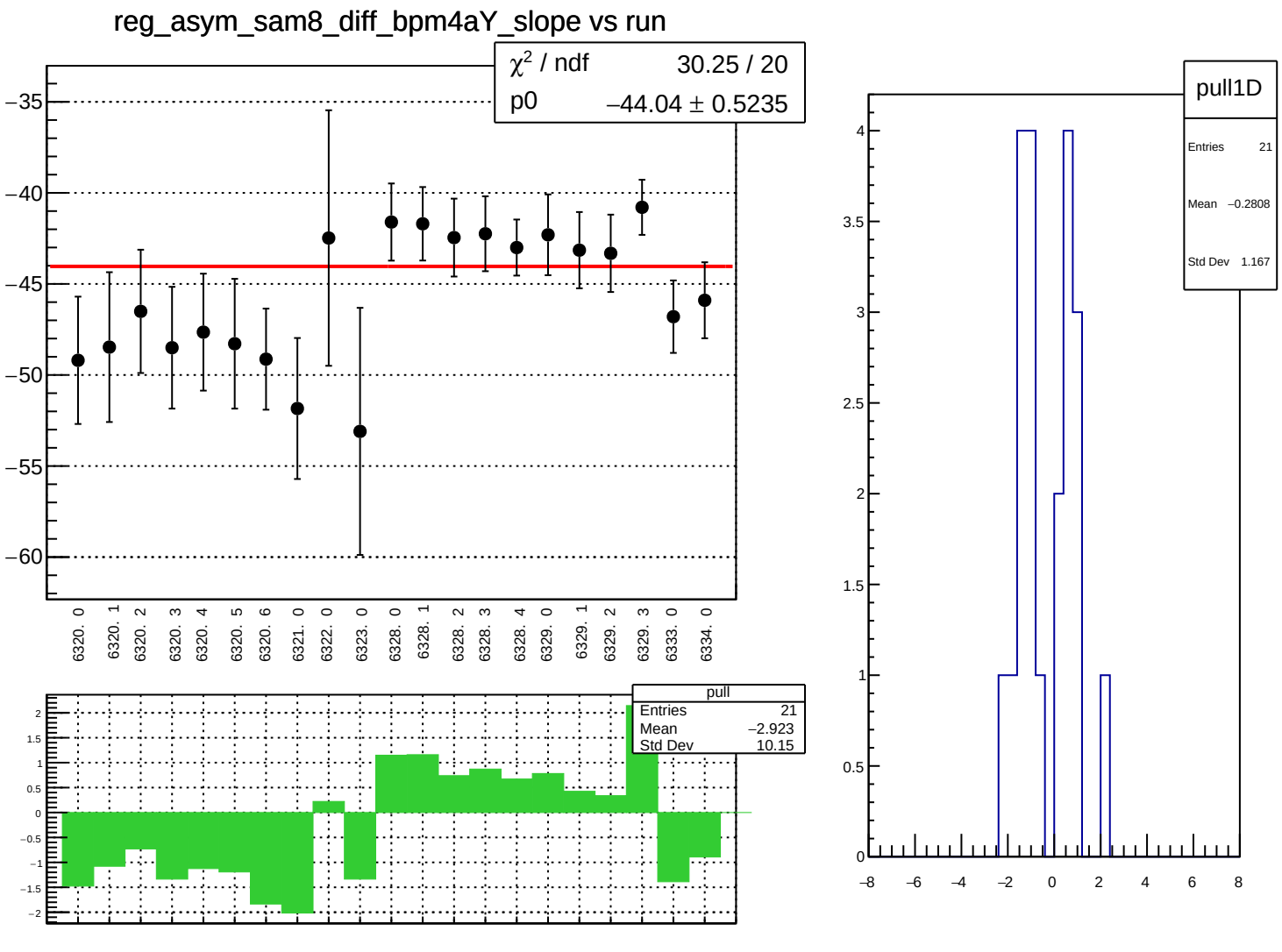

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 10.07 / 20
p0 −14.91 ± 0.6607
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.53
Std Dev 5.175
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.08501
Std Dev 0.6872
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

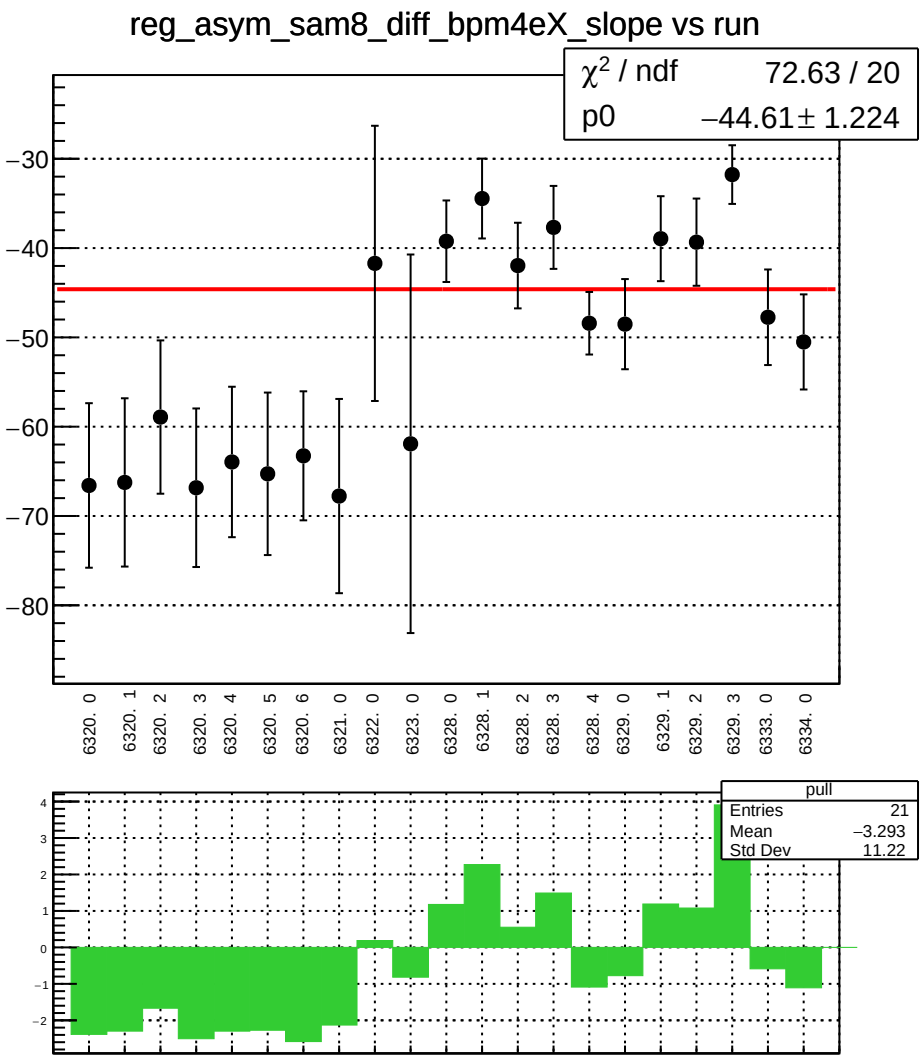

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 36.43 / 20
p0 0.3931± 0.03336
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.908
Std Dev 10.77
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

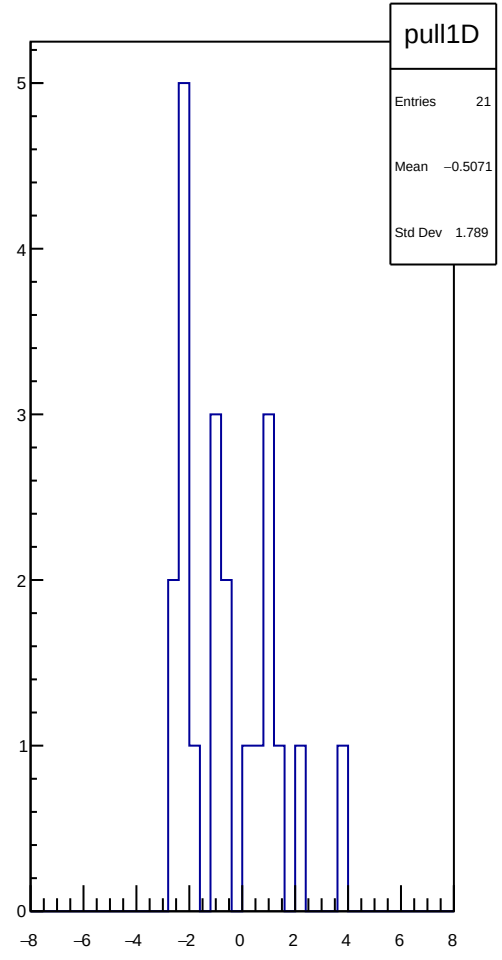

pull1D
Entries 21
Mean −0.5175
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

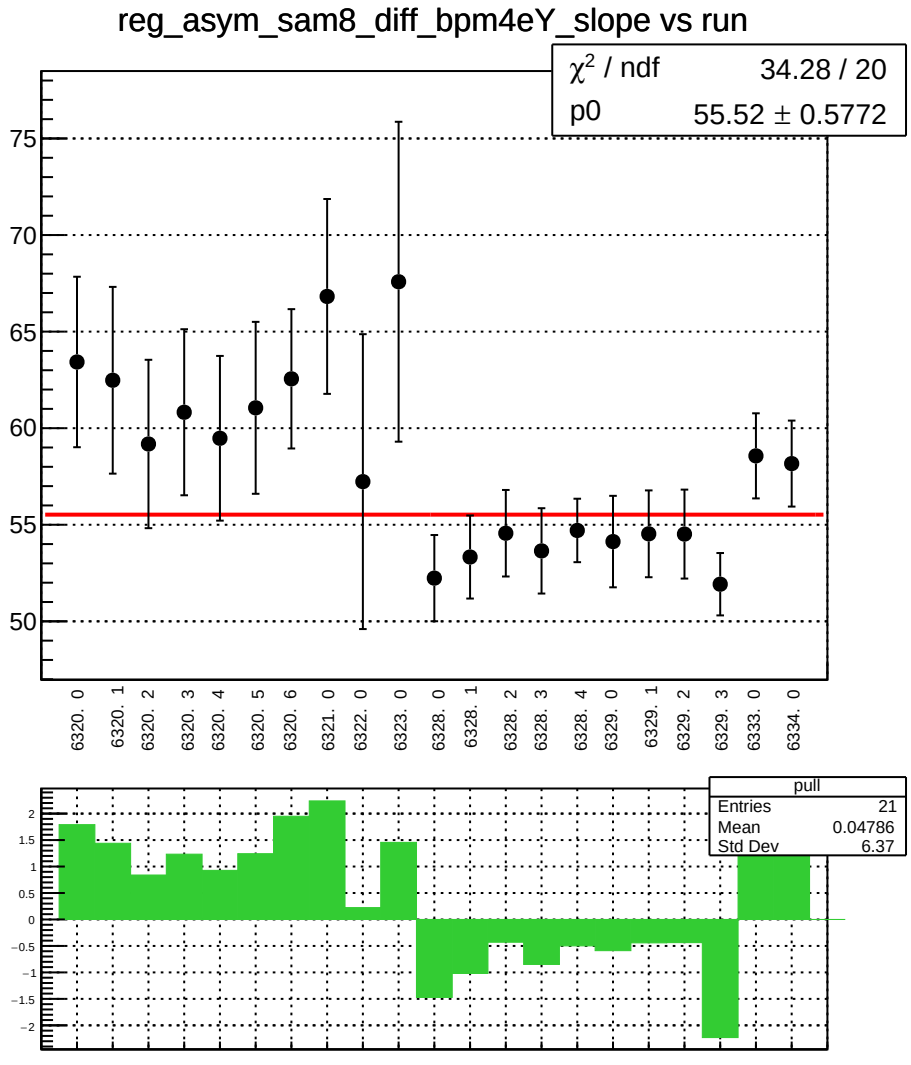

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 68.23 / 20
p0 11.77 ± 1.125
50
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.909
Std Dev 10.84
2
1
0
−1
−2
−3
−4

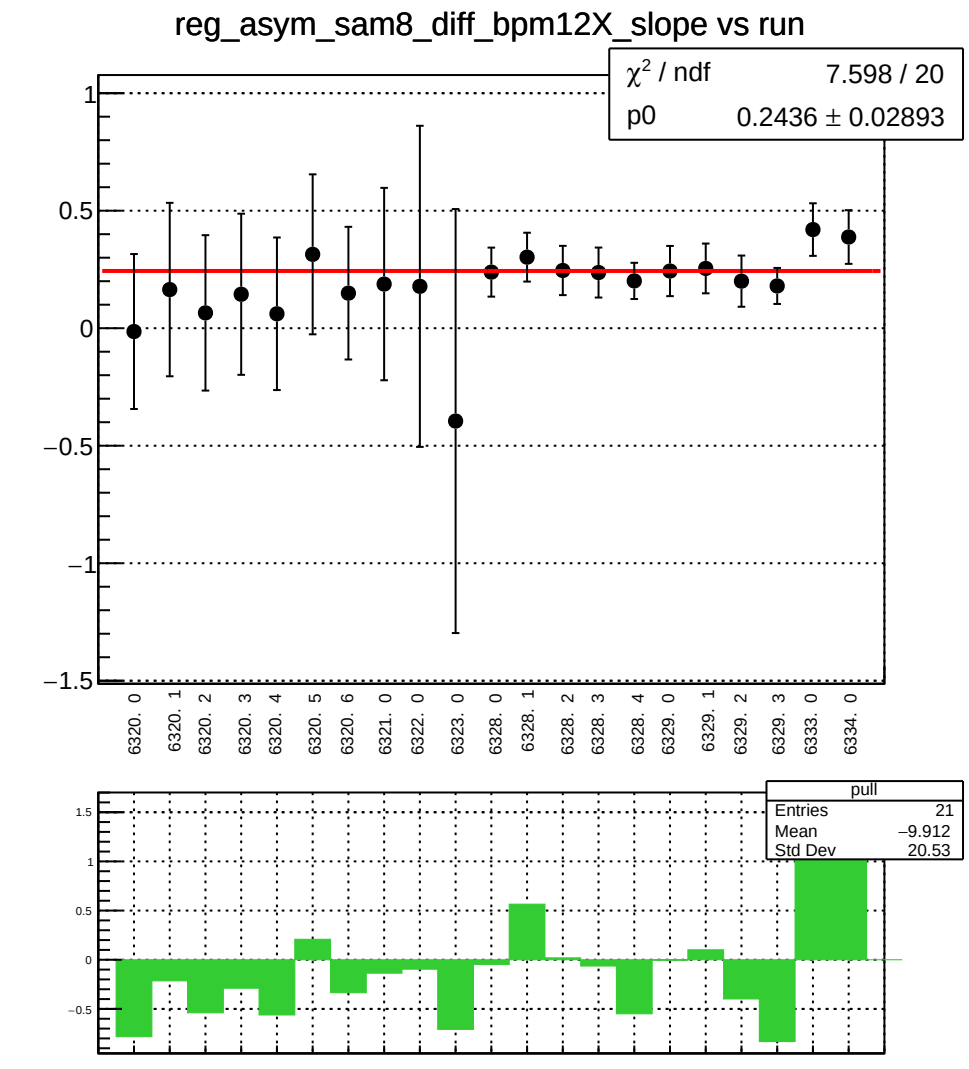

pull1D
Entries 21
Mean 0.4991
Std Dev 1.732
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

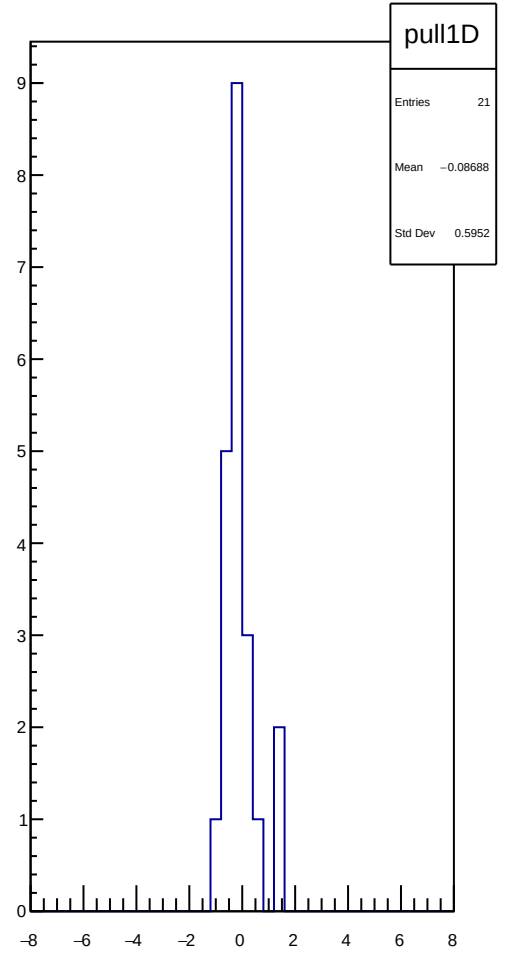

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 30.25 / 20
p0 −44.04 ± 0.5235
−35
−40
−45
−50
−55
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.923
Std Dev 10.15
pull1D
Entries 21
Mean −0.2808
Std Dev 1.167

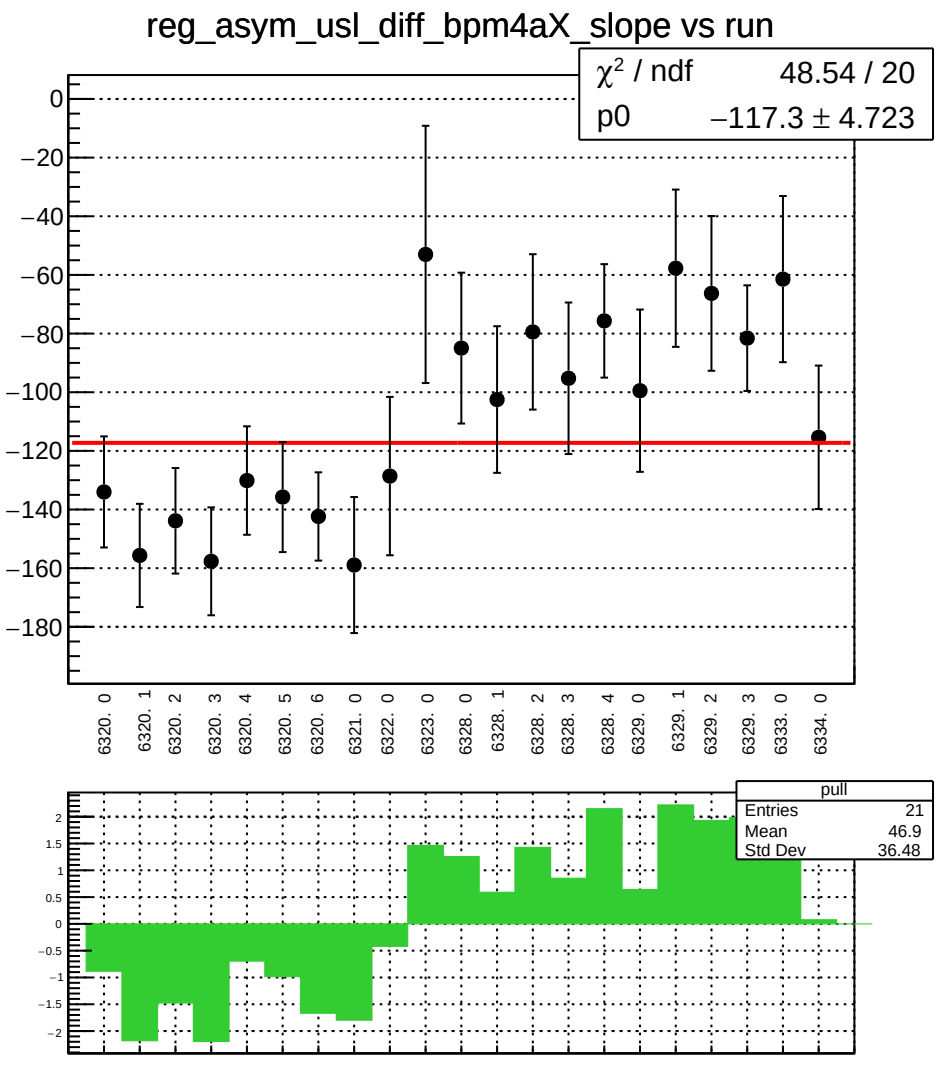

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 72.63 / 20
p0 −44.61± 1.224
−30
−40
−50
−60
−70
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.293
Std Dev 11.22
4
3
2
1
0
−1
−2

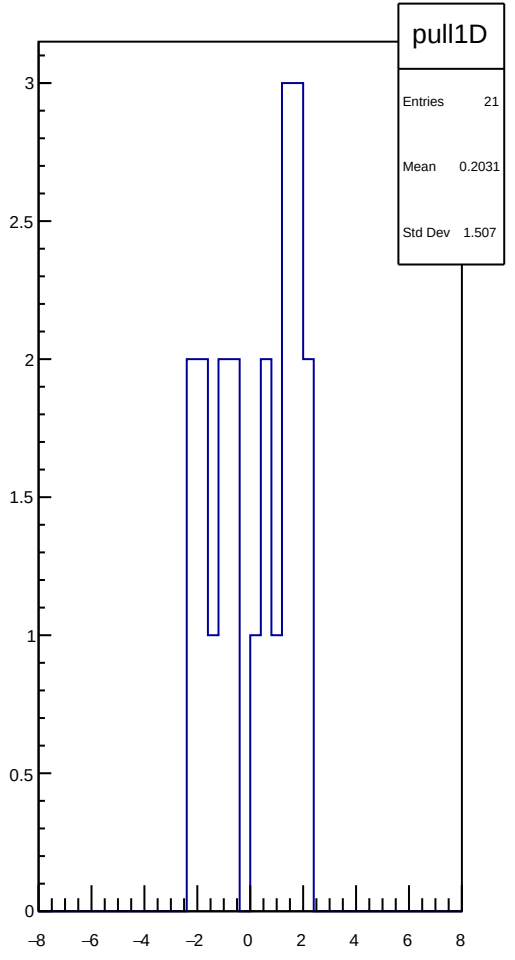

pull1D
Entries 21
Mean −0.5071
Std Dev 1.789
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

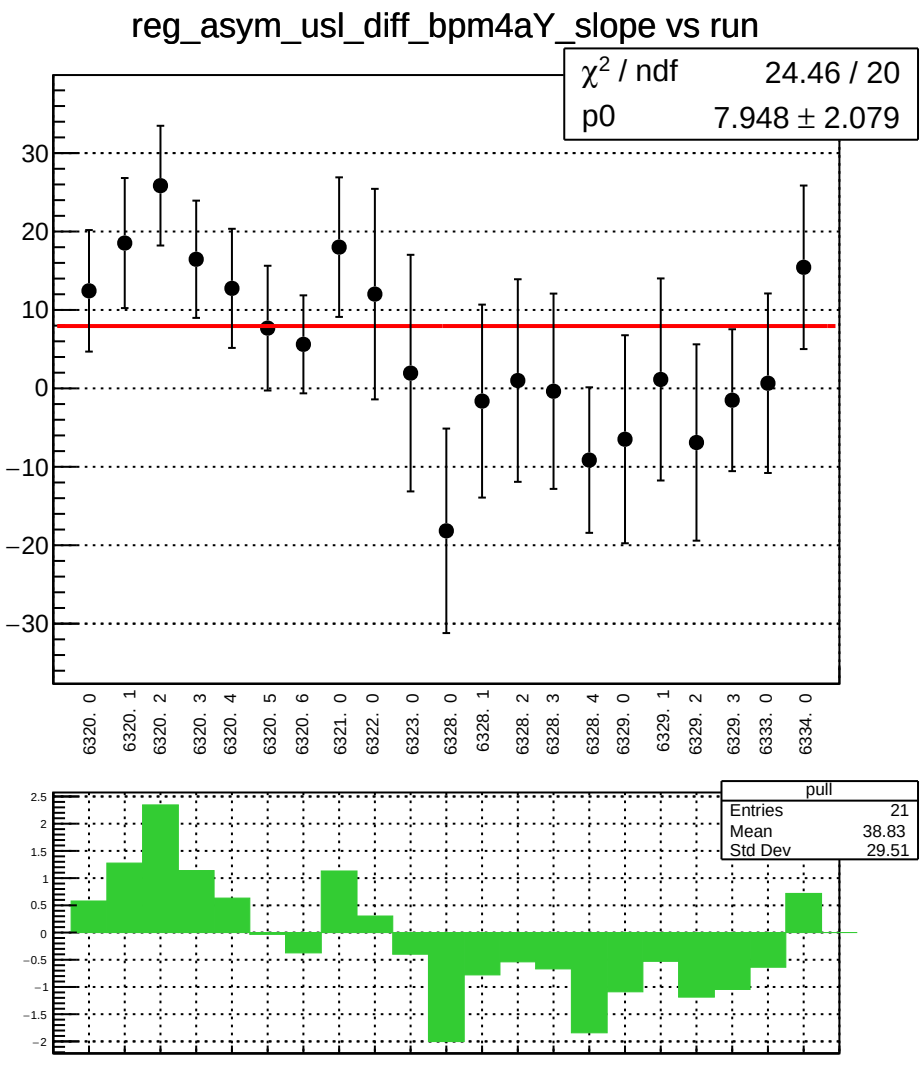

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 34.28 / 20
p0 55.52 ± 0.5772
75
70
65
60
55
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.04786
Std Dev 6.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.3782
Std Dev 1.22
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

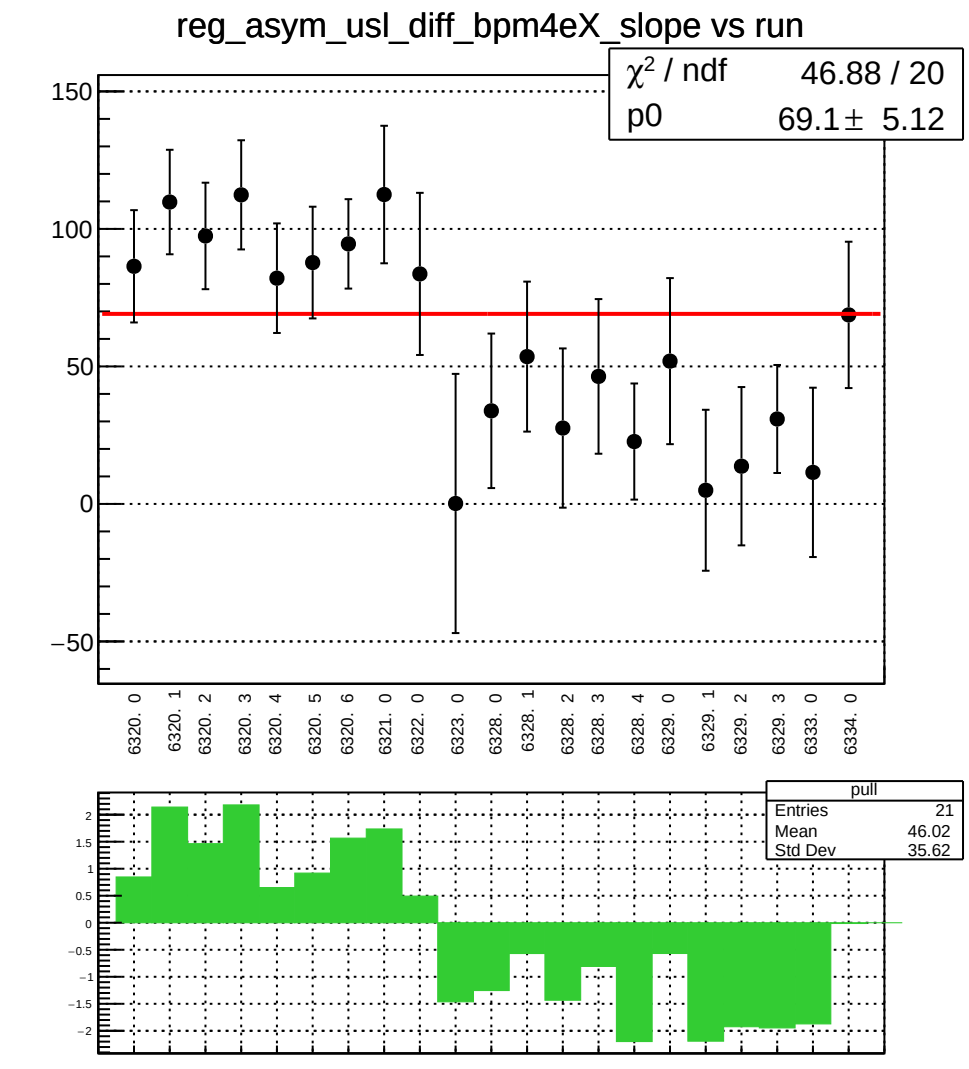

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 7.598 / 20
p0 0.2436 ± 0.02893
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.912
Std Dev 20.53
1.5
1
0.5
0
−0.5

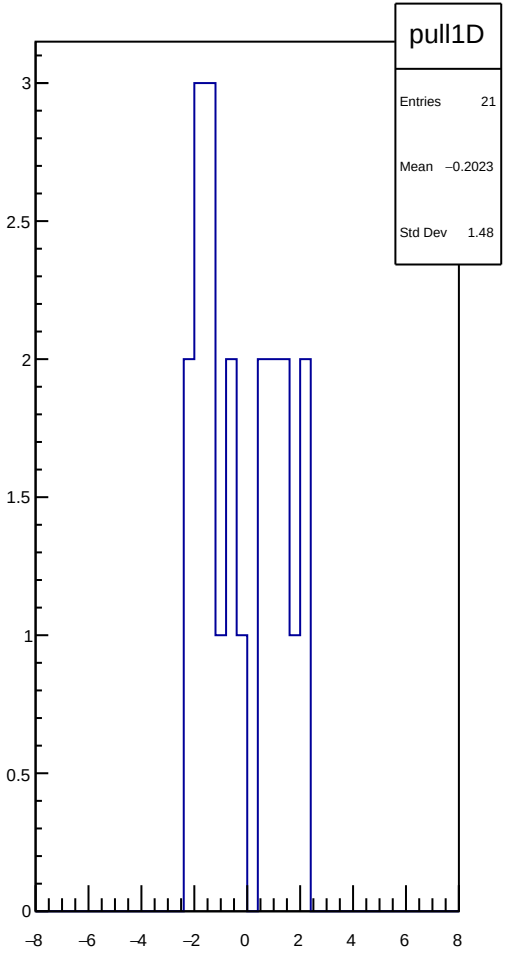

pull1D
Entries 21
Mean −0.08688
Std Dev 0.5952
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

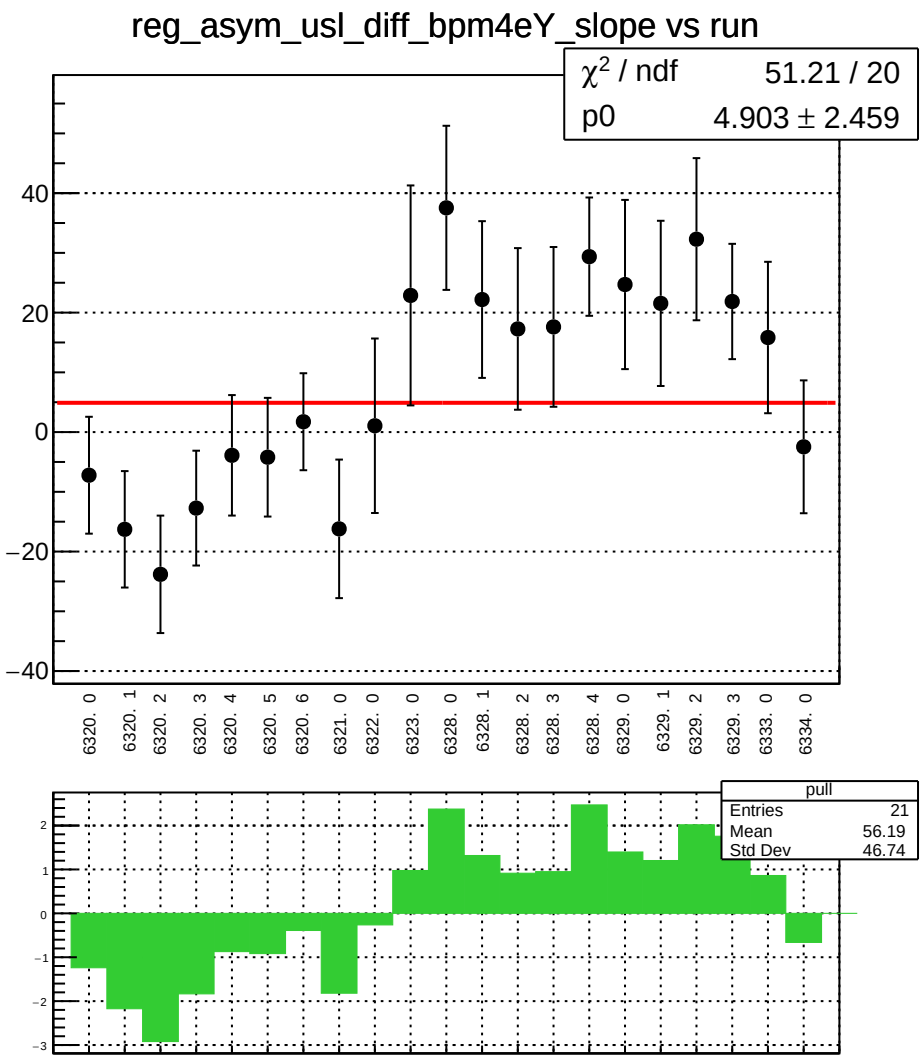

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 48.54 / 20
p0 −117.3 ± 4.723
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.9
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

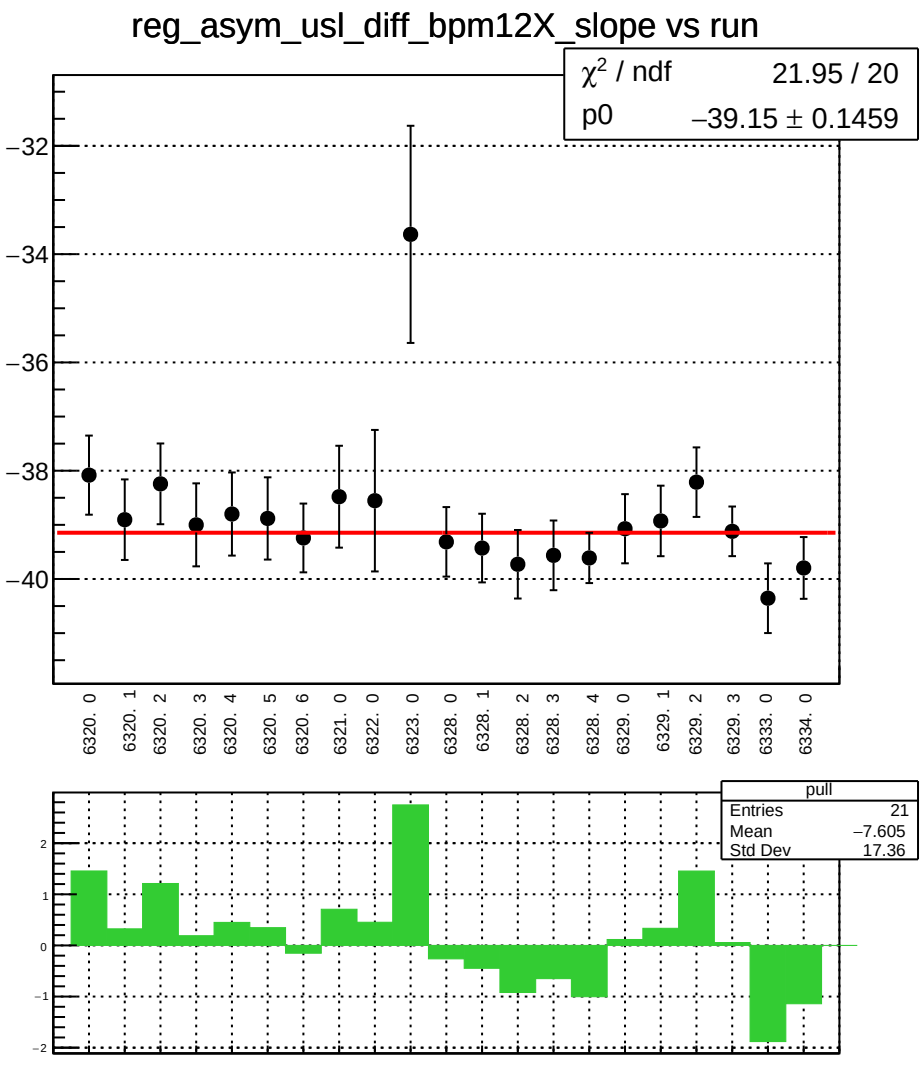

pull1D
Entries 21
Mean 0.2031
Std Dev 1.507
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

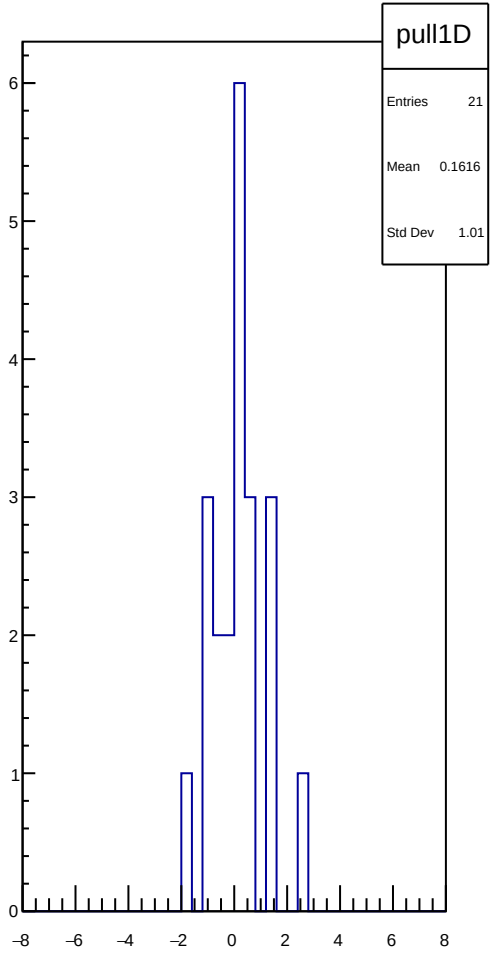

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.46 / 20
p0 7.948 ± 2.079
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.83
Std Dev 29.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1426
Std Dev 1.07
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

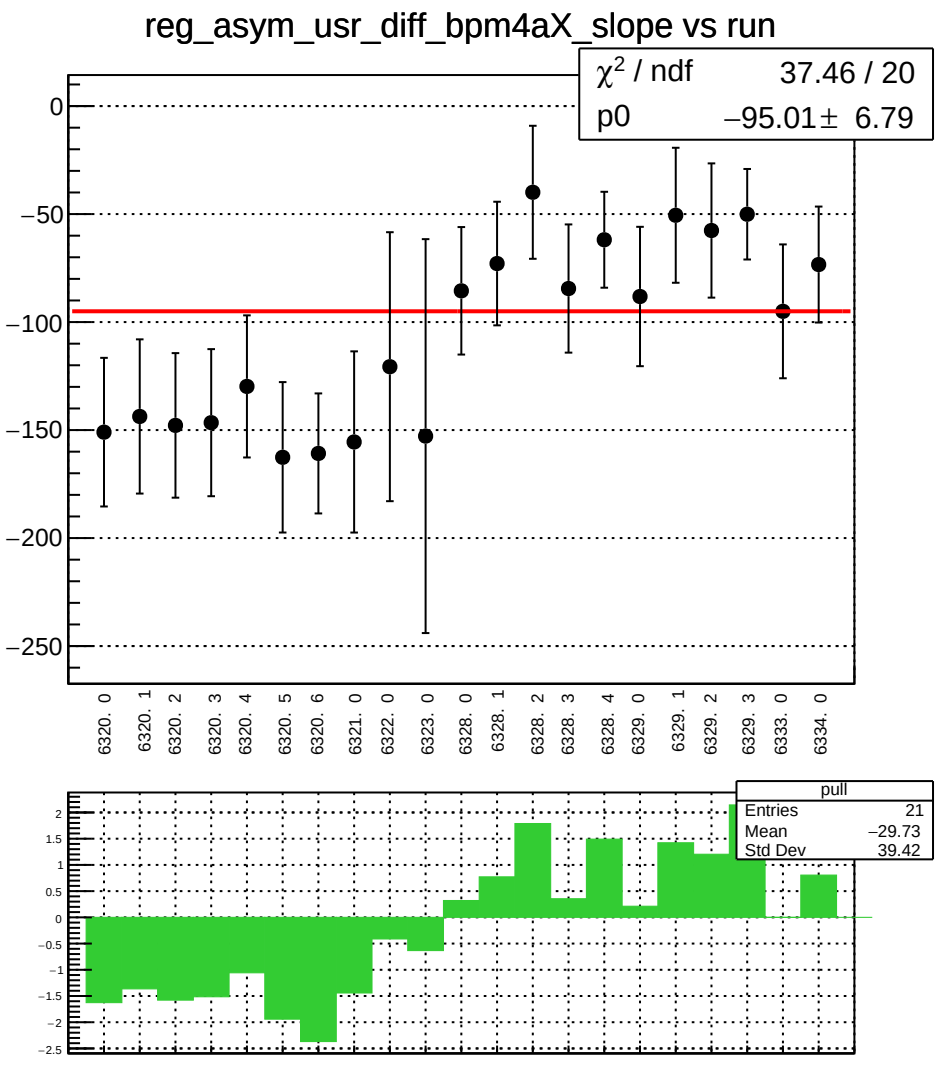

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.88 / 20
p0 69.1 ± 5.12
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.02
Std Dev 35.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

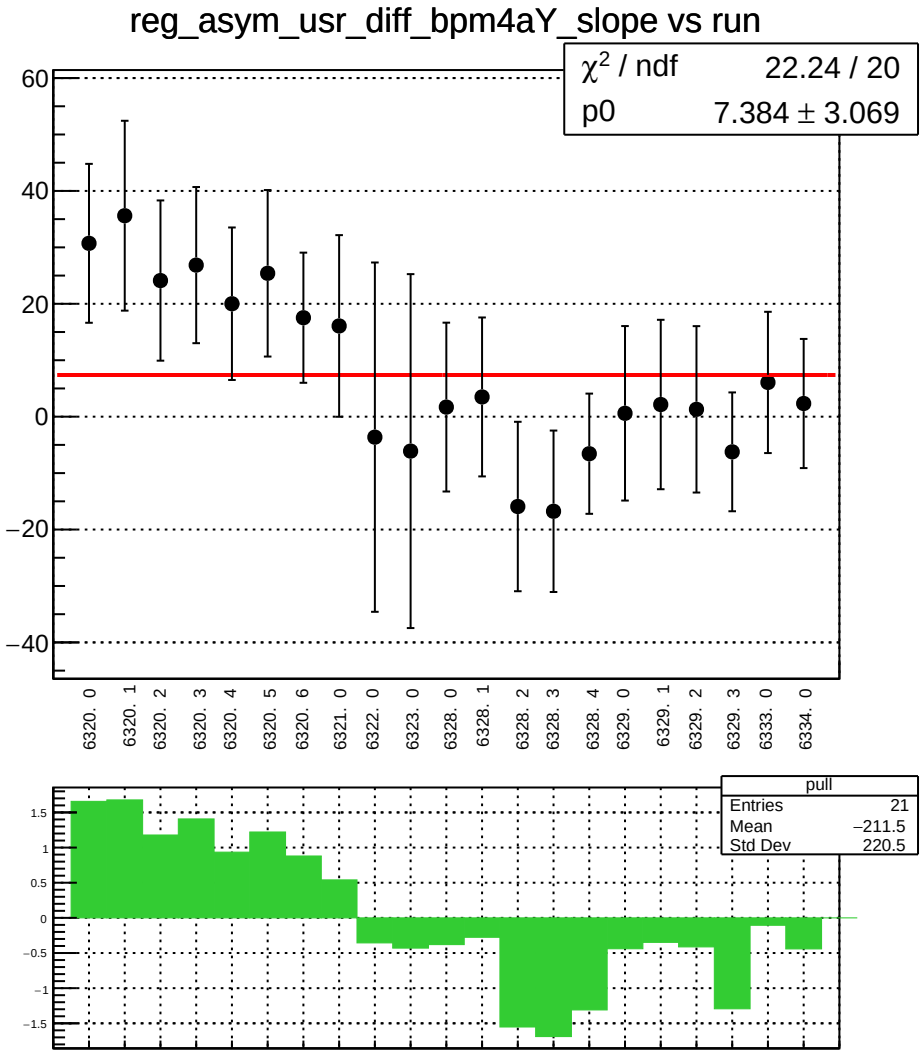

pull1D
Entries 21
Mean −0.2023
Std Dev 1.48
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

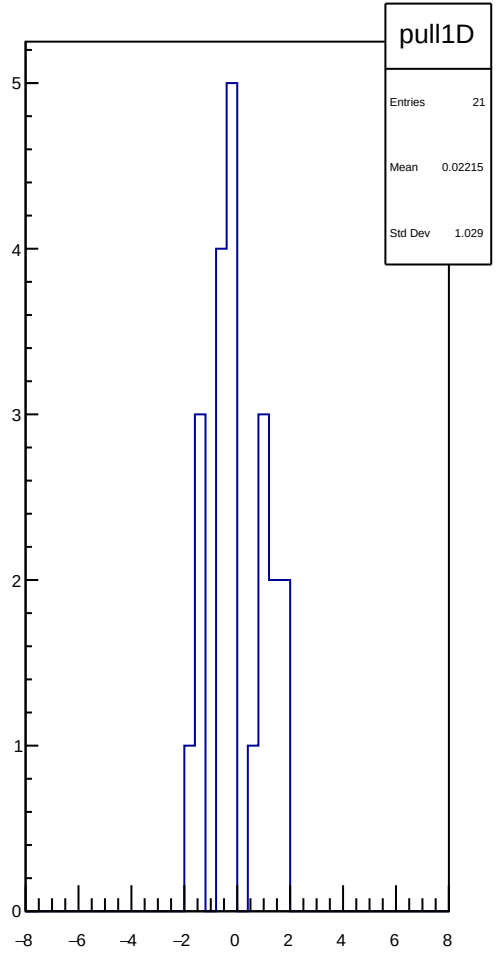

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 51.21 / 20
p0 4.903 ± 2.459
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 56.19
Std Dev 46.74
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.15
Std Dev 1.554
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

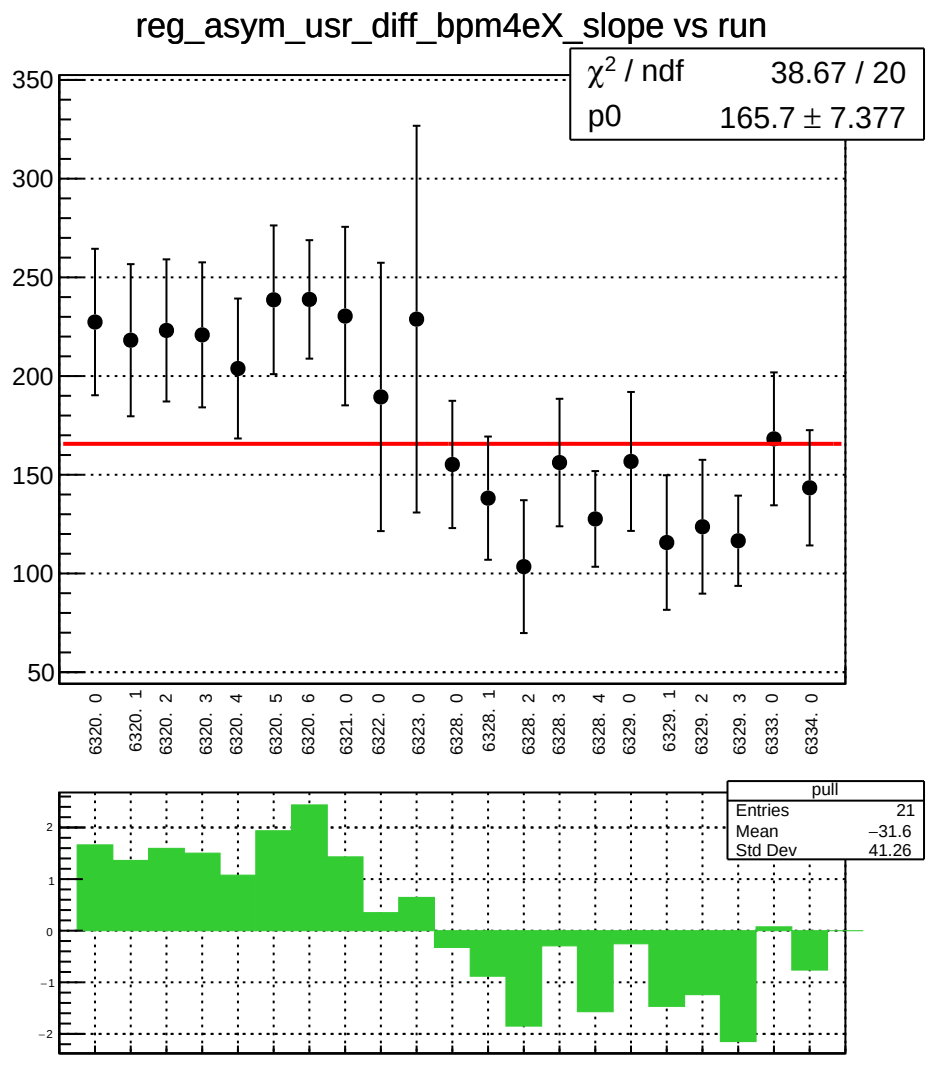

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 21.95 / 20
p0 −39.15 ± 0.1459
−32
−34
−36
−38
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.605
Std Dev 17.36
2
1
0
−1
−2

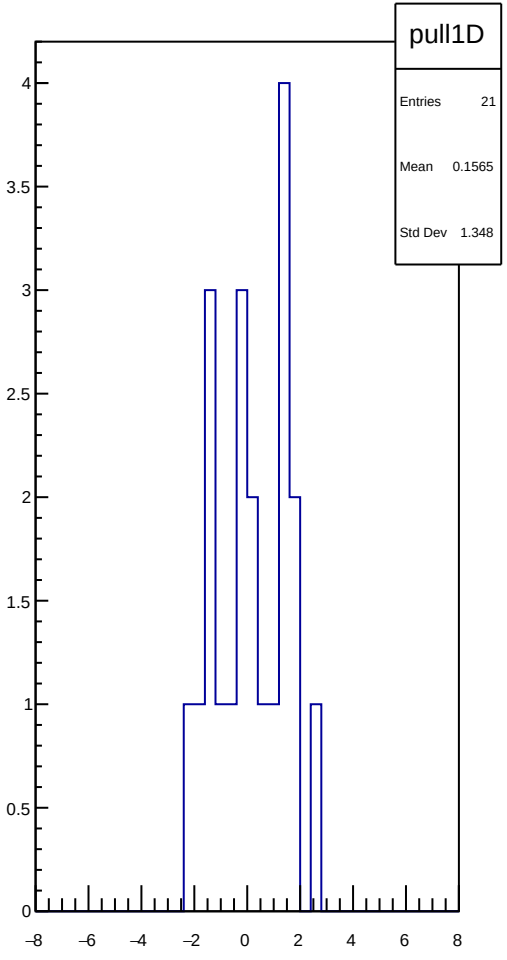

pull1D
Entries 21
Mean 0.1616
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

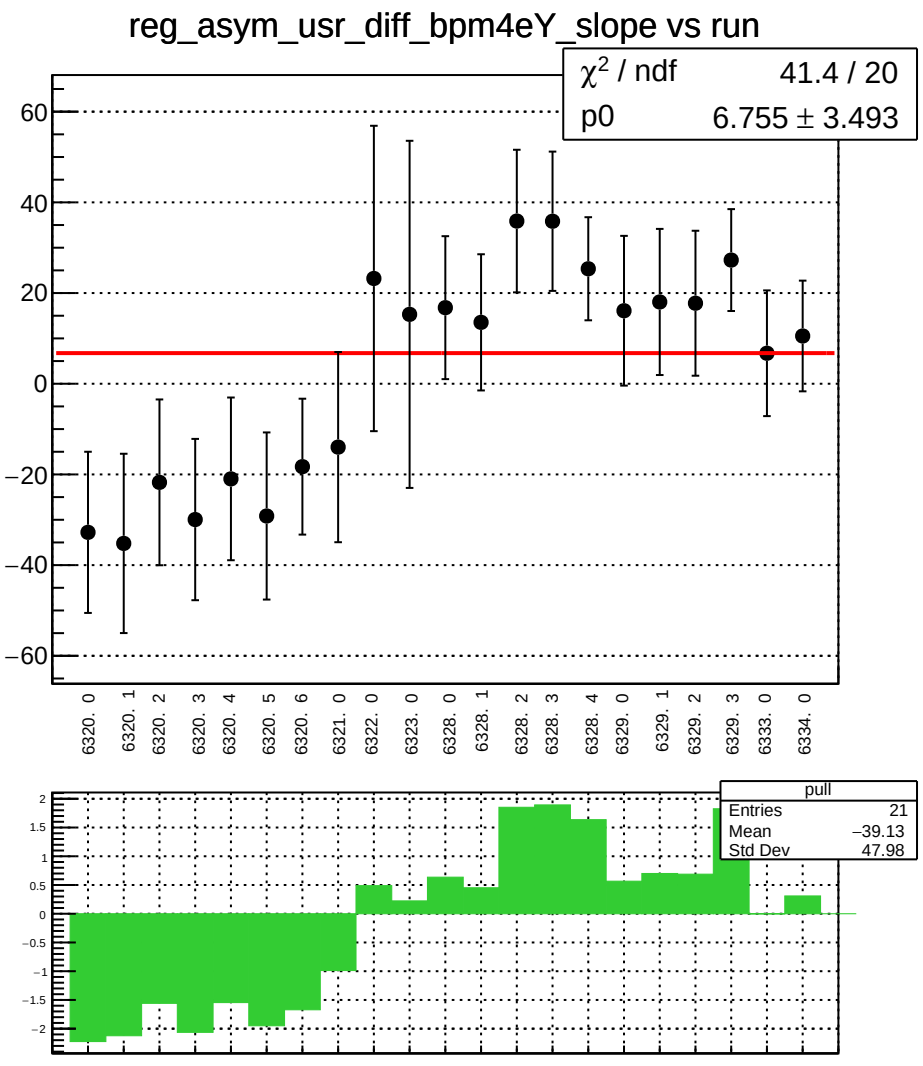

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 37.46 / 20
p0 −95.01± 6.79
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.73
Std Dev 39.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.163
Std Dev 1.326
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

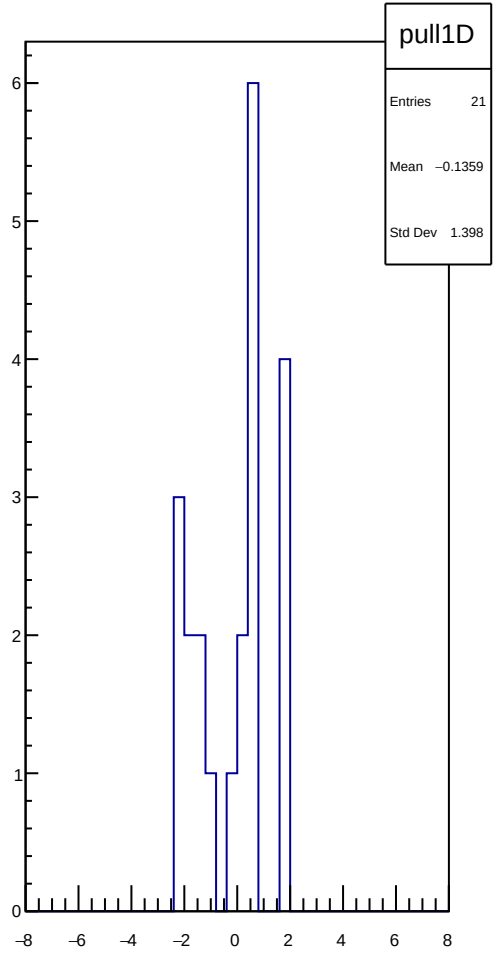

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 22.24 / 20
p0 7.384 ± 3.069
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −211.5
Std Dev 220.5
1.5
1
0.5
0
−0.5
−1
−1.5

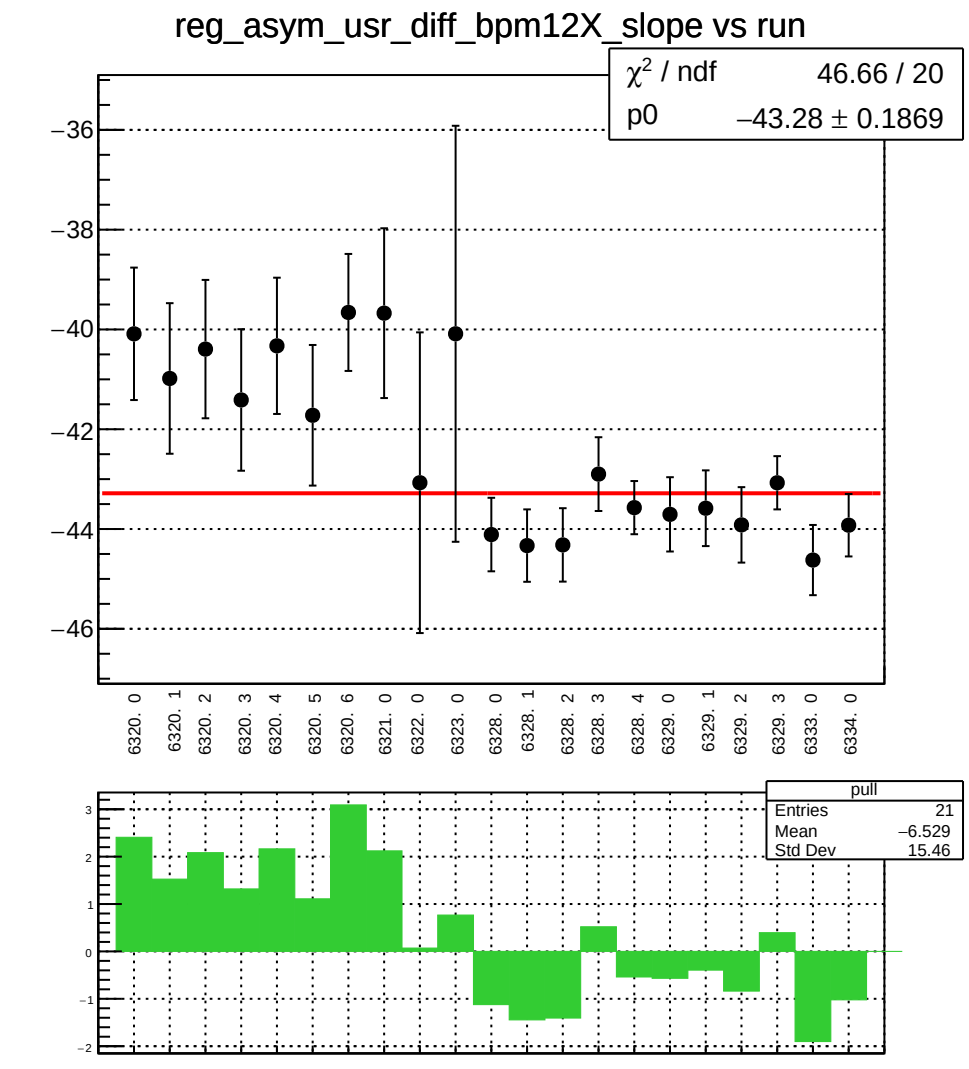

pull1D
Entries 21
Mean 0.02215
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

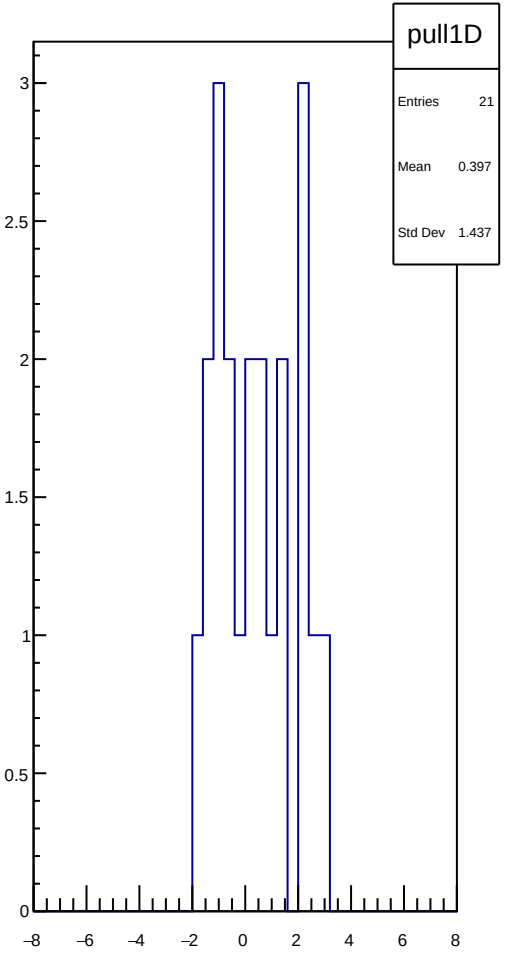

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 38.67 / 20
p0 165.7 ± 7.377
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.6
Std Dev 41.26
2
1
0
−1
−2

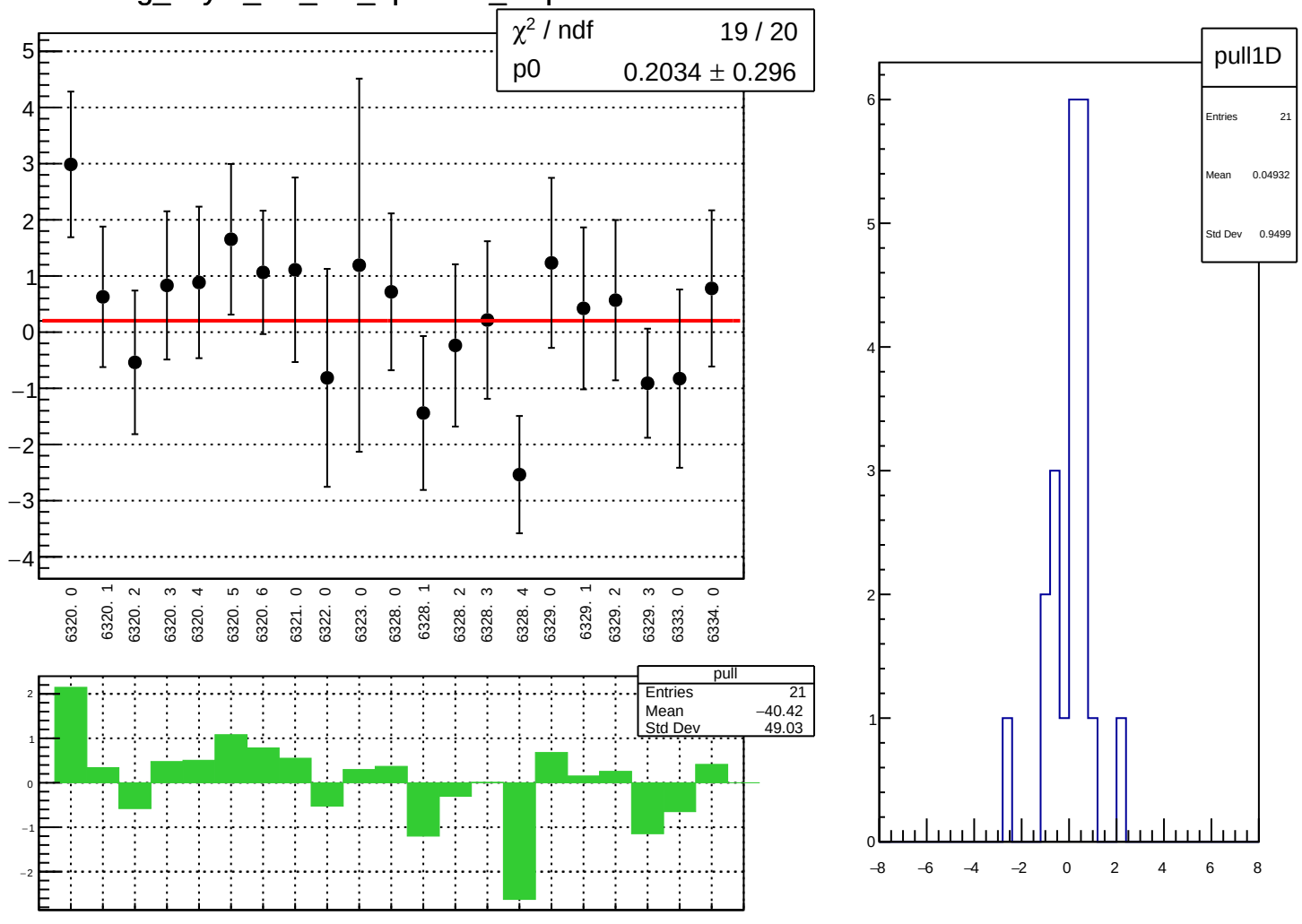

pull1D
Entries 21
Mean 0.1565
Std Dev 1.348
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

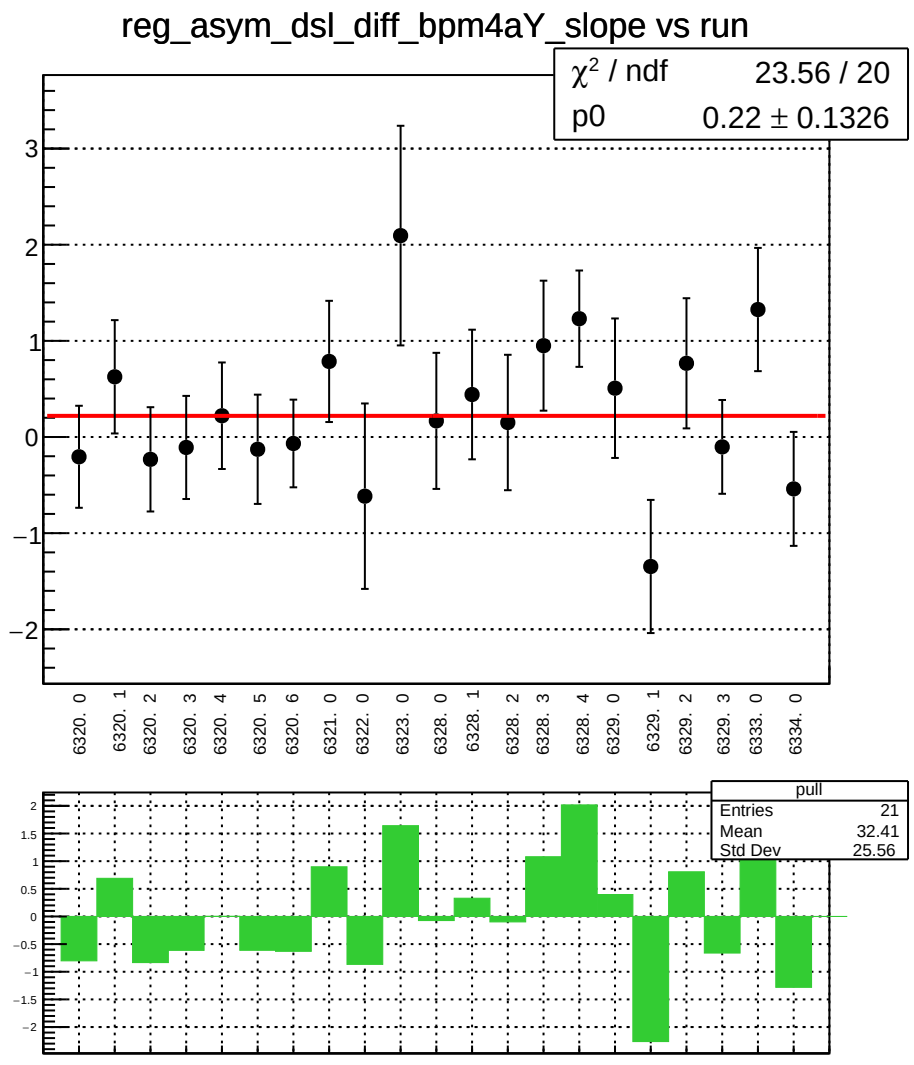

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 41.4 / 20
p0 6.755 ± 3.493
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.13
Std Dev 47.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

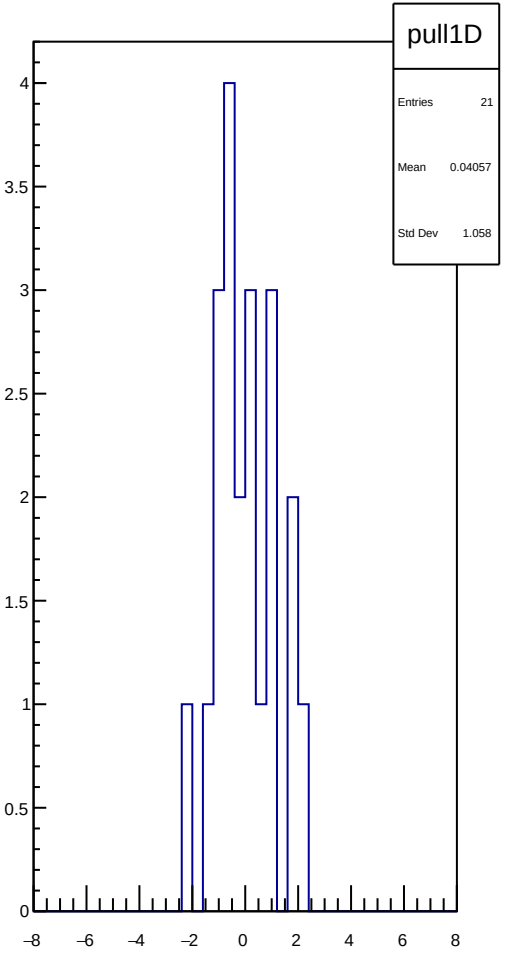

pull1D
Entries 21
Mean −0.1359
Std Dev 1.398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

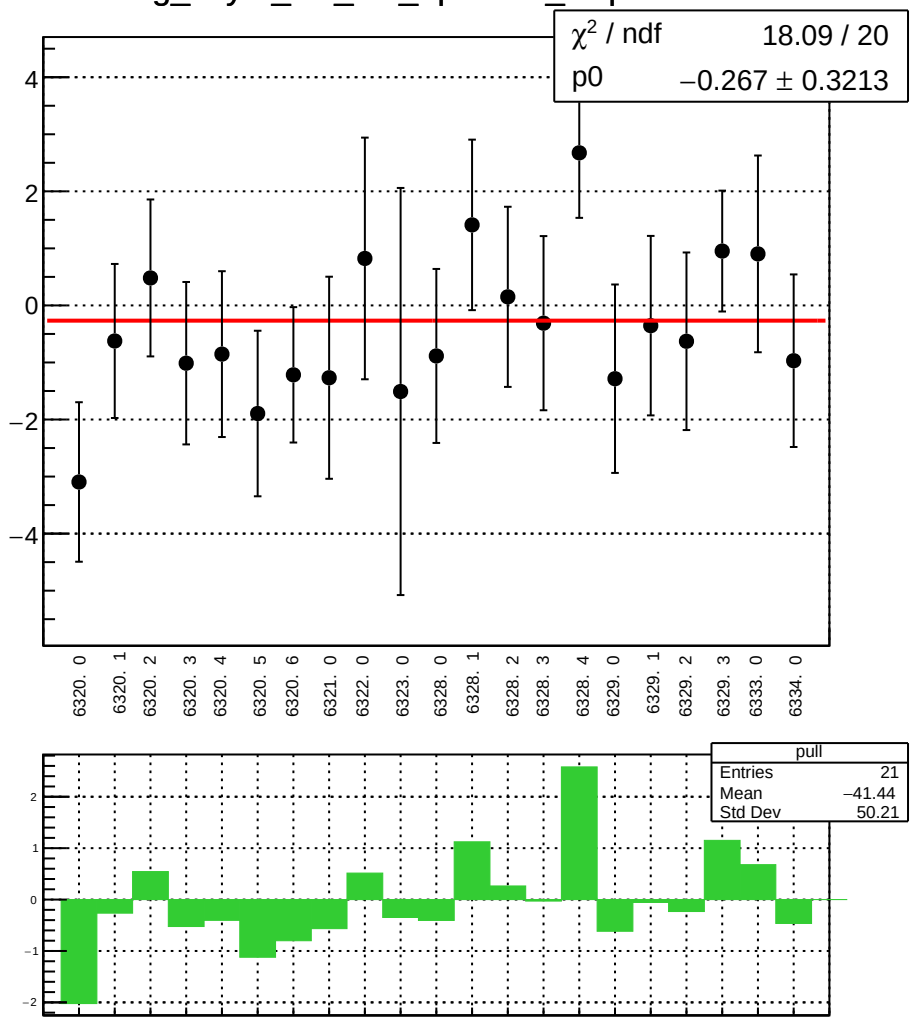

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 46.66 / 20
p0 −43.28 ± 0.1869
−36
−38
−40
−42
−44
−46
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.529
Std Dev 15.46
3
2
1
0
−1
−2

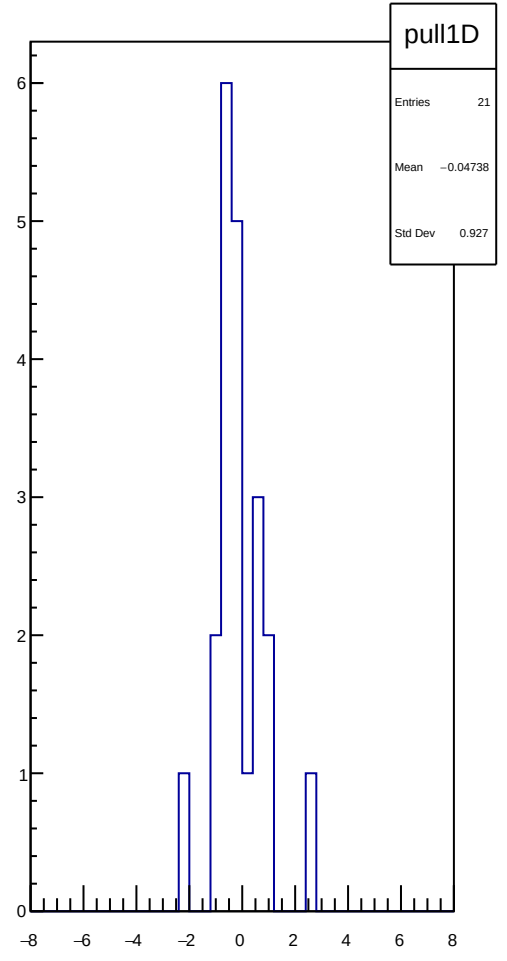

pull1D
Entries 21
Mean 0.397
Std Dev 1.437
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

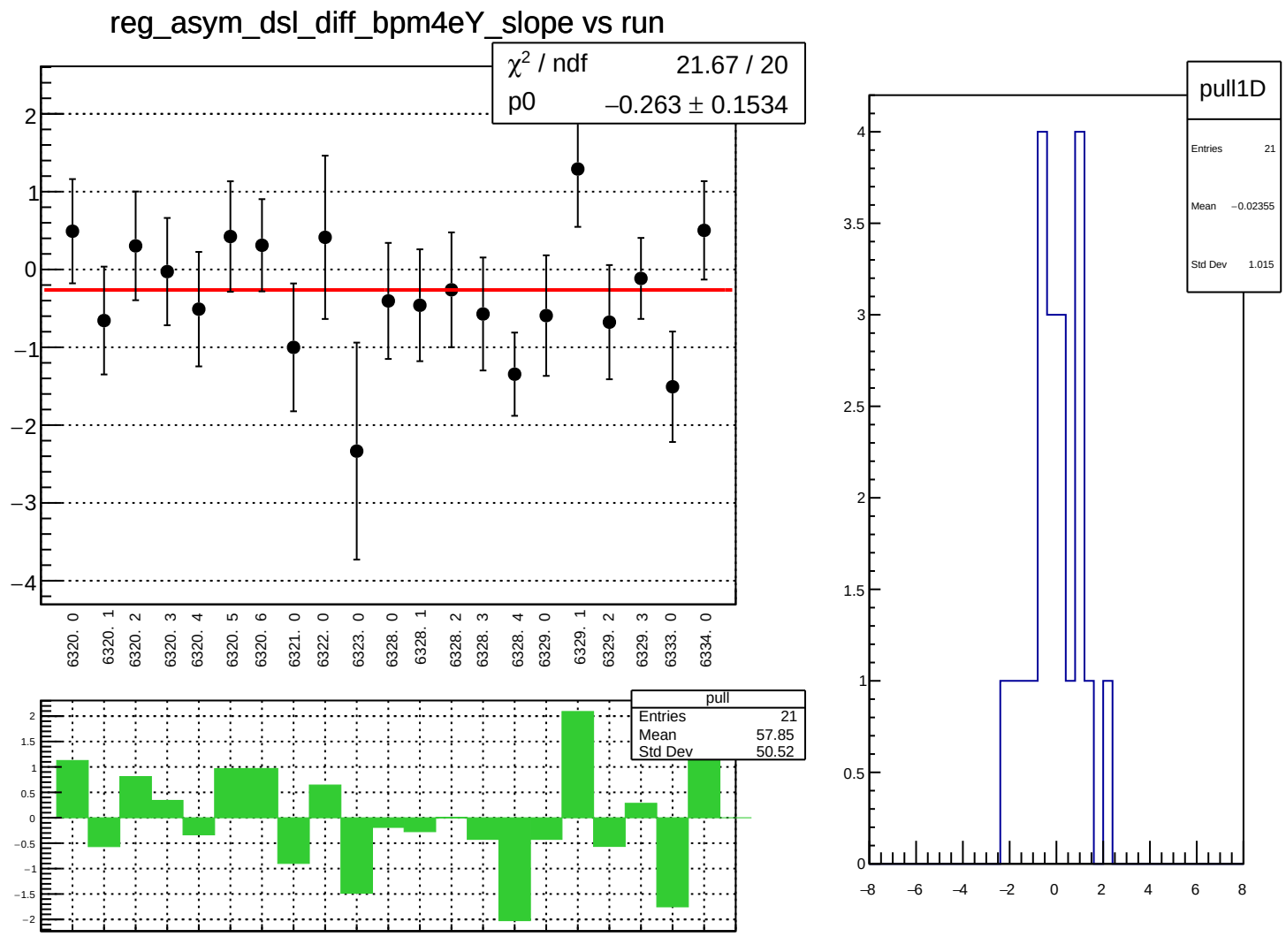

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 19 / 20
p0 0.2034 ± 0.296
5
4
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −40.42
Std Dev 49.03
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.04932
Std Dev 0.9499
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

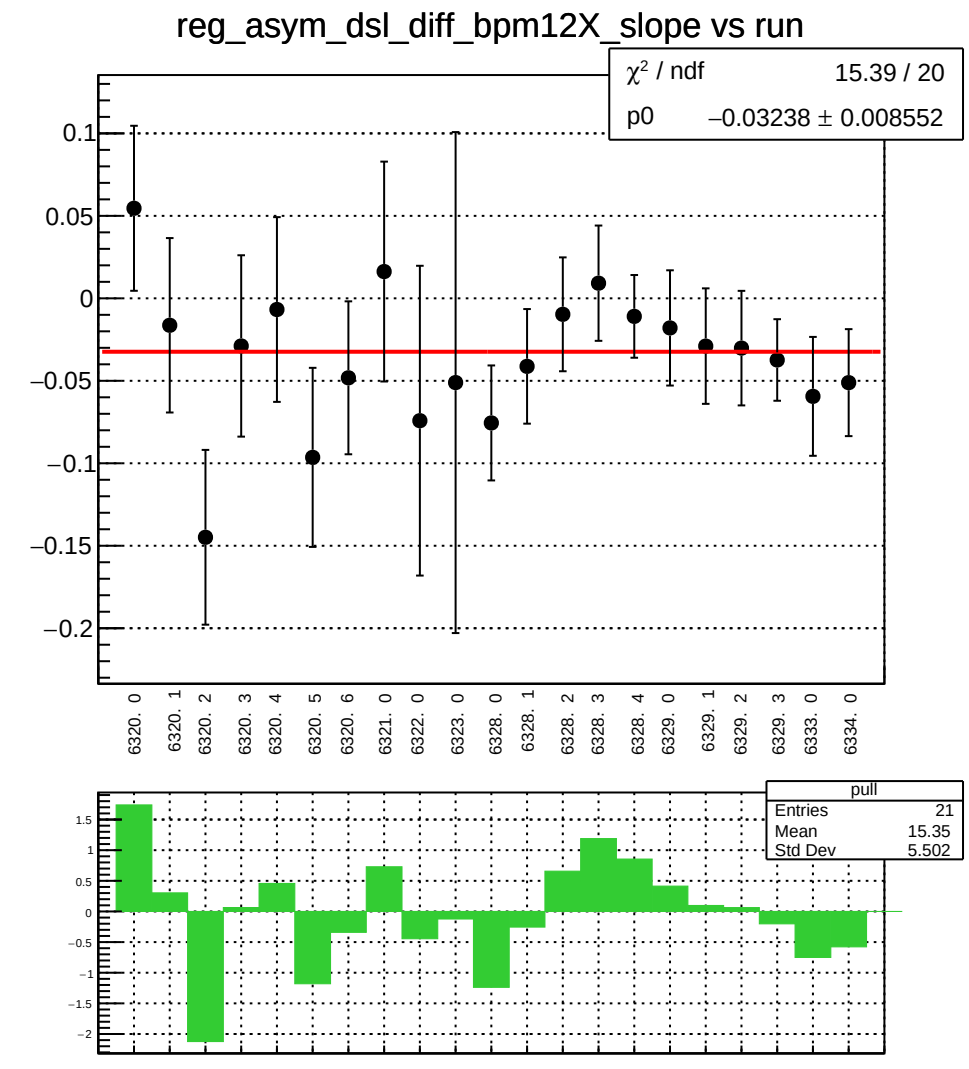

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 23.56 / 20
p0 0.22 ± 0.1326
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 32.41
Std Dev 25.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

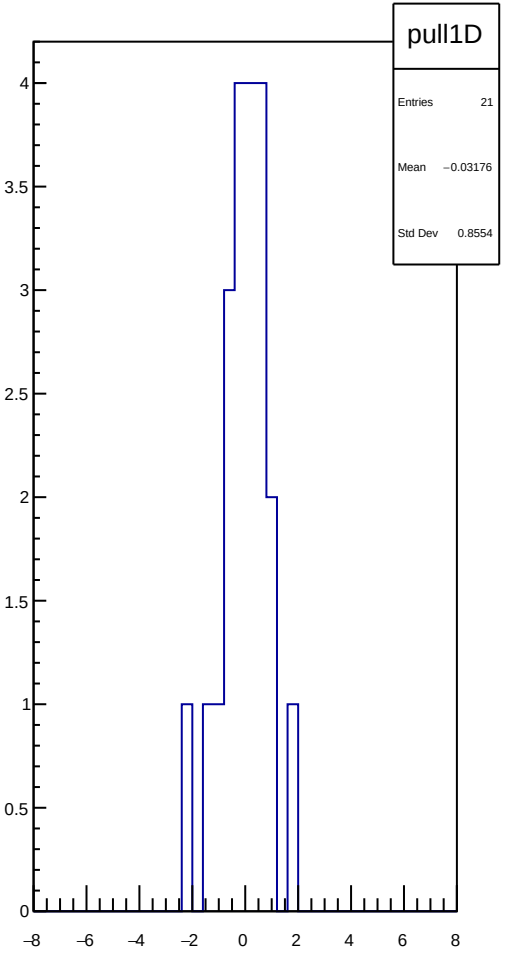

pull1D
Entries 21
Mean 0.04057
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

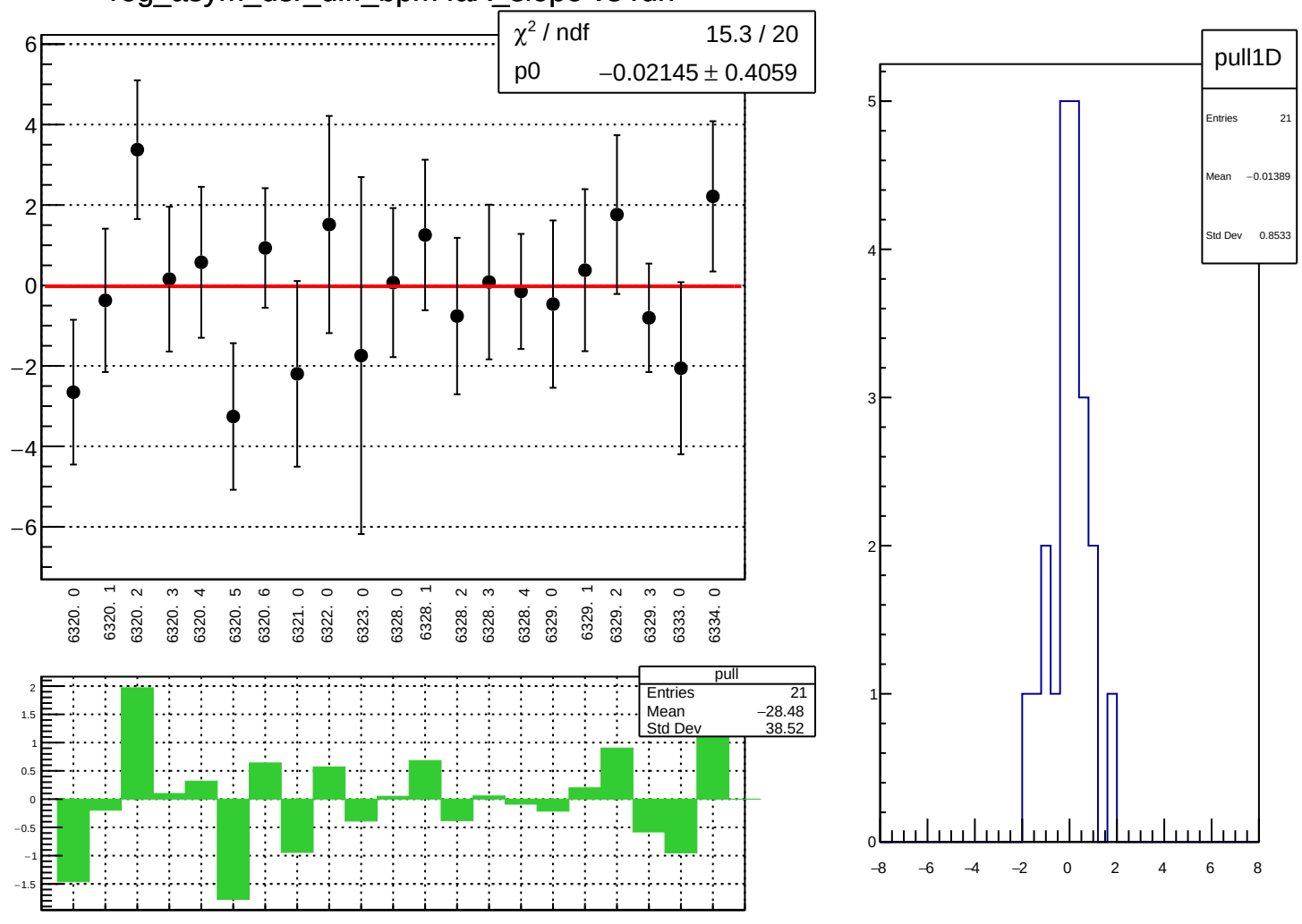

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 20
p0 −0.267 ± 0.3213
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −41.44
Std Dev 50.21
2
1
0
−1
−2

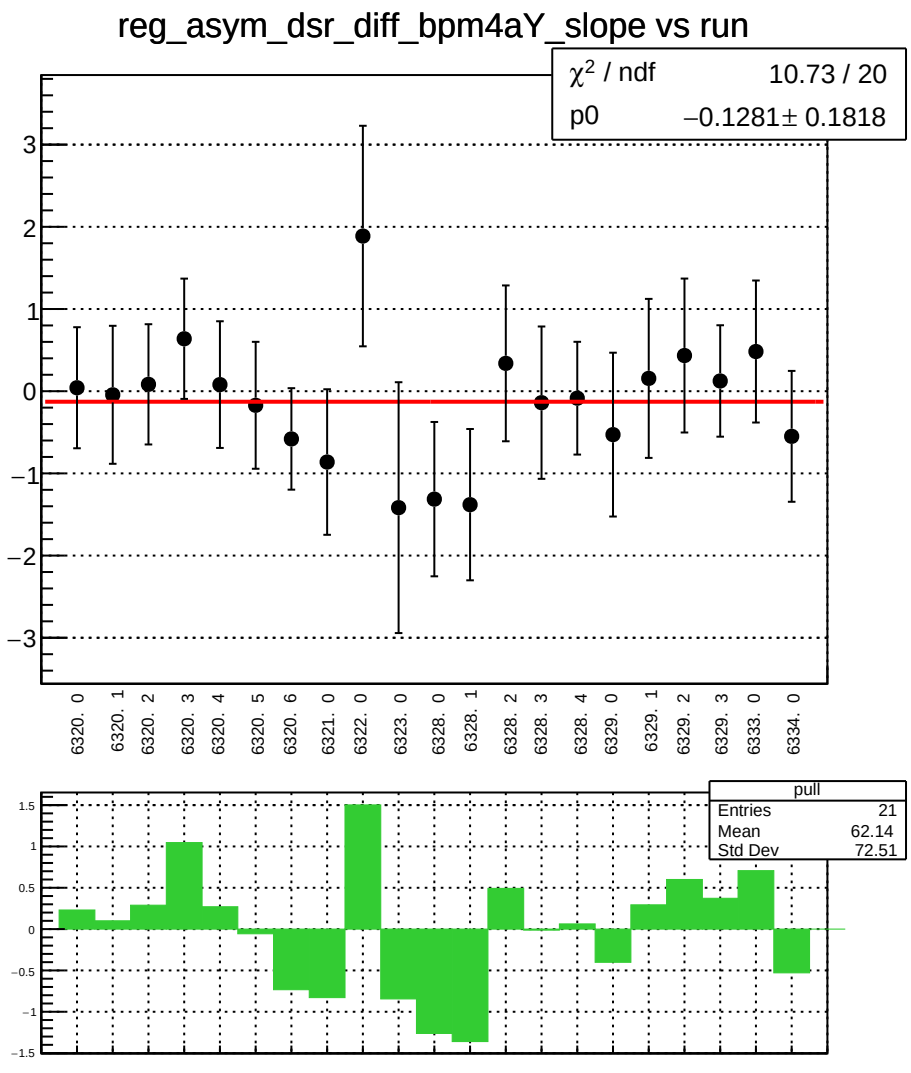

pull1D
Entries 21
Mean −0.04738
Std Dev 0.927
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

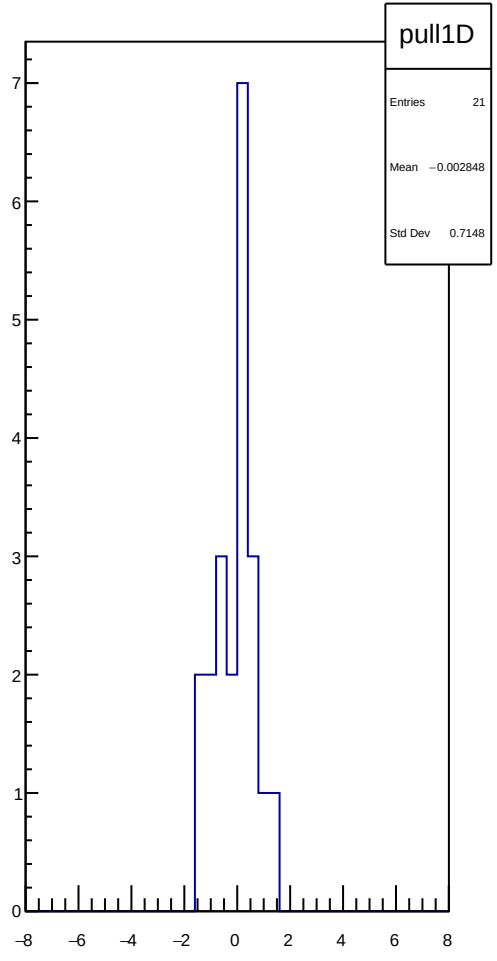

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 21.67 / 20
p0 −0.263 ± 0.1534
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.85
Std Dev 50.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.02355
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

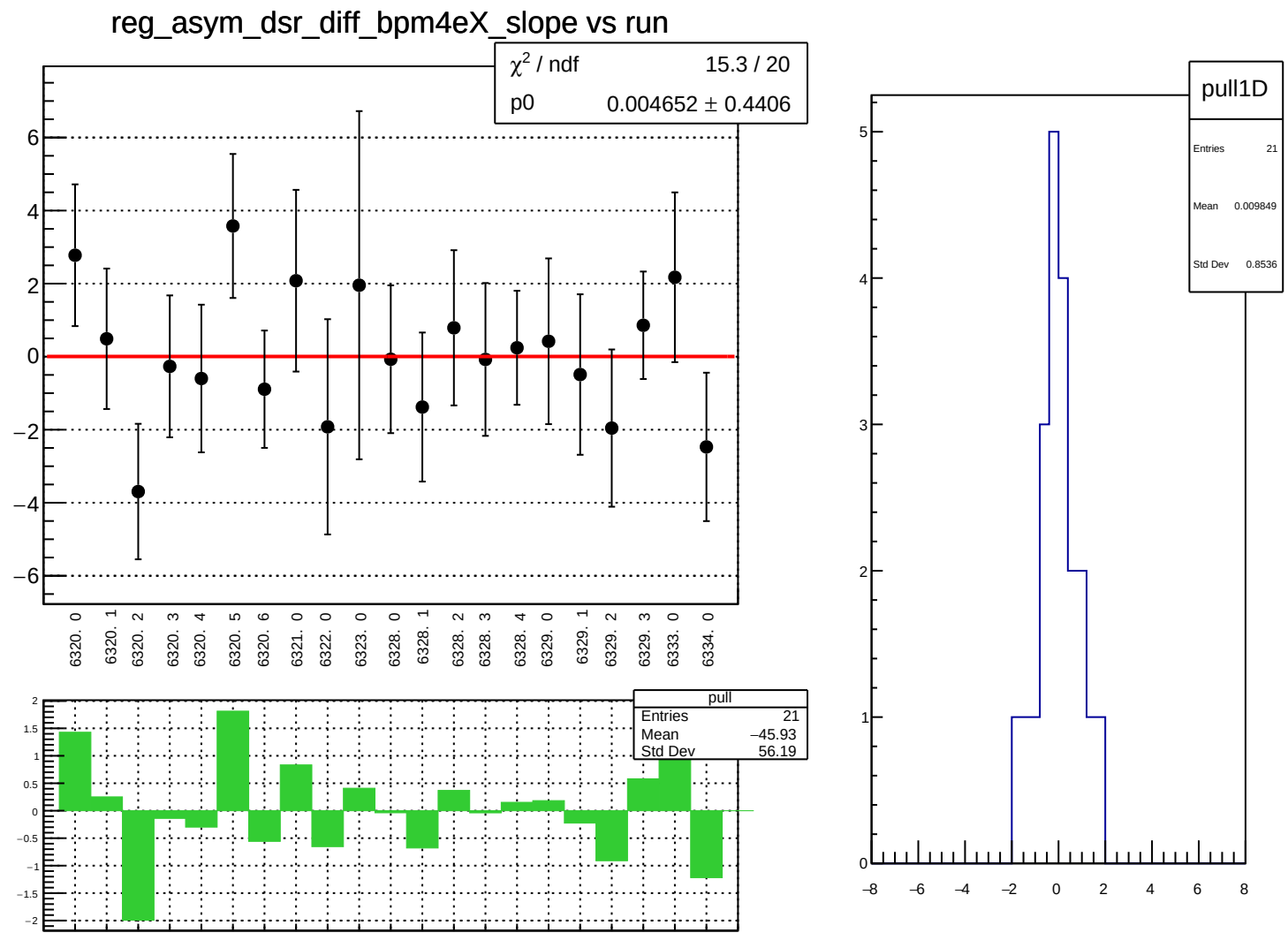

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 15.39 / 20
p0 −0.03238 ± 0.008552
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 15.35
Std Dev 5.502
1.5
1
0.5
0
−0.5
−1
−1.5
−2

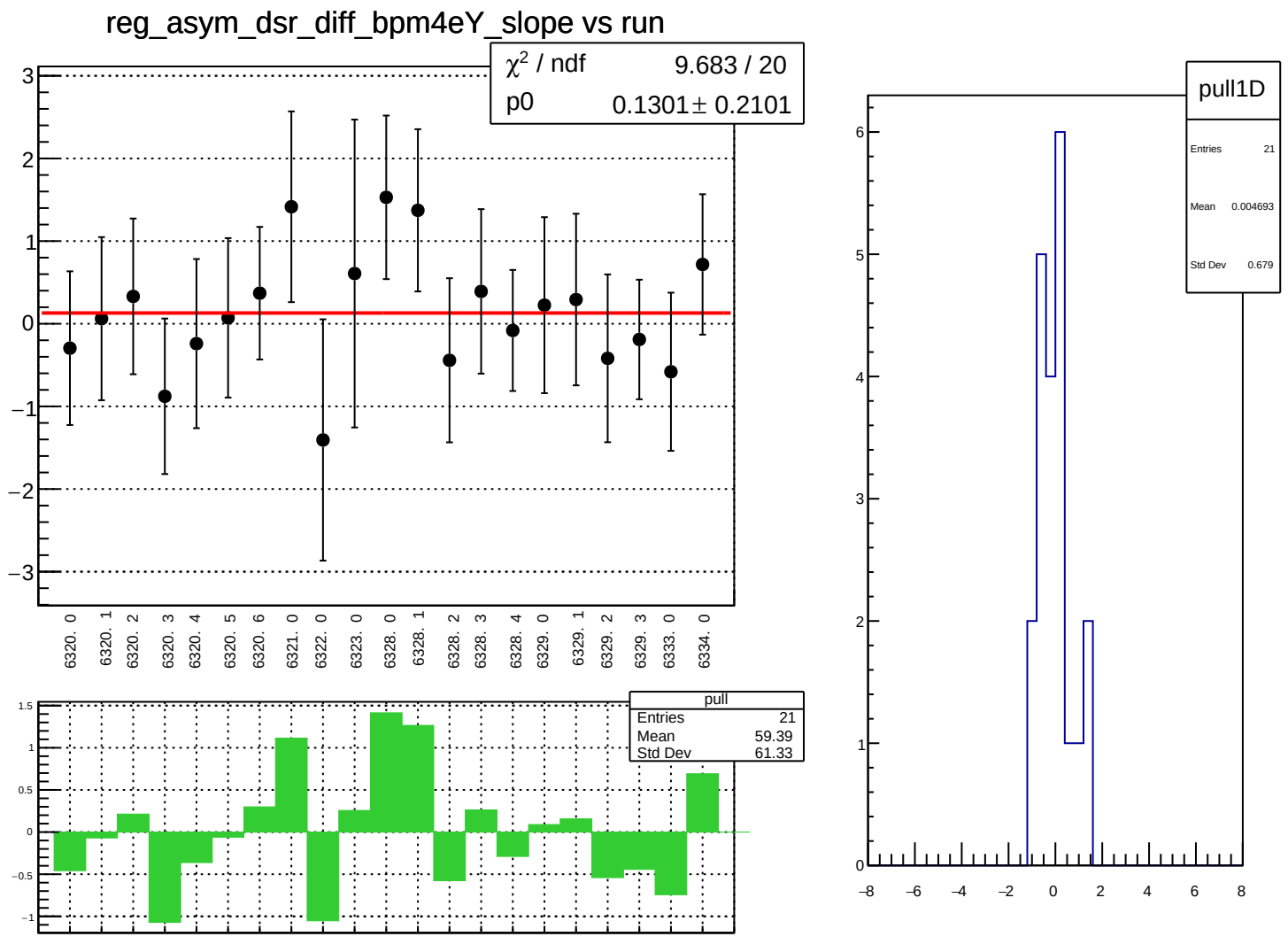

pull1D
Entries 21
Mean −0.03176
Std Dev 0.8554
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

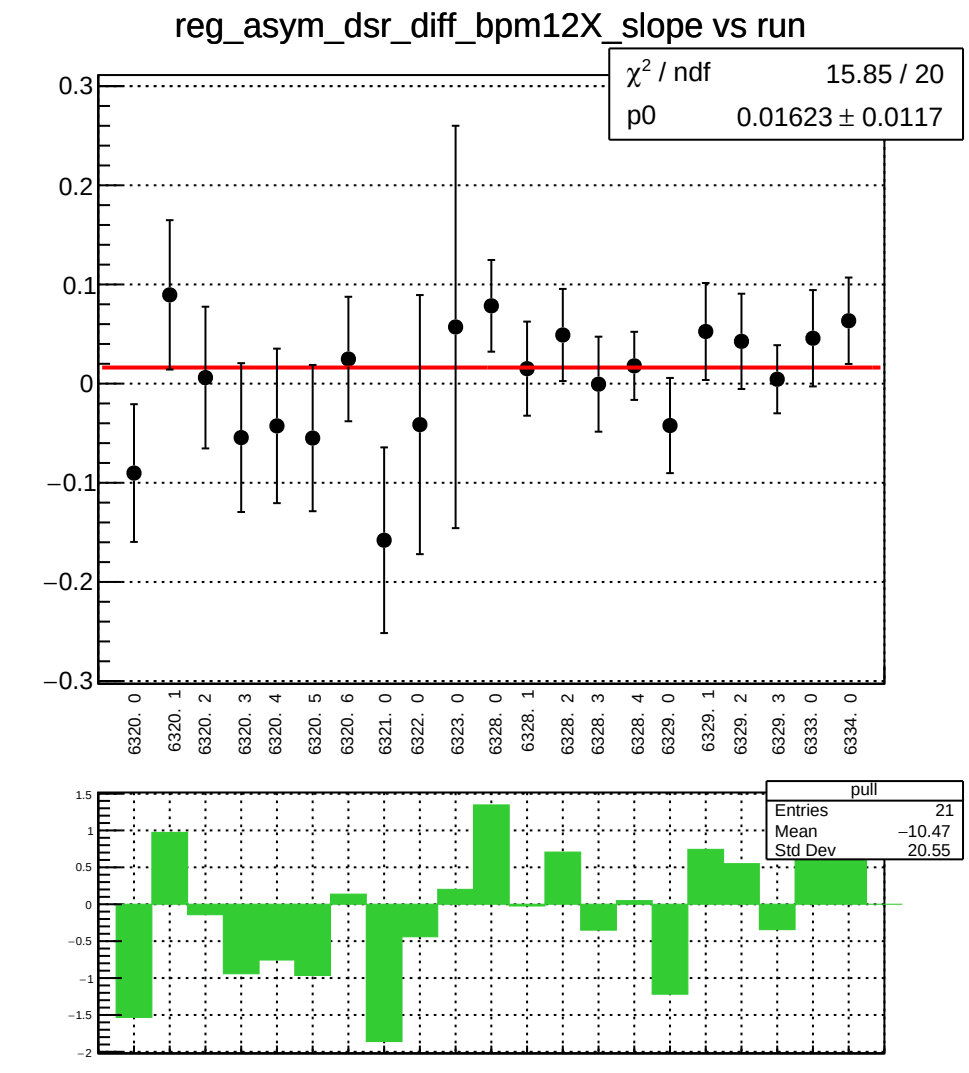

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 15.3 / 20
p0 −0.02145 ± 0.4059
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.48
Std Dev 38.52
pull1D
Entries 21
Mean −0.01389
Std Dev 0.8533

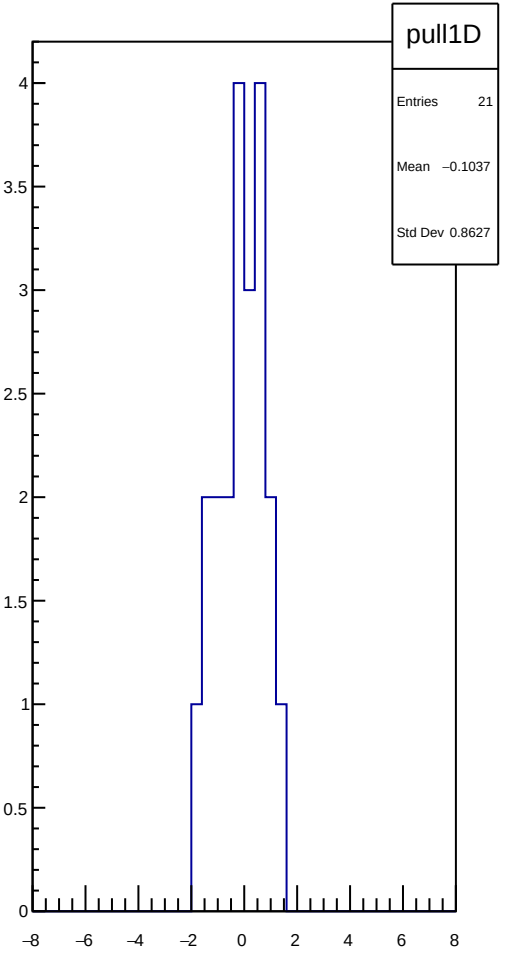

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 10.73 / 20
p0 −0.1281± 0.1818
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.14
Std Dev 72.51

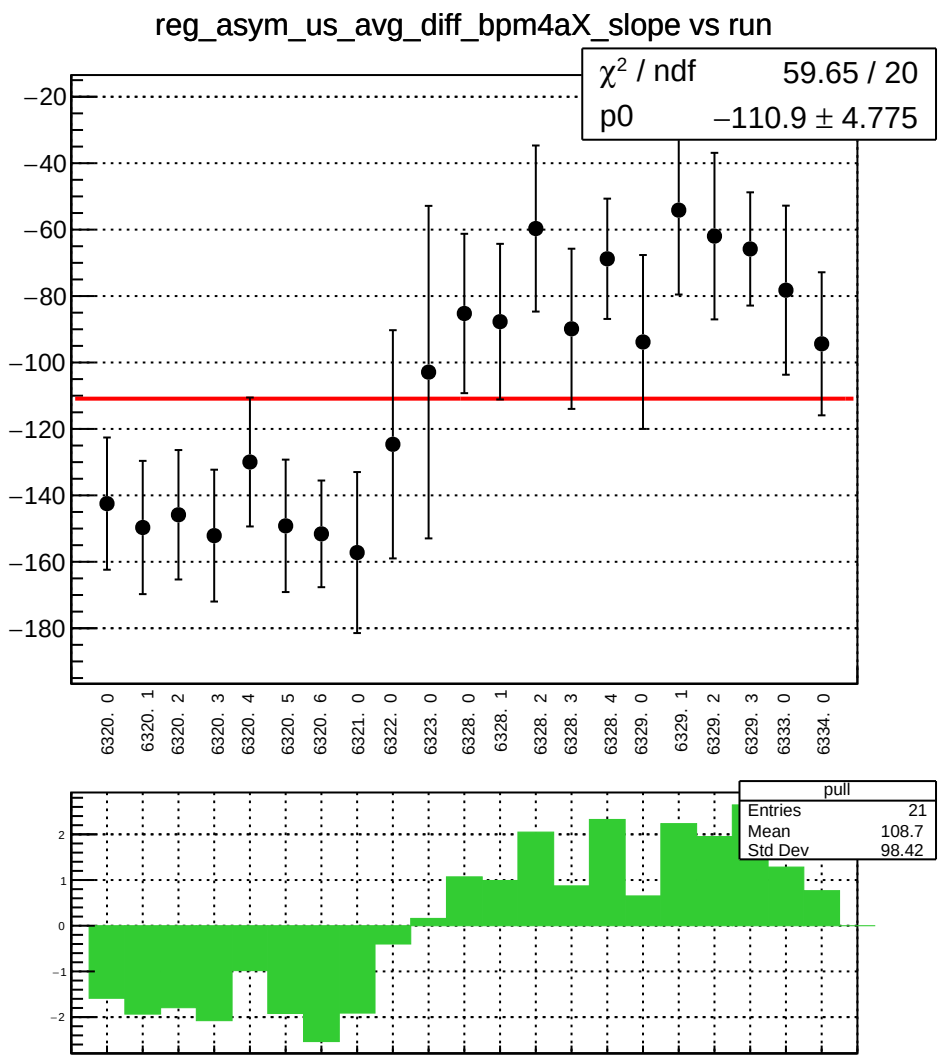

pull1D
Entries 21
Mean −0.002848
Std Dev 0.7148

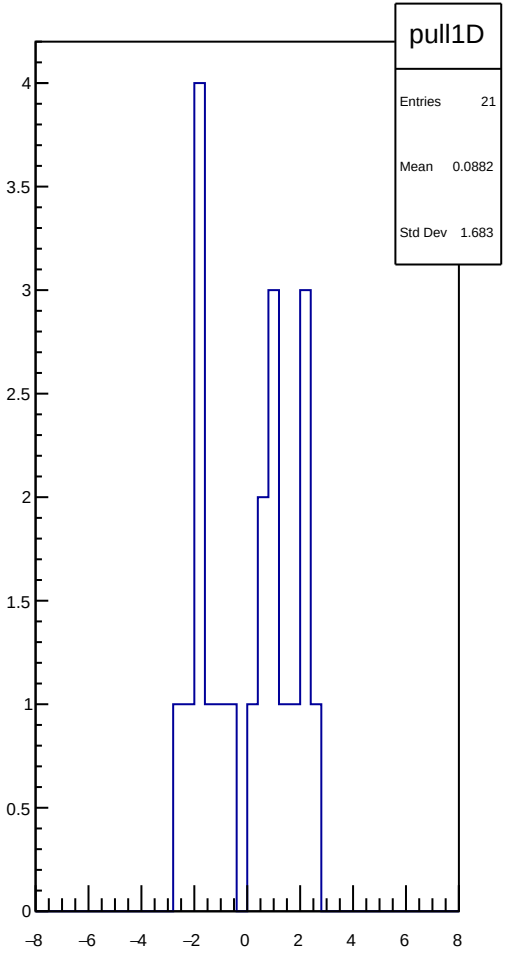

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 15.3 / 20
p0 0.004652 ± 0.4406
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −45.93
Std Dev 56.19
pull1D
Entries 21
Mean 0.009849
Std Dev 0.8536

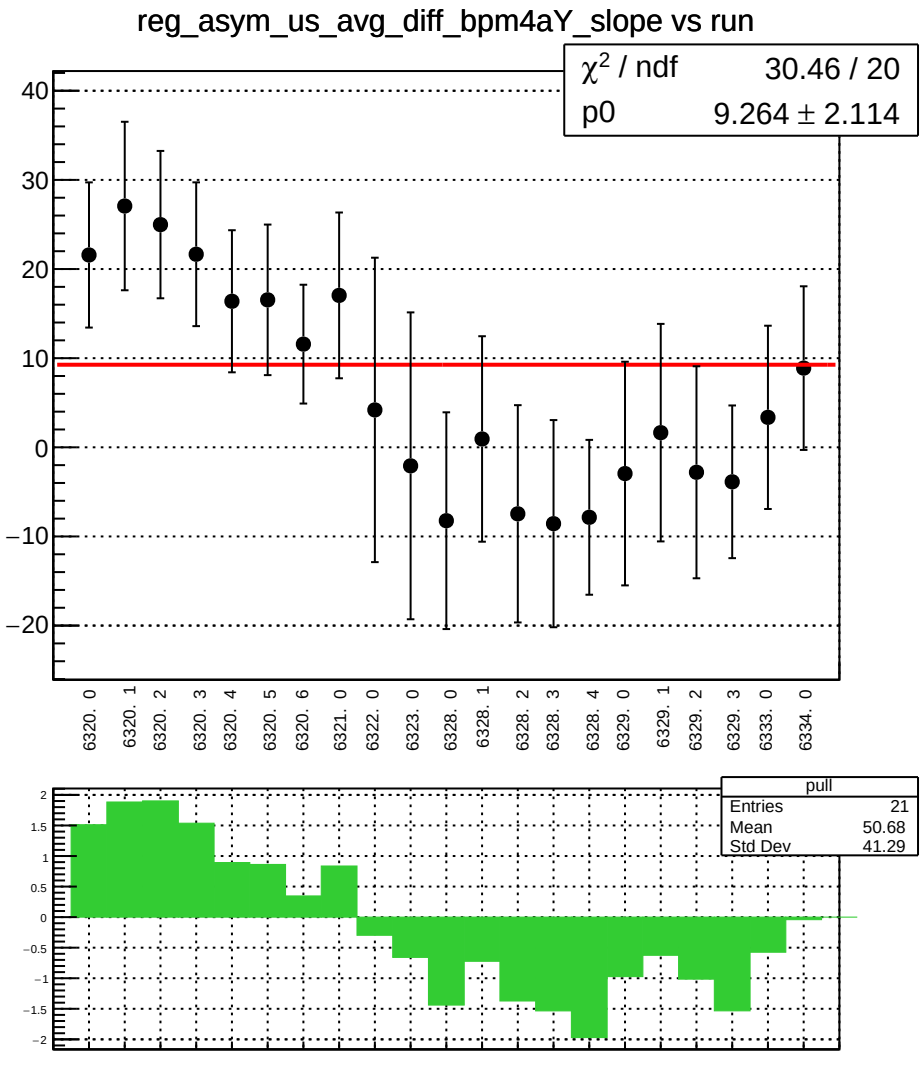

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 9.683 / 20
p0 0.1301± 0.2101
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.39
Std Dev 61.33
pull1D
Entries 21
Mean 0.004693
Std Dev 0.679

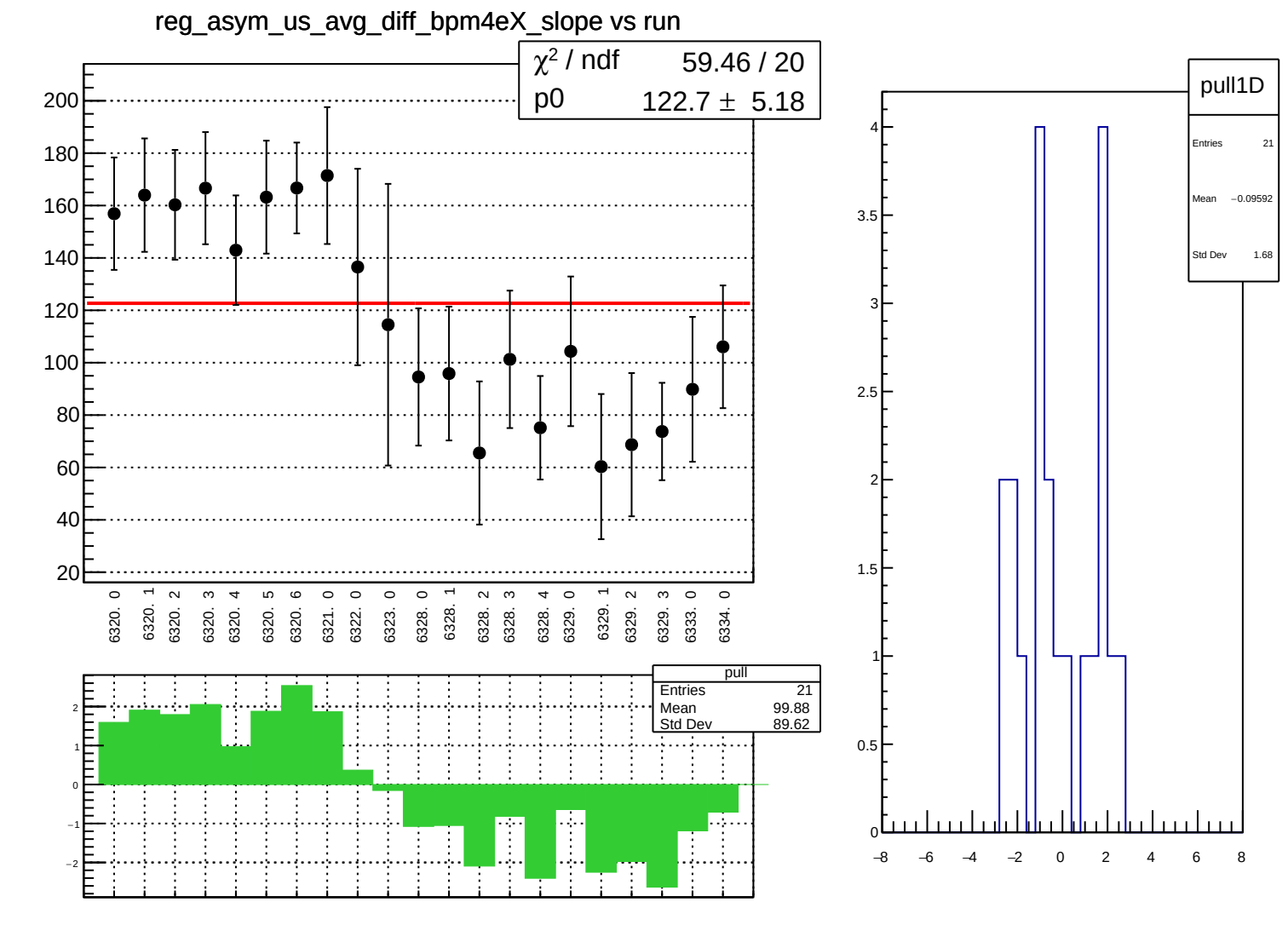

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 15.85 / 20
p0 0.01623 ± 0.0117
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.47
Std Dev 20.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

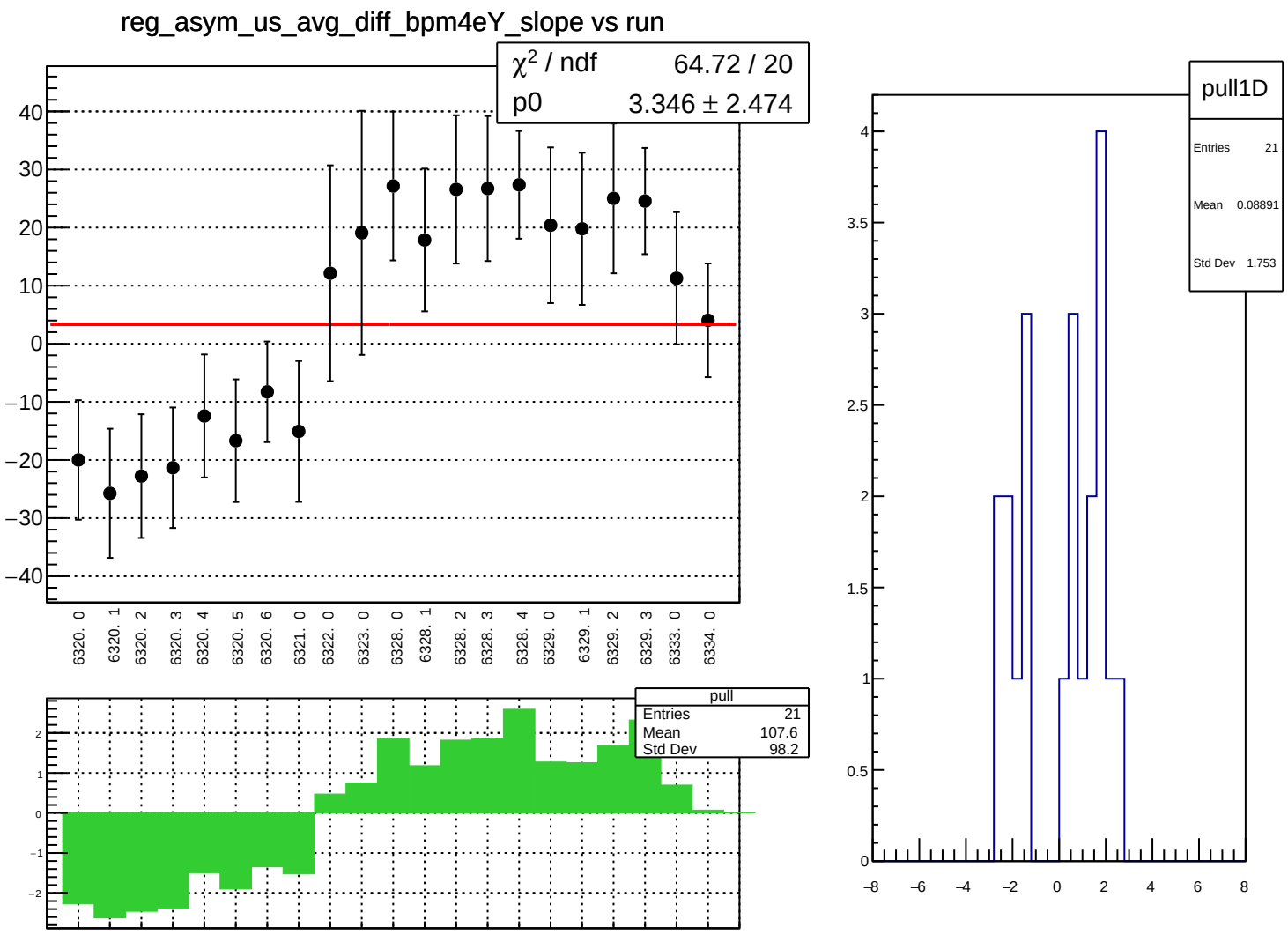

pull1D
Entries 21
Mean −0.1037
Std Dev 0.8627
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

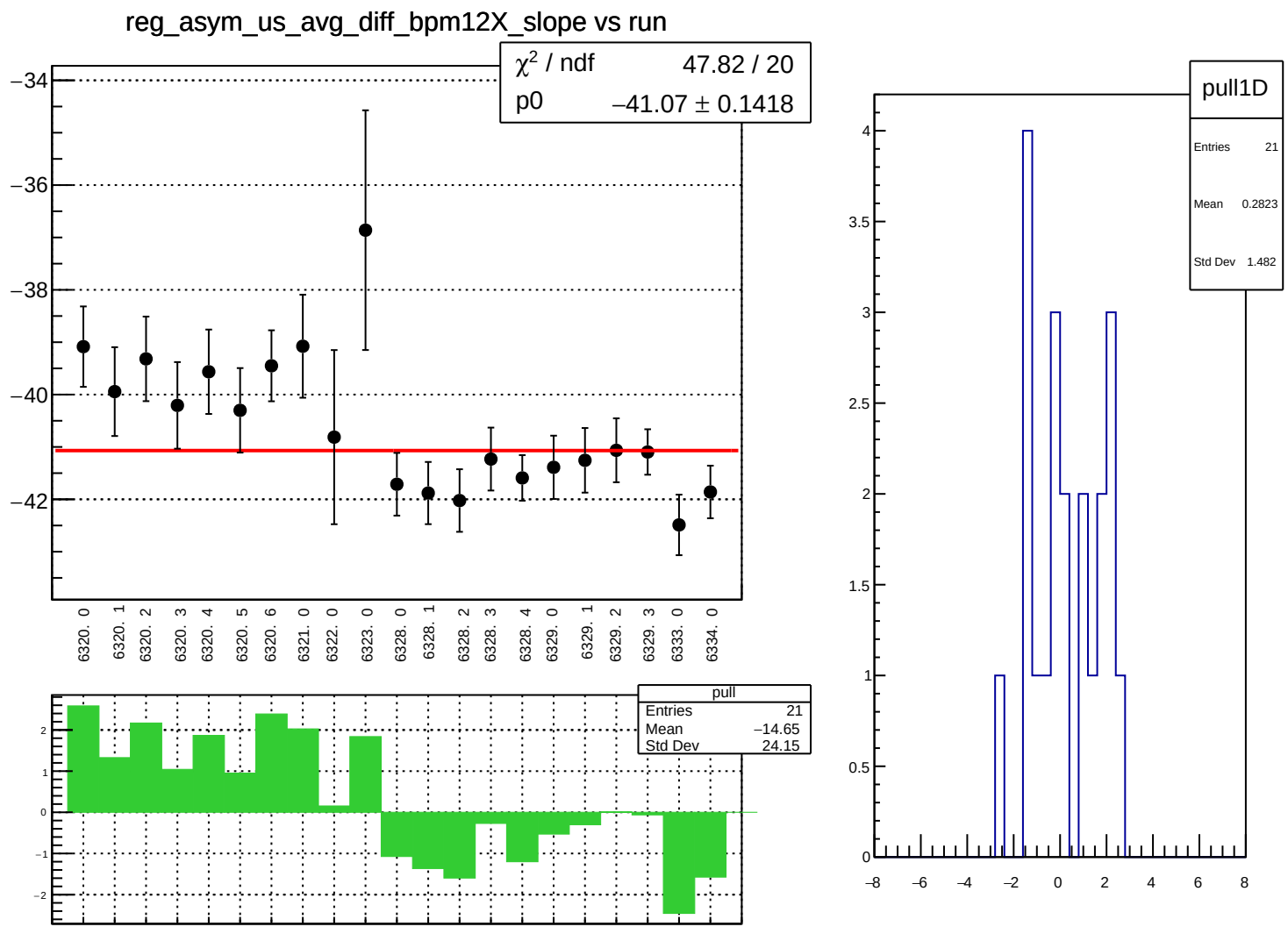

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 59.65 / 20
p0 −110.9 ± 4.775
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 108.7
Std Dev 98.42
2
1
0
−1
−2

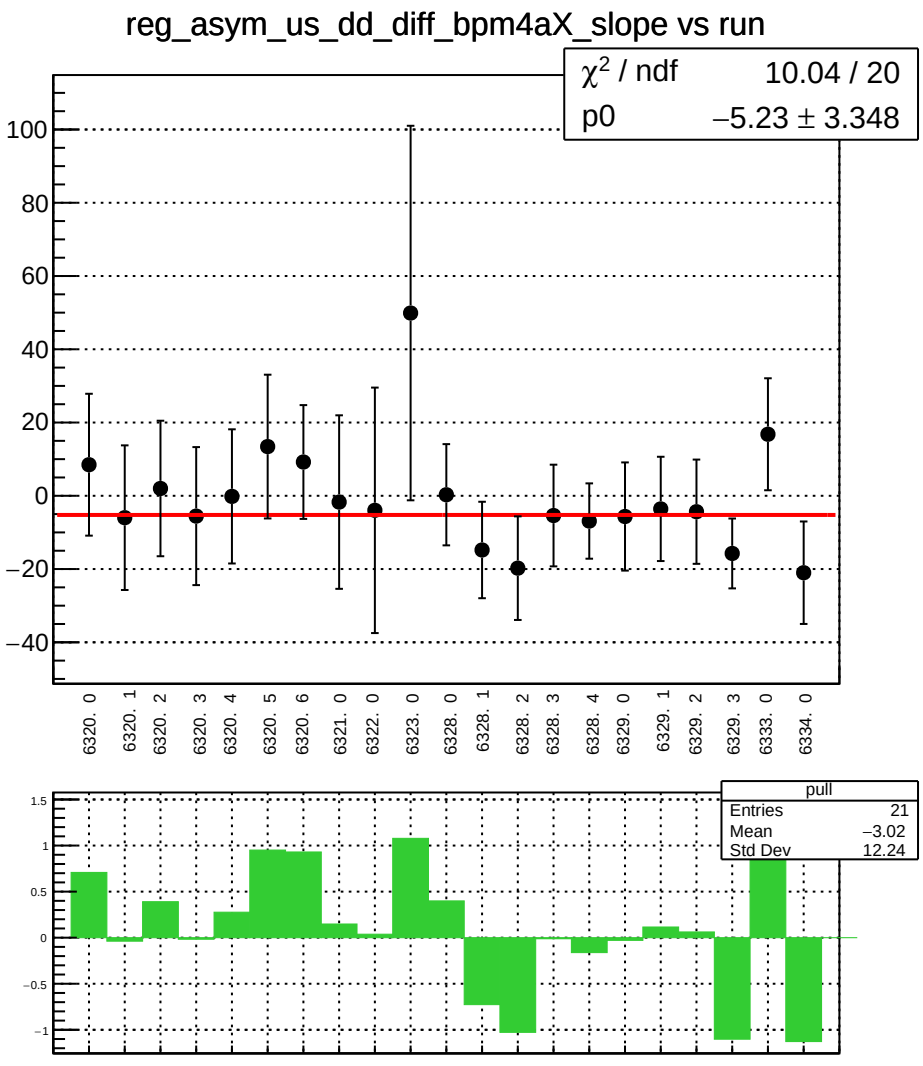

pull1D
Entries 21
Mean 0.0882
Std Dev 1.683
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

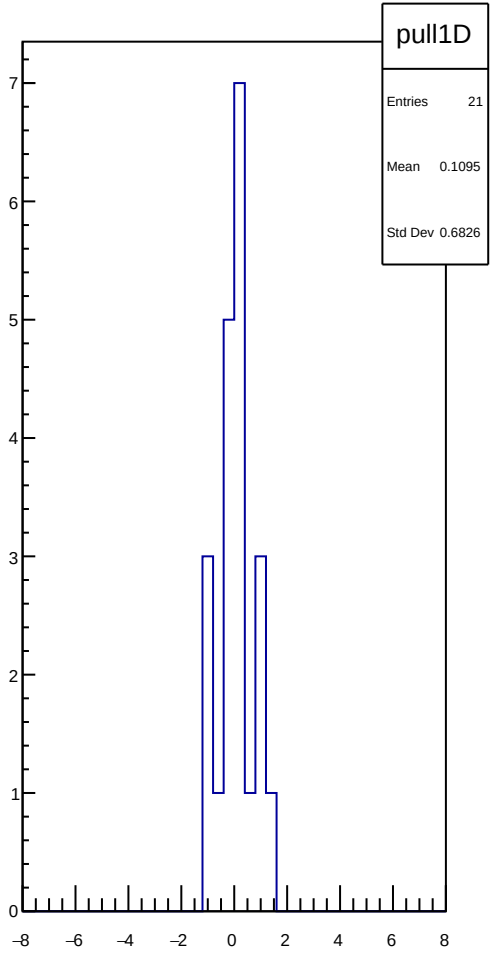

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.46 / 20
p0 9.264 ± 2.114
40
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 50.68
Std Dev 41.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1421
Std Dev 1.196
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

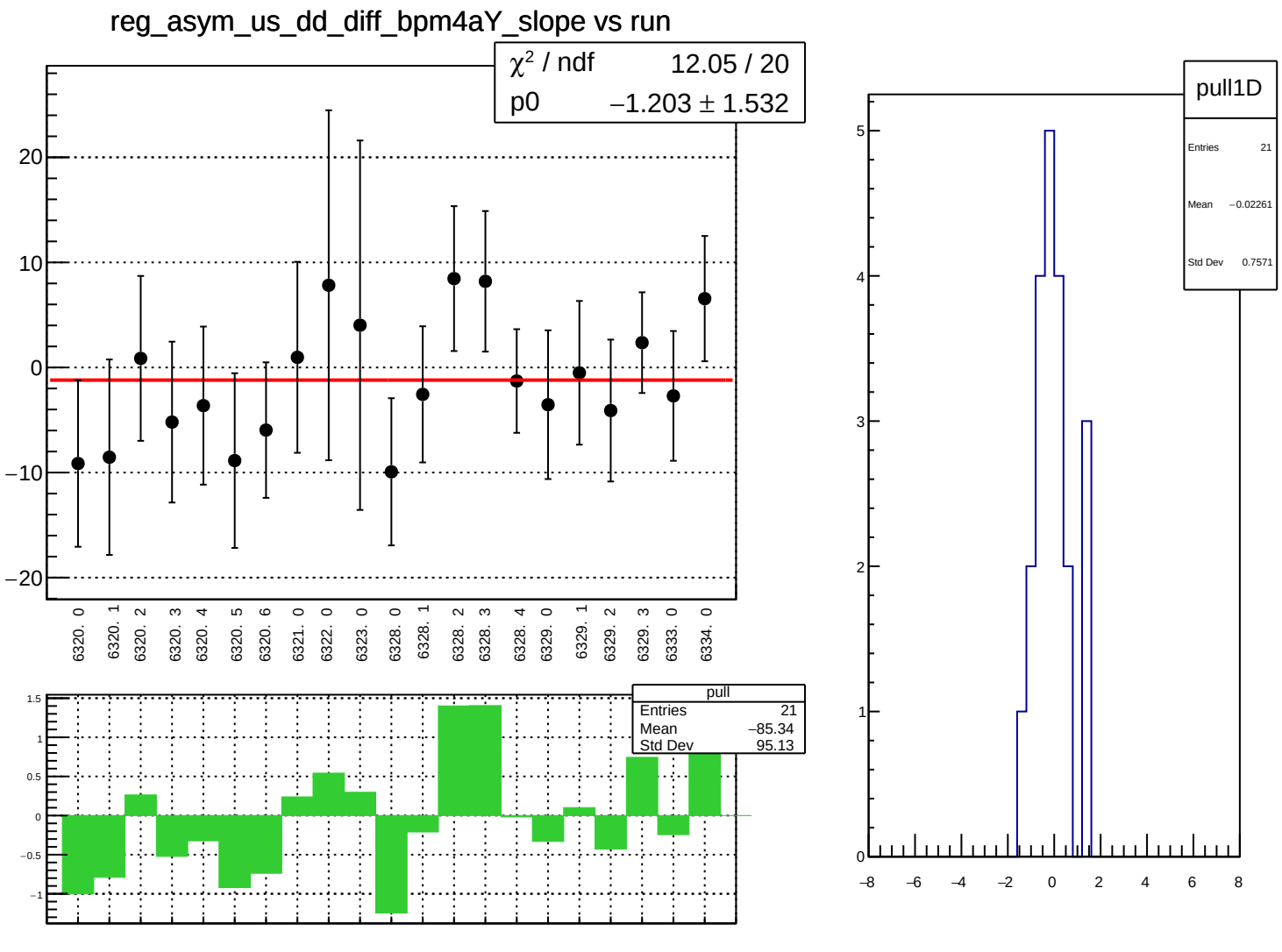

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.46 / 20
p0 122.7 ± 5.18
200
180
160
140
120
100
80
60
40
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 99.88
Std Dev 89.62
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.09592
Std Dev 1.68
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

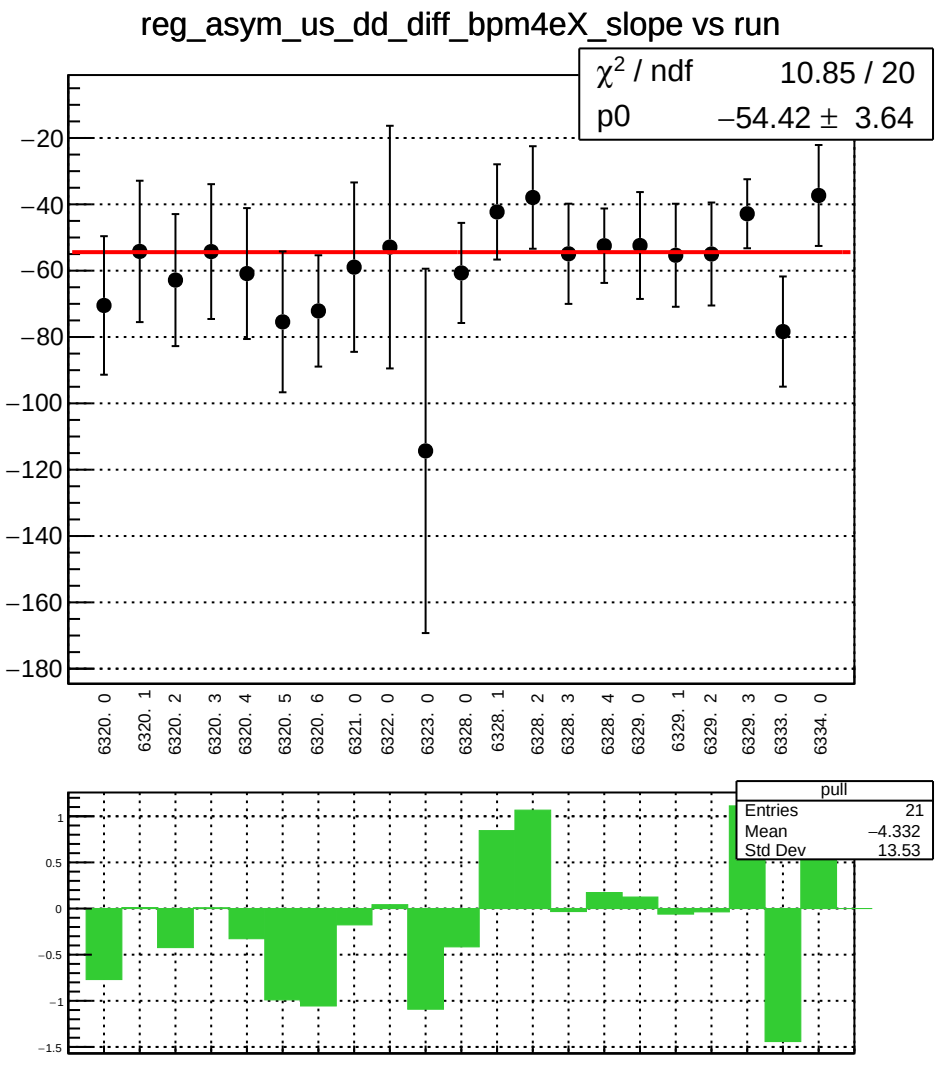

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.72 / 20
p0 3.346 ± 2.474
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 107.6
Std Dev 98.2
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.08891
Std Dev 1.753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

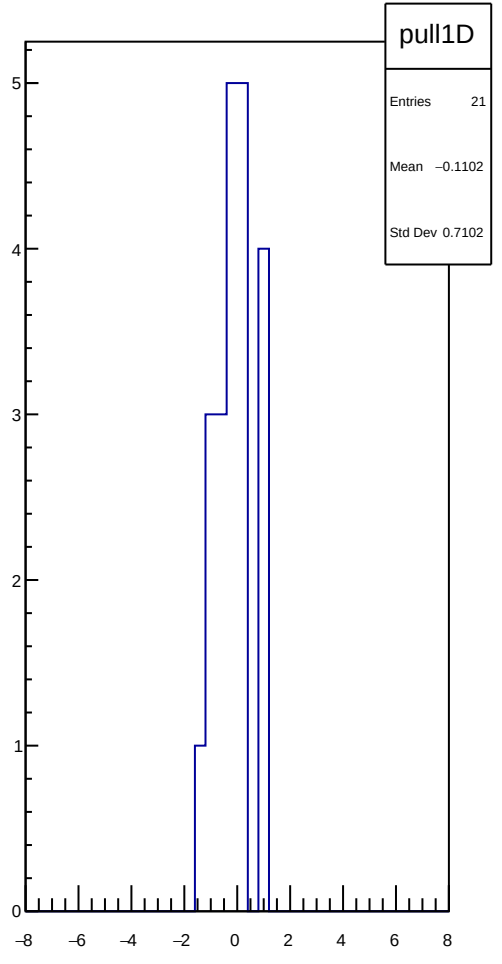

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 47.82 / 20
p0 −41.07 ± 0.1418
−34
−36
−38
−40
−42
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.65
Std Dev 24.15
pull1D
Entries 21
Mean 0.2823
Std Dev 1.482

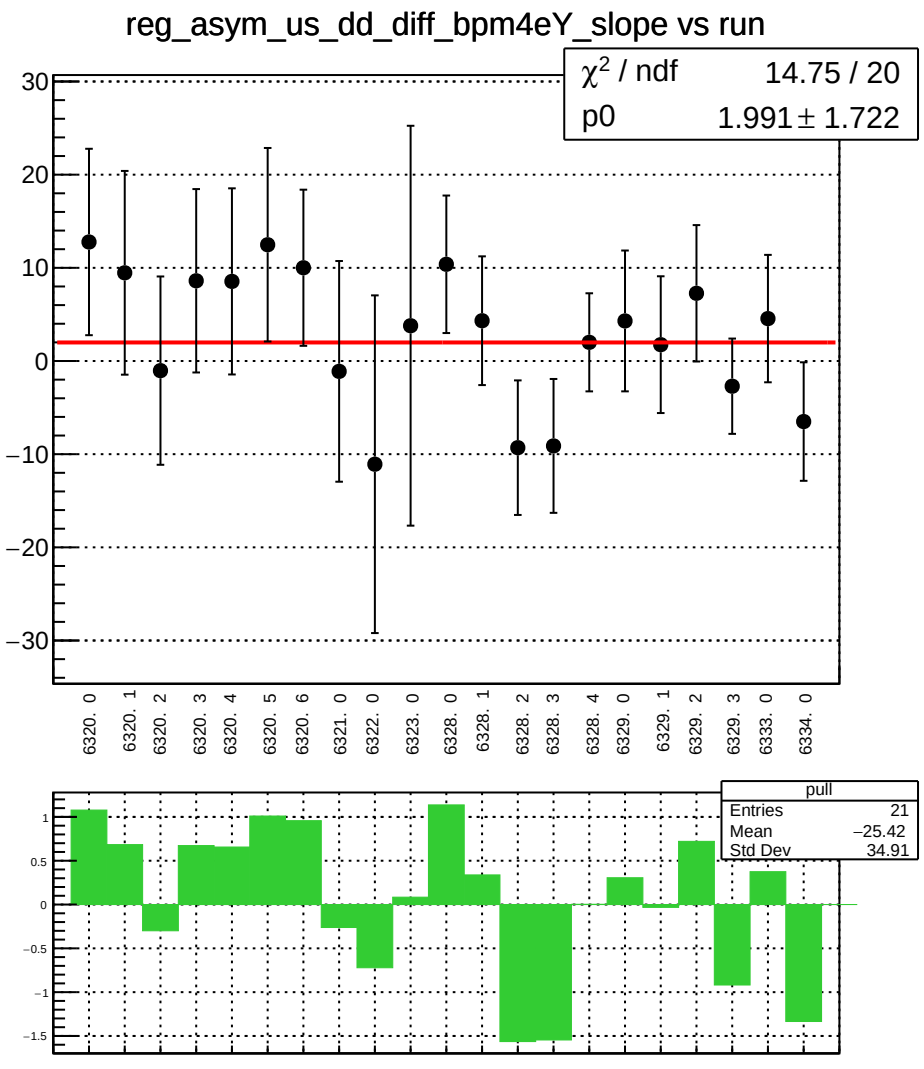

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.04 / 20
p0 −5.23 ± 3.348
100
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.02
Std Dev 12.24
1.5
1
0.5
0
−0.5
−1

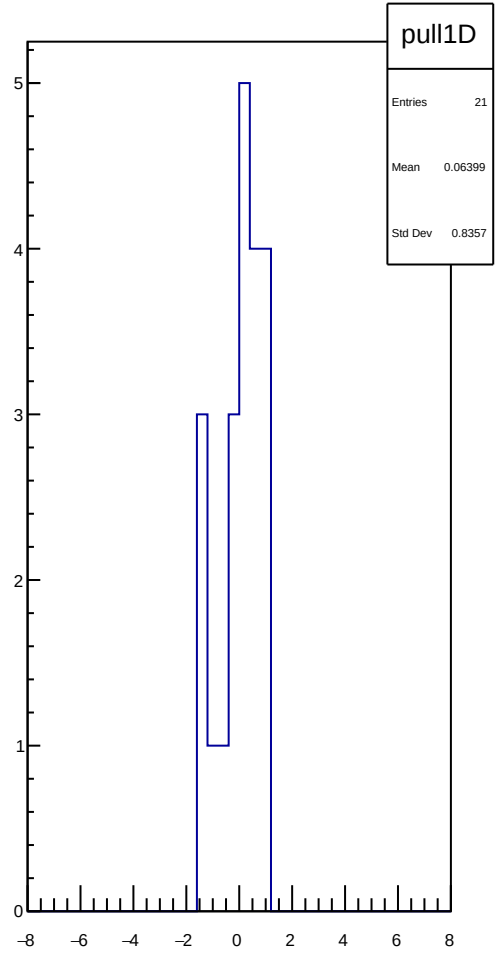

pull1D
Entries 21
Mean 0.1095
Std Dev 0.6826
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

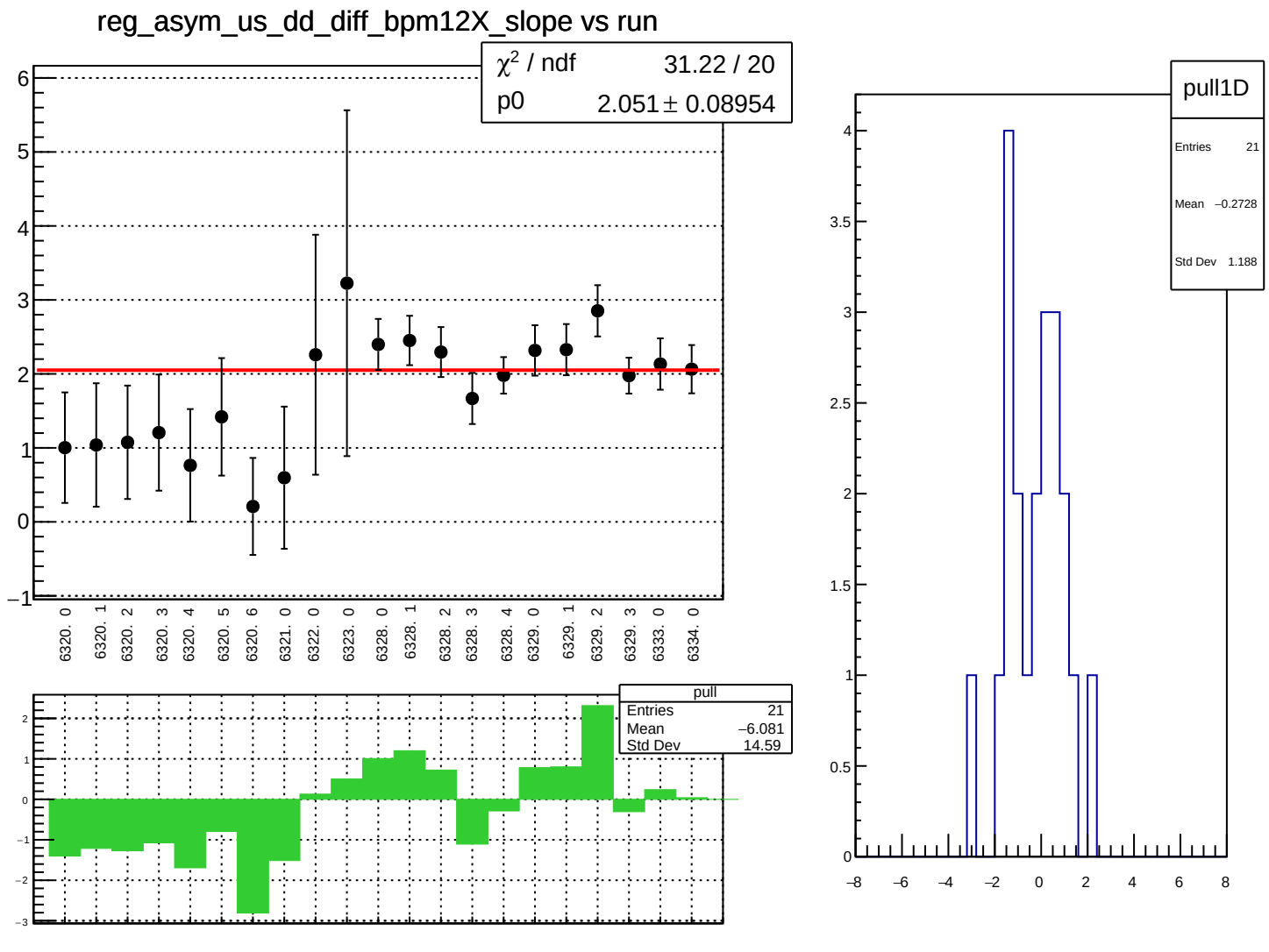

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.05 / 20
p0 −1.203 ± 1.532
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −85.34
Std Dev 95.13
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.02261
Std Dev 0.7571
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

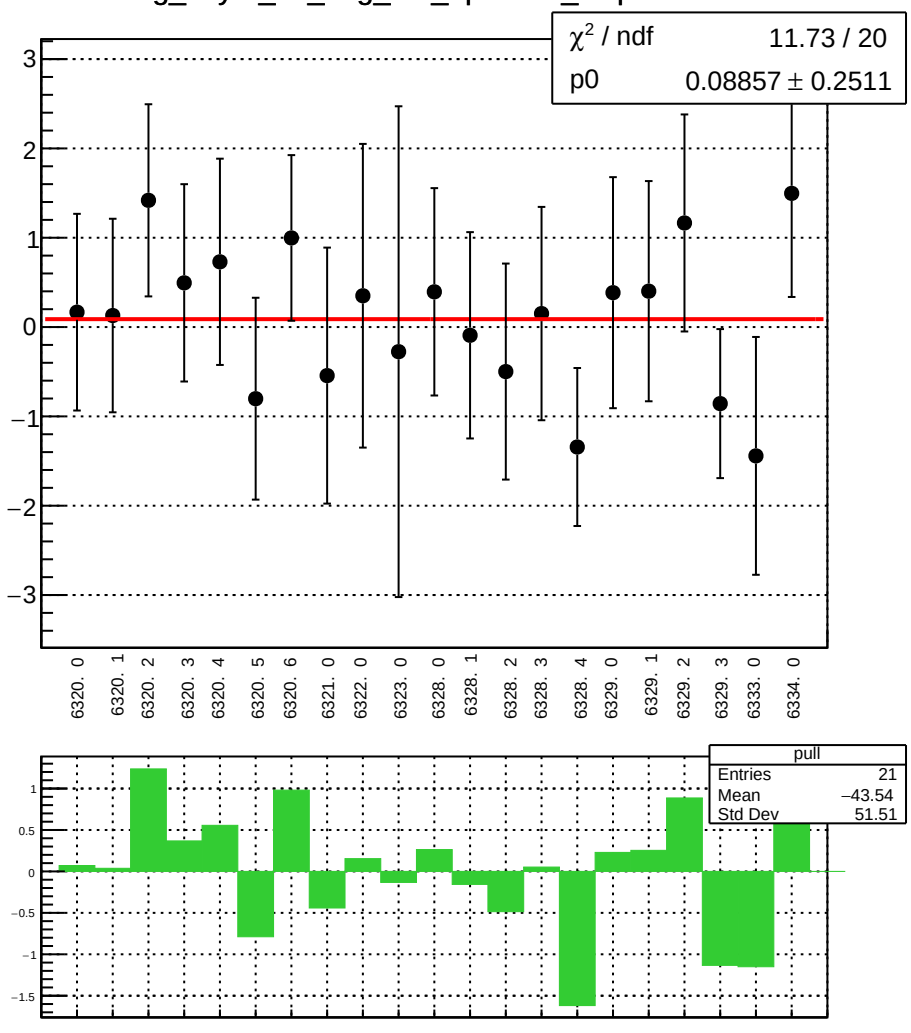

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.85 / 20
p0 −54.42 ± 3.64
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −4.332
Std Dev 13.53
1
0.5
0
−0.5
−1
−1.5

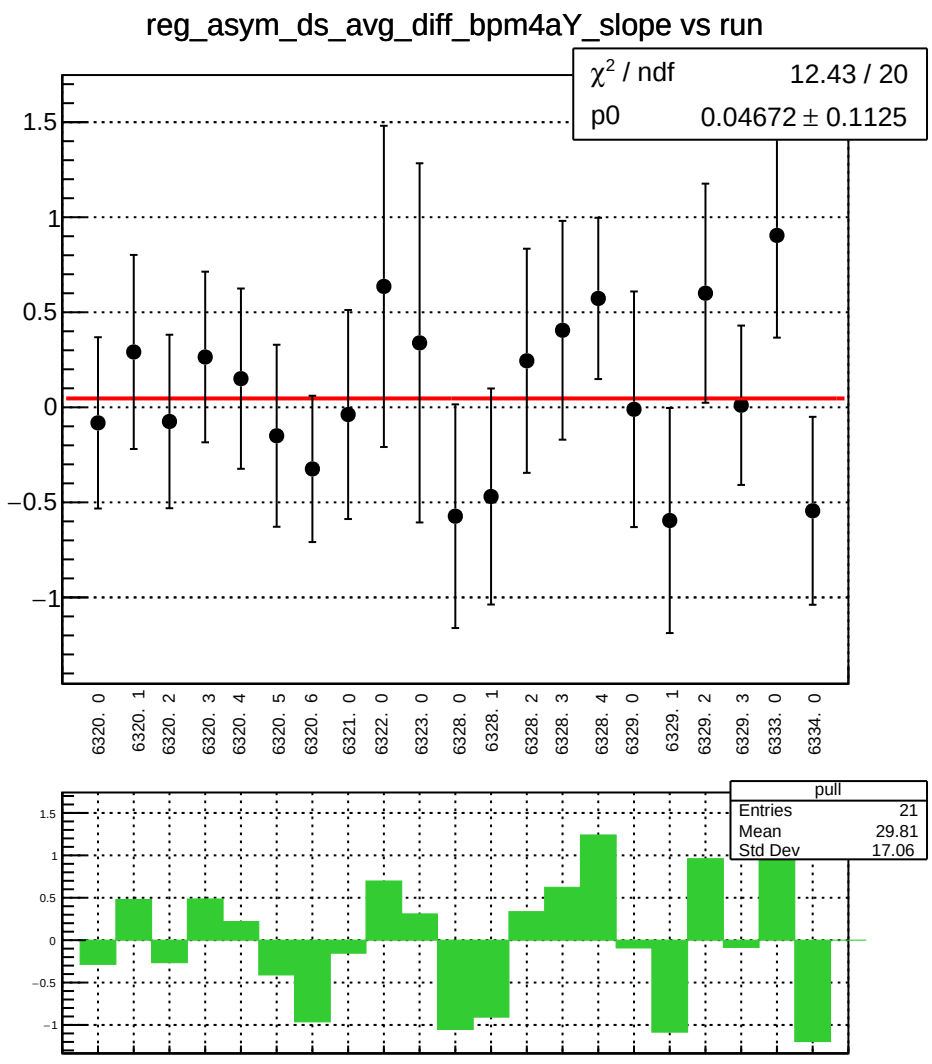

pull1D
Entries 21
Mean −0.1102
Std Dev 0.7102
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

