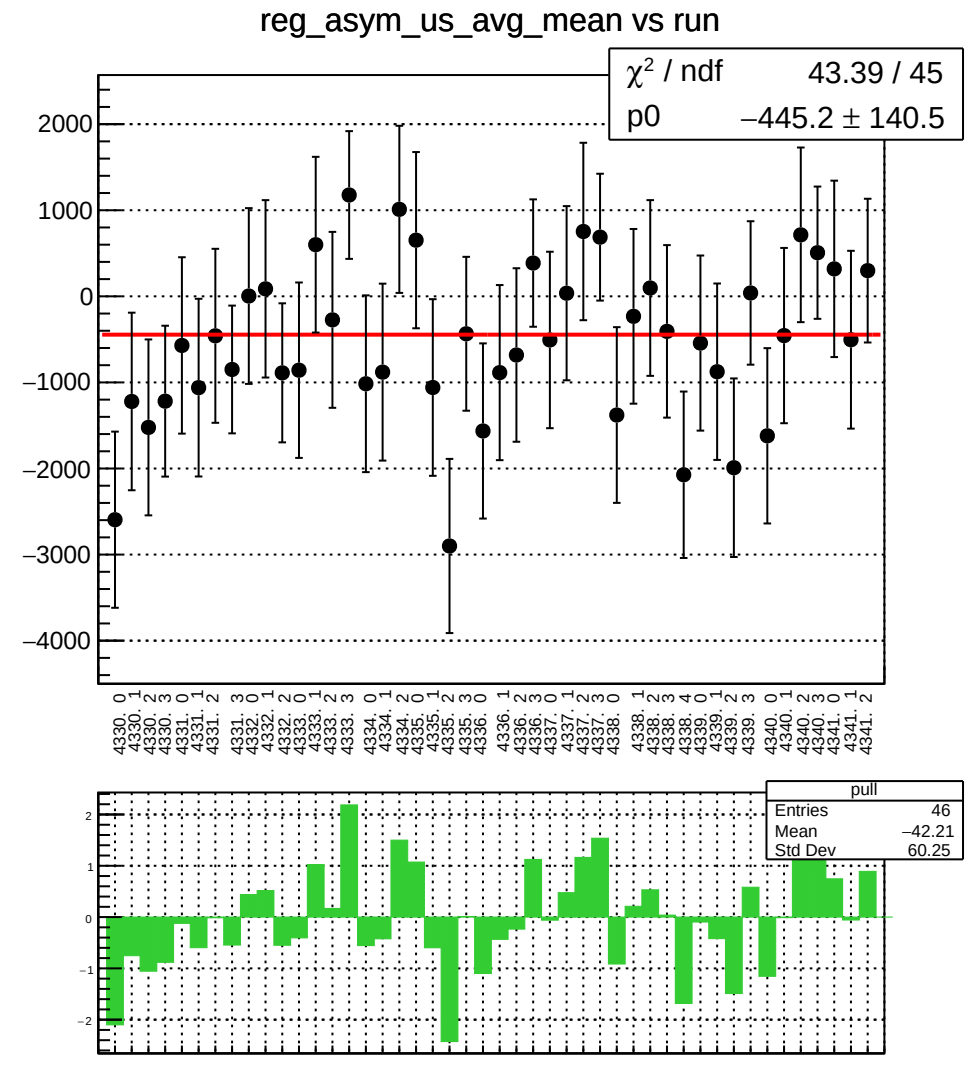
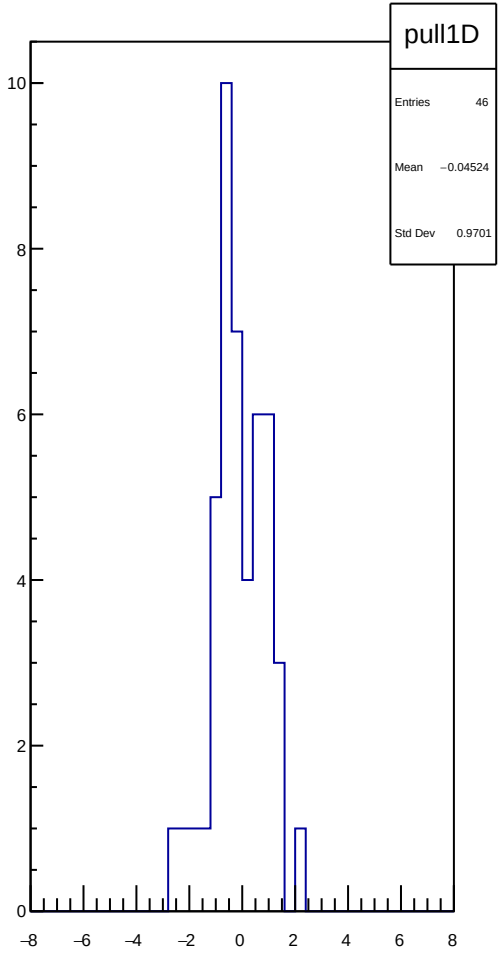
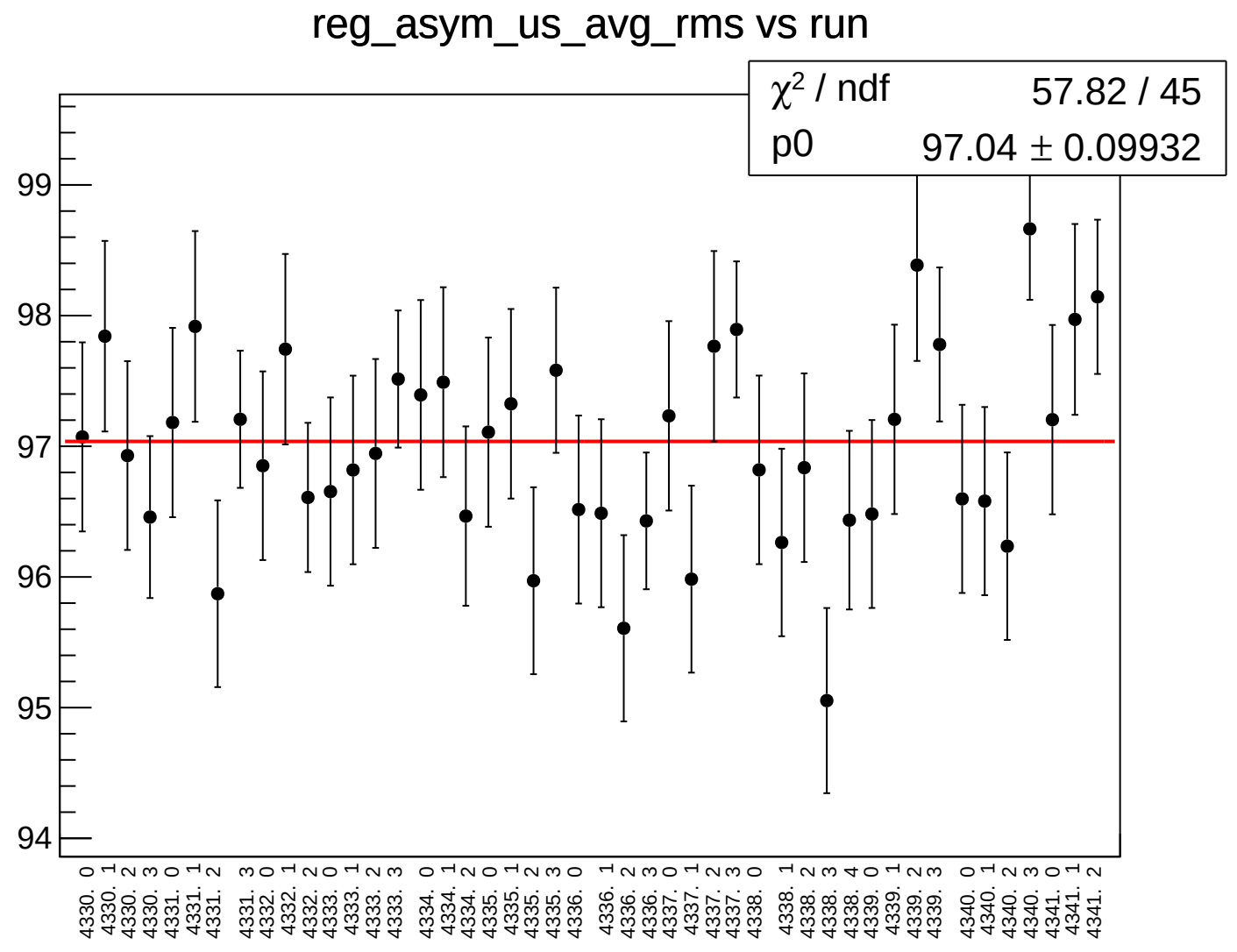
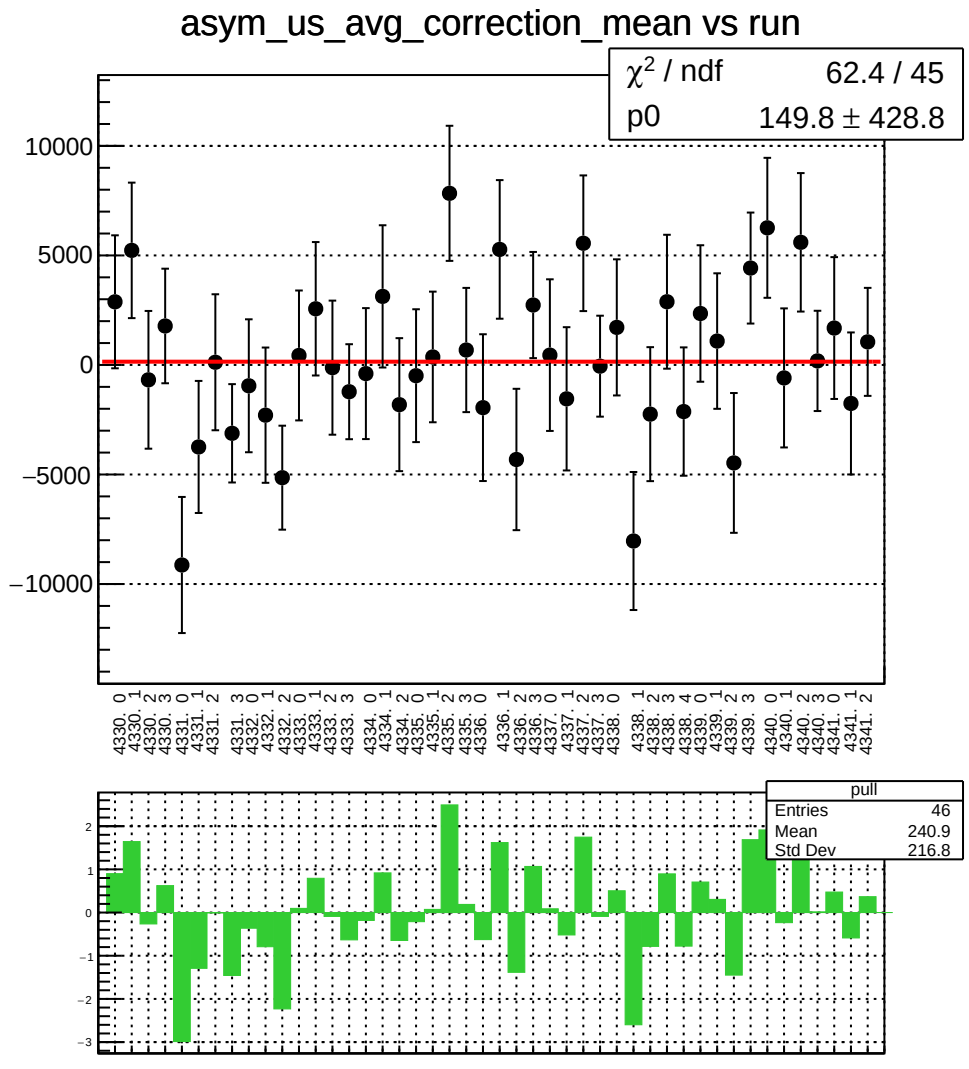
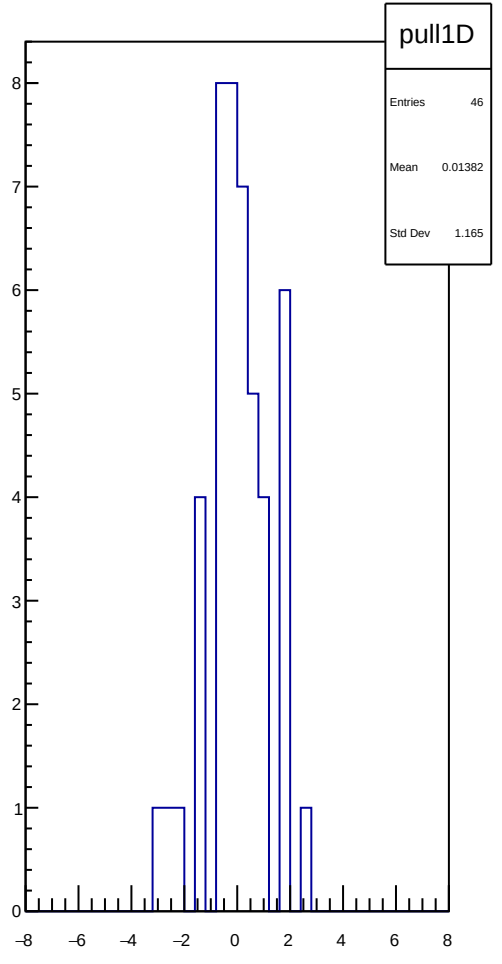
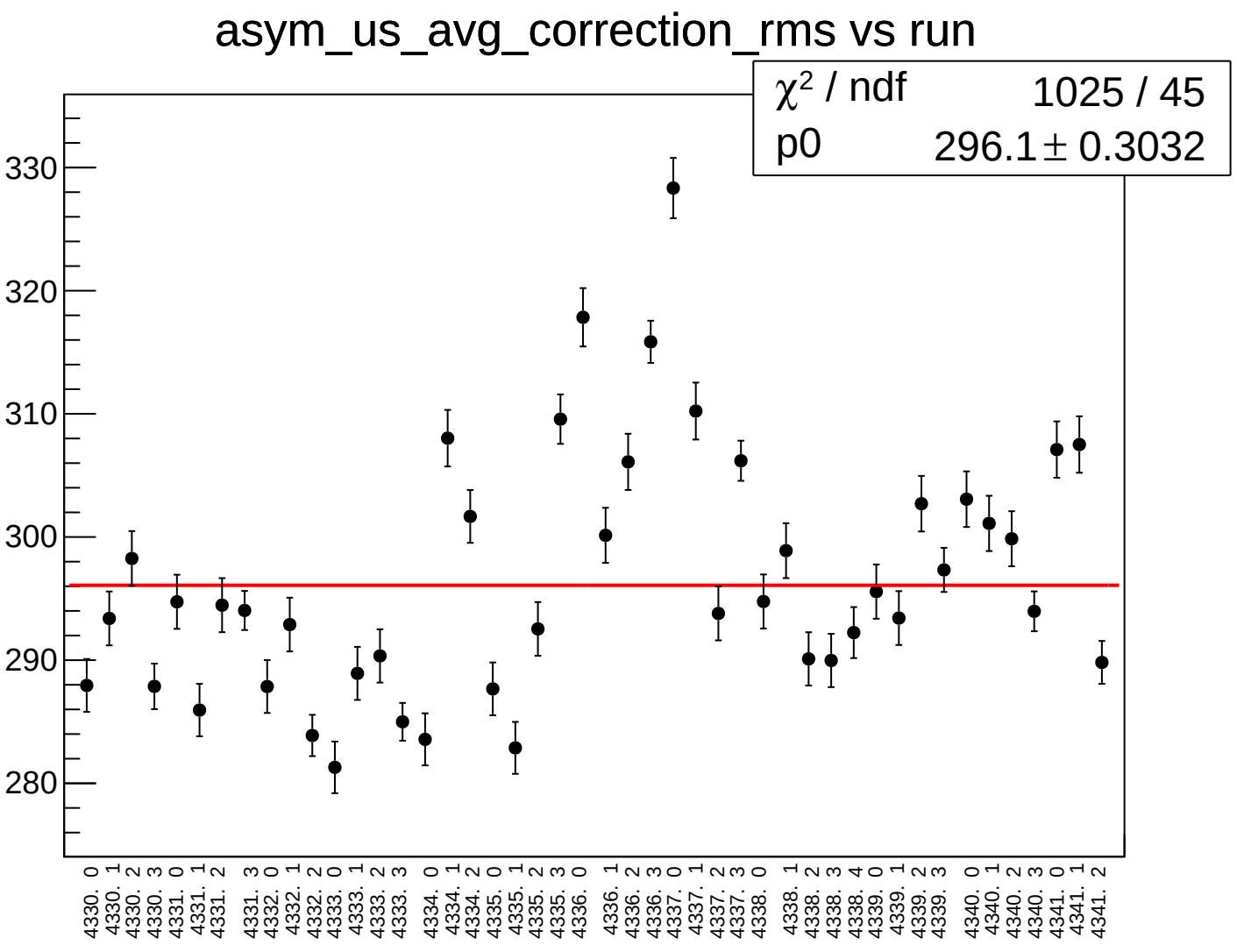

reg_asym_us_avg_mean vs run
χ² / ndf 43.39 / 45
p0 −445.2 ± 140.5
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −42.21
Std Dev 60.25
2
1
0
−1
−2

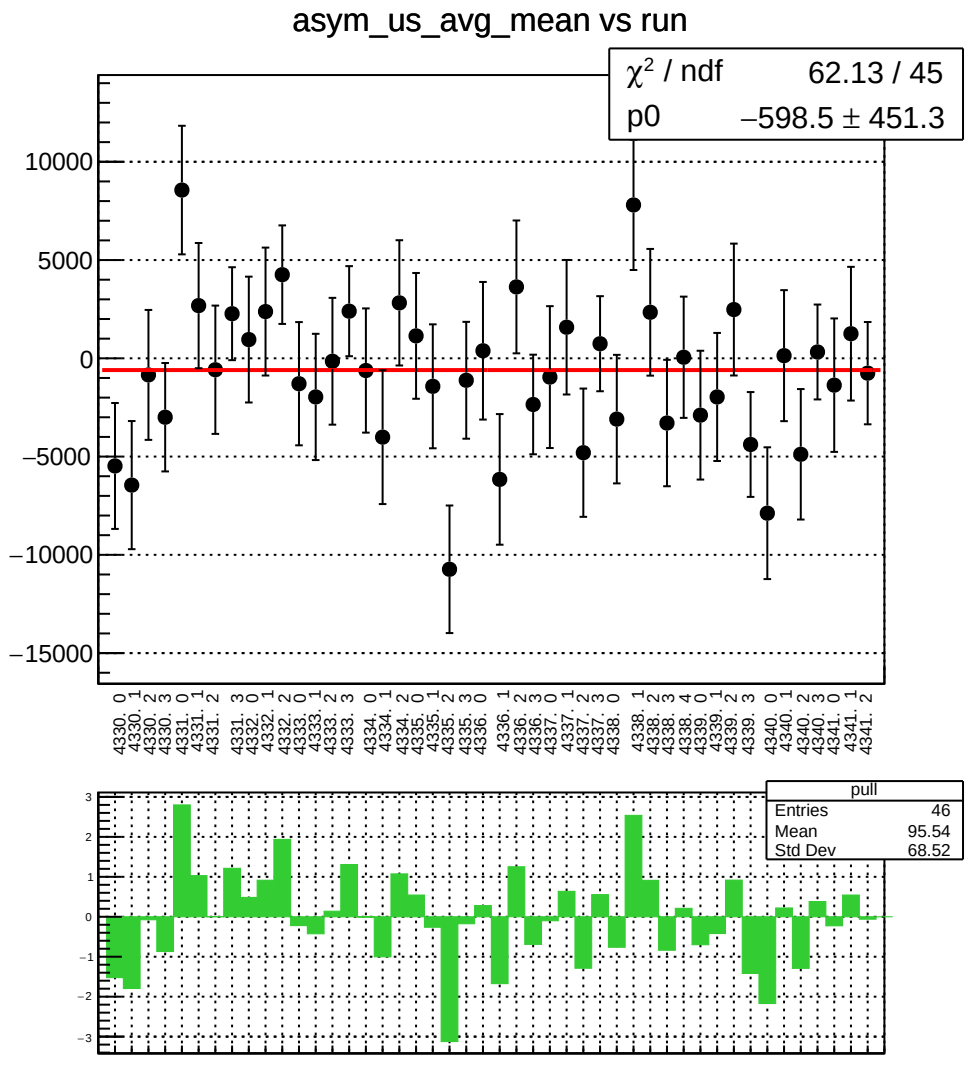

pull1D
Entries 46
Mean −0.04524
Std Dev 0.9701
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

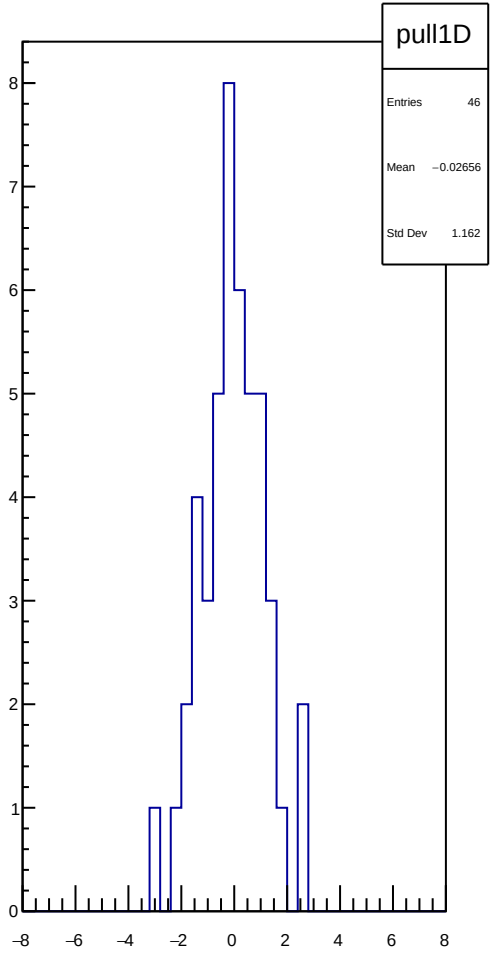

reg_asym_us_avg_rms vs run
χ² / ndf 57.82 / 45
p0 97.04 ± 0.09932
99
98
97
96
95
94
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

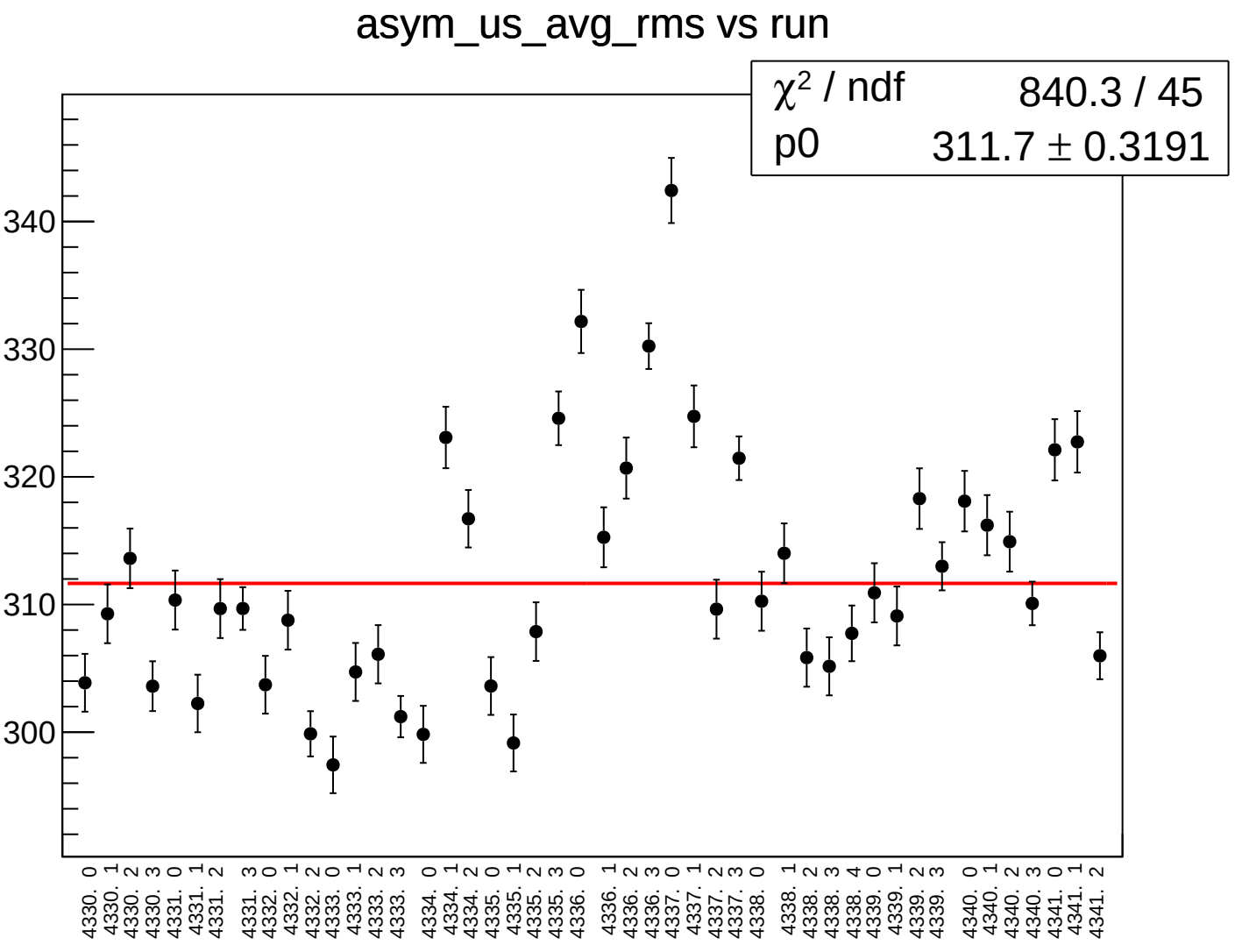

asym_us_avg_correction_mean vs run
χ² / ndf 62.4 / 45
p0 149.8 ± 428.8
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 240.9
Std Dev 216.8
2
1
0
−1
−2
−3

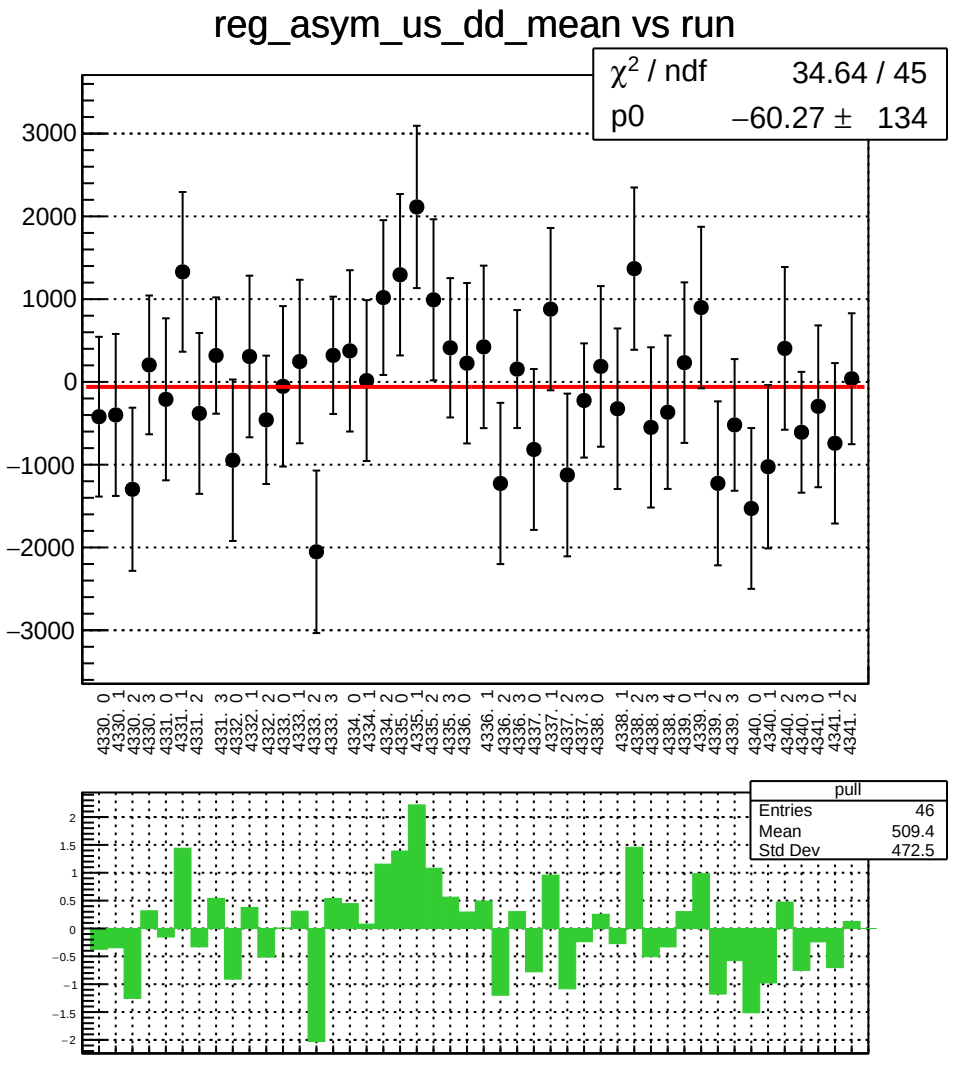

pull1D
Entries 46
Mean 0.01382
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

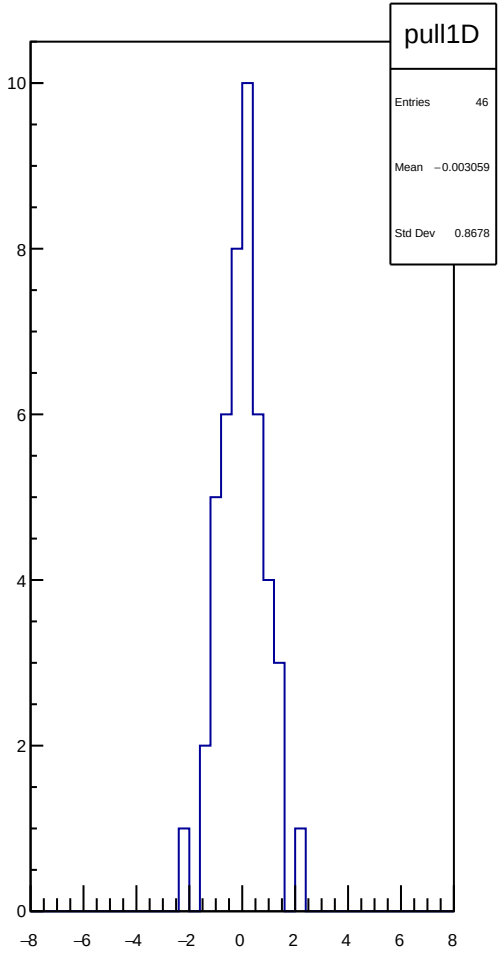

asym_us_avg_correction_rms vs run
χ² / ndf 1025 / 45
p0 296.1 ± 0.3032
330
320
310
300
290
280
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

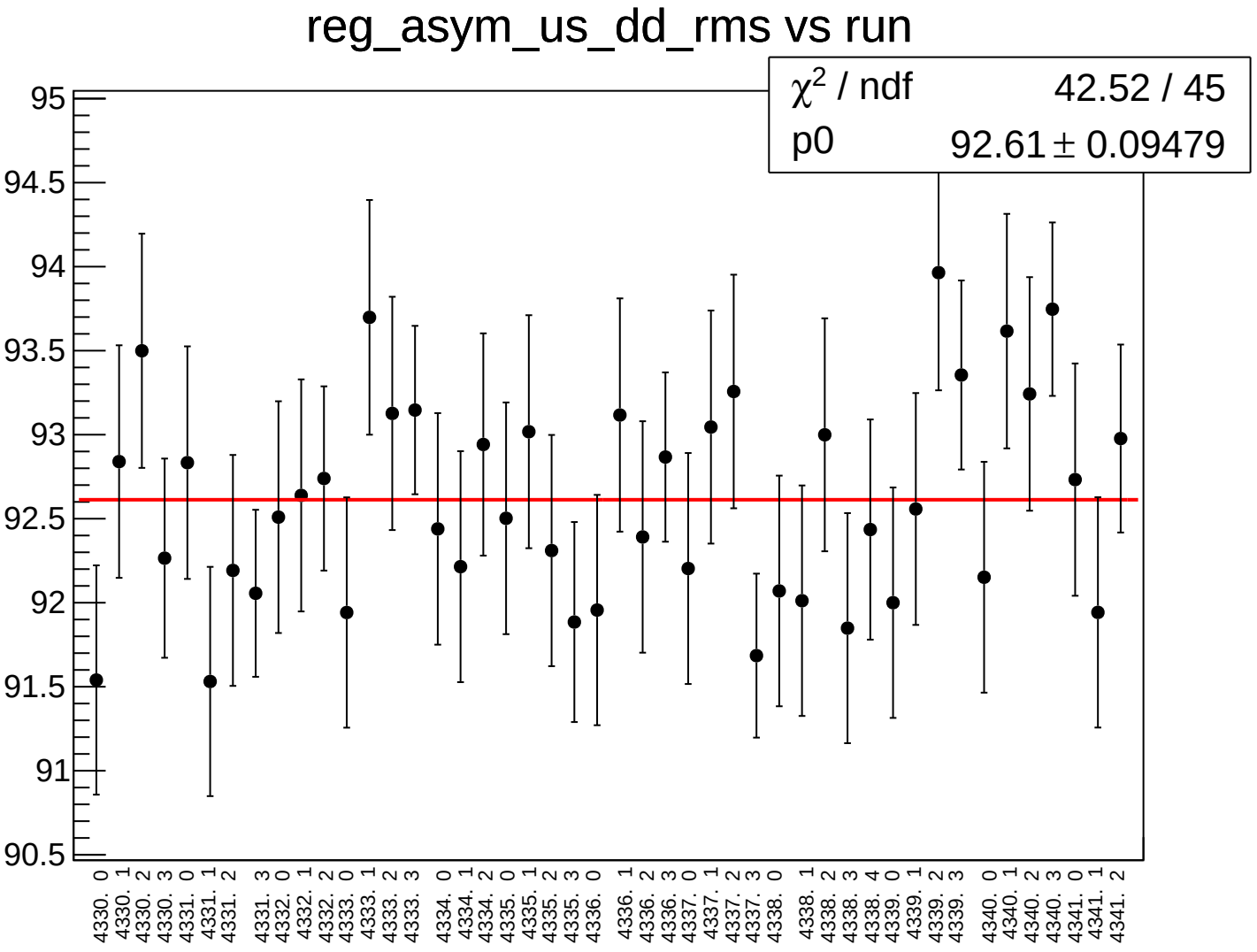

asym_us_avg_mean vs run
χ² / ndf 62.13 / 45
p0 −598.5 ± 451.3
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 95.54
Std Dev 68.52
3
2
1
0
−1
−2
−3

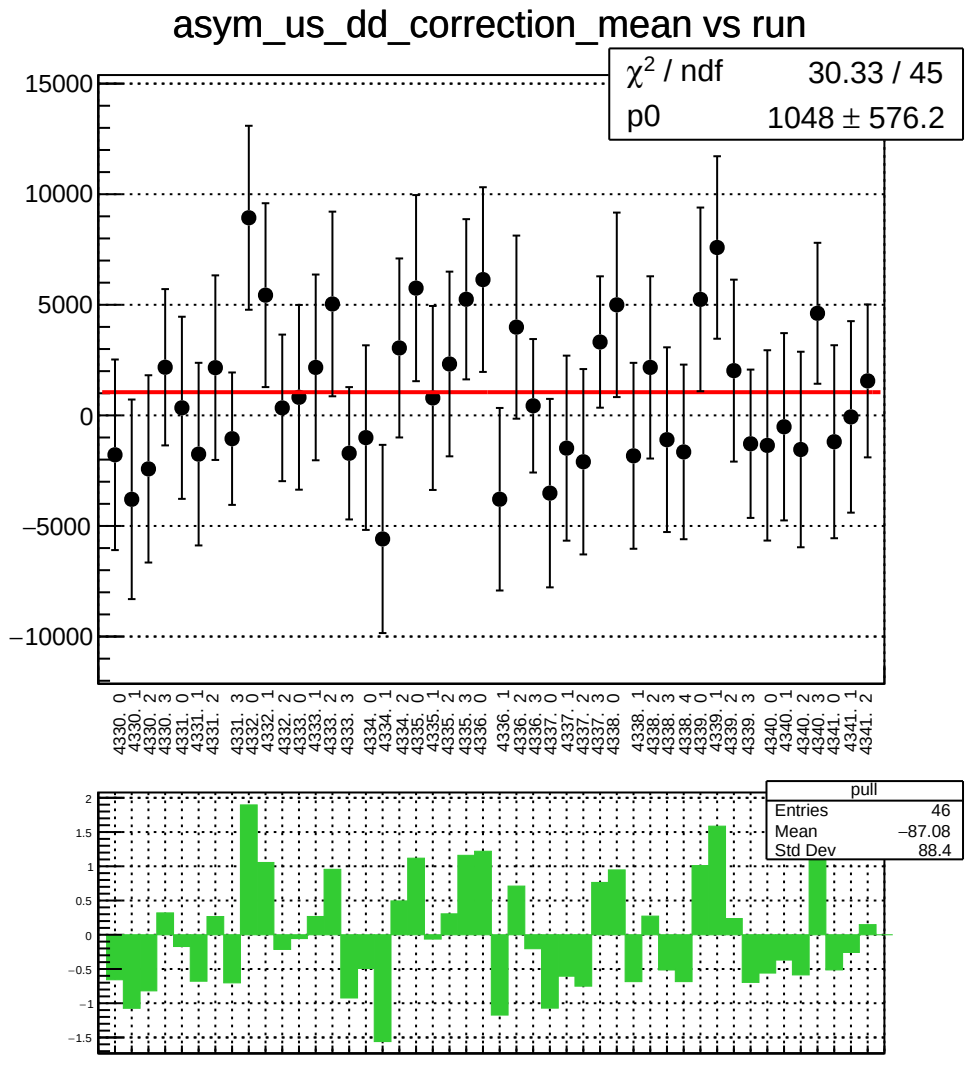

pull1D
Entries 46
Mean −0.02656
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

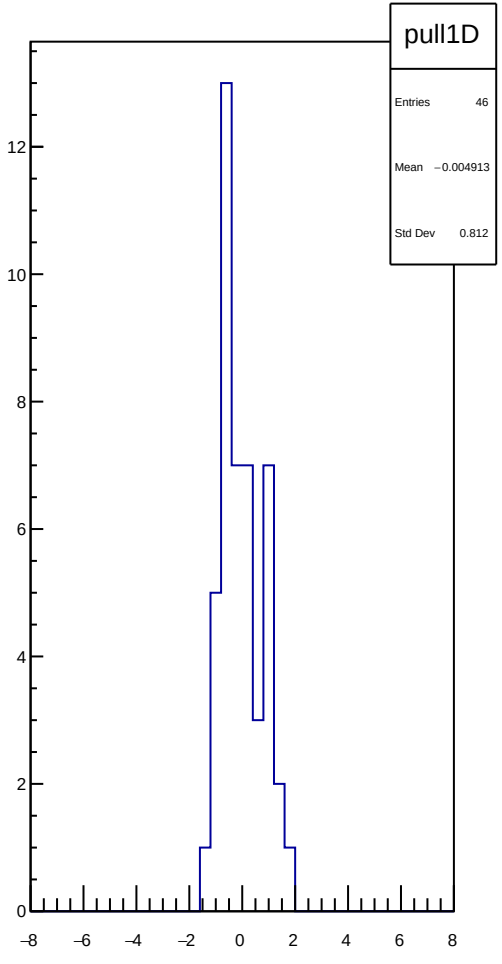

asym_us_avg_rms vs run
χ² / ndf 840.3 / 45
p0 311.7 ± 0.3191
340
330
320
310
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

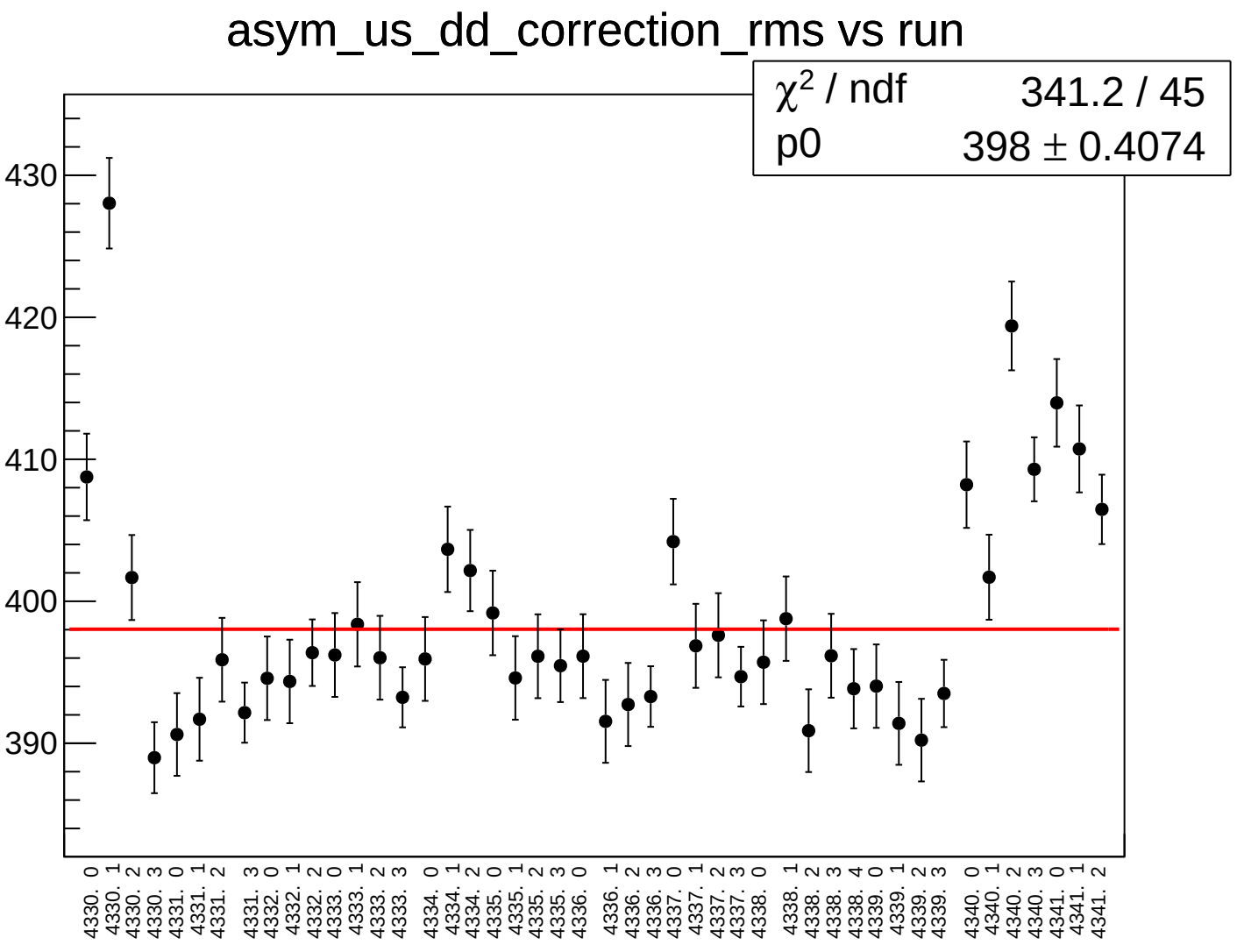

reg_asym_us_dd_mean vs run
χ² / ndf 34.64 / 45
p0 −60.27 ± 134
pull
Entries 46
Mean 509.4
Std Dev 472.5

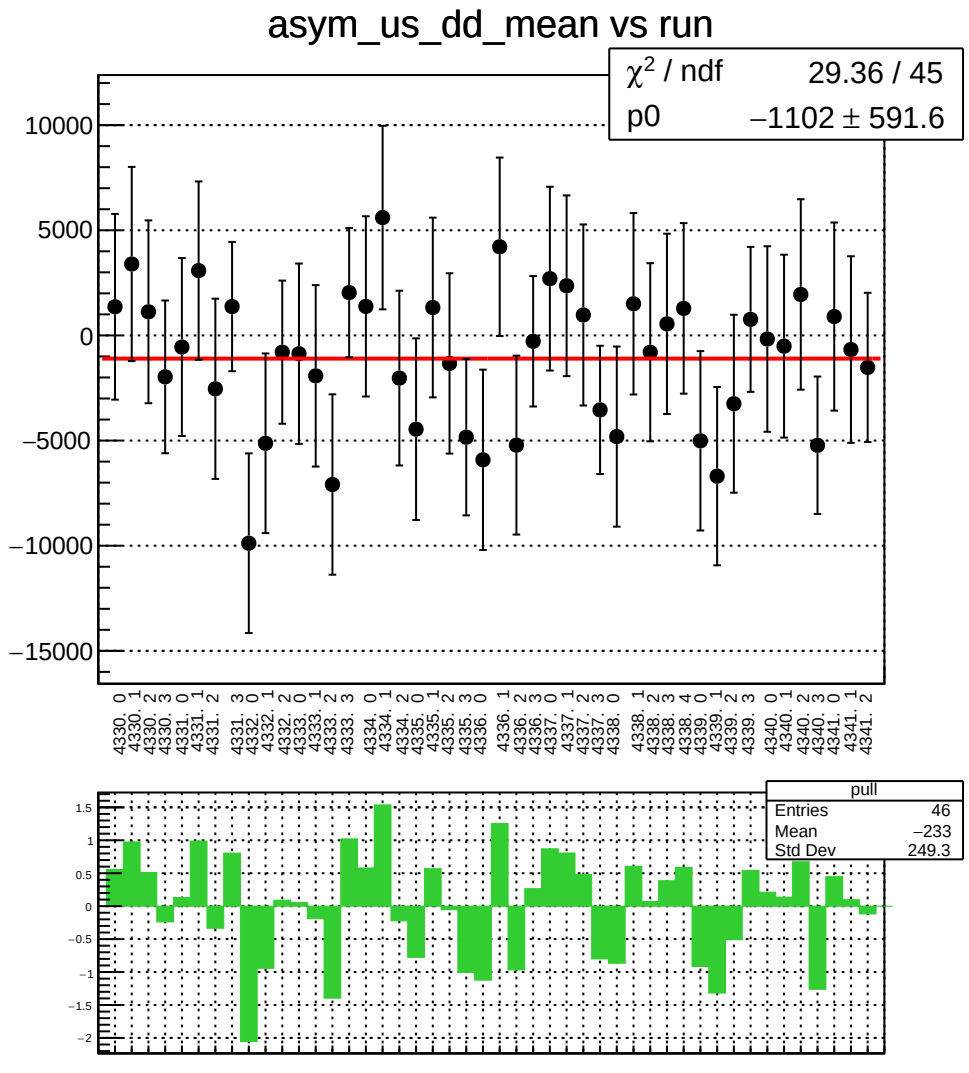

pull1D
Entries 46
Mean −0.003059
Std Dev 0.8678

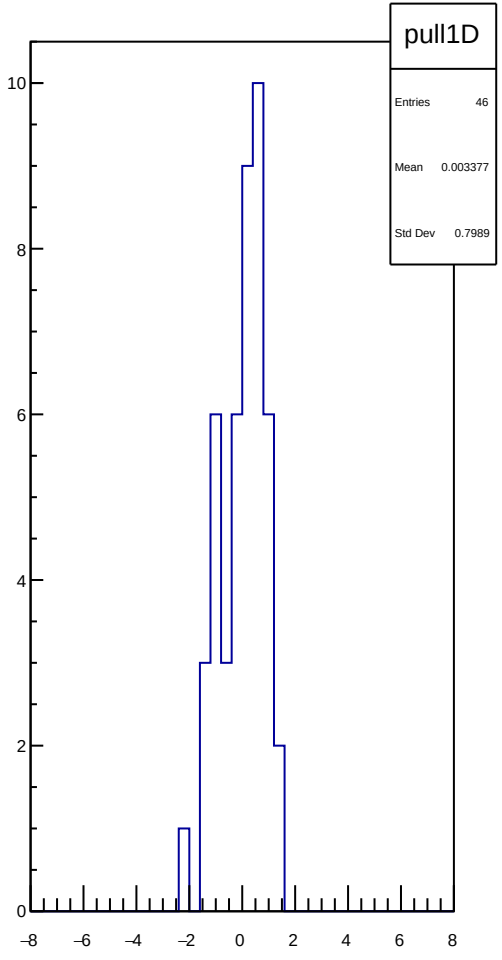

reg_asym_us_dd_rms vs run
χ^2 / ndf 42.52 / 45
p0 92.61 ± 0.09479
95
94.5
94
93.5
93
92.5
92
91.5
91
90.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

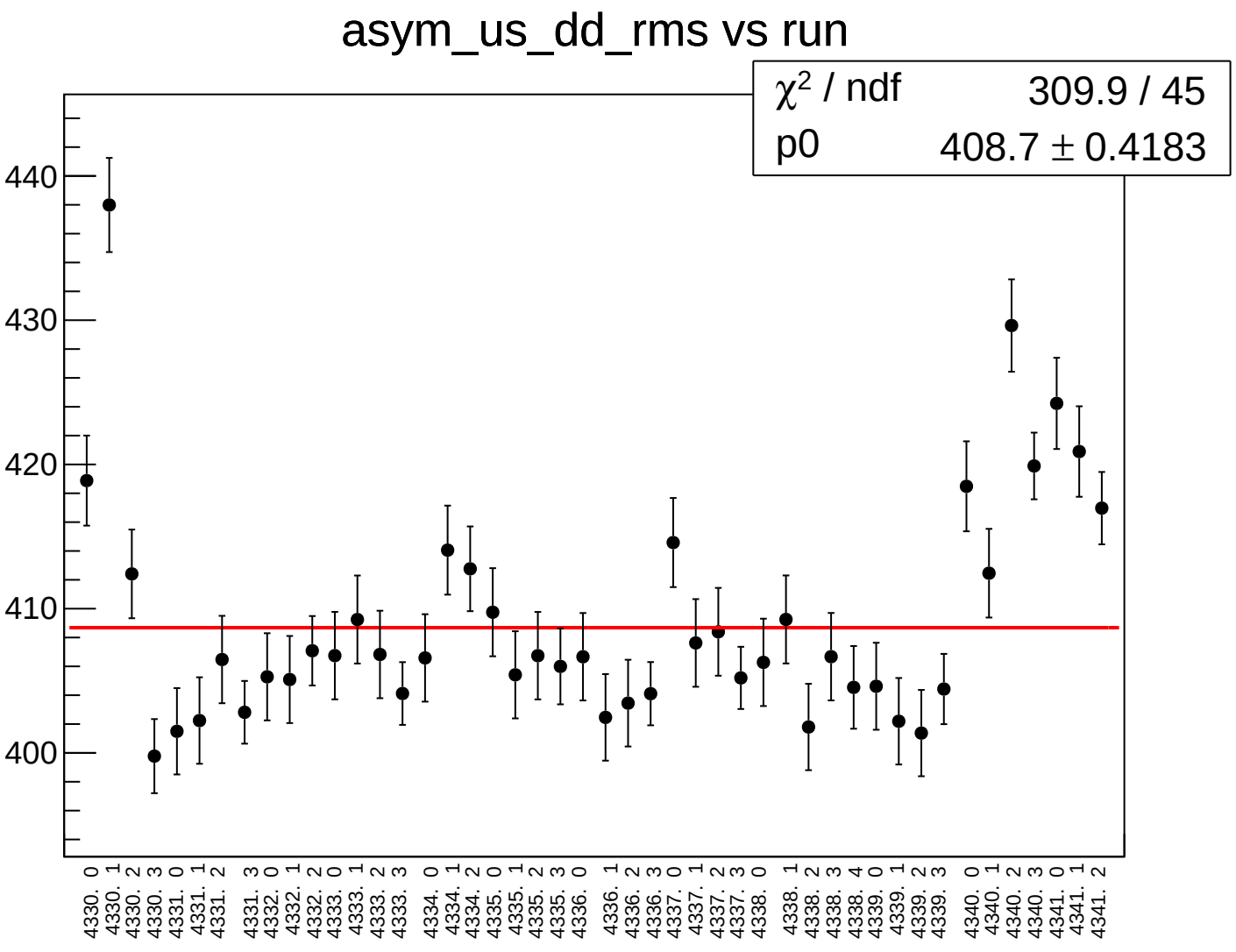

asym_us_dd_correction_mean vs run
χ² / ndf 30.33 / 45
p0 1048 ± 576.2
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −87.08
Std Dev 88.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

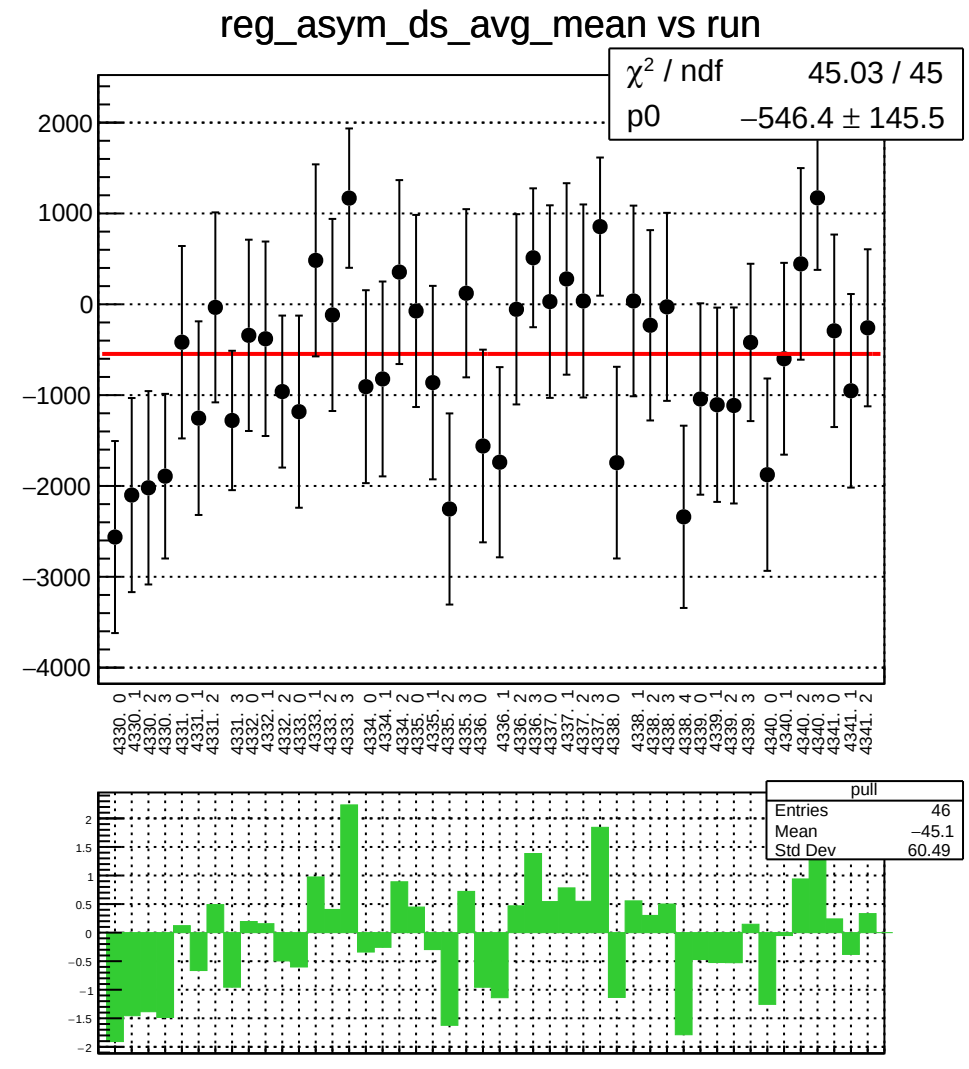

pull1D
Entries 46
Mean −0.004913
Std Dev 0.812
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

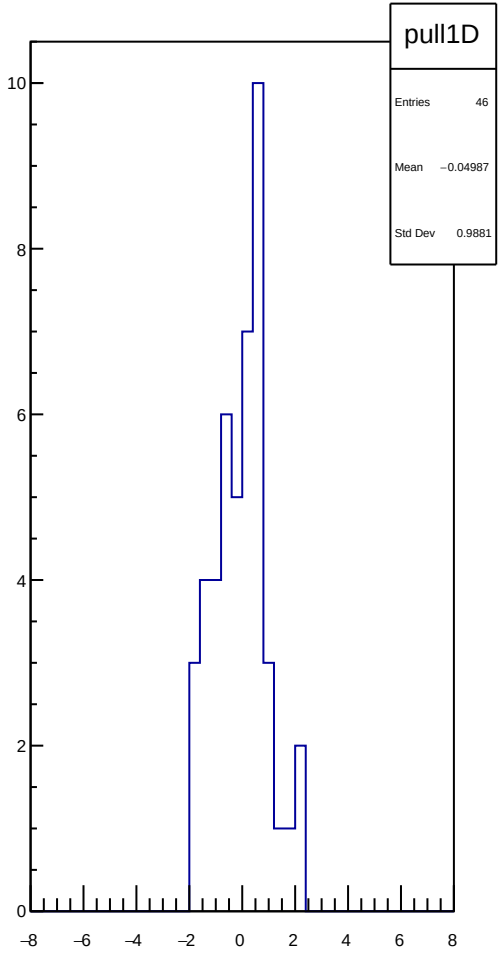

asym_us_dd_correction_rms vs run
χ^2 / ndf 341.2 / 45
p0 398 ± 0.4074
430
420
410
400
390
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

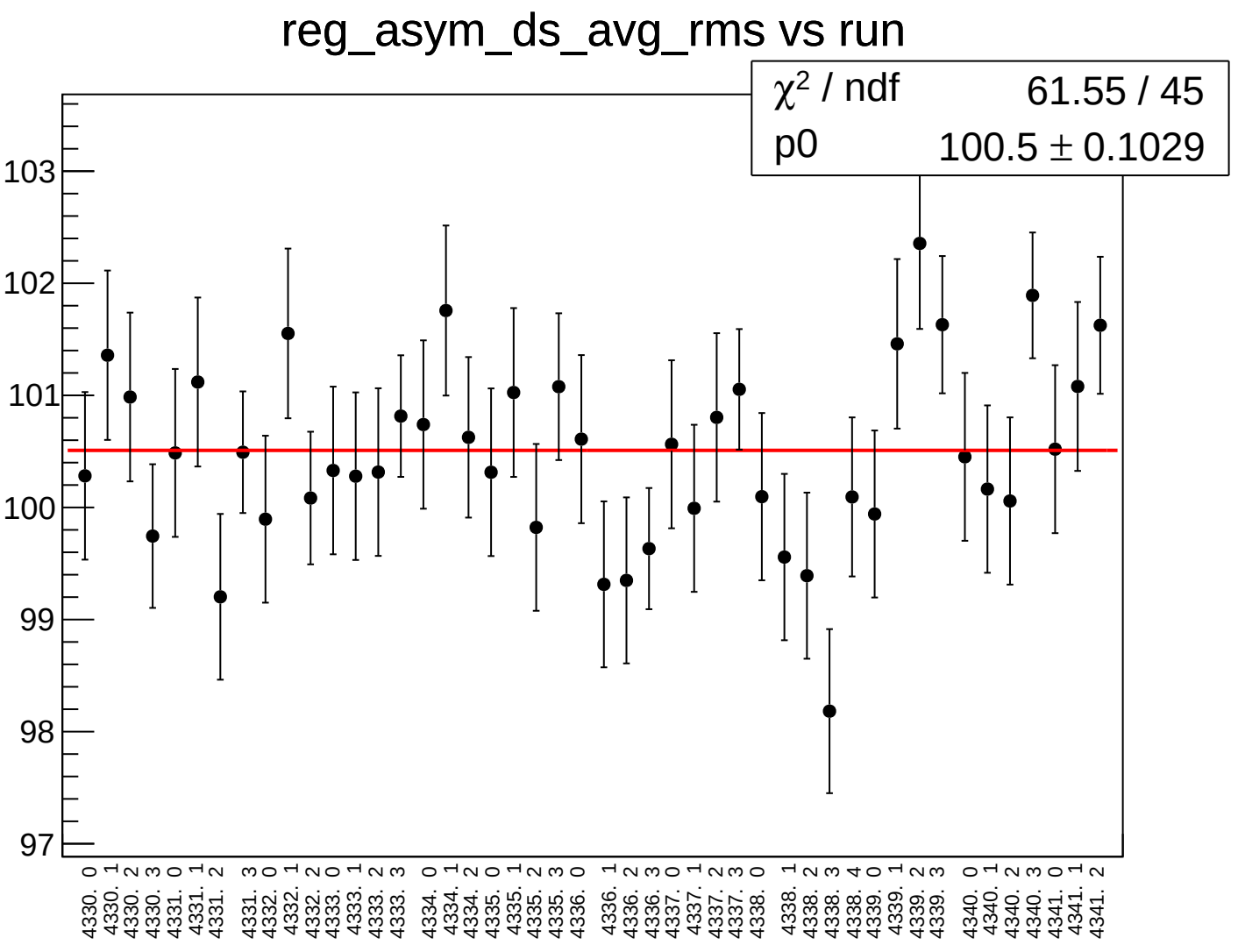

asym_us_dd_mean vs run
χ² / ndf 29.36 / 45
p0 −1102 ± 591.6
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −233
Std Dev 249.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

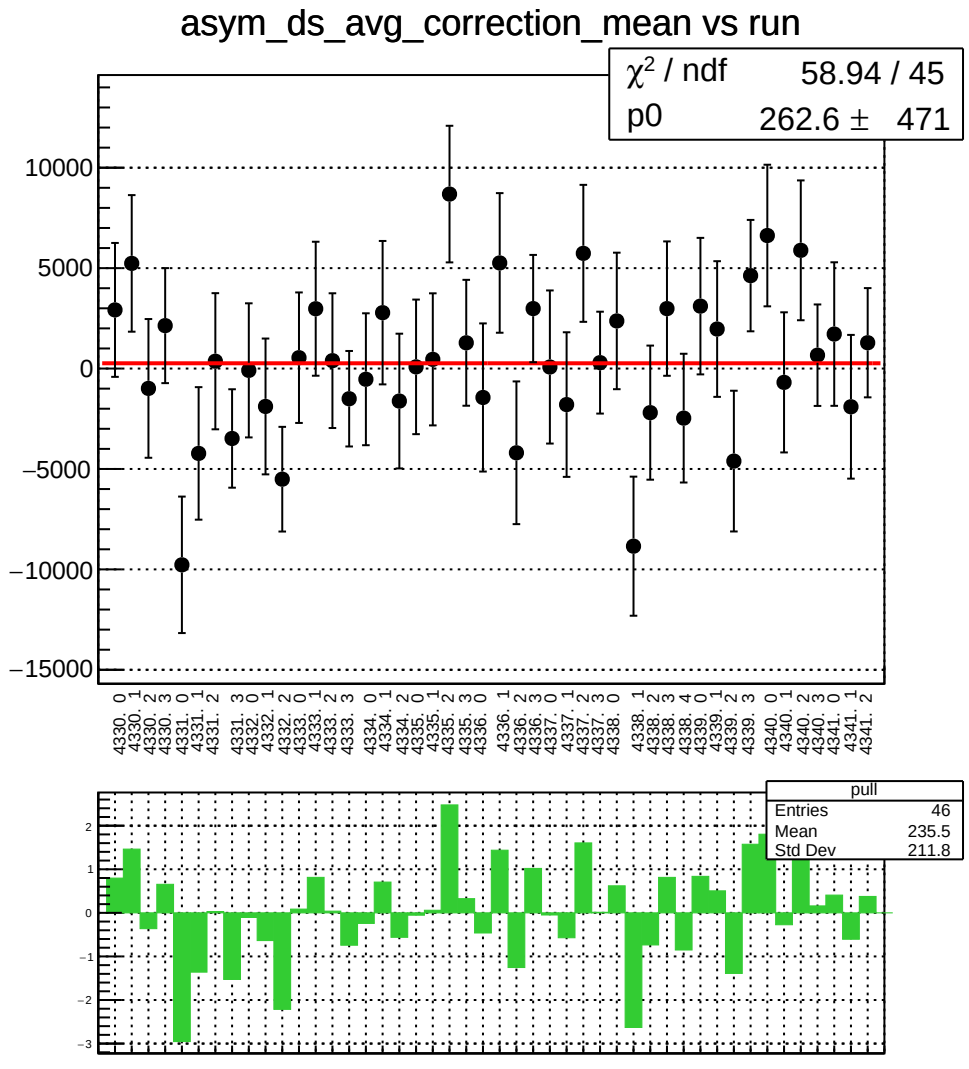

pull1D
Entries 46
Mean 0.003377
Std Dev 0.7989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

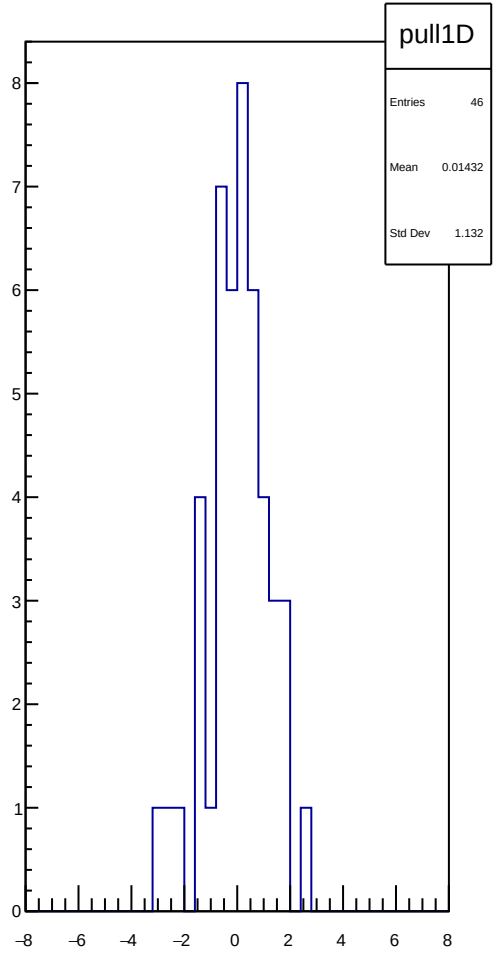

asym_us_dd_rms vs run
χ² / ndf 309.9 / 45
p0 408.7 ± 0.4183
440
430
420
410
400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

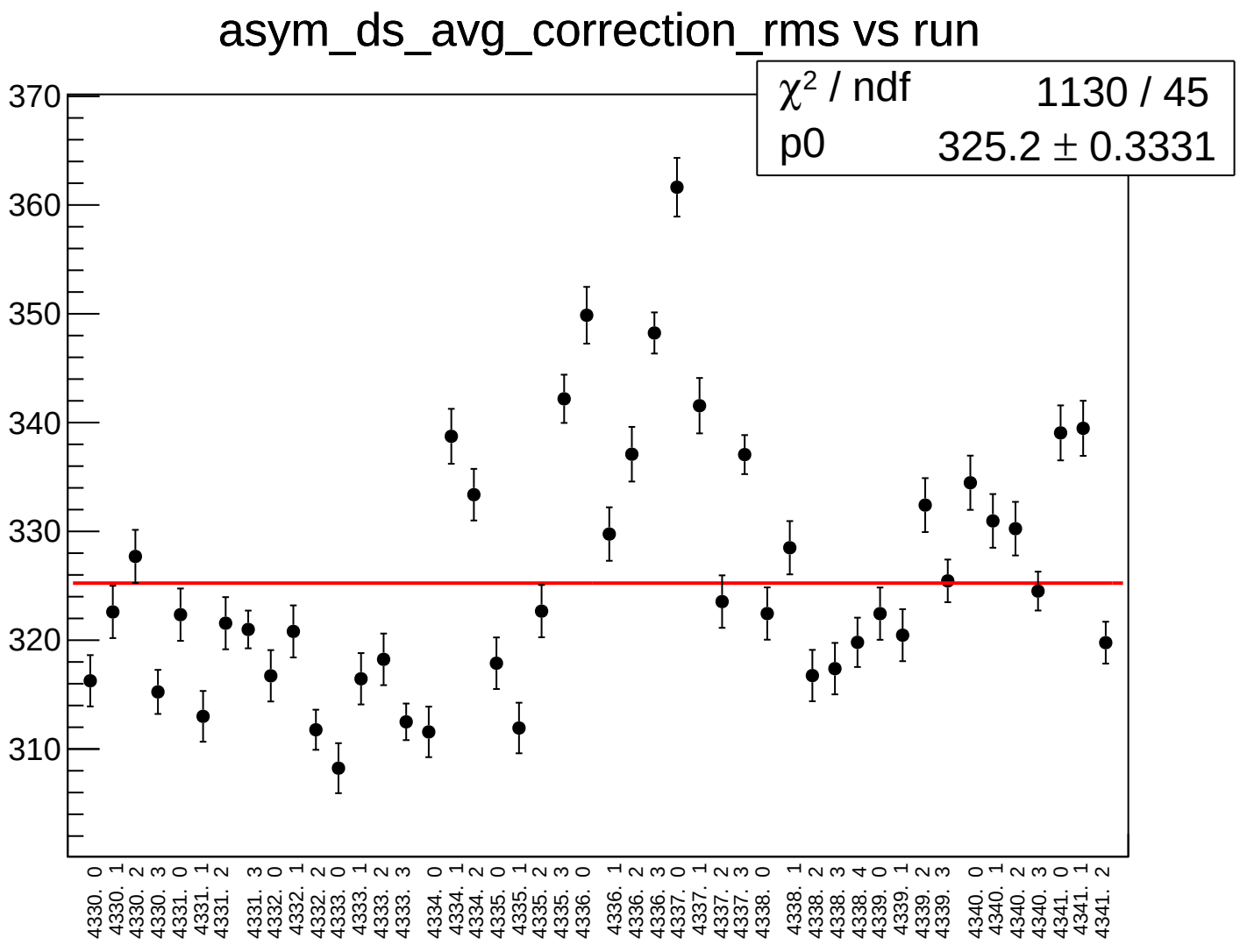

reg_asym_ds_avg_mean vs run
χ² / ndf 45.03 / 45
p0 −546.4 ± 145.5
pull
Entries 46
Mean −45.1
Std Dev 60.49

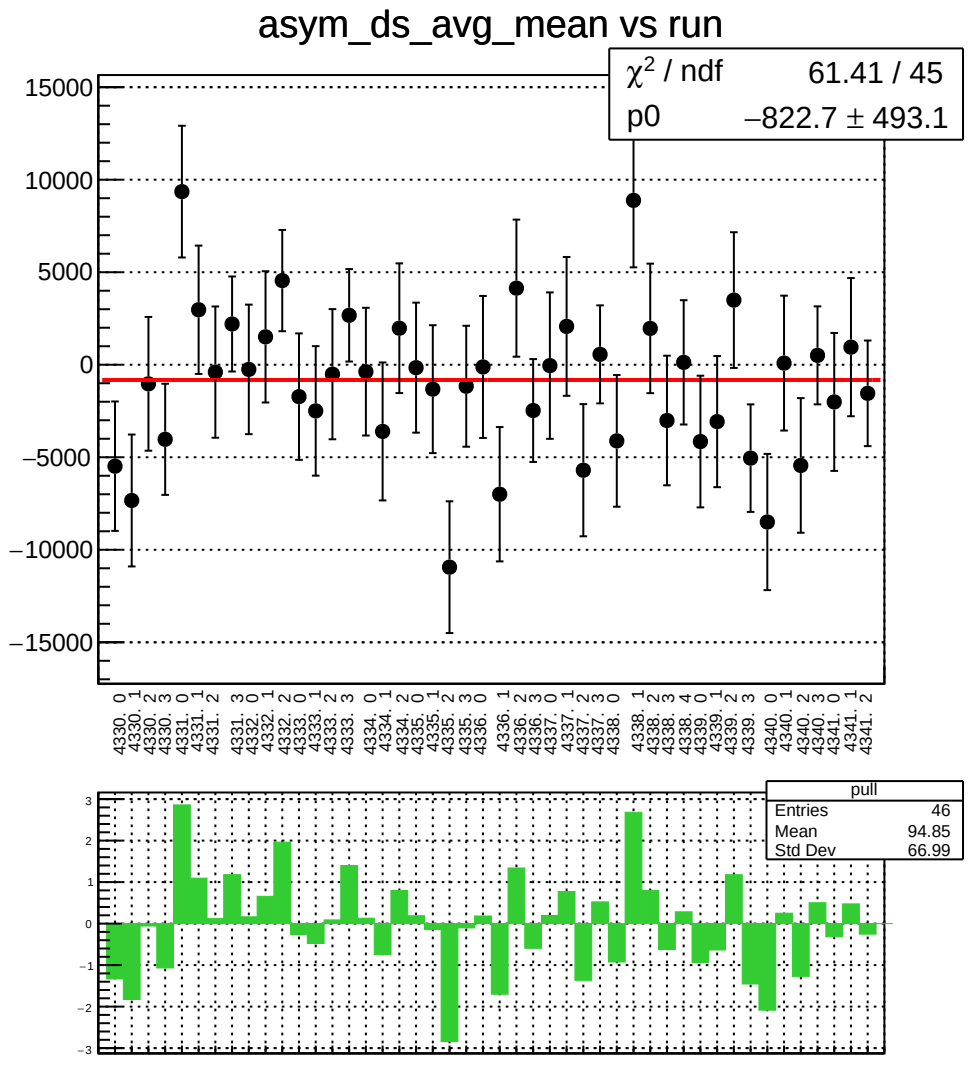

pull1D
Entries 46
Mean −0.04987
Std Dev 0.9881

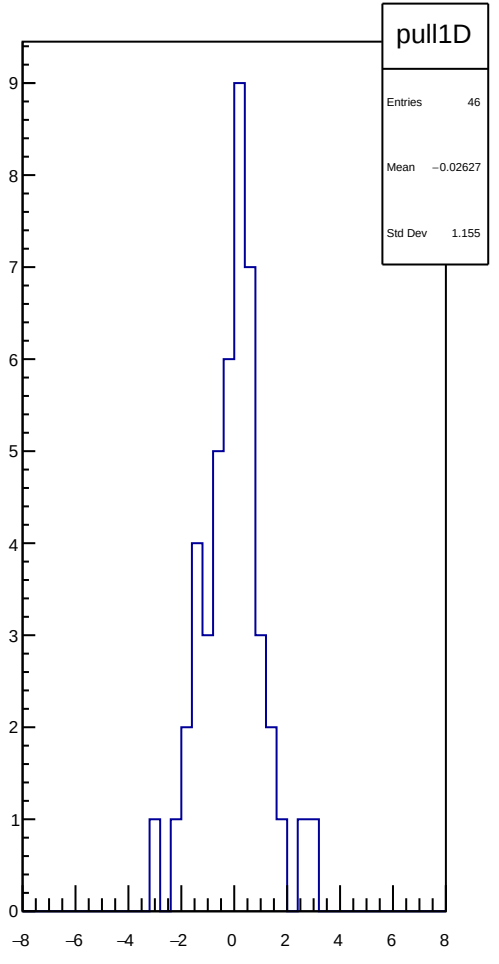

reg_asym_ds_avg_rms vs run
χ² / ndf 61.55 / 45
p0 100.5 ± 0.1029
103
102
101
100
99
98
97
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

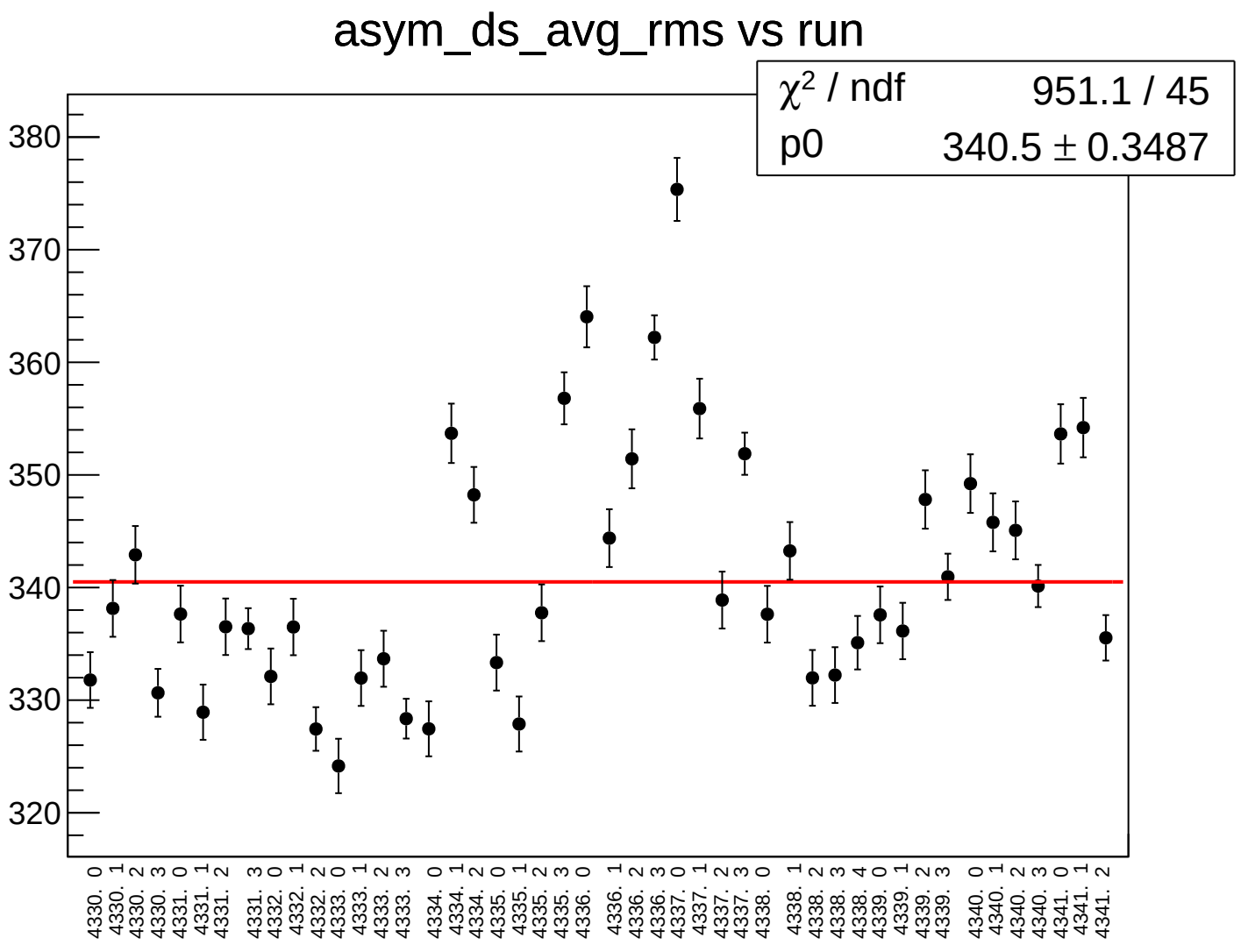

asym_ds_avg_correction_mean vs run
χ² / ndf 58.94 / 45
p0 262.6 ± 471
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 235.5
Std Dev 211.8
2
1
0
−1
−2
−3

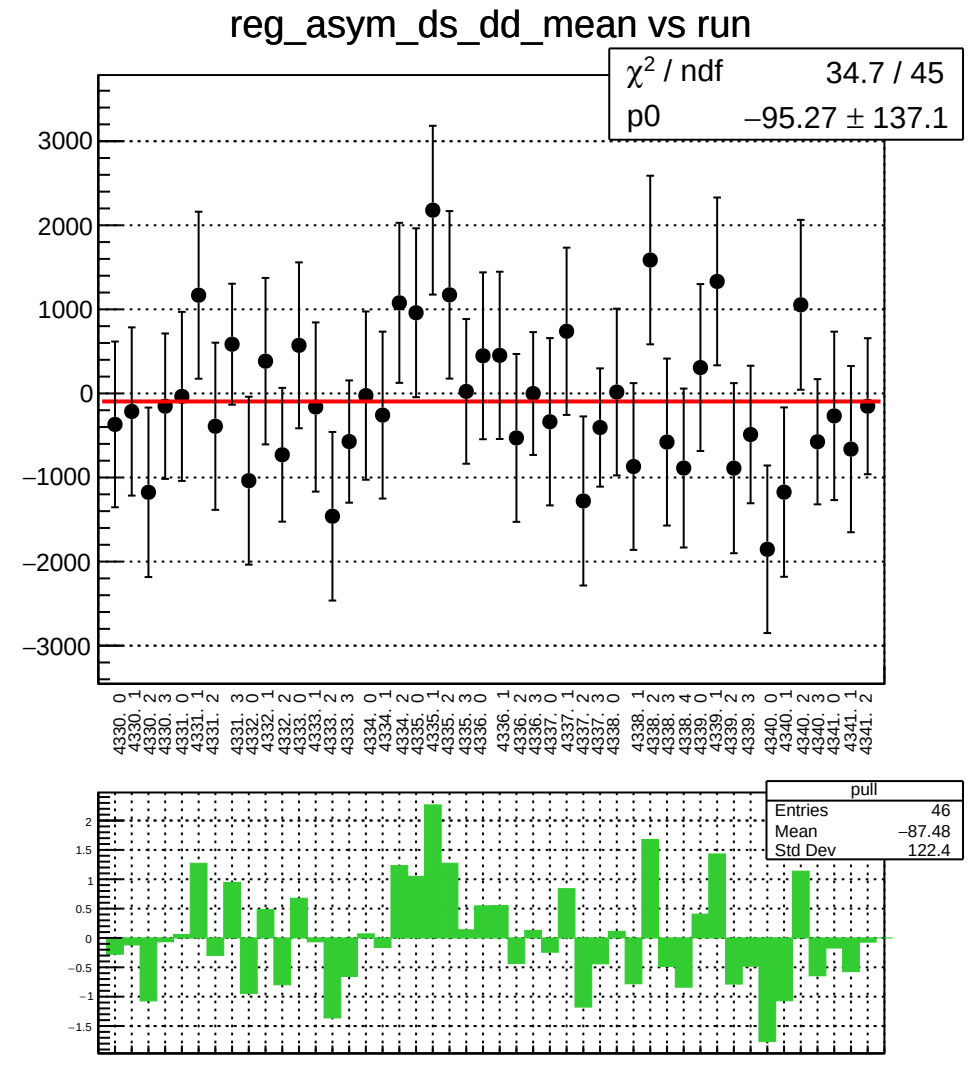

pull1D
Entries 46
Mean 0.01432
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

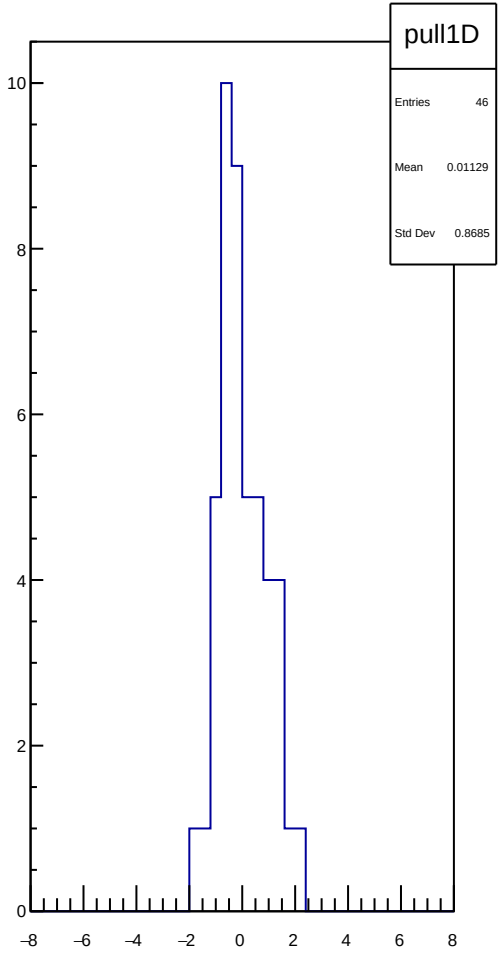

asym_ds_avg_correction_rms vs run
χ² / ndf 1130 / 45
p0 325.2 ± 0.3331
370
360
350
340
330
320
310
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

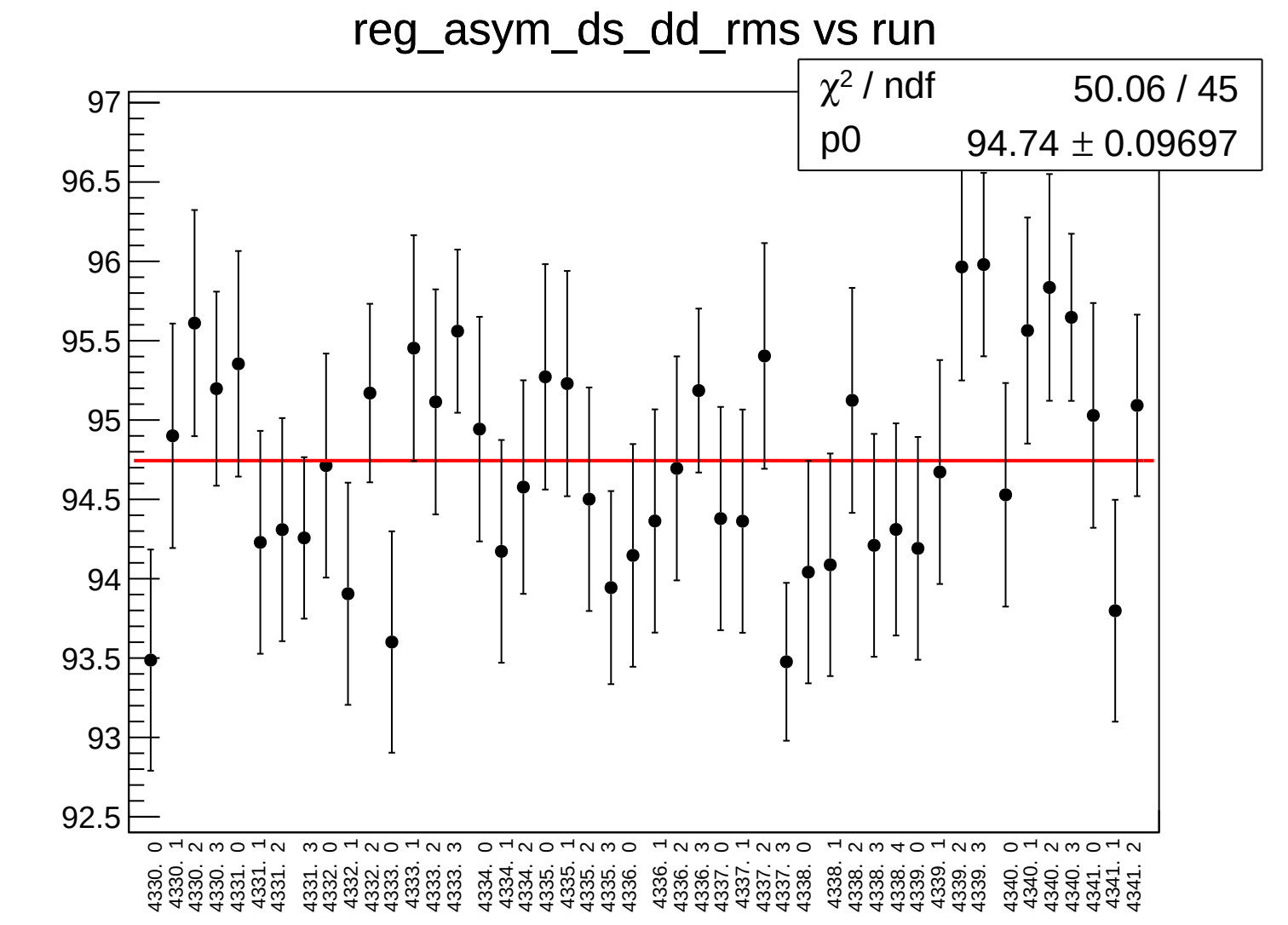

asym_ds_avg_mean vs run
χ² / ndf 61.41 / 45
p0 −822.7 ± 493.1
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 94.85
Std Dev 66.99
3
2
1
0
−1
−2
−3

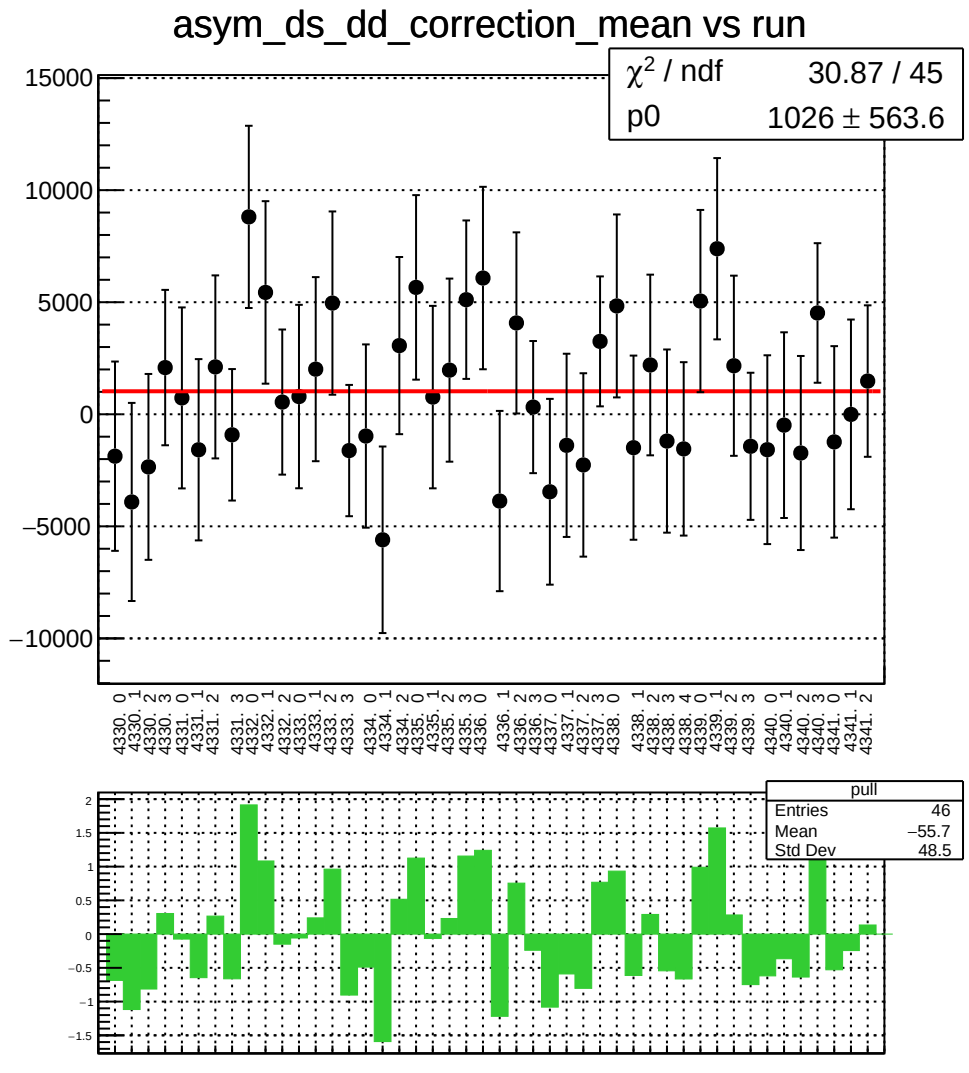

pull1D
Entries 46
Mean −0.02627
Std Dev 1.155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

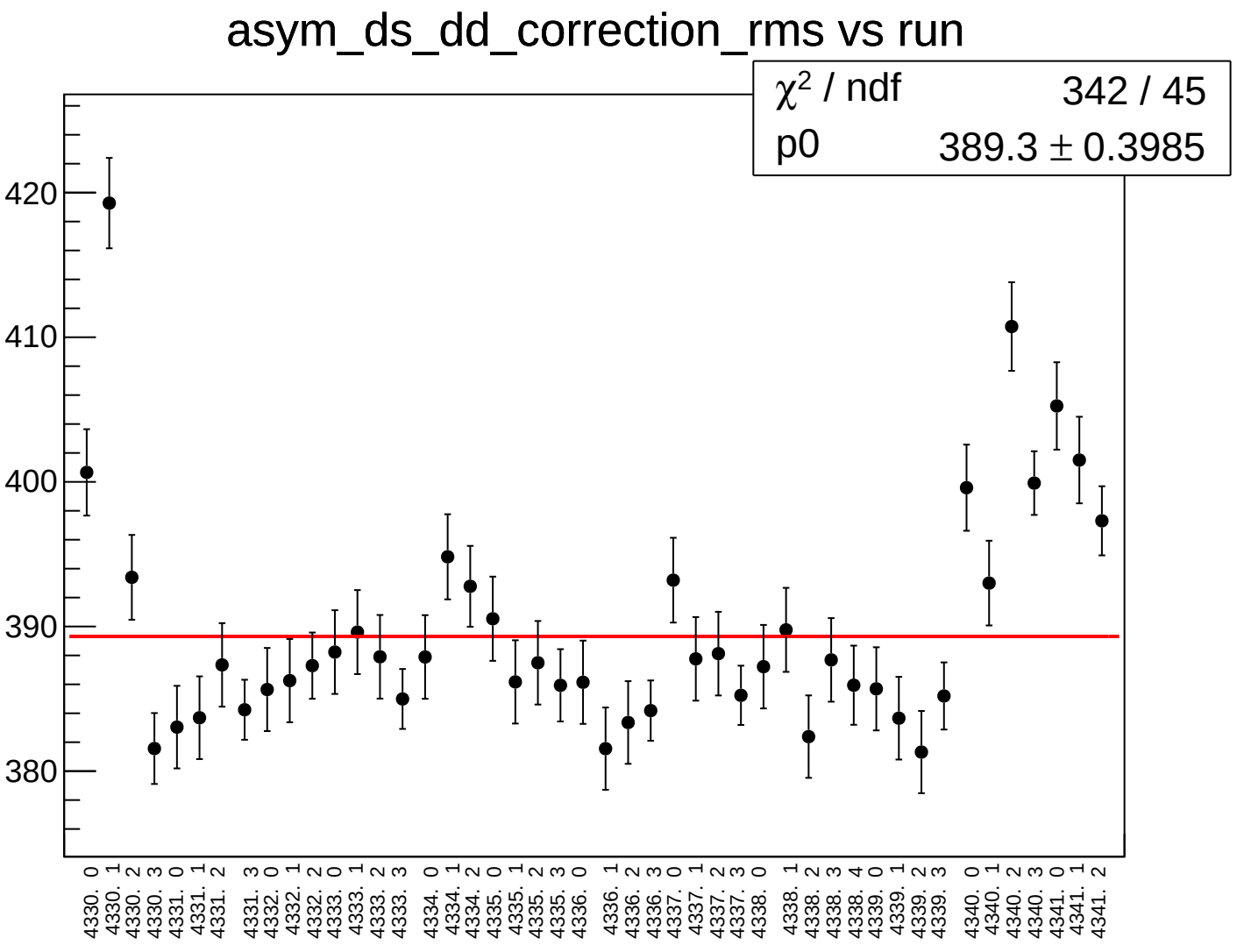

asym_ds_avg_rms vs run
χ² / ndf 951.1 / 45
p0 340.5 ± 0.3487
380
370
360
350
340
330
320
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

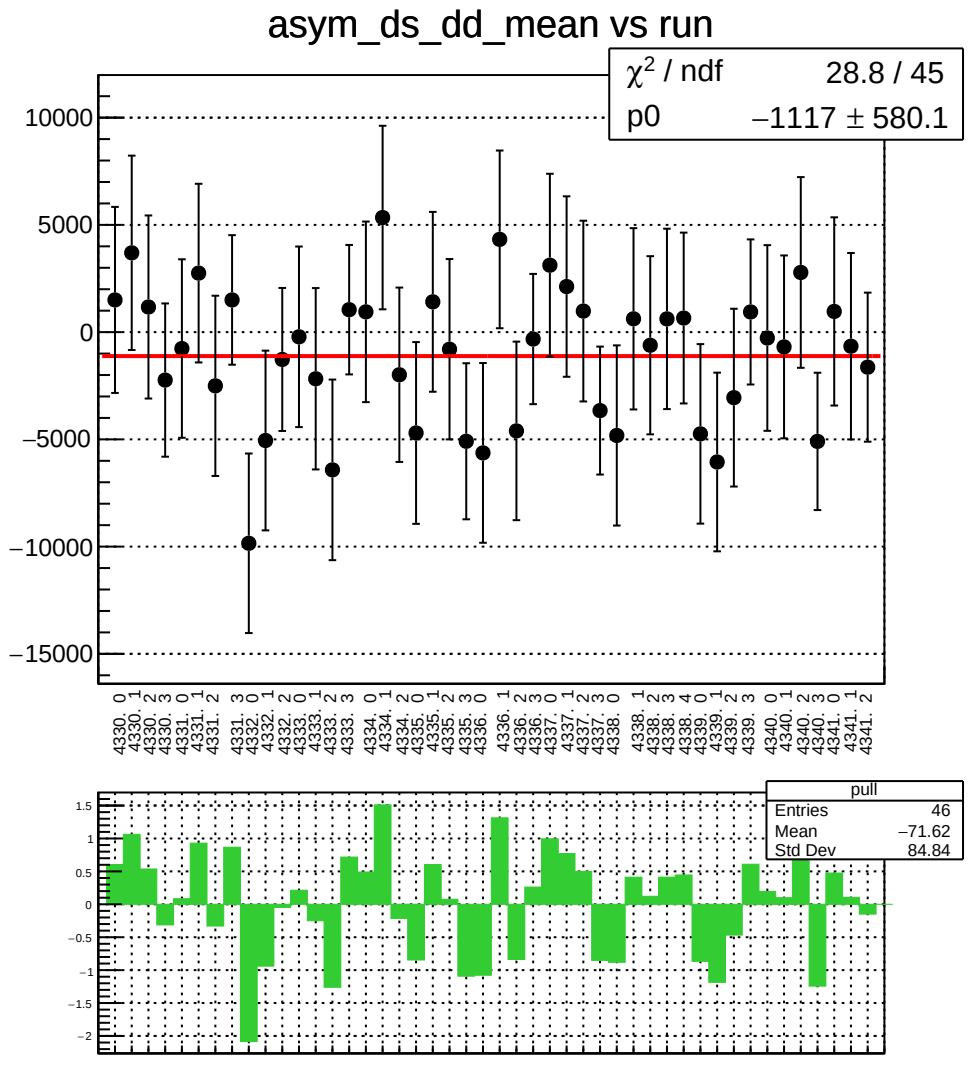

reg_asym_ds_dd_mean vs run
χ² / ndf 34.7 / 45
p0 −95.27 ± 137.1
3000
2000
1000
0
−1000
−2000
−3000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −87.48
Std Dev 122.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

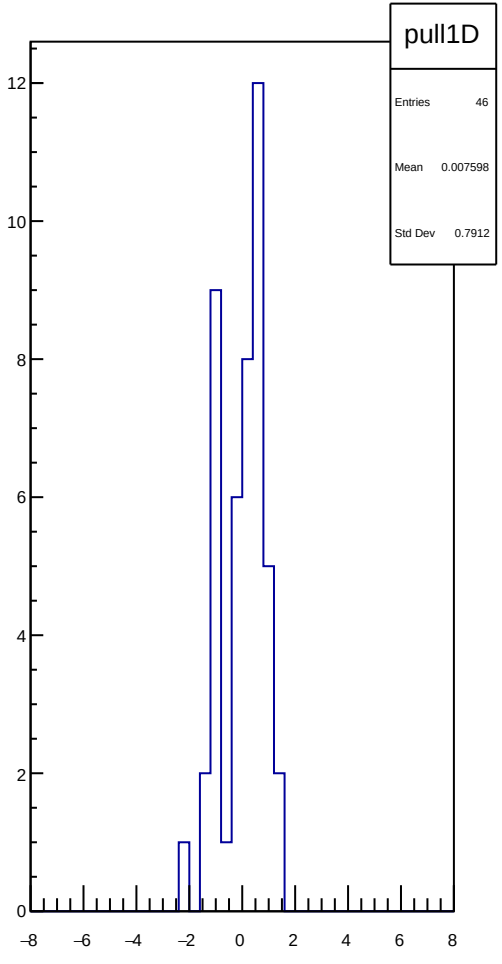

pull1D
Entries 46
Mean 0.01129
Std Dev 0.8685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

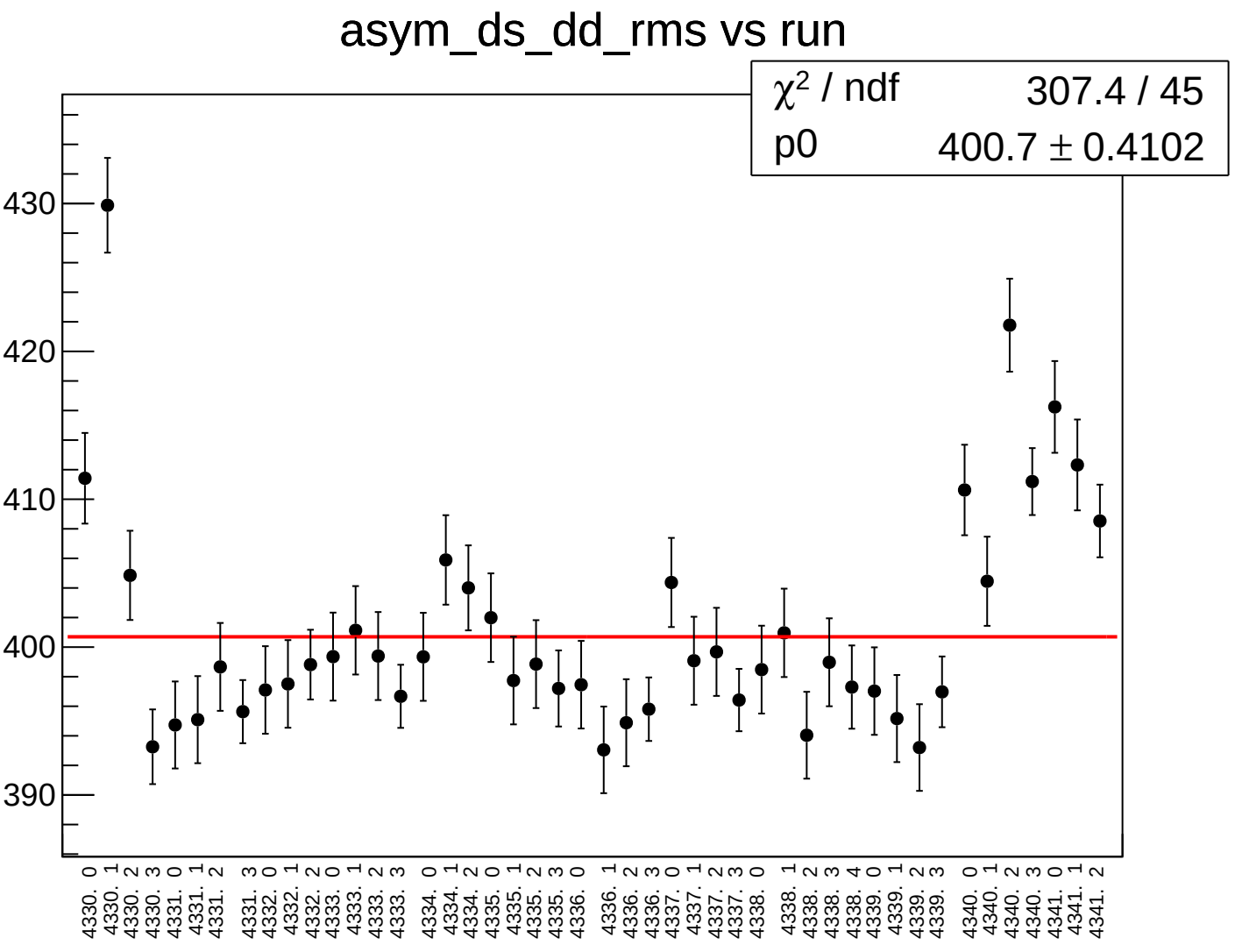

reg_asym_ds_dd_rms vs run
χ² / ndf 50.06 / 45
p0 94.74 ± 0.09697
97
96.5
96
95.5
95
94.5
94
93.5
93
92.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

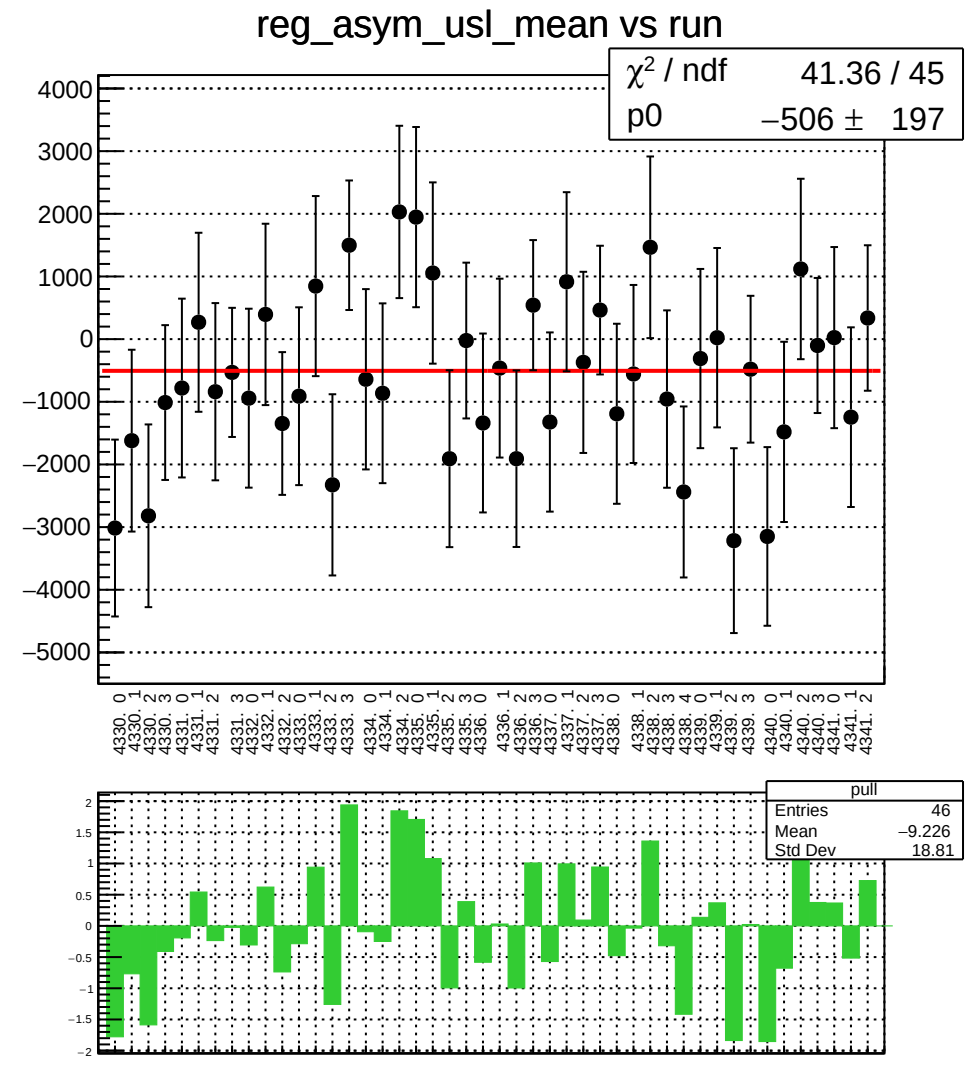

asym_ds_dd_correction_mean vs run
χ² / ndf 30.87 / 45
p0 1026 ± 563.6
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −55.7
Std Dev 48.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.005557
Std Dev 0.8192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

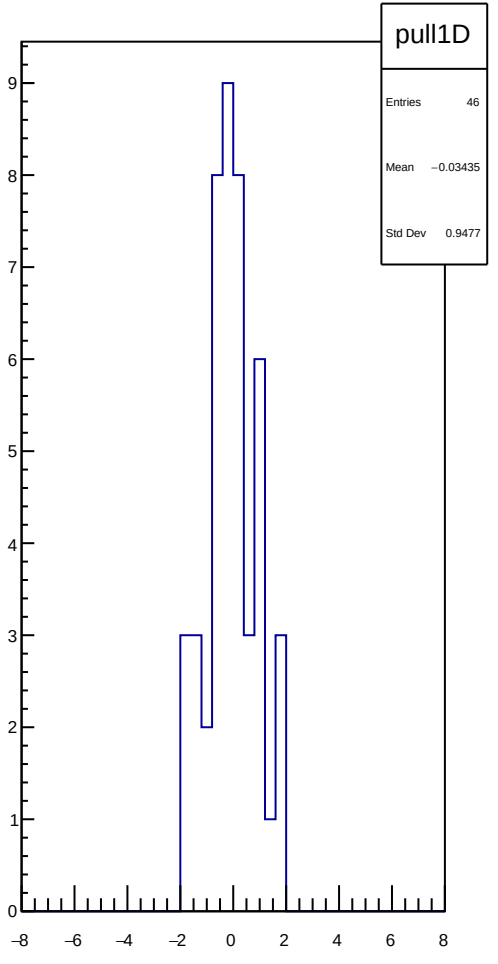

asym_ds_dd_correction_rms vs run
χ² / ndf 342 / 45
p0 389.3 ± 0.3985
420
410
400
390
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

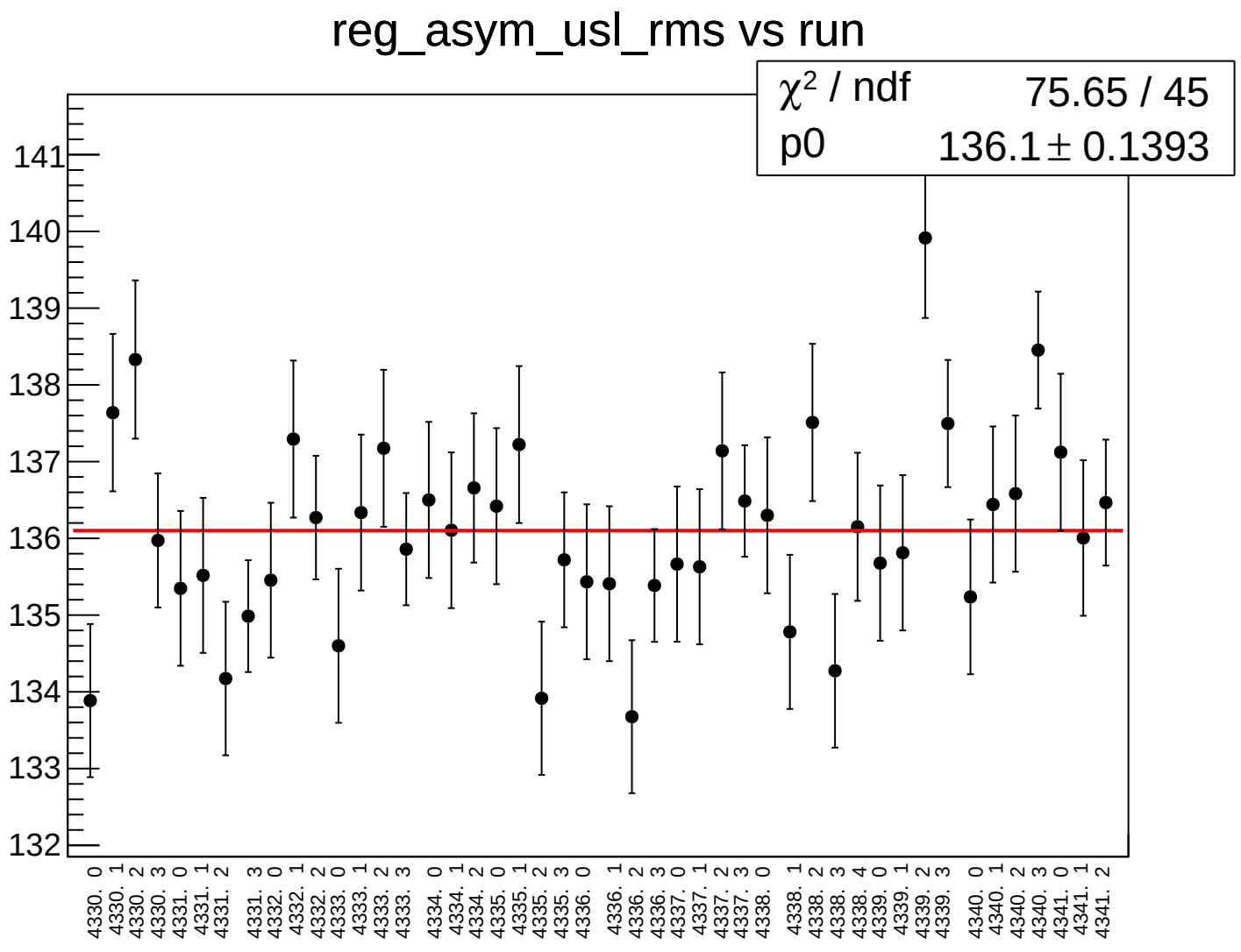

asym_ds_dd_mean vs run
χ² / ndf 28.8 / 45
p0 −1117 ± 580.1
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −71.62
Std Dev 84.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2

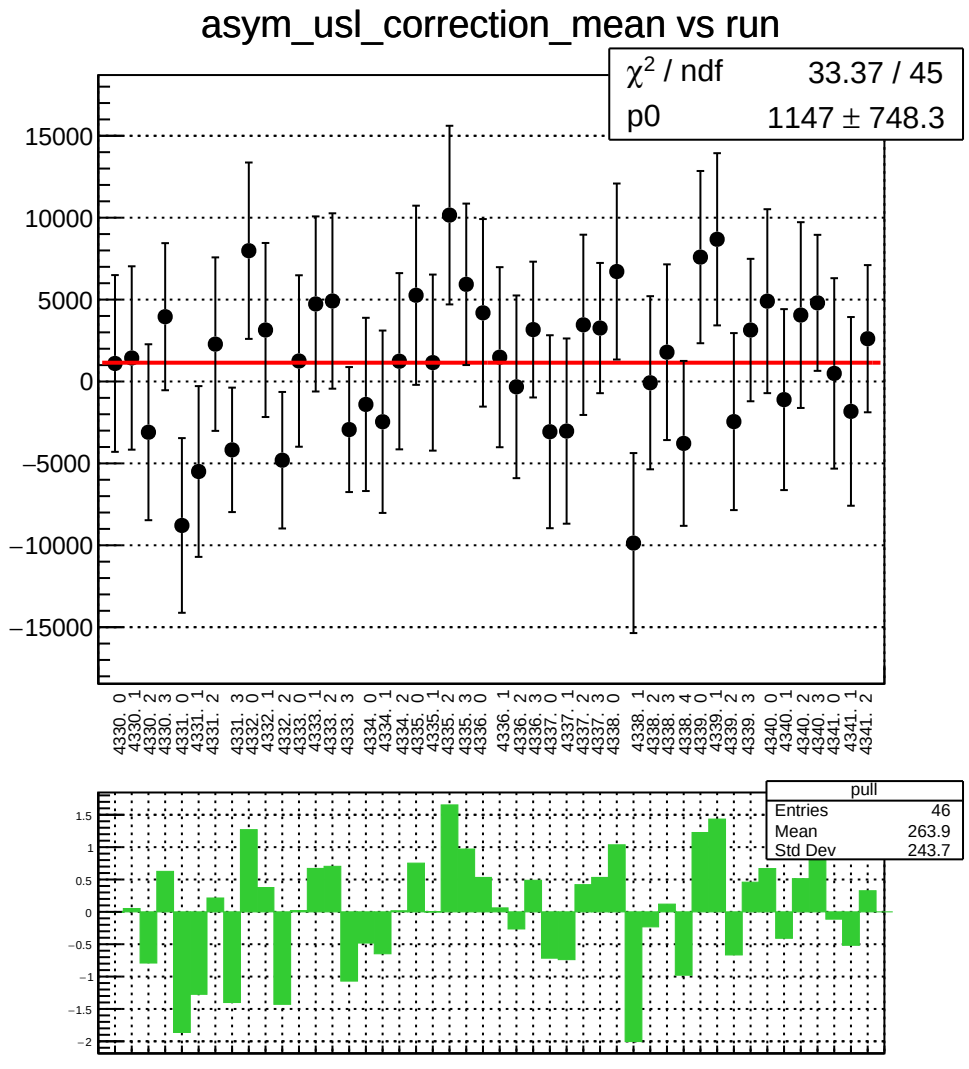

pull1D
Entries 46
Mean 0.007598
Std Dev 0.7912
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

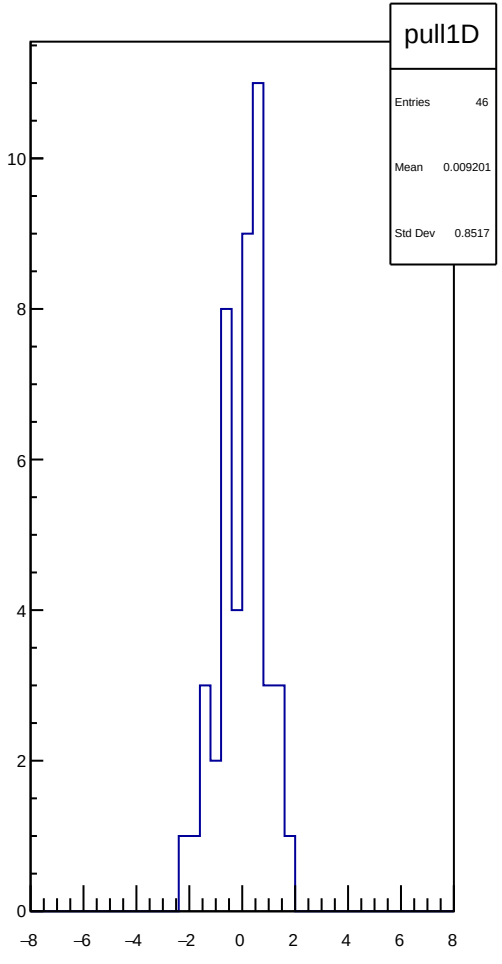

asym_ds_dd_rms vs run
χ² / ndf 307.4 / 45
p0 400.7 ± 0.4102
430
420
410
400
390
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

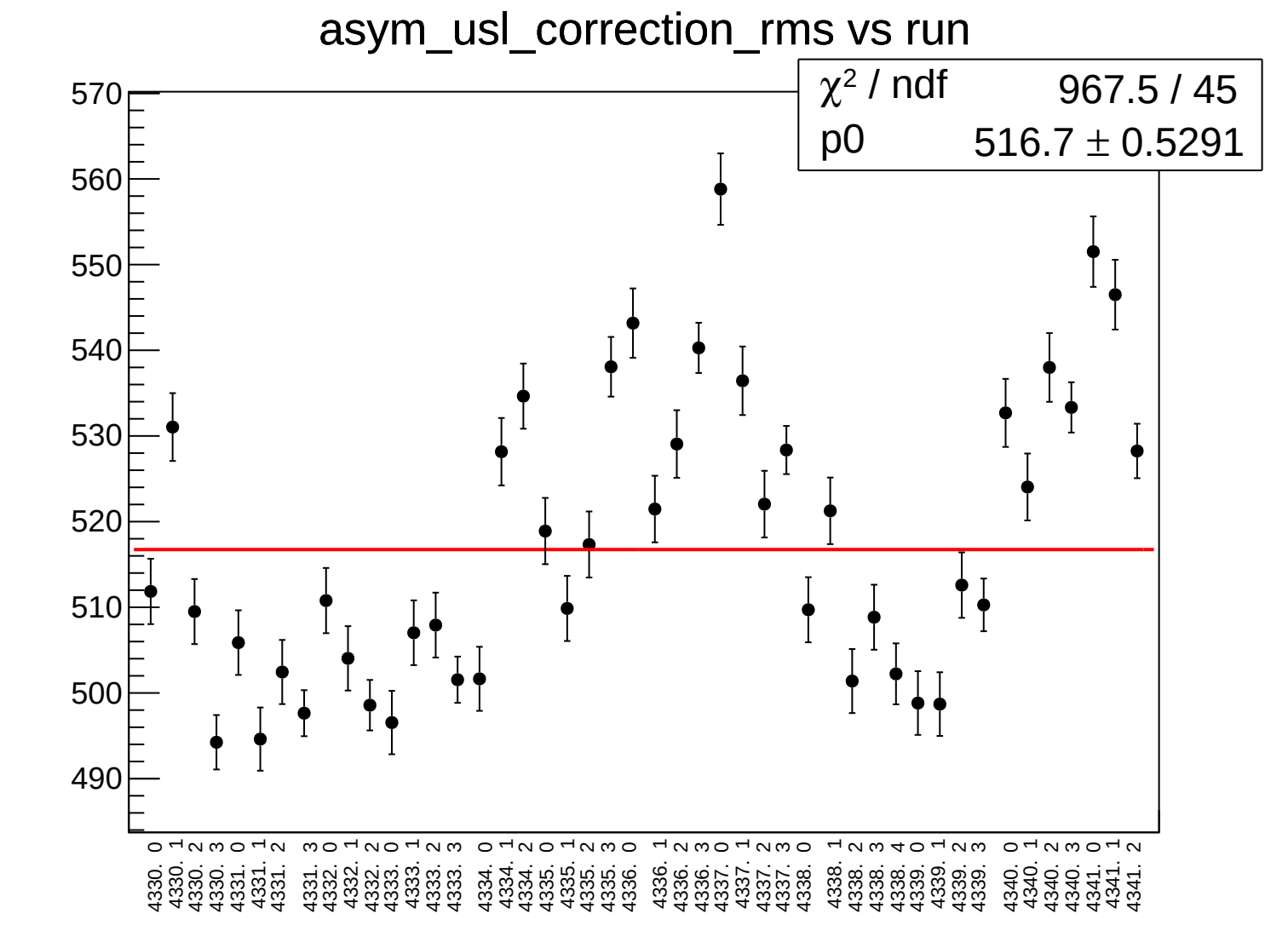

reg_asym_usl_mean vs run
χ² / ndf 41.36 / 45
p0 −506 ± 197
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −9.226
Std Dev 18.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

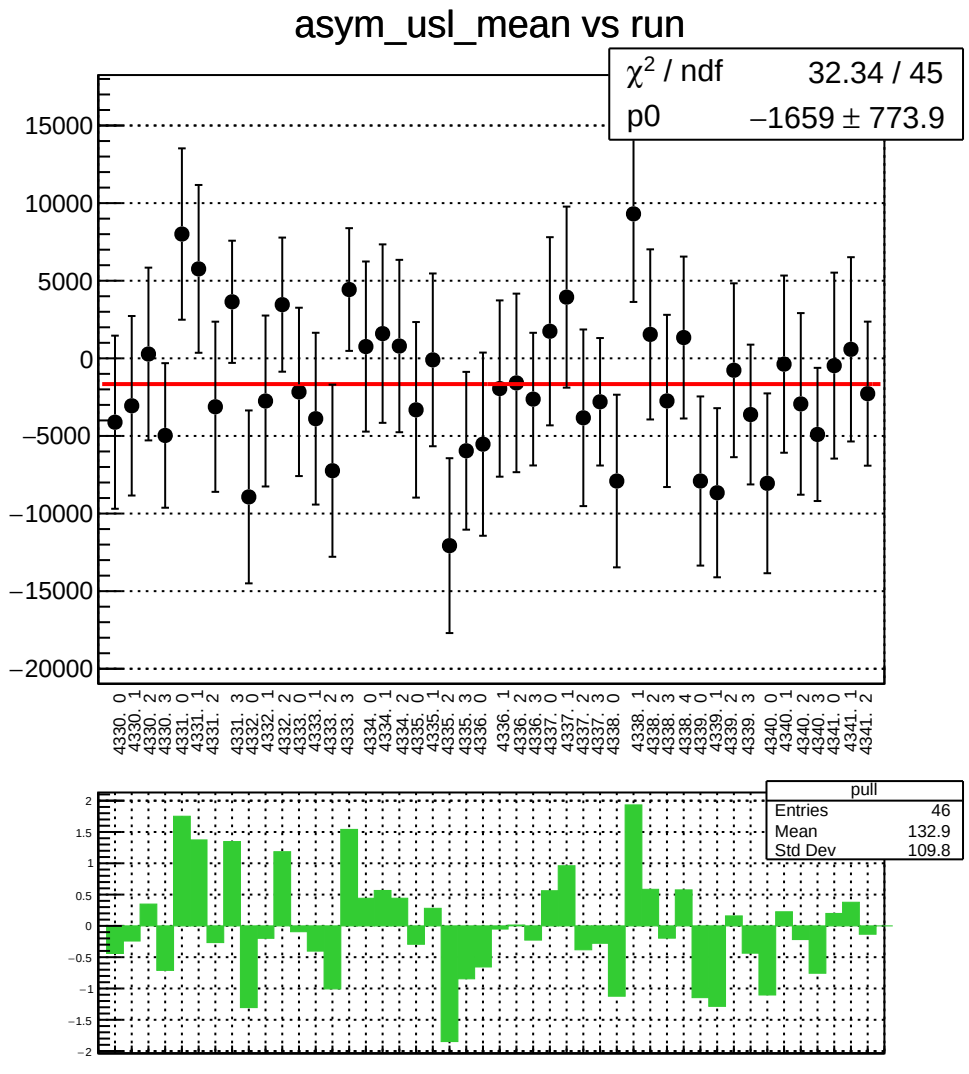

pull1D
Entries 46
Mean −0.03435
Std Dev 0.9477
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

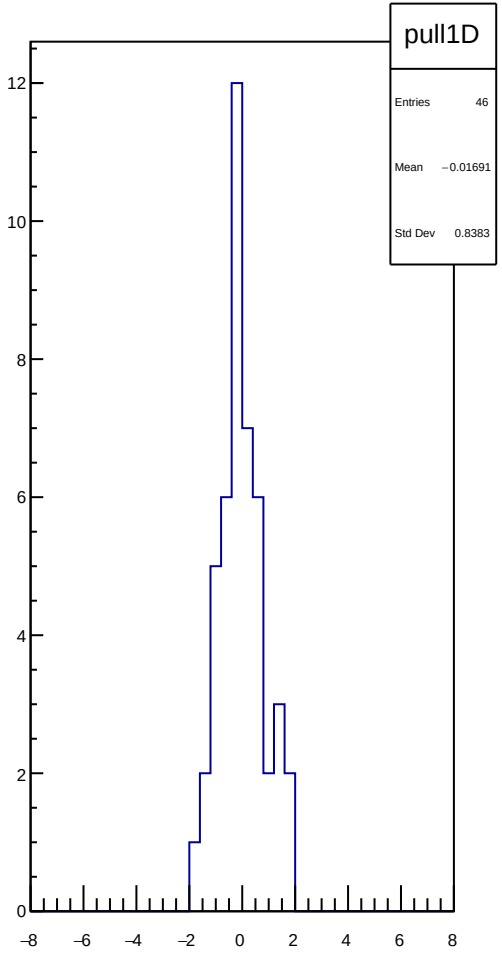

reg_asym_usl_rms vs run
χ² / ndf 75.65 / 45
p0 136.1 ± 0.1393
141
140
139
138
137
136
135
134
133
132
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

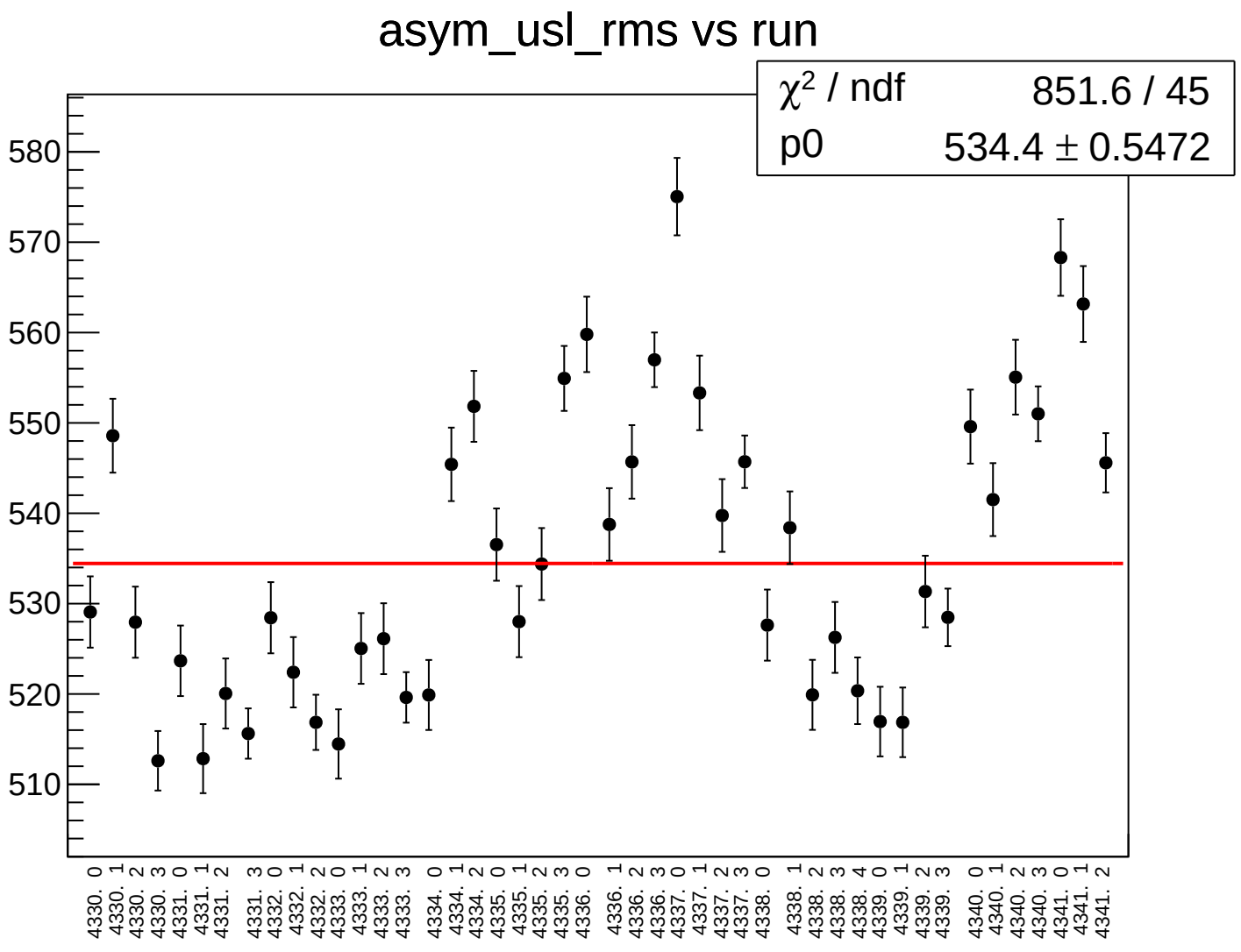

asym_usl_correction_mean vs run
χ² / ndf 33.37 / 45
p0 1147 ± 748.3
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 263.9
Std Dev 243.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

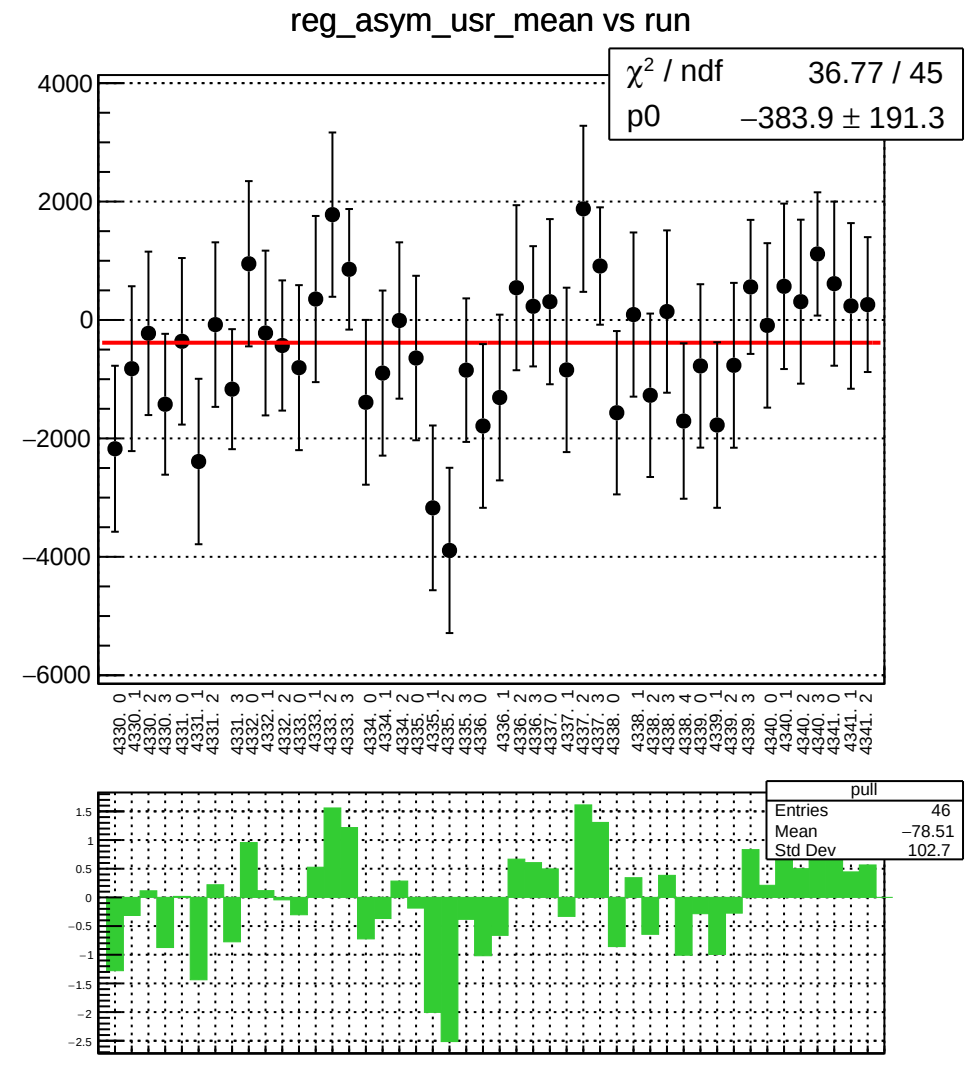

pull1D
Entries 46
Mean 0.009201
Std Dev 0.8517
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

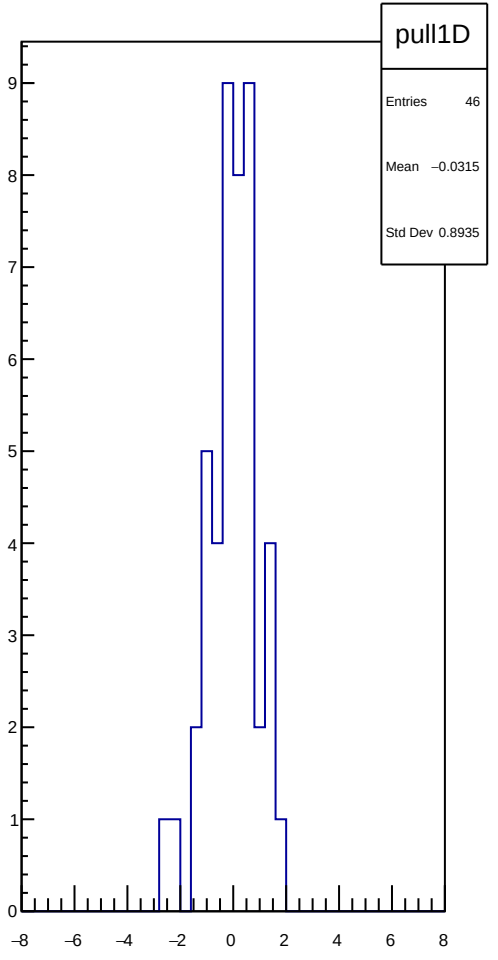

asym_usl_correction_rms vs run
χ² / ndf 967.5 / 45
p0 516.7 ± 0.5291
570
560
550
540
530
520
510
500
490
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

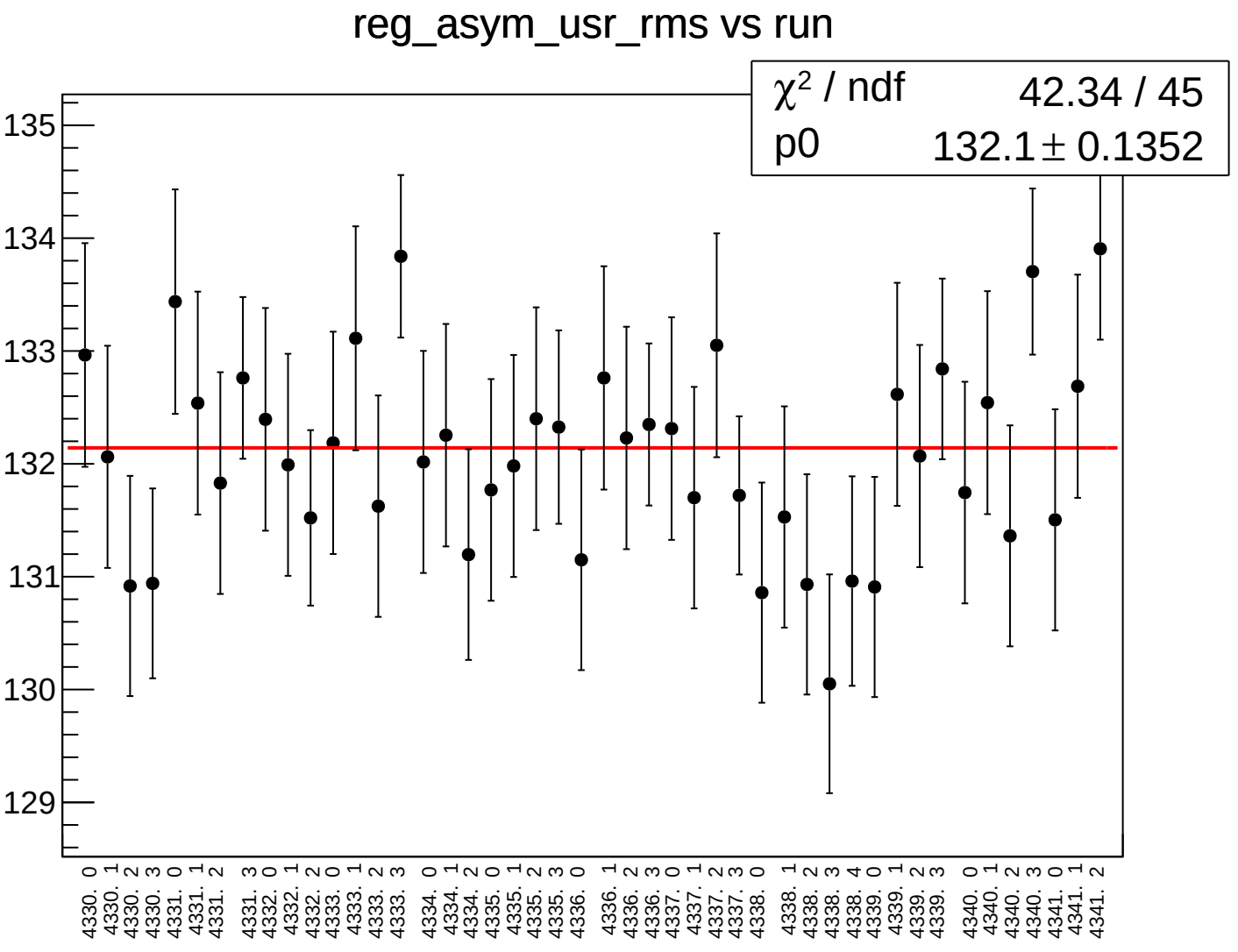

asym_usl_mean vs run
χ² / ndf 32.34 / 45
p0 −1659 ± 773.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 132.9
Std Dev 109.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

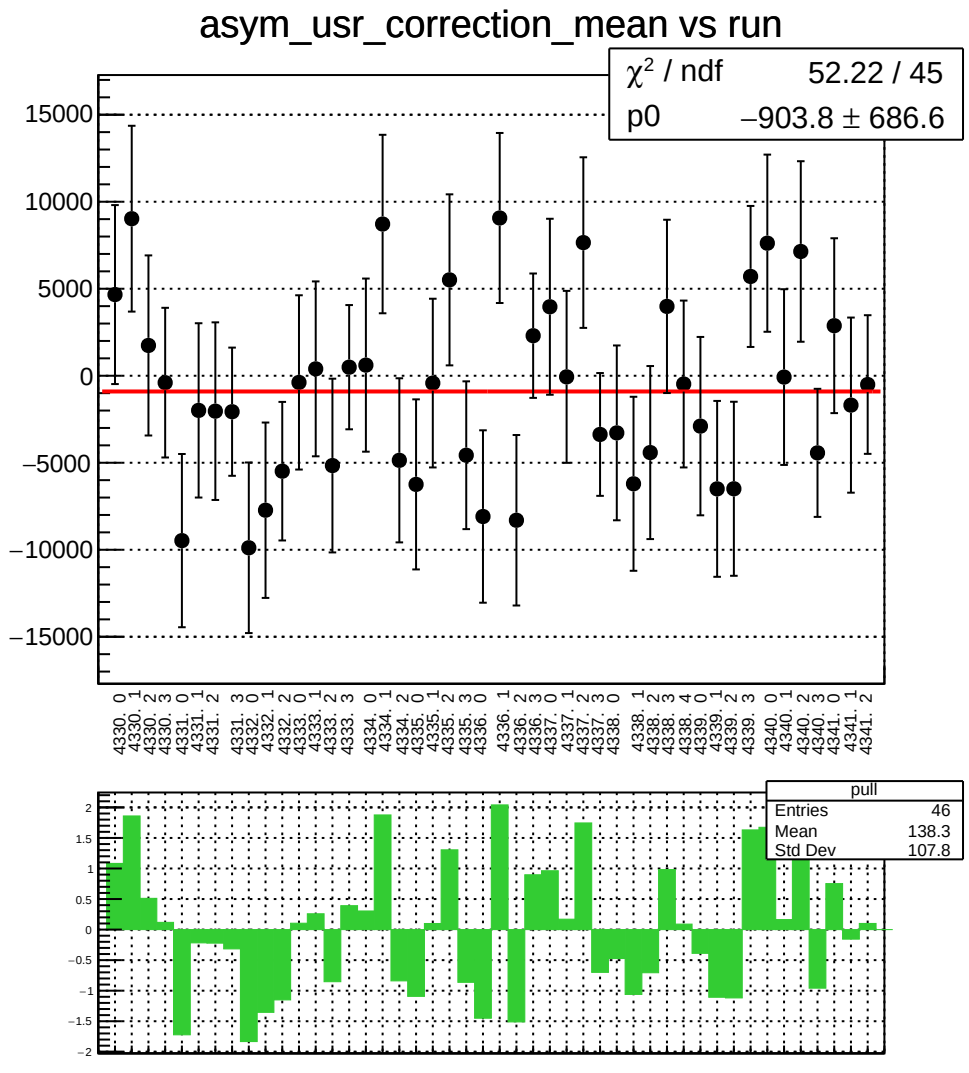

pull1D
Entries 46
Mean −0.01691
Std Dev 0.8383
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

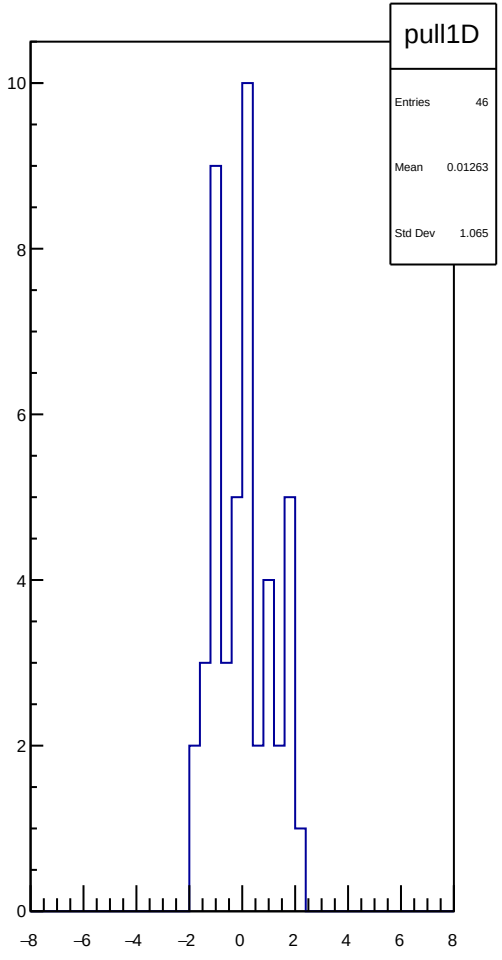

asym_usl_rms vs run
χ² / ndf 851.6 / 45
p0 534.4 ± 0.5472
580
570
560
550
540
530
520
510
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

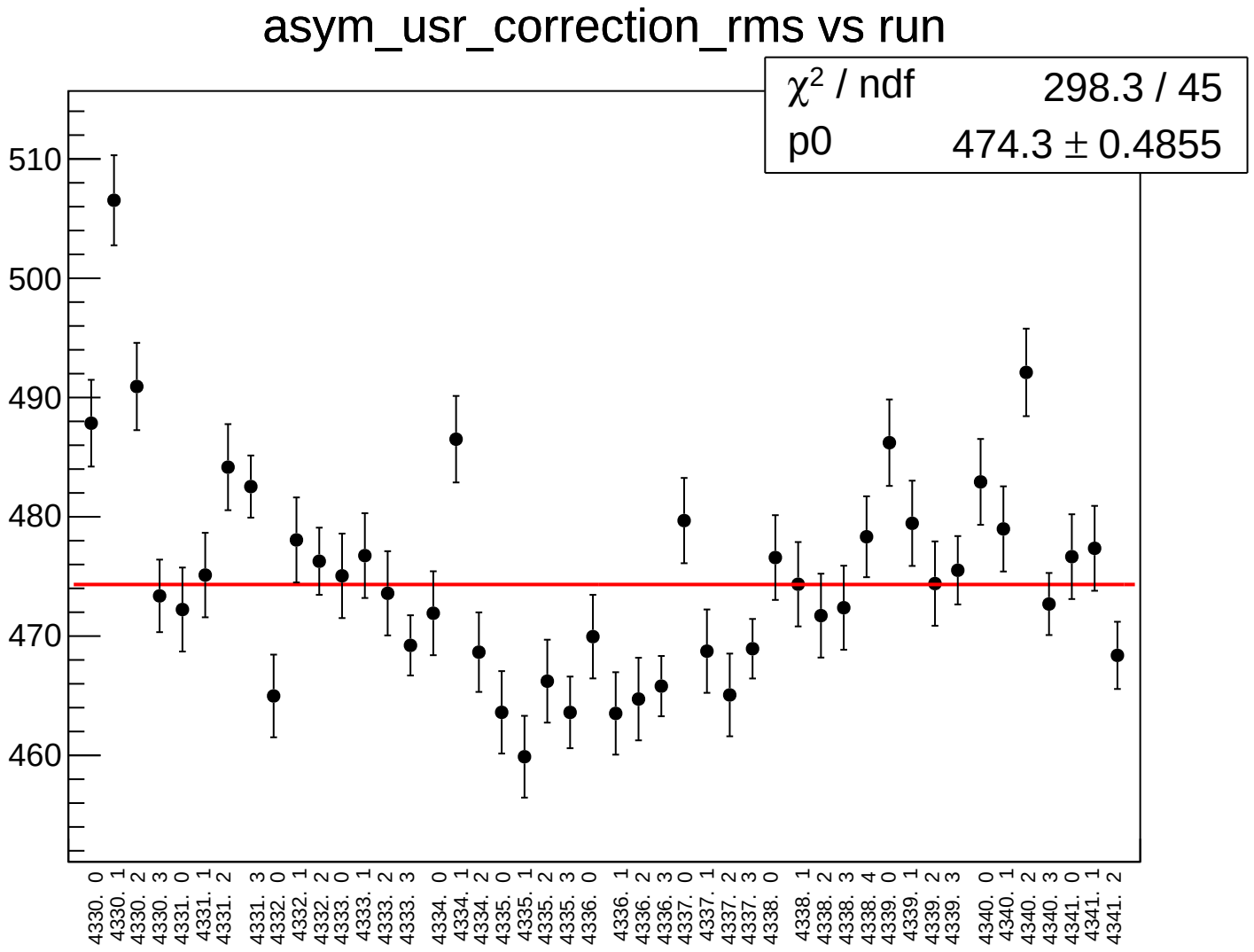

reg_asym_usr_mean vs run
χ² / ndf 36.77 / 45
p0 −383.9 ± 191.3
4000
2000
0
−2000
−4000
−6000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −78.51
Std Dev 102.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

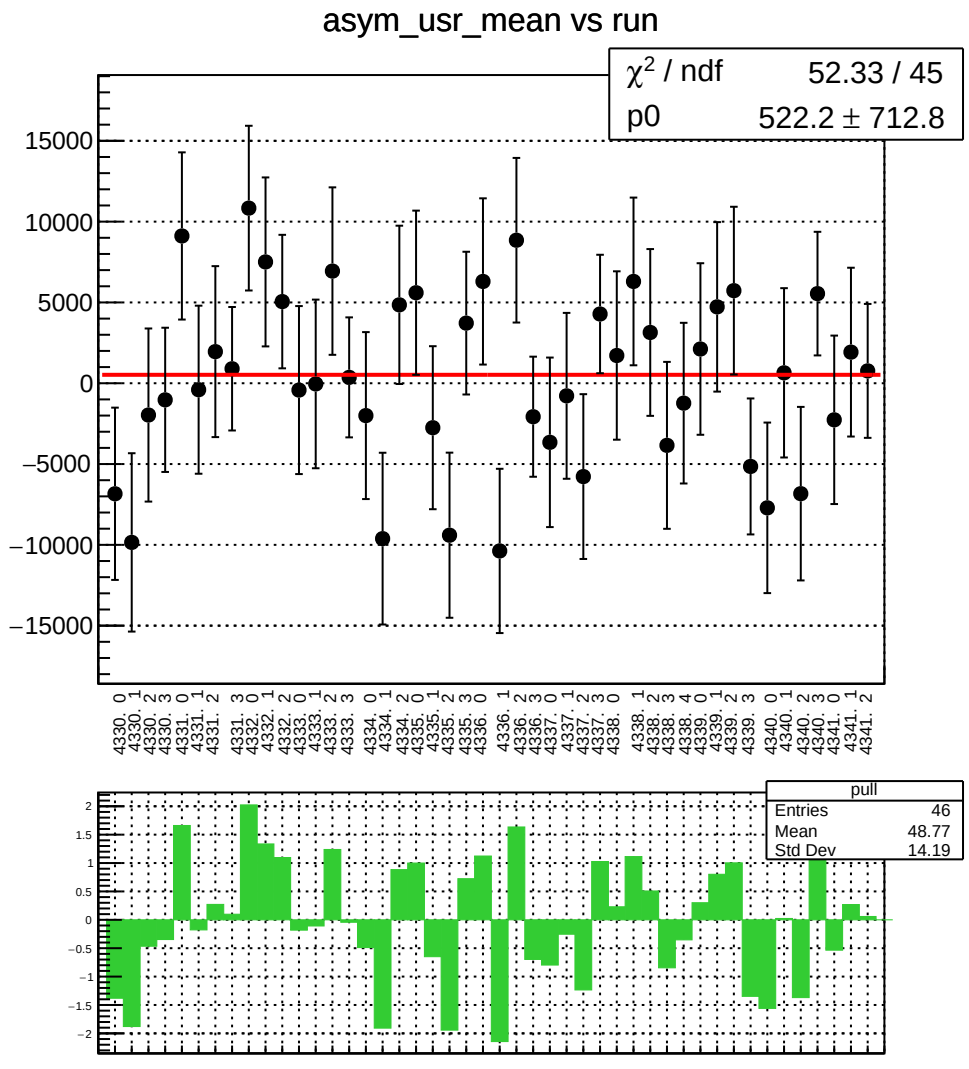

pull1D
Entries 46
Mean −0.0315
Std Dev 0.8935
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

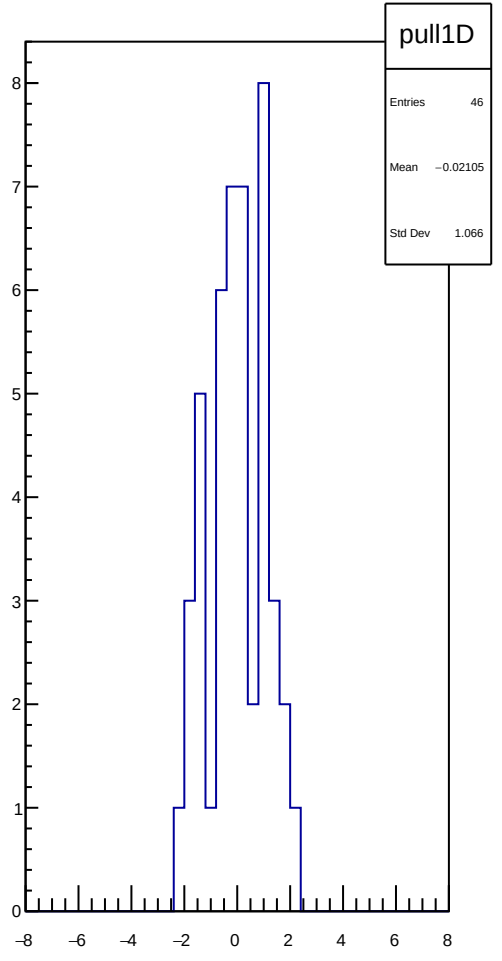

reg_asym_usr_rms vs run
χ² / ndf 42.34 / 45
p0 132.1 ± 0.1352
135
134
133
132
131
130
129
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

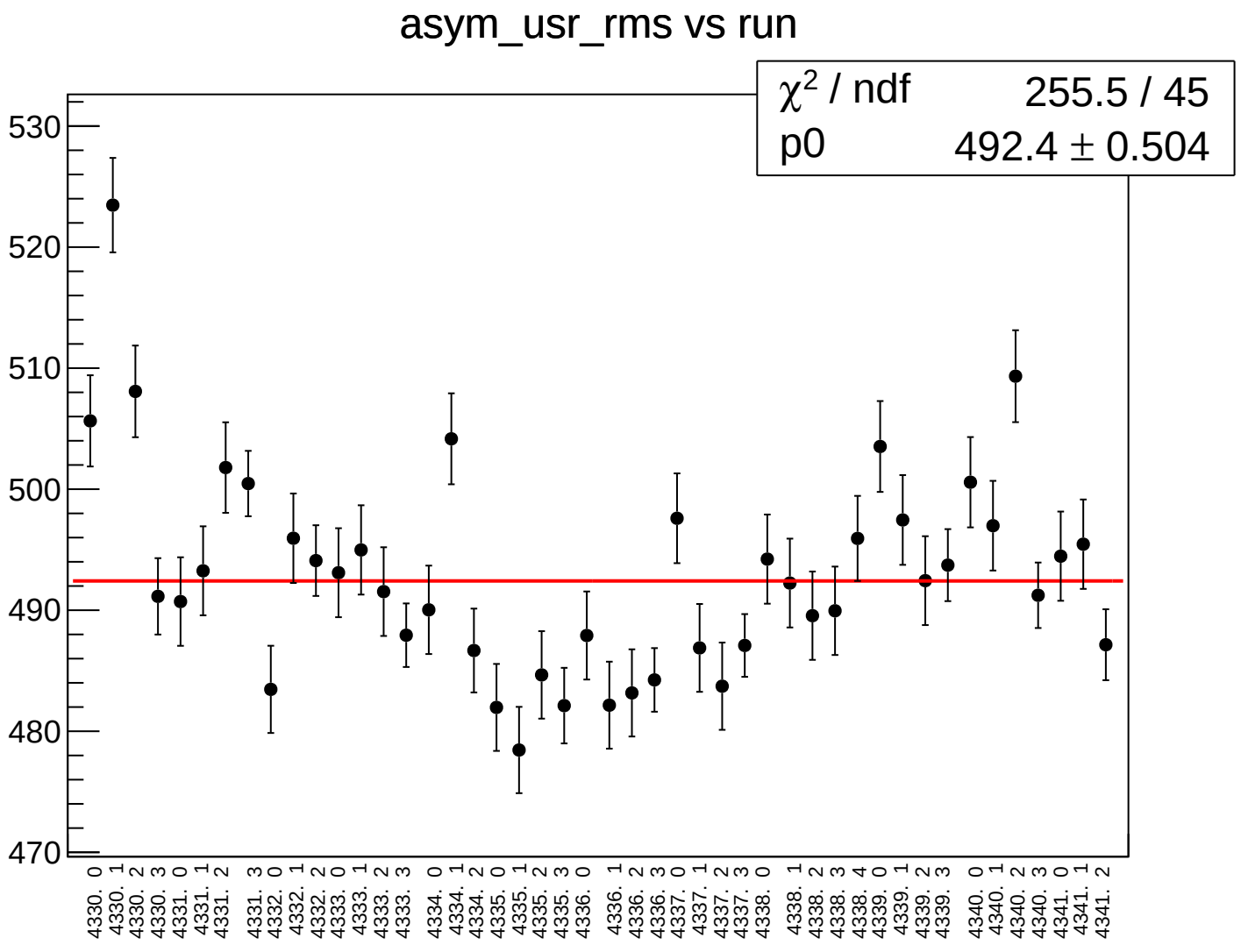

asym_usr_correction_mean vs run
χ² / ndf 52.22 / 45
p0 −903.8 ± 686.6
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 138.3
Std Dev 107.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

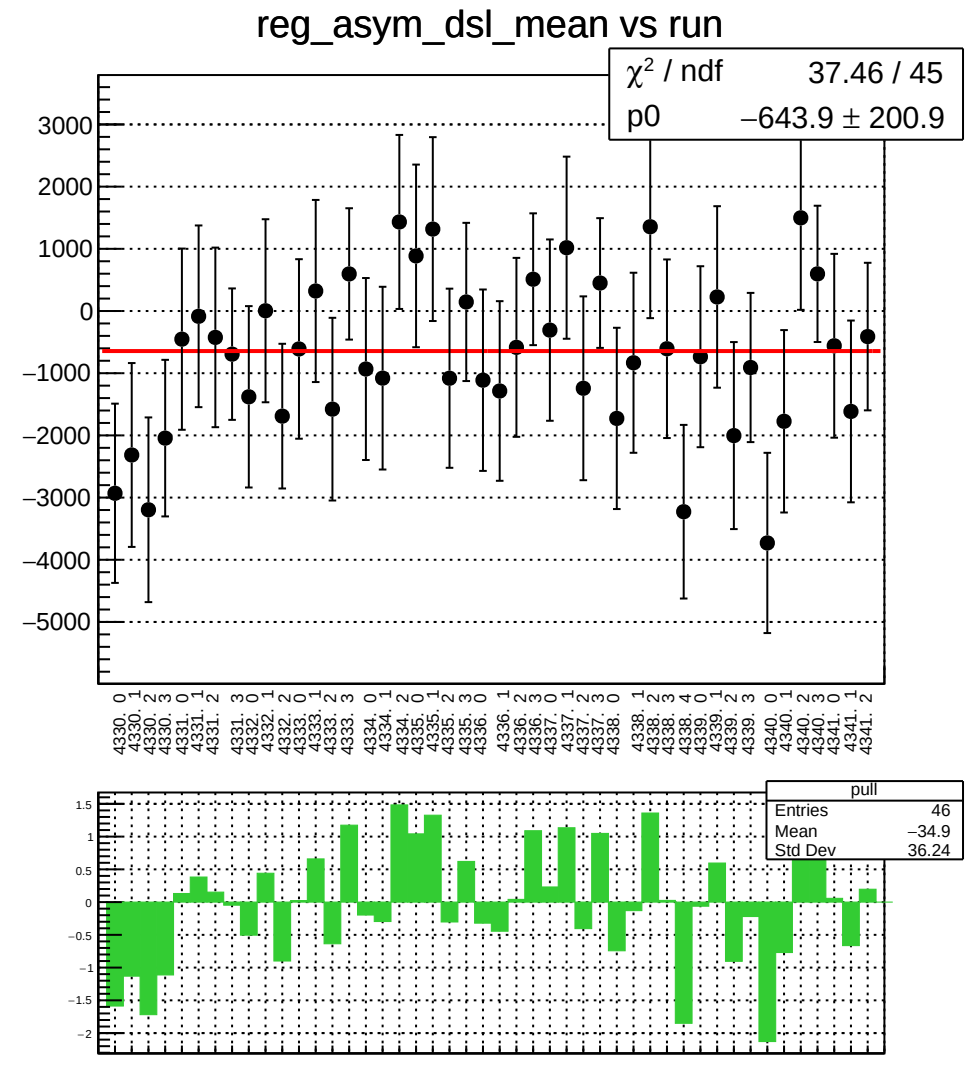

pull1D
Entries 46
Mean 0.01263
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

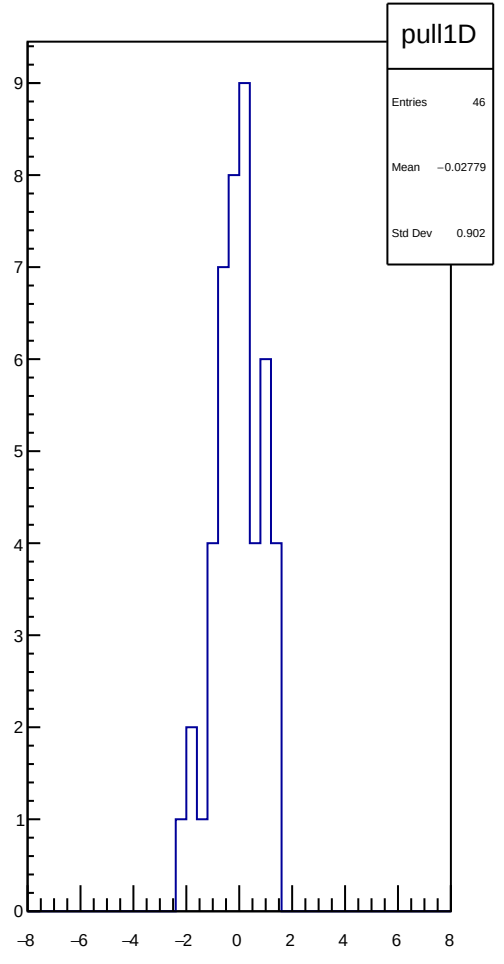

asym_usr_correction_rms vs run
χ² / ndf 298.3 / 45
p0 474.3 ± 0.4855
510
500
490
480
470
460
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

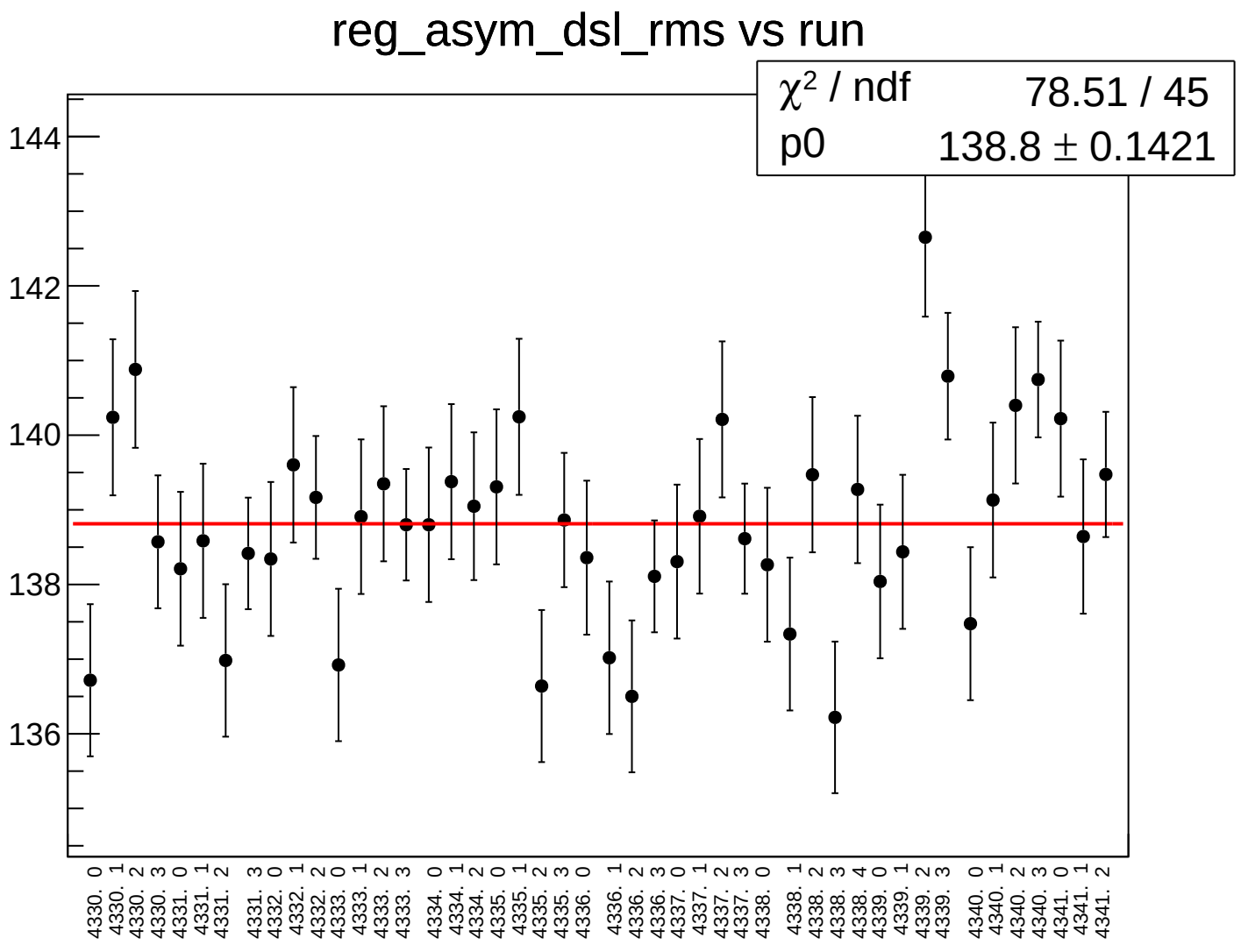

asym_usr_mean vs run
χ² / ndf 52.33 / 45
p0 522.2 ± 712.8
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 48.77
Std Dev 14.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

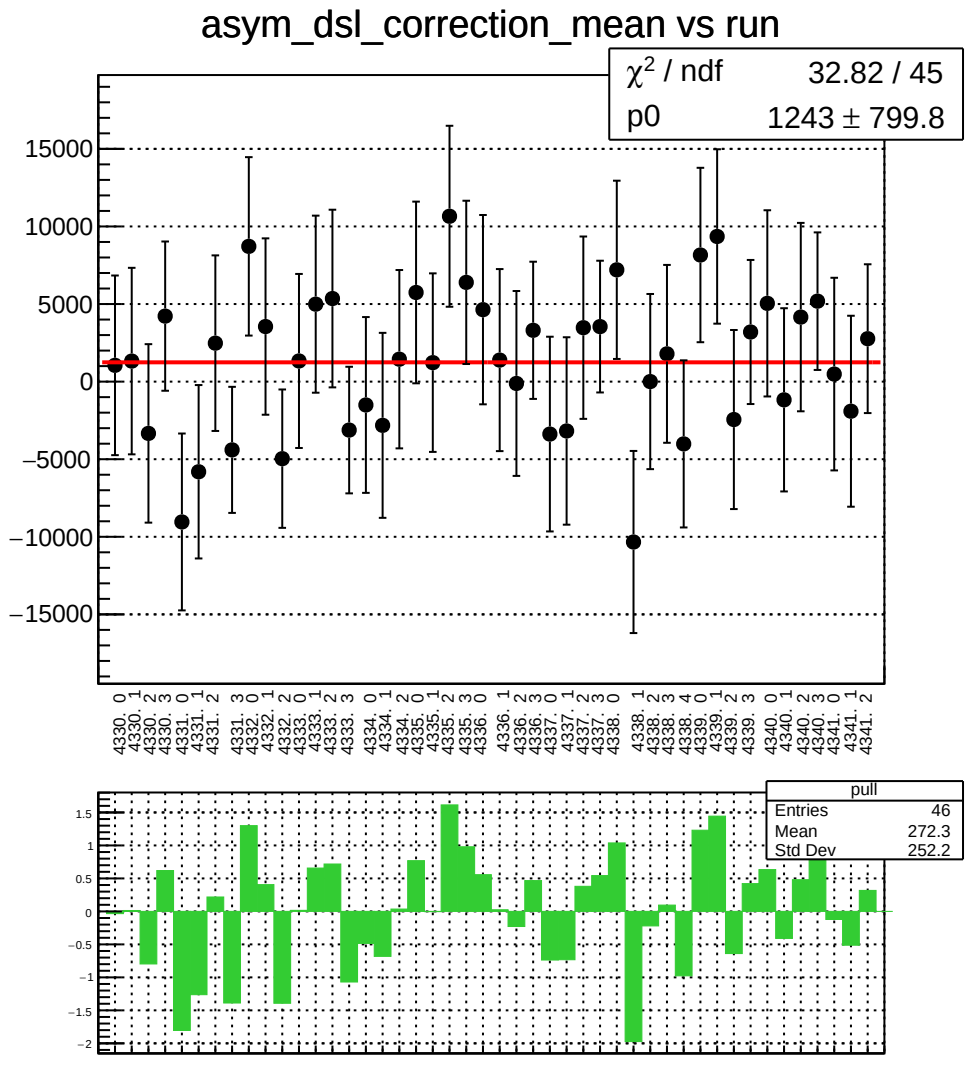

pull1D
Entries 46
Mean −0.02105
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

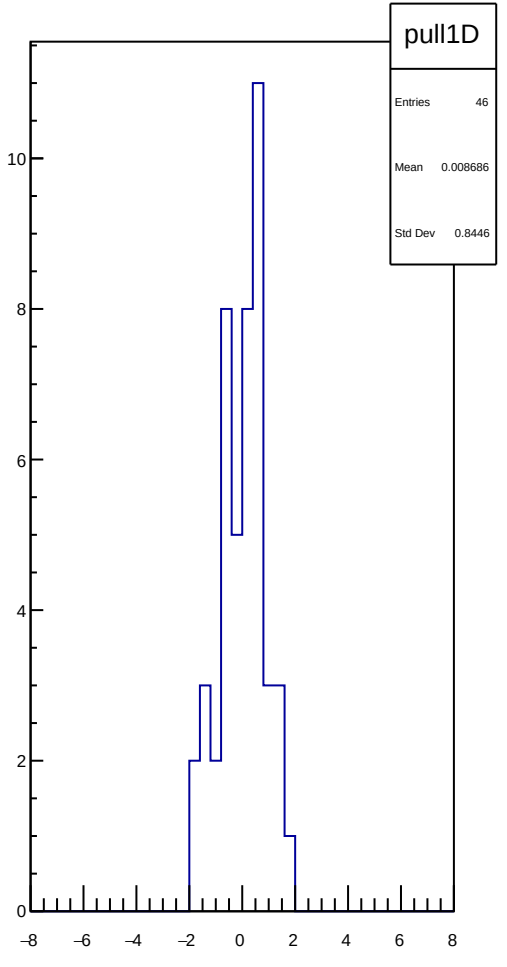

asym_usr_rms vs run
χ² / ndf 255.5 / 45
p0 492.4 ± 0.504
530
520
510
500
490
480
470
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

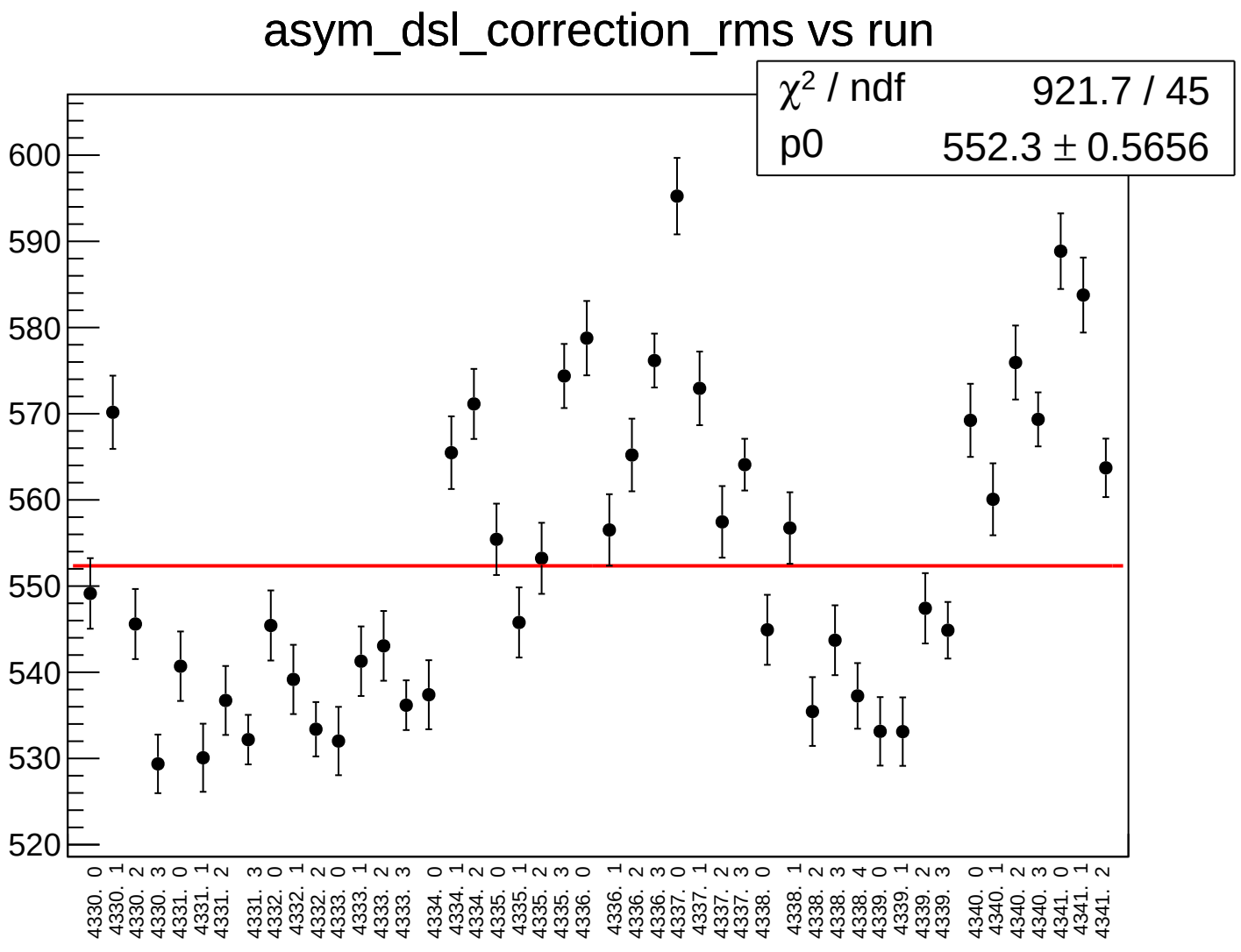

reg_asym_dsl_mean vs run
χ² / ndf 37.46 / 45
p0 −643.9 ± 200.9
pull
Entries 46
Mean −34.9
Std Dev 36.24

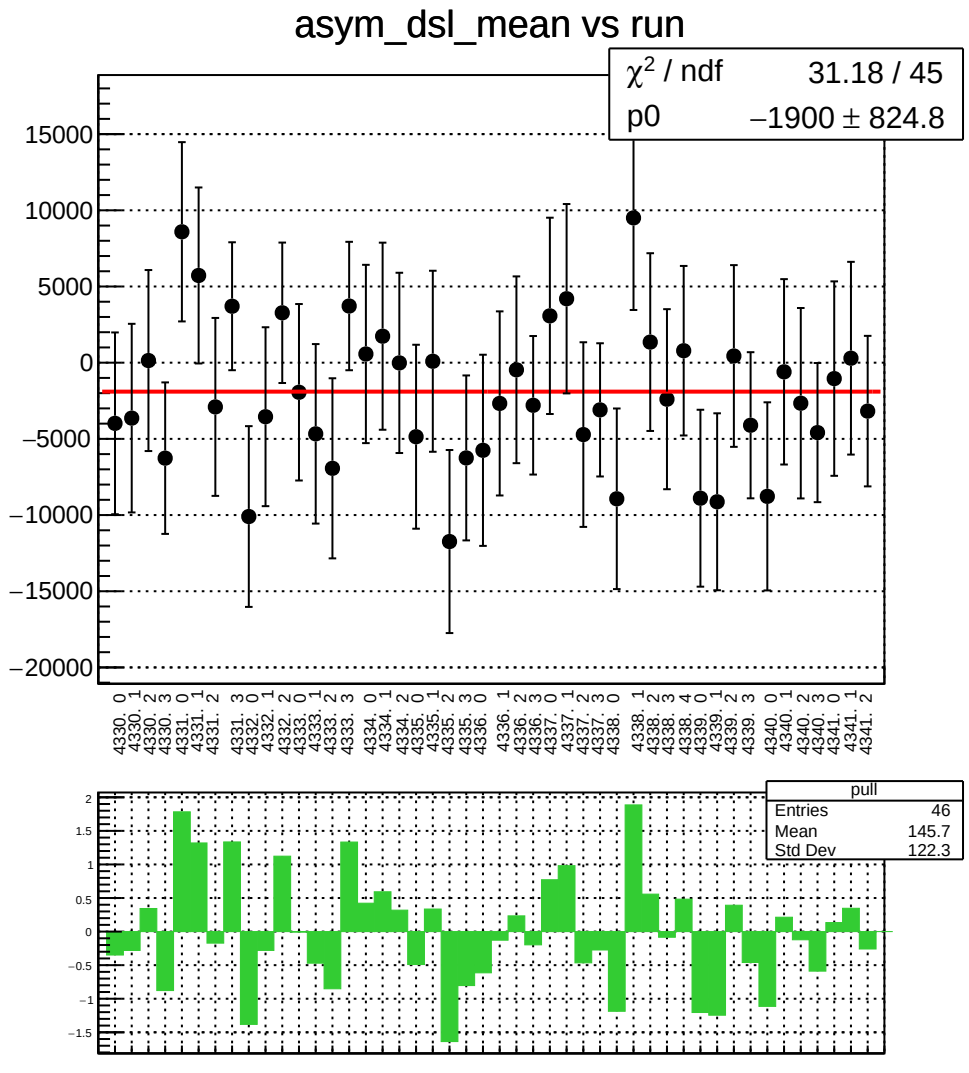

pull1D
Entries 46
Mean −0.02779
Std Dev 0.902

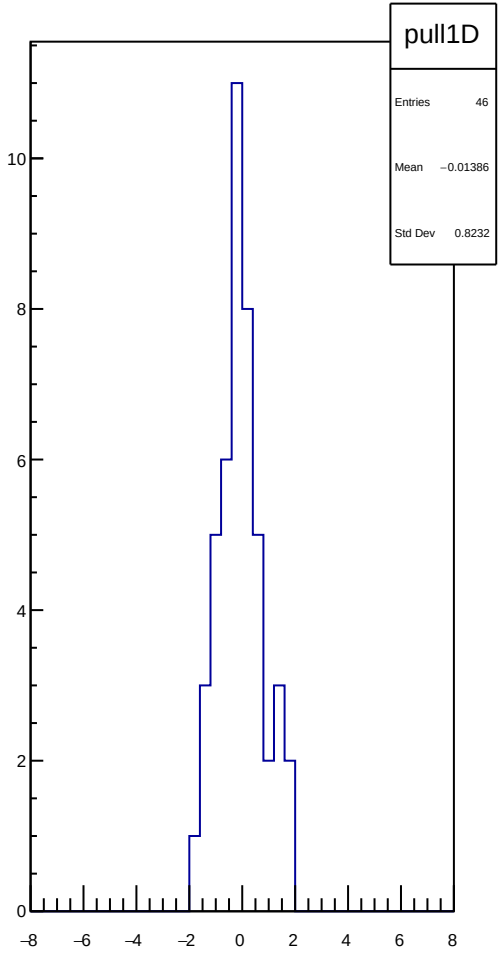

reg_asym_dsl_rms vs run
χ² / ndf 78.51 / 45
p0 138.8 ± 0.1421
144
142
140
138
136
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

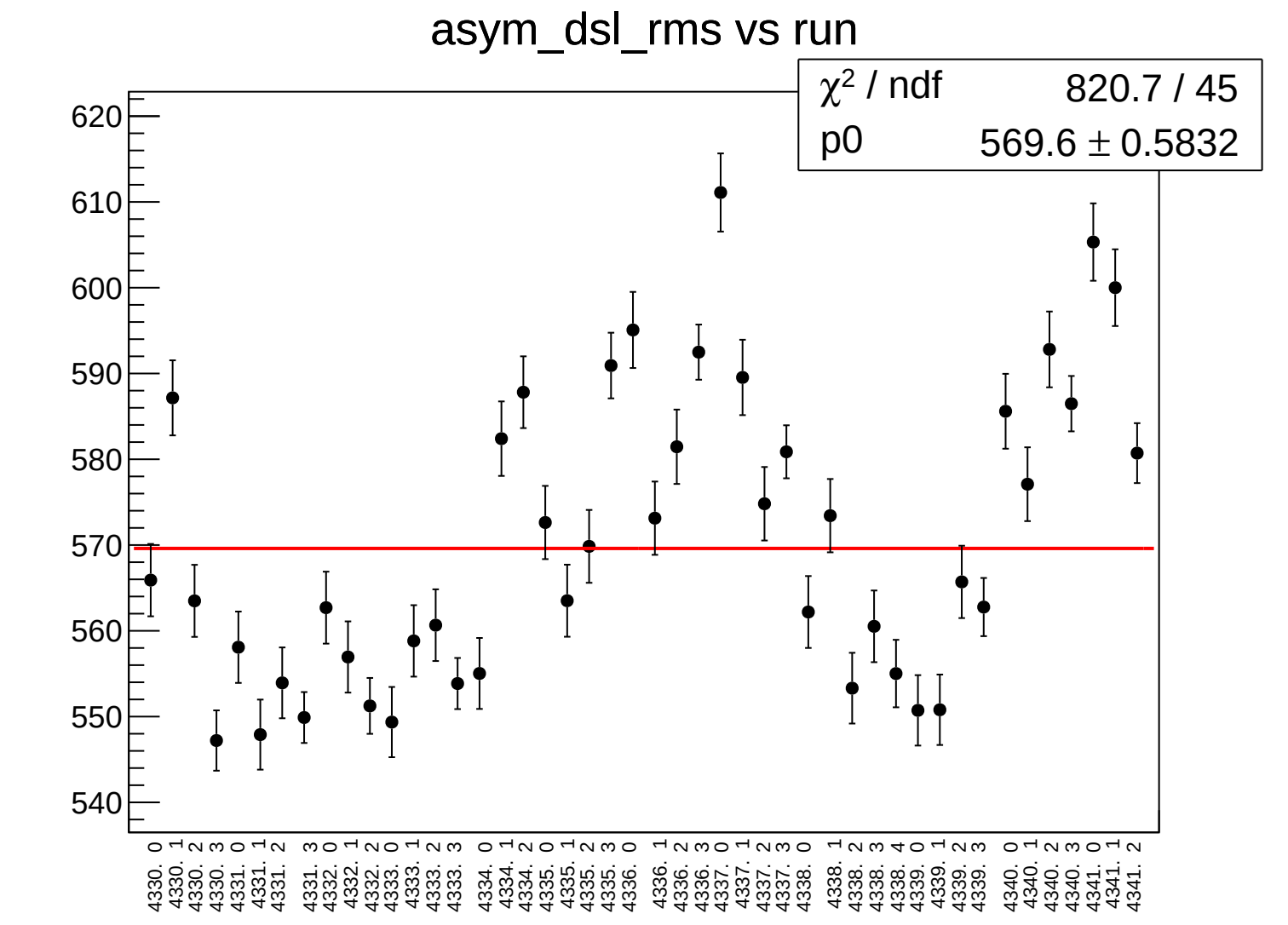

asym_dsl_correction_mean vs run
χ² / ndf 32.82 / 45
p0 1243 ± 799.8
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 272.3
Std Dev 252.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

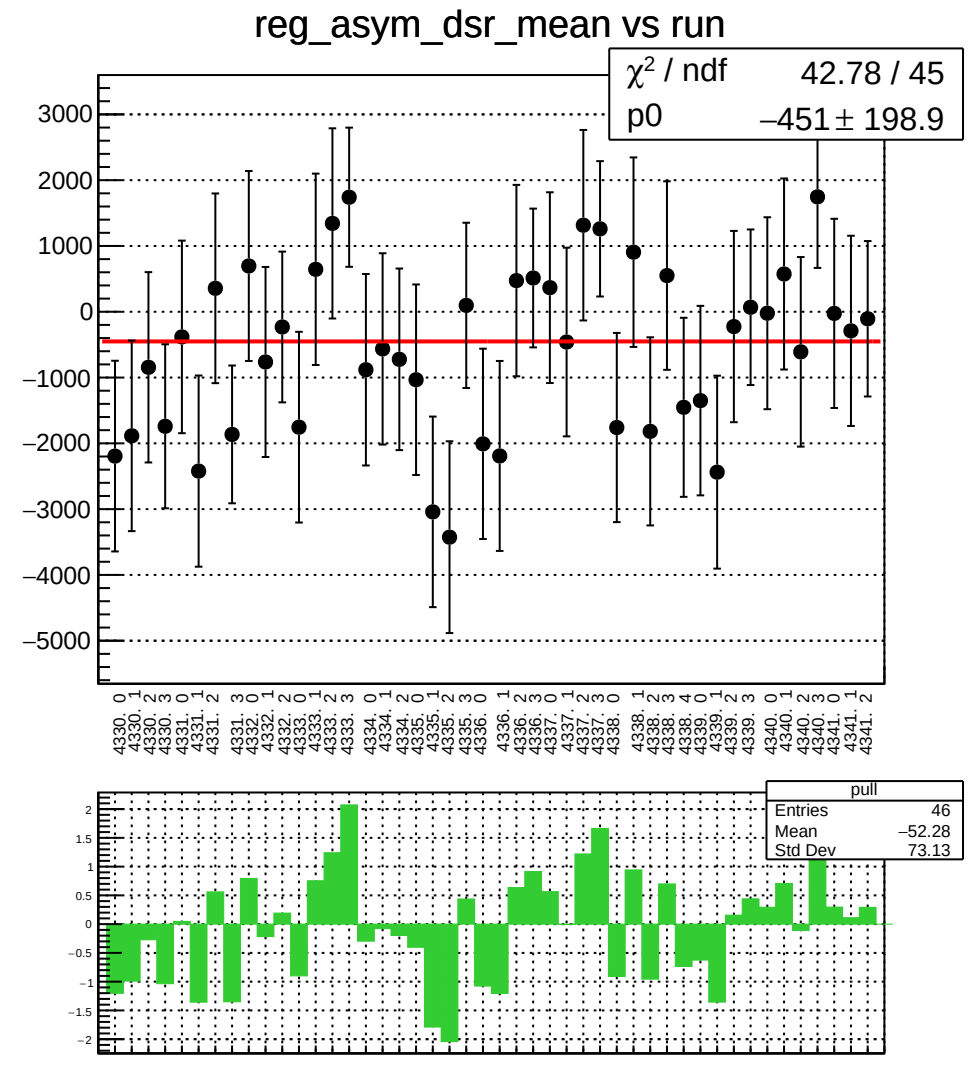

pull1D
Entries 46
Mean 0.008686
Std Dev 0.8446
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

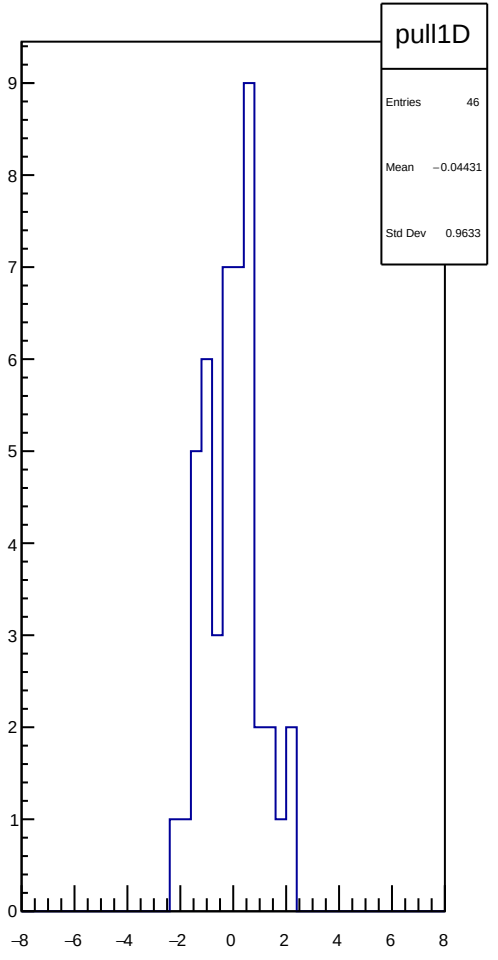

asym_dsl_correction_rms vs run
χ^2 / ndf 921.7 / 45
p0 552.3 ± 0.5656
600
590
580
570
560
550
540
530
520
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

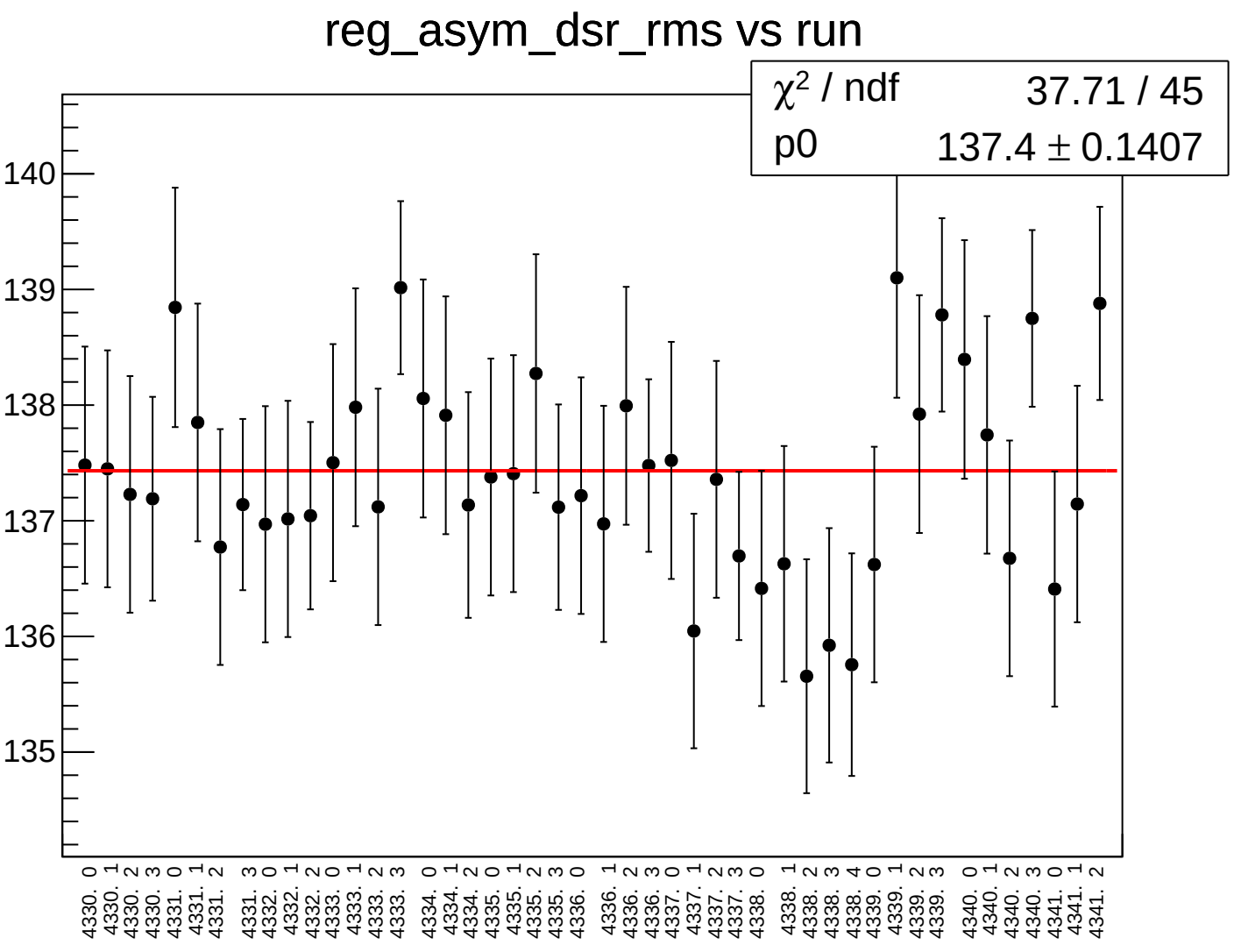

asym_dsl_mean vs run
χ^2 / ndf 31.18 / 45
p0 −1900 ± 824.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 145.7
Std Dev 122.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

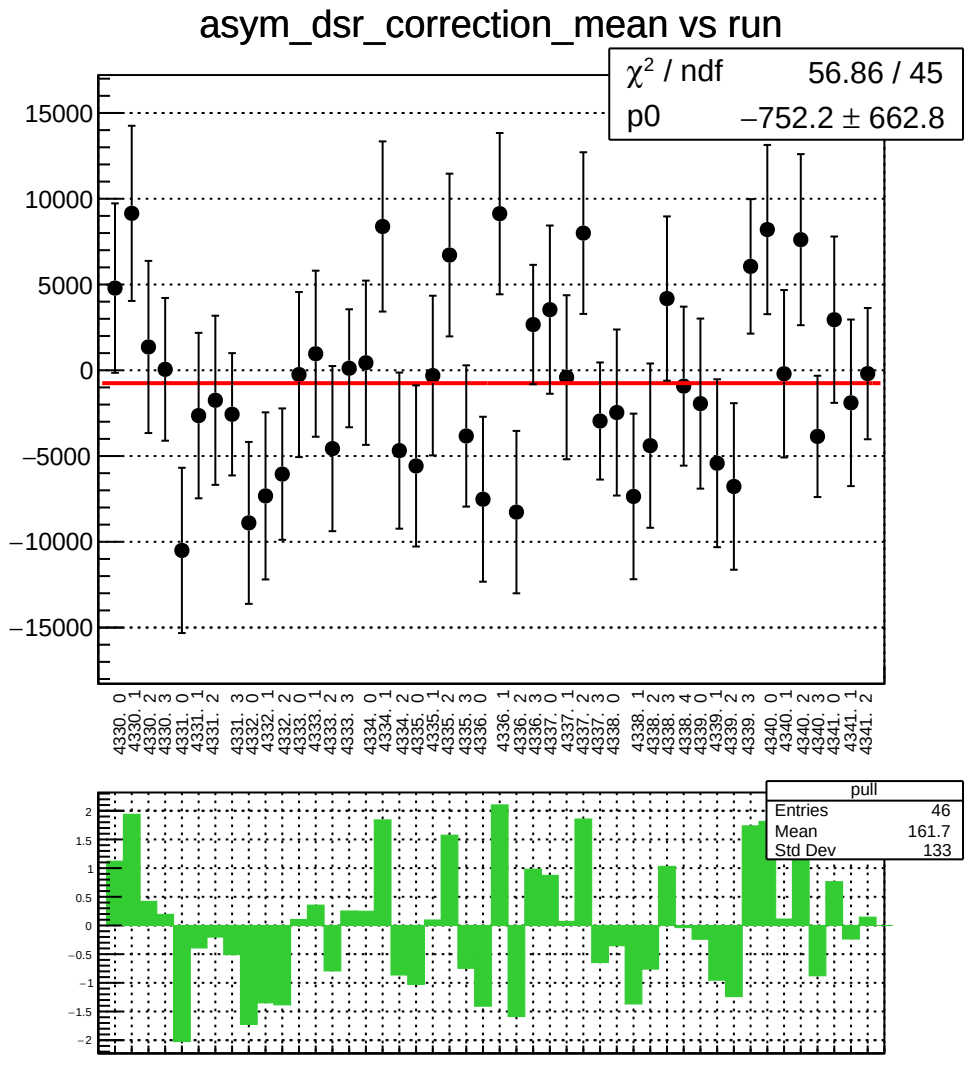

pull1D
Entries 46
Mean −0.01386
Std Dev 0.8232
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

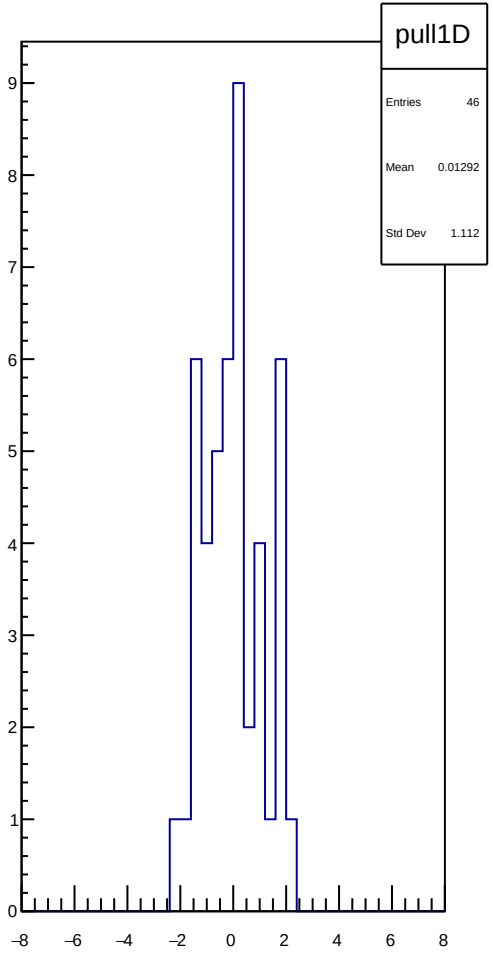

asym_dsl_rms vs run
χ² / ndf 820.7 / 45
p0 569.6 ± 0.5832
620
610
600
590
580
570
560
550
540
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

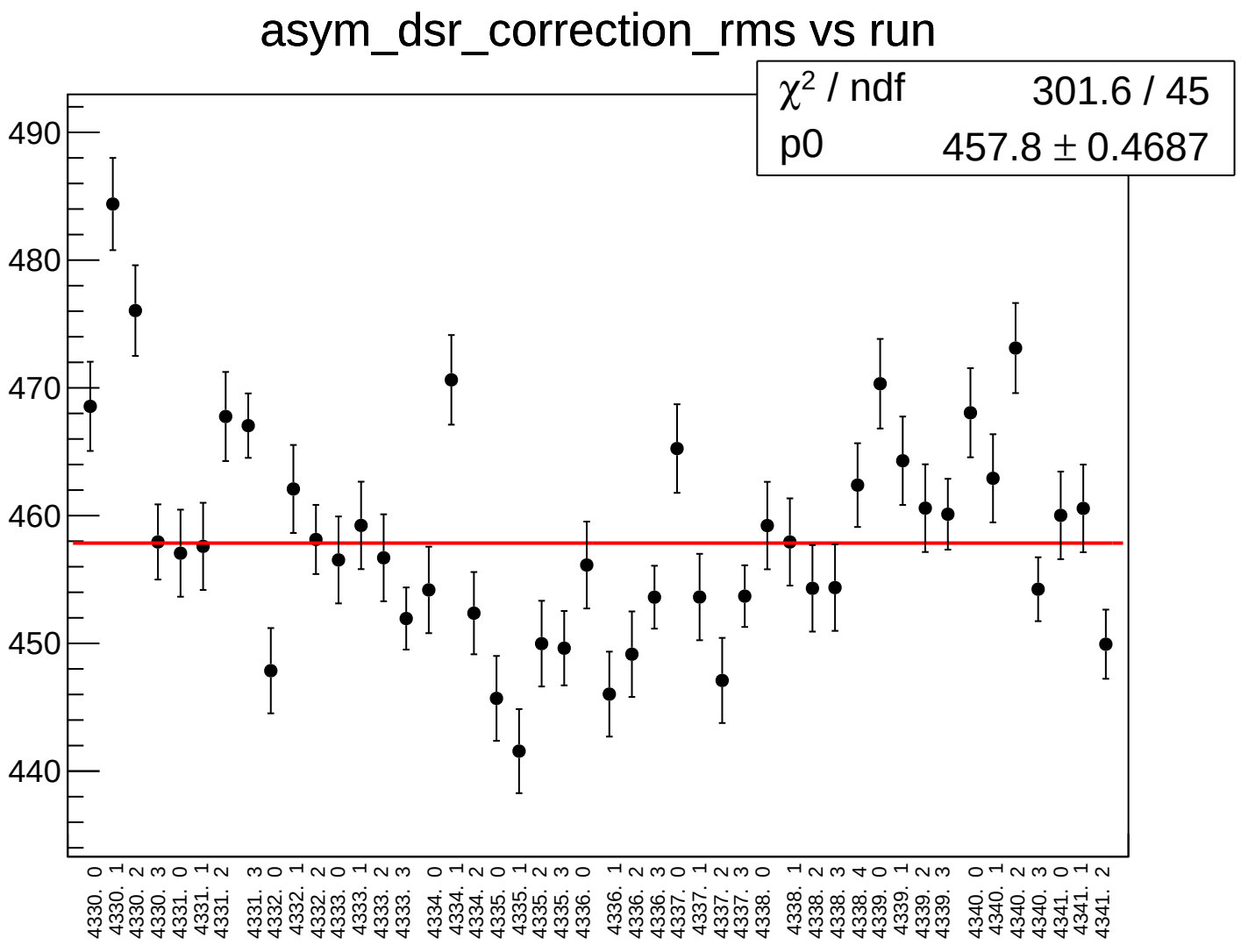

reg_asym_dsr_mean vs run
χ² / ndf 42.78 / 45
p0 −451 ± 198.9
pull
Entries 46
Mean −52.28
Std Dev 73.13

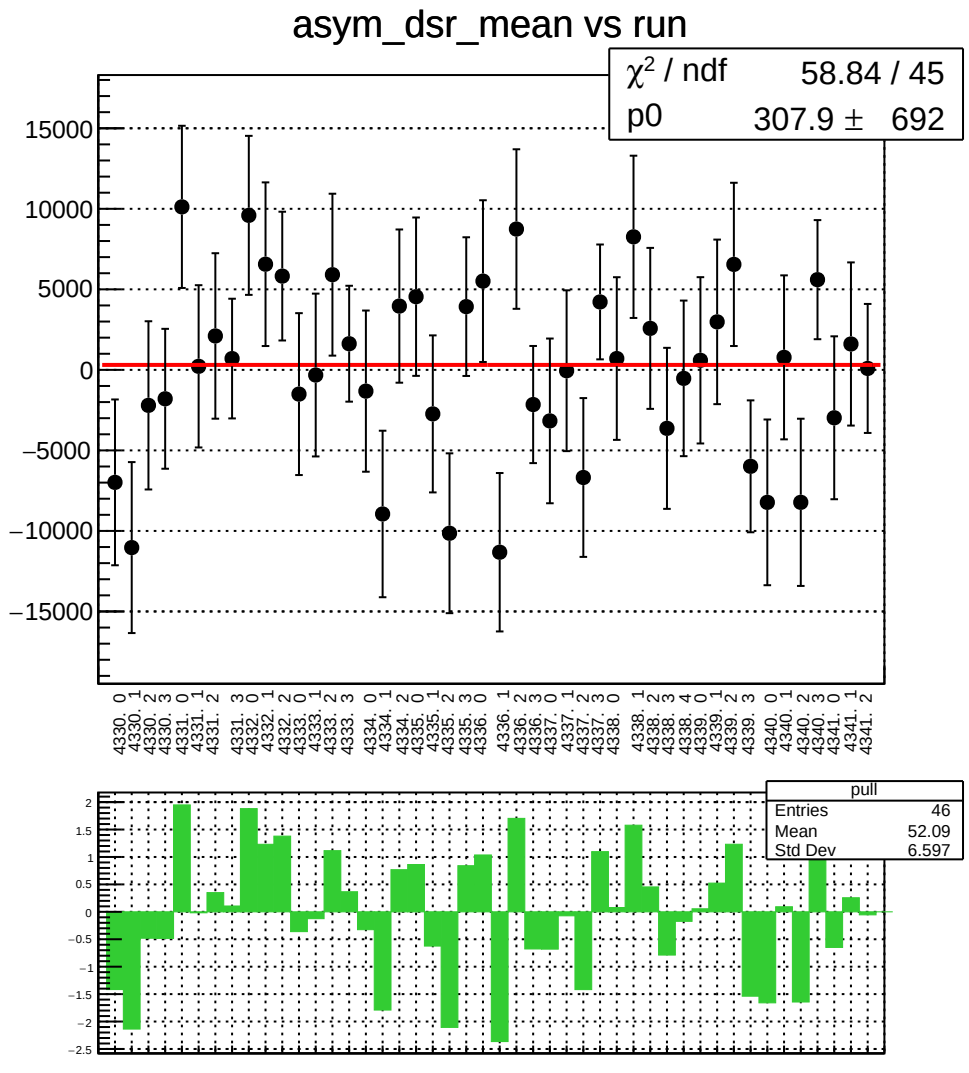

pull1D
Entries 46
Mean −0.04431
Std Dev 0.9633

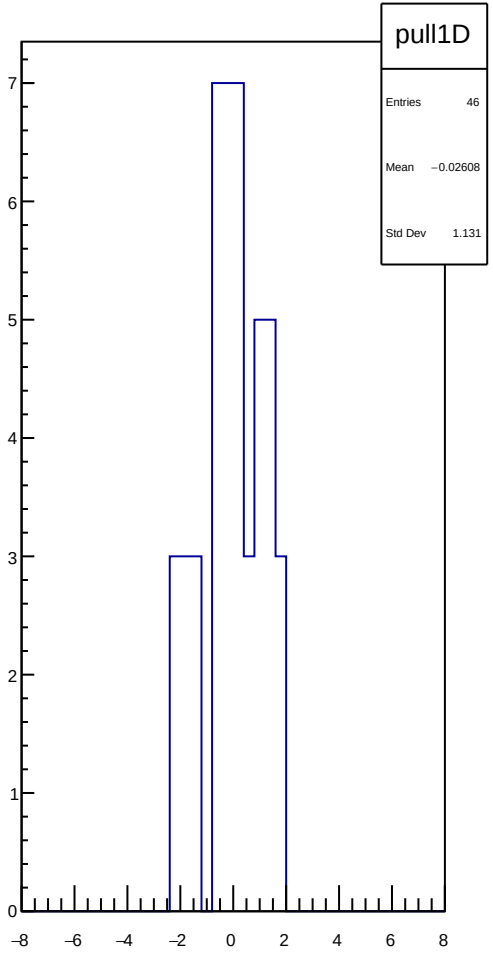

reg_asym_dsr_rms vs run
χ² / ndf 37.71 / 45
p0 137.4 ± 0.1407
140
139
138
137
136
135
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

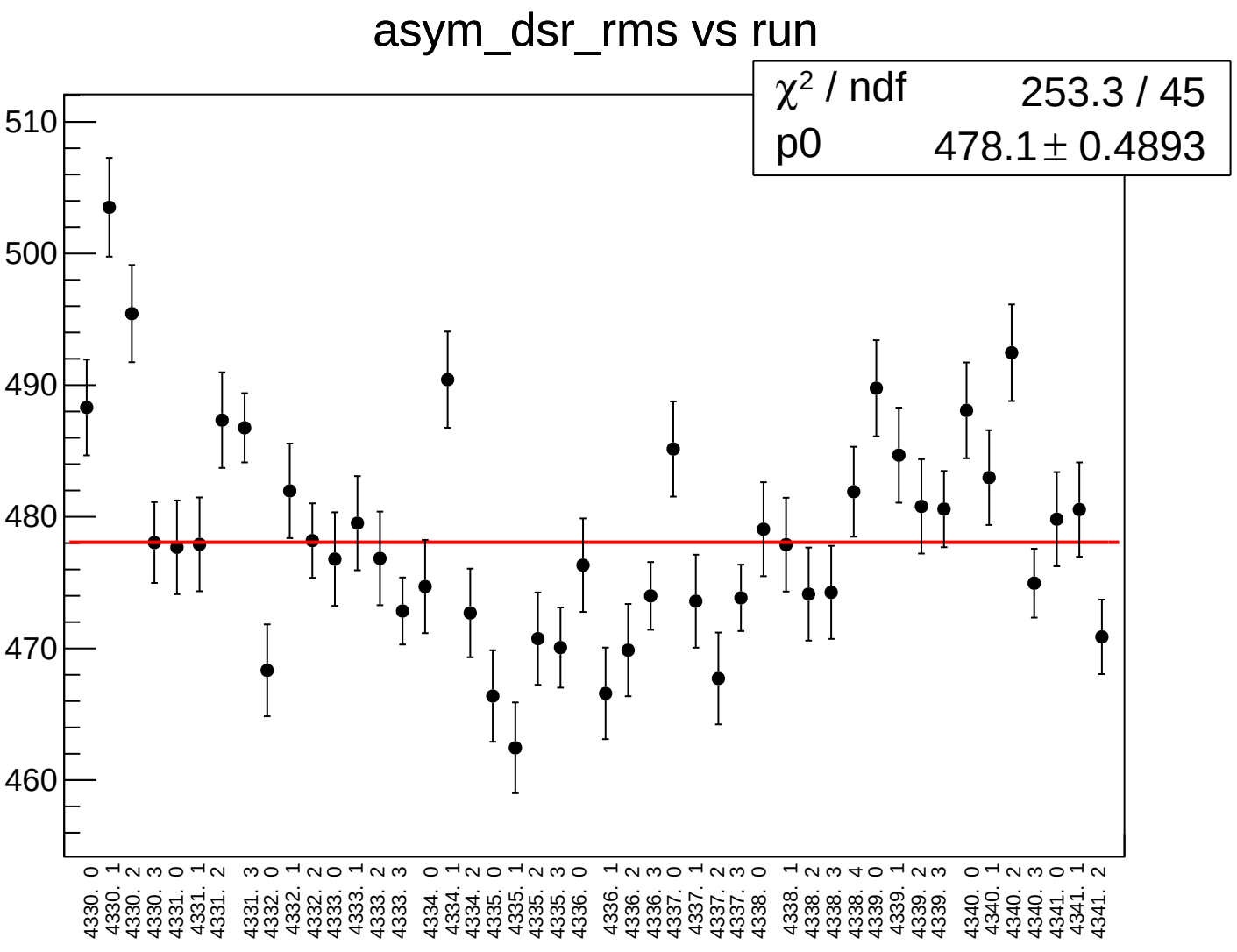

asym_dsr_correction_mean vs run
χ² / ndf 56.86 / 45
p0 −752.2 ± 662.8
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 161.7
Std Dev 133
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

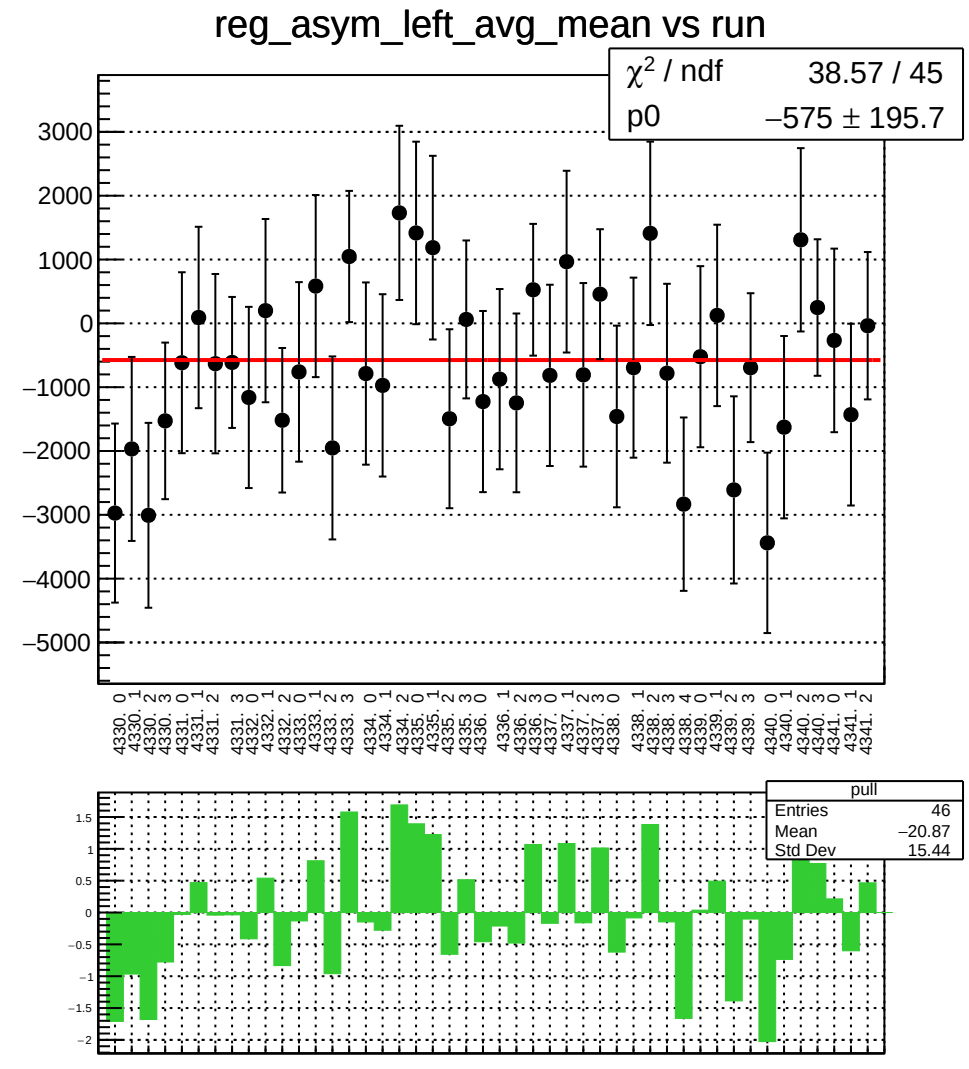

pull1D
Entries 46
Mean 0.01292
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

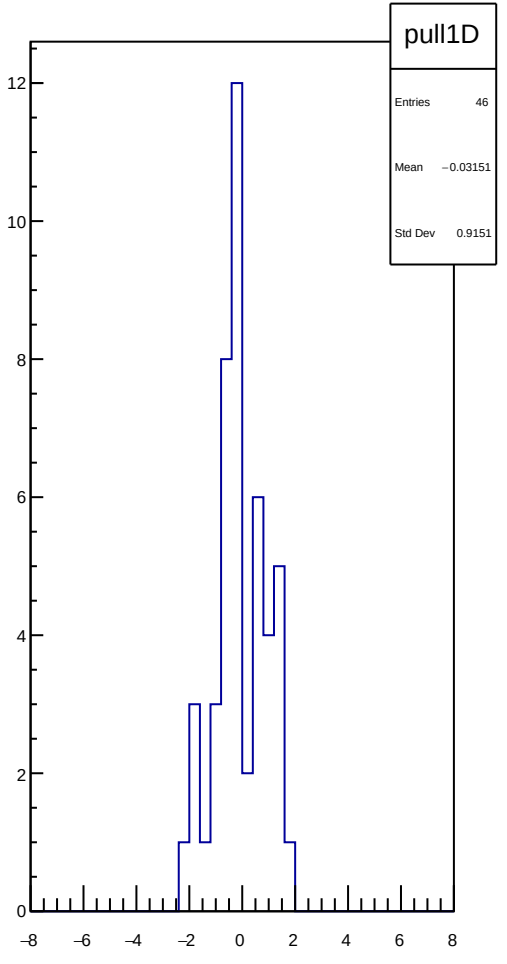

asym_dsr_correction_rms vs run
χ² / ndf 301.6 / 45
p0 457.8 ± 0.4687
490
480
470
460
450
440
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

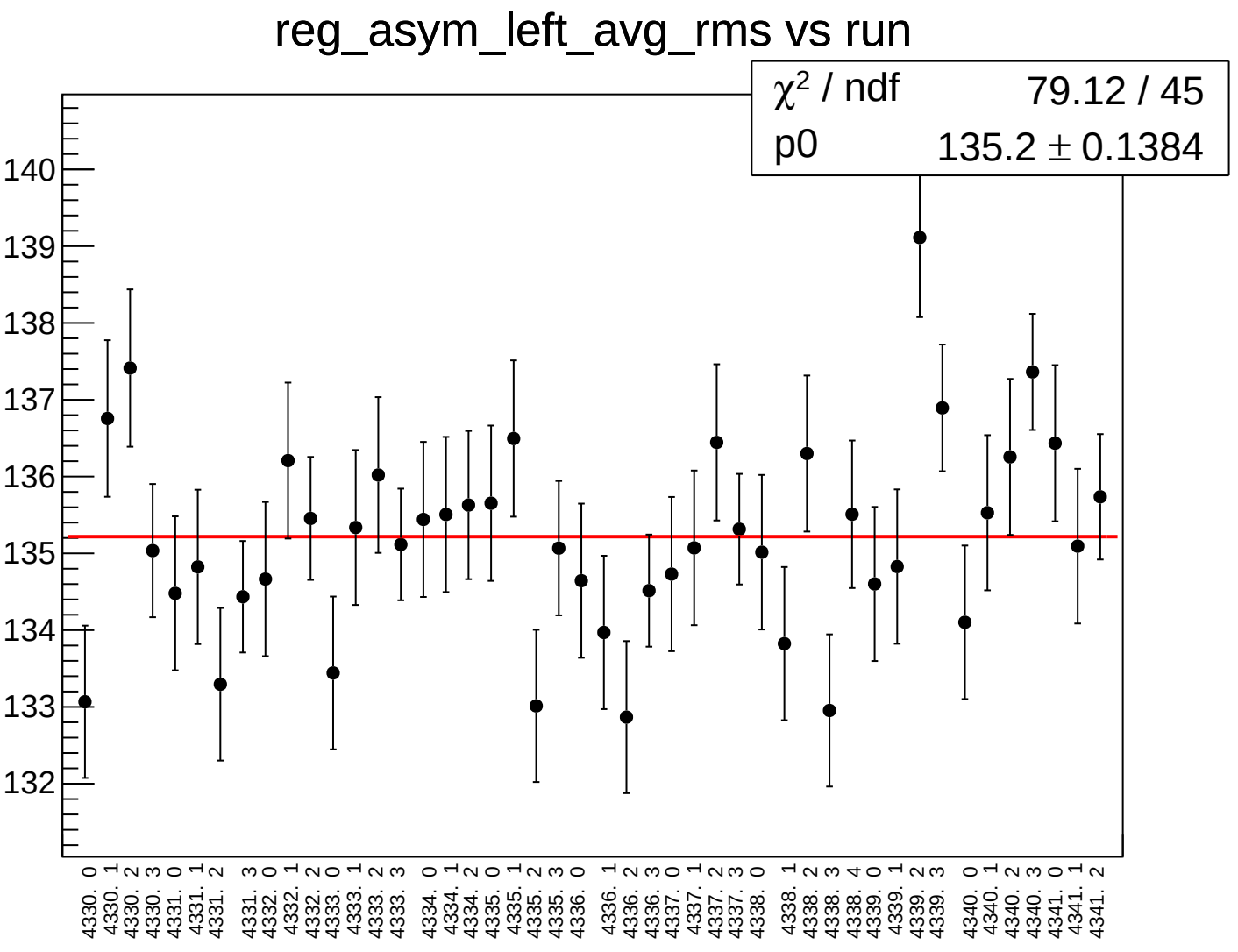

asym_dsr_mean vs run
χ² / ndf 58.84 / 45
p0 307.9 ± 692
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 52.09
Std Dev 6.597
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

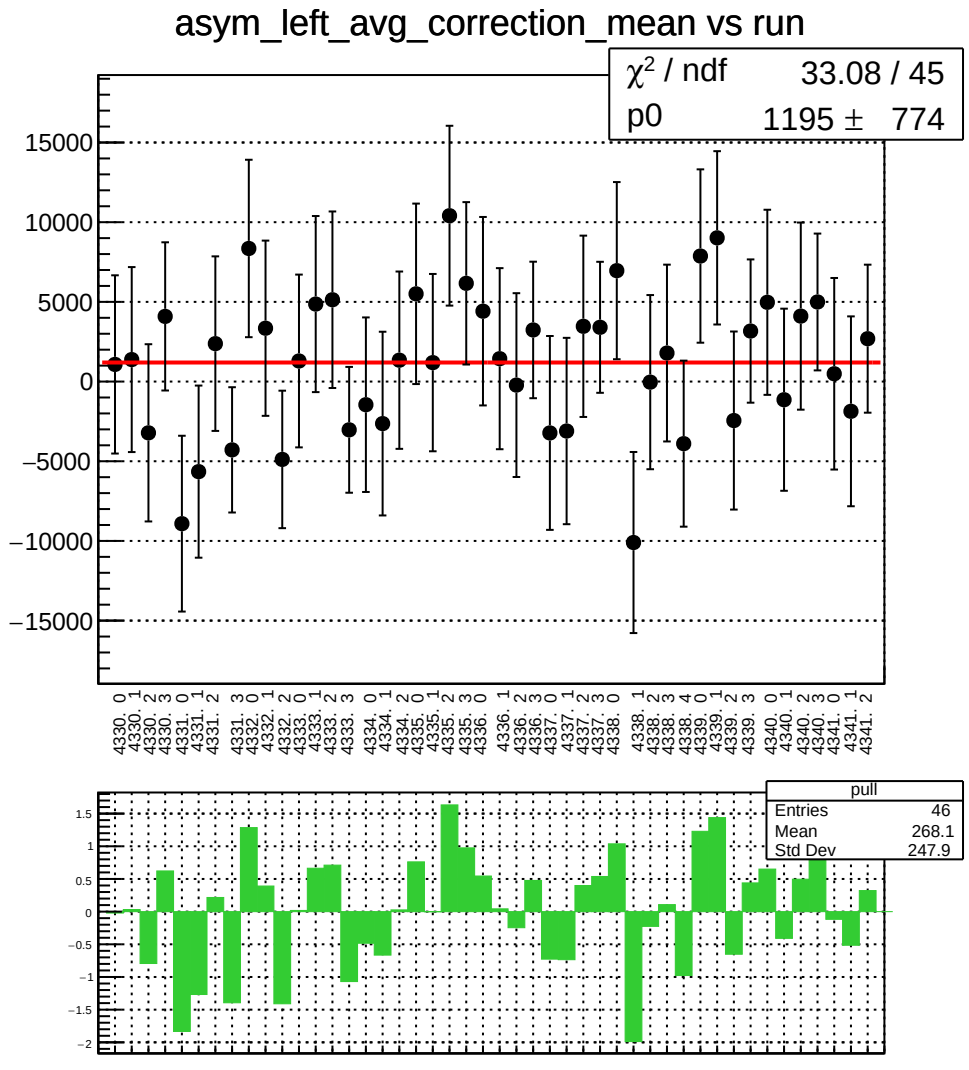

pull1D
Entries 46
Mean −0.02608
Std Dev 1.131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

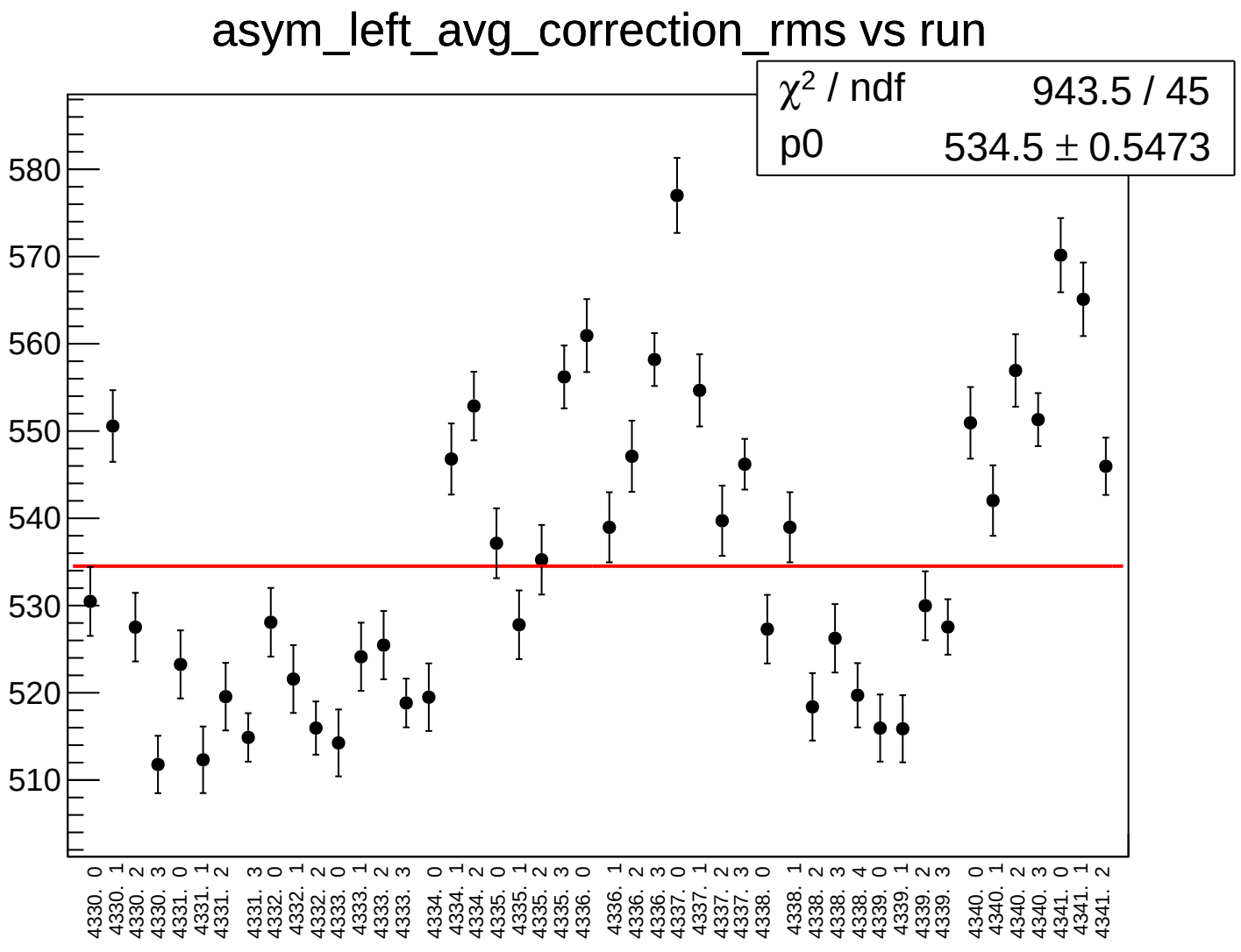

asym_dsr_rms vs run
χ² / ndf 253.3 / 45
p0 478.1 ± 0.4893
510
500
490
480
470
460
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

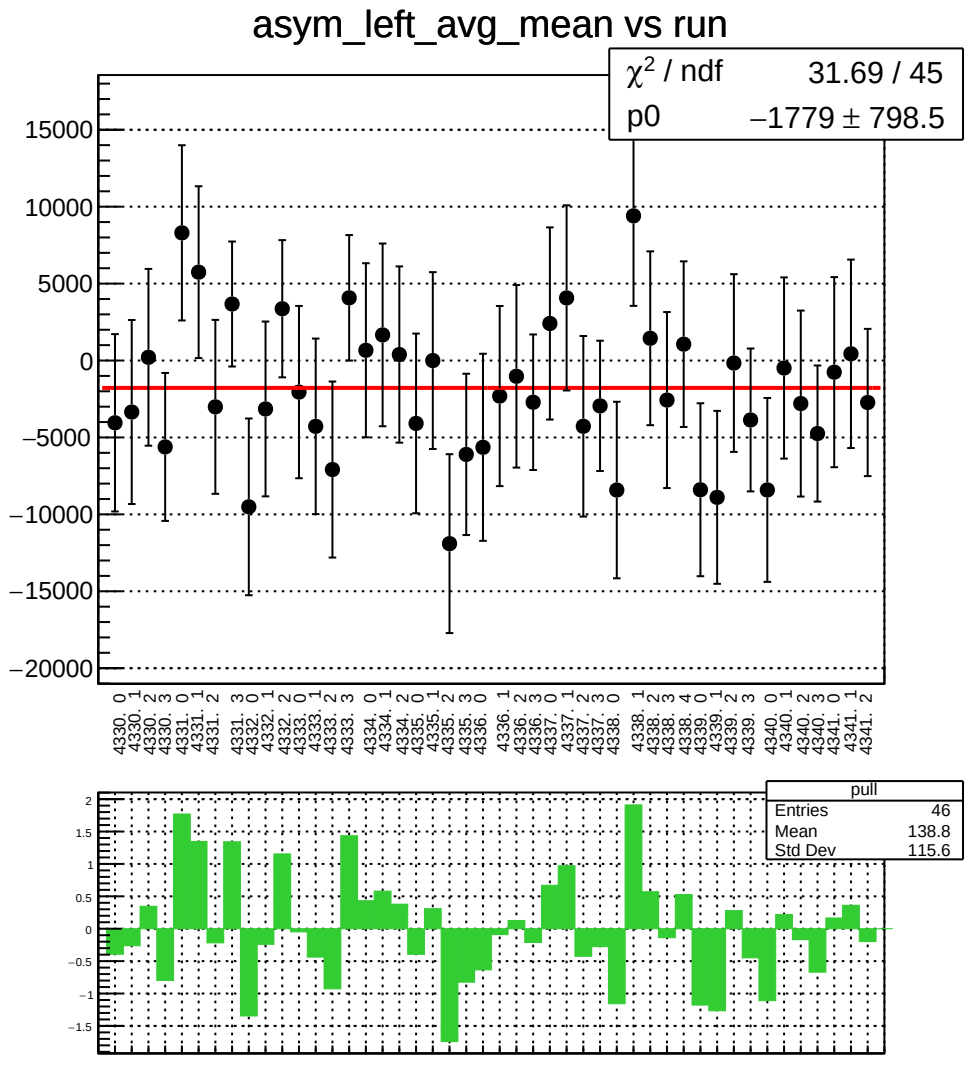

reg_asym_left_avg_mean vs run
χ² / ndf 38.57 / 45
p0 −575 ± 195.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −20.87
Std Dev 15.44
1.5
1
0.5
0
−0.5
−1
−1.5
−2

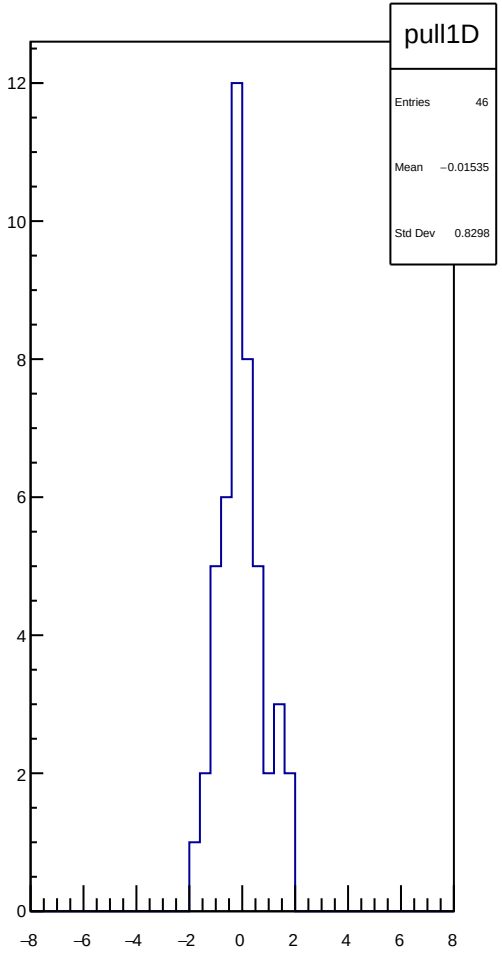

pull1D
Entries 46
Mean −0.03151
Std Dev 0.9151
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

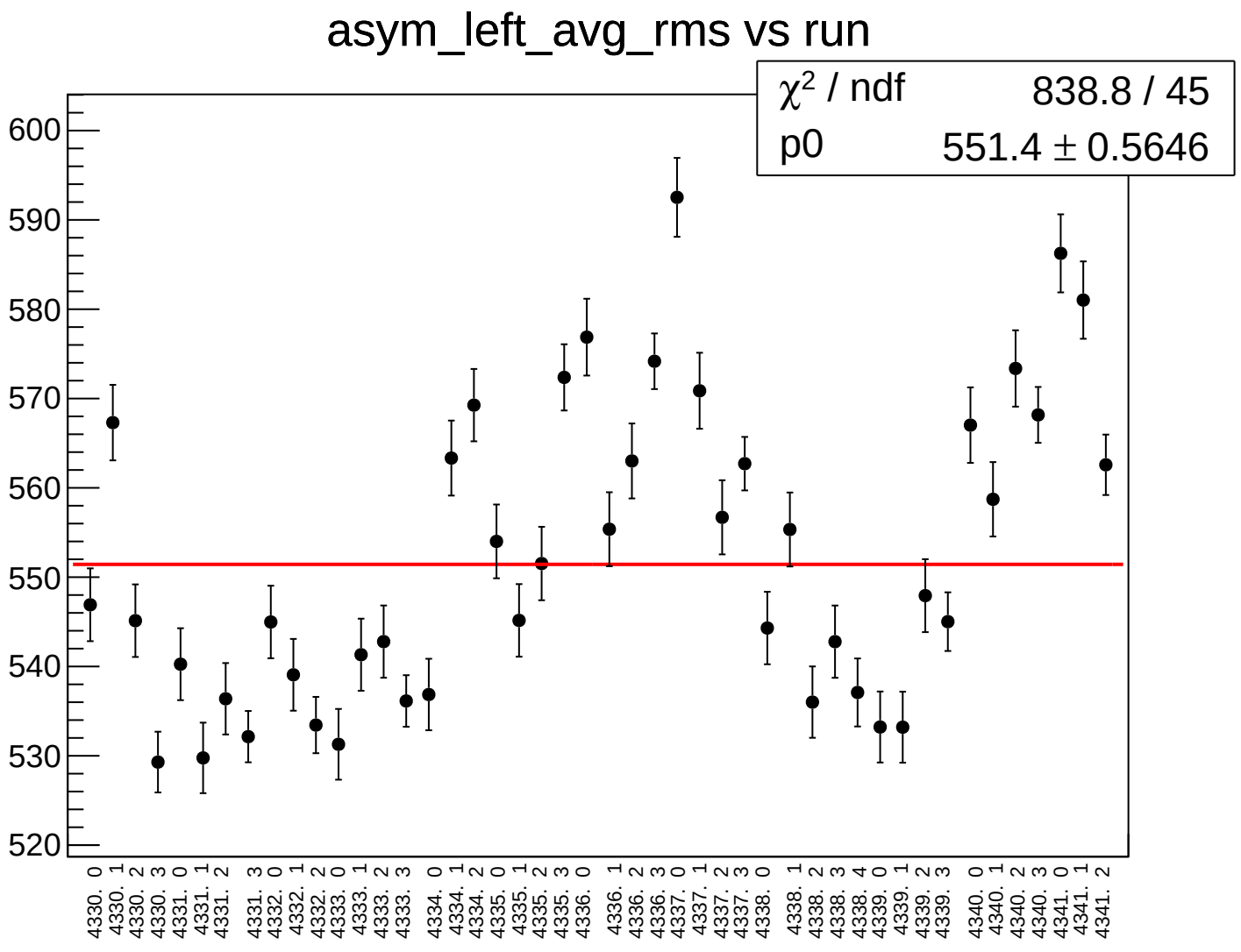

reg_asym_left_avg_rms vs run
χ² / ndf 79.12 / 45
p0 135.2 ± 0.1384
140
139
138
137
136
135
134
133
132
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

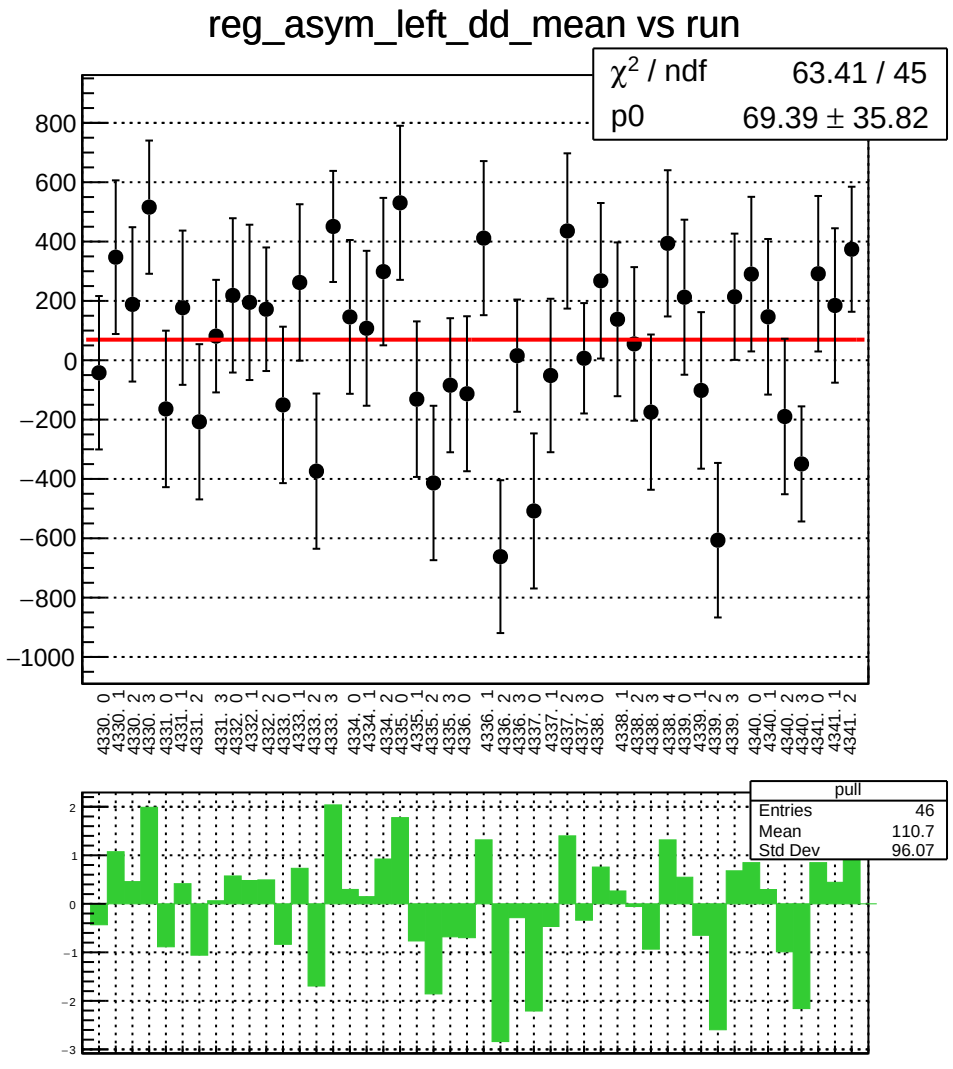

asym_left_avg_correction_mean vs run
χ² / ndf 33.08 / 45
p0 1195 ± 774
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 268.1
Std Dev 247.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.008937
Std Dev 0.848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

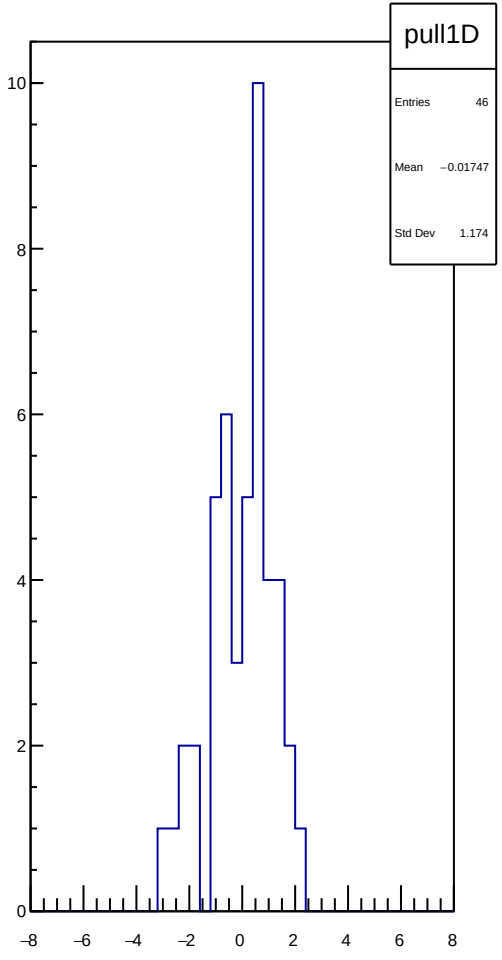

asym_left_avg_correction_rms vs run
χ^2 / ndf 943.5 / 45
p0 534.5 ± 0.5473
580
570
560
550
540
530
520
510
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

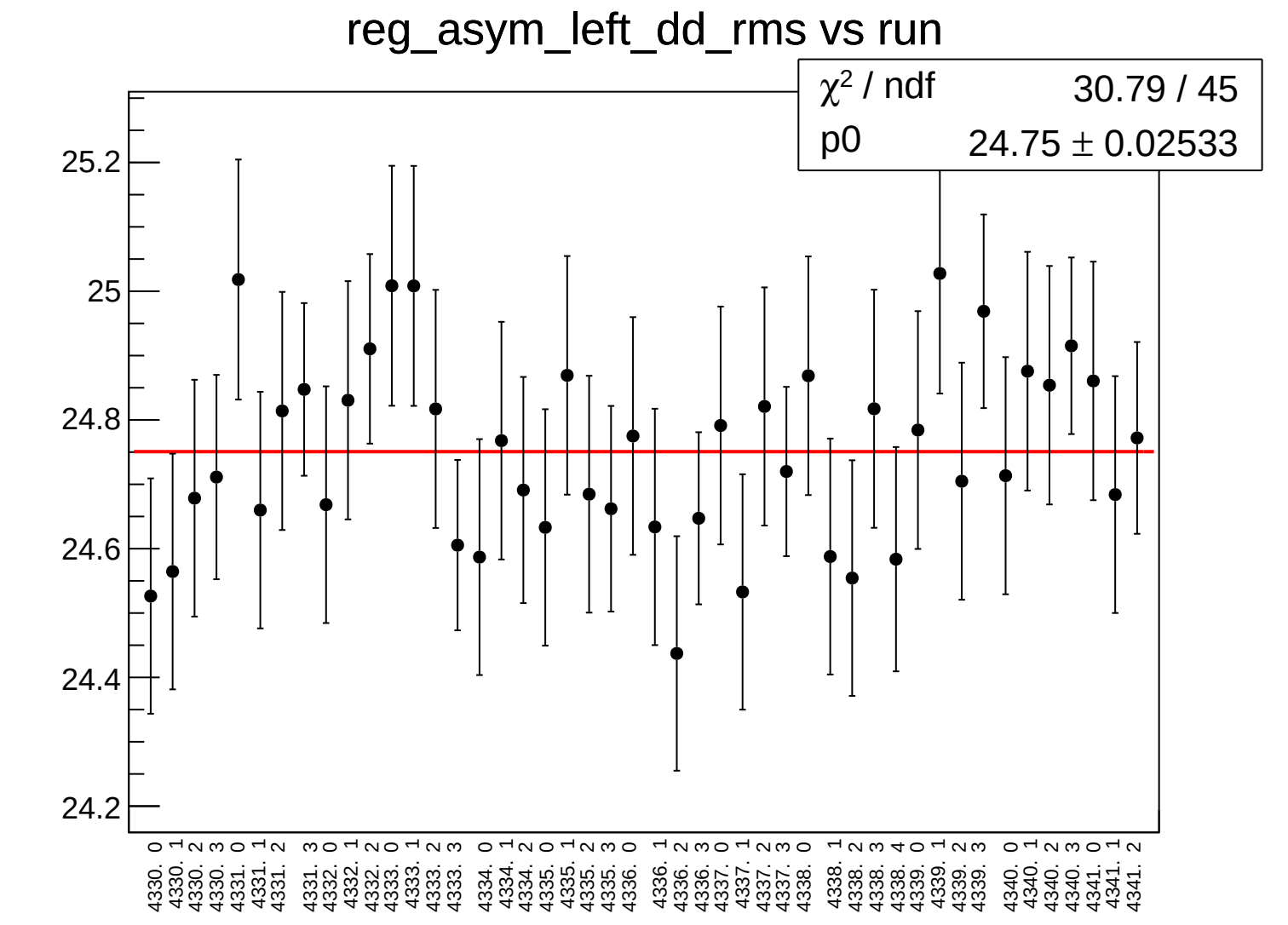

asym_left_avg_mean vs run
χ² / ndf 31.69 / 45
p0 −1779 ± 798.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 138.8
Std Dev 115.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

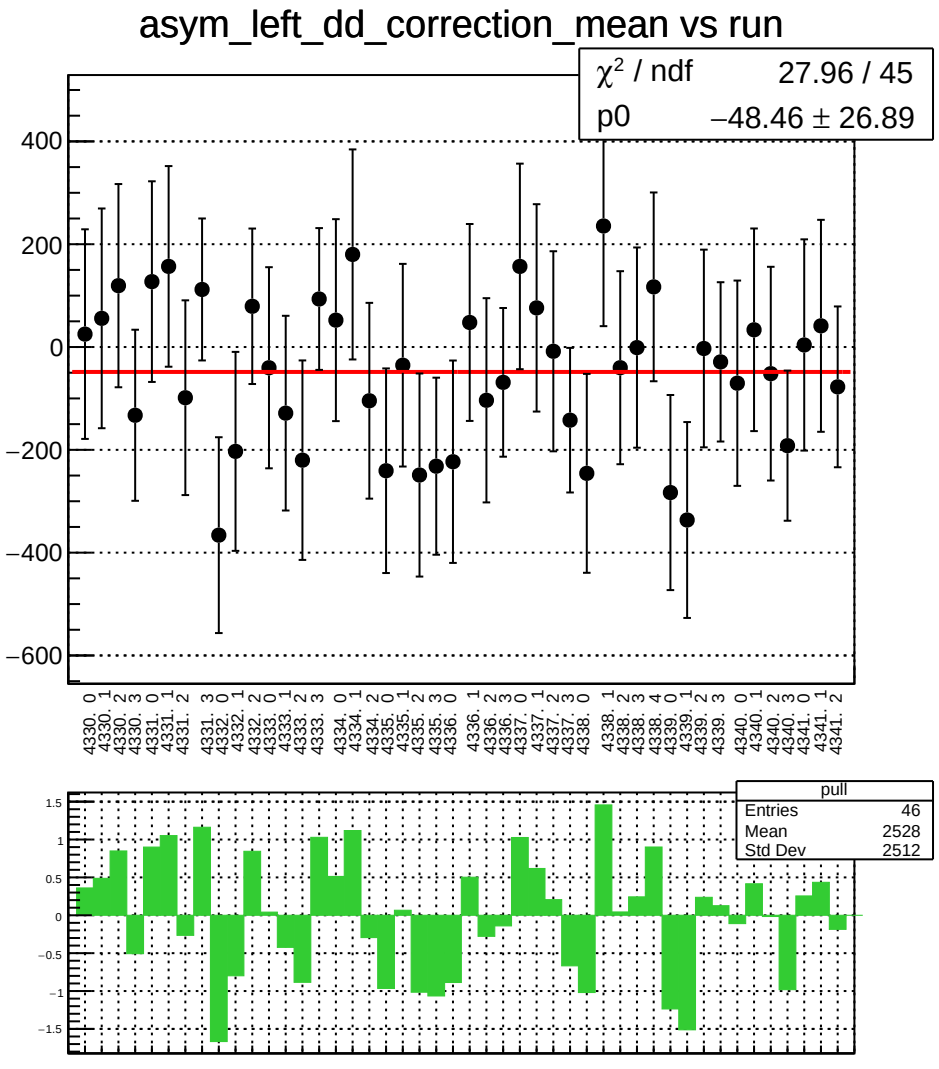

pull1D
Entries 46
Mean −0.01535
Std Dev 0.8298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

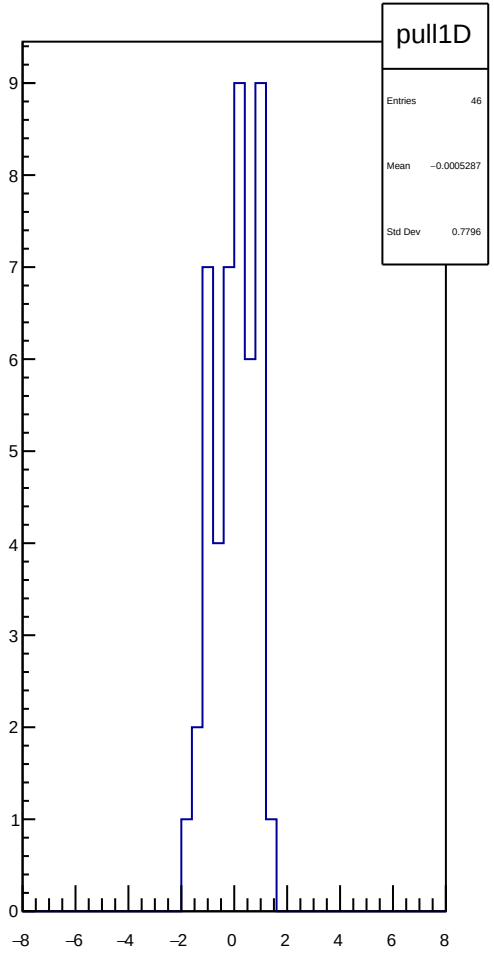

asym_left_avg_rms vs run
χ² / ndf 838.8 / 45
p0 551.4 ± 0.5646
600
590
580
570
560
550
540
530
520
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

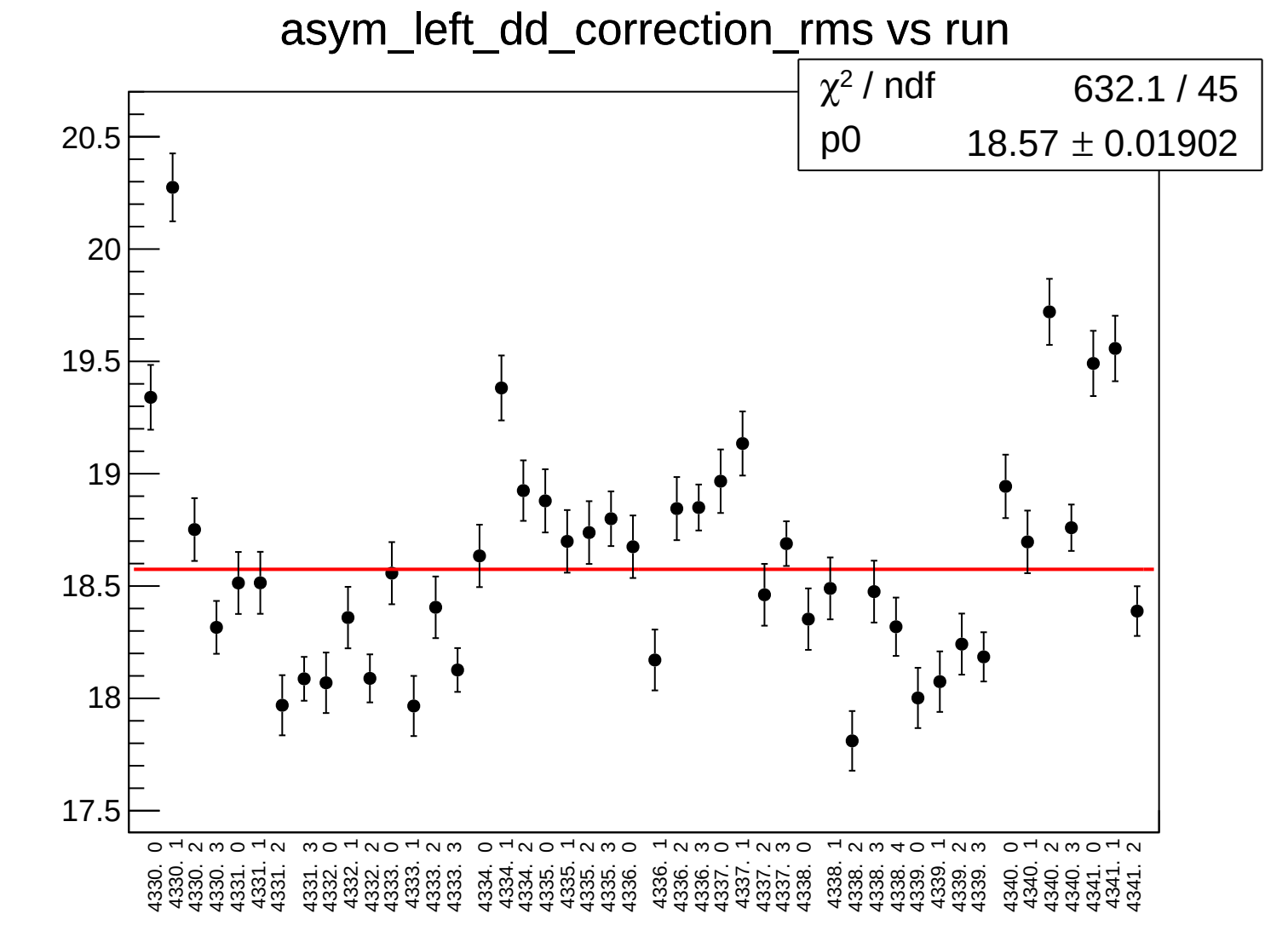

reg_asym_left_dd_mean vs run
χ^2 / ndf 63.41 / 45
p0 69.39 ± 35.82
pull
Entries 46
Mean 110.7
Std Dev 96.07

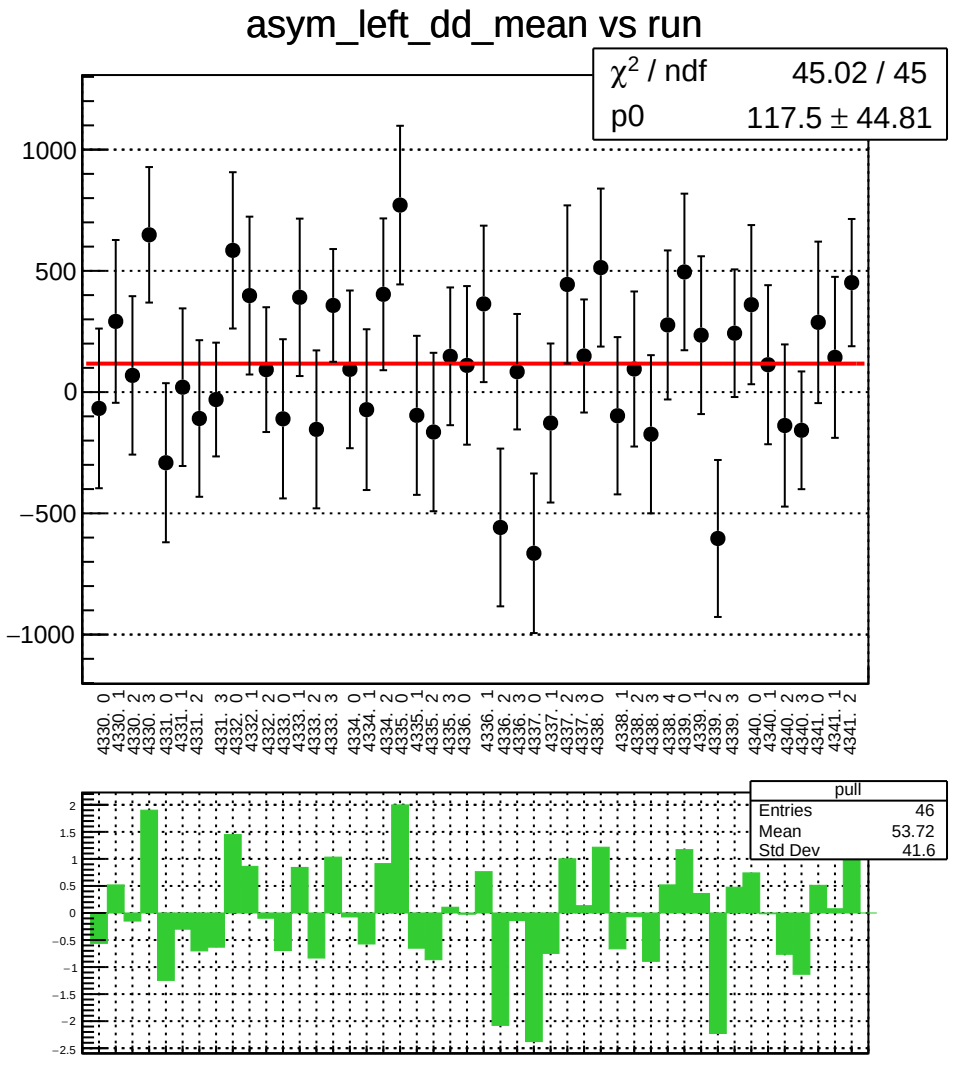

pull1D
Entries 46
Mean −0.01747
Std Dev 1.174

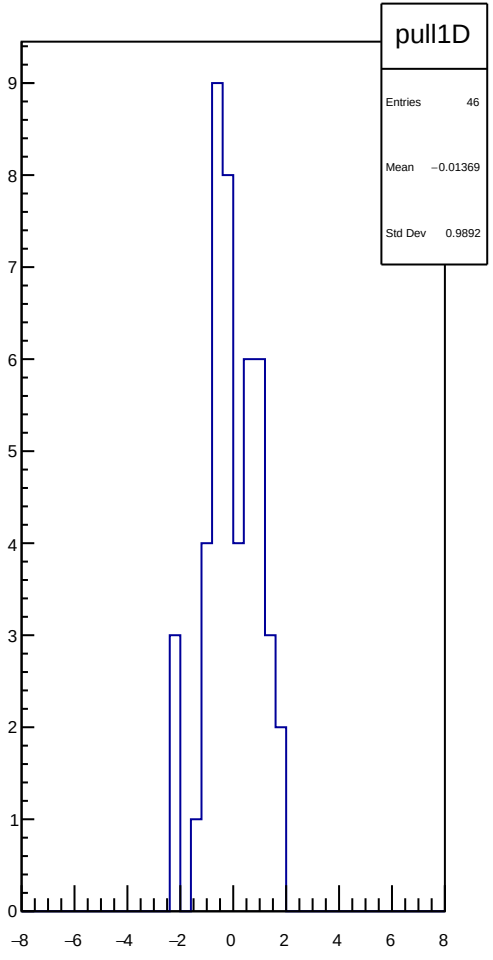

reg_asym_left_dd_rms vs run
χ² / ndf 30.79 / 45
p0 24.75 ± 0.02533
25.2
25
24.8
24.6
24.4
24.2
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

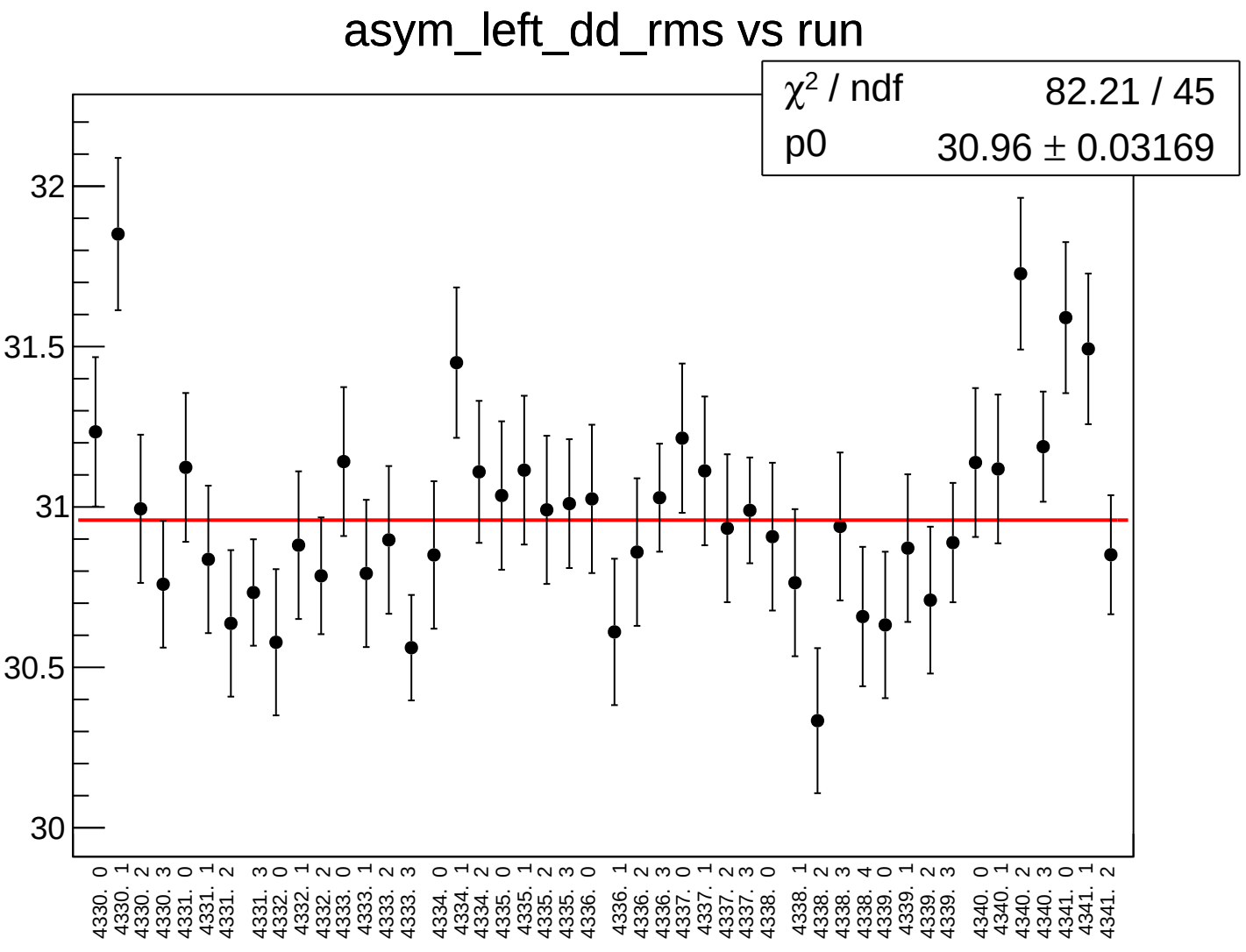

asym_left_dd_correction_mean vs run
χ² / ndf 27.96 / 45
p0 −48.46 ± 26.89
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 2528
Std Dev 2512
1.5
1
0.5
0
−0.5
−1
−1.5

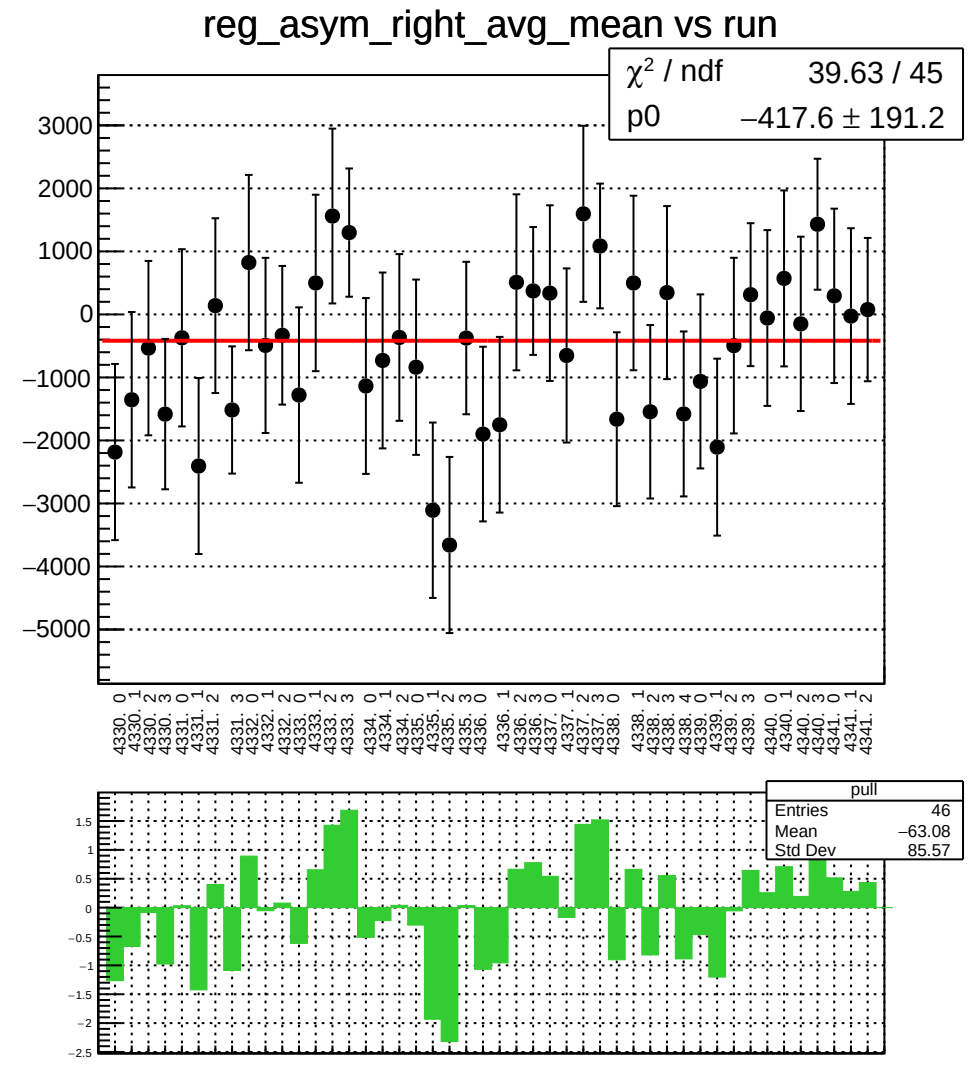

pull1D
Entries 46
Mean −0.0005287
Std Dev 0.7796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

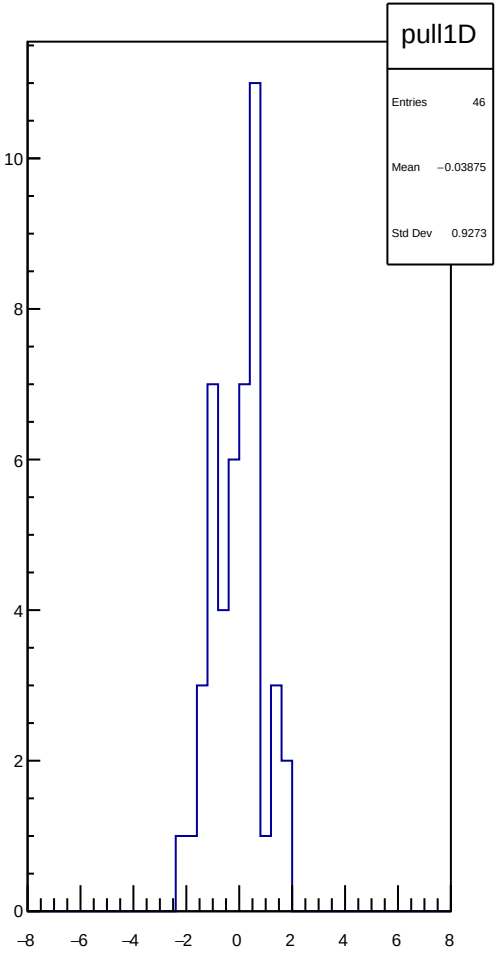

asym_left_dd_correction_rms vs run
χ² / ndf 632.1 / 45
p0 18.57 ± 0.01902
20.5
20
19.5
19
18.5
18
17.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

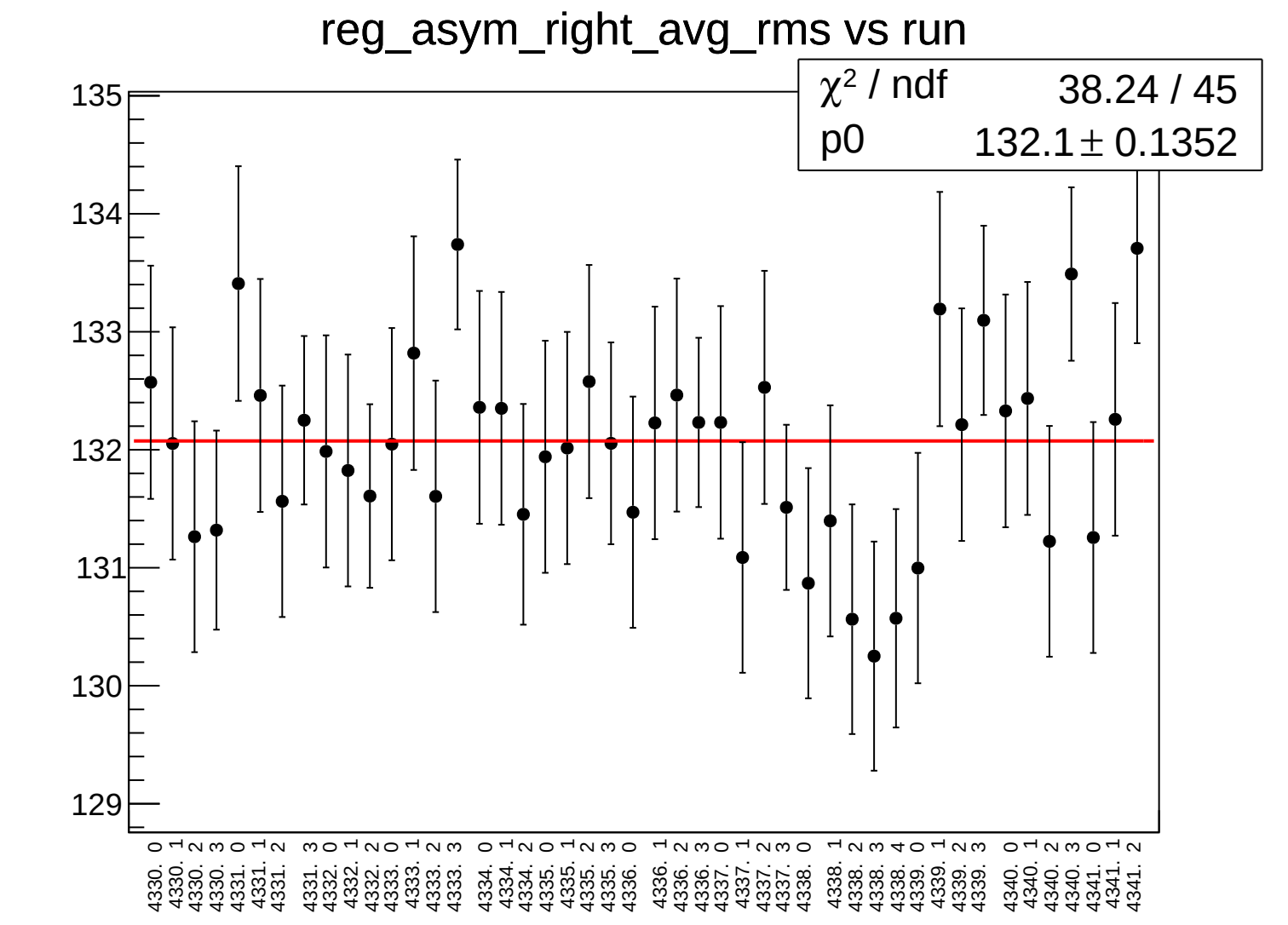

asym_left_dd_mean vs run
χ² / ndf 45.02 / 45
p0 117.5 ± 44.81
1000
500
0
−500
−1000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 53.72
Std Dev 41.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

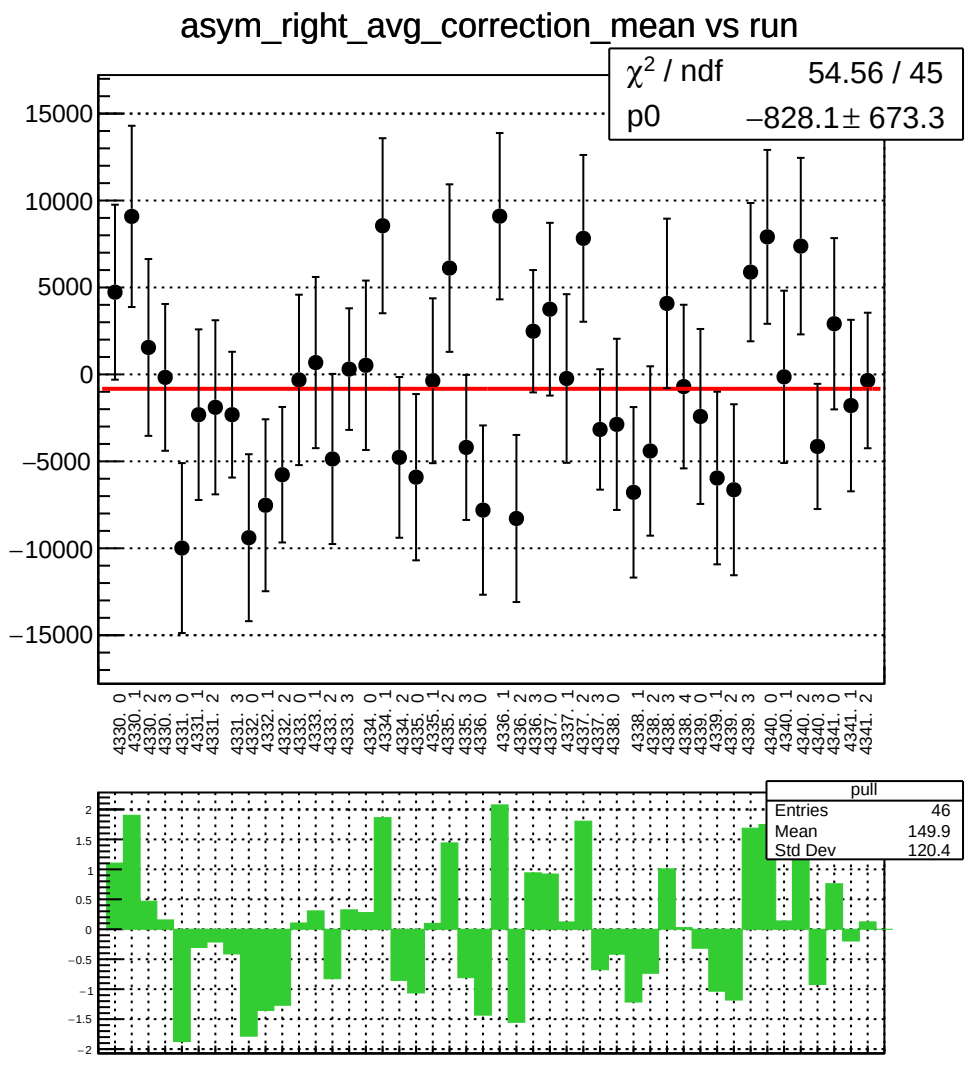

pull1D
Entries 46
Mean −0.01369
Std Dev 0.9892
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

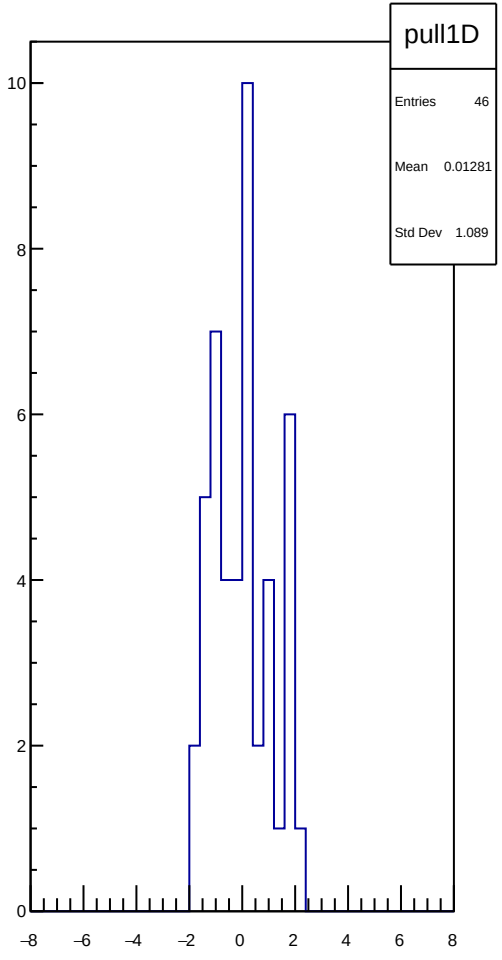

asym_left_dd_rms vs run
χ² / ndf 82.21 / 45
p0 30.96 ± 0.03169
32
31.5
31
30.5
30
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

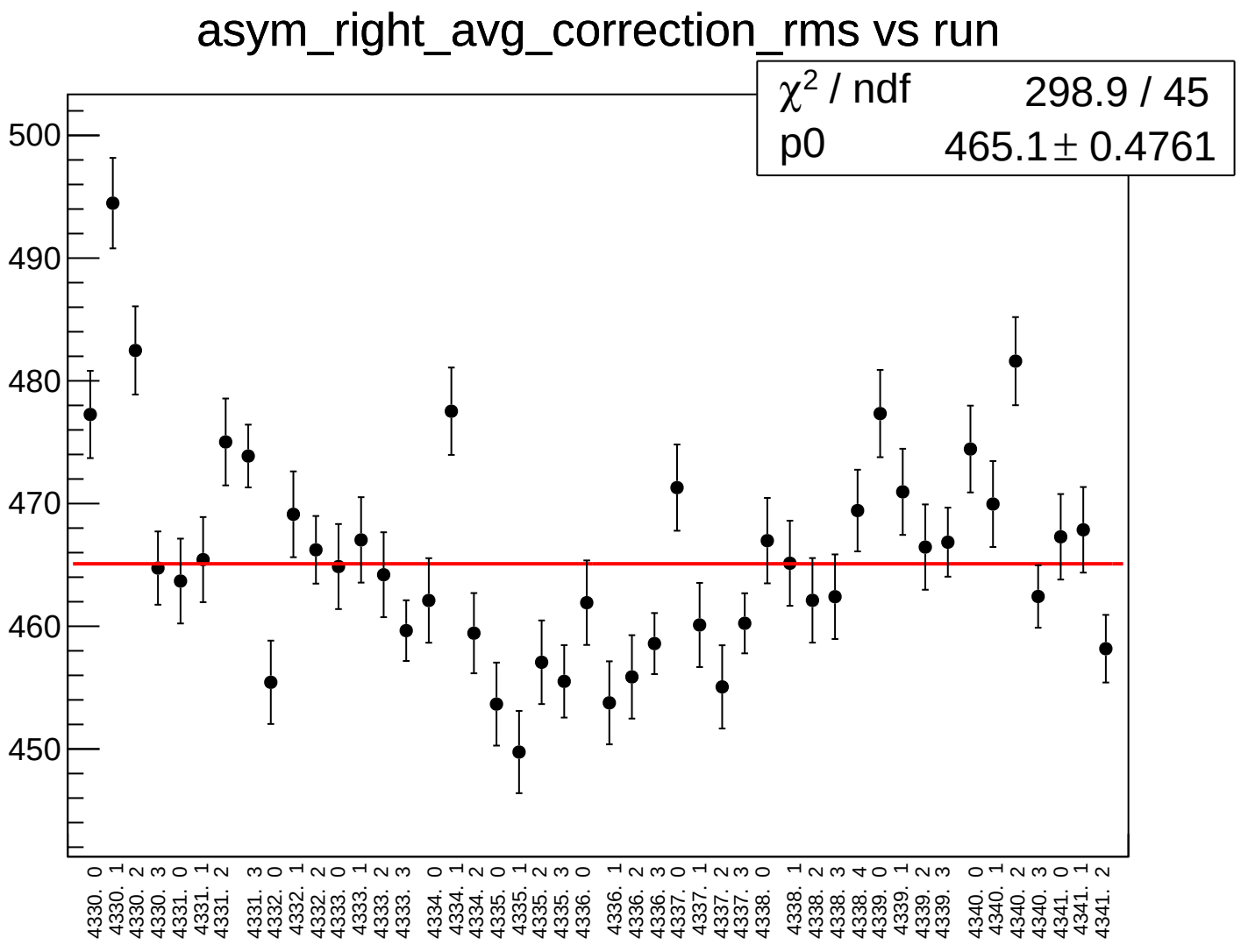

reg_asym_right_avg_mean vs run
χ² / ndf 39.63 / 45
p0 −417.6 ± 191.2
pull
Entries 46
Mean −63.08
Std Dev 85.57

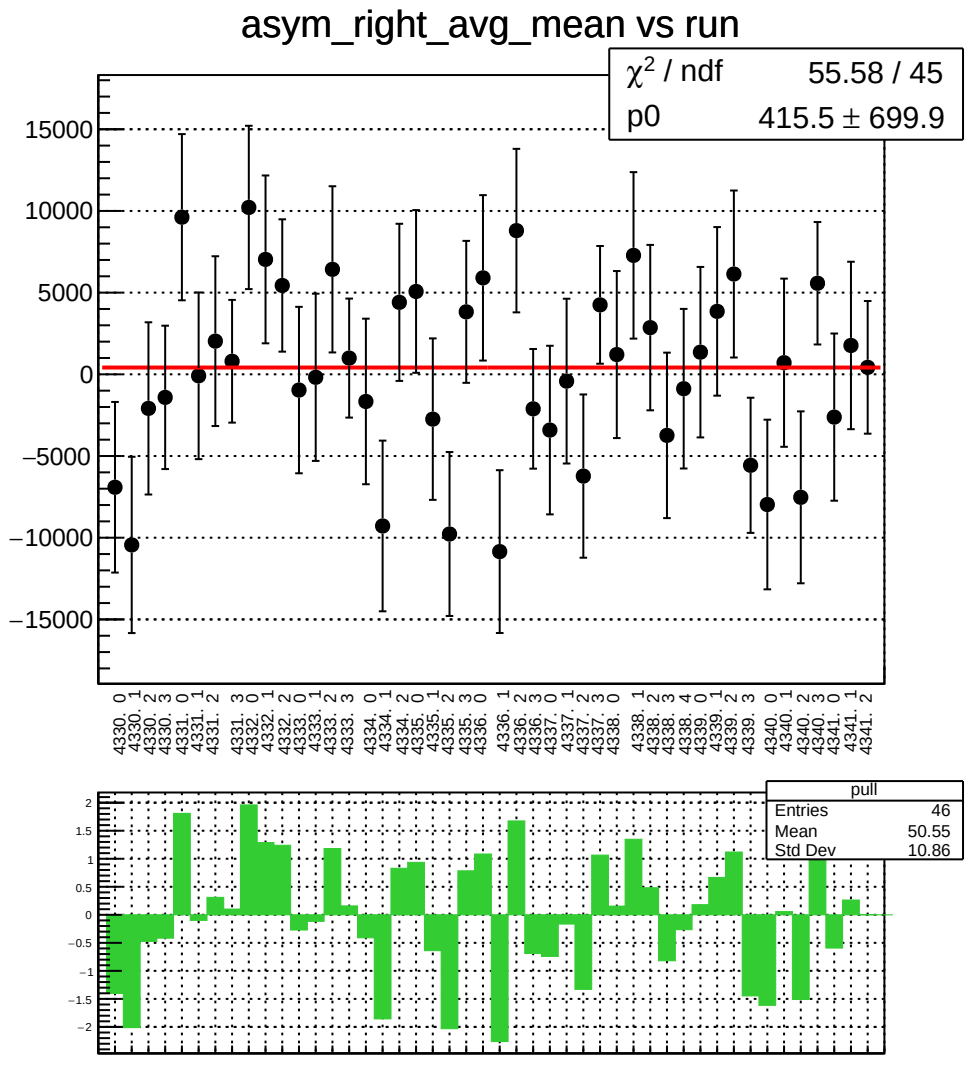

pull1D
Entries 46
Mean −0.03875
Std Dev 0.9273

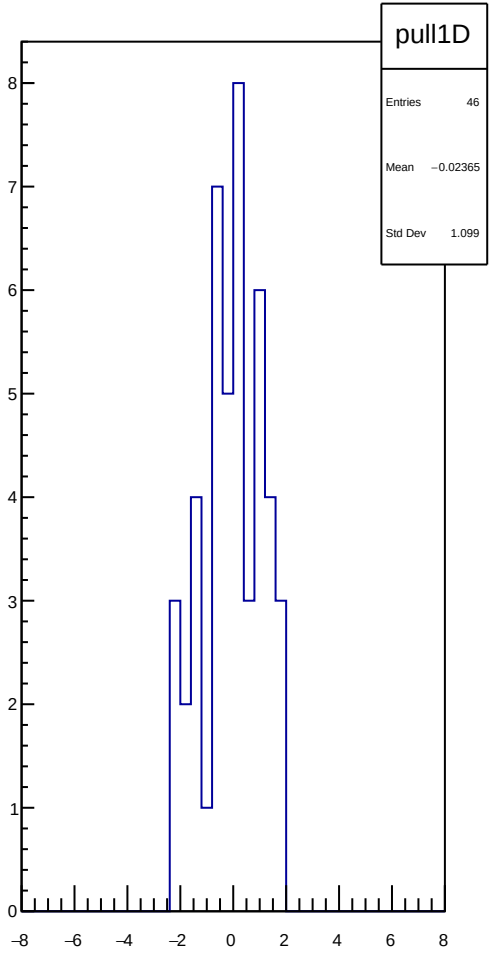

reg_asym_right_avg_rms vs run
χ² / ndf 38.24 / 45
p0 132.1 ± 0.1352
135
134
133
132
131
130
129
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

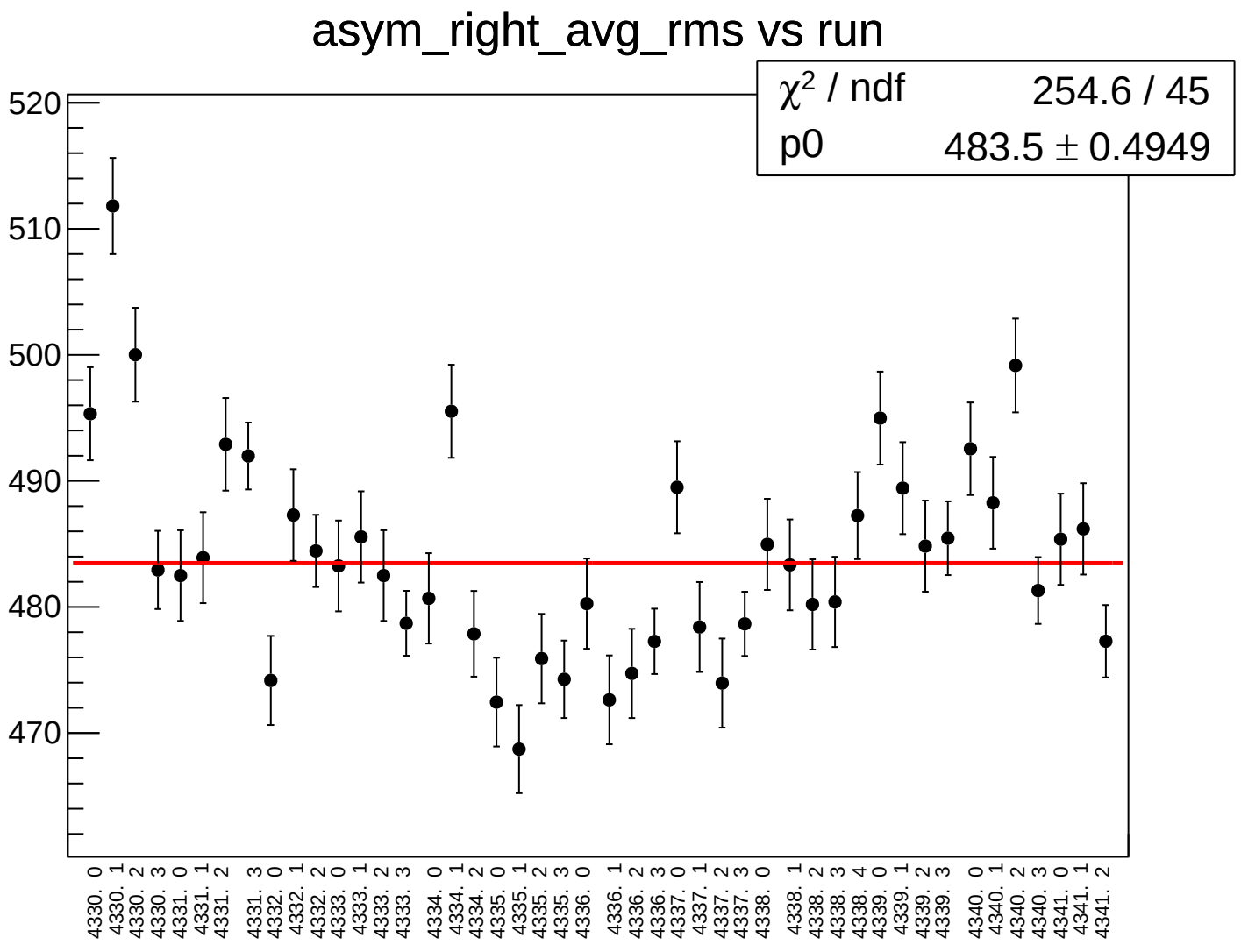

asym_right_avg_correction_mean vs run
χ² / ndf 54.56 / 45
p0 −828.1 ± 673.3
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 149.9
Std Dev 120.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

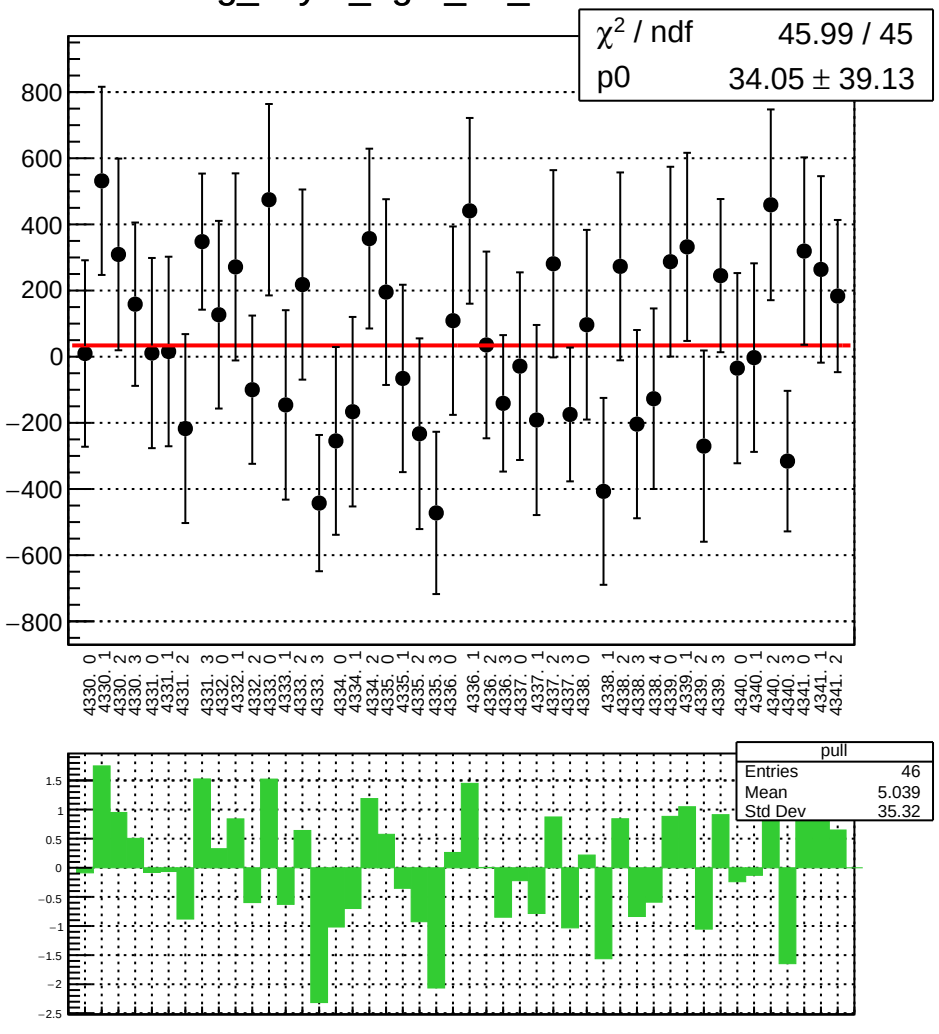

pull1D
Entries 46
Mean 0.01281
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

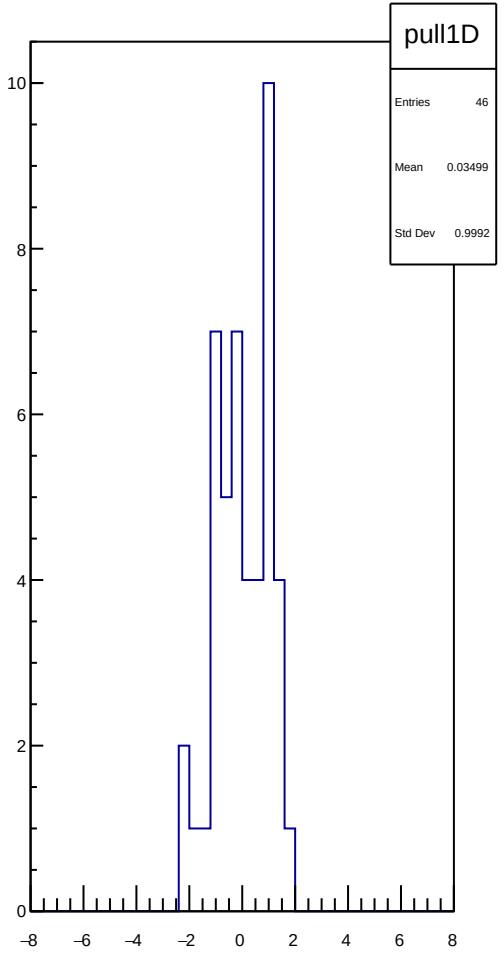

asym_right_avg_correction_rms vs run
χ^2 / ndf 298.9 / 45
p0 465.1 ± 0.4761
500
490
480
470
460
450
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

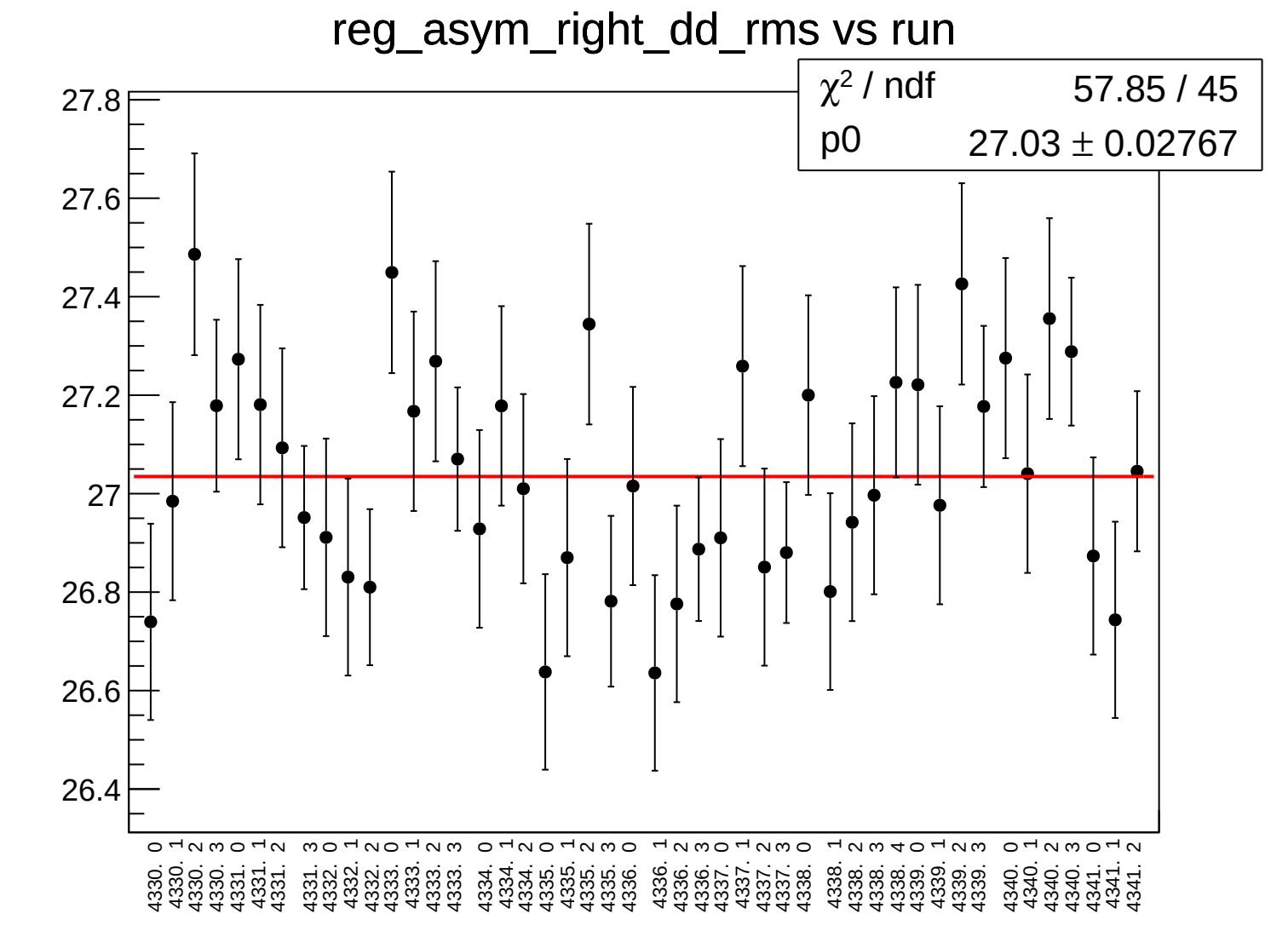

asym_right_avg_mean vs run
χ² / ndf 55.58 / 45
p0 415.5 ± 699.9
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 50.55
Std Dev 10.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

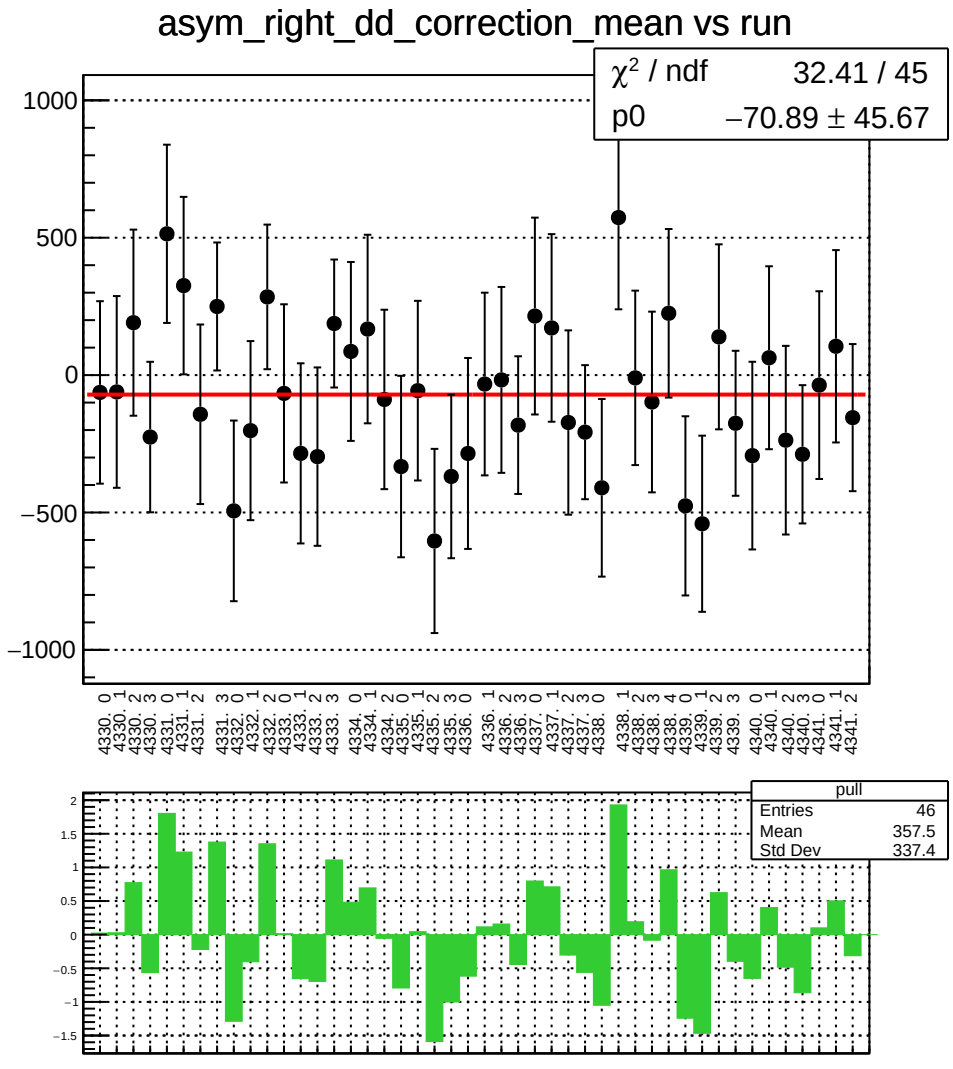

pull1D
Entries 46
Mean −0.02365
Std Dev 1.099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

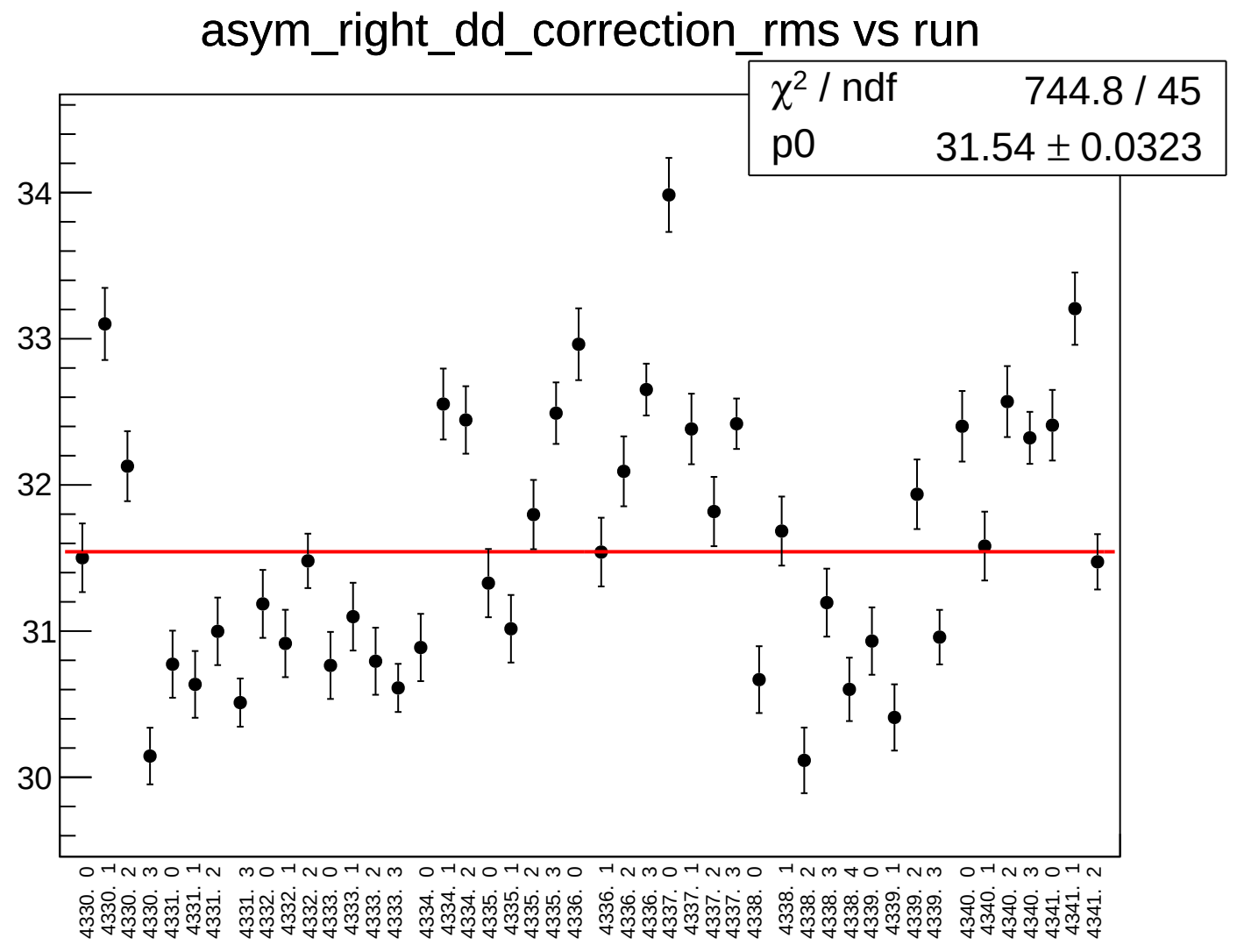

asym_right_avg_rms vs run
χ² / ndf 254.6 / 45
p0 483.5 ± 0.4949
520
510
500
490
480
470
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


reg_asym_right_dd_mean vs run
χ² / ndf 45.99 / 45
p0 34.05 ± 39.13
pull
Entries 46
Mean 5.039
Std Dev 35.32


pull1D
Entries 46
Mean 0.03499
Std Dev 0.9992


reg_asym_right_dd_rms vs run
χ² / ndf 57.85 / 45
p0 27.03 ± 0.02767
27.8
27.6
27.4
27.2
27
26.8
26.6
26.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_right_dd_correction_mean vs run
χ² / ndf 32.41 / 45
p0 −70.89 ± 45.67
1000
500
0
−500
−1000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 357.5
Std Dev 337.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.00661
Std Dev 0.8394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_dd_correction_rms vs run
χ² / ndf 744.8 / 45
p0 31.54 ± 0.0323
34
33
32
31
30
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
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4333. 3
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4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
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4339. 3
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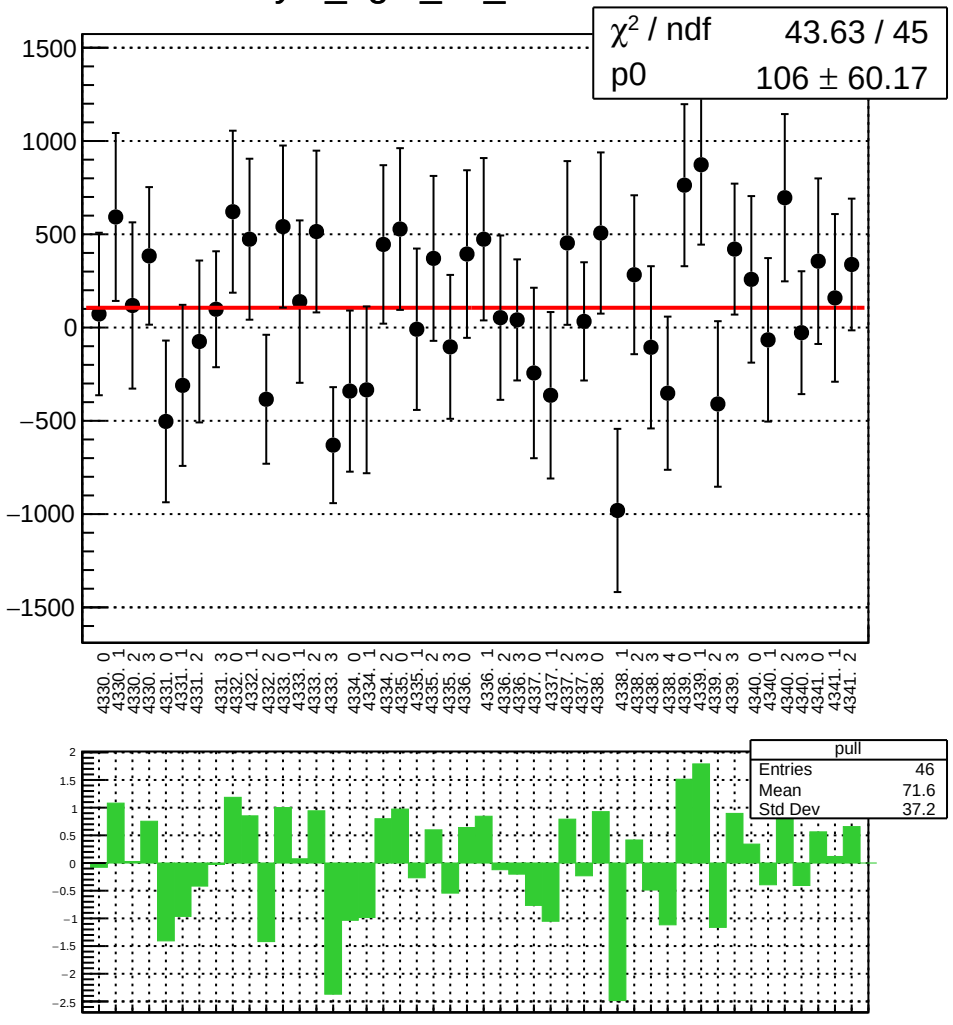
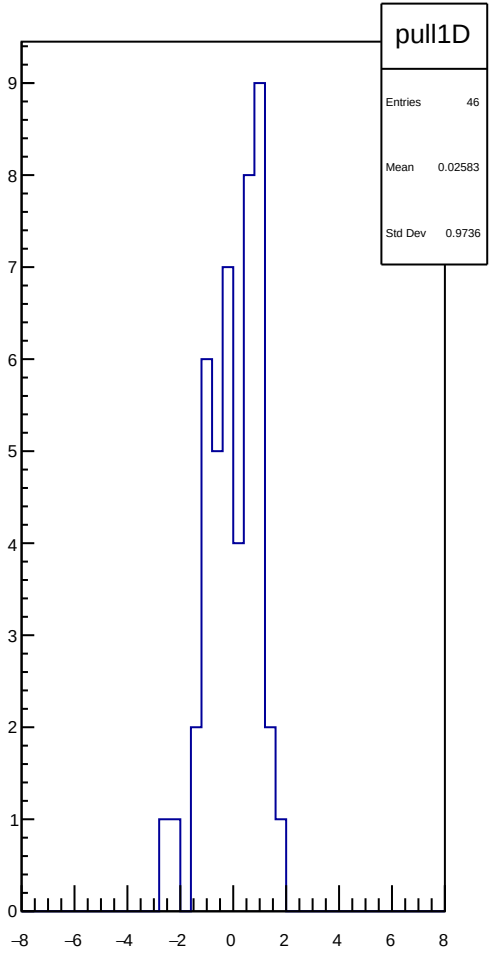
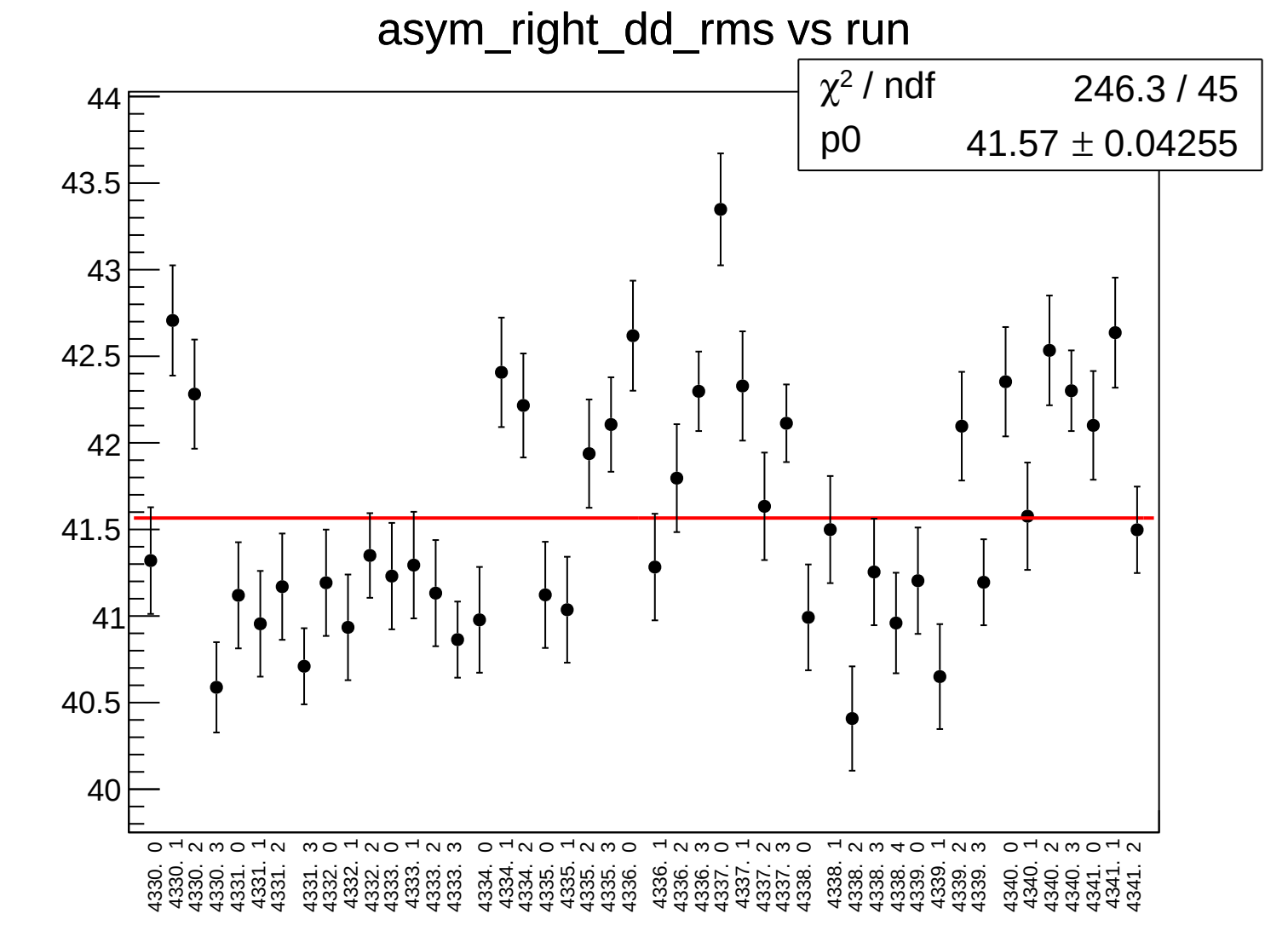
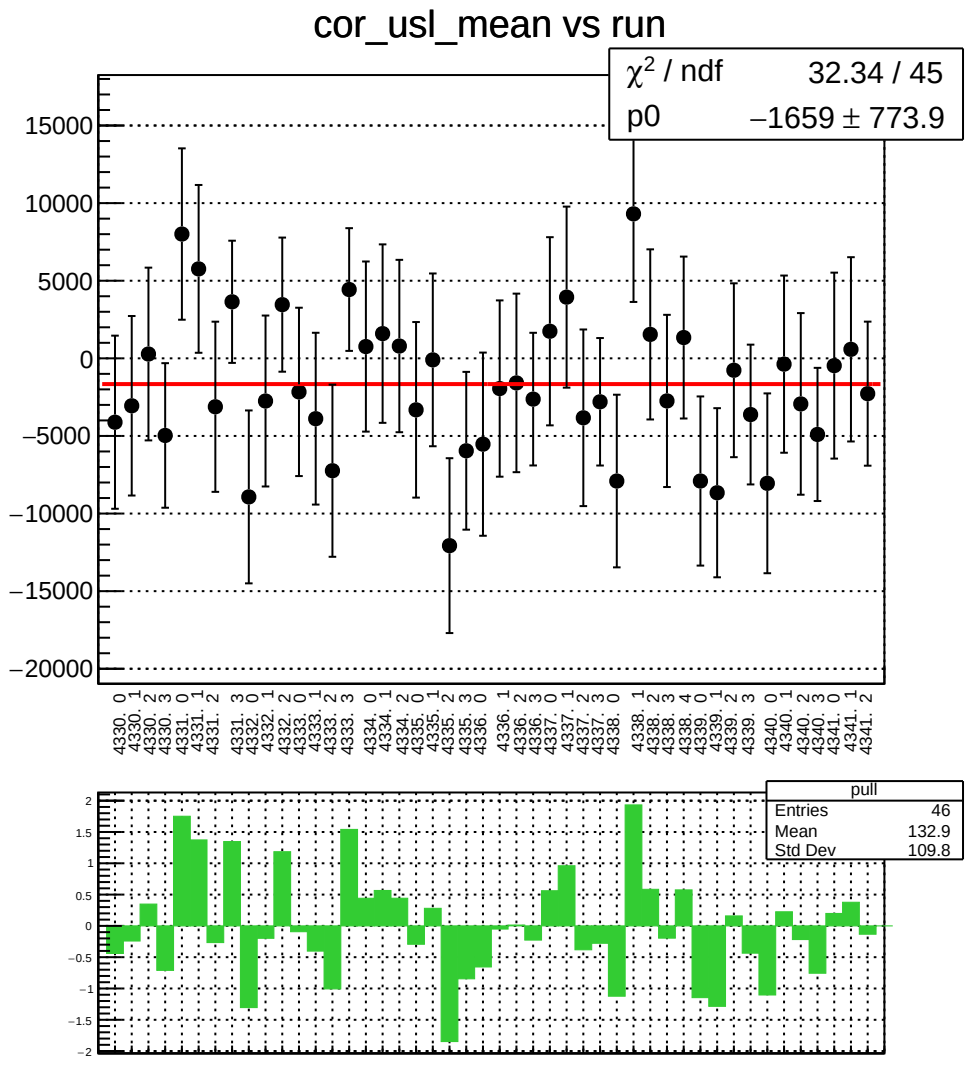
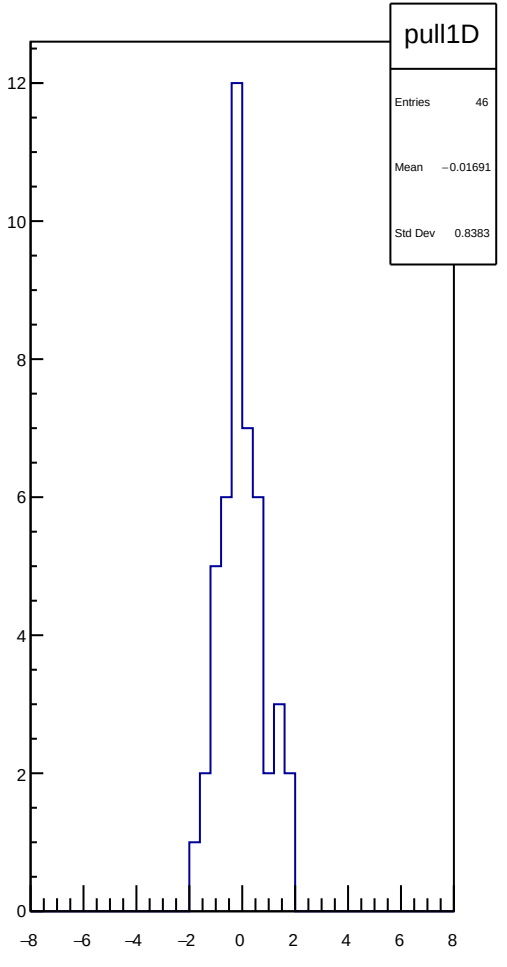
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

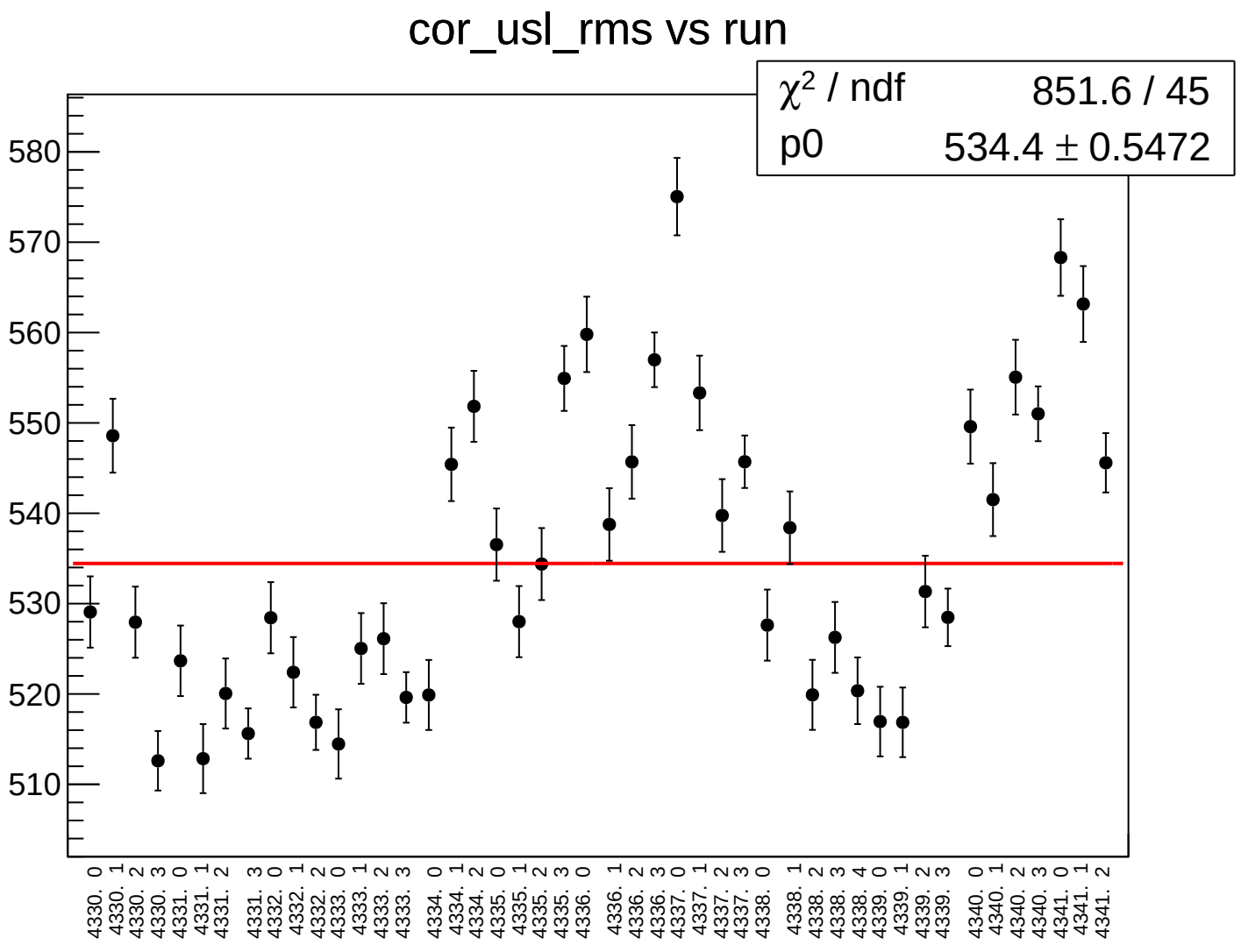

asym_right_dd_mean vs run
χ² / ndf 43.63 / 45
p0 106 ± 60.17
1500
1000
500
0
−500
−1000
−1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 71.6
Std Dev 37.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

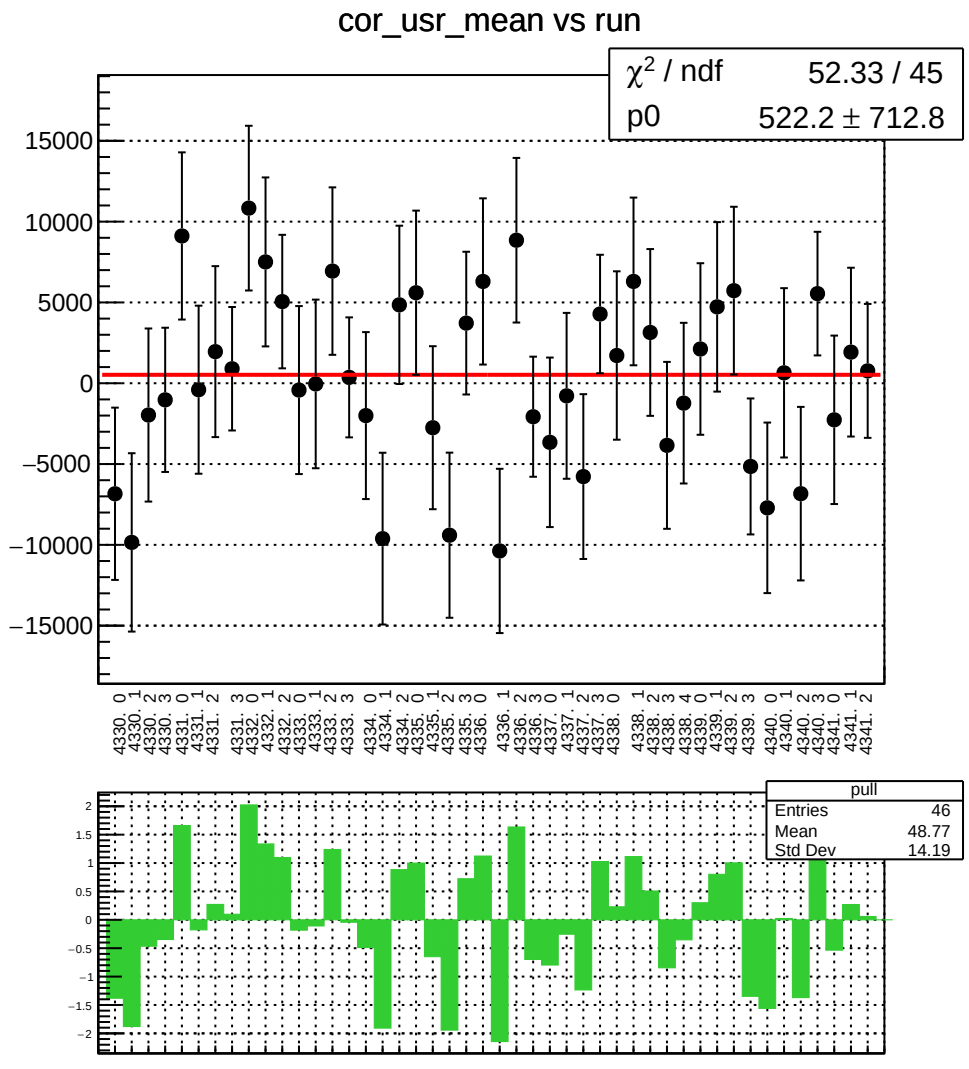

pull1D
Entries 46
Mean 0.02583
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

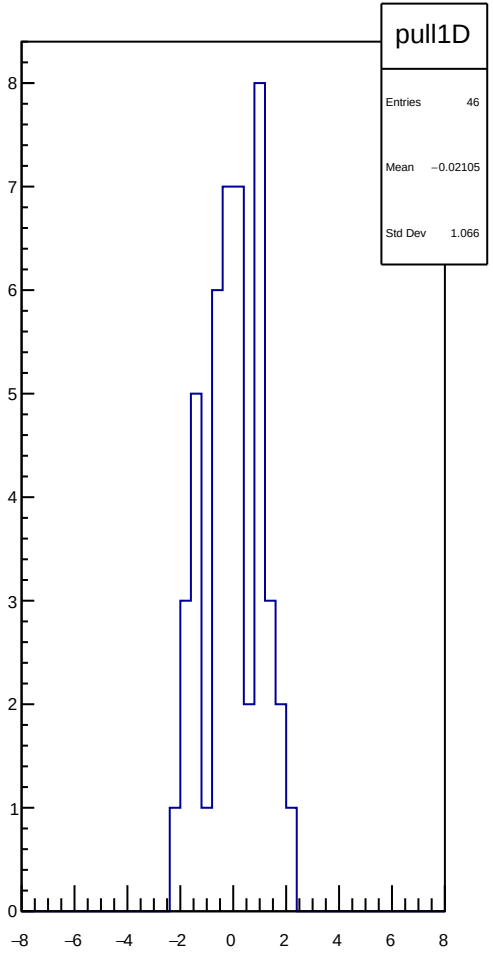

asym_right_dd_rms vs run
χ² / ndf 246.3 / 45
p0 41.57 ± 0.04255
44
43.5
43
42.5
42
41.5
41
40.5
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

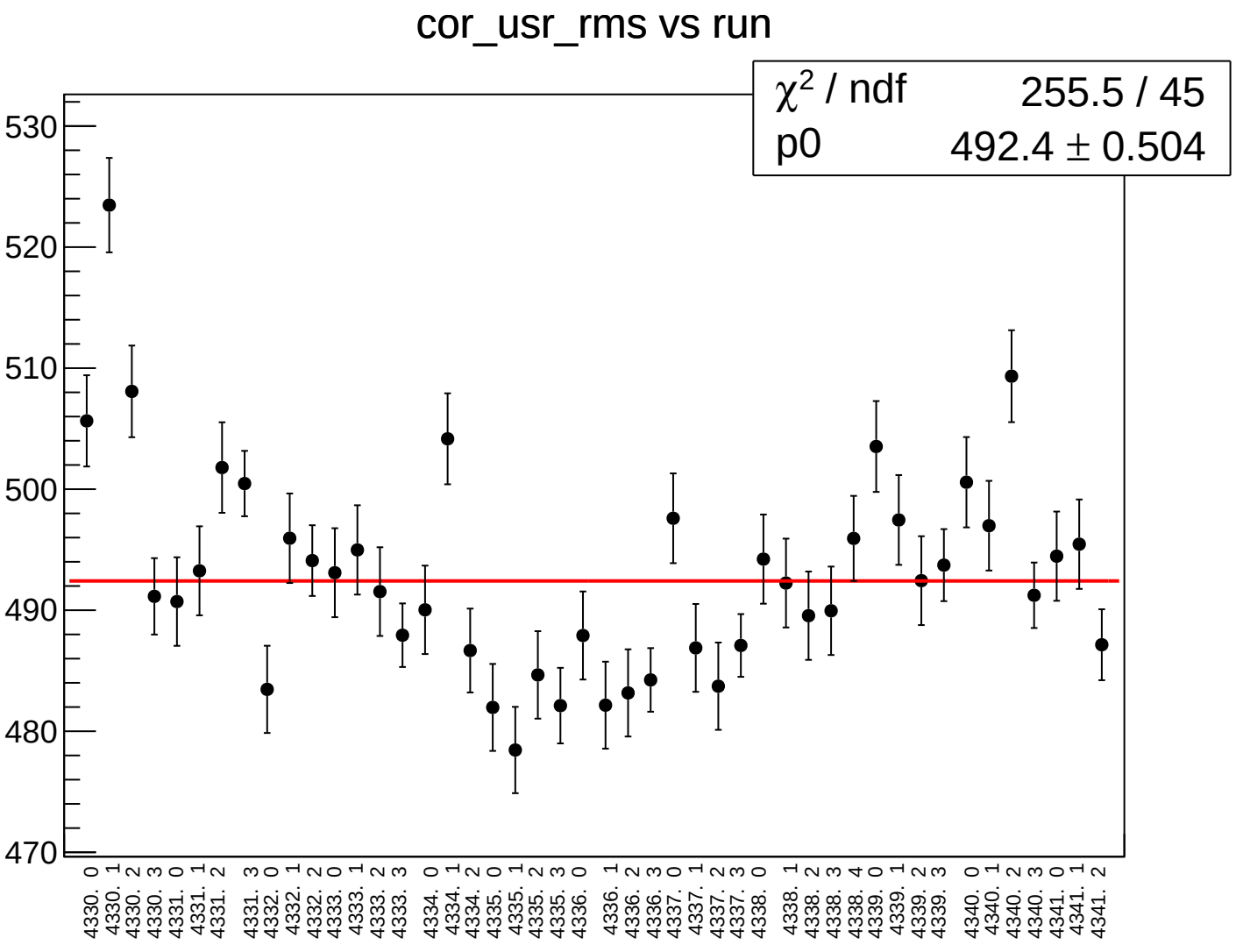

cor_usl_mean vs run
χ² / ndf 32.34 / 45
p0 −1659 ± 773.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 132.9
Std Dev 109.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

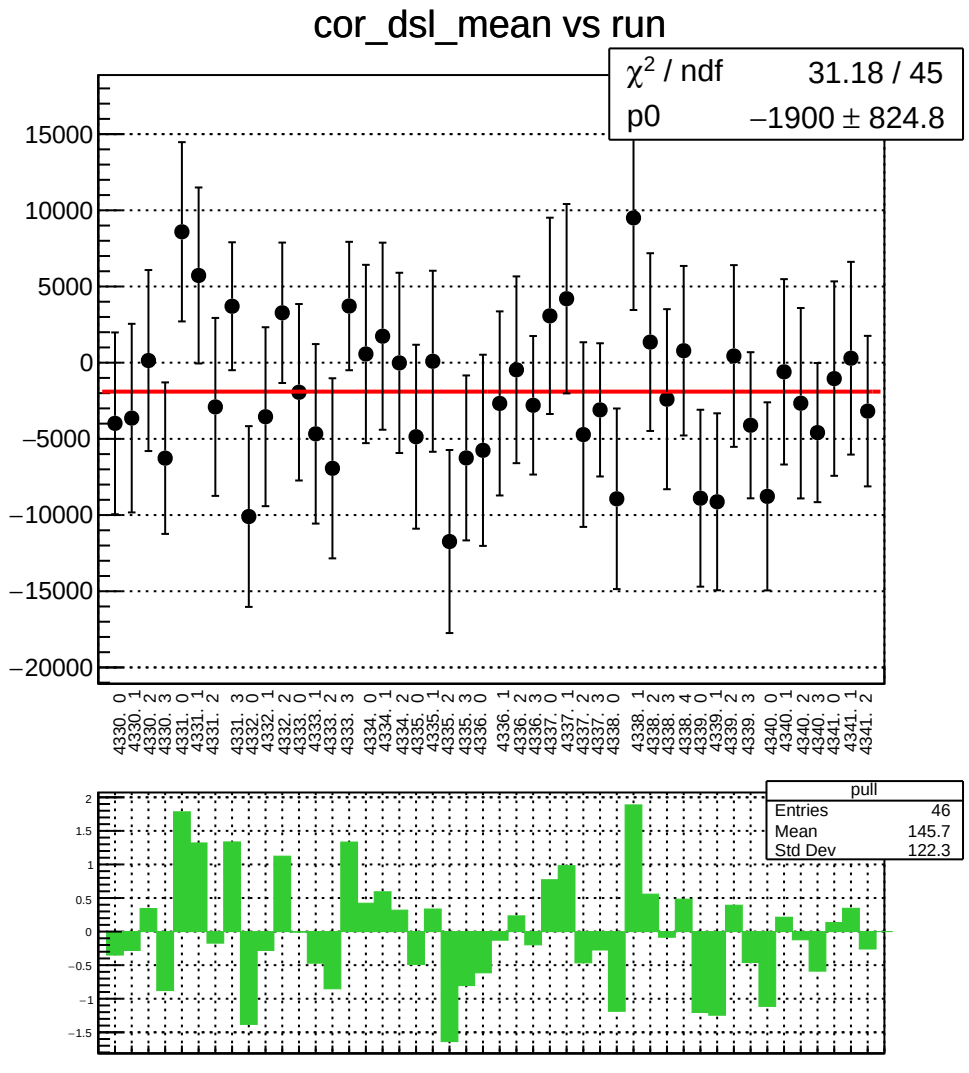

pull1D
Entries 46
Mean −0.01691
Std Dev 0.8383
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

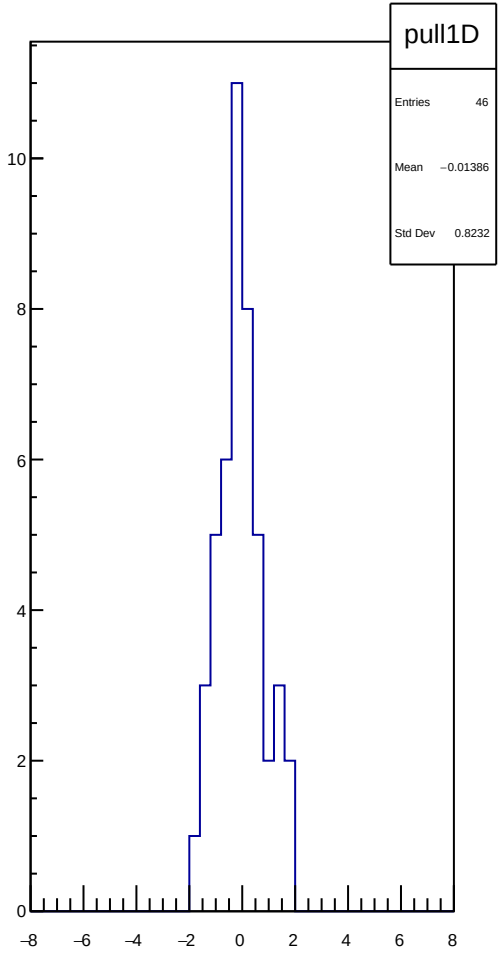

cor_usl_rms vs run
χ² / ndf 851.6 / 45
p0 534.4 ± 0.5472
580
570
560
550
540
530
520
510
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

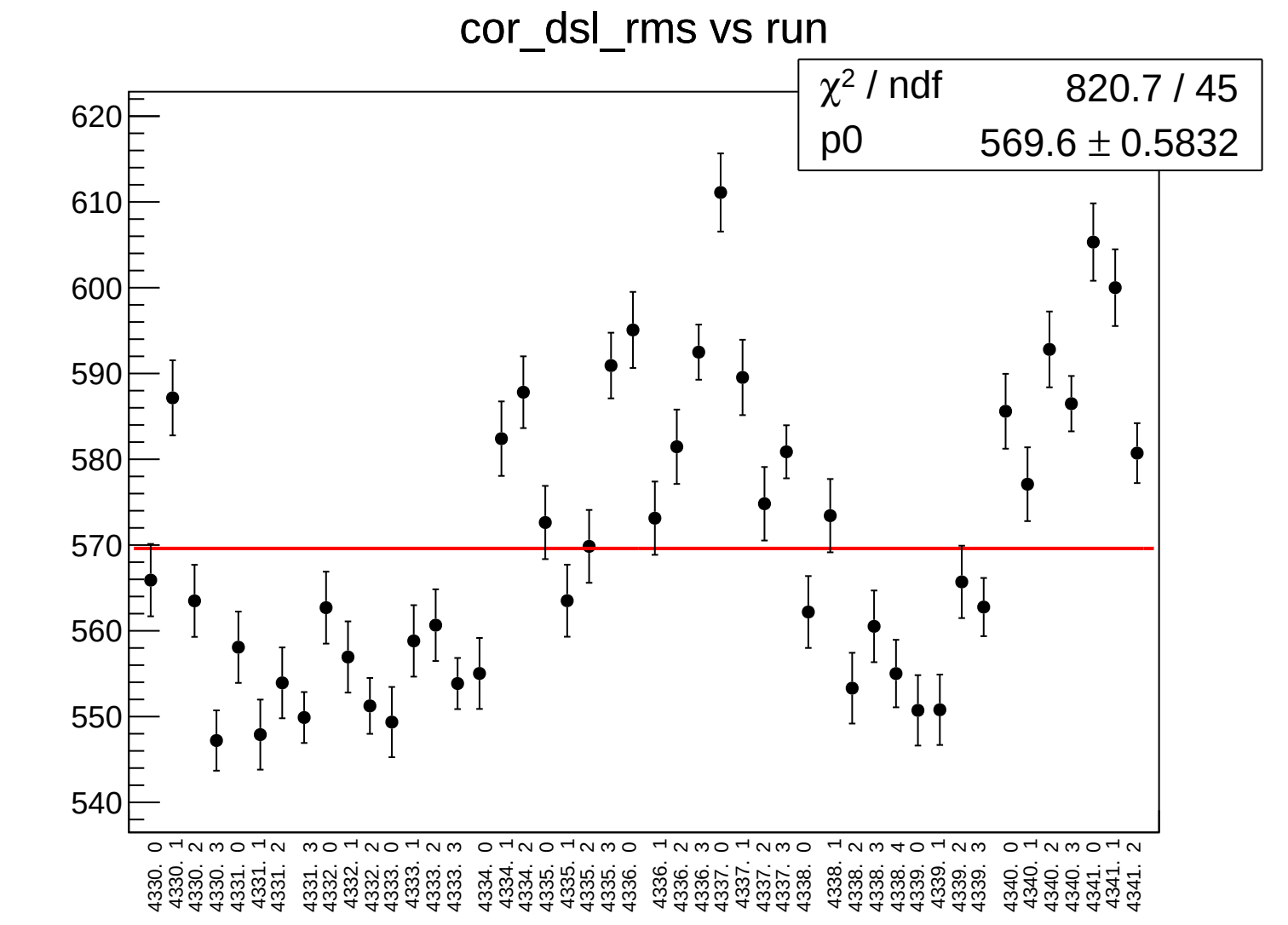

cor_usr_mean vs run
χ² / ndf 52.33 / 45
p0 522.2 ± 712.8
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 48.77
Std Dev 14.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

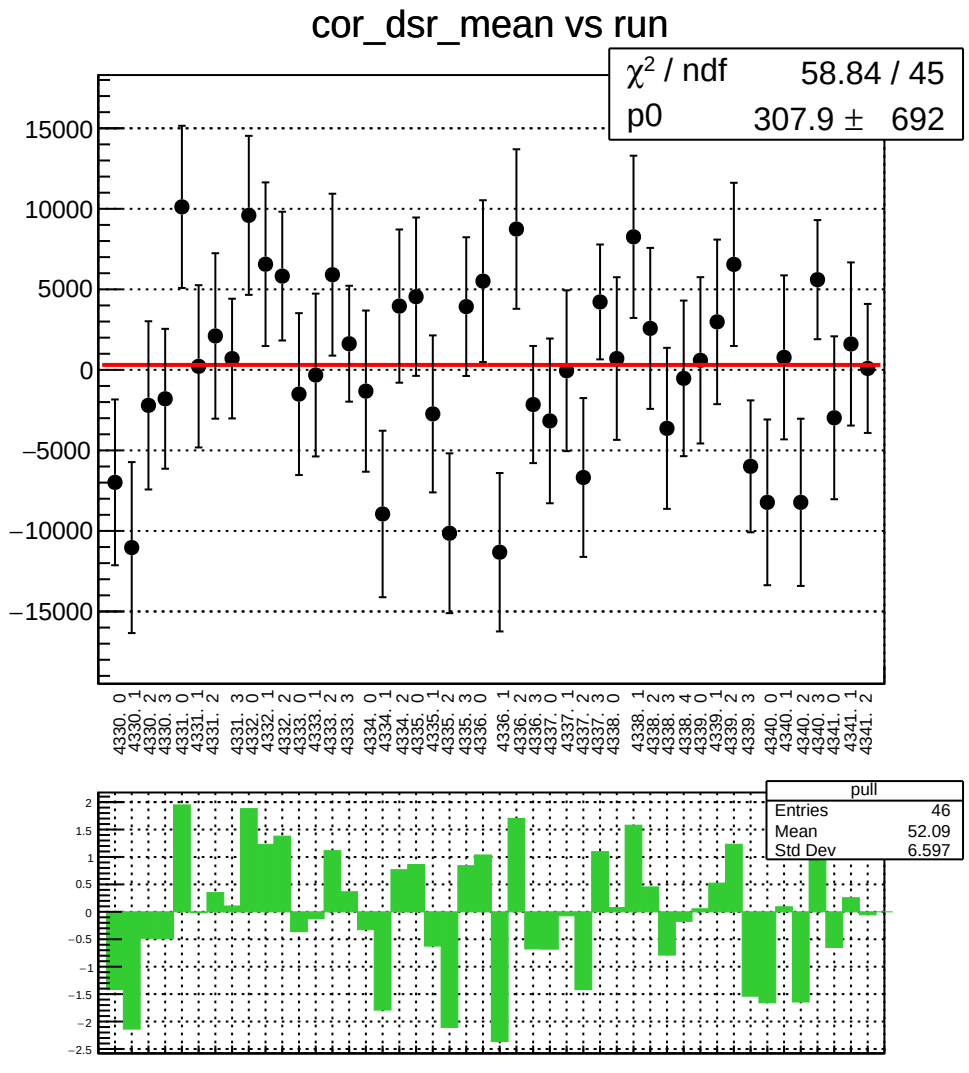

pull1D
Entries 46
Mean −0.02105
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

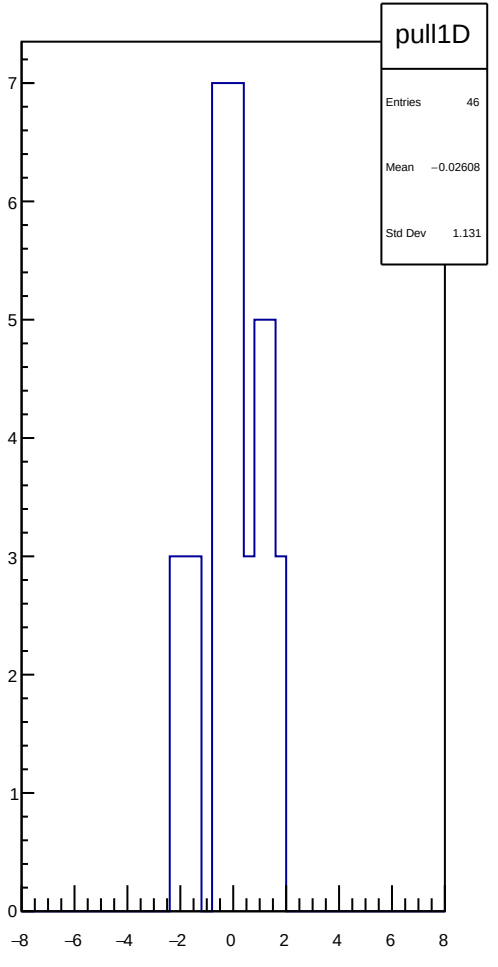

cor_usr_rms vs run
χ² / ndf 255.5 / 45
p0 492.4 ± 0.504
530
520
510
500
490
480
470
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

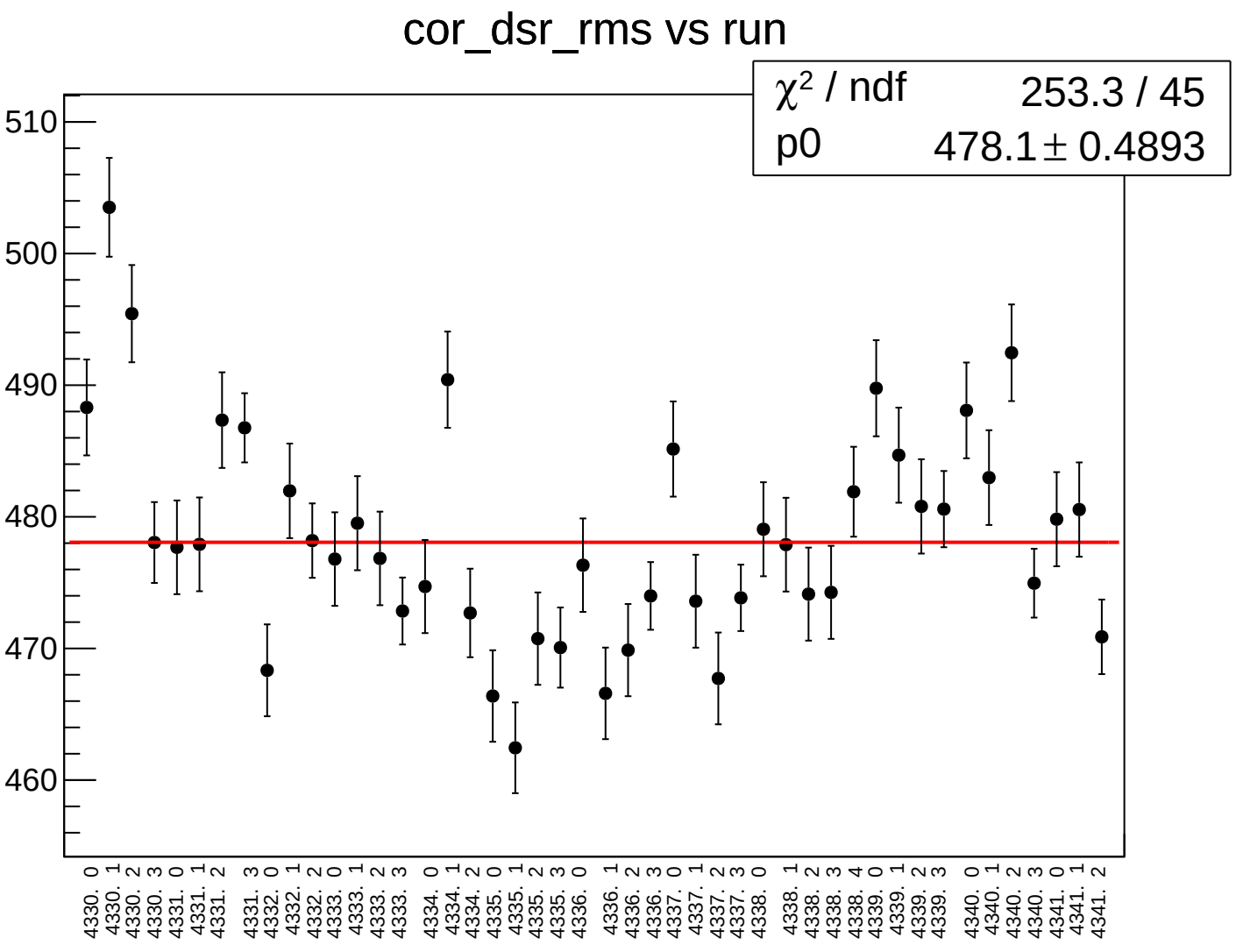

cor_dsl_mean vs run
χ² / ndf 31.18 / 45
p0 −1900 ± 824.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 145.7
Std Dev 122.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

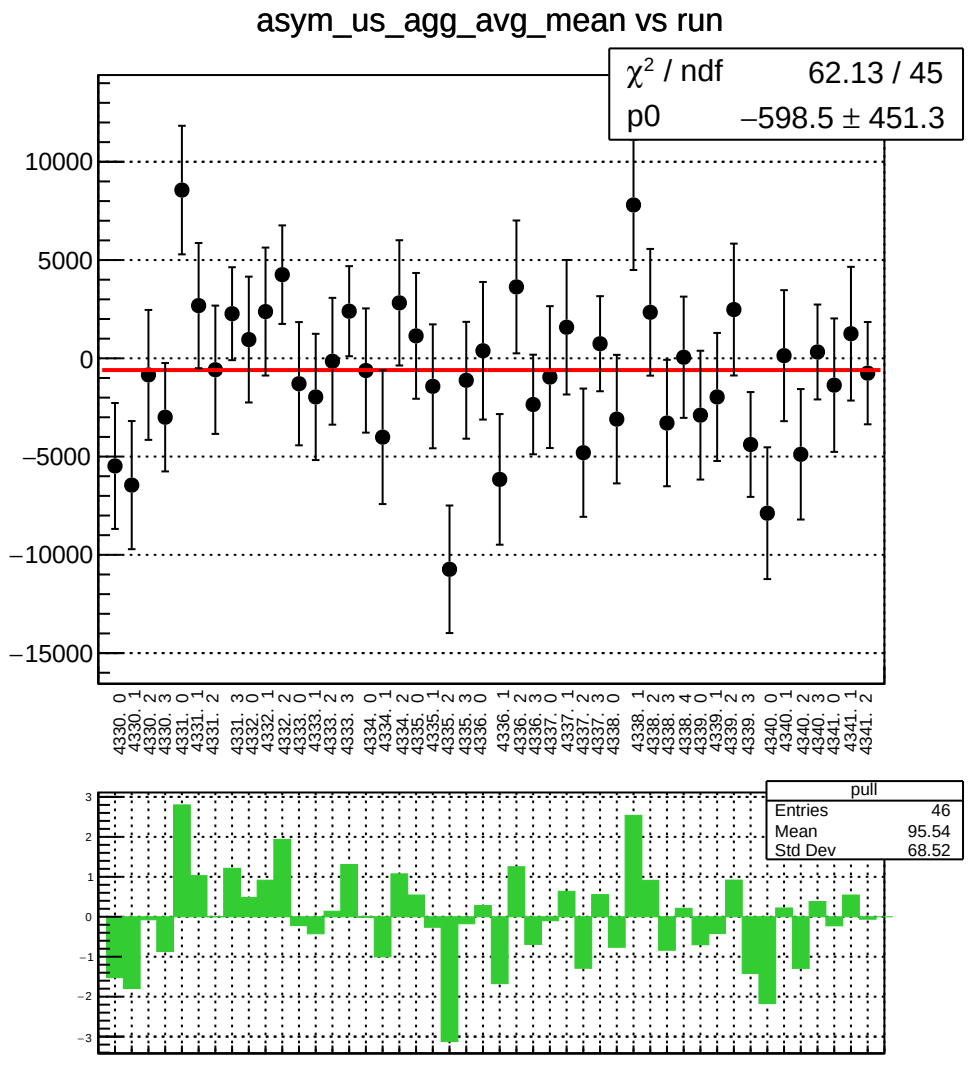

pull1D
Entries 46
Mean −0.01386
Std Dev 0.8232
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

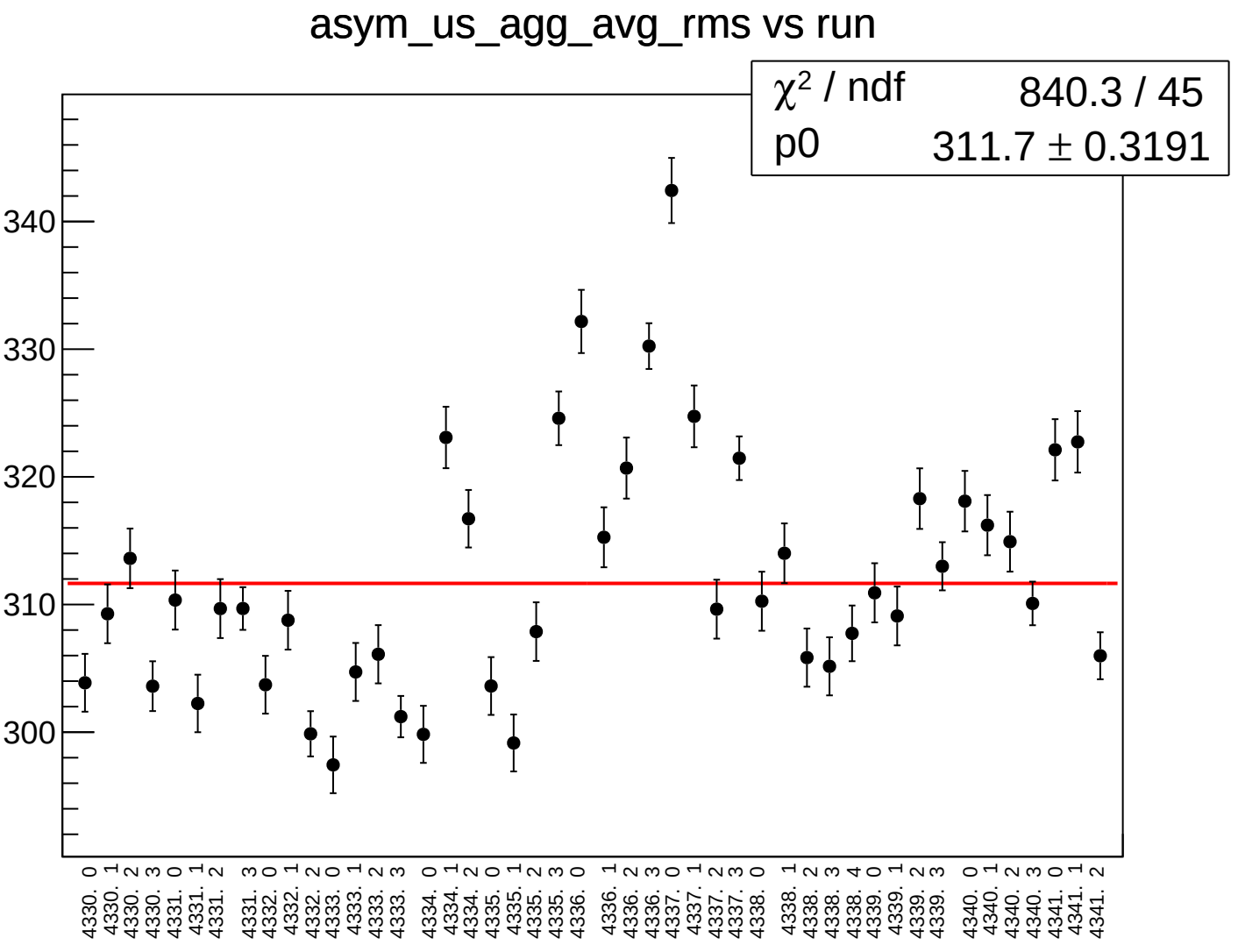

cor_dsl_rms vs run
χ² / ndf 820.7 / 45
p0 569.6 ± 0.5832
620
610
600
590
580
570
560
550
540
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

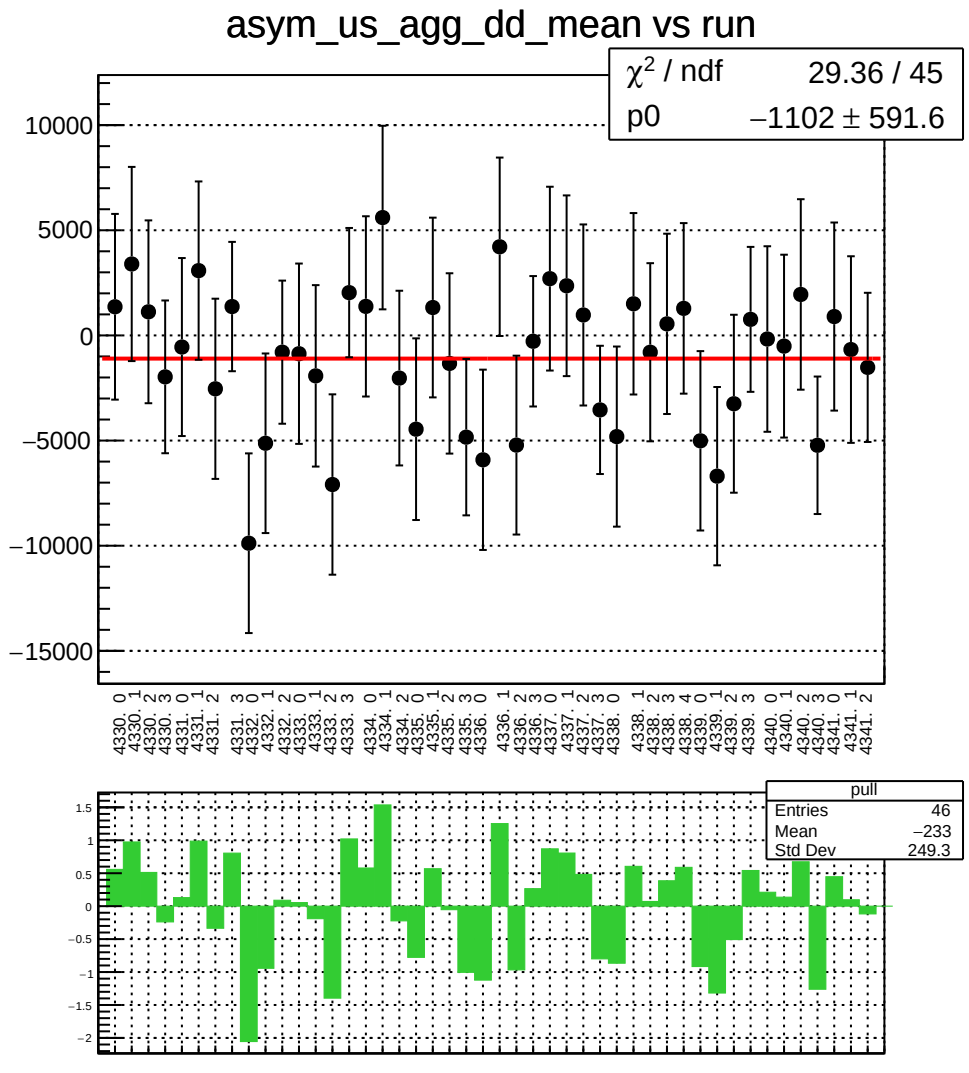

cor_dsr_mean vs run
χ² / ndf 58.84 / 45
p0 307.9 ± 692
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 52.09
Std Dev 6.597
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

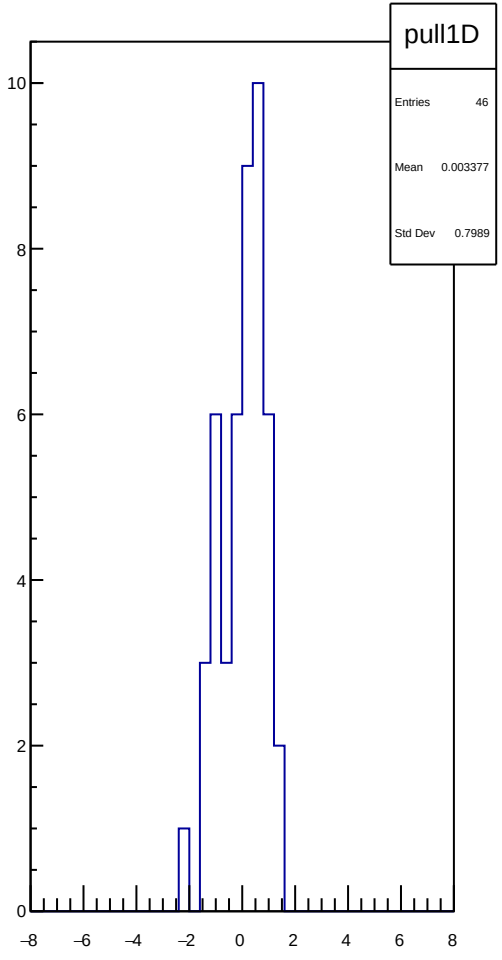

pull1D
Entries 46
Mean −0.02608
Std Dev 1.131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

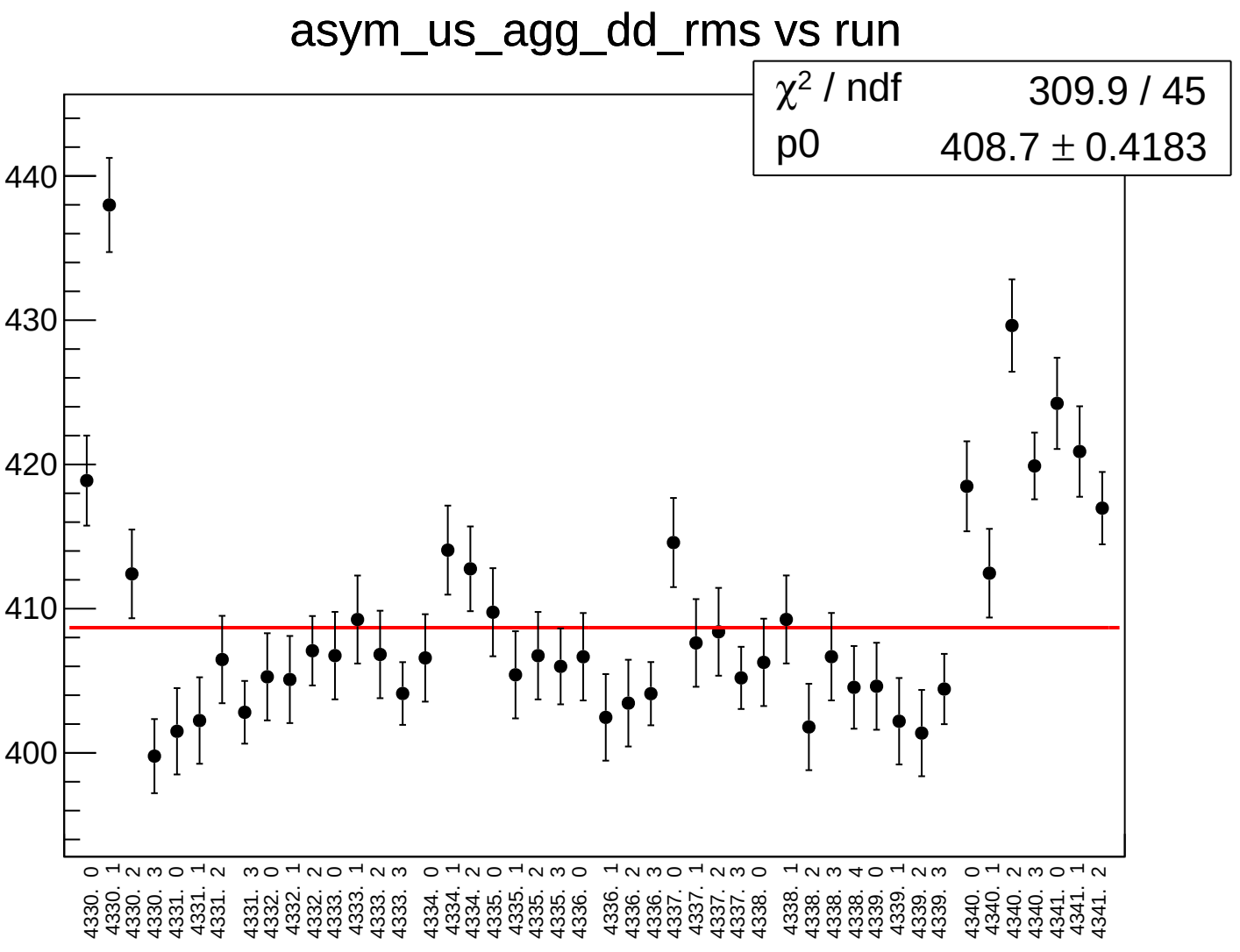

cor_dsr_rms vs run
χ² / ndf 253.3 / 45
p0 478.1 ± 0.4893
510
500
490
480
470
460
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

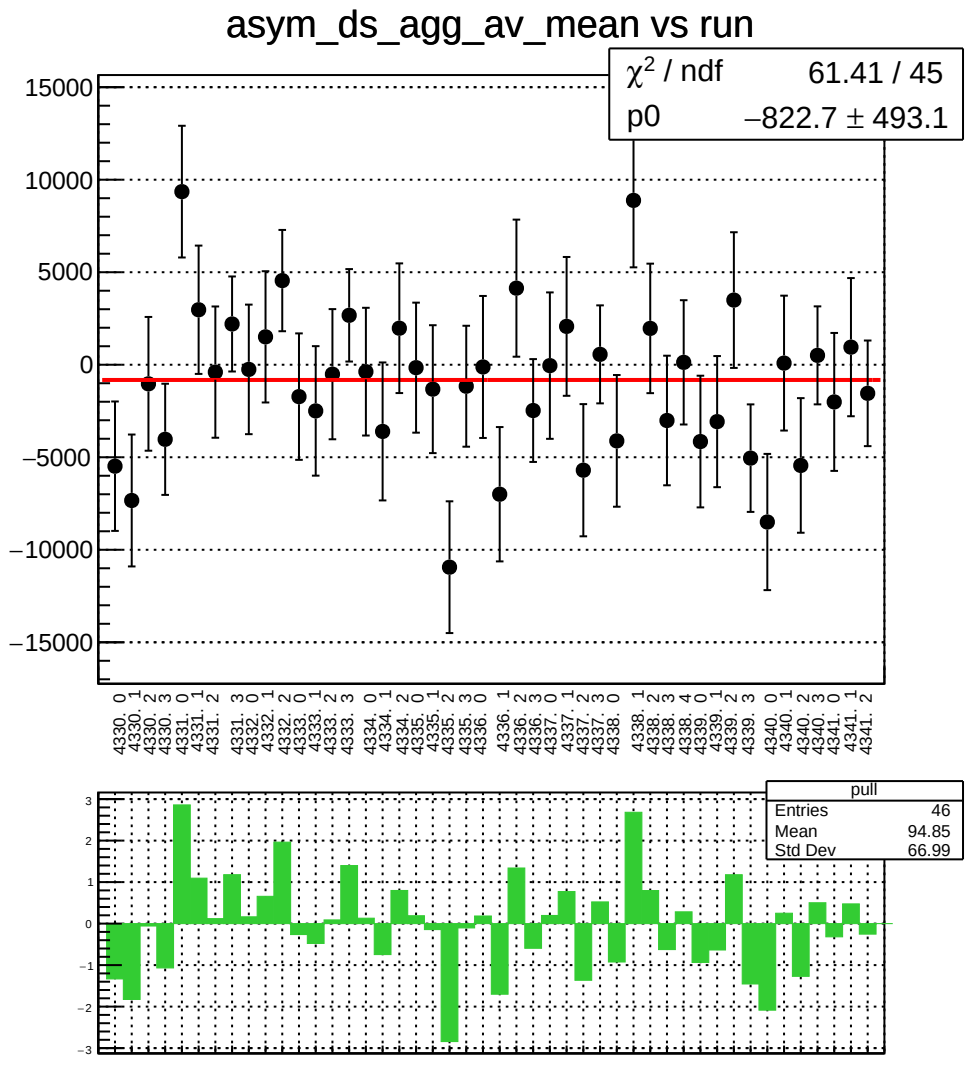

asym_us_agg_avg_mean vs run
χ² / ndf 62.13 / 45
p0 −598.5 ± 451.3
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 95.54
Std Dev 68.52
3
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.02656
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

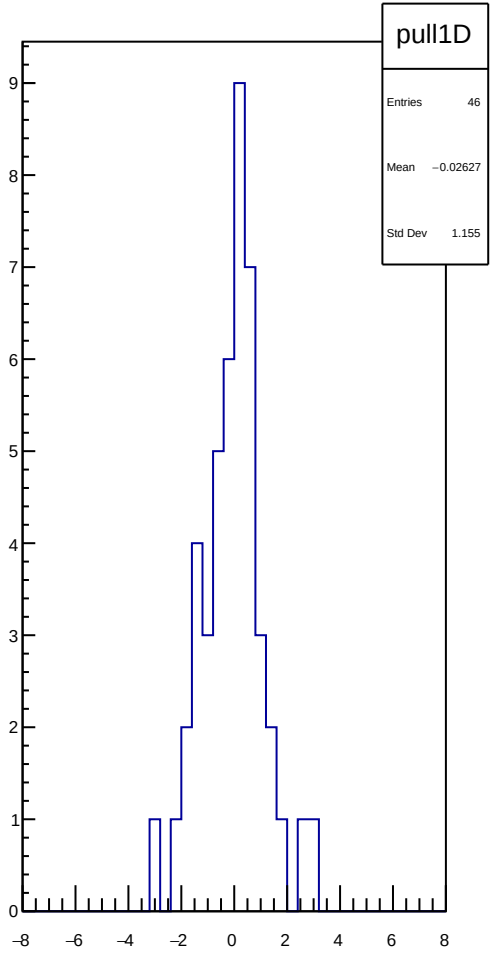

asym_us_agg_avg_rms vs run
χ² / ndf 840.3 / 45
p0 311.7 ± 0.3191
340
330
320
310
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

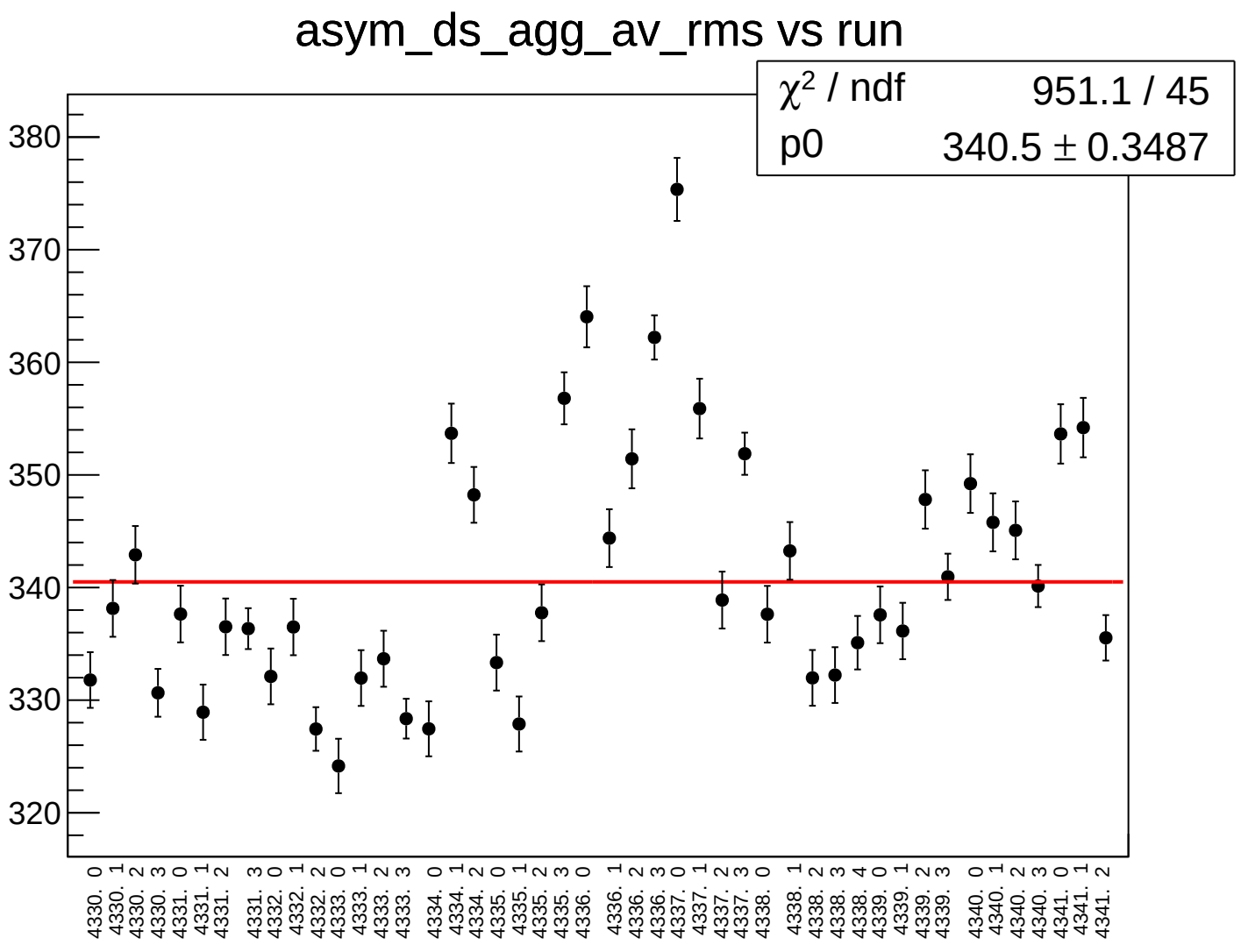

asym_us_agg_dd_mean vs run
χ² / ndf 29.36 / 45
p0 −1102 ± 591.6
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −233
Std Dev 249.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

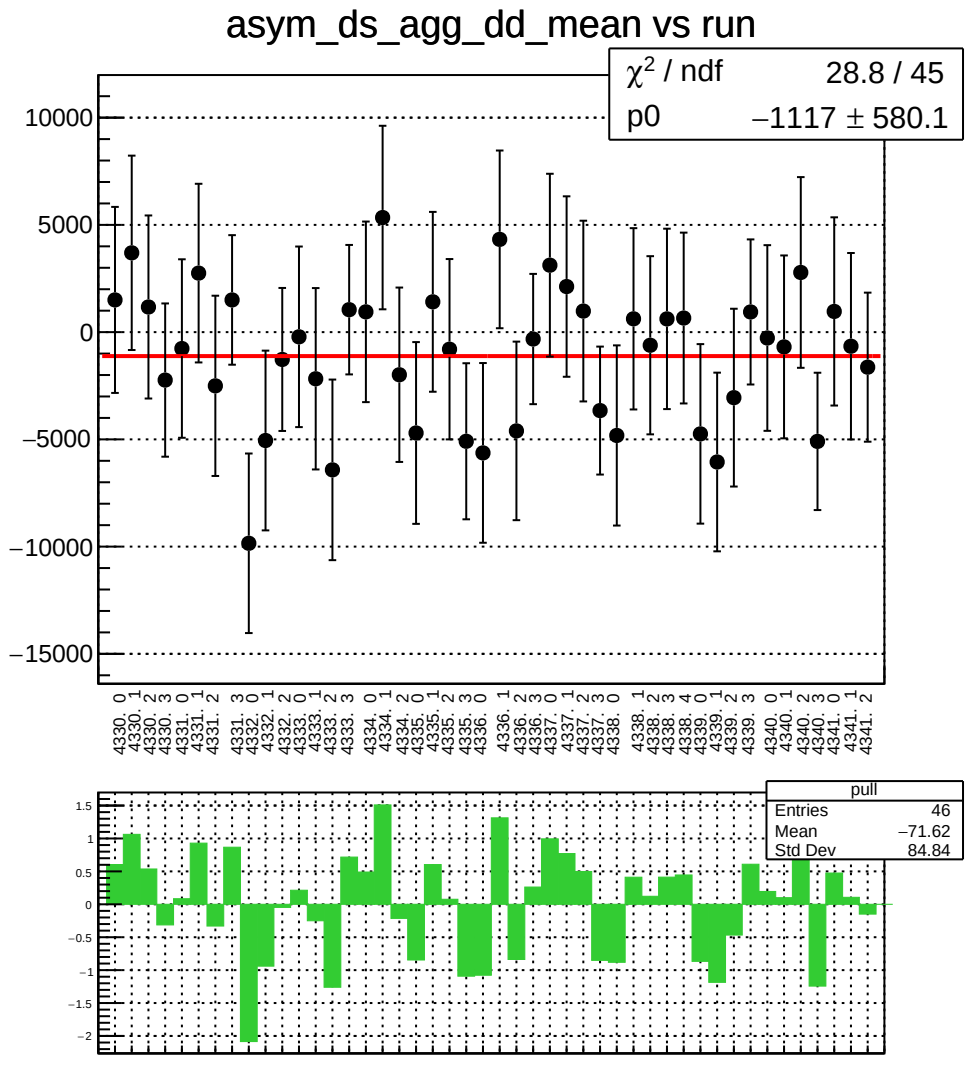

pull1D
Entries 46
Mean 0.003377
Std Dev 0.7989
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

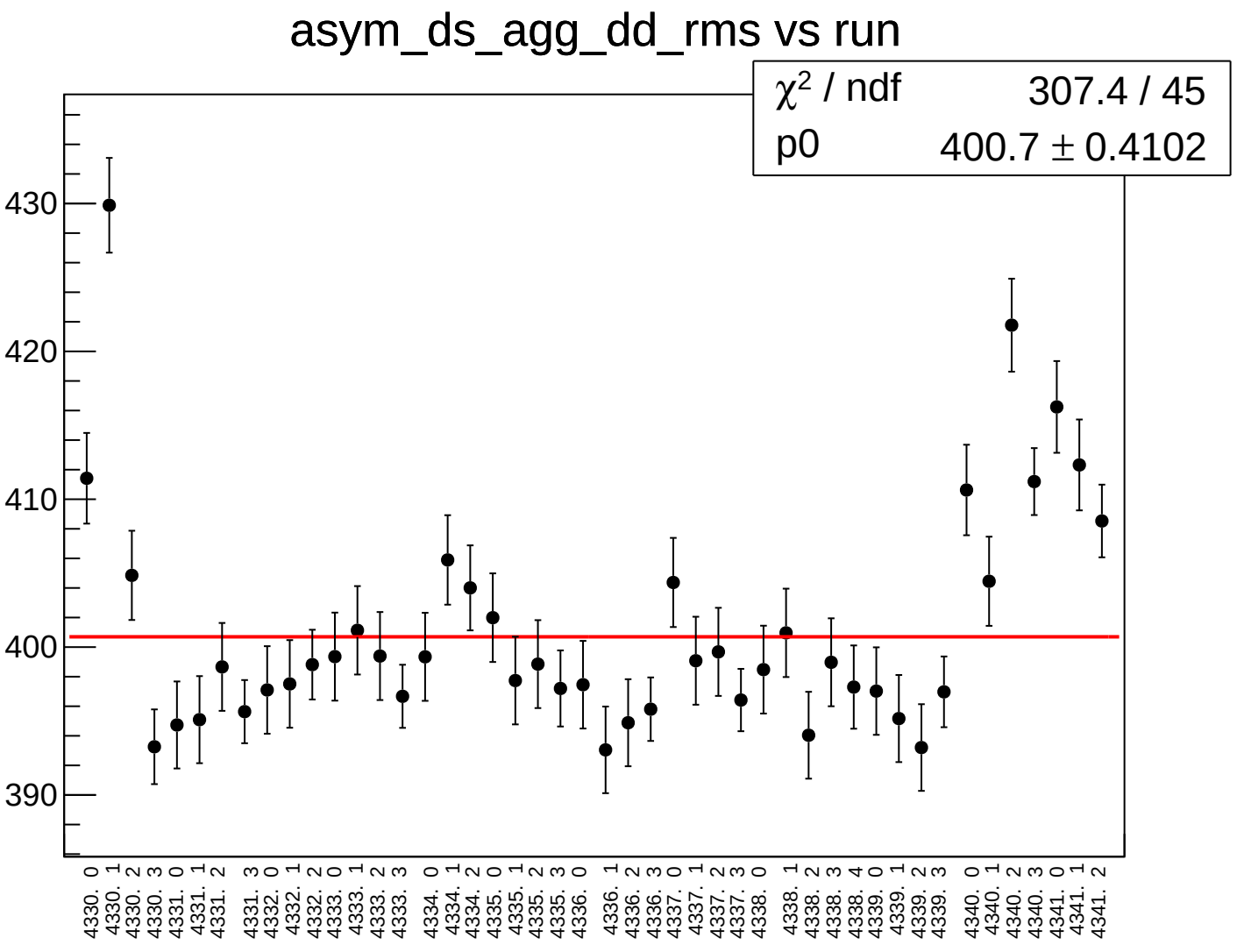

asym_us_agg_dd_rms vs run
χ² / ndf 309.9 / 45
p0 408.7 ± 0.4183
440
430
420
410
400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

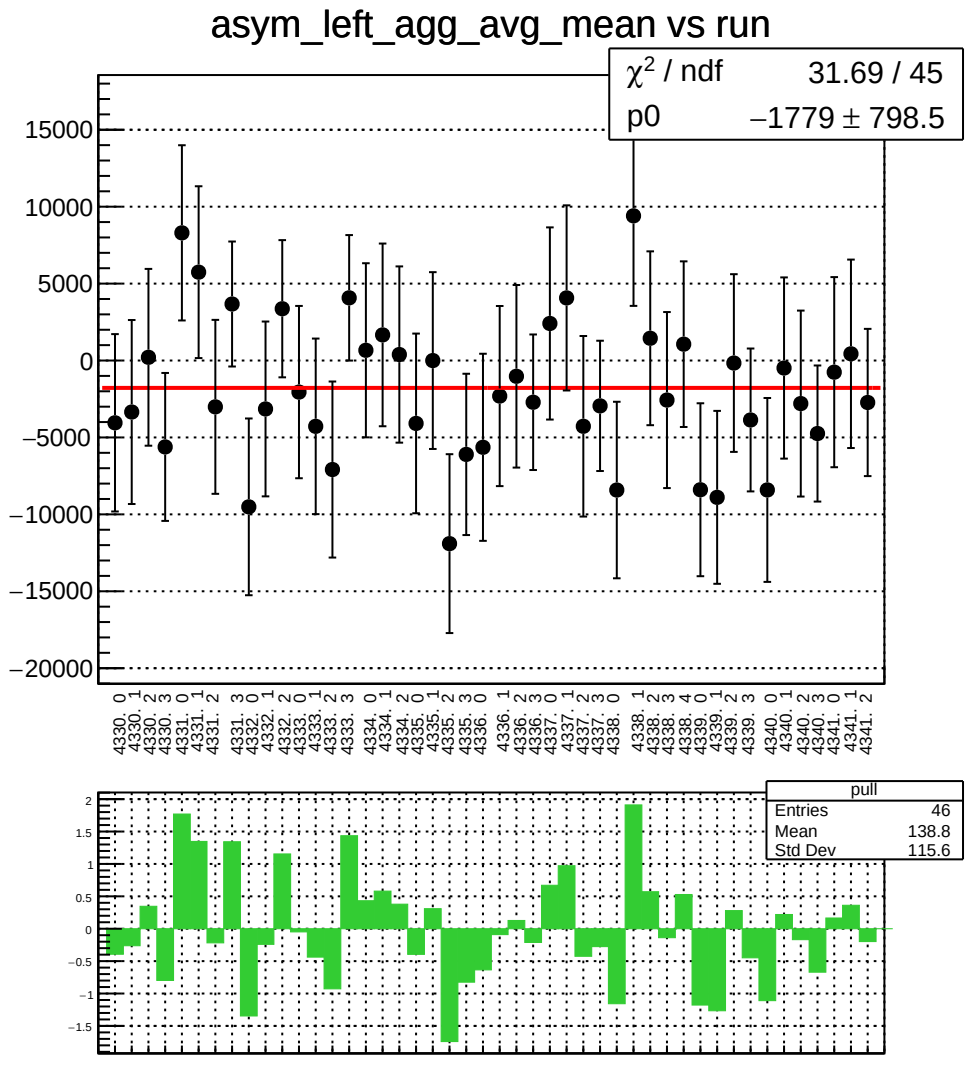

asym_ds_agg_av_mean vs run
χ² / ndf 61.41 / 45
p0 −822.7 ± 493.1
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 94.85
Std Dev 66.99
3
2
1
0
−1
−2
−3

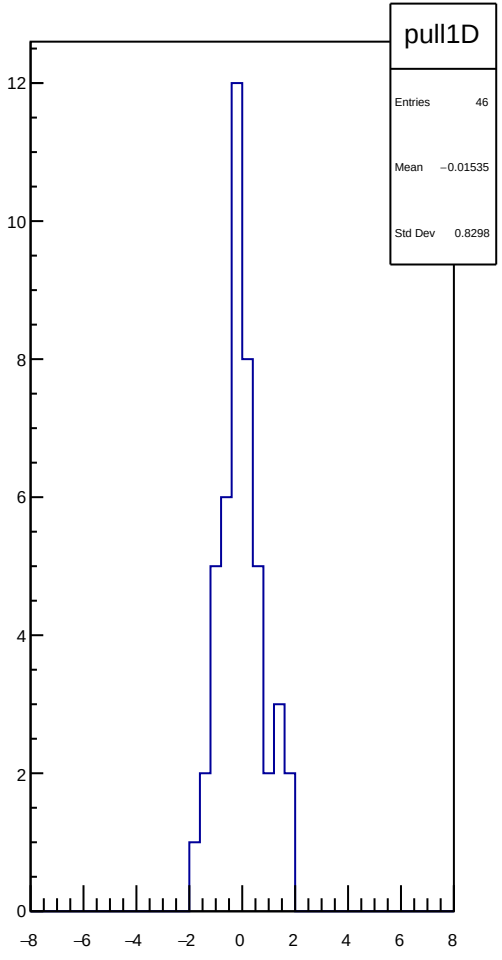

pull1D
Entries 46
Mean −0.02627
Std Dev 1.155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

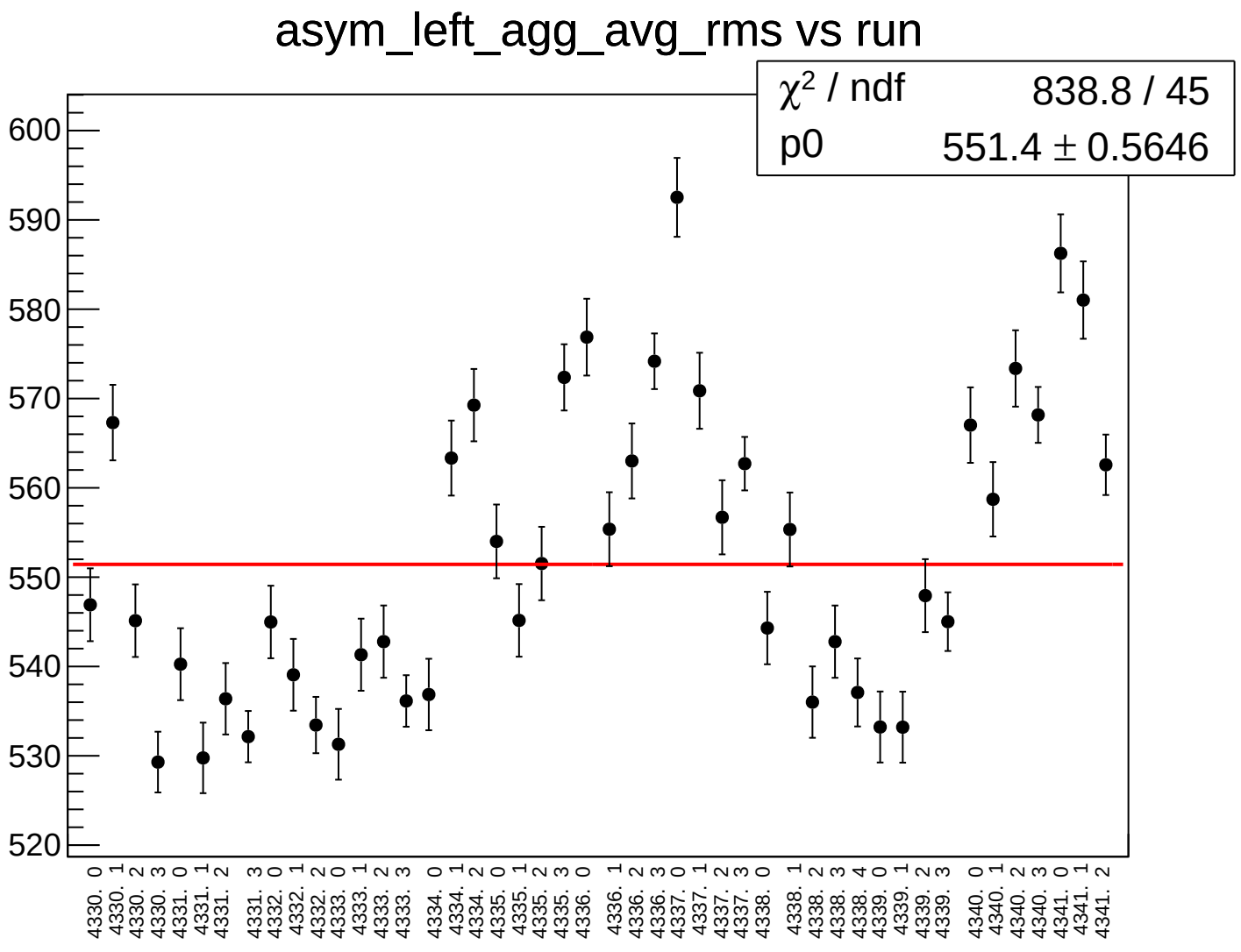

asym_ds_agg_av_rms vs run
χ² / ndf 951.1 / 45
p0 340.5 ± 0.3487
380
370
360
350
340
330
320
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

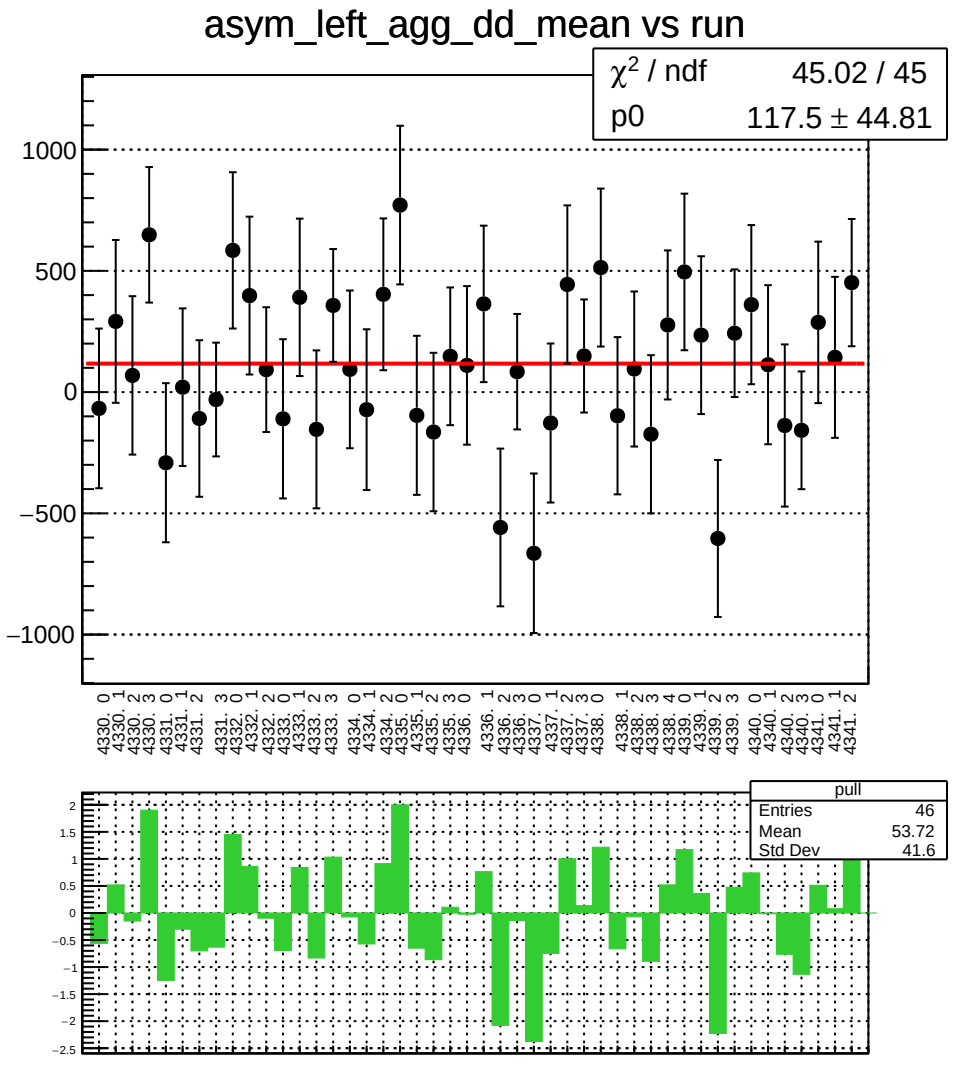

asym_ds_agg_dd_mean vs run
χ² / ndf 28.8 / 45
p0 −1117 ± 580.1
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −71.62
Std Dev 84.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.007598
Std Dev 0.7912
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

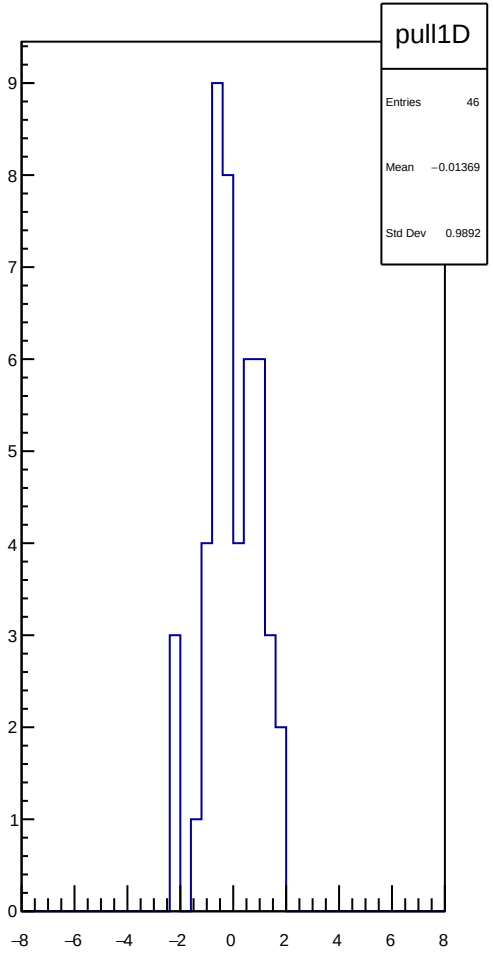

asym_ds_agg_dd_rms vs run
χ² / ndf 307.4 / 45
p0 400.7 ± 0.4102
430
420
410
400
390
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

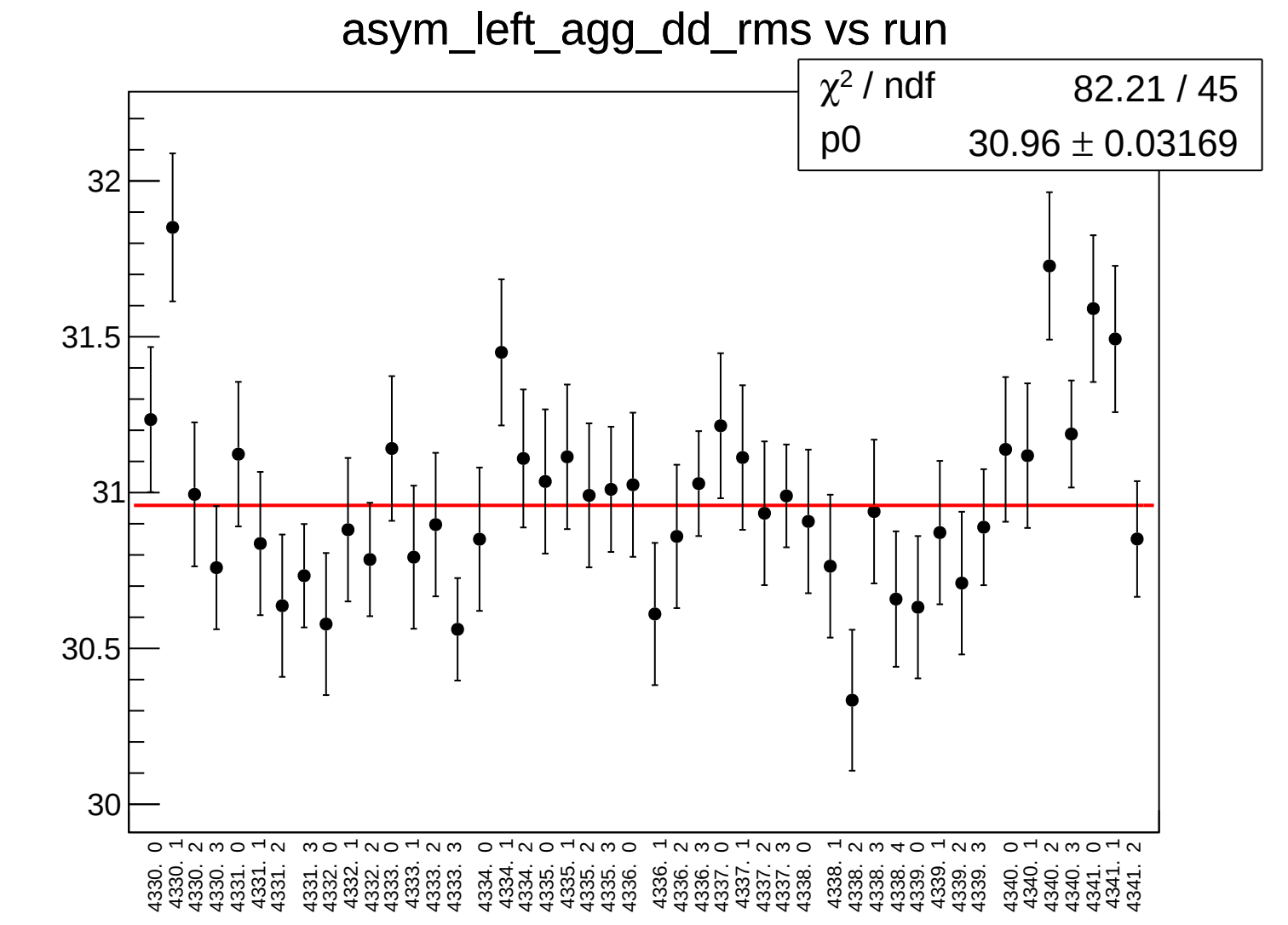

asym_left_agg_avg_mean vs run
χ² / ndf 31.69 / 45
p0 −1779 ± 798.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 138.8
Std Dev 115.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

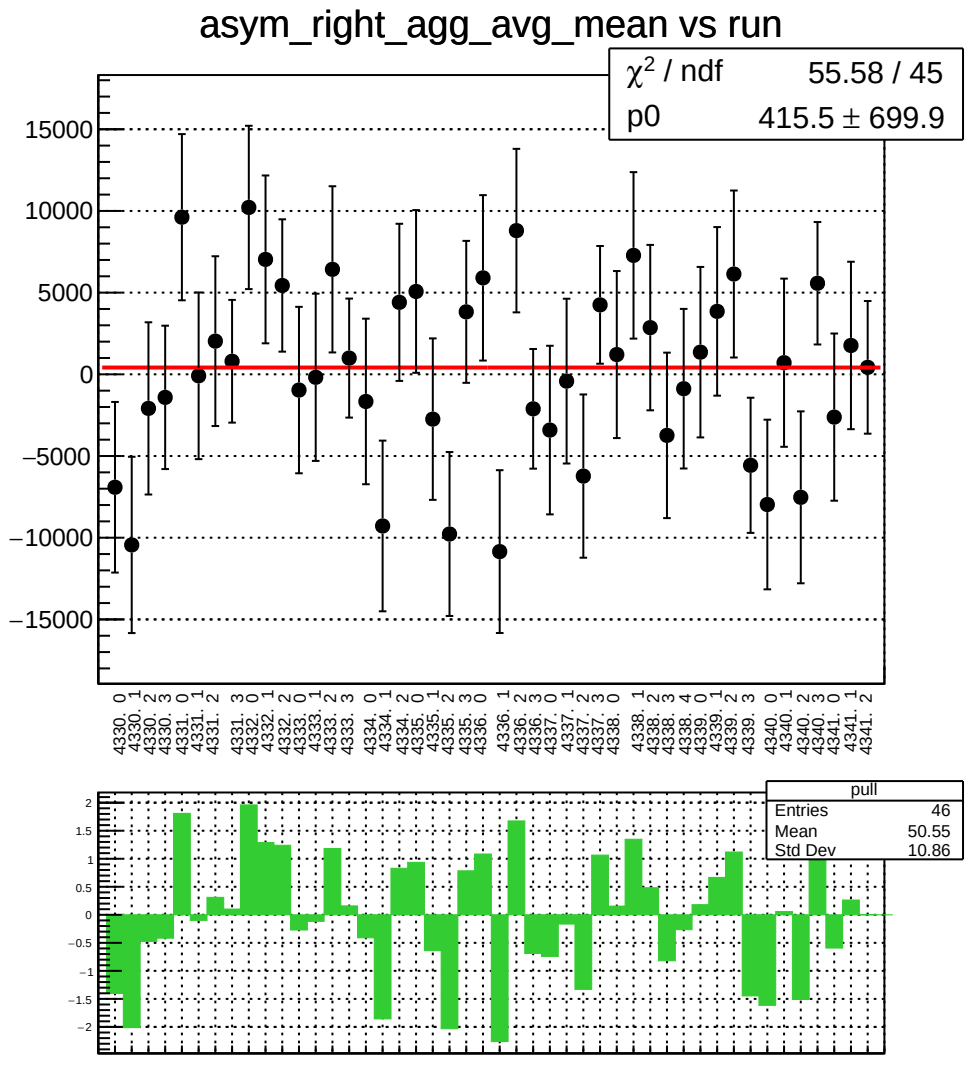

pull1D
Entries 46
Mean −0.01535
Std Dev 0.8298
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

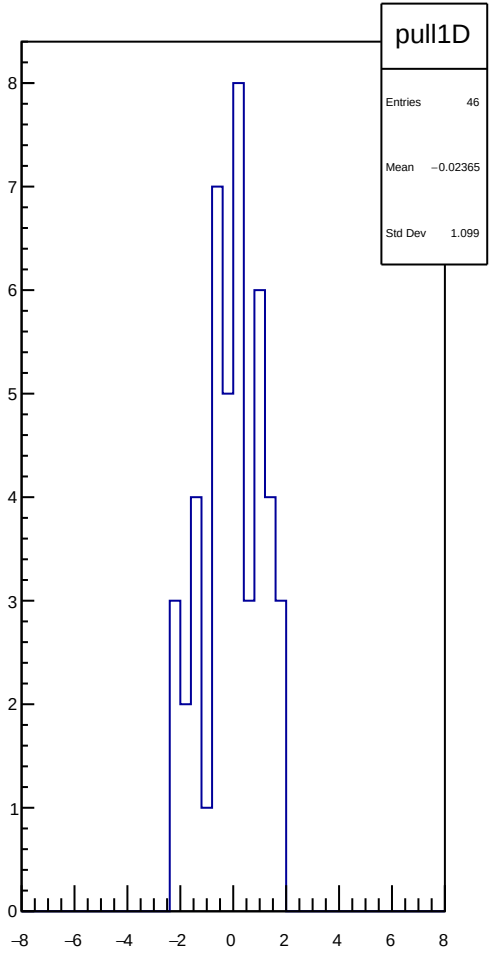

asym_left_agg_avg_rms vs run
χ^2 / ndf 838.8 / 45
p0 551.4 ± 0.5646
600
590
580
570
560
550
540
530
520
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

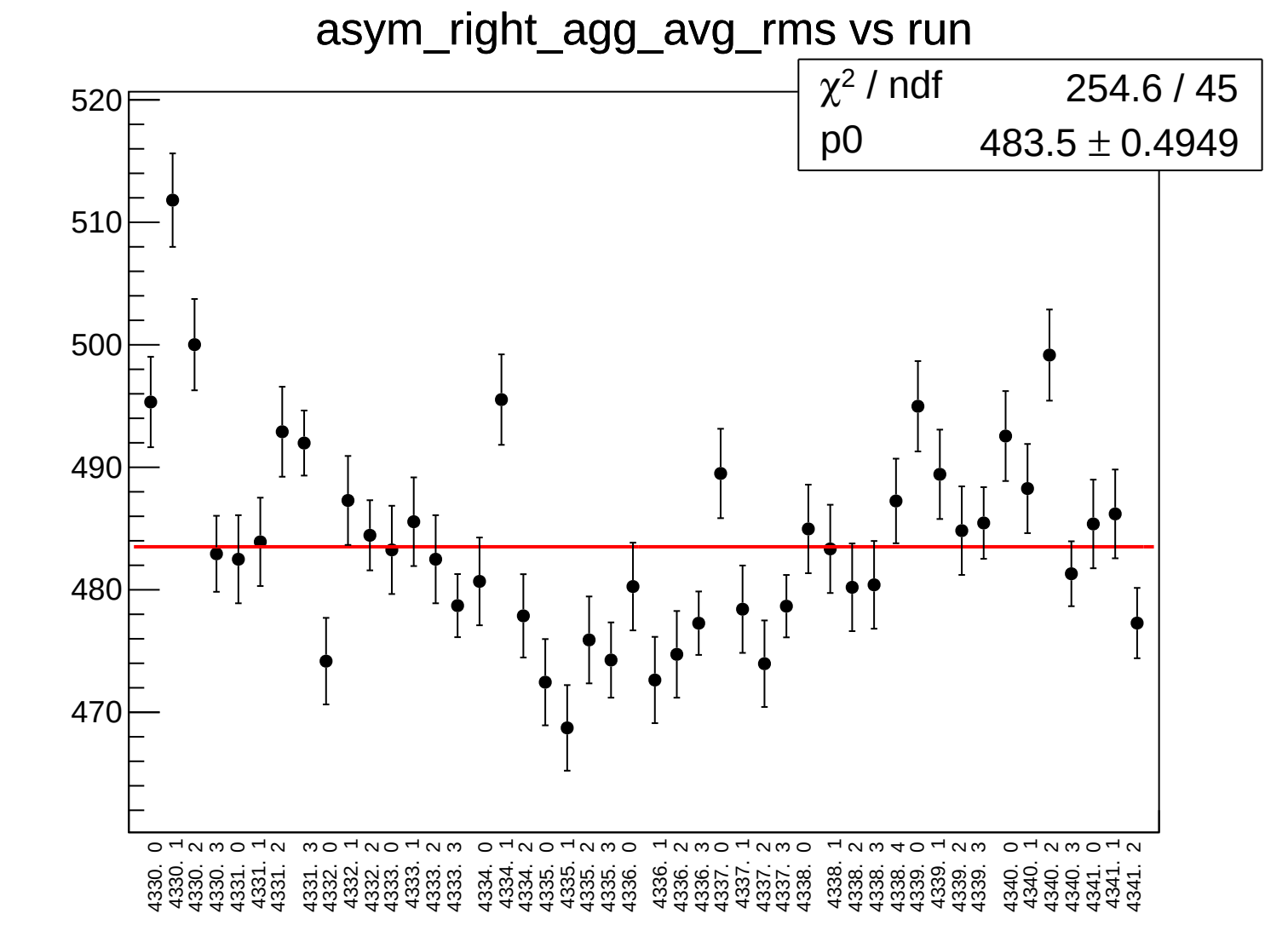

asym_left_agg_dd_mean vs run
χ² / ndf 45.02 / 45
p0 117.5 ± 44.81
1000
500
0
−500
−1000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 53.72
Std Dev 41.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

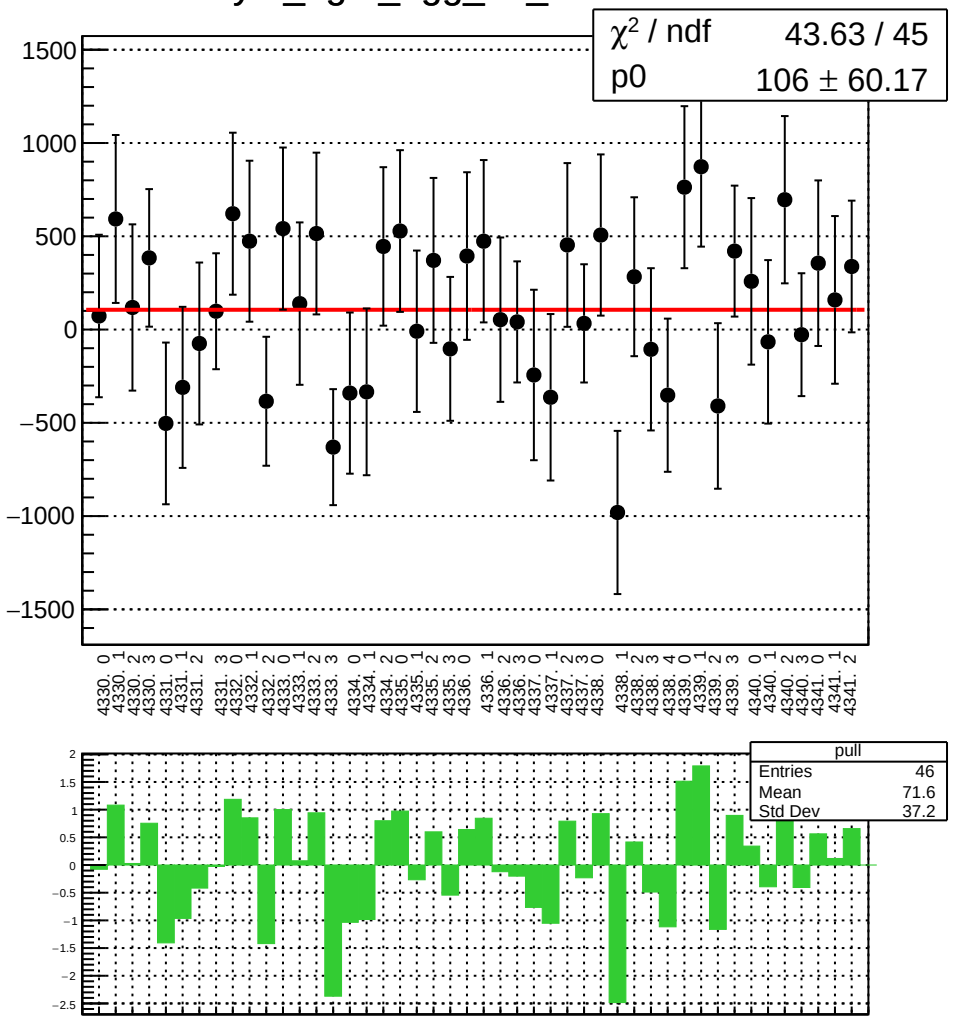

pull1D
Entries 46
Mean −0.01369
Std Dev 0.9892
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

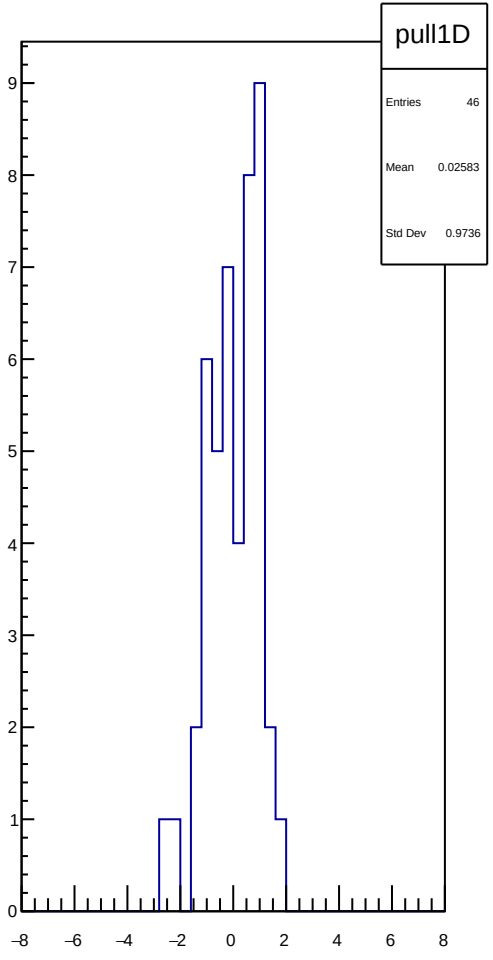

asym_left_agg_dd_rms vs run
χ² / ndf 82.21 / 45
p0 30.96 ± 0.03169
32
31.5
31
30.5
30
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

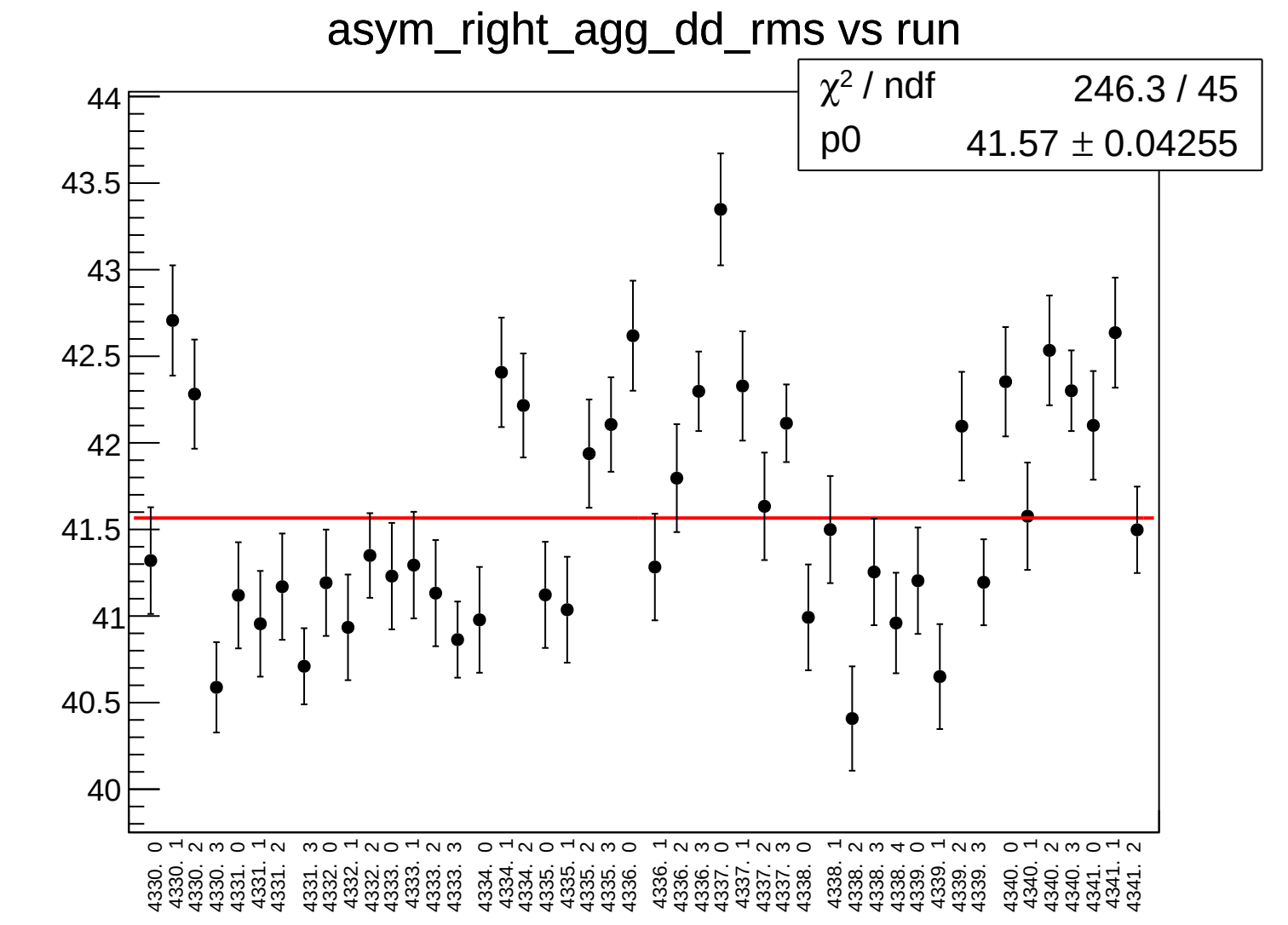

asym_right_agg_avg_mean vs run
χ² / ndf 55.58 / 45
p0 415.5 ± 699.9
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 50.55
Std Dev 10.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

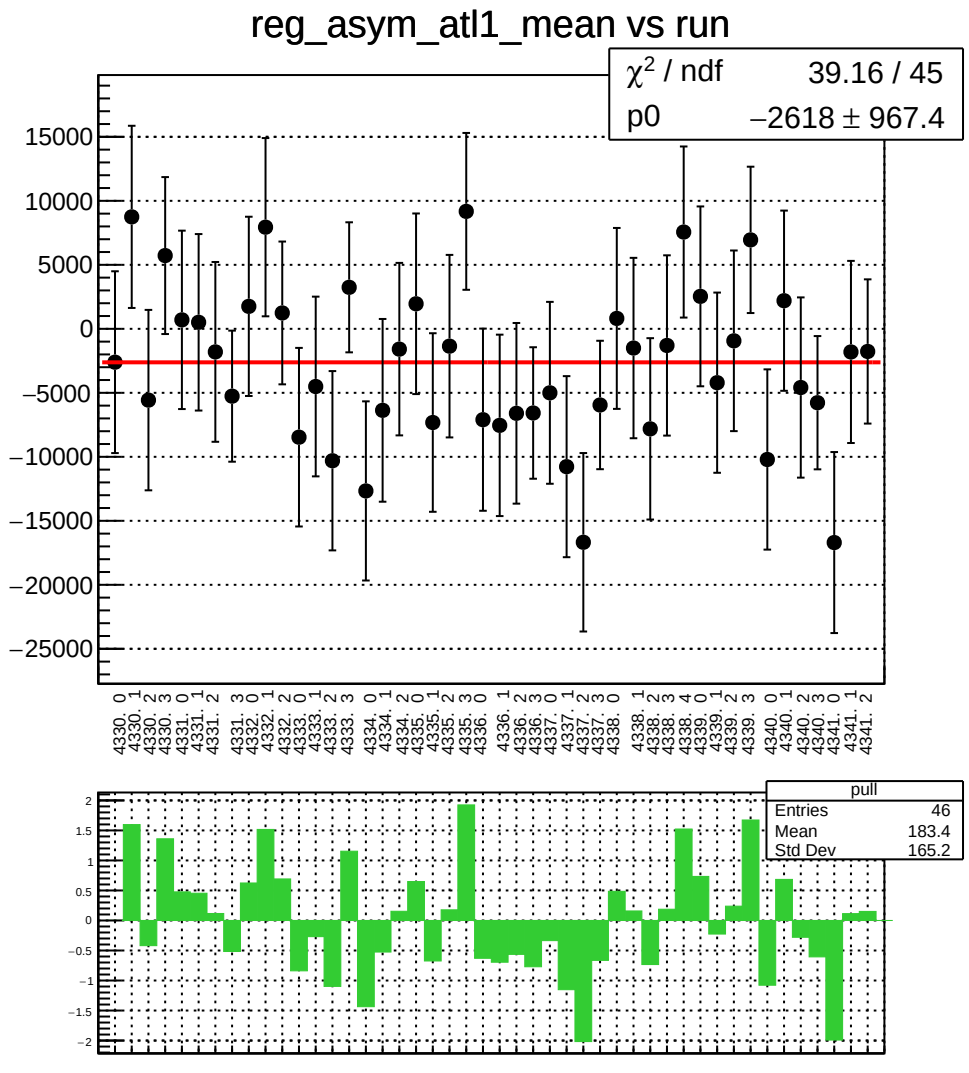

pull1D
Entries 46
Mean −0.02365
Std Dev 1.099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

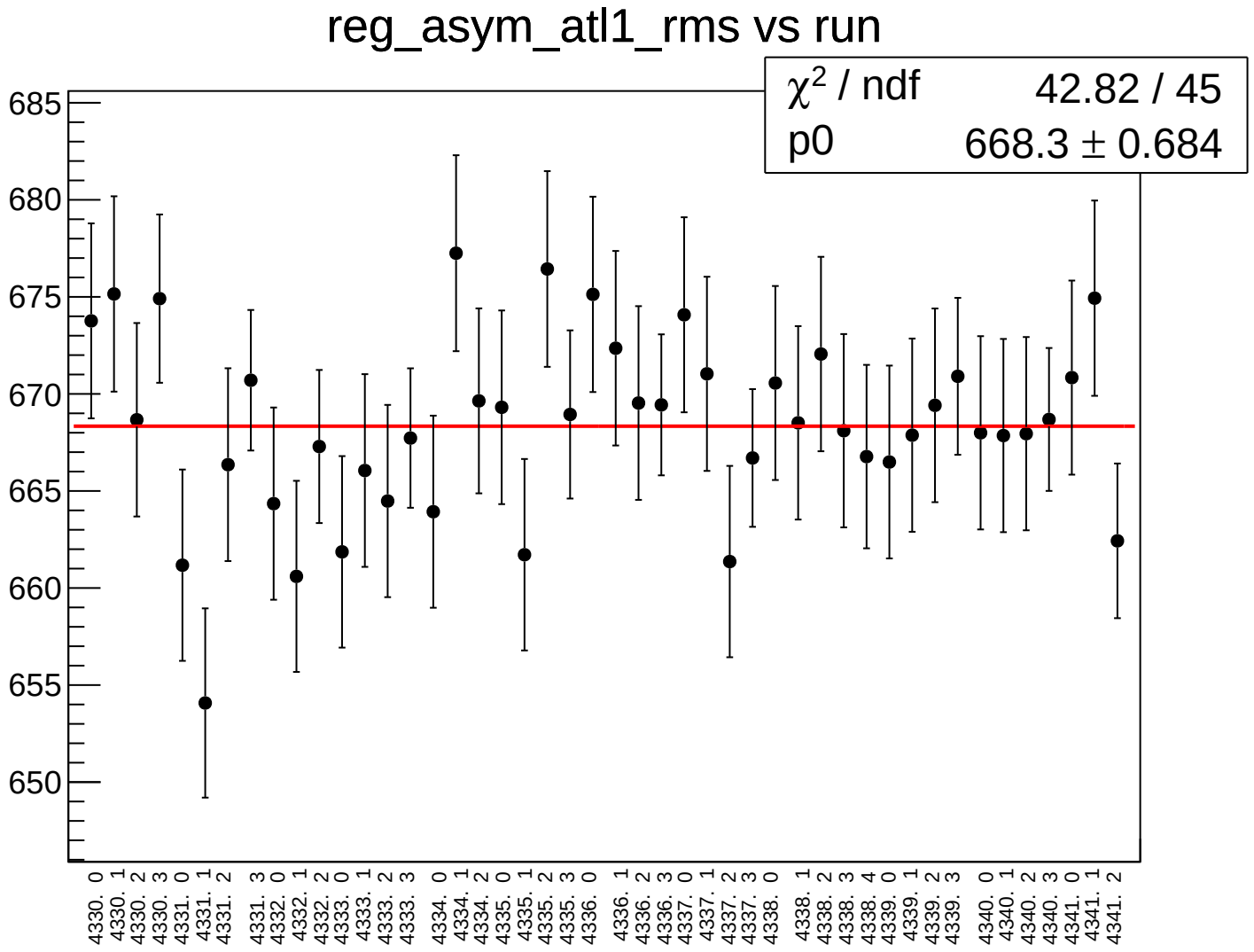

asym_right_agg_avg_rms vs run
χ² / ndf 254.6 / 45
p0 483.5 ± 0.4949
520
510
500
490
480
470
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

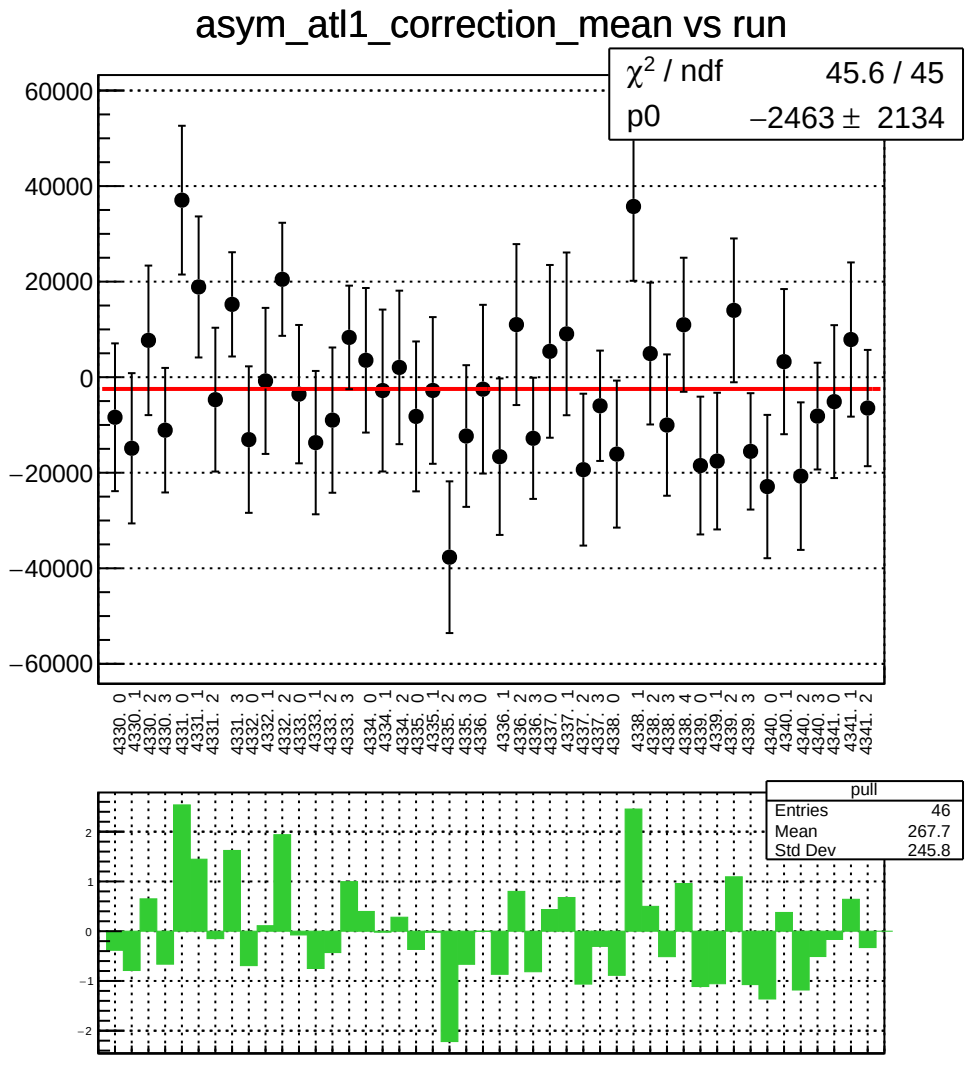

asym_right_agg_dd_mean vs run
χ² / ndf 43.63 / 45
p0 106 ± 60.17
1500
1000
500
0
−500
−1000
−1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 71.6
Std Dev 37.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

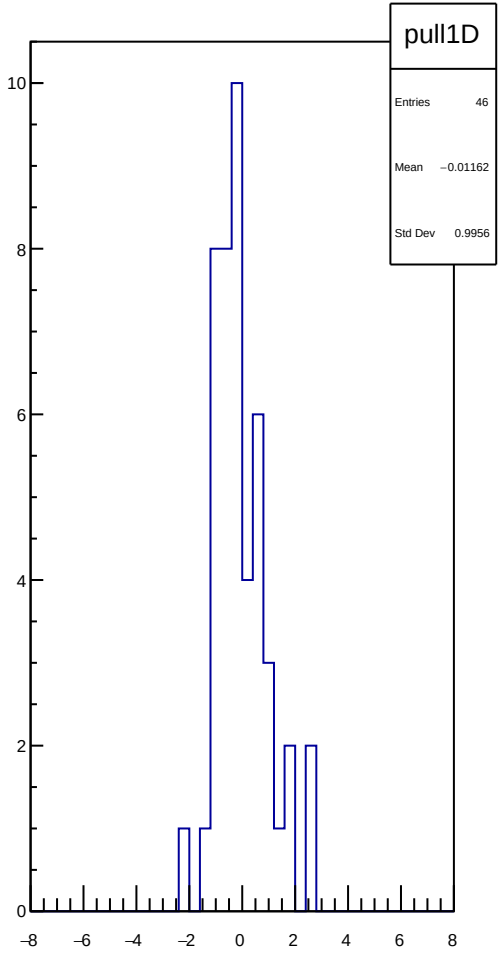

pull1D
Entries 46
Mean 0.02583
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

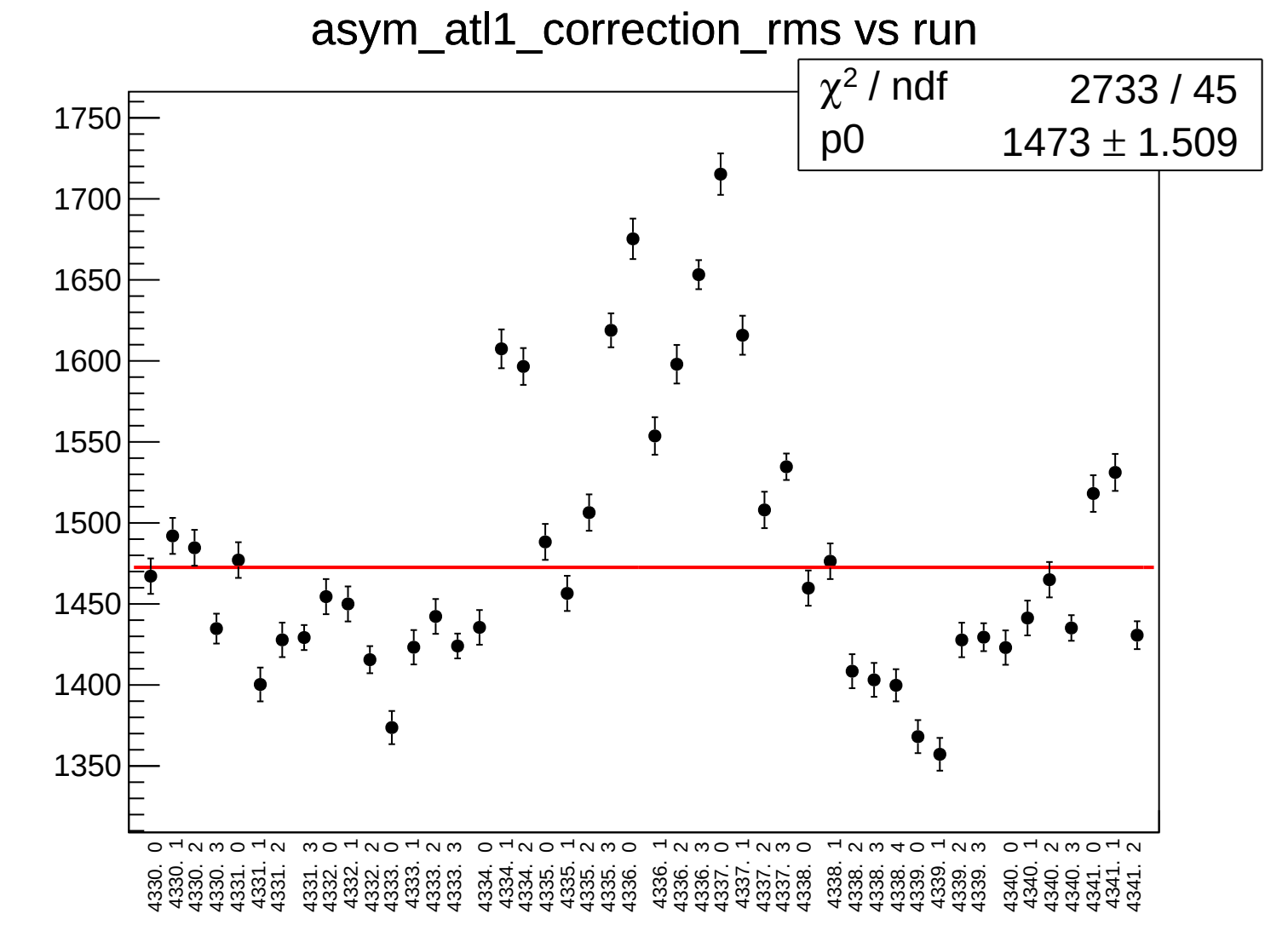

asym_right_agg_dd_rms vs run
χ² / ndf 246.3 / 45
p0 41.57 ± 0.04255
44
43.5
43
42.5
42
41.5
41
40.5
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

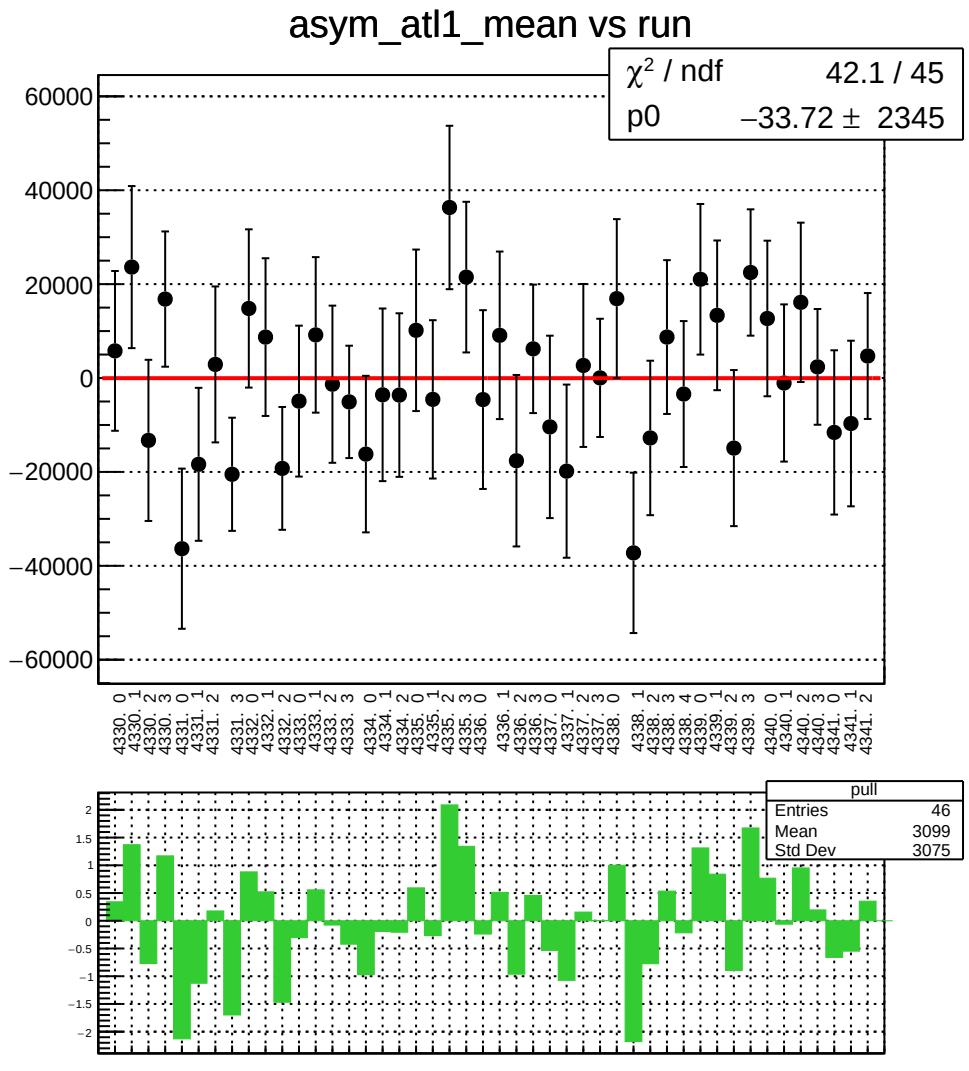

reg_asym_atl1_mean vs run
χ² / ndf 39.16 / 45
p0 −2618 ± 967.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 183.4
Std Dev 165.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01463
Std Dev 0.9225
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

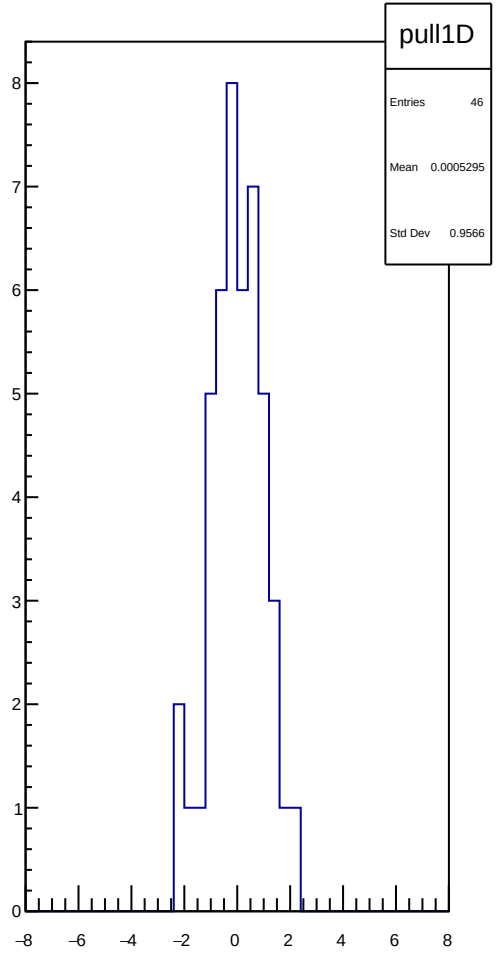

reg_asym_atl1_rms vs run
χ² / ndf 42.82 / 45
p0 668.3 ± 0.684
685
680
675
670
665
660
655
650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

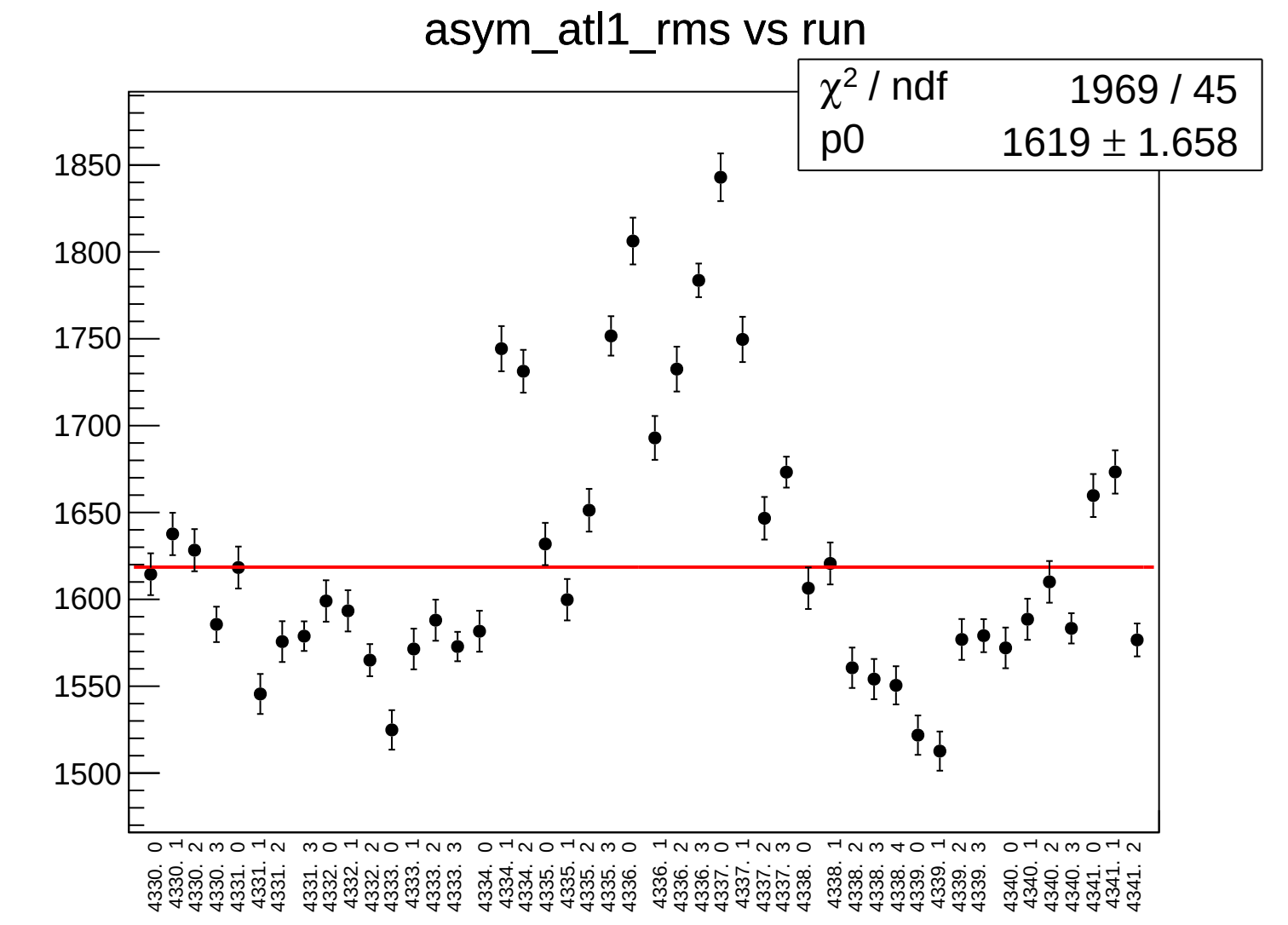

asym_atl1_correction_mean vs run
χ² / ndf 45.6 / 45
p0 −2463 ± 2134
60000
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 267.7
Std Dev 245.8
2
1
0
−1
−2

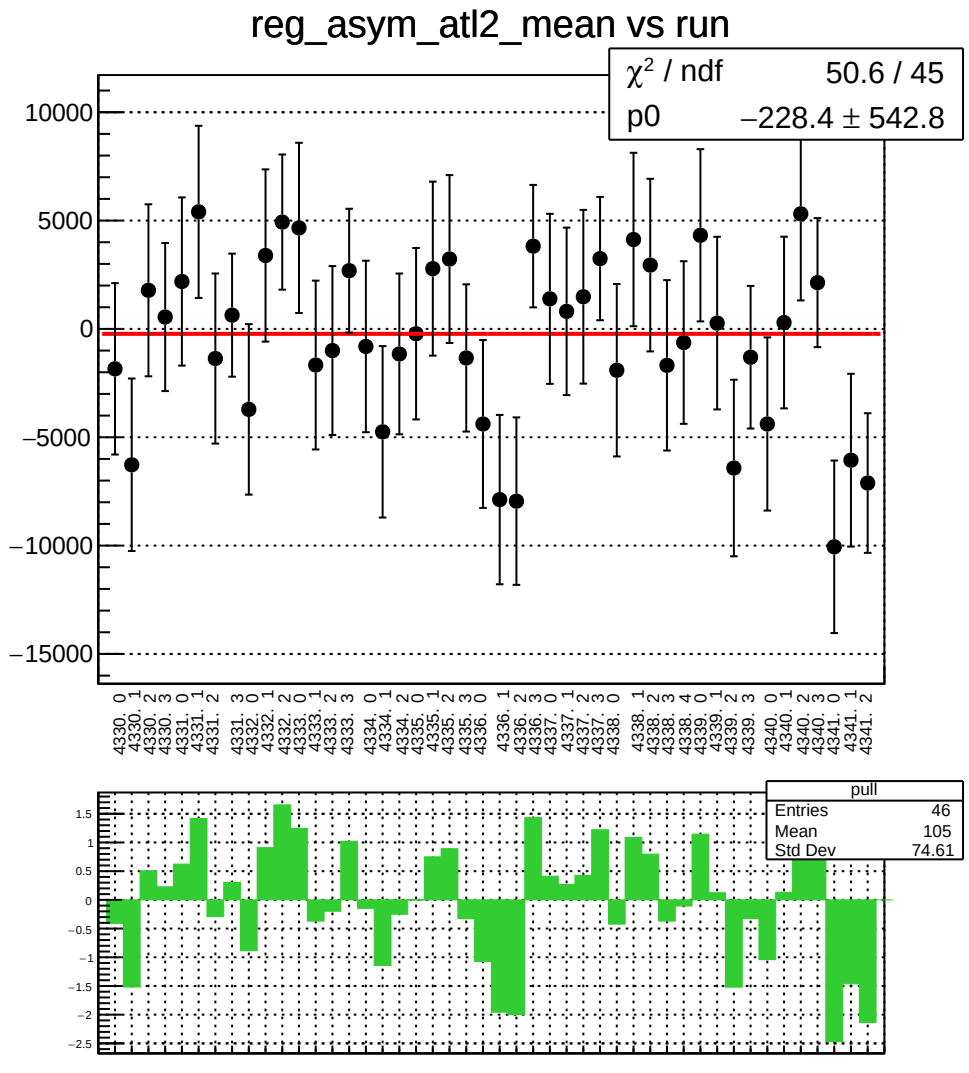

pull1D
Entries 46
Mean −0.01162
Std Dev 0.9956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

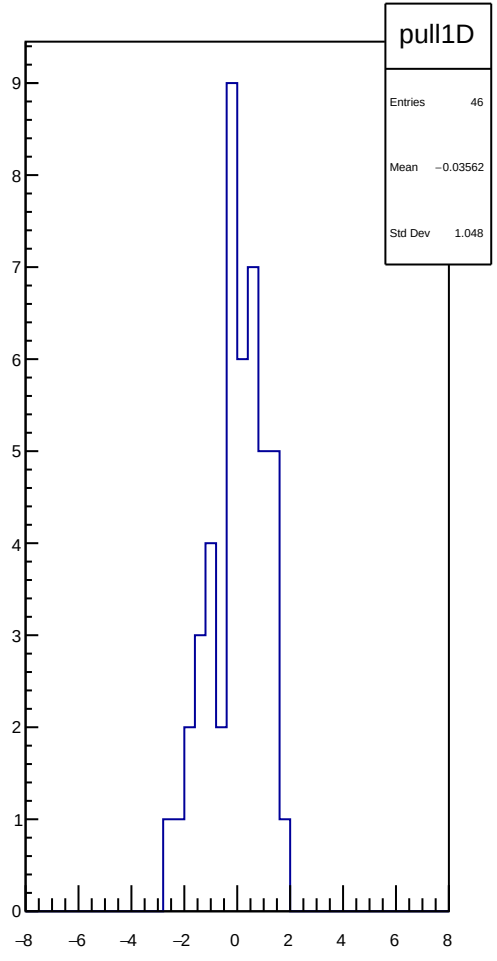

asym_atl1_correction_rms vs run
χ² / ndf 2733 / 45
p0 1473 ± 1.509
1750
1700
1650
1600
1550
1500
1450
1400
1350
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

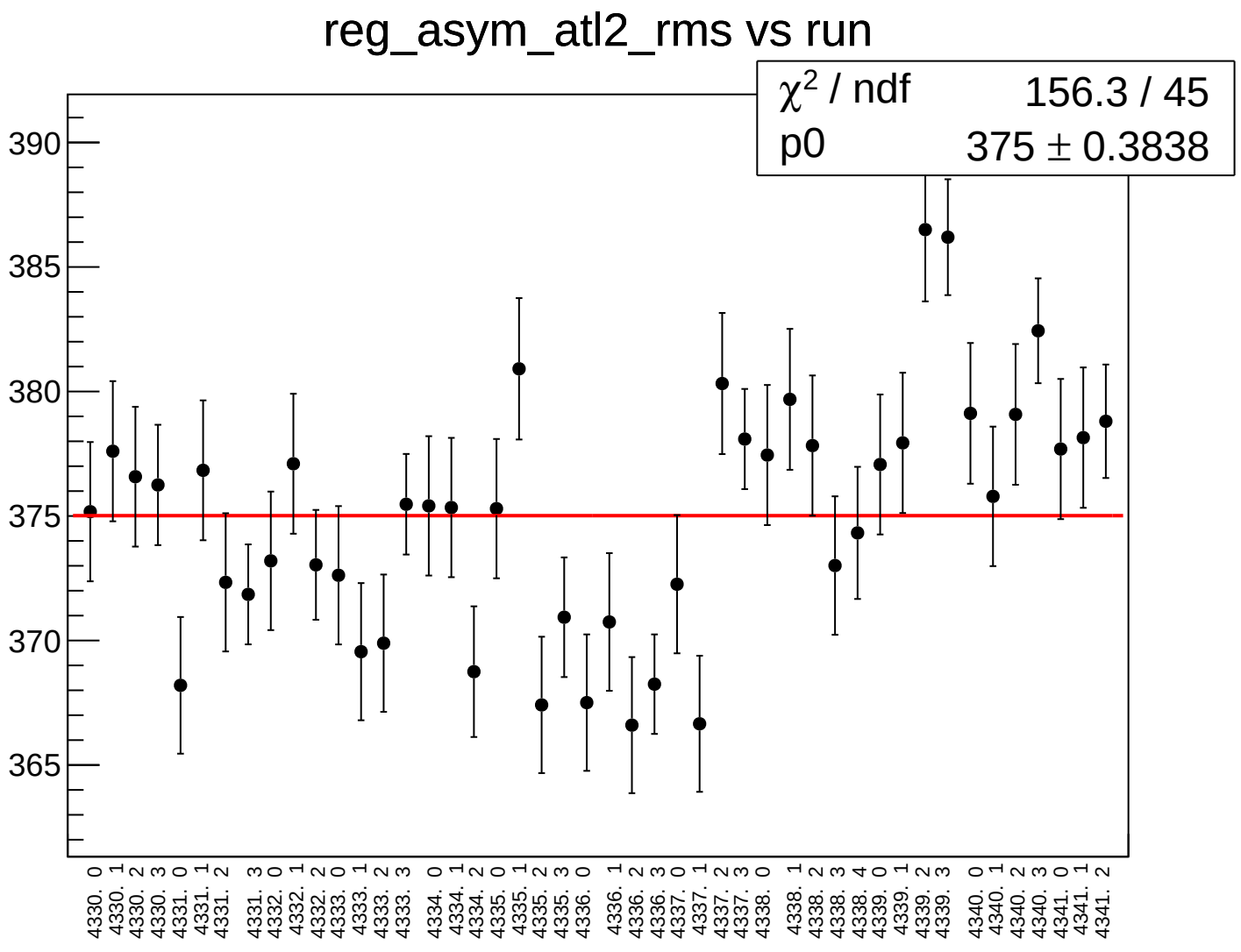

asym_atl1_mean vs run
χ² / ndf 42.1 / 45
p0 −33.72 ± 2345
60000
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 3099
Std Dev 3075
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

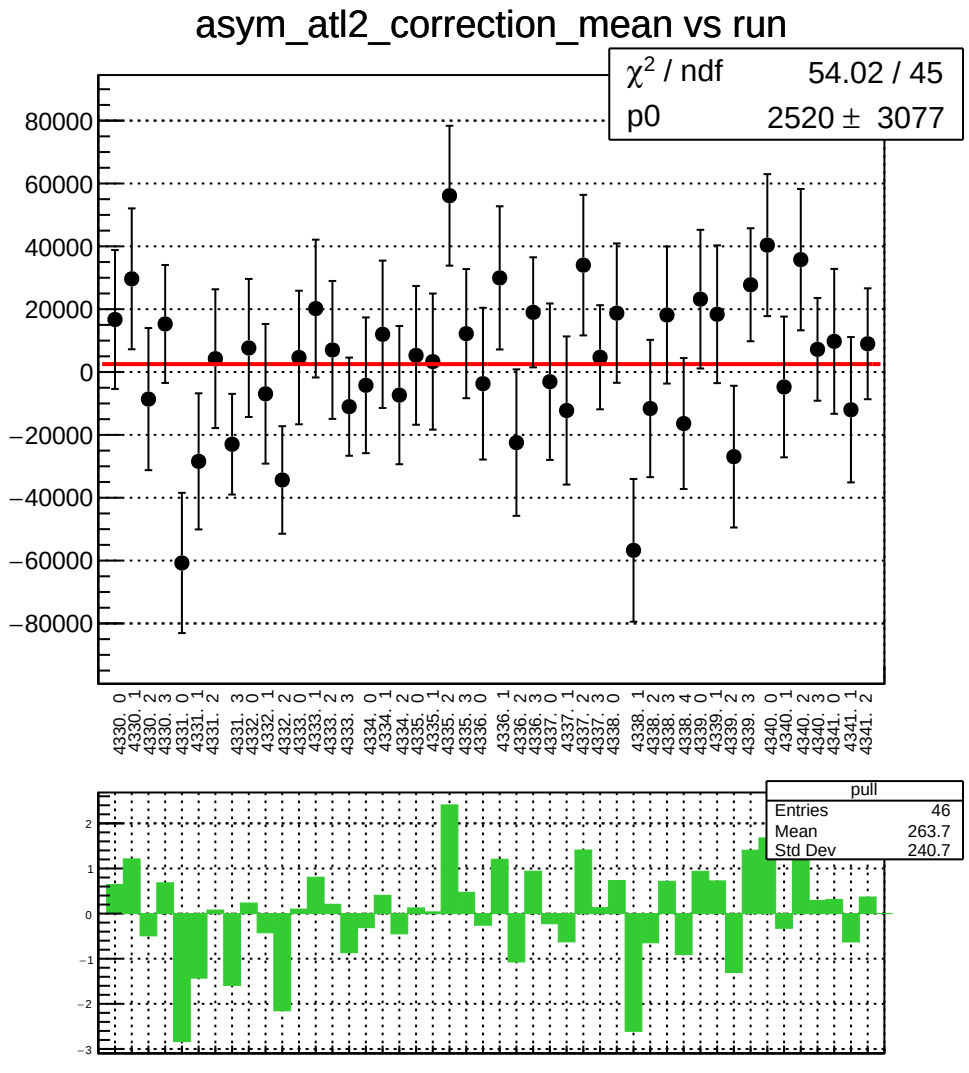

pull1D
Entries 46
Mean 0.0005295
Std Dev 0.9566
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

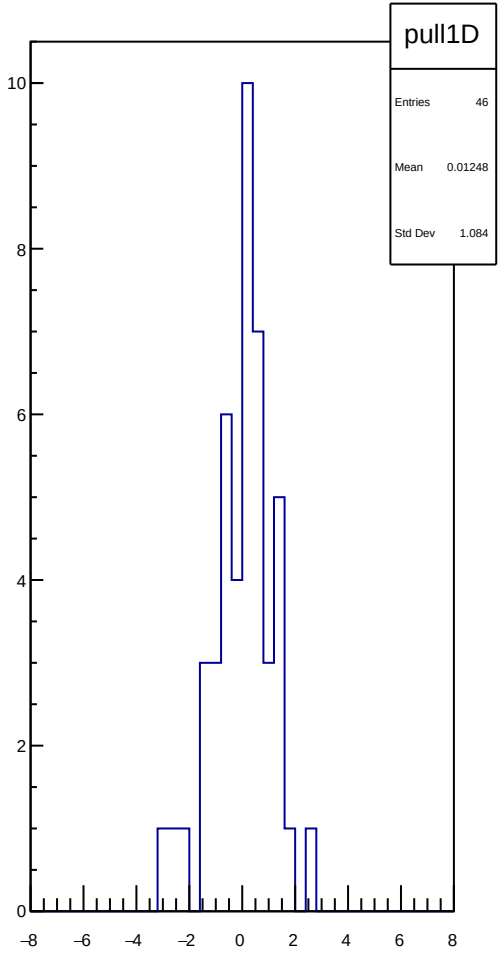

asym_atl1_rms vs run
χ^2 / ndf 1969 / 45
p0 1619 ± 1.658
1850
1800
1750
1700
1650
1600
1550
1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

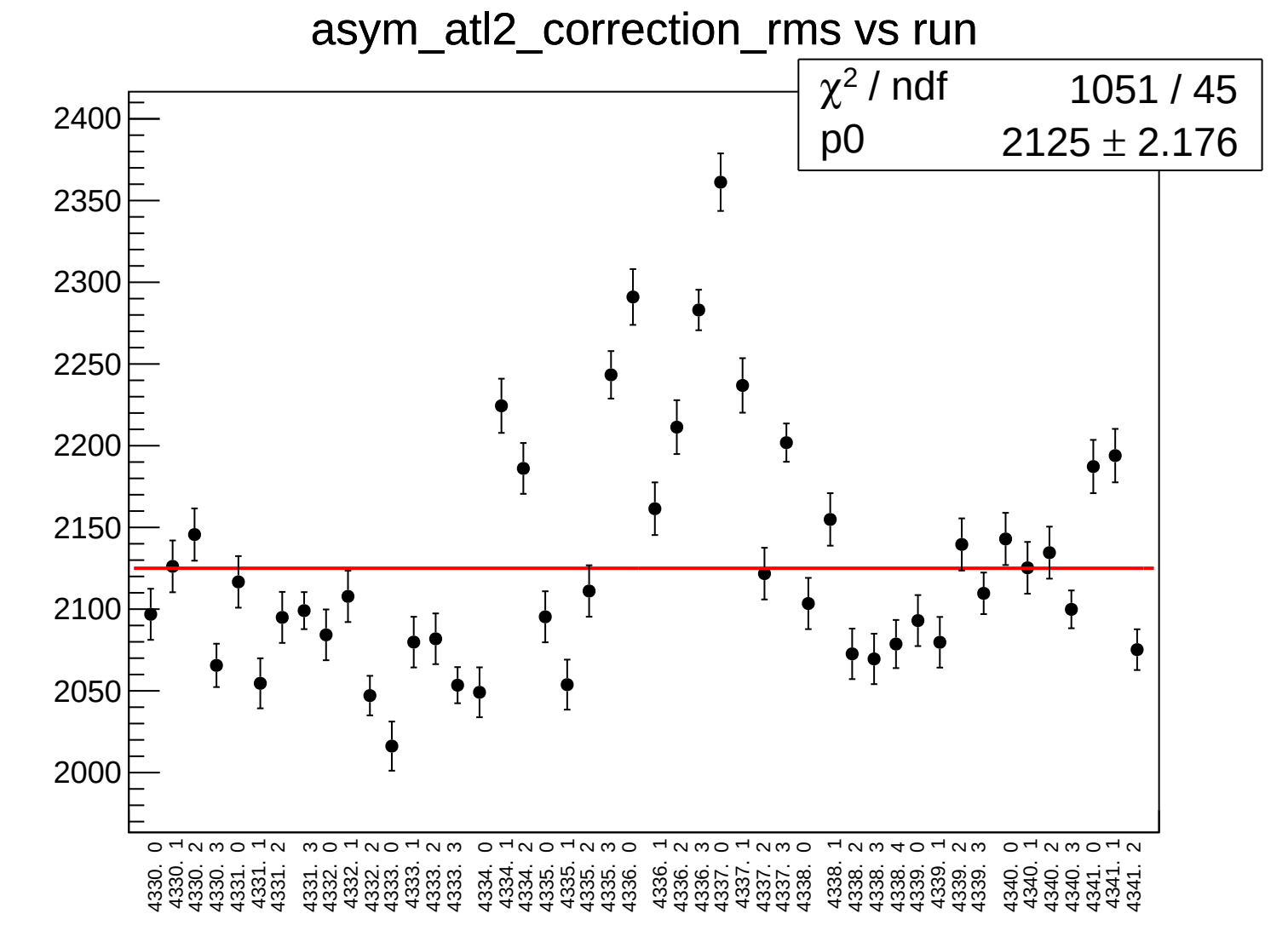

reg_asym_atl2_mean vs run
χ² / ndf 50.6 / 45
p0 −228.4 ± 542.8
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 105
Std Dev 74.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

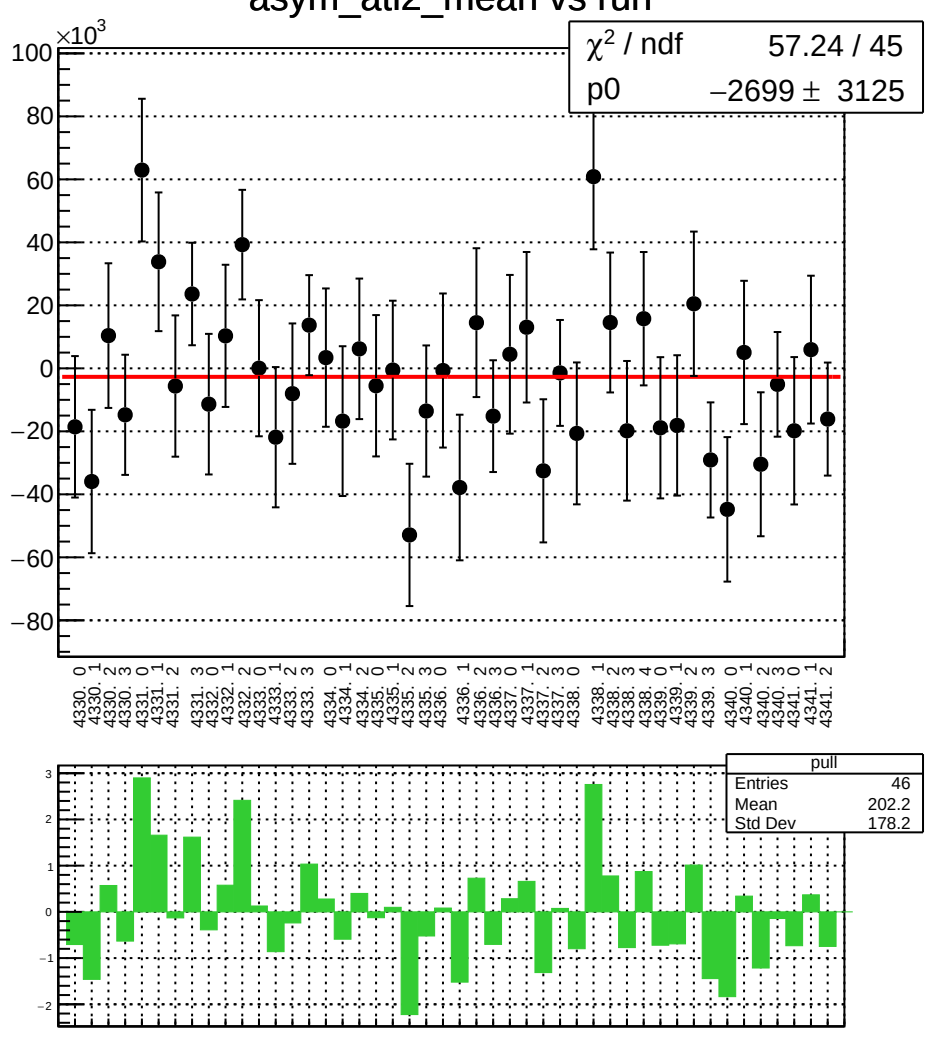

pull1D
Entries 46
Mean −0.03562
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

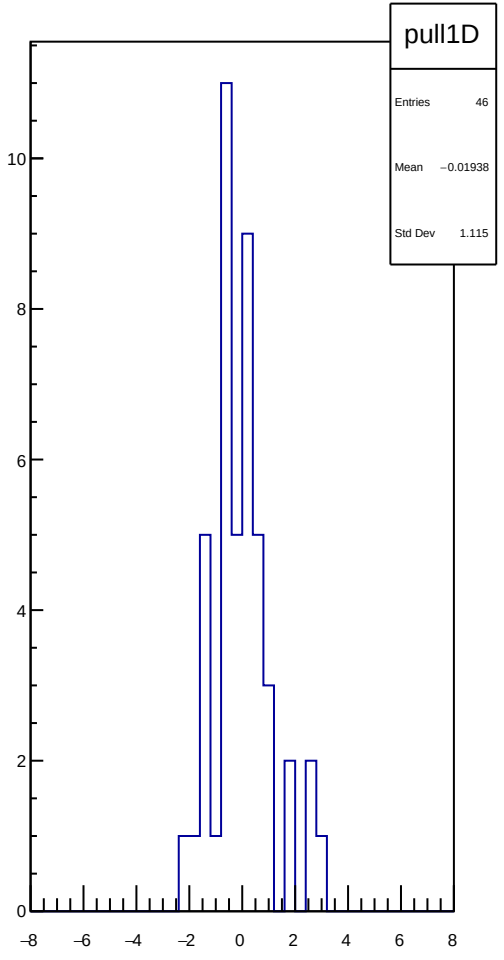

reg_asym_atl2_rms vs run
χ² / ndf 156.3 / 45
p0 375 ± 0.3838
390
385
380
375
370
365
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

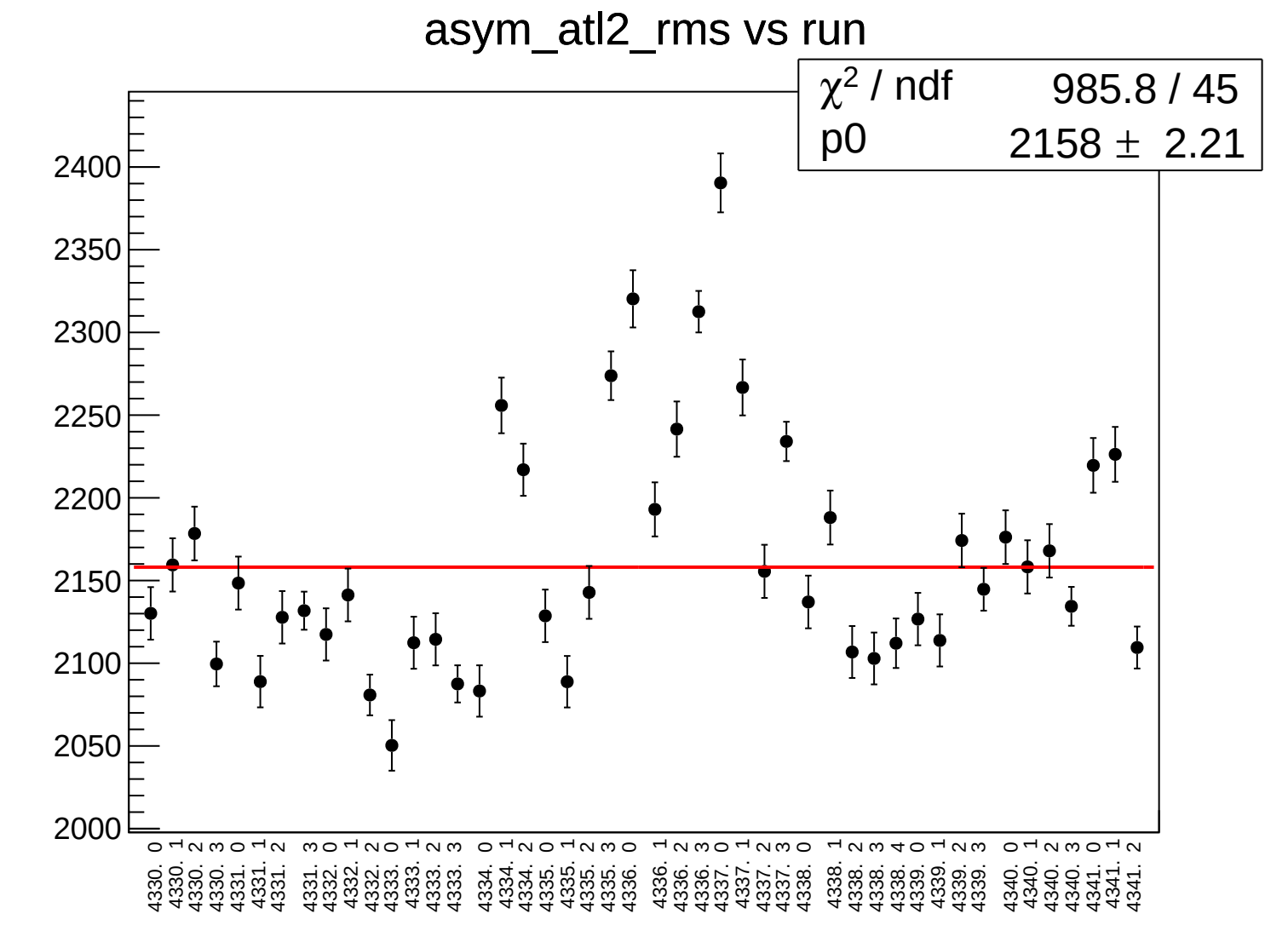

asym_atl2_correction_mean vs run
χ² / ndf 54.02 / 45
p0 2520 ± 3077
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 263.7
Std Dev 240.7
2
1
0
−1
−2
−3

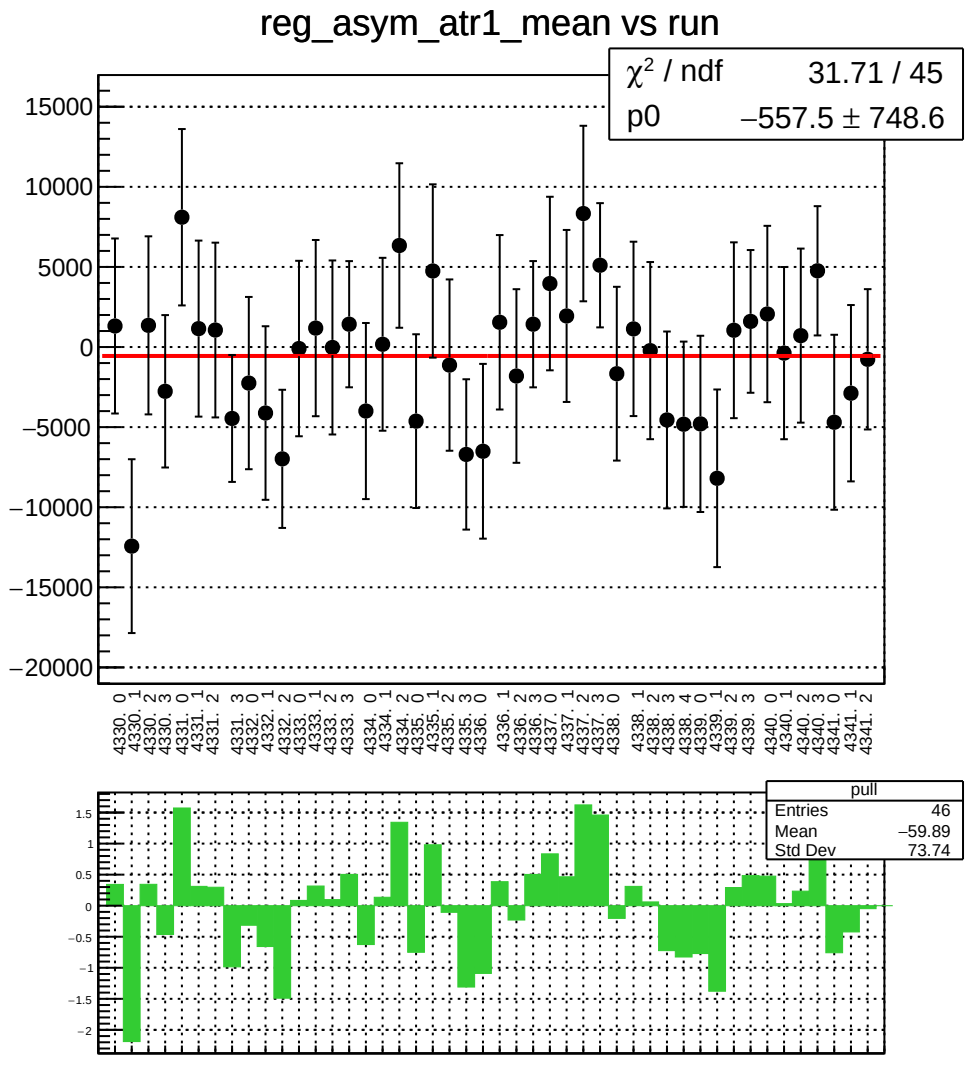

pull1D
Entries 46
Mean 0.01248
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

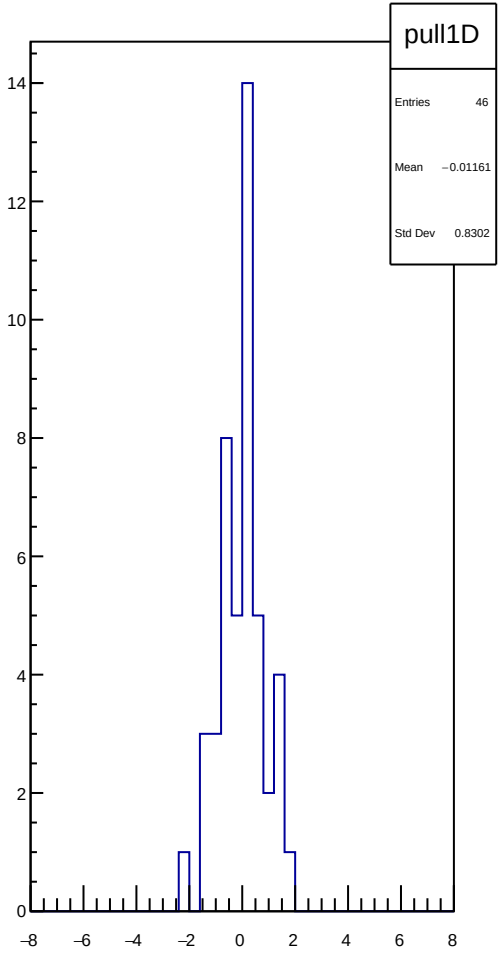

asym_atl2_correction_rms vs run
χ² / ndf 1051 / 45
p0 2125 ± 2.176
2400
2350
2300
2250
2200
2150
2100
2050
2000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

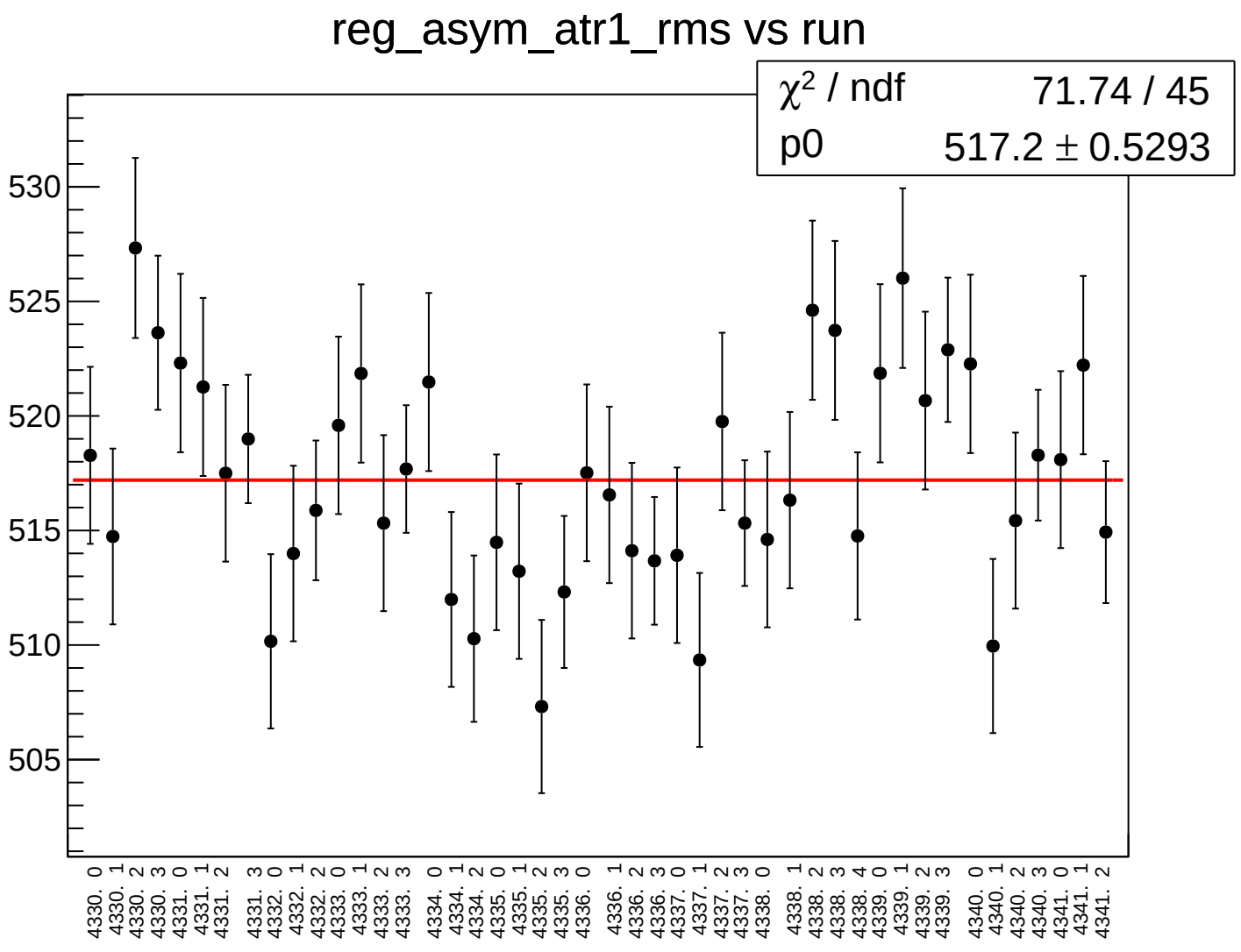

asym_atl2_mean vs run
×10^3
χ² / ndf 57.24 / 45
p0 −2699 ± 3125
pull
Entries 46
Mean 202.2
Std Dev 178.2

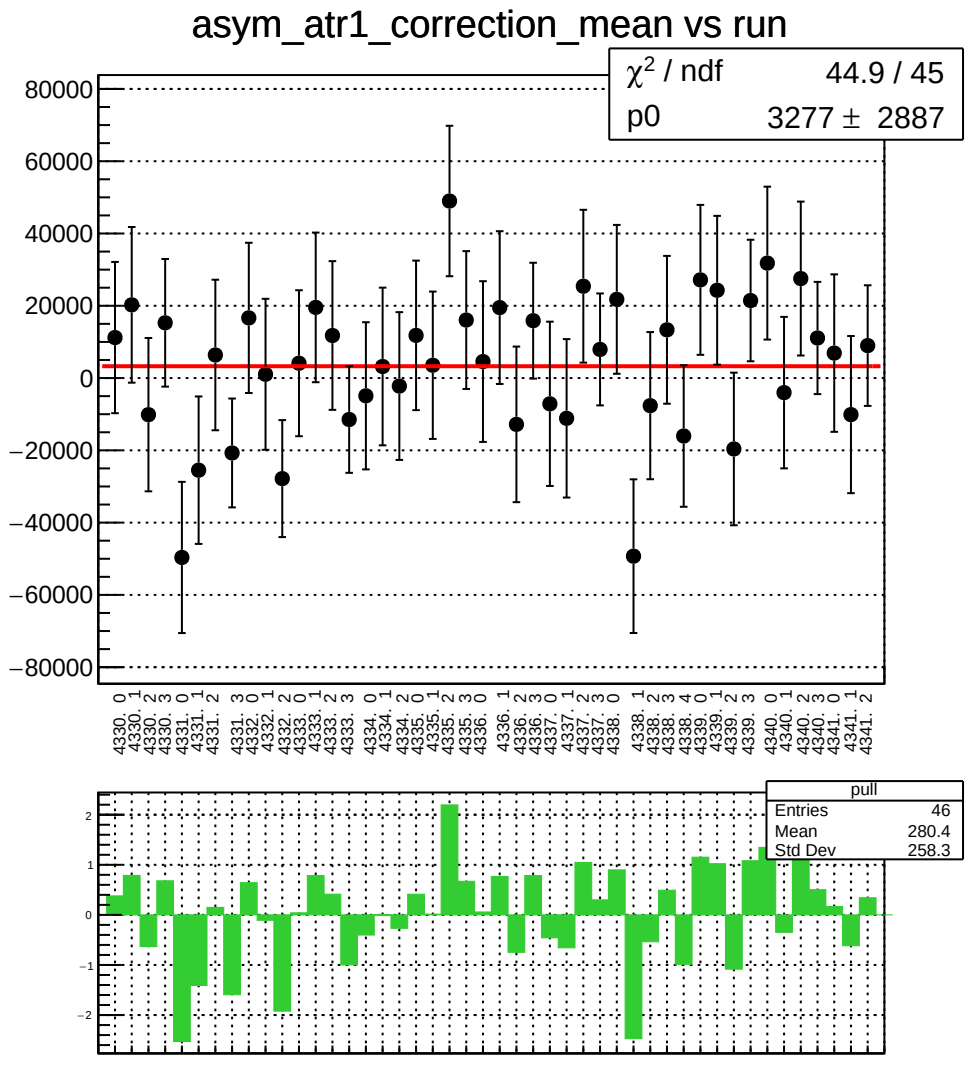

pull1D
Entries 46
Mean −0.01938
Std Dev 1.115

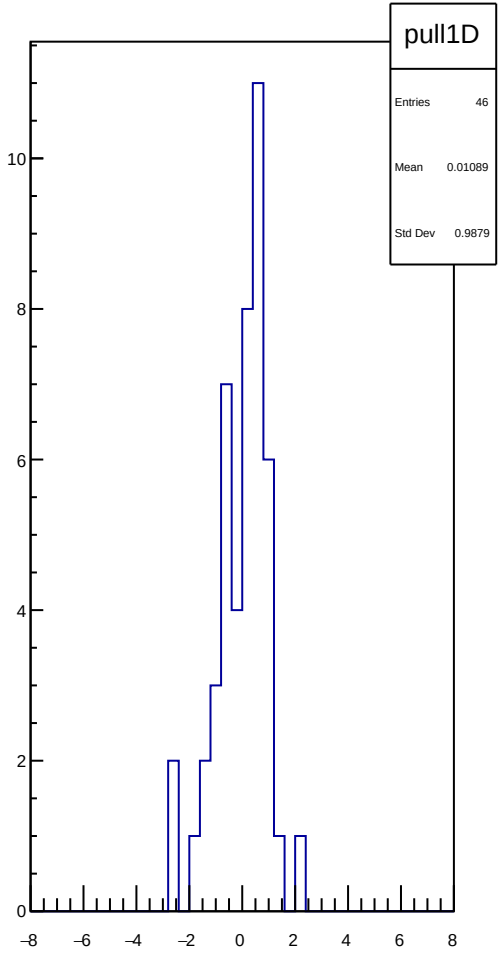

asym_atl2_rms vs run
χ^2 / ndf 985.8 / 45
p0 2158 ± 2.21
2400
2350
2300
2250
2200
2150
2100
2050
2000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

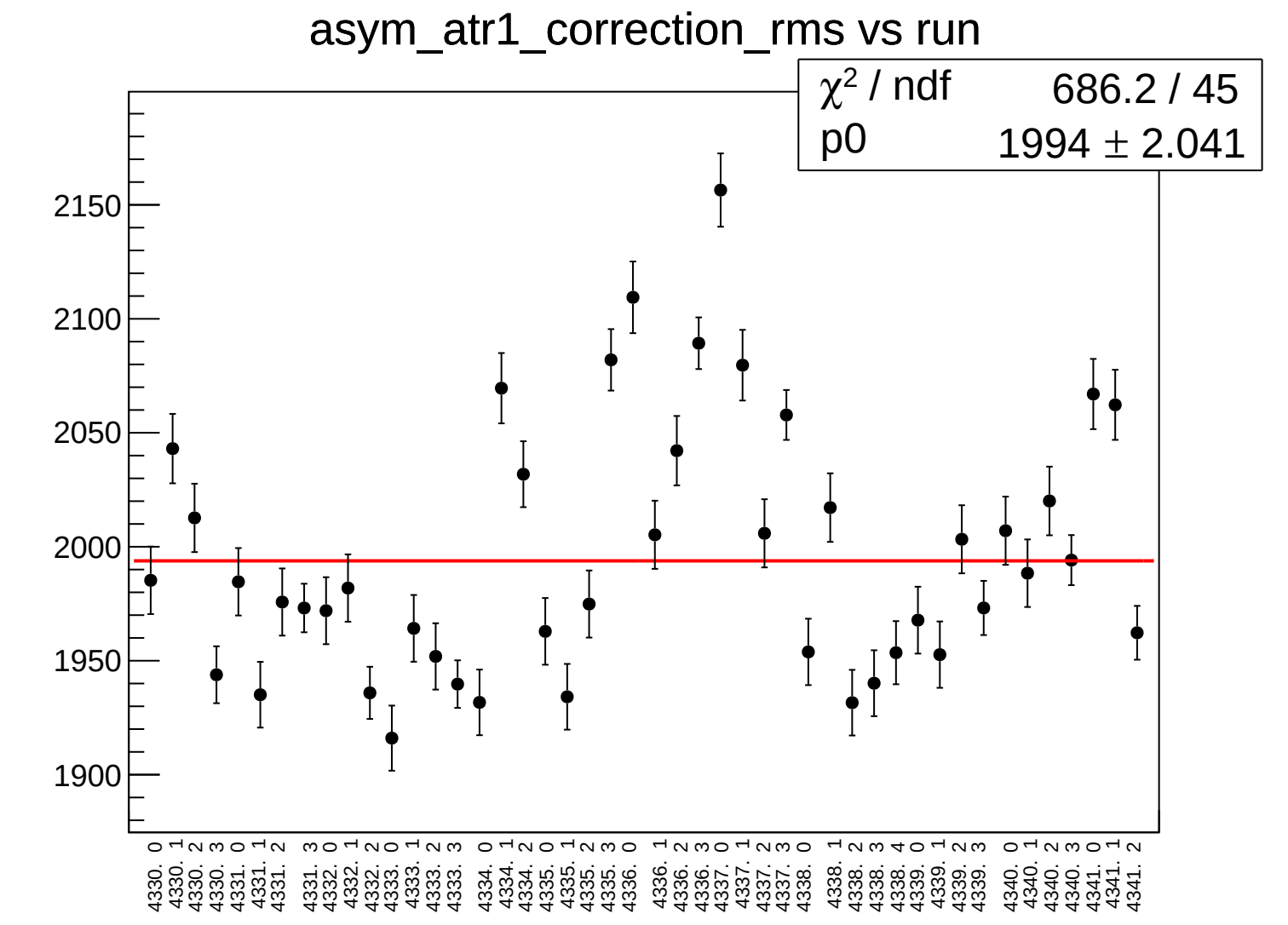

reg_asym_atr1_mean vs run
χ² / ndf 31.71 / 45
p0 −557.5 ± 748.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −59.89
Std Dev 73.74
1.5
1
0.5
0
−0.5
−1
−1.5
−2

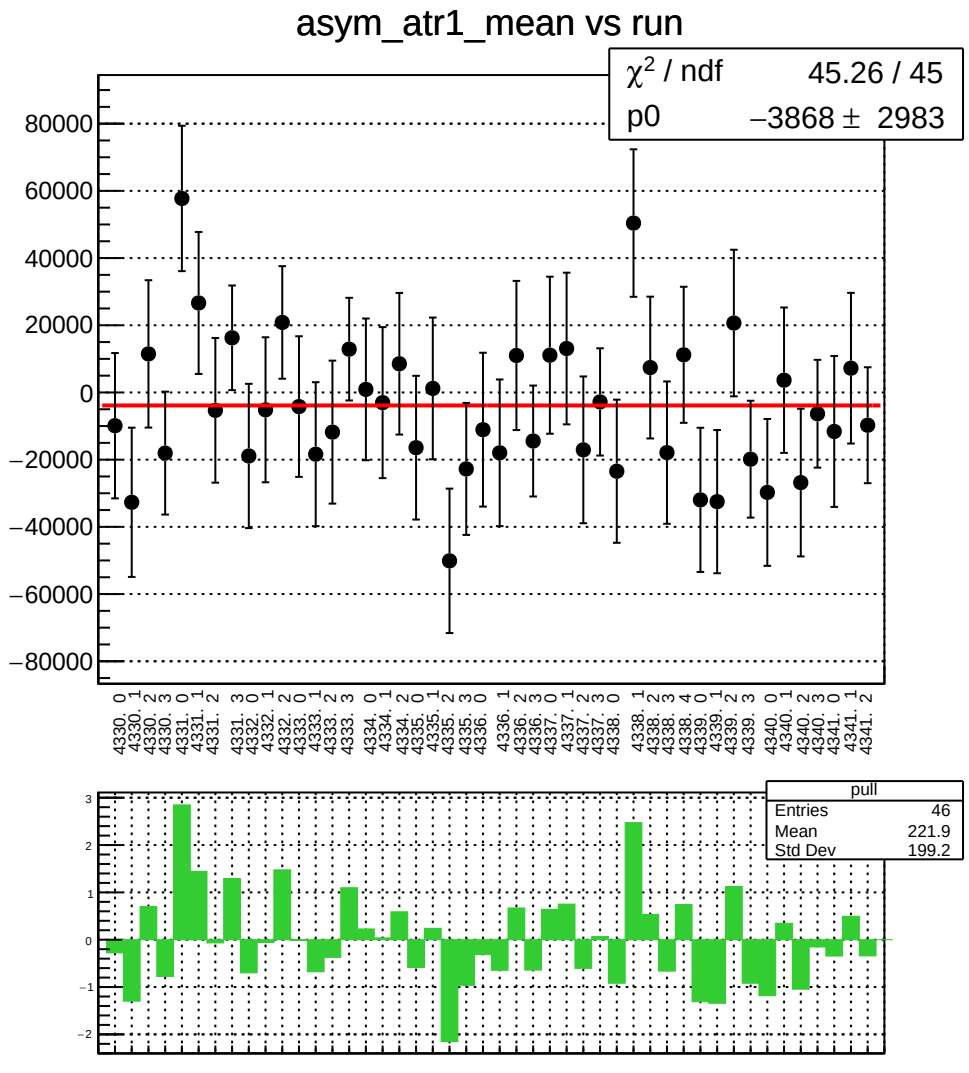

pull1D
Entries 46
Mean −0.01161
Std Dev 0.8302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

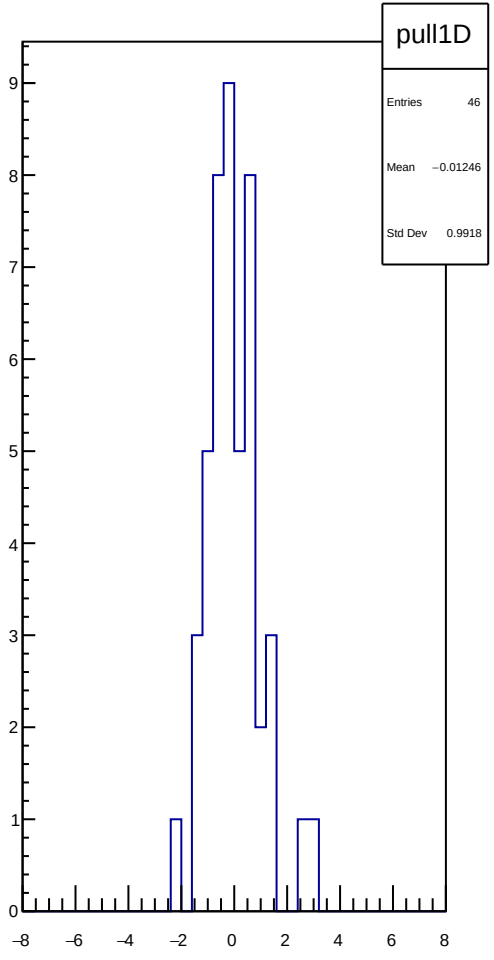

reg_asym_atr1_rms vs run
χ² / ndf 71.74 / 45
p0 517.2 ± 0.5293
530
525
520
515
510
505
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

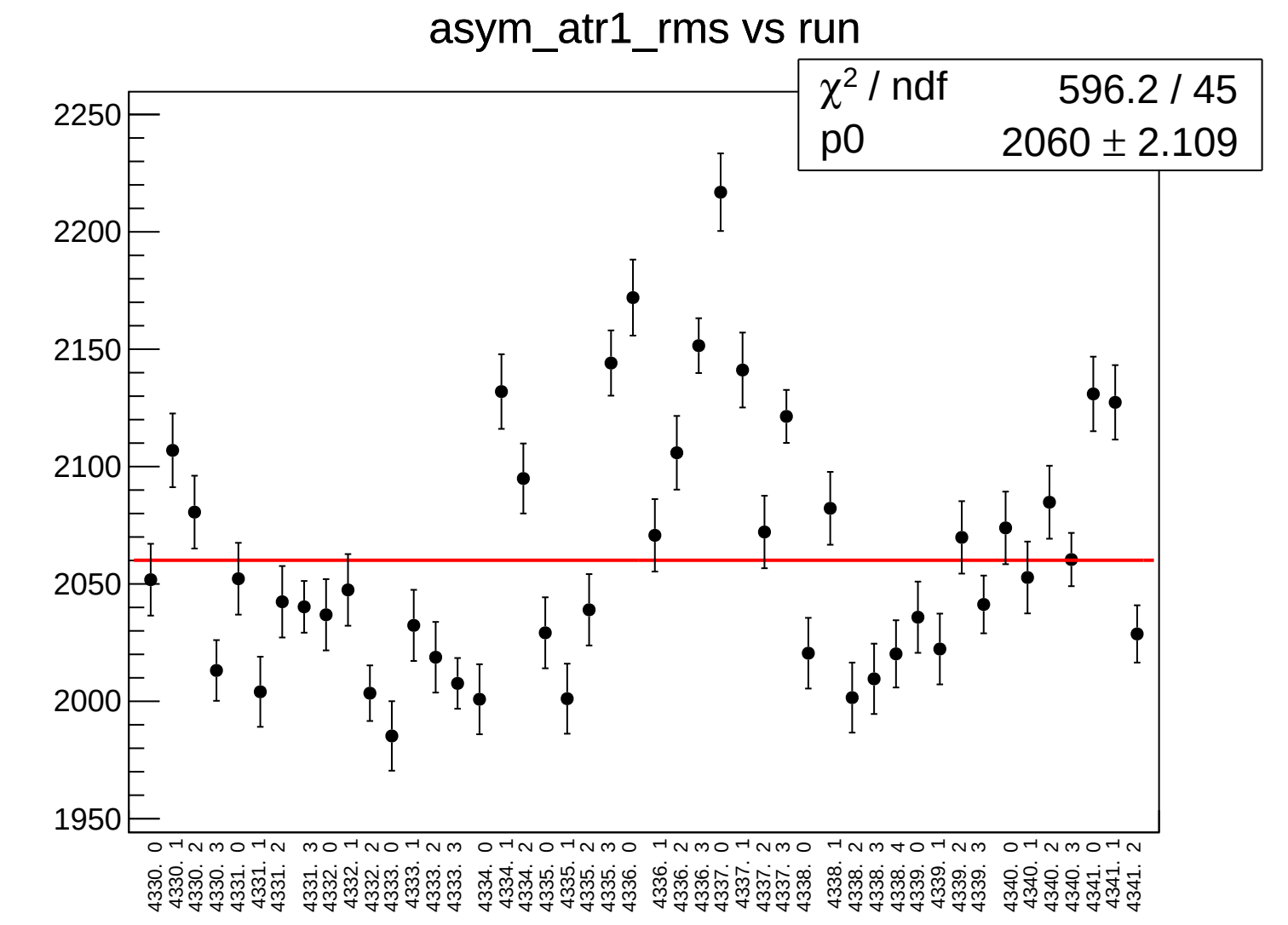

asym_atr1_correction_mean vs run
χ² / ndf 44.9 / 45
p0 3277 ± 2887
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 280.4
Std Dev 258.3
2
1
0
−1
−2

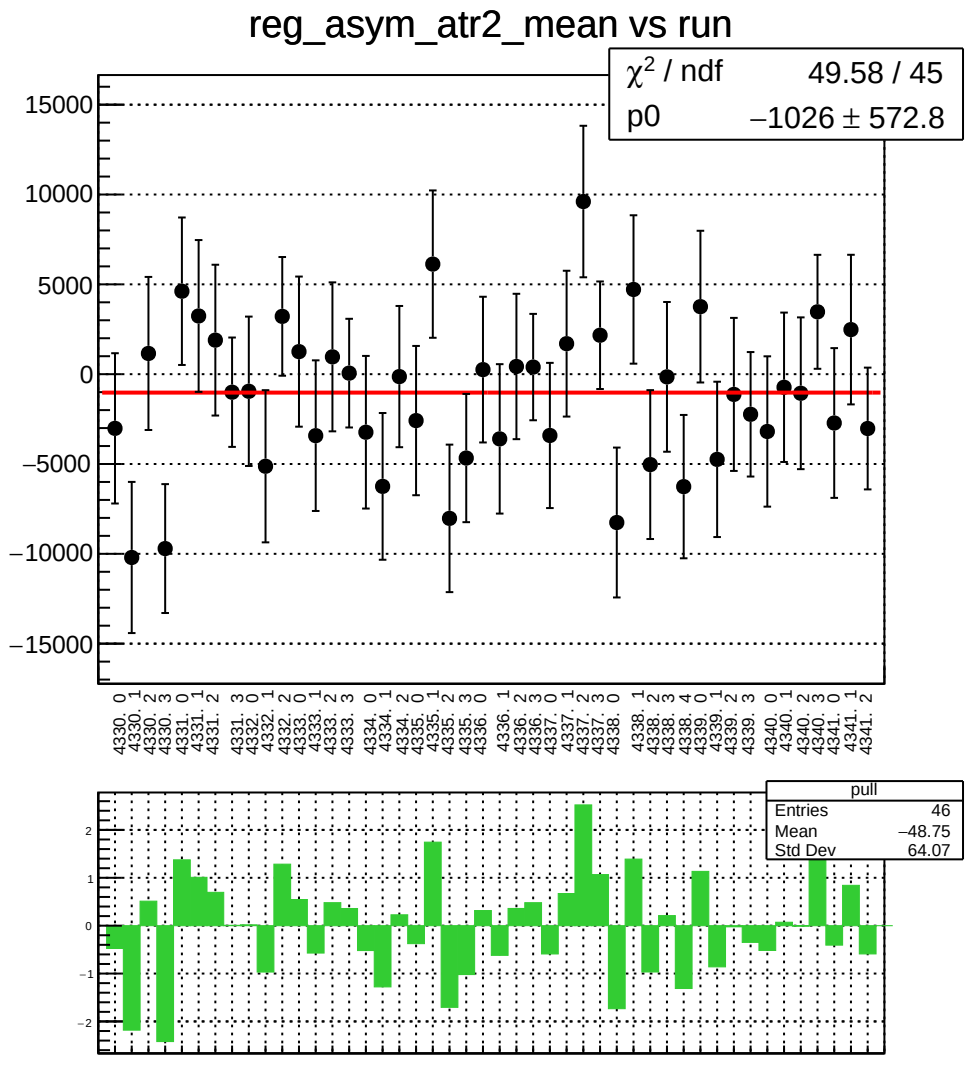

pull1D
Entries 46
Mean 0.01089
Std Dev 0.9879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

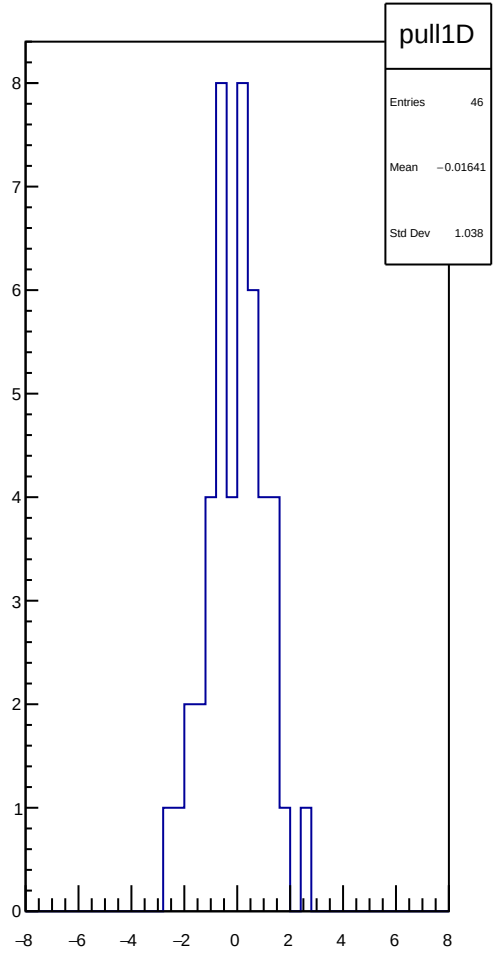

asym_atr1_correction_rms vs run
χ² / ndf 686.2 / 45
p0 1994 ± 2.041
2150
2100
2050
2000
1950
1900
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

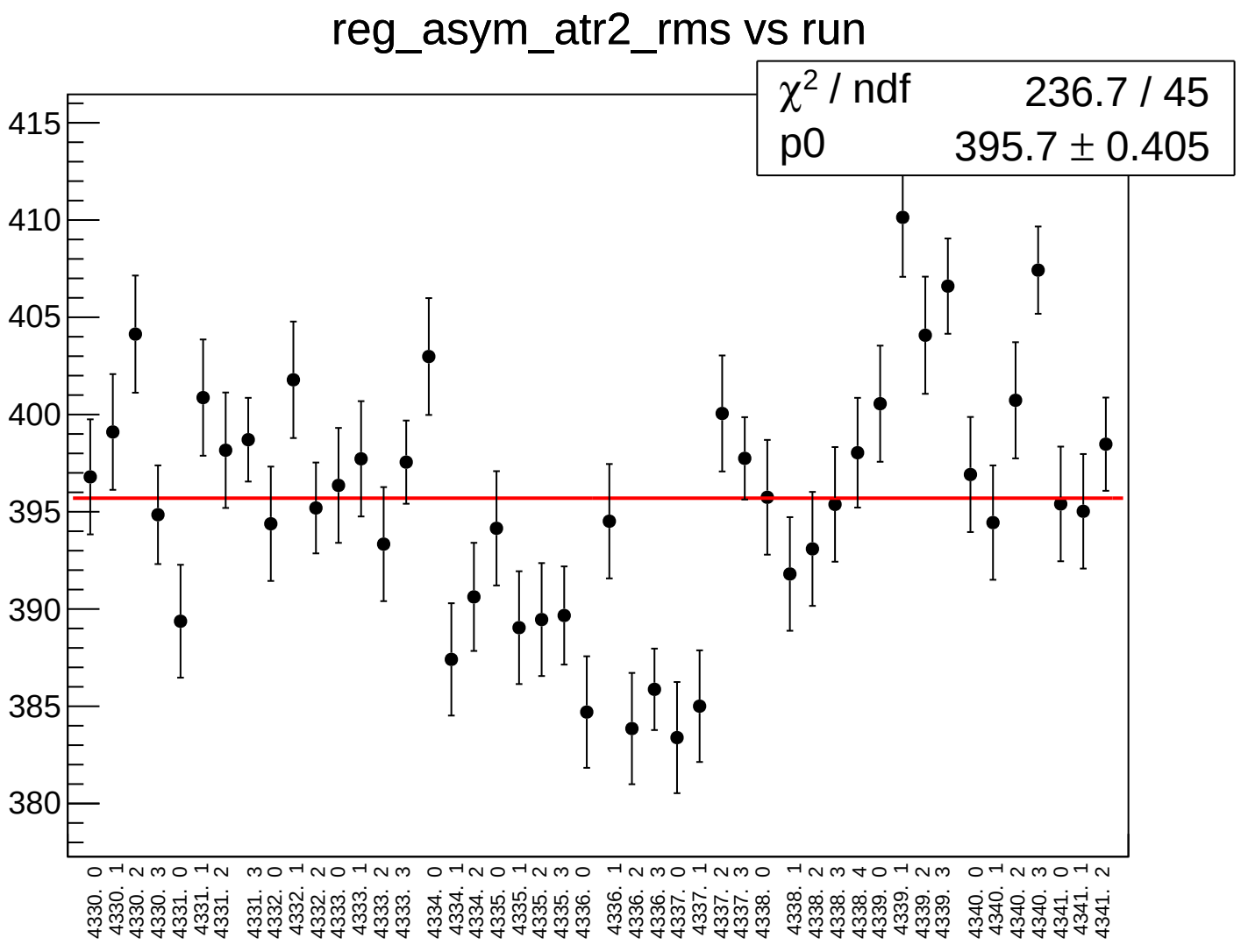

asym_atr1_mean vs run
χ² / ndf 45.26 / 45
p0 −3868 ± 2983
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 221.9
Std Dev 199.2
3
2
1
0
−1
−2

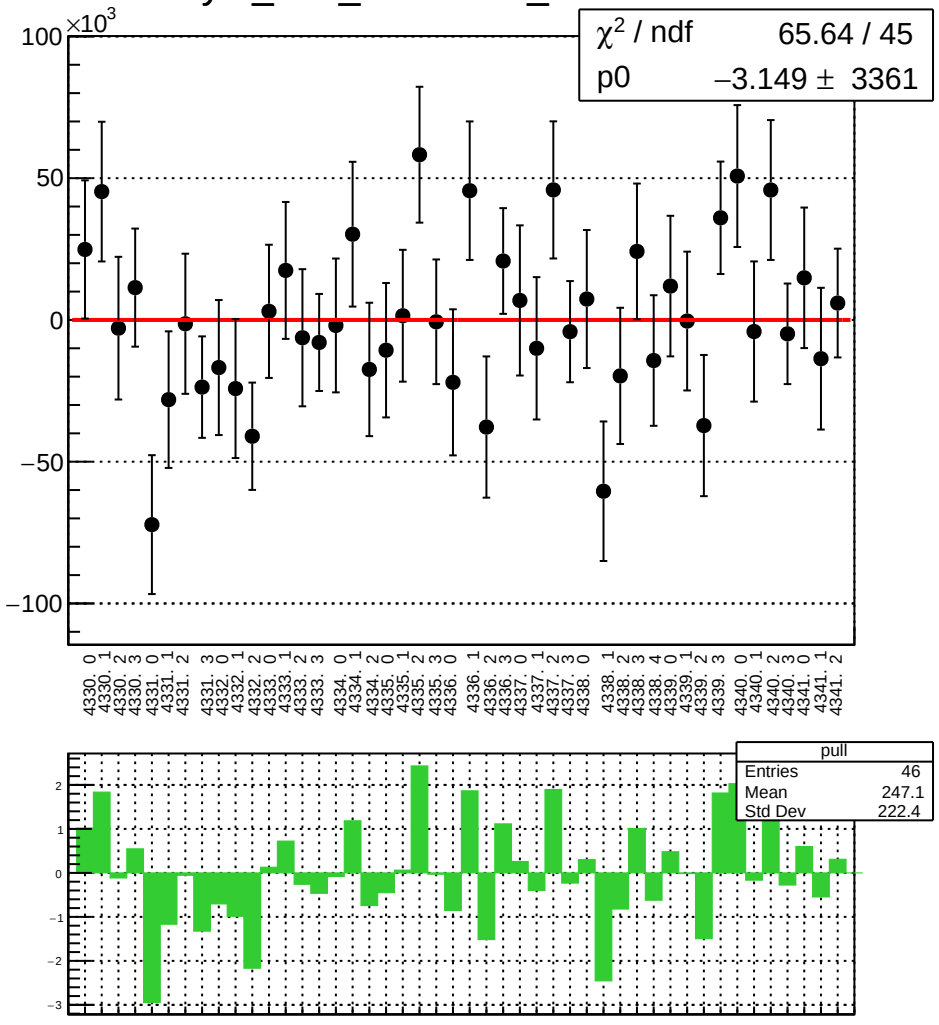

pull1D
Entries 46
Mean −0.01246
Std Dev 0.9918
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

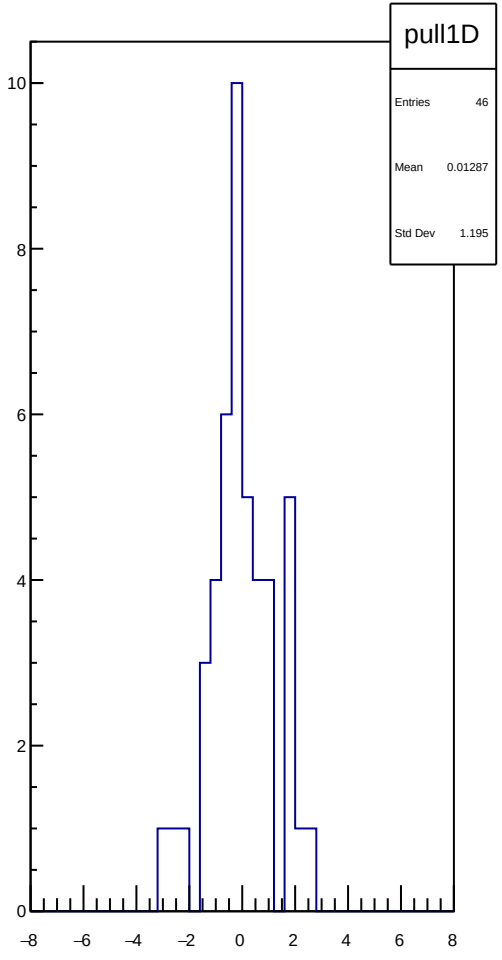

asym_atr1_rms vs run
χ² / ndf 596.2 / 45
p0 2060 ± 2.109
2250
2200
2150
2100
2050
2000
1950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

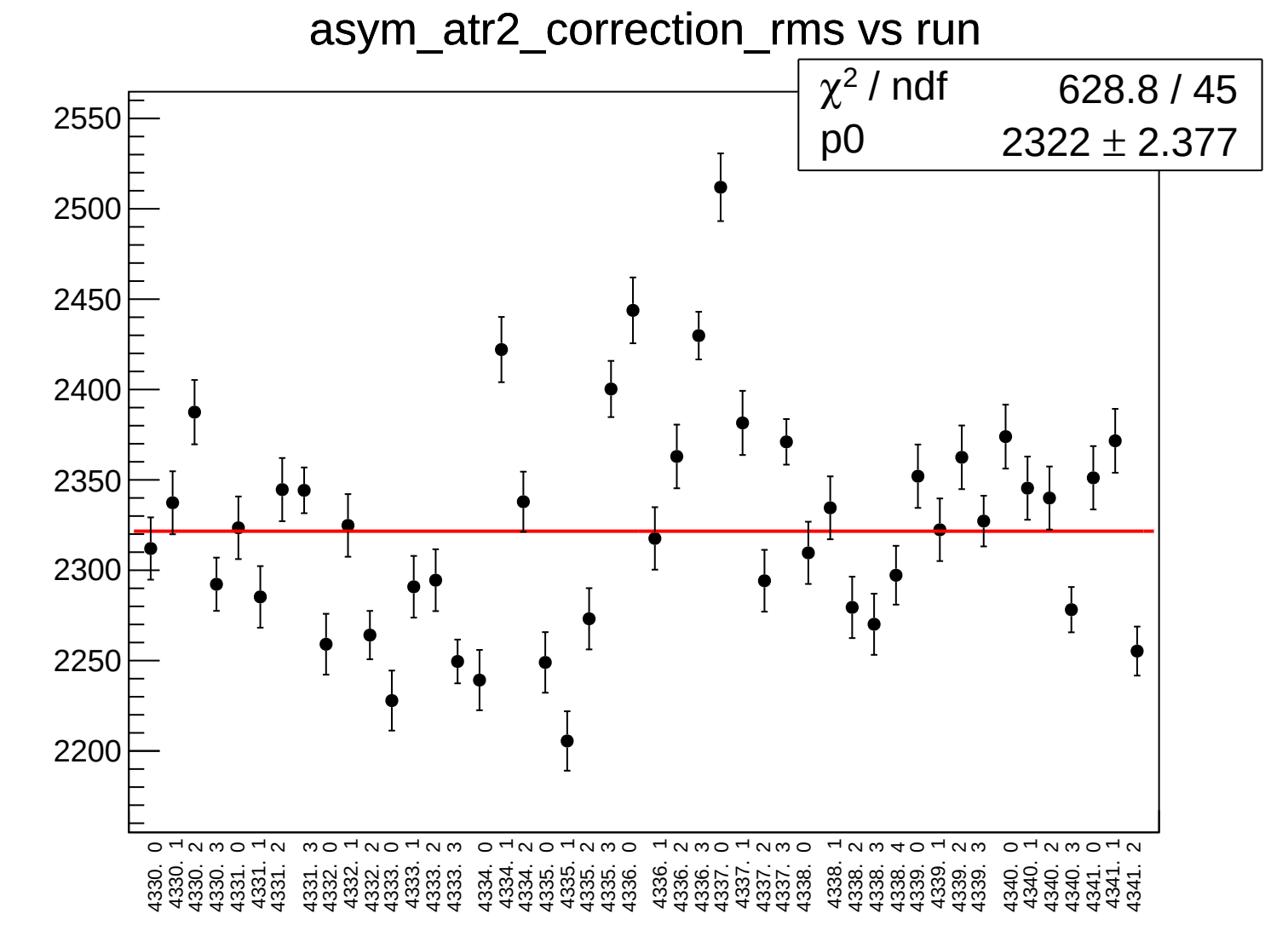

reg_asym_atr2_mean vs run
χ² / ndf 49.58 / 45
p0 −1026 ± 572.8
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −48.75
Std Dev 64.07
2
1
0
−1
−2

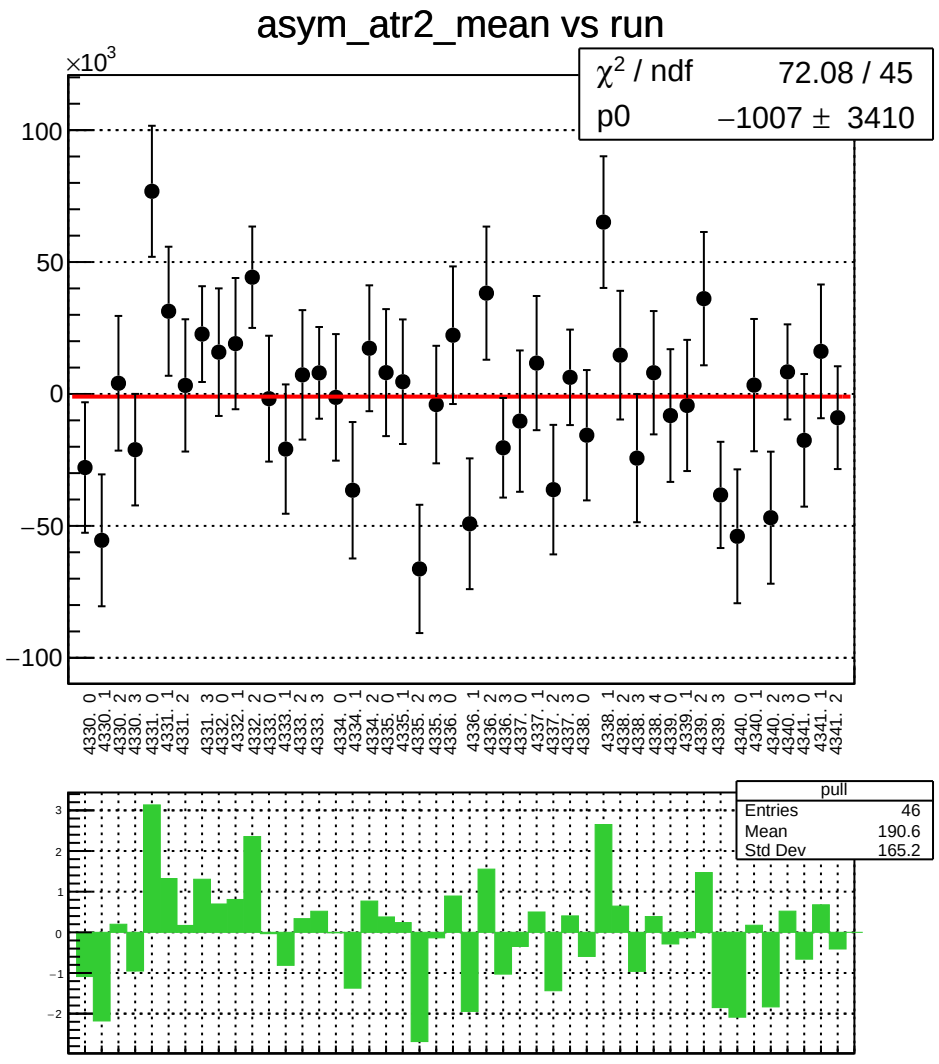

pull1D
Entries 46
Mean −0.01641
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

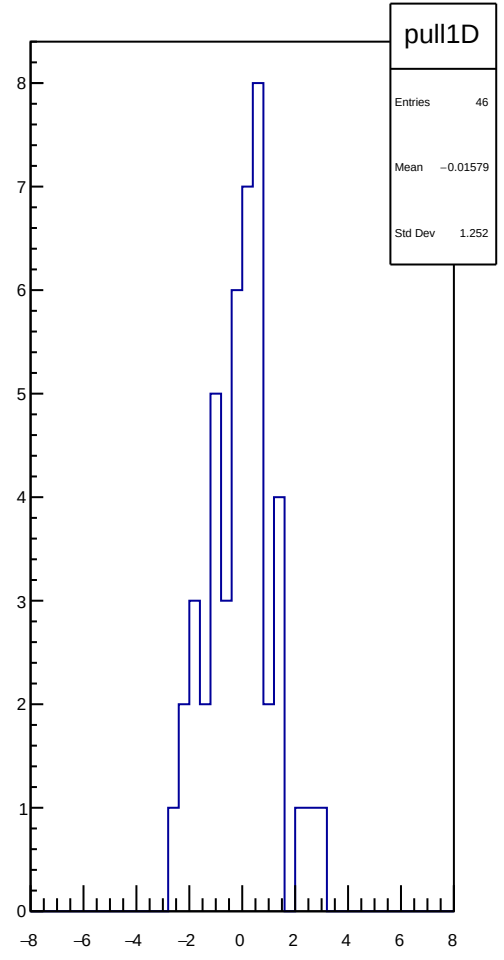

reg_asym_atr2_rms vs run
χ² / ndf 236.7 / 45
p0 395.7 ± 0.405
415
410
405
400
395
390
385
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

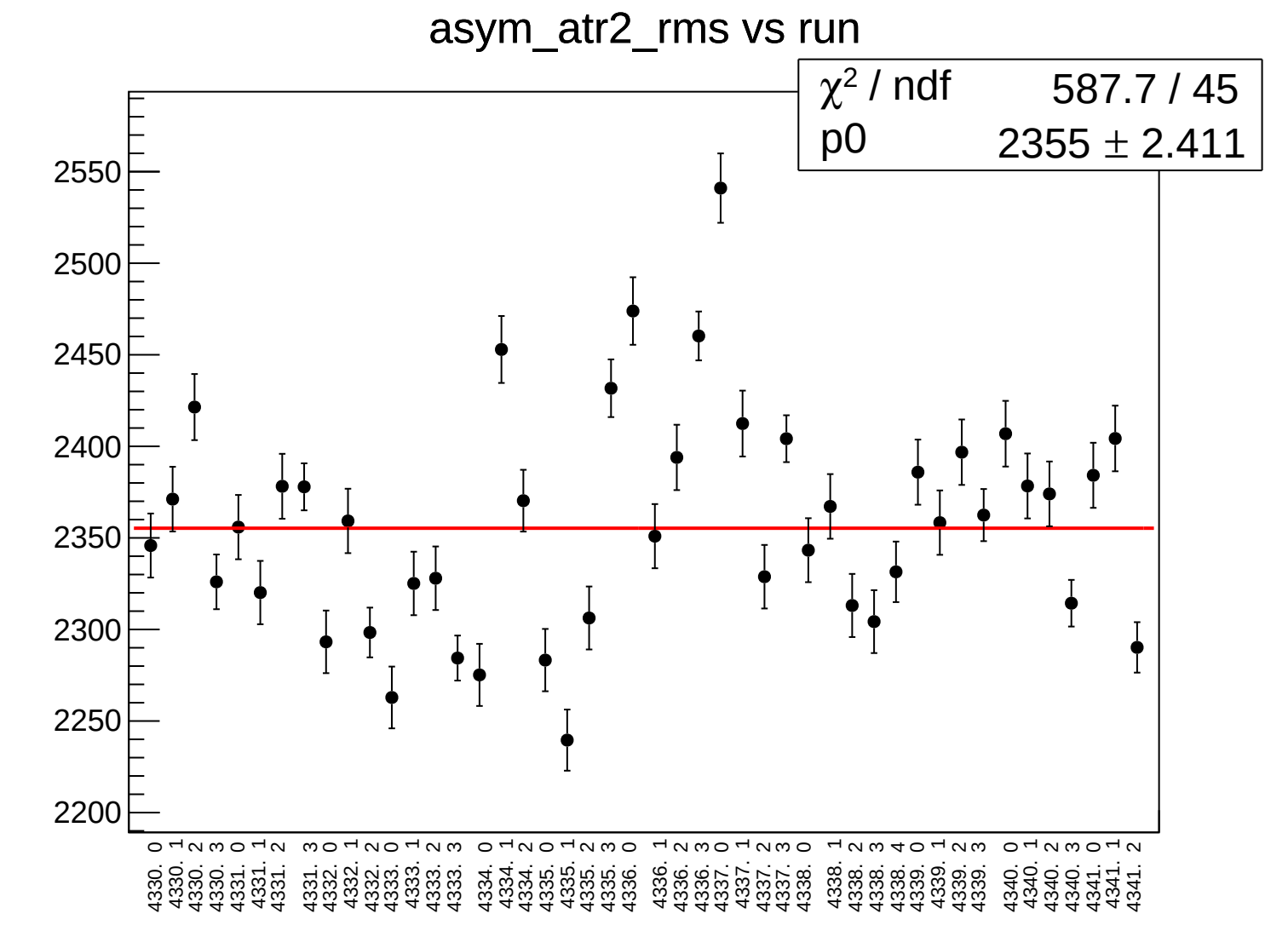

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 65.64 / 45
p0 −3.149 ± 3361
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 247.1
Std Dev 222.4
2
1
0
−1
−2
−3

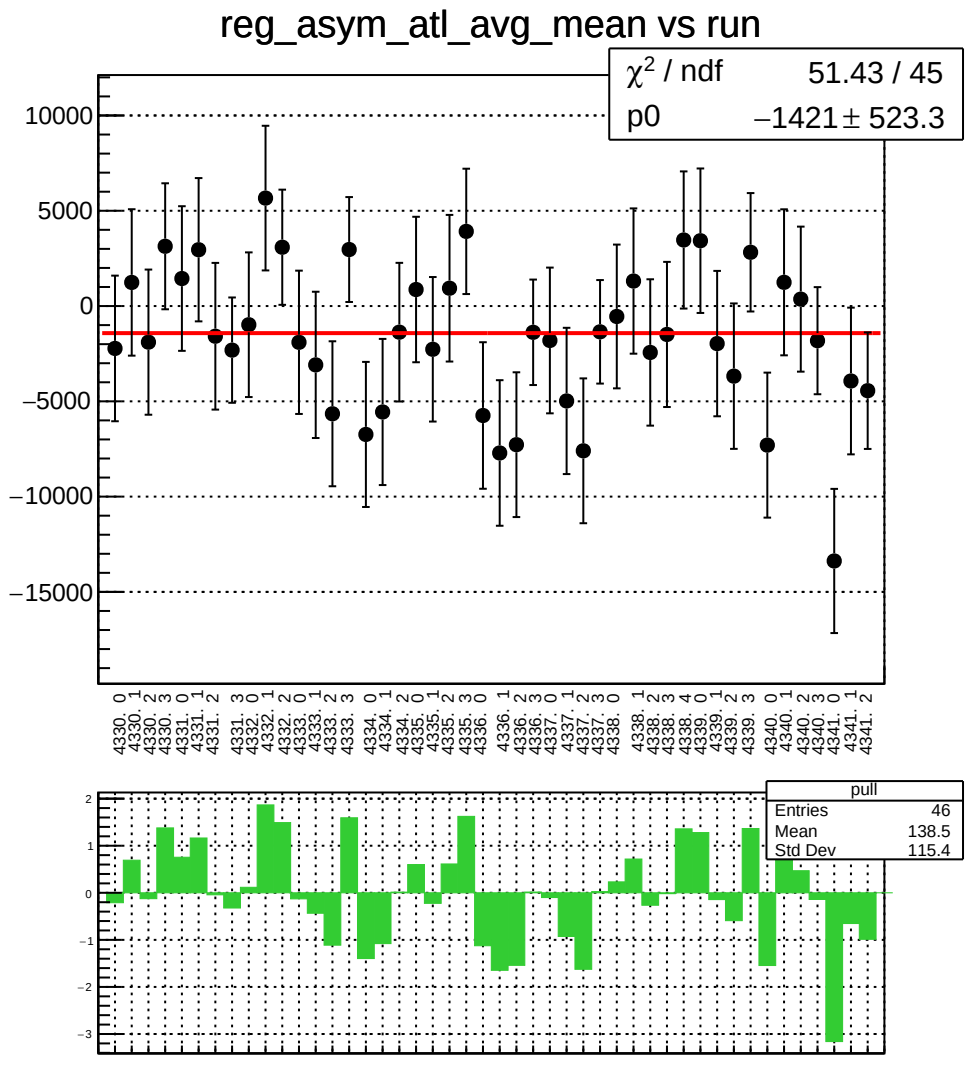

pull1D
Entries 46
Mean 0.01287
Std Dev 1.195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

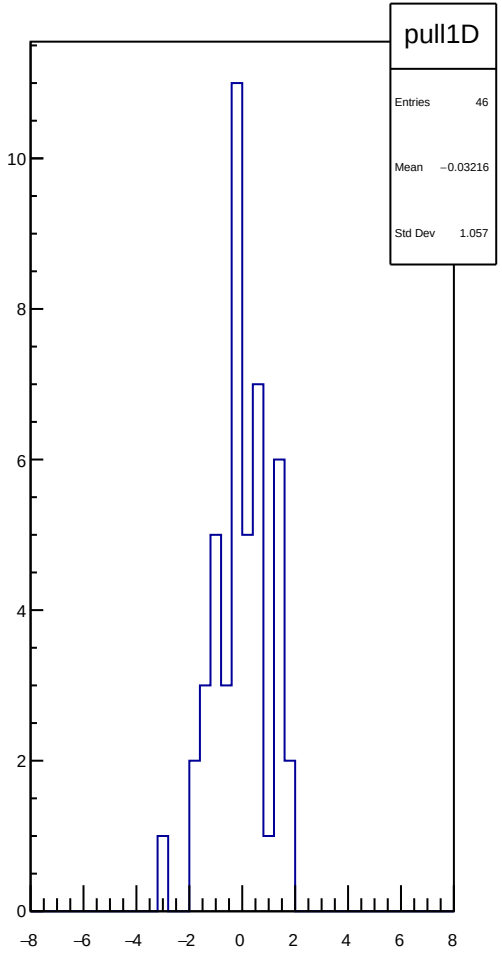

asym_atr2_correction_rms vs run
χ² / ndf 628.8 / 45
p0 2322 ± 2.377
2550
2500
2450
2400
2350
2300
2250
2200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

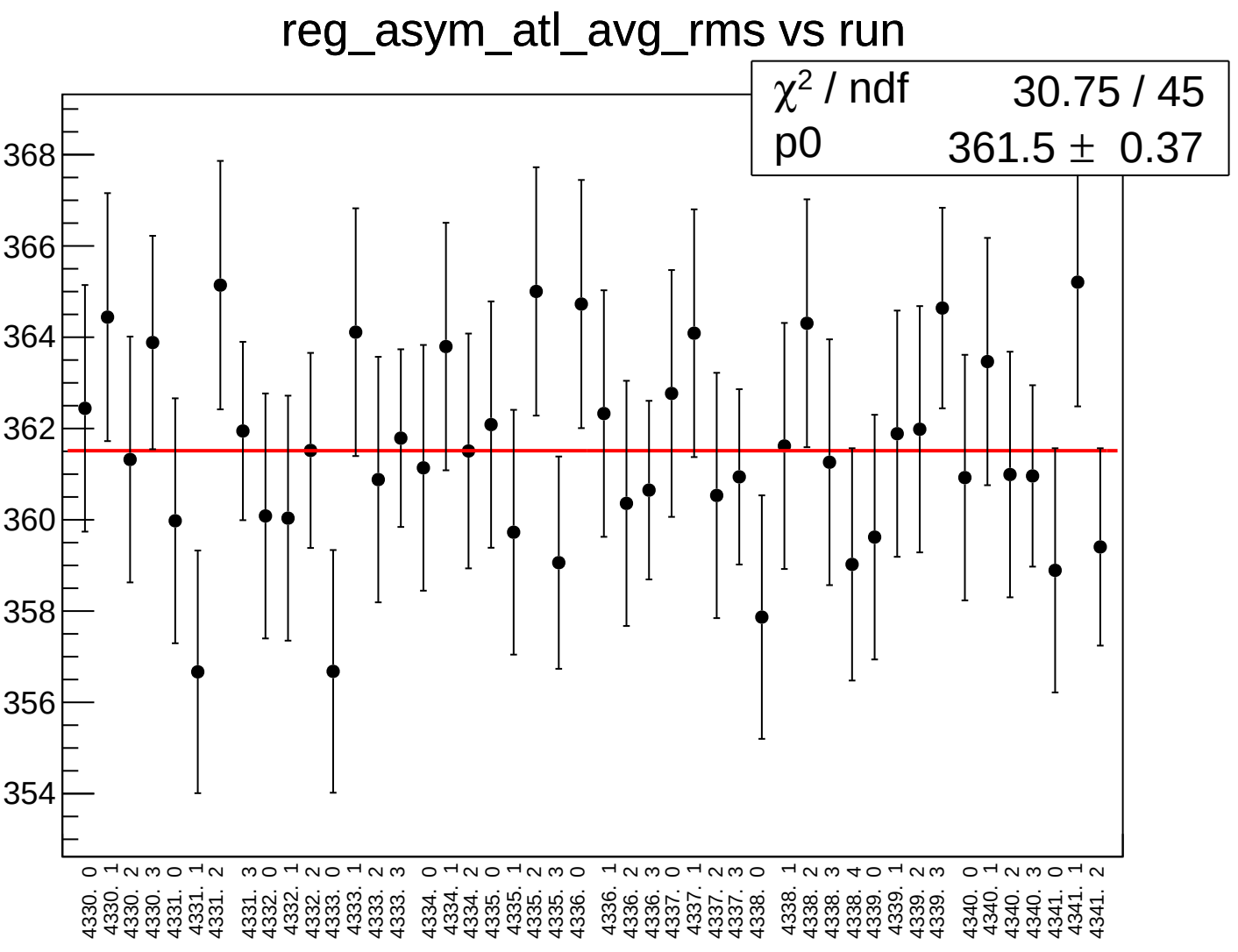

asym_atr2_mean vs run
×10^3
χ² / ndf 72.08 / 45
p0 −1007 ± 3410
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 190.6
Std Dev 165.2
3
2
1
0
−1
−2

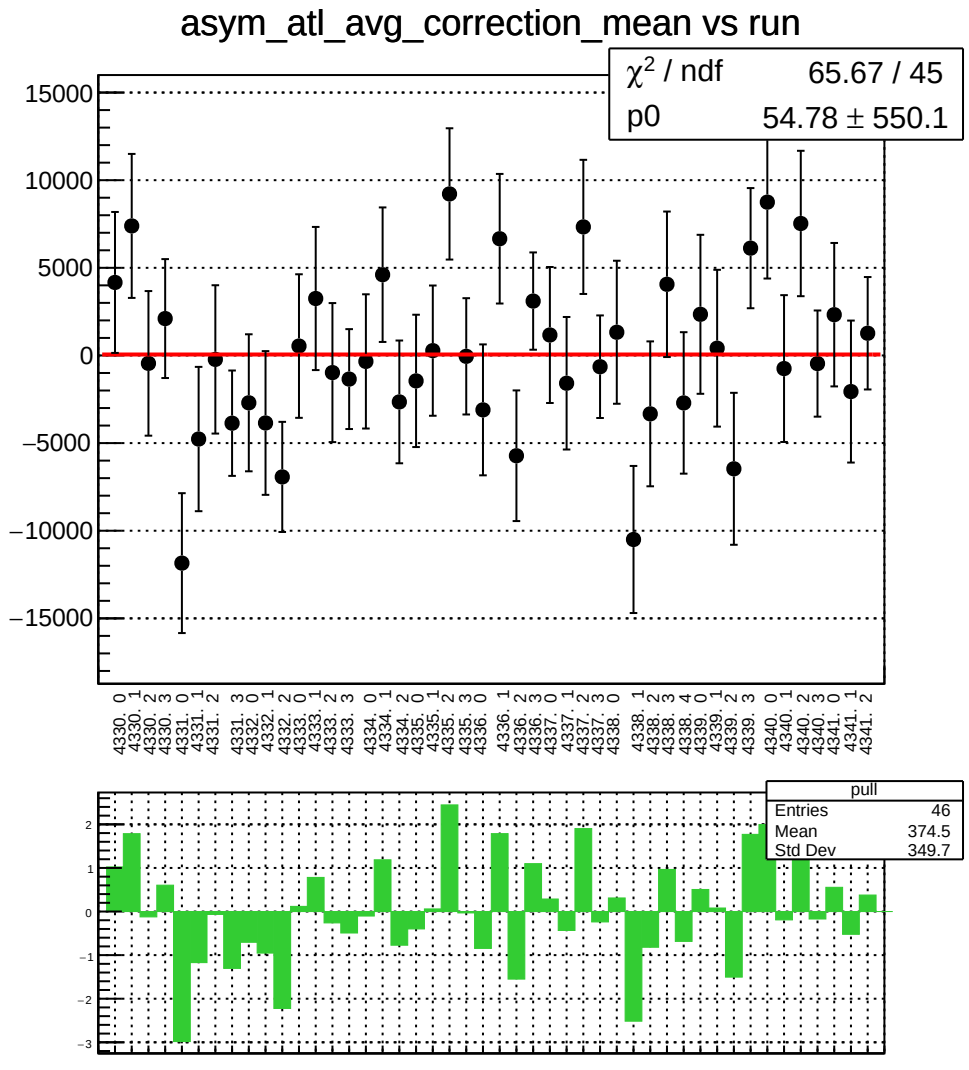

pull1D
Entries 46
Mean −0.01579
Std Dev 1.252
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

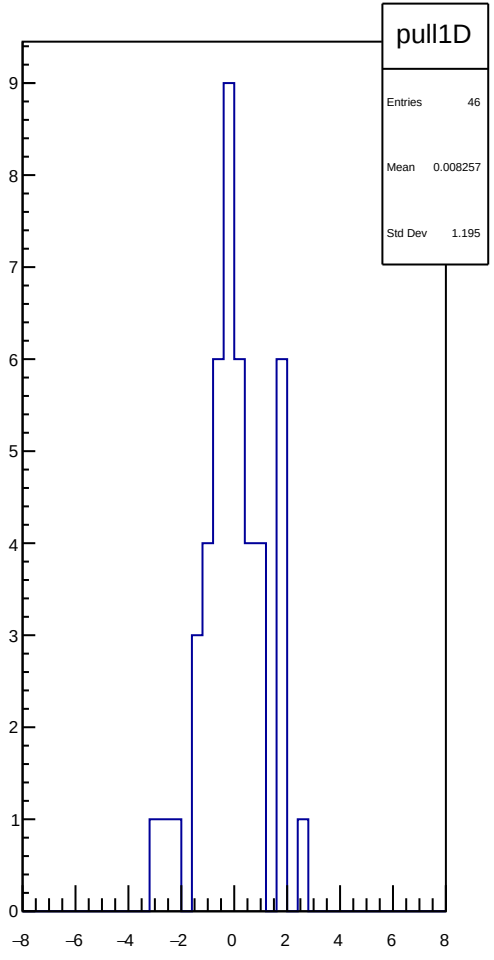

asym_atr2_rms vs run
χ² / ndf 587.7 / 45
p0 2355 ± 2.411
2550
2500
2450
2400
2350
2300
2250
2200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

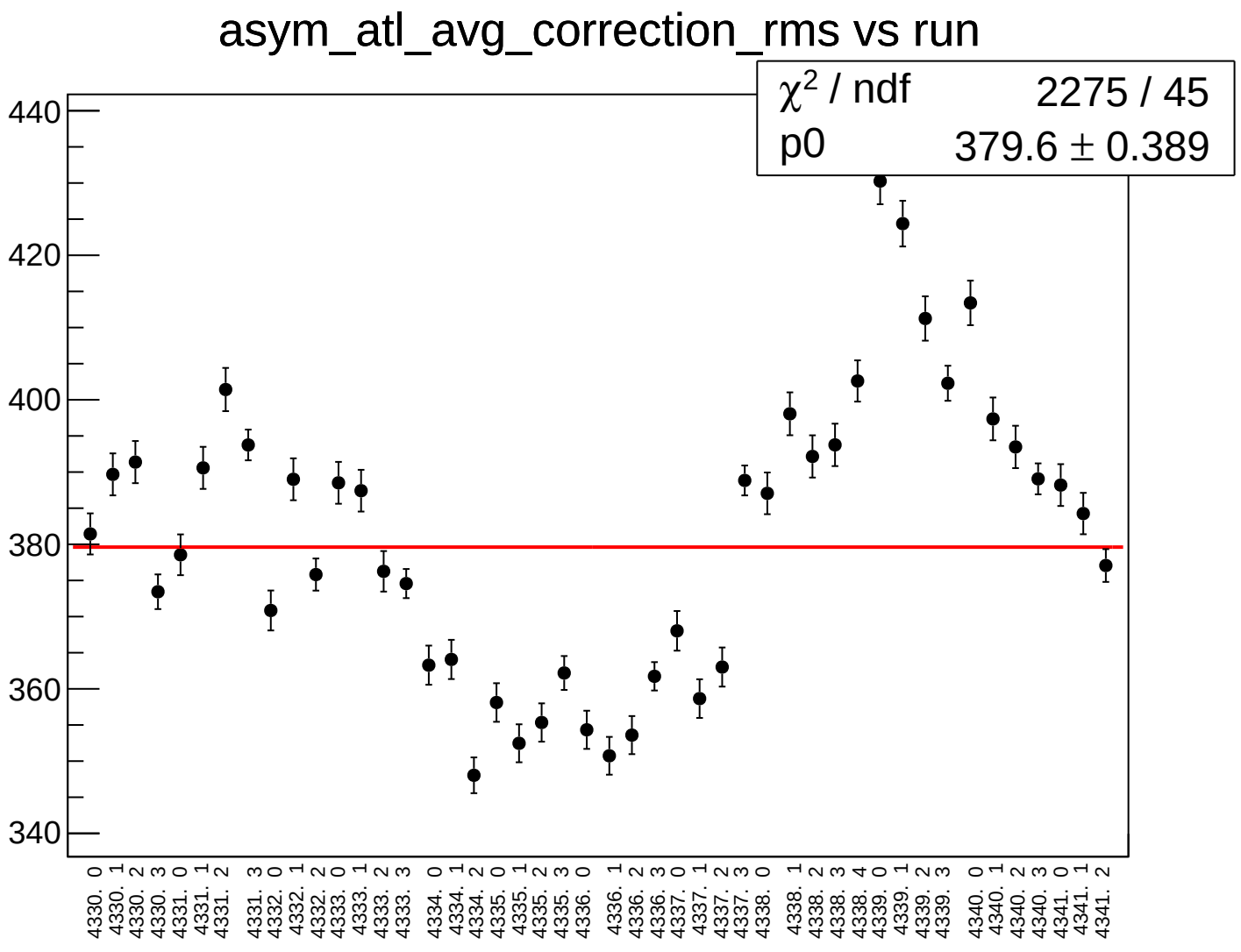

reg_asym_atl_avg_mean vs run
χ² / ndf 51.43 / 45
p0 −1421 ± 523.3
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 138.5
Std Dev 115.4
2
1
0
−1
−2
−3

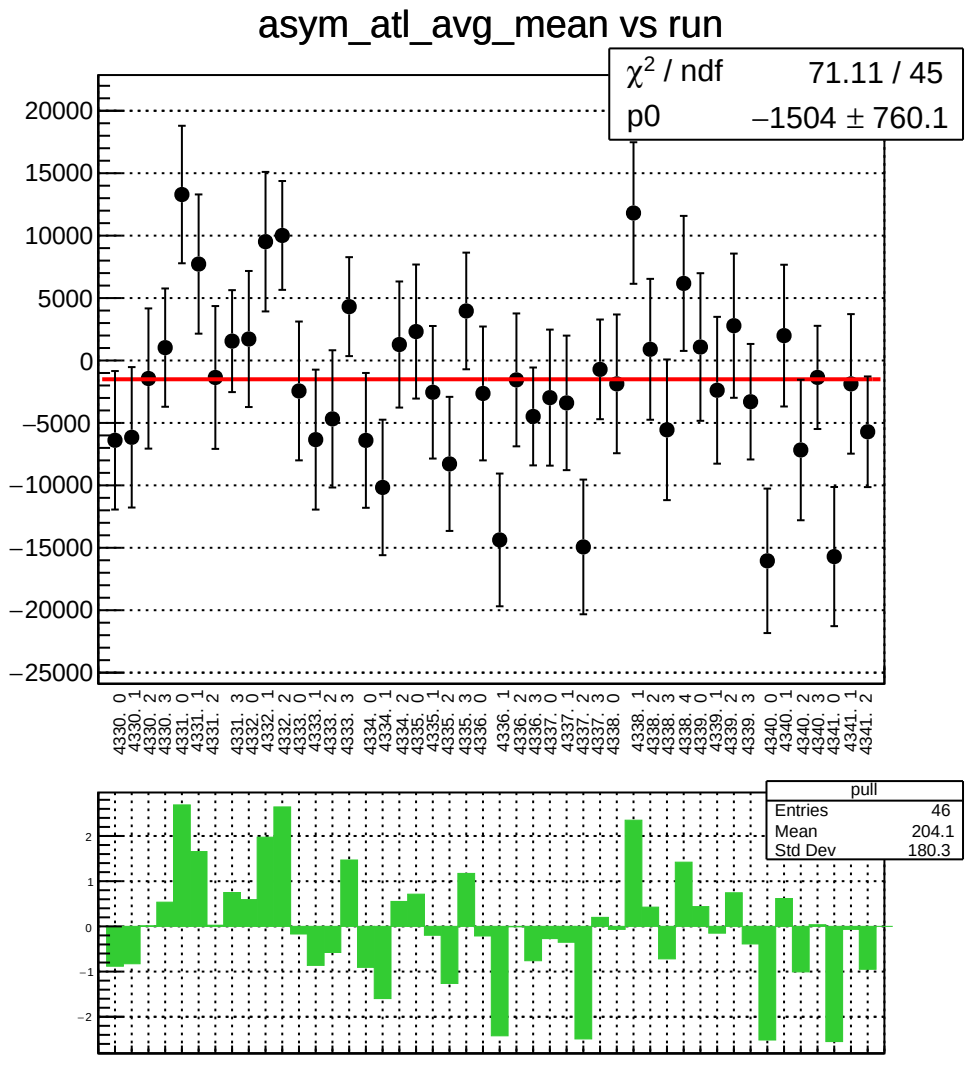

pull1D
Entries 46
Mean −0.03216
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

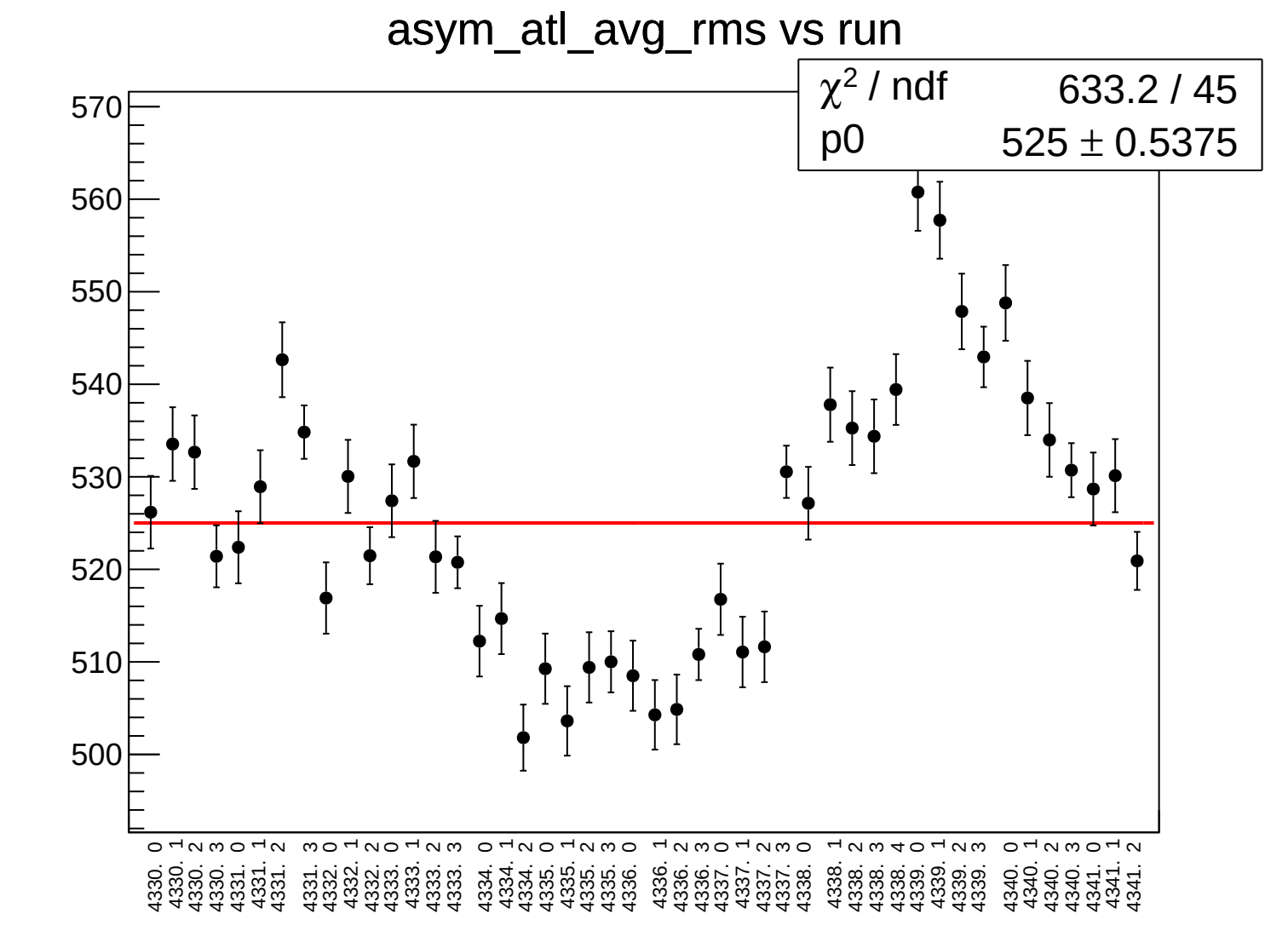

reg_asym_atl_avg_rms vs run
χ^2 / ndf 30.75 / 45
p0 361.5 ± 0.37
368
366
364
362
360
358
356
354
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

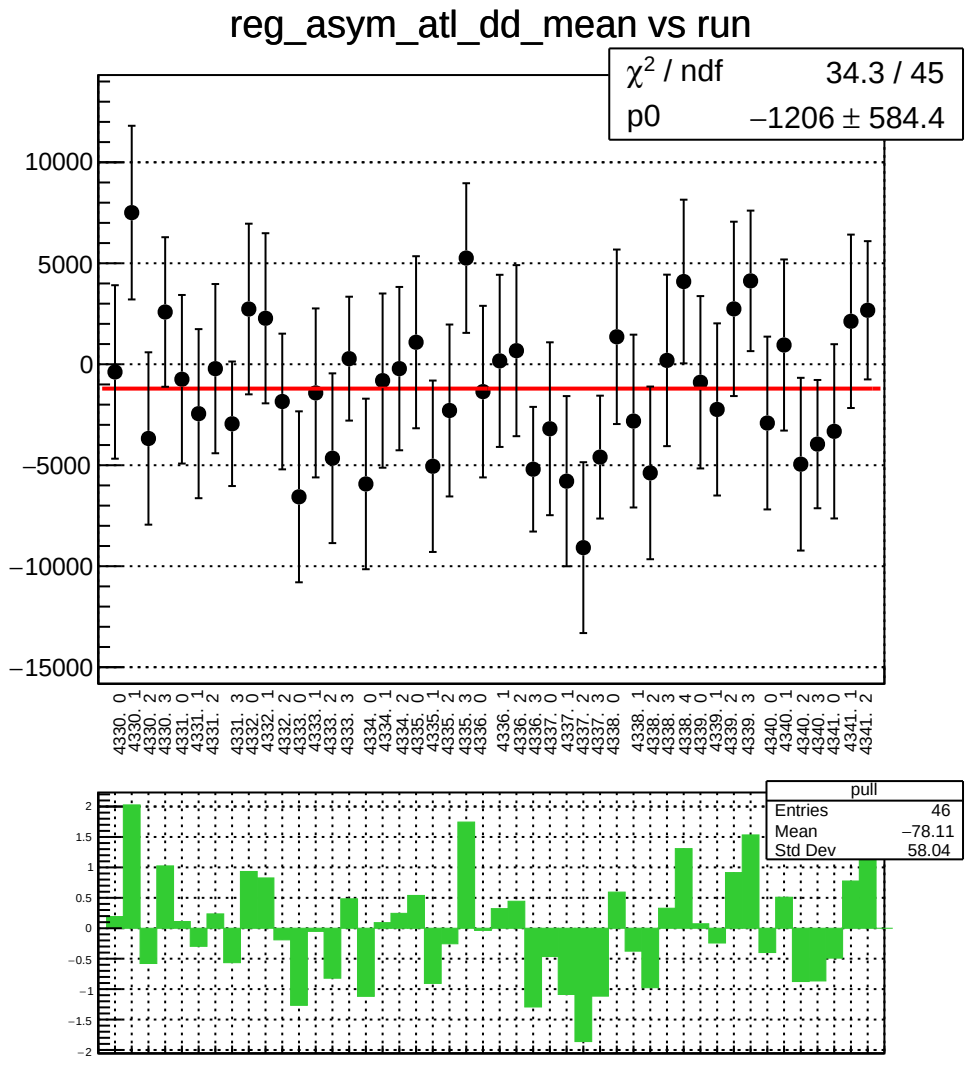

asym_atl_avg_correction_mean vs run
χ² / ndf 65.67 / 45
p0 54.78 ± 550.1
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 374.5
Std Dev 349.7
2
1
0
−1
−2
−3

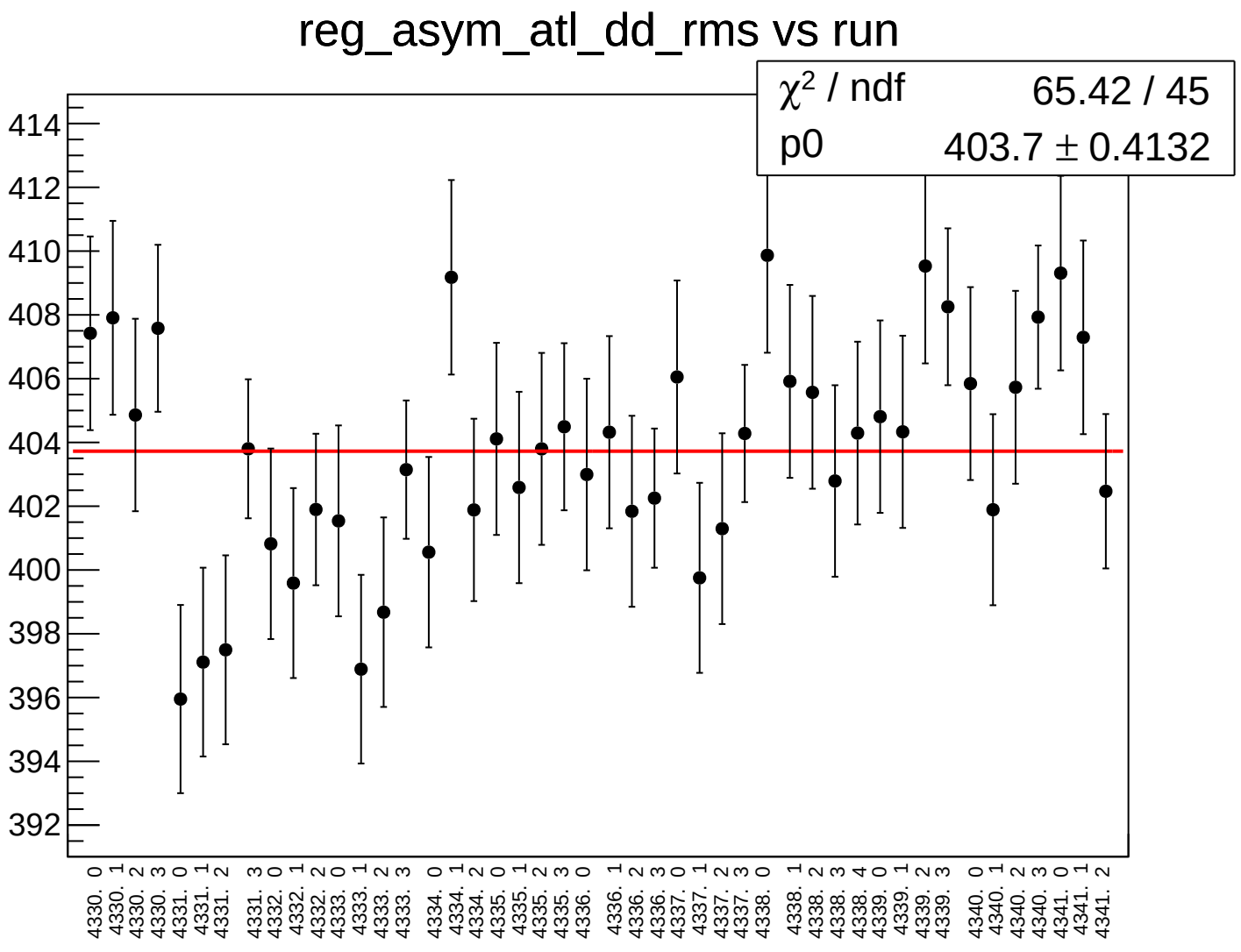

pull1D
Entries 46
Mean 0.008257
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