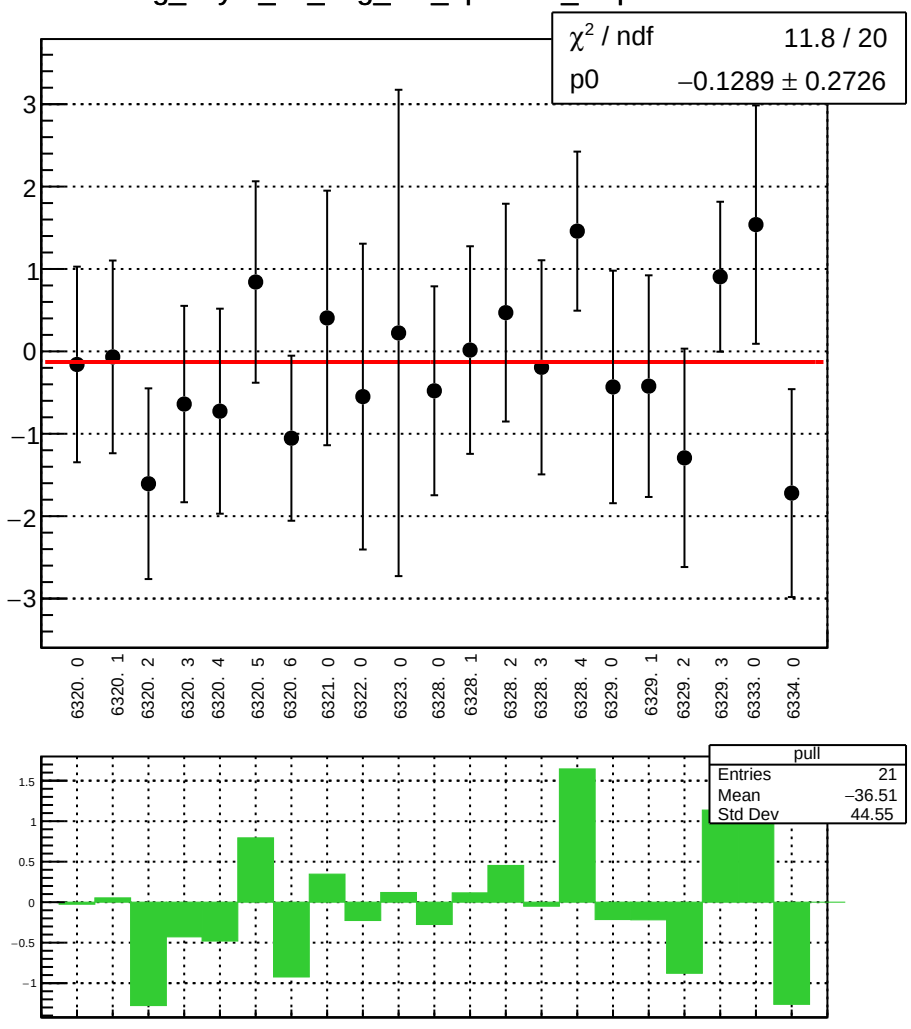

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.75 / 20
p0 1.991 ± 1.722
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.42
Std Dev 34.91
1
0.5
0
−0.5
−1
−1.5

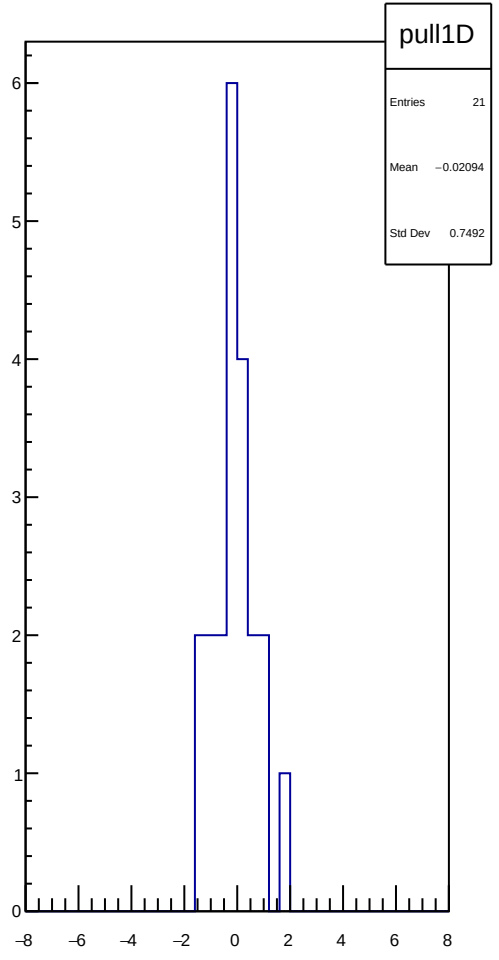

pull1D
Entries 21
Mean 0.06399
Std Dev 0.8357
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

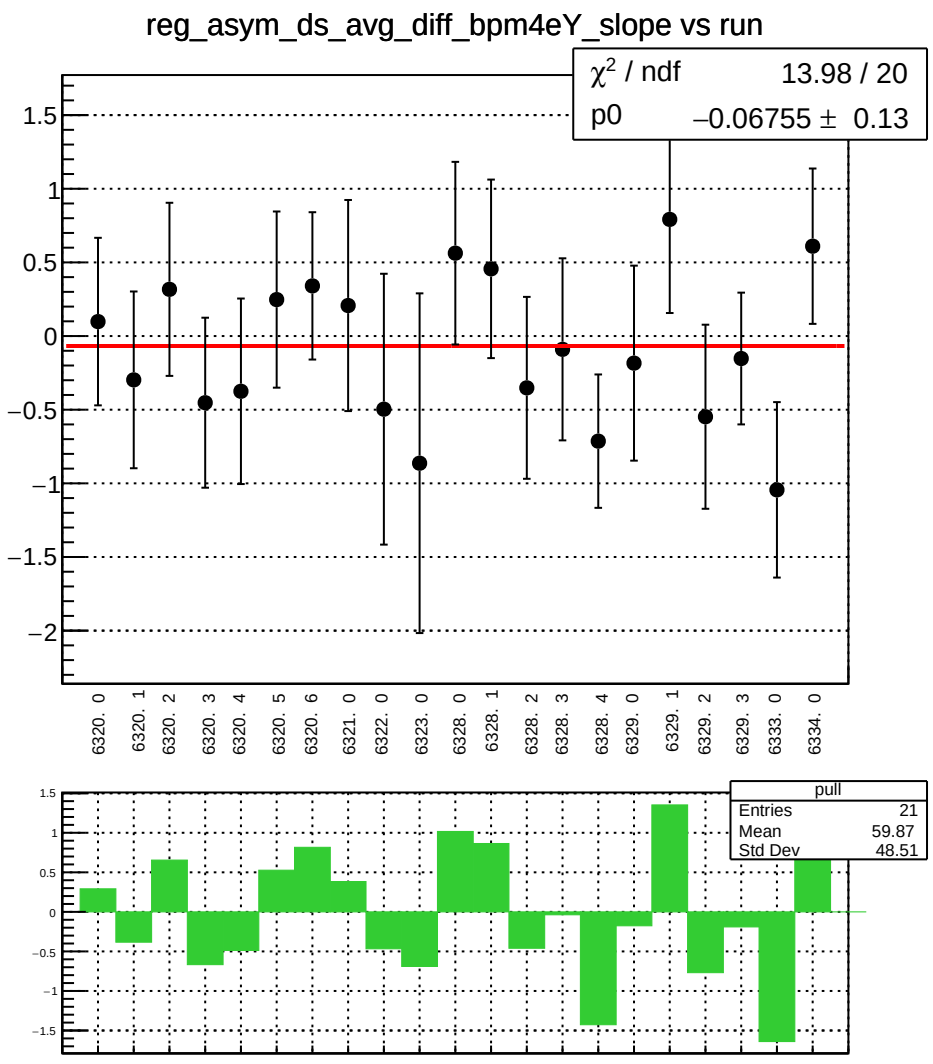

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 31.22 / 20
p0 2.051 ± 0.08954
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.081
Std Dev 14.59
pull1D
Entries 21
Mean −0.2728
Std Dev 1.188

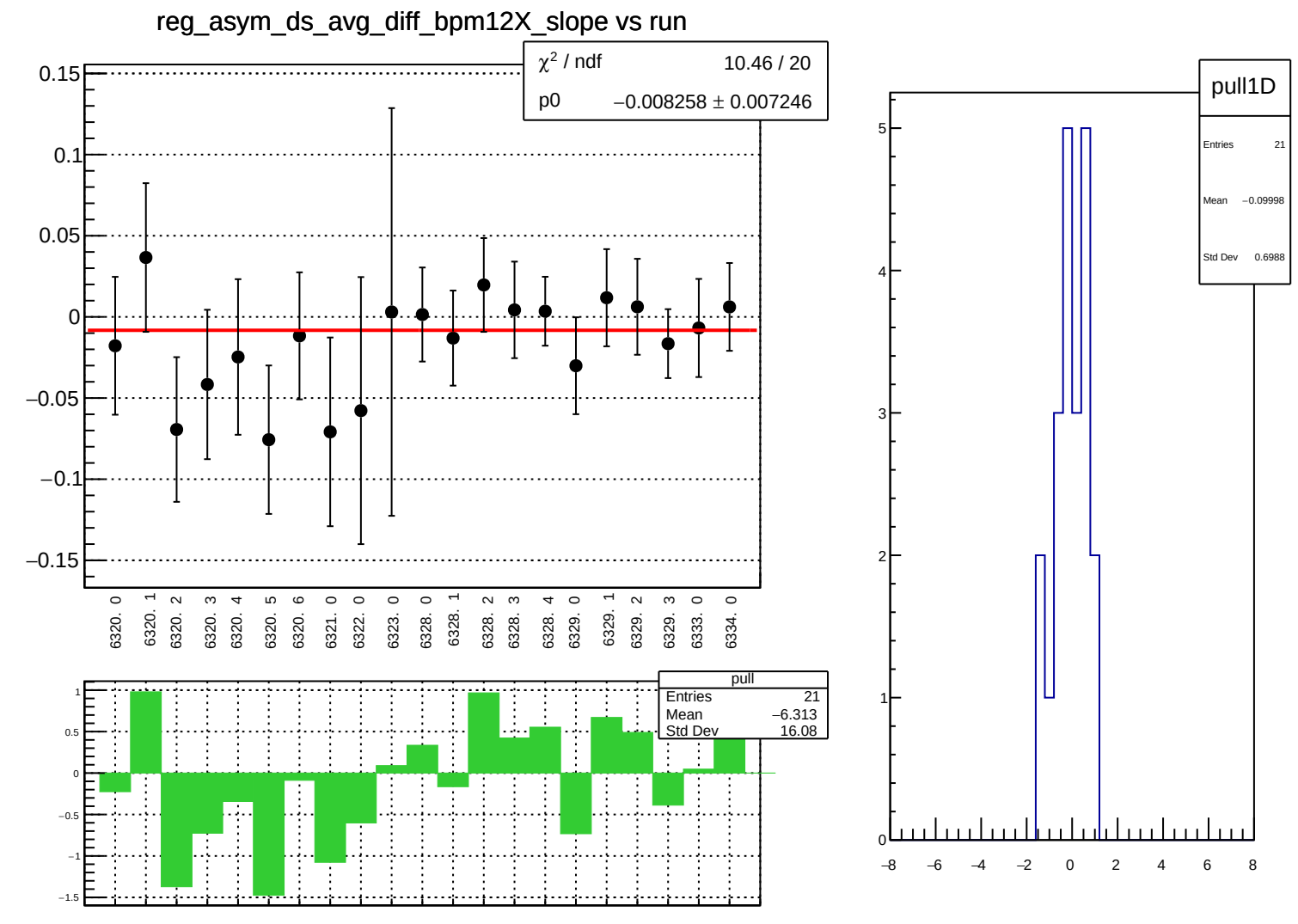

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.73 / 20
p0 0.08857 ± 0.2511
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −43.54
Std Dev 51.51
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01897
Std Dev 0.7473
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

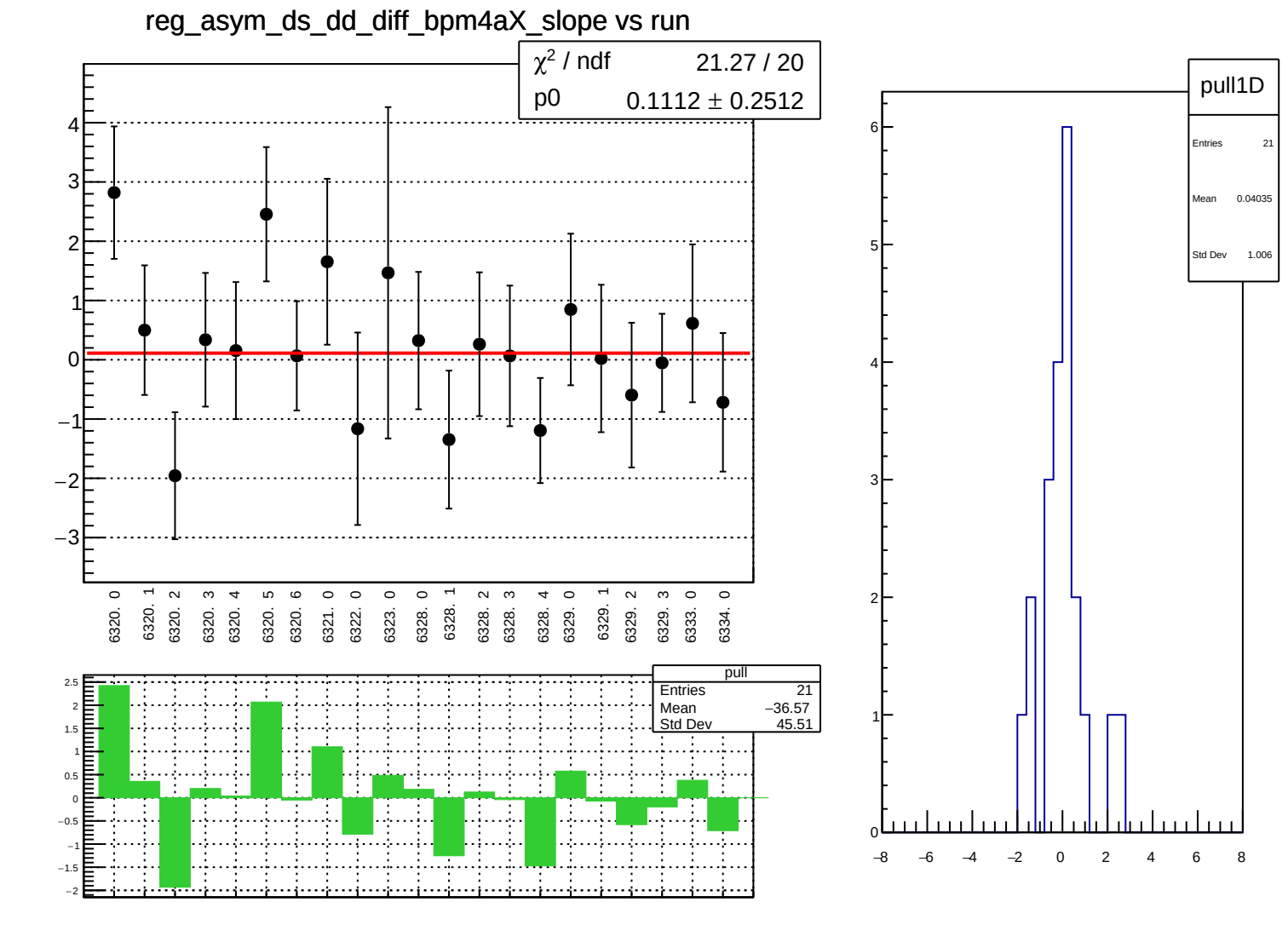

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 20
p0 0.04672 ± 0.1125
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 29.81
Std Dev 17.06
pull1D
Entries 21
Mean 0.02138
Std Dev 0.769
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

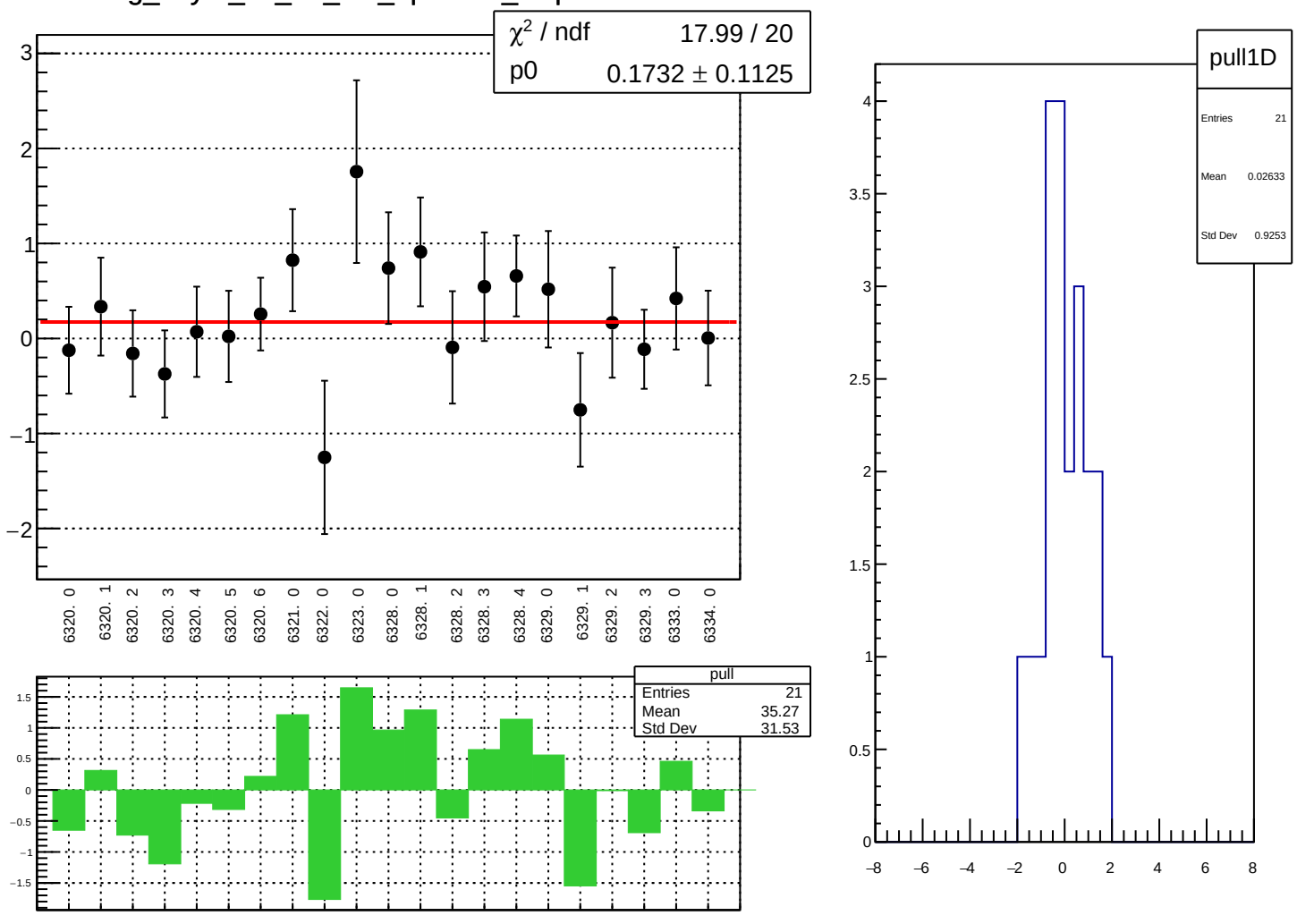

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.8 / 20
p0 −0.1289 ± 0.2726
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −36.51
Std Dev 44.55

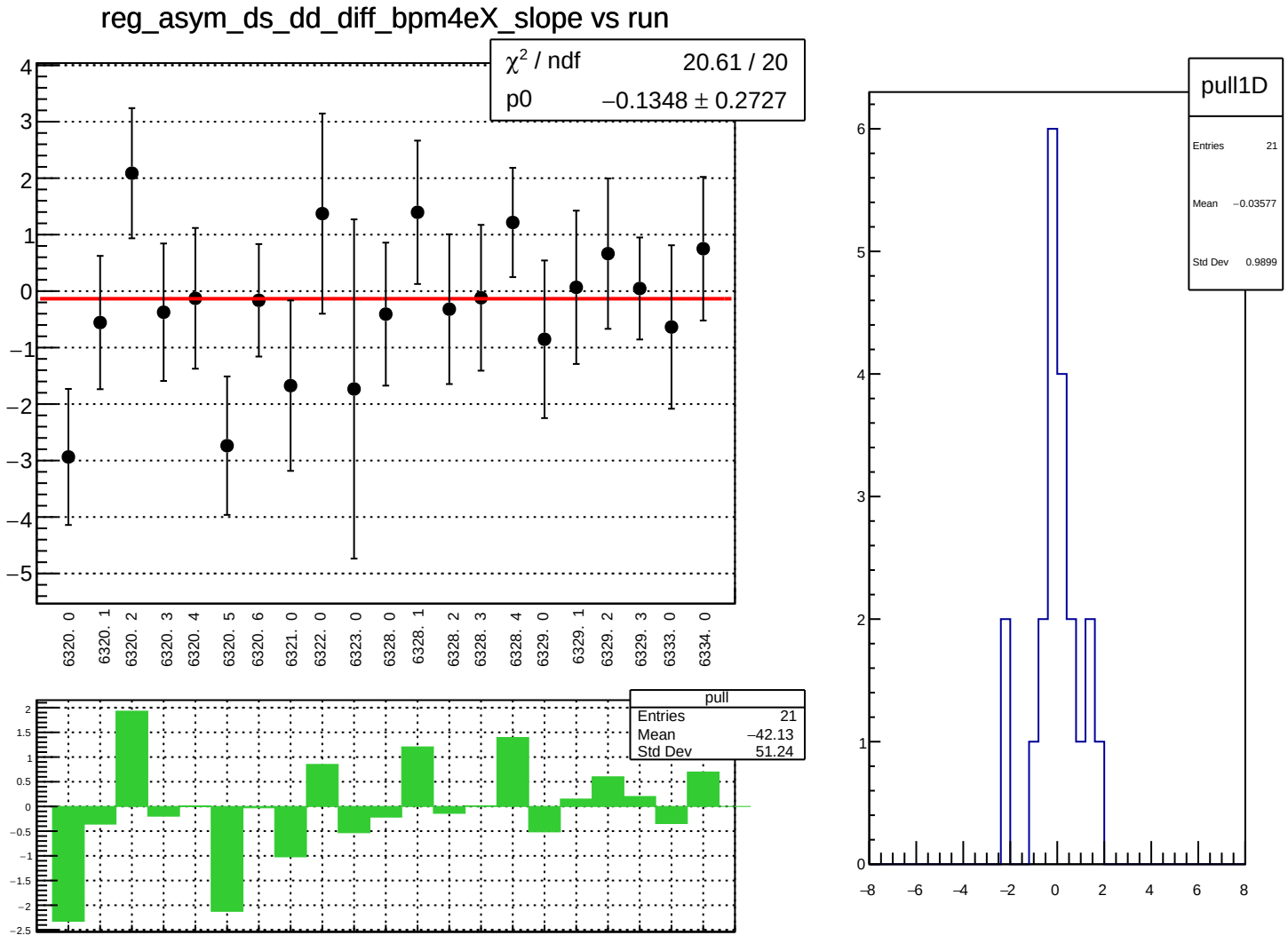

pull1D
Entries 21
Mean −0.02094
Std Dev 0.7492

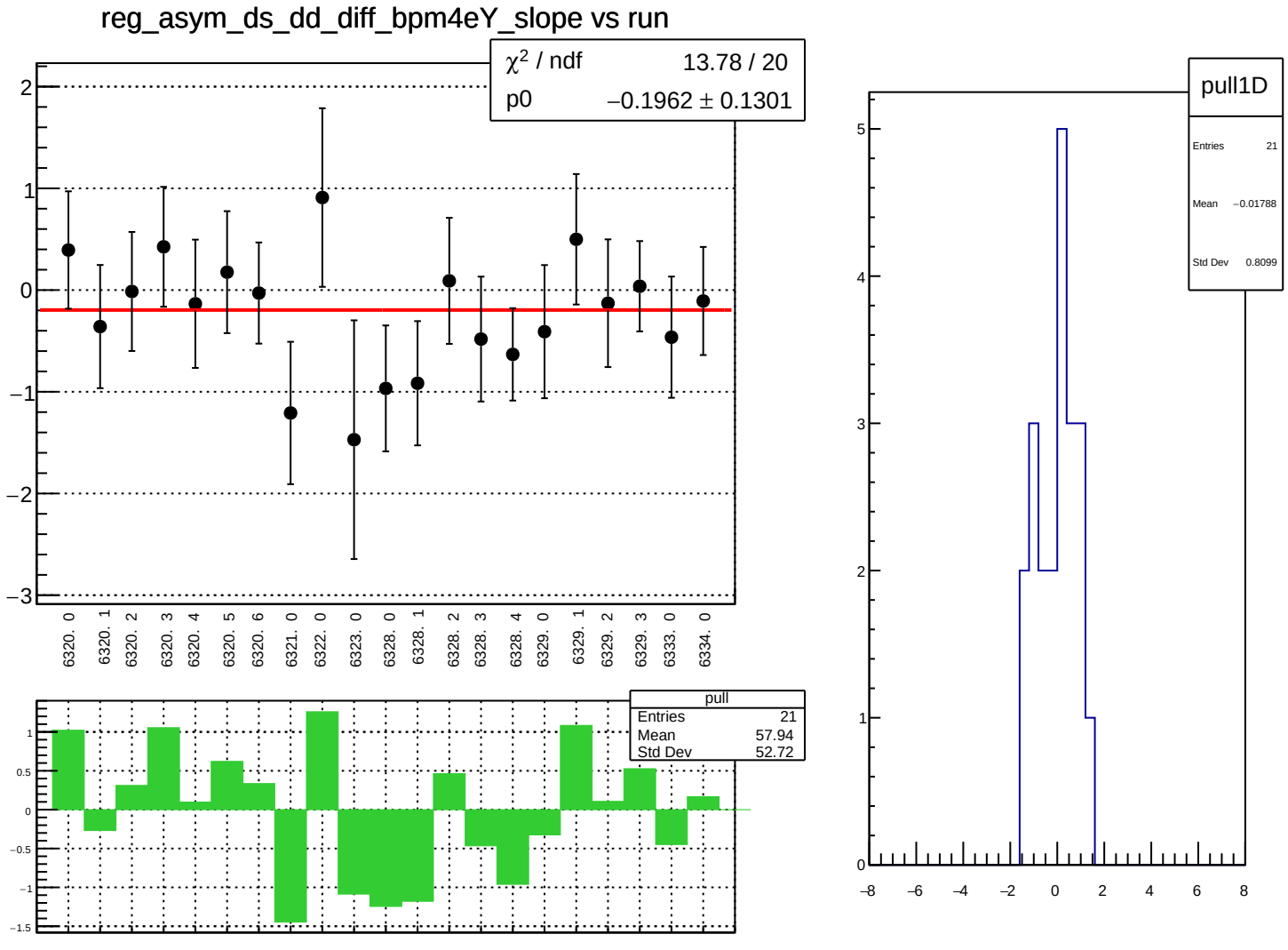

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.98 / 20
p0 −0.06755 ± 0.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.87
Std Dev 48.51
pull1D
Entries 21
Mean −0.009621
Std Dev 0.816
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

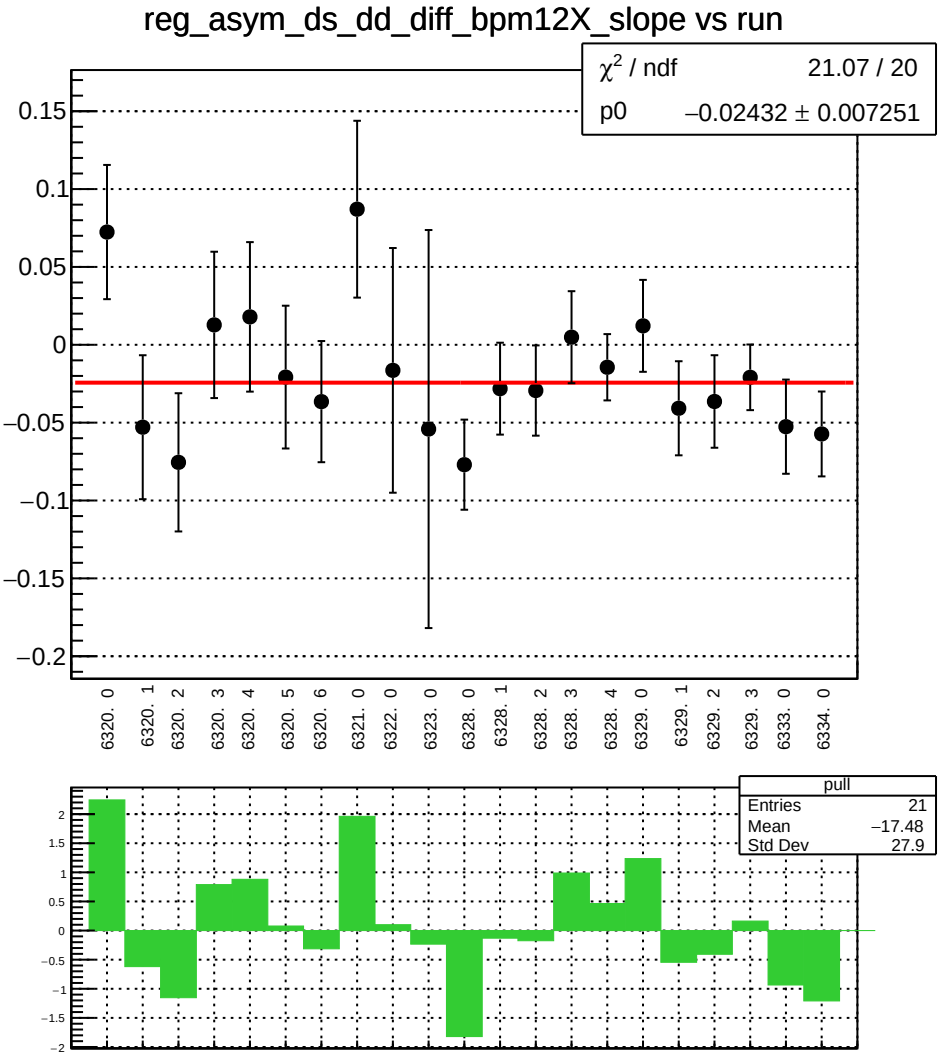

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 10.46 / 20
p0 −0.008258 ± 0.007246
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.313
Std Dev 16.08
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.09998
Std Dev 0.6988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

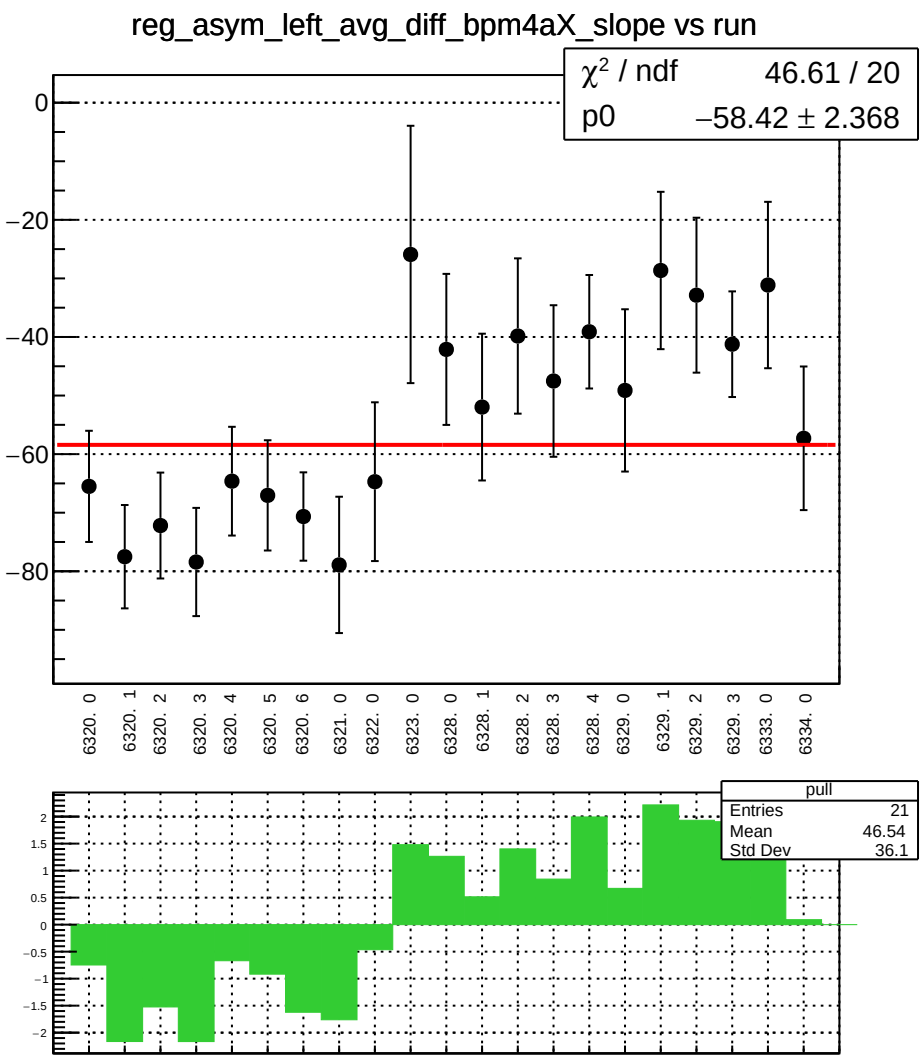

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.27 / 20
p0 0.1112 ± 0.2512
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −36.57
Std Dev 45.51
pull1D
Entries 21
Mean 0.04035
Std Dev 1.006

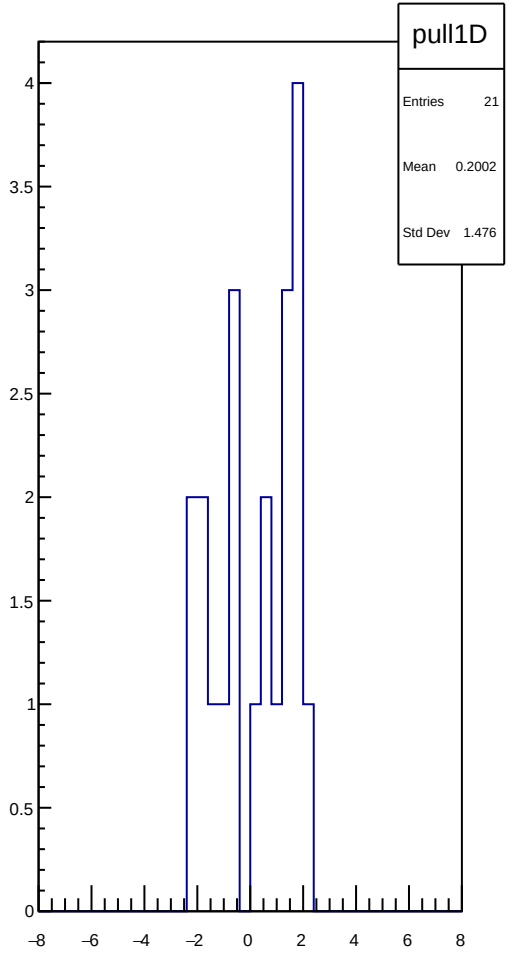

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.99 / 20
p0 0.1732 ± 0.1125
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 35.27
Std Dev 31.53
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02633
Std Dev 0.9253
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

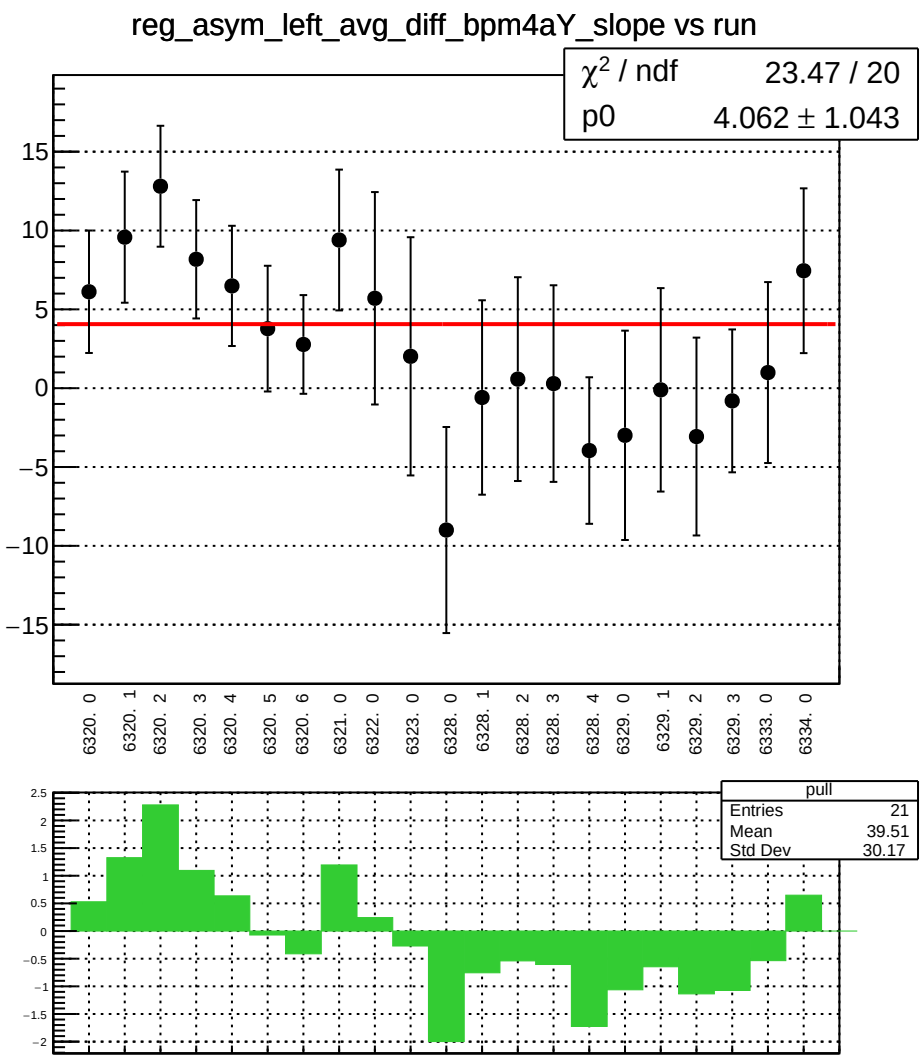

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.61 / 20
p0 −0.1348 ± 0.2727
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −42.13
Std Dev 51.24
pull1D
Entries 21
Mean −0.03577
Std Dev 0.9899

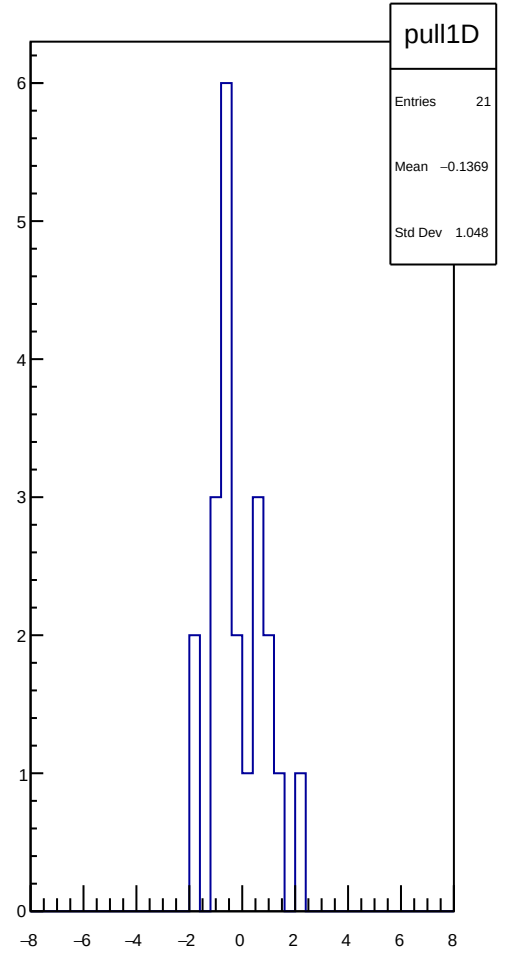

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.78 / 20
p0 −0.1962 ± 0.1301
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.94
Std Dev 52.72
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.01788
Std Dev 0.8099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

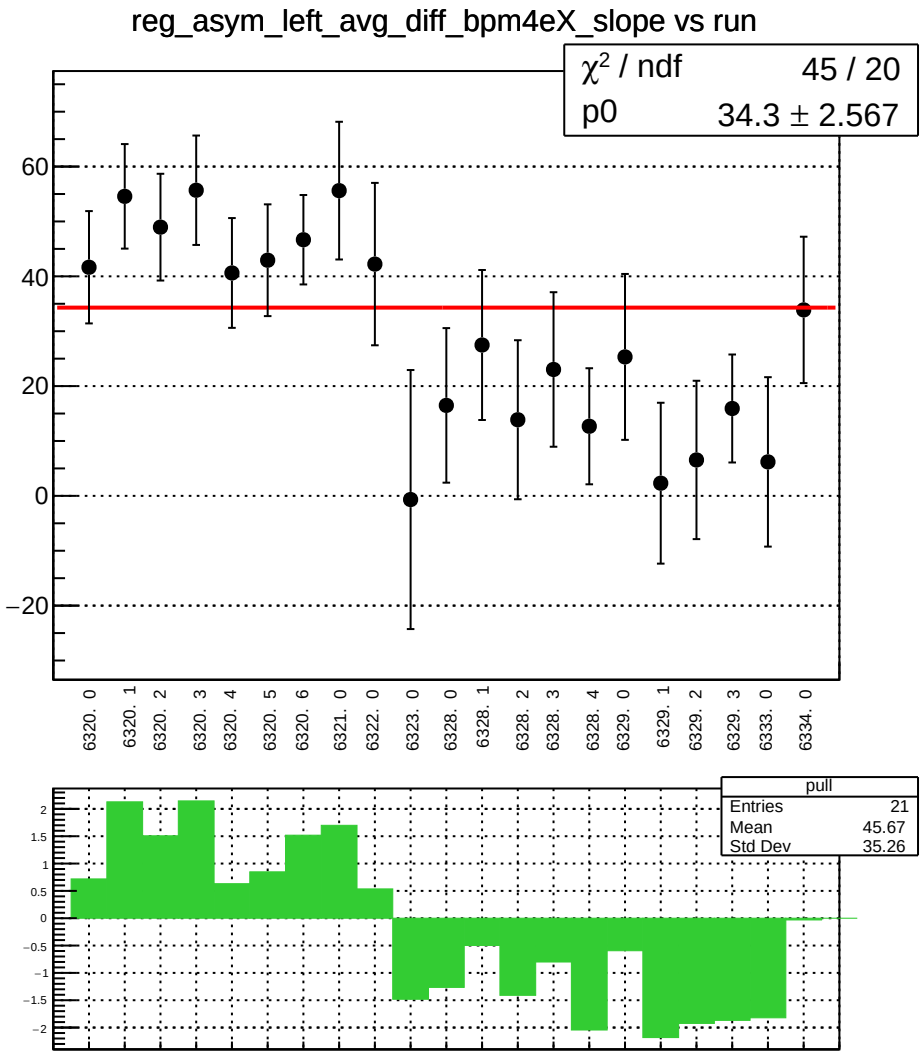

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 21.07 / 20
p0 −0.02432 ± 0.007251
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −17.48
Std Dev 27.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.06506
Std Dev 0.9995
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

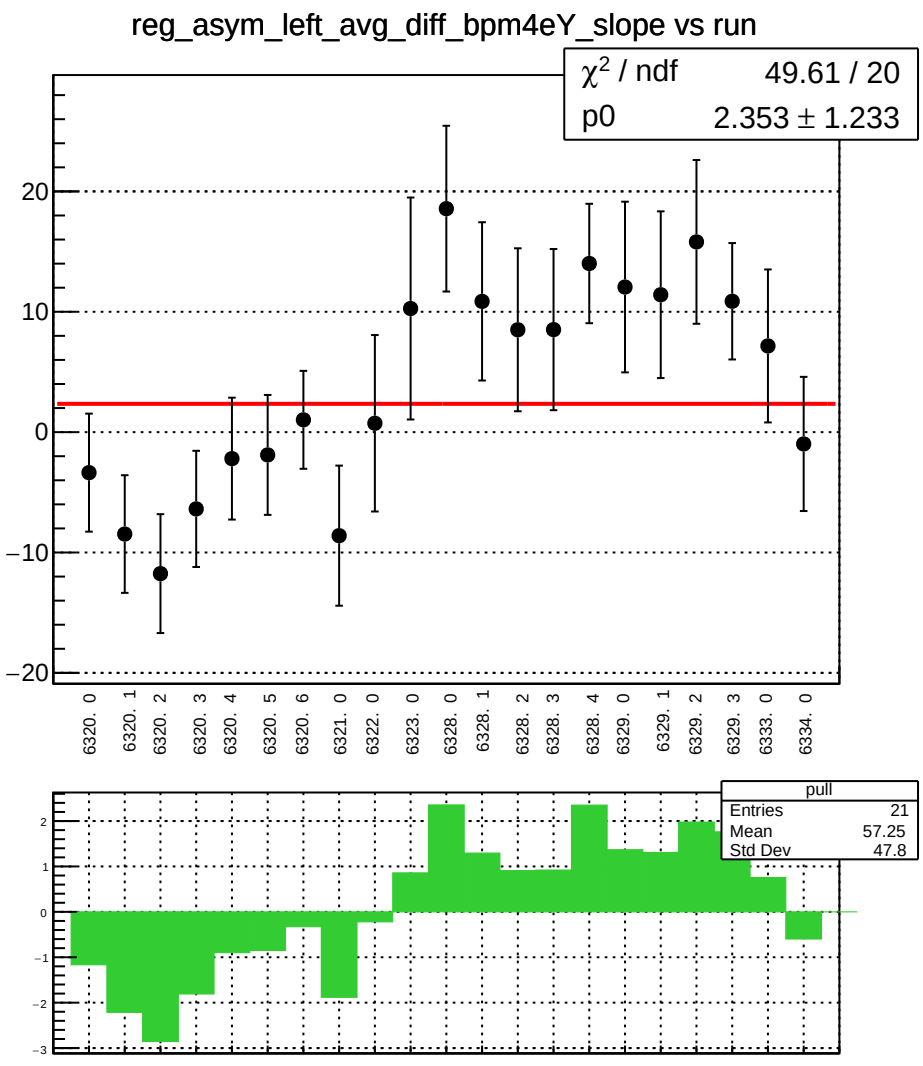

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.61 / 20
p0 −58.42 ± 2.368
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.54
Std Dev 36.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

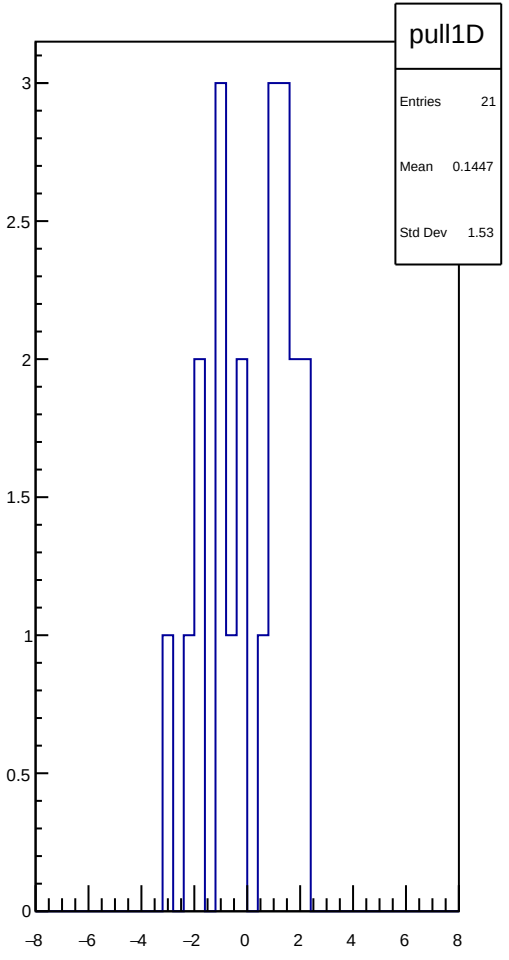

pull1D
Entries 21
Mean 0.2002
Std Dev 1.476
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

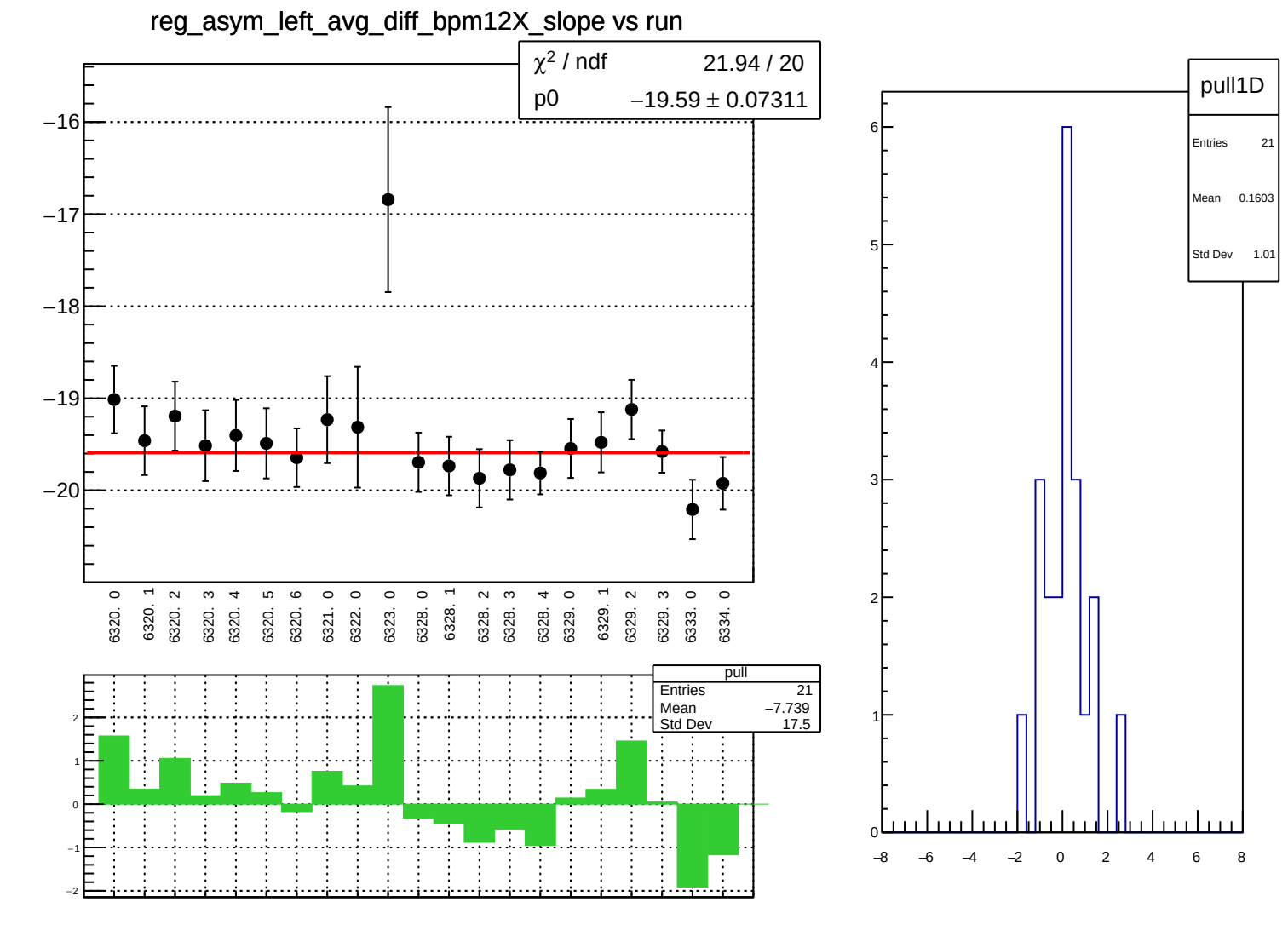

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.47 / 20
p0 4.062 ± 1.043
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 39.51
Std Dev 30.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

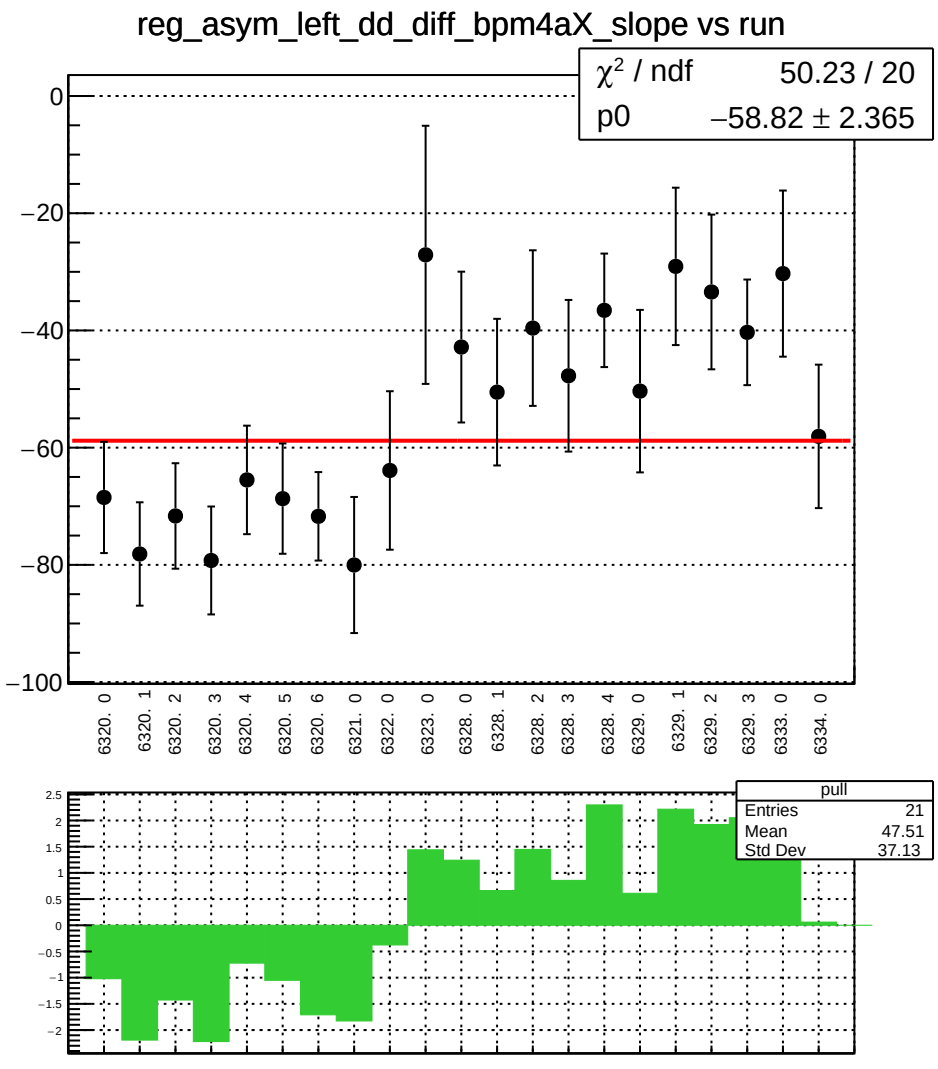

pull1D
Entries 21
Mean −0.1369
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

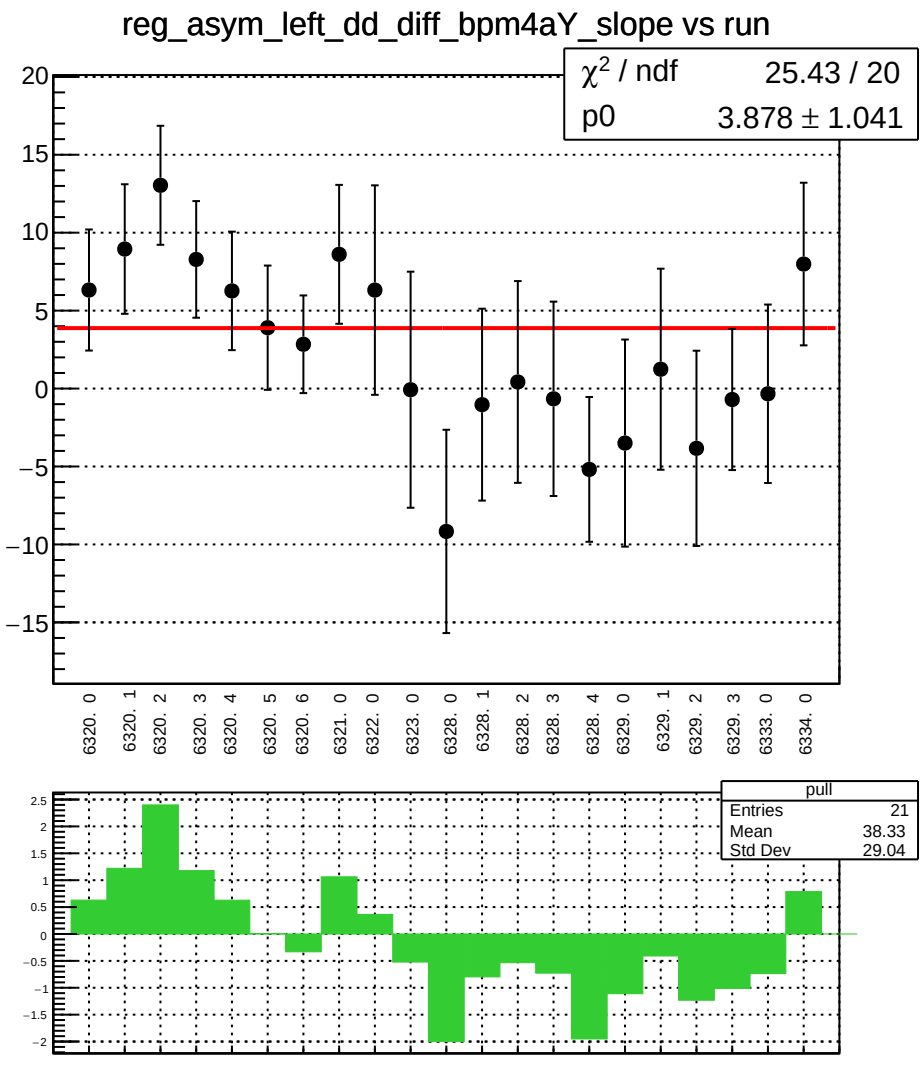

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45 / 20
p0 34.3 ± 2.567
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 45.67
Std Dev 35.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1994
Std Dev 1.45
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

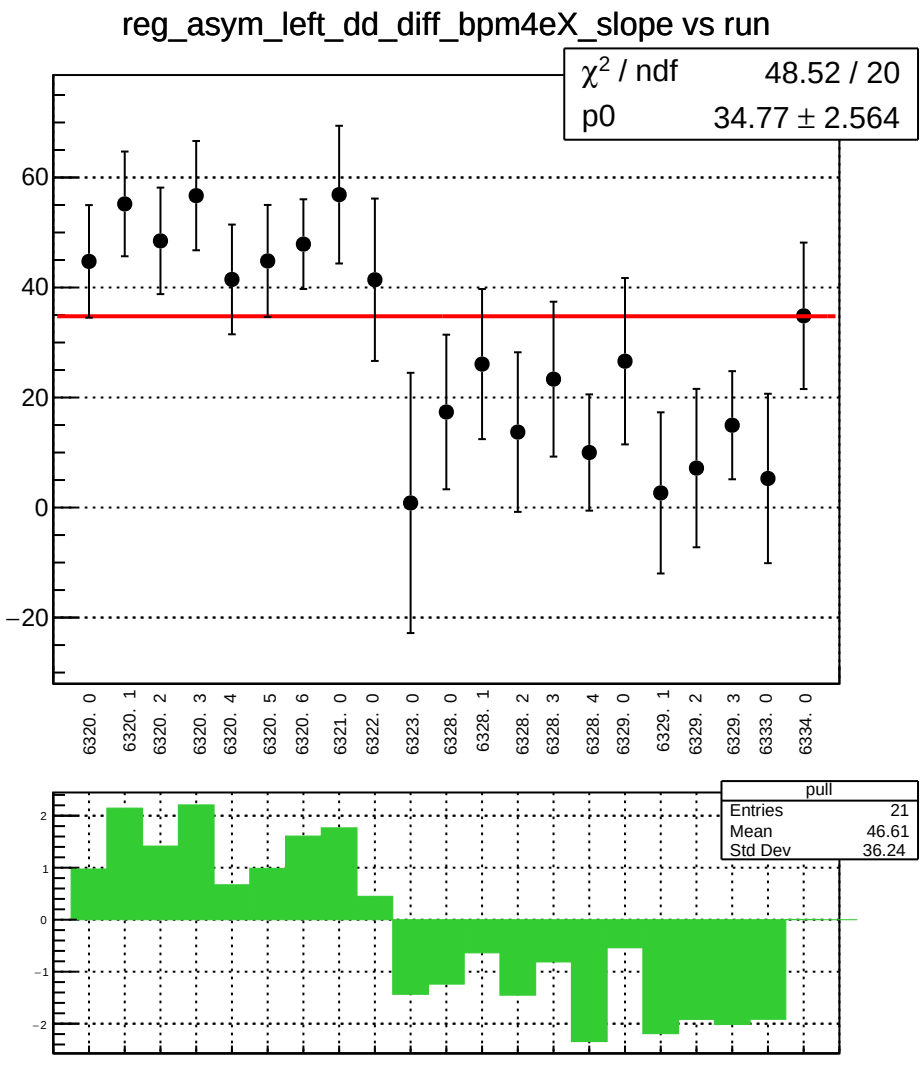

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.61 / 20
p0 2.353 ± 1.233
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.25
Std Dev 47.8
2
1
0
−1
−2
−3

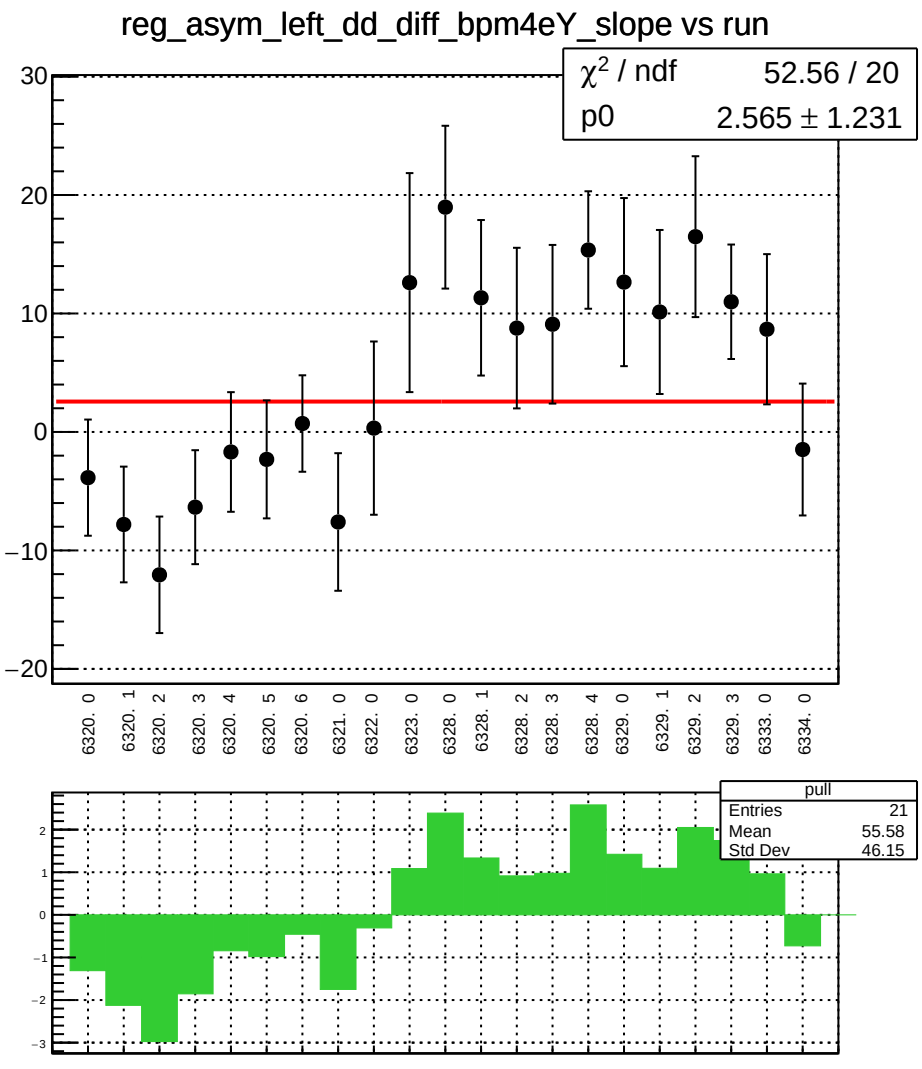

pull1D
Entries 21
Mean 0.1447
Std Dev 1.53
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

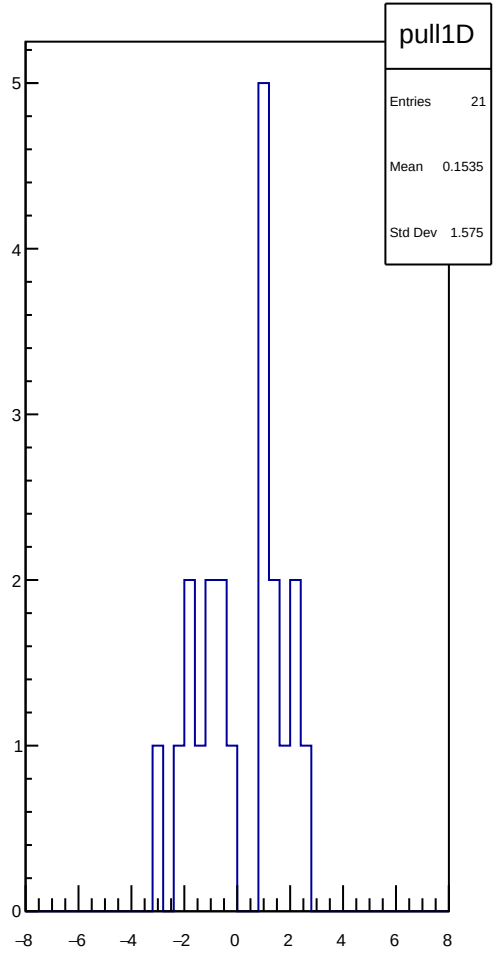

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 21.94 / 20
p0 −19.59 ± 0.07311
−16
−17
−18
−19
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.739
Std Dev 17.5
pull1D
Entries 21
Mean 0.1603
Std Dev 1.01

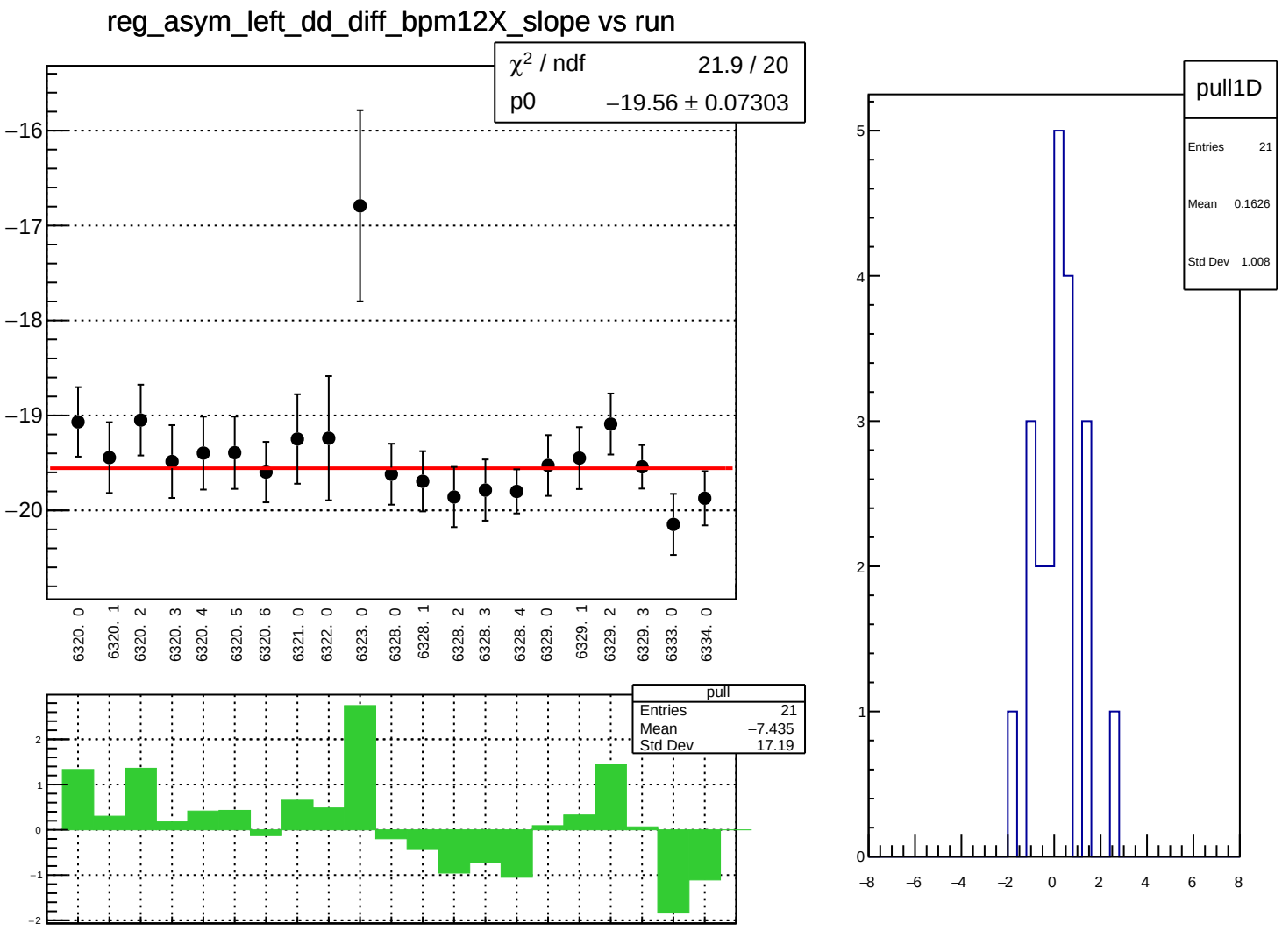

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.23 / 20
p0 −58.82 ± 2.365
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 47.51
Std Dev 37.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.2037
Std Dev 1.533
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

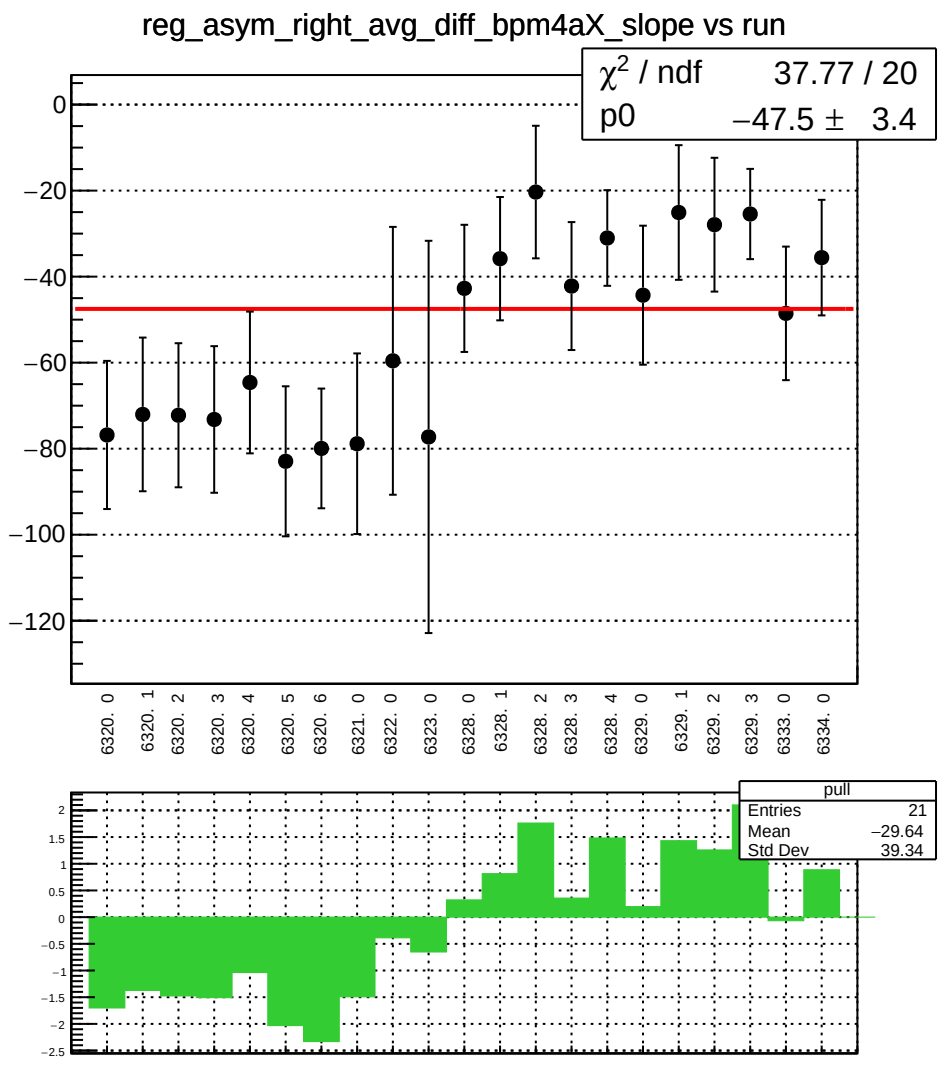

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.43 / 20
p0 3.878 ± 1.041
20
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 38.33
Std Dev 29.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.147
Std Dev 1.091
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

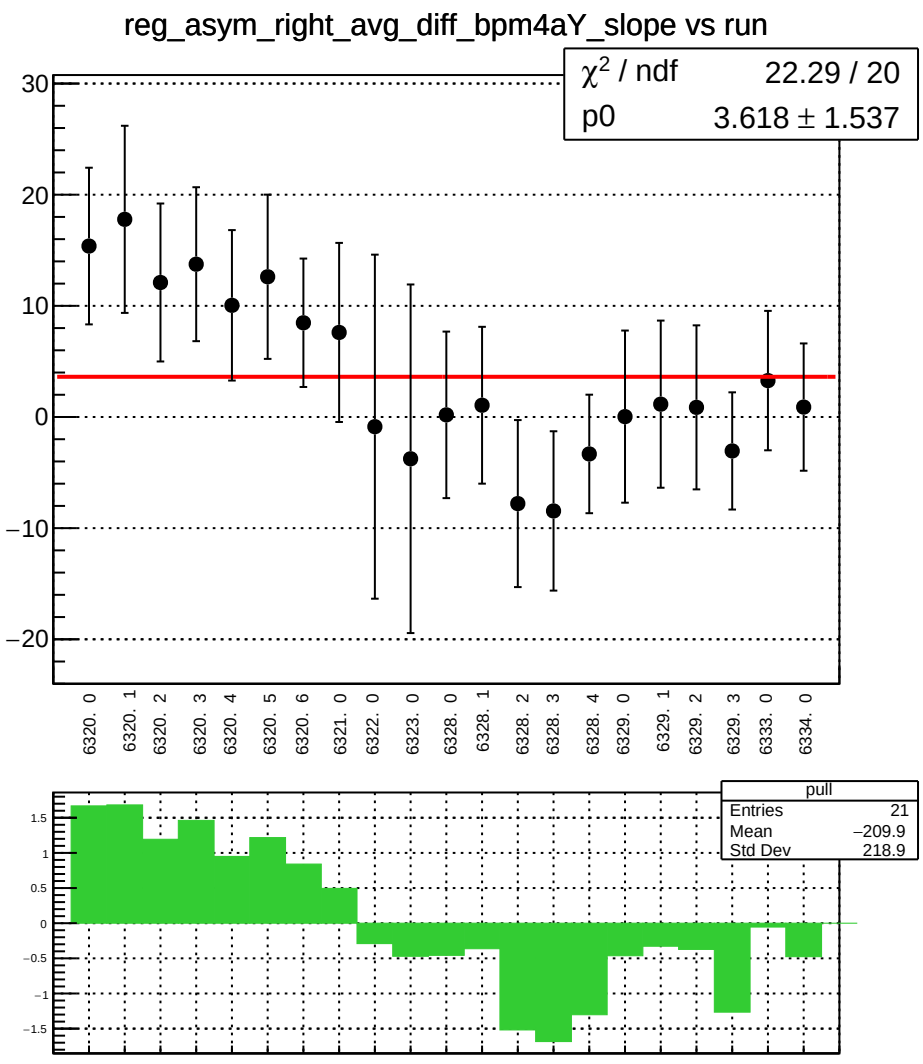

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.52 / 20
p0 34.77 ± 2.564
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.61
Std Dev 36.24
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.203
Std Dev 1.506
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

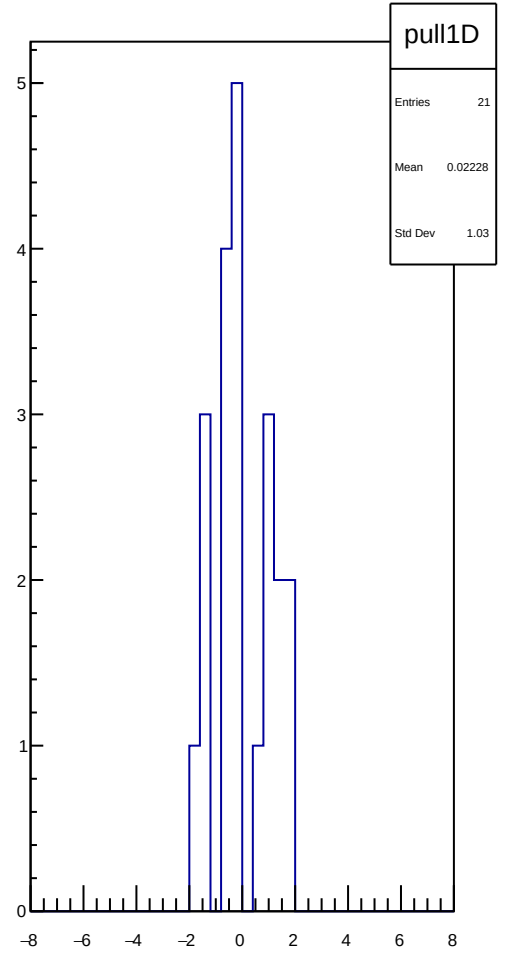

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.56 / 20
p0 2.565 ± 1.231
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 55.58
Std Dev 46.15
2
1
0
−1
−2
−3

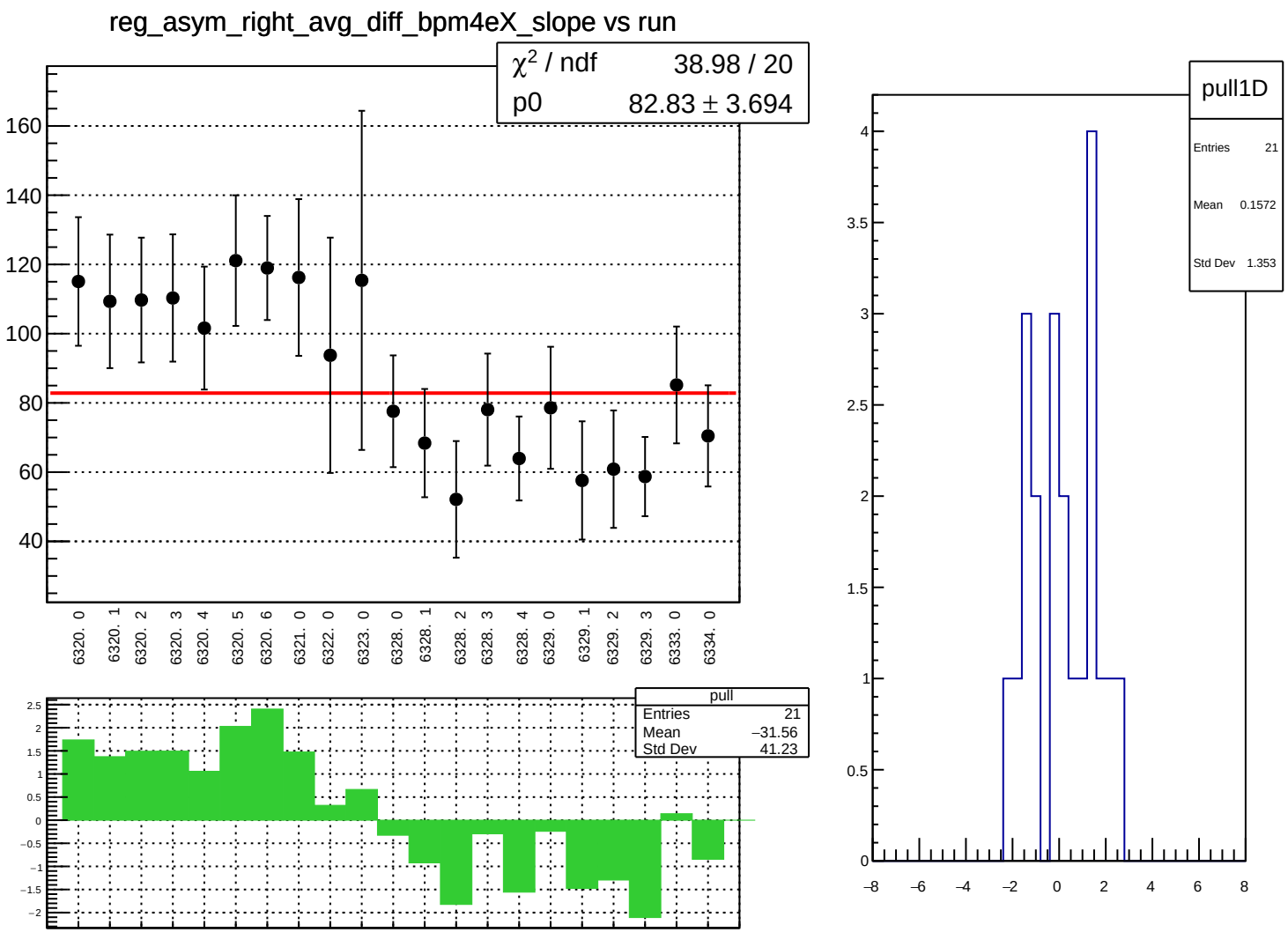

pull1D
Entries 21
Mean 0.1535
Std Dev 1.575
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

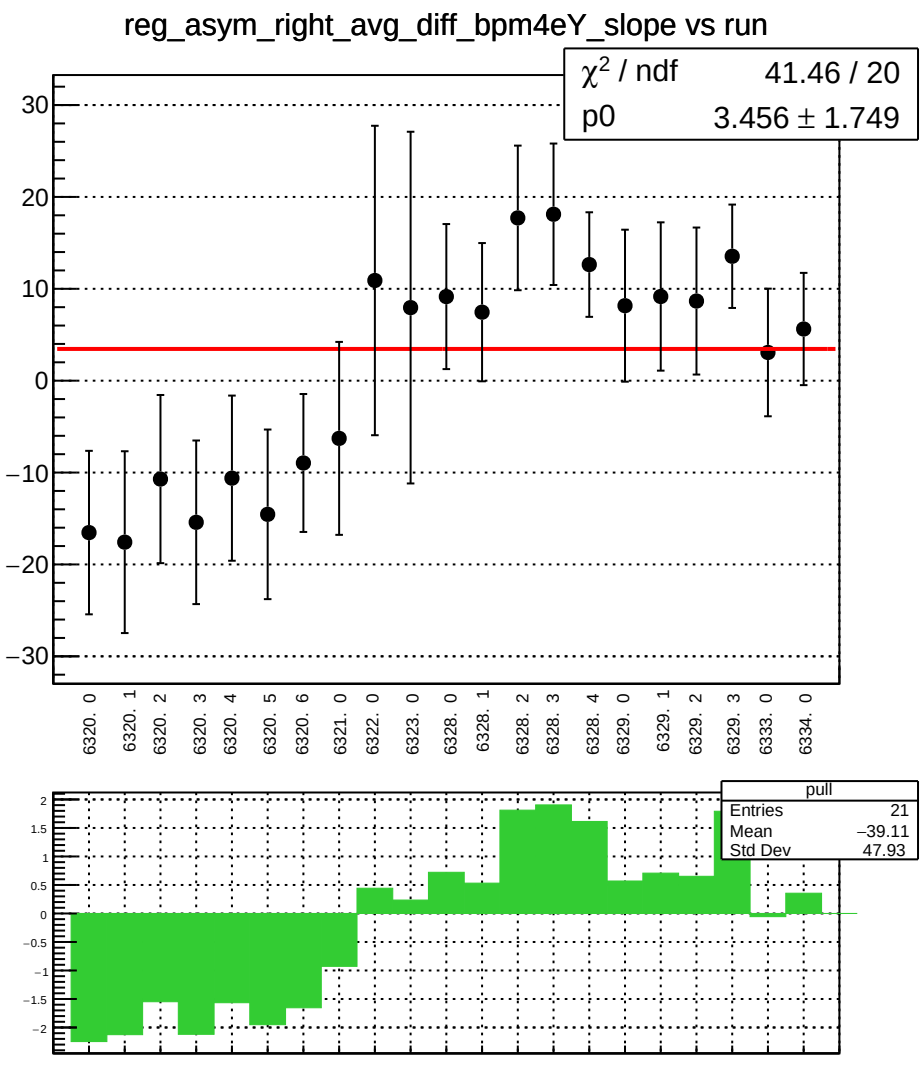

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 21.9 / 20
p0 −19.56 ± 0.07303
−16
−17
−18
−19
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.435
Std Dev 17.19
pull1D
Entries 21
Mean 0.1626
Std Dev 1.008

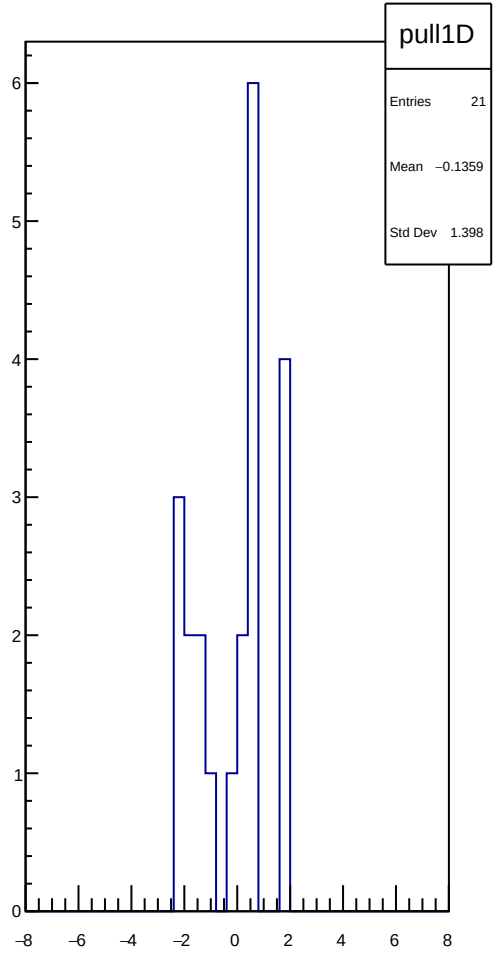

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.77 / 20
p0 −47.5 ± 3.4
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.64
Std Dev 39.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.1639
Std Dev 1.331
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

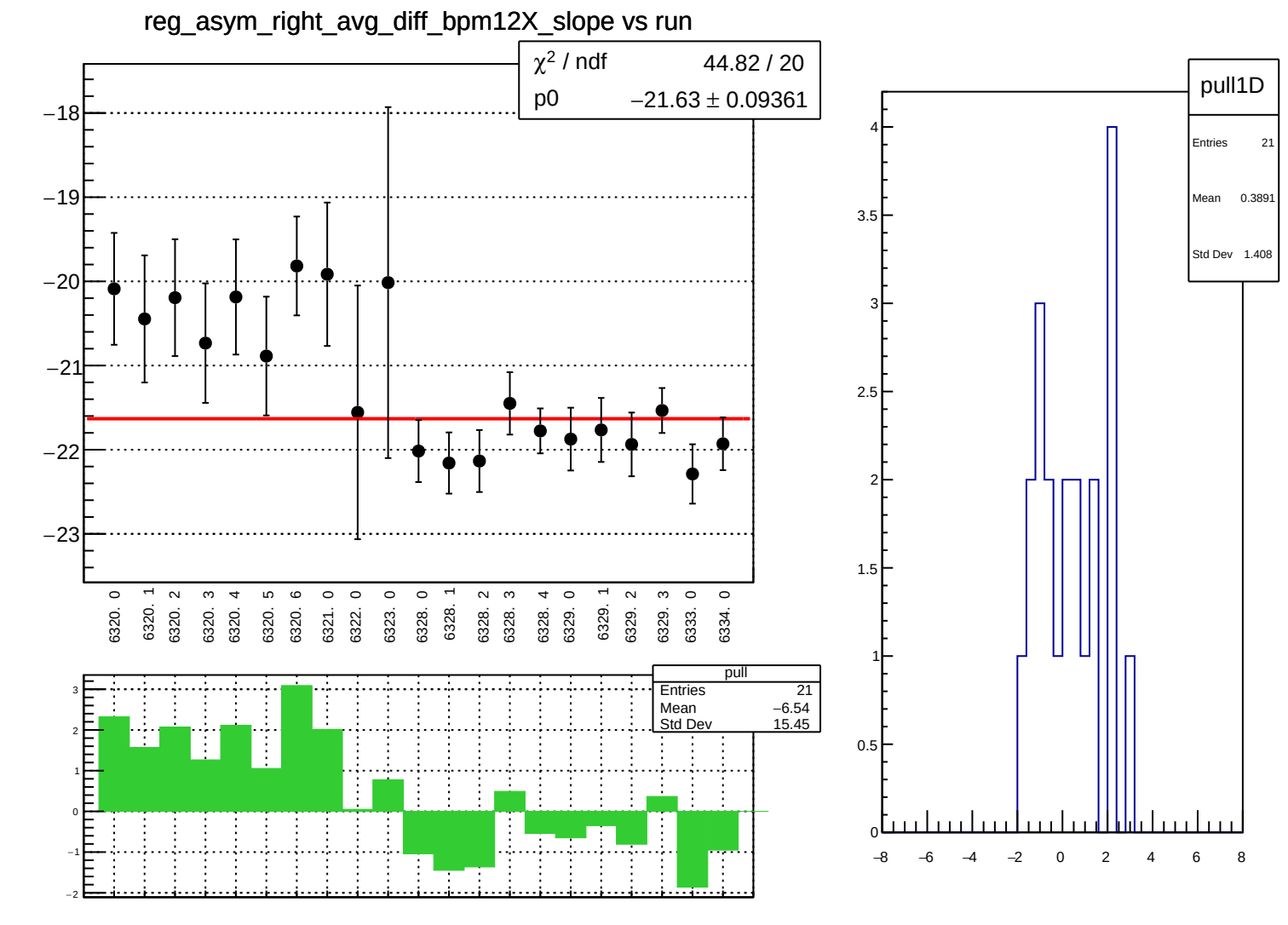

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.29 / 20
p0 3.618 ± 1.537
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −209.9
Std Dev 218.9
1.5
1
0.5
0
−0.5
−1
−1.5

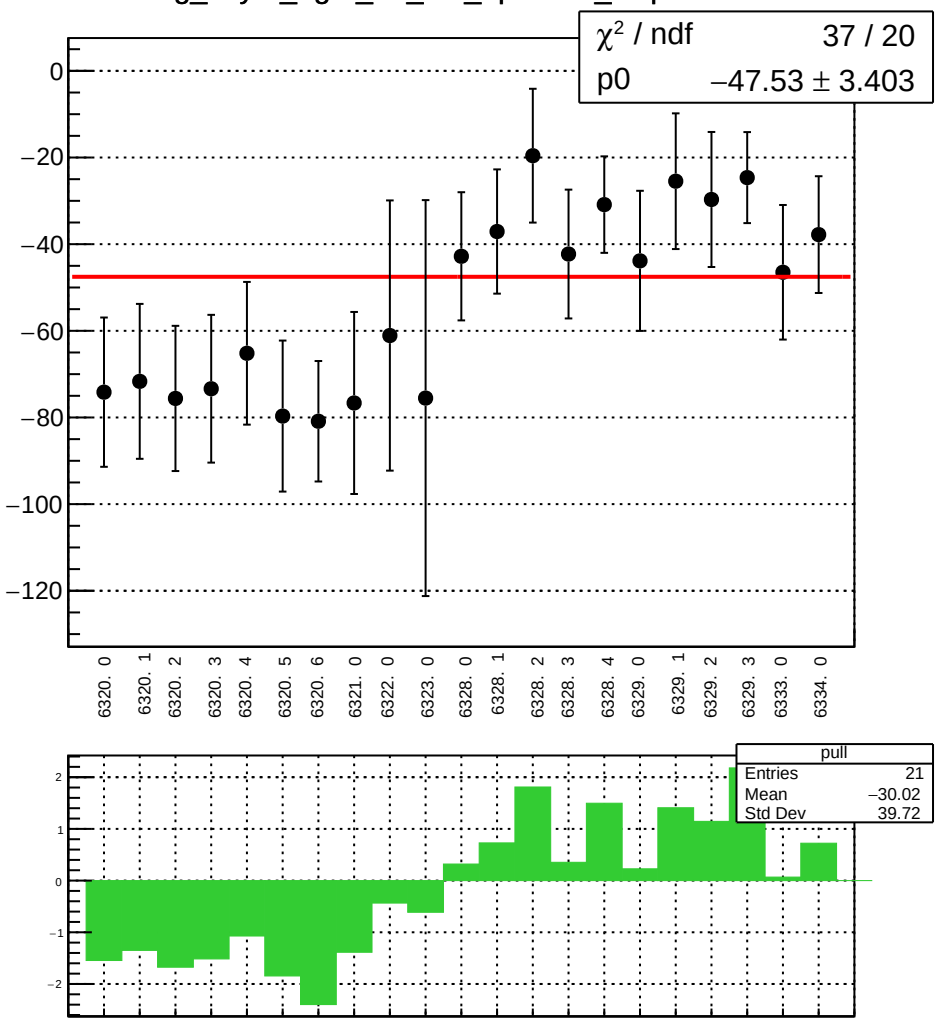

pull1D
Entries 21
Mean 0.02228
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

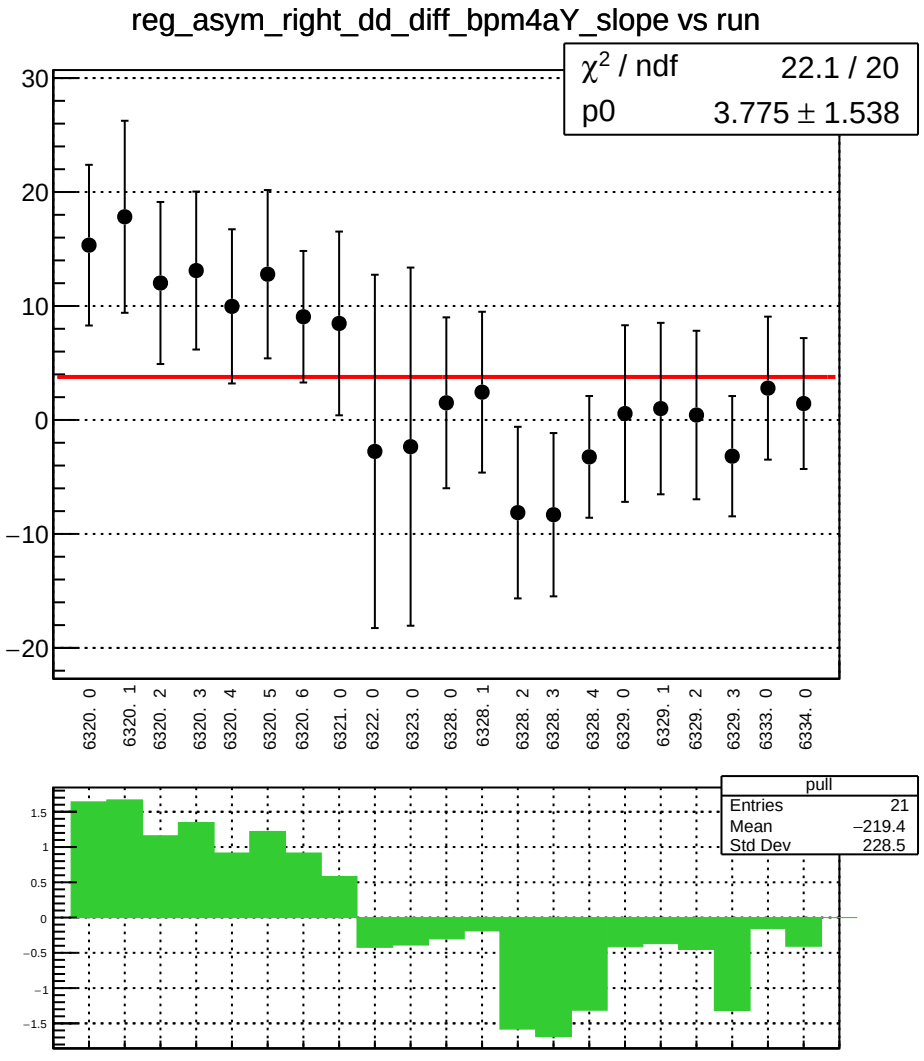

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.98 / 20
p0 82.83 ± 3.694
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.56
Std Dev 41.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.1572
Std Dev 1.353
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

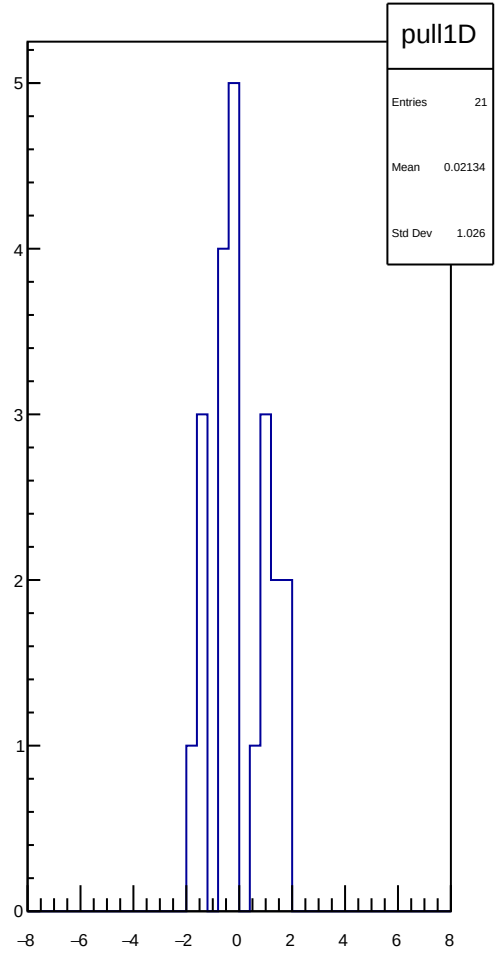

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.46 / 20
p0 3.456 ± 1.749
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.11
Std Dev 47.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

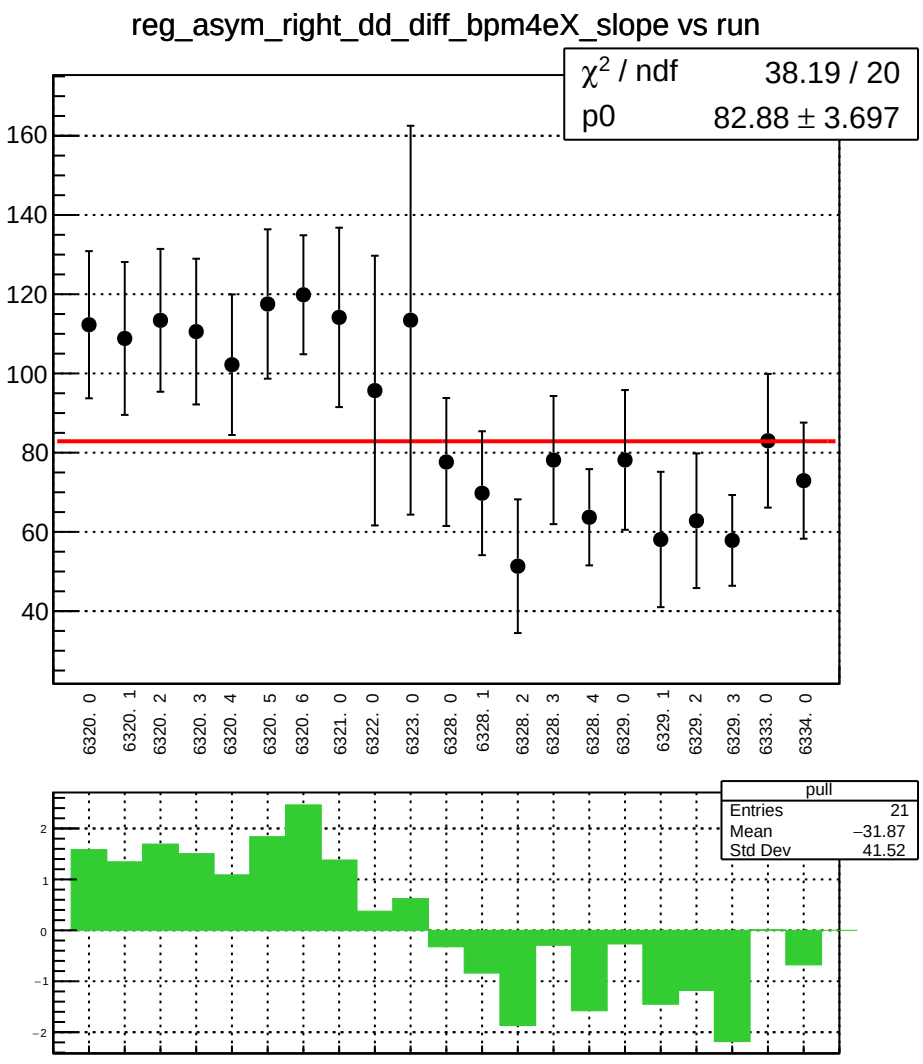

pull1D
Entries 21
Mean −0.1359
Std Dev 1.398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

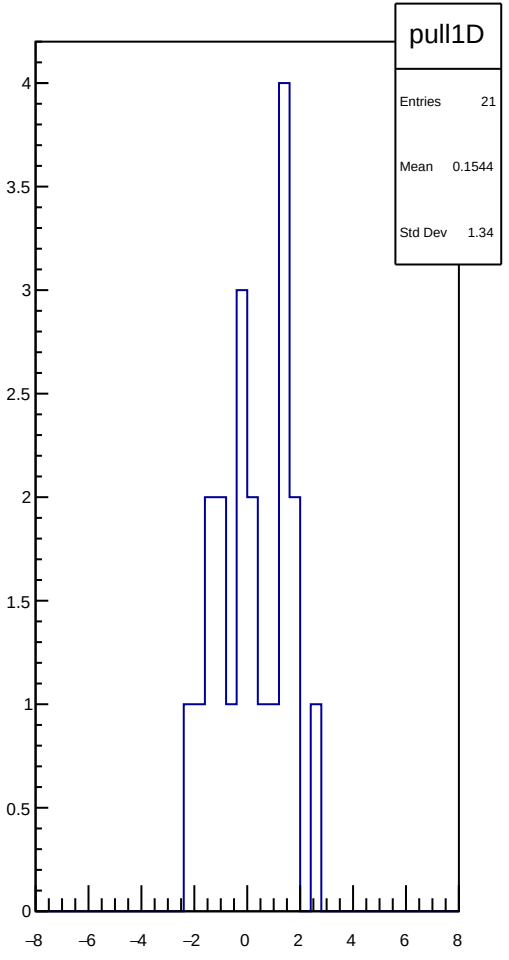

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 44.82 / 20
p0 −21.63 ± 0.09361
−18
−19
−20
−21
−22
−23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.54
Std Dev 15.45
pull1D
Entries 21
Mean 0.3891
Std Dev 1.408

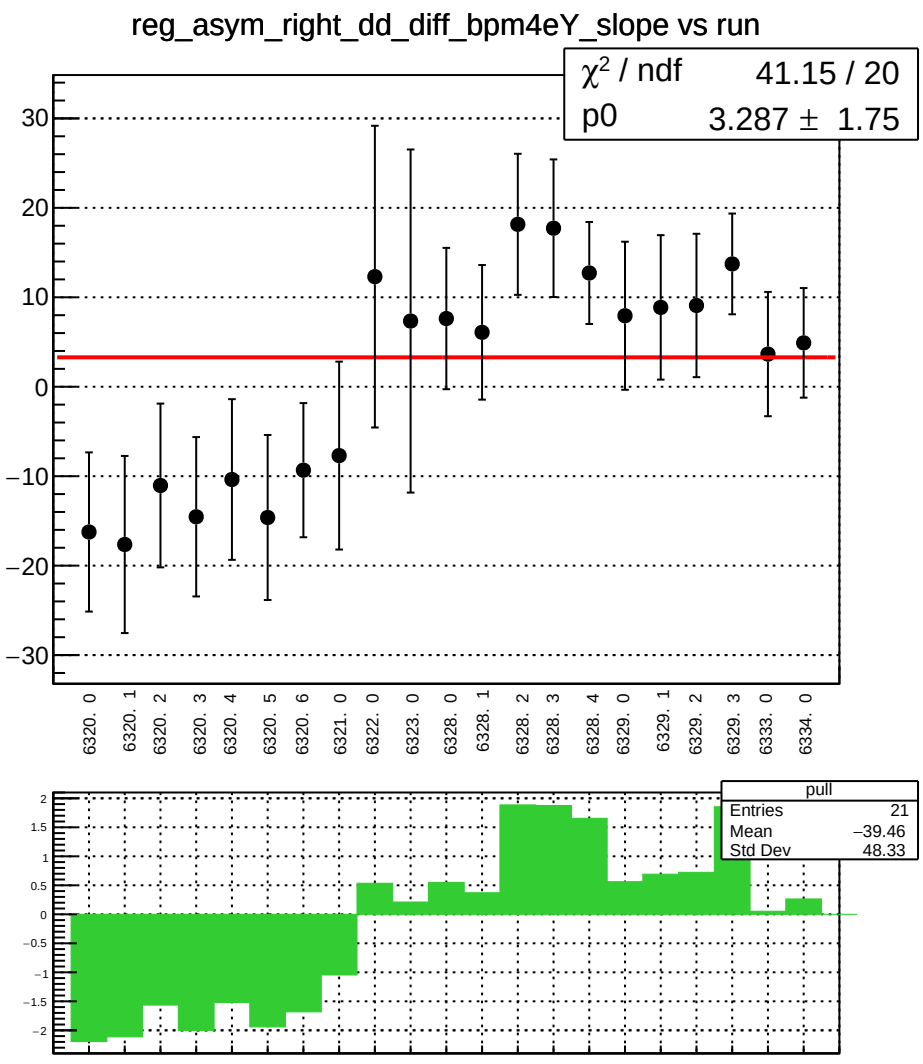

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 37 / 20
p0 −47.53 ± 3.403
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −30.02
Std Dev 39.72
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.1607
Std Dev 1.318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

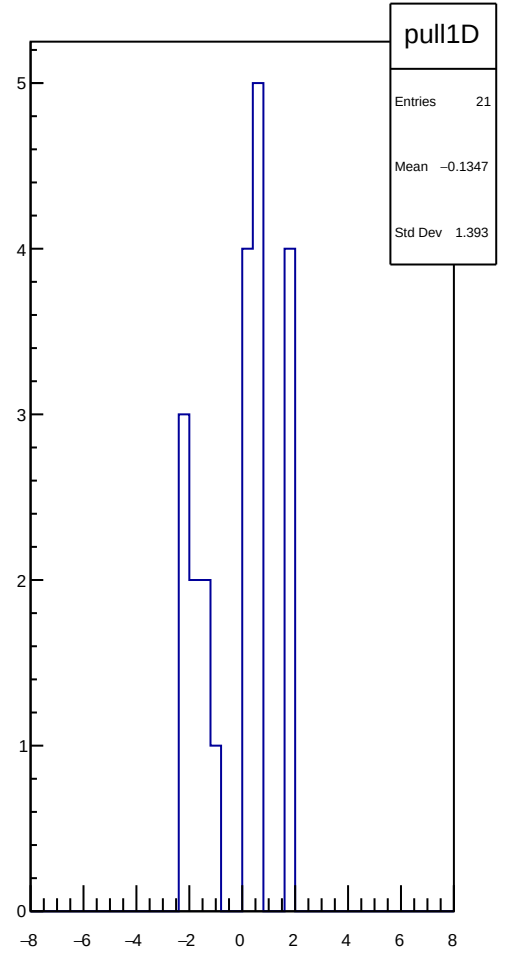

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.1 / 20
p0 3.775 ± 1.538
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −219.4
Std Dev 228.5
1.5
1
0.5
0
−0.5
−1
−1.5

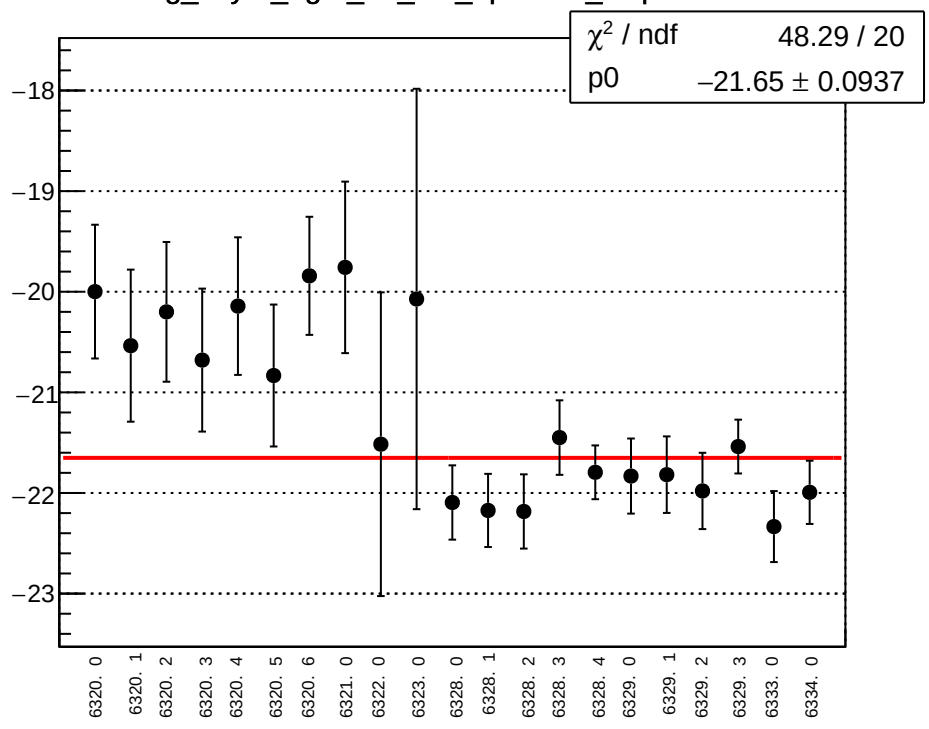

pull1D
Entries 21
Mean 0.02134
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

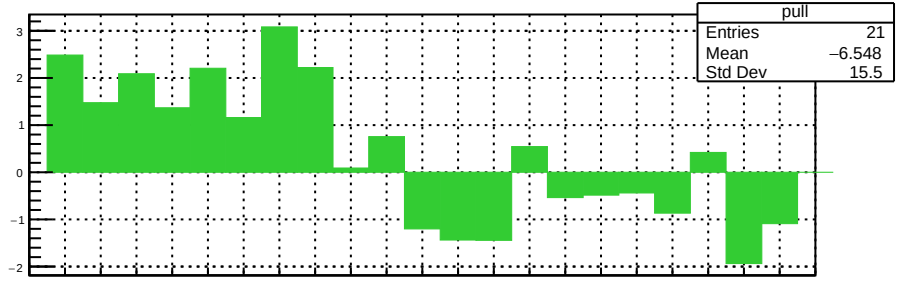

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.19 / 20
p0 82.88 ± 3.697
160
140
120
100
80
60
40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −31.87
Std Dev 41.52
2
1
0
−1
−2

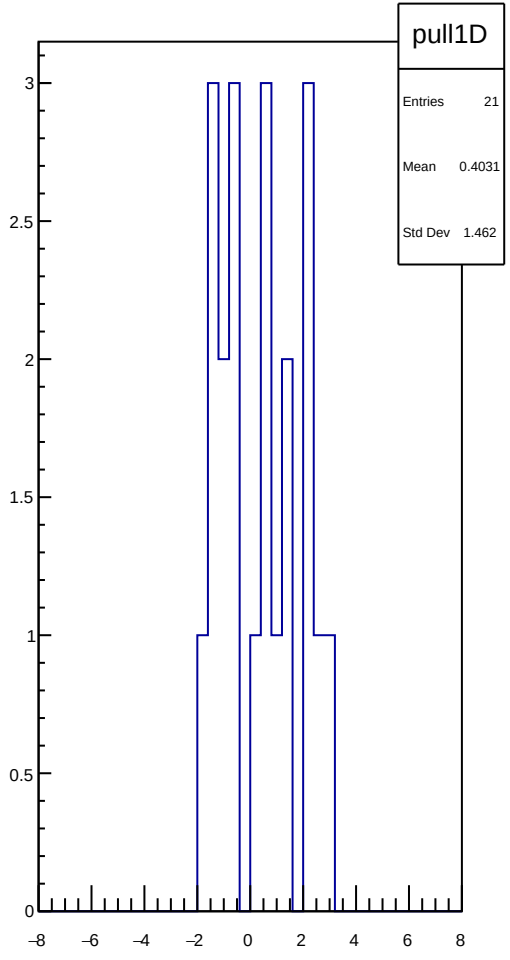

pull1D
Entries 21
Mean 0.1544
Std Dev 1.34
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

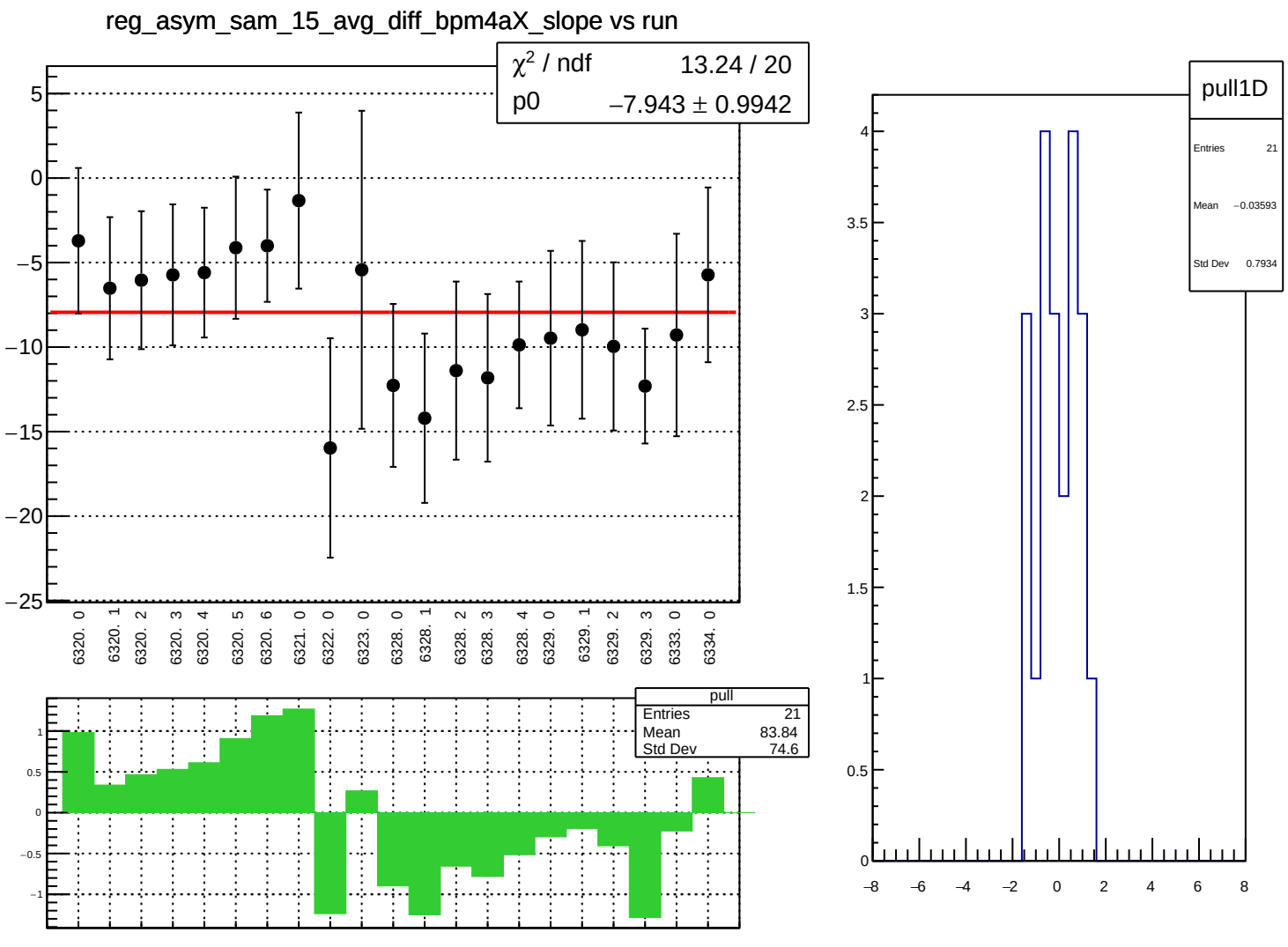

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.15 / 20
p0 3.287 ± 1.75
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −39.46
Std Dev 48.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

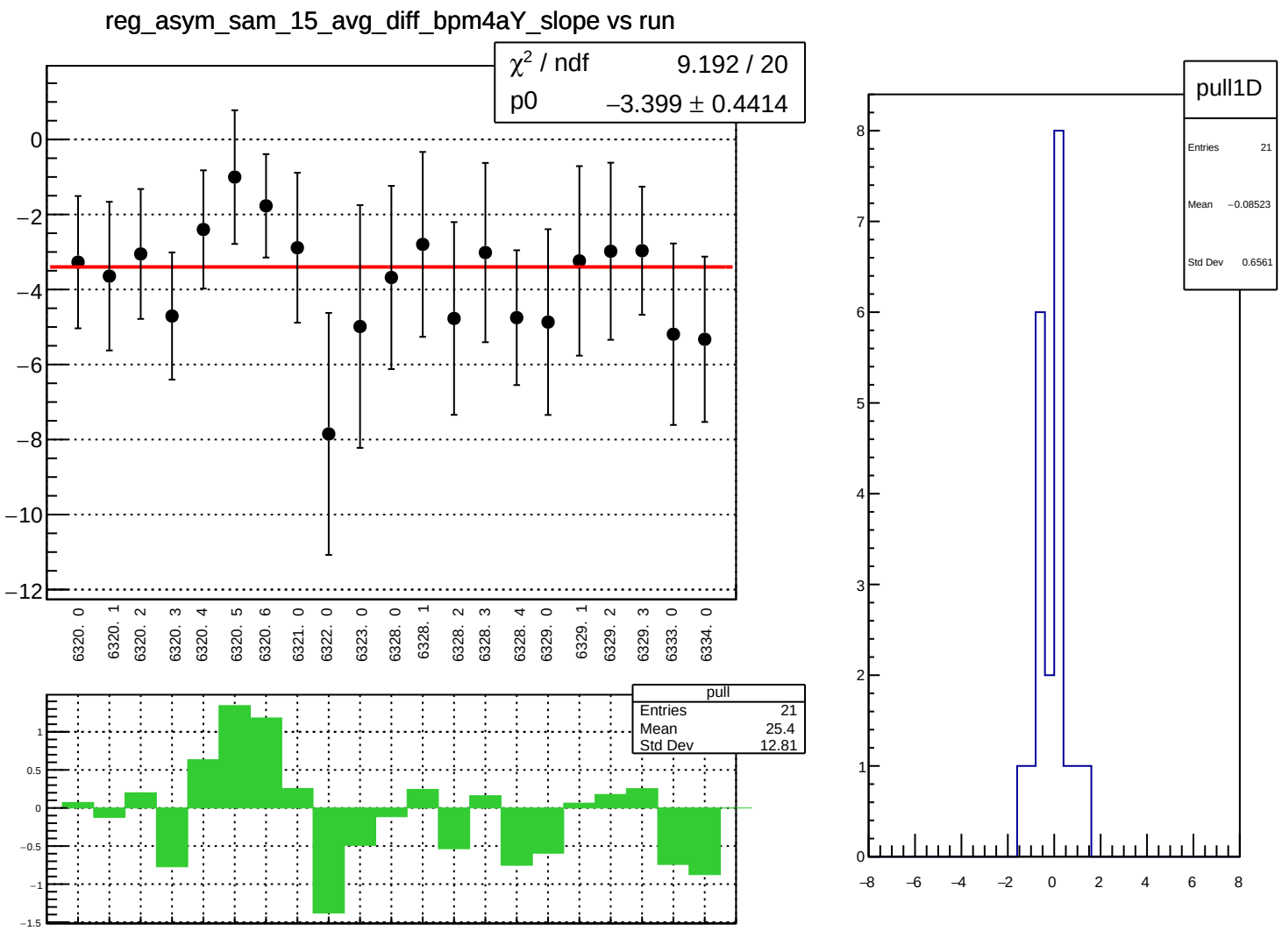

pull1D
Entries 21
Mean −0.1347
Std Dev 1.393
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

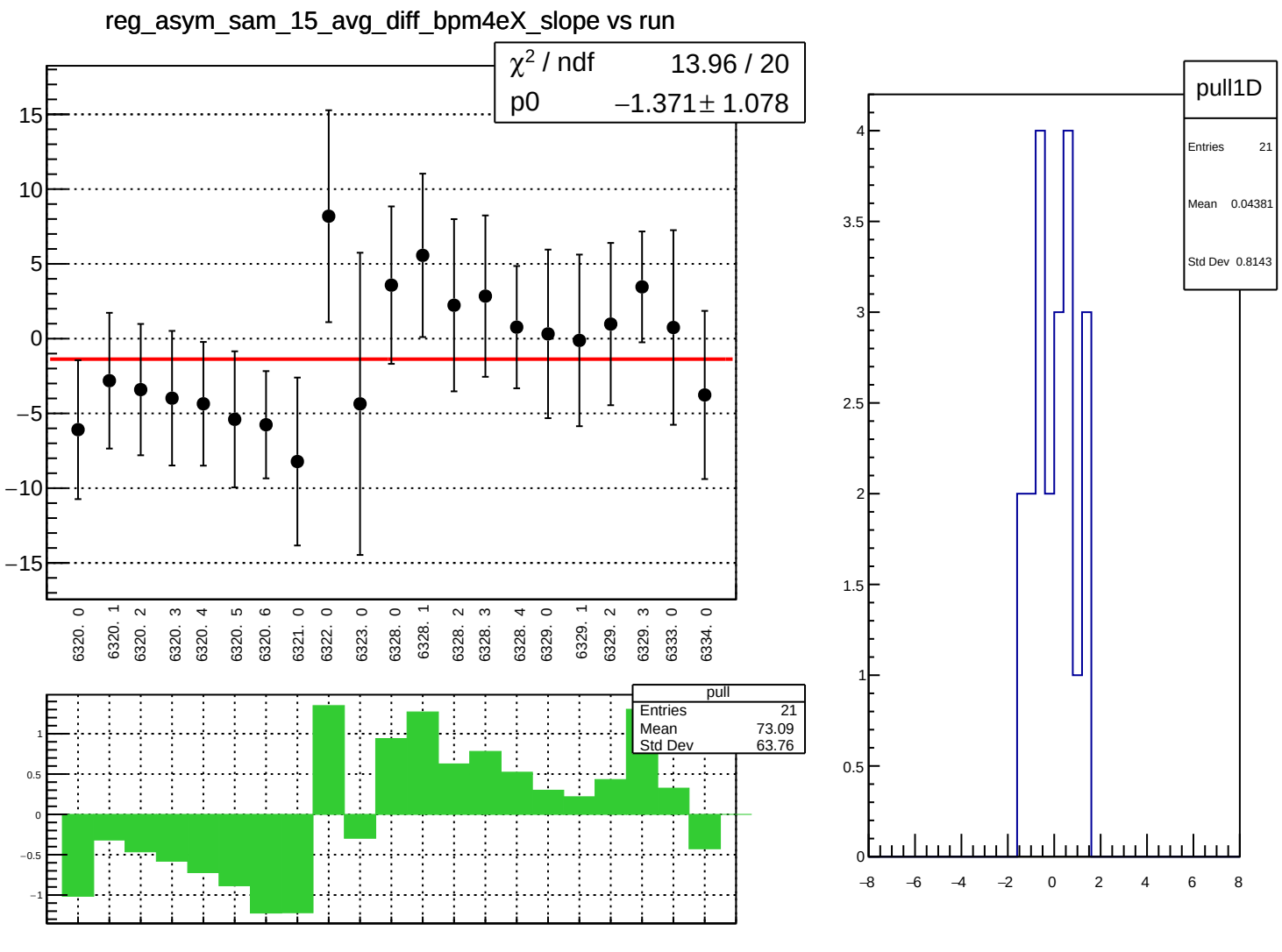

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 48.29 / 20
p0 −21.65 ± 0.0937
−18
−19
−20
−21
−22
−23
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

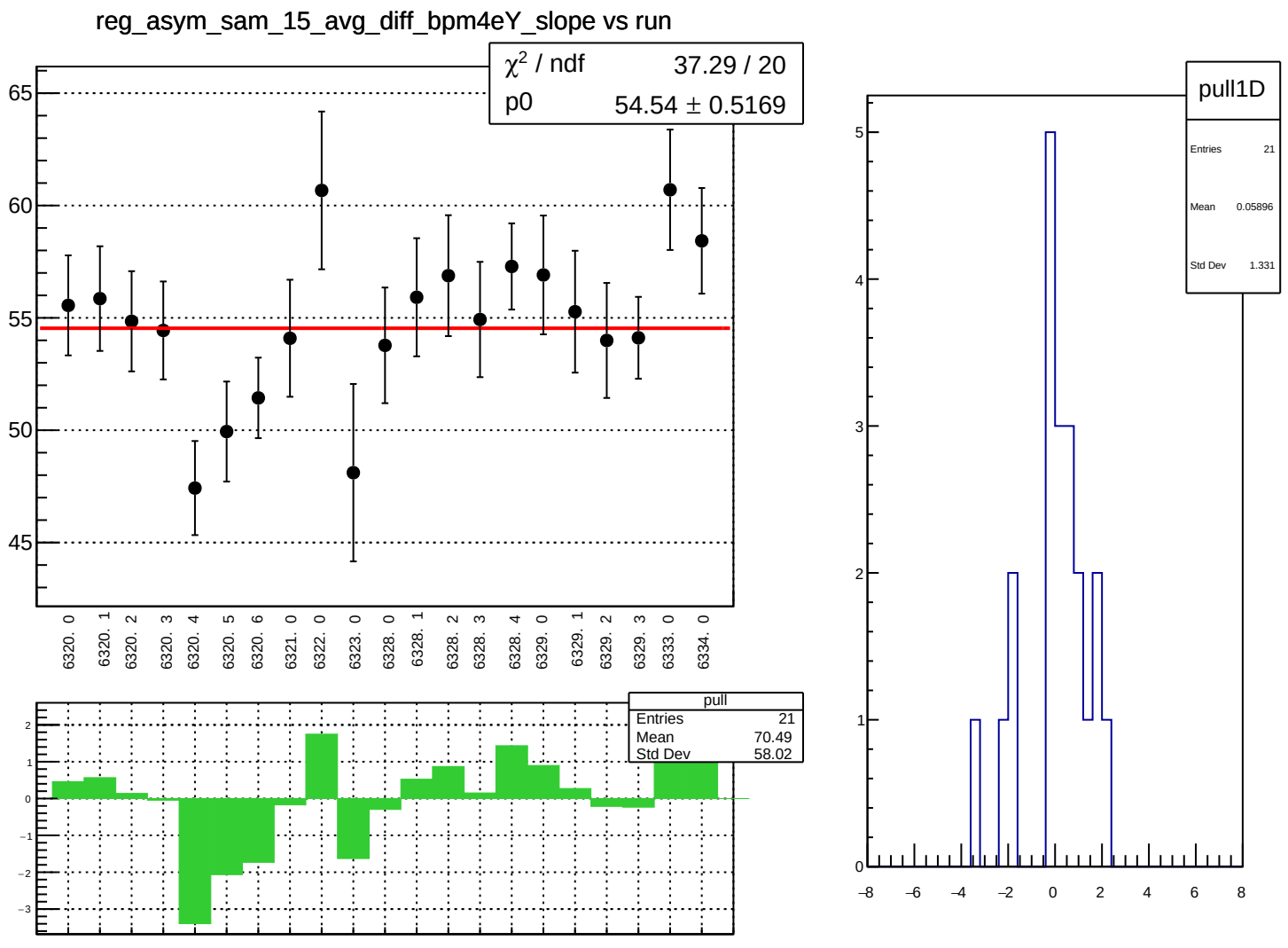

pull
Entries 21
Mean −6.548
Std Dev 15.5
3
2
1
0
−1
−2

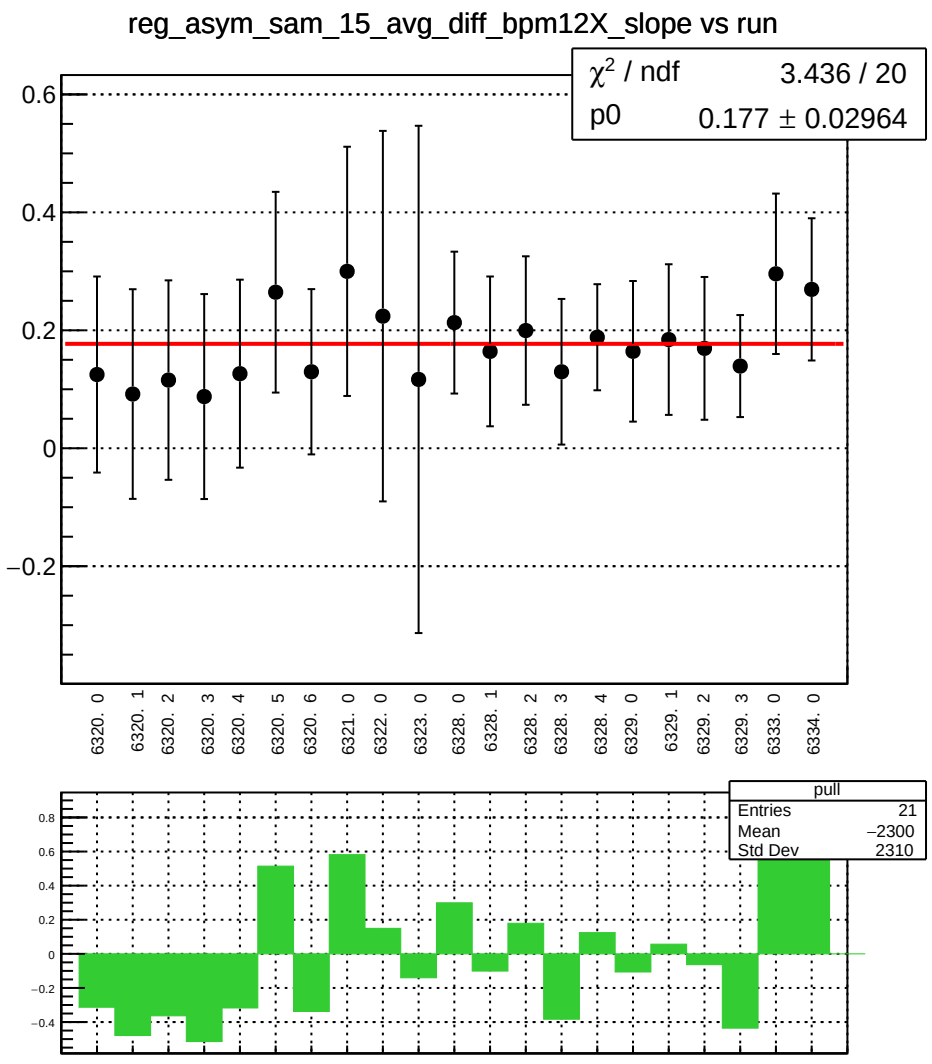

pull1D
Entries 21
Mean 0.4031
Std Dev 1.462
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

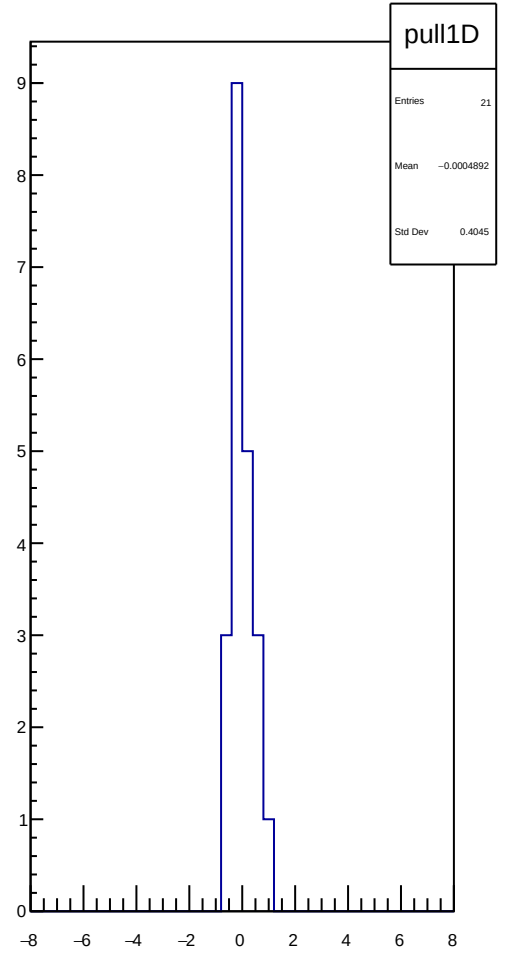

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.24 / 20
p0 −7.943 ± 0.9942
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 83.84
Std Dev 74.6
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.03593
Std Dev 0.7934
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

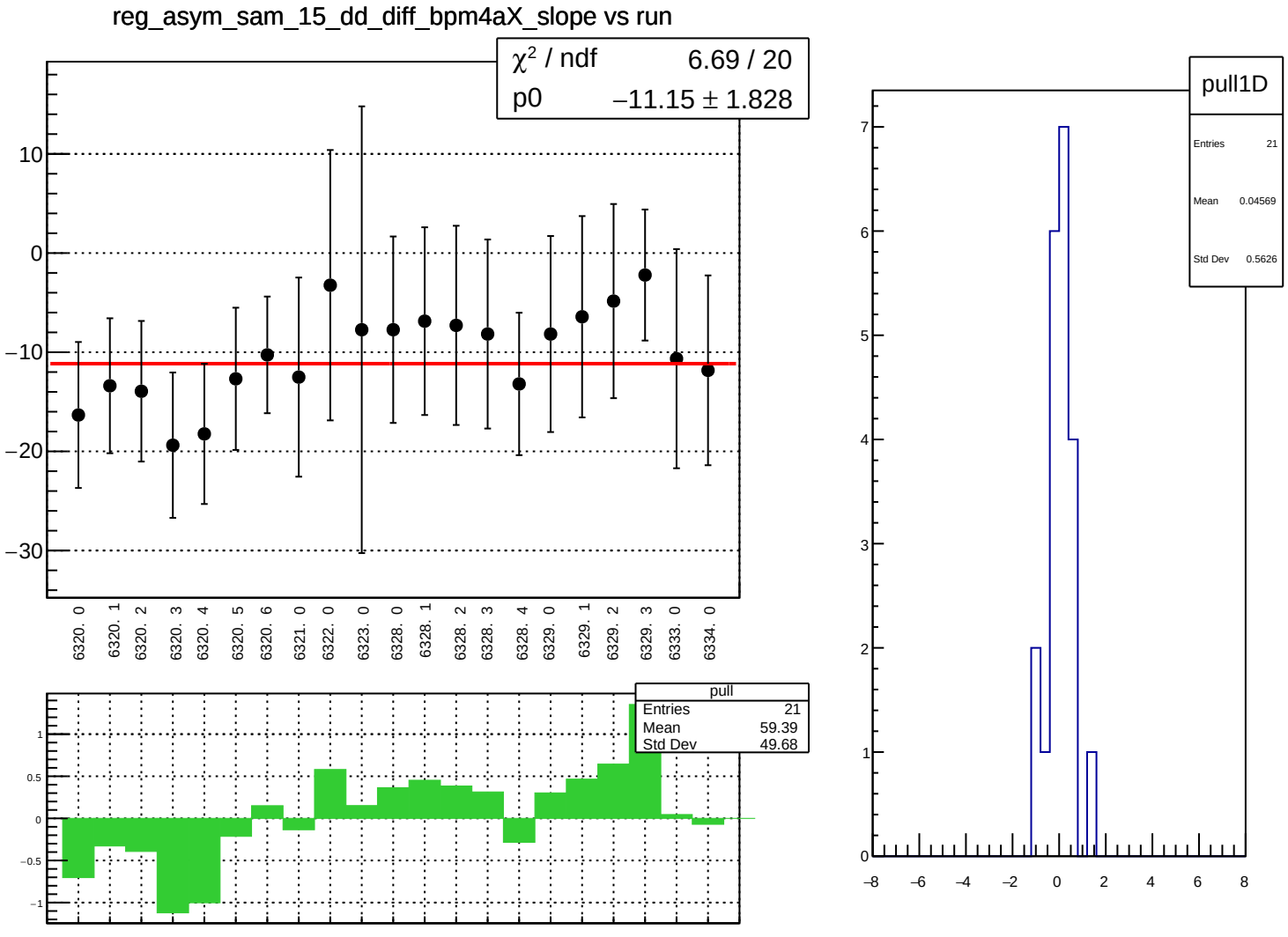

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.192 / 20
p0 −3.399 ± 0.4414
0
−2
−4
−6
−8
−10
−12
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 25.4
Std Dev 12.81
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.08523
Std Dev 0.6561
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

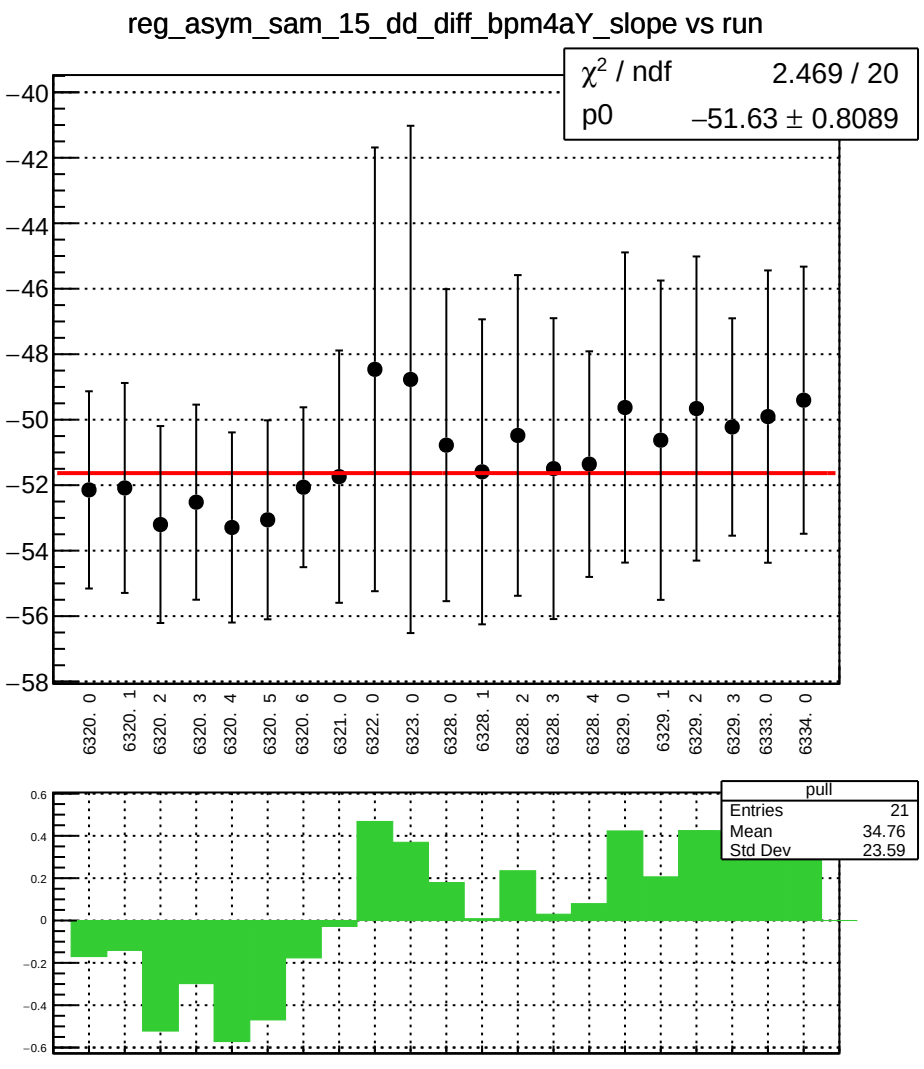

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.96 / 20
p0 −1.371± 1.078
15
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 73.09
Std Dev 63.76
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.04381
Std Dev 0.8143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

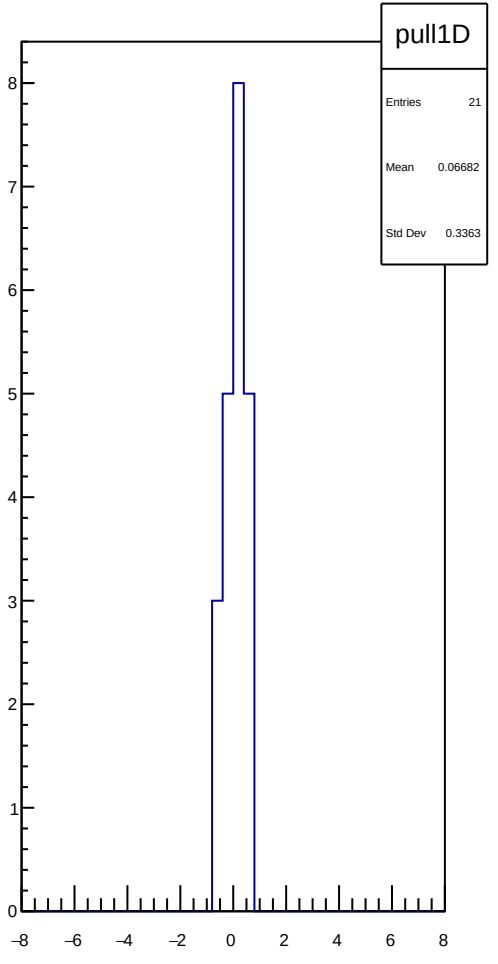

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.29 / 20
p0 54.54 ± 0.5169
65
60
55
50
45
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 70.49
Std Dev 58.02
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.05896
Std Dev 1.331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

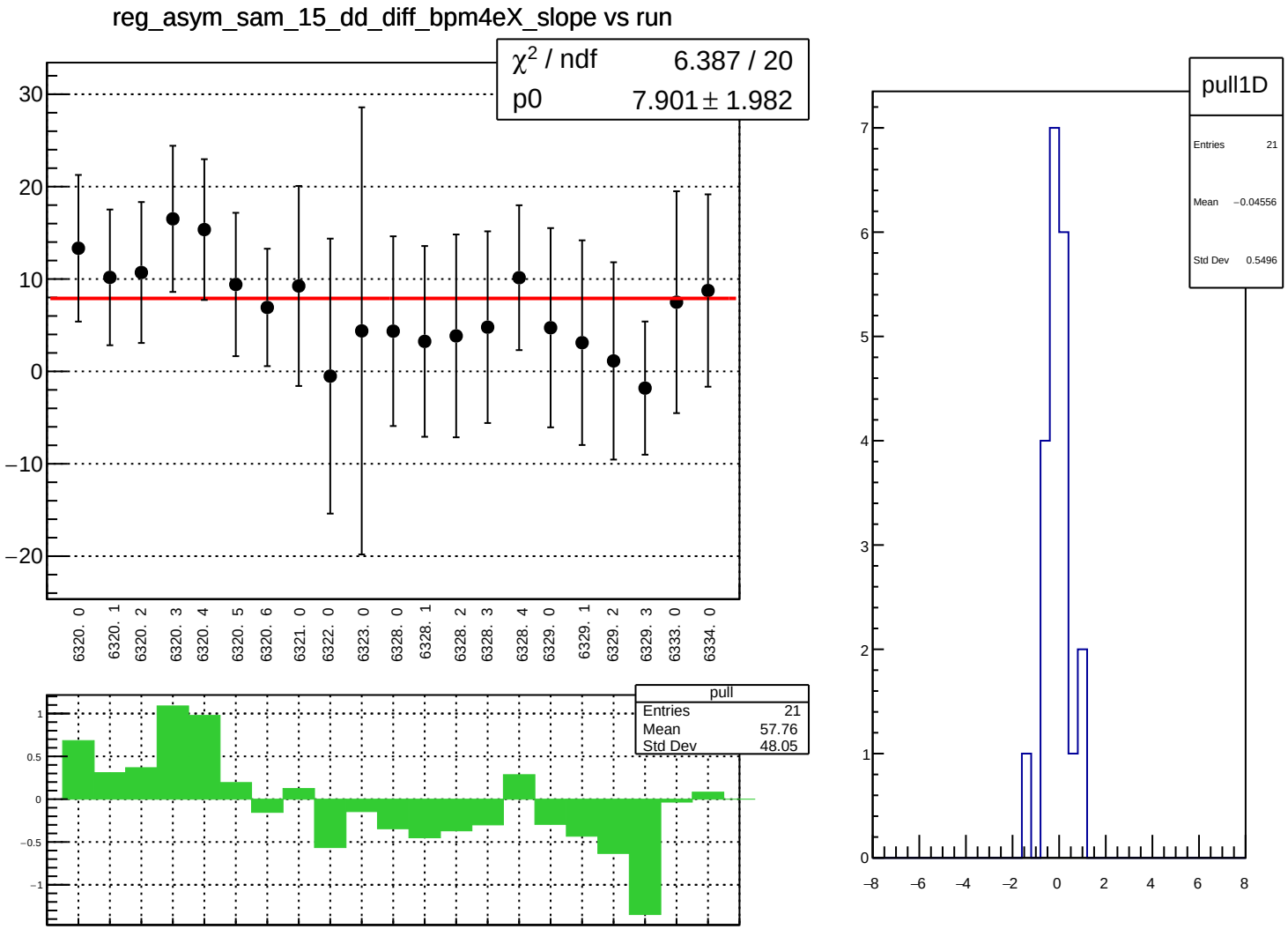

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 3.436 / 20
p0 0.177 ± 0.02964
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2300
Std Dev 2310
0.8
0.6
0.4
0.2
0
−0.2
−0.4

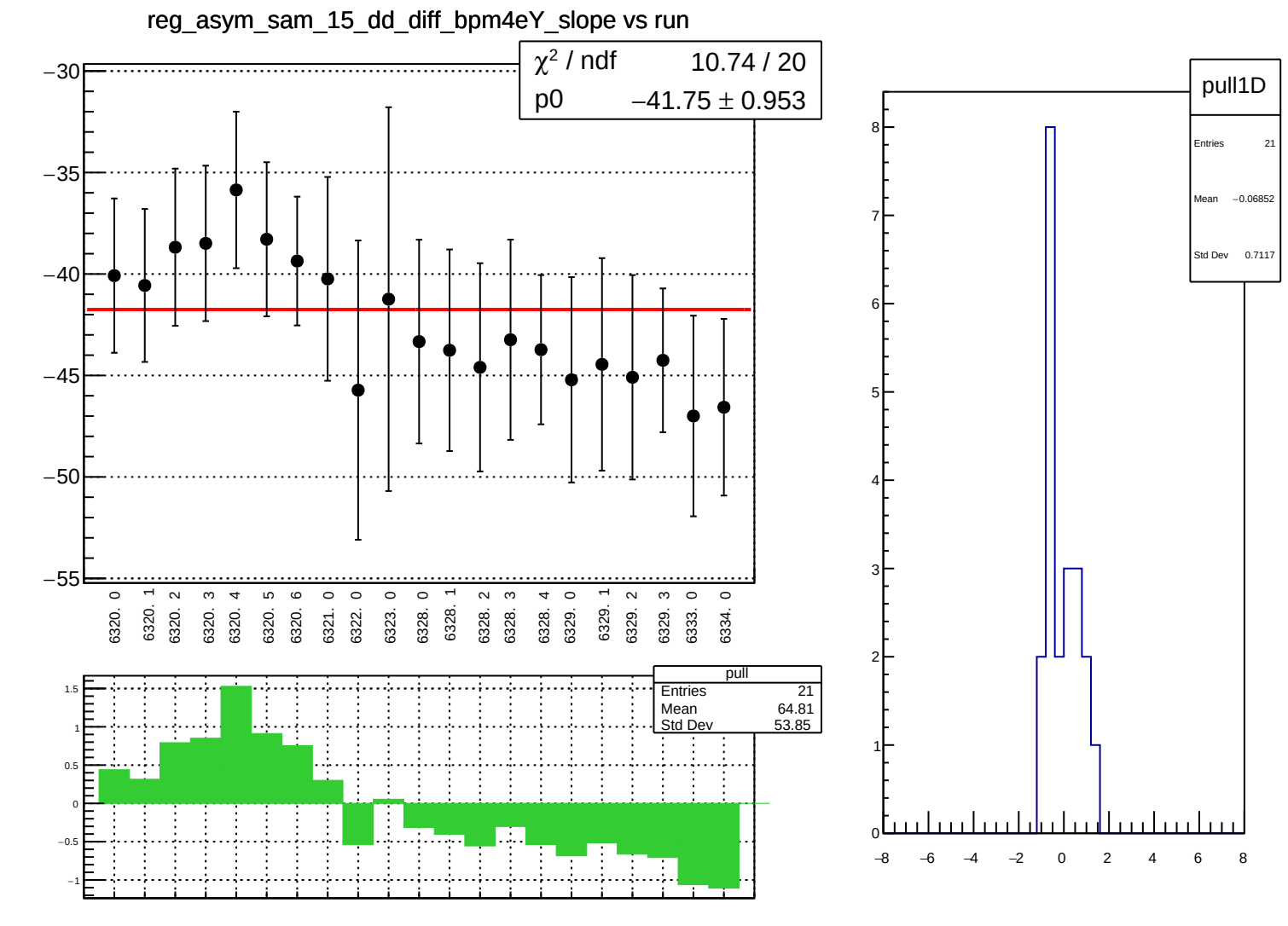

pull1D
Entries 21
Mean −0.0004892
Std Dev 0.4045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

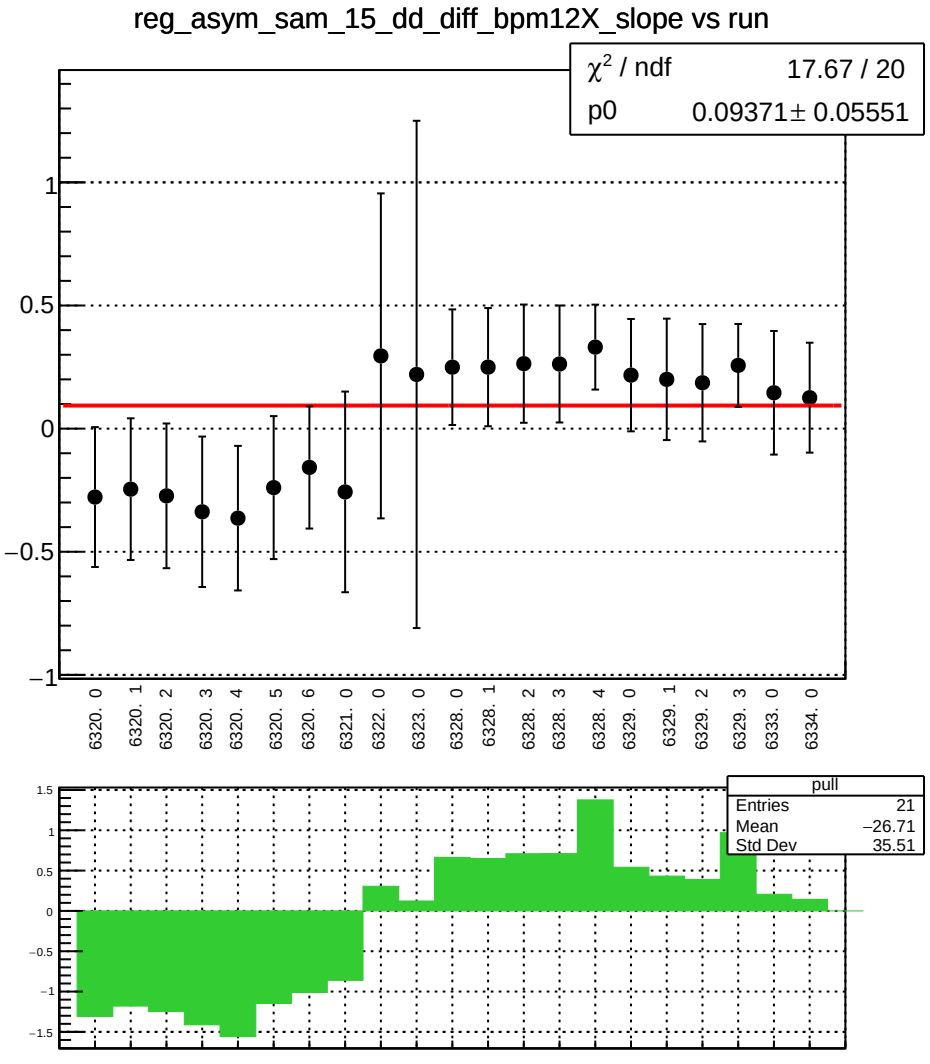

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.69 / 20
p0 −11.15 ± 1.828
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.39
Std Dev 49.68
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.04569
Std Dev 0.5626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

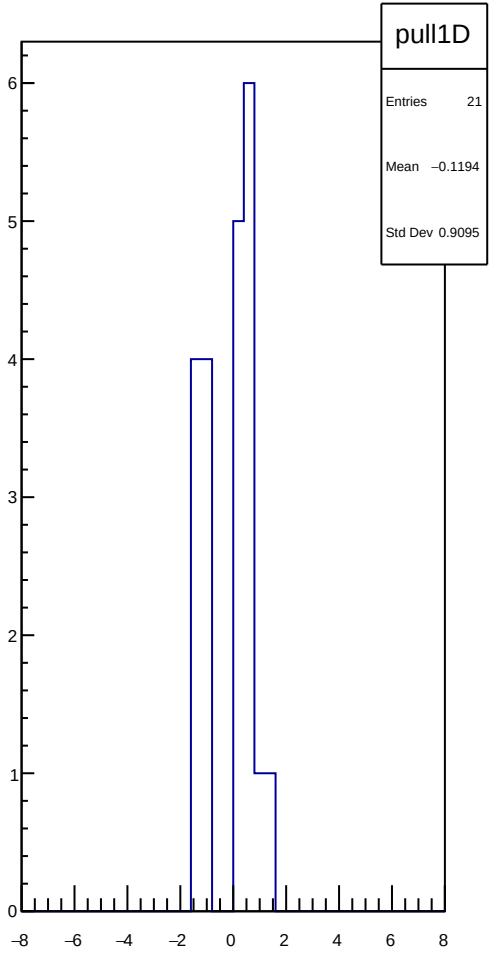

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.469 / 20
p0 −51.63 ± 0.8089
−40
−42
−44
−46
−48
−50
−52
−54
−56
−58
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 34.76
Std Dev 23.59
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

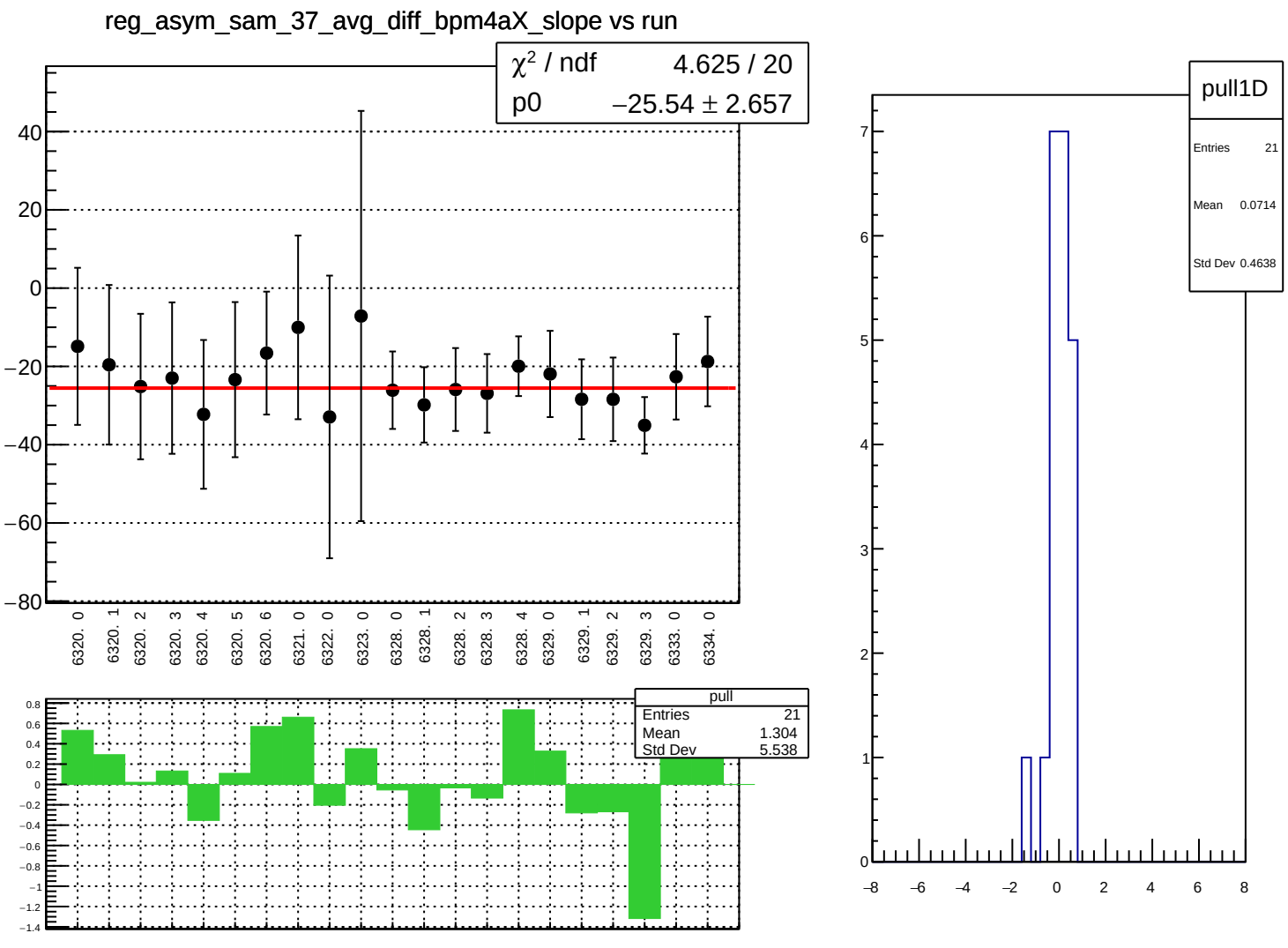

pull1D
Entries 21
Mean 0.06682
Std Dev 0.3363
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

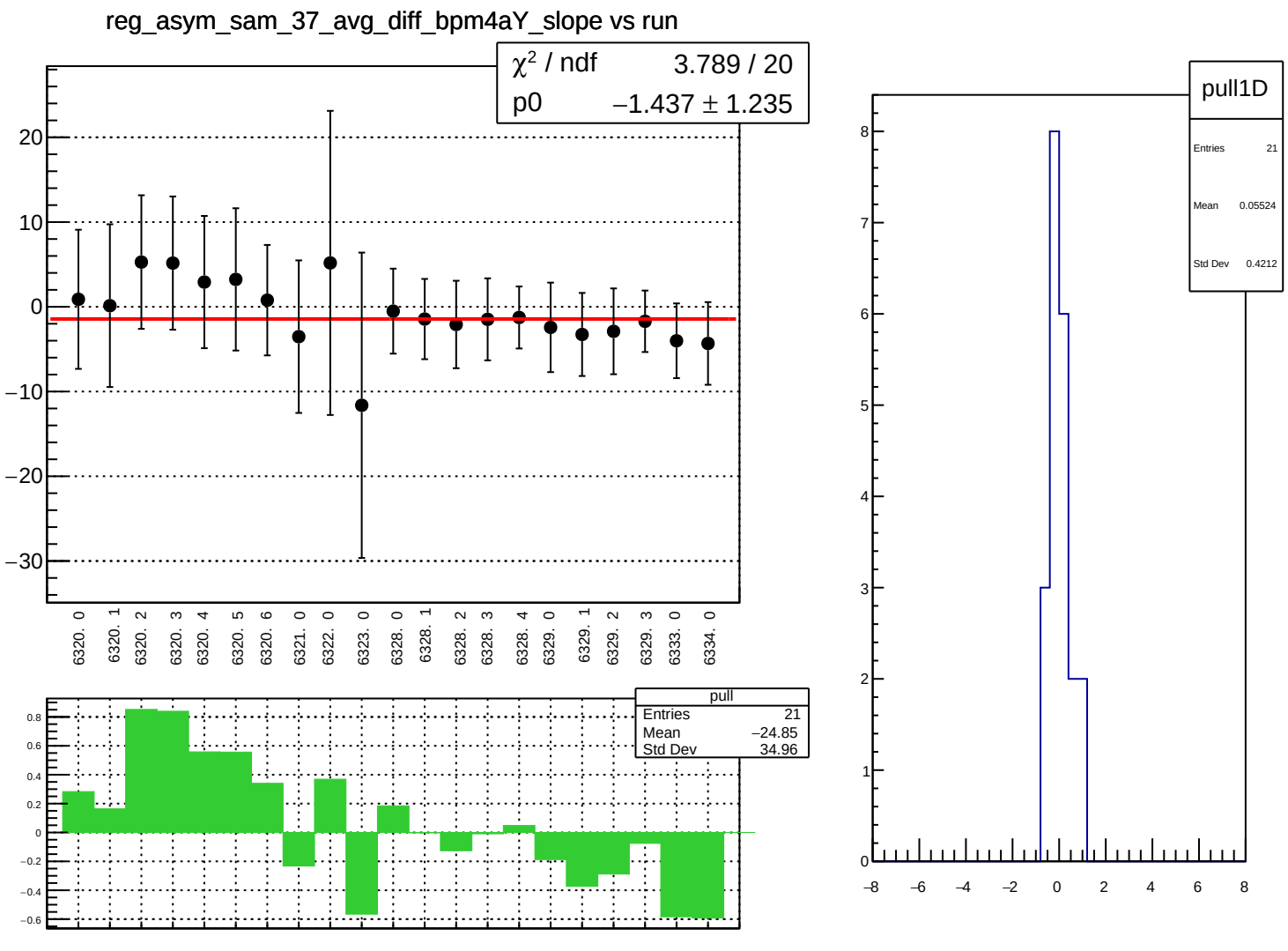

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.387 / 20
p0 7.901 ± 1.982
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.76
Std Dev 48.05
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.04556
Std Dev 0.5496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

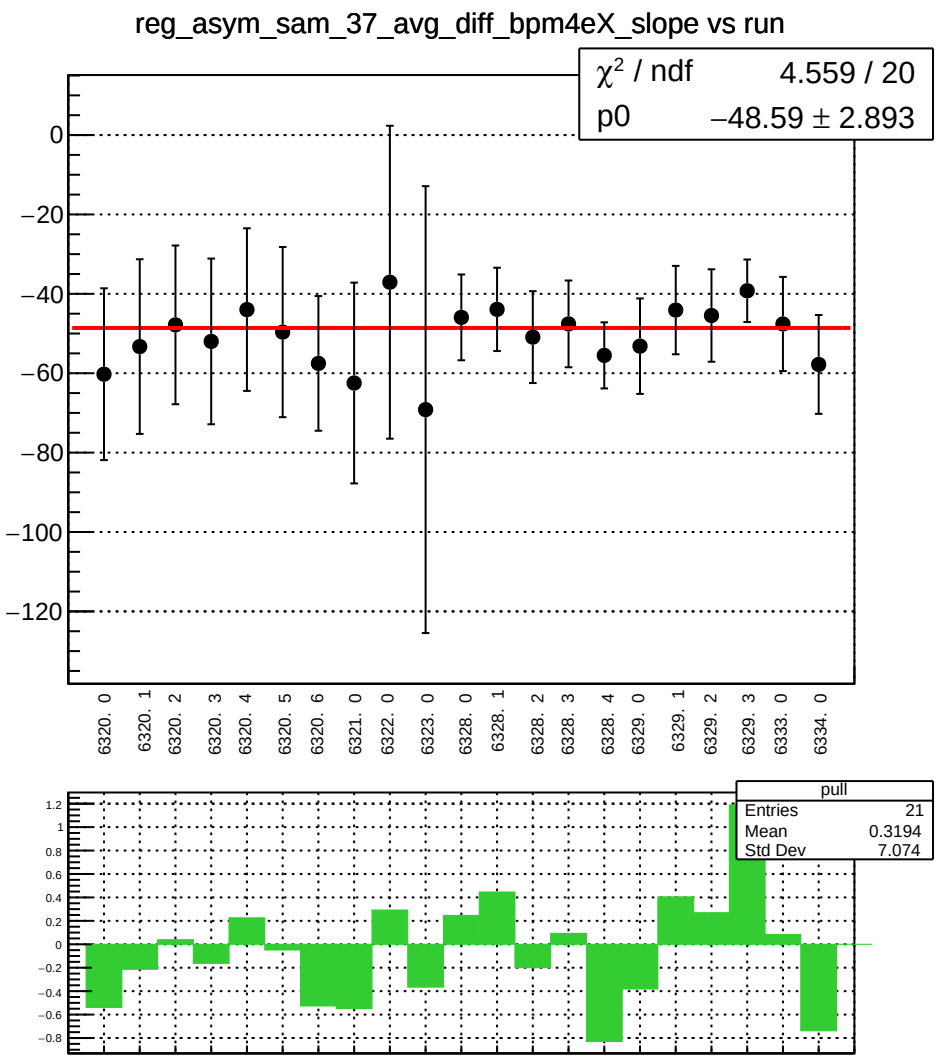

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.74 / 20
p0 −41.75 ± 0.953
−30
−35
−40
−45
−50
−55
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 64.81
Std Dev 53.85
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.06852
Std Dev 0.7117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

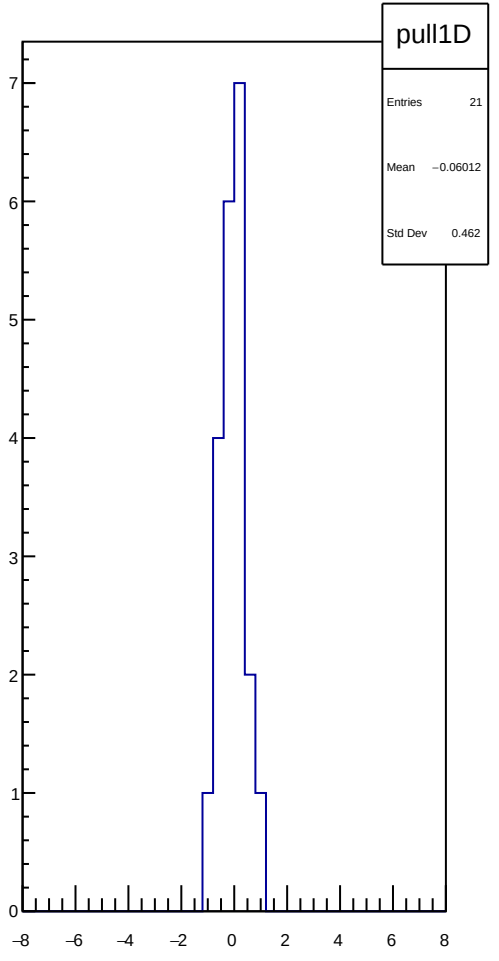

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.67 / 20
p0 0.09371± 0.05551
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −26.71
Std Dev 35.51
1.5
1
0.5
0
−0.5
−1
−1.5

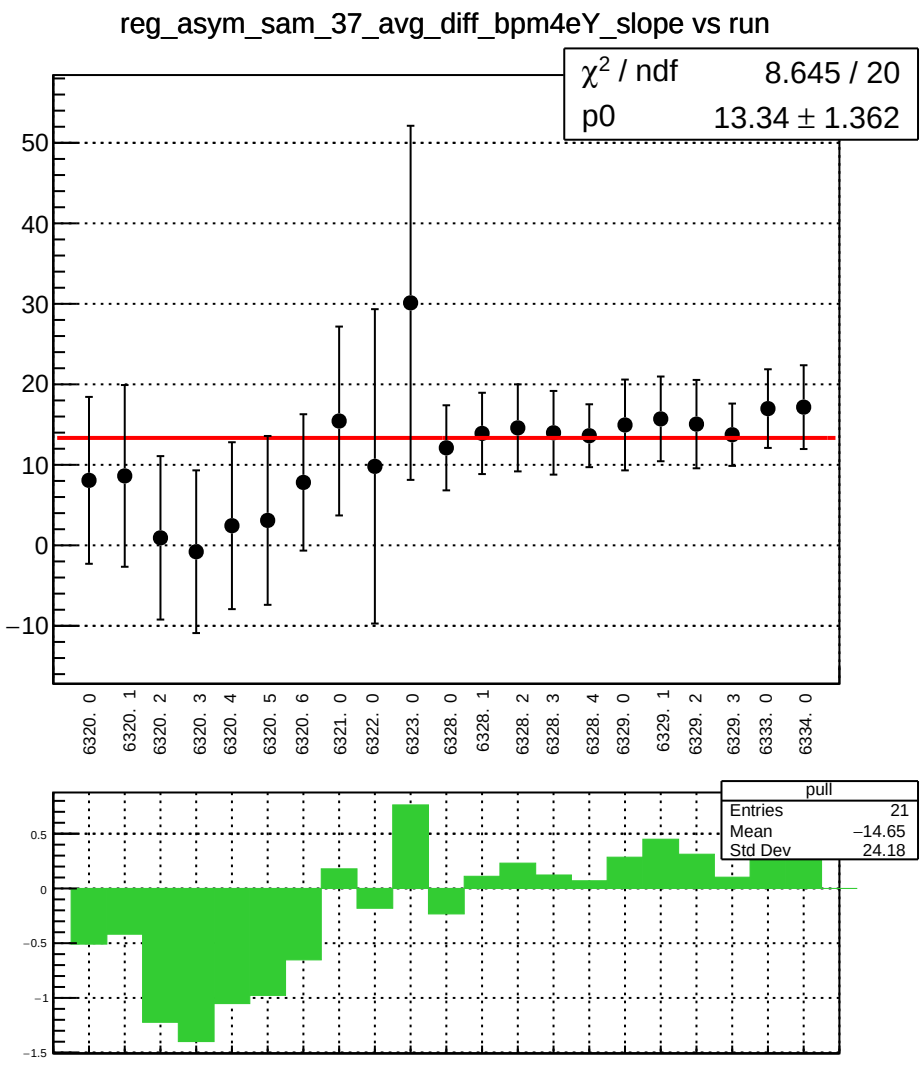

pull1D
Entries 21
Mean −0.1194
Std Dev 0.9095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

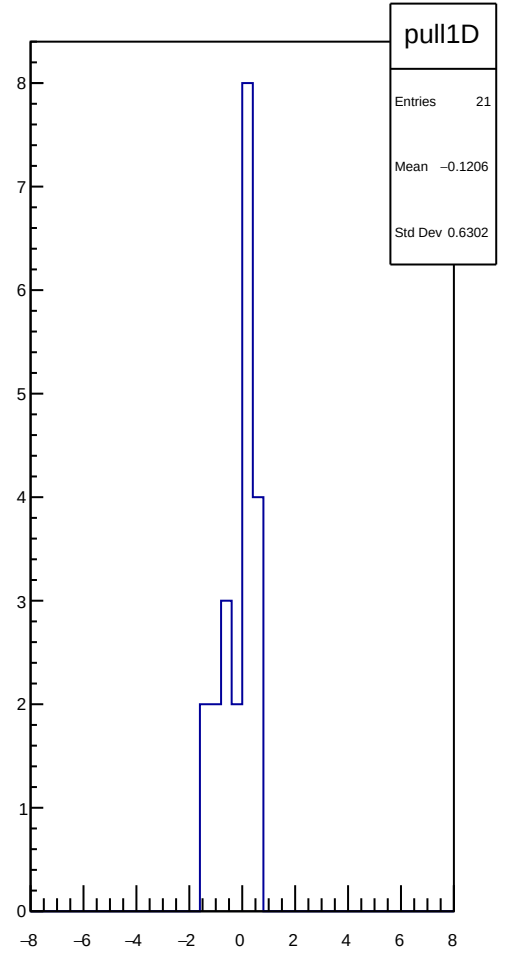

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.625 / 20
p0 −25.54 ± 2.657
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.304
Std Dev 5.538
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 21
Mean 0.0714
Std Dev 0.4638
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

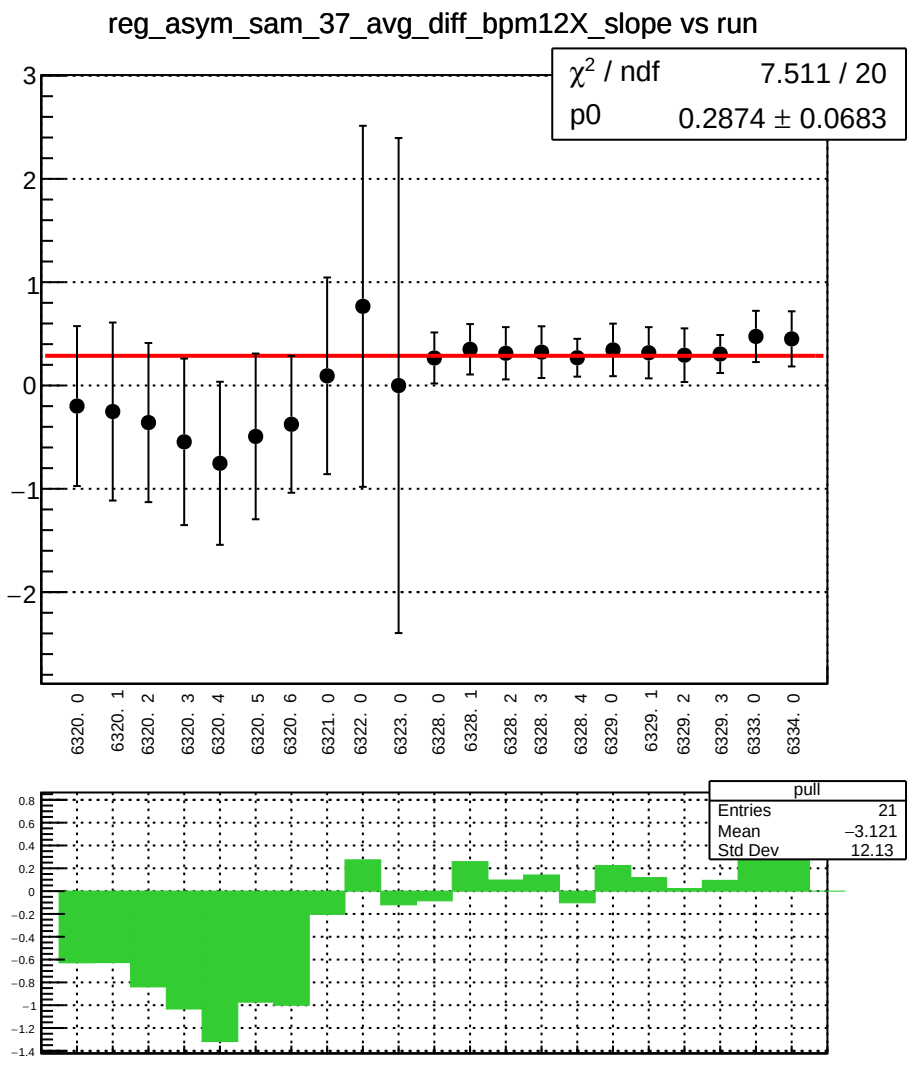

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.789 / 20
p0 −1.437 ± 1.235
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −24.85
Std Dev 34.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.05524
Std Dev 0.4212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

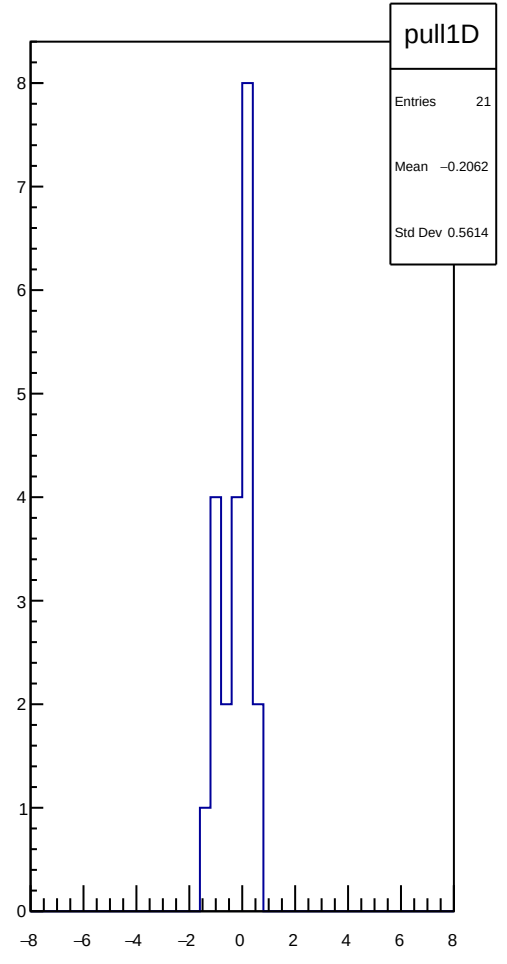

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.559 / 20
p0 −48.59 ± 2.893
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.3194
Std Dev 7.074
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

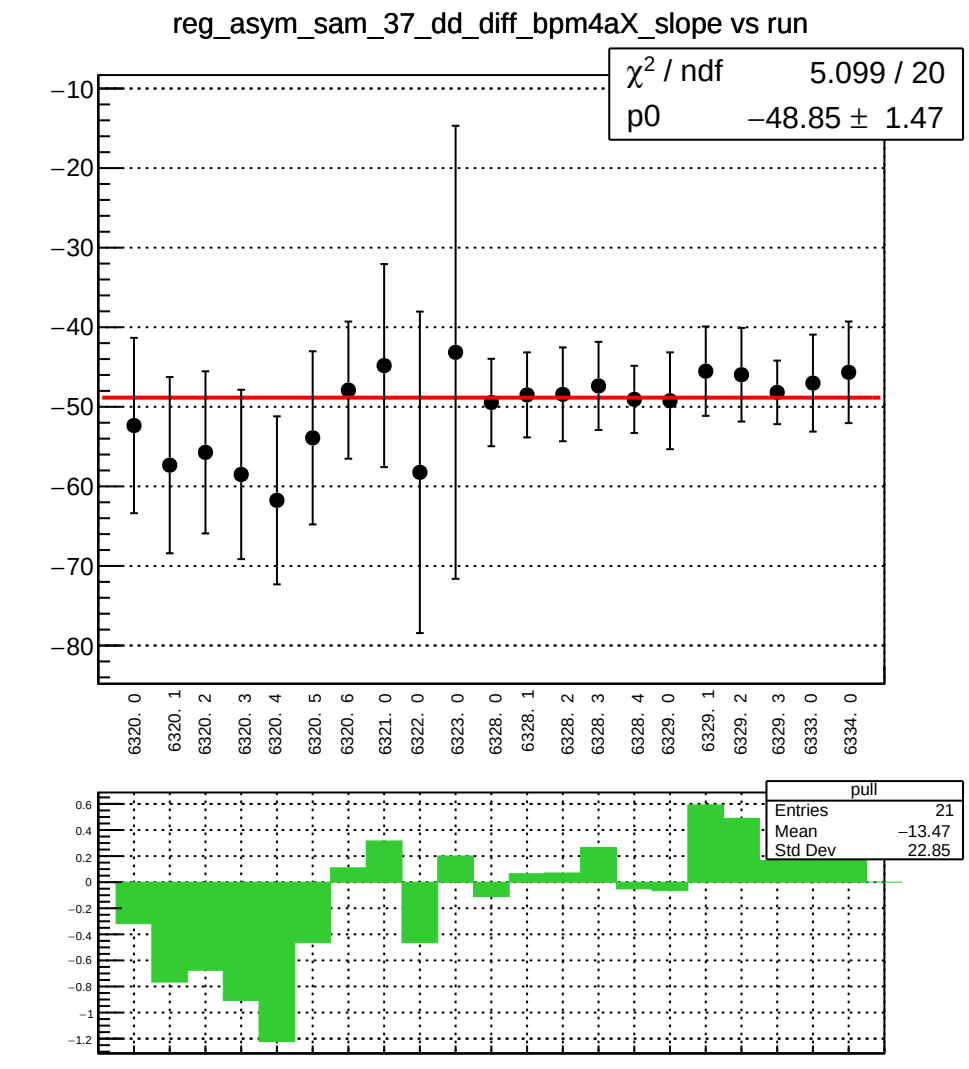

pull1D
Entries 21
Mean −0.06012
Std Dev 0.462
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

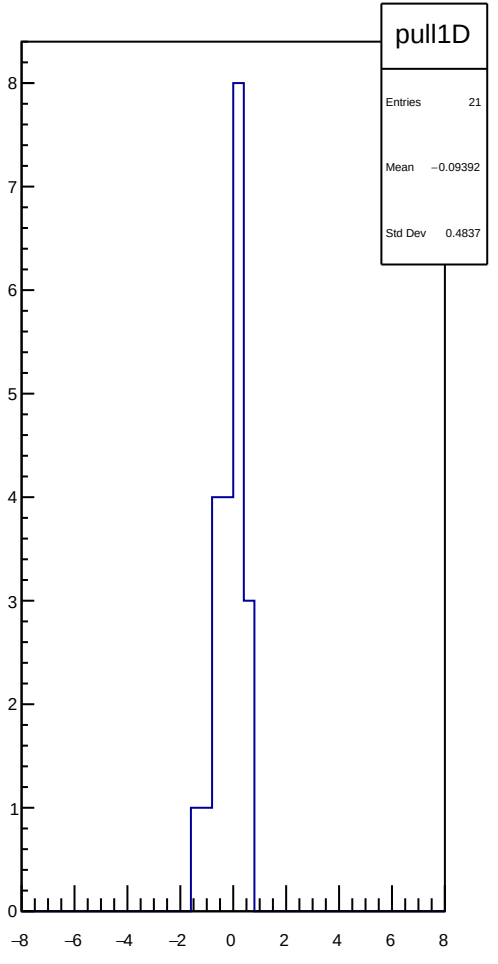

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.645 / 20
p0 13.34 ± 1.362
50
40
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.65
Std Dev 24.18
0.5
0
−0.5
−1
−1.5

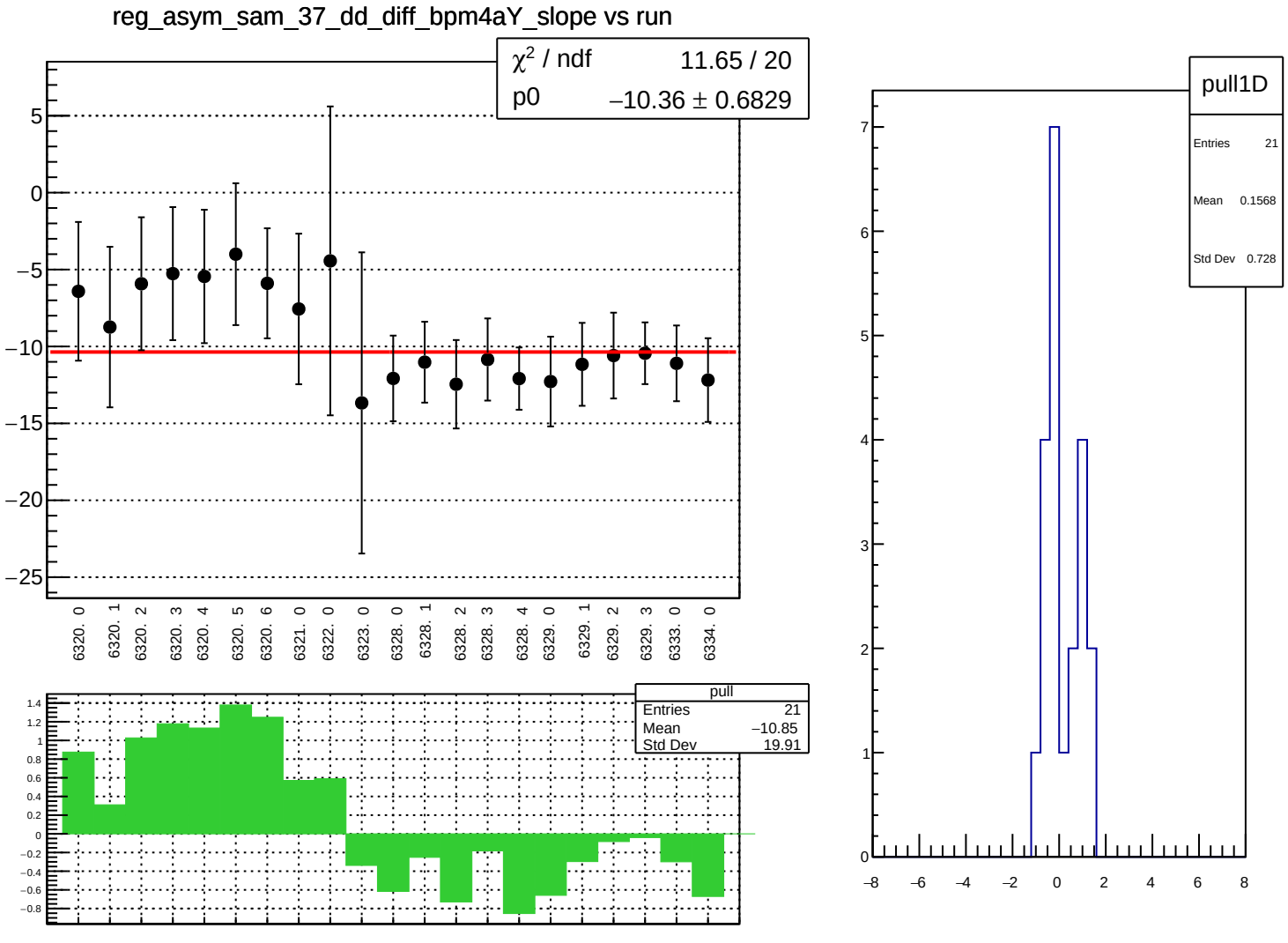

pull1D
Entries 21
Mean −0.1206
Std Dev 0.6302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

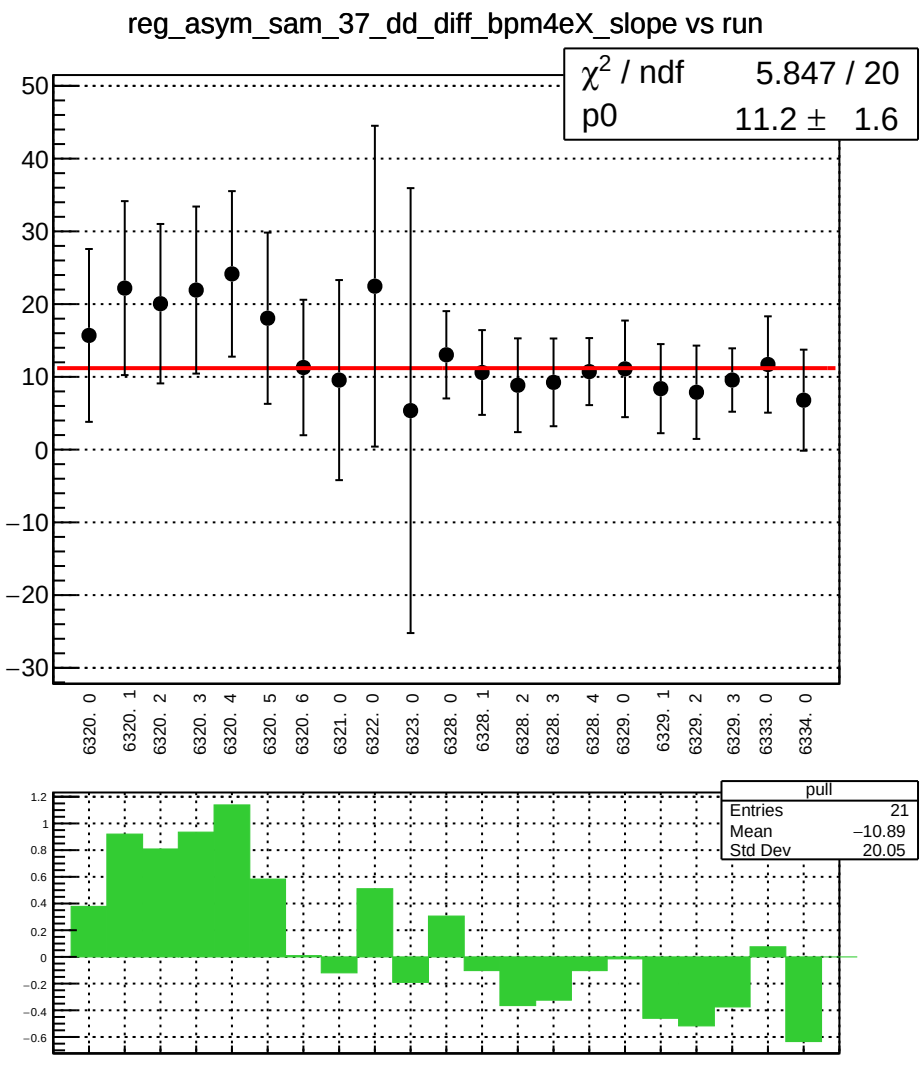

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 7.511 / 20
p0 0.2874 ± 0.0683
3
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.121
Std Dev 12.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

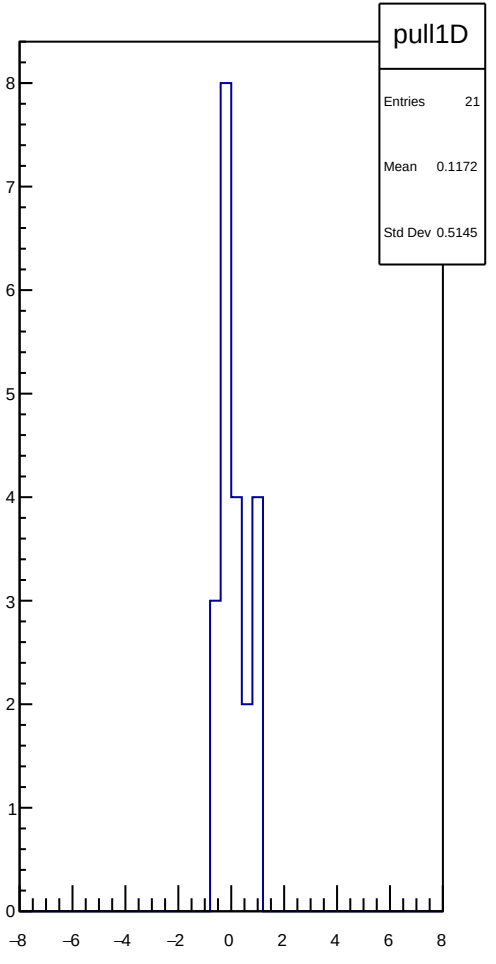

pull1D
Entries 21
Mean −0.2062
Std Dev 0.5614
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

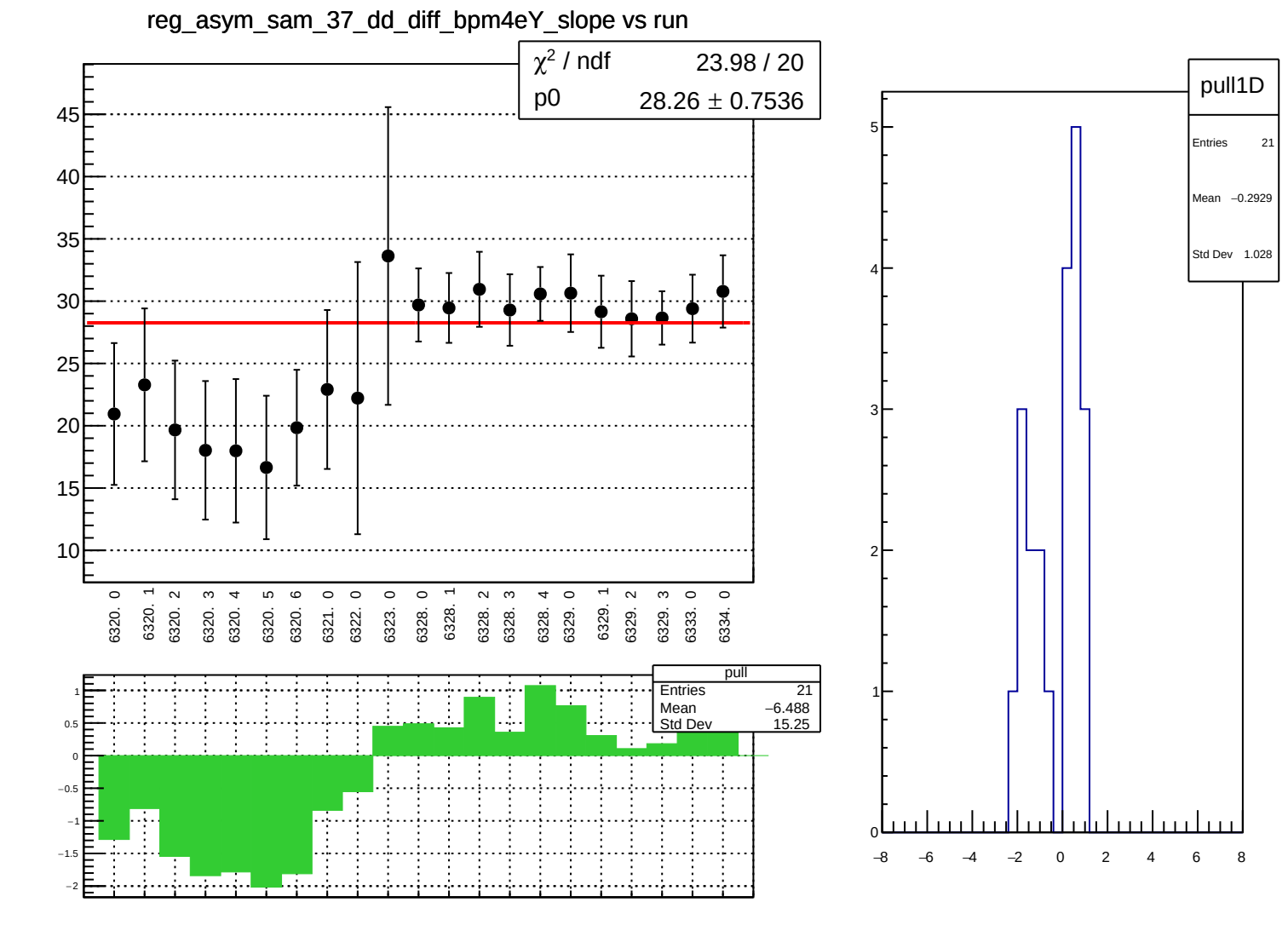

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.099 / 20
p0 −48.85 ± 1.47
−10
−20
−30
−40
−50
−60
−70
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.47
Std Dev 22.85
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

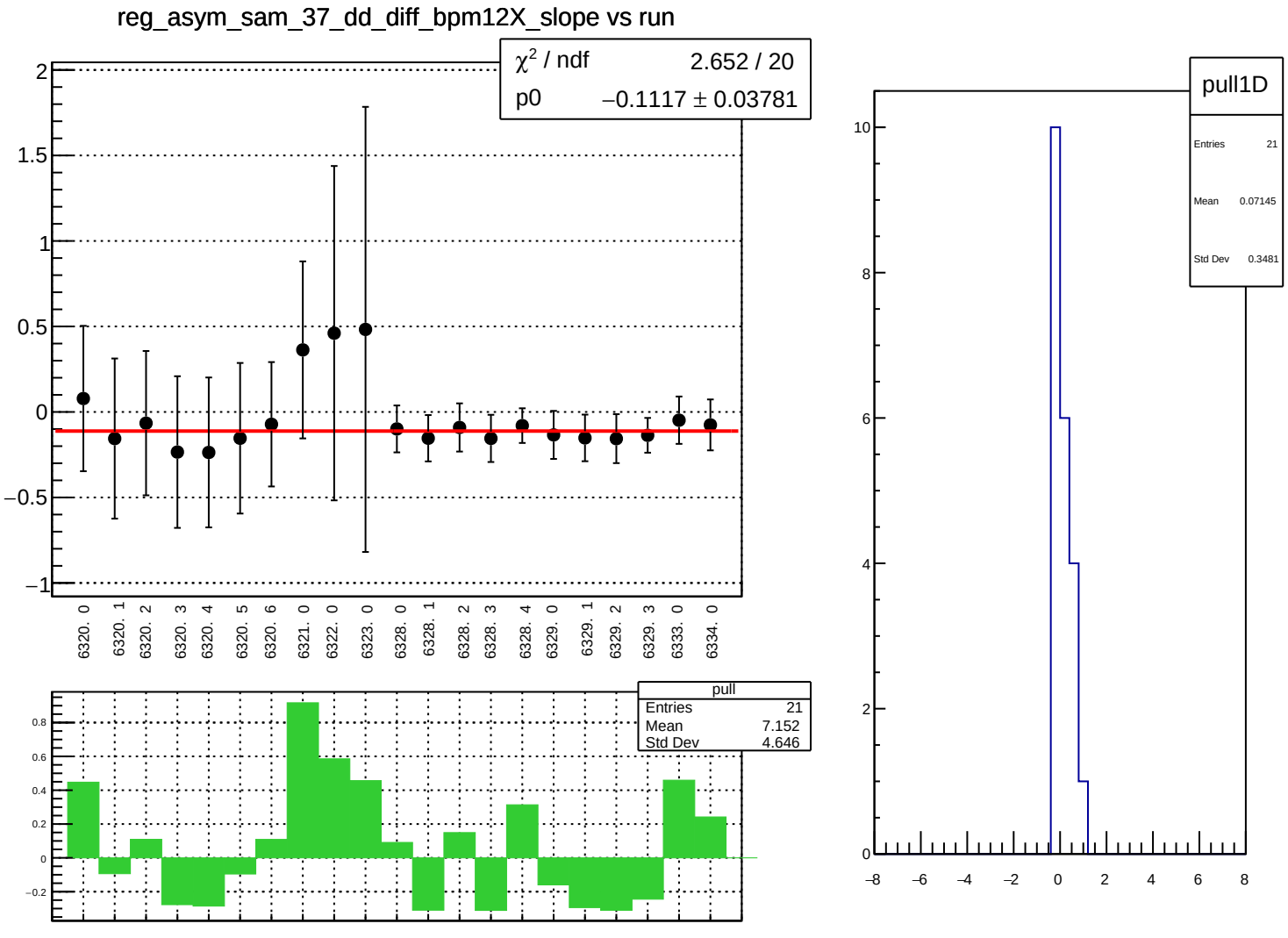

pull1D
Entries 21
Mean −0.09392
Std Dev 0.4837
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

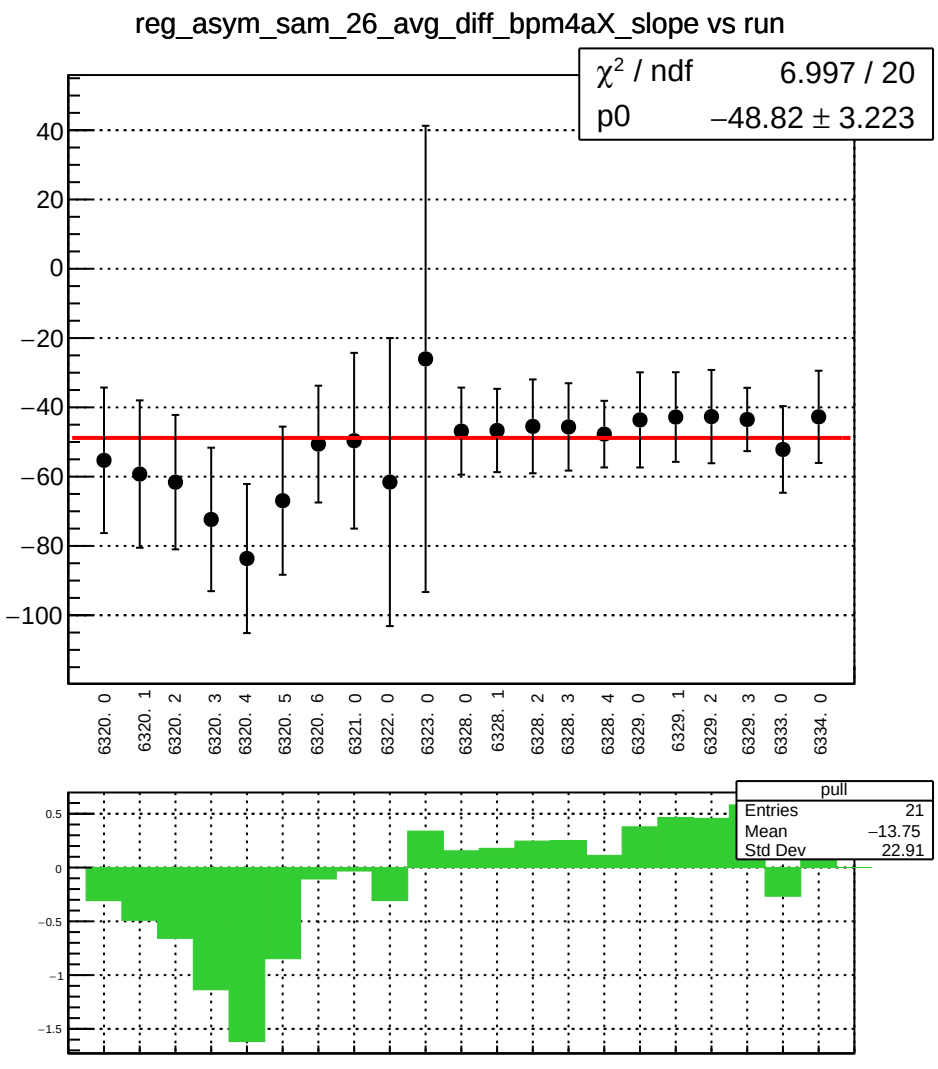

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.65 / 20
p0 −10.36 ± 0.6829
5
0
−5
−10
−15
−20
−25
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.85
Std Dev 19.91
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1568
Std Dev 0.728
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

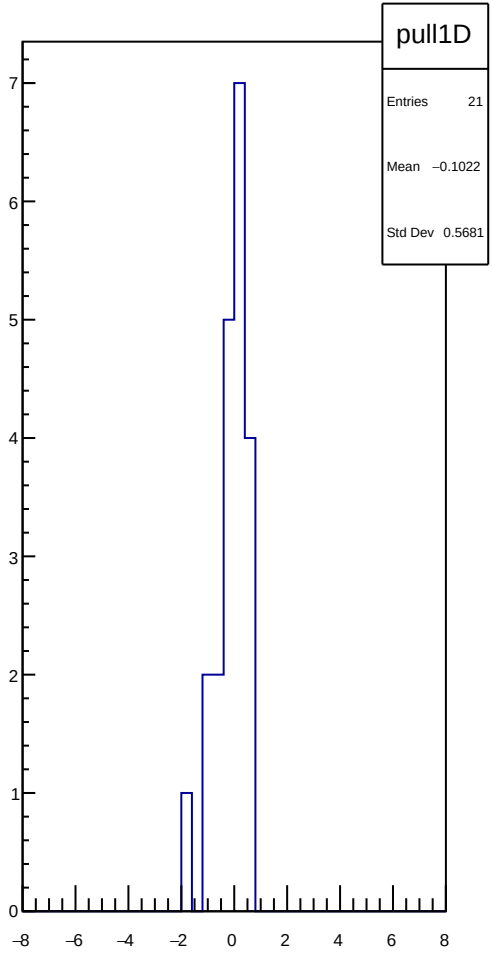

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.847 / 20
p0 11.2 ± 1.6
50
40
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.89
Std Dev 20.05
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

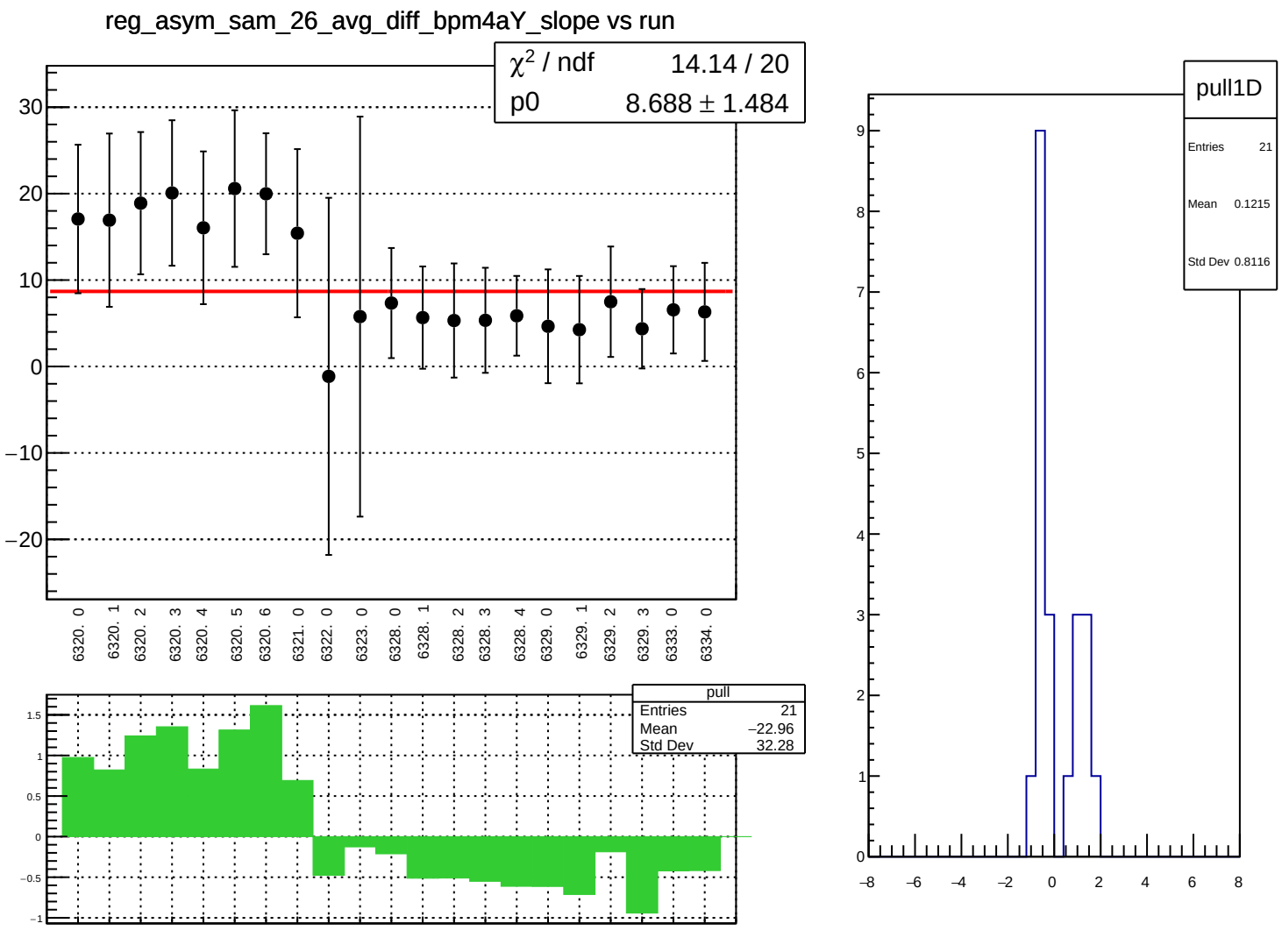

pull1D
Entries 21
Mean 0.1172
Std Dev 0.5145
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

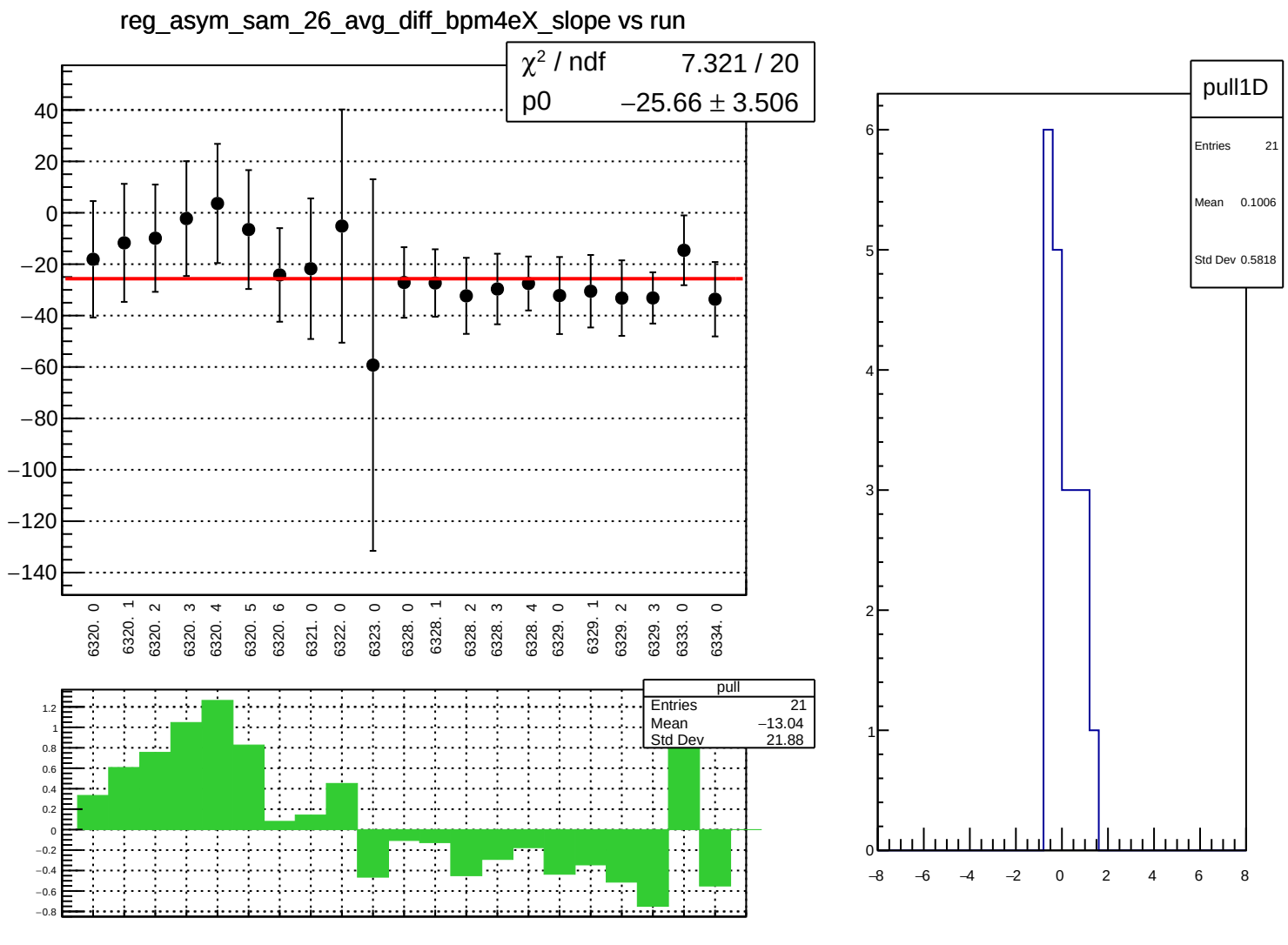

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.98 / 20
p0 28.26 ± 0.7536
45
40
35
30
25
20
15
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.488
Std Dev 15.25
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.2929
Std Dev 1.028
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

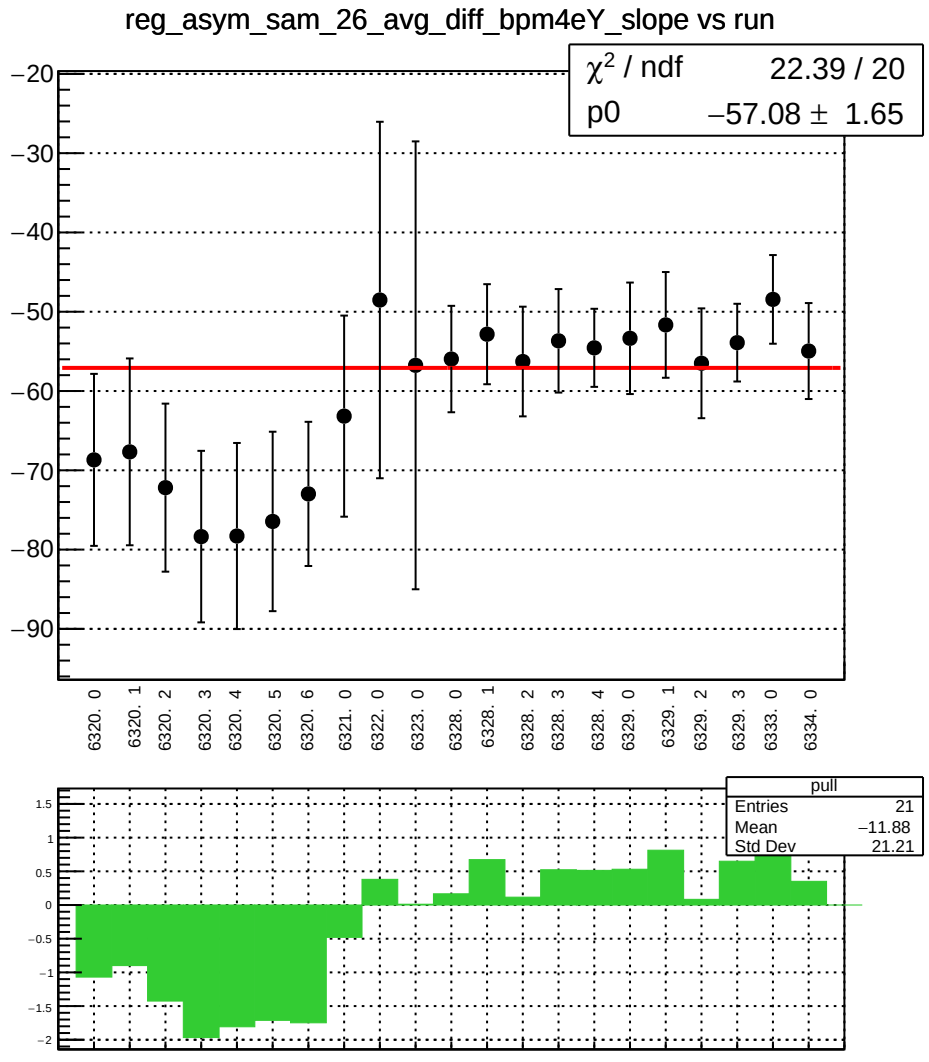

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.652 / 20
p0 −0.1117 ± 0.03781
2
1.5
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 7.152
Std Dev 4.646
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 21
Mean 0.07145
Std Dev 0.3481
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

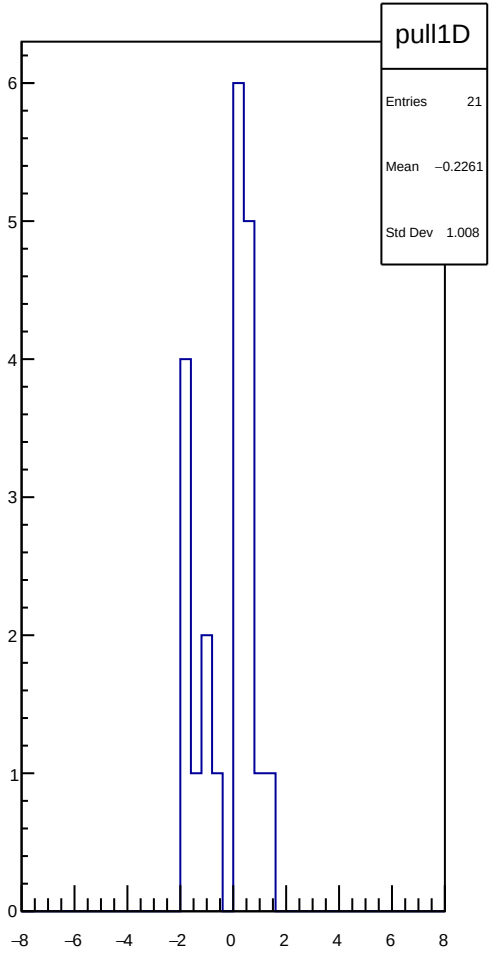

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.997 / 20
p0 −48.82 ± 3.223
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.75
Std Dev 22.91
0.5
0
−0.5
−1
−1.5

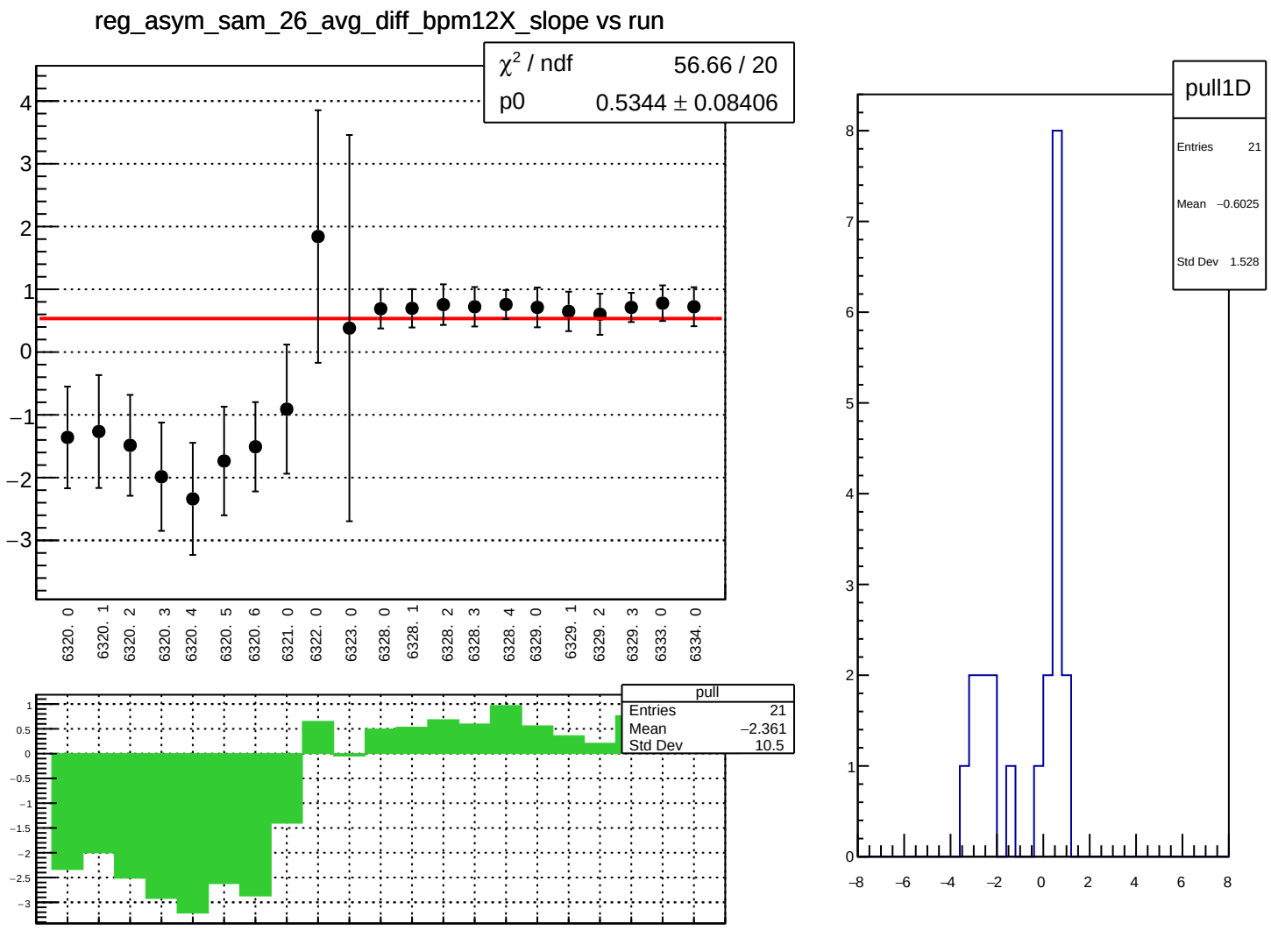

pull1D
Entries 21
Mean −0.1022
Std Dev 0.5681
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

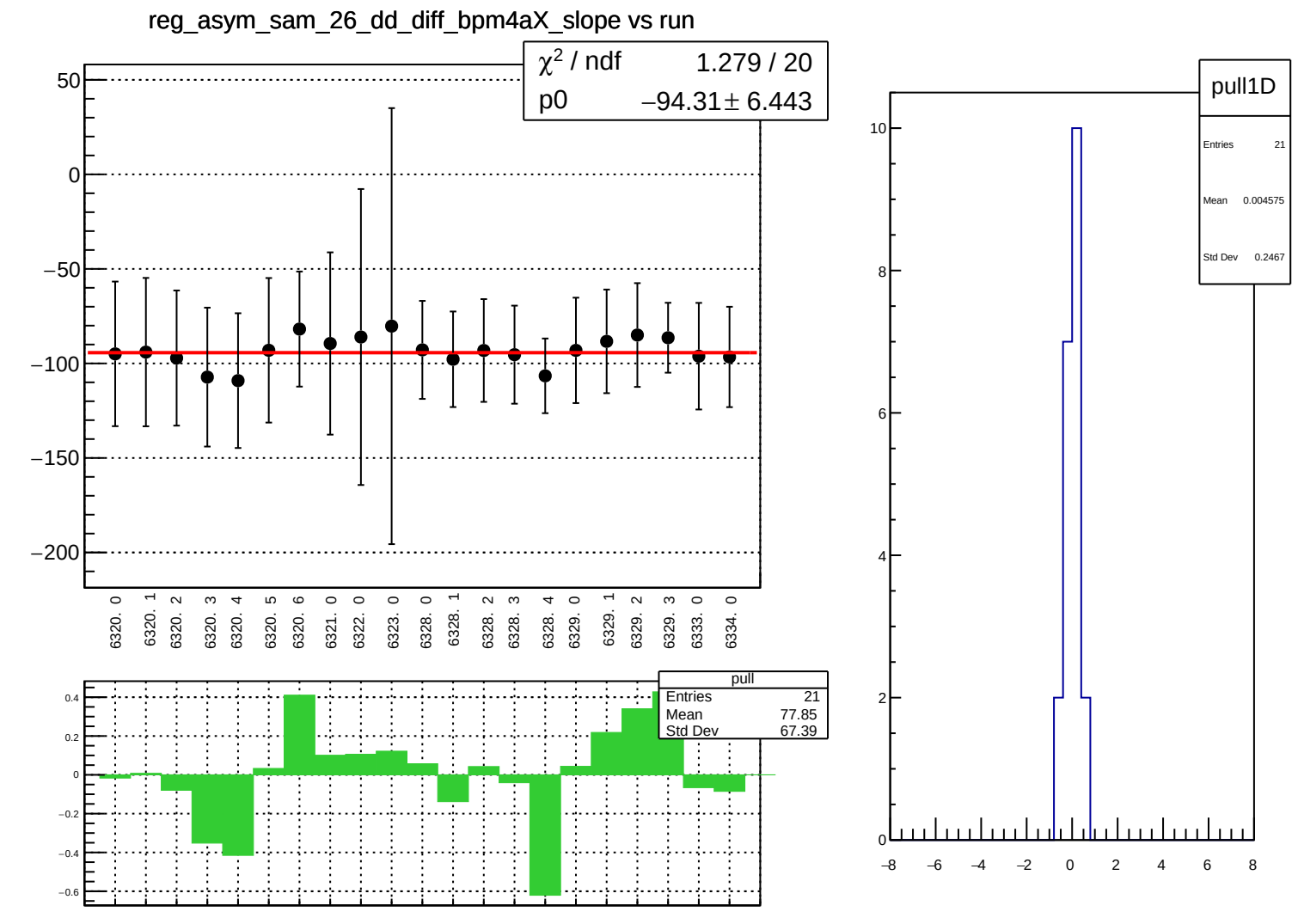

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.14 / 20
p0 8.688 ± 1.484
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −22.96
Std Dev 32.28
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.1215
Std Dev 0.8116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

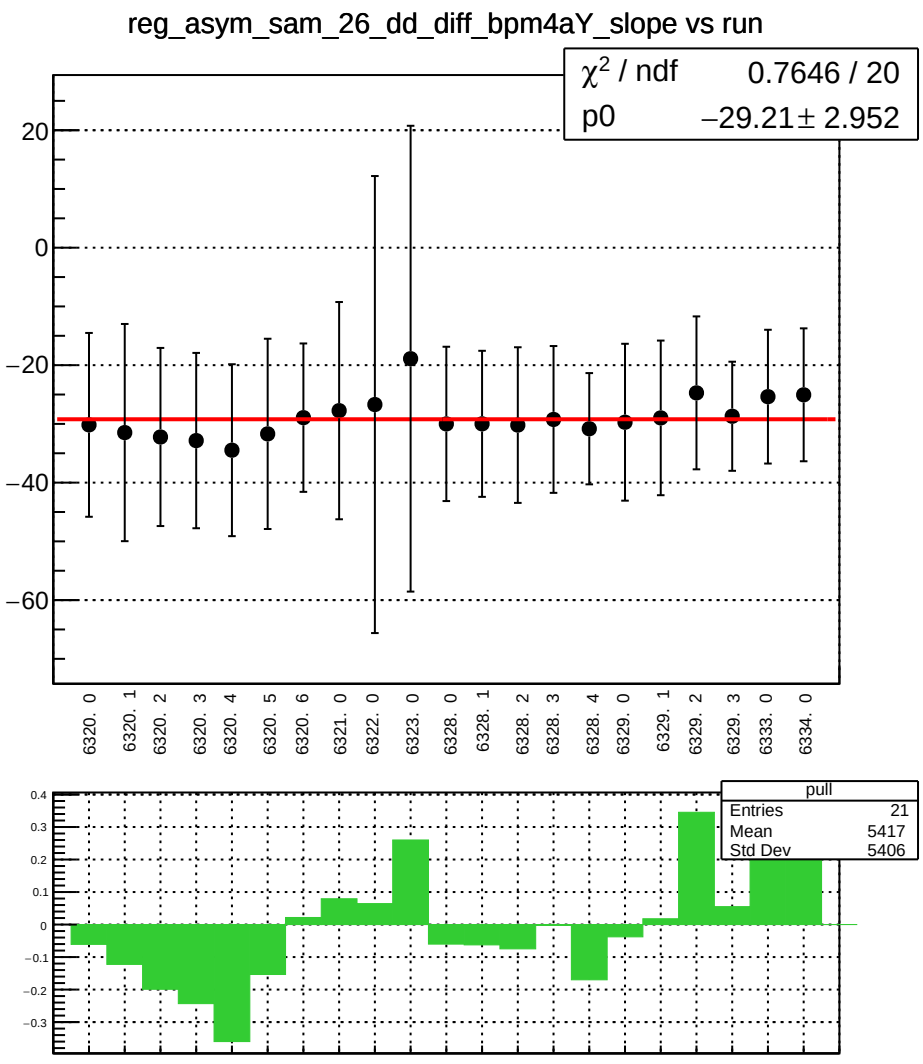

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.321 / 20
p0 −25.66 ± 3.506
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.04
Std Dev 21.88
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1006
Std Dev 0.5818
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

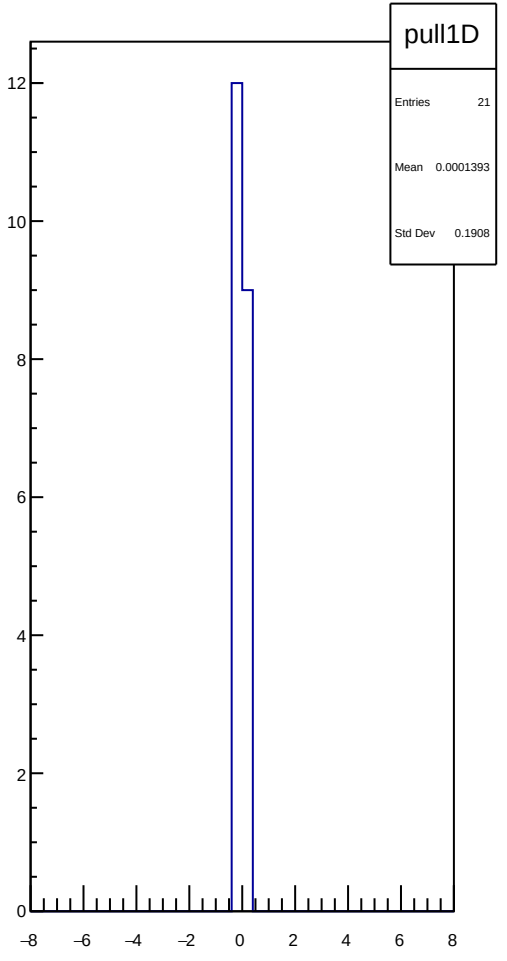

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.39 / 20
p0 −57.08 ± 1.65
−20
−30
−40
−50
−60
−70
−80
−90
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −11.88
Std Dev 21.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

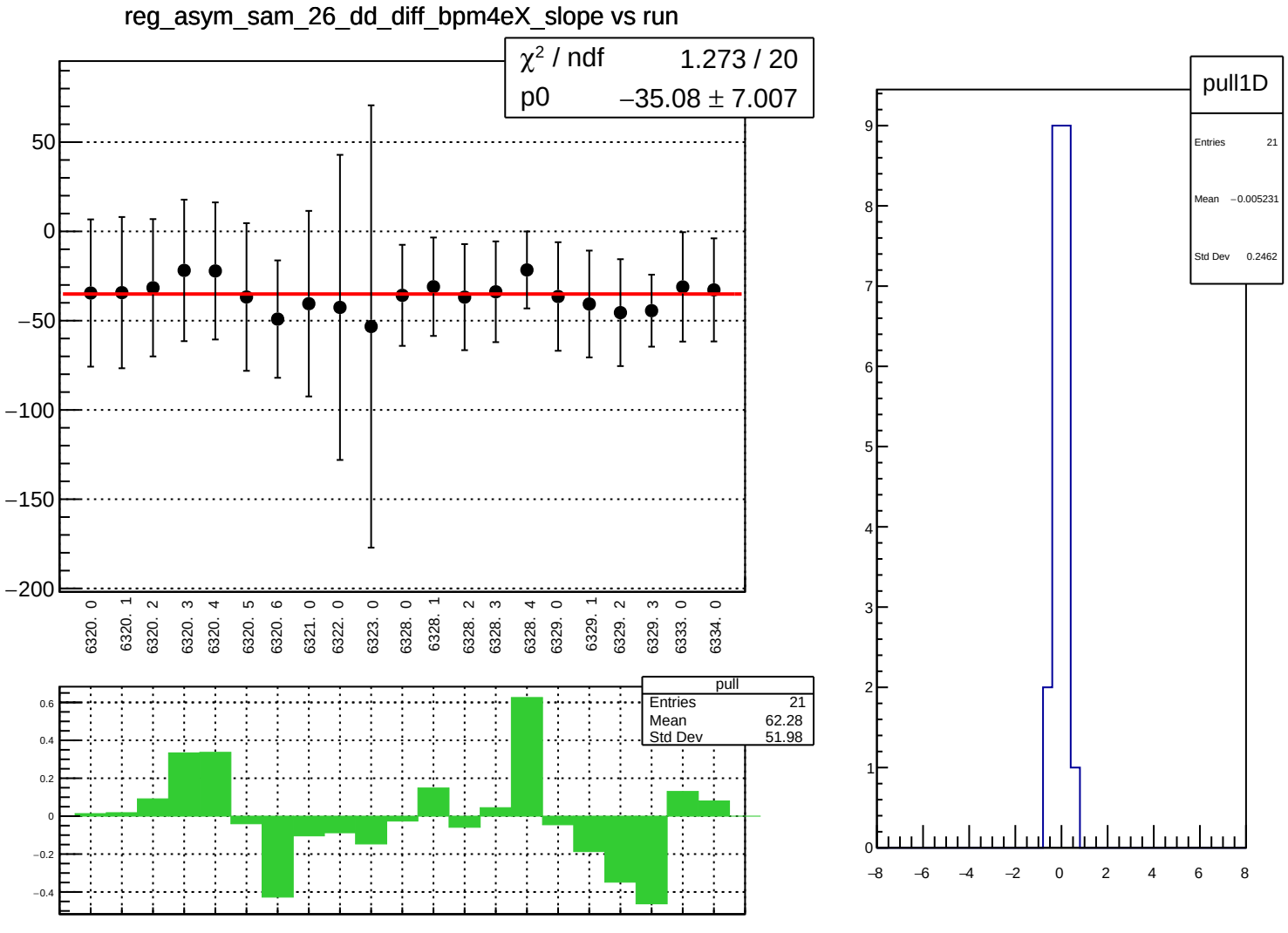

pull1D
Entries 21
Mean −0.2261
Std Dev 1.008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

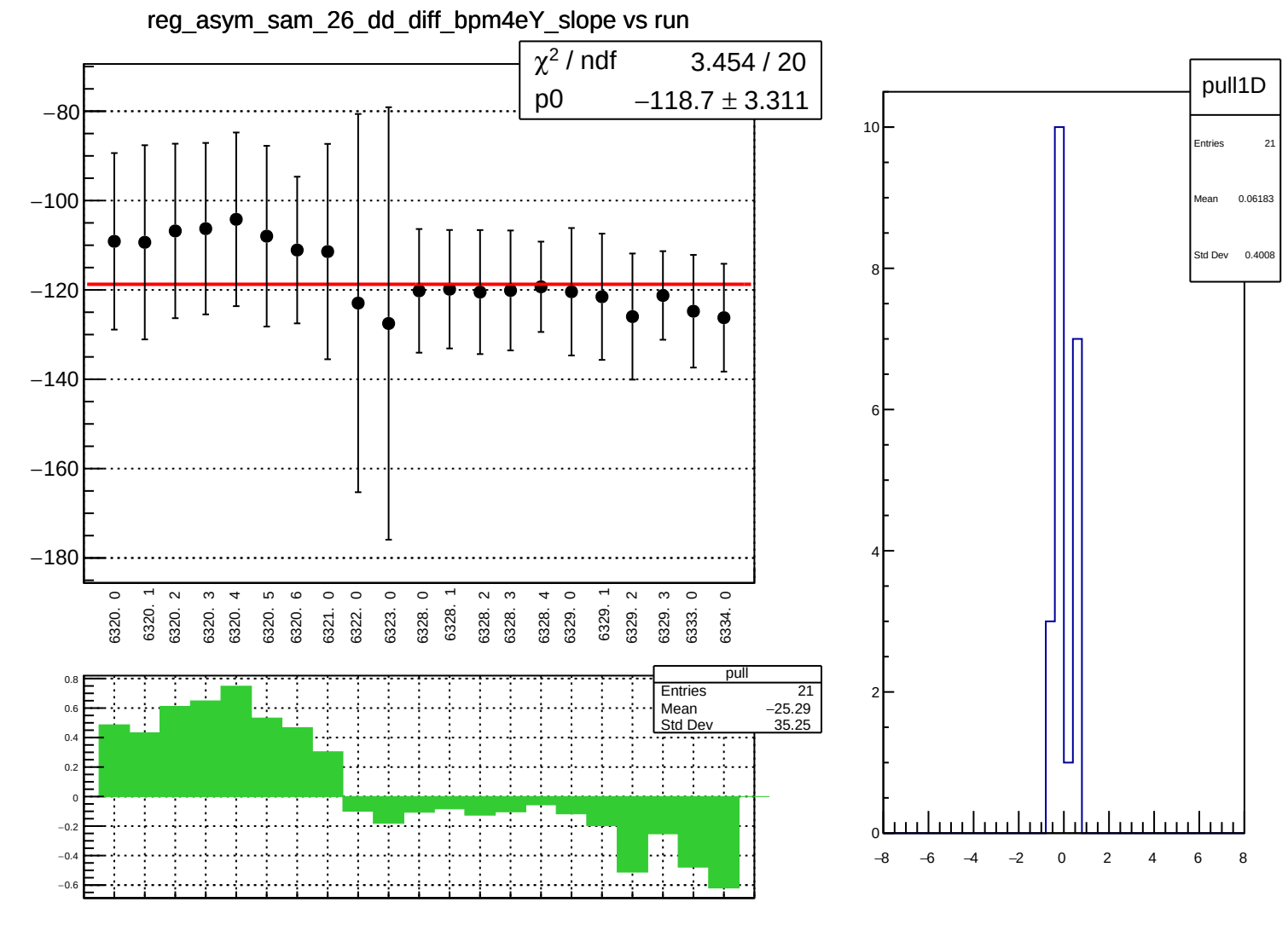

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 56.66 / 20
p0 0.5344 ± 0.08406
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.361
Std Dev 10.5
pull1D
Entries 21
Mean −0.6025
Std Dev 1.528

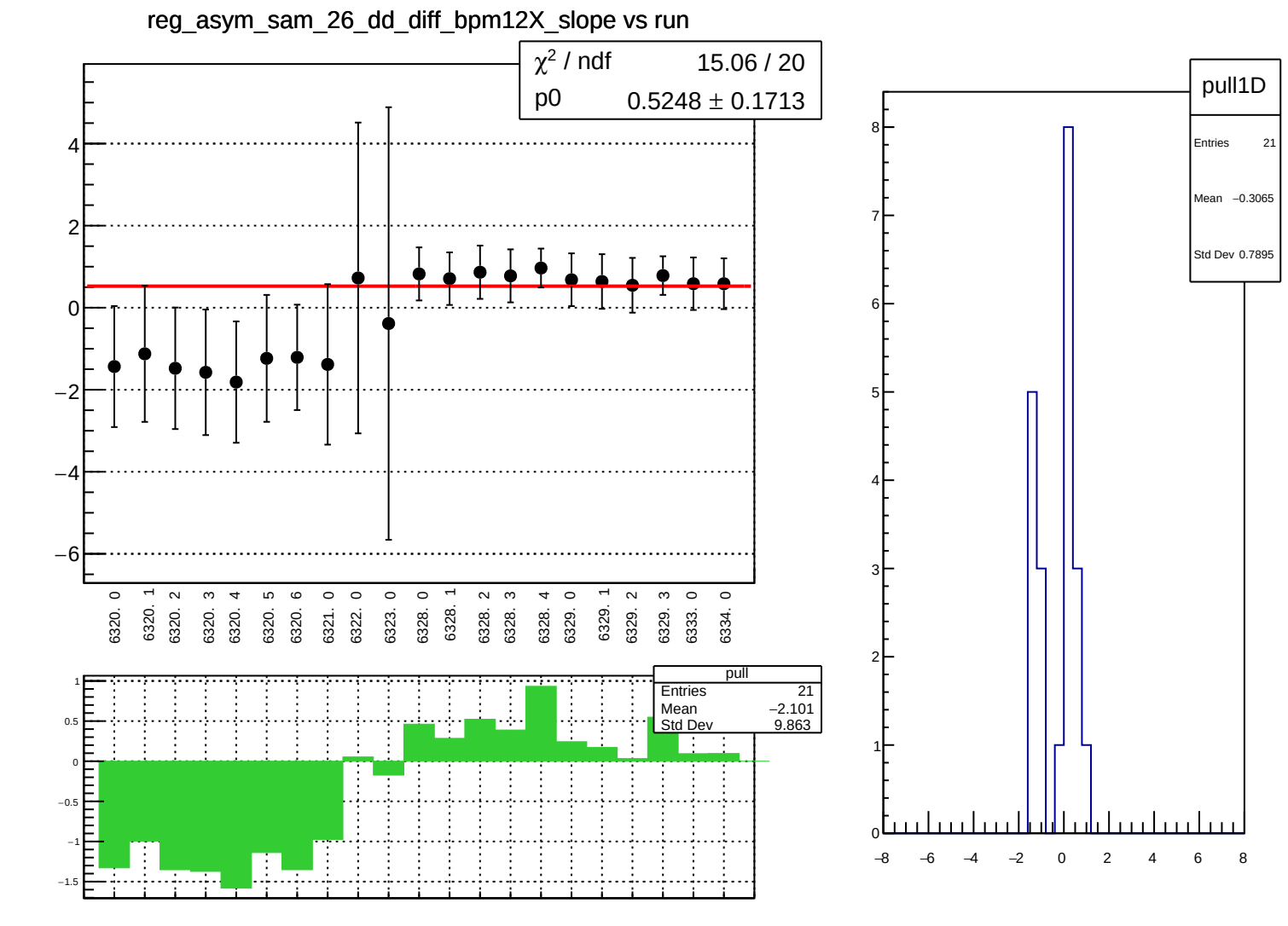

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.279 / 20
p0 −94.31 ± 6.443
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 77.85
Std Dev 67.39
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.004575
Std Dev 0.2467
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

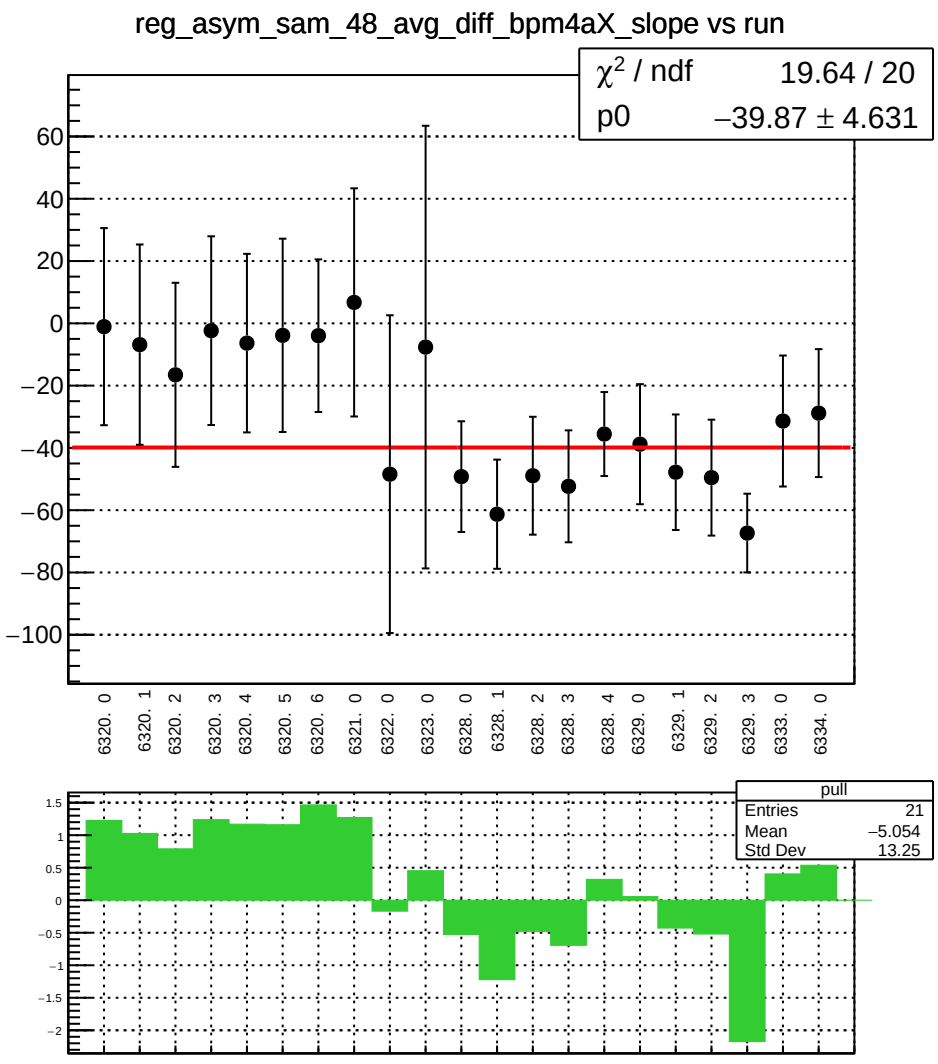

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7646 / 20
p0 −29.21± 2.952
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 5417
Std Dev 5406
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

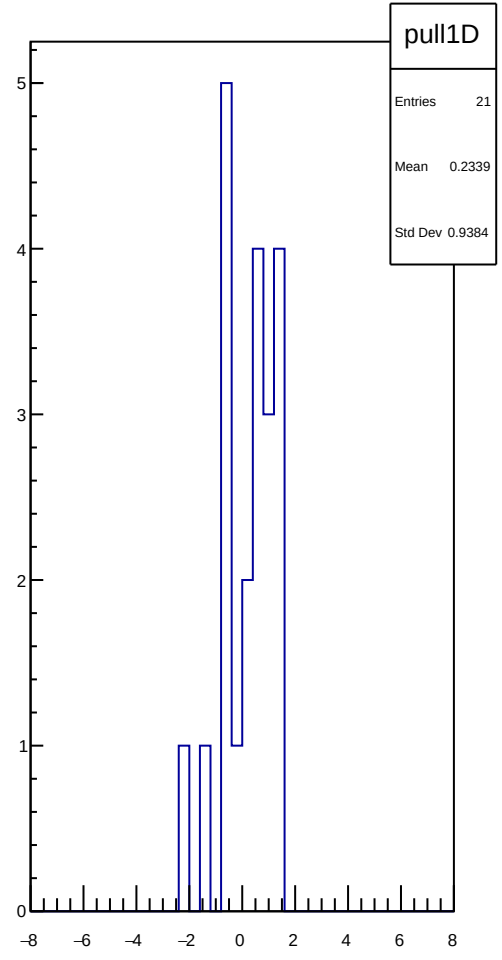

pull1D
Entries 21
Mean 0.0001393
Std Dev 0.1908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

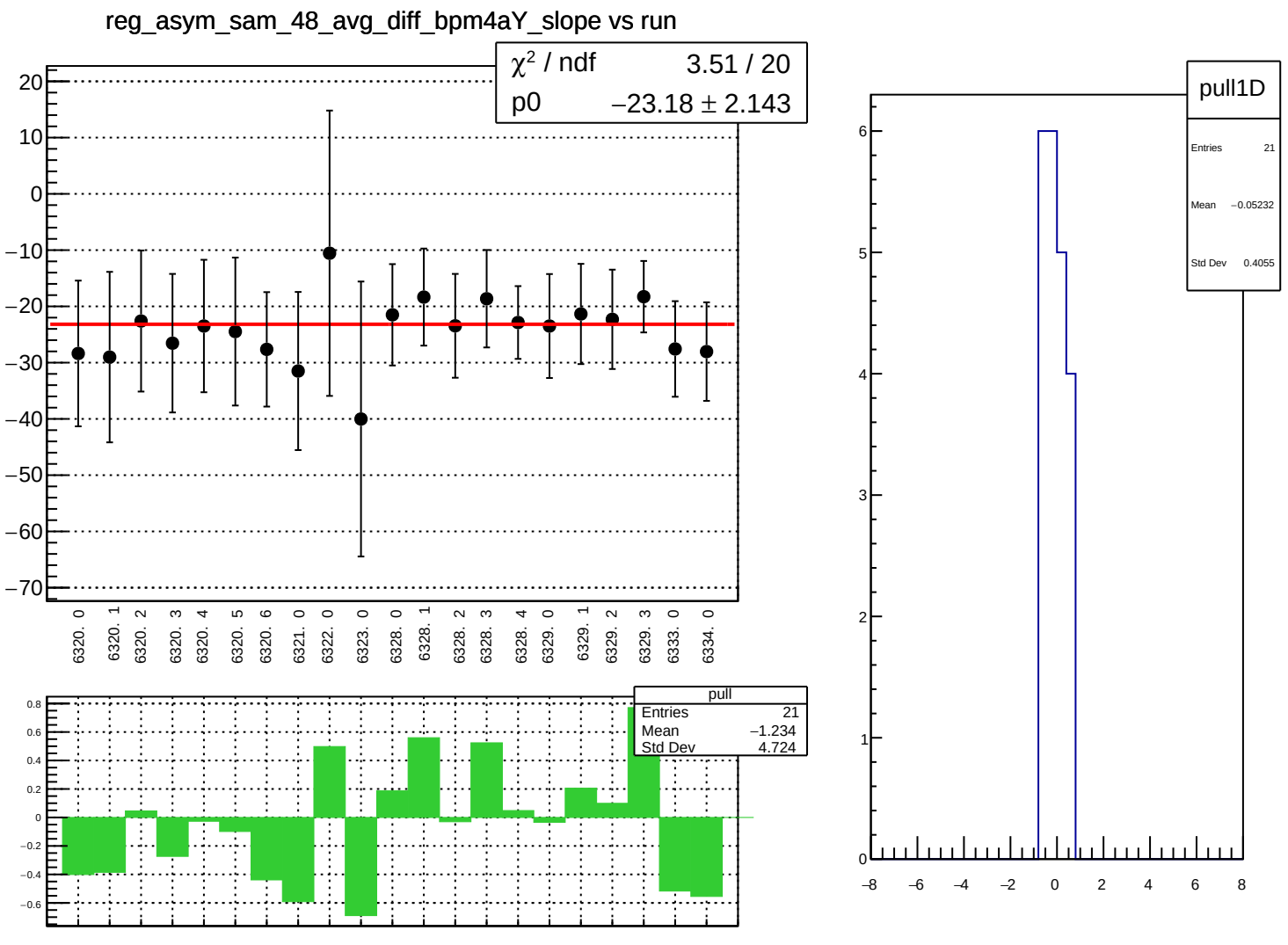

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.273 / 20
p0 −35.08 ± 7.007
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.28
Std Dev 51.98
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean −0.005231
Std Dev 0.2462
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

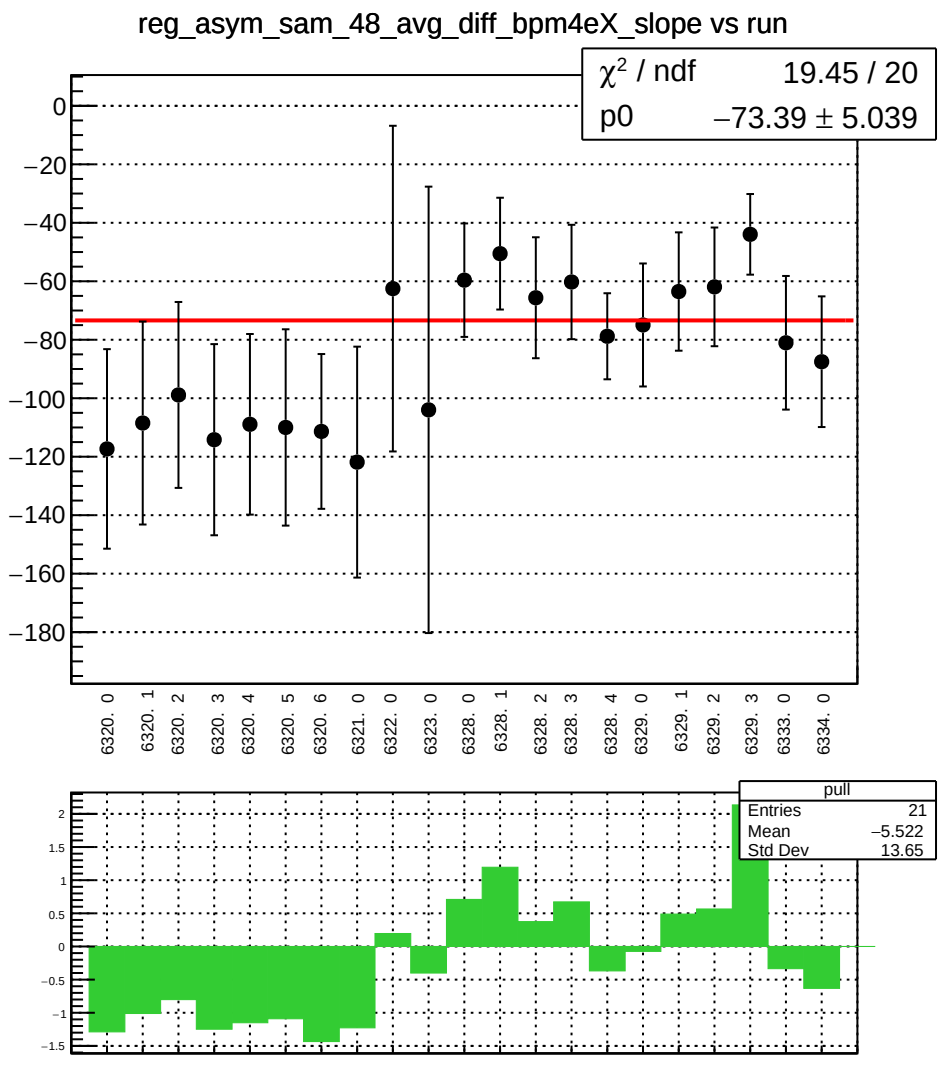

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.454 / 20
p0 −118.7 ± 3.311
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −25.29
Std Dev 35.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.06183
Std Dev 0.4008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

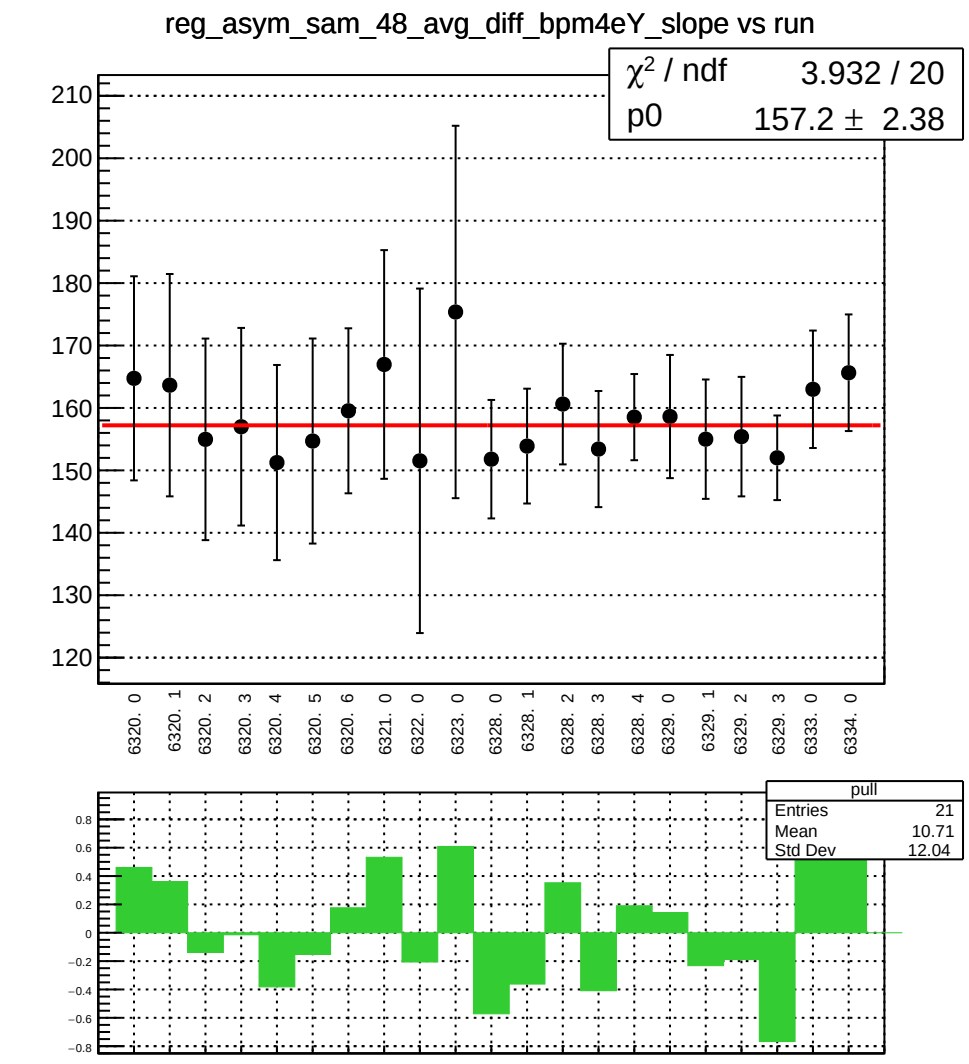

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.06 / 20
p0 0.5248 ± 0.1713
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.101
Std Dev 9.863
pull1D
Entries 21
Mean −0.3065
Std Dev 0.7895

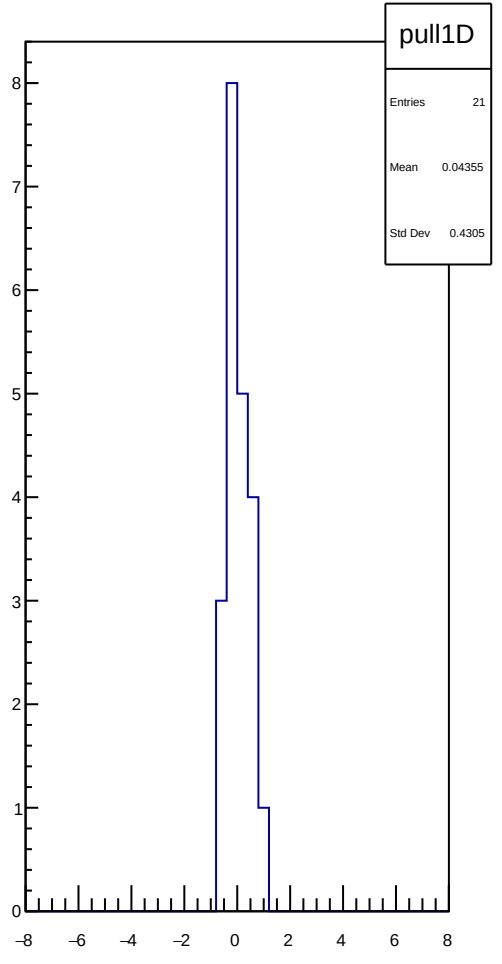

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.64 / 20
p0 −39.87 ± 4.631
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.054
Std Dev 13.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2

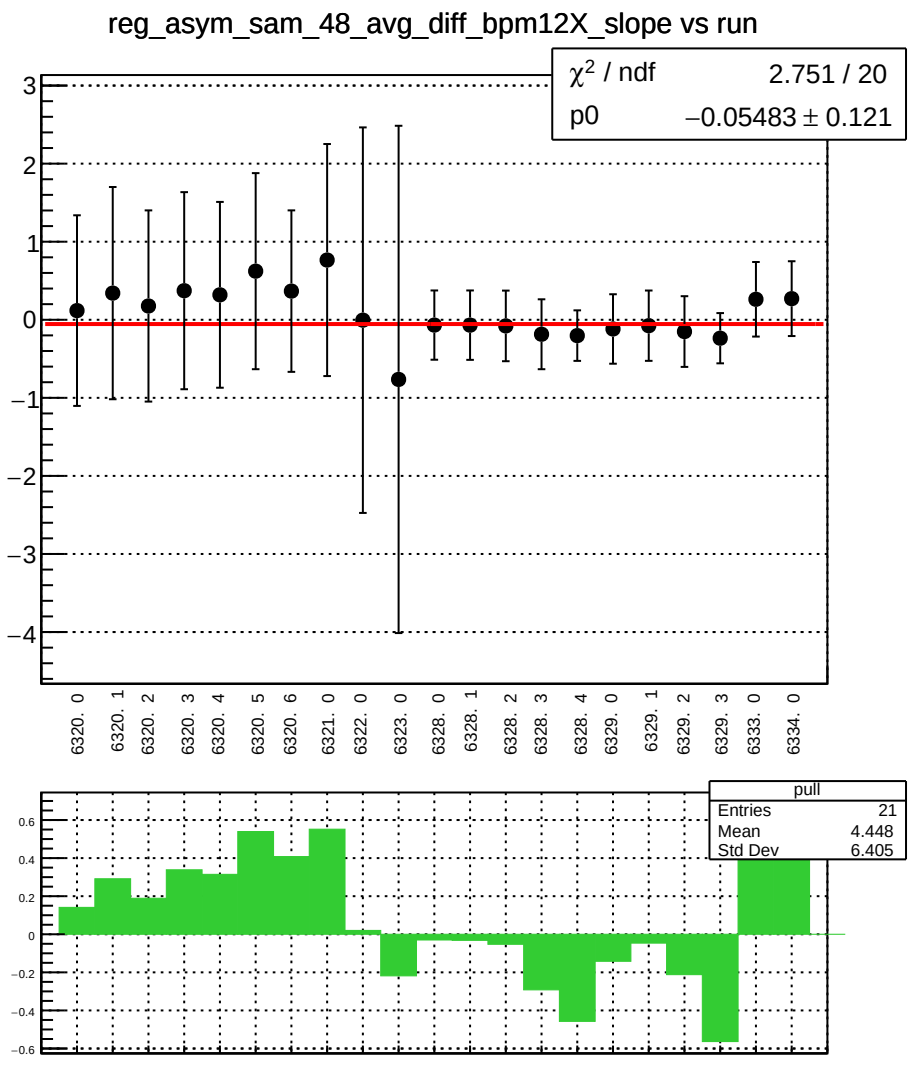

pull1D
Entries 21
Mean 0.2339
Std Dev 0.9384
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

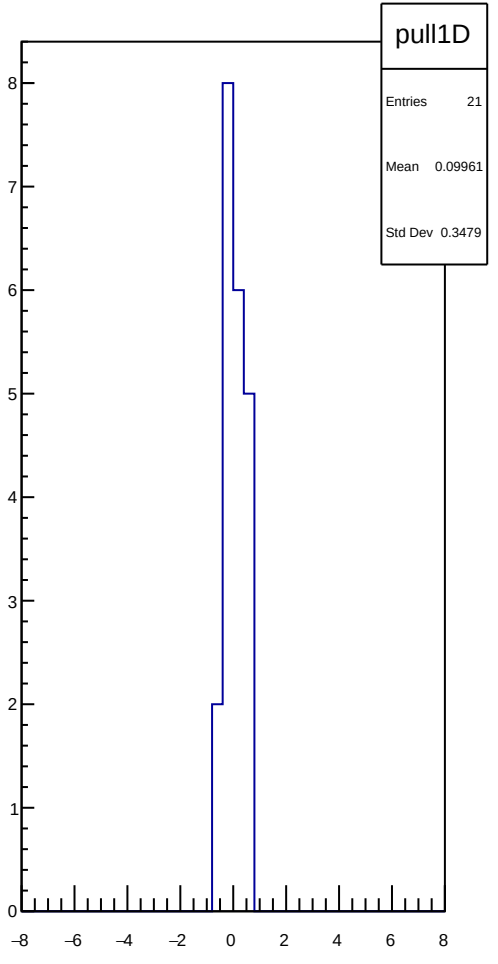

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.51 / 20
p0 −23.18 ± 2.143
20
10
0
−10
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1.234
Std Dev 4.724
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.05232
Std Dev 0.4055
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

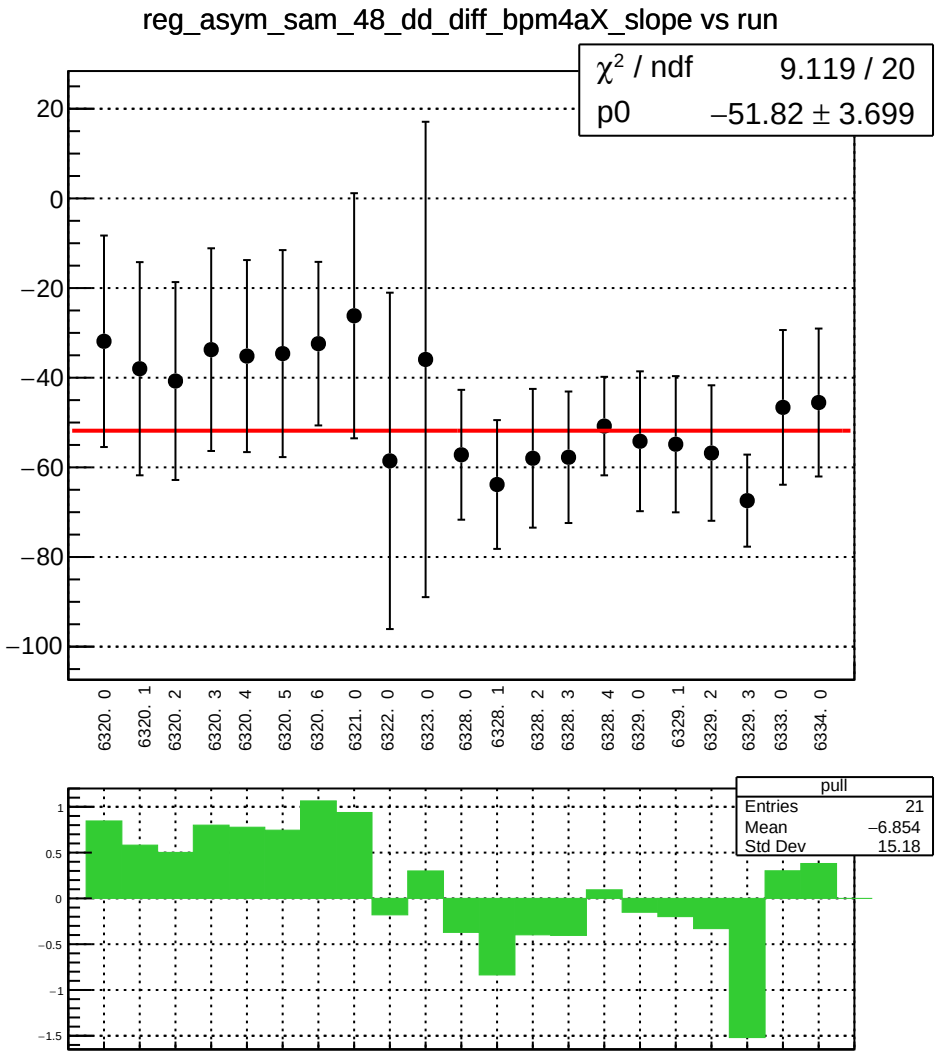

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.45 / 20
p0 −73.39 ± 5.039
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −5.522
Std Dev 13.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.2249
Std Dev 0.9357
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

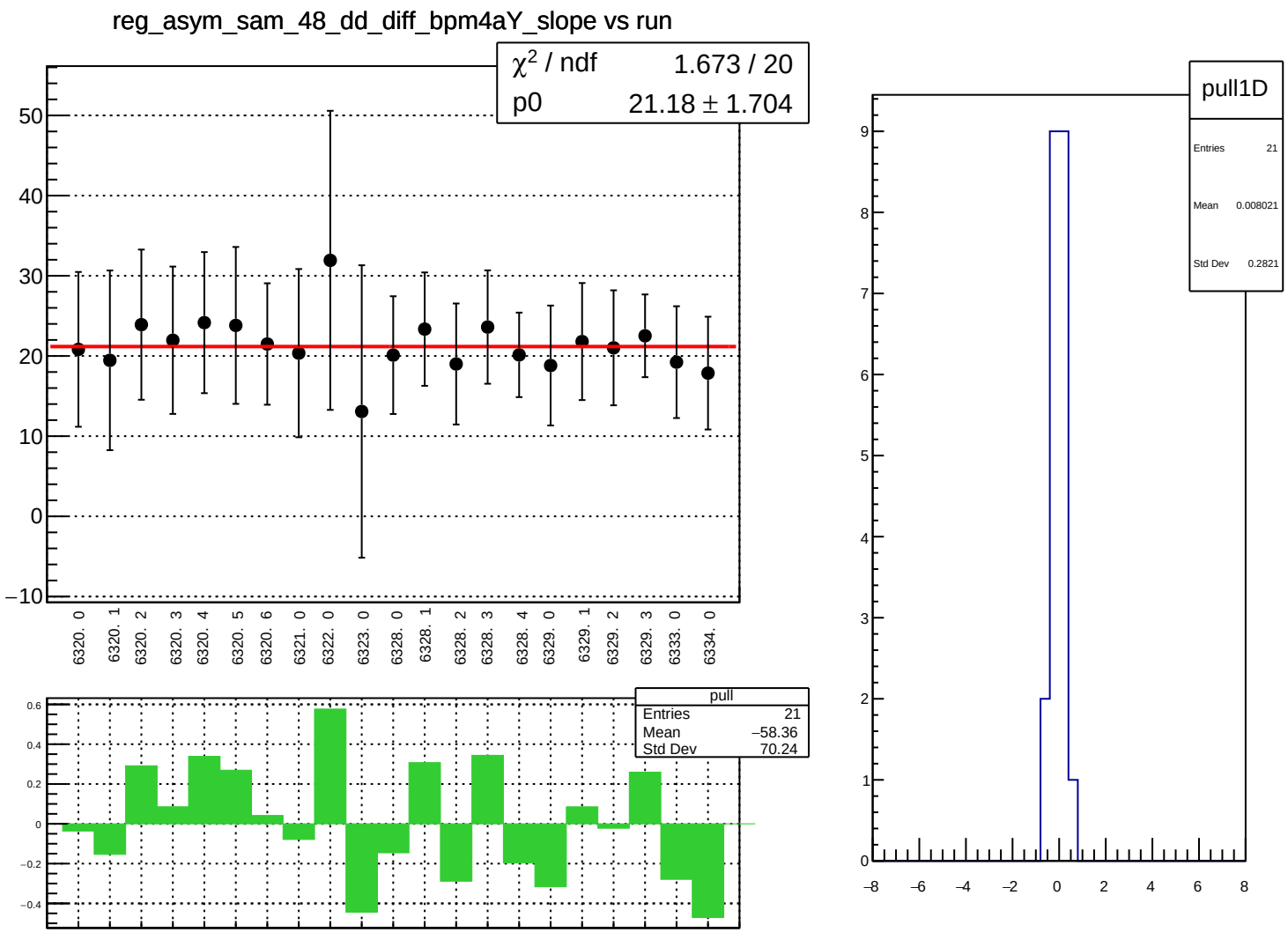

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.932 / 20
p0 157.2 ± 2.38
210
200
190
180
170
160
150
140
130
120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.71
Std Dev 12.04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

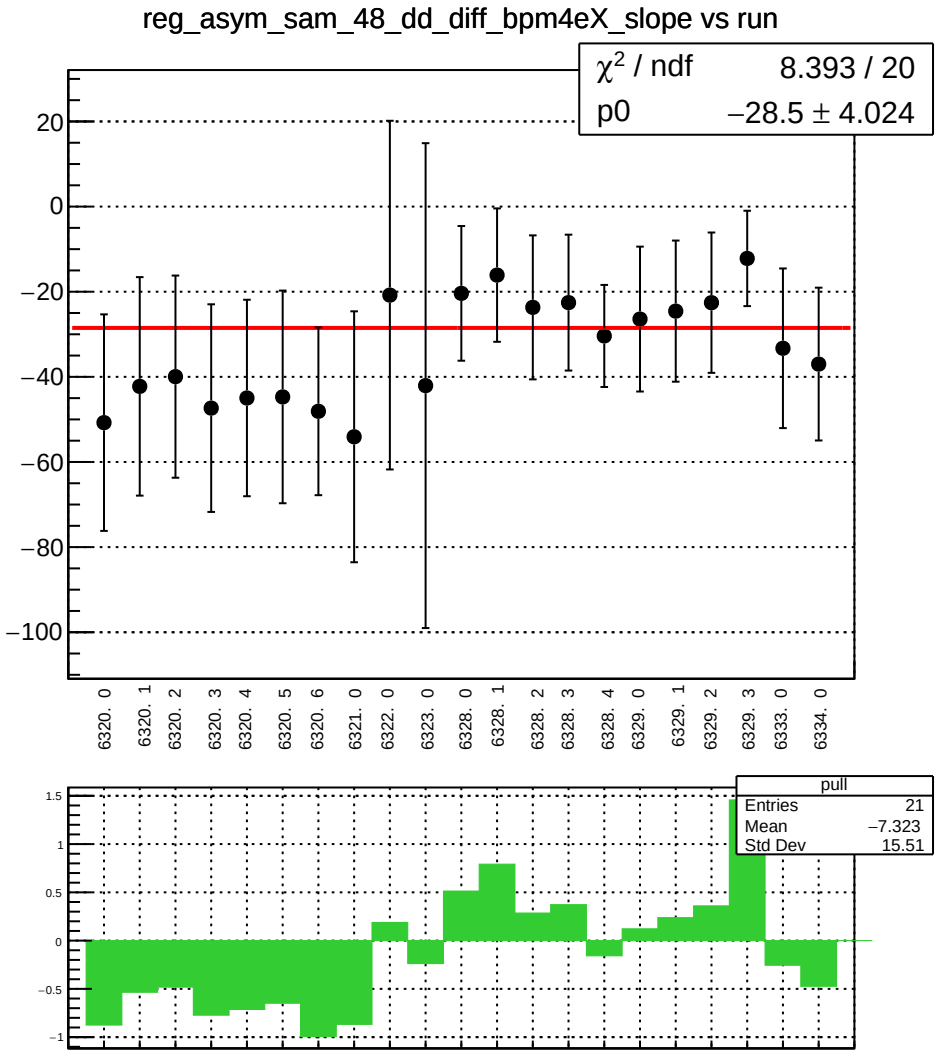

pull1D
Entries 21
Mean 0.04355
Std Dev 0.4305
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

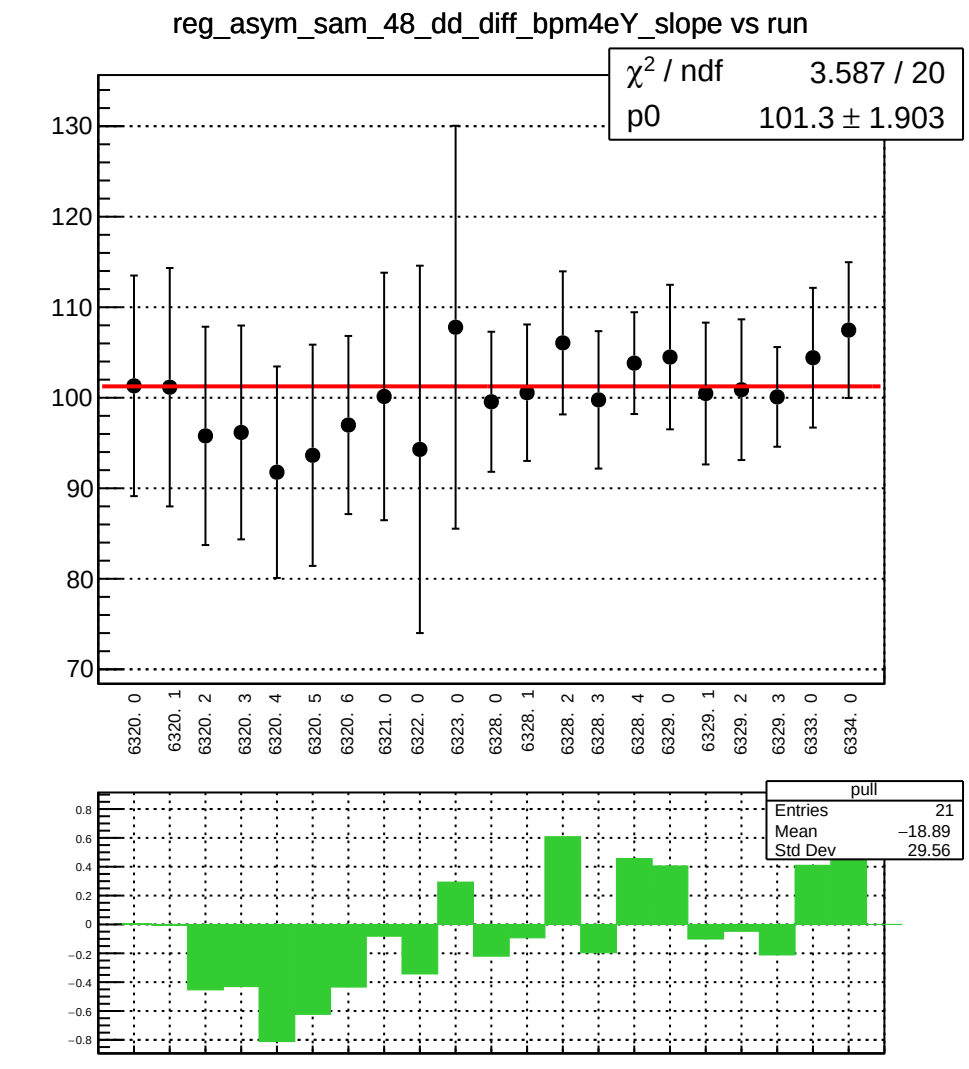

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.751 / 20
p0 −0.05483 ± 0.121
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 4.448
Std Dev 6.405
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

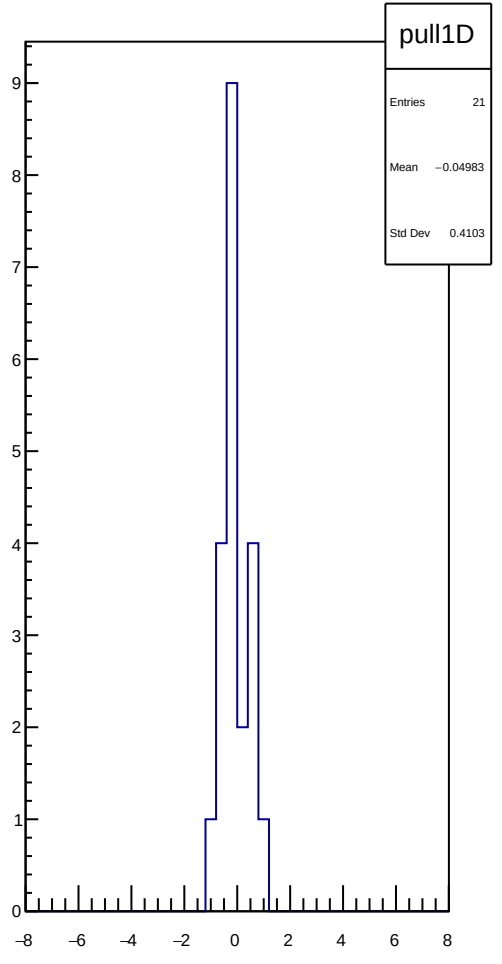

pull1D
Entries 21
Mean 0.09961
Std Dev 0.3479
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

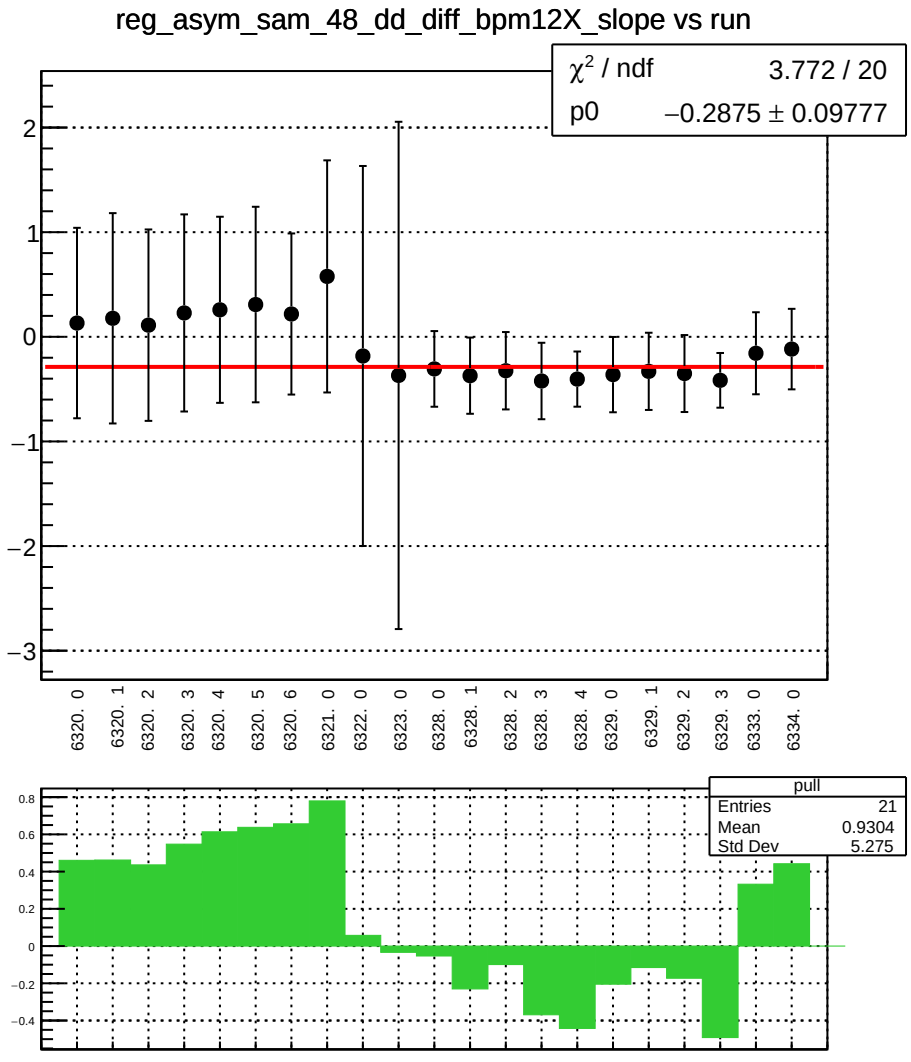

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.119 / 20
p0 −51.82 ± 3.699
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.854
Std Dev 15.18
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1401
Std Dev 0.6439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

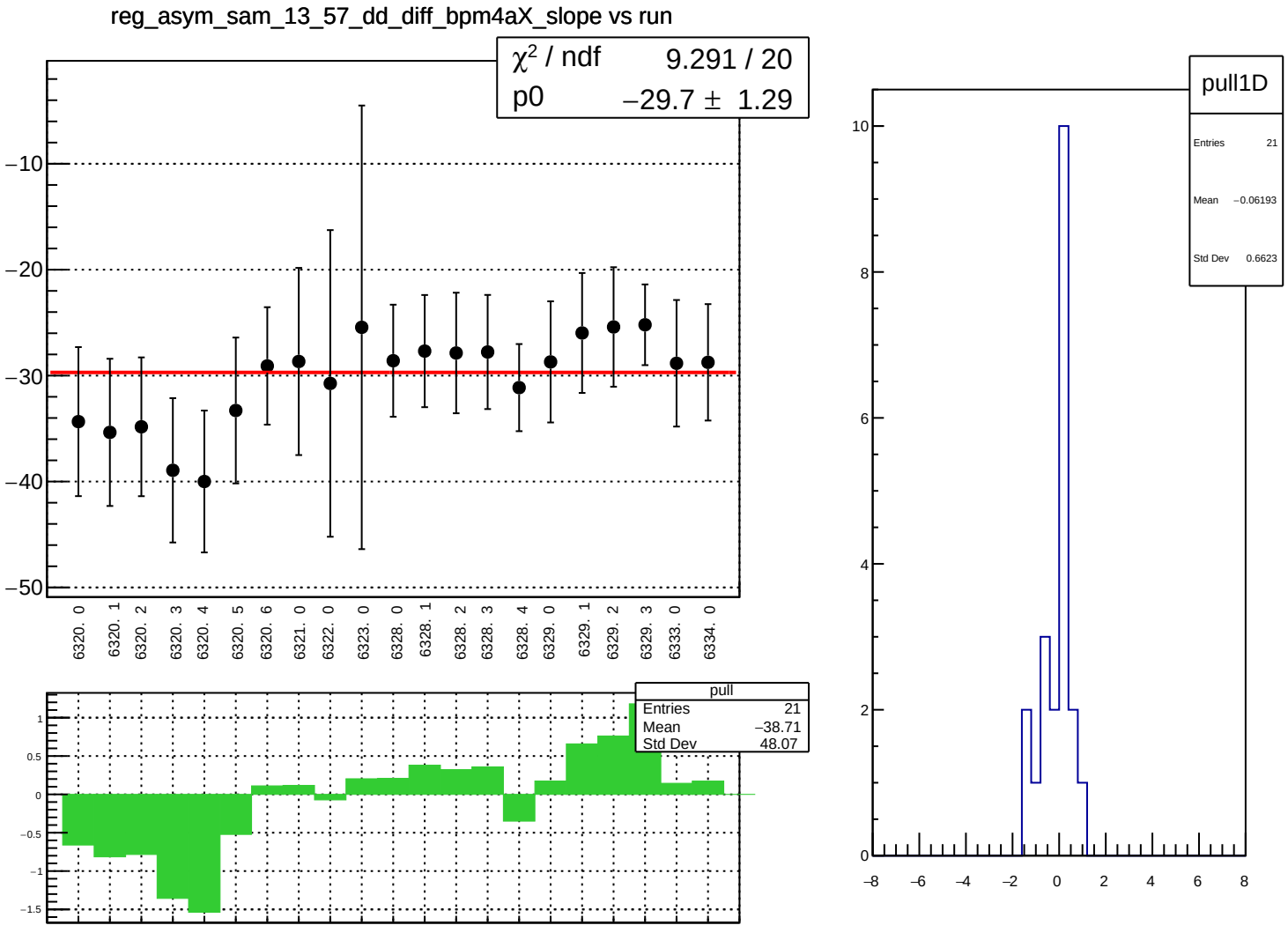

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.673 / 20
p0 21.18 ± 1.704
50
40
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −58.36
Std Dev 70.24
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.008021
Std Dev 0.2821
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

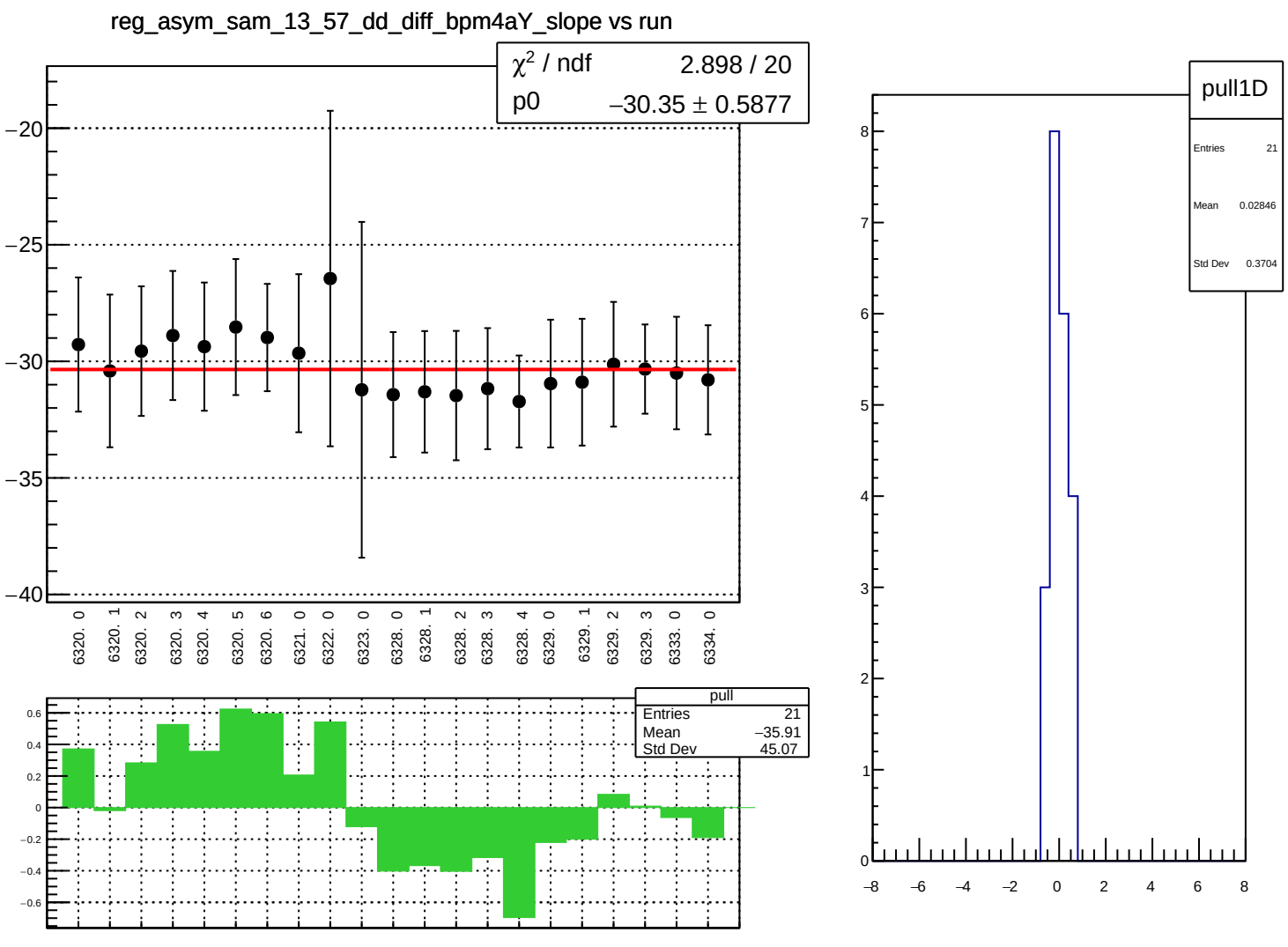

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.393 / 20
p0 −28.5 ± 4.024
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −7.323
Std Dev 15.51
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1278
Std Dev 0.6191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

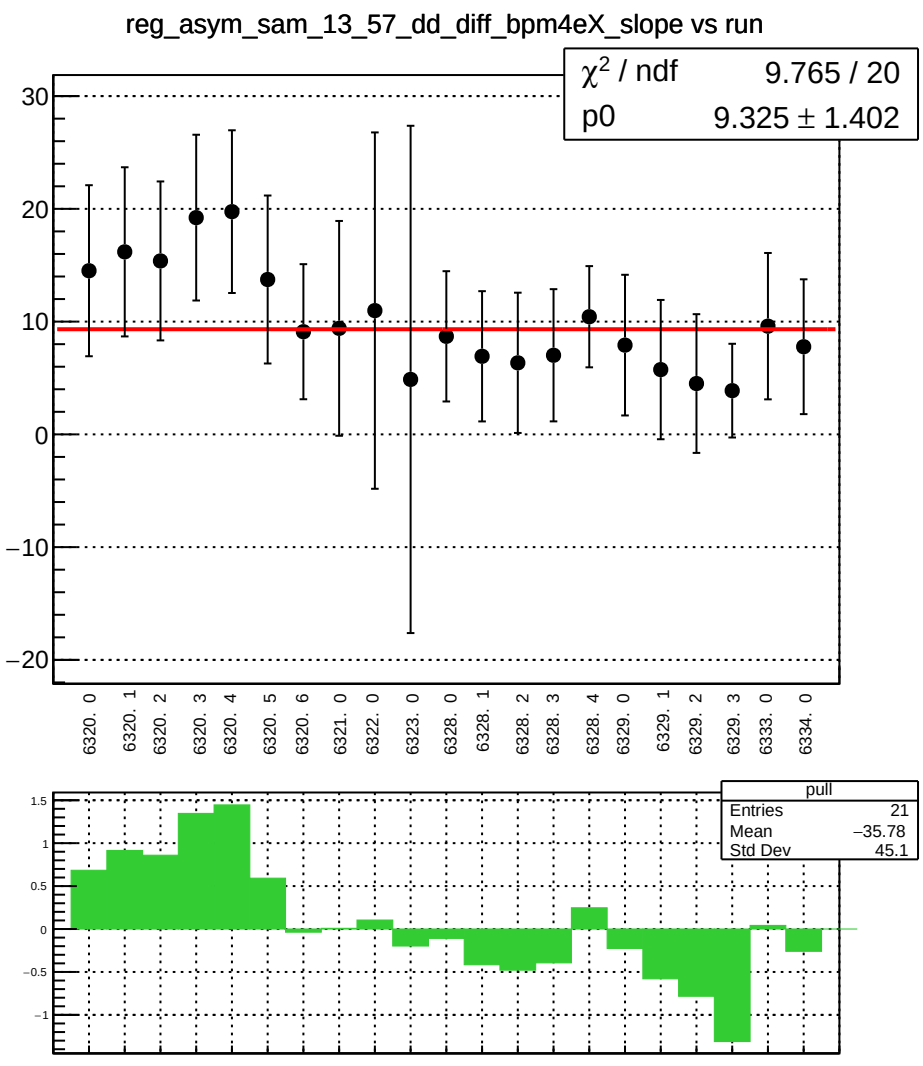

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.587 / 20
p0 101.3 ± 1.903
130
120
110
100
90
80
70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.89
Std Dev 29.56
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

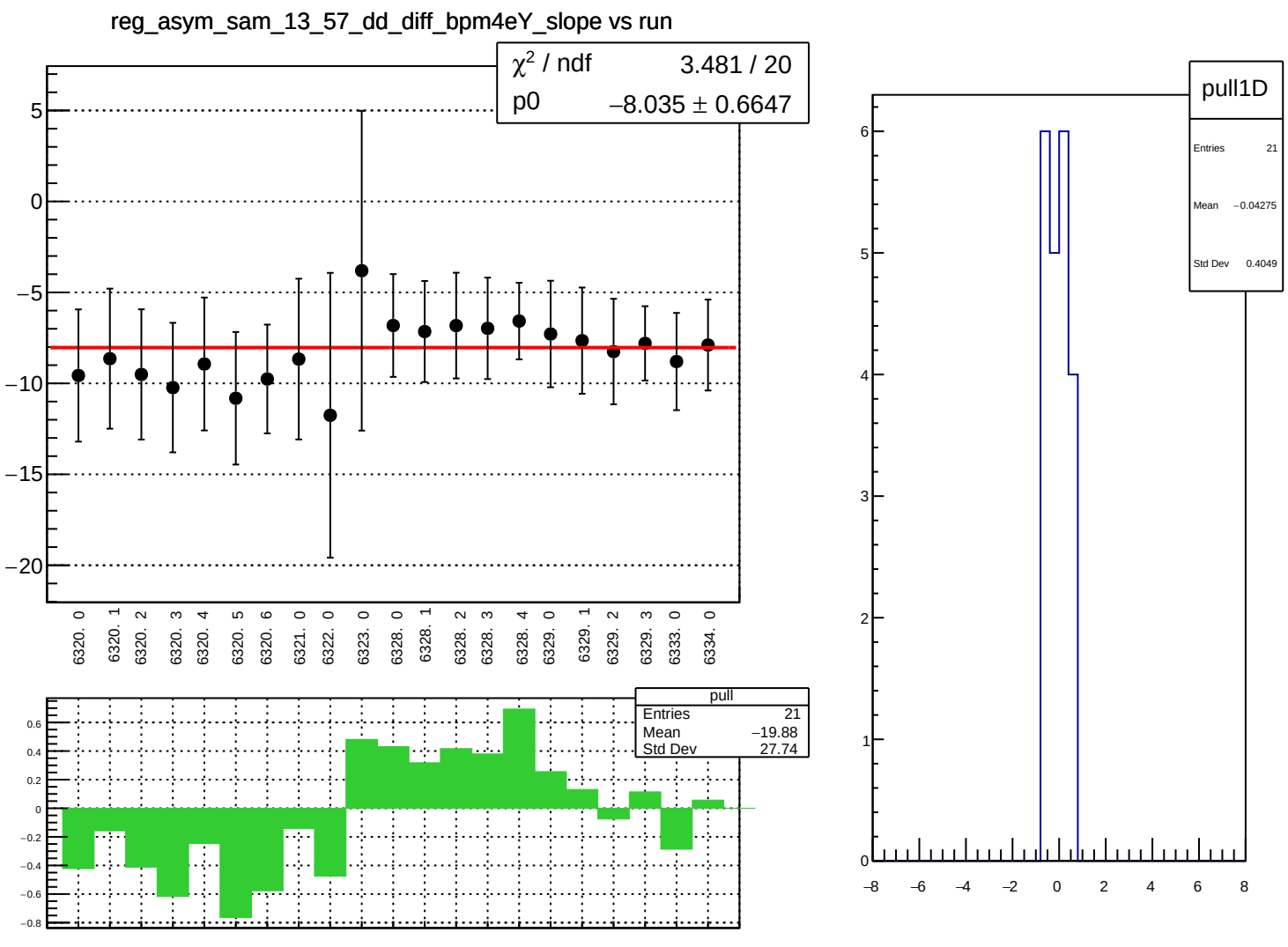

pull1D
Entries 21
Mean −0.04983
Std Dev 0.4103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

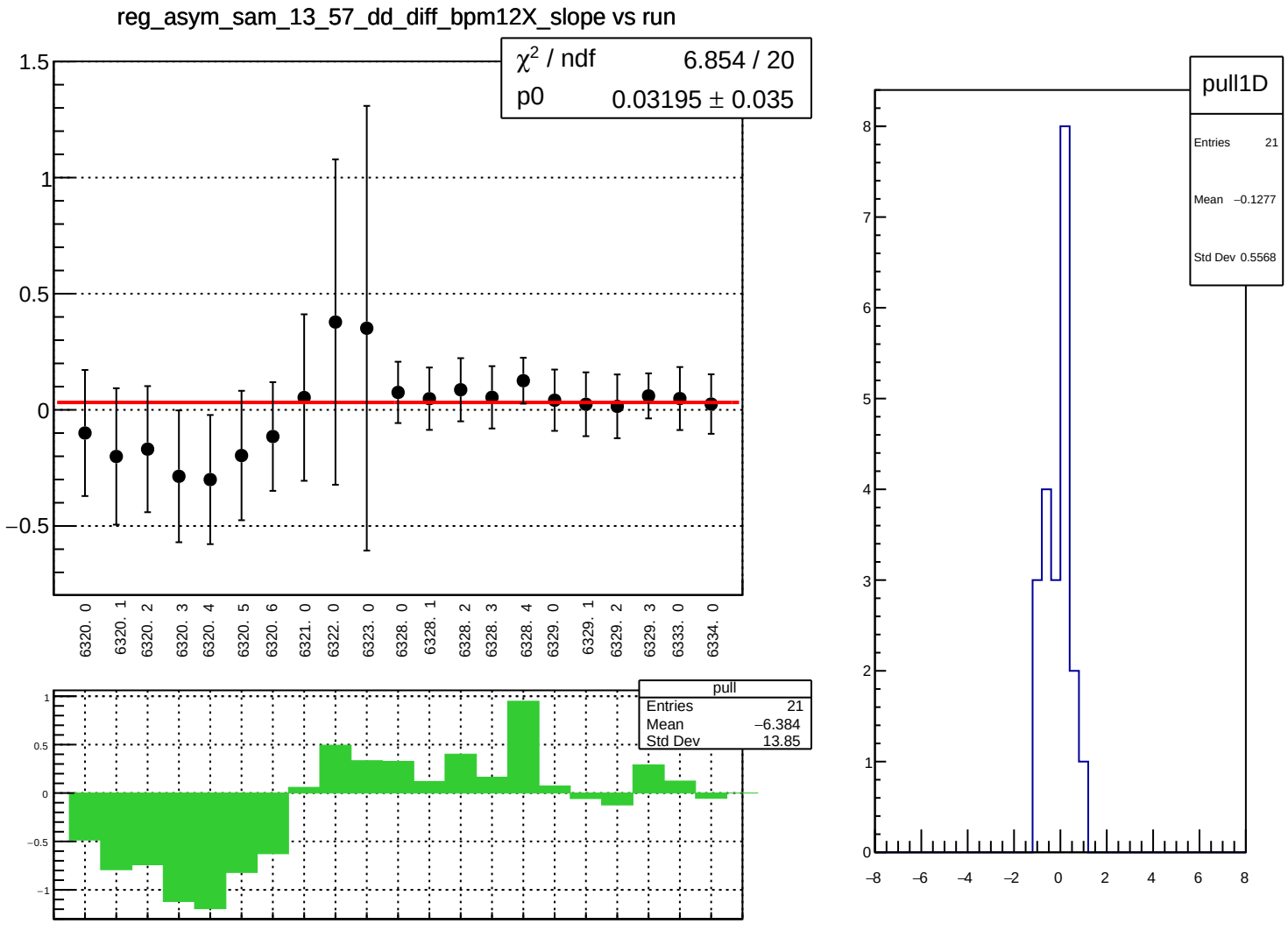

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.772 / 20
p0 −0.2875 ± 0.09777
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.9304
Std Dev 5.275
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.153
Std Dev 0.3952
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

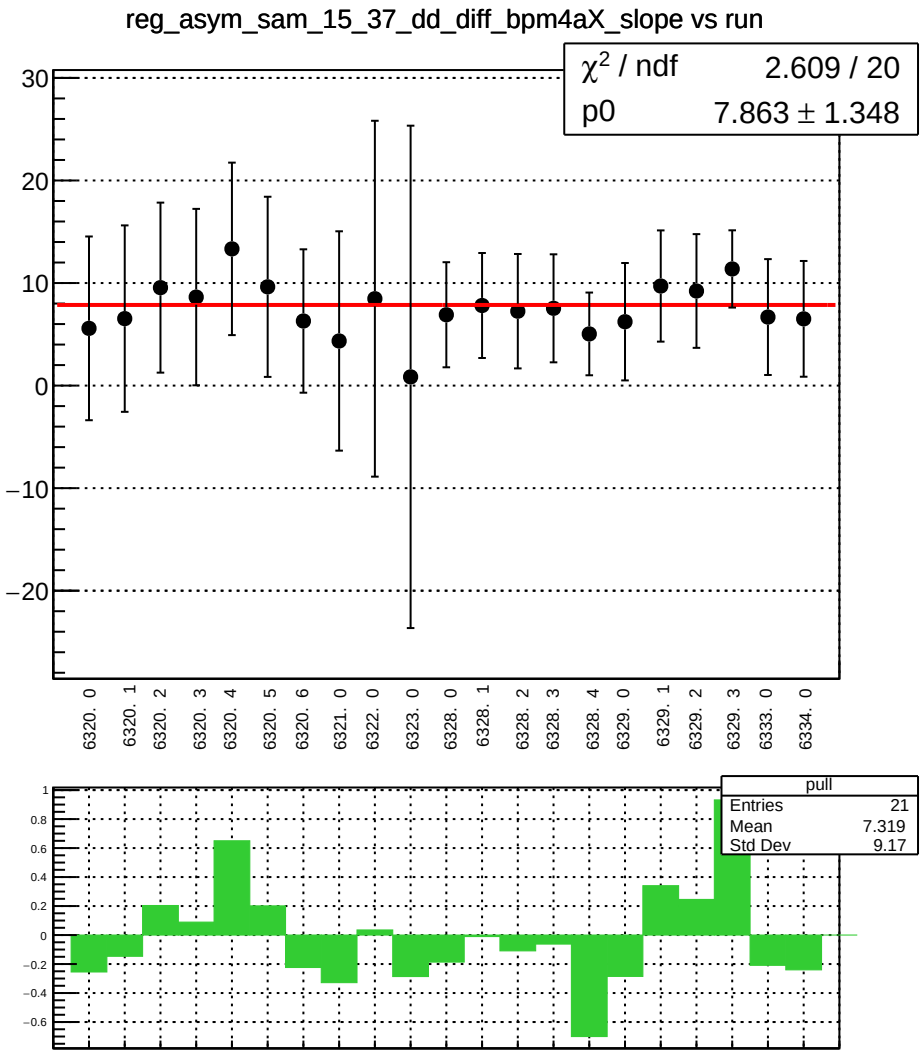

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.291 / 20
p0 −29.7 ± 1.29
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −38.71
Std Dev 48.07
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.06193
Std Dev 0.6623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

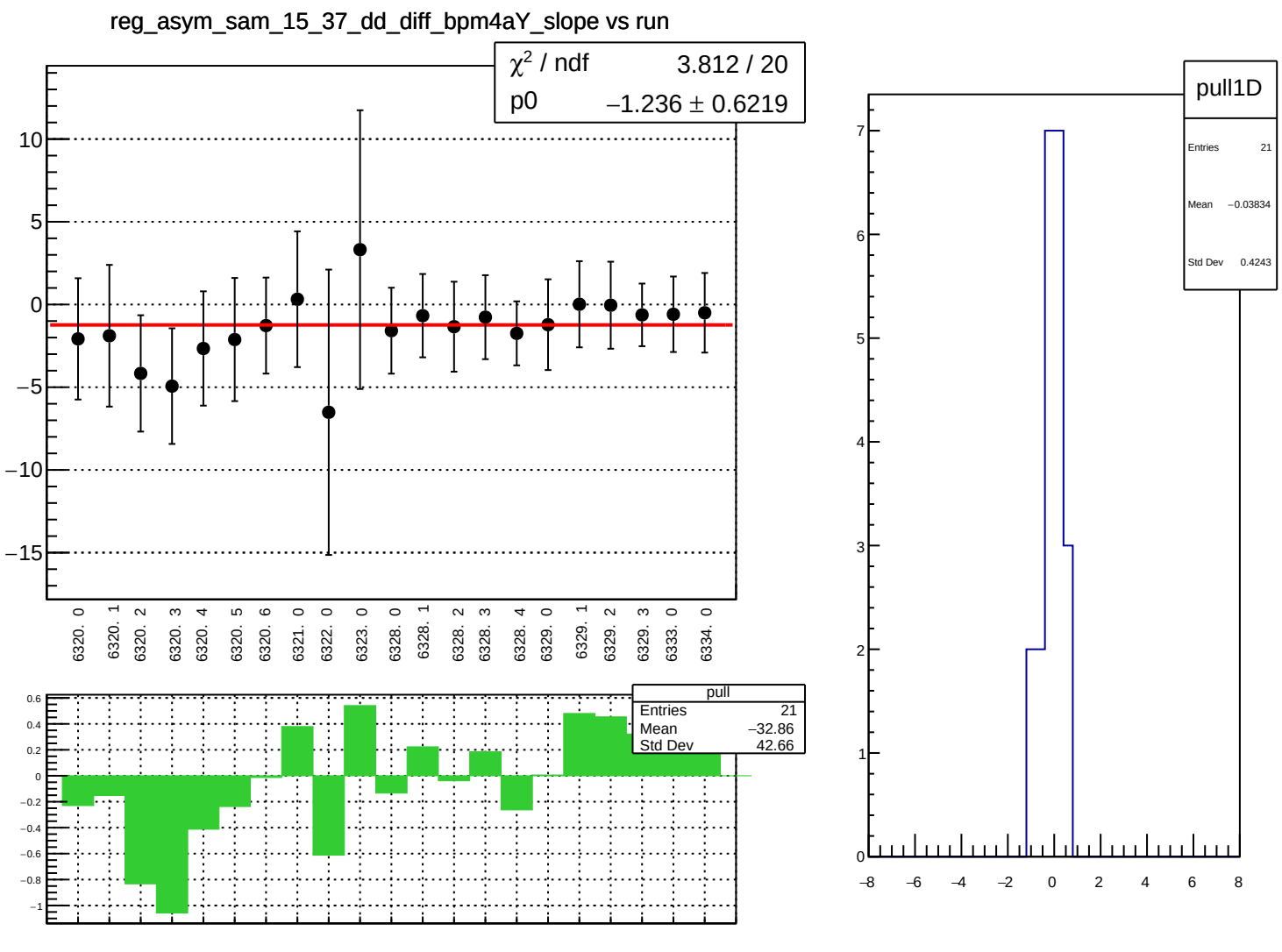

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.898 / 20
p0 −30.35 ± 0.5877
−20
−25
−30
−35
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.91
Std Dev 45.07
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.02846
Std Dev 0.3704
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