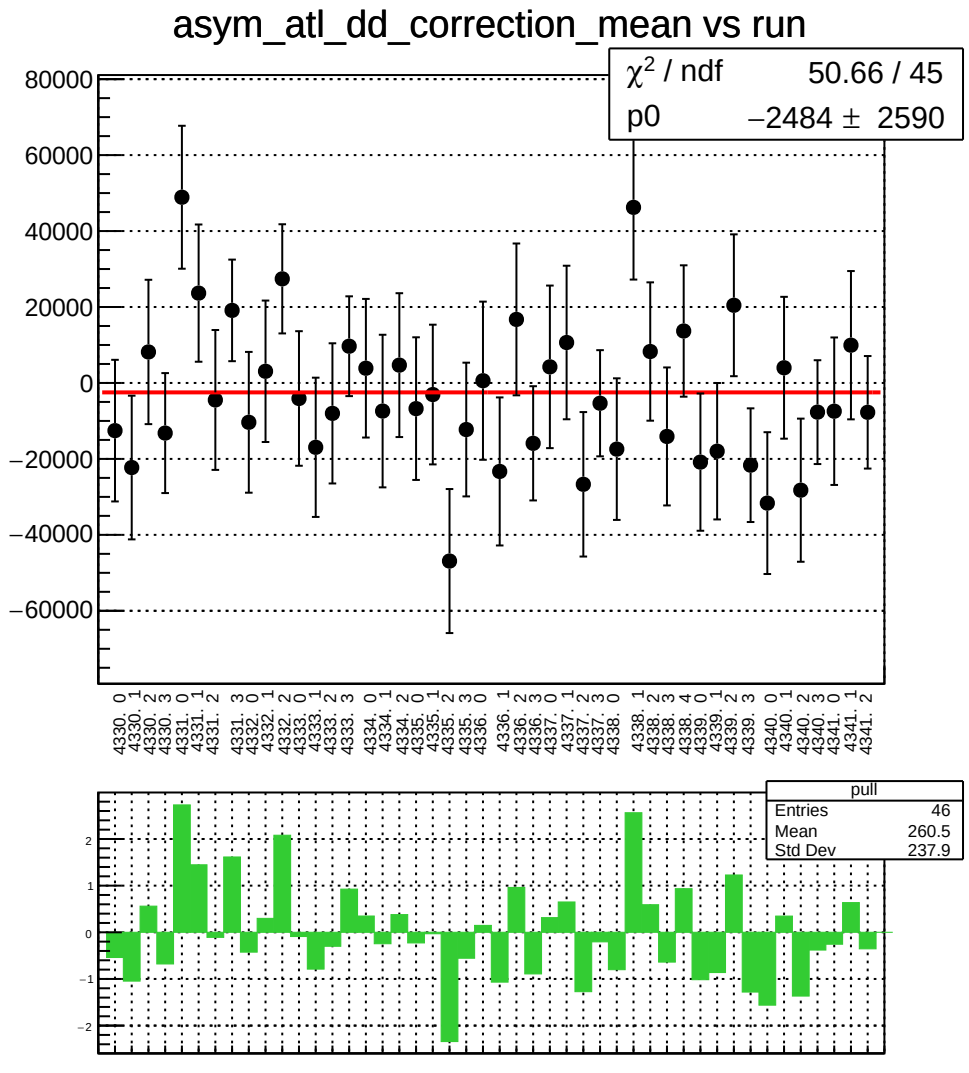

asym_atl_avg_correction_rms vs run
χ² / ndf 2275 / 45
p0 379.6 ± 0.389
440
420
400
380
360
340
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

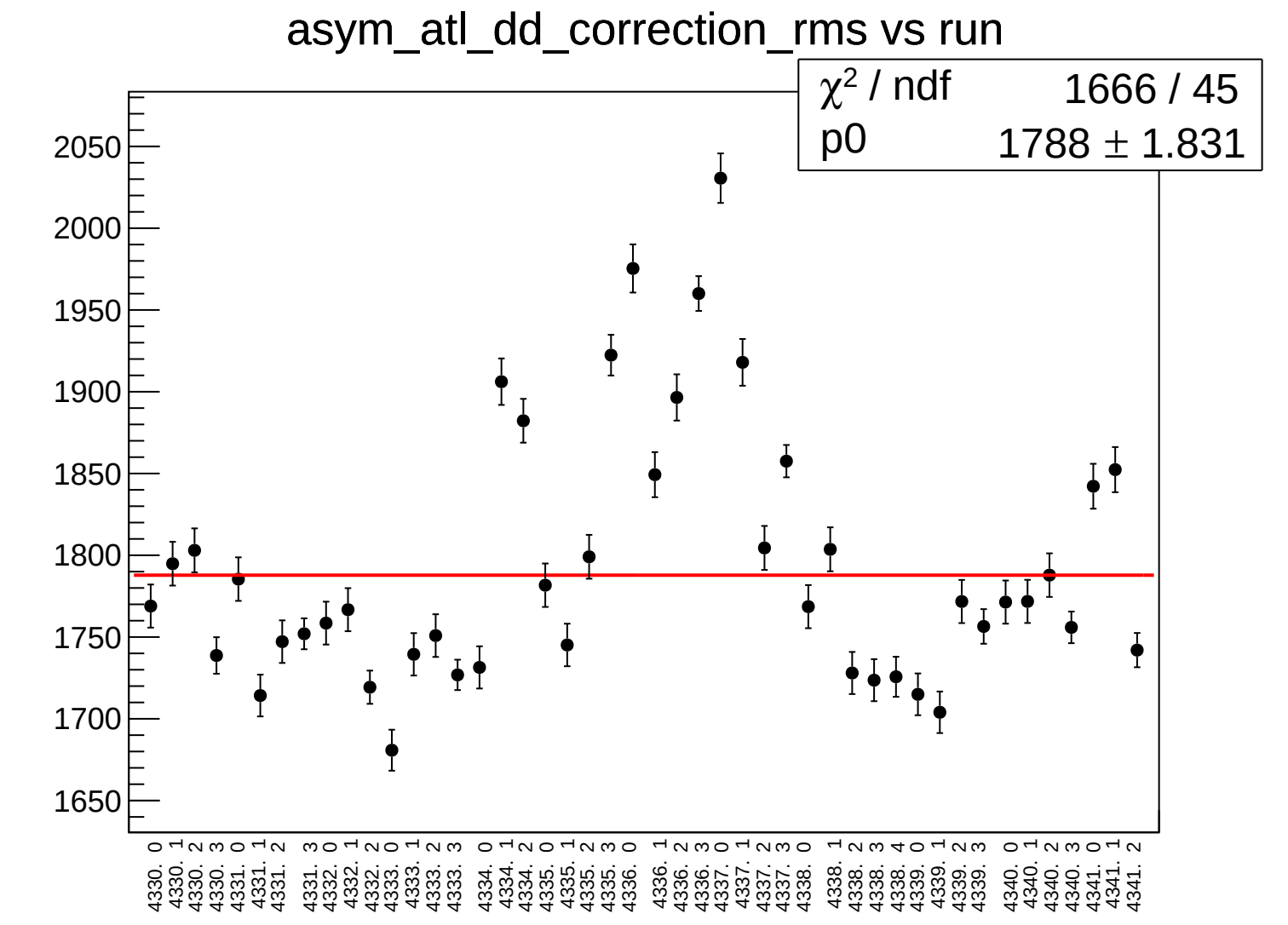

asym_atl_avg_mean vs run
χ² / ndf 71.11 / 45
p0 −1504 ± 760.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 204.1
Std Dev 180.3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.02593
Std Dev 1.243
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

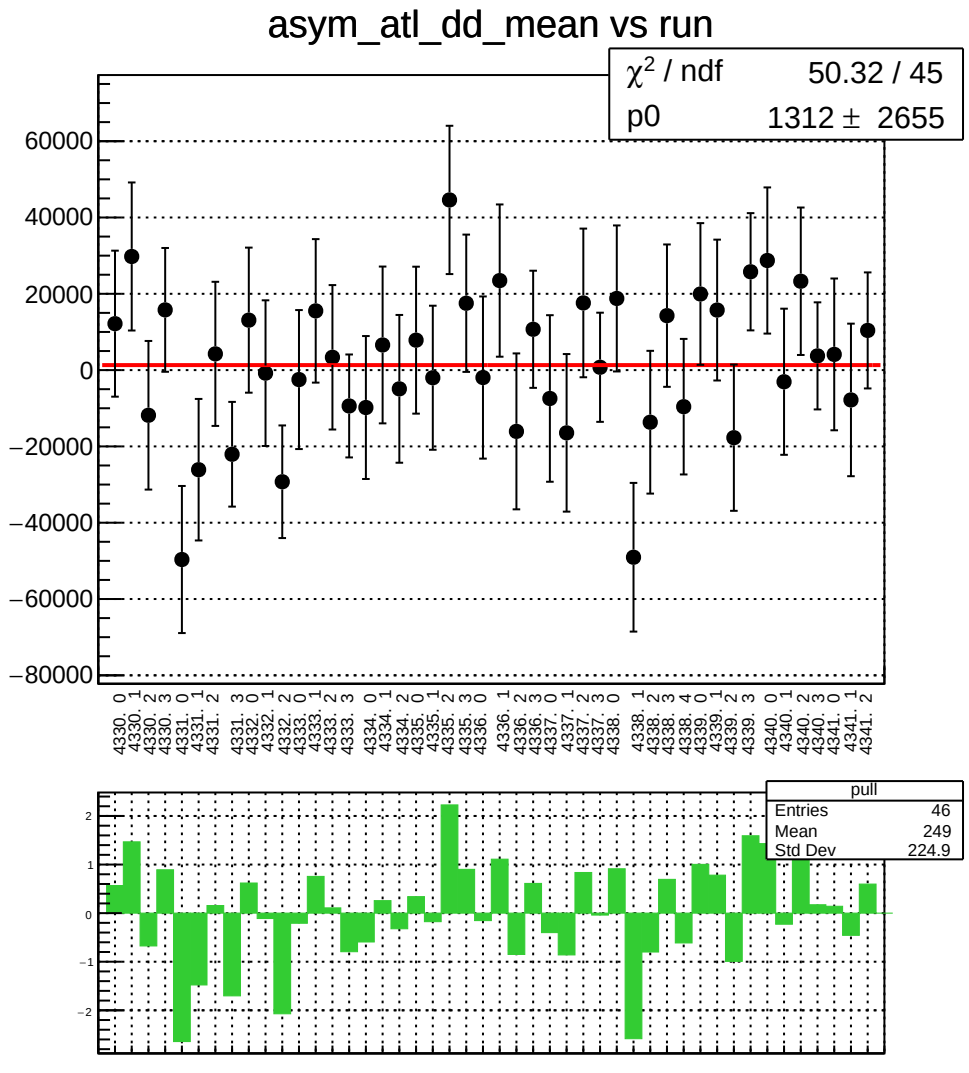

asym_atl_avg_rms vs run
χ² / ndf 633.2 / 45
p0 525 ± 0.5375
570
560
550
540
530
520
510
500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

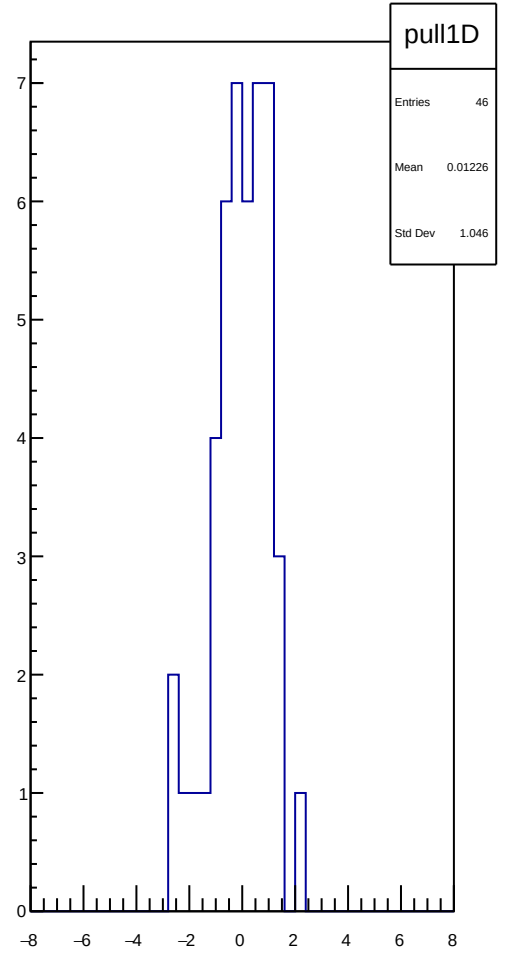

reg_asym_atl_dd_mean vs run
χ² / ndf 34.3 / 45
p0 −1206 ± 584.4
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −78.11
Std Dev 58.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.005625
Std Dev 0.8636
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

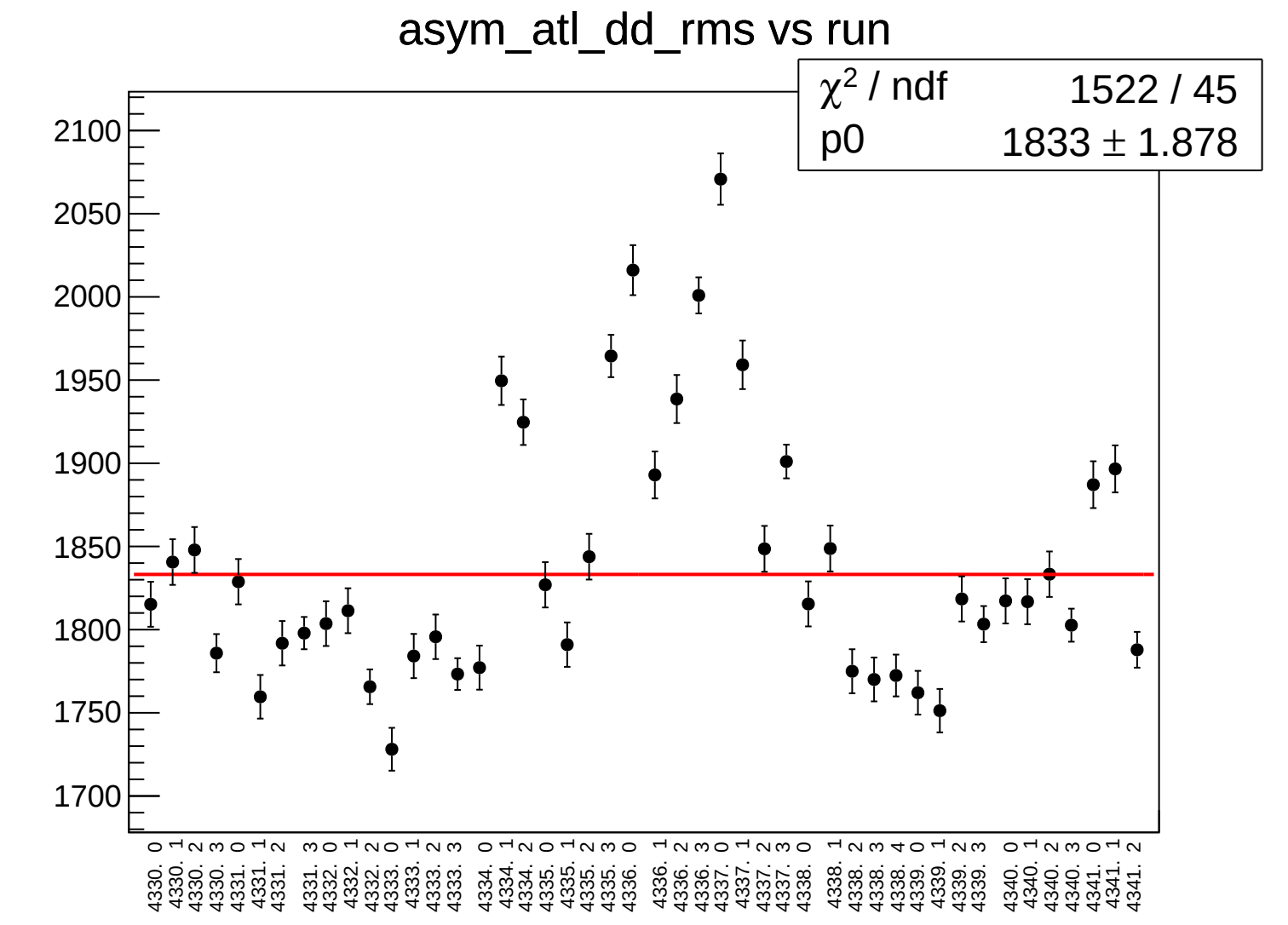

reg_asym_atl_dd_rms vs run
χ² / ndf 65.42 / 45
p0 403.7 ± 0.4132
414
412
410
408
406
404
402
400
398
396
394
392
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

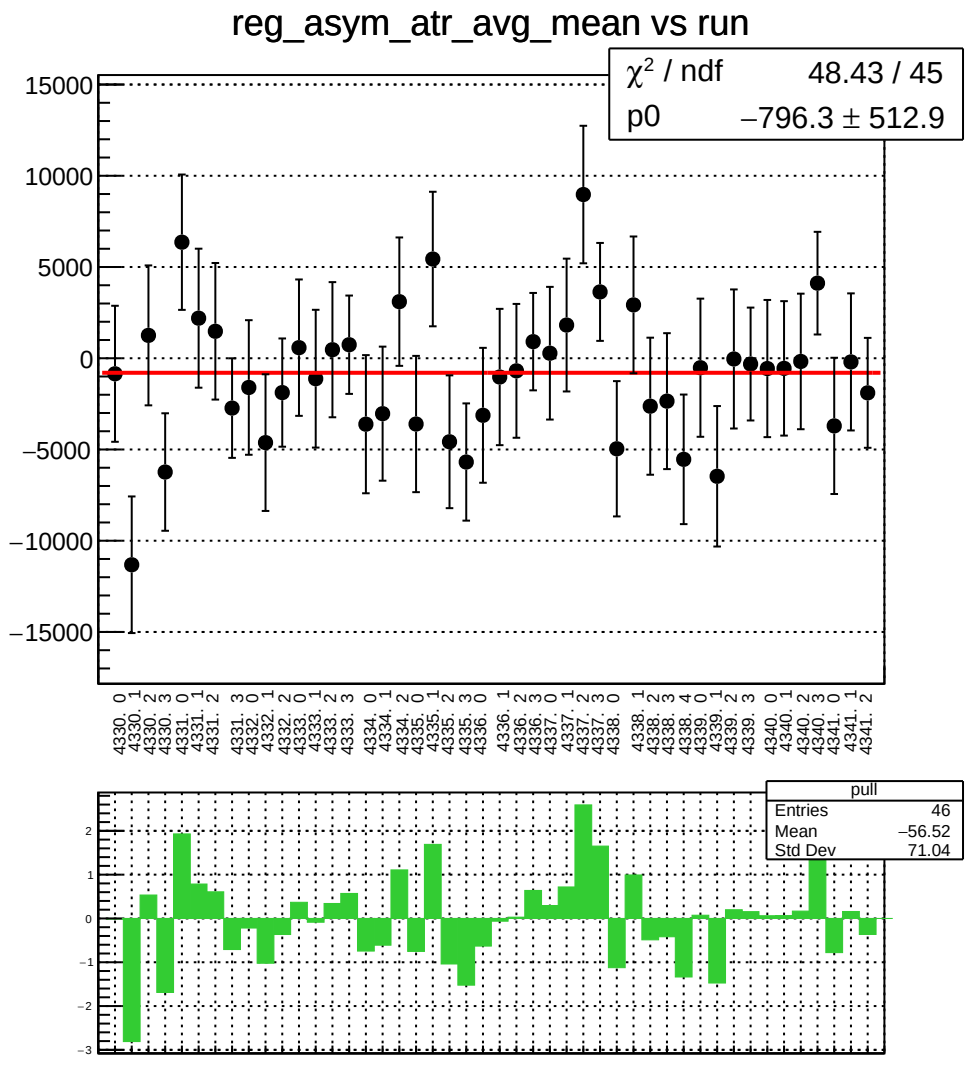

asym_atl_dd_correction_mean vs run
χ² / ndf 50.66 / 45
p0 −2484 ± 2590
80000
60000
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 260.5
Std Dev 237.9
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01246
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

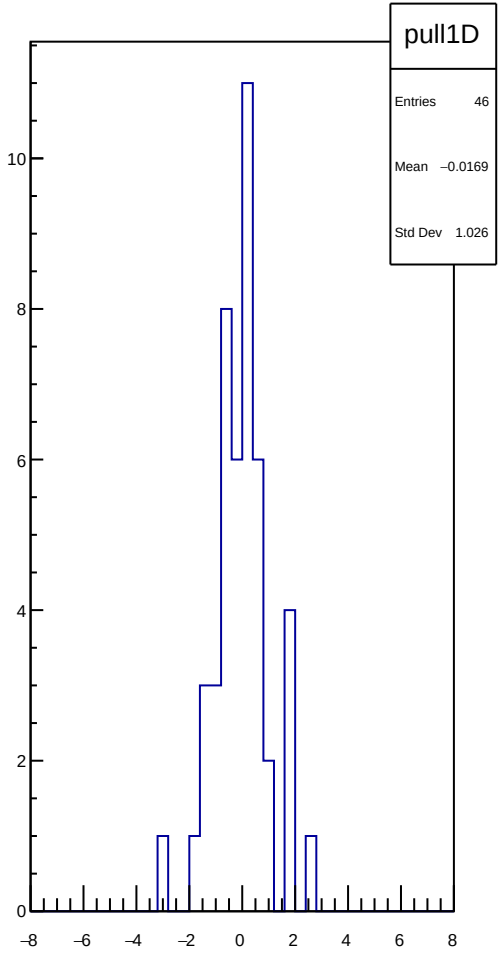

asym_atl_dd_correction_rms vs run
χ² / ndf 1666 / 45
p0 1788 ± 1.831
2050
2000
1950
1900
1850
1800
1750
1700
1650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

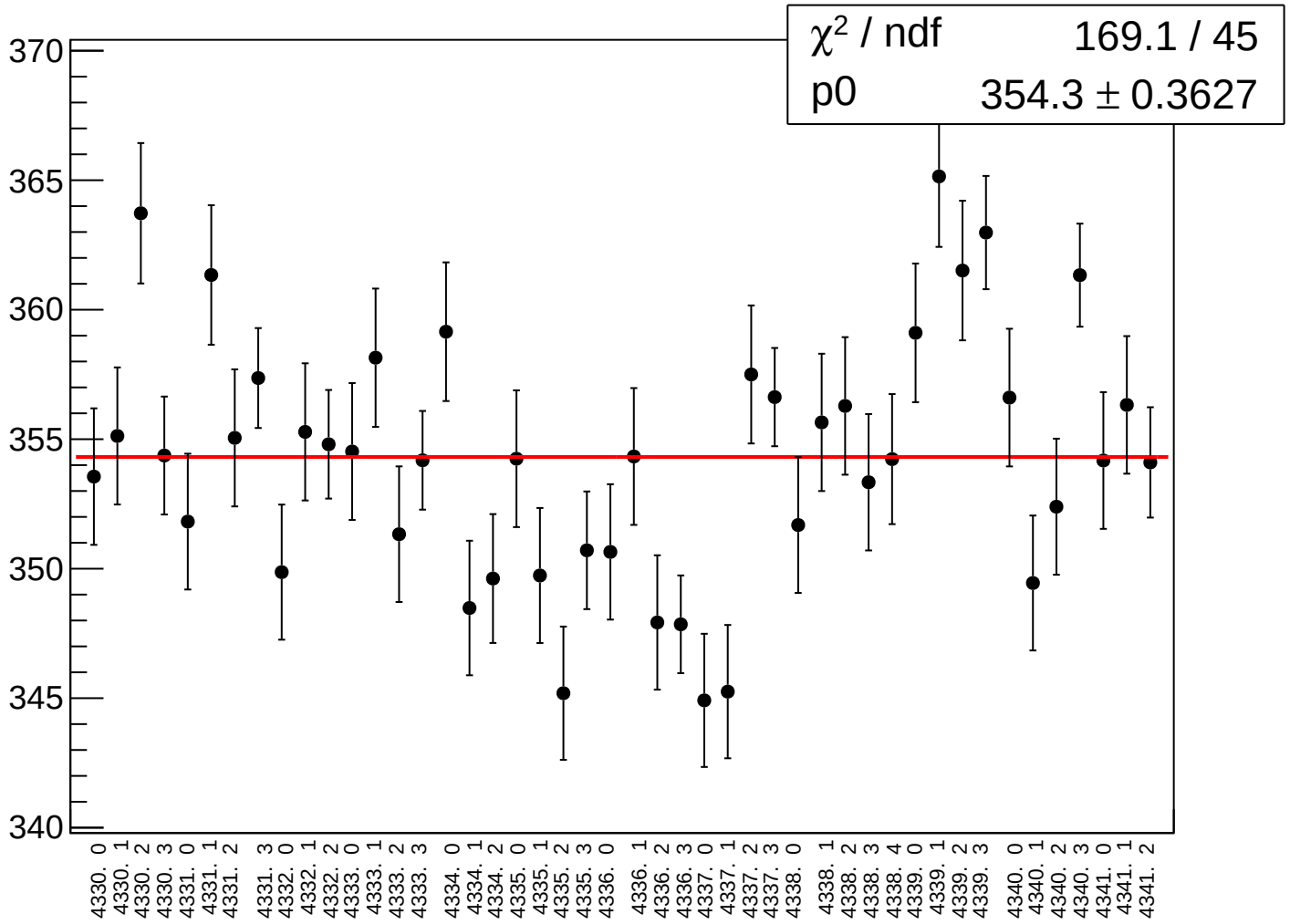

asym_atl_dd_mean vs run
χ² / ndf 50.32 / 45
p0 1312 ± 2655
pull
Entries 46
Mean 249
Std Dev 224.9

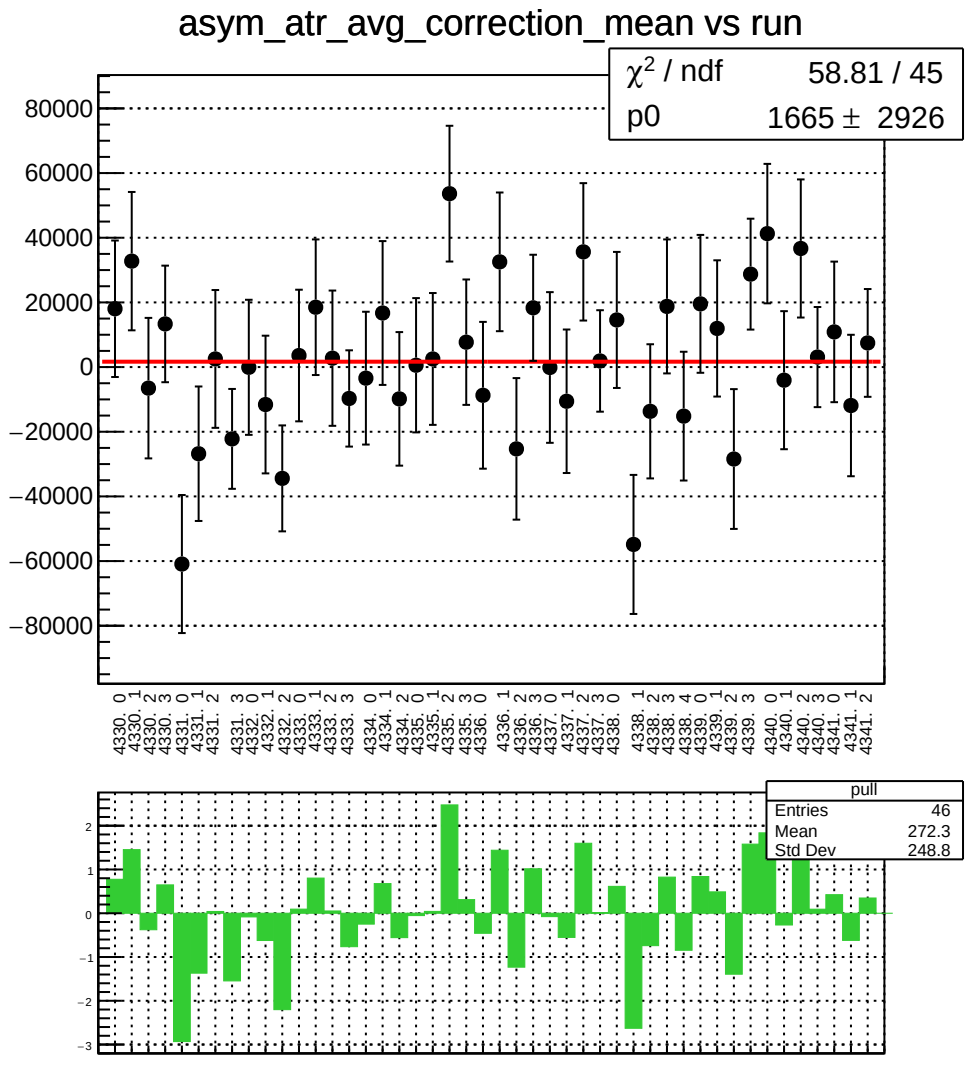

pull1D
Entries 46
Mean 0.01226
Std Dev 1.046

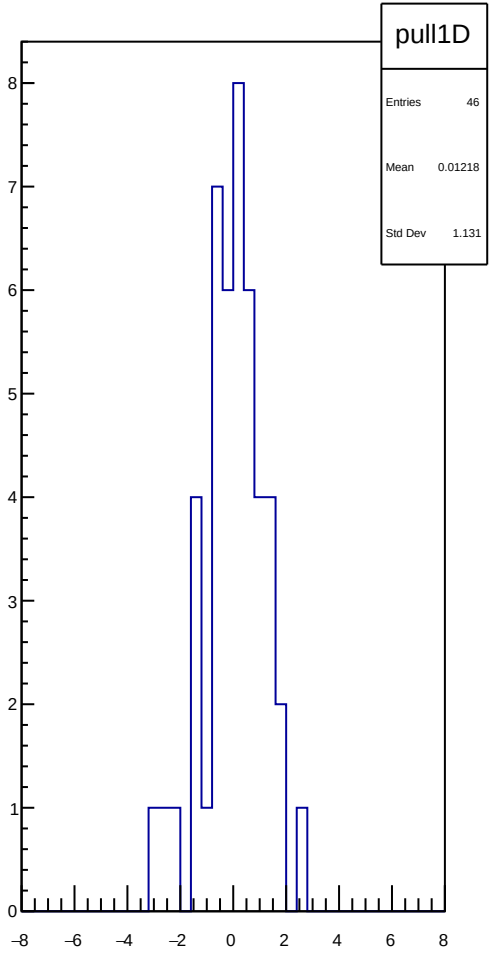

asym_atl_dd_rms vs run
χ² / ndf 1522 / 45
p0 1833 ± 1.878
2100
2050
2000
1950
1900
1850
1800
1750
1700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

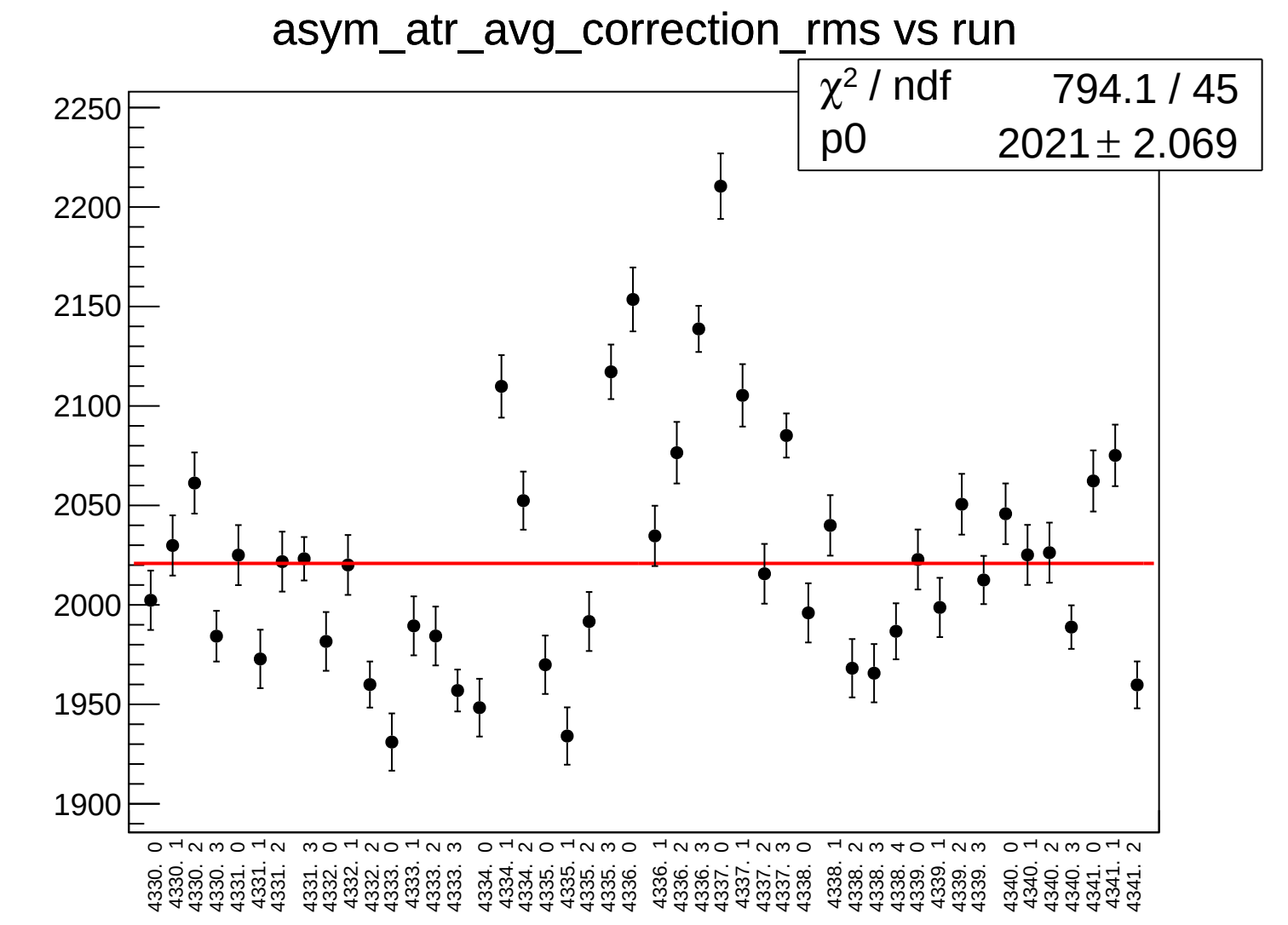

reg_asym_atr_avg_mean vs run
χ² / ndf 48.43 / 45
p0 −796.3 ± 512.9
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −56.52
Std Dev 71.04
2
1
0
−1
−2
−3

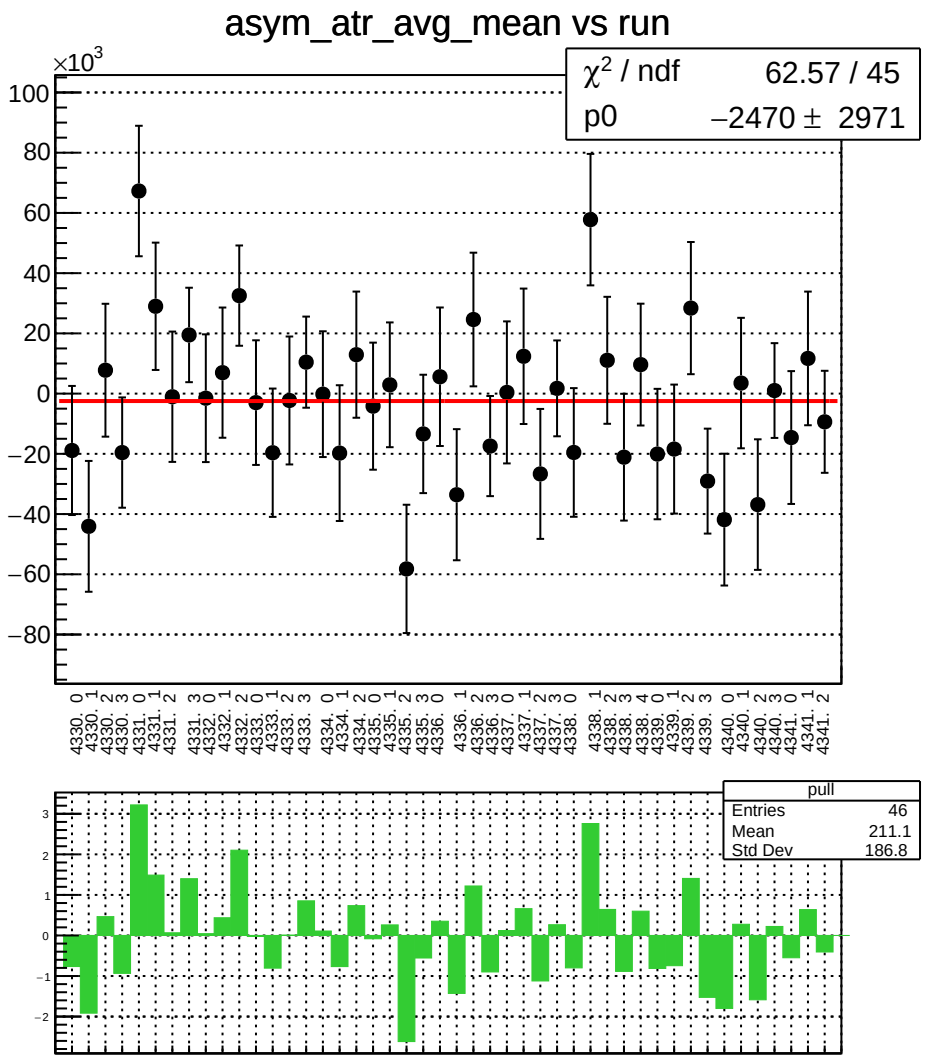

pull1D
Entries 46
Mean −0.0169
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

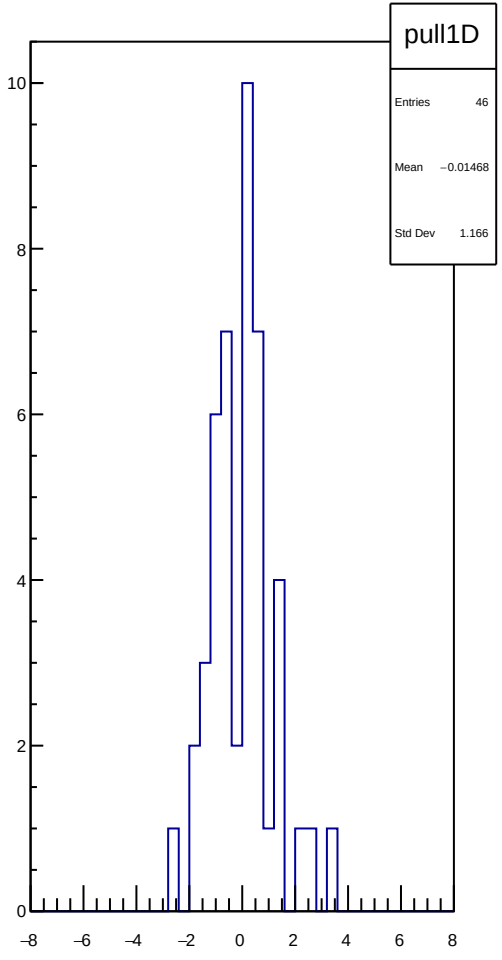

reg_asym_atr_avg_rms vs run
χ² / ndf 169.1 / 45
p0 354.3 ± 0.3627
370
365
360
355
350
345
340
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

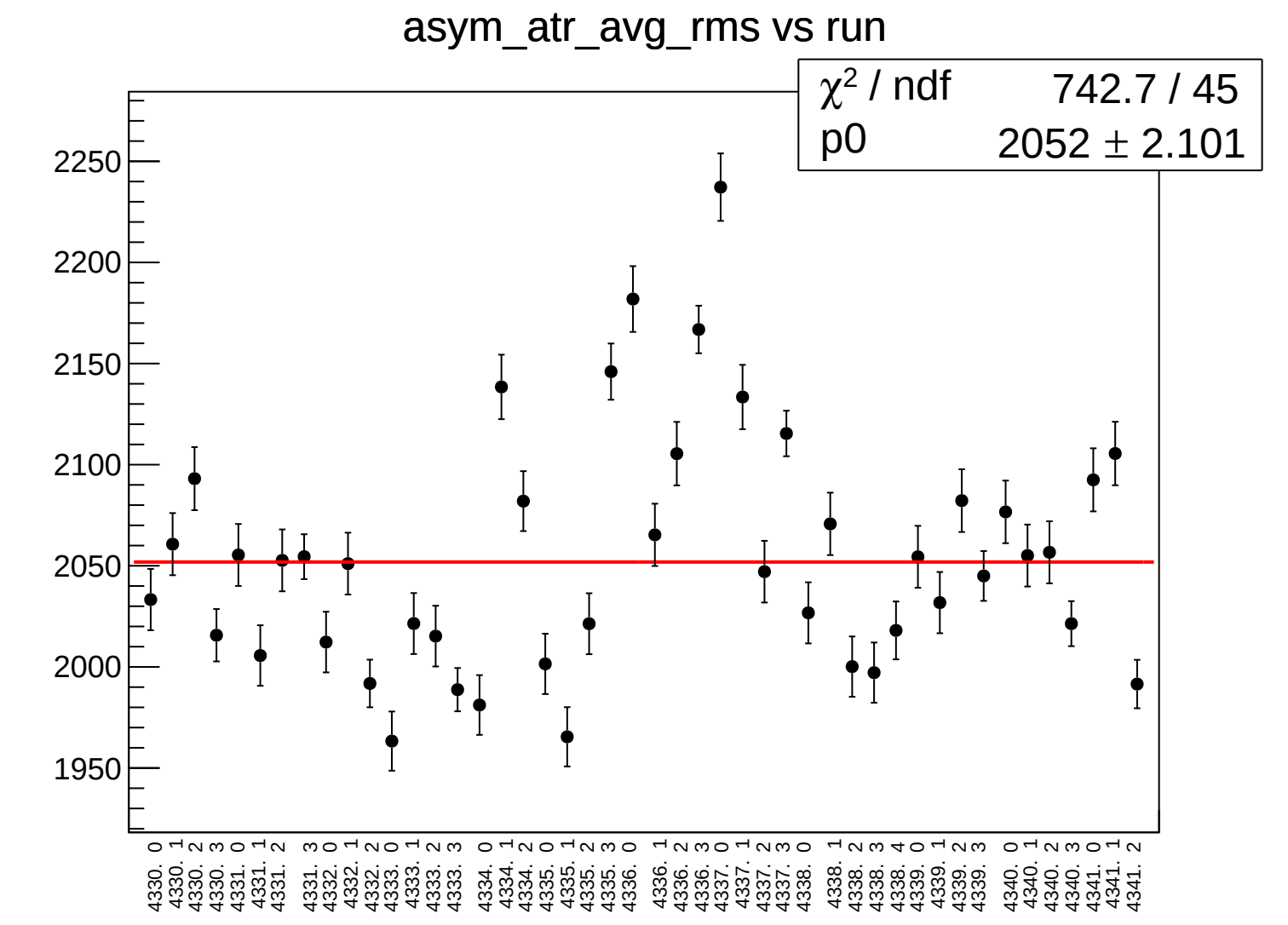

asym_atr_avg_correction_mean vs run
χ² / ndf 58.81 / 45
p0 1665 ± 2926
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 272.3
Std Dev 248.8
2
1
0
−1
−2
−3

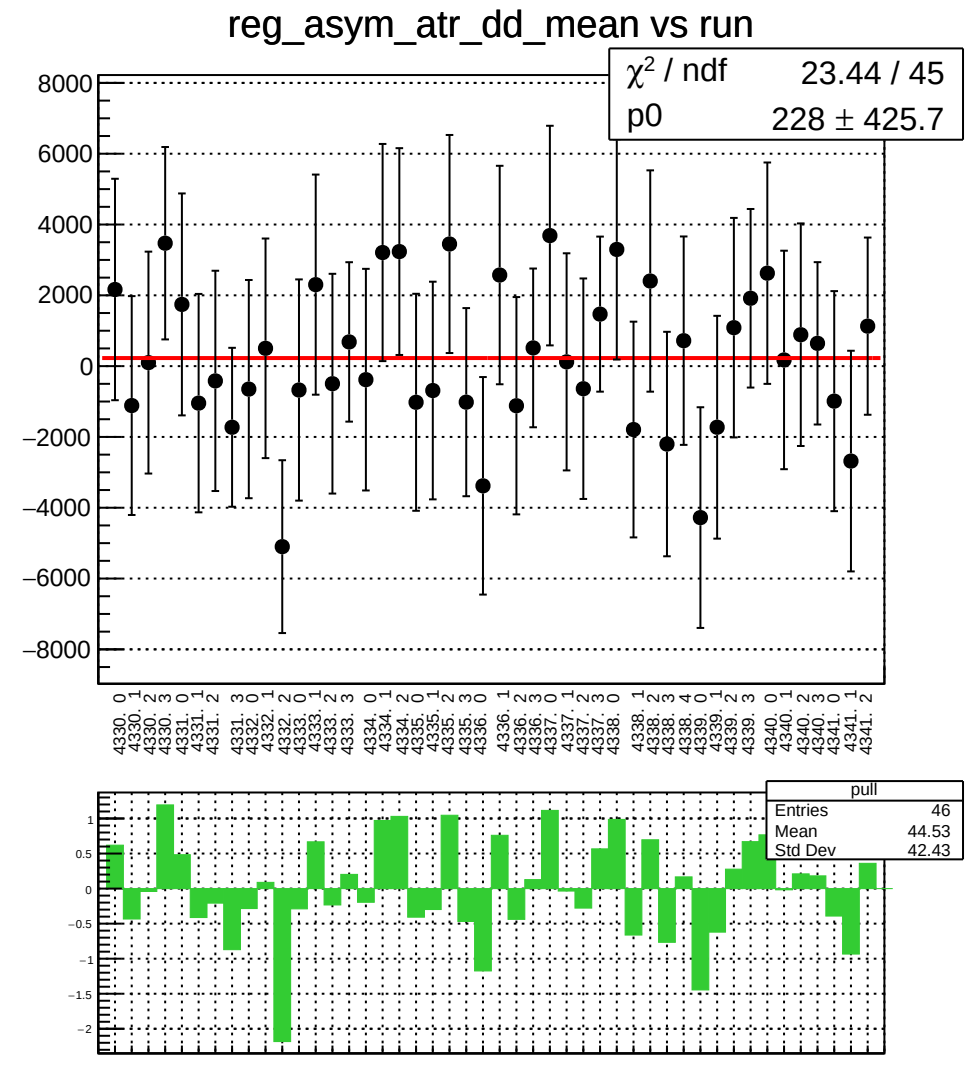

pull1D
Entries 46
Mean 0.01218
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

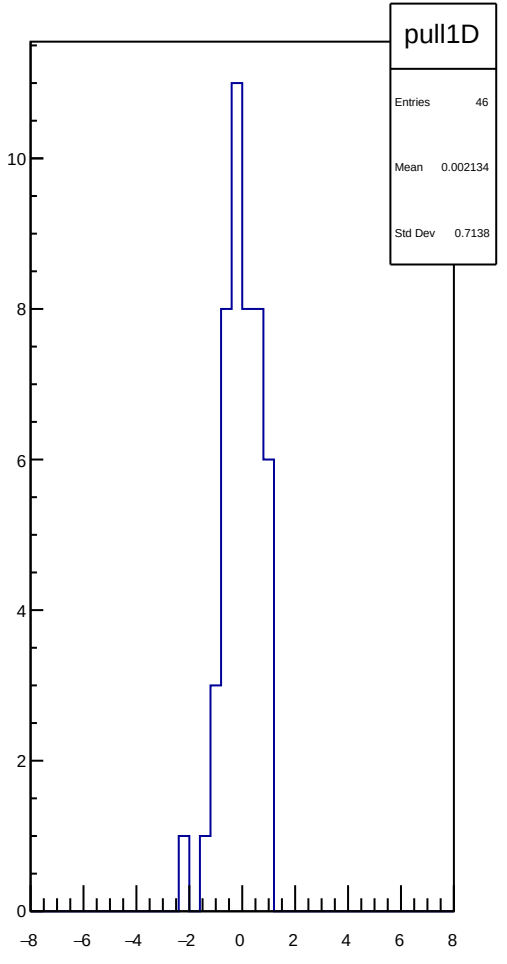

asym_atr_avg_correction_rms vs run
χ² / ndf 794.1 / 45
p0 2021 ± 2.069
2250
2200
2150
2100
2050
2000
1950
1900
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

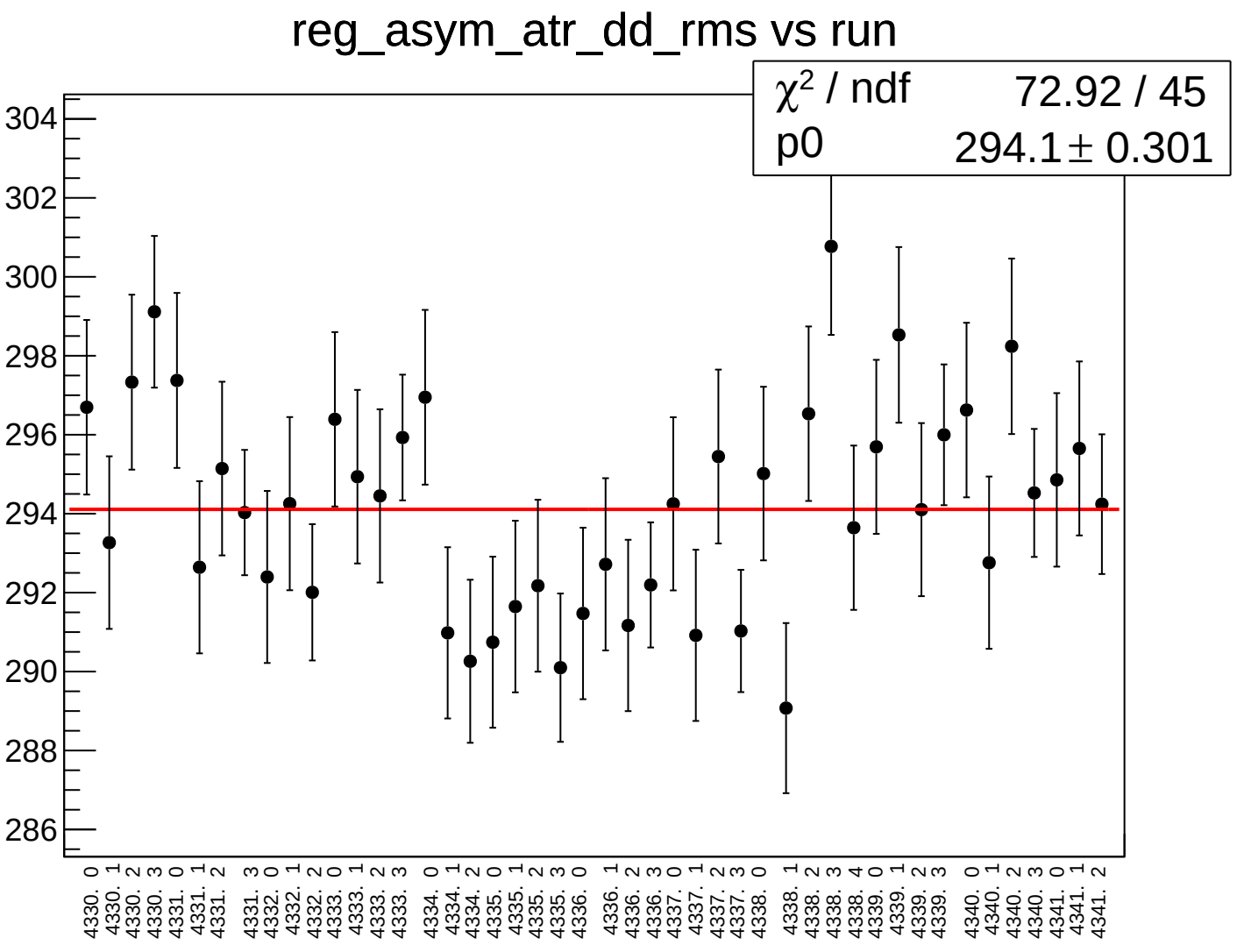

asym_atr_avg_mean vs run
×10^3
χ² / ndf 62.57 / 45
p0 −2470 ± 2971
100
80
60
40
20
0
−20
−40
−60
−80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 211.1
Std Dev 186.8
3
2
1
0
−1
−2

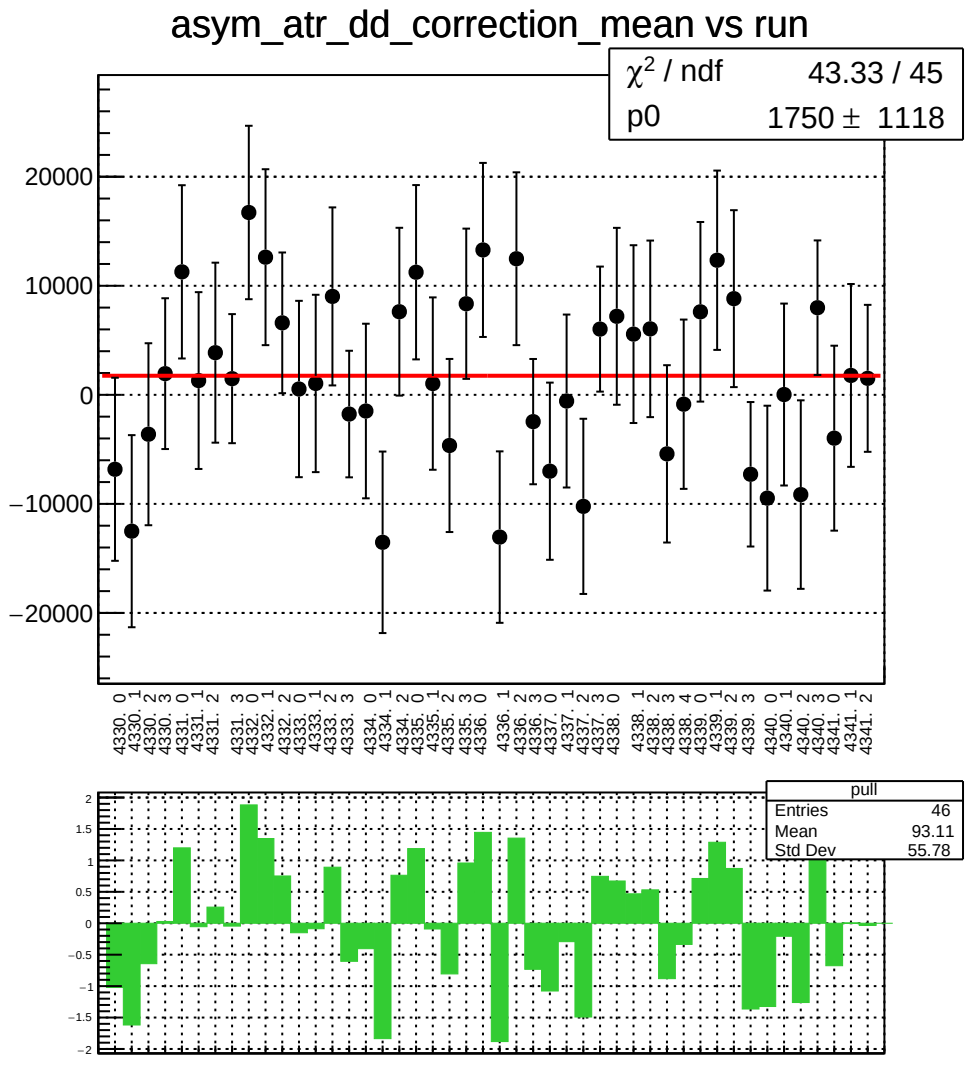

pull1D
Entries 46
Mean −0.01468
Std Dev 1.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

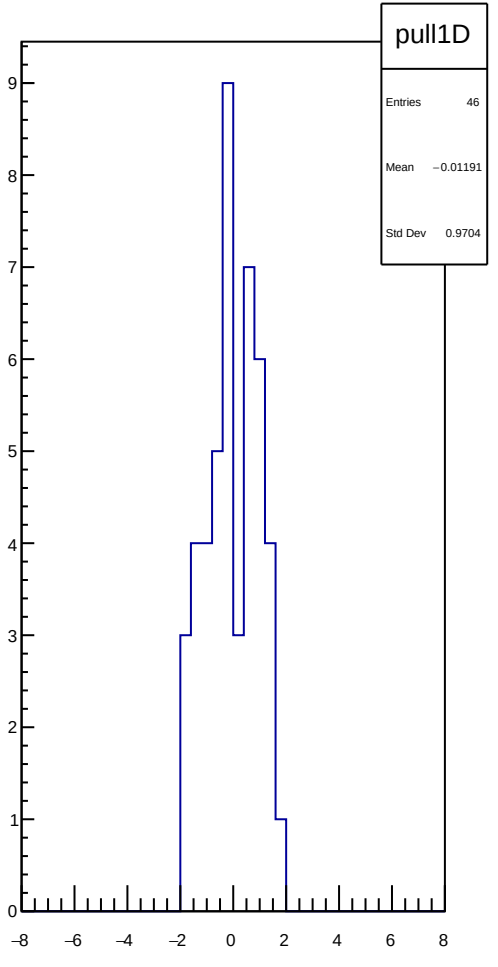

asym_atr_avg_rms vs run
χ² / ndf 742.7 / 45
p0 2052 ± 2.101
2250
2200
2150
2100
2050
2000
1950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

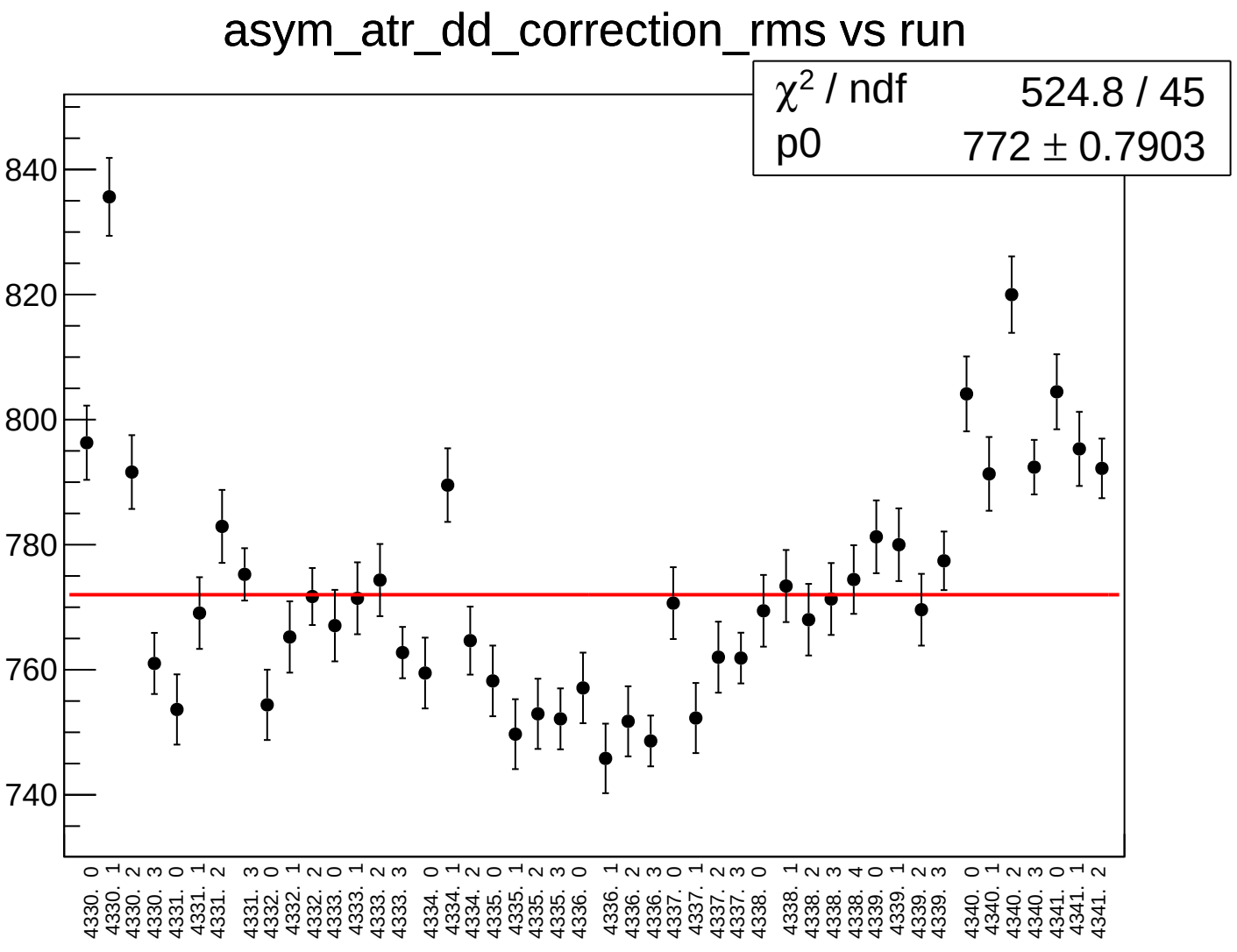

reg_asym_atr_dd_mean vs run
χ² / ndf 23.44 / 45
p0 228 ± 425.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 44.53
Std Dev 42.43
1
0.5
0
−0.5
−1
−1.5
−2

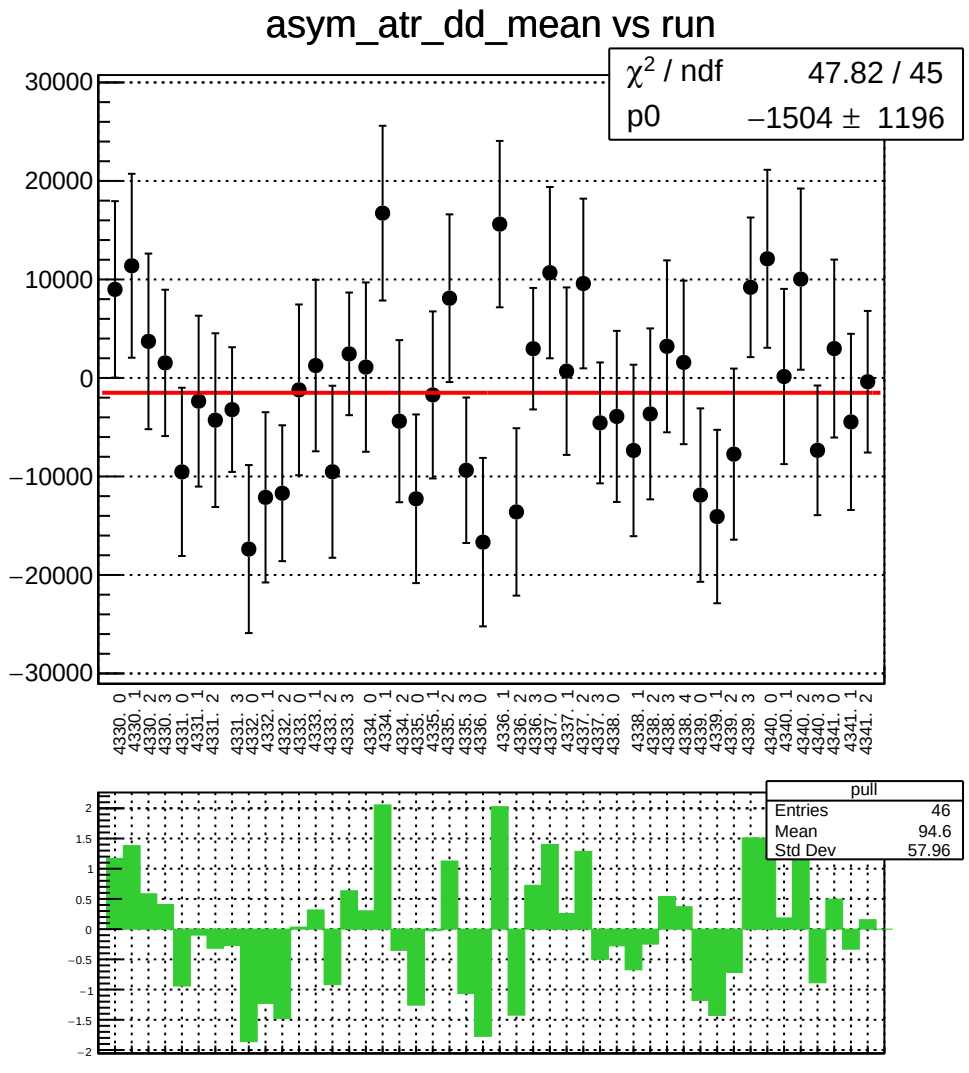

pull1D
Entries 46
Mean 0.002134
Std Dev 0.7138
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

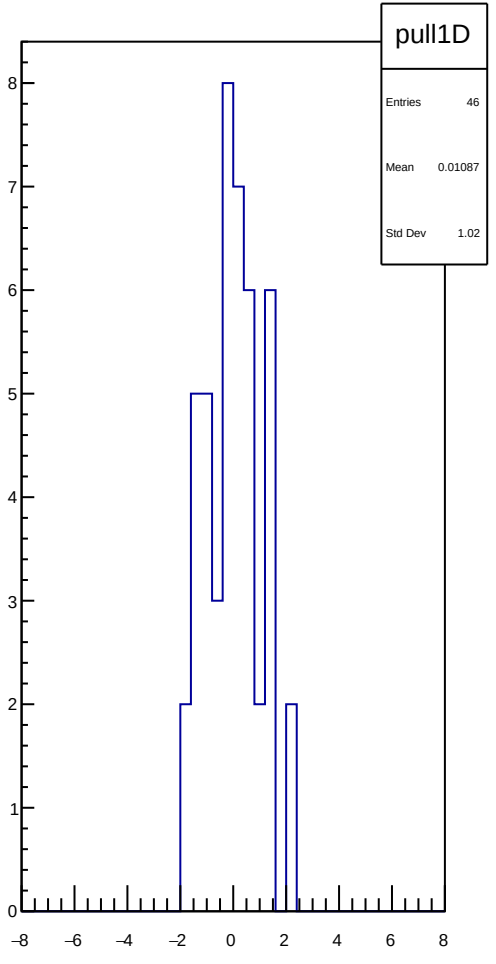

reg_asym_atr_dd_rms vs run
χ² / ndf 72.92 / 45
p0 294.1 ± 0.301
304
302
300
298
296
294
292
290
288
286
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

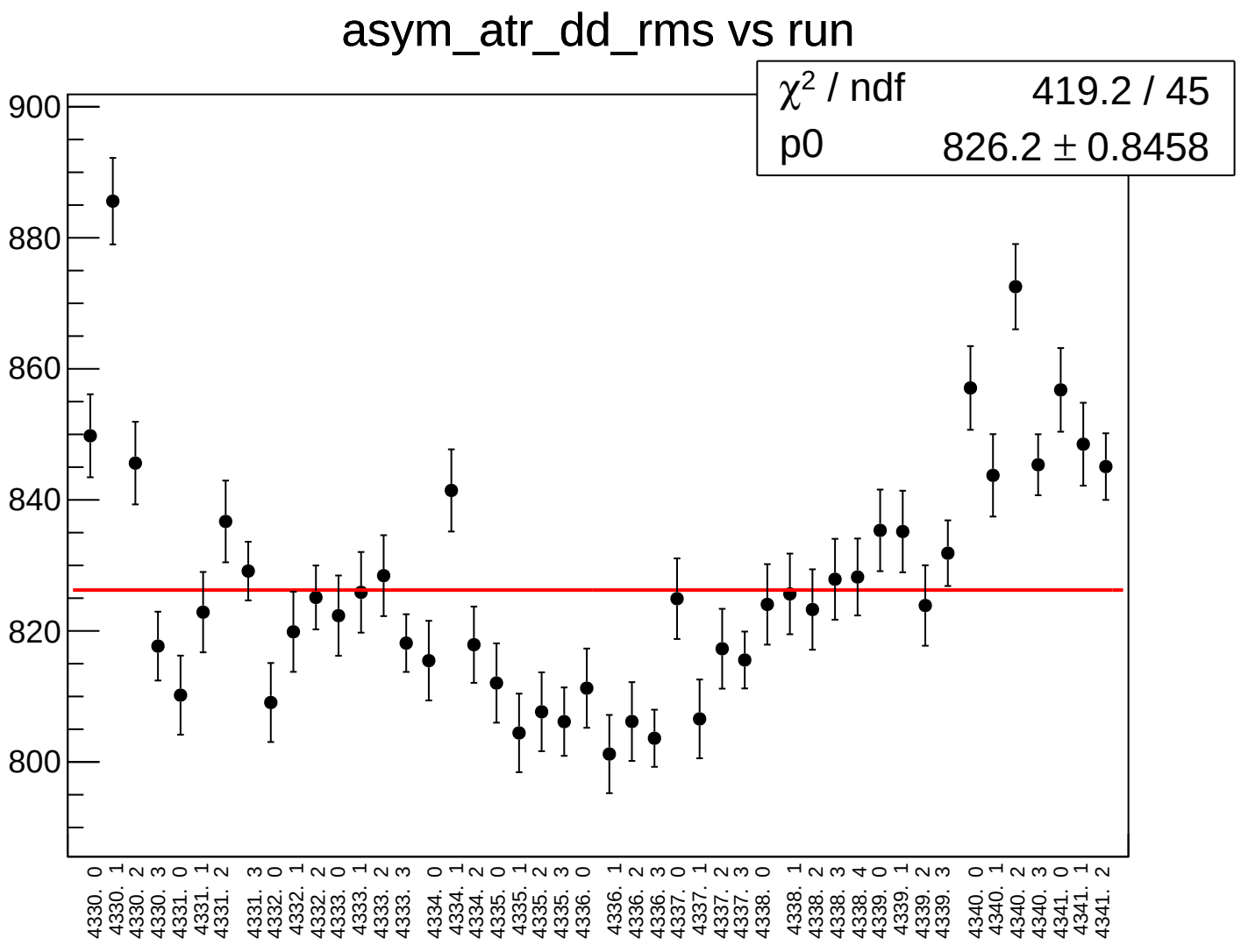

asym_atr_dd_correction_mean vs run
χ² / ndf 43.33 / 45
p0 1750 ± 1118
20000
10000
0
−10000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 93.11
Std Dev 55.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

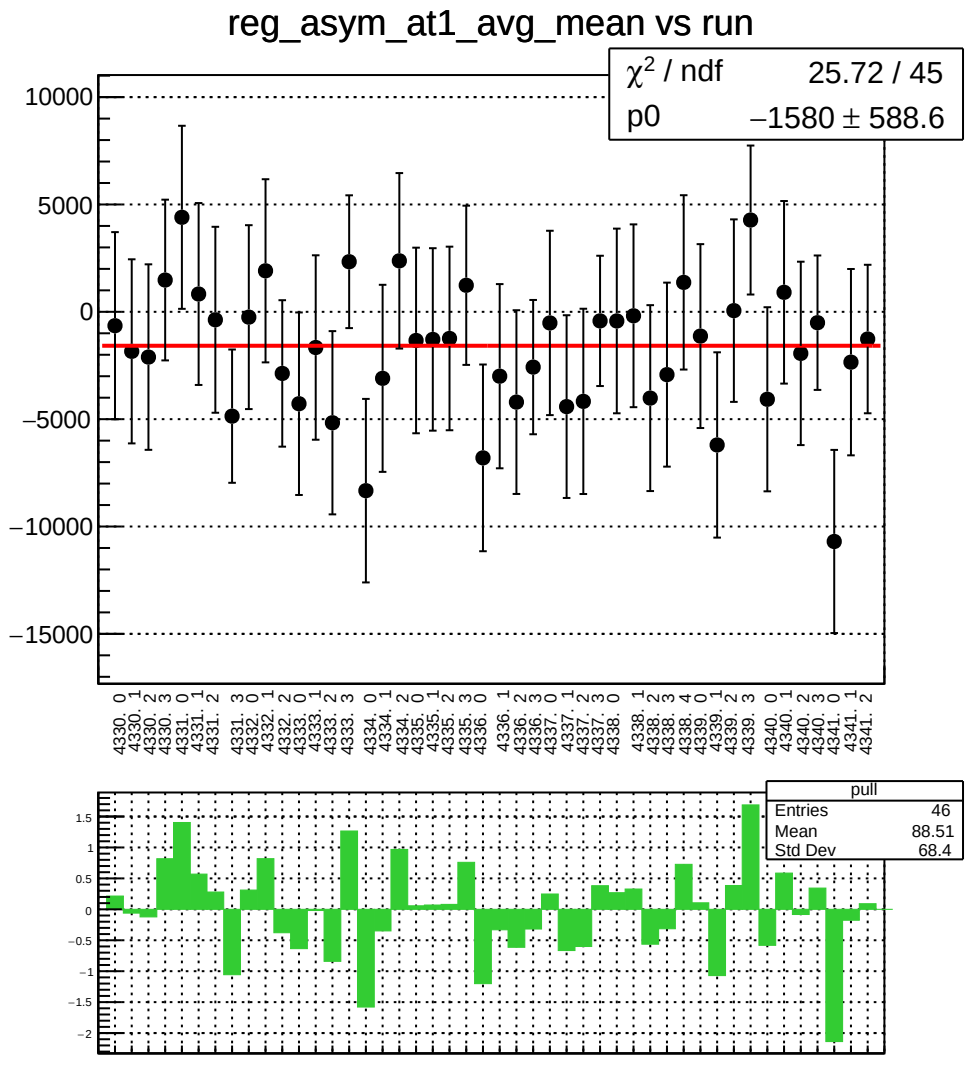

pull1D
Entries 46
Mean −0.01191
Std Dev 0.9704
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

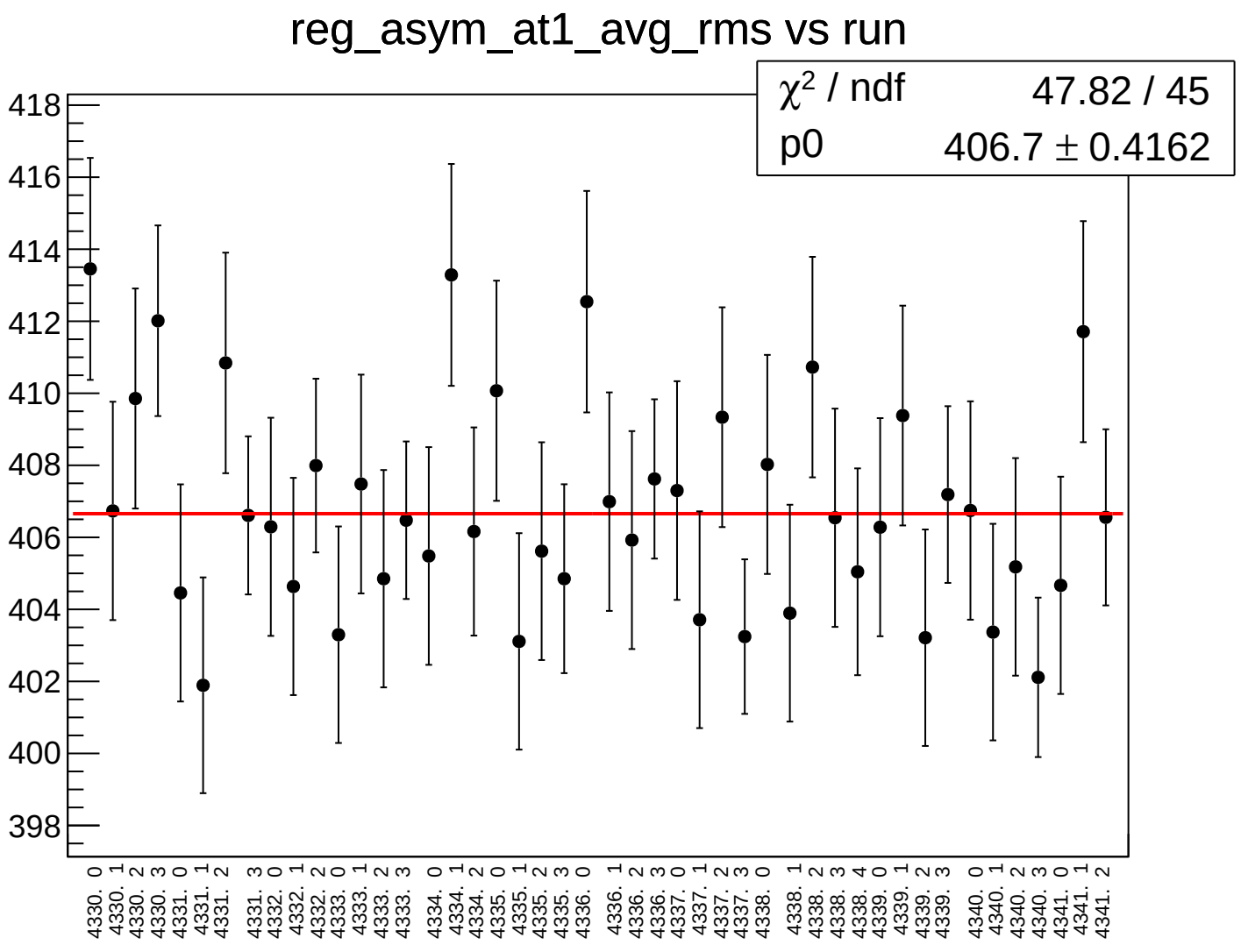

asym_atr_dd_correction_rms vs run
χ^2 / ndf 524.8 / 45
p0 772 ± 0.7903
840
820
800
780
760
740
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

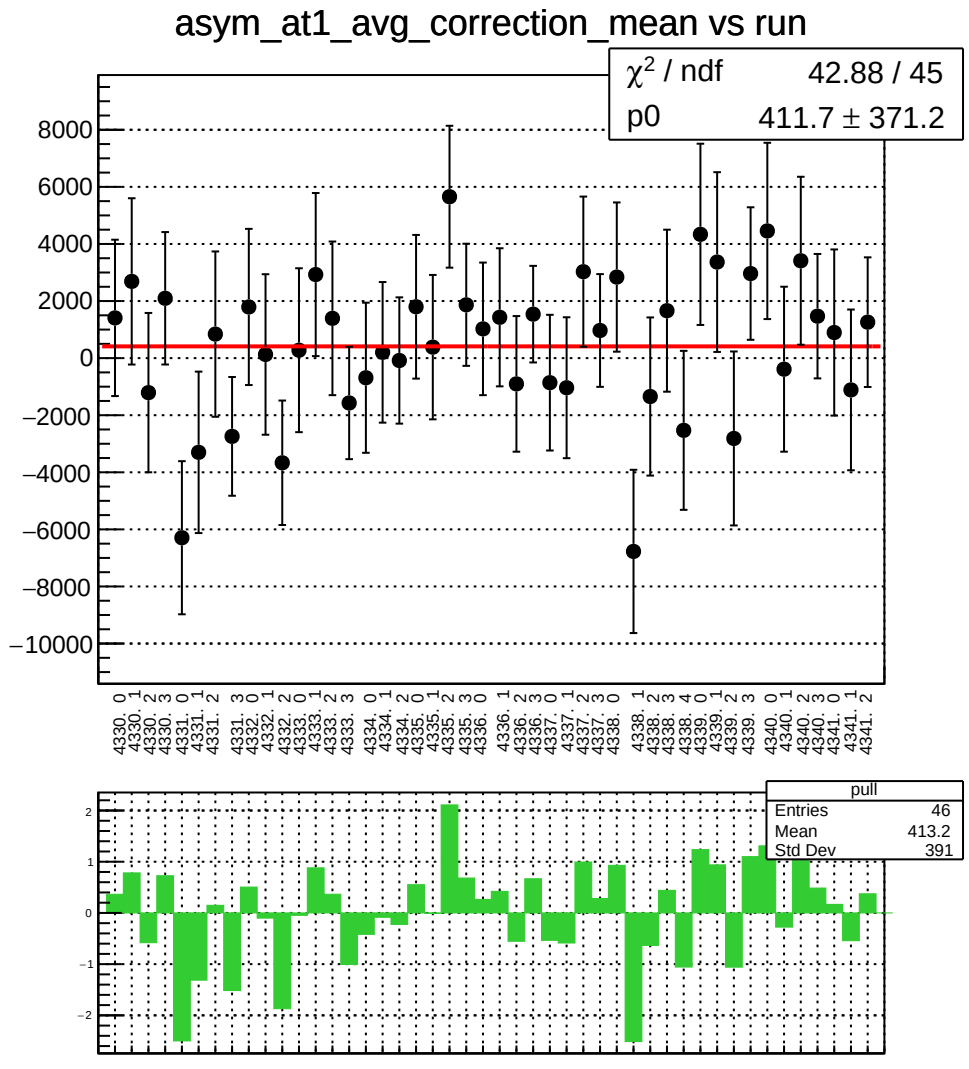

asym_atr_dd_mean vs run
χ² / ndf 47.82 / 45
p0 −1504 ± 1196
pull
Entries 46
Mean 94.6
Std Dev 57.96

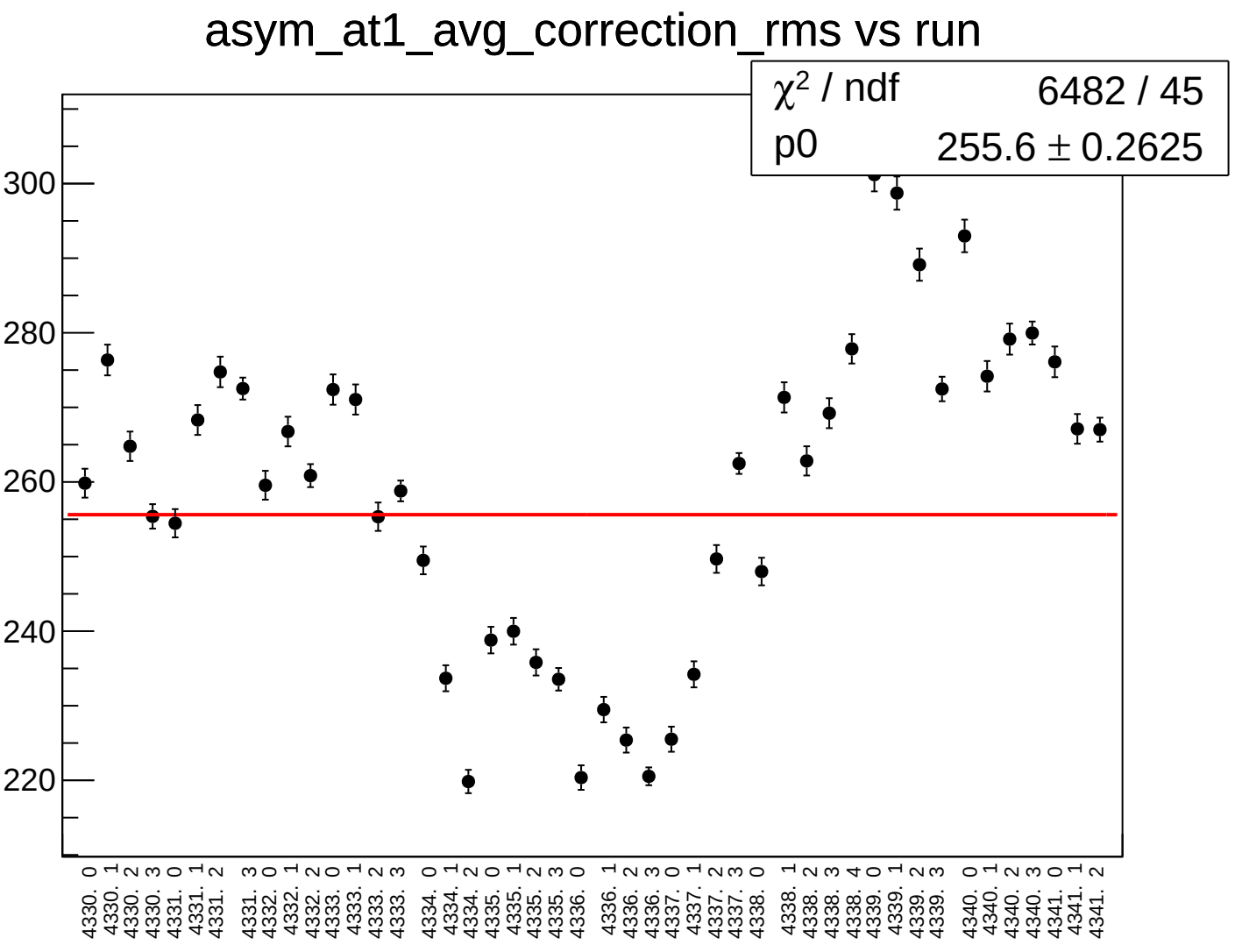

pull1D
Entries 46
Mean 0.01087
Std Dev 1.02

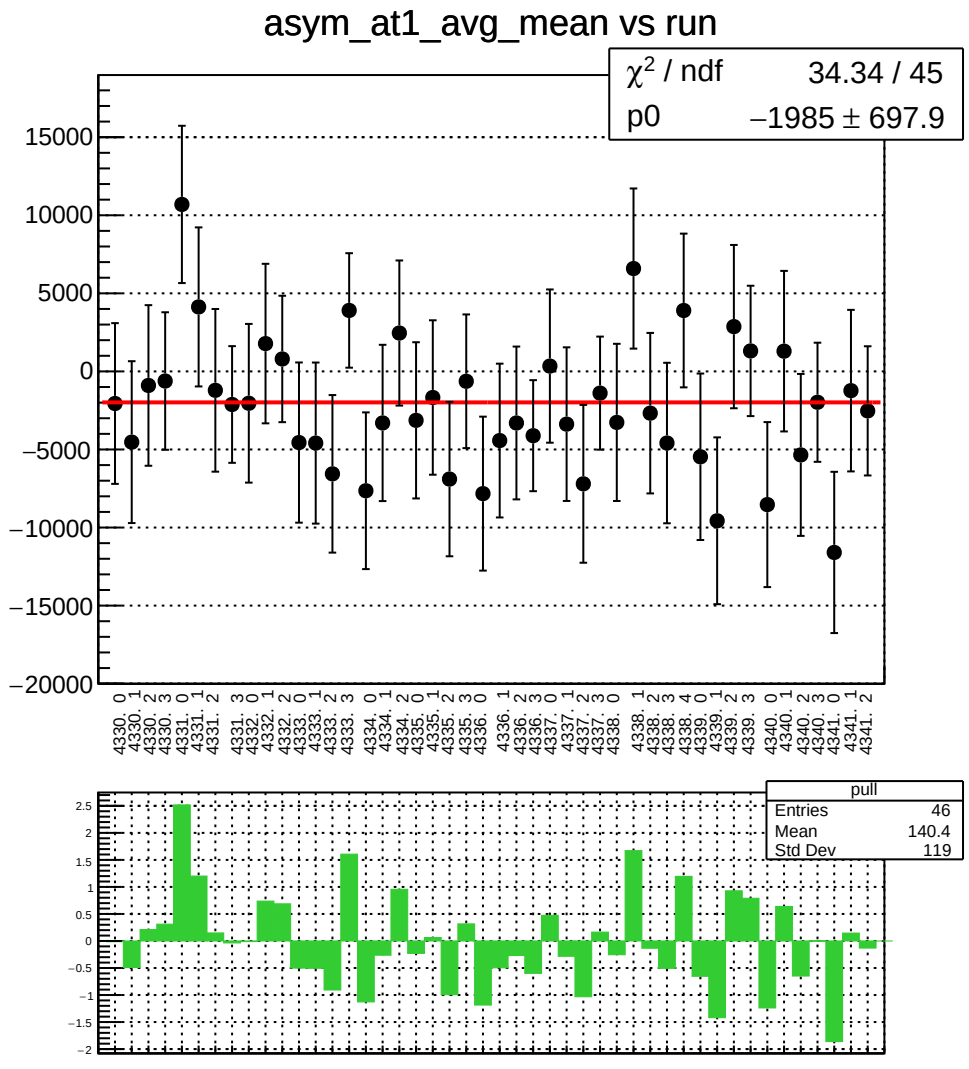

asym_atr_dd_rms vs run
χ² / ndf 419.2 / 45
p0 826.2 ± 0.8458
900
880
860
840
820
800
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

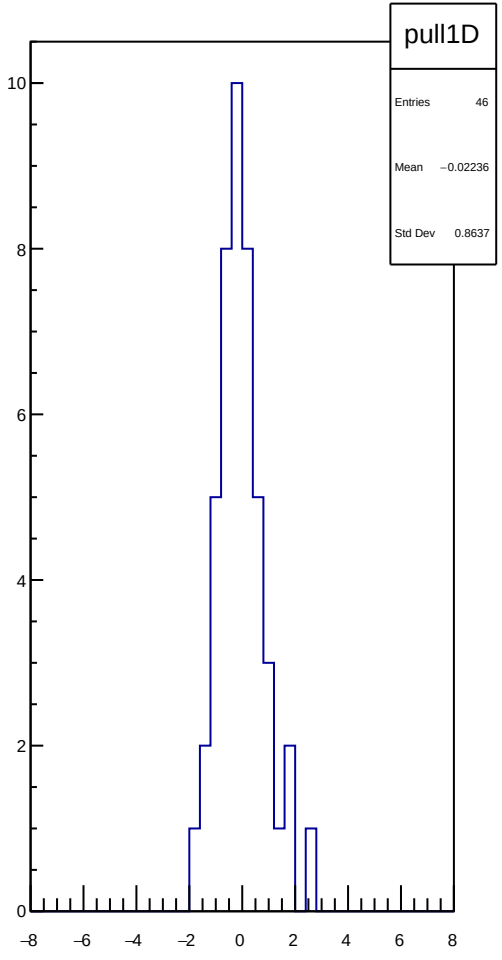

reg_asym_at1_avg_mean vs run
χ² / ndf 25.72 / 45
p0 −1580 ± 588.6
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 88.51
Std Dev 68.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.0203
Std Dev 0.7474
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

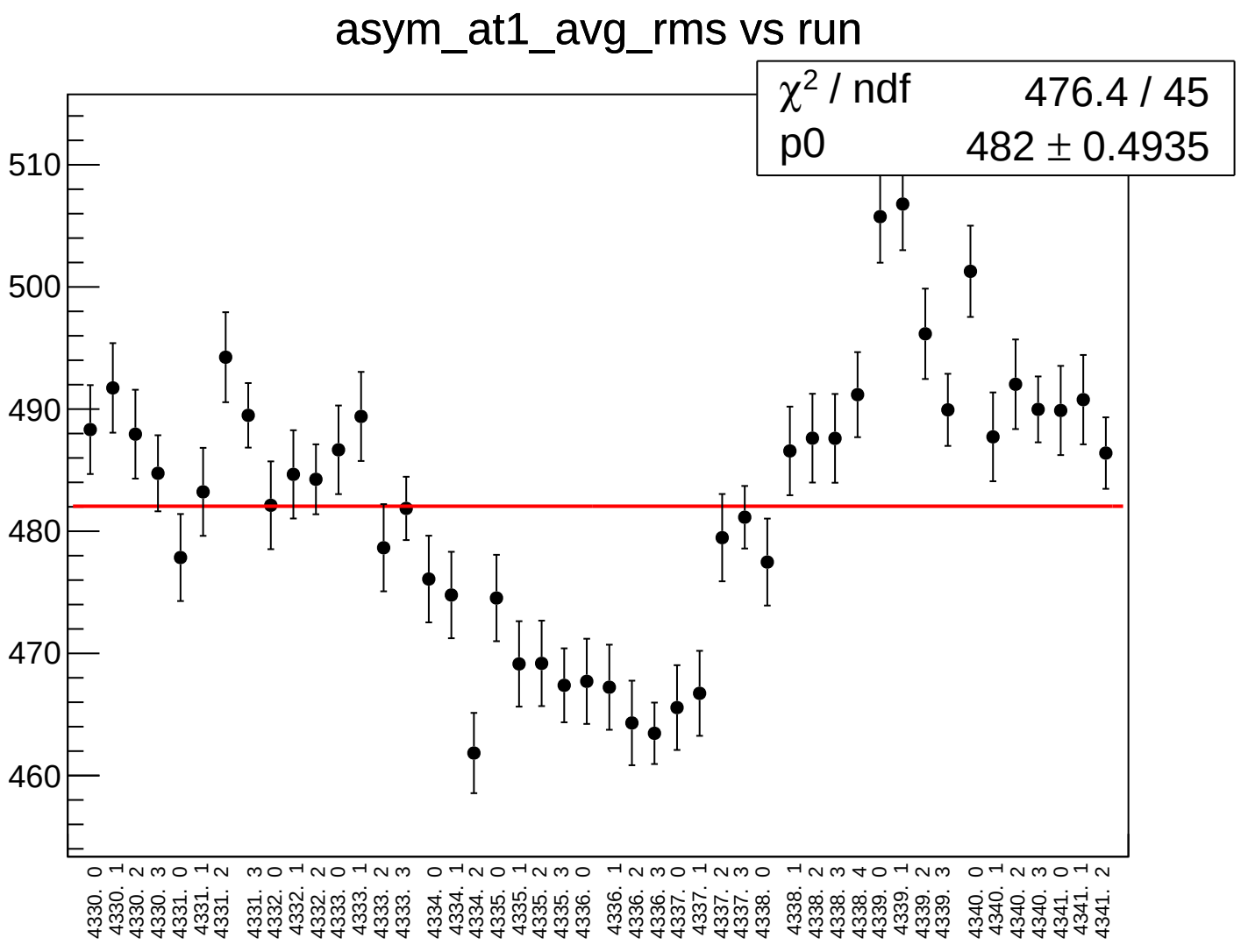

reg_asym_at1_avg_rms vs run
χ² / ndf 47.82 / 45
p0 406.7 ± 0.4162
418
416
414
412
410
408
406
404
402
400
398
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

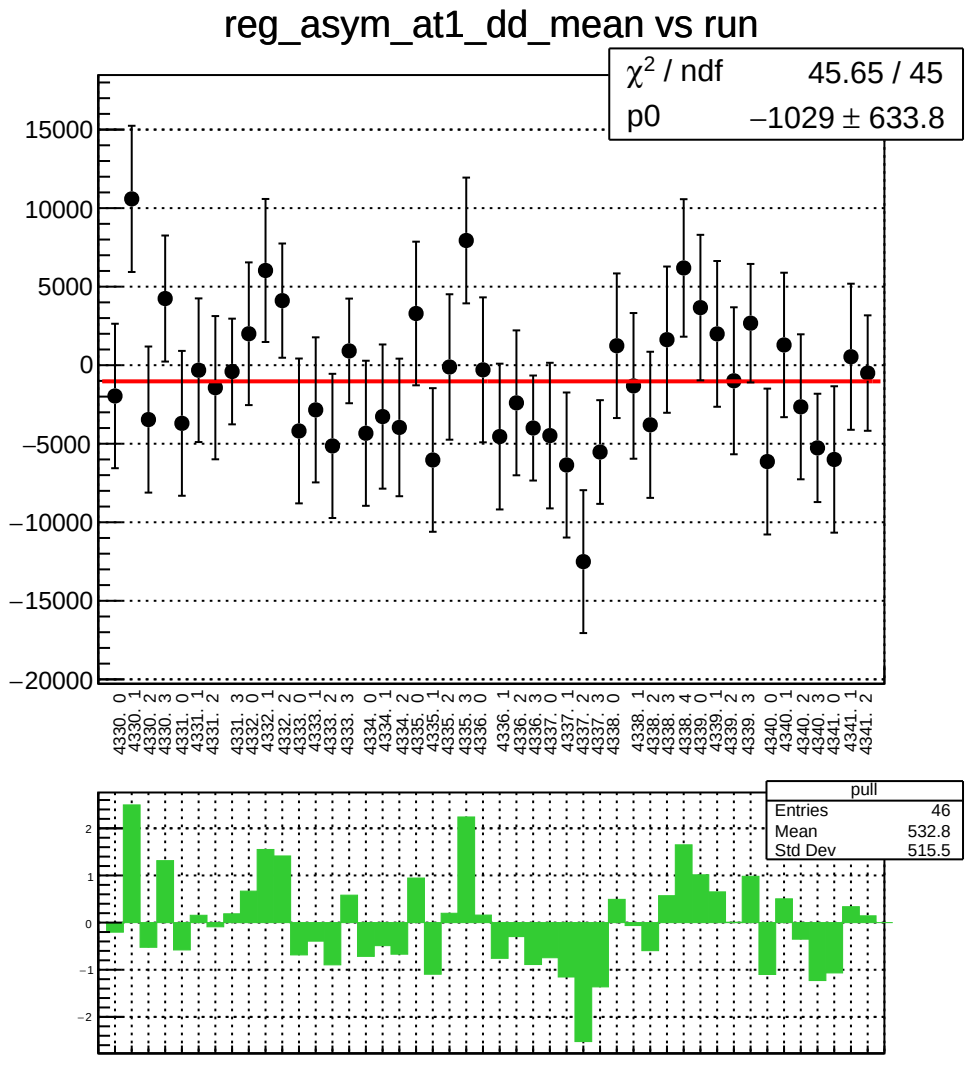

asym_at1_avg_correction_mean vs run
χ² / ndf 42.88 / 45
p0 411.7 ± 371.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 413.2
Std Dev 391
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.006899
Std Dev 0.9655
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

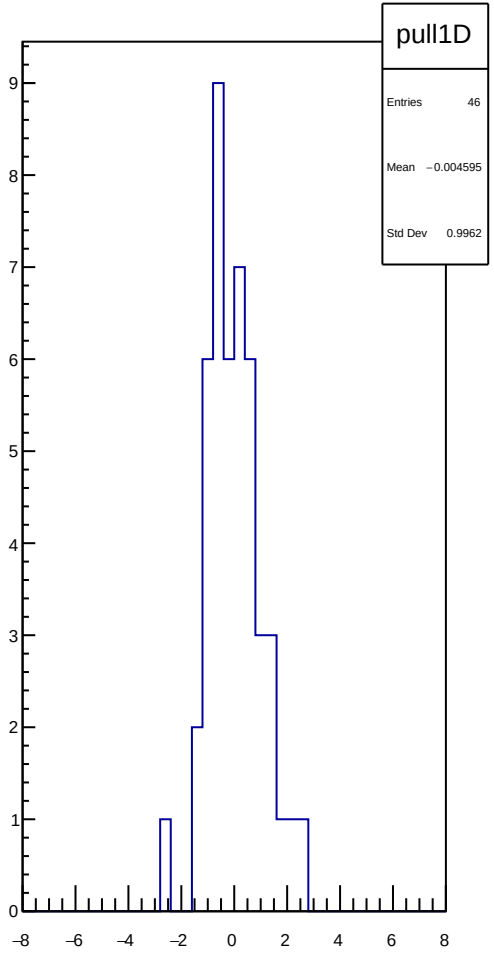

asym_at1_avg_correction_rms vs run
χ² / ndf 6482 / 45
p0 255.6 ± 0.2625
300
280
260
240
220
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

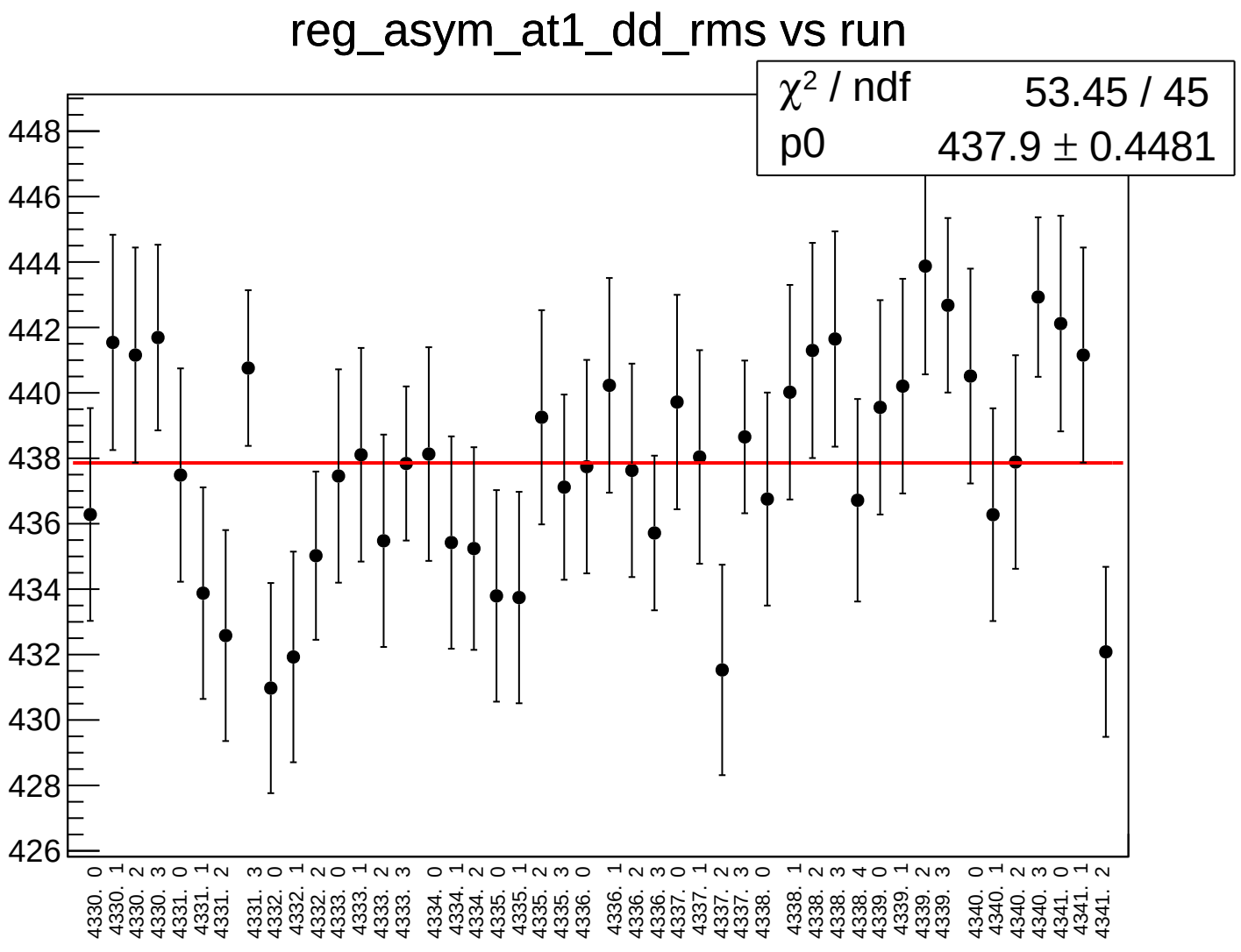

asym_at1_avg_mean vs run
χ² / ndf 34.34 / 45
p0 −1985 ± 697.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 140.4
Std Dev 119
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

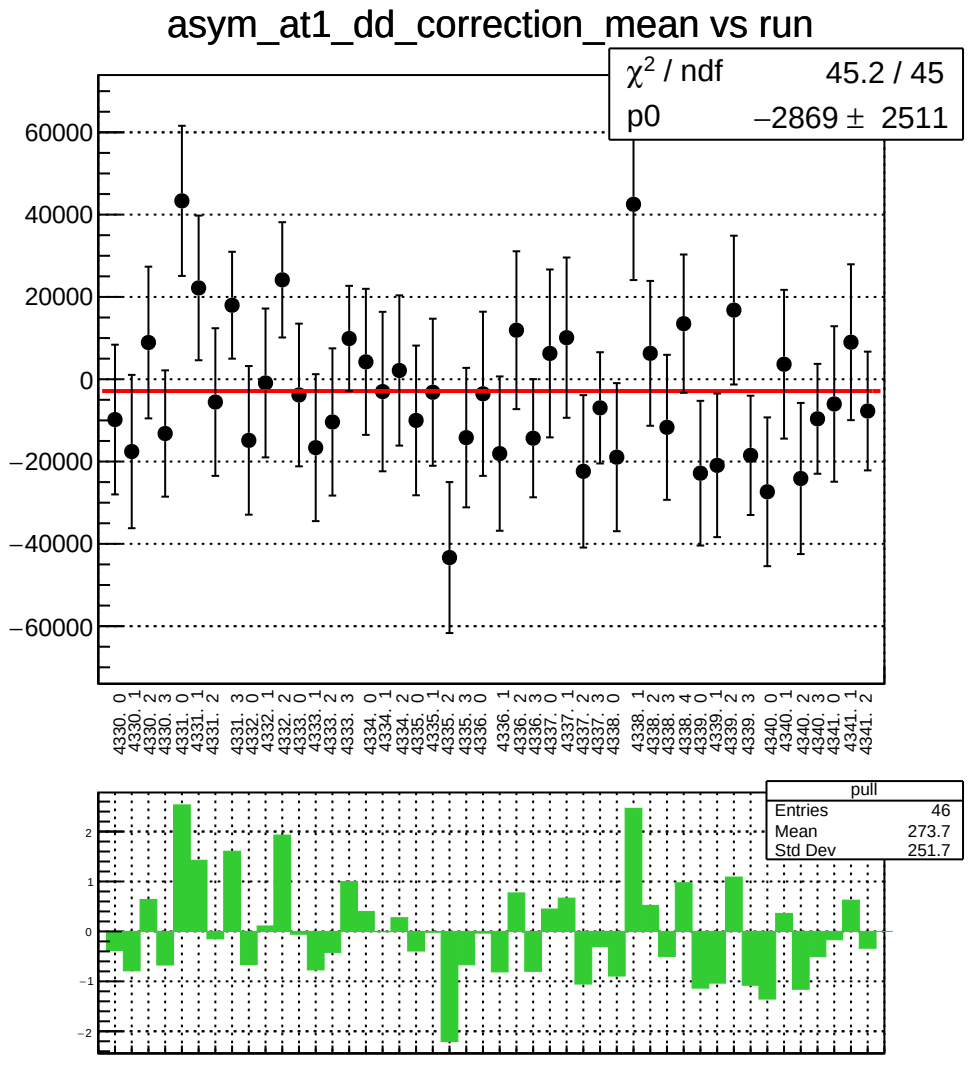

pull1D
Entries 46
Mean −0.02236
Std Dev 0.8637
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

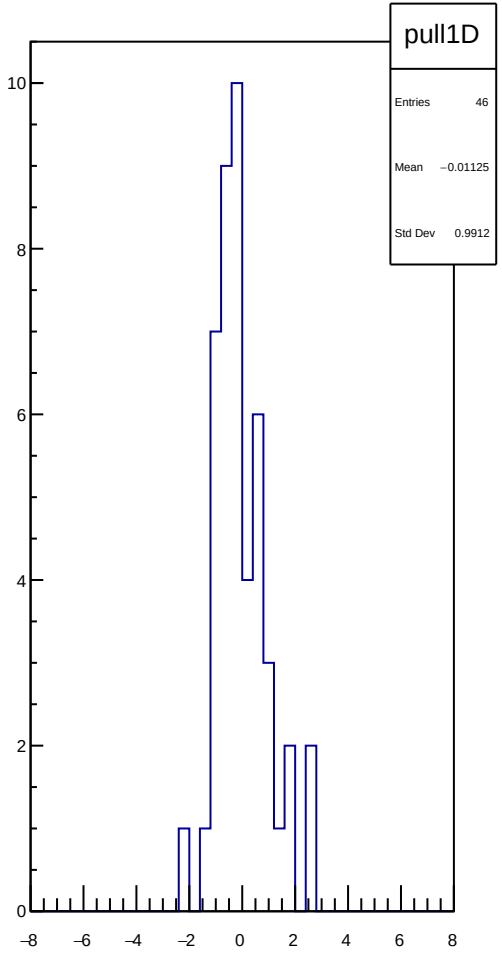

asym_at1_avg_rms vs run
χ² / ndf 476.4 / 45
p0 482 ± 0.4935
510
500
490
480
470
460
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

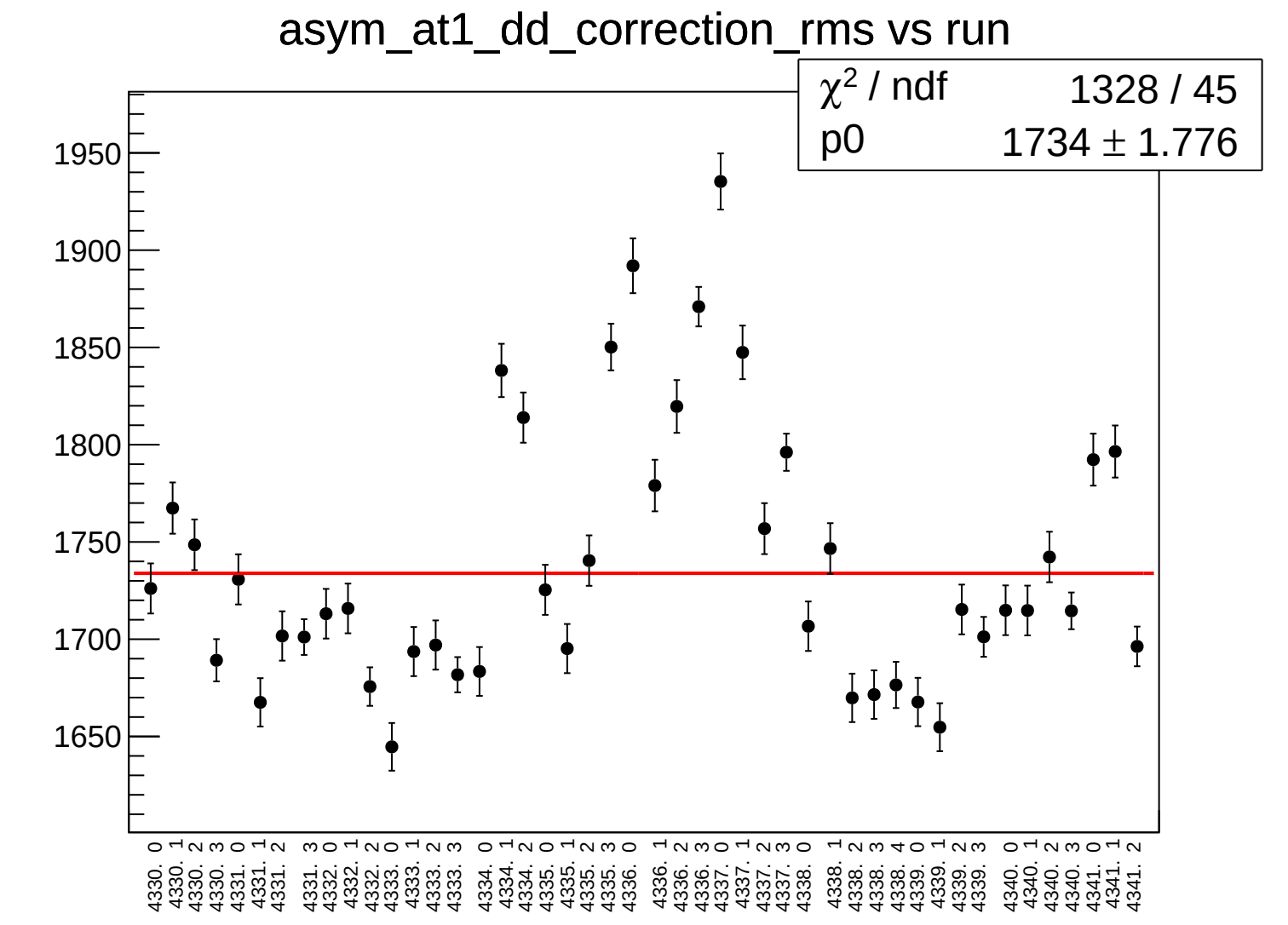

reg_asym_at1_dd_mean vs run
χ² / ndf 45.65 / 45
p0 −1029 ± 633.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 532.8
Std Dev 515.5
2
1
0
−1
−2

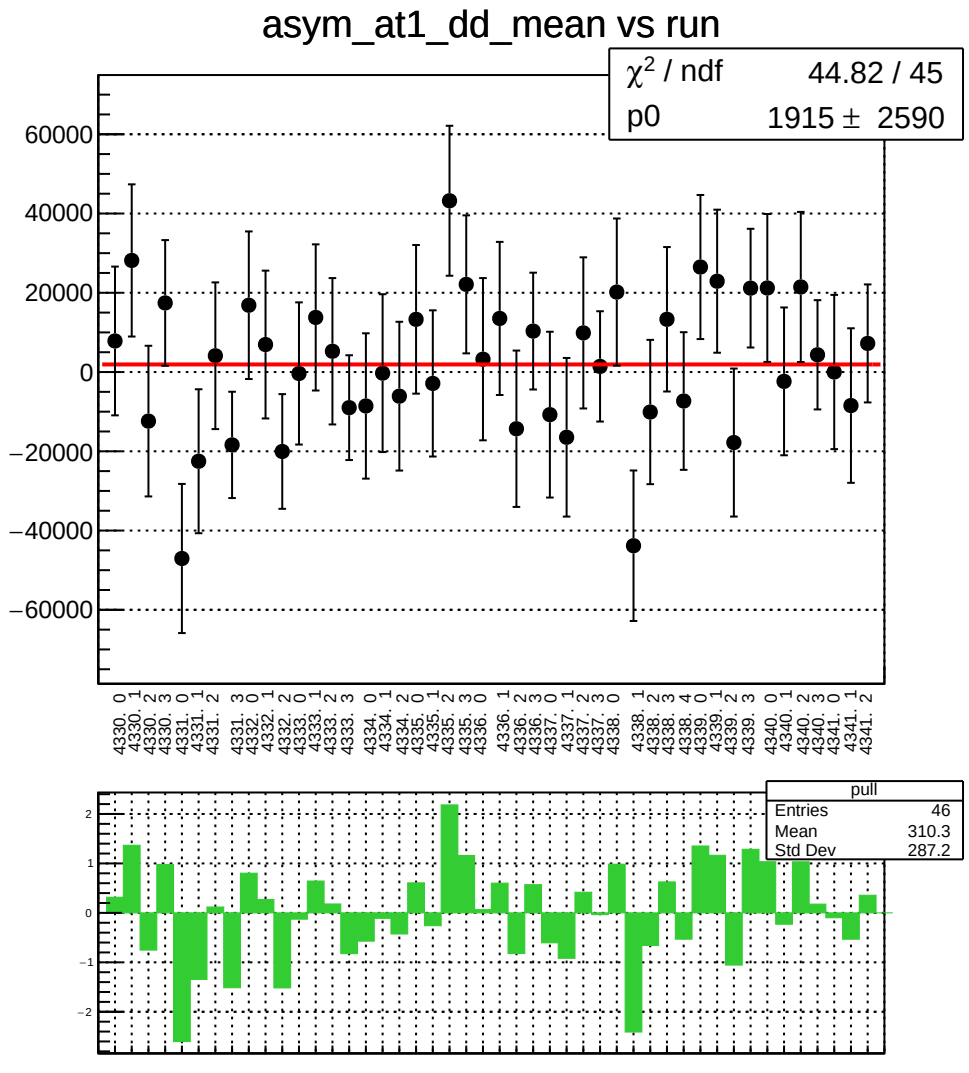

pull1D
Entries 46
Mean −0.004595
Std Dev 0.9962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

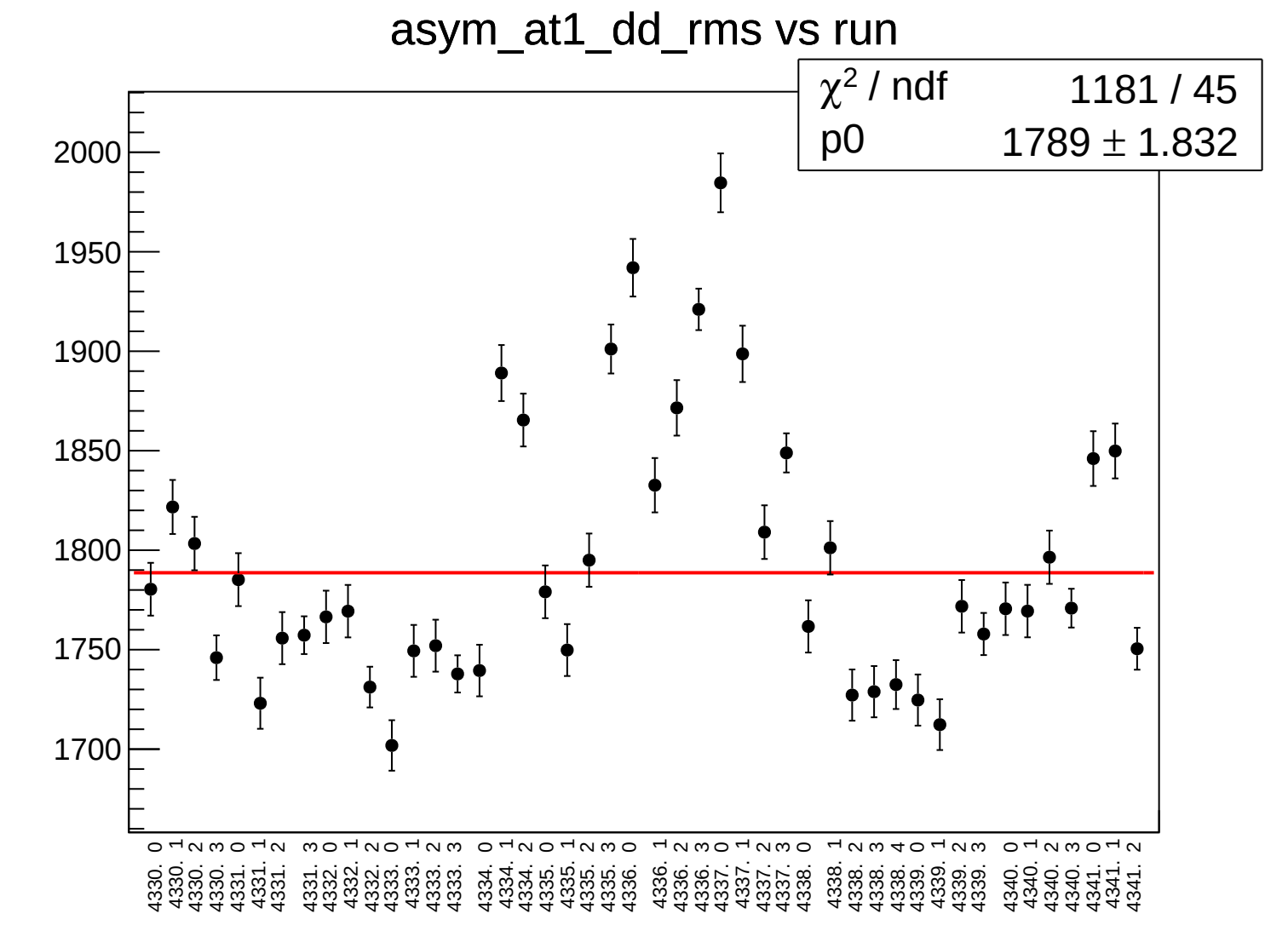

reg_asym_at1_dd_rms vs run
χ² / ndf 53.45 / 45
p0 437.9 ± 0.4481
448
446
444
442
440
438
436
434
432
430
428
426
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

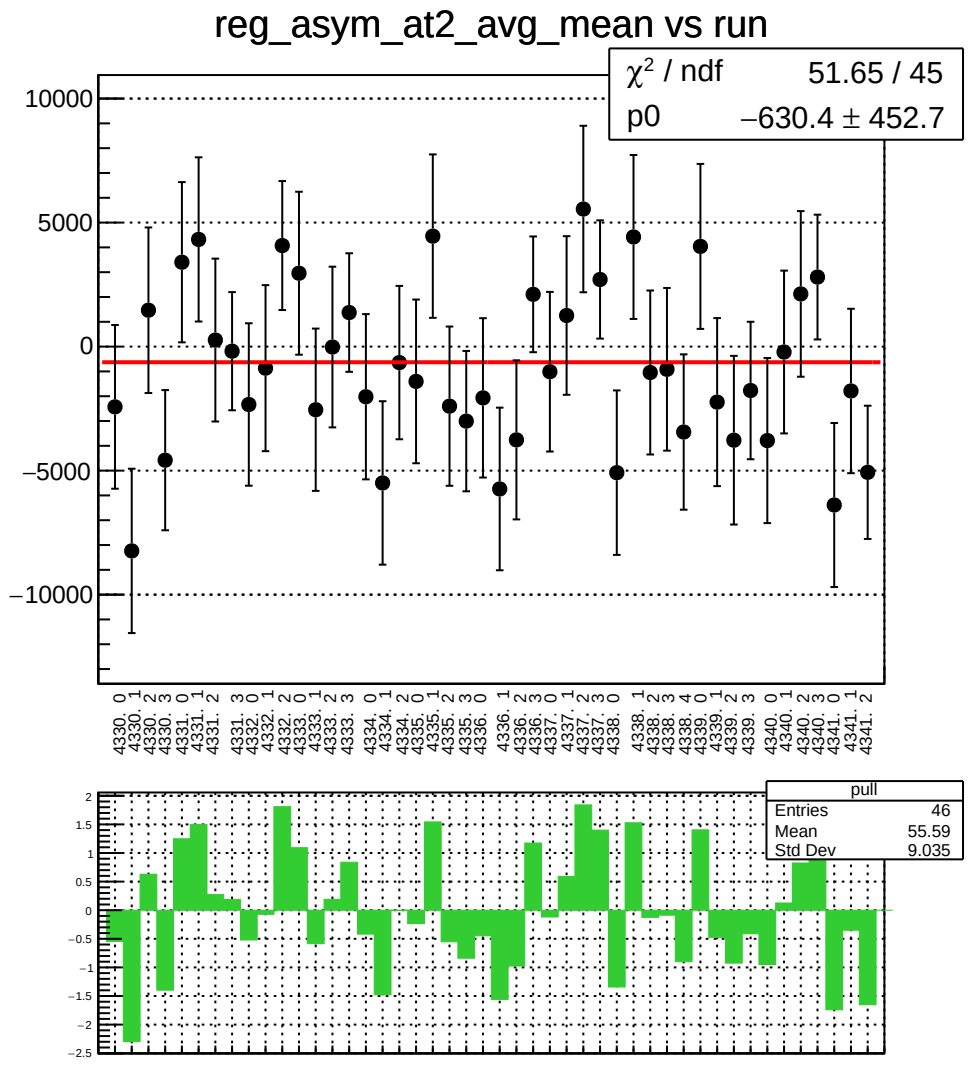

asym_at1_dd_correction_mean vs run
χ² / ndf 45.2 / 45
p0 −2869 ± 2511
60000
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 273.7
Std Dev 251.7
2
1
0
−1
−2

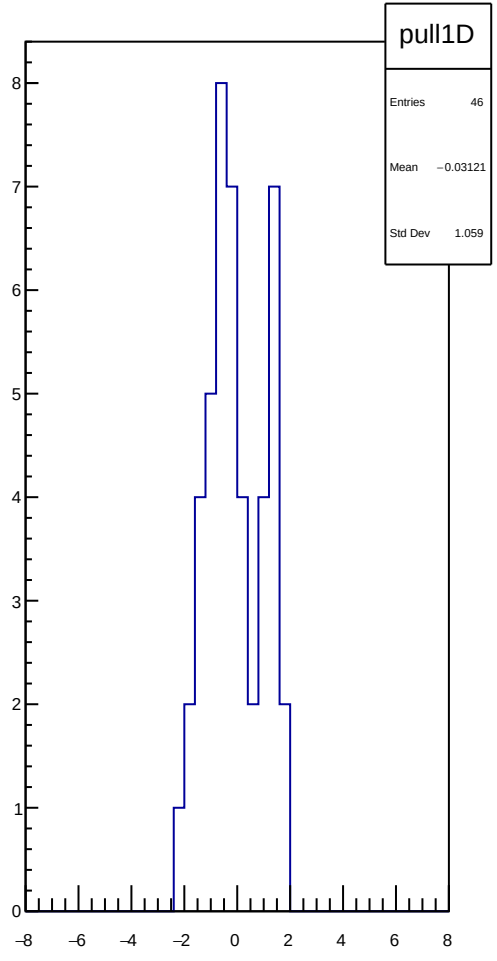

pull1D
Entries 46
Mean −0.01125
Std Dev 0.9912
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

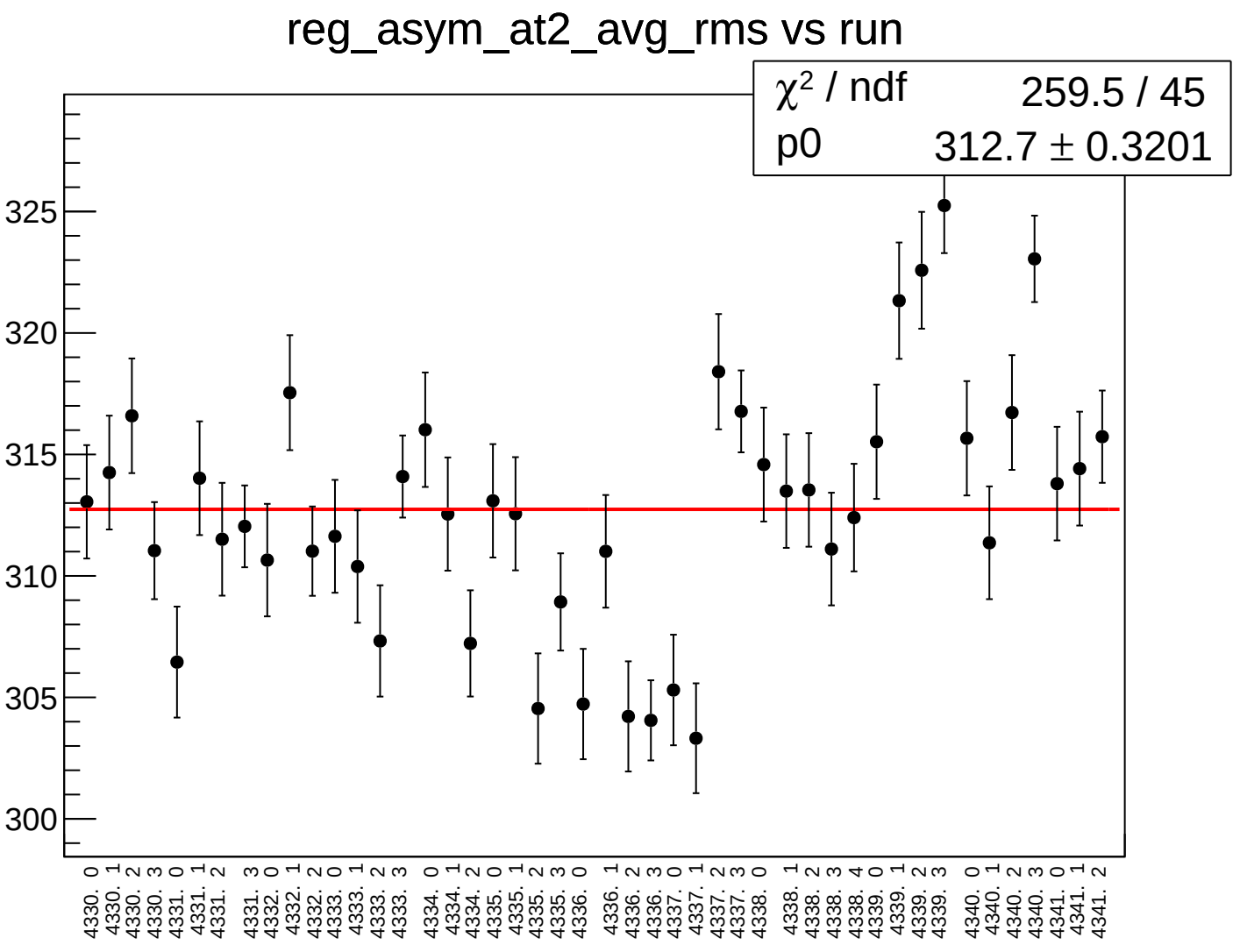

asym_at1_dd_correction_rms vs run
χ² / ndf 1328 / 45
p0 1734 ± 1.776
1950
1900
1850
1800
1750
1700
1650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

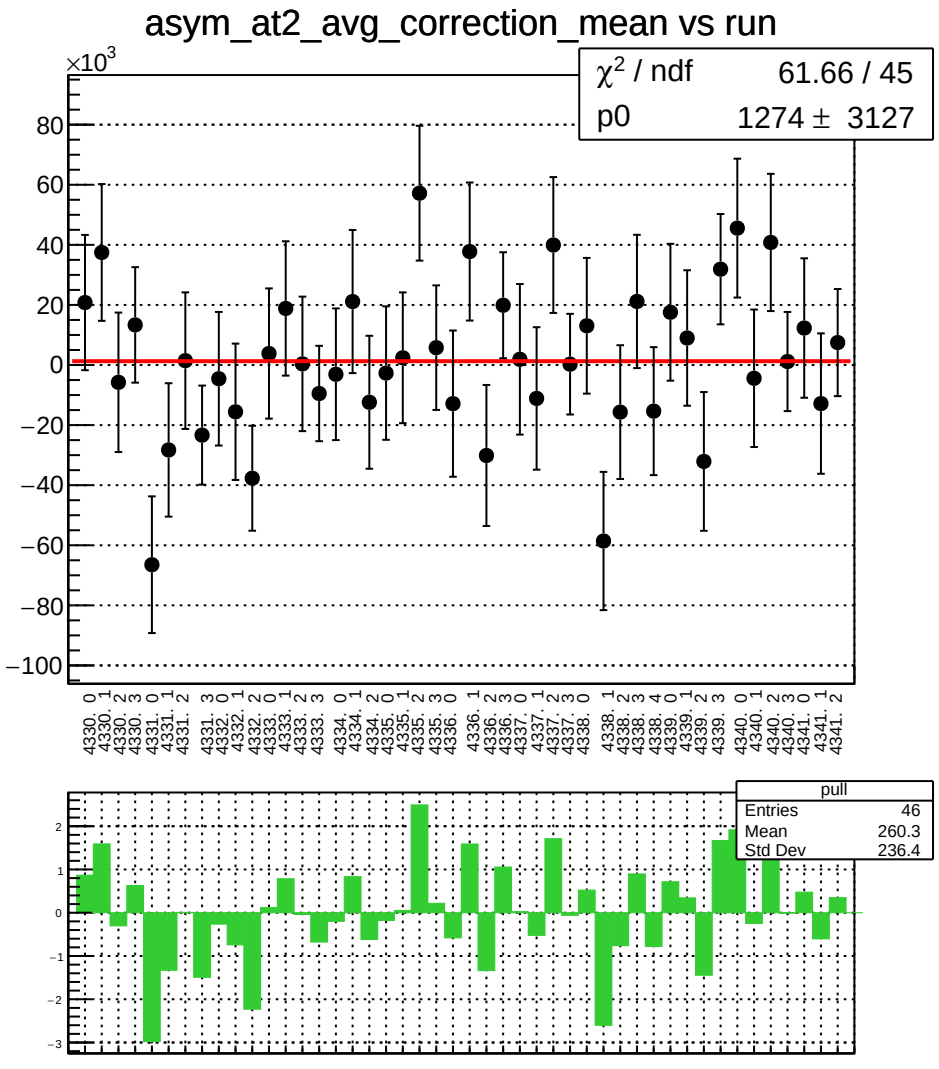

asym_at1_dd_mean vs run
χ² / ndf 44.82 / 45
p0 1915 ± 2590
60000
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 310.3
Std Dev 287.2
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.007552
Std Dev 0.9871
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

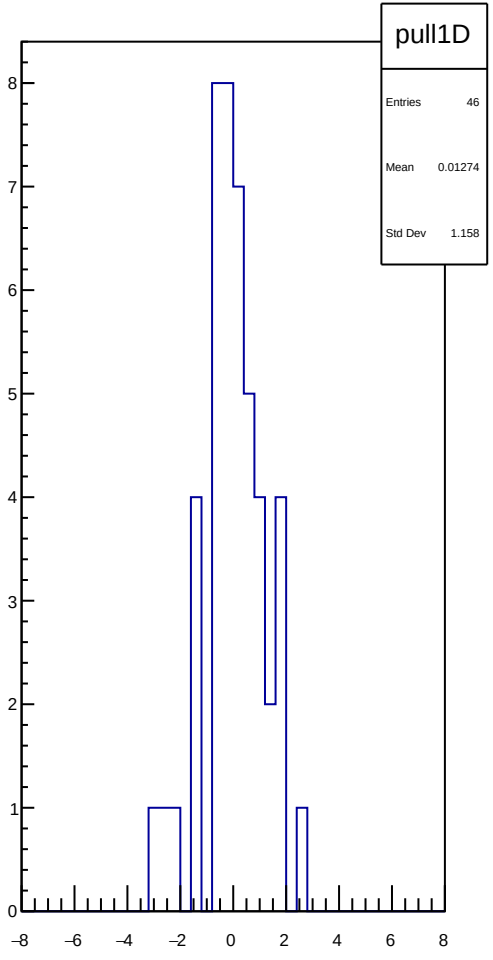

asym_at1_dd_rms vs run
χ² / ndf 1181 / 45
p0 1789 ± 1.832
2000
1950
1900
1850
1800
1750
1700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

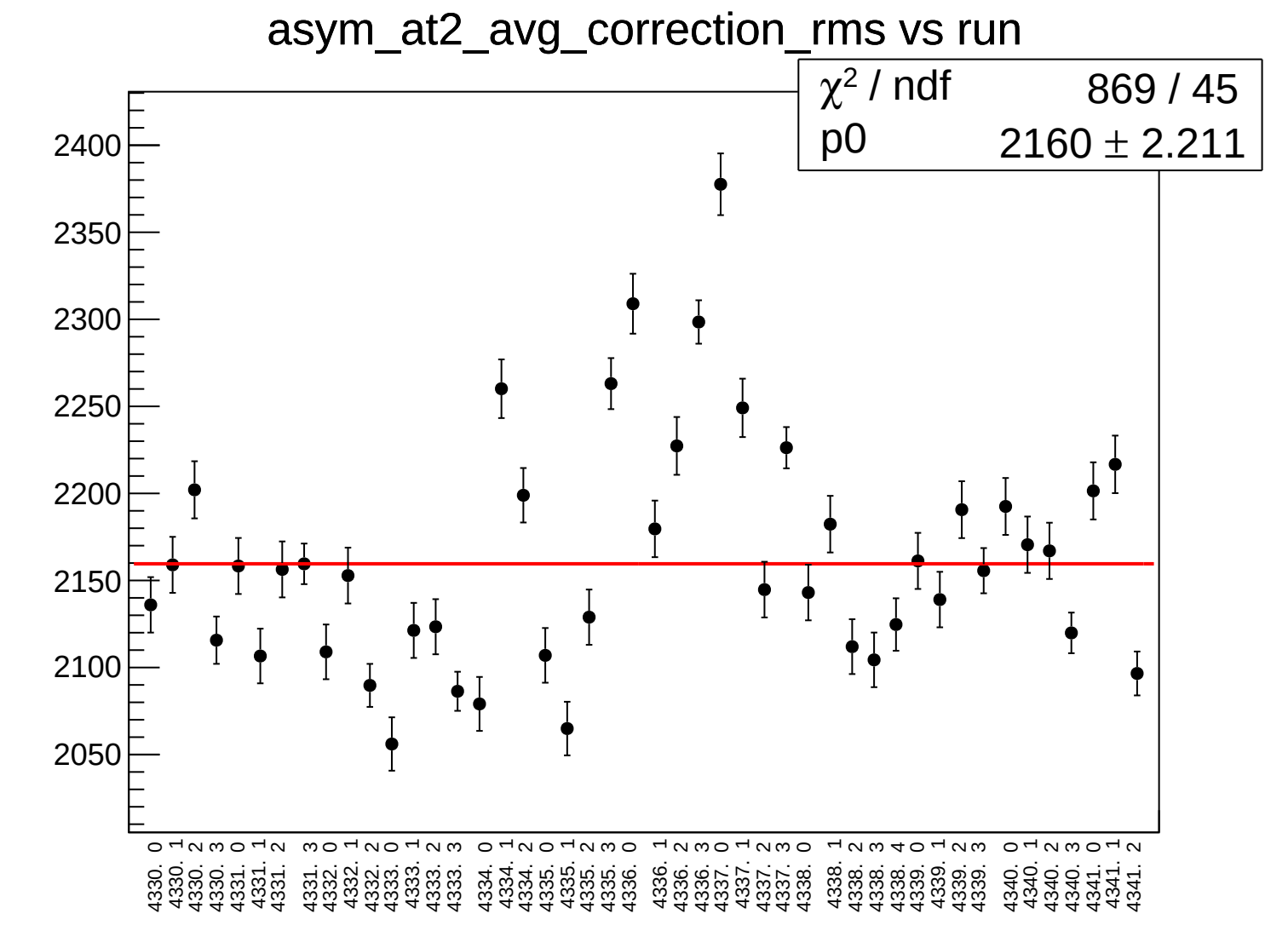

reg_asym_at2_avg_mean vs run
χ² / ndf 51.65 / 45
p0 −630.4 ± 452.7
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 55.59
Std Dev 9.035
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

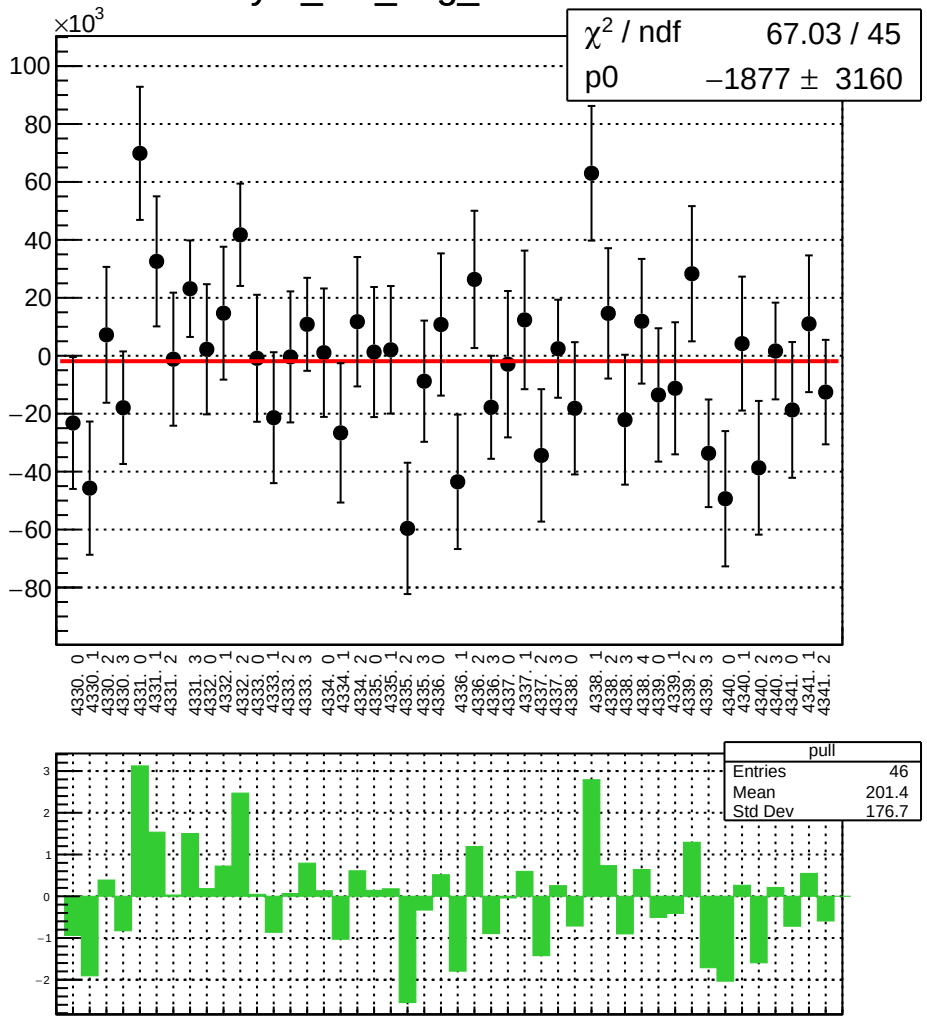

pull1D
Entries 46
Mean −0.03121
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

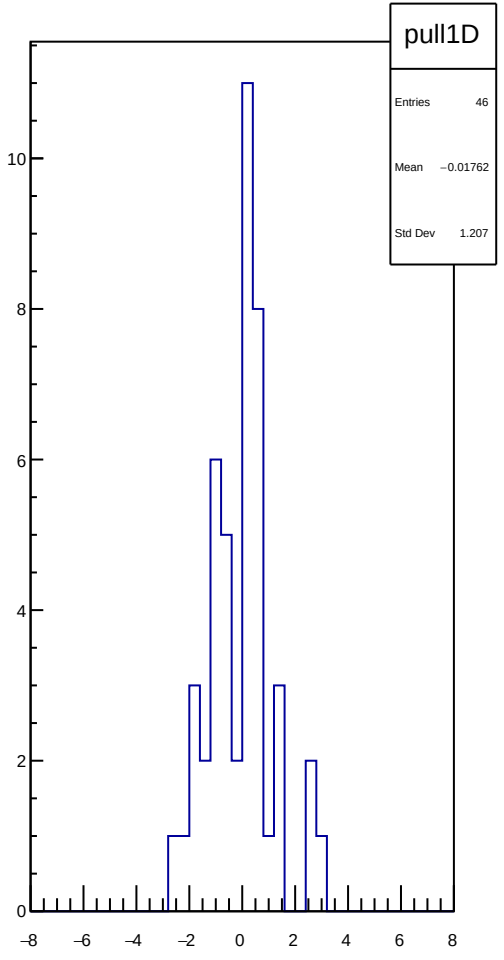

reg_asym_at2_avg_rms vs run
χ² / ndf 259.5 / 45
p0 312.7 ± 0.3201
325
320
315
310
305
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

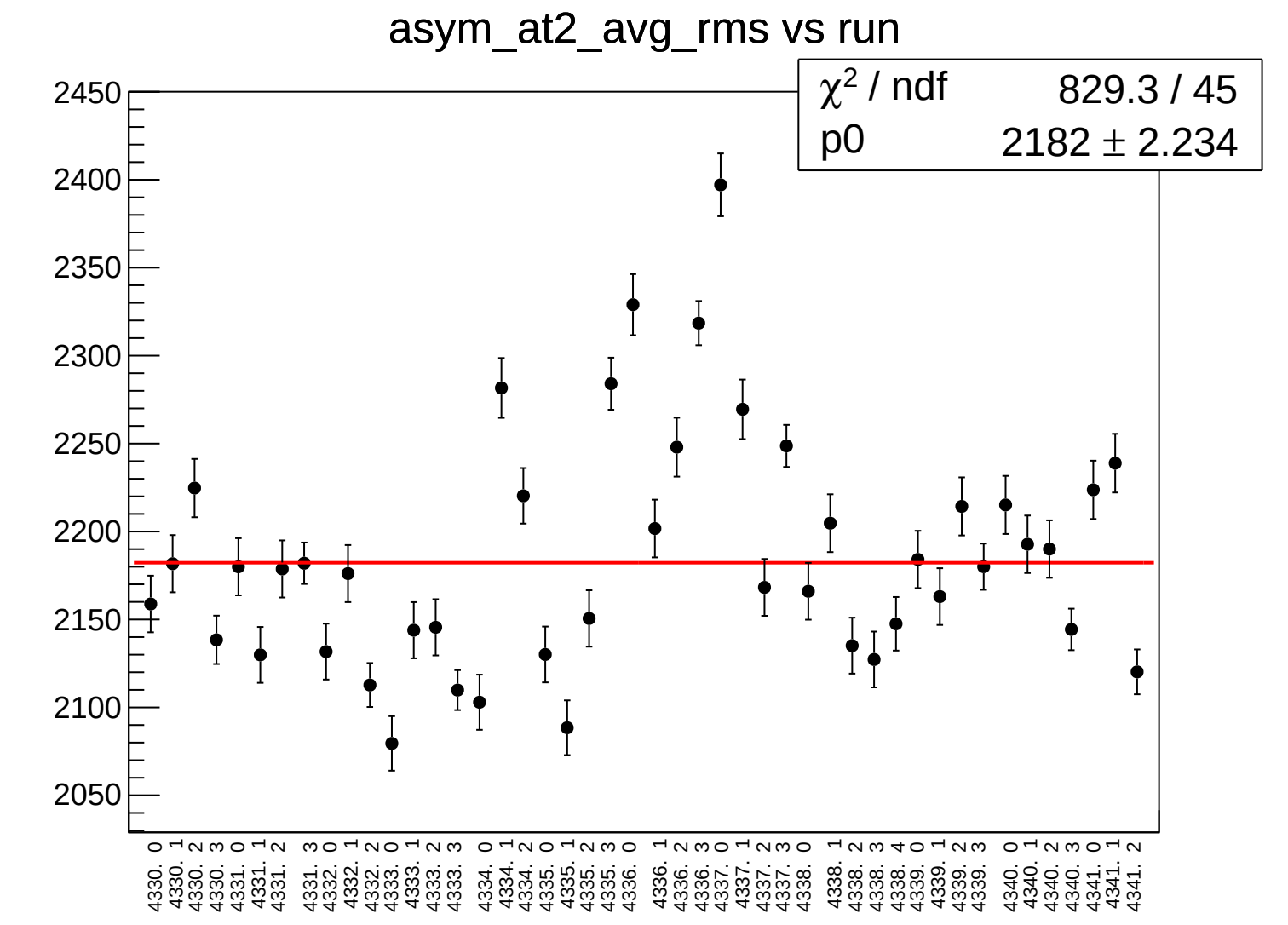

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 61.66 / 45
p0 1274 ± 3127
80
60
40
20
0
−20
−40
−60
−80
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 260.3
Std Dev 236.4
2
1
0
−1
−2
−3

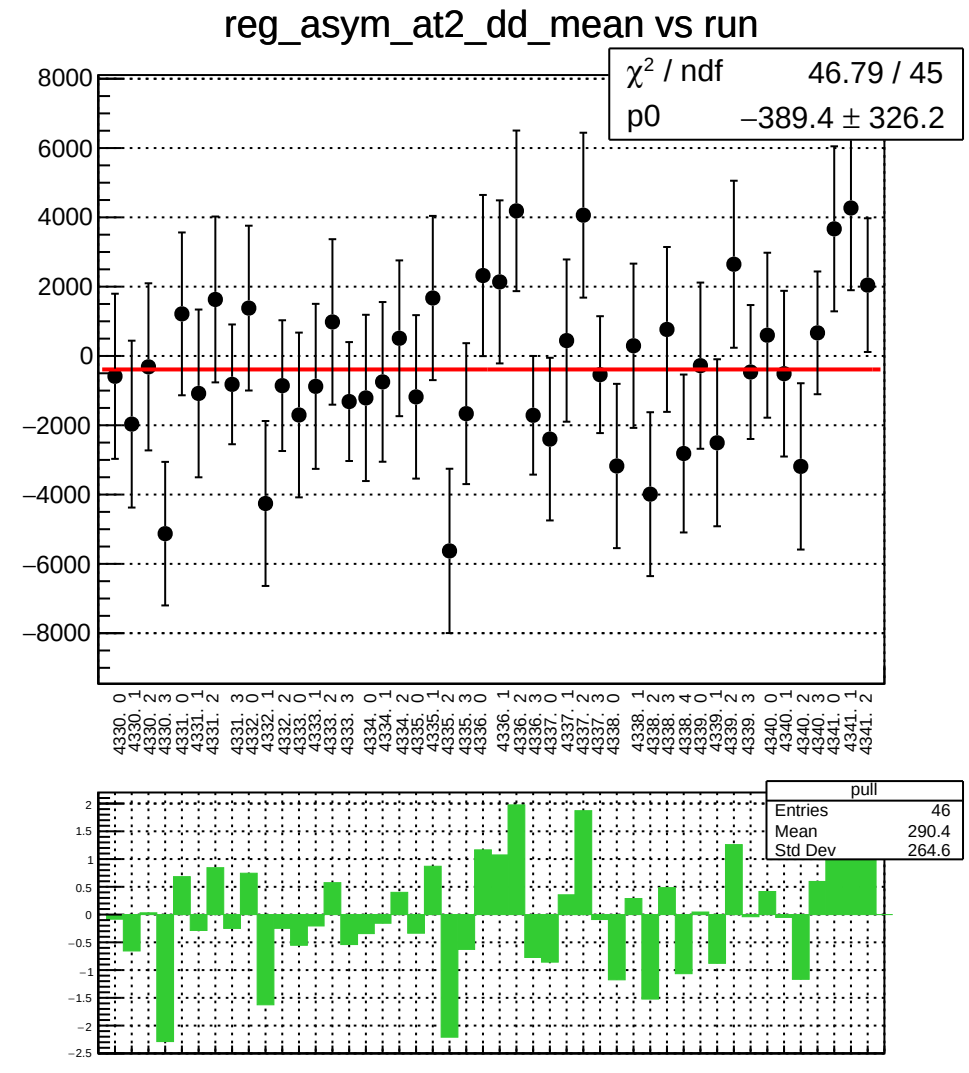

pull1D
Entries 46
Mean 0.01274
Std Dev 1.158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

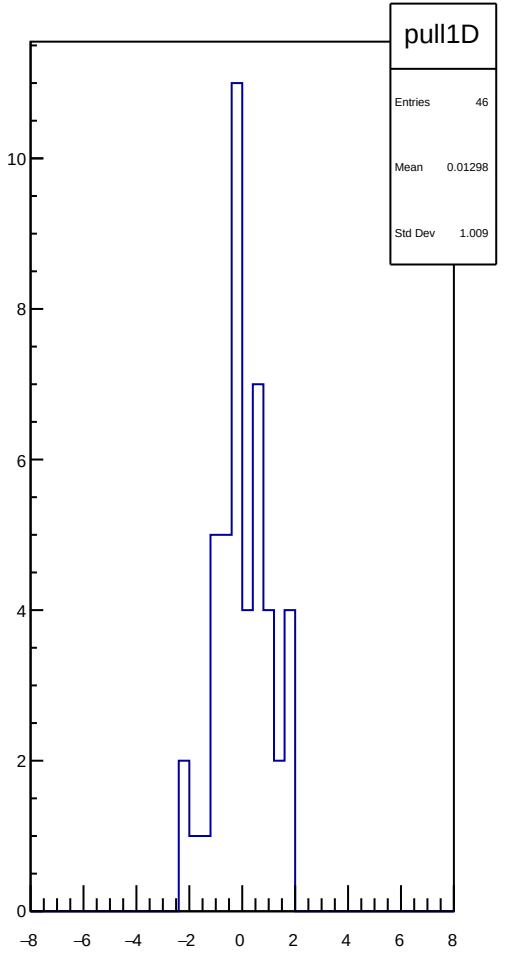

asym_at2_avg_correction_rms vs run
χ² / ndf 869 / 45
p0 2160 ± 2.211
2400
2350
2300
2250
2200
2150
2100
2050
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

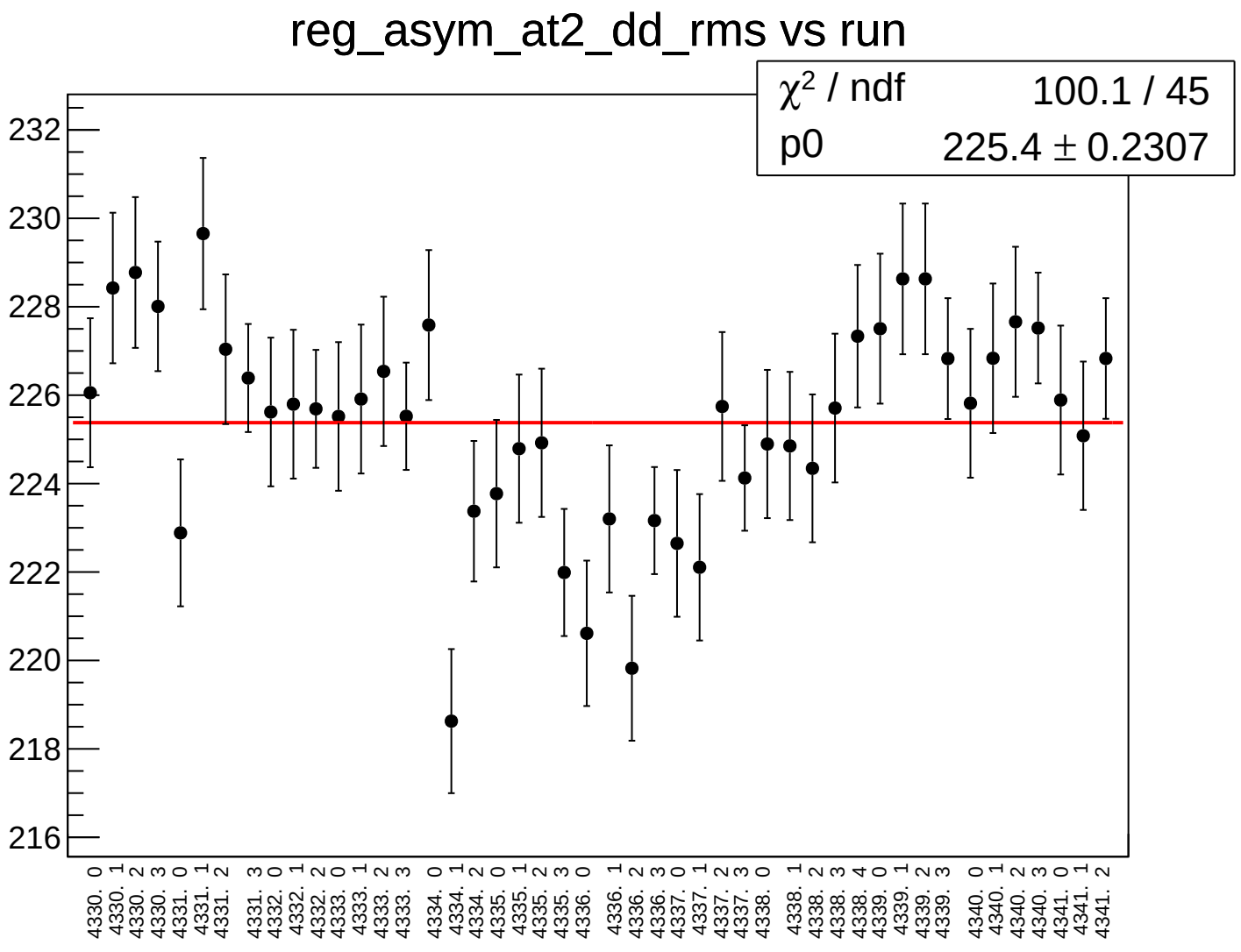

asym_at2_avg_mean vs run
×10^3
χ² / ndf 67.03 / 45
p0 −1877 ± 3160
pull
Entries 46
Mean 201.4
Std Dev 176.7

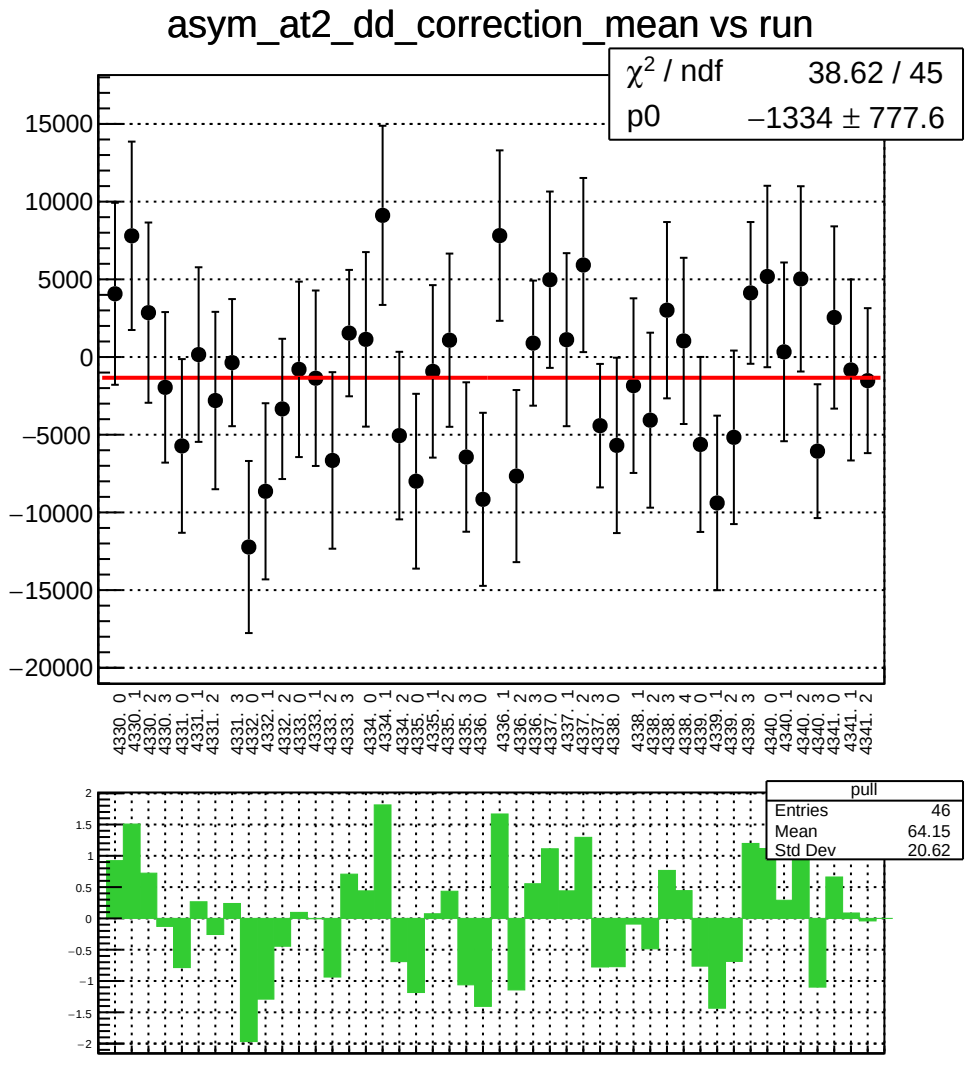

pull1D
Entries 46
Mean −0.01762
Std Dev 1.207

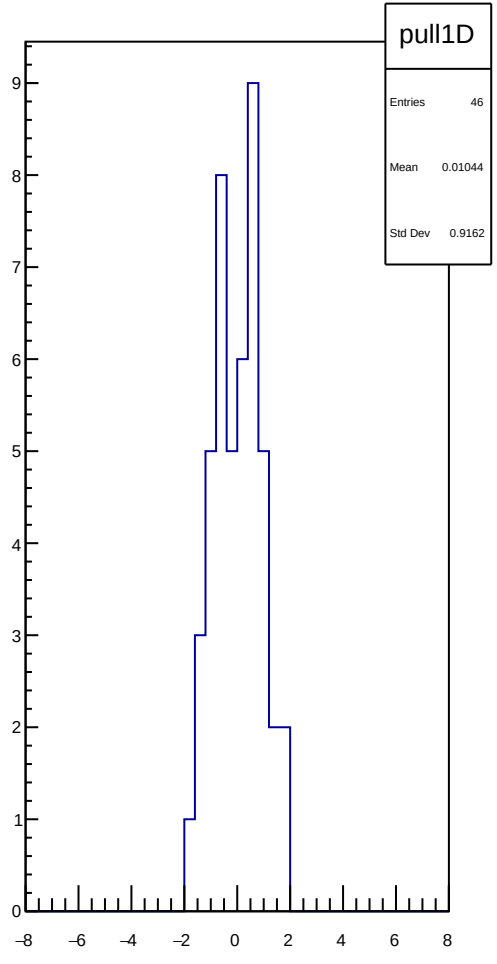

asym_at2_avg_rms vs run
χ² / ndf 829.3 / 45
p0 2182 ± 2.234
2450
2400
2350
2300
2250
2200
2150
2100
2050
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

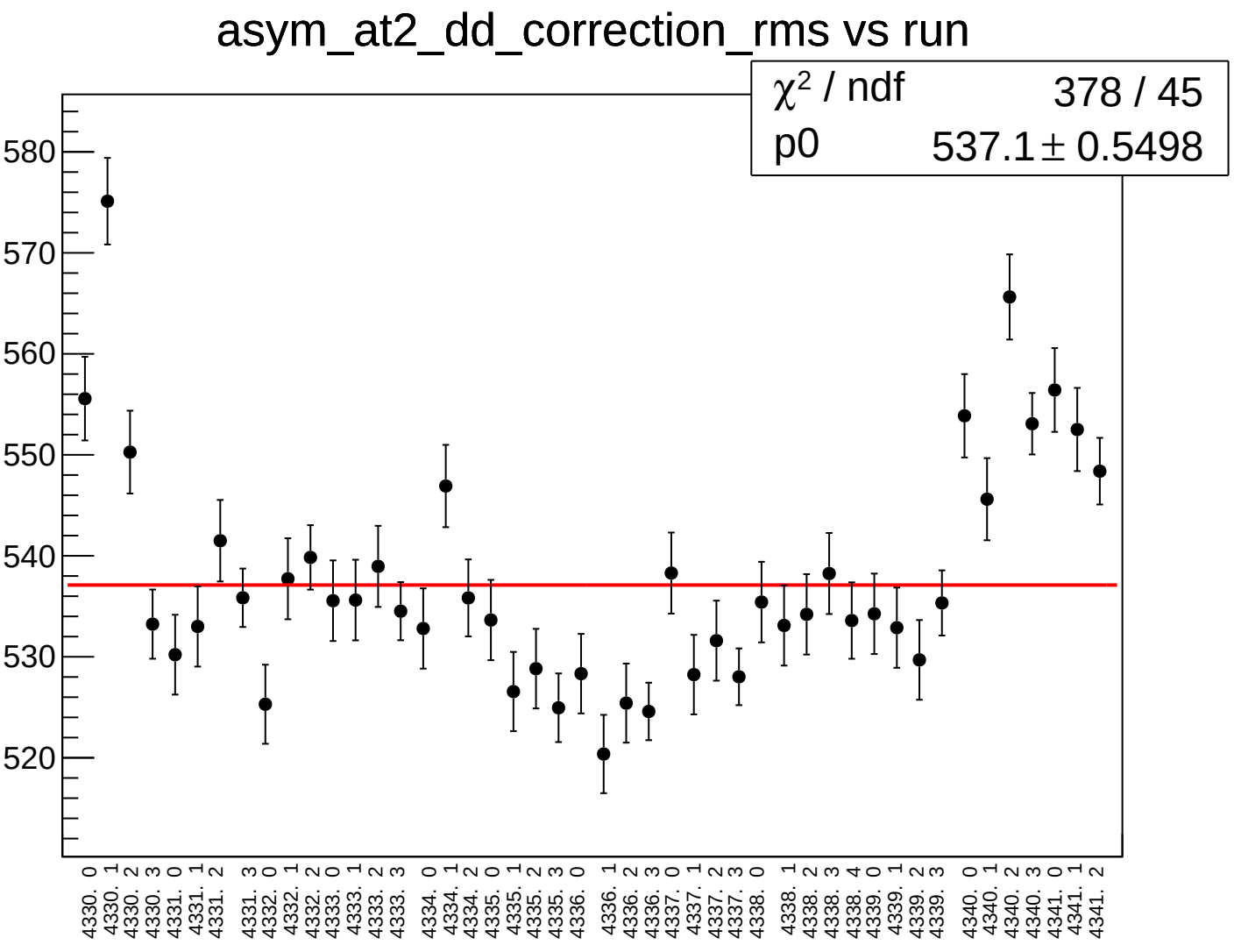

reg_asym_at2_dd_mean vs run
χ² / ndf 46.79 / 45
p0 −389.4 ± 326.2
pull
Entries 46
Mean 290.4
Std Dev 264.6

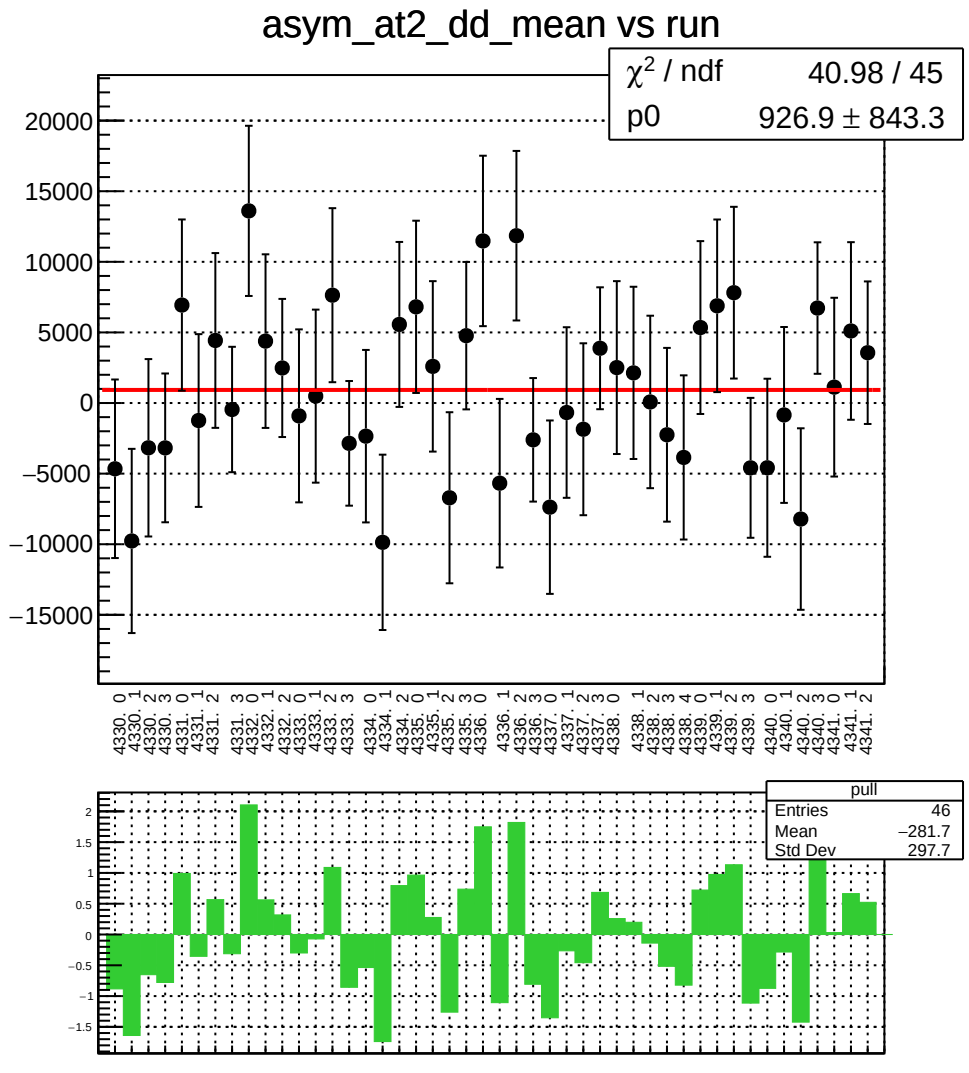

pull1D
Entries 46
Mean 0.01298
Std Dev 1.009

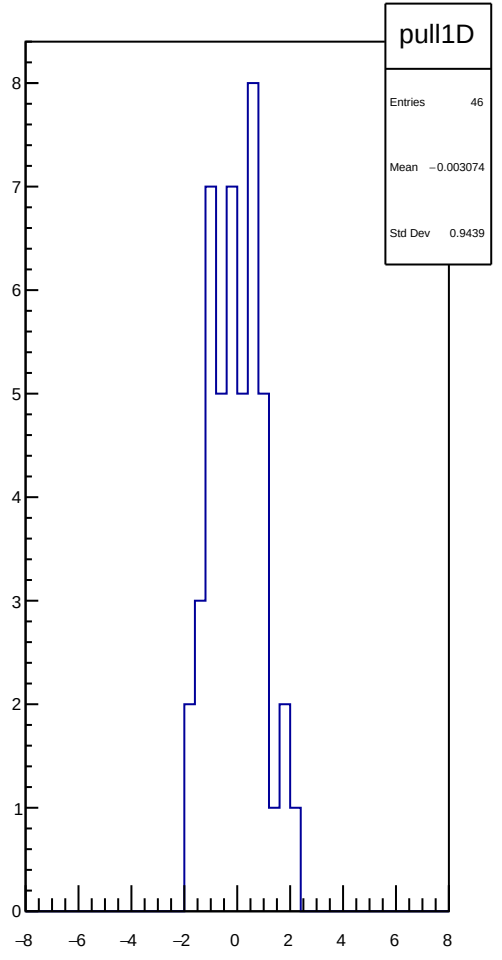

reg_asym_at2_dd_rms vs run
χ² / ndf 100.1 / 45
p0 225.4 ± 0.2307
232
230
228
226
224
222
220
218
216
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

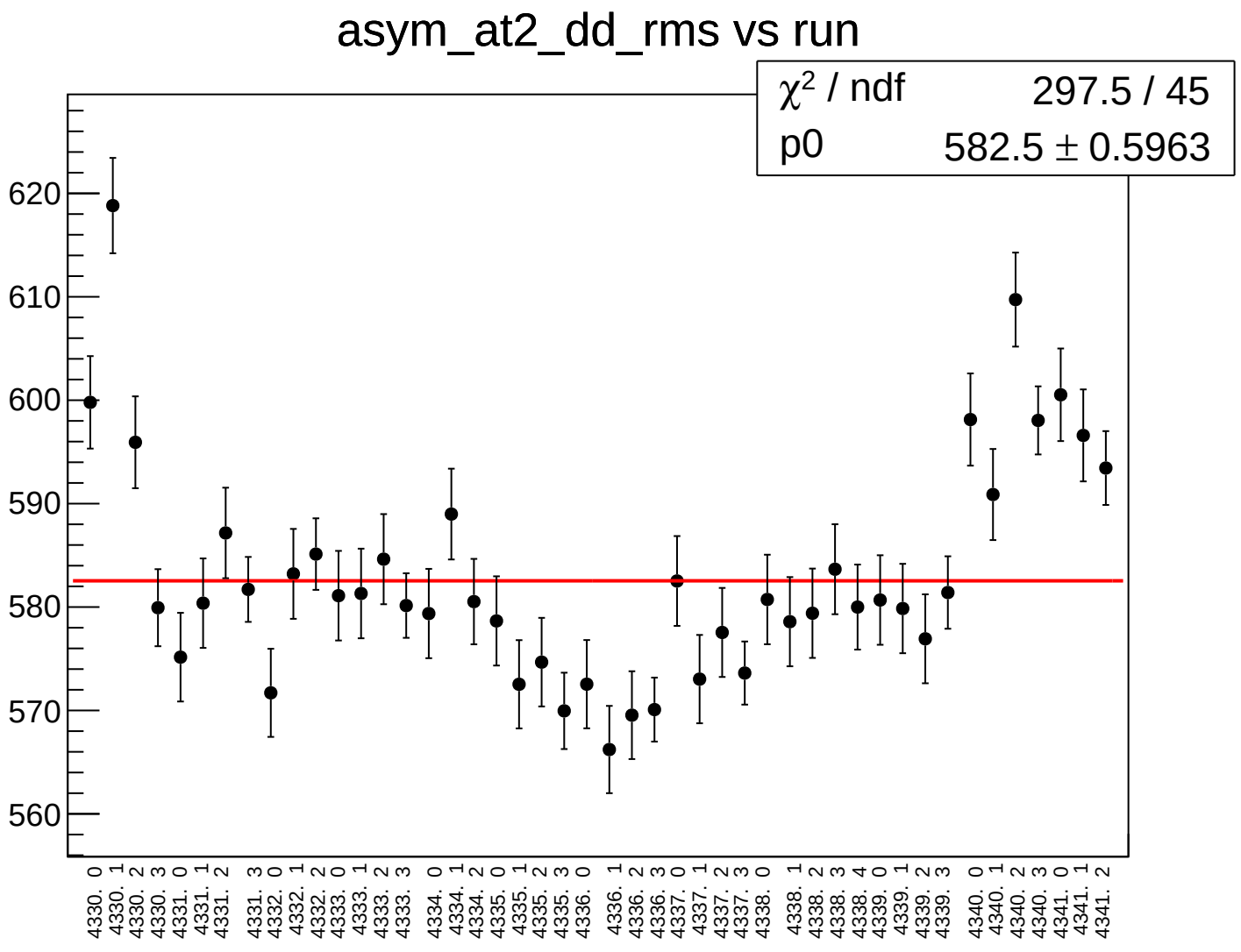

asym_at2_dd_correction_mean vs run
χ² / ndf 38.62 / 45
p0 −1334 ± 777.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 64.15
Std Dev 20.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

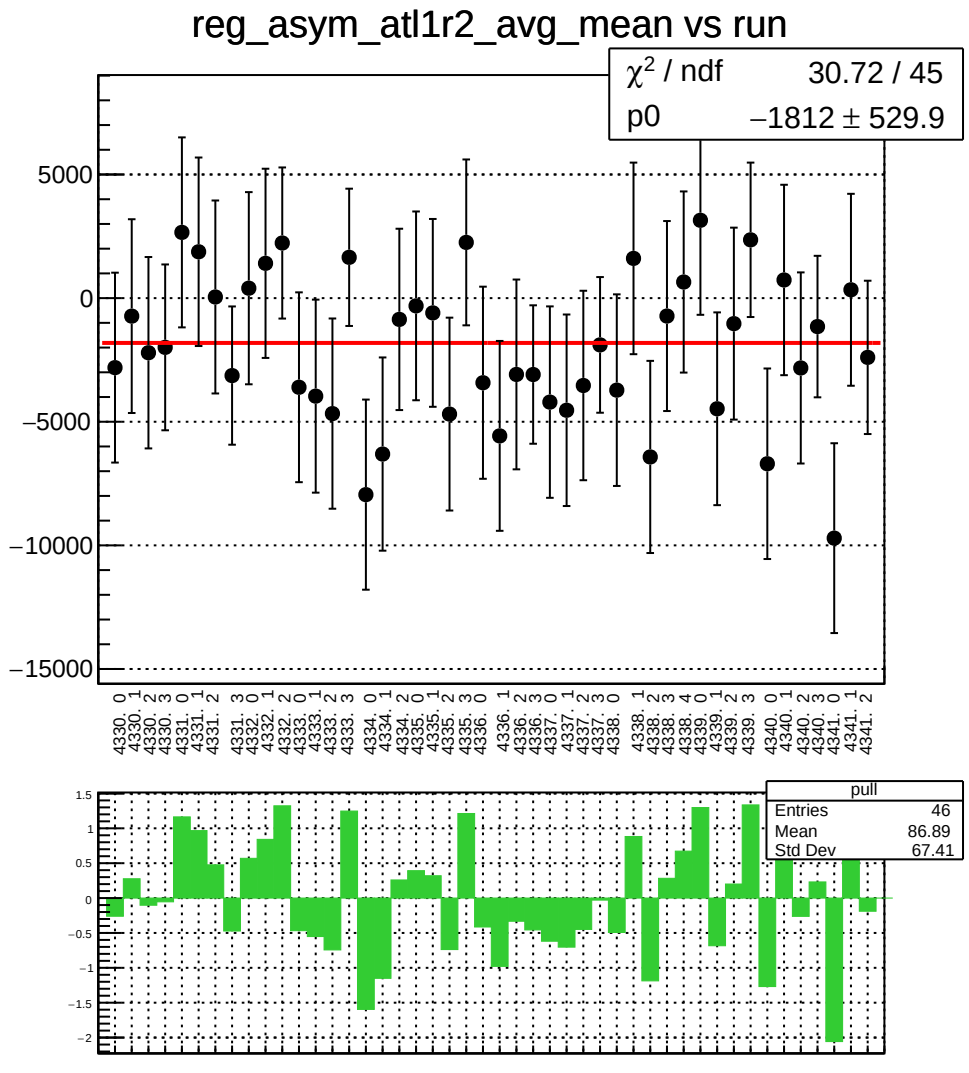

pull1D
Entries 46
Mean 0.01044
Std Dev 0.9162
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

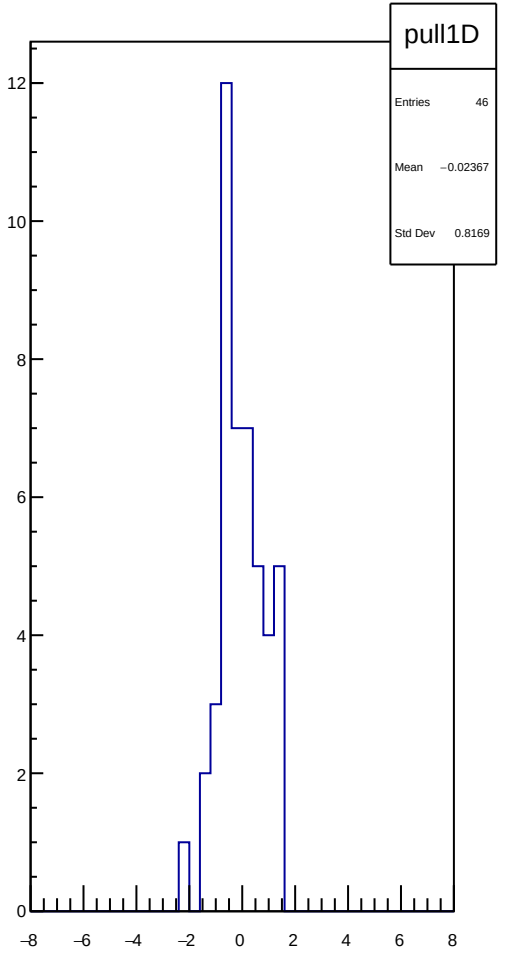

asym_at2_dd_correction_rms vs run
χ² / ndf 378 / 45
p0 537.1 ± 0.5498
580
570
560
550
540
530
520
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

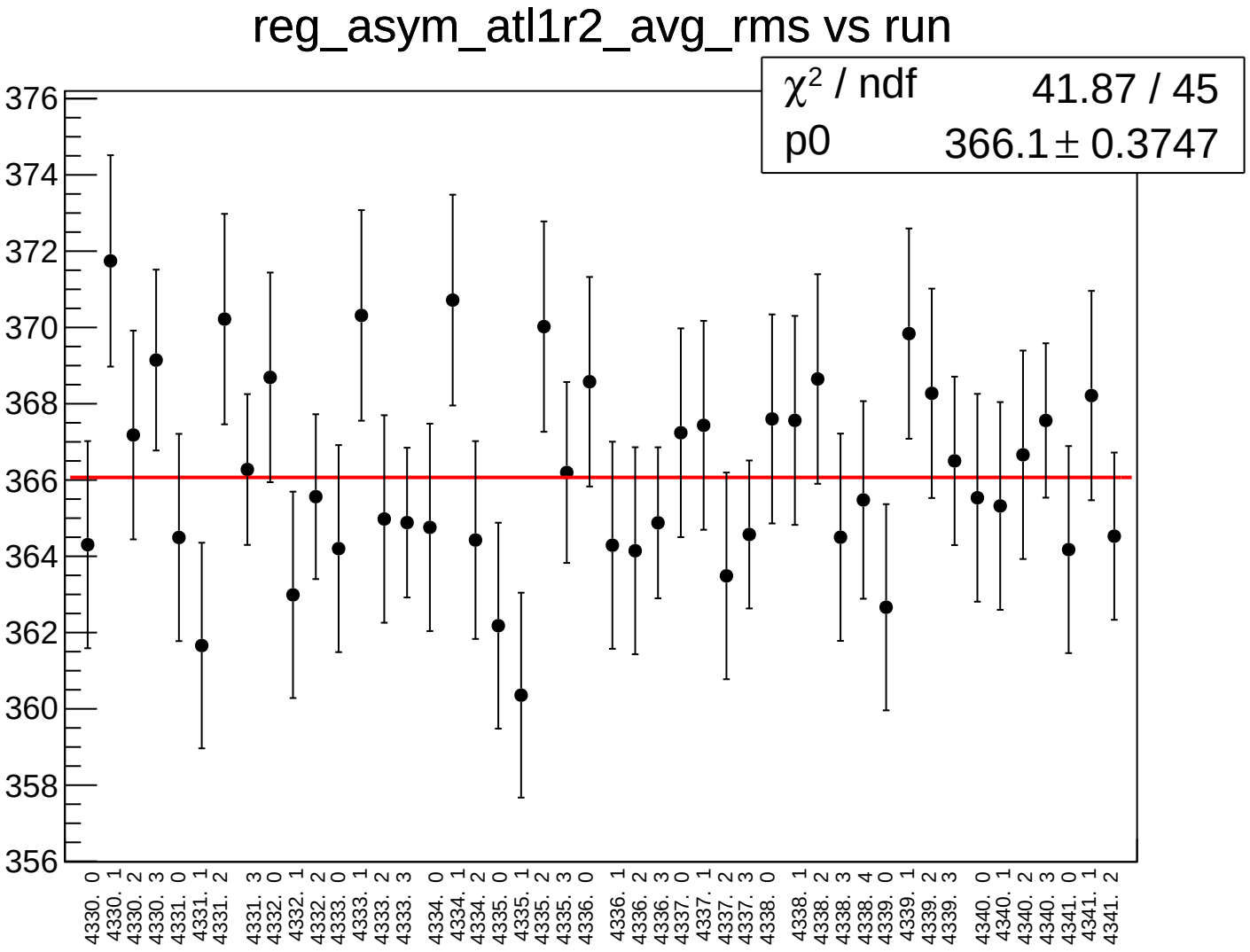

asym_at2_dd_mean vs run
χ^2 / ndf 40.98 / 45
p0 926.9 ± 843.3
20000
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −281.7
Std Dev 297.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

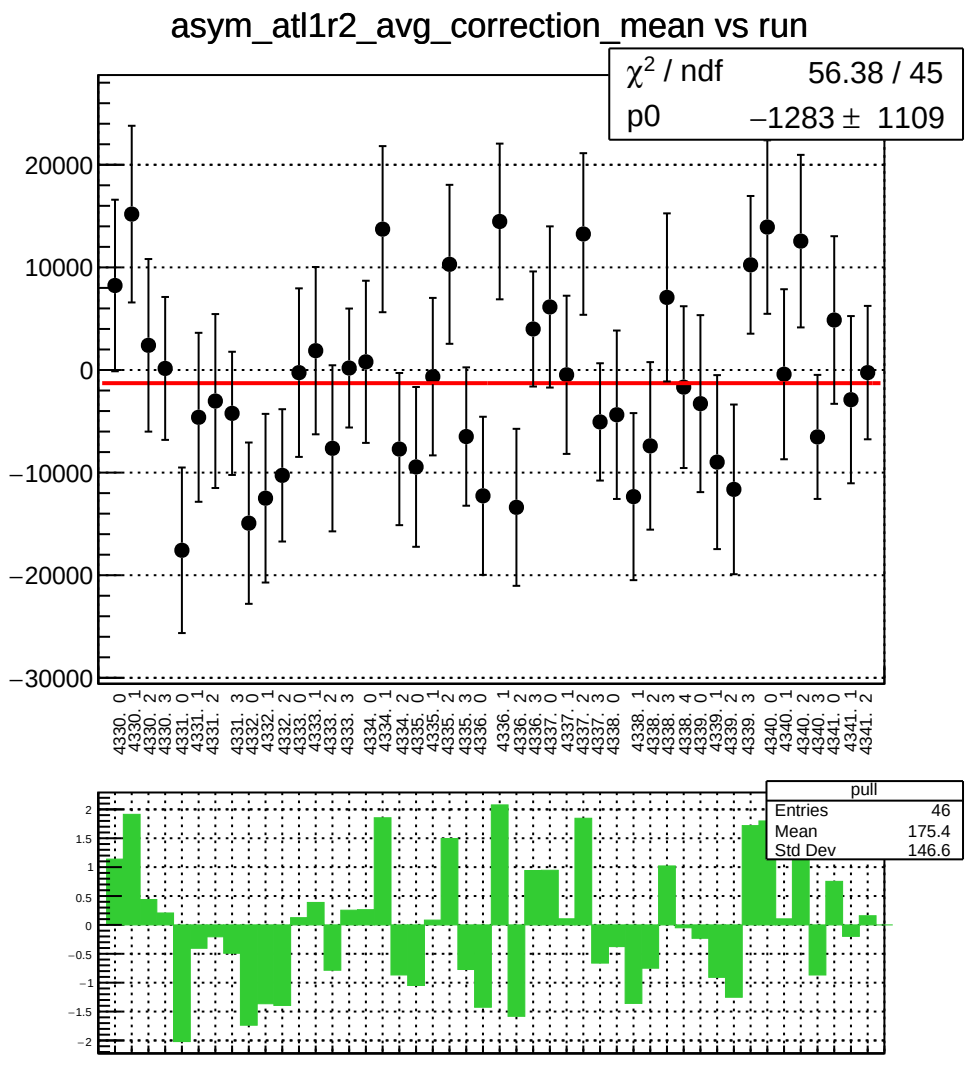

pull1D
Entries 46
Mean −0.003074
Std Dev 0.9439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

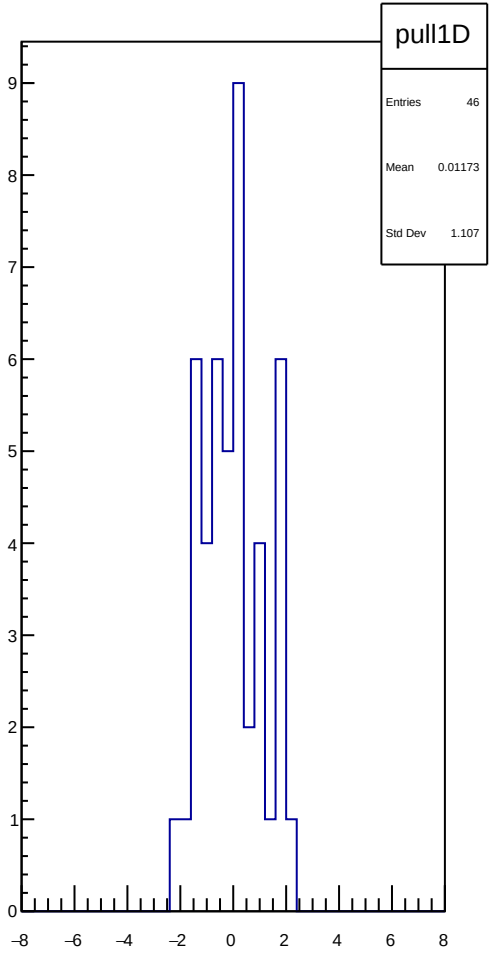

asym_at2_dd_rms vs run
χ² / ndf 297.5 / 45
p0 582.5 ± 0.5963
620
610
600
590
580
570
560
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

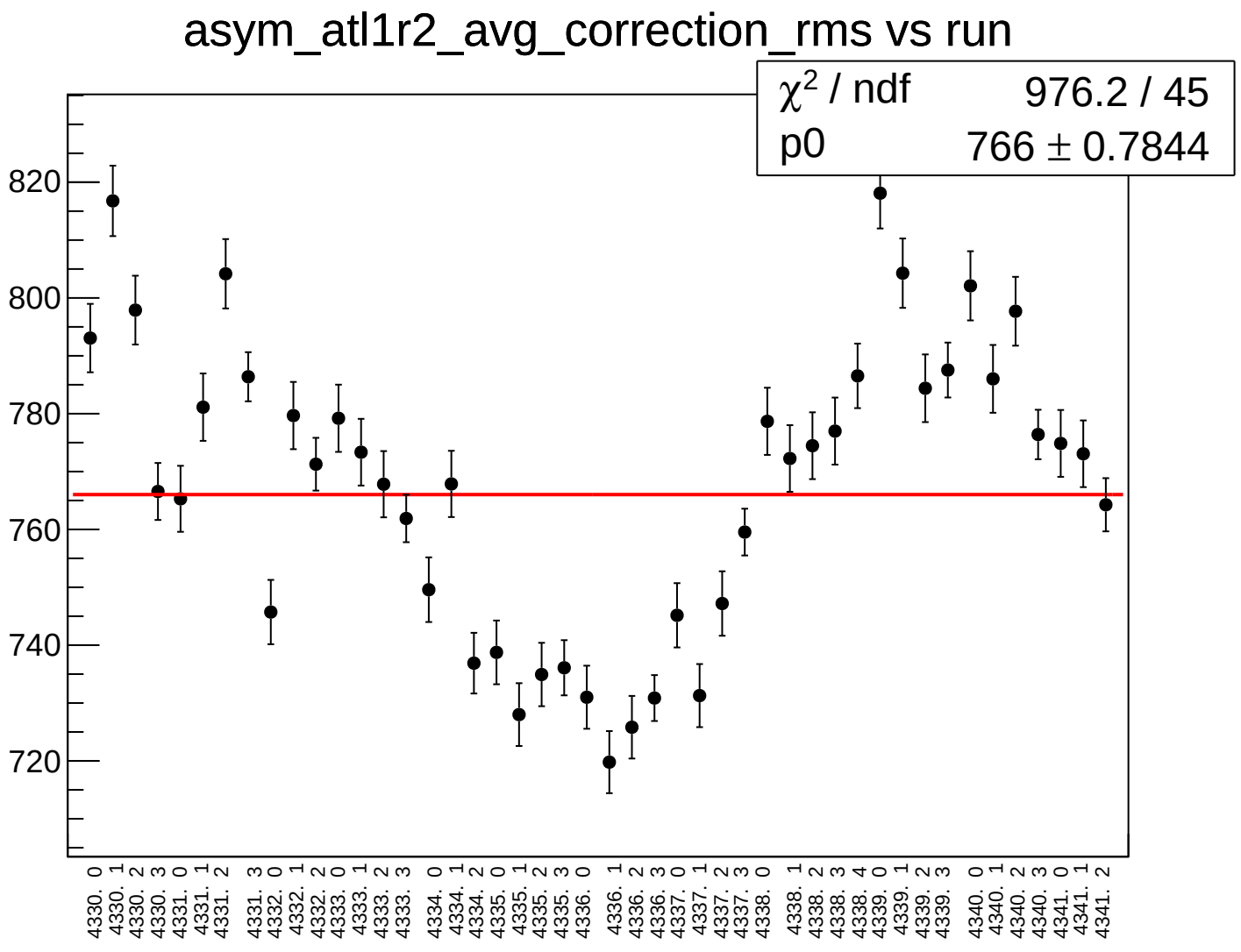

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 30.72 / 45
p0 −1812 ± 529.9
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 86.89
Std Dev 67.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

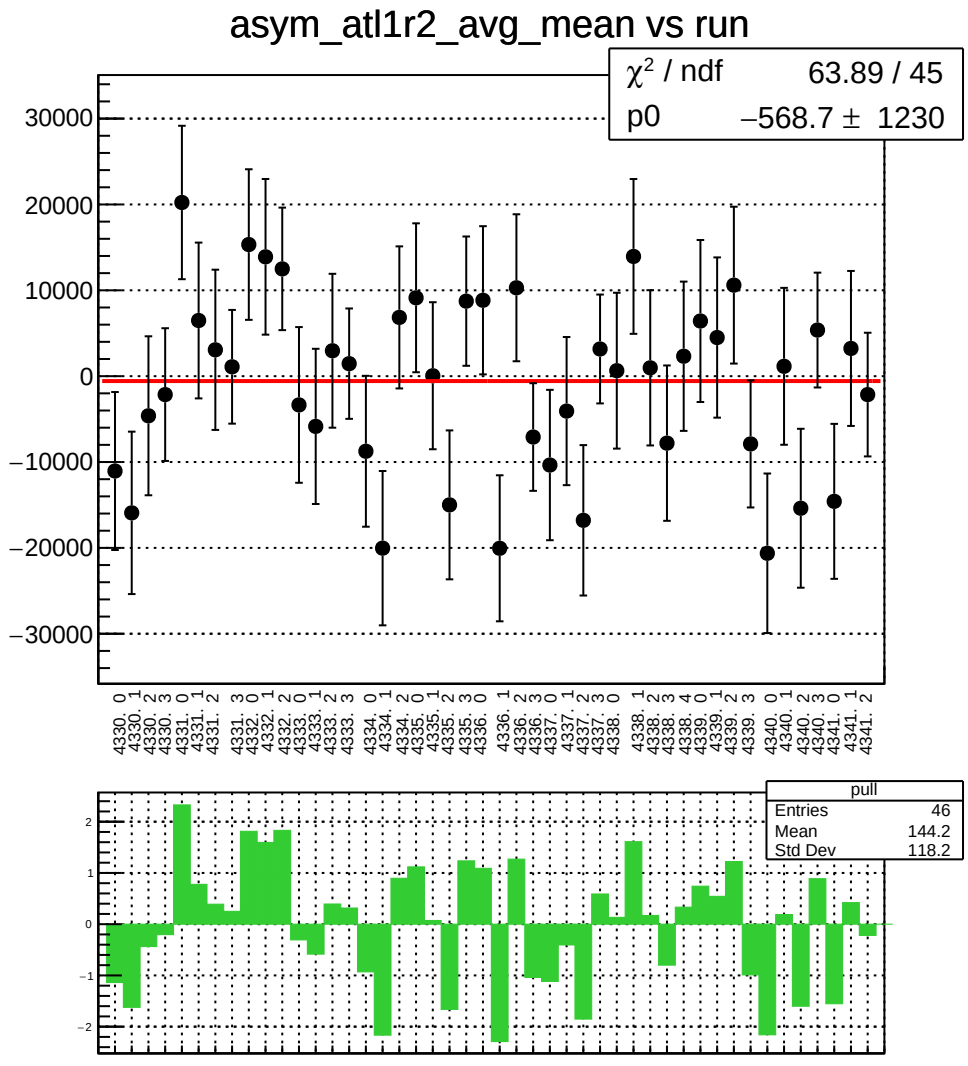

pull1D
Entries 46
Mean −0.02367
Std Dev 0.8169
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

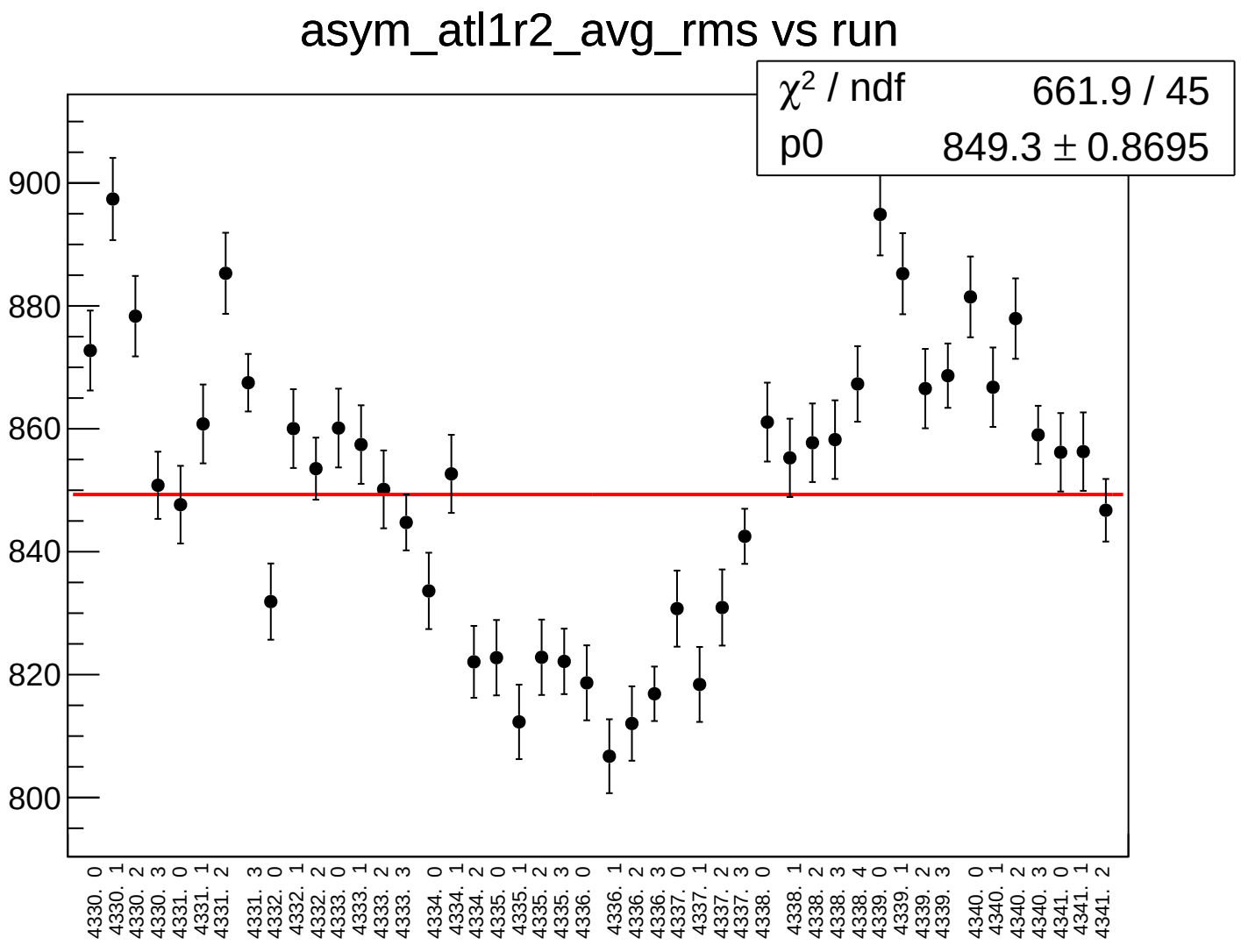

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 41.87 / 45
p0 366.1 ± 0.3747
376
374
372
370
368
366
364
362
360
358
356
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

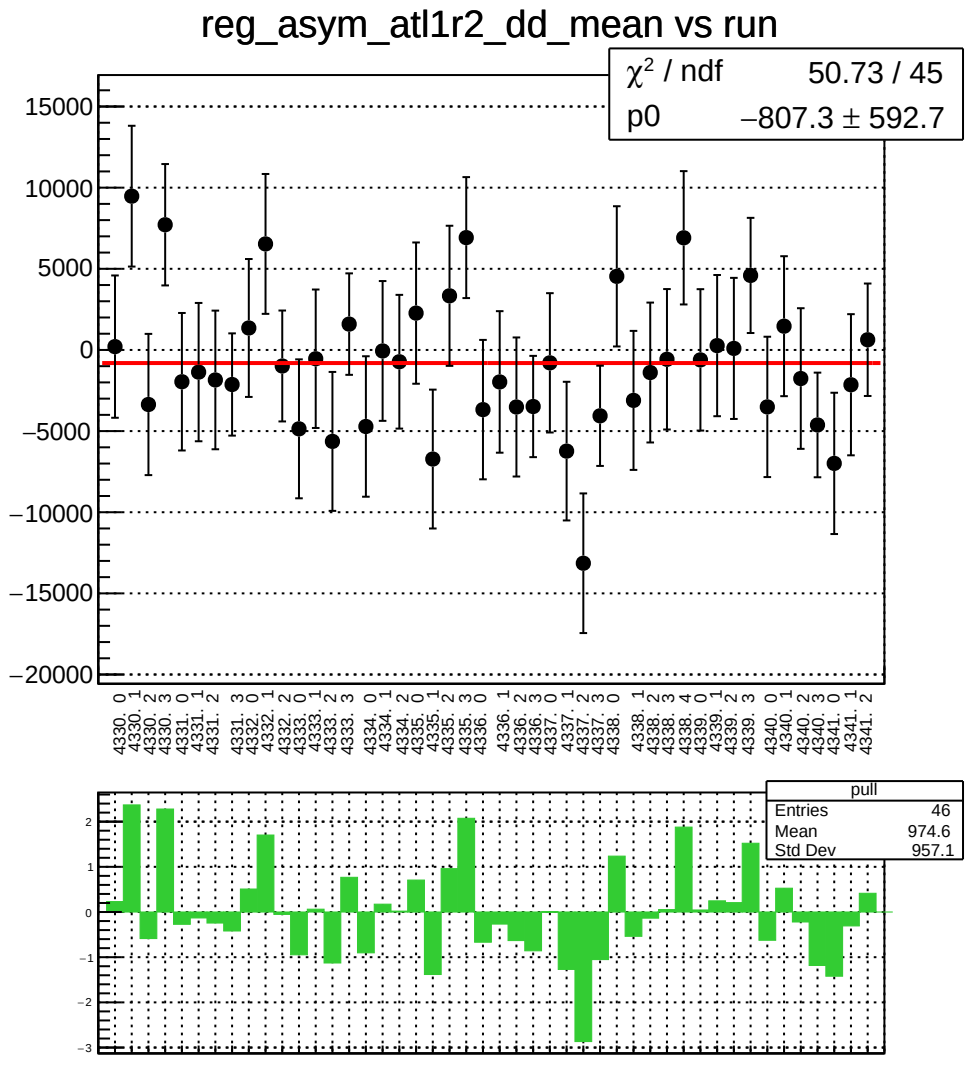

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 56.38 / 45
p0 −1283 ± 1109
20000
10000
0
−10000
−20000
−30000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 175.4
Std Dev 146.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

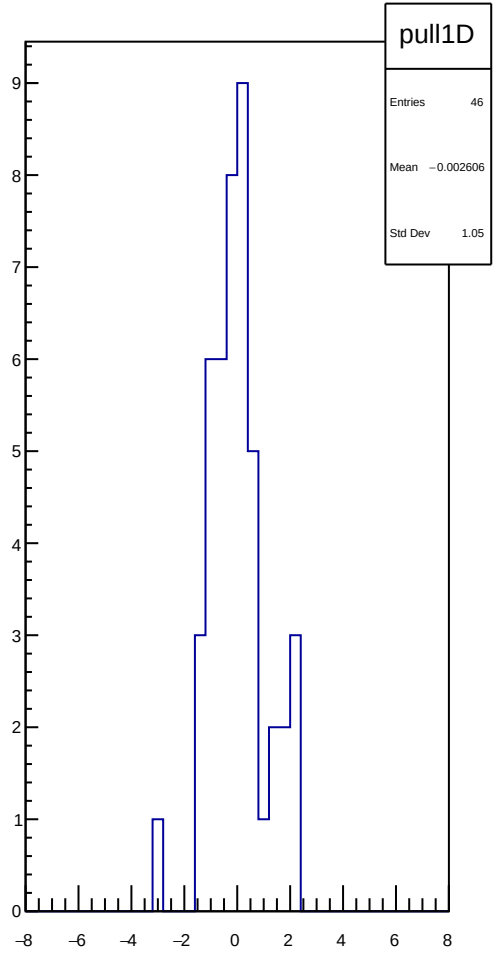

pull1D
Entries 46
Mean 0.01173
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

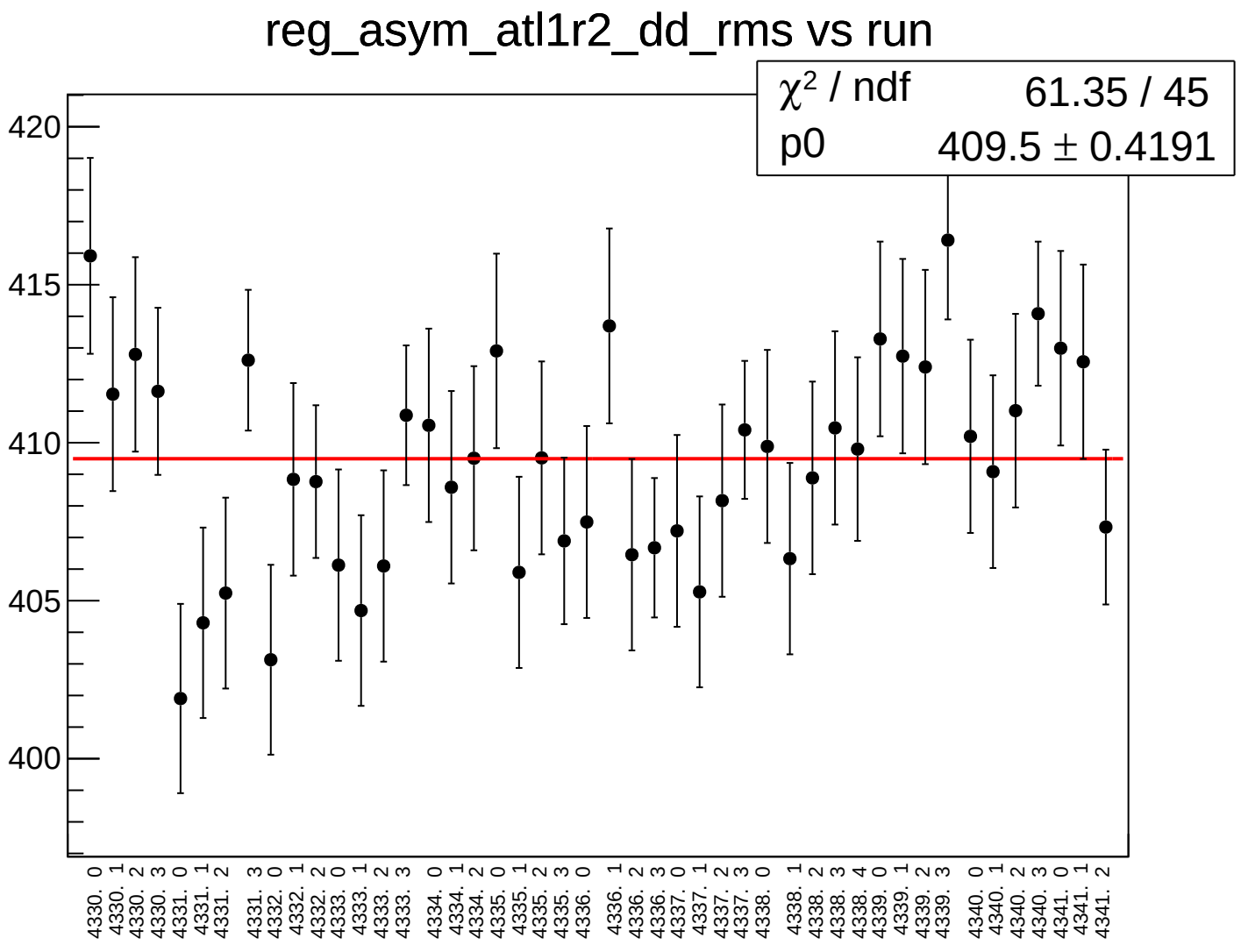

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 976.2 / 45
p0 766 ± 0.7844
820
800
780
760
740
720
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

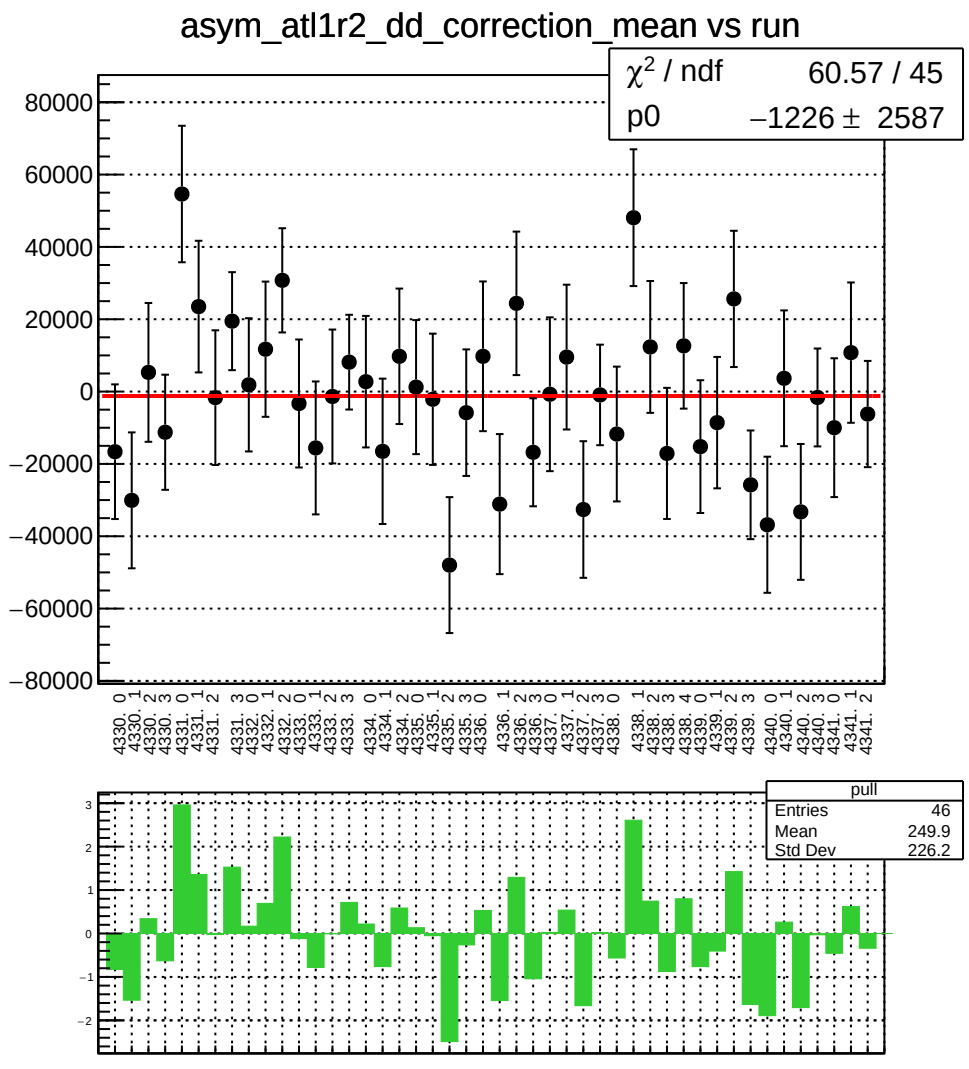

asym_atl1r2_avg_mean vs run
χ² / ndf 63.89 / 45
p0 −568.7 ± 1230
30000
20000
10000
0
−10000
−20000
−30000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 144.2
Std Dev 118.2
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01865
Std Dev 1.178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

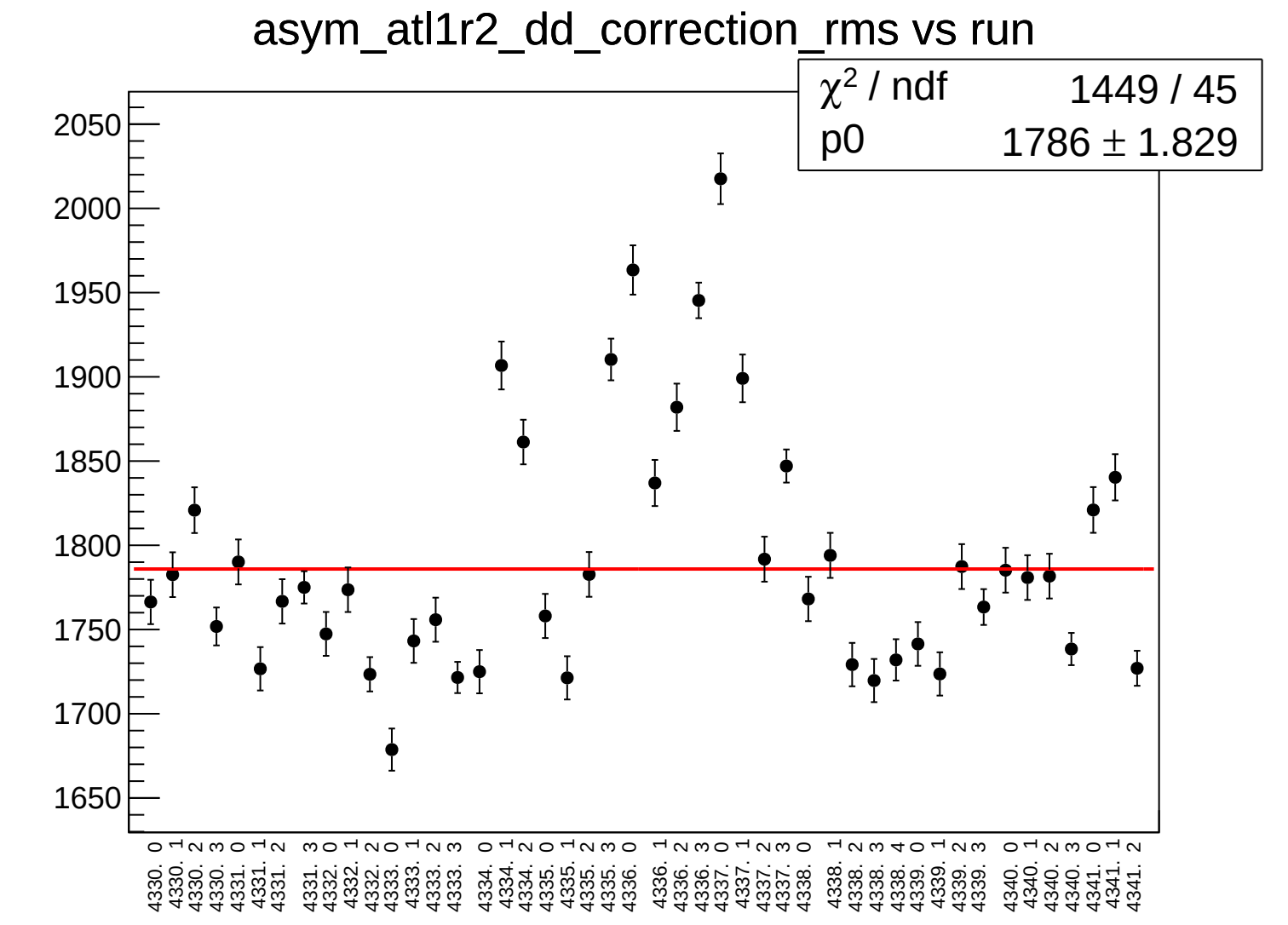

asym_atl1r2_avg_rms vs run
χ² / ndf 661.9 / 45
p0 849.3 ± 0.8695
900
880
860
840
820
800
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

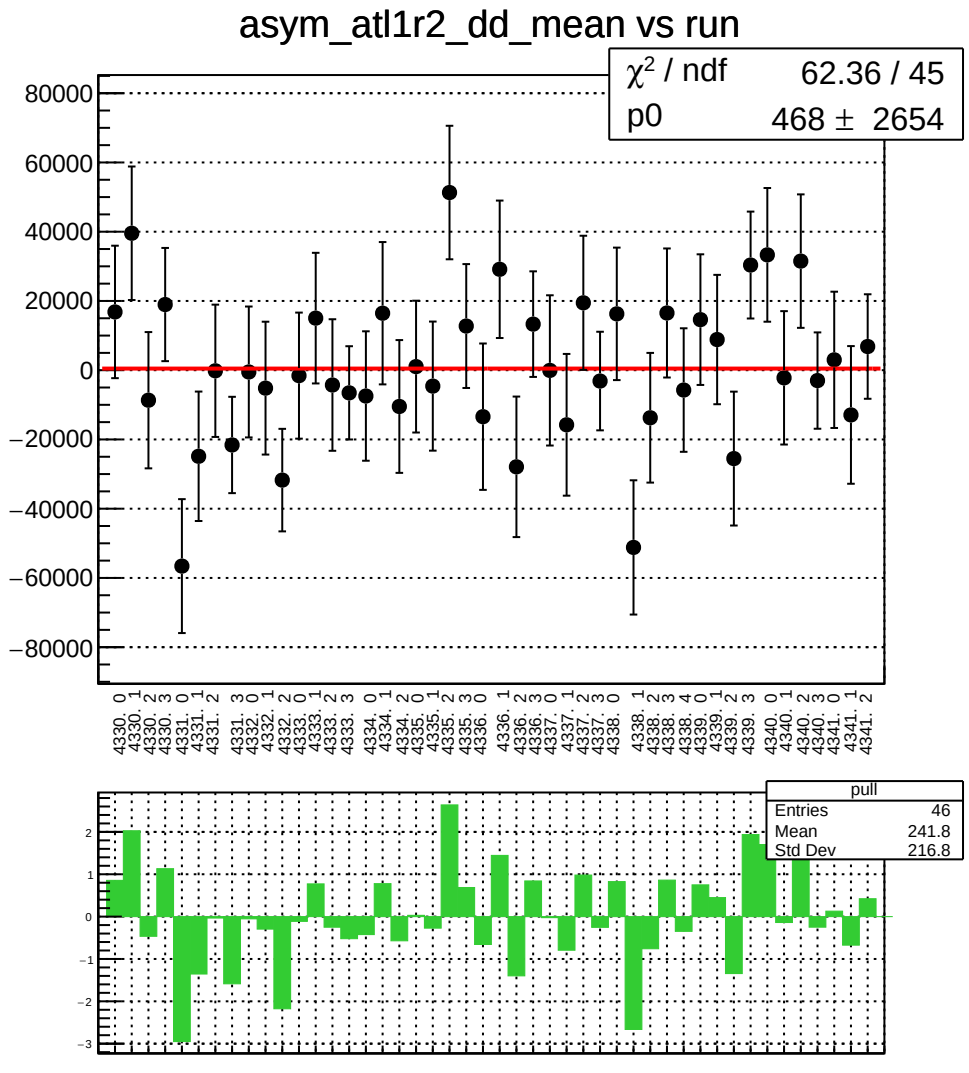

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 50.73 / 45
p0 −807.3 ± 592.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 974.6
Std Dev 957.1
2
1
0
−1
−2
−3

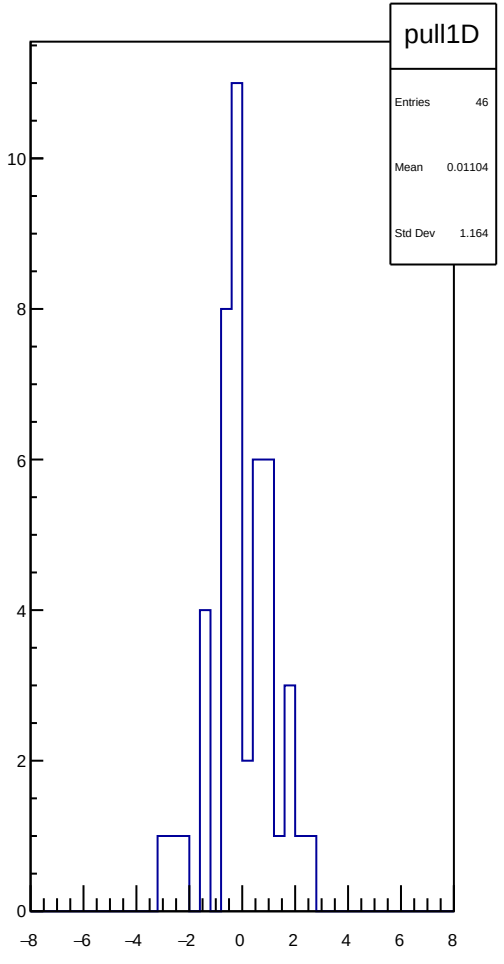

pull1D
Entries 46
Mean −0.002606
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

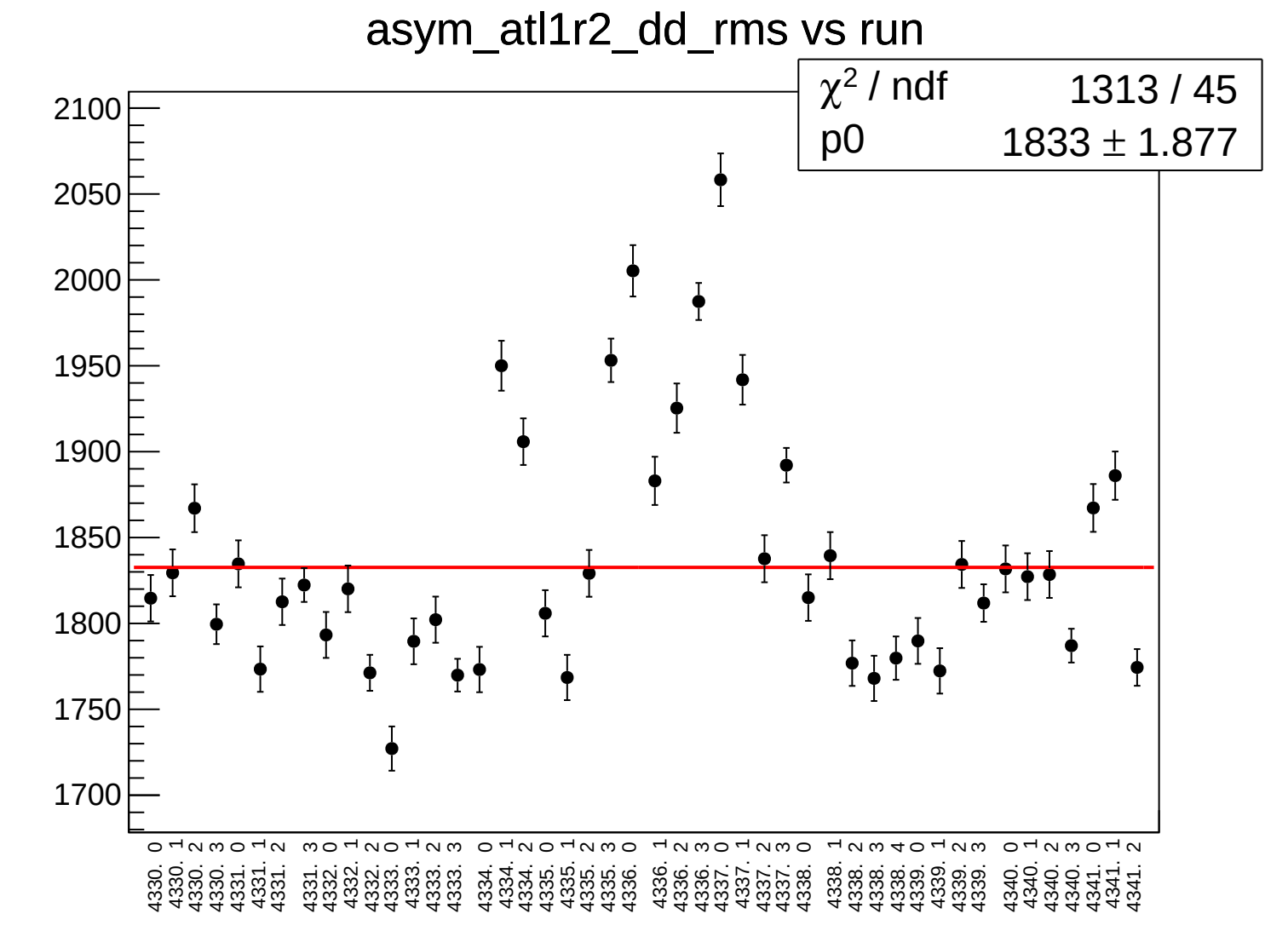

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 61.35 / 45
p0 409.5 ± 0.4191
420
415
410
405
400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

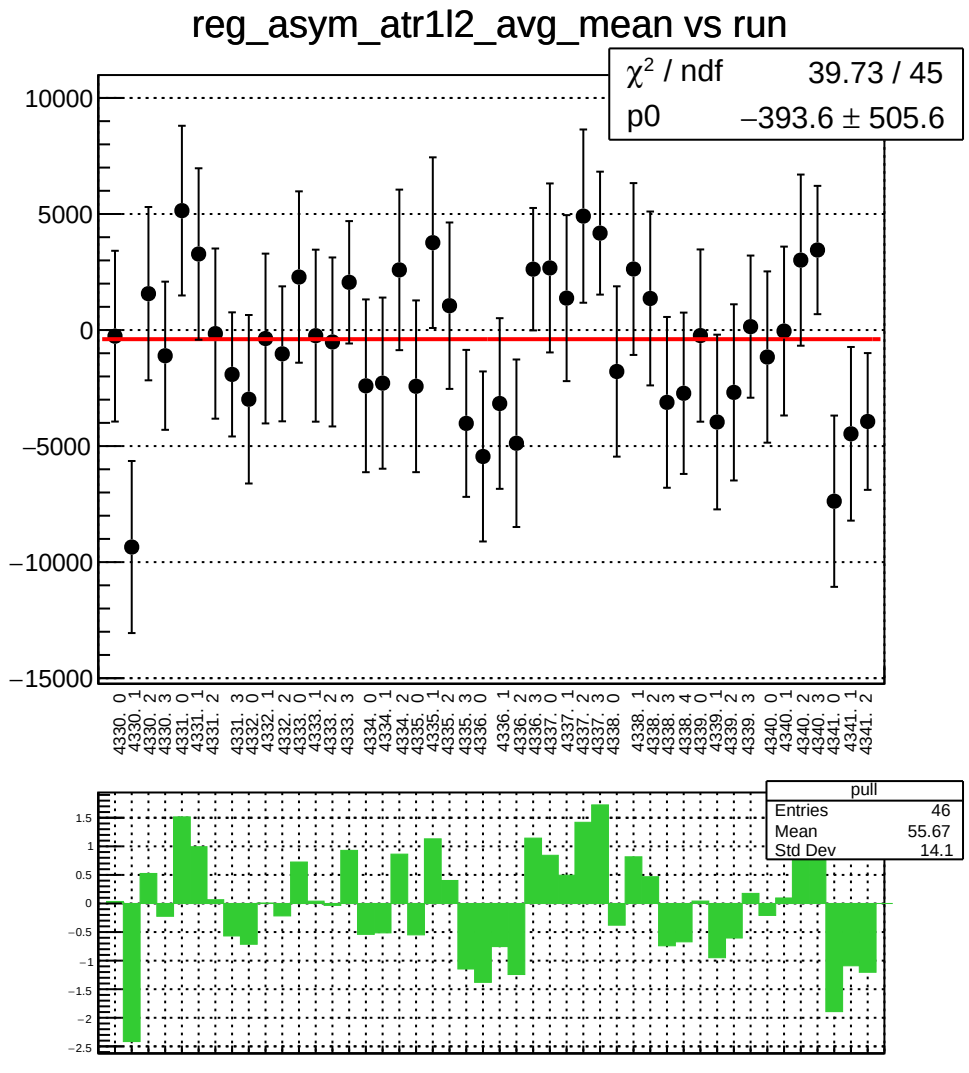

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 60.57 / 45
p0 −1226 ± 2587
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 249.9
Std Dev 226.2
3
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01341
Std Dev 1.147
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

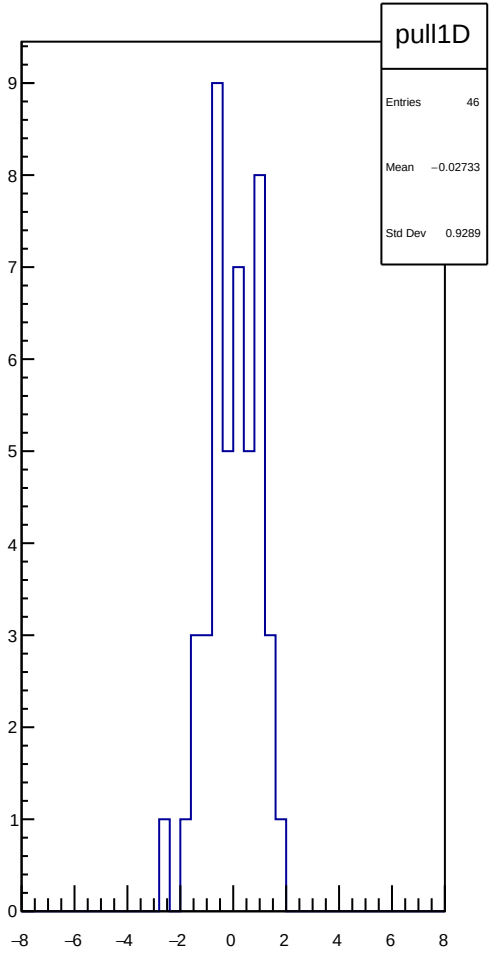

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1449 / 45
p0 1786 ± 1.829
2050
2000
1950
1900
1850
1800
1750
1700
1650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

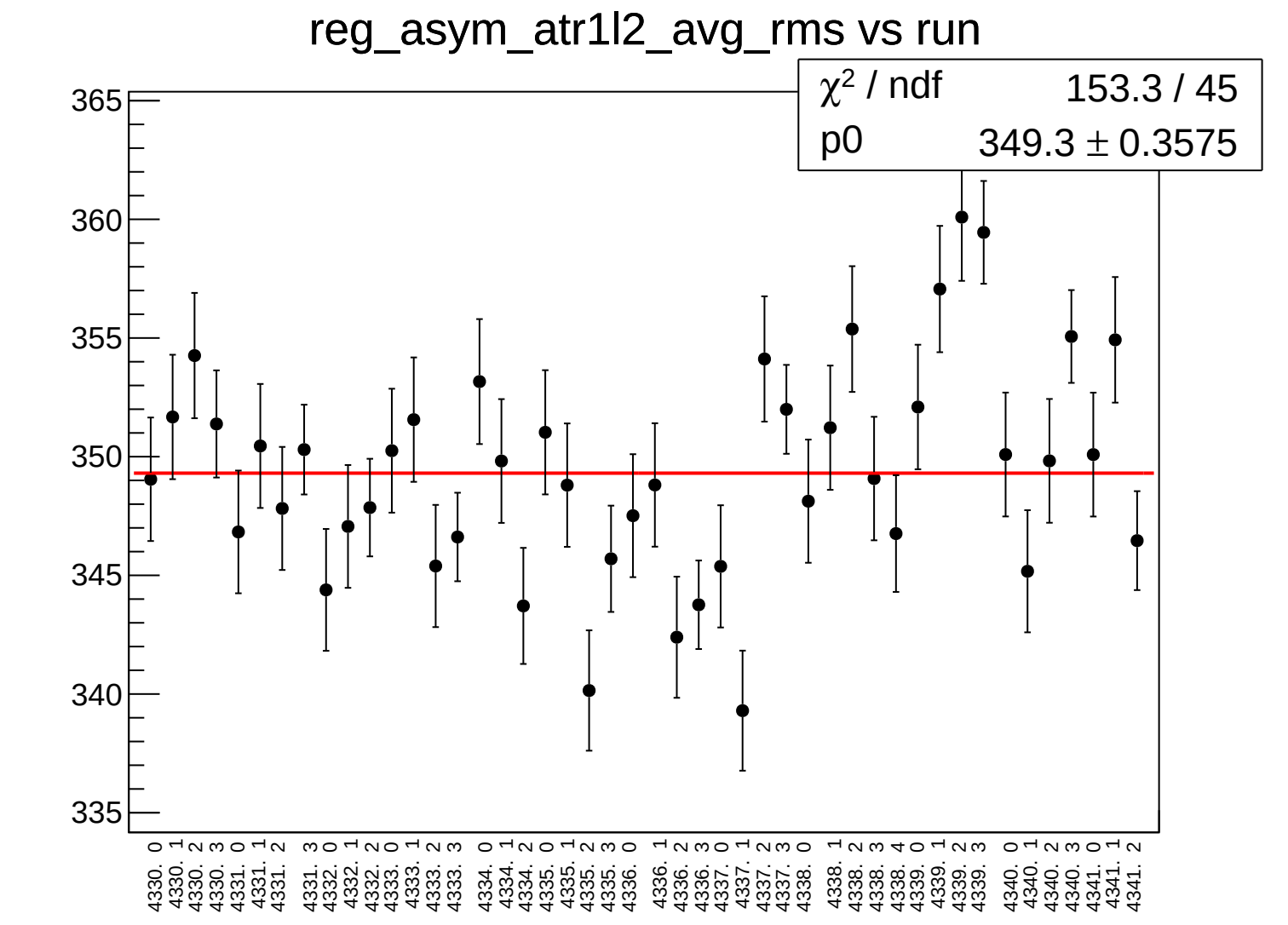

asym_atl1r2_dd_mean vs run
χ² / ndf 62.36 / 45
p0 468 ± 2654
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 241.8
Std Dev 216.8
2
1
0
−1
−2
−3

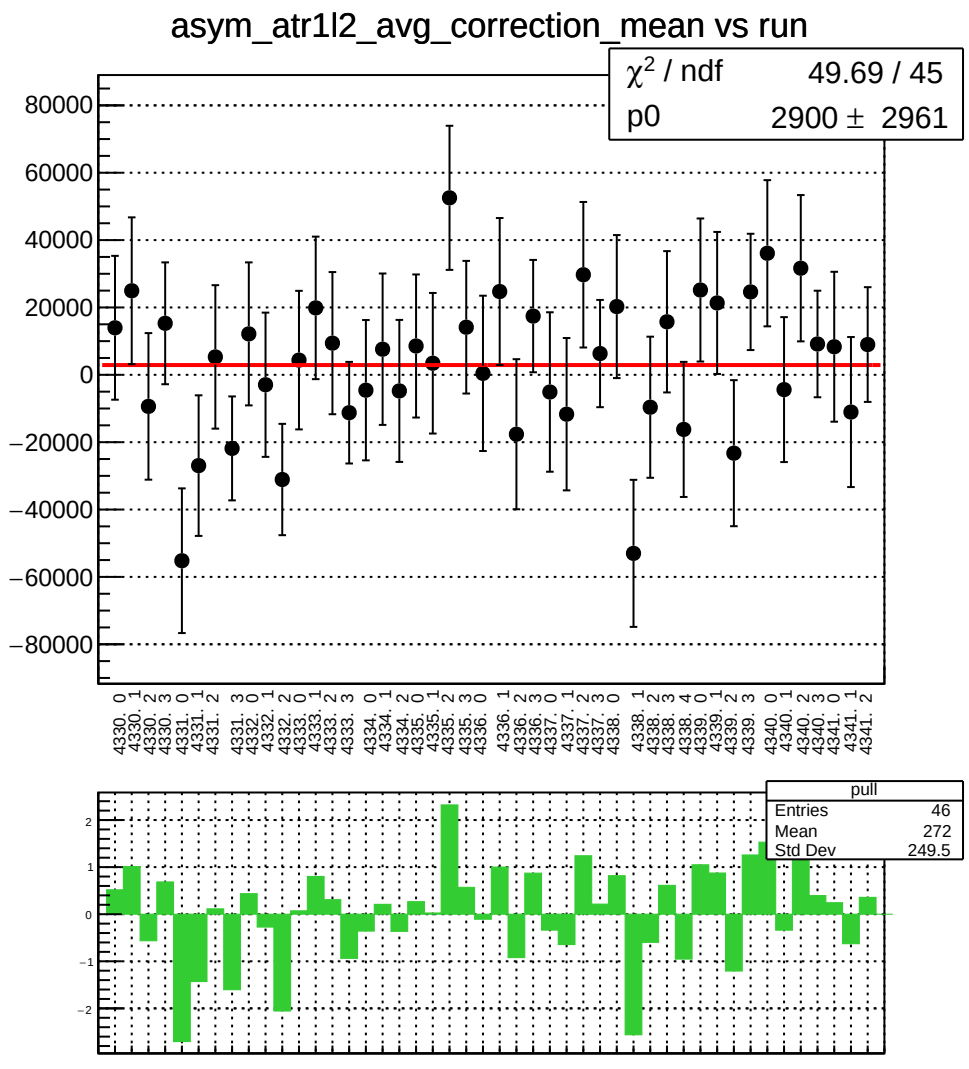

pull1D
Entries 46
Mean 0.01104
Std Dev 1.164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

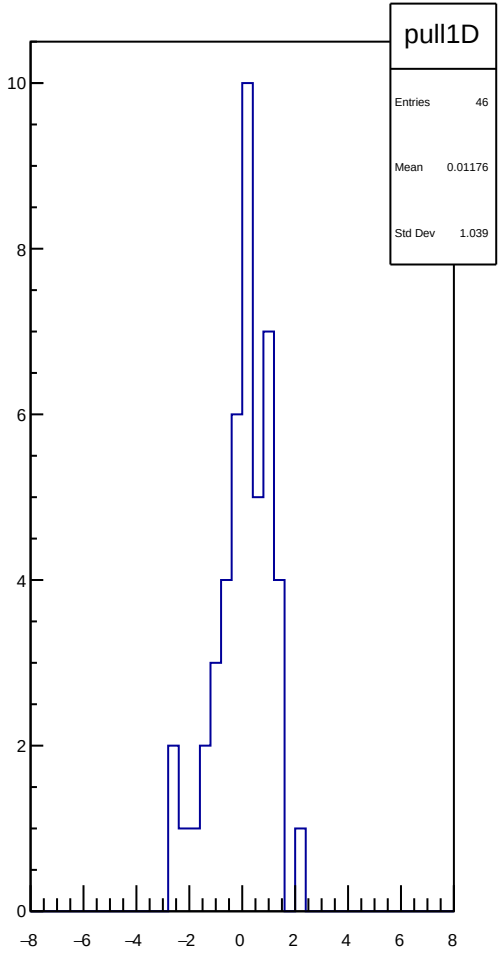

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1313 / 45
p0 1833 ± 1.877
2100
2050
2000
1950
1900
1850
1800
1750
1700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

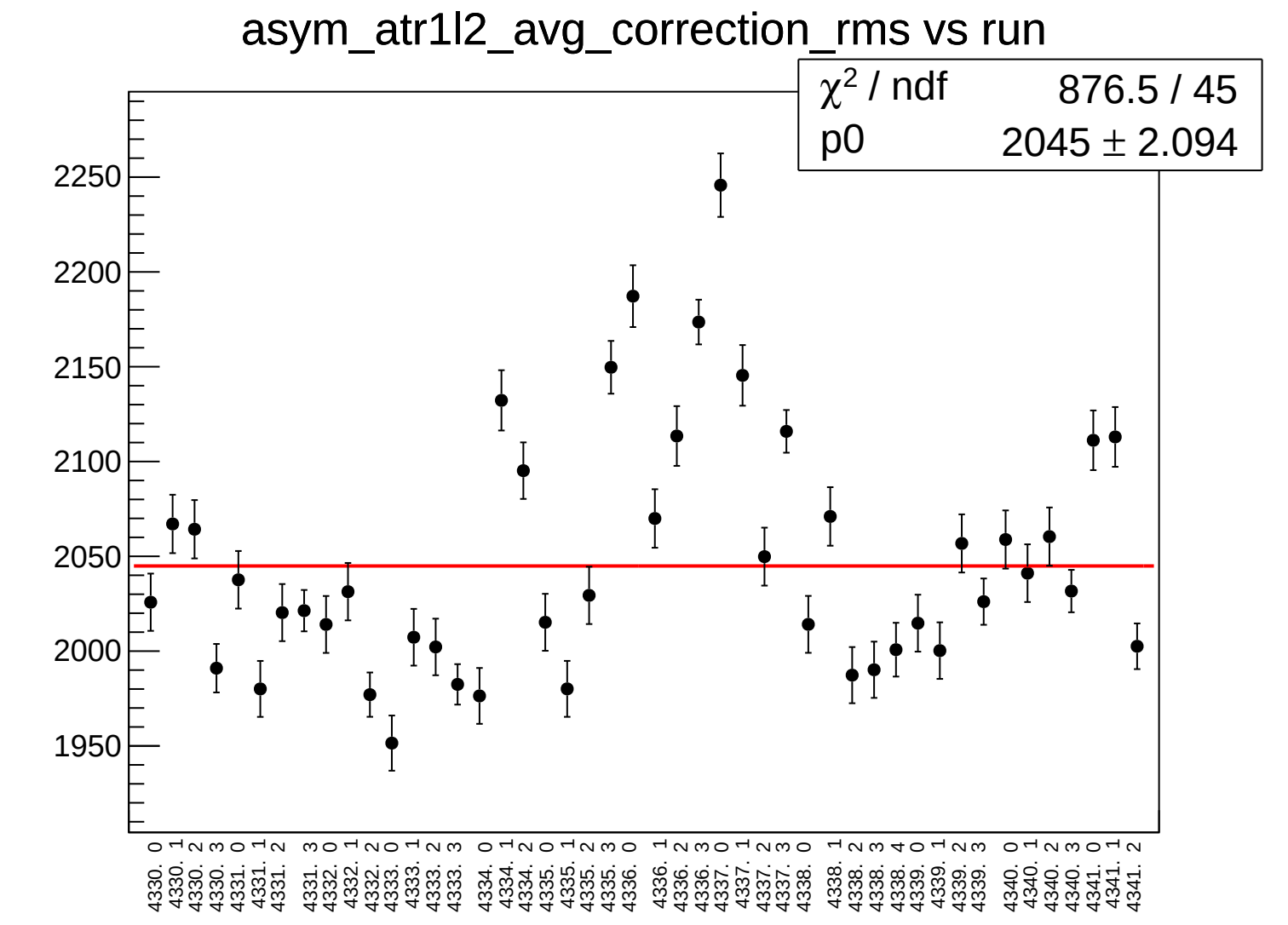

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 39.73 / 45
p0 −393.6 ± 505.6
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 55.67
Std Dev 14.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

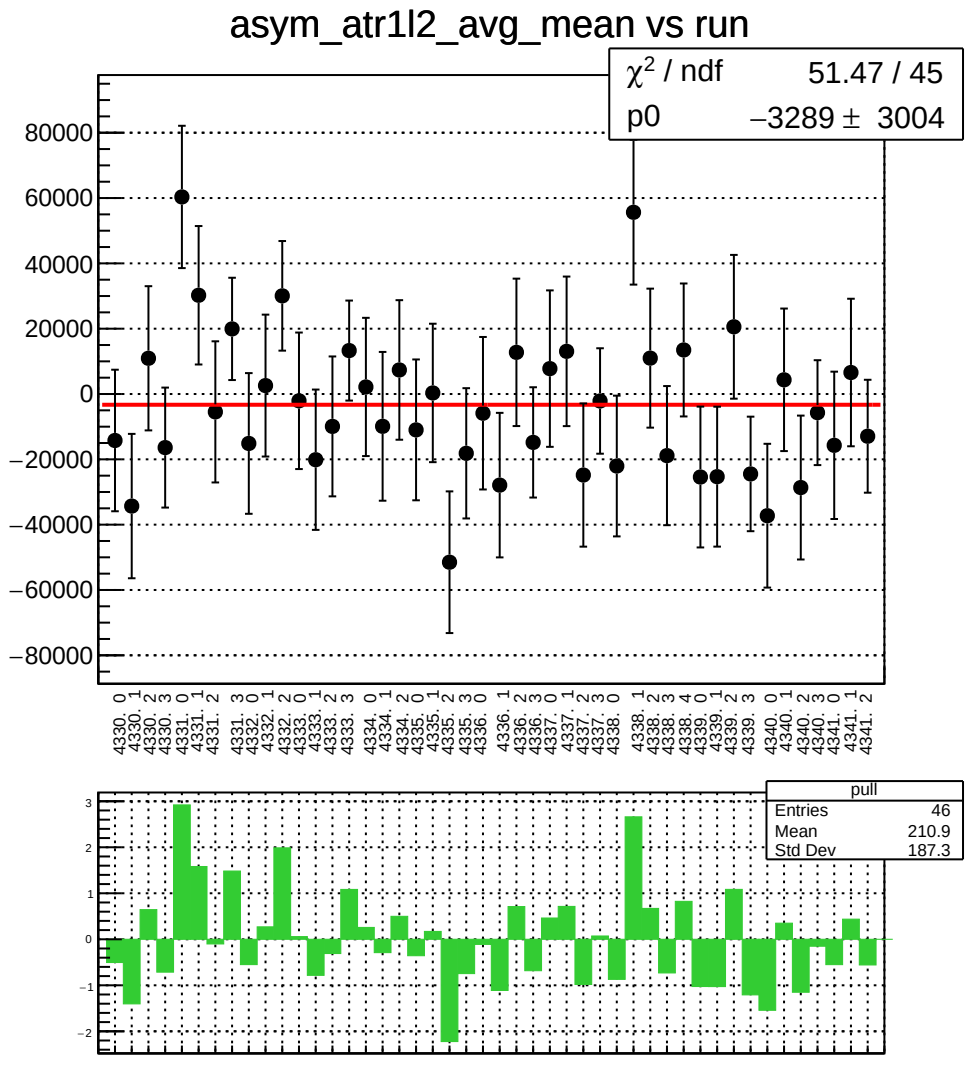

pull1D
Entries 46
Mean −0.02733
Std Dev 0.9289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

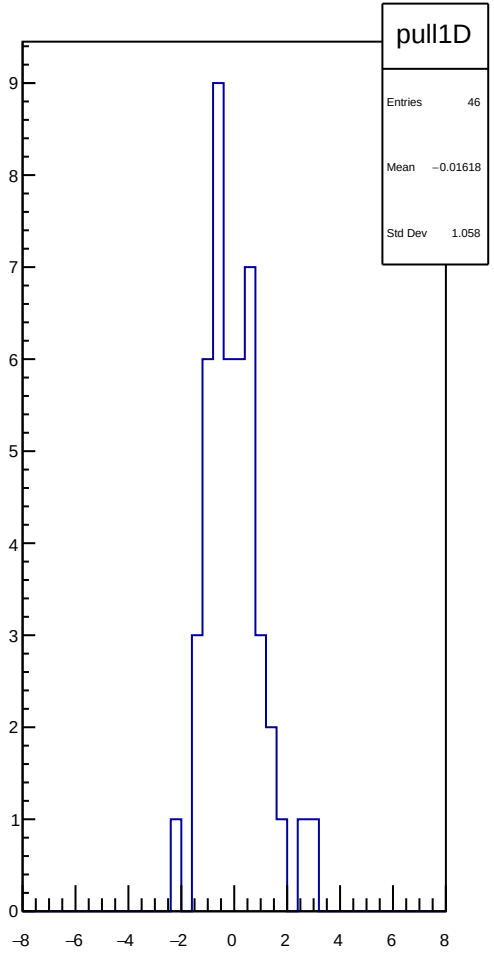

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 153.3 / 45
p0 349.3 ± 0.3575
365
360
355
350
345
340
335
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

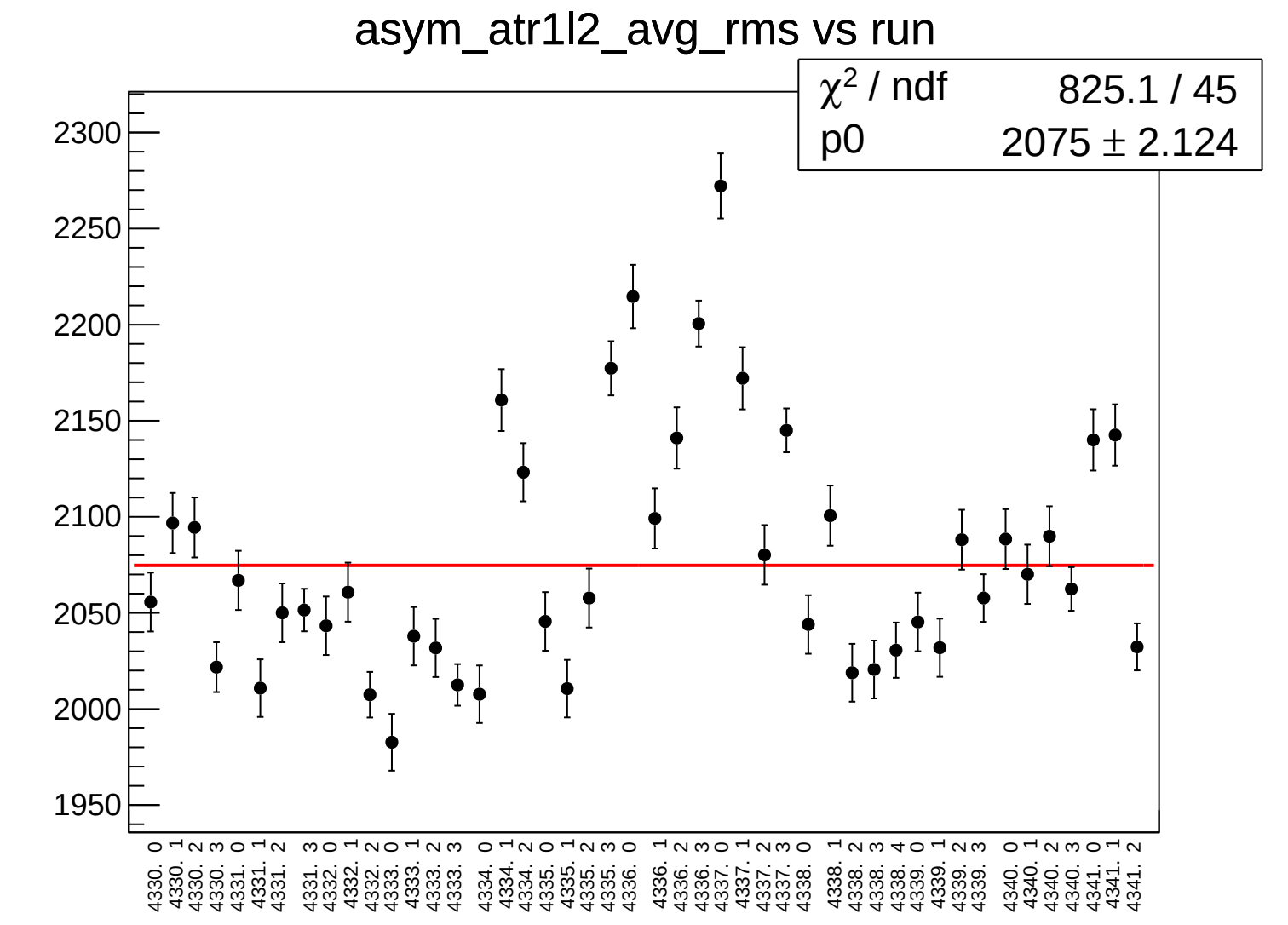

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 49.69 / 45
p0 2900 ± 2961
pull
Entries 46
Mean 272
Std Dev 249.5

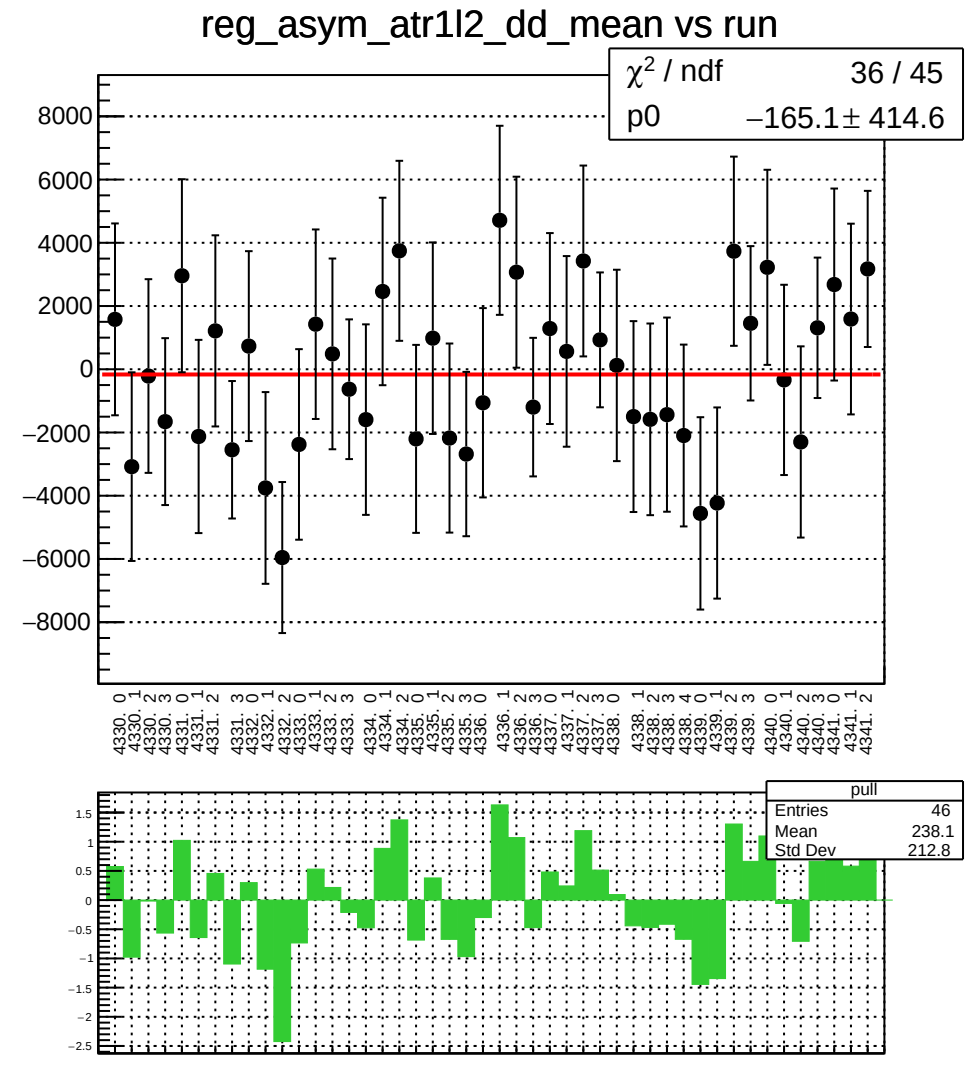

pull1D
Entries 46
Mean 0.01176
Std Dev 1.039

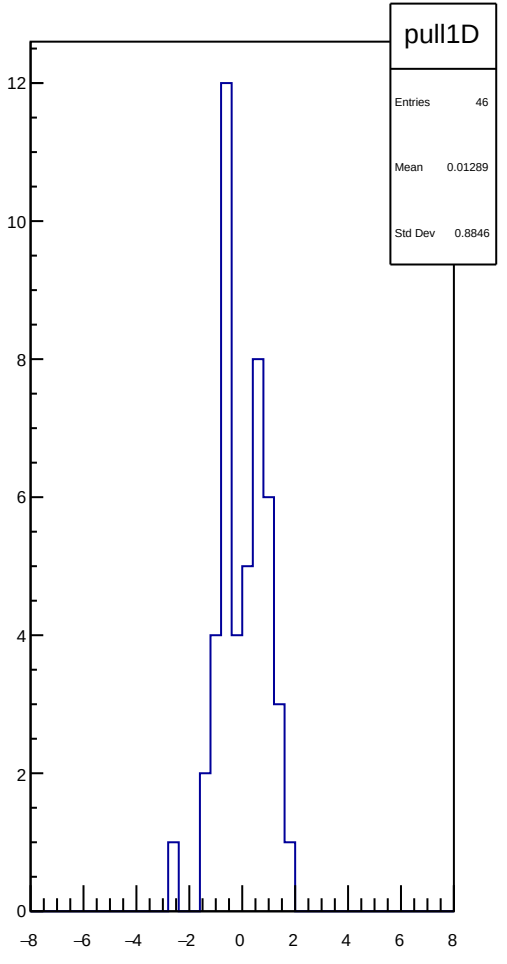

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 876.5 / 45
p0 2045 ± 2.094
2250
2200
2150
2100
2050
2000
1950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

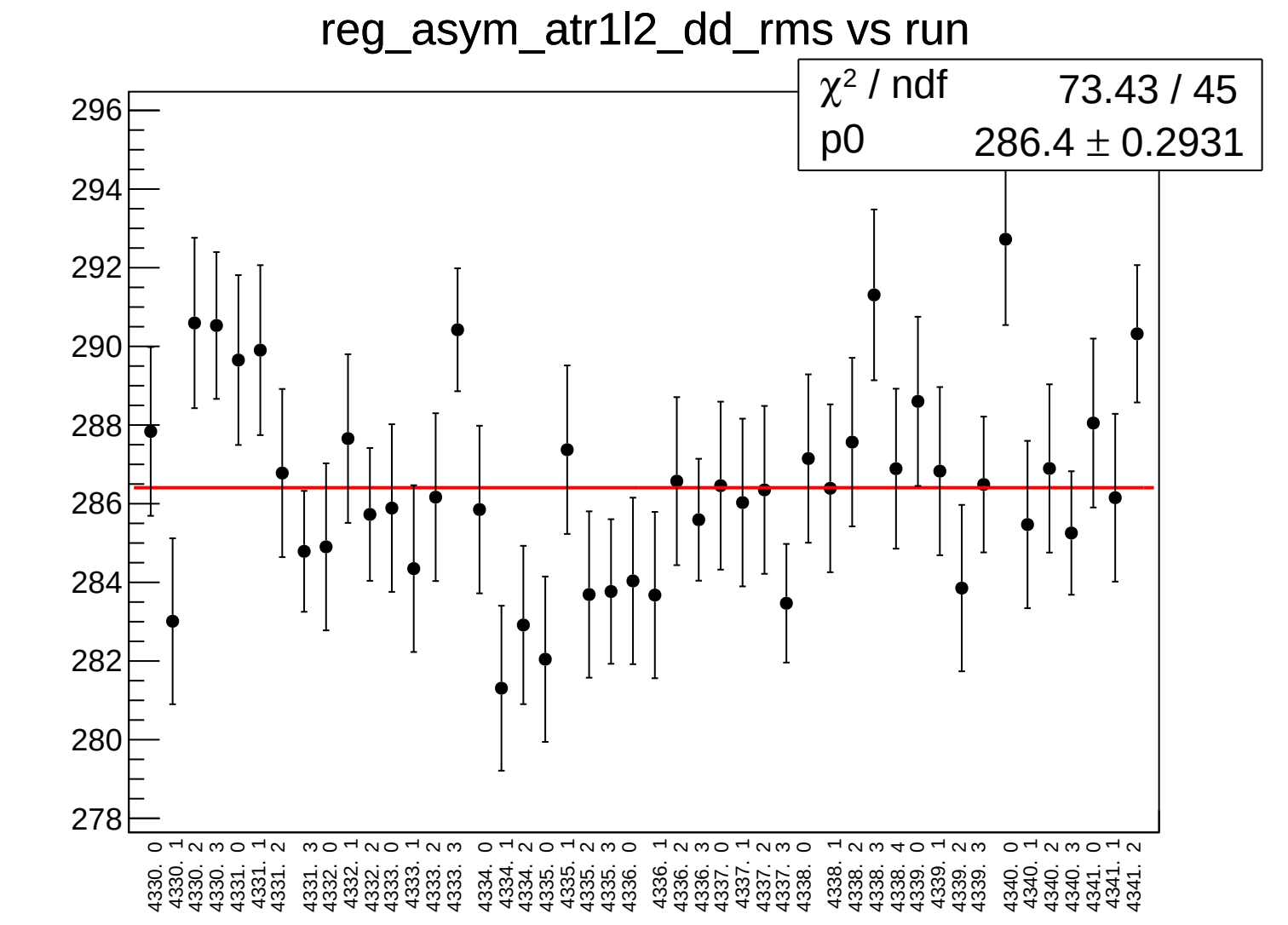

asym_atr1l2_avg_mean vs run
χ² / ndf 51.47 / 45
p0 −3289 ± 3004
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 210.9
Std Dev 187.3
3
2
1
0
−1
−2

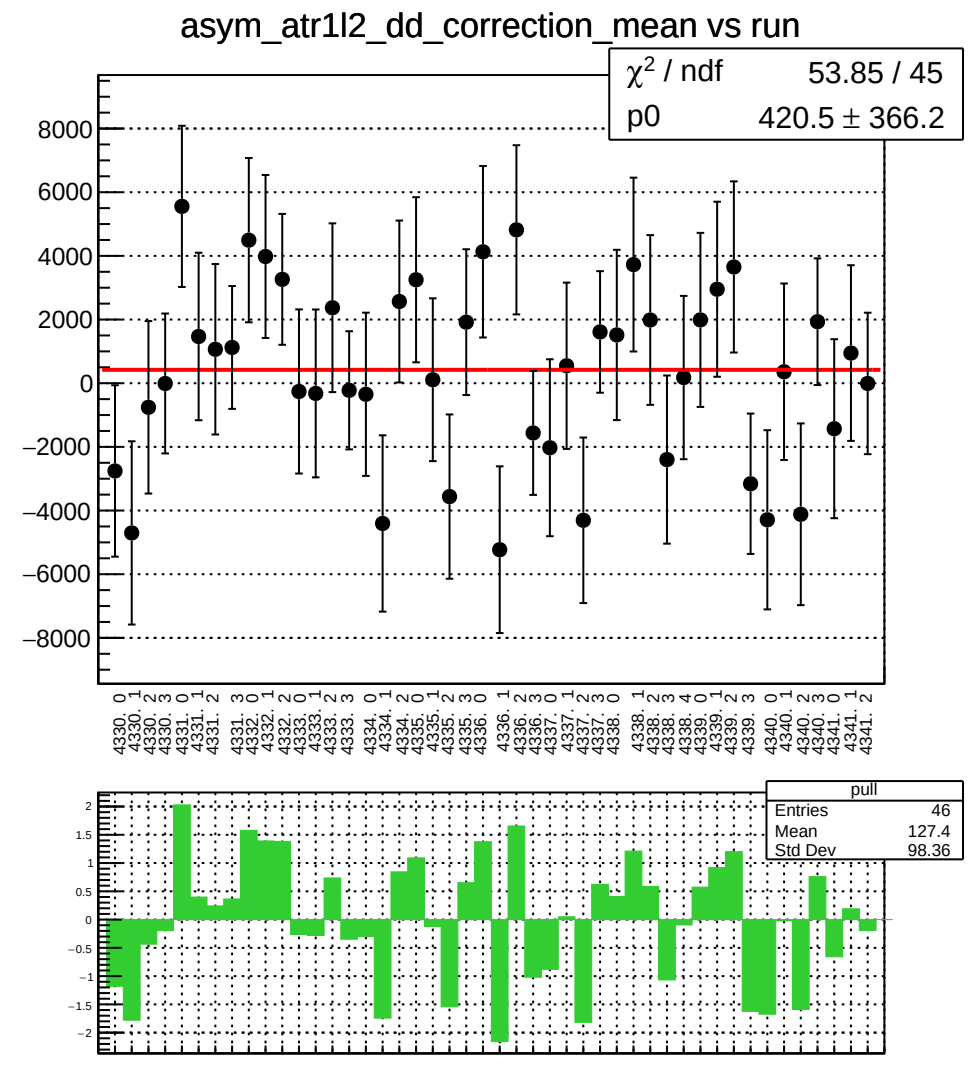

pull1D
Entries 46
Mean −0.01618
Std Dev 1.058
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

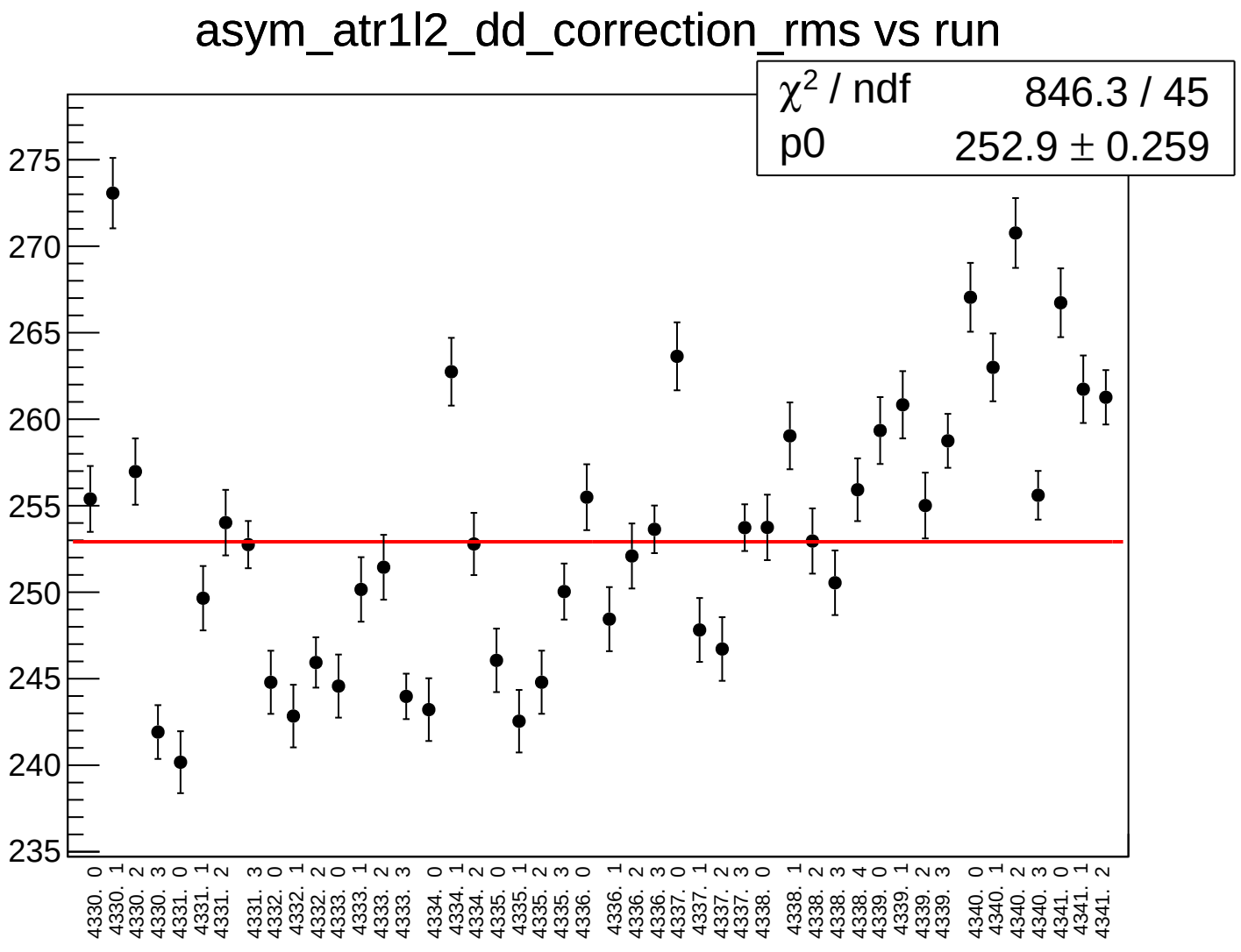

asym_atr1l2_avg_rms vs run
χ² / ndf 825.1 / 45
p0 2075 ± 2.124
2300
2250
2200
2150
2100
2050
2000
1950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

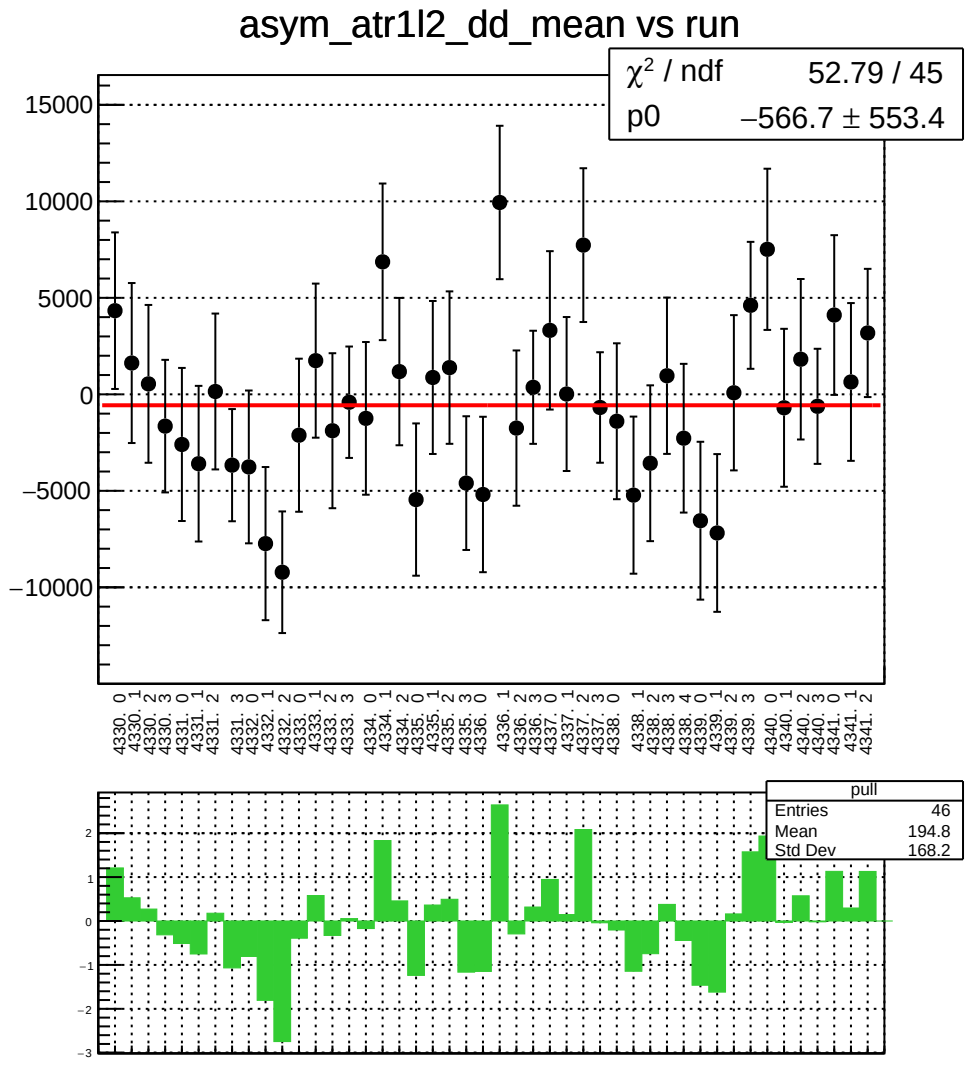

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 36 / 45
p0 −165.1± 414.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 238.1
Std Dev 212.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

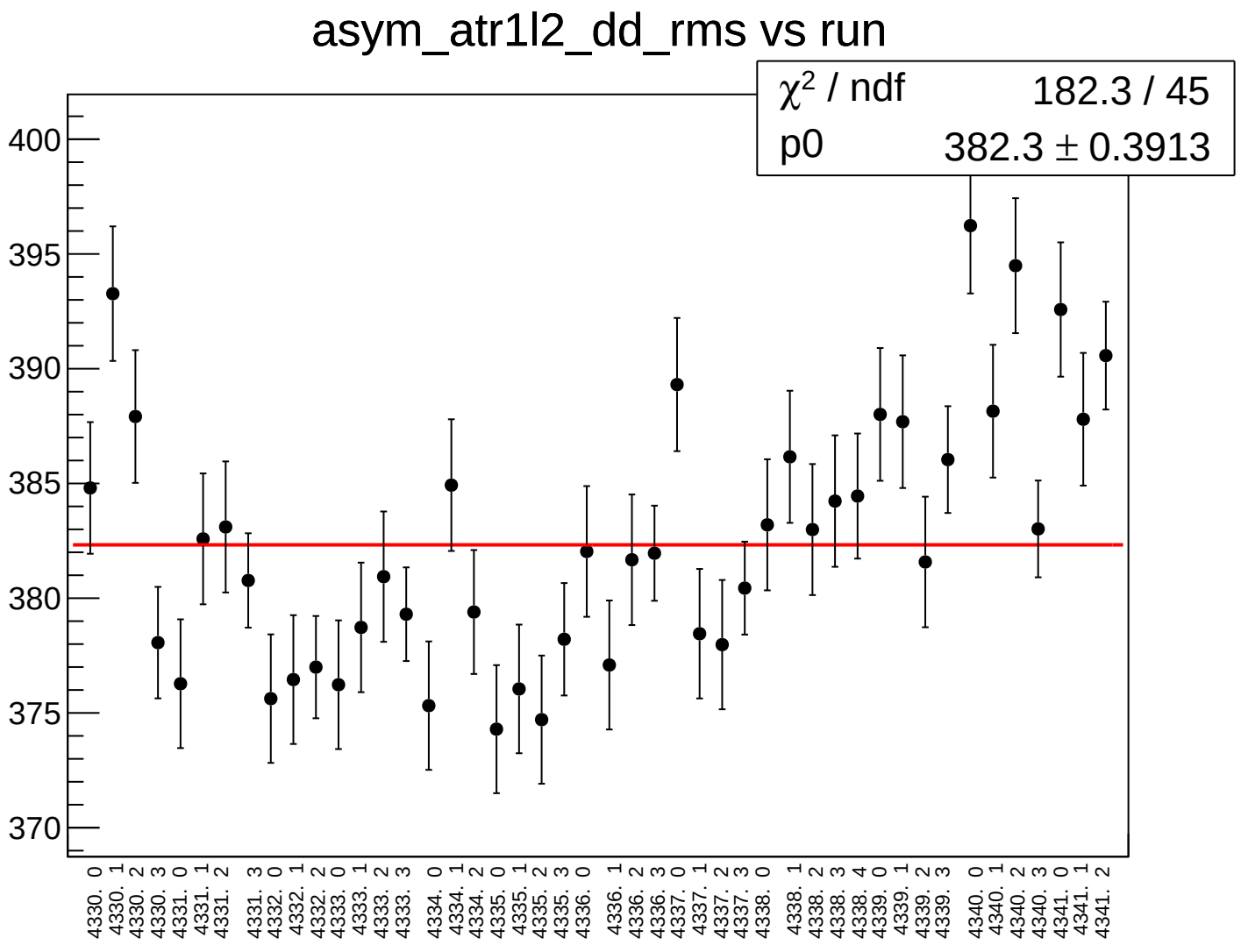

pull1D
Entries 46
Mean 0.01289
Std Dev 0.8846
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

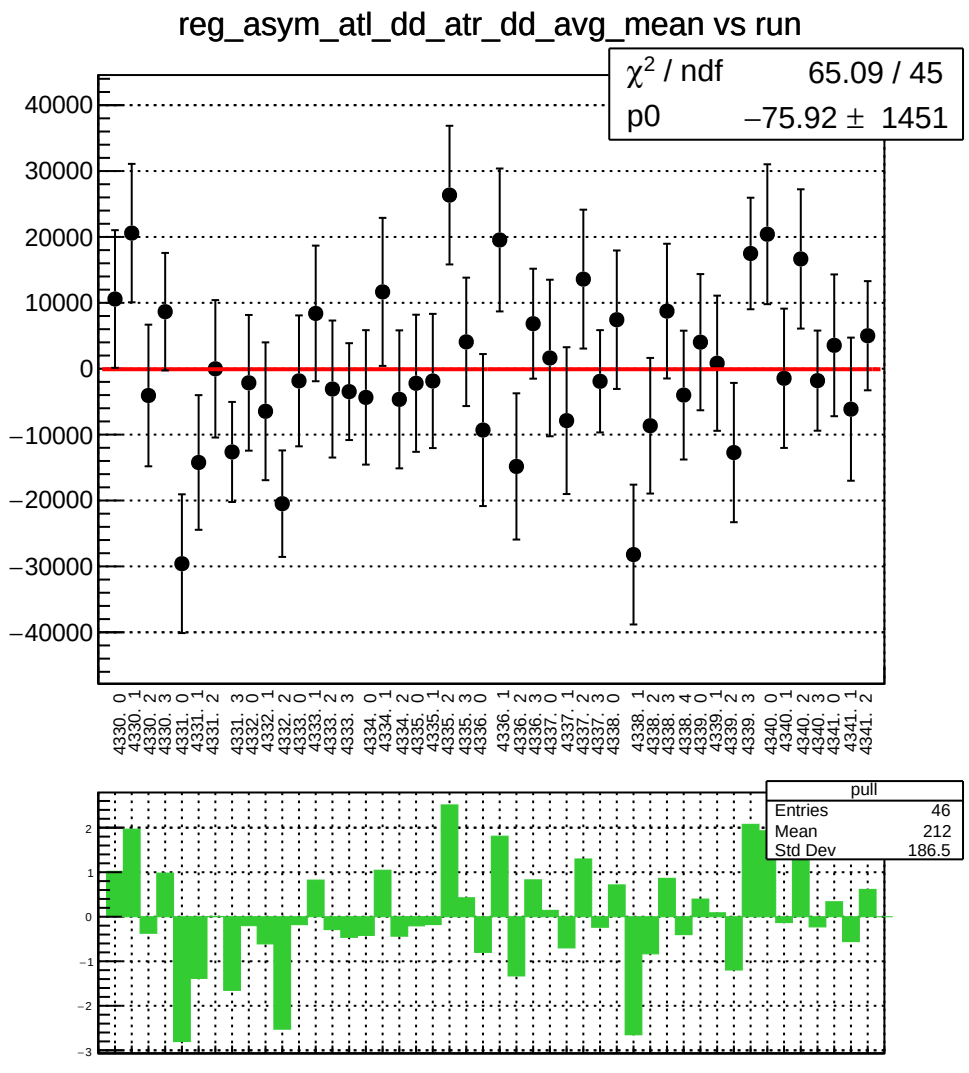

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 73.43 / 45
p0 286.4 ± 0.2931
296
294
292
290
288
286
284
282
280
278
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