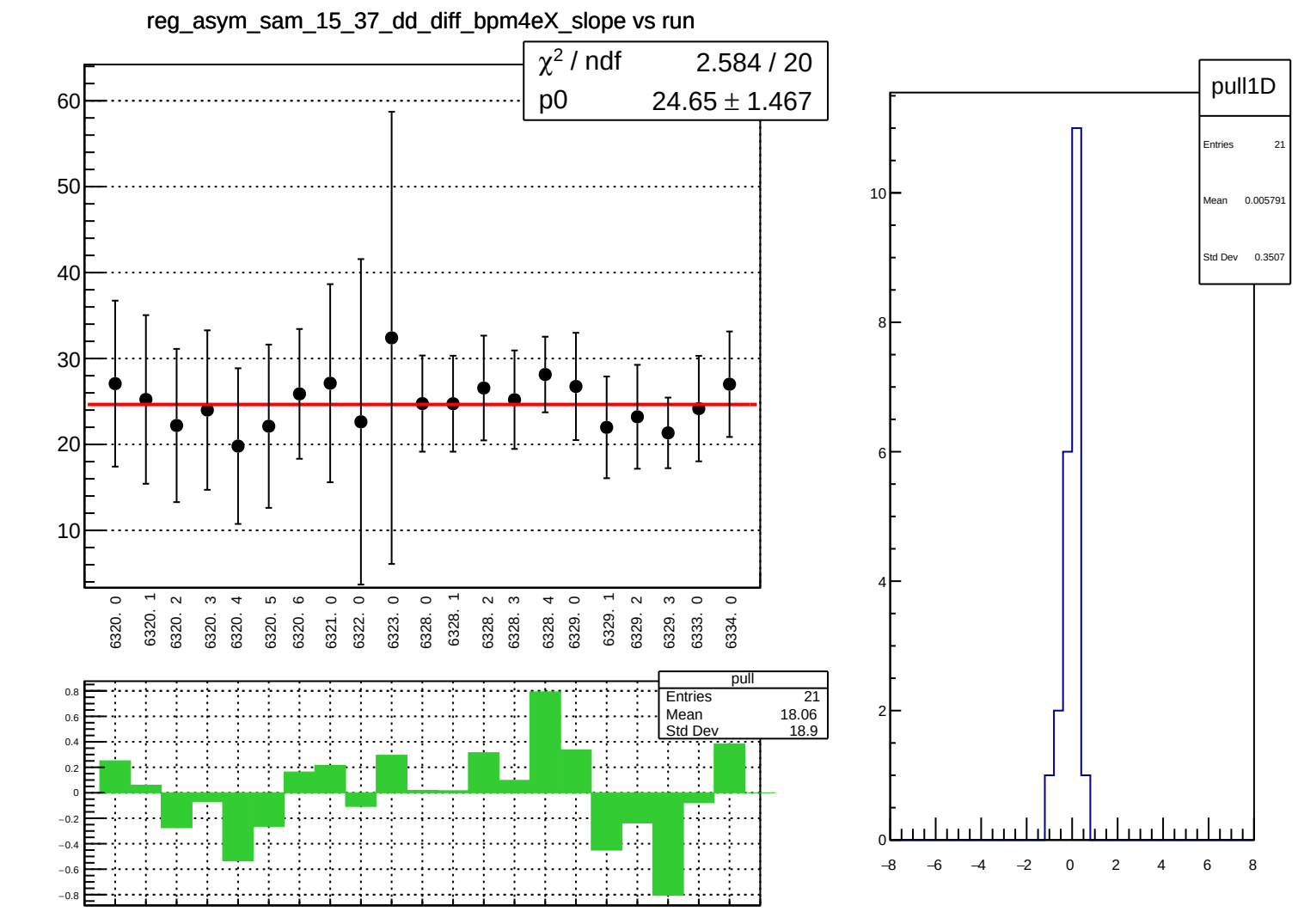

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.765 / 20
p0 9.325 ± 1.402
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −35.78
Std Dev 45.1
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.06921
Std Dev 0.6784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

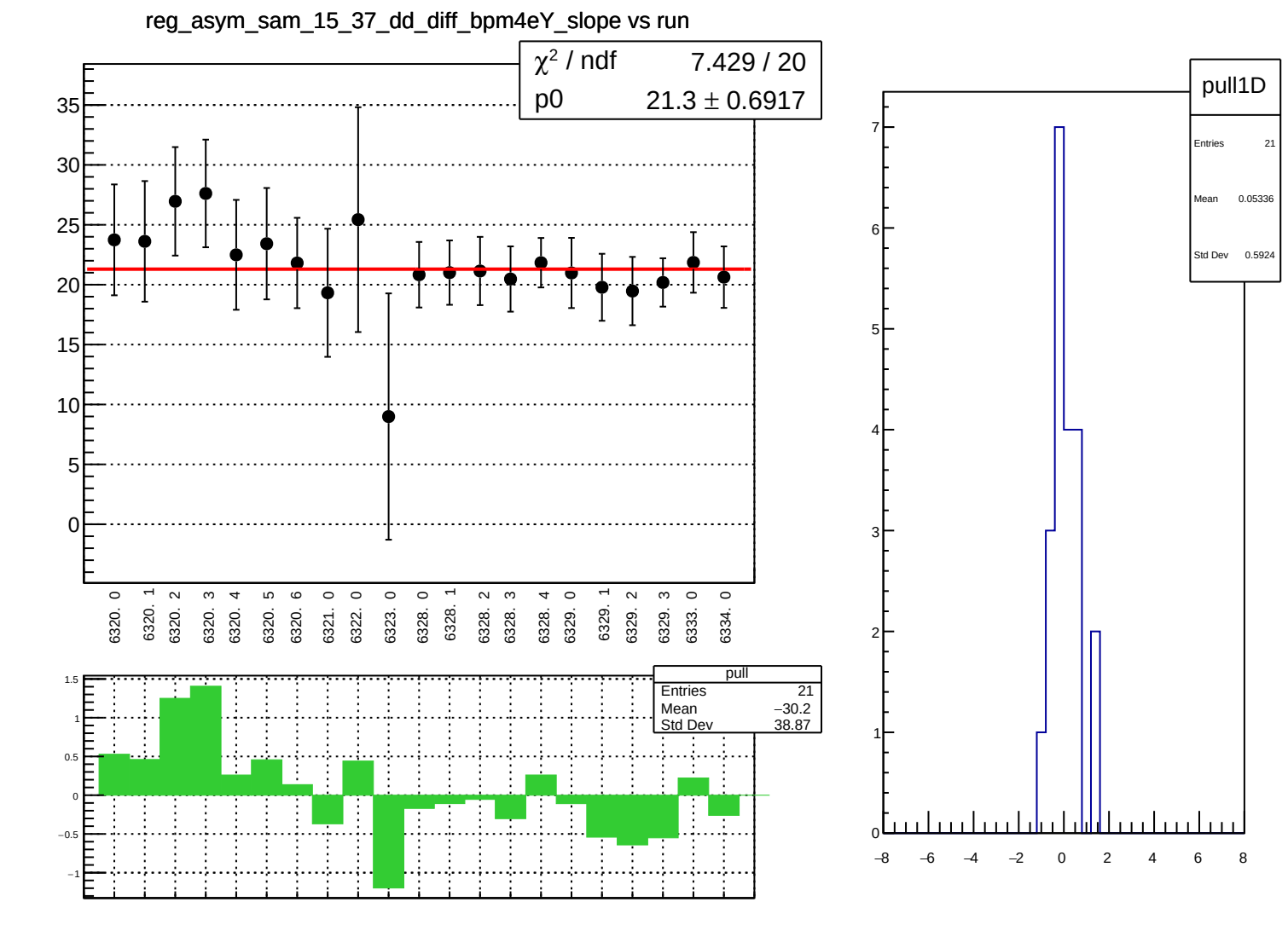

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.481 / 20
p0 −8.035 ± 0.6647
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −19.88
Std Dev 27.74
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.04275
Std Dev 0.4049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

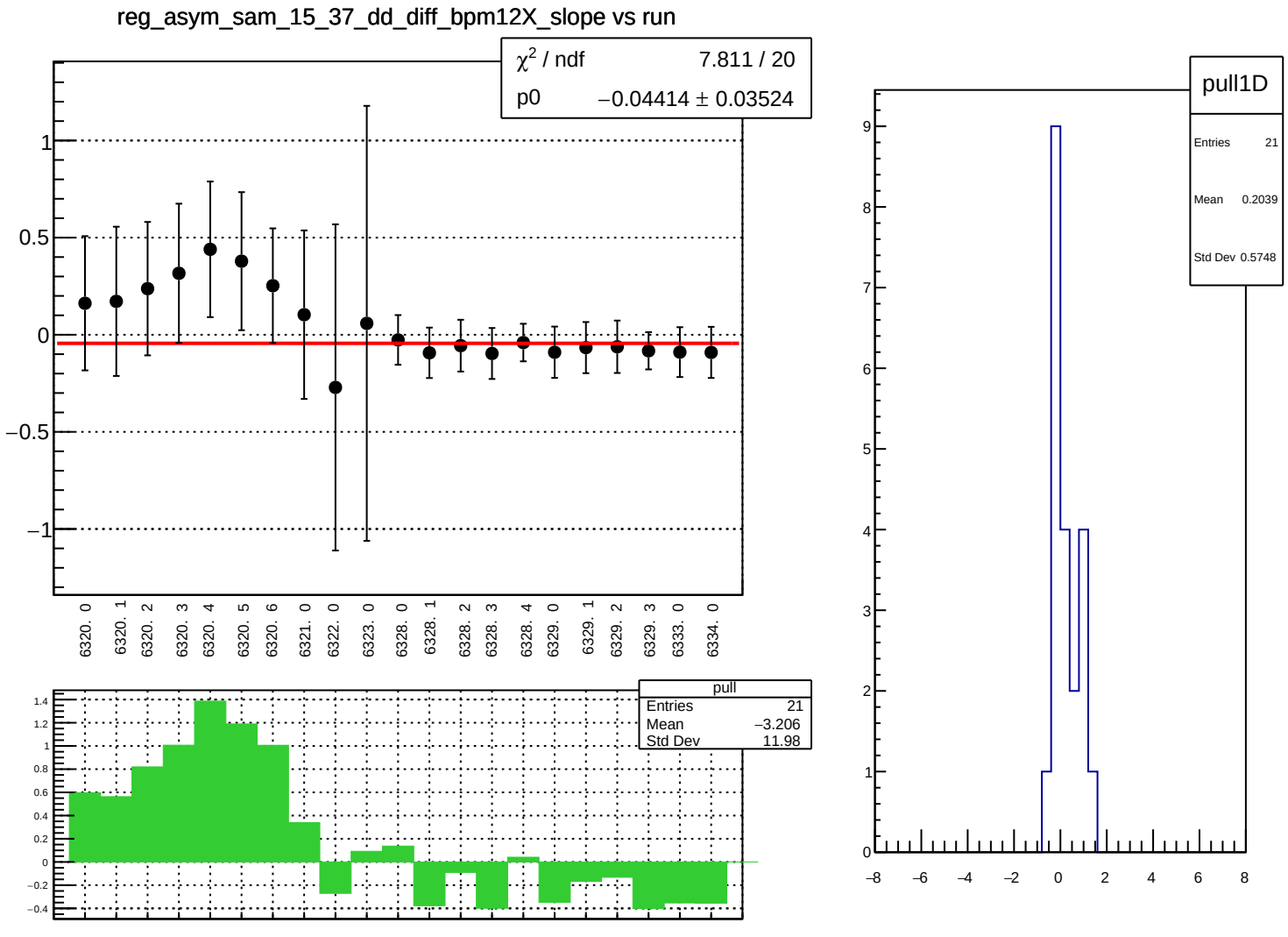

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 6.854 / 20
p0 0.03195 ± 0.035
1.5
1
0.5
0
−0.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.384
Std Dev 13.85
pull1D
Entries 21
Mean −0.1277
Std Dev 0.5568

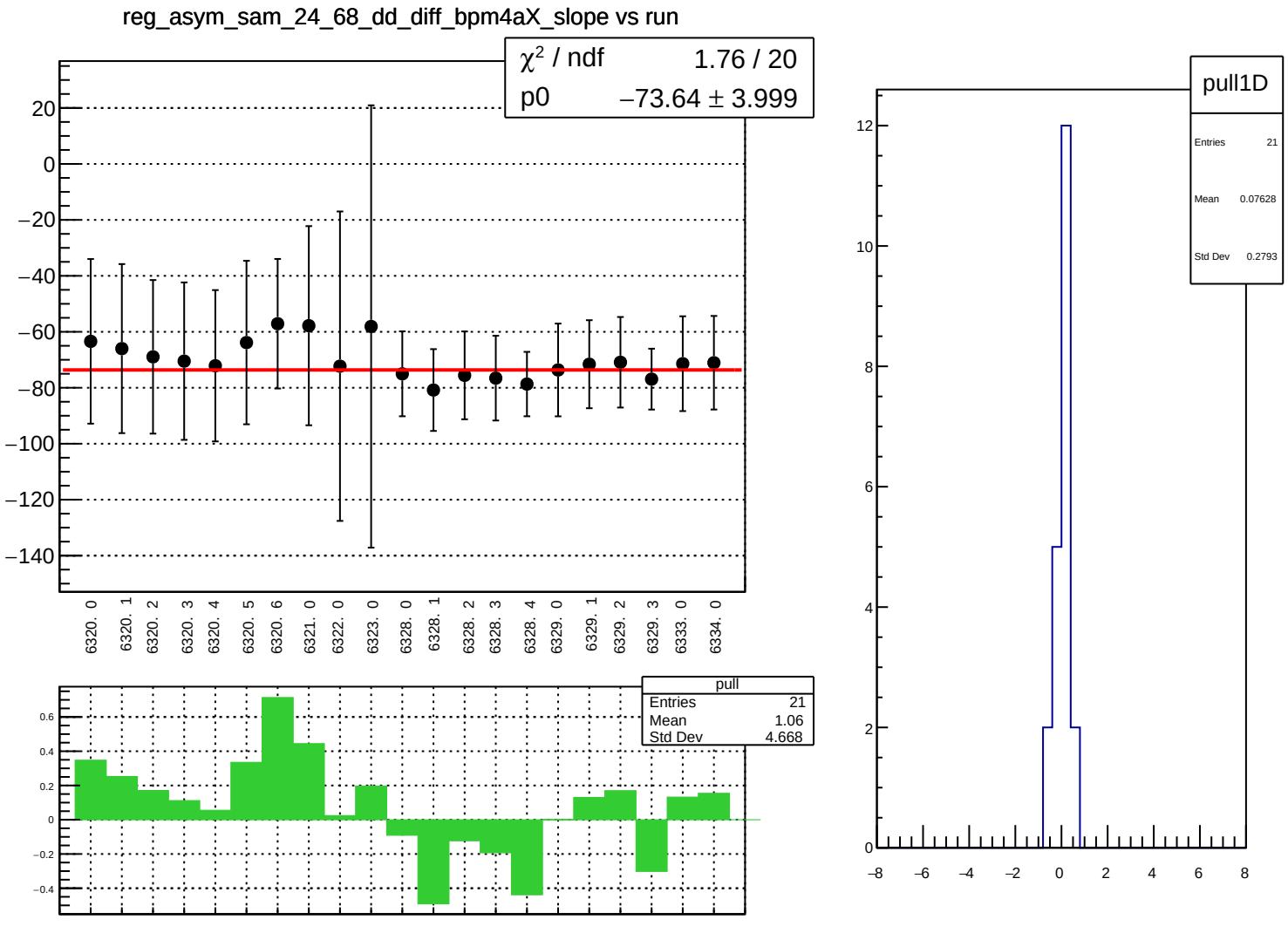

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.609 / 20
p0 7.863 ± 1.348
30
20
10
0
−10
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 7.319
Std Dev 9.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.01642
Std Dev 0.3521
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

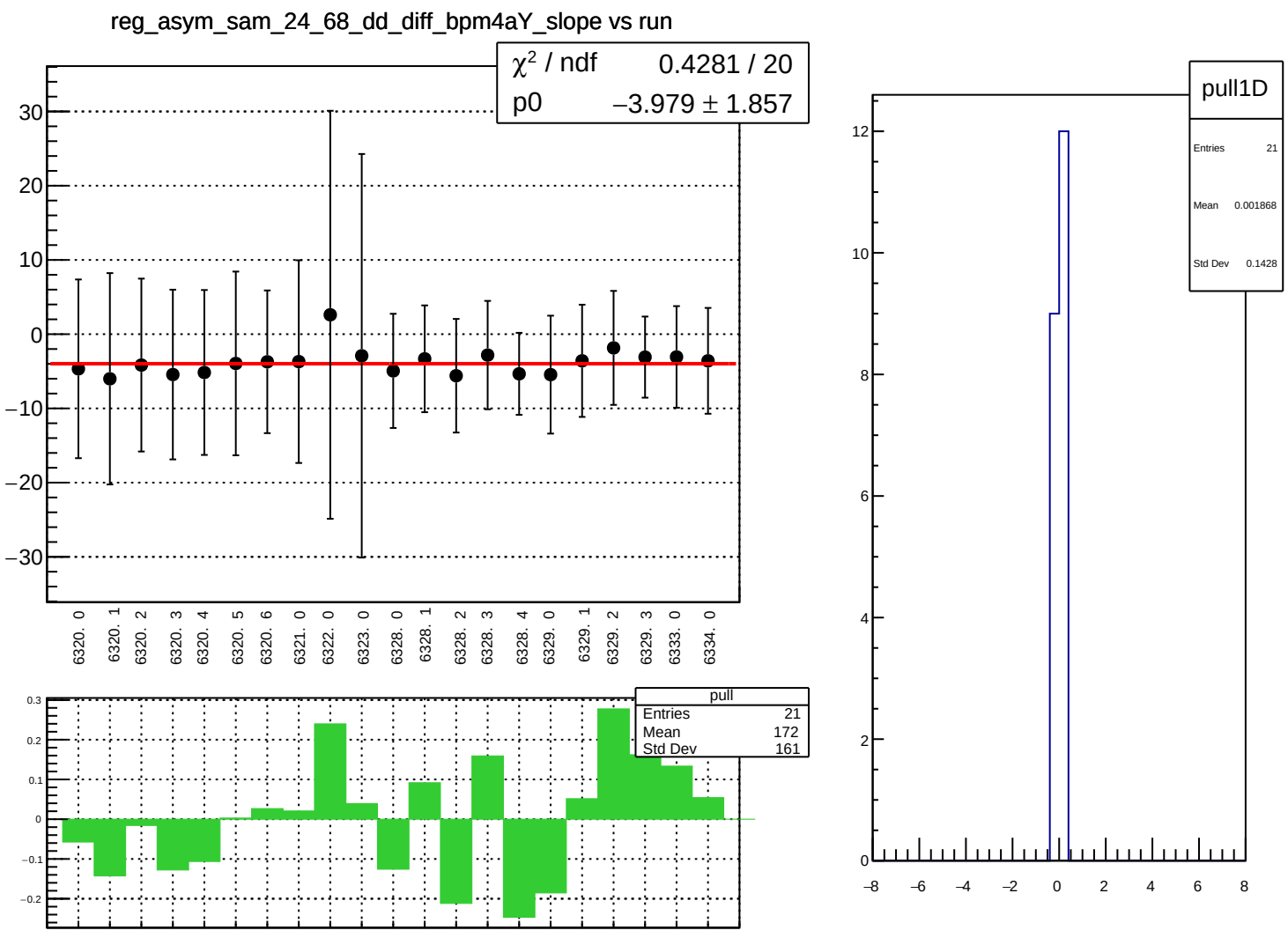

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.812 / 20
p0 −1.236 ± 0.6219
10
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −32.86
Std Dev 42.66
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 21
Mean −0.03834
Std Dev 0.4243
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

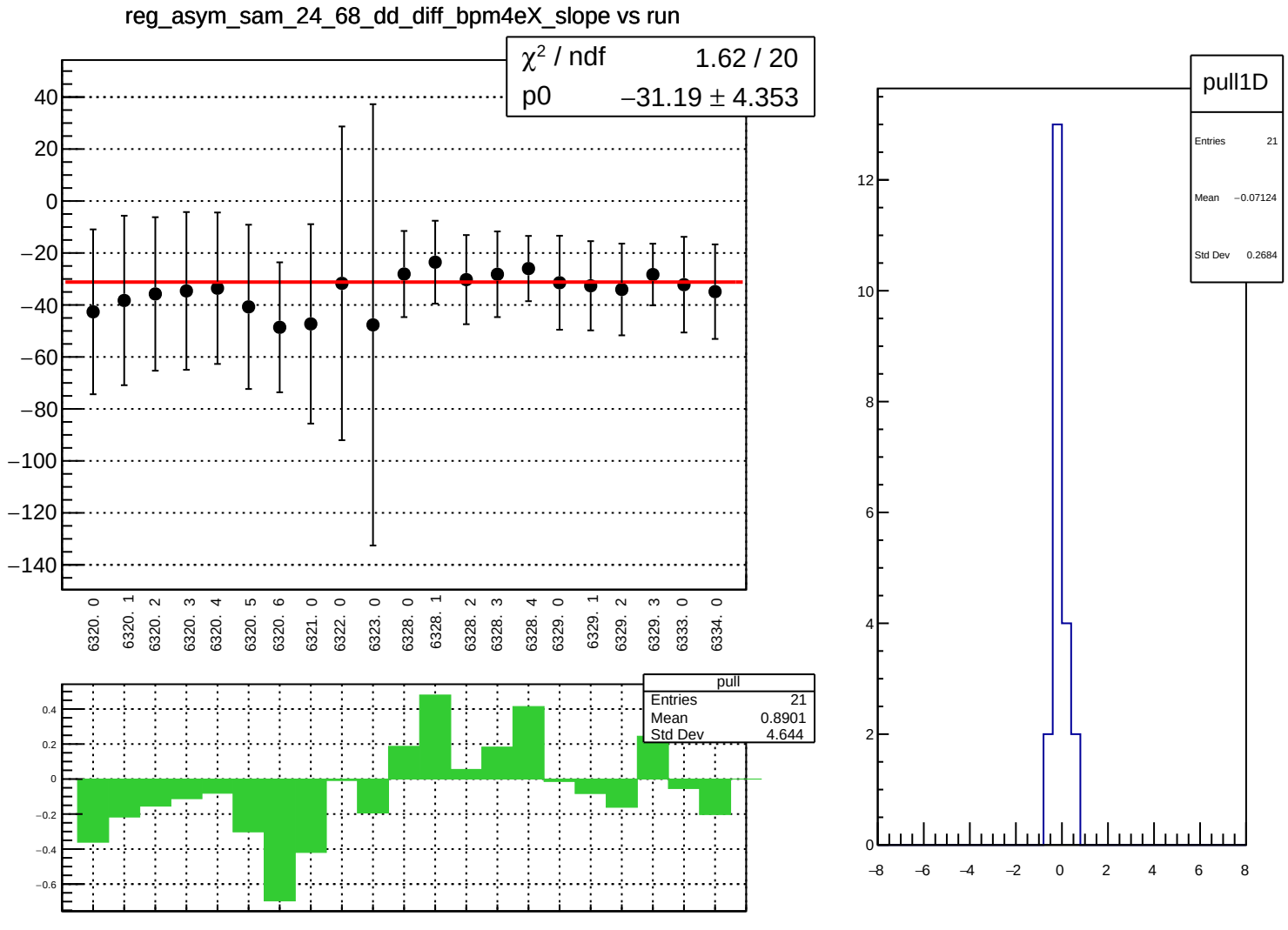

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.584 / 20
p0 24.65 ± 1.467
60
50
40
30
20
10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 18.06
Std Dev 18.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.005791
Std Dev 0.3507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

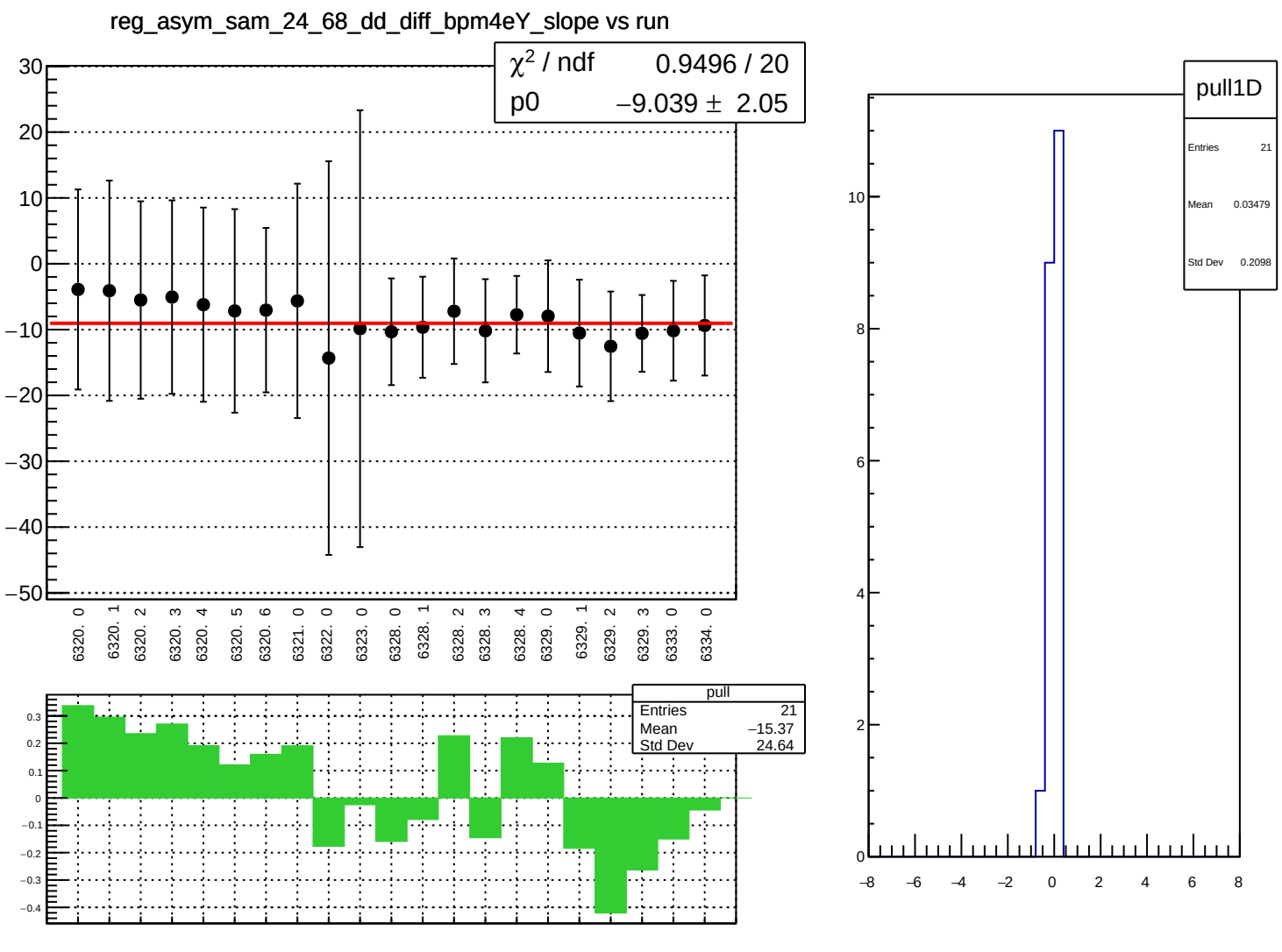

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.429 / 20
p0 21.3 ± 0.6917
35
30
25
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −30.2
Std Dev 38.87
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.05336
Std Dev 0.5924
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

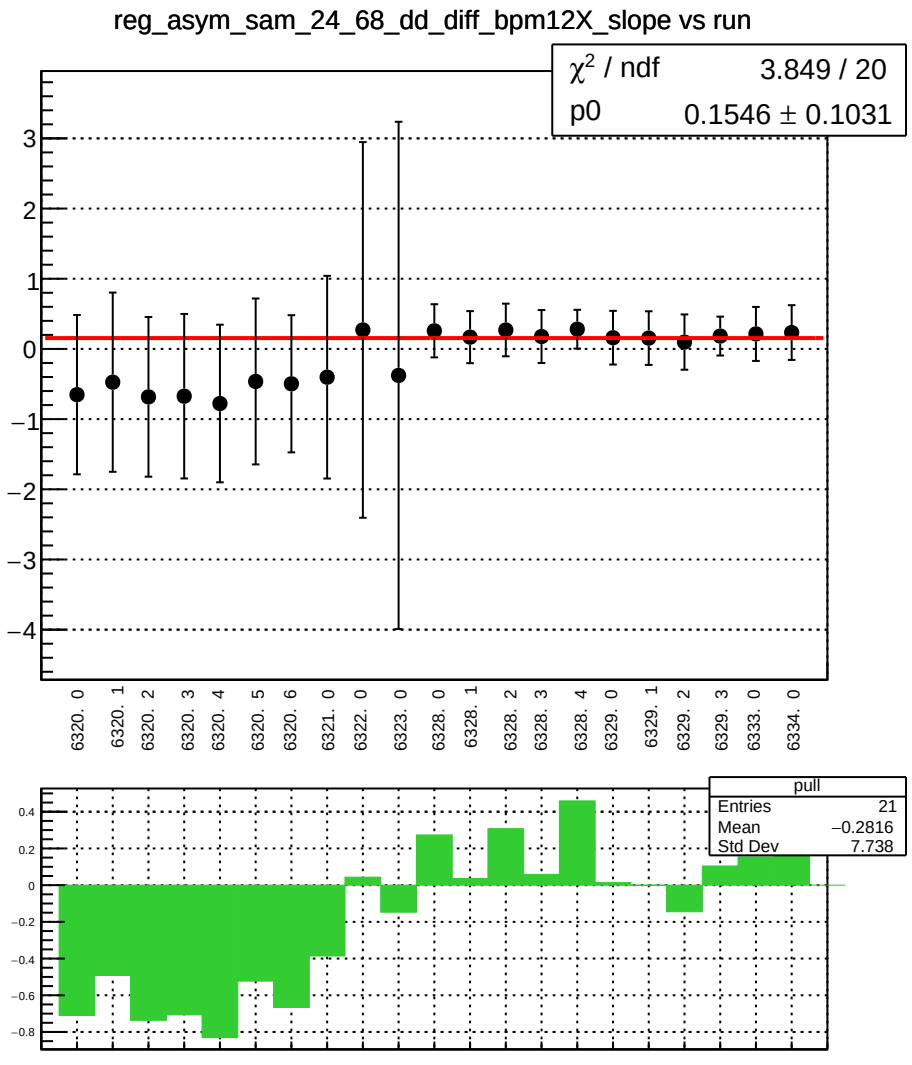

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.811 / 20
p0 −0.04414 ± 0.03524
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.206
Std Dev 11.98
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.2039
Std Dev 0.5748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

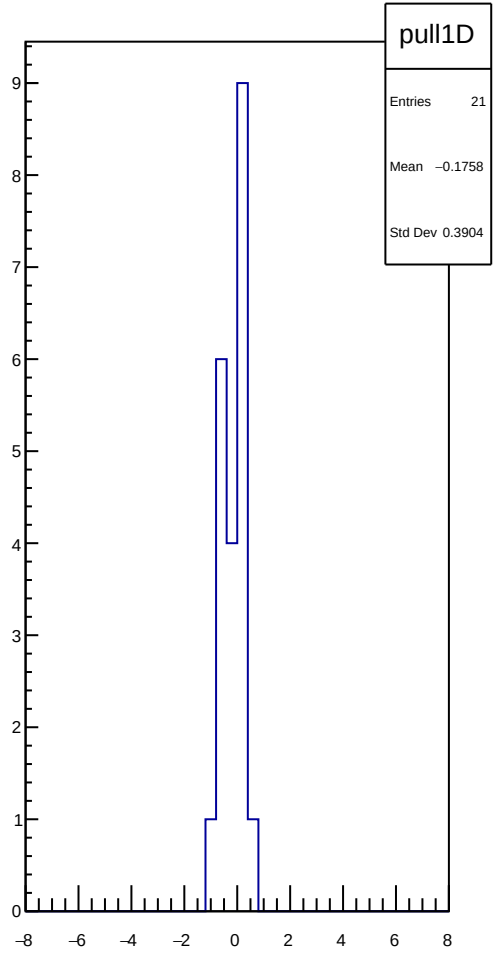

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.76 / 20
p0 −73.64 ± 3.999
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1.06
Std Dev 4.668
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.07628
Std Dev 0.2793
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

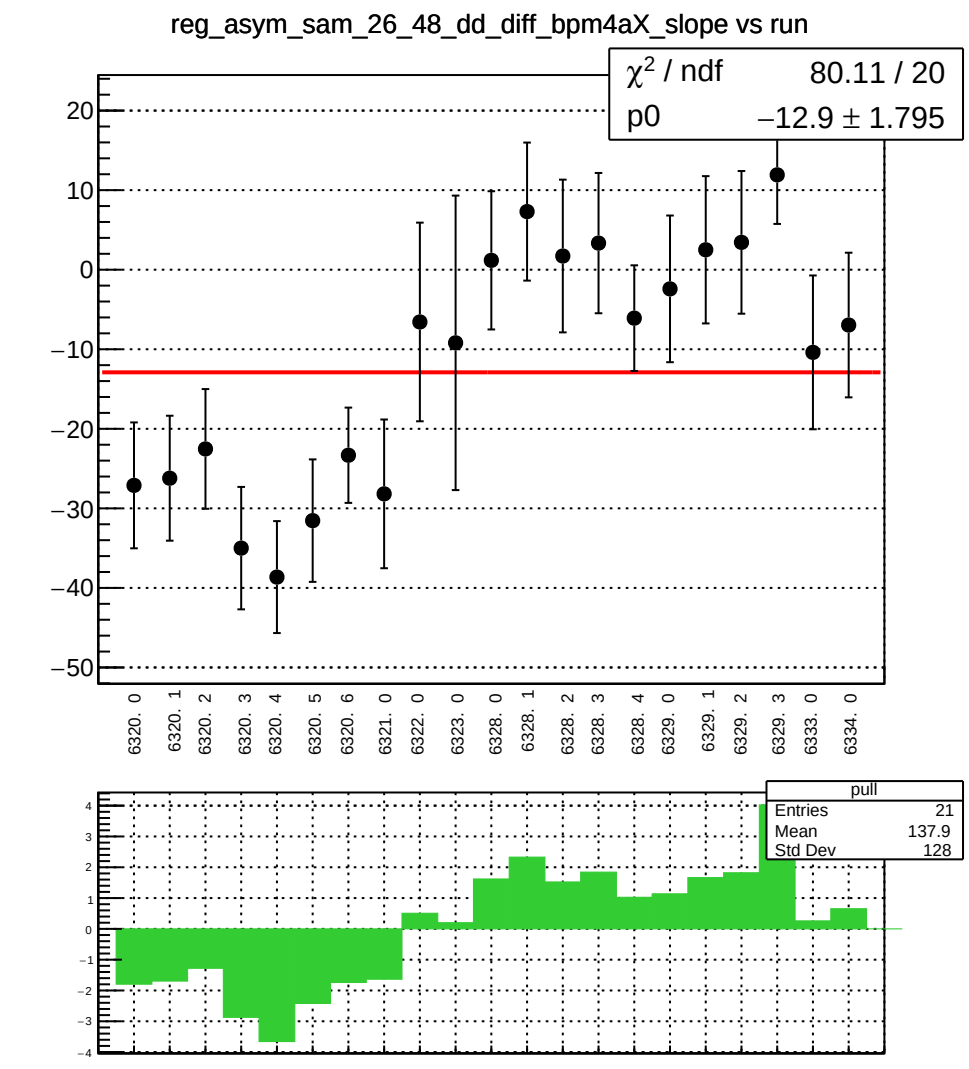

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4281 / 20
p0 −3.979 ± 1.857
30
20
10
0
−10
−20
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 172
Std Dev 161
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 21
Mean 0.001868
Std Dev 0.1428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

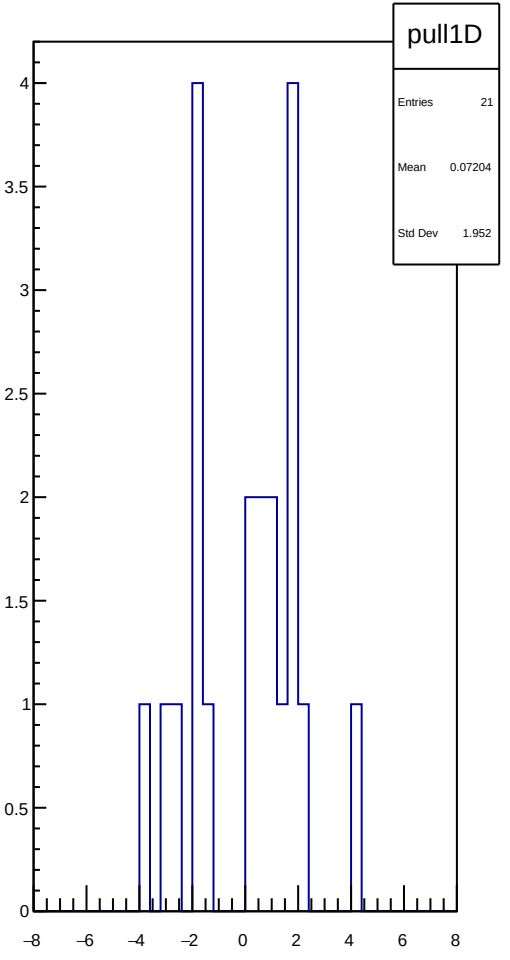

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.62 / 20
p0 −31.19 ± 4.353
40
20
0
−20
−40
−60
−80
−100
−120
−140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.8901
Std Dev 4.644
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.07124
Std Dev 0.2684
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

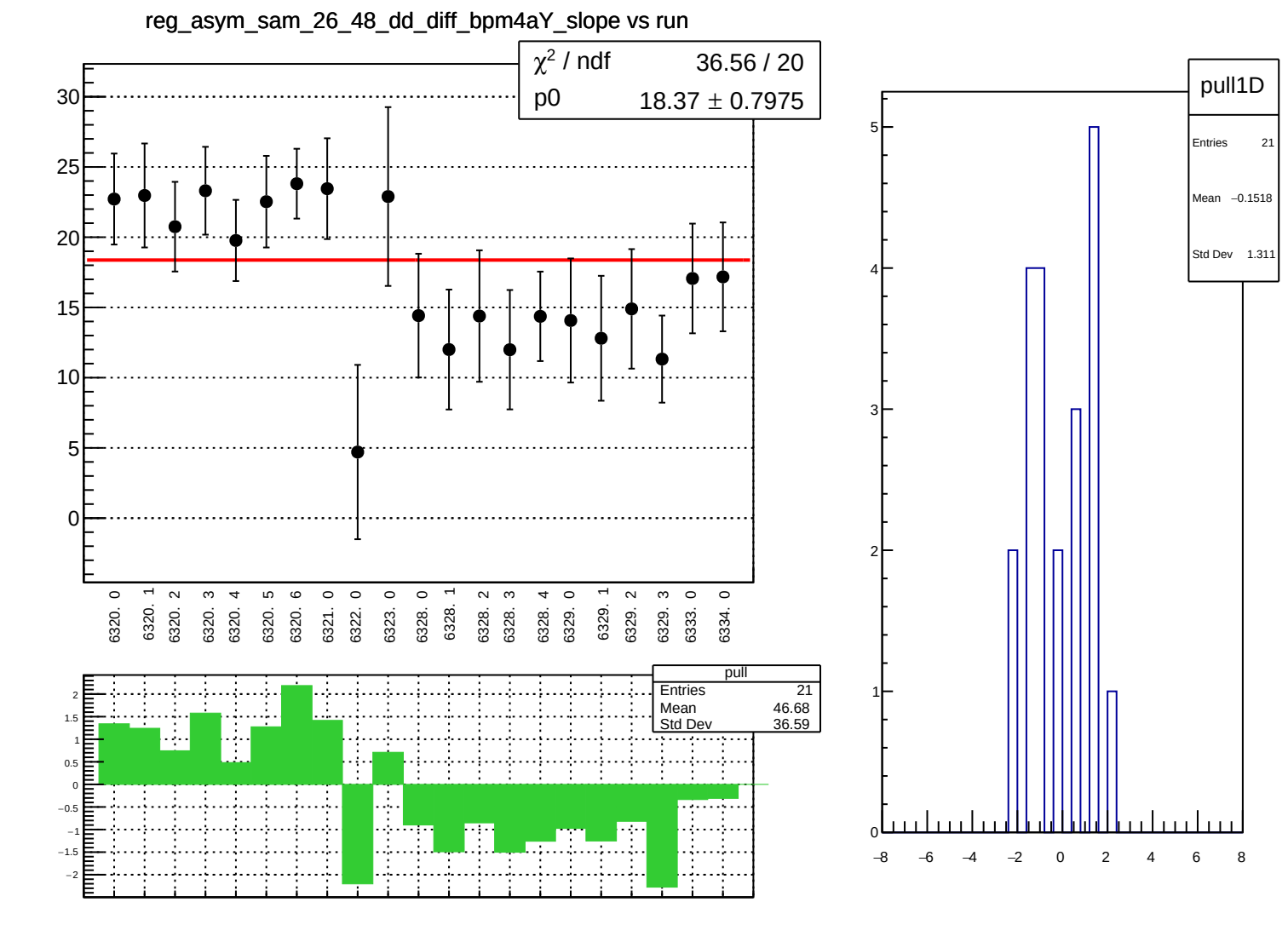

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9496 / 20
p0 −9.039 ± 2.05
30
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.37
Std Dev 24.64
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 21
Mean 0.03479
Std Dev 0.2098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

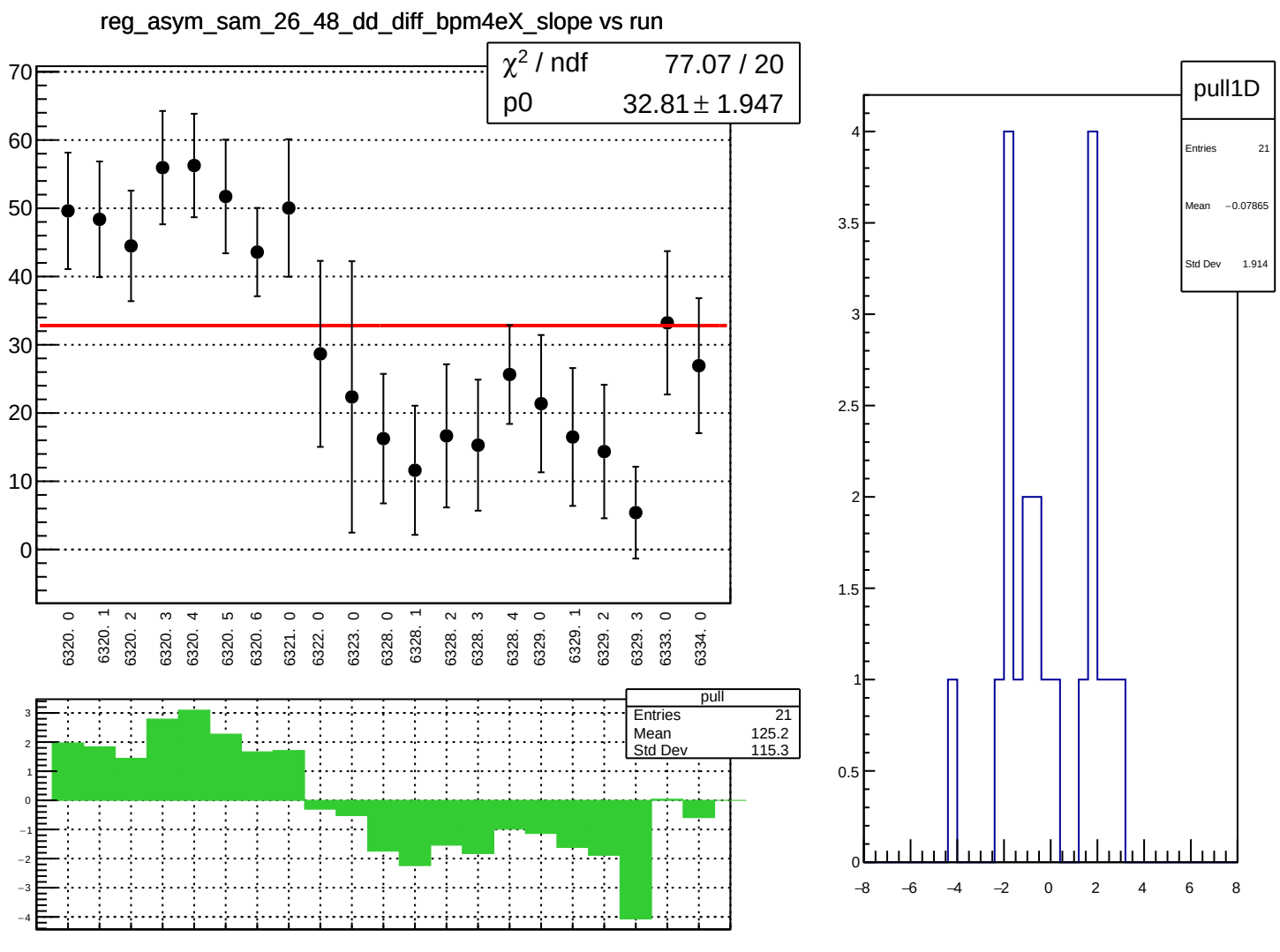

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.849 / 20
p0 0.1546 ± 0.1031
3
2
1
0
−1
−2
−3
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2816
Std Dev 7.738
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

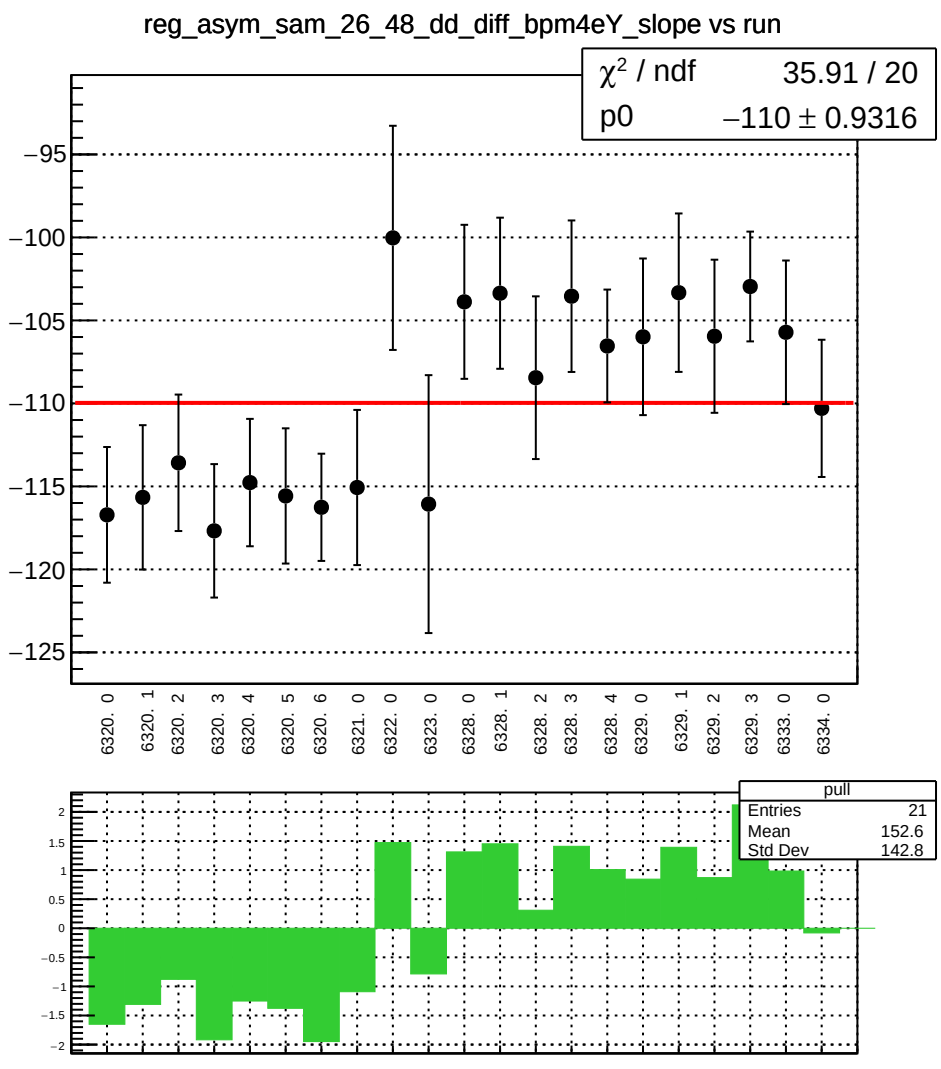

pull1D
Entries 21
Mean −0.1758
Std Dev 0.3904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

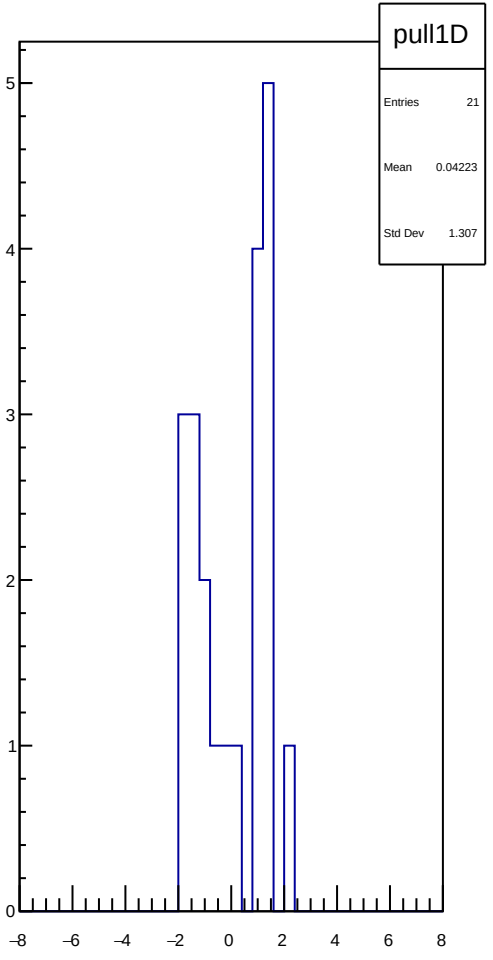

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 80.11 / 20
p0 −12.9 ± 1.795
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 137.9
Std Dev 128
4
3
2
1
0
−1
−2
−3
−4

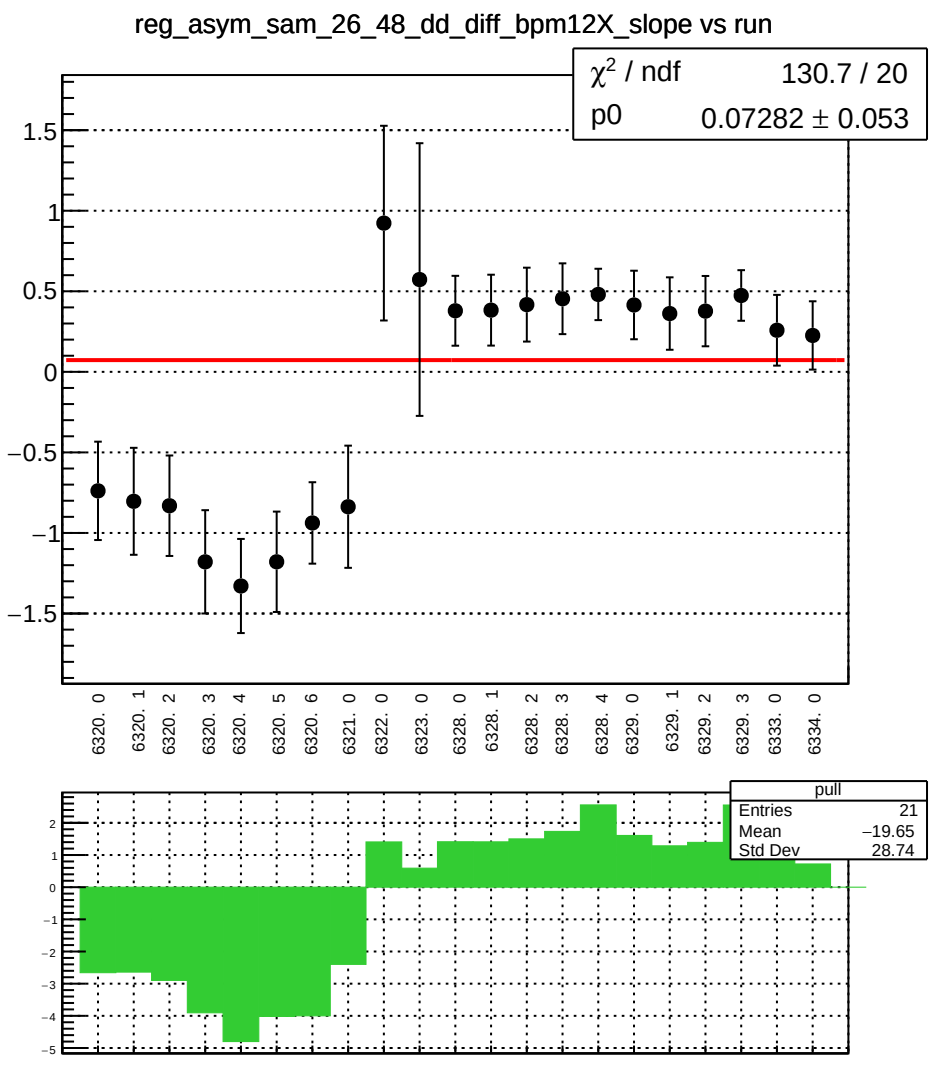

pull1D
Entries 21
Mean 0.07204
Std Dev 1.952
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

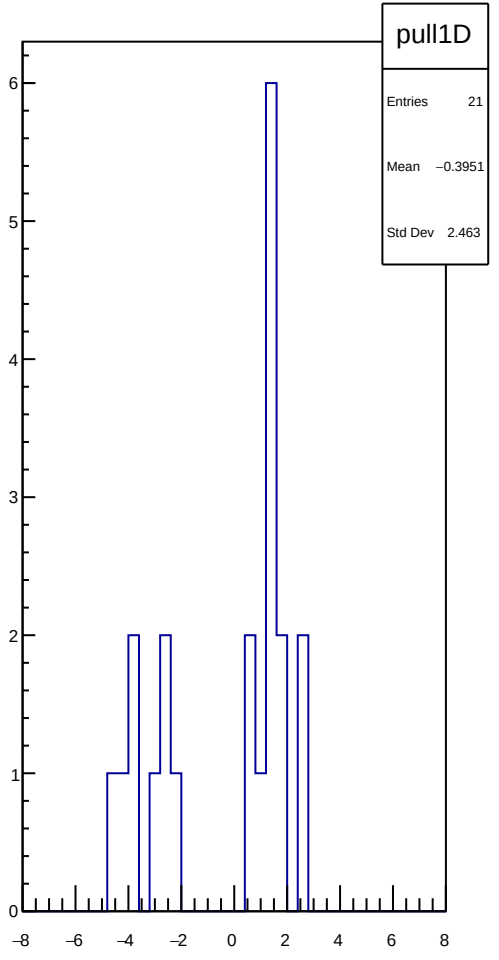

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.56 / 20
p0 18.37 ± 0.7975
30
25
20
15
10
5
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 46.68
Std Dev 36.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.1518
Std Dev 1.311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

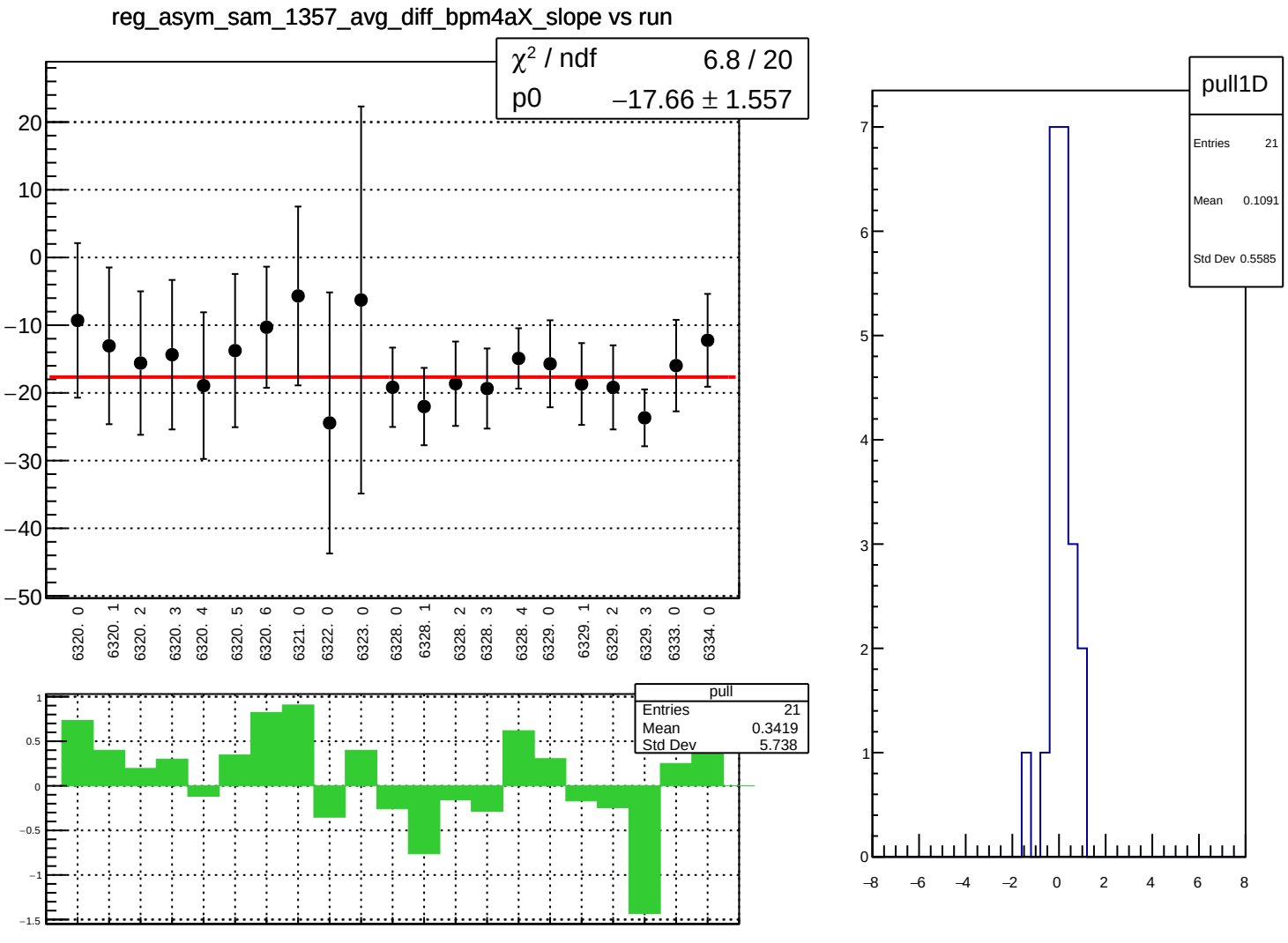

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.07 / 20
p0 32.81 ± 1.947
70
60
50
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 125.2
Std Dev 115.3
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.07865
Std Dev 1.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

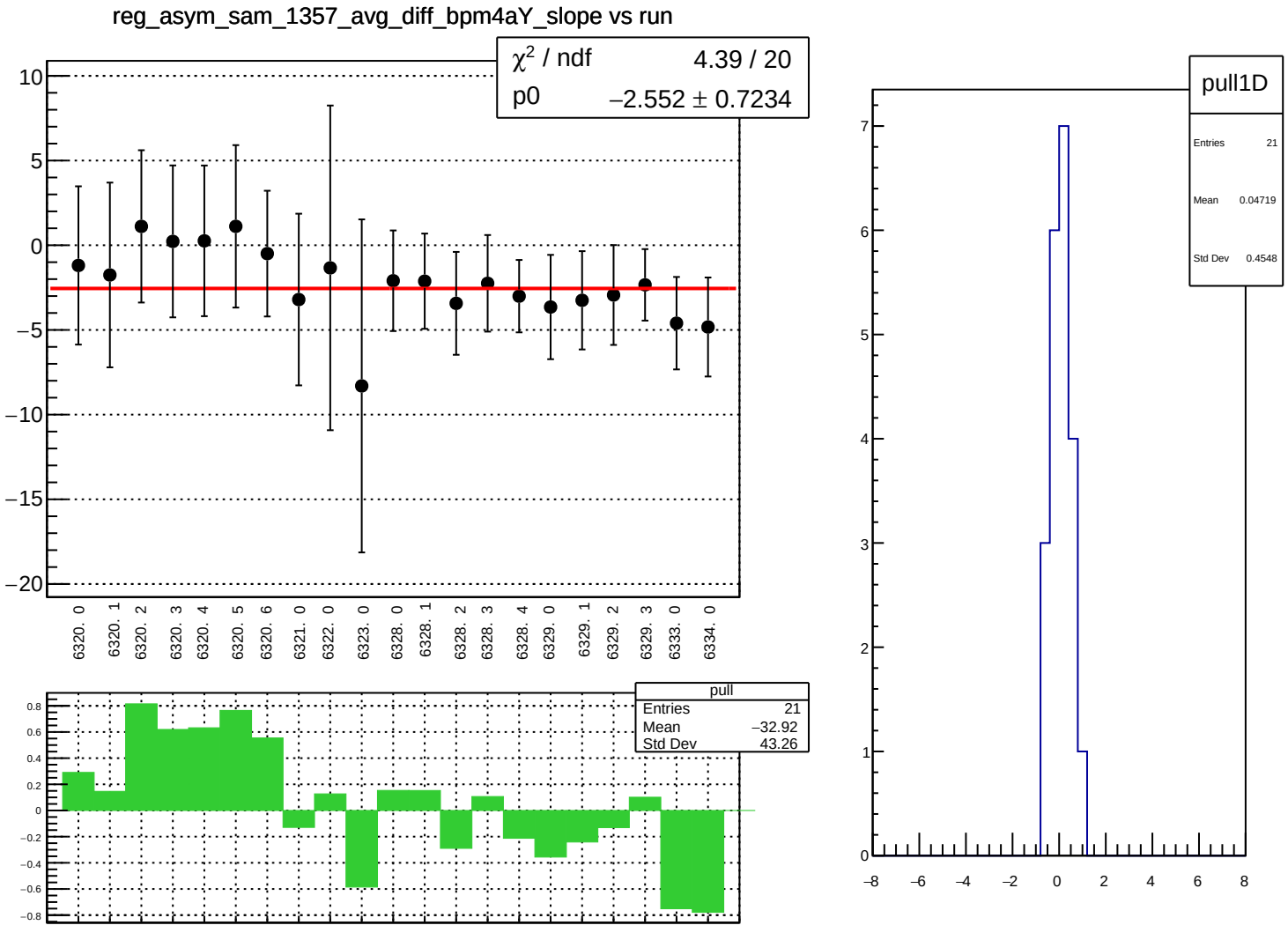

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.91 / 20
p0 −110 ± 0.9316
−95
−100
−105
−110
−115
−120
−125
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 152.6
Std Dev 142.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

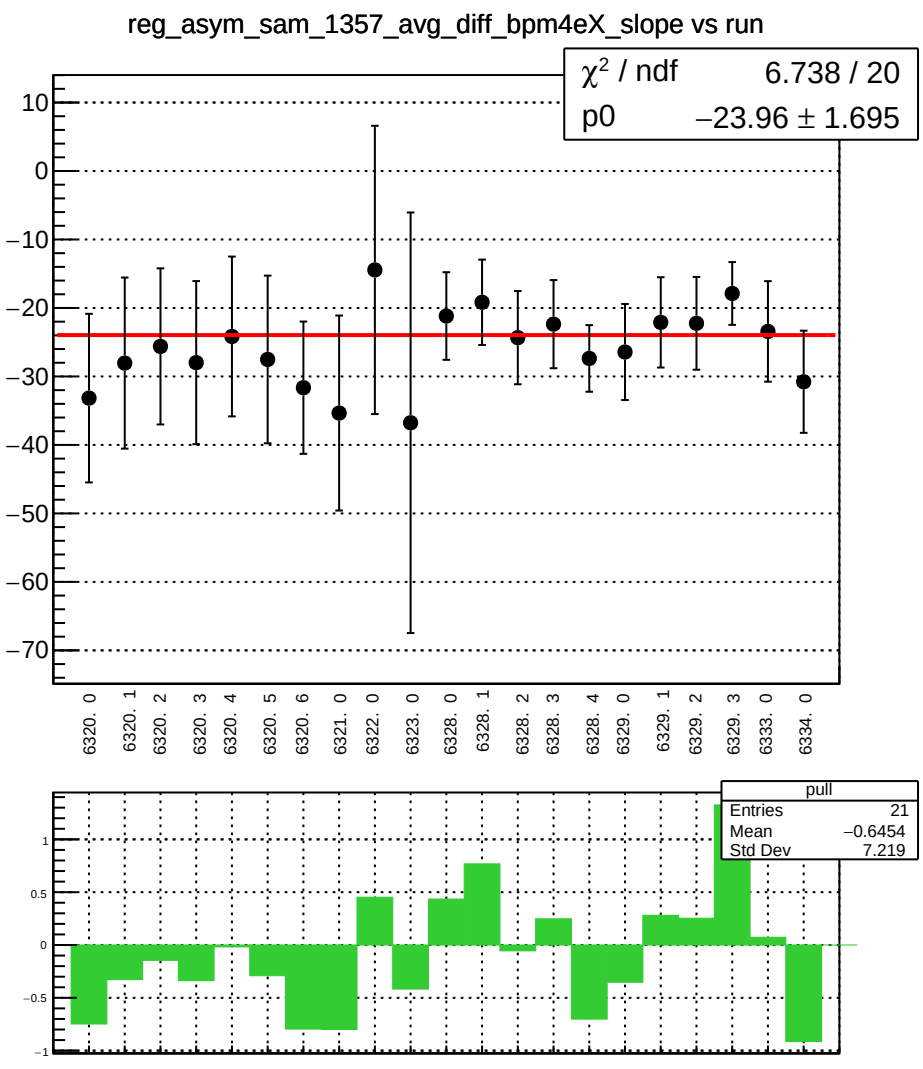

pull1D
Entries 21
Mean 0.04223
Std Dev 1.307
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

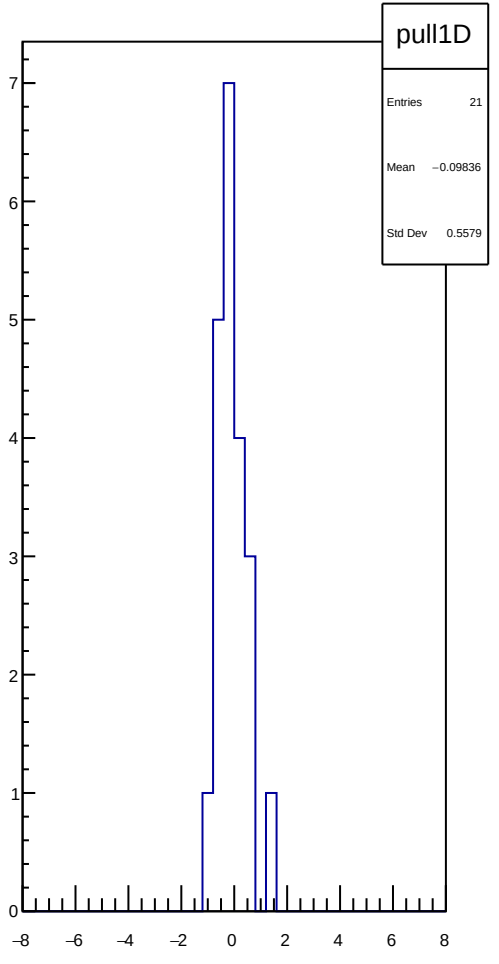

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 130.7 / 20
p0 0.07282 ± 0.053
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −19.65
Std Dev 28.74
2
1
0
−1
−2
−3
−4
−5

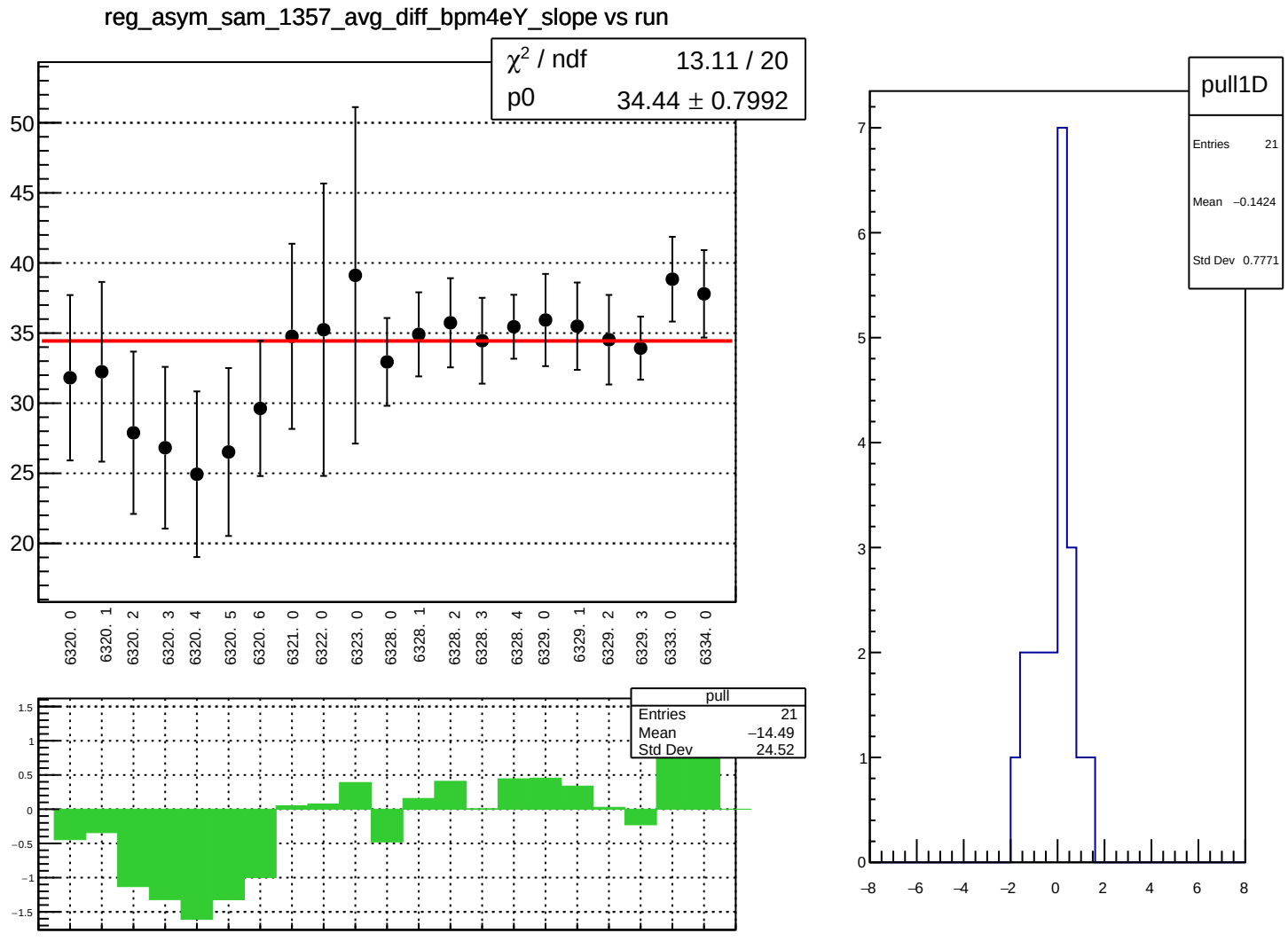

pull1D
Entries 21
Mean −0.3951
Std Dev 2.463
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

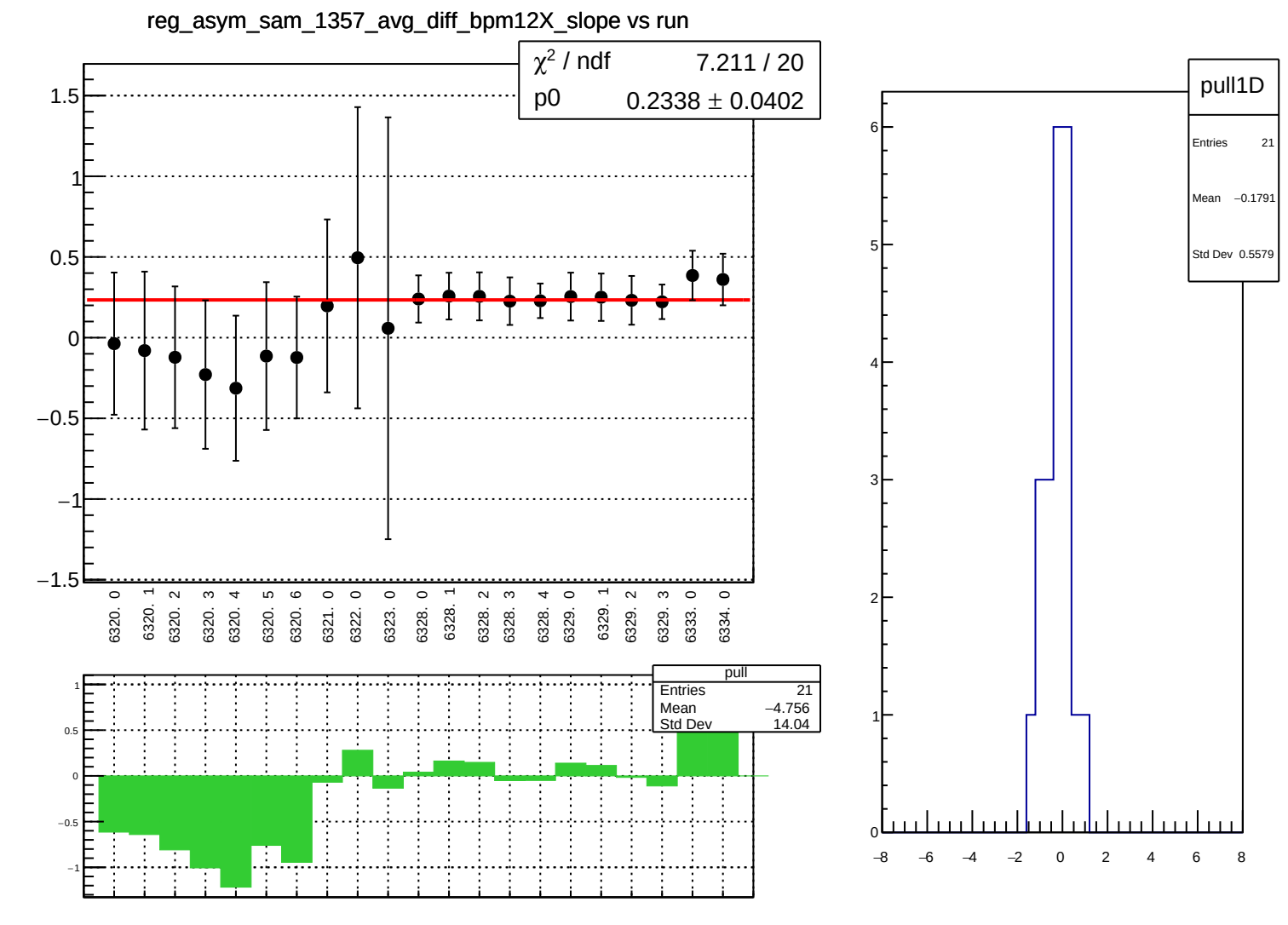

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.8 / 20
p0 −17.66 ± 1.557
20
10
0
−10
−20
−30
−40
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.3419
Std Dev 5.738
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1091
Std Dev 0.5585
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

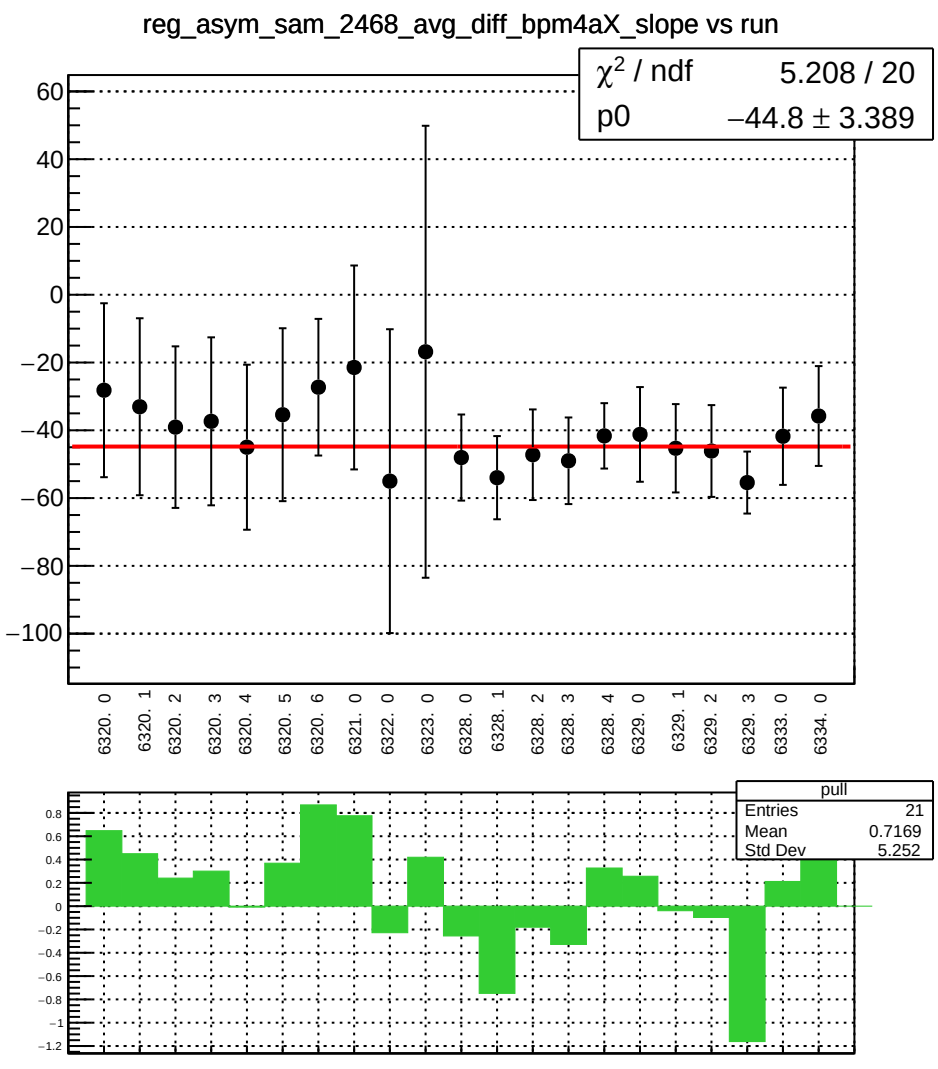

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.39 / 20
p0 −2.552 ± 0.7234
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −32.92
Std Dev 43.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.04719
Std Dev 0.4548
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

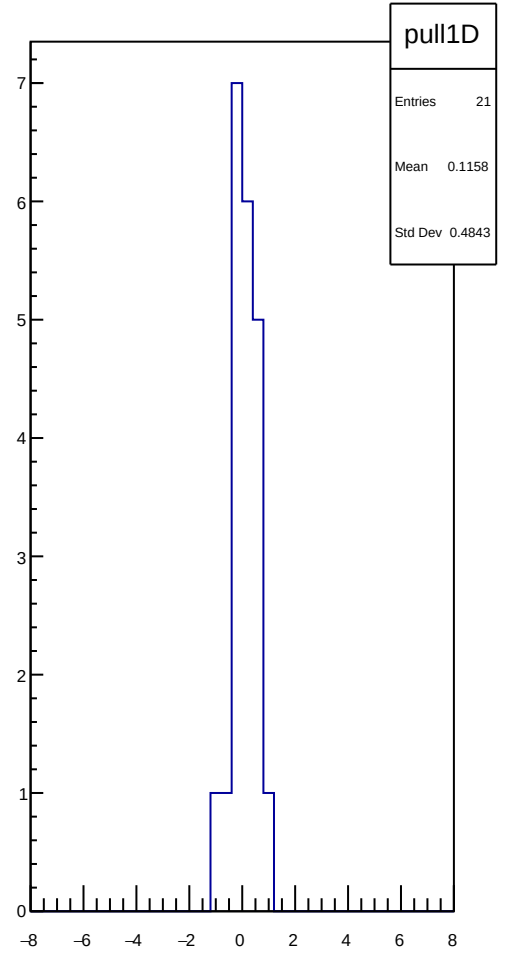

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.738 / 20
p0 −23.96 ± 1.695
10
0
−10
−20
−30
−40
−50
−60
−70
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.6454
Std Dev 7.219
1
0.5
0
−0.5
−1

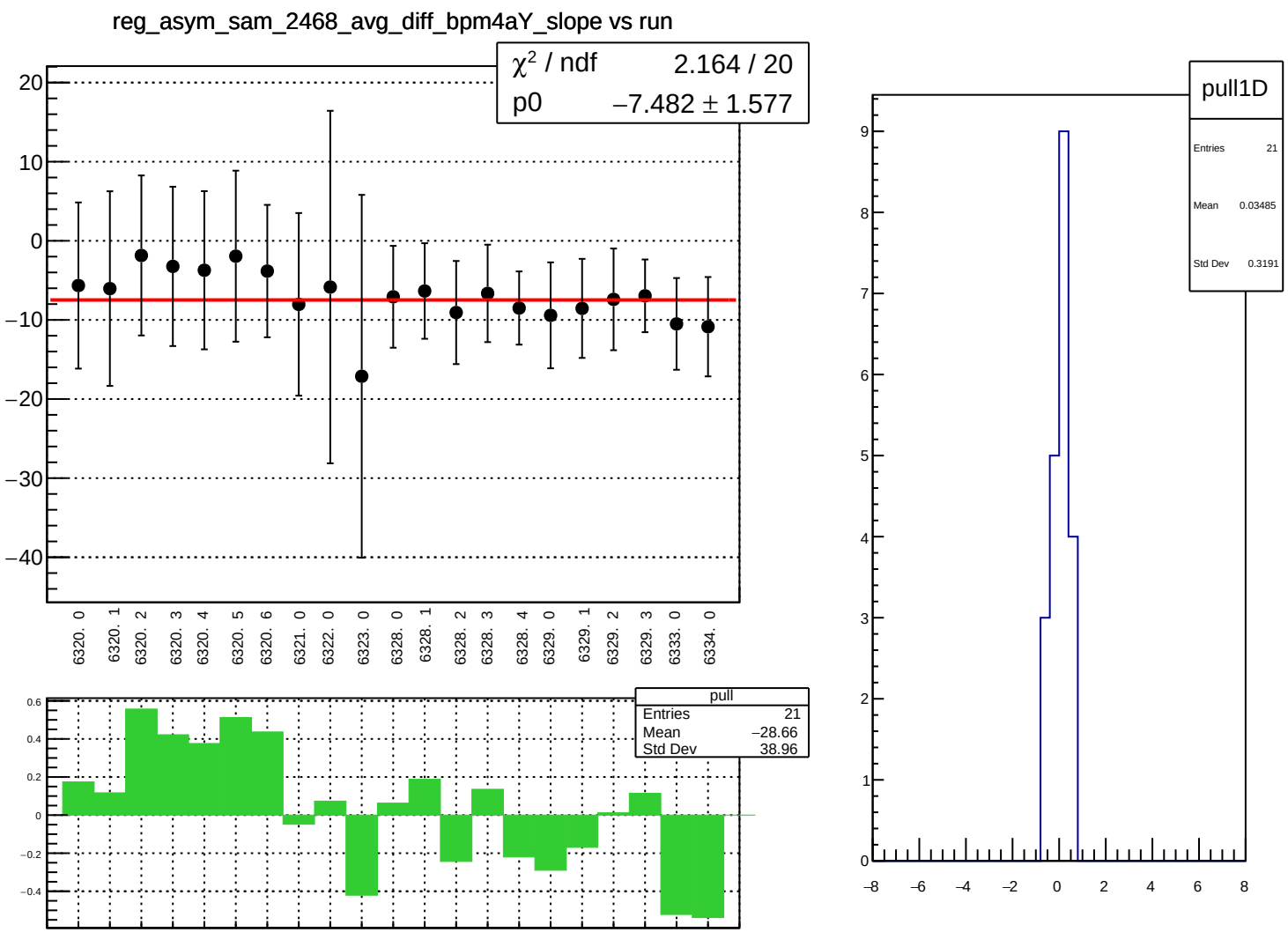

pull1D
Entries 21
Mean −0.09836
Std Dev 0.5579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

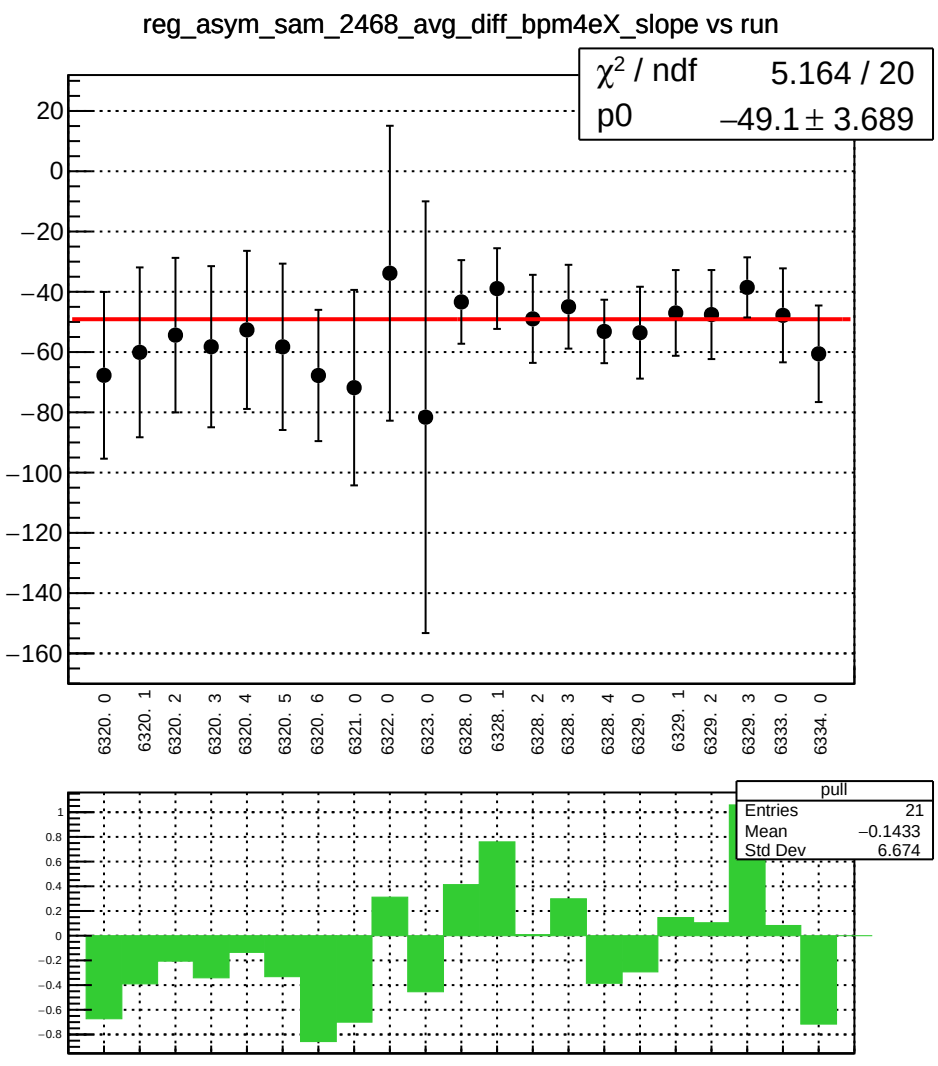

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.11 / 20
p0 34.44 ± 0.7992
50
45
40
35
30
25
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.49
Std Dev 24.52
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.1424
Std Dev 0.7771
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

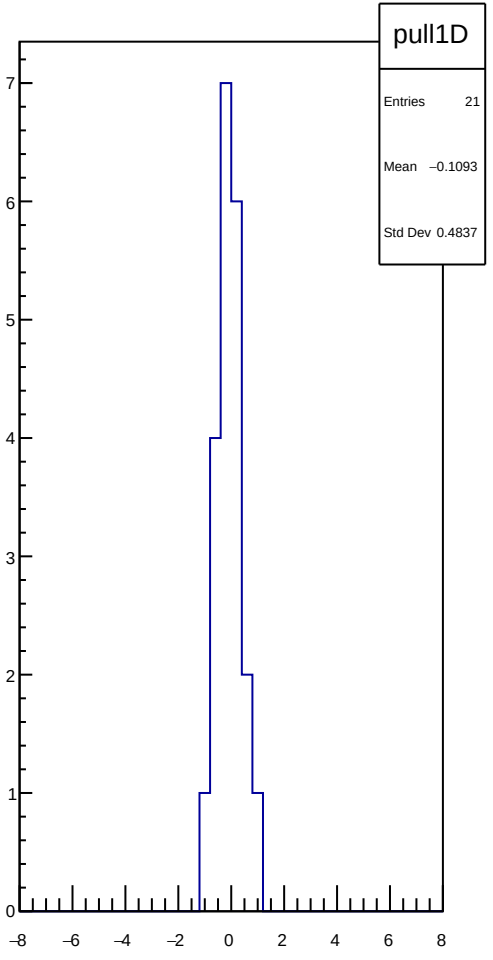

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.211 / 20
p0 0.2338 ± 0.0402
1.5
1
0.5
0
−0.5
−1
−1.5
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −4.756
Std Dev 14.04
pull1D
Entries 21
Mean −0.1791
Std Dev 0.5579
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

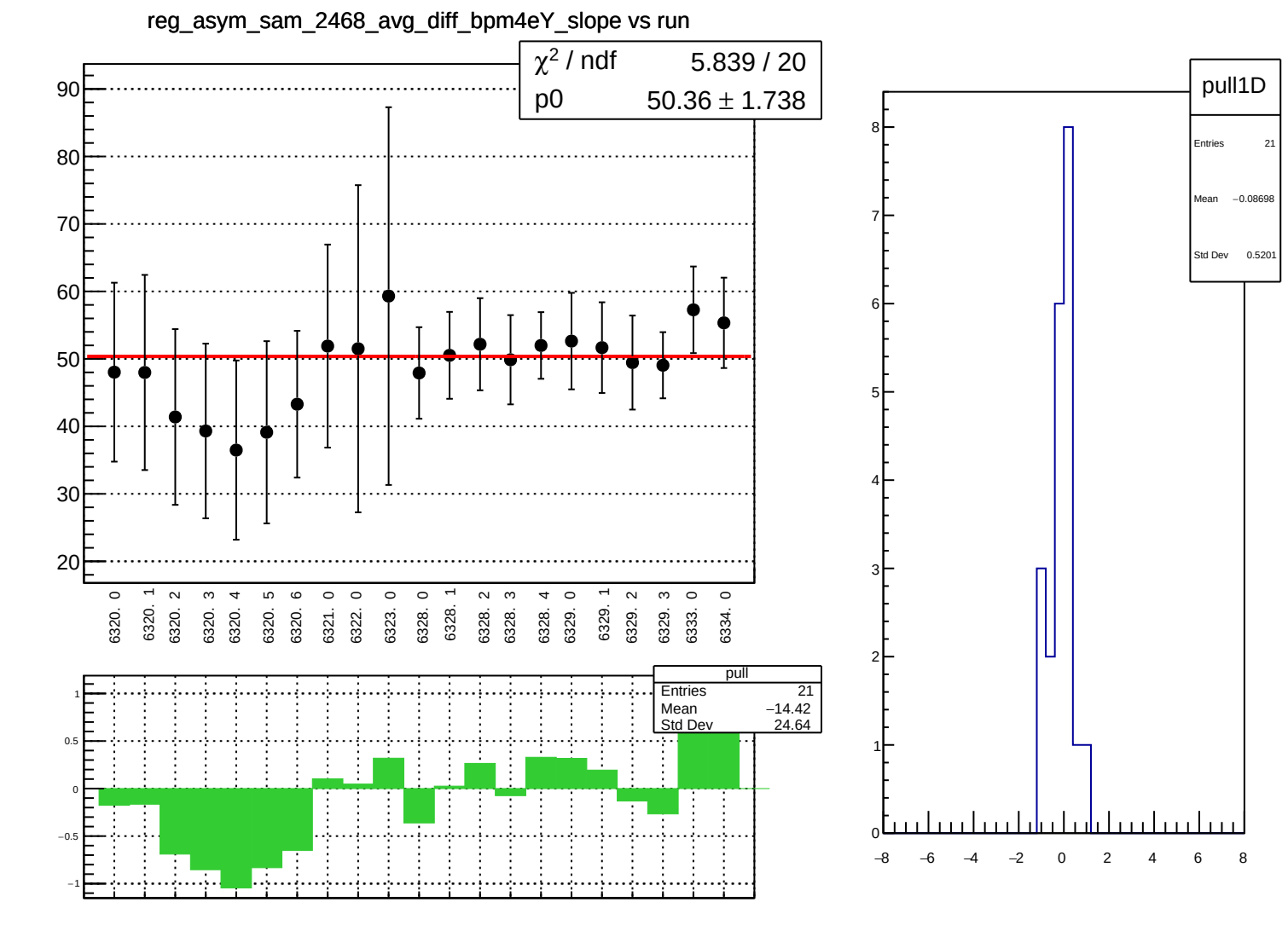

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.208 / 20
p0 −44.8 ± 3.389
60
40
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.7169
Std Dev 5.252
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

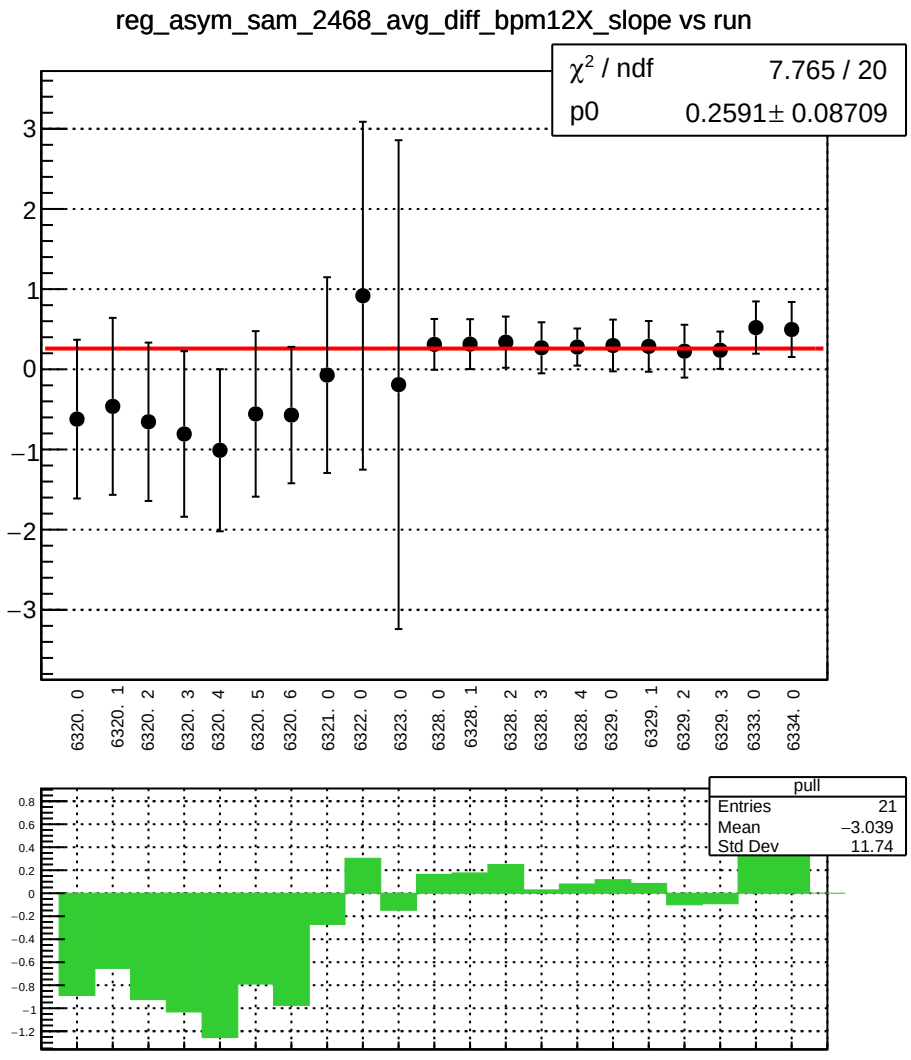

pull1D
Entries 21
Mean 0.1158
Std Dev 0.4843
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

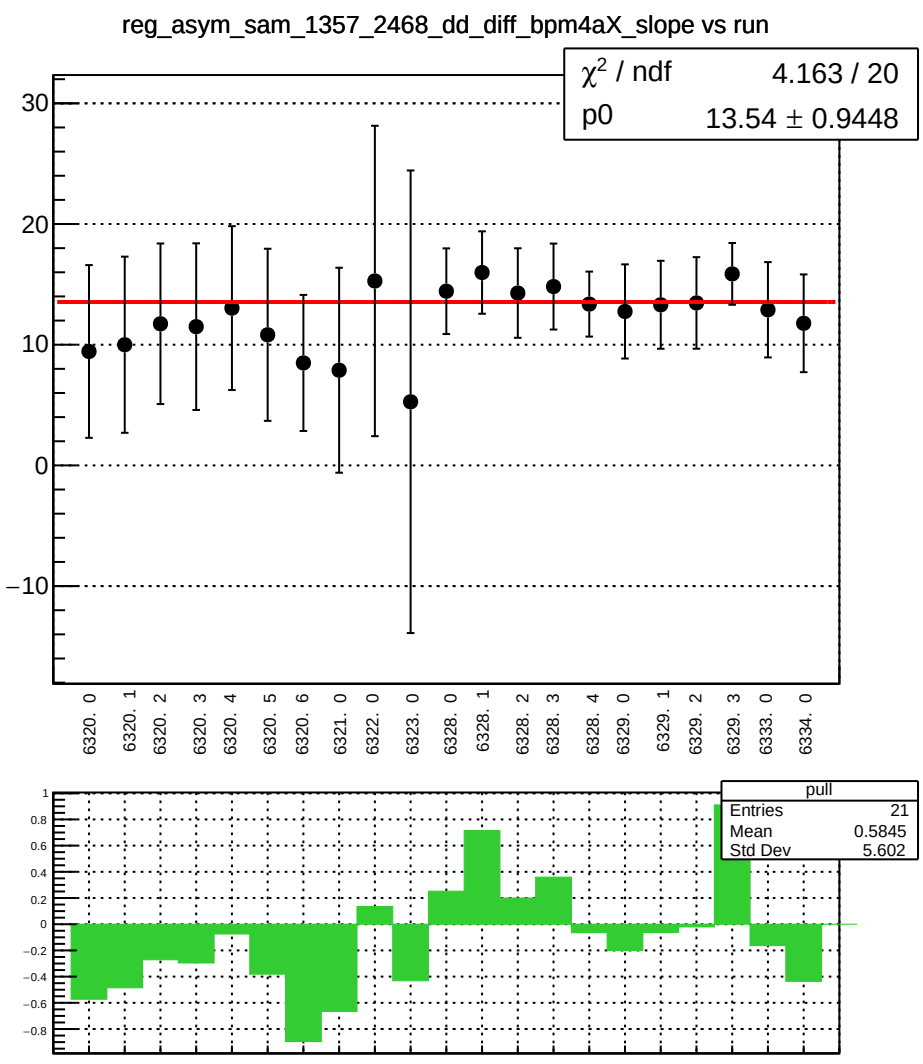

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.164 / 20
p0 −7.482 ± 1.577
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.66
Std Dev 38.96
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.03485
Std Dev 0.3191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

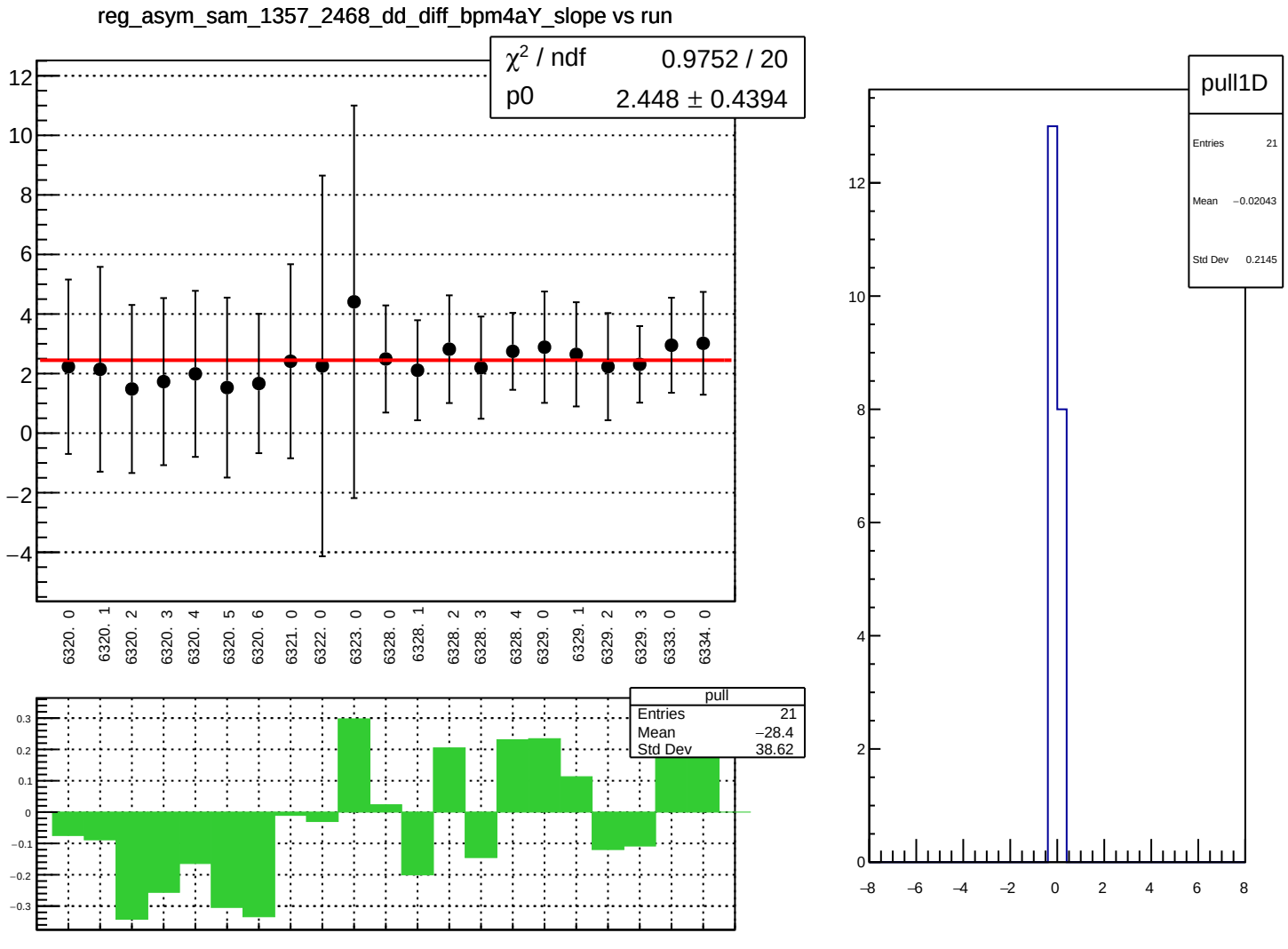

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.164 / 20
p0 −49.1 ± 3.689
20
0
−20
−40
−60
−80
−100
−120
−140
−160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.1433
Std Dev 6.674
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

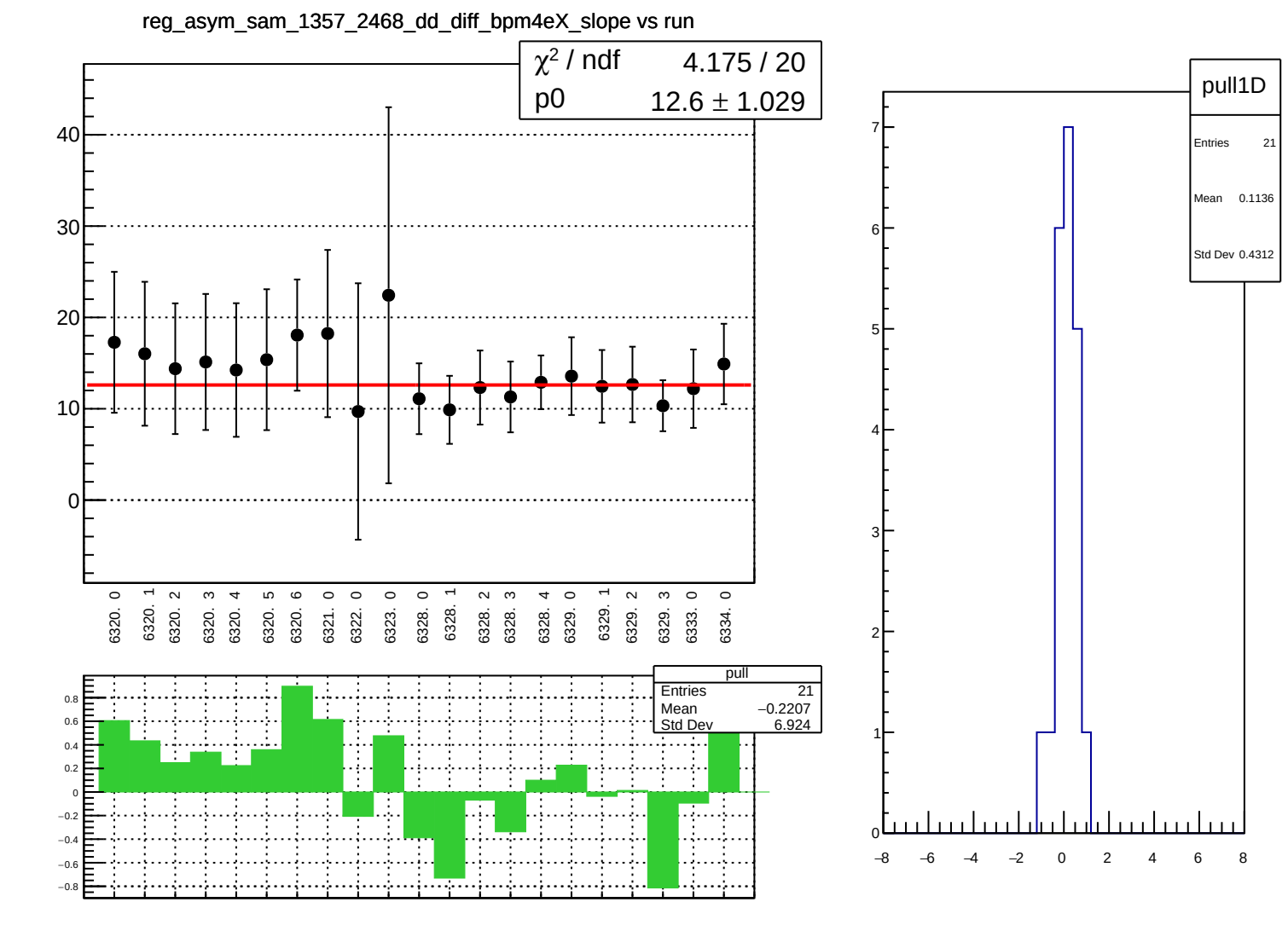

pull1D
Entries 21
Mean −0.1093
Std Dev 0.4837
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

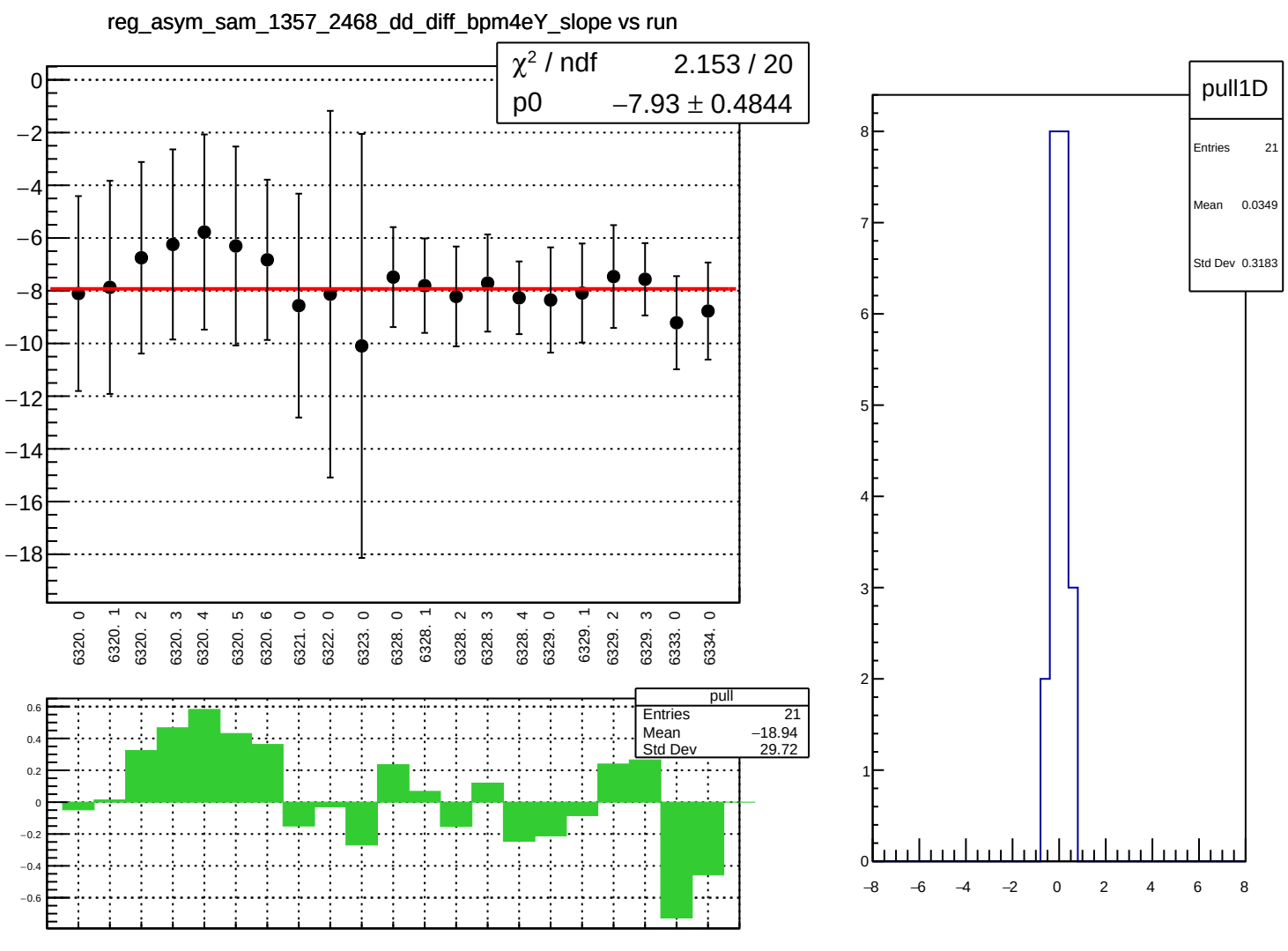

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.839 / 20
p0 50.36 ± 1.738
90
80
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.42
Std Dev 24.64
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.08698
Std Dev 0.5201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

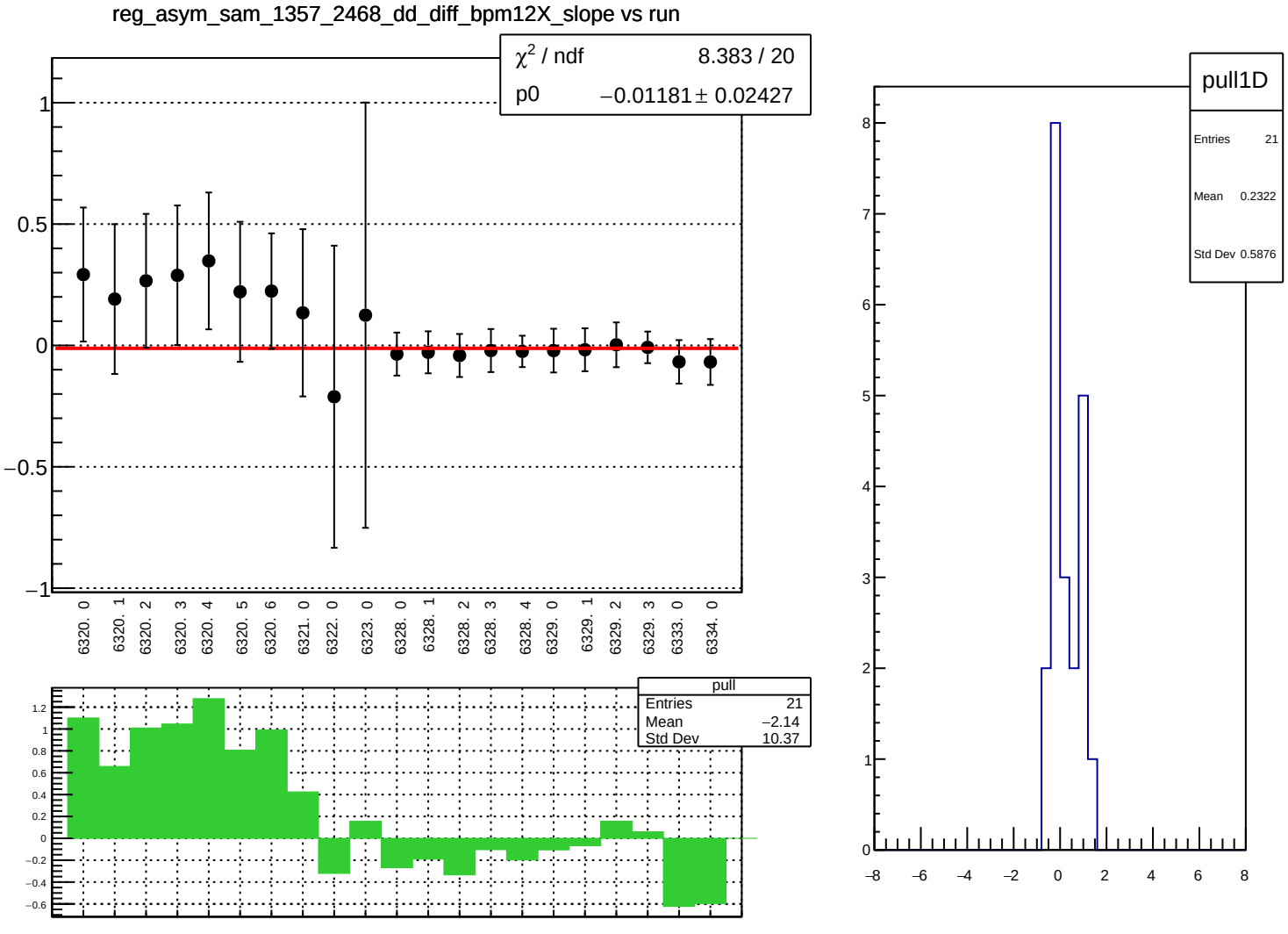

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 7.765 / 20
p0 0.2591± 0.08709
3
2
1
0
−1
−2
−3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.039
Std Dev 11.74
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 21
Mean −0.2111
Std Dev 0.5703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

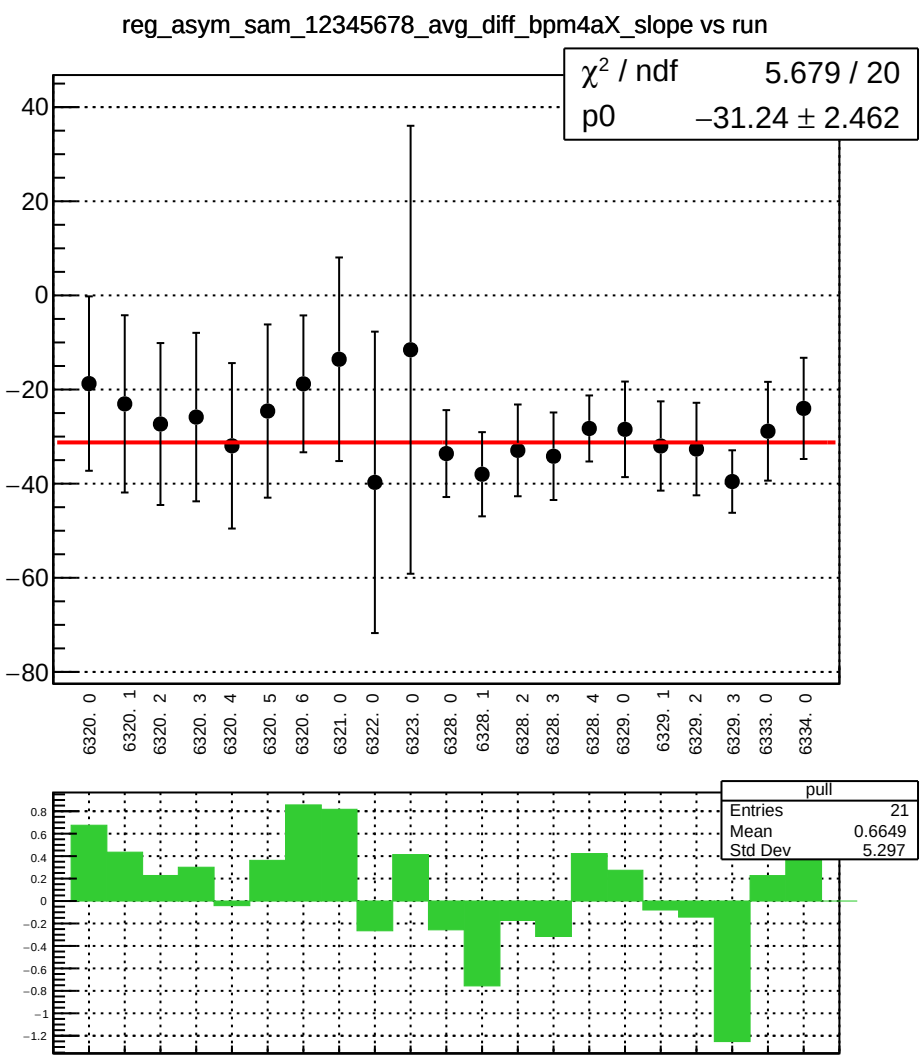

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.163 / 20
p0 13.54 ± 0.9448
30
20
10
0
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.5845
Std Dev 5.602
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.1166
Std Dev 0.4297
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

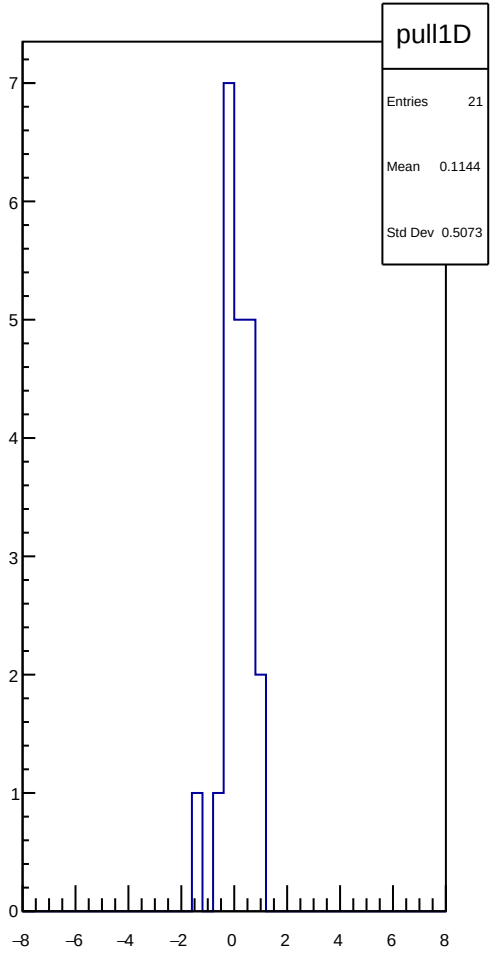

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9752 / 20
p0 2.448 ± 0.4394
12
10
8
6
4
2
0
−2
−4
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −28.4
Std Dev 38.62
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 21
Mean −0.02043
Std Dev 0.2145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

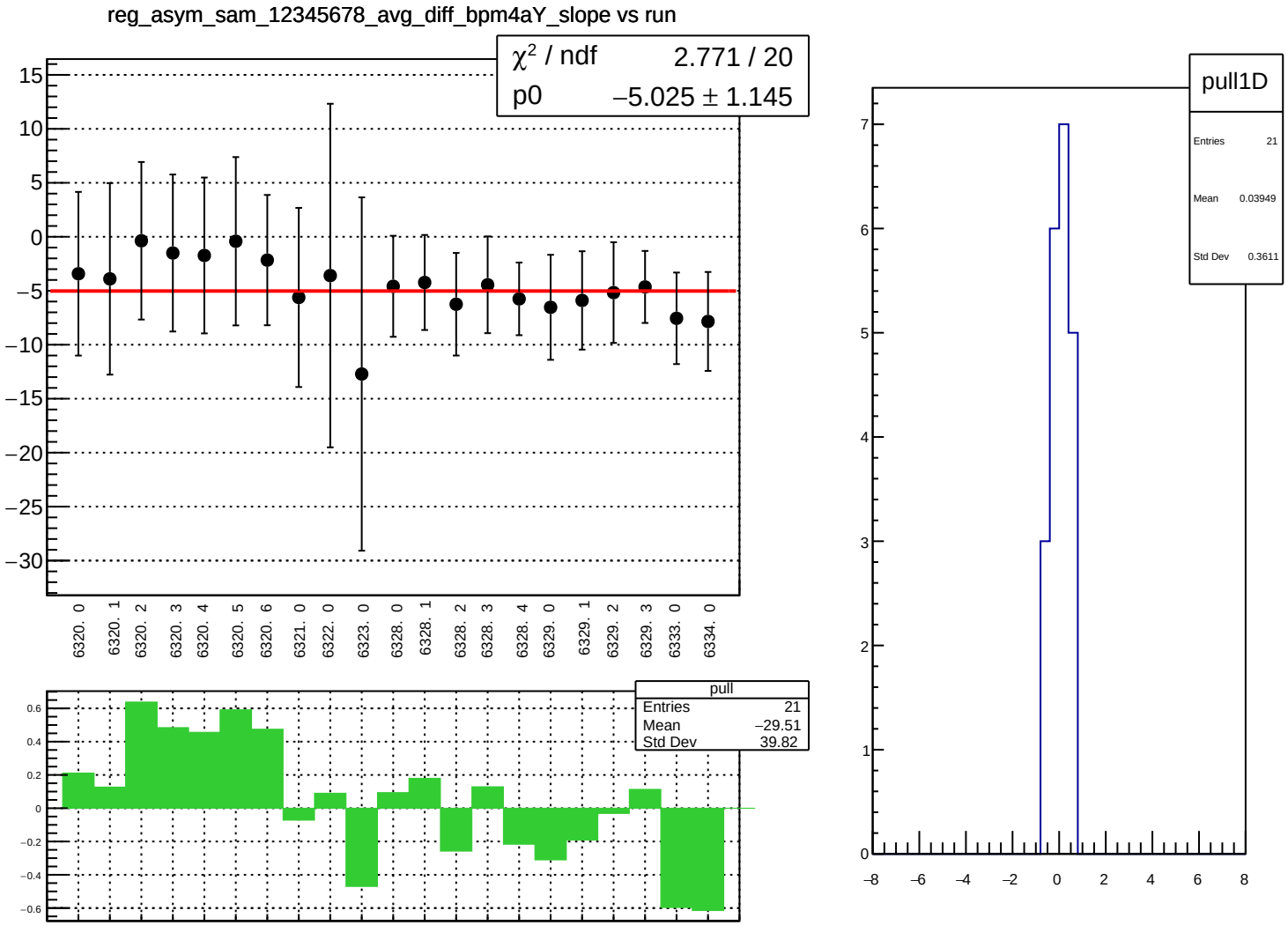

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.175 / 20
p0 12.6 ± 1.029
40
30
20
10
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2207
Std Dev 6.924
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.1136
Std Dev 0.4312
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

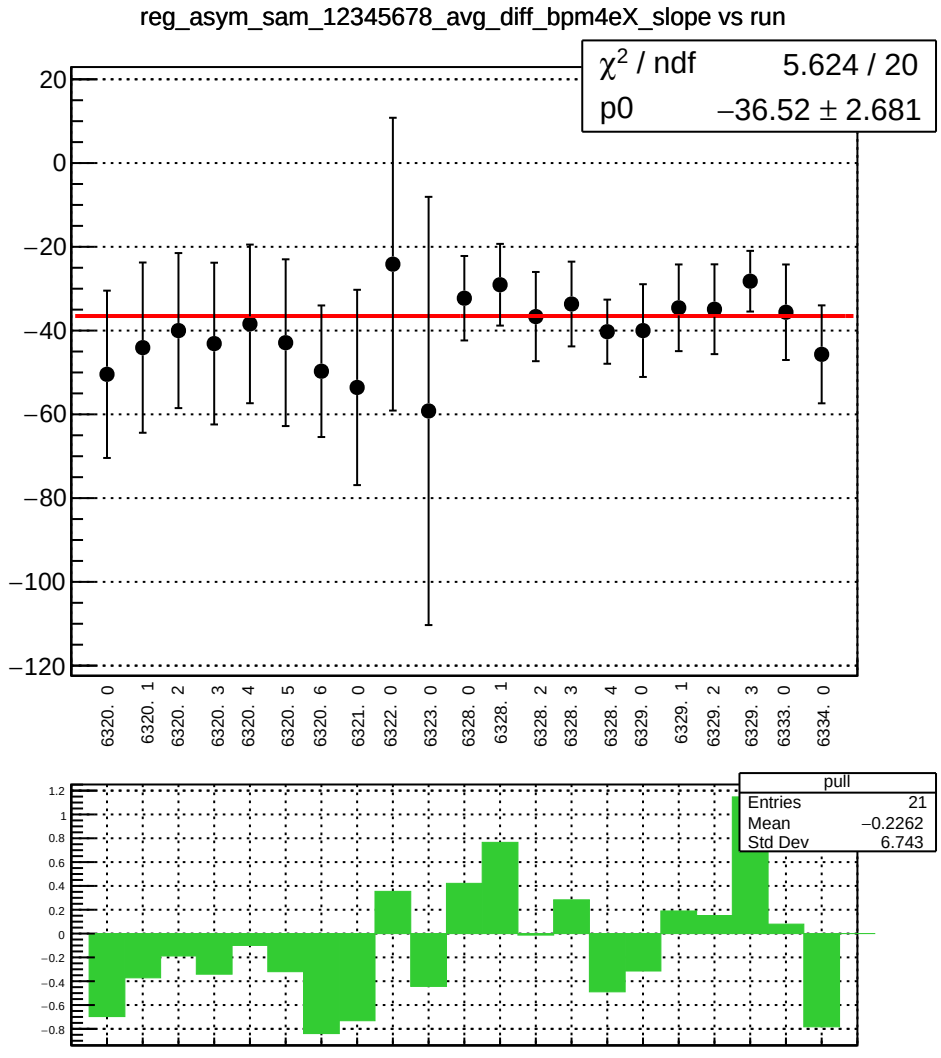

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.153 / 20
p0 −7.93 ± 0.4844
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.94
Std Dev 29.72
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.0349
Std Dev 0.3183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

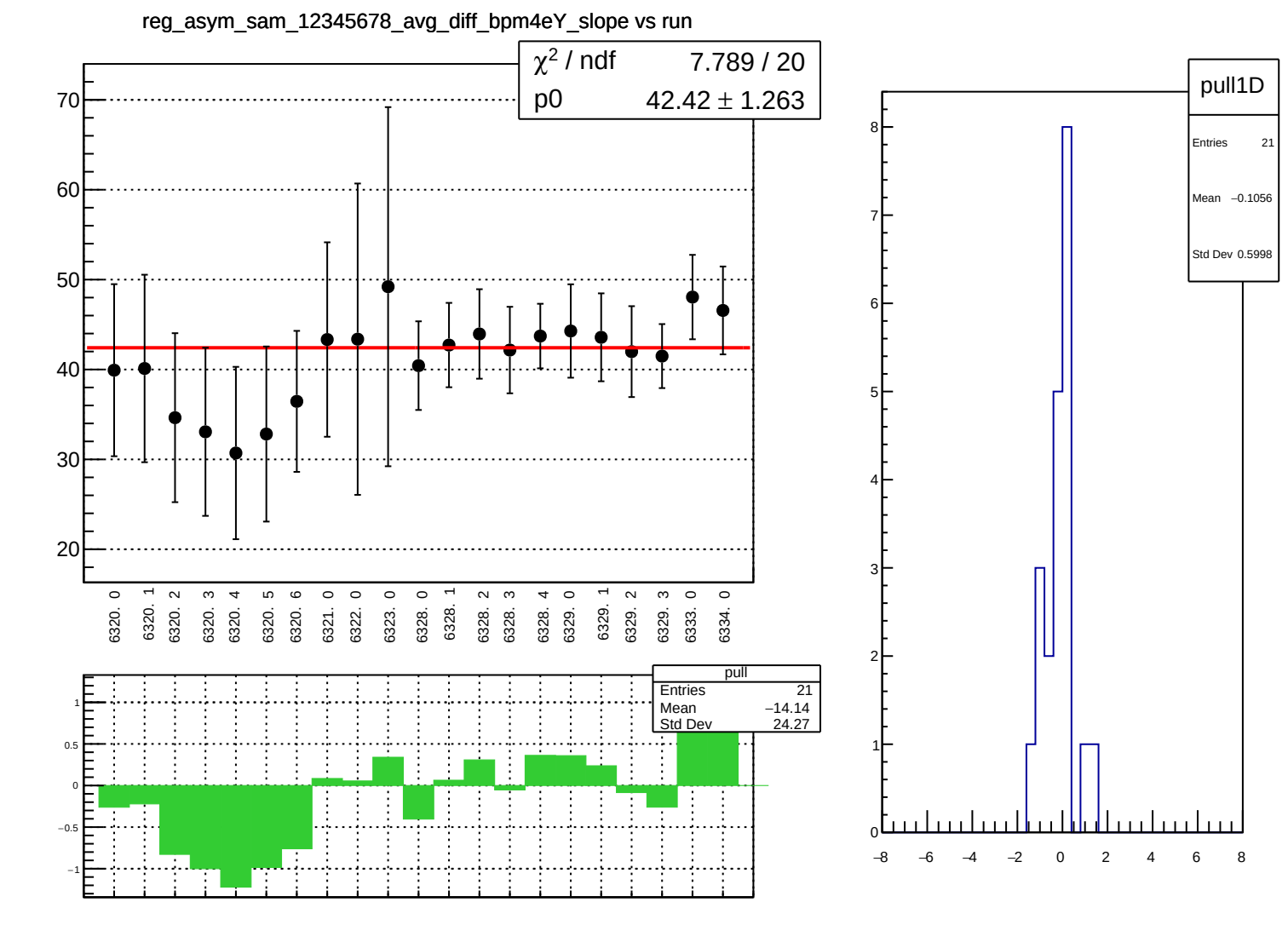

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 8.383 / 20
p0 −0.01181 ± 0.02427
1
0.5
0
−0.5
−1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.14
Std Dev 10.37
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.2322
Std Dev 0.5876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

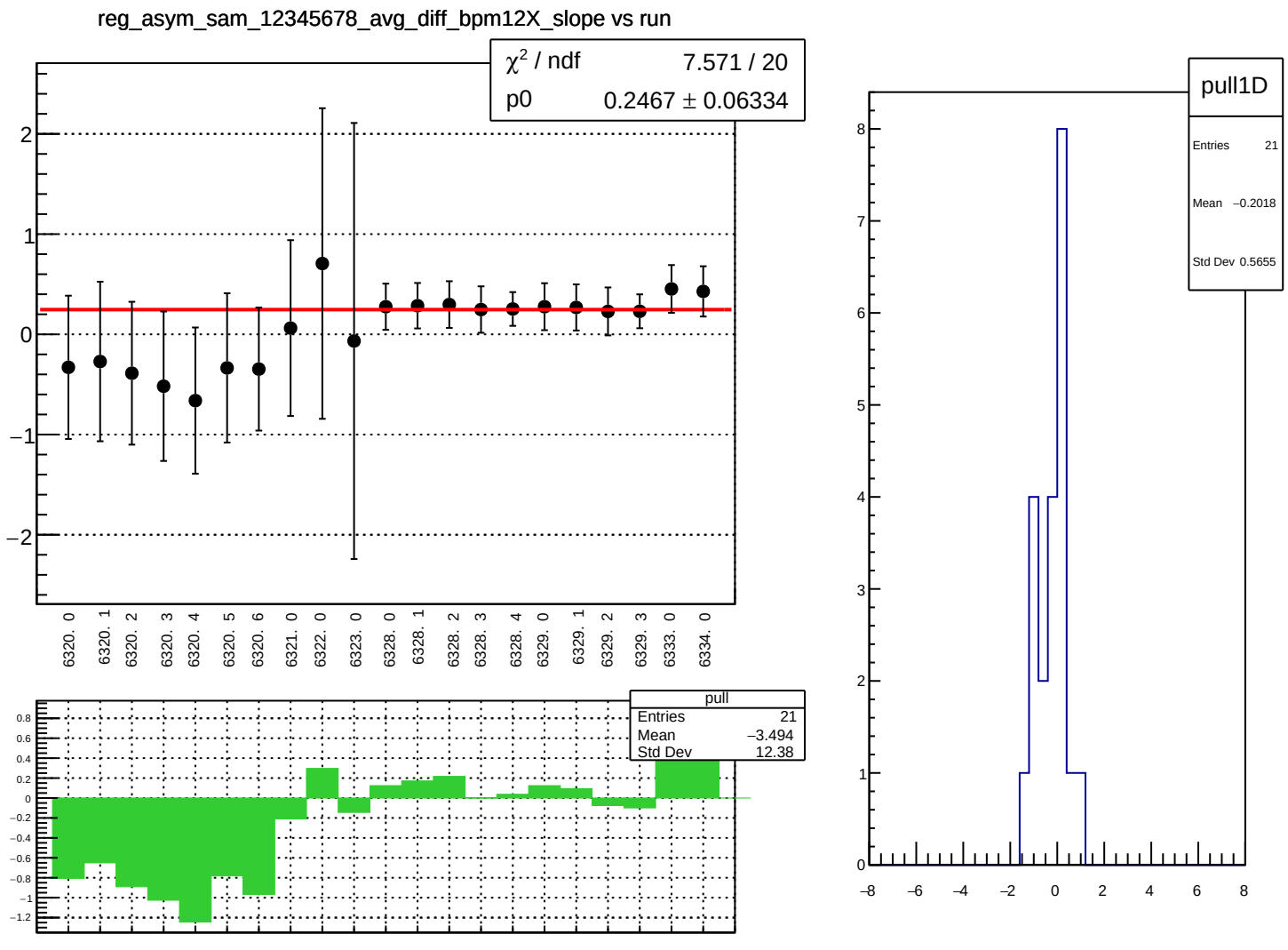

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.679 / 20
p0 −31.24 ± 2.462
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 0.6649
Std Dev 5.297
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

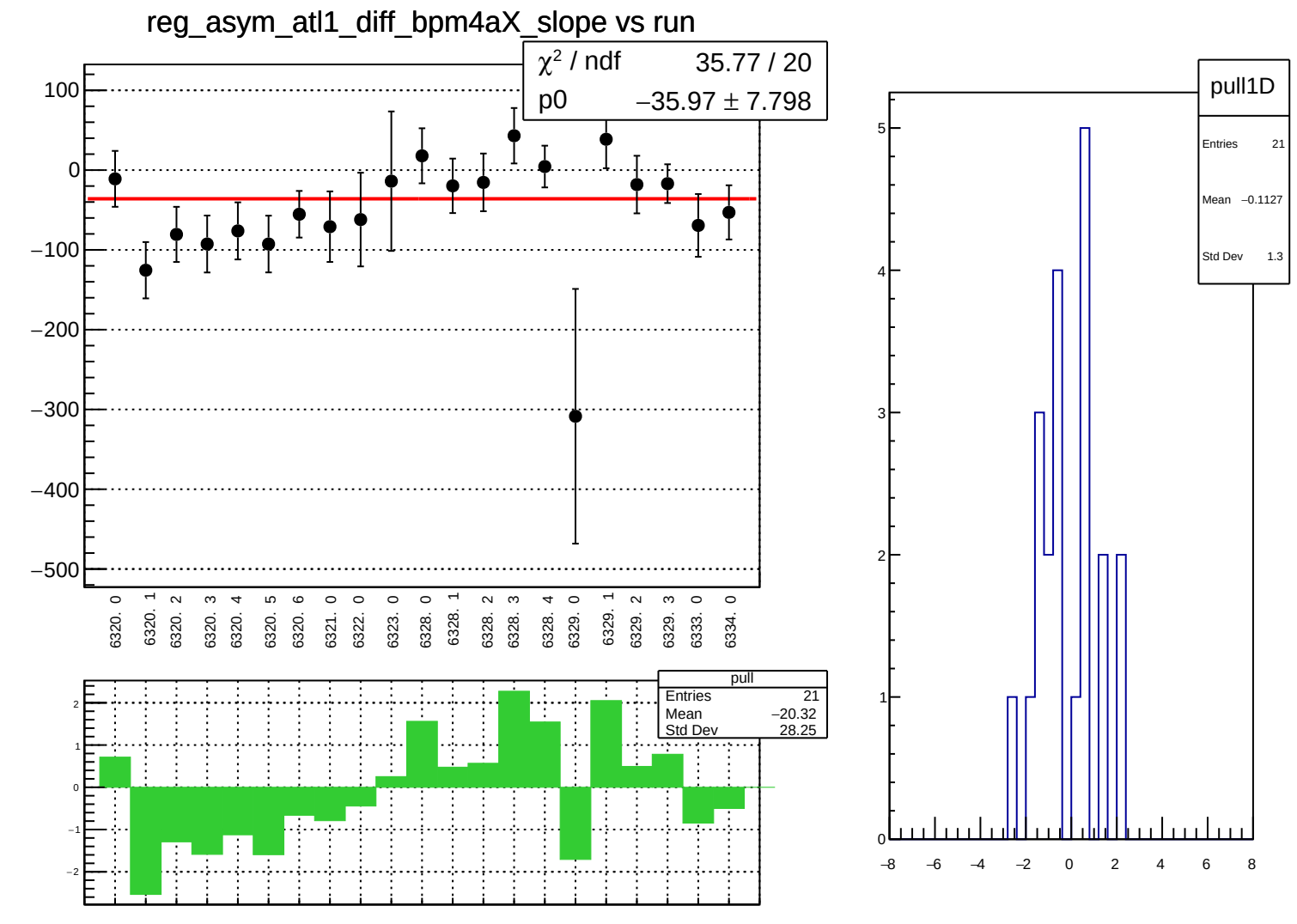

pull1D
Entries 21
Mean 0.1144
Std Dev 0.5073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

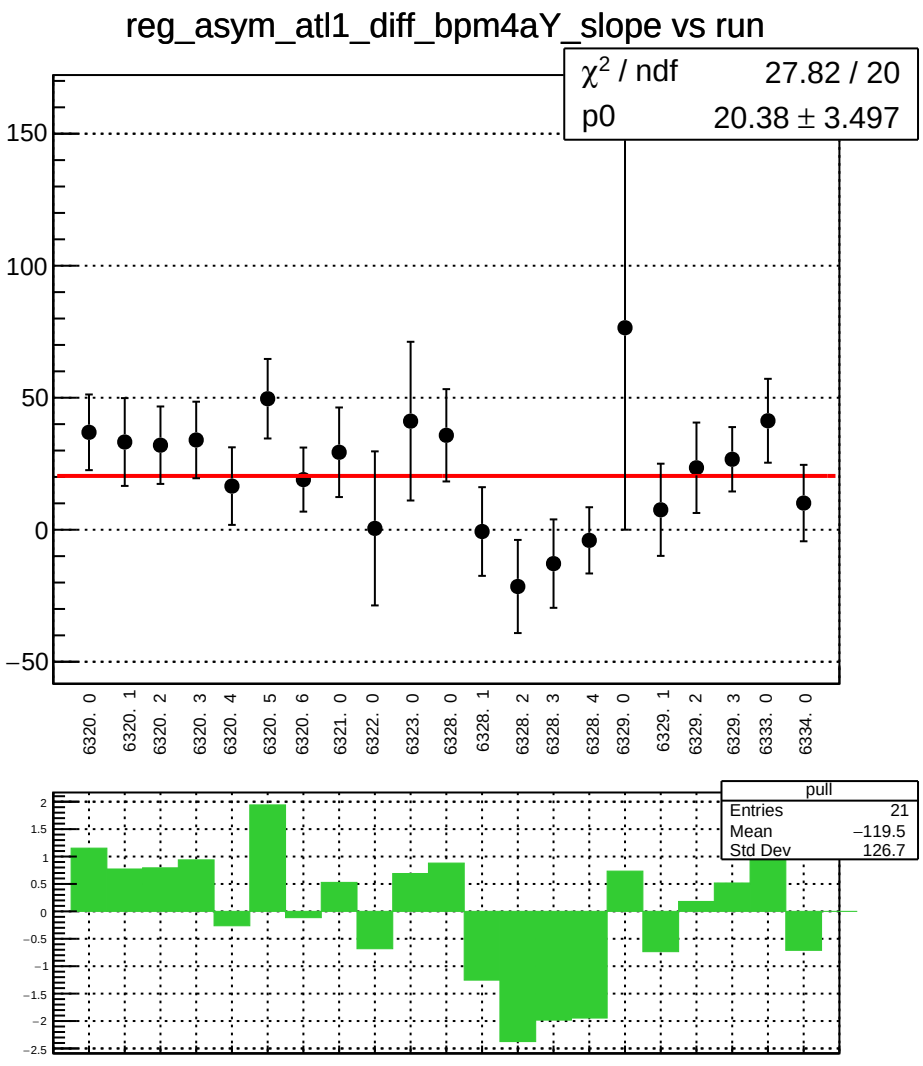

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.771 / 20
p0 −5.025 ± 1.145
15
10
5
0
−5
−10
−15
−20
−25
−30
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −29.51
Std Dev 39.82
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean 0.03949
Std Dev 0.3611
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

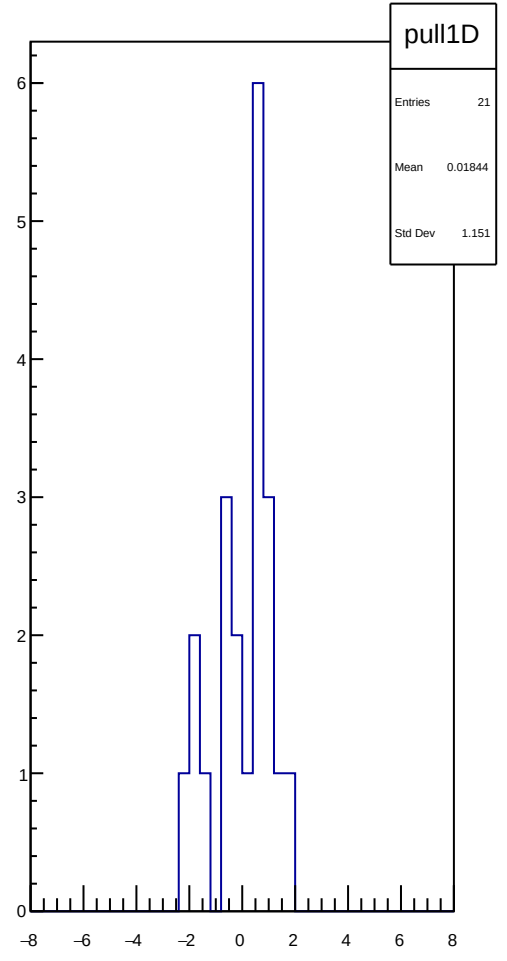

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.624 / 20
p0 −36.52 ± 2.681
20
0
−20
−40
−60
−80
−100
−120
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −0.2262
Std Dev 6.743
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.1066
Std Dev 0.5064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

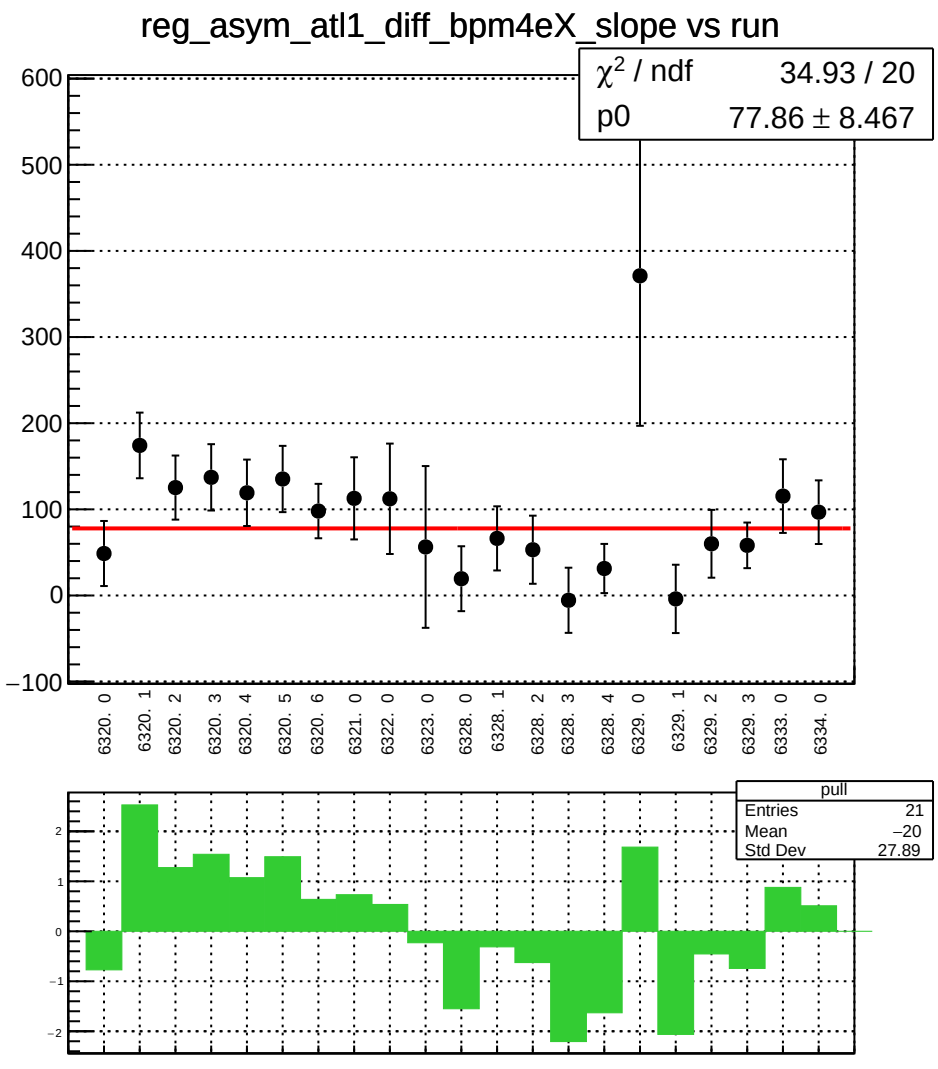

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.789 / 20
p0 42.42 ± 1.263
70
60
50
40
30
20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −14.14
Std Dev 24.27
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1056
Std Dev 0.5998
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

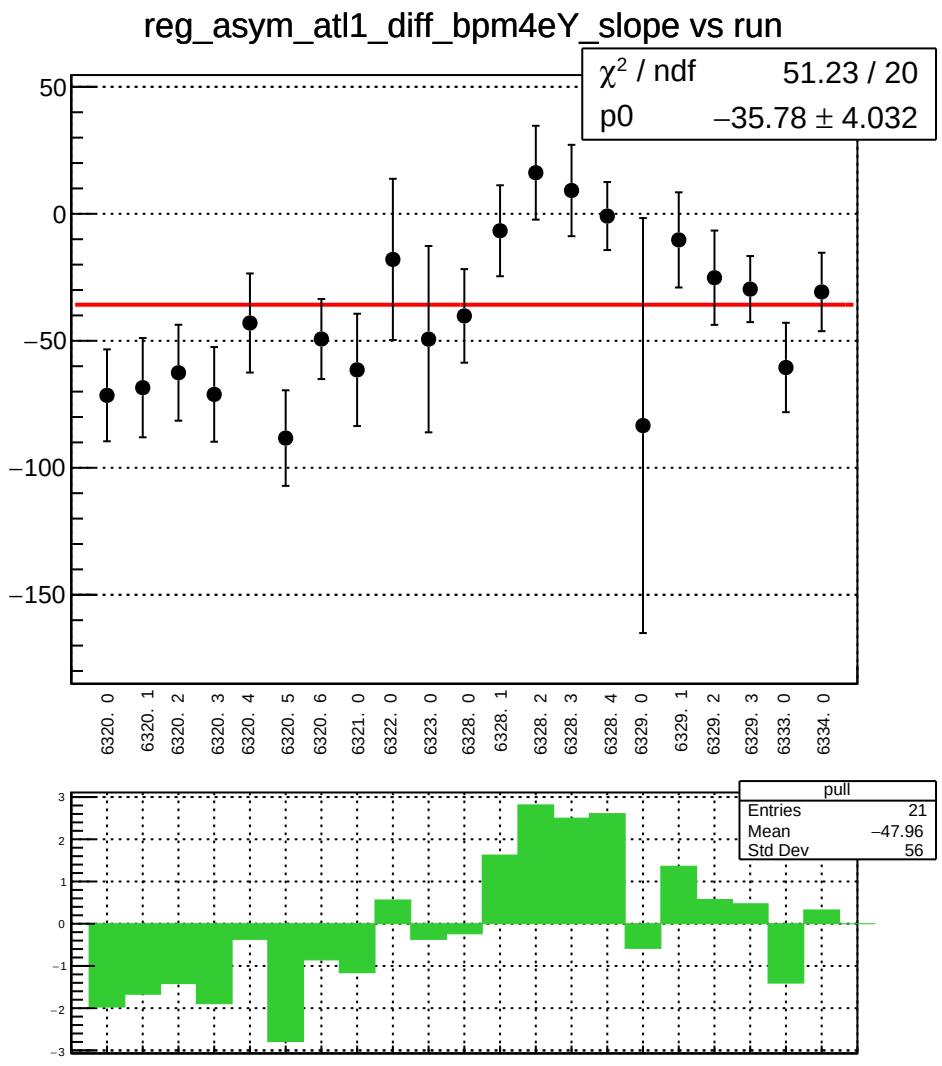

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 7.571 / 20
p0 0.2467 ± 0.06334
2
1
0
−1
−2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −3.494
Std Dev 12.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 21
Mean −0.2018
Std Dev 0.5655
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

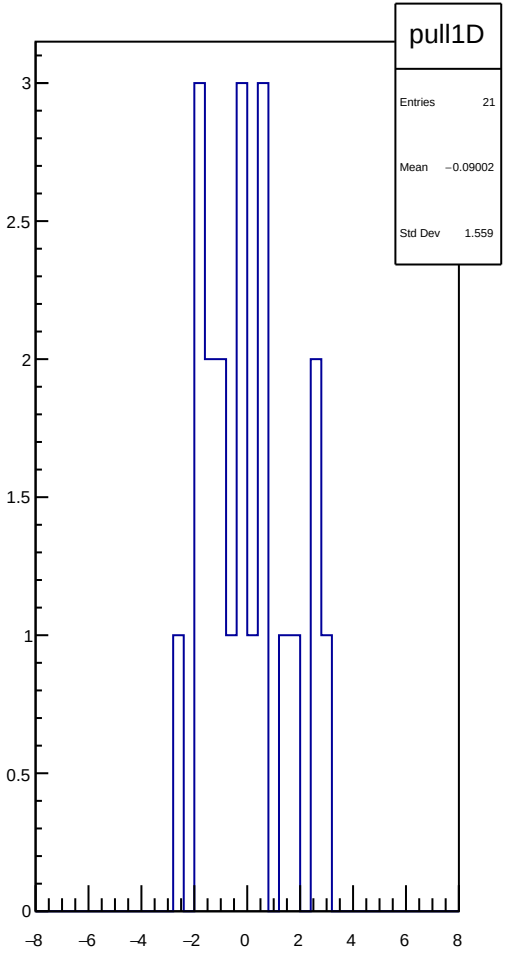

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 35.77 / 20
p0 −35.97 ± 7.798
100
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.32
Std Dev 28.25
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.1127
Std Dev 1.3
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