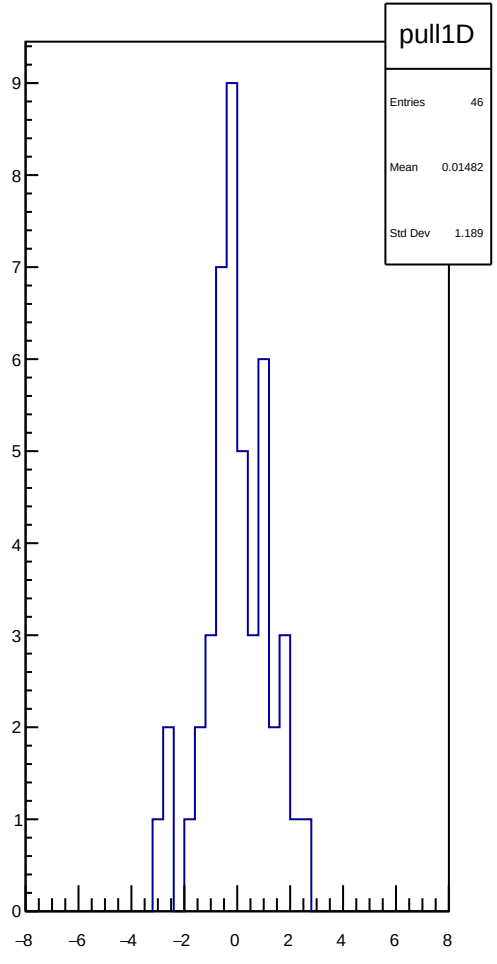

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 53.85 / 45
p0 420.5 ± 366.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 127.4
Std Dev 98.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.01555
Std Dev 1.082
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

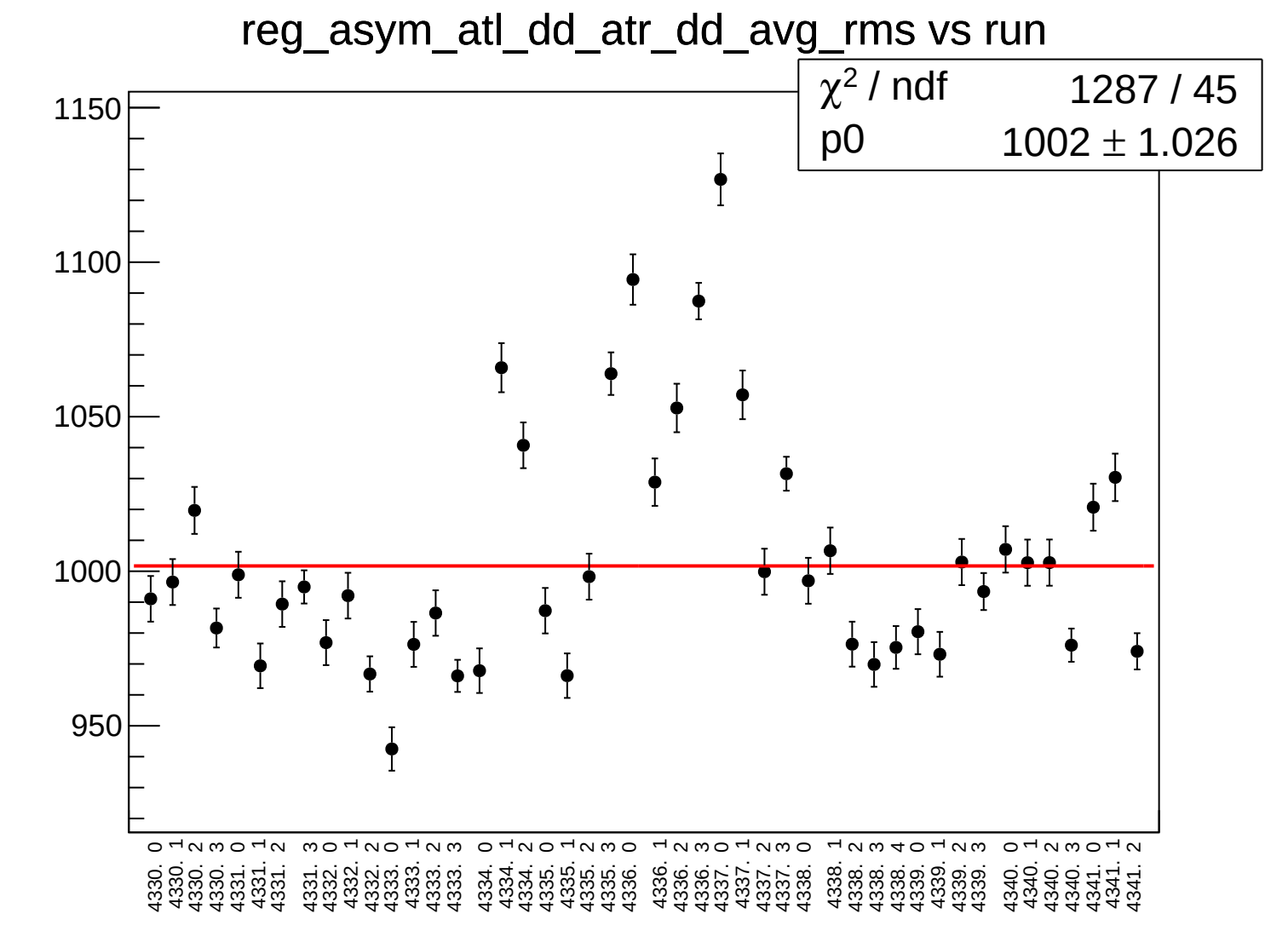

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 846.3 / 45
p0 252.9 ± 0.259
275
270
265
260
255
250
245
240
235
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

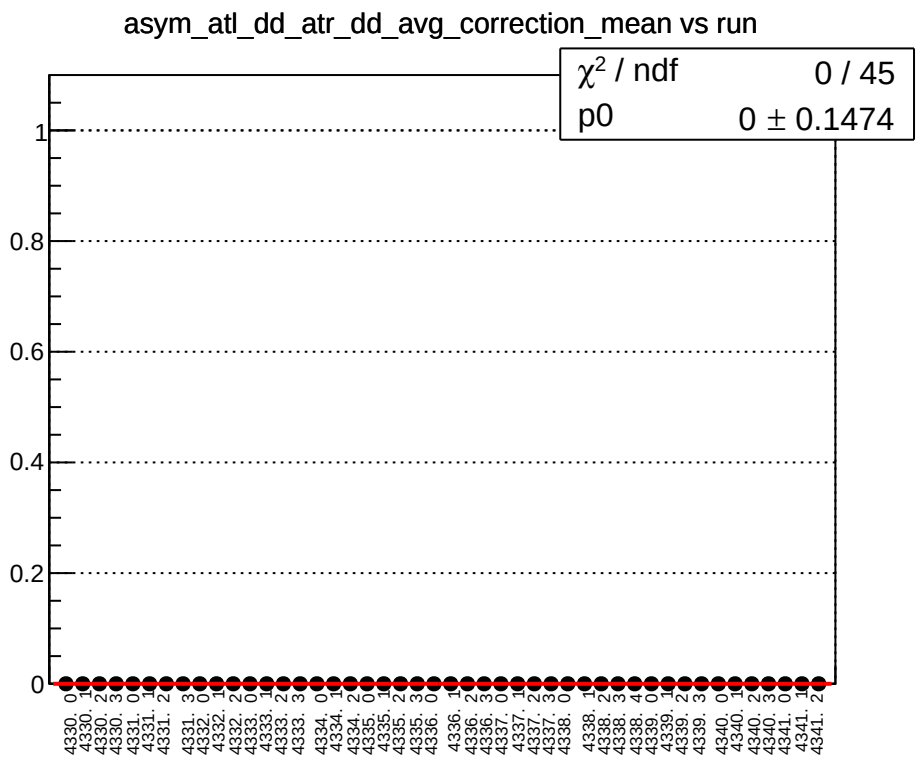

asym_atr1l2_dd_mean vs run
χ² / ndf 52.79 / 45
p0 −566.7 ± 553.4
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 194.8
Std Dev 168.2
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.01803
Std Dev 1.071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

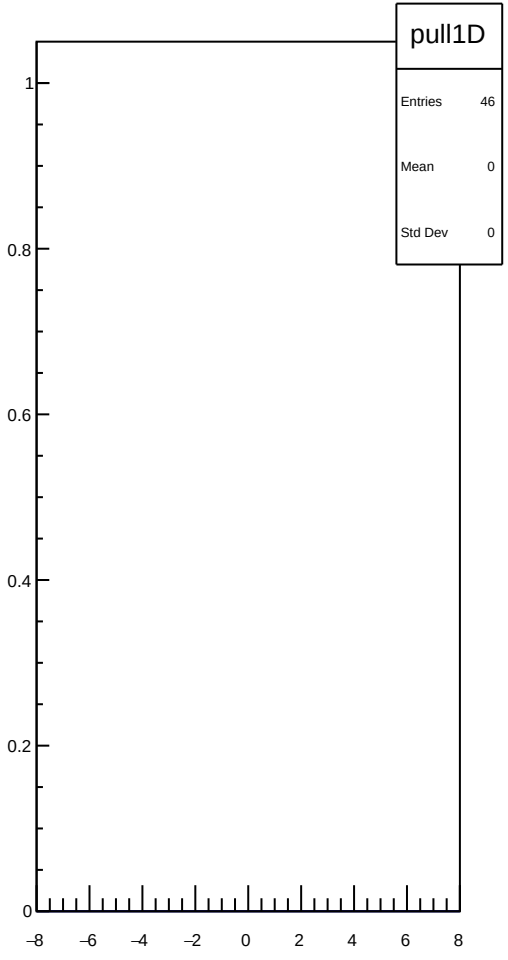

asym_atr1l2_dd_rms vs run
χ² / ndf 182.3 / 45
p0 382.3 ± 0.3913
400
395
390
385
380
375
370
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

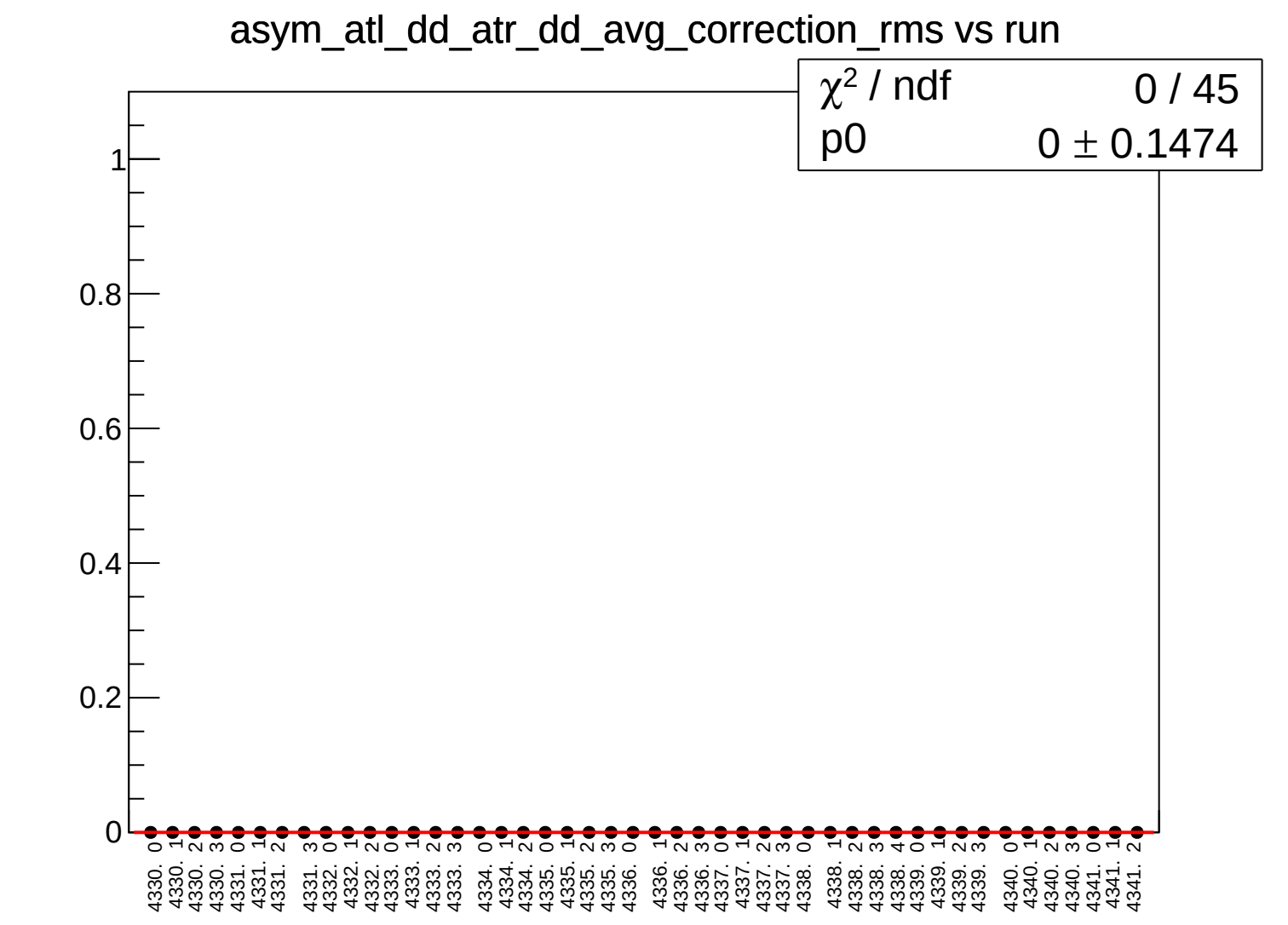

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.09 / 45
p0 −75.92 ± 1451
pull
Entries 46
Mean 212
Std Dev 186.5

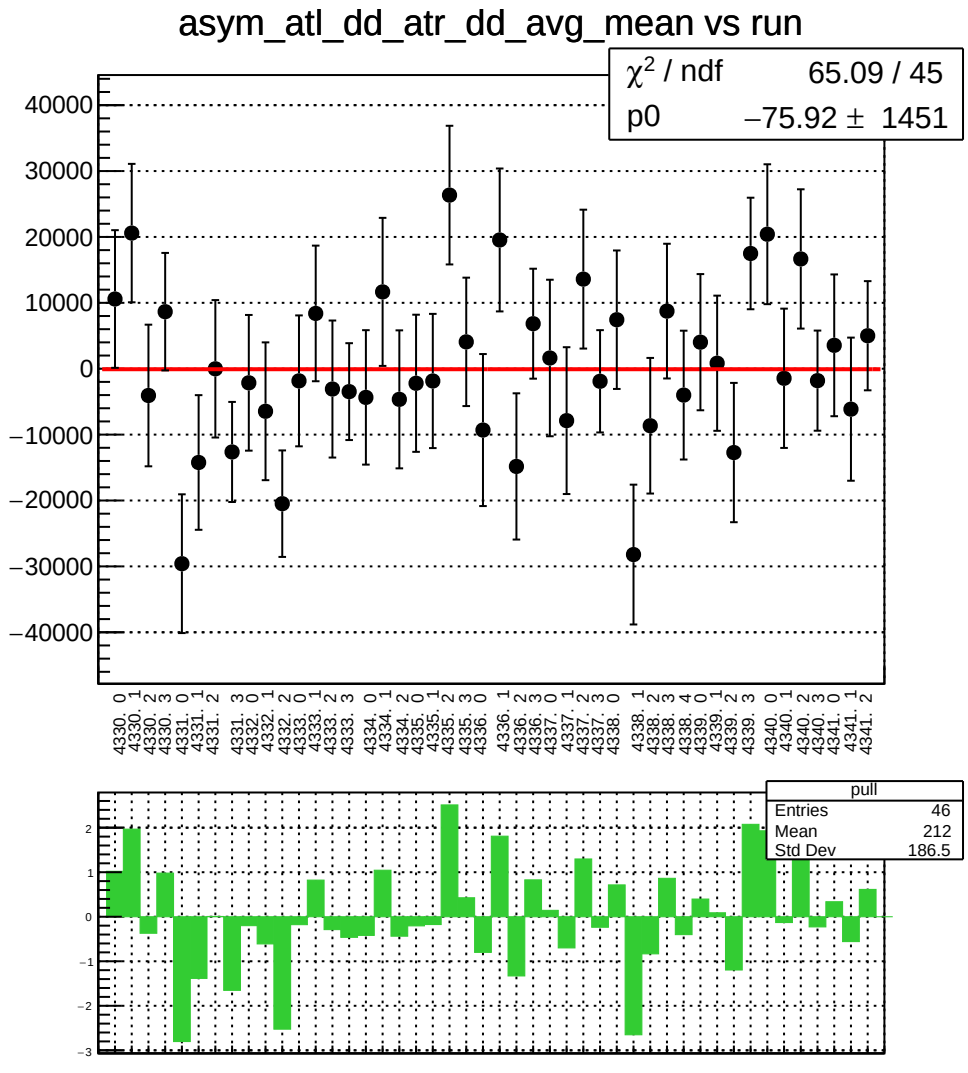

pull1D
Entries 46
Mean 0.01482
Std Dev 1.189

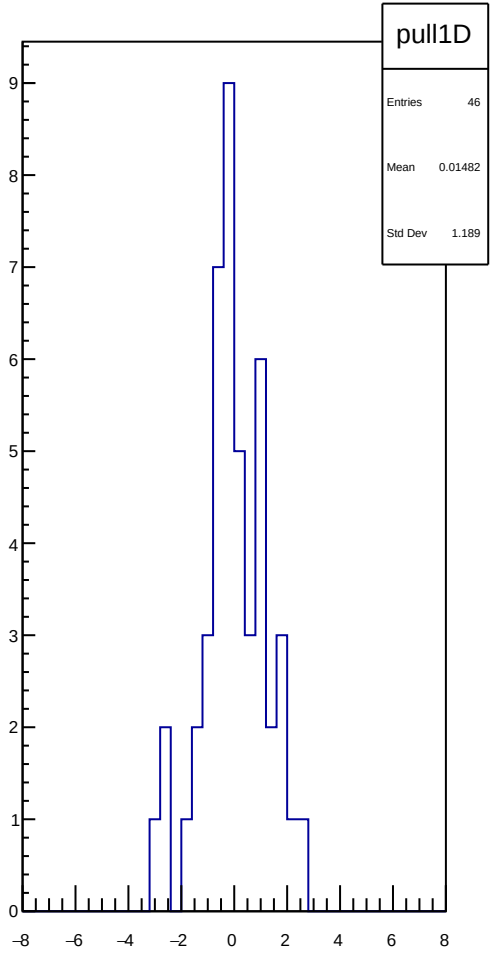

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1287 / 45
p0 1002 ± 1.026
1150
1100
1050
1000
950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

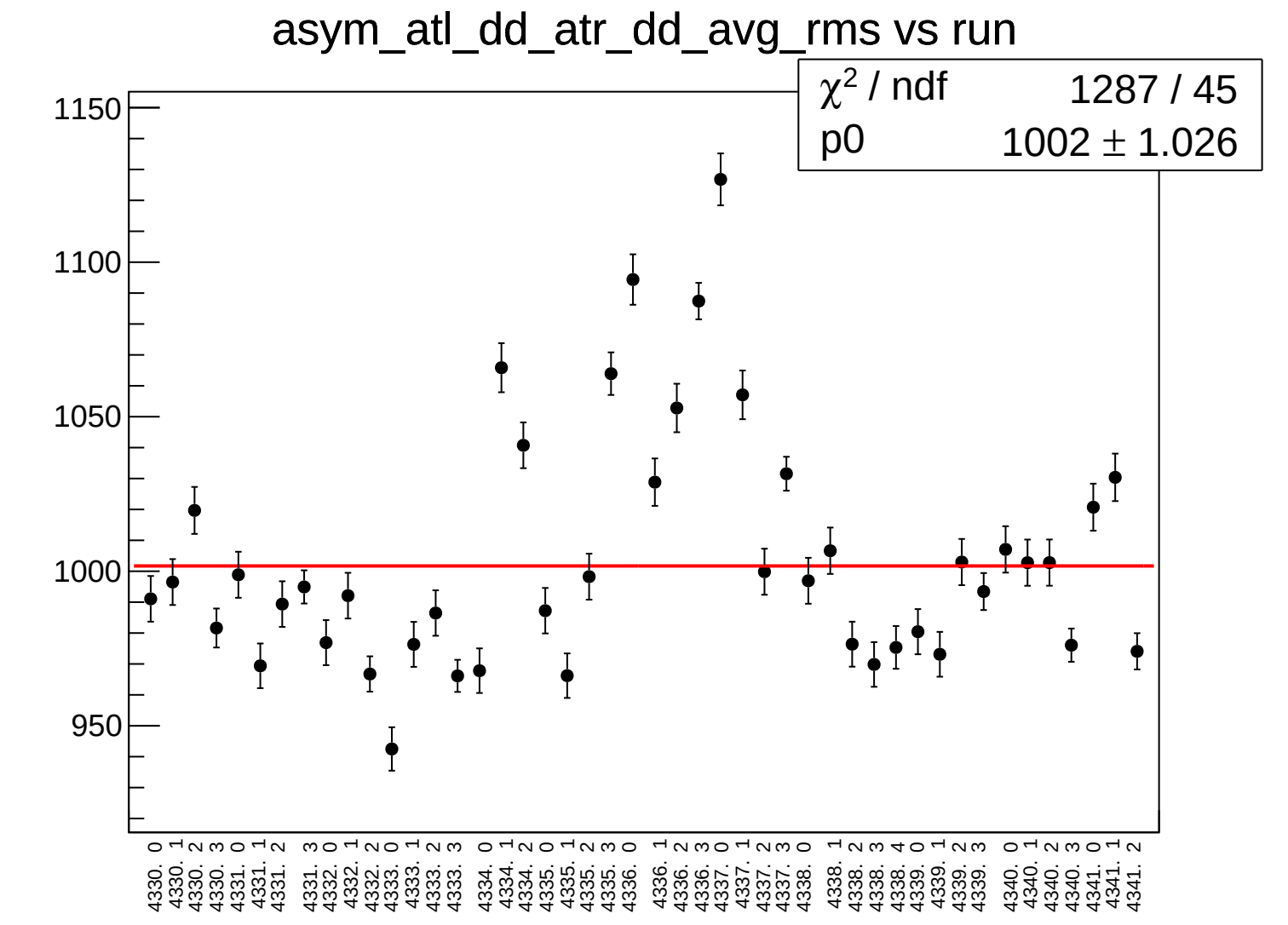

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

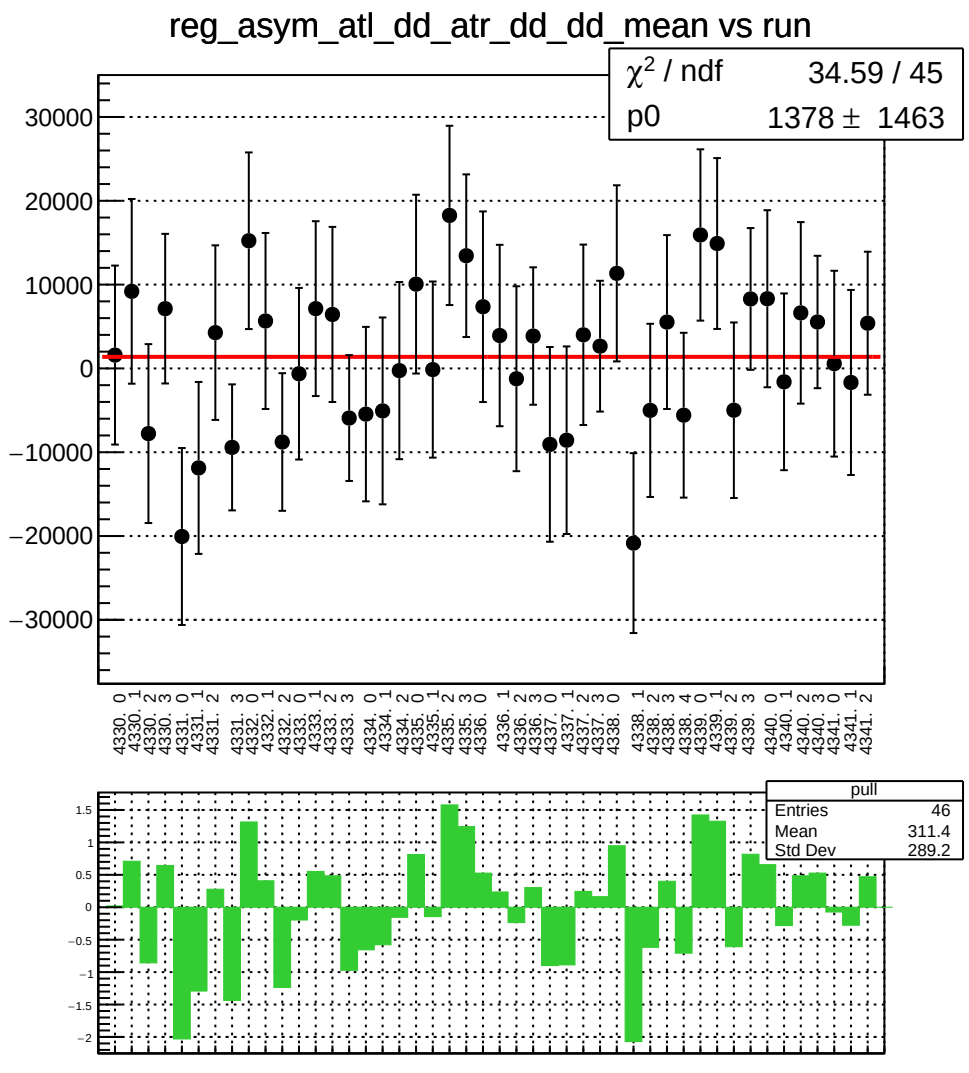

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

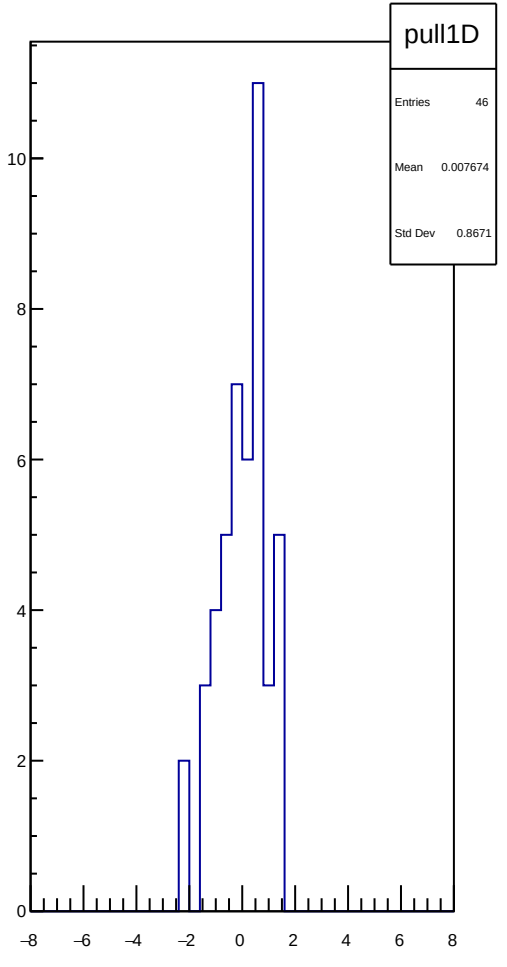

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

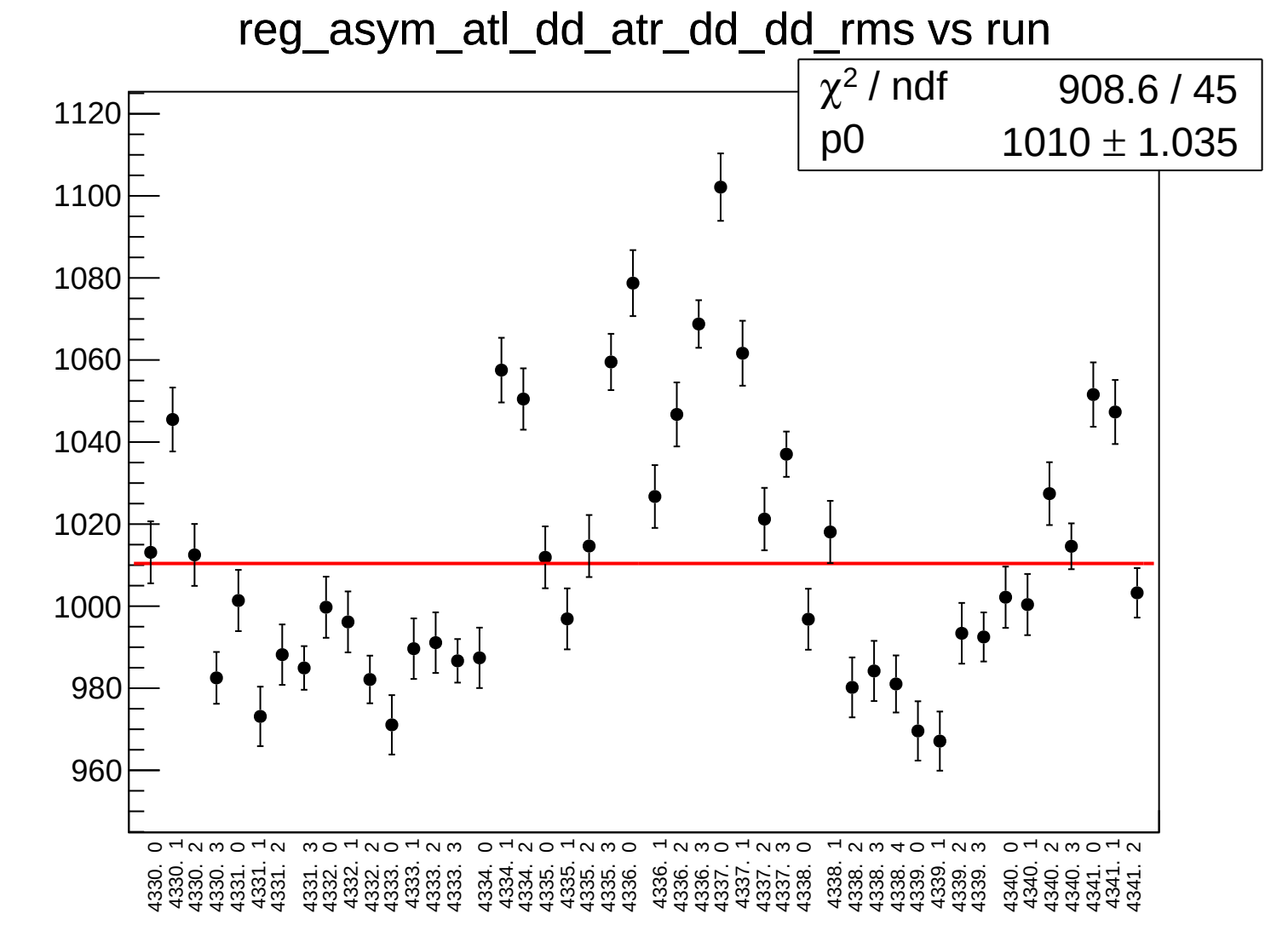

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 65.09 / 45
p0 −75.92 ± 1451
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 212
Std Dev 186.5
2
1
0
−1
−2
−3

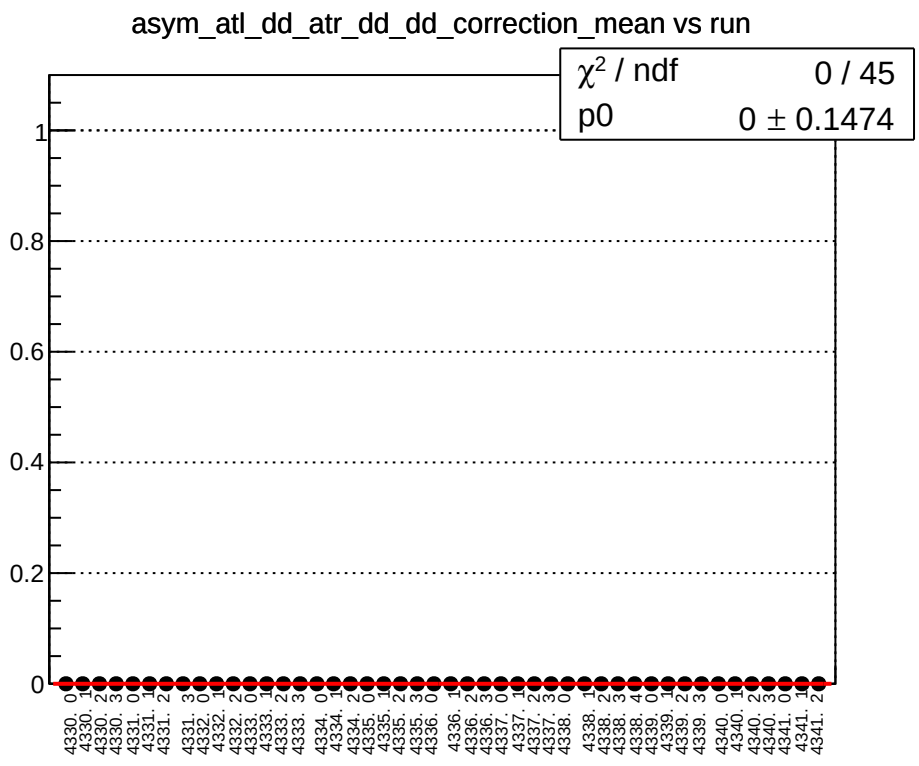

pull1D
Entries 46
Mean 0.01482
Std Dev 1.189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

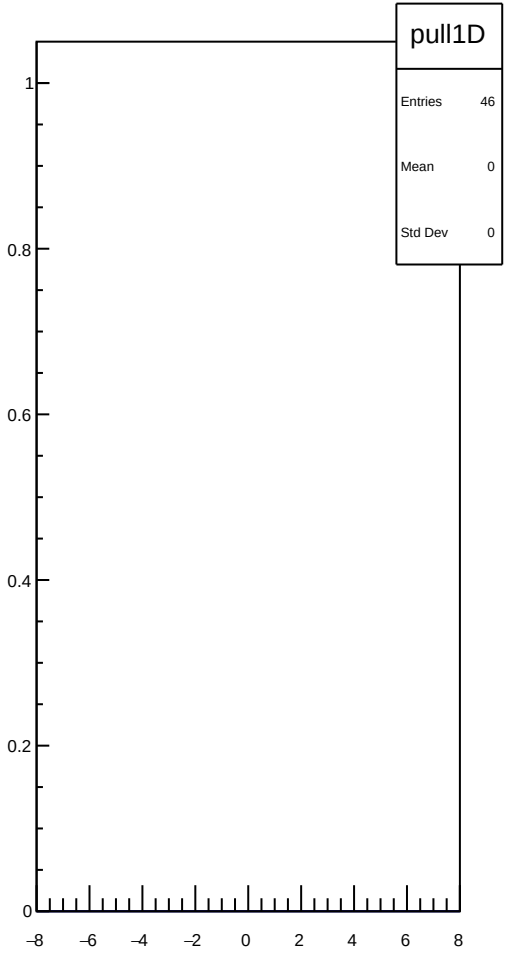

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1287 / 45
p0 1002 ± 1.026
1150
1100
1050
1000
950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

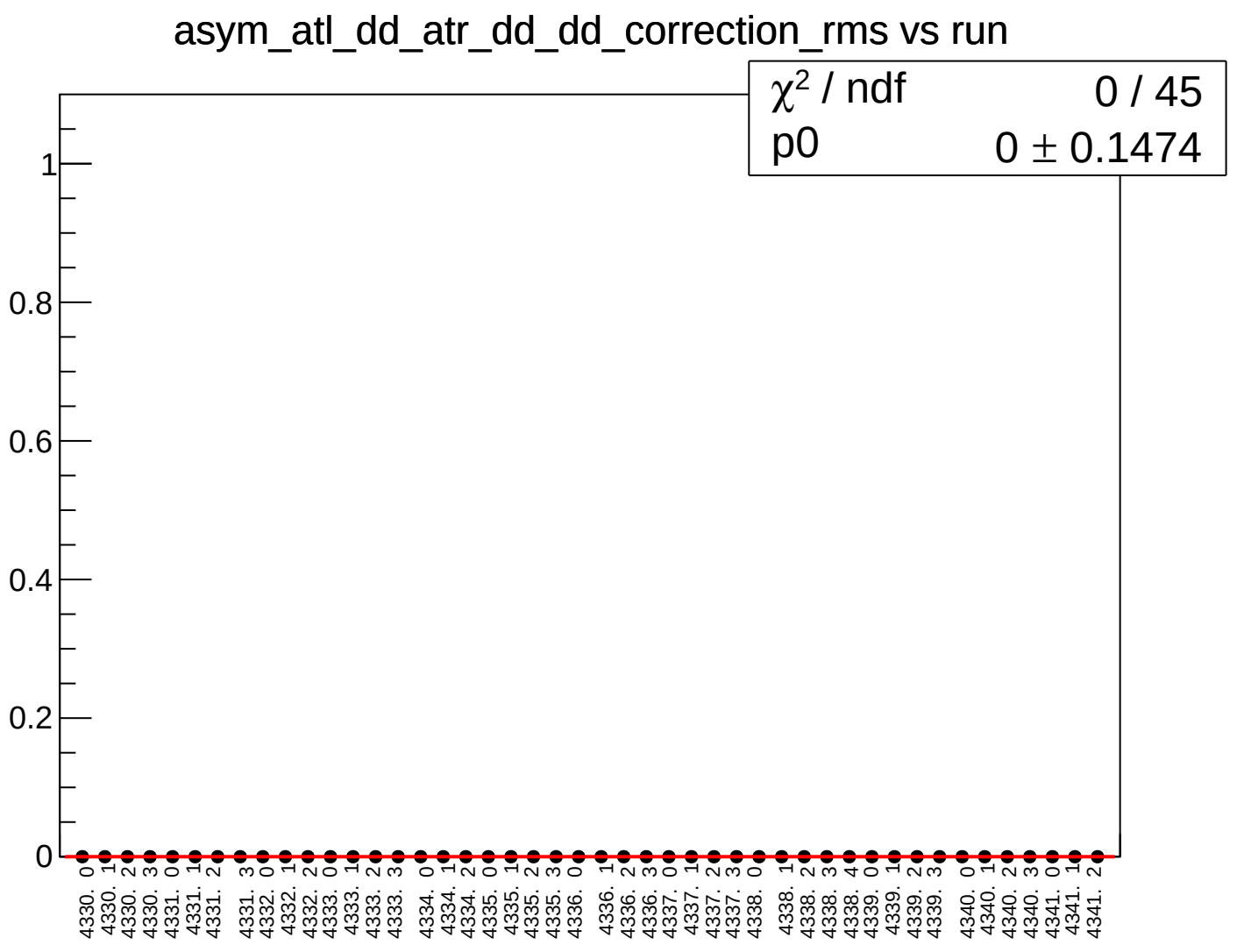

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.59 / 45
p0 1378 ± 1463
30000
20000
10000
0
−10000
−20000
−30000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 311.4
Std Dev 289.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

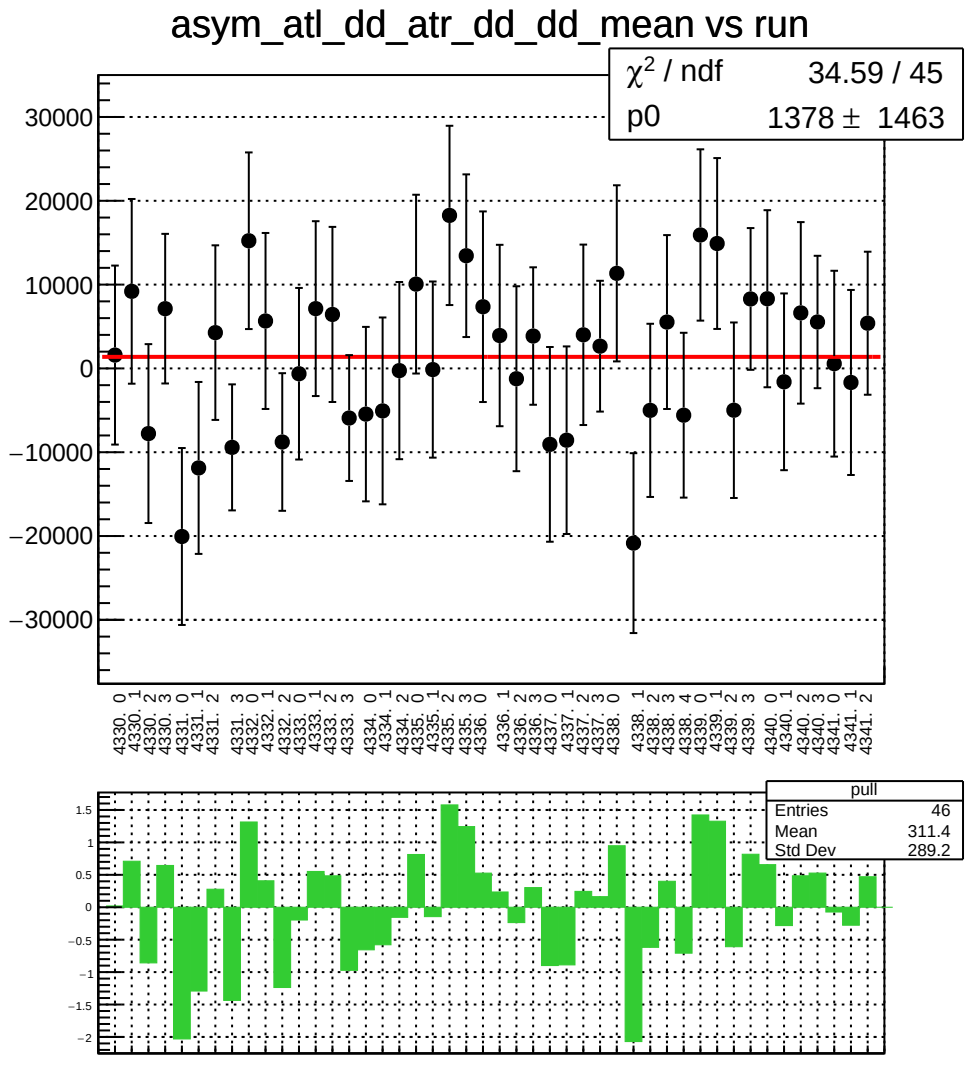

pull1D
Entries 46
Mean 0.007674
Std Dev 0.8671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

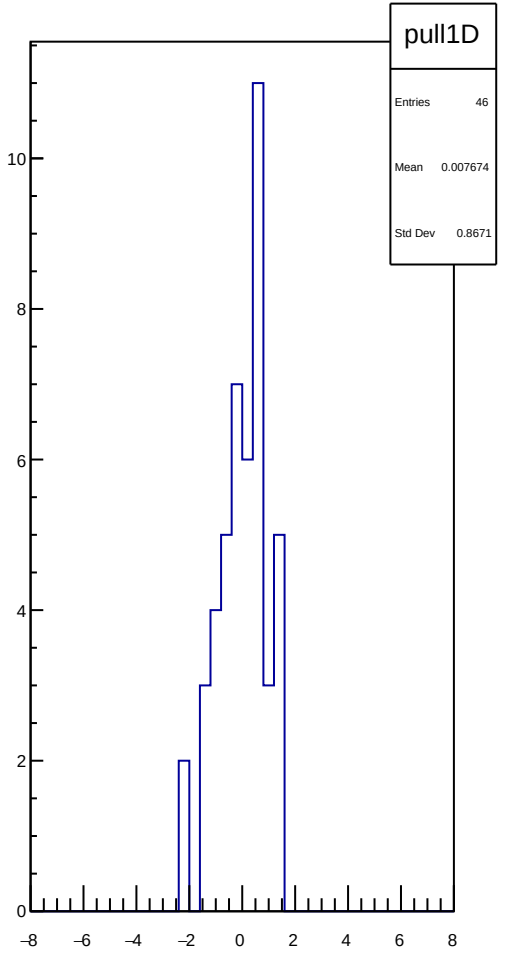

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 908.6 / 45
p0 1010 ± 1.035
1120
1100
1080
1060
1040
1020
1000
980
960
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

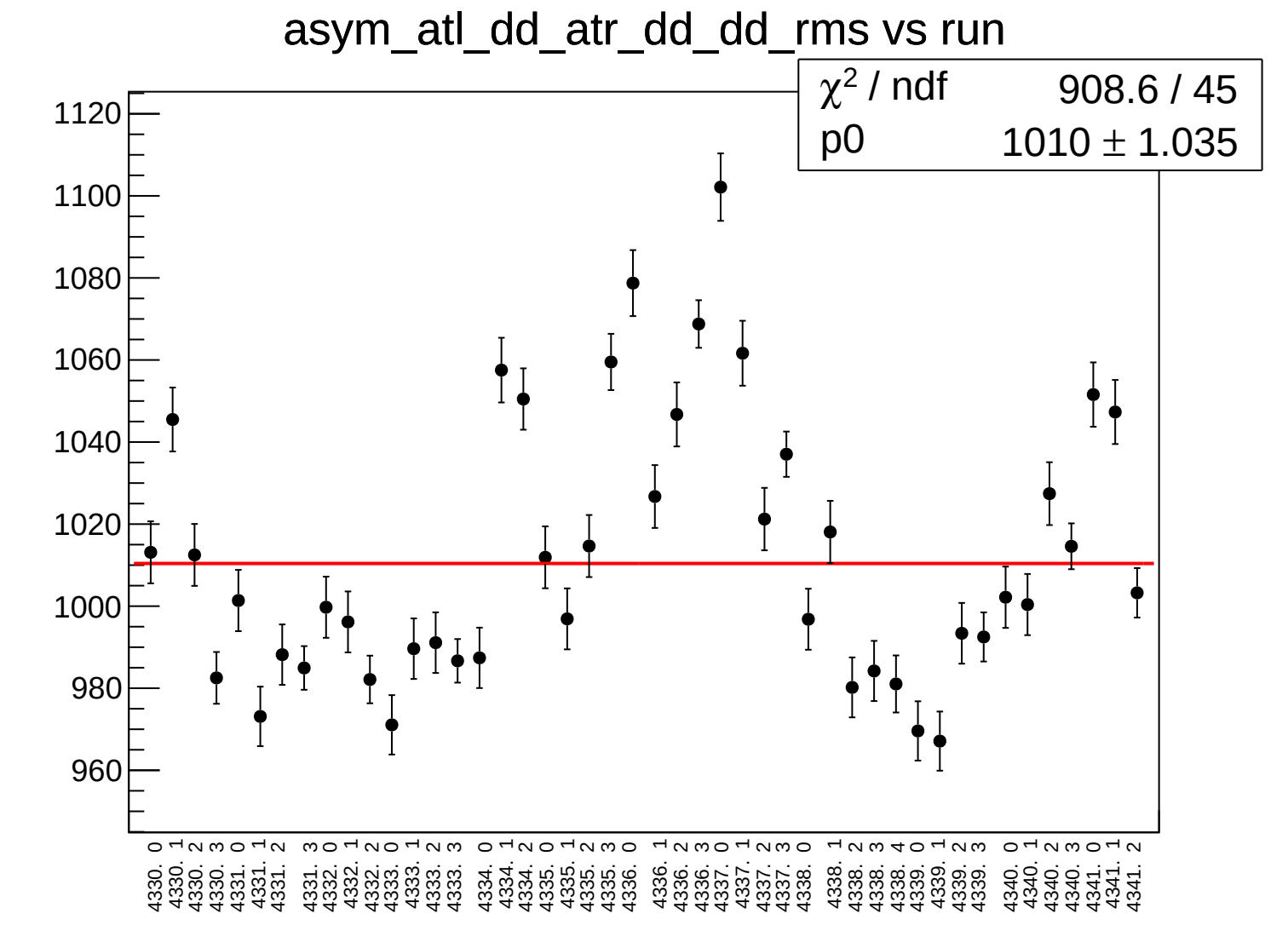

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

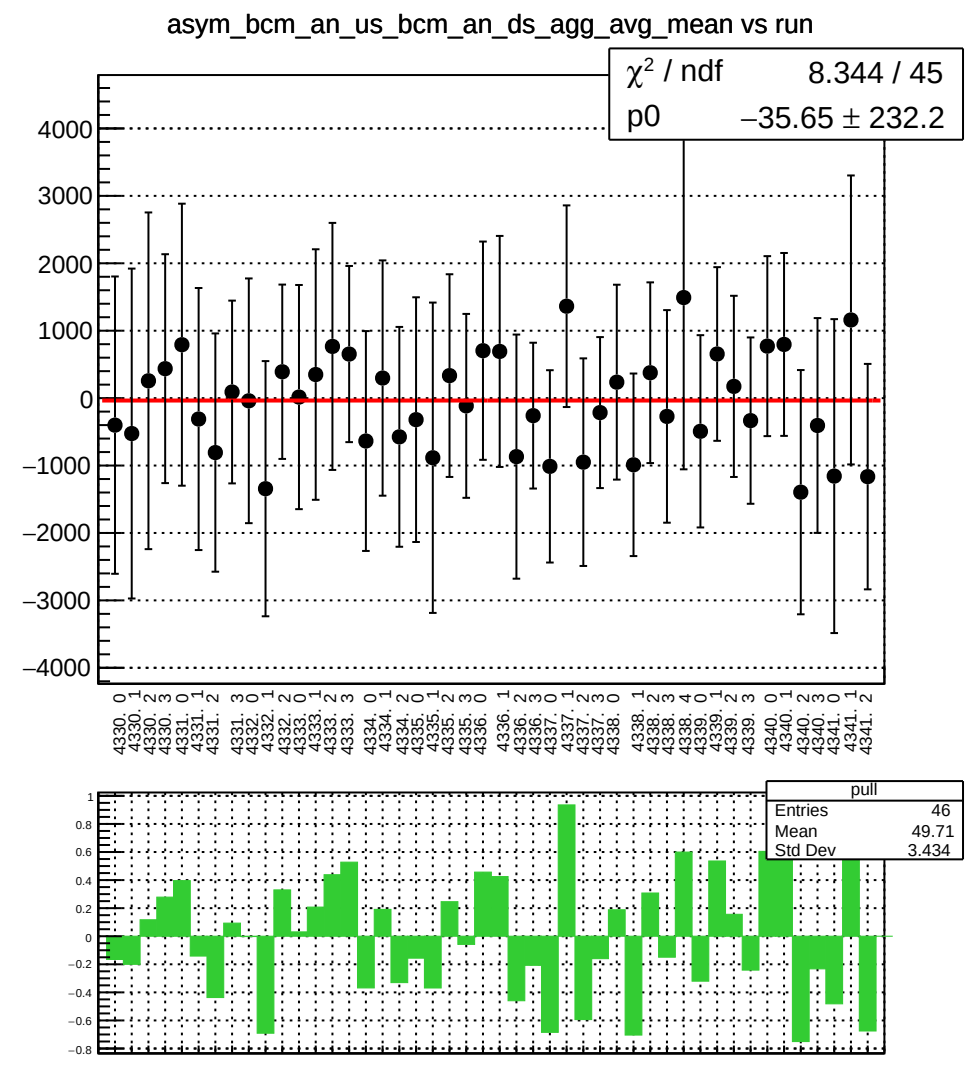

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

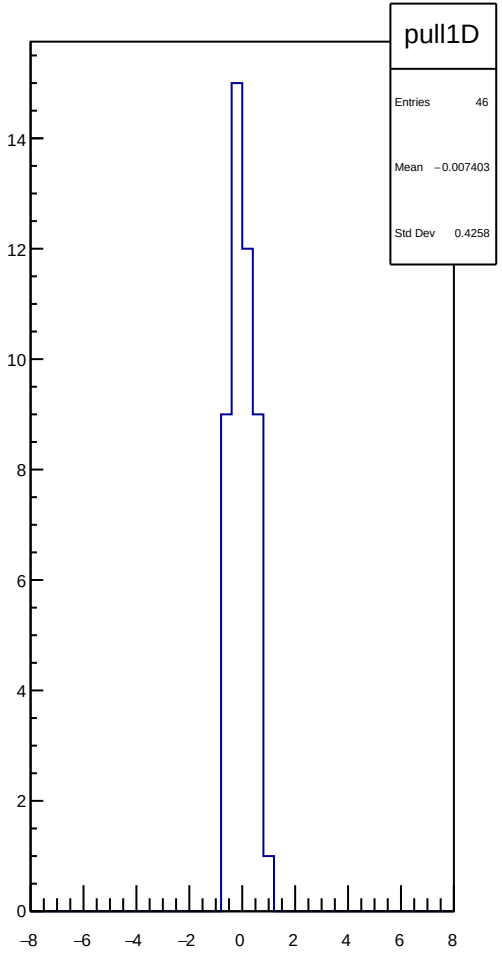

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 45
p0 0 ± 0.1474
1
0.8
0.6
0.4
0.2
0
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

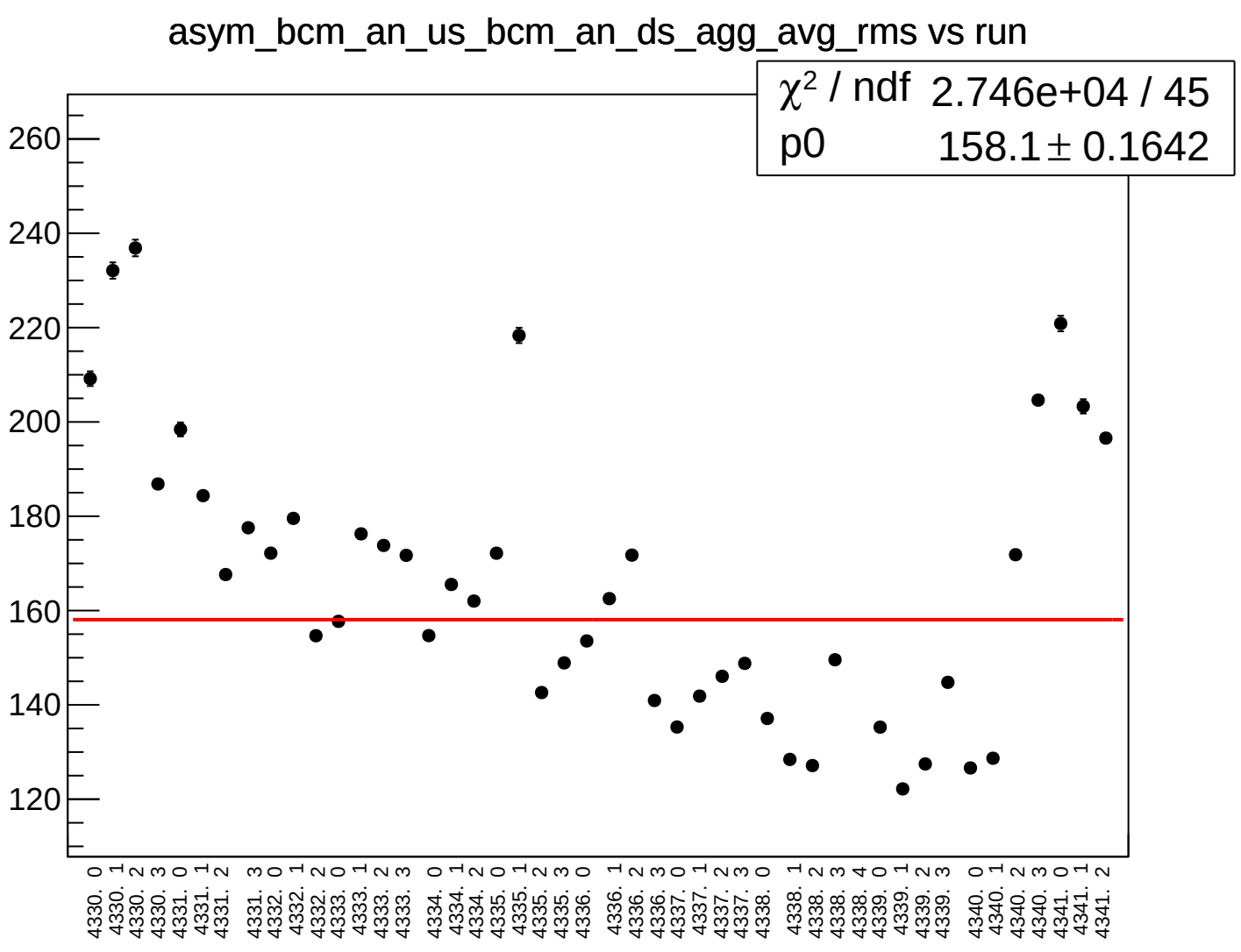

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.59 / 45
p0 1378 ± 1463
30000
20000
10000
0
−10000
−20000
−30000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 311.4
Std Dev 289.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

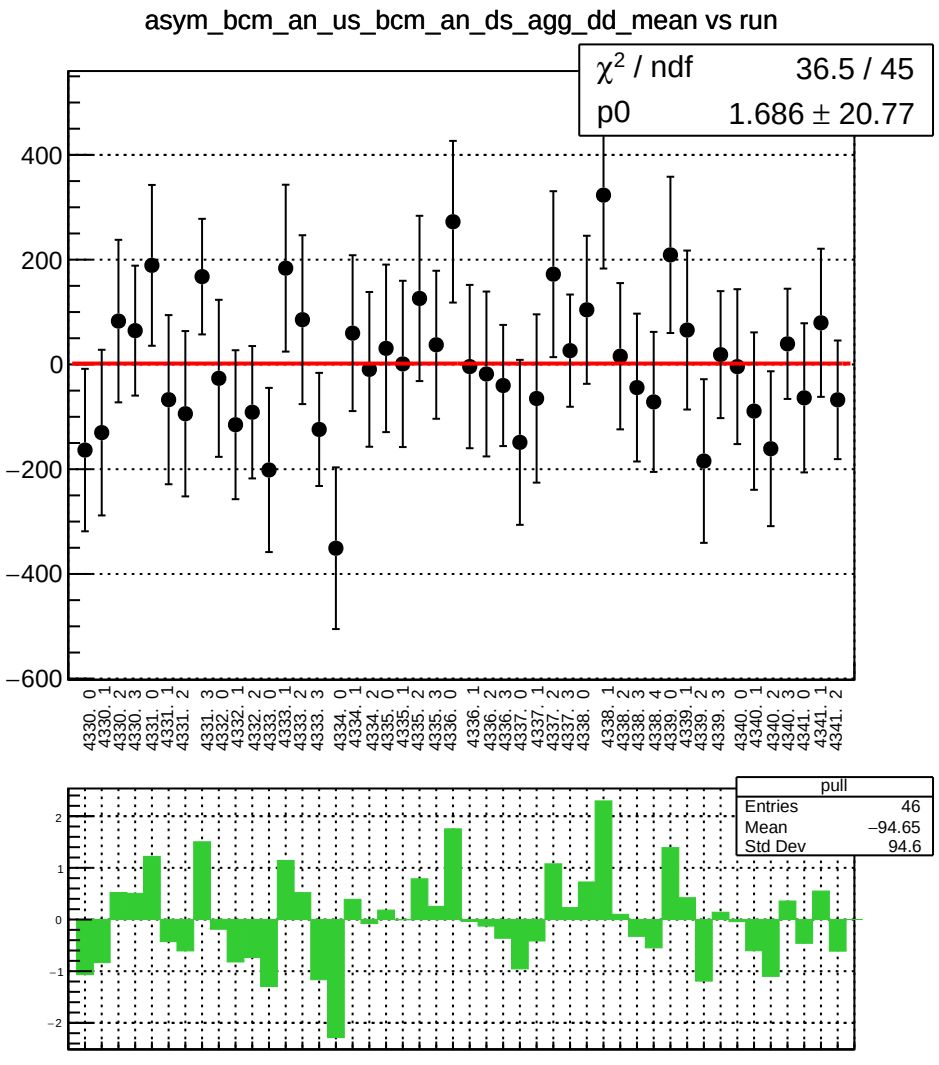

pull1D
Entries 46
Mean 0.007674
Std Dev 0.8671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

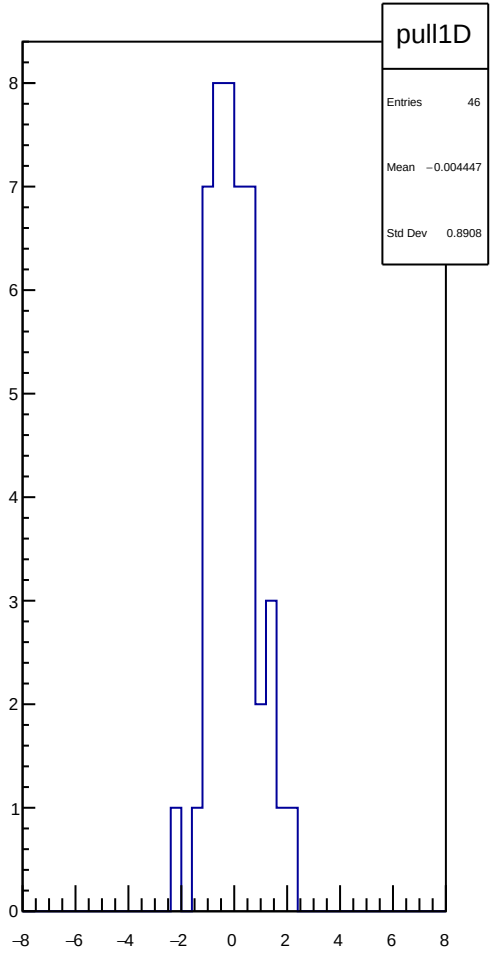

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 908.6 / 45
p0 1010 ± 1.035
1120
1100
1080
1060
1040
1020
1000
980
960
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

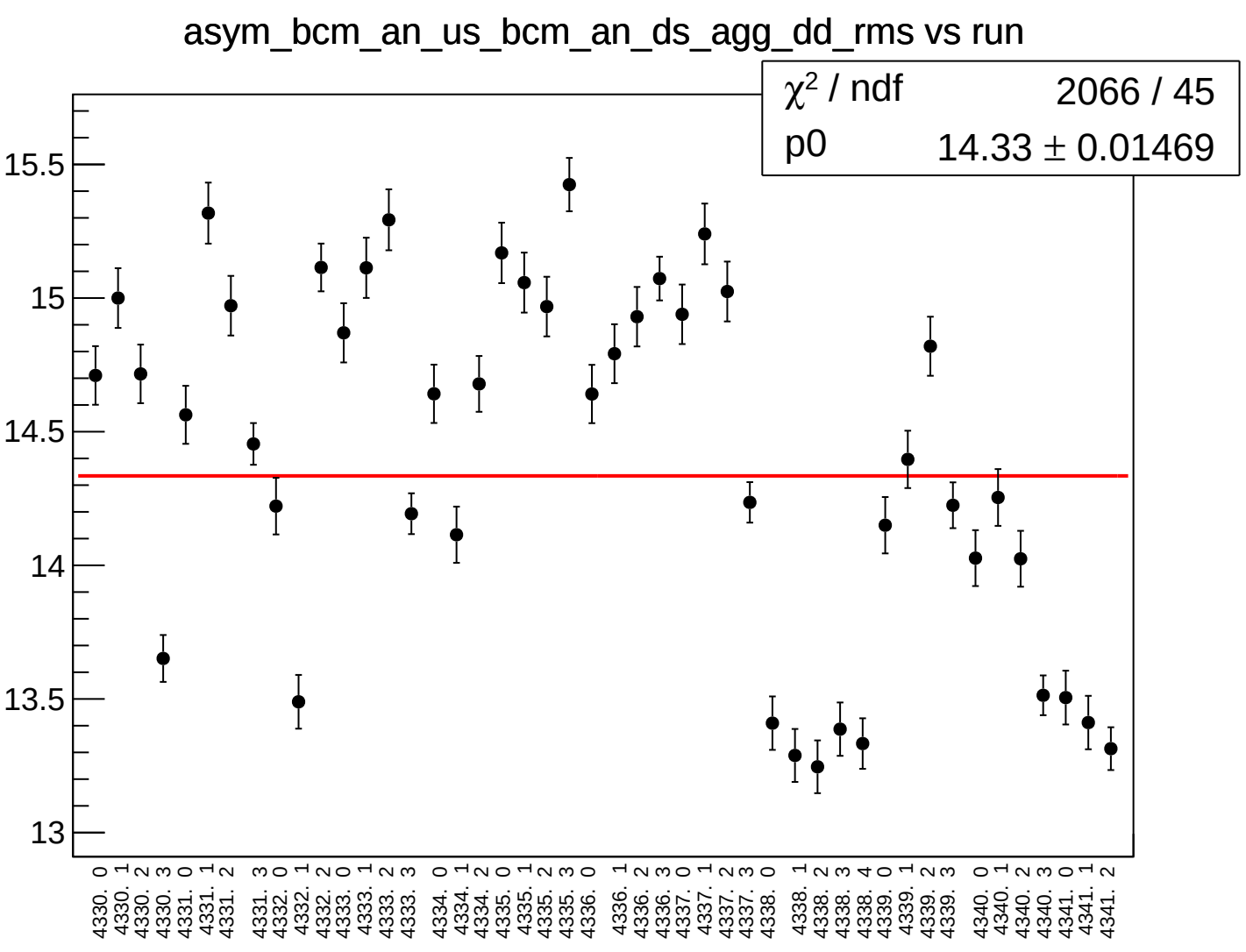

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.344 / 45
p0 −35.65 ± 232.2
pull
Entries 46
Mean 49.71
Std Dev 3.434

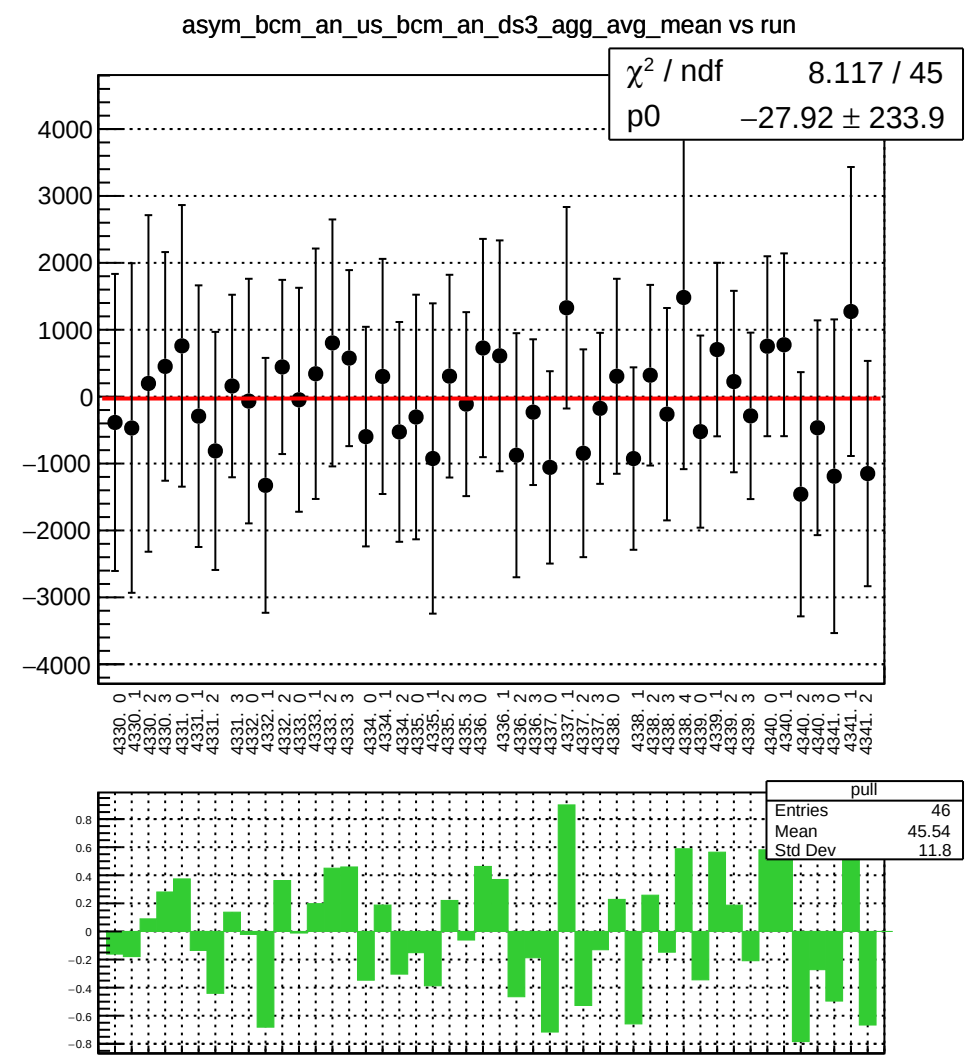

pull1D
Entries 46
Mean −0.007403
Std Dev 0.4258

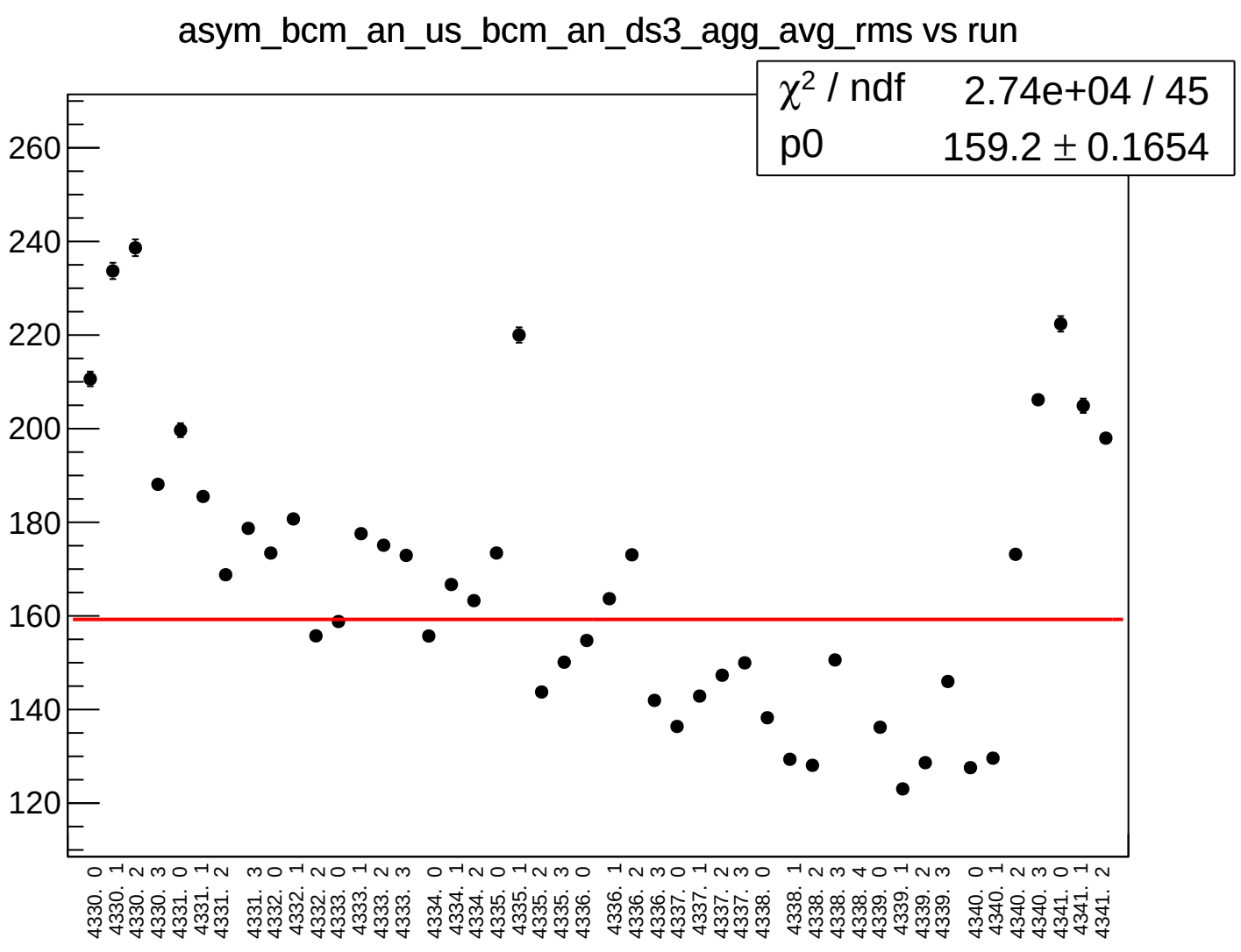

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.746e+04 / 45
p0 158.1 ± 0.1642
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.5 / 45
p0 1.686 ± 20.77
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −94.65
Std Dev 94.6
2
1
0
−1
−2


pull1D
Entries 46
Mean −0.004447
Std Dev 0.8908
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_dd_rms vs run
χ² / ndf 2066 / 45
p0 14.33 ± 0.01469
15.5
15
14.5
14
13.5
13
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 8.117 / 45
p0 −27.92 ± 233.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 45.54
Std Dev 11.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.008435
Std Dev 0.42
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.74e+04 / 45
p0 159.2 ± 0.1654
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
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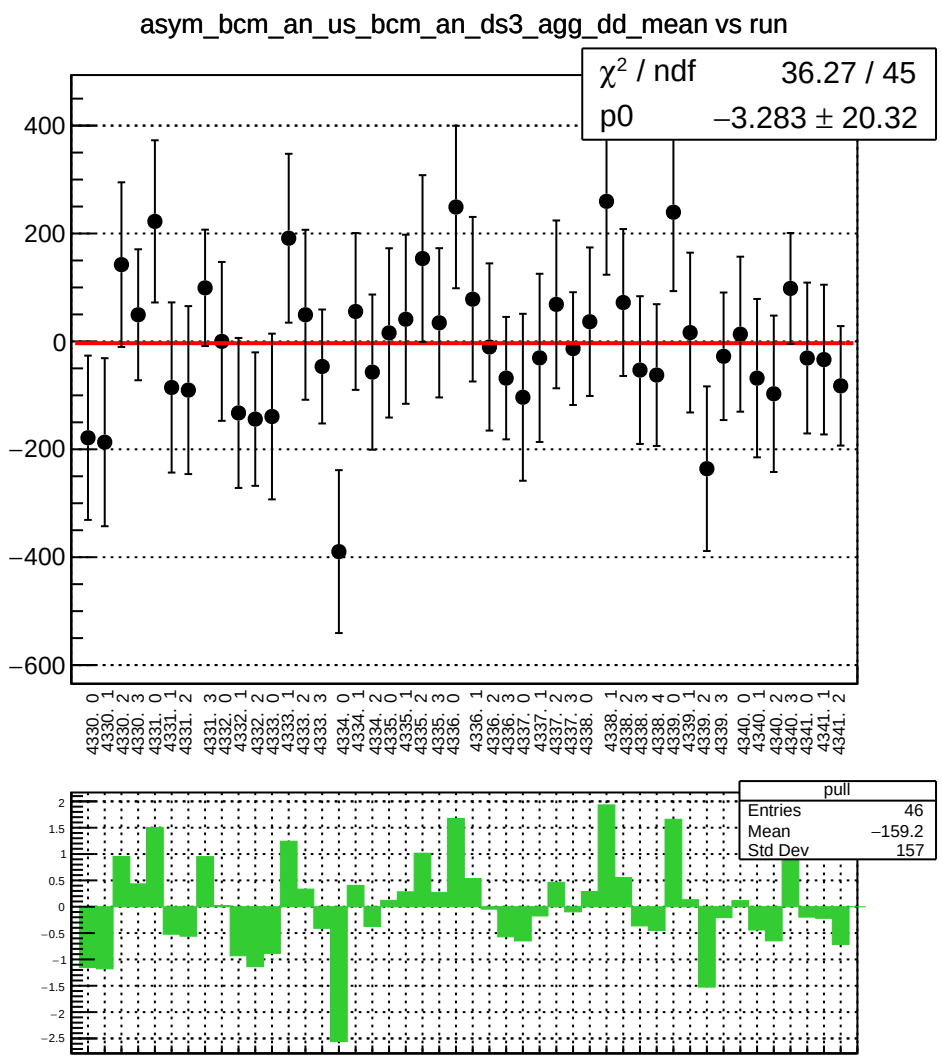
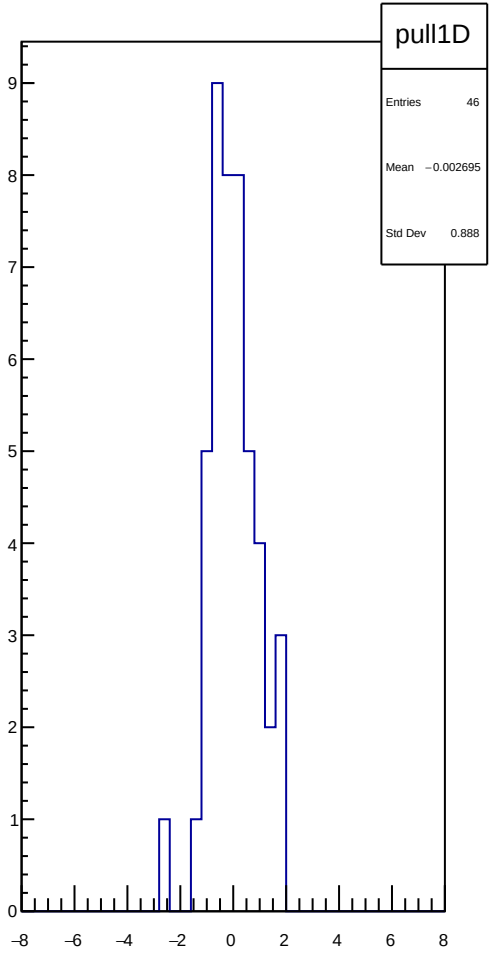
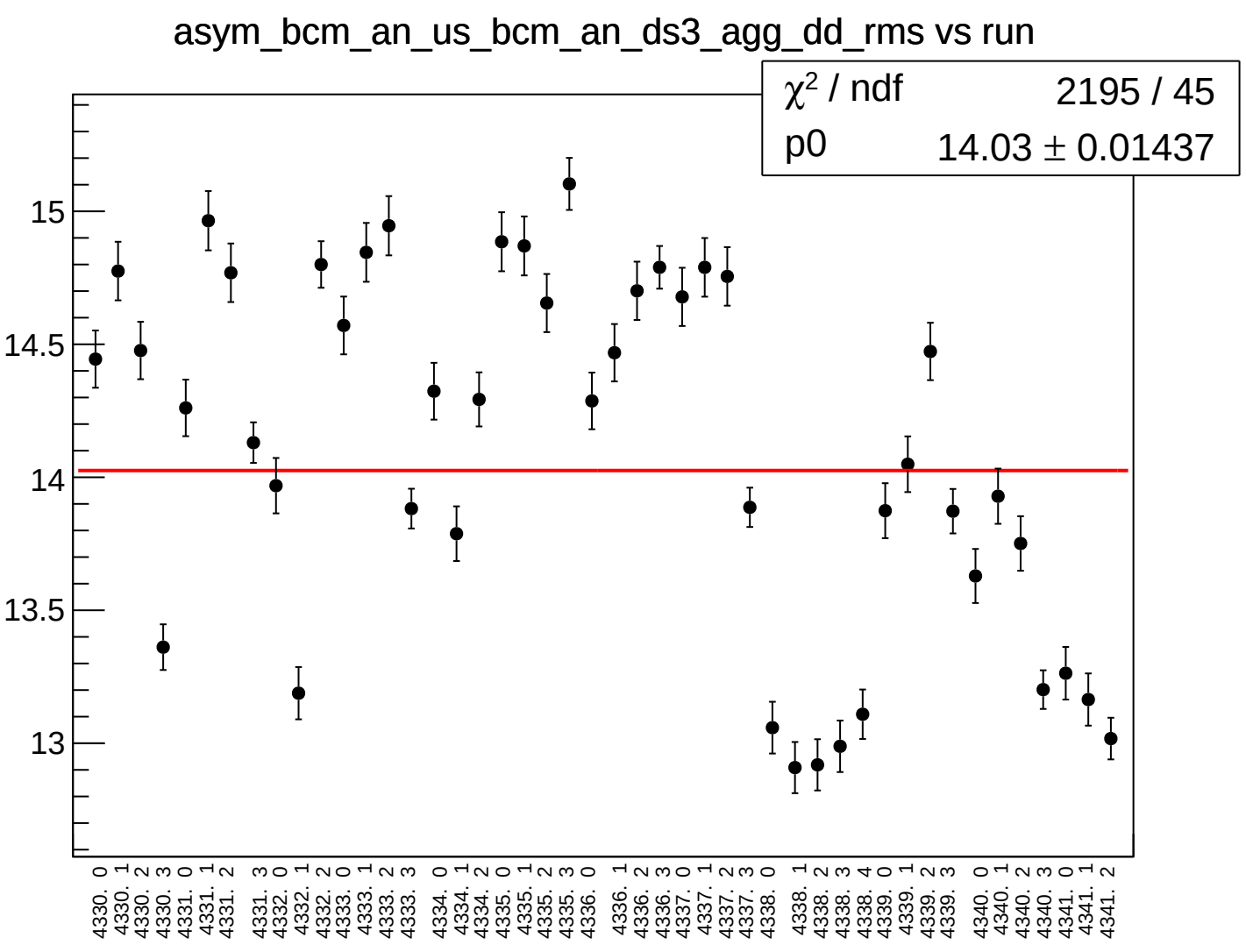
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 36.27 / 45
p0 −3.283 ± 20.32
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −159.2
Std Dev 157
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 46
Mean −0.002695
Std Dev 0.888
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_dd_rms vs run
χ² / ndf 2195 / 45
p0 14.03 ± 0.01437
15
14.5
14
13.5
13
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
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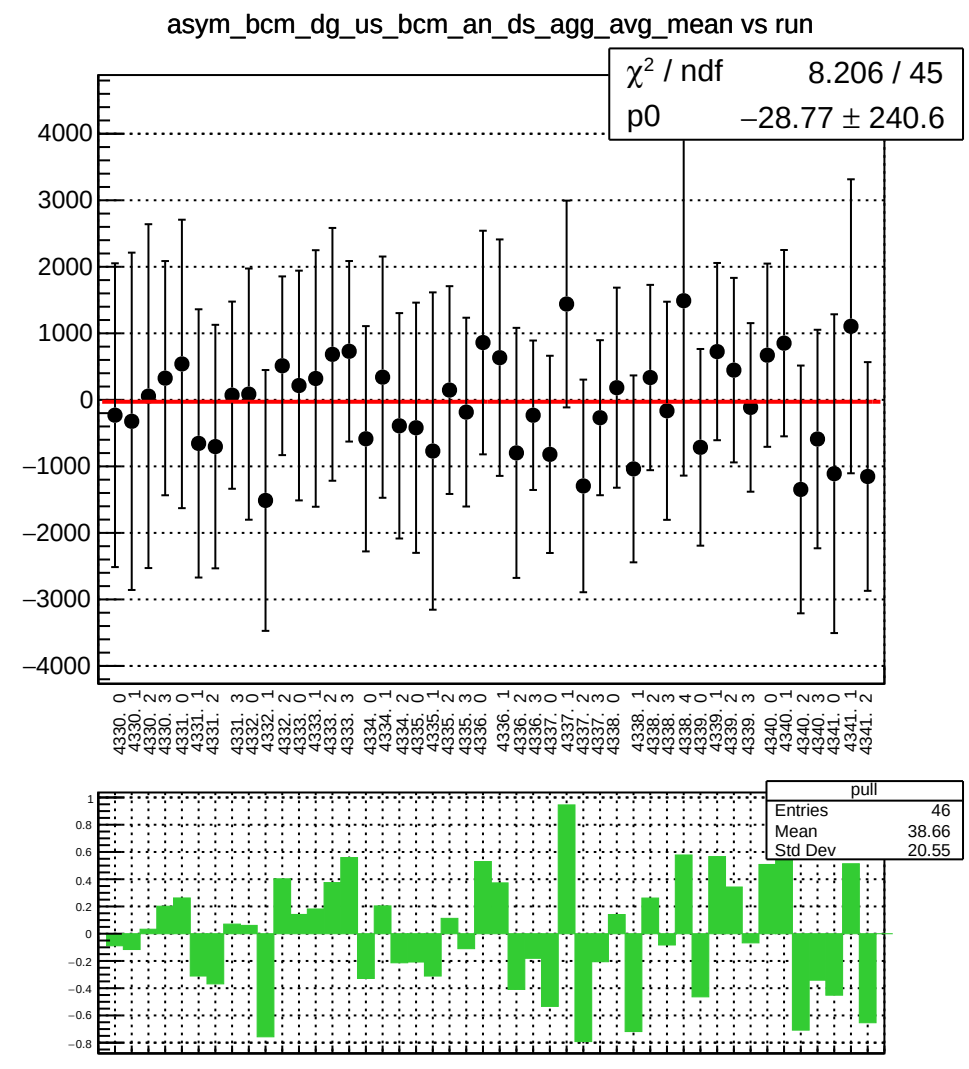
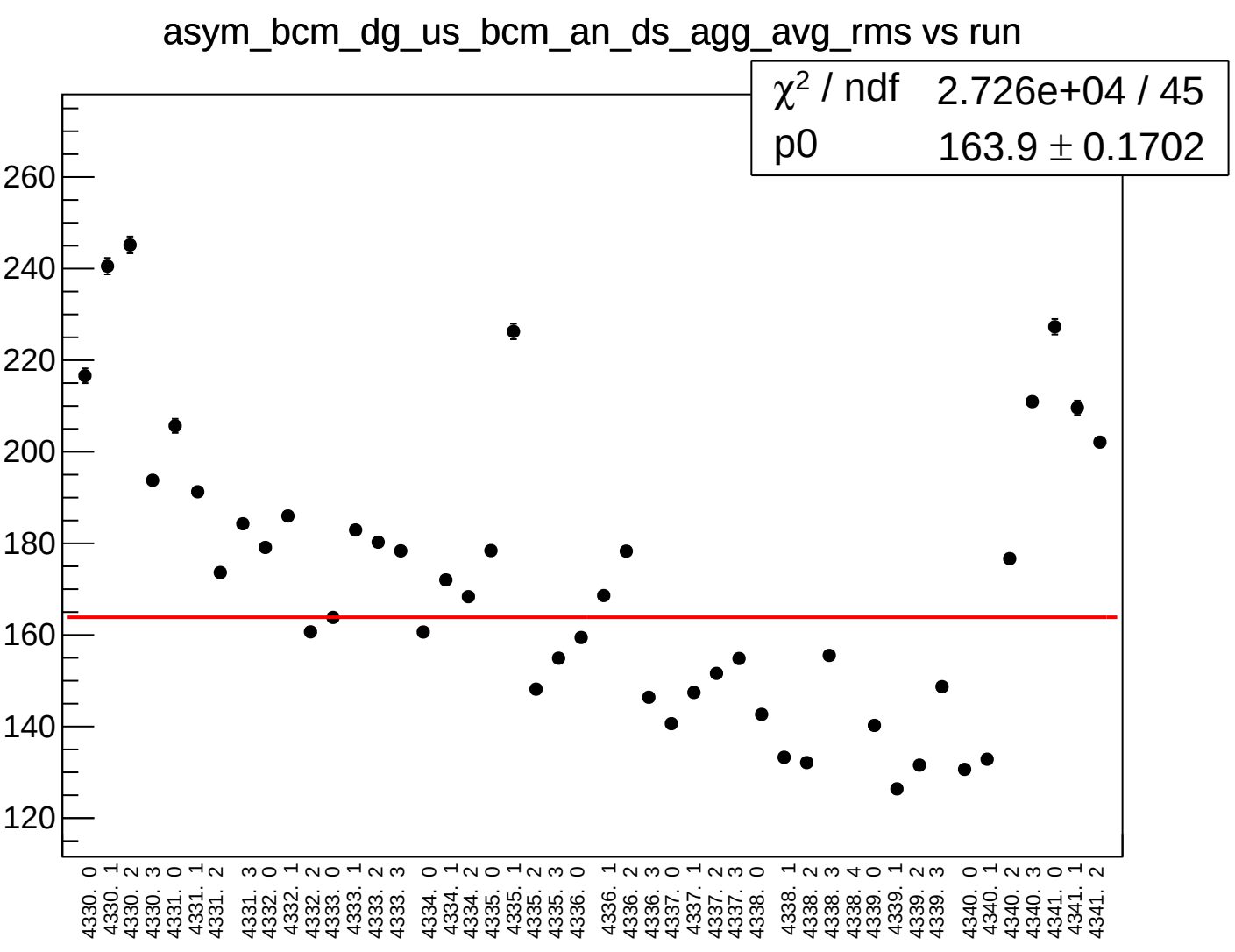
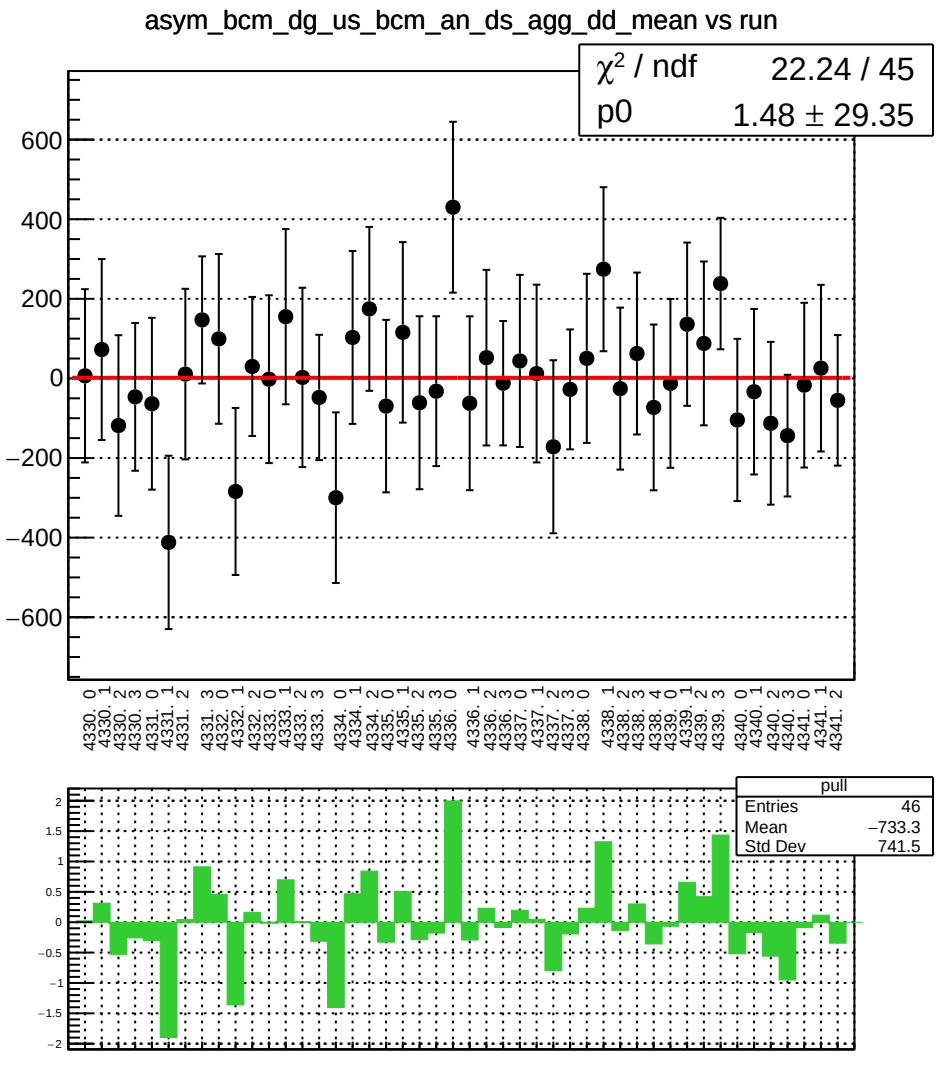
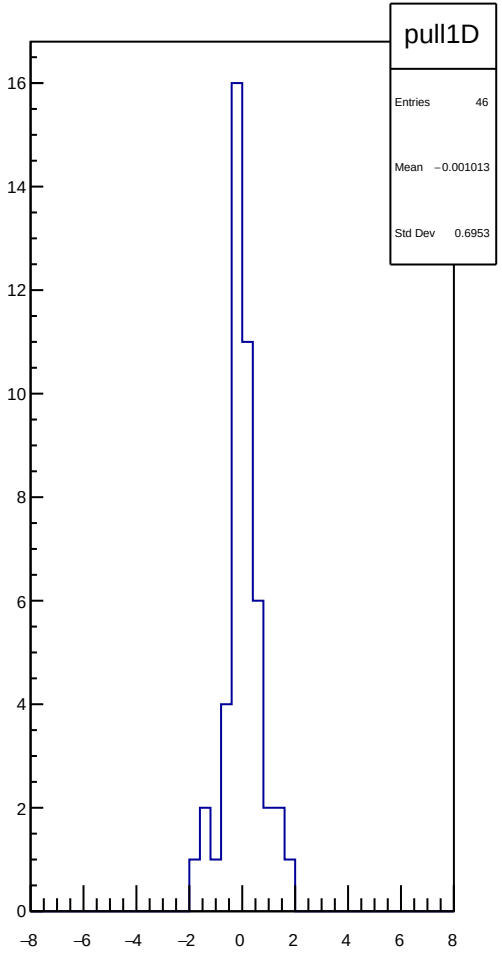
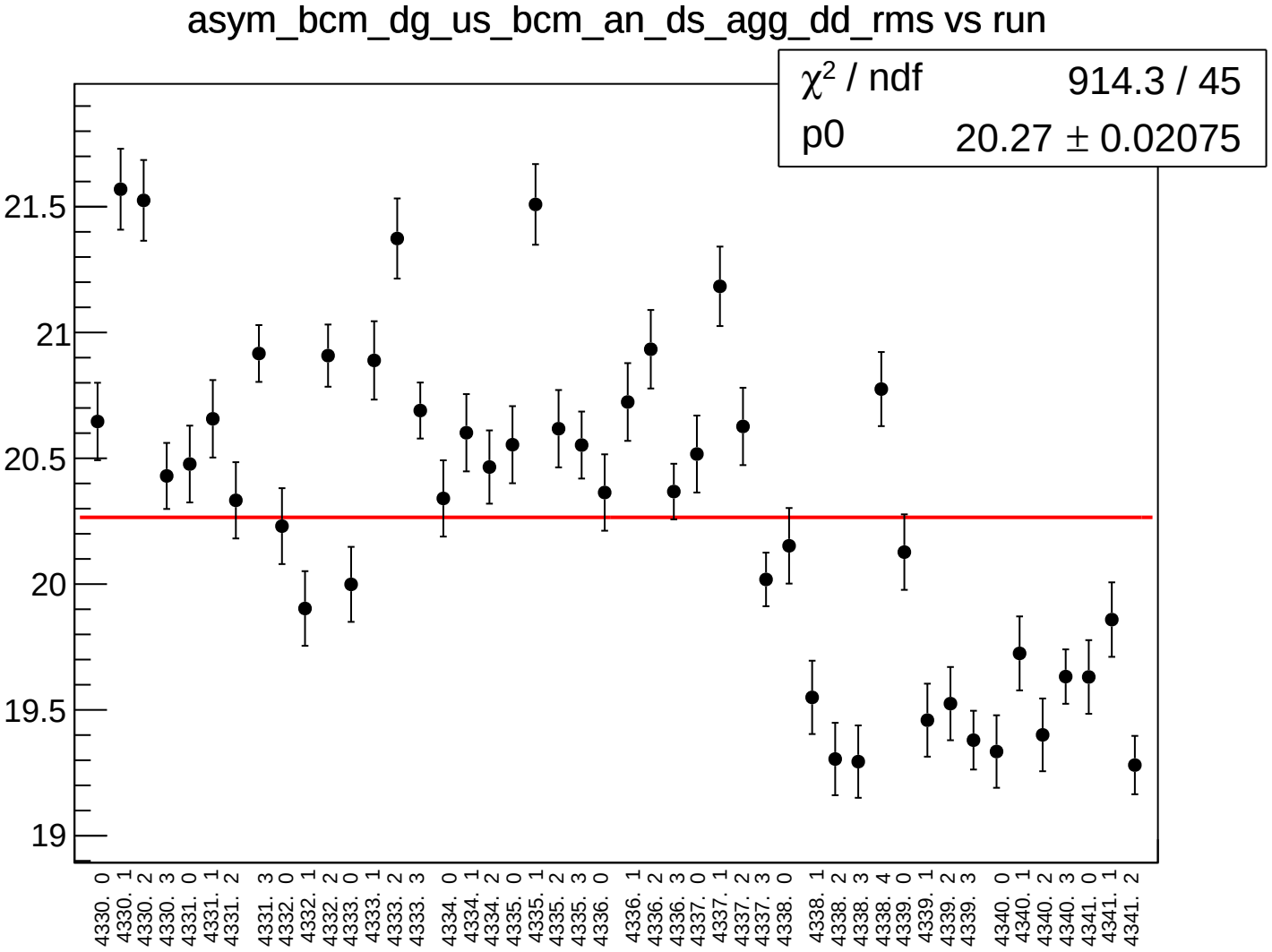
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

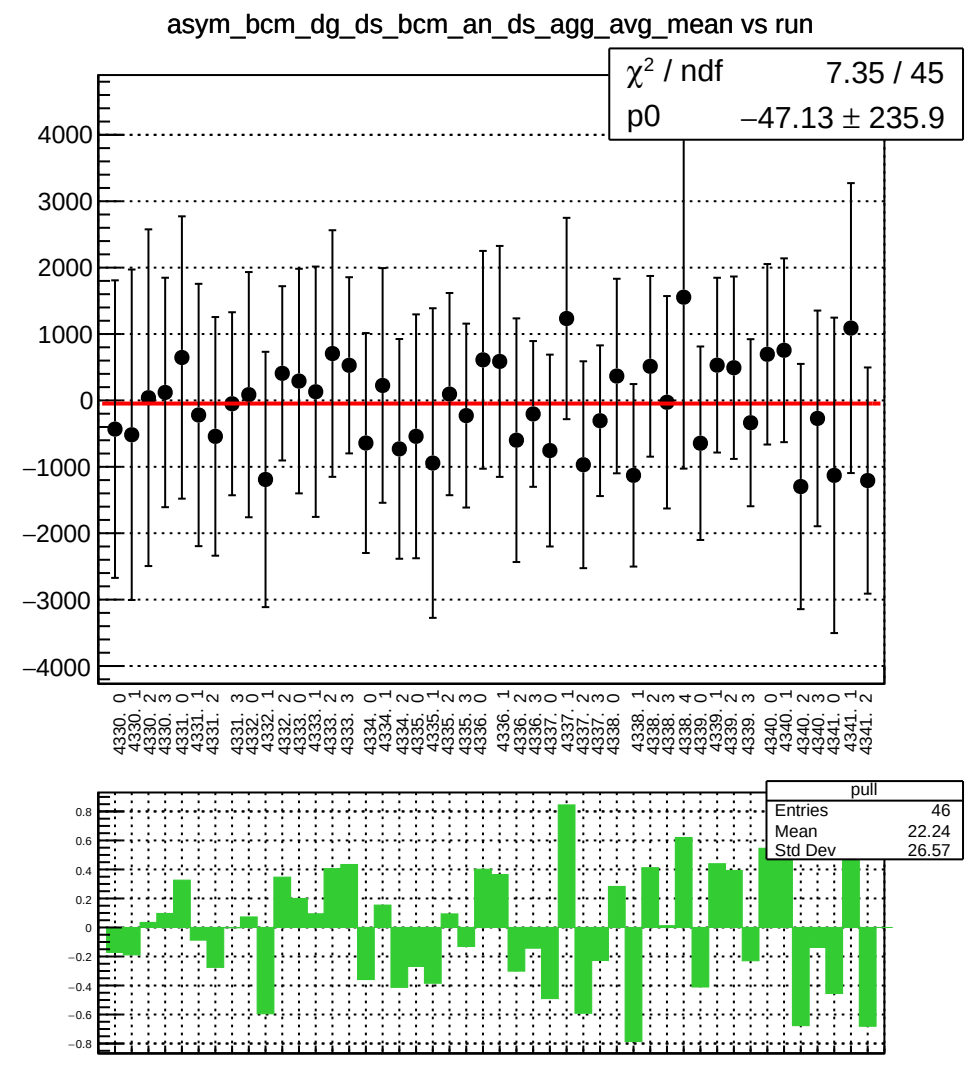

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.206 / 45
p0 −28.77 ± 240.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 38.66
Std Dev 20.55
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.009173
Std Dev 0.4223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

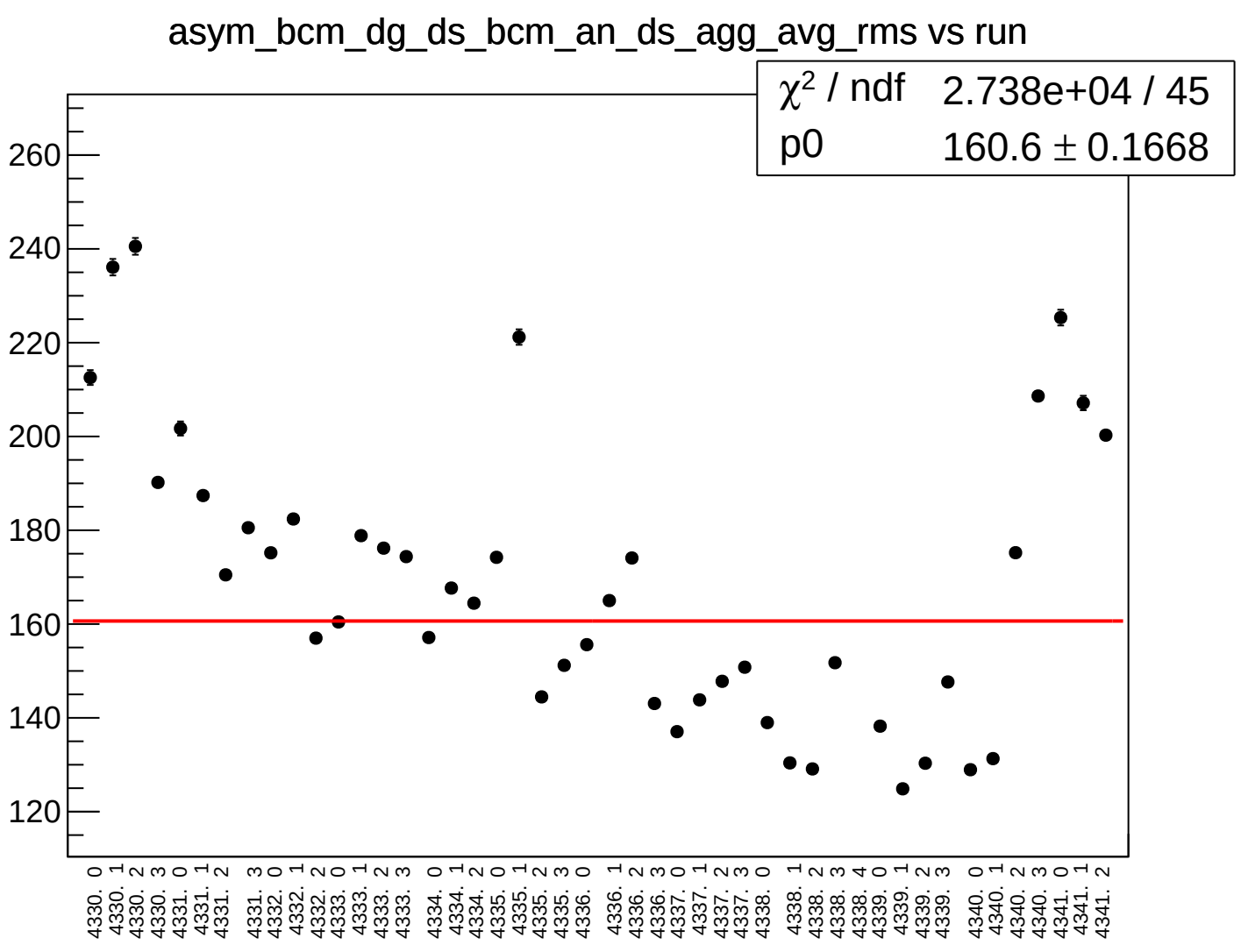

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.726e+04 / 45
p0 163.9 ± 0.1702
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

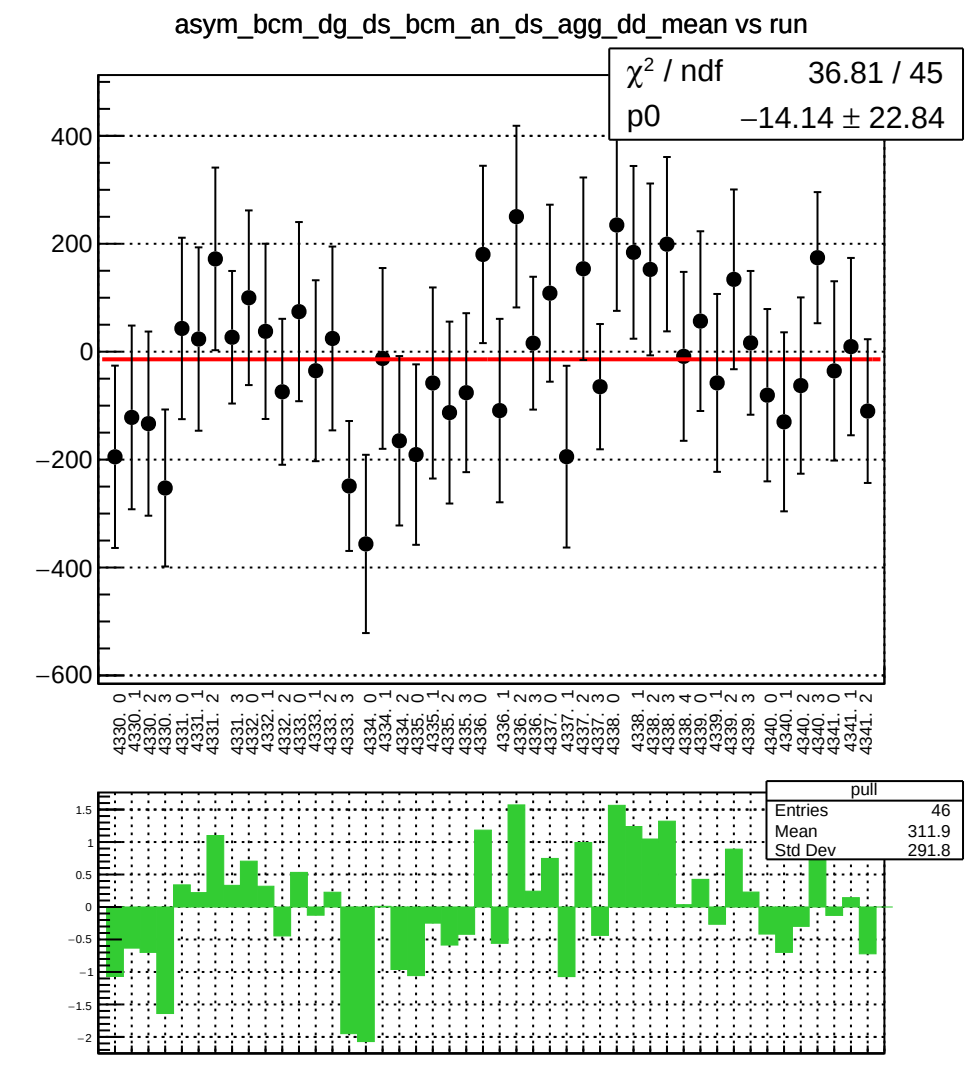

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 22.24 / 45
p0 1.48 ± 29.35
pull
Entries 46
Mean −733.3
Std Dev 741.5

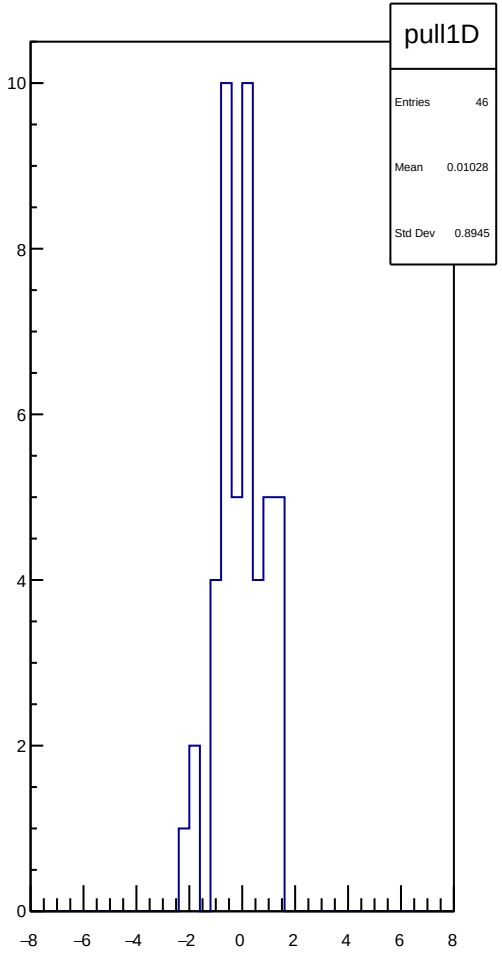

pull1D
Entries 46
Mean −0.001013
Std Dev 0.6953

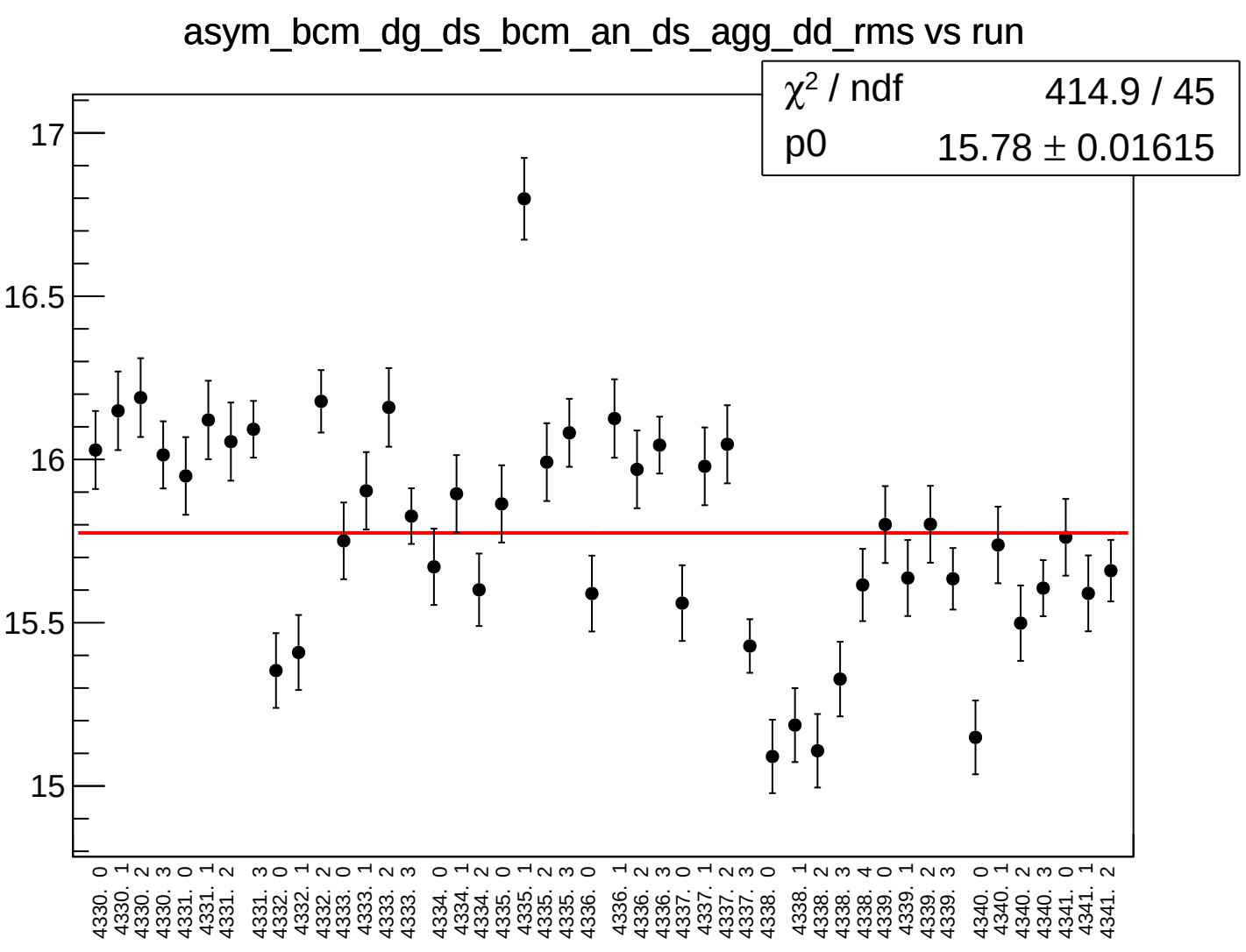

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 914.3 / 45
p0 20.27 ± 0.02075
21.5
21
20.5
20
19.5
19
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

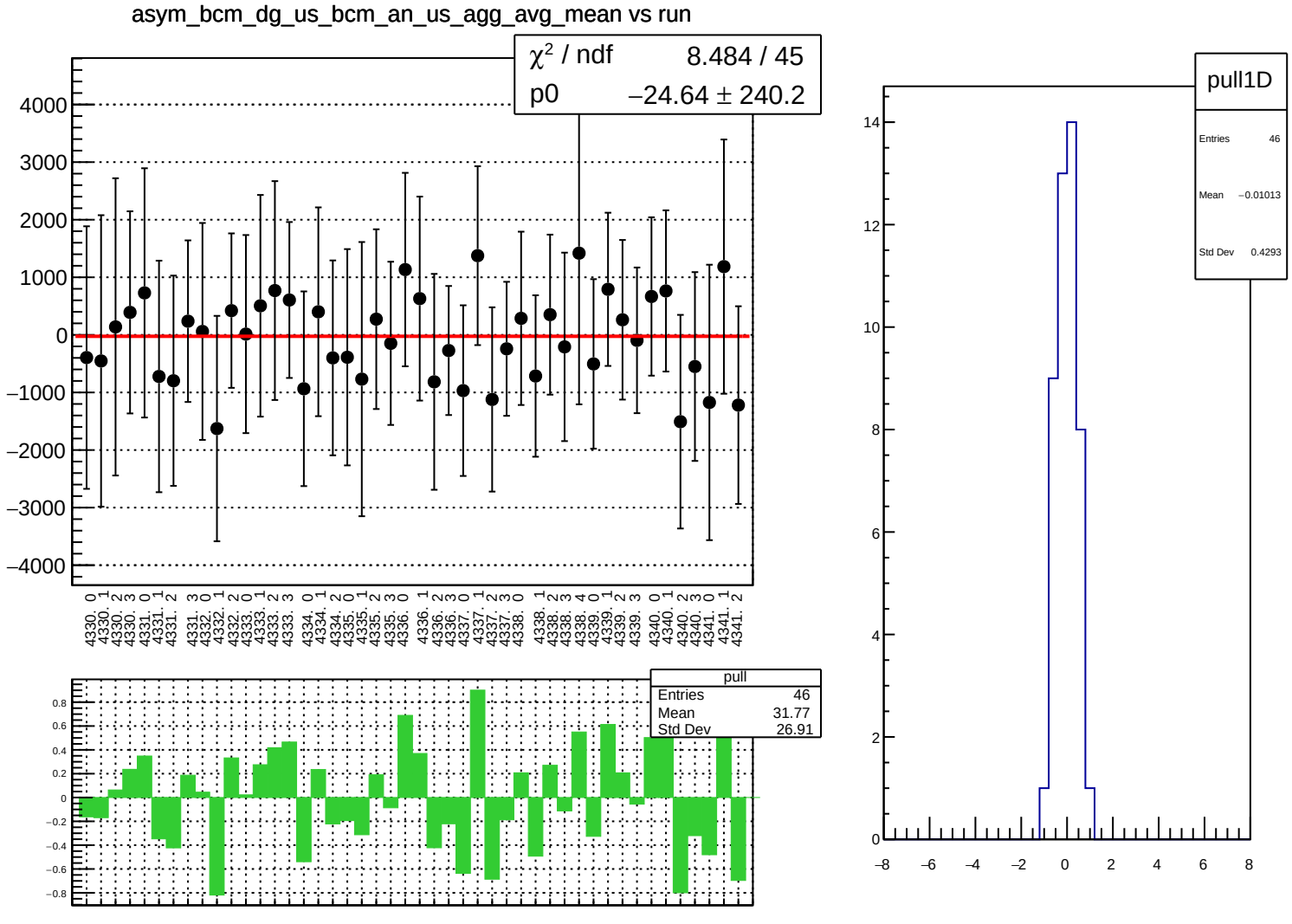

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.35 / 45
p0 −47.13 ± 235.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 22.24
Std Dev 26.57
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.007111
Std Dev 0.3997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

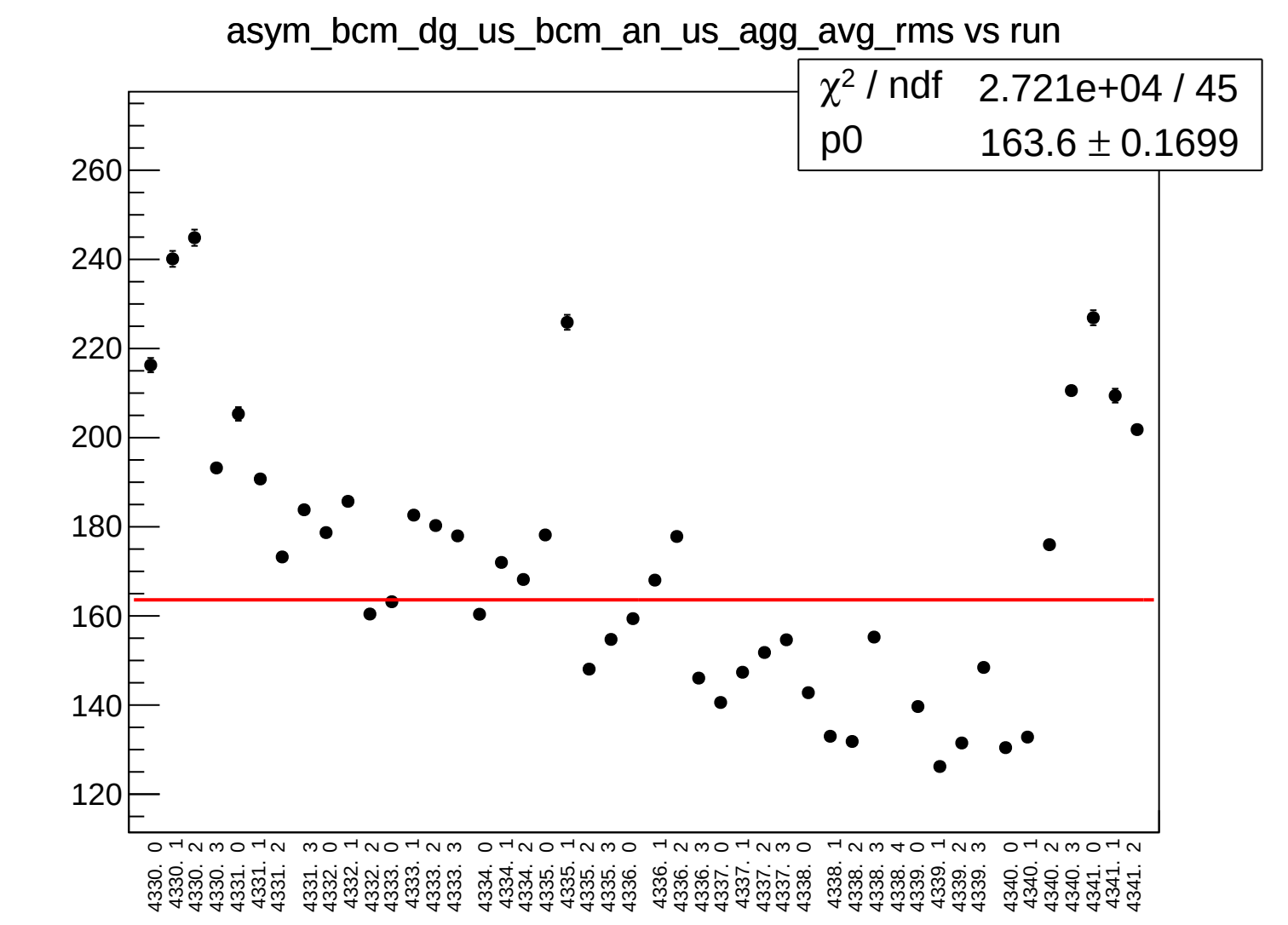

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.738e+04 / 45
p0 160.6 ± 0.1668
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

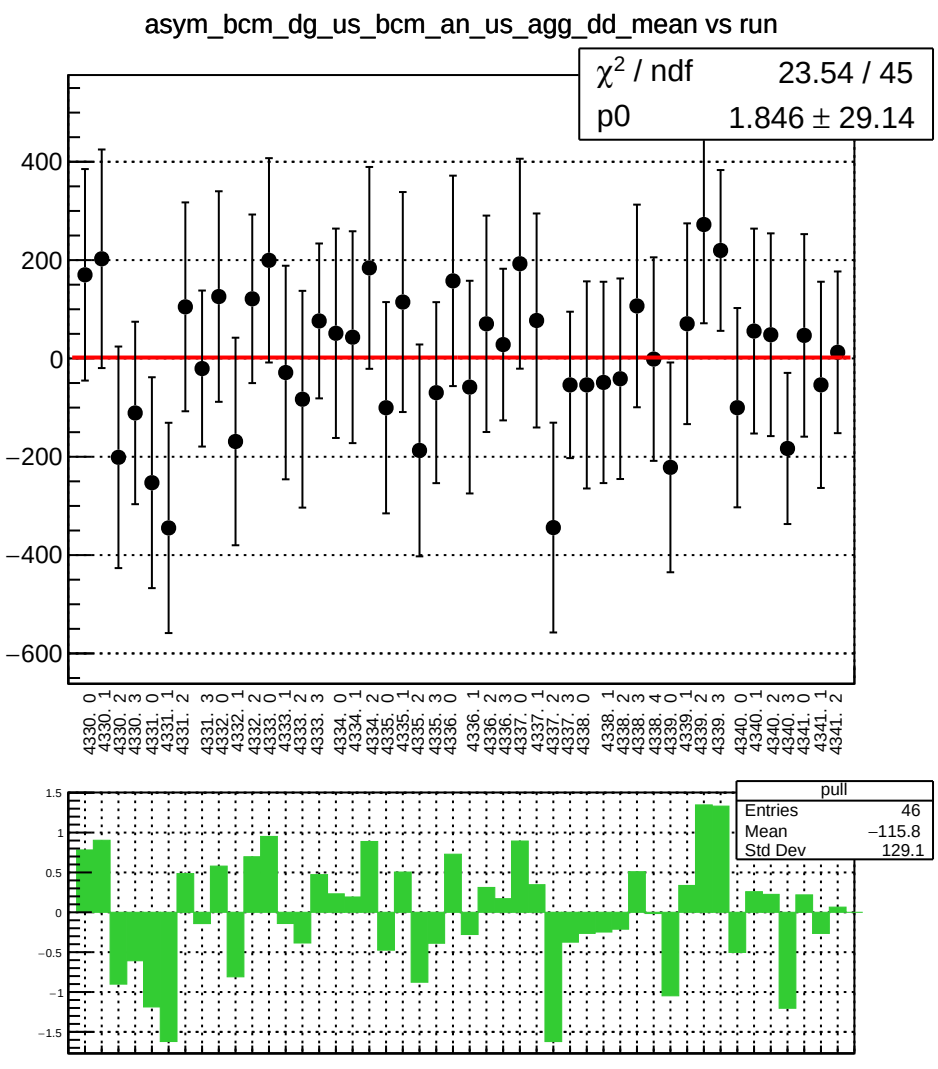

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 36.81 / 45
p0 −14.14 ± 22.84
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 311.9
Std Dev 291.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

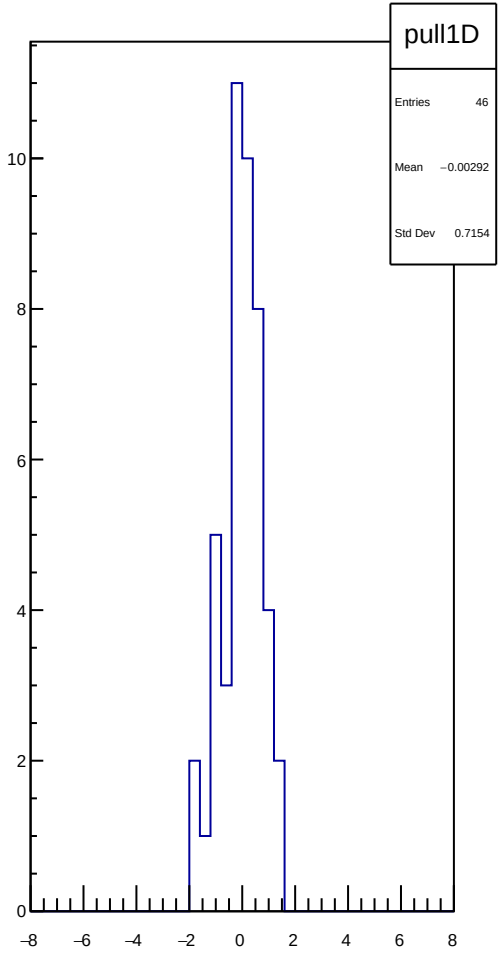

pull1D
Entries 46
Mean 0.01028
Std Dev 0.8945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

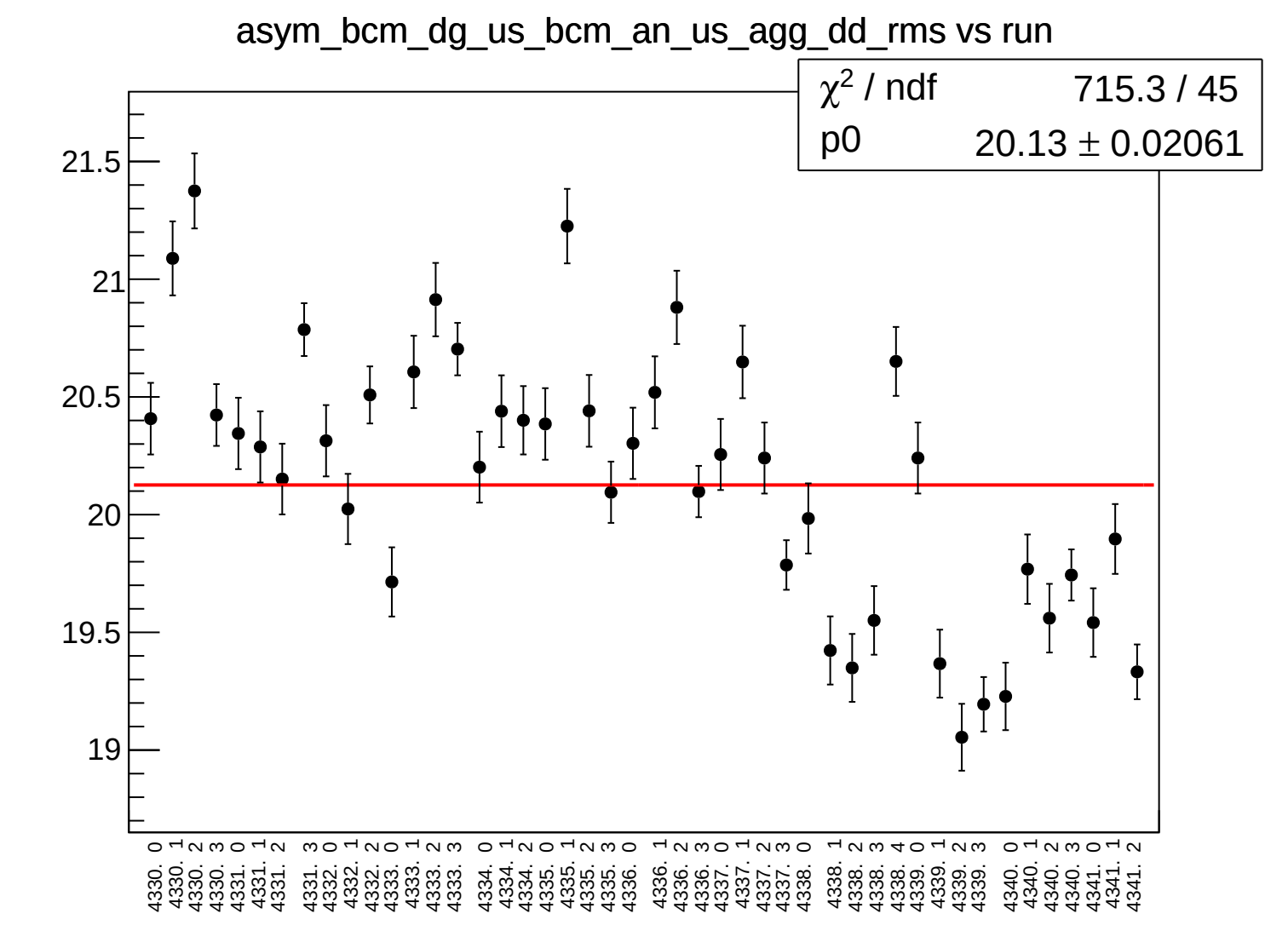

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 414.9 / 45
p0 15.78 ± 0.01615
17
16.5
16
15.5
15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

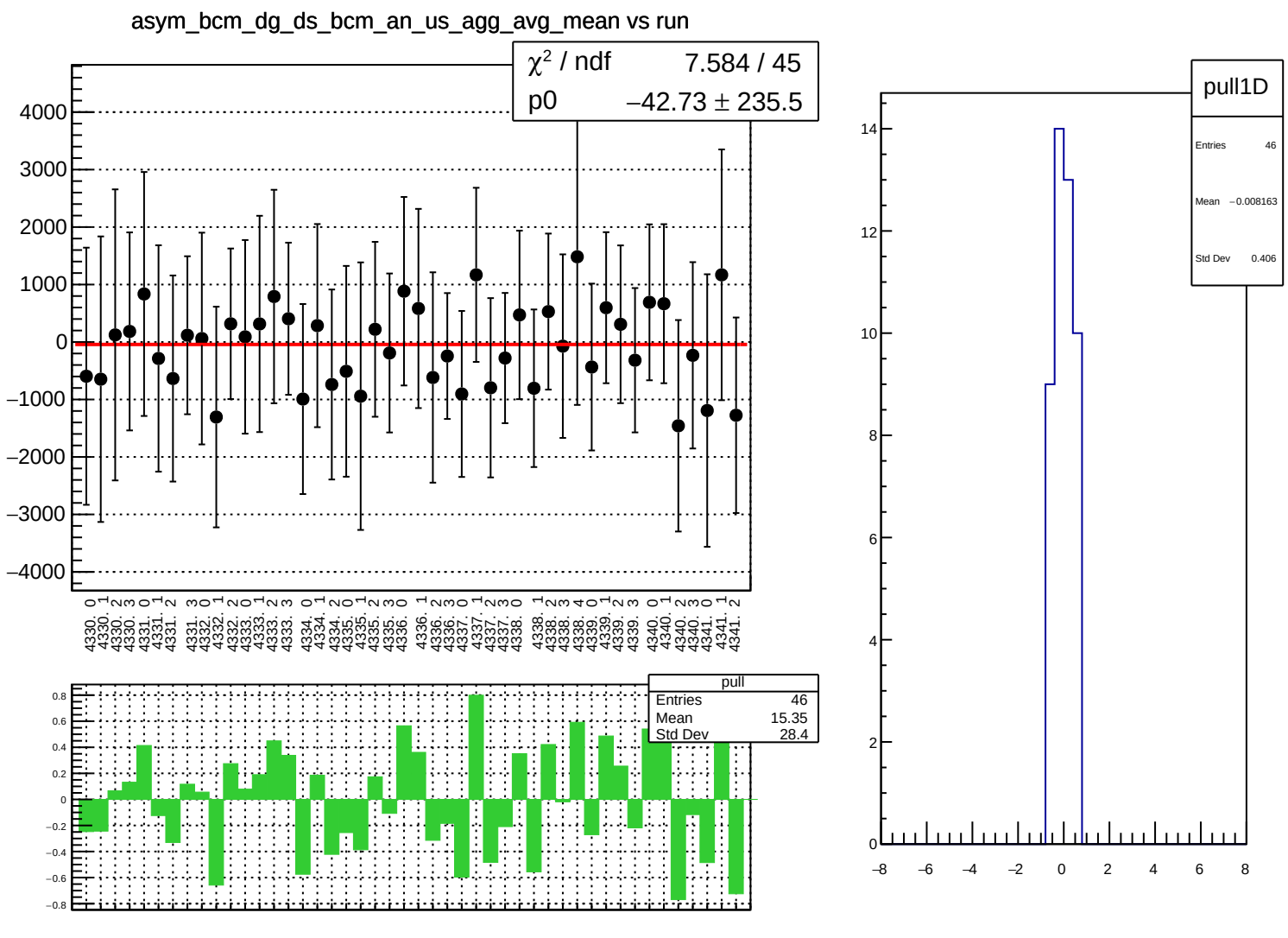

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.484 / 45
p0 −24.64 ± 240.2
pull
Entries 46
Mean 31.77
Std Dev 26.91
pull1D
Entries 46
Mean −0.01013
Std Dev 0.4293

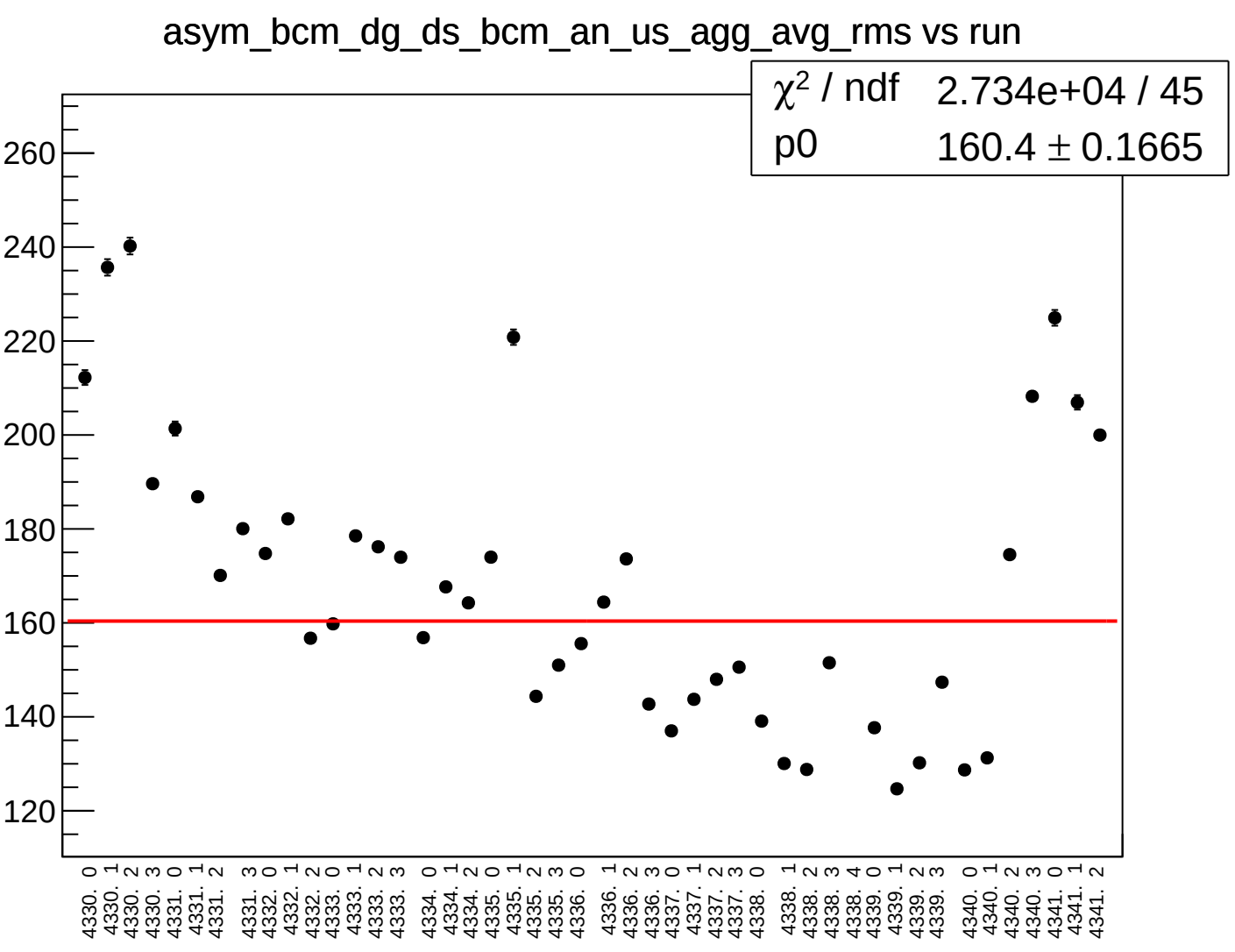

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.721e+04 / 45
p0 163.6 ± 0.1699
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

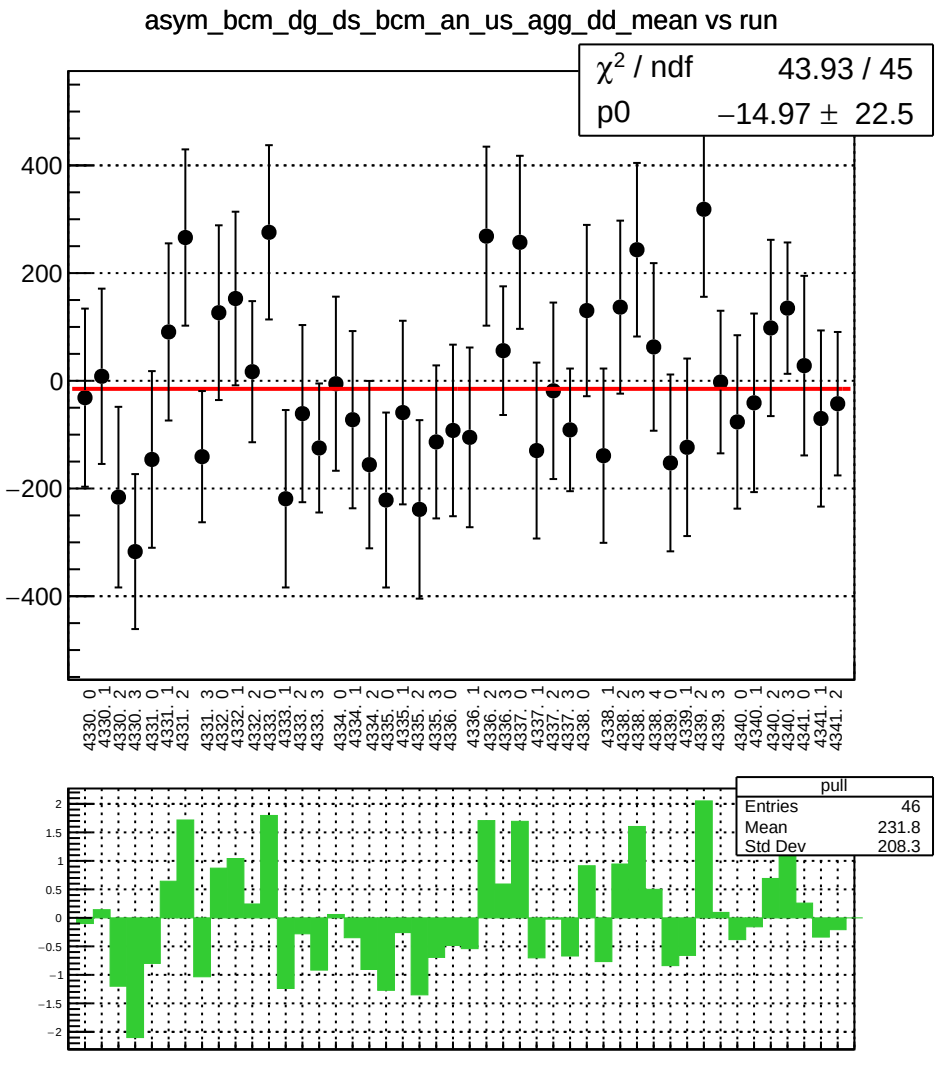

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.54 / 45
p0 1.846 ± 29.14
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −115.8
Std Dev 129.1
1.5
1
0.5
0
−0.5
−1
−1.5

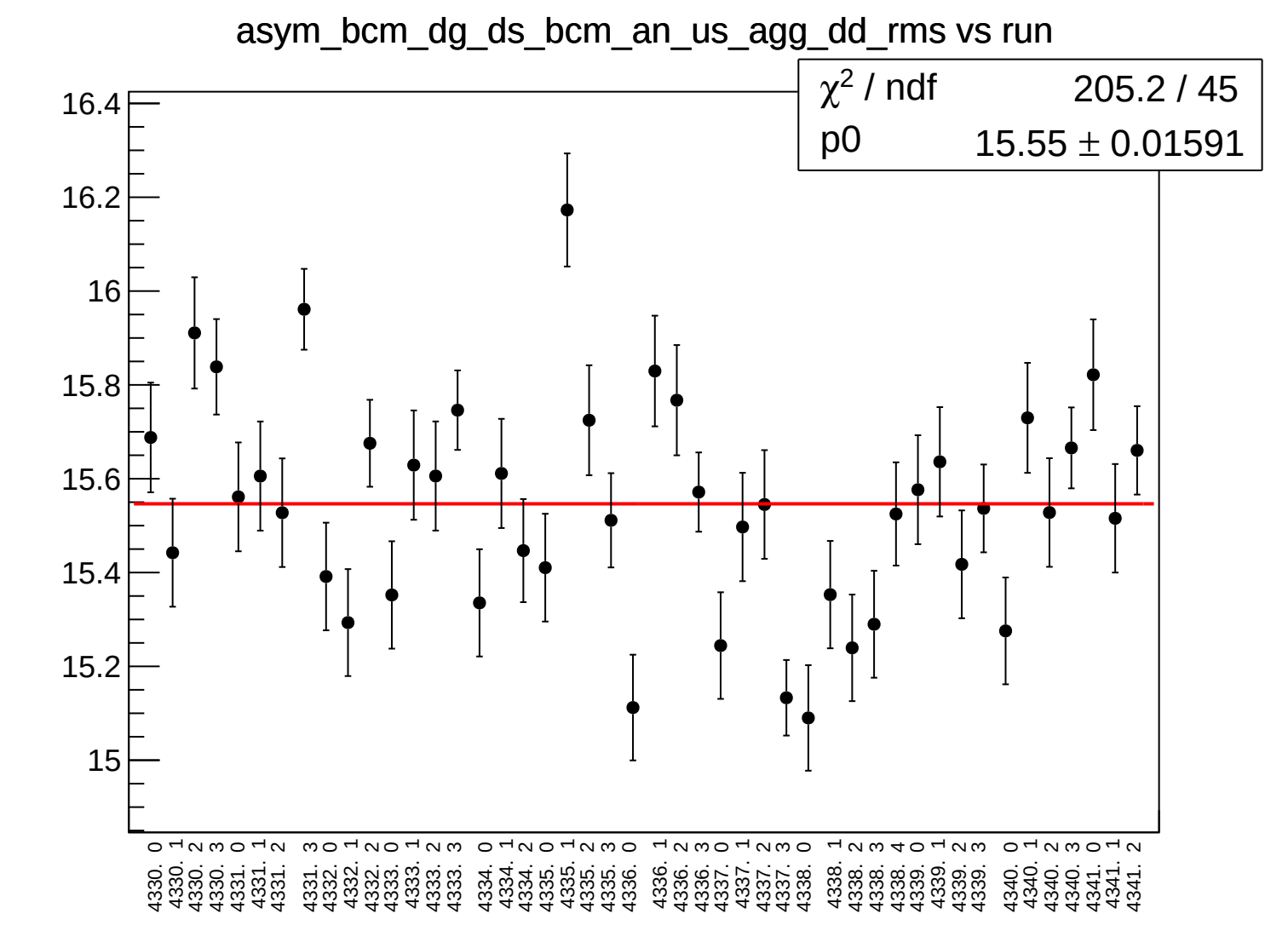

pull1D
Entries 46
Mean −0.00292
Std Dev 0.7154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

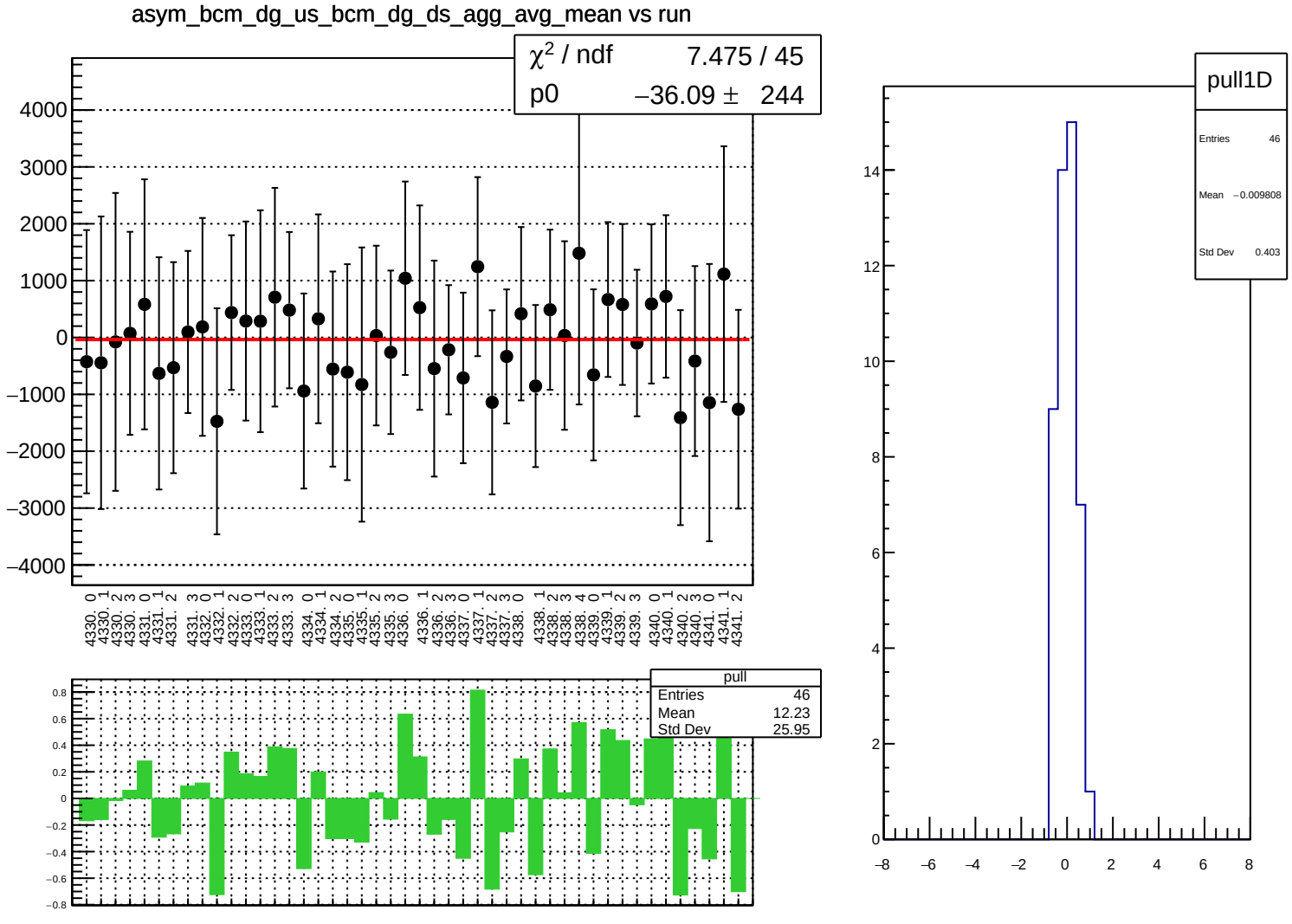

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 715.3 / 45
p0 20.13 ± 0.02061
21.5
21
20.5
20
19.5
19
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

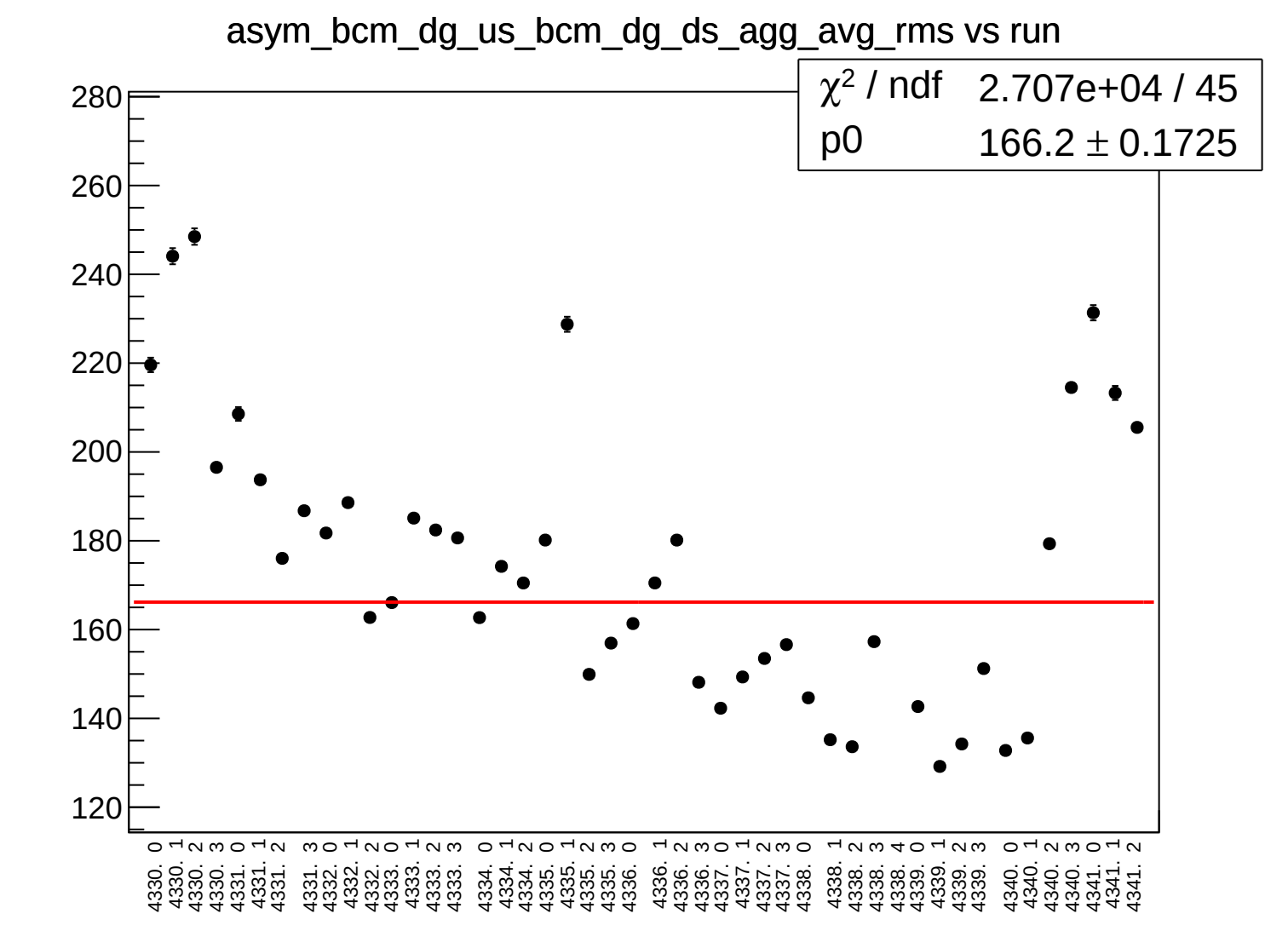

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.584 / 45
p0 −42.73 ± 235.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 15.35
Std Dev 28.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.008163
Std Dev 0.406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

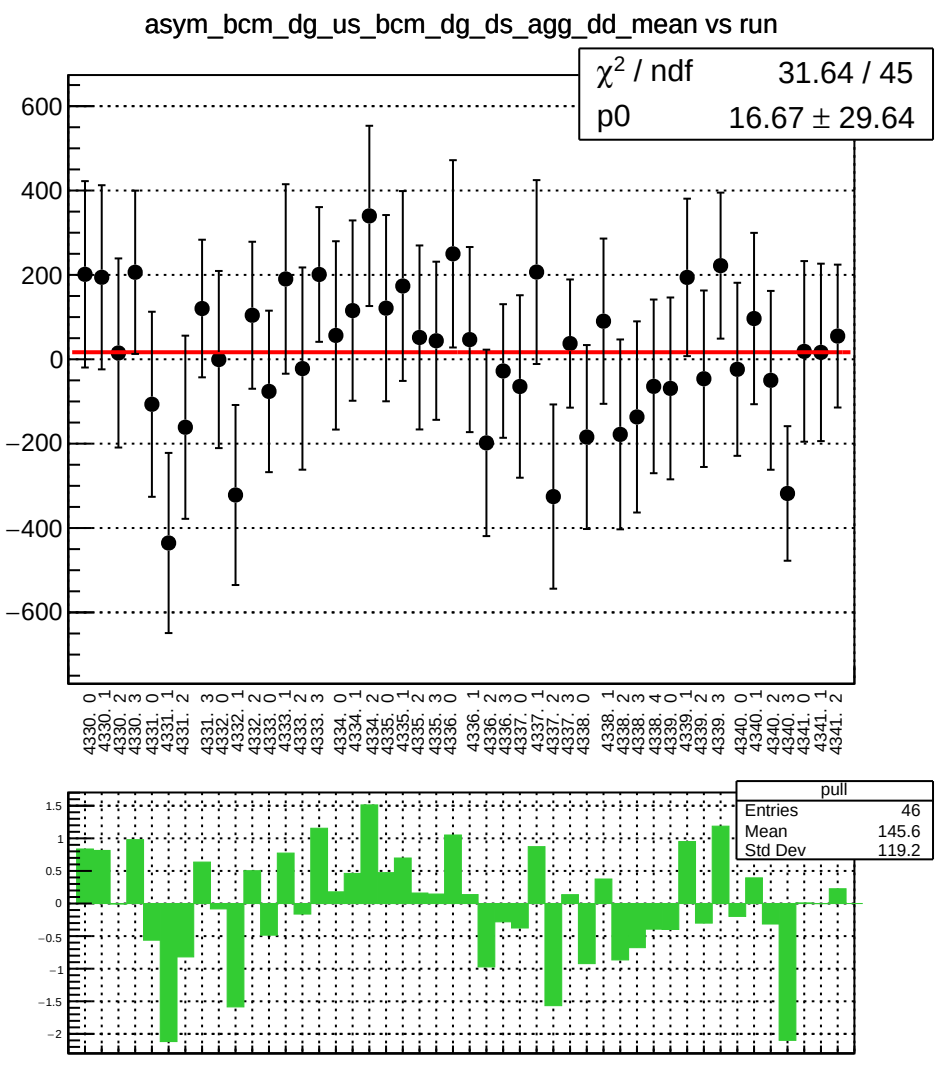

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.734e+04 / 45
p0 160.4 ± 0.1665
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

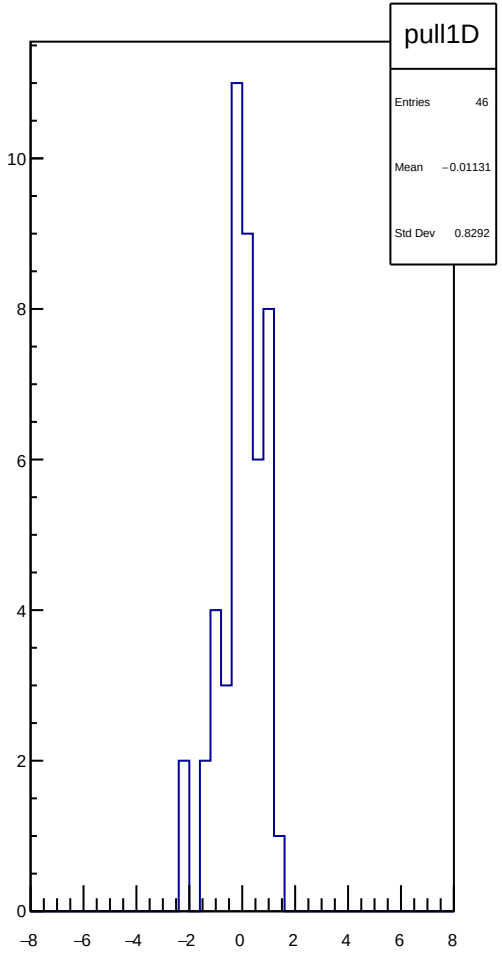

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 43.93 / 45
p0 −14.97 ± 22.5
400
200
0
−200
−400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 231.8
Std Dev 208.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.01187
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

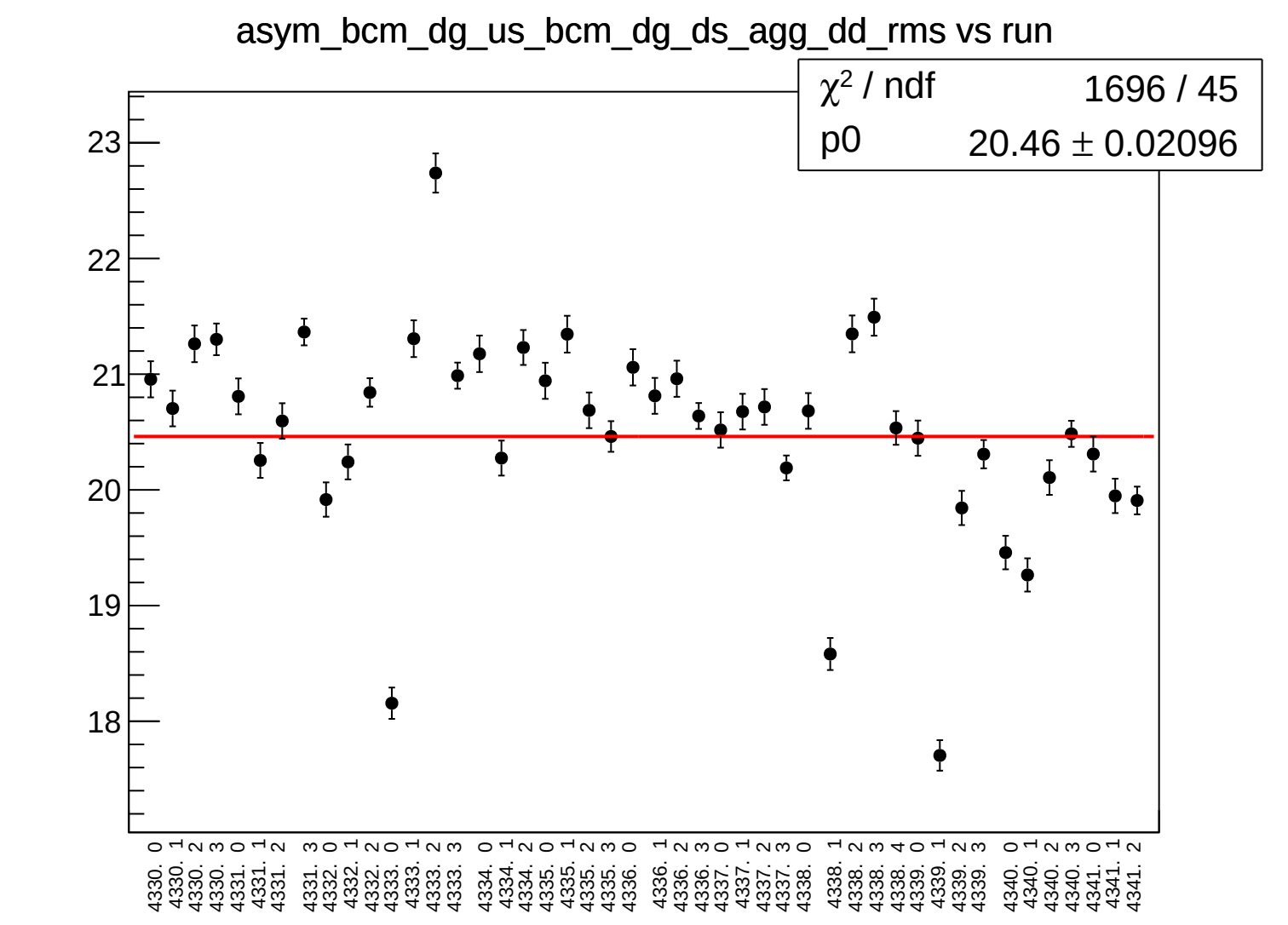

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 205.2 / 45
p0 15.55 ± 0.01591
16.4
16.2
16
15.8
15.6
15.4
15.2
15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

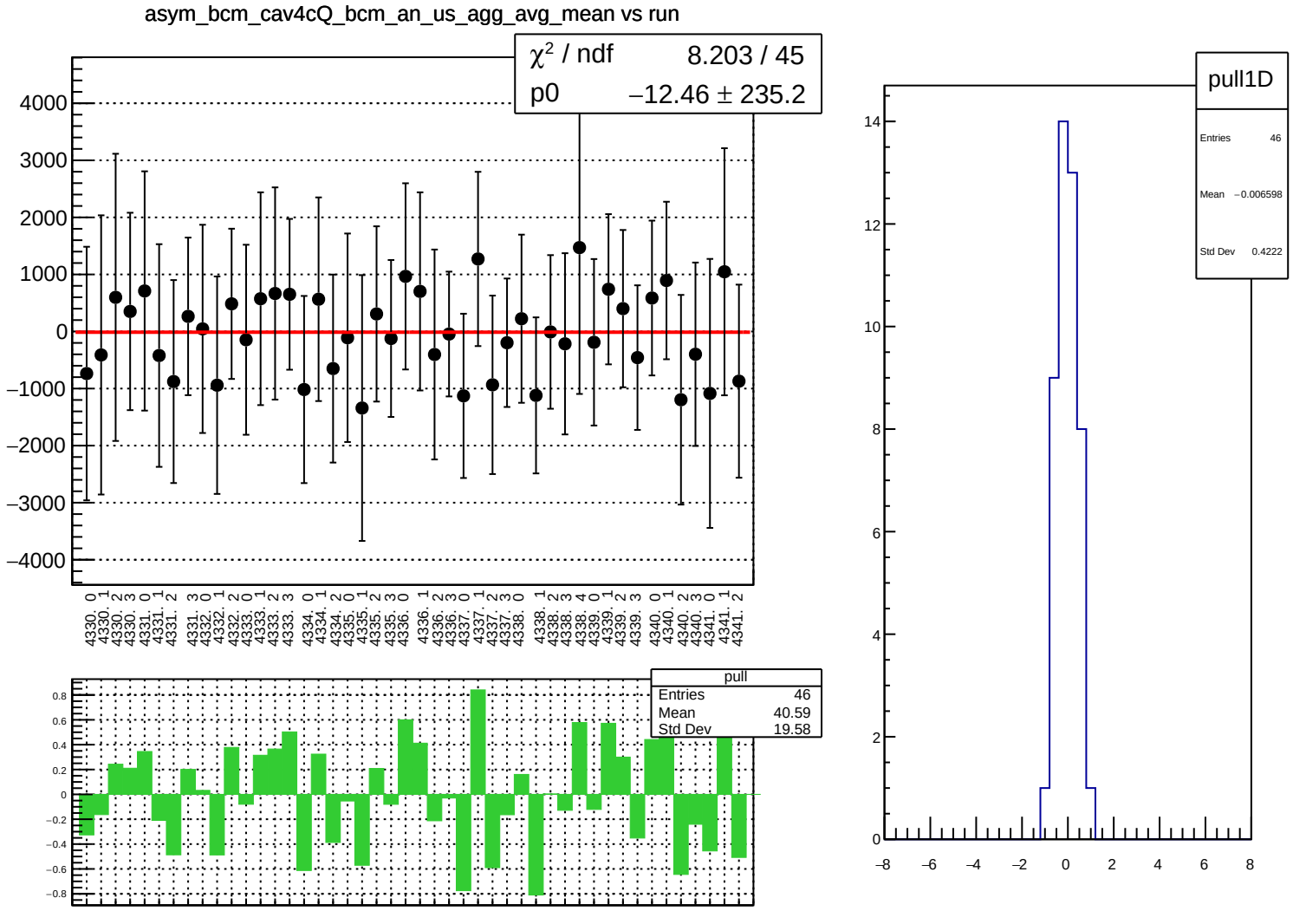

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.475 / 45
p0 −36.09 ± 244
pull
Entries 46
Mean 12.23
Std Dev 25.95
pull1D
Entries 46
Mean −0.009808
Std Dev 0.403

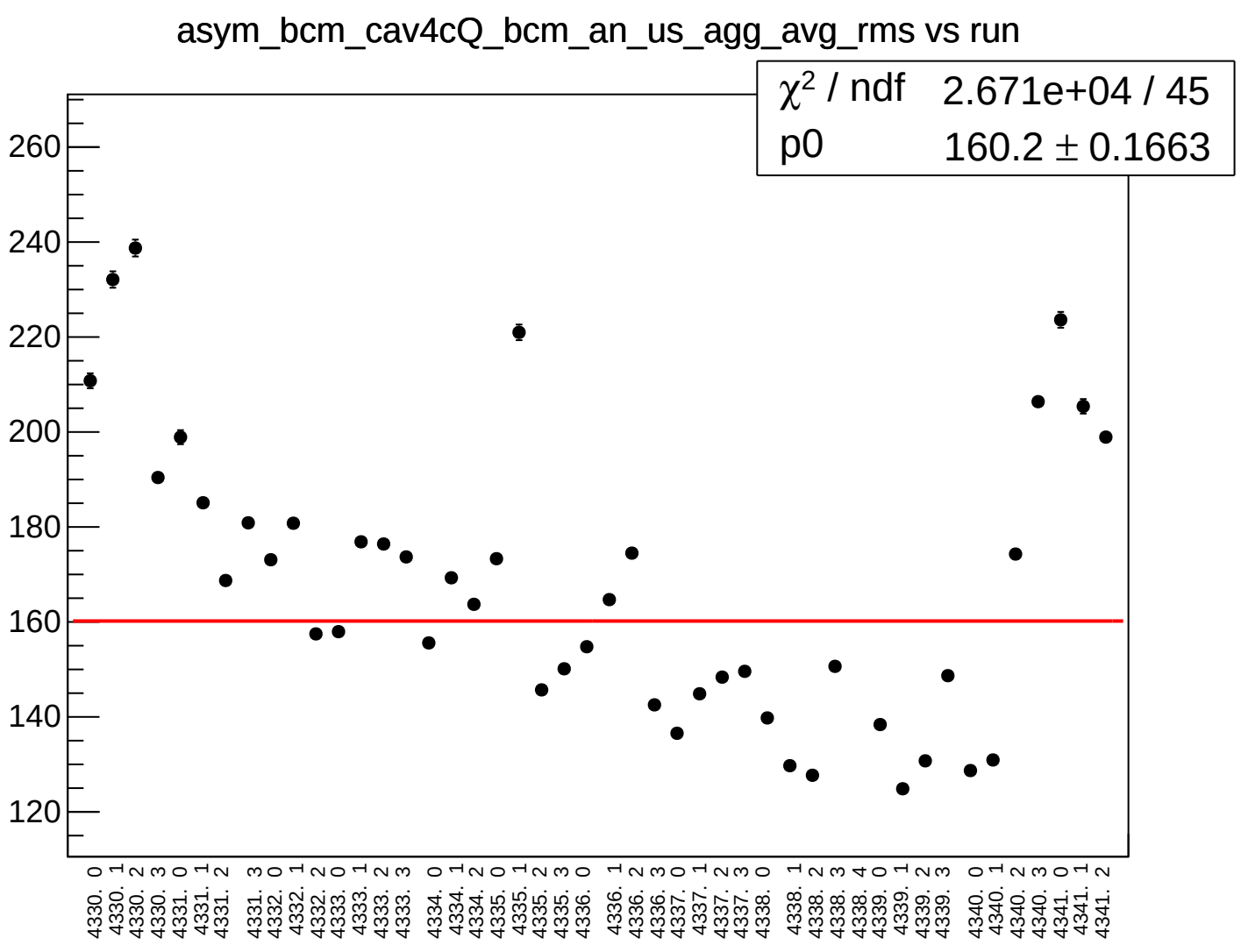

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.707e+04 / 45
p0 166.2 ± 0.1725
280
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

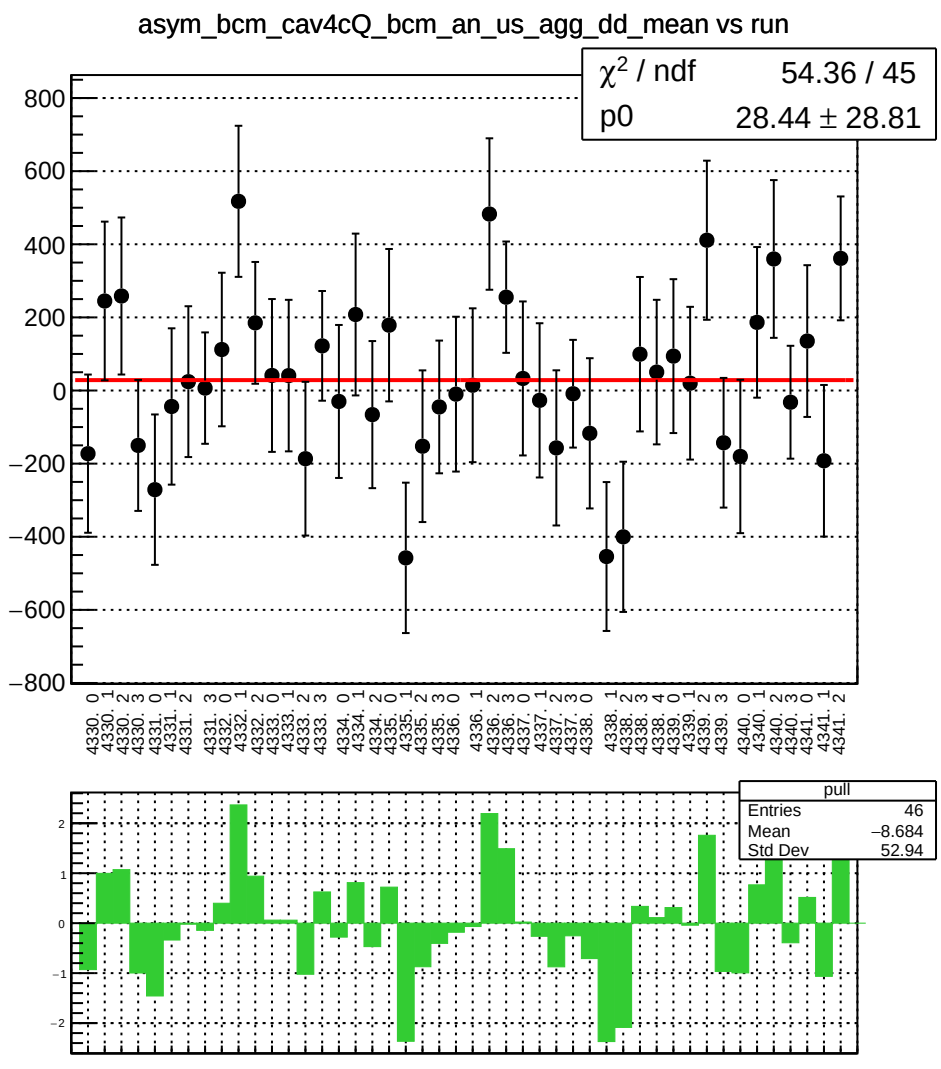

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 31.64 / 45
p0 16.67 ± 29.64
pull
Entries 46
Mean 145.6
Std Dev 119.2

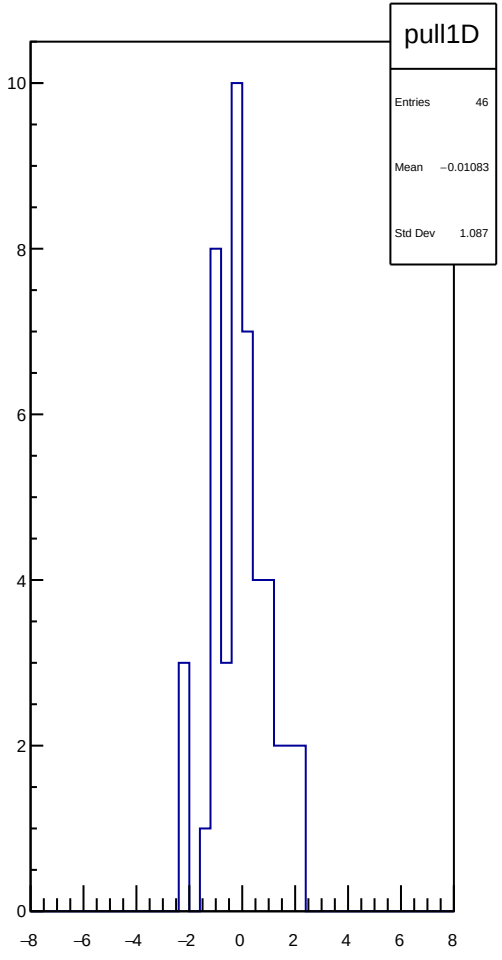

pull1D
Entries 46
Mean −0.01131
Std Dev 0.8292

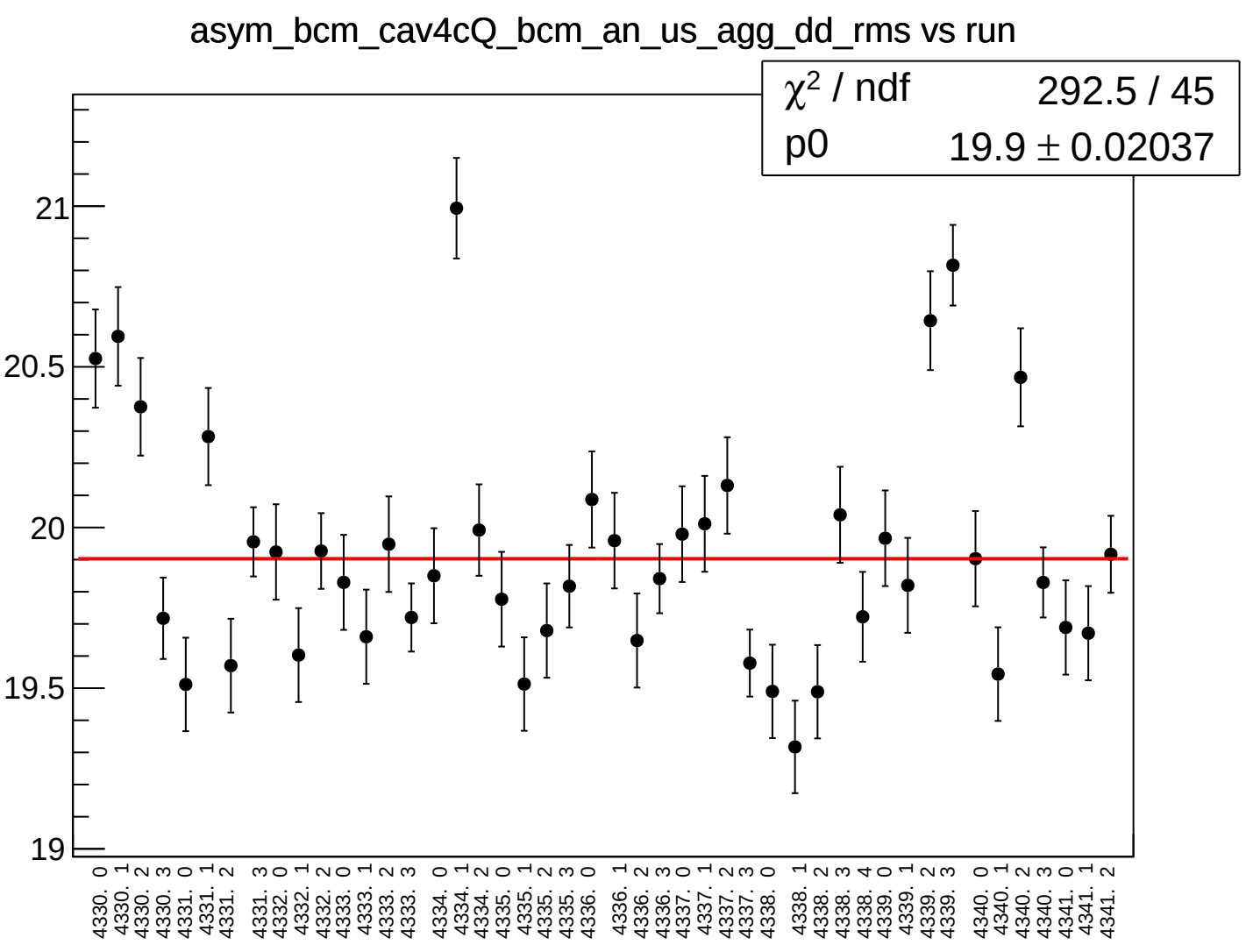

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1696 / 45
p0 20.46 ± 0.02096
23
22
21
20
19
18
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

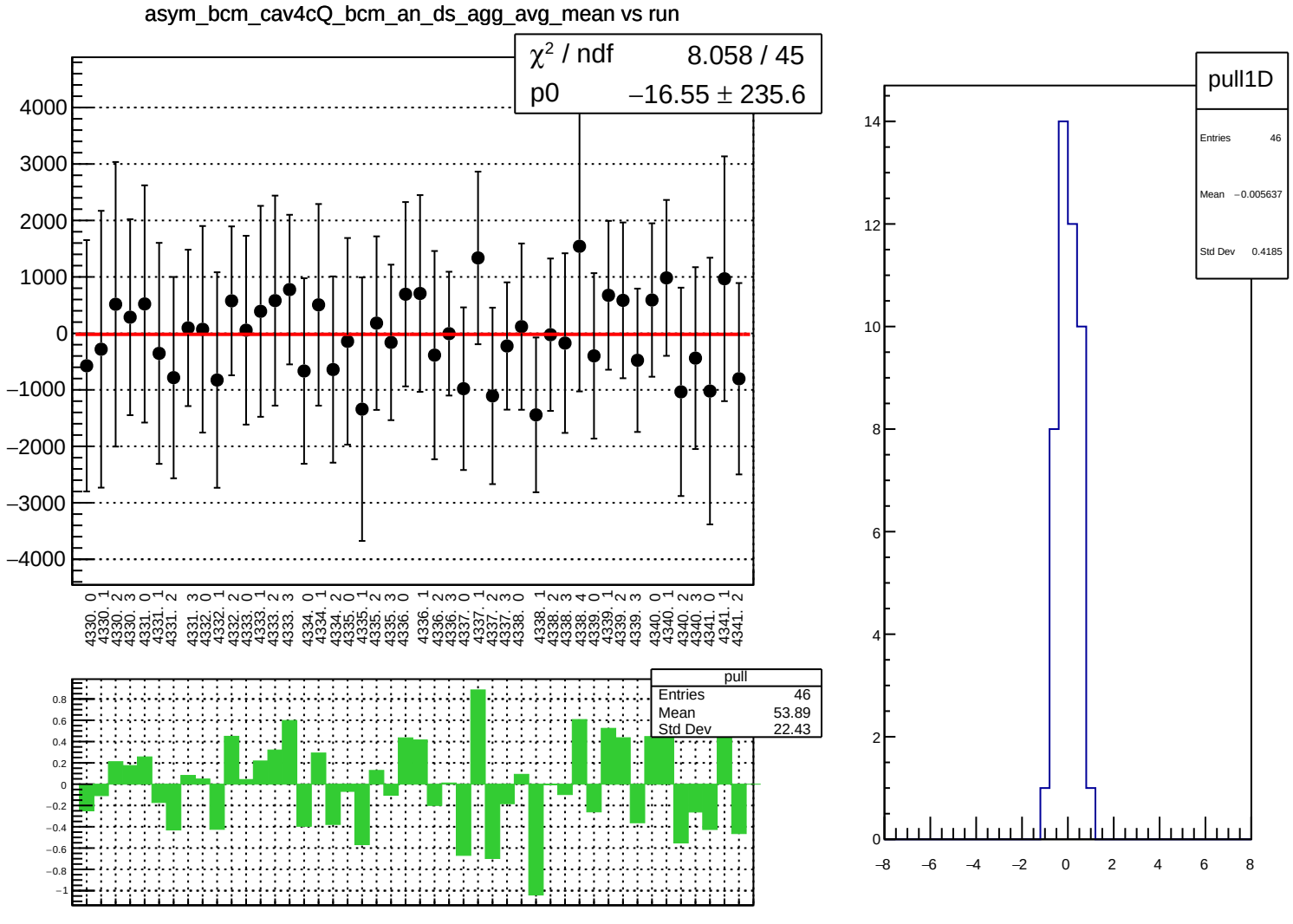

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.203 / 45
p0 −12.46 ± 235.2
pull
Entries 46
Mean 40.59
Std Dev 19.58
pull1D
Entries 46
Mean −0.006598
Std Dev 0.4222

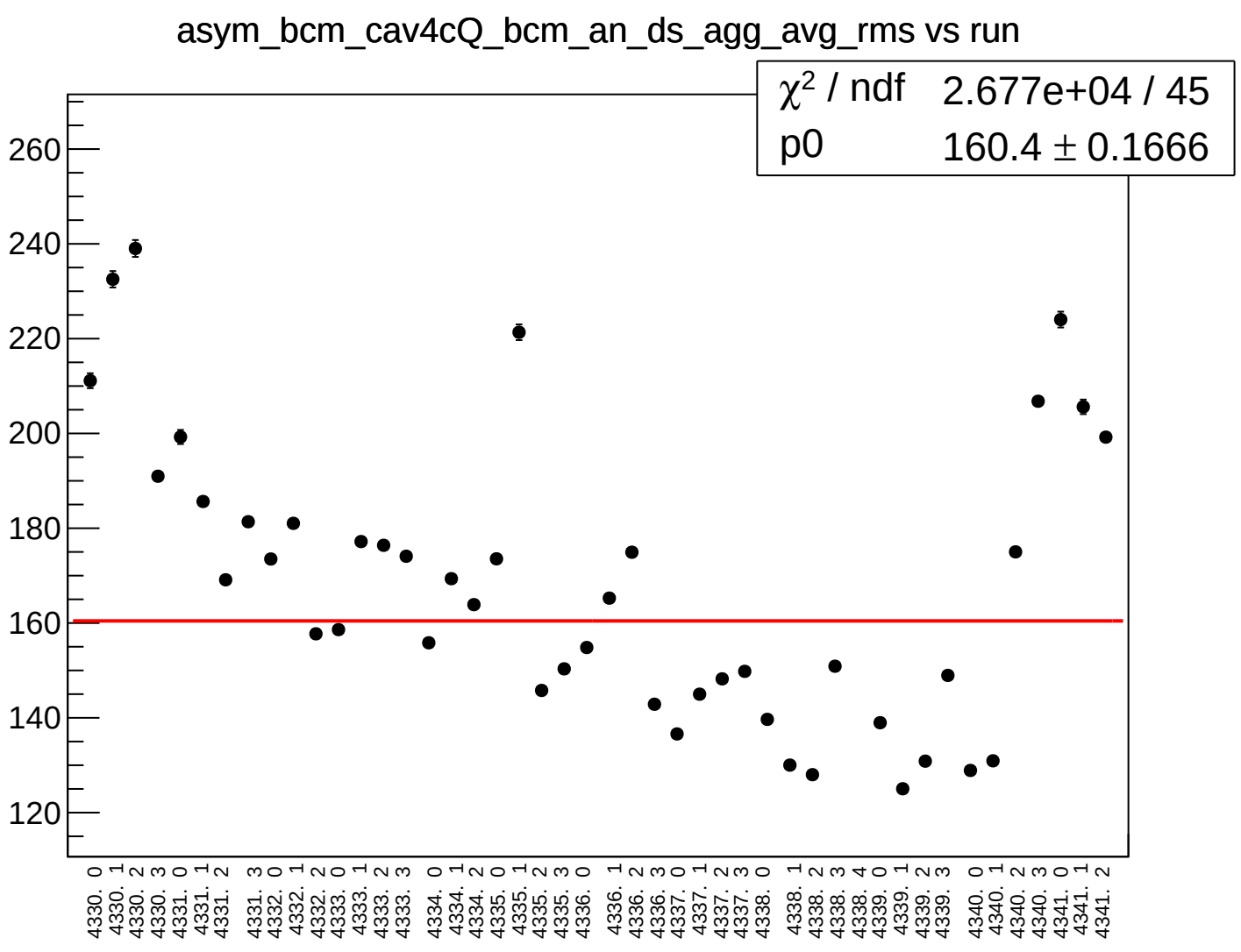

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.671e+04 / 45
p0 160.2 ± 0.1663
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

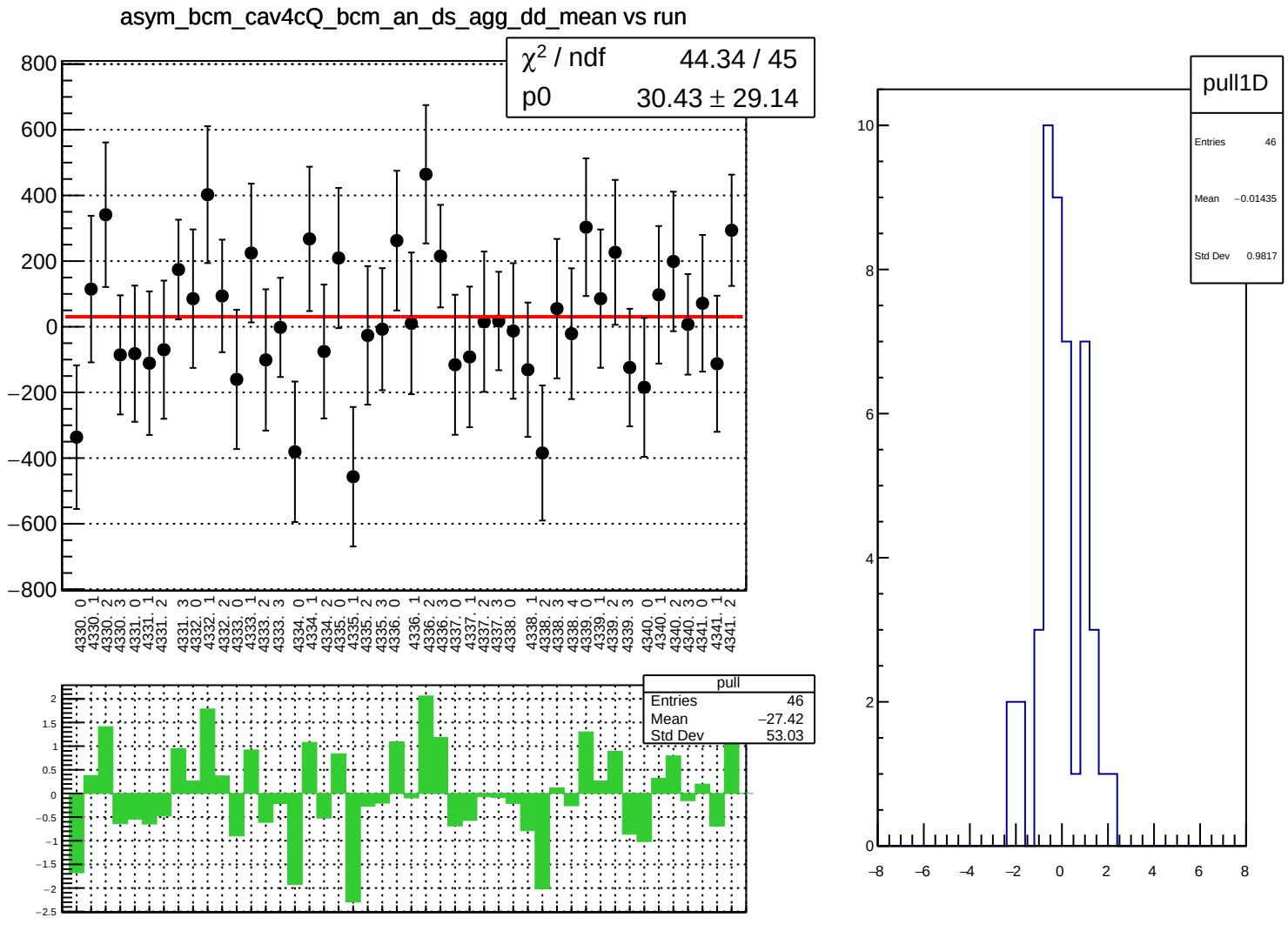

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 54.36 / 45
p0 28.44 ± 28.81
pull
Entries 46
Mean −8.684
Std Dev 52.94

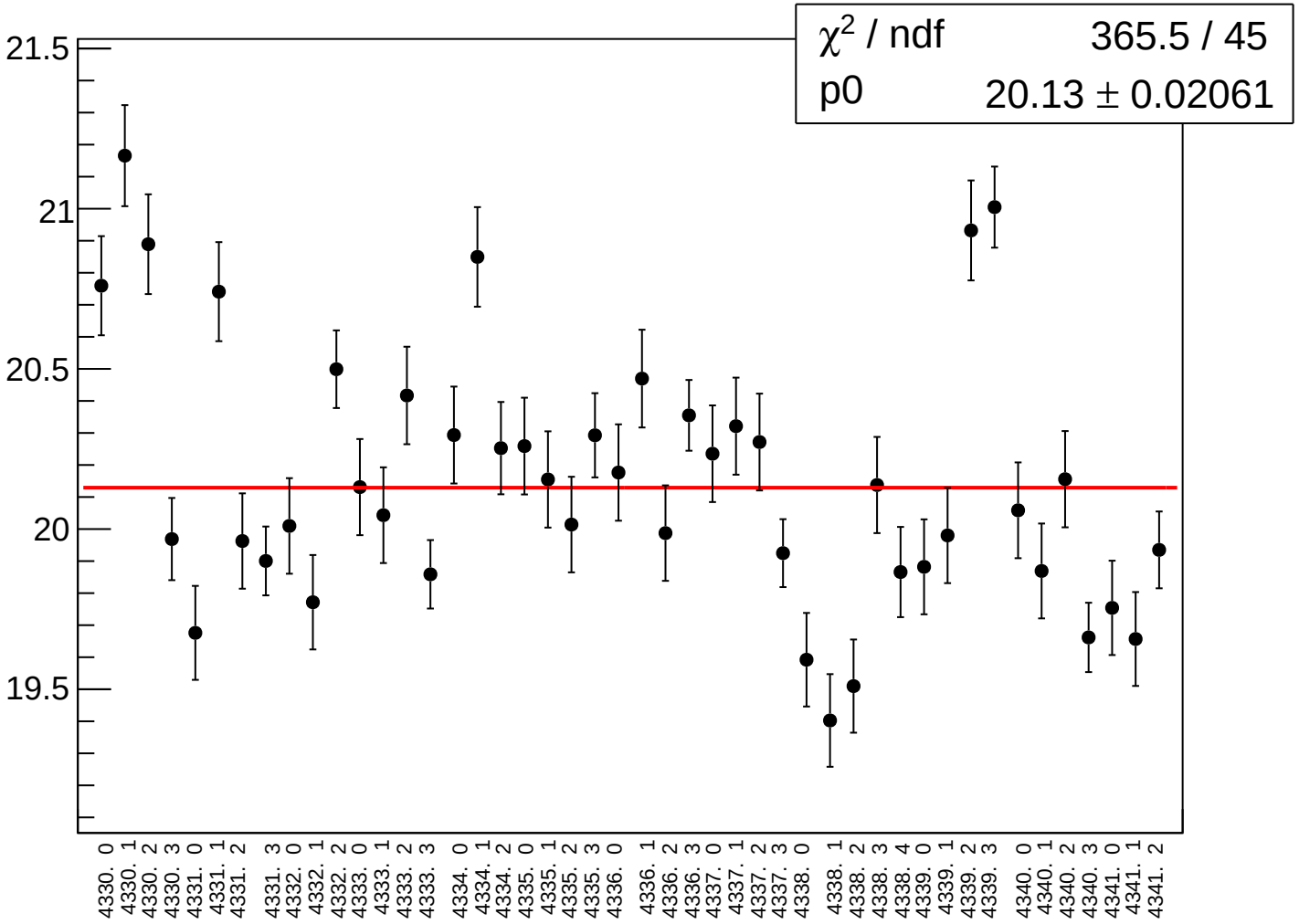

pull1D
Entries 46
Mean −0.01083
Std Dev 1.087

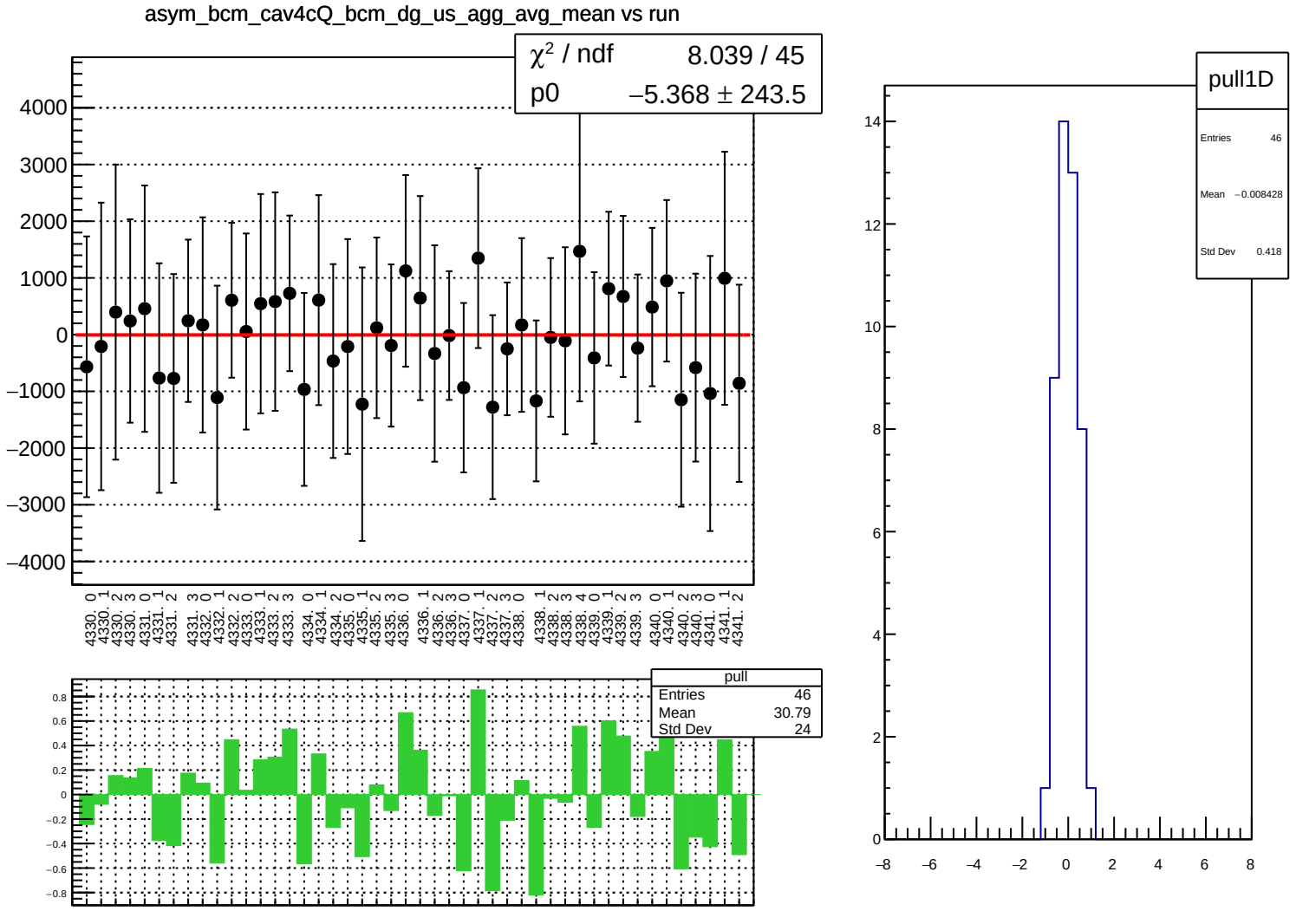

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 292.5 / 45
p0 19.9 ± 0.02037
21
20.5
20
19.5
19
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

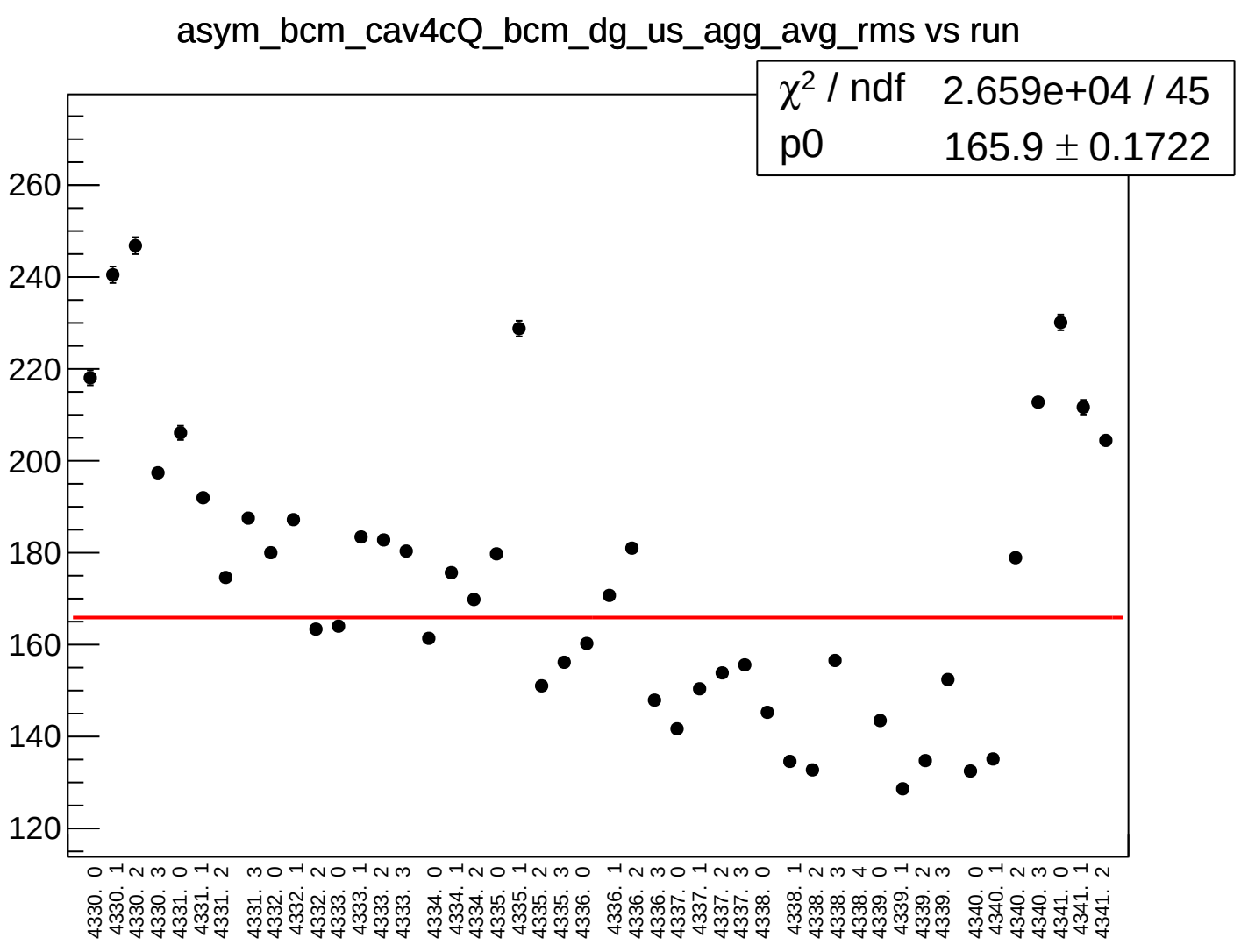

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.058 / 45
p0 −16.55 ± 235.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 53.89
Std Dev 22.43
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean −0.005637
Std Dev 0.4185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

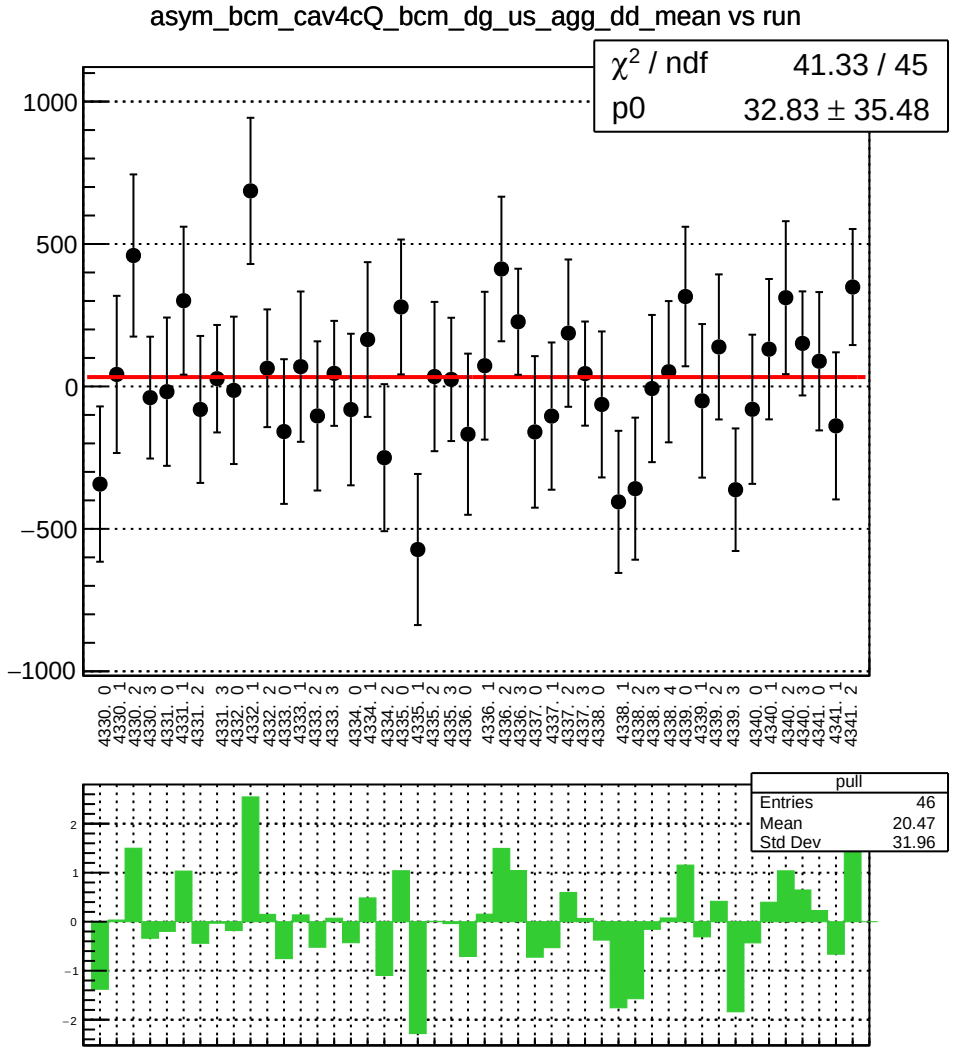

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.677e+04 / 45
p0 160.4 ± 0.1666
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

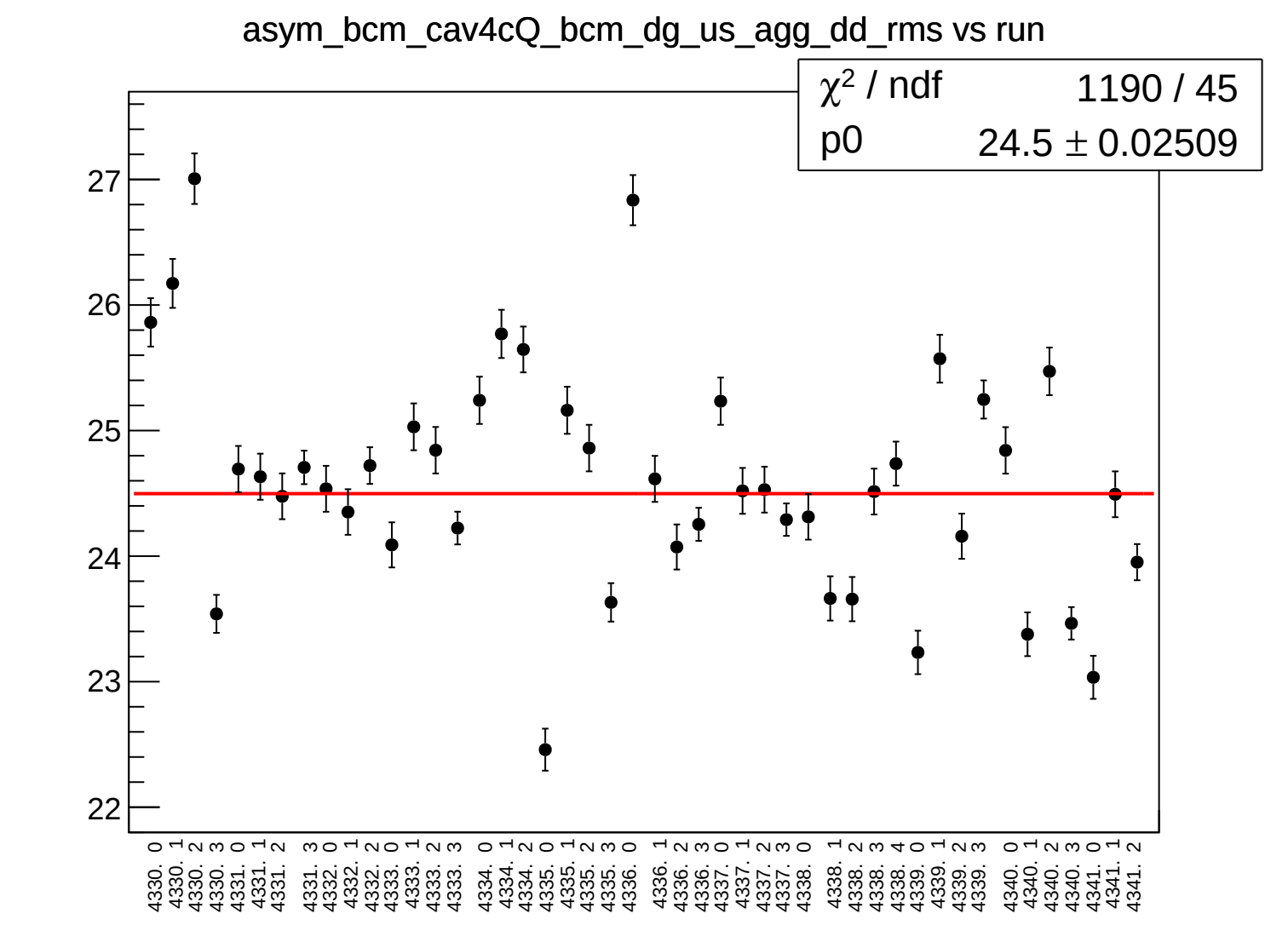

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.34 / 45
p0 30.43 ± 29.14
pull
Entries 46
Mean −27.42
Std Dev 53.03
pull1D
Entries 46
Mean −0.01435
Std Dev 0.9817

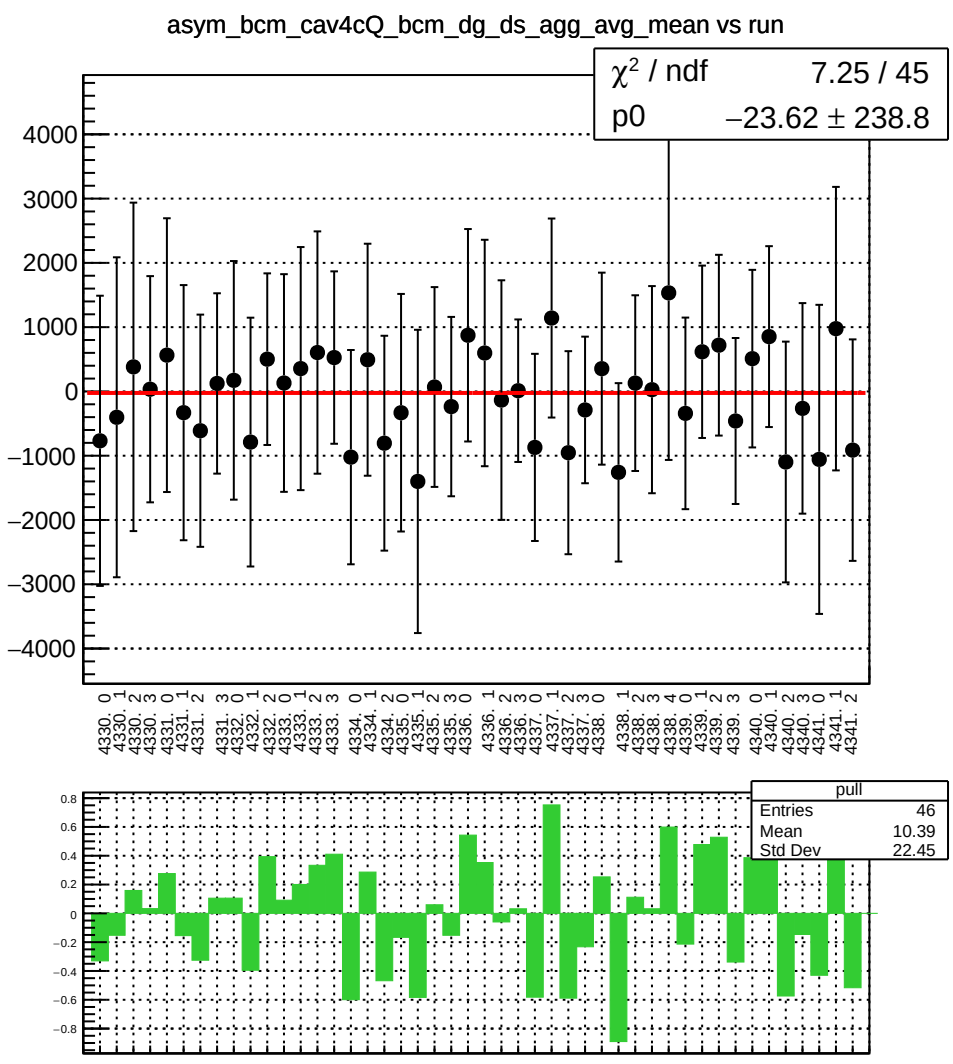

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 365.5 / 45
p0 20.13 ± 0.02061
21.5
21
20.5
20
19.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

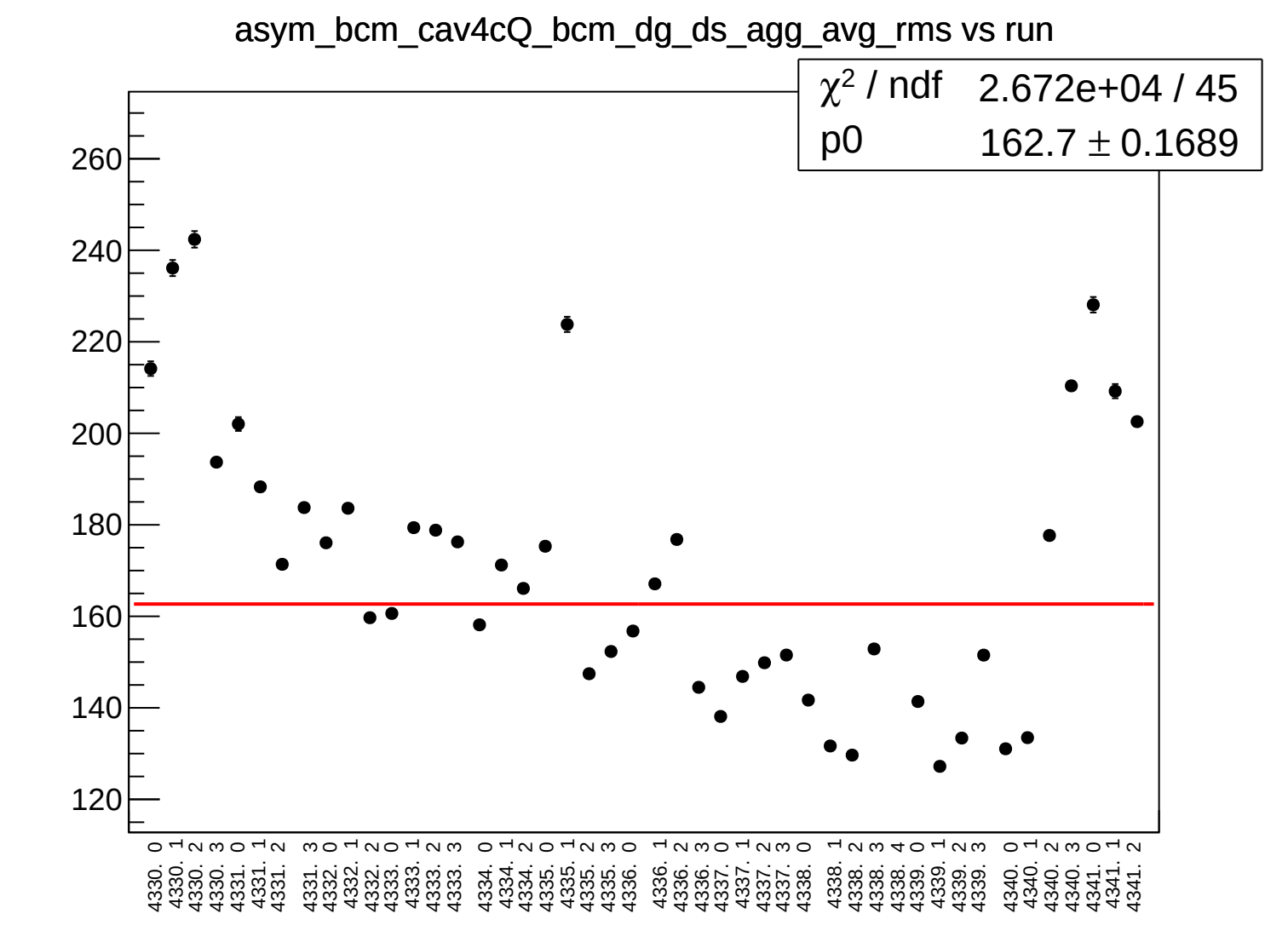

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.039 / 45
p0 −5.368 ± 243.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 30.79
Std Dev 24
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.008428
Std Dev 0.418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.659e+04 / 45
p0 165.9 ± 0.1722
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 41.33 / 45
p0 32.83 ± 35.48
1000
500
0
−500
−1000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 20.47
Std Dev 31.96
2
1
0
−1
−2
pull1D
Entries 46
Mean −0.01898
Std Dev 0.9477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1190 / 45
p0 24.5 ± 0.02509
27
26
25
24
23
22
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.25 / 45
p0 −23.62 ± 238.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 10.39
Std Dev 22.45
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.006421
Std Dev 0.397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.672e+04 / 45
p0 162.7 ± 0.1689
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
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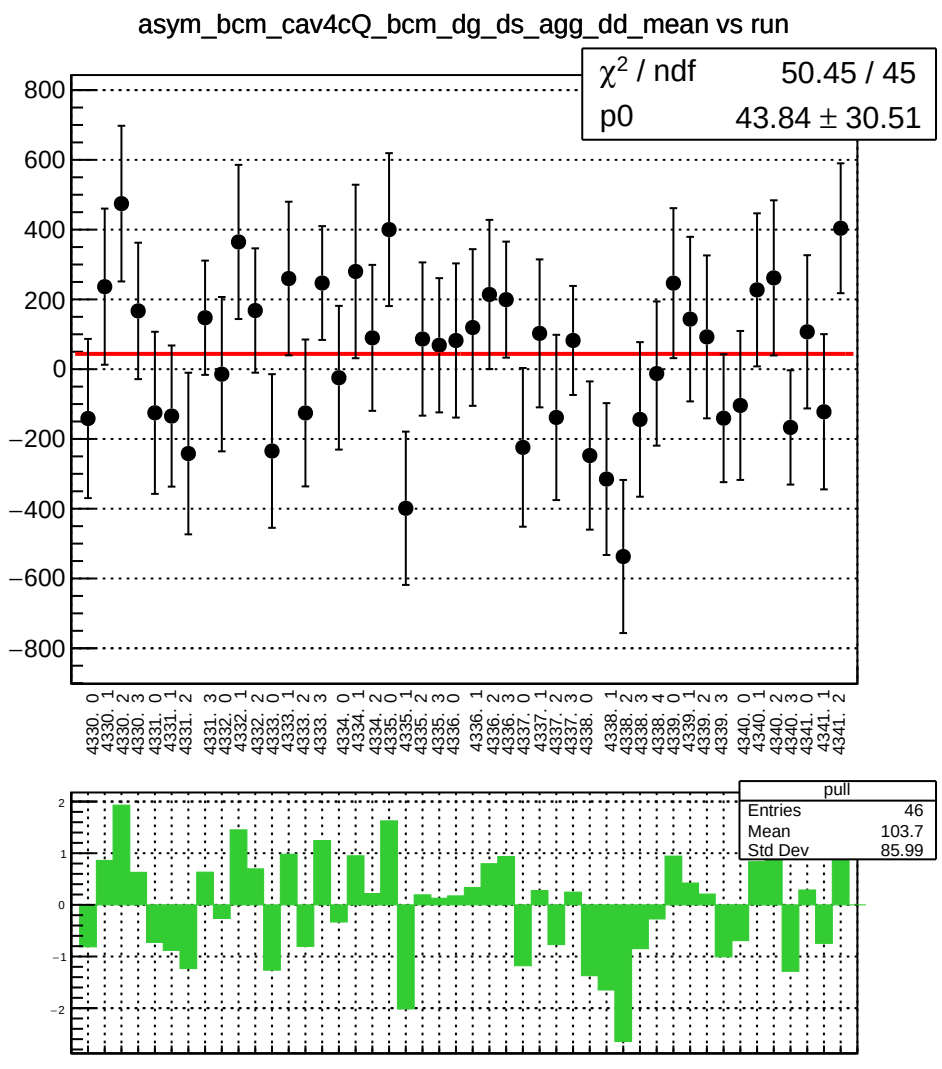
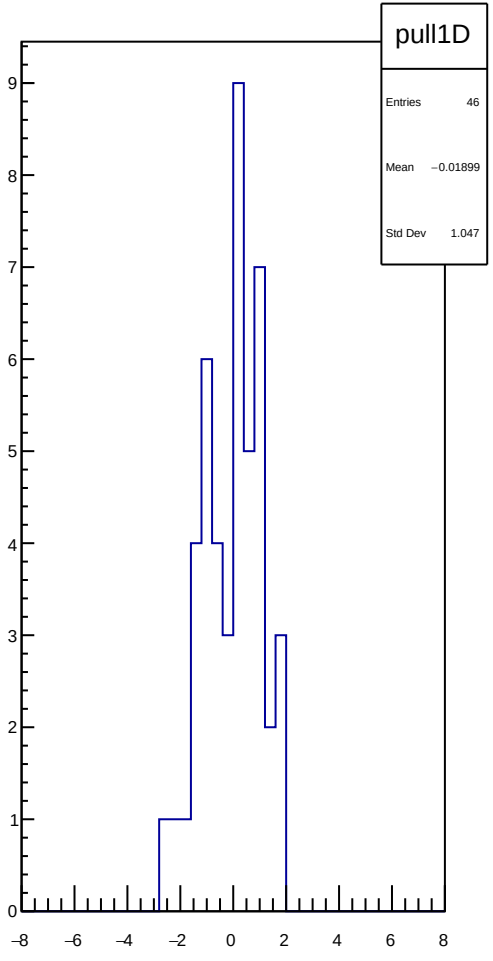
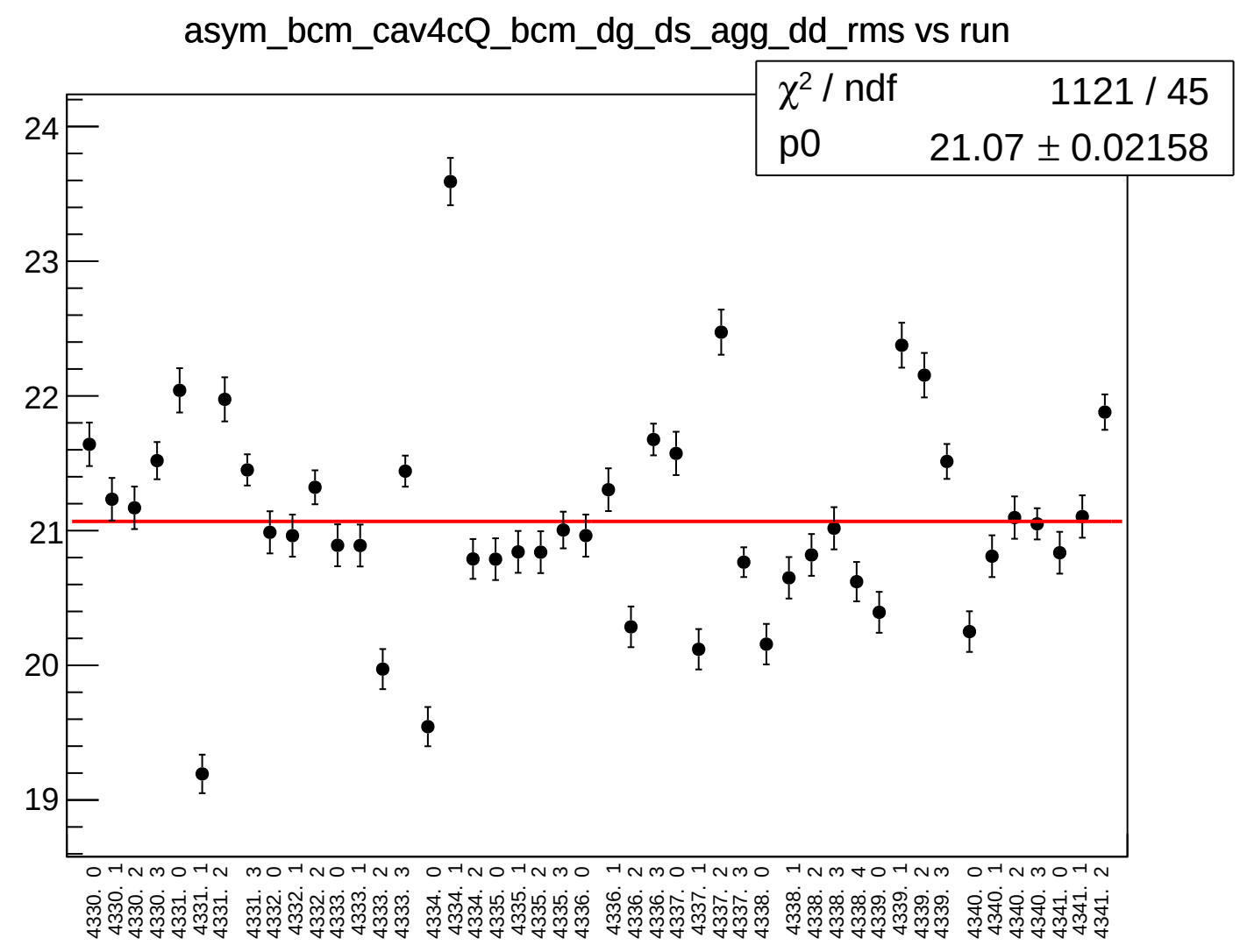
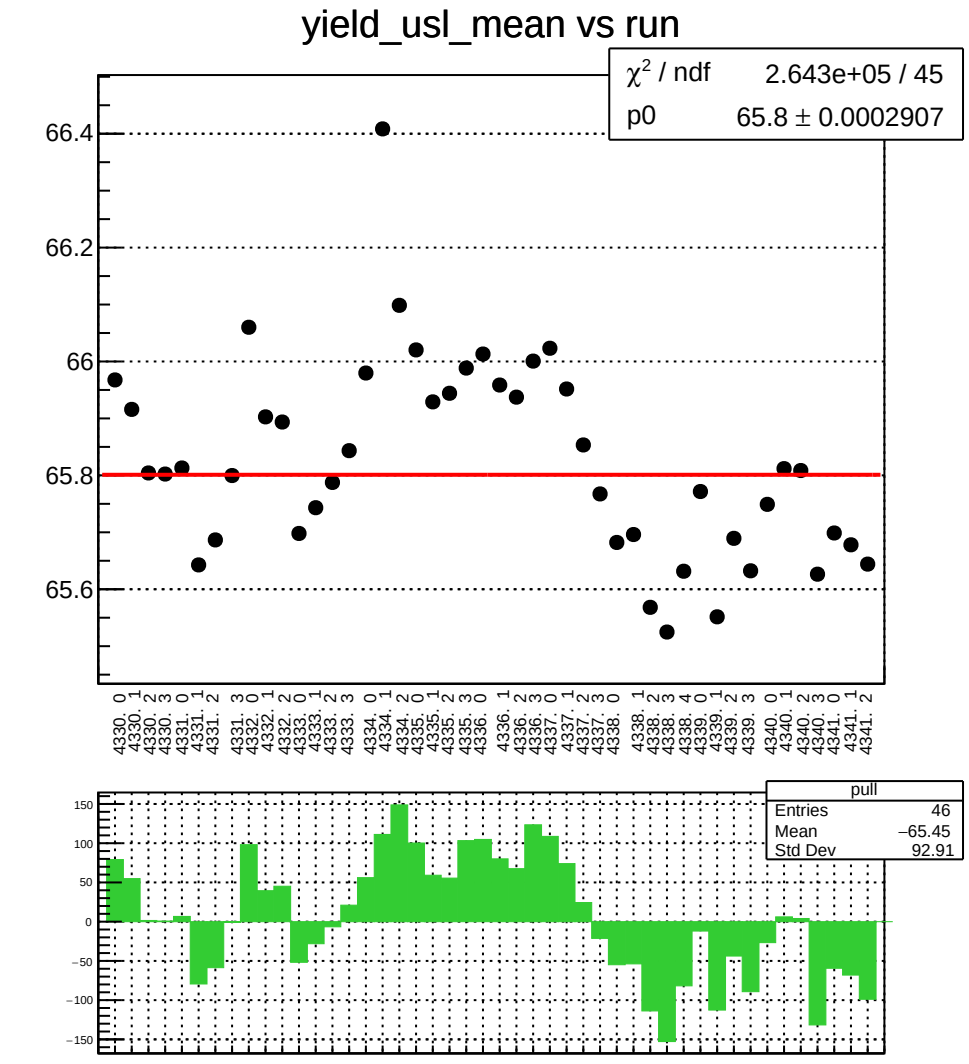
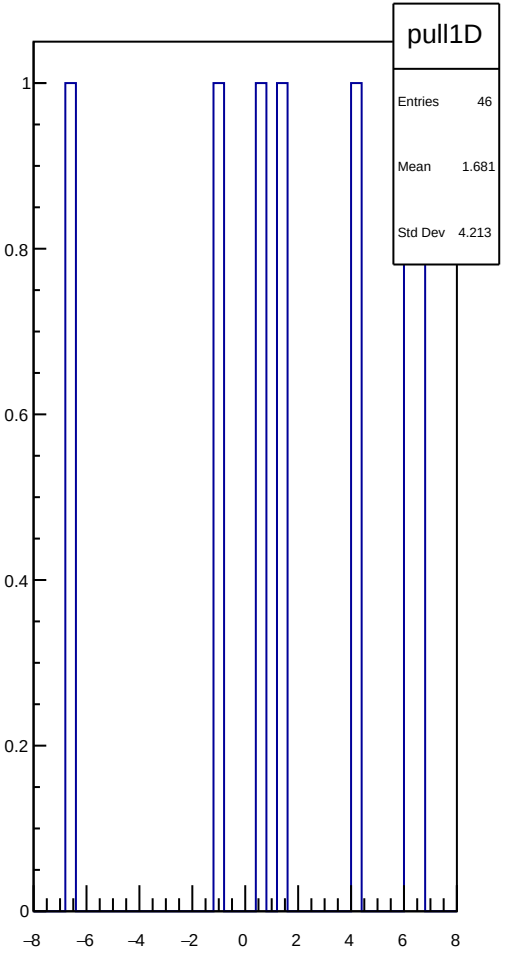
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

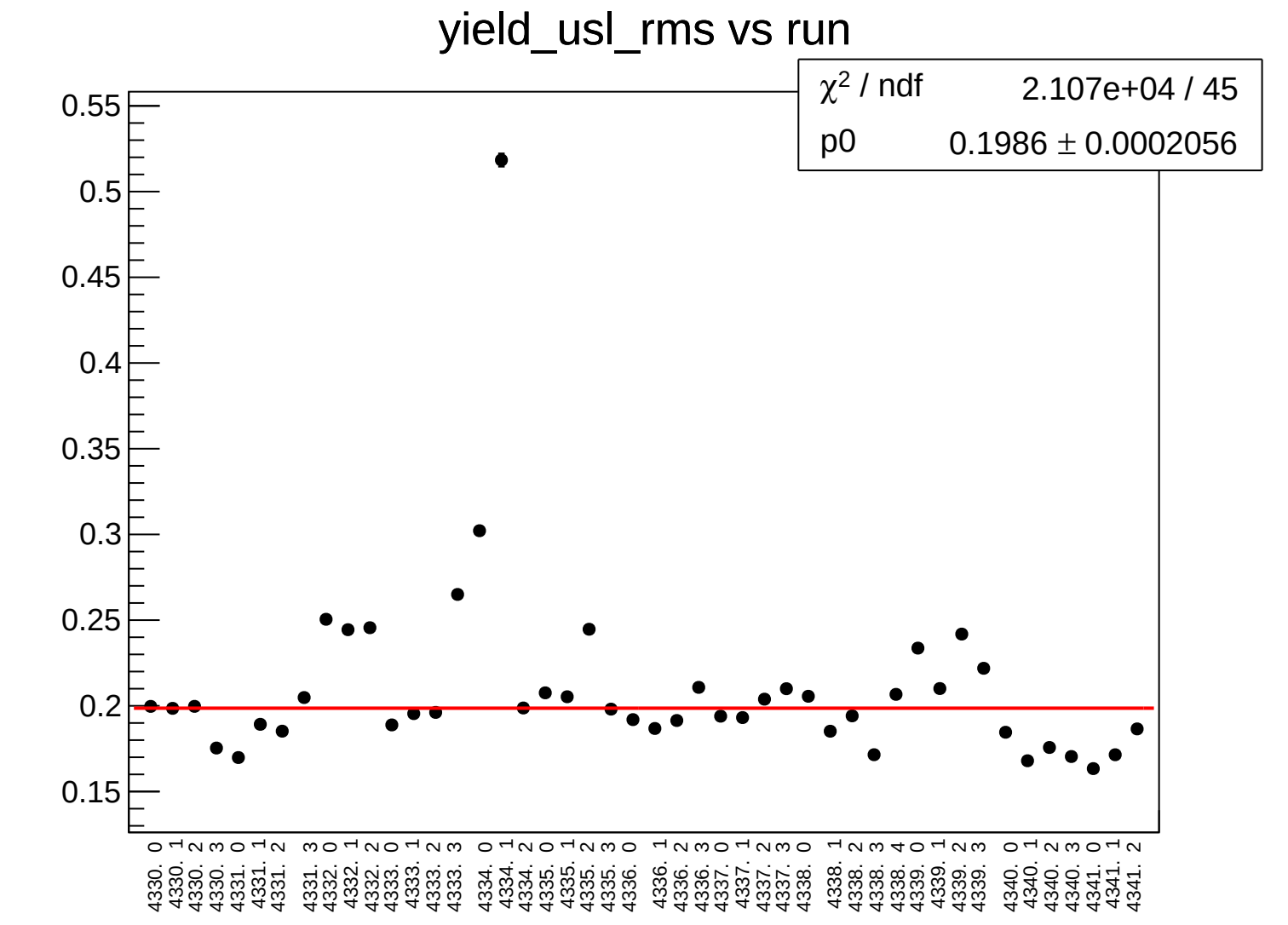

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 50.45 / 45
p0 43.84 ± 30.51
pull
Entries 46
Mean 103.7
Std Dev 85.99

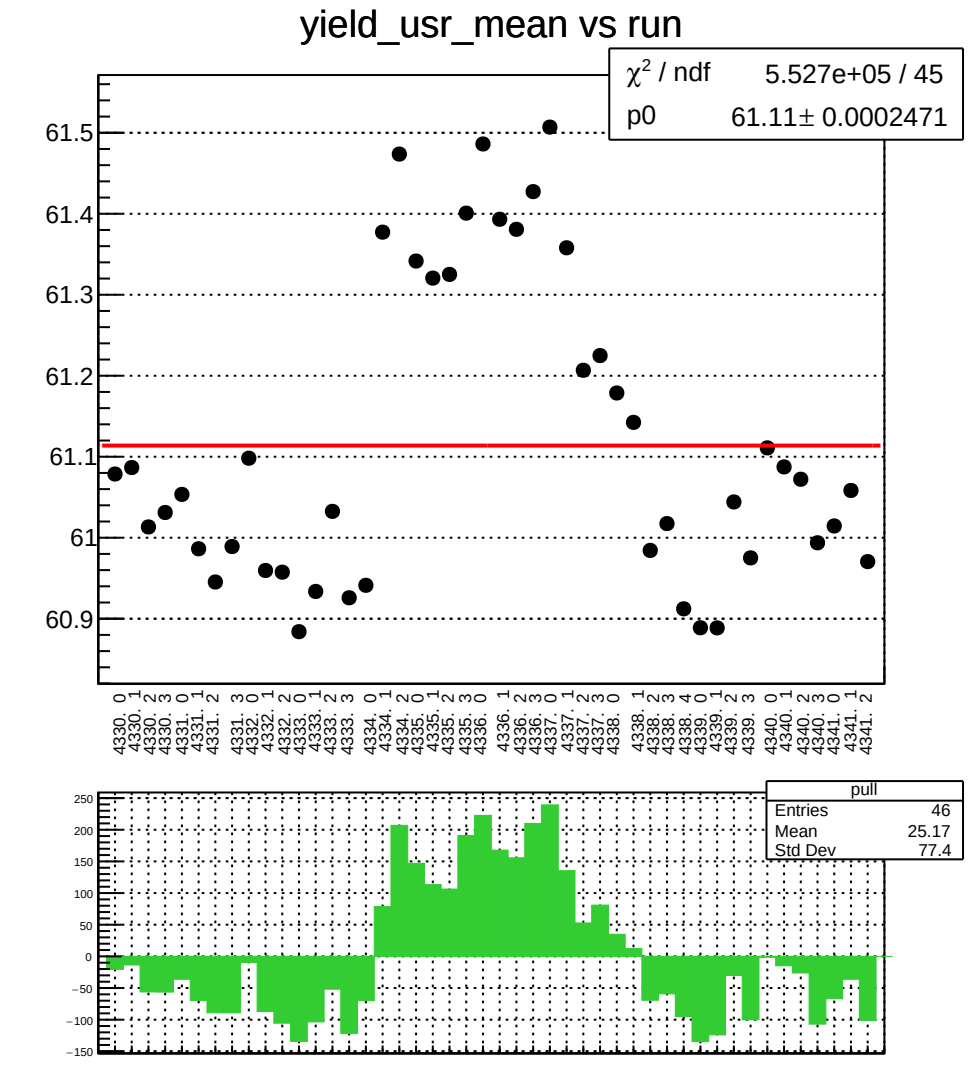

pull1D
Entries 46
Mean −0.01899
Std Dev 1.047

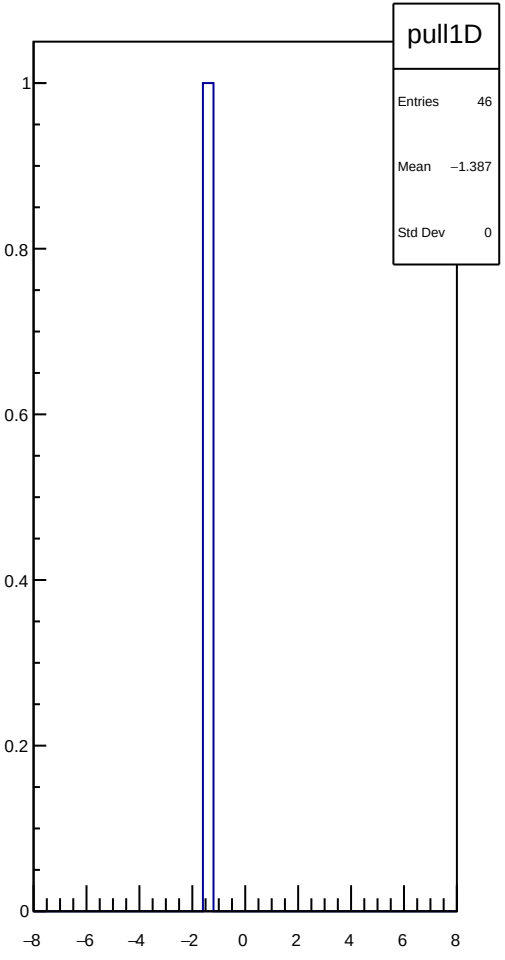

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1121 / 45
p0 21.07 ± 0.02158
24
23
22
21
20
19
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

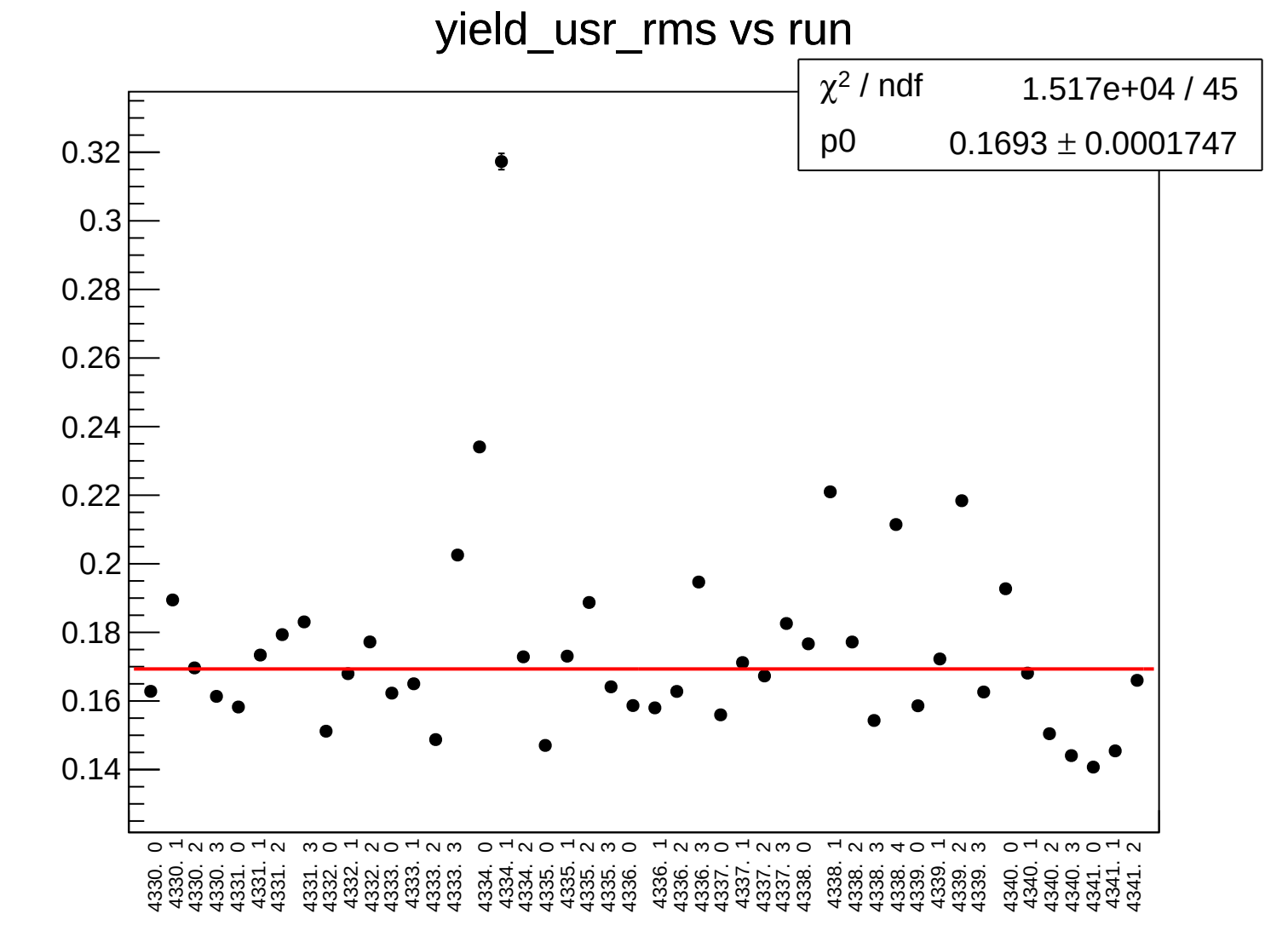

yield_usl_mean vs run
χ² / ndf 2.643e+05 / 45
p0 65.8 ± 0.0002907
66.4
66.2
66
65.8
65.6
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −65.45
Std Dev 92.91
150
100
50
0
−50
−100
−150

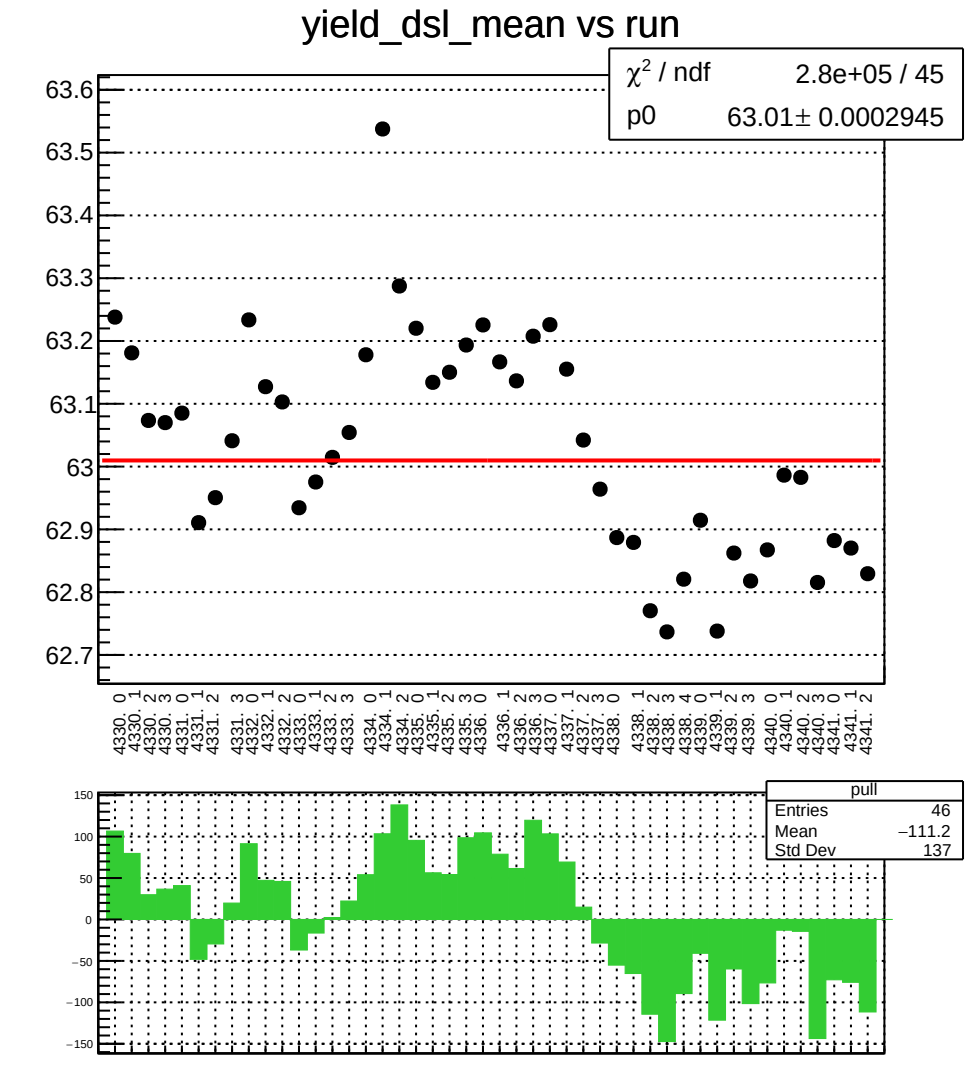

pull1D
Entries 46
Mean 1.681
Std Dev 4.213
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

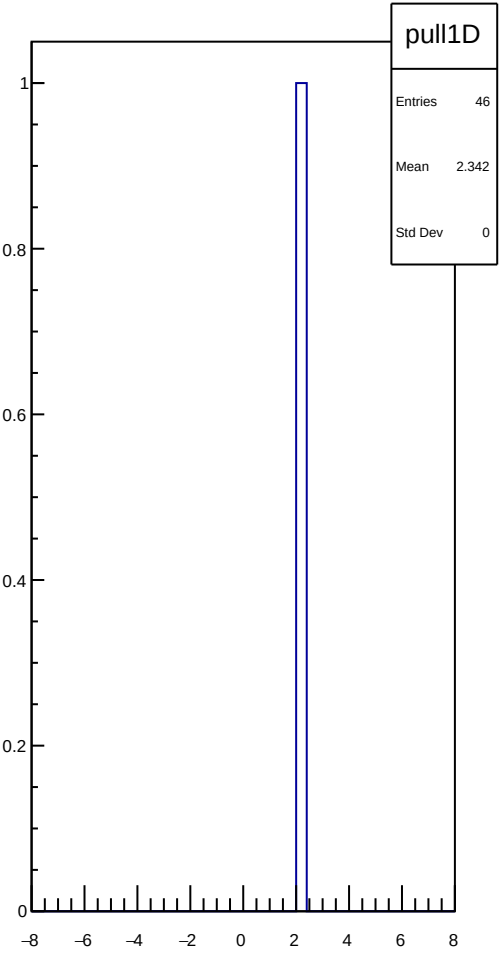

yield_usl_rms vs run
χ² / ndf 2.107e+04 / 45
p0 0.1986 ± 0.0002056
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

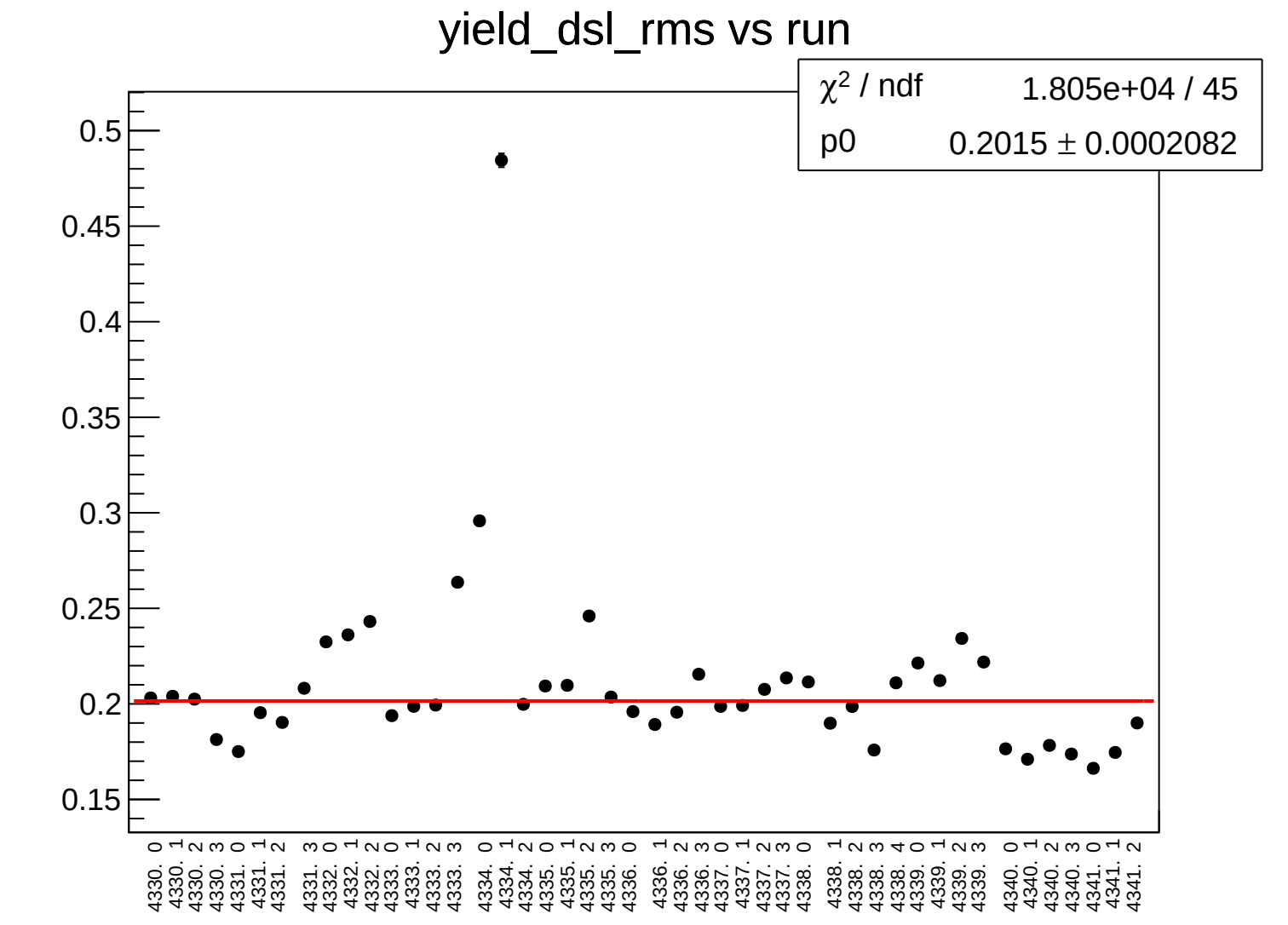

yield_usr_mean vs run
χ² / ndf 5.527e+05 / 45
p0 61.11± 0.0002471
61.5
61.4
61.3
61.2
61.1
61
60.9
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 25.17
Std Dev 77.4
250
200
150
100
50
0
−50
−100
−150

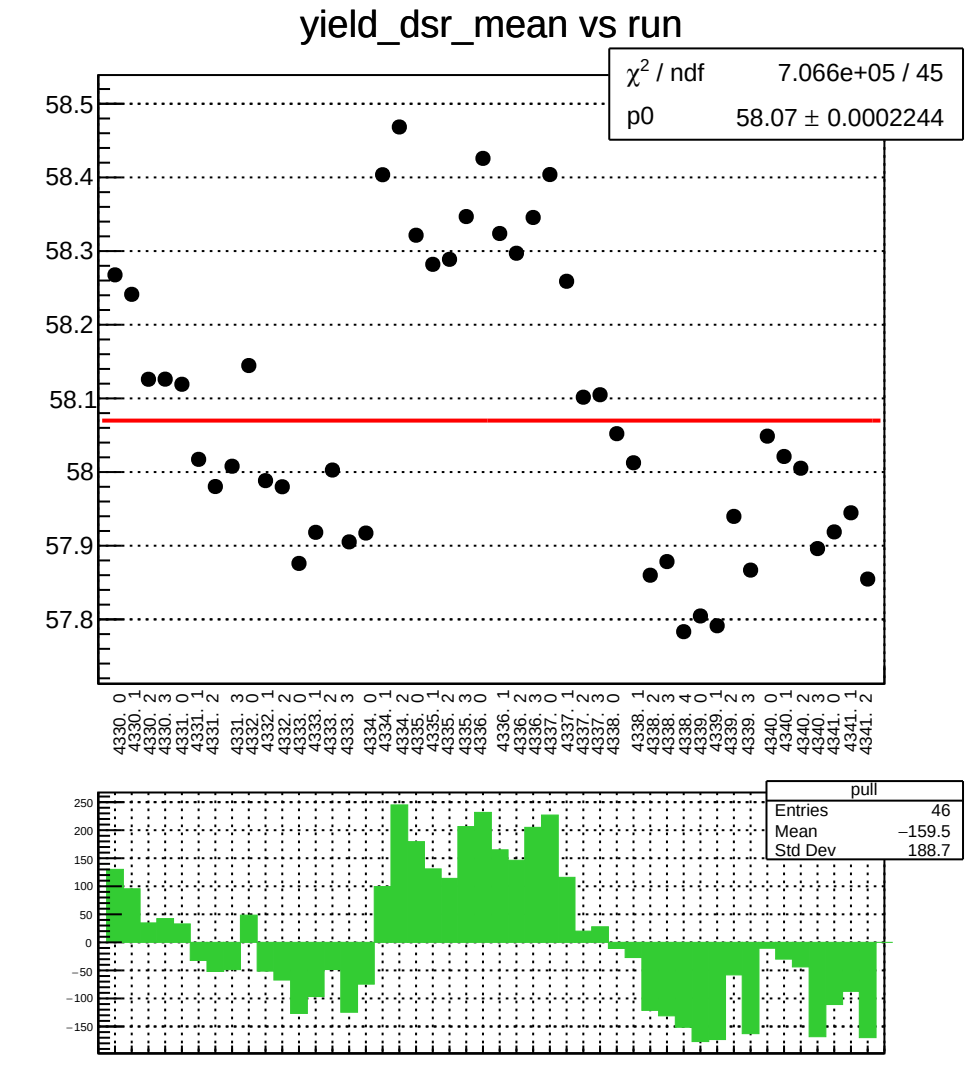

pull1D
Entries 46
Mean −1.387
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

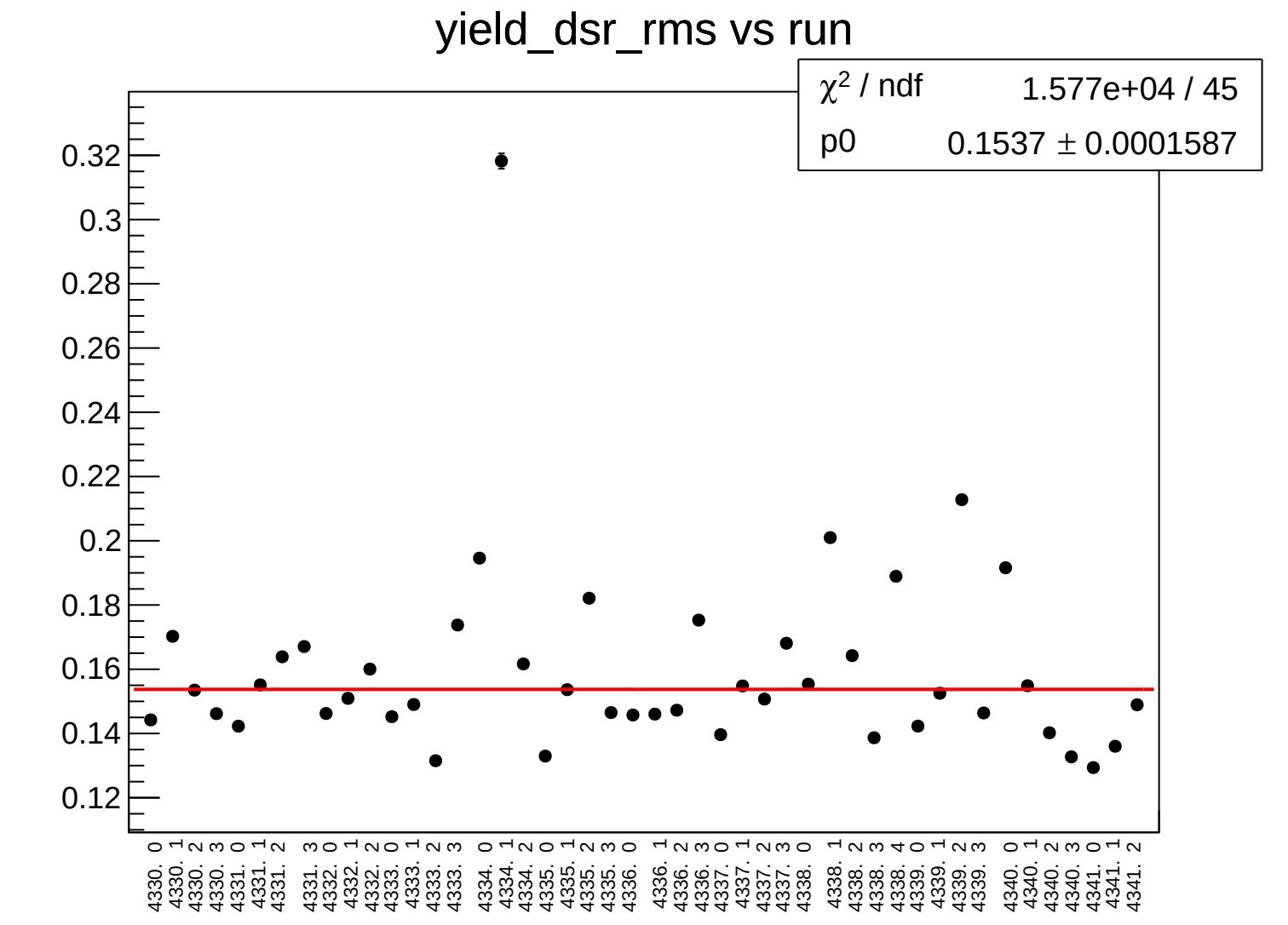

yield_usr_rms vs run
χ² / ndf 1.517e+04 / 45
p0 0.1693 ± 0.0001747
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

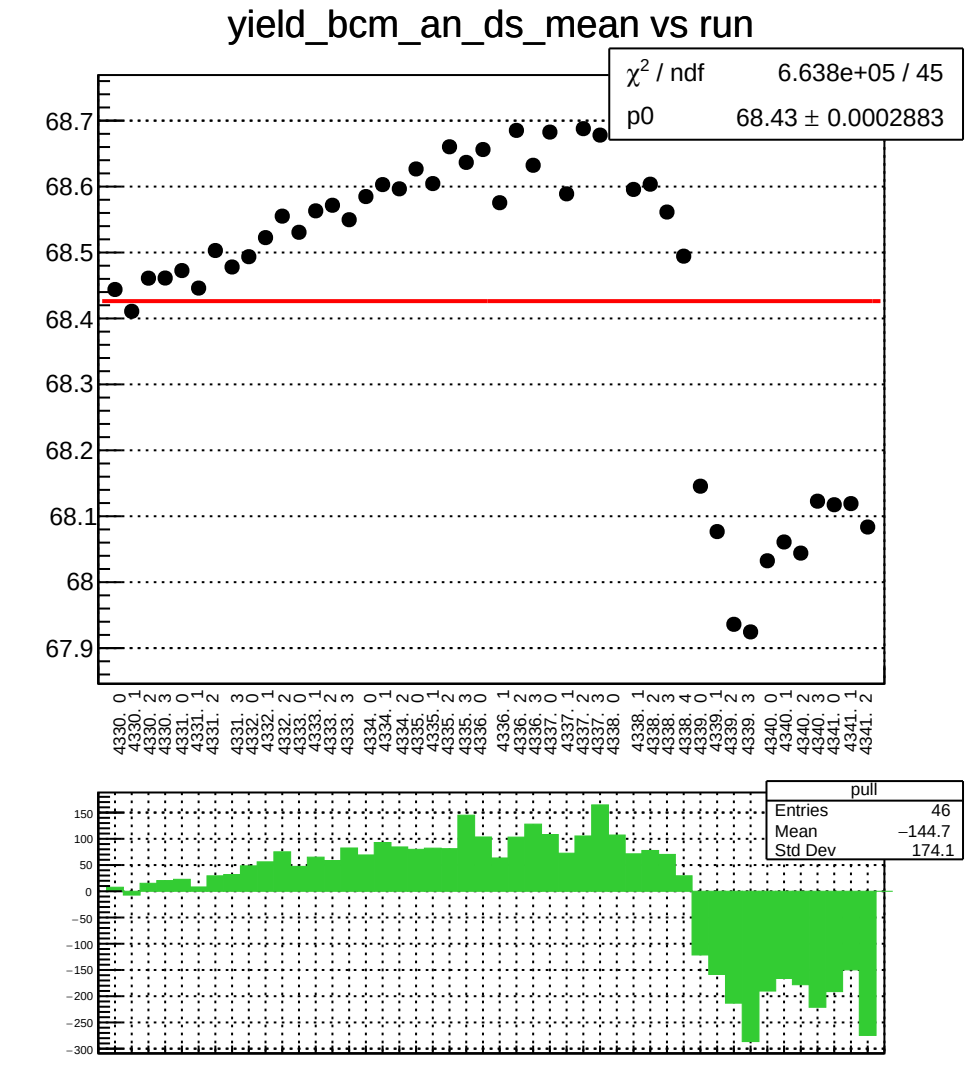

yield_dsl_mean vs run
χ² / ndf 2.8e+05 / 45
p0 63.01± 0.0002945
63.6
63.5
63.4
63.3
63.2
63.1
63
62.9
62.8
62.7
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −111.2
Std Dev 137
150
100
50
0
−50
−100
−150

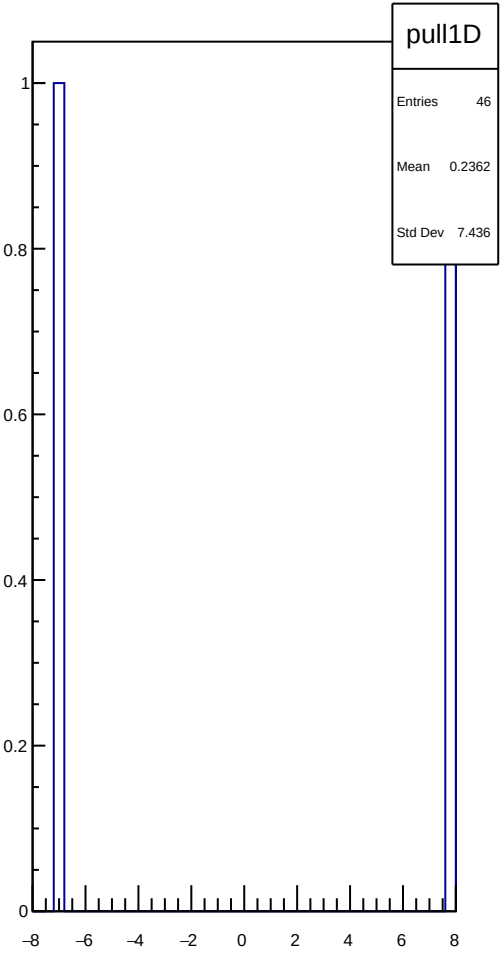

pull1D
Entries 46
Mean 2.342
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