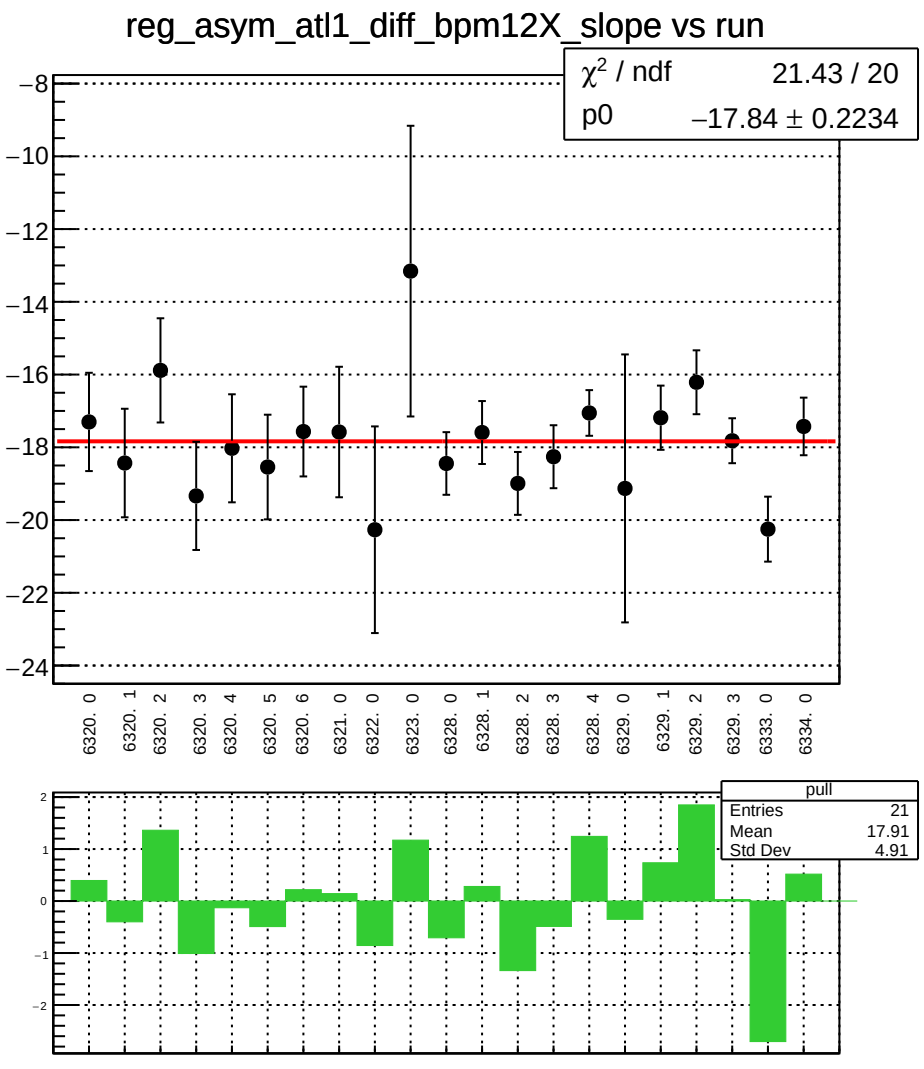

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 27.82 / 20
p0 20.38 ± 3.497
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −119.5
Std Dev 126.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

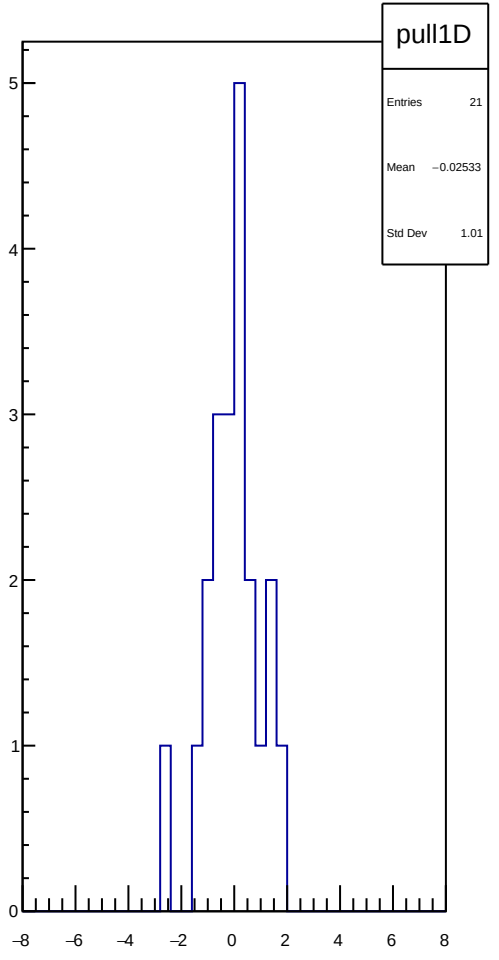

pull1D
Entries 21
Mean 0.01844
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

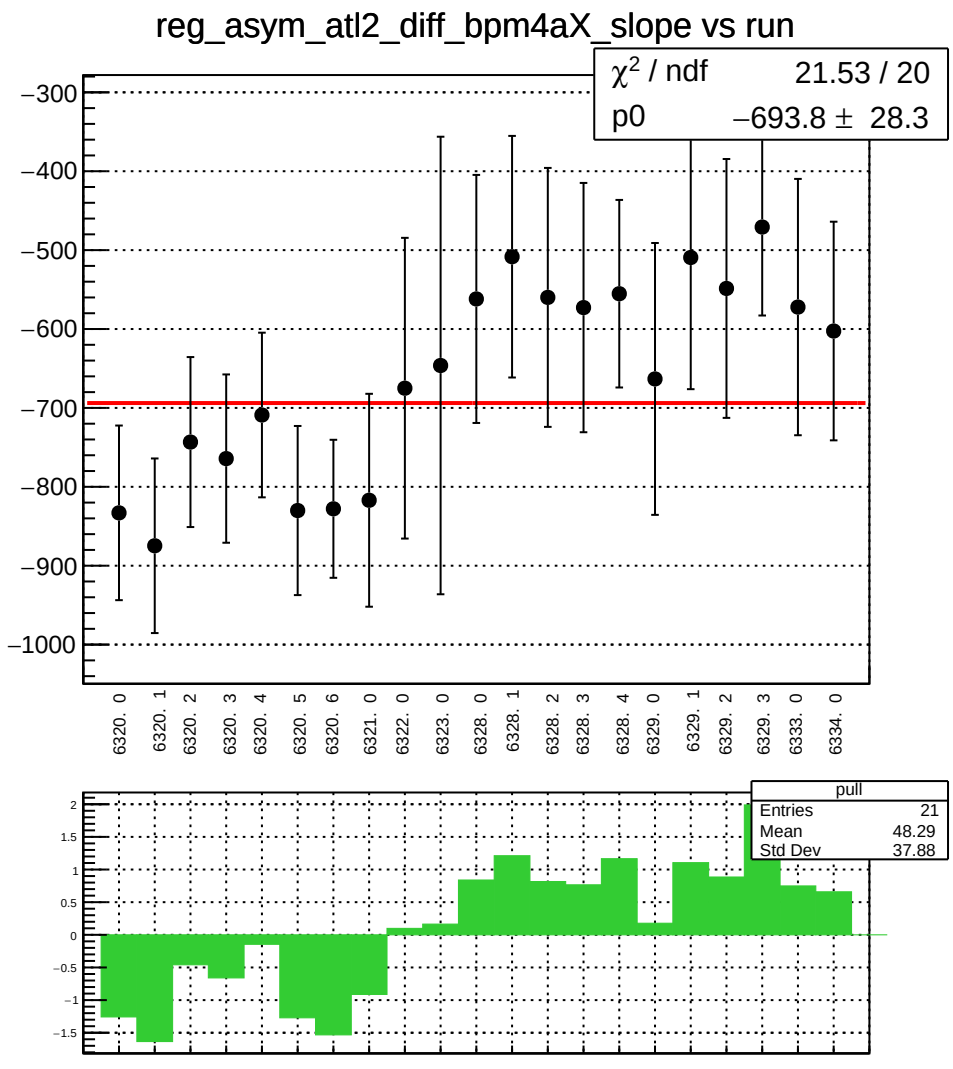

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 34.93 / 20
p0 77.86 ± 8.467
600
500
400
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20
Std Dev 27.89
2
1
0
−1
−2
pull1D
Entries 21
Mean 0.1097
Std Dev 1.285
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

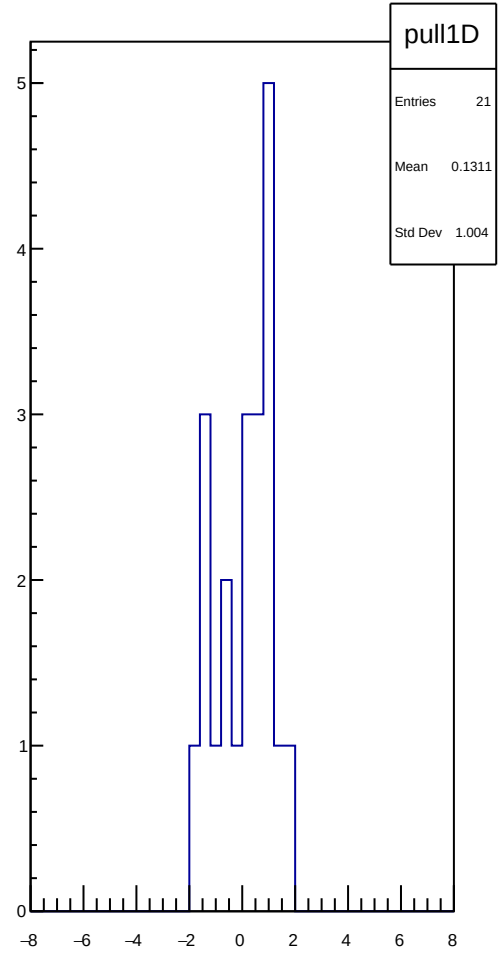

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 51.23 / 20
p0 −35.78 ± 4.032
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −47.96
Std Dev 56
3
2
1
0
−1
−2
−3

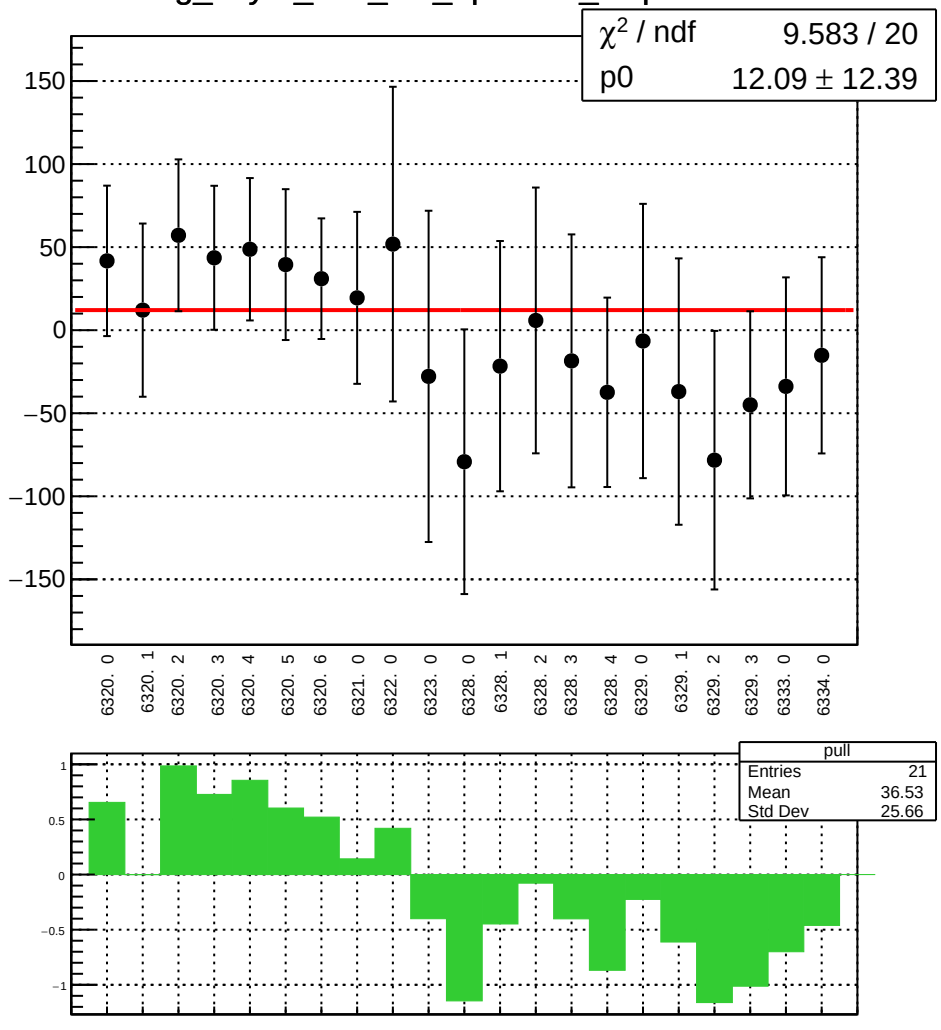

pull1D
Entries 21
Mean −0.09002
Std Dev 1.559
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

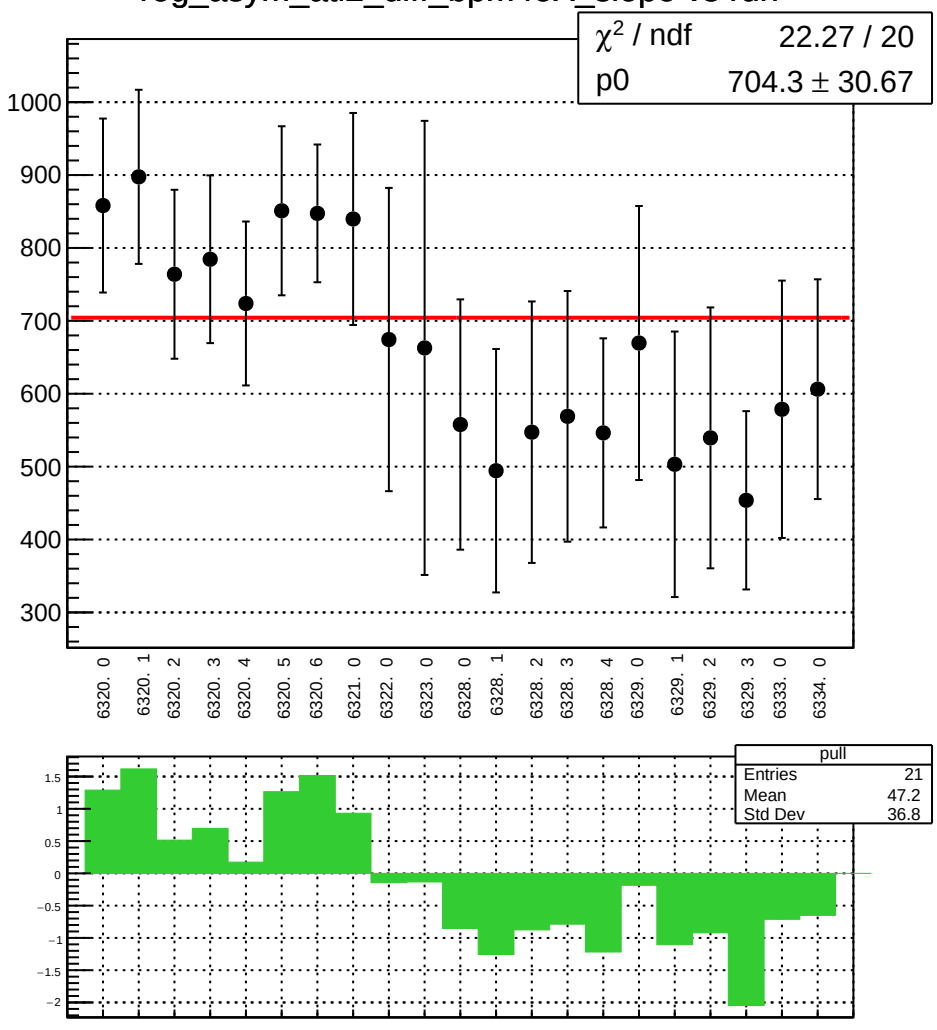

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 21.43 / 20
p0 −17.84 ± 0.2234
−8
−10
−12
−14
−16
−18
−20
−22
−24
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 17.91
Std Dev 4.91
2
1
0
−1
−2

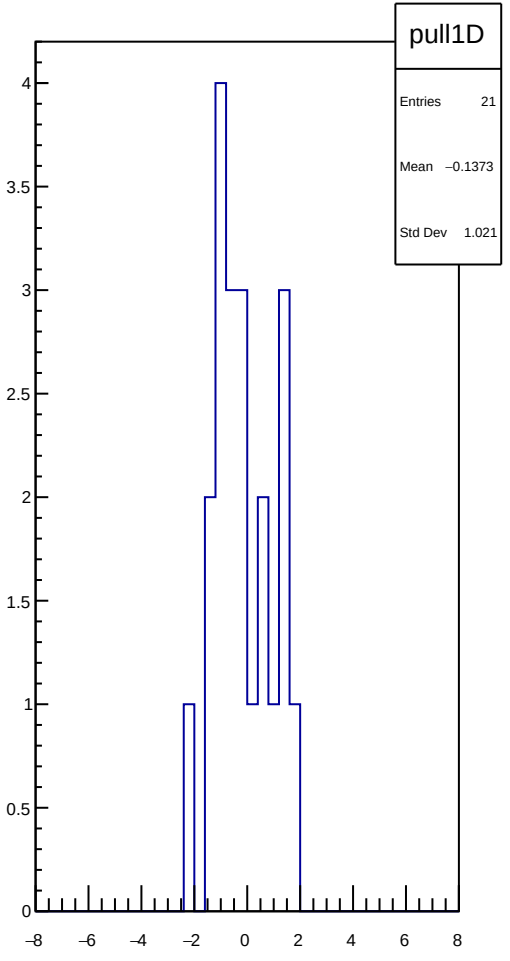

pull1D
Entries 21
Mean −0.02533
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

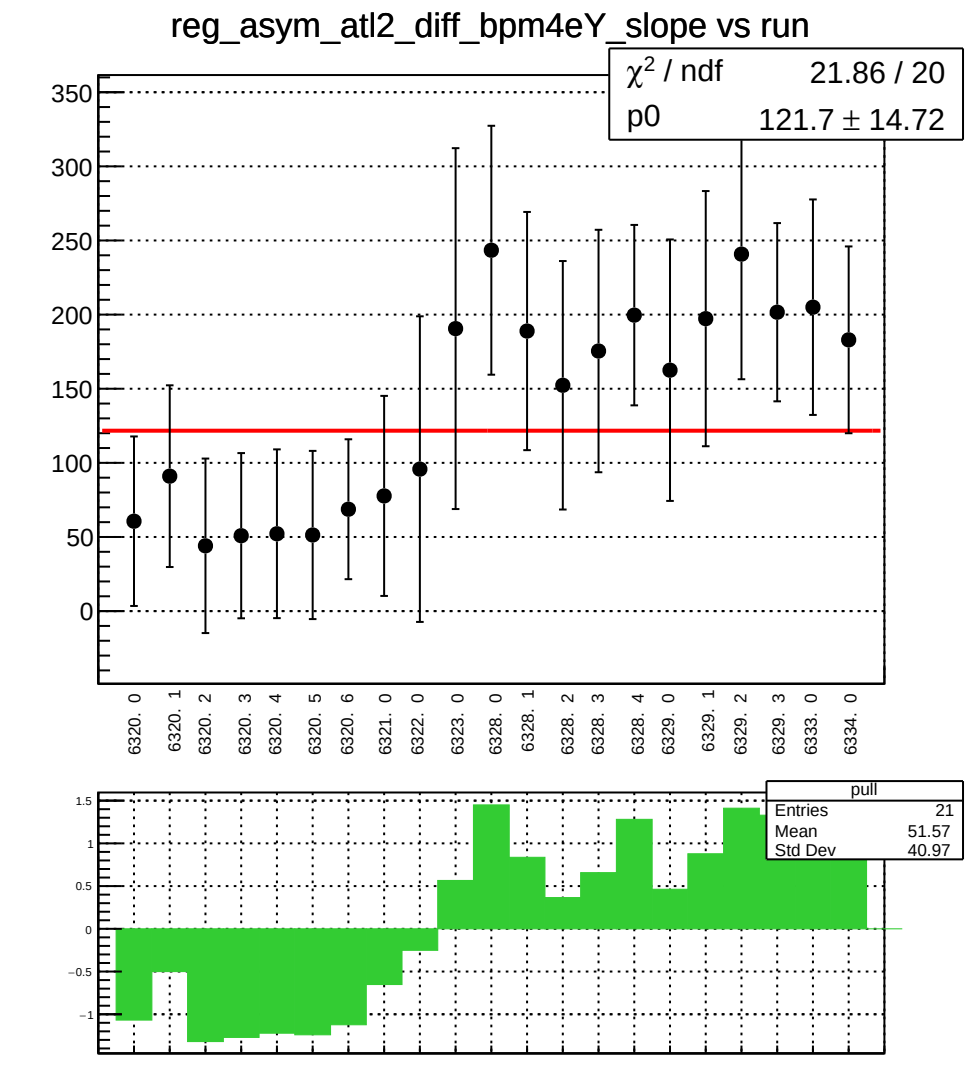

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 21.53 / 20
p0 −693.8 ± 28.3
−300
−400
−500
−600
−700
−800
−900
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.29
Std Dev 37.88
2
1.5
1
0.5
0
−0.5
−1
−1.5

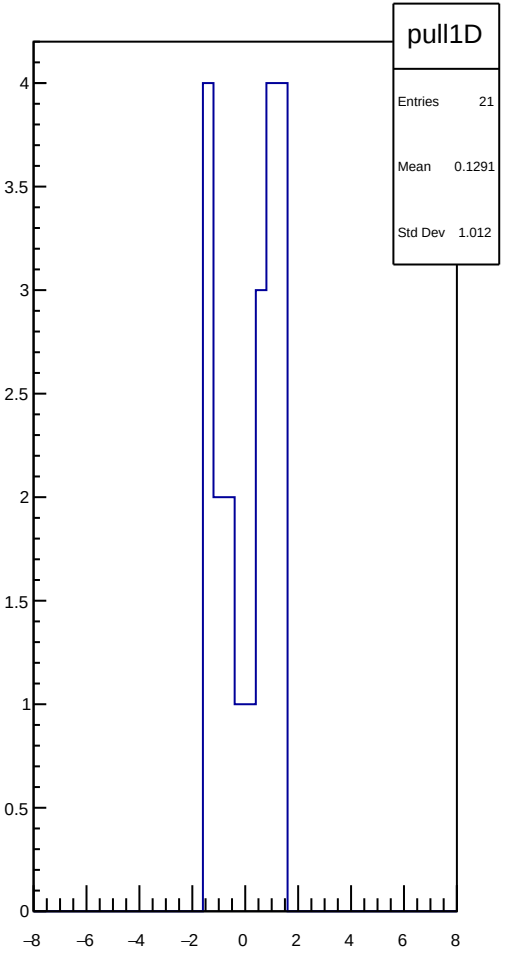

pull1D
Entries 21
Mean 0.1311
Std Dev 1.004
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

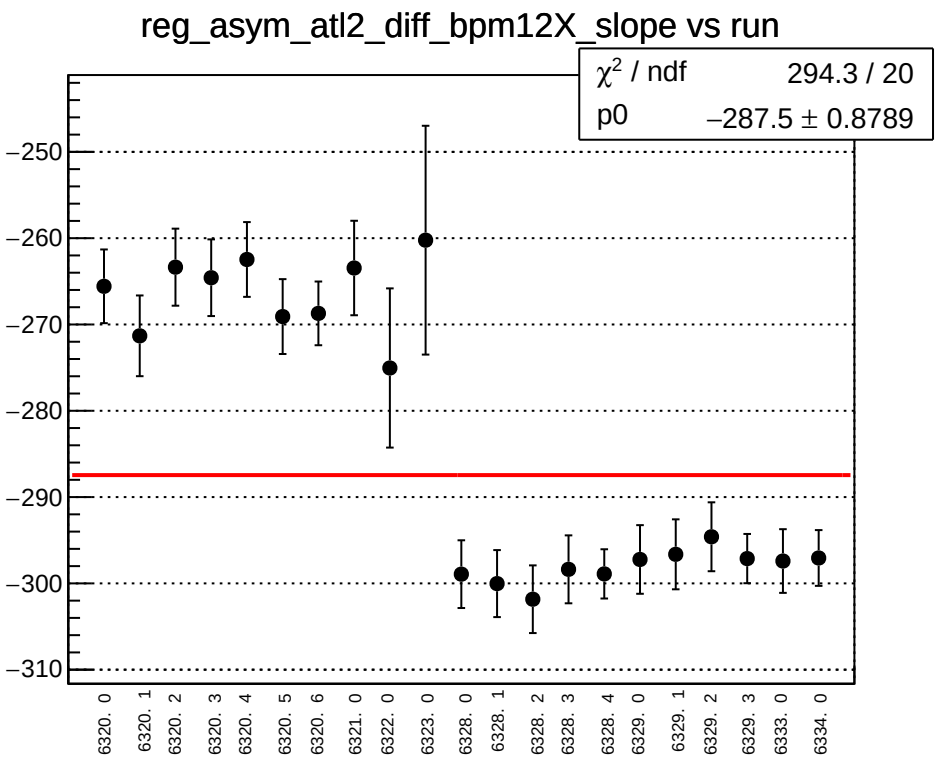

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.583 / 20
p0 12.09 ± 12.39
150
100
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.53
Std Dev 25.66
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.1241
Std Dev 0.664
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

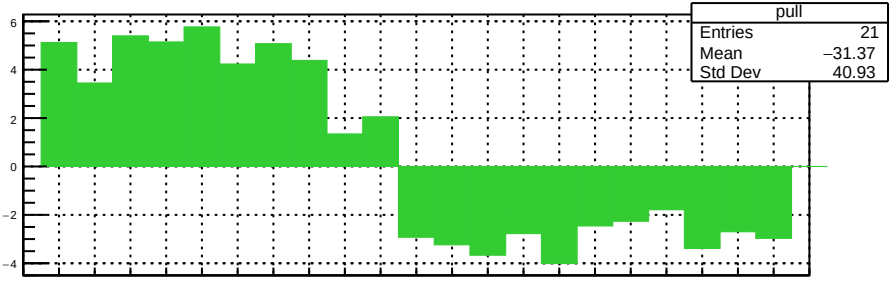

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 22.27 / 20
p0 704.3 ± 30.67
1000
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 47.2
Std Dev 36.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

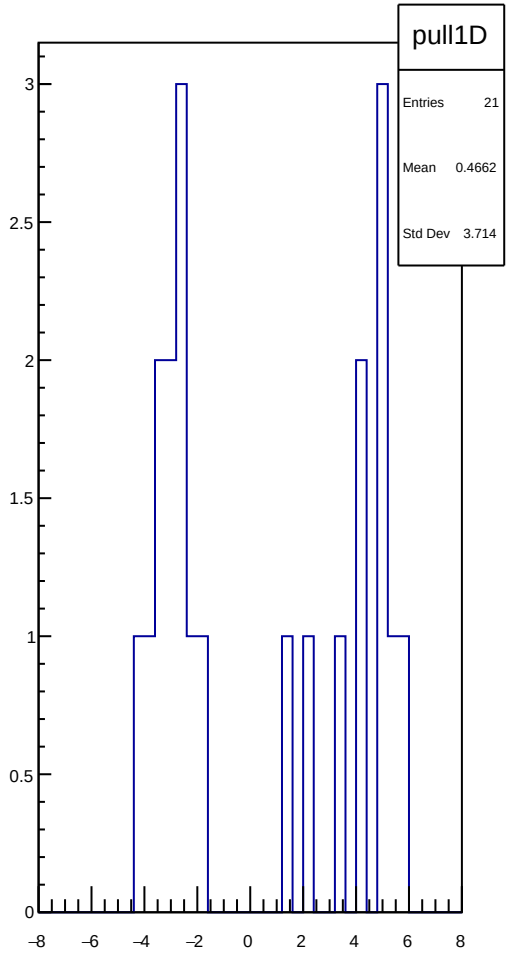

pull1D
Entries 21
Mean −0.1373
Std Dev 1.021
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

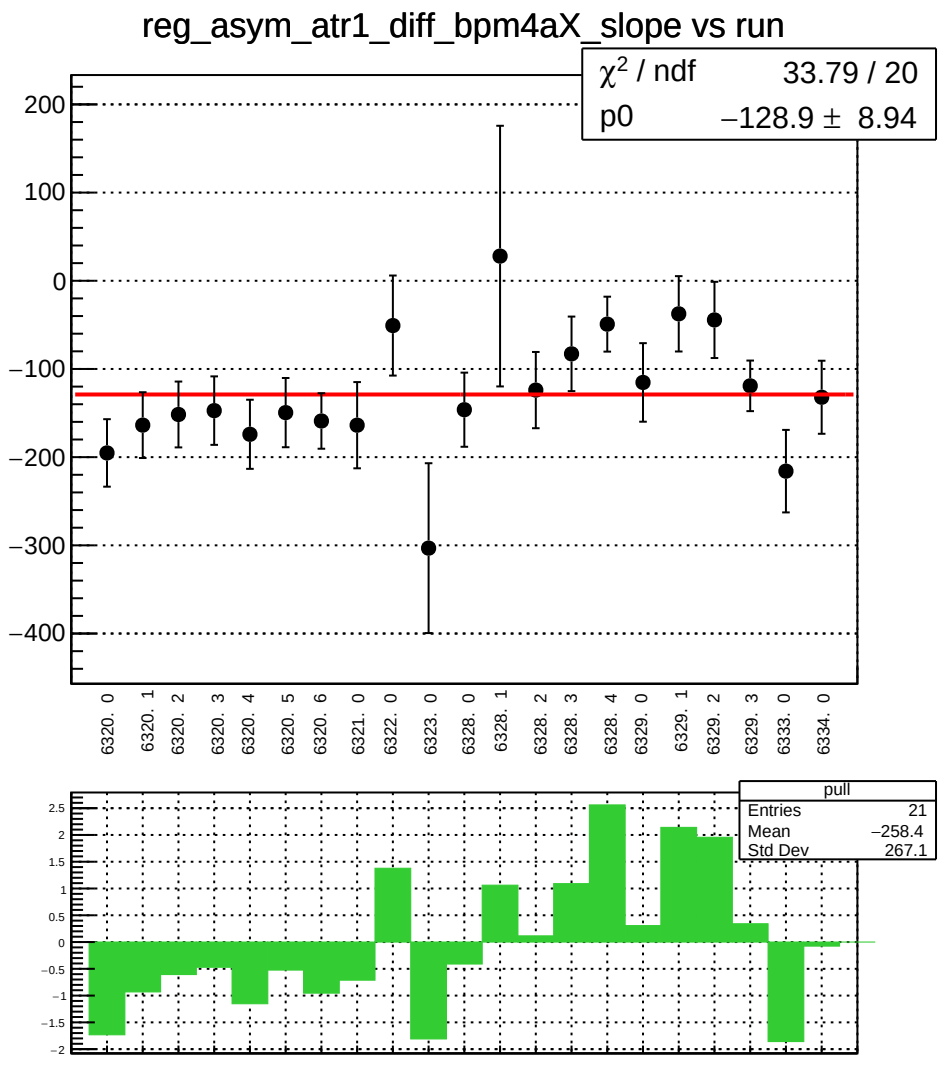

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 21.86 / 20
p0 121.7 ± 14.72
350
300
250
200
150
100
50
0
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 51.57
Std Dev 40.97
1.5
1
0.5
0
−0.5
−1

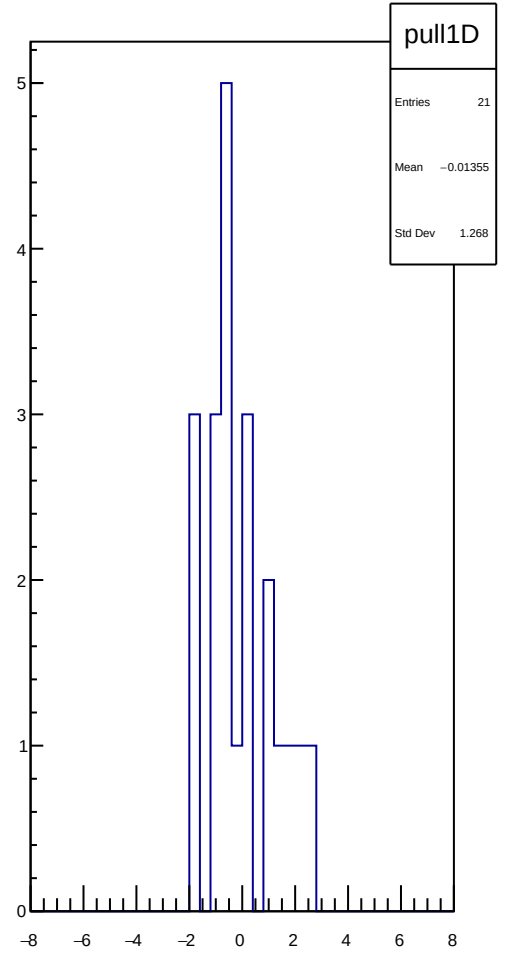

pull1D
Entries 21
Mean 0.1291
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

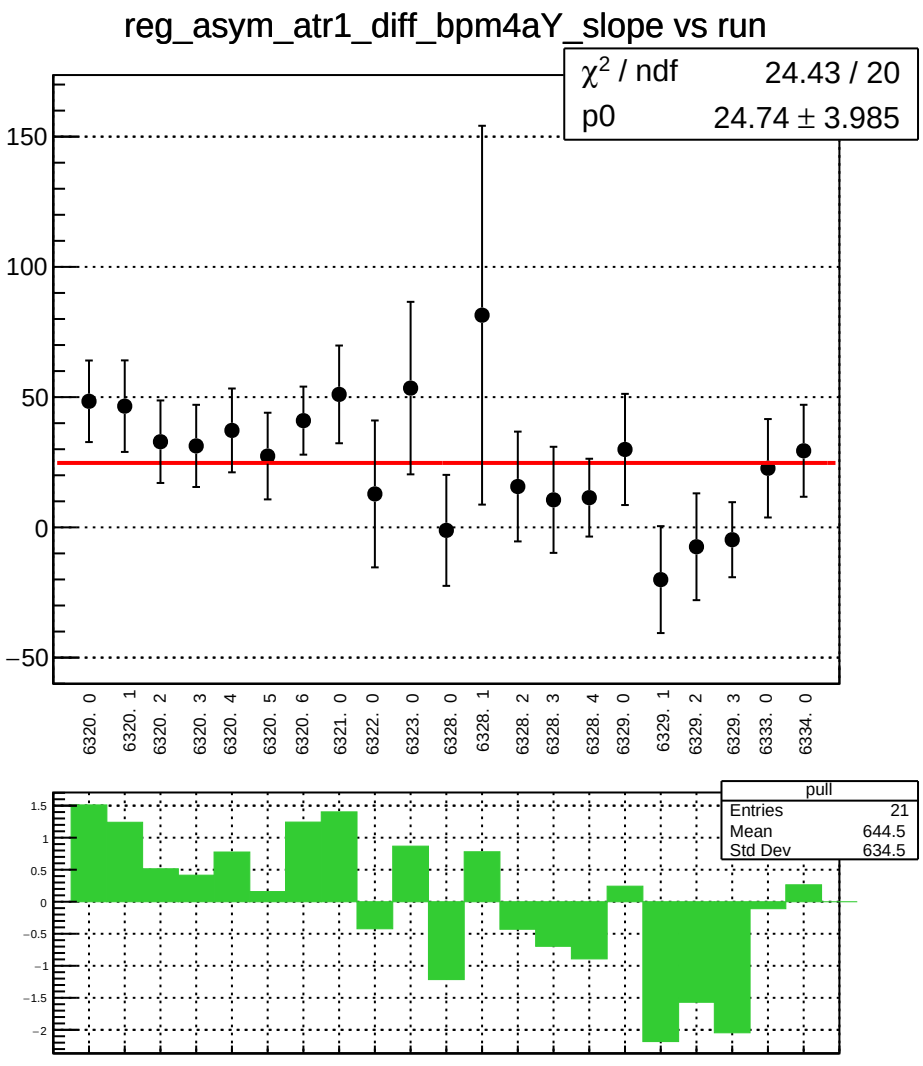

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 294.3 / 20
p0 −287.5 ± 0.8789
−250
−260
−270
−280
−290
−300
−310
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

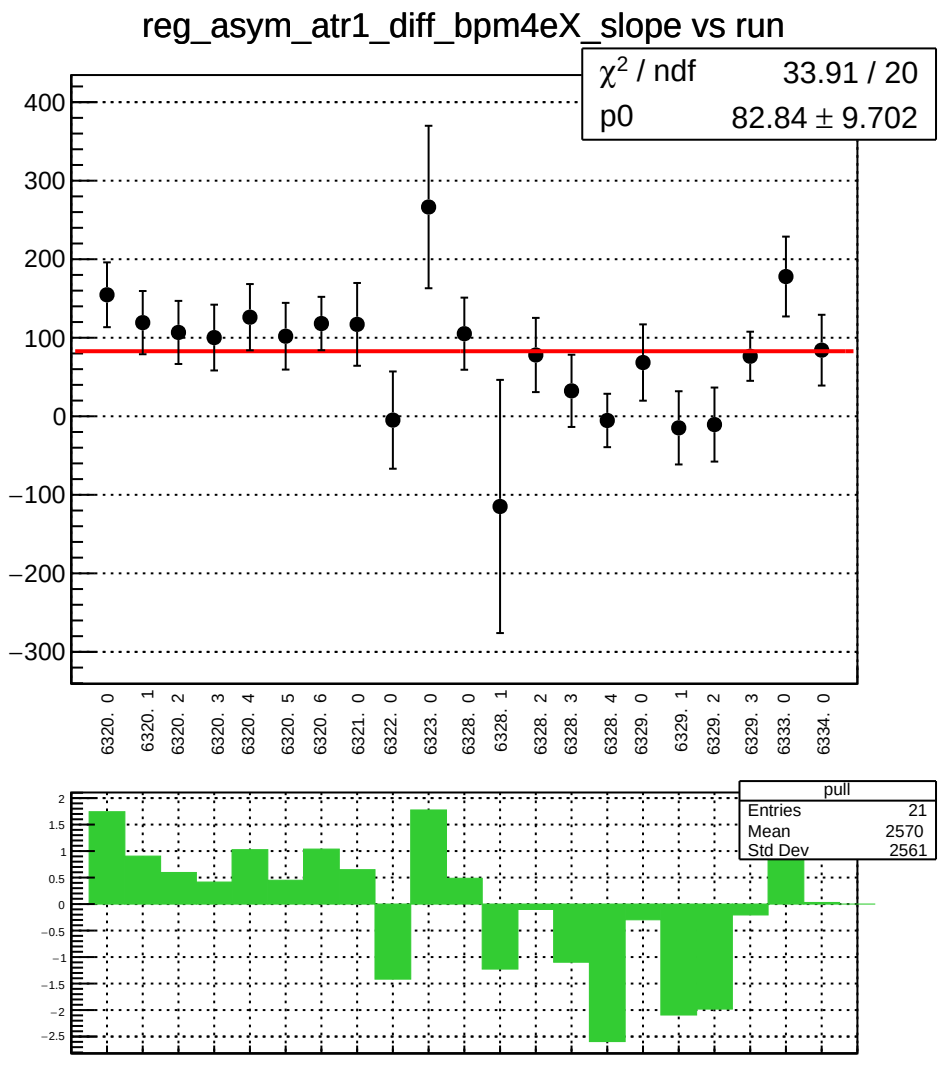

pull
Entries 21
Mean −31.37
Std Dev 40.93
6
4
2
0
−2
−4

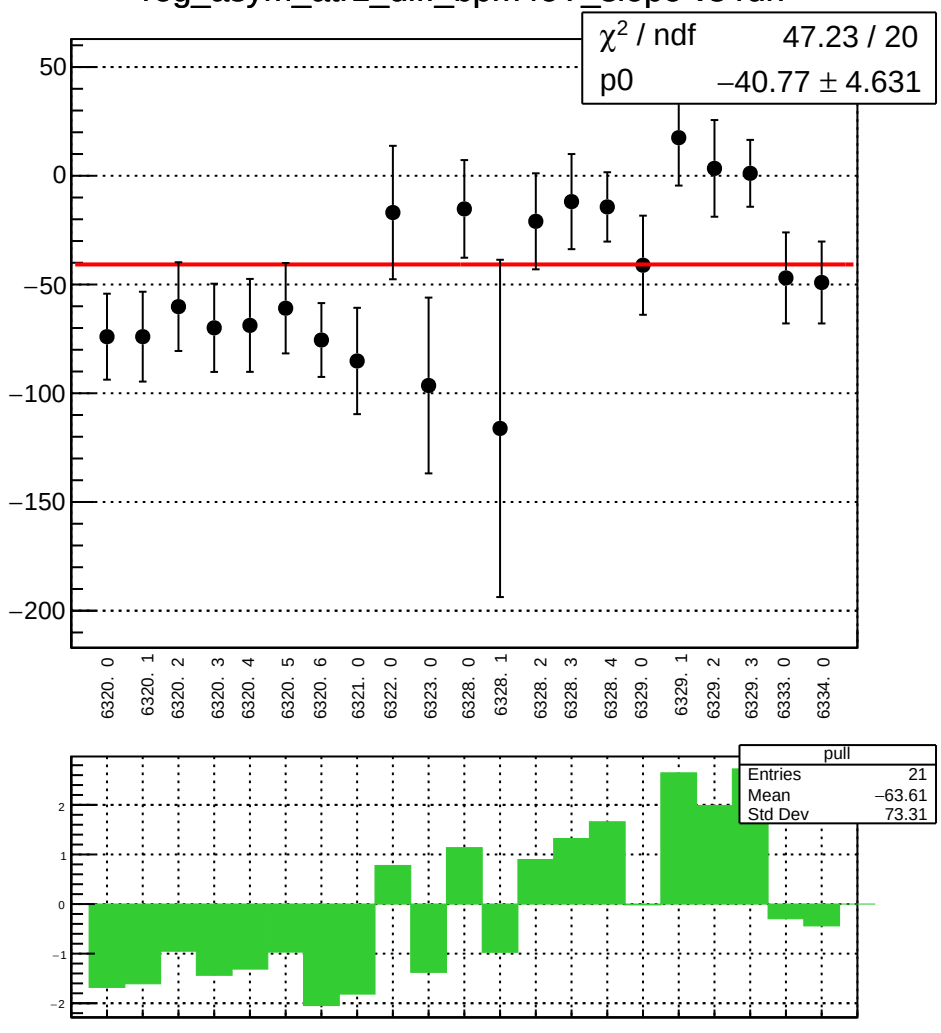

pull1D
Entries 21
Mean 0.4662
Std Dev 3.714
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

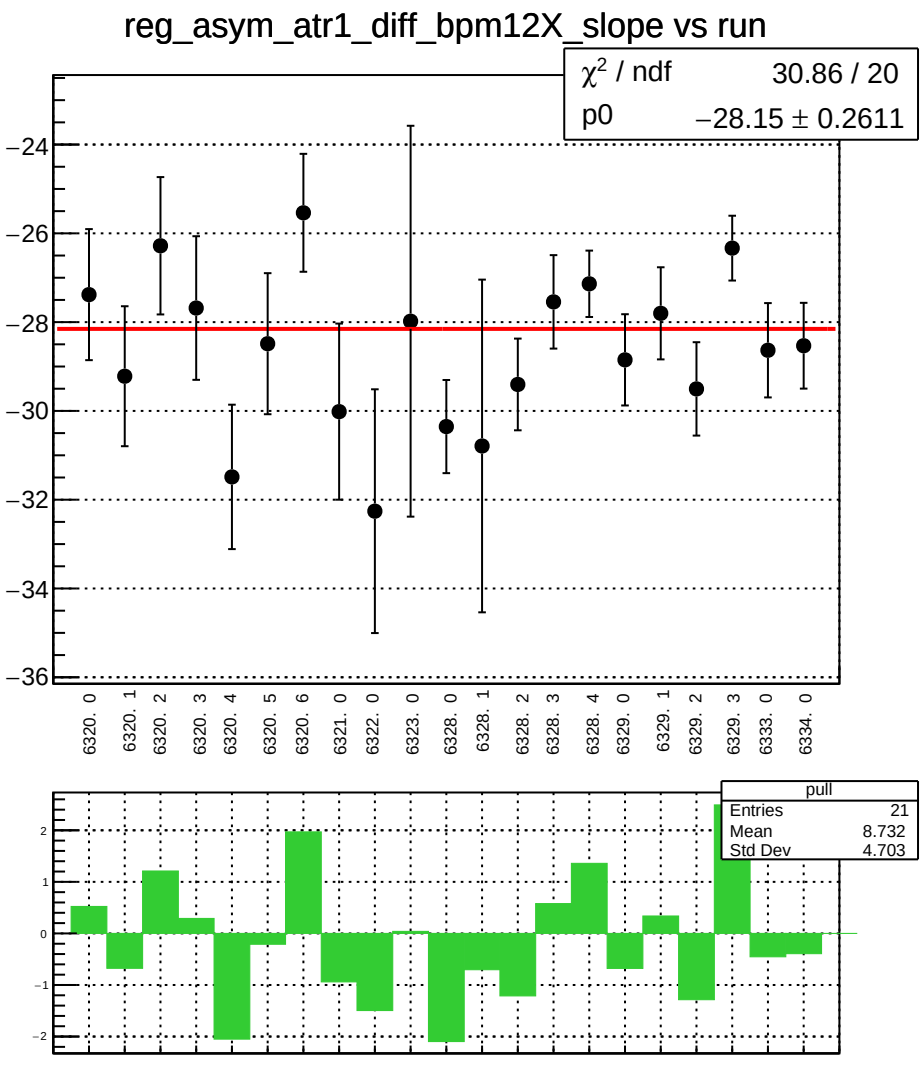

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 33.79 / 20
p0 −128.9 ± 8.94
200
100
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −258.4
Std Dev 267.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

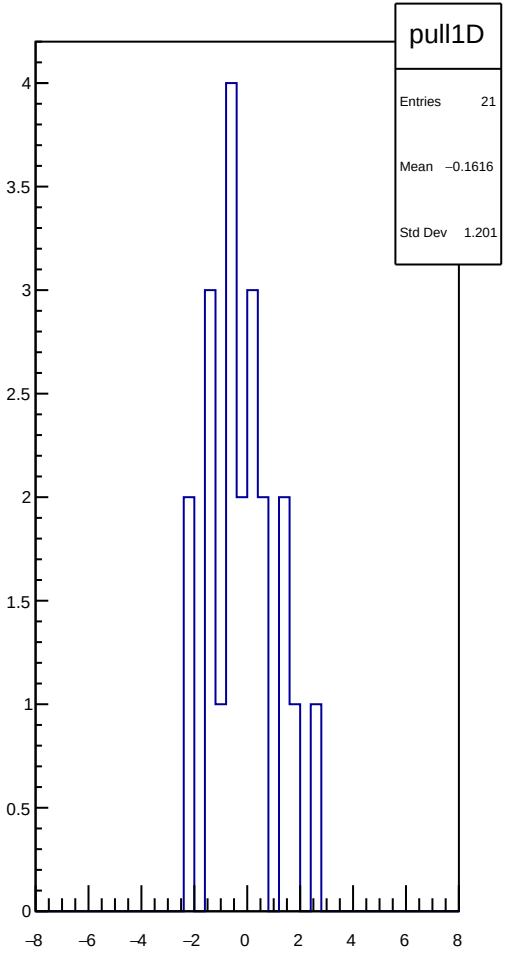

pull1D
Entries 21
Mean −0.01355
Std Dev 1.268
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

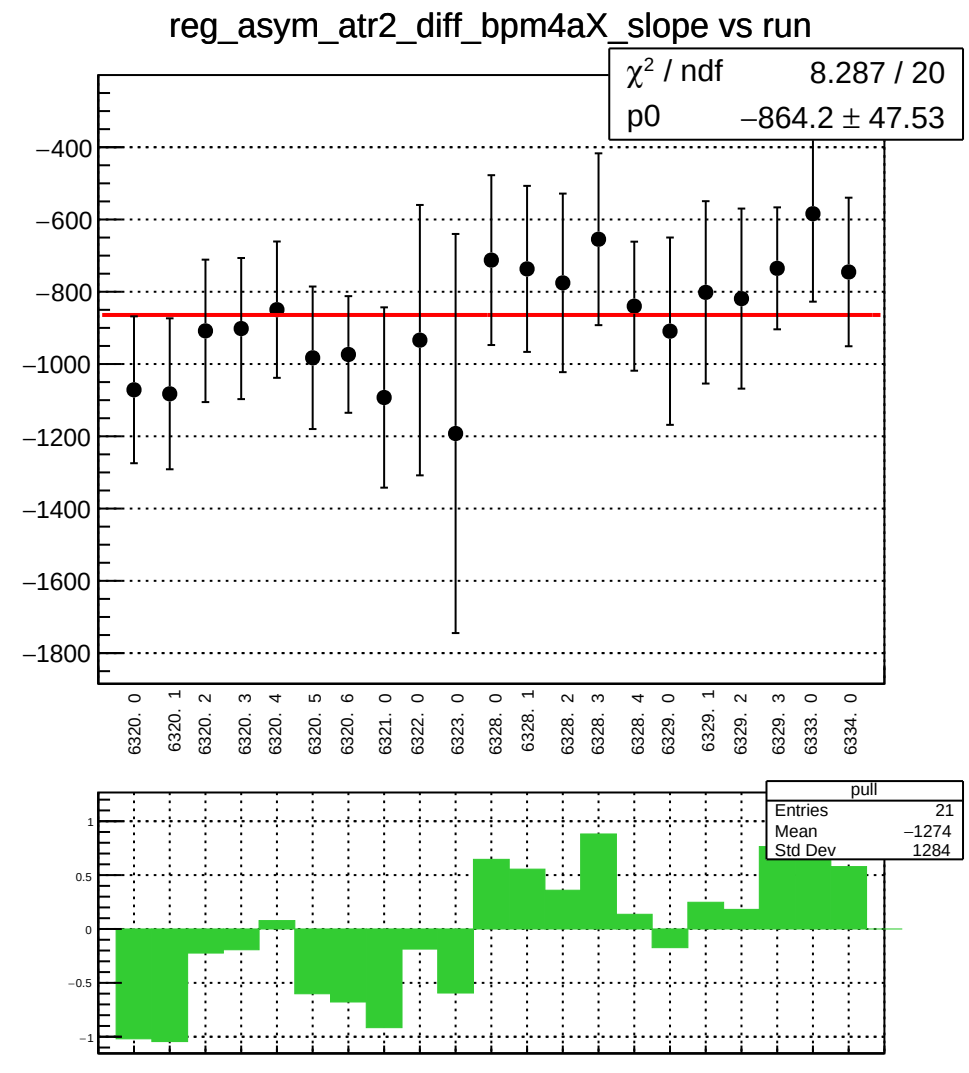

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 24.43 / 20
p0 24.74 ± 3.985
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 644.5
Std Dev 634.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean −0.006854
Std Dev 1.079
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

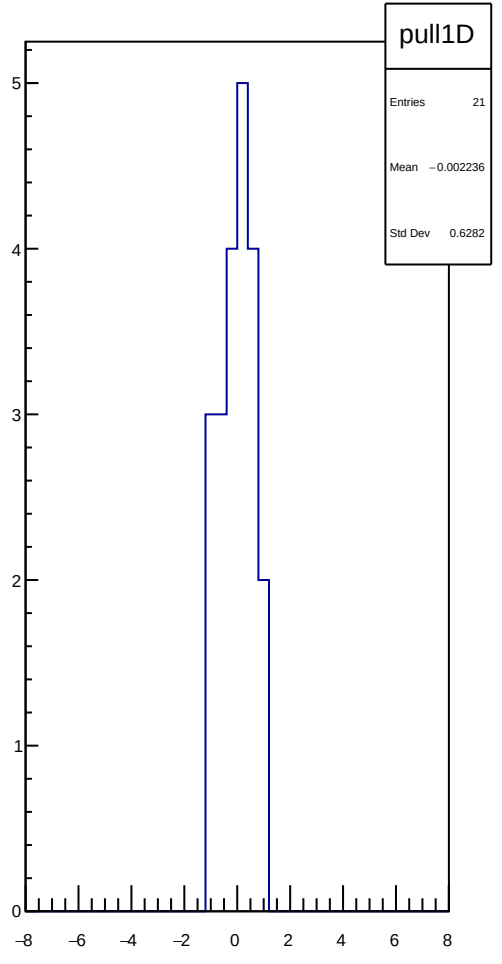

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 33.91 / 20
p0 82.84 ± 9.702
400
300
200
100
0
−100
−200
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2570
Std Dev 2561
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 21
Mean −0.00138
Std Dev 1.271
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

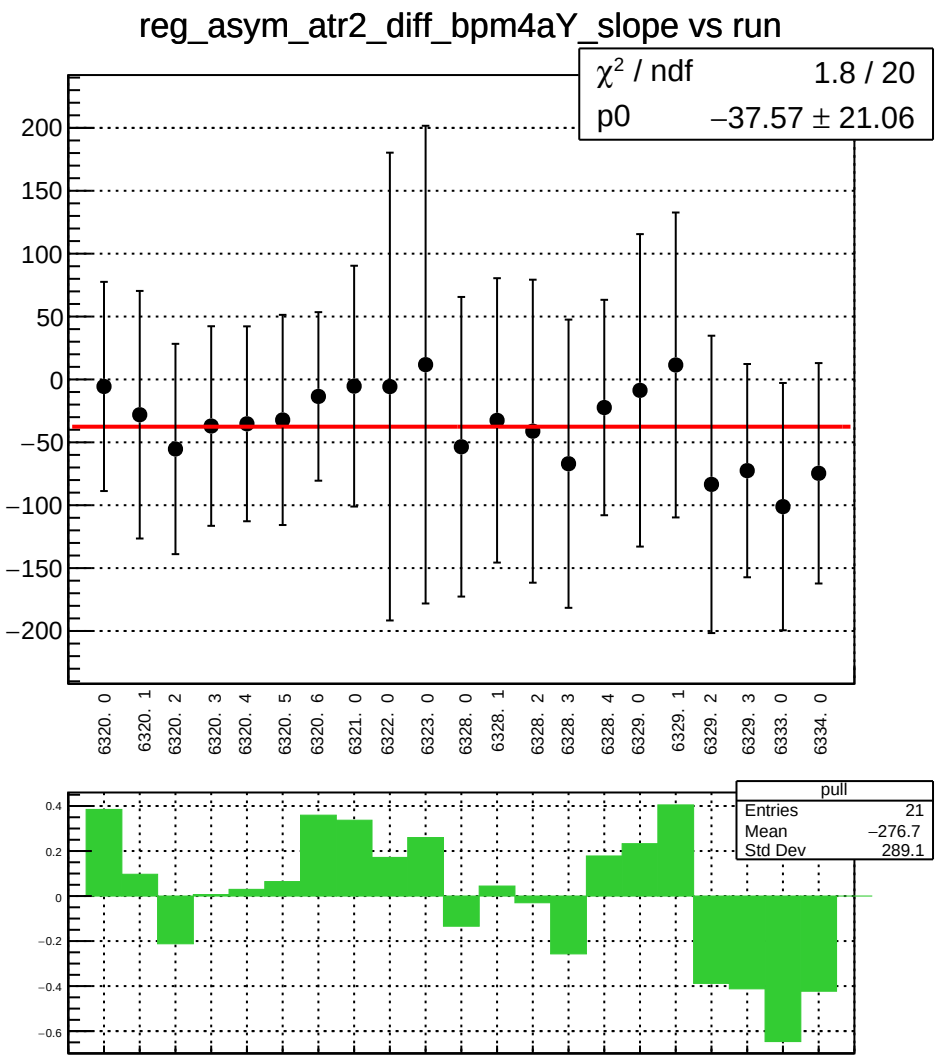

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 47.23 / 20
p0 −40.77 ± 4.631
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −63.61
Std Dev 73.31
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.08415
Std Dev 1.497
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

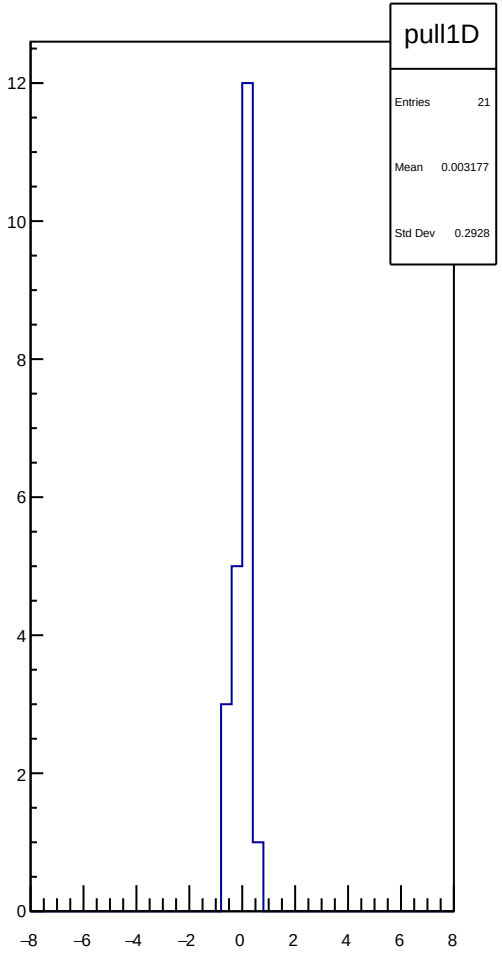

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 30.86 / 20
p0 −28.15 ± 0.2611
−24
−26
−28
−30
−32
−34
−36
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 8.732
Std Dev 4.703
2
1
0
−1
−2

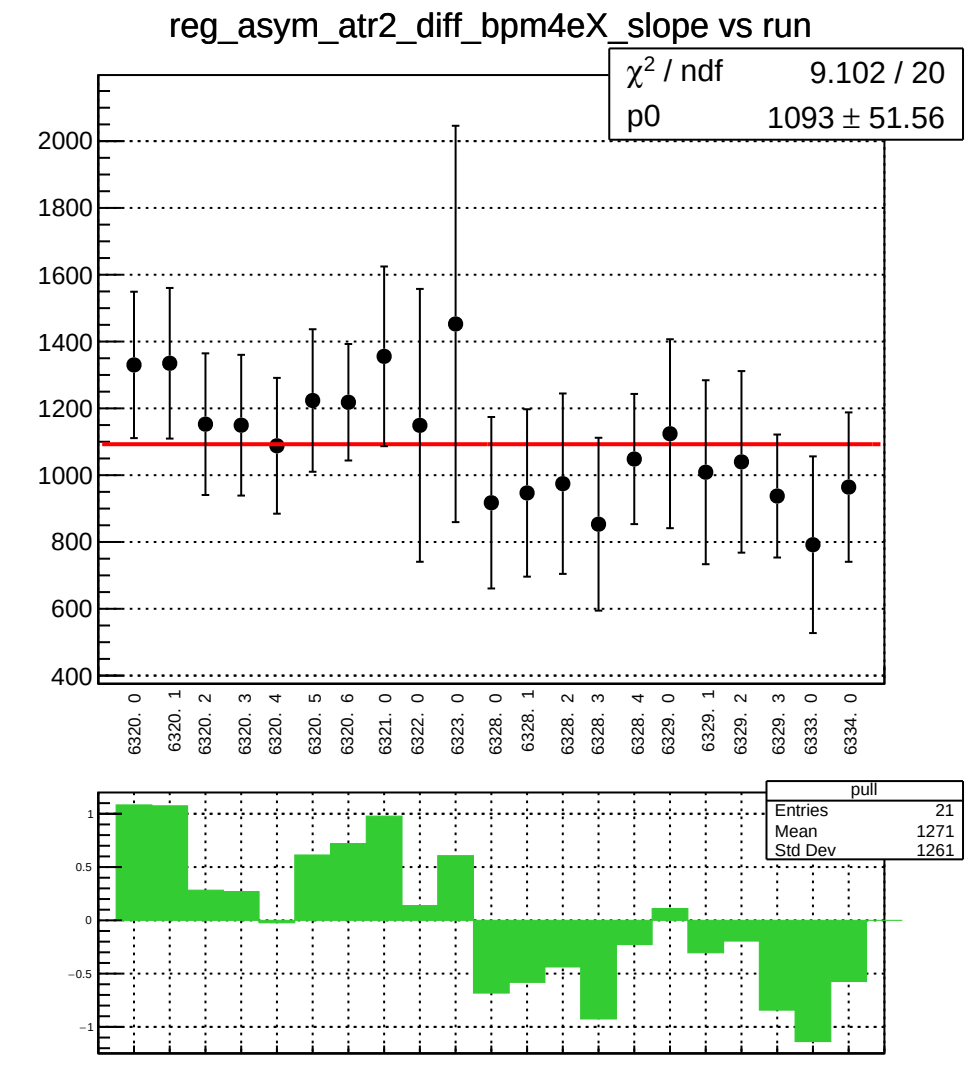

pull1D
Entries 21
Mean −0.1616
Std Dev 1.201
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

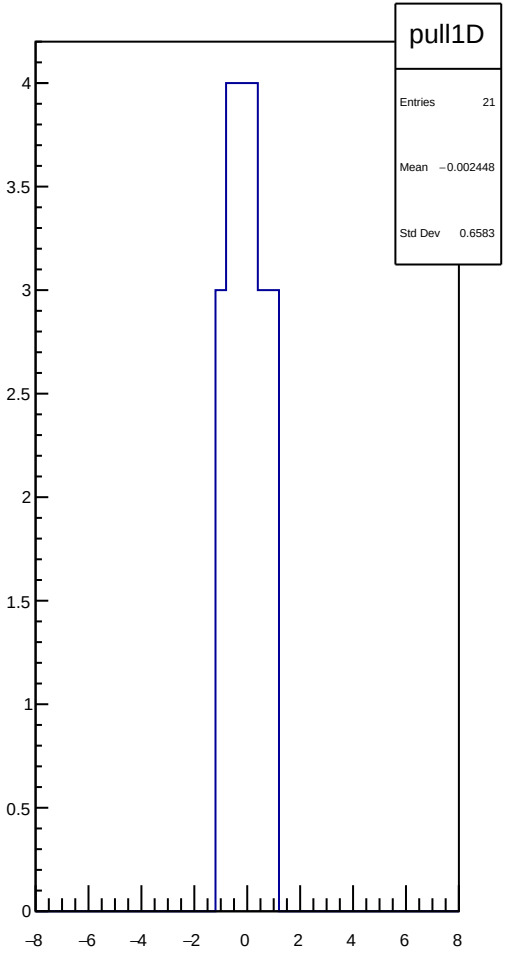

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 8.287 / 20
p0 −864.2 ± 47.53
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1274
Std Dev 1284
1
0.5
0
−0.5
−1

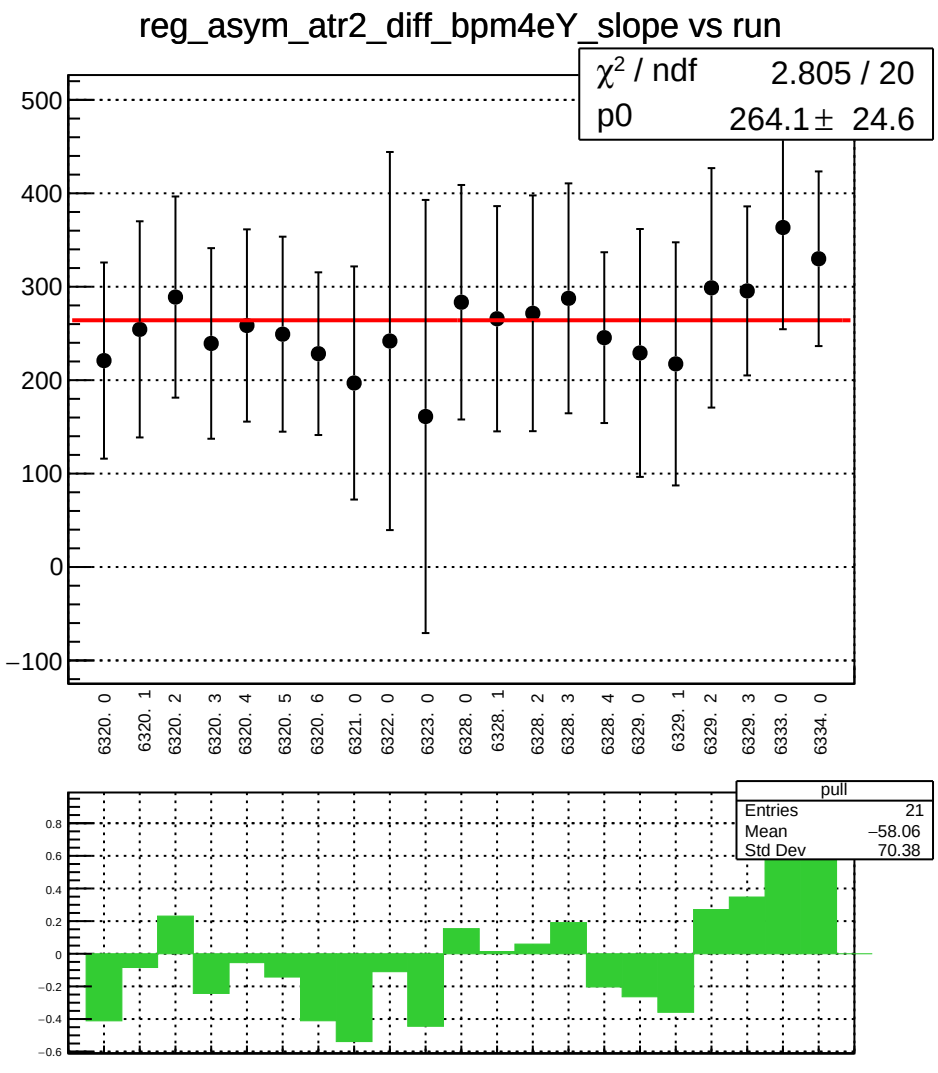

pull1D
Entries 21
Mean −0.002236
Std Dev 0.6282
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

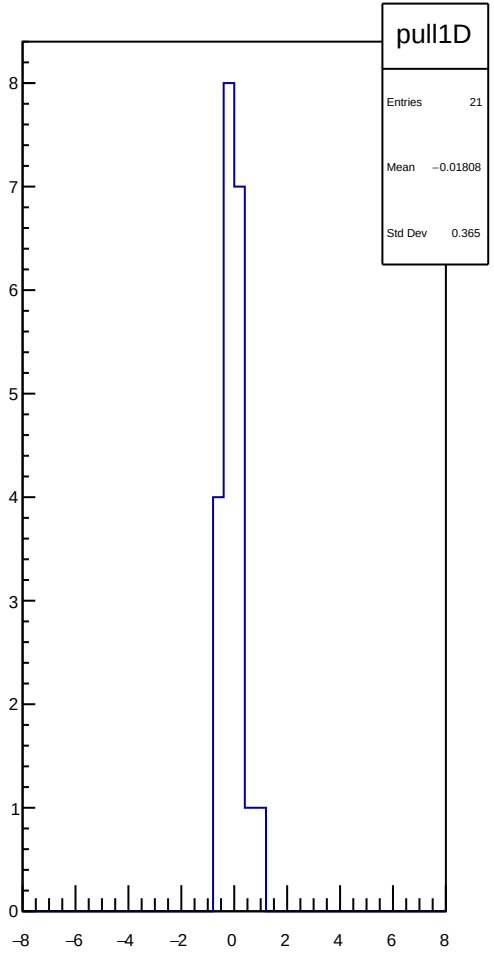

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.8 / 20
p0 −37.57 ± 21.06
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −276.7
Std Dev 289.1
0.4
0.2
0
−0.2
−0.4
−0.6

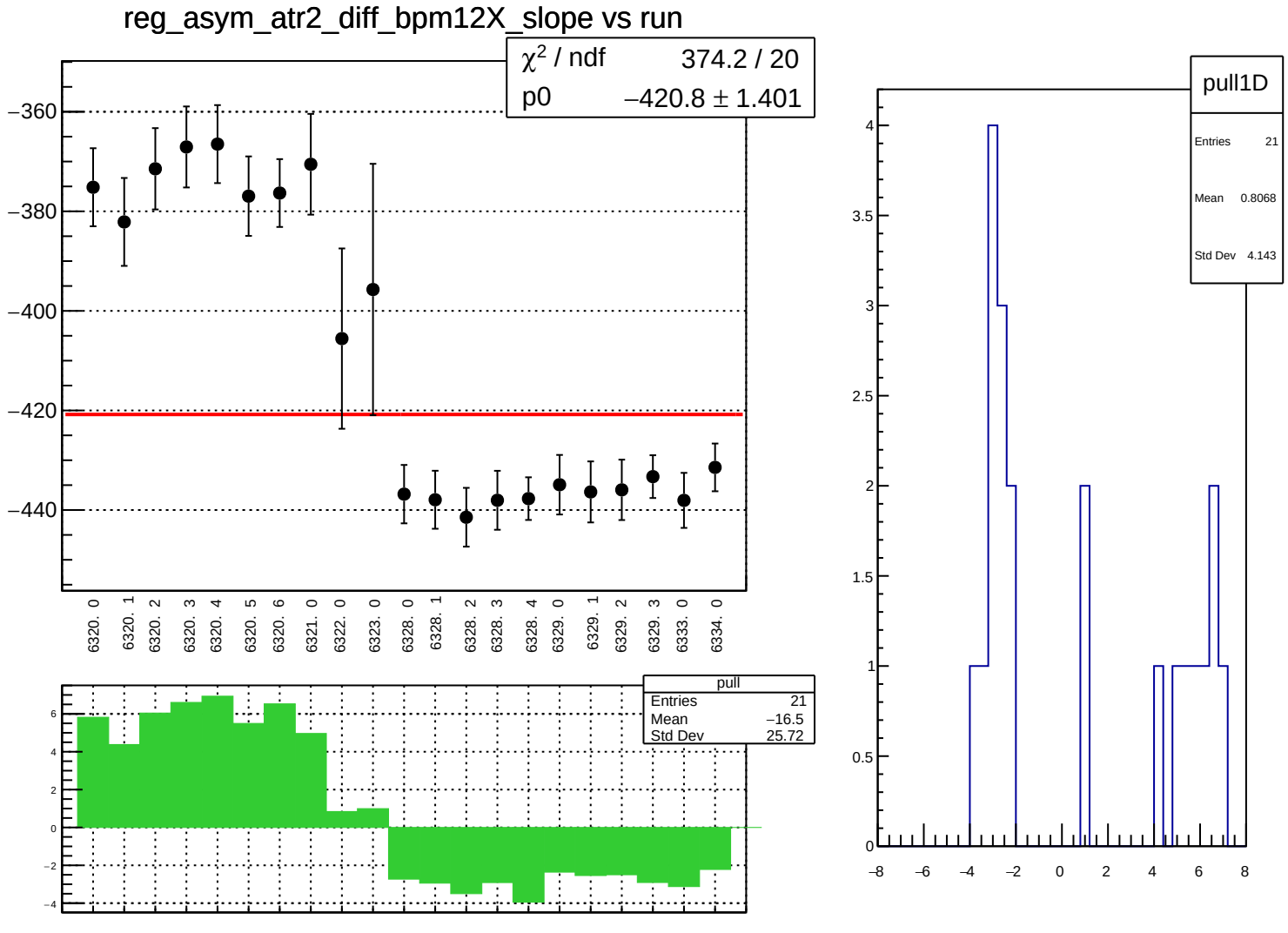

pull1D
Entries 21
Mean 0.003177
Std Dev 0.2928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

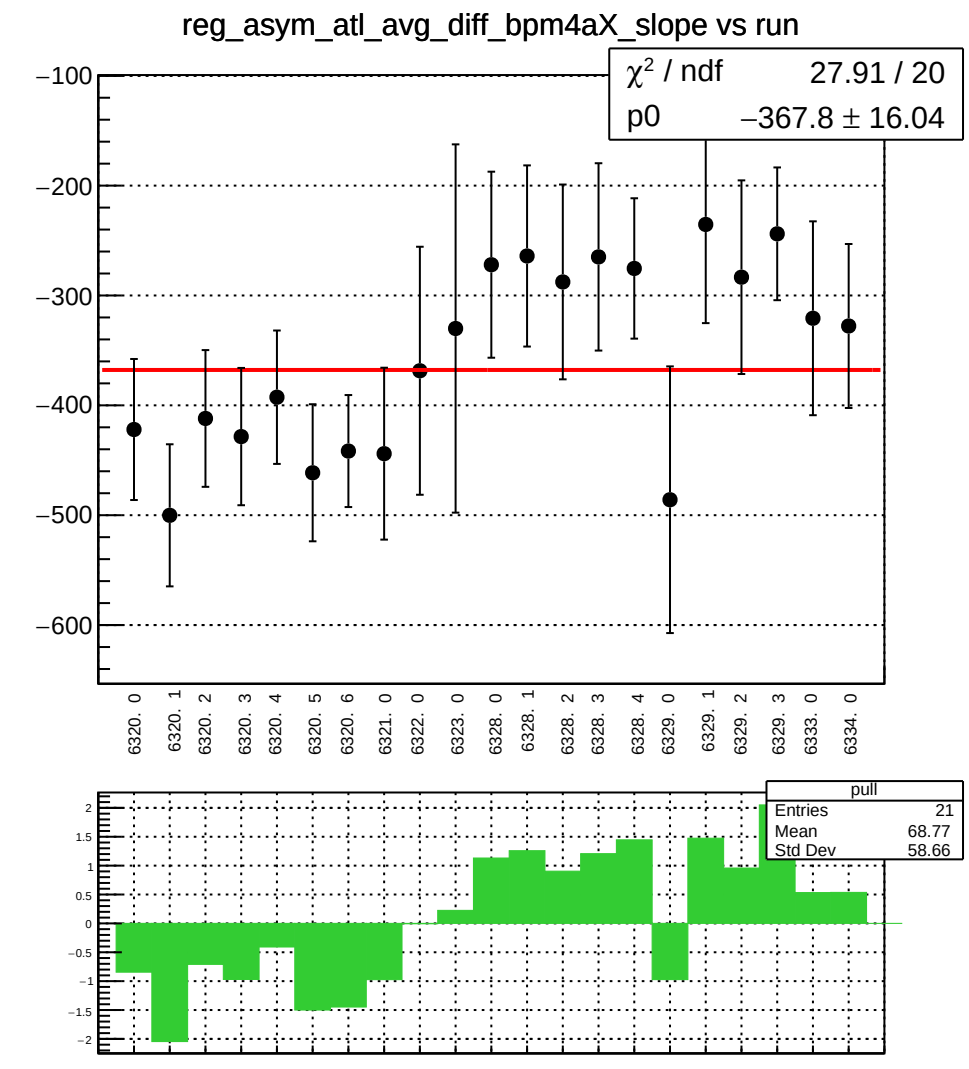

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 9.102 / 20
p0 1093 ± 51.56
2000
1800
1600
1400
1200
1000
800
600
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 1271
Std Dev 1261
1
0.5
0
−0.5
−1

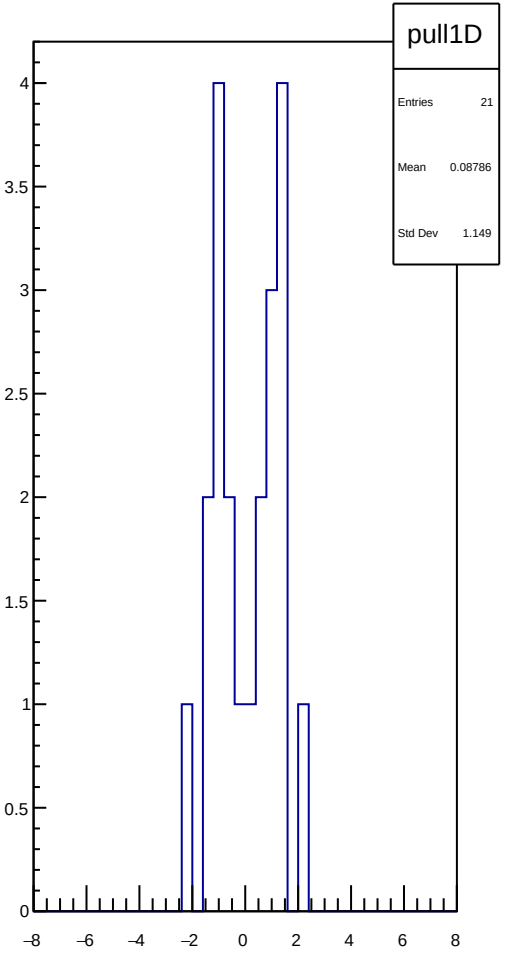

pull1D
Entries 21
Mean −0.002448
Std Dev 0.6583
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

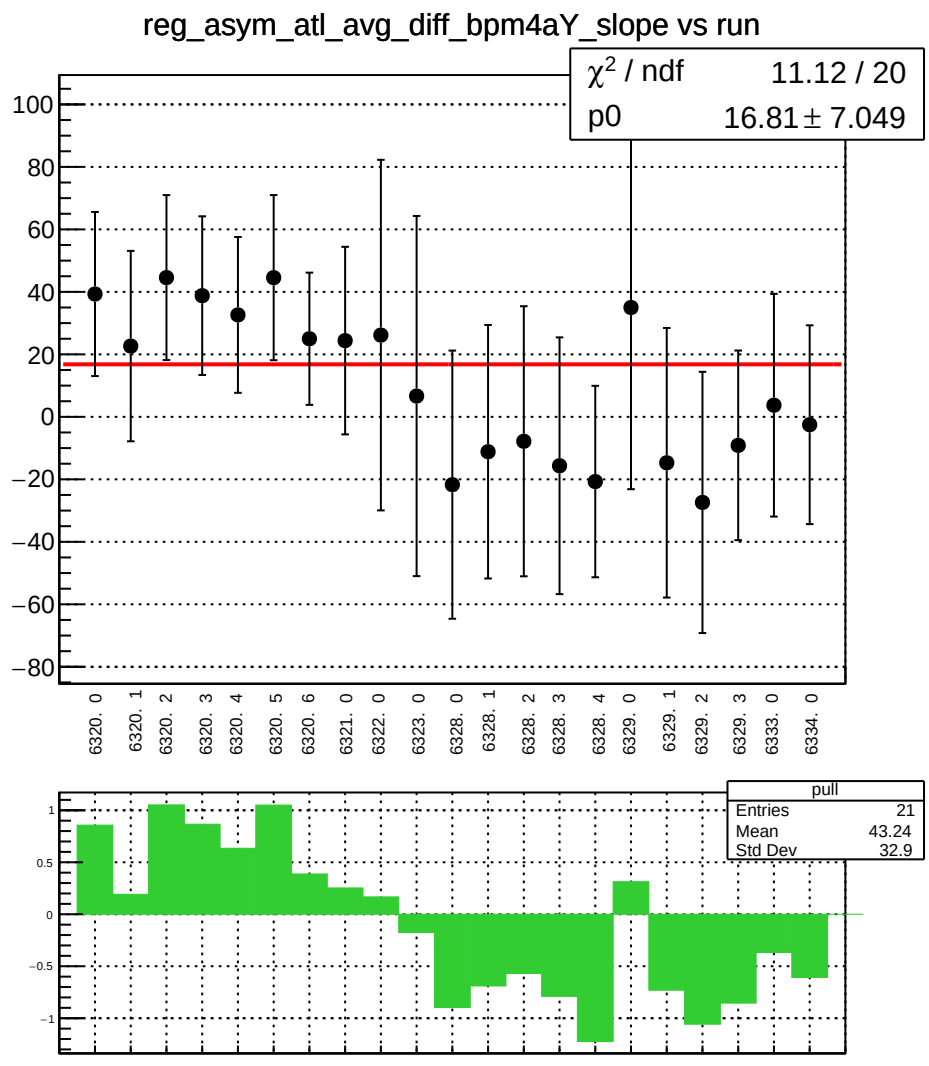

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.805 / 20
p0 264.1 ± 24.6
500
400
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −58.06
Std Dev 70.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

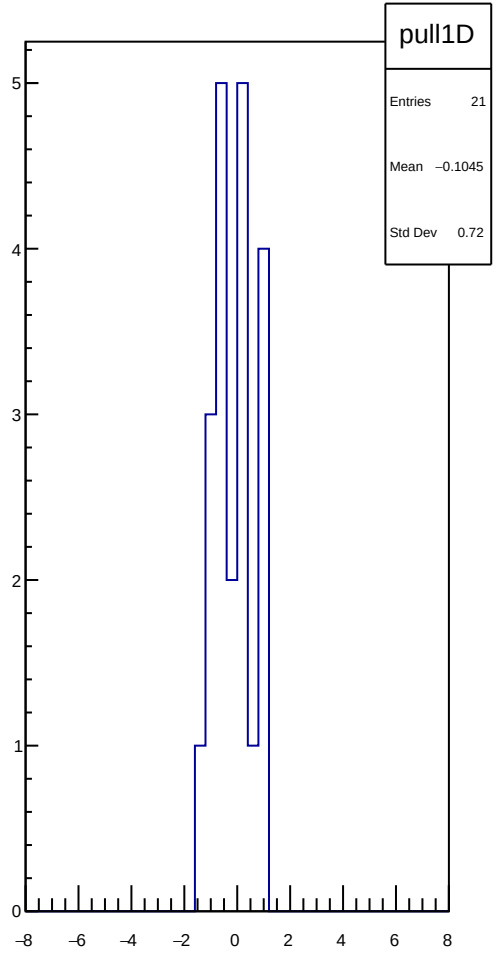

pull1D
Entries 21
Mean −0.01808
Std Dev 0.365
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

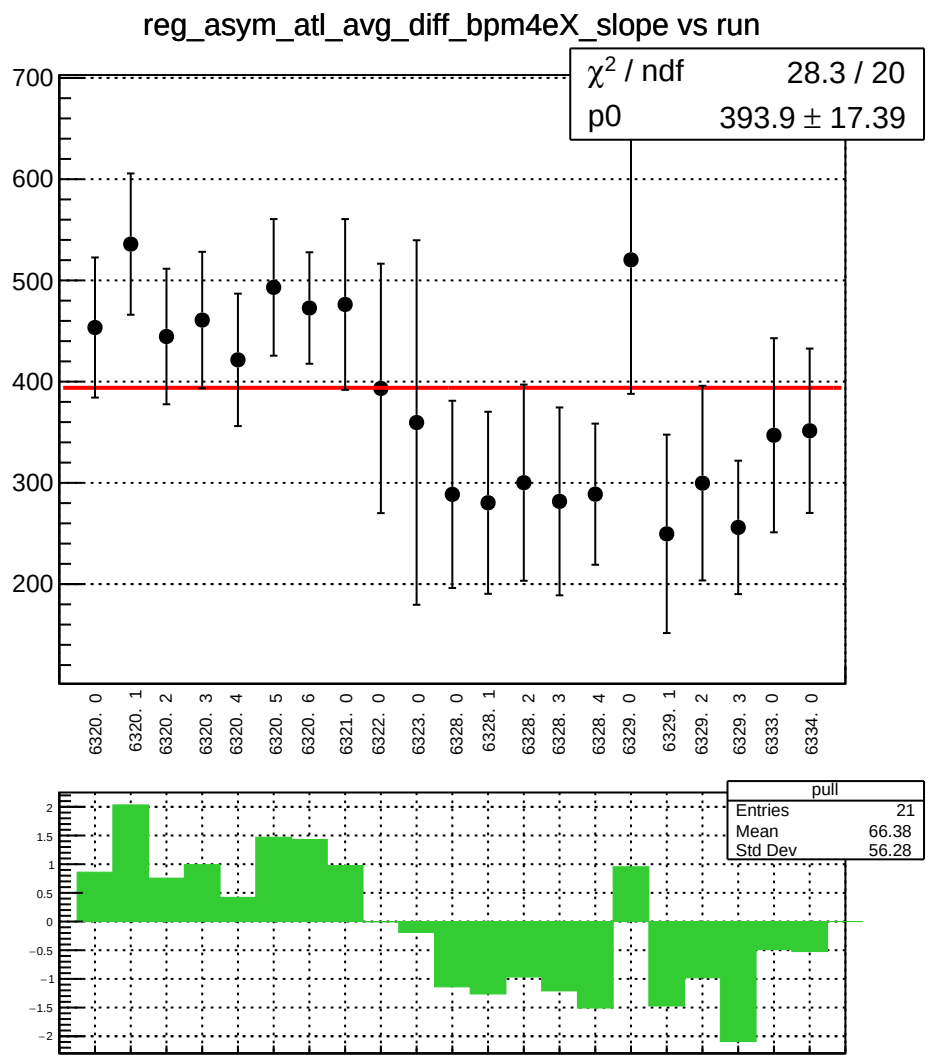

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 374.2 / 20
p0 −420.8 ± 1.401
−360
−380
−400
−420
−440
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.5
Std Dev 25.72
6
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.8068
Std Dev 4.143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

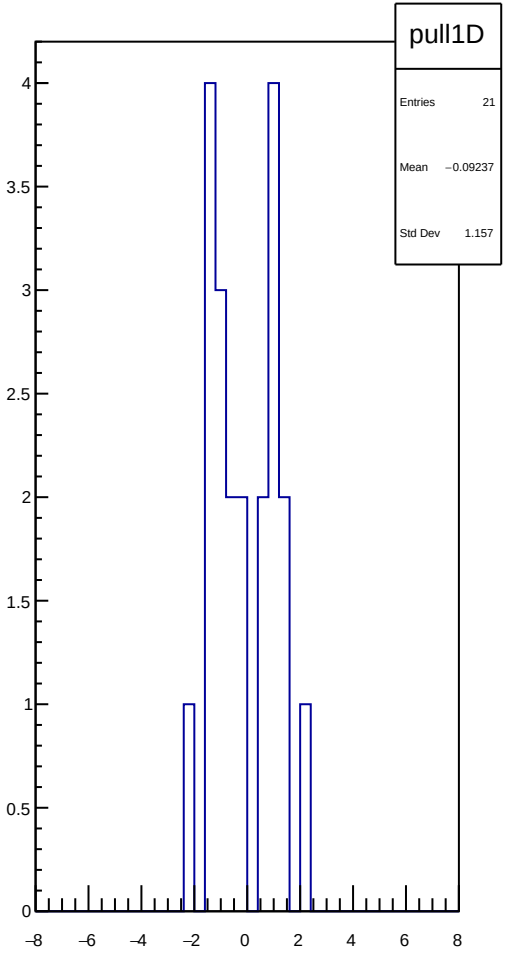

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.91 / 20
p0 −367.8 ± 16.04
−100
−200
−300
−400
−500
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 68.77
Std Dev 58.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

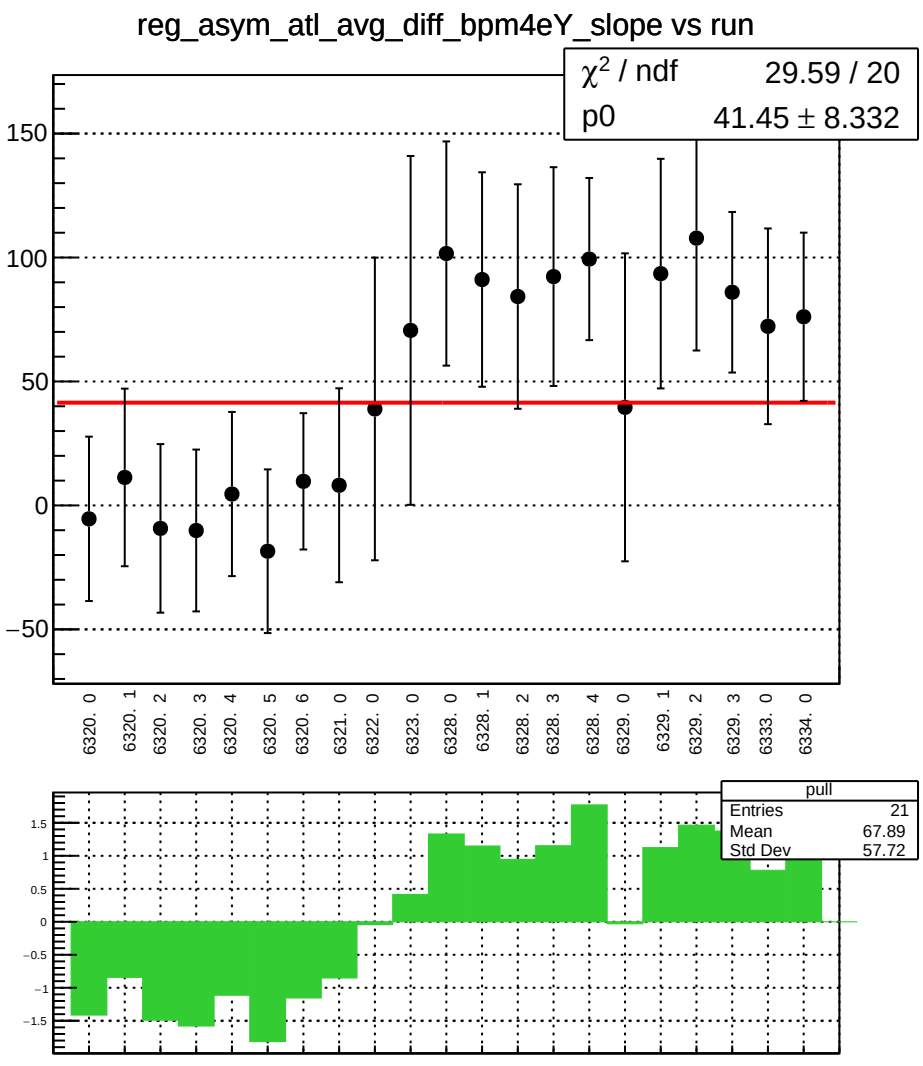

pull1D
Entries 21
Mean 0.08786
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

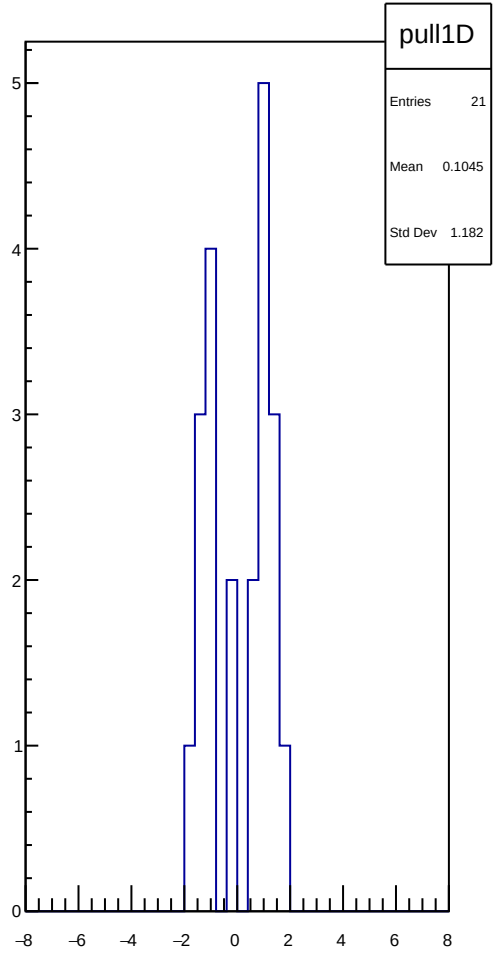

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 20
p0 16.81 ± 7.049
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 43.24
Std Dev 32.9
1
0.5
0
−0.5
−1

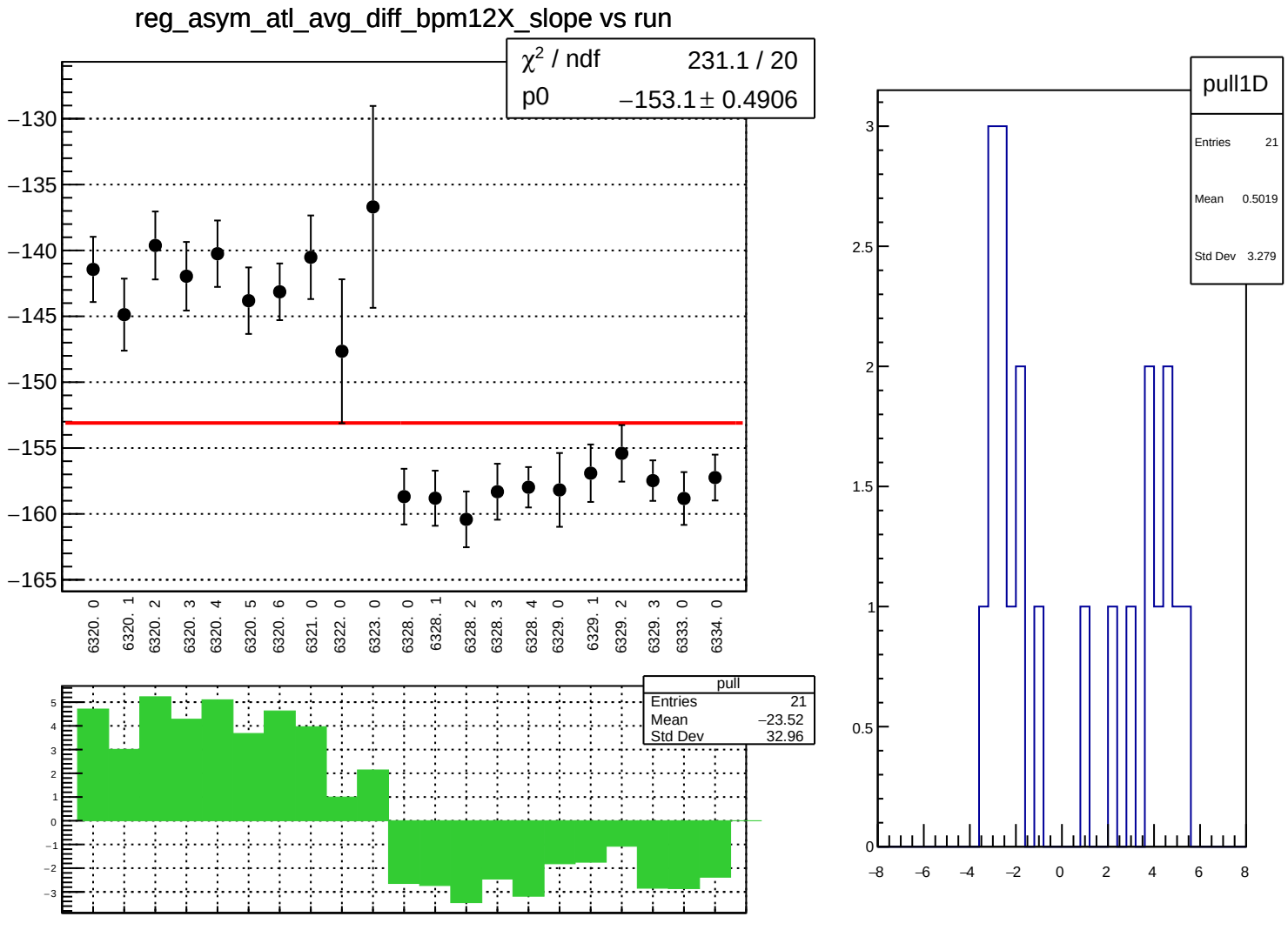

pull1D
Entries 21
Mean −0.1045
Std Dev 0.72
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

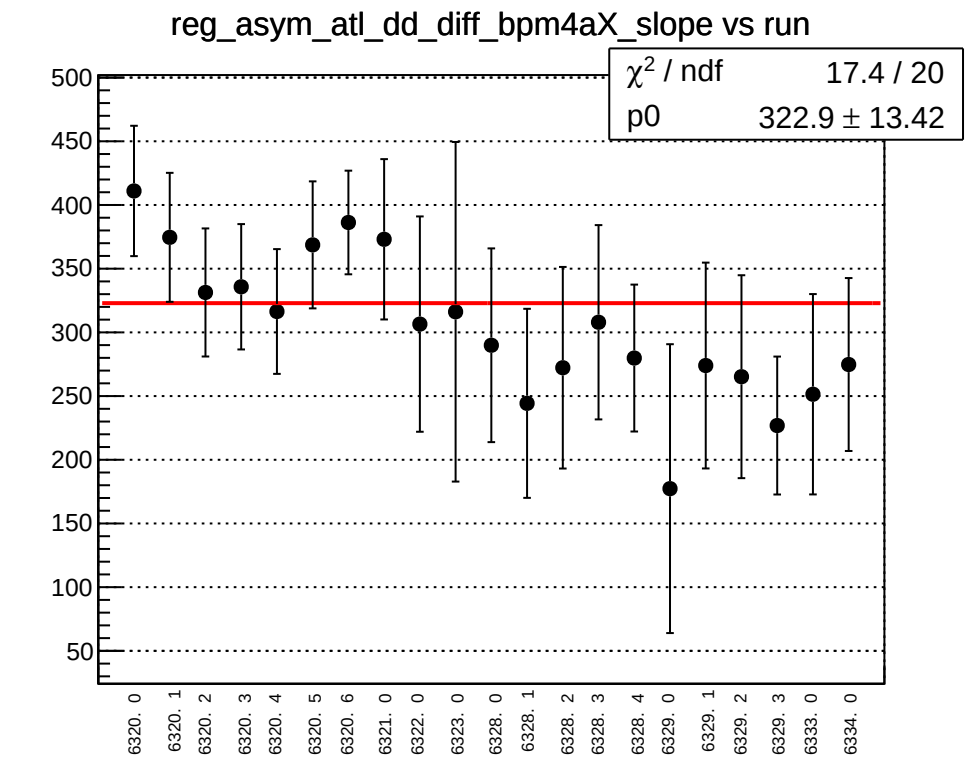

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.3 / 20
p0 393.9 ± 17.39
700
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 66.38
Std Dev 56.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

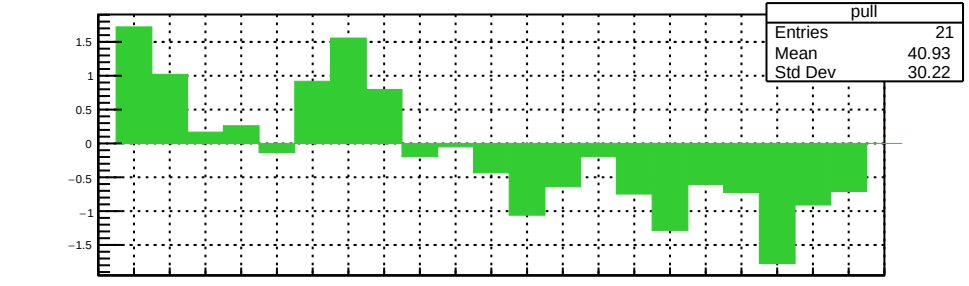

pull1D
Entries 21
Mean −0.09237
Std Dev 1.157
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

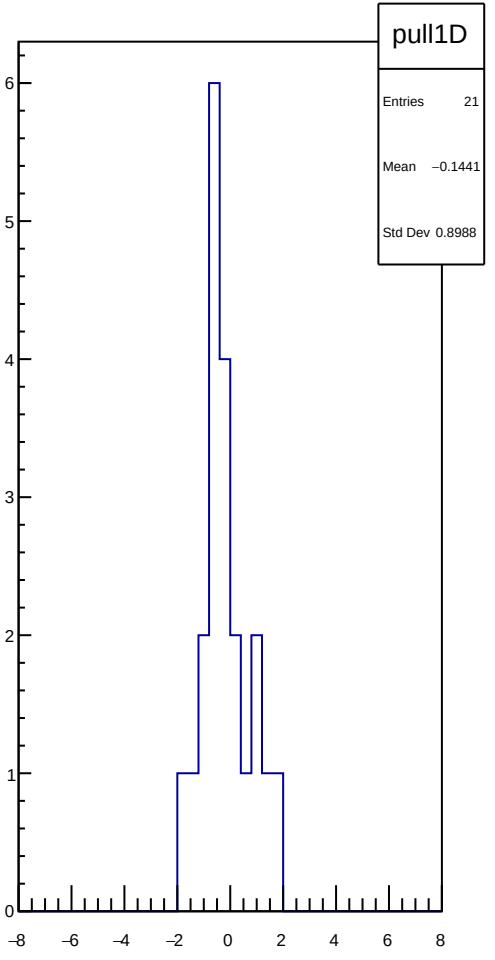

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.59 / 20
p0 41.45 ± 8.332
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 67.89
Std Dev 57.72
1.5
1
0.5
0
−0.5
−1
−1.5

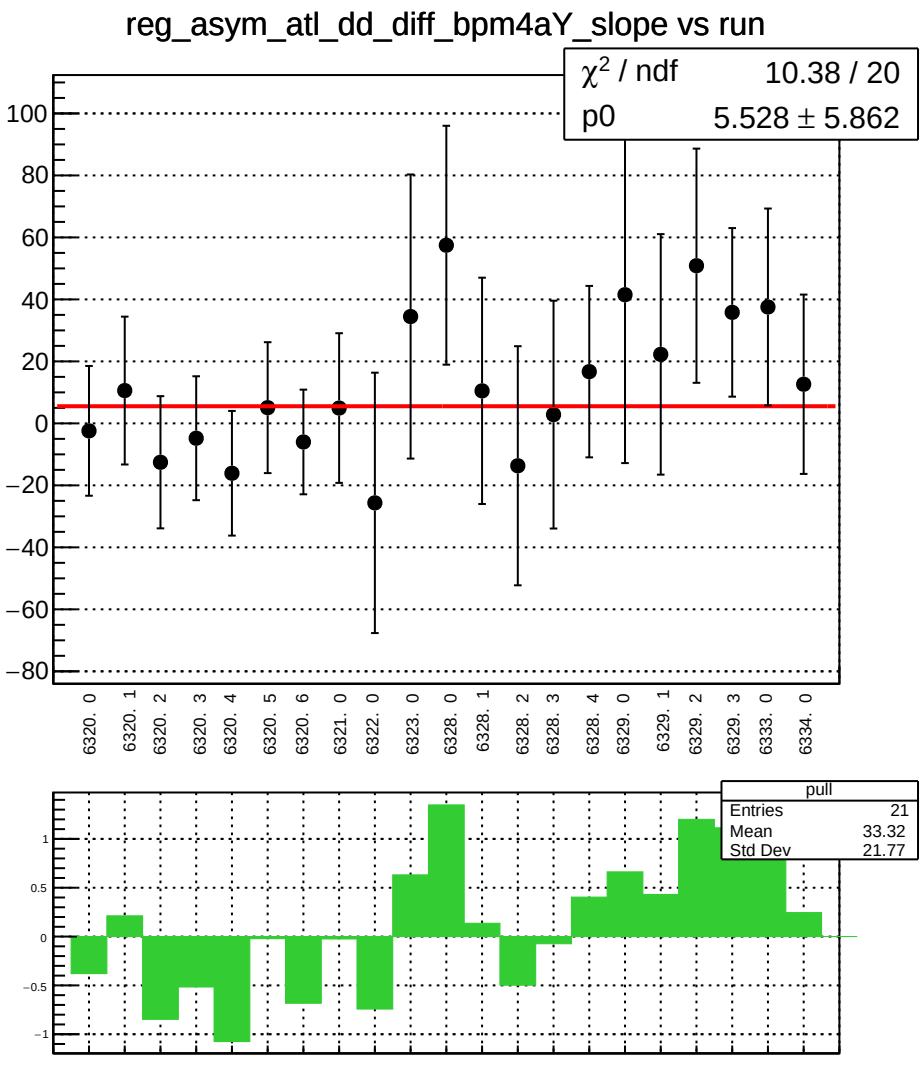

pull1D
Entries 21
Mean 0.1045
Std Dev 1.182
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

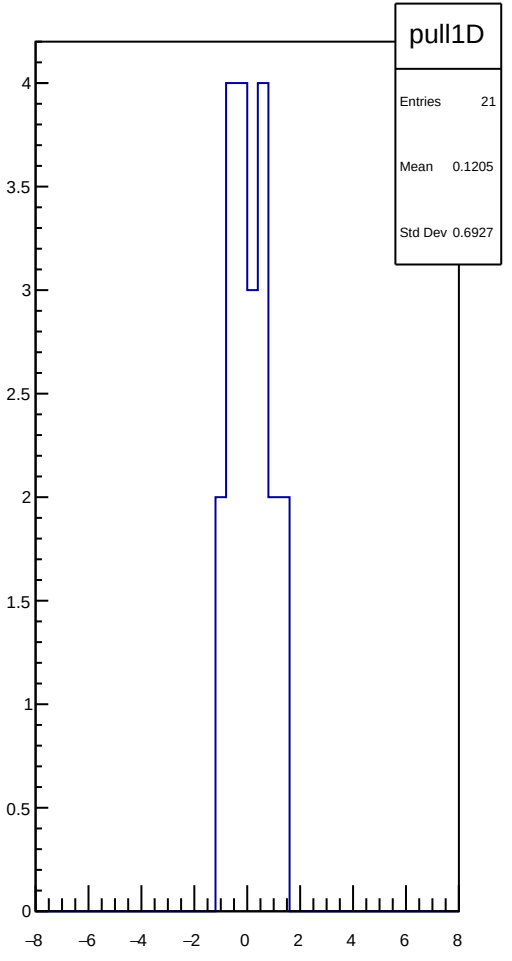

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 231.1 / 20
p0 −153.1 ± 0.4906
−130
−135
−140
−145
−150
−155
−160
−165
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −23.52
Std Dev 32.96
pull1D
Entries 21
Mean 0.5019
Std Dev 3.279

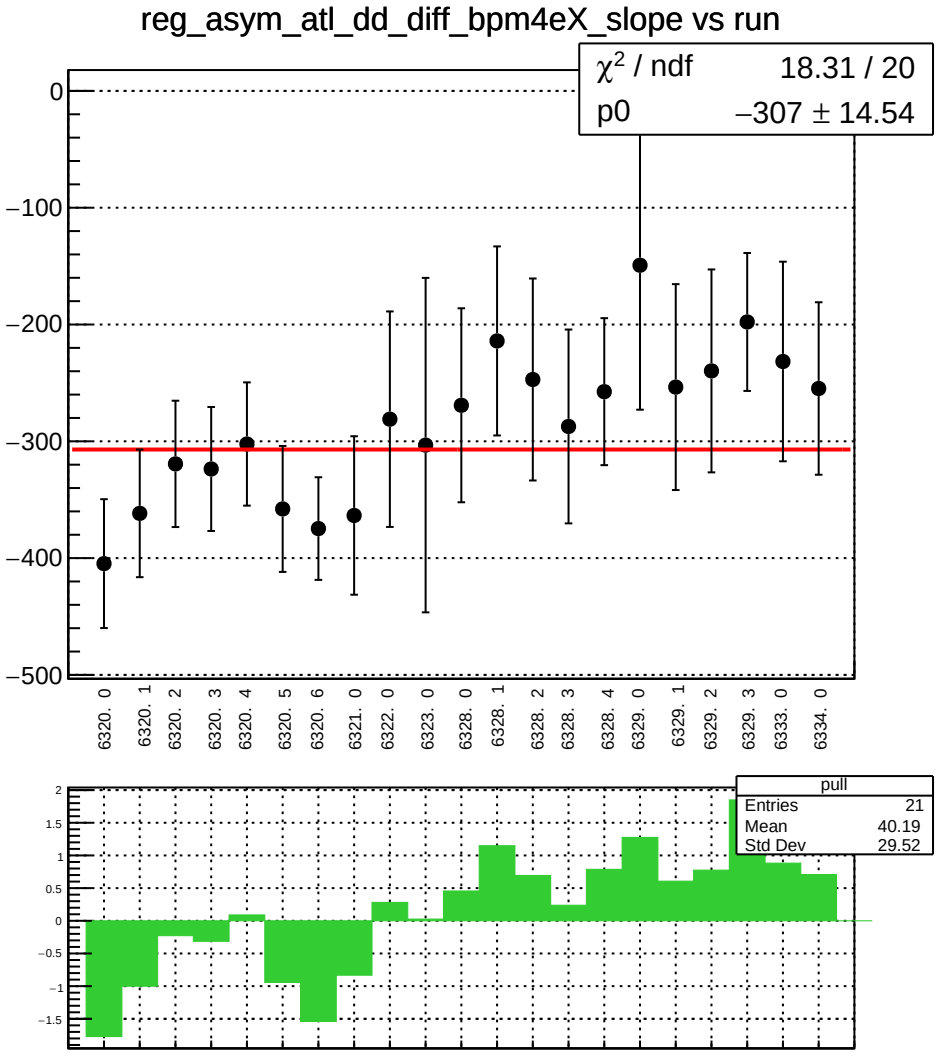

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.4 / 20
p0 322.9 ± 13.42
500
450
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

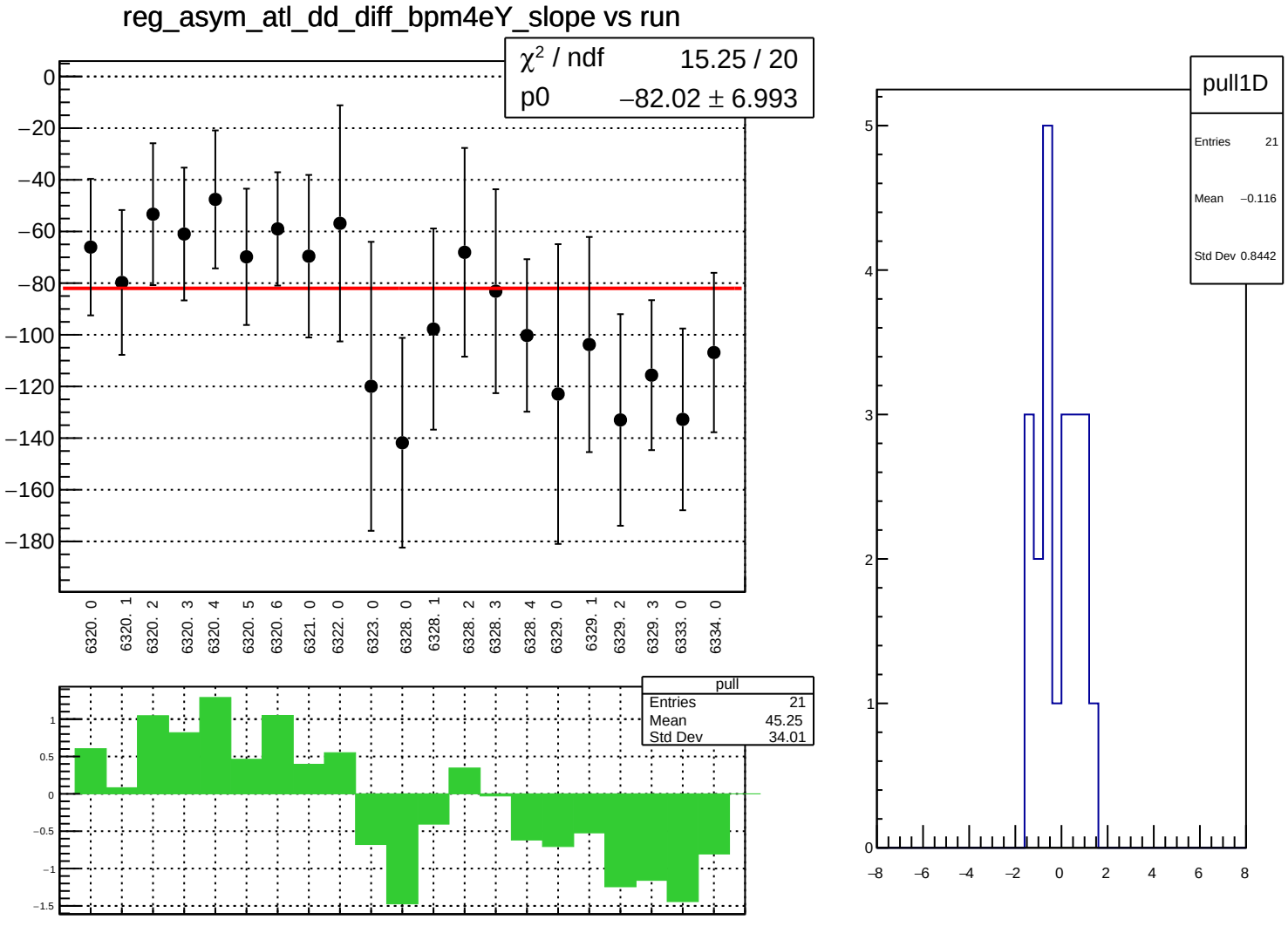

pull
Entries 21
Mean 40.93
Std Dev 30.22
1.5
1
0.5
0
−0.5
−1
−1.5

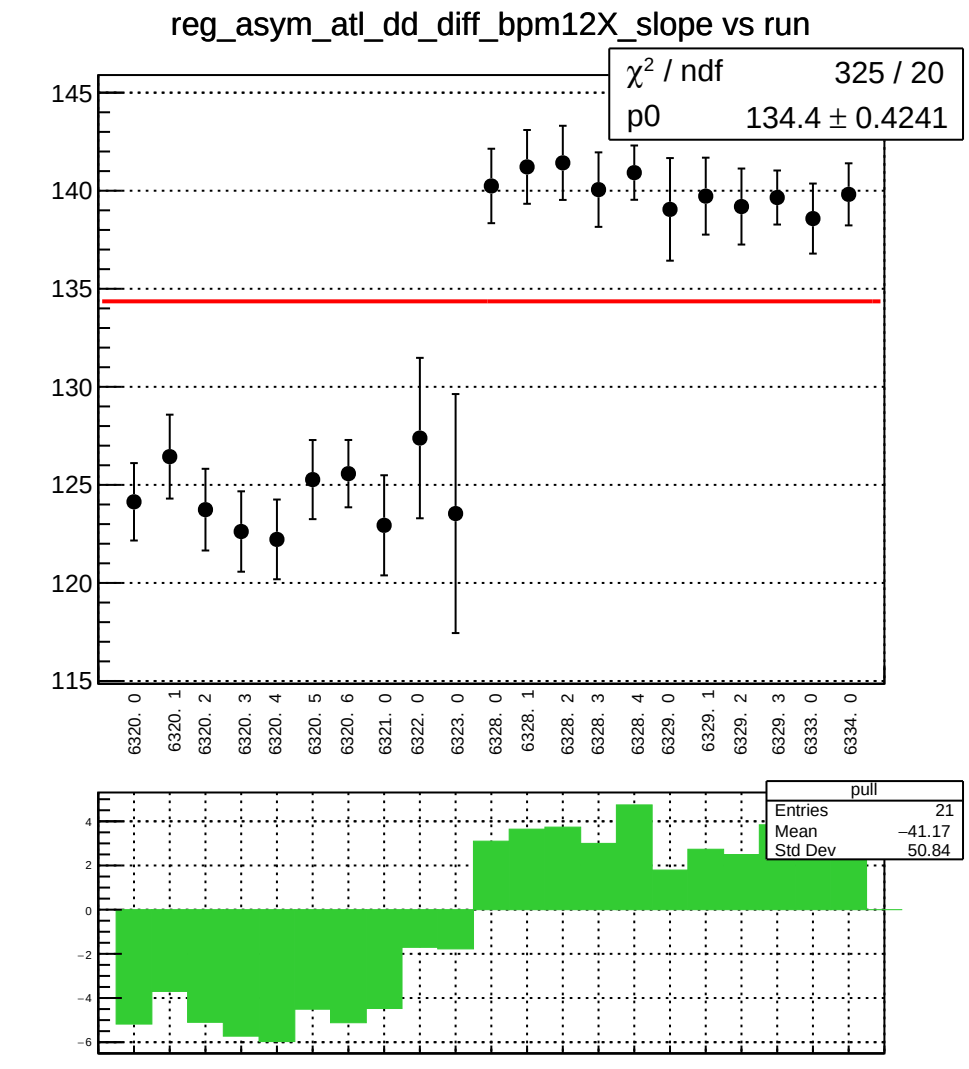

pull1D
Entries 21
Mean −0.1441
Std Dev 0.8988
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

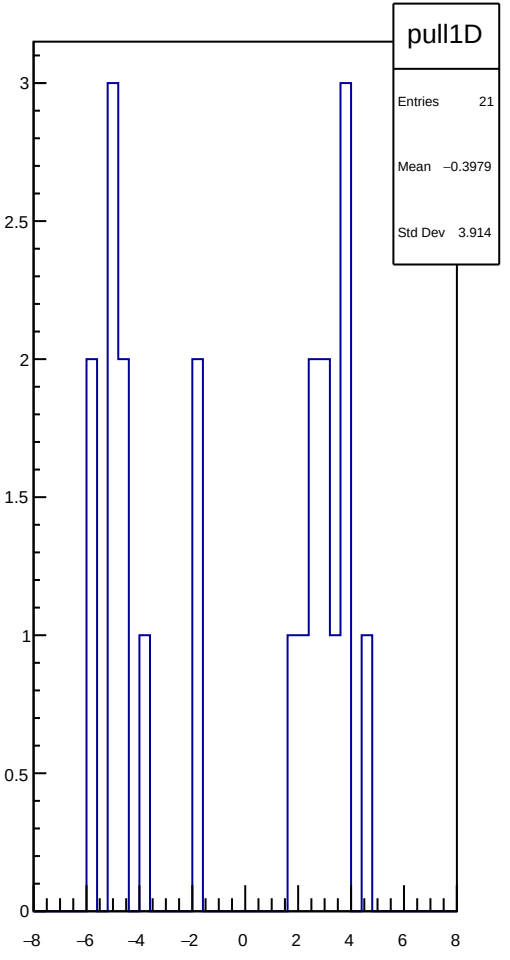

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.38 / 20
p0 5.528 ± 5.862
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 33.32
Std Dev 21.77
1
0.5
0
−0.5
−1

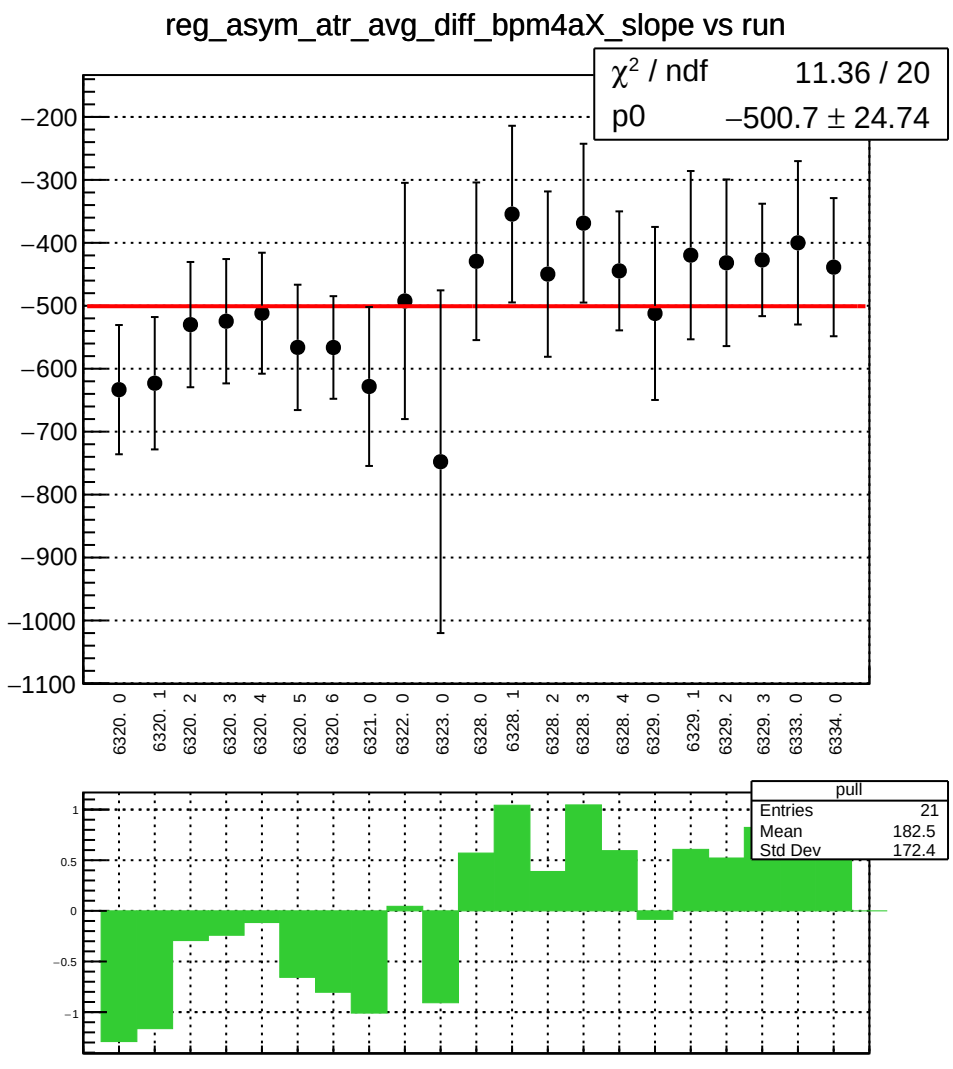

pull1D
Entries 21
Mean 0.1205
Std Dev 0.6927
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

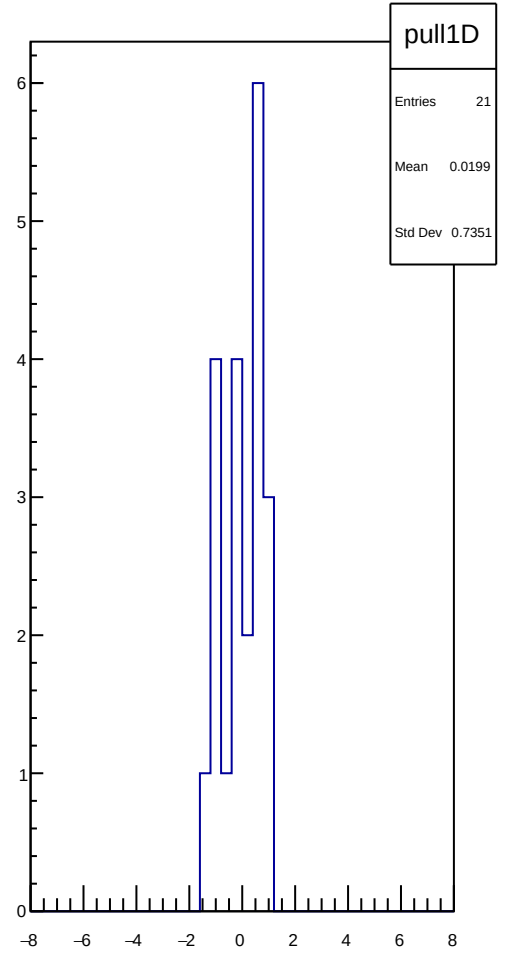

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.31 / 20
p0 −307 ± 14.54
0
−100
−200
−300
−400
−500
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.19
Std Dev 29.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.1518
Std Dev 0.9214
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

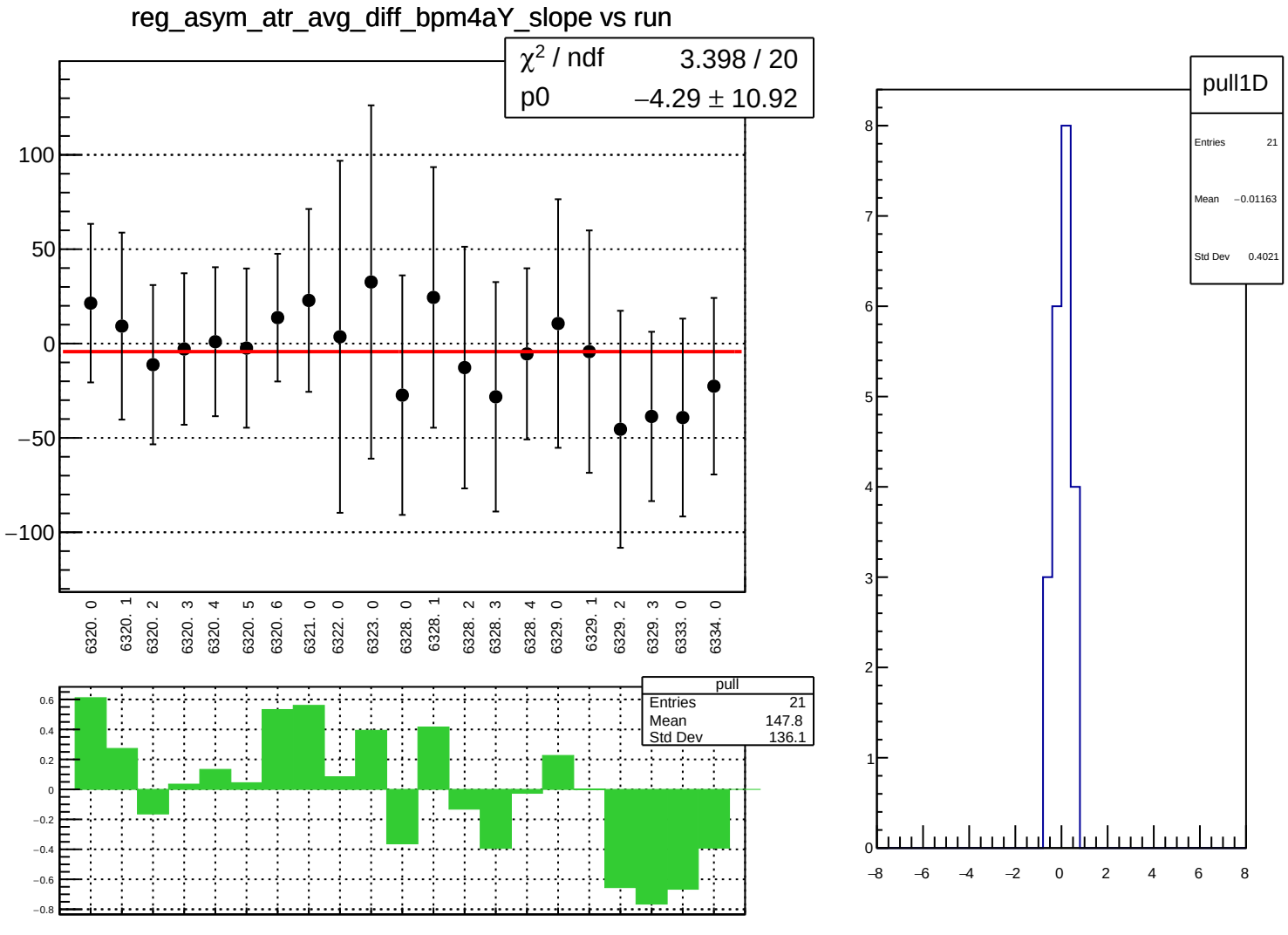

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.25 / 20
p0 −82.02 ± 6.993
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 45.25
Std Dev 34.01
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.116
Std Dev 0.8442
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

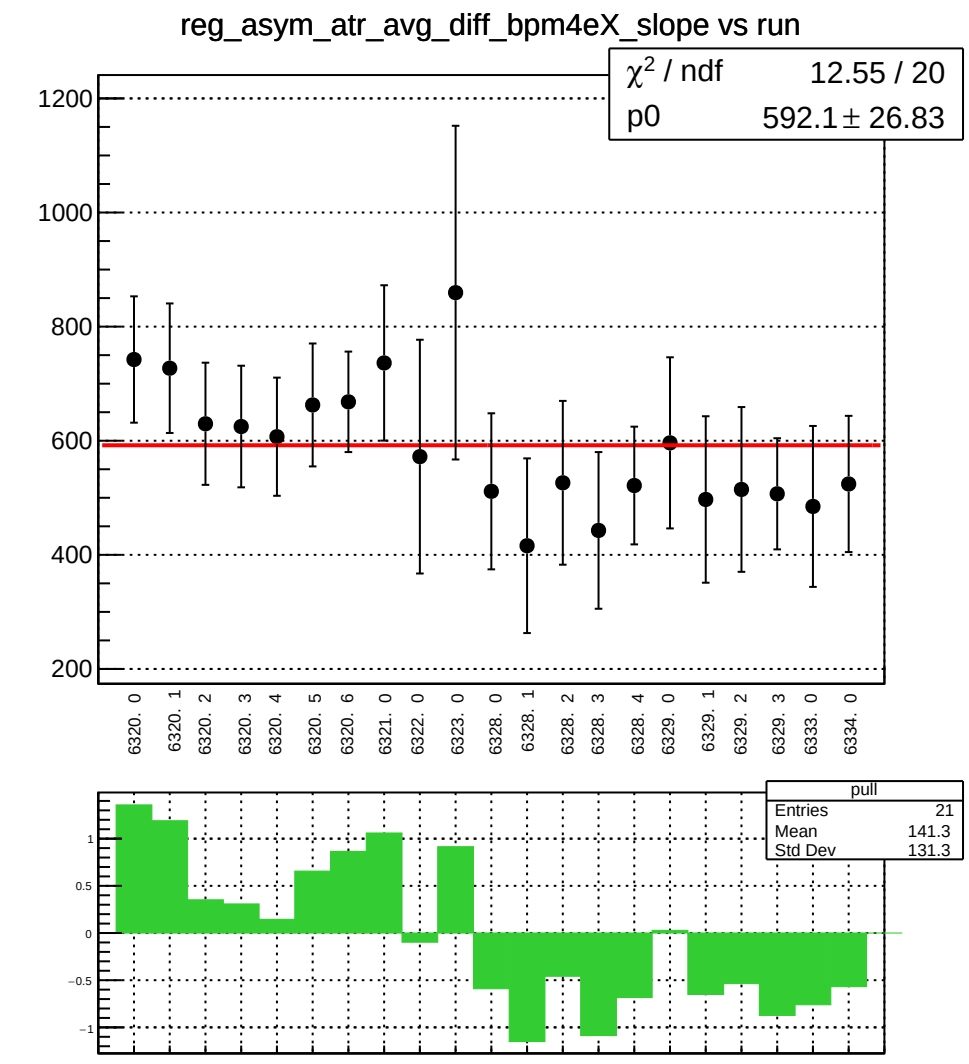

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 325 / 20
p0 134.4 ± 0.4241
145
140
135
130
125
120
115
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −41.17
Std Dev 50.84
4
2
0
−2
−4
−6

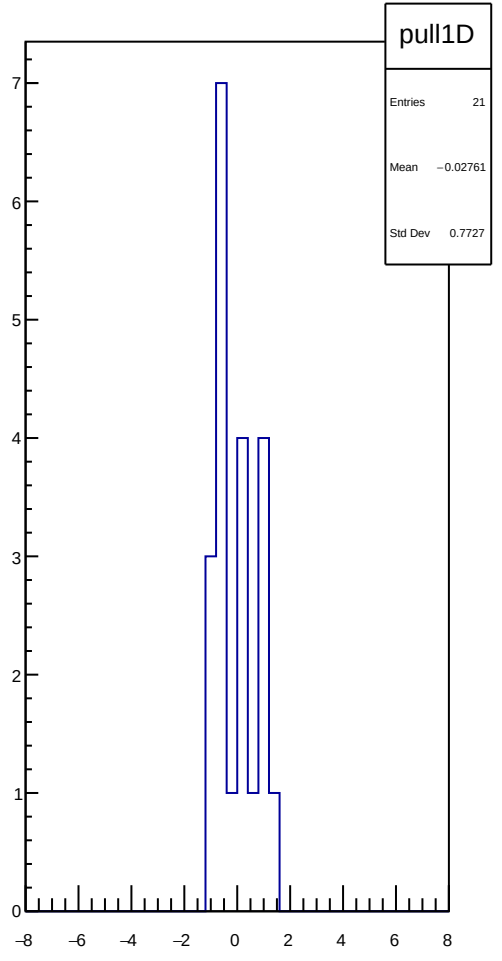

pull1D
Entries 21
Mean −0.3979
Std Dev 3.914
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

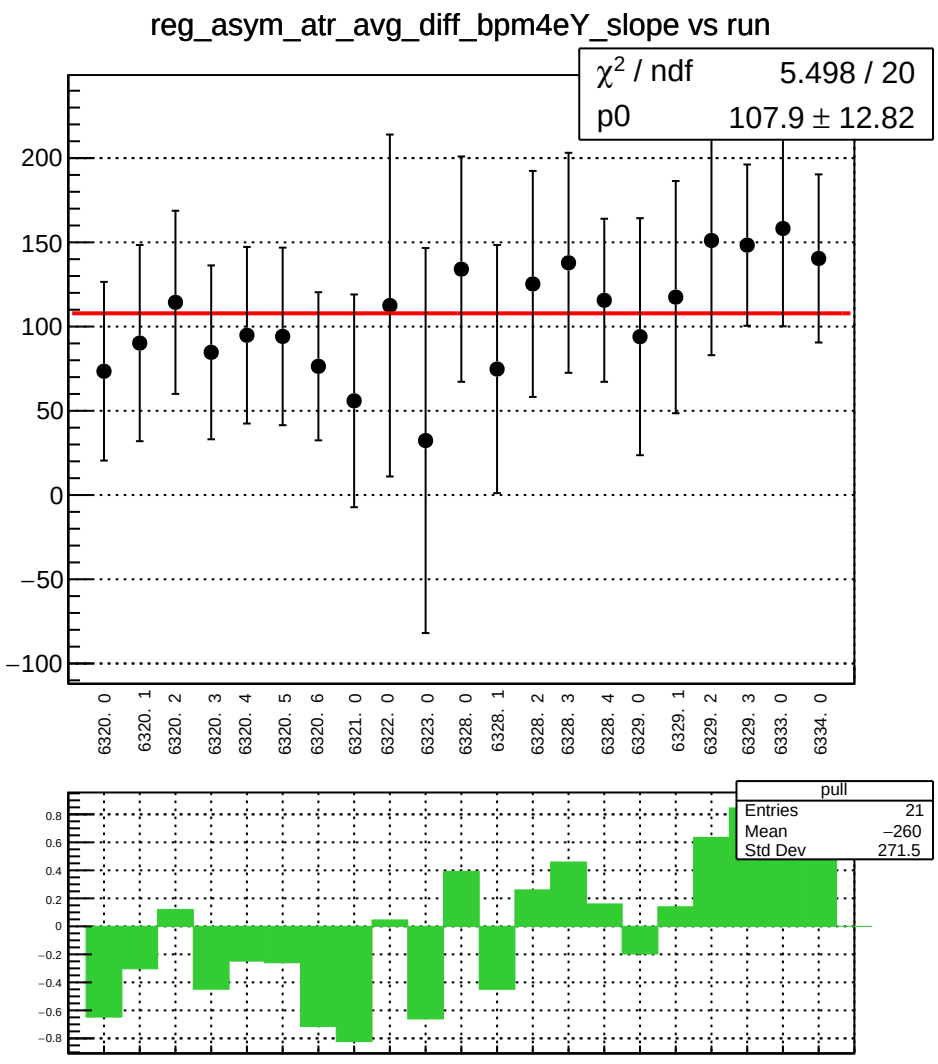

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.36 / 20
p0 −500.7 ± 24.74
−200
−300
−400
−500
−600
−700
−800
−900
−1000
−1100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 182.5
Std Dev 172.4
1
0.5
0
−0.5
−1

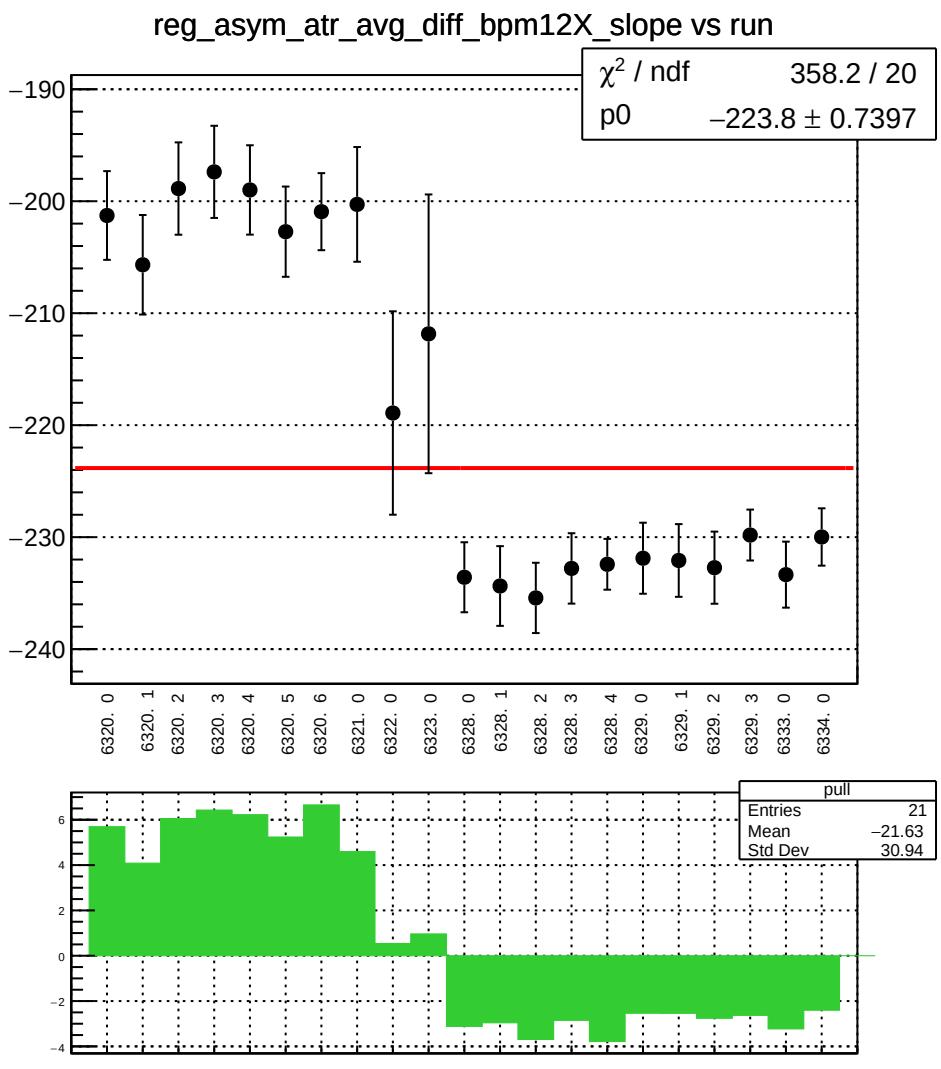

pull1D
Entries 21
Mean 0.0199
Std Dev 0.7351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

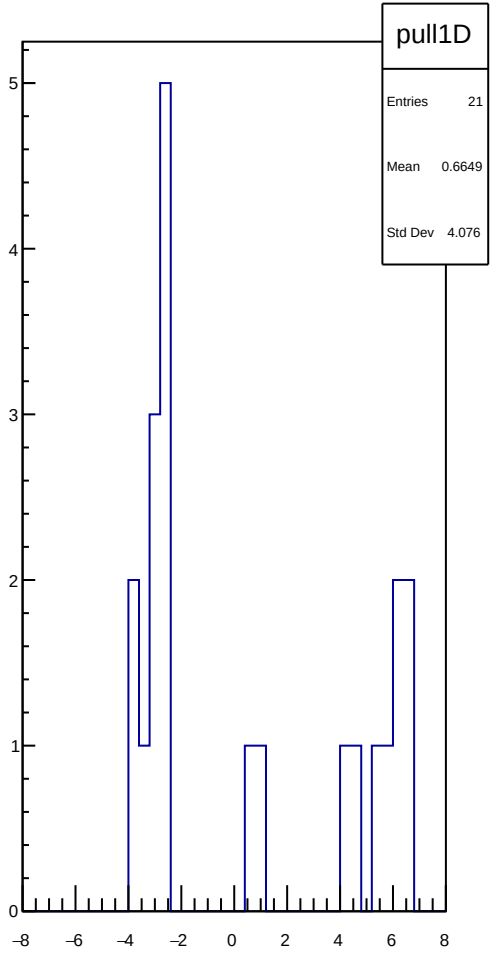

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.398 / 20
p0 −4.29 ± 10.92
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 147.8
Std Dev 136.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.01163
Std Dev 0.4021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

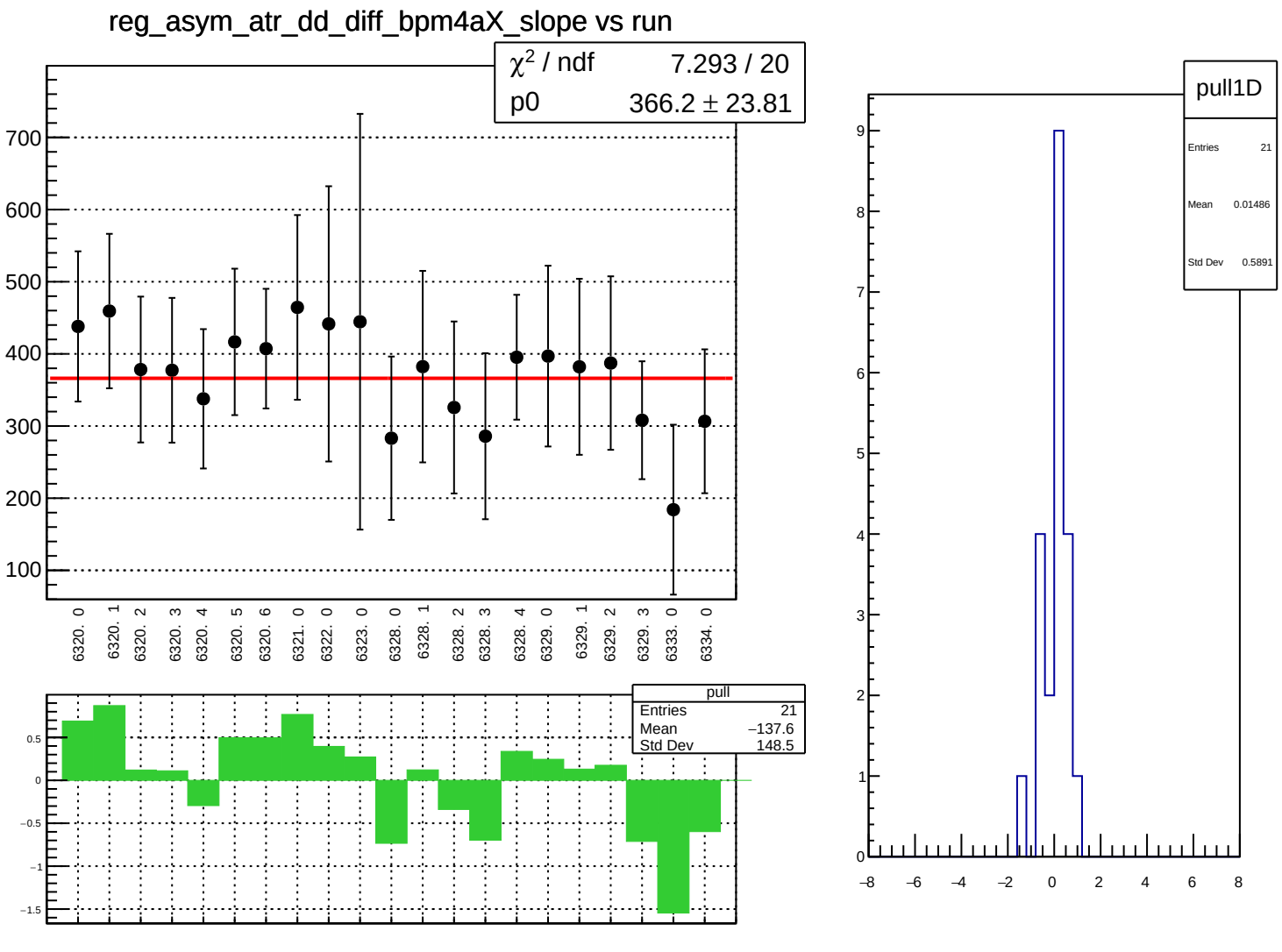

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.55 / 20
p0 592.1 ± 26.83
1200
1000
800
600
400
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 141.3
Std Dev 131.3
1
0.5
0
−0.5
−1

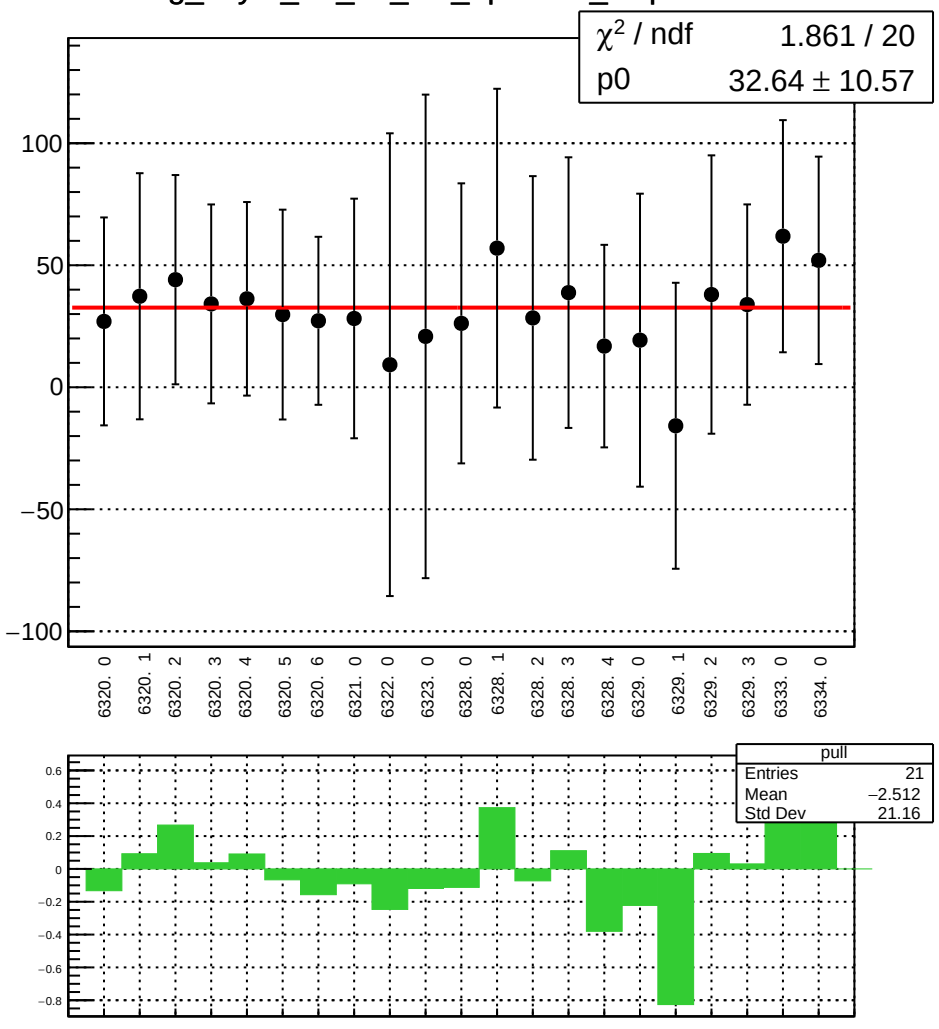

pull1D
Entries 21
Mean −0.02761
Std Dev 0.7727
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

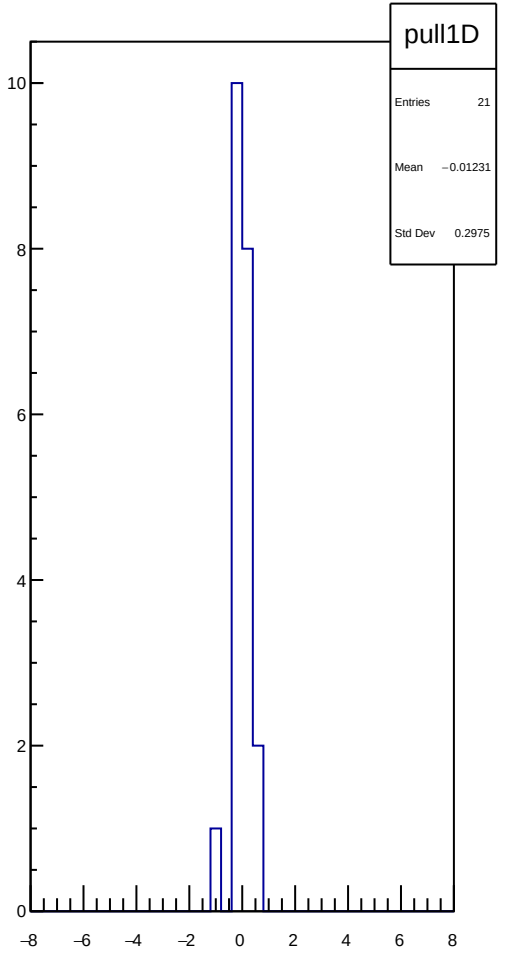

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.498 / 20
p0 107.9 ± 12.82
200
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −260
Std Dev 271.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.008372
Std Dev 0.5116
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

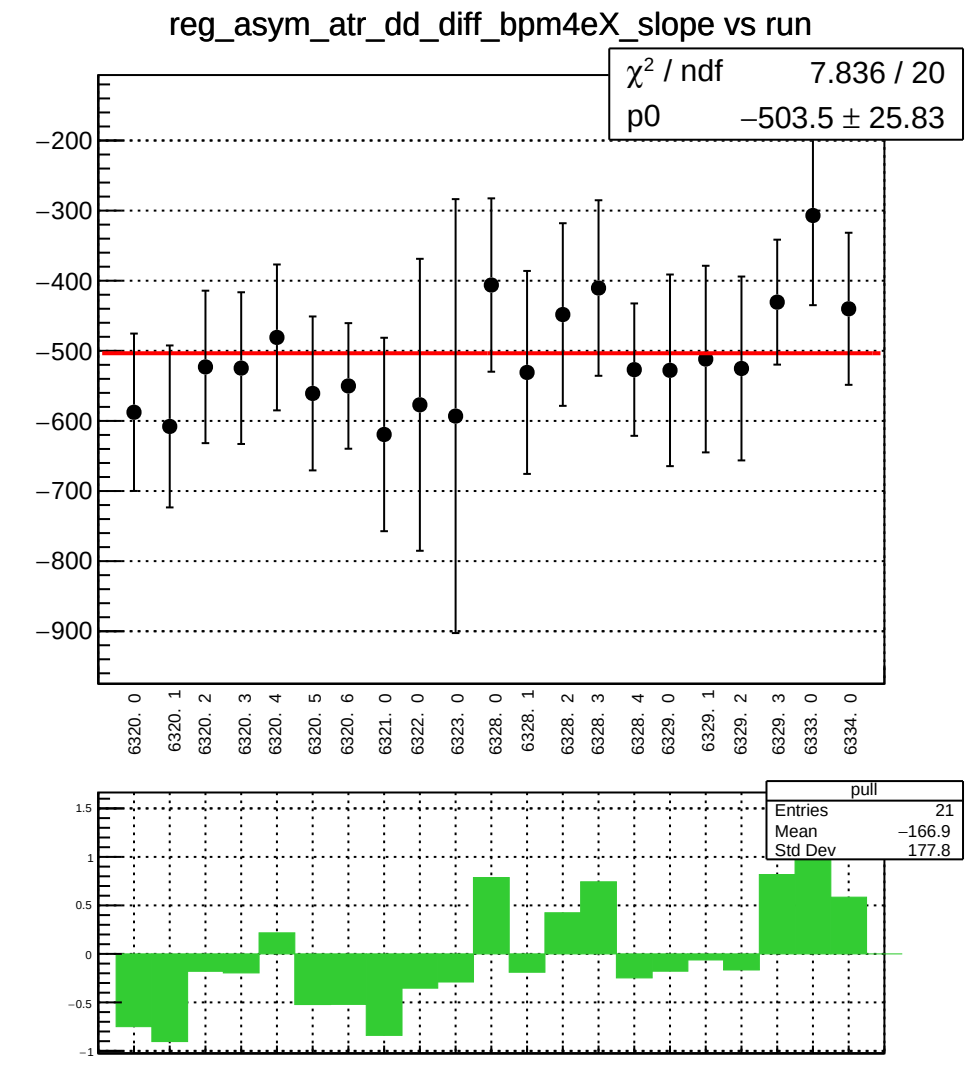

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 358.2 / 20
p0 −223.8 ± 0.7397
−190
−200
−210
−220
−230
−240
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.63
Std Dev 30.94
6
4
2
0
−2
−4

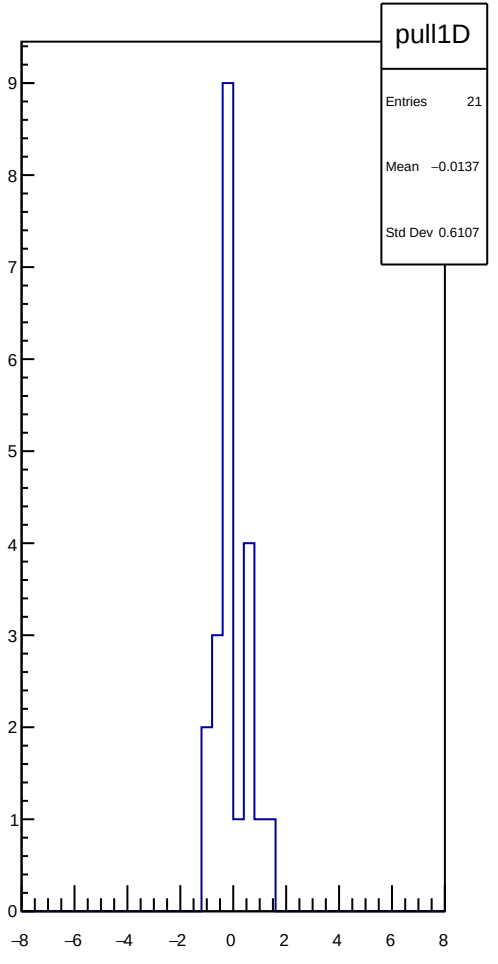

pull1D
Entries 21
Mean 0.6649
Std Dev 4.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

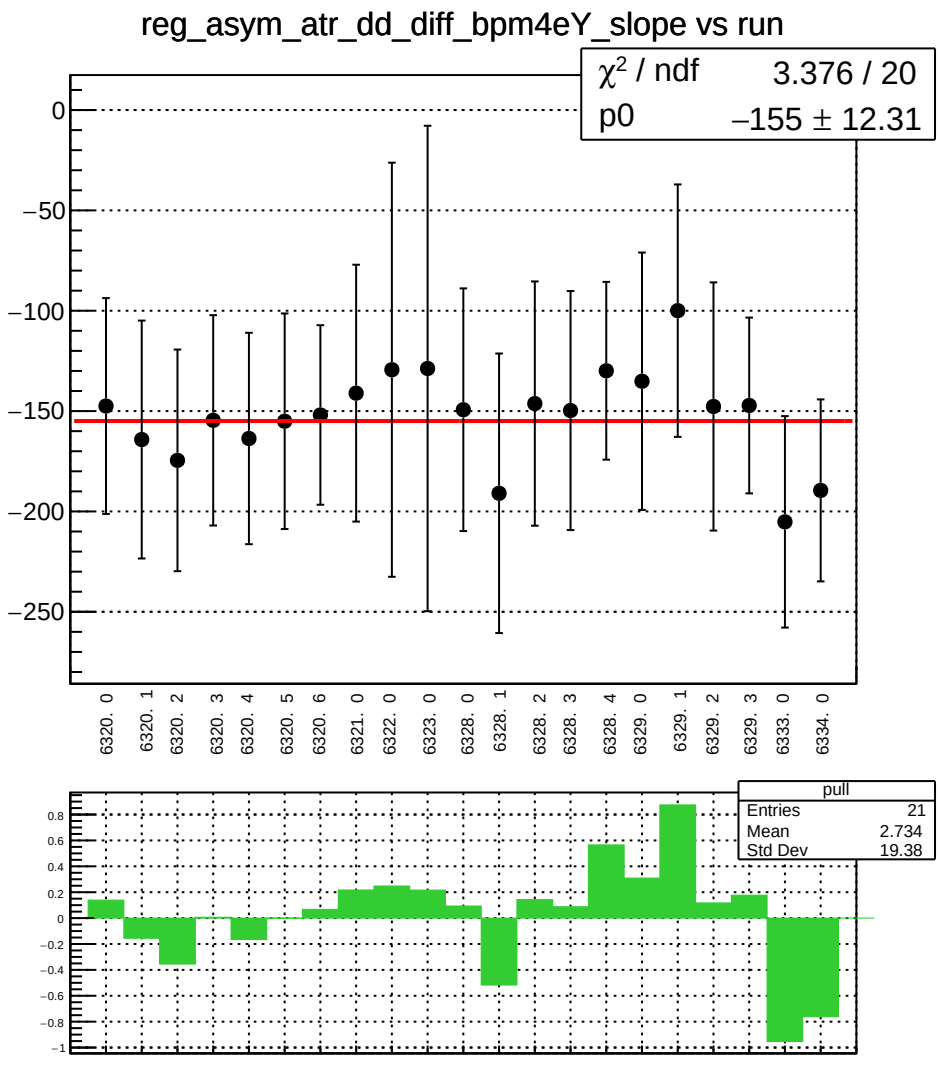

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.293 / 20
p0 366.2 ± 23.81
700
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −137.6
Std Dev 148.5
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.01486
Std Dev 0.5891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

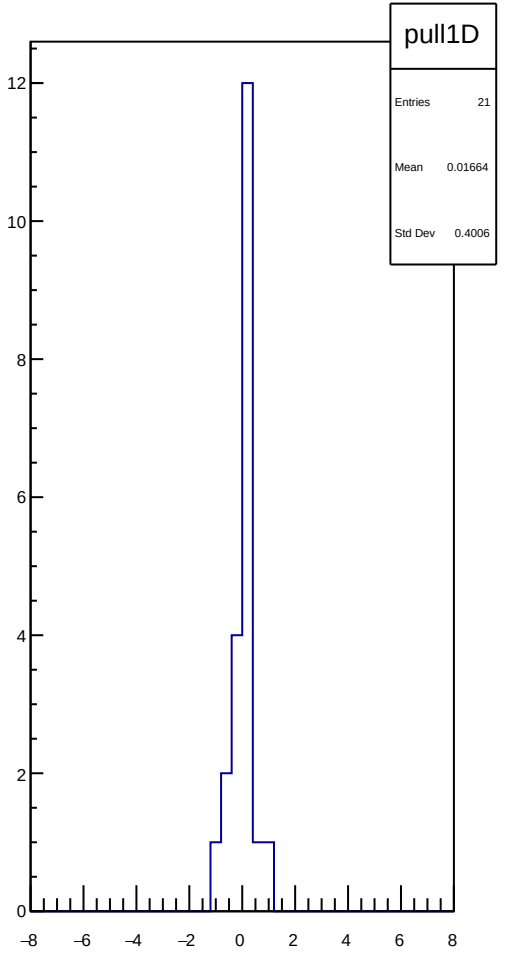

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.861 / 20
p0 32.64 ± 10.57
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −2.512
Std Dev 21.16
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

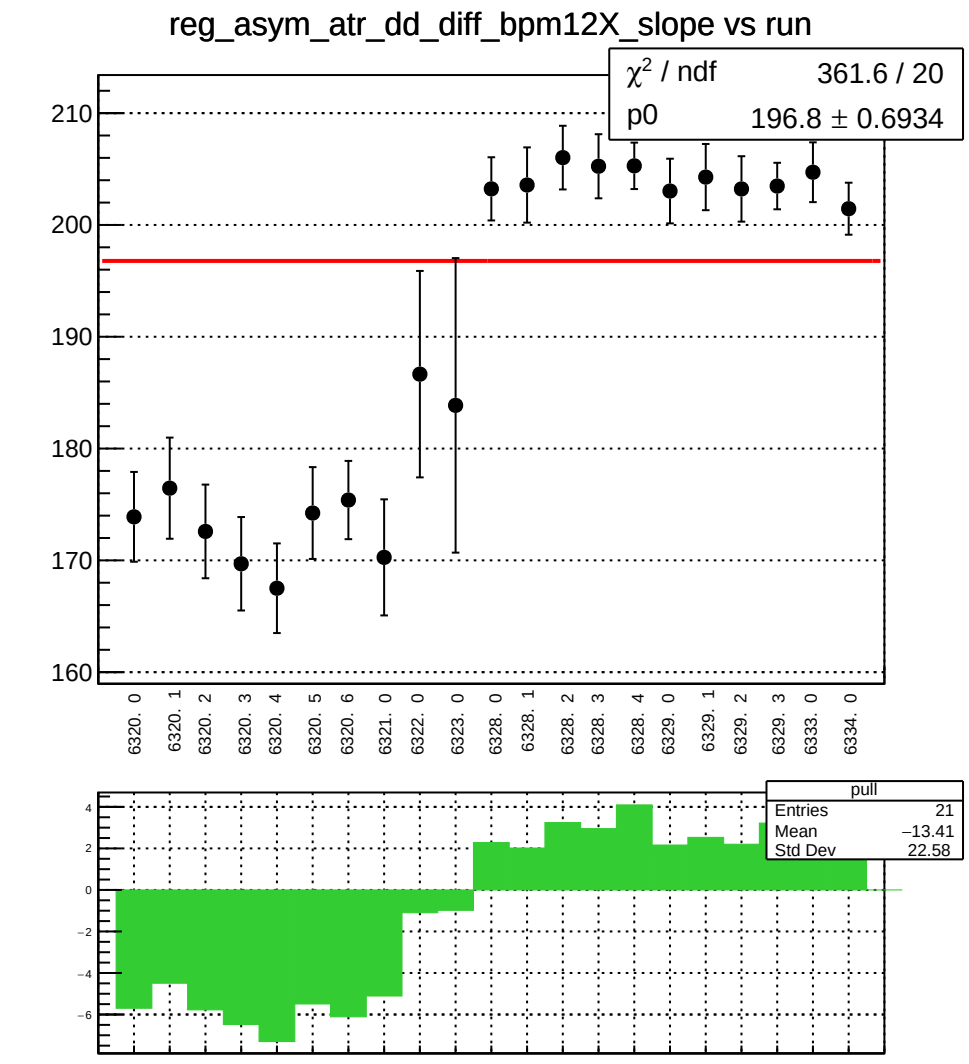

pull1D
Entries 21
Mean −0.01231
Std Dev 0.2975
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

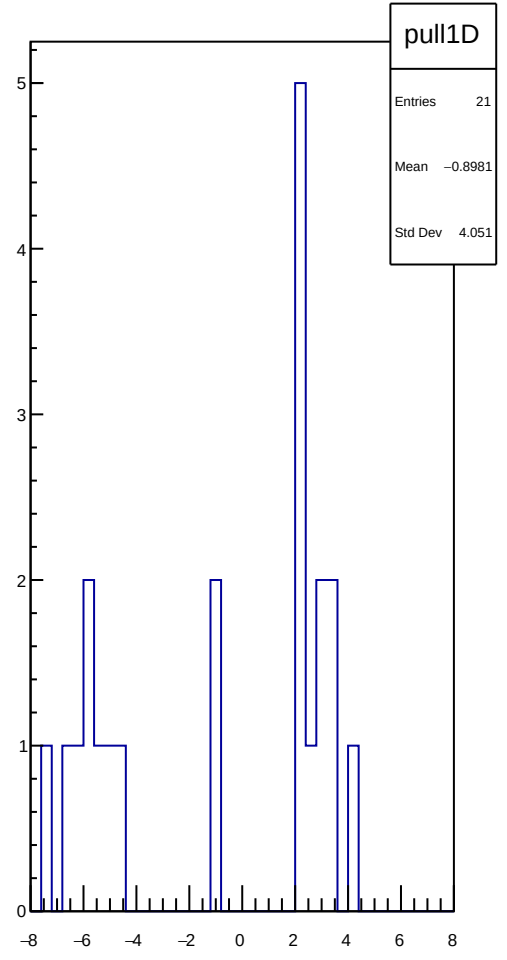

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.836 / 20
p0 −503.5 ± 25.83
−200
−300
−400
−500
−600
−700
−800
−900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −166.9
Std Dev 177.8
1.5
1
0.5
0
−0.5
−1

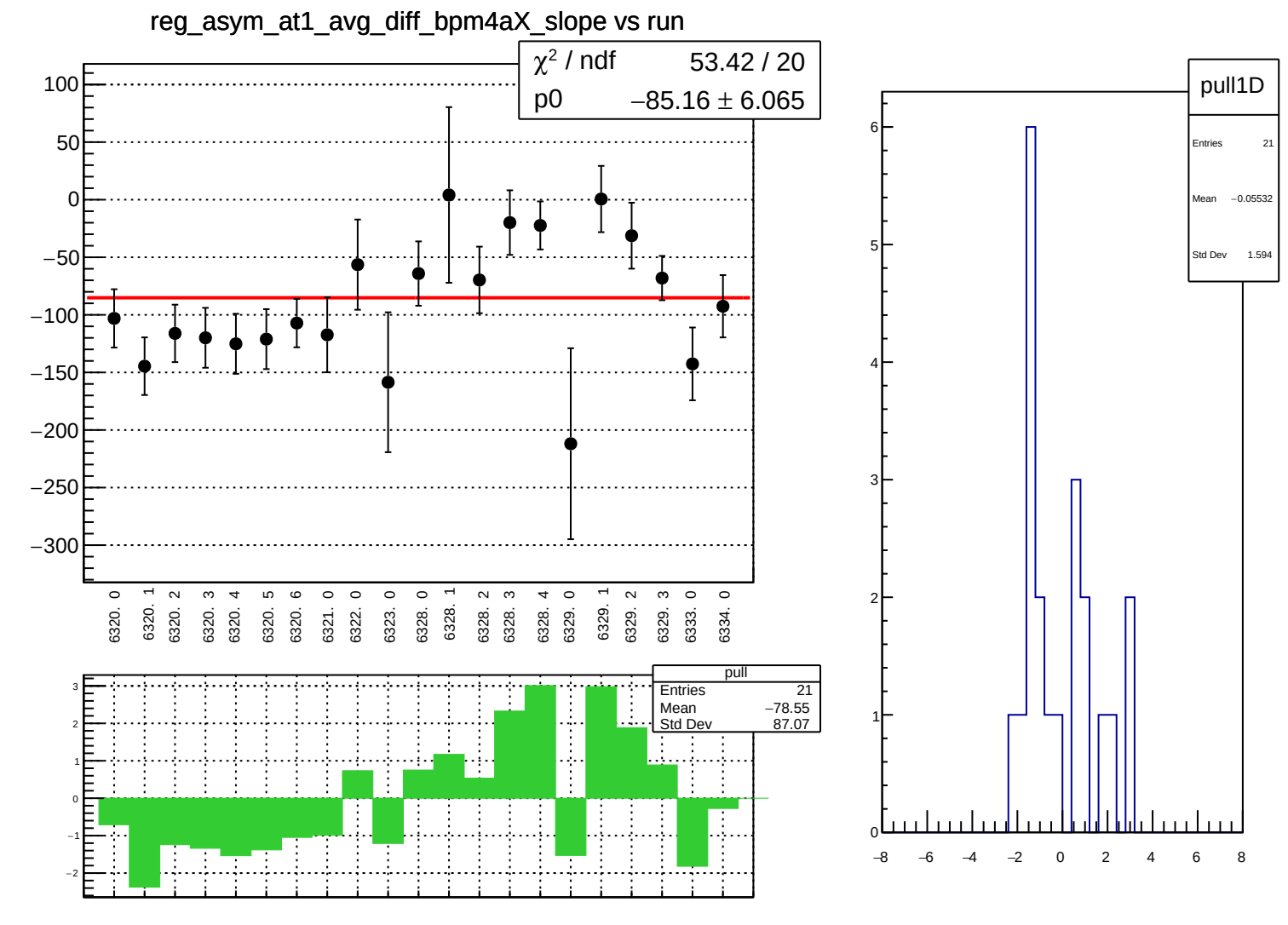

pull1D
Entries 21
Mean −0.0137
Std Dev 0.6107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

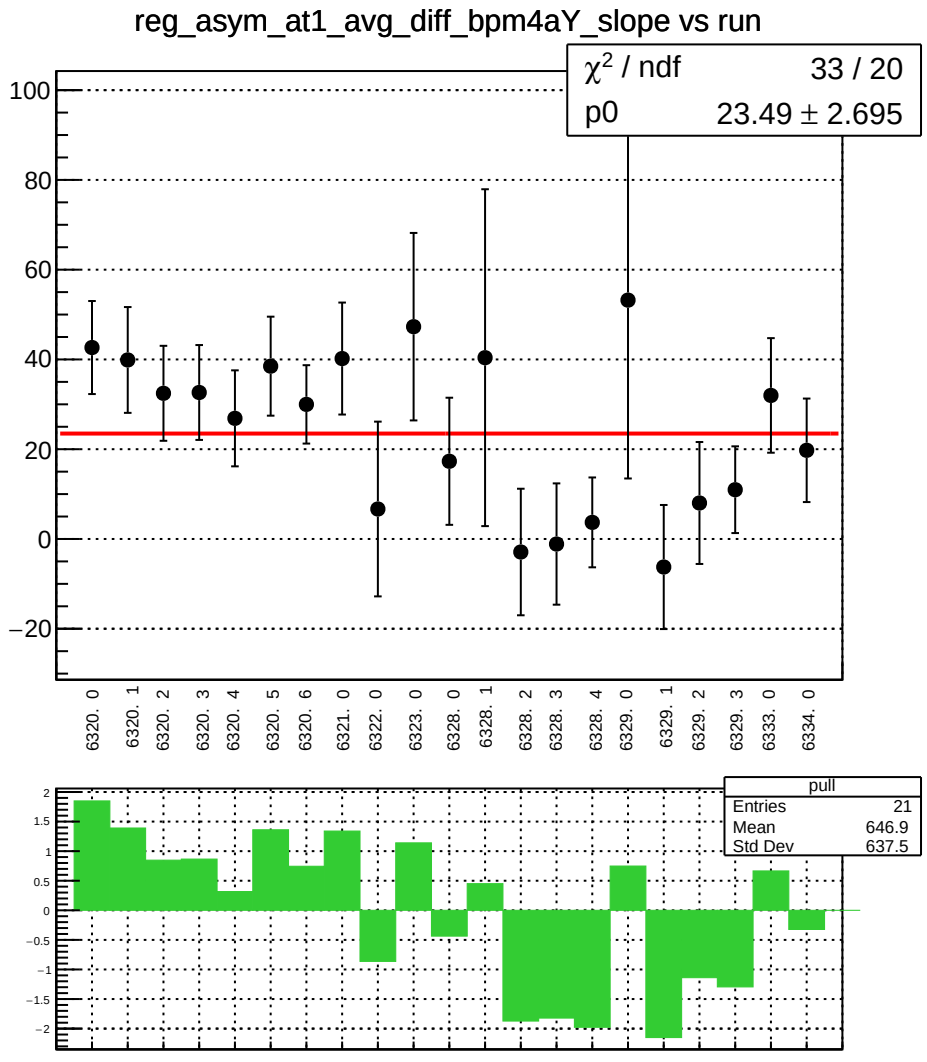

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.376 / 20
p0 −155 ± 12.31
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 2.734
Std Dev 19.38
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

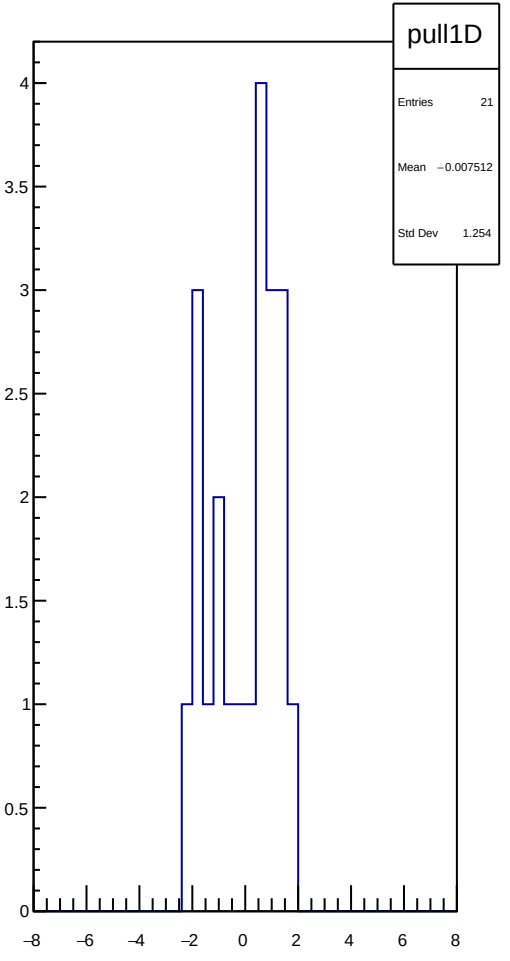

pull1D
Entries 21
Mean 0.01664
Std Dev 0.4006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

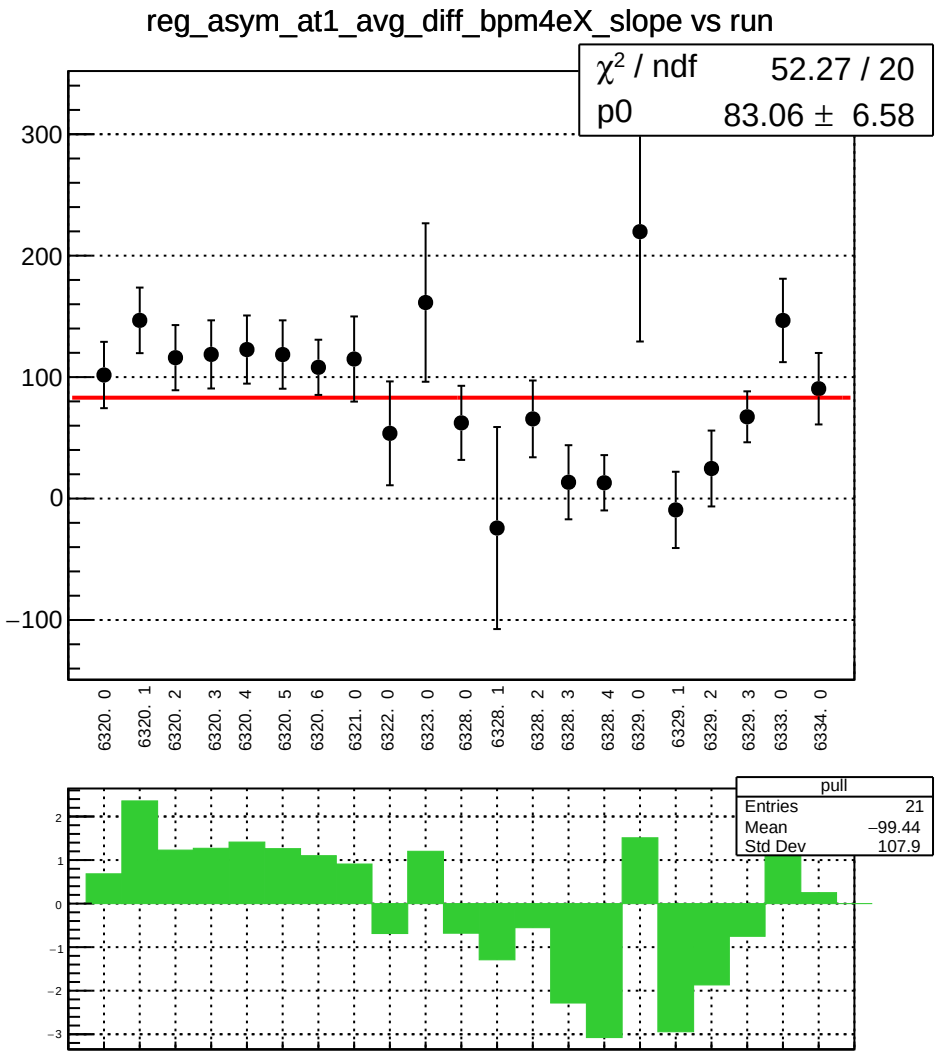

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 361.6 / 20
p0 196.8 ± 0.6934
210
200
190
180
170
160
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −13.41
Std Dev 22.58
4
2
0
−2
−4
−6

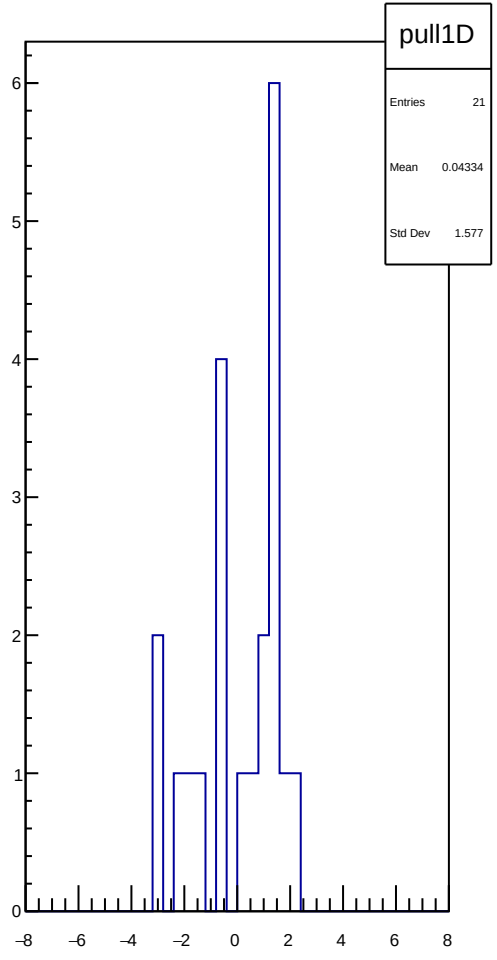

pull1D
Entries 21
Mean −0.8981
Std Dev 4.051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

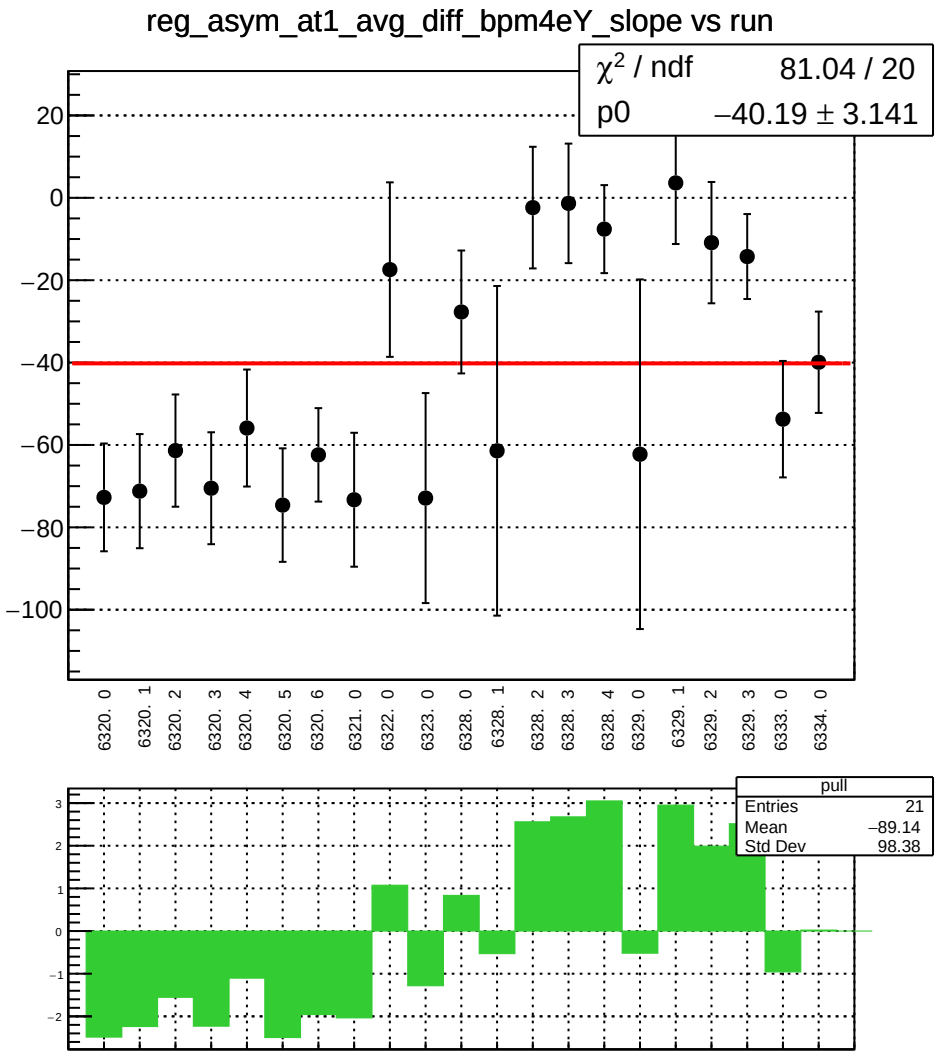

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.42 / 20
p0 −85.16 ± 6.065
100
50
0
−50
−100
−150
−200
−250
−300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −78.55
Std Dev 87.07
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05532
Std Dev 1.594
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

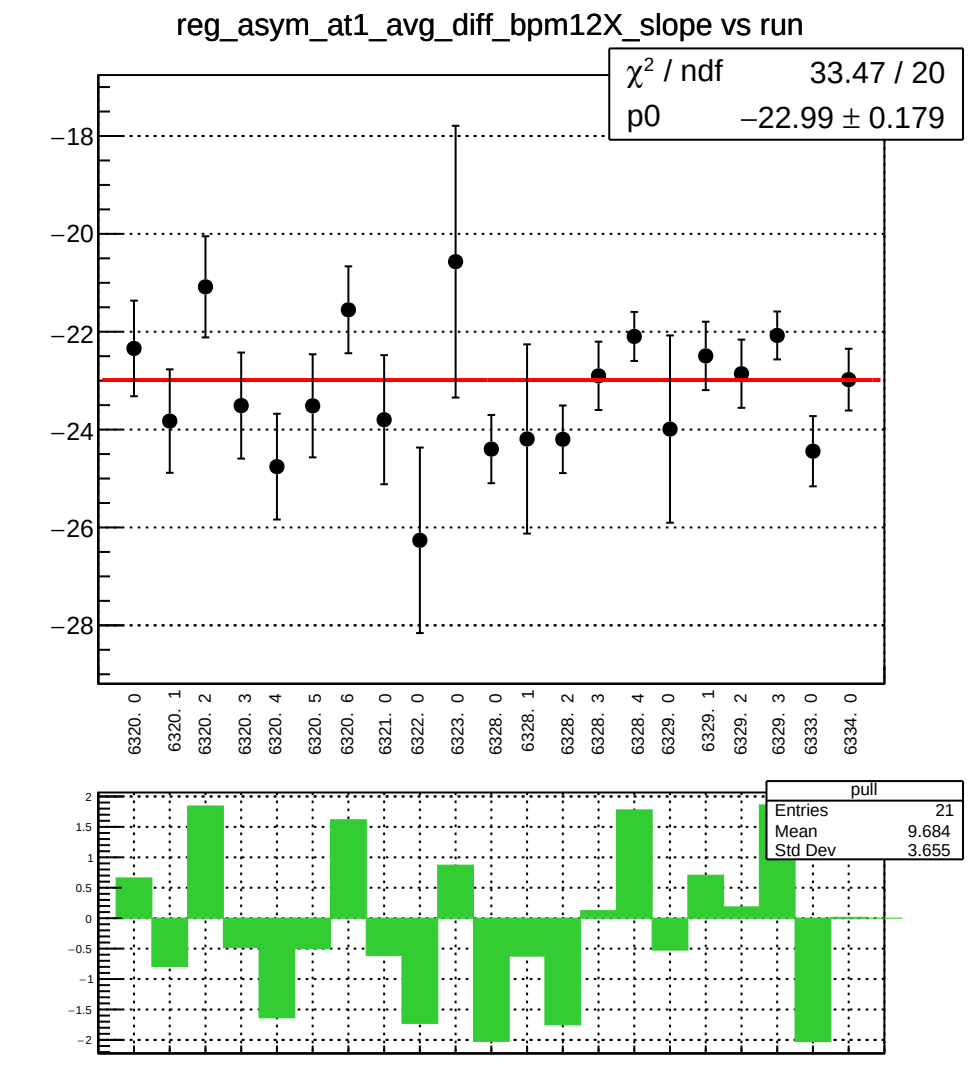

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 33 / 20
p0 23.49 ± 2.695
100
80
60
40
20
0
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 646.9
Std Dev 637.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

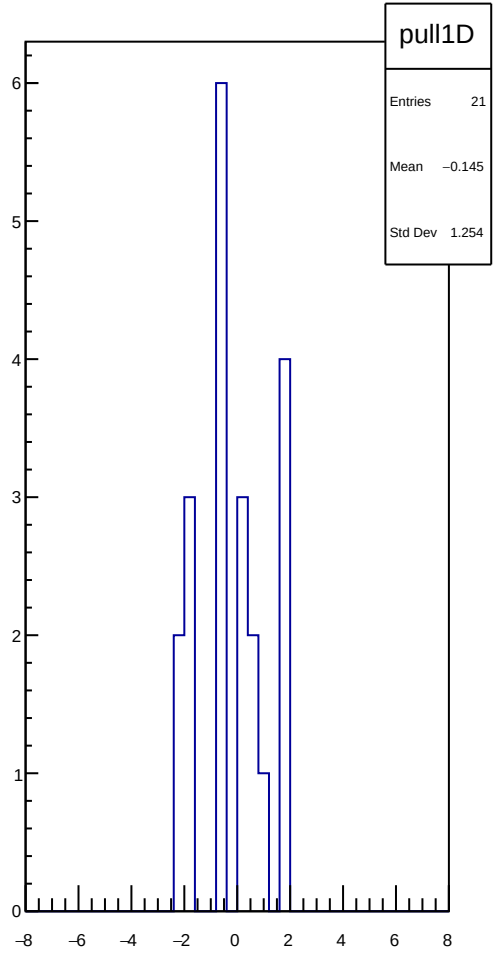

pull1D
Entries 21
Mean −0.007512
Std Dev 1.254
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

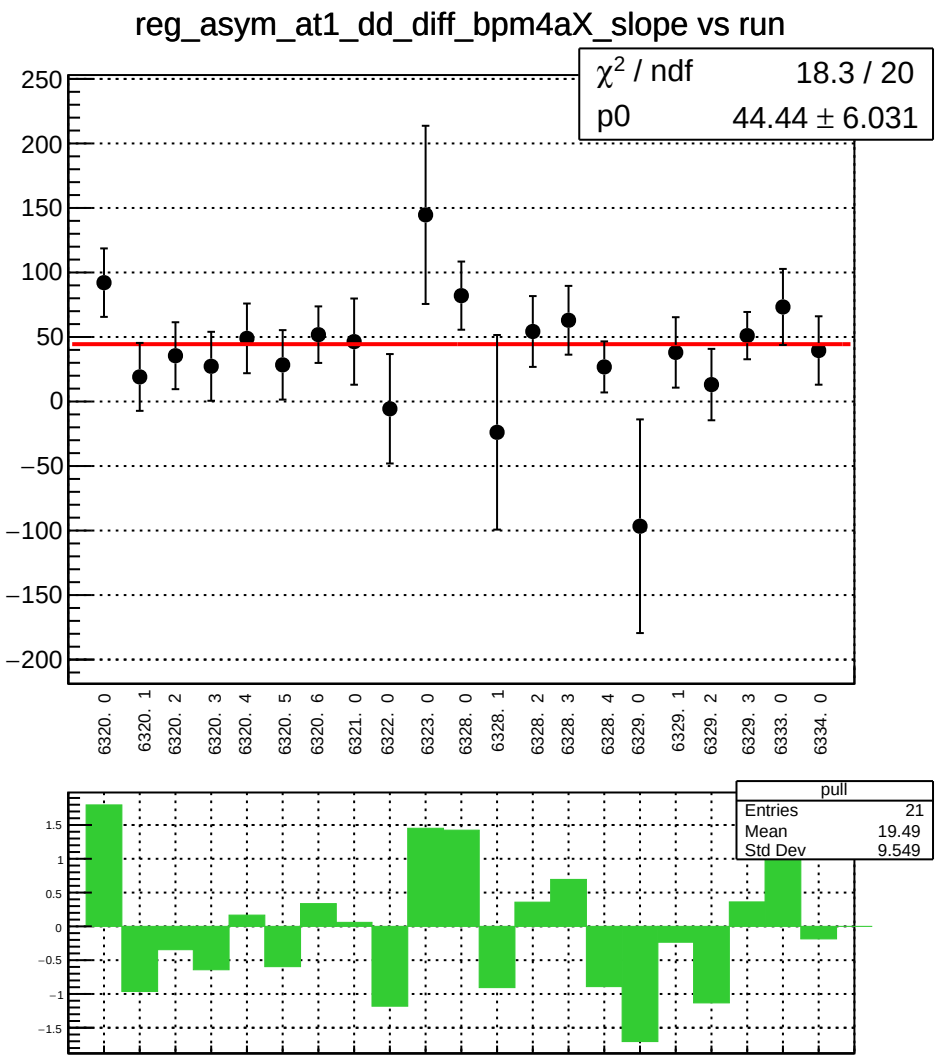

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.27 / 20
p0 83.06 ± 6.58
300
200
100
0
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −99.44
Std Dev 107.9
2
1
0
−1
−2
−3

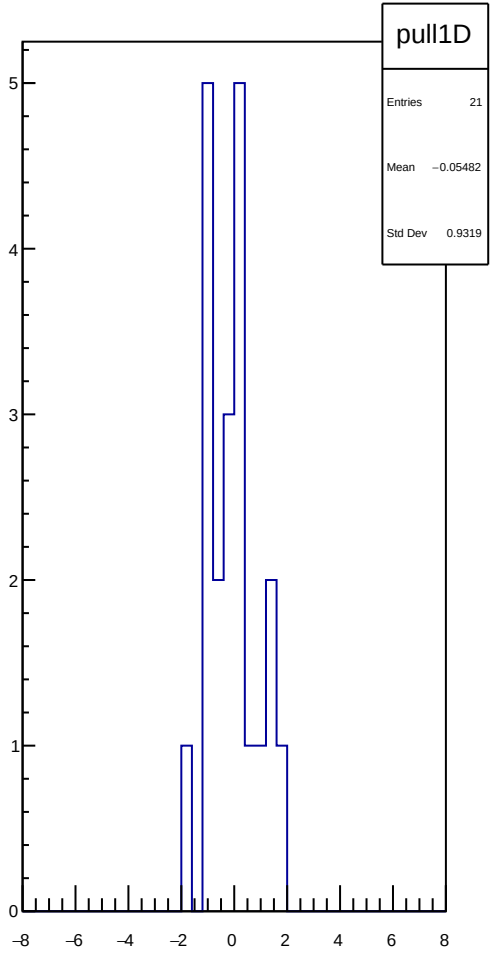

pull1D
Entries 21
Mean 0.04334
Std Dev 1.577
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

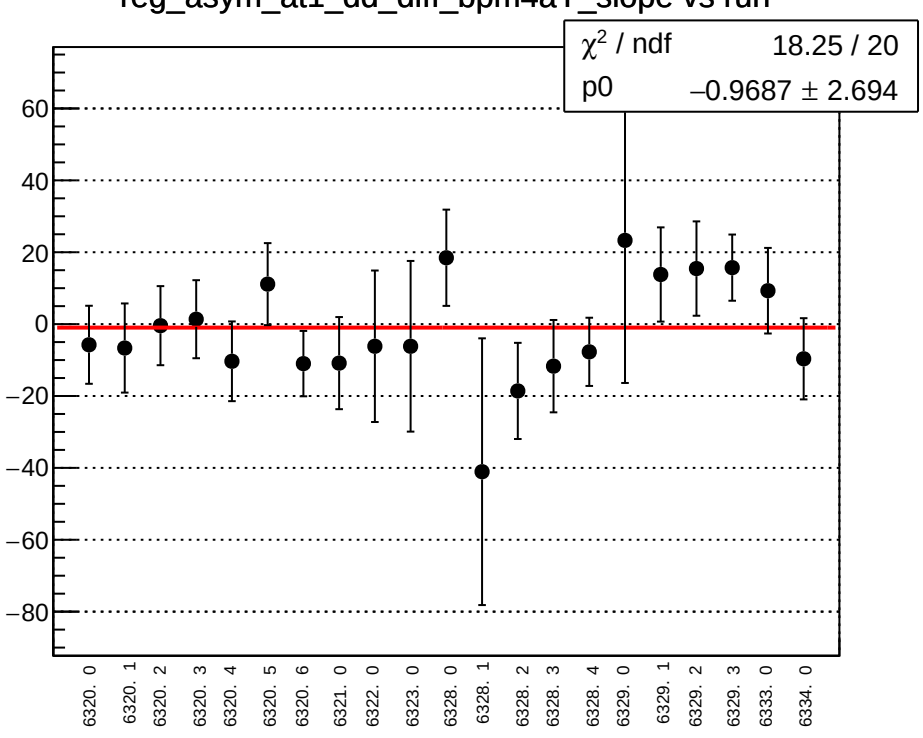

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.04 / 20
p0 −40.19 ± 3.141
20
0
−20
−40
−60
−80
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −89.14
Std Dev 98.38
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.08165
Std Dev 1.963
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

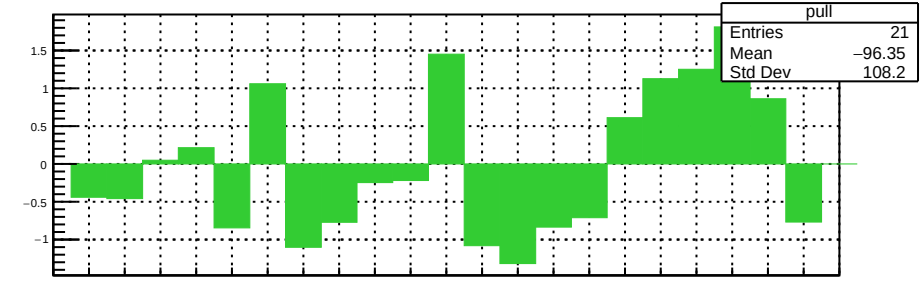

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 33.47 / 20
p0 −22.99 ± 0.179
−18
−20
−22
−24
−26
−28
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.684
Std Dev 3.655
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

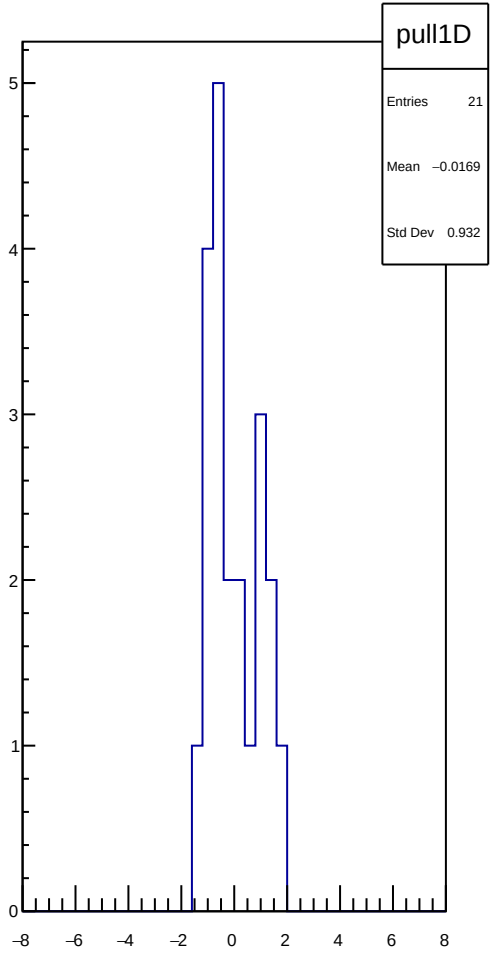

pull1D
Entries 21
Mean −0.145
Std Dev 1.254
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

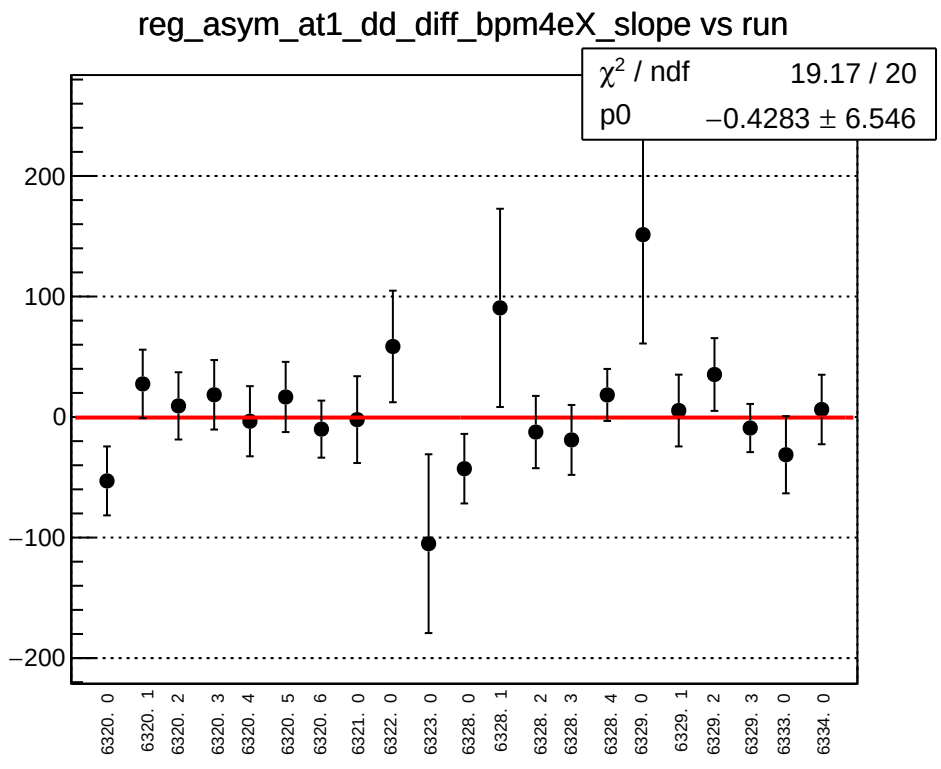

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.3 / 20
p0 44.44 ± 6.031
250
200
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 19.49
Std Dev 9.549
1.5
1
0.5
0
−0.5
−1
−1.5

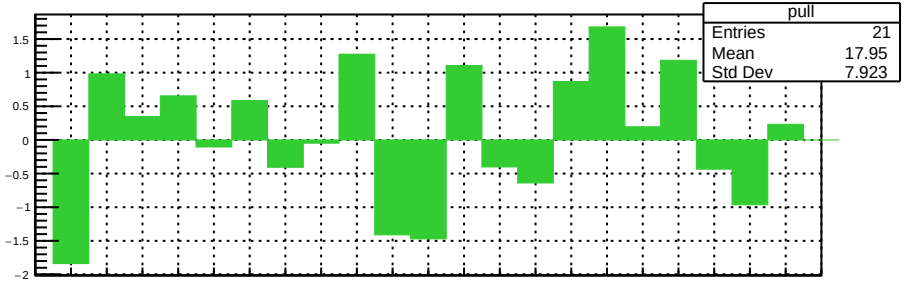

pull1D
Entries 21
Mean −0.05482
Std Dev 0.9319
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

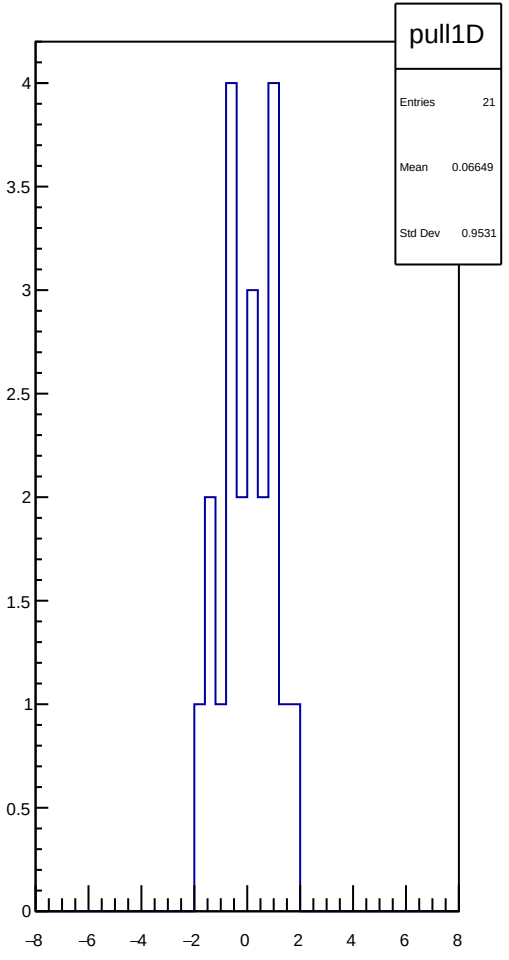

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.25 / 20
p0 −0.9687 ± 2.694
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

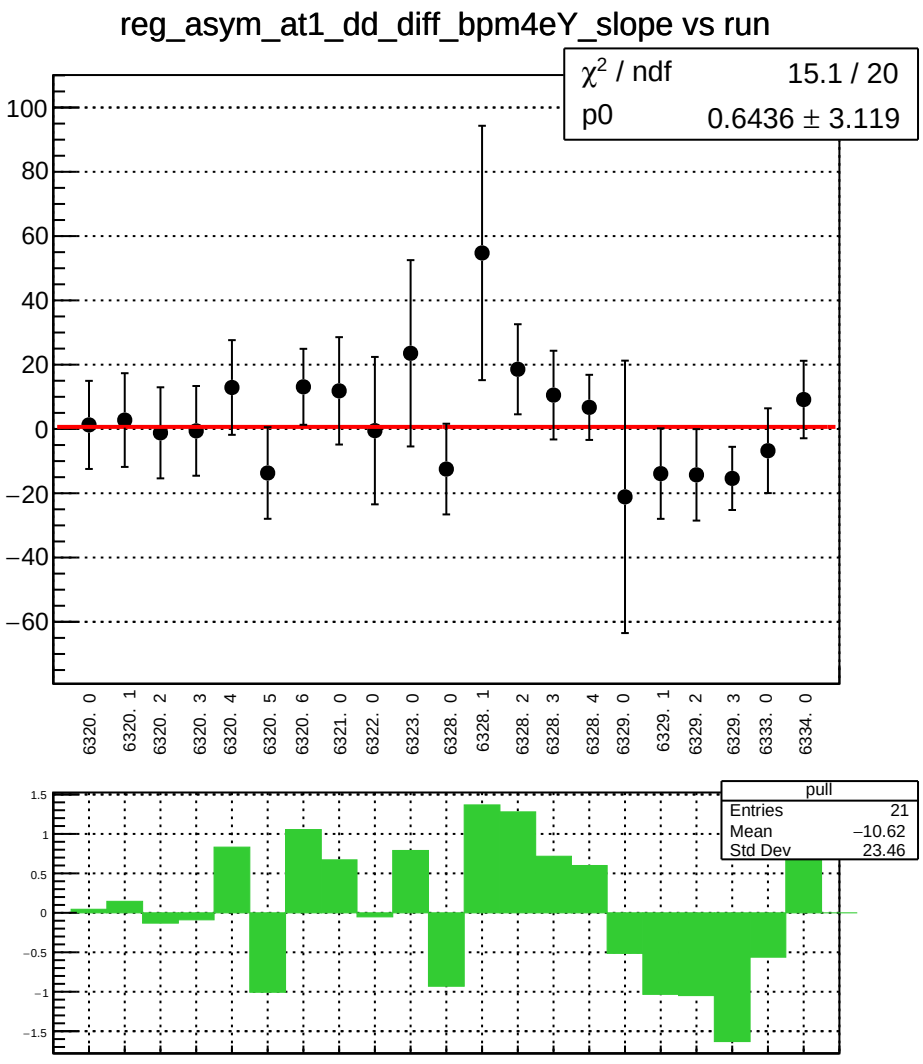

pull
Entries 21
Mean −96.35
Std Dev 108.2
1.5
1
0.5
0
−0.5
−1

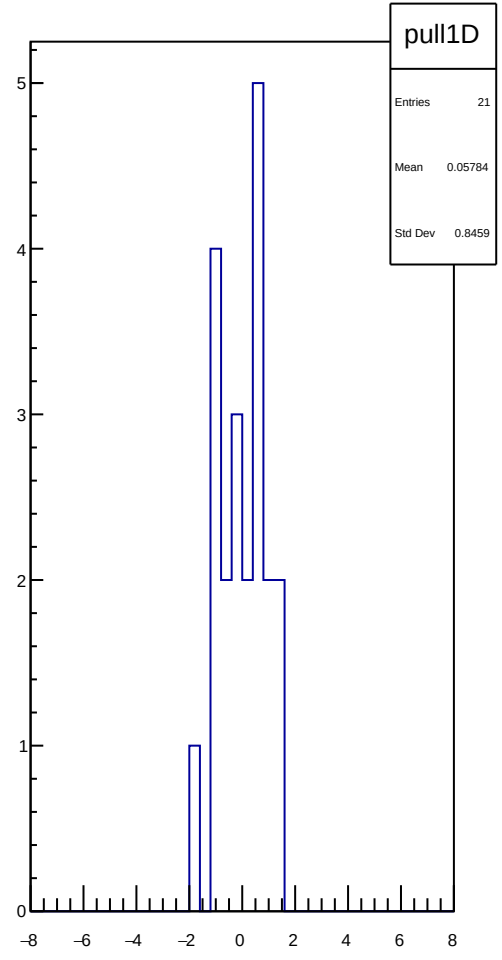

pull1D
Entries 21
Mean −0.0169
Std Dev 0.932
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

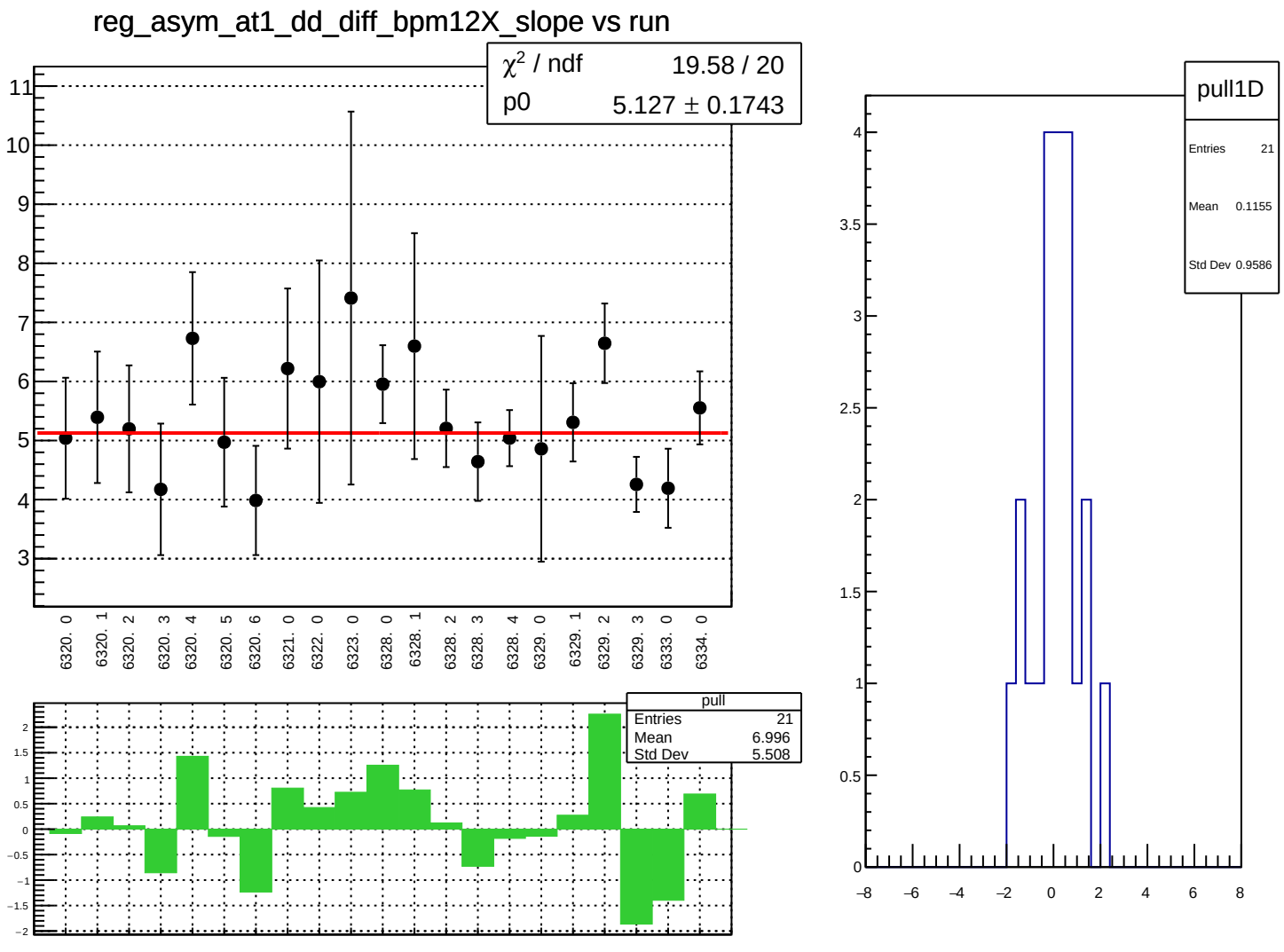

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.17 / 20
p0 −0.4283 ± 6.546
200
100
0
−100
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

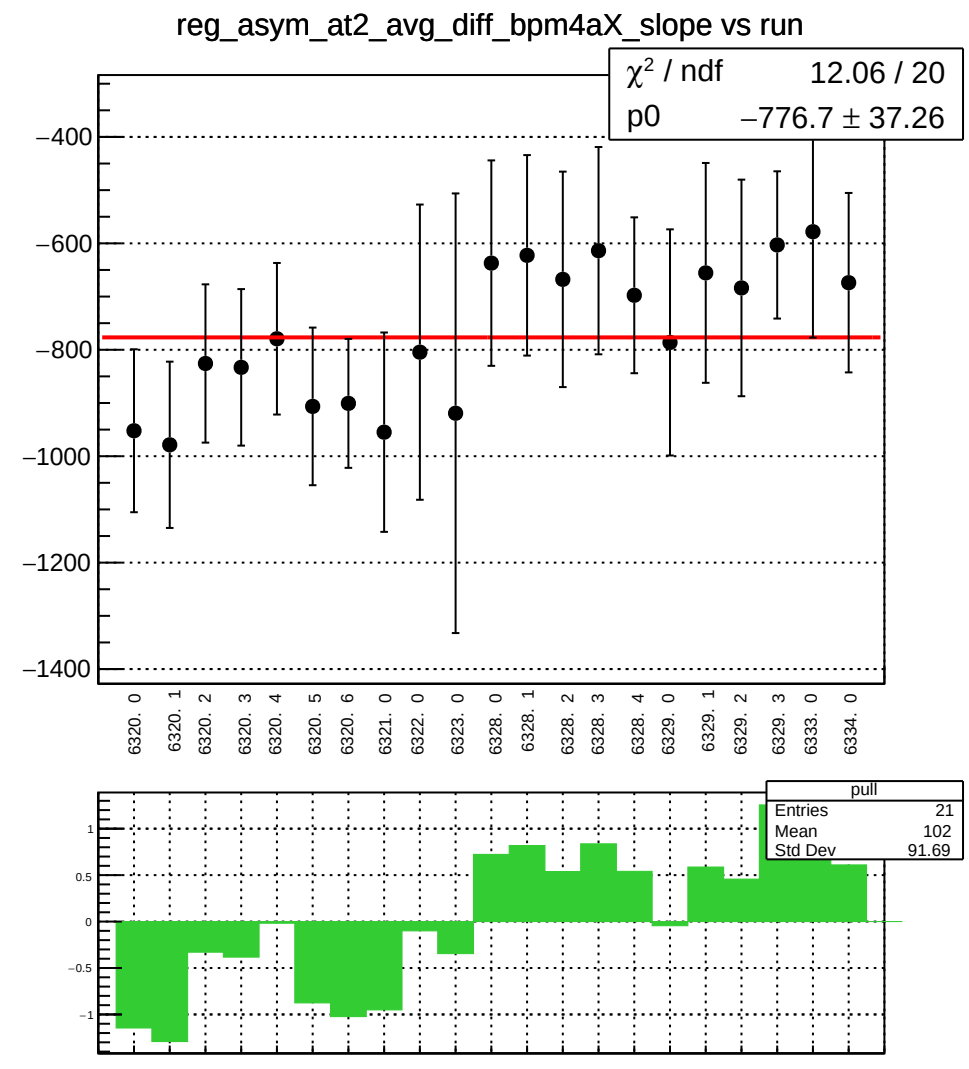

pull
Entries 21
Mean 17.95
Std Dev 7.923
1.5
1
0.5
0
−0.5
−1
−1.5
−2

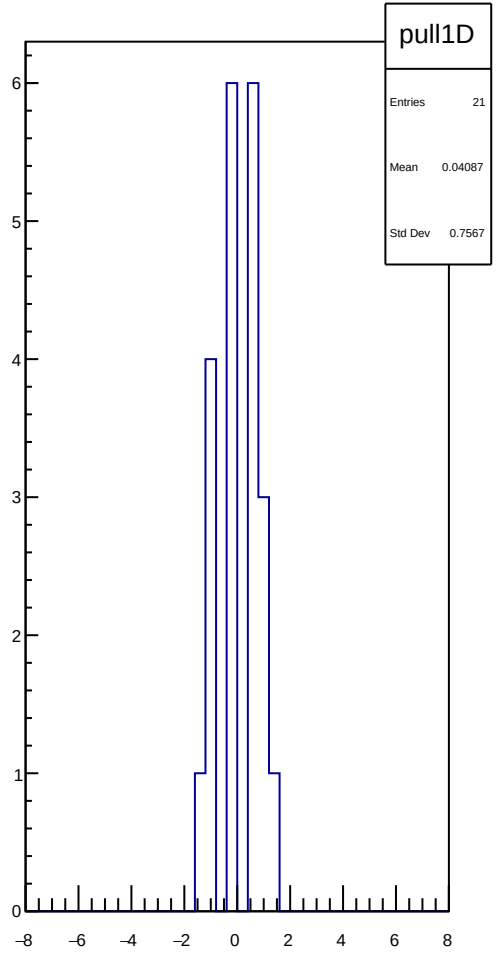

pull1D
Entries 21
Mean 0.06649
Std Dev 0.9531
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

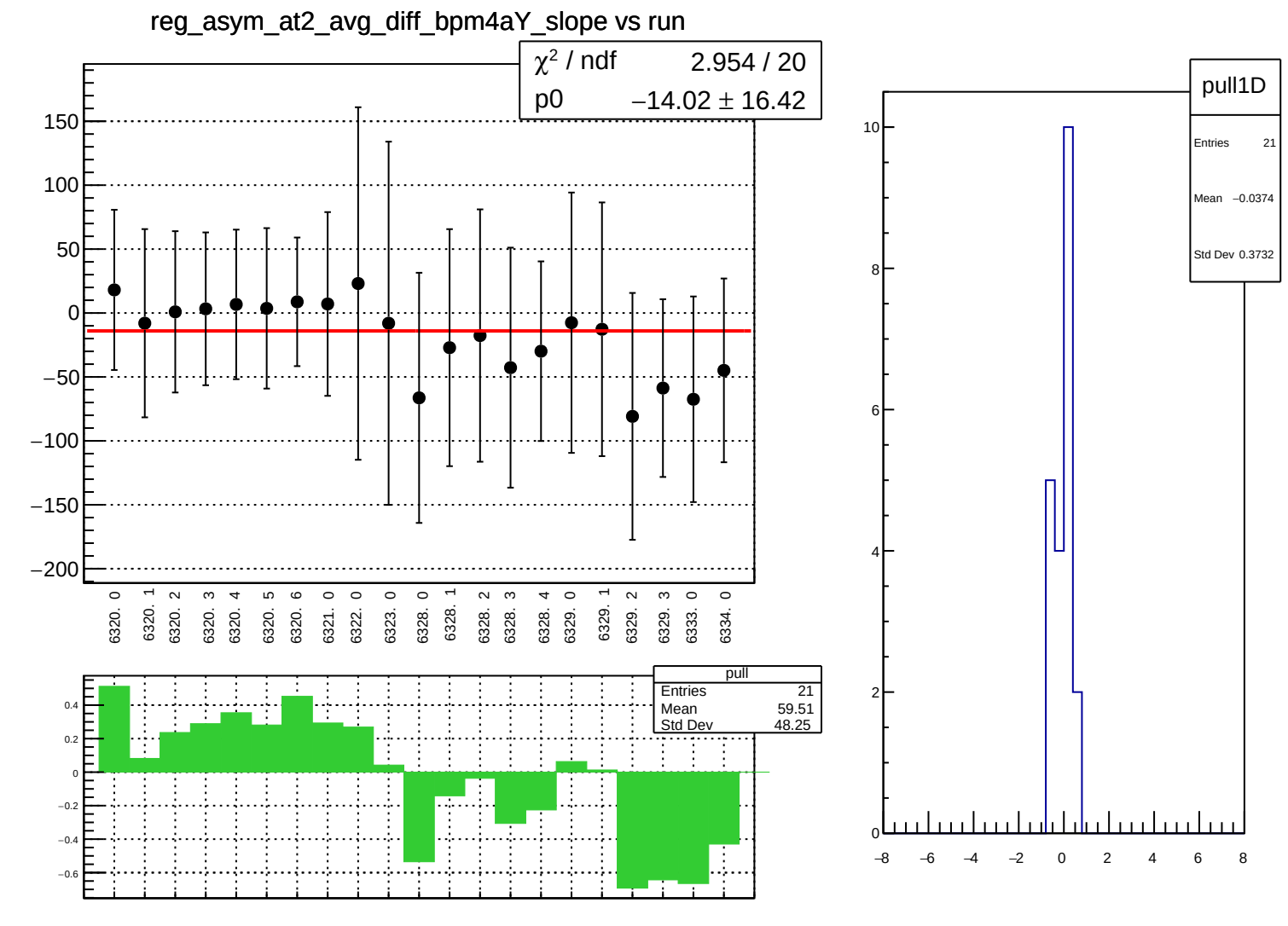

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.1 / 20
p0 0.6436 ± 3.119
100
80
60
40
20
0
−20
−40
−60
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.62
Std Dev 23.46
1.5
1
0.5
0
−0.5
−1
−1.5

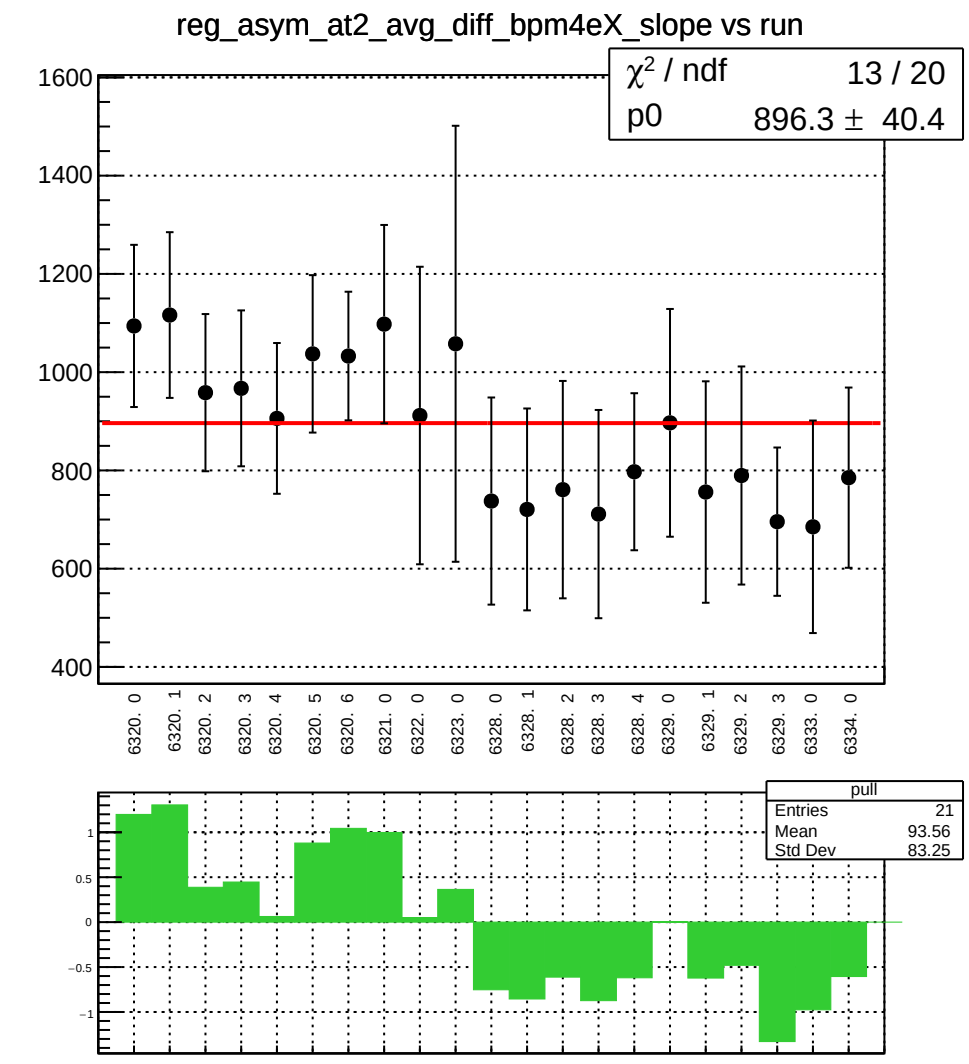

pull1D
Entries 21
Mean 0.05784
Std Dev 0.8459
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

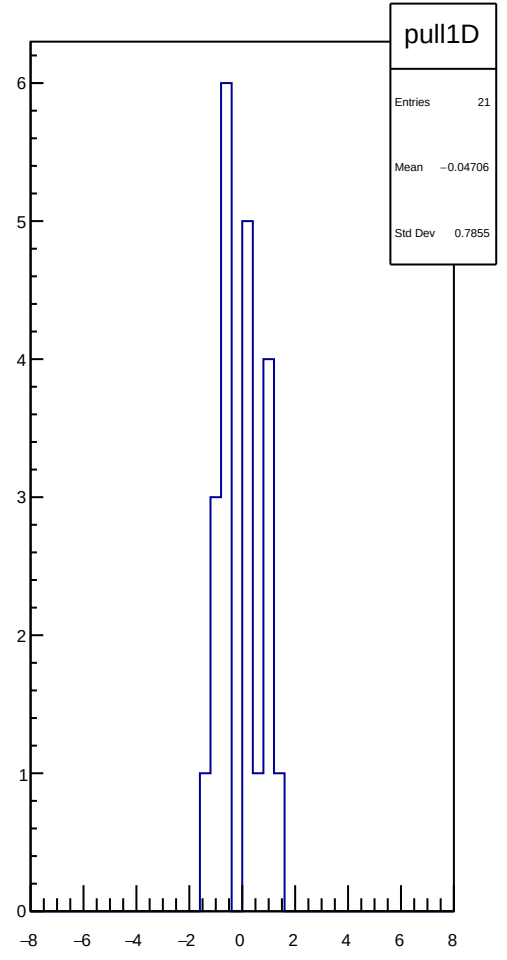

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 19.58 / 20
p0 5.127 ± 0.1743
11
10
9
8
7
6
5
4
3
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 6.996
Std Dev 5.508
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.1155
Std Dev 0.9586
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

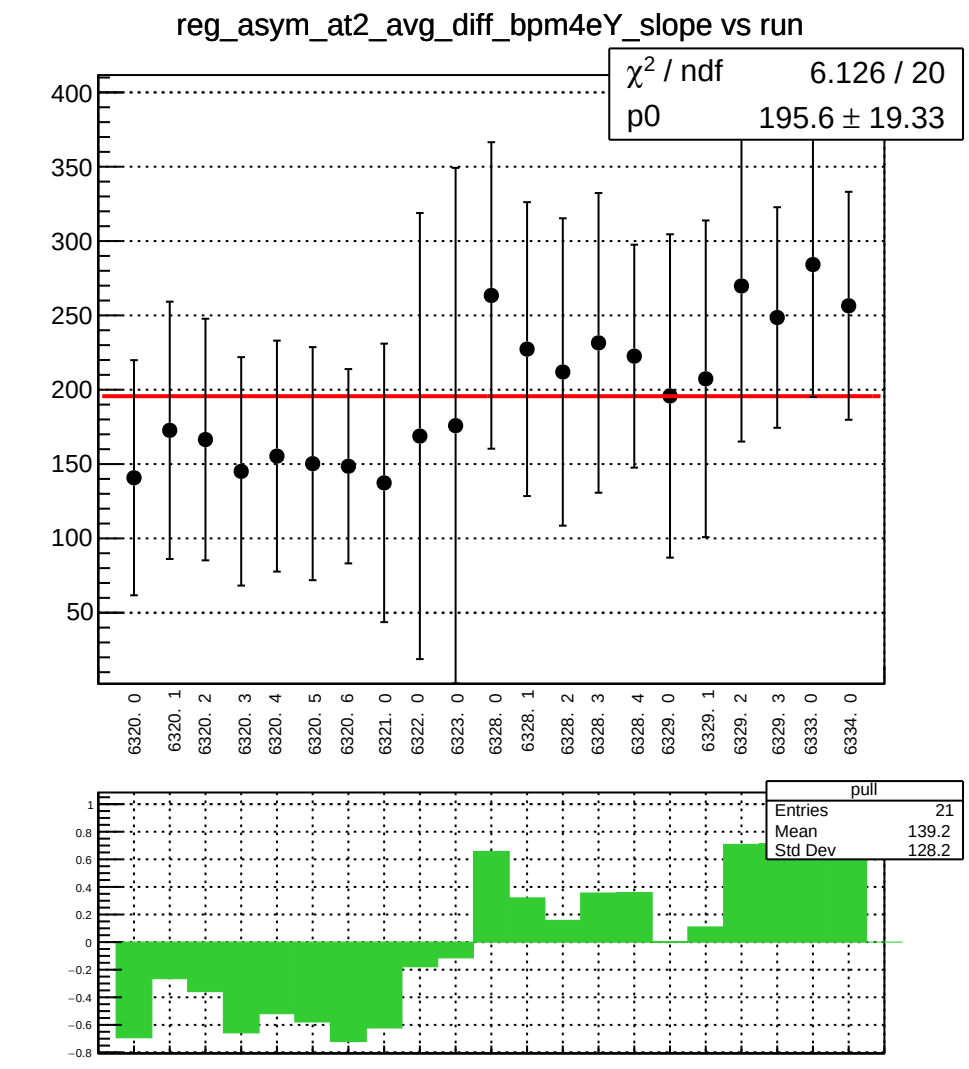

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.06 / 20
p0 −776.7 ± 37.26
−400
−600
−800
−1000
−1200
−1400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 102
Std Dev 91.69
1
0.5
0
−0.5
−1

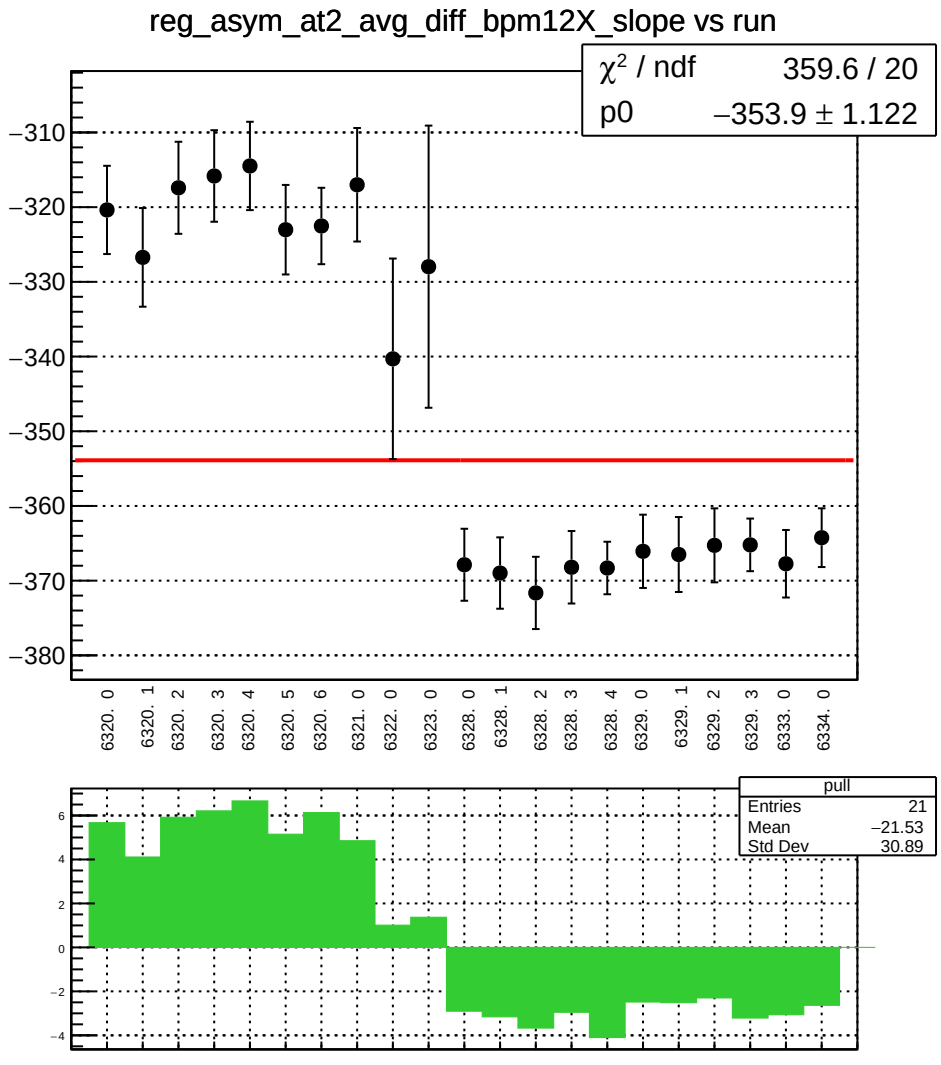

pull1D
Entries 21
Mean 0.04087
Std Dev 0.7567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

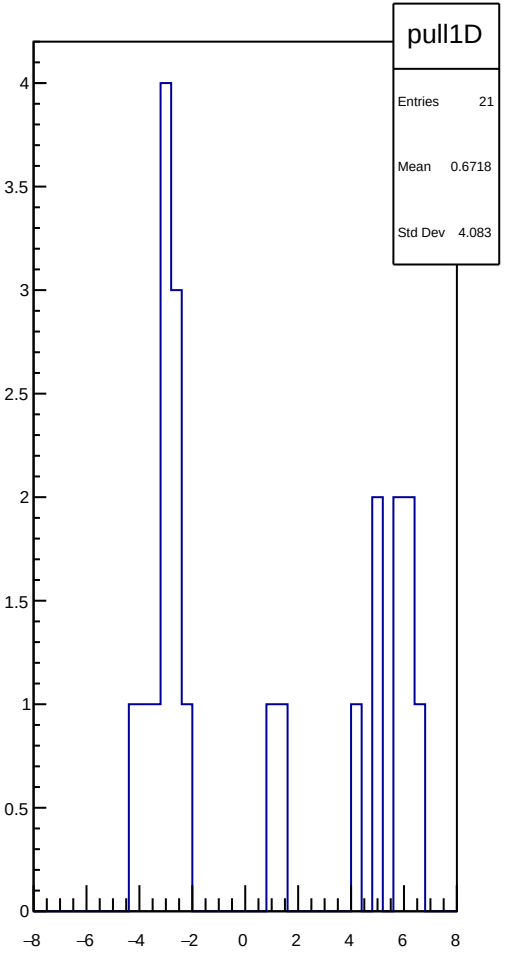

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.954 / 20
p0 −14.02 ± 16.42
150
100
50
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 59.51
Std Dev 48.25
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.0374
Std Dev 0.3732
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

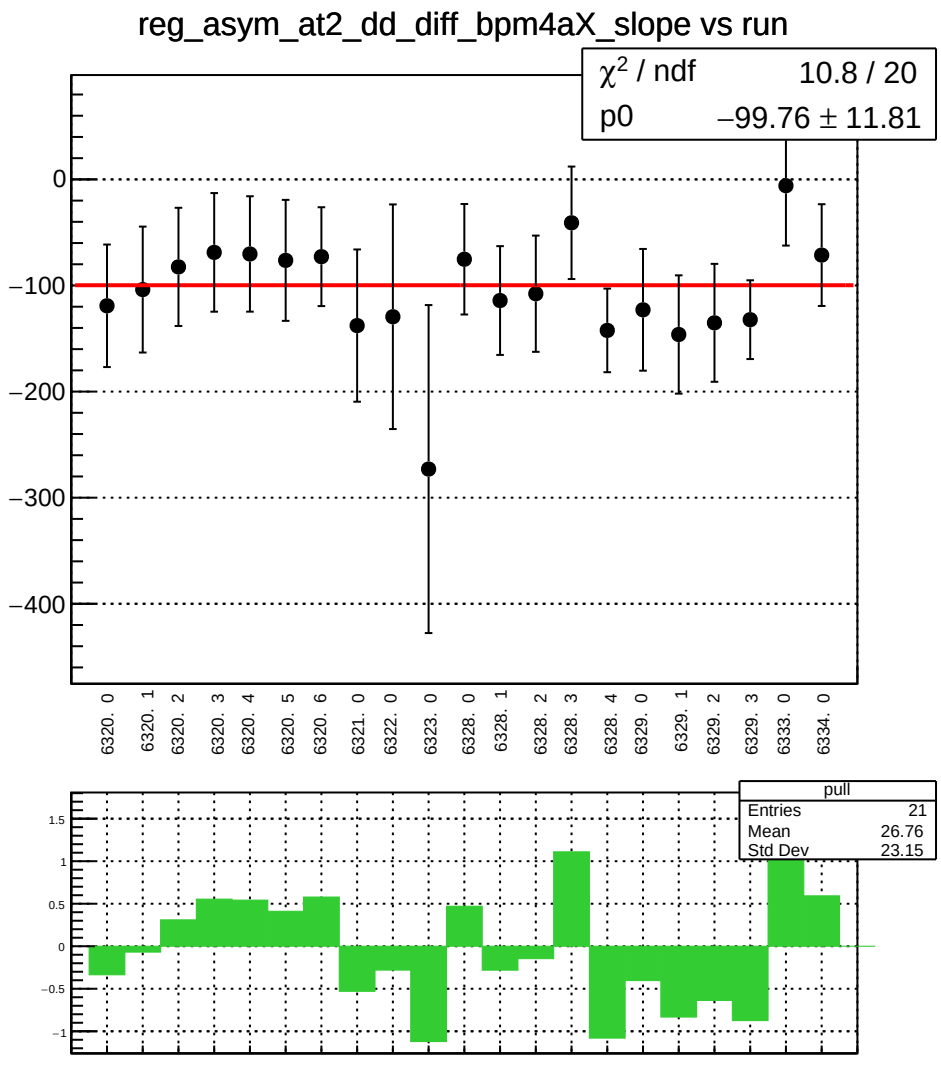

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13 / 20
p0 896.3 ± 40.4
1600
1400
1200
1000
800
600
400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 93.56
Std Dev 83.25
1
0.5
0
−0.5
−1

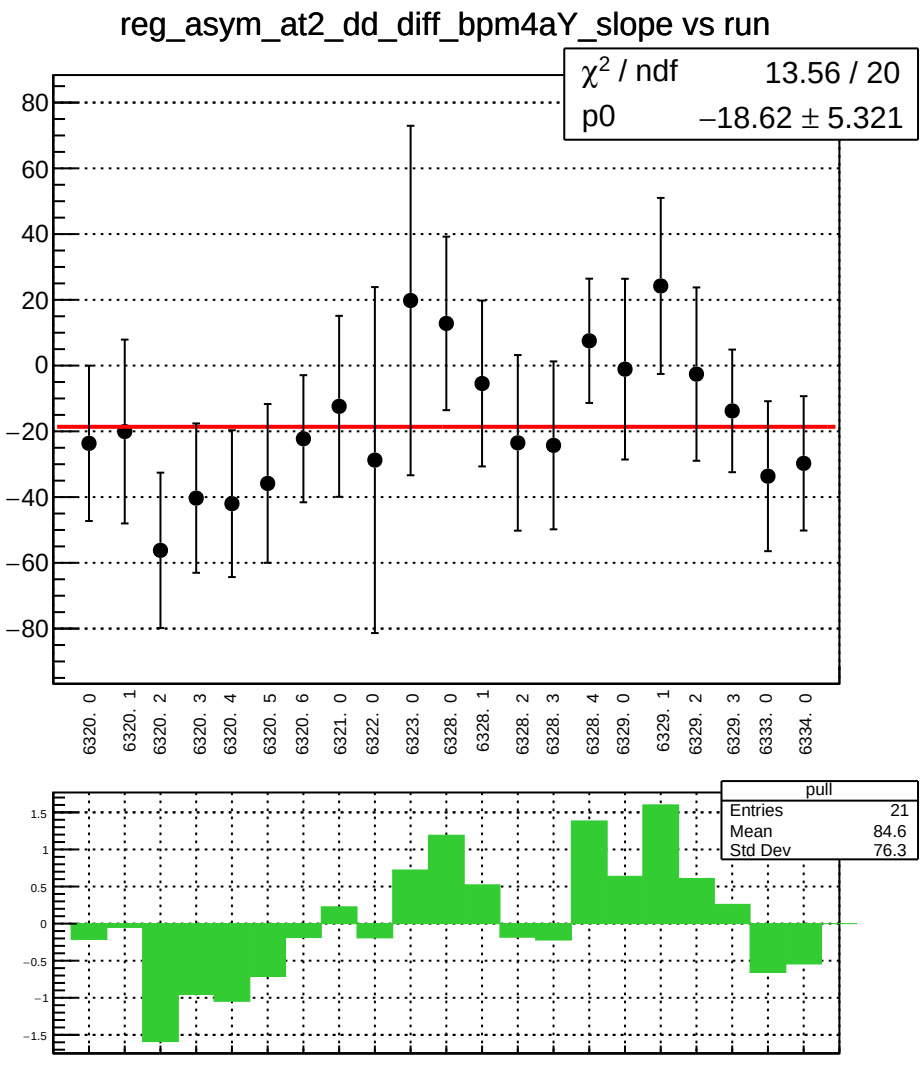

pull1D
Entries 21
Mean −0.04706
Std Dev 0.7855
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

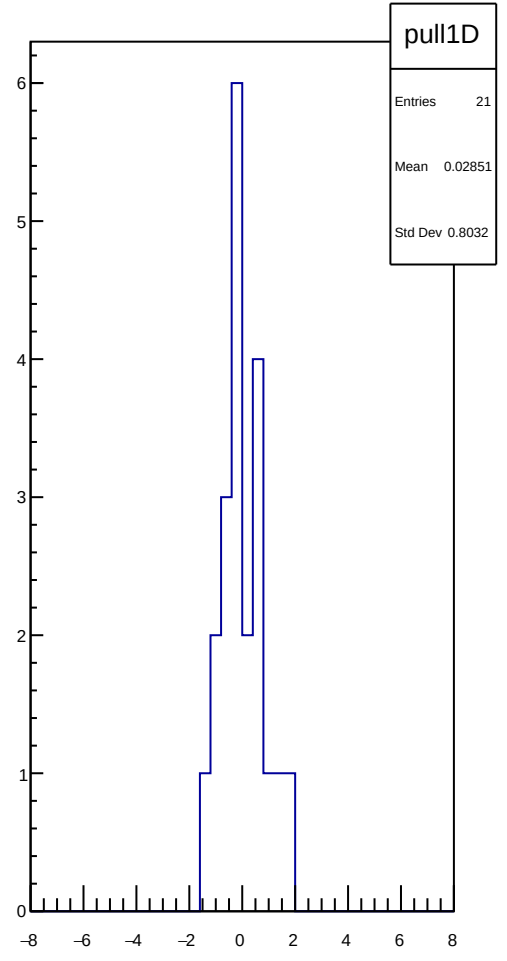

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.126 / 20
p0 195.6 ± 19.33
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 139.2
Std Dev 128.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean 0.02197
Std Dev 0.5396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

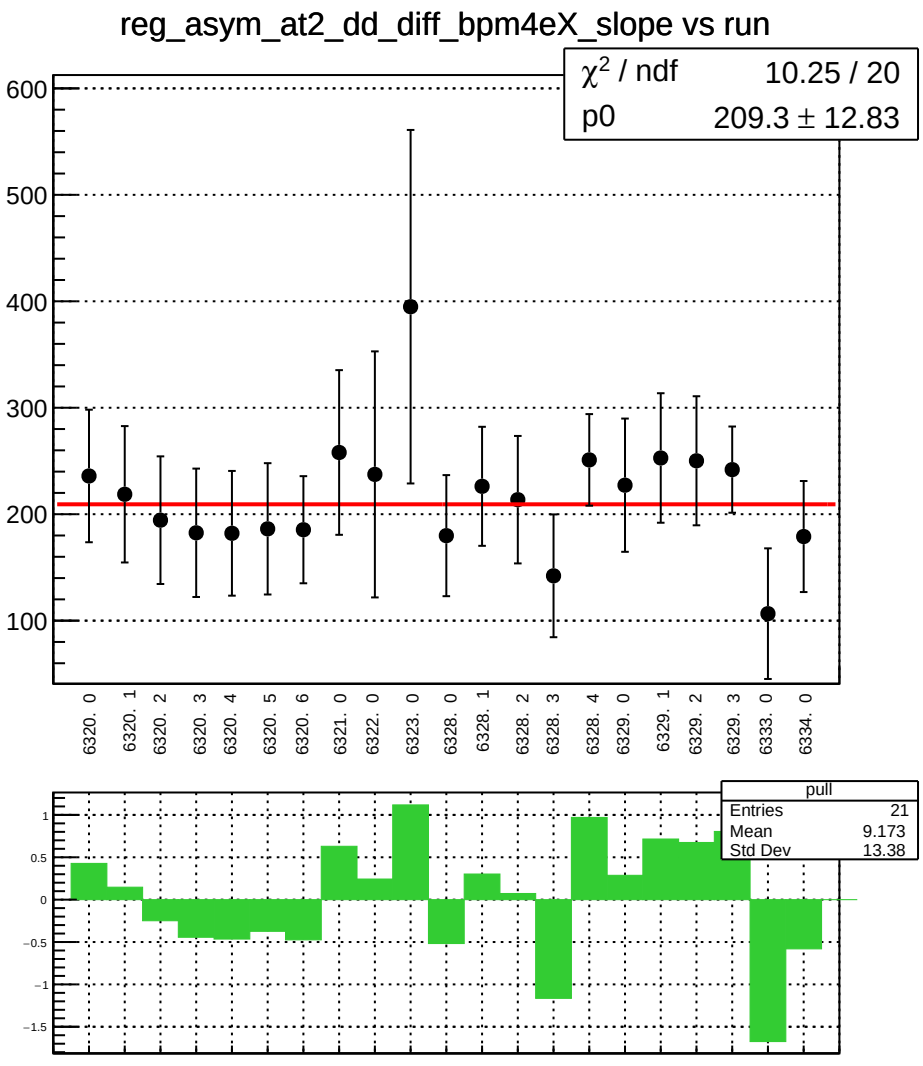

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 359.6 / 20
p0 −353.9 ± 1.122
−310
−320
−330
−340
−350
−360
−370
−380
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −21.53
Std Dev 30.89
6
4
2
0
−2
−4

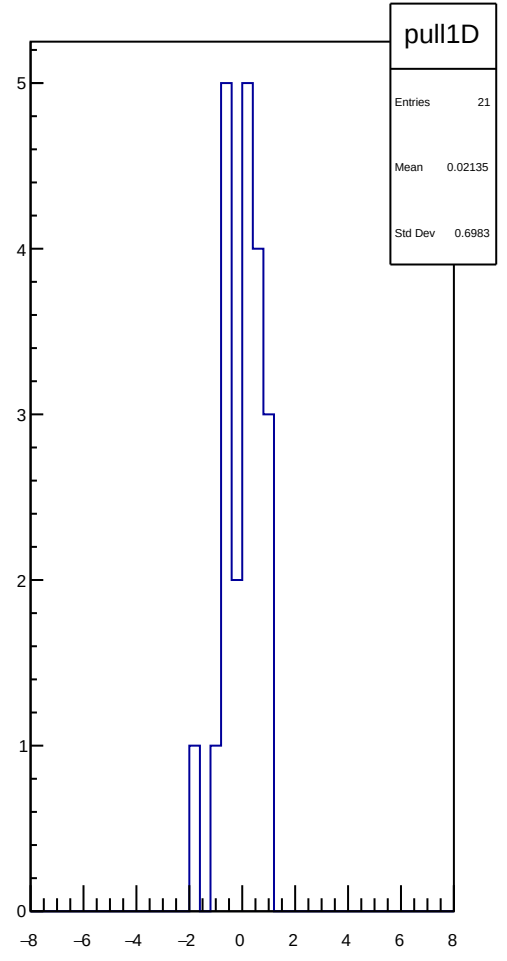

pull1D
Entries 21
Mean 0.6718
Std Dev 4.083
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

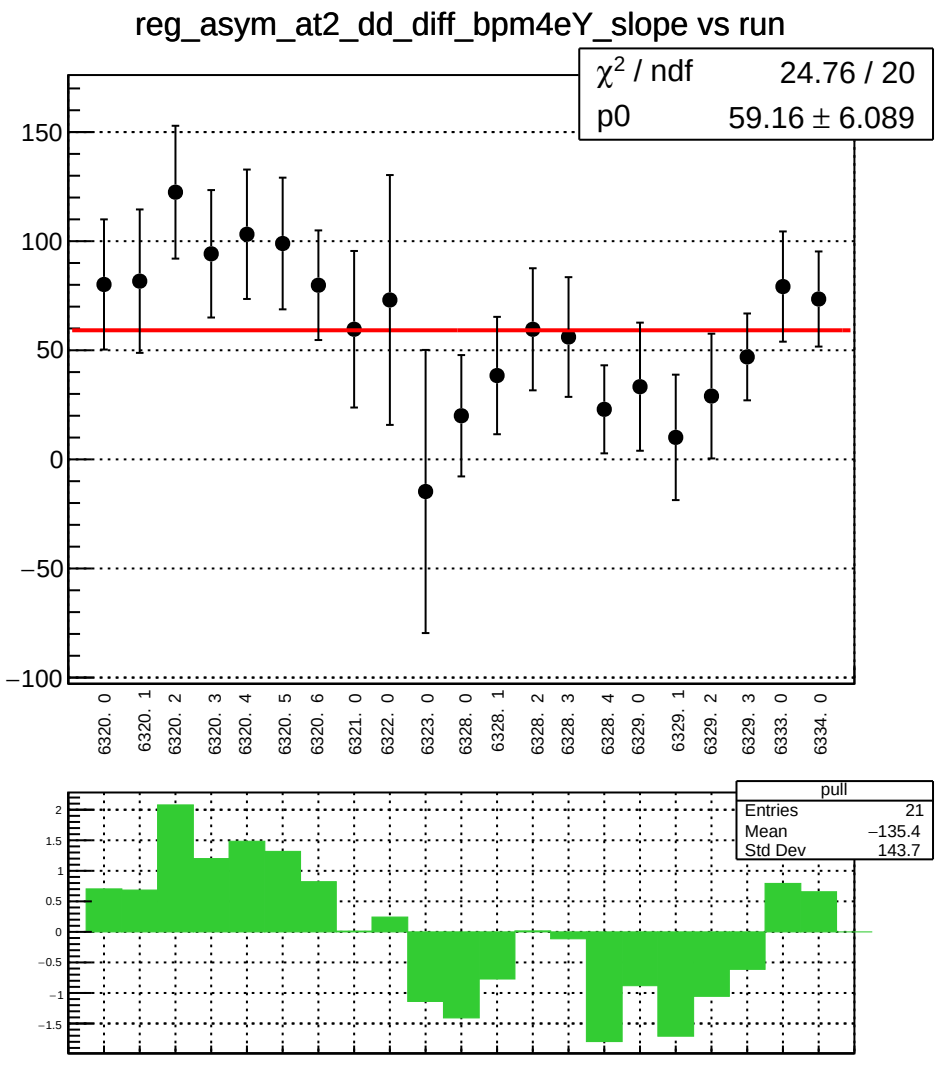

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.8 / 20
p0 −99.76 ± 11.81
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 26.76
Std Dev 23.15
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.01724
Std Dev 0.7168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

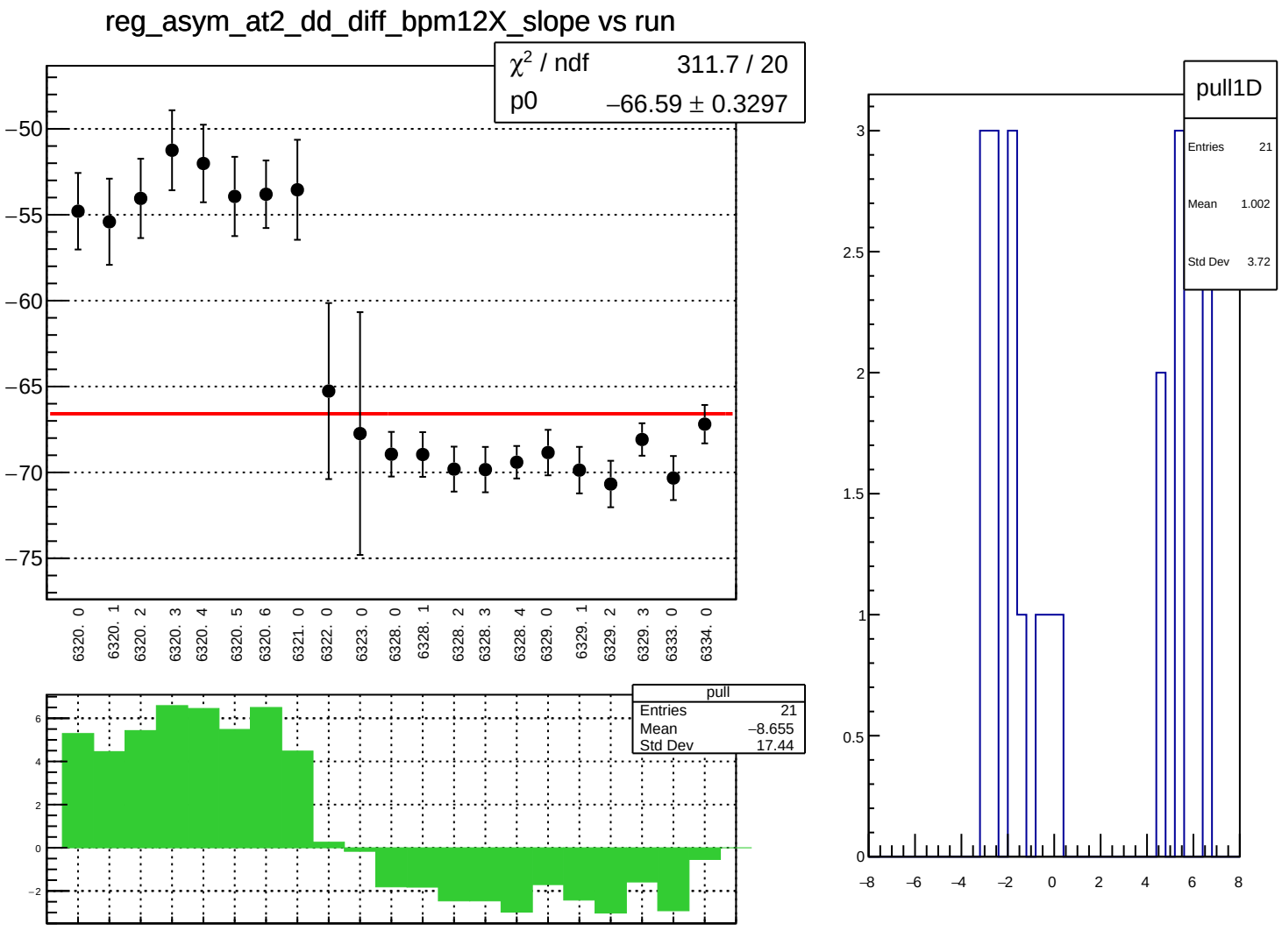

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.56 / 20
p0 −18.62 ± 5.321
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 84.6
Std Dev 76.3
1.5
1
0.5
0
−0.5
−1
−1.5

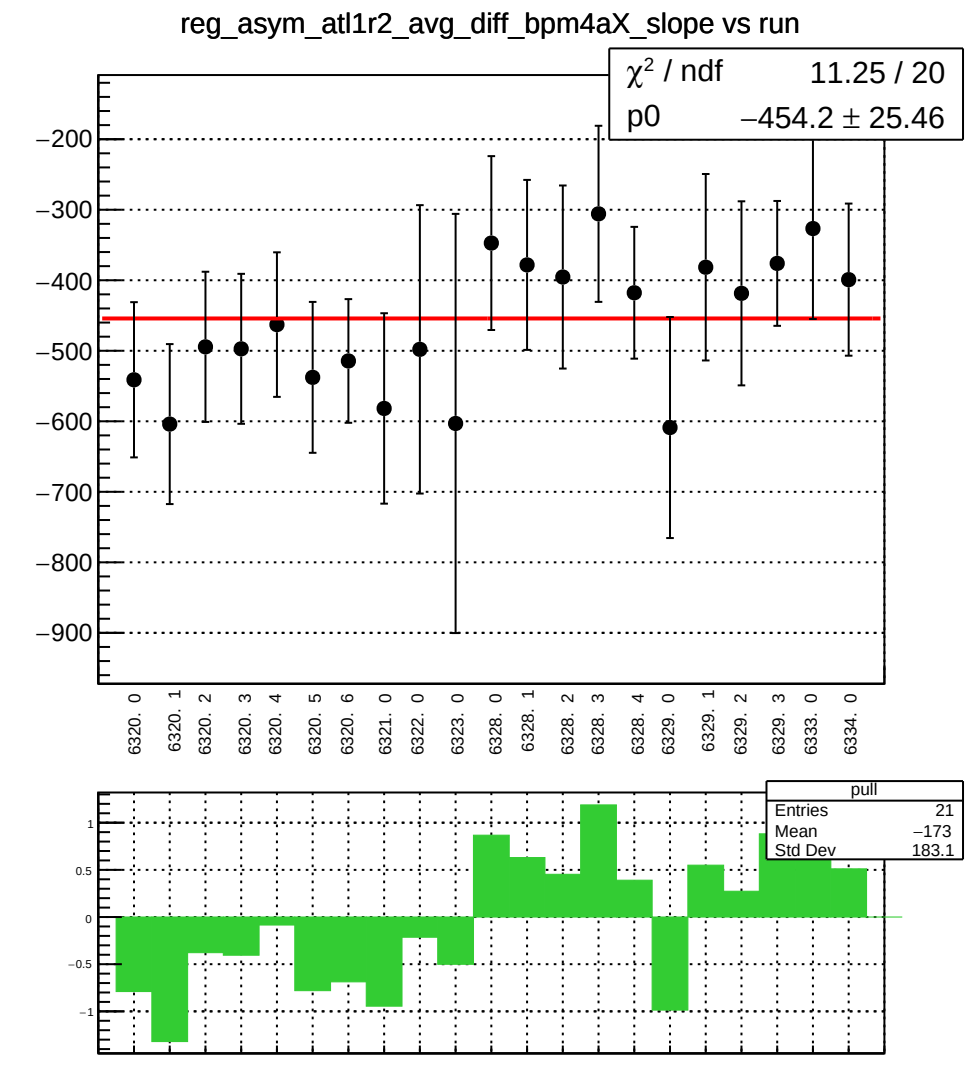

pull1D
Entries 21
Mean 0.02851
Std Dev 0.8032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

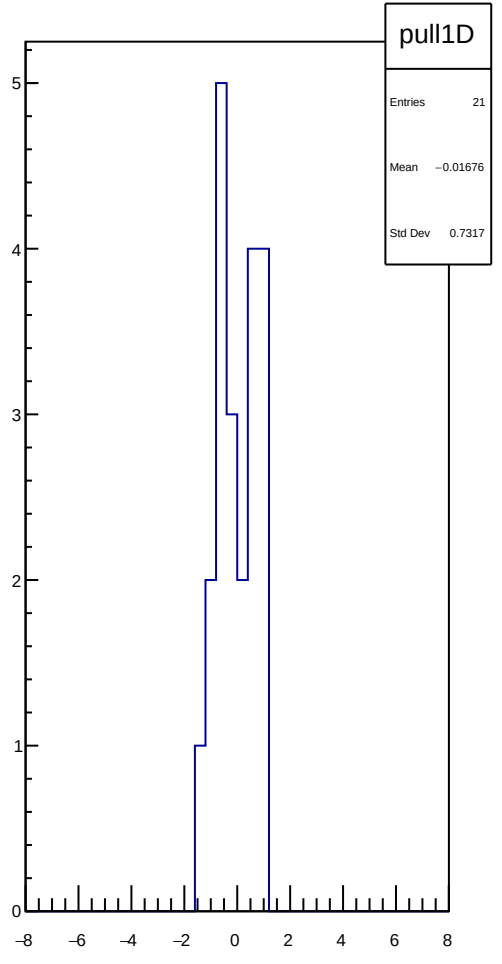

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.25 / 20
p0 209.3 ± 12.83
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 9.173
Std Dev 13.38
1
0.5
0
−0.5
−1
−1.5

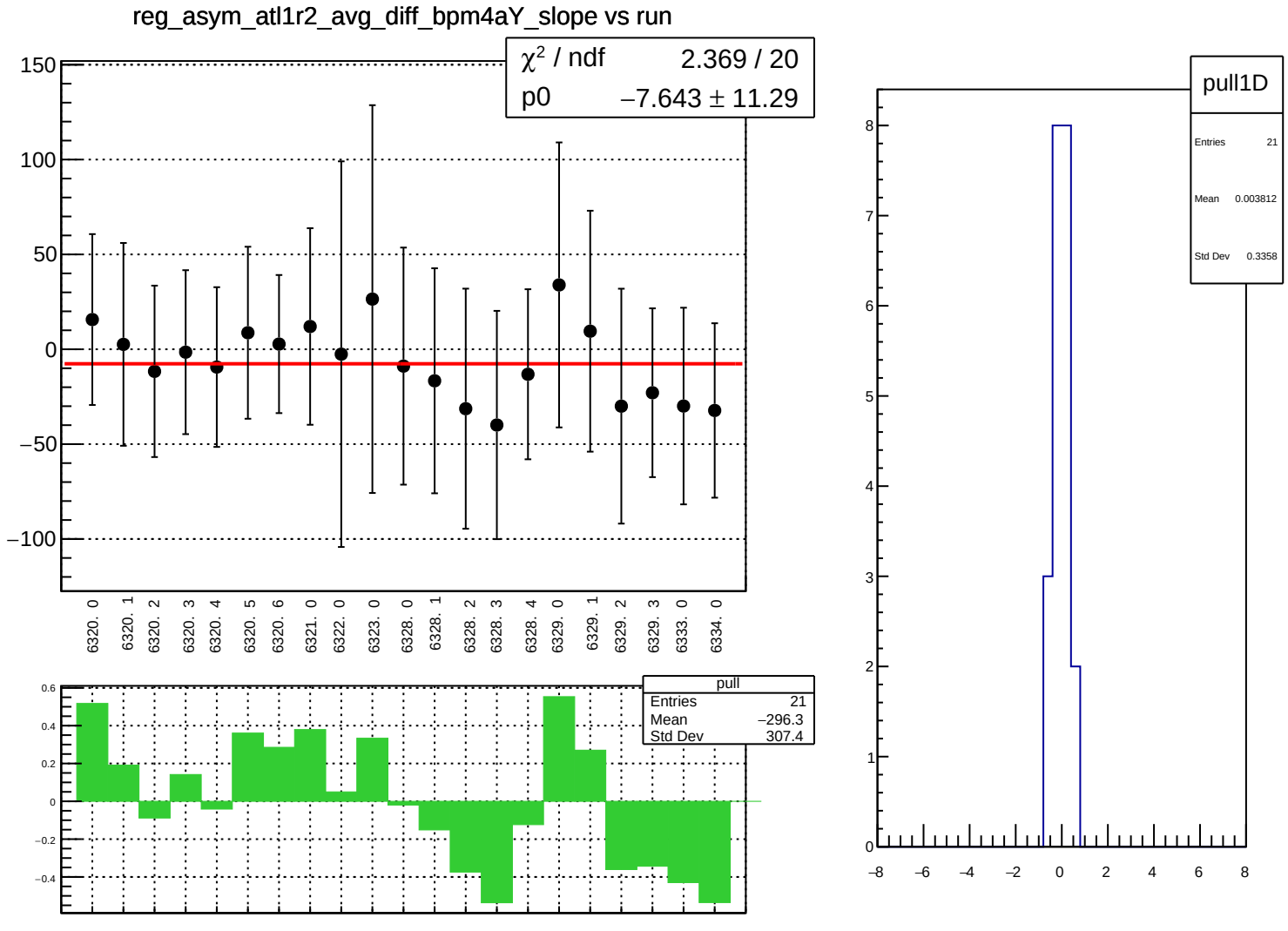

pull1D
Entries 21
Mean 0.02135
Std Dev 0.6983
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

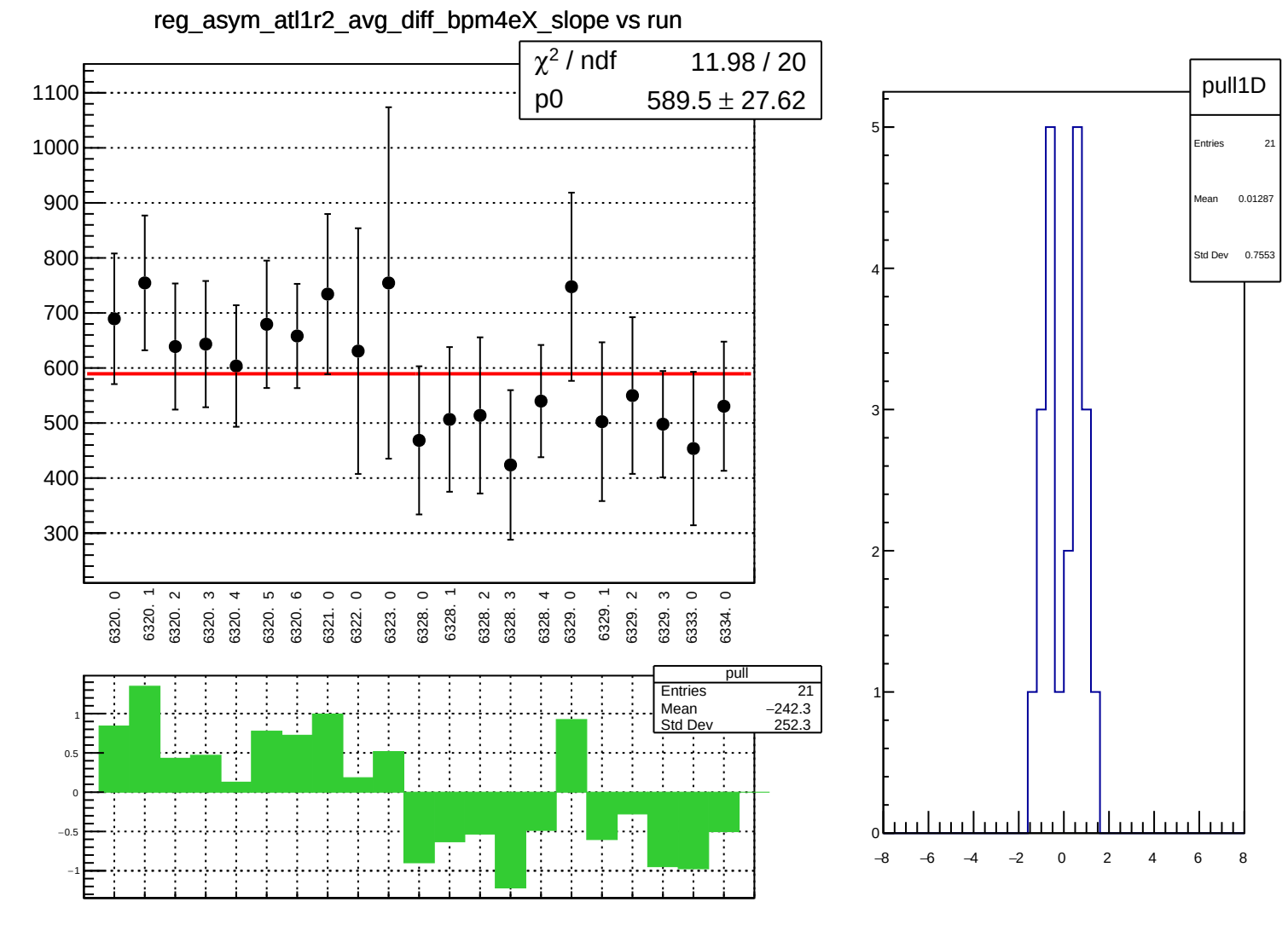

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.76 / 20
p0 59.16 ± 6.089
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −135.4
Std Dev 143.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.02543
Std Dev 1.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

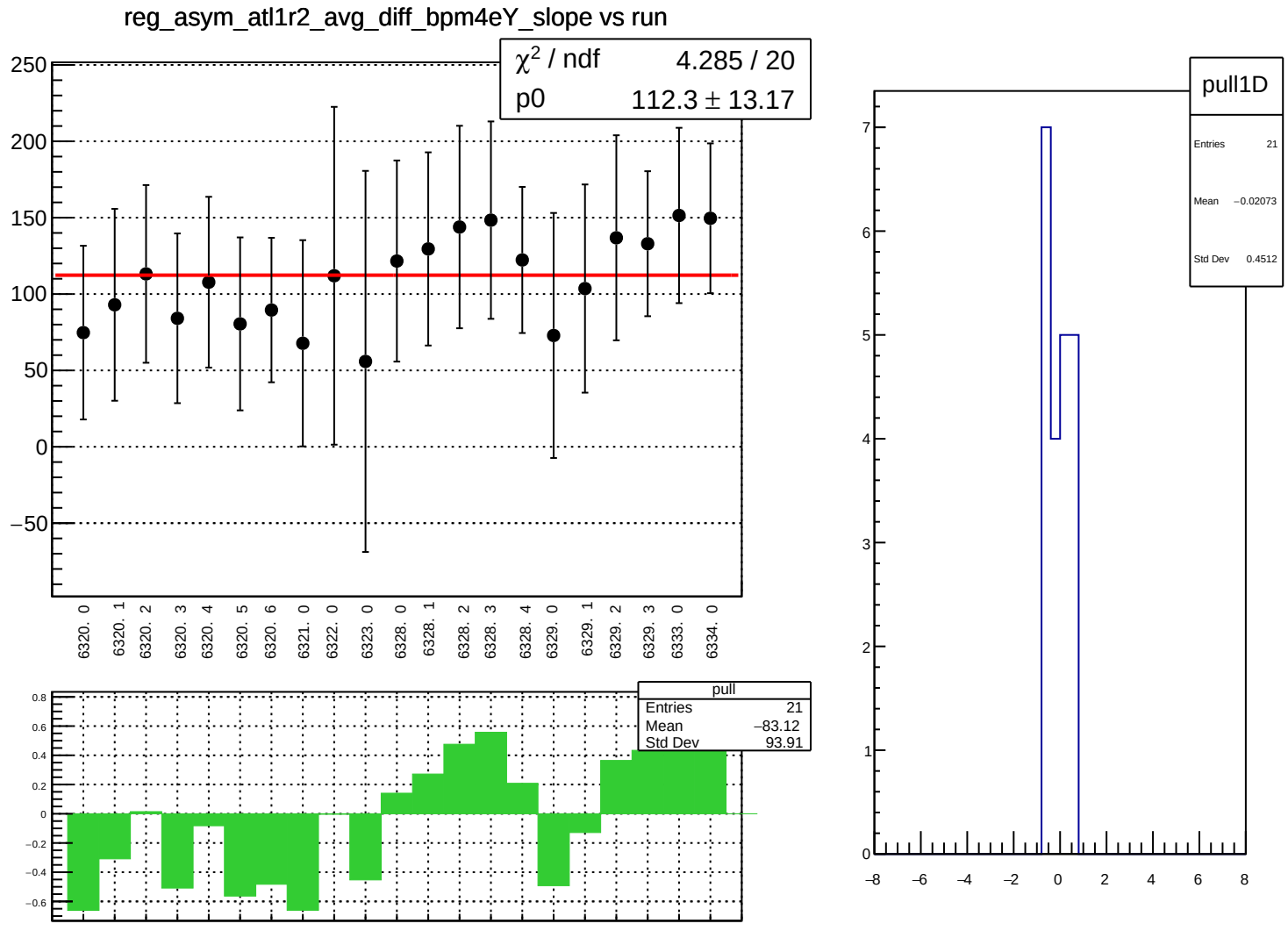

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 311.7 / 20
p0 −66.59 ± 0.3297
−50
−55
−60
−65
−70
−75
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.655
Std Dev 17.44
6
4
2
0
−2
pull1D
Entries 21
Mean 1.002
Std Dev 3.72
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

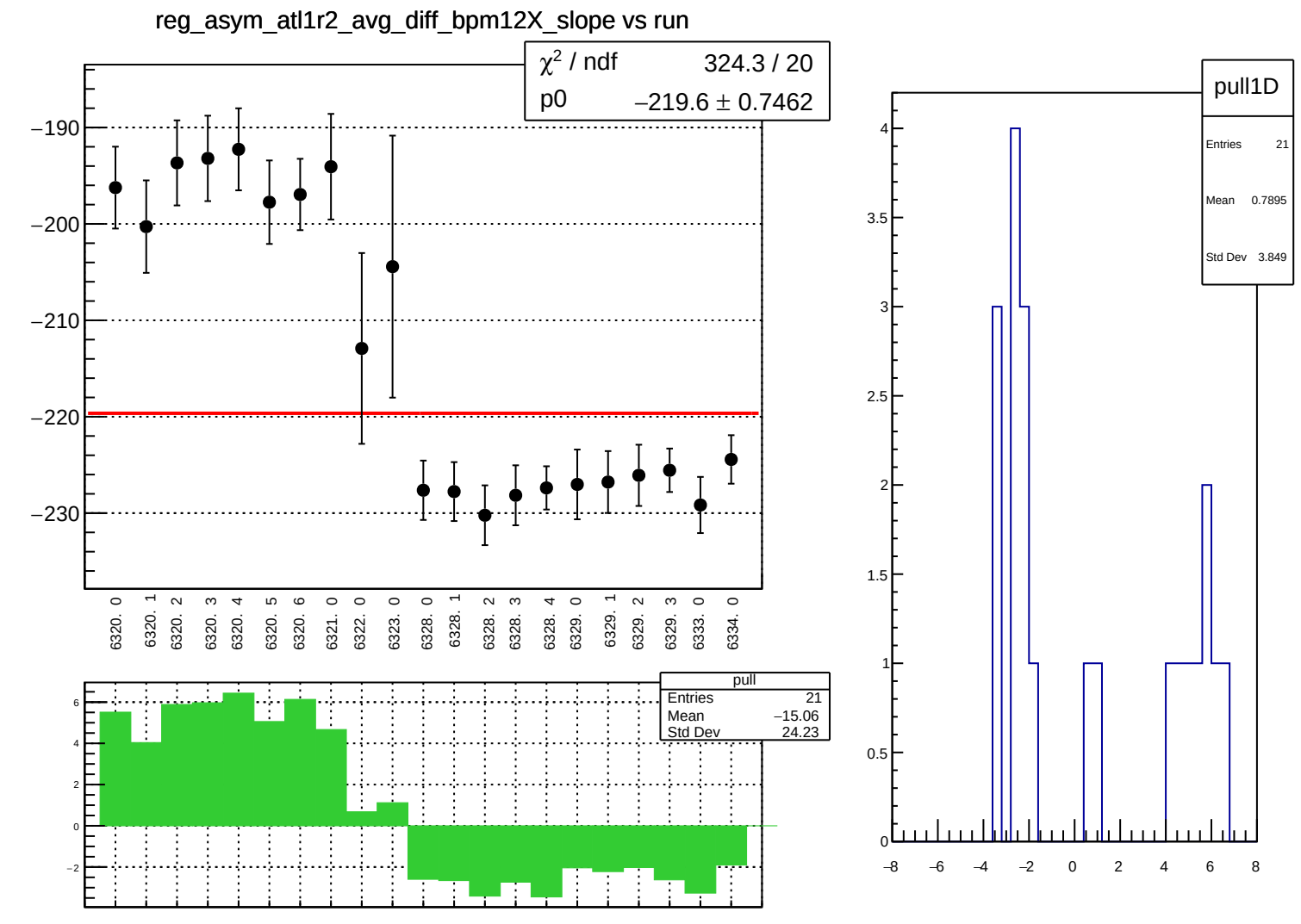

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.25 / 20
p0 −454.2 ± 25.46
−200
−300
−400
−500
−600
−700
−800
−900
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −173
Std Dev 183.1
1
0.5
0
−0.5
−1

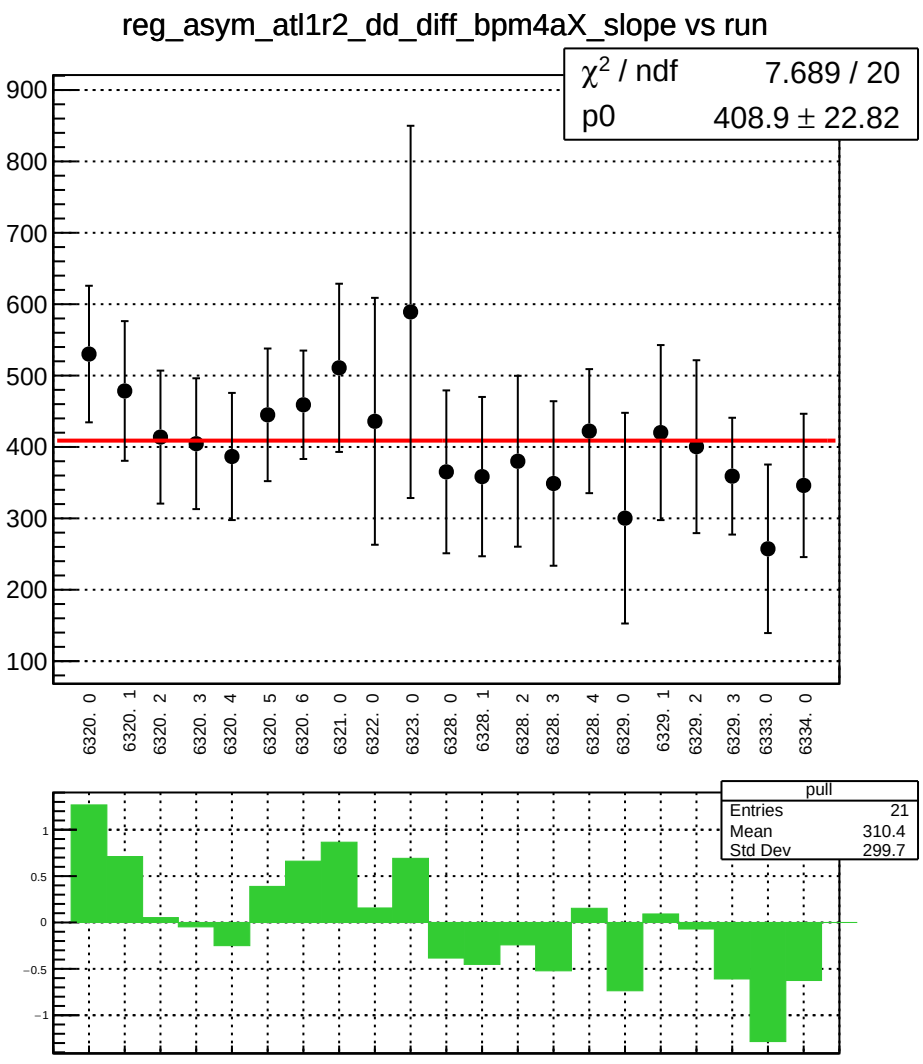

pull1D
Entries 21
Mean −0.01676
Std Dev 0.7317
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

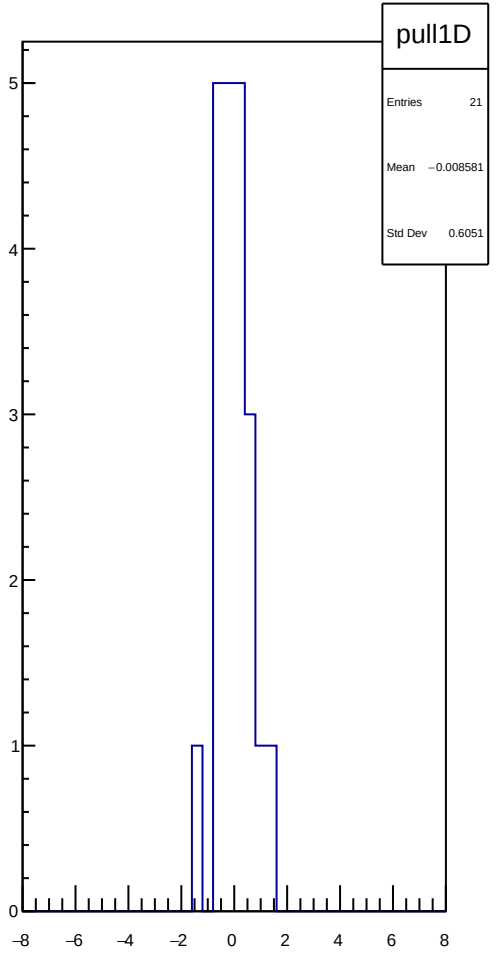

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.369 / 20
p0 −7.643 ± 11.29
150
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −296.3
Std Dev 307.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 21
Mean 0.003812
Std Dev 0.3358
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

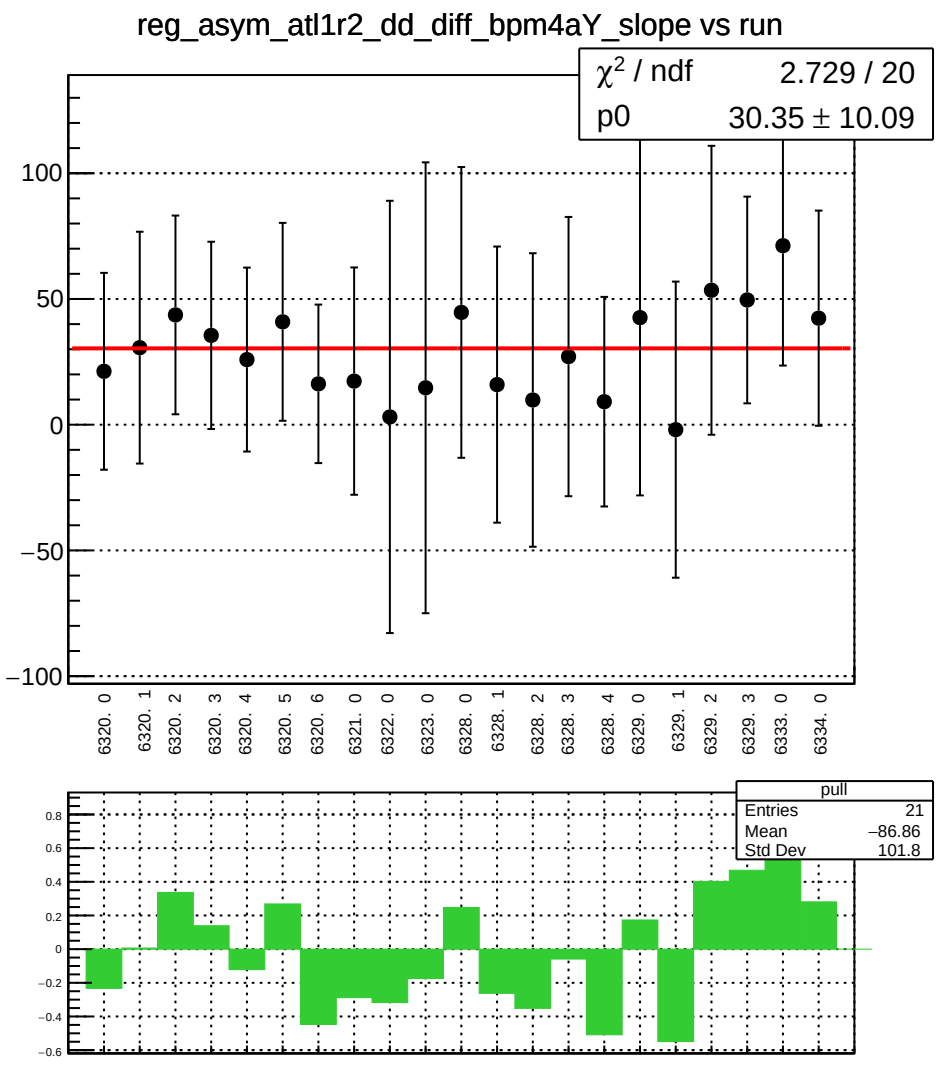

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.98 / 20
p0 589.5 ± 27.62
1100
1000
900
800
700
600
500
400
300
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −242.3
Std Dev 252.3
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.01287
Std Dev 0.7553
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

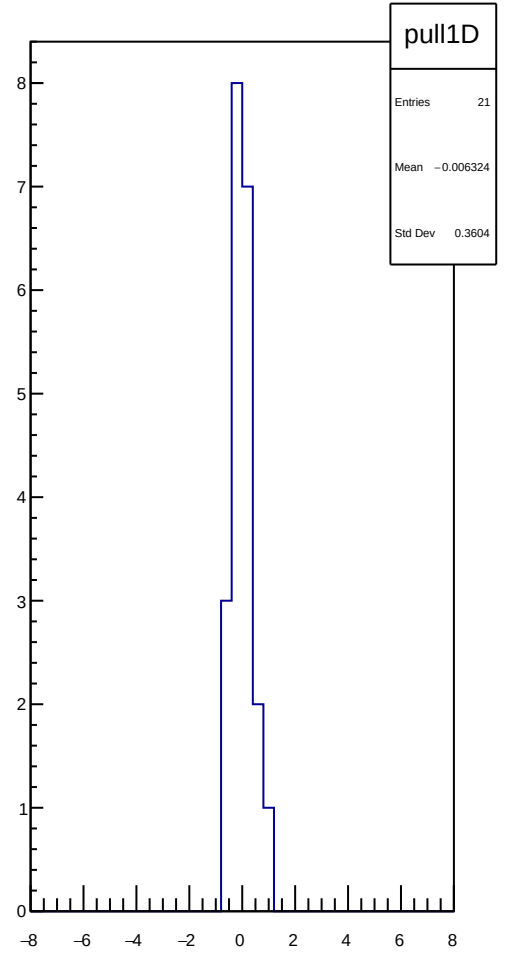

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.285 / 20
p0 112.3 ± 13.17
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −83.12
Std Dev 93.91
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 21
Mean −0.02073
Std Dev 0.4512
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

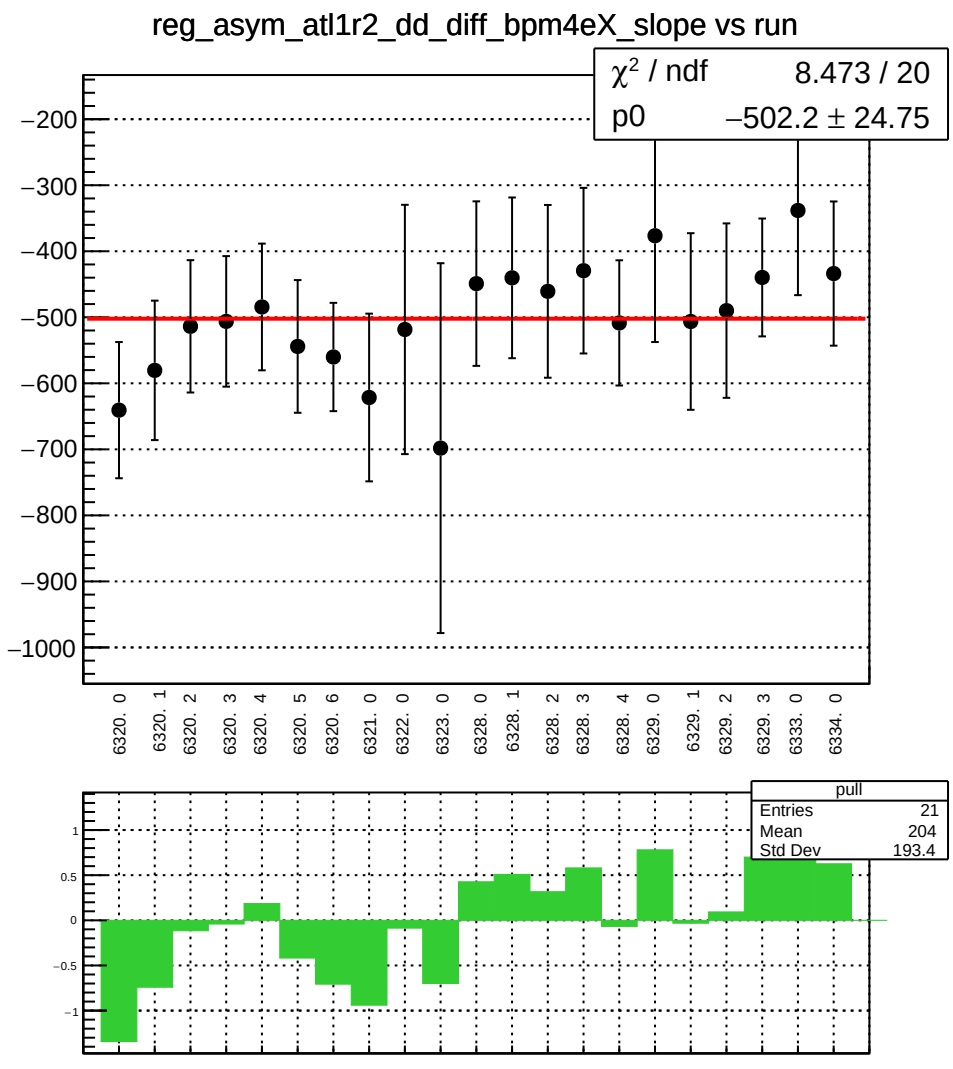

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 324.3 / 20
p0 −219.6 ± 0.7462
−190
−200
−210
−220
−230
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −15.06
Std Dev 24.23
6
4
2
0
−2
pull1D
Entries 21
Mean 0.7895
Std Dev 3.849
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

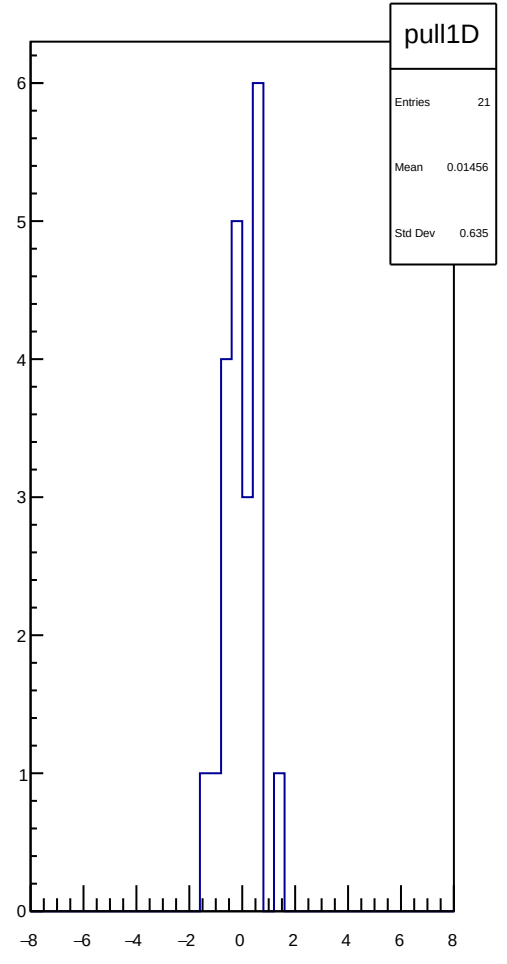

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.689 / 20
p0 408.9 ± 22.82
900
800
700
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 310.4
Std Dev 299.7
1
0.5
0
−0.5
−1

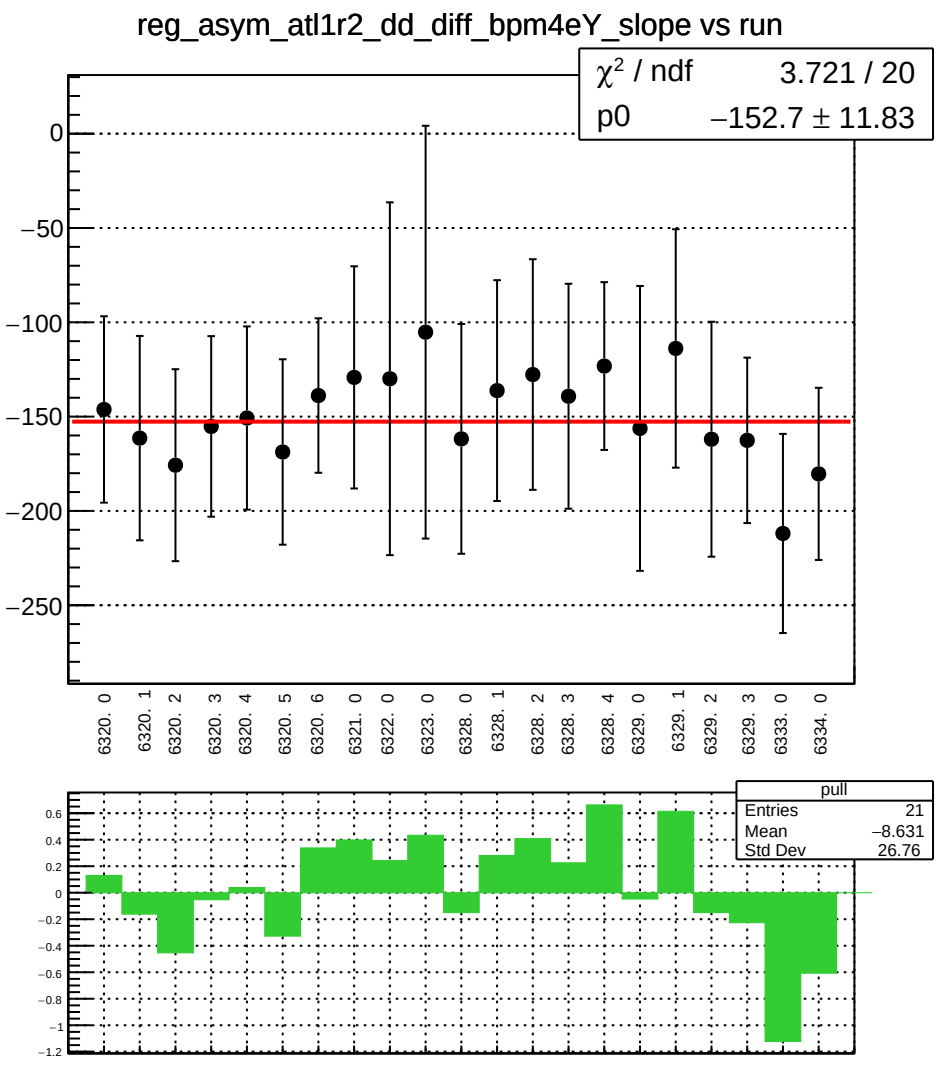

pull1D
Entries 21
Mean −0.008581
Std Dev 0.6051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

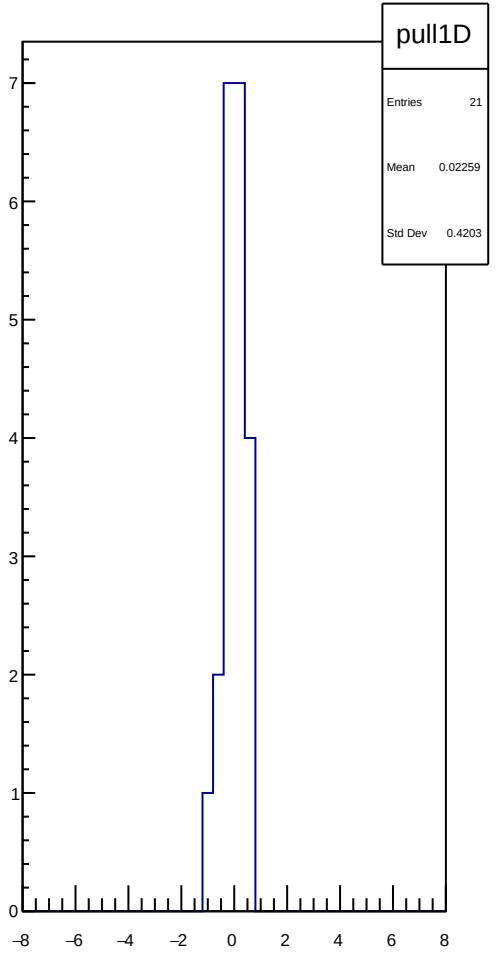

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.729 / 20
p0 30.35 ± 10.09
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −86.86
Std Dev 101.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

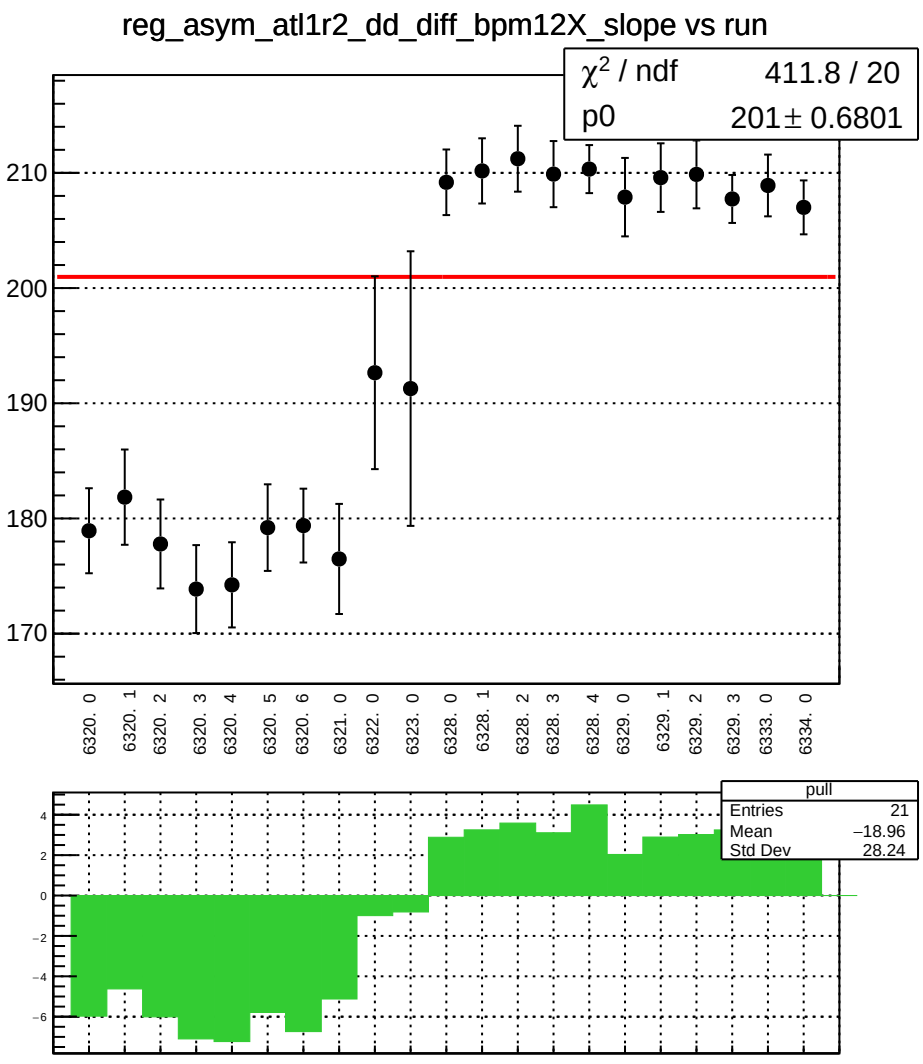

pull1D
Entries 21
Mean −0.006324
Std Dev 0.3604
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

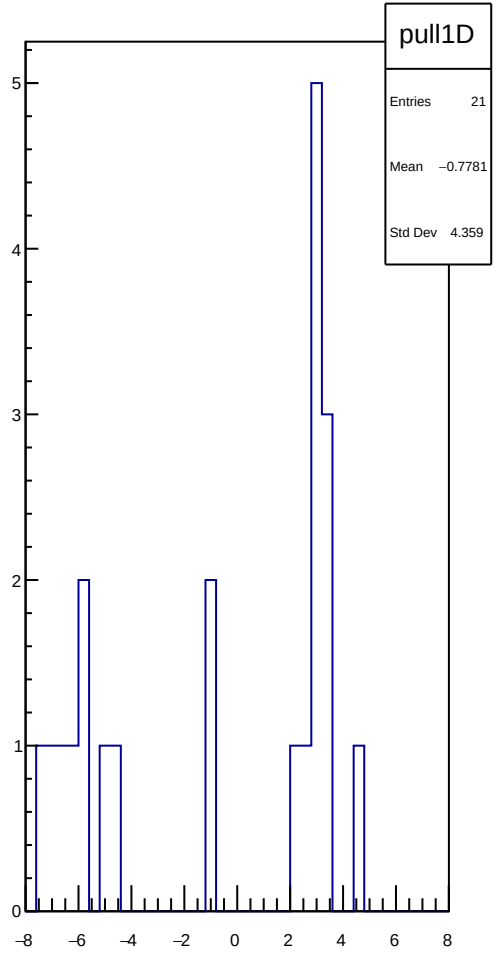

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.473 / 20
p0 −502.2 ± 24.75
−200
−300
−400
−500
−600
−700
−800
−900
−1000
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 204
Std Dev 193.4
1
0.5
0
−0.5
−1

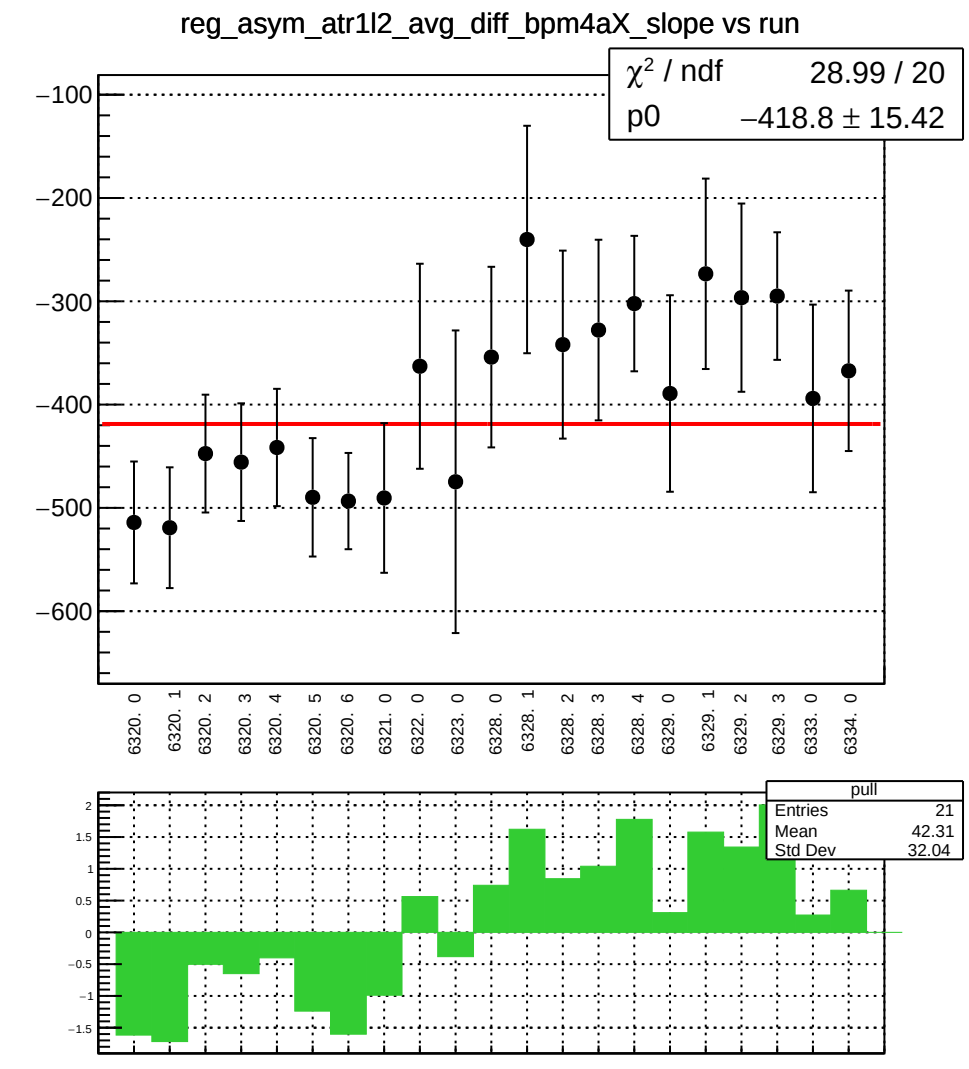

pull1D
Entries 21
Mean 0.01456
Std Dev 0.635
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

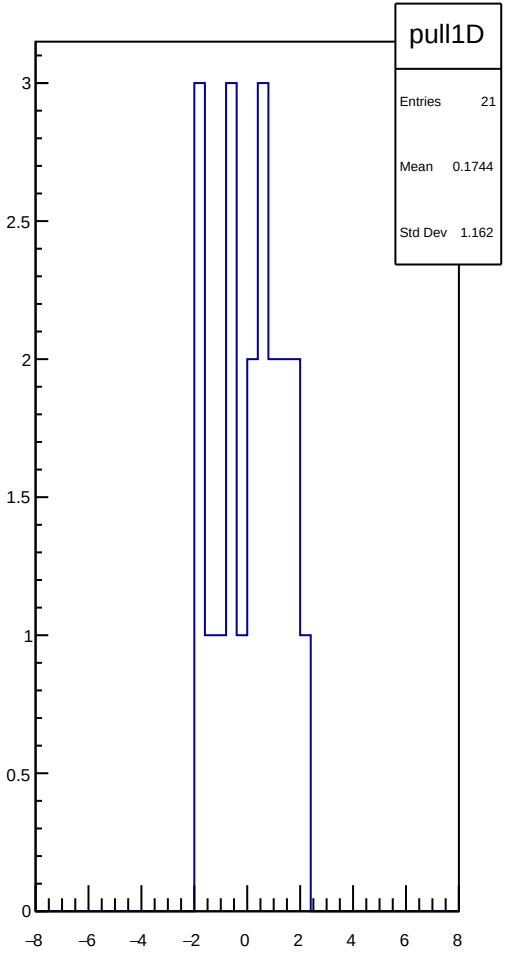

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.721 / 20
p0 −152.7 ± 11.83
0
−50
−100
−150
−200
−250
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −8.631
Std Dev 26.76
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

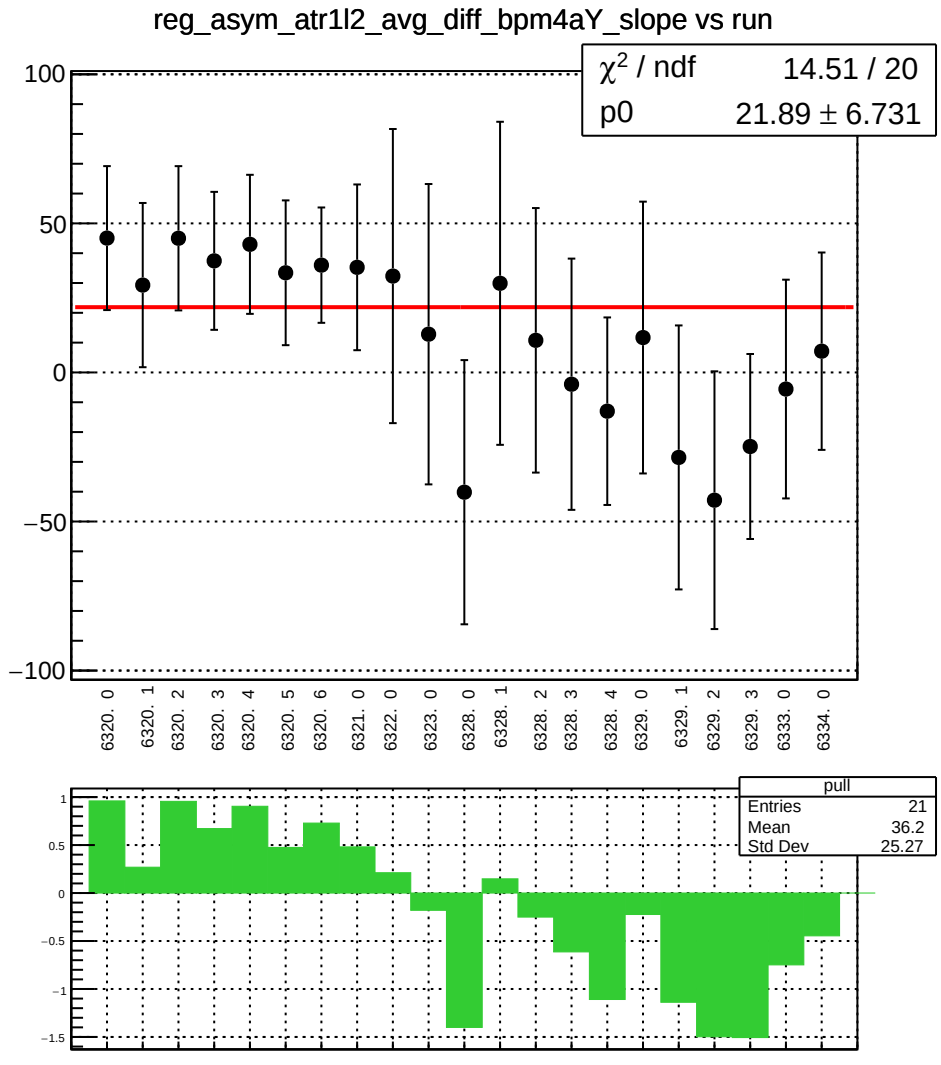

pull1D
Entries 21
Mean 0.02259
Std Dev 0.4203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

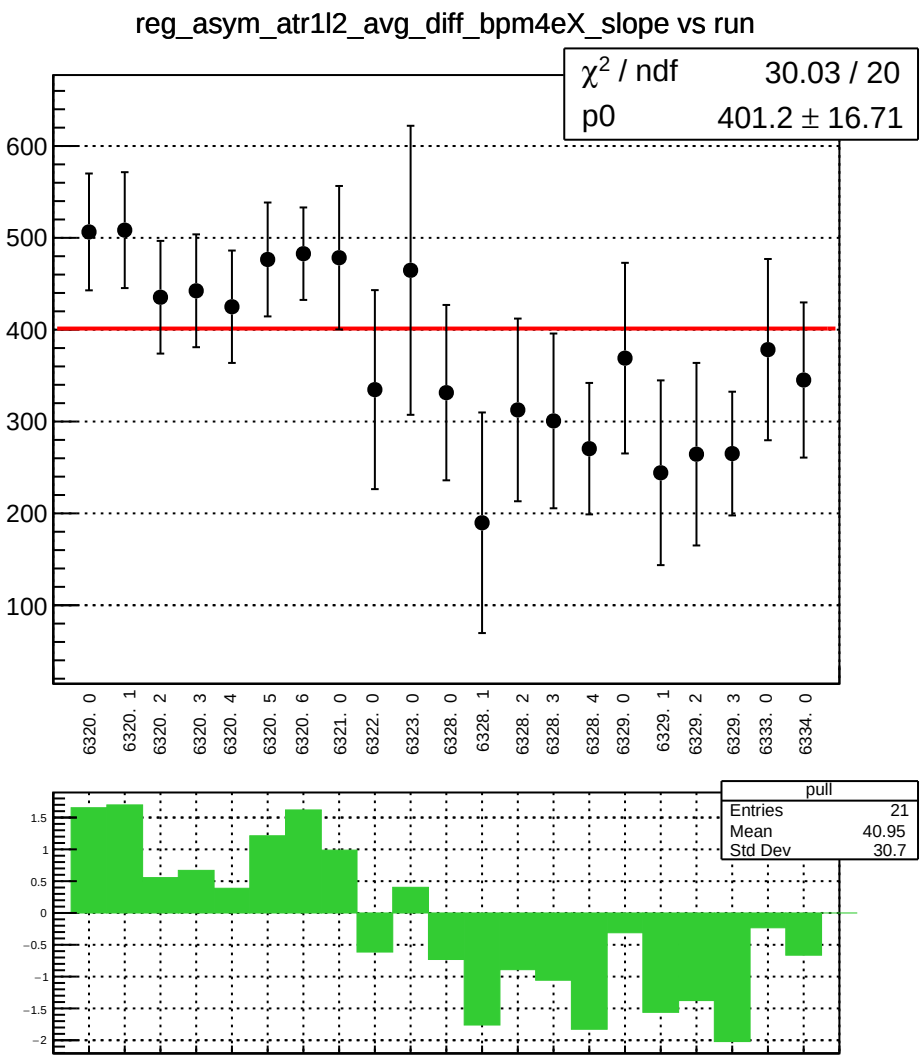

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 411.8 / 20
p0 201 ± 0.6801
210
200
190
180
170
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −18.96
Std Dev 28.24
4
2
0
−2
−4
−6