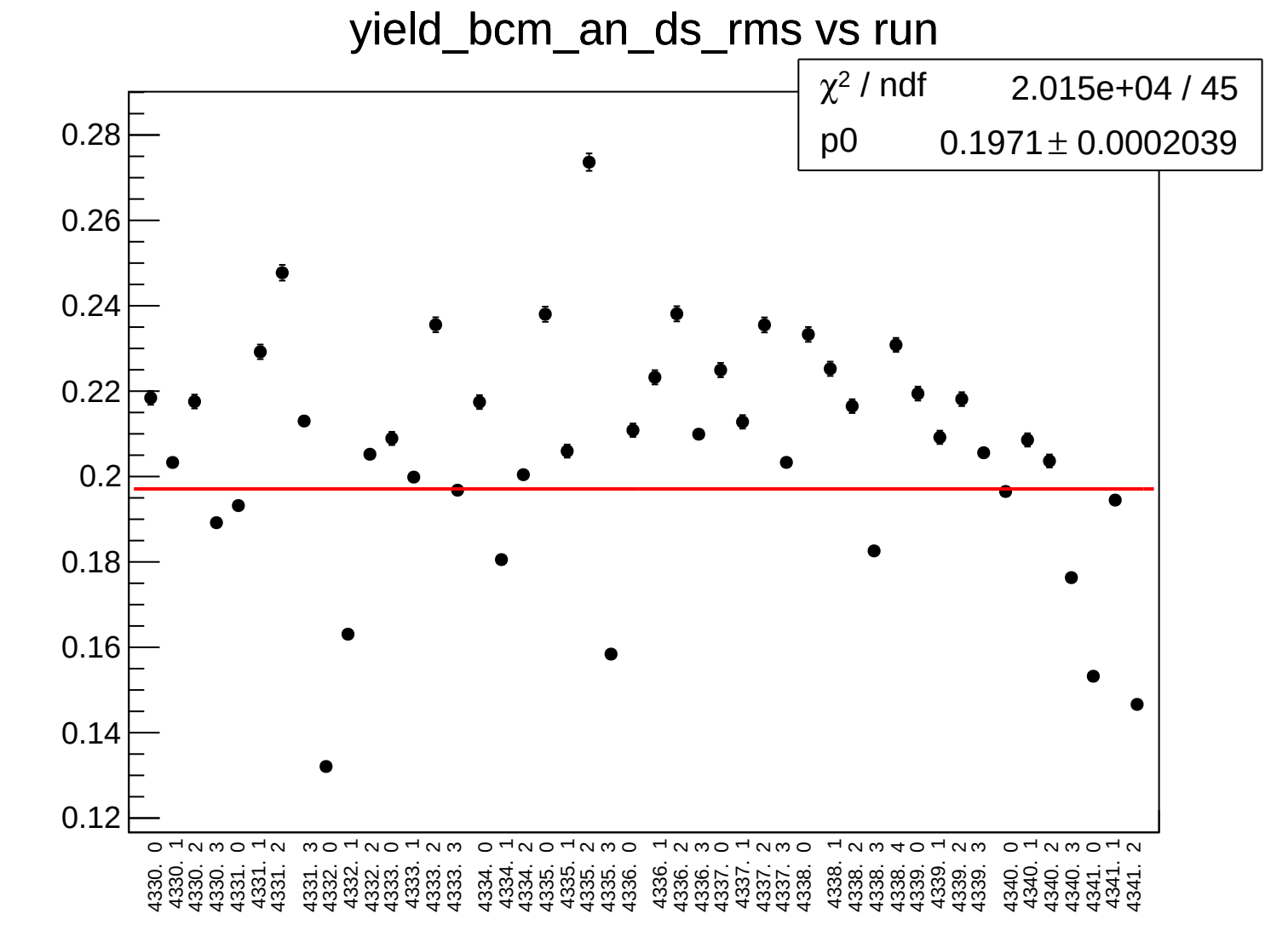

yield_dsl_rms vs run
χ² / ndf 1.805e+04 / 45
p0 0.2015 ± 0.0002082
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


yield_dsr_mean vs run
χ² / ndf 7.066e+05 / 45
p0 58.07 ± 0.0002244
58.5
58.4
58.3
58.2
58.1
58
57.9
57.8
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −159.5
Std Dev 188.7
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsr_rms vs run
χ² / ndf 1.577e+04 / 45
p0 0.1537 ± 0.0001587
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


yield_bcm_an_ds_mean vs run
χ² / ndf 6.638e+05 / 45
p0 68.43 ± 0.0002883
68.7
68.6
68.5
68.4
68.3
68.2
68.1
68
67.9
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −144.7
Std Dev 174.1
150
100
50
0
−50
−100
−150
−200
−250
−300


pull1D
Entries 46
Mean 0.2362
Std Dev 7.436
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 2.015e+04 / 45
p0 0.1971 ± 0.0002039
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
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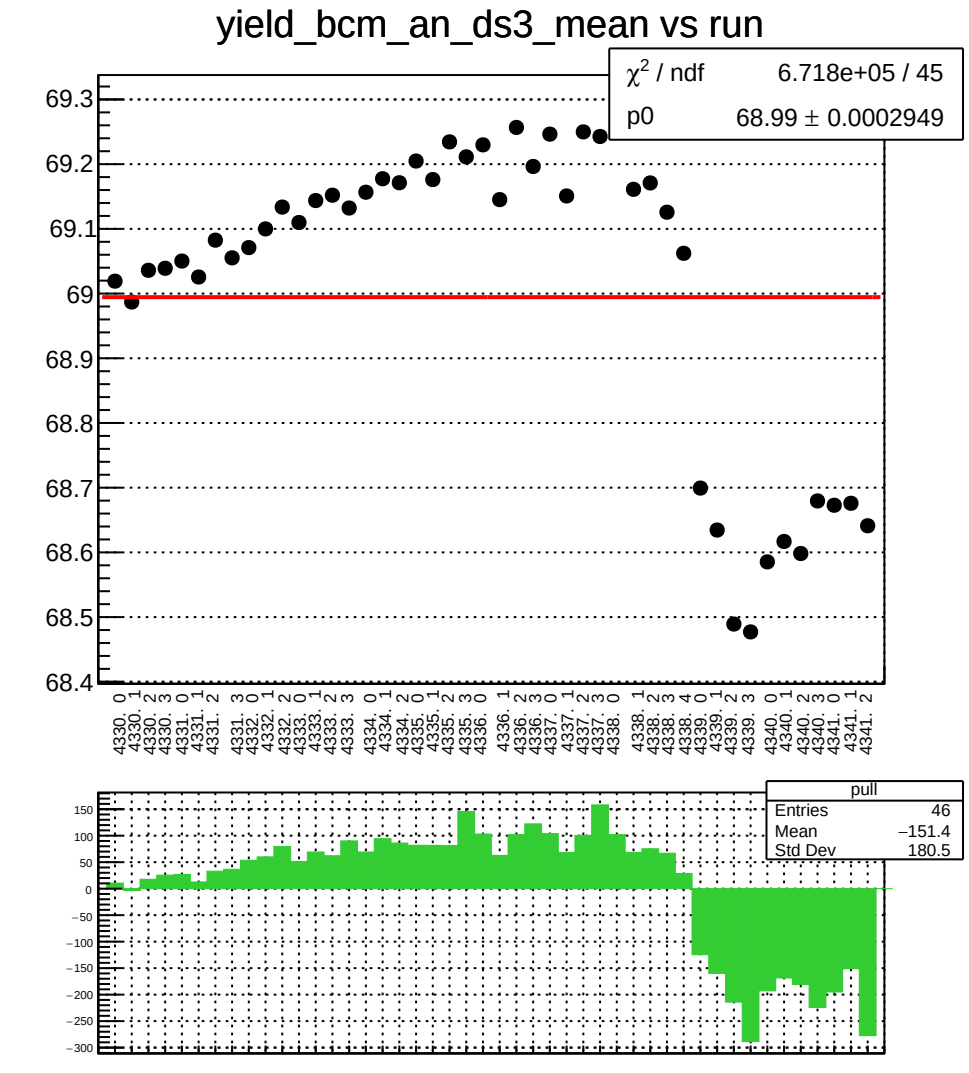
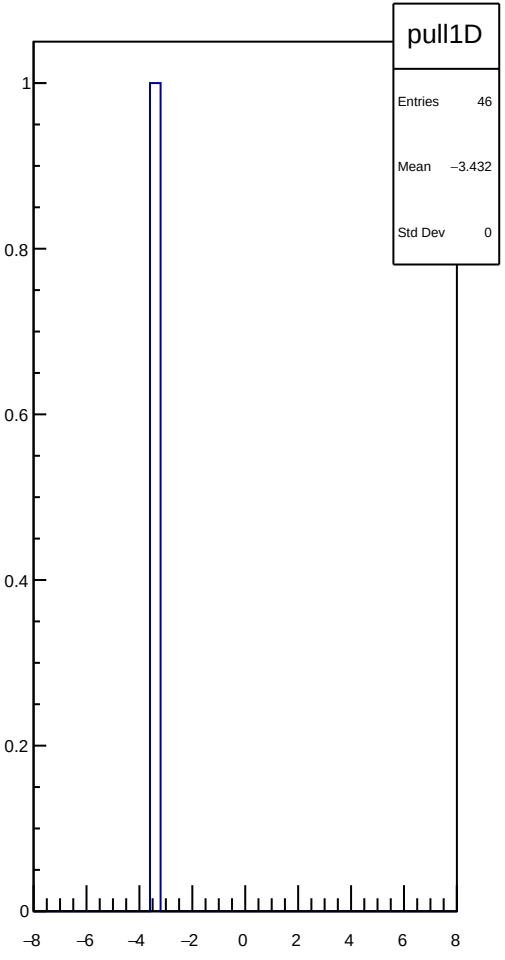
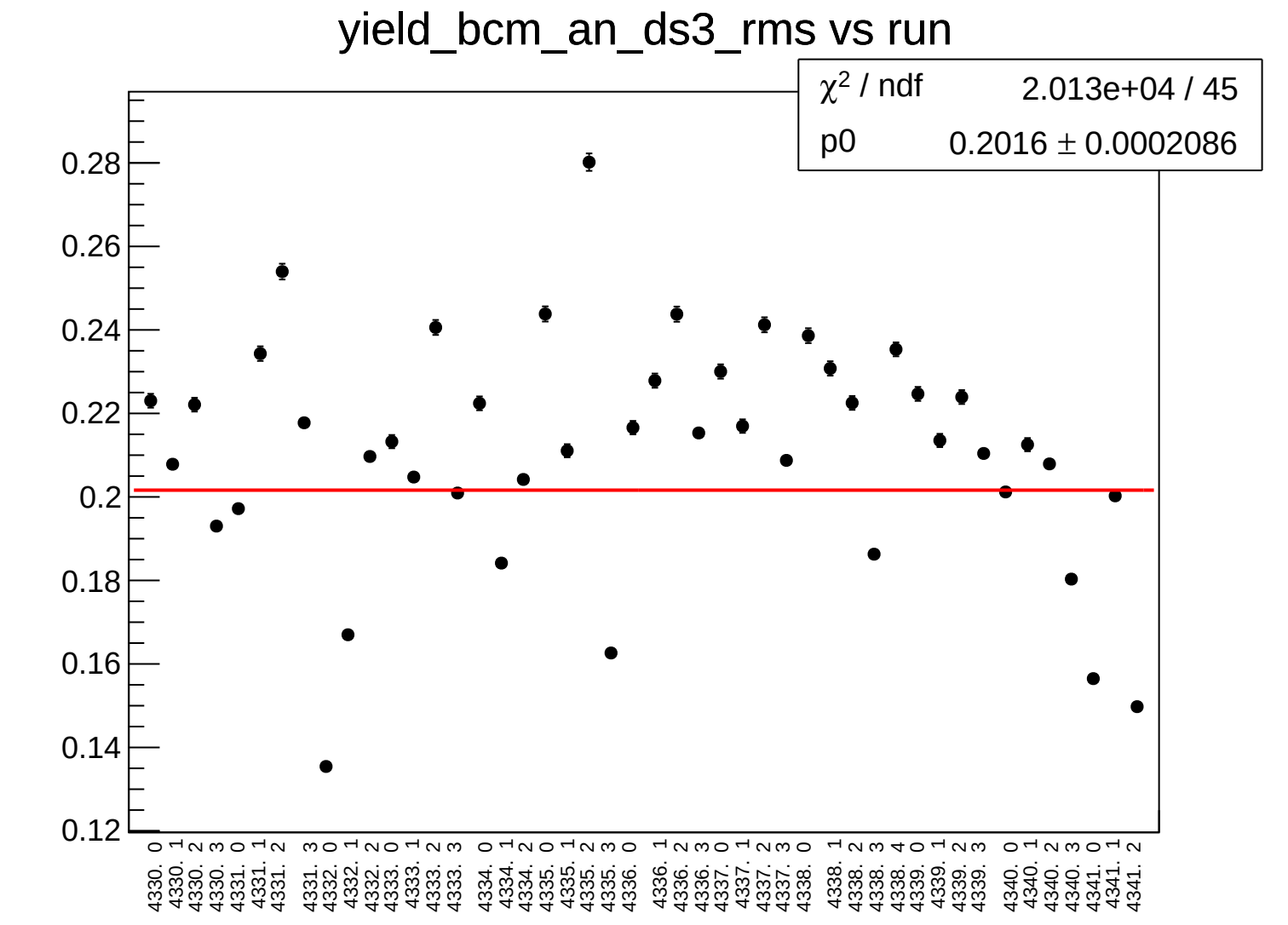
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


yield_bcm_an_ds3_mean vs run
χ² / ndf 6.718e+05 / 45
p0 68.99 ± 0.0002949
pull
Entries 46
Mean −151.4
Std Dev 180.5


pull1D
Entries 46
Mean −3.432
Std Dev 0


yield_bcm_an_ds3_rms vs run
χ² / ndf 2.013e+04 / 45
p0 0.2016 ± 0.0002086
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
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4334. 1
4334. 2
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4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
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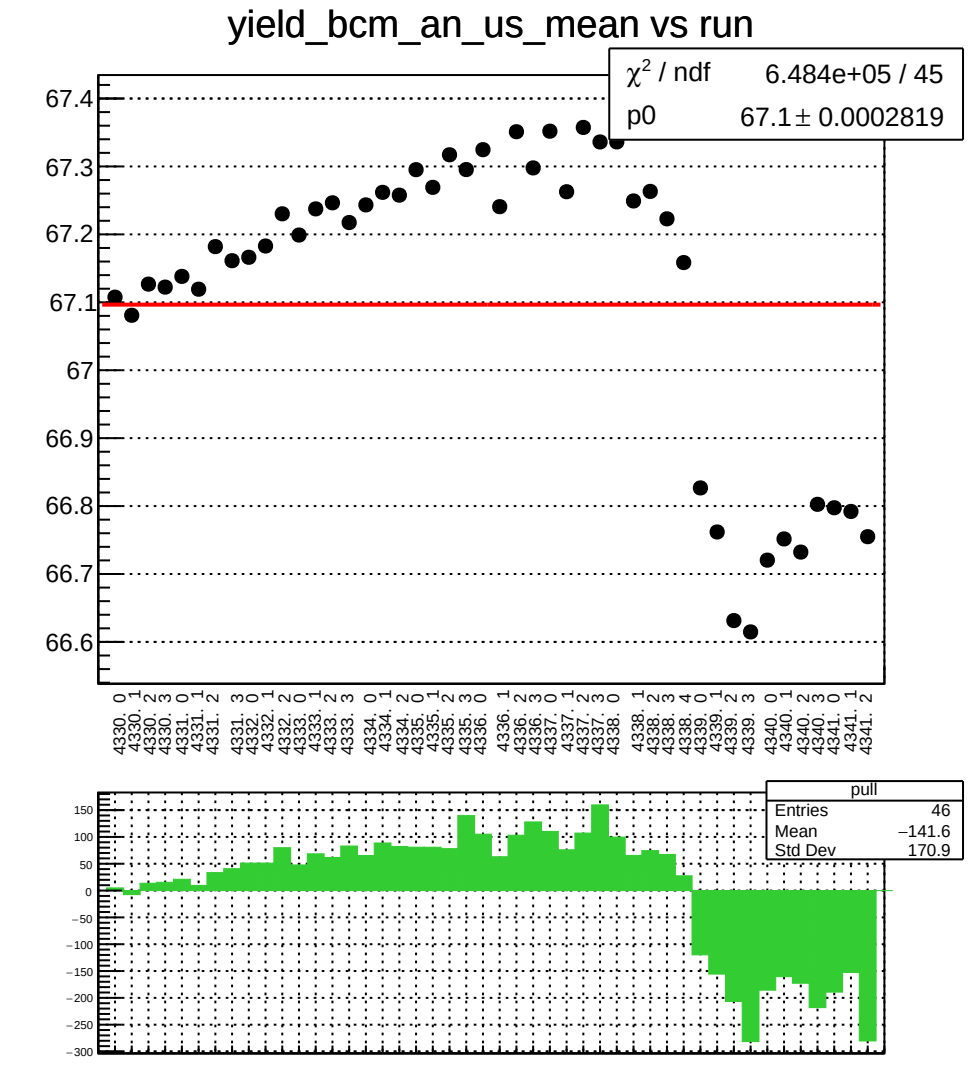
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


yield_bcm_an_us_mean vs run
χ² / ndf 6.484e+05 / 45
p0 67.1 ± 0.0002819
67.4
67.3
67.2
67.1
67
66.9
66.8
66.7
66.6
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
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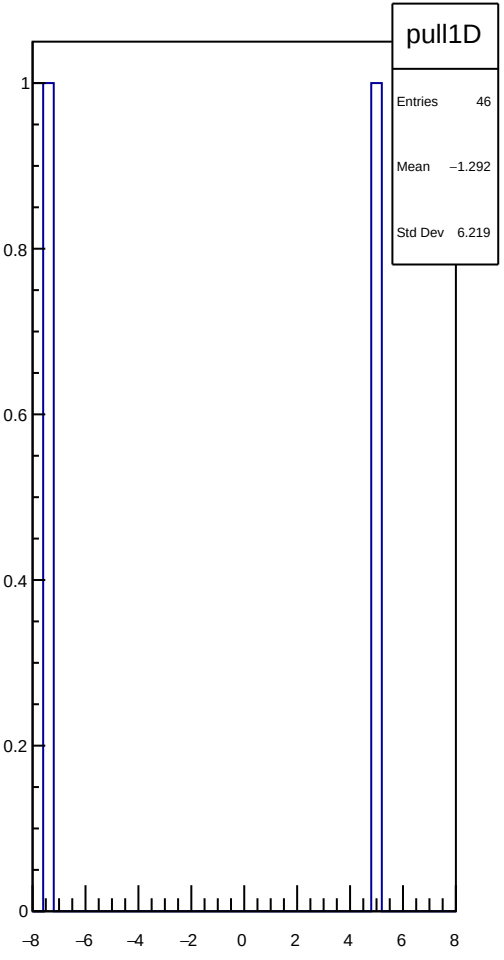
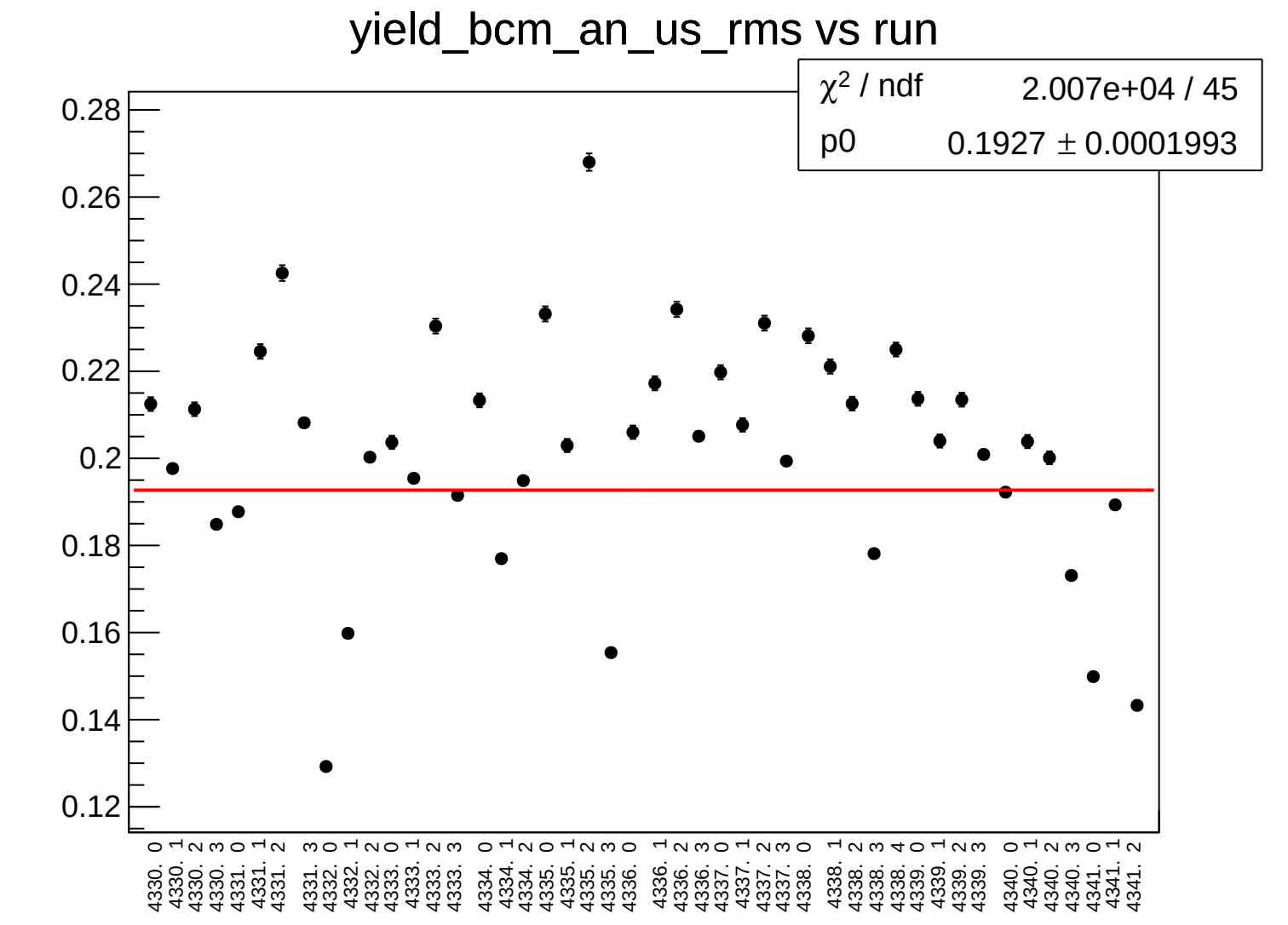
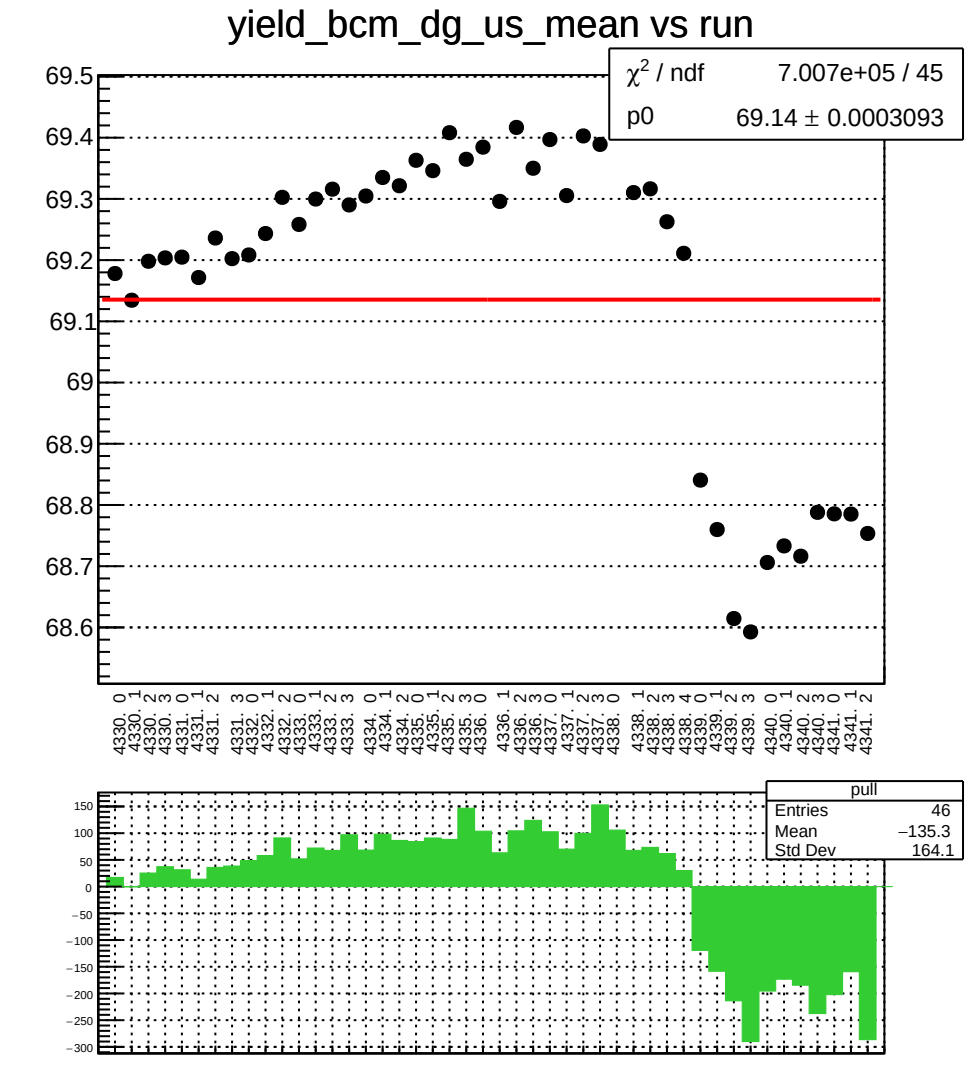
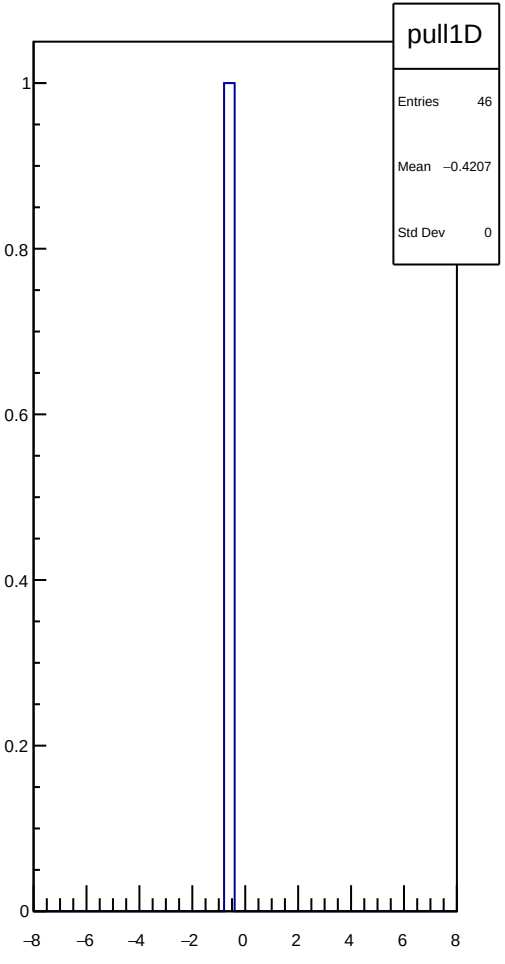
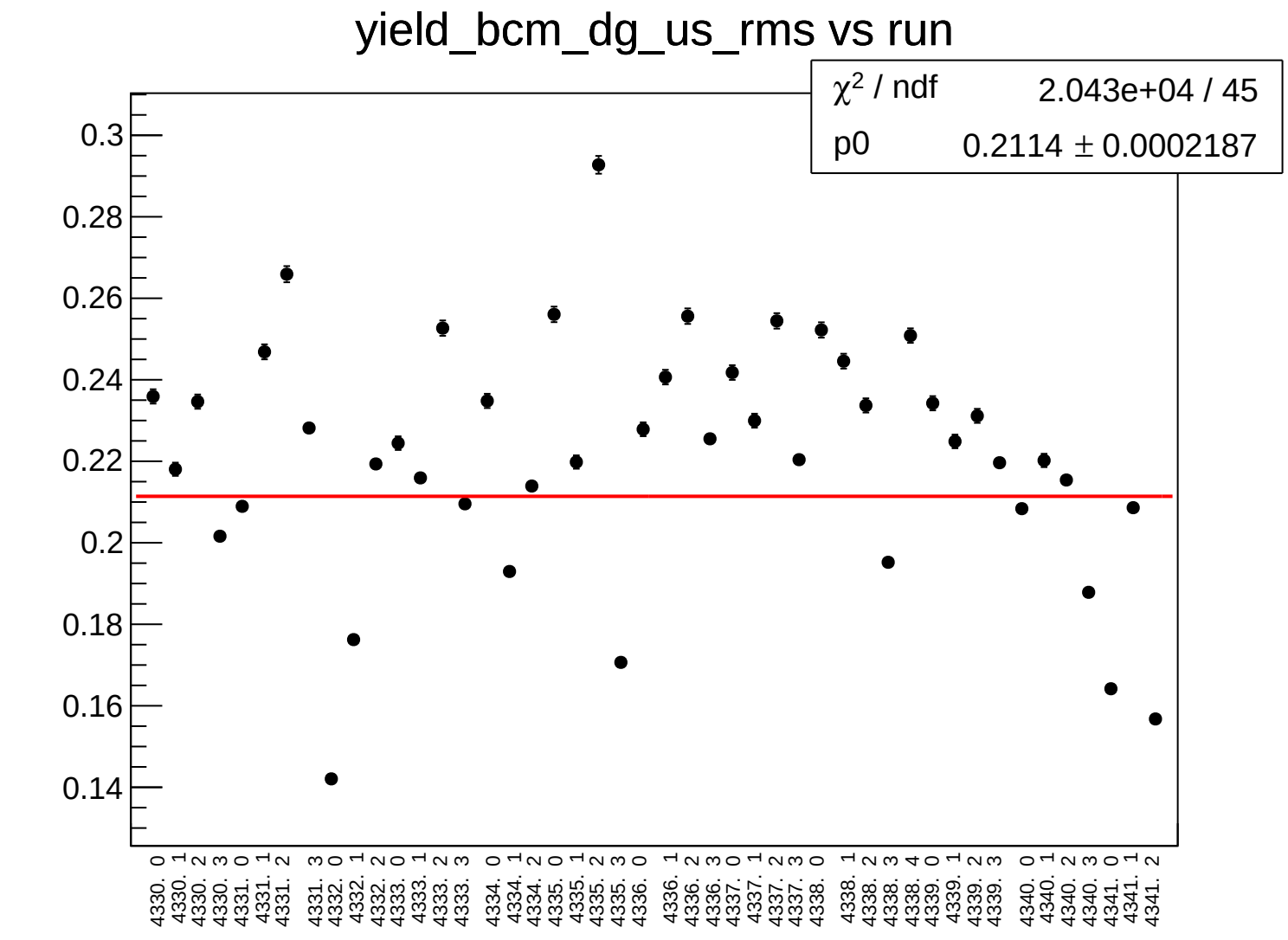
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −141.6
Std Dev 170.9
150
100
50
0
−50
−100
−150
−200
−250
−300

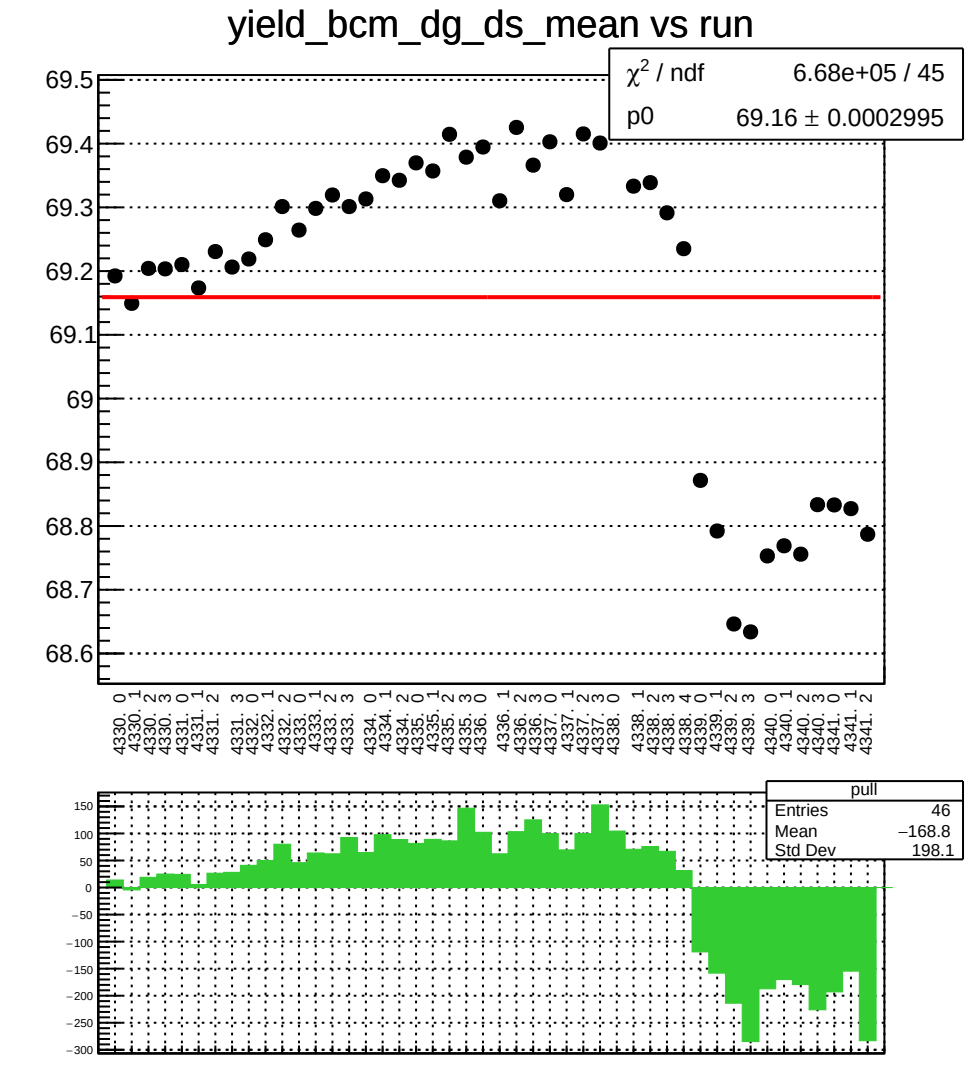

pull1D
Entries 46
Mean −1.292
Std Dev 6.219
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

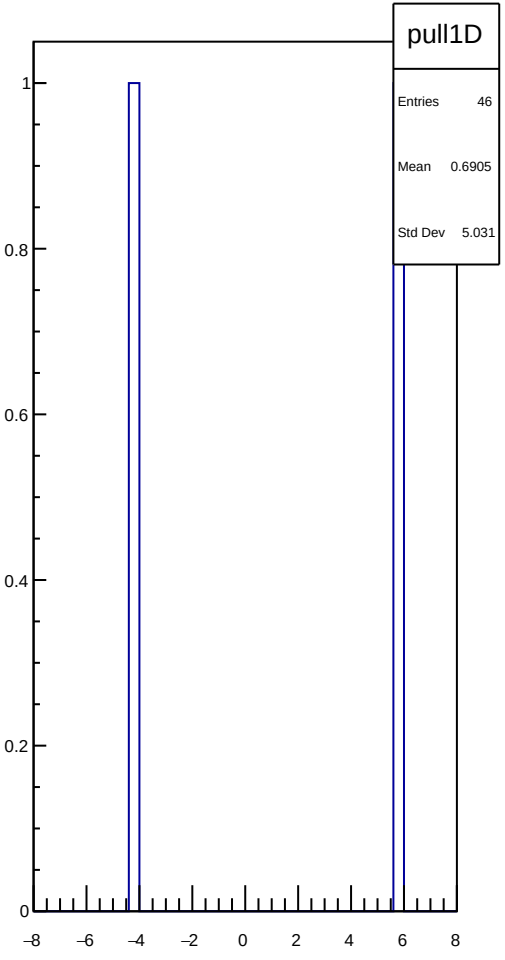

yield_bcm_an_us_rms vs run
χ² / ndf 2.007e+04 / 45
p0 0.1927 ± 0.0001993
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

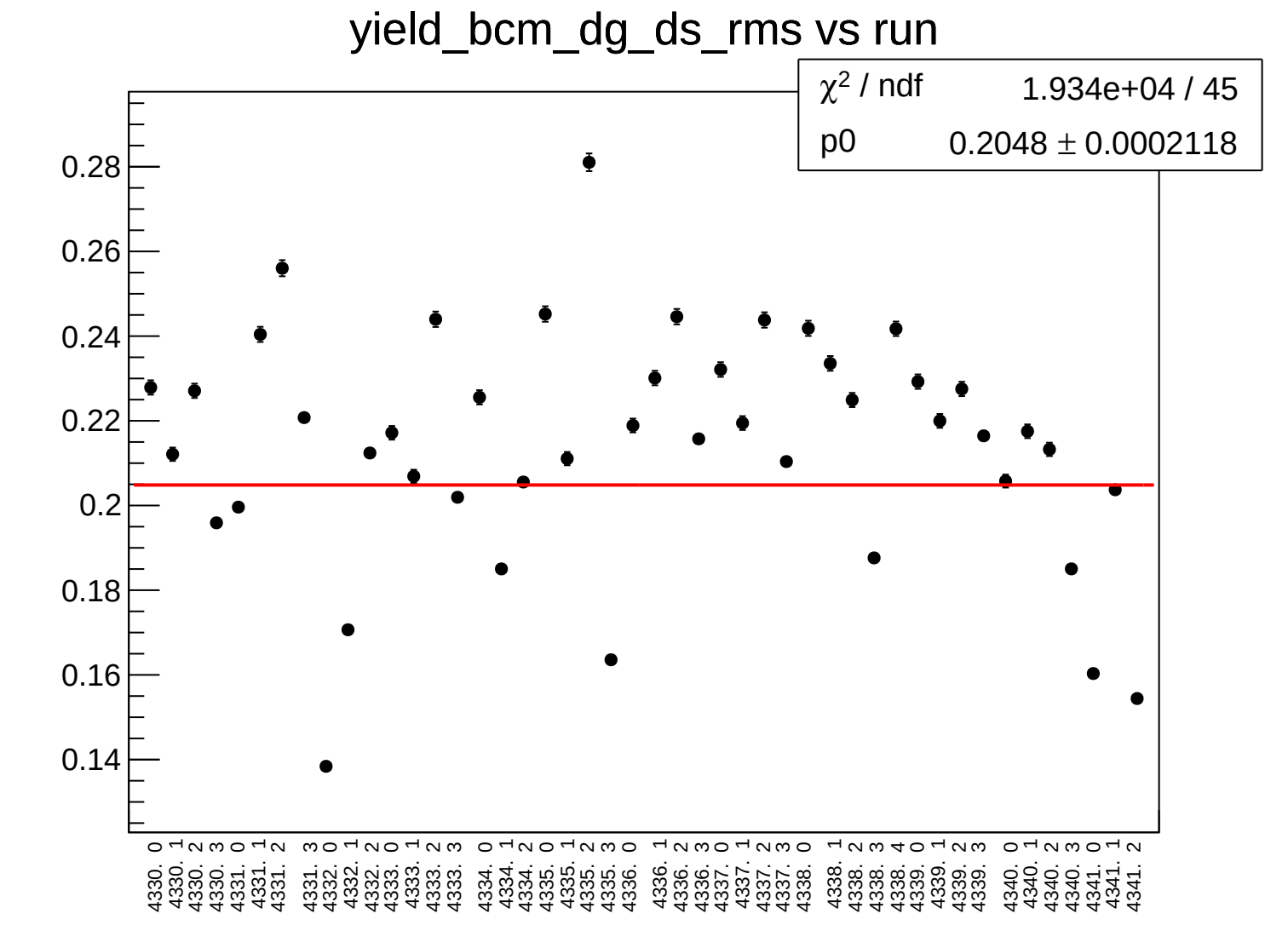

yield_bcm_dg_us_mean vs run
χ² / ndf 7.007e+05 / 45
p0 69.14 ± 0.0003093
pull
Entries 46
Mean −135.3
Std Dev 164.1

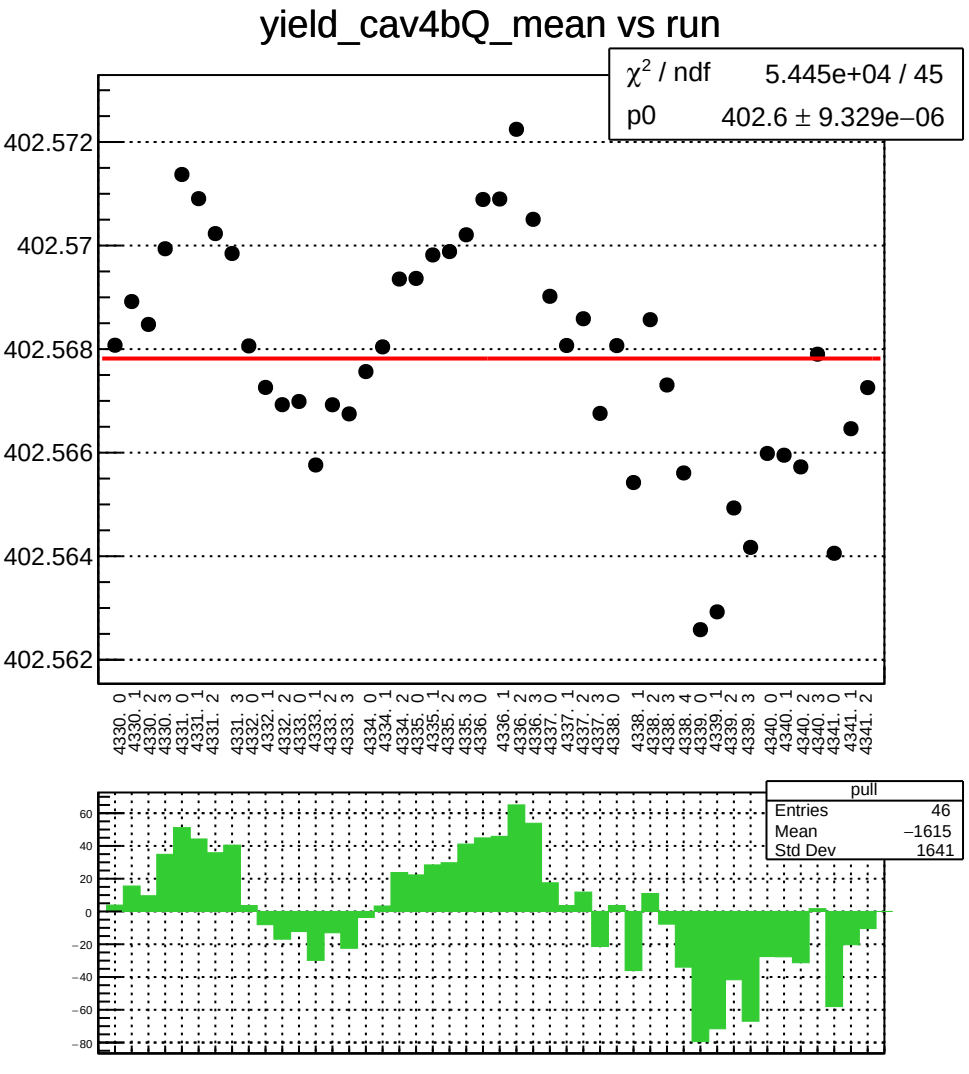

pull1D
Entries 46
Mean −0.4207
Std Dev 0

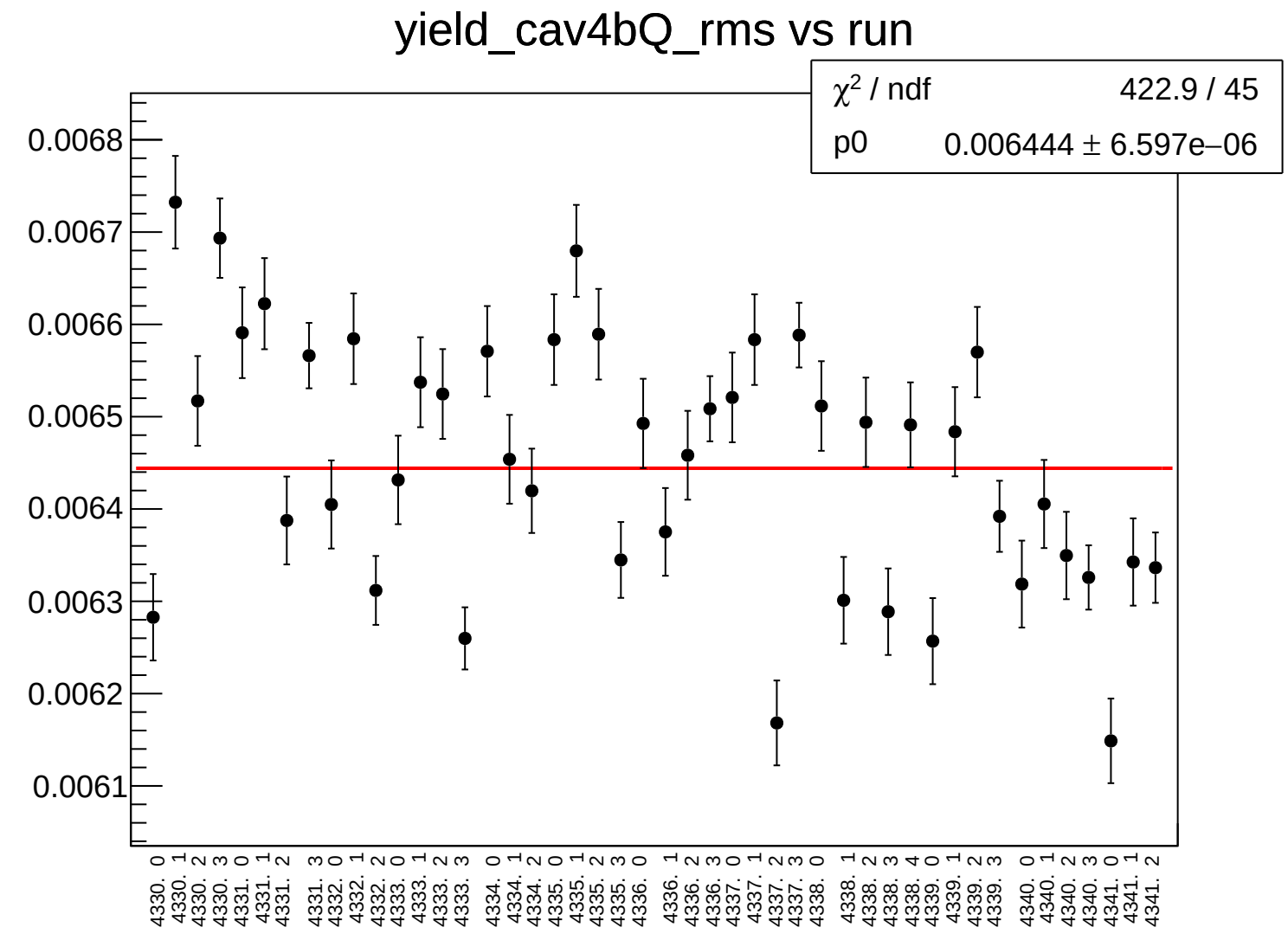

yield_bcm_dg_us_rms vs run
χ² / ndf 2.043e+04 / 45
p0 0.2114 ± 0.0002187
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

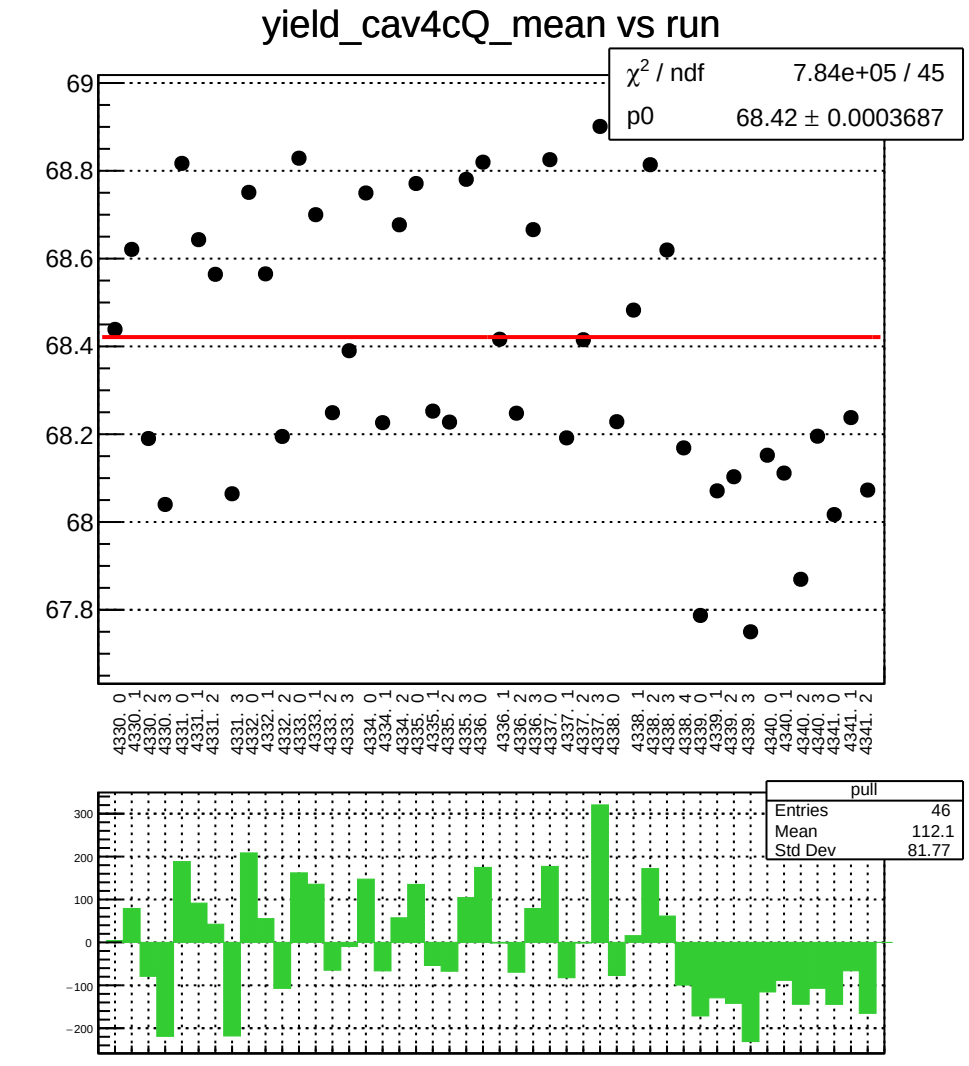

yield_bcm_dg_ds_mean vs run
χ² / ndf 6.68e+05 / 45
p0 69.16 ± 0.0002995
pull
Entries 46
Mean −168.8
Std Dev 198.1

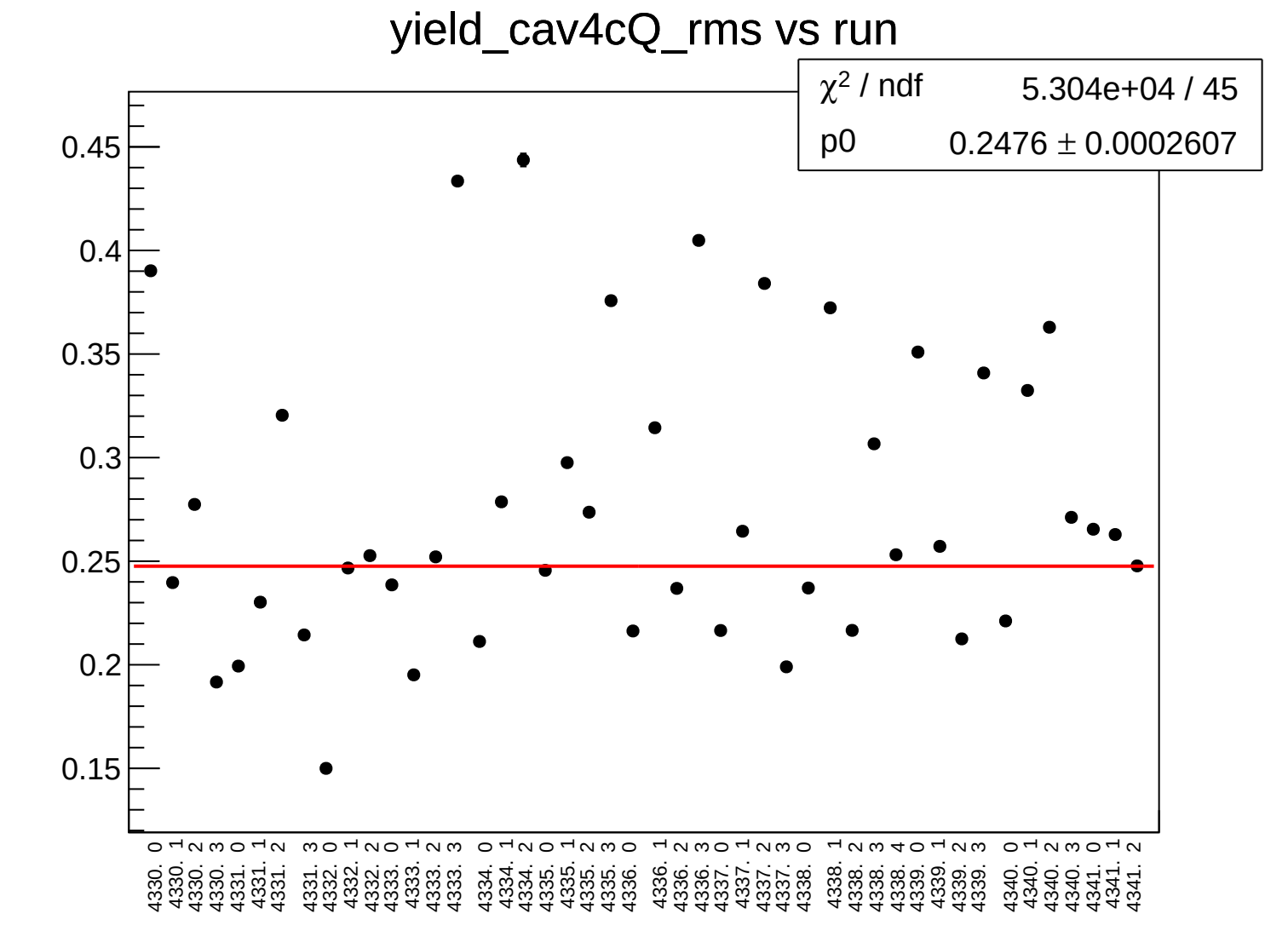

pull1D
Entries 46
Mean 0.6905
Std Dev 5.031

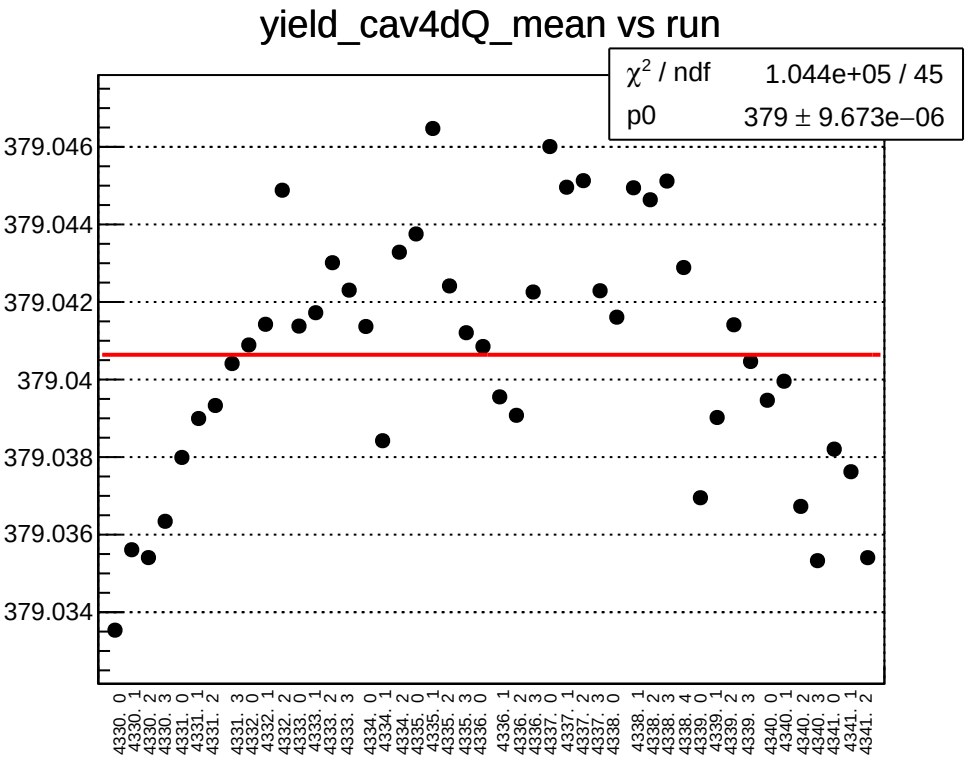

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.934e+04 / 45
p0 0.2048 ± 0.0002118
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

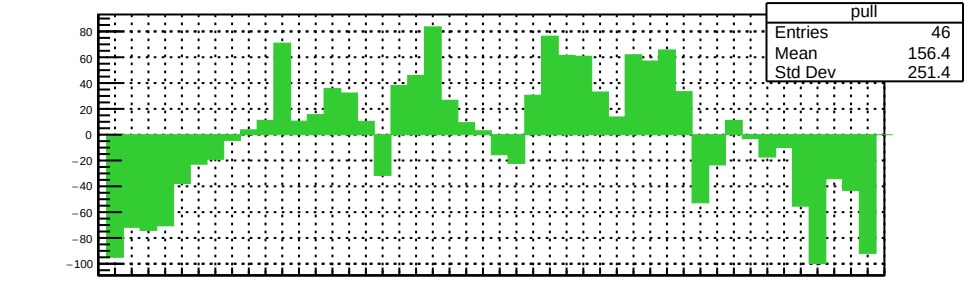

yield_cav4bQ_mean vs run
χ² / ndf 5.445e+04 / 45
p0 402.6 ± 9.329e−06
402.572
402.57
402.568
402.566
402.564
402.562
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1615
Std Dev 1641
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean 1.052
Std Dev 4.066
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

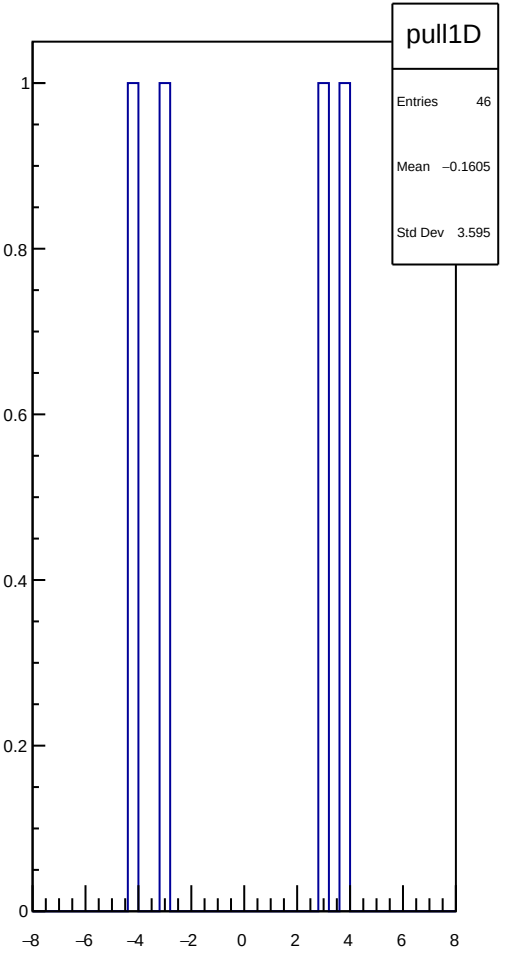

yield_cav4bQ_rms vs run
χ² / ndf 422.9 / 45
p0 0.006444 ± 6.597e−06
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

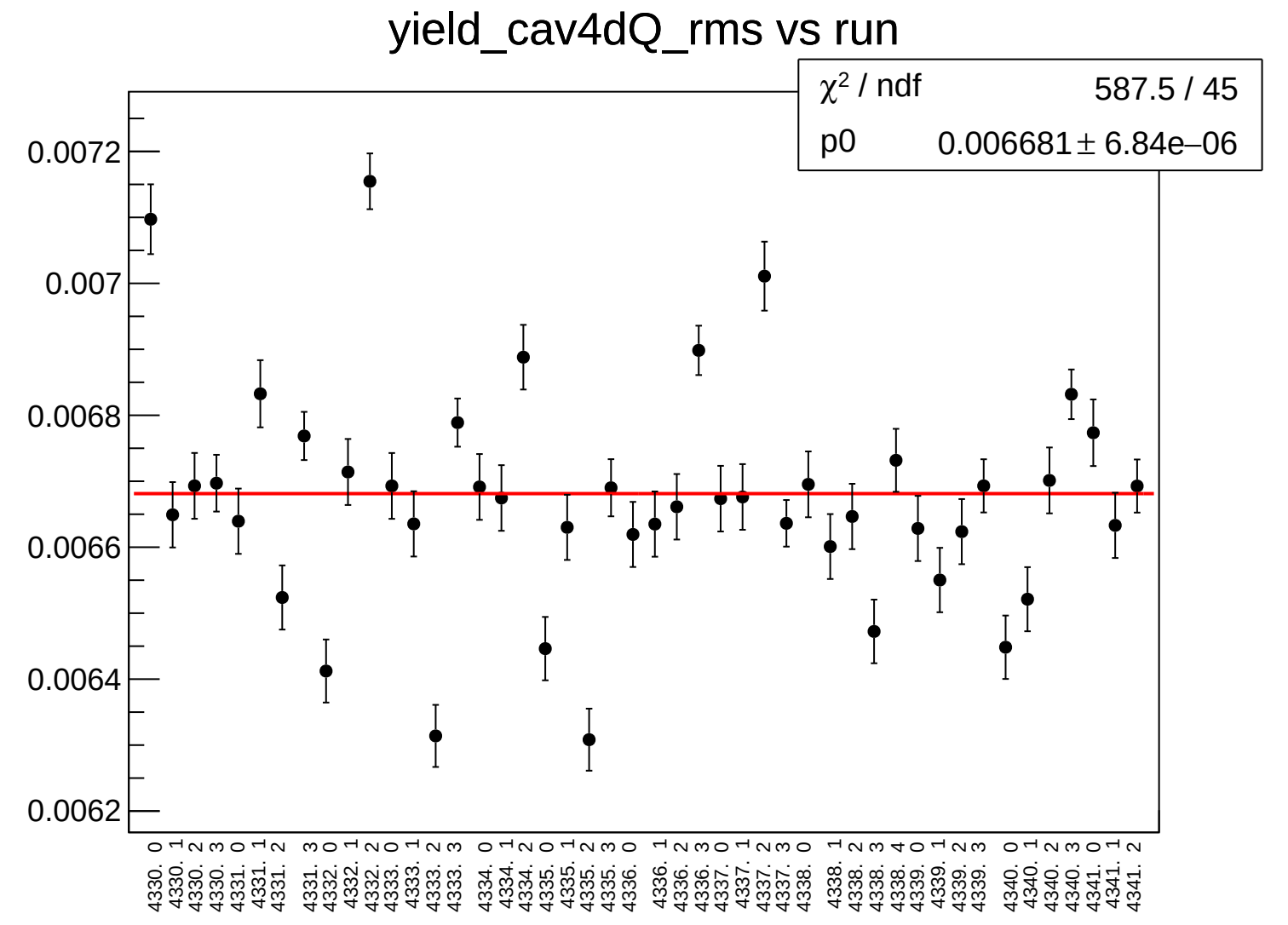

yield_cav4cQ_mean vs run
χ² / ndf 7.84e+05 / 45
p0 68.42 ± 0.0003687
69
68.8
68.6
68.4
68.2
68
67.8
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 112.1
Std Dev 81.77
300
200
100
0
−100
−200
pull1D
Entries 46
Mean 0.4408
Std Dev 2.705
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

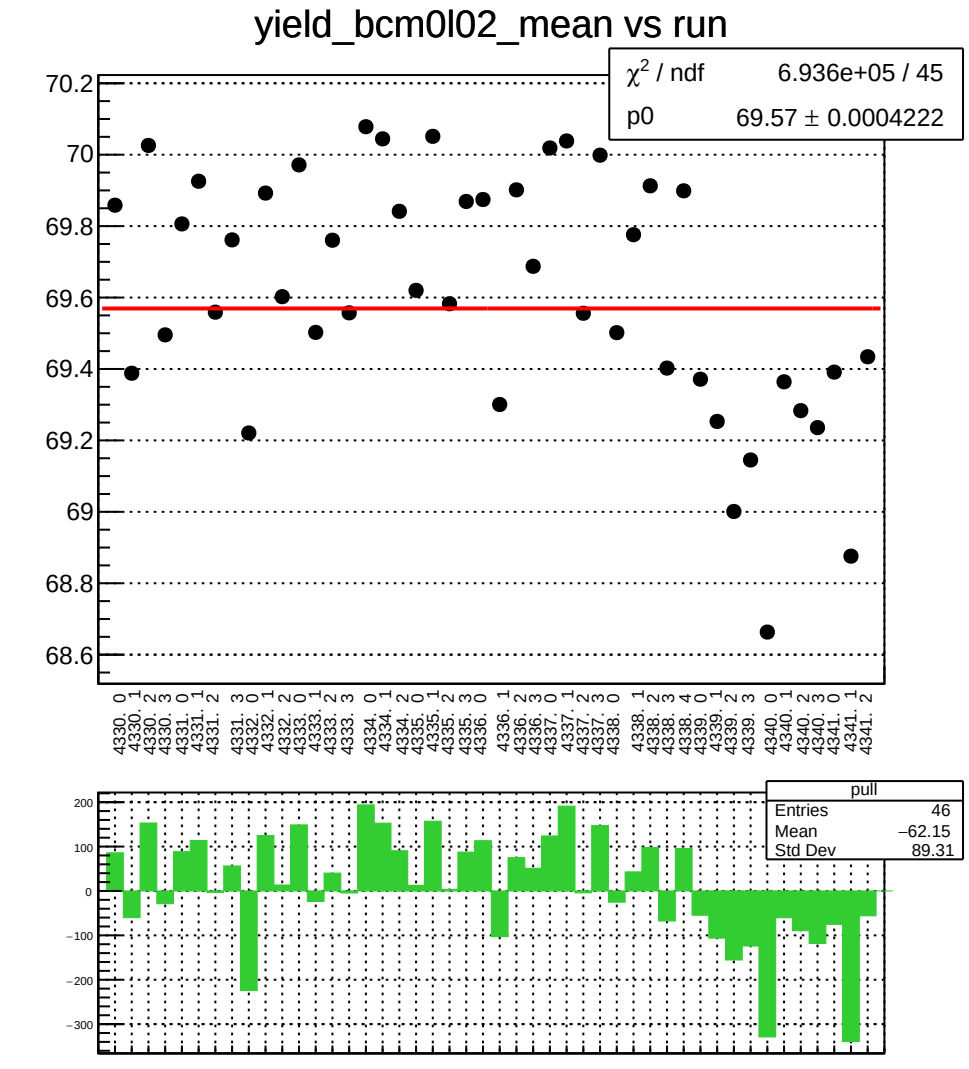

yield_cav4cQ_rms vs run
χ2 / ndf 5.304e+04 / 45
p0 0.2476 ± 0.0002607
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

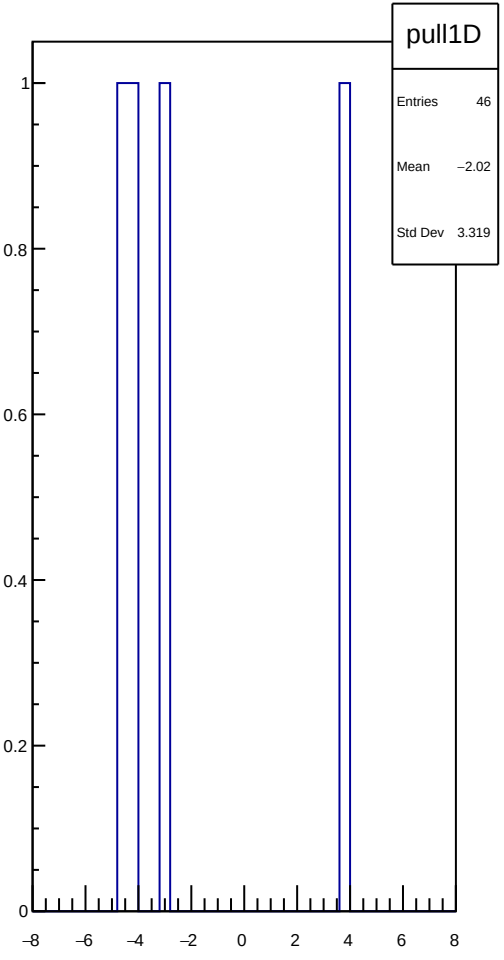

yield_cav4dQ_mean vs run
χ² / ndf 1.044e+05 / 45
p0 379 ± 9.673e−06
379.046
379.044
379.042
379.04
379.038
379.036
379.034
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

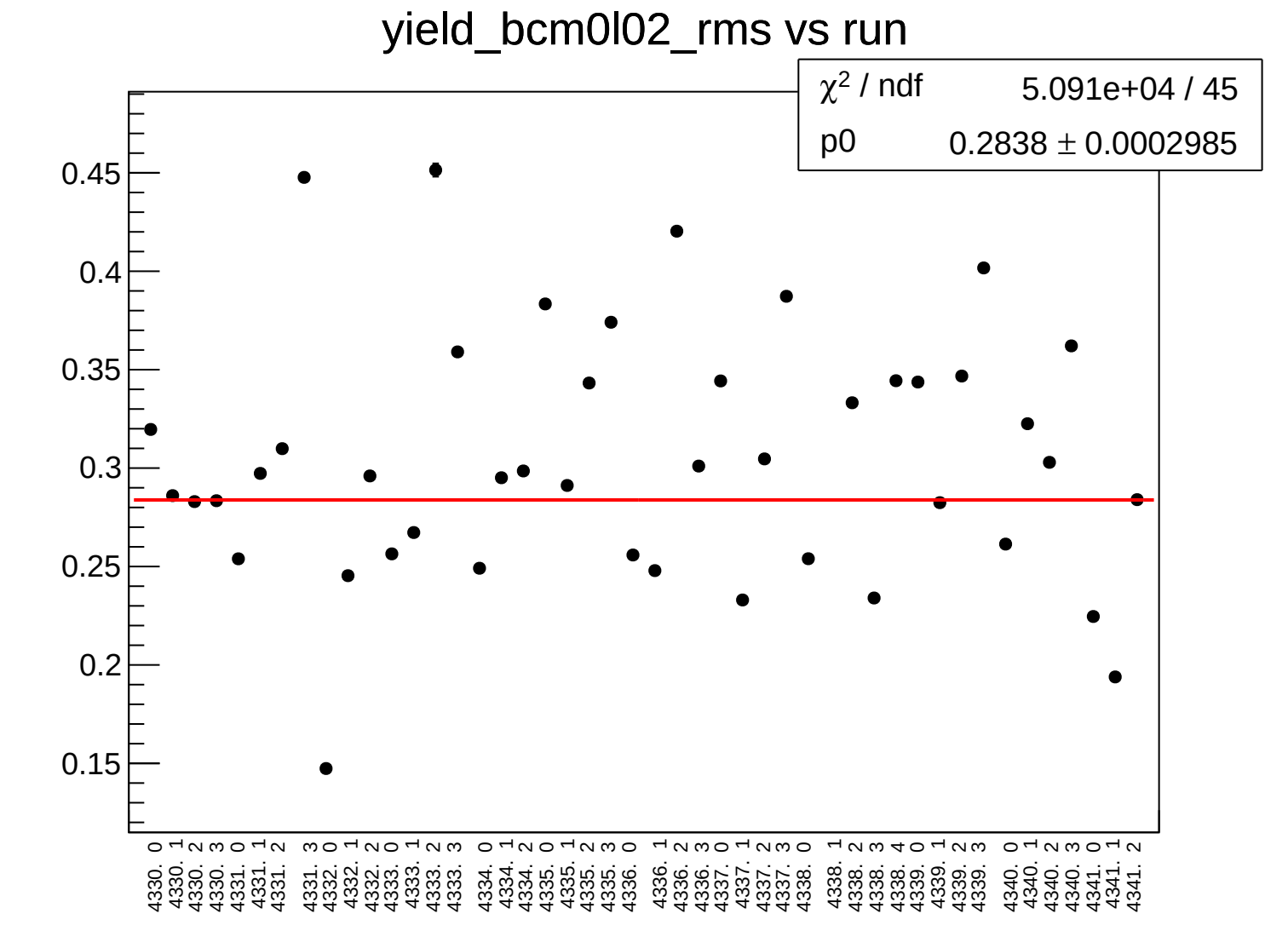

pull
Entries 46
Mean 156.4
Std Dev 251.4
80
60
40
20
0
−20
−40
−60
−80
−100

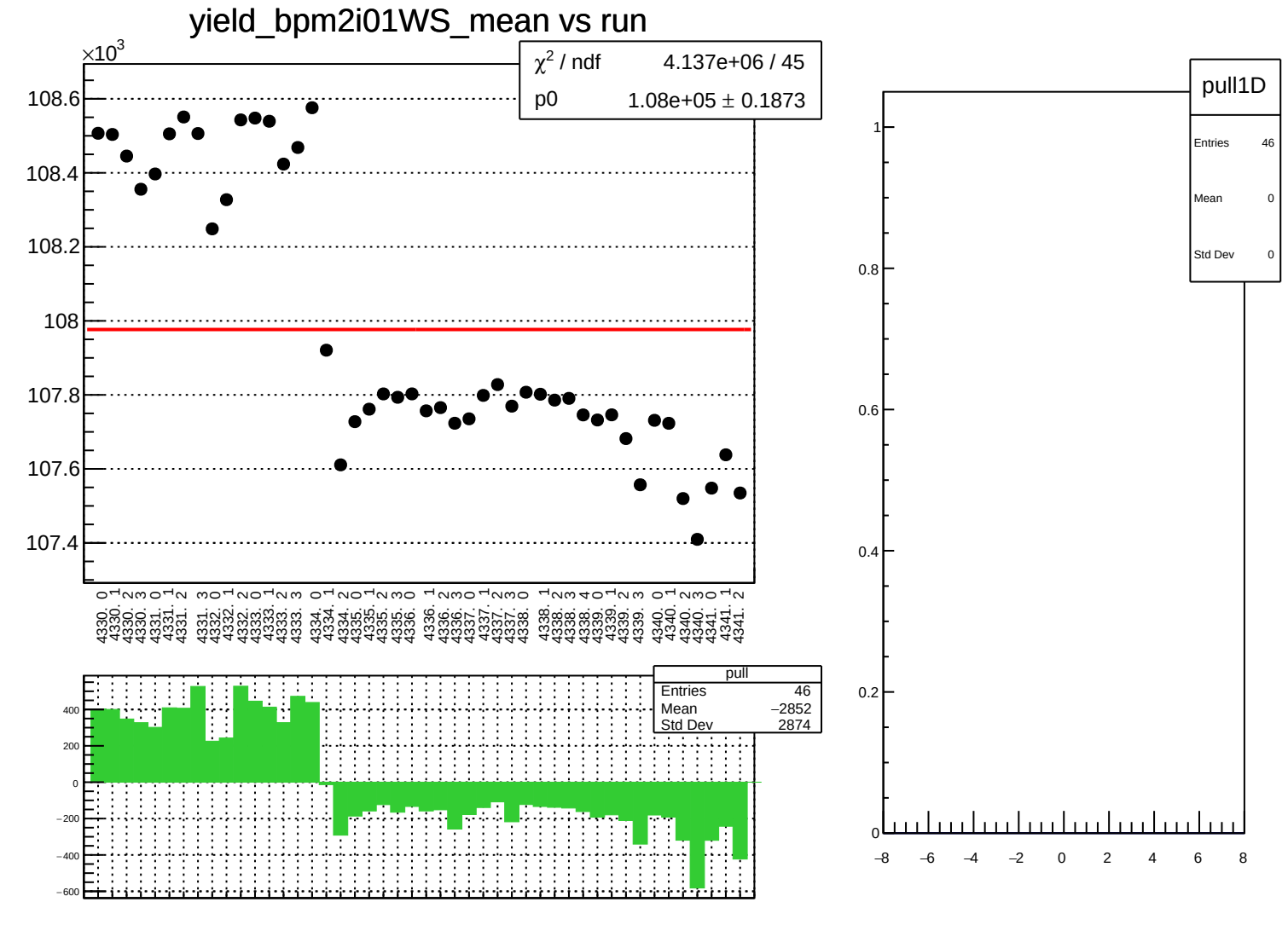

pull1D
Entries 46
Mean −0.1605
Std Dev 3.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

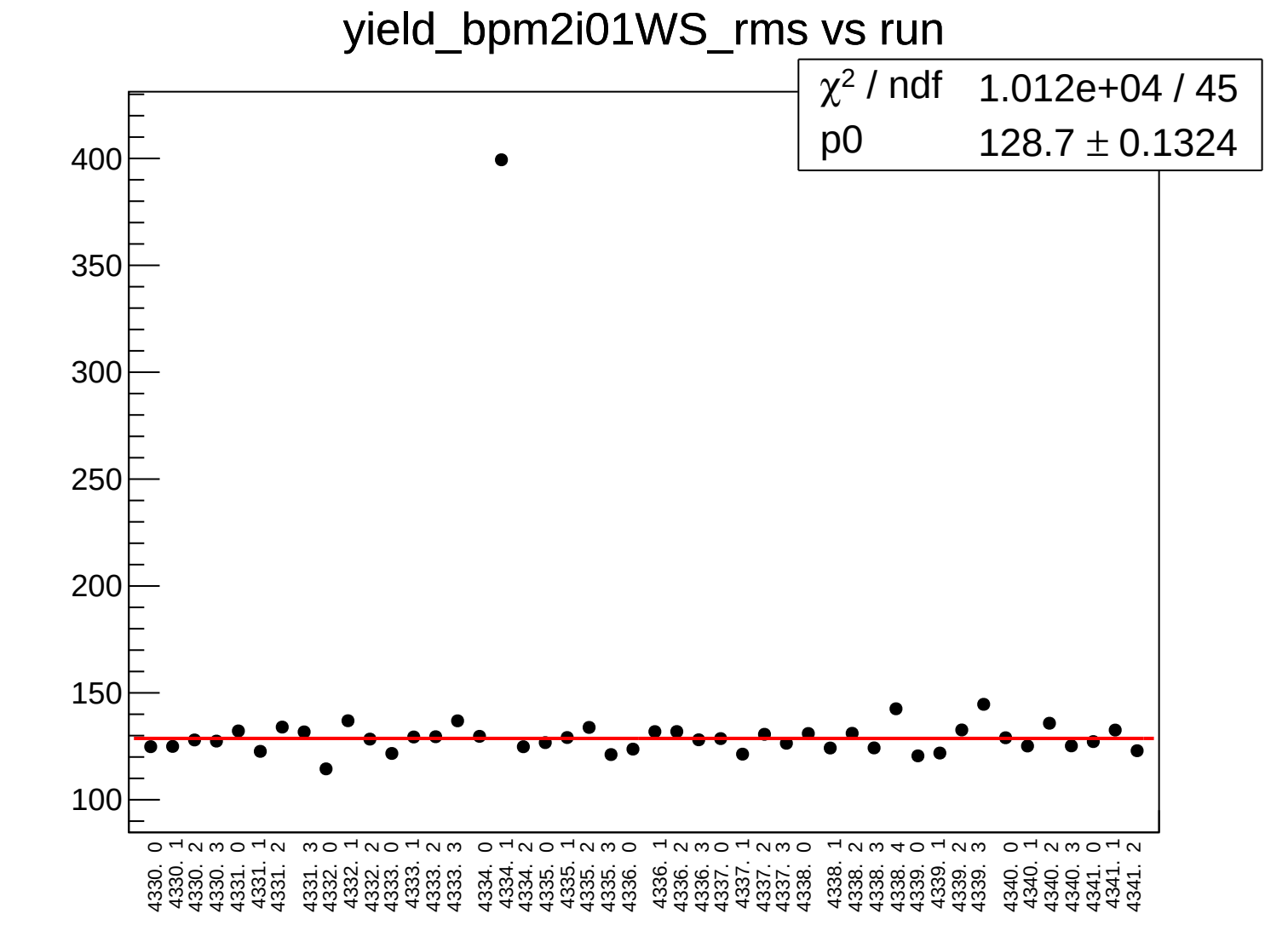

yield_cav4dQ_rms vs run
χ² / ndf 587.5 / 45
p0 0.006681 ± 6.84e–06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

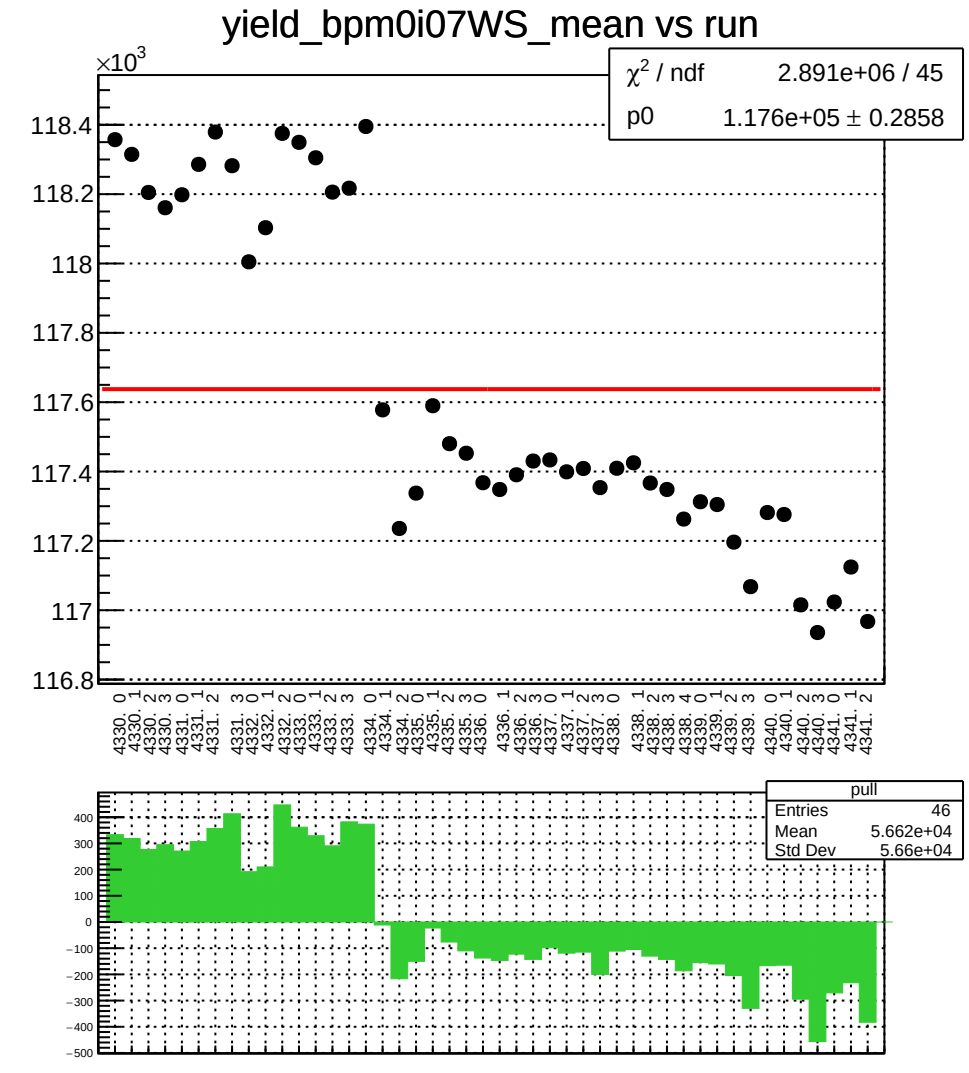

yield_bcm0l02_mean vs run
χ² / ndf 6.936e+05 / 45
p0 69.57 ± 0.0004222
70.2
70
69.8
69.6
69.4
69.2
69
68.8
68.6
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −62.15
Std Dev 89.31
200
100
0
−100
−200
−300

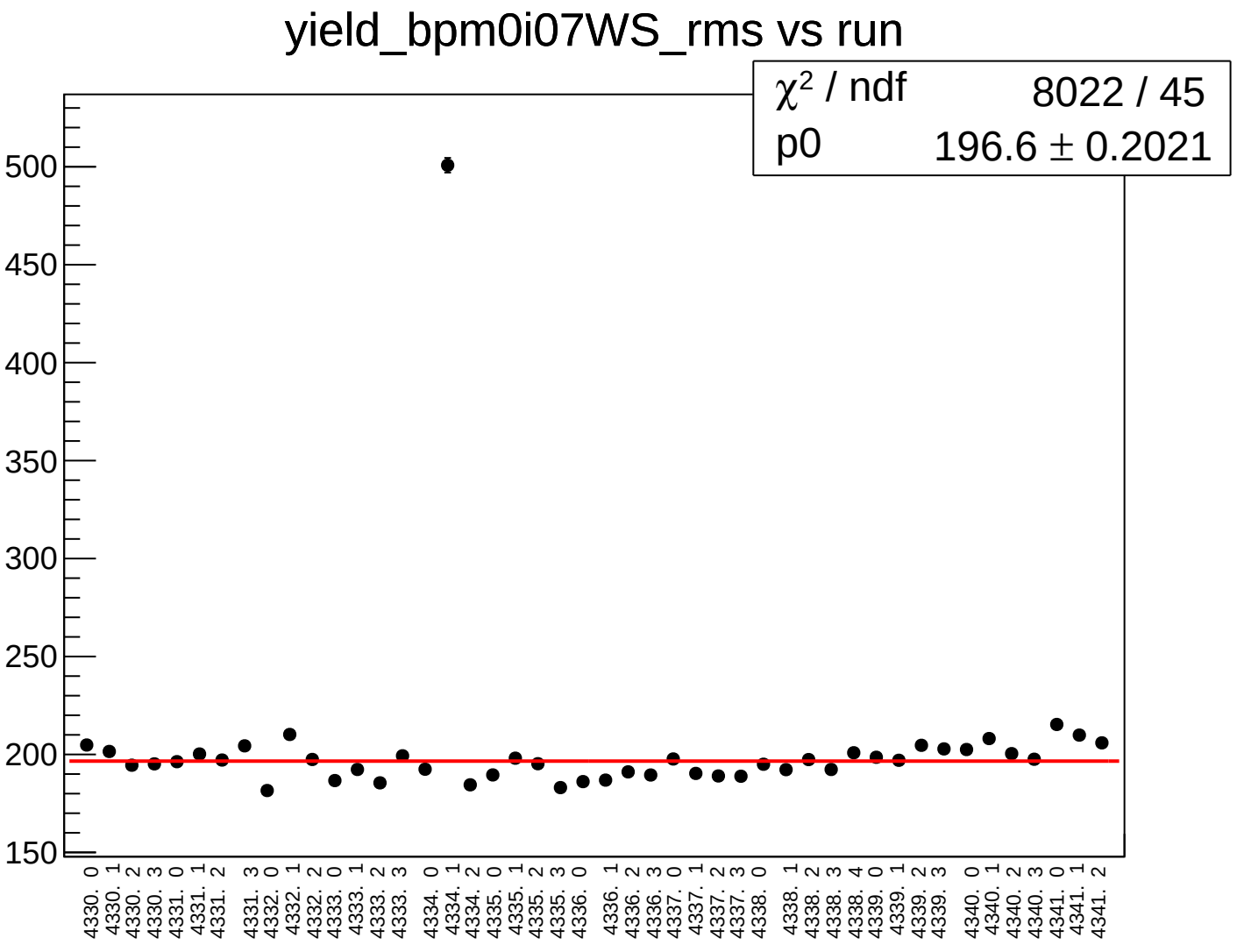

pull1D
Entries 46
Mean −2.02
Std Dev 3.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

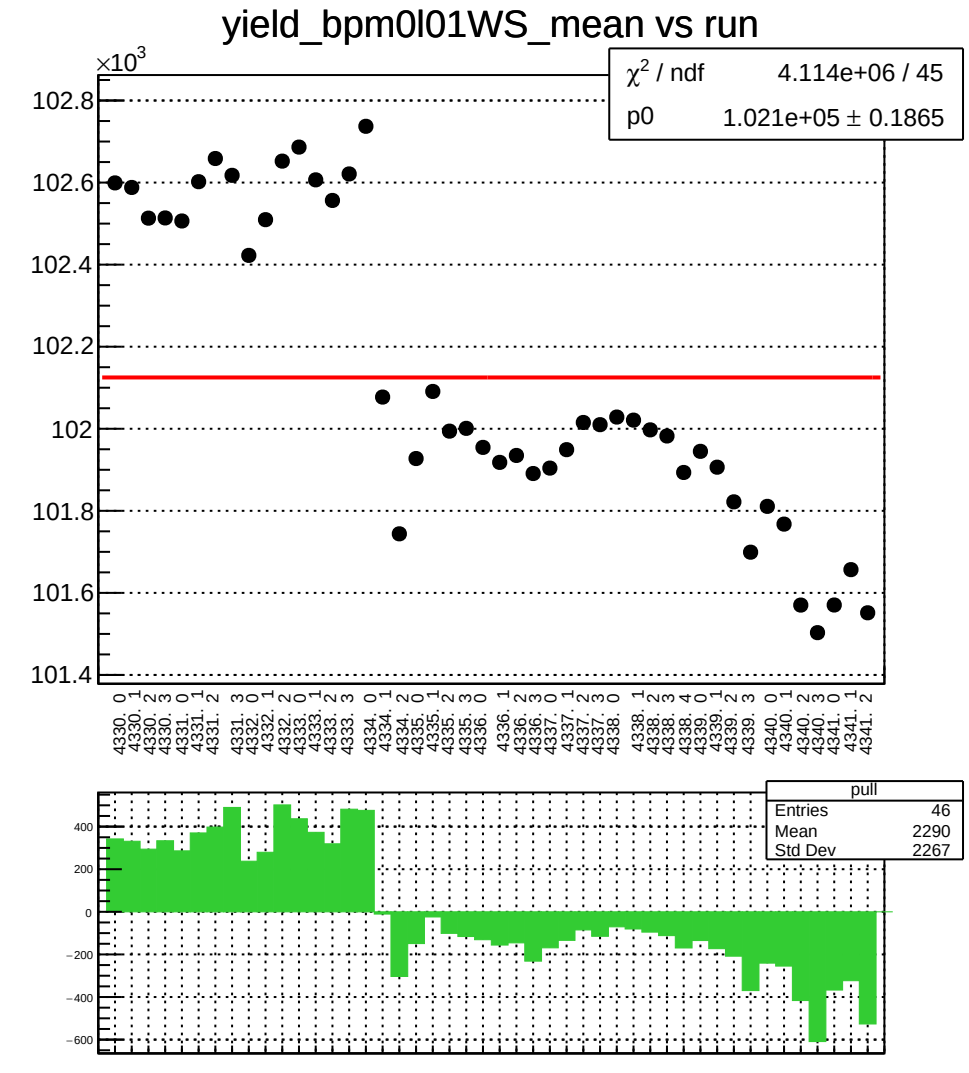

yield_bcm0l02_rms vs run
χ² / ndf 5.091e+04 / 45
p0 0.2838 ± 0.0002985
0.45
0.4
0.35
0.3
0.25
0.2
0.15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

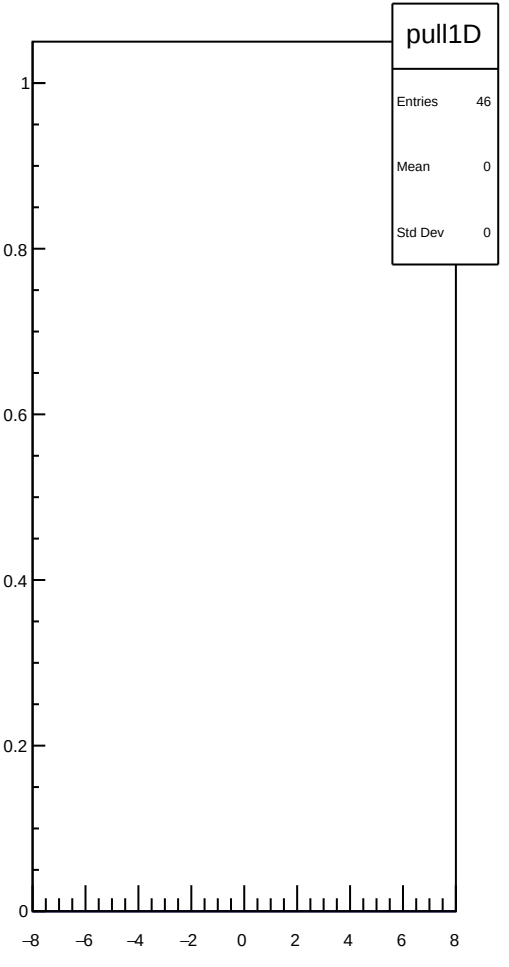

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 4.137e+06 / 45
p0 1.08e+05 ± 0.1873
108.6
108.4
108.2
108
107.8
107.6
107.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −2852
Std Dev 2874
400
200
0
−200
−400
−600
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

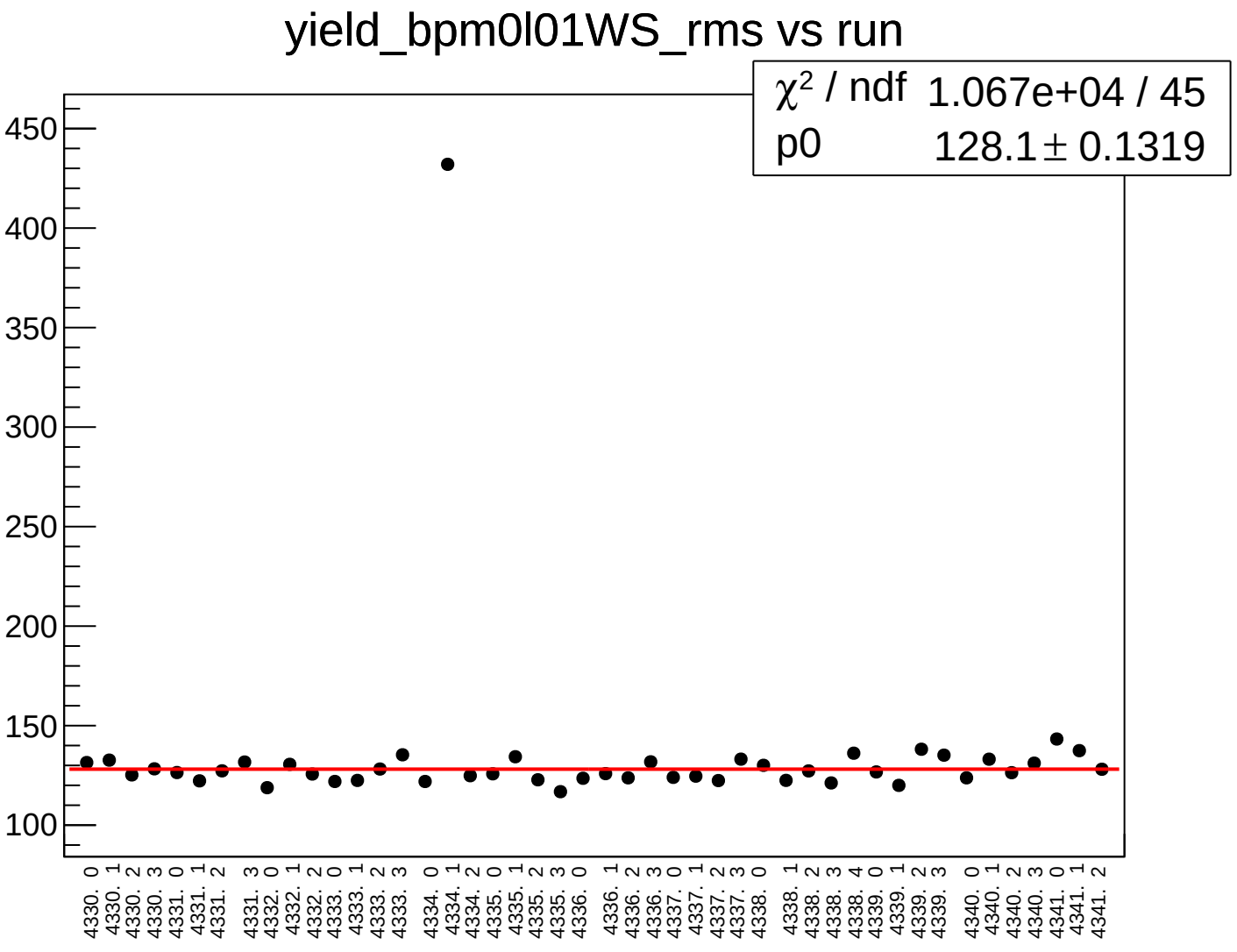

yield_bpm2i01WS_rms vs run
χ² / ndf 1.012e+04 / 45
p0 128.7 ± 0.1324
400
350
300
250
200
150
100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

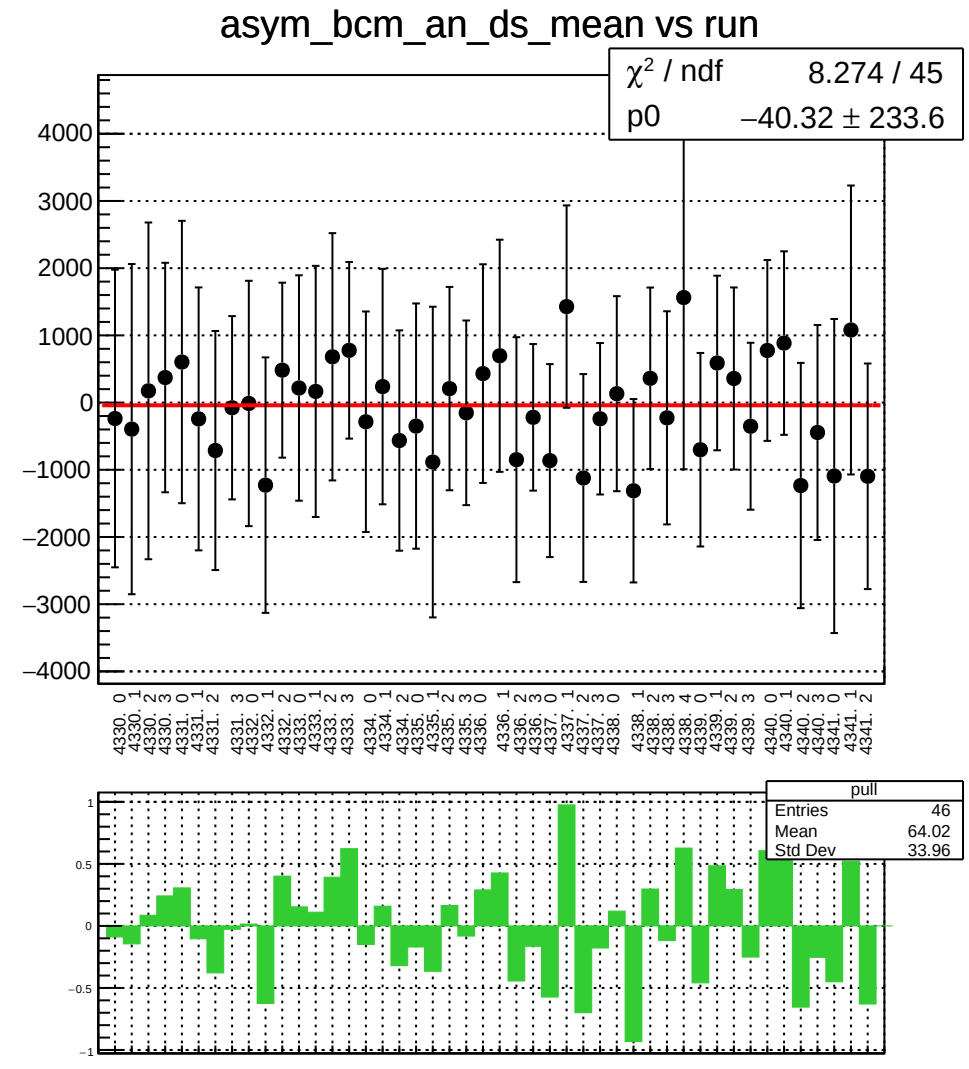

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.891e+06 / 45
p0 1.176e+05 ± 0.2858
118.4
118.2
118
117.8
117.6
117.4
117.2
117
116.8
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 5.662e+04
Std Dev 5.66e+04
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

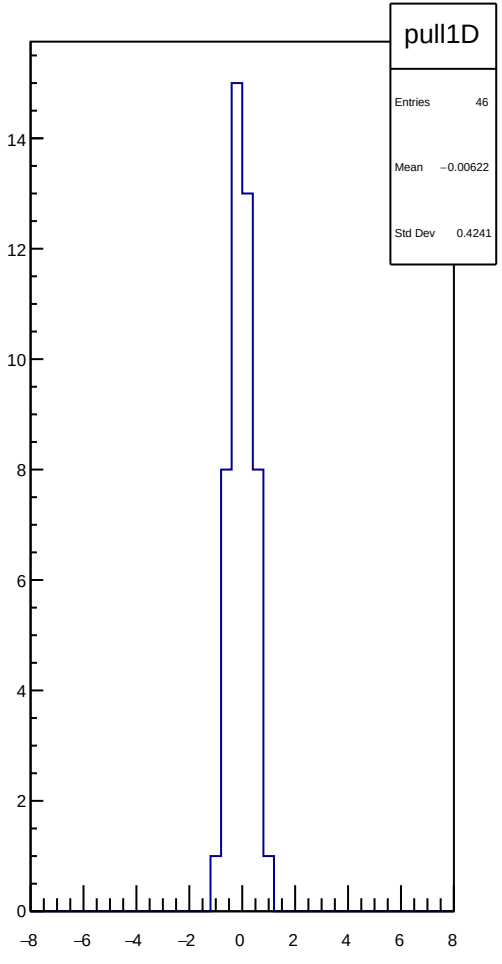

yield_bpm0i07WS_rms vs run
χ² / ndf 8022 / 45
p0 196.6 ± 0.2021
500
450
400
350
300
250
200
150
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

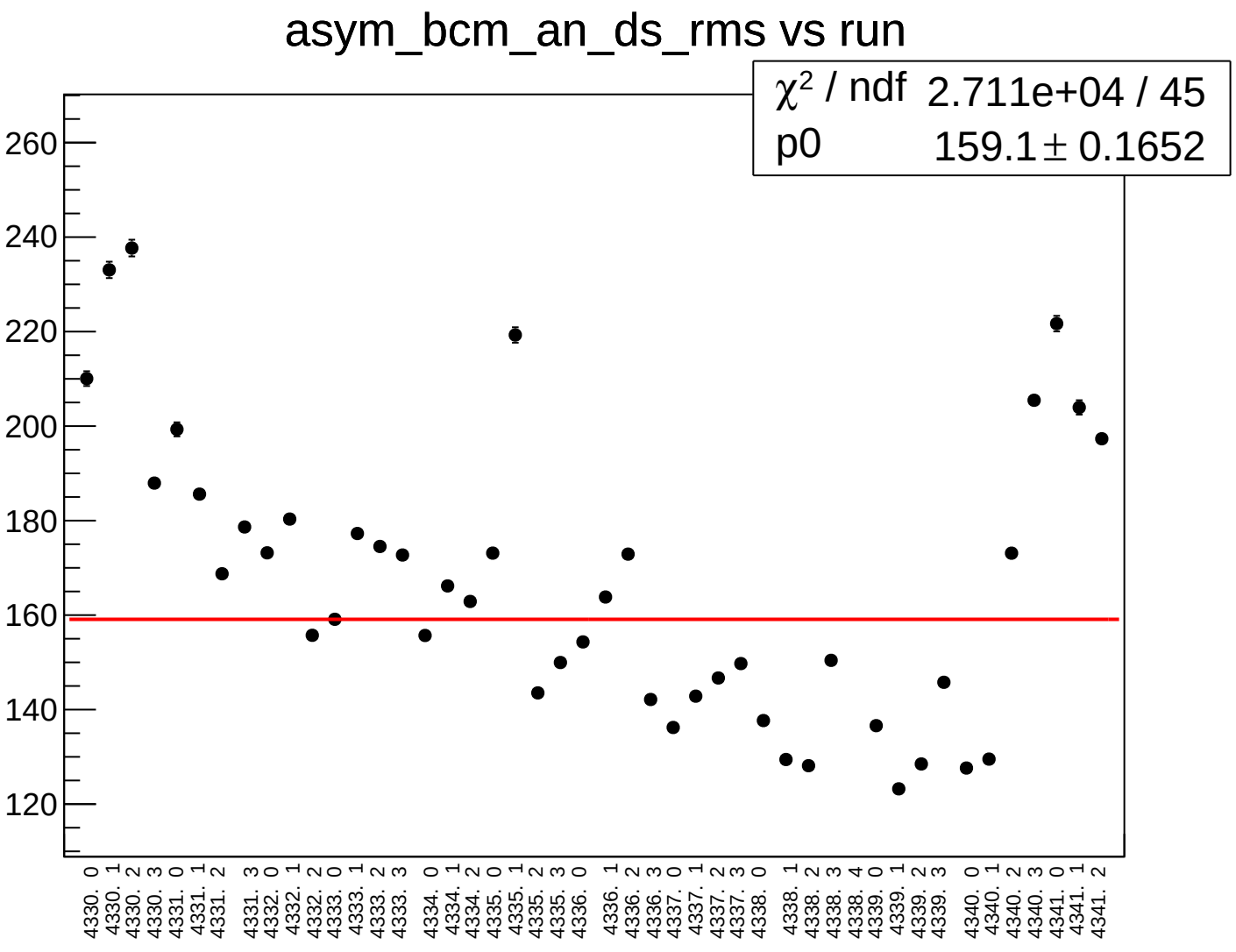

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.114e+06 / 45
p0 1.021e+05 ± 0.1865
102.8
102.6
102.4
102.2
102
101.8
101.6
101.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 2290
Std Dev 2267
400
200
0
−200
−400
−600

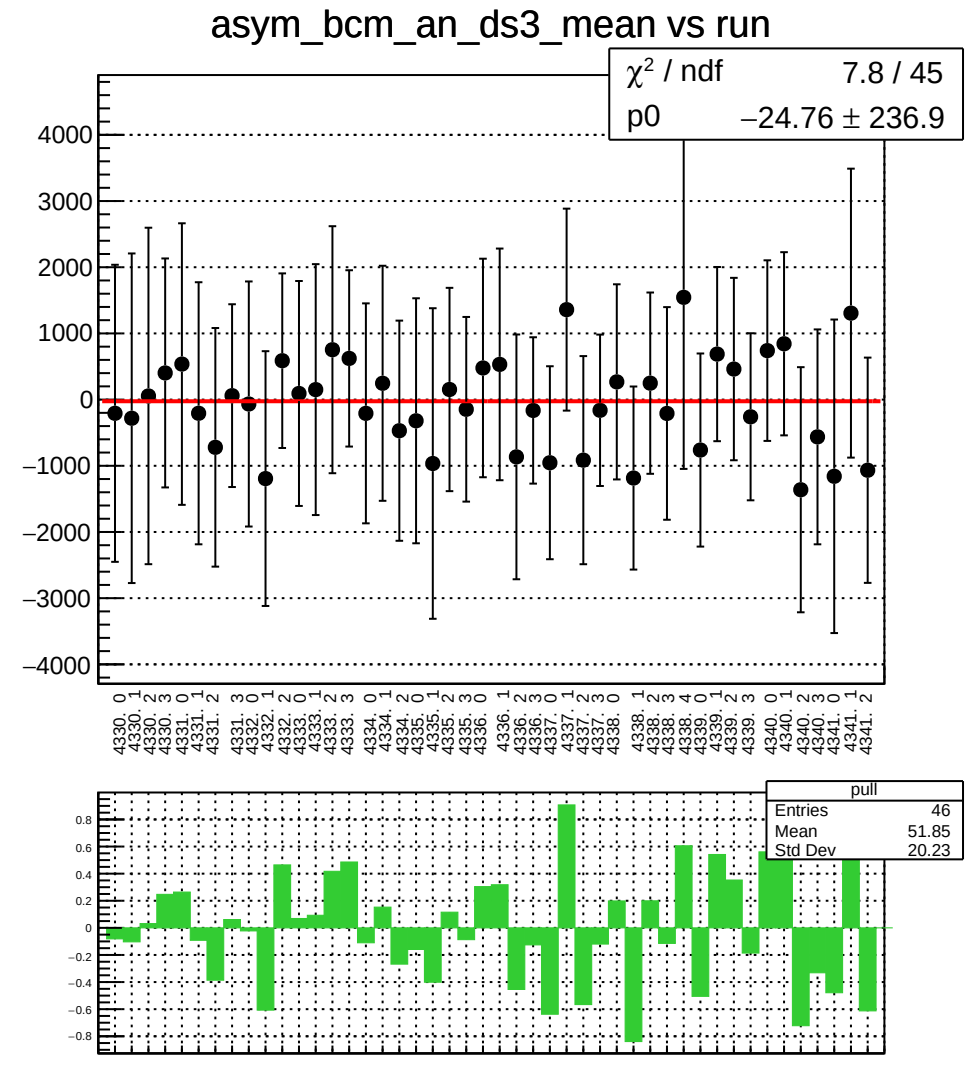

pull1D
Entries 46
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

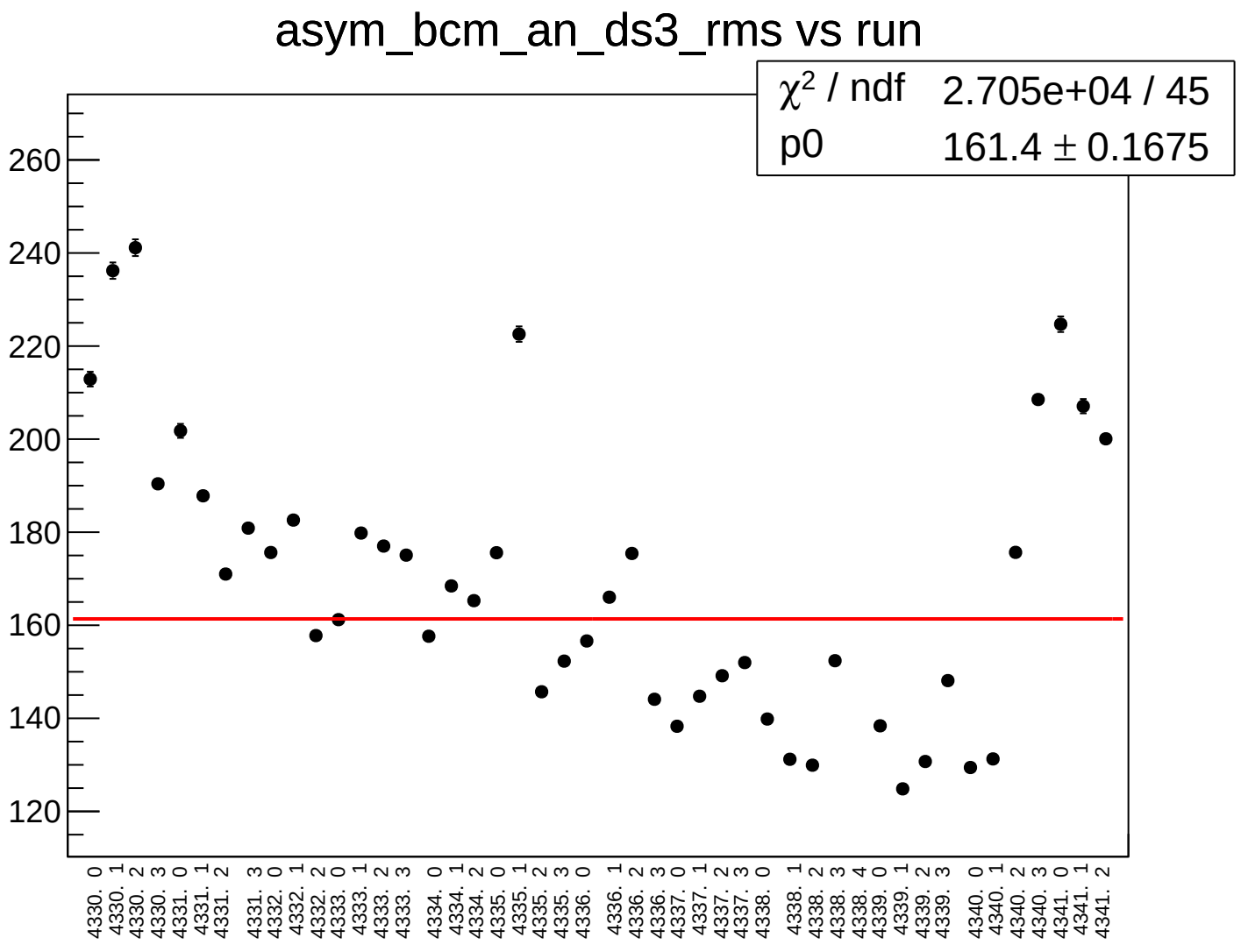

yield_bpm0l01WS_rms vs run
χ² / ndf 1.067e+04 / 45
p0 128.1 ± 0.1319
450
400
350
300
250
200
150
100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

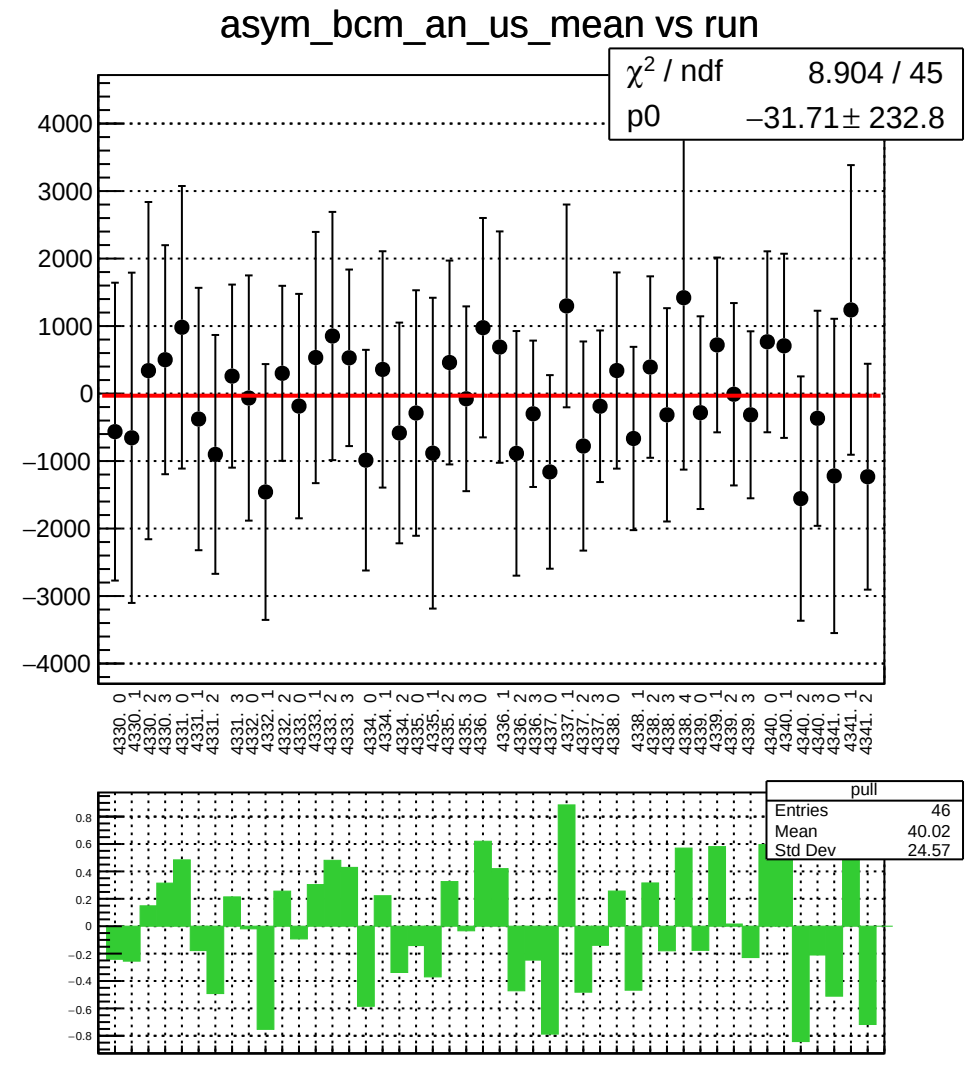

asym_bcm_an_ds_mean vs run
χ² / ndf 8.274 / 45
p0 −40.32 ± 233.6
pull
Entries 46
Mean 64.02
Std Dev 33.96

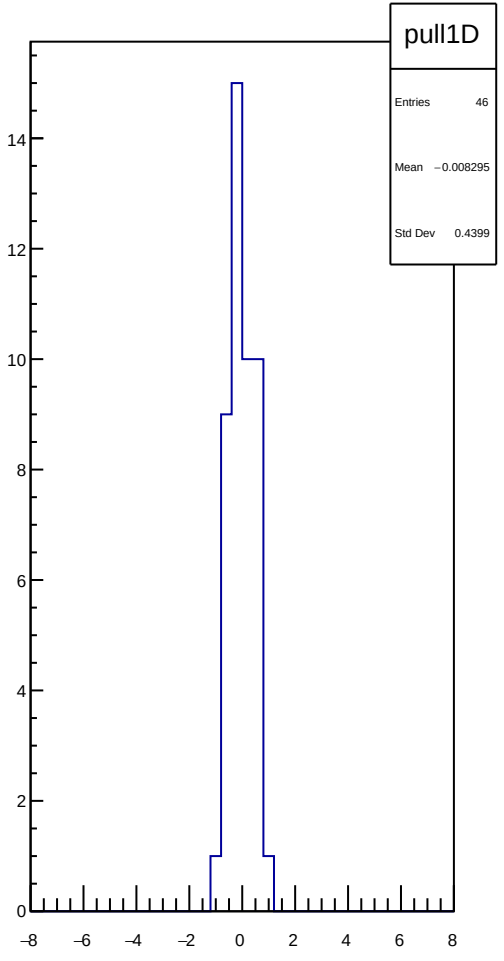

pull1D
Entries 46
Mean −0.00622
Std Dev 0.4241

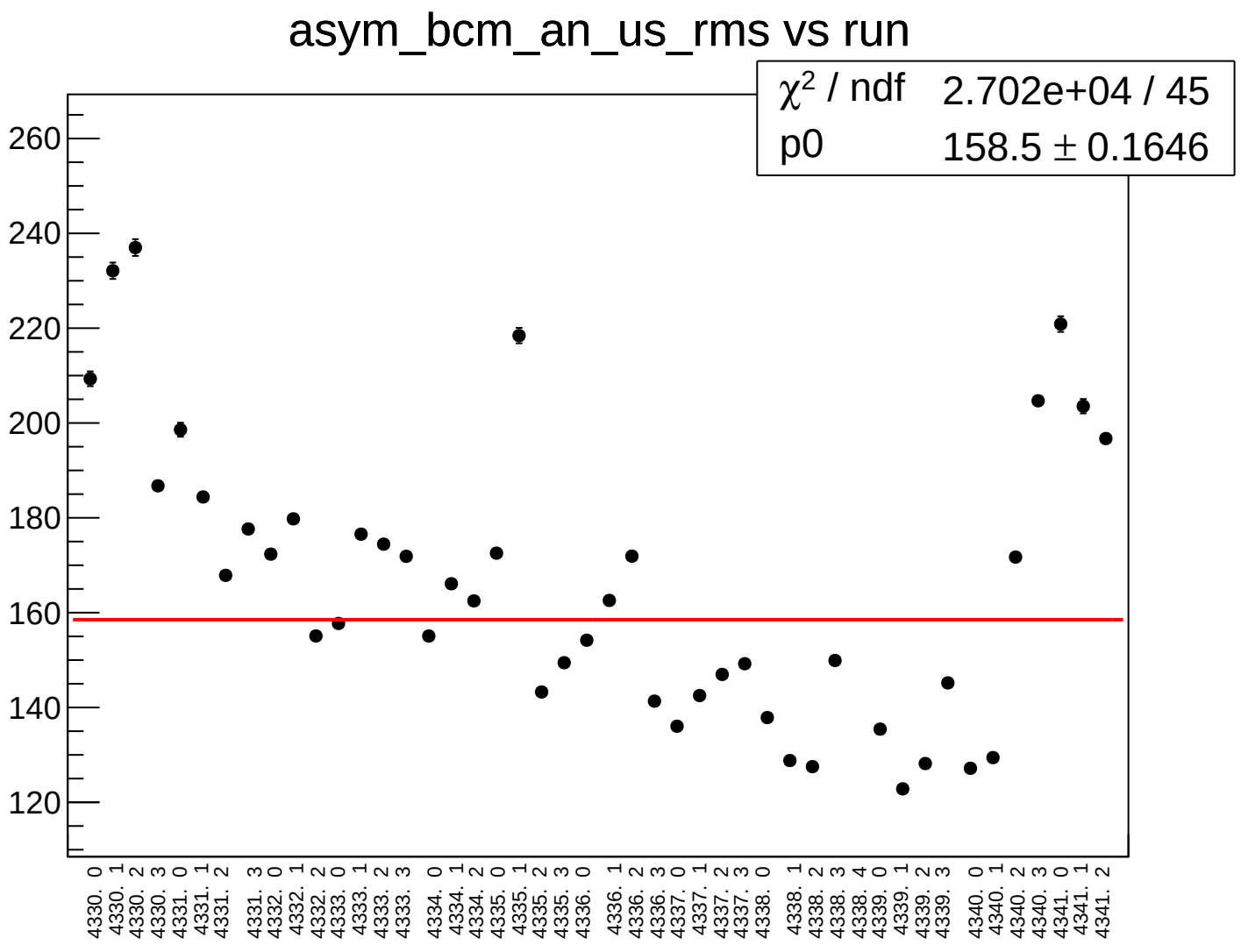

asym_bcm_an_ds_rms vs run
χ² / ndf 2.711e+04 / 45
p0 159.1 ± 0.1652
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

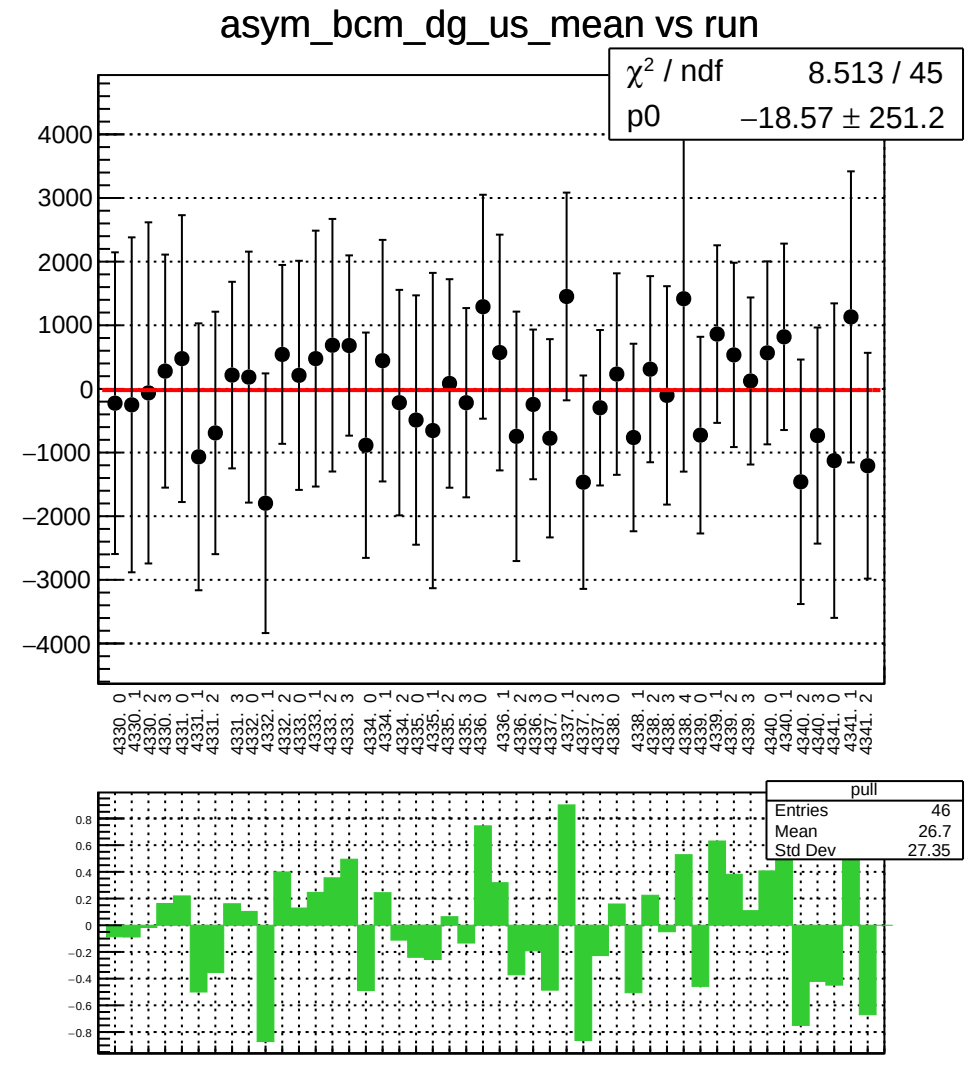

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.8 / 45
p0 −24.76 ± 236.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 51.85
Std Dev 20.23
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.008304
Std Dev 0.4117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

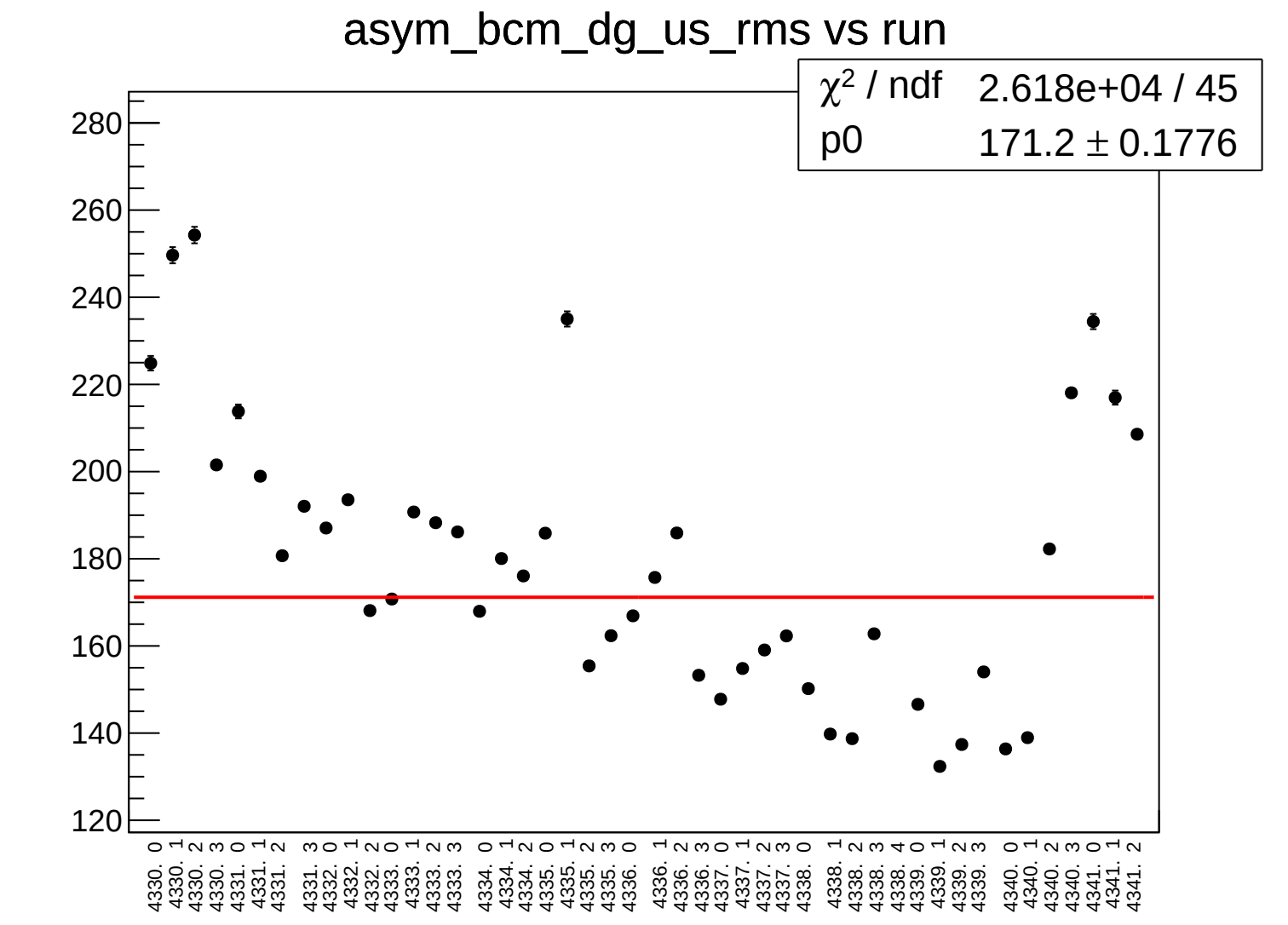

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.705e+04 / 45
p0 161.4 ± 0.1675
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

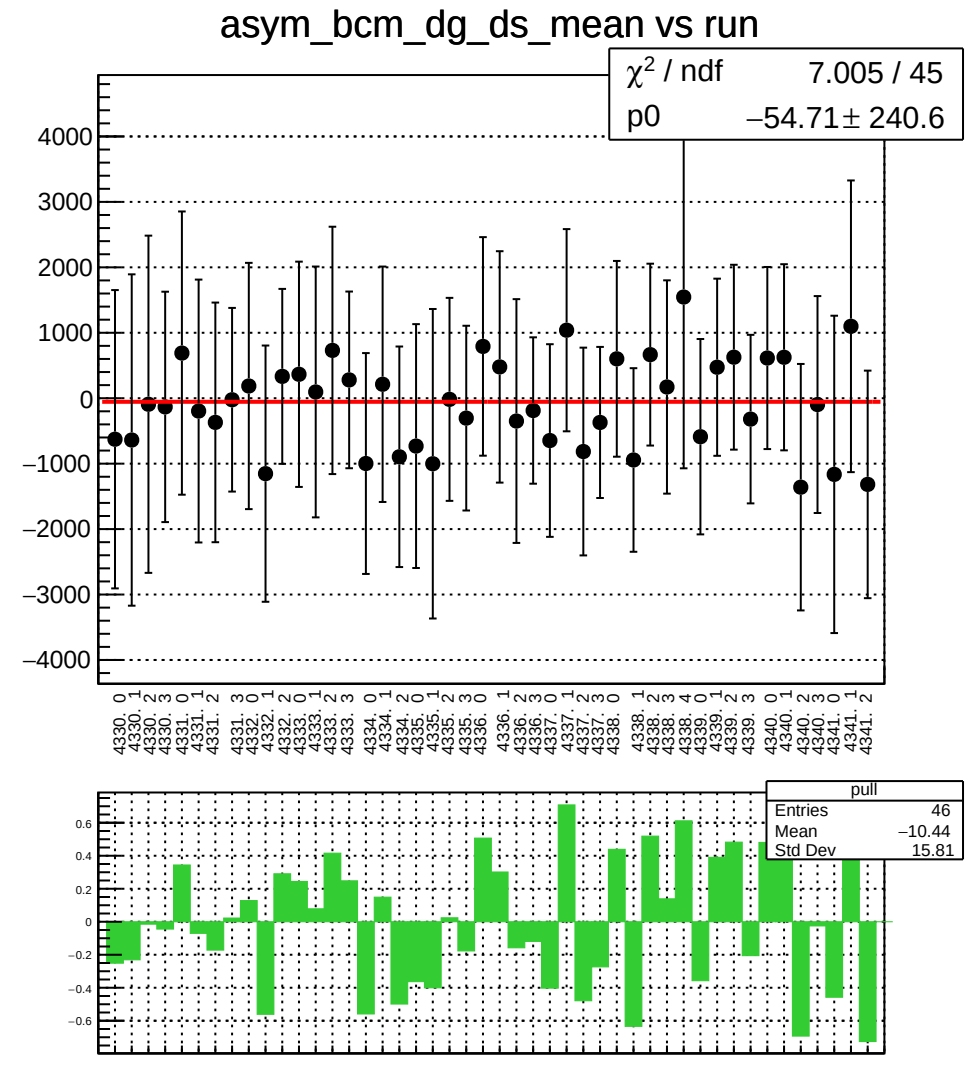

asym_bcm_an_us_mean vs run
χ² / ndf 8.904 / 45
p0 −31.71± 232.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 40.02
Std Dev 24.57
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

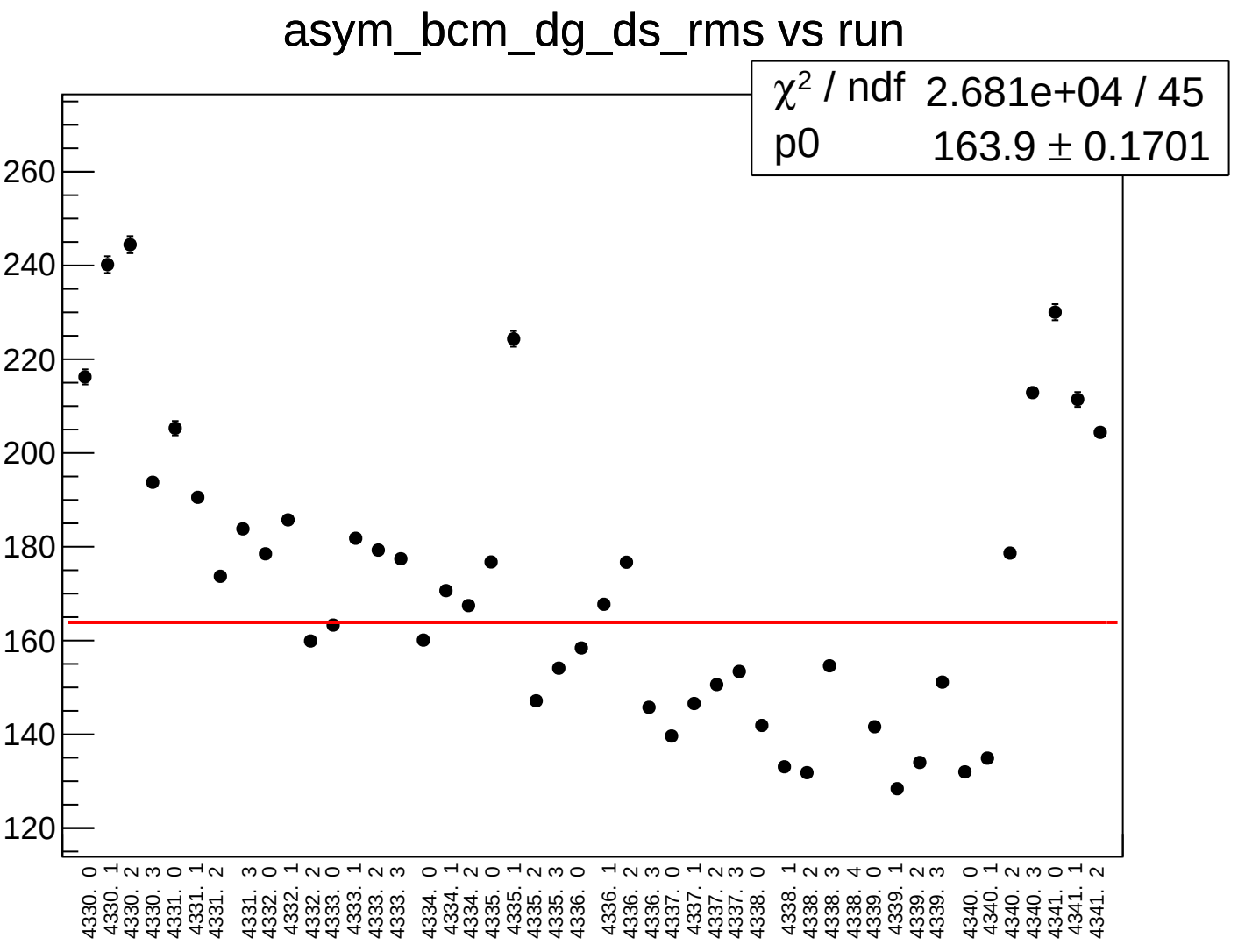

pull1D
Entries 46
Mean −0.008295
Std Dev 0.4399
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

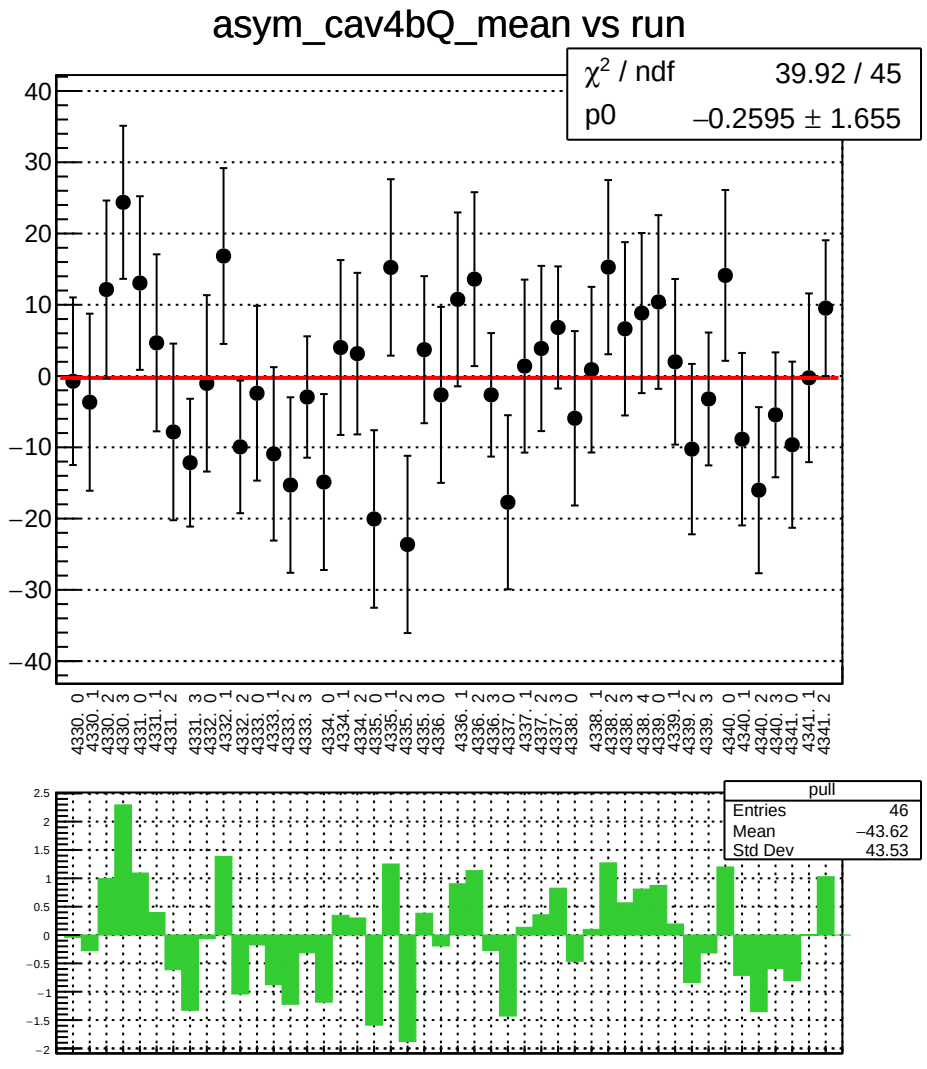

asym_bcm_an_us_rms vs run
χ² / ndf 2.702e+04 / 45
p0 158.5 ± 0.1646
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

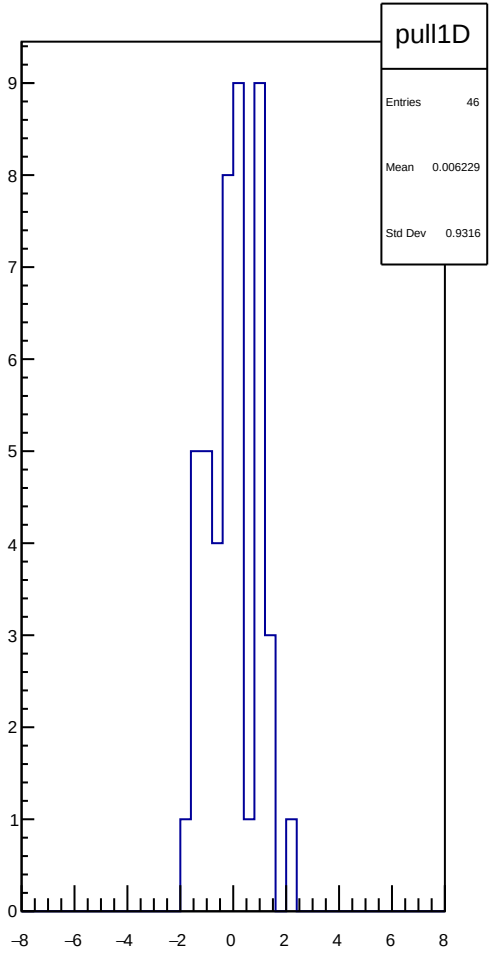

asym_bcm_dg_us_mean vs run
χ² / ndf 8.513 / 45
p0 −18.57 ± 251.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 26.7
Std Dev 27.35
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.01142
Std Dev 0.43
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

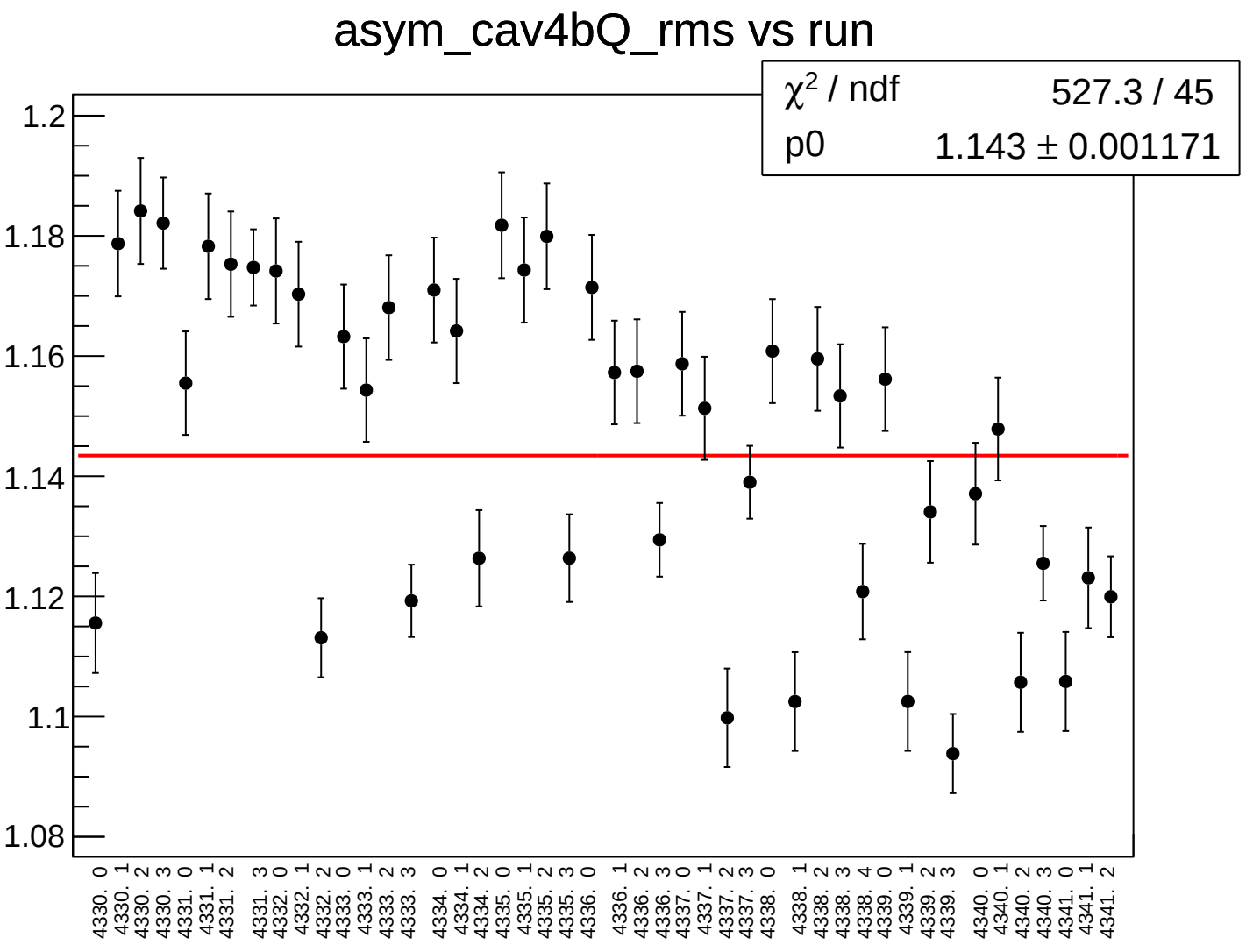

asym_bcm_dg_us_rms vs run
χ² / ndf 2.618e+04 / 45
p0 171.2 ± 0.1776
280
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

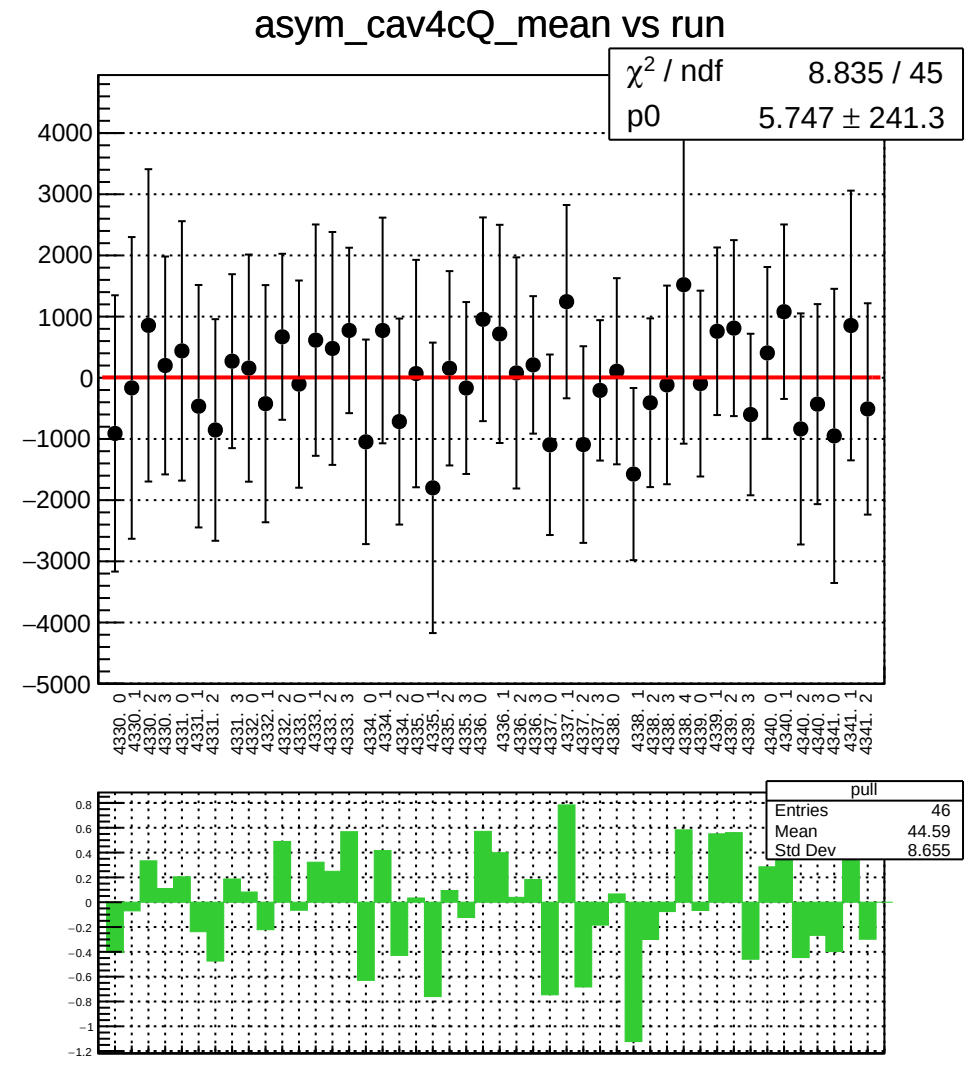

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.005 / 45
p0 −54.71 ± 240.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −10.44
Std Dev 15.81
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.007668
Std Dev 0.3902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

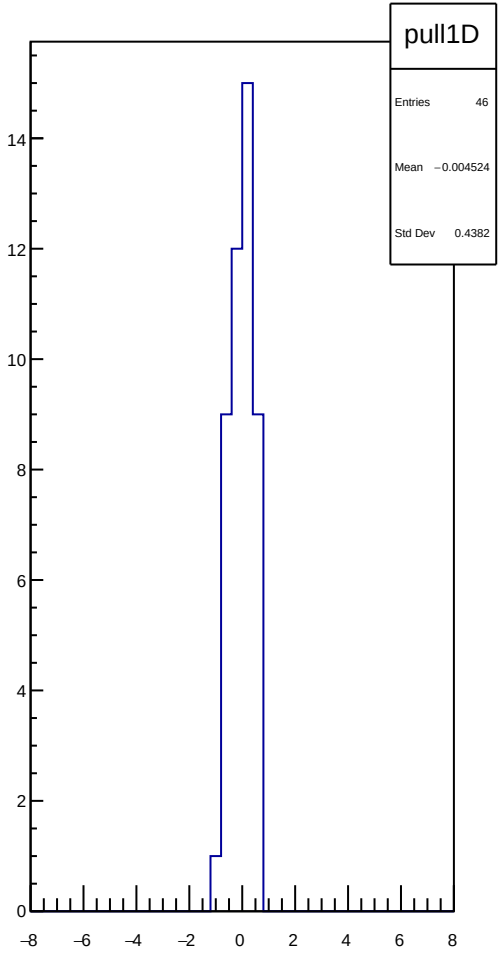

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.681e+04 / 45
p0 163.9 ± 0.1701
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

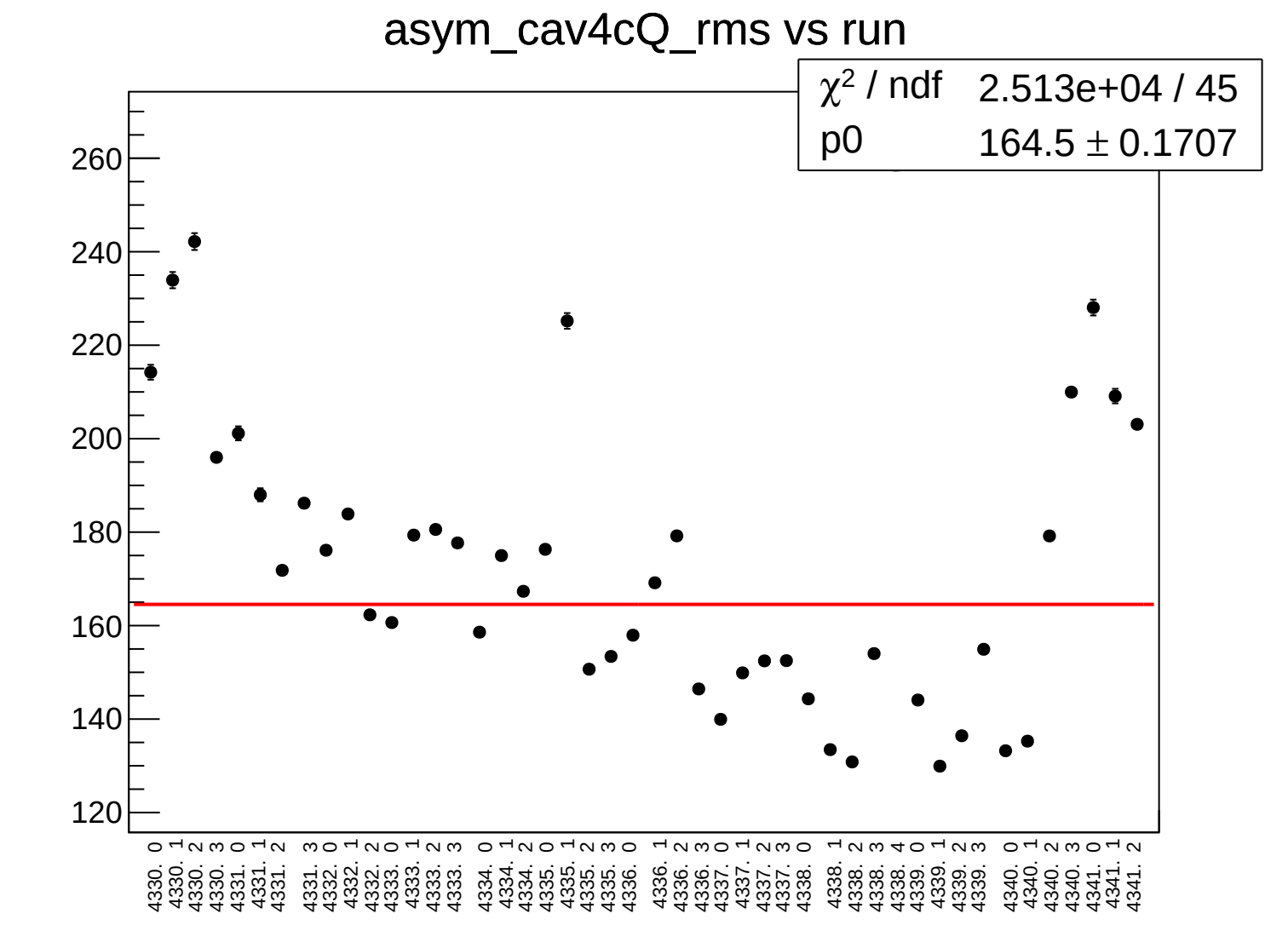

asym_cav4bQ_mean vs run
χ² / ndf 39.92 / 45
p0 −0.2595 ± 1.655
pull
Entries 46
Mean −43.62
Std Dev 43.53

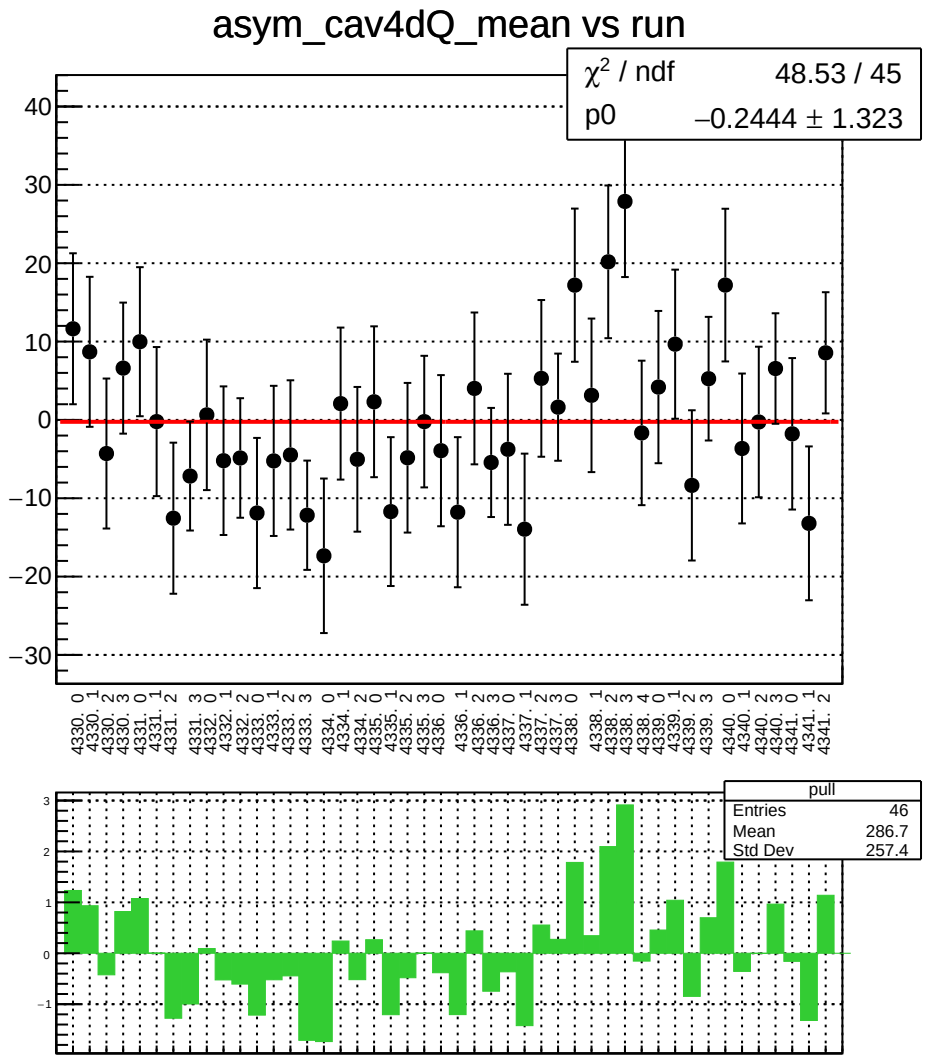

pull1D
Entries 46
Mean 0.006229
Std Dev 0.9316

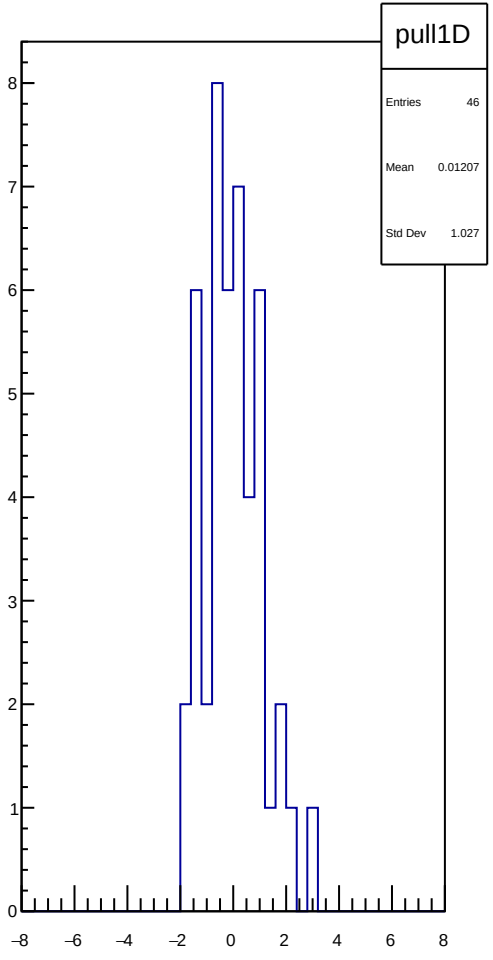

asym_cav4bQ_rms vs run
χ² / ndf 527.3 / 45
p0 1.143 ± 0.001171
1.2
1.18
1.16
1.14
1.12
1.1
1.08
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

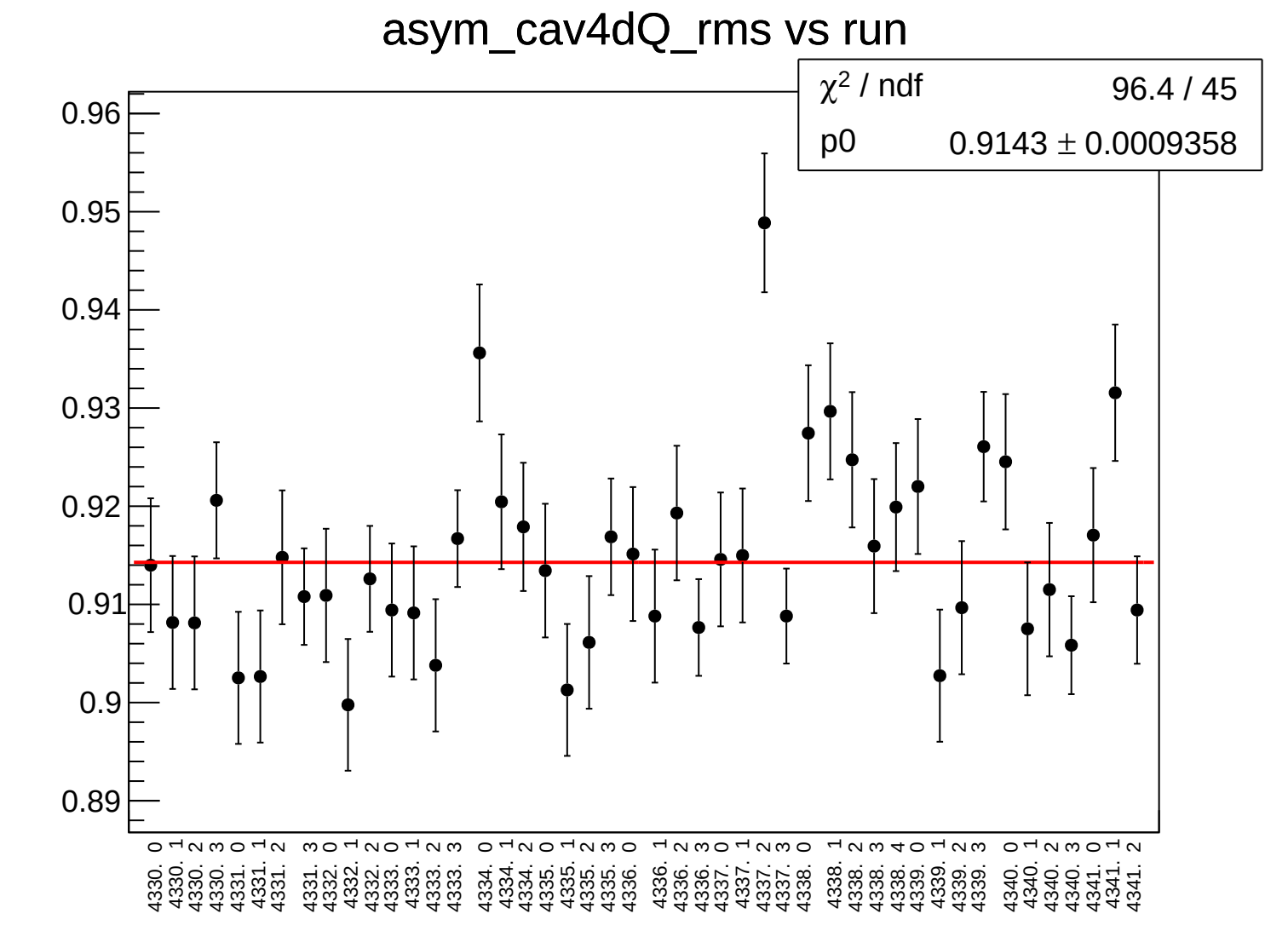

asym_cav4cQ_mean vs run
χ² / ndf 8.835 / 45
p0 5.747 ± 241.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 44.59
Std Dev 8.655
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

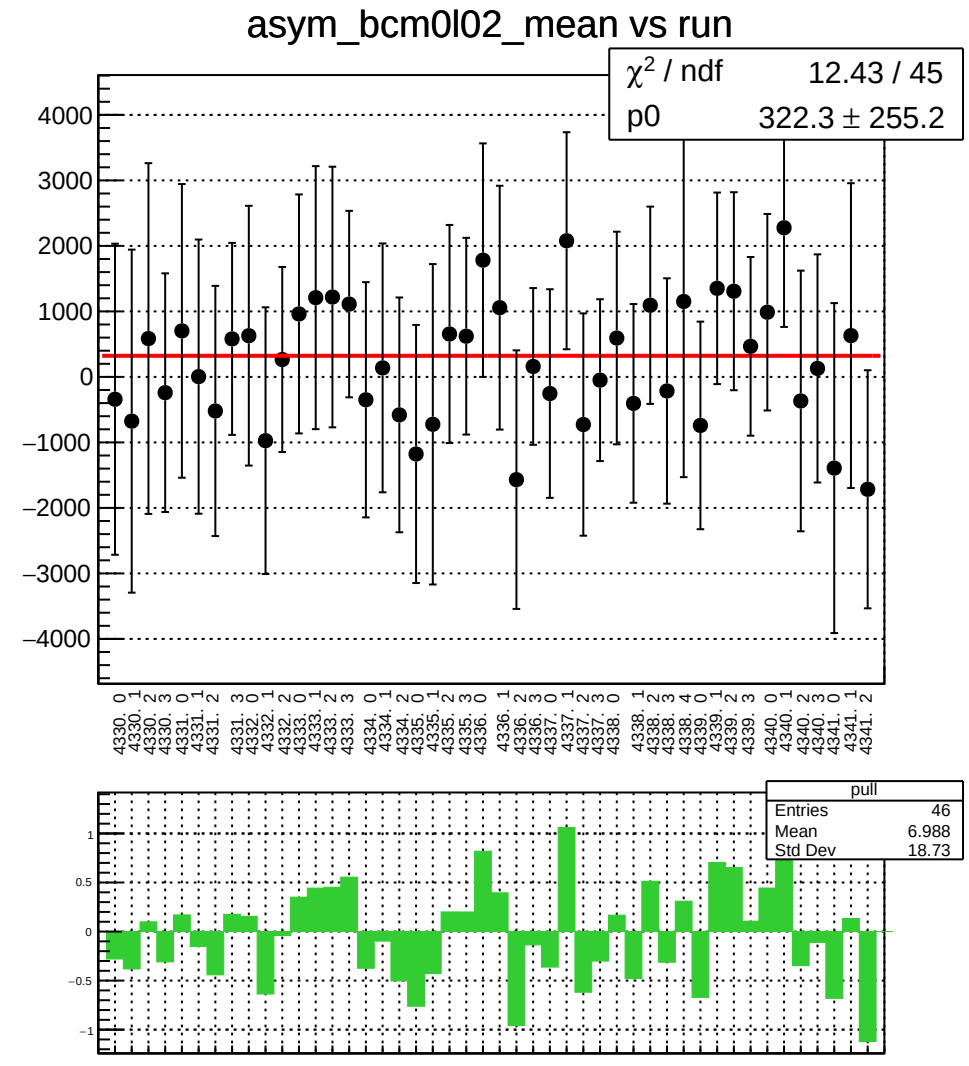

pull1D
Entries 46
Mean −0.004524
Std Dev 0.4382
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

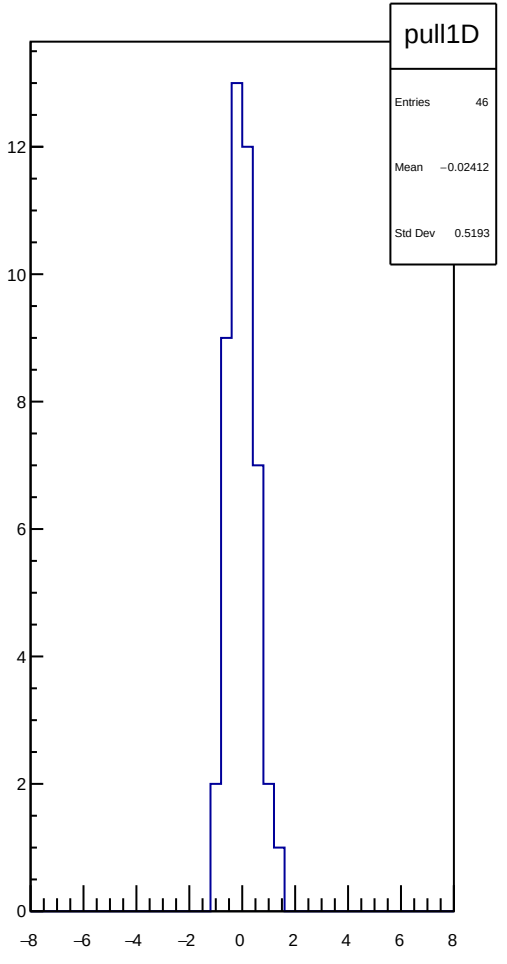

asym_cav4cQ_rms vs run
χ² / ndf 2.513e+04 / 45
p0 164.5 ± 0.1707
260
240
220
200
180
160
140
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

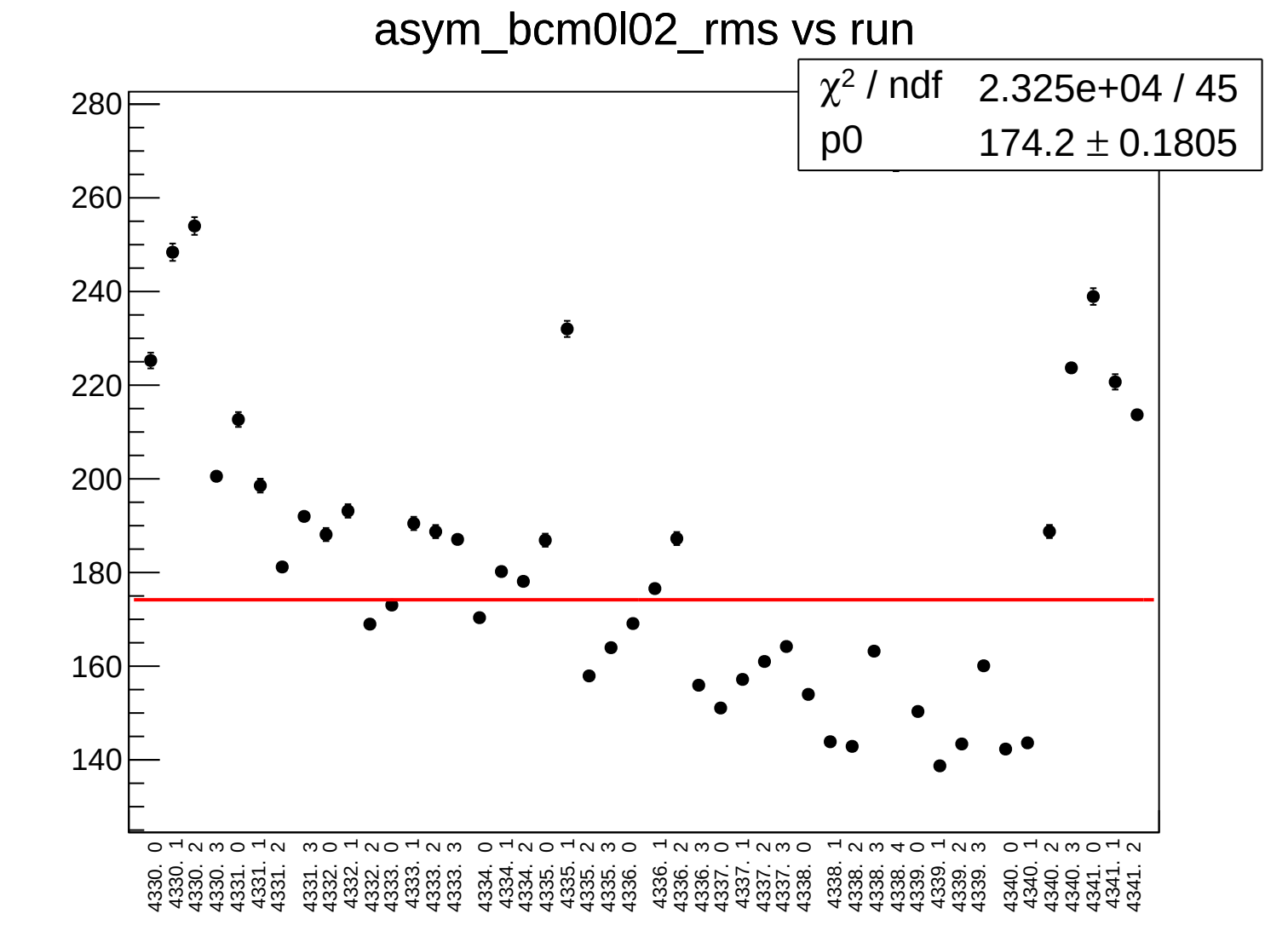

asym_cav4dQ_mean vs run
χ² / ndf 48.53 / 45
p0 −0.2444 ± 1.323
pull
Entries 46
Mean 286.7
Std Dev 257.4

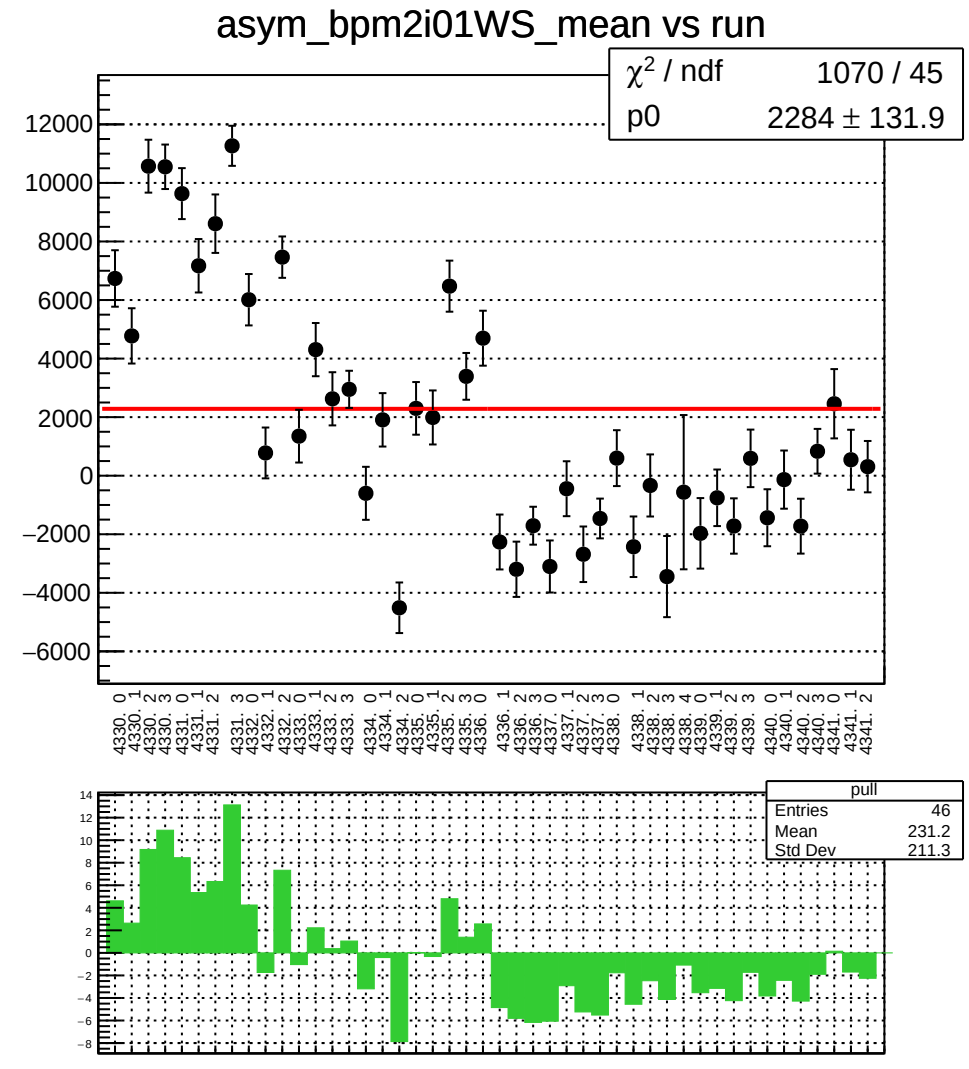

pull1D
Entries 46
Mean 0.01207
Std Dev 1.027

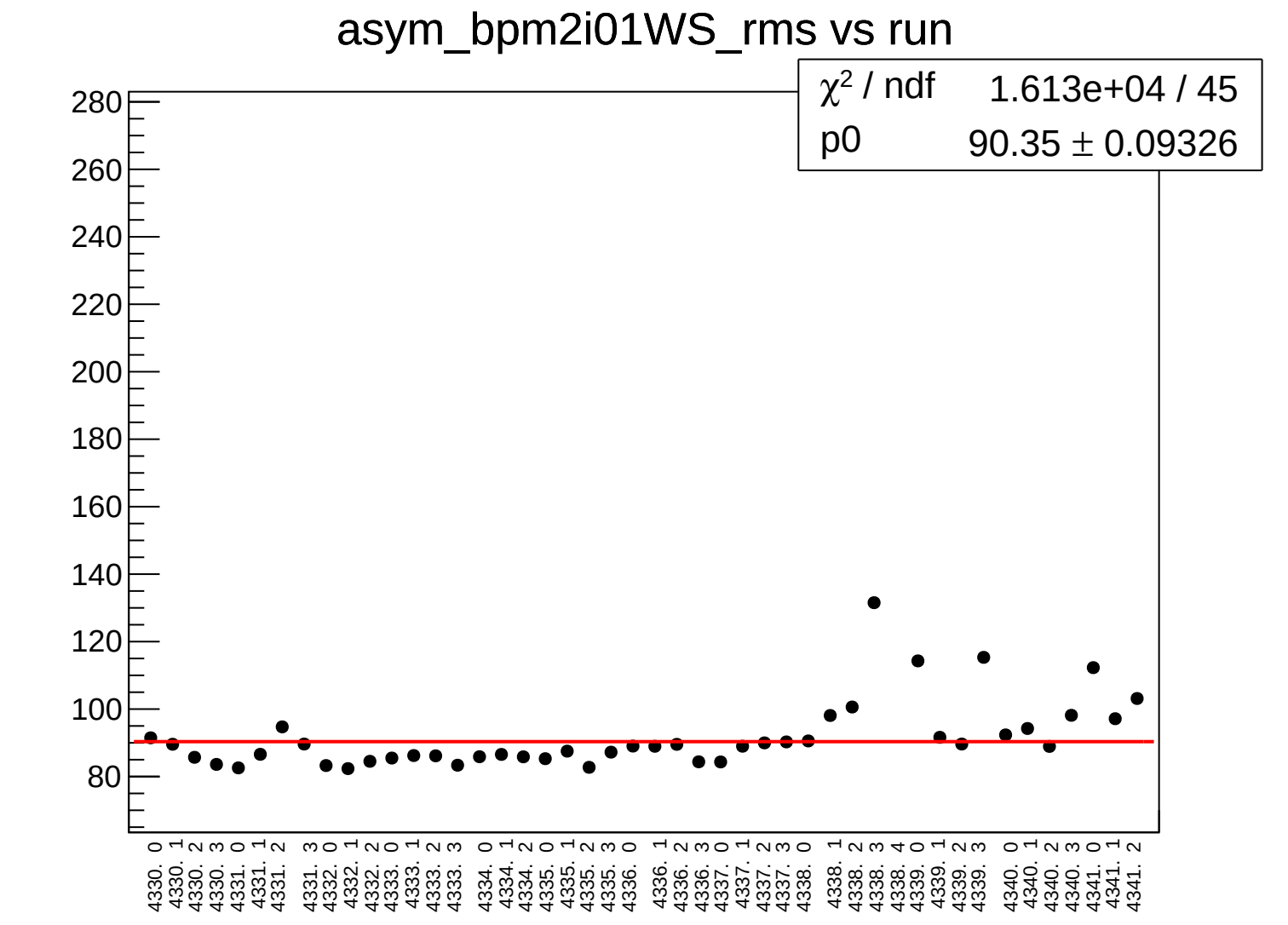

asym_cav4dQ_rms vs run
χ² / ndf 96.4 / 45
p0 0.9143 ± 0.0009358
0.96
0.95
0.94
0.93
0.92
0.91
0.9
0.89
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

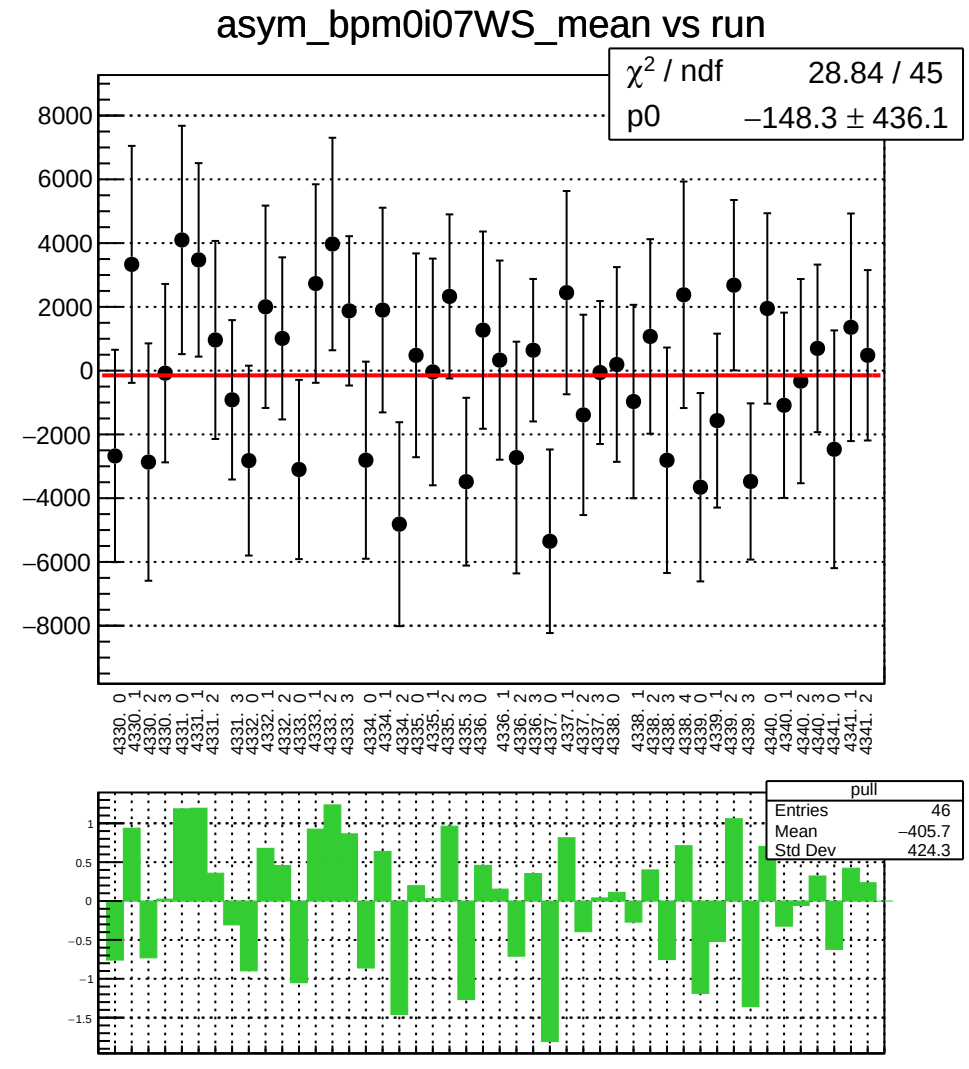

asym_bcm0l02_mean vs run
χ² / ndf 12.43 / 45
p0 322.3 ± 255.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 6.988
Std Dev 18.73
1
0.5
0
−0.5
−1

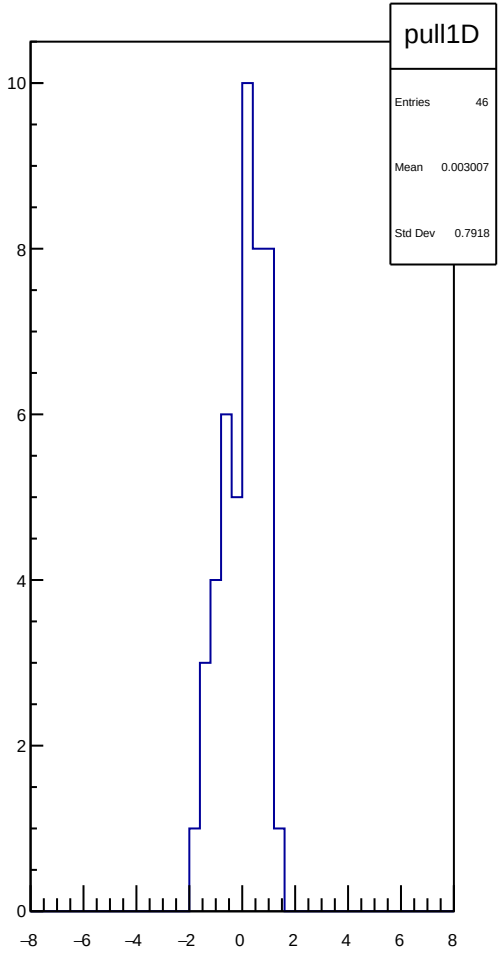

pull1D
Entries 46
Mean −0.02412
Std Dev 0.5193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

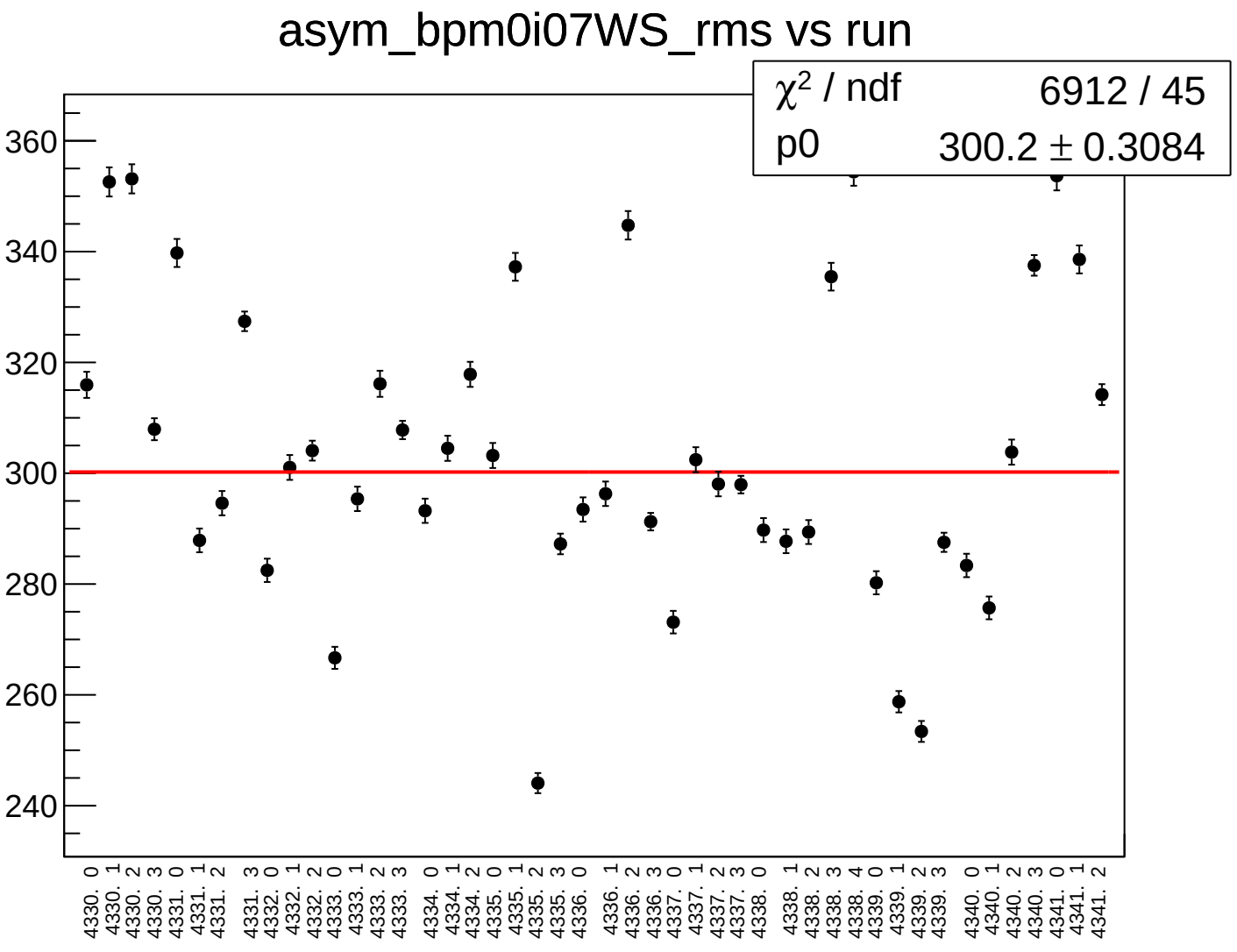

asym_bcm0l02_rms vs run
χ² / ndf 2.325e+04 / 45
p0 174.2 ± 0.1805
280
260
240
220
200
180
160
140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

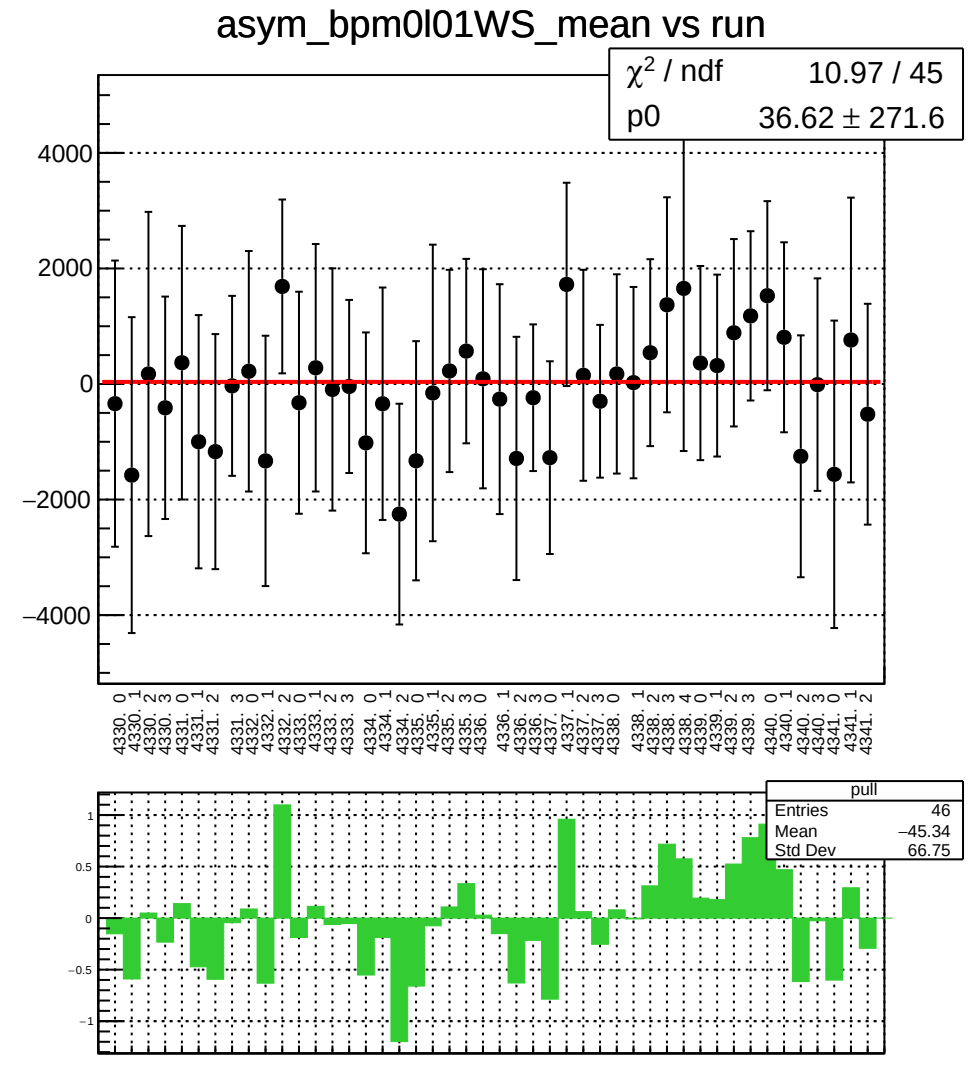

asym_bpm2i01WS_mean vs run
χ² / ndf 1070 / 45
p0 2284 ± 131.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 231.2
Std Dev 211.3
14
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 46
Mean −1.215
Std Dev 3.655
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

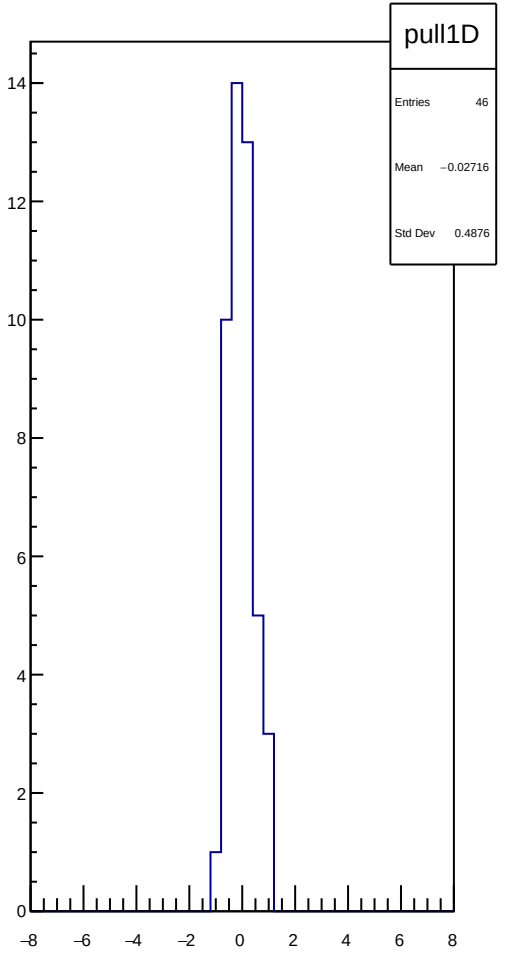

asym_bpm2i01WS_rms vs run
χ² / ndf 1.613e+04 / 45
p0 90.35 ± 0.09326
280
260
240
220
200
180
160
140
120
100
80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

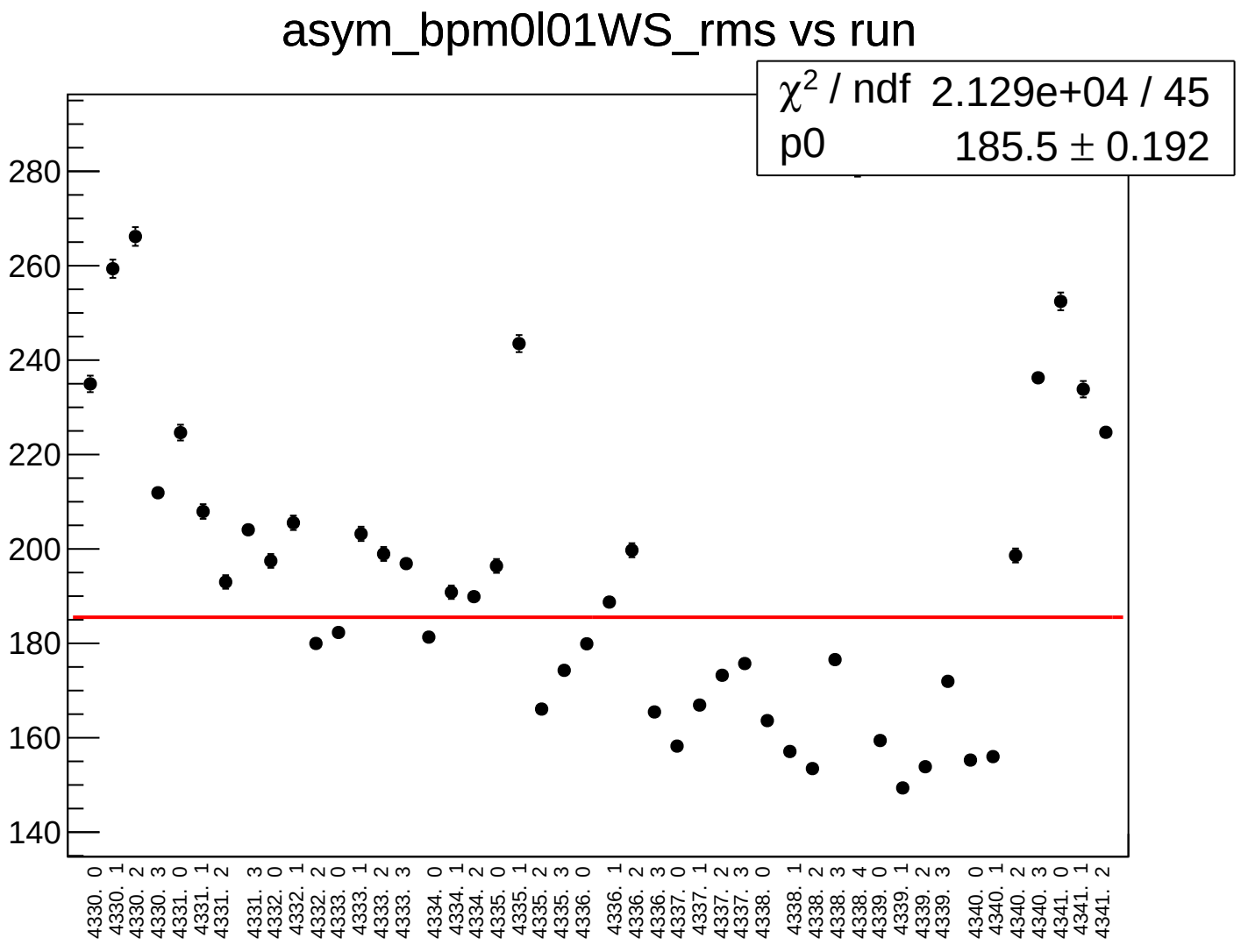

asym_bpm0i07WS_mean vs run
χ² / ndf 28.84 / 45
p0 −148.3 ± 436.1
pull
Entries 46
Mean −405.7
Std Dev 424.3

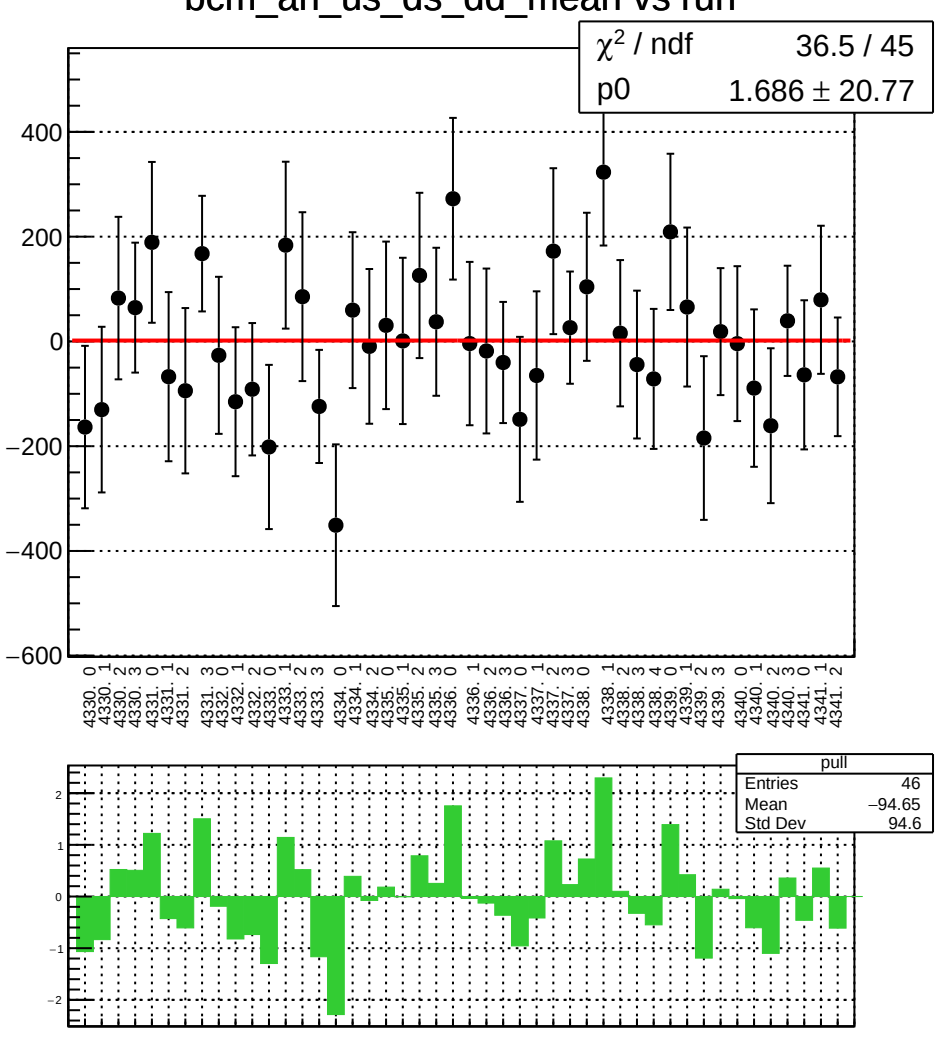

pull1D
Entries 46
Mean 0.003007
Std Dev 0.7918

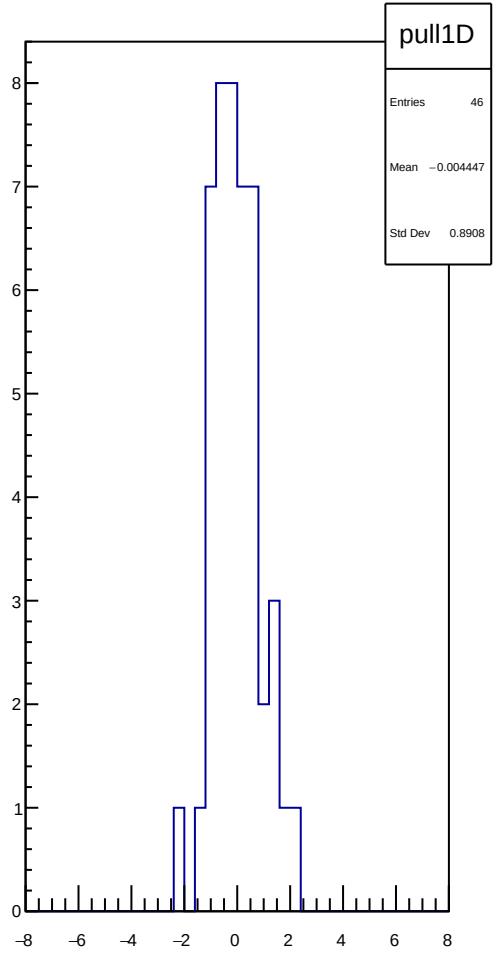

asym_bpm0i07WS_rms vs run
χ² / ndf 6912 / 45
p0 300.2 ± 0.3084
360
340
320
300
280
260
240
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

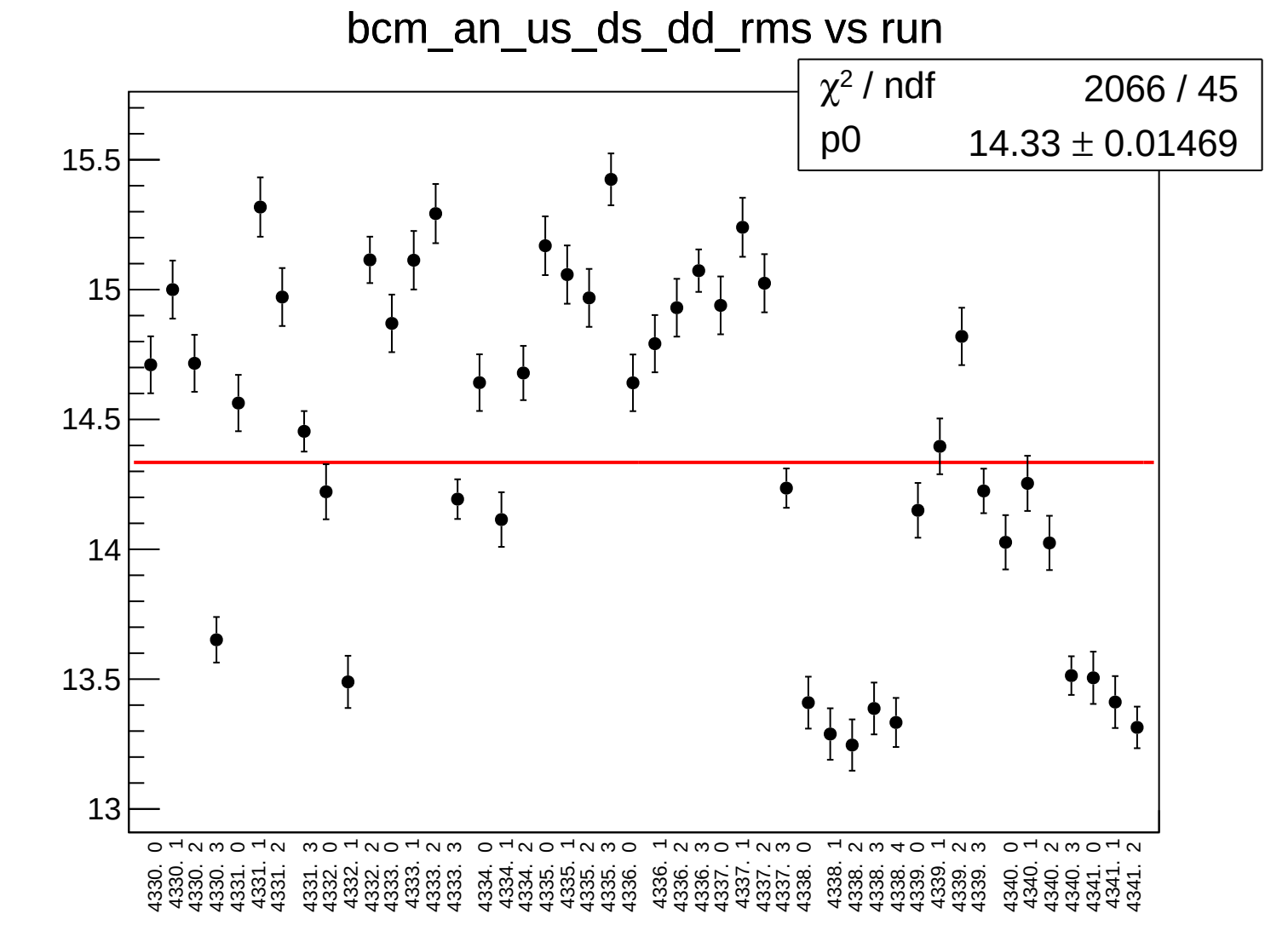

asym_bpm0l01WS_mean vs run
χ² / ndf 10.97 / 45
p0 36.62 ± 271.6
4000
2000
0
−2000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −45.34
Std Dev 66.75
1
0.5
0
−0.5
−1

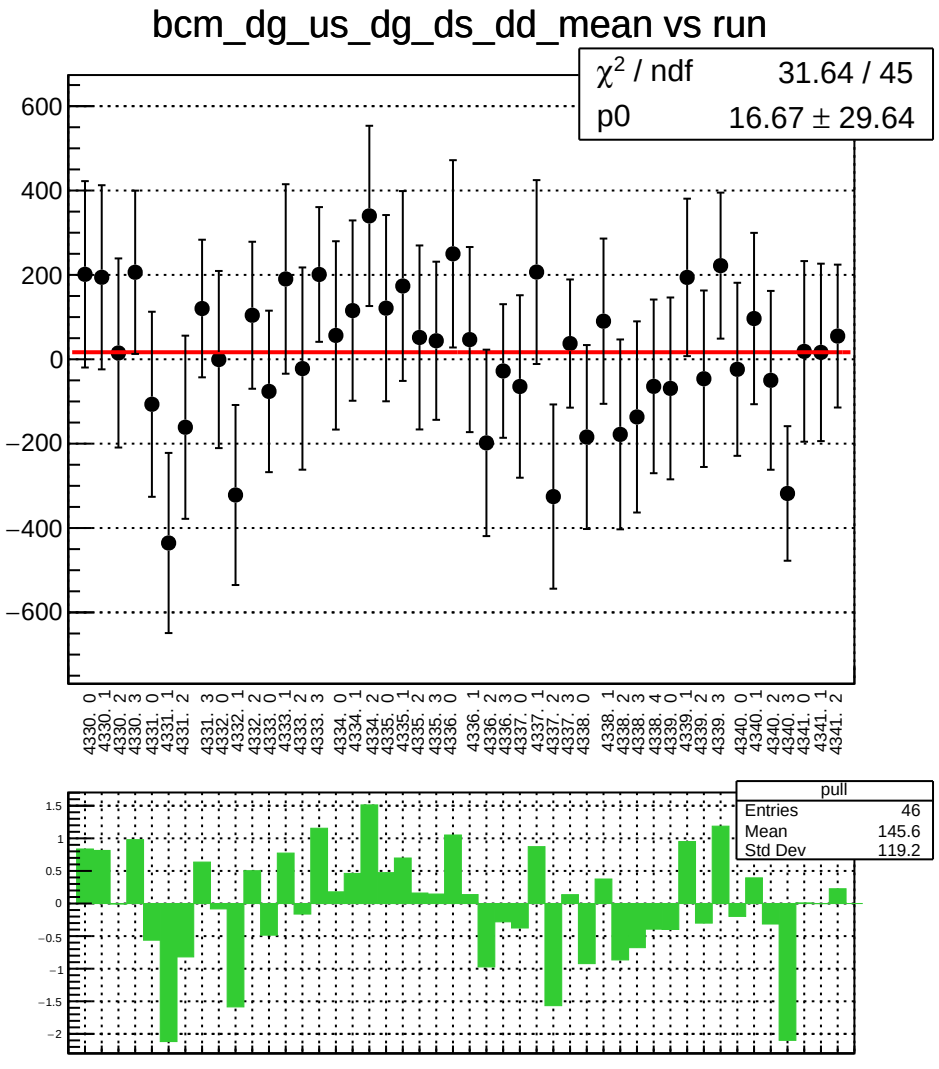

pull1D
Entries 46
Mean −0.02716
Std Dev 0.4876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

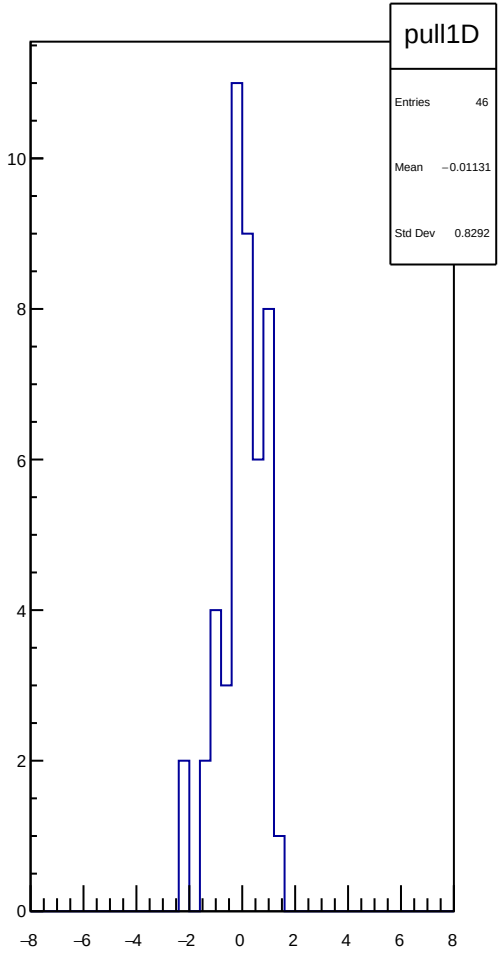

asym_bpm0l01WS_rms vs run
χ² / ndf 2.129e+04 / 45
p0 185.5 ± 0.192
280
260
240
220
200
180
160
140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

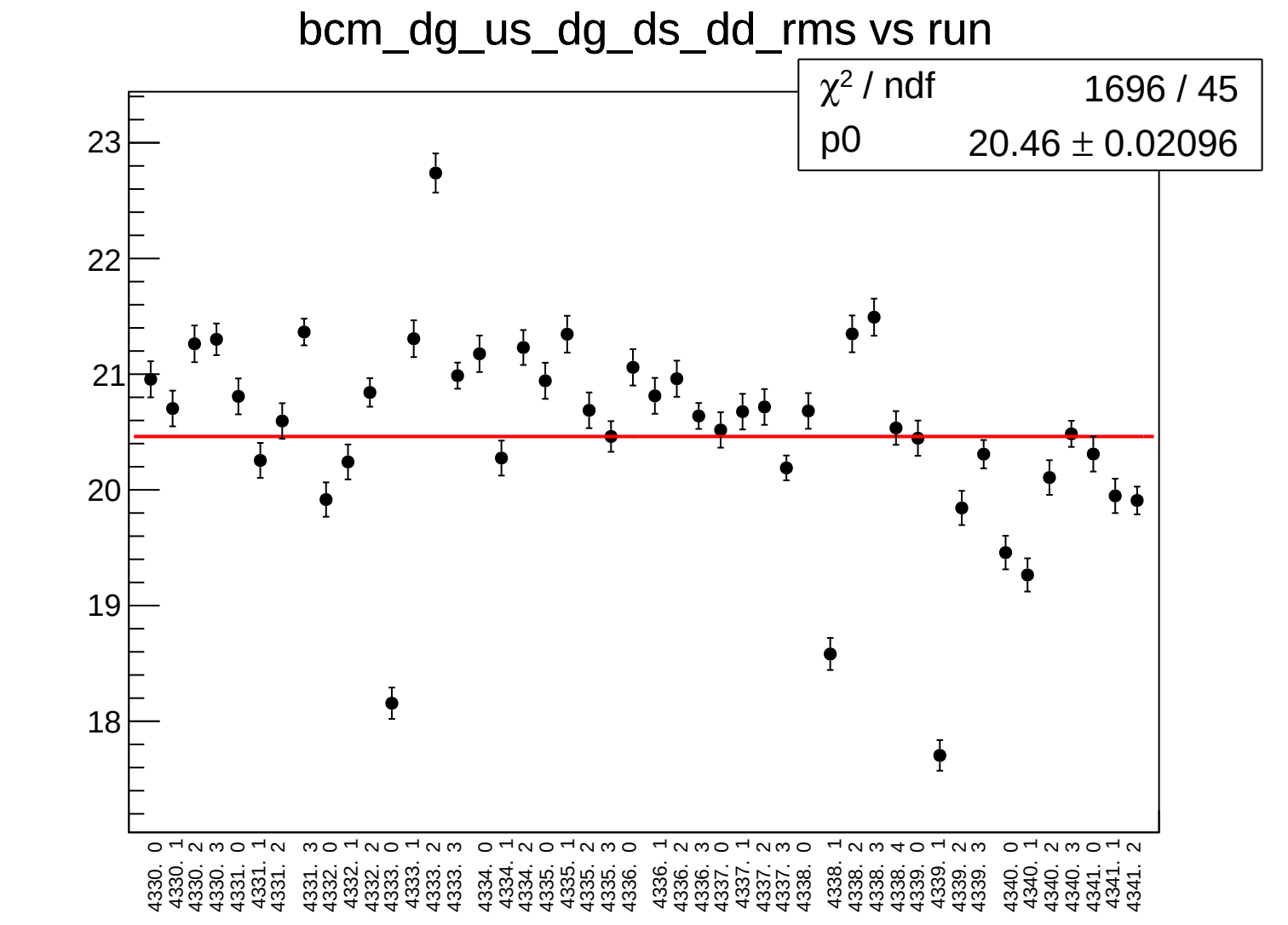

bcm_an_us_ds_dd_mean vs run
χ² / ndf 36.5 / 45
p0 1.686 ± 20.77
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −94.65
Std Dev 94.6
2
1
0
−1
−2

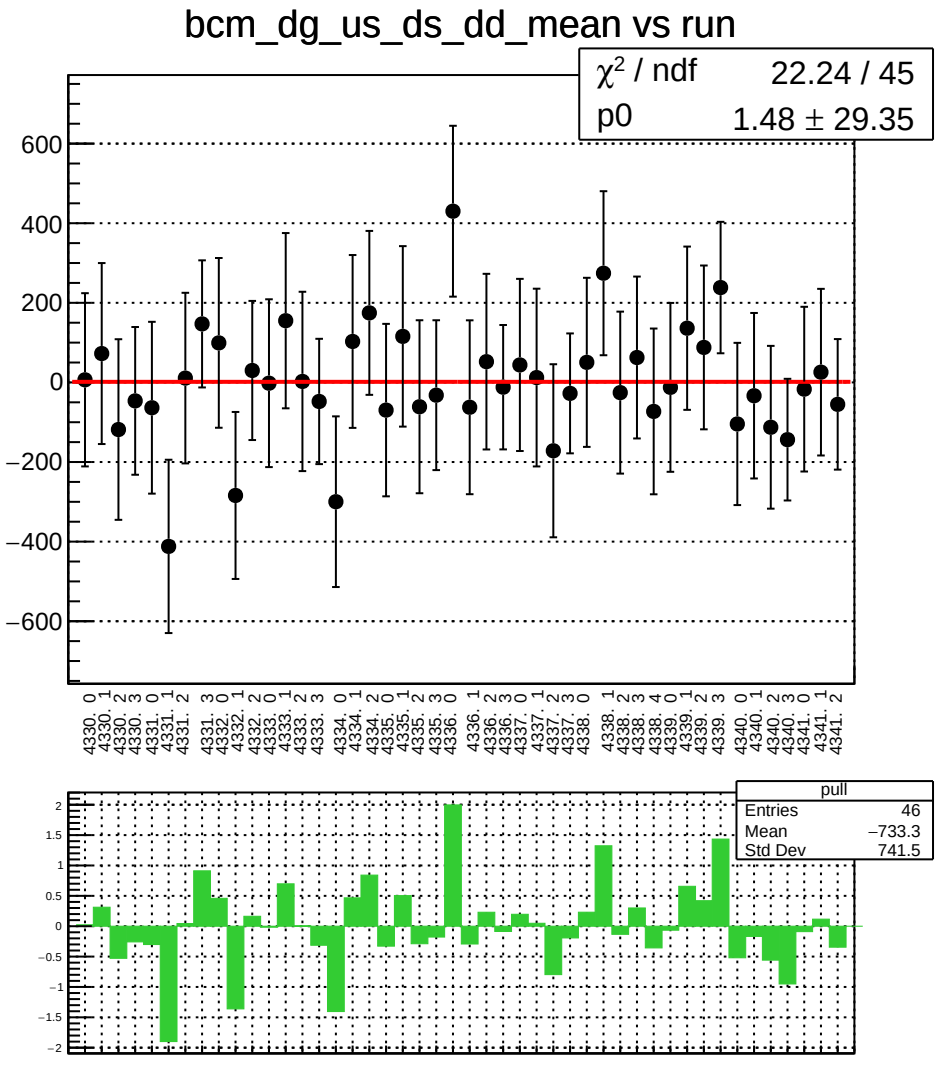

pull1D
Entries 46
Mean −0.004447
Std Dev 0.8908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

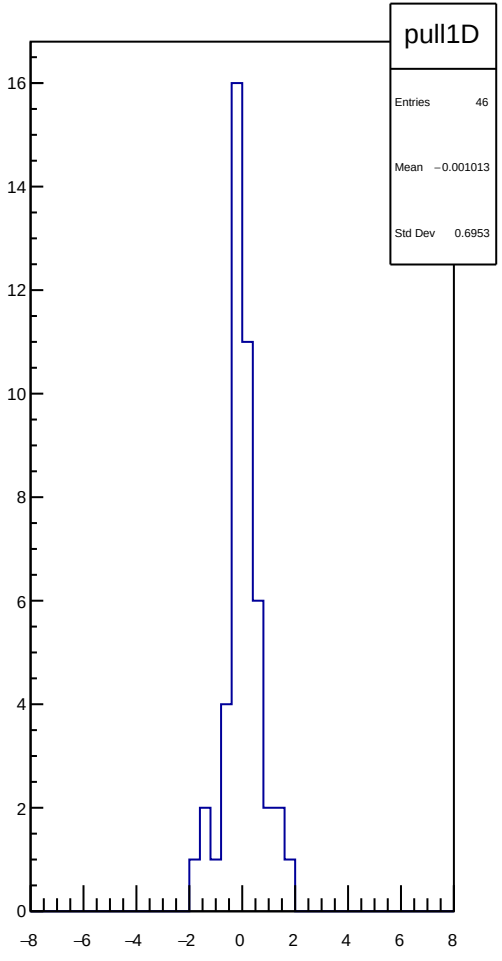

bcm_an_us_ds_dd_rms vs run
χ² / ndf 2066 / 45
p0 14.33 ± 0.01469
15.5
15
14.5
14
13.5
13
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

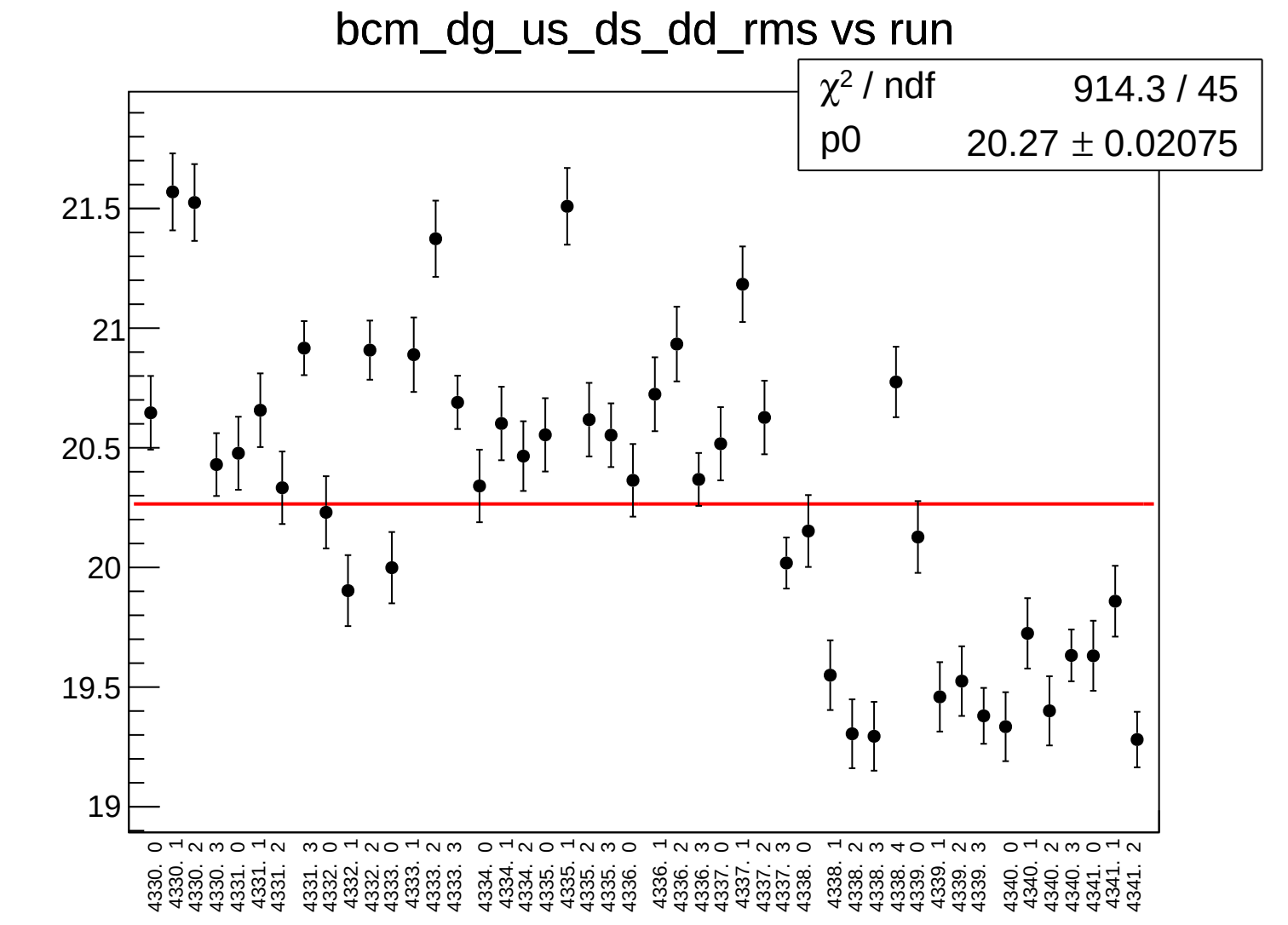

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 31.64 / 45
p0 16.67 ± 29.64
pull
Entries 46
Mean 145.6
Std Dev 119.2

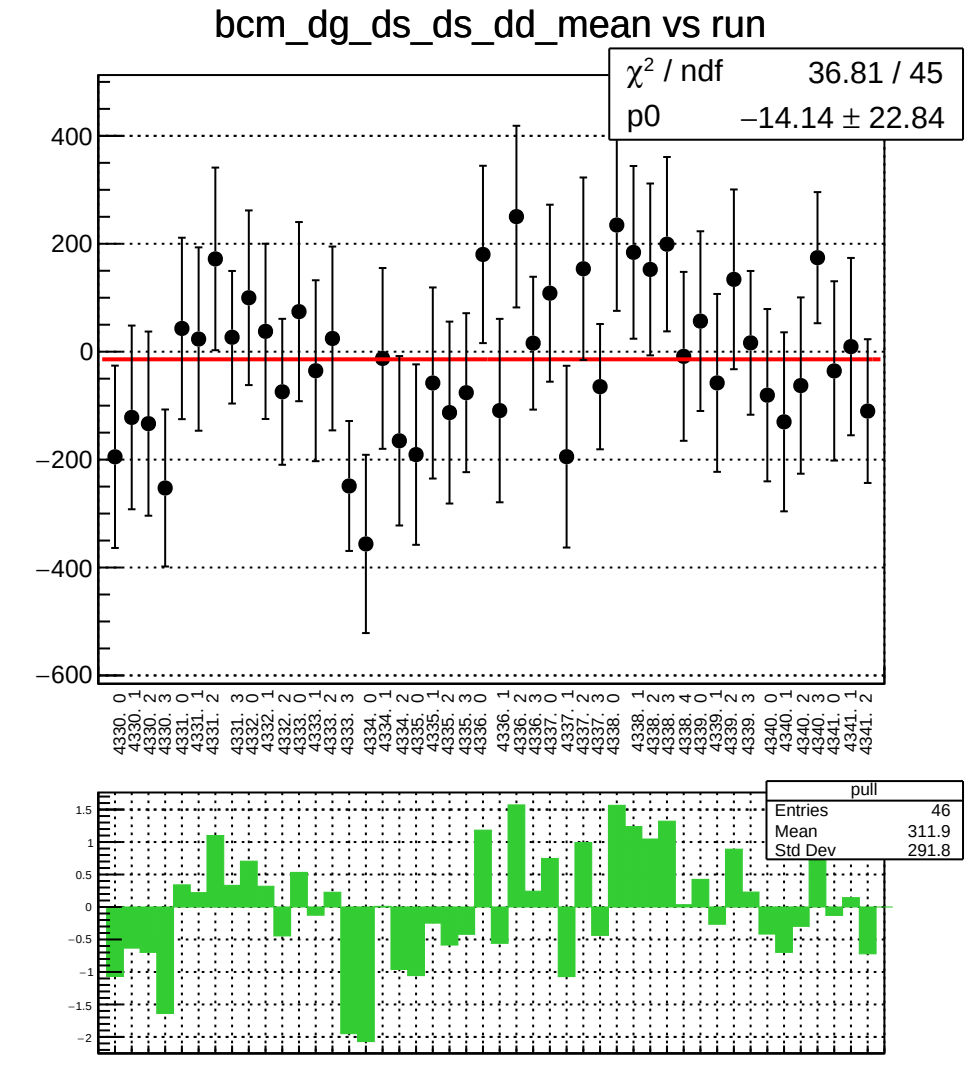

pull1D
Entries 46
Mean −0.01131
Std Dev 0.8292

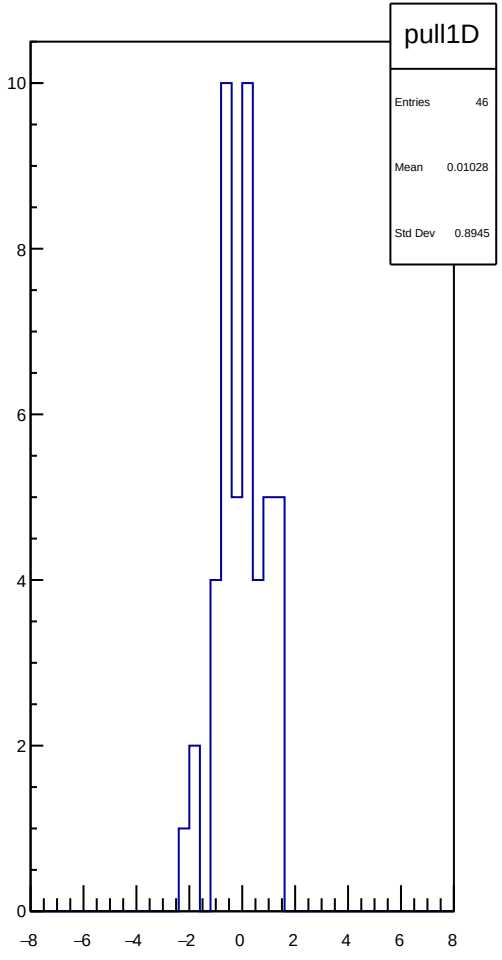

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1696 / 45
p0 20.46 ± 0.02096
23
22
21
20
19
18
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

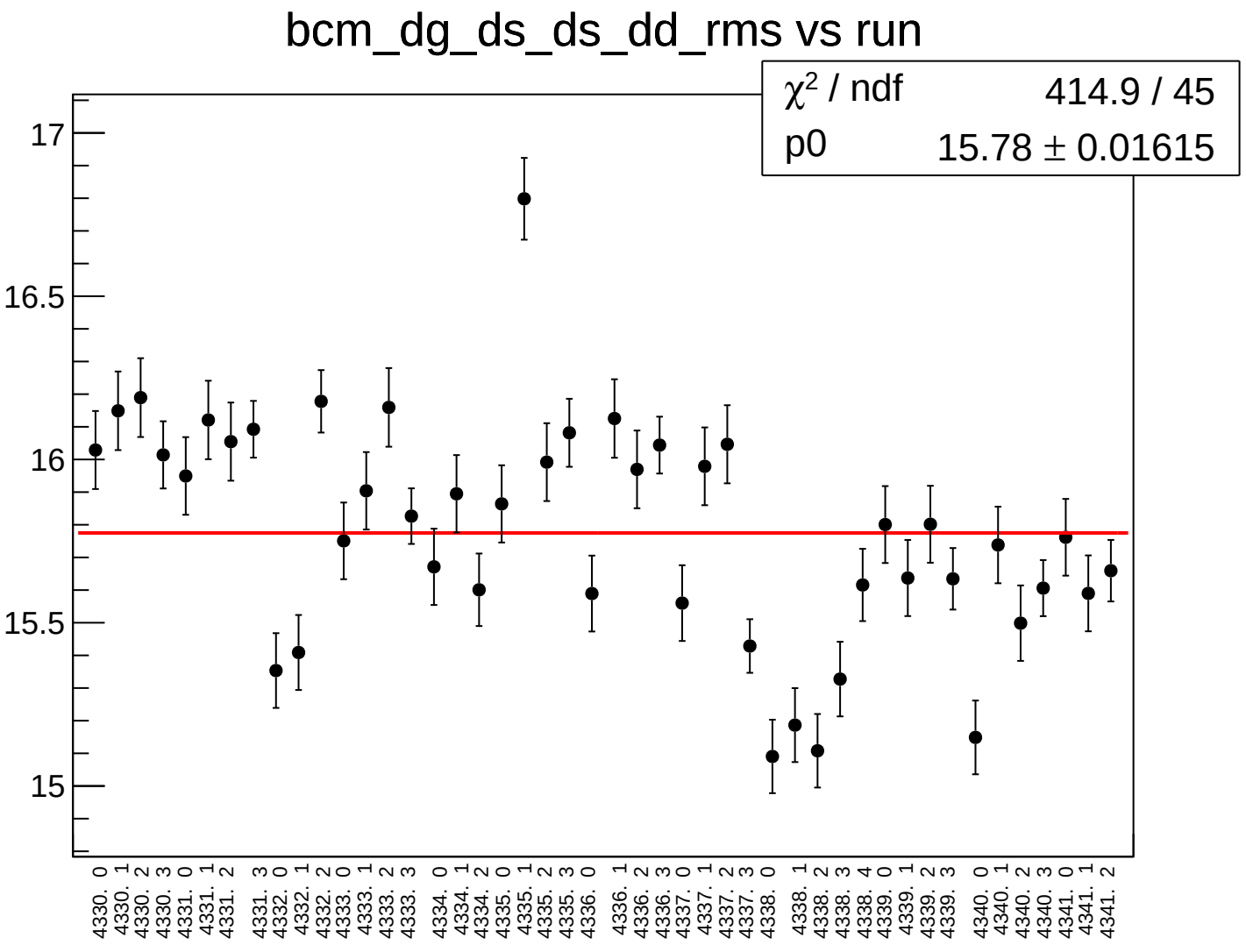

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 22.24 / 45
p0 1.48 ± 29.35
pull
Entries 46
Mean −733.3
Std Dev 741.5

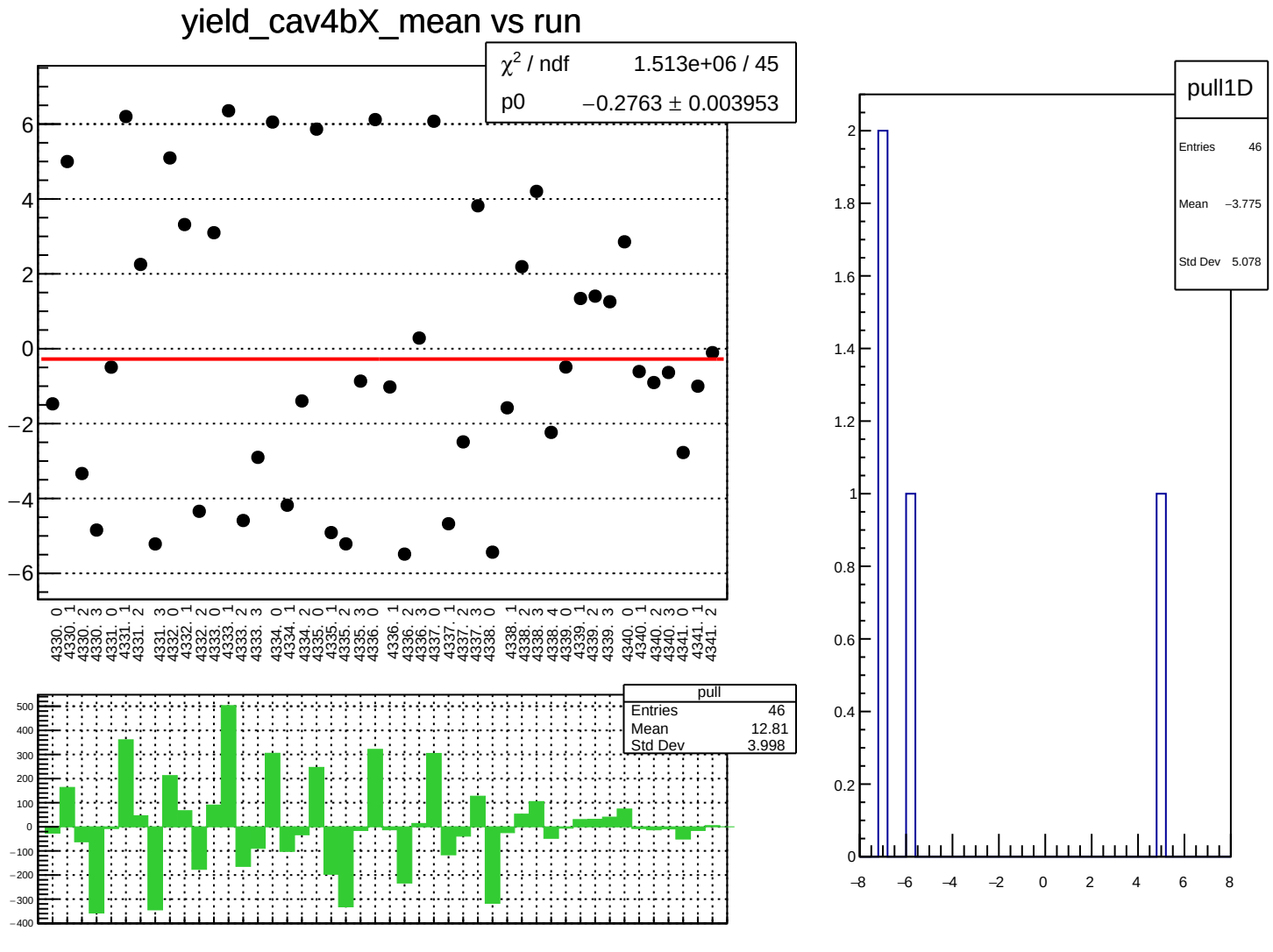

pull1D
Entries 46
Mean −0.001013
Std Dev 0.6953

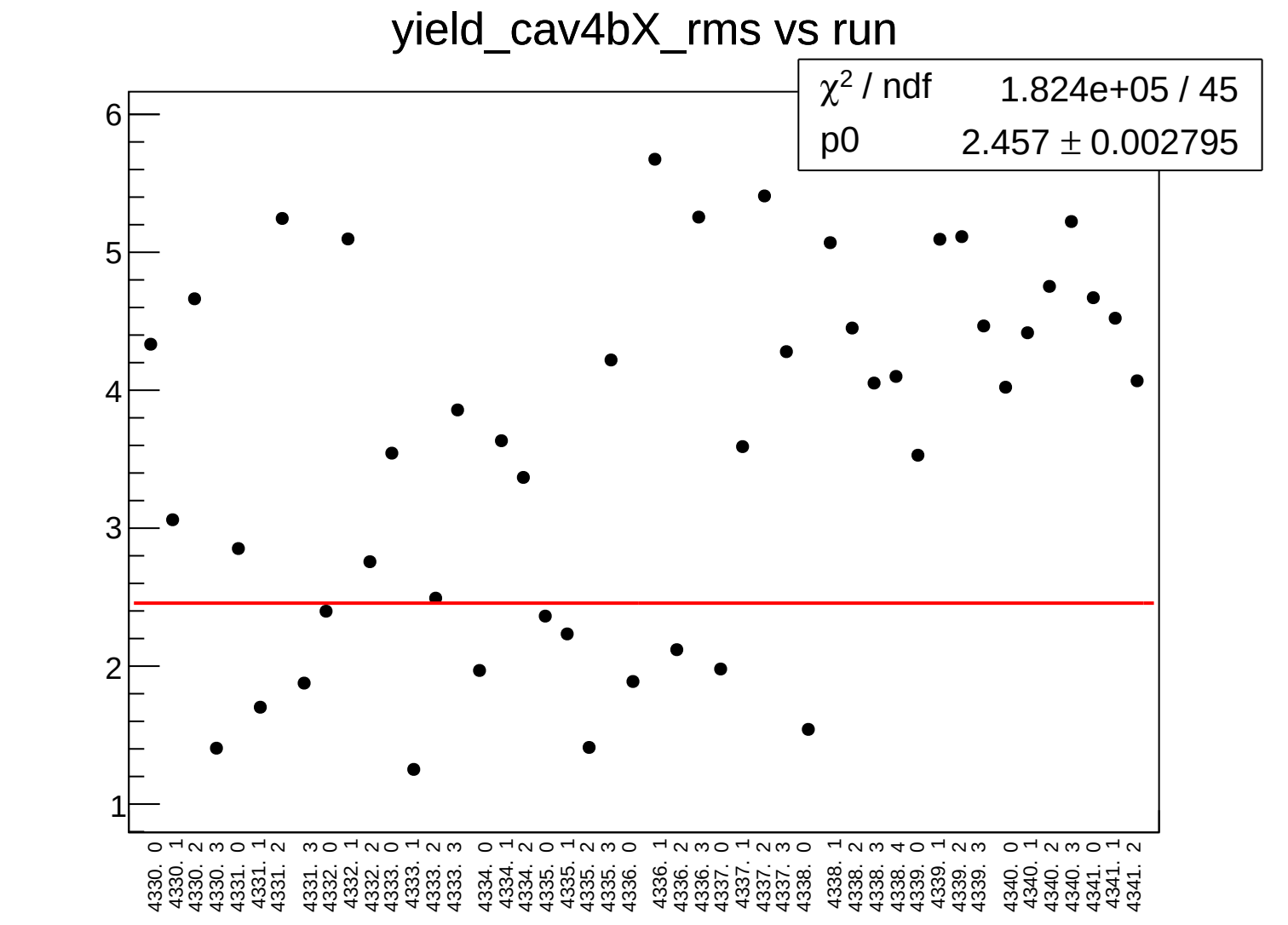

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 914.3 / 45
p0 20.27 ± 0.02075
21.5
21
20.5
20
19.5
19
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

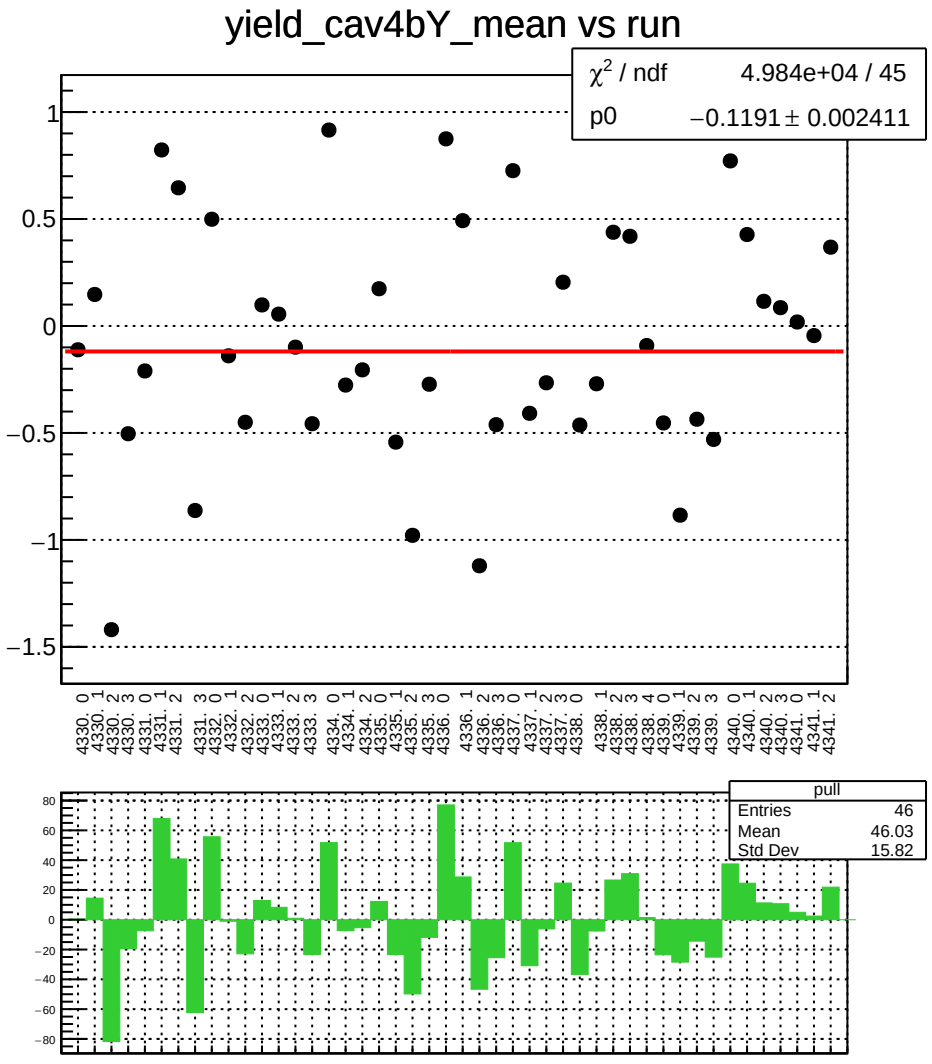

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 36.81 / 45
p0 −14.14 ± 22.84
400
200
0
−200
−400
−600
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 311.9
Std Dev 291.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

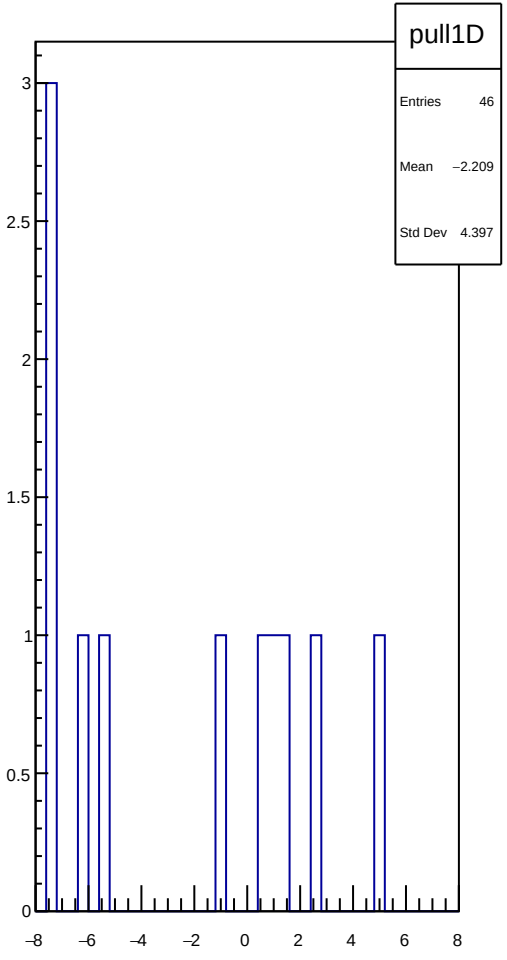

pull1D
Entries 46
Mean 0.01028
Std Dev 0.8945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

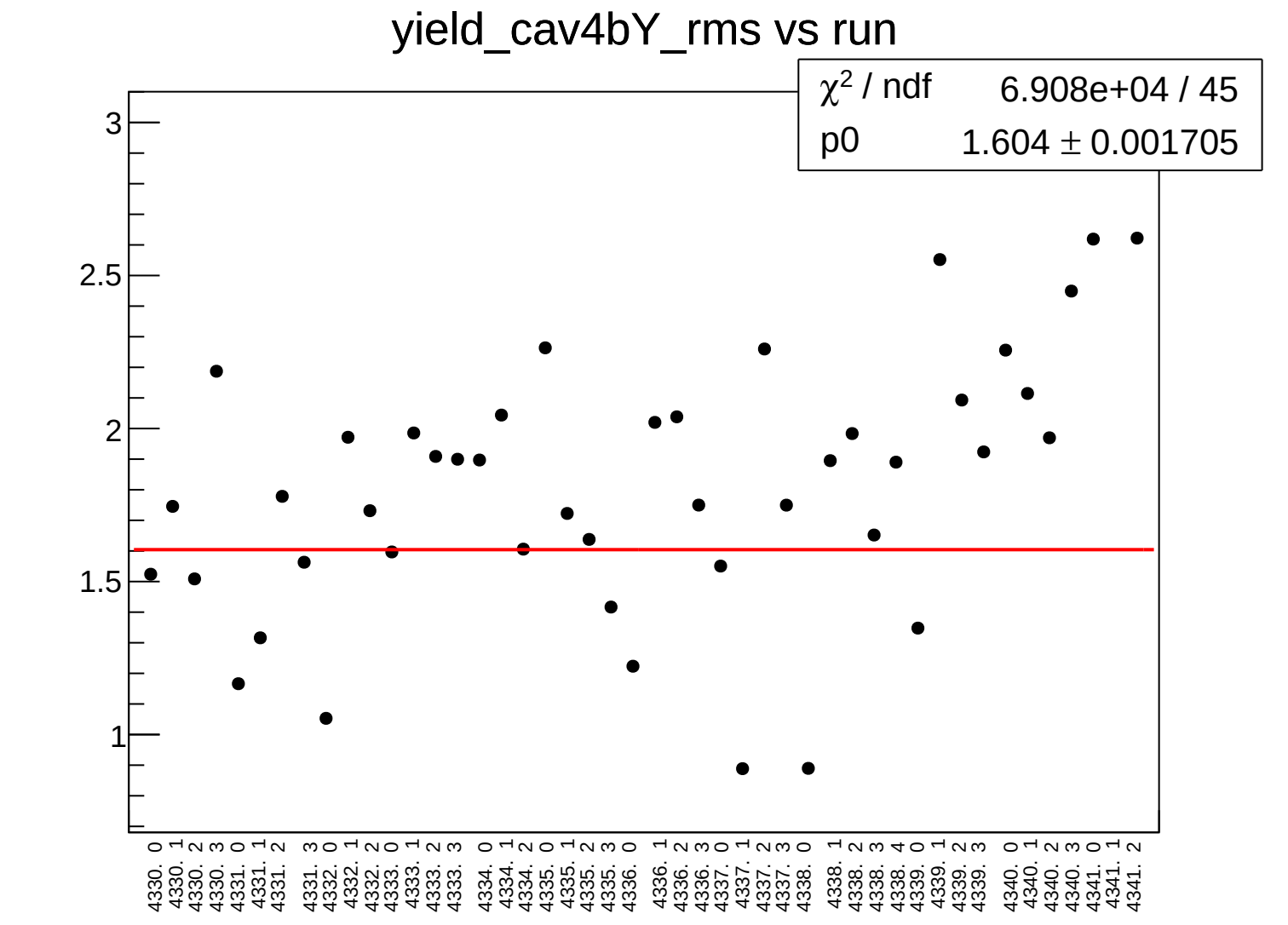

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 414.9 / 45
p0 15.78 ± 0.01615
17
16.5
16
15.5
15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

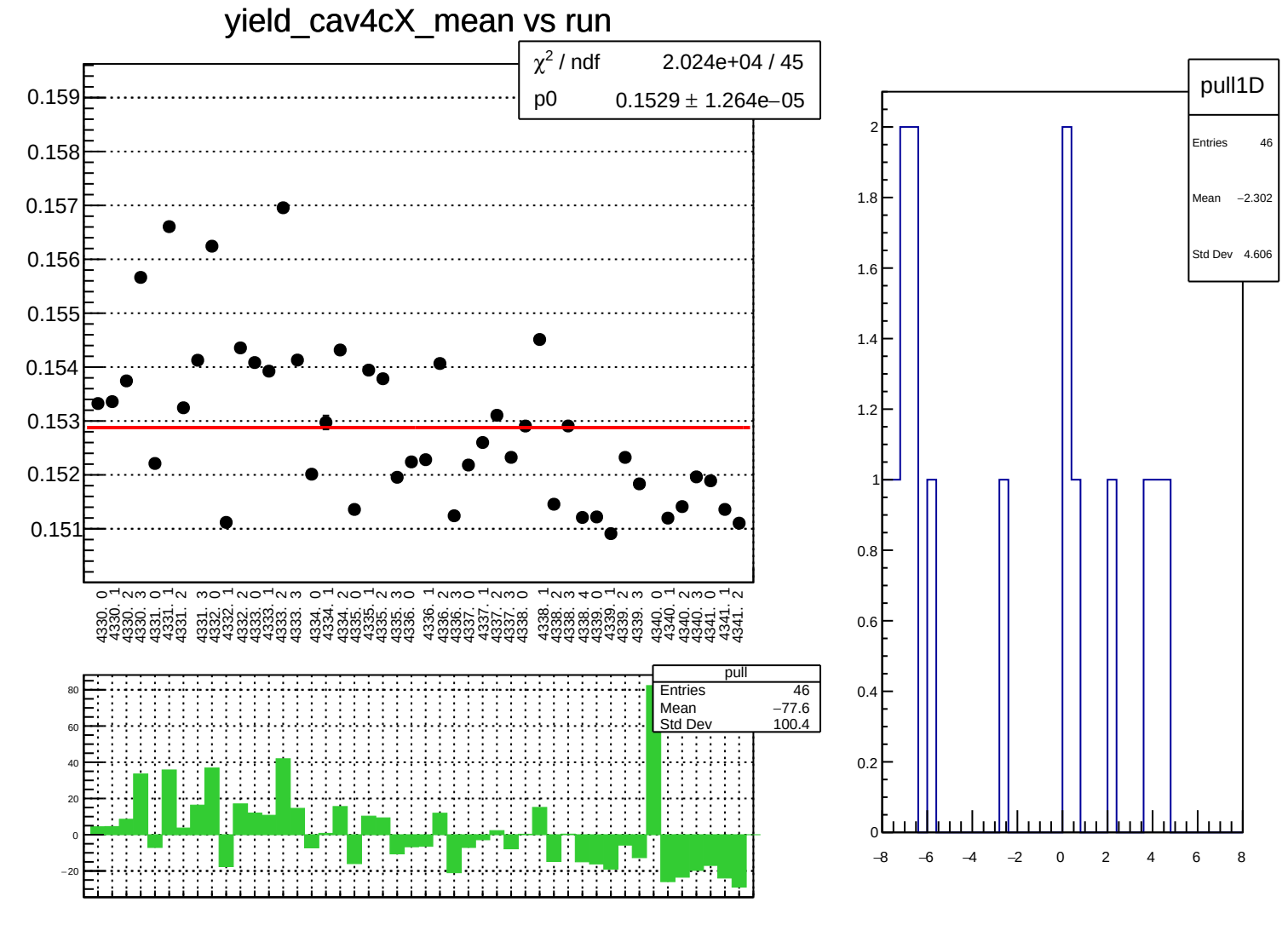

yield_cav4bX_mean vs run
χ² / ndf 1.513e+06 / 45
p0 −0.2763 ± 0.003953
pull
Entries 46
Mean 12.81
Std Dev 3.998
pull1D
Entries 46
Mean −3.775
Std Dev 5.078

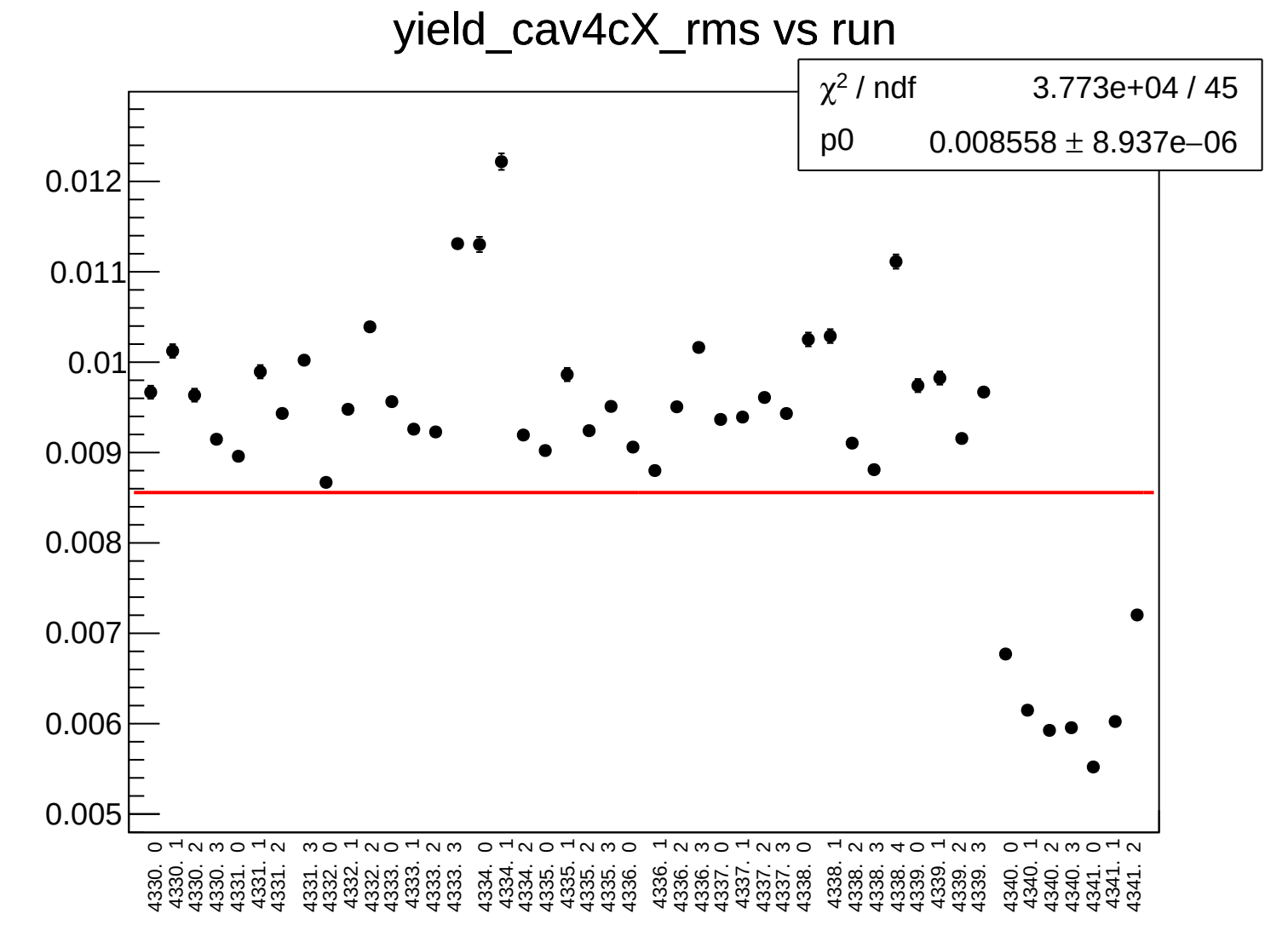

yield_cav4bX_rms vs run
χ^2 / ndf 1.824e+05 / 45
p0 2.457 ± 0.002795
6
5
4
3
2
1
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

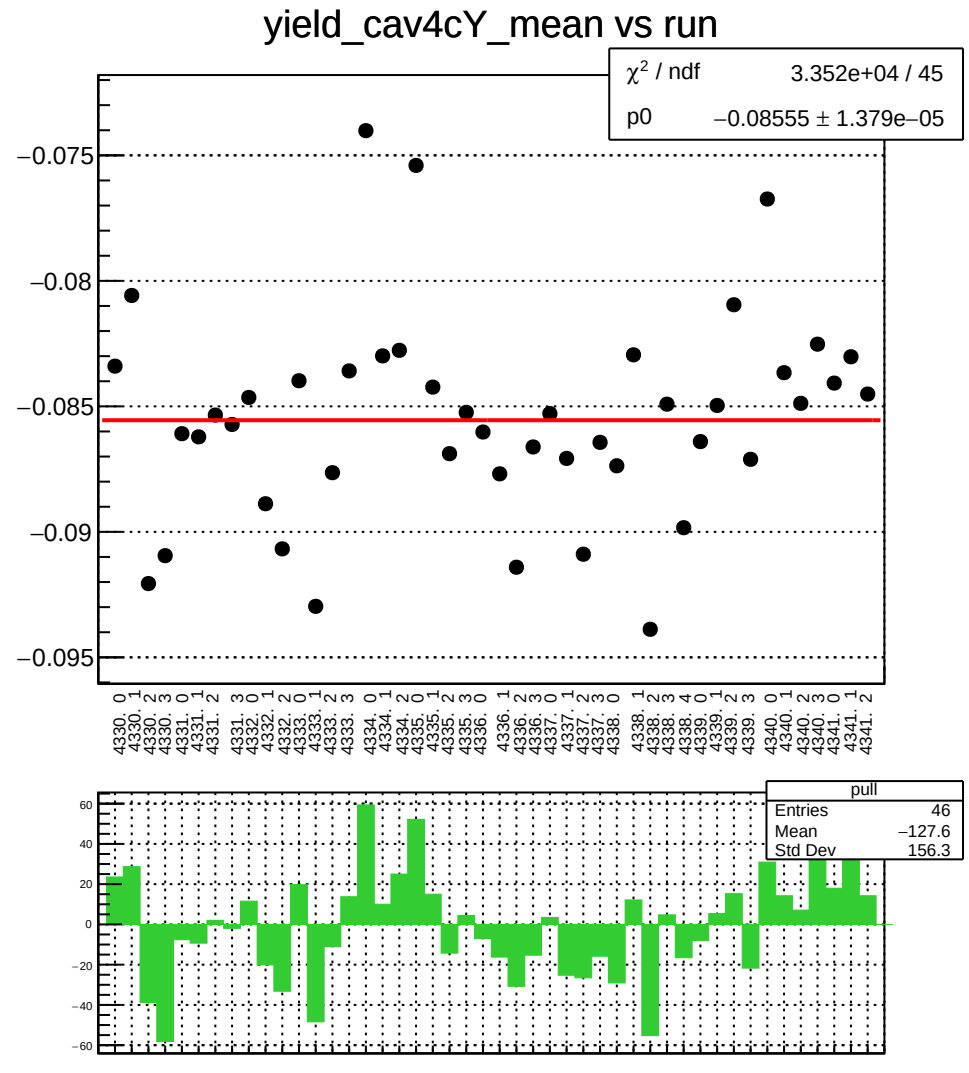

yield_cav4bY_mean vs run
χ² / ndf 4.984e+04 / 45
p0 −0.1191 ± 0.002411
pull
Entries 46
Mean 46.03
Std Dev 15.82

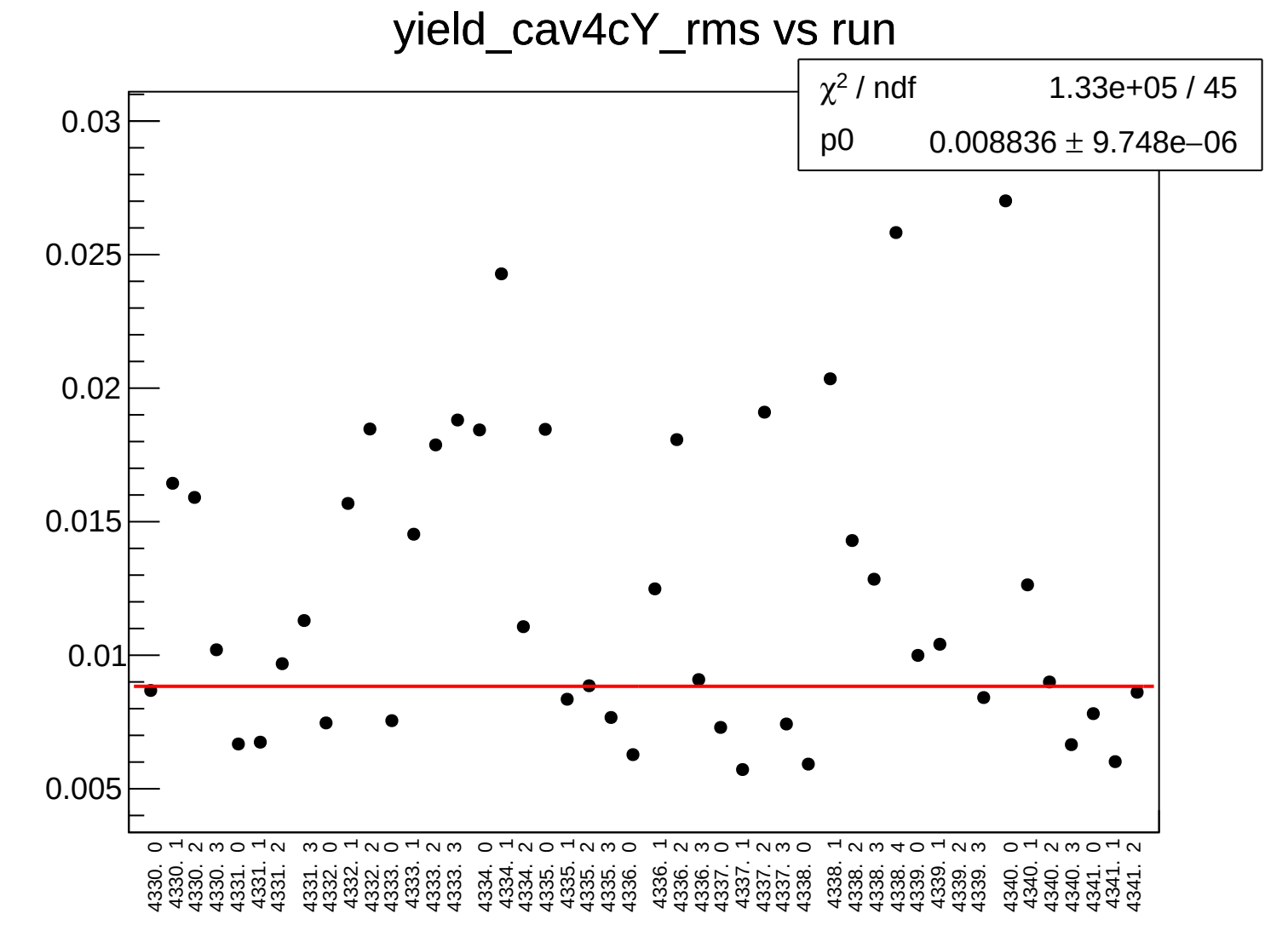

pull1D
Entries 46
Mean −2.209
Std Dev 4.397

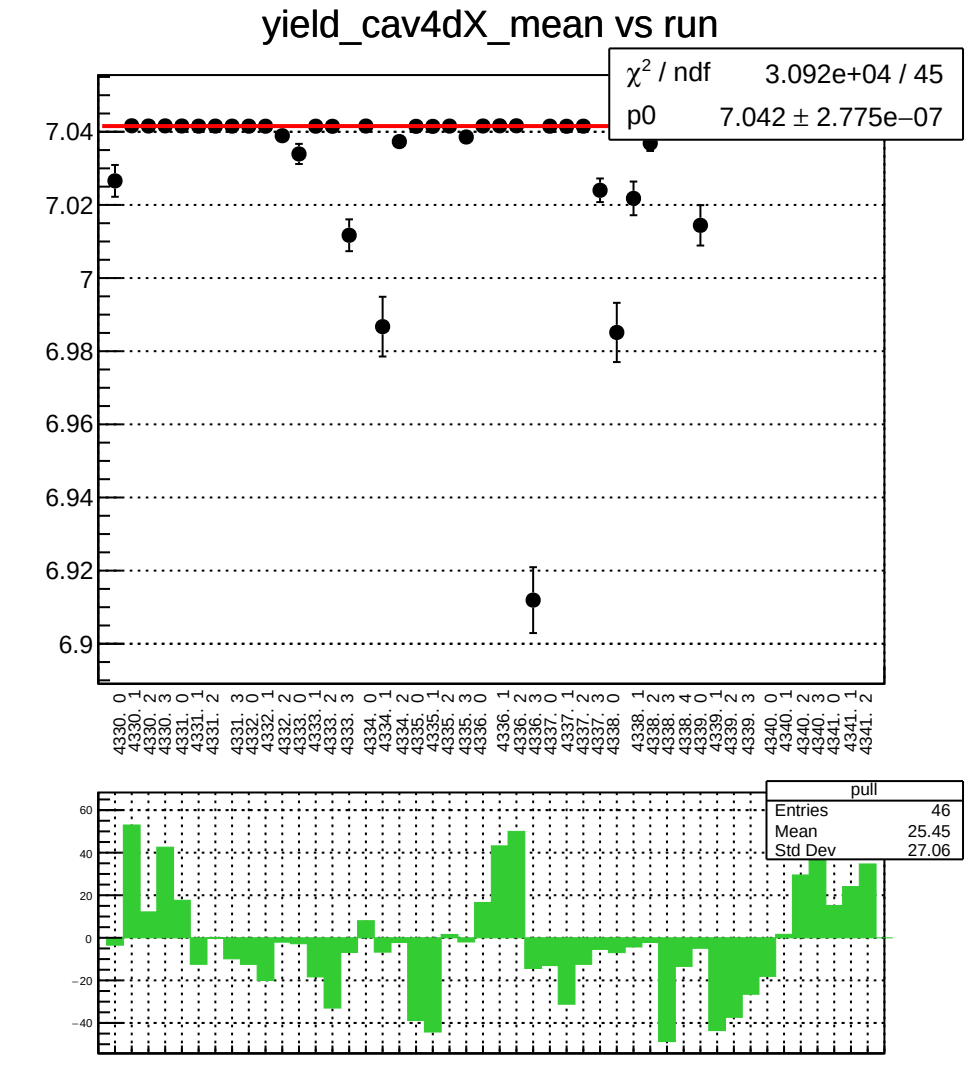

yield_cav4bY_rms vs run
χ² / ndf 6.908e+04 / 45
p0 1.604 ± 0.001705
3
2.5
2
1.5
1
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

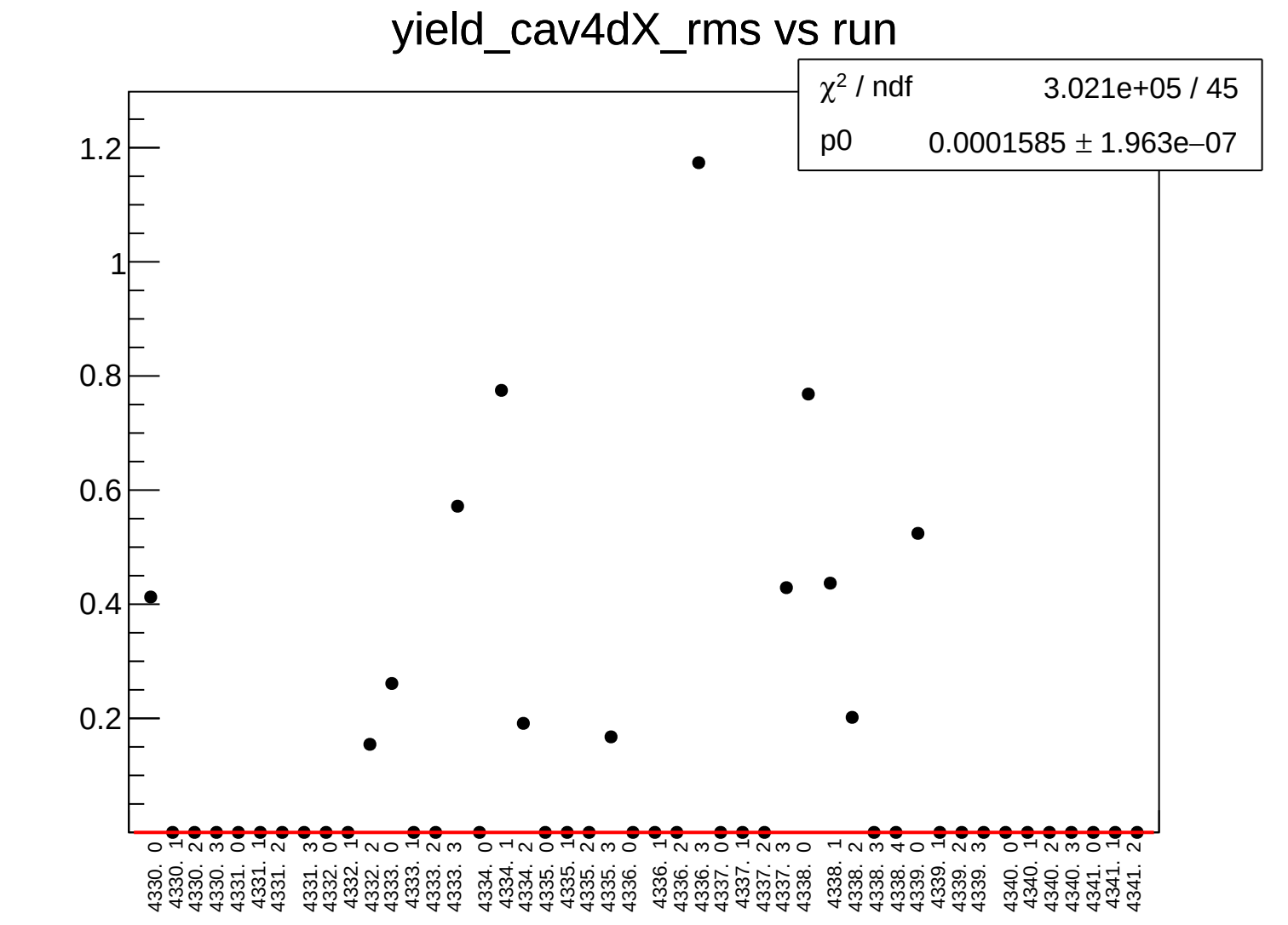

yield_cav4cX_mean vs run
χ² / ndf 2.024e+04 / 45
p0 0.1529 ± 1.264e−05
0.159
0.158
0.157
0.156
0.155
0.154
0.153
0.152
0.151
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −77.6
Std Dev 100.4
80
60
40
20
0
−20
pull1D
Entries 46
Mean −2.302
Std Dev 4.606
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

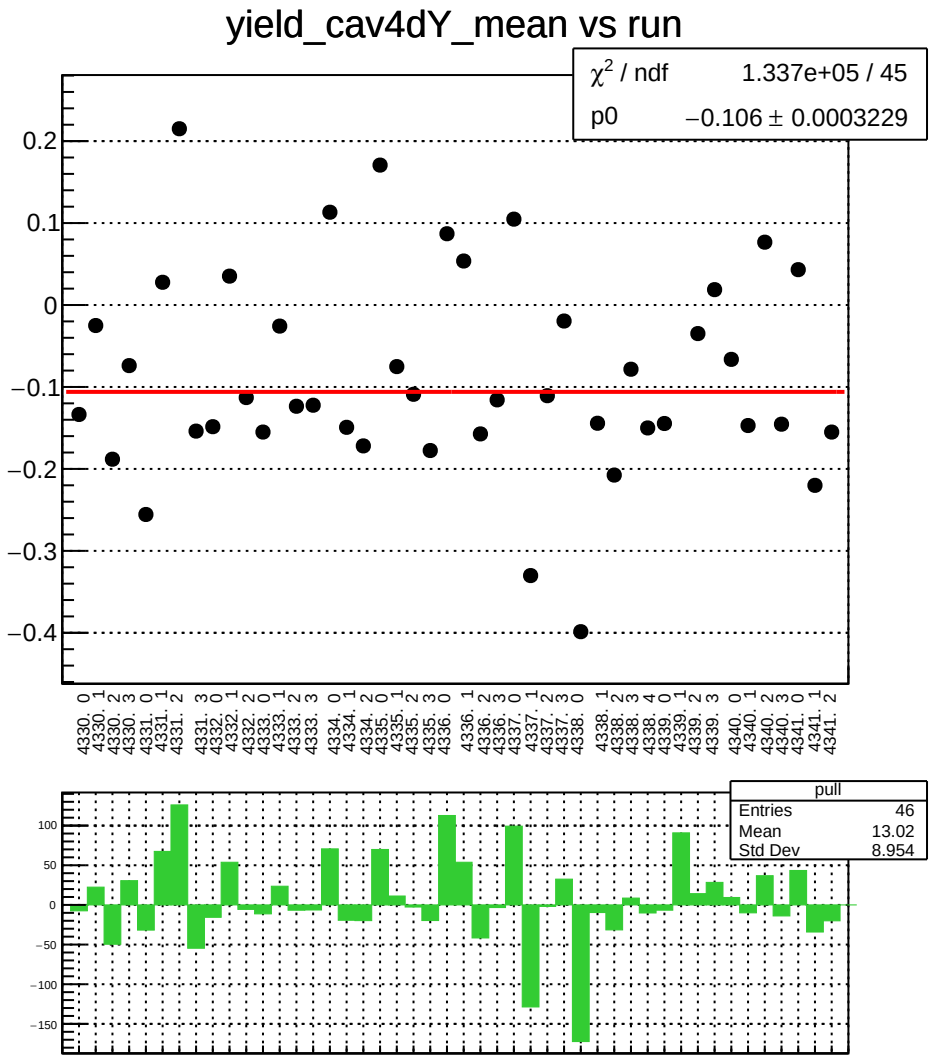

yield_cav4cX_rms vs run
χ² / ndf 3.773e+04 / 45
p0 0.008558 ± 8.937e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

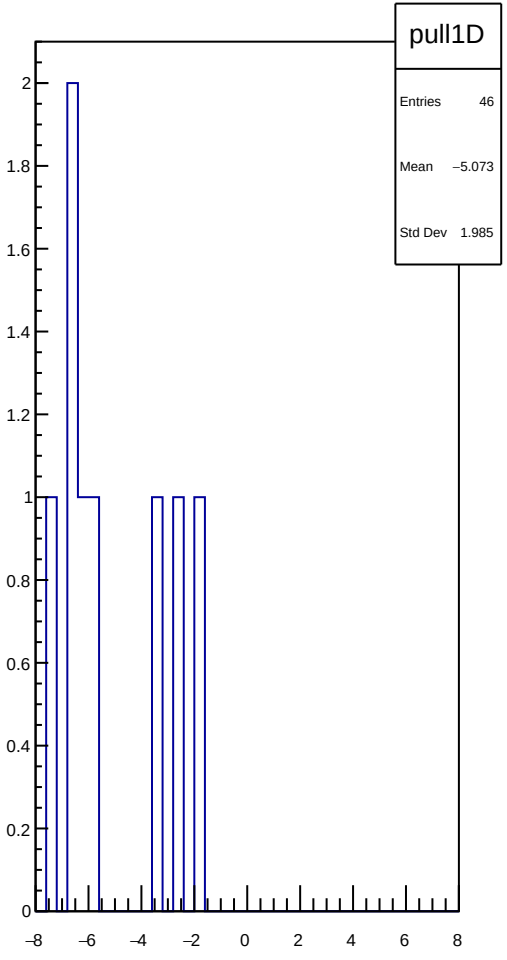

yield_cav4cY_mean vs run
χ² / ndf 3.352e+04 / 45
p0 −0.08555 ± 1.379e−05
−0.075
−0.08
−0.085
−0.09
−0.095
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 1
4332. 2
4332. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −127.6
Std Dev 156.3
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean 1.167
Std Dev 5.131
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

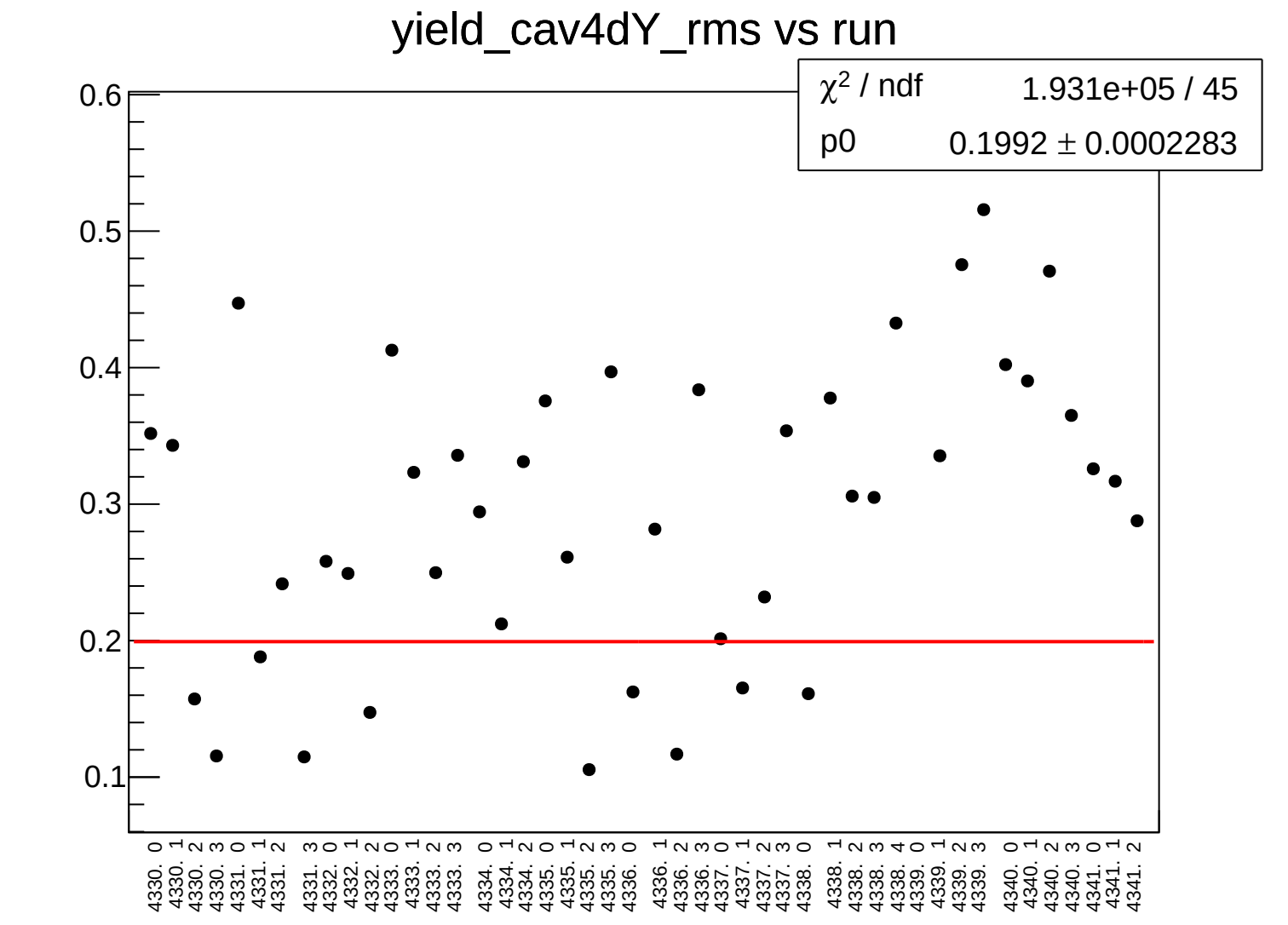

yield_cav4cY_rms vs run
χ² / ndf 1.33e+05 / 45
p0 0.008836 ± 9.748e−06
0.03
0.025
0.02
0.015
0.01
0.005
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

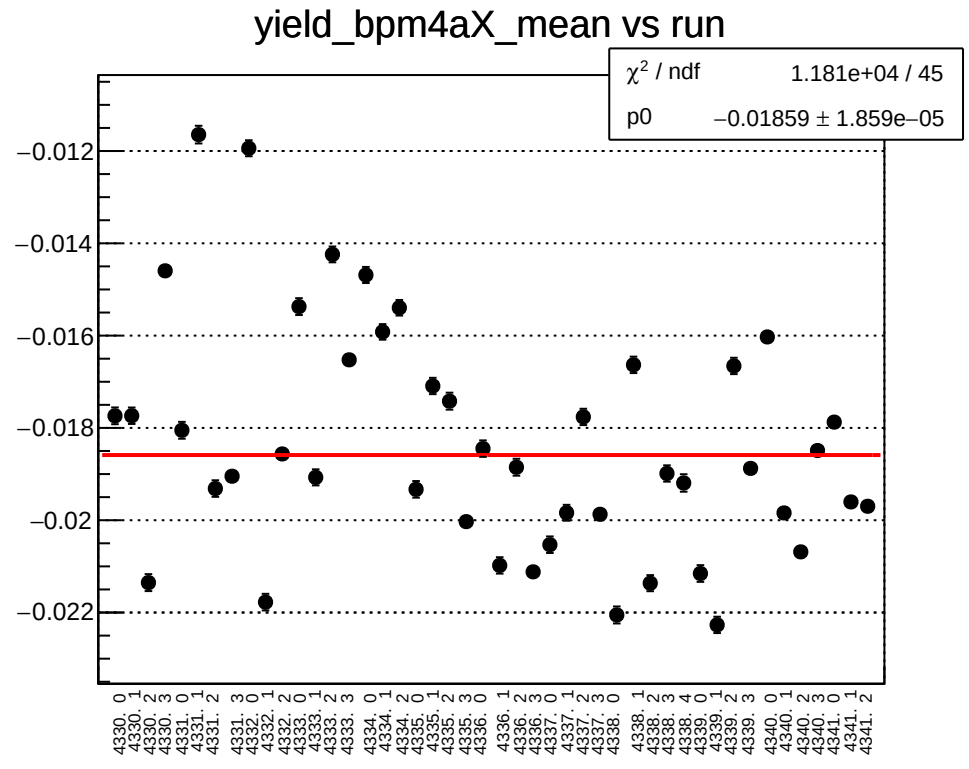

yield_cav4dX_mean vs run
χ² / ndf 3.092e+04 / 45
p0 7.042 ± 2.775e−07
7.04
7.02
7
6.98
6.96
6.94
6.92
6.9
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 25.45
Std Dev 27.06
60
40
20
0
−20
−40
pull1D
Entries 46
Mean −3.115
Std Dev 2.702
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

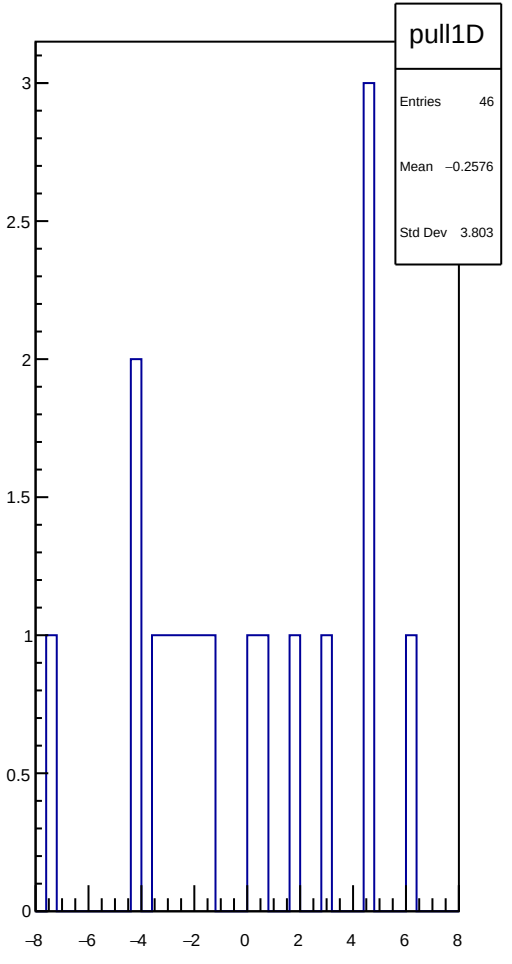

yield_cav4dX_rms vs run
χ² / ndf 3.021e+05 / 45
p0 0.0001585 ± 1.963e−07
1.2
1
0.8
0.6
0.4
0.2
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

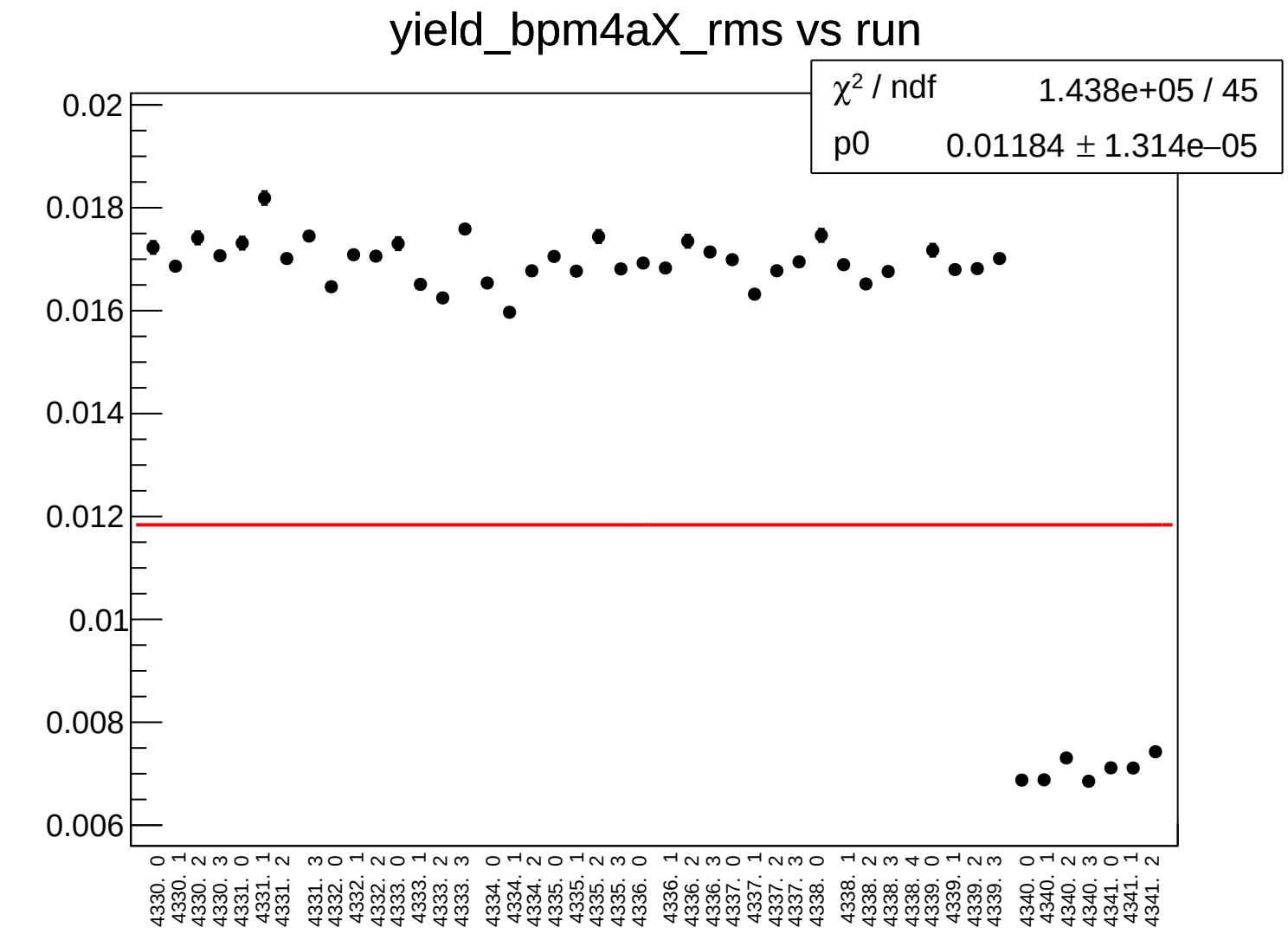

yield_cav4dY_mean vs run
χ² / ndf 1.337e+05 / 45
p0 −0.106 ± 0.0003229
pull
Entries 46
Mean 13.02
Std Dev 8.954

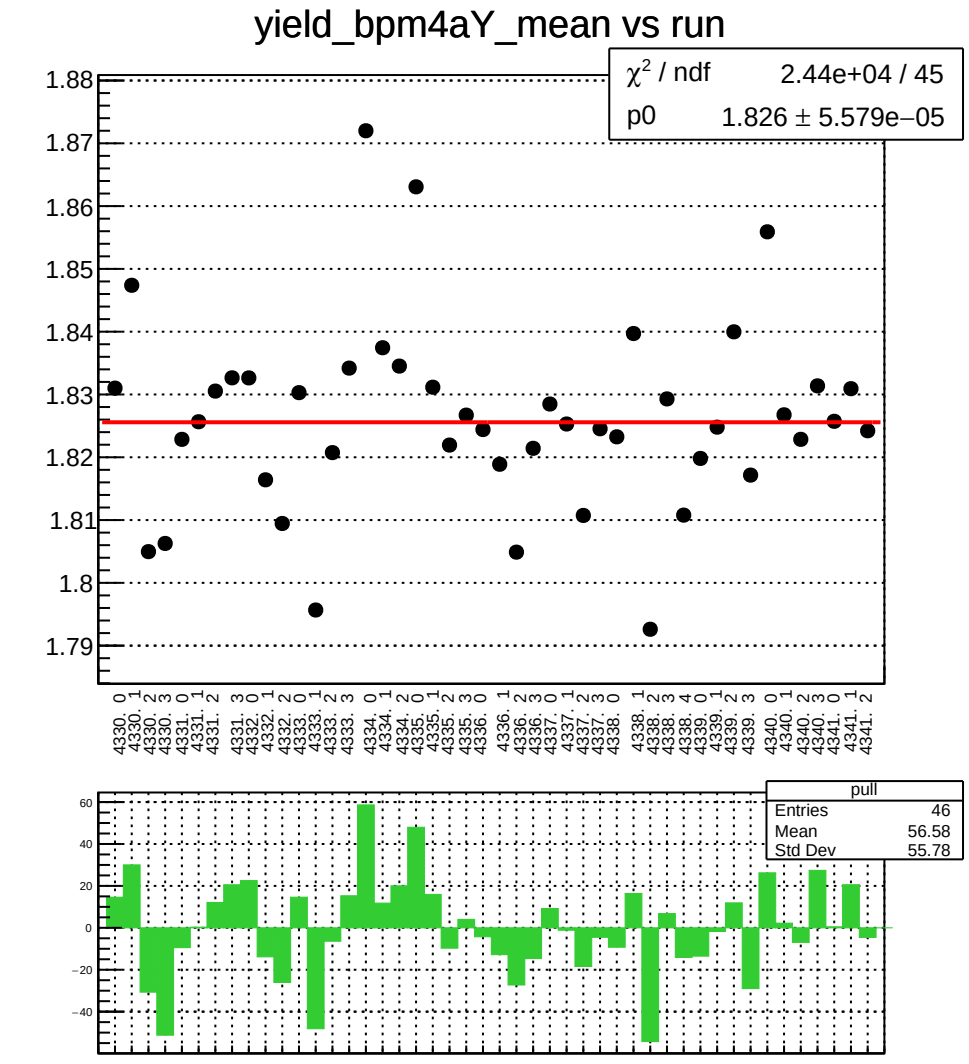

pull1D
Entries 46
Mean −5.073
Std Dev 1.985

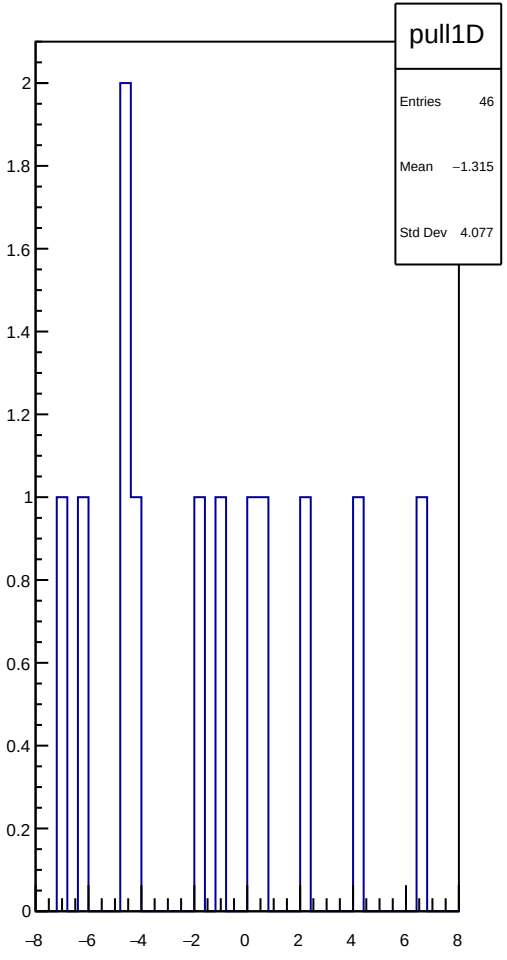

yield_cav4dY_rms vs run
χ² / ndf 1.931e+05 / 45
p0 0.1992 ± 0.0002283
0.6
0.5
0.4
0.3
0.2
0.1
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

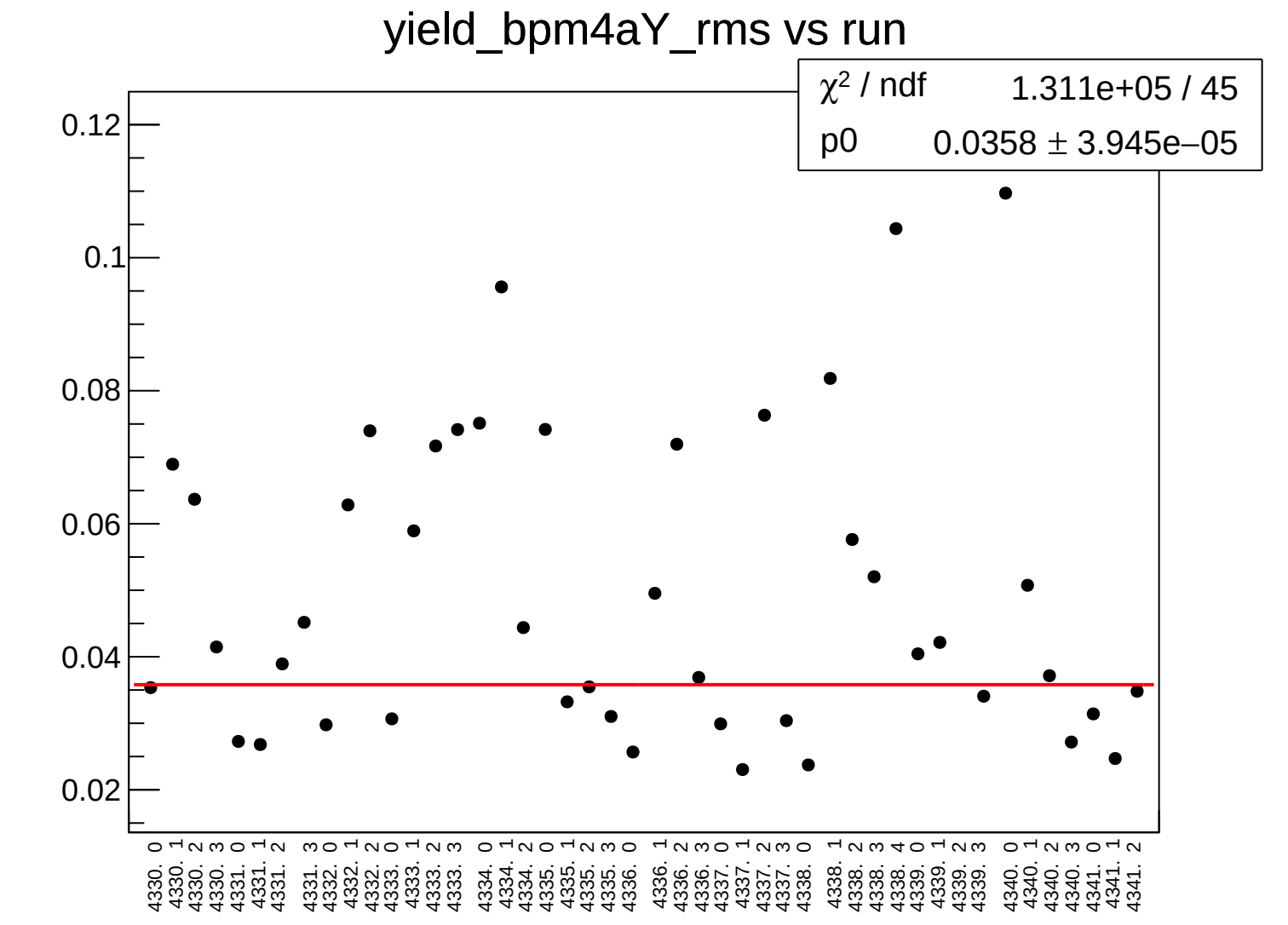

yield_bpm4aX_mean vs run
χ² / ndf 1.181e+04 / 45
p0 −0.01859 ± 1.859e−05
−0.012
−0.014
−0.016
−0.018
−0.02
−0.022
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −57.57
Std Dev 79.43
40
30
20
10
0
−10
−20
−30

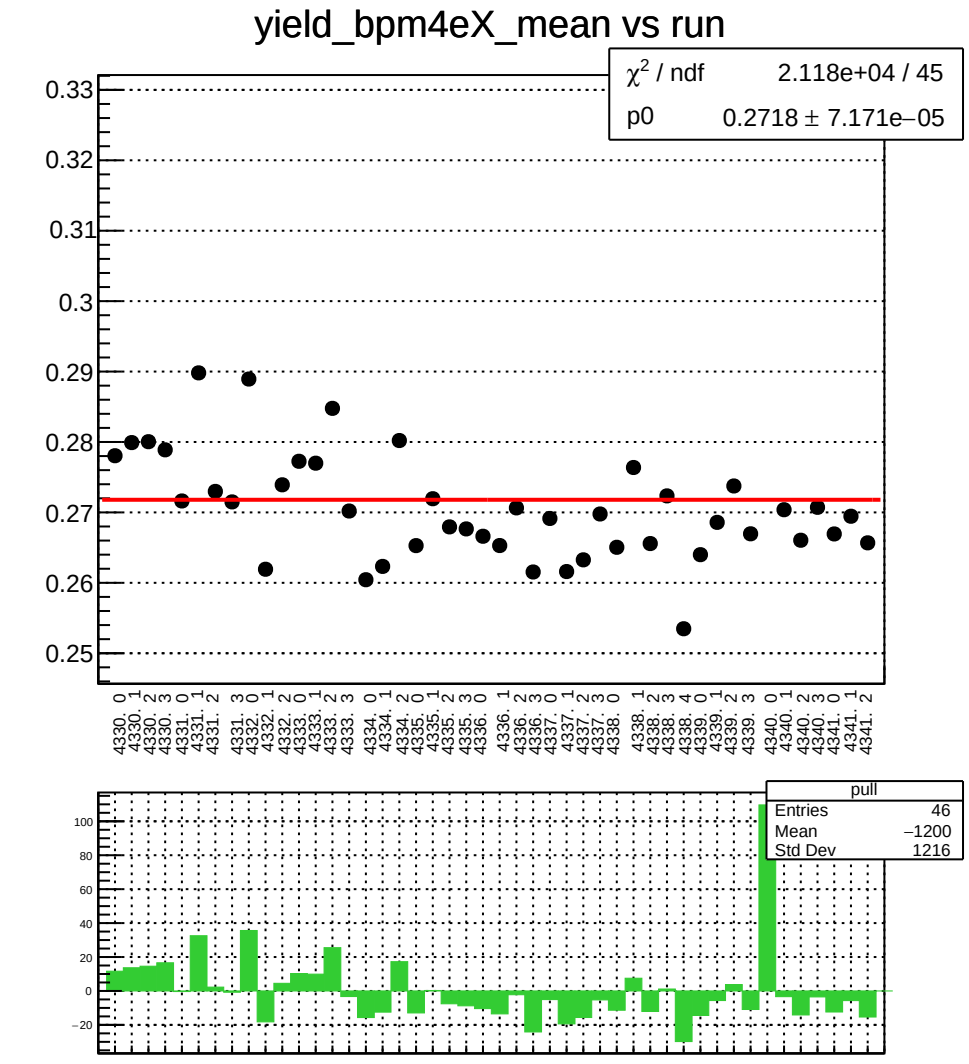

pull1D
Entries 46
Mean −0.2576
Std Dev 3.803
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

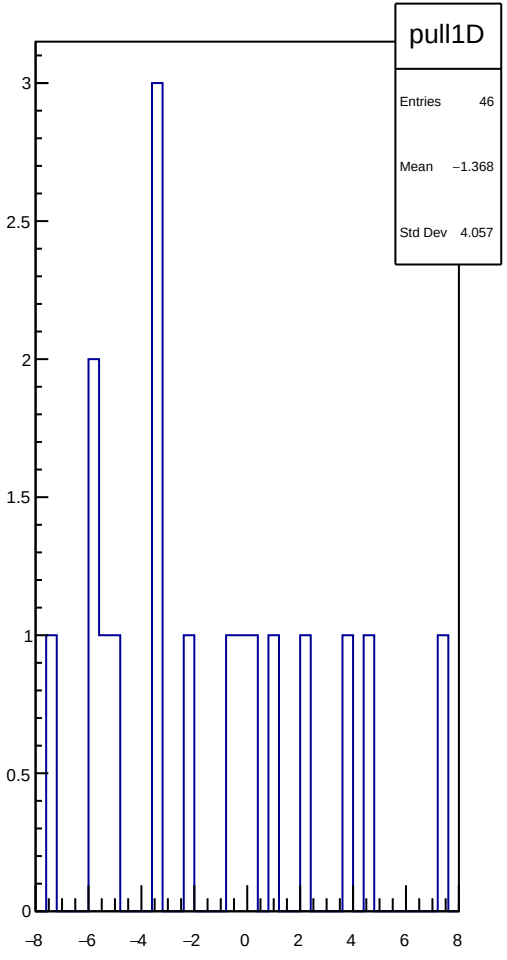

yield_bpm4aX_rms vs run
χ² / ndf 1.438e+05 / 45
p0 0.01184 ± 1.314e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

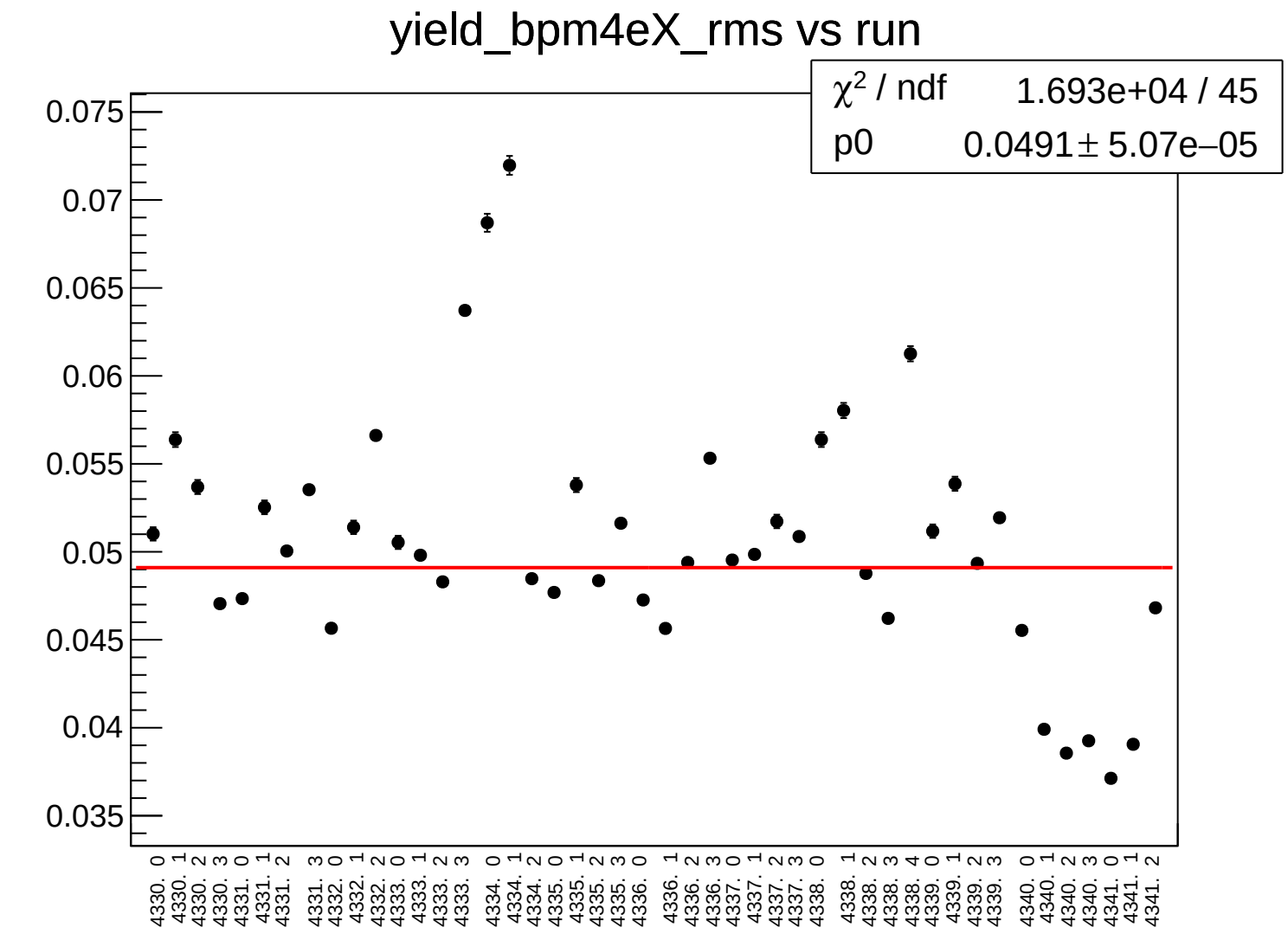

yield_bpm4aY_mean vs run
χ² / ndf 2.44e+04 / 45
p0 1.826 ± 5.579e−05
pull
Entries 46
Mean 56.58
Std Dev 55.78

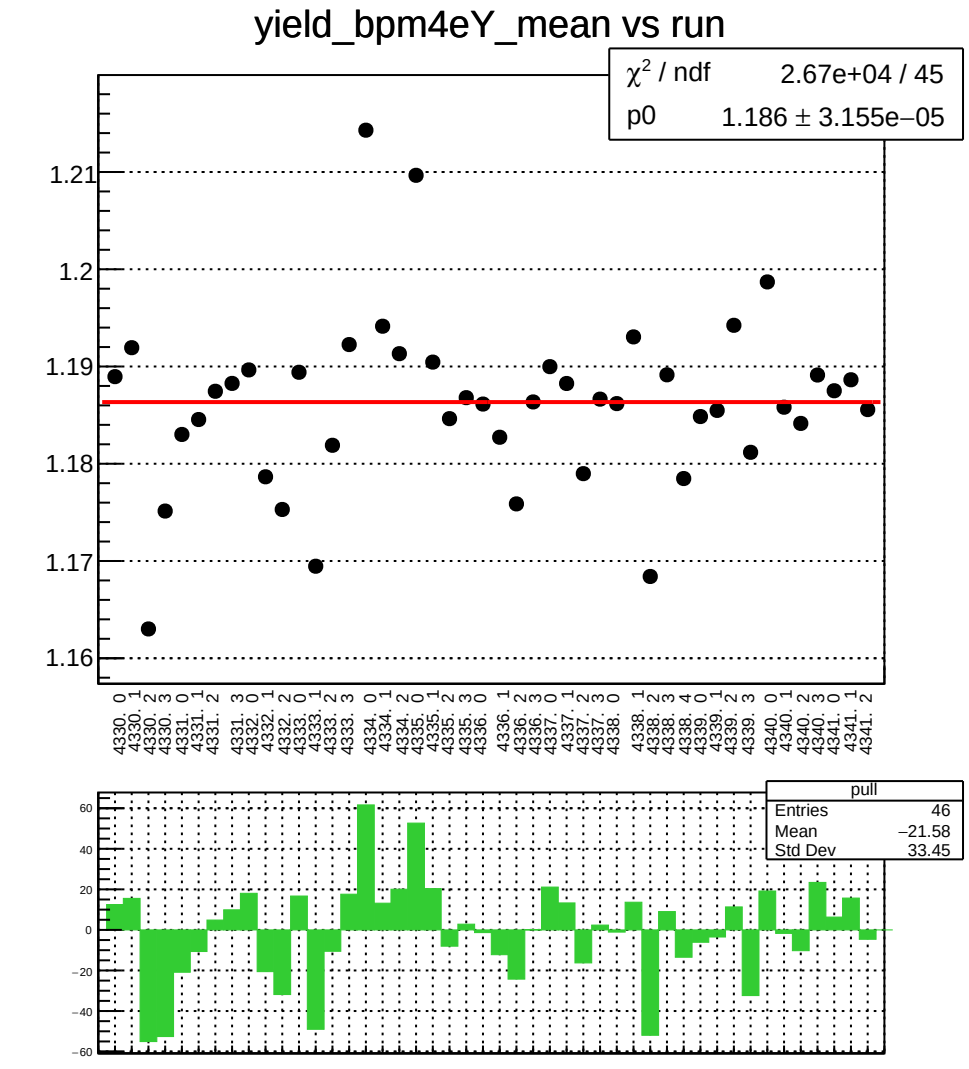

pull1D
Entries 46
Mean −1.315
Std Dev 4.077

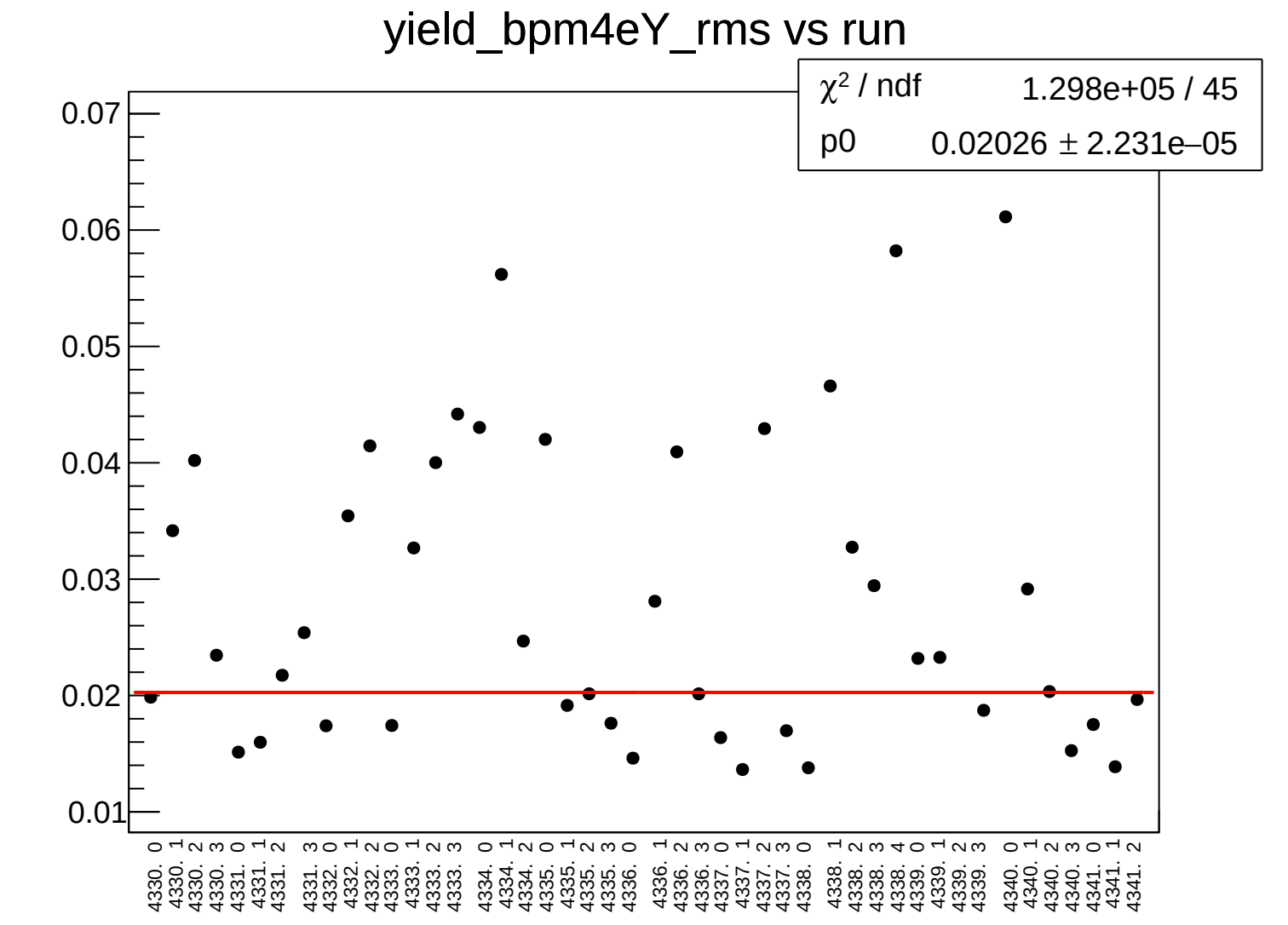

yield_bpm4aY_rms vs run
χ² / ndf 1.311e+05 / 45
p0 0.0358 ± 3.945e−05
0.12
0.1
0.08
0.06
0.04
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

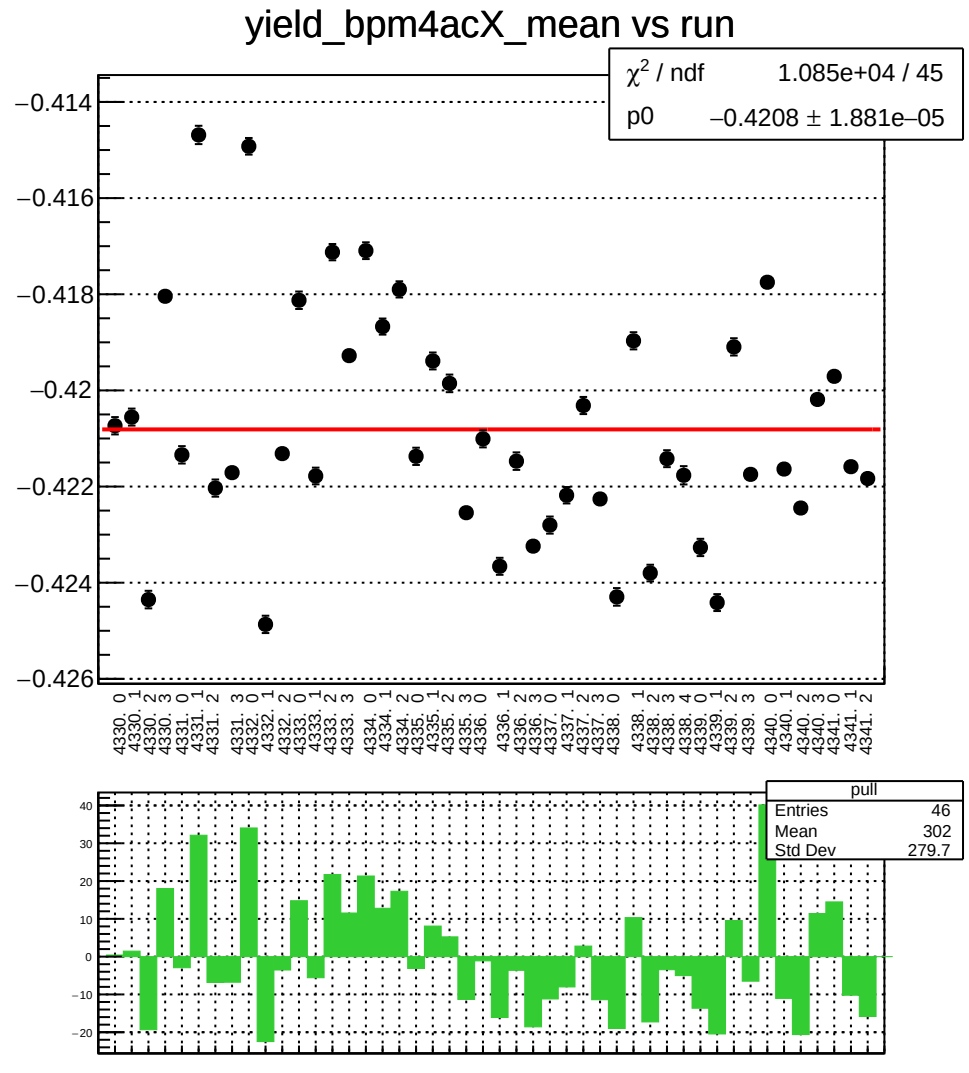

yield_bpm4eX_mean vs run
χ² / ndf 2.118e+04 / 45
p0 0.2718 ± 7.171e−05
0.33
0.32
0.31
0.3
0.29
0.28
0.27
0.26
0.25
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1200
Std Dev 1216
100
80
60
40
20
0
−20

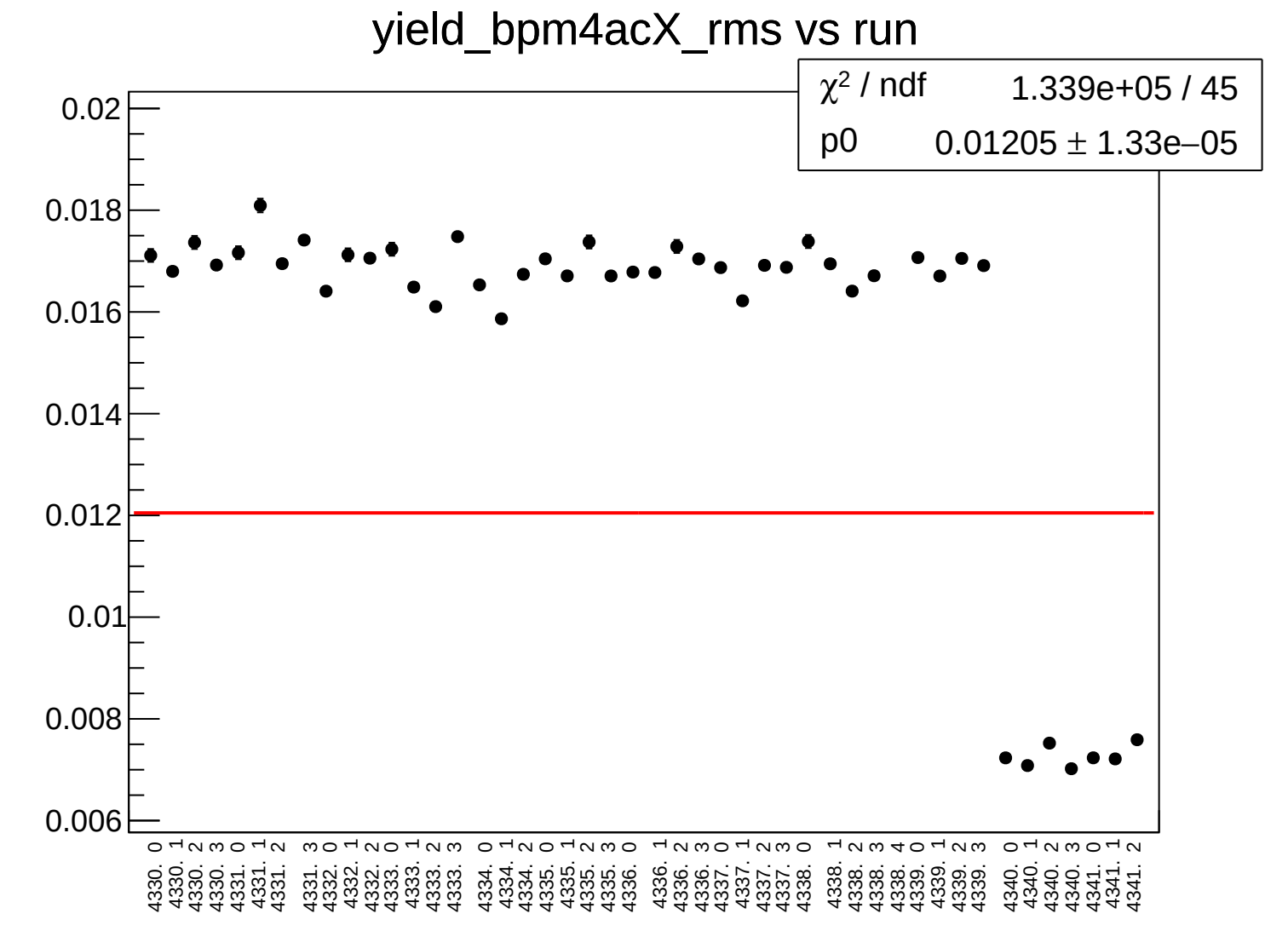

pull1D
Entries 46
Mean −1.368
Std Dev 4.057
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

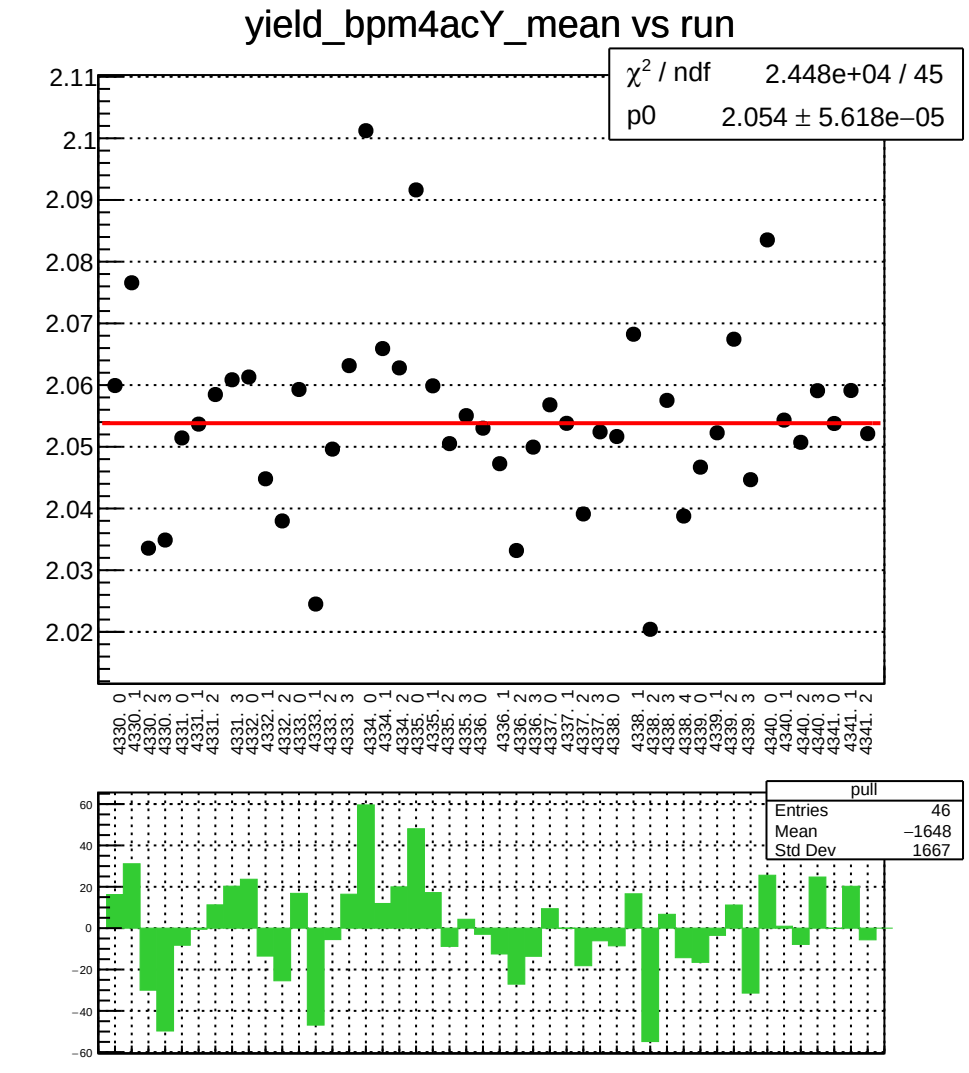

yield_bpm4eX_rms vs run
χ² / ndf 1.693e+04 / 45
p0 0.0491 ± 5.07e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

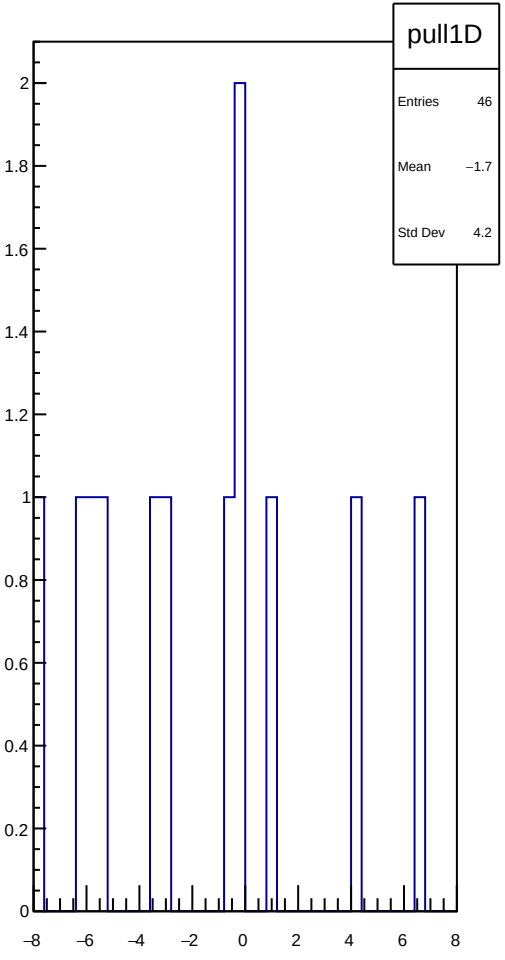

yield_bpm4eY_mean vs run
χ² / ndf 2.67e+04 / 45
p0 1.186 ± 3.155e−05
1.21
1.2
1.19
1.18
1.17
1.16
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −21.58
Std Dev 33.45
60
40
20
0
−20
−40
−60
pull1D
Entries 46
Mean −0.1655
Std Dev 3.73
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

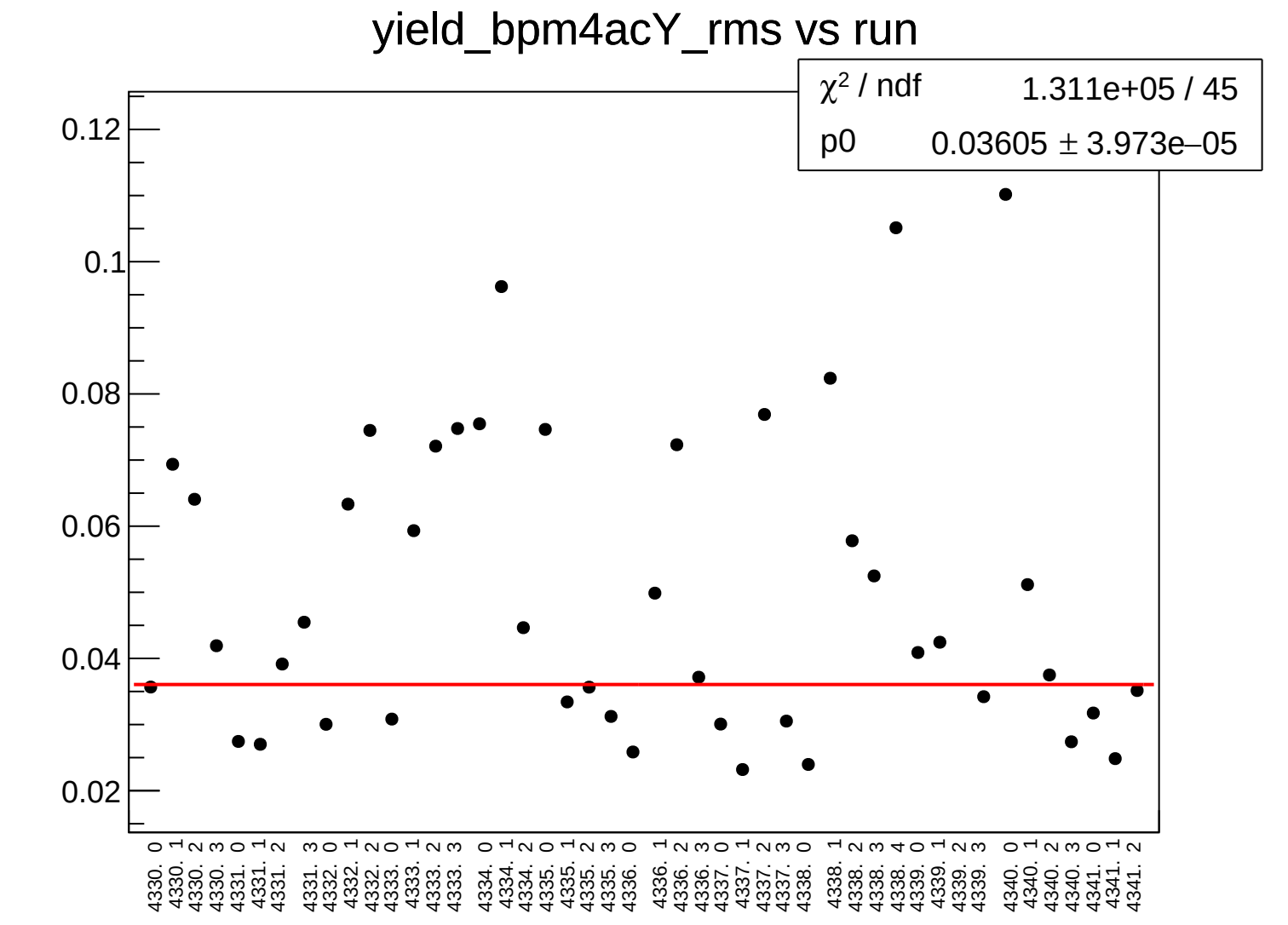

yield_bpm4eY_rms vs run
χ² / ndf 1.298e+05 / 45
p0 0.02026 ± 2.231e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

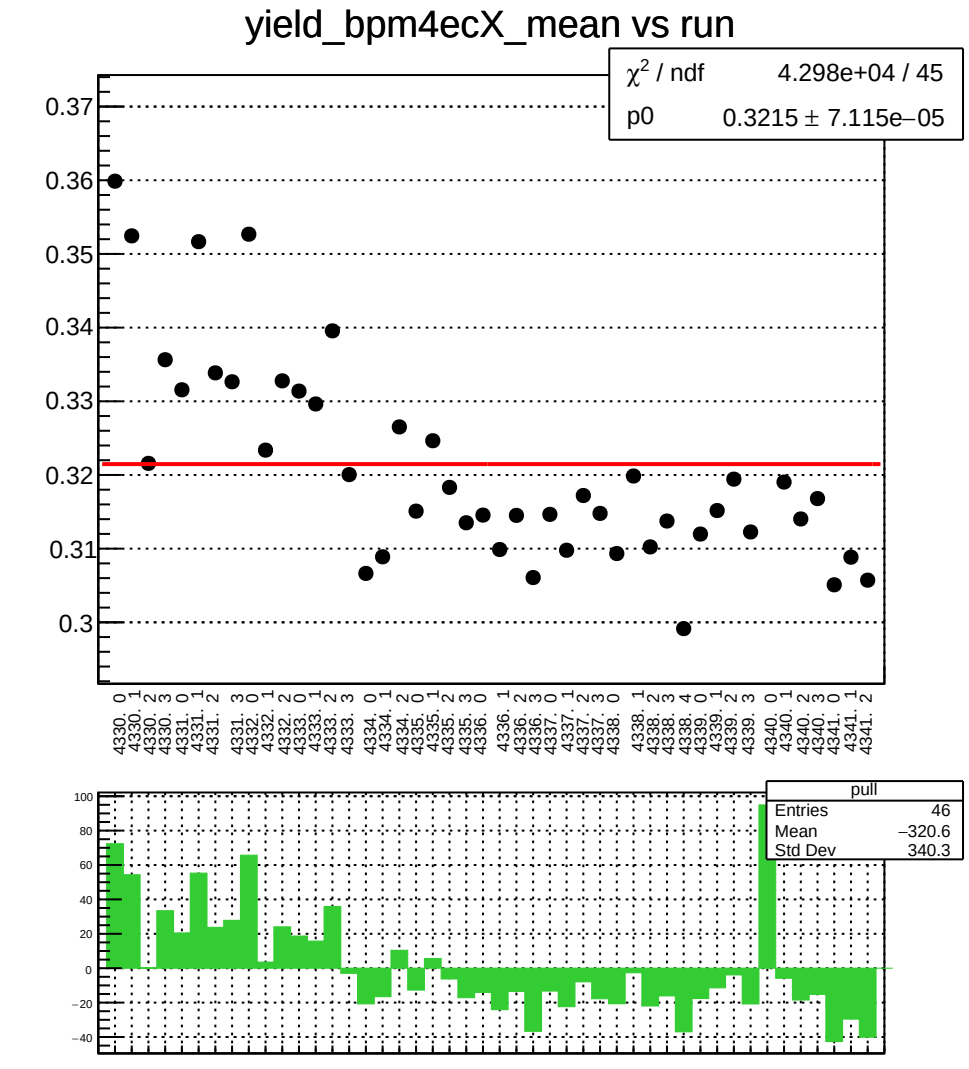

yield_bpm4acX_mean vs run
χ² / ndf 1.085e+04 / 45
p0 −0.4208 ± 1.881e−05
−0.414
−0.416
−0.418
−0.42
−0.422
−0.424
−0.426
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 302
Std Dev 279.7
40
30
20
10
0
−10
−20
pull1D
Entries 46
Mean −2.571
Std Dev 3.522
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

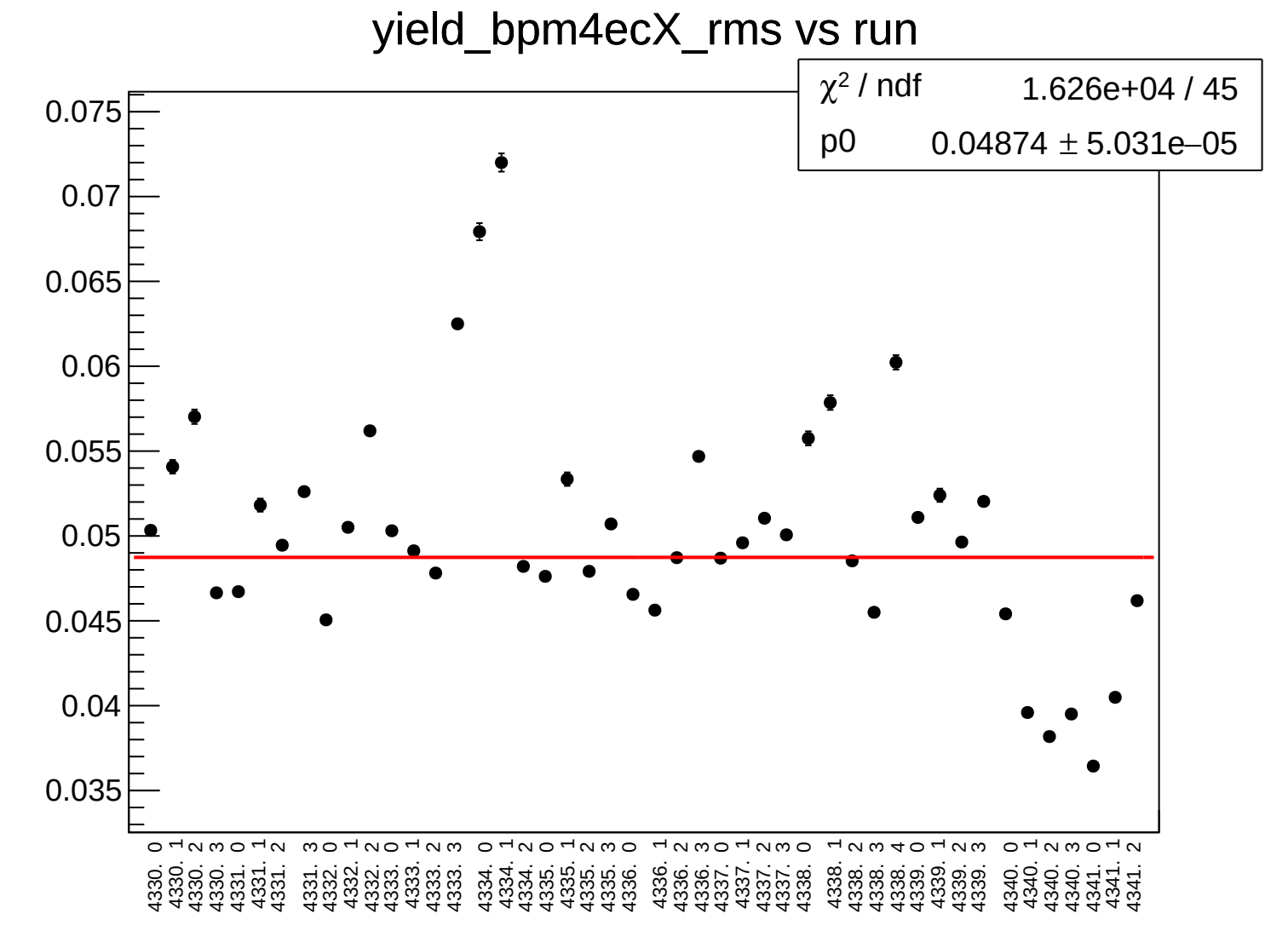

yield_bpm4acX_rms vs run
χ² / ndf 1.339e+05 / 45
p0 0.01205 ± 1.33e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

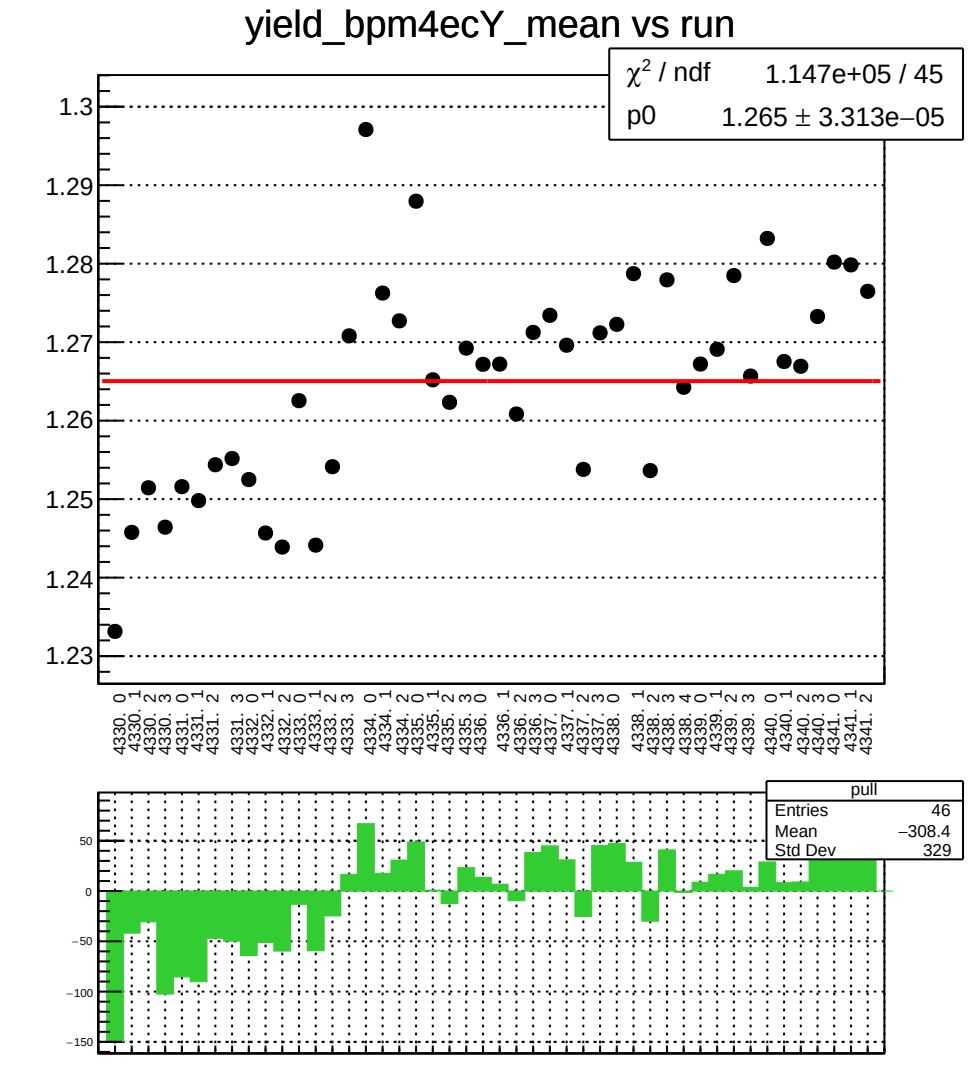

yield_bpm4acY_mean vs run
χ² / ndf 2.448e+04 / 45
p0 2.054 ± 5.618e−05
pull
Entries 46
Mean −1648
Std Dev 1667

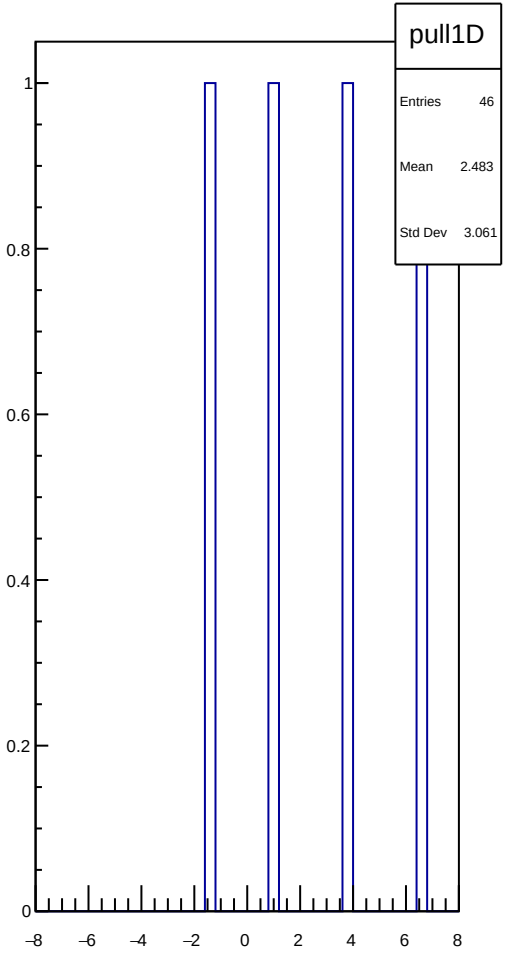

pull1D
Entries 46
Mean −1.7
Std Dev 4.2

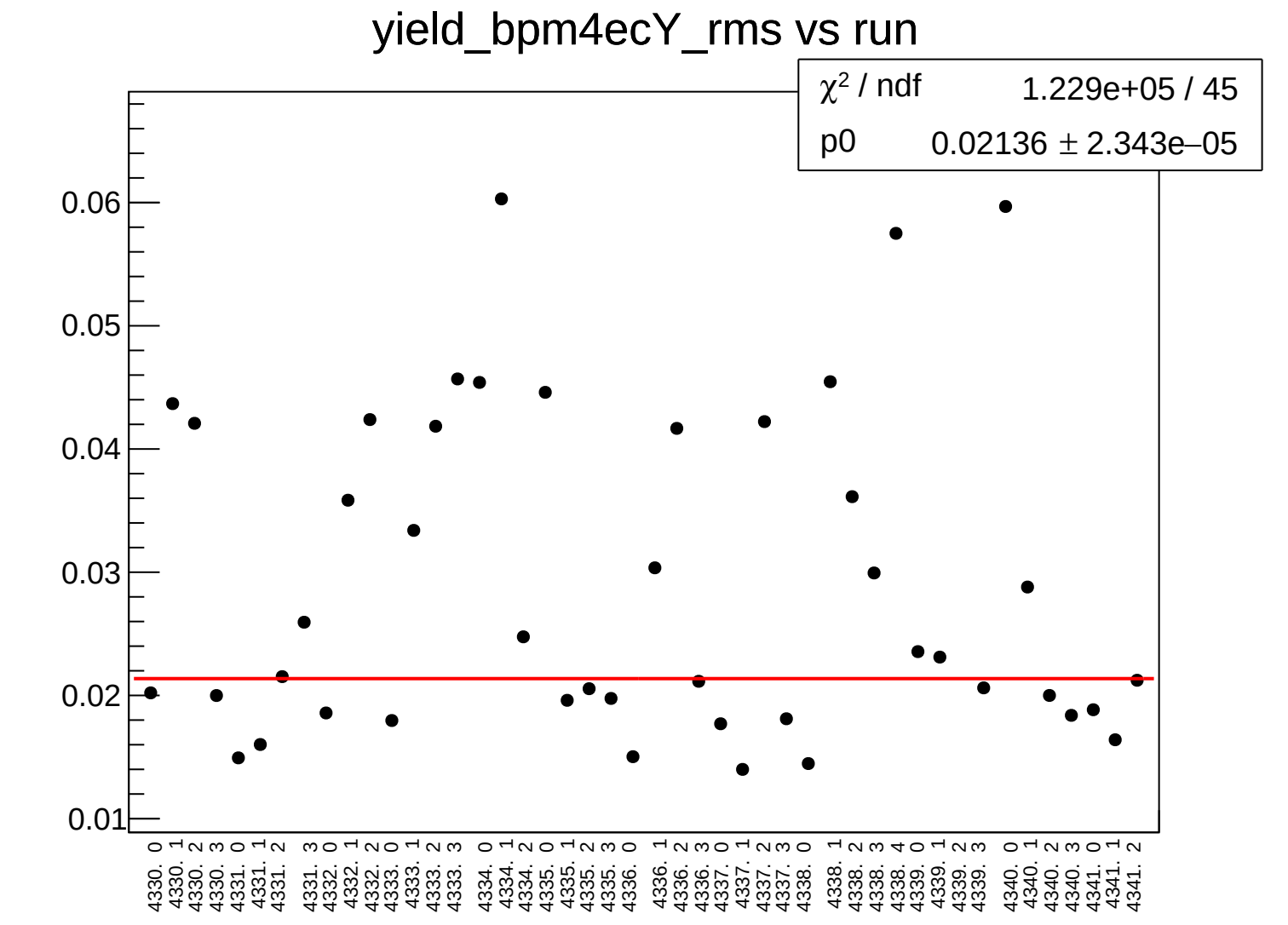

yield_bpm4acY_rms vs run
χ² / ndf 1.311e+05 / 45
p0 0.03605 ± 3.973e–05
0.12
0.1
0.08
0.06
0.04
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

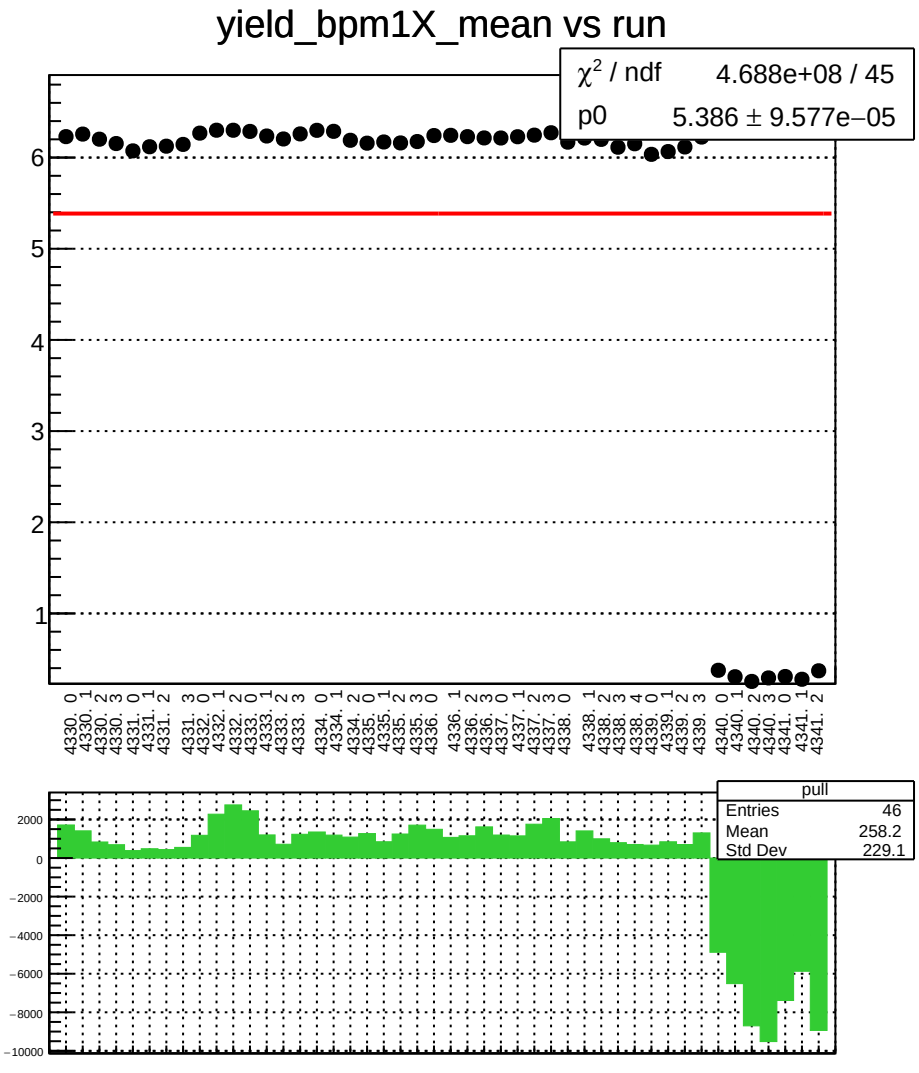

yield_bpm4ecX_mean vs run
χ² / ndf 4.298e+04 / 45
p0 0.3215 ± 7.115e−05
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −320.6
Std Dev 340.3
100
80
60
40
20
0
−20
−40
pull1D
Entries 46
Mean −2.242
Std Dev 4.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

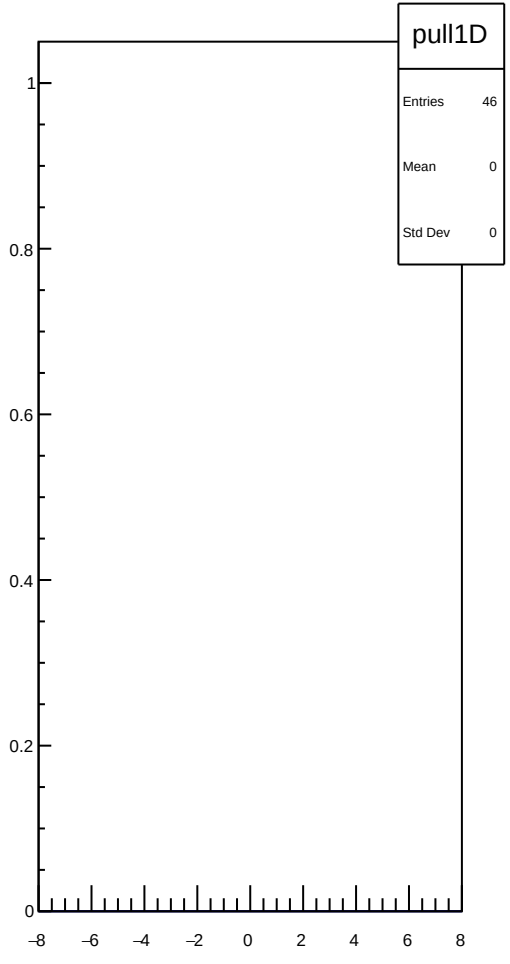

yield_bpm4ecX_rms vs run
χ² / ndf 1.626e+04 / 45
p0 0.04874 ± 5.031e–05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

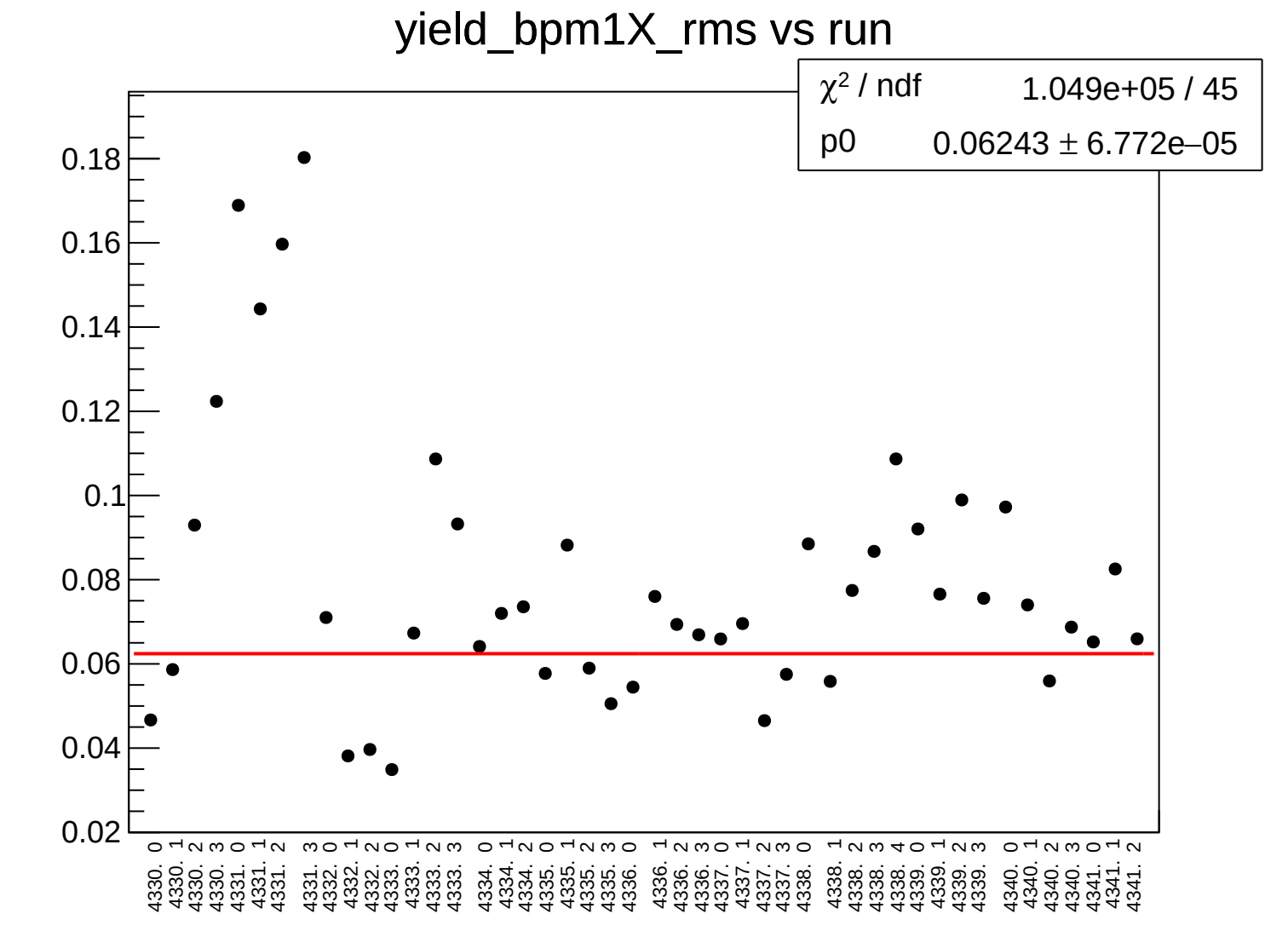

yield_bpm4ecY_mean vs run
χ² / ndf 1.147e+05 / 45
p0 1.265 ± 3.313e−05
pull
Entries 46
Mean −308.4
Std Dev 329

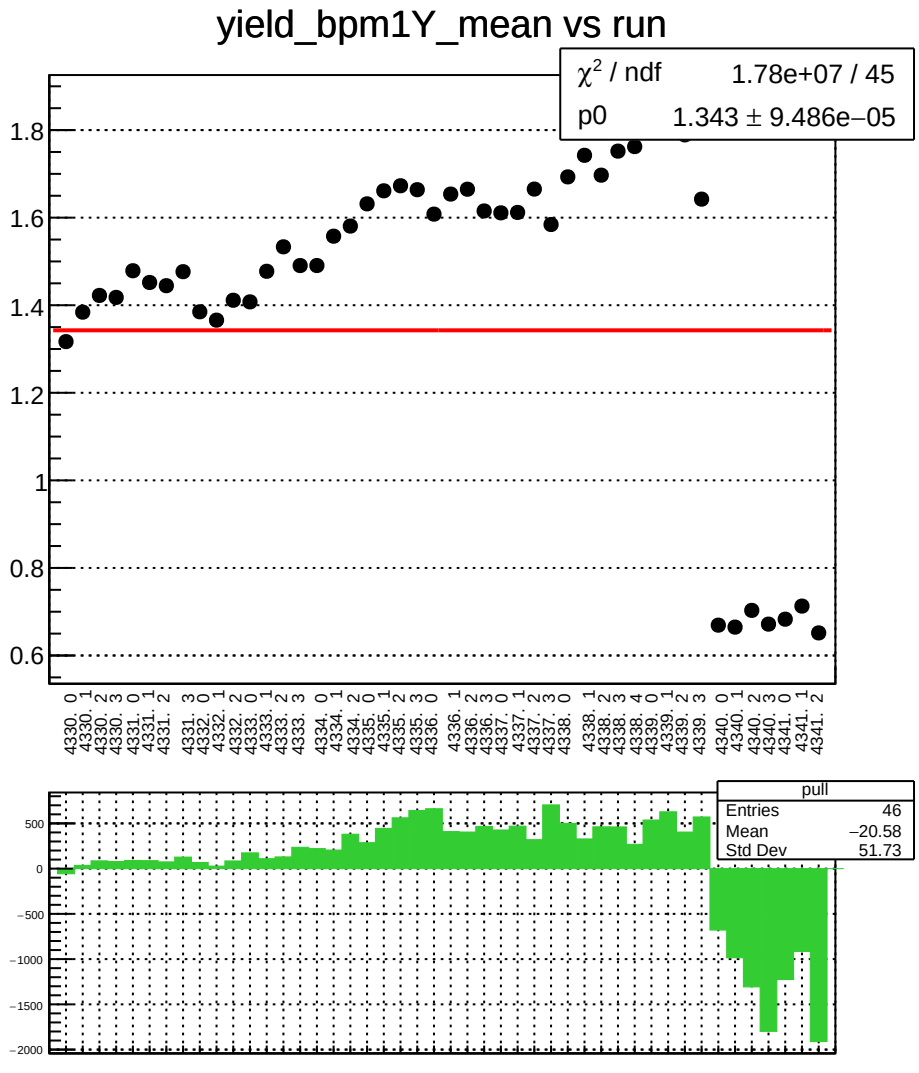

pull1D
Entries 46
Mean 2.483
Std Dev 3.061

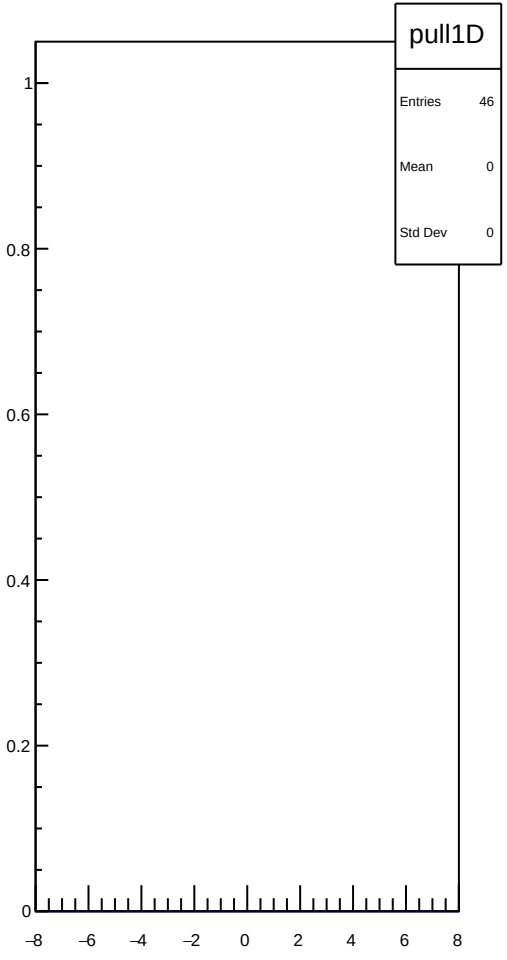

yield_bpm4ecY_rms vs run
χ² / ndf 1.229e+05 / 45
p0 0.02136 ± 2.343e–05
0.06
0.05
0.04
0.03
0.02
0.01
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

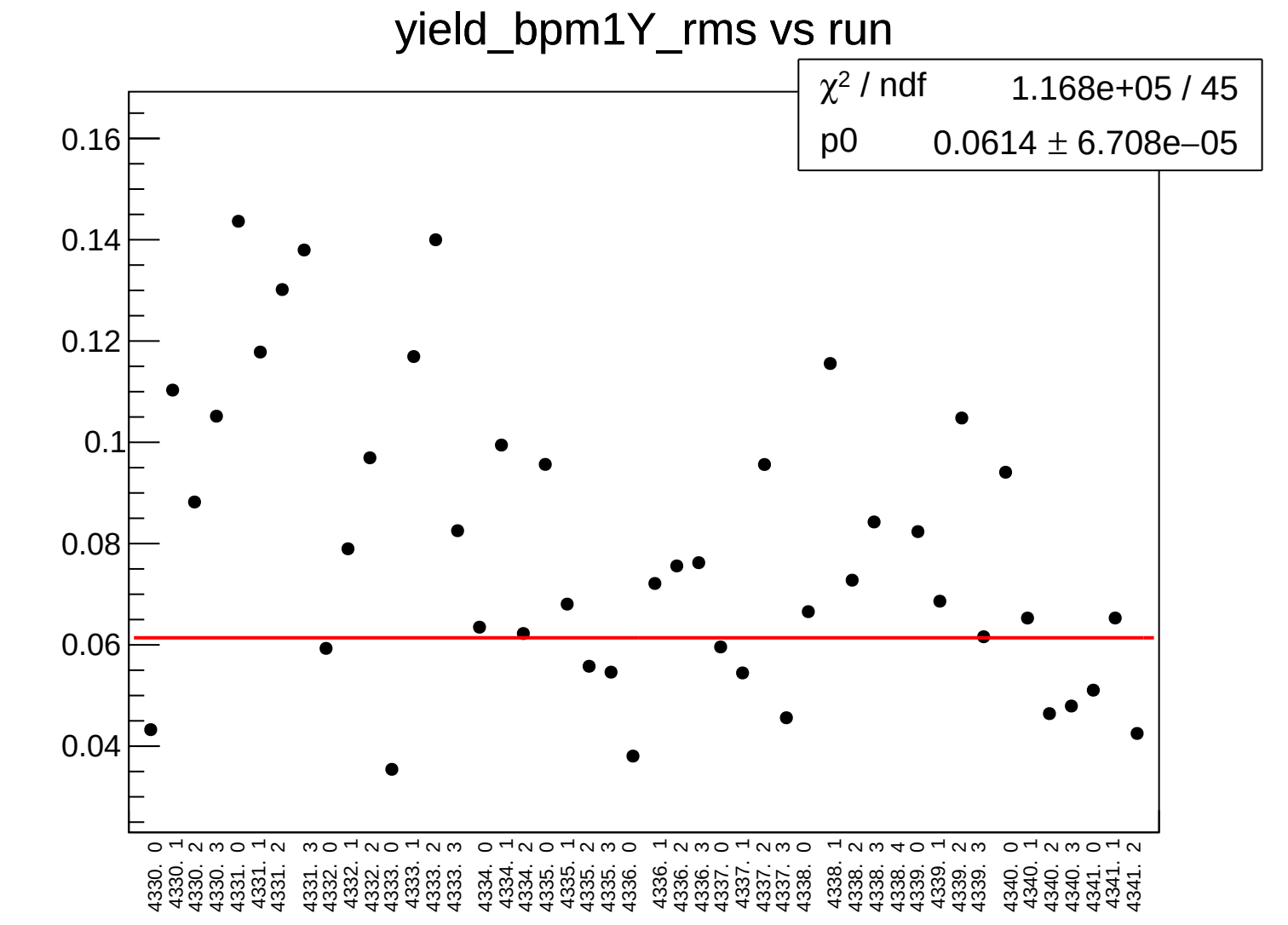

yield_bpm1X_mean vs run
χ² / ndf 4.688e+08 / 45
p0 5.386 ± 9.577e−05
pull
Entries 46
Mean 258.2
Std Dev 229.1

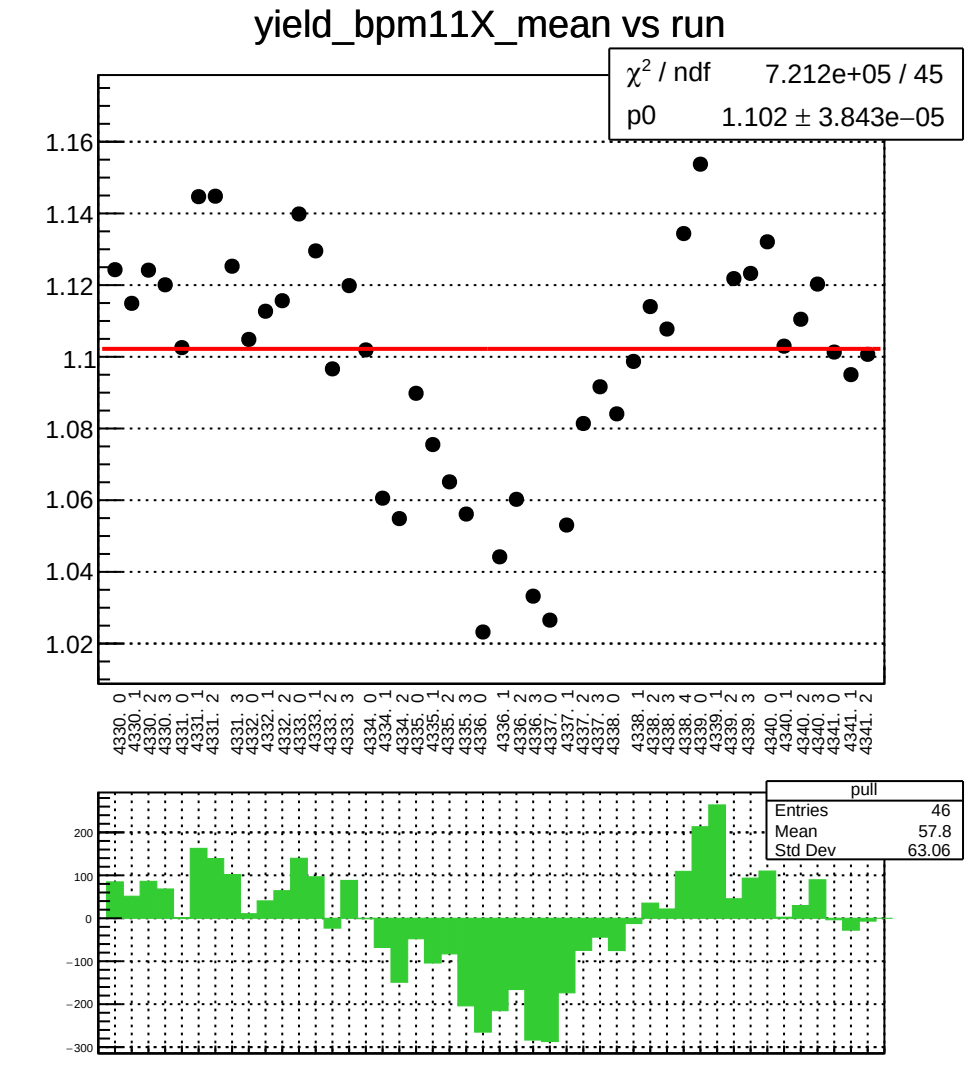

pull1D
Entries 46
Mean 0
Std Dev 0

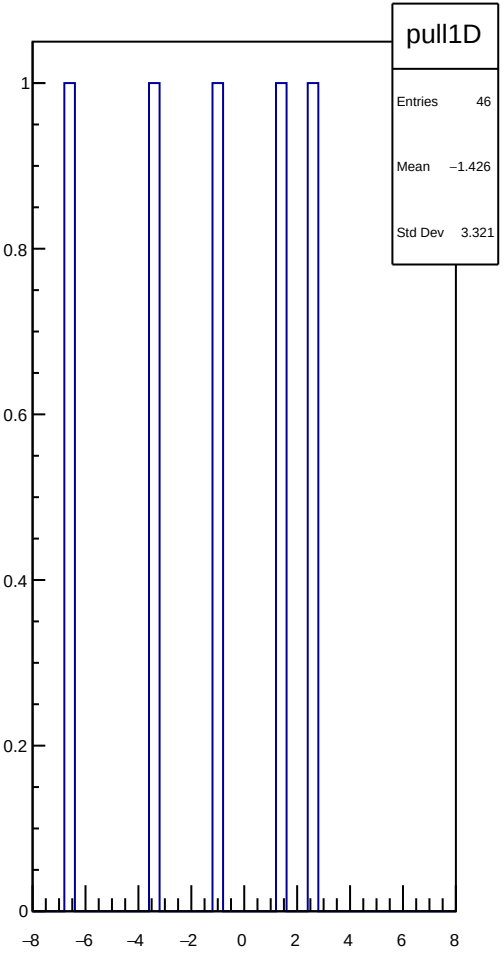

yield_bpm1X_rms vs run
χ² / ndf 1.049e+05 / 45
p0 0.06243 ± 6.772e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

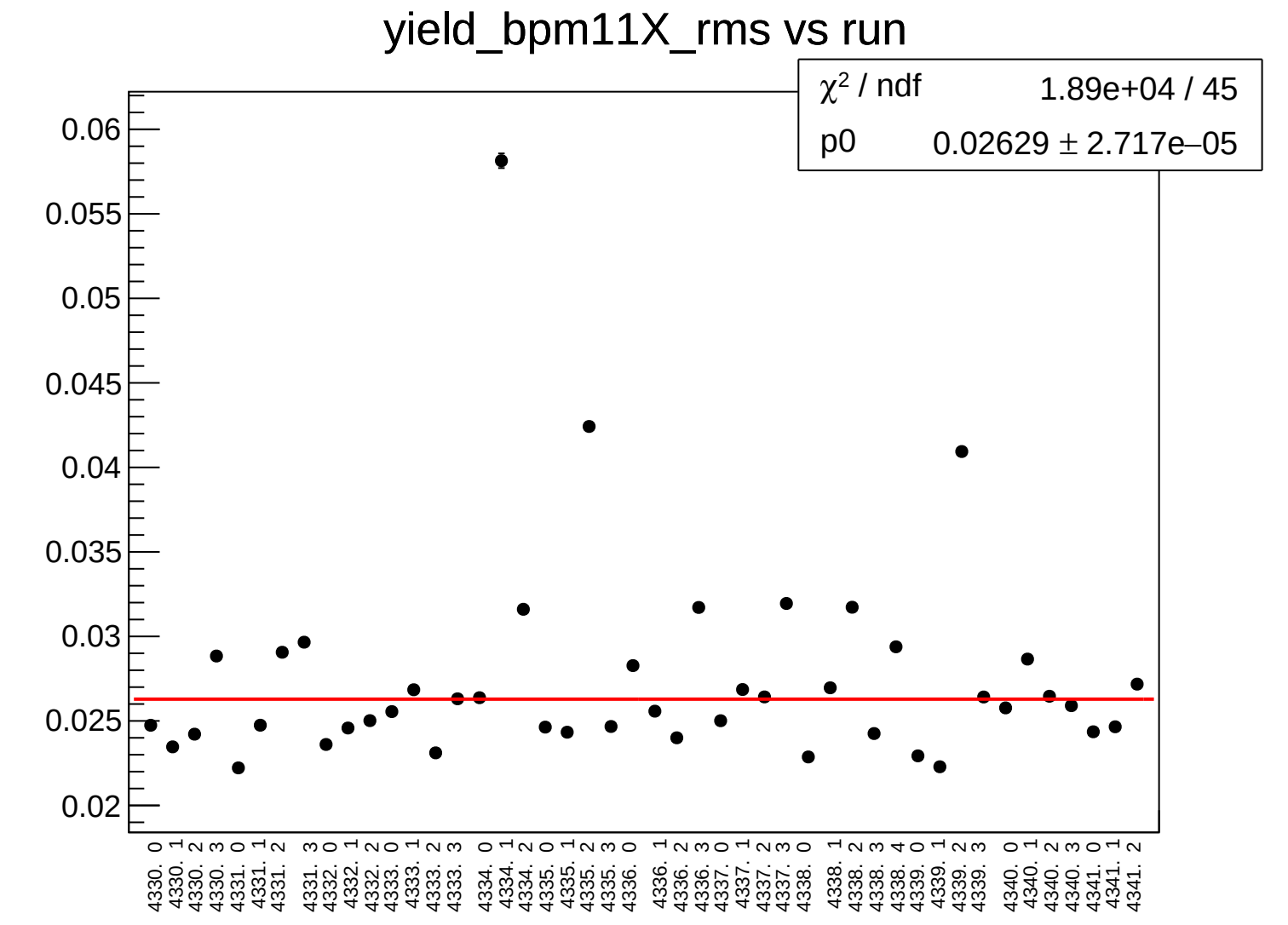

yield_bpm1Y_mean vs run
χ² / ndf 1.78e+07 / 45
p0 1.343 ± 9.486e−05
pull
Entries 46
Mean −20.58
Std Dev 51.73

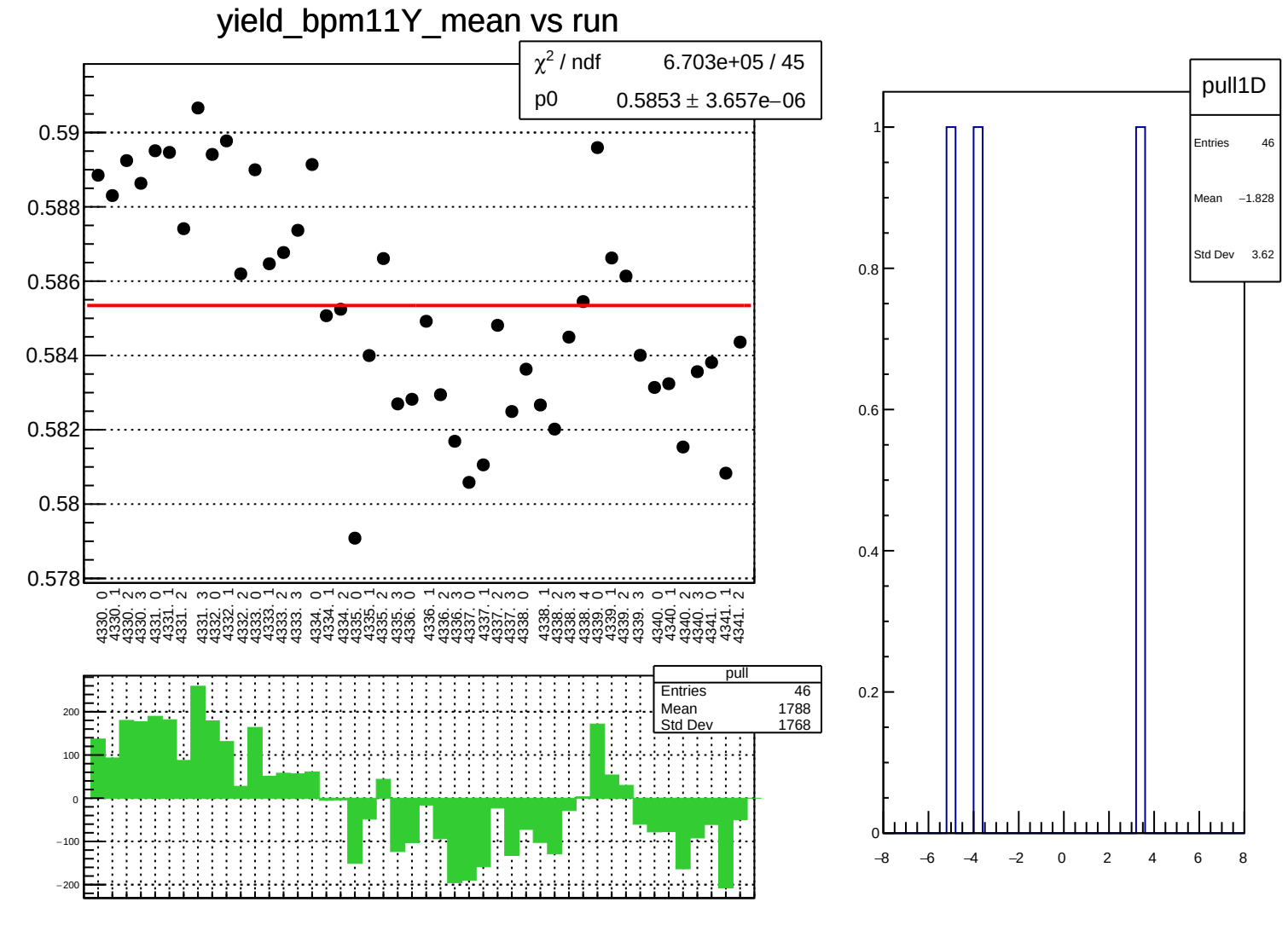

pull1D
Entries 46
Mean 0
Std Dev 0

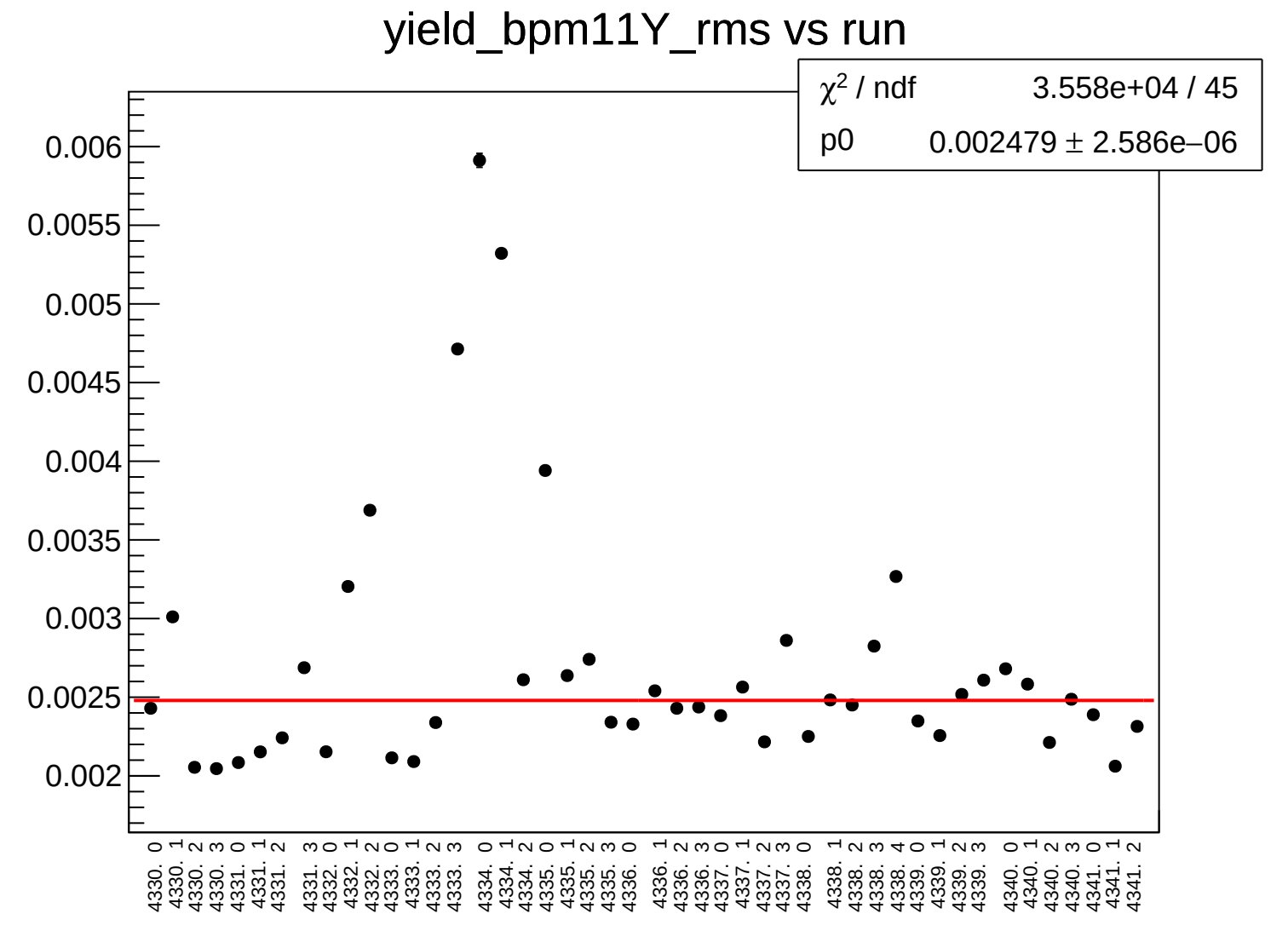

yield_bpm1Y_rms vs run
χ² / ndf 1.168e+05 / 45
p0 0.0614 ± 6.708e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

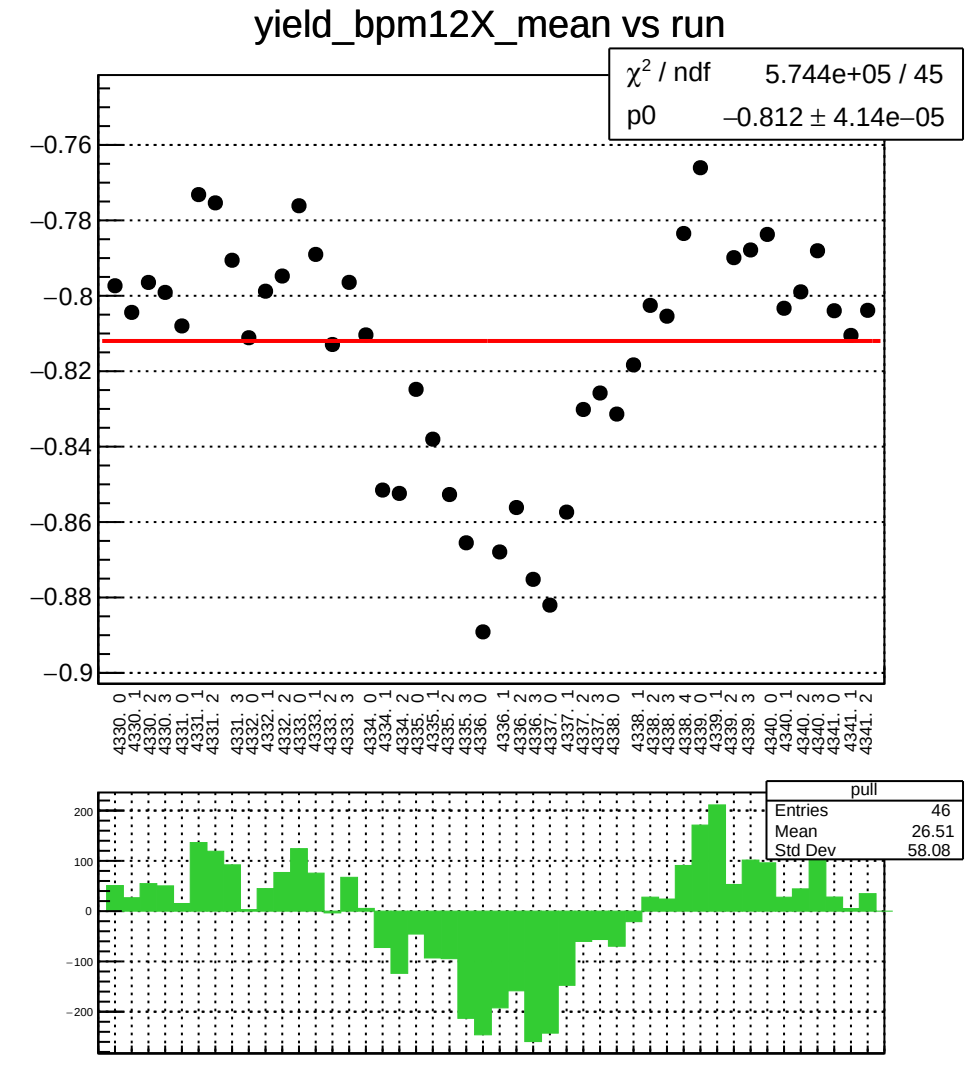

yield_bpm11X_mean vs run
χ² / ndf 7.212e+05 / 45
p0 1.102 ± 3.843e−05
1.16
1.14
1.12
1.1
1.08
1.06
1.04
1.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 57.8
Std Dev 63.06
200
100
0
−100
−200
−300

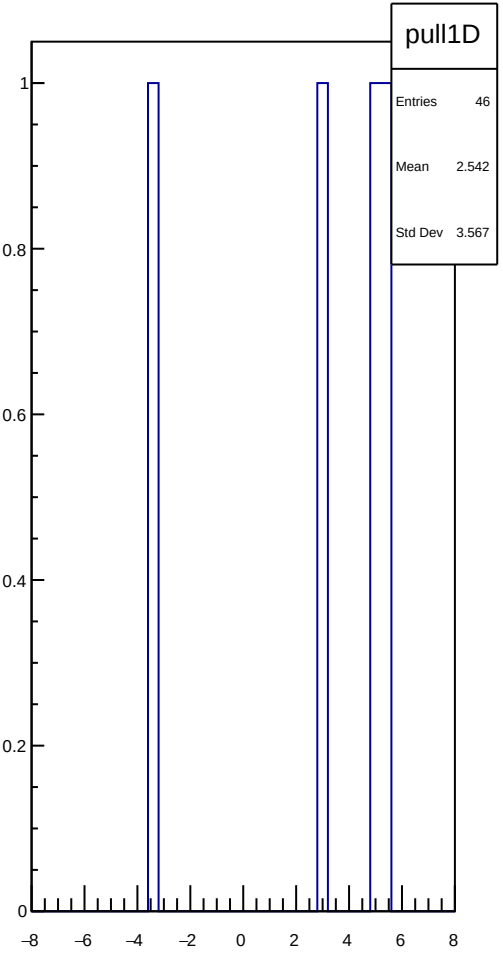

pull1D
Entries 46
Mean −1.426
Std Dev 3.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

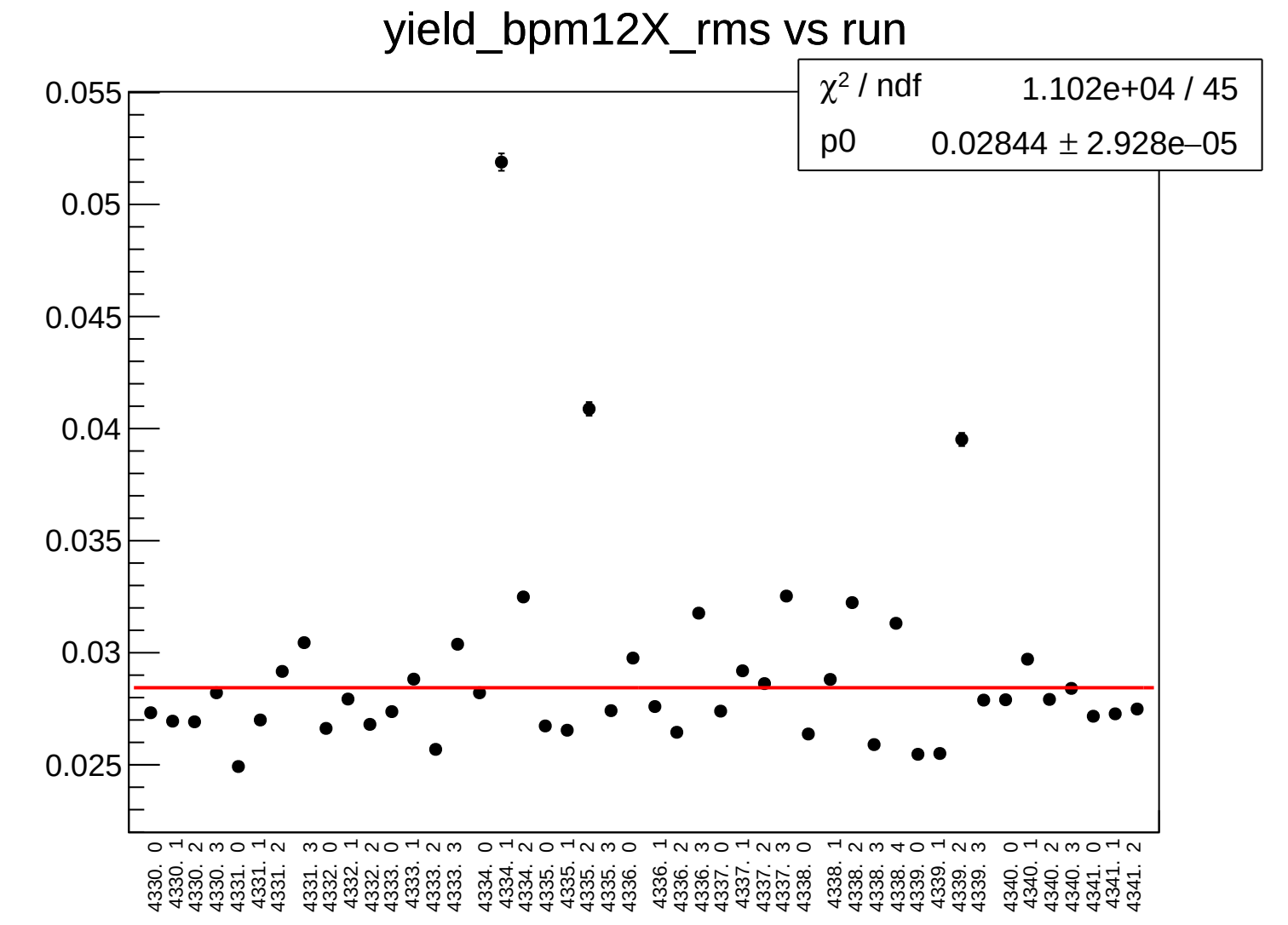

yield_bpm11X_rms vs run
χ² / ndf 1.89e+04 / 45
p0 0.02629 ± 2.717e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

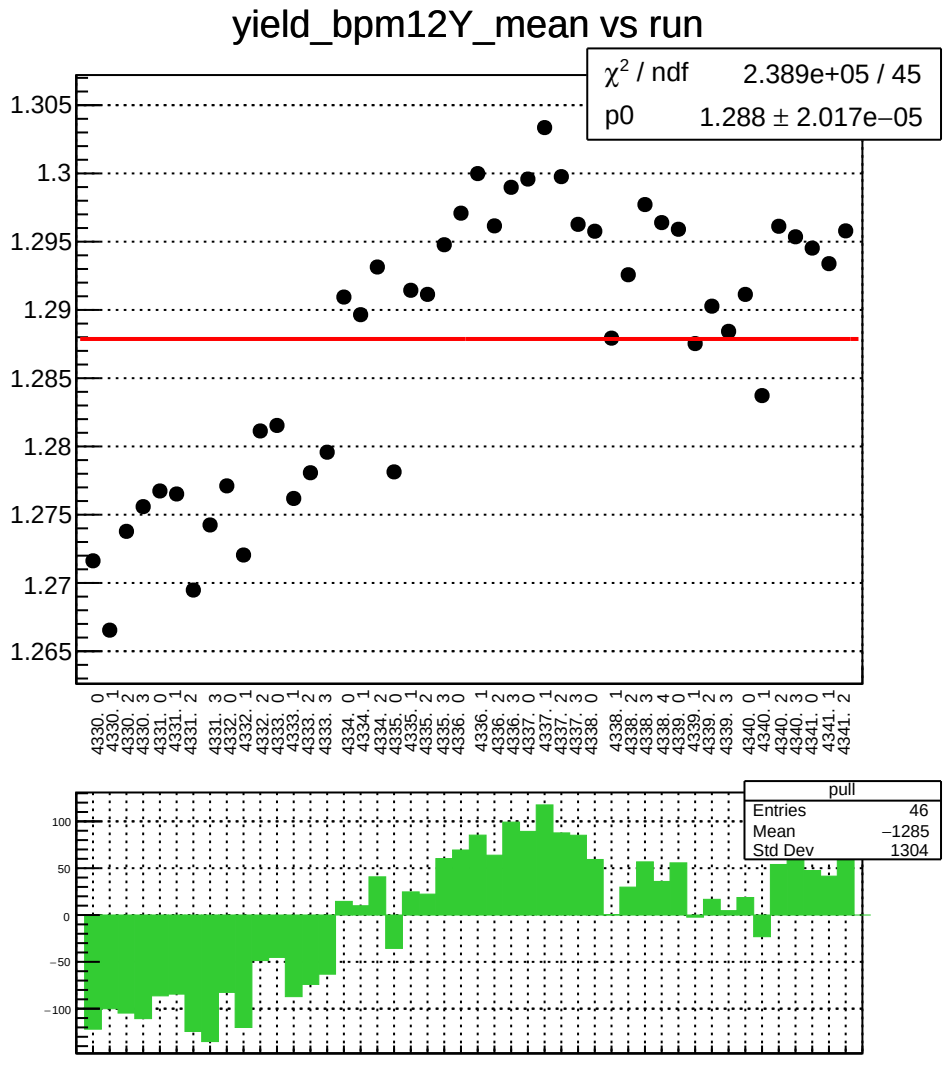

yield_bpm11Y_mean vs run
χ² / ndf 6.703e+05 / 45
p0 0.5853 ± 3.657e−06
0.59
0.588
0.586
0.584
0.582
0.58
0.578
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 1788
Std Dev 1768
200
100
0
−100
−200
pull1D
Entries 46
Mean −1.828
Std Dev 3.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

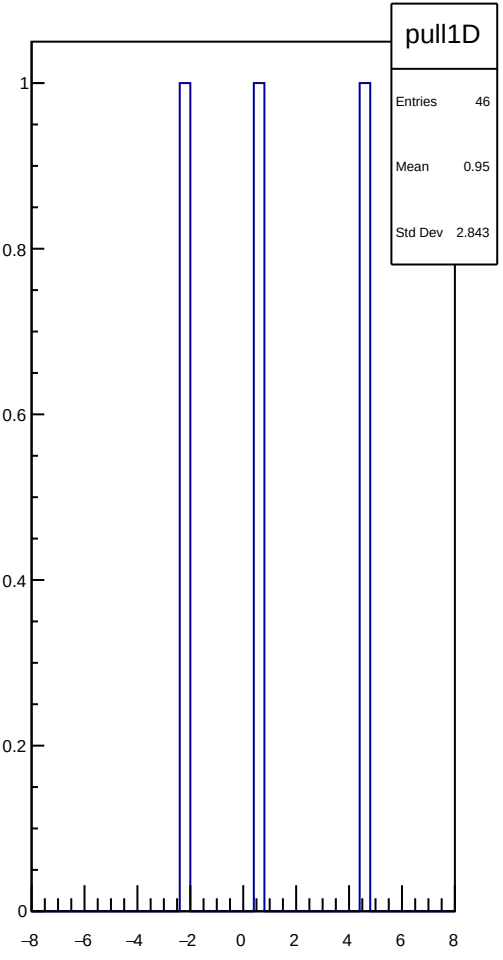

yield_bpm11Y_rms vs run
χ² / ndf 3.558e+04 / 45
p0 0.002479 ± 2.586e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

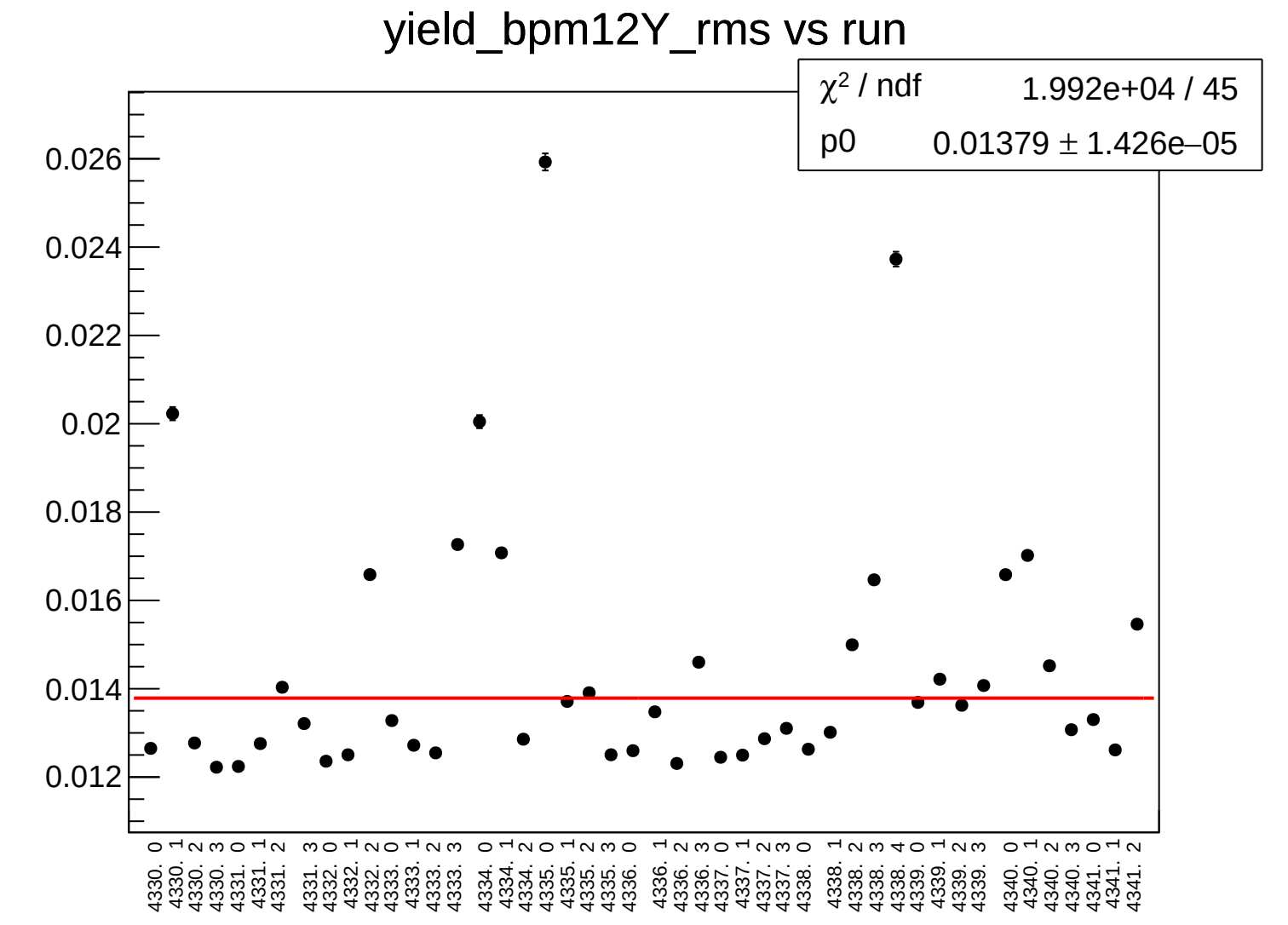

yield_bpm12X_mean vs run
χ² / ndf 5.744e+05 / 45
p0 −0.812 ± 4.14e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 26.51
Std Dev 58.08
200
100
0
−100
−200

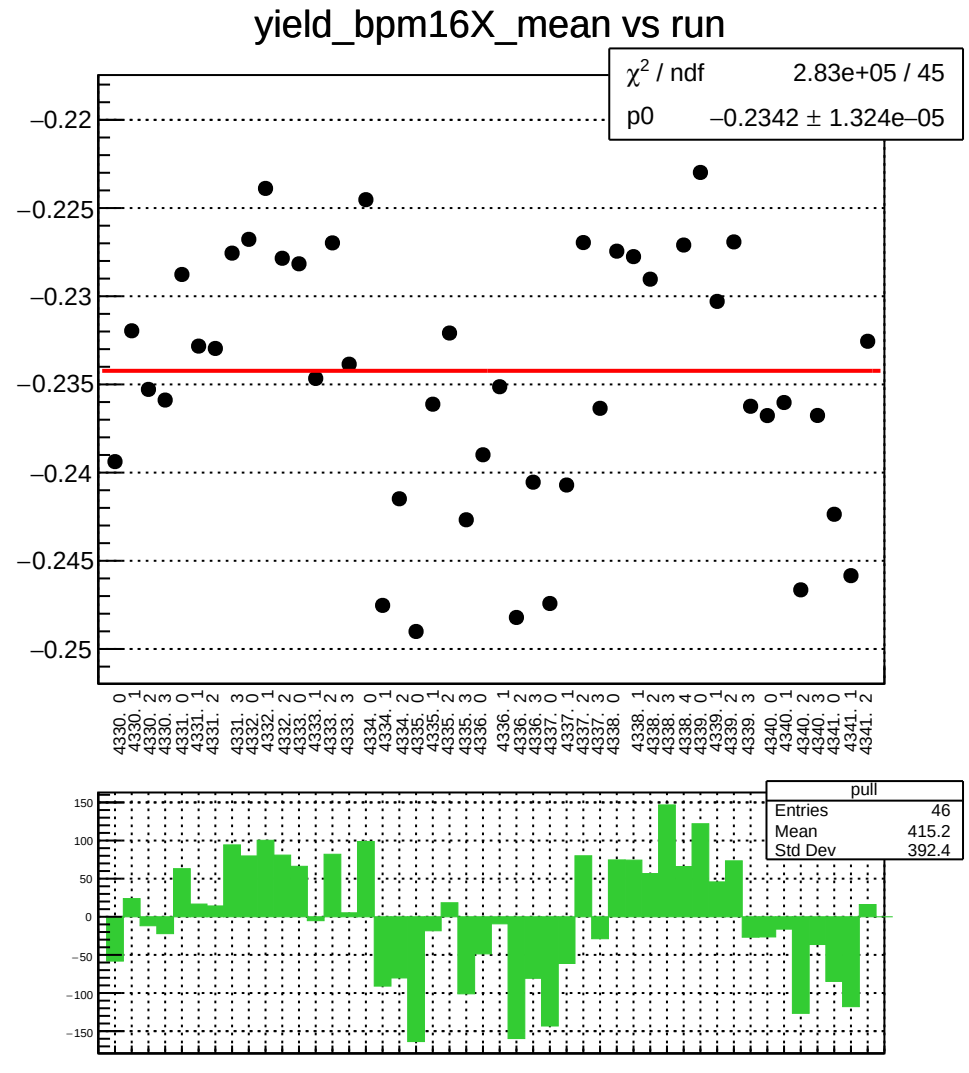

pull1D
Entries 46
Mean 2.542
Std Dev 3.567
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

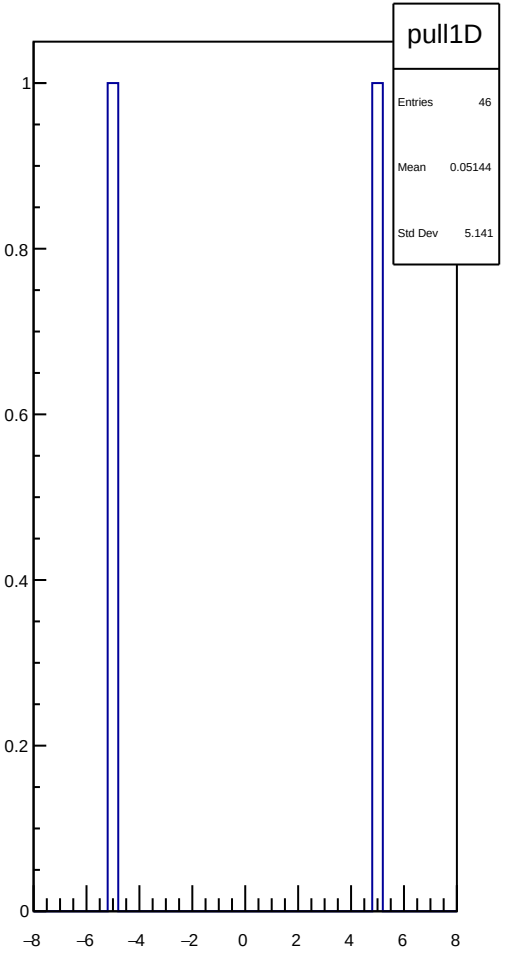

yield_bpm12X_rms vs run
χ² / ndf 1.102e+04 / 45
p0 0.02844 ± 2.928e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

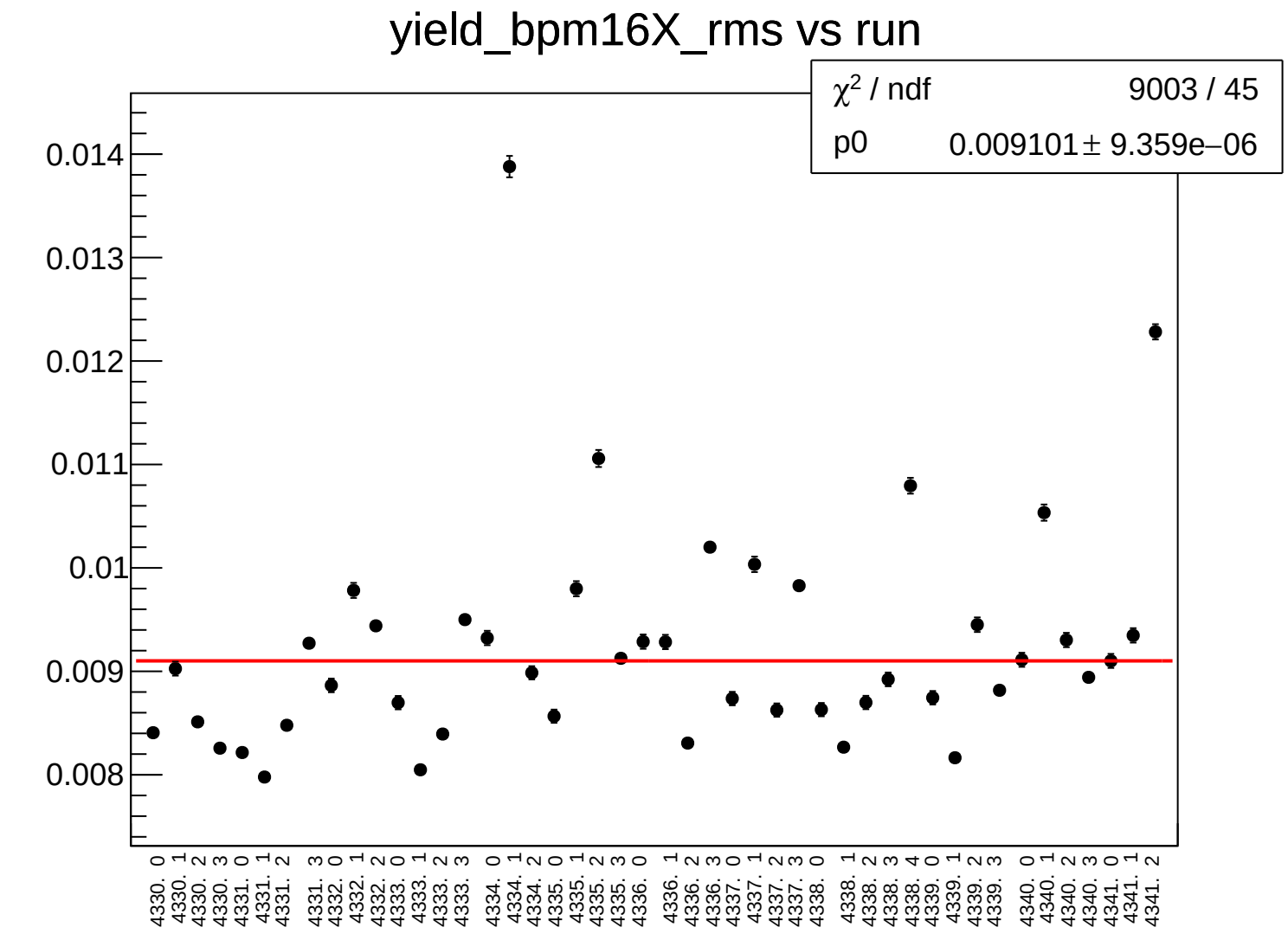

yield_bpm12Y_mean vs run
χ² / ndf 2.389e+05 / 45
p0 1.288 ± 2.017e−05
1.305
1.3
1.295
1.29
1.285
1.28
1.275
1.27
1.265
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1285
Std Dev 1304
100
50
0
−50
−100

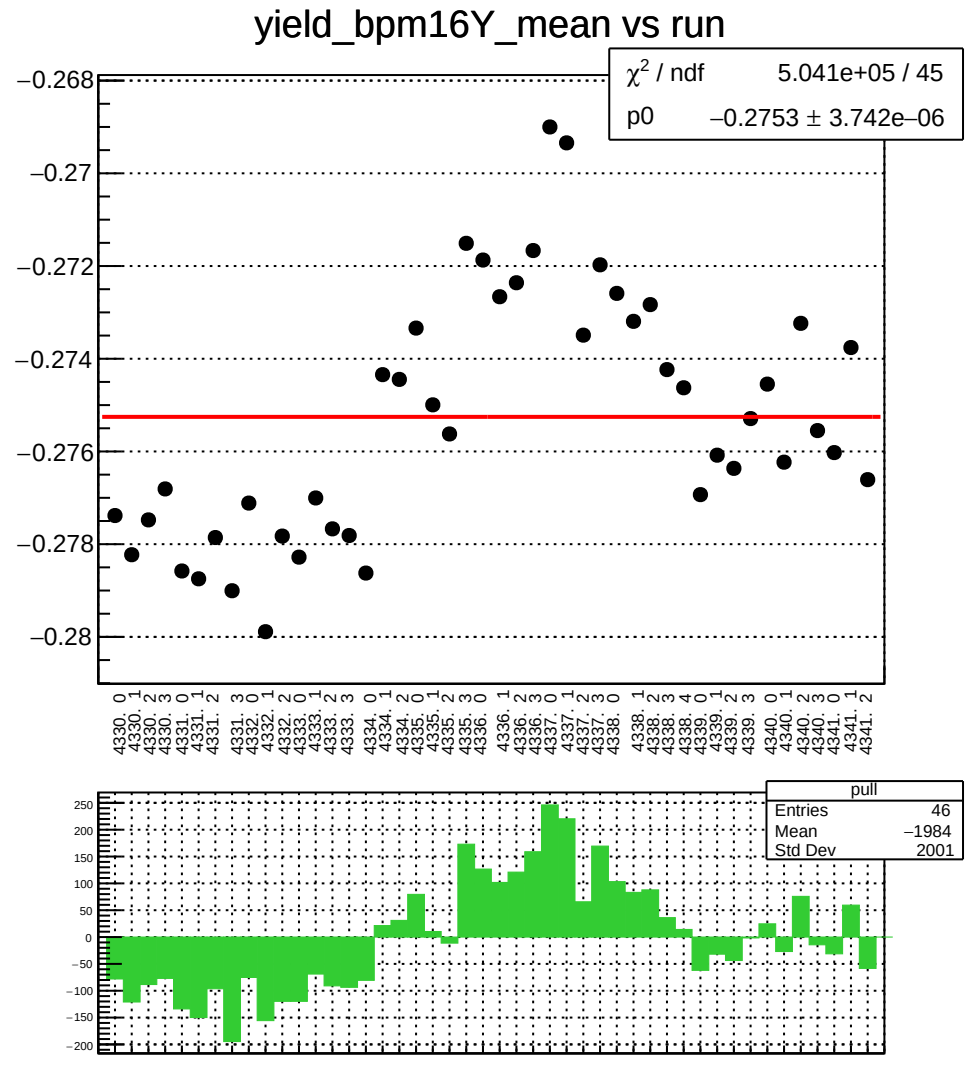

pull1D
Entries 46
Mean 0.95
Std Dev 2.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

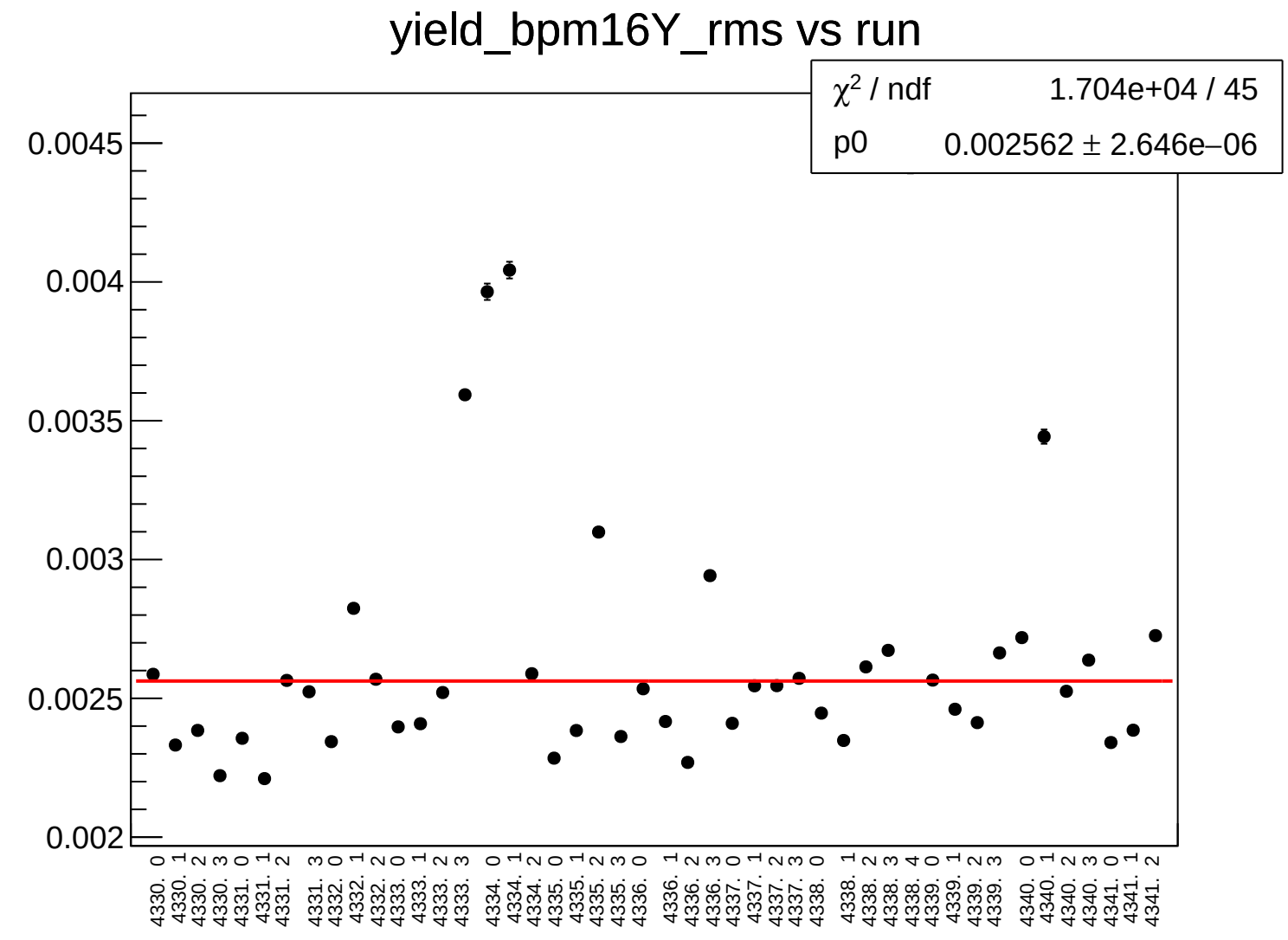

yield_bpm12Y_rms vs run
χ² / ndf 1.992e+04 / 45
p0 0.01379 ± 1.426e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

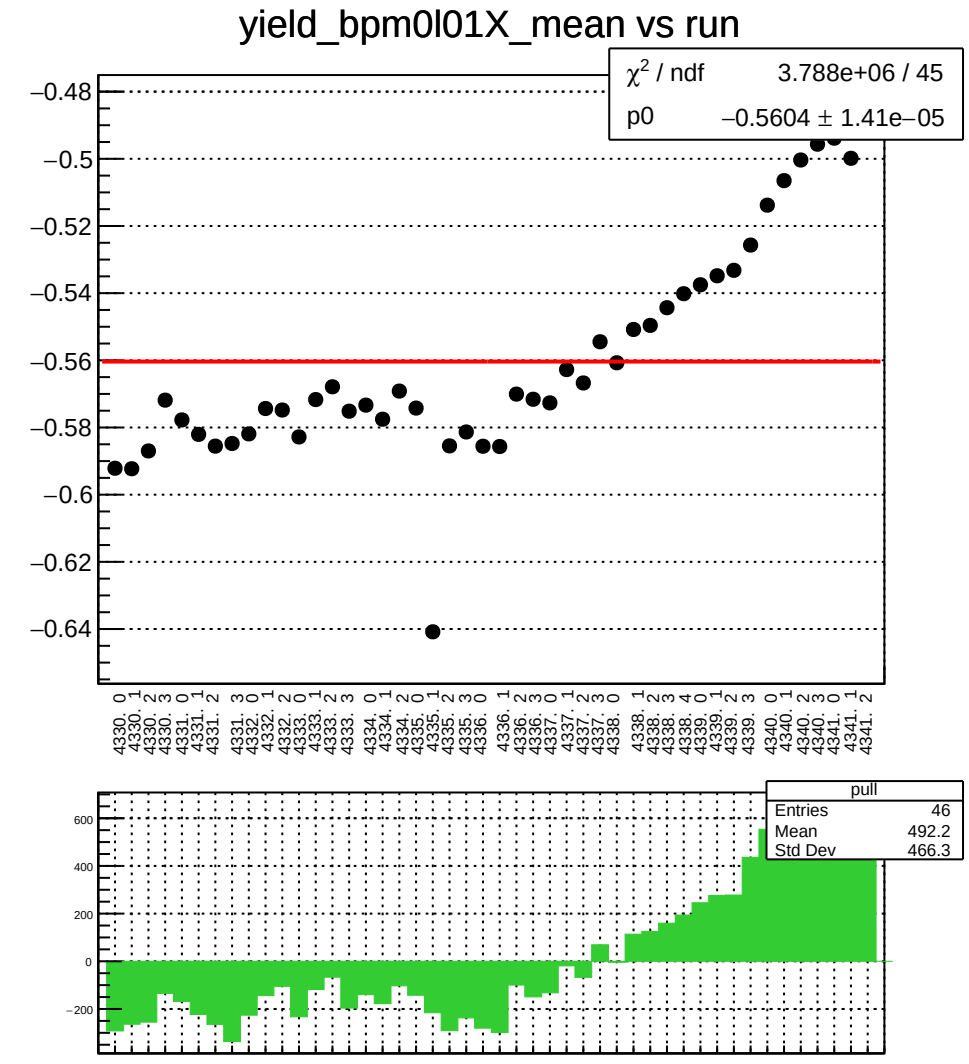

yield_bpm16X_mean vs run
χ² / ndf 2.83e+05 / 45
p0 −0.2342 ± 1.324e−05
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 415.2
Std Dev 392.4
150
100
50
0
−50
−100
−150

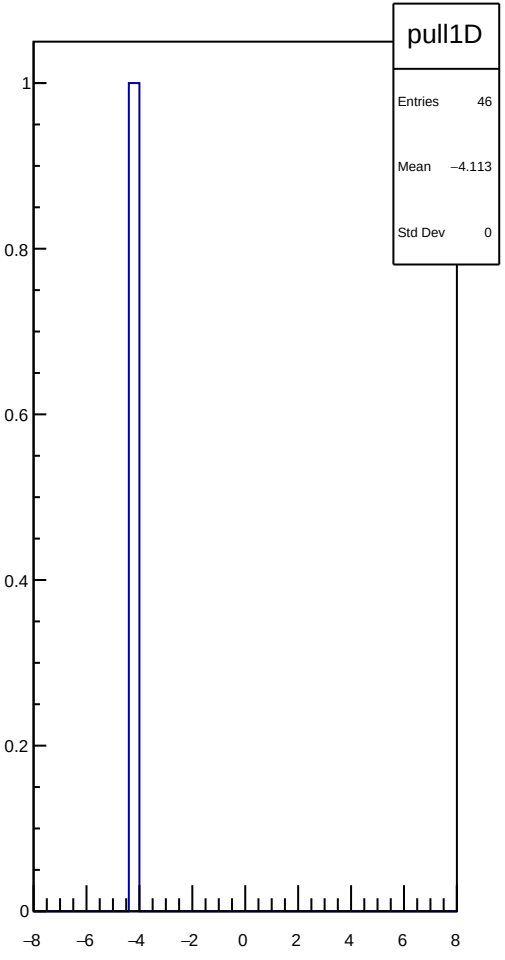

pull1D
Entries 46
Mean 0.05144
Std Dev 5.141
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

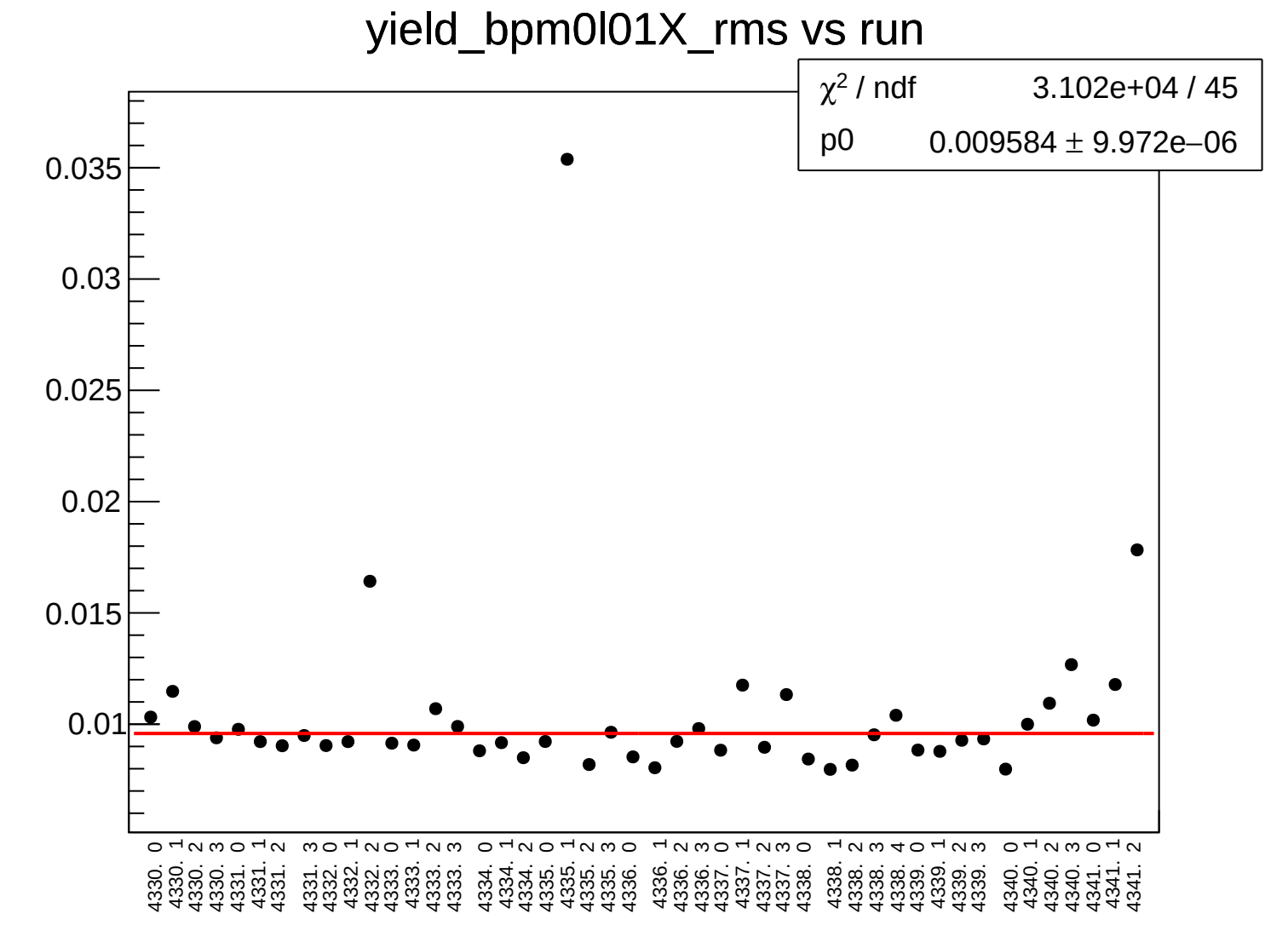

yield_bpm16X_rms vs run
χ² / ndf 9003 / 45
p0 0.009101 ± 9.359e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

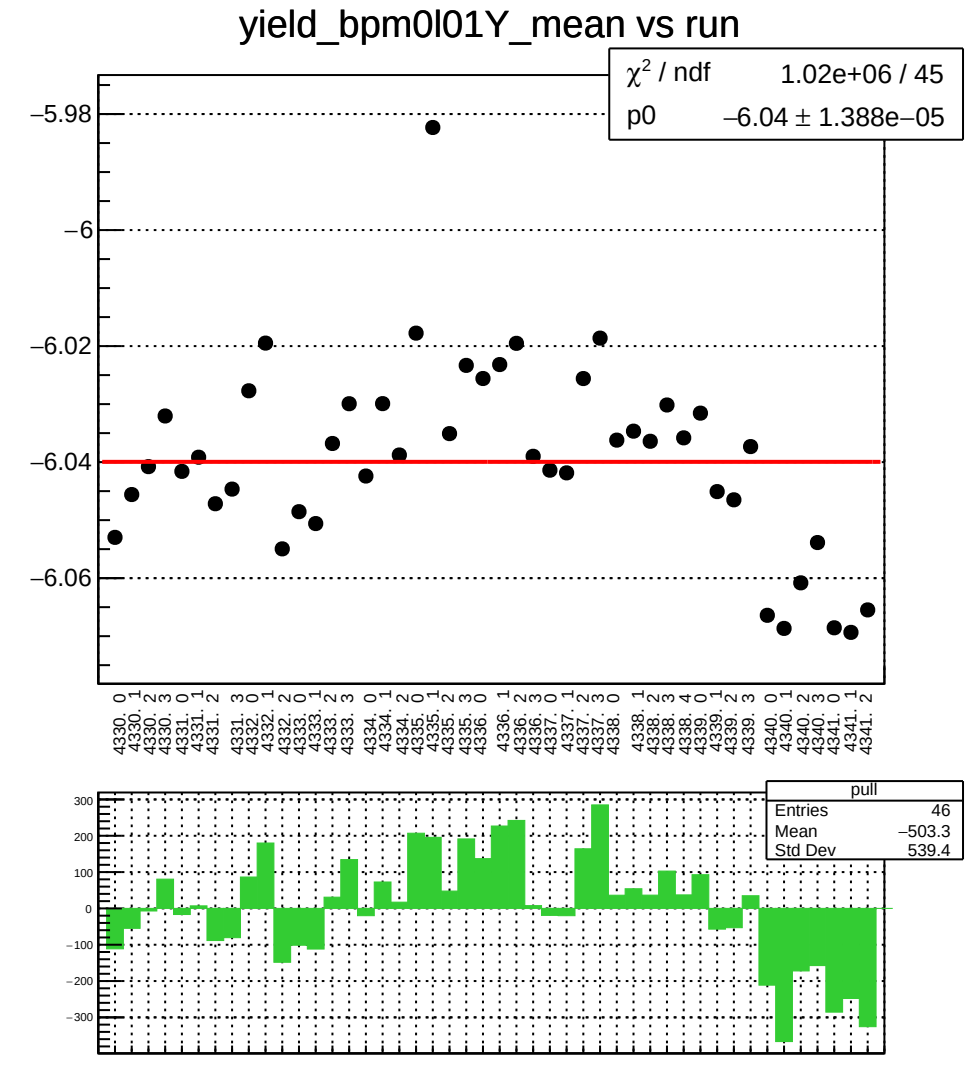

yield_bpm16Y_mean vs run
χ² / ndf 5.041e+05 / 45
p0 −0.2753 ± 3.742e−06
−0.268
−0.27
−0.272
−0.274
−0.276
−0.278
−0.28
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1984
Std Dev 2001
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 46
Mean −1.626
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

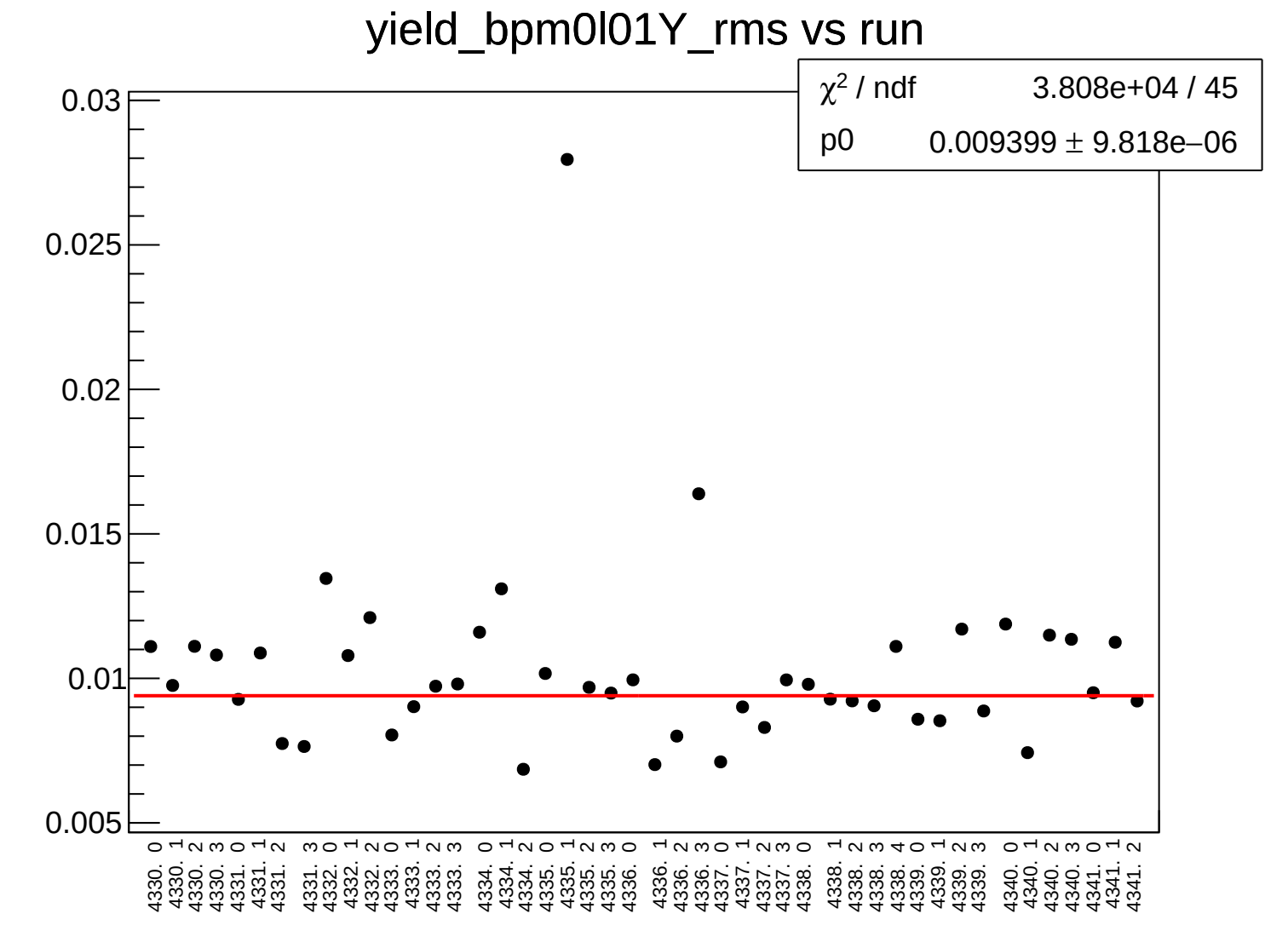

yield_bpm16Y_rms vs run
χ² / ndf 1.704e+04 / 45
p0 0.002562 ± 2.646e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

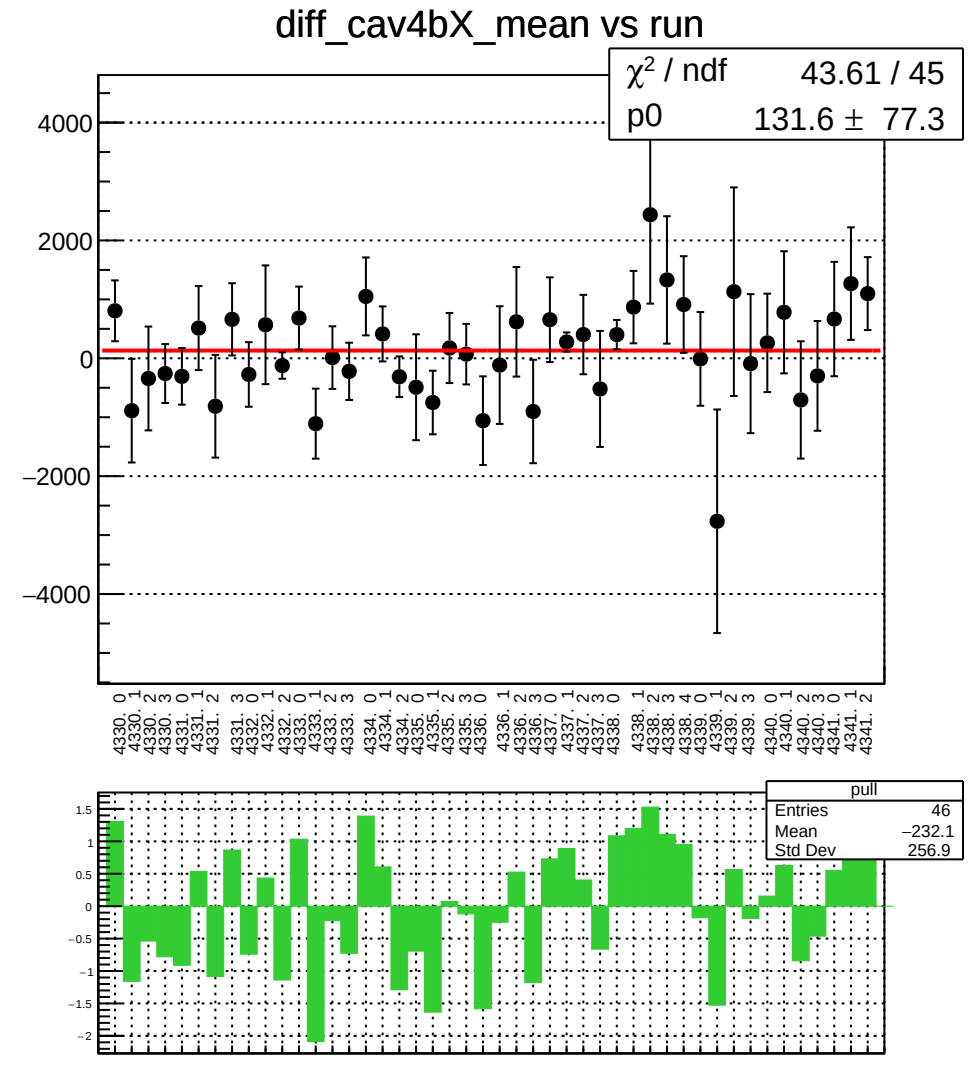

yield_bpm0l01X_mean vs run
χ² / ndf 3.788e+06 / 45
p0 −0.5604 ± 1.41e−05
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 492.2
Std Dev 466.3
600
400
200
0
−200

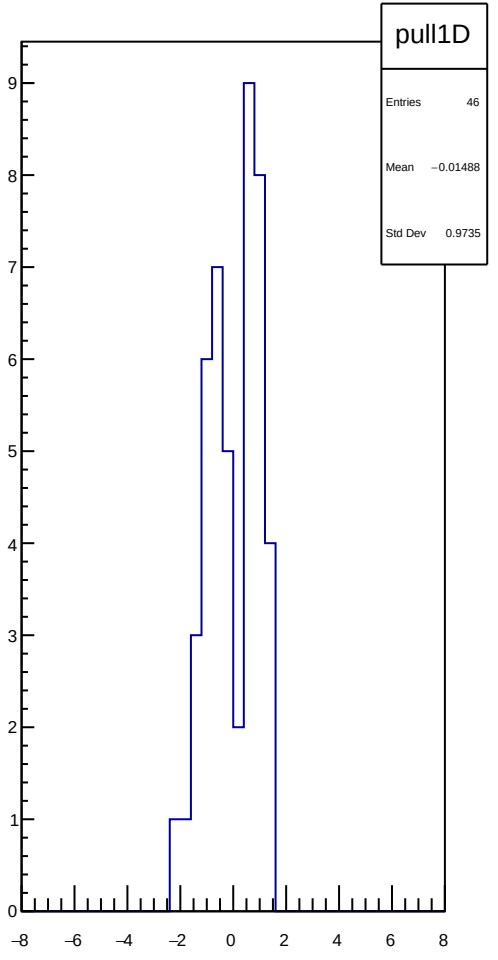

pull1D
Entries 46
Mean −4.113
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

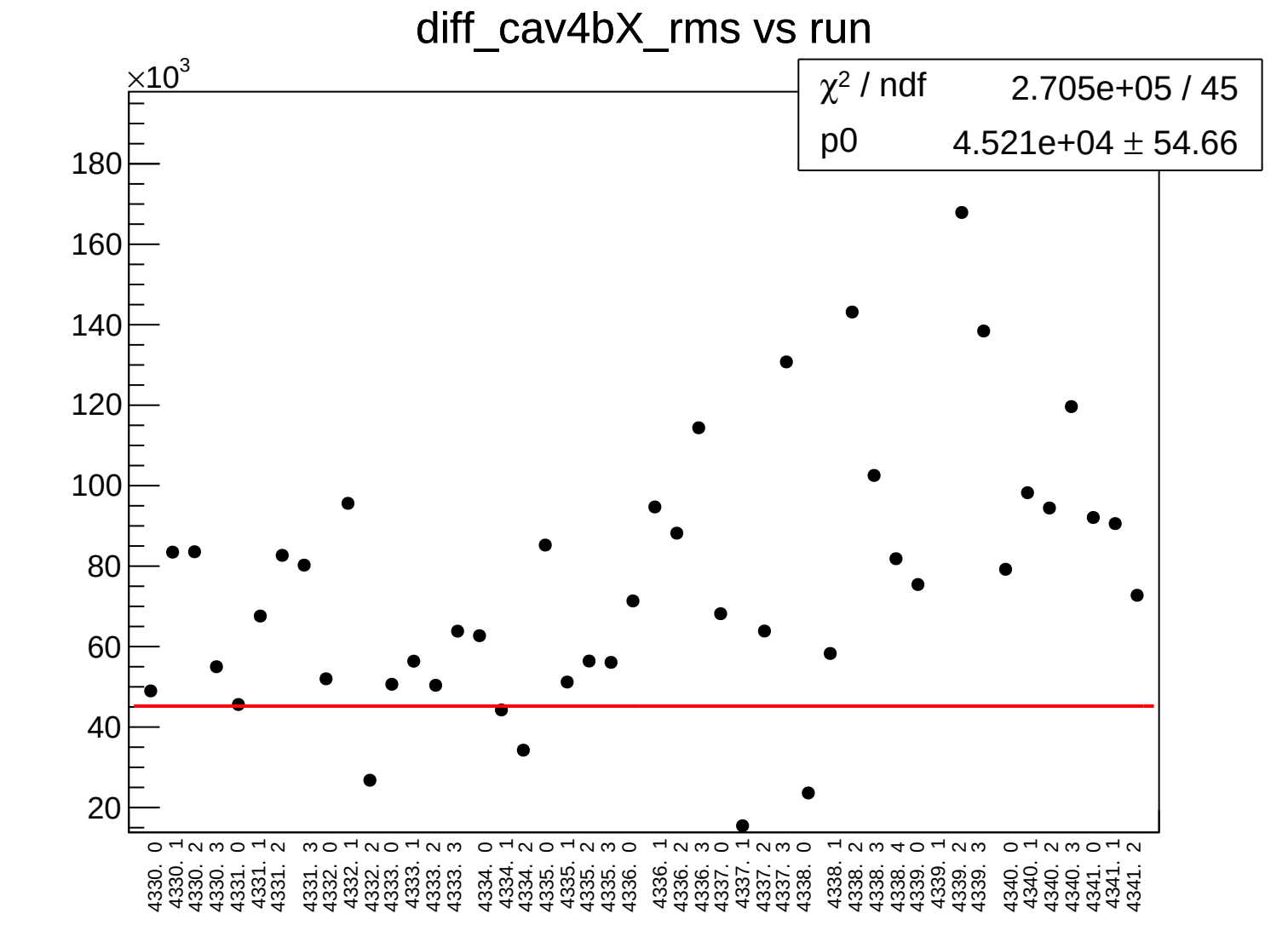

yield_bpm0l01X_rms vs run
χ² / ndf 3.102e+04 / 45
p0 0.009584 ± 9.972e−06
0.035
0.03
0.025
0.02
0.015
0.01
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

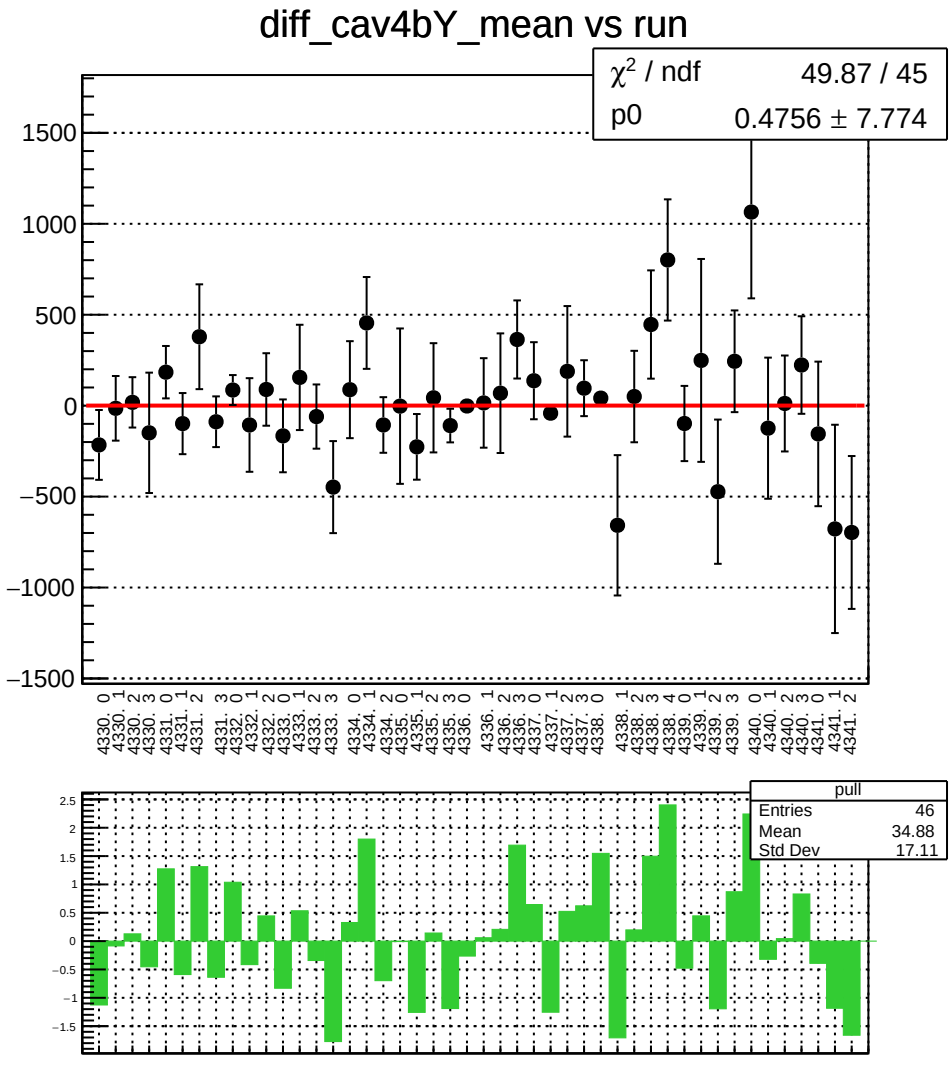

yield_bpm0l01Y_mean vs run
χ² / ndf 1.02e+06 / 45
p0 −6.04 ± 1.388e−05
−5.98
−6
−6.02
−6.04
−6.06
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −503.3
Std Dev 539.4
300
200
100
0
−100
−200
−300
pull1D
Entries 46
Mean 2.517
Std Dev 6.765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

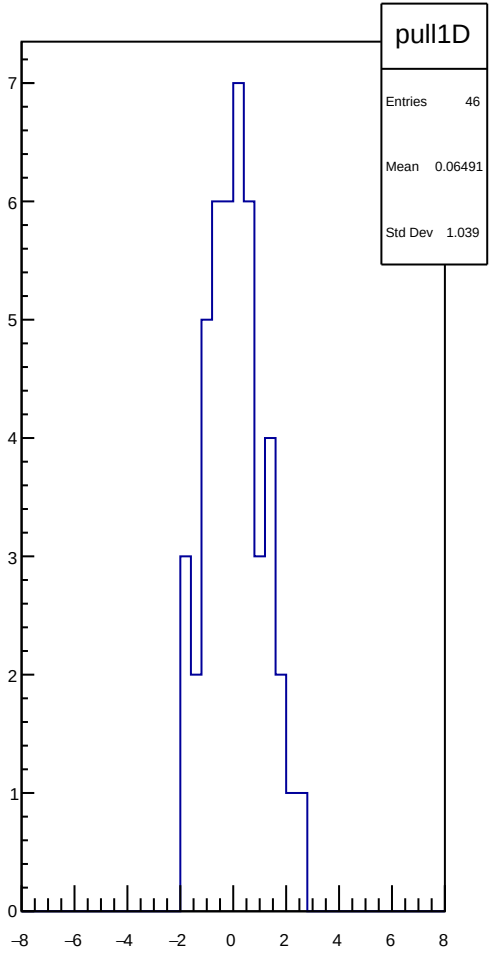

yield_bpm0l01Y_rms vs run
χ² / ndf 3.808e+04 / 45
p0 0.009399 ± 9.818e−06
0.03
0.025
0.02
0.015
0.01
0.005
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

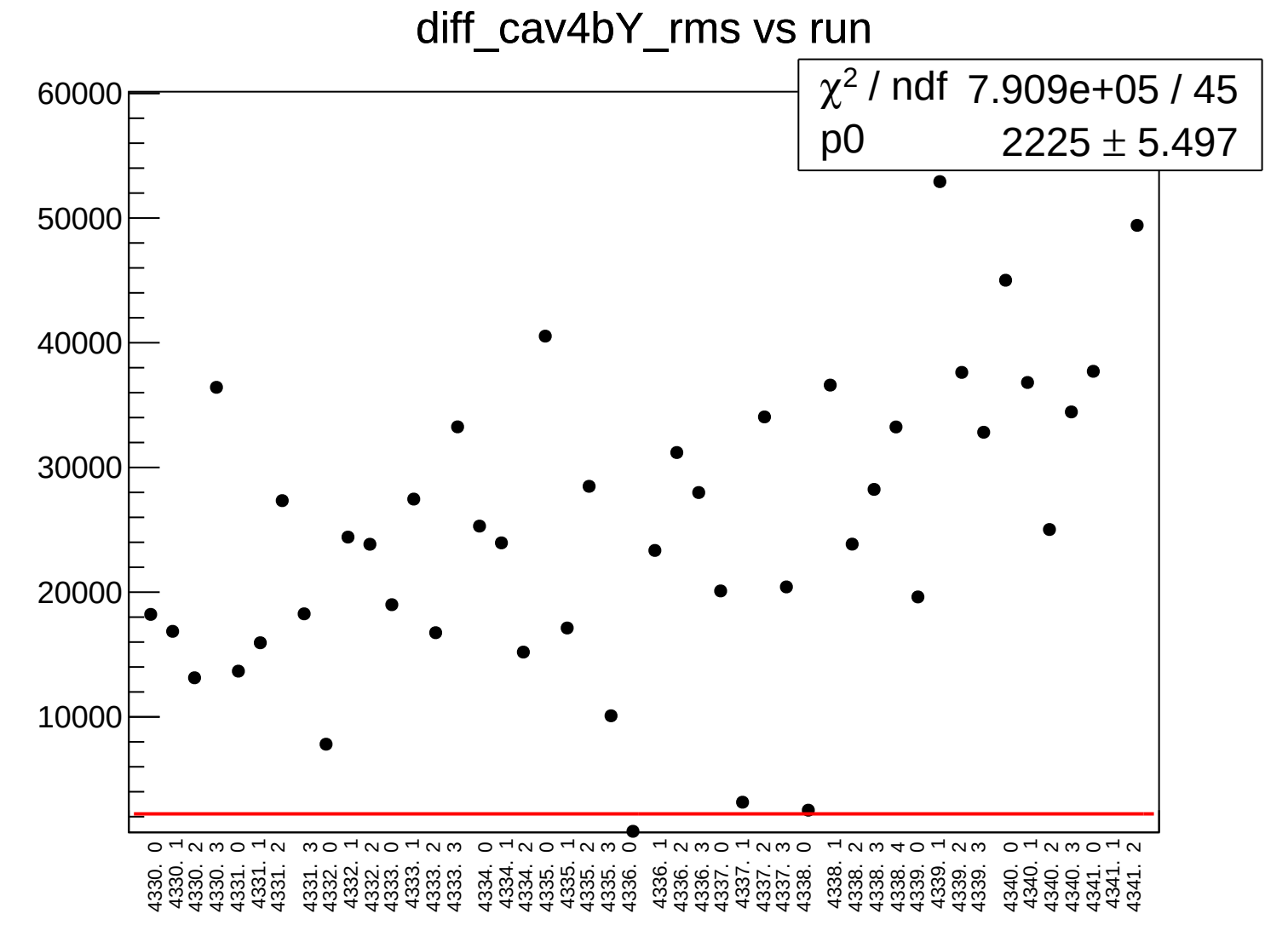

diff_cav4bX_mean vs run
χ² / ndf 43.61 / 45
p0 131.6 ± 77.3
4000
2000
0
−2000
−4000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −232.1
Std Dev 256.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

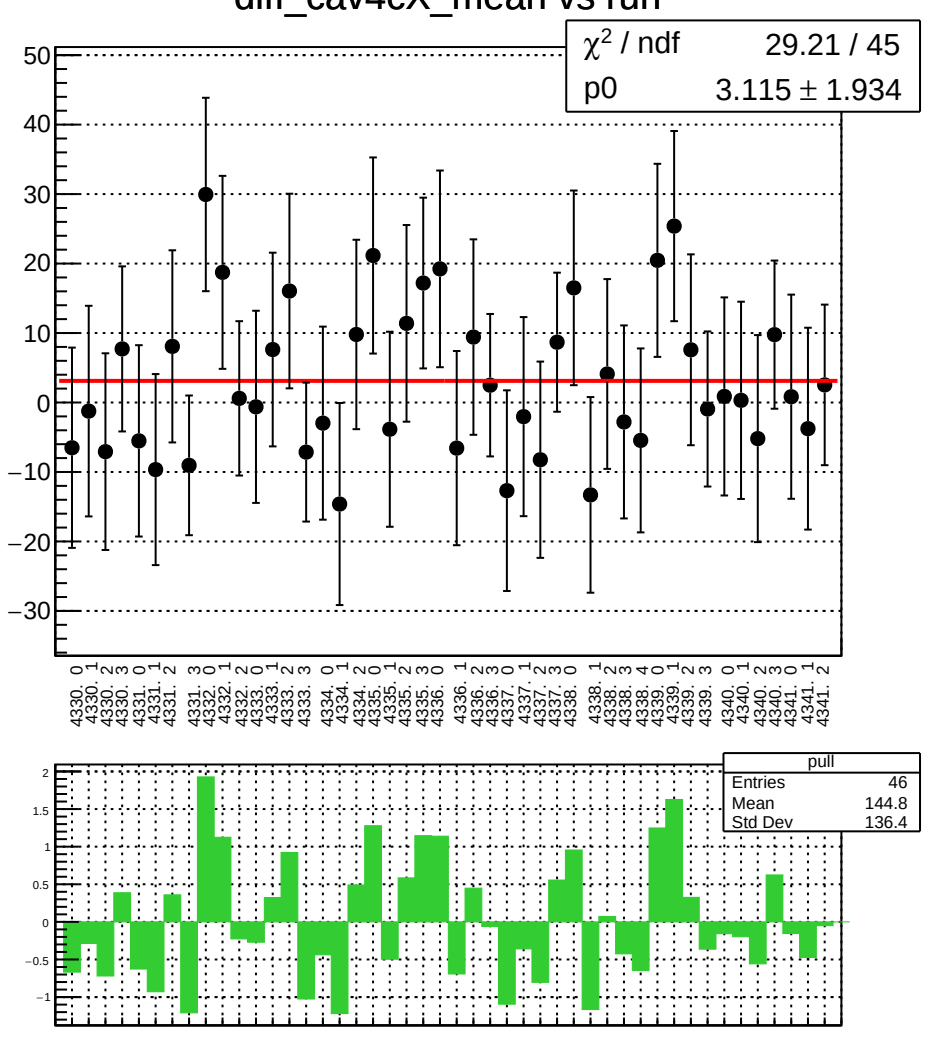

pull1D
Entries 46
Mean −0.01488
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

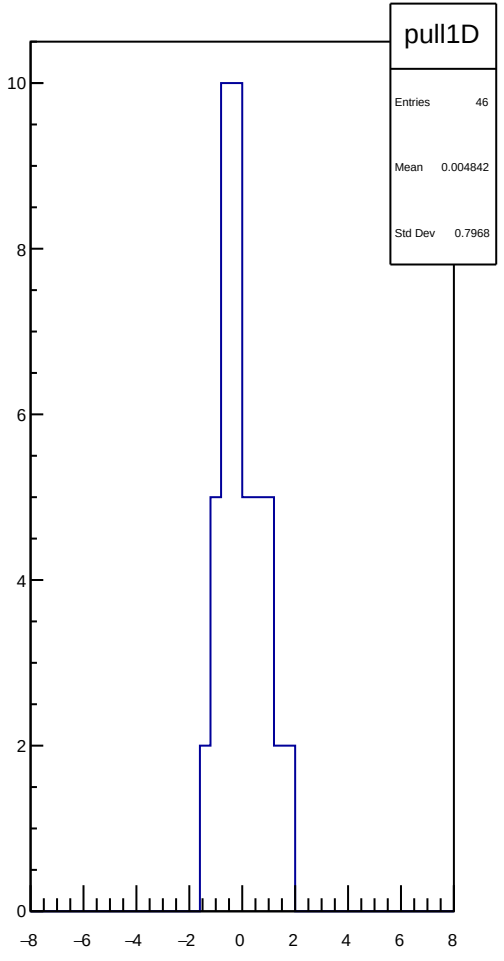

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 2.705e+05 / 45
p0 4.521e+04 ± 54.66
180
160
140
120
100
80
60
40
20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

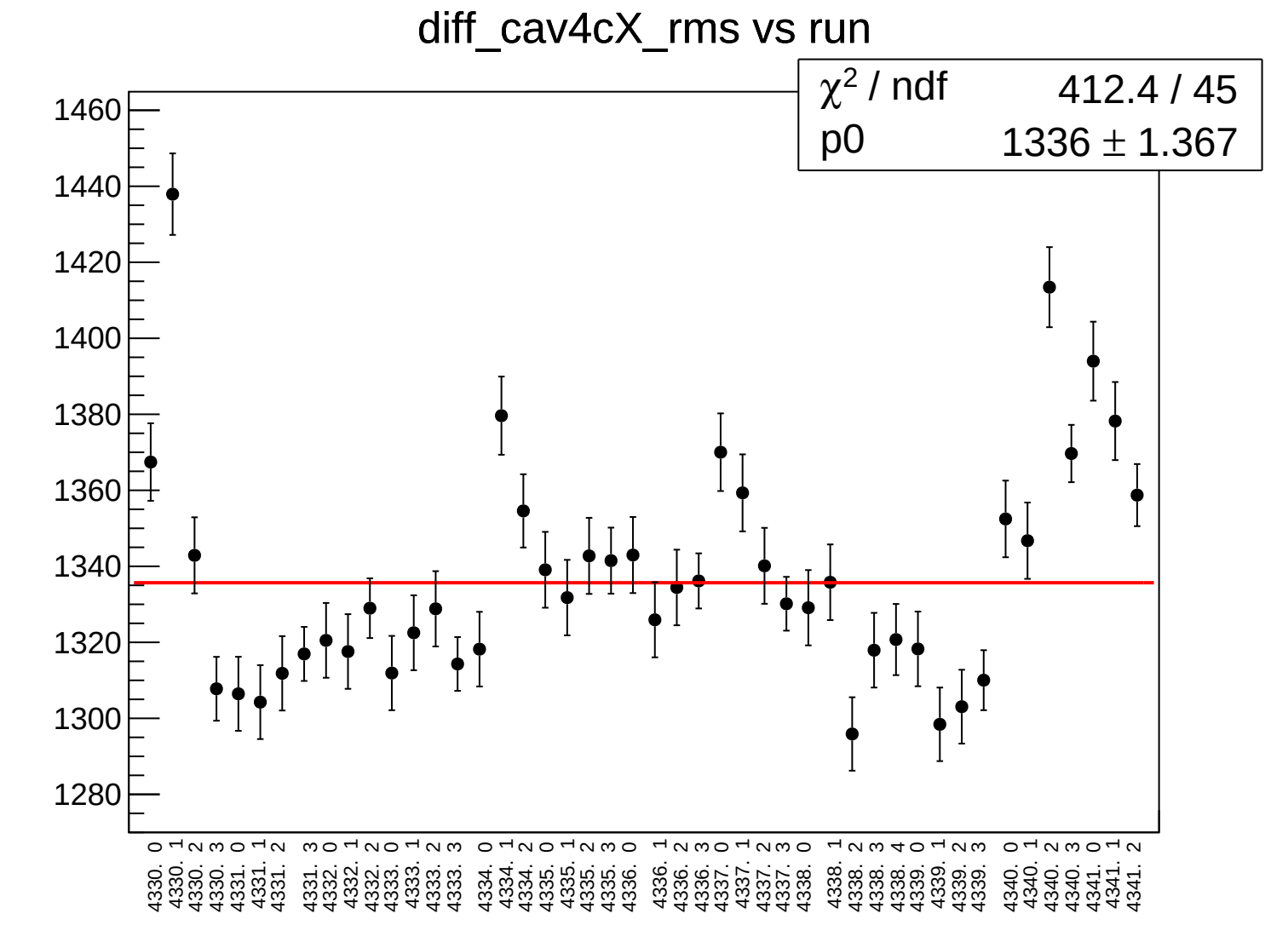

diff_cav4bY_mean vs run
χ² / ndf 49.87 / 45
p0 0.4756 ± 7.774
pull
Entries 46
Mean 34.88
Std Dev 17.11

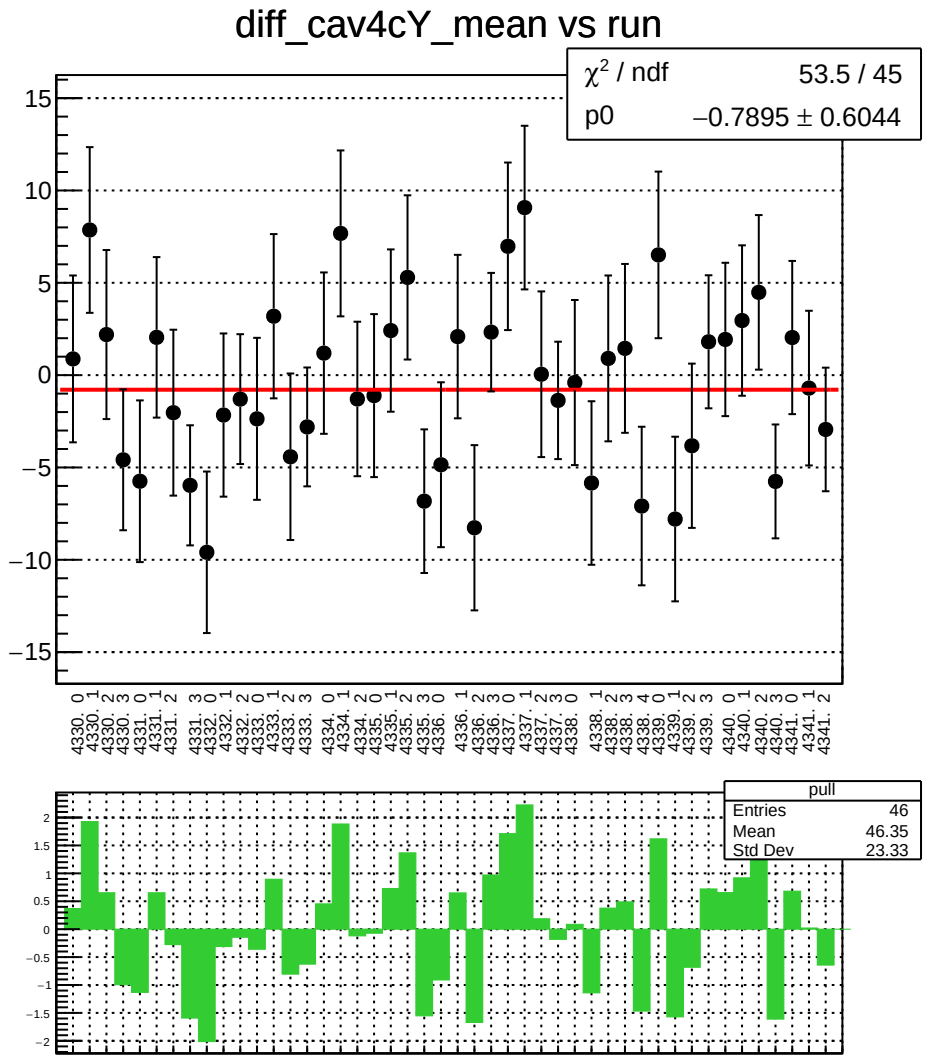

pull1D
Entries 46
Mean 0.06491
Std Dev 1.039

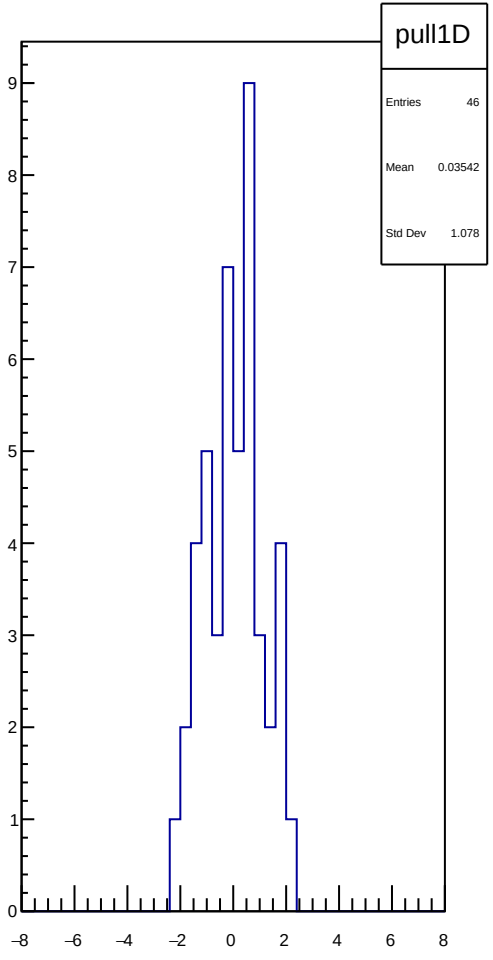

diff_cav4bY_rms vs run
χ^2 / ndf 7.909e+05 / 45
p0 2225 ± 5.497
60000
50000
40000
30000
20000
10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

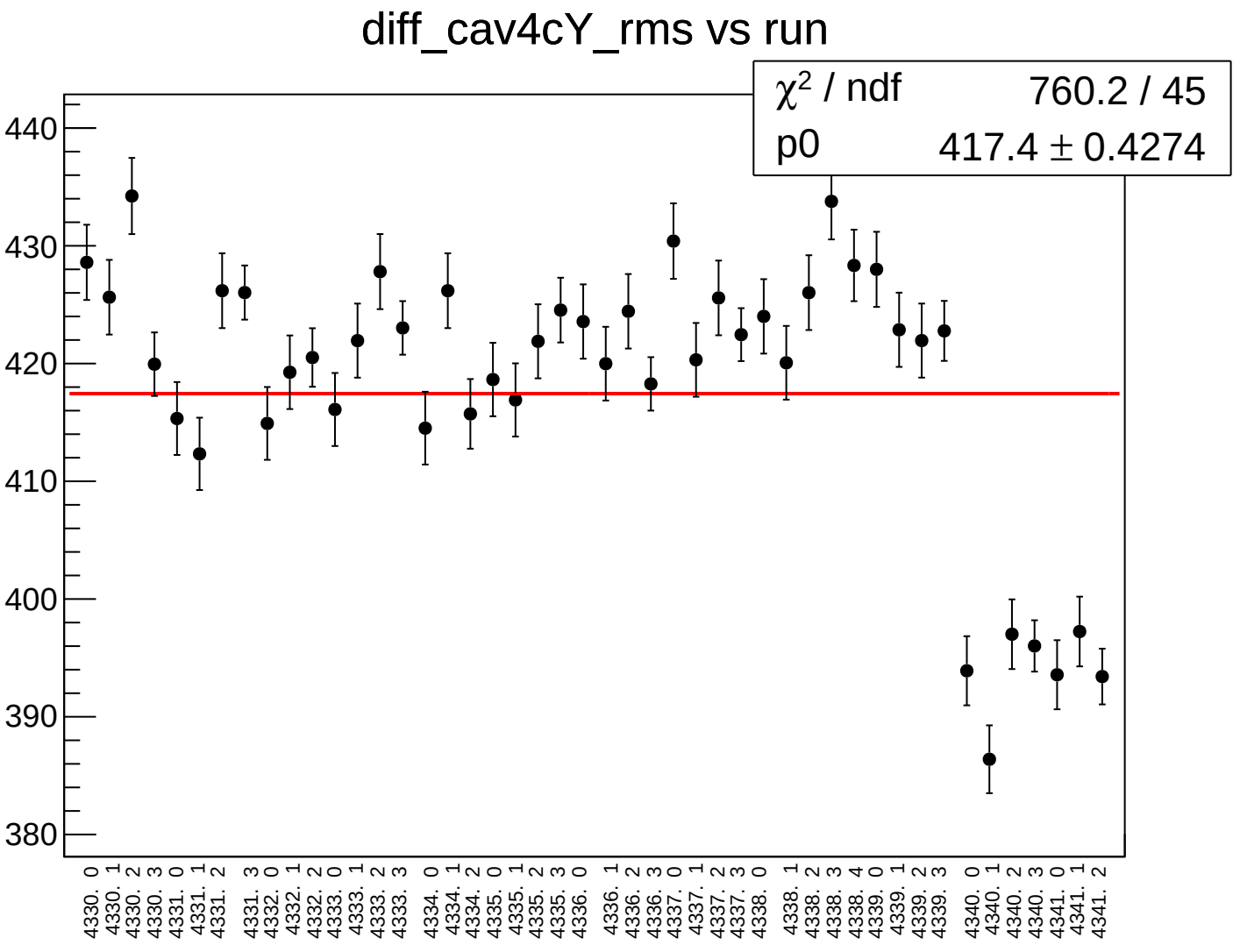

diff_cav4cX_mean vs run
χ² / ndf 29.21 / 45
p0 3.115 ± 1.934
pull
Entries 46
Mean 144.8
Std Dev 136.4

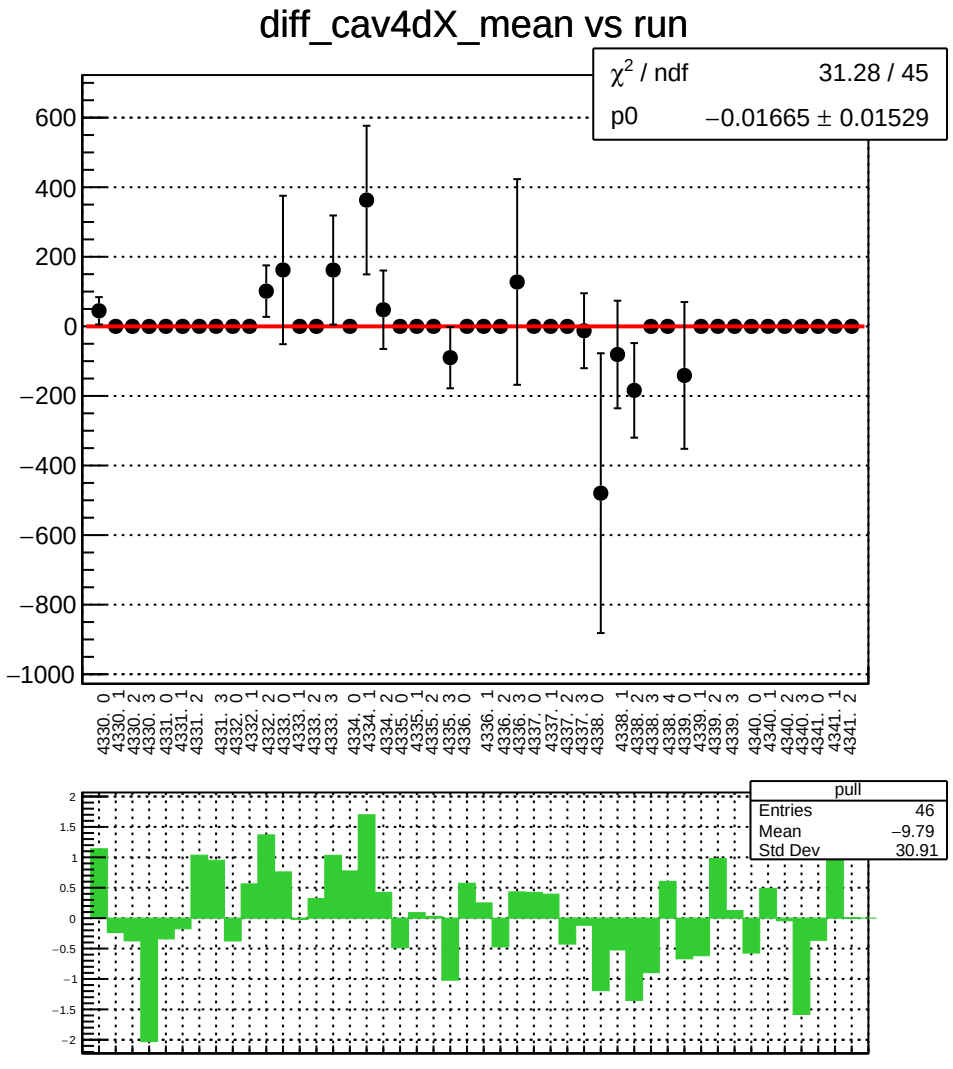

pull1D
Entries 46
Mean 0.004842
Std Dev 0.7968

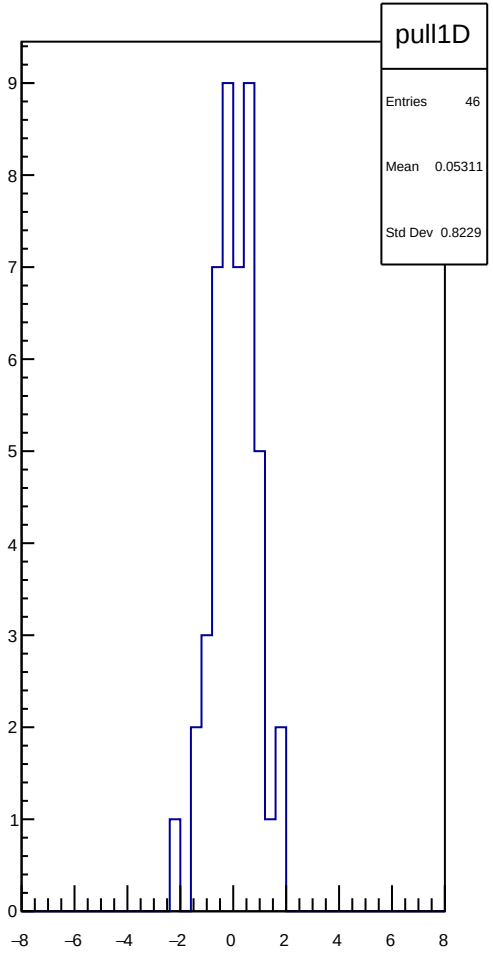

diff_cav4cX_rms vs run
χ² / ndf 412.4 / 45
p0 1336 ± 1.367
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

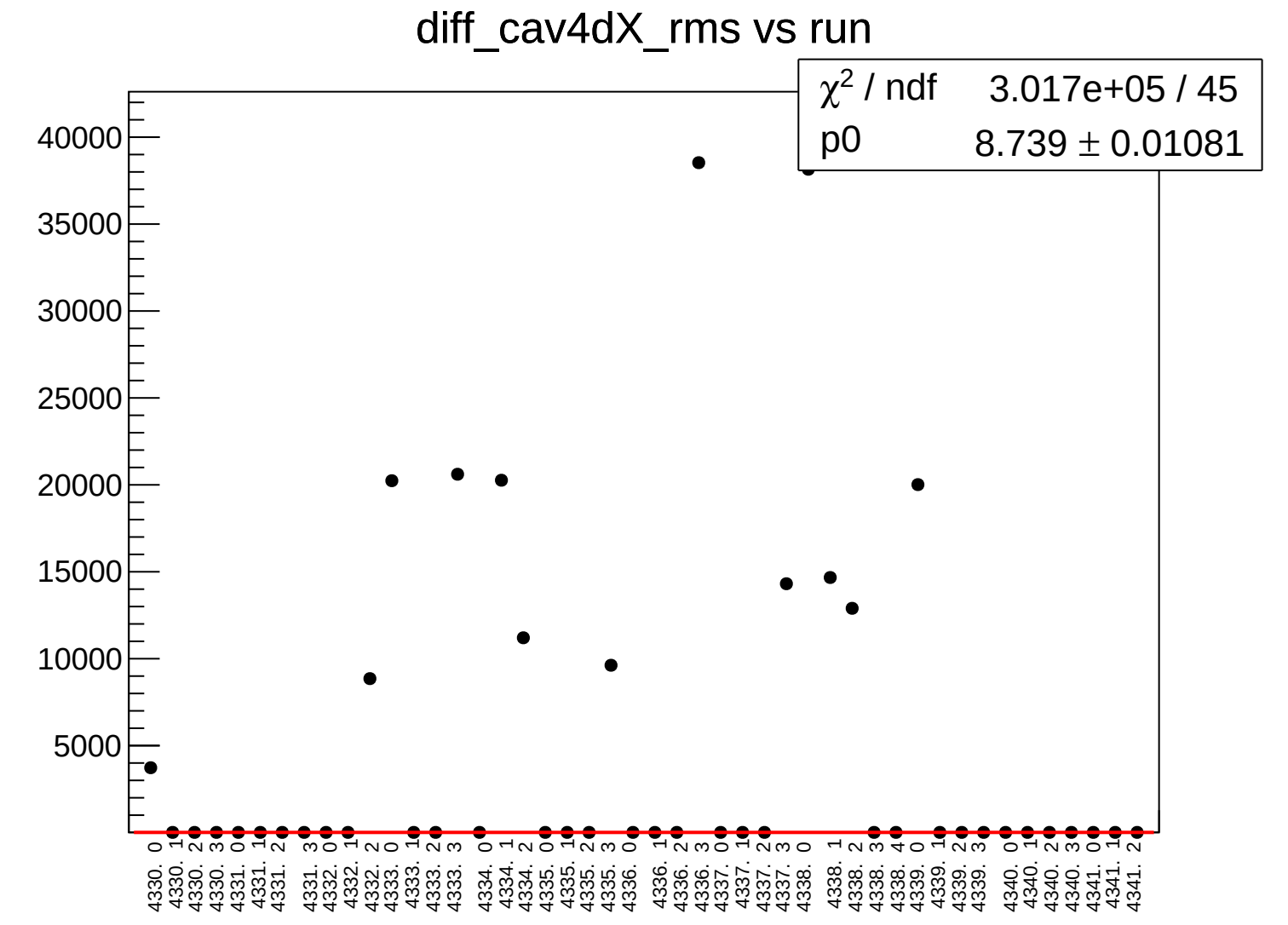

diff_cav4cY_mean vs run
χ² / ndf 53.5 / 45
p0 −0.7895 ± 0.6044
pull
Entries 46
Mean 46.35
Std Dev 23.33

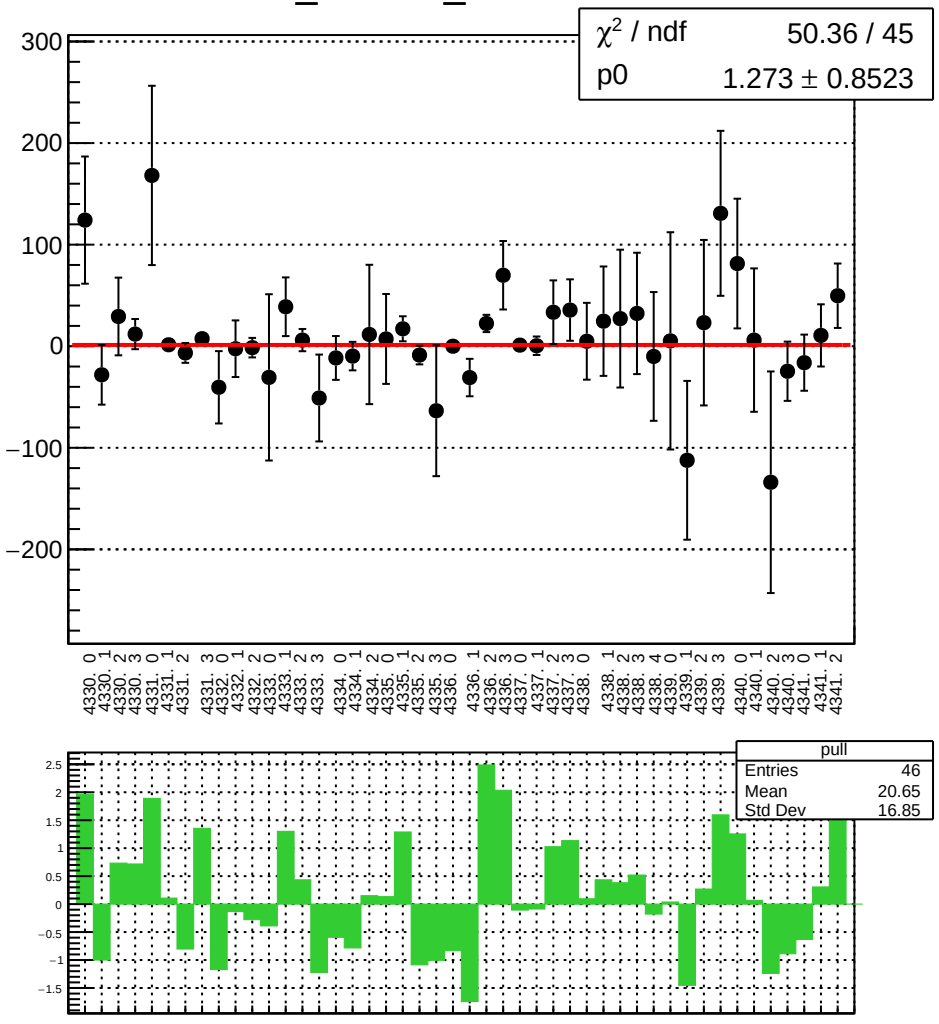

pull1D
Entries 46
Mean 0.03542
Std Dev 1.078

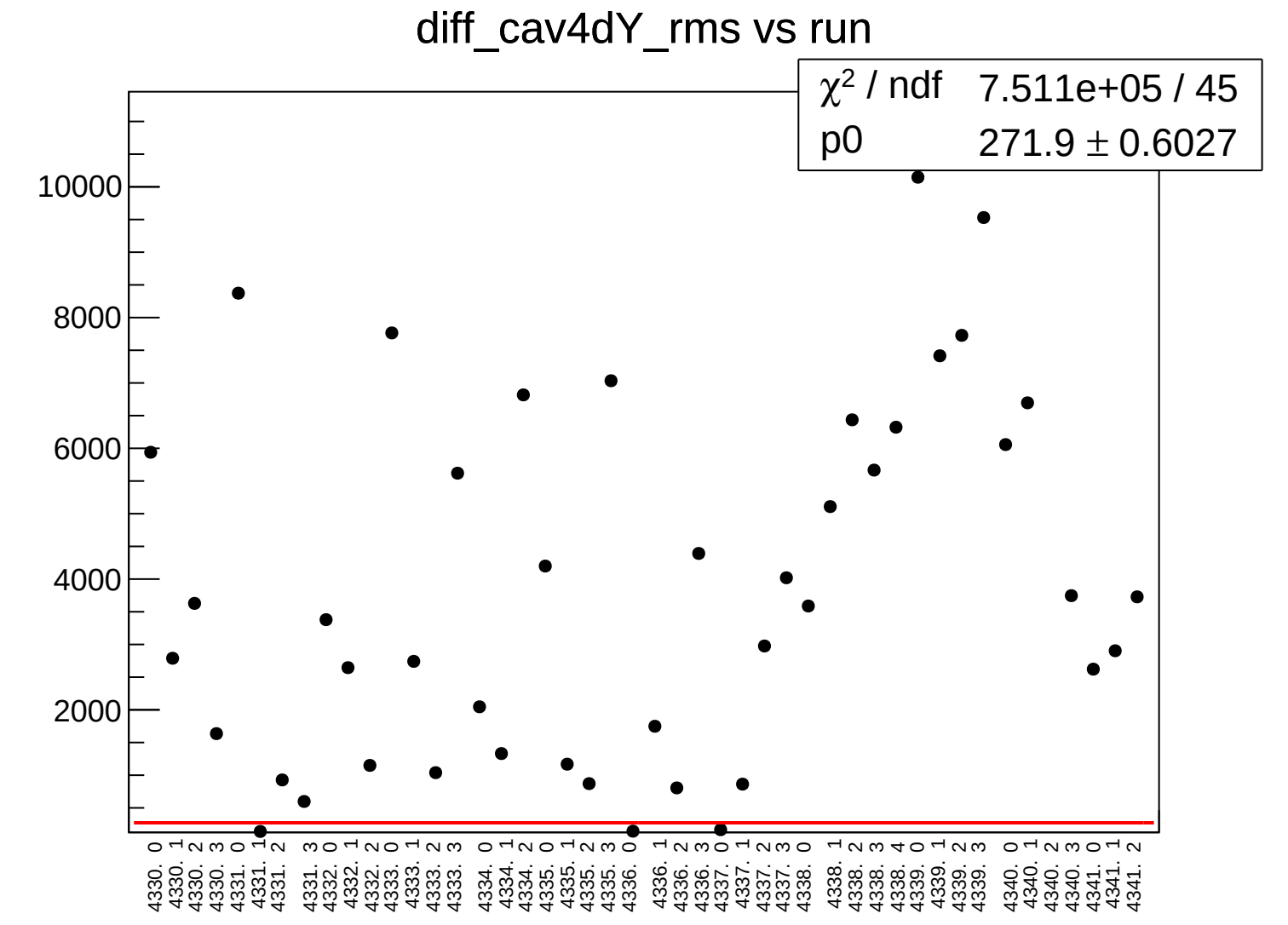

diff_cav4cY_rms vs run
χ² / ndf 760.2 / 45
p0 417.4 ± 0.4274
440
430
420
410
400
390
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

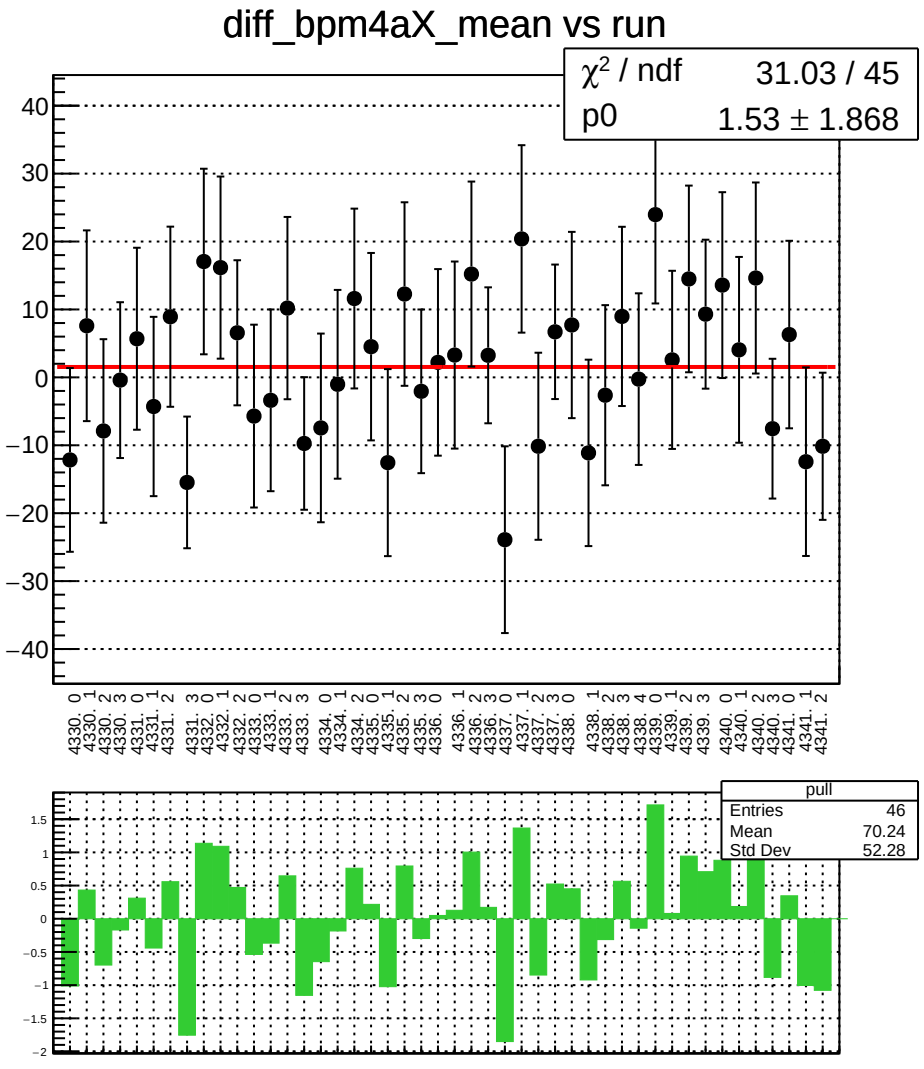

diff_cav4dX_mean vs run
χ^2 / ndf 31.28 / 45
p0 −0.01665 ± 0.01529
600
400
200
0
−200
−400
−600
−800
−1000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −9.79
Std Dev 30.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

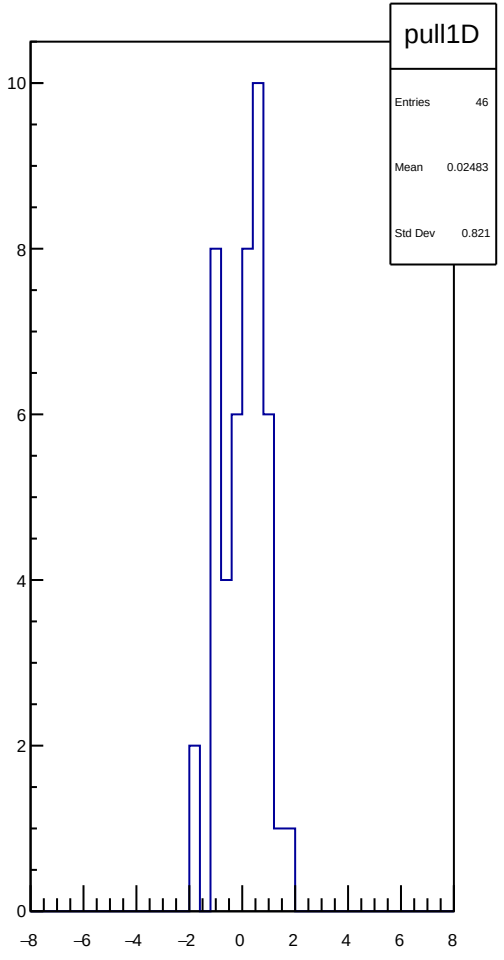

pull1D
Entries 46
Mean 0.05311
Std Dev 0.8229
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

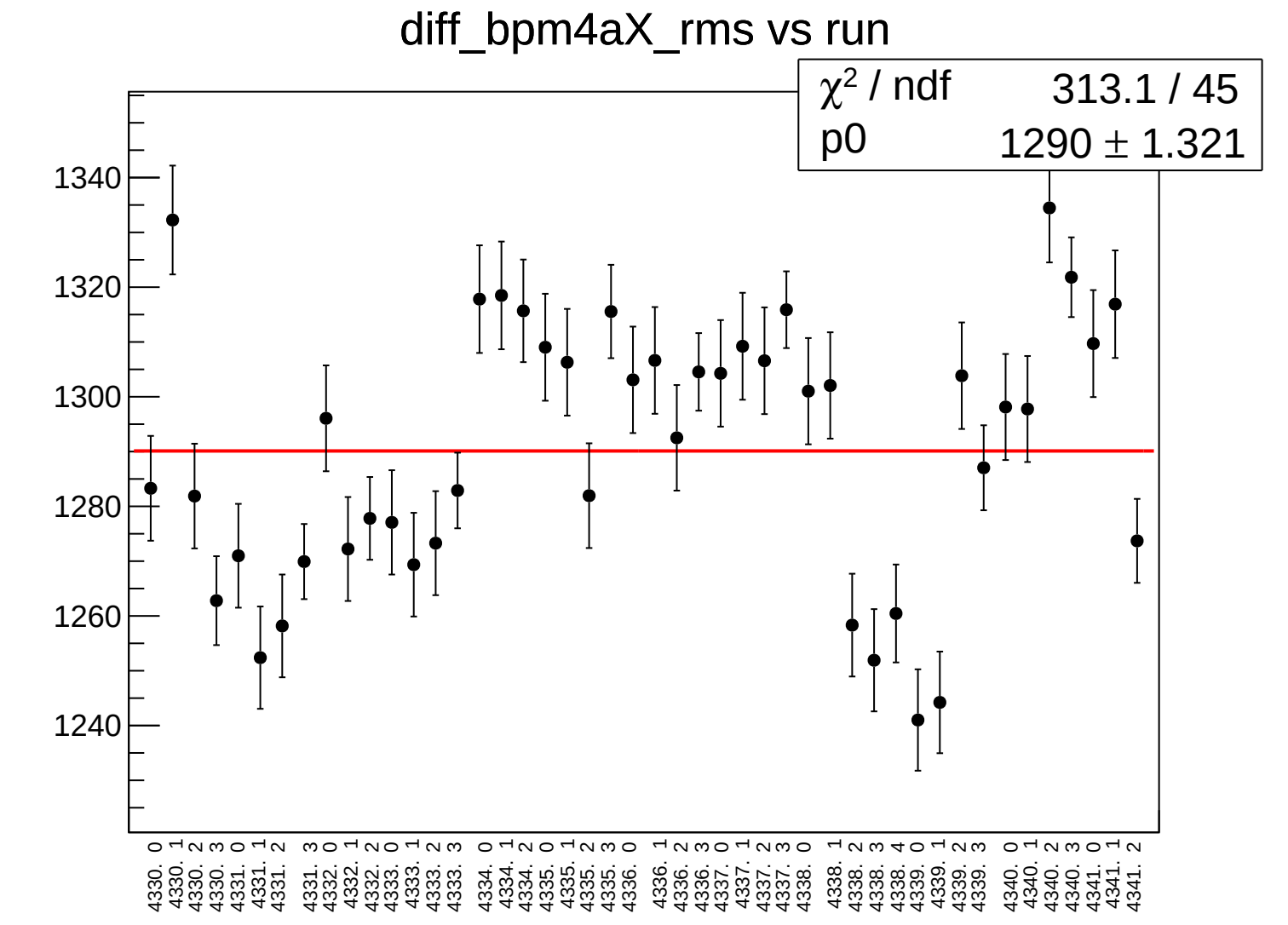

diff_cav4dX_rms vs run
χ² / ndf 3.017e+05 / 45
p0 8.739 ± 0.01081
40000
35000
30000
25000
20000
15000
10000
5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

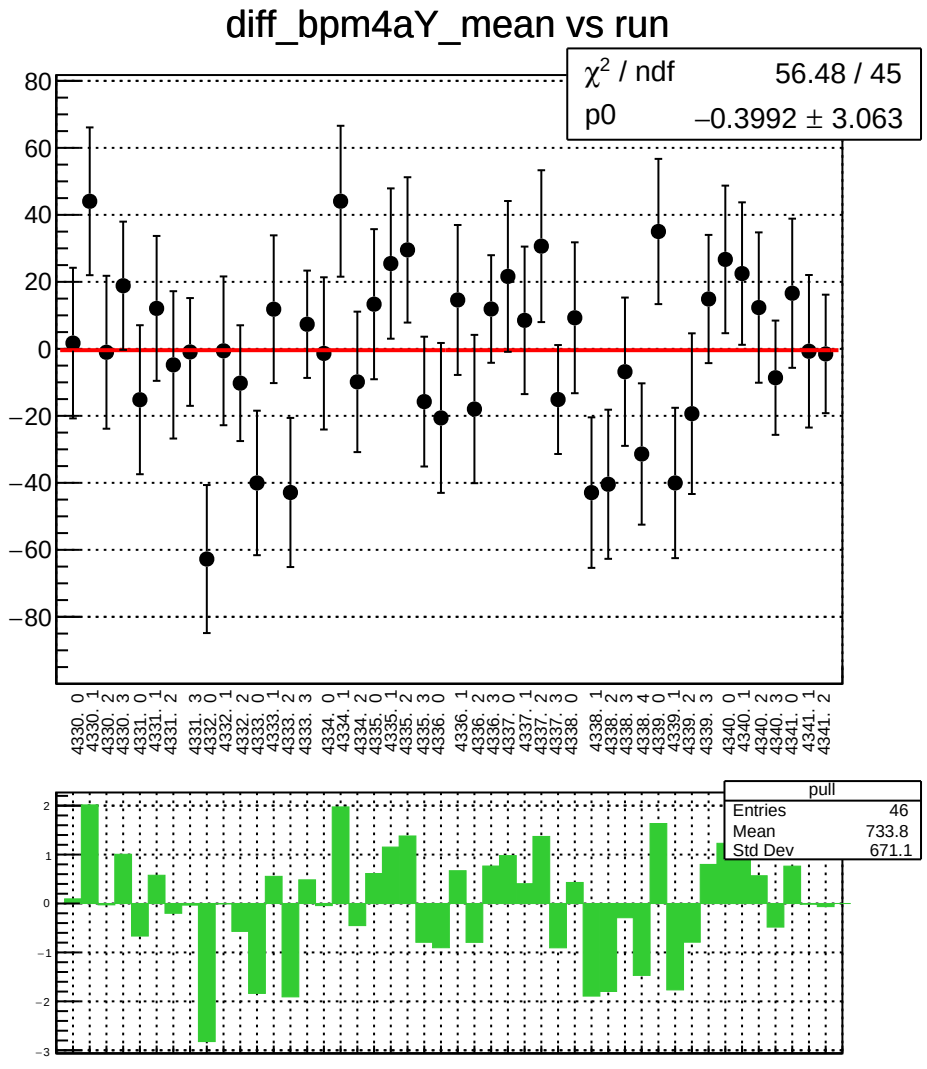

diff_cav4dY_mean vs run
χ² / ndf 50.36 / 45
p0 1.273 ± 0.8523
300
200
100
0
−100
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 20.65
Std Dev 16.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.1656
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

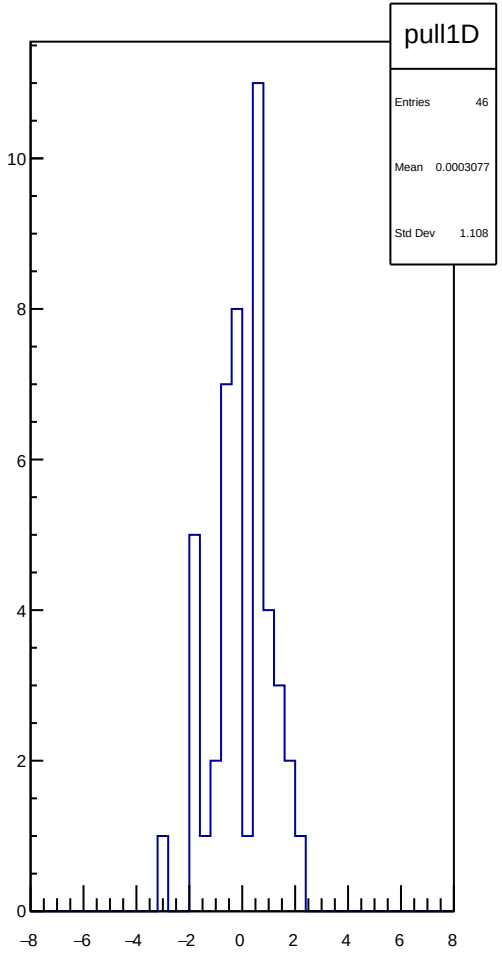

diff_cav4dY_rms vs run
χ² / ndf 7.511e+05 / 45
p0 271.9 ± 0.6027
10000
8000
6000
4000
2000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

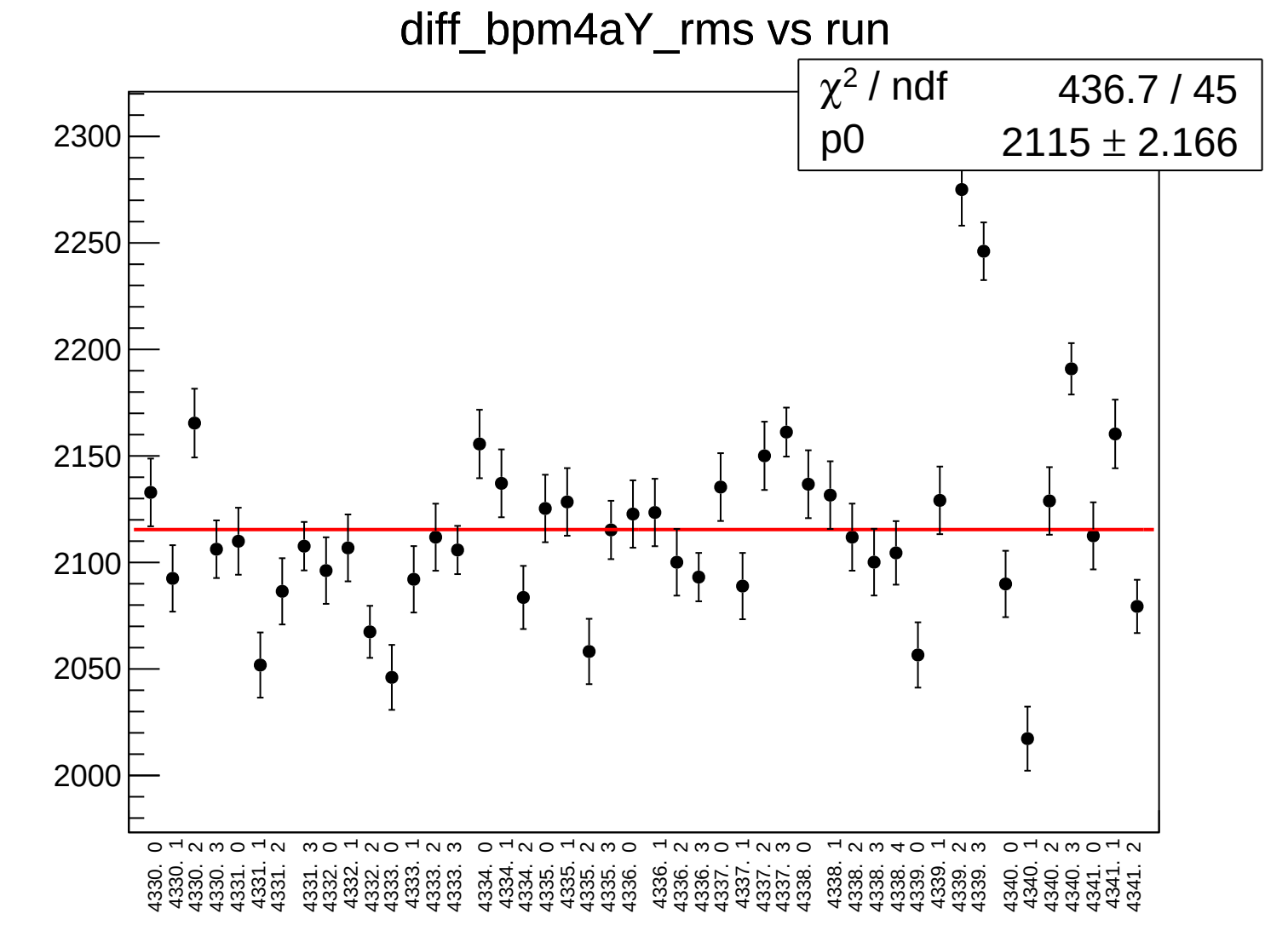

diff_bpm4aX_mean vs run
χ² / ndf 31.03 / 45
p0 1.53 ± 1.868
pull
Entries 46
Mean 70.24
Std Dev 52.28

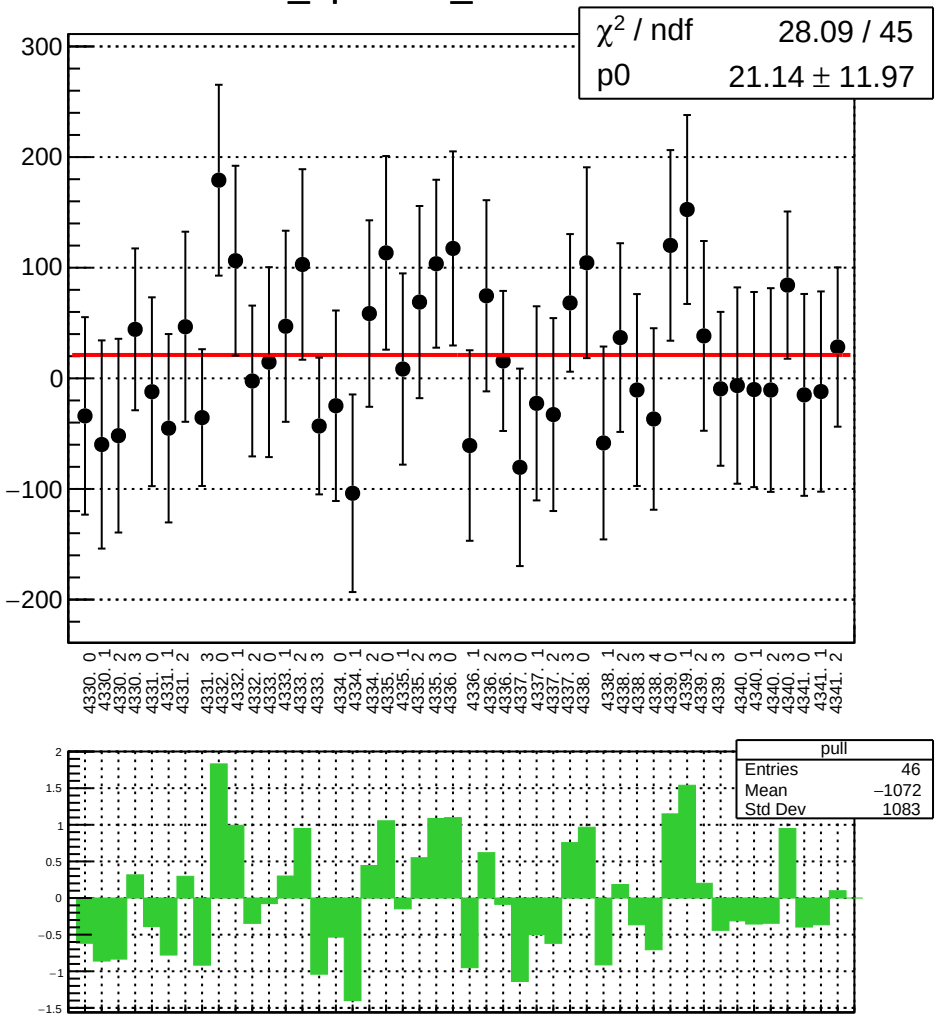

pull1D
Entries 46
Mean 0.02483
Std Dev 0.821

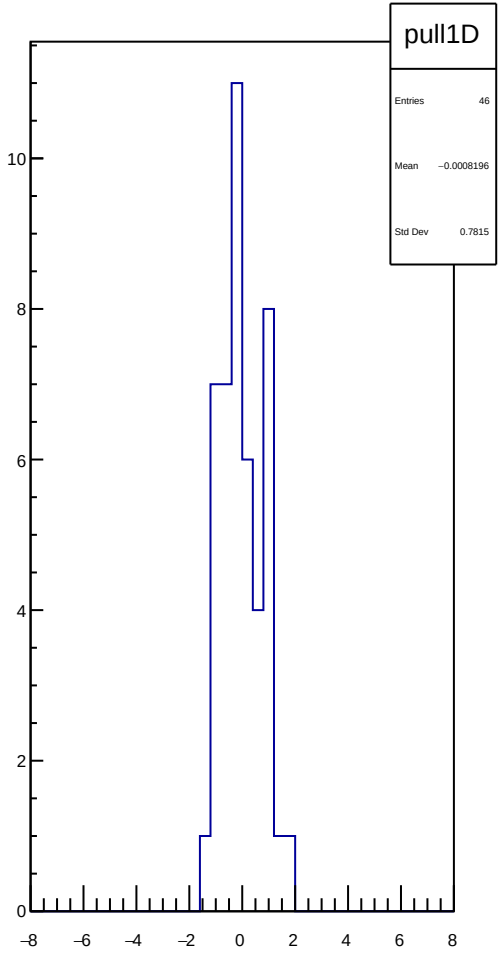

diff_bpm4aX_rms vs run
χ² / ndf 313.1 / 45
p0 1290 ± 1.321
1340
1320
1300
1280
1260
1240
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

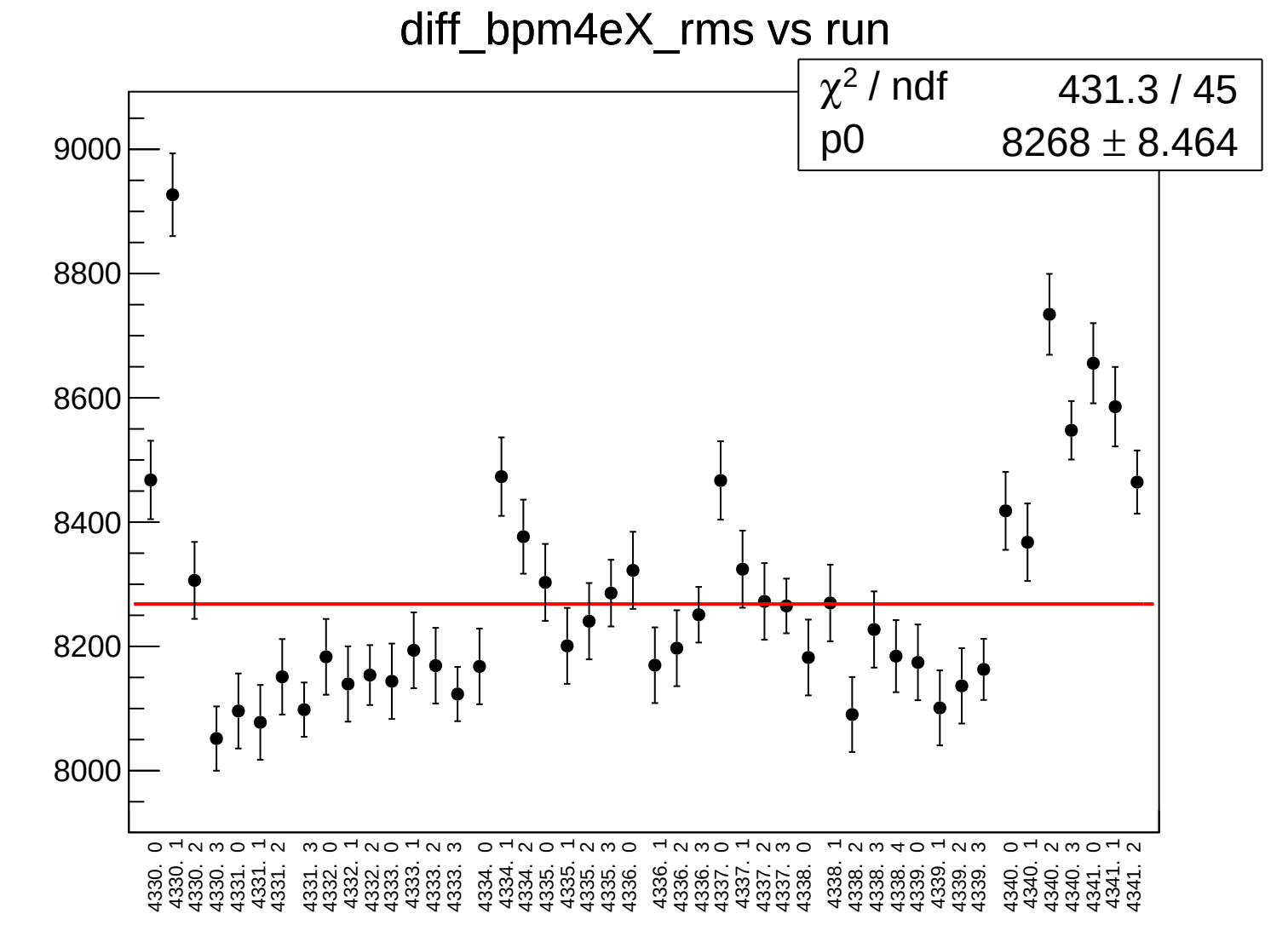

diff_bpm4aY_mean vs run
χ² / ndf 56.48 / 45
p0 −0.3992 ± 3.063
pull
Entries 46
Mean 733.8
Std Dev 671.1

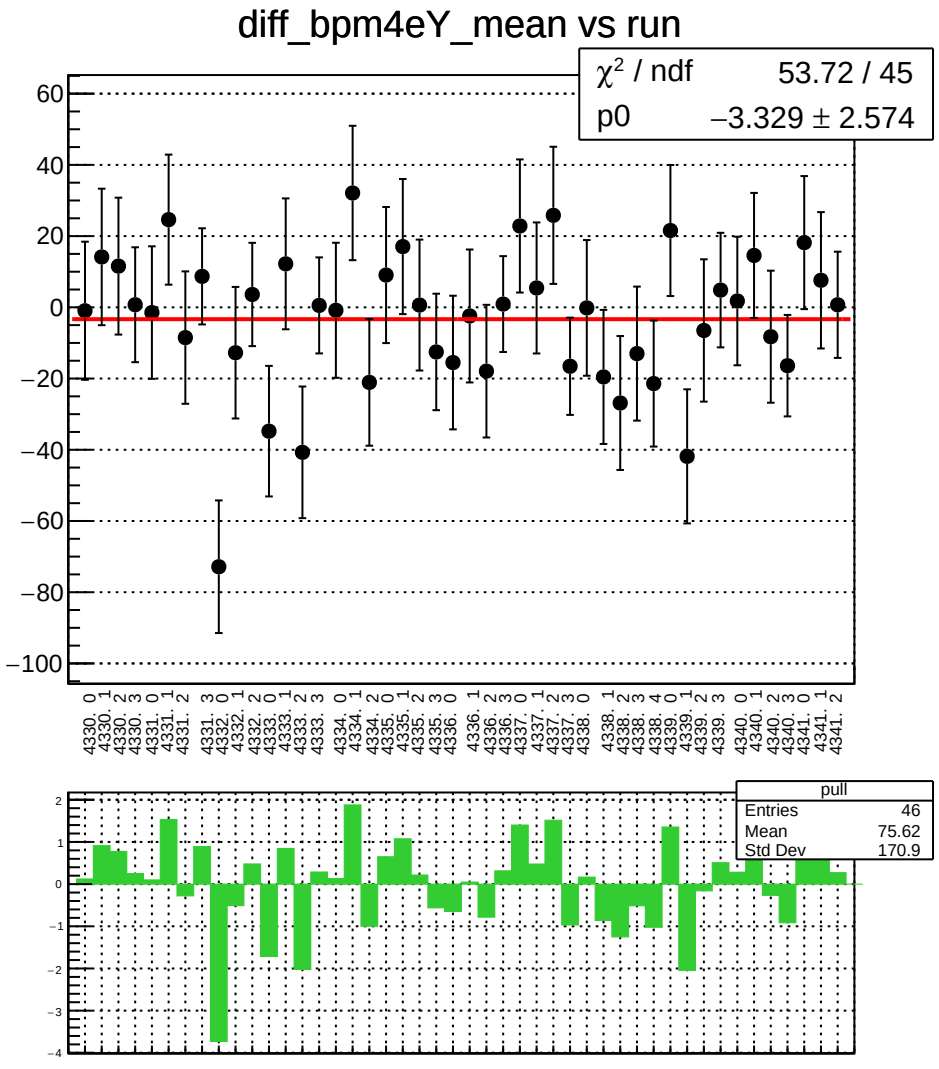

pull1D
Entries 46
Mean 0.0003077
Std Dev 1.108

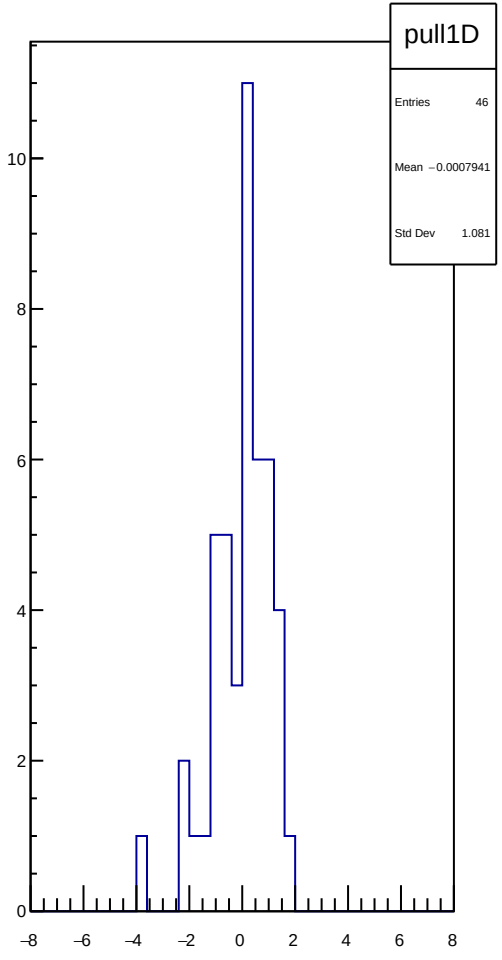

diff_bpm4aY_rms vs run
χ² / ndf 436.7 / 45
p0 2115 ± 2.166
2300
2250
2200
2150
2100
2050
2000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

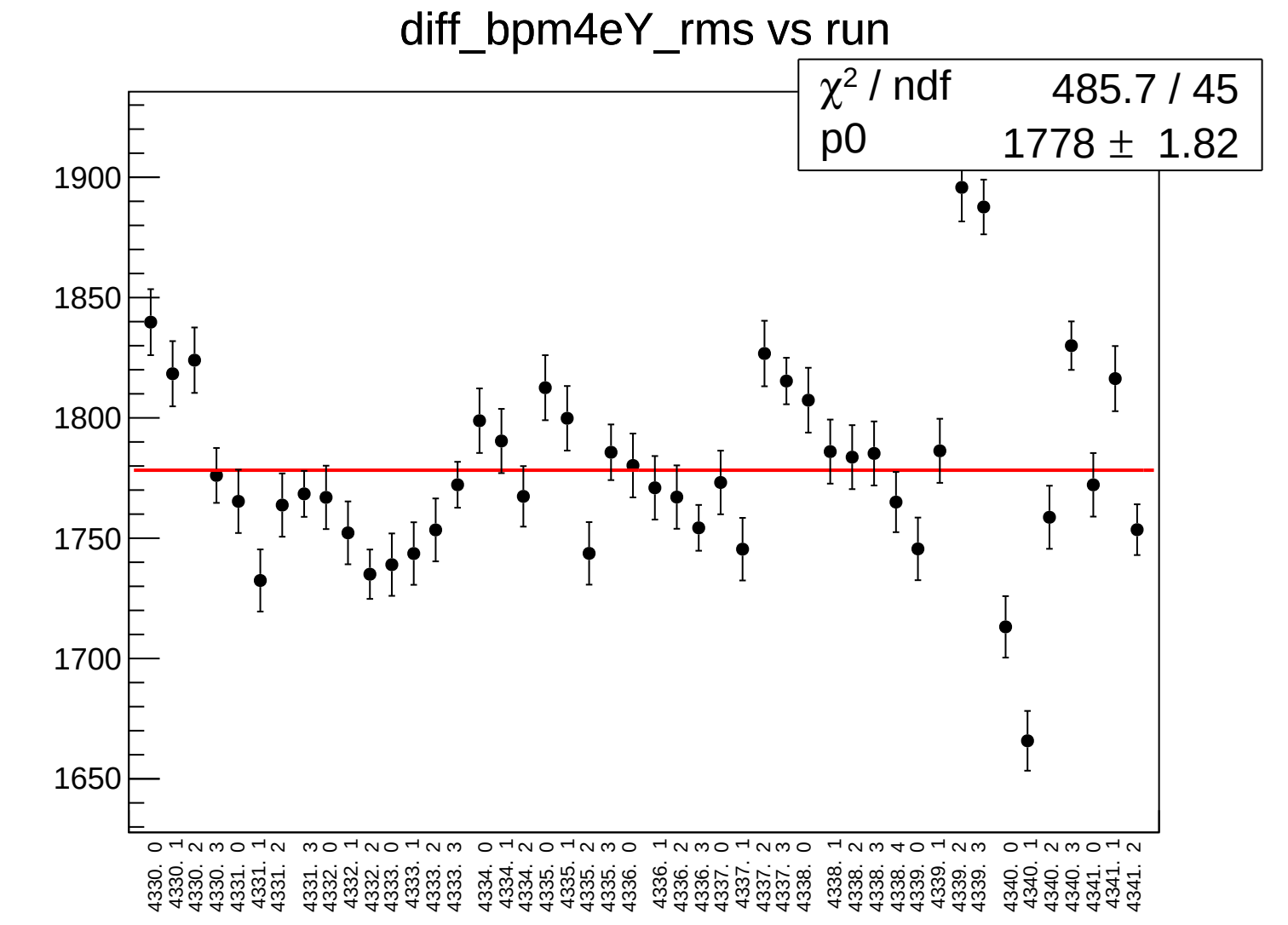

diff_bpm4eX_mean vs run
χ² / ndf 28.09 / 45
p0 21.14 ± 11.97
pull
Entries 46
Mean −1072
Std Dev 1083

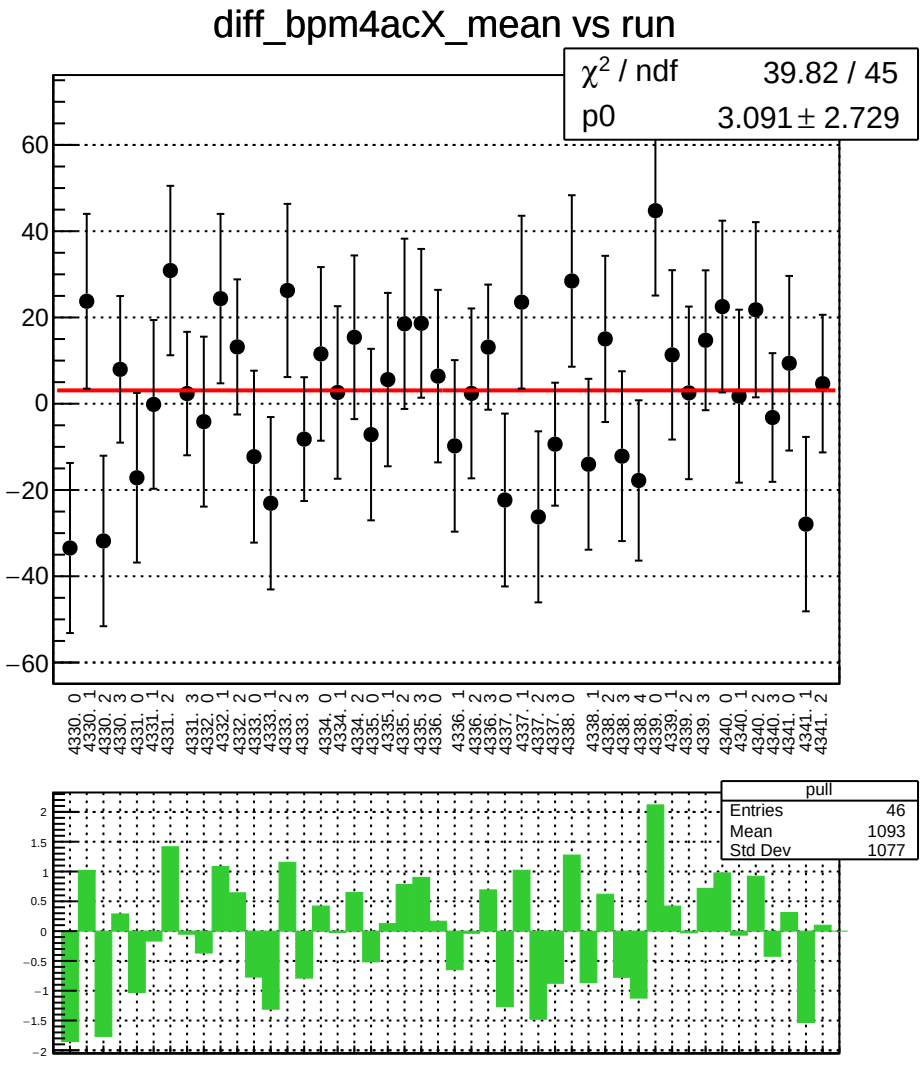

pull1D
Entries 46
Mean −0.0008196
Std Dev 0.7815

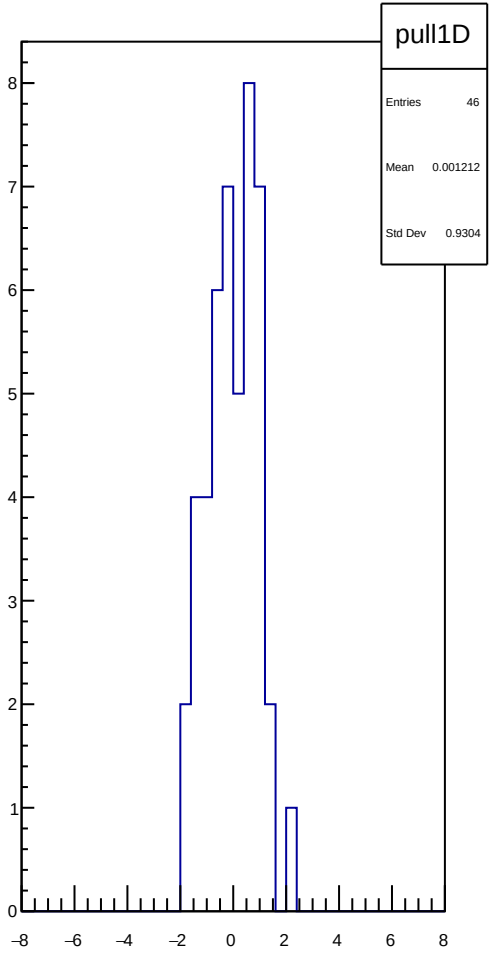

diff_bpm4eX_rms vs run
χ² / ndf 431.3 / 45
p0 8268 ± 8.464
9000
8800
8600
8400
8200
8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

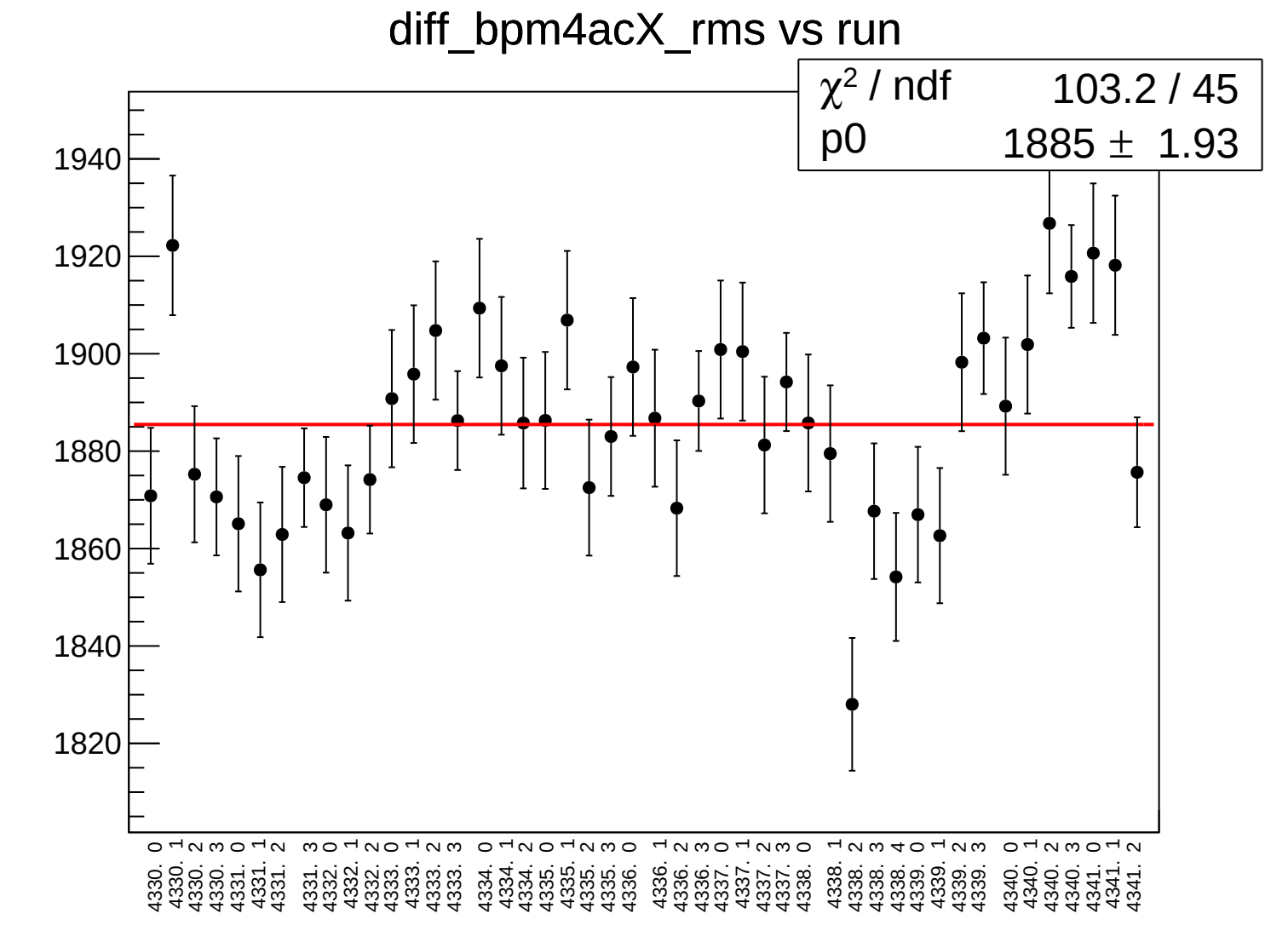

diff_bpm4eY_mean vs run
χ² / ndf 53.72 / 45
p0 −3.329 ± 2.574
pull
Entries 46
Mean 75.62
Std Dev 170.9

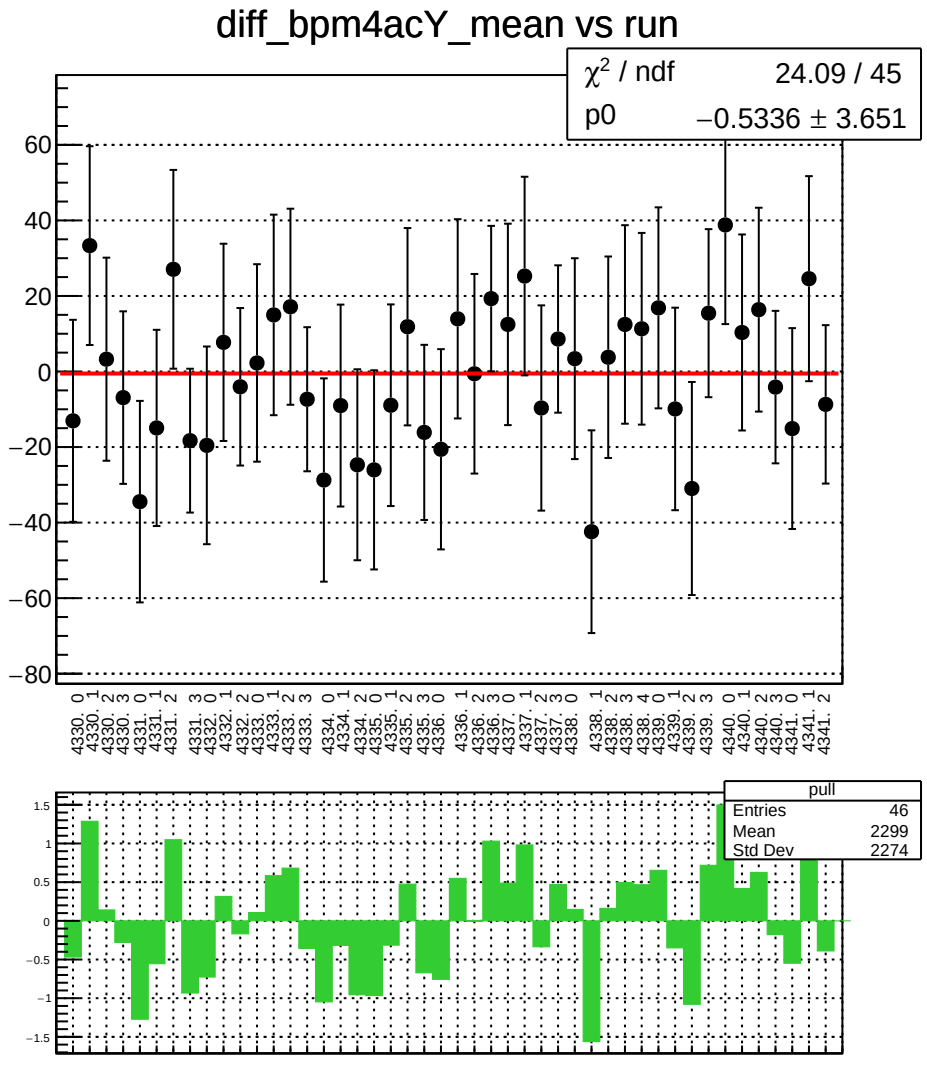

pull1D
Entries 46
Mean −0.0007941
Std Dev 1.081

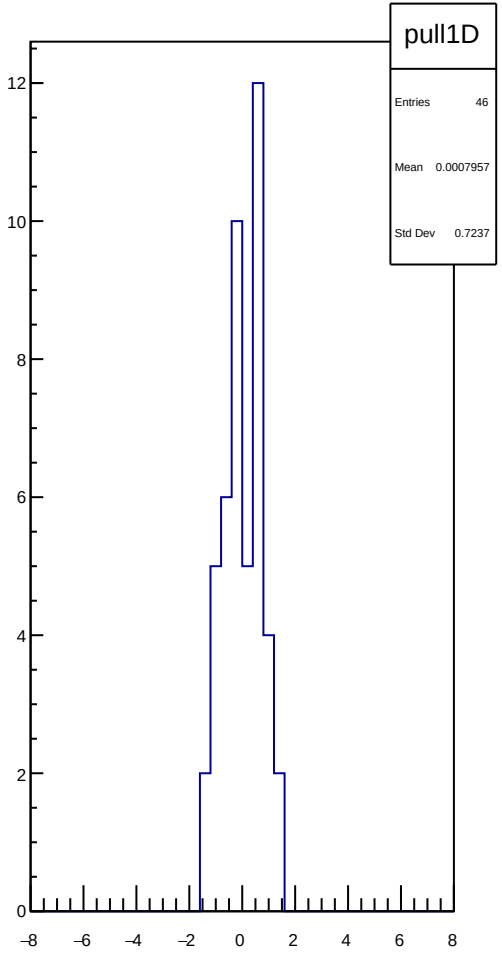

diff_bpm4eY_rms vs run
χ² / ndf 485.7 / 45
p0 1778 ± 1.82
1900
1850
1800
1750
1700
1650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

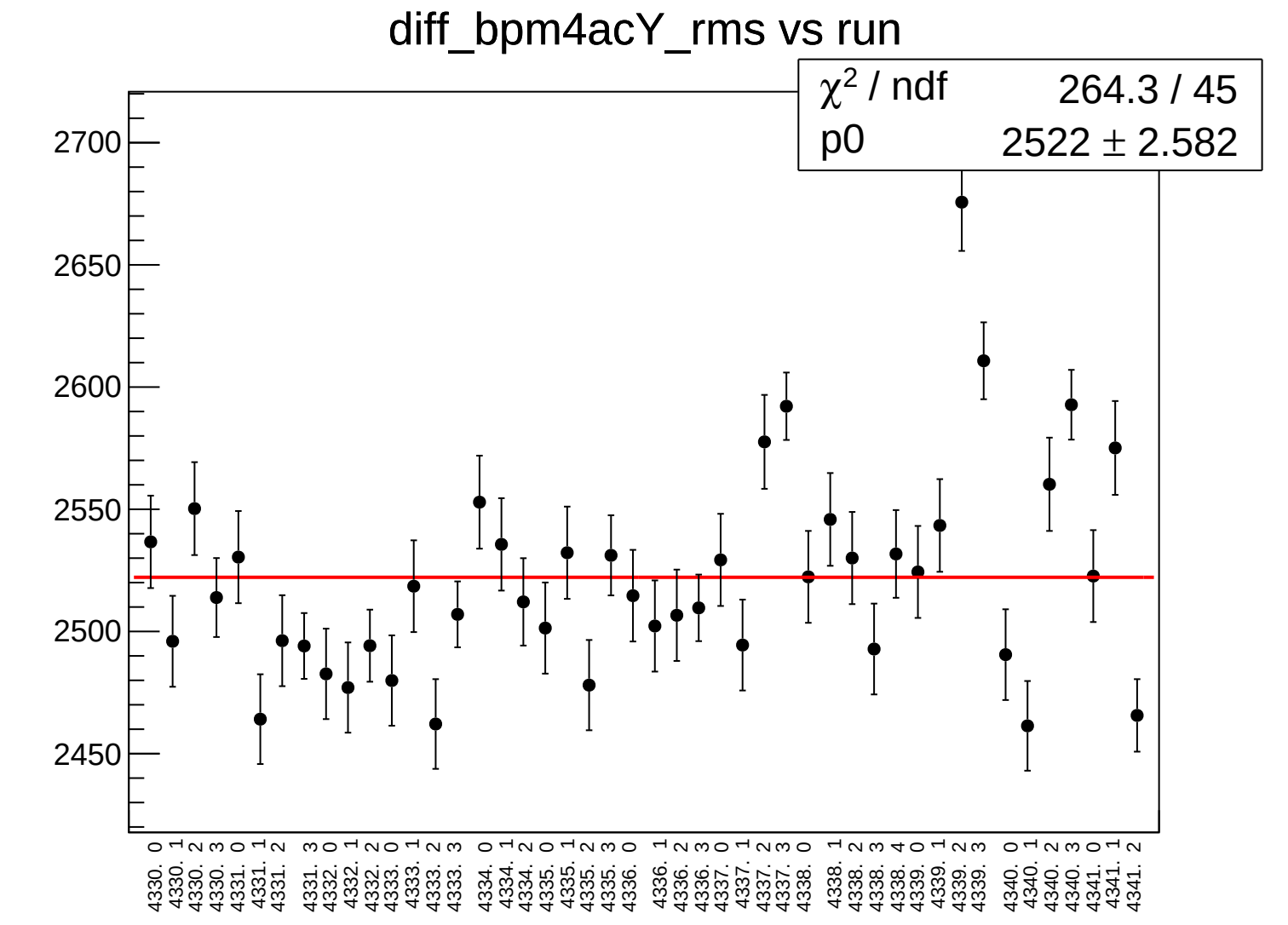

diff_bpm4acX_mean vs run
χ² / ndf 39.82 / 45
p0 3.091 ± 2.729
pull
Entries 46
Mean 1093
Std Dev 1077

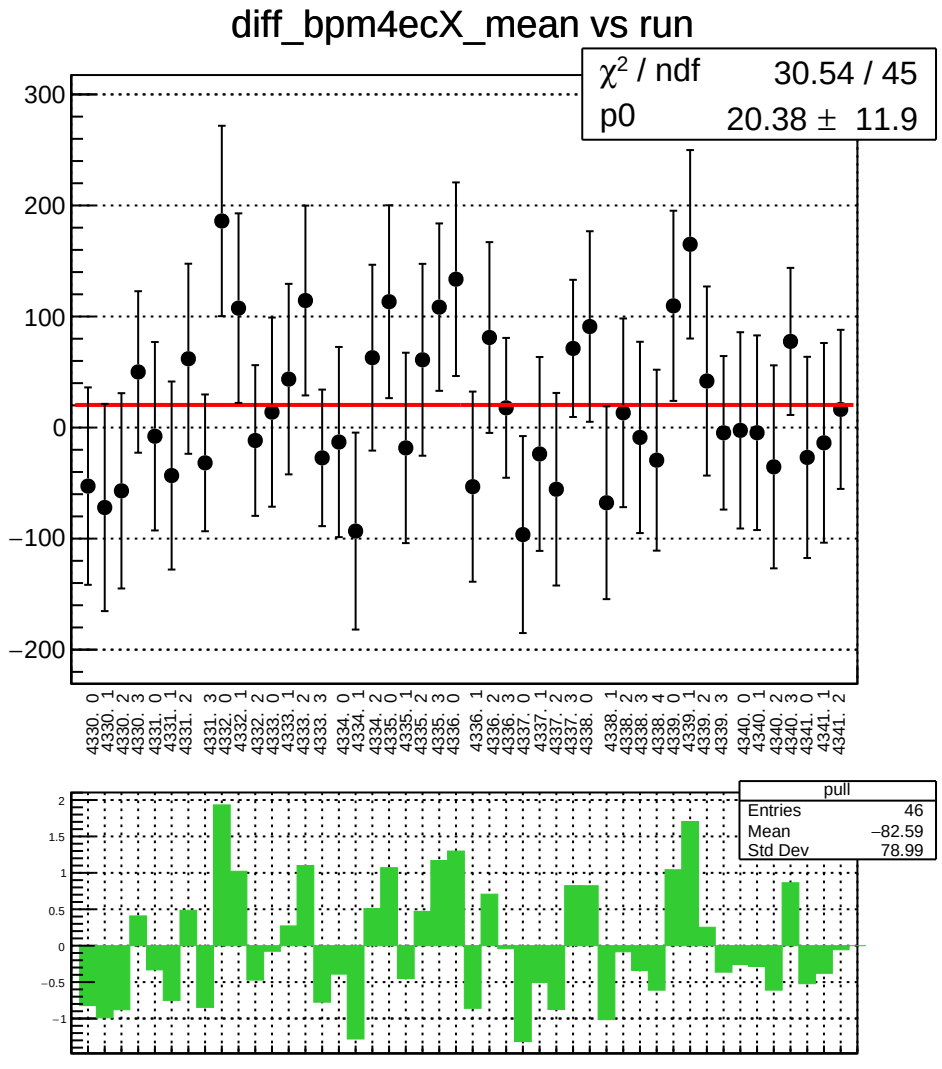

pull1D
Entries 46
Mean 0.001212
Std Dev 0.9304

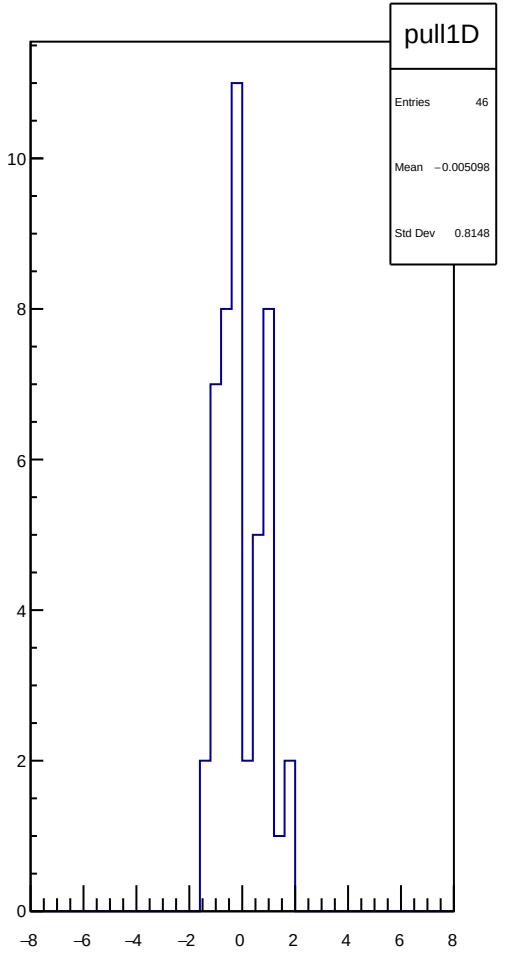

diff_bpm4acX_rms vs run
χ² / ndf 103.2 / 45
p0 1885 ± 1.93
1940
1920
1900
1880
1860
1840
1820
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

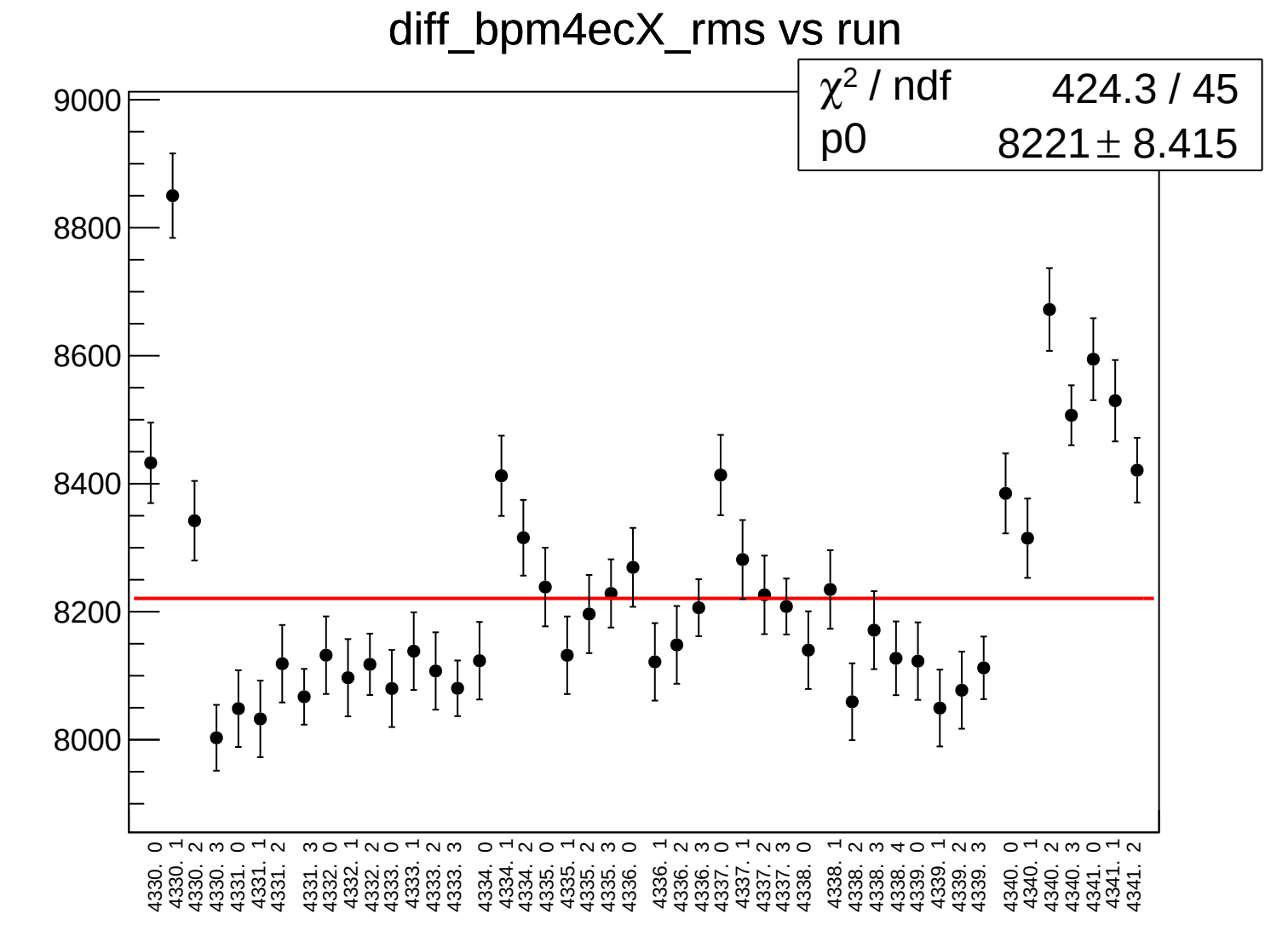

diff_bpm4acY_mean vs run
χ² / ndf 24.09 / 45
p0 −0.5336 ± 3.651
pull
Entries 46
Mean 2299
Std Dev 2274


pull1D
Entries 46
Mean 0.0007957
Std Dev 0.7237


diff_bpm4acY_rms vs run
χ² / ndf 264.3 / 45
p0 2522 ± 2.582
2700
2650
2600
2550
2500
2450
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


diff_bpm4ecX_mean vs run
χ² / ndf 30.54 / 45
p0 20.38 ± 11.9
pull
Entries 46
Mean −82.59
Std Dev 78.99


pull1D
Entries 46
Mean −0.005098
Std Dev 0.8148


diff_bpm4ecX_rms vs run
χ² / ndf 424.3 / 45
p0 8221 ± 8.415
9000
8800
8600
8400
8200
8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
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4335. 1
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4336. 1
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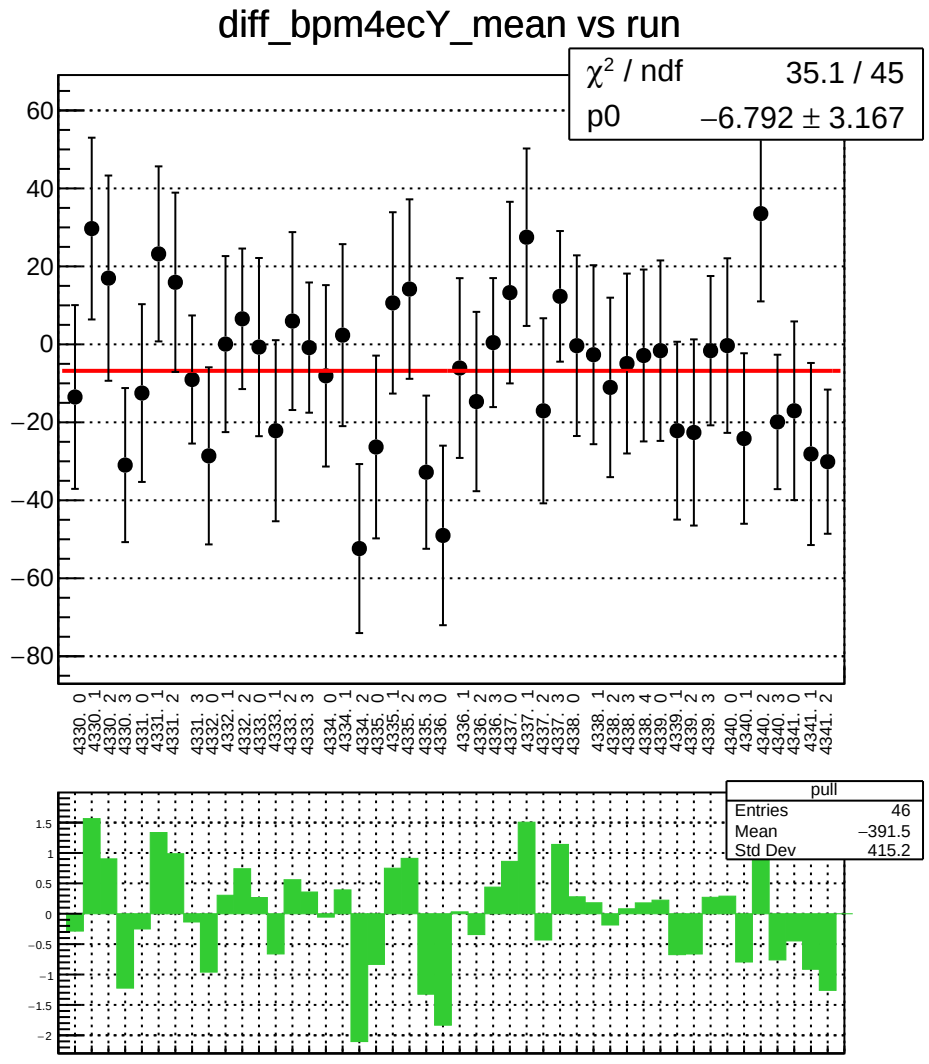
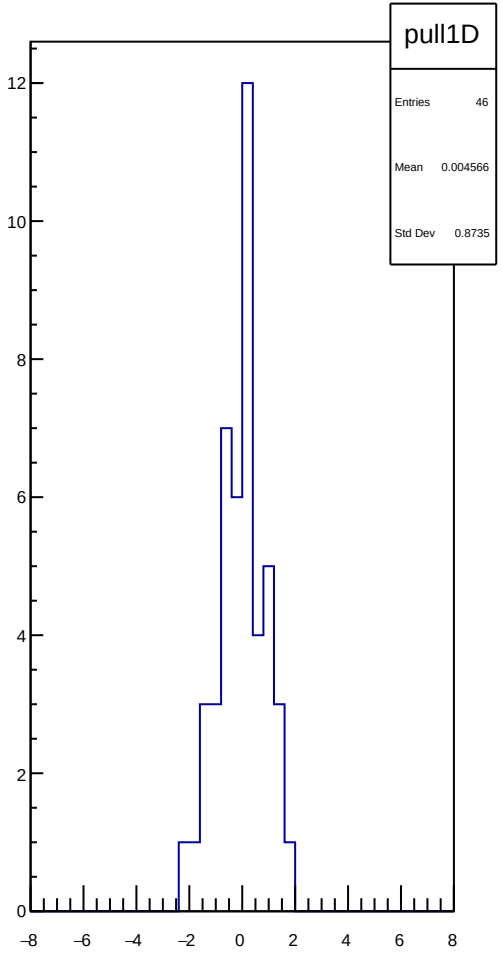
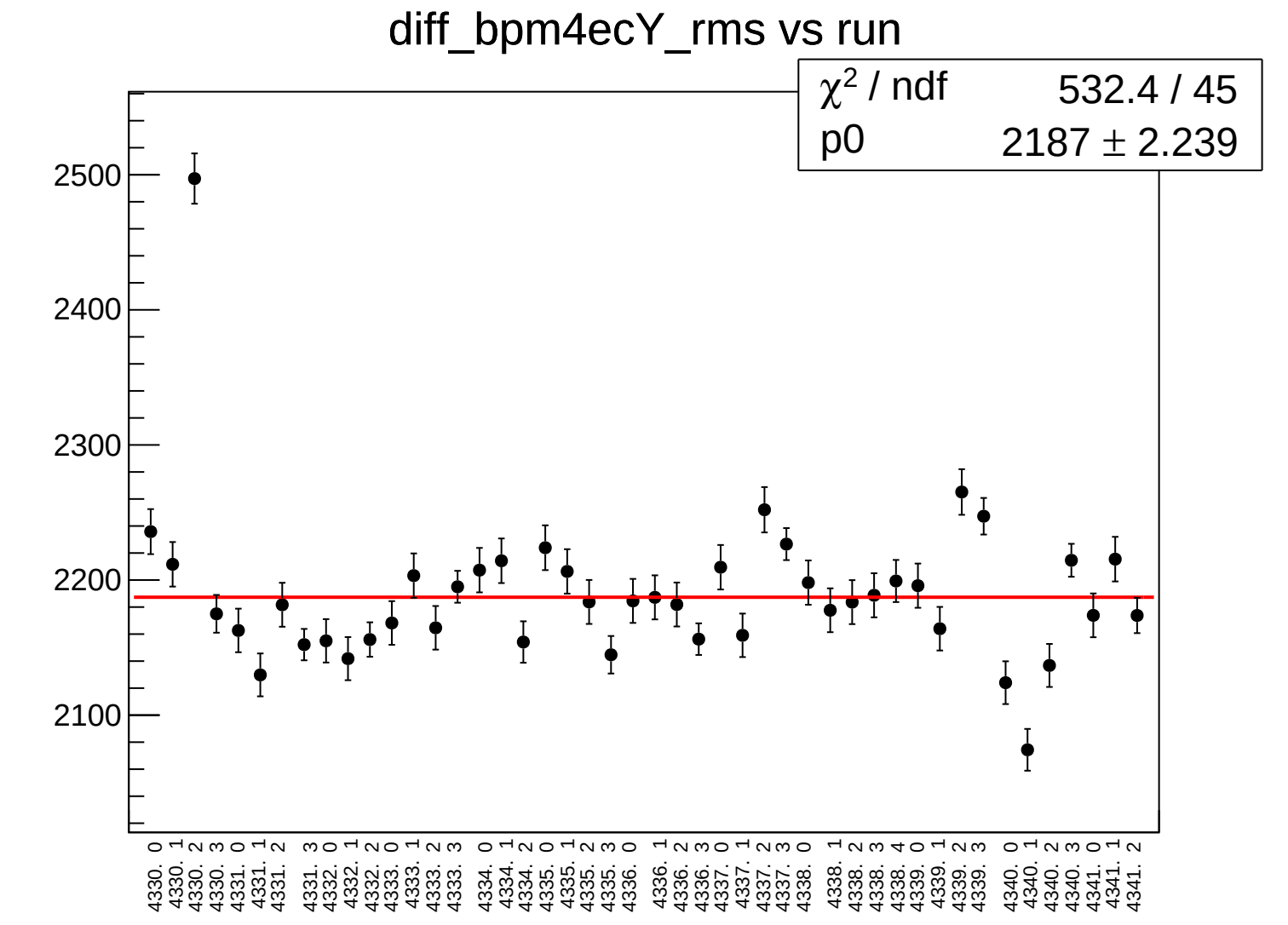
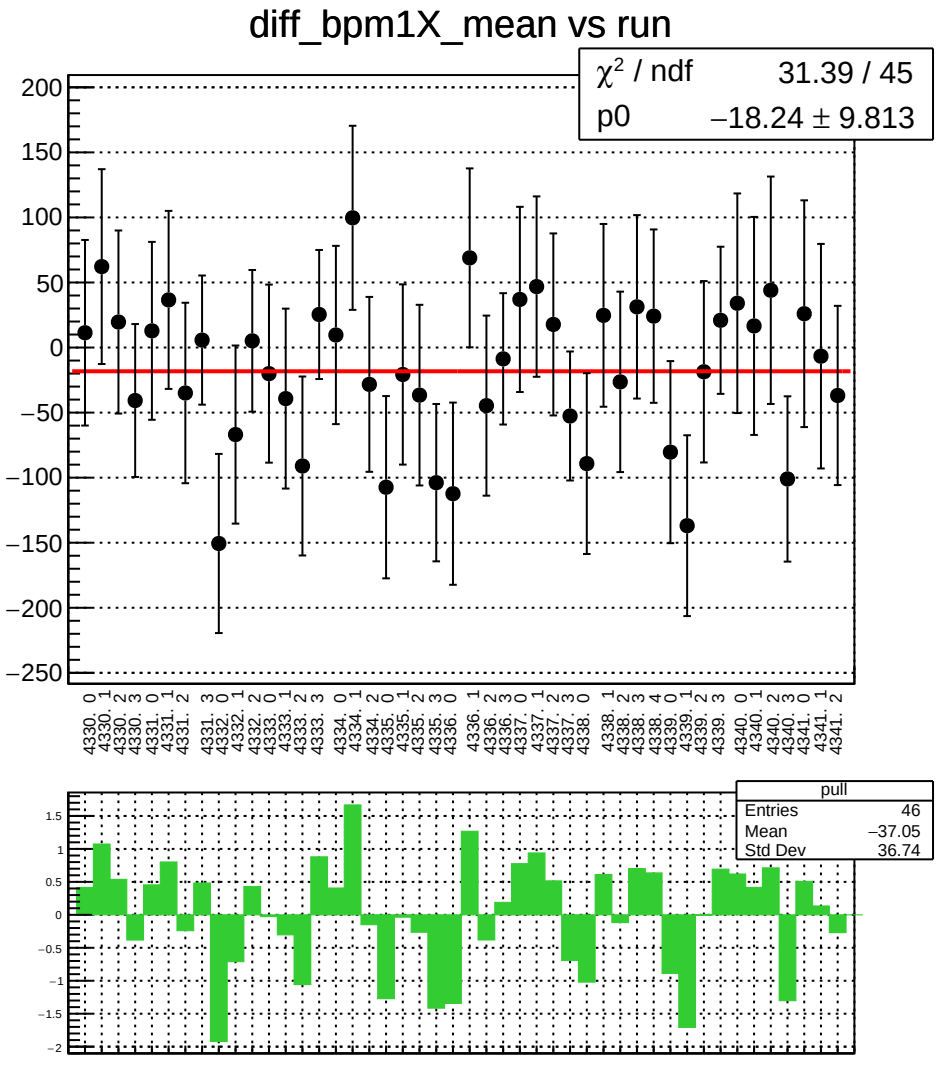
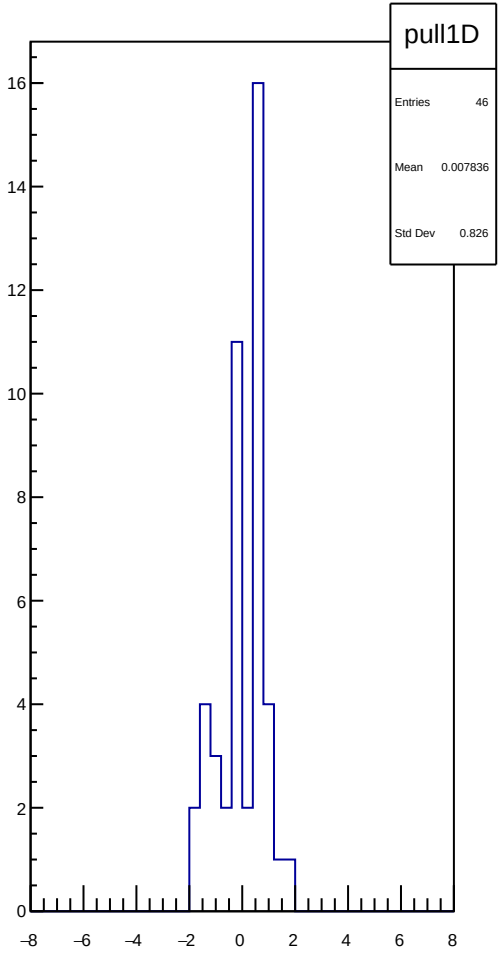
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

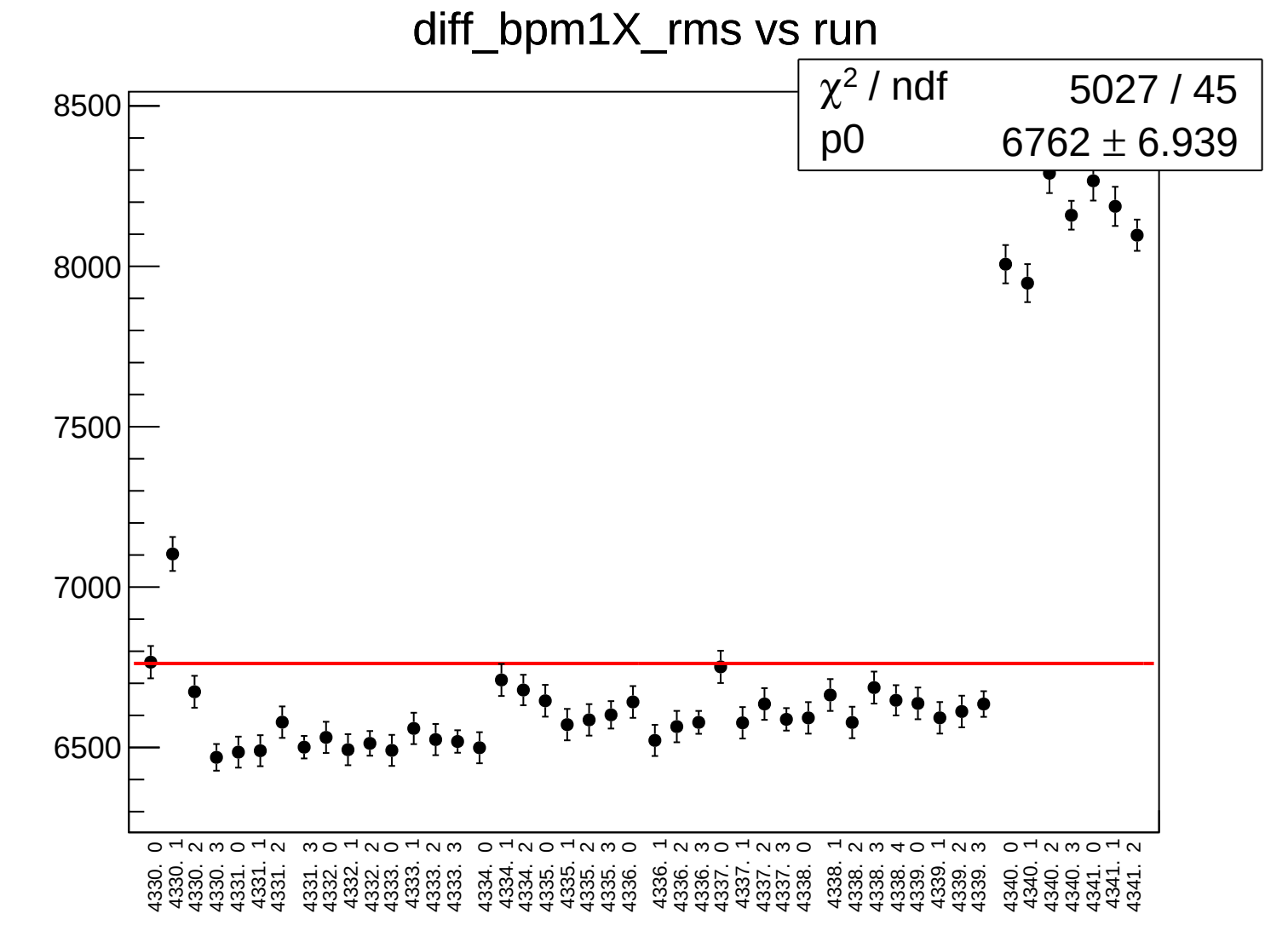

diff_bpm4ecY_mean vs run
χ² / ndf 35.1 / 45
p0 −6.792 ± 3.167
pull
Entries 46
Mean −391.5
Std Dev 415.2