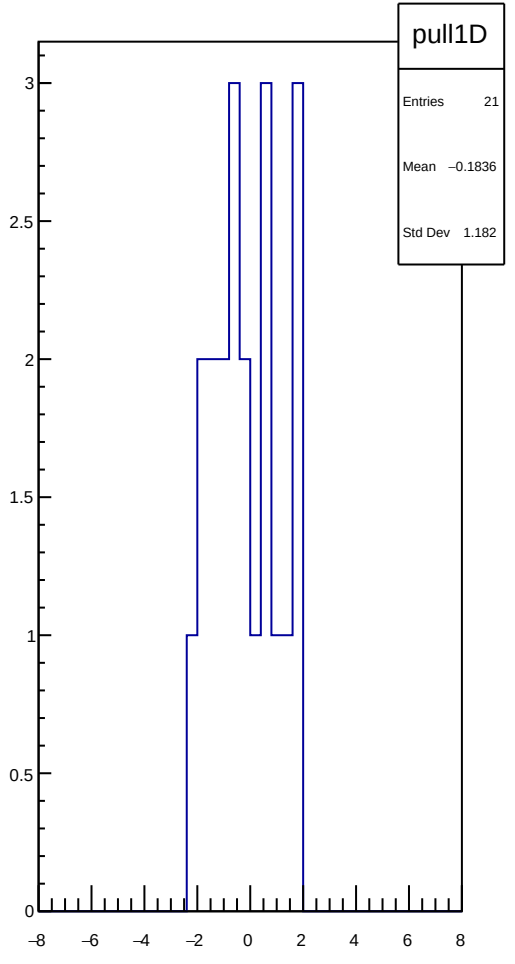

pull1D
Entries 21
Mean −0.7781
Std Dev 4.359
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

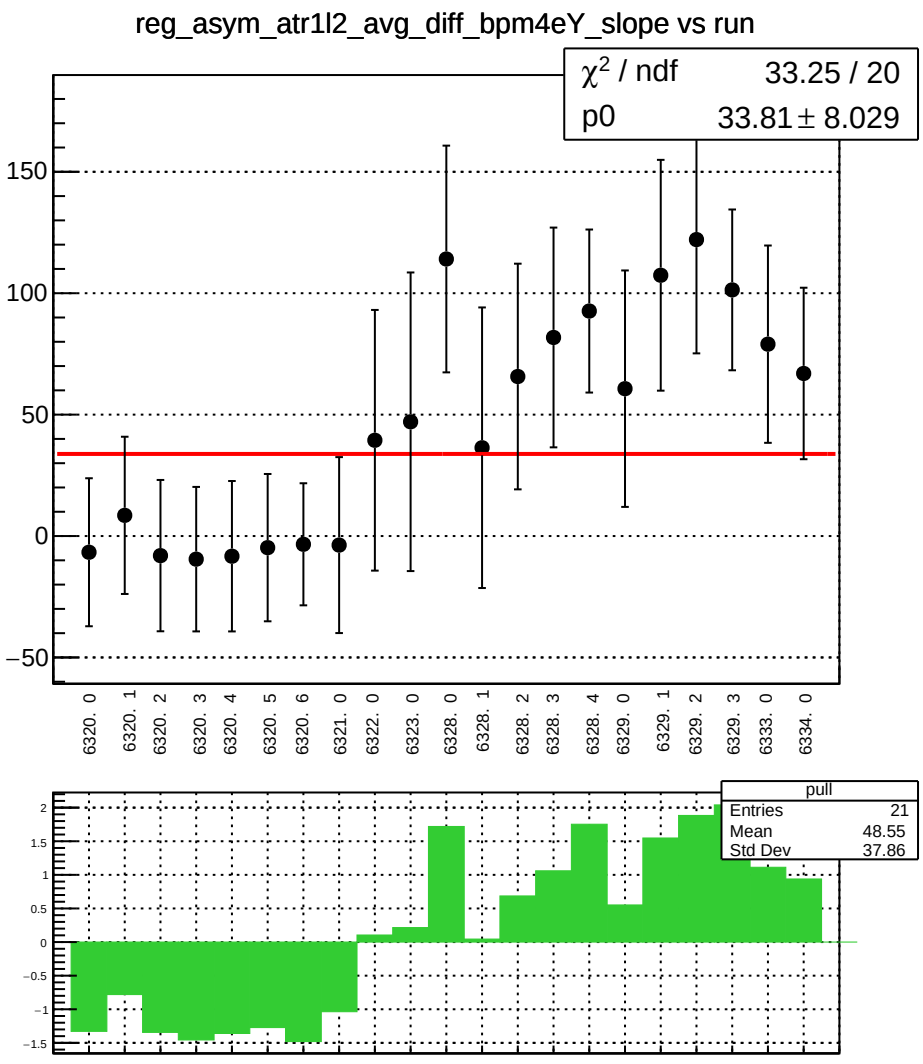

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.99 / 20
p0 −418.8 ± 15.42
−100
−200
−300
−400
−500
−600
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 42.31
Std Dev 32.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

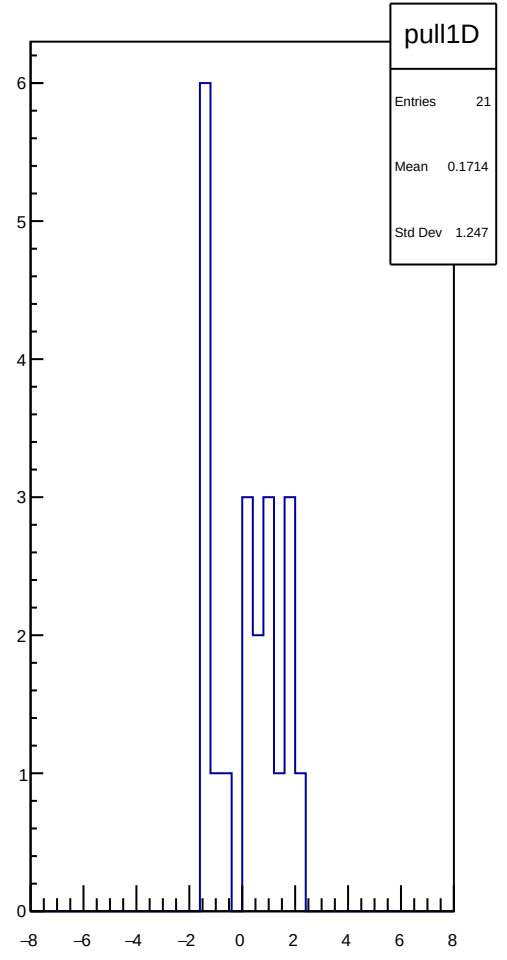

pull1D
Entries 21
Mean 0.1744
Std Dev 1.162
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

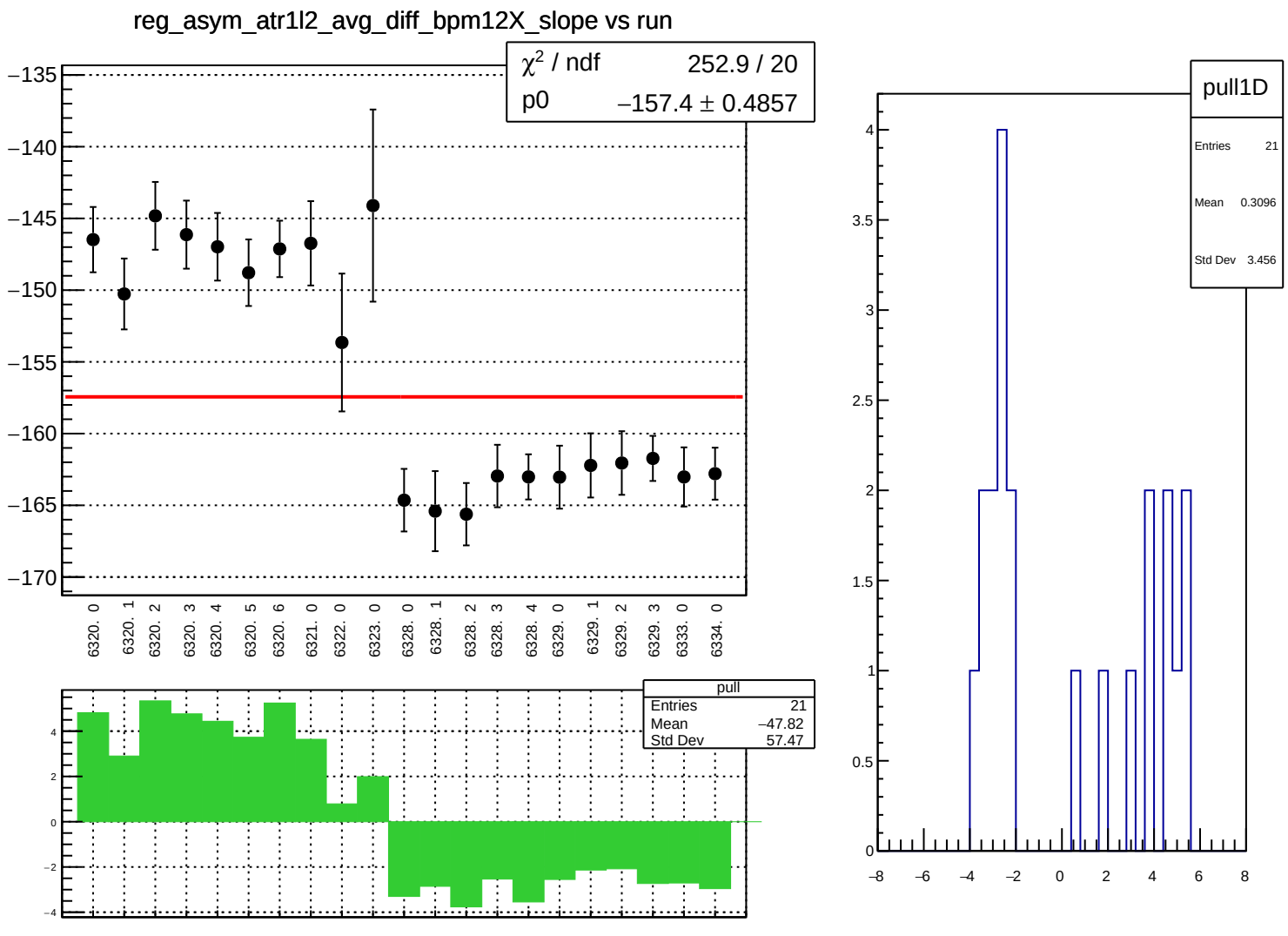

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.51 / 20
p0 21.89 ± 6.731
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 36.2
Std Dev 25.27
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.1576
Std Dev 0.8161
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

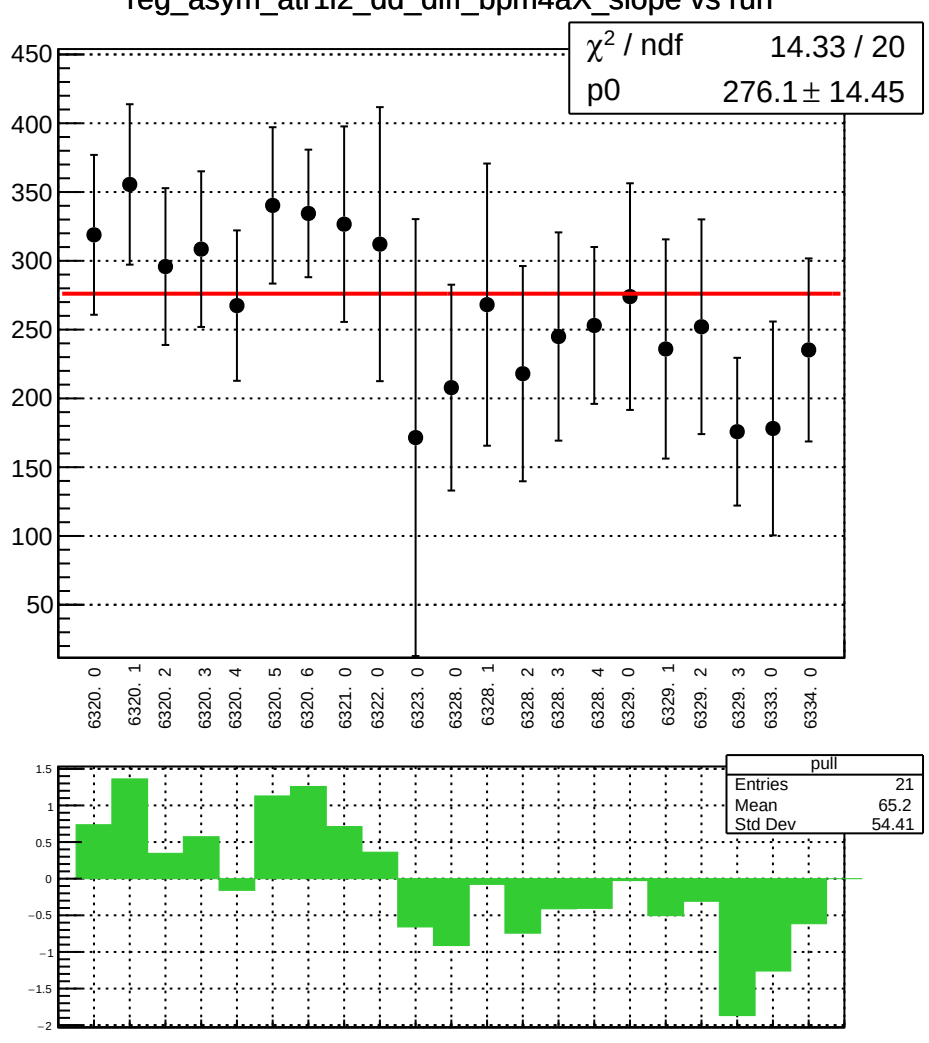

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.03 / 20
p0 401.2 ± 16.71
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 40.95
Std Dev 30.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

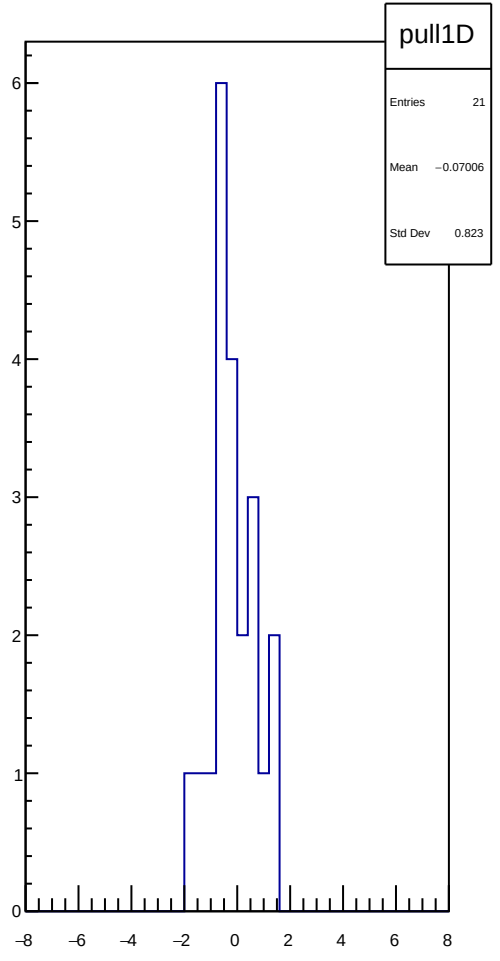

pull1D
Entries 21
Mean −0.1836
Std Dev 1.182
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

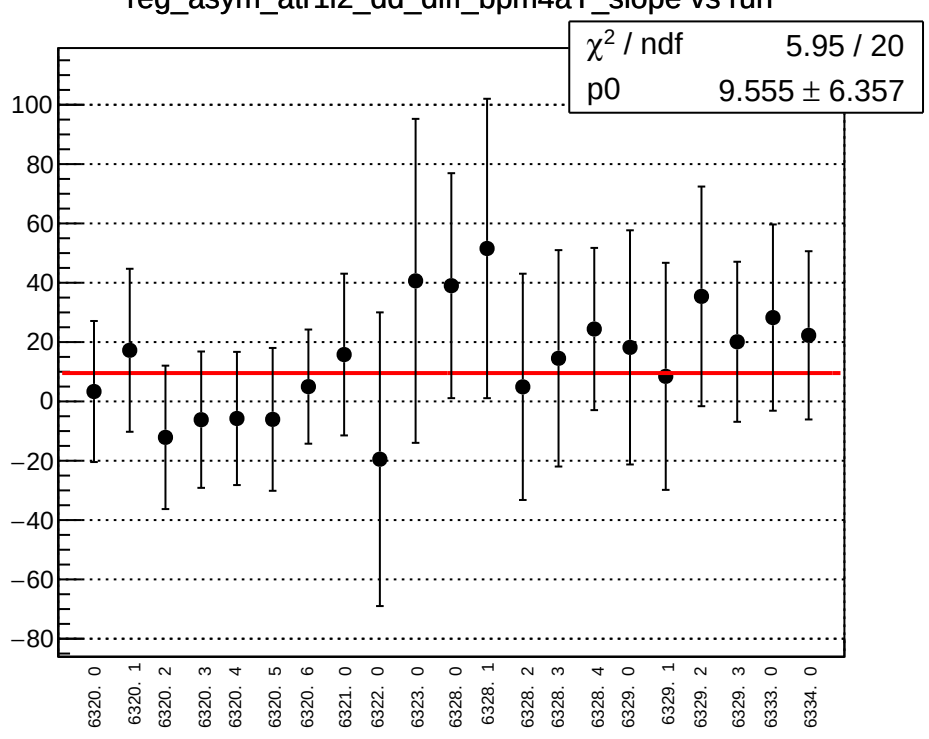

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.25 / 20
p0 33.81 ± 8.029
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 48.55
Std Dev 37.86
2
1.5
1
0.5
0
−0.5
−1
−1.5

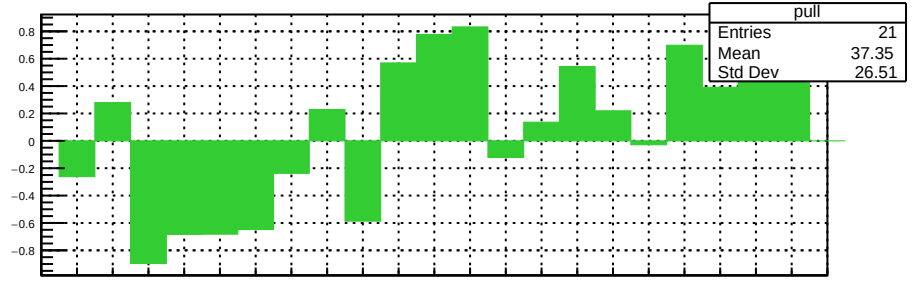

pull1D
Entries 21
Mean 0.1714
Std Dev 1.247
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

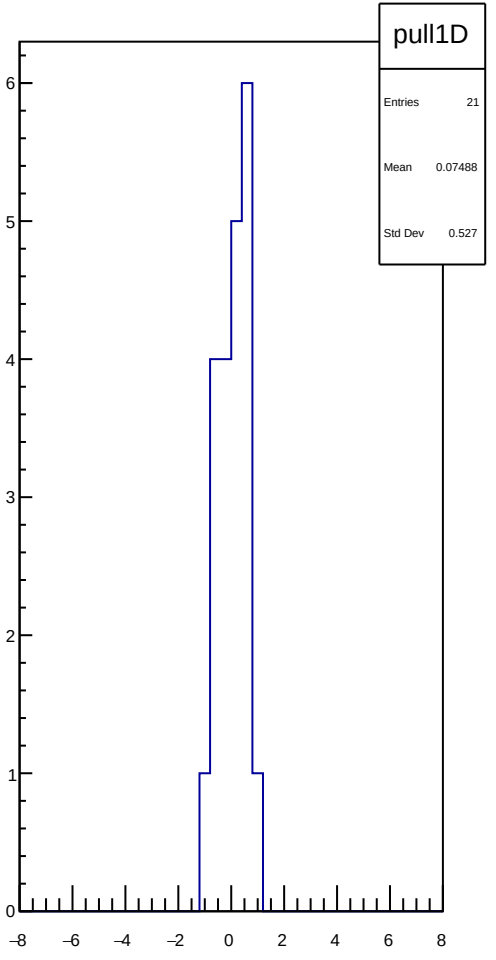

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 252.9 / 20
p0 −157.4 ± 0.4857
−135
−140
−145
−150
−155
−160
−165
−170
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −47.82
Std Dev 57.47
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.3096
Std Dev 3.456
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

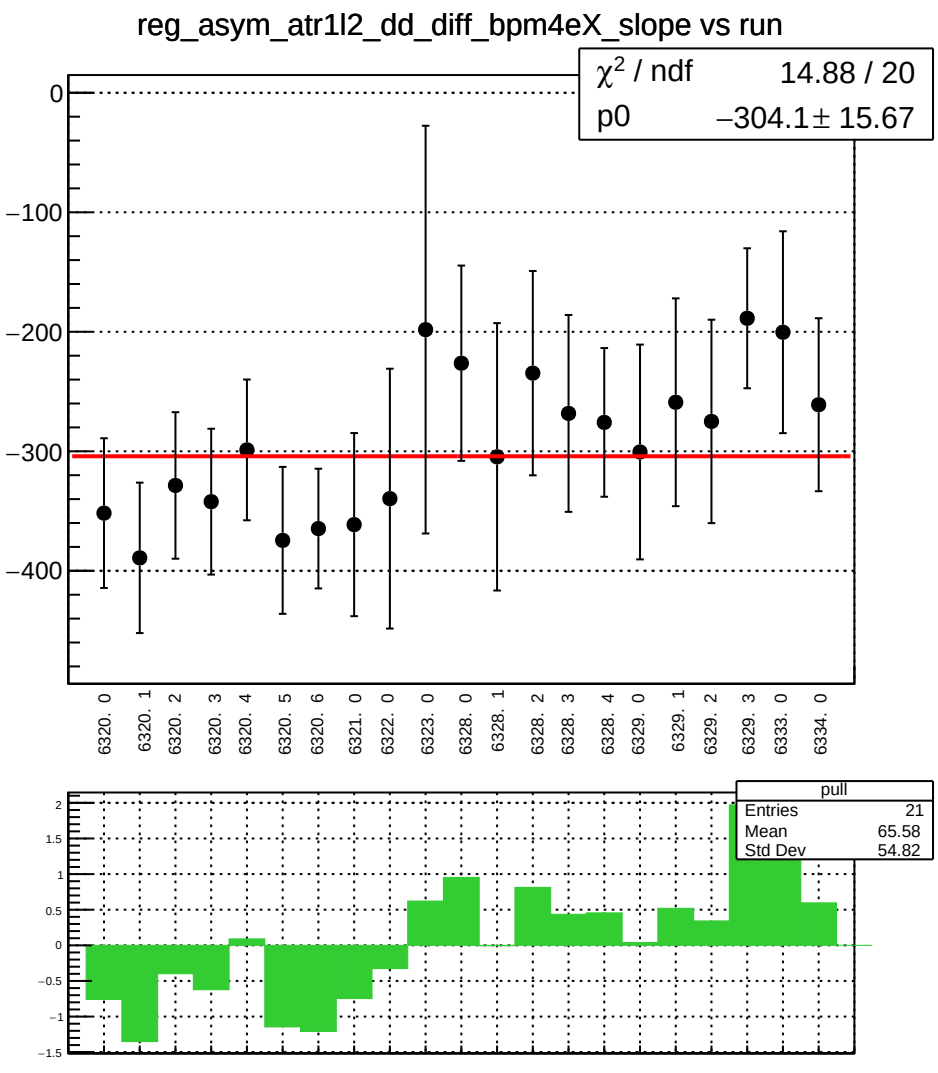

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.33 / 20
p0 276.1 ± 14.45
450
400
350
300
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 65.2
Std Dev 54.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

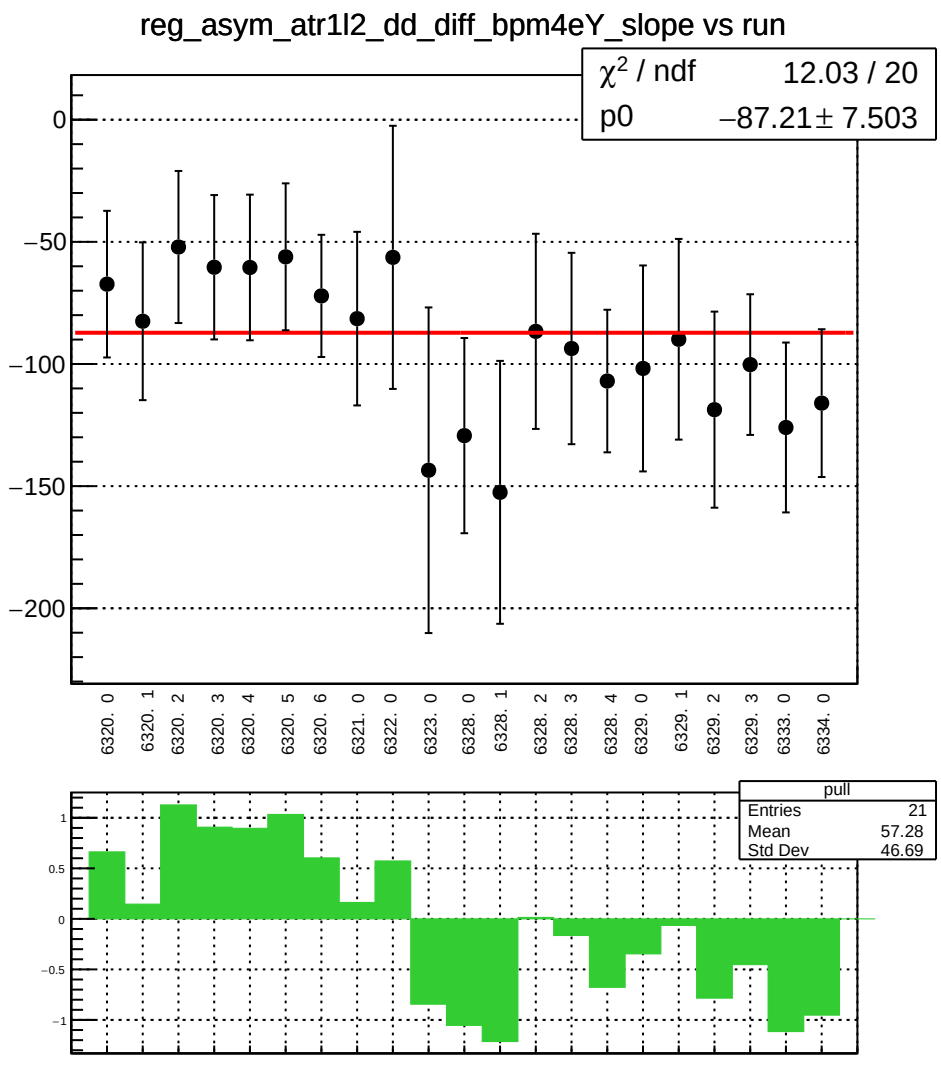

pull1D
Entries 21
Mean −0.07006
Std Dev 0.823
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

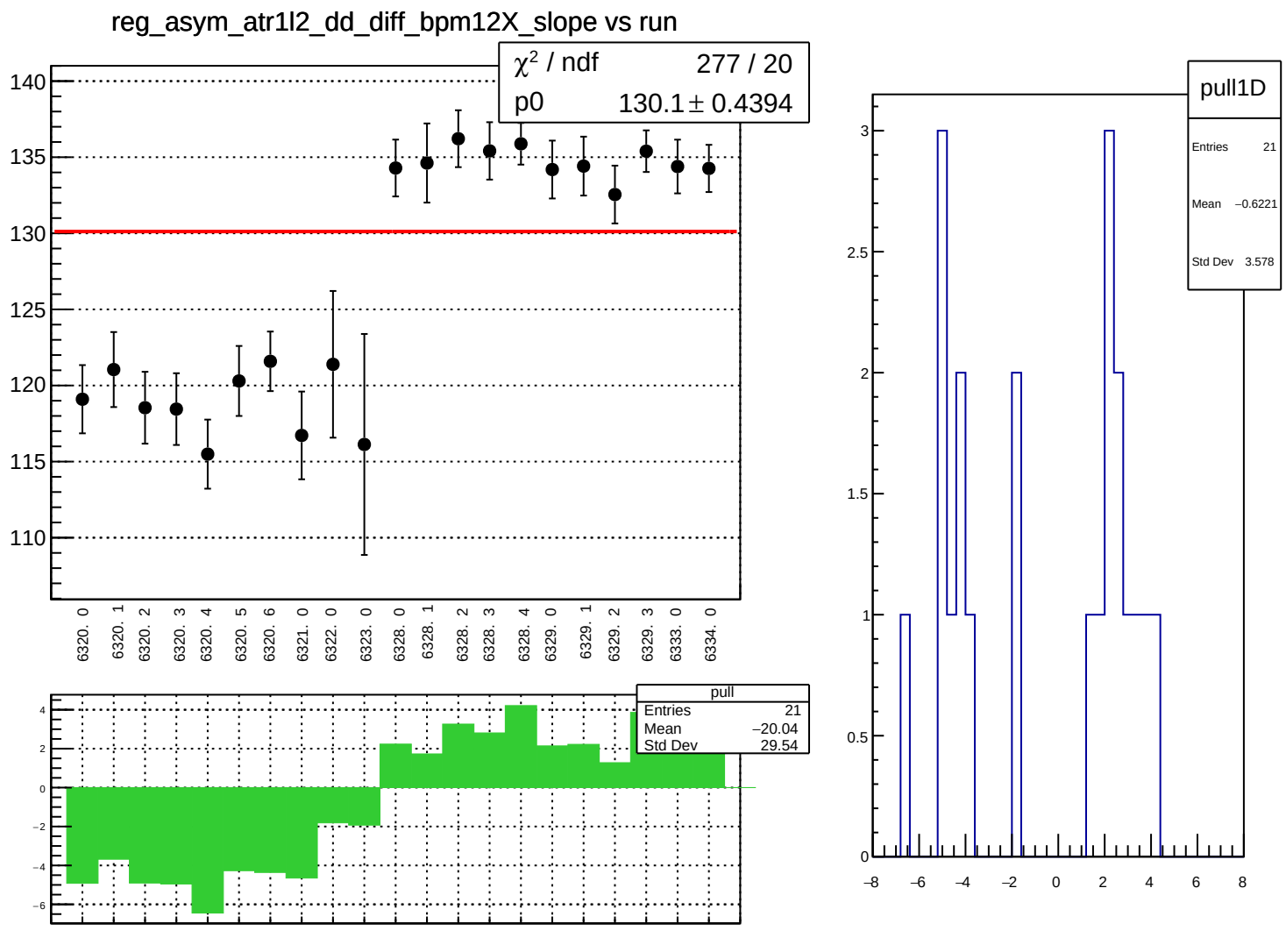

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.95 / 20
p0 9.555 ± 6.357
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

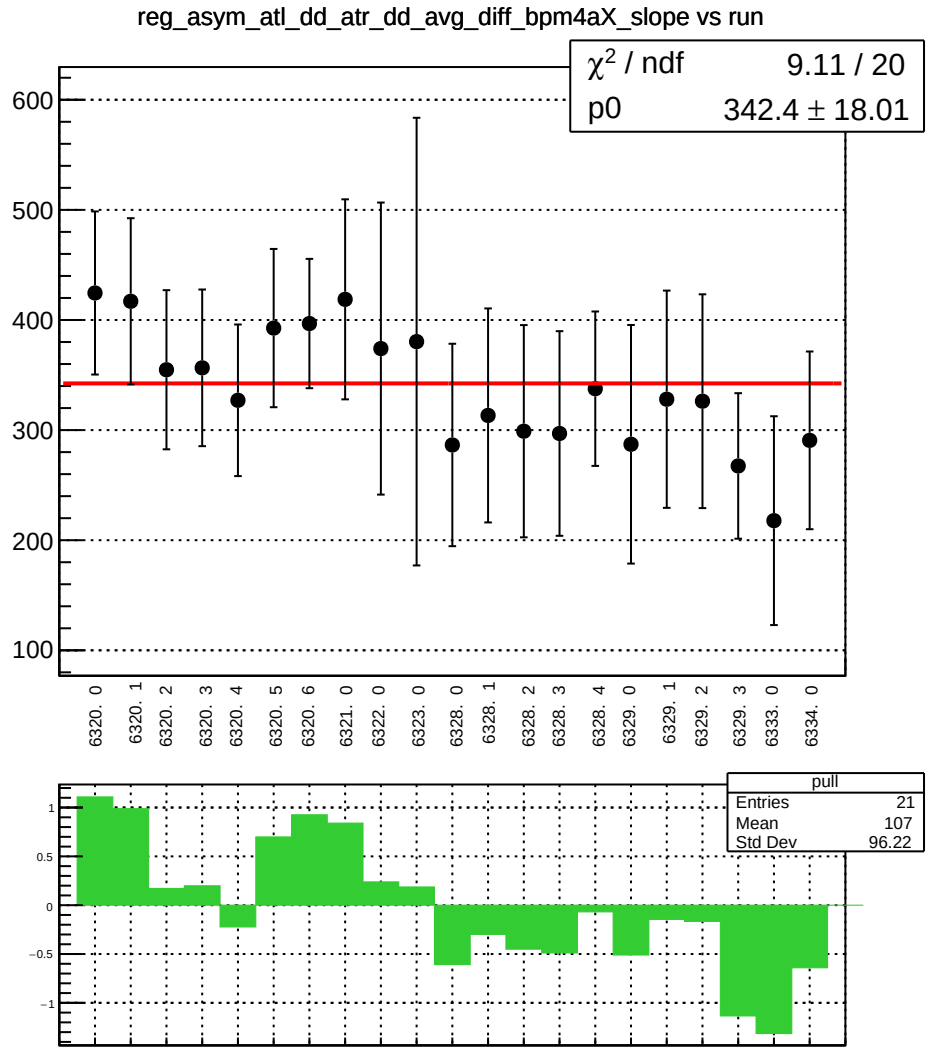

pull
Entries 21
Mean 37.35
Std Dev 26.51
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

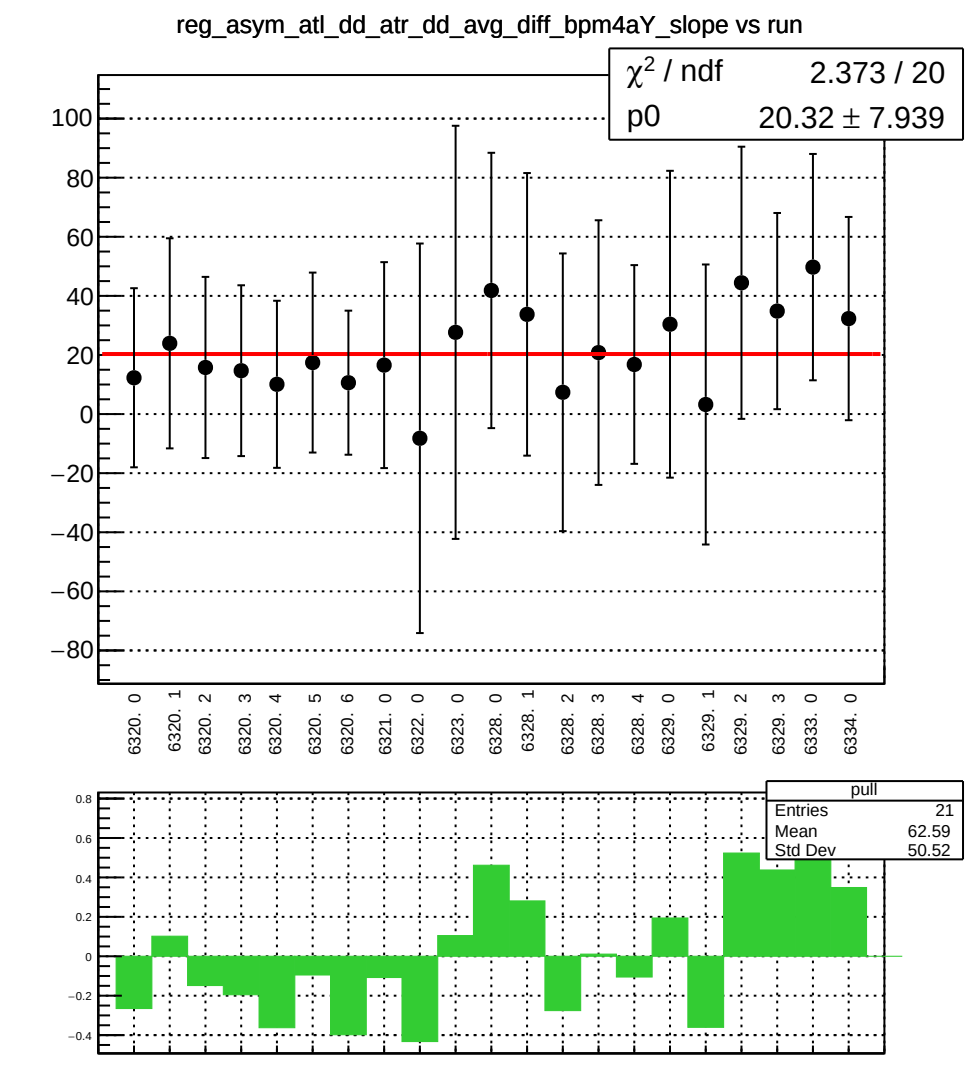

pull1D
Entries 21
Mean 0.07488
Std Dev 0.527
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

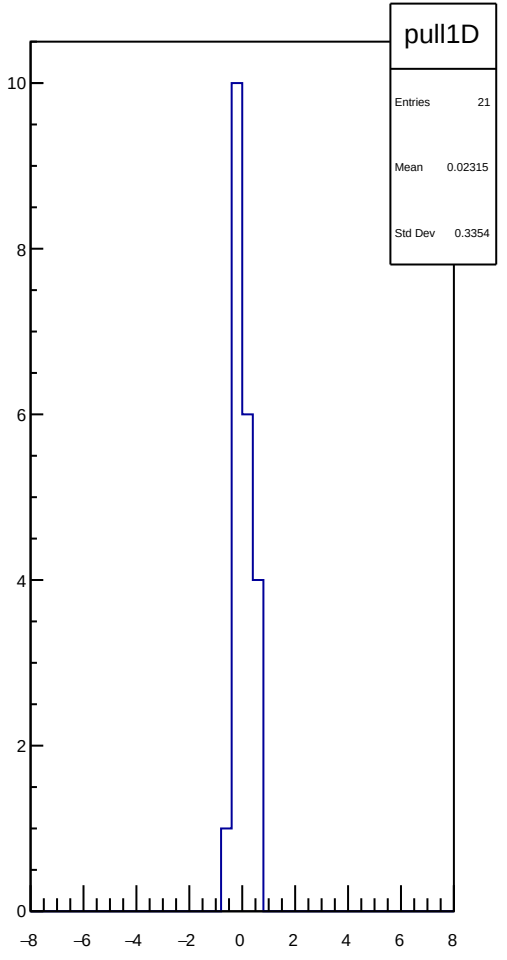

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.88 / 20
p0 −304.1± 15.67
0
−100
−200
−300
−400
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 65.58
Std Dev 54.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean 0.07162
Std Dev 0.8388
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

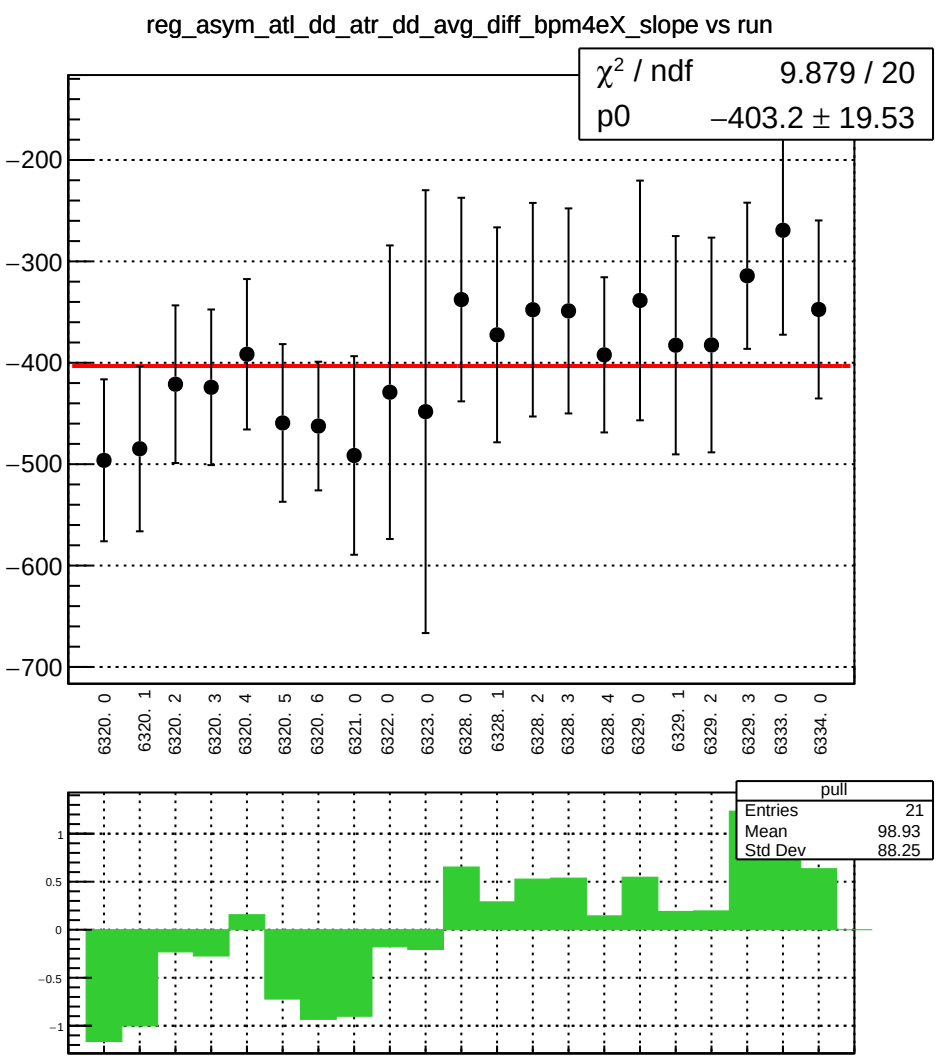

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.03 / 20
p0 −87.21± 7.503
0
−50
−100
−150
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 57.28
Std Dev 46.69
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.07356
Std Dev 0.7532
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

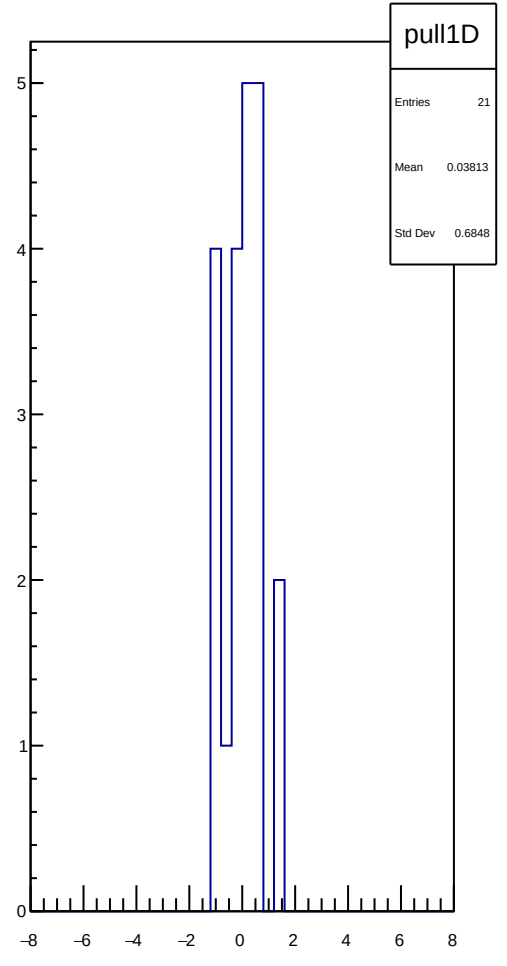

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 277 / 20
p0 130.1 ± 0.4394
140
135
130
125
120
115
110
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.04
Std Dev 29.54
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.6221
Std Dev 3.578
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

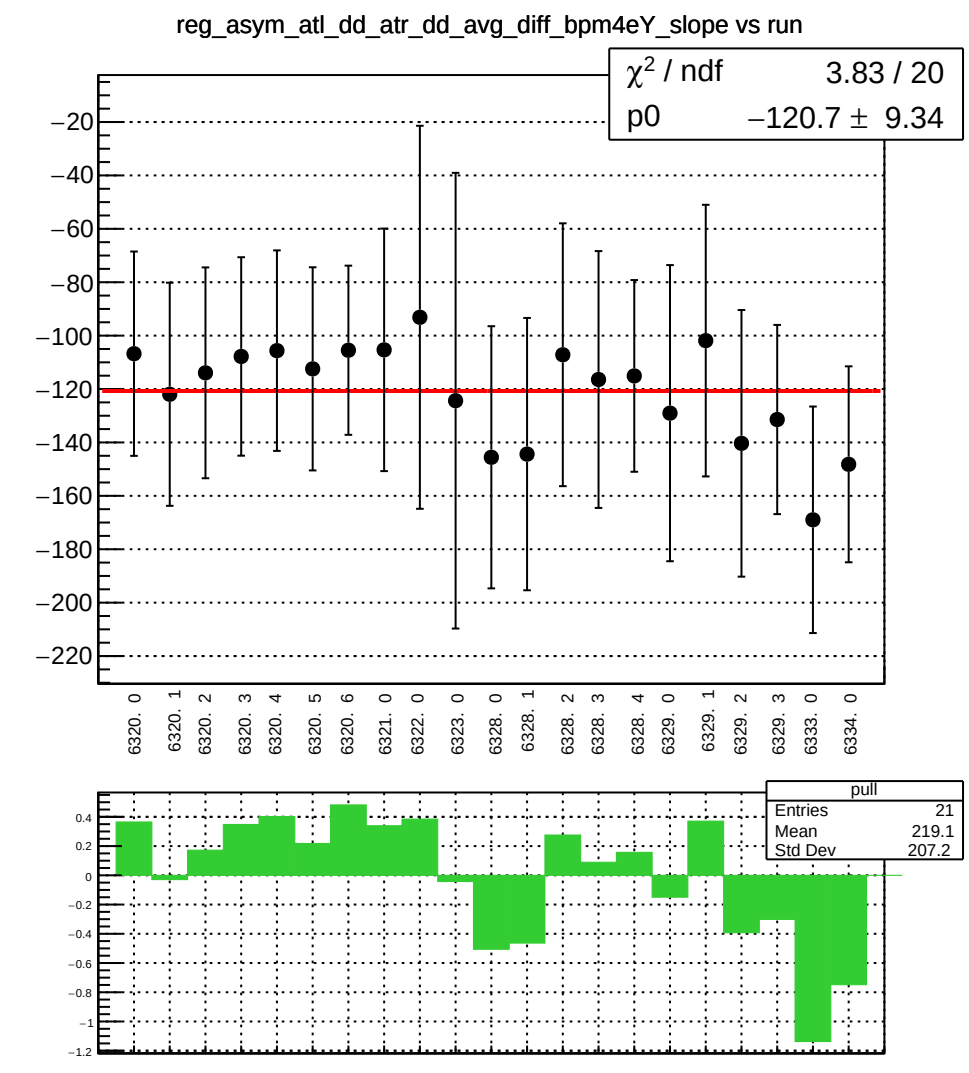

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.11 / 20
p0 342.4 ± 18.01
600
500
400
300
200
100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 107
Std Dev 96.22
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean −0.0329
Std Dev 0.6578
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

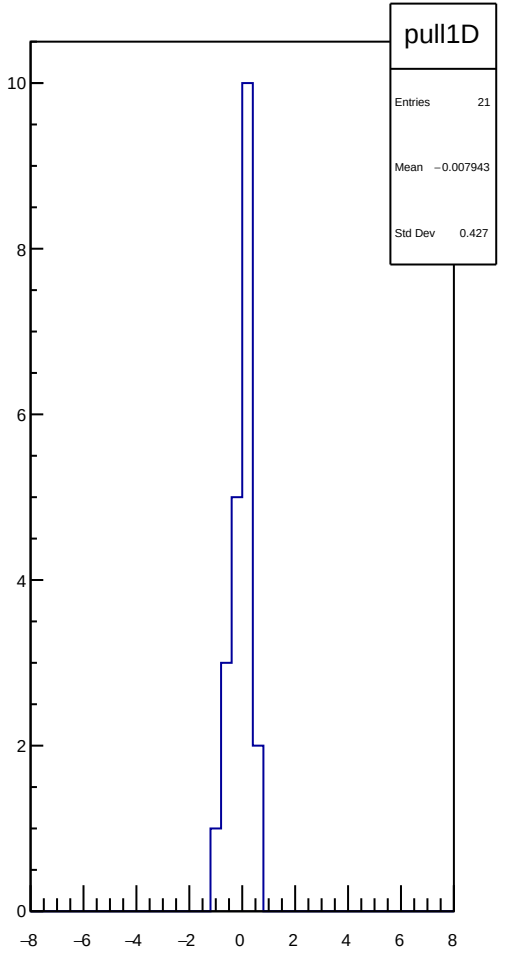

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.373 / 20
p0 20.32 ± 7.939
100
80
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 62.59
Std Dev 50.52
0.8
0.6
0.4
0.2
0
−0.2
−0.4

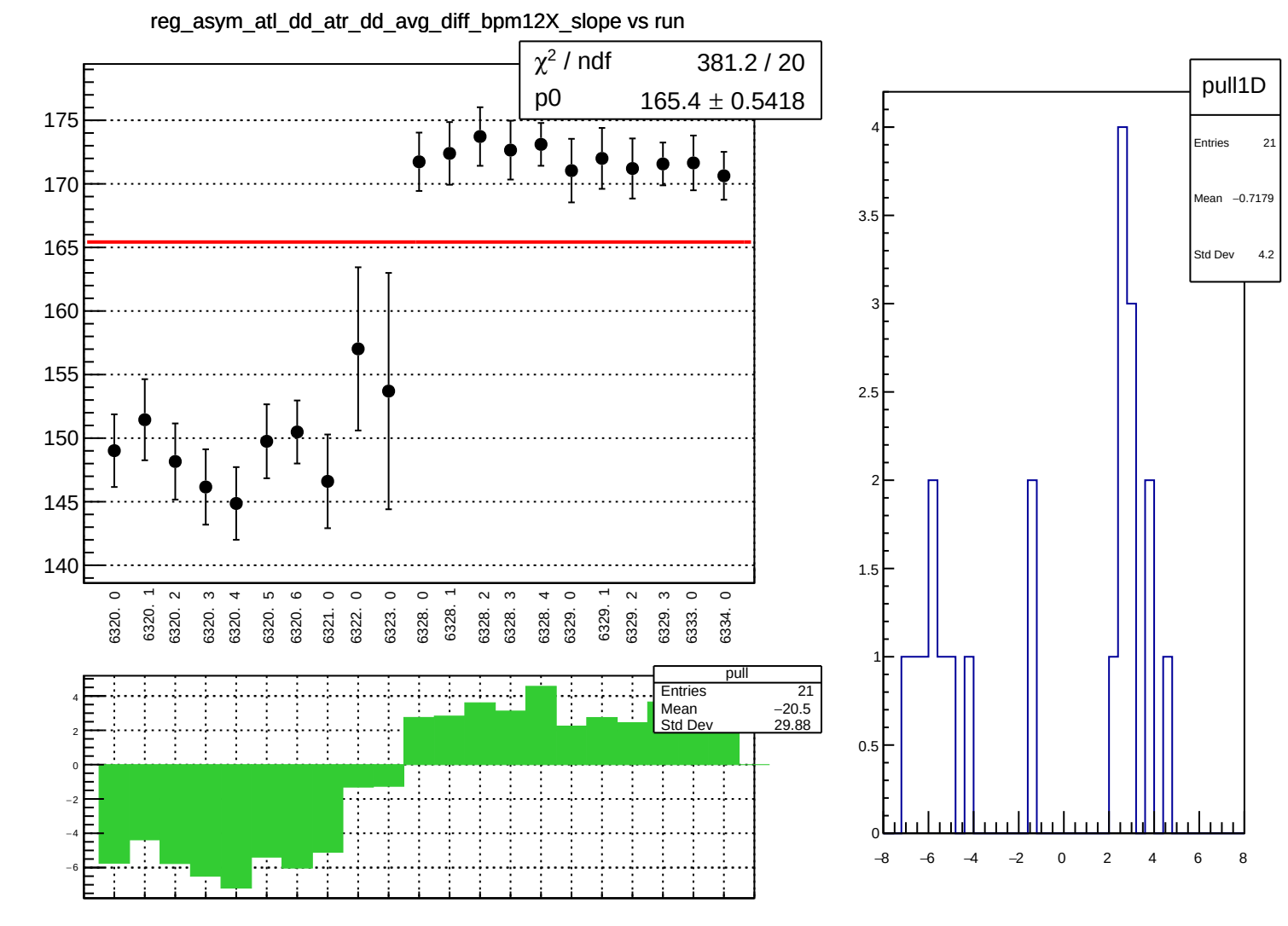

pull1D
Entries 21
Mean 0.02315
Std Dev 0.3354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

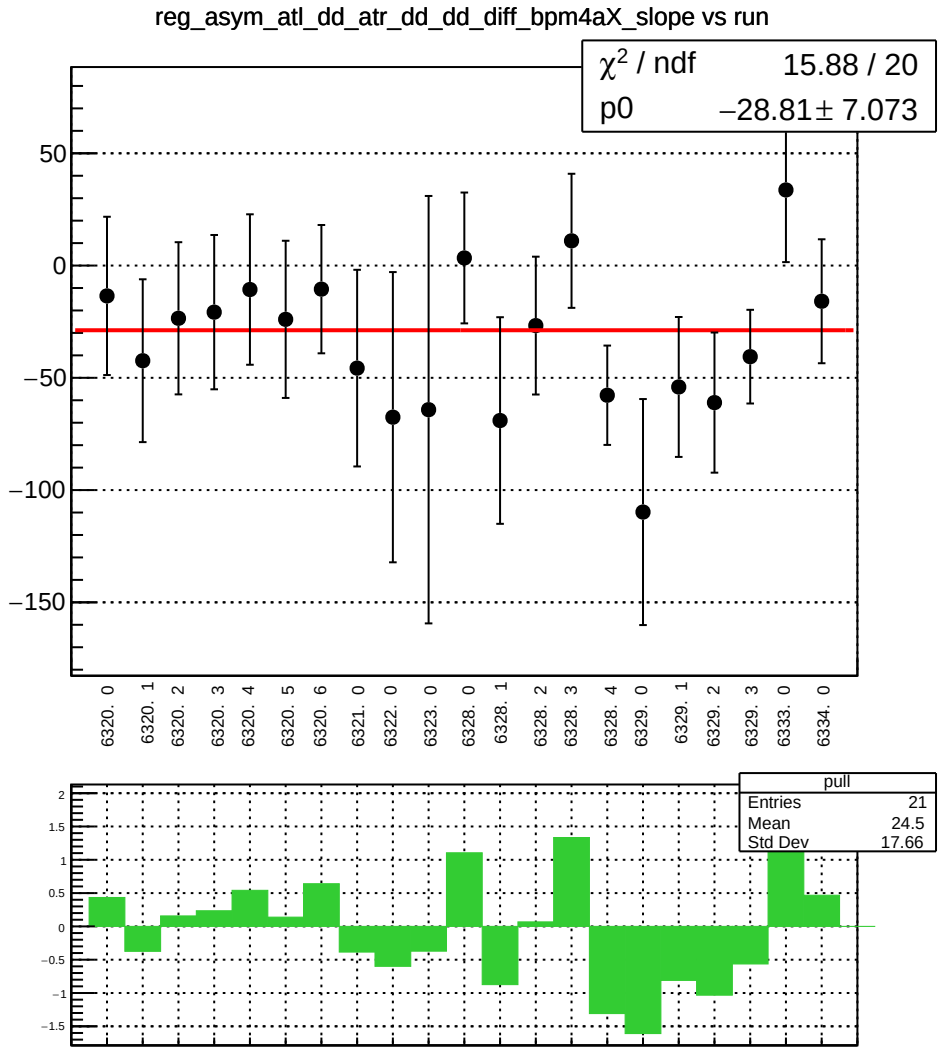

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.879 / 20
p0 −403.2 ± 19.53
−200
−300
−400
−500
−600
−700
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 98.93
Std Dev 88.25
1
0.5
0
−0.5
−1

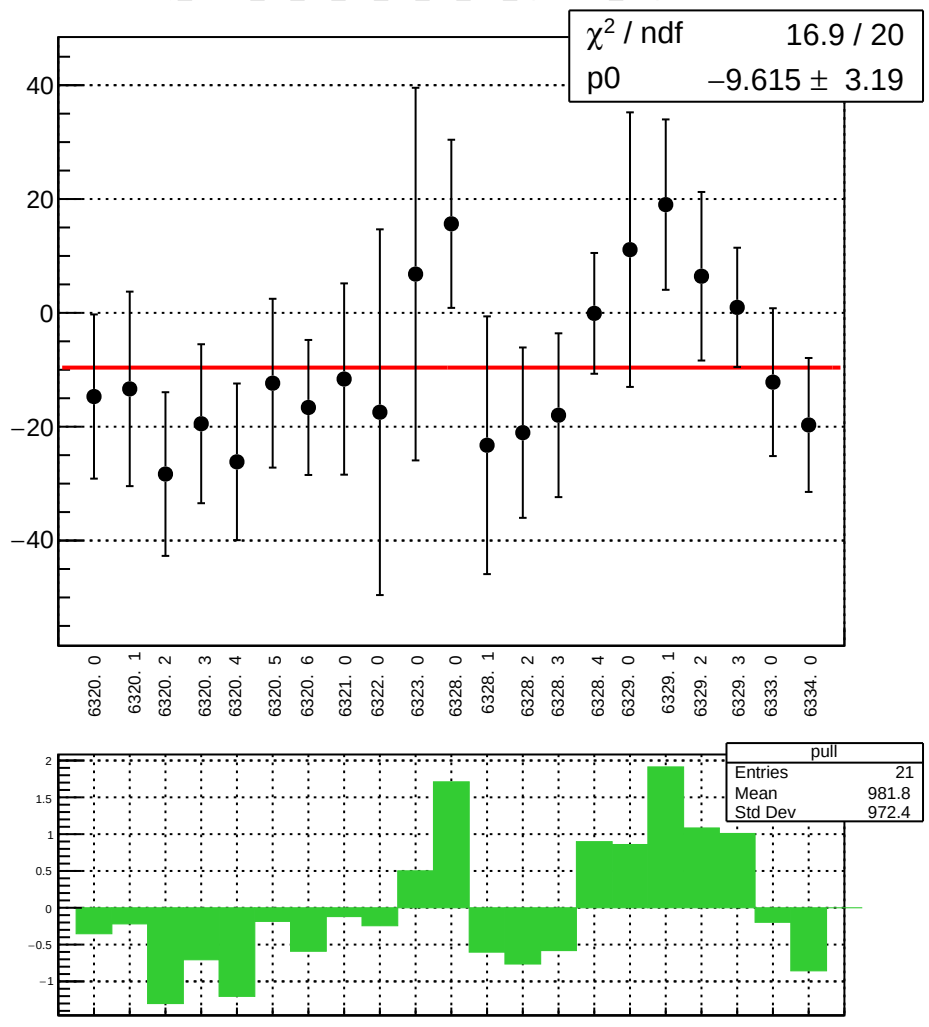

pull1D
Entries 21
Mean 0.03813
Std Dev 0.6848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

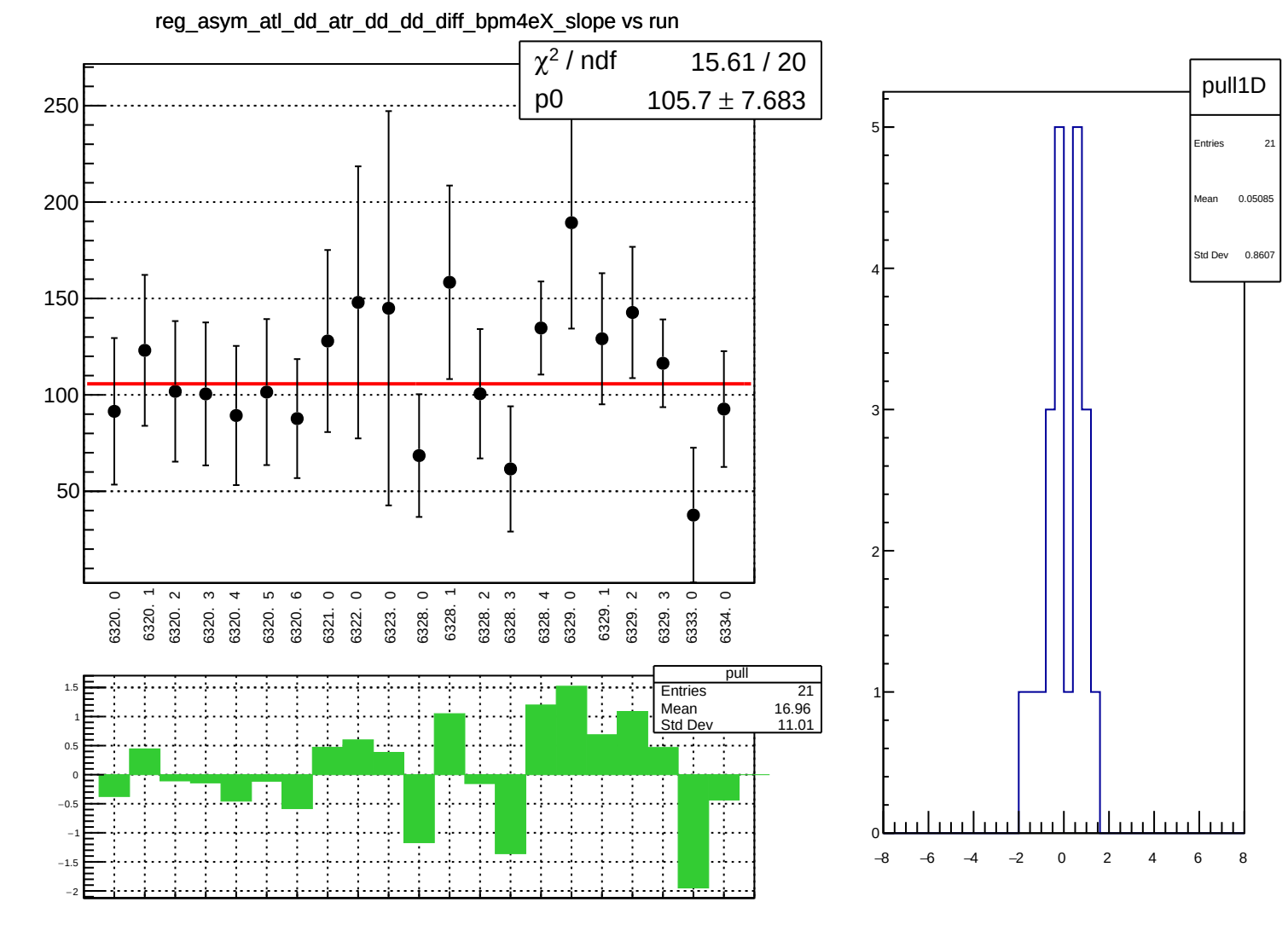

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.83 / 20
p0 −120.7 ± 9.34
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 219.1
Std Dev 207.2
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

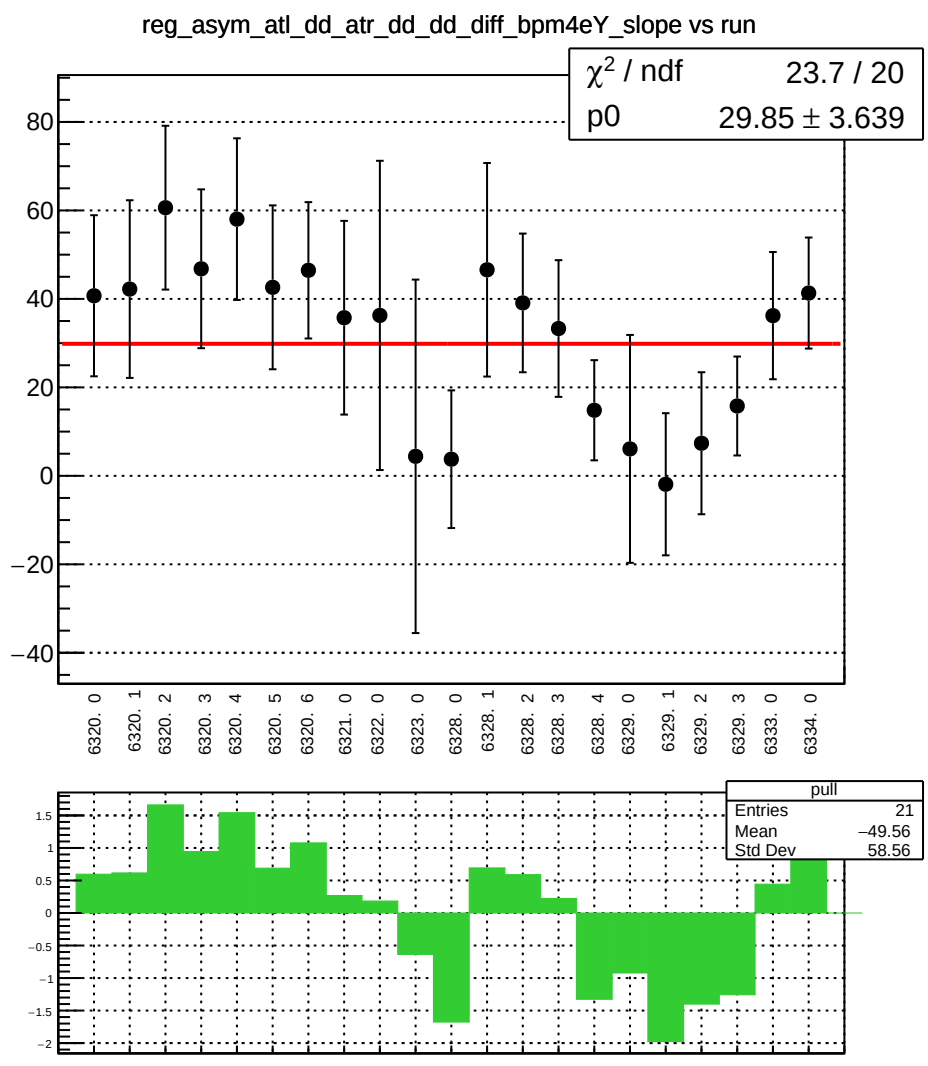

pull1D
Entries 21
Mean −0.007943
Std Dev 0.427
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

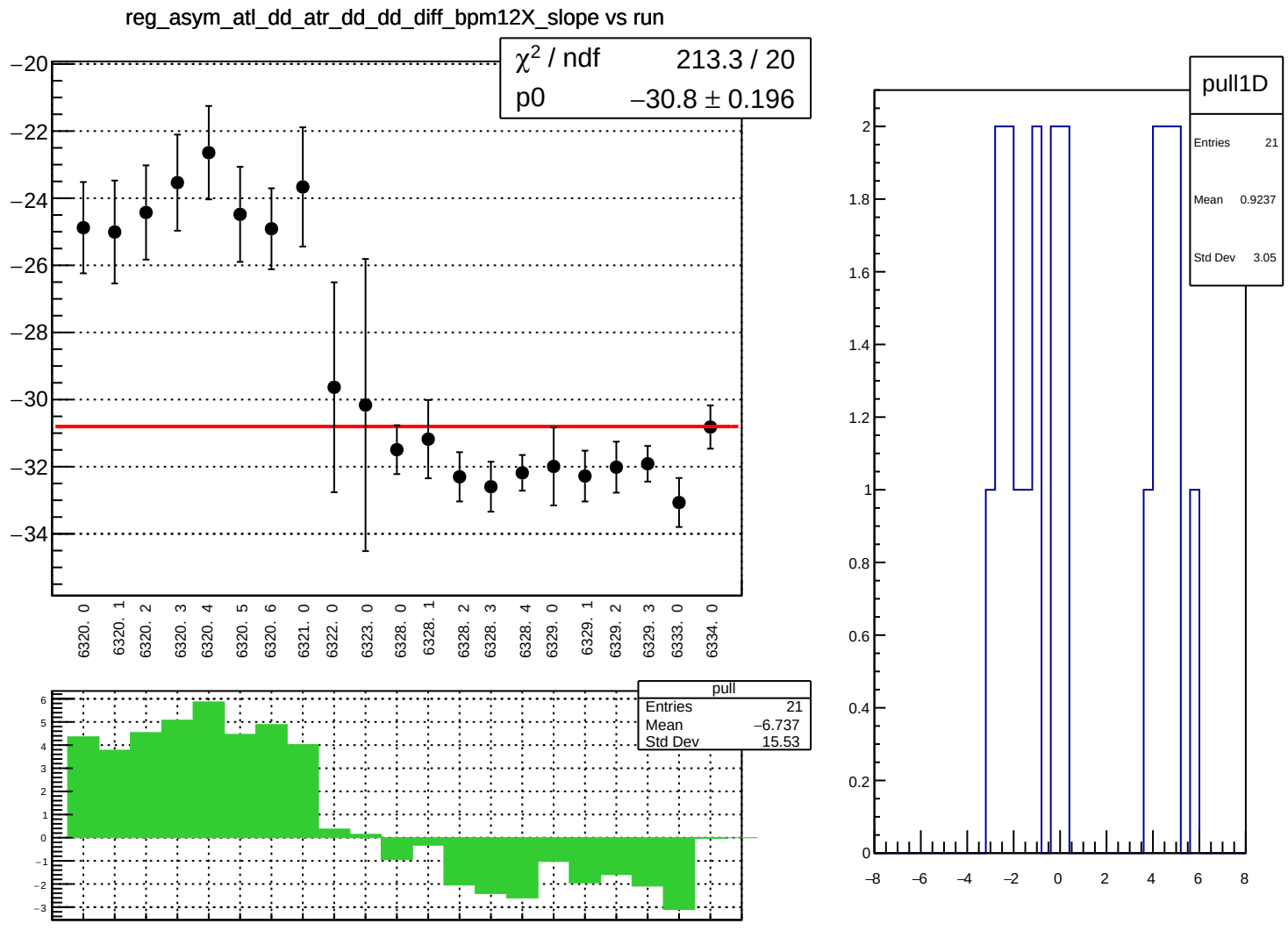

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 381.2 / 20
p0 165.4 ± 0.5418
175
170
165
160
155
150
145
140
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.5
Std Dev 29.88
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.7179
Std Dev 4.2
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

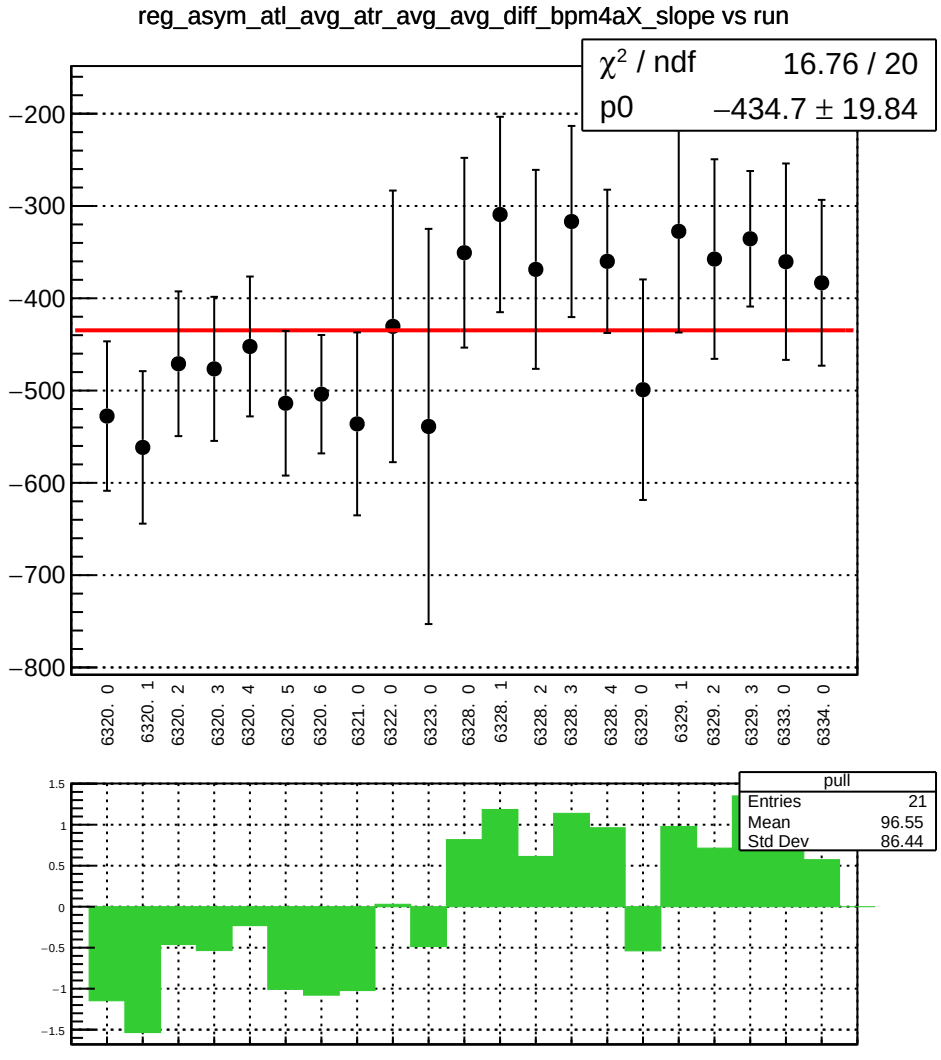

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.88 / 20
p0 −28.81± 7.073
50
0
−50
−100
−150
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 24.5
Std Dev 17.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.04115
Std Dev 0.8687
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

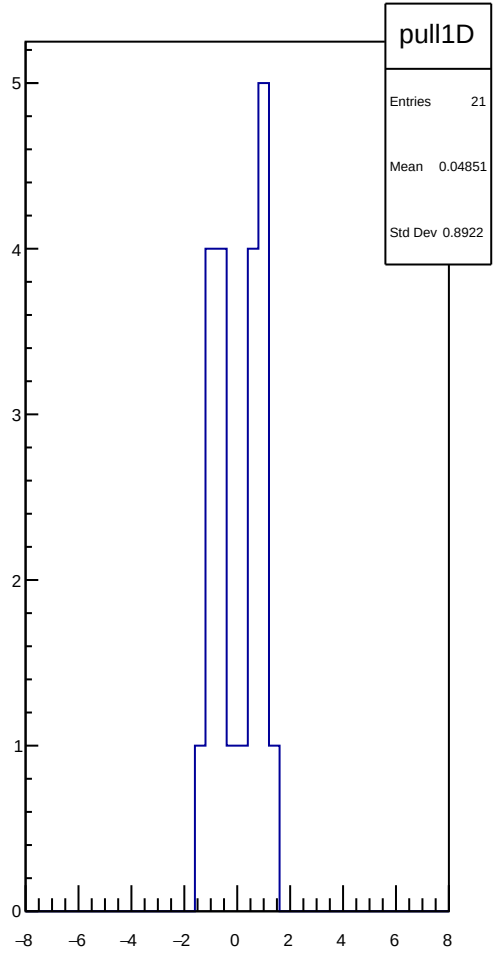

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.9 / 20
p0 −9.615 ± 3.19
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 981.8
Std Dev 972.4
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.002575
Std Dev 0.8971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

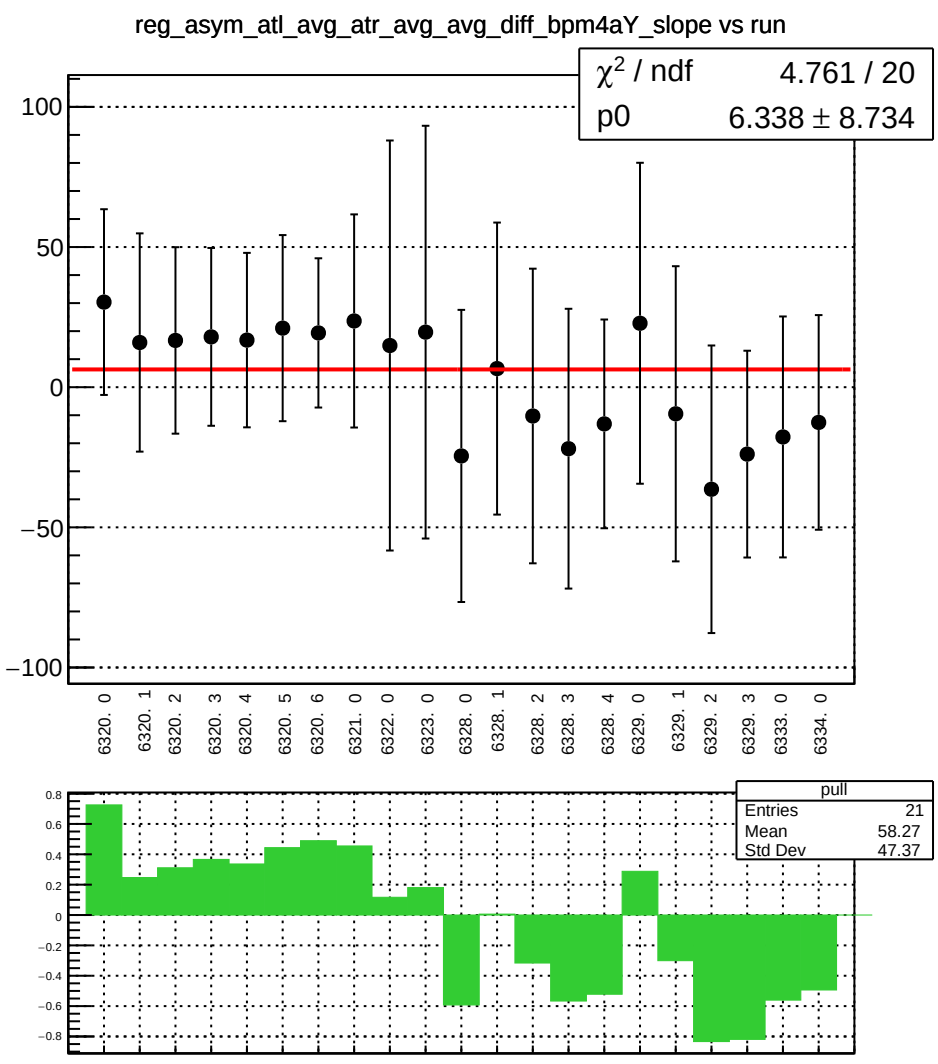

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.61 / 20
p0 105.7 ± 7.683
250
200
150
100
50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 16.96
Std Dev 11.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05085
Std Dev 0.8607
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

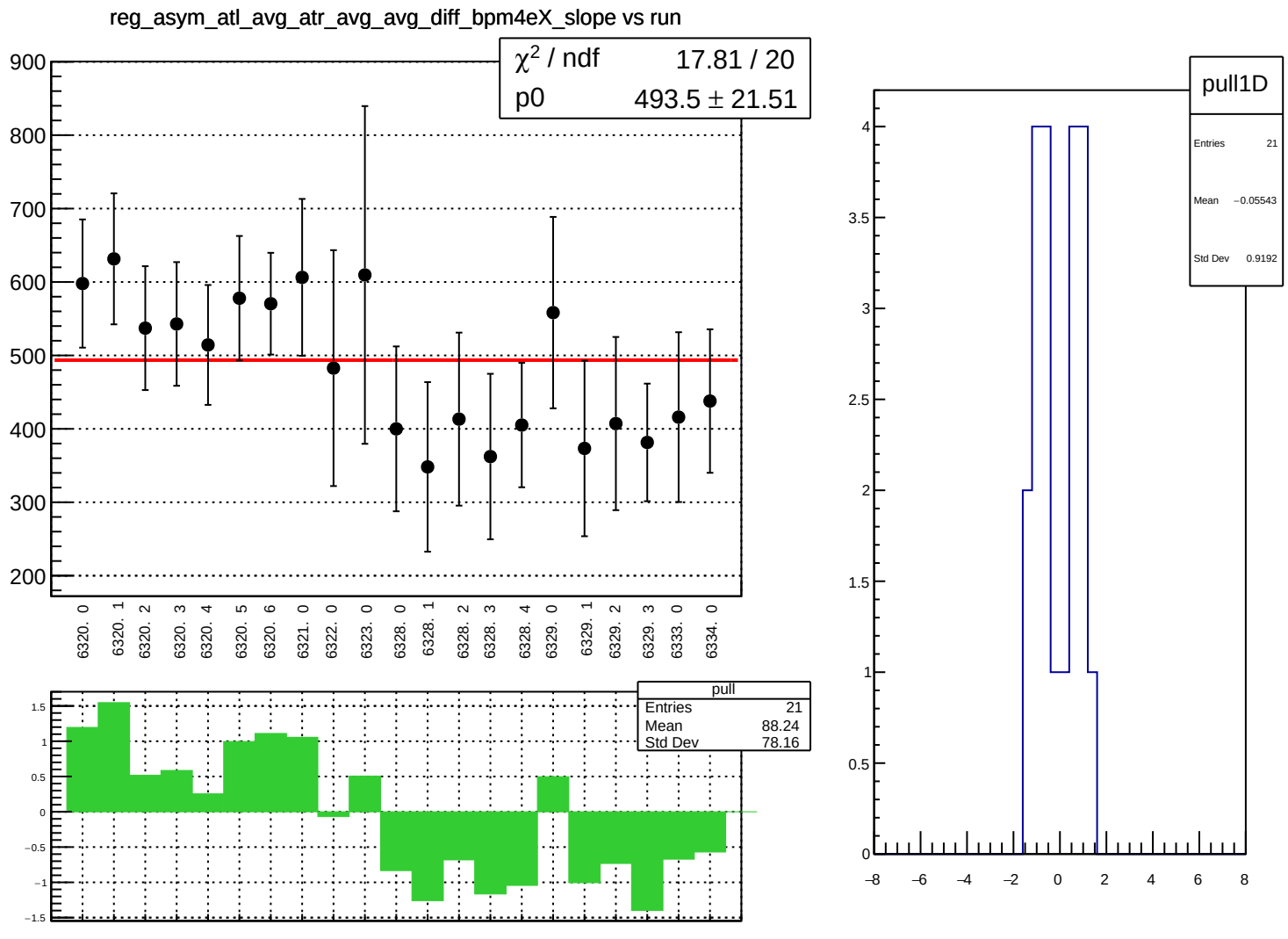

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.7 / 20
p0 29.85 ± 3.639
80
60
40
20
0
−20
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −49.56
Std Dev 58.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05941
Std Dev 1.061
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

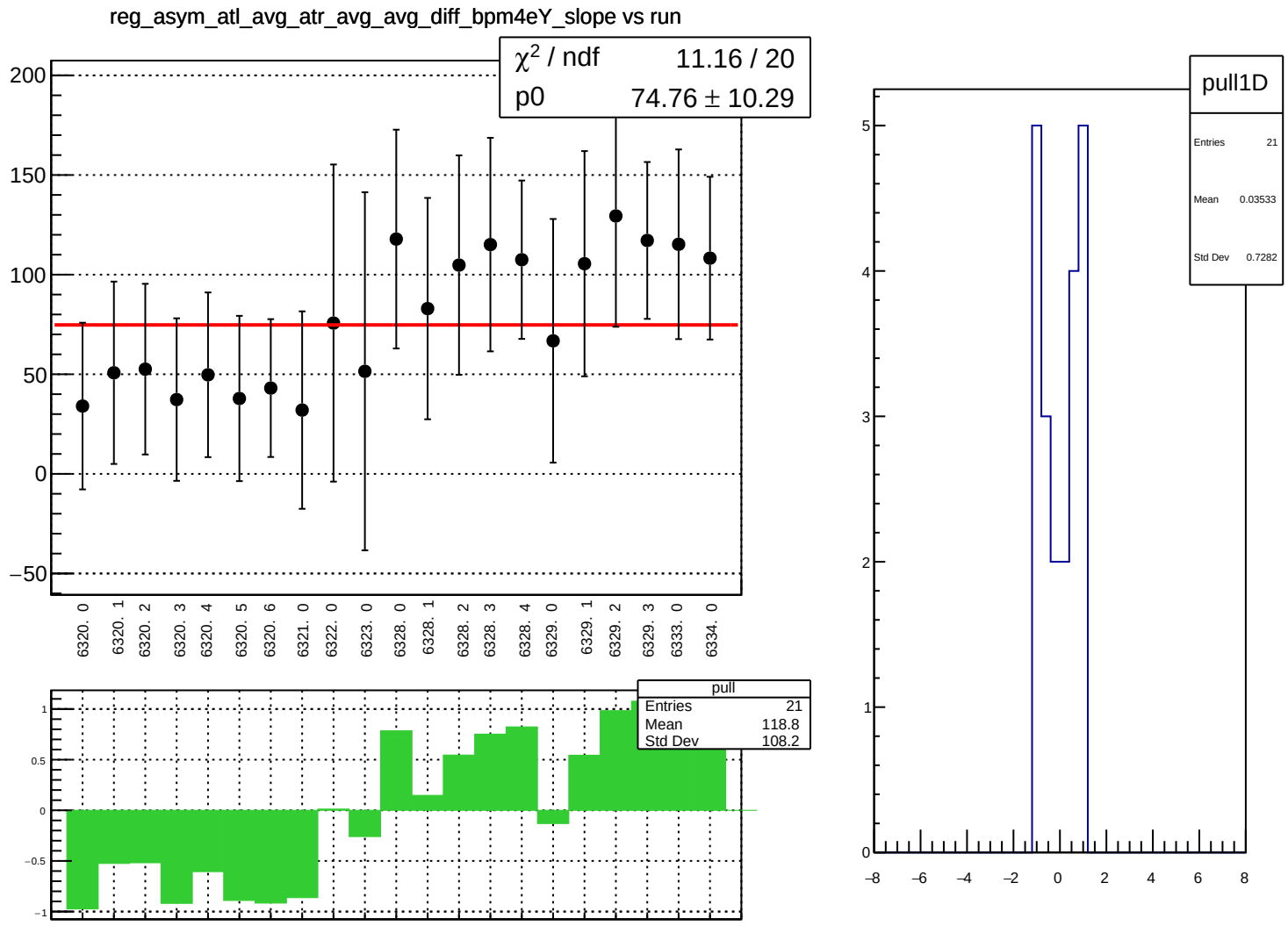

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 213.3 / 20
p0 −30.8 ± 0.196
−20
−22
−24
−26
−28
−30
−32
−34
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −6.737
Std Dev 15.53
pull1D
Entries 21
Mean 0.9237
Std Dev 3.05

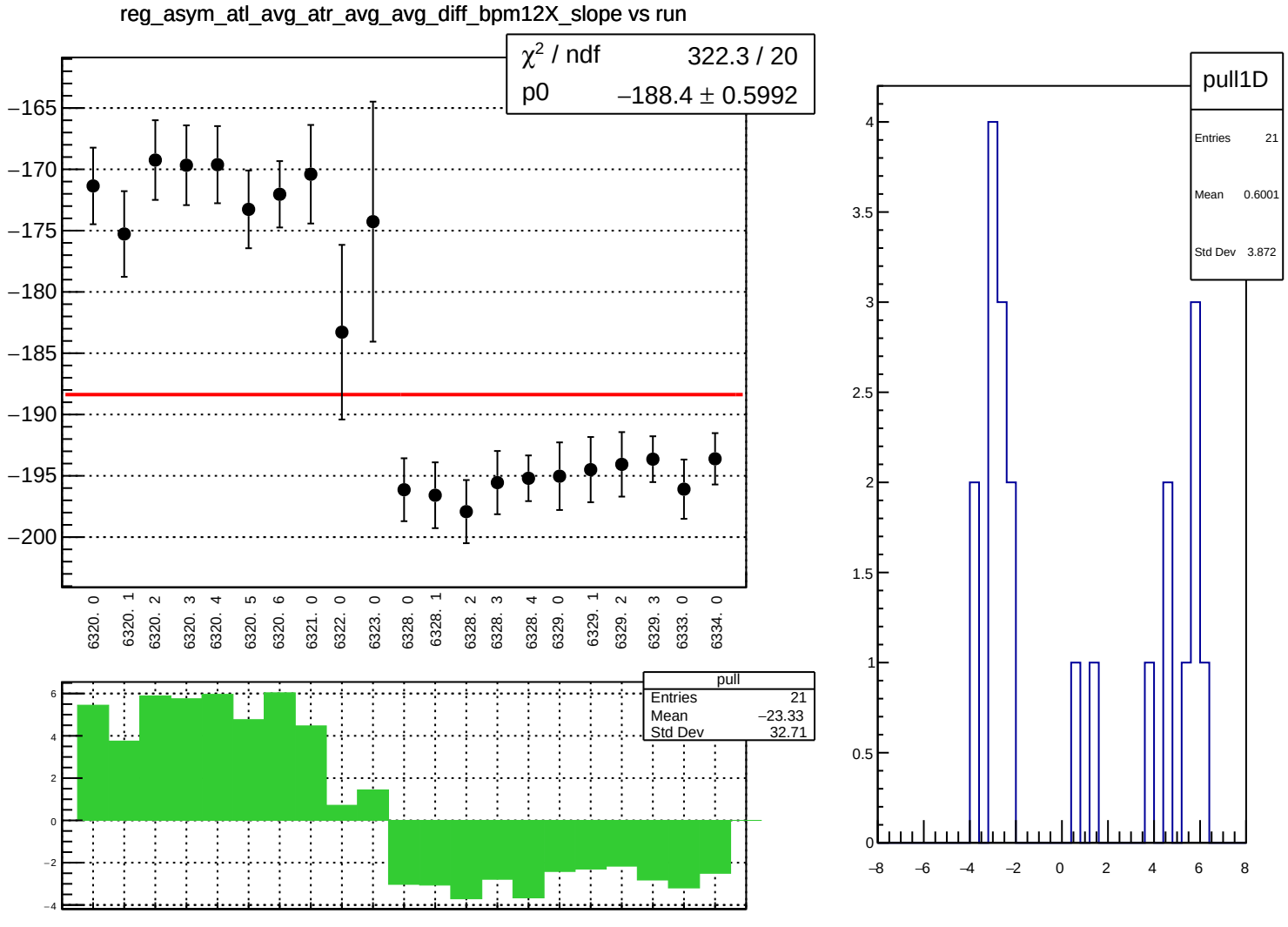

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.76 / 20
p0 −434.7 ± 19.84
−200
−300
−400
−500
−600
−700
−800
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 96.55
Std Dev 86.44
1.5
1
0.5
0
−0.5
−1
−1.5

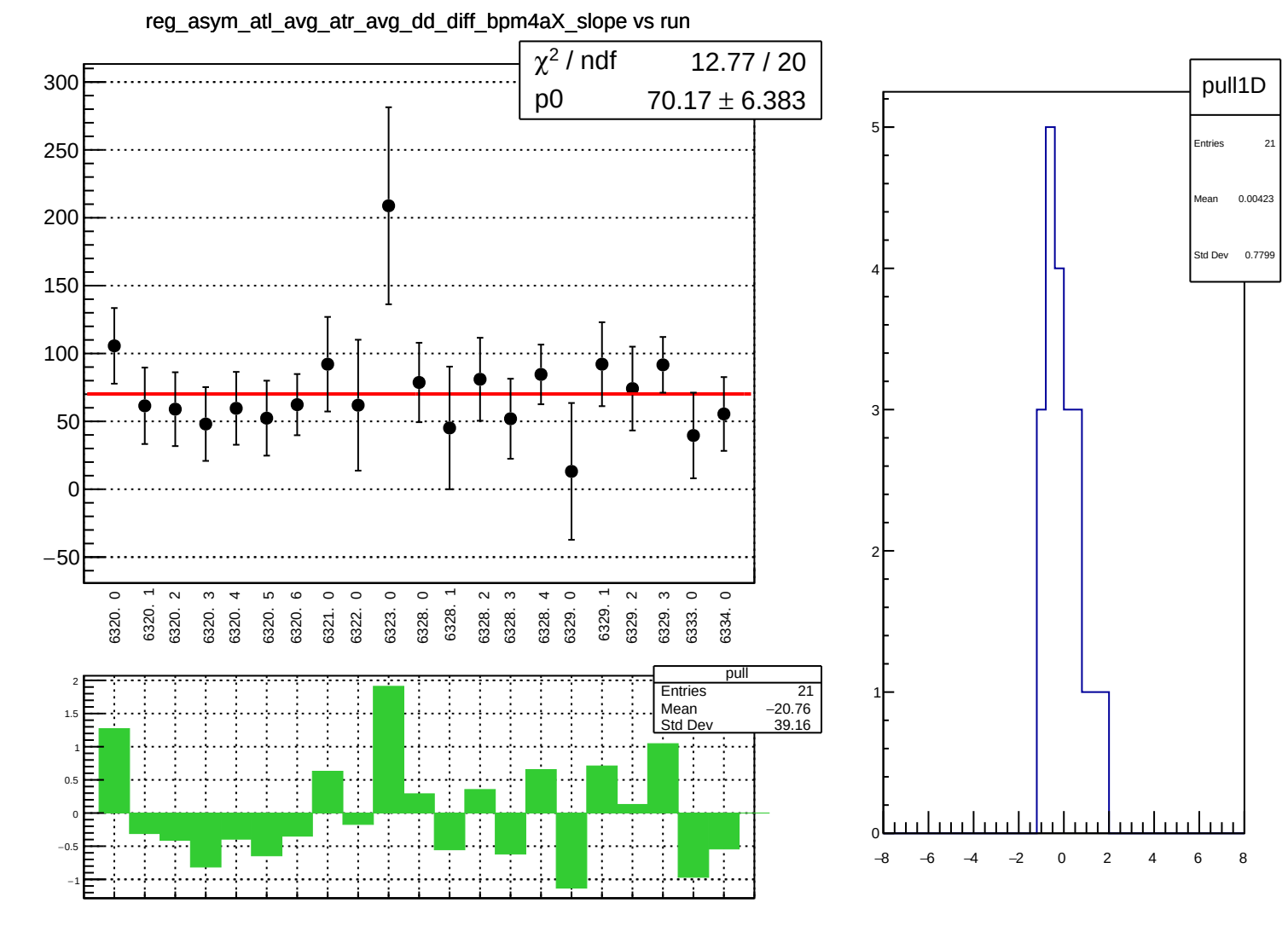

pull1D
Entries 21
Mean 0.04851
Std Dev 0.8922
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

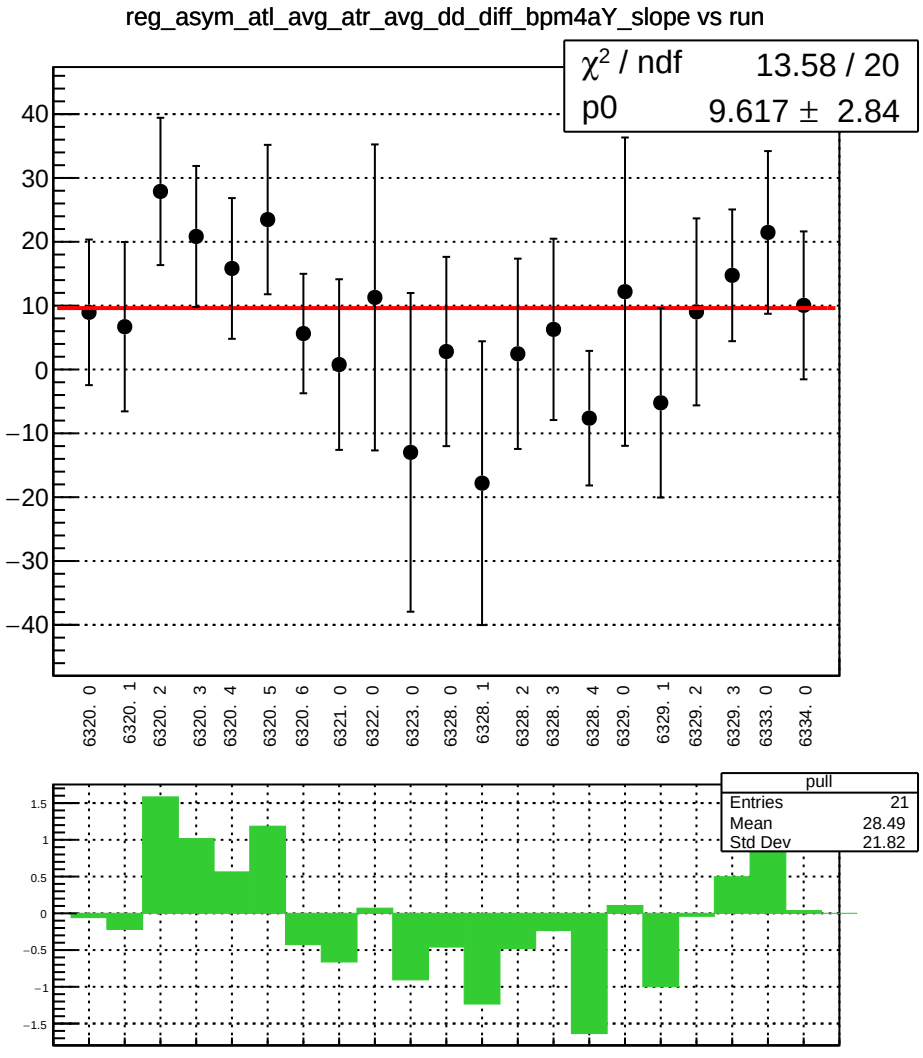

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.761 / 20
p0 6.338 ± 8.734
100
50
0
−50
−100
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 58.27
Std Dev 47.37
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 21
Mean −0.04948
Std Dev 0.4735
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

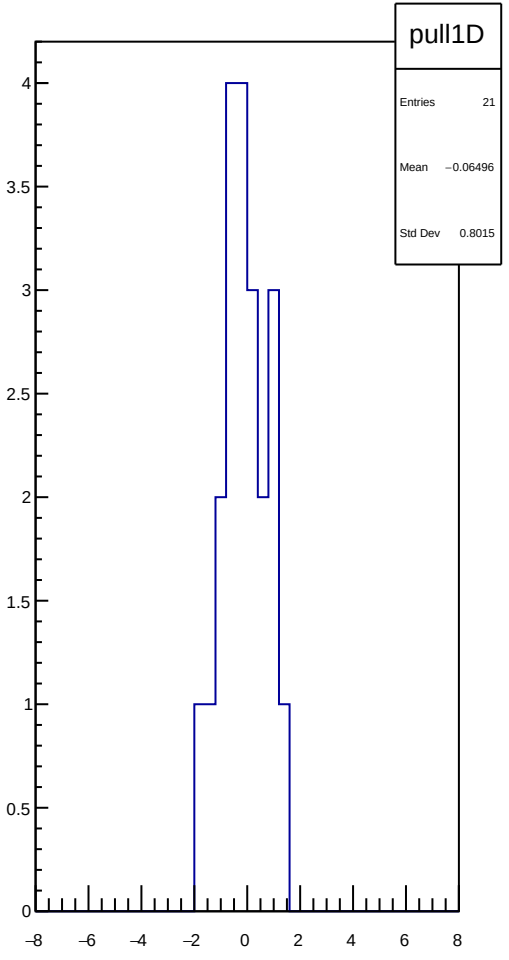

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.81 / 20
p0 493.5 ± 21.51
900
800
700
600
500
400
300
200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 88.24
Std Dev 78.16
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 21
Mean −0.05543
Std Dev 0.9192
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

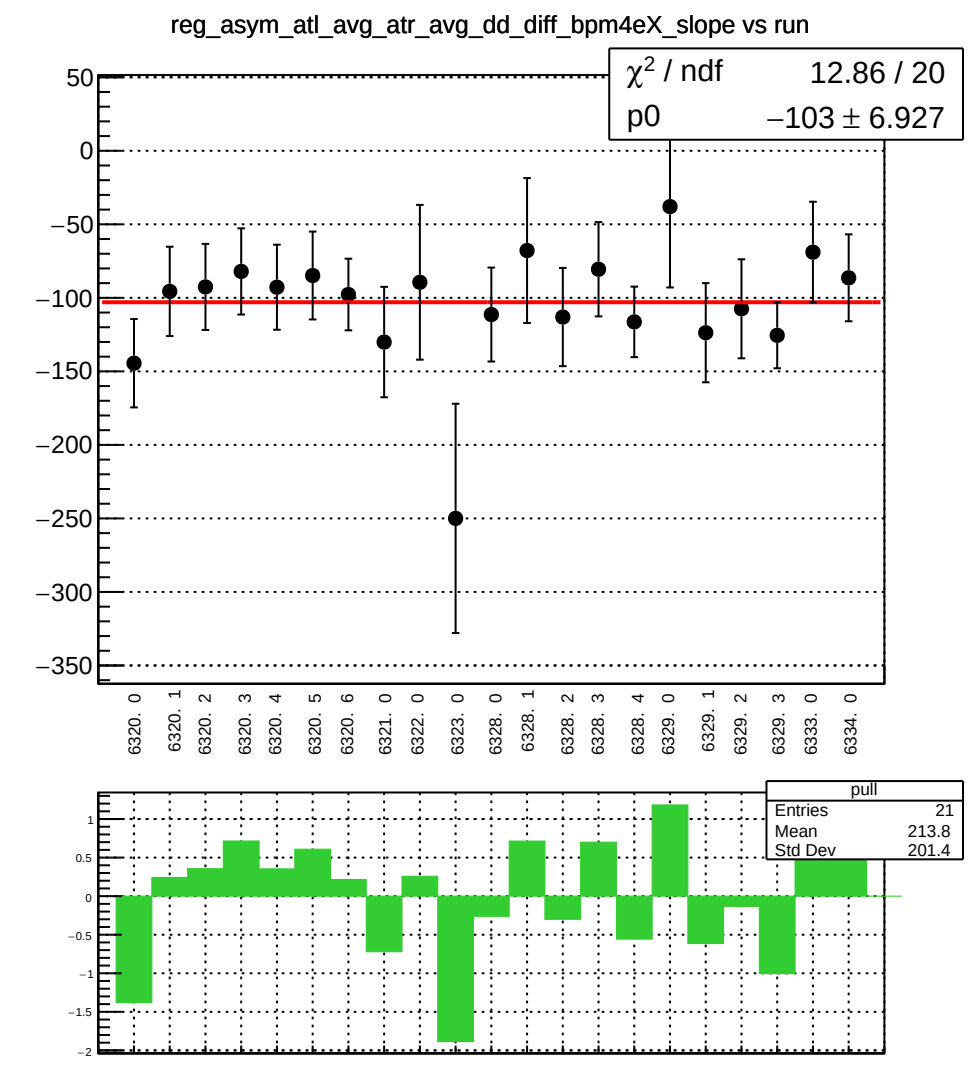

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.16 / 20
p0 74.76 ± 10.29
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 118.8
Std Dev 108.2
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.03533
Std Dev 0.7282
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

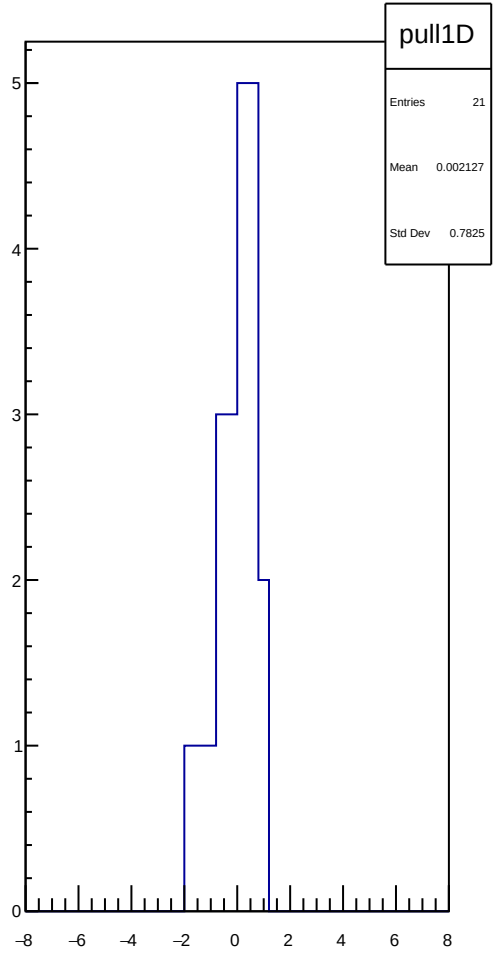

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 322.3 / 20
p0 −188.4 ± 0.5992
−165
−170
−175
−180
−185
−190
−195
−200
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −23.33
Std Dev 32.71
pull1D
Entries 21
Mean 0.6001
Std Dev 3.872

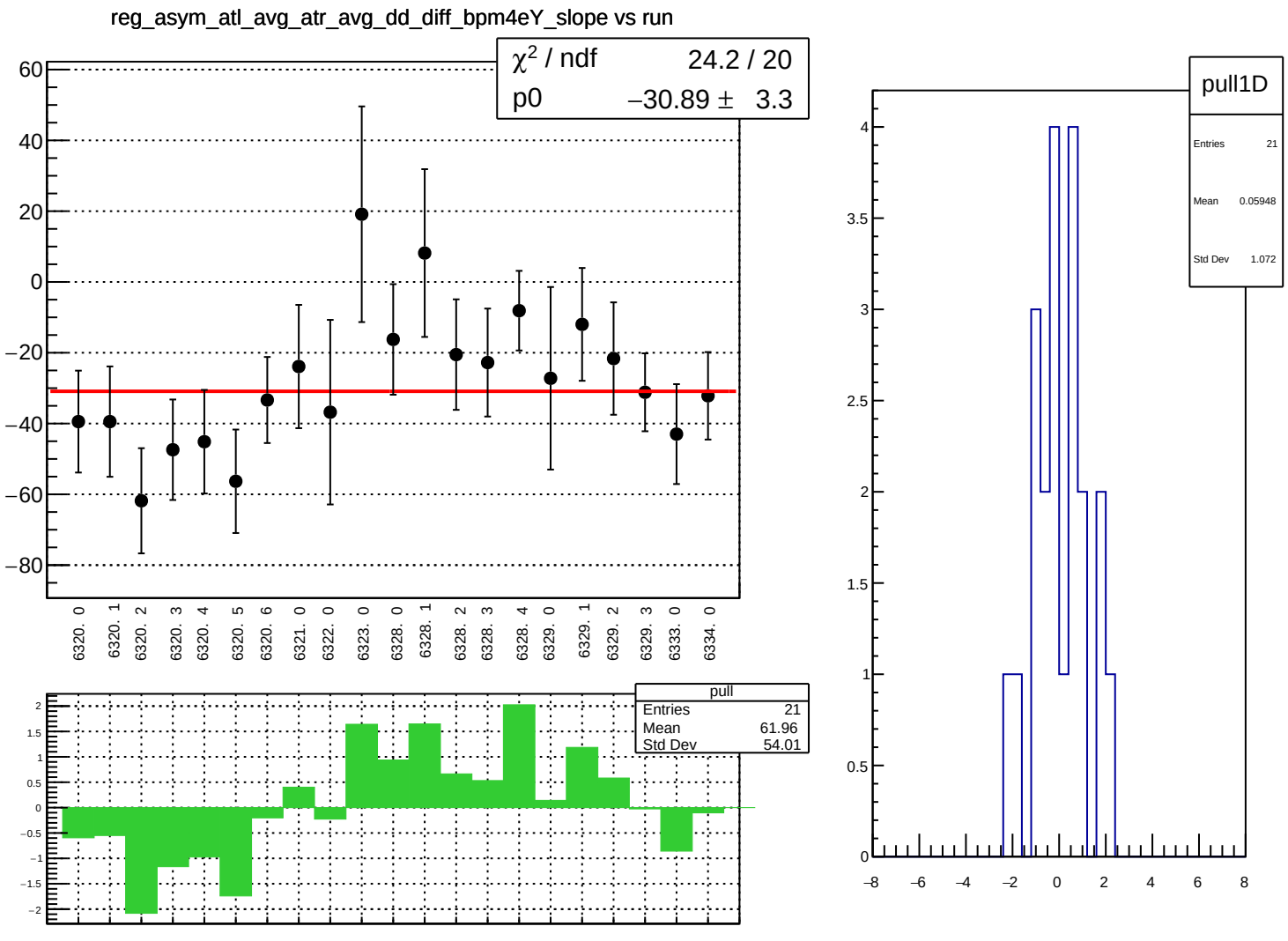

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.77 / 20
p0 70.17 ± 6.383
300
250
200
150
100
50
0
−50
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −20.76
Std Dev 39.16
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 21
Mean 0.00423
Std Dev 0.7799
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

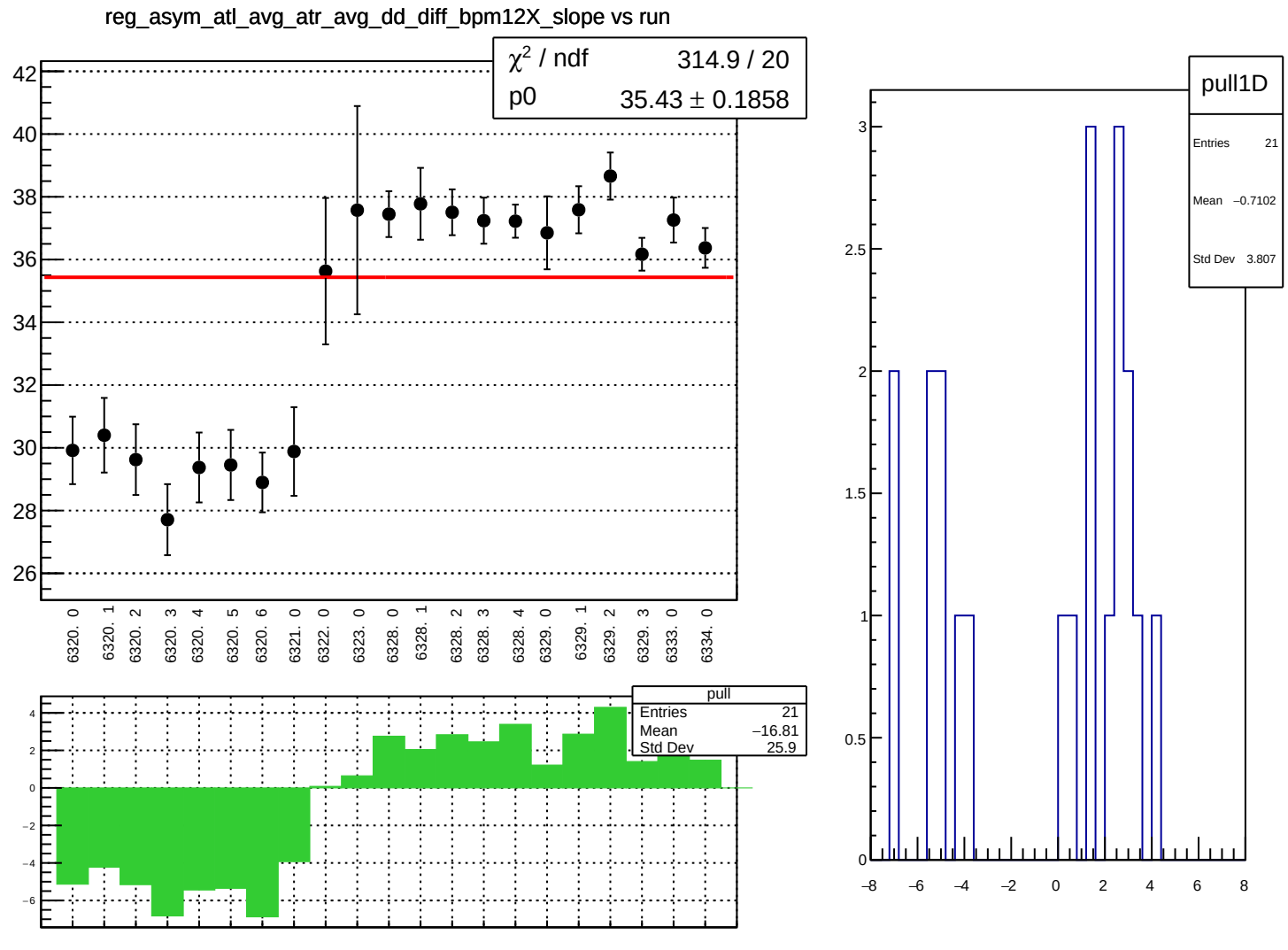

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 20
p0 9.617 ± 2.84
40
30
20
10
0
−10
−20
−30
−40
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 28.49
Std Dev 21.82
1.5
1
0.5
0
−0.5
−1
−1.5

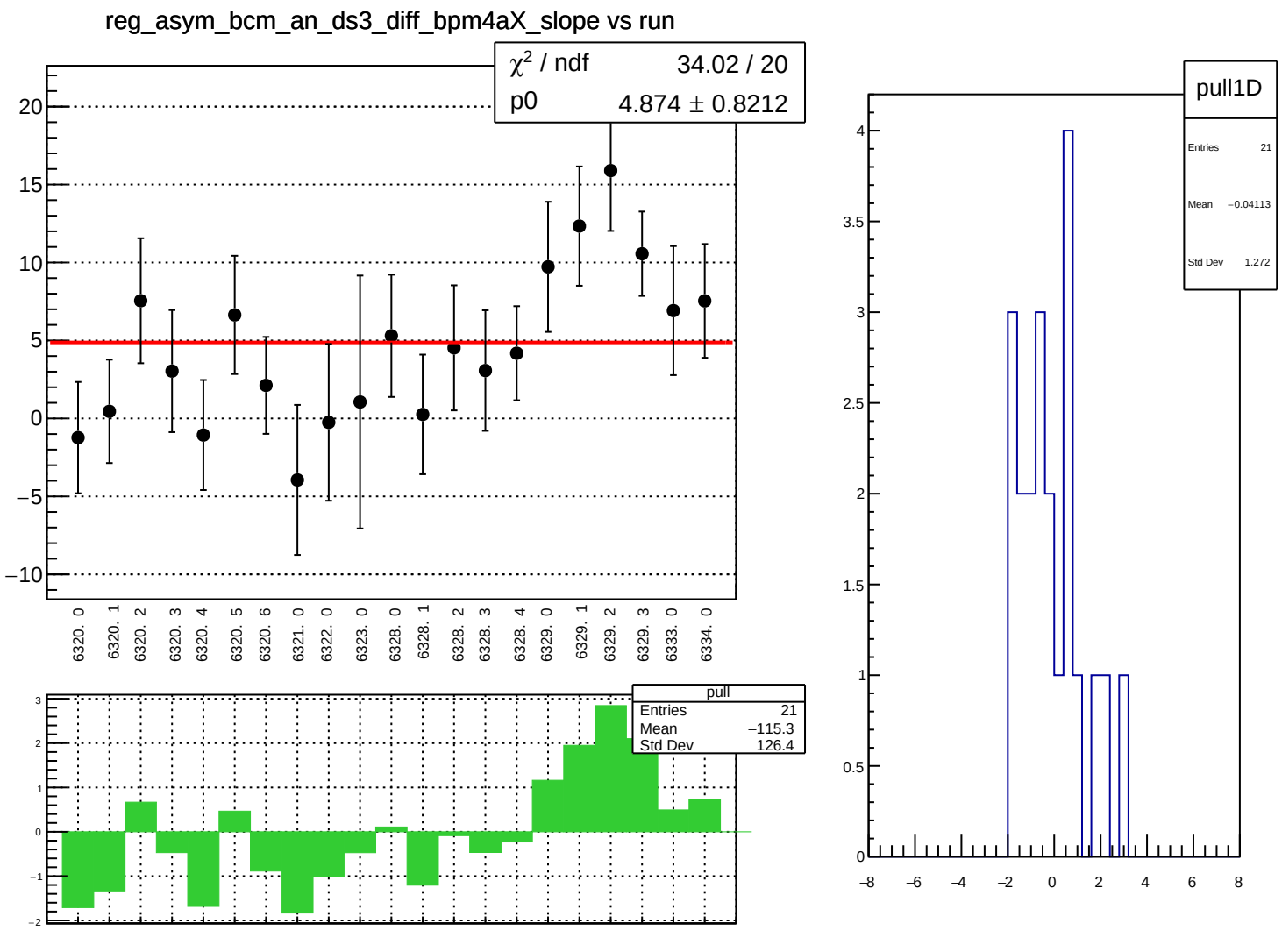

pull1D
Entries 21
Mean −0.06496
Std Dev 0.8015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

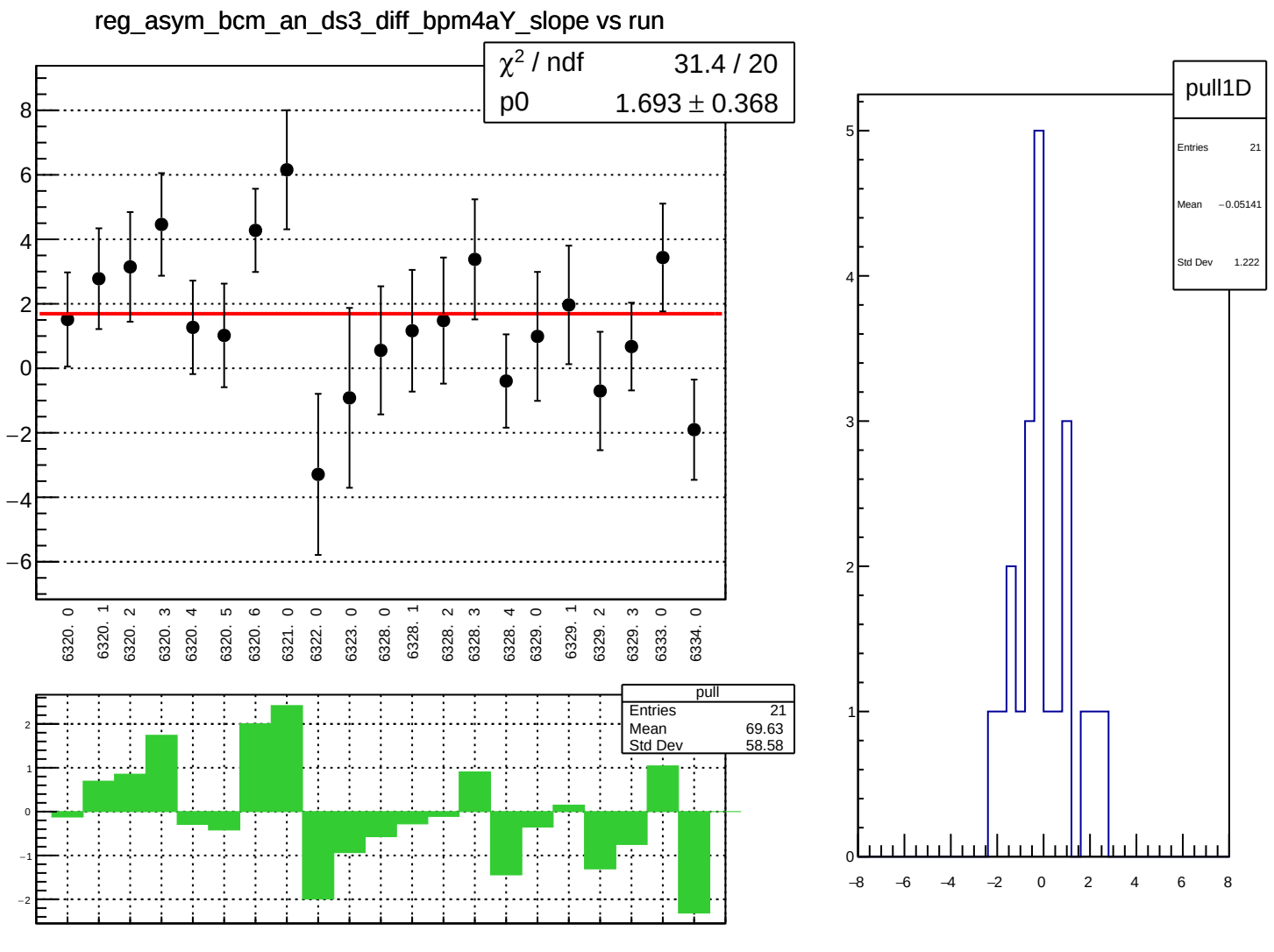

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.86 / 20
p0 −103 ± 6.927
50
0
−50
−100
−150
−200
−250
−300
−350
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 213.8
Std Dev 201.4
1
0.5
0
−0.5
−1
−1.5
−2

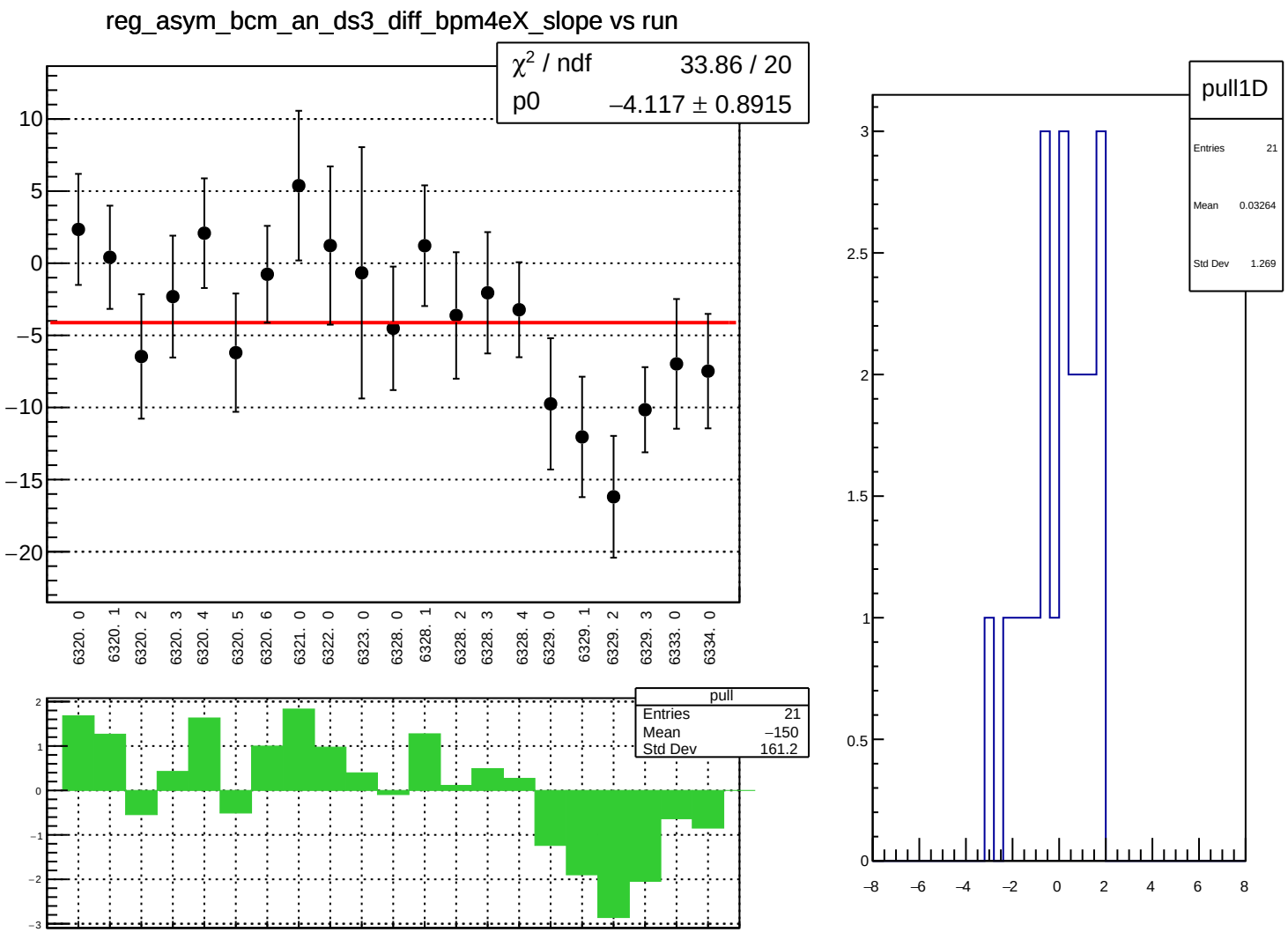

pull1D
Entries 21
Mean 0.002127
Std Dev 0.7825
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

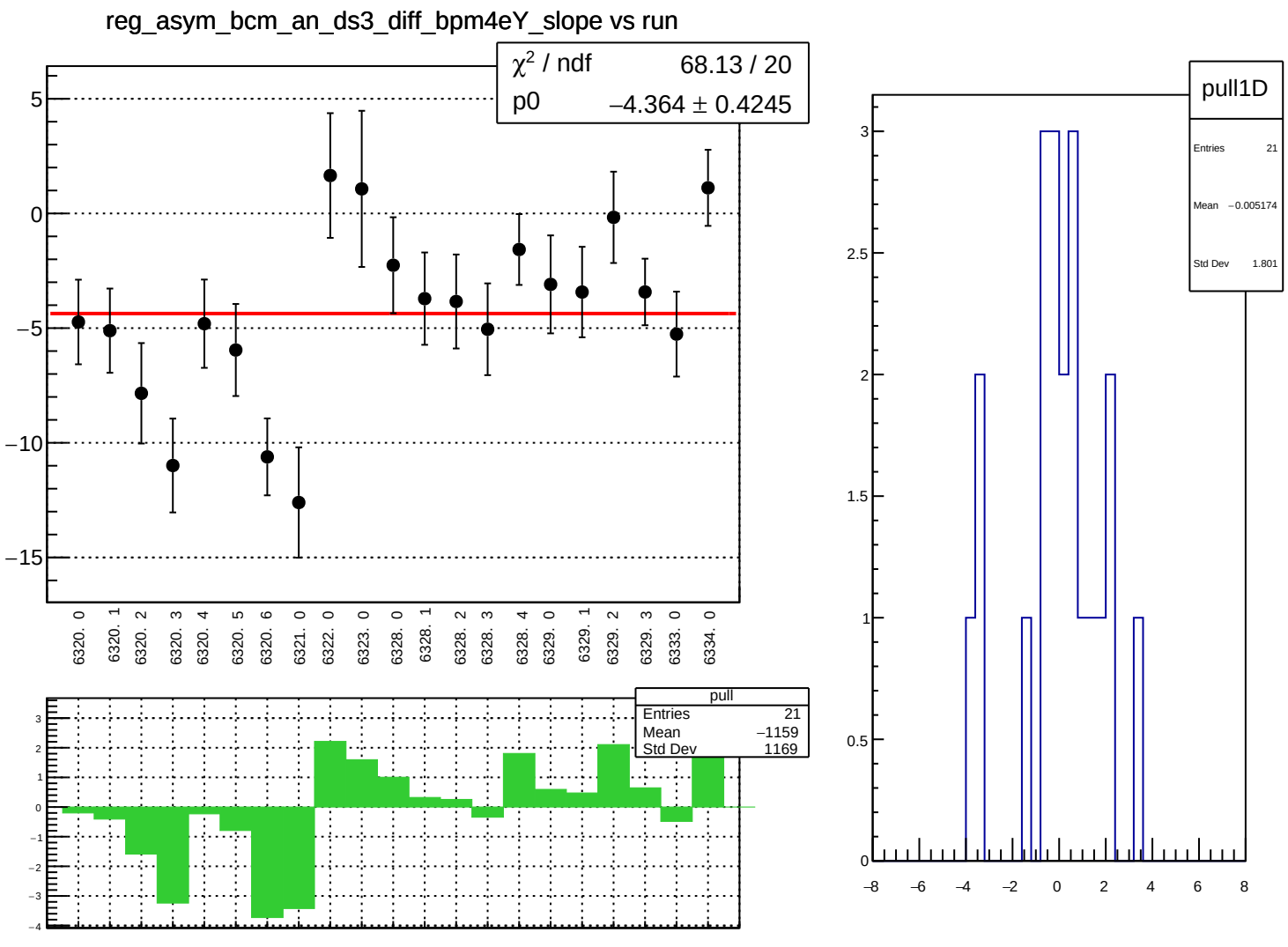

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.2 / 20
p0 −30.89 ± 3.3
60
40
20
0
−20
−40
−60
−80
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 61.96
Std Dev 54.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 21
Mean 0.05948
Std Dev 1.072
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

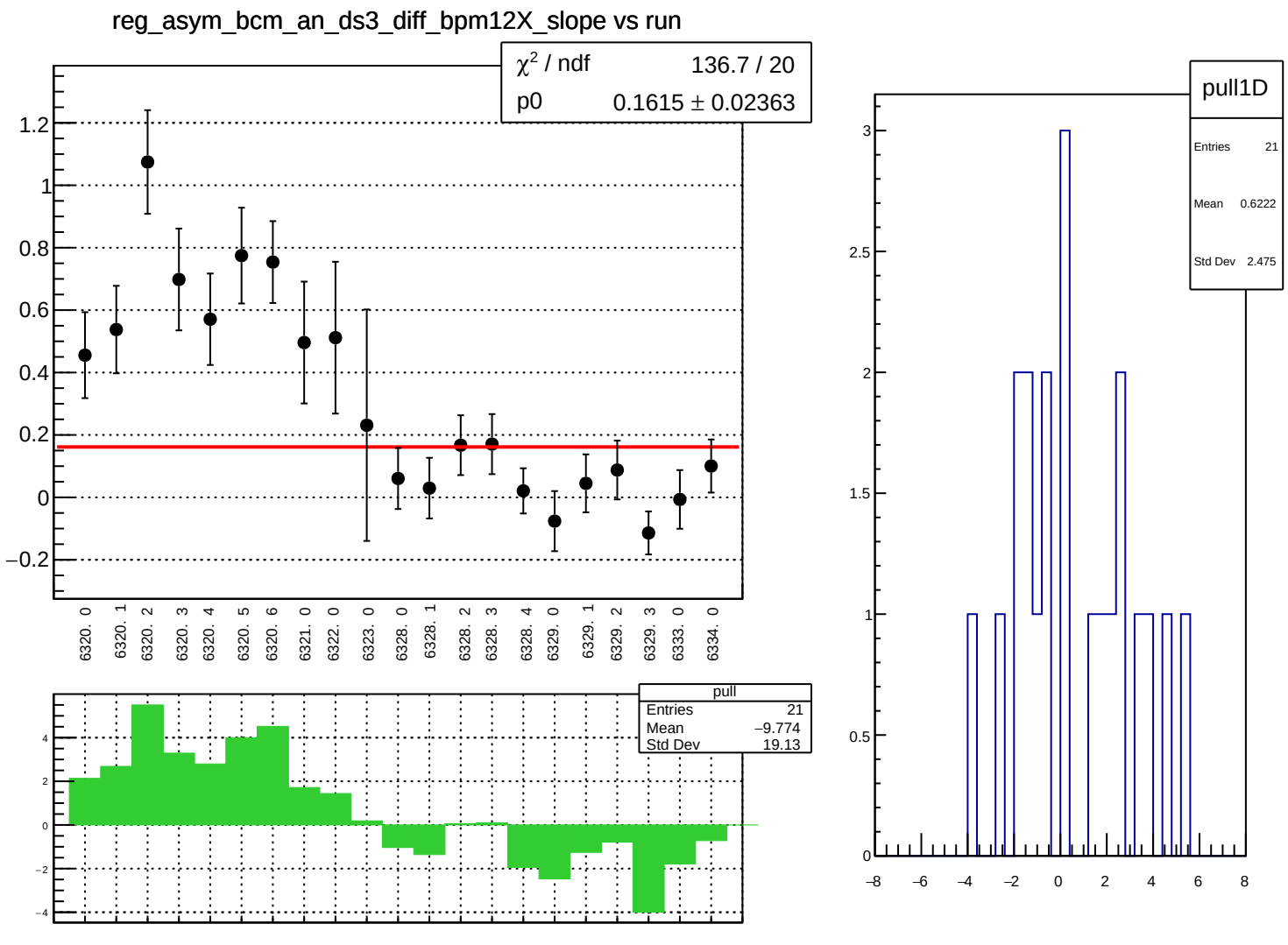

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 314.9 / 20
p0 35.43 ± 0.1858
42
40
38
36
34
32
30
28
26
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −16.81
Std Dev 25.9
4
2
0
−2
−4
−6
pull1D
Entries 21
Mean −0.7102
Std Dev 3.807
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

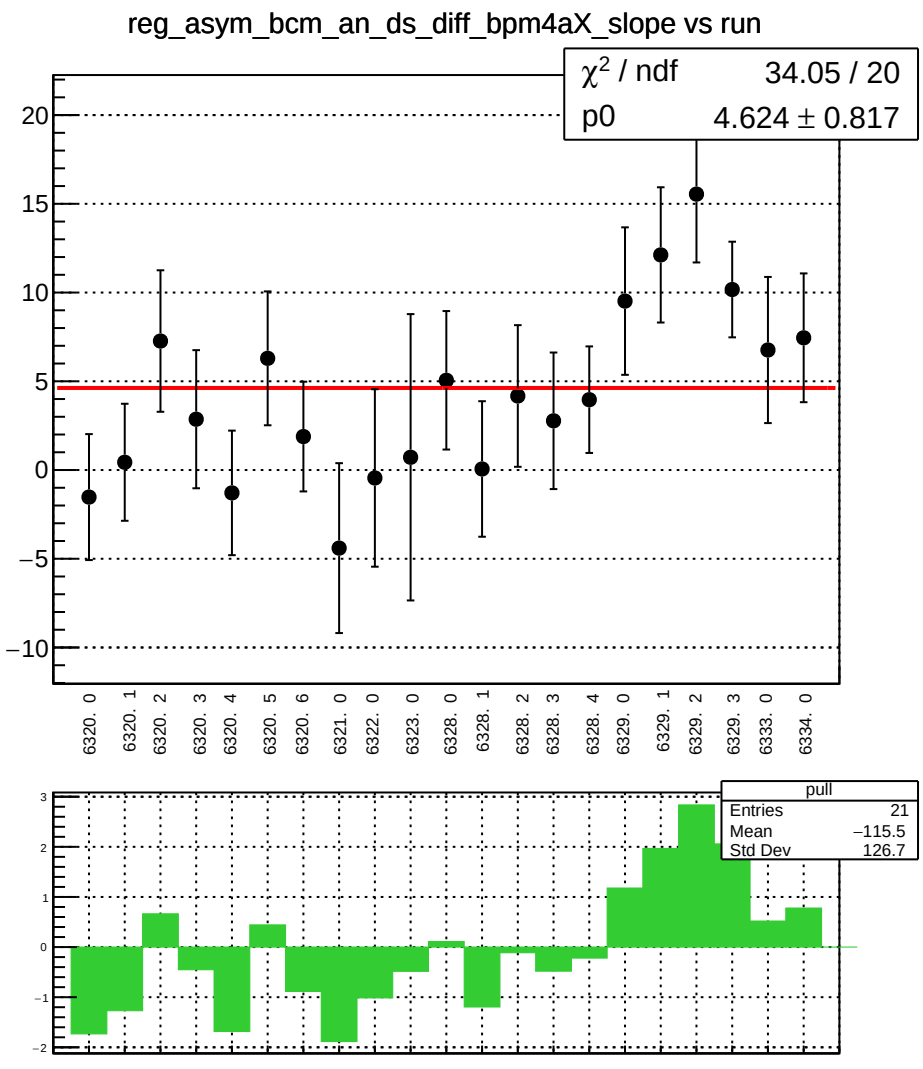

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 34.02 / 20
p0 4.874 ± 0.8212
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −115.3
Std Dev 126.4
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04113
Std Dev 1.272
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

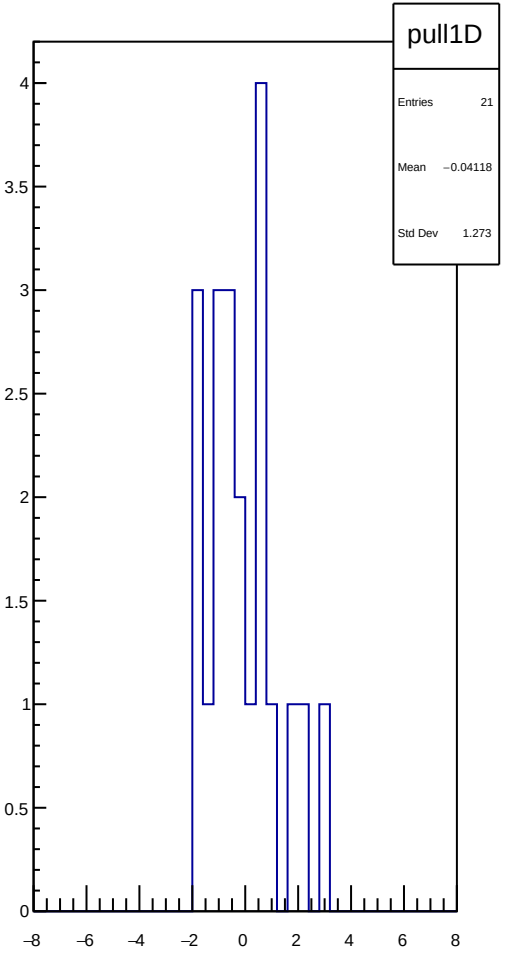

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 31.4 / 20
p0 1.693 ± 0.368
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 69.63
Std Dev 58.58
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05141
Std Dev 1.222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

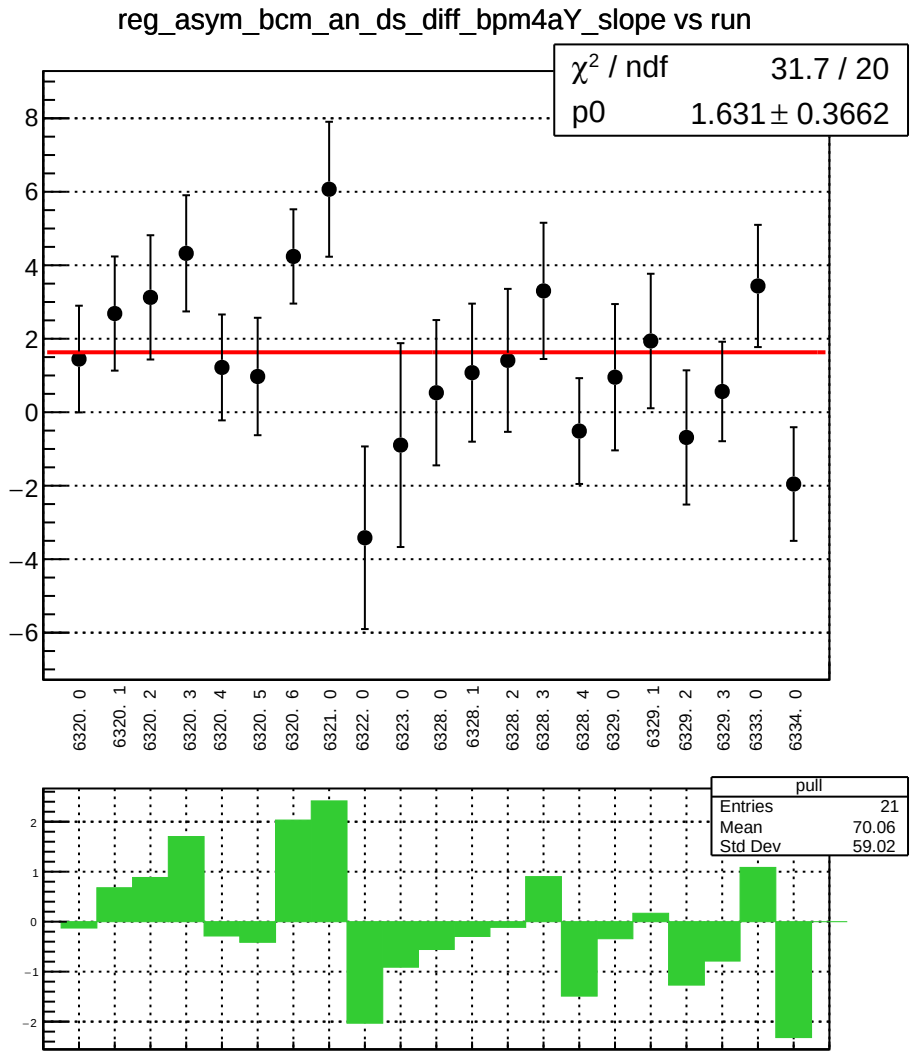

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 33.86 / 20
p0 −4.117 ± 0.8915
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −150
Std Dev 161.2
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.03264
Std Dev 1.269
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

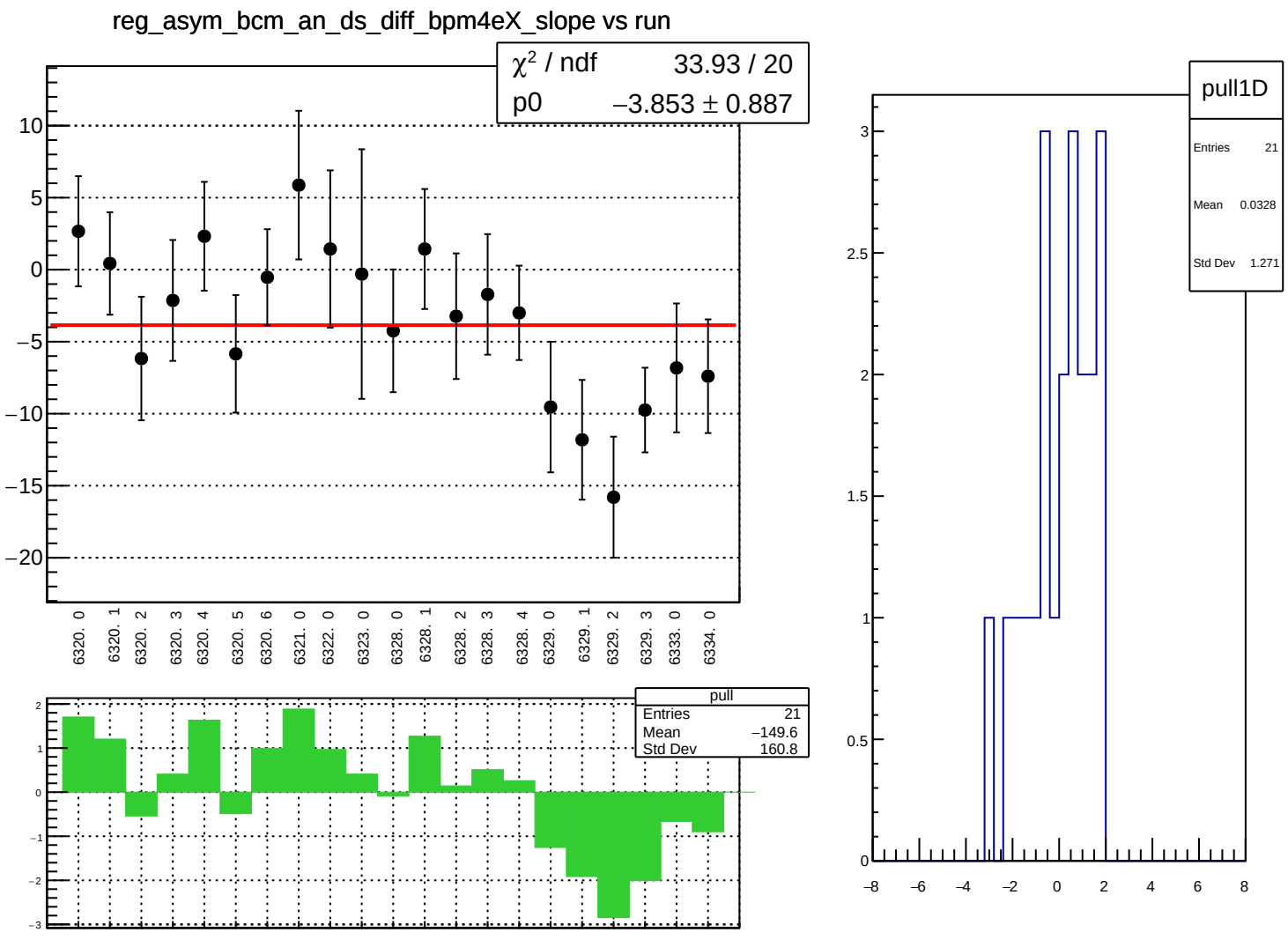

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 68.13 / 20
p0 −4.364 ± 0.4245
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1159
Std Dev 1169
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.005174
Std Dev 1.801
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

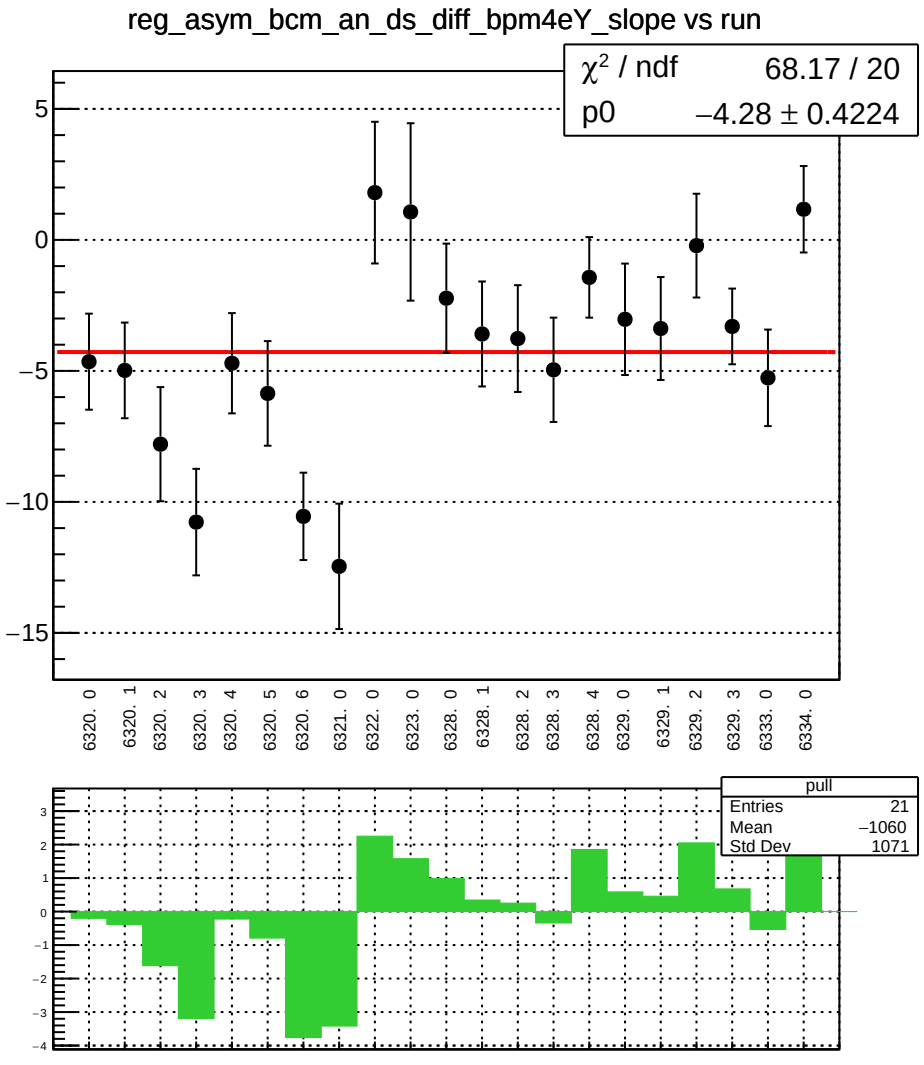

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 136.7 / 20
p0 0.1615 ± 0.02363
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.774
Std Dev 19.13
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6222
Std Dev 2.475
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

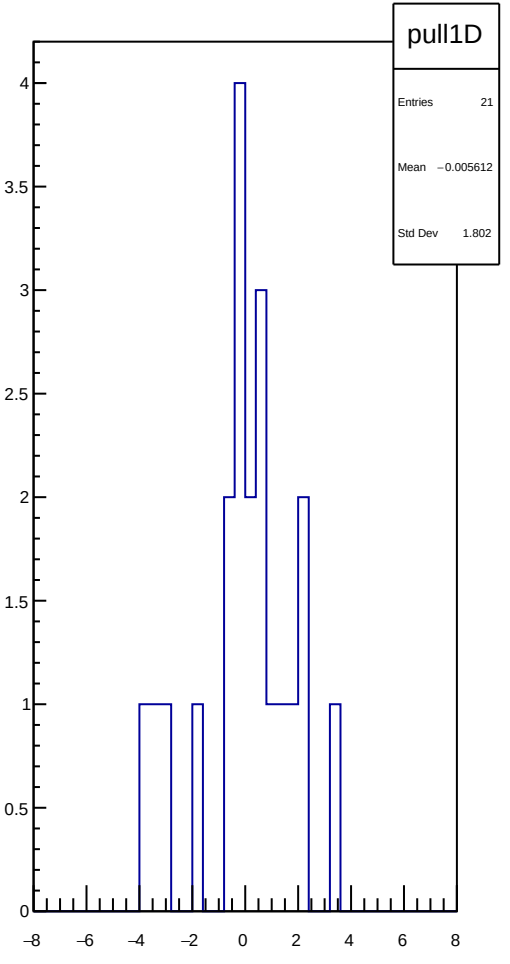

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 34.05 / 20
p0 4.624 ± 0.817
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −115.5
Std Dev 126.7
3
2
1
0
−1
−2

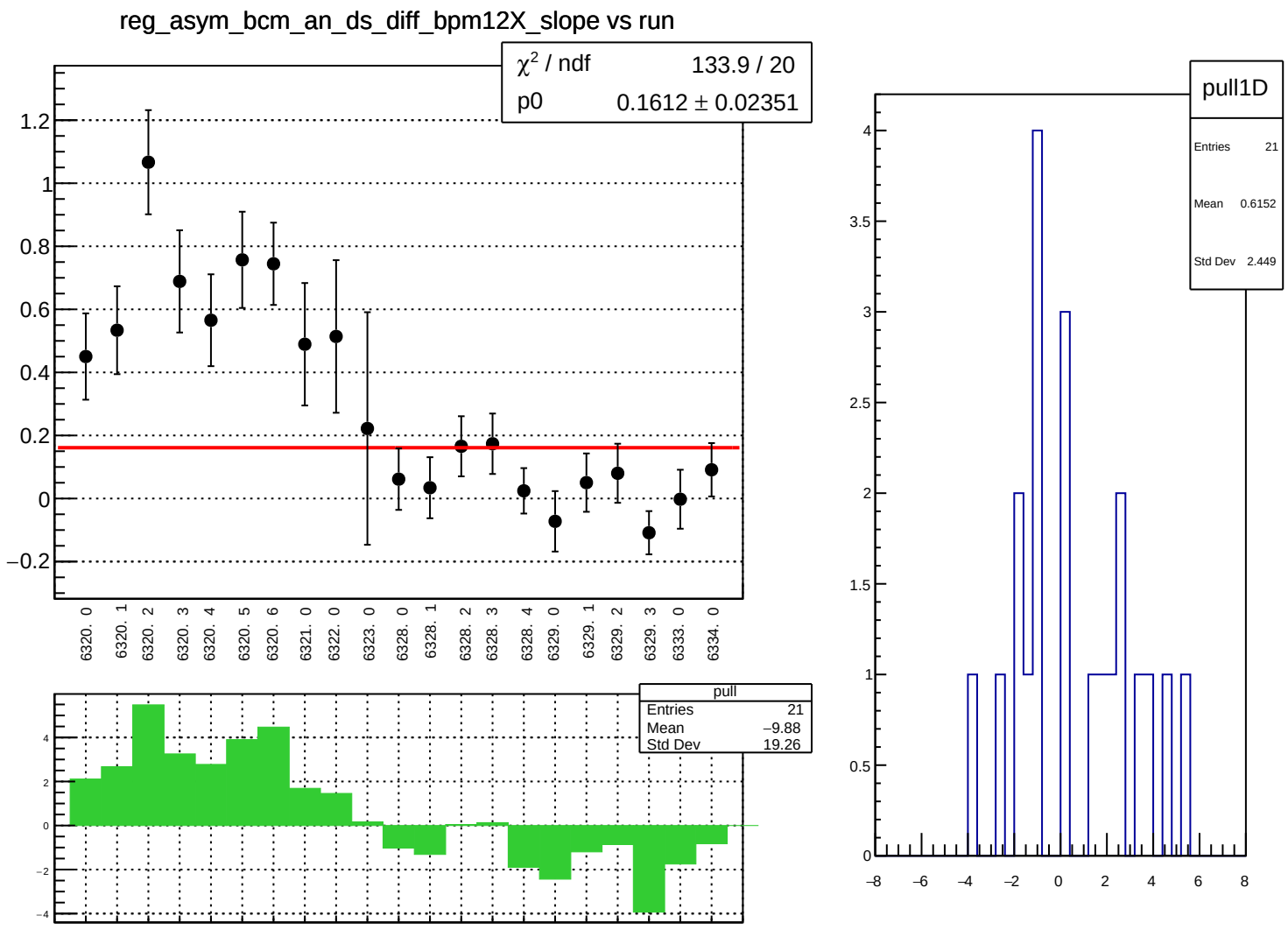

pull1D
Entries 21
Mean −0.04118
Std Dev 1.273
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