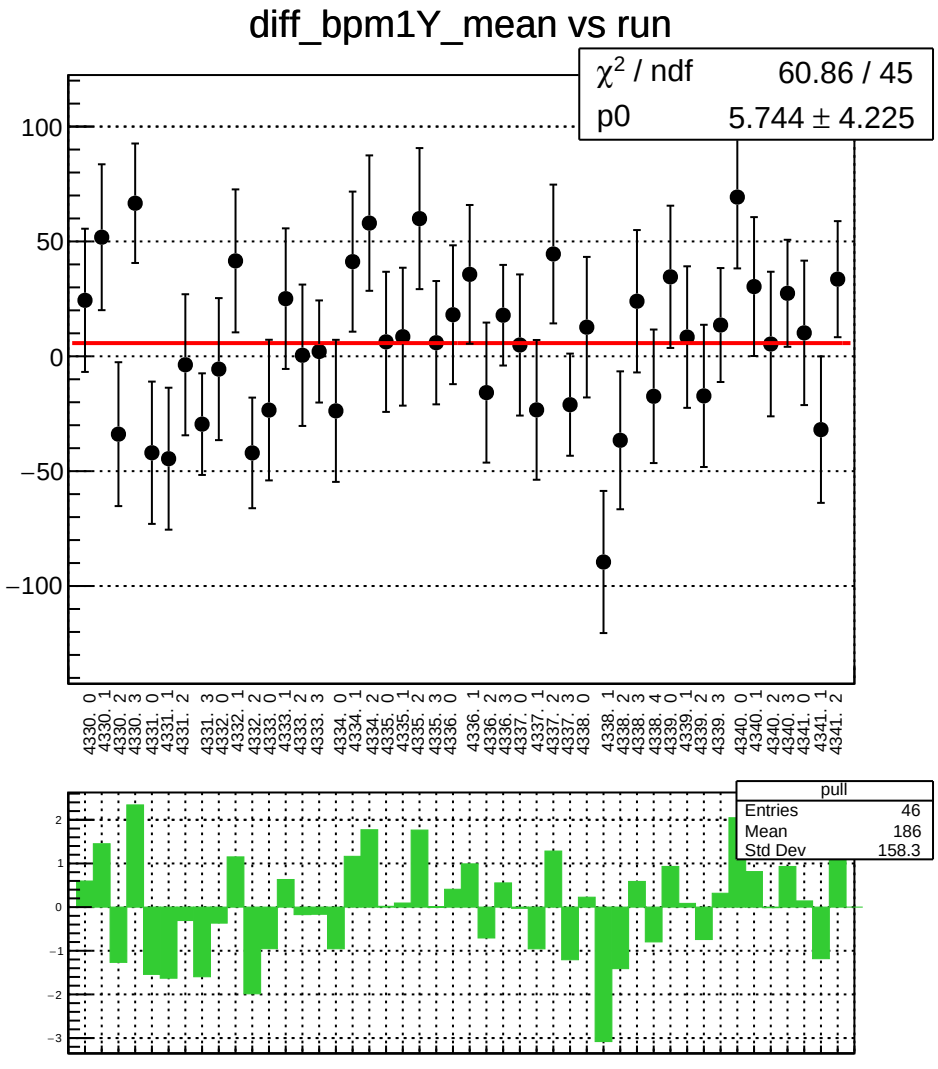

pull1D
Entries 46
Mean 0.004566
Std Dev 0.8735

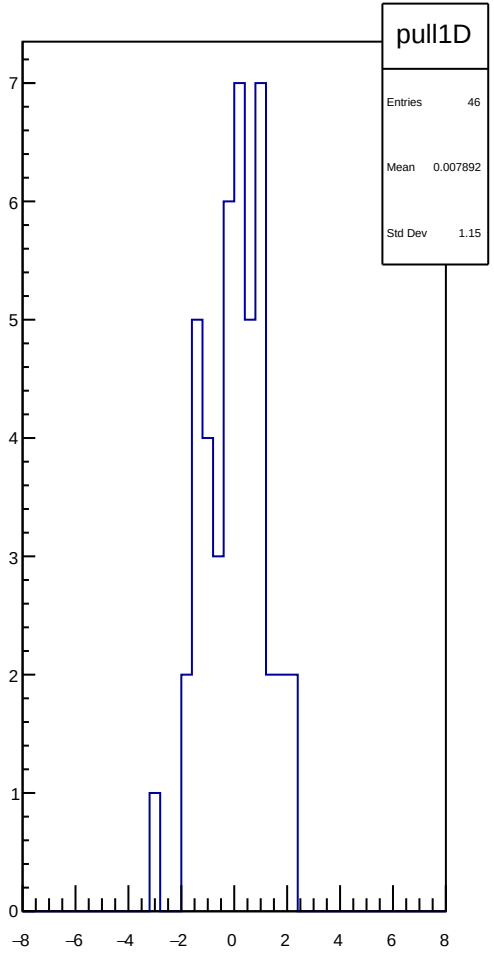

diff_bpm4ecY_rms vs run
χ² / ndf 532.4 / 45
p0 2187 ± 2.239
2500
2400
2300
2200
2100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

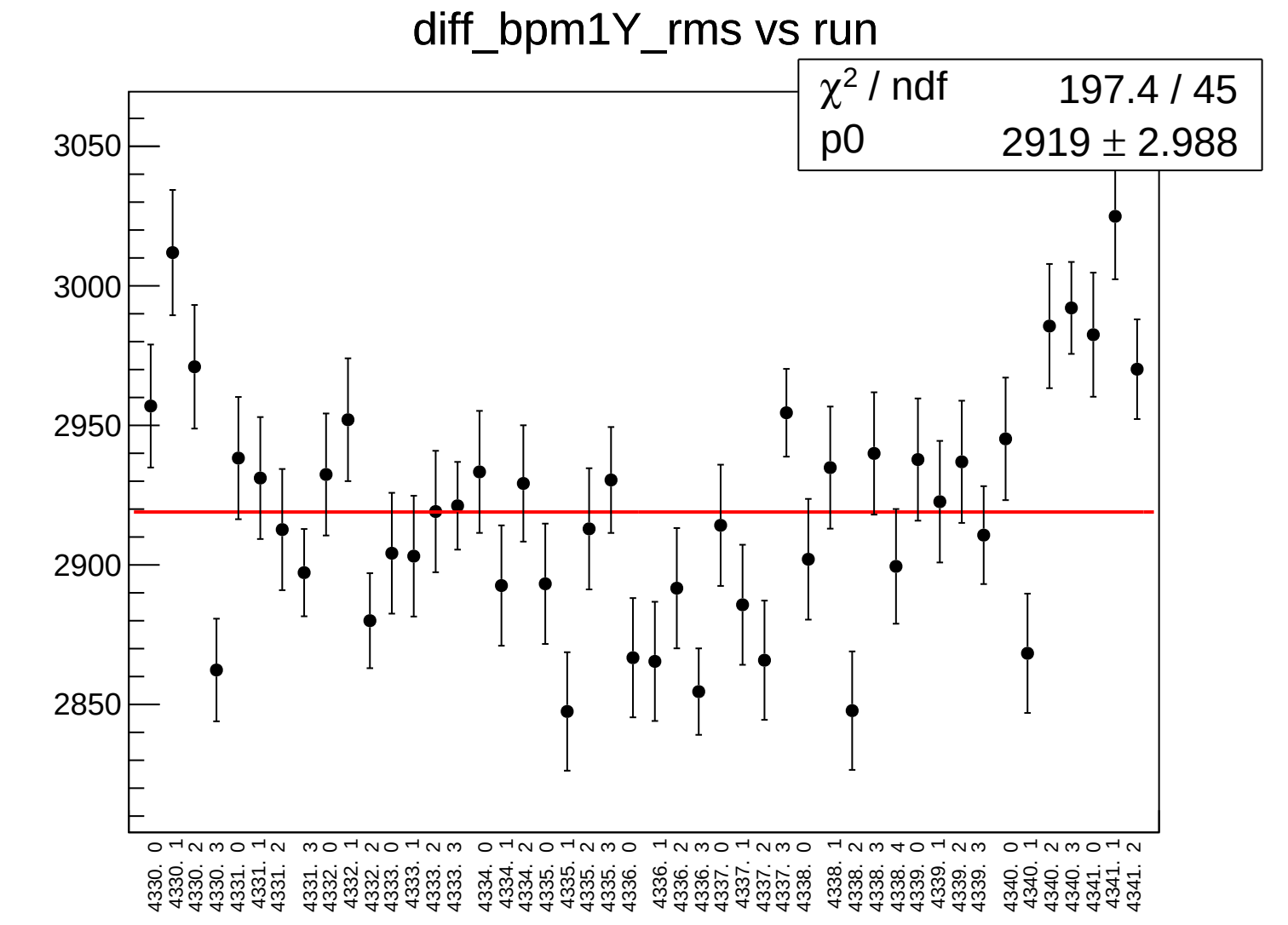

diff_bpm1X_mean vs run
χ² / ndf 31.39 / 45
p0 −18.24 ± 9.813
pull
Entries 46
Mean −37.05
Std Dev 36.74

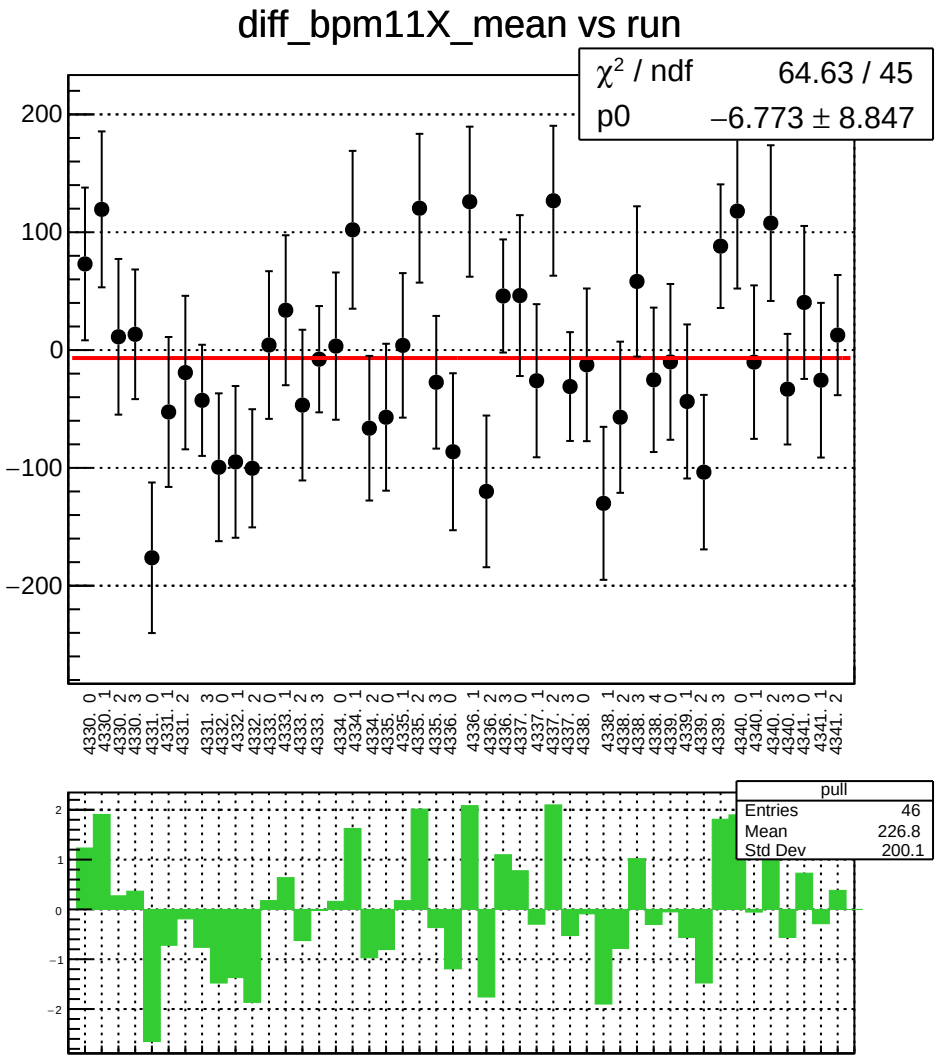

pull1D
Entries 46
Mean 0.007836
Std Dev 0.826

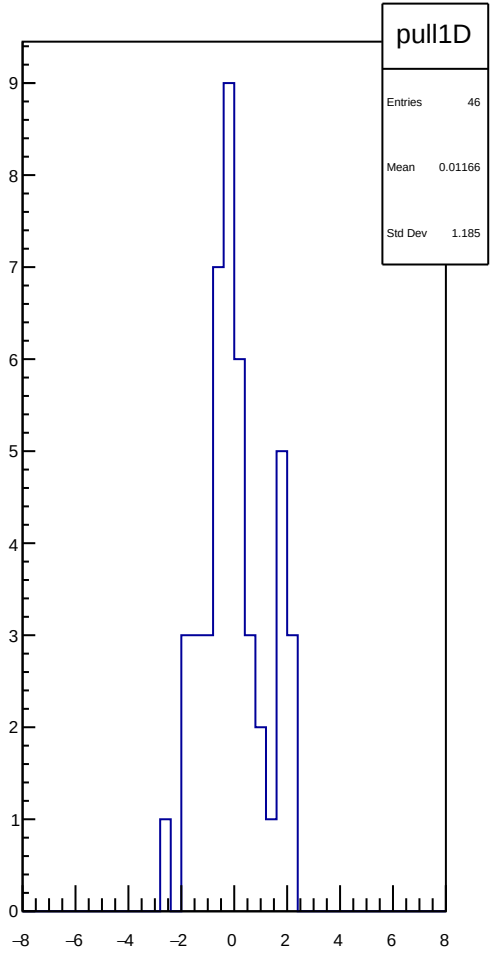

diff_bpm1X_rms vs run
χ² / ndf 5027 / 45
p0 6762 ± 6.939
8500
8000
7500
7000
6500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

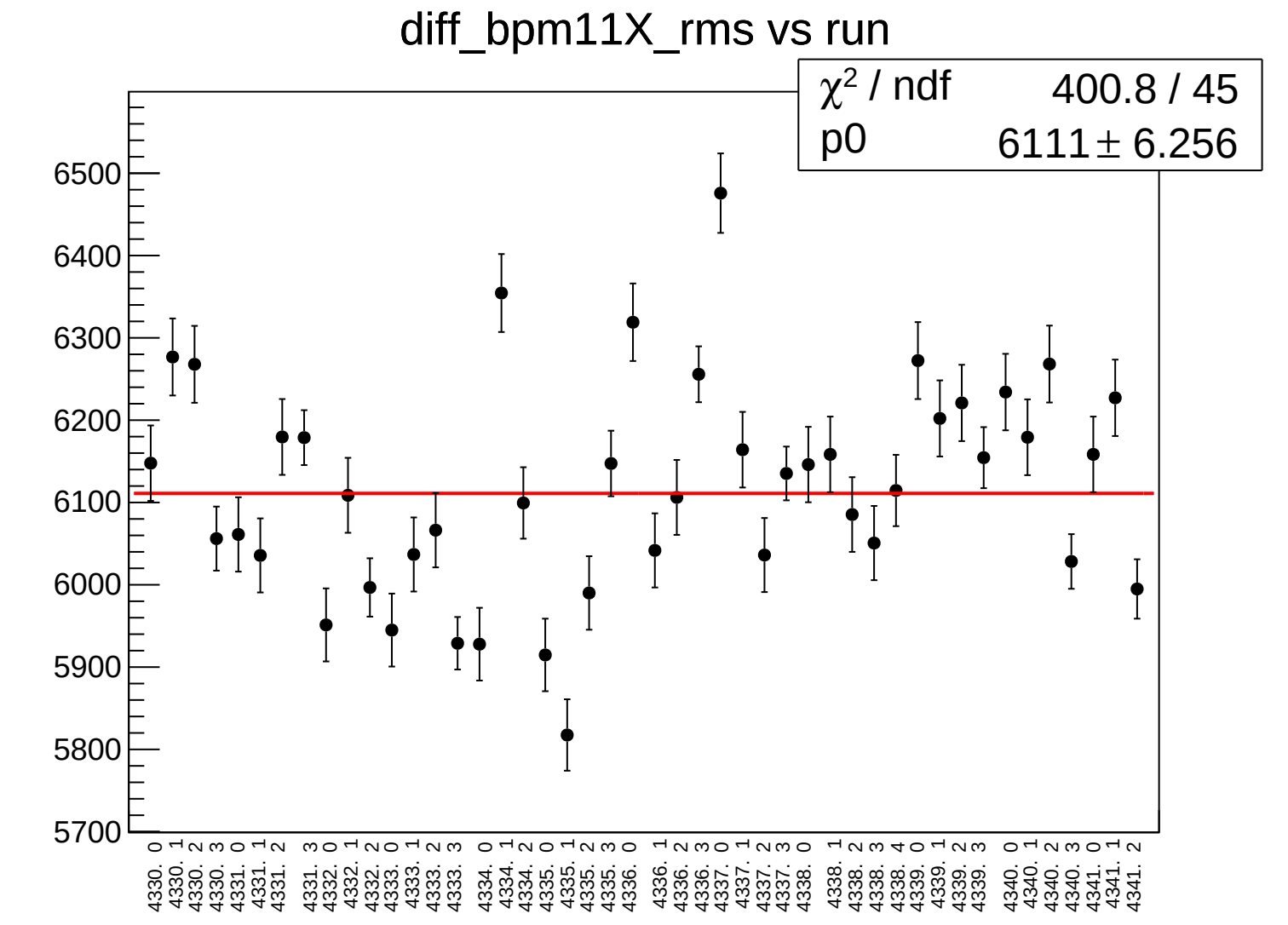

diff_bpm1Y_mean vs run
χ^2 / ndf 60.86 / 45
p0 5.744 ± 4.225
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 186
Std Dev 158.3
2
1
0
−1
−2
−3

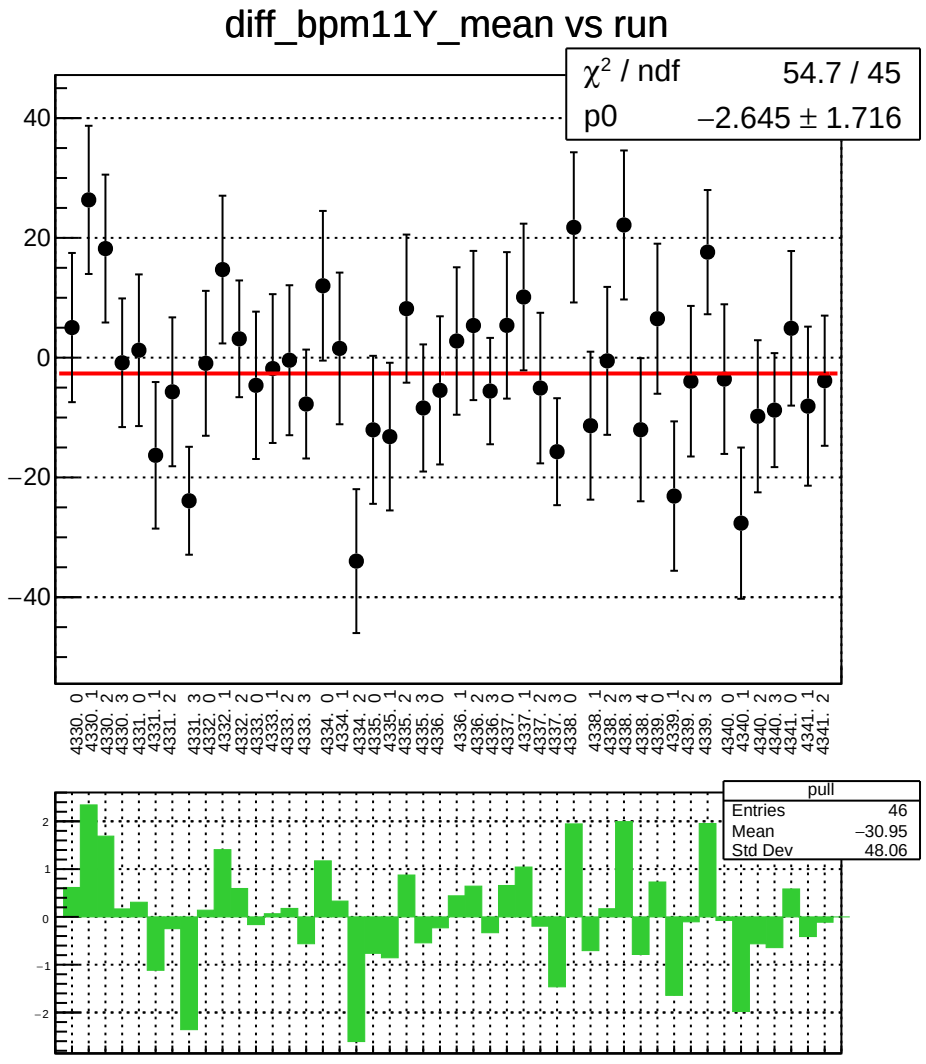

pull1D
Entries 46
Mean 0.007892
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

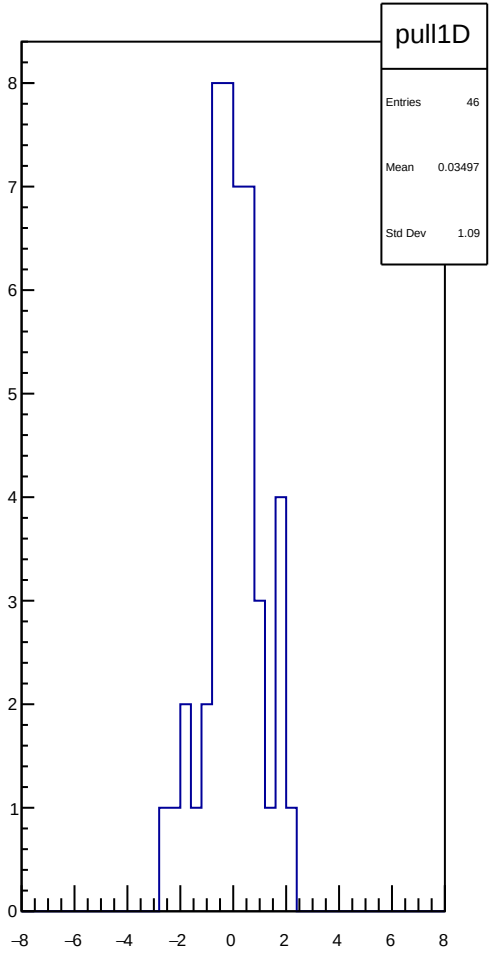

diff_bpm1Y_rms vs run
χ² / ndf 197.4 / 45
p0 2919 ± 2.988
3050
3000
2950
2900
2850
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

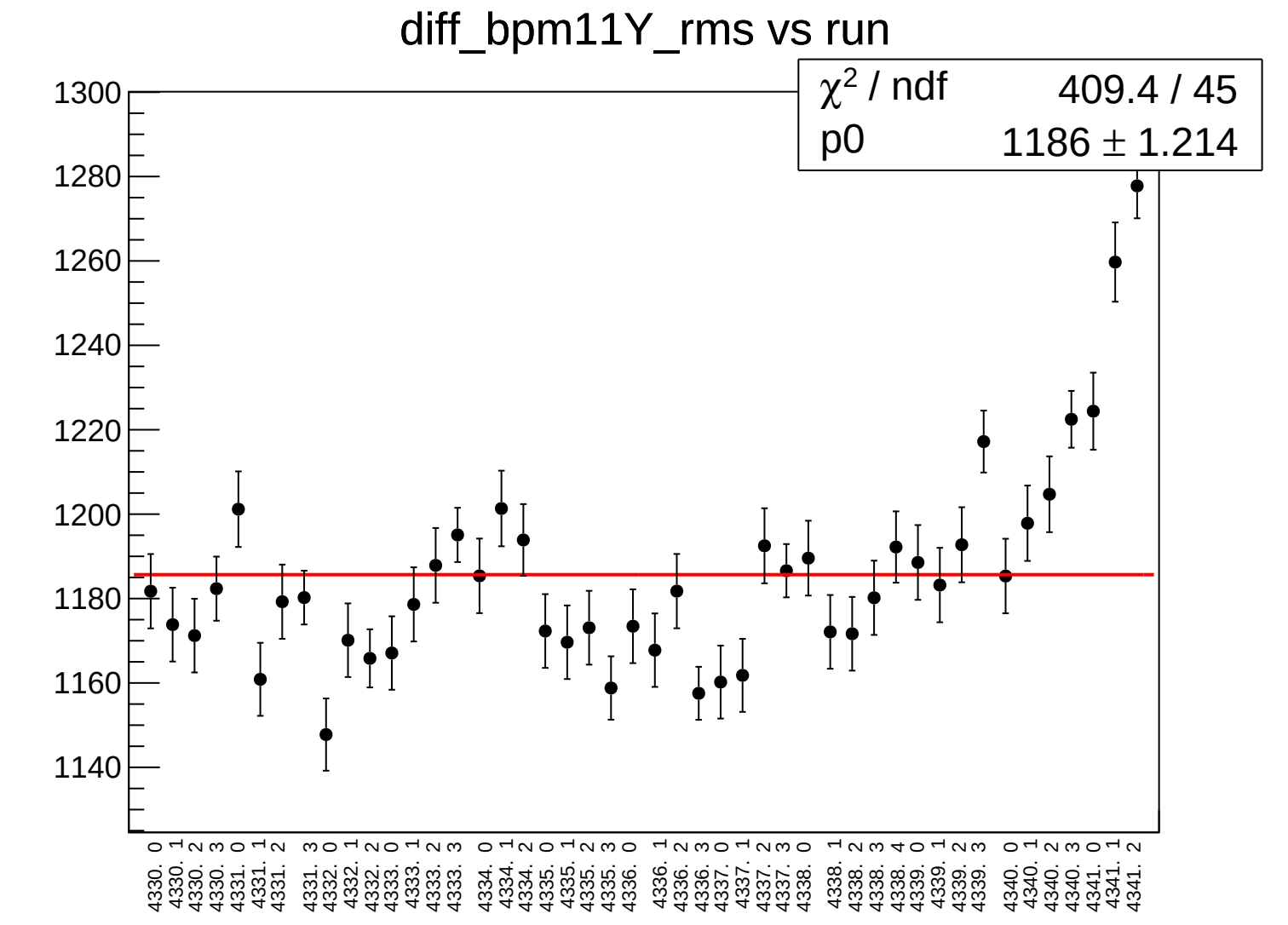

diff_bpm11X_mean vs run
χ² / ndf 64.63 / 45
p0 −6.773 ± 8.847
200
100
0
−100
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 226.8
Std Dev 200.1
2
1
0
−1
−2

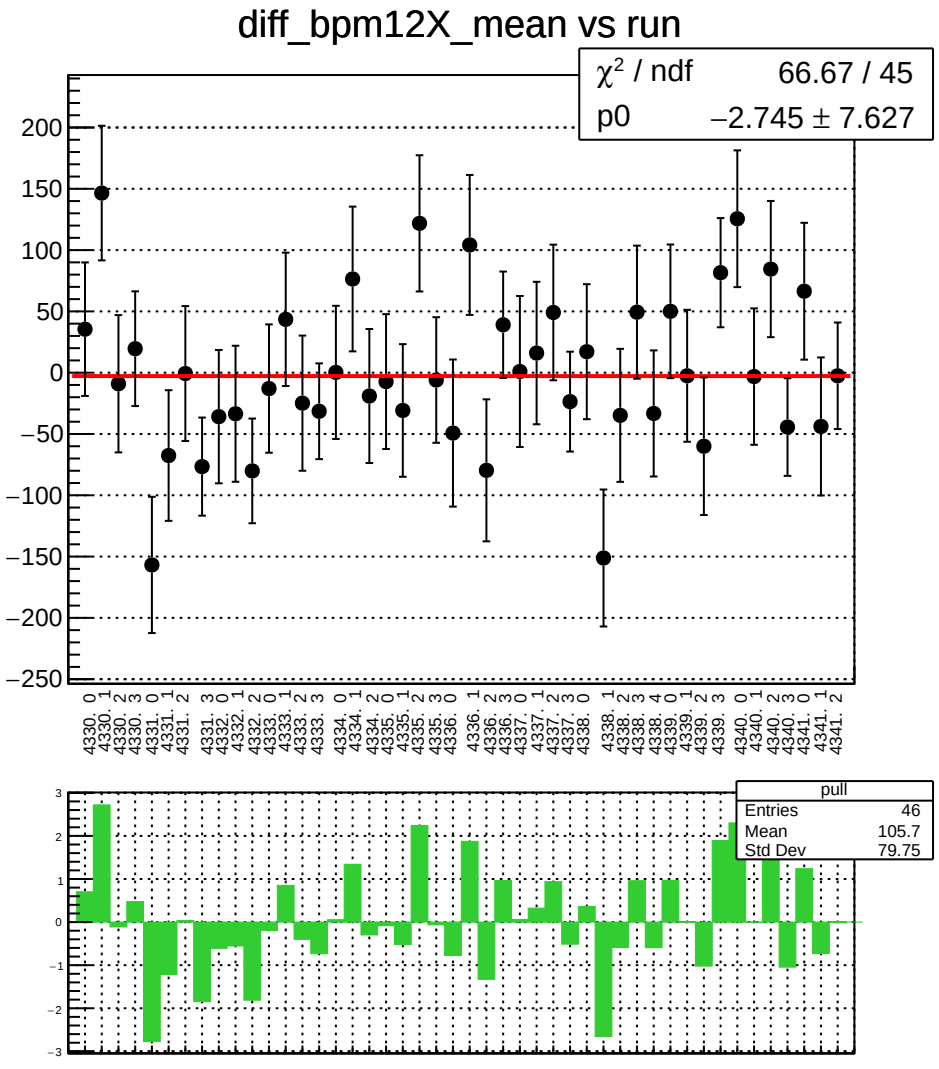

pull1D
Entries 46
Mean 0.01166
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

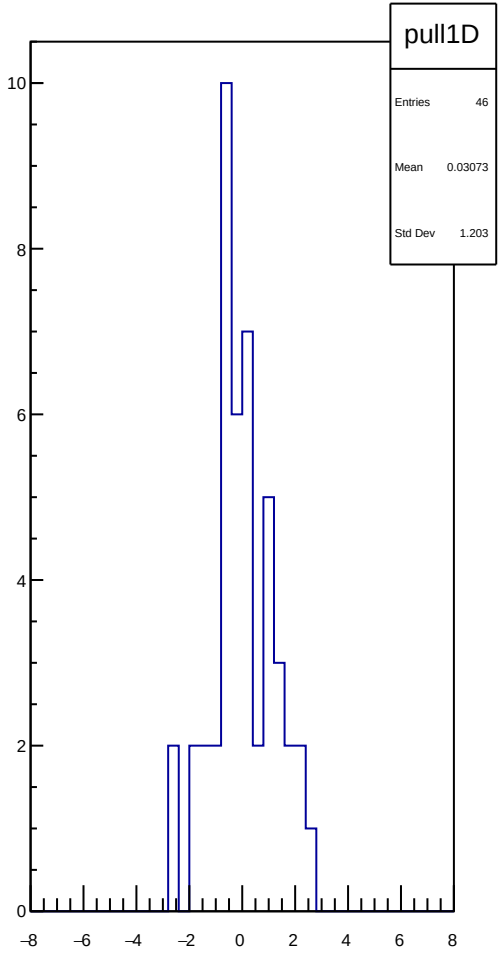

diff_bpm11X_rms vs run
χ² / ndf 400.8 / 45
p0 6111 ± 6.256
6500
6400
6300
6200
6100
6000
5900
5800
5700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

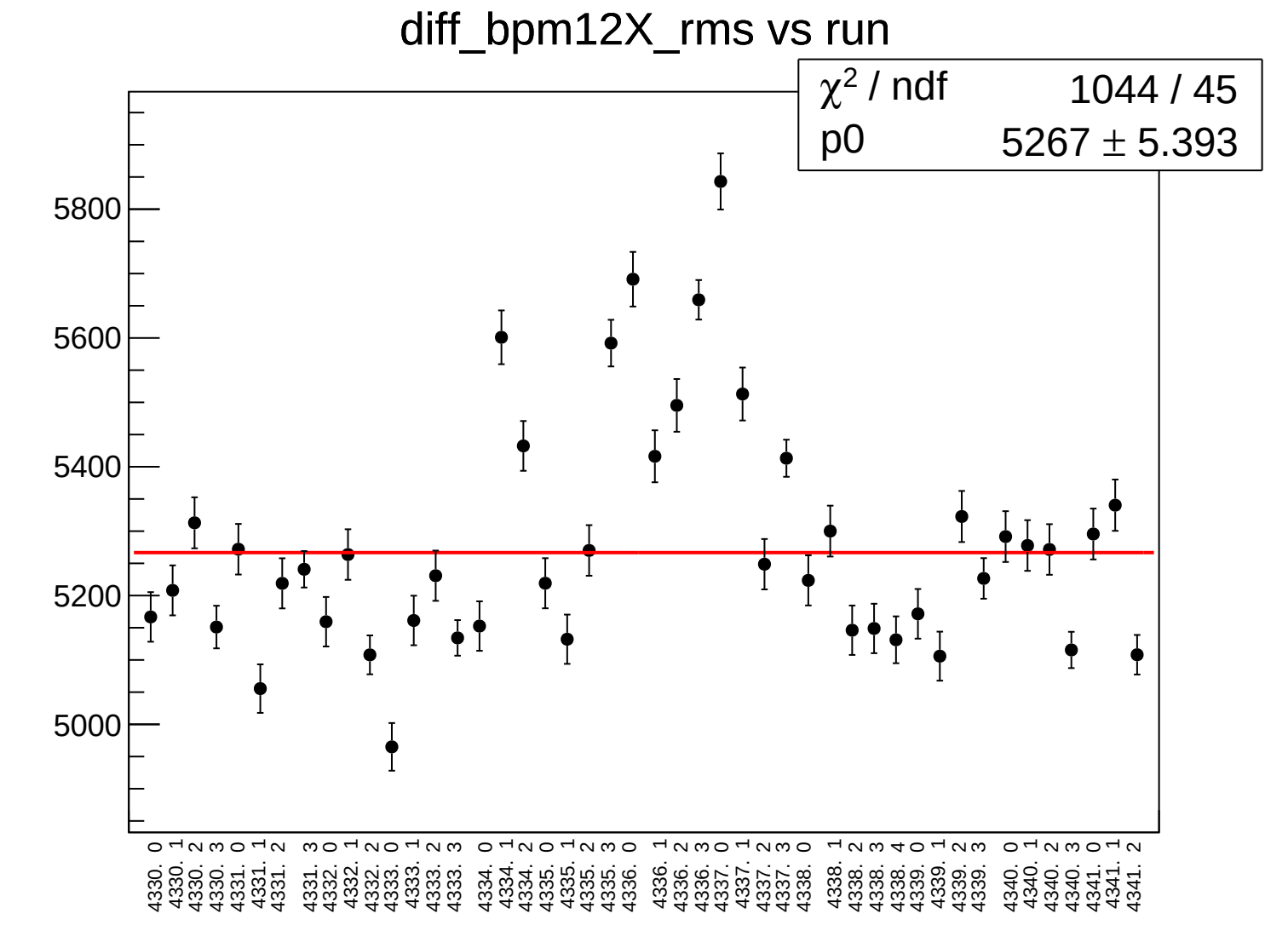

diff_bpm11Y_mean vs run
χ² / ndf 54.7 / 45
p0 −2.645 ± 1.716
pull
Entries 46
Mean −30.95
Std Dev 48.06

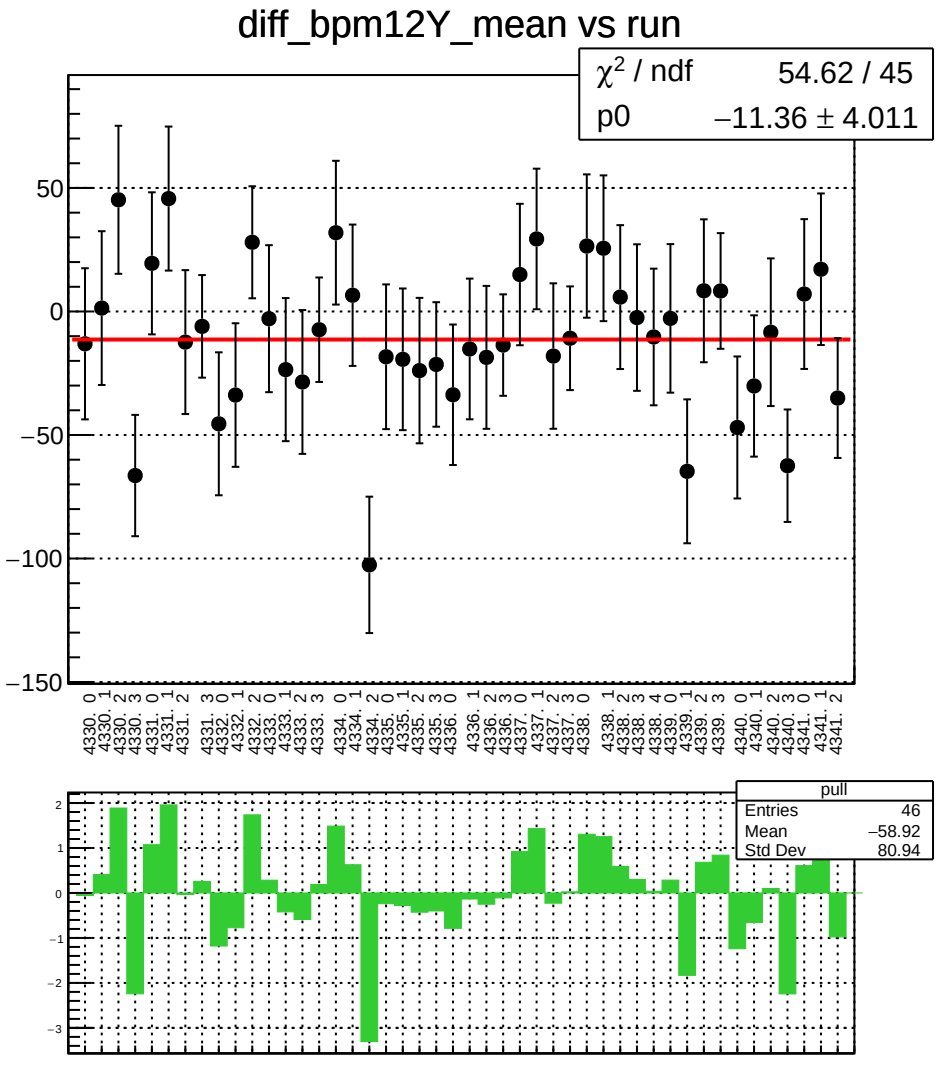

pull1D
Entries 46
Mean 0.03497
Std Dev 1.09

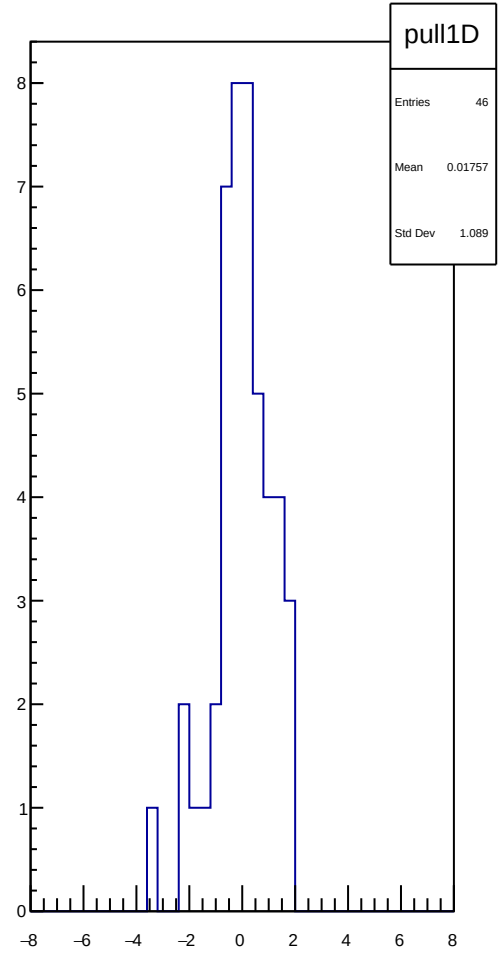

diff_bpm11Y_rms vs run
χ² / ndf 409.4 / 45
p0 1186 ± 1.214
1300
1280
1260
1240
1220
1200
1180
1160
1140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

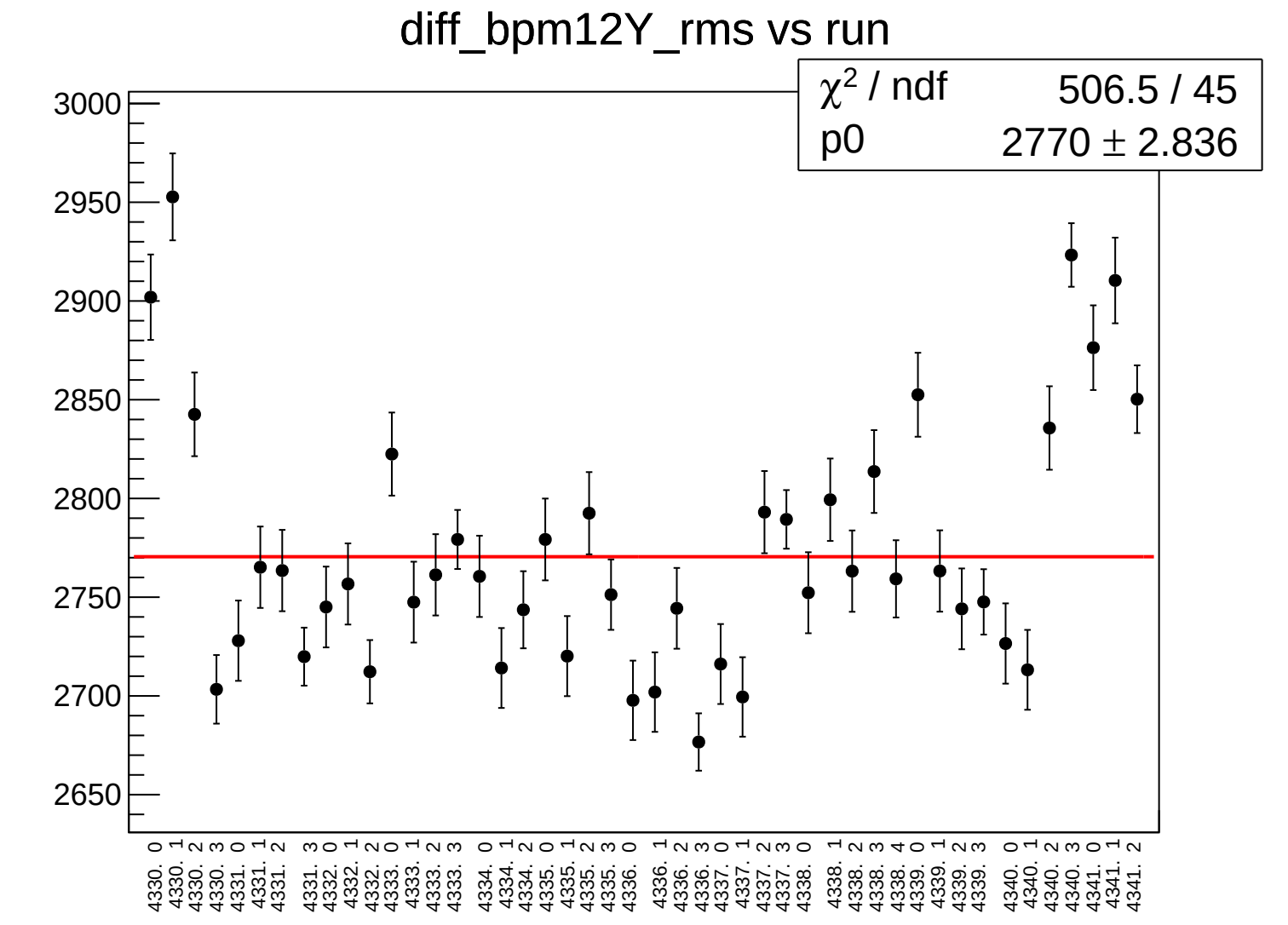

diff_bpm12X_mean vs run
χ² / ndf 66.67 / 45
p0 −2.745 ± 7.627
pull
Entries 46
Mean 105.7
Std Dev 79.75

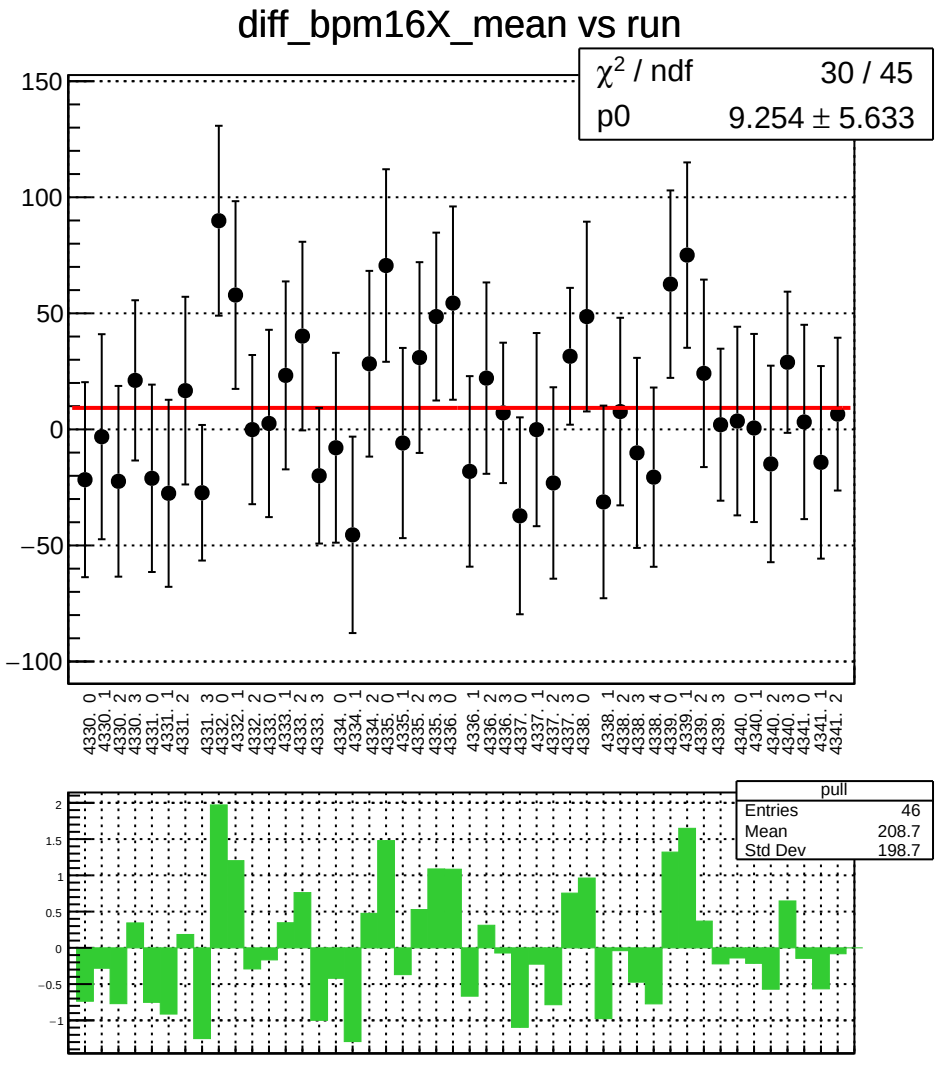

pull1D
Entries 46
Mean 0.03073
Std Dev 1.203

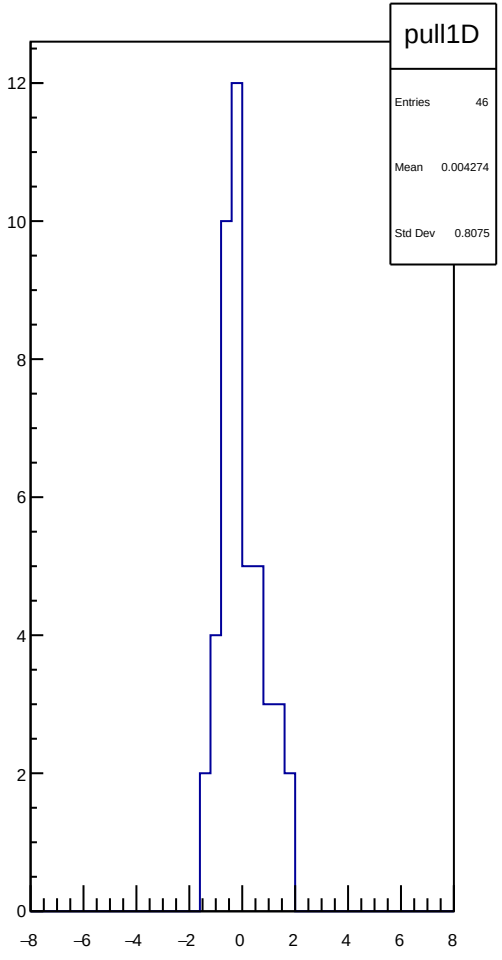

diff_bpm12X_rms vs run
χ² / ndf 1044 / 45
p0 5267 ± 5.393
5800
5600
5400
5200
5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

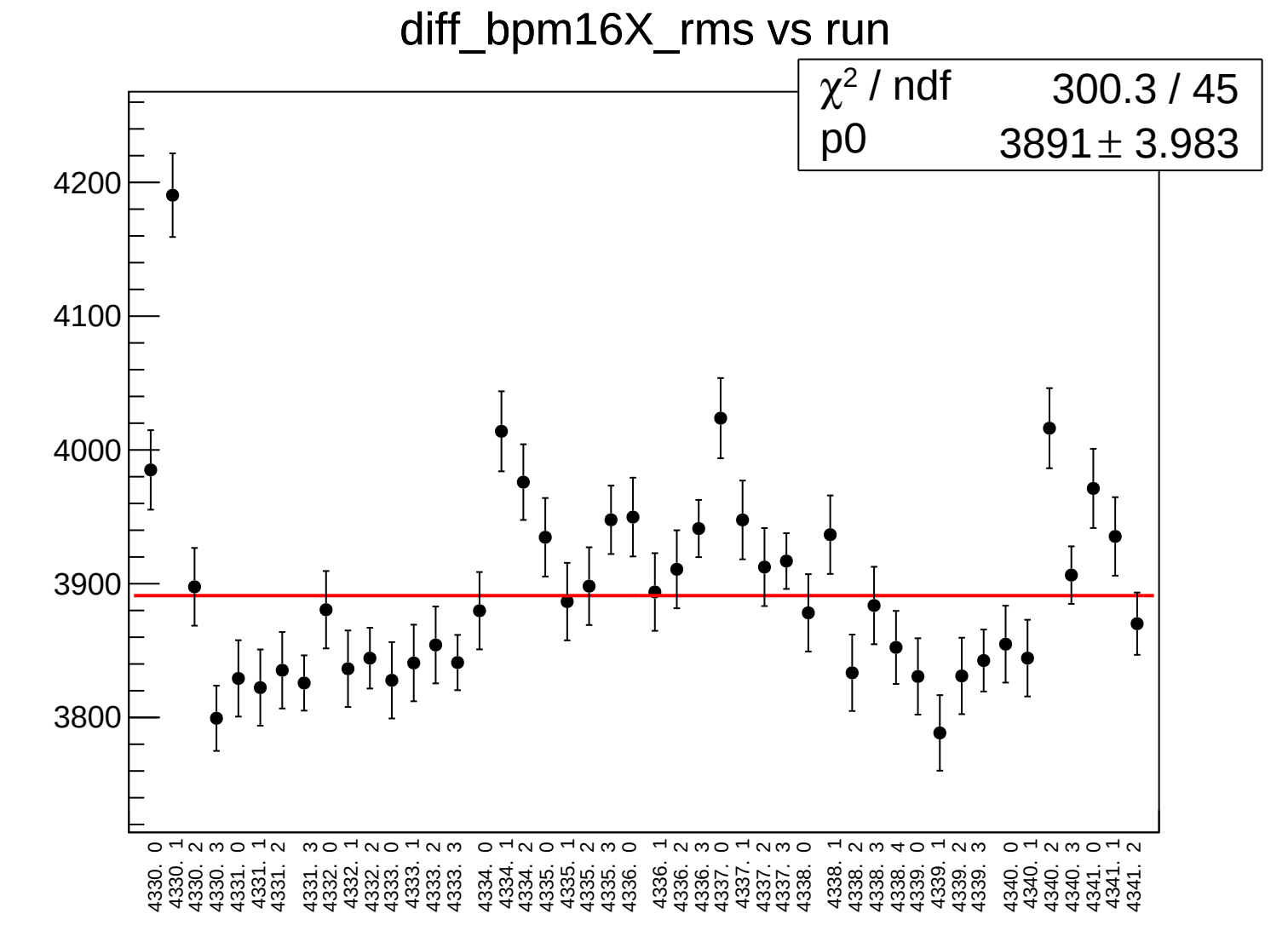

diff_bpm12Y_mean vs run
χ² / ndf 54.62 / 45
p0 −11.36 ± 4.011
50
0
−50
−100
−150
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −58.92
Std Dev 80.94
2
1
0
−1
−2
−3

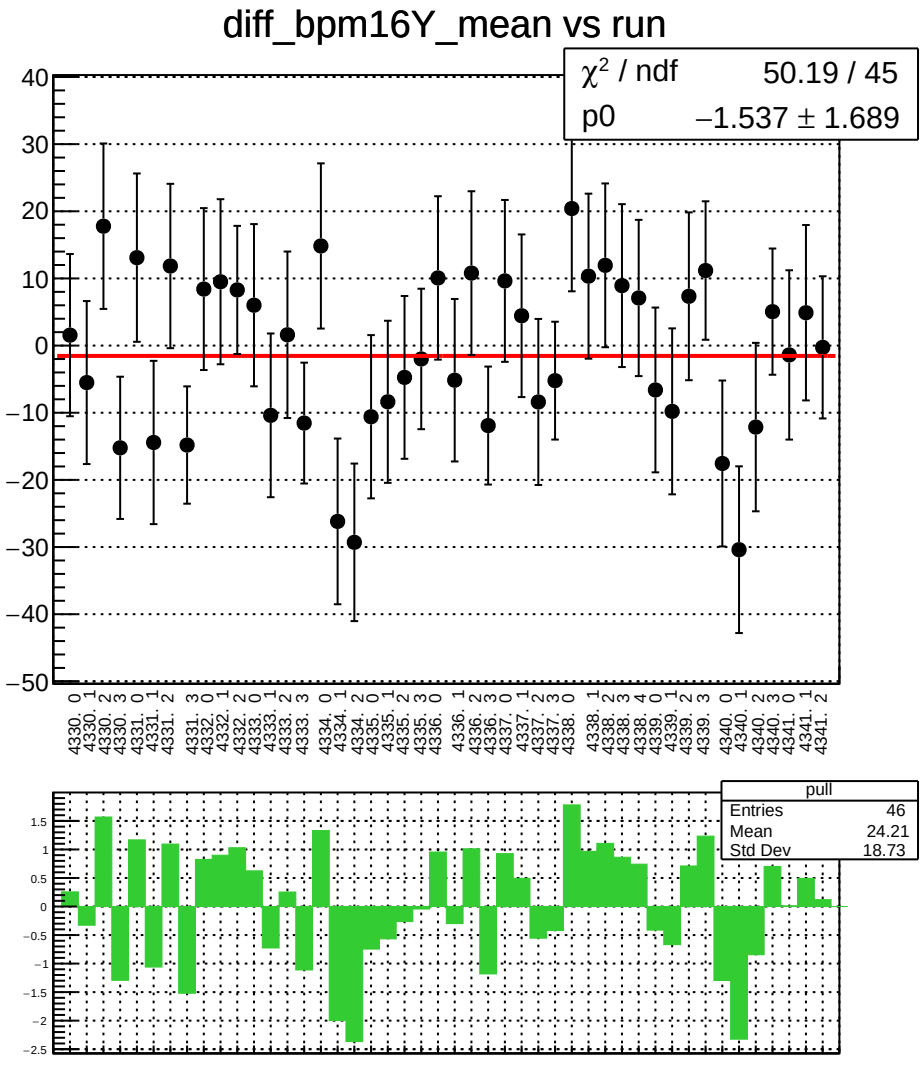

pull1D
Entries 46
Mean 0.01757
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

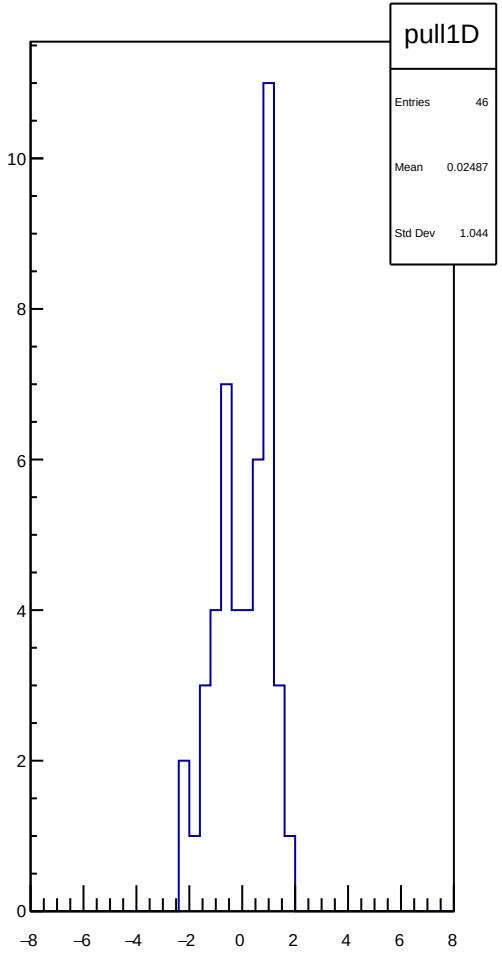

diff_bpm12Y_rms vs run
χ² / ndf 506.5 / 45
p0 2770 ± 2.836
3000
2950
2900
2850
2800
2750
2700
2650
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

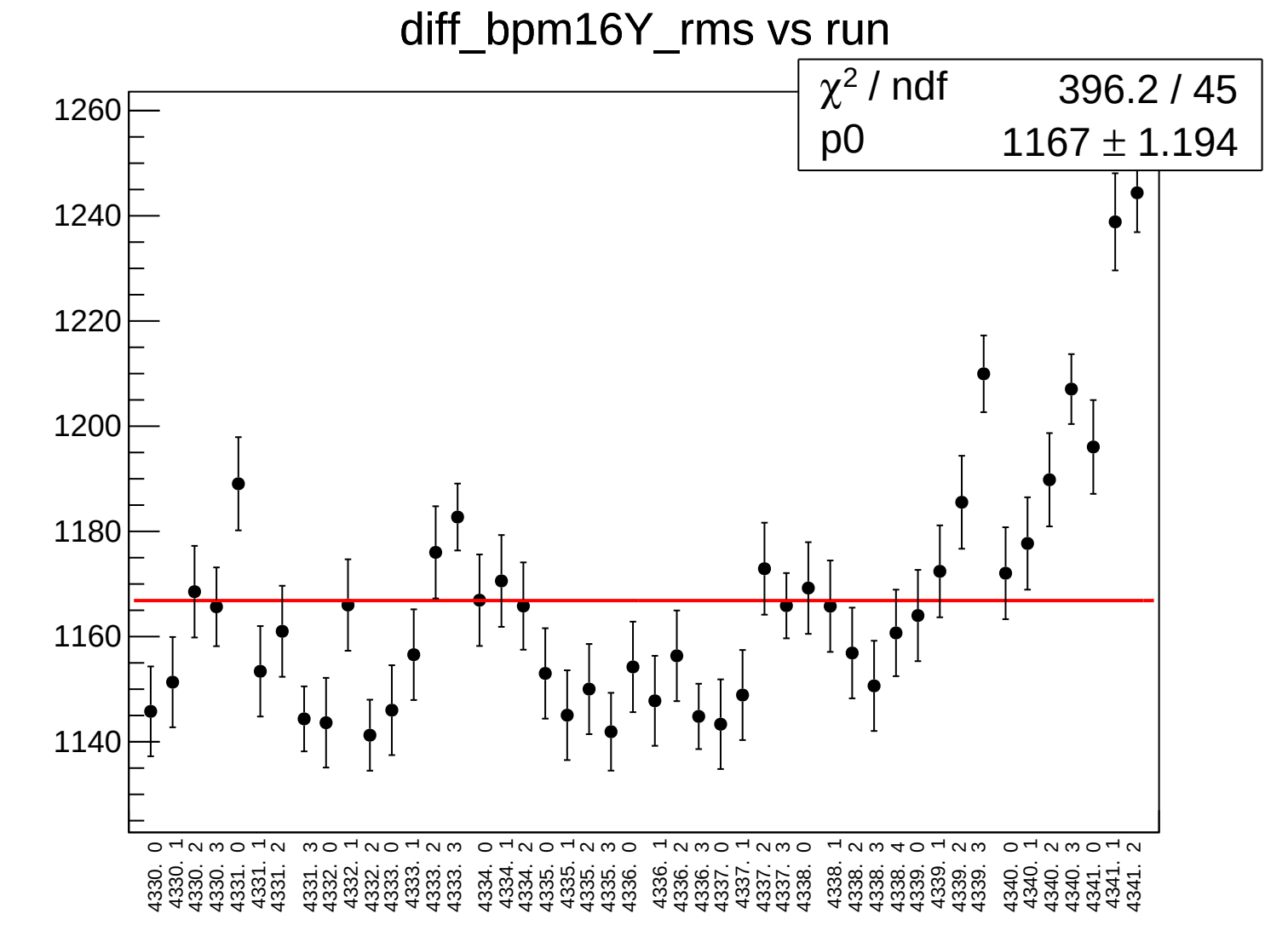

diff_bpm16X_mean vs run
χ² / ndf 30 / 45
p0 9.254 ± 5.633
150
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 208.7
Std Dev 198.7
2
1.5
1
0.5
0
−0.5
−1

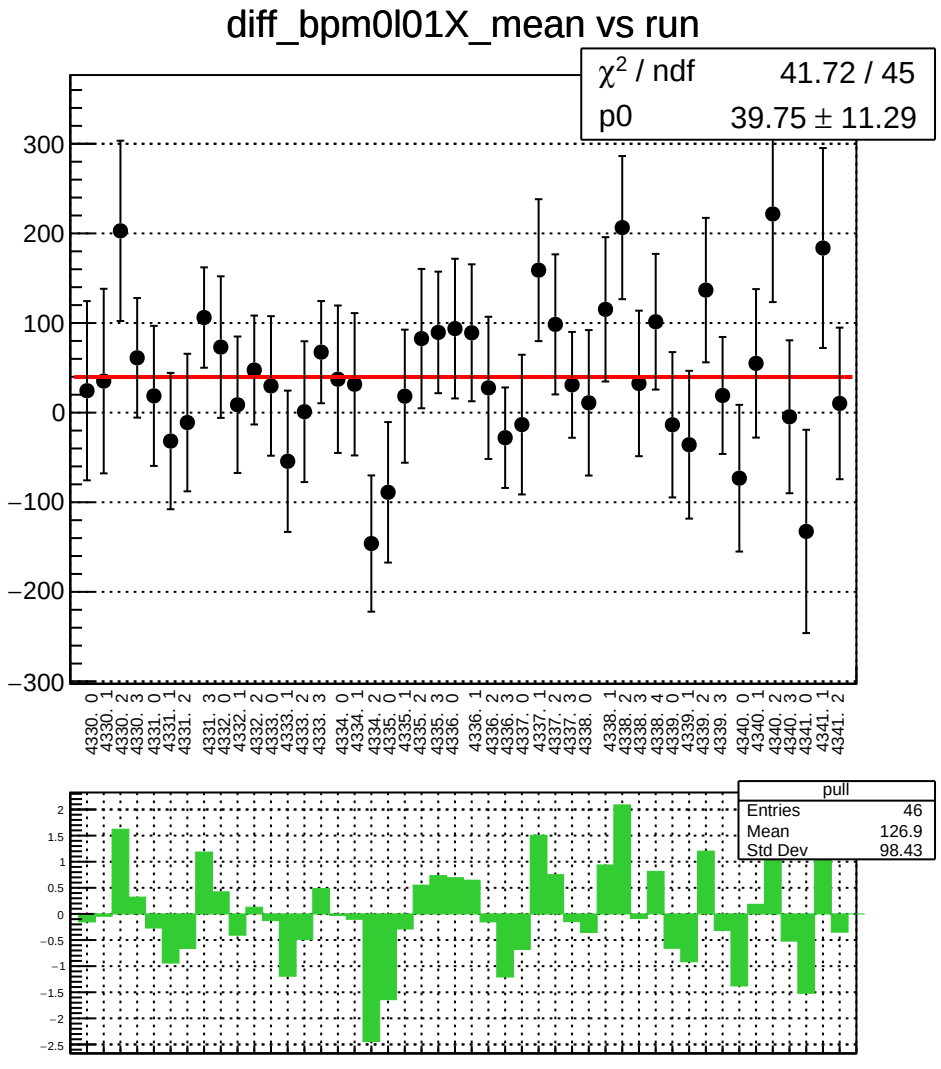

pull1D
Entries 46
Mean 0.004274
Std Dev 0.8075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

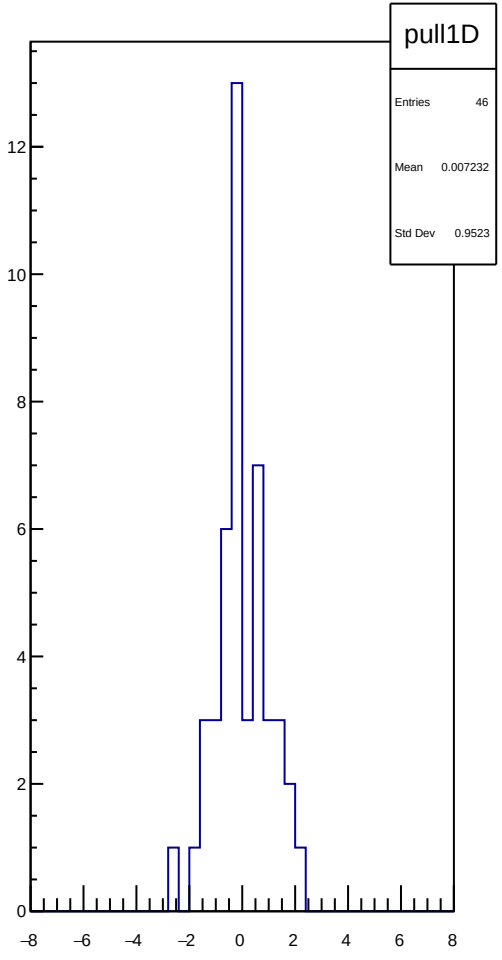

diff_bpm16X_rms vs run
χ² / ndf 300.3 / 45
p0 3891 ± 3.983
4200
4100
4000
3900
3800
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

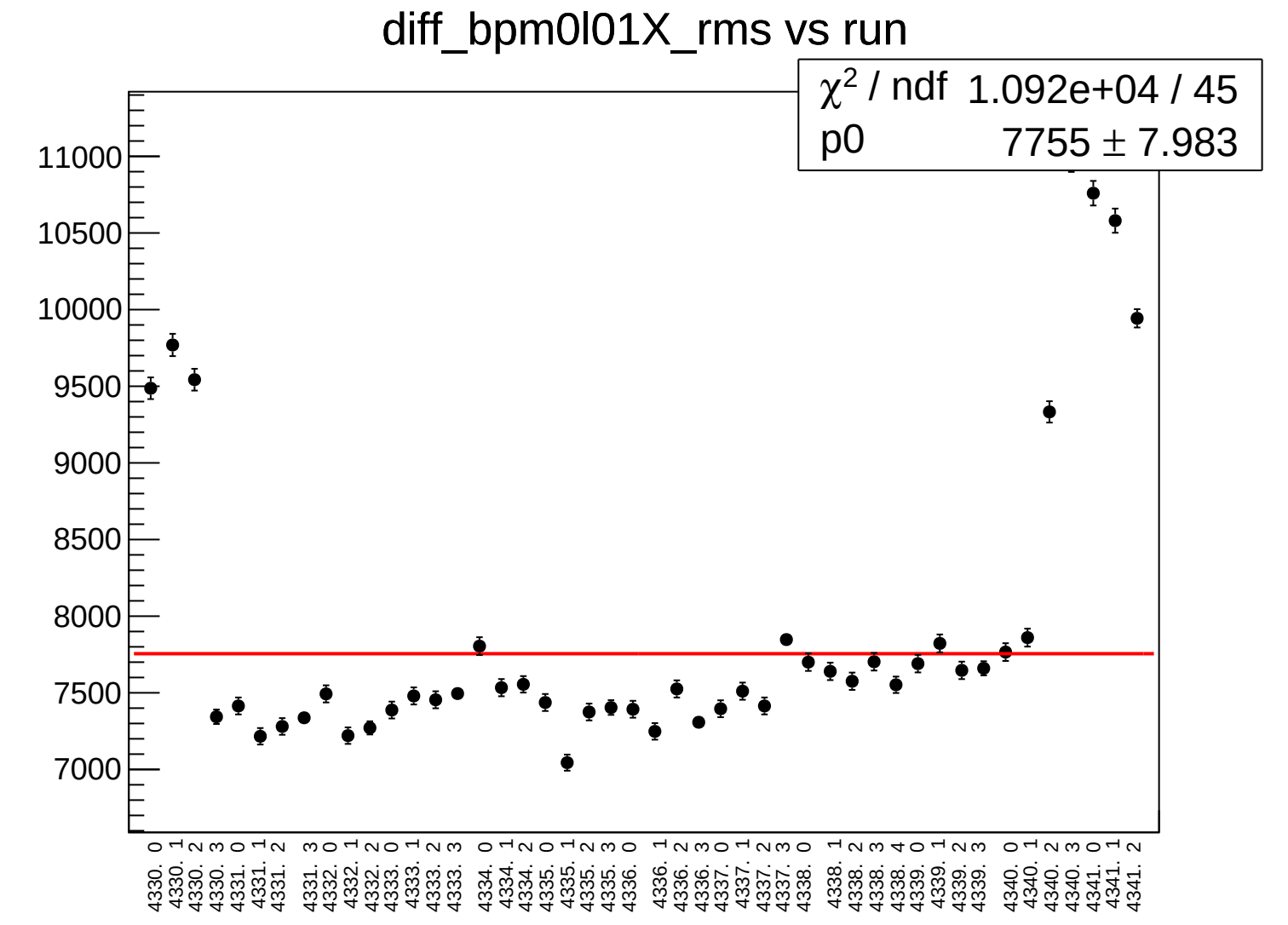

diff_bpm16Y_mean vs run
χ² / ndf 50.19 / 45
p0 −1.537 ± 1.689
pull
Entries 46
Mean 24.21
Std Dev 18.73

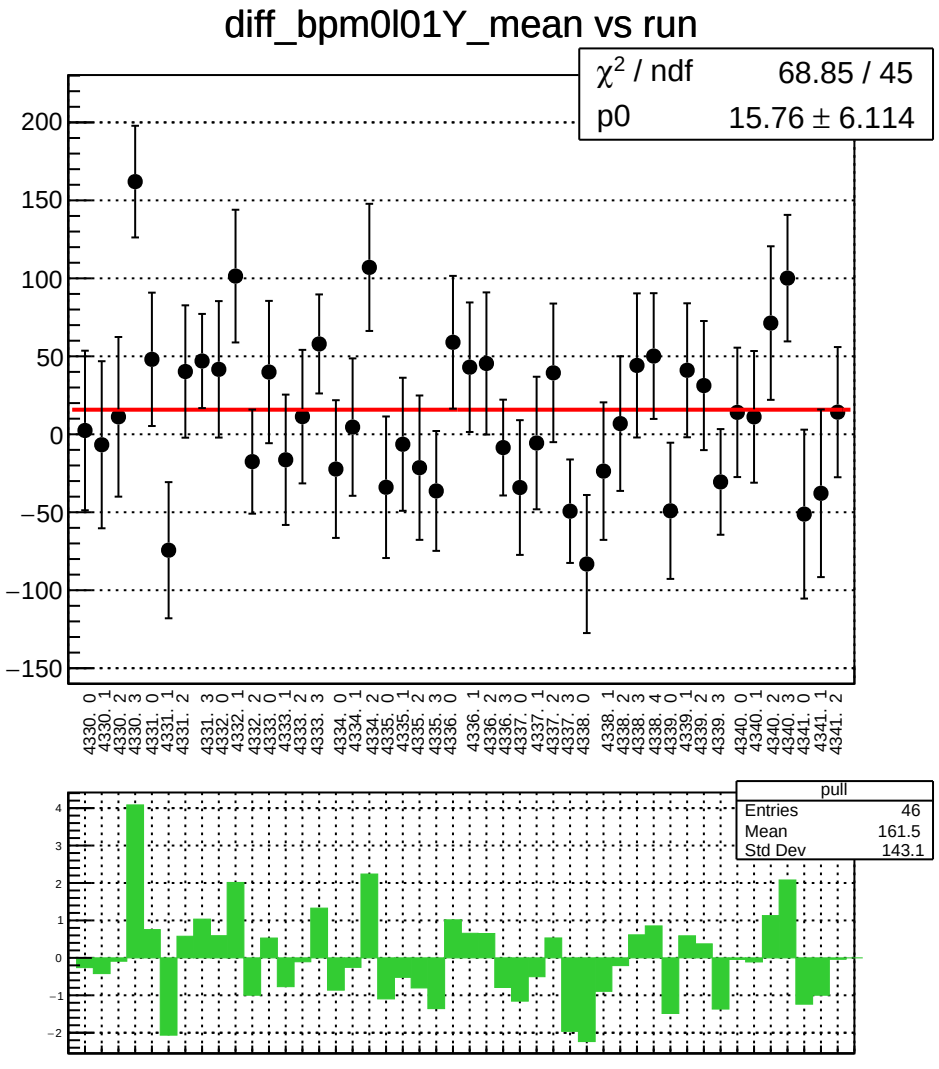

pull1D
Entries 46
Mean 0.02487
Std Dev 1.044

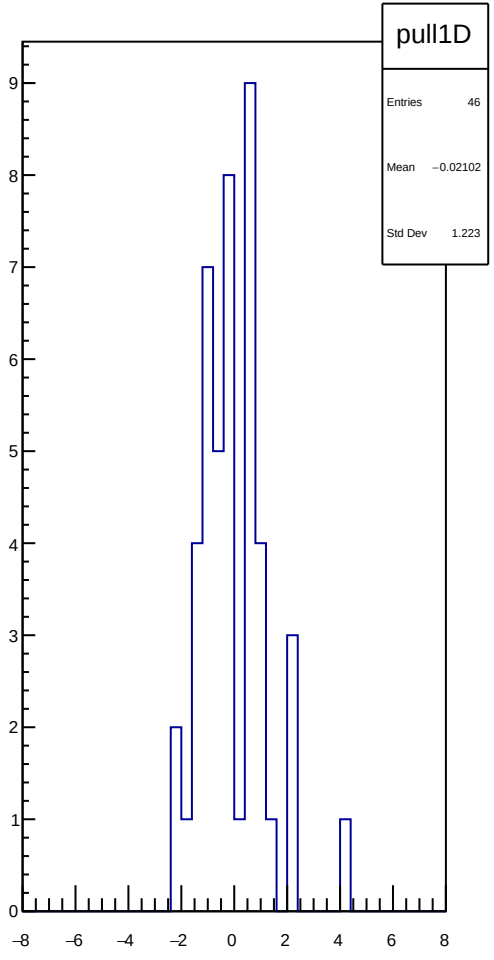

diff_bpm16Y_rms vs run
χ² / ndf 396.2 / 45
p0 1167 ± 1.194
1260
1240
1220
1200
1180
1160
1140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

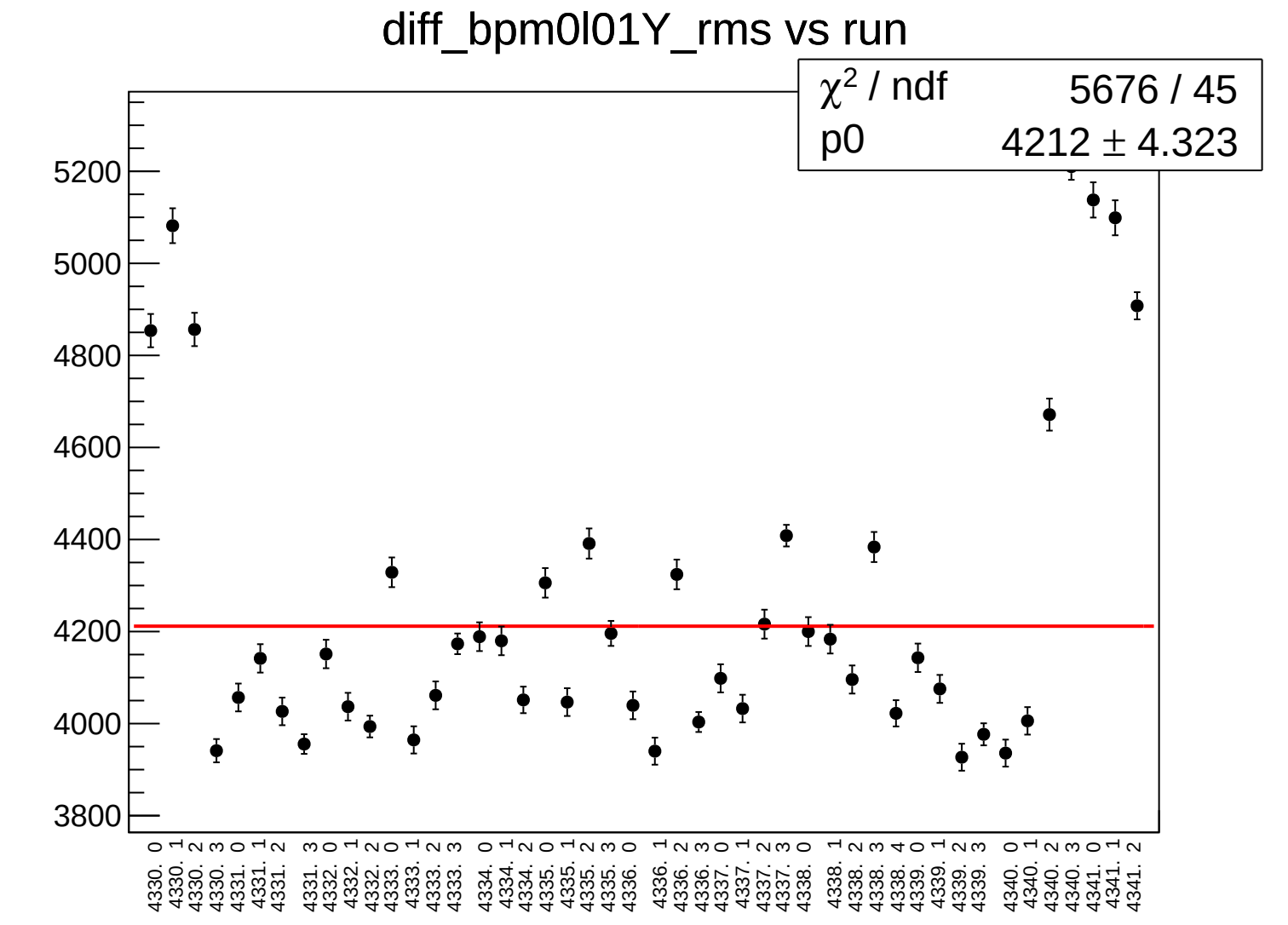

diff_bpm0l01X_mean vs run
χ² / ndf 41.72 / 45
p0 39.75 ± 11.29
pull
Entries 46
Mean 126.9
Std Dev 98.43

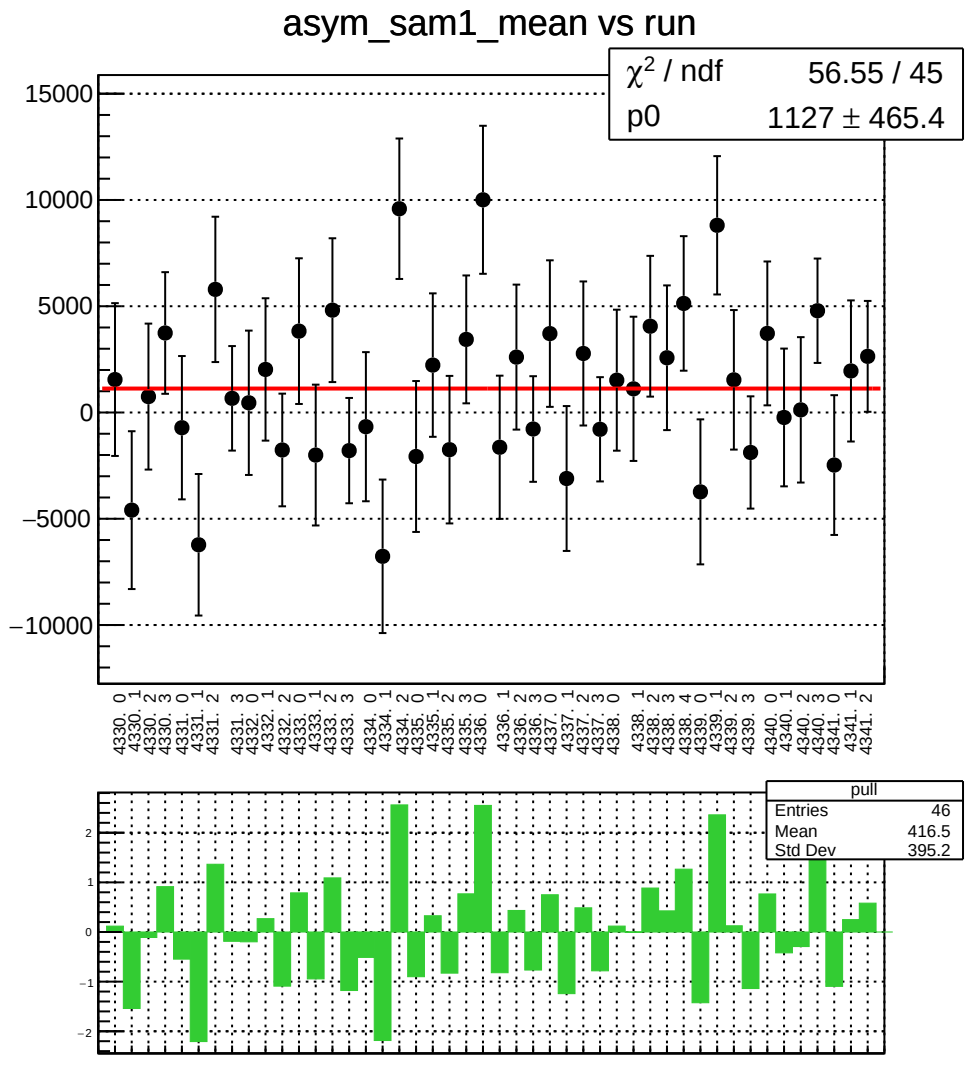

pull1D
Entries 46
Mean 0.007232
Std Dev 0.9523

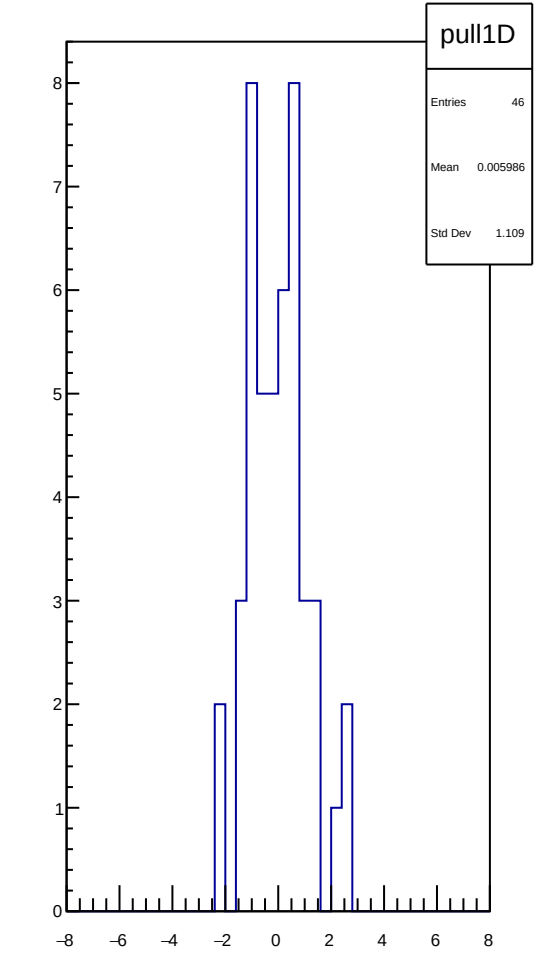

diff_bpm0l01X_rms vs run
χ² / ndf 1.092e+04 / 45
p0 7755 ± 7.983
11000
10500
10000
9500
9000
8500
8000
7500
7000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

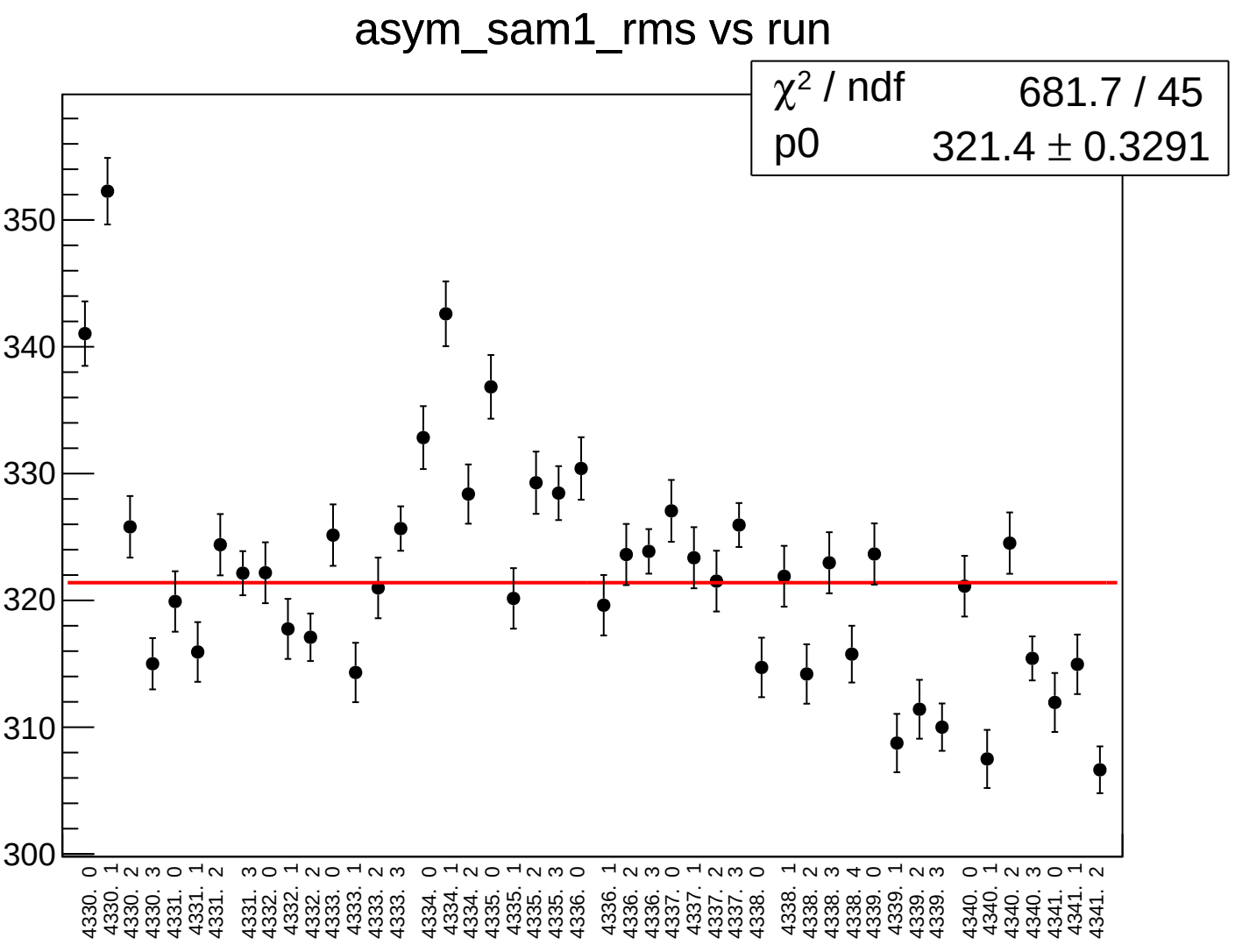

diff_bpm0l01Y_mean vs run
χ² / ndf 68.85 / 45
p0 15.76 ± 6.114
pull
Entries 46
Mean 161.5
Std Dev 143.1

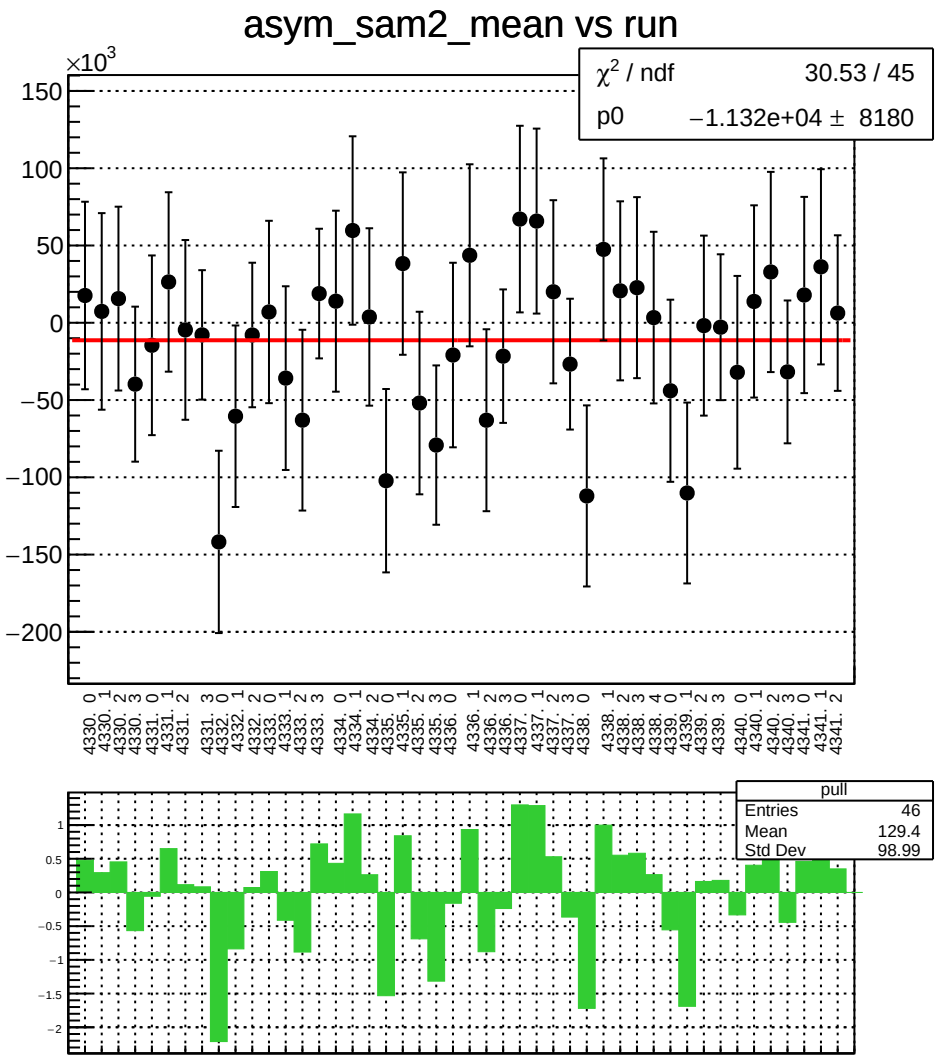

pull1D
Entries 46
Mean −0.02102
Std Dev 1.223

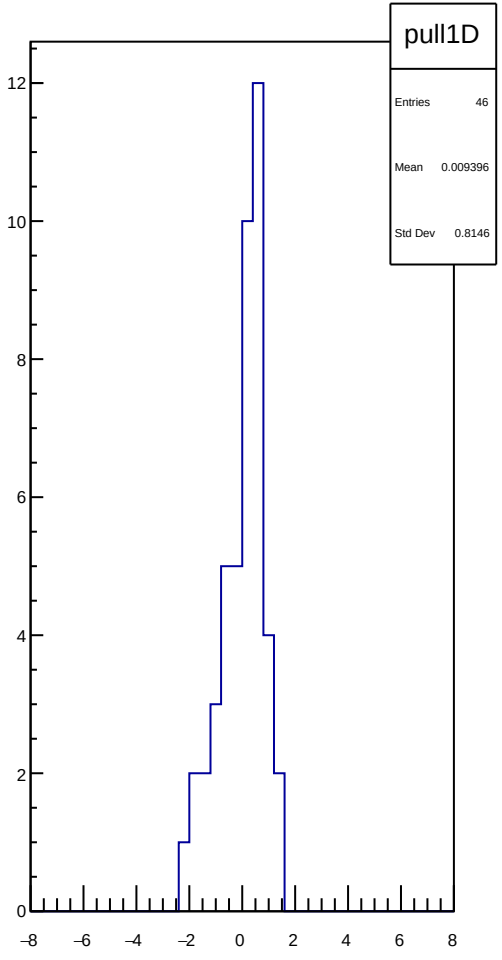

diff_bpm0l01Y_rms vs run
χ² / ndf 5676 / 45
p0 4212 ± 4.323
5200
5000
4800
4600
4400
4200
4000
3800
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

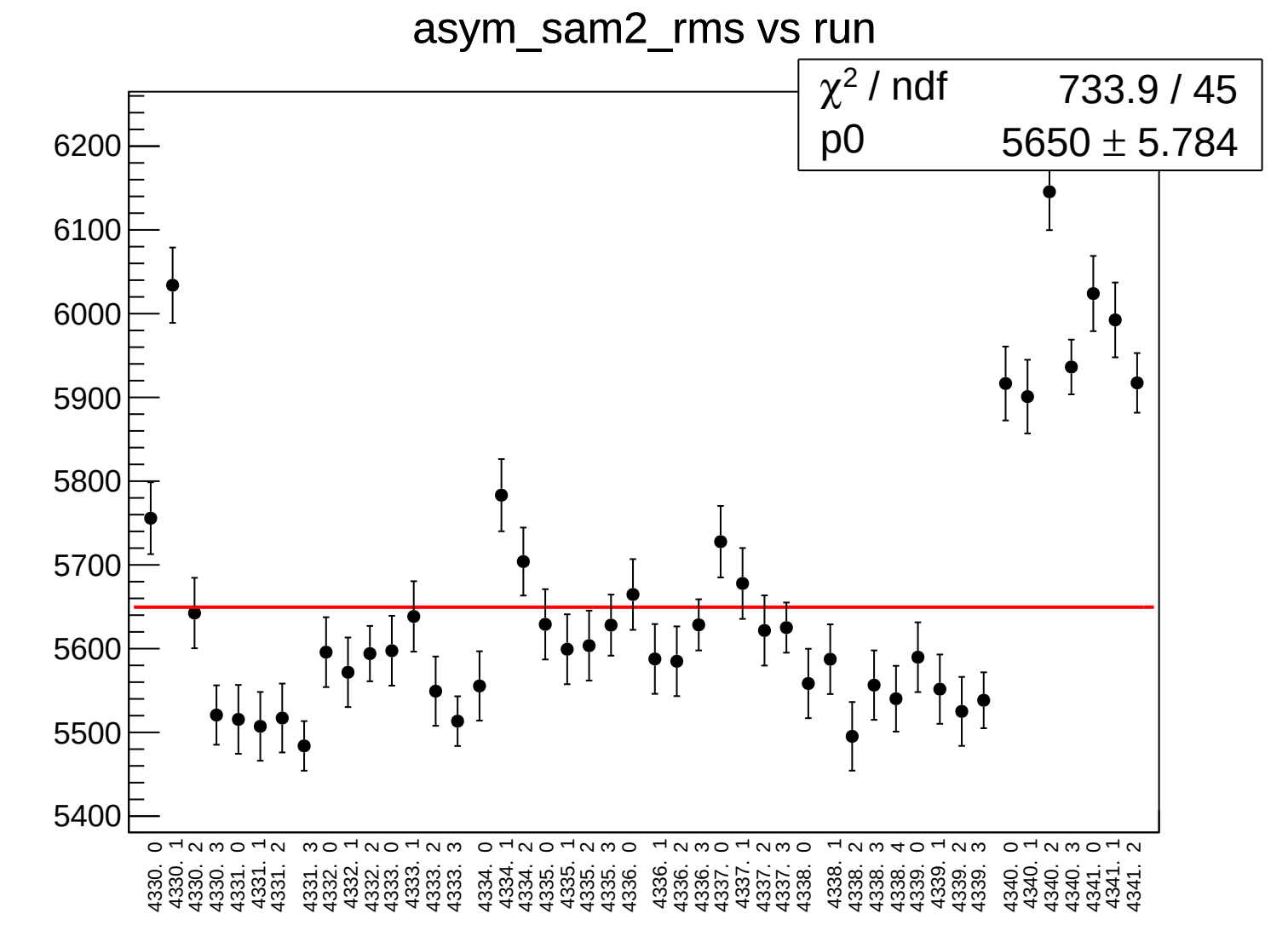

asym_sam1_mean vs run
χ² / ndf 56.55 / 45
p0 1127 ± 465.4
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 416.5
Std Dev 395.2
2
1
0
−1
−2

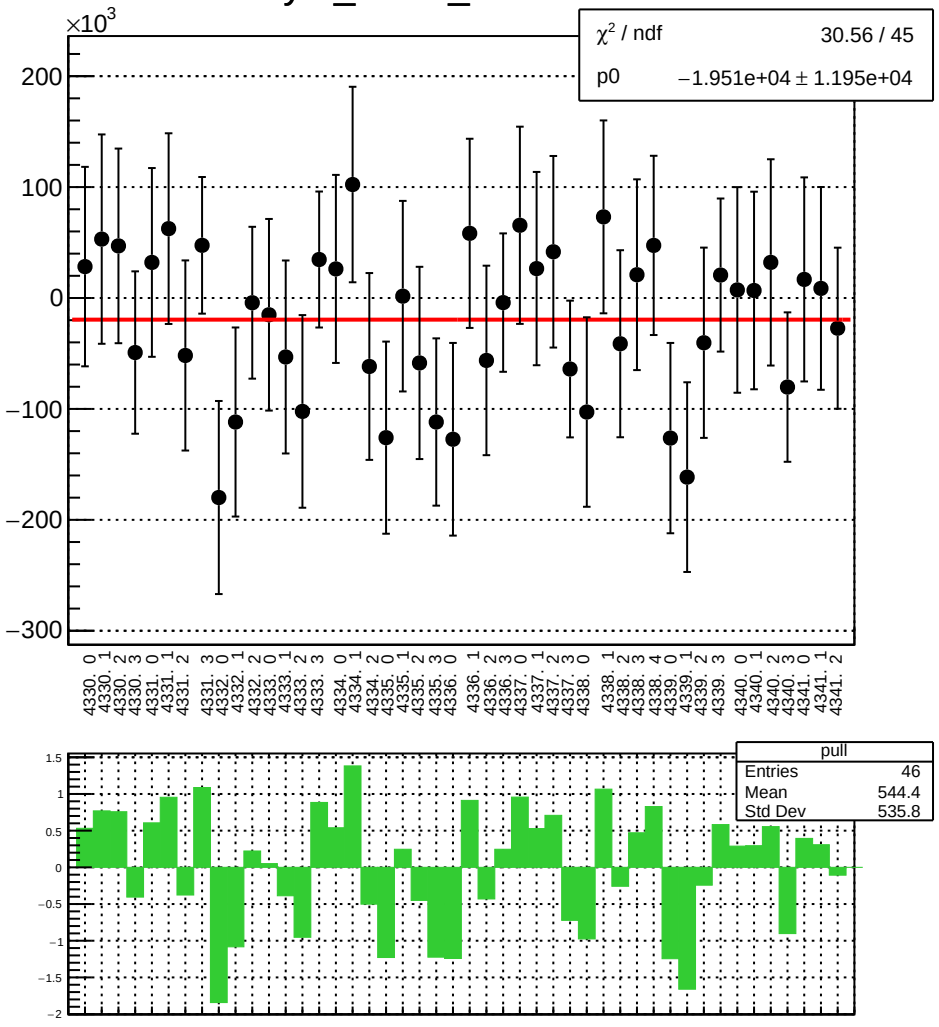

pull1D
Entries 46
Mean 0.005986
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

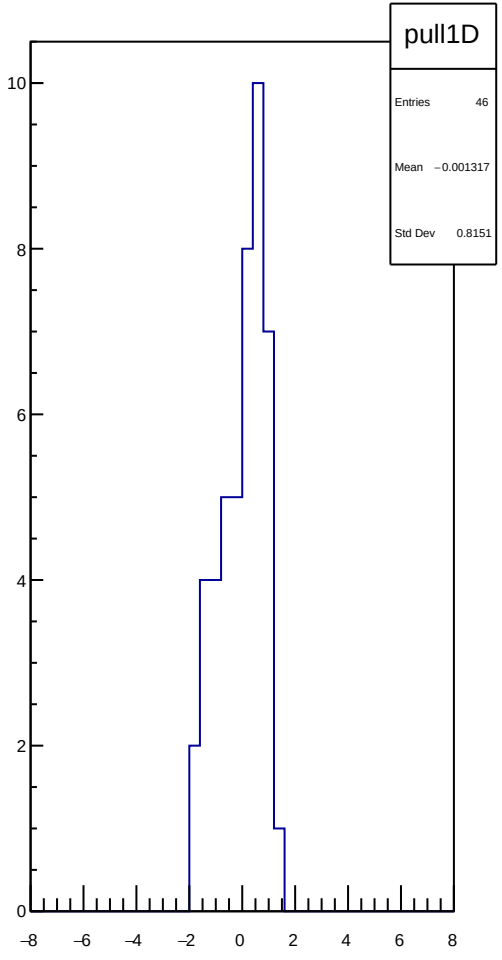

asym_sam1_rms vs run
χ² / ndf 681.7 / 45
p0 321.4 ± 0.3291
350
340
330
320
310
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

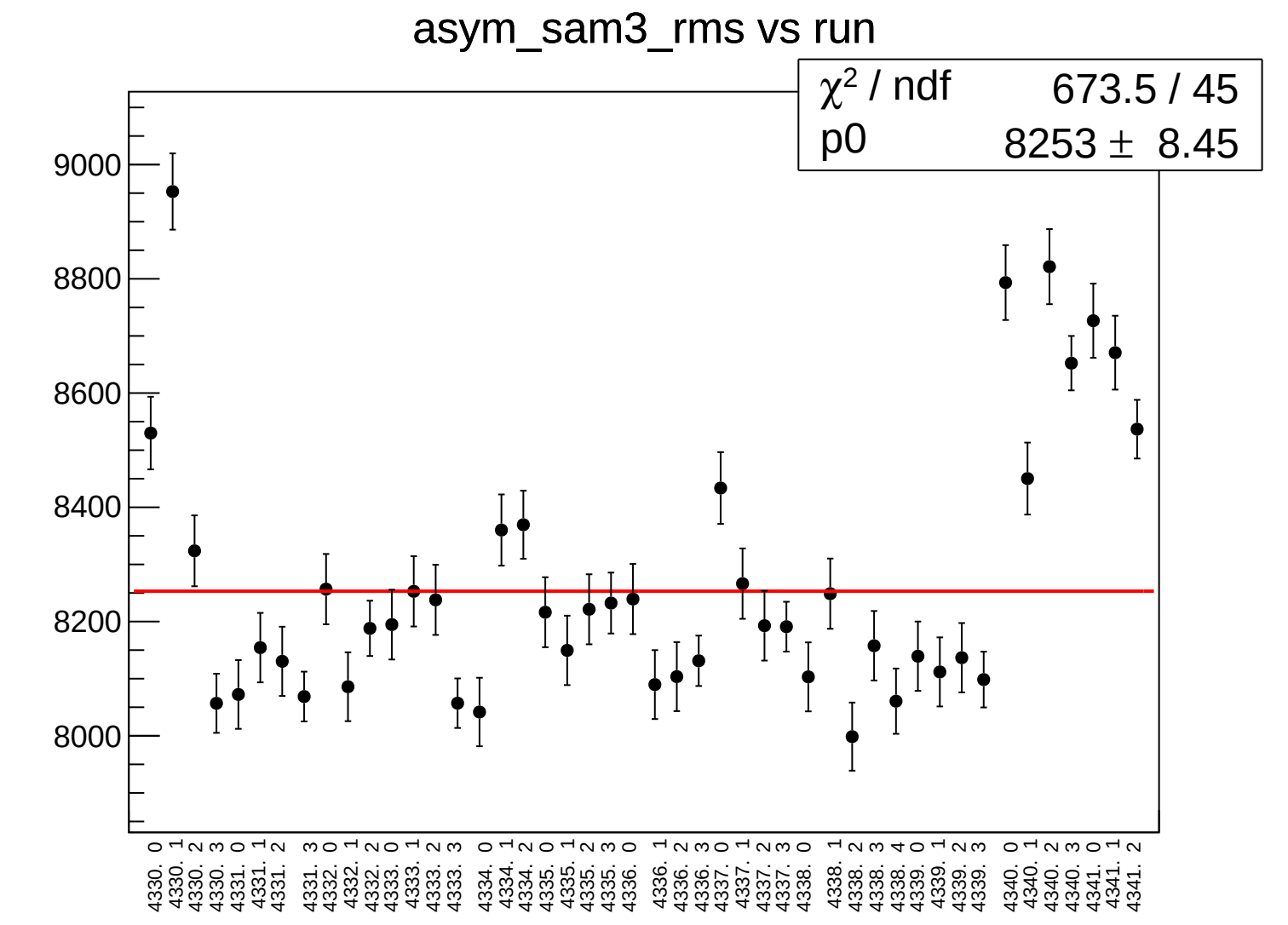

asym_sam2_mean vs run
×10^3
χ² / ndf 30.53 / 45
p0 −1.132e+04 ± 8180
150
100
50
0
−50
−100
−150
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 129.4
Std Dev 98.99
1
0.5
0
−0.5
−1
−1.5
−2

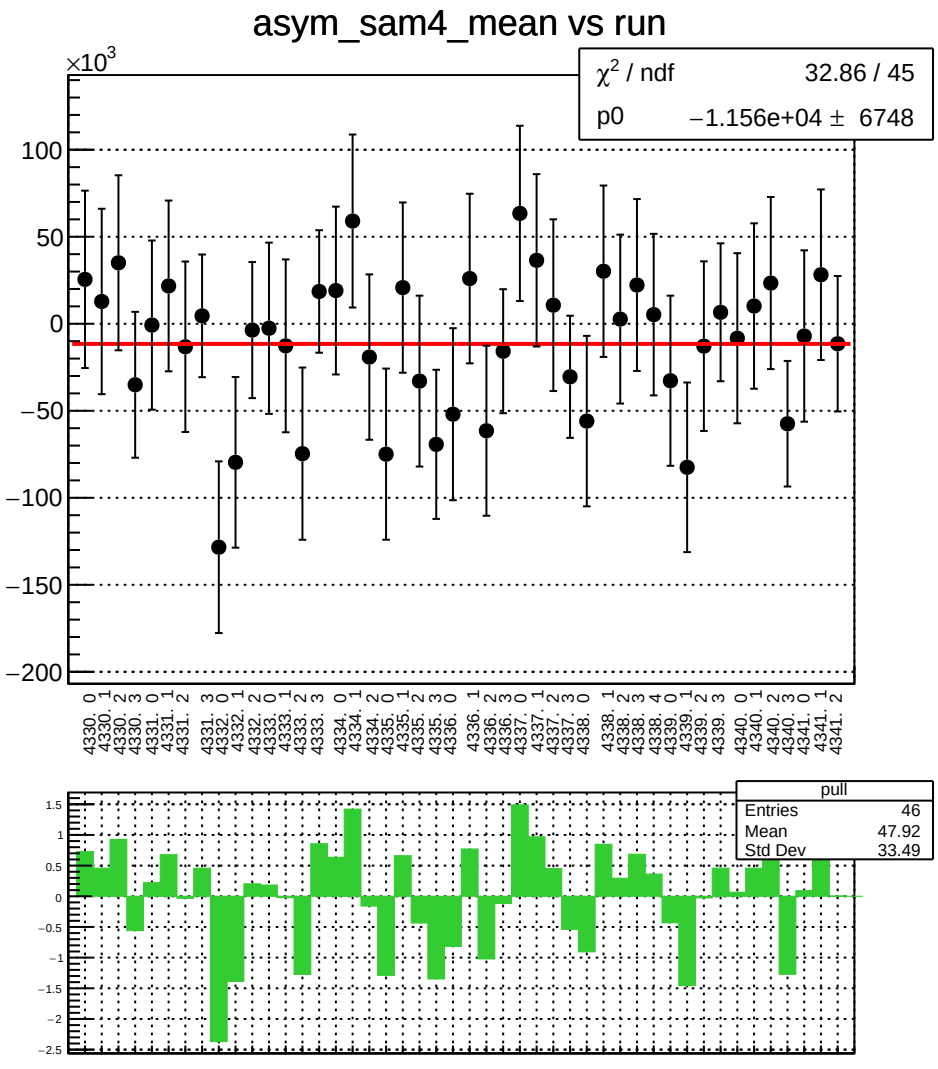

pull1D
Entries 46
Mean 0.009396
Std Dev 0.8146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

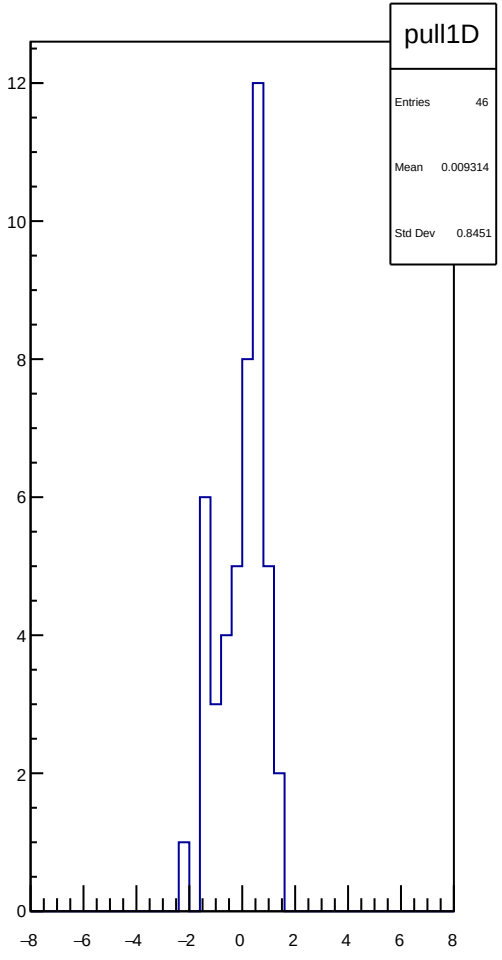

asym_sam2_rms vs run
χ² / ndf 733.9 / 45
p0 5650 ± 5.784
6200
6100
6000
5900
5800
5700
5600
5500
5400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

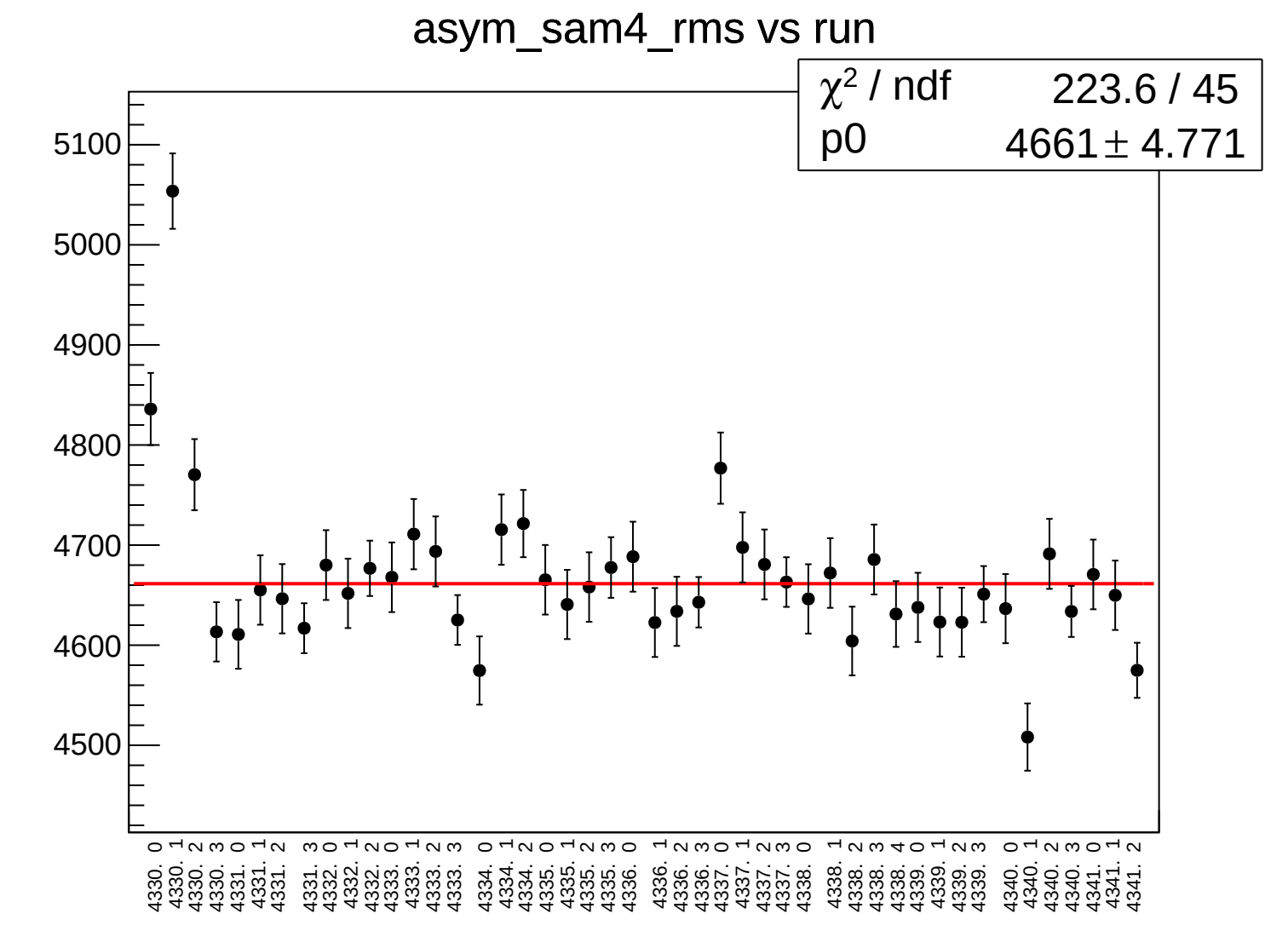

asym_sam3_mean vs run
×10^3
χ² / ndf 30.56 / 45
p0 −1.951e+04 ± 1.195e+04
200
100
0
−100
−200
−300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 544.4
Std Dev 535.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

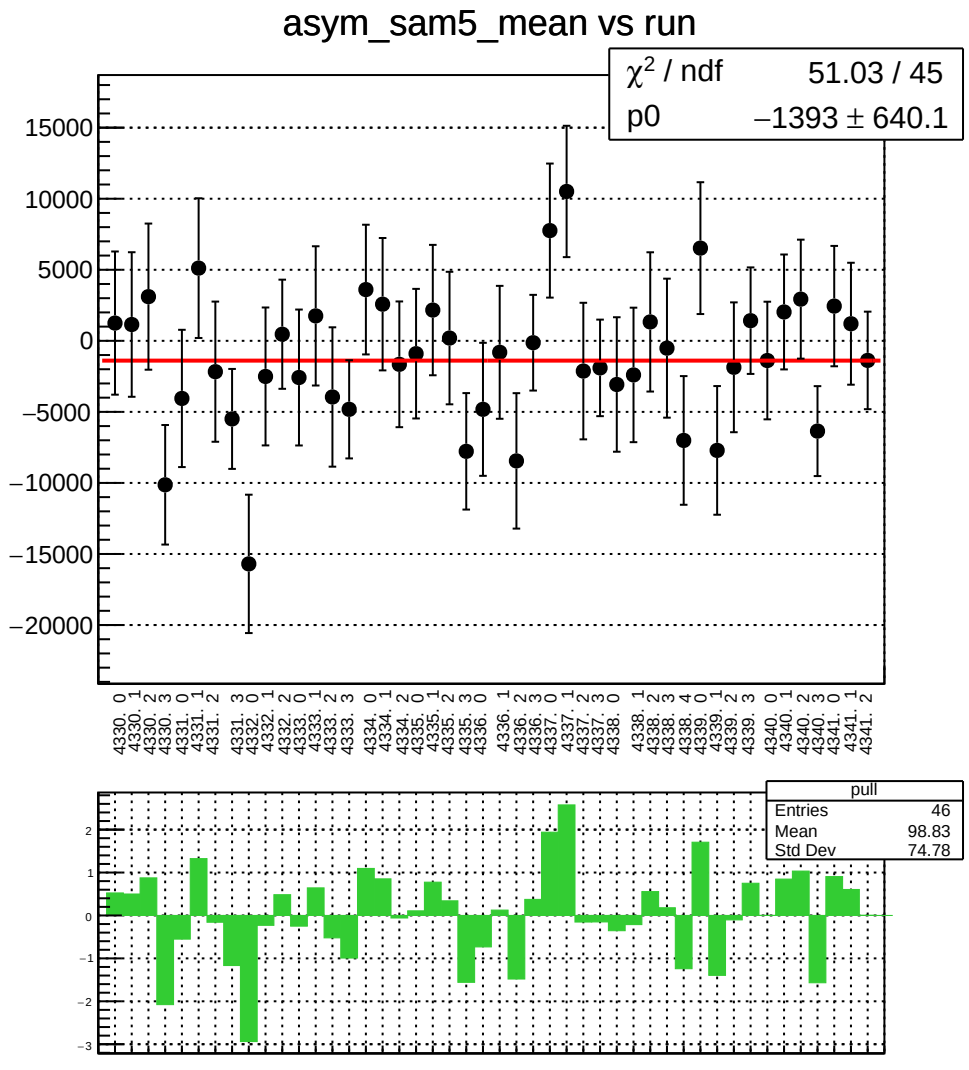

pull1D
Entries 46
Mean −0.001317
Std Dev 0.8151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

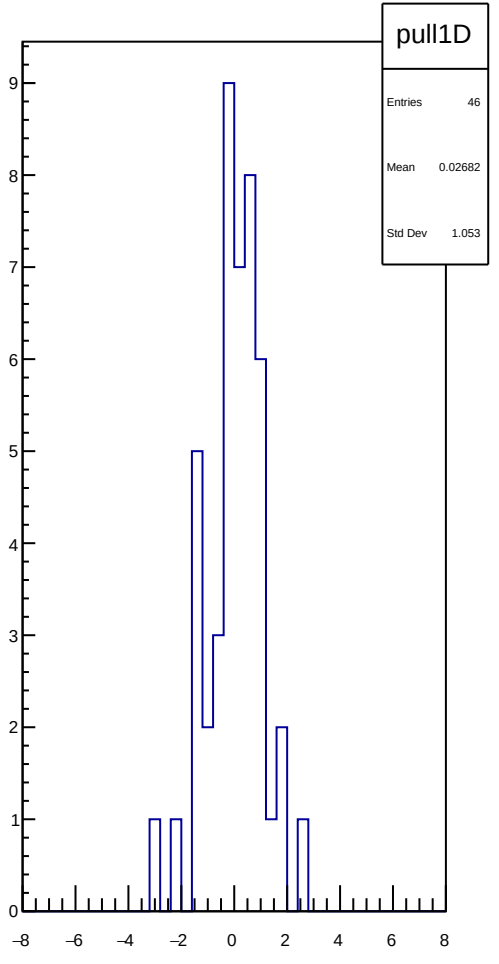

asym_sam3_rms vs run
χ² / ndf 673.5 / 45
p0 8253 ± 8.45
9000
8800
8600
8400
8200
8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

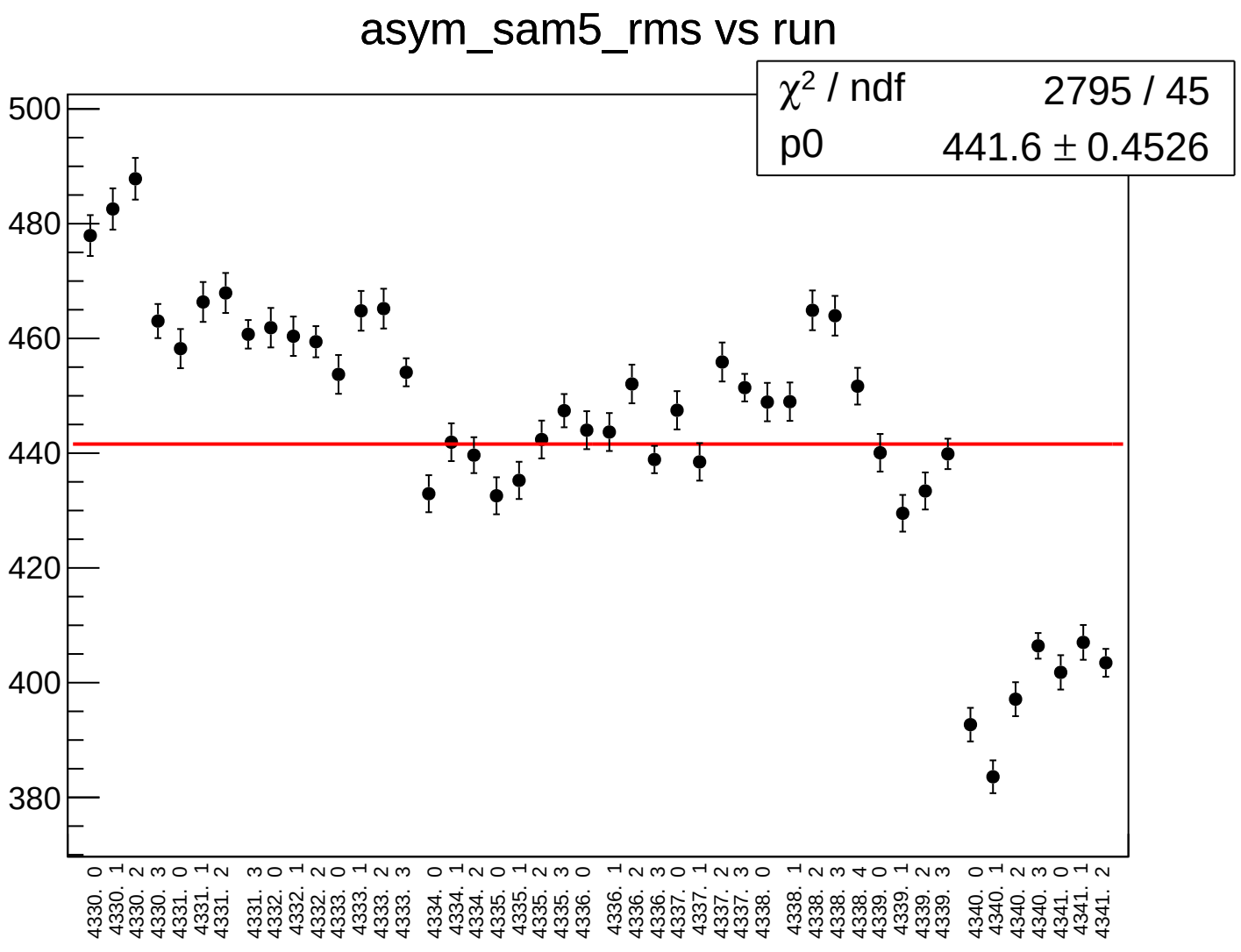

asym_sam4_mean vs run
×10^3
χ² / ndf 32.86 / 45
p0 −1.156e+04 ± 6748
100
50
0
−50
−100
−150
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 47.92
Std Dev 33.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

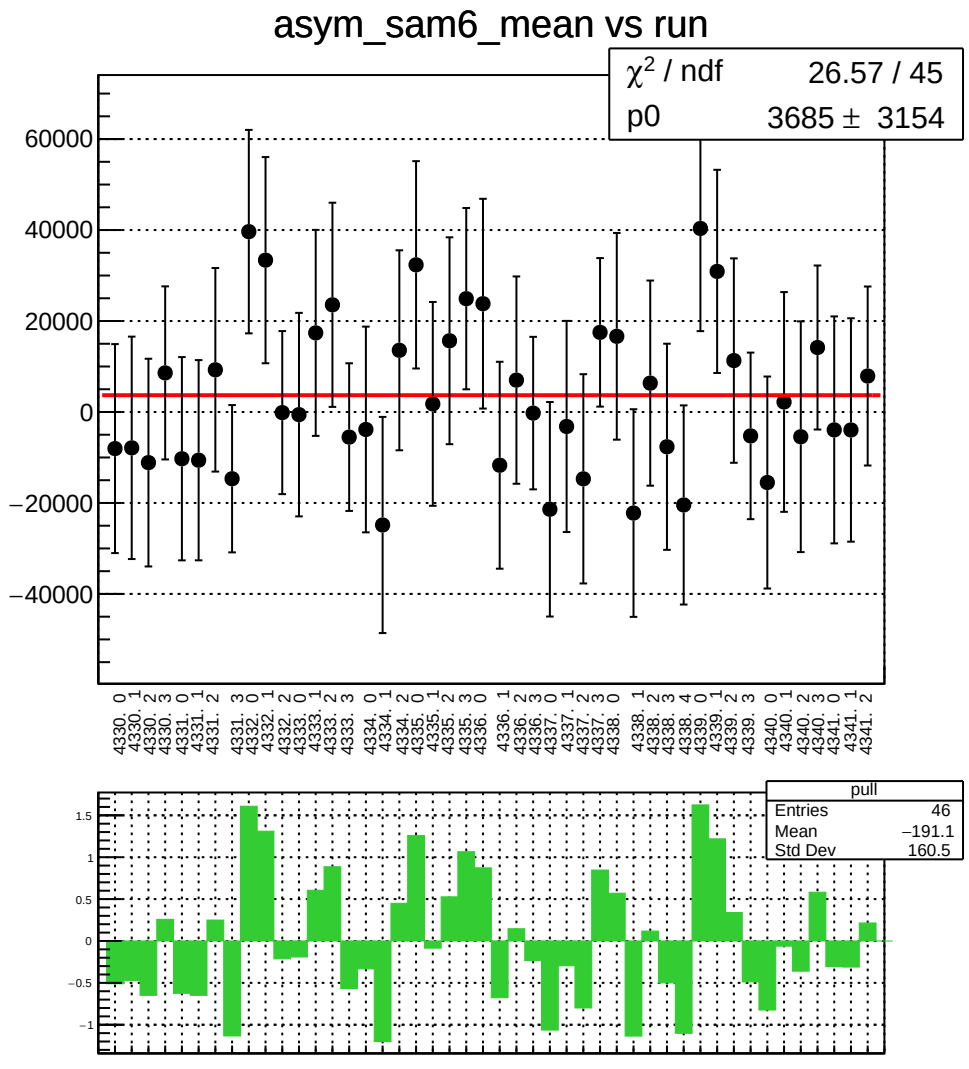

pull1D
Entries 46
Mean 0.009314
Std Dev 0.8451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

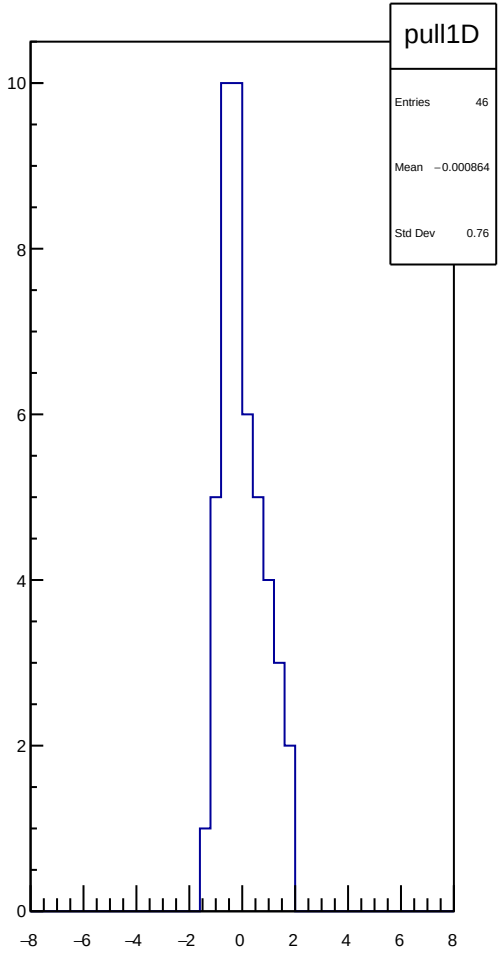

asym_sam4_rms vs run
χ² / ndf 223.6 / 45
p0 4661 ± 4.771
5100
5000
4900
4800
4700
4600
4500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

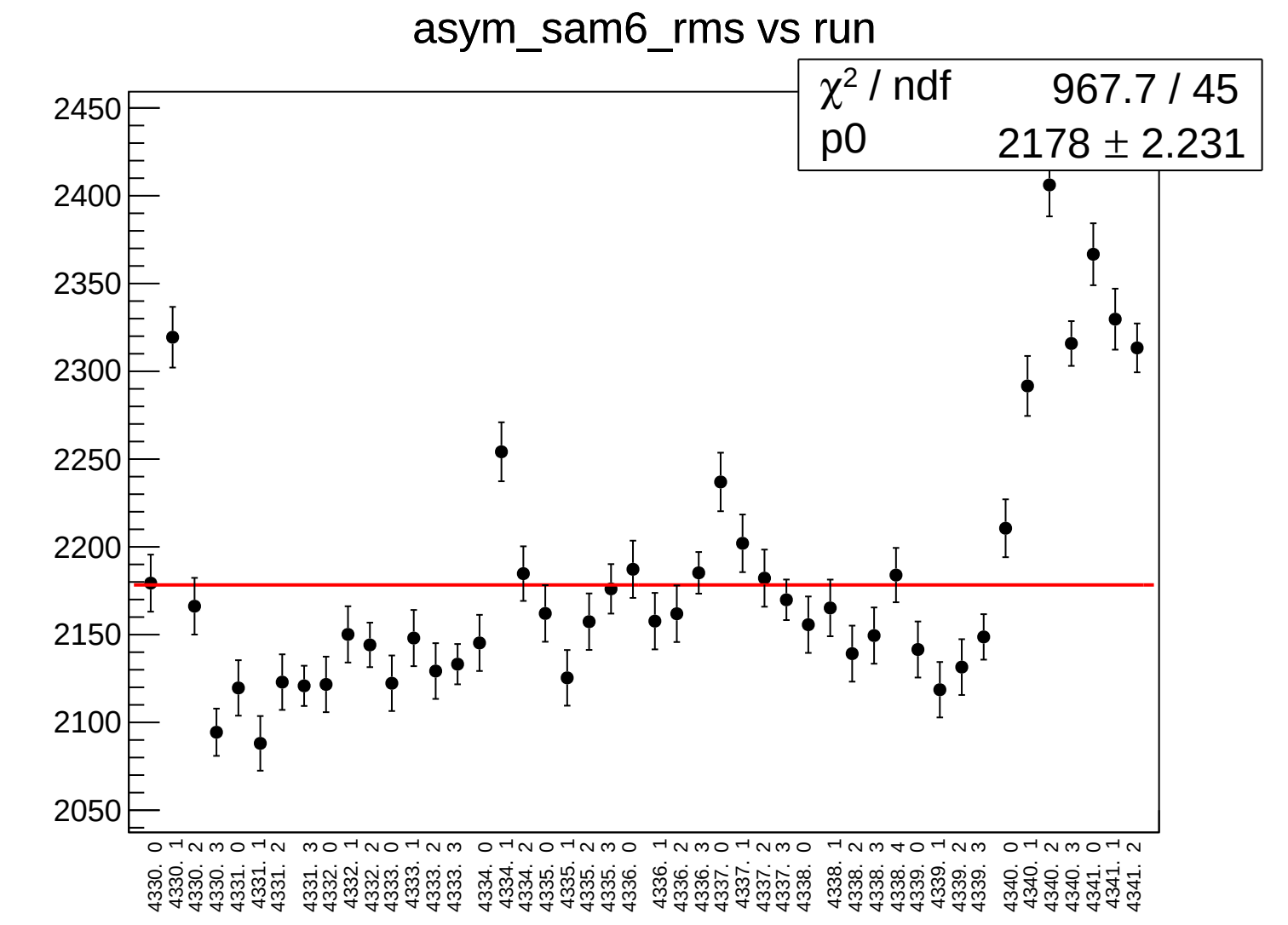

asym_sam5_mean vs run
χ² / ndf 51.03 / 45
p0 −1393 ± 640.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 98.83
Std Dev 74.78
2
1
0
−1
−2
−3

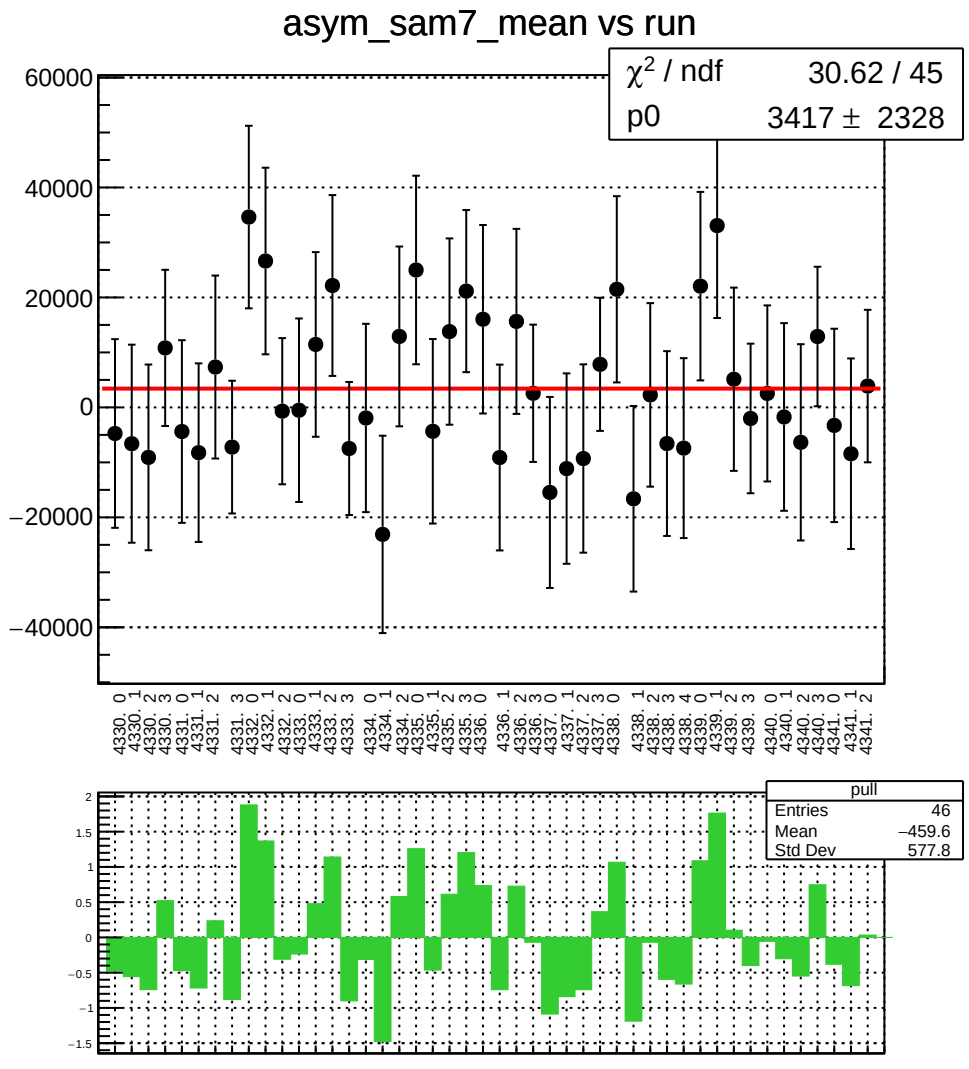

pull1D
Entries 46
Mean 0.02682
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

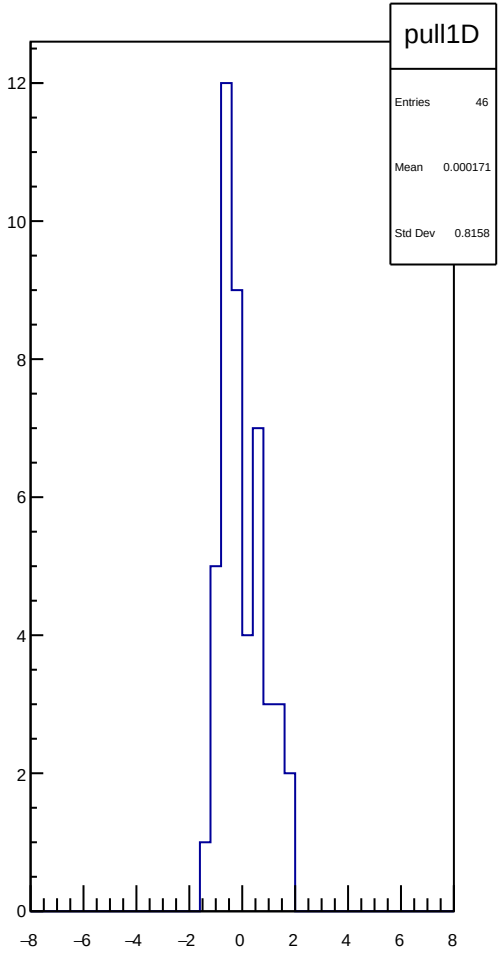

asym_sam5_rms vs run
χ² / ndf 2795 / 45
p0 441.6 ± 0.4526
500
480
460
440
420
400
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

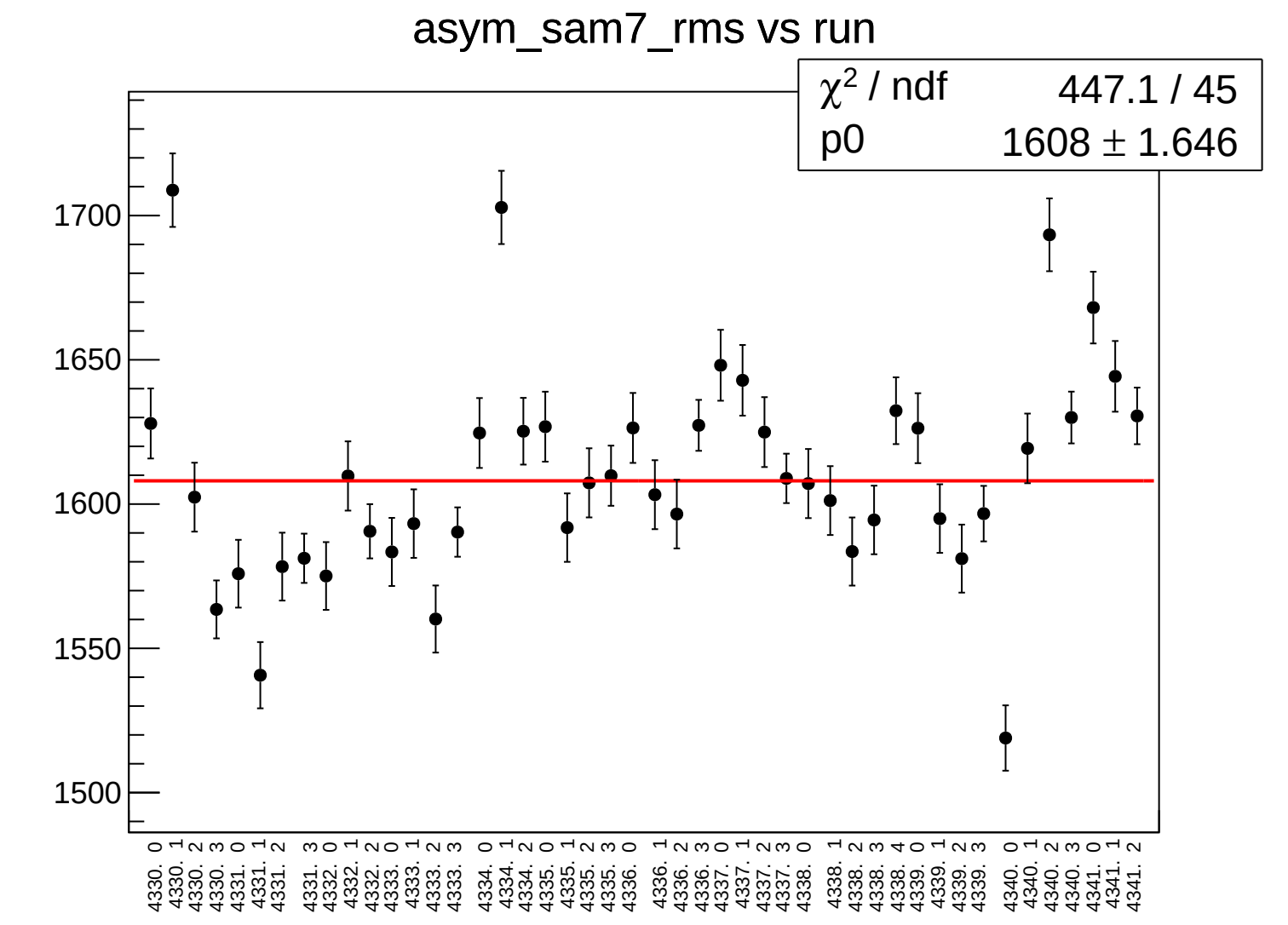

asym_sam6_mean vs run
χ² / ndf 26.57 / 45
p0 3685 ± 3154
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −191.1
Std Dev 160.5
1.5
1
0.5
0
−0.5
−1

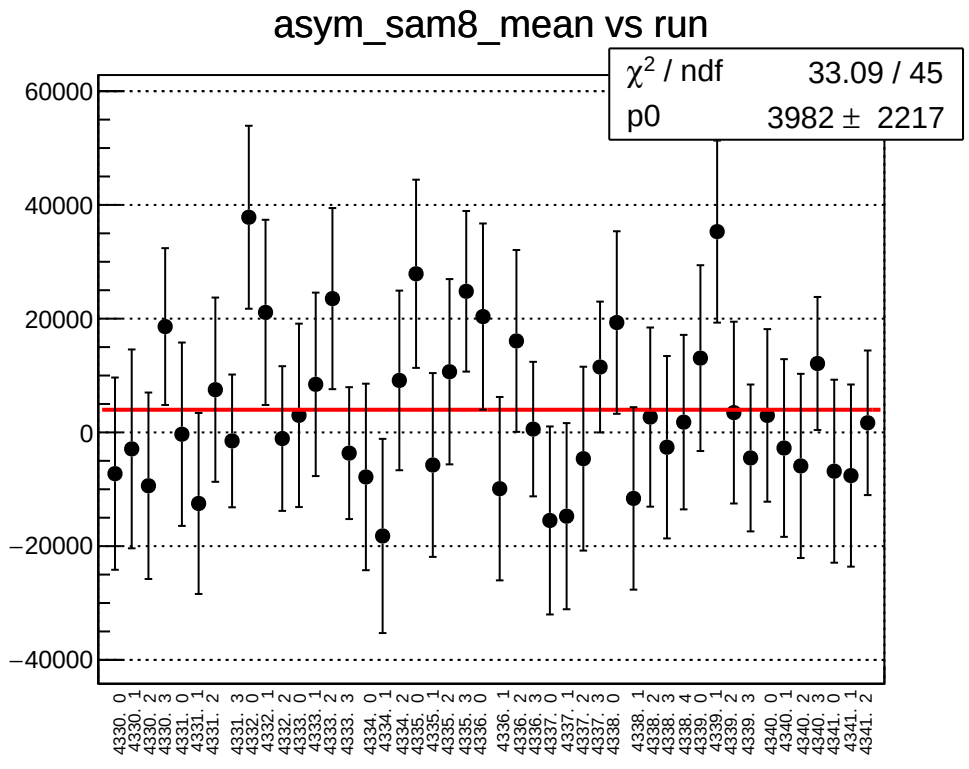

pull1D
Entries 46
Mean −0.000864
Std Dev 0.76
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

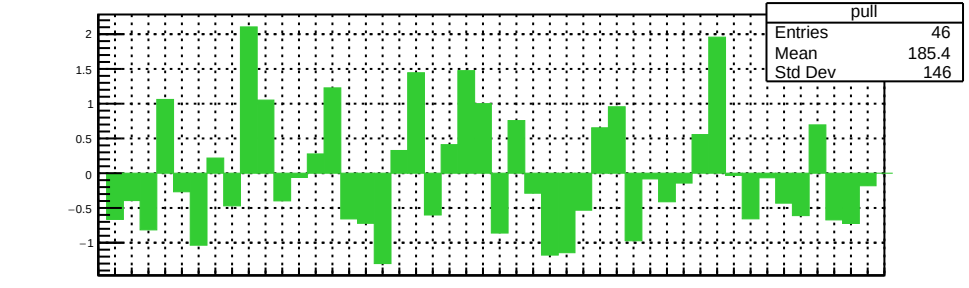

asym_sam6_rms vs run
χ^2 / ndf 967.7 / 45
p0 2178 ± 2.231
2450
2400
2350
2300
2250
2200
2150
2100
2050
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

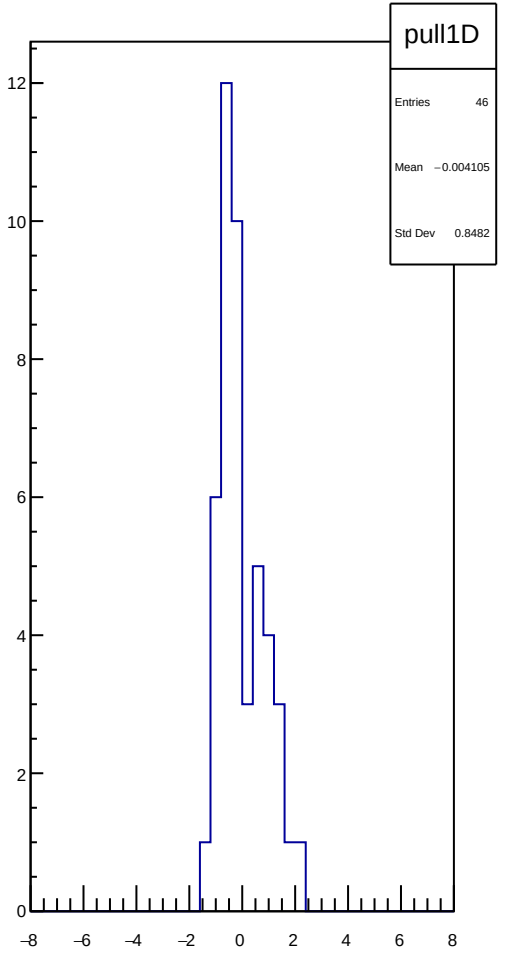

asym_sam7_mean vs run
χ² / ndf 30.62 / 45
p0 3417 ± 2328
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −459.6
Std Dev 577.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

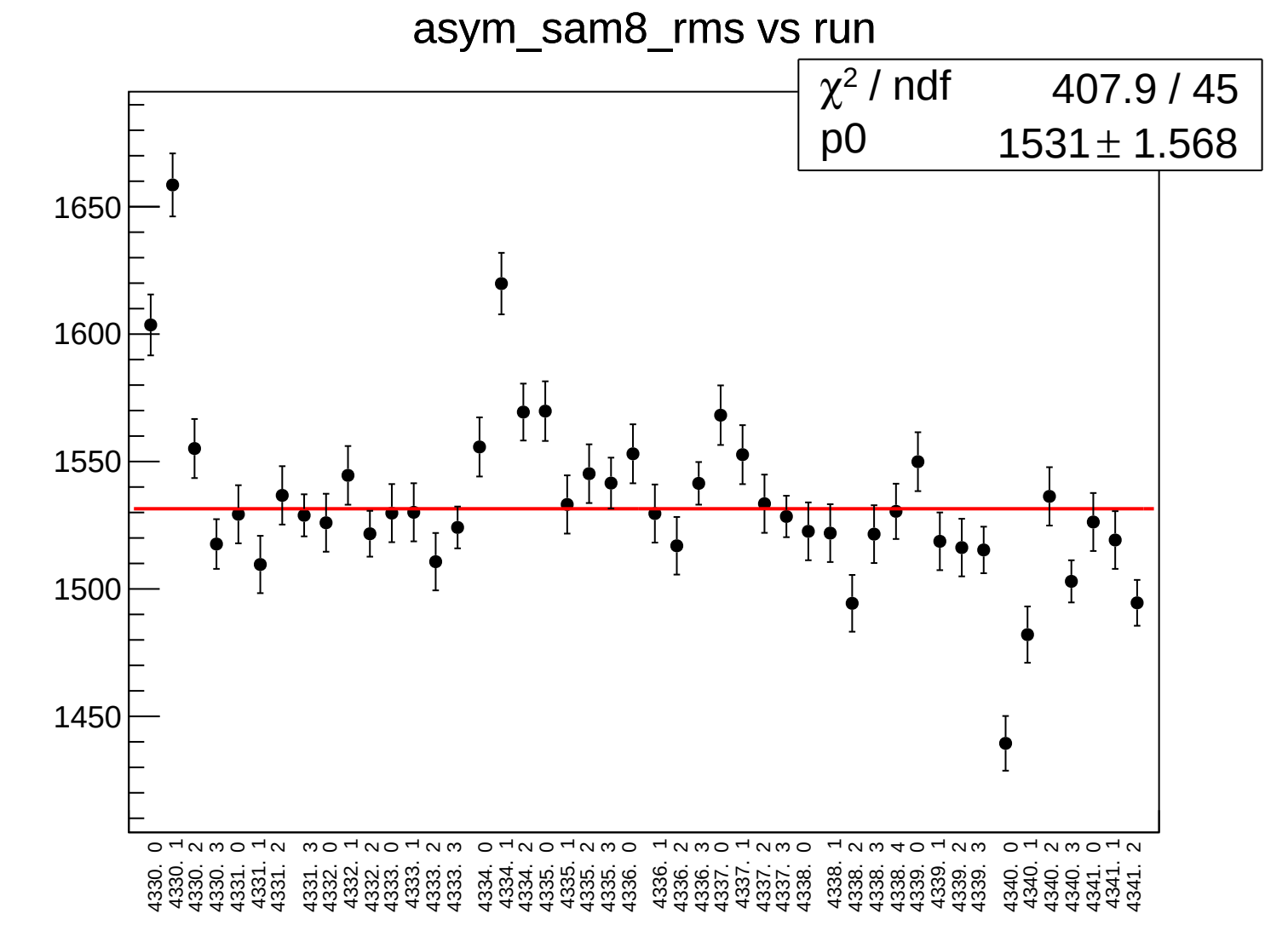

pull1D
Entries 46
Mean 0.000171
Std Dev 0.8158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

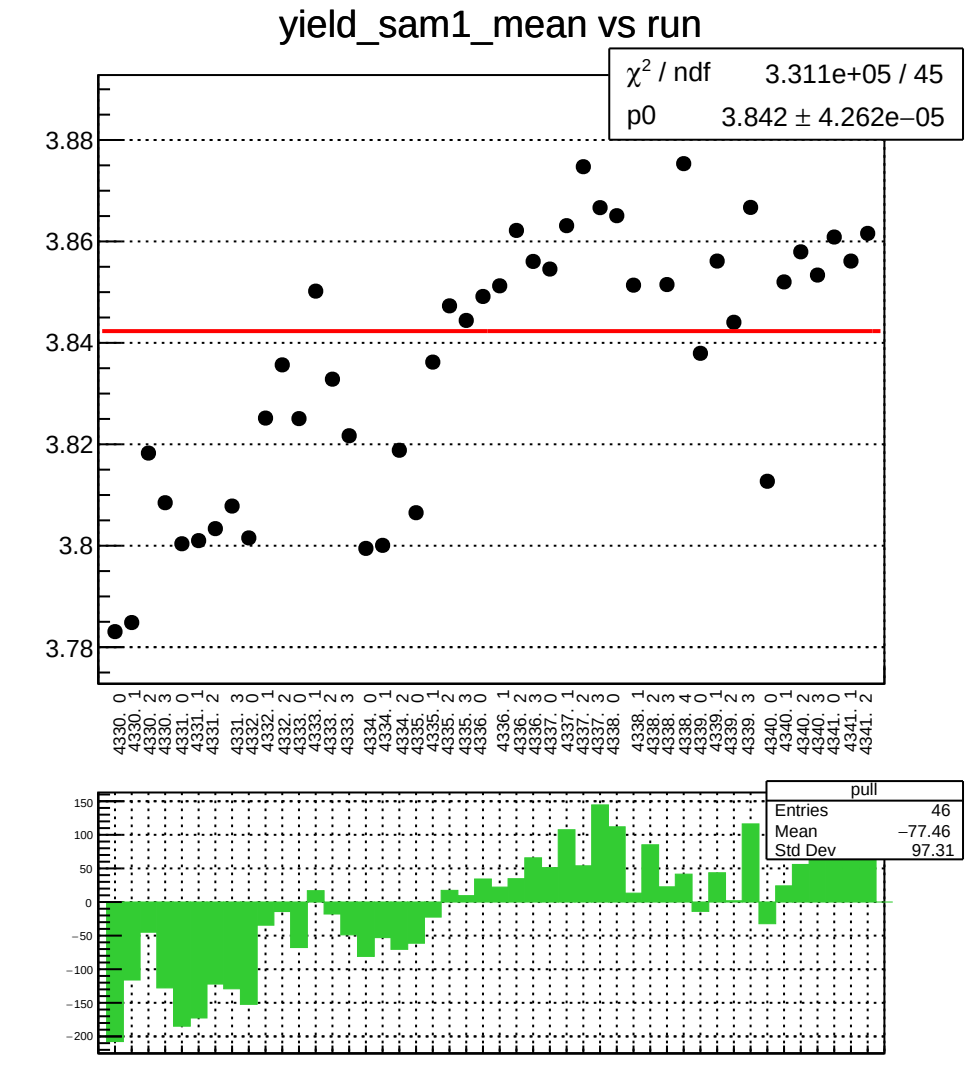

asym_sam7_rms vs run
χ² / ndf 447.1 / 45
p0 1608 ± 1.646
1700
1650
1600
1550
1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

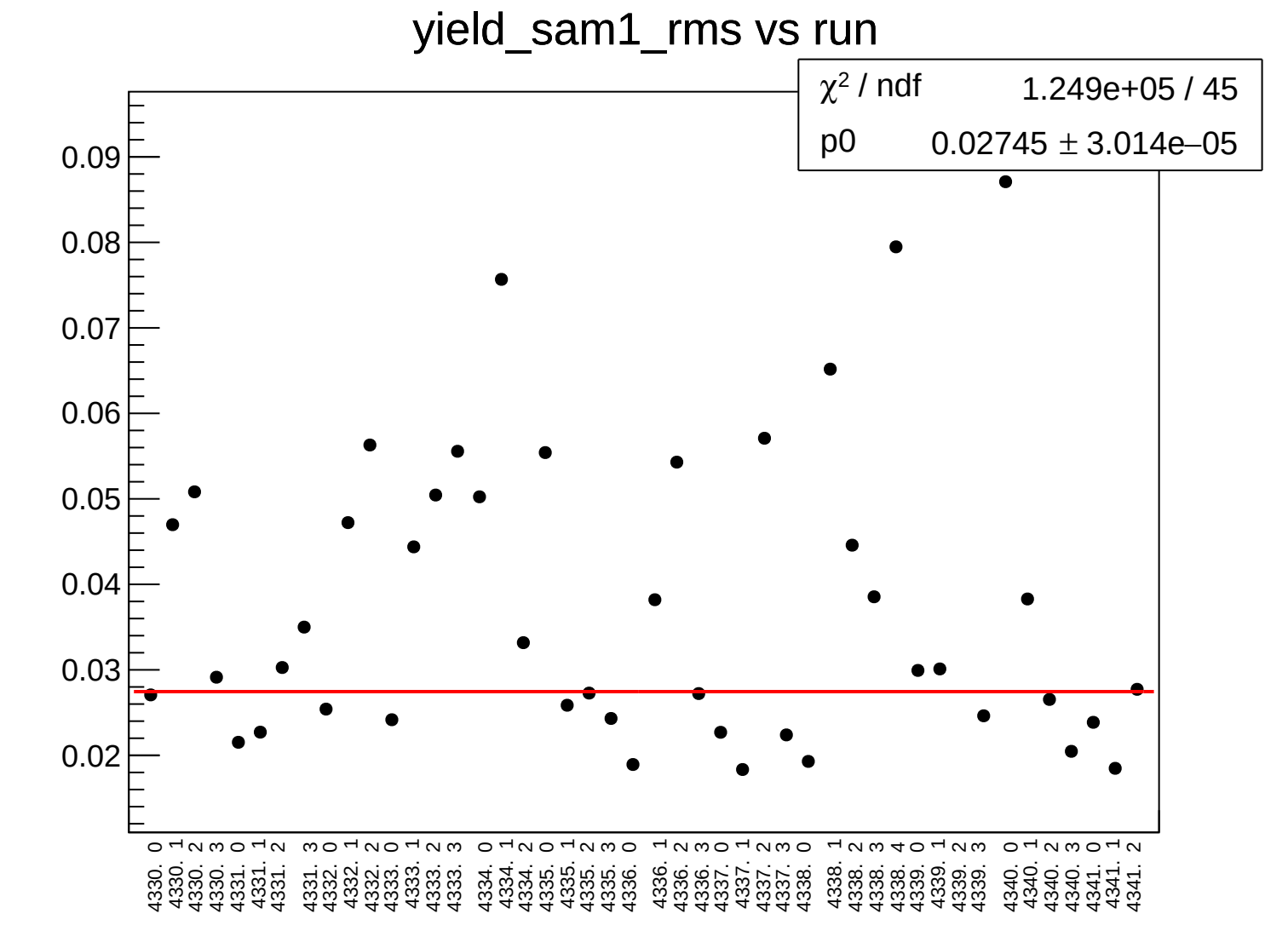

asym_sam8_mean vs run
χ² / ndf 33.09 / 45
p0 3982 ± 2217
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

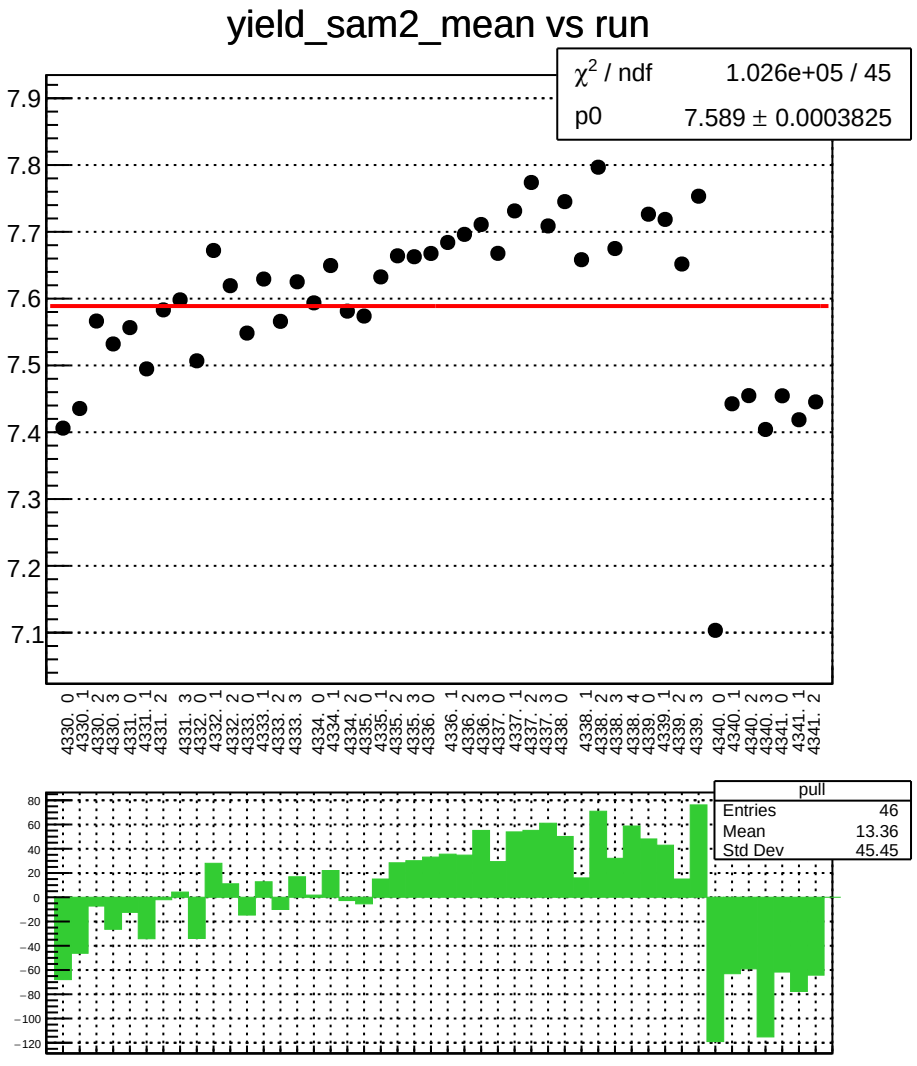

pull
Entries 46
Mean 185.4
Std Dev 146
2
1.5
1
0.5
0
−0.5
−1

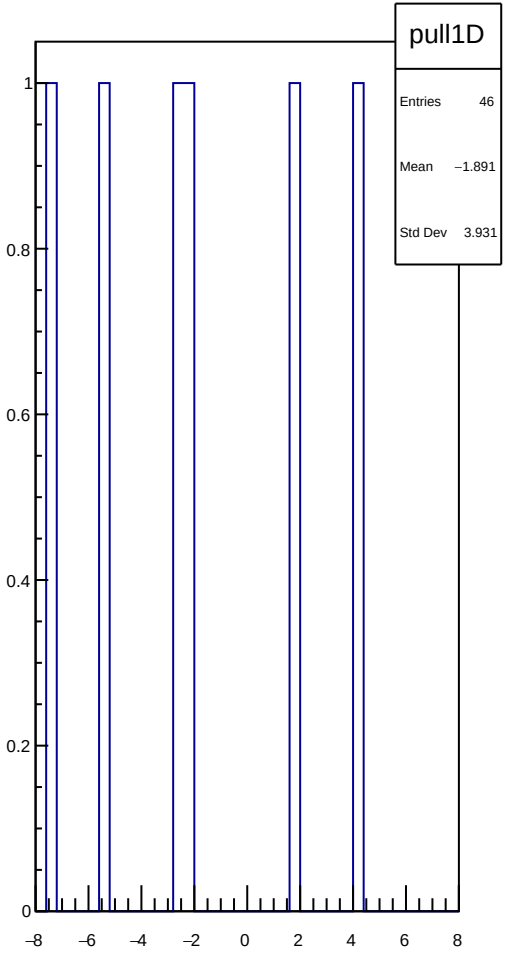

pull1D
Entries 46
Mean −0.004105
Std Dev 0.8482
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

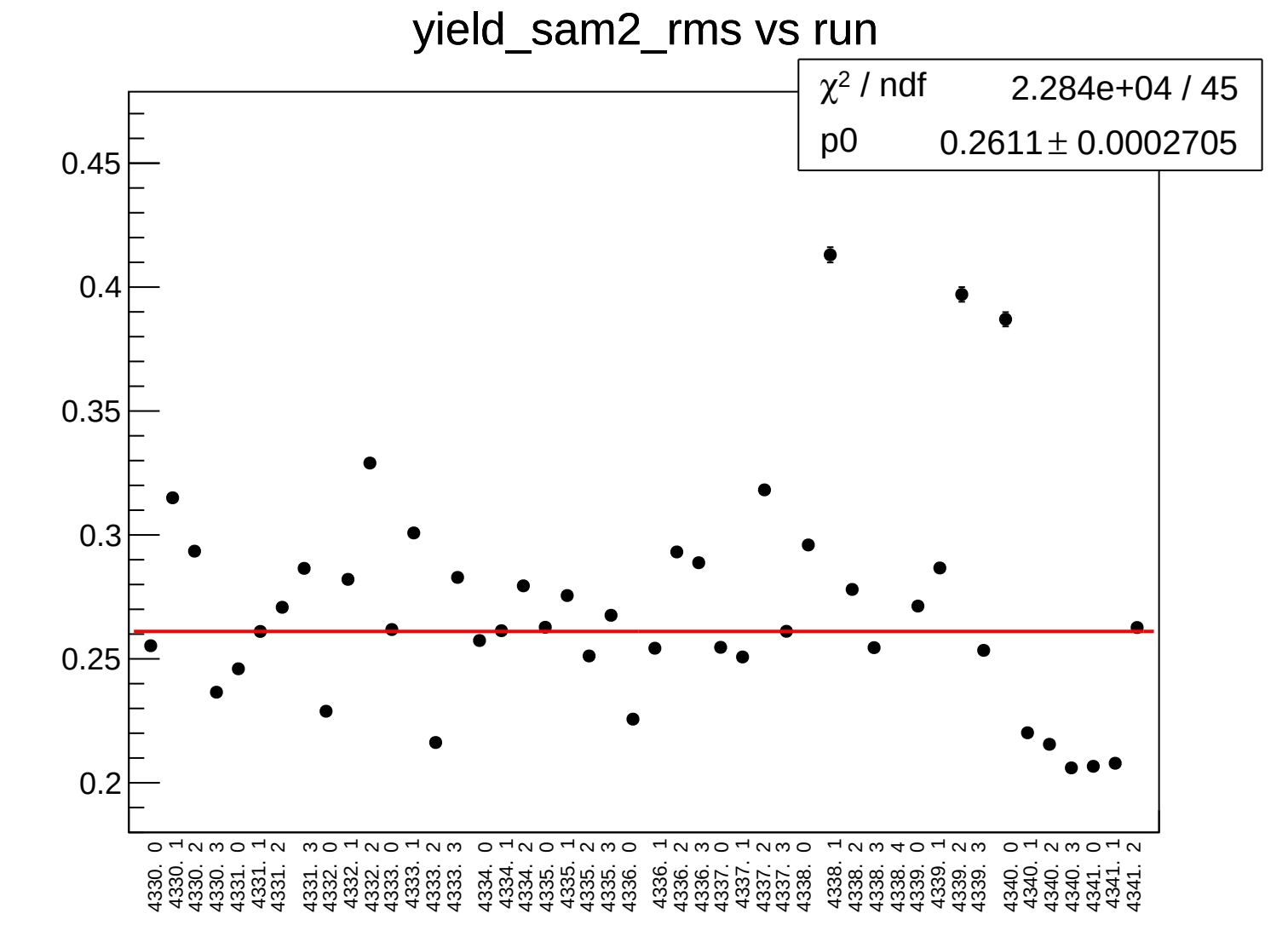

asym_sam8_rms vs run
χ² / ndf 407.9 / 45
p0 1531 ± 1.568
1650
1600
1550
1500
1450
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

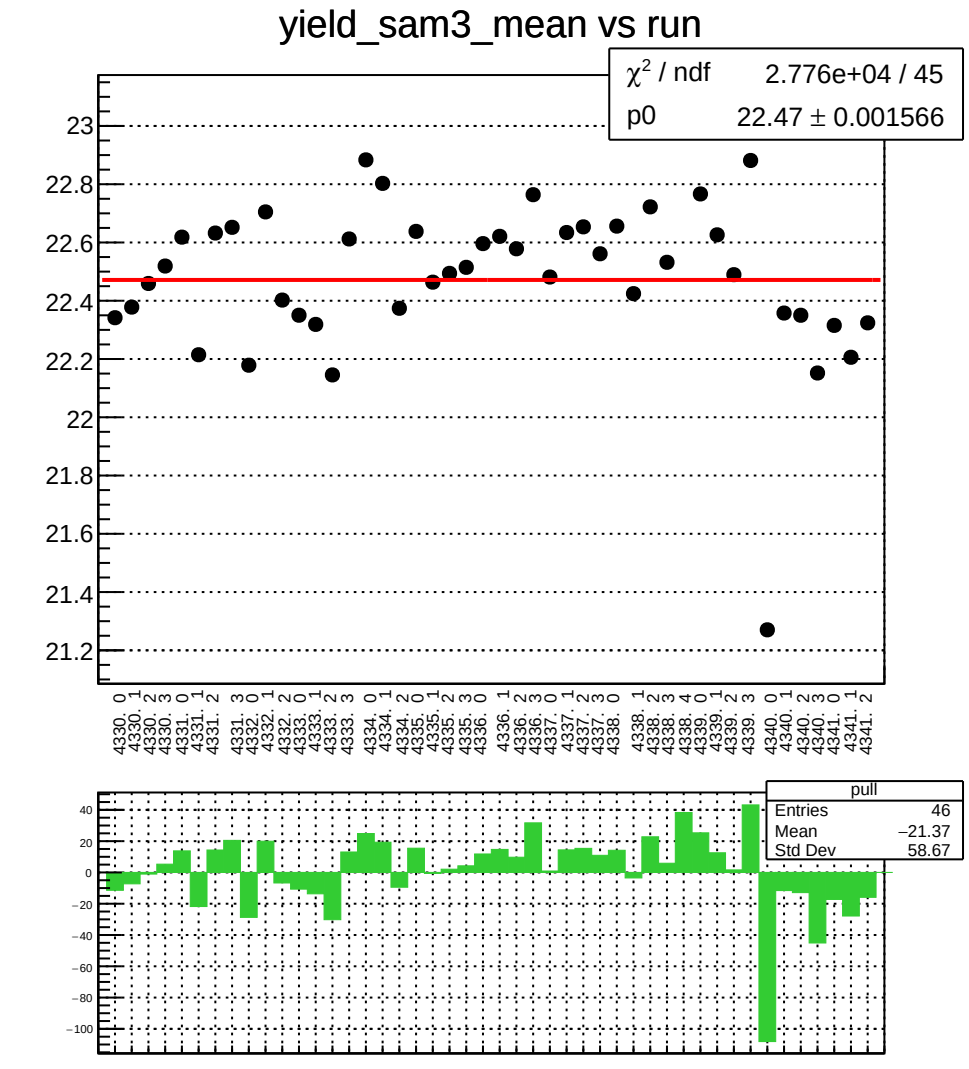

yield_sam1_mean vs run
χ² / ndf 3.311e+05 / 45
p0 3.842 ± 4.262e−05
3.88
3.86
3.84
3.82
3.8
3.78
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −77.46
Std Dev 97.31
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 46
Mean 1.843
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

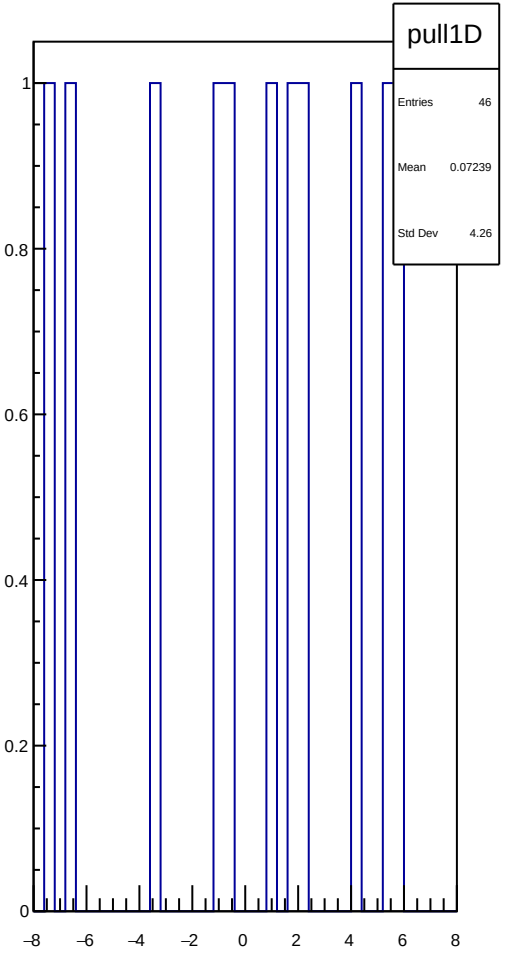

yield_sam1_rms vs run
χ² / ndf 1.249e+05 / 45
p0 0.02745 ± 3.014e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

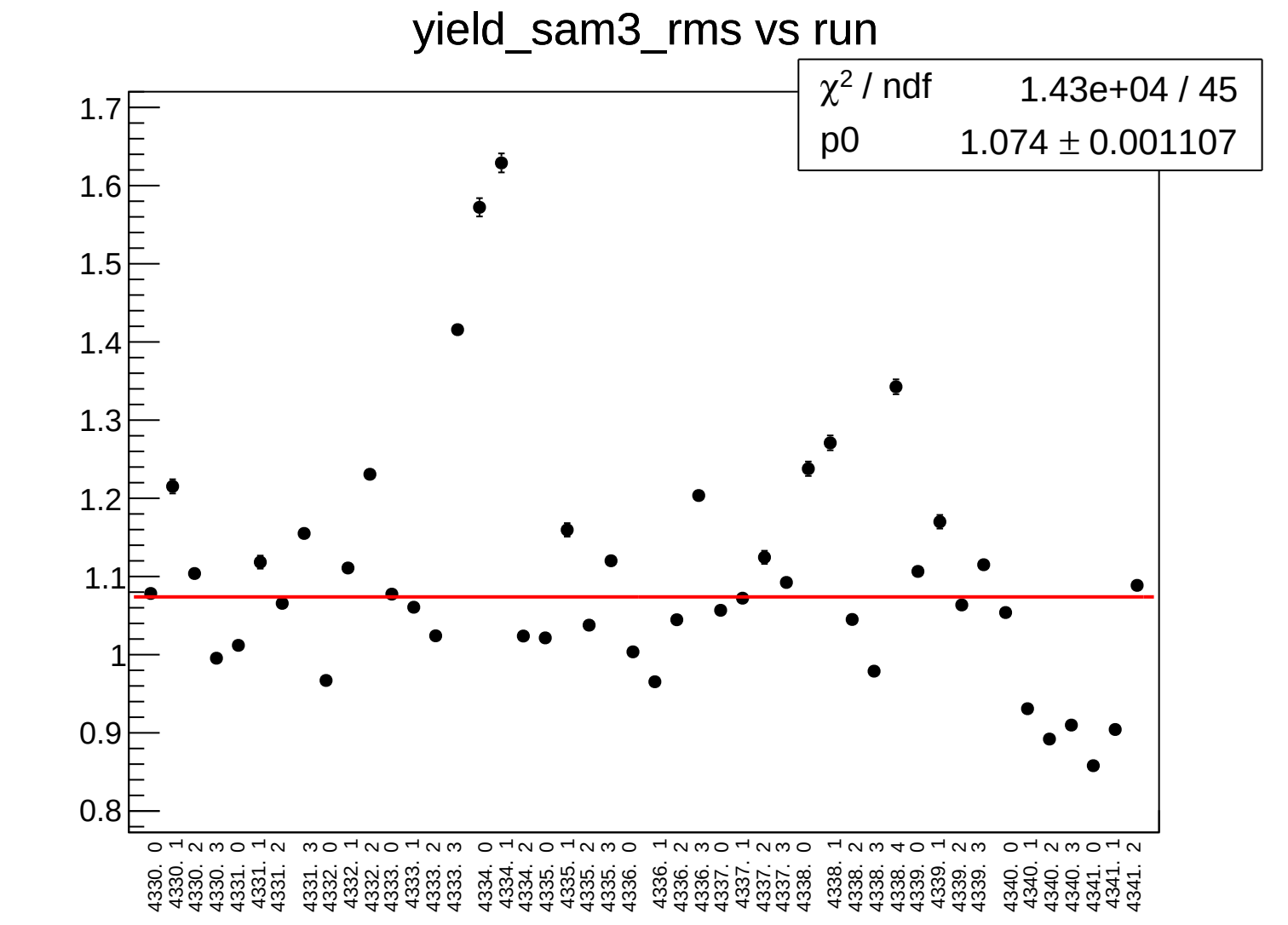

yield_sam2_mean vs run
χ² / ndf 1.026e+05 / 45
p0 7.589 ± 0.0003825
pull
Entries 46
Mean 13.36
Std Dev 45.45

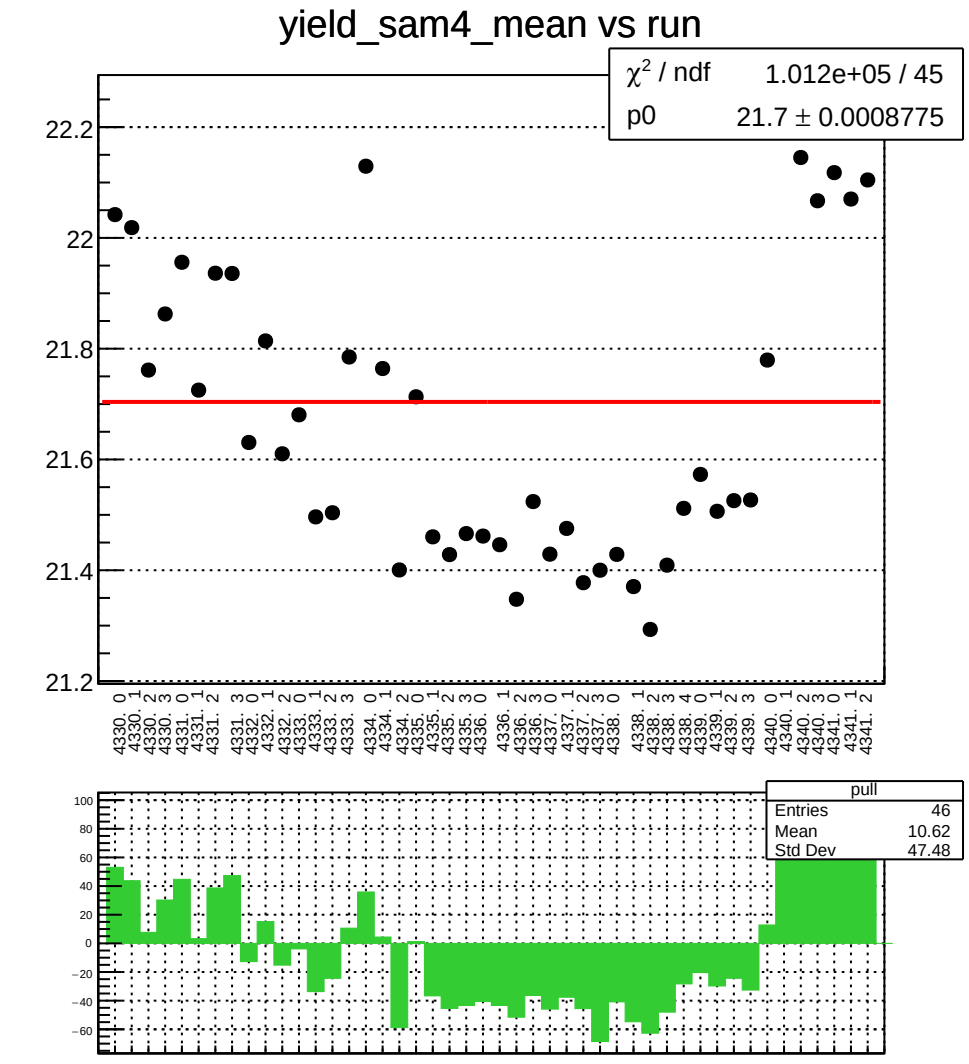

pull1D
Entries 46
Mean −1.891
Std Dev 3.931

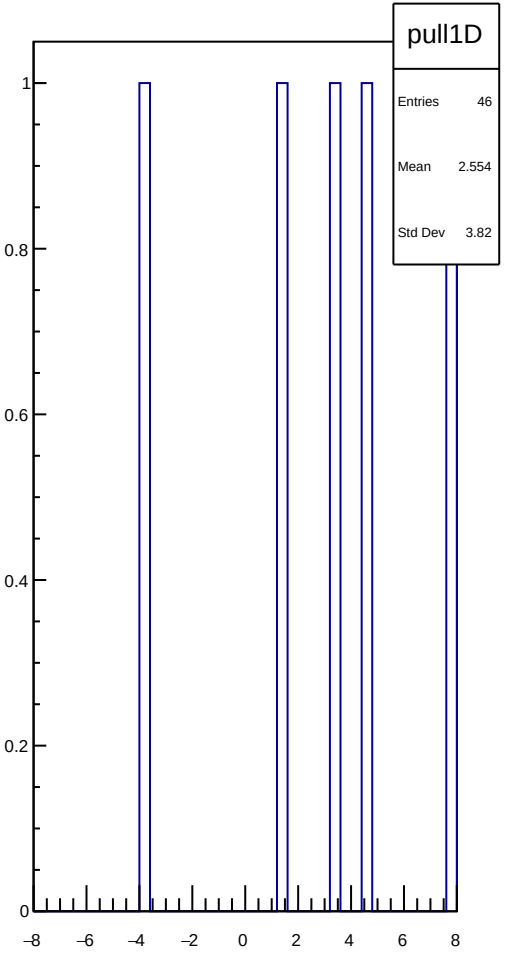

yield_sam2_rms vs run
χ² / ndf 2.284e+04 / 45
p0 0.2611 ± 0.0002705
0.45
0.4
0.35
0.3
0.25
0.2
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

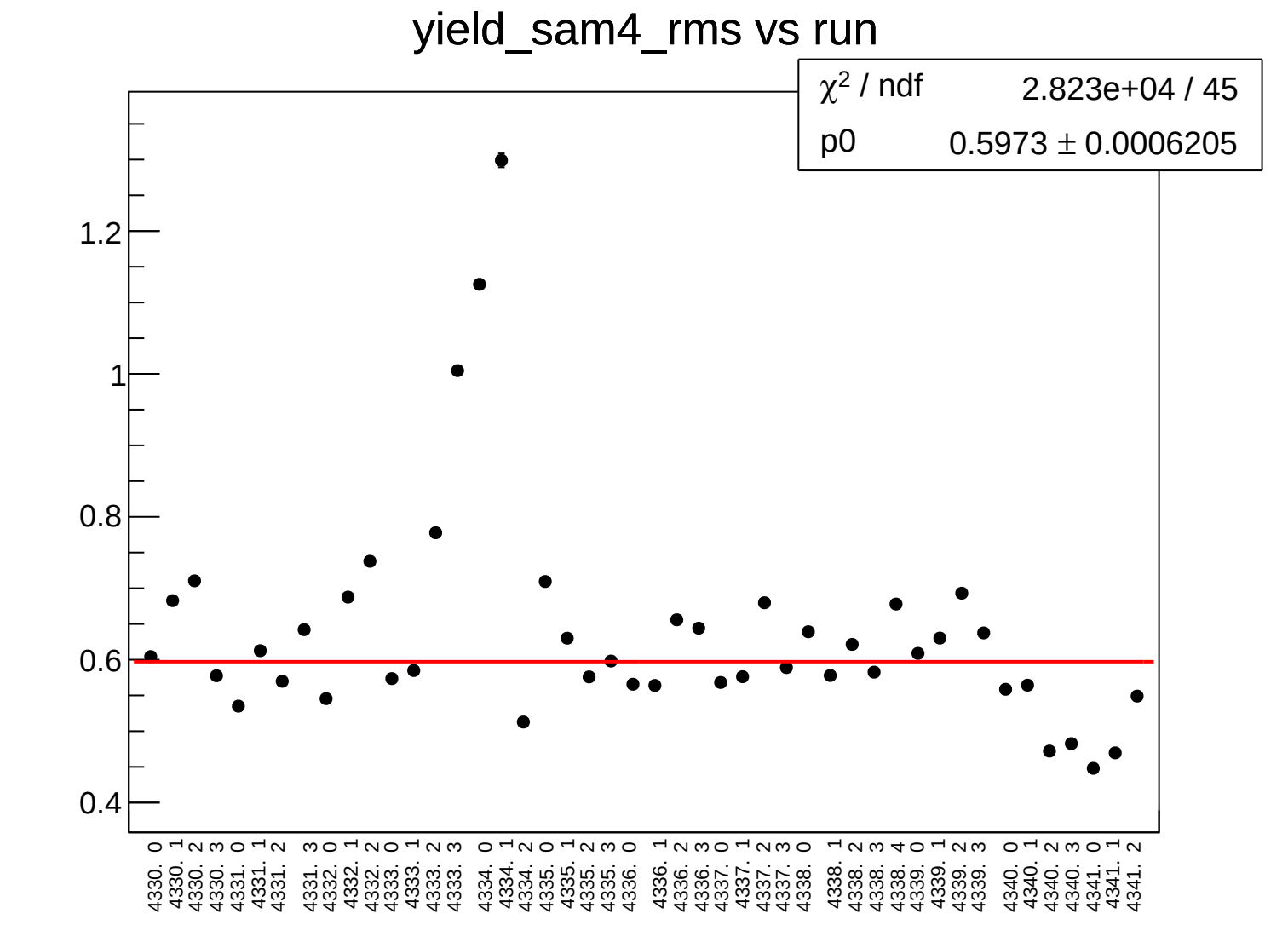

yield_sam3_mean vs run
χ² / ndf 2.776e+04 / 45
p0 22.47 ± 0.001566
pull
Entries 46
Mean −21.37
Std Dev 58.67

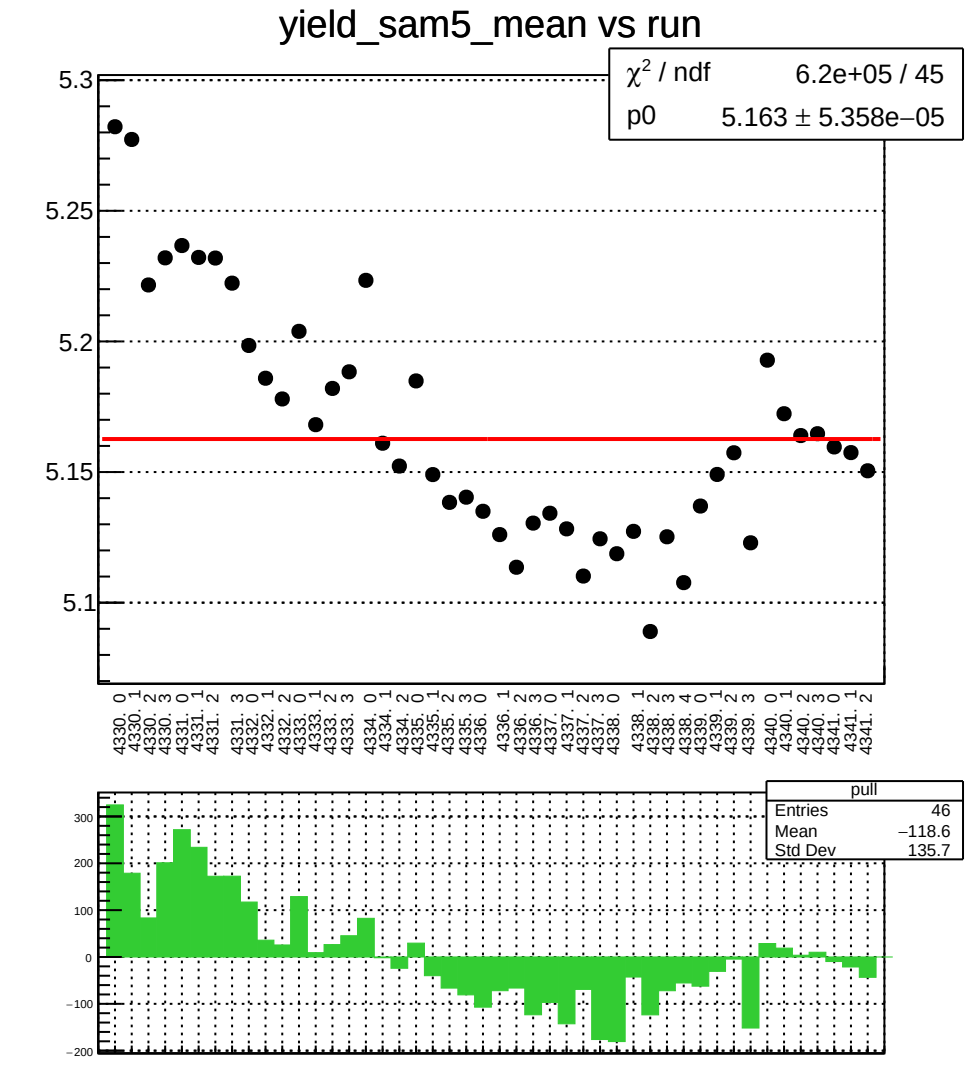

pull1D
Entries 46
Mean 0.07239
Std Dev 4.26

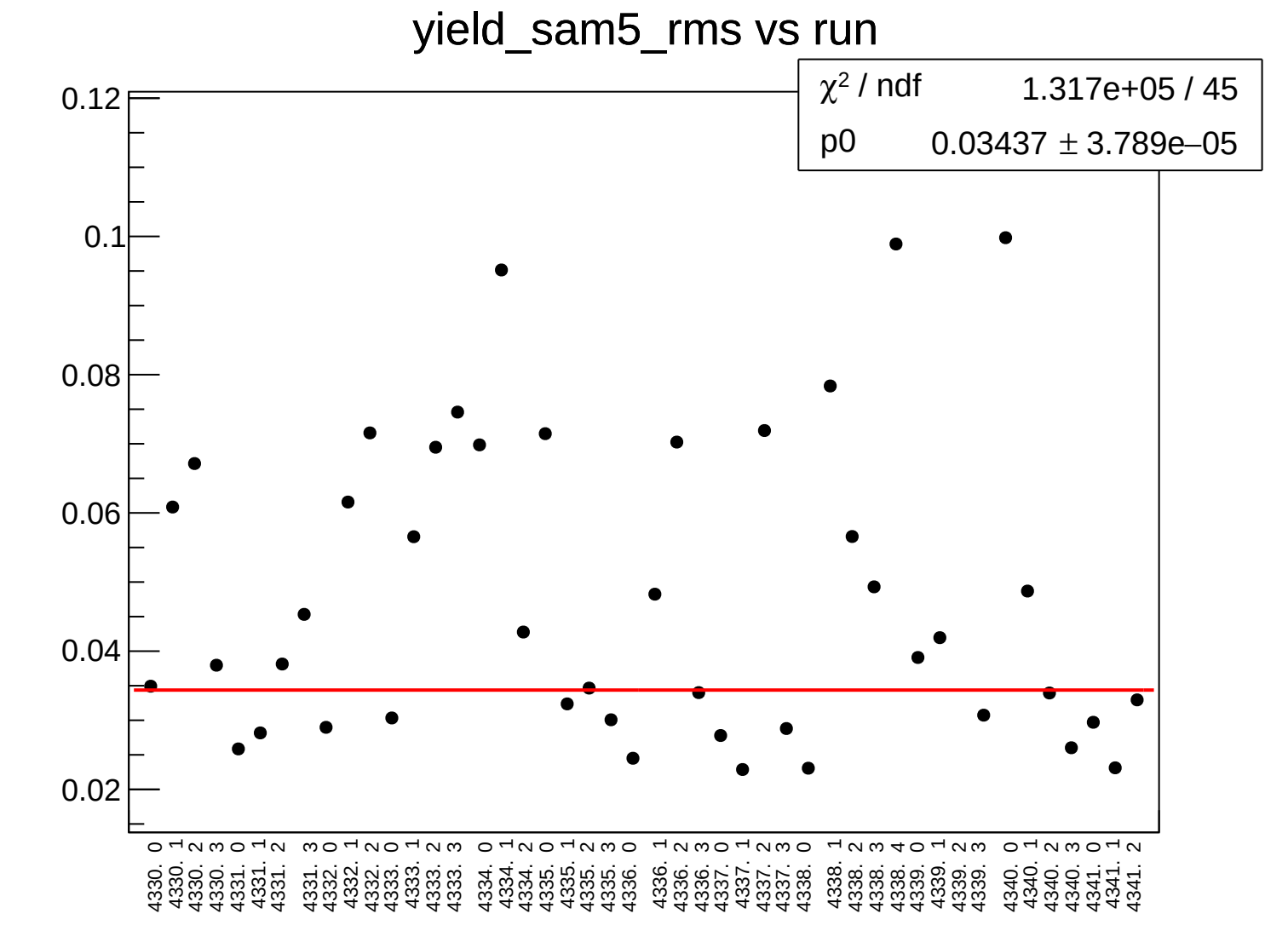

yield_sam3_rms vs run
χ^2 / ndf 1.43e+04 / 45
p0 1.074 ± 0.001107
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

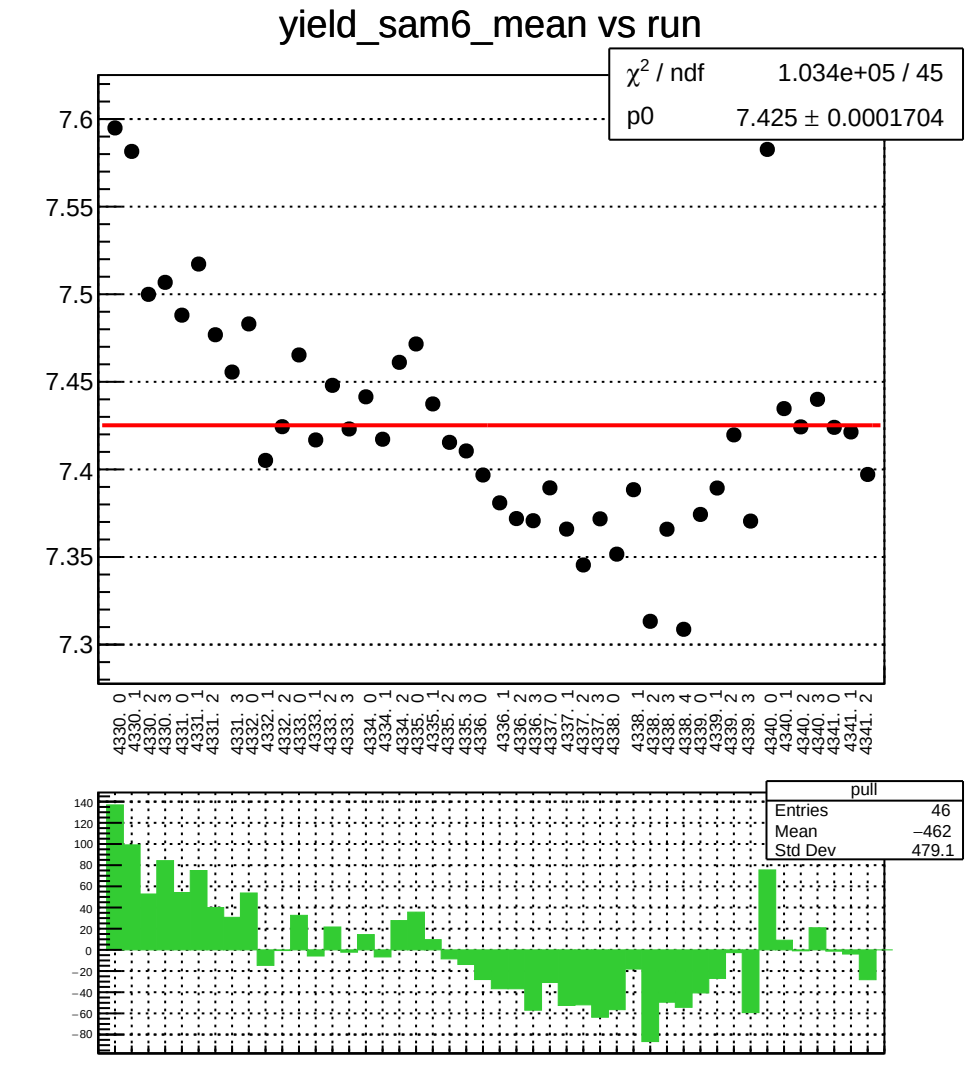

yield_sam4_mean vs run
χ² / ndf 1.012e+05 / 45
p0 21.7 ± 0.0008775
22.2
22
21.8
21.6
21.4
21.2
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 10.62
Std Dev 47.48
100
80
60
40
20
0
−20
−40
−60

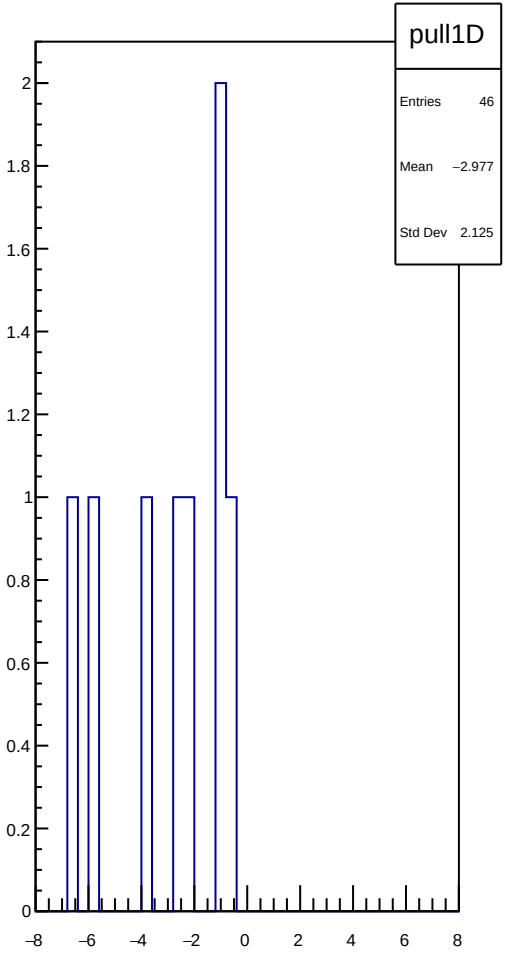

pull1D
Entries 46
Mean 2.554
Std Dev 3.82
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

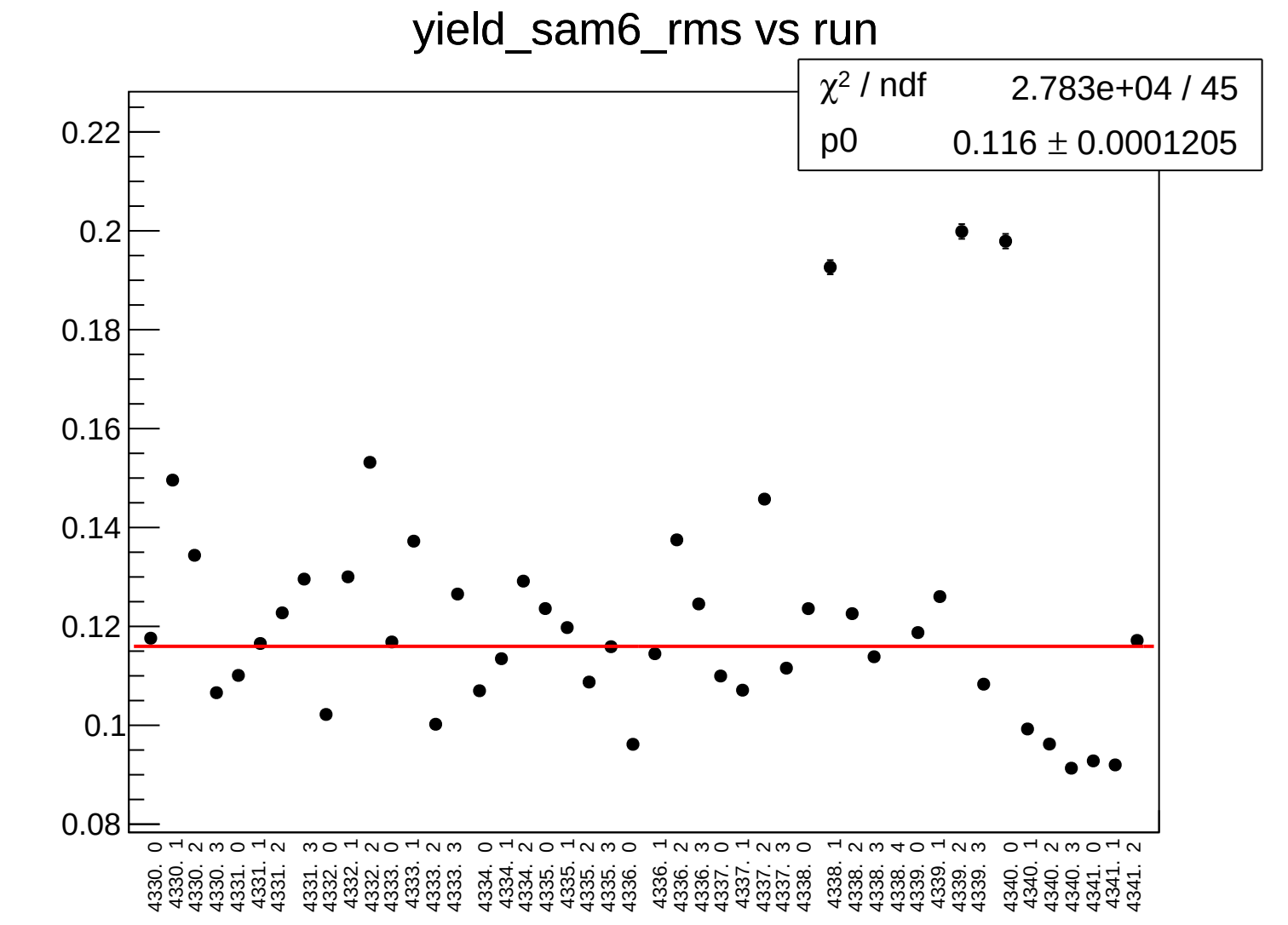

yield_sam4_rms vs run
χ² / ndf 2.823e+04 / 45
p0 0.5973 ± 0.0006205
1.2
1
0.8
0.6
0.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

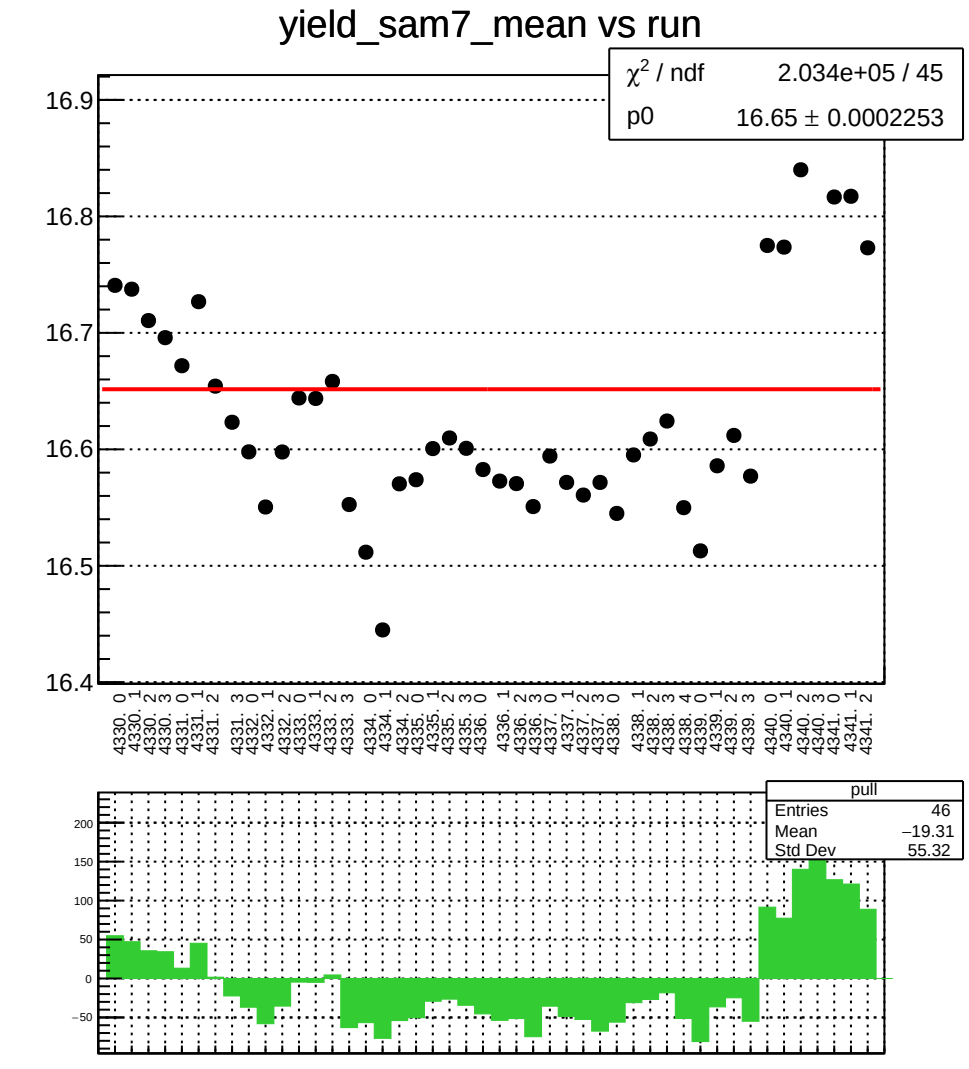

yield_sam5_mean vs run
χ² / ndf 6.2e+05 / 45
p0 5.163 ± 5.358e−05
5.3
5.25
5.2
5.15
5.1
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −118.6
Std Dev 135.7
300
200
100
0
−100
−200
pull1D
Entries 46
Mean −0.7891
Std Dev 3.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

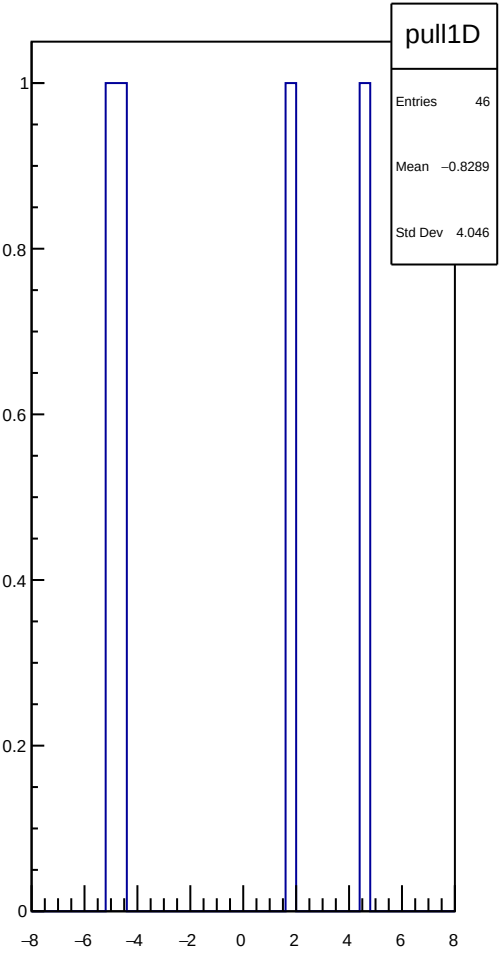

yield_sam5_rms vs run
χ² / ndf 1.317e+05 / 45
p0 0.03437 ± 3.789e–05
0.12
0.1
0.08
0.06
0.04
0.02
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

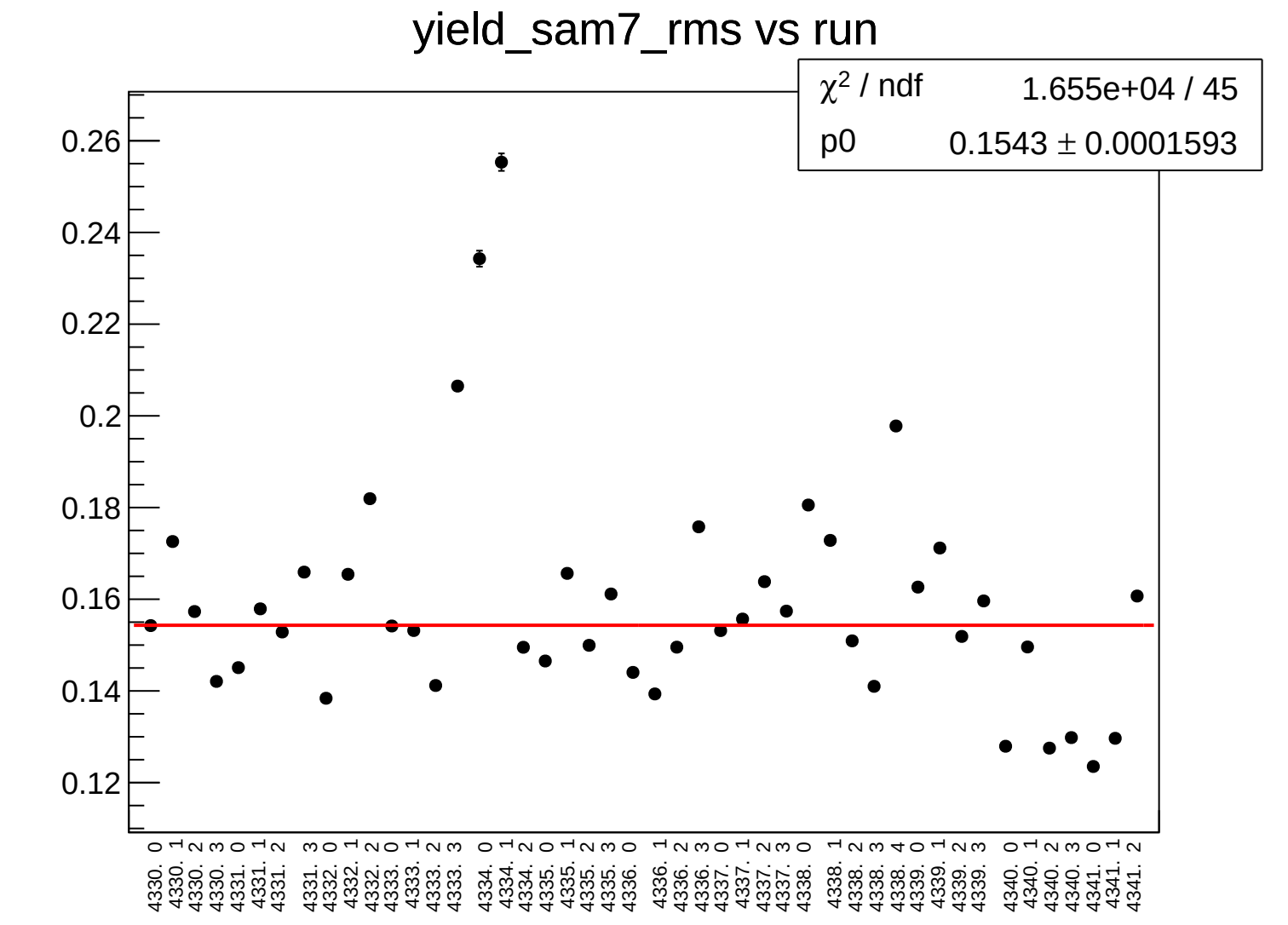

yield_sam6_mean vs run
χ² / ndf 1.034e+05 / 45
p0 7.425 ± 0.0001704
7.6
7.55
7.5
7.45
7.4
7.35
7.3
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −462
Std Dev 479.1
140
120
100
80
60
40
20
0
−20
−40
−60
−80

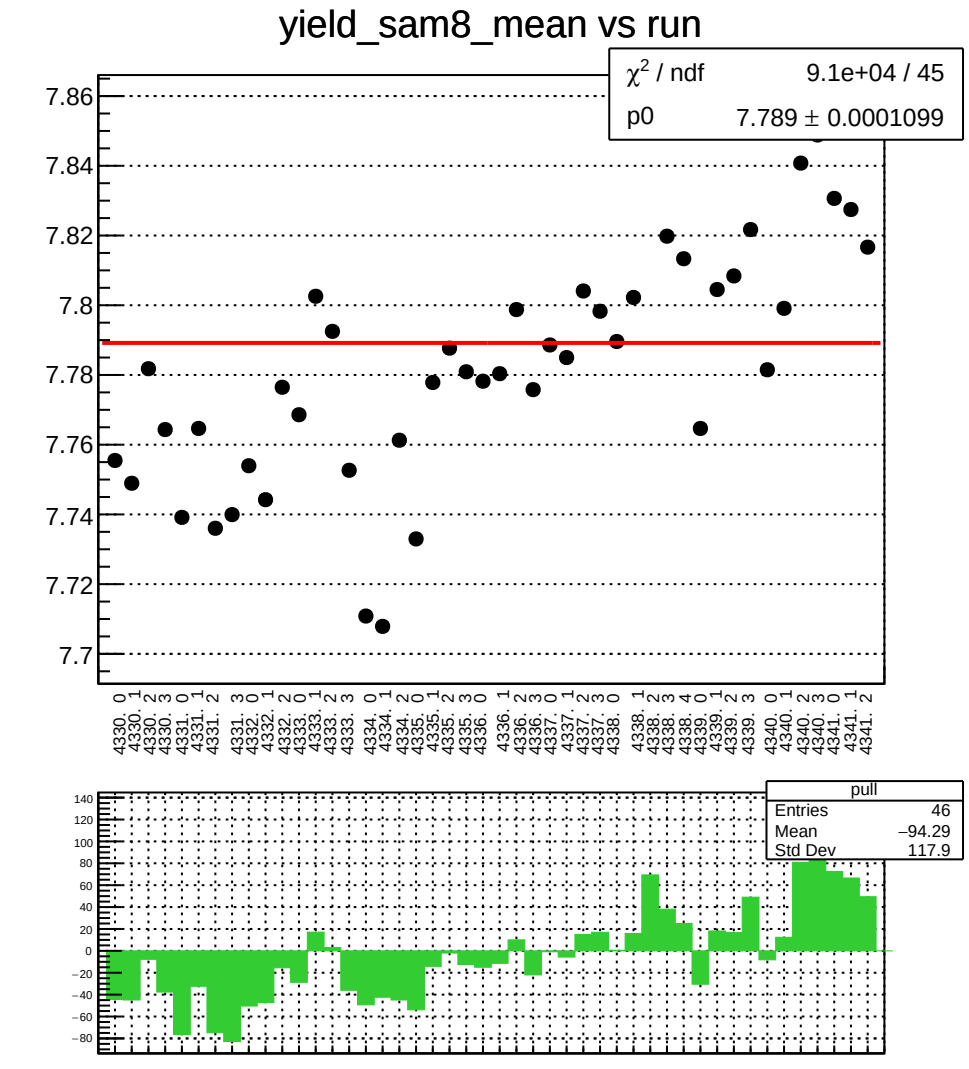

pull1D
Entries 46
Mean −2.977
Std Dev 2.125
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

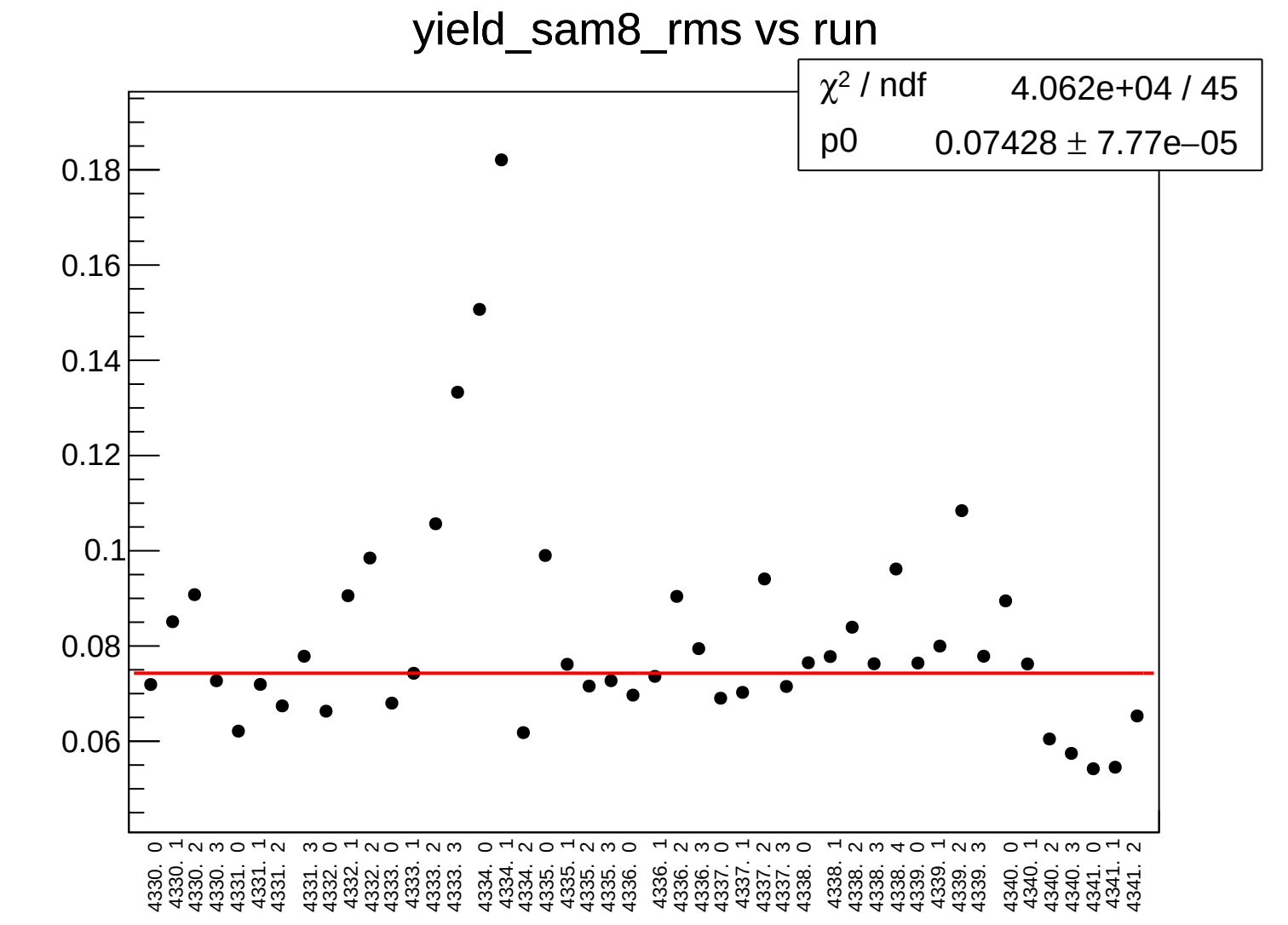

yield_sam6_rms vs run
χ² / ndf 2.783e+04 / 45
p0 0.116 ± 0.0001205
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

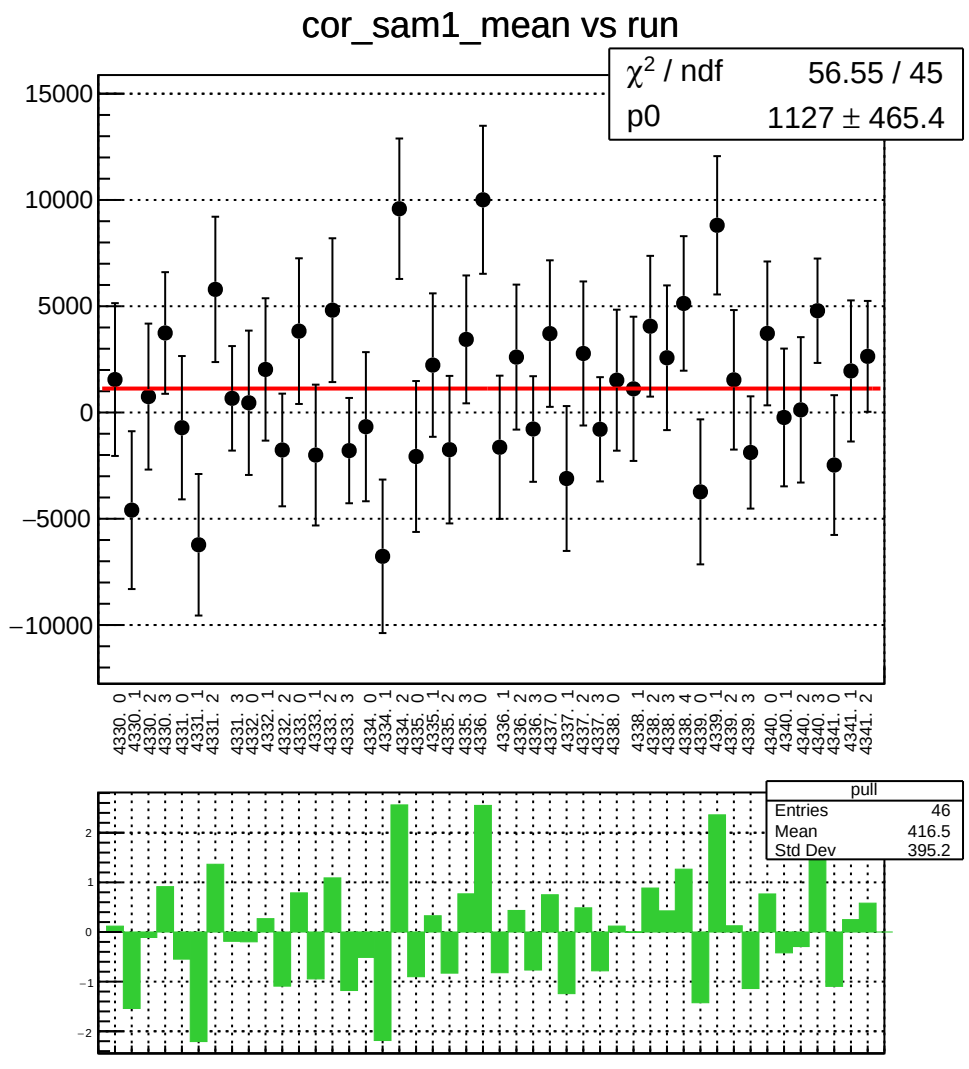

yield_sam7_mean vs run
χ² / ndf 2.034e+05 / 45
p0 16.65 ± 0.0002253
16.9
16.8
16.7
16.6
16.5
16.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −19.31
Std Dev 55.32
200
150
100
50
0
−50

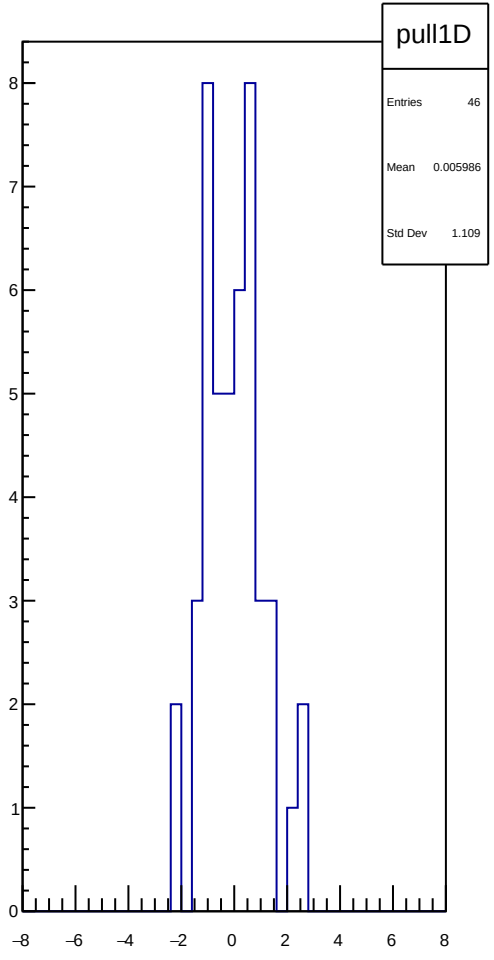

pull1D
Entries 46
Mean −0.8289
Std Dev 4.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

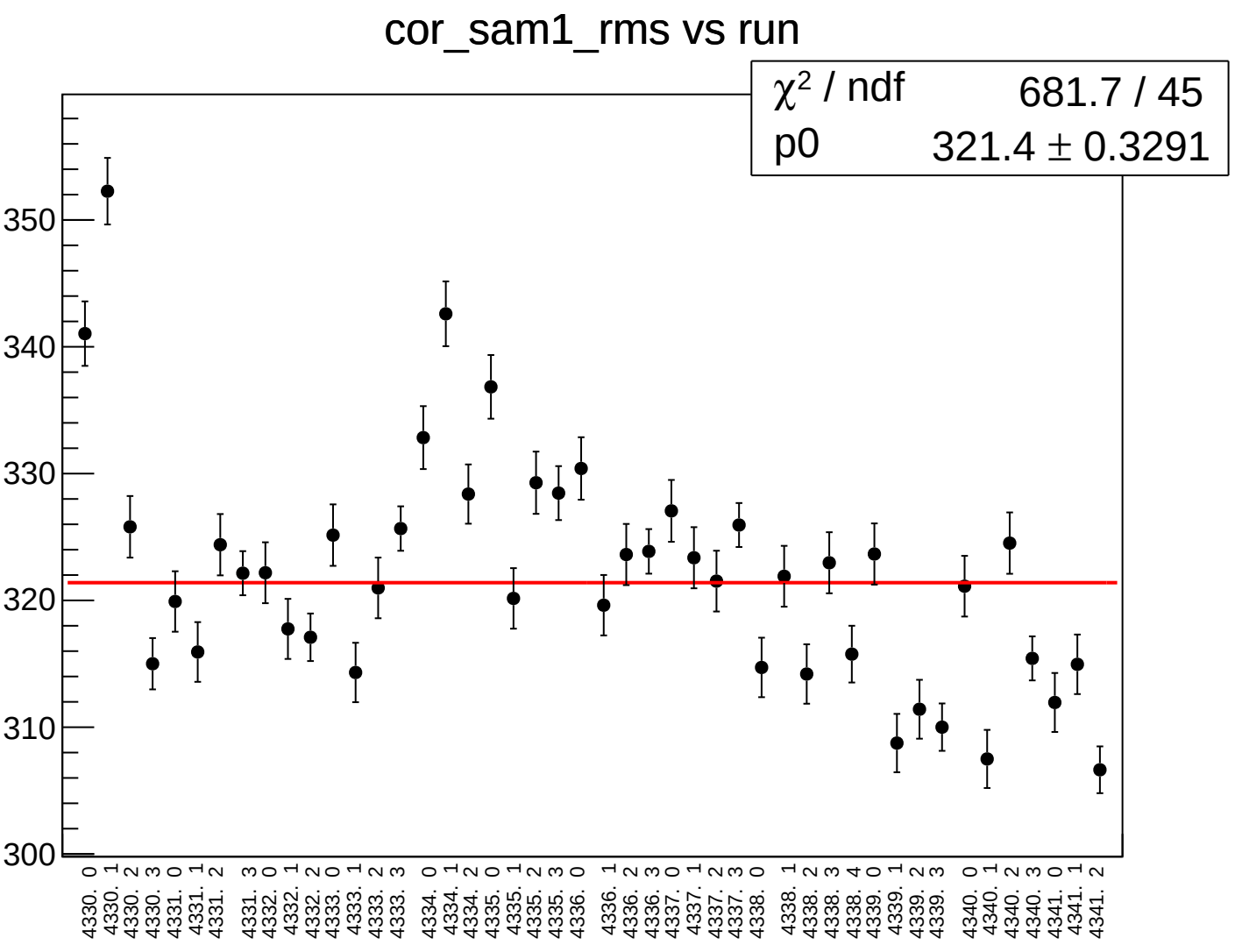

yield_sam7_rms vs run
χ² / ndf 1.655e+04 / 45
p0 0.1543 ± 0.0001593
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

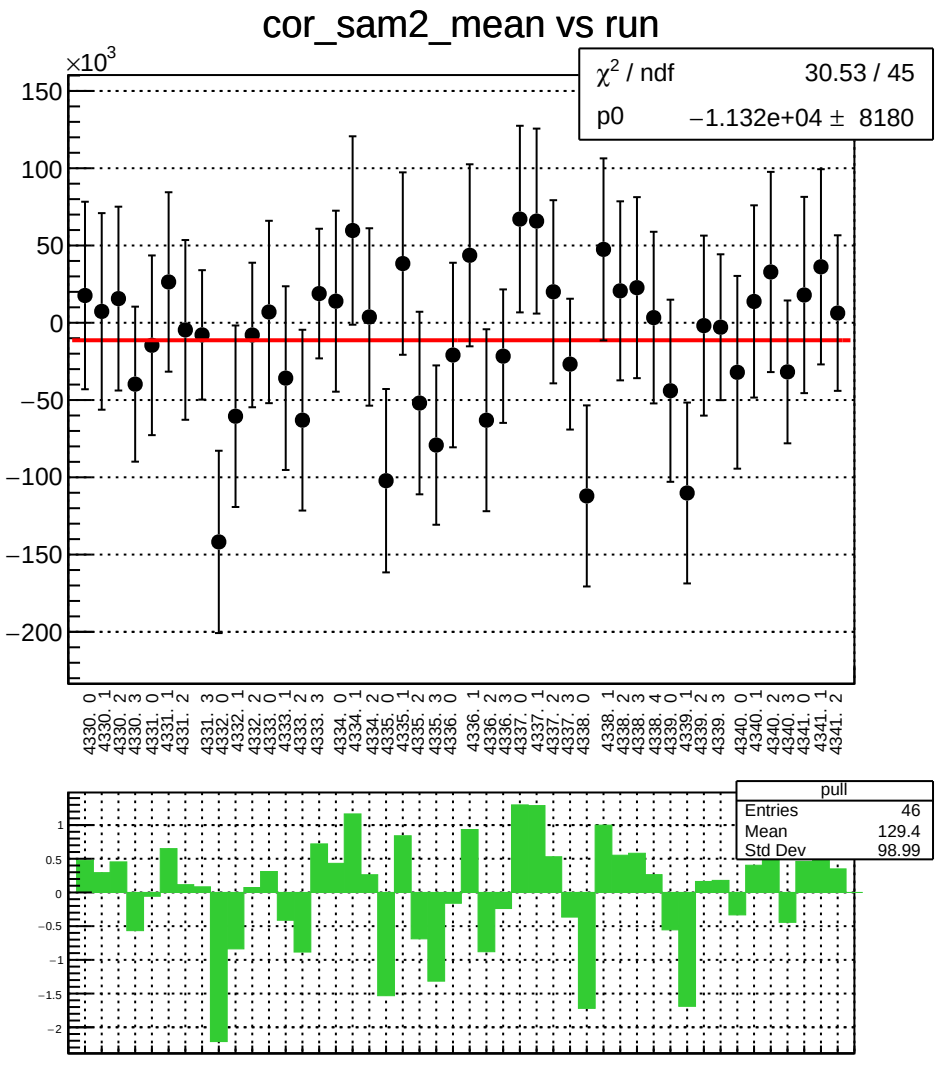

yield_sam8_mean vs run
χ² / ndf 9.1e+04 / 45
p0 7.789 ± 0.0001099
7.86
7.84
7.82
7.8
7.78
7.76
7.74
7.72
7.7
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −94.29
Std Dev 117.9
140
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 46
Mean −2.119
Std Dev 3.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

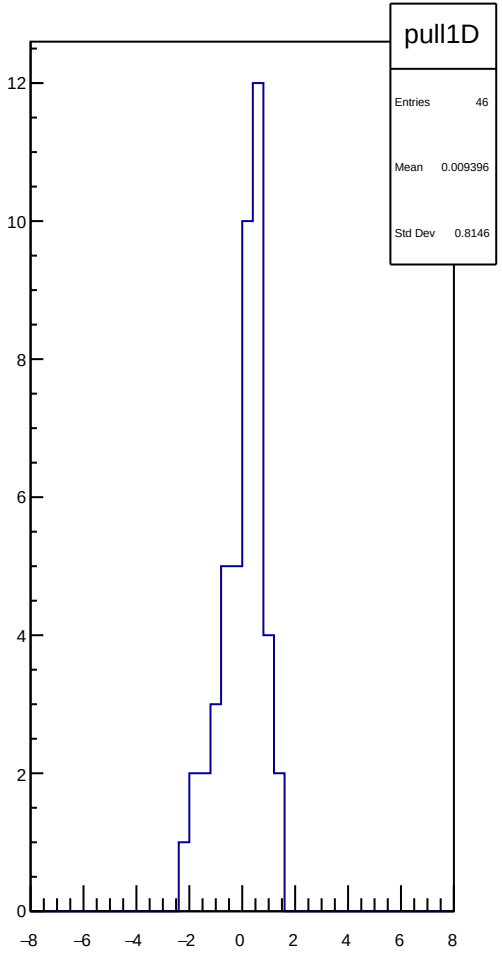

yield_sam8_rms vs run
χ² / ndf 4.062e+04 / 45
p0 0.07428 ± 7.77e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

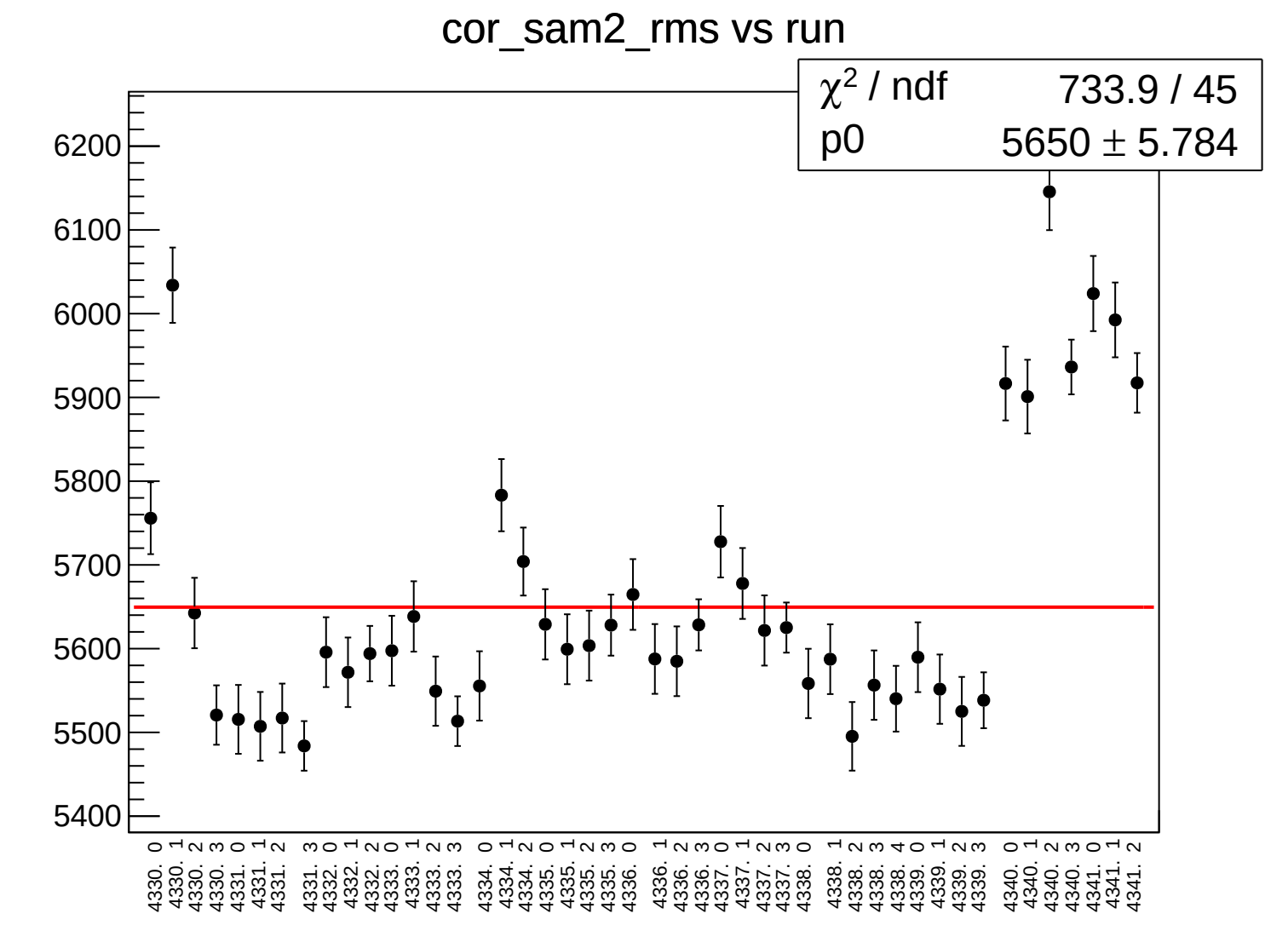

cor_sam1_mean vs run
χ² / ndf 56.55 / 45
p0 1127 ± 465.4
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 416.5
Std Dev 395.2
2
1
0
−1
−2

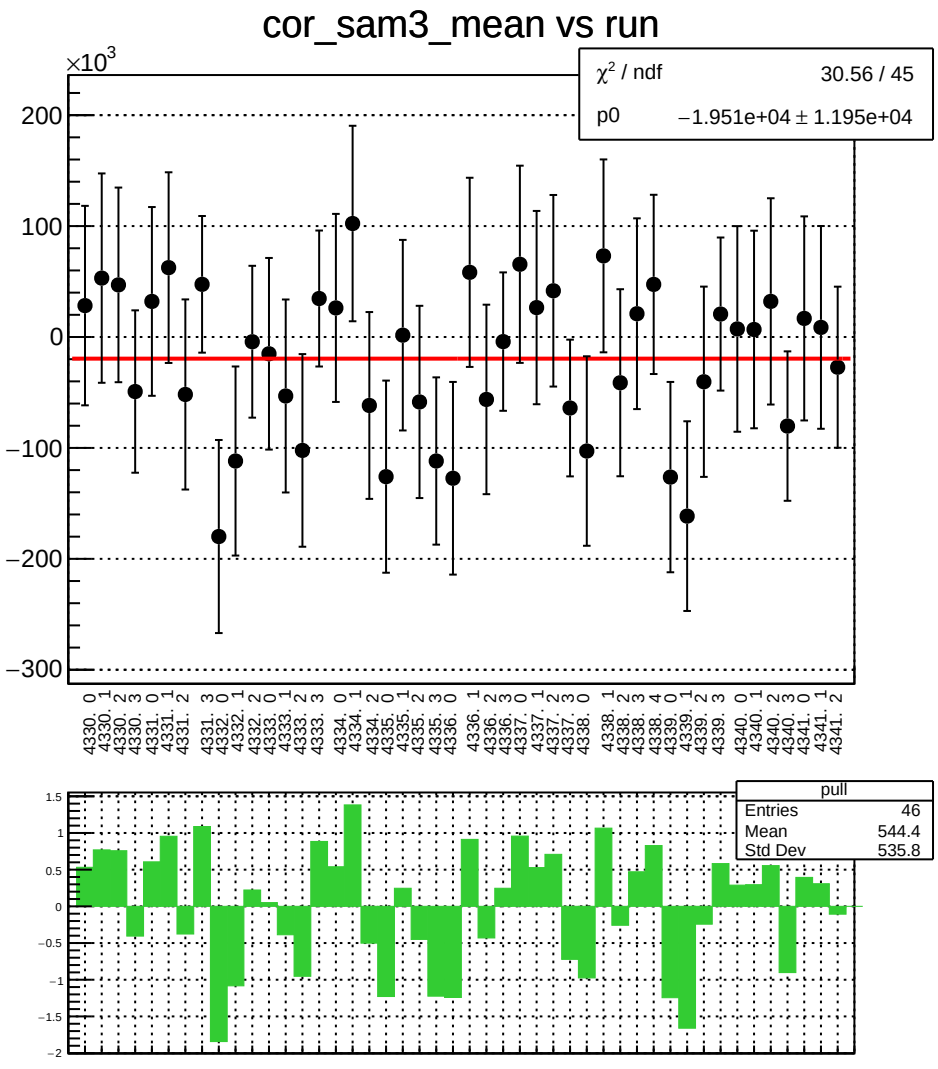

pull1D
Entries 46
Mean 0.005986
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

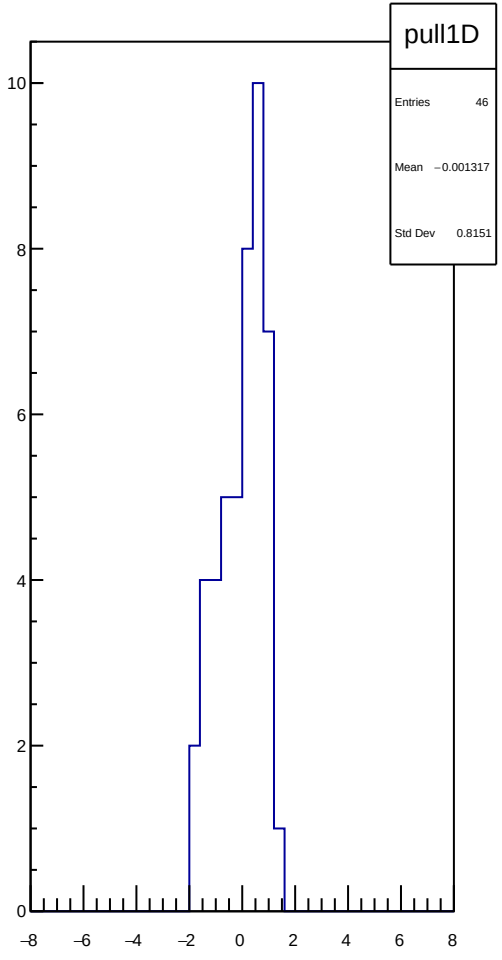

cor_sam1_rms vs run
χ² / ndf 681.7 / 45
p0 321.4 ± 0.3291
350
340
330
320
310
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

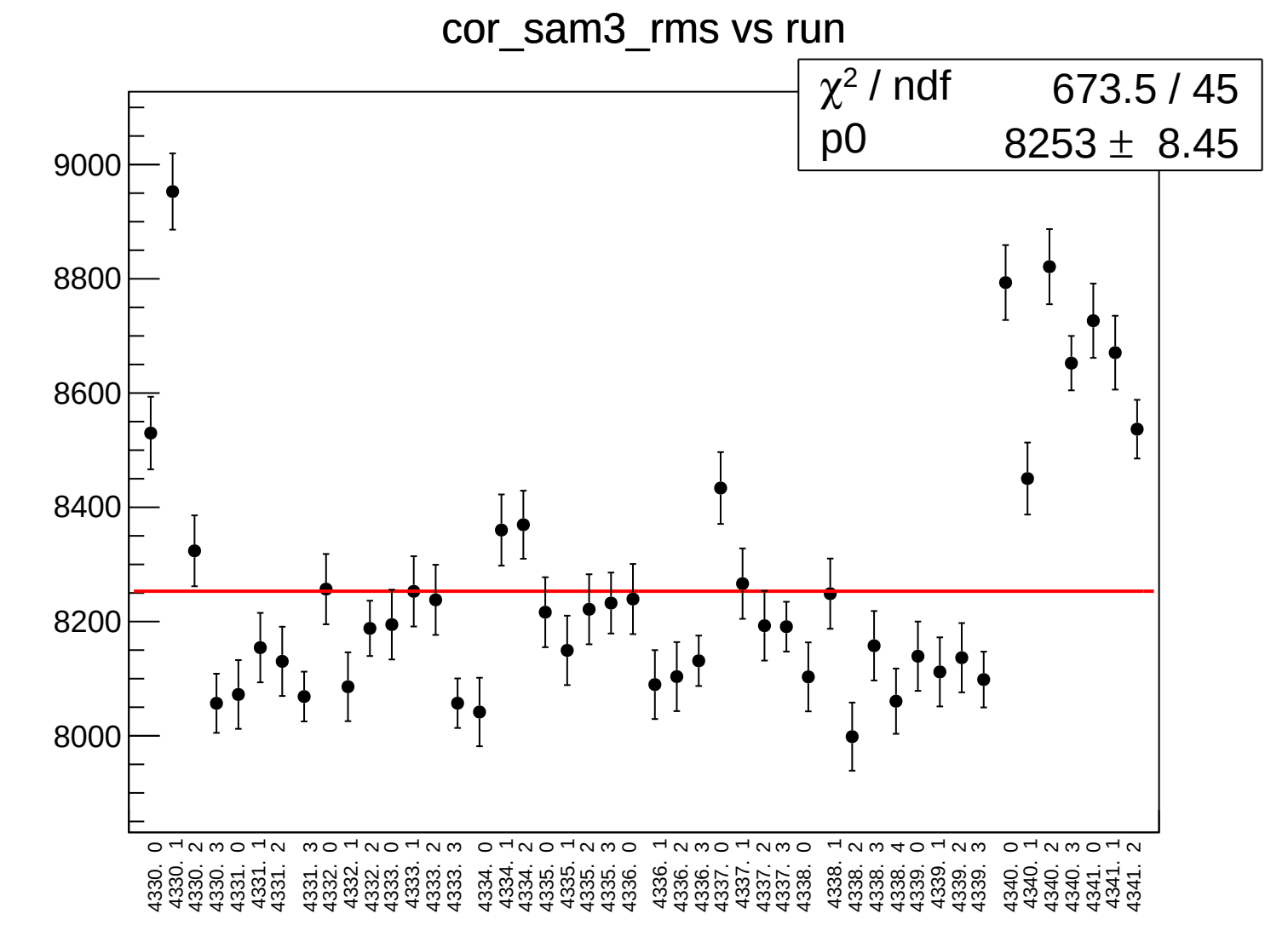

cor_sam2_mean vs run
×10^3
χ² / ndf 30.53 / 45
p0 −1.132e+04 ± 8180
150
100
50
0
−50
−100
−150
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 129.4
Std Dev 98.99
1
0.5
0
−0.5
−1
−1.5
−2

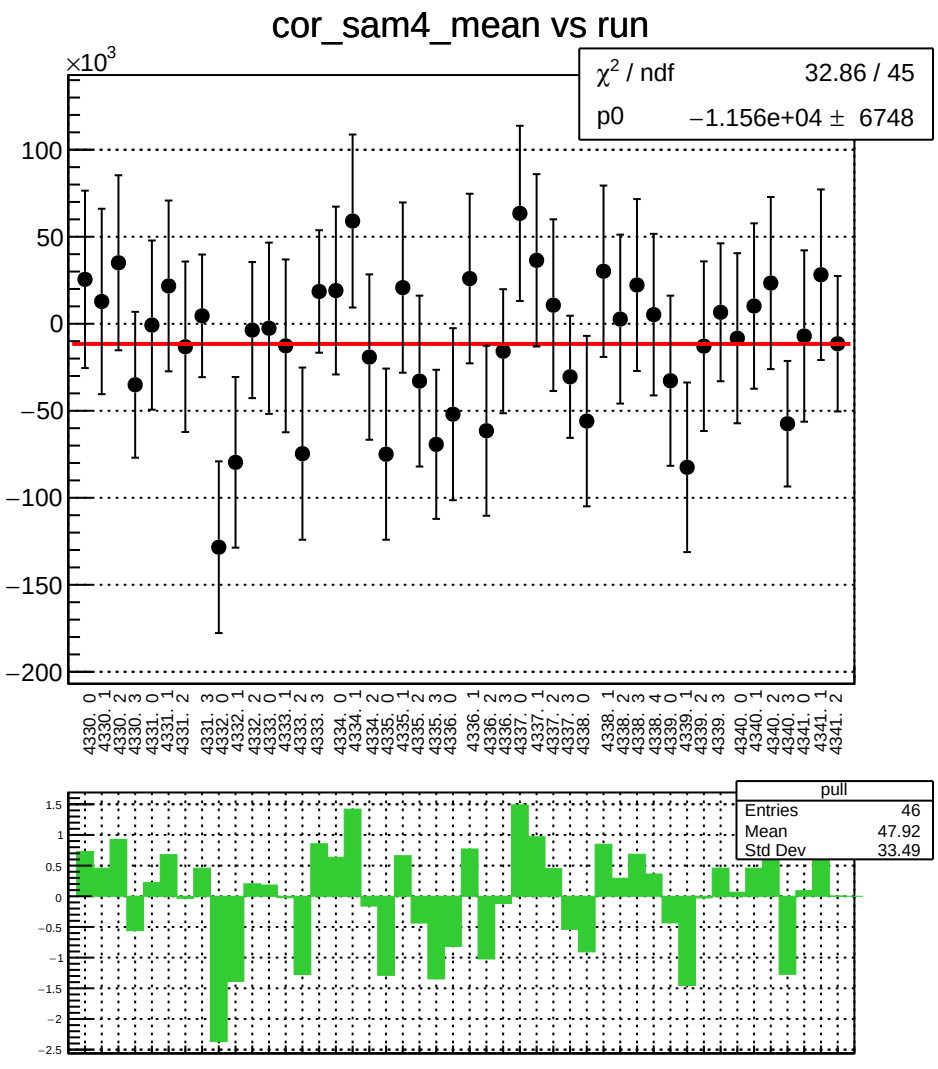

pull1D
Entries 46
Mean 0.009396
Std Dev 0.8146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

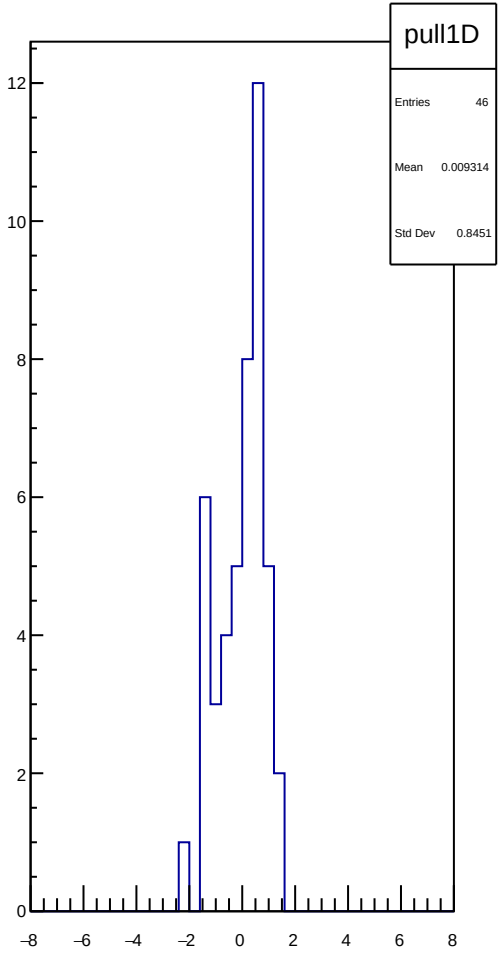

cor_sam2_rms vs run
χ² / ndf 733.9 / 45
p0 5650 ± 5.784
6200
6100
6000
5900
5800
5700
5600
5500
5400
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

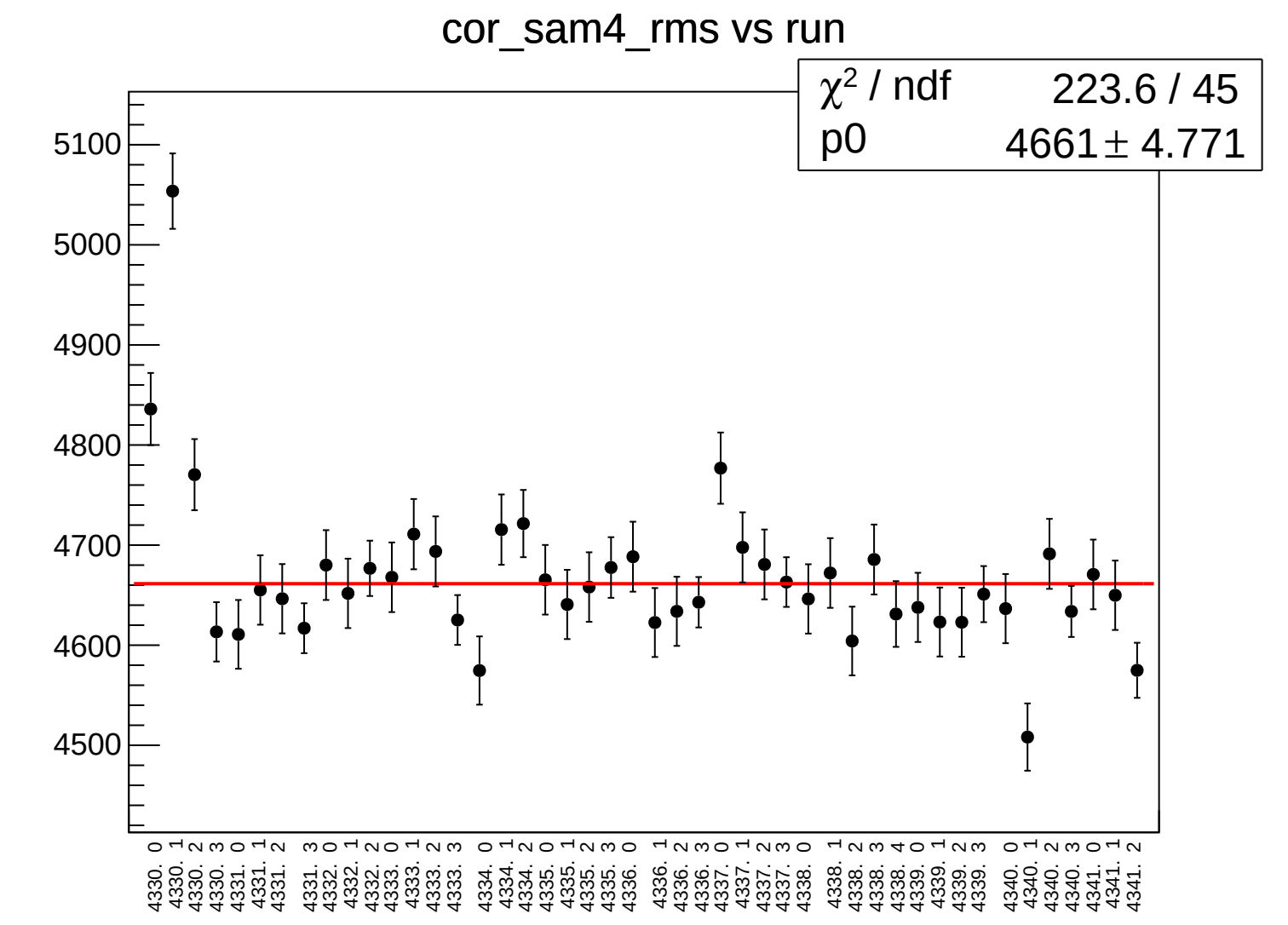

cor_sam3_mean vs run
×10^3
χ² / ndf 30.56 / 45
p0 −1.951e+04 ± 1.195e+04
200
100
0
−100
−200
−300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 544.4
Std Dev 535.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

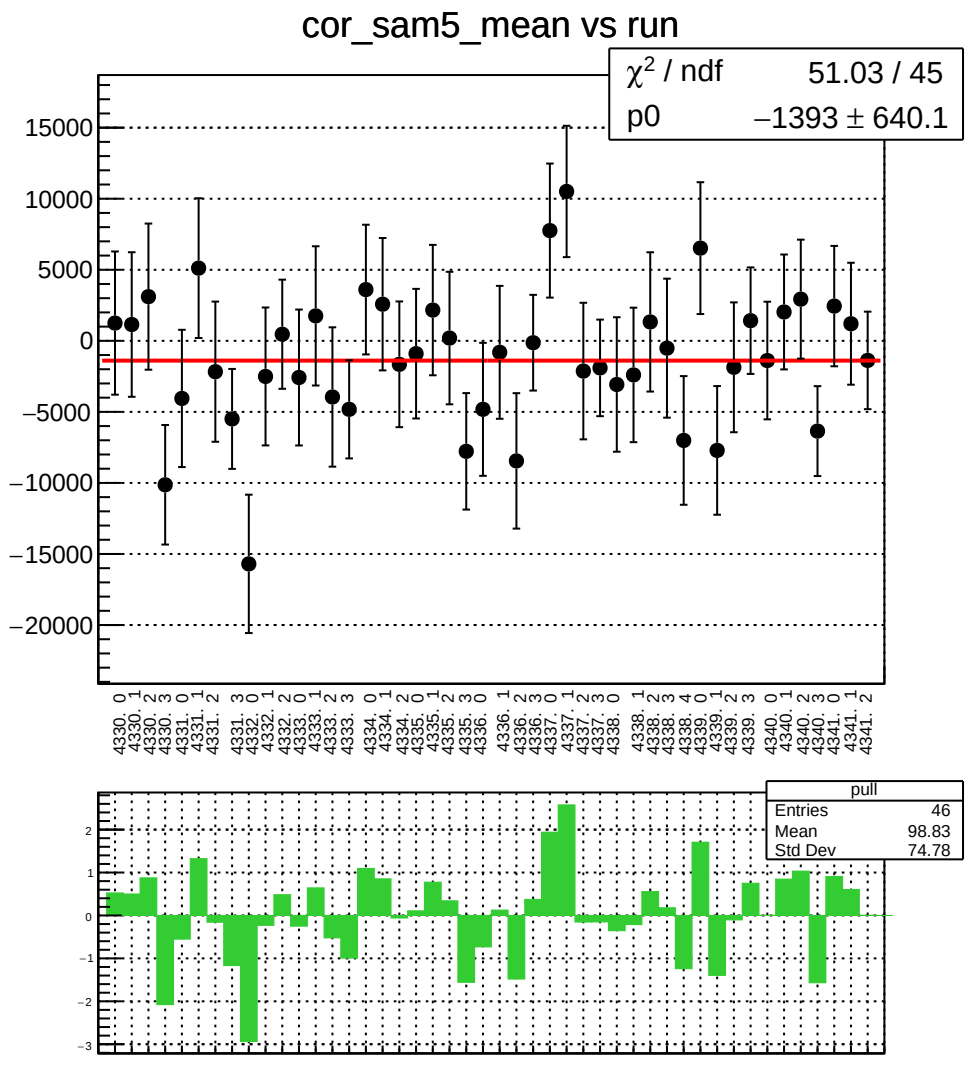

pull1D
Entries 46
Mean −0.001317
Std Dev 0.8151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

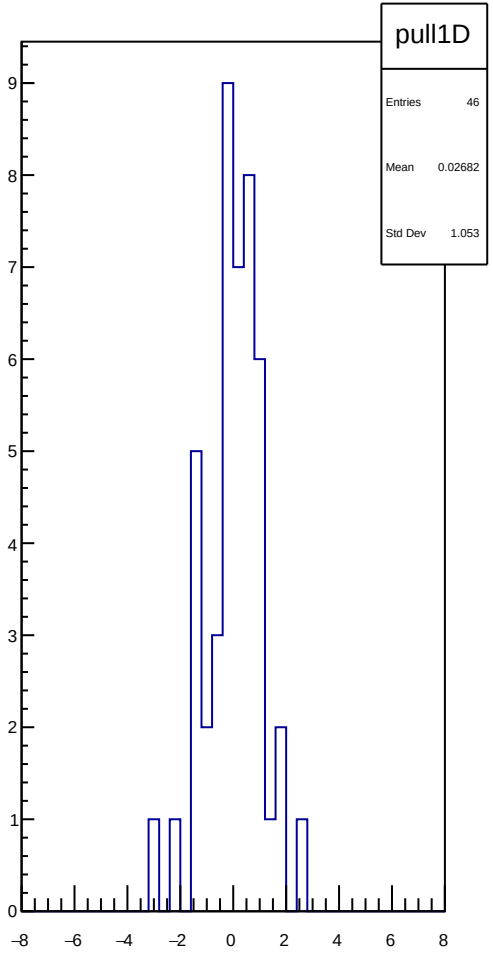

cor_sam3_rms vs run
χ² / ndf 673.5 / 45
p0 8253 ± 8.45
9000
8800
8600
8400
8200
8000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

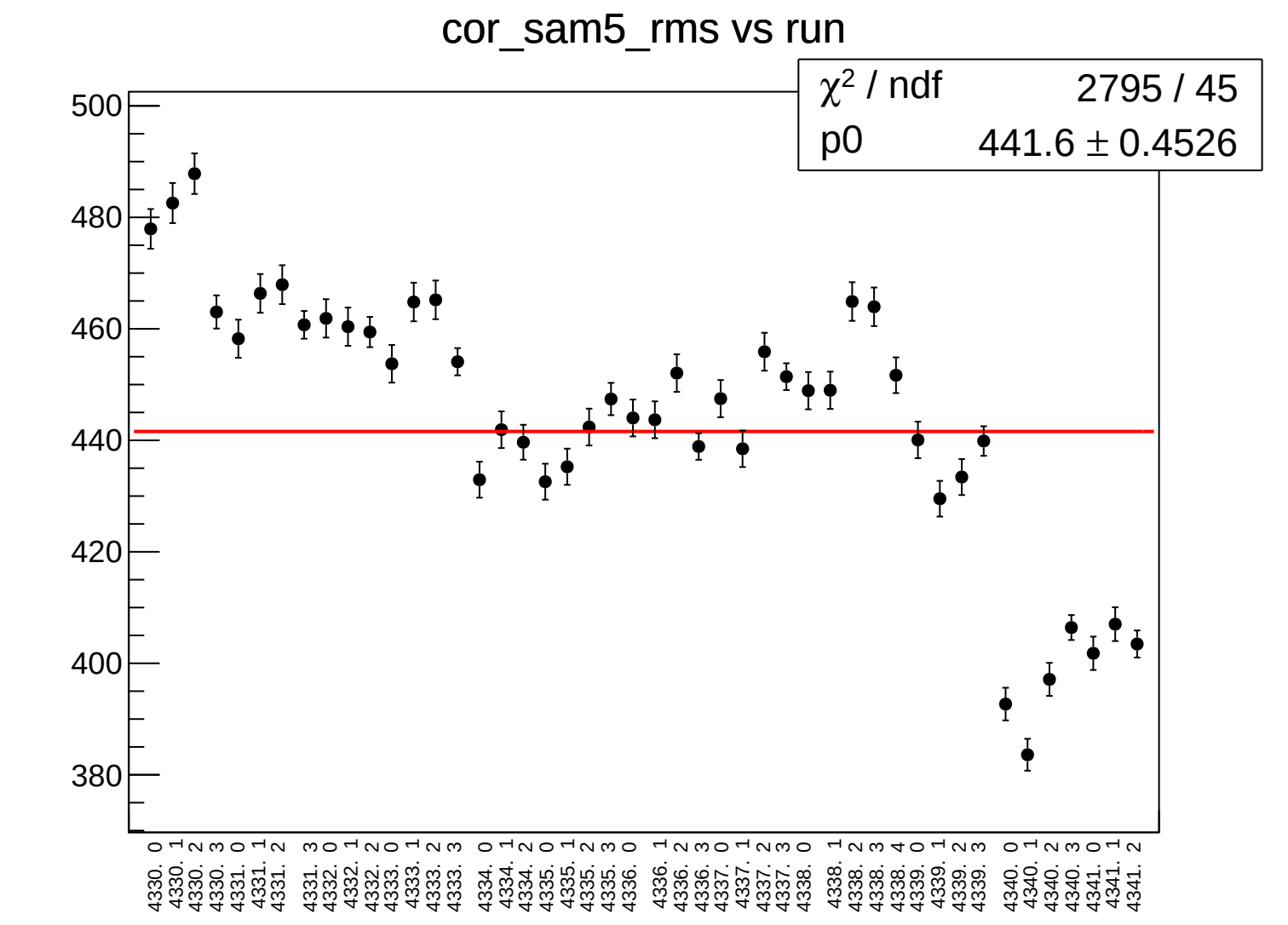

cor_sam4_mean vs run
×10^3
χ² / ndf 32.86 / 45
p0 −1.156e+04 ± 6748
100
50
0
−50
−100
−150
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 47.92
Std Dev 33.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

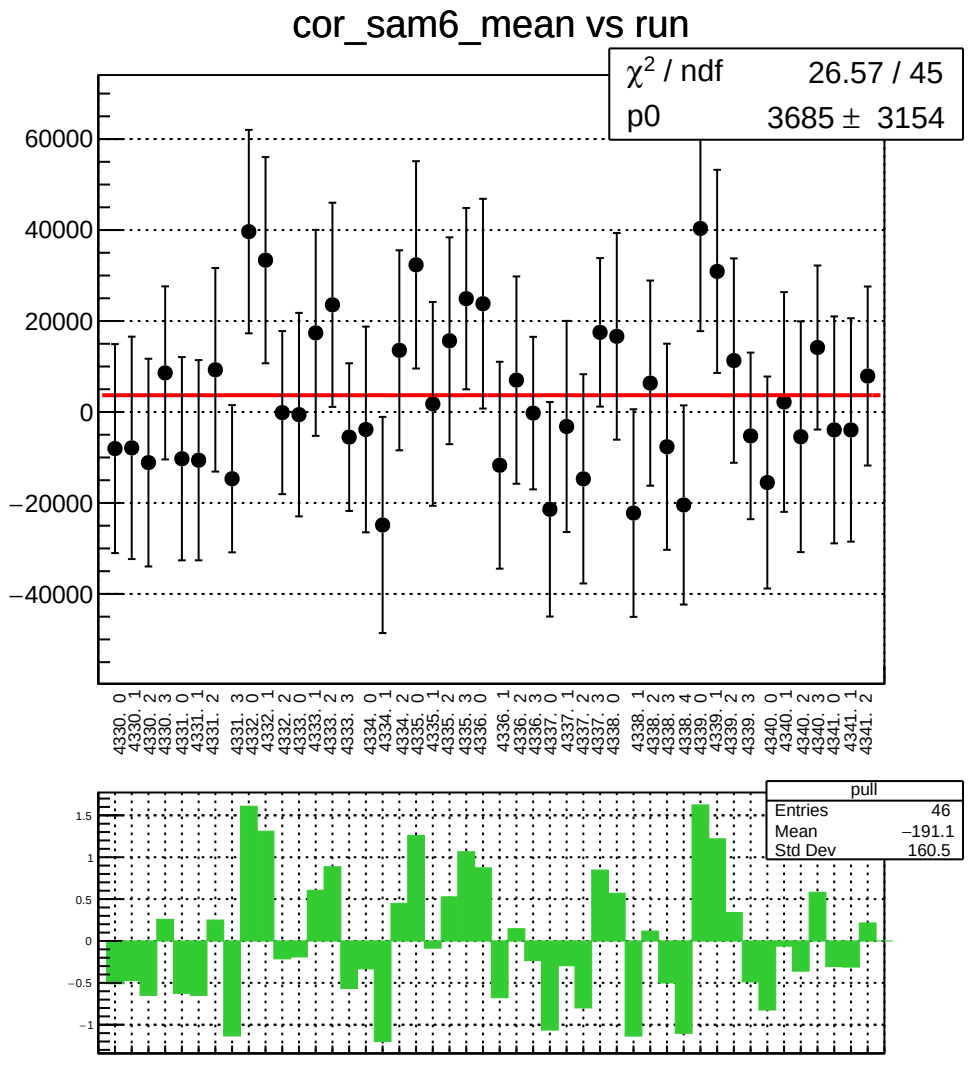

pull1D
Entries 46
Mean 0.009314
Std Dev 0.8451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

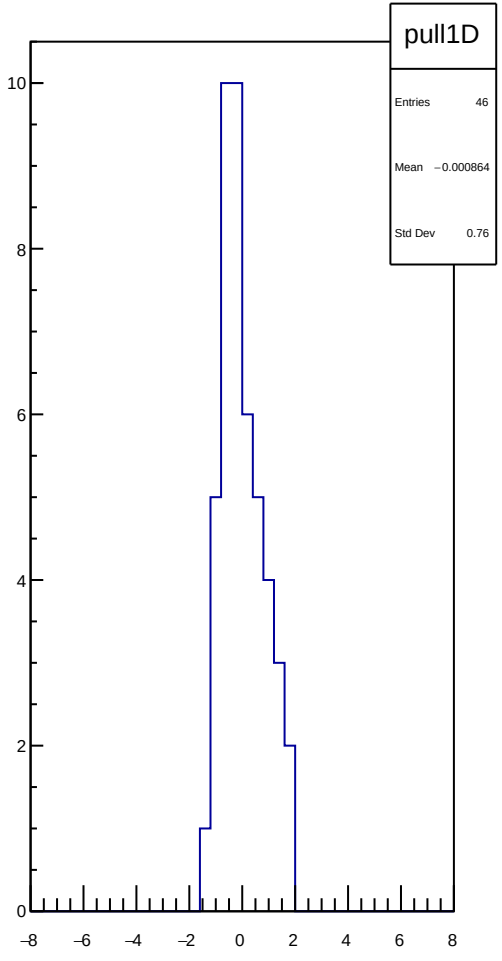

cor_sam4_rms vs run
χ² / ndf 223.6 / 45
p0 4661 ± 4.771
5100
5000
4900
4800
4700
4600
4500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

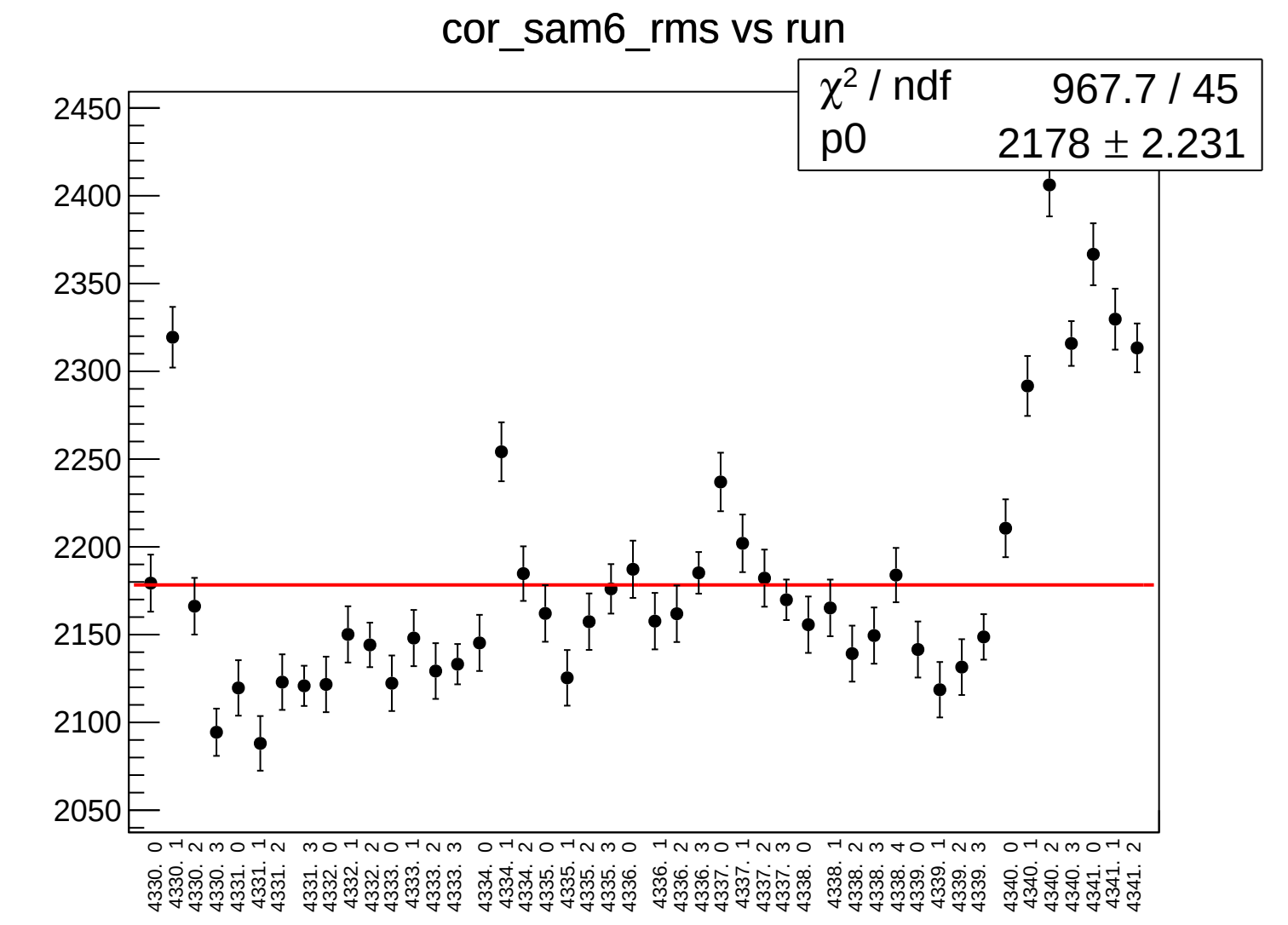

cor_sam5_mean vs run
χ² / ndf 51.03 / 45
p0 −1393 ± 640.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 98.83
Std Dev 74.78
2
1
0
−1
−2
−3

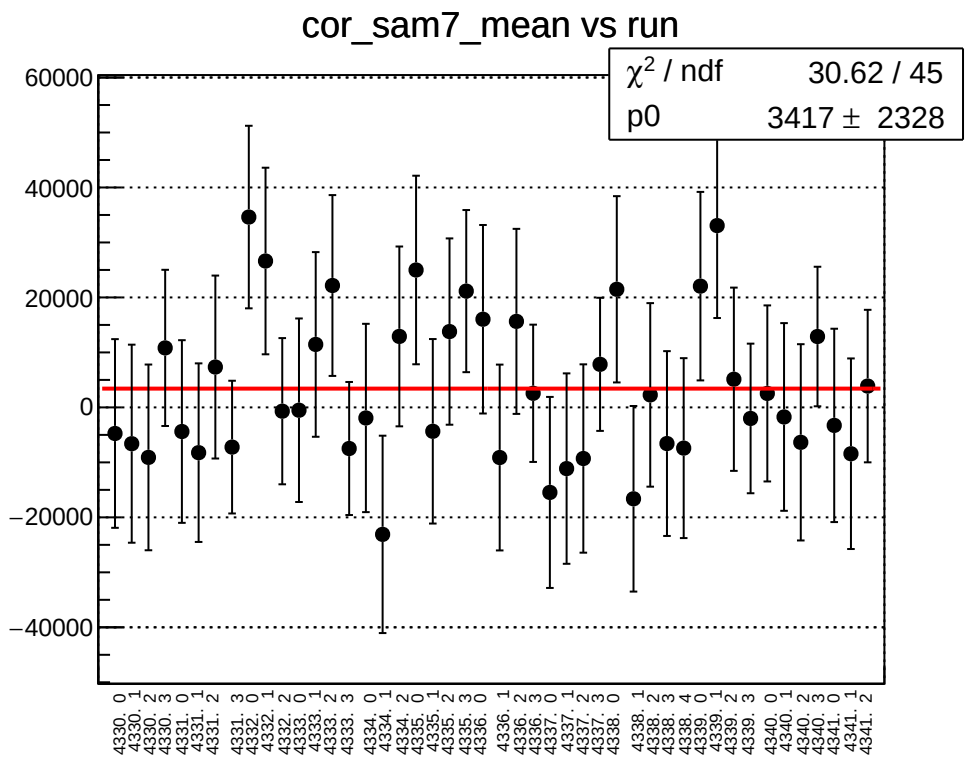

pull1D
Entries 46
Mean 0.02682
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

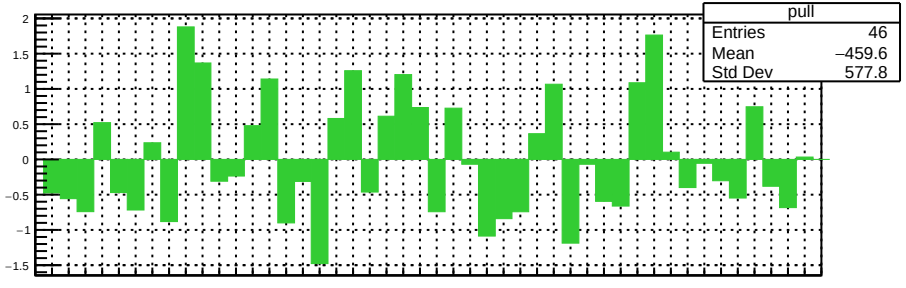

cor_sam5_rms vs run
χ² / ndf 2795 / 45
p0 441.6 ± 0.4526
500
480
460
440
420
400
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

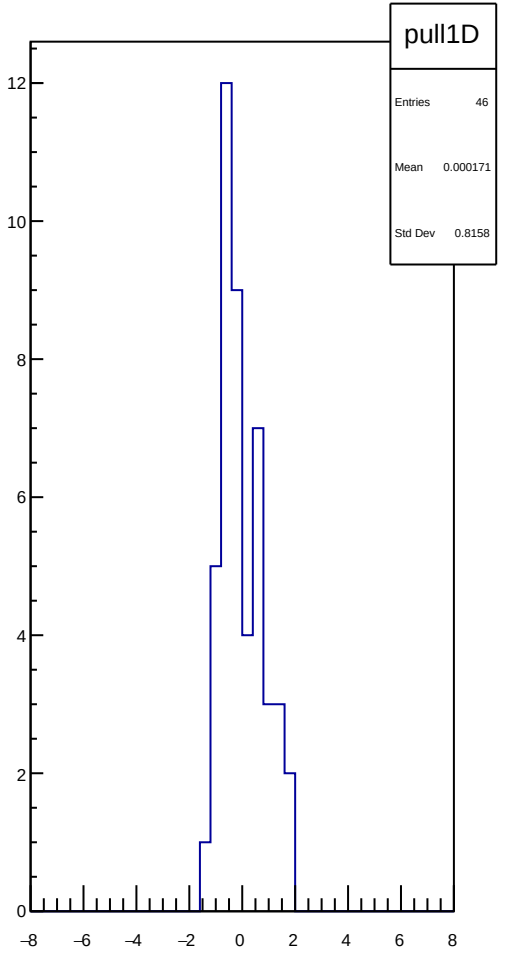

cor_sam6_mean vs run
χ² / ndf 26.57 / 45
p0 3685 ± 3154
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −191.1
Std Dev 160.5
1.5
1
0.5
0
−0.5
−1