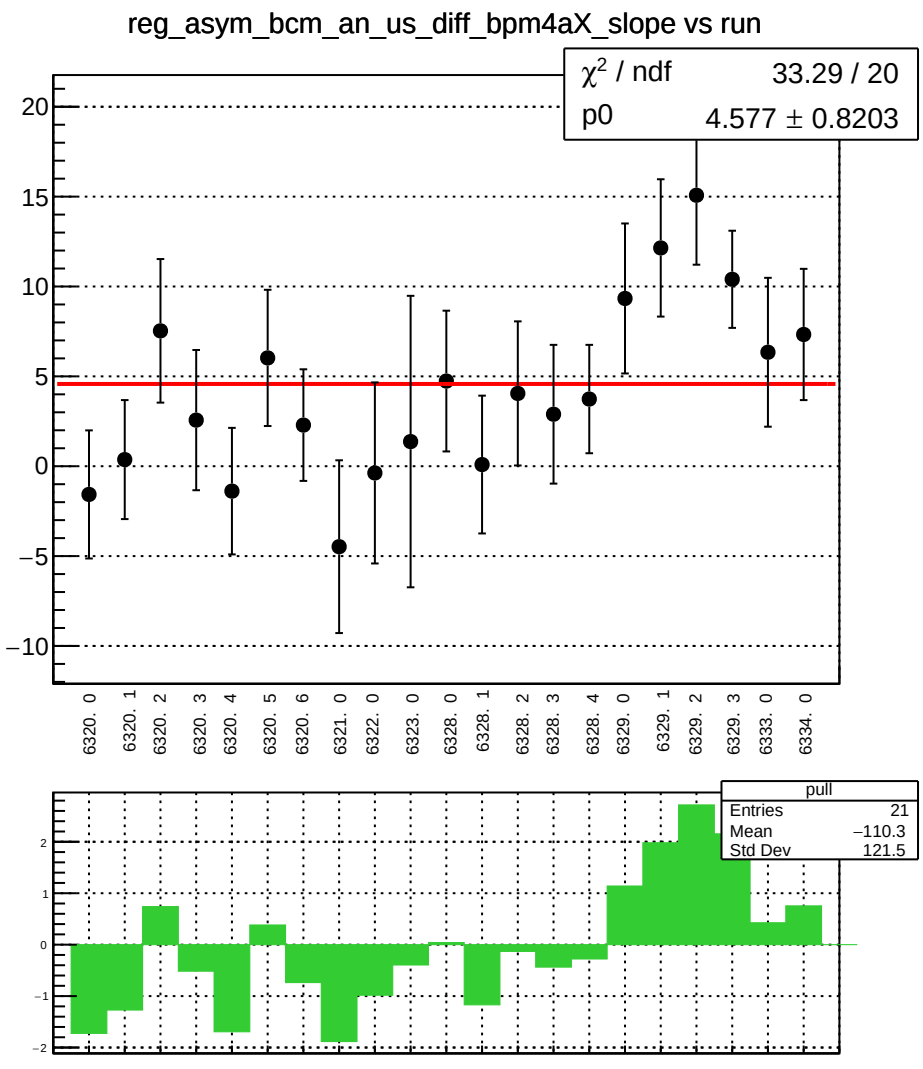

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 31.7 / 20
p0 1.631 ± 0.3662
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 70.06
Std Dev 59.02
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.0508
Std Dev 1.228
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

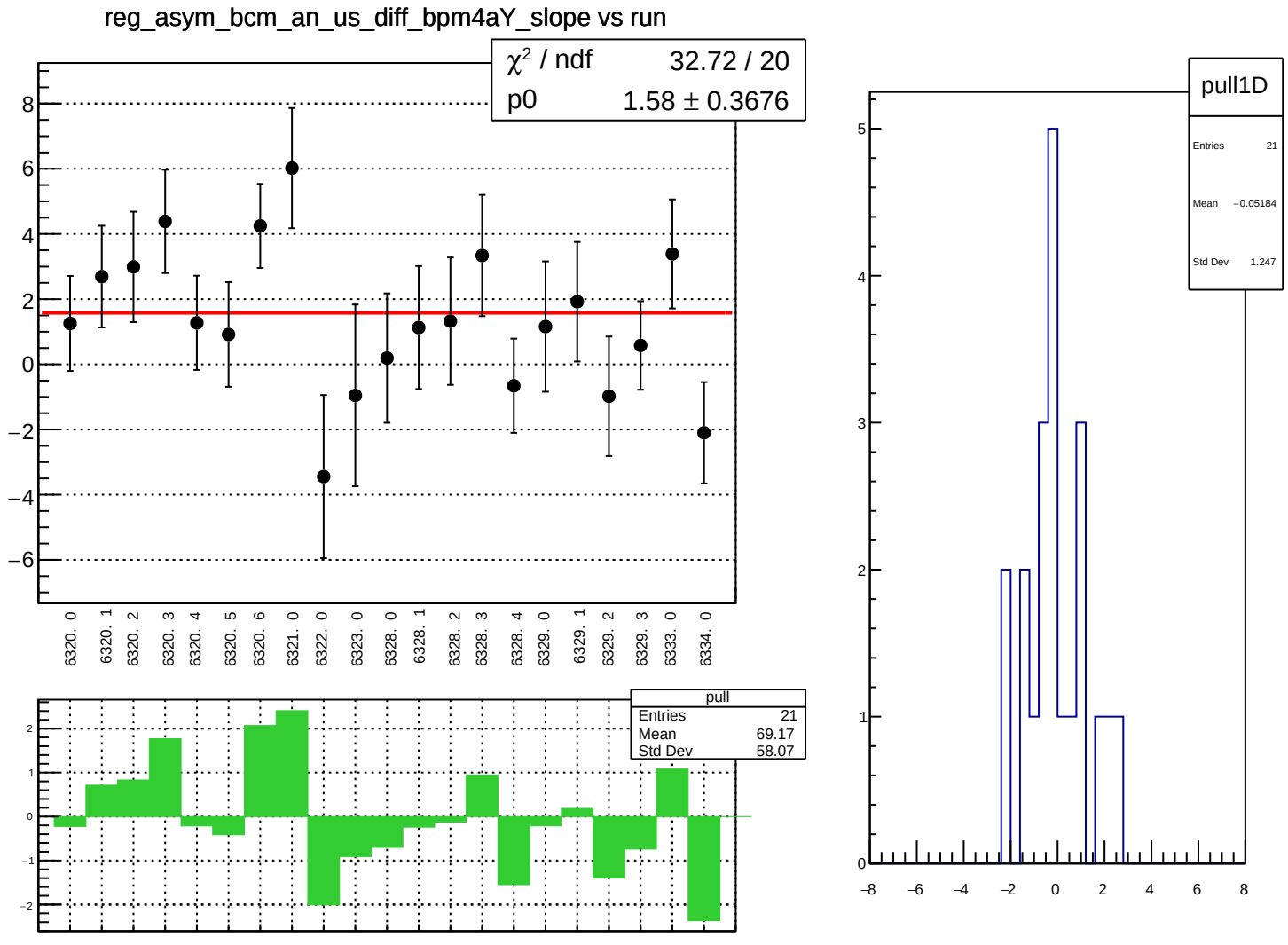

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 33.93 / 20
p0 −3.853 ± 0.887
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −149.6
Std Dev 160.8
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.0328
Std Dev 1.271
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

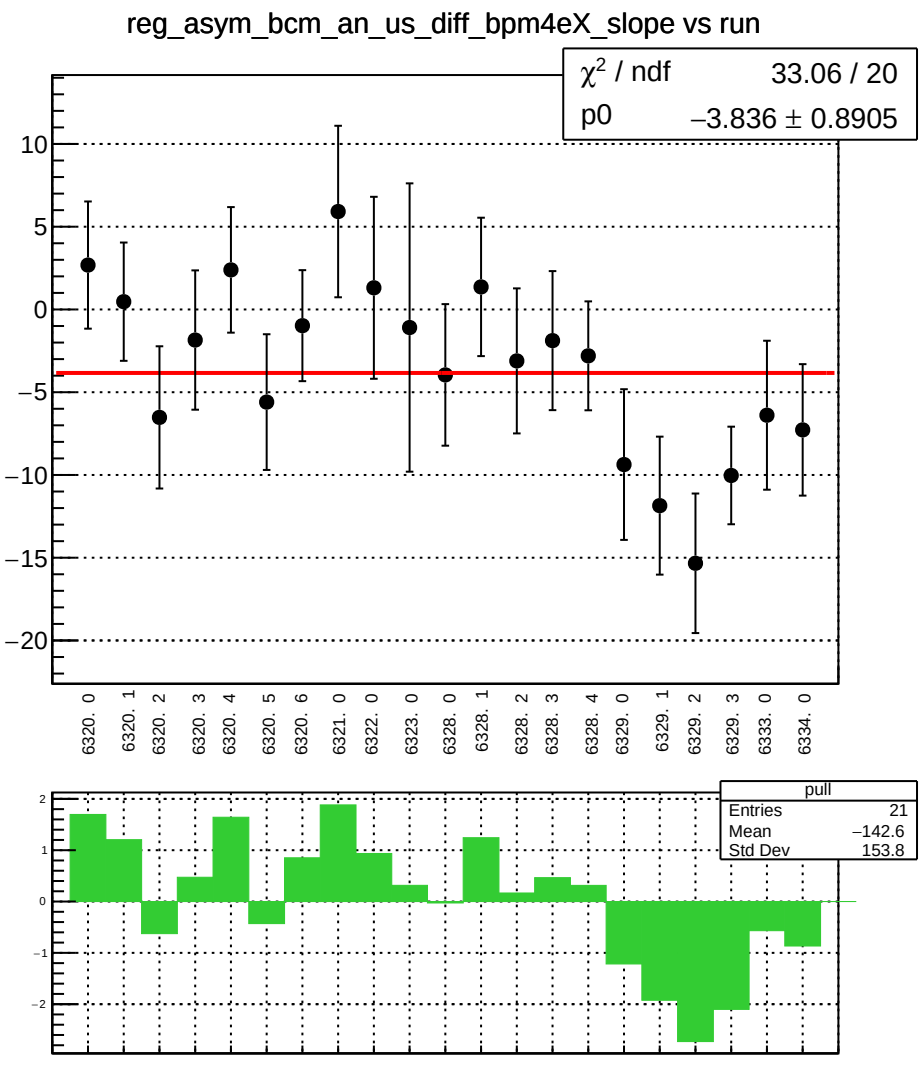

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.17 / 20
p0 −4.28 ± 0.4224
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −1060
Std Dev 1071
3
2
1
0
−1
−2
−3
−4

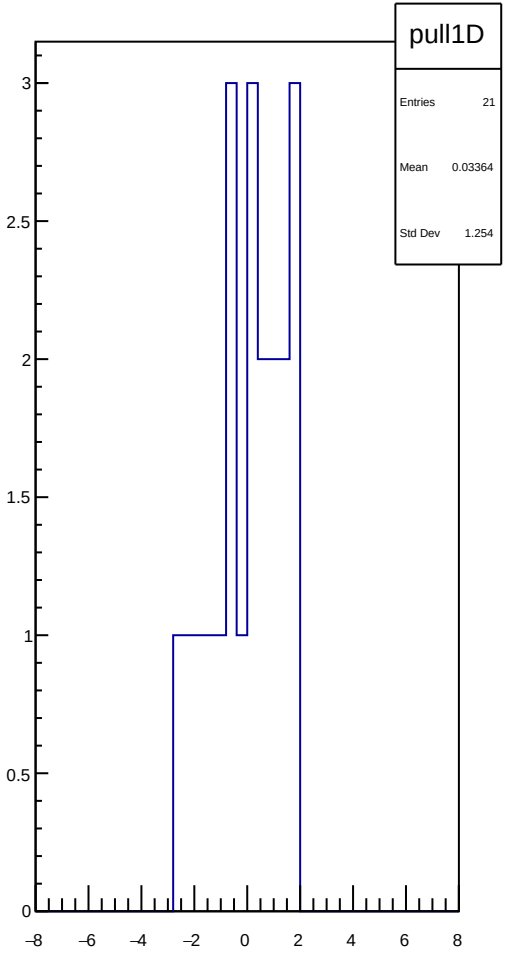

pull1D
Entries 21
Mean −0.005612
Std Dev 1.802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

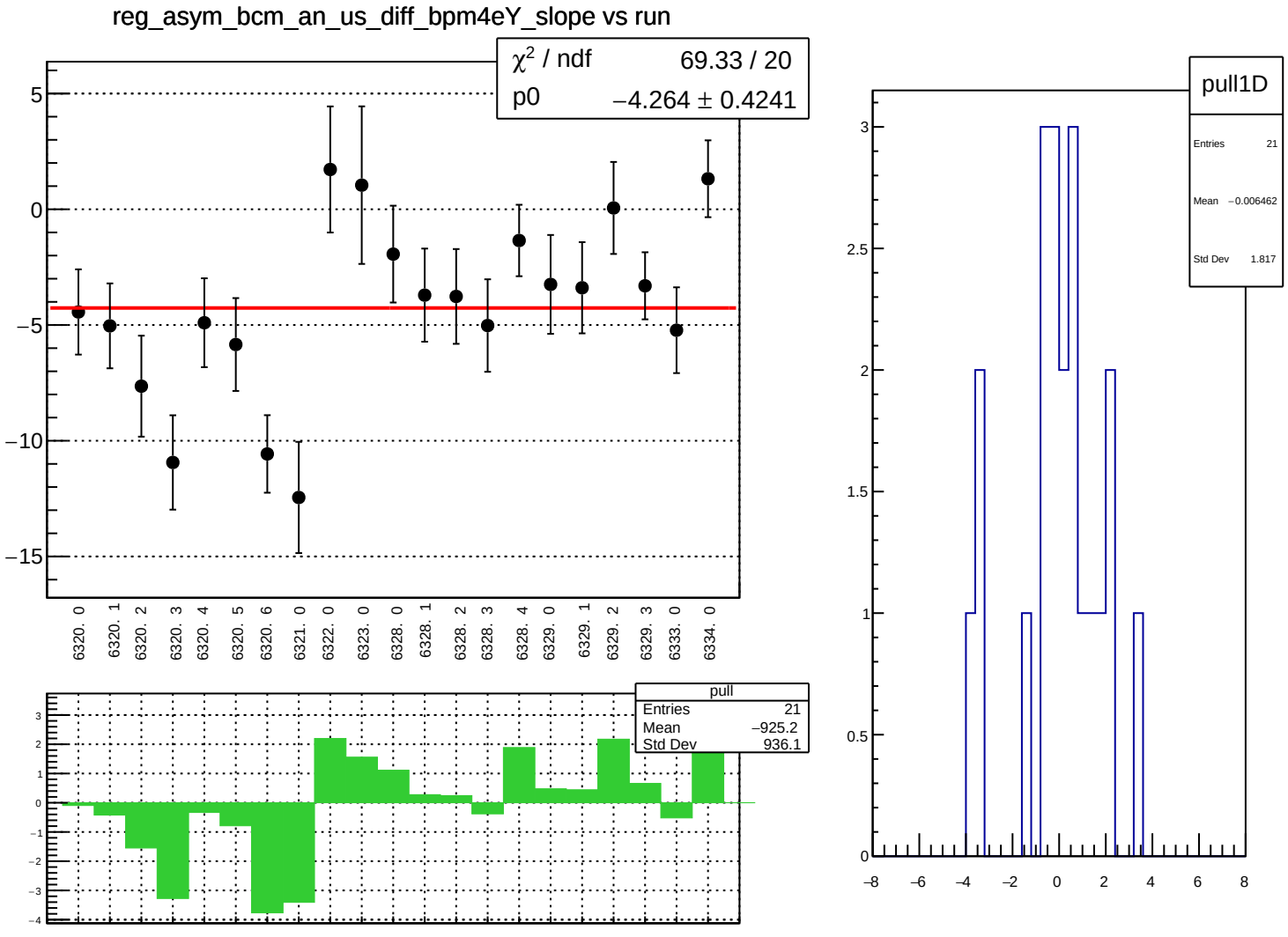

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 133.9 / 20
p0 0.1612 ± 0.02351
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.88
Std Dev 19.26
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6152
Std Dev 2.449
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

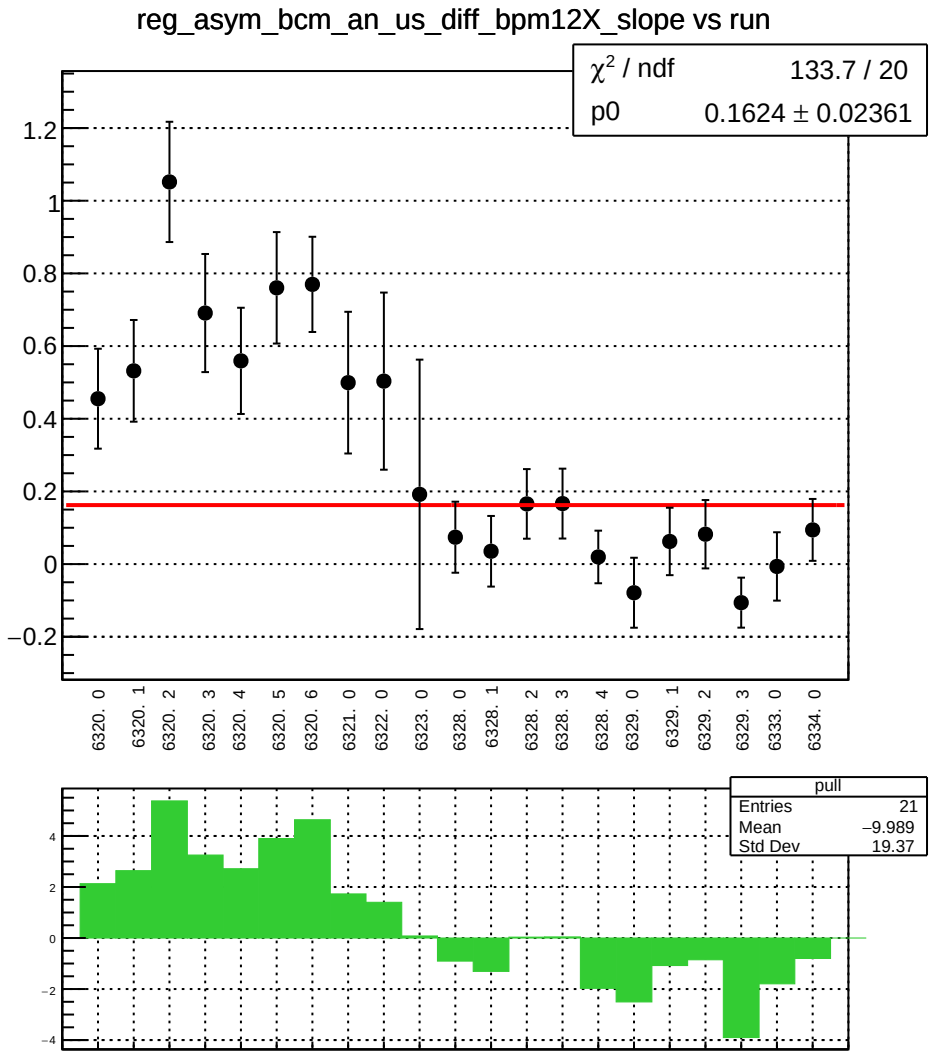

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 33.29 / 20
p0 4.577 ± 0.8203
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −110.3
Std Dev 121.5
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04214
Std Dev 1.258
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

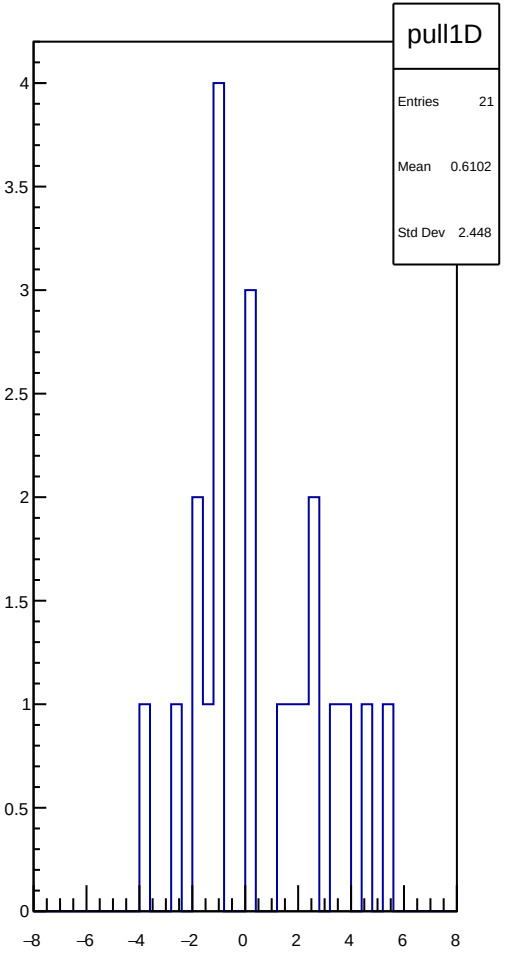

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 32.72 / 20
p0 1.58 ± 0.3676
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 69.17
Std Dev 58.07
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05184
Std Dev 1.247
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

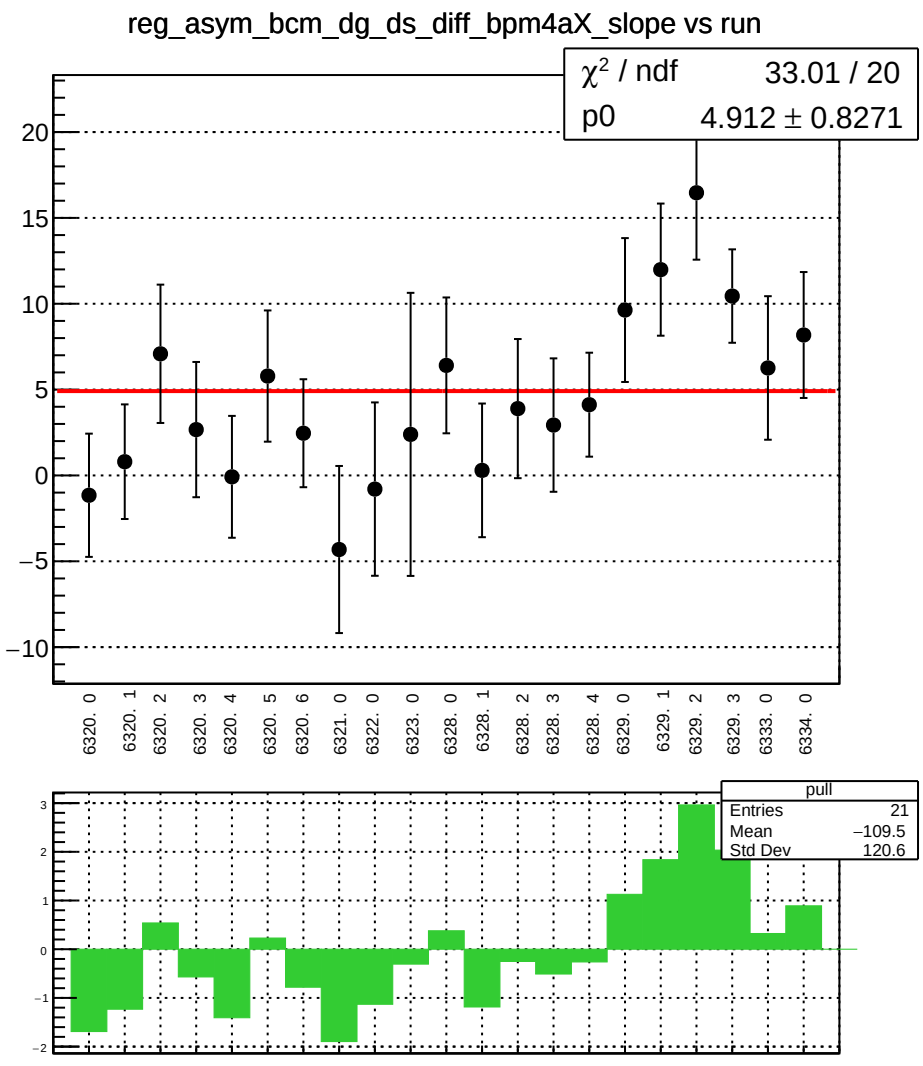

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 33.06 / 20
p0 −3.836 ± 0.8905
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −142.6
Std Dev 153.8
2
1
0
−1
−2

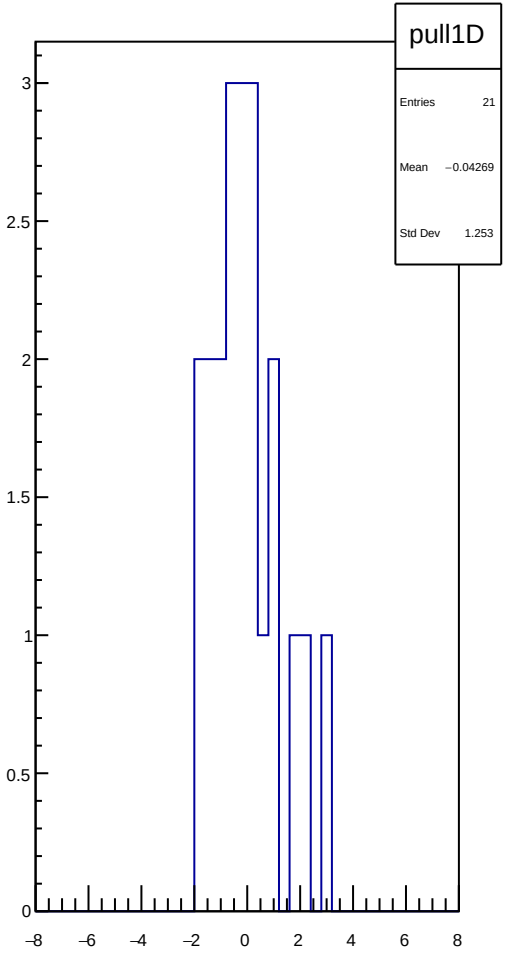

pull1D
Entries 21
Mean 0.03364
Std Dev 1.254
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

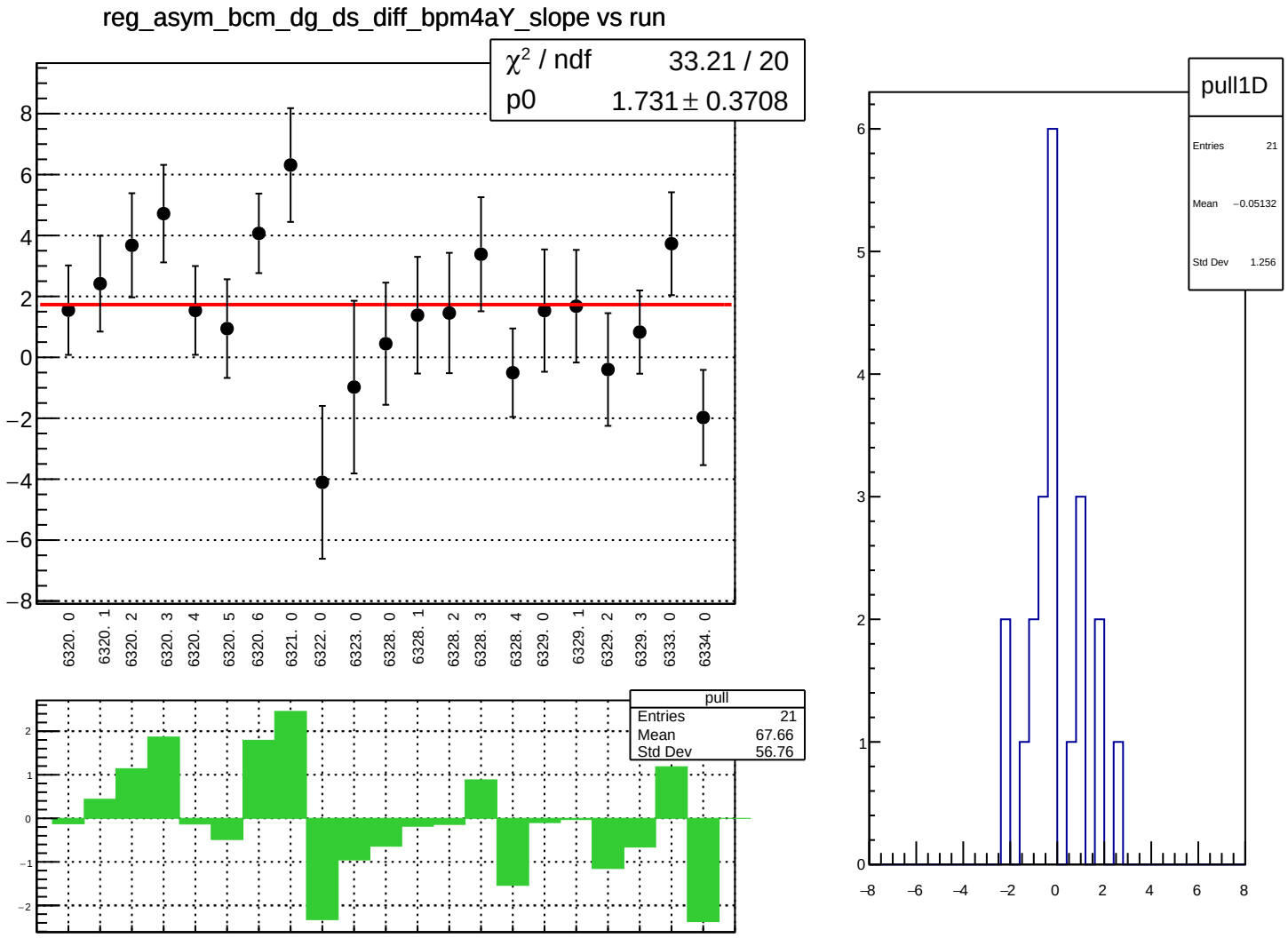

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 69.33 / 20
p0 −4.264 ± 0.4241
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −925.2
Std Dev 936.1
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 21
Mean −0.006462
Std Dev 1.817
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

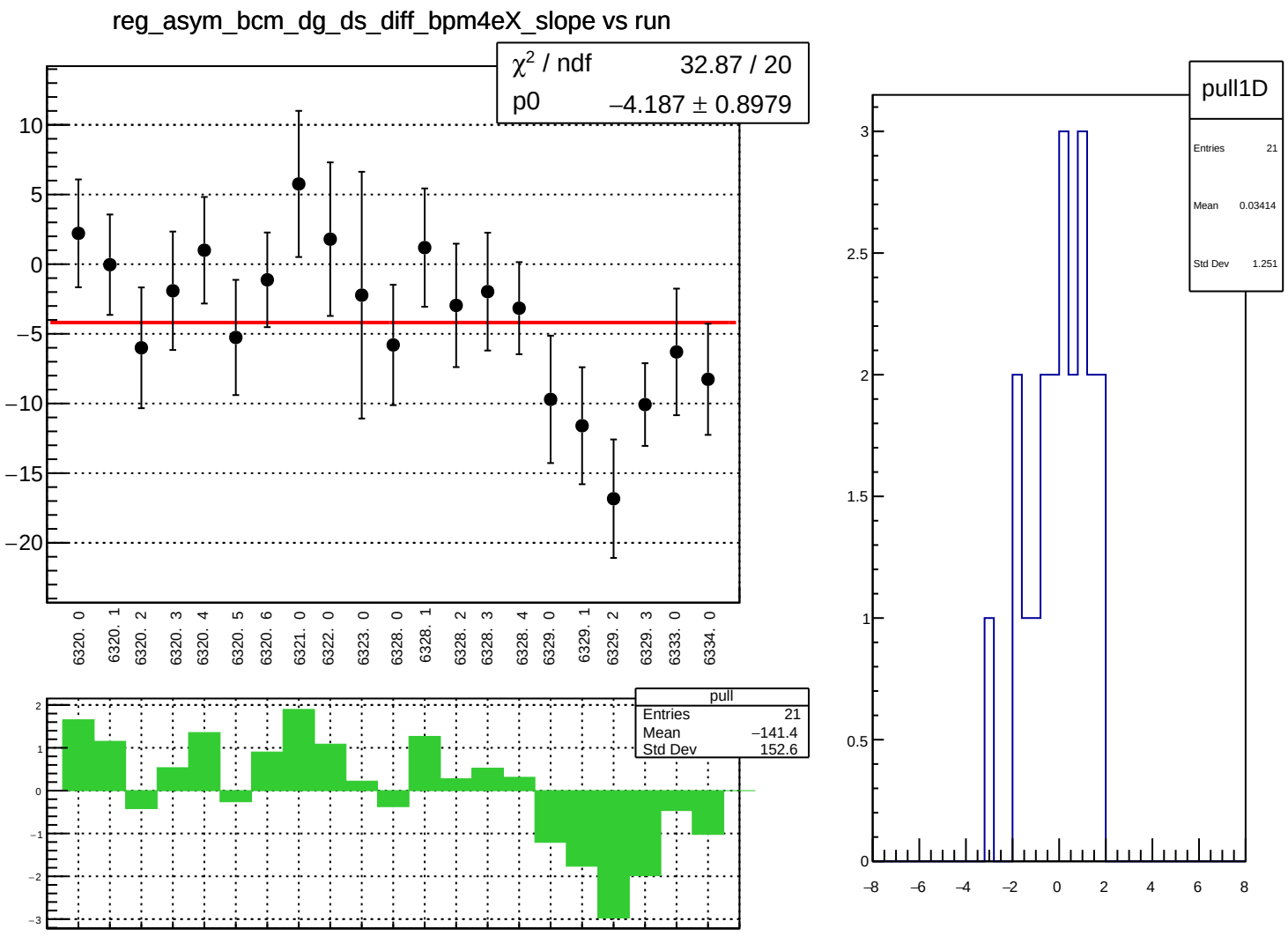

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 133.7 / 20
p0 0.1624 ± 0.02361
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −9.989
Std Dev 19.37
4
2
0
−2
−4

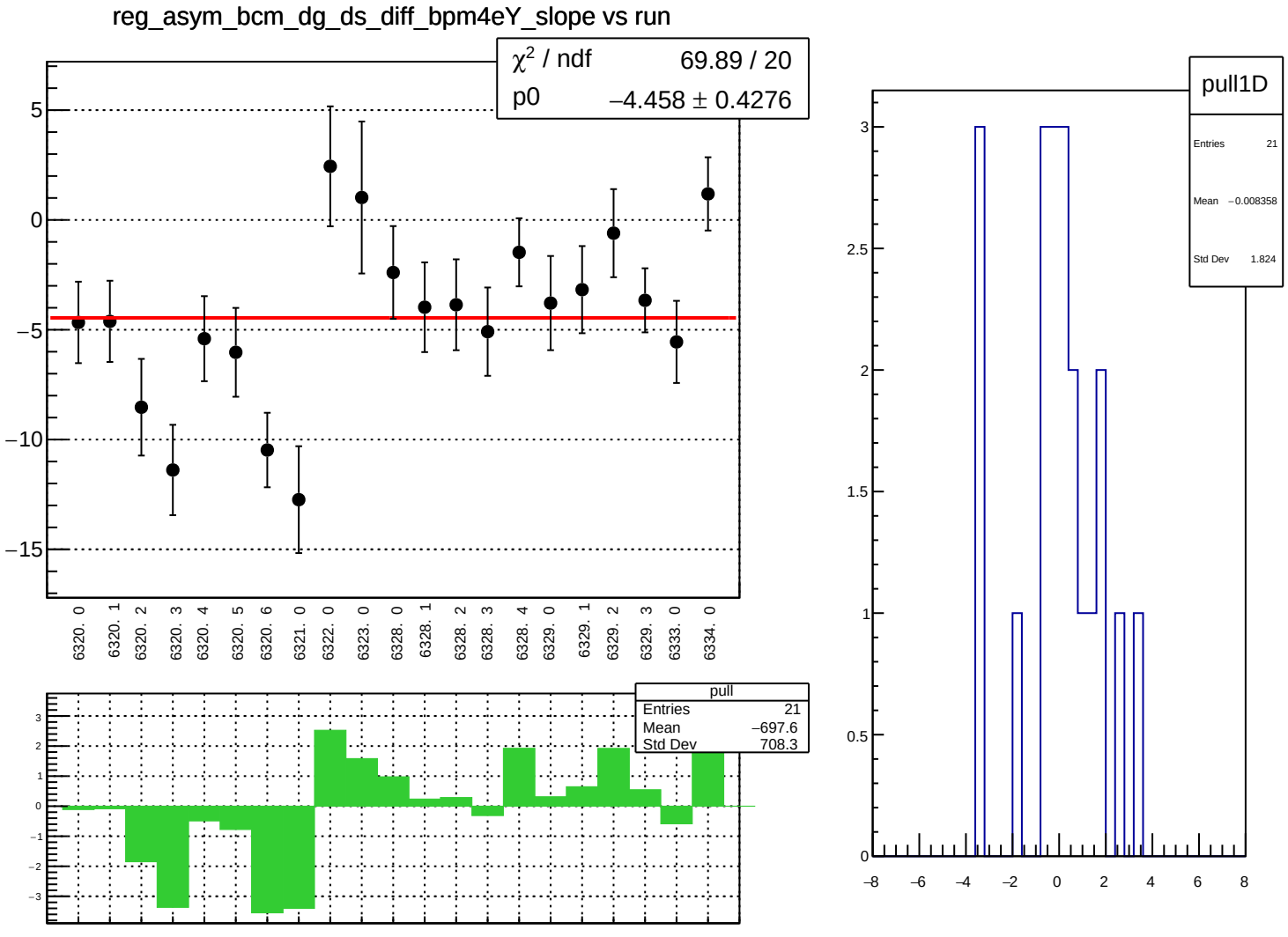

pull1D
Entries 21
Mean 0.6102
Std Dev 2.448
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

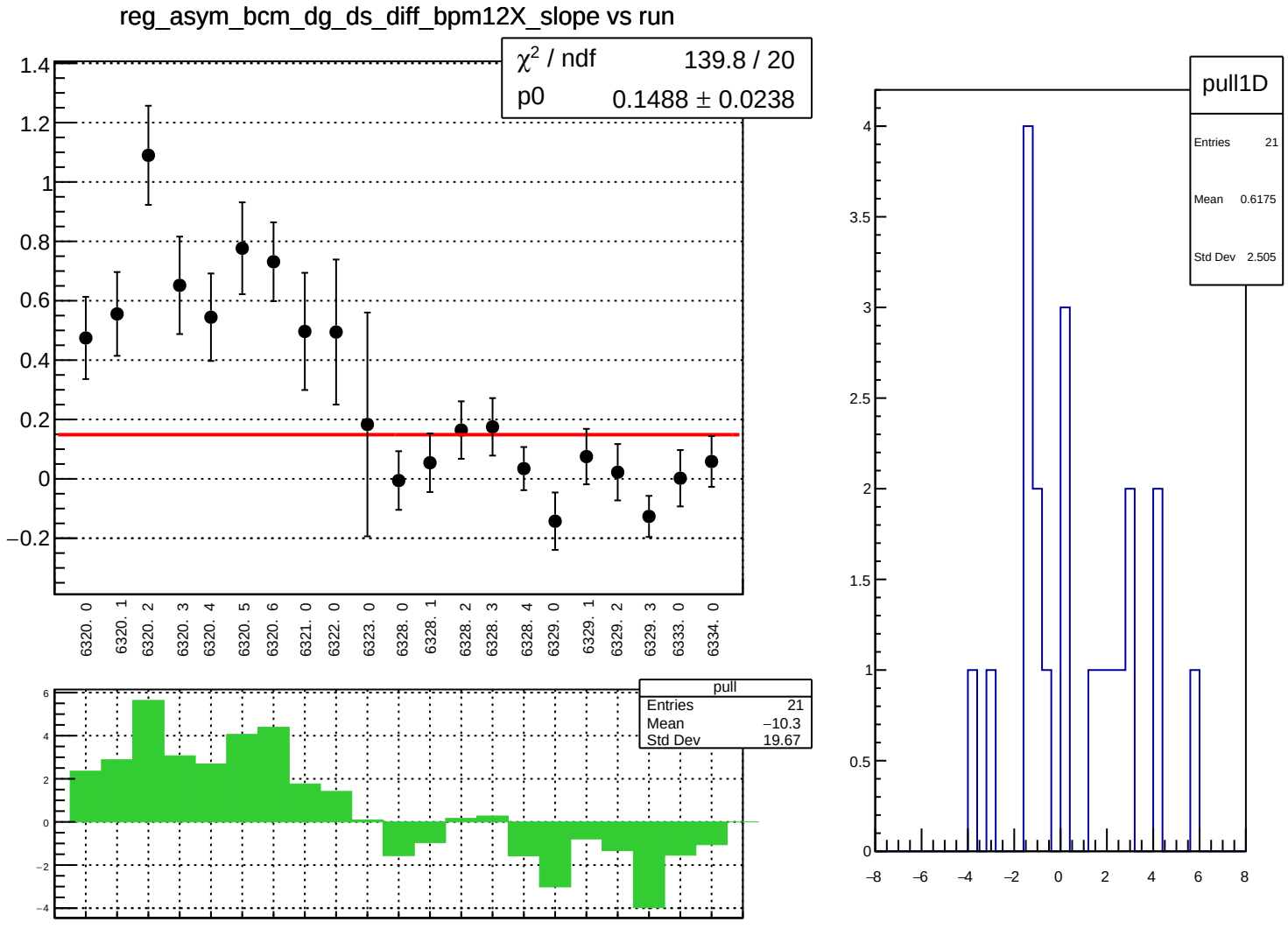

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 33.01 / 20
p0 4.912 ± 0.8271
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −109.5
Std Dev 120.6
3
2
1
0
−1
−2

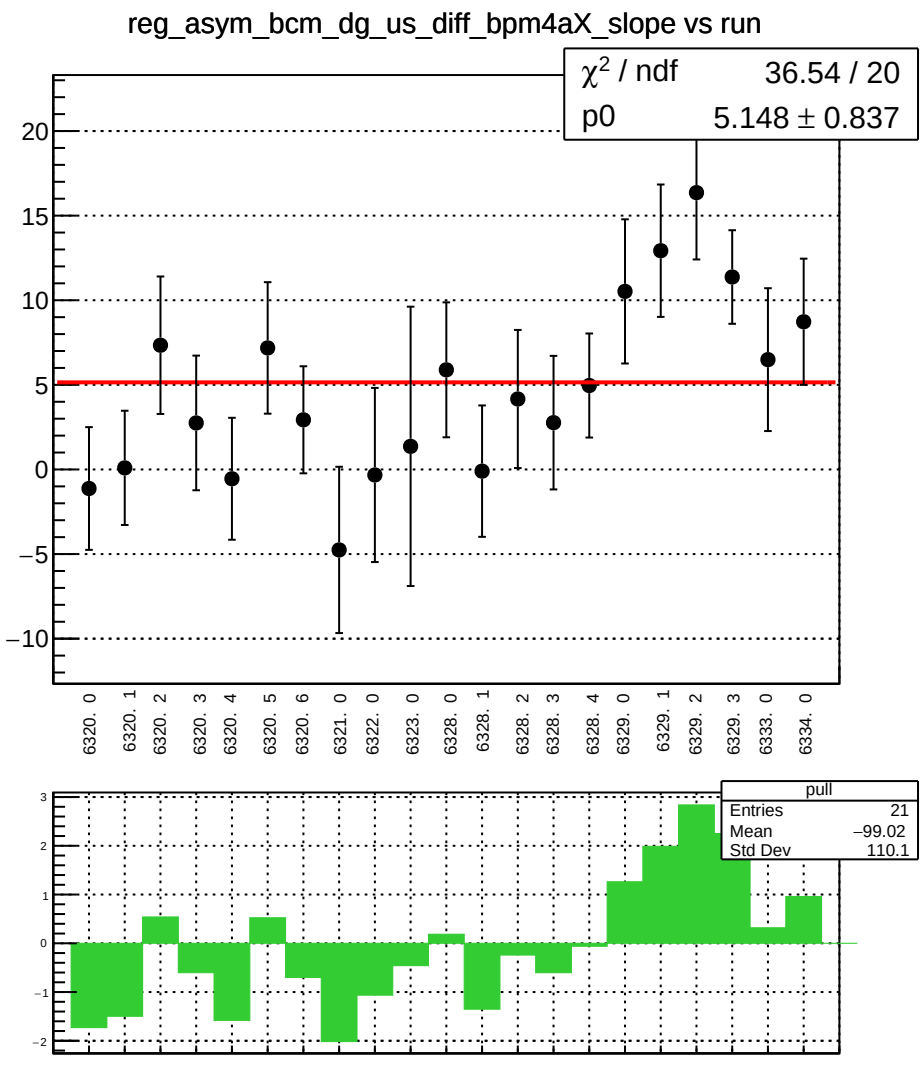

pull1D
Entries 21
Mean −0.04269
Std Dev 1.253
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

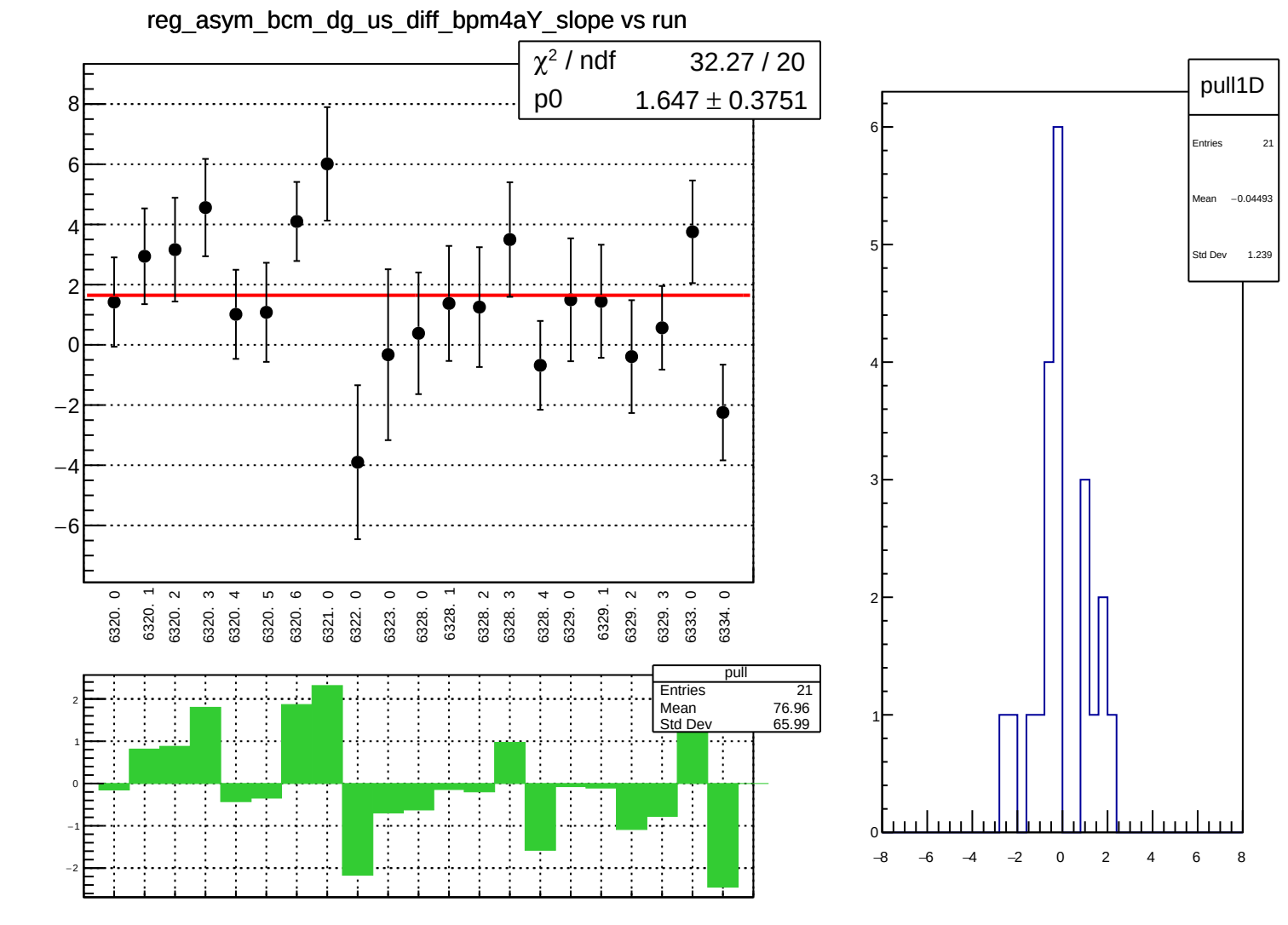

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 33.21 / 20
p0 1.731 ± 0.3708
8
6
4
2
0
−2
−4
−6
−8
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 67.66
Std Dev 56.76
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.05132
Std Dev 1.256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

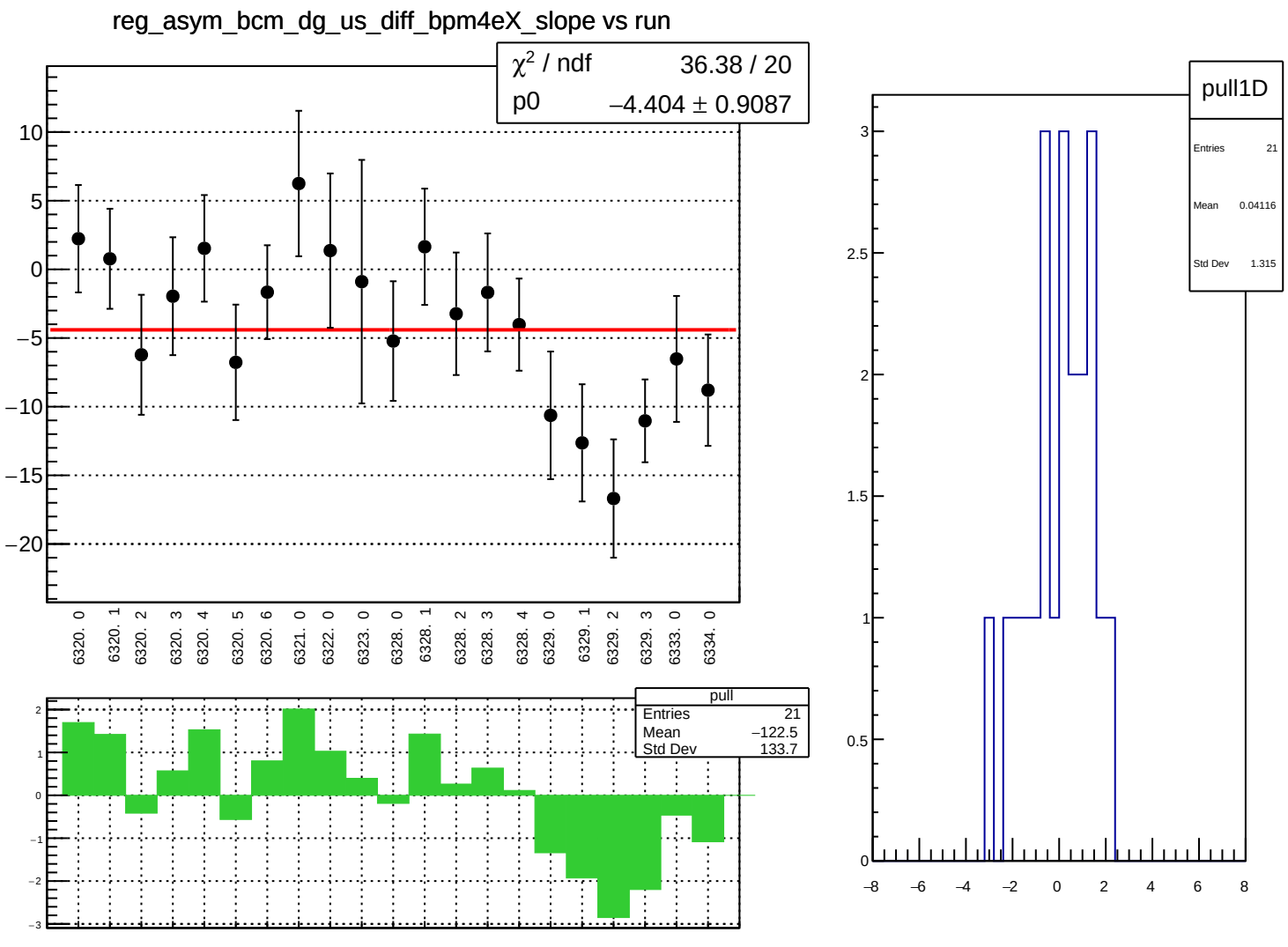

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 32.87 / 20
p0 −4.187 ± 0.8979
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −141.4
Std Dev 152.6
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.03414
Std Dev 1.251
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

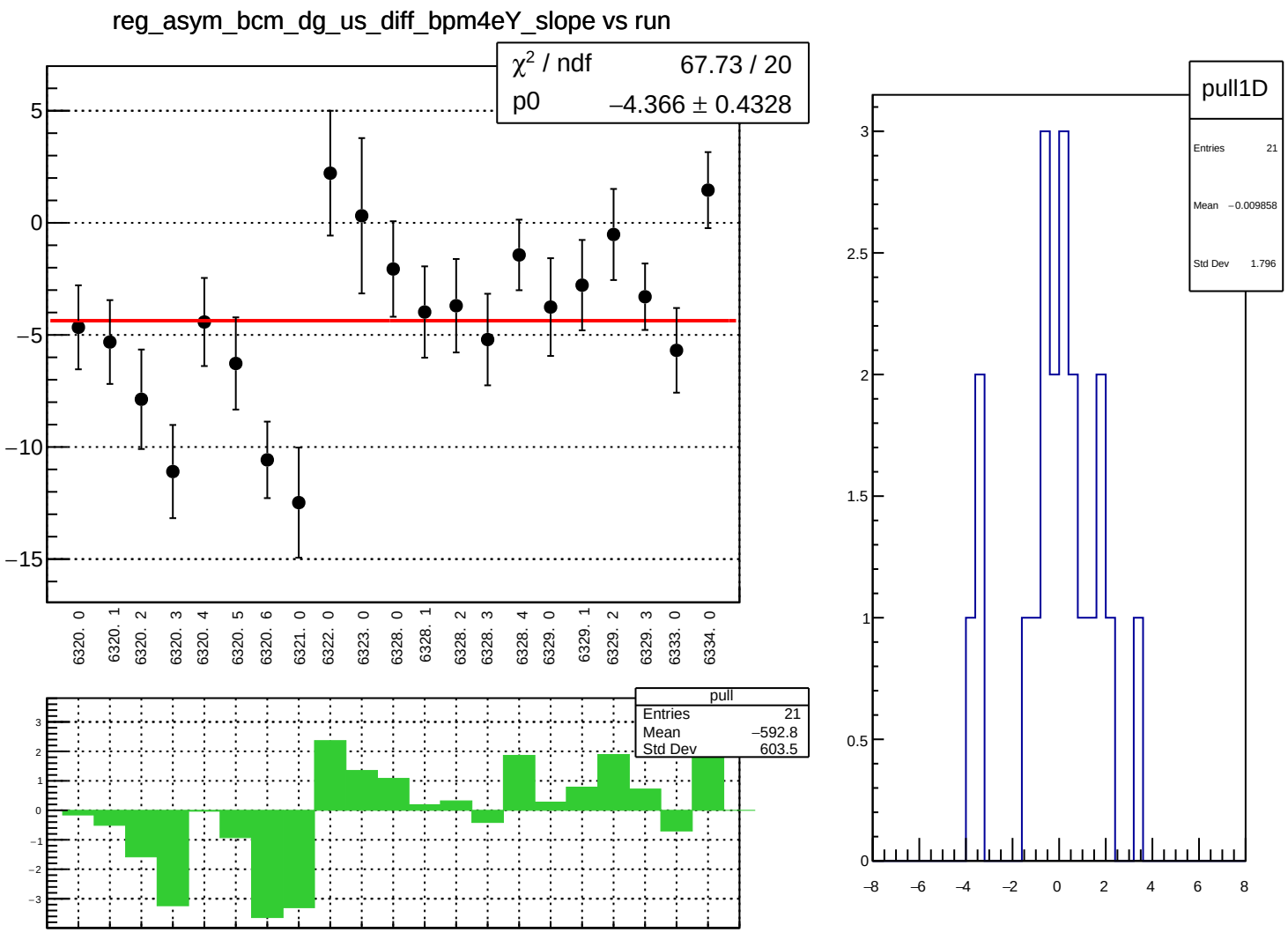

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 69.89 / 20
p0 −4.458 ± 0.4276
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −697.6
Std Dev 708.3
3
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean −0.008358
Std Dev 1.824
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

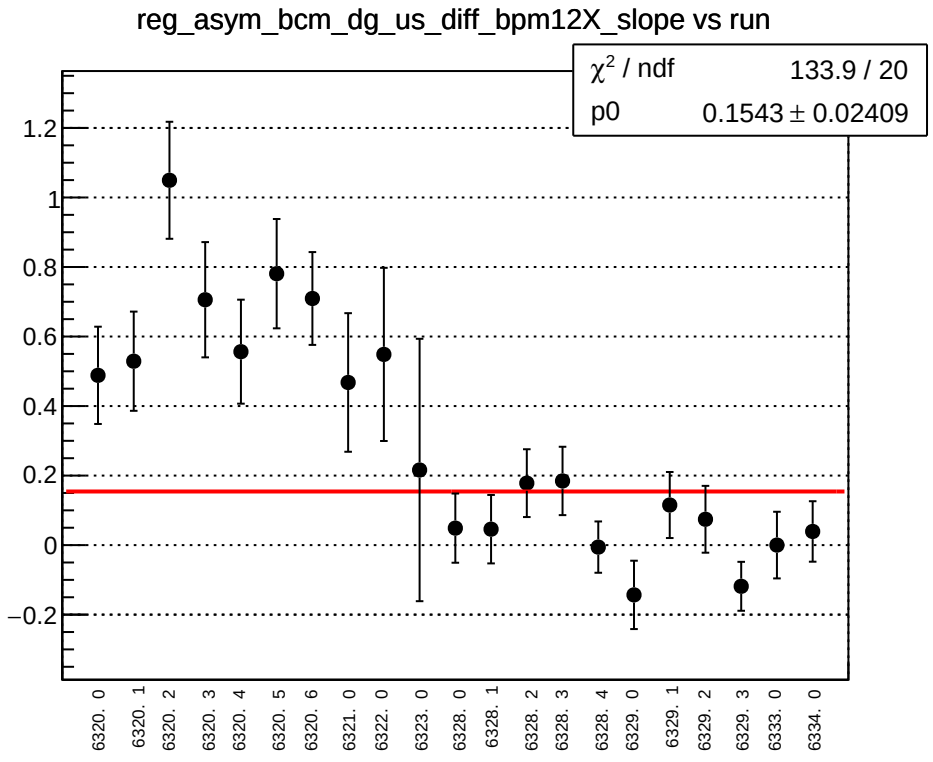

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 139.8 / 20
p0 0.1488 ± 0.0238
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −10.3
Std Dev 19.67
6
4
2
0
−2
−4
pull1D
Entries 21
Mean 0.6175
Std Dev 2.505
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

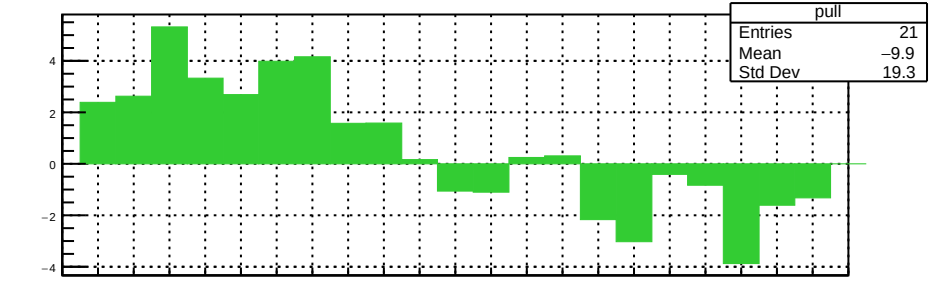

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 36.54 / 20
p0 5.148 ± 0.837
20
15
10
5
0
−5
−10
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −99.02
Std Dev 110.1
3
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04943
Std Dev 1.318
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

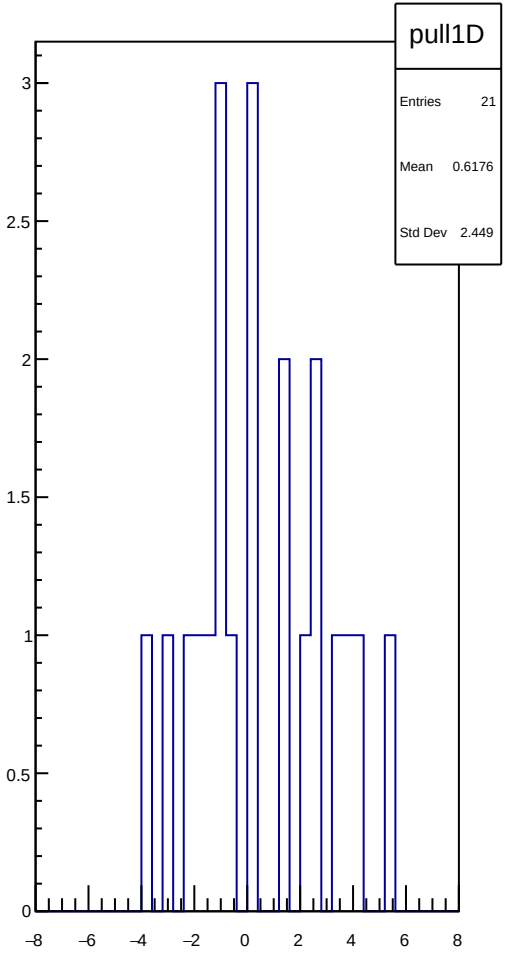

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 32.27 / 20
p0 1.647 ± 0.3751
8
6
4
2
0
−2
−4
−6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 76.96
Std Dev 65.99
2
1
0
−1
−2
pull1D
Entries 21
Mean −0.04493
Std Dev 1.239
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

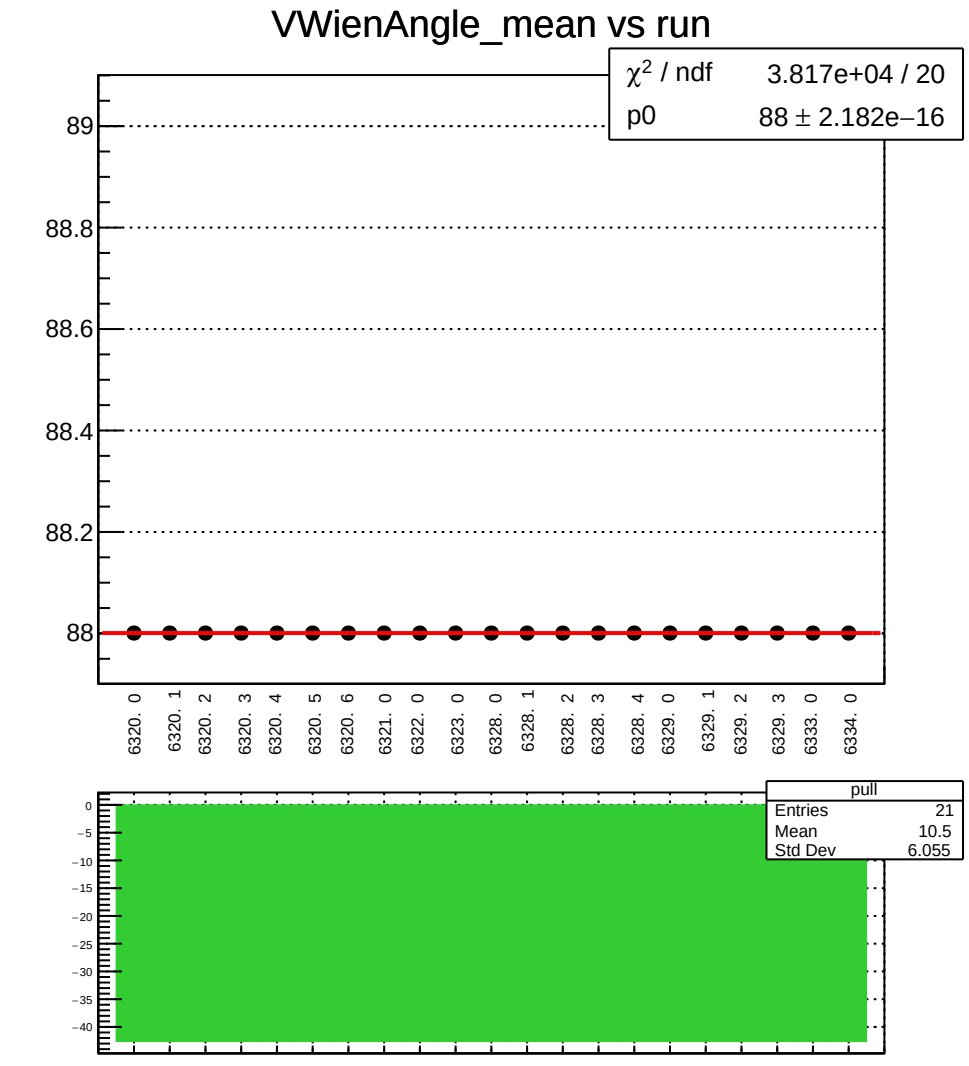

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 36.38 / 20
p0 −4.404 ± 0.9087
10
5
0
−5
−10
−15
−20
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −122.5
Std Dev 133.7
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean 0.04116
Std Dev 1.315
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

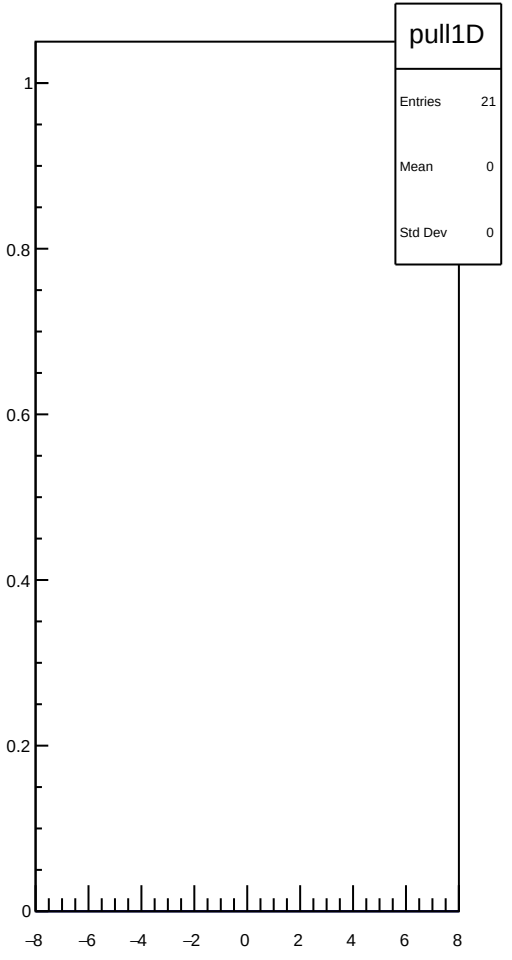

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 67.73 / 20
p0 −4.366 ± 0.4328
5
0
−5
−10
−15
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean −592.8
Std Dev 603.5
3
2
1
0
−1
−2
−3
pull1D
Entries 21
Mean −0.009858
Std Dev 1.796
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

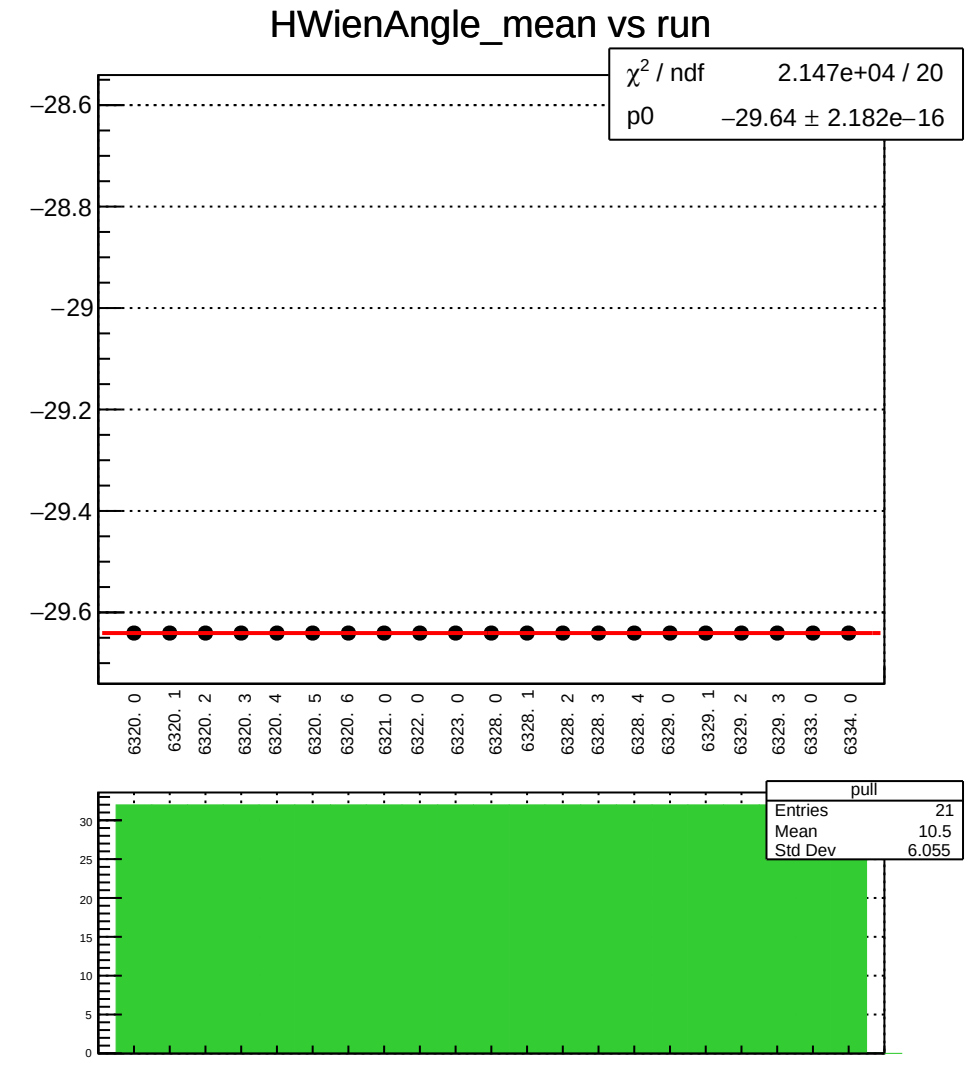

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 133.9 / 20
p0 0.1543 ± 0.02409
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

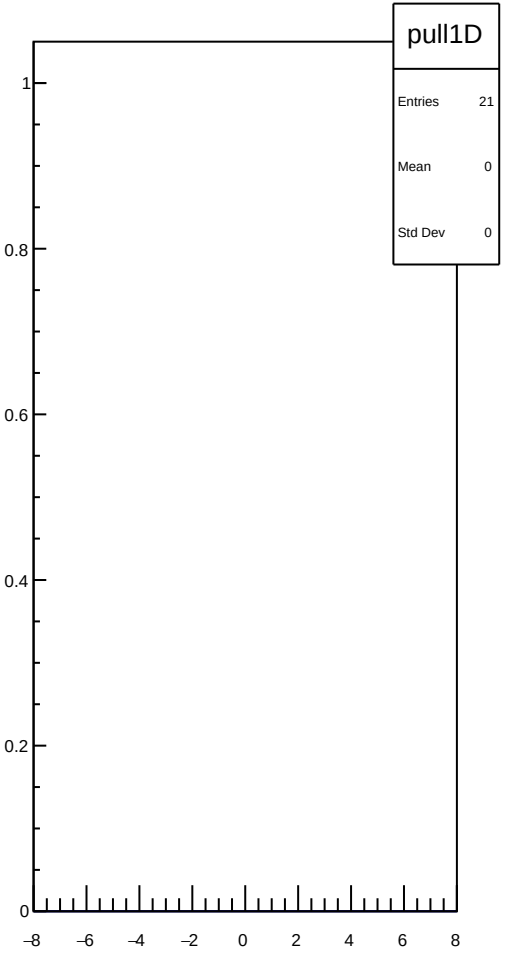

pull
Entries 21
Mean −9.9
Std Dev 19.3
4
2
0
−2
−4

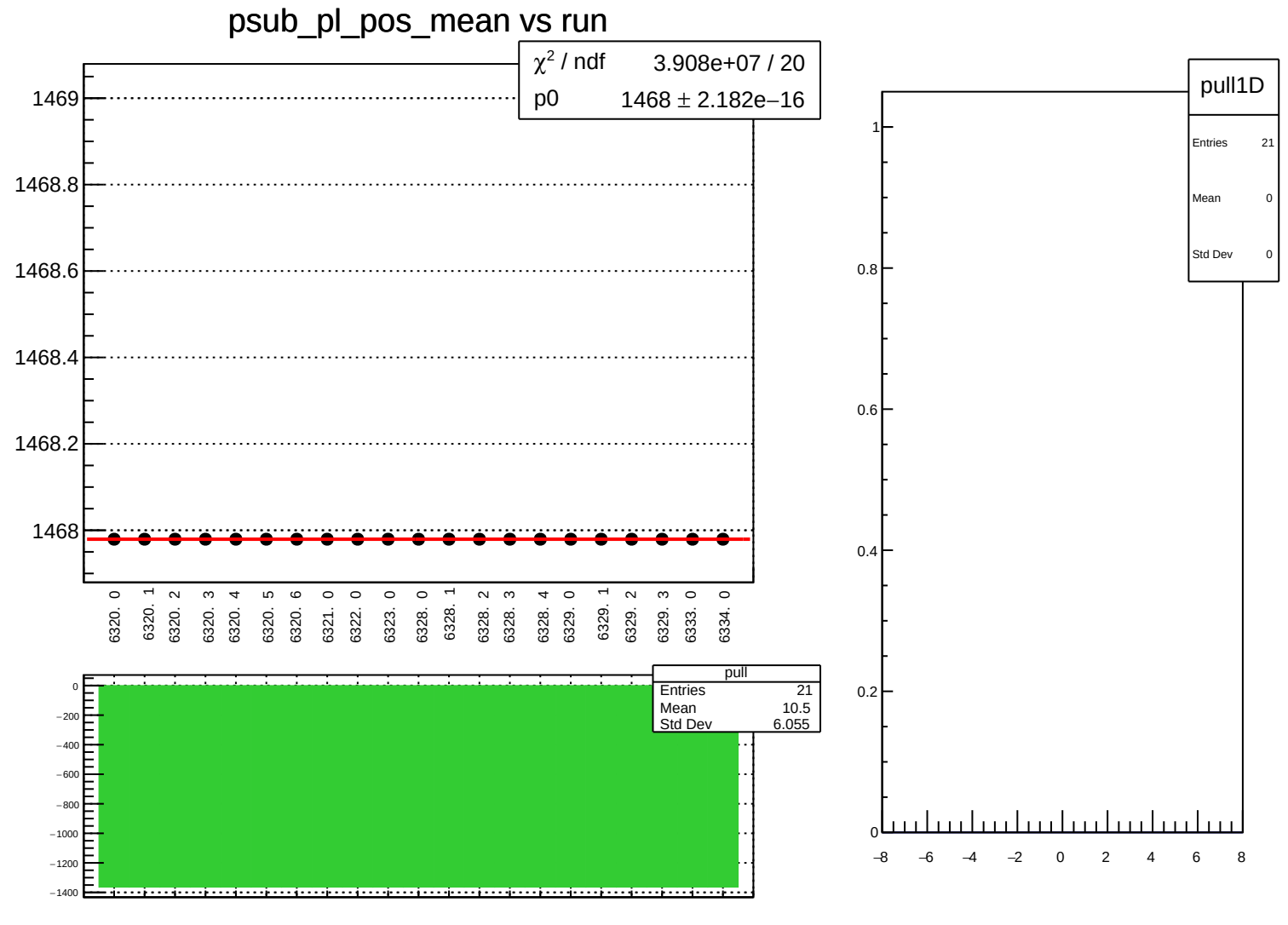

pull1D
Entries 21
Mean 0.6176
Std Dev 2.449
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

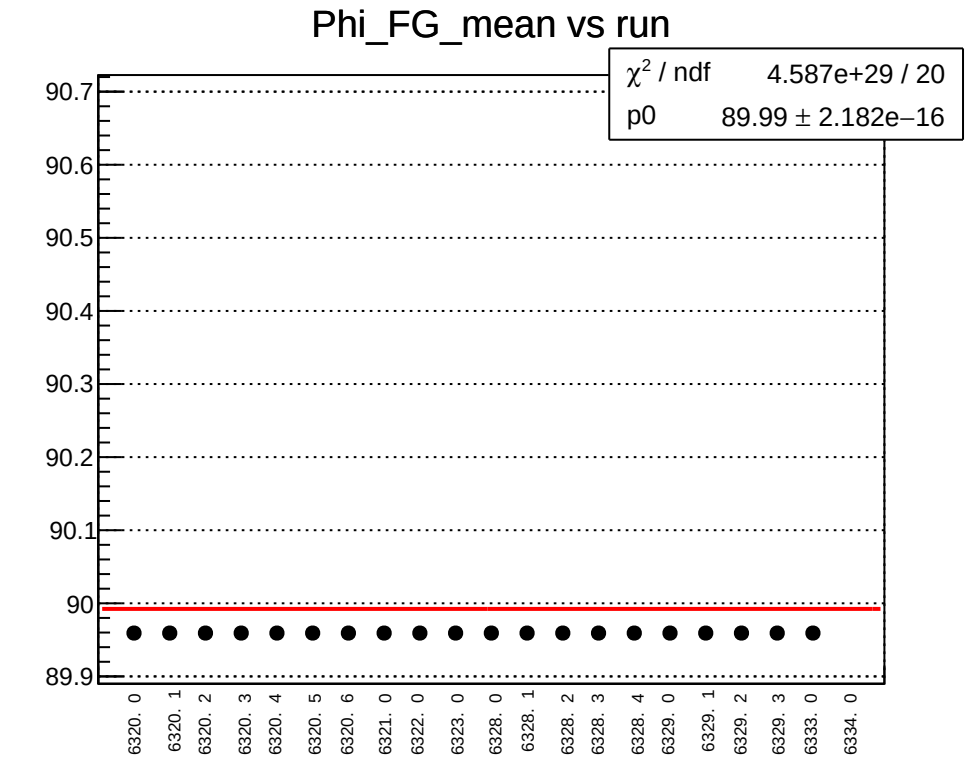

VWienAngle_mean vs run
χ² / ndf 3.817e+04 / 20
p0 88 ± 2.182e−16
89
88.8
88.6
88.4
88.2
88
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−5
−10
−15
−20
−25
−30
−35
−40

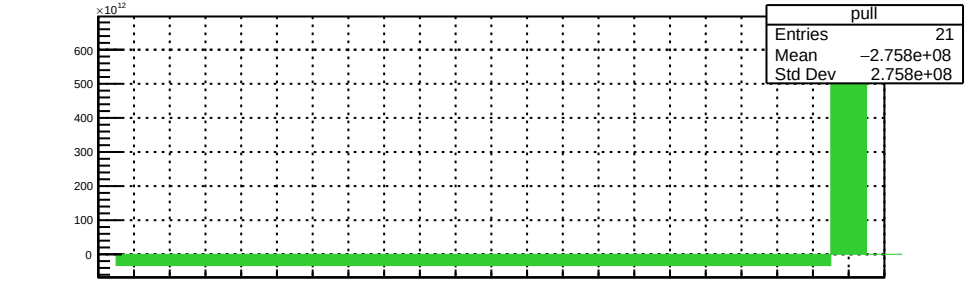

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

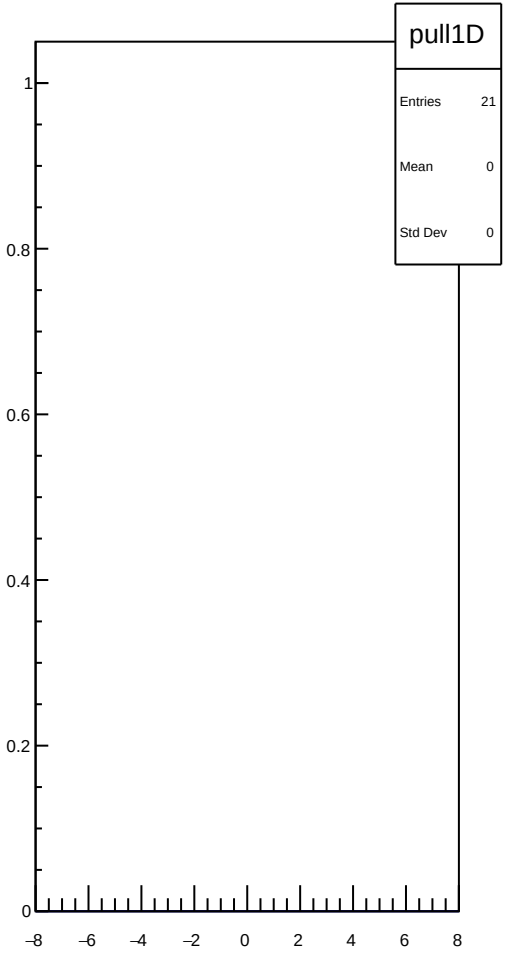

HWienAngle_mean vs run
χ² / ndf 2.147e+04 / 20
p0 −29.64 ± 2.182e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
30
25
20
15
10
5
0

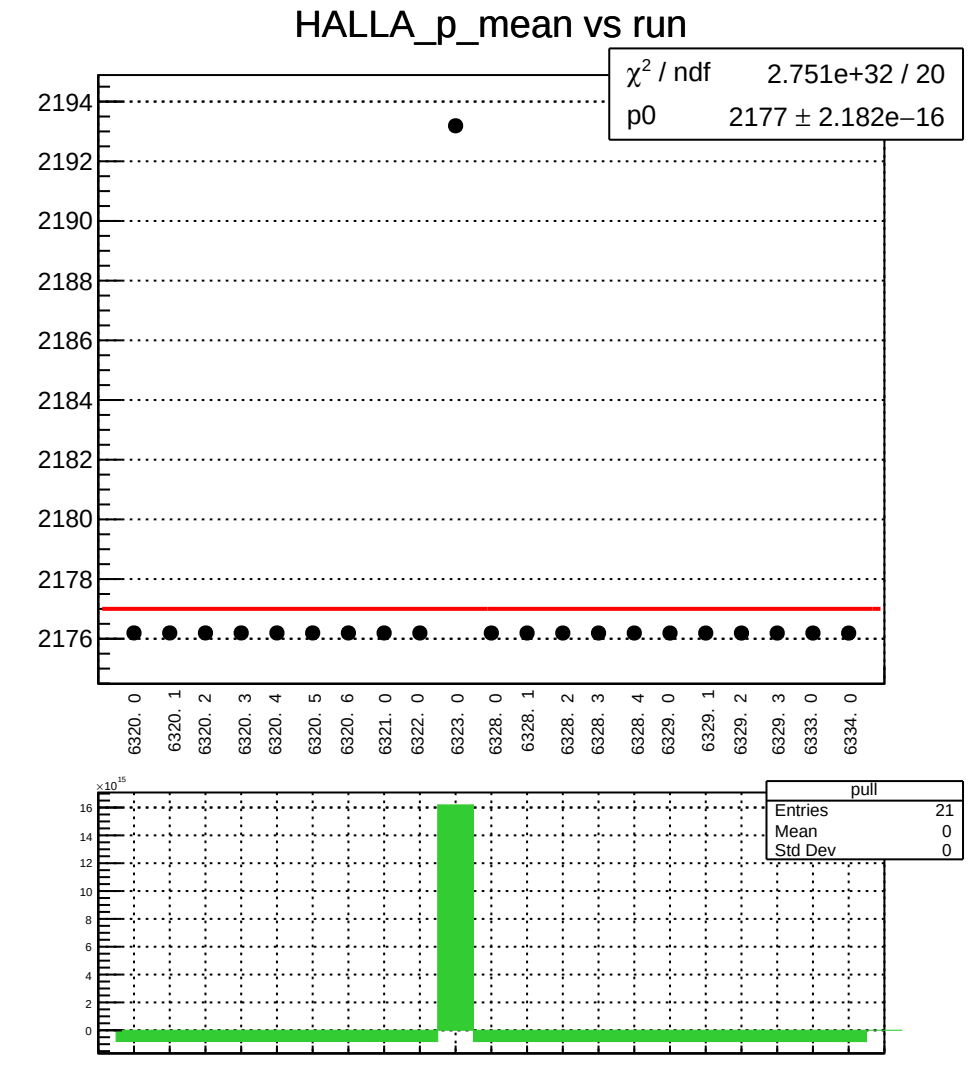

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

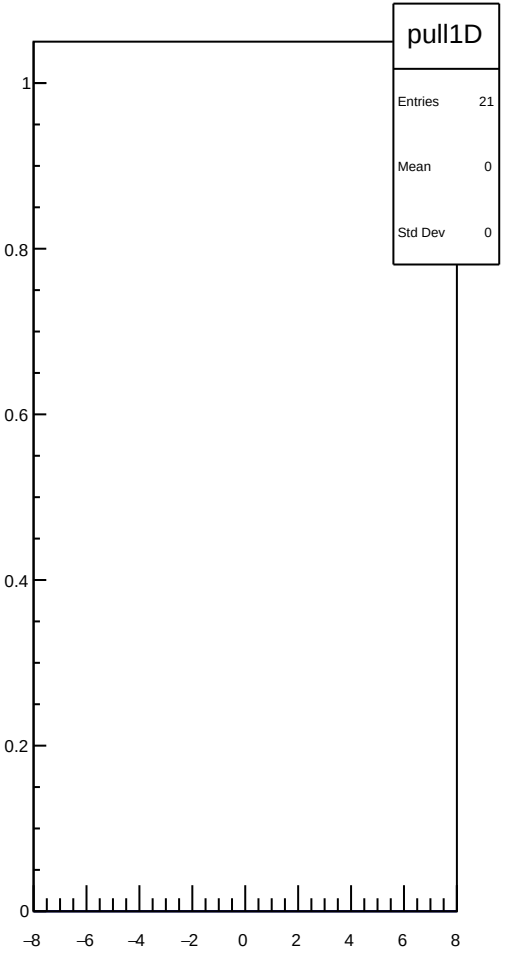

psub_pl_pos_mean vs run
χ² / ndf 3.908e+07 / 20
p0 1468 ± 2.182e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

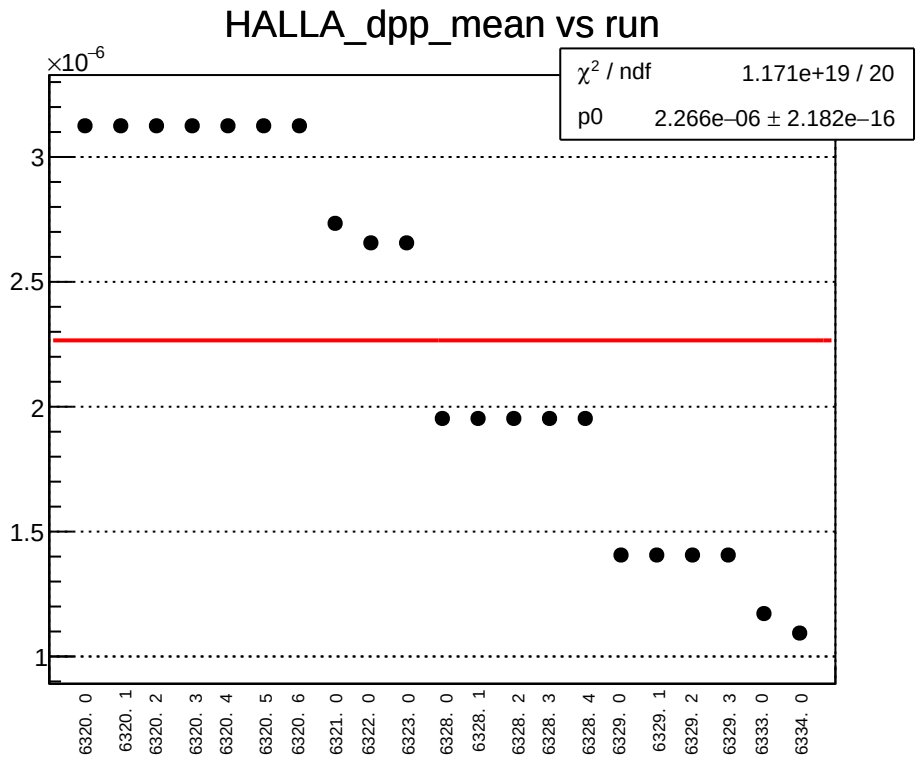

Phi_FG_mean vs run
χ² / ndf 4.587e+29 / 20
p0 89.99 ± 2.182e−16
90.7
90.6
90.5
90.4
90.3
90.2
90.1
90
89.9
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

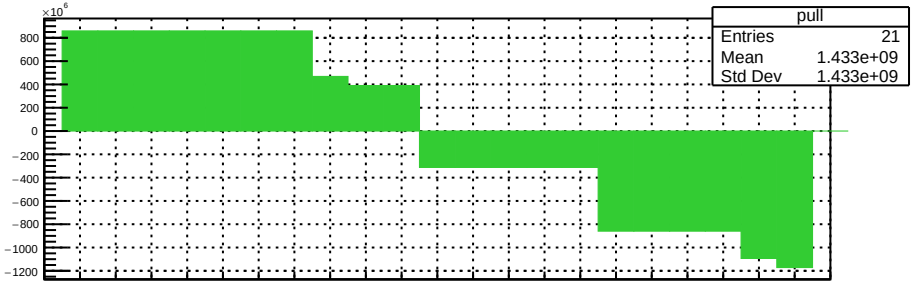

×10¹²
600
500
400
300
200
100
0
pull
Entries 21
Mean −2.758e+08
Std Dev 2.758e+08

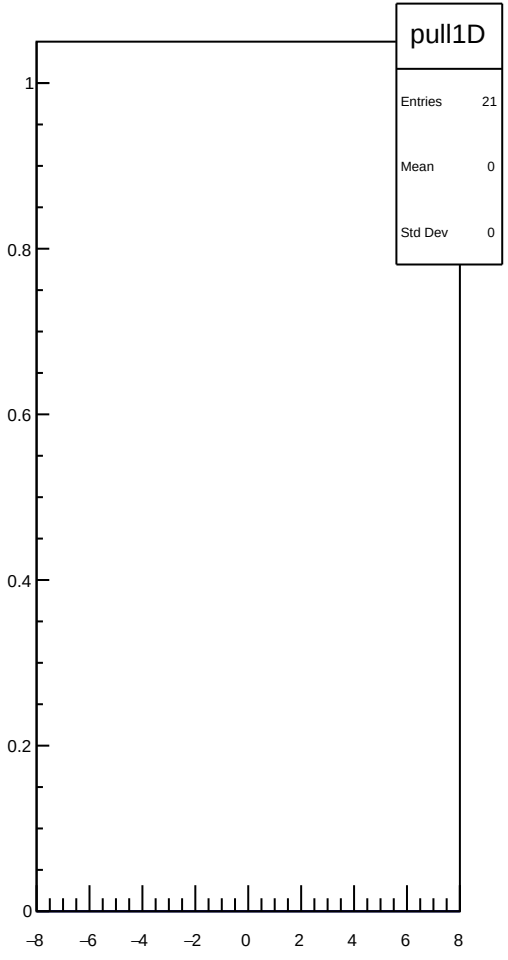

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

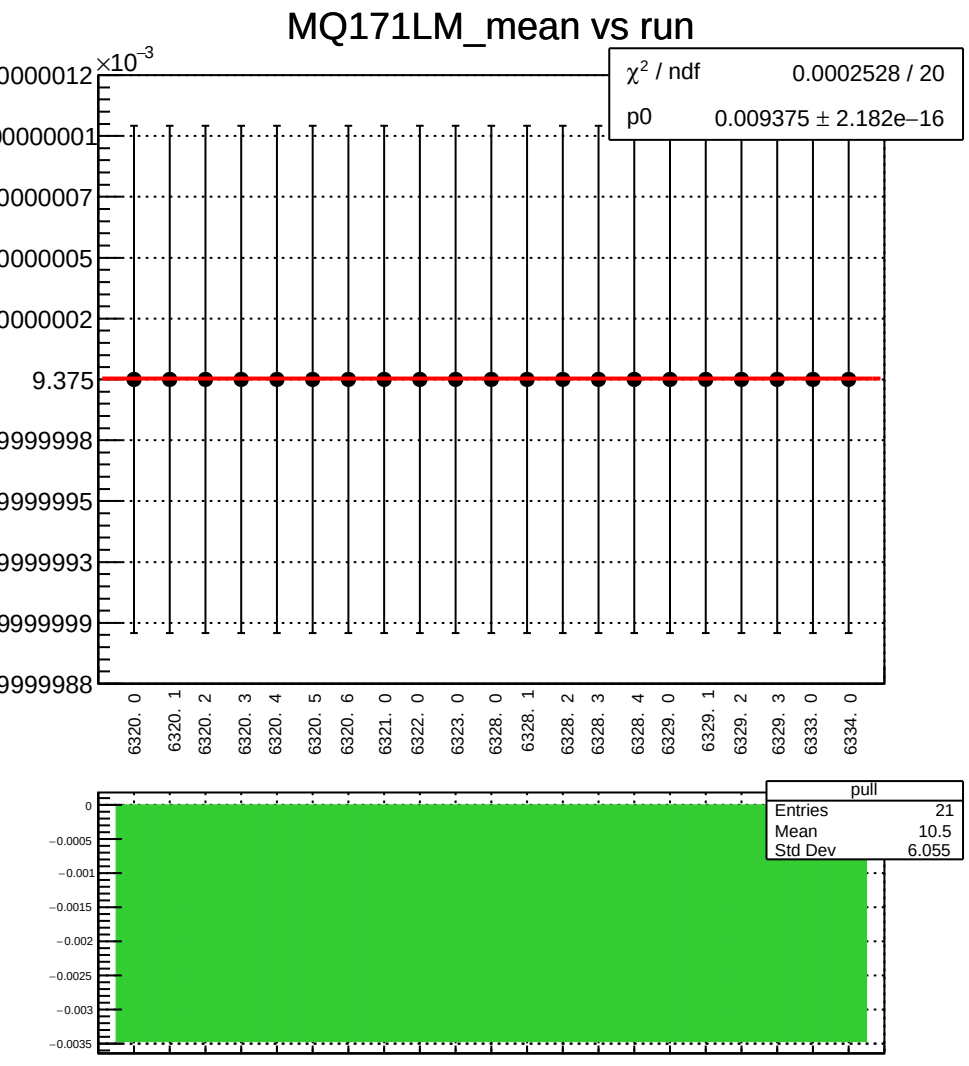

HALLA_p_mean vs run
χ² / ndf 2.751e+32 / 20
p0 2177 ± 2.182e−16
2194
2192
2190
2188
2186
2184
2182
2180
2178
2176
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 21
Mean 0
Std Dev 0

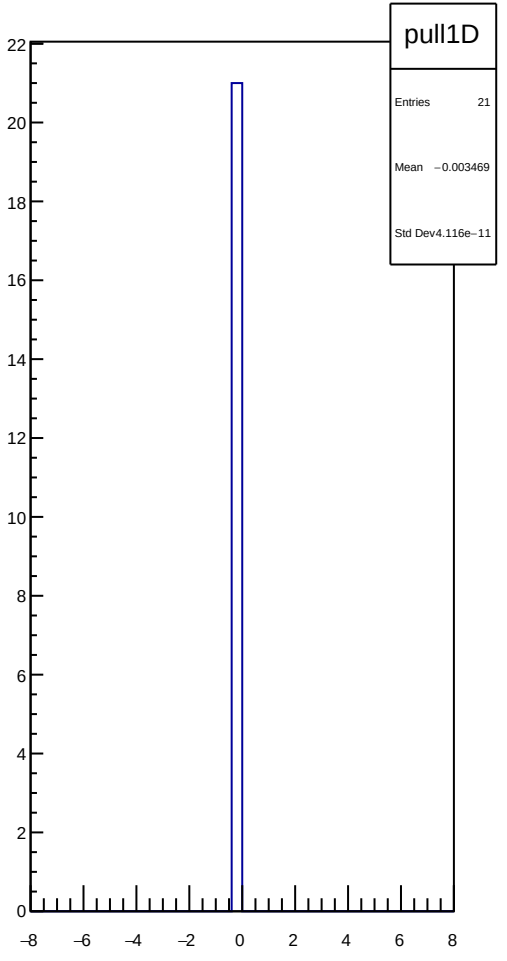

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

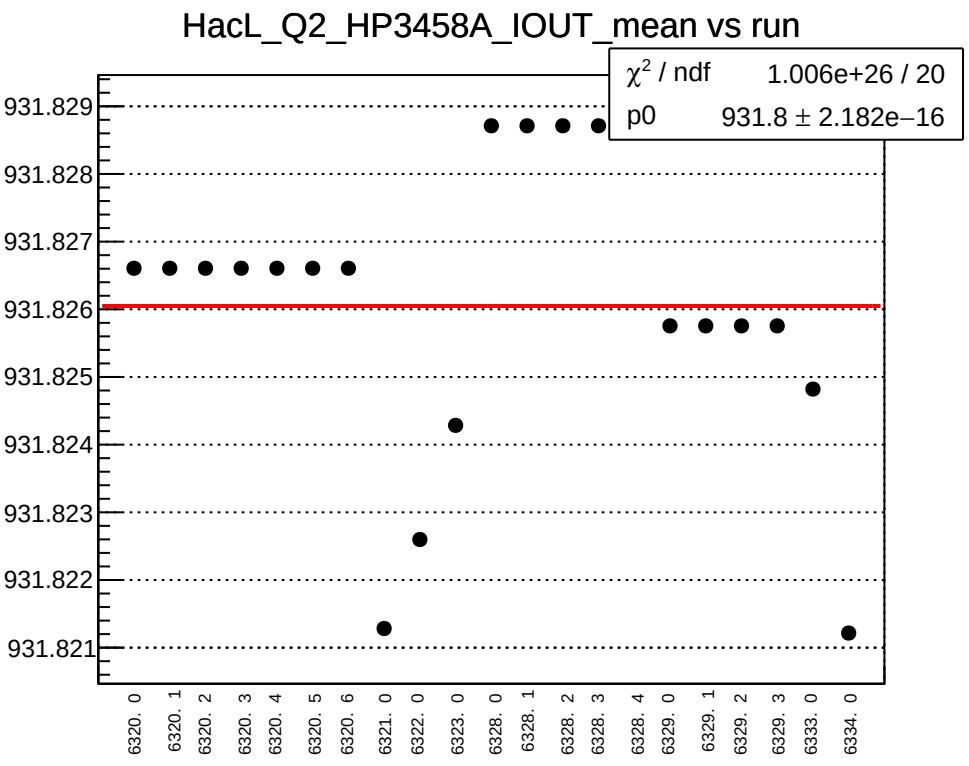

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 1.171e+19 / 20
p0 2.266e−06 ± 2.182e−16
3
2.5
2
1.5
1
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

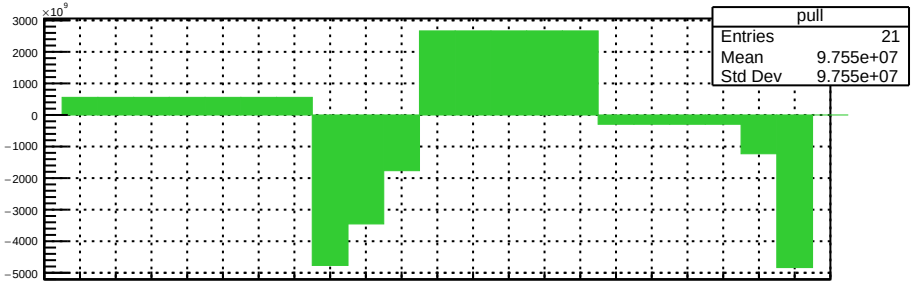

×10⁶
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 21
Mean 1.433e+09
Std Dev 1.433e+09

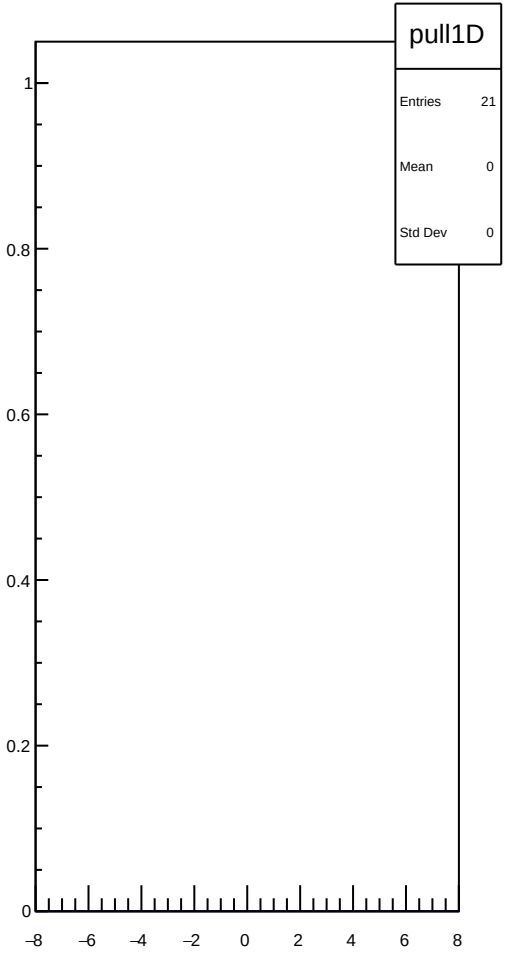

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

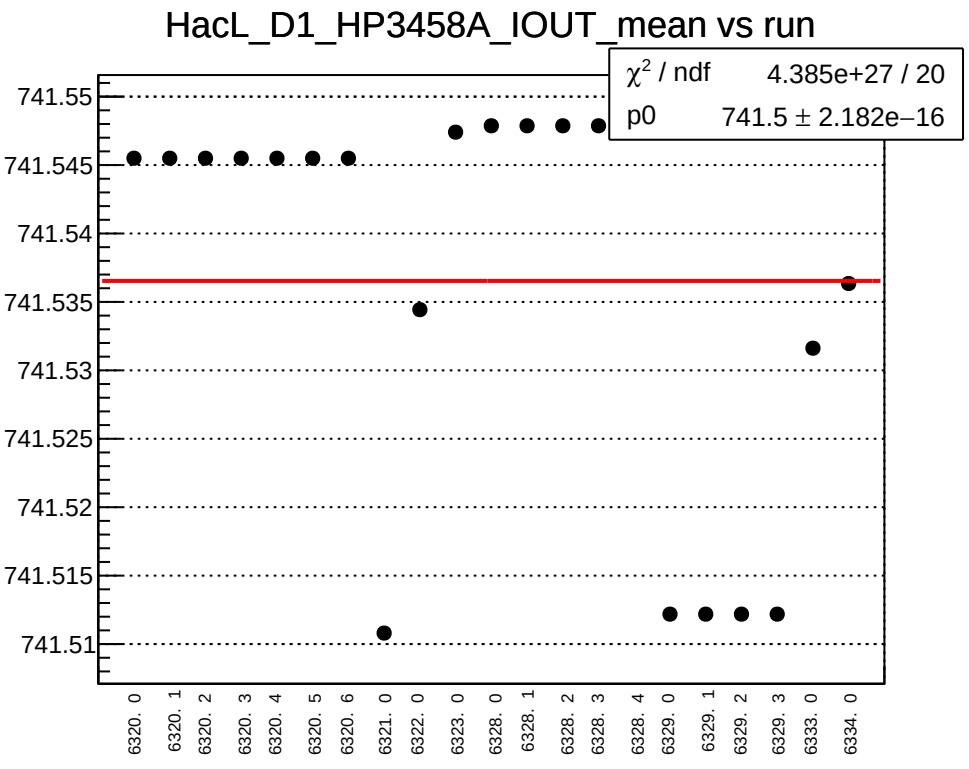

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0002528 / 20
p0 0.009375 ± 2.182e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035

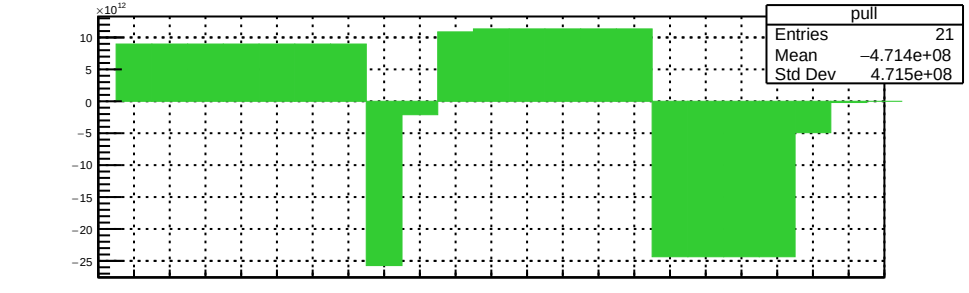

pull1D
Entries 21
Mean −0.003469
Std Dev4.116e−11
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

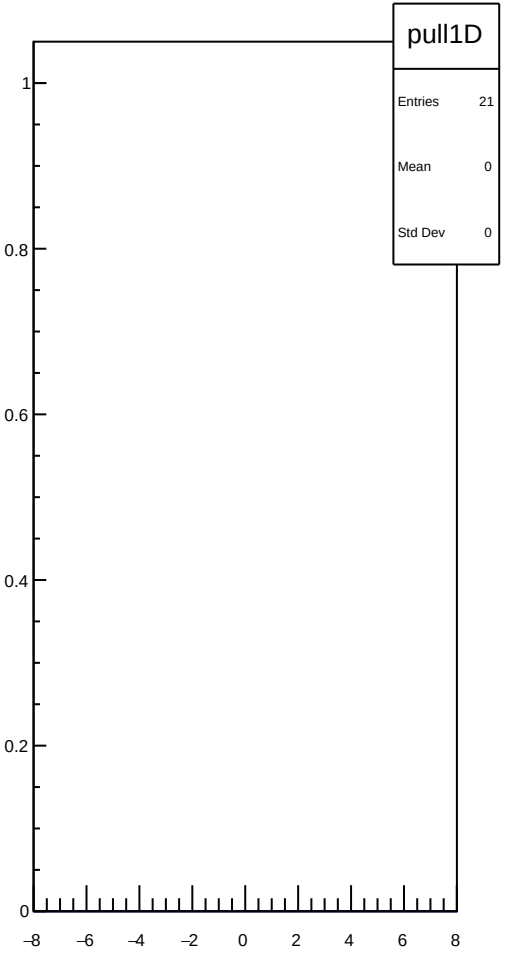

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.006e+26 / 20
p0 931.8 ± 2.182e−16
931.829
931.828
931.827
931.826
931.825
931.824
931.823
931.822
931.821
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

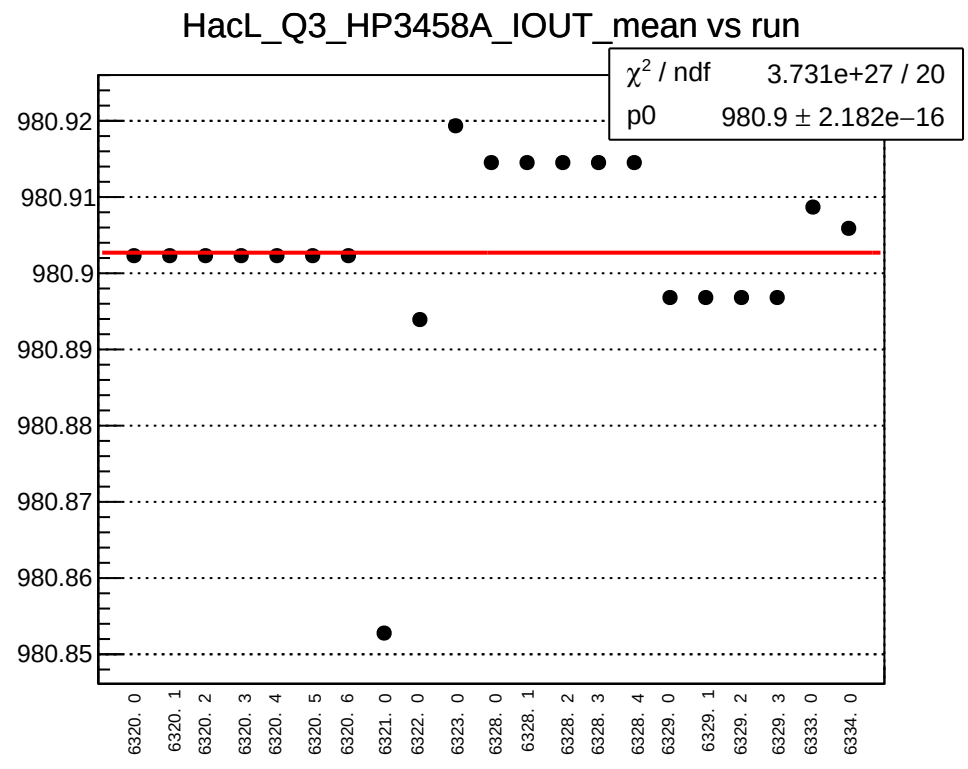

×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 21
Mean 9.755e+07
Std Dev 9.755e+07

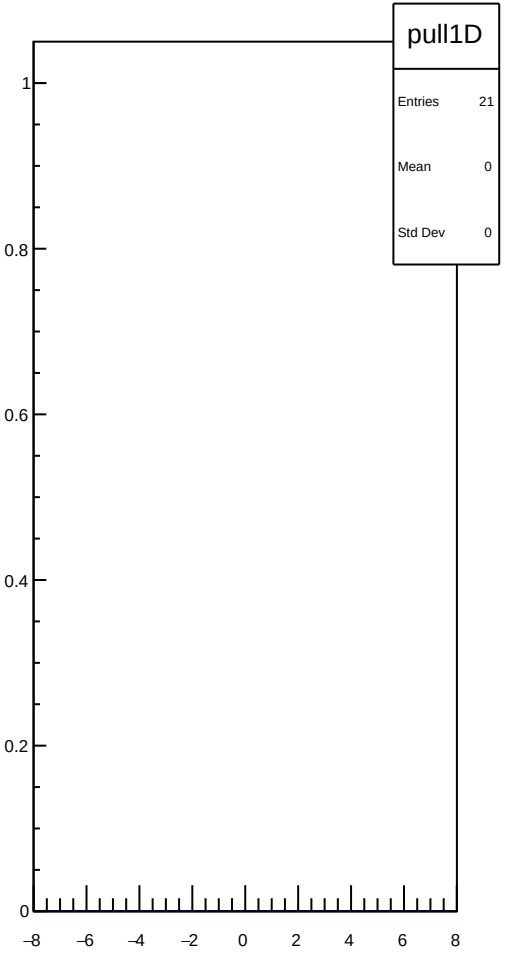

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

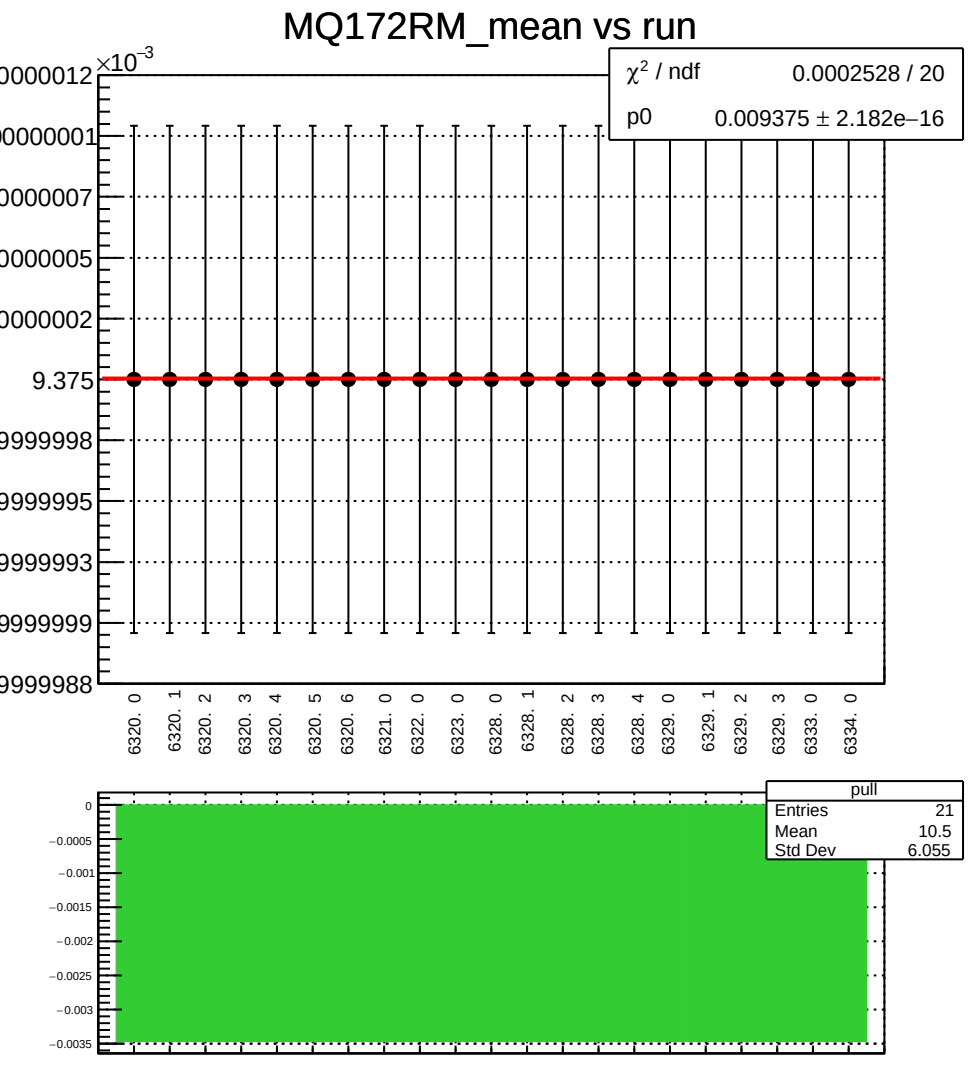

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.385e+27 / 20
p0 741.5 ± 2.182e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

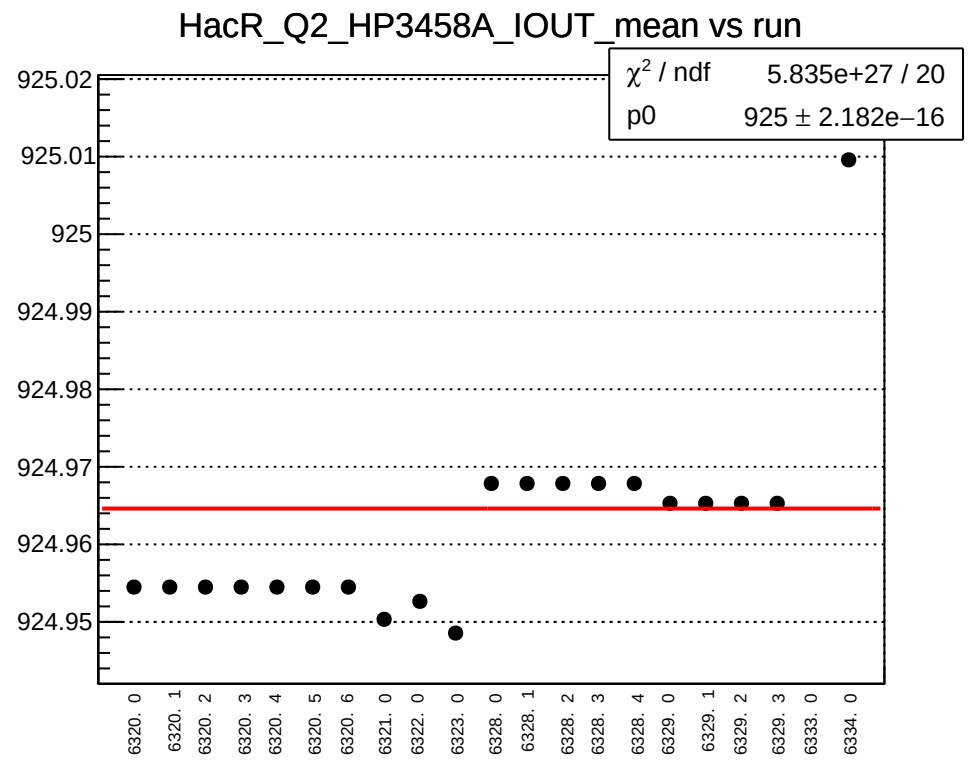

×10¹²
10
5
0
−5
−10
−15
−20
−25
pull
Entries 21
Mean −4.714e+08
Std Dev 4.715e+08

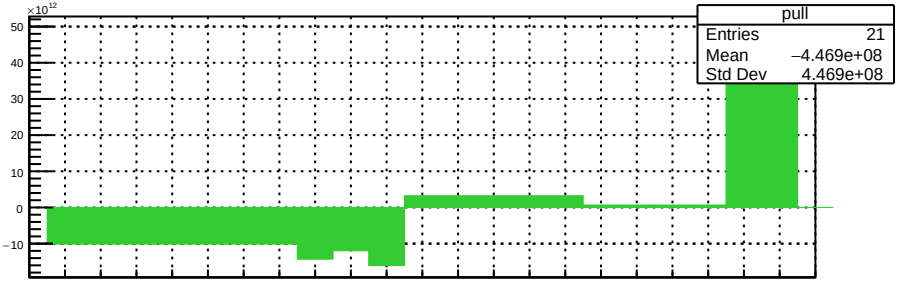

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

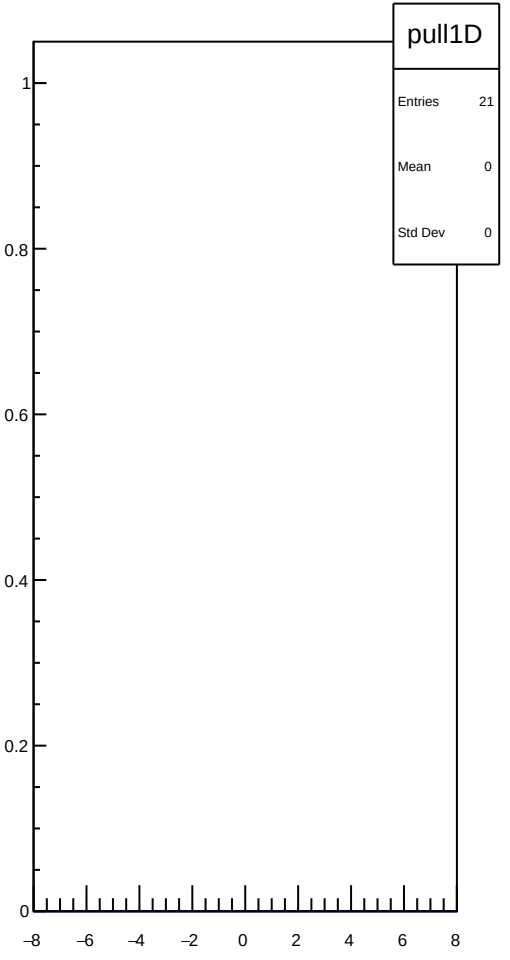

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.731e+27 / 20
p0 980.9 ± 2.182e−16
980.92
980.91
980.9
980.89
980.88
980.87
980.86
980.85
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10¹²
20
10
0
−10
−20
−30
−40
−50
pull
Entries 21
Mean −9.629e+08
Std Dev 9.629e+08

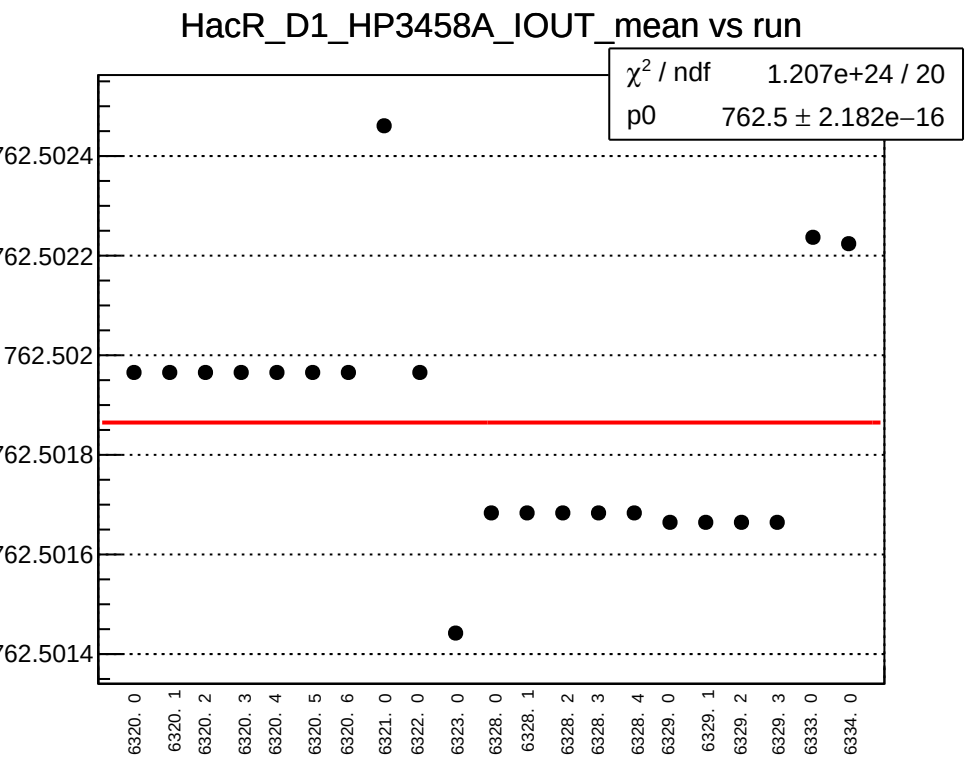

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

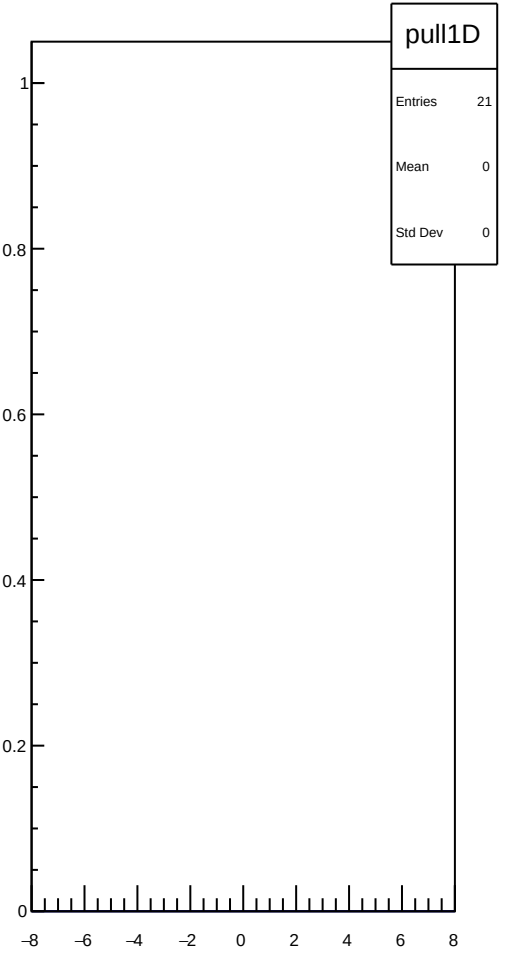

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0002528 / 20
p0 0.009375 ± 2.182e−16
9.375
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −0.003469
Std Dev4.116e−11

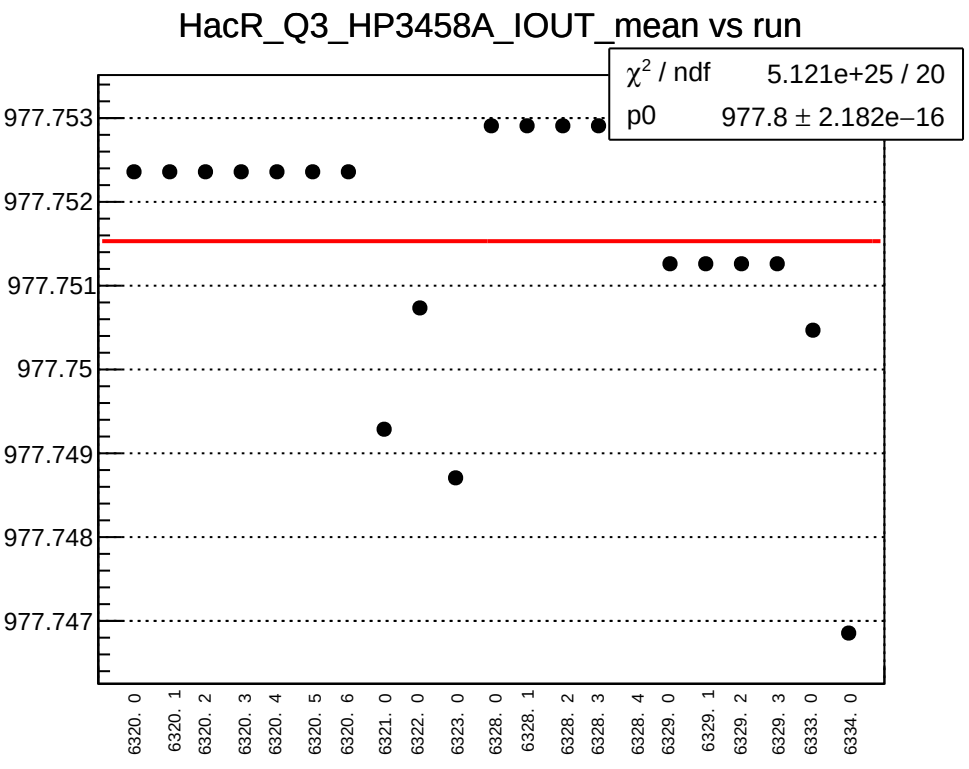

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.835e+27 / 20
p0 925 ± 2.182e−16
925.02
925.01
925
924.99
924.98
924.97
924.96
924.95
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0

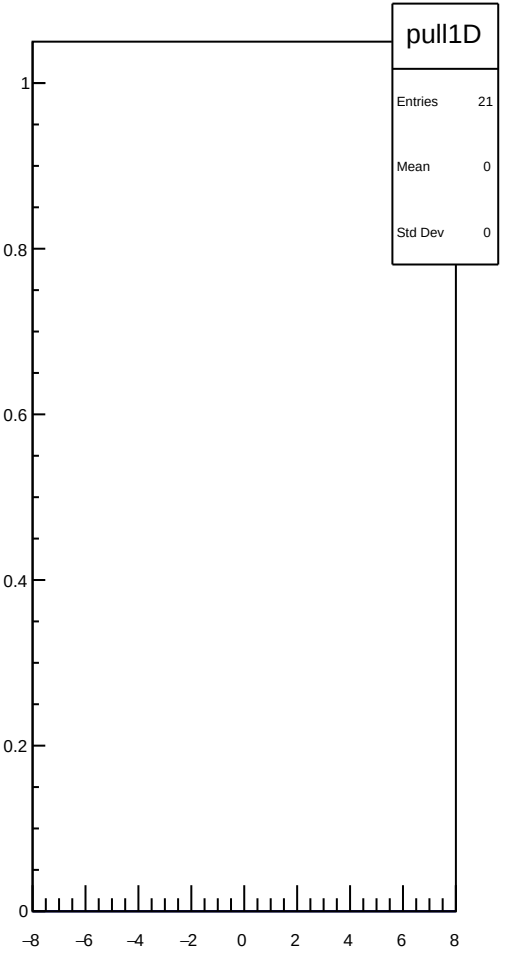

×10¹²
50
40
30
20
10
0
−10
pull
Entries 21
Mean −4.469e+08
Std Dev 4.469e+08

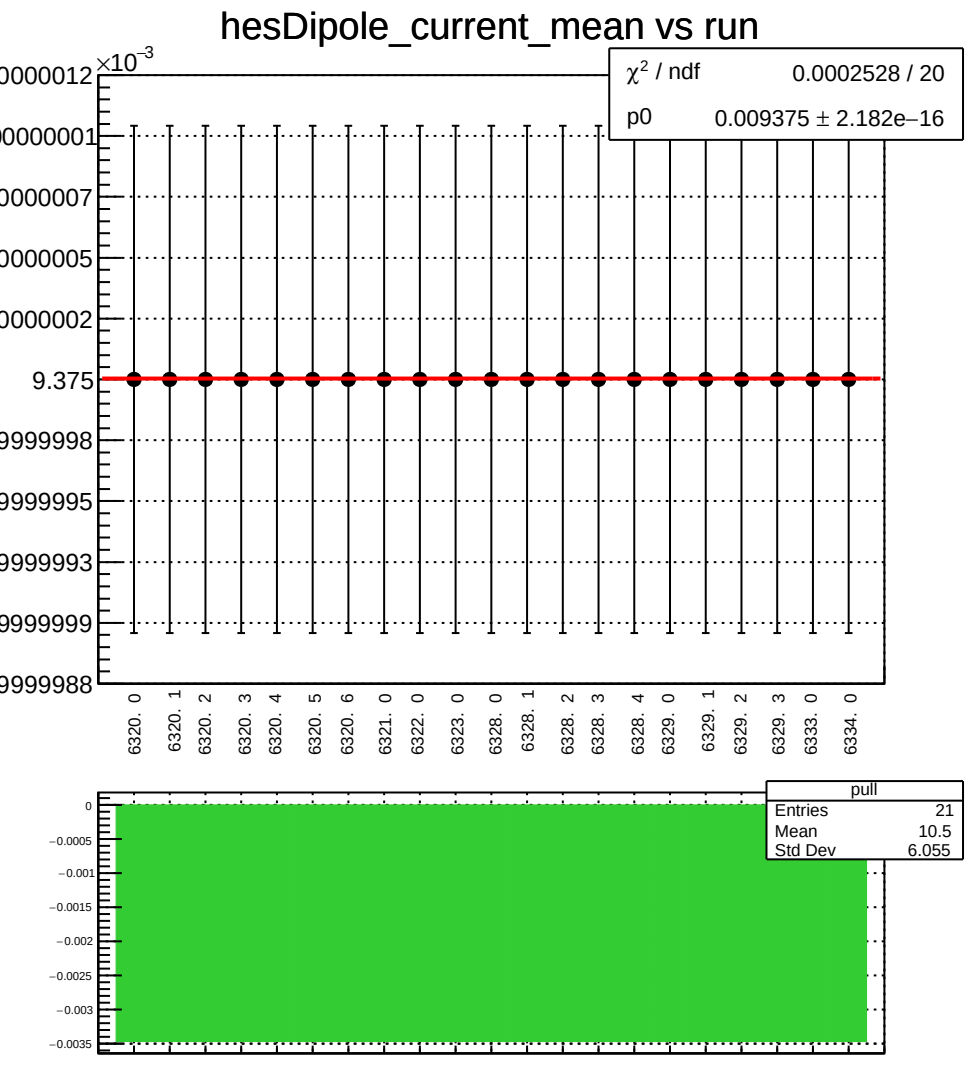

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

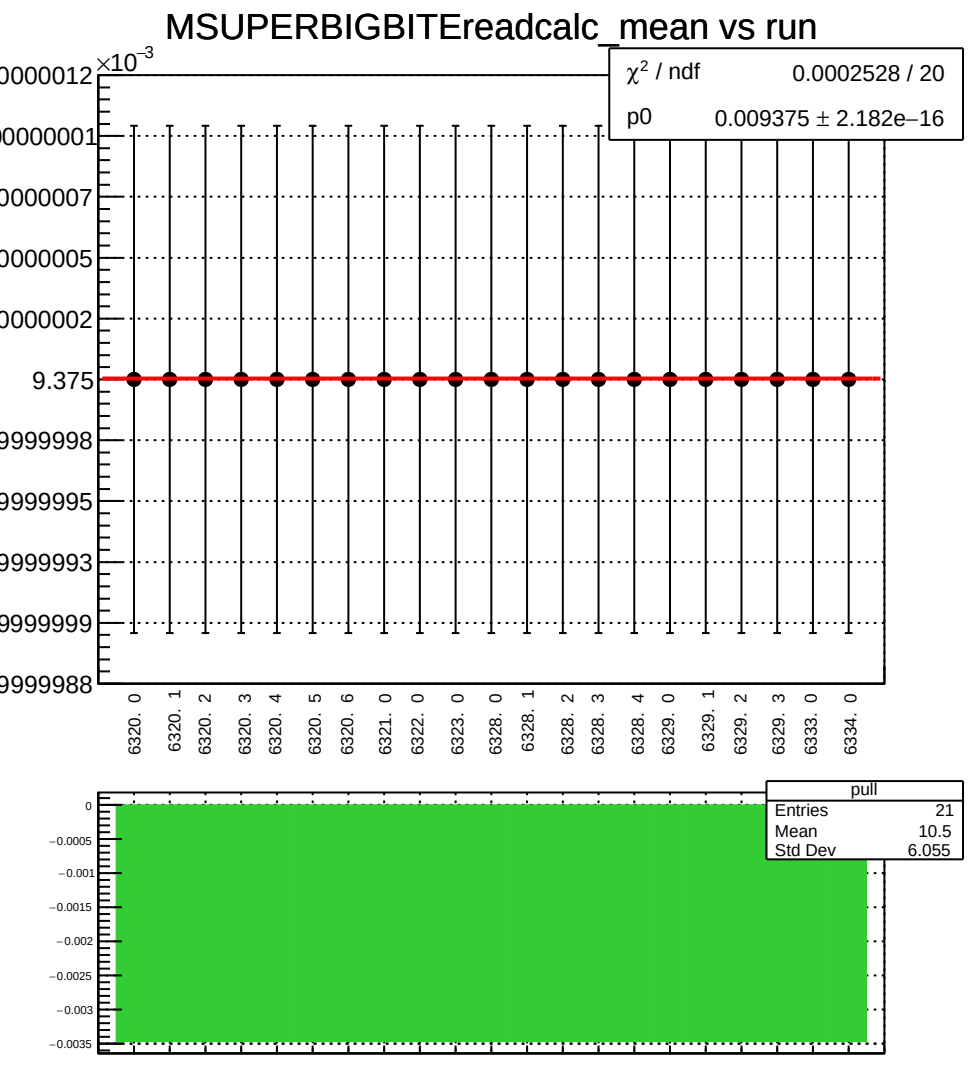

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.207e+24 / 20
p0 762.5 ± 2.182e−16
762.5024
762.5022
762.502
762.5018
762.5016
762.5014
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁹
600
400
200
0
−200
−400
pull
Entries 21
Mean 1.004e+08
Std Dev 1.004e+08

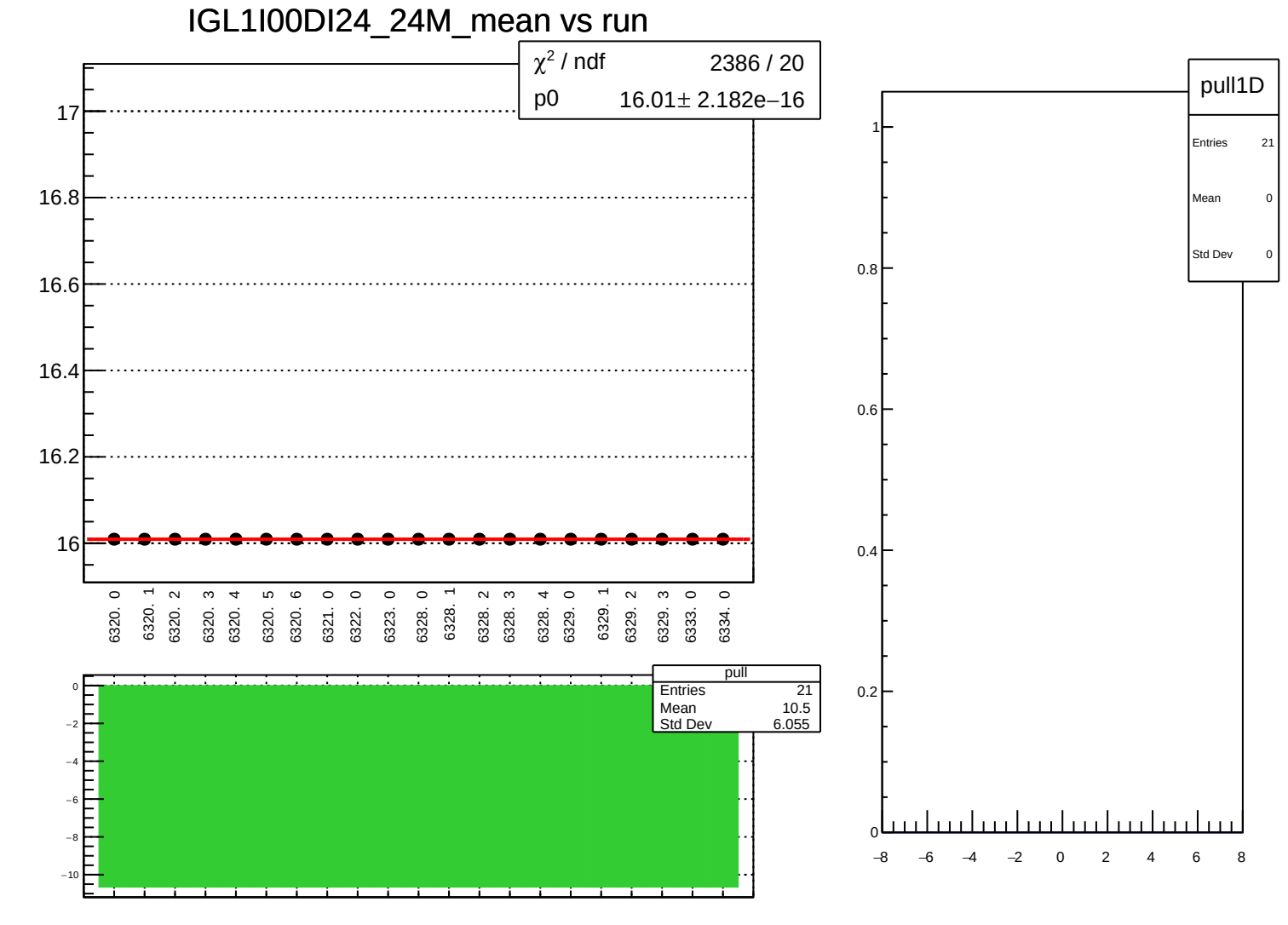

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

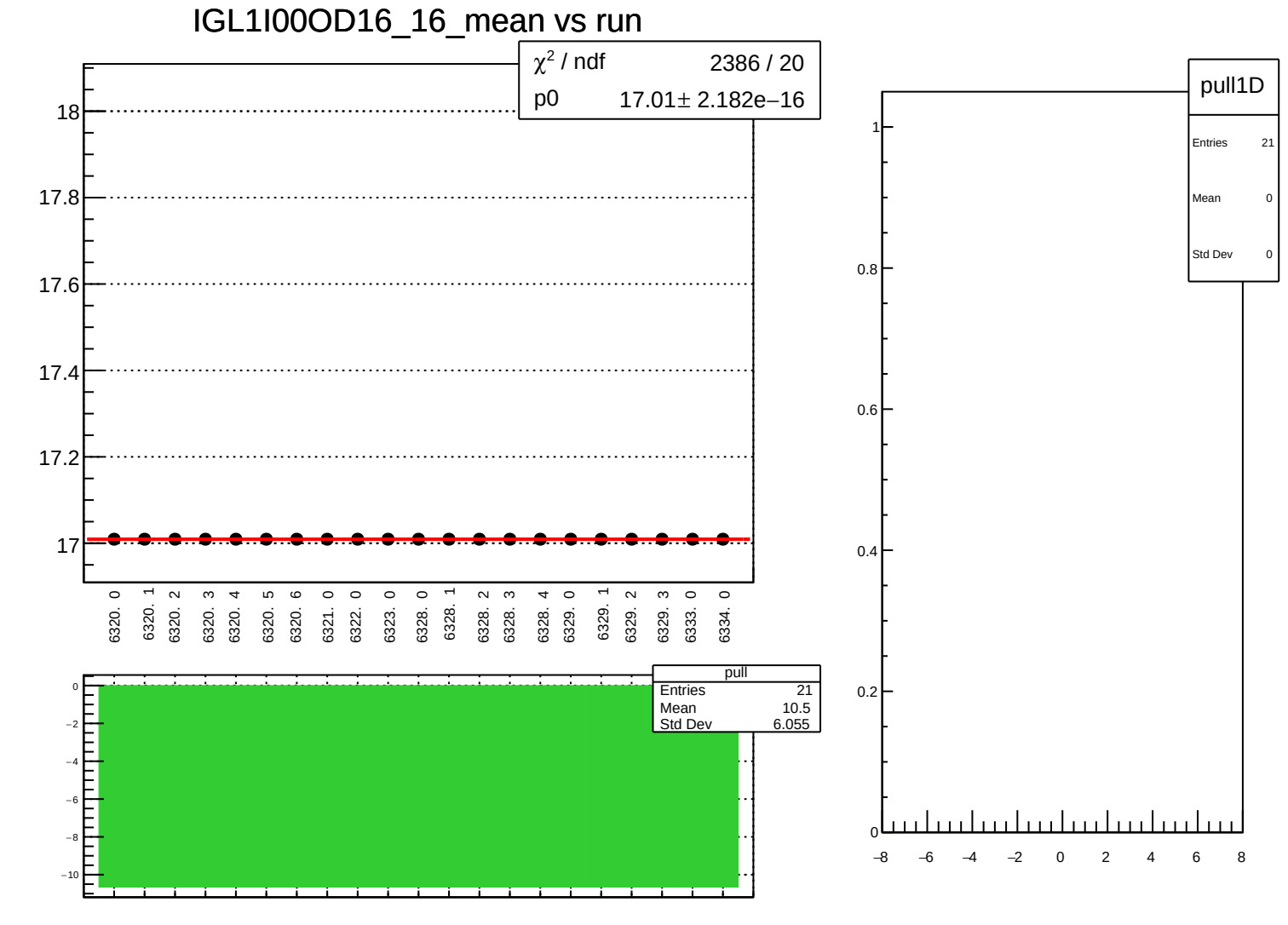

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.121e+25 / 20
p0 977.8 ± 2.182e−16
977.753
977.752
977.751
977.75
977.749
977.748
977.747
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
×10⁹
1000
0
−1000
−2000
−3000
−4000
pull
Entries 21
Mean −4.017e+08
Std Dev 4.017e+08

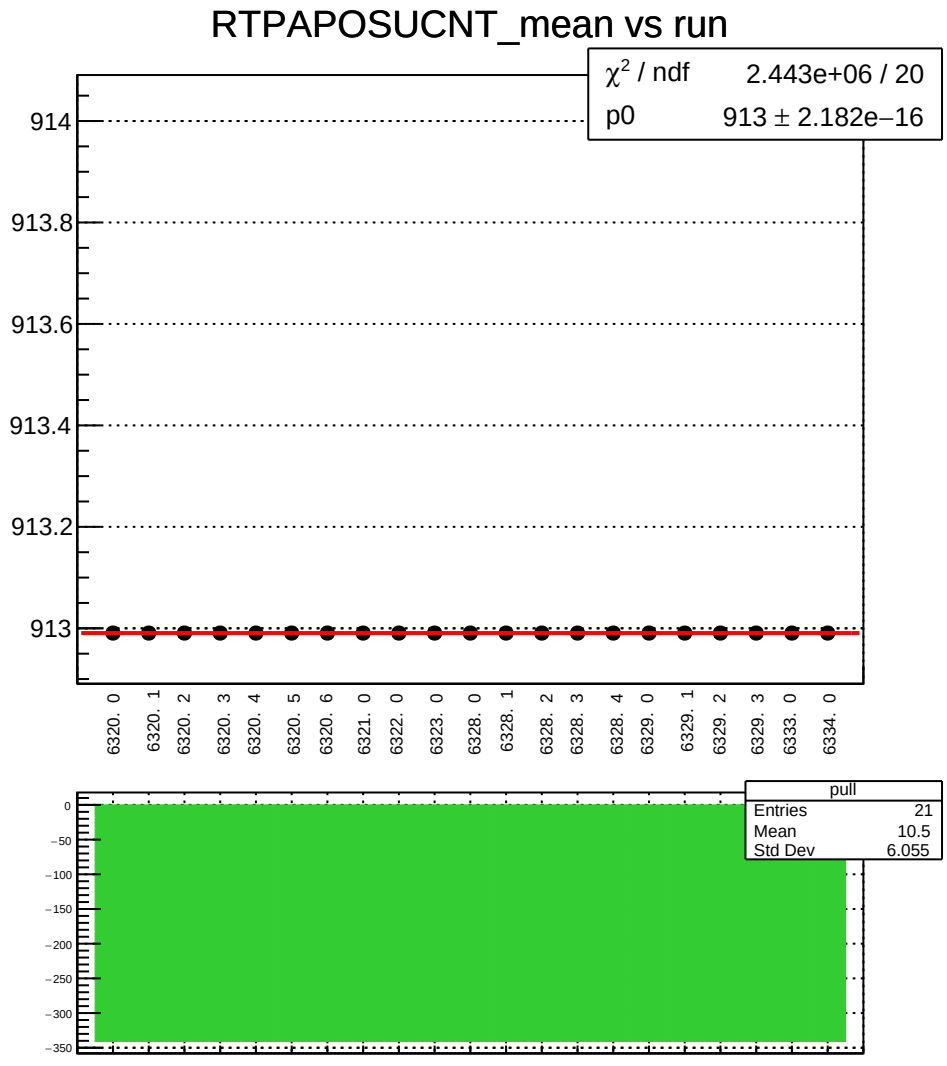

pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

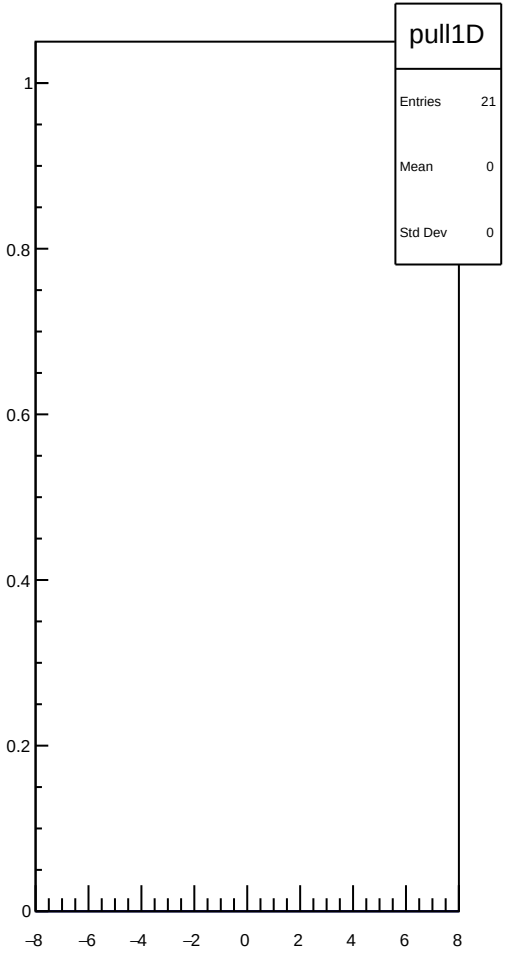

hesDipole_current_mean vs run
χ² / ndf 0.0002528 / 20
p0 0.009375 ± 2.182e−16
×10⁻³
9.375
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
pull1D
Entries 21
Mean −0.003469
Std Dev4.116e−11

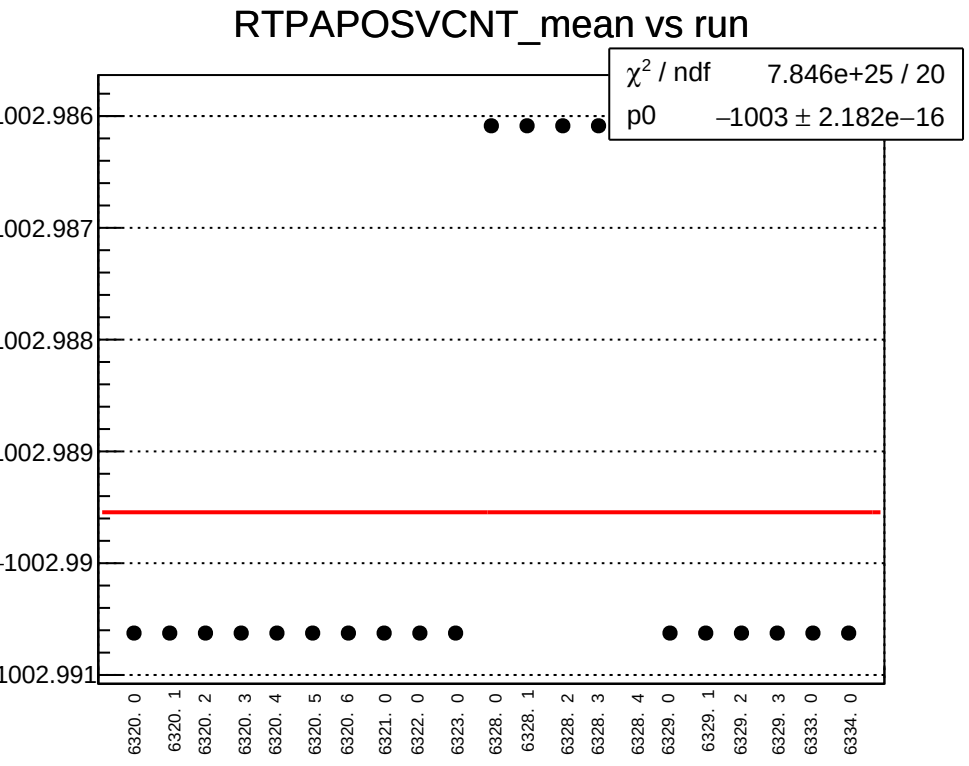

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0002528 / 20
p0 0.009375 ± 2.182e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035
pull1D
Entries 21
Mean −0.003469
Std Dev4.116e−11
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

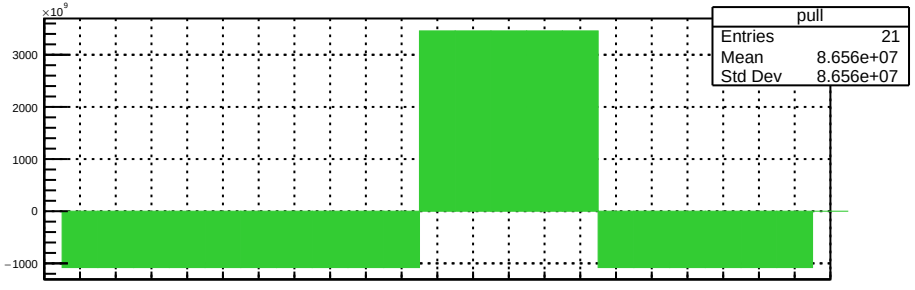

IGL1I00DI24_24M_mean vs run
χ² / ndf 2386 / 20
p0 16.01± 2.182e−16
17
16.8
16.6
16.4
16.2
16
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−2
−4
−6
−8
−10
pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

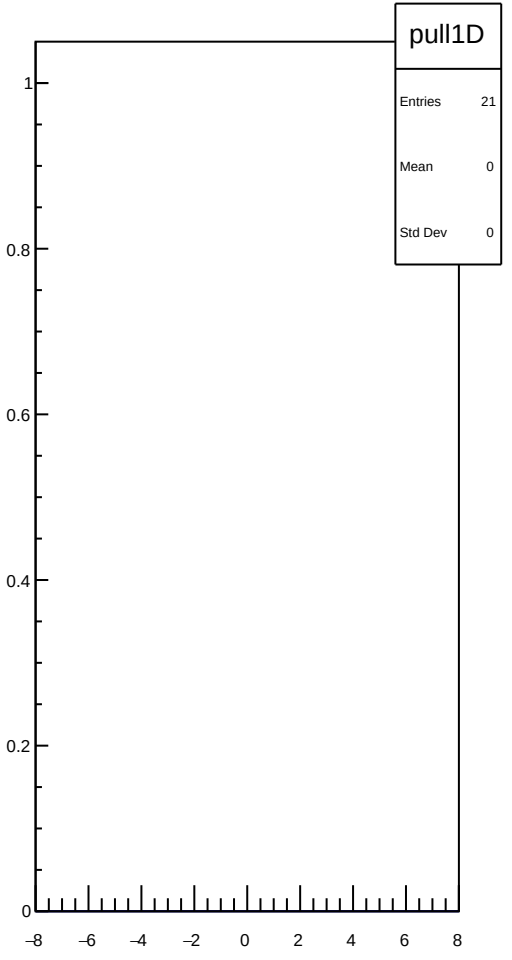

IGL1I00OD16_16_mean vs run
χ² / ndf 2386 / 20
p0 17.01± 2.182e−16
18
17.8
17.6
17.4
17.2
17
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−2
−4
−6
−8
−10
pull1D
Entries 21
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 2.443e+06 / 20
p0 913 ± 2.182e−16
914
913.8
913.6
913.4
913.2
913
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−50
−100
−150
−200
−250
−300
−350


pull1D
Entries 21
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 7.846e+25 / 20
p0 −1003 ± 2.182e−16
1002.986
1002.987
1002.988
1002.989
1002.99
1002.991
6320. 0
6320. 1
6320. 2
6320. 3
6320. 4
6320. 5
6320. 6
6321. 0
6322. 0
6323. 0
6328. 0
6328. 1
6328. 2
6328. 3
6328. 4
6329. 0
6329. 1
6329. 2
6329. 3
6333. 0
6334. 0


×10⁹
3000
2000
1000
0
−1000
pull
Entries 21
Mean 8.656e+07
Std Dev 8.656e+07


pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8