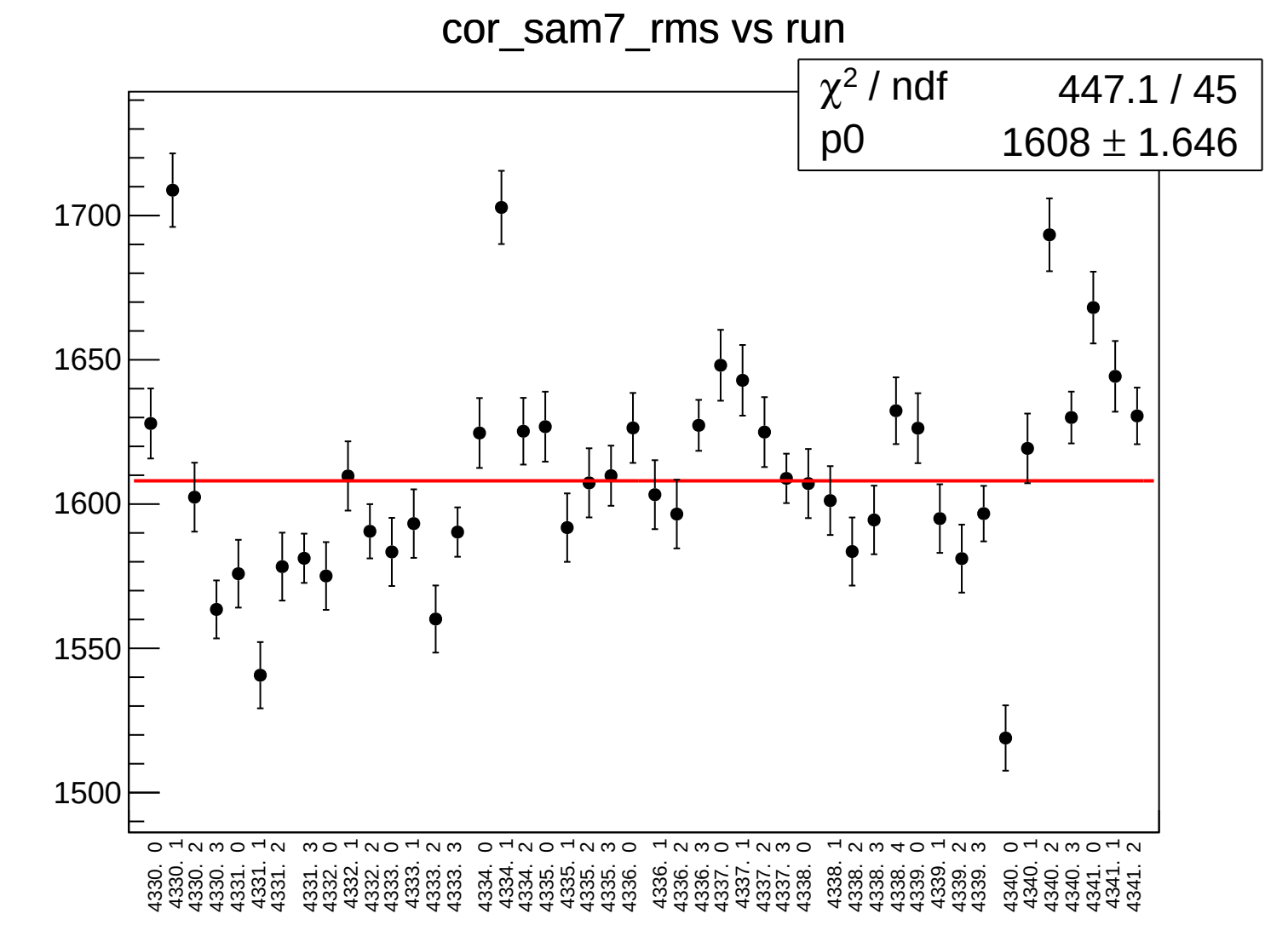

pull1D
Entries 46
Mean −0.000864
Std Dev 0.76
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

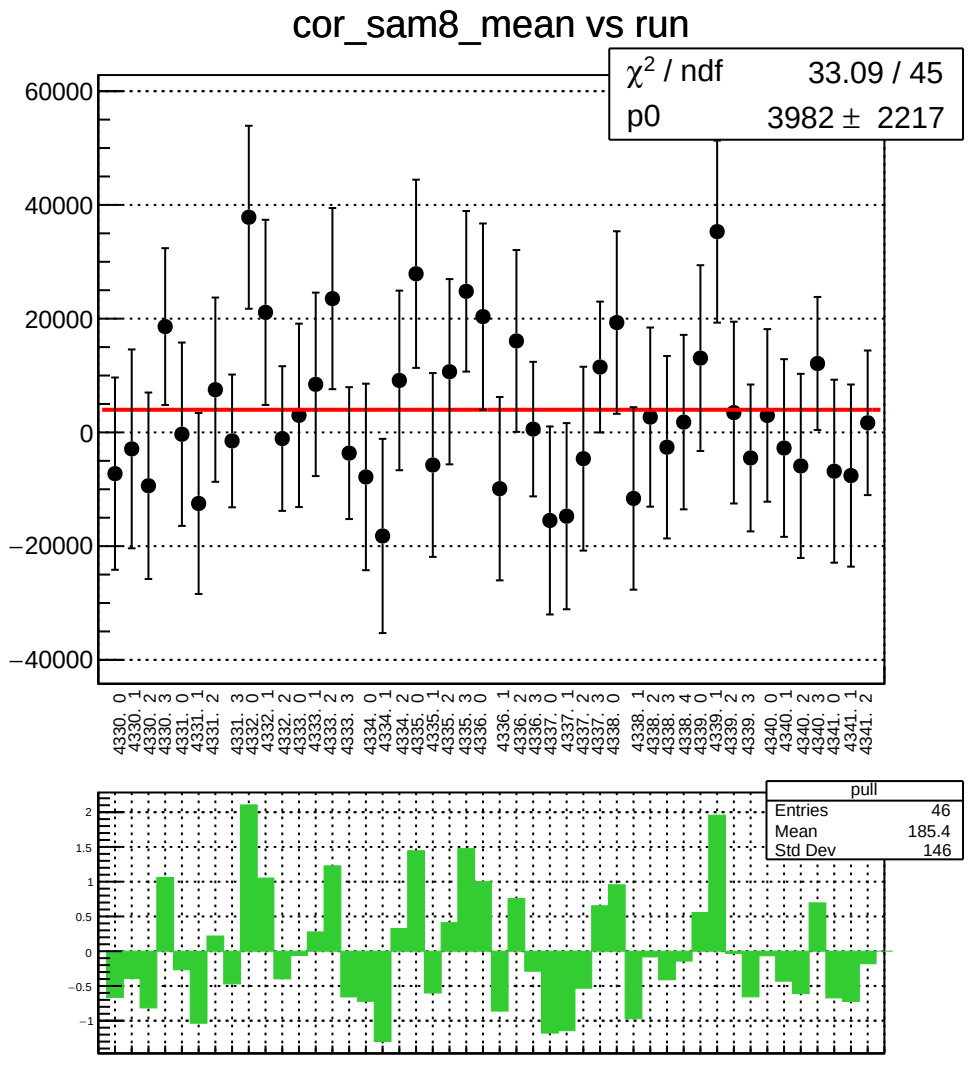

cor_sam6_rms vs run
χ² / ndf 967.7 / 45
p0 2178 ± 2.231
2450
2400
2350
2300
2250
2200
2150
2100
2050
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

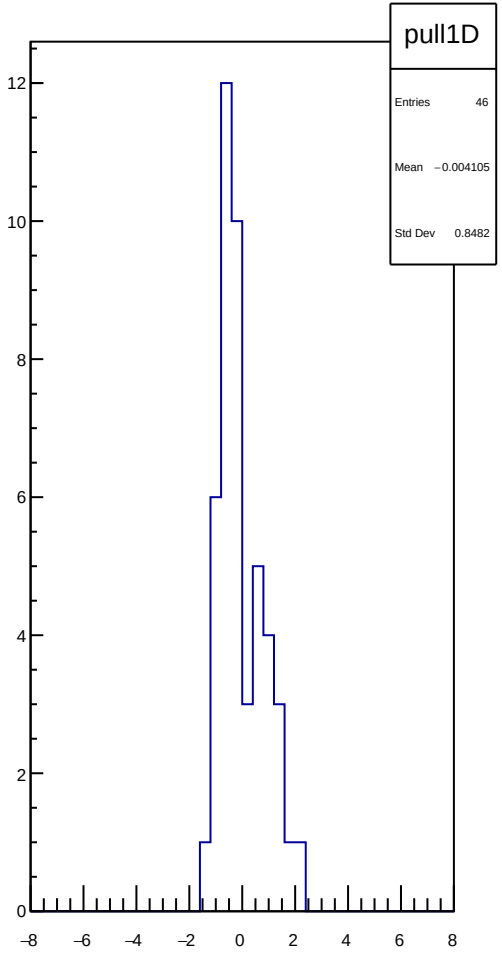

cor_sam7_mean vs run
χ² / ndf 30.62 / 45
p0 3417 ± 2328
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

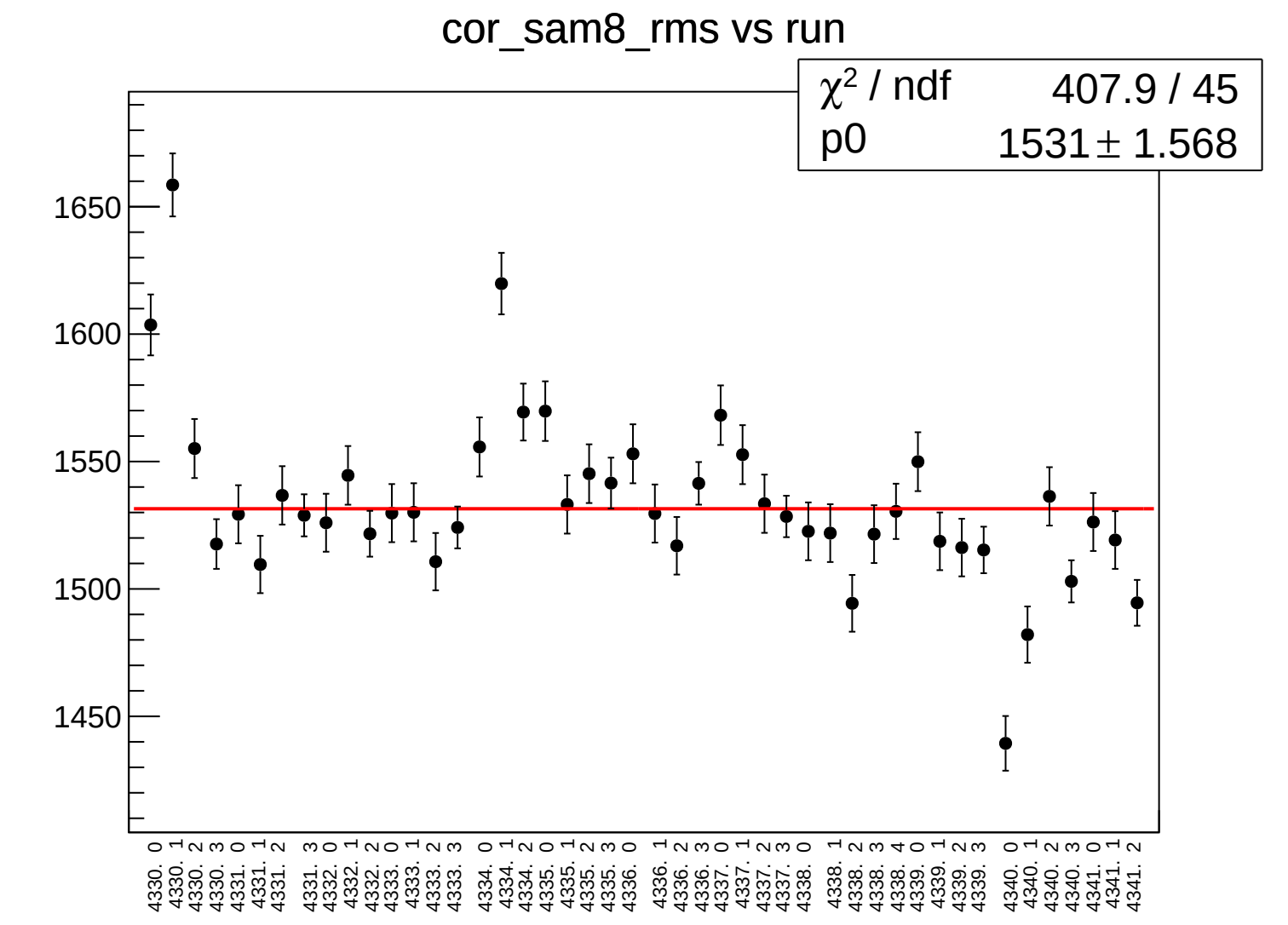

pull
Entries 46
Mean −459.6
Std Dev 577.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

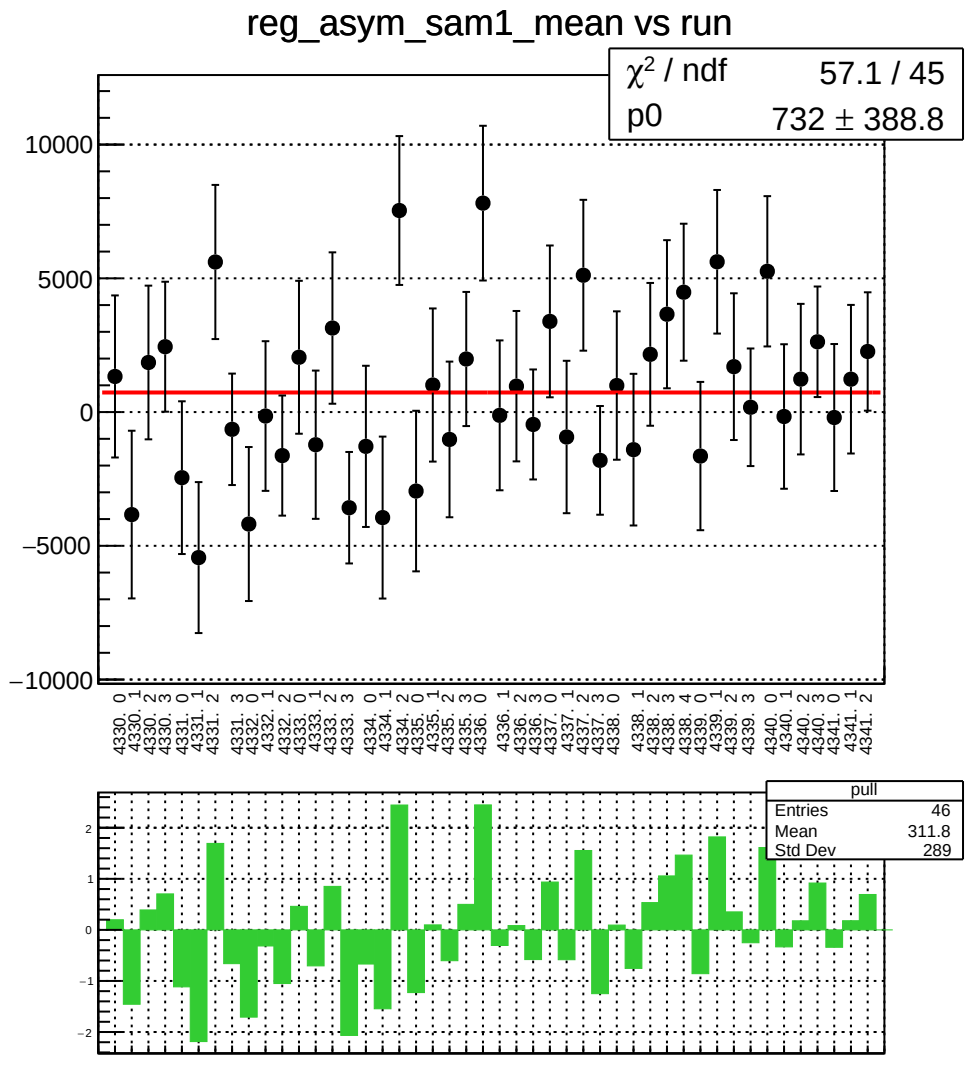

pull1D
Entries 46
Mean 0.000171
Std Dev 0.8158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

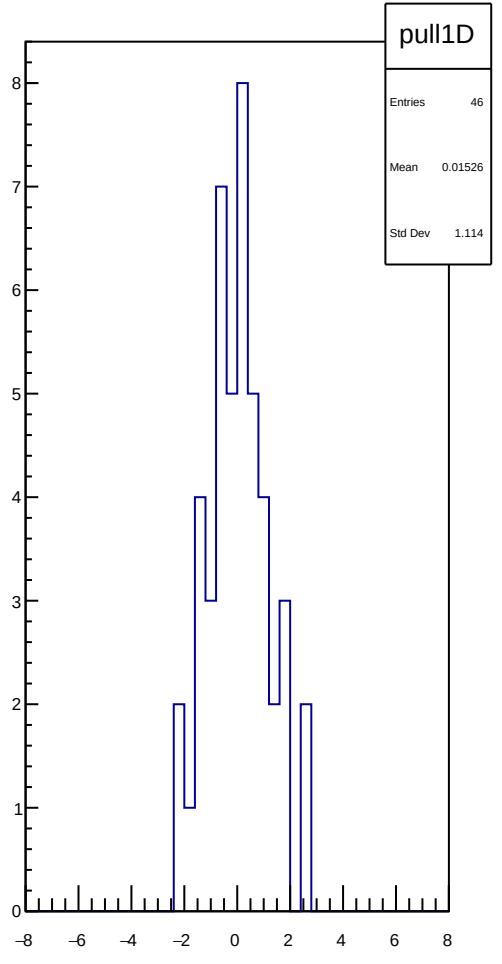

cor_sam7_rms vs run
χ² / ndf 447.1 / 45
p0 1608 ± 1.646
1700
1650
1600
1550
1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

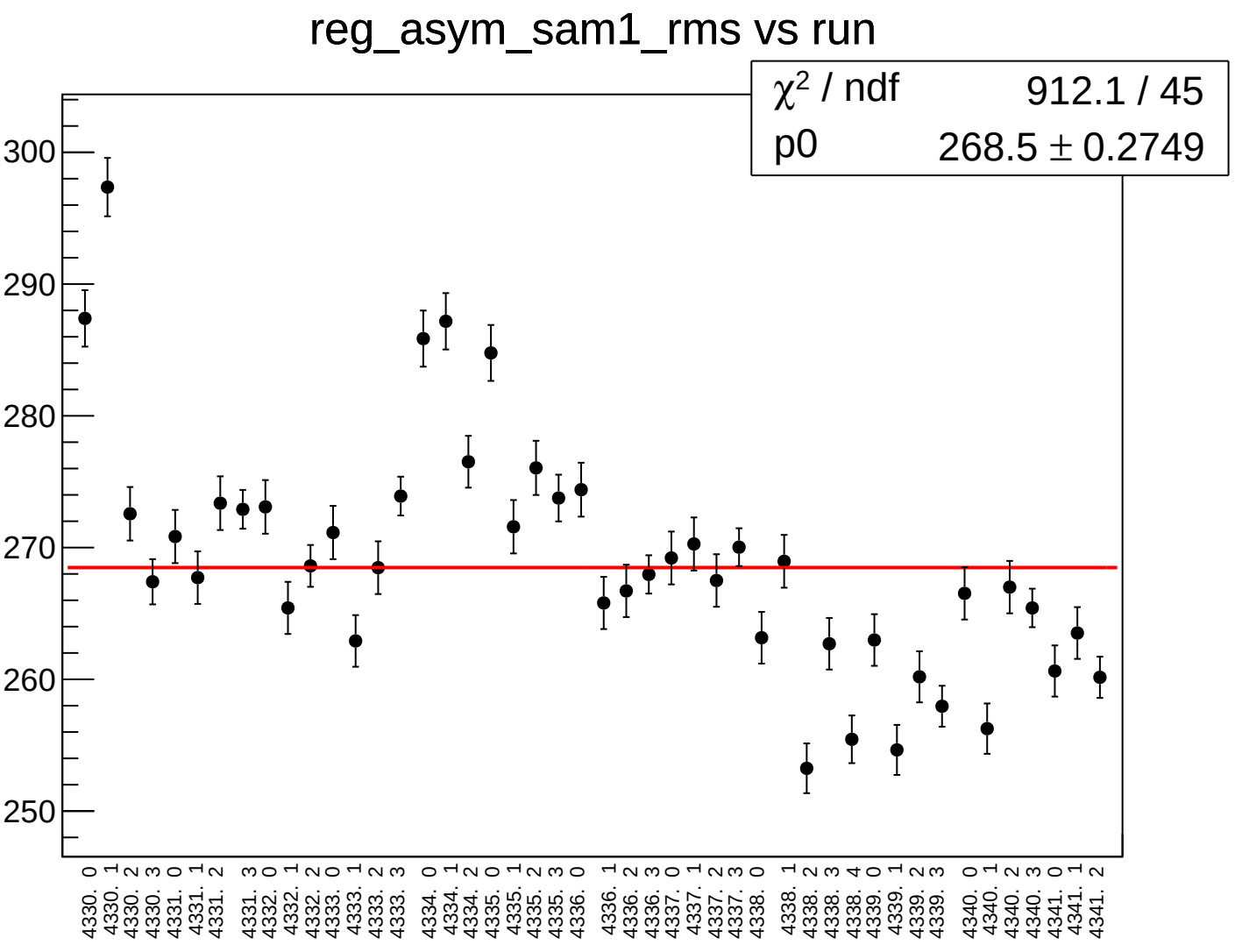

cor_sam8_mean vs run
χ² / ndf 33.09 / 45
p0 3982 ± 2217
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 185.4
Std Dev 146
2
1.5
1
0.5
0
−0.5
−1

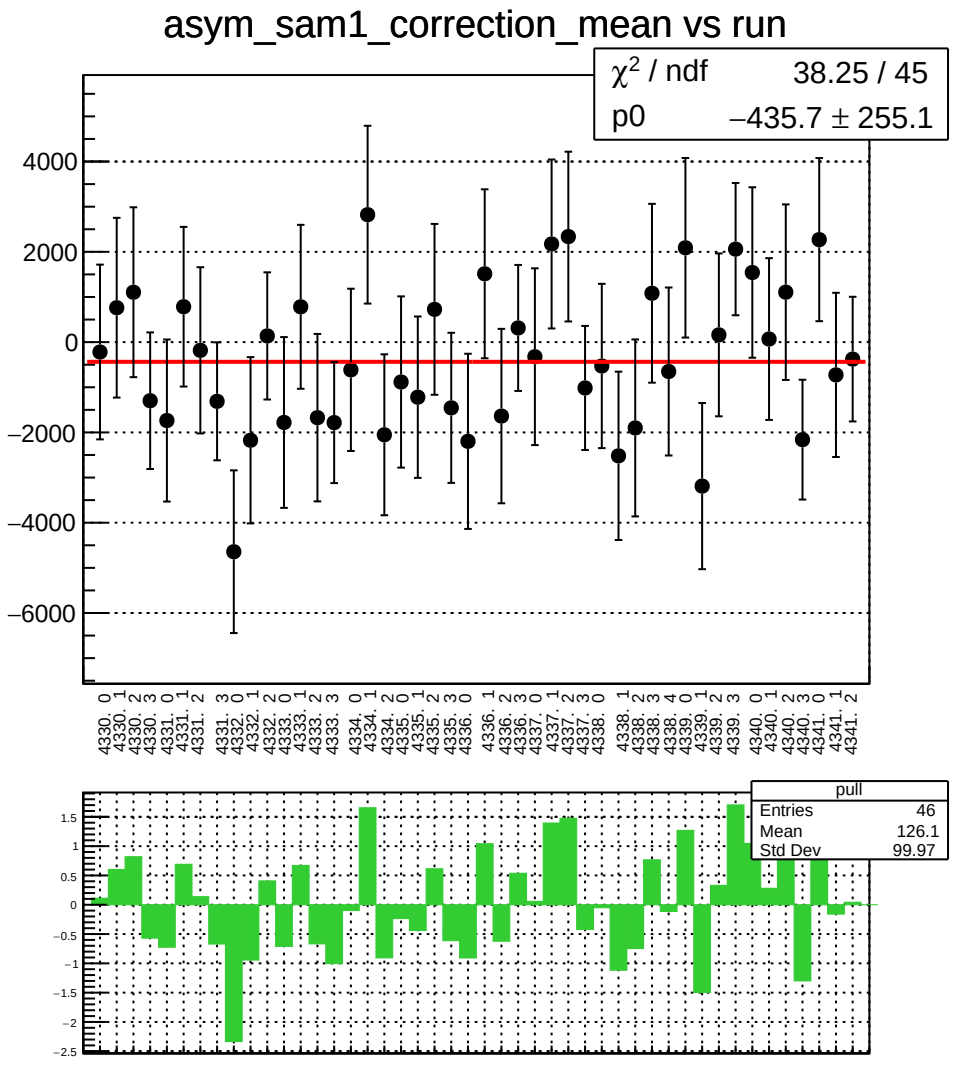

pull1D
Entries 46
Mean −0.004105
Std Dev 0.8482
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

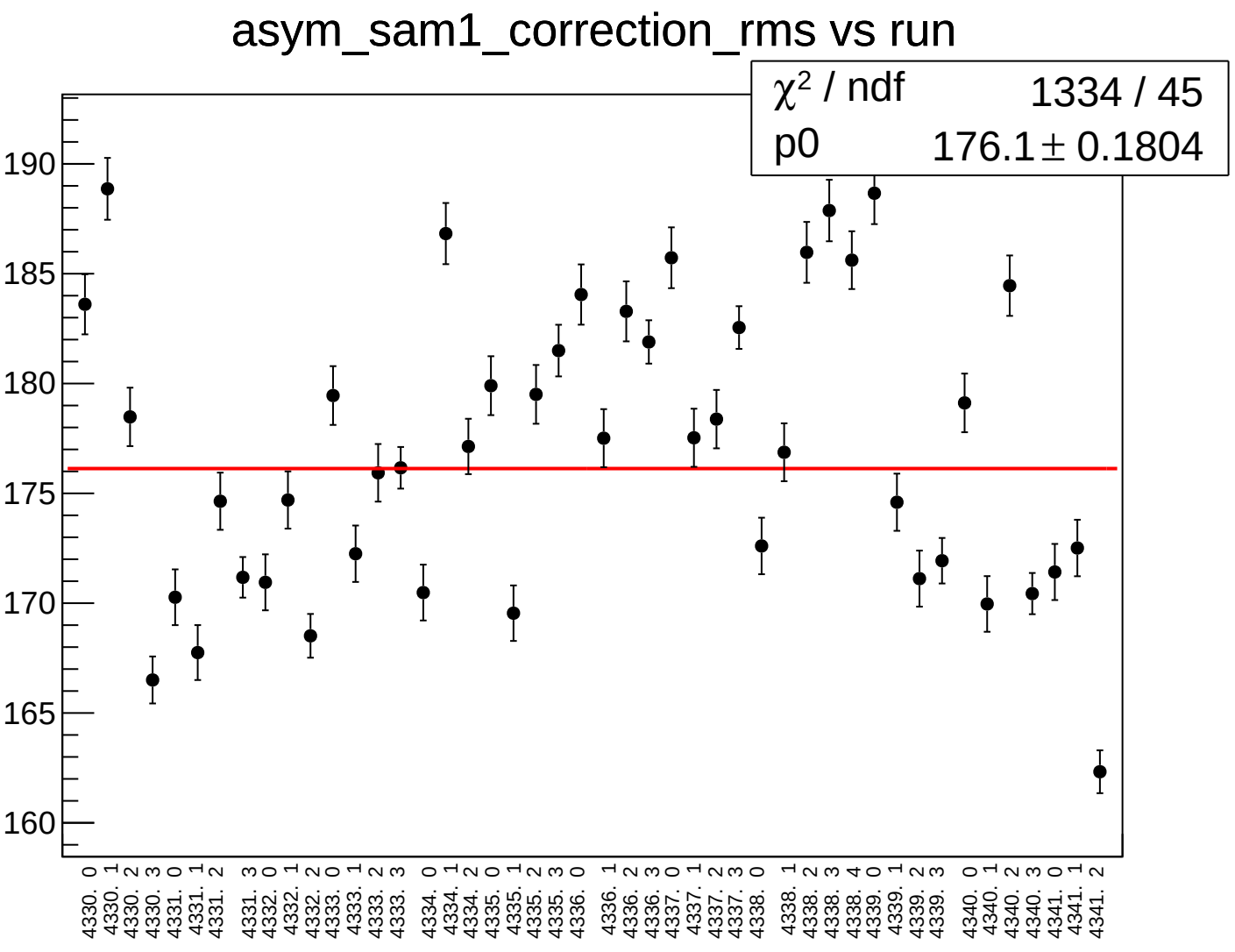

cor_sam8_rms vs run
χ² / ndf 407.9 / 45
p0 1531 ± 1.568
1650
1600
1550
1500
1450
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

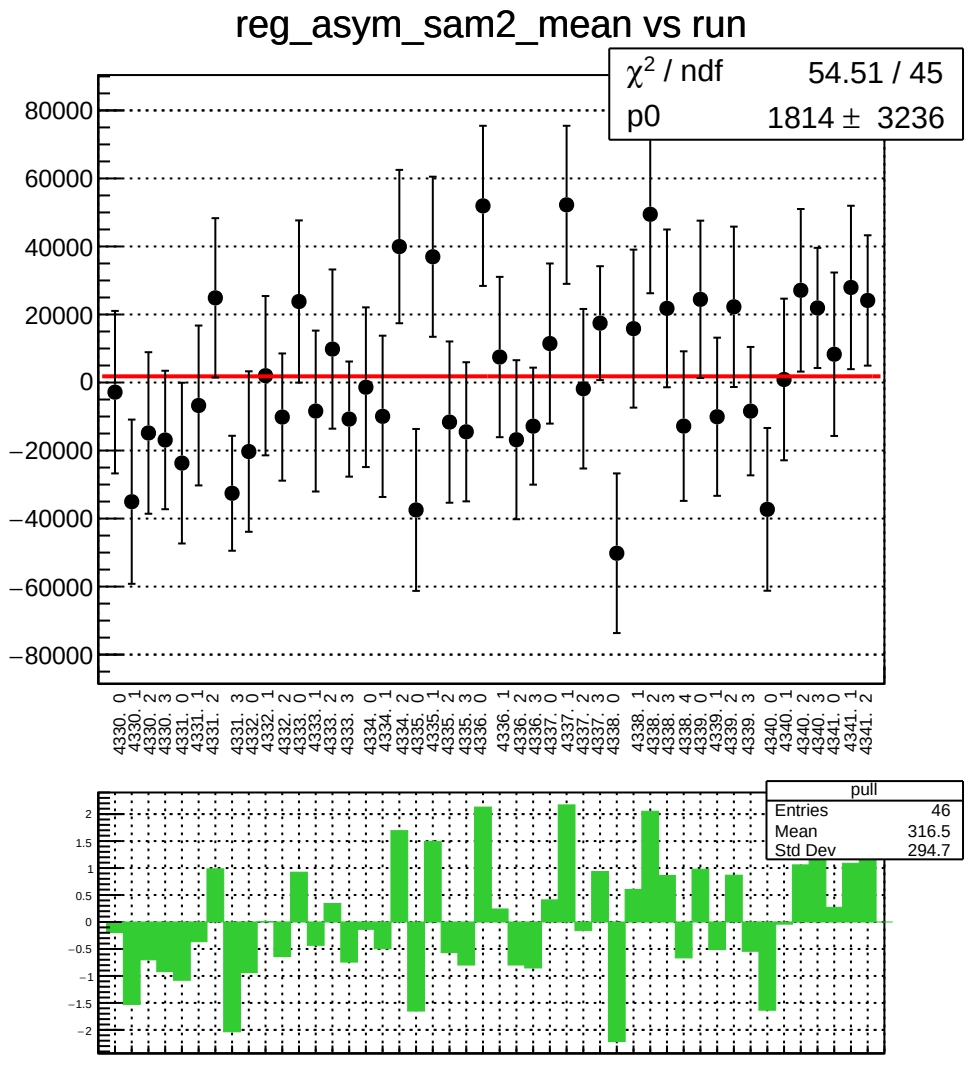

reg_asym_sam1_mean vs run
χ² / ndf 57.1 / 45
p0 732 ± 388.8
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 311.8
Std Dev 289
2
1
0
−1
−2

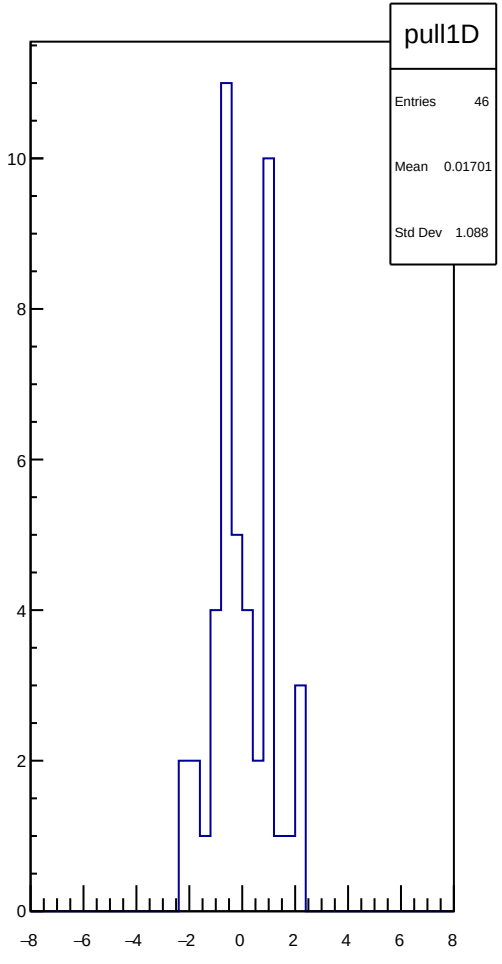

pull1D
Entries 46
Mean 0.01526
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

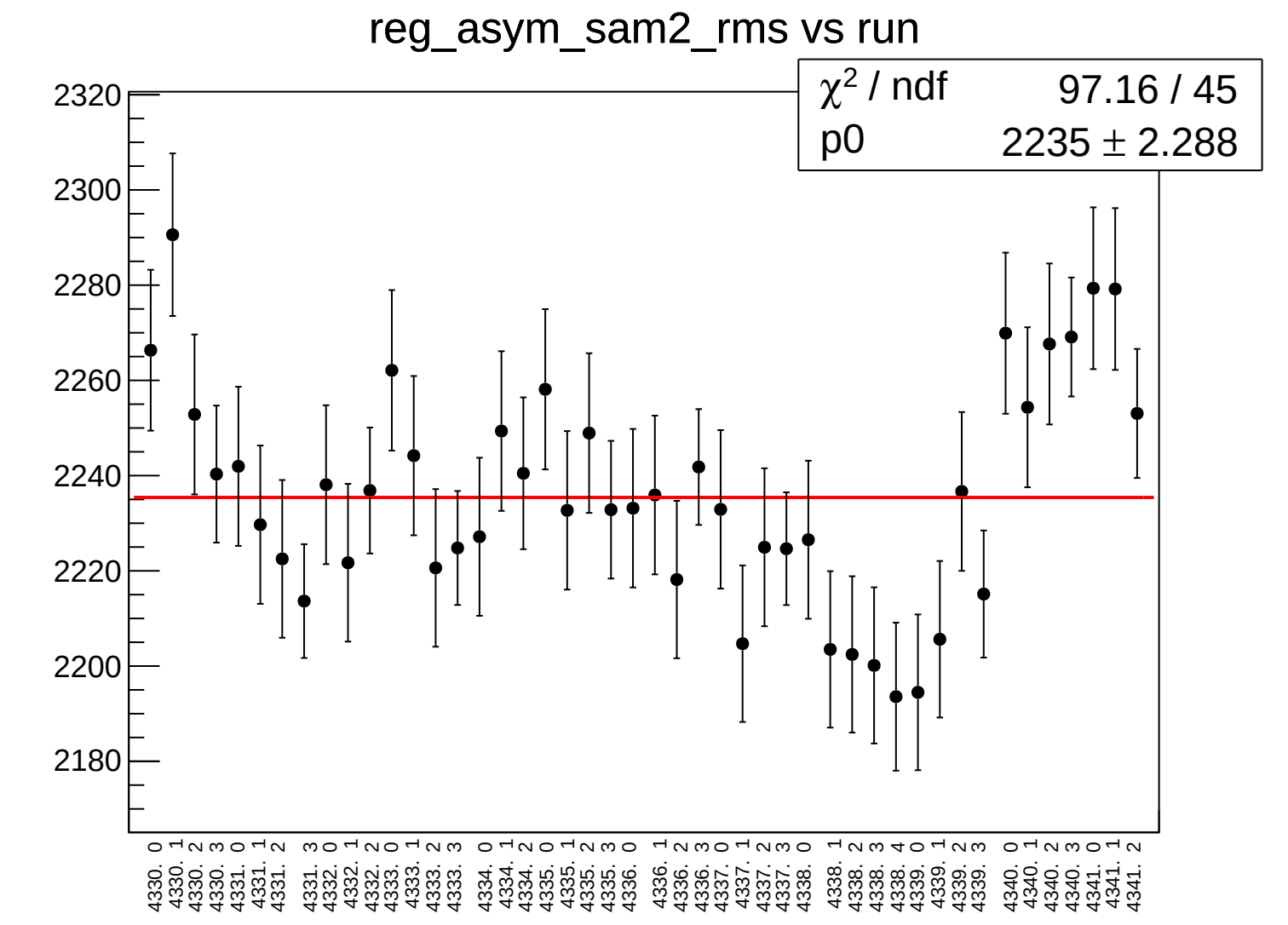

reg_asym_sam1_rms vs run
χ² / ndf 912.1 / 45
p0 268.5 ± 0.2749
300
290
280
270
260
250
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

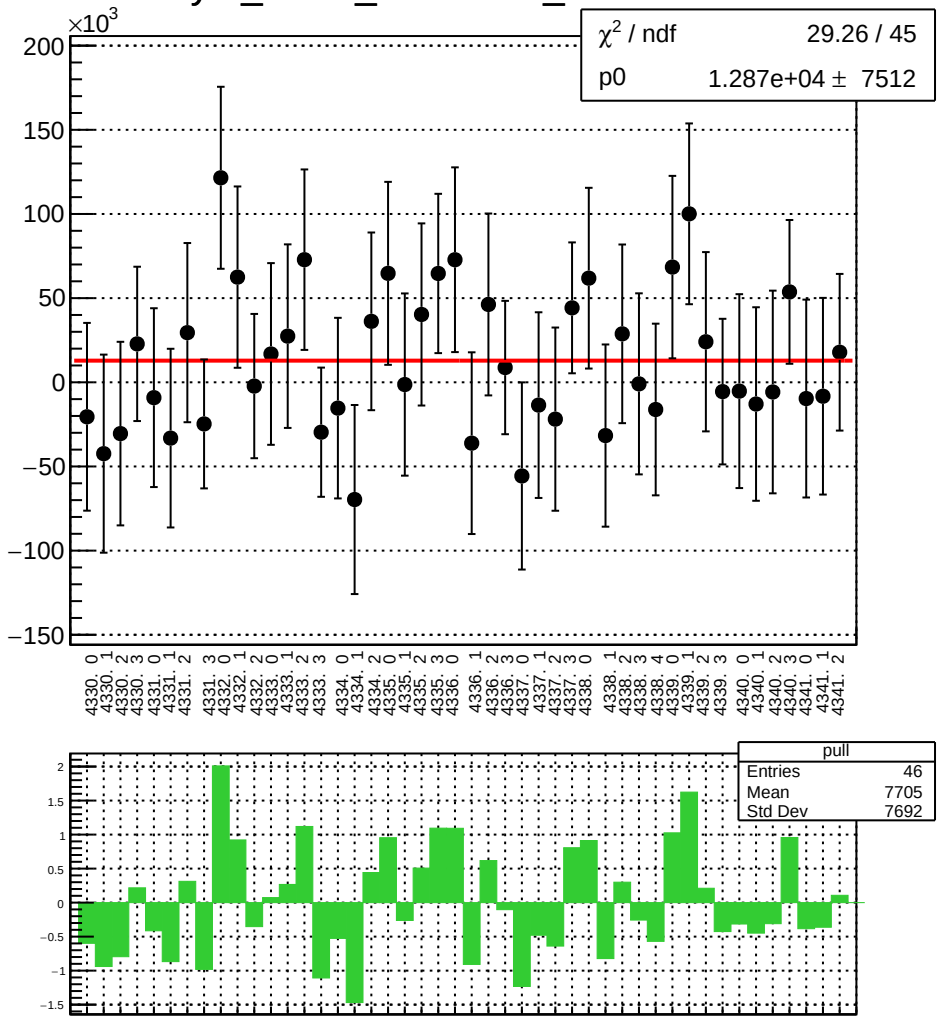

asym_sam1_correction_mean vs run
χ² / ndf 38.25 / 45
p0 −435.7 ± 255.1
4000
2000
0
−2000
−4000
−6000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 126.1
Std Dev 99.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.02371
Std Dev 0.9116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

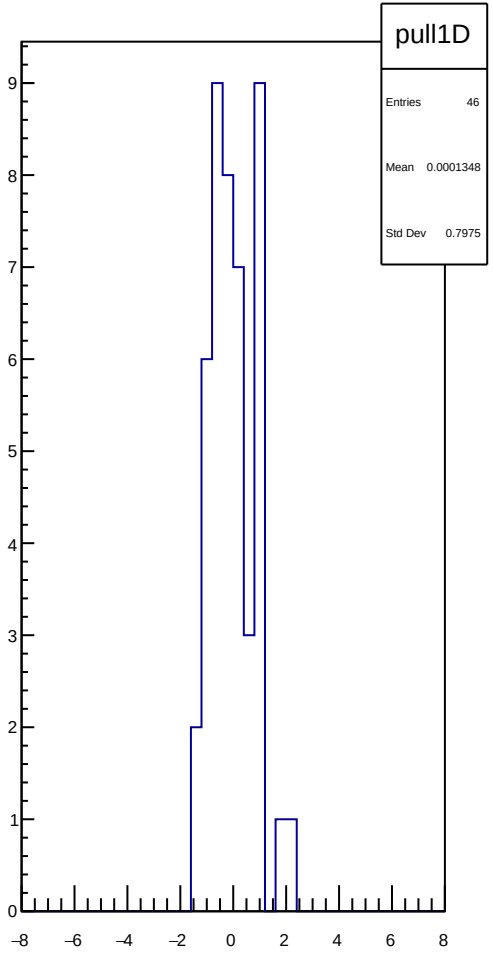

asym_sam1_correction_rms vs run
χ² / ndf 1334 / 45
p0 176.1 ± 0.1804
190
185
180
175
170
165
160
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

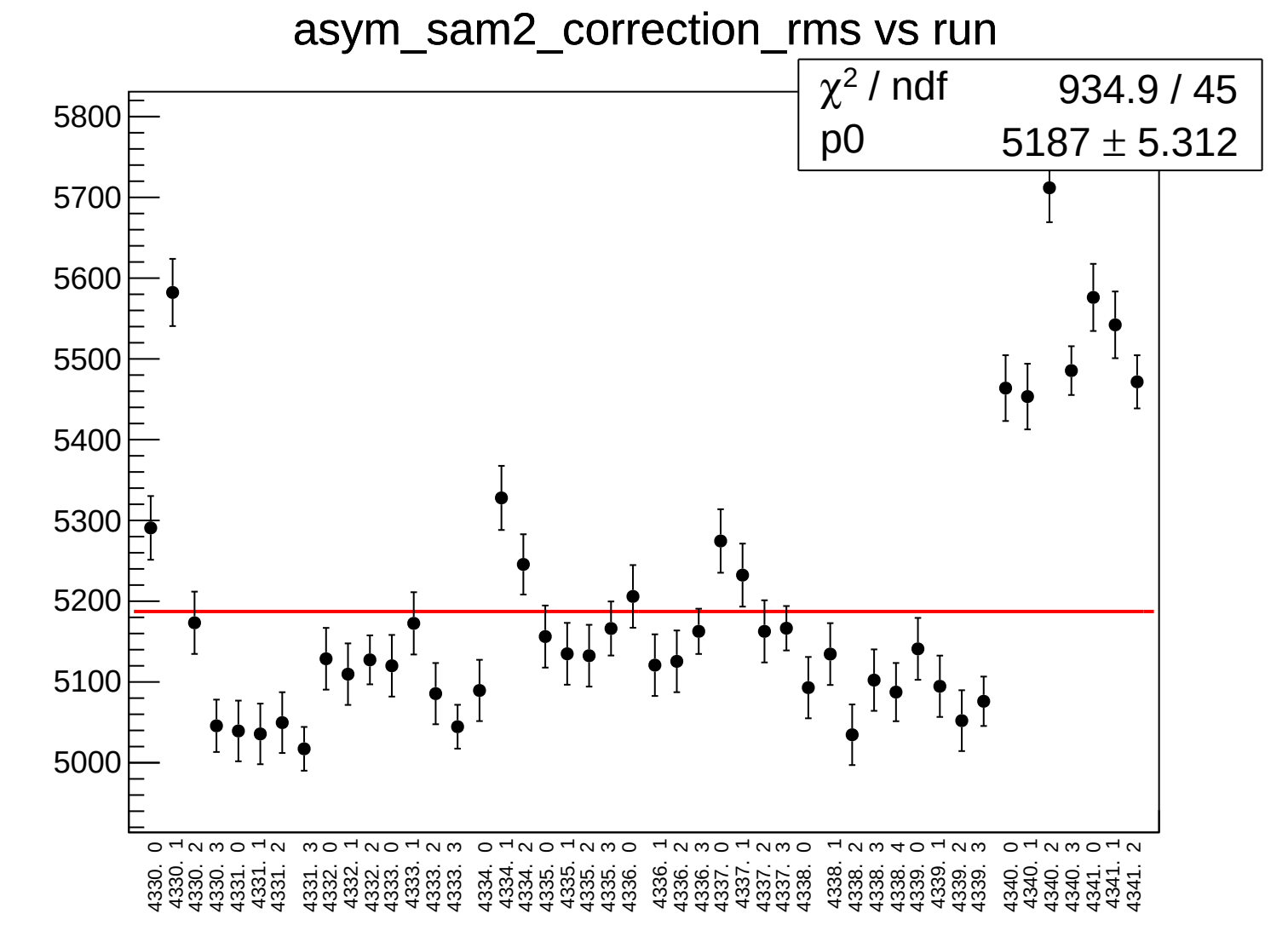

reg_asym_sam2_mean vs run
χ² / ndf 54.51 / 45
p0 1814 ± 3236
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 316.5
Std Dev 294.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

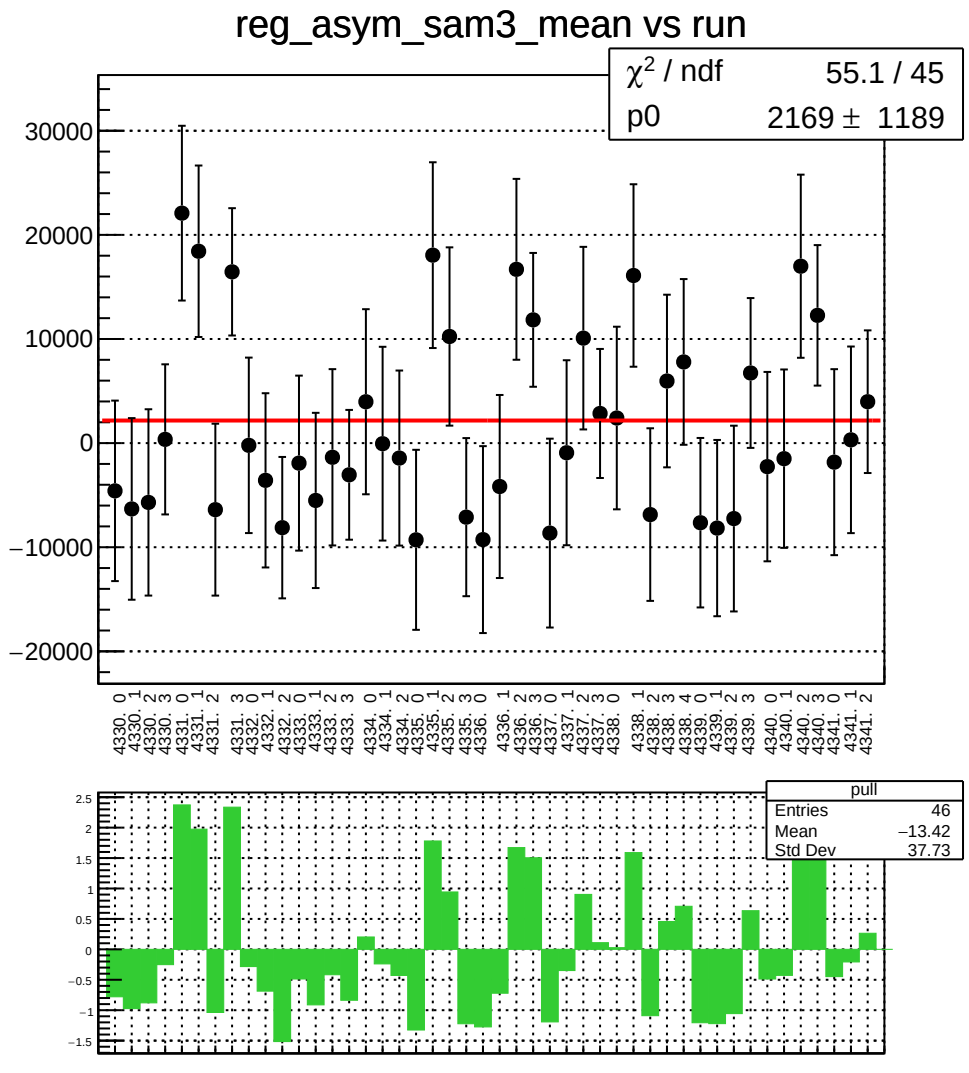

pull1D
Entries 46
Mean 0.01701
Std Dev 1.088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

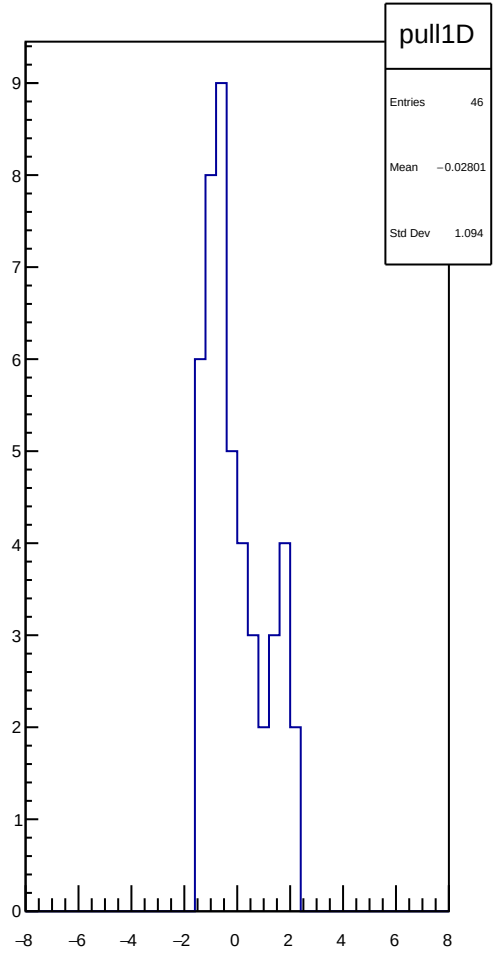

reg_asym_sam2_rms vs run
χ² / ndf 97.16 / 45
p0 2235 ± 2.288
2320
2300
2280
2260
2240
2220
2200
2180
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

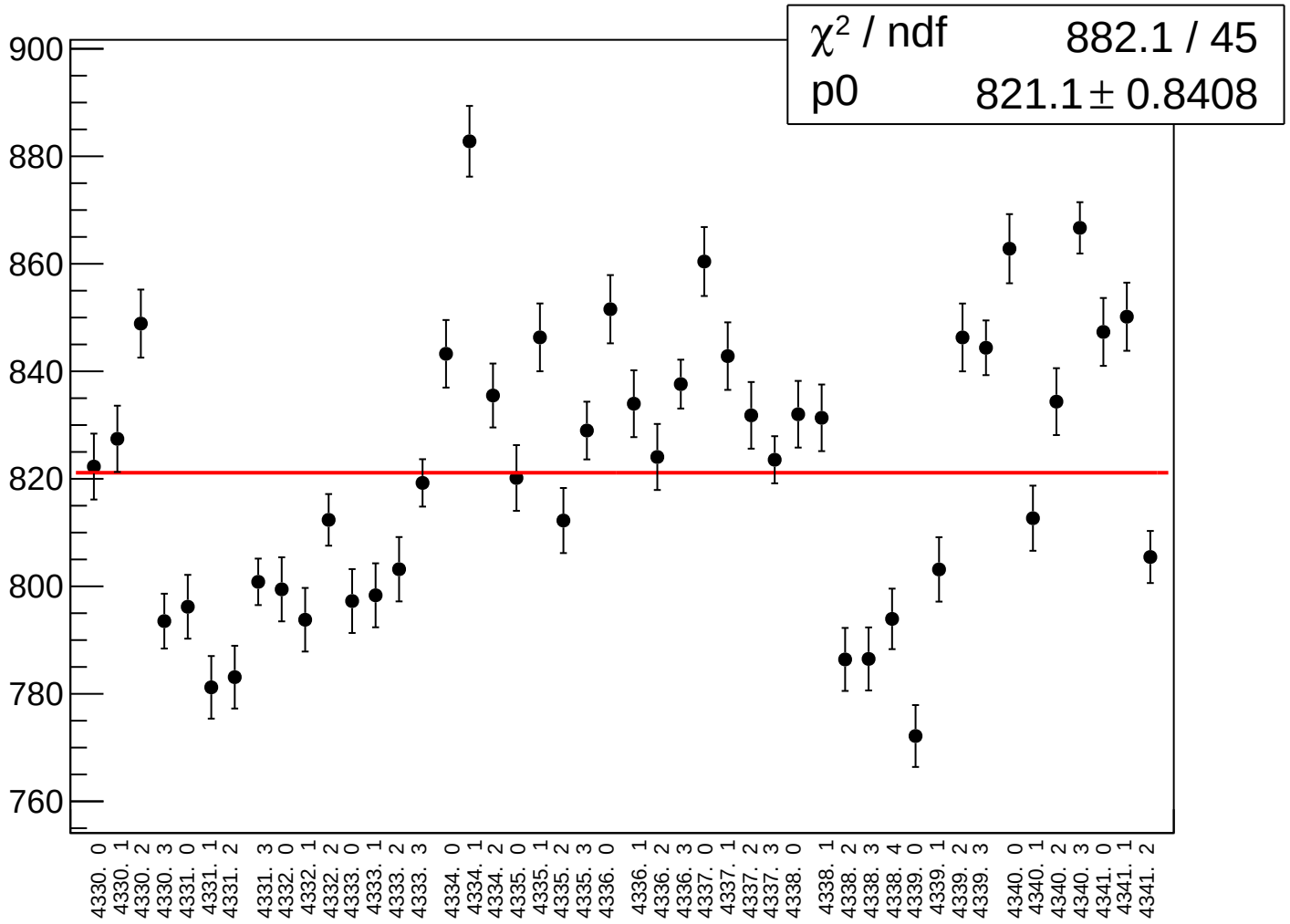

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 29.26 / 45
p0 1.287e+04 ± 7512
pull
Entries 46
Mean 7705
Std Dev 7692

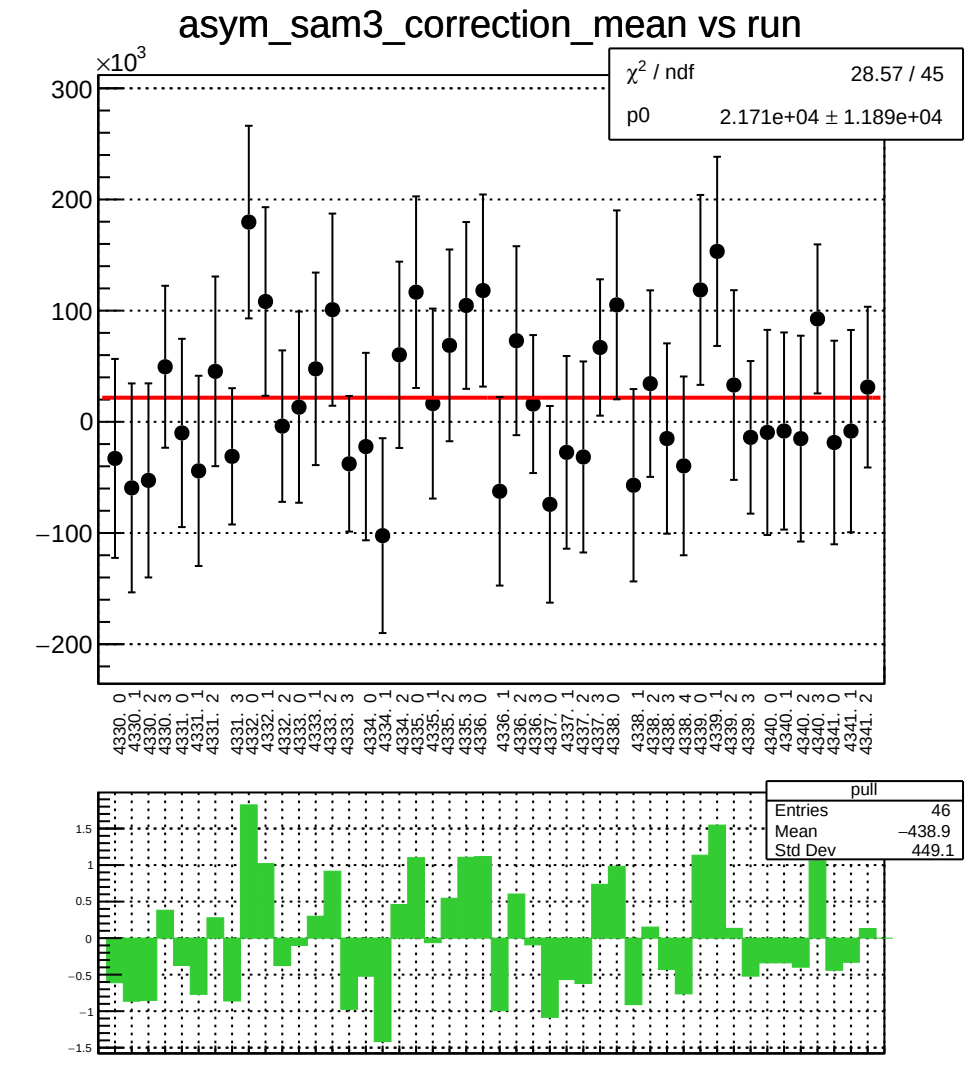

pull1D
Entries 46
Mean 0.0001348
Std Dev 0.7975

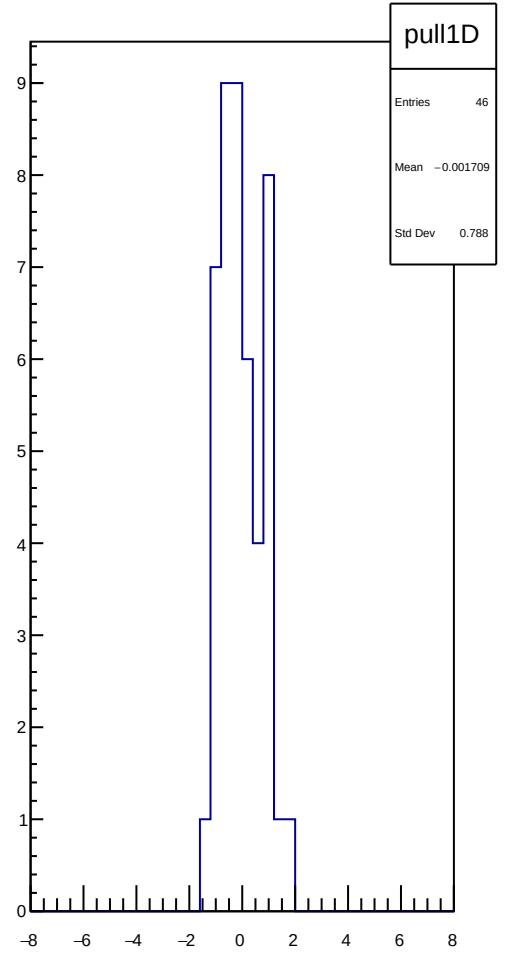

asym_sam2_correction_rms vs run
χ^2 / ndf 934.9 / 45
p0 5187 ± 5.312
5800
5700
5600
5500
5400
5300
5200
5100
5000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

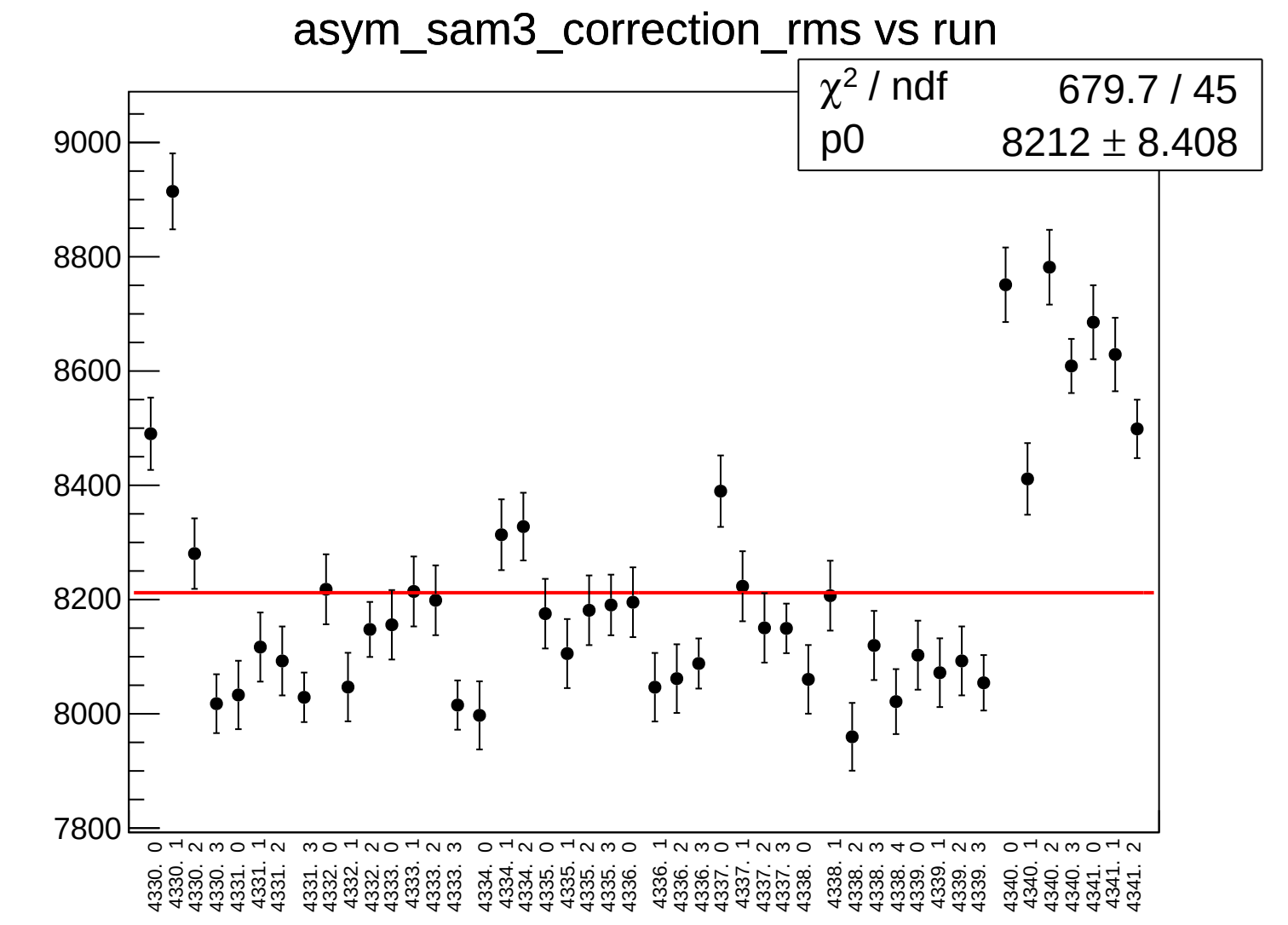

reg_asym_sam3_mean vs run
χ² / ndf 55.1 / 45
p0 2169 ± 1189
30000
20000
10000
0
−10000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −13.42
Std Dev 37.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

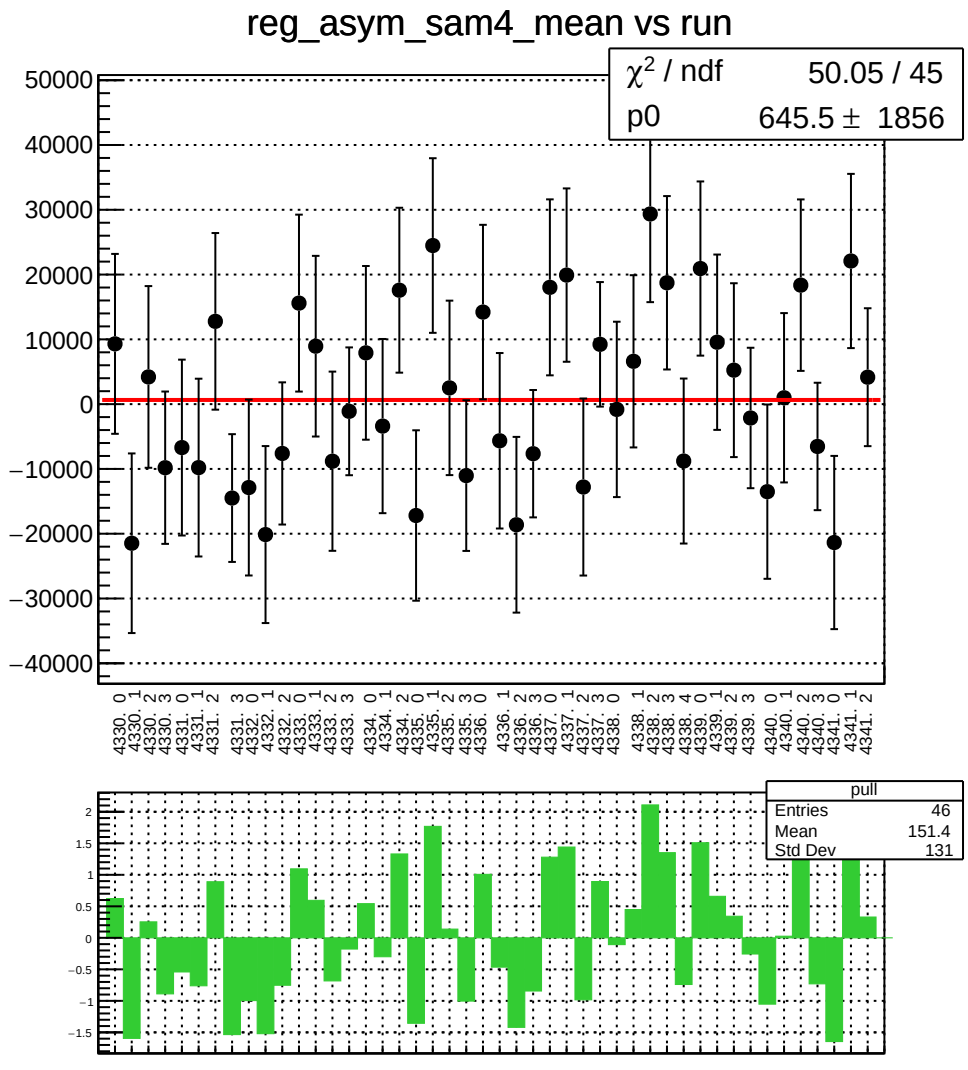

pull1D
Entries 46
Mean −0.02801
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

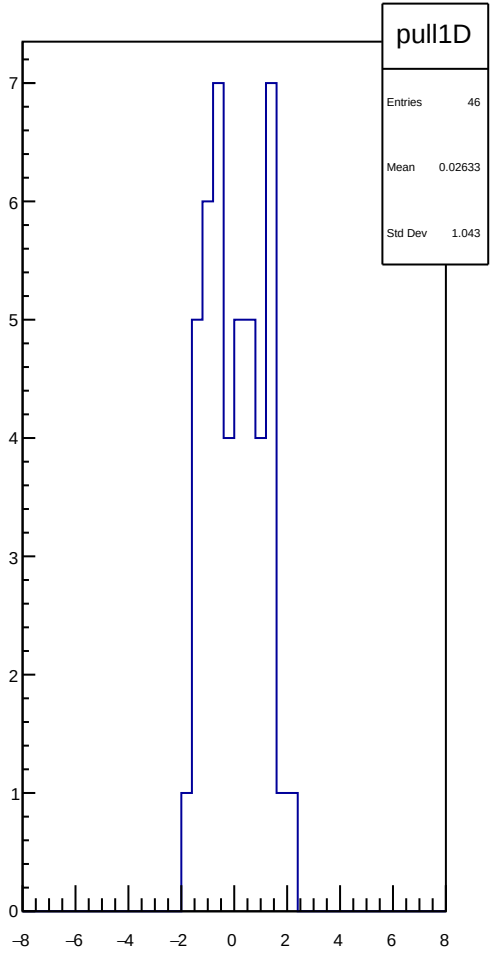

reg_asym_sam3_rms vs run
χ² / ndf 882.1 / 45
p0 821.1 ± 0.8408
900
880
860
840
820
800
780
760
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

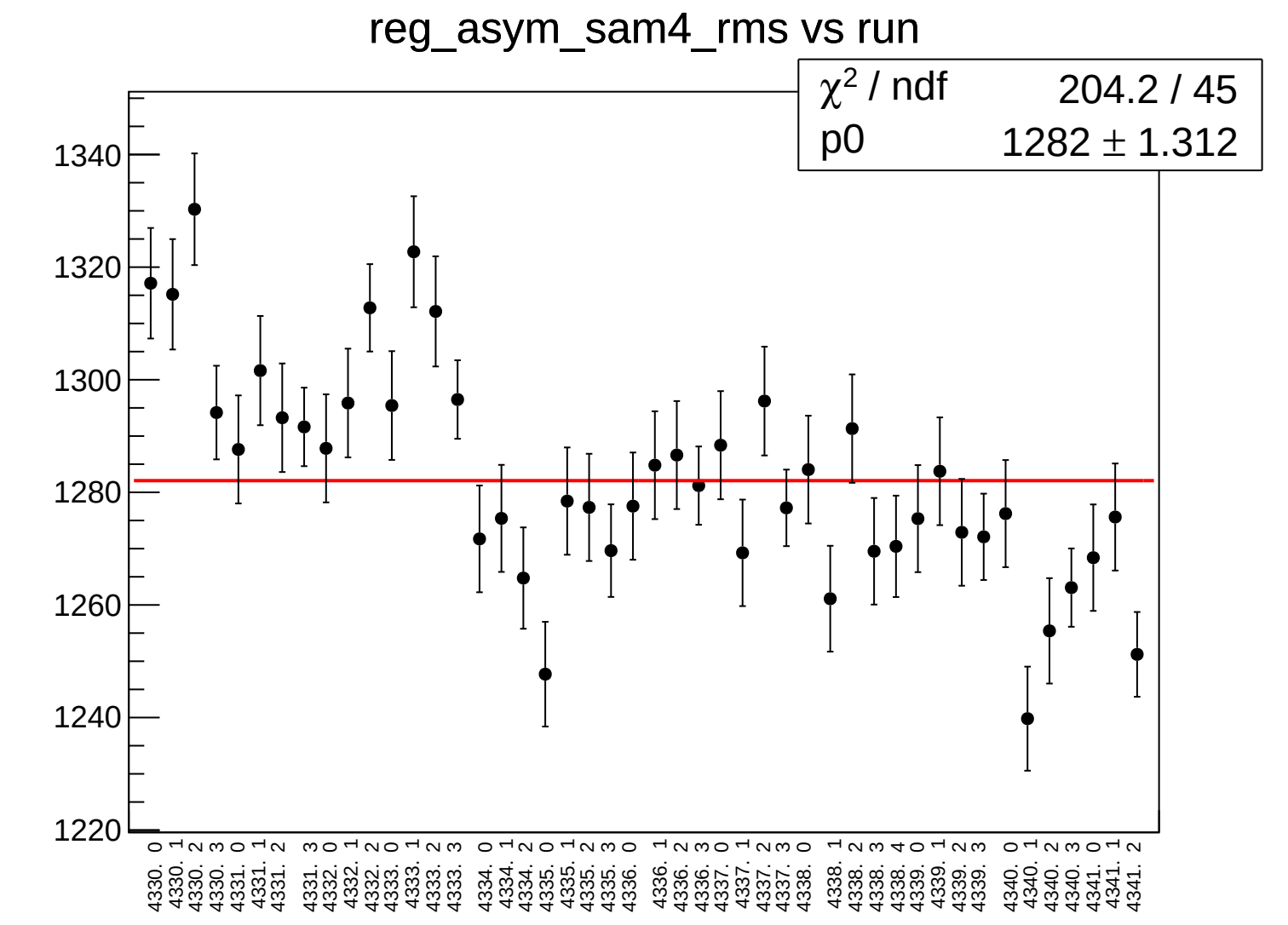

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 28.57 / 45
p0 2.171e+04 ± 1.189e+04
300
200
100
0
−100
−200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −438.9
Std Dev 449.1
1.5
1
0.5
0
−0.5
−1
−1.5

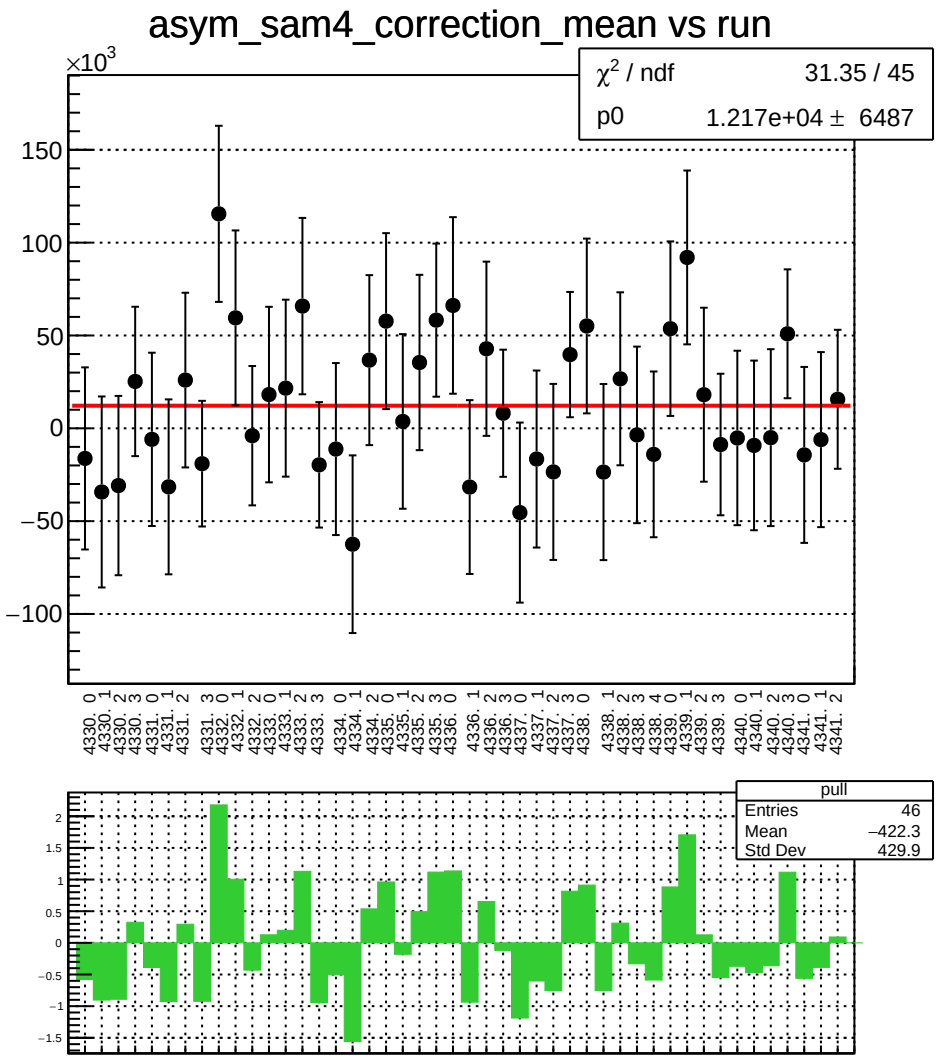

pull1D
Entries 46
Mean −0.001709
Std Dev 0.788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

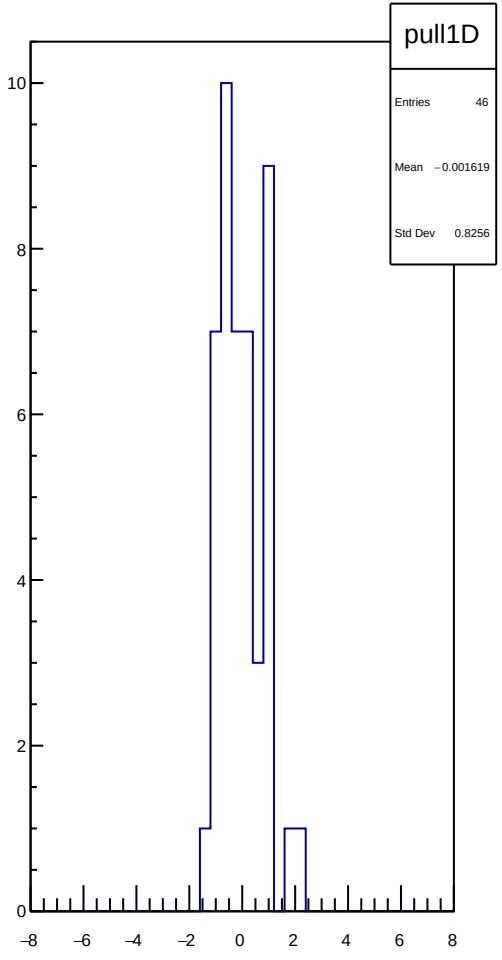

asym_sam3_correction_rms vs run
χ² / ndf 679.7 / 45
p0 8212 ± 8.408
9000
8800
8600
8400
8200
8000
7800
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

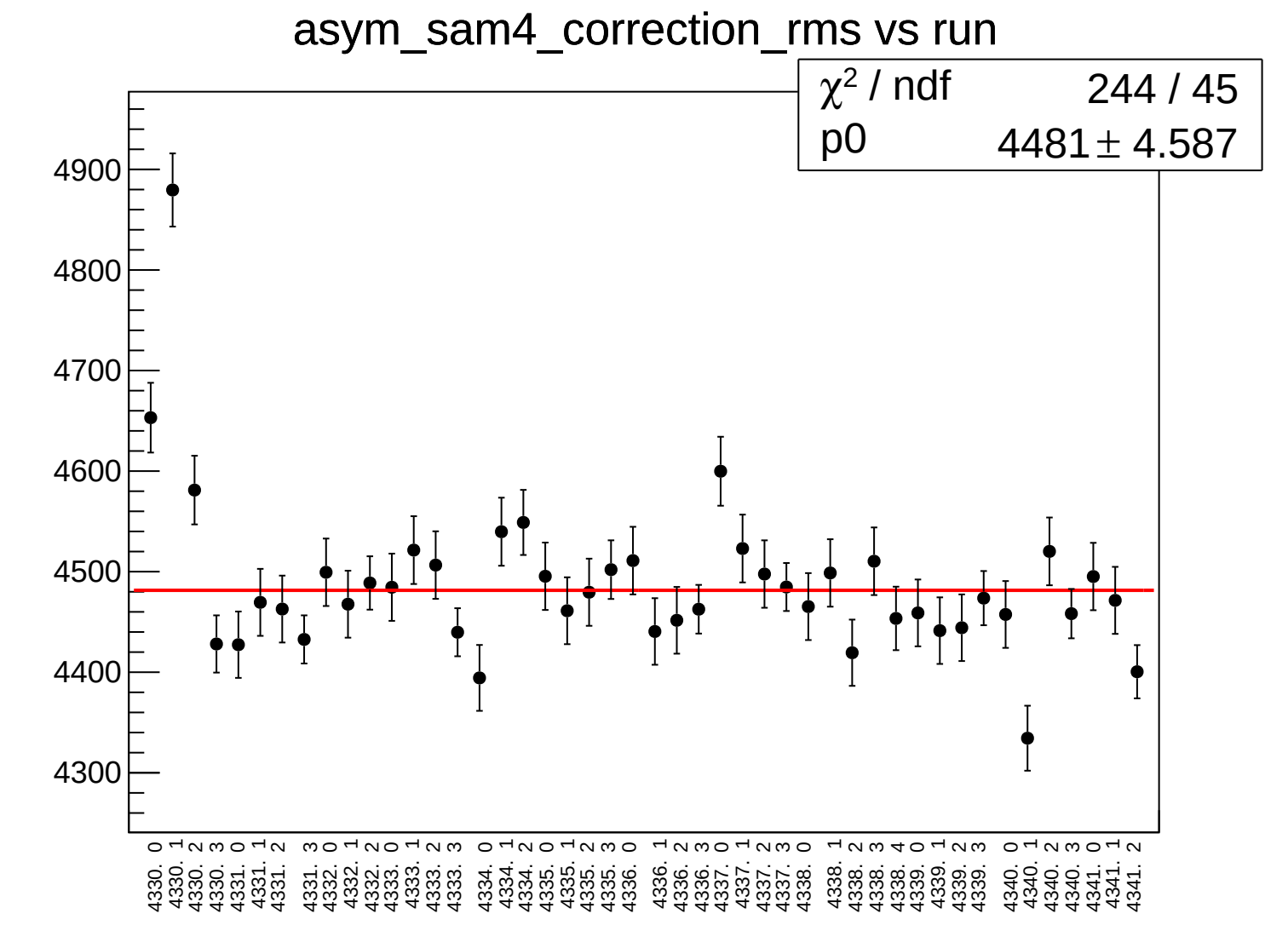

reg_asym_sam4_mean vs run
χ² / ndf 50.05 / 45
p0 645.5 ± 1856
pull
Entries 46
Mean 151.4
Std Dev 131

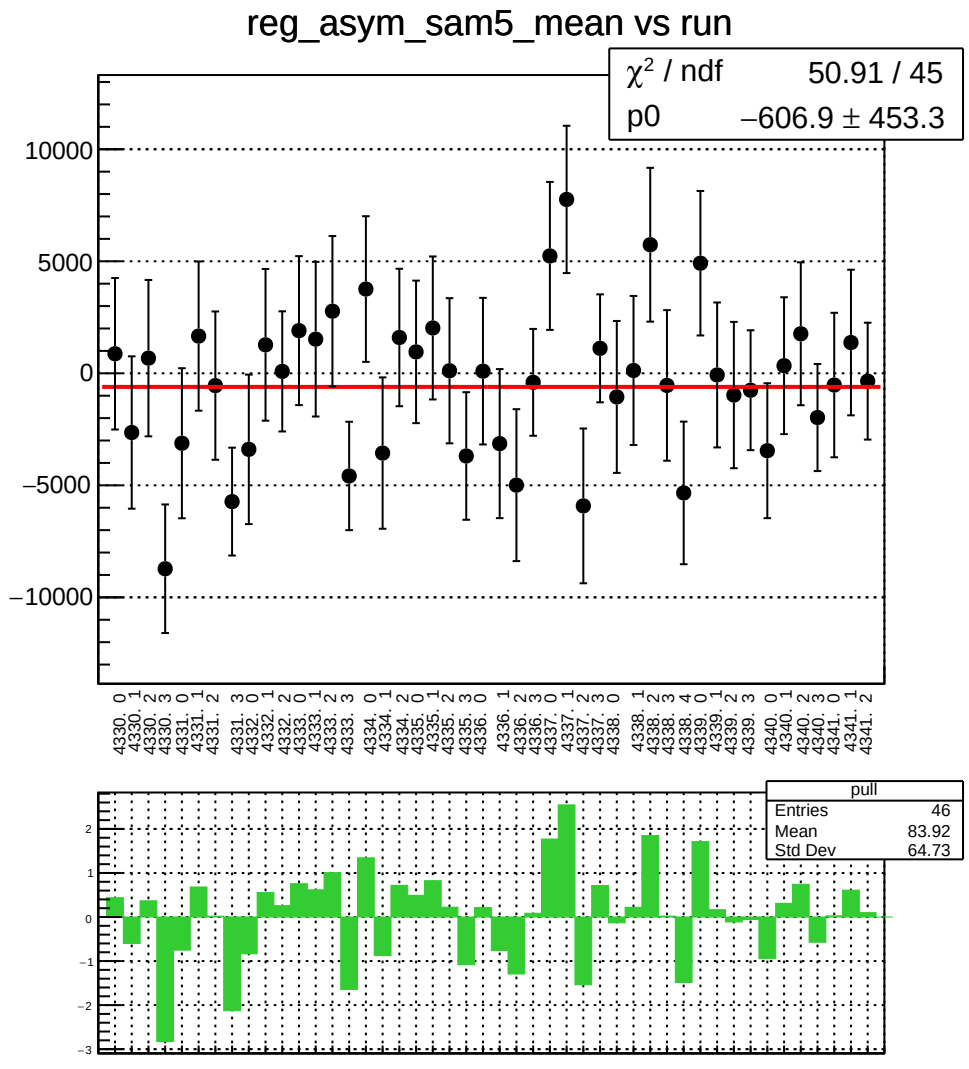

pull1D
Entries 46
Mean 0.02633
Std Dev 1.043

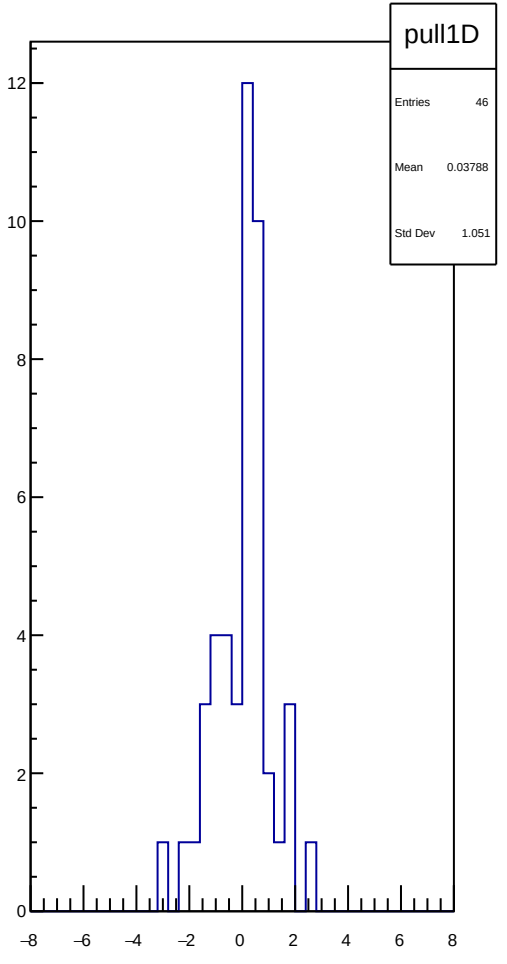

reg_asym_sam4_rms vs run
χ² / ndf 204.2 / 45
p0 1282 ± 1.312
1340
1320
1300
1280
1260
1240
1220
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

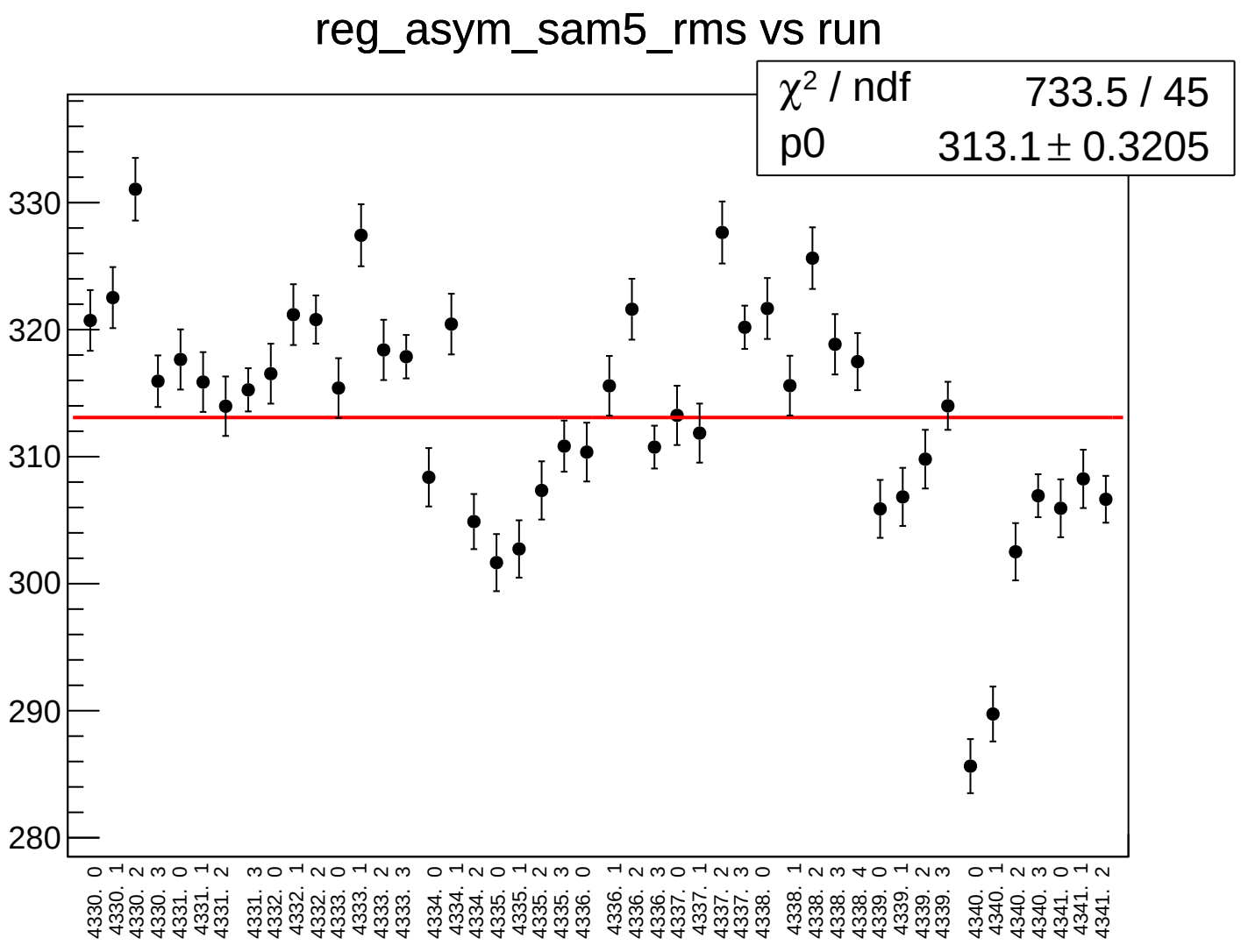

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 31.35 / 45
p0 1.217e+04 ± 6487
150
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −422.3
Std Dev 429.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

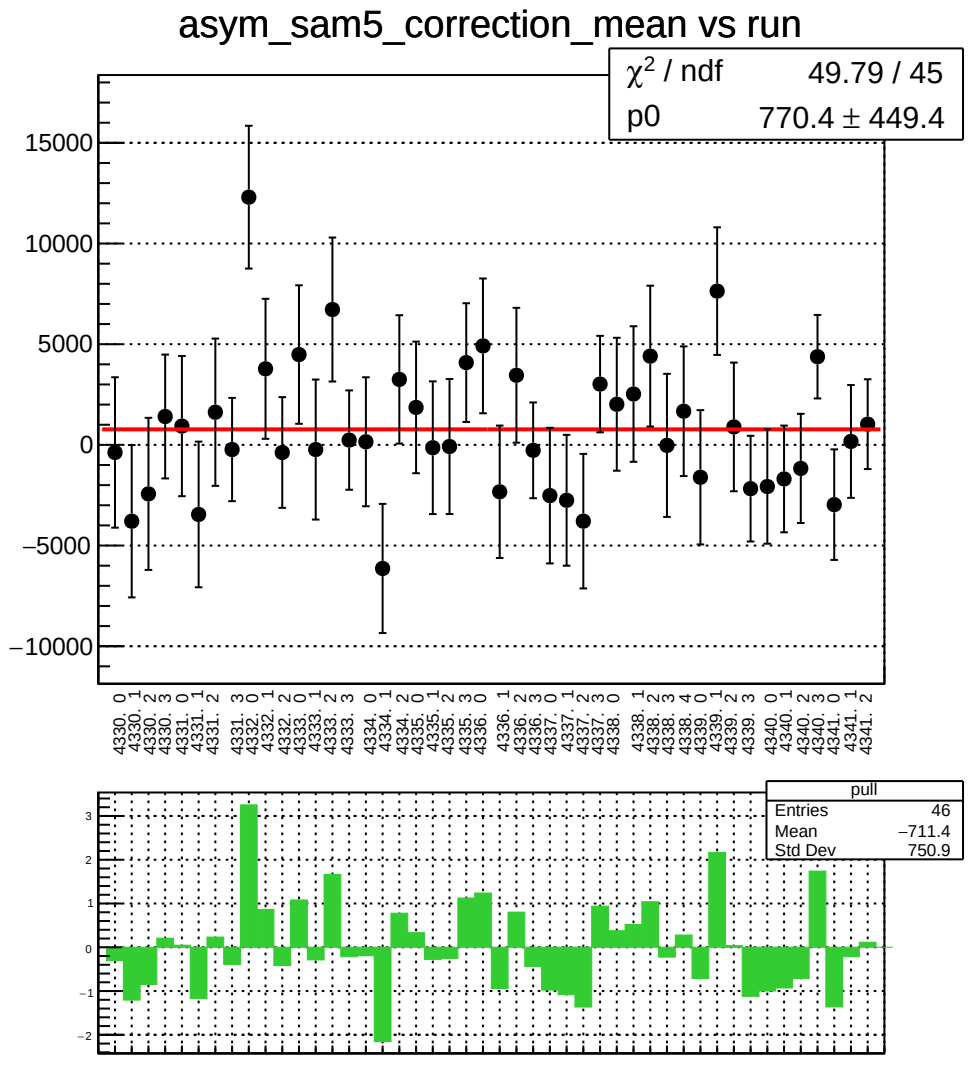

pull1D
Entries 46
Mean −0.001619
Std Dev 0.8256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

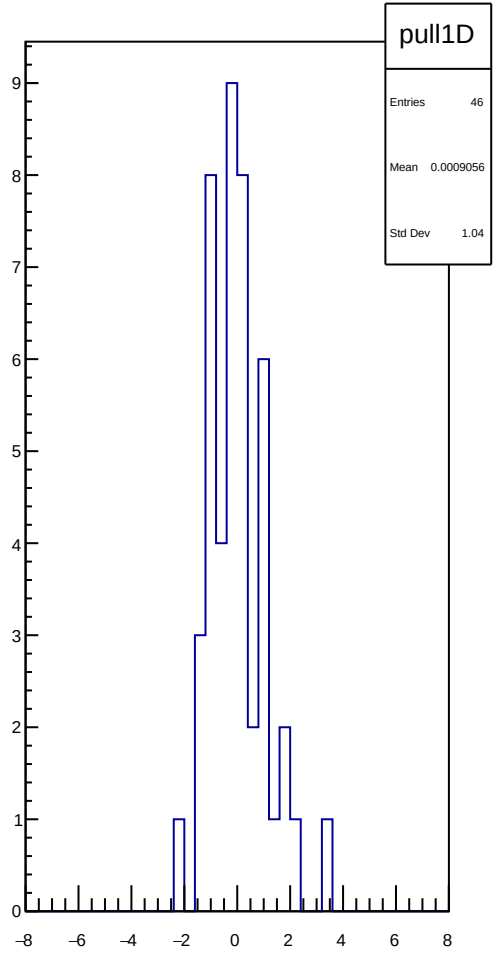

asym_sam4_correction_rms vs run
χ² / ndf 244 / 45
p0 4481 ± 4.587
4900
4800
4700
4600
4500
4400
4300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

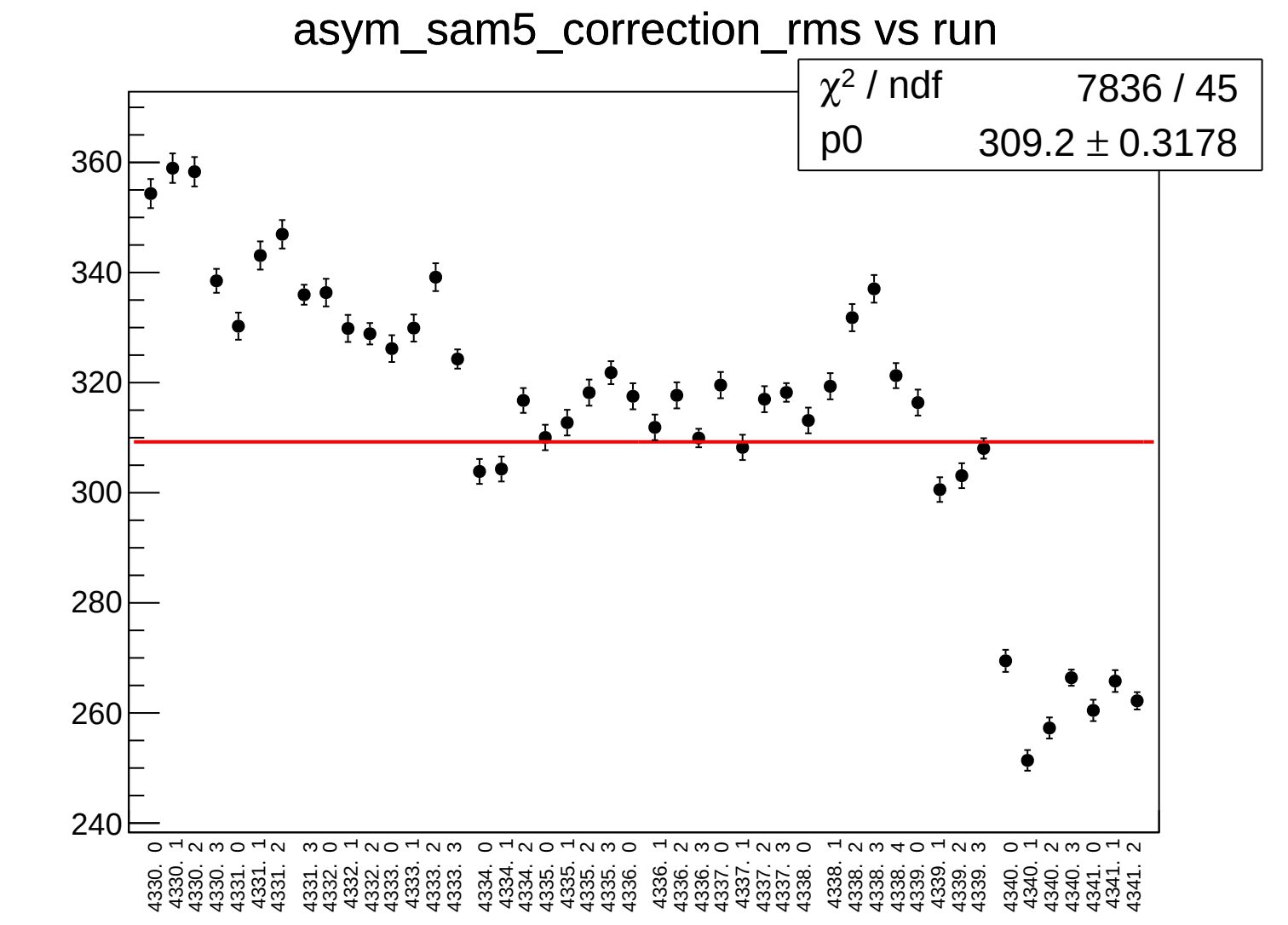

reg_asym_sam5_mean vs run
χ² / ndf 50.91 / 45
p0 −606.9 ± 453.3
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 83.92
Std Dev 64.73
2
1
0
−1
−2
−3

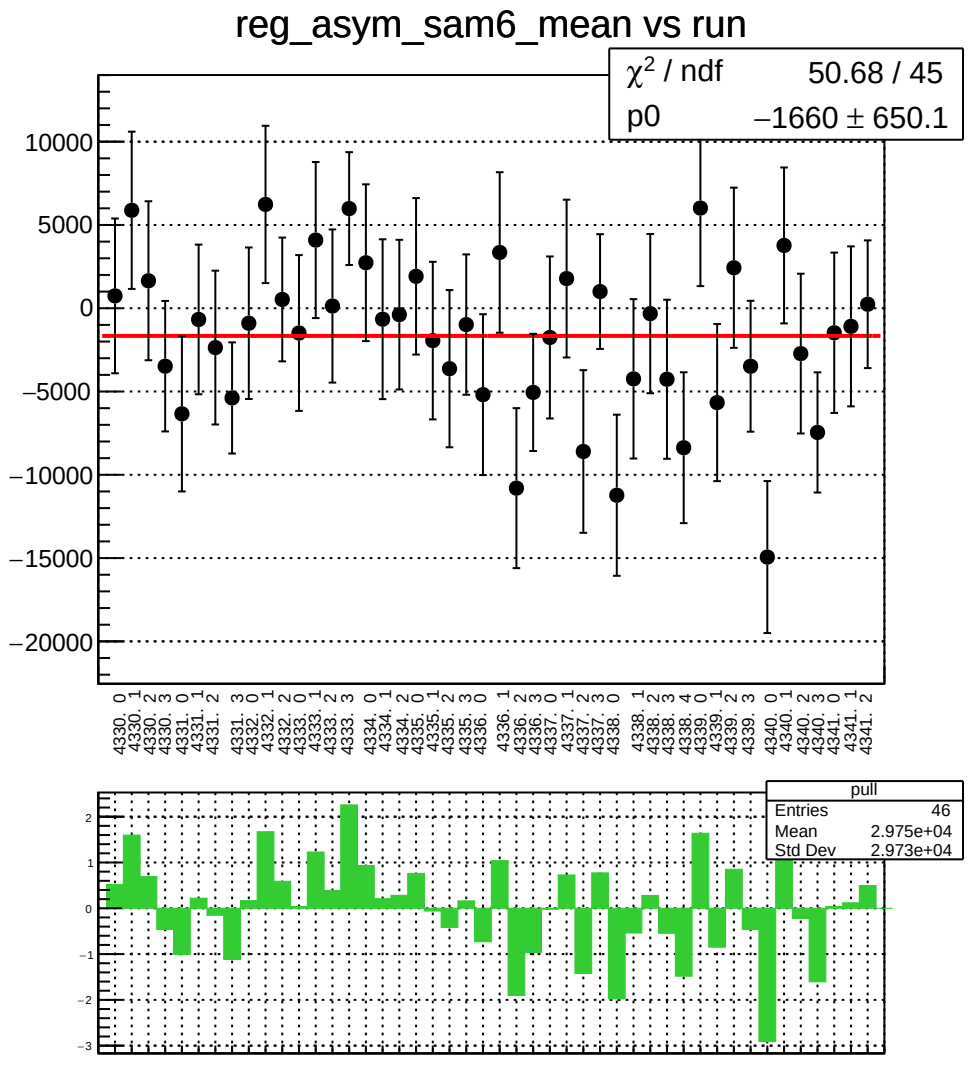

pull1D
Entries 46
Mean 0.03788
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

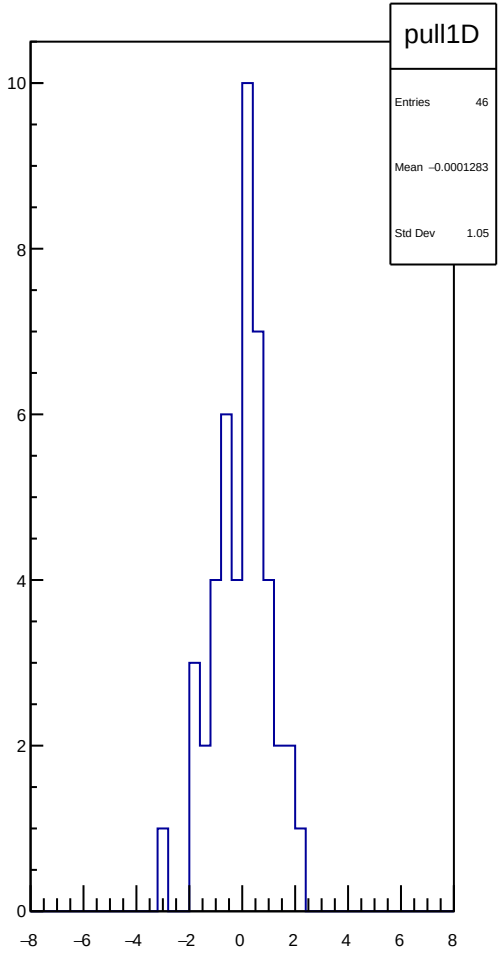

reg_asym_sam5_rms vs run
χ² / ndf 733.5 / 45
p0 313.1 ± 0.3205
330
320
310
300
290
280
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

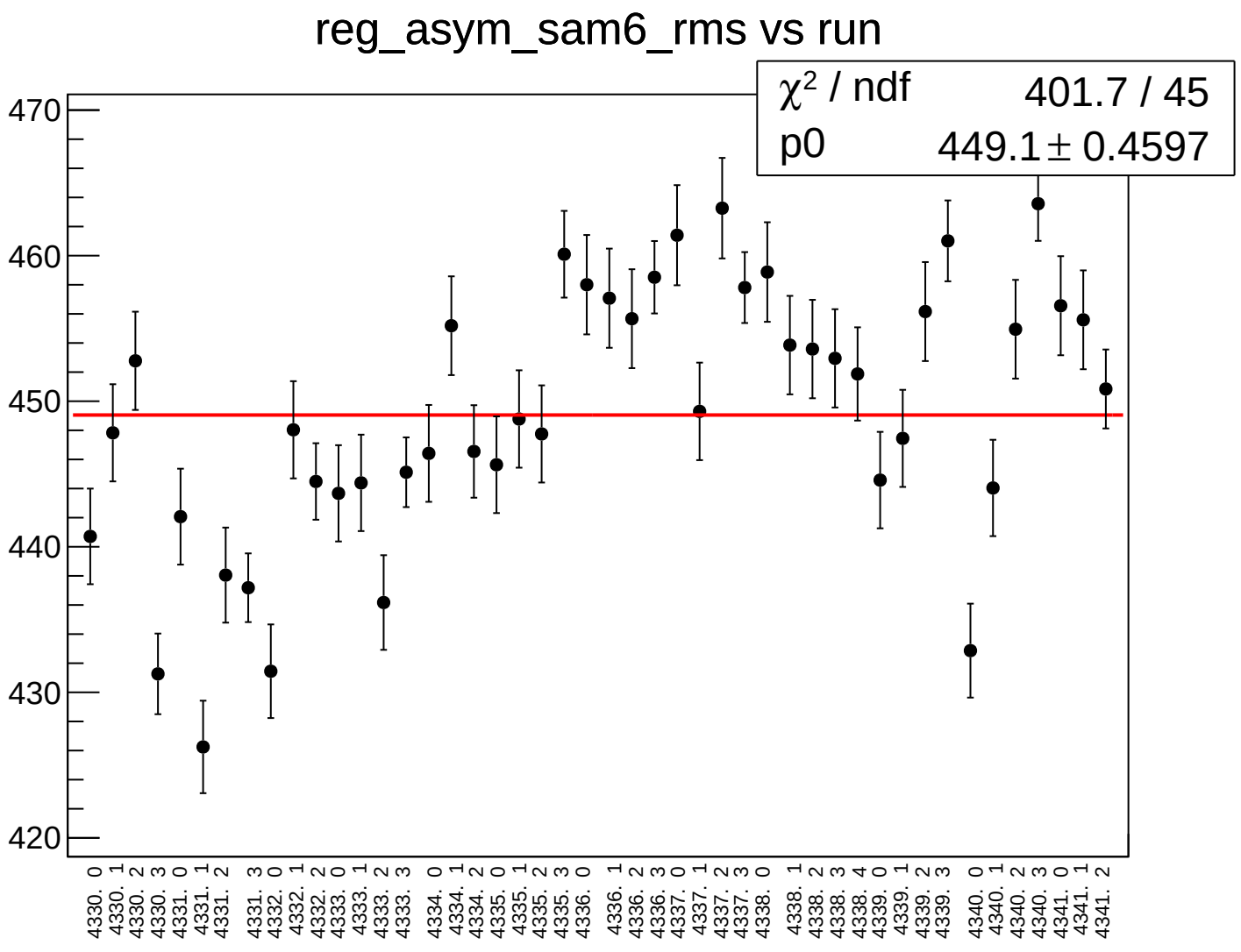

asym_sam5_correction_mean vs run
χ² / ndf 49.79 / 45
p0 770.4 ± 449.4
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −711.4
Std Dev 750.9
3
2
1
0
−1
−2

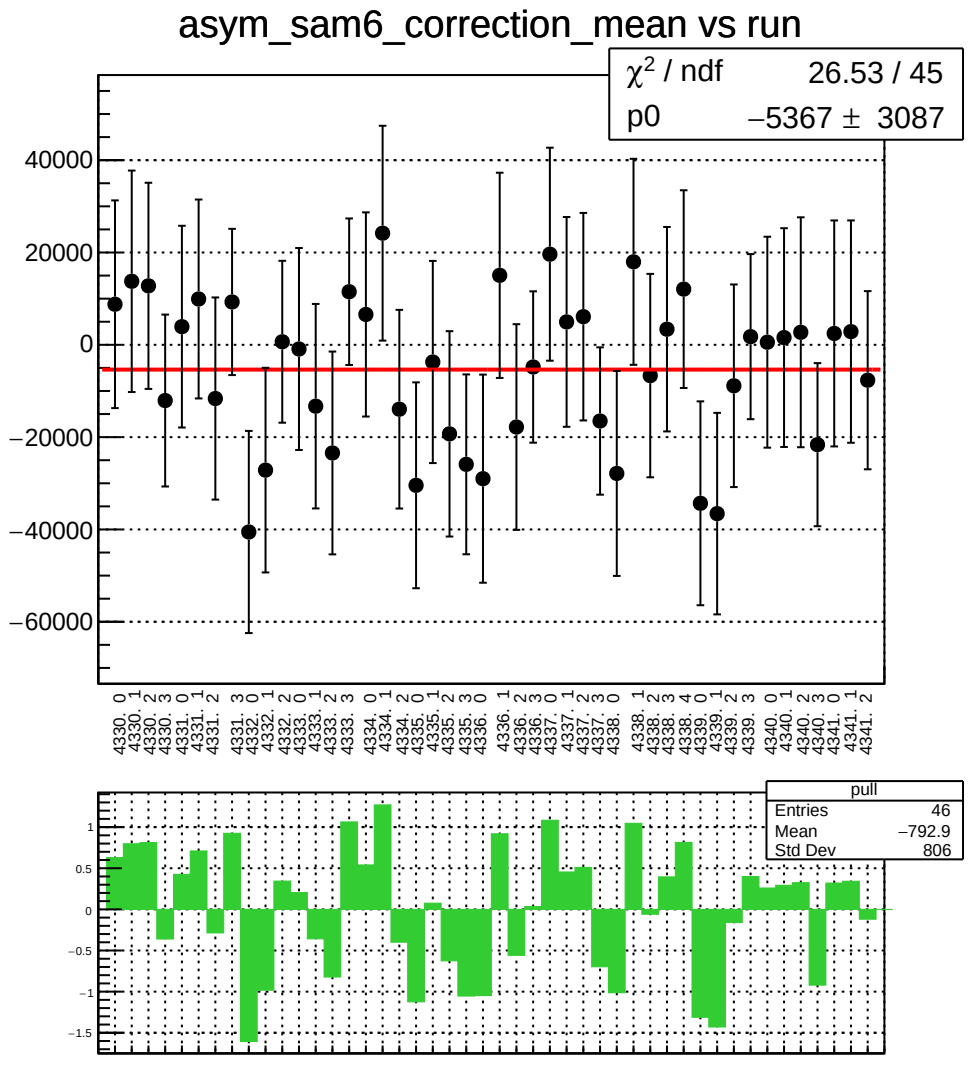

pull1D
Entries 46
Mean 0.0009056
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

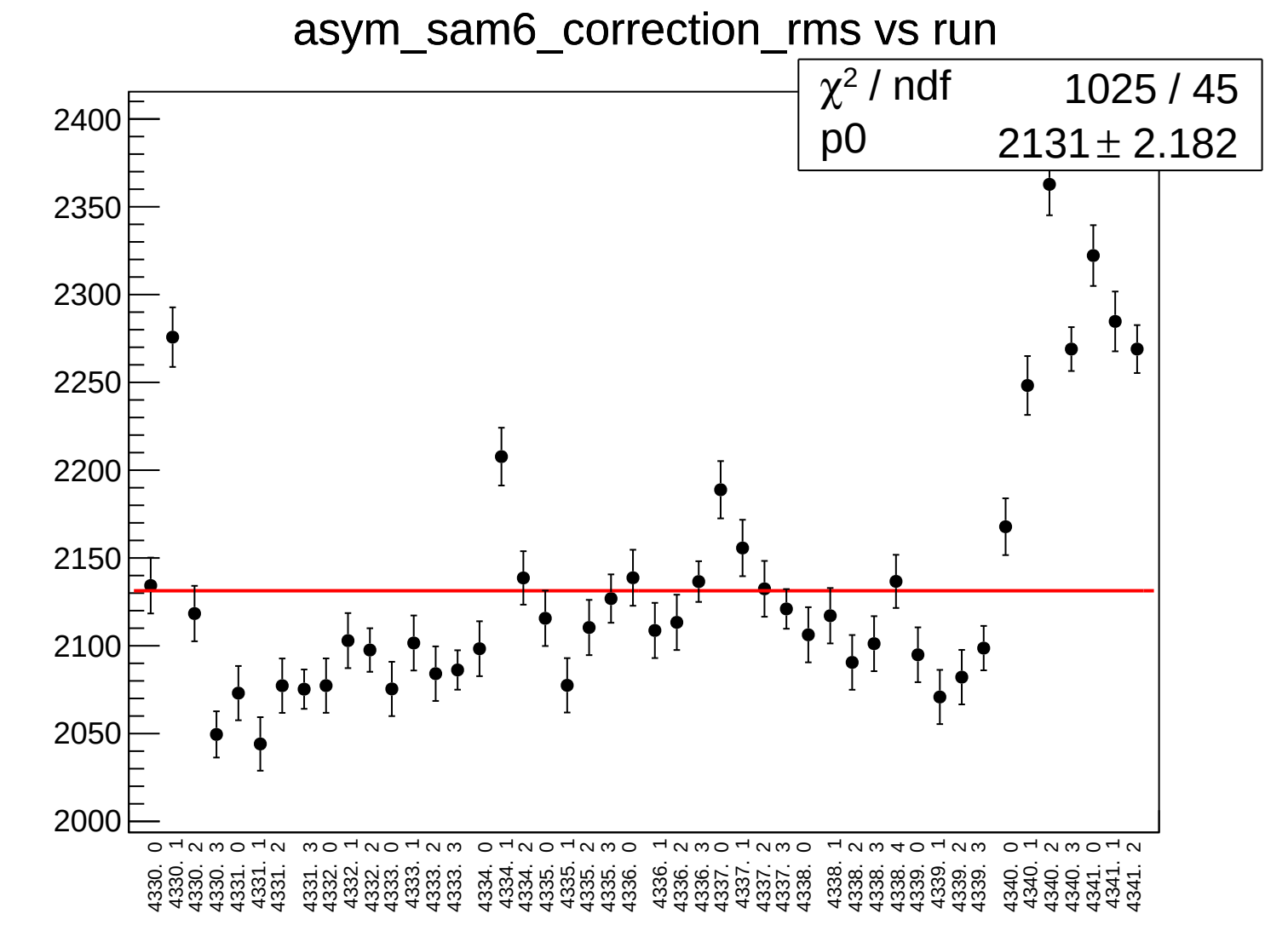

asym_sam5_correction_rms vs run
χ² / ndf 7836 / 45
p0 309.2 ± 0.3178
360
340
320
300
280
260
240
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

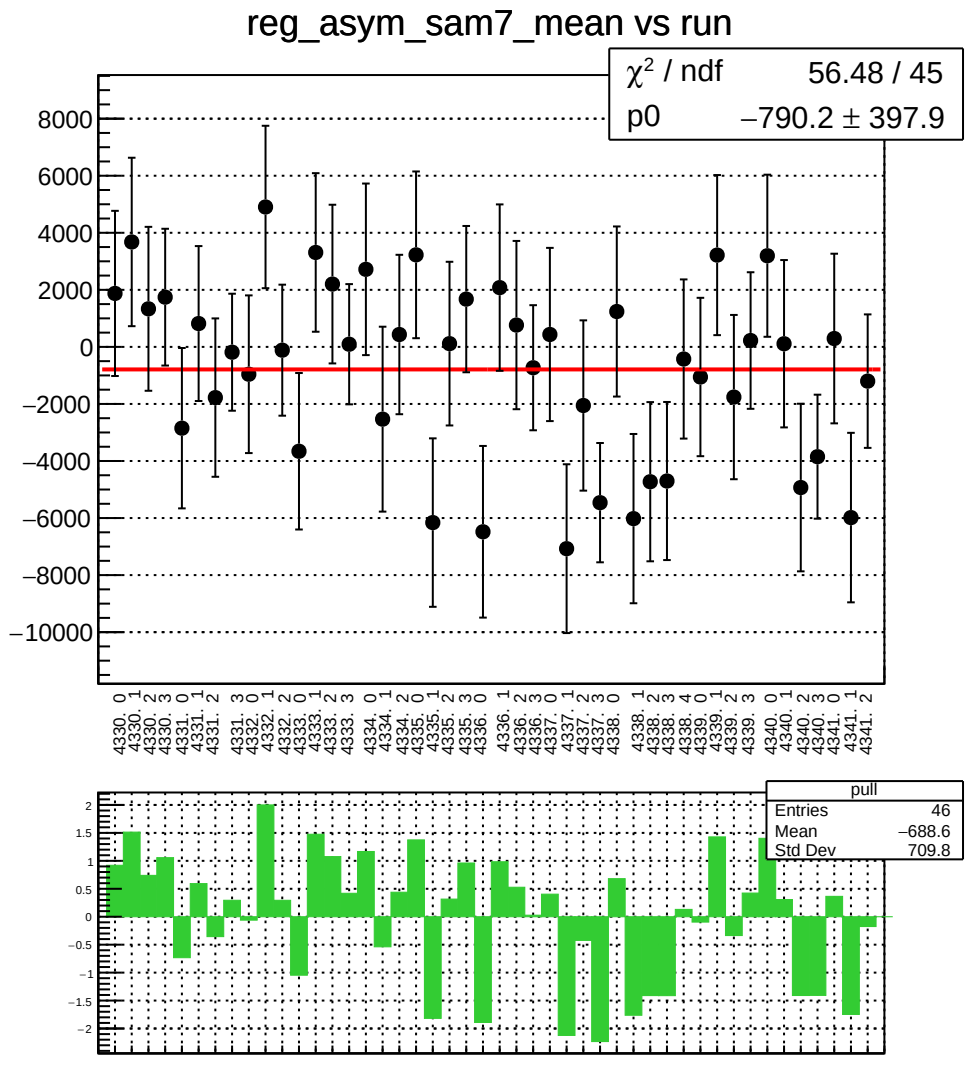

reg_asym_sam6_mean vs run
χ² / ndf 50.68 / 45
p0 −1660 ± 650.1
10000
5000
0
−5000
−10000
−15000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 2.975e+04
Std Dev 2.973e+04
2
1
0
−1
−2
−3

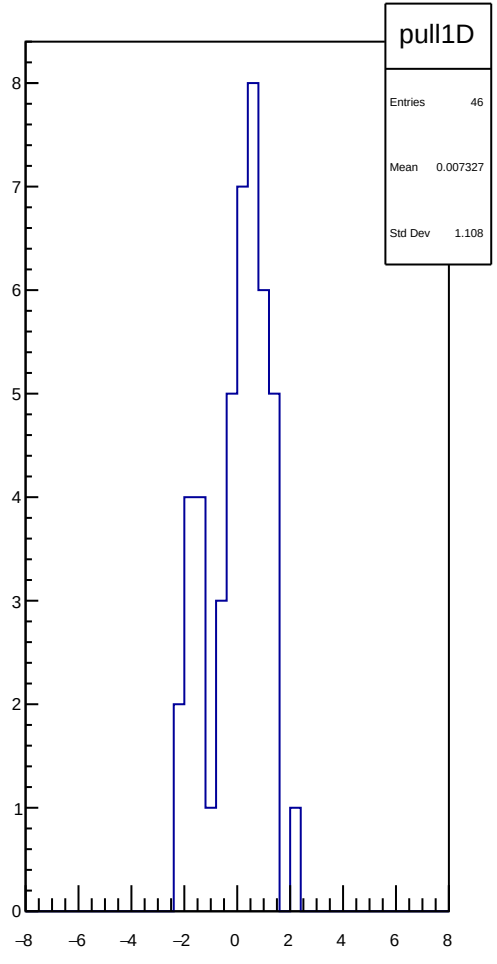

pull1D
Entries 46
Mean −0.0001283
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

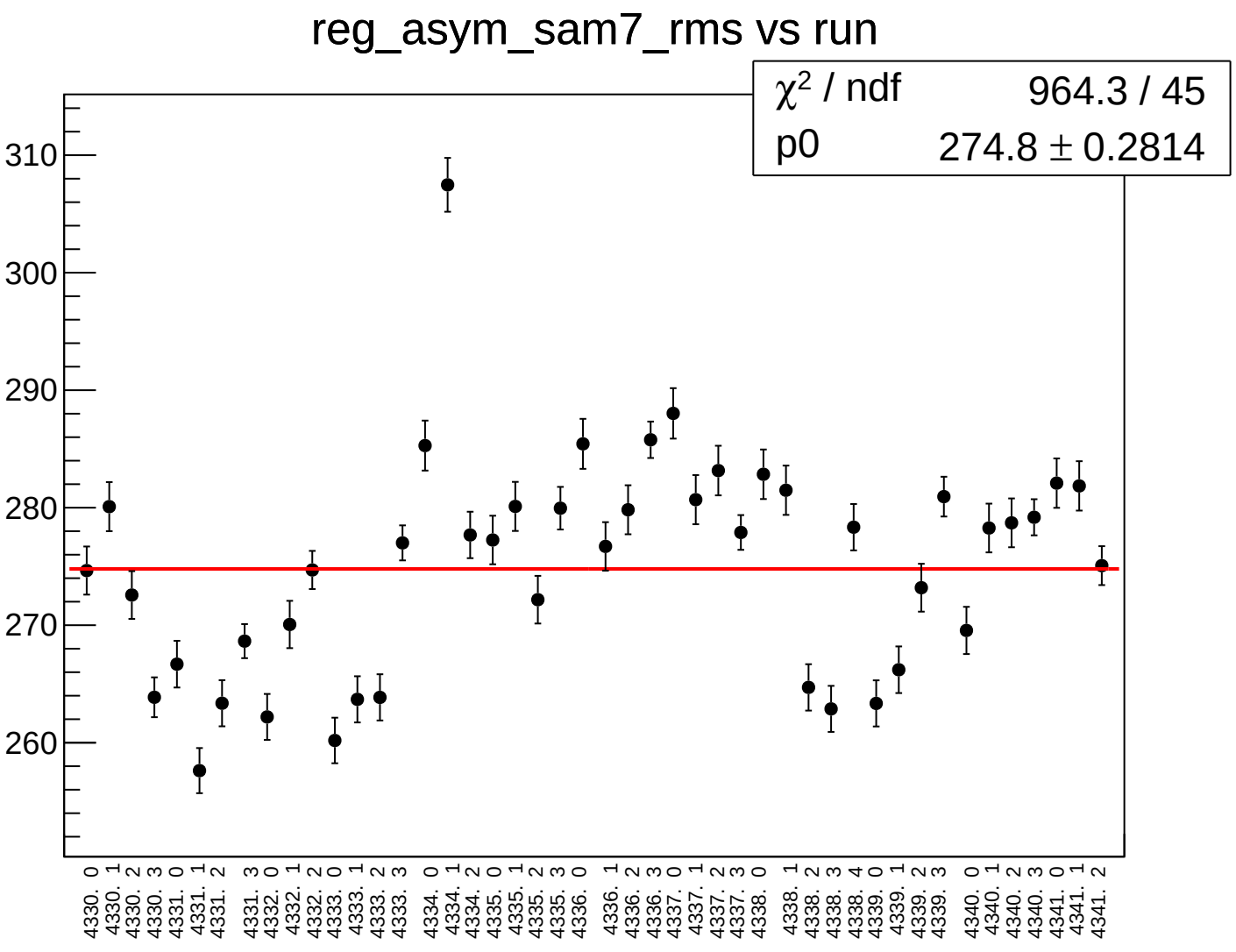

reg_asym_sam6_rms vs run
χ² / ndf 401.7 / 45
p0 449.1 ± 0.4597
470
460
450
440
430
420
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

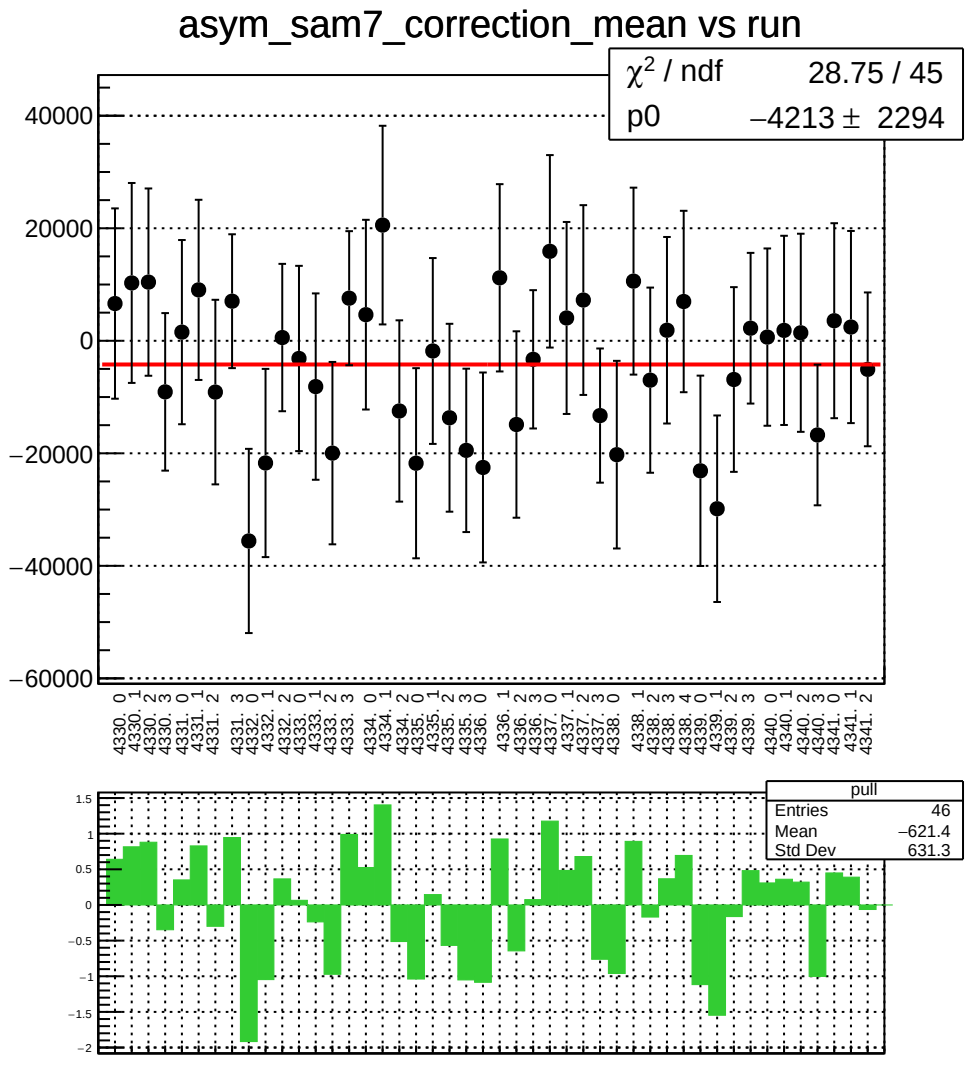

asym_sam6_correction_mean vs run
χ² / ndf 26.53 / 45
p0 −5367 ± 3087
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −792.9
Std Dev 806
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.001203
Std Dev 0.7595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

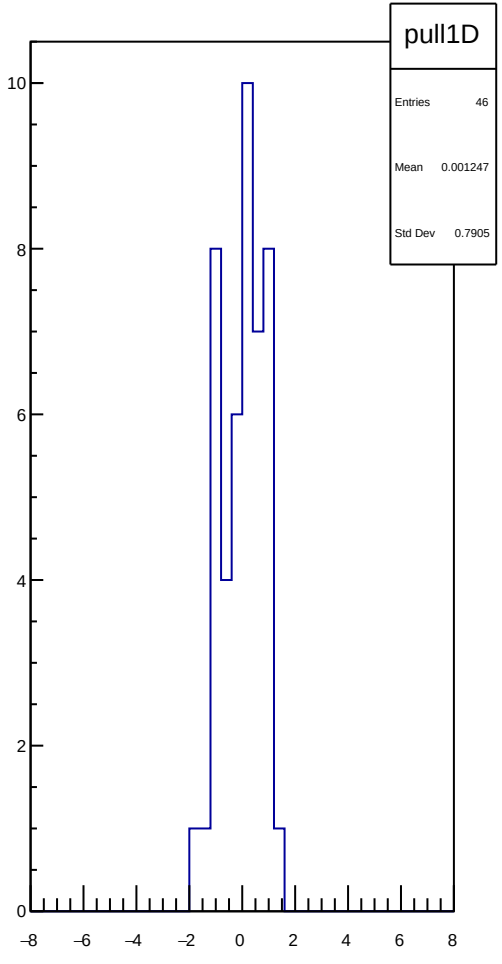

asym_sam6_correction_rms vs run
χ² / ndf 1025 / 45
p0 2131 ± 2.182
2400
2350
2300
2250
2200
2150
2100
2050
2000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

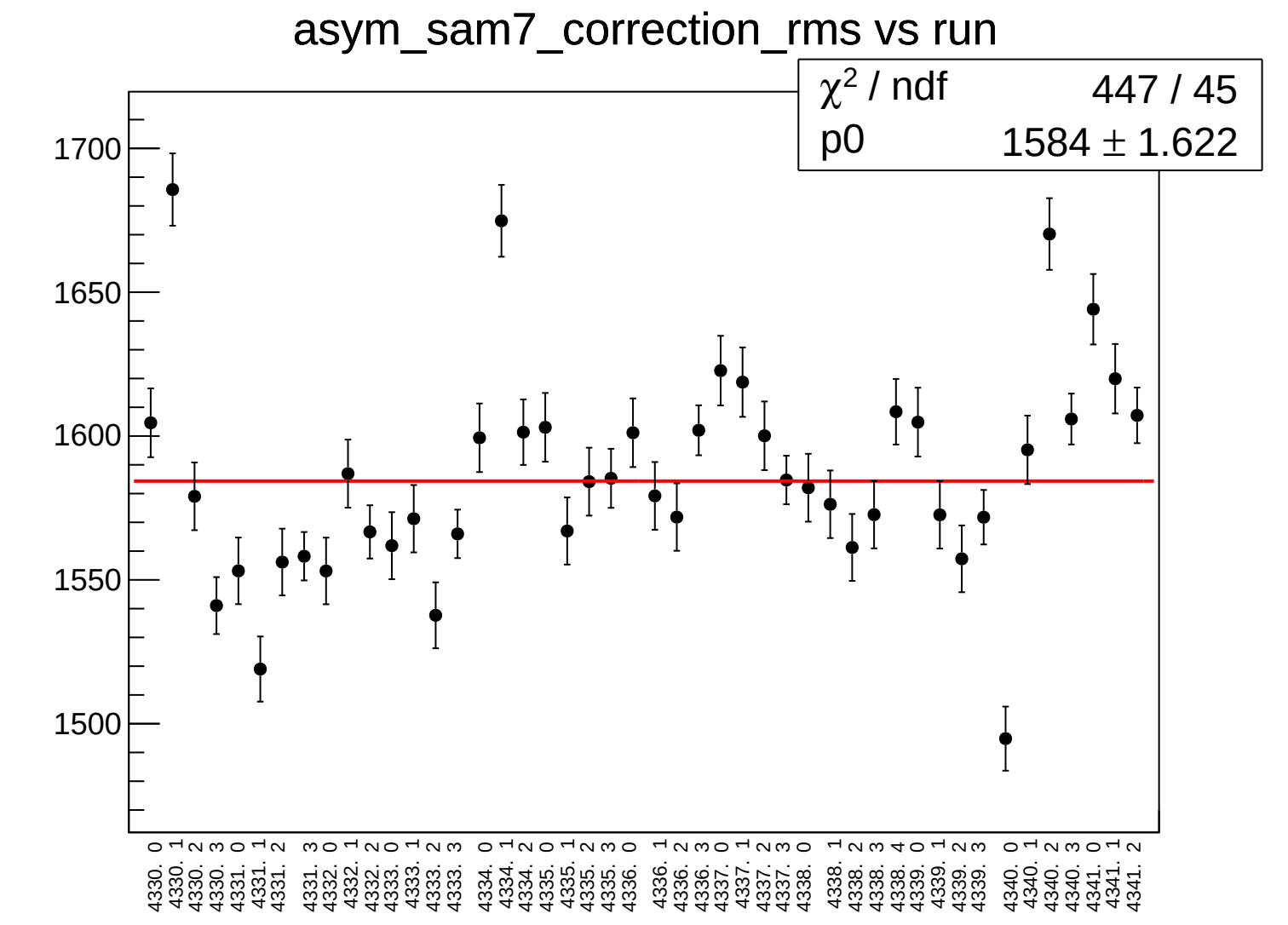

reg_asym_sam7_mean vs run
χ² / ndf 56.48 / 45
p0 −790.2 ± 397.9
pull
Entries 46
Mean −688.6
Std Dev 709.8

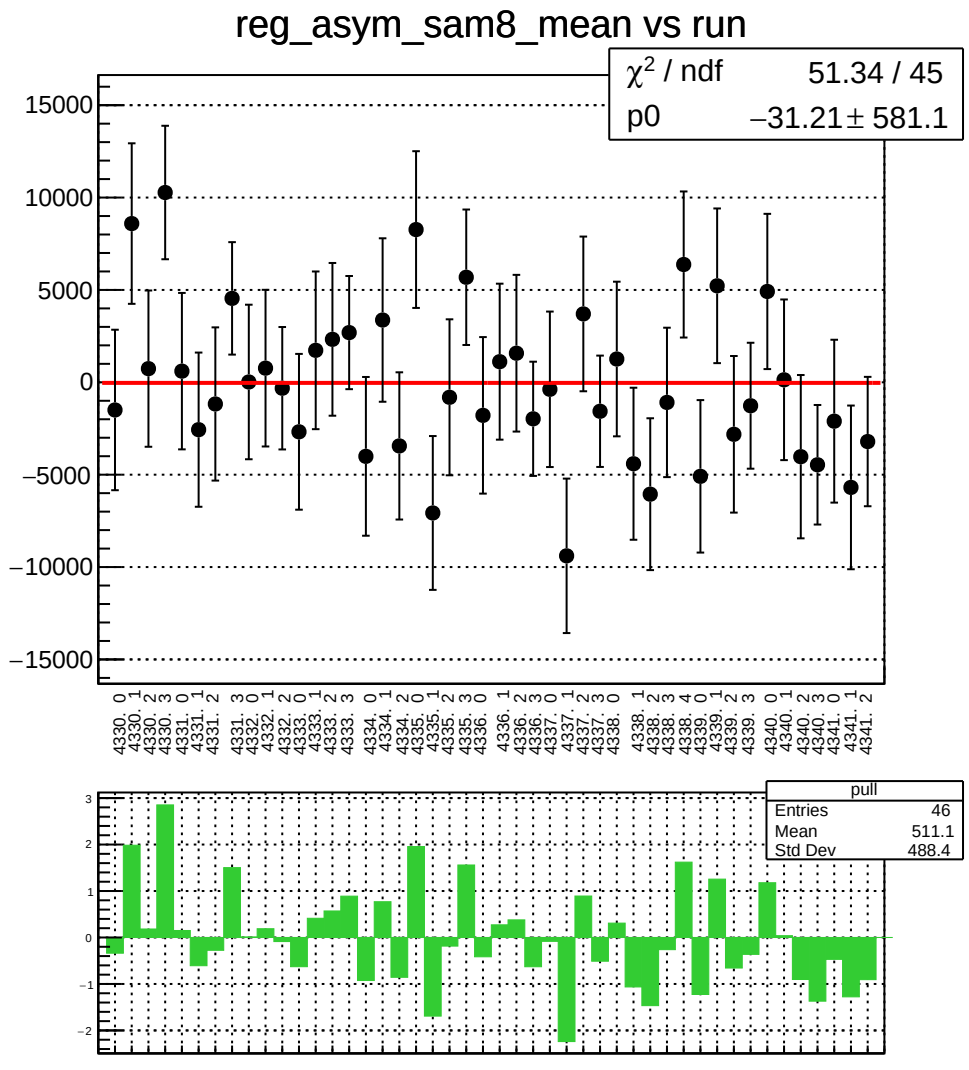

pull1D
Entries 46
Mean 0.007327
Std Dev 1.108

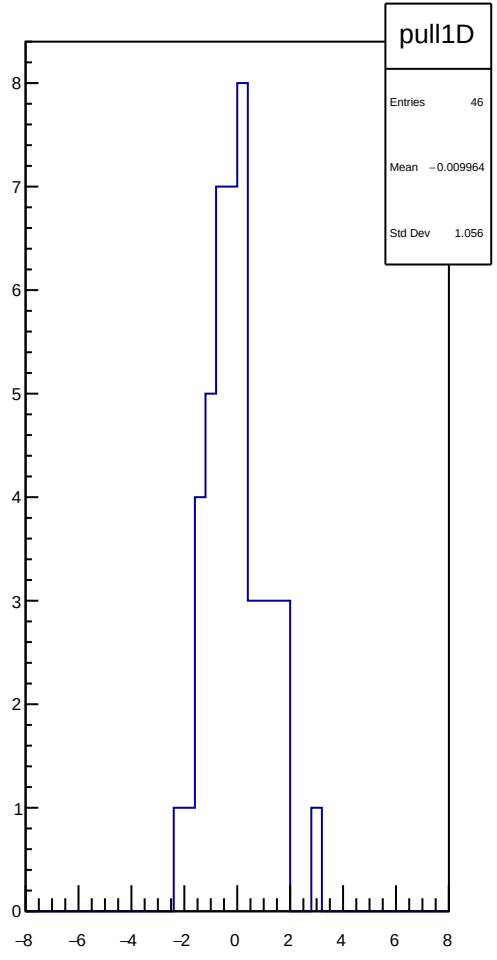

reg_asym_sam7_rms vs run
χ² / ndf 964.3 / 45
p0 274.8 ± 0.2814
310
300
290
280
270
260
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

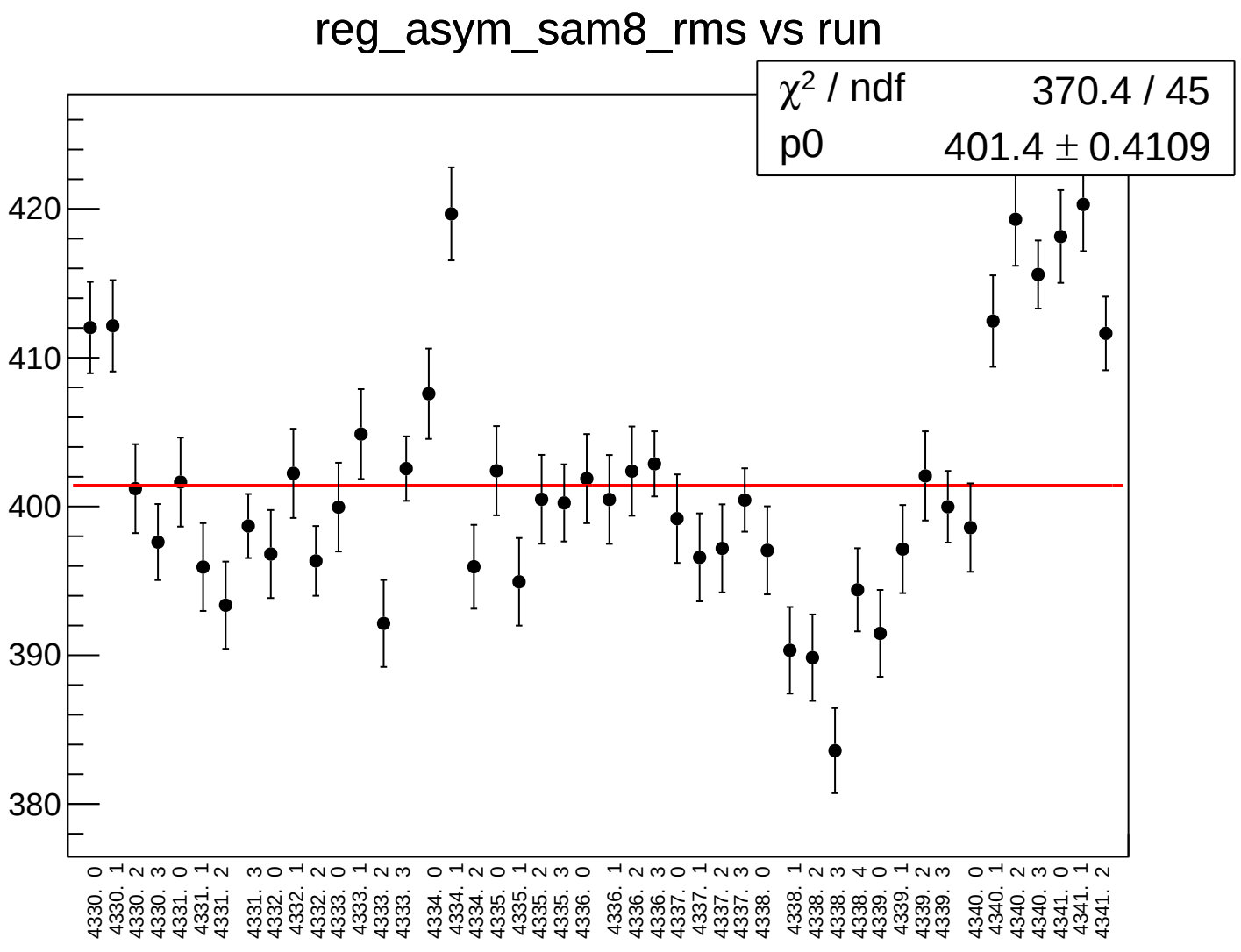

asym_sam7_correction_mean vs run
χ² / ndf 28.75 / 45
p0 −4213 ± 2294
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −621.4
Std Dev 631.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

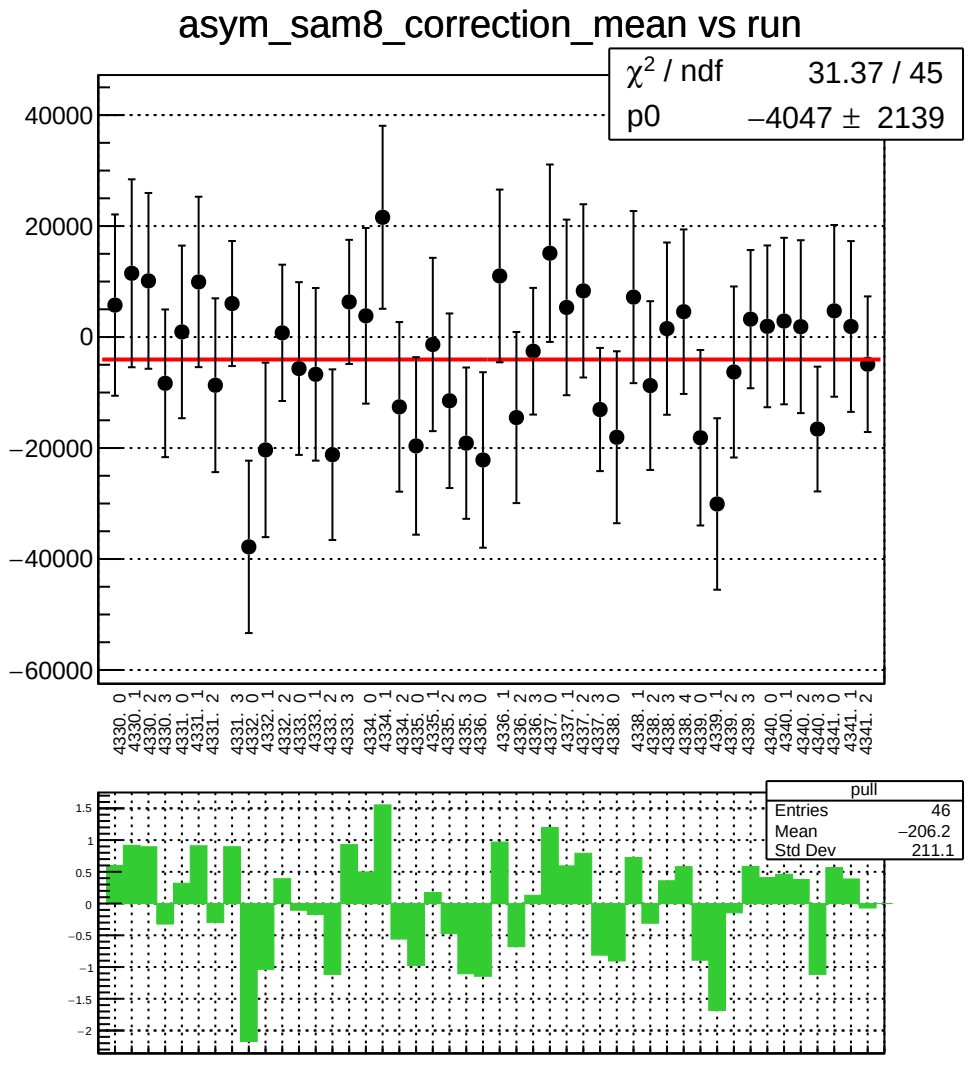

pull1D
Entries 46
Mean 0.001247
Std Dev 0.7905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

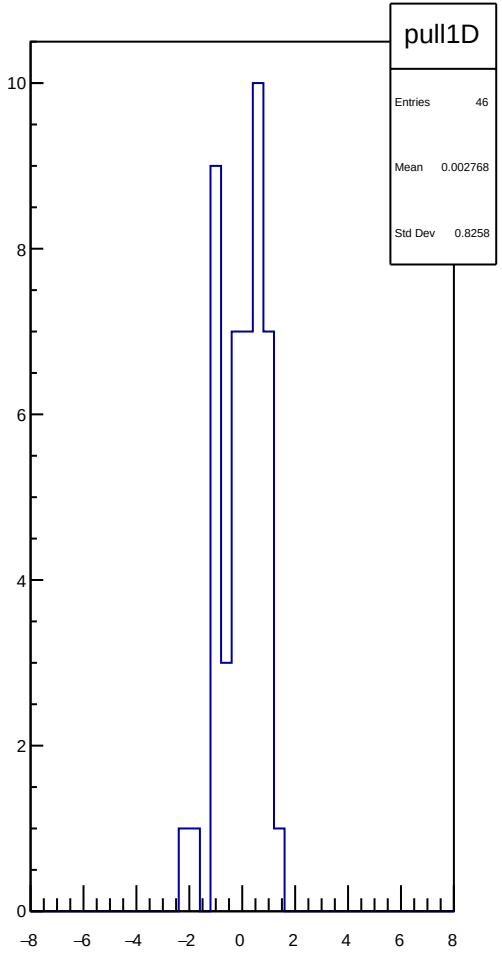

asym_sam7_correction_rms vs run
χ² / ndf 447 / 45
p0 1584 ± 1.622
1700
1650
1600
1550
1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

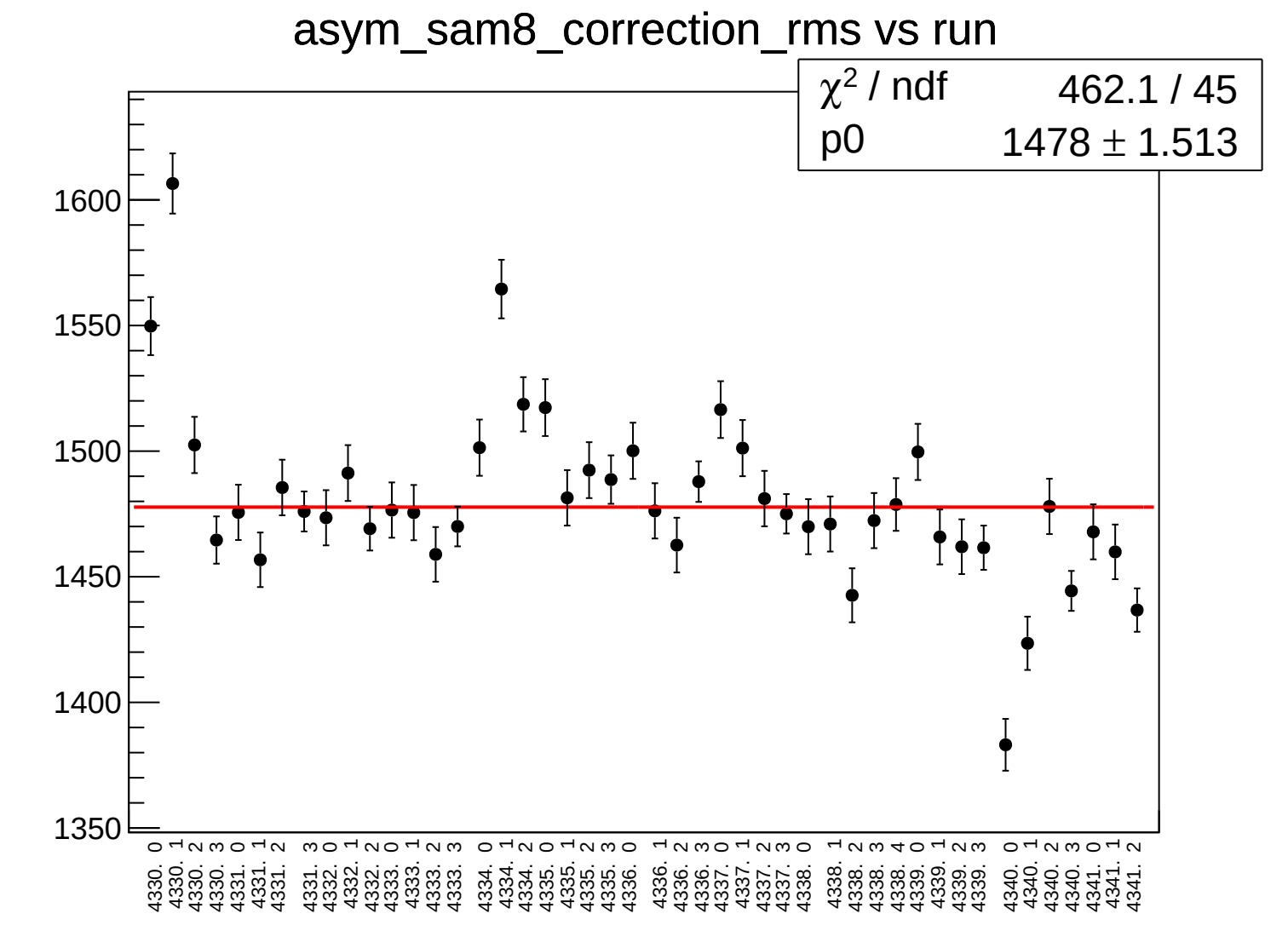

reg_asym_sam8_mean vs run
χ² / ndf 51.34 / 45
p0 −31.21 ± 581.1
15000
10000
5000
0
−5000
−10000
−15000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 511.1
Std Dev 488.4
3
2
1
0
−1
−2

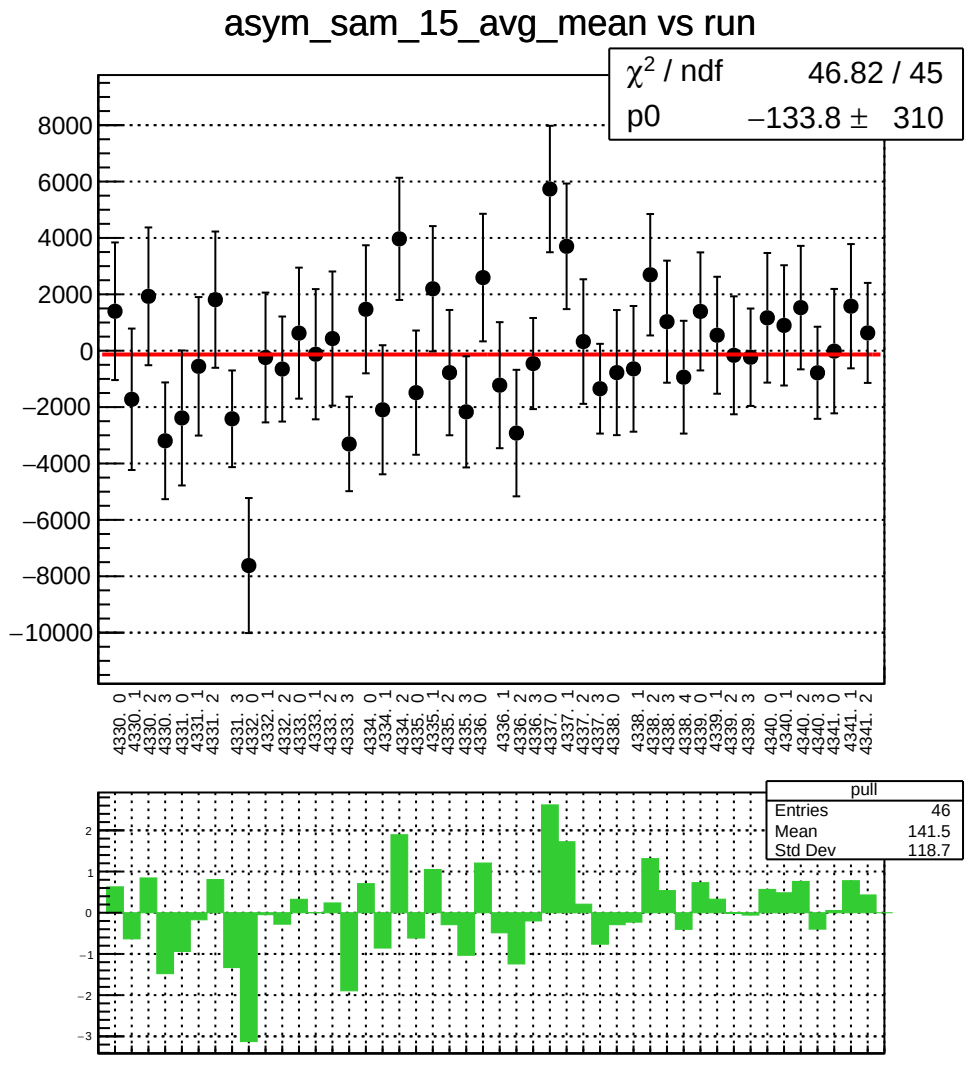

pull1D
Entries 46
Mean −0.009964
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

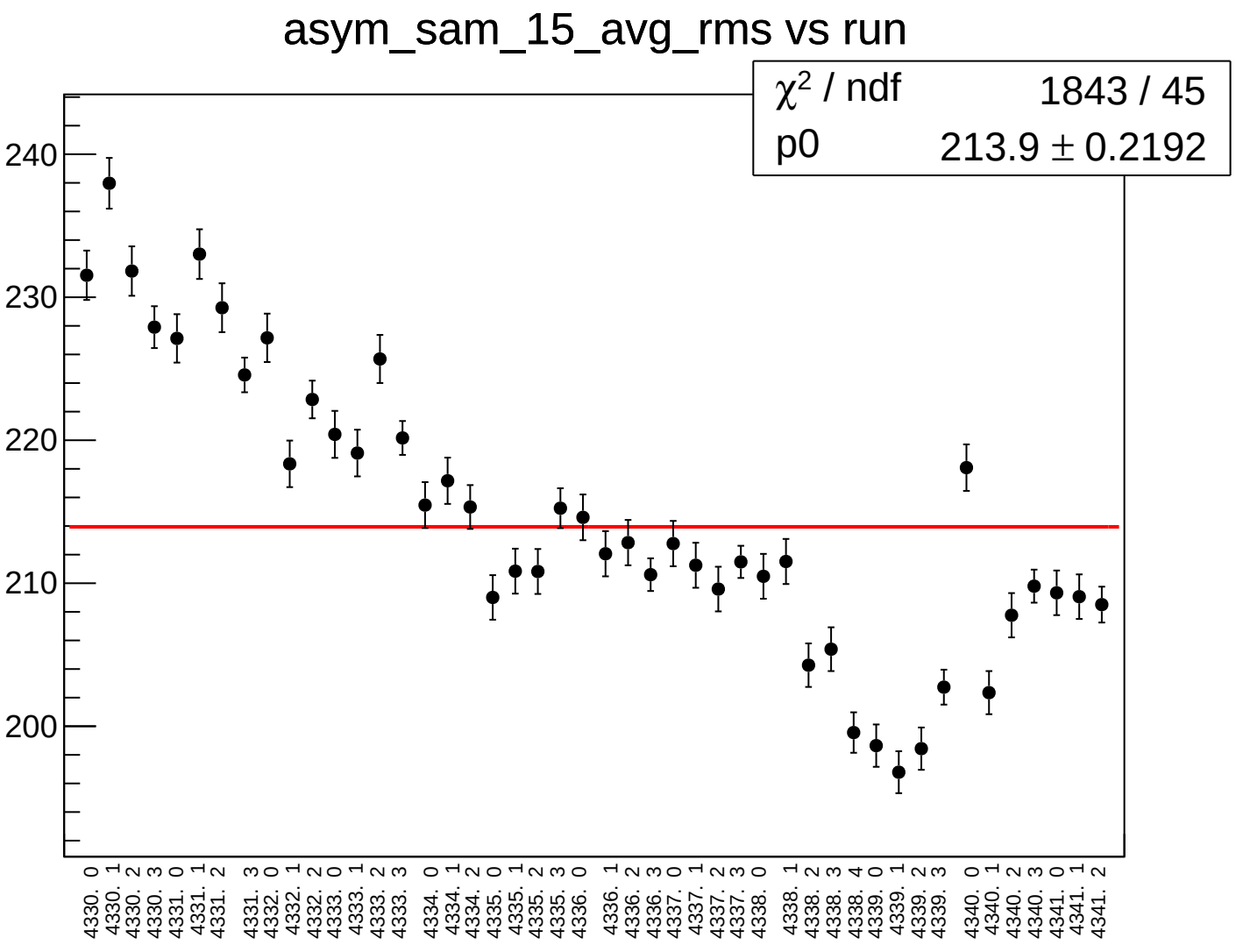

reg_asym_sam8_rms vs run
χ² / ndf 370.4 / 45
p0 401.4 ± 0.4109
420
410
400
390
380
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

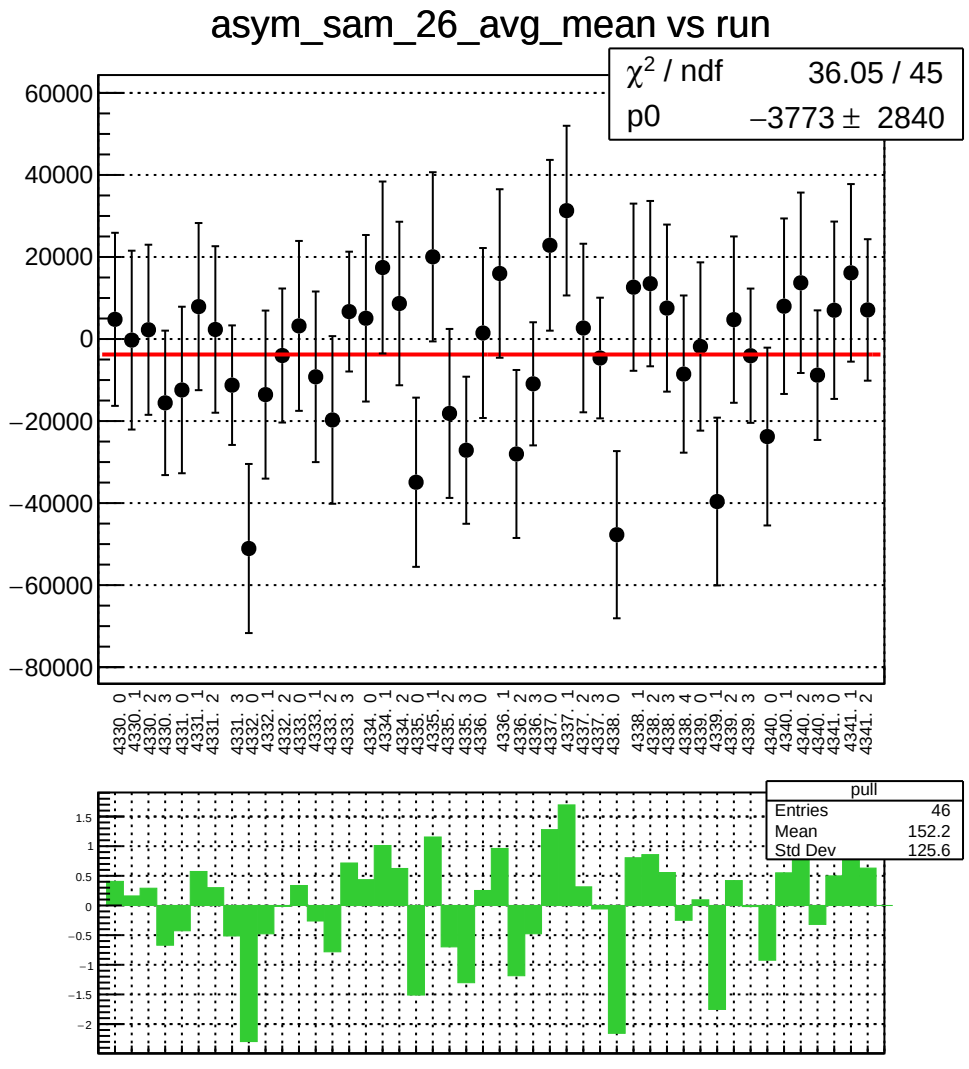

asym_sam8_correction_mean vs run
χ² / ndf 31.37 / 45
p0 −4047 ± 2139
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −206.2
Std Dev 211.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

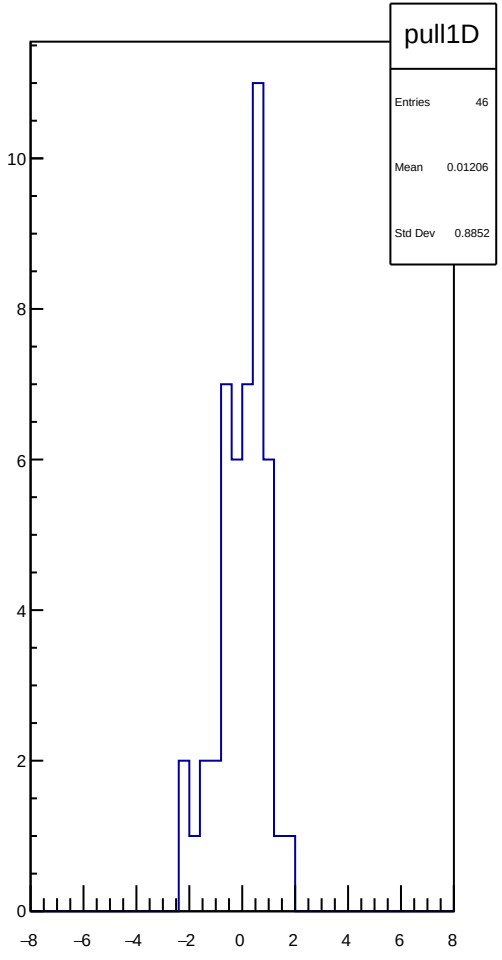

pull1D
Entries 46
Mean 0.002768
Std Dev 0.8258
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

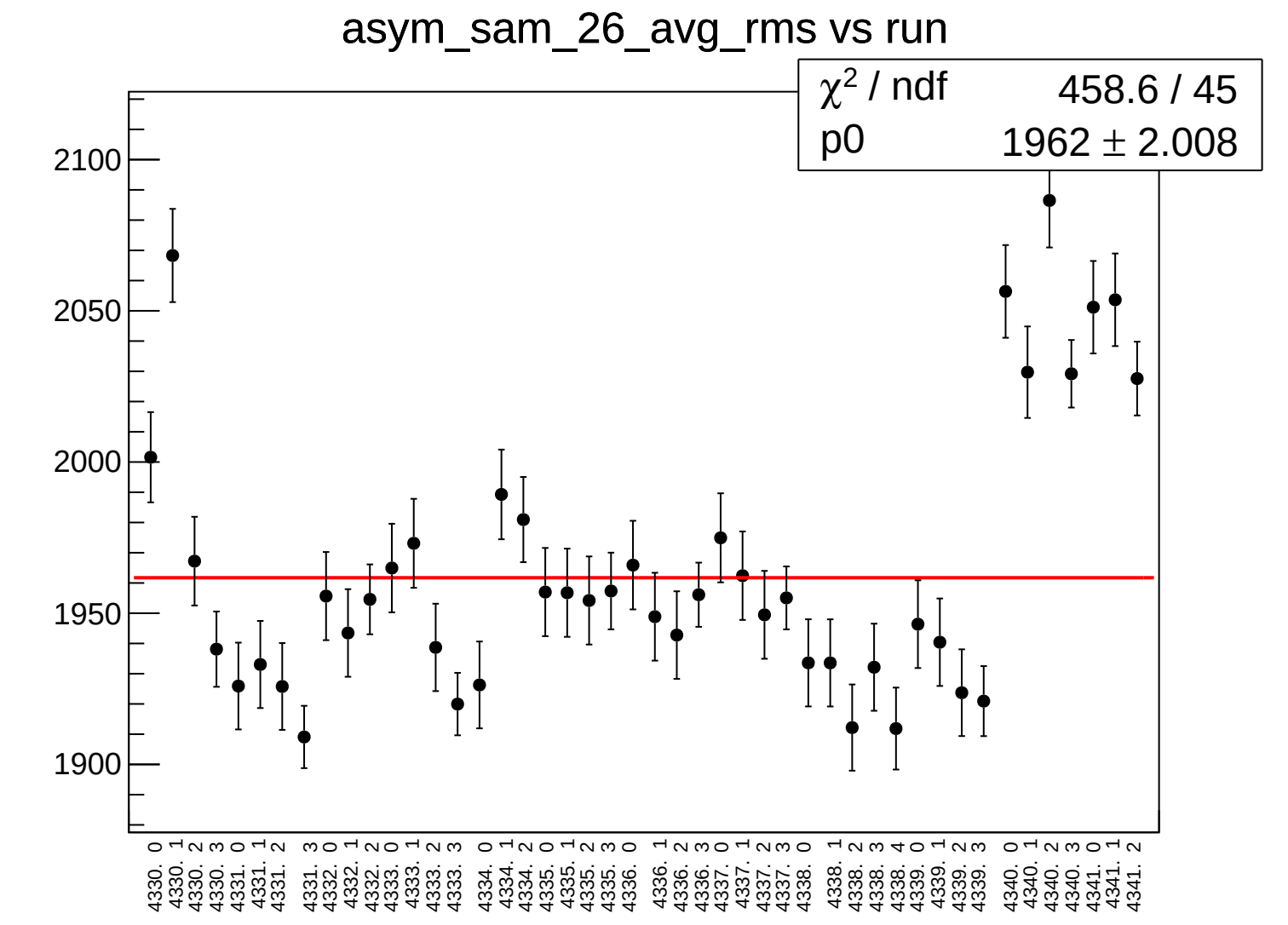

asym_sam8_correction_rms vs run
χ² / ndf 462.1 / 45
p0 1478 ± 1.513
1600
1550
1500
1450
1400
1350
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

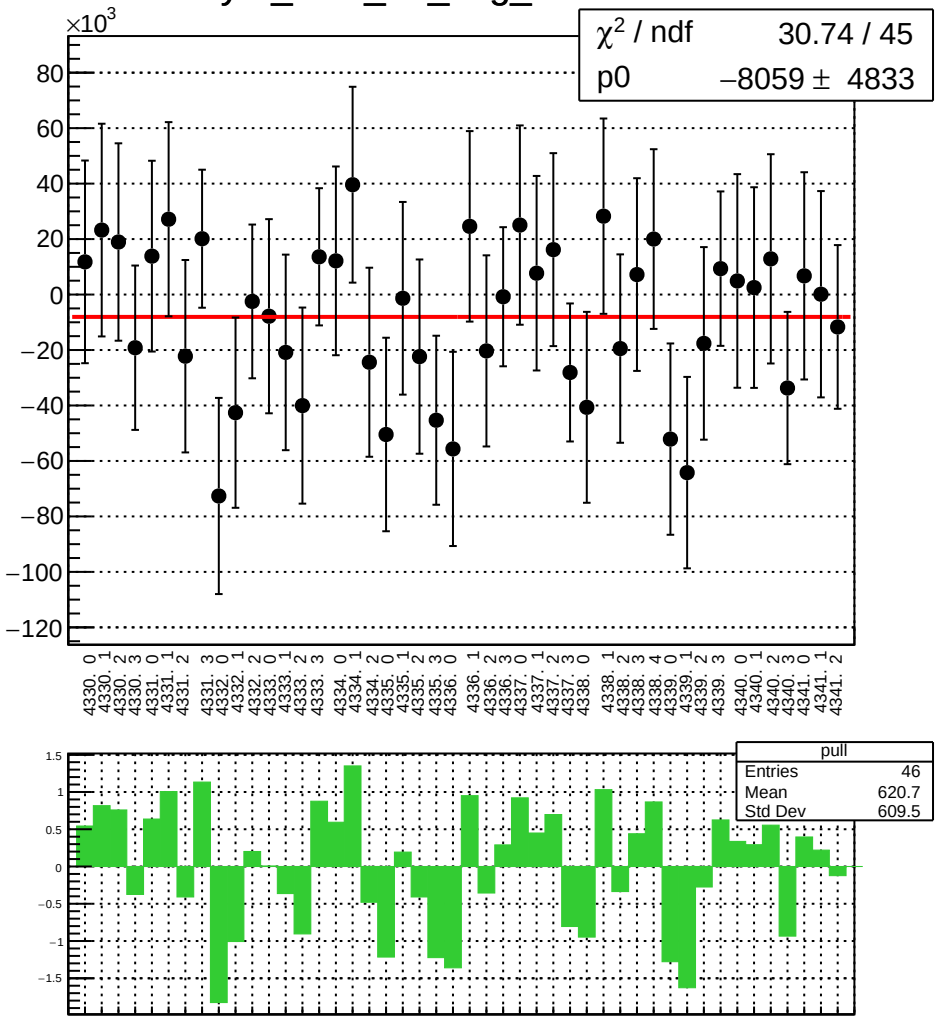

asym_sam_15_avg_mean vs run
χ² / ndf 46.82 / 45
p0 −133.8 ± 310
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 141.5
Std Dev 118.7
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.03172
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

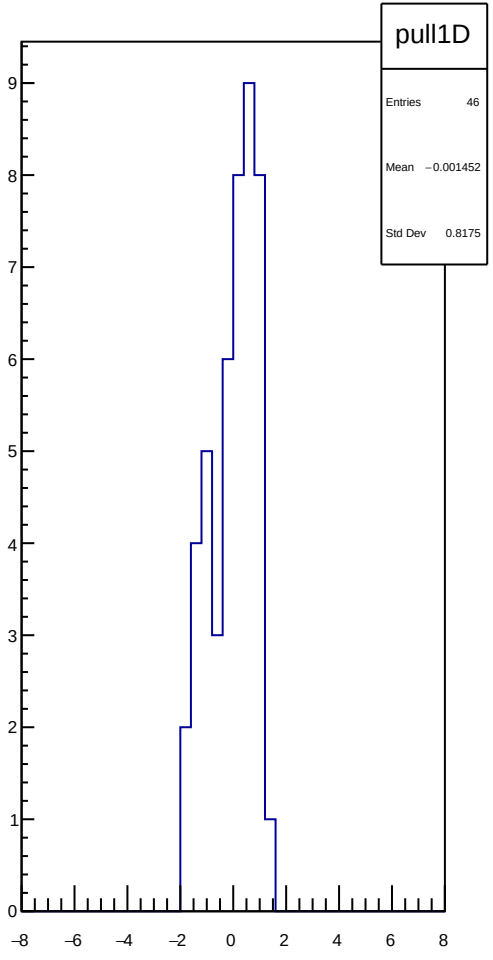

asym_sam_15_avg_rms vs run
χ² / ndf 1843 / 45
p0 213.9 ± 0.2192
240
230
220
210
200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

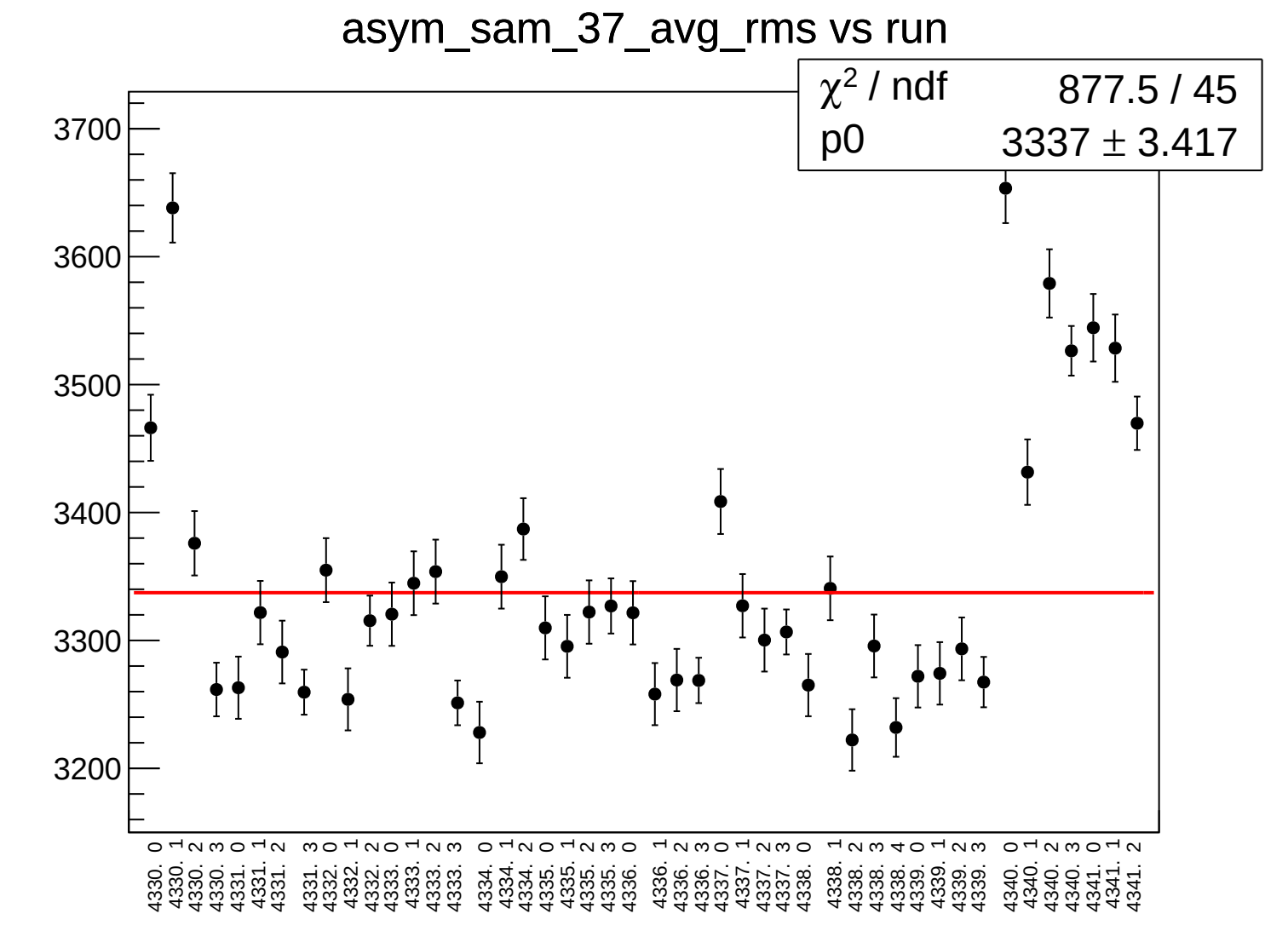

asym_sam_26_avg_mean vs run
χ² / ndf 36.05 / 45
p0 −3773 ± 2840
60000
40000
20000
0
−20000
−40000
−60000
−80000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 152.2
Std Dev 125.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

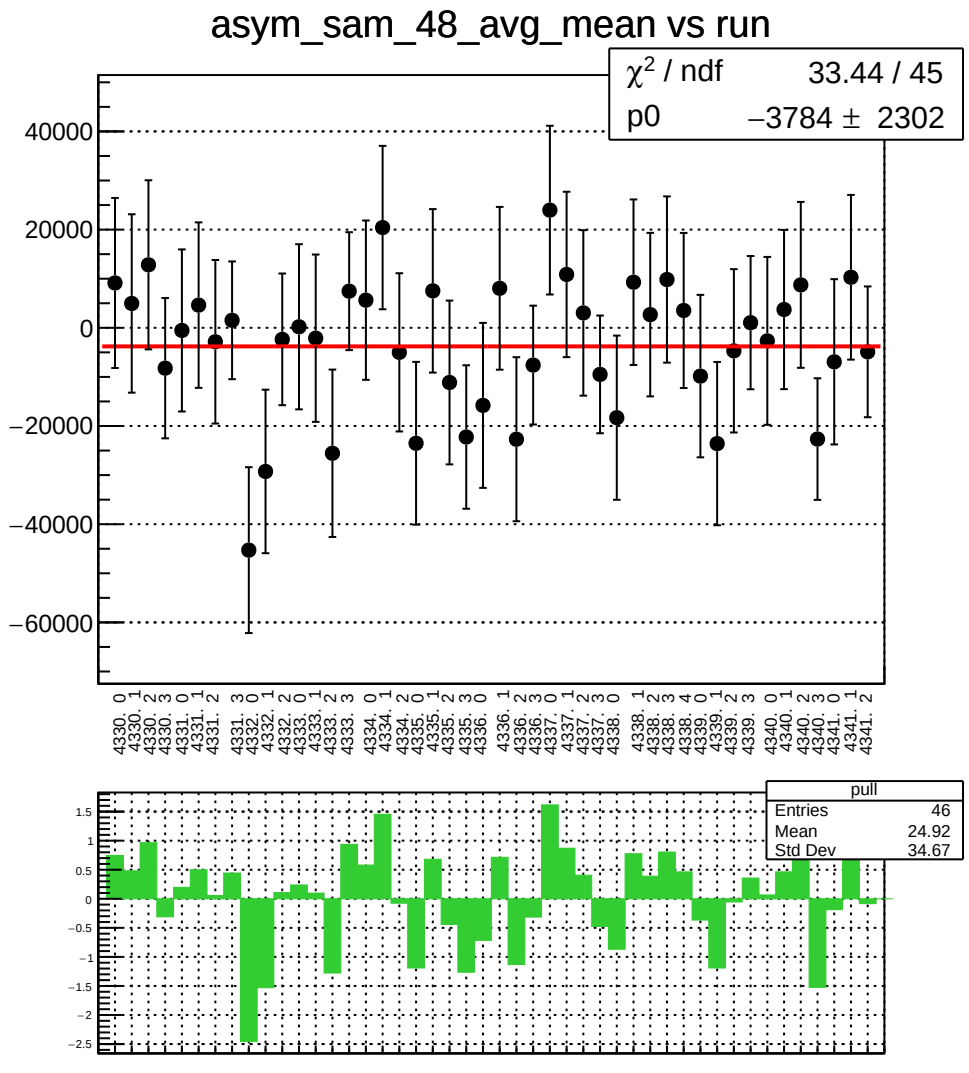

pull1D
Entries 46
Mean 0.01206
Std Dev 0.8852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

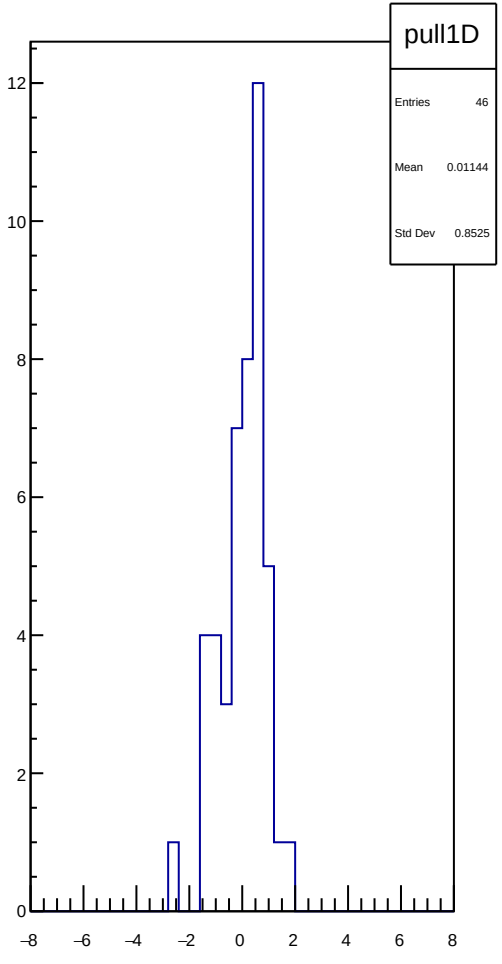

asym_sam_26_avg_rms vs run
χ² / ndf 458.6 / 45
p0 1962 ± 2.008
2100
2050
2000
1950
1900
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

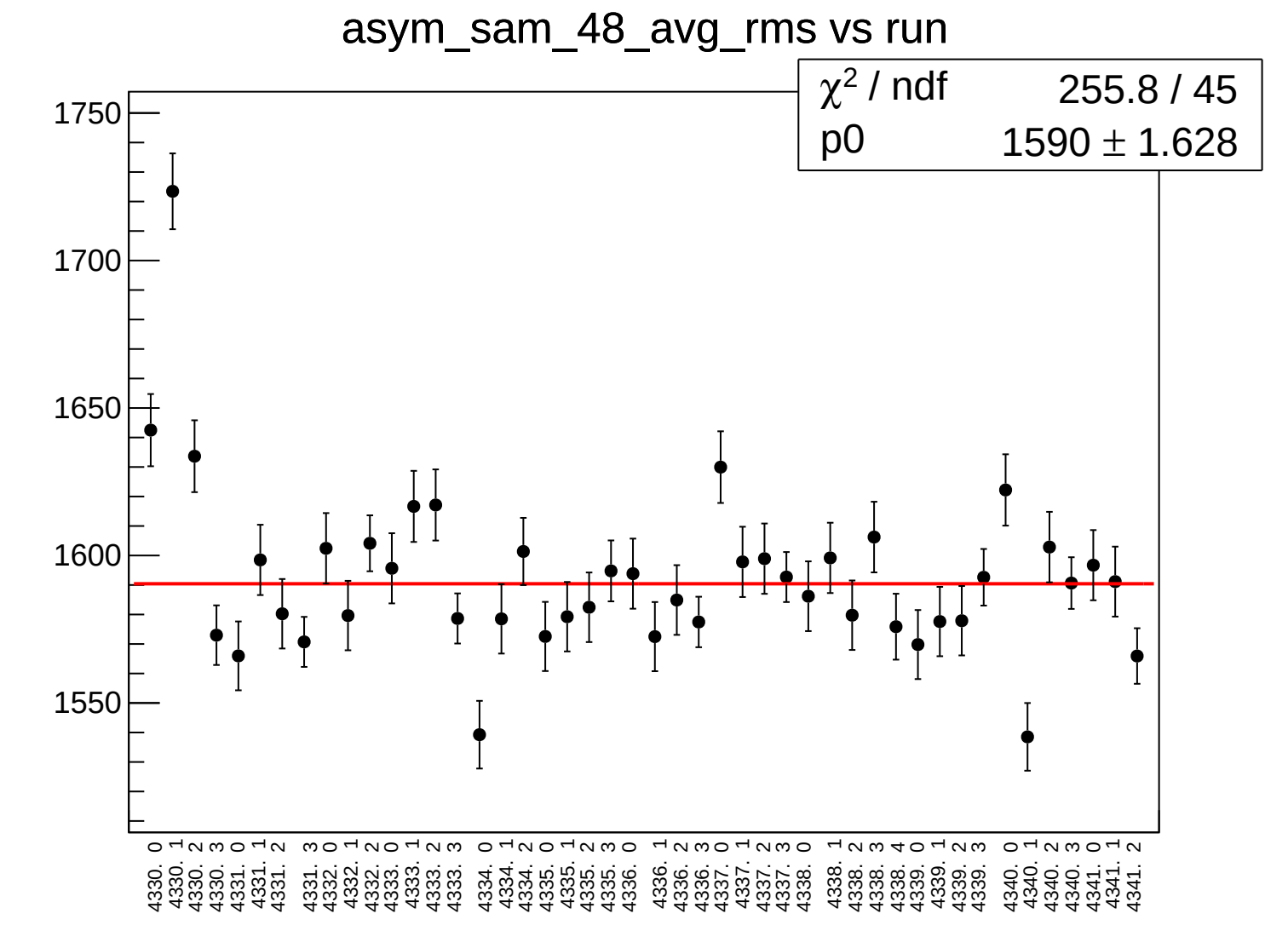

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 30.74 / 45
p0 −8059 ± 4833
pull
Entries 46
Mean 620.7
Std Dev 609.5

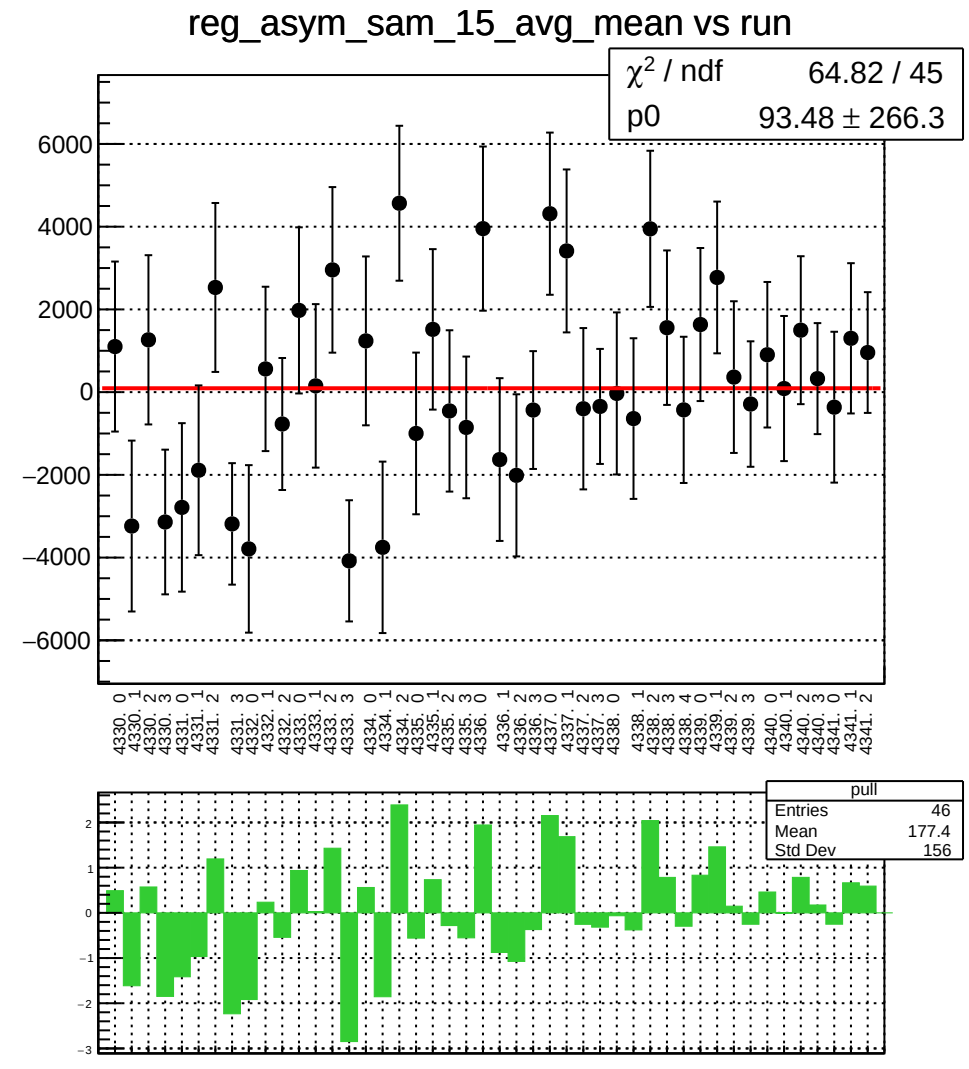

pull1D
Entries 46
Mean −0.001452
Std Dev 0.8175

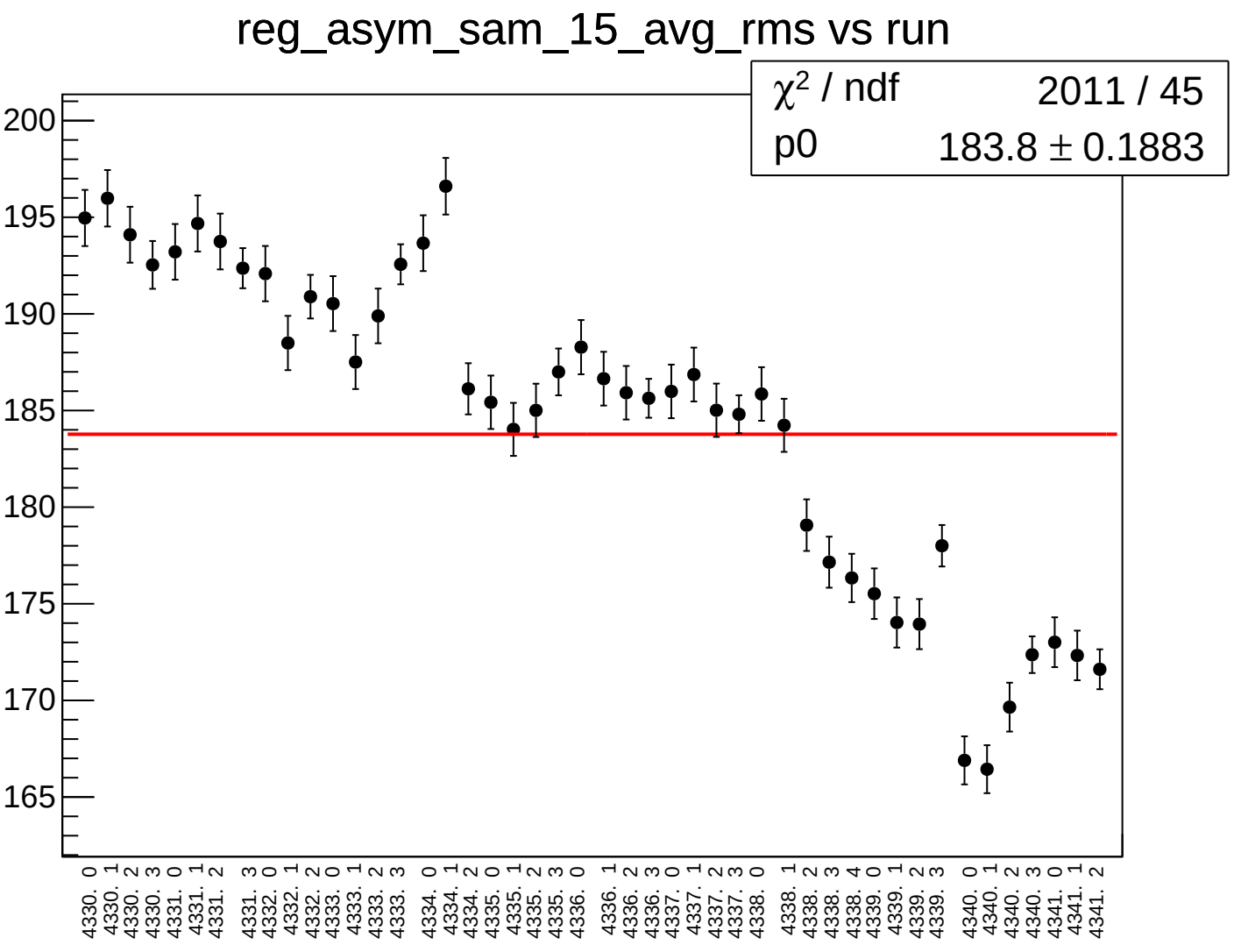

asym_sam_37_avg_rms vs run
χ² / ndf 877.5 / 45
p0 3337 ± 3.417
3700
3600
3500
3400
3300
3200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

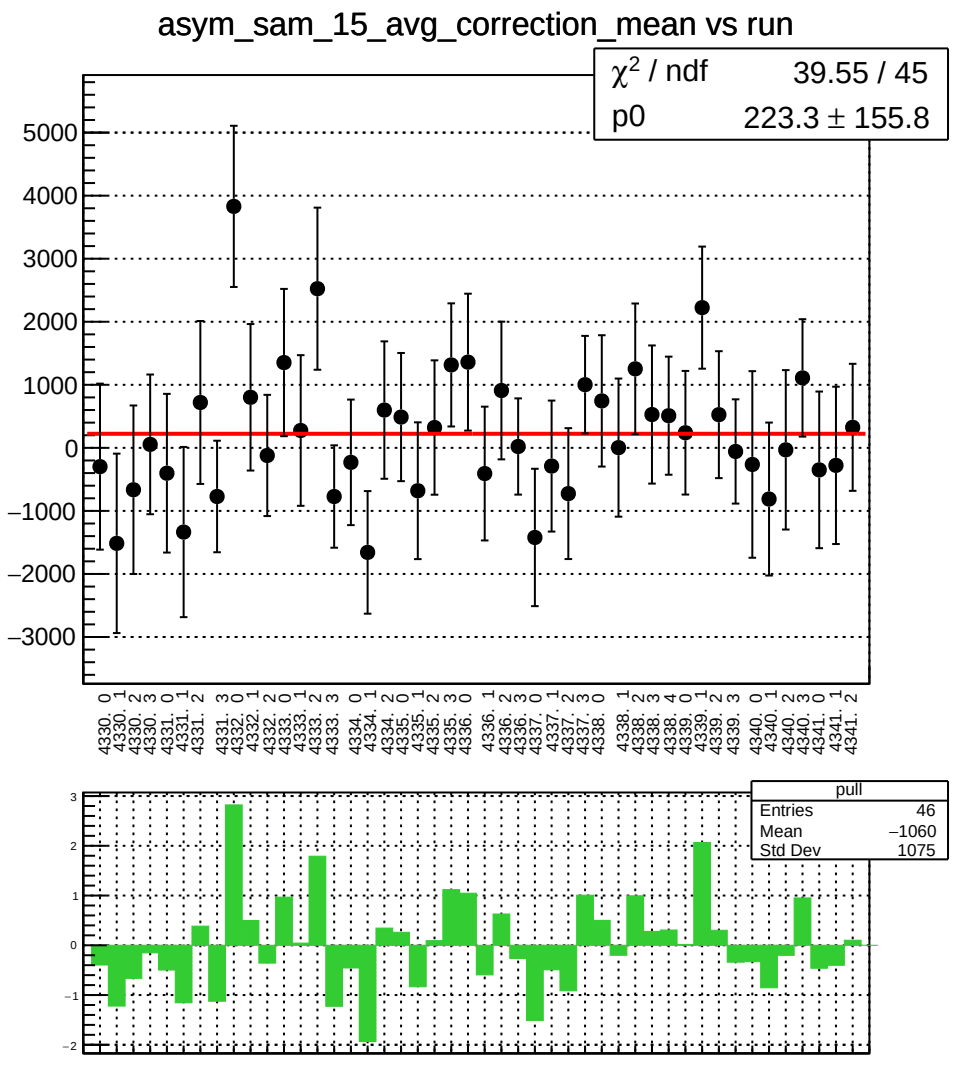

asym_sam_48_avg_mean vs run
χ² / ndf 33.44 / 45
p0 −3784 ± 2302
40000
20000
0
−20000
−40000
−60000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 24.92
Std Dev 34.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

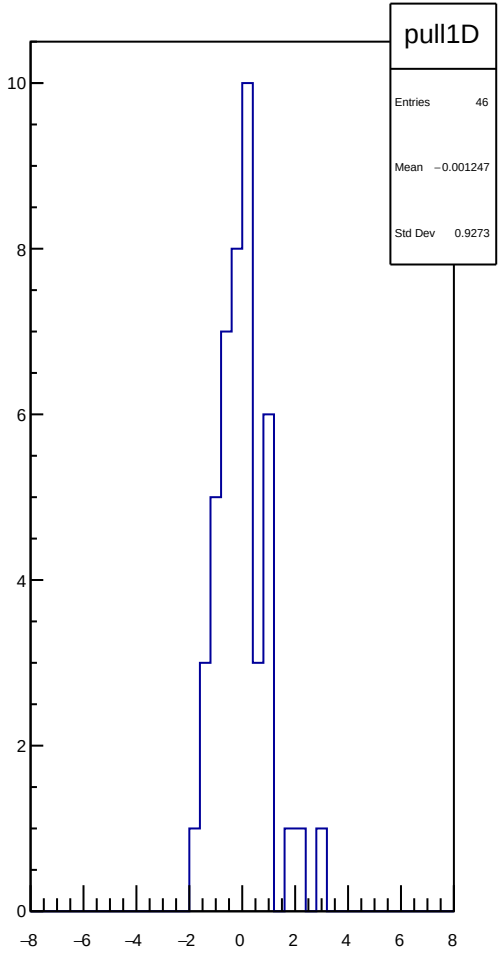

pull1D
Entries 46
Mean 0.01144
Std Dev 0.8525
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

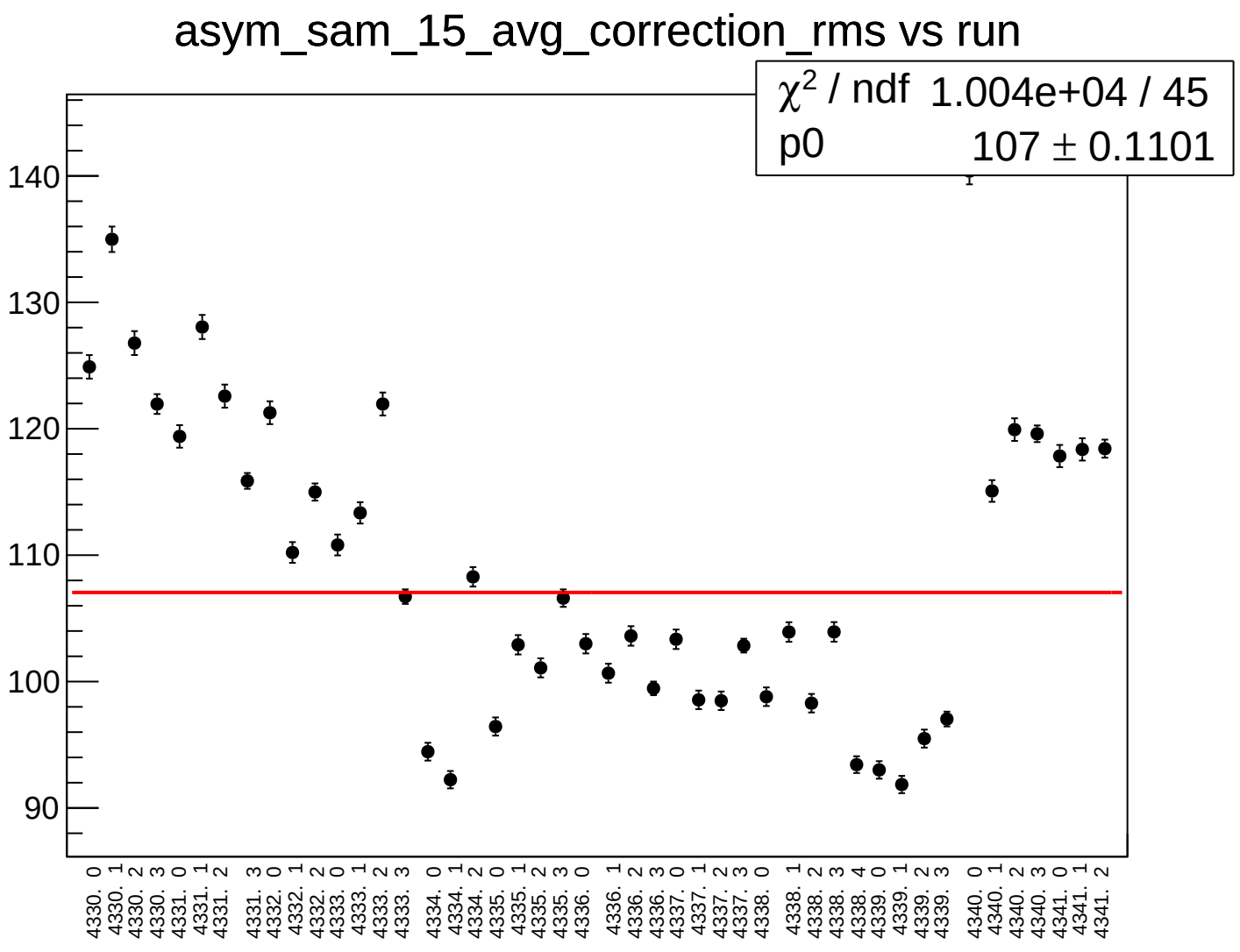

asym_sam_48_avg_rms vs run
χ² / ndf 255.8 / 45
p0 1590 ± 1.628
1750
1700
1650
1600
1550
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

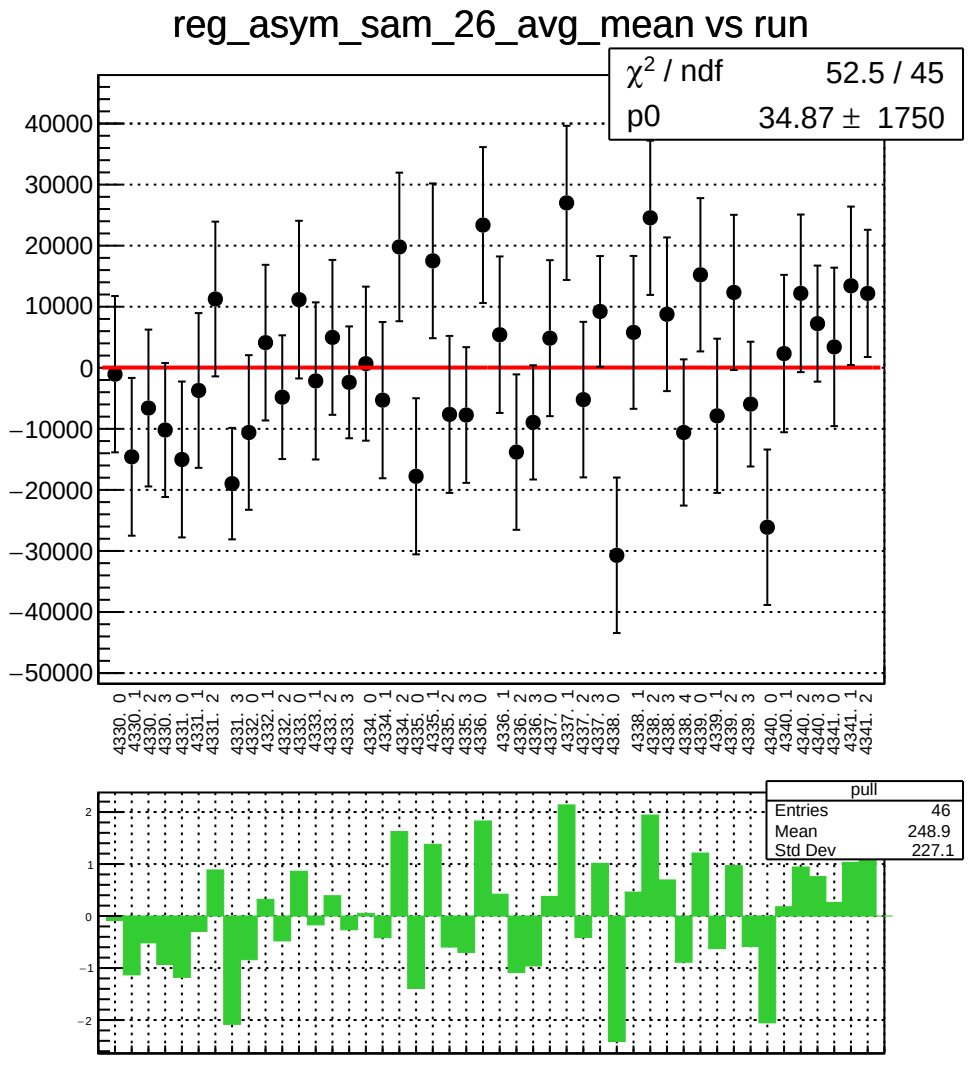

reg_asym_sam_15_avg_mean vs run
χ² / ndf 64.82 / 45
p0 93.48 ± 266.3
6000
4000
2000
0
−2000
−4000
−6000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 177.4
Std Dev 156
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.03346
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

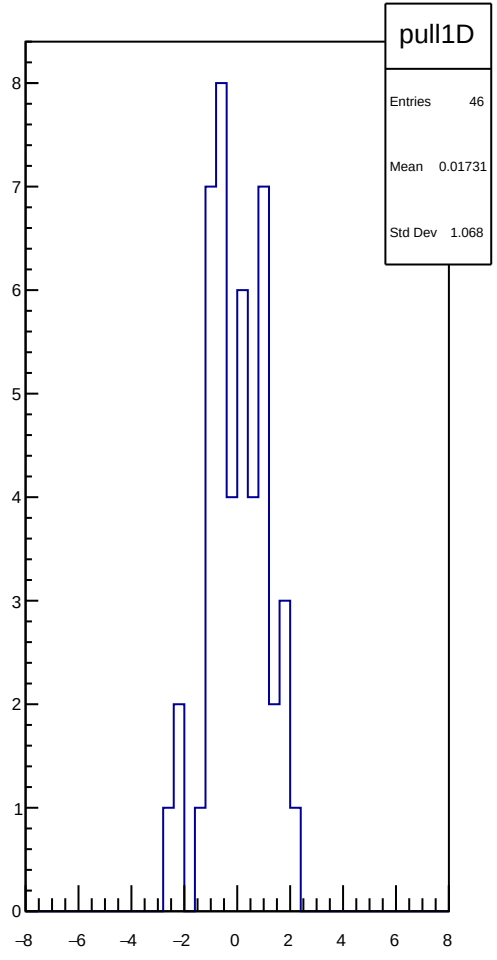

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2011 / 45
p0 183.8 ± 0.1883
200
195
190
185
180
175
170
165
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

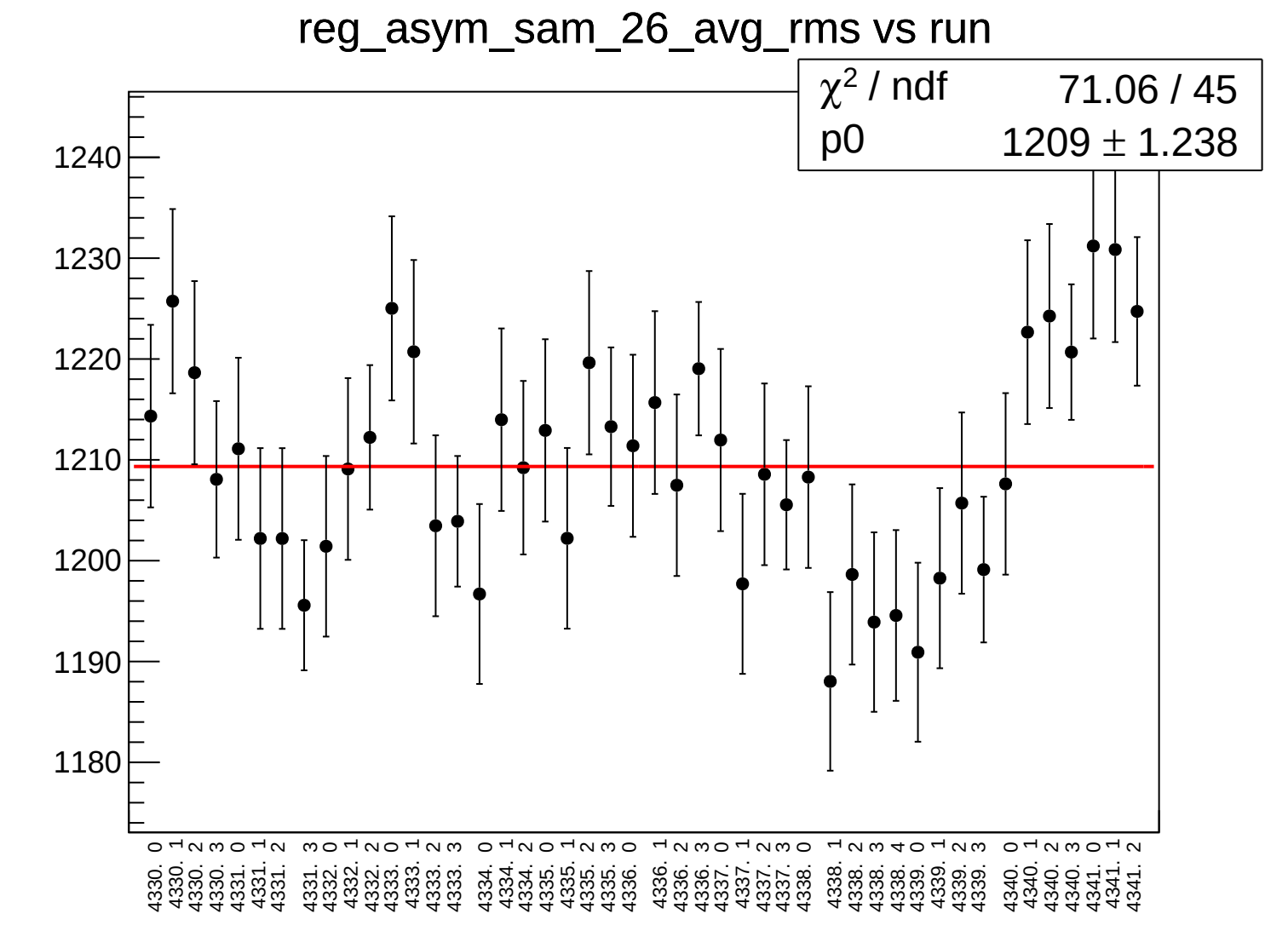

asym_sam_15_avg_correction_mean vs run
χ² / ndf 39.55 / 45
p0 223.3 ± 155.8
pull
Entries 46
Mean −1060
Std Dev 1075

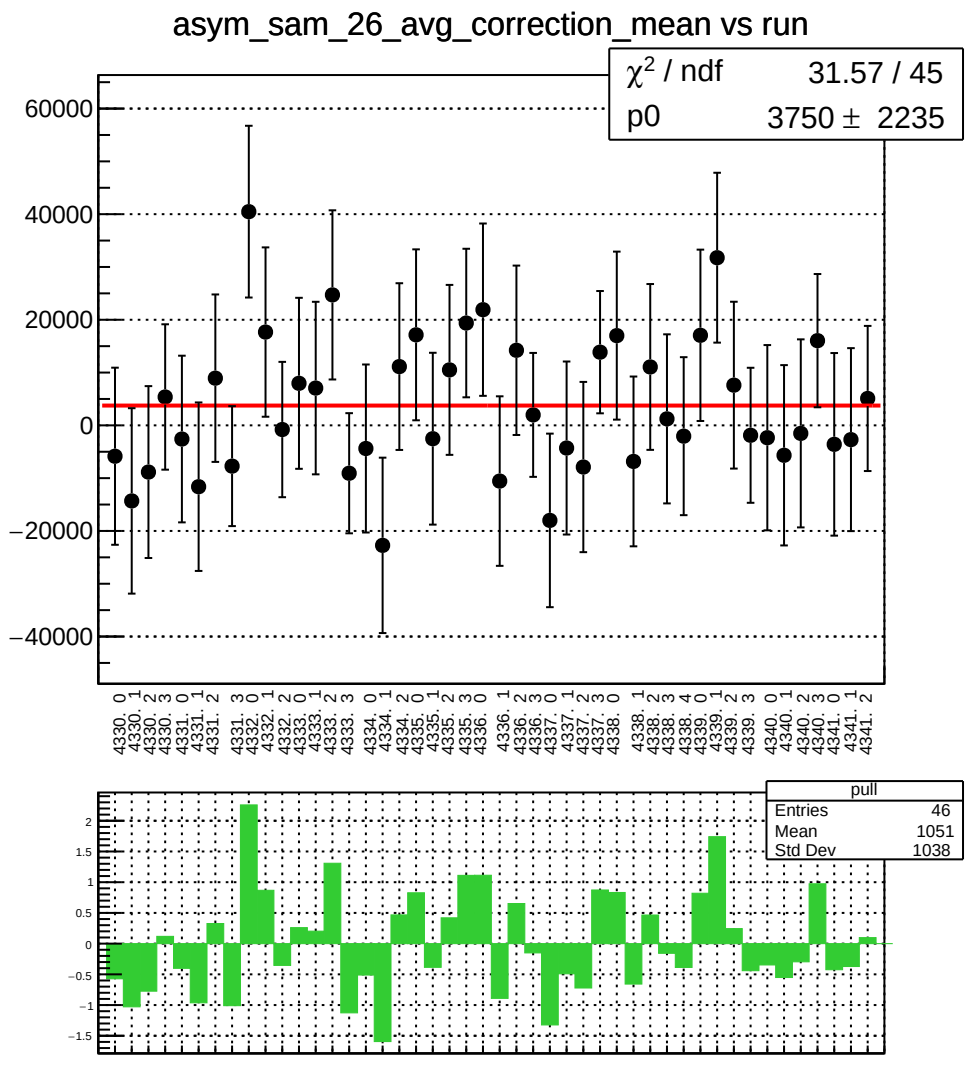

pull1D
Entries 46
Mean −0.001247
Std Dev 0.9273

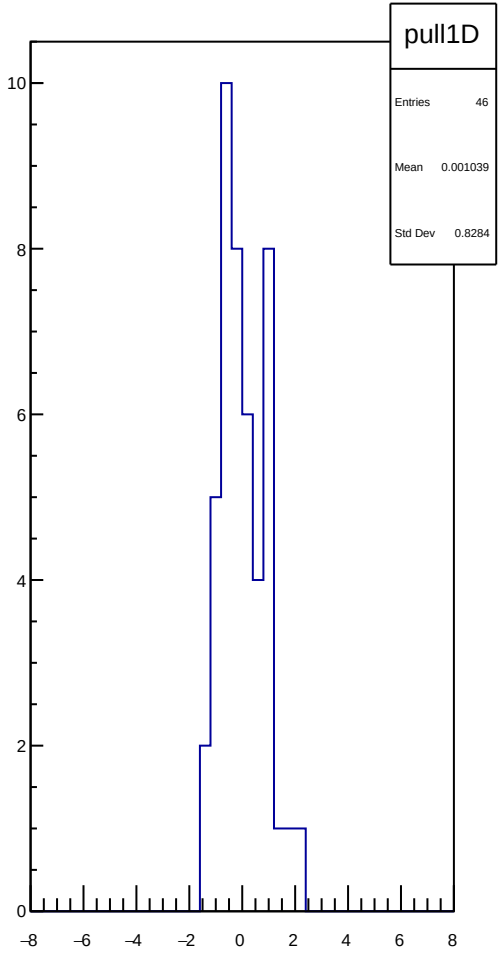

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.004e+04 / 45
p0 107 ± 0.1101
140
130
120
110
100
90
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

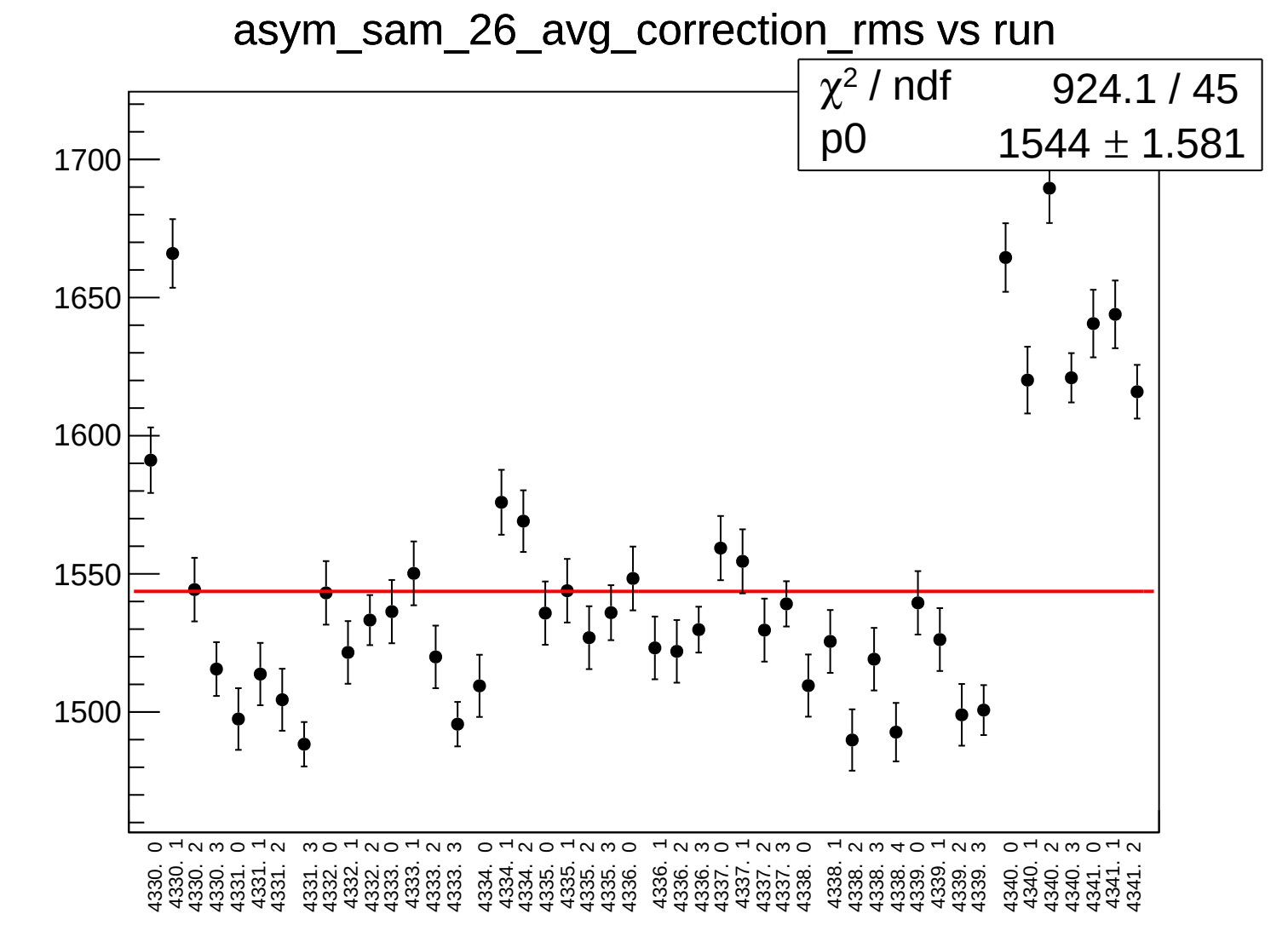

reg_asym_sam_26_avg_mean vs run
χ² / ndf 52.5 / 45
p0 34.87 ± 1750
pull
Entries 46
Mean 248.9
Std Dev 227.1

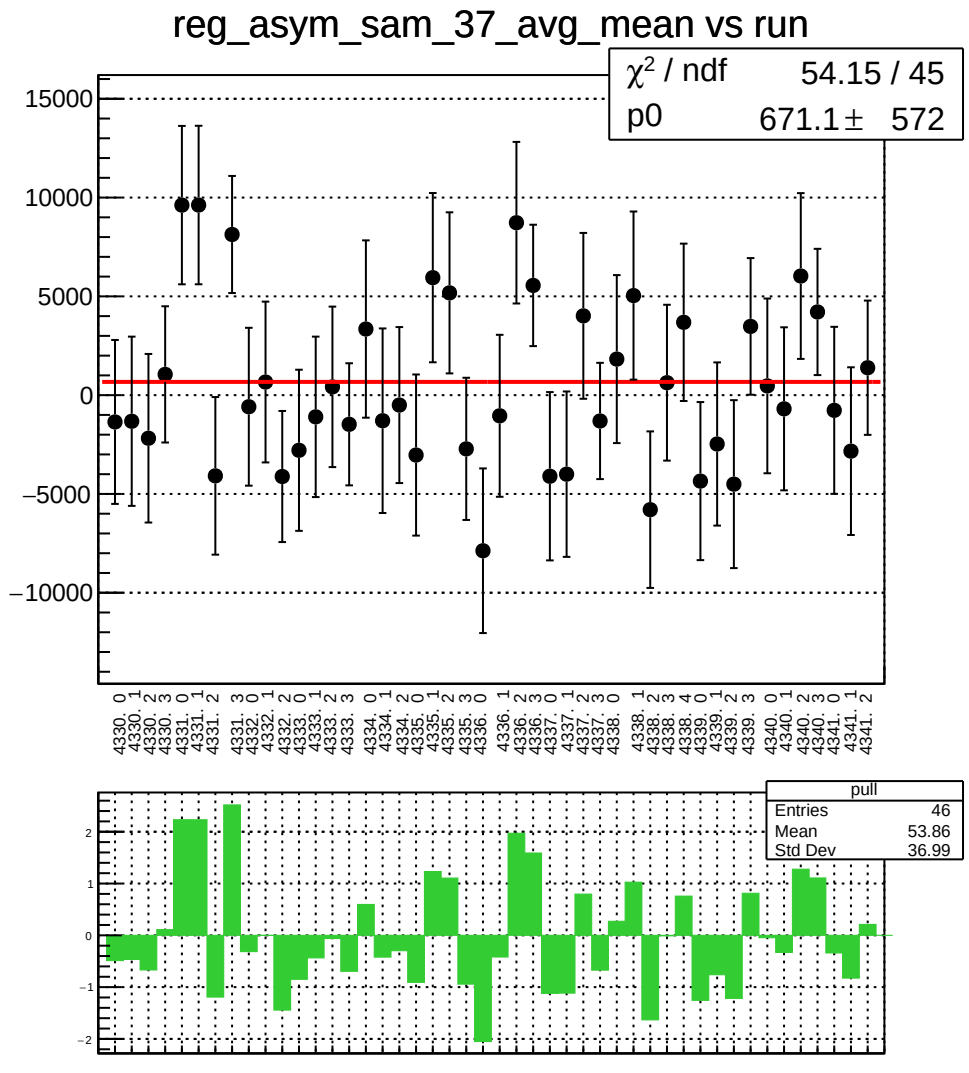

pull1D
Entries 46
Mean 0.01731
Std Dev 1.068

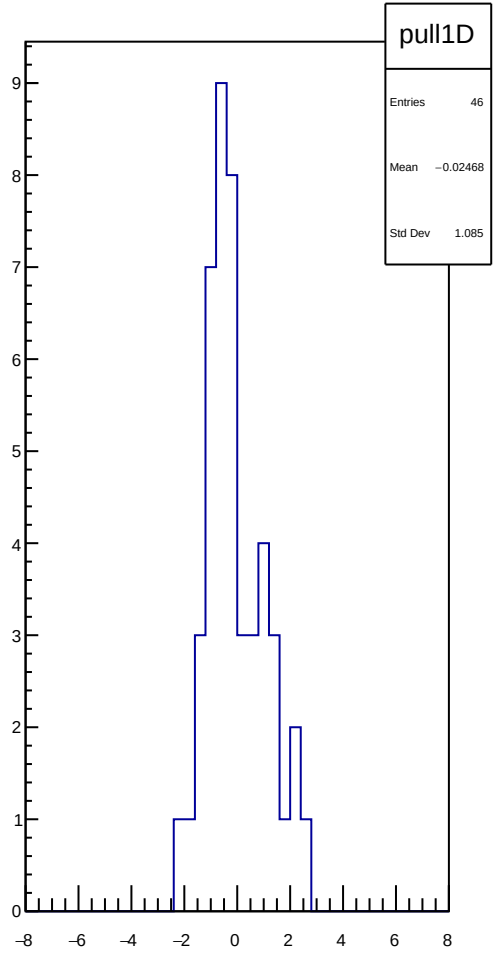

reg_asym_sam_26_avg_rms vs run
χ² / ndf 71.06 / 45
p0 1209 ± 1.238
1240
1230
1220
1210
1200
1190
1180
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

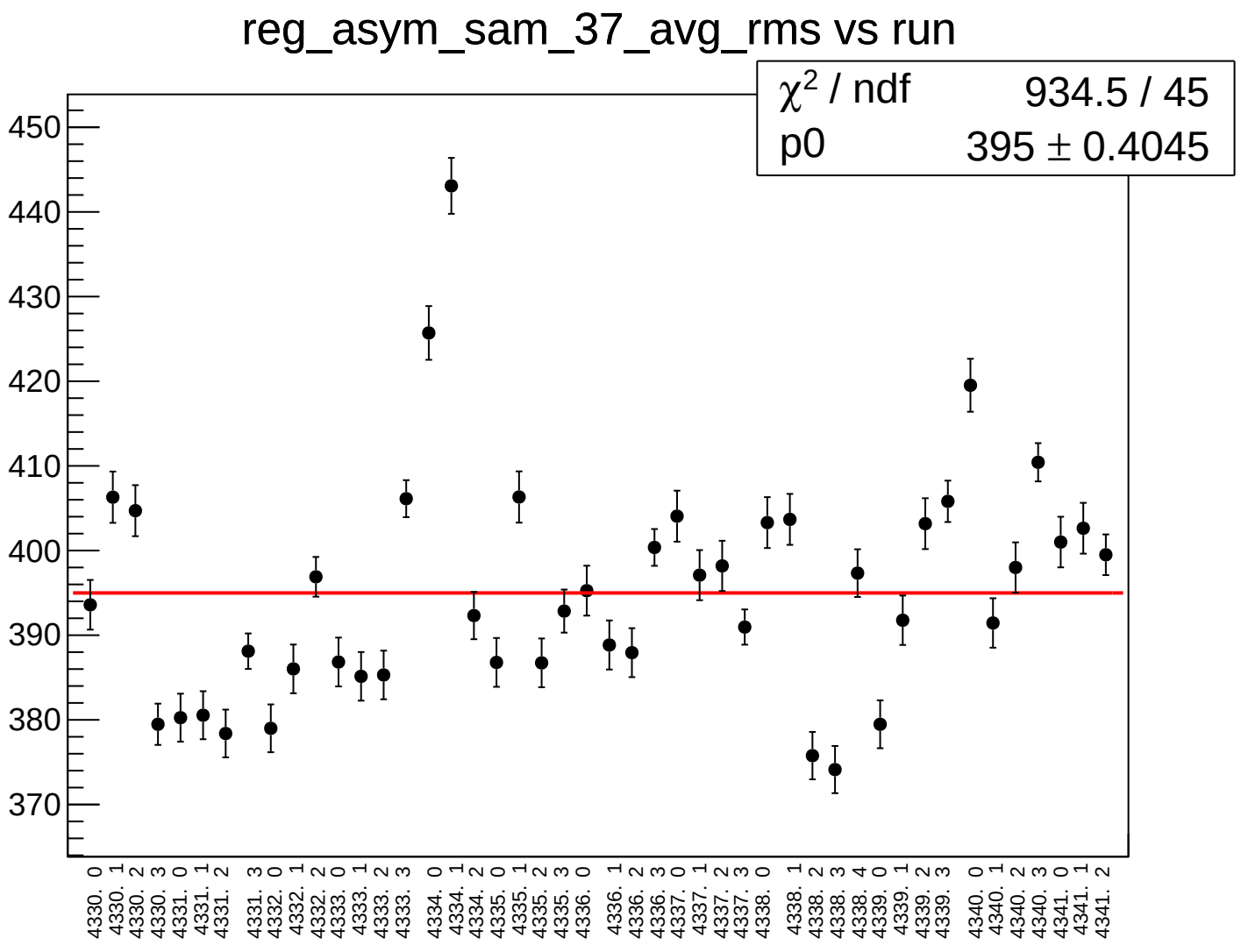

asym_sam_26_avg_correction_mean vs run
χ² / ndf 31.57 / 45
p0 3750 ± 2235
60000
40000
20000
0
−20000
−40000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 1051
Std Dev 1038
2
1.5
1
0.5
0
−0.5
−1
−1.5

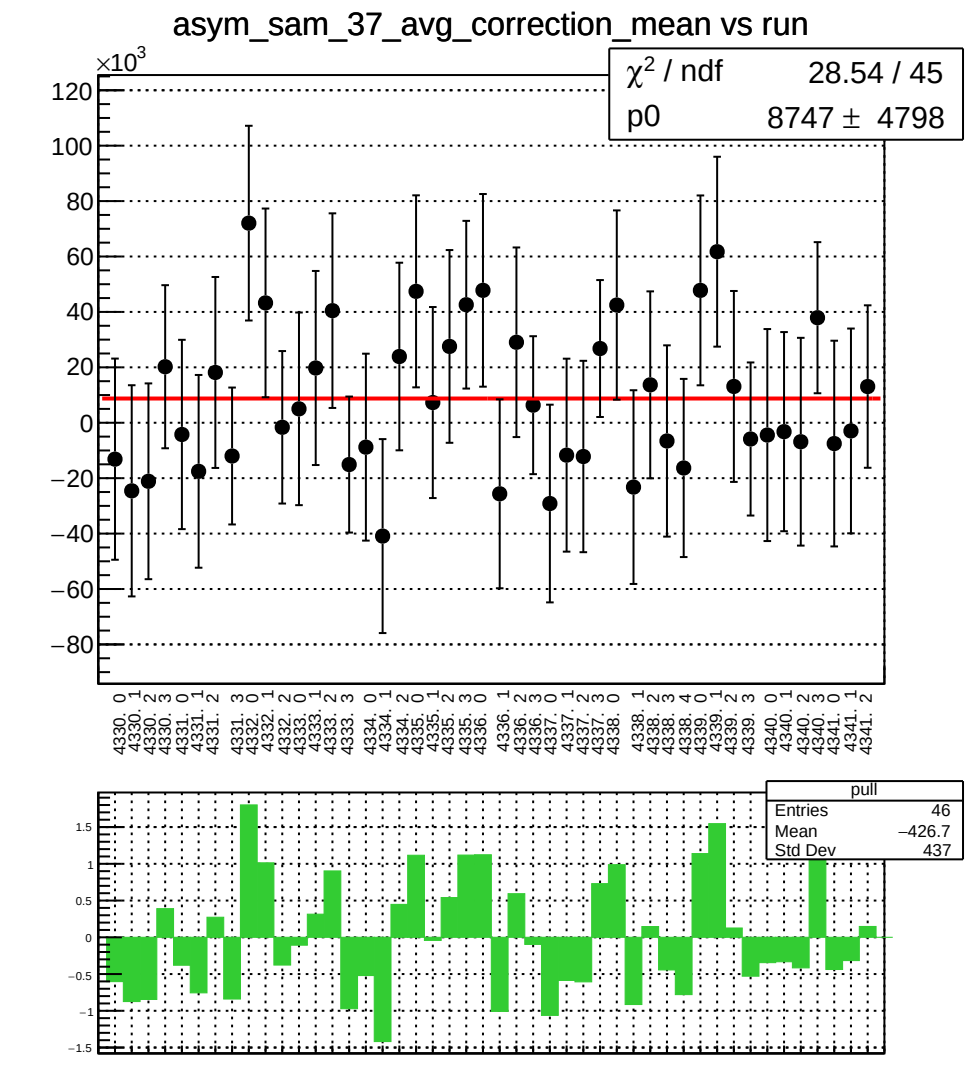

pull1D
Entries 46
Mean 0.001039
Std Dev 0.8284
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

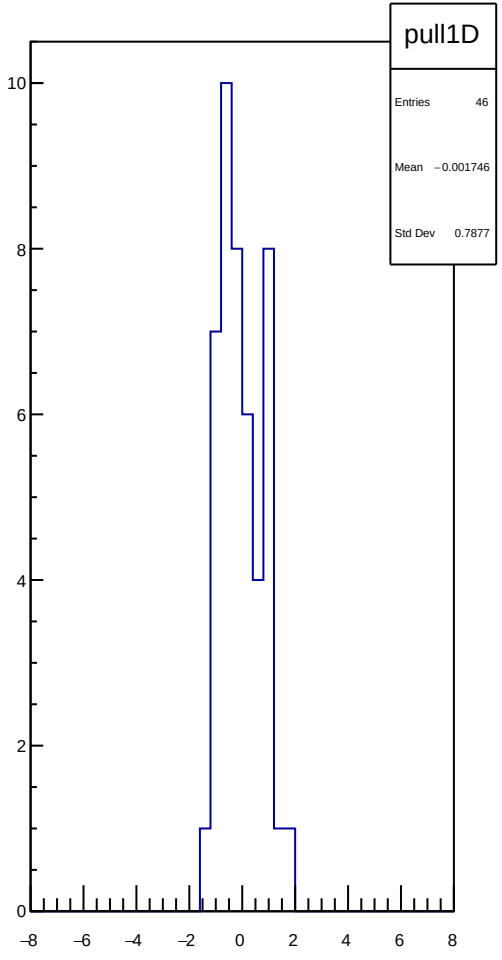

asym_sam_26_avg_correction_rms vs run
χ² / ndf 924.1 / 45
p0 1544 ± 1.581
1700
1650
1600
1550
1500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

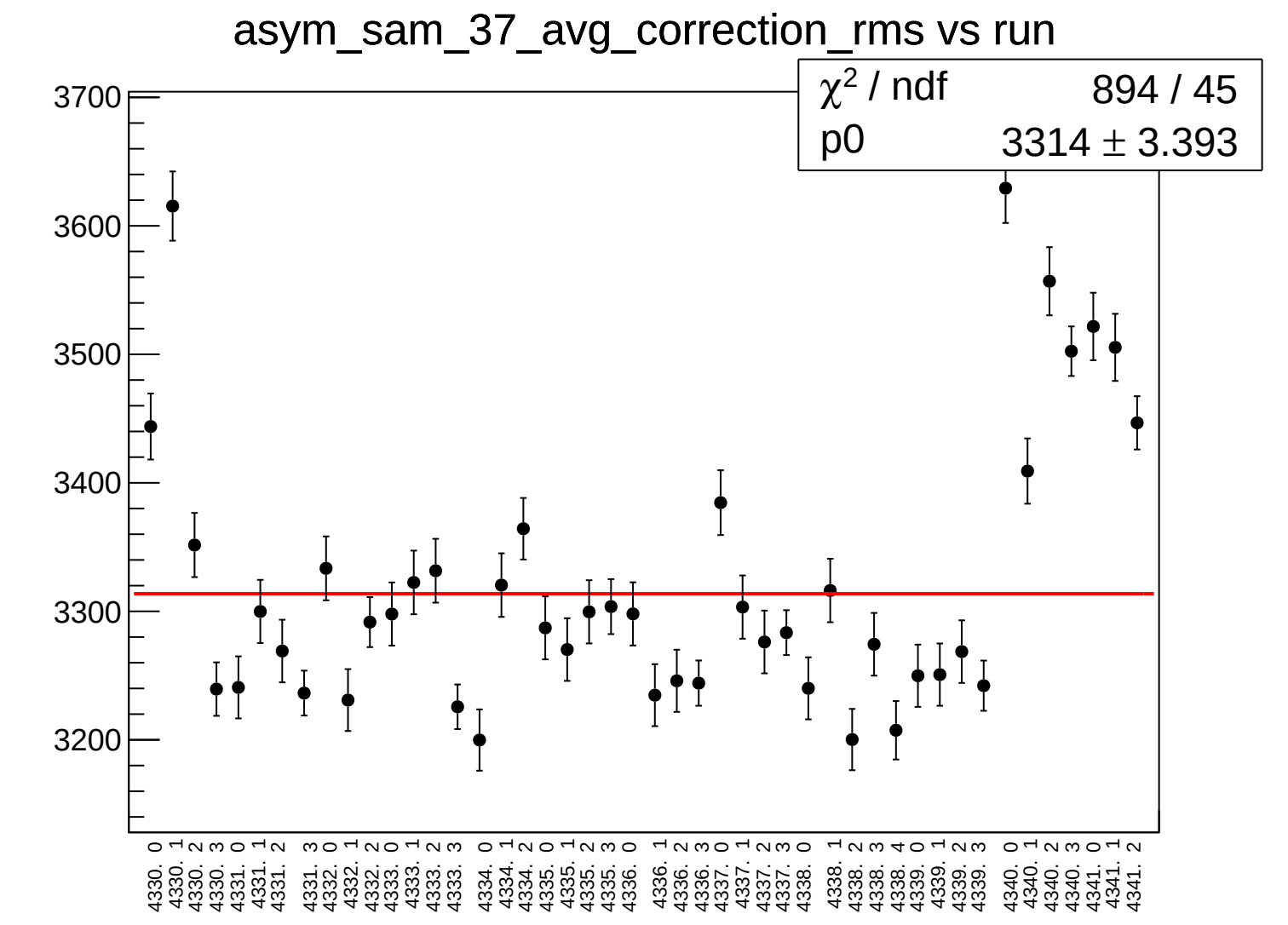

reg_asym_sam_37_avg_mean vs run
χ² / ndf 54.15 / 45
p0 671.1 ± 572
15000
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 53.86
Std Dev 36.99
2
1
0
−1
−2

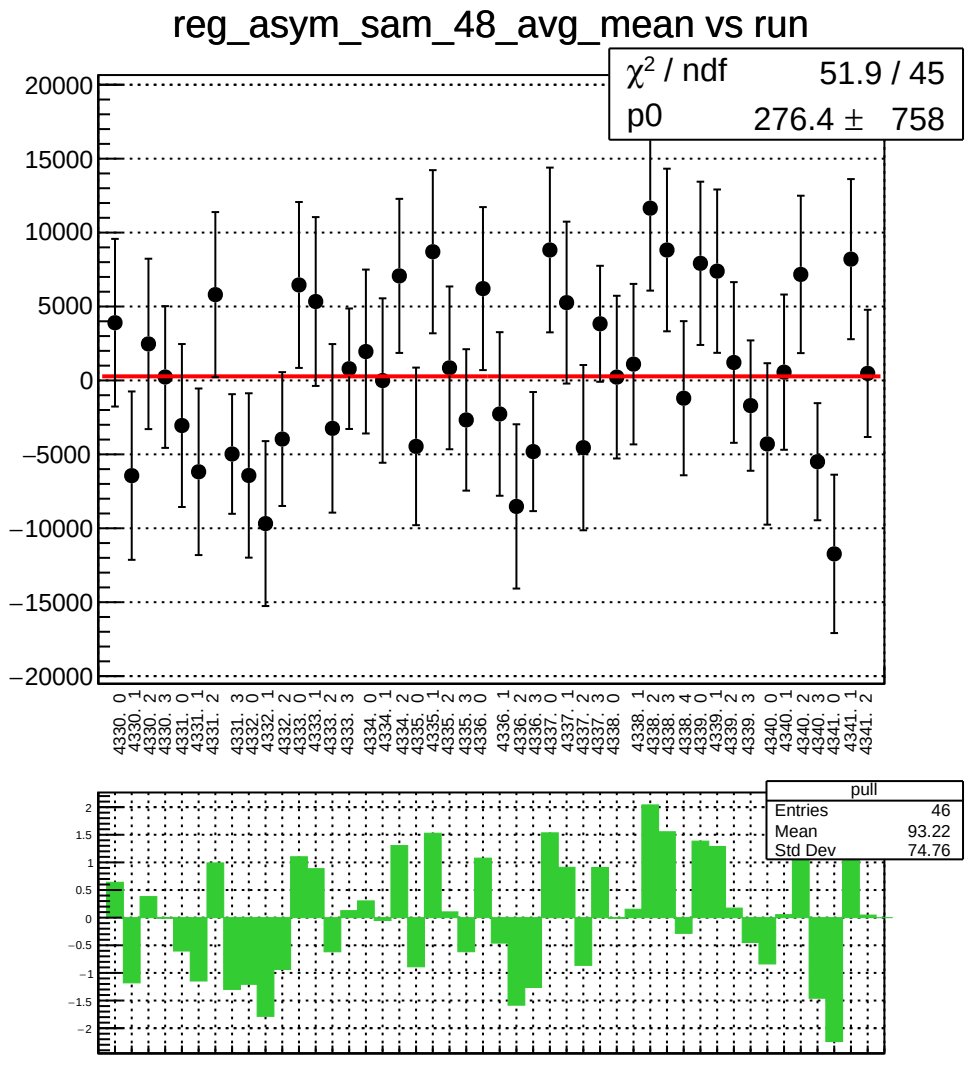

pull1D
Entries 46
Mean −0.02468
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

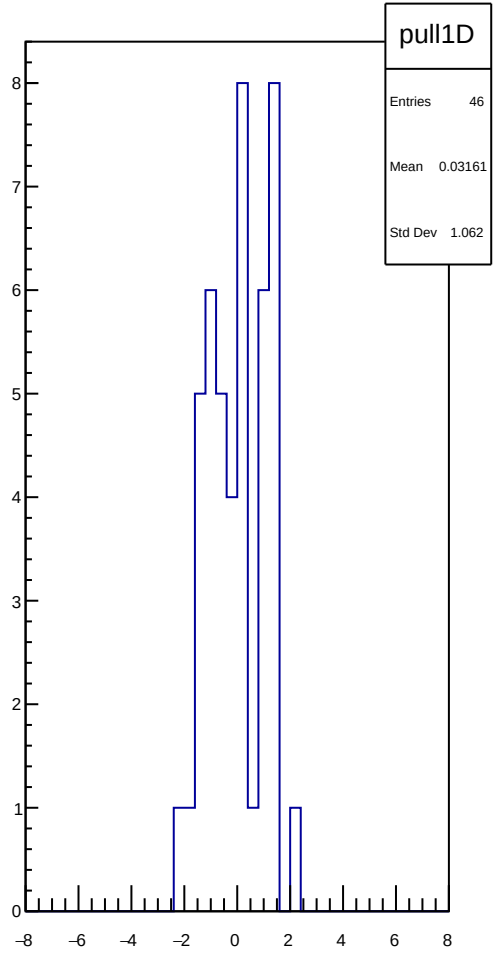

reg_asym_sam_37_avg_rms vs run
χ² / ndf 934.5 / 45
p0 395 ± 0.4045
450
440
430
420
410
400
390
380
370
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

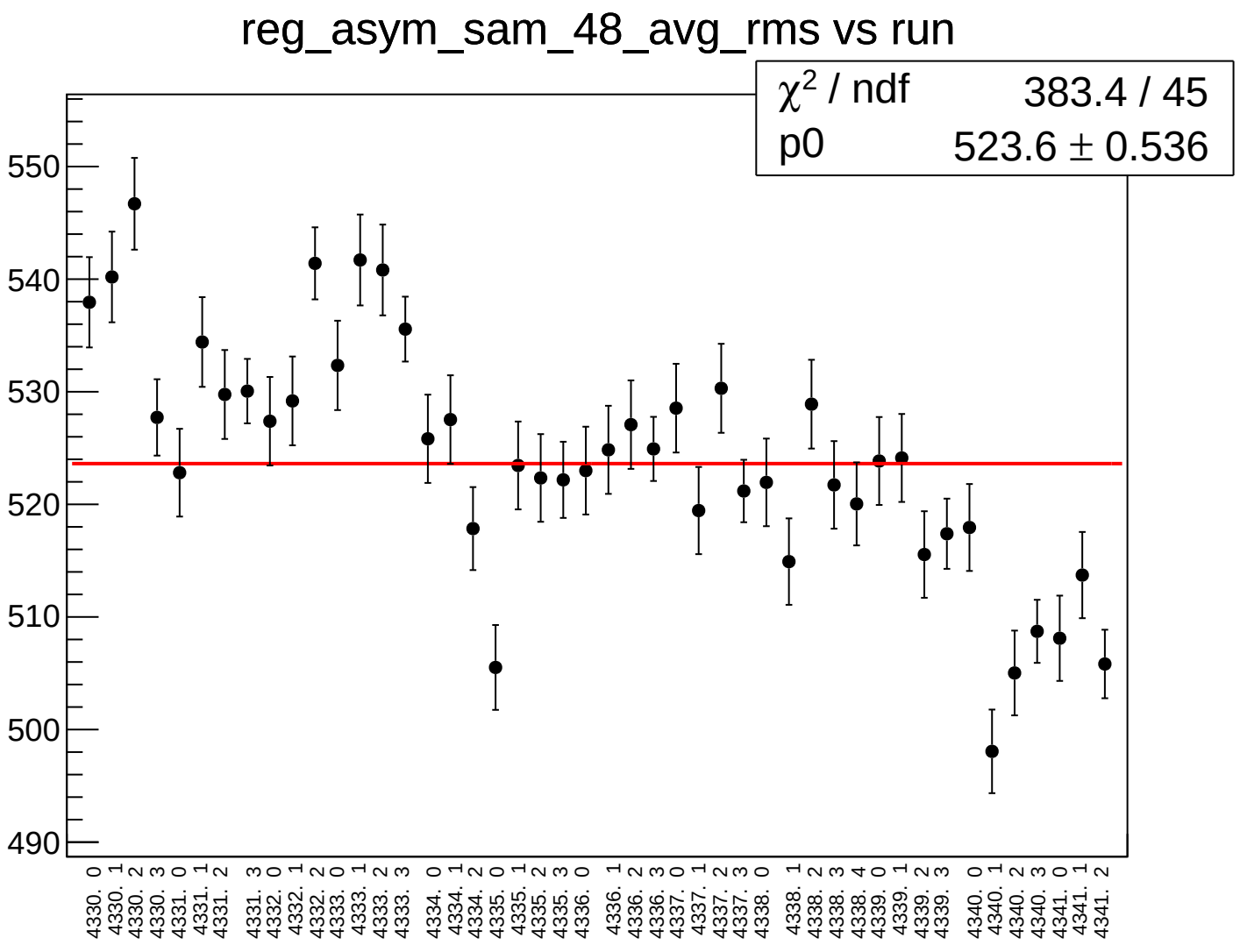

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 28.54 / 45
p0 8747 ± 4798
pull
Entries 46
Mean −426.7
Std Dev 437

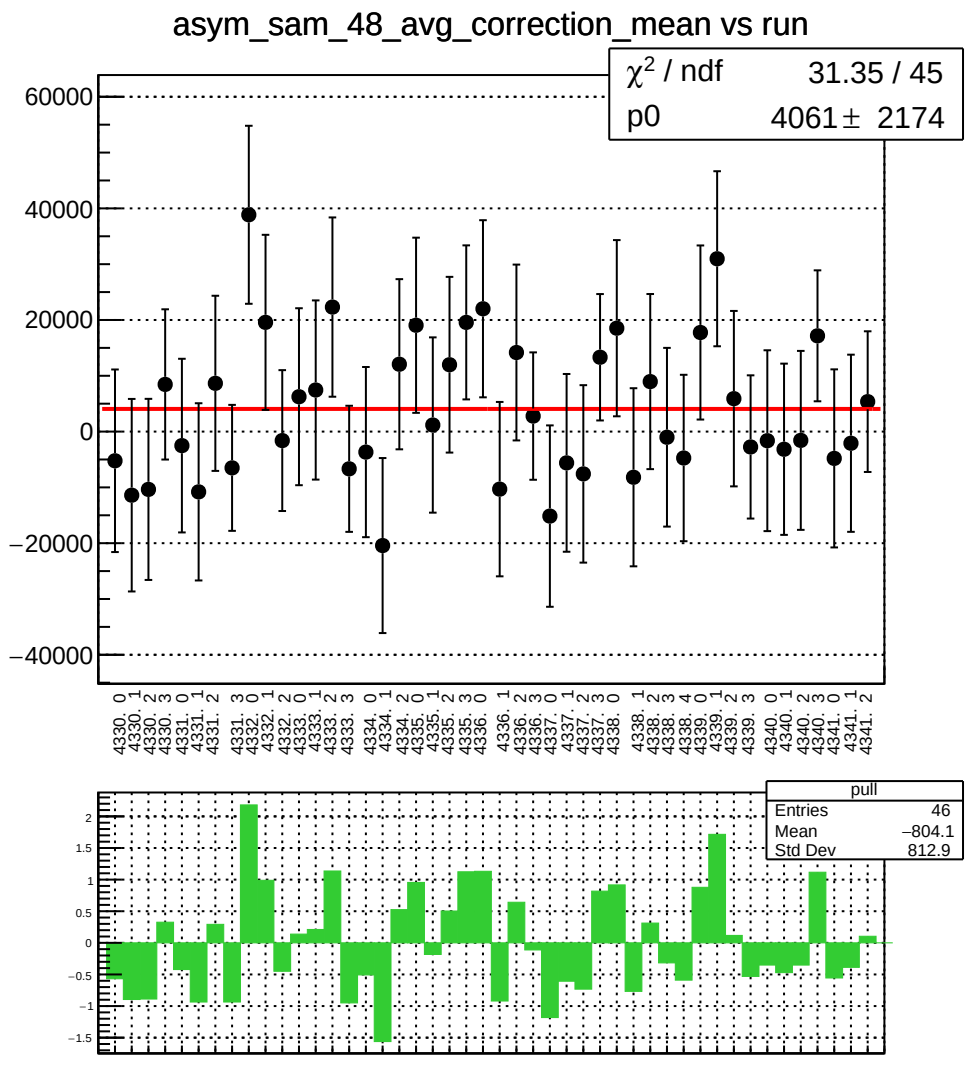

pull1D
Entries 46
Mean −0.001746
Std Dev 0.7877

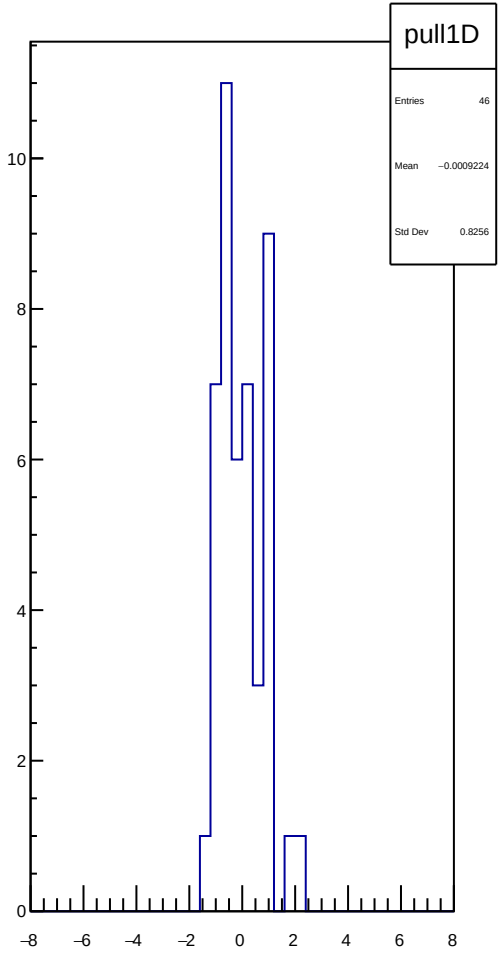

asym_sam_37_avg_correction_rms vs run
χ² / ndf 894 / 45
p0 3314 ± 3.393
3700
3600
3500
3400
3300
3200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

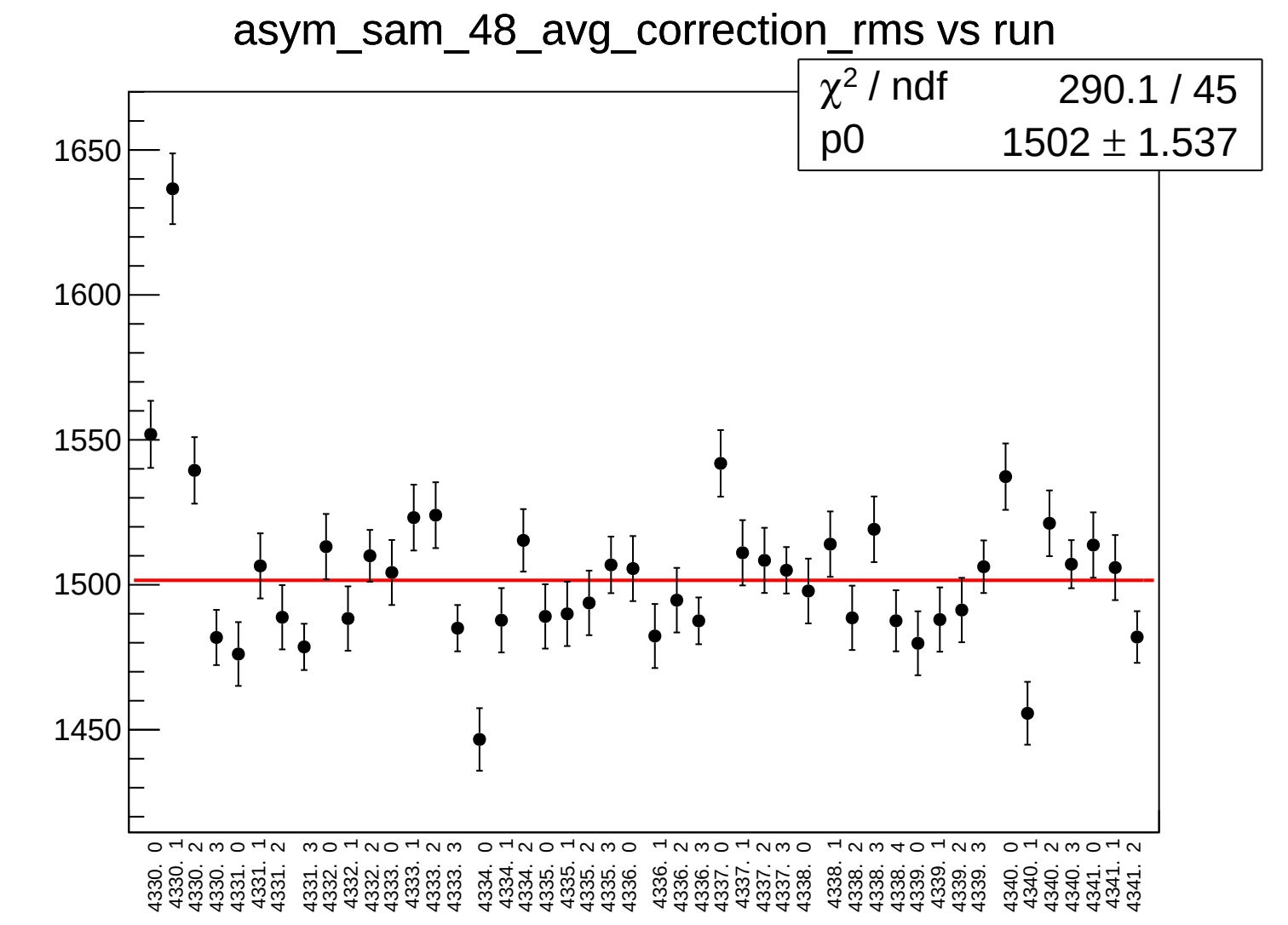

reg_asym_sam_48_avg_mean vs run
χ² / ndf 51.9 / 45
p0 276.4 ± 758
pull
Entries 46
Mean 93.22
Std Dev 74.76

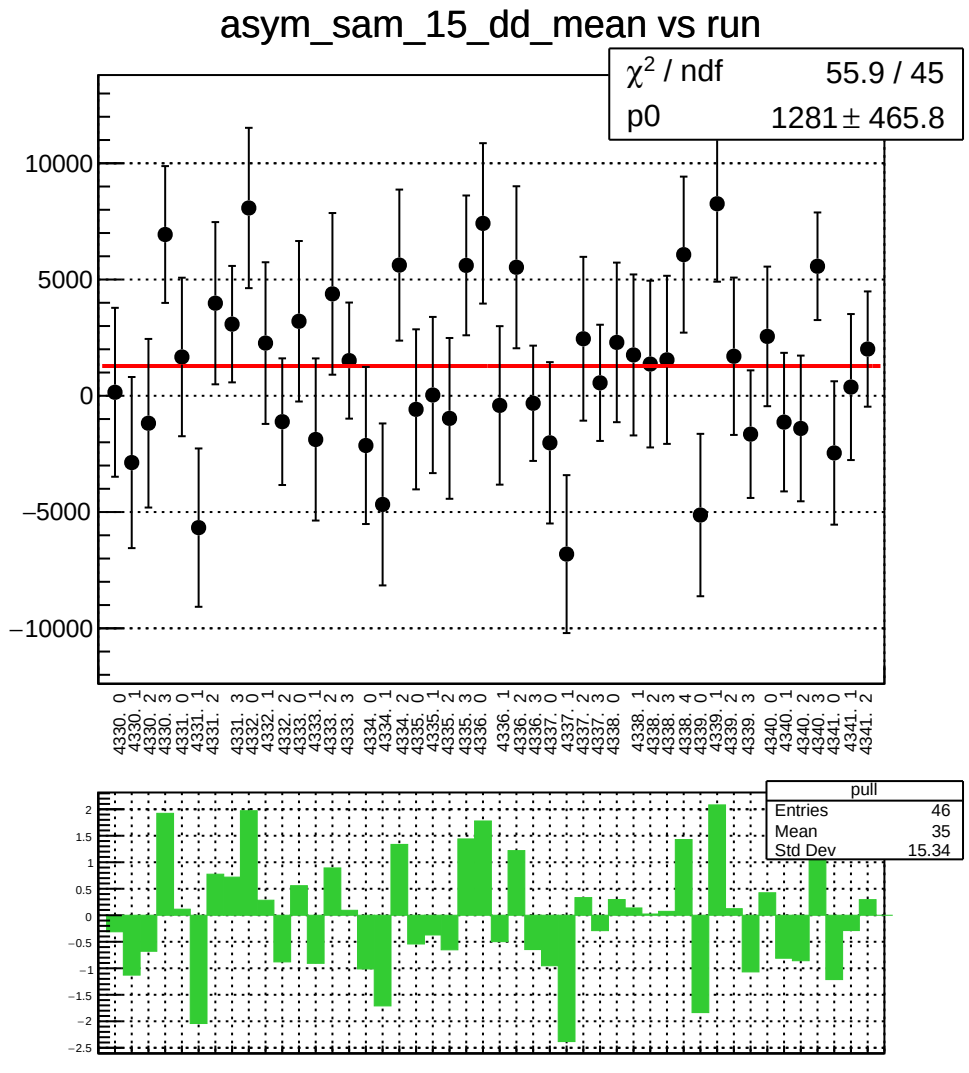

pull1D
Entries 46
Mean 0.03161
Std Dev 1.062

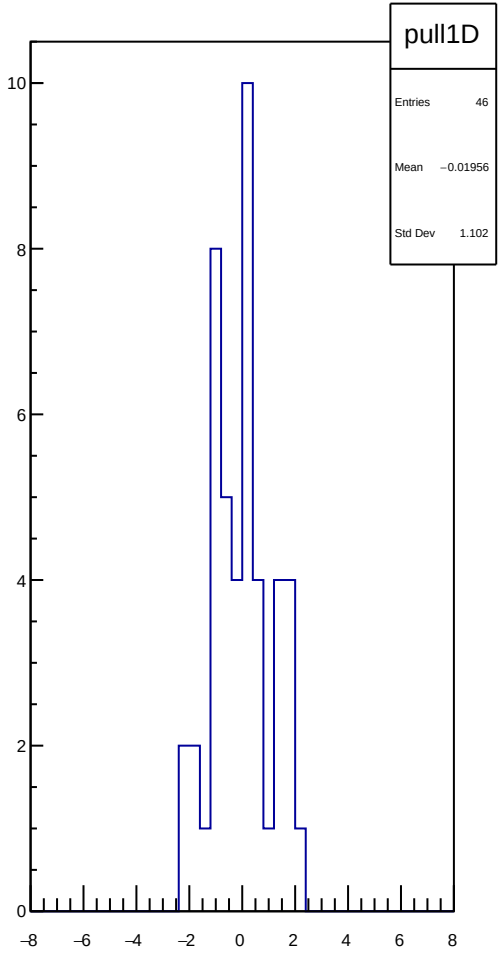

reg_asym_sam_48_avg_rms vs run
χ² / ndf 383.4 / 45
p0 523.6 ± 0.536
550
540
530
520
510
500
490
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

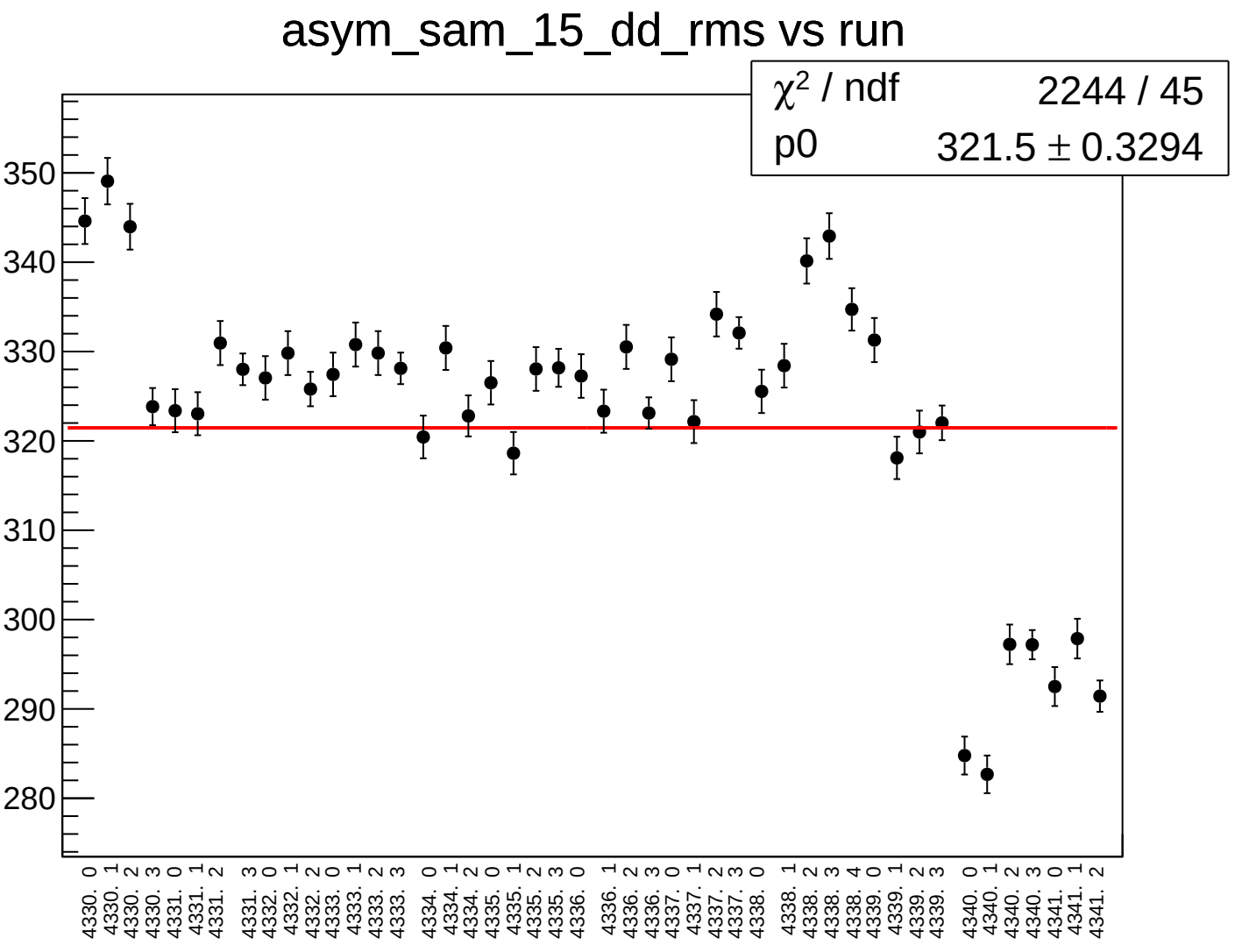

asym_sam_48_avg_correction_mean vs run
χ² / ndf 31.35 / 45
p0 4061 ± 2174
pull
Entries 46
Mean −804.1
Std Dev 812.9

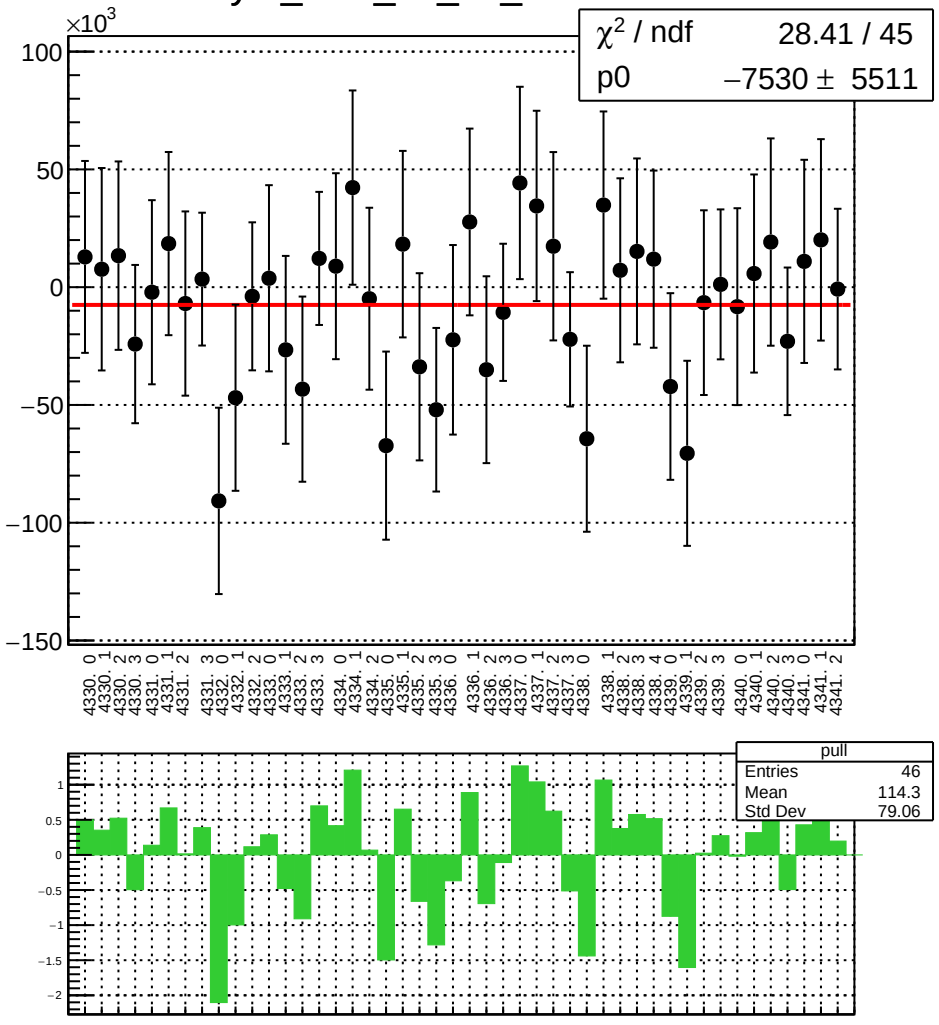

pull1D
Entries 46
Mean −0.0009224
Std Dev 0.8256

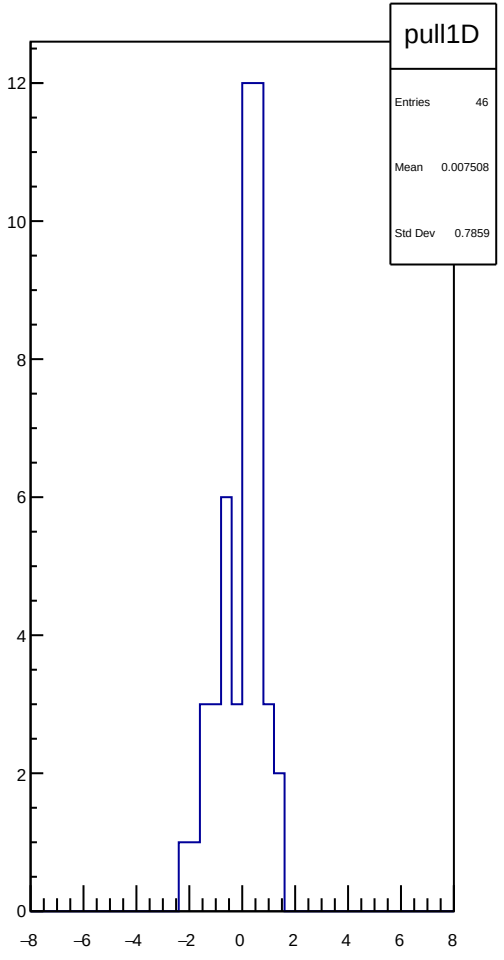

asym_sam_48_avg_correction_rms vs run
χ² / ndf 290.1 / 45
p0 1502 ± 1.537
1650
1600
1550
1500
1450
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

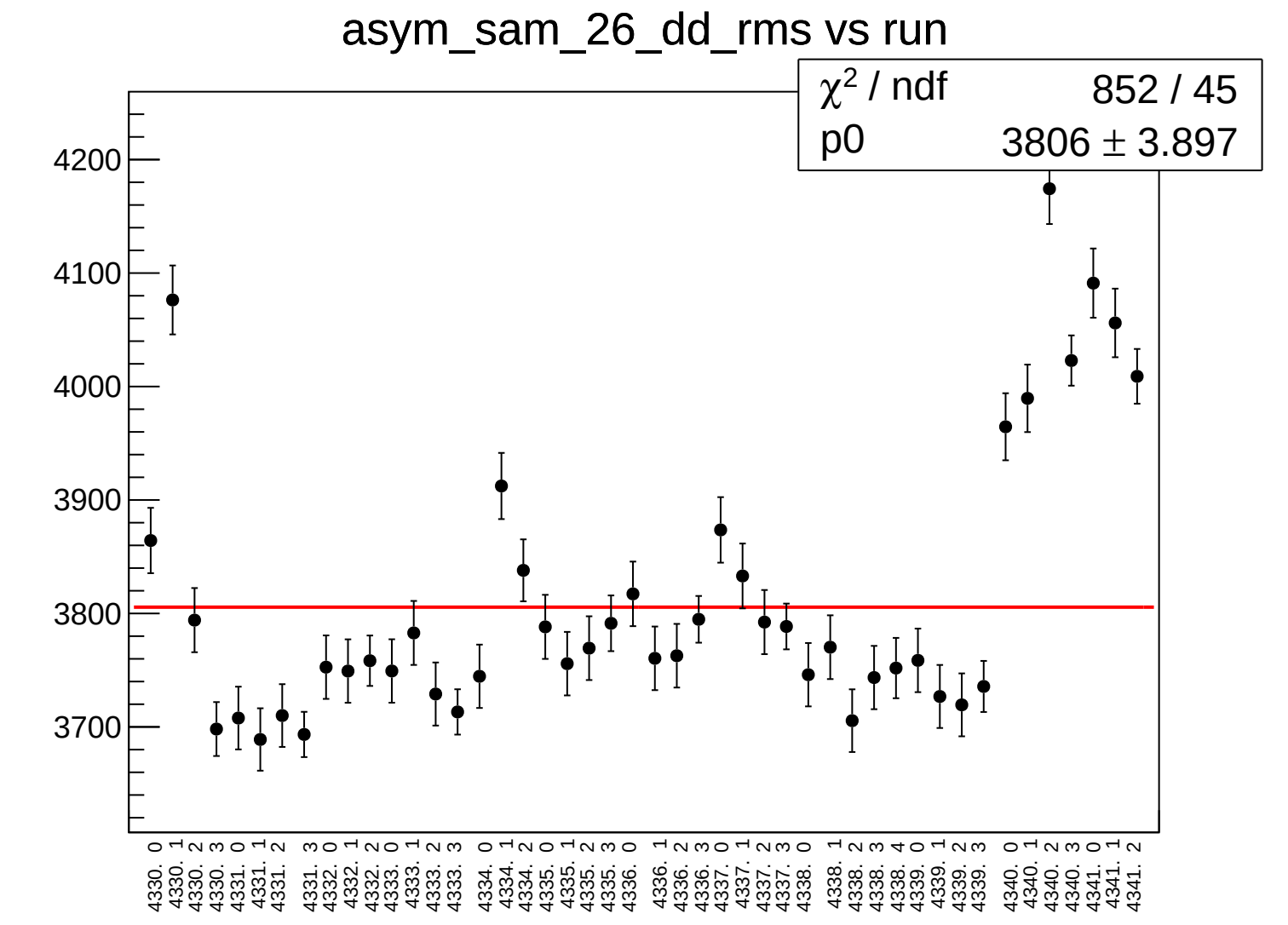

asym_sam_15_dd_mean vs run
χ² / ndf 55.9 / 45
p0 1281 ± 465.8
10000
5000
0
−5000
−10000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 35
Std Dev 15.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

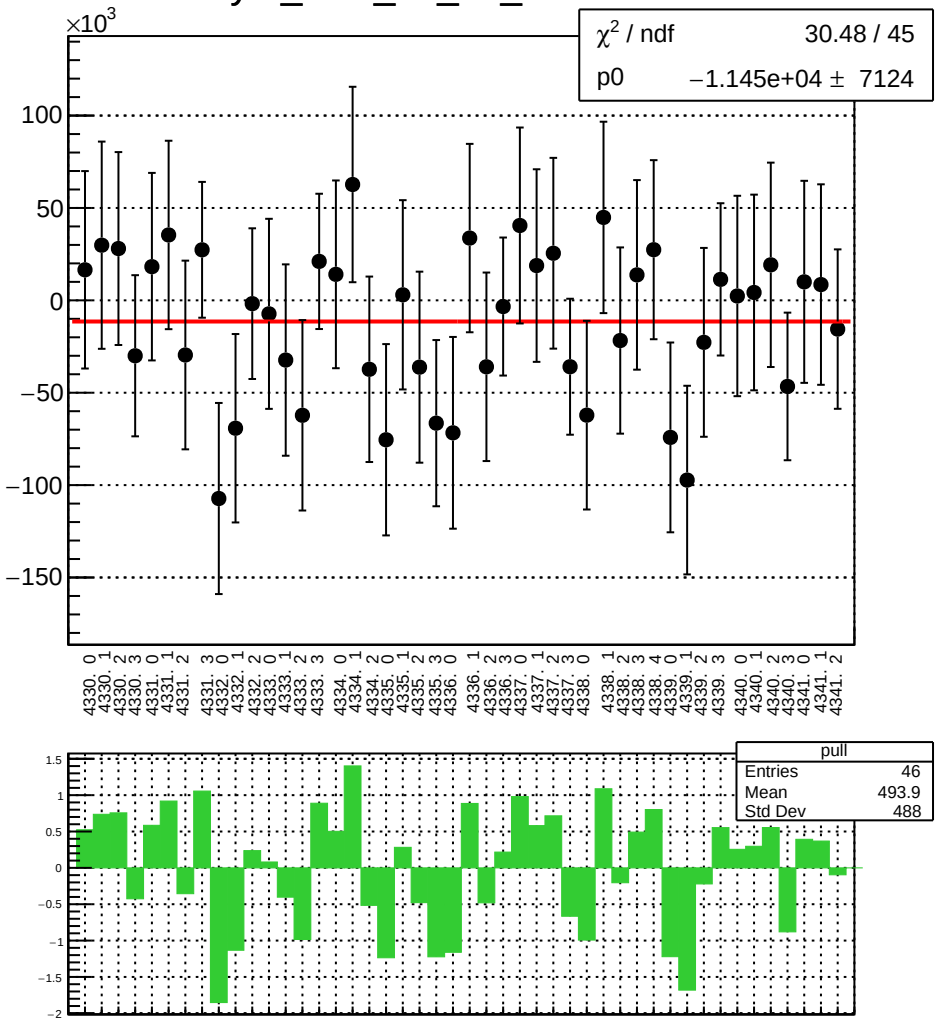

pull1D
Entries 46
Mean −0.01956
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

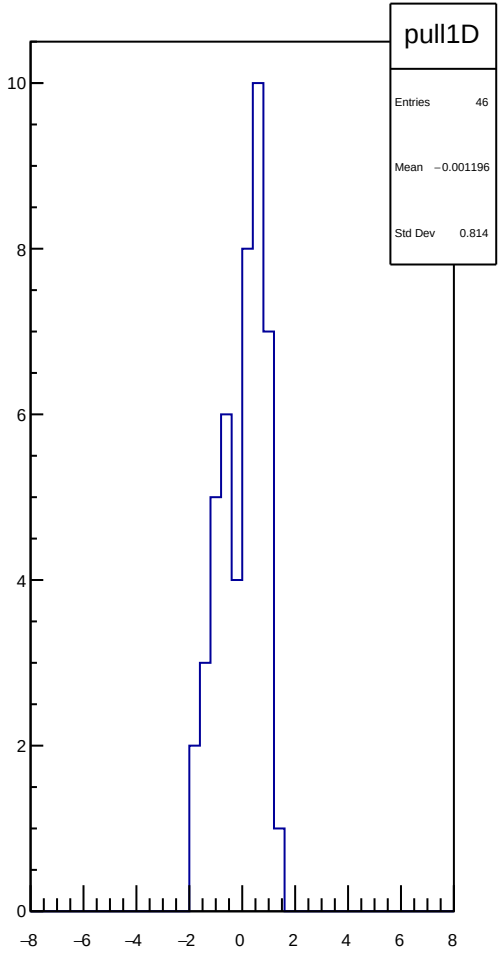

asym_sam_15_dd_rms vs run
χ² / ndf 2244 / 45
p0 321.5 ± 0.3294
350
340
330
320
310
300
290
280
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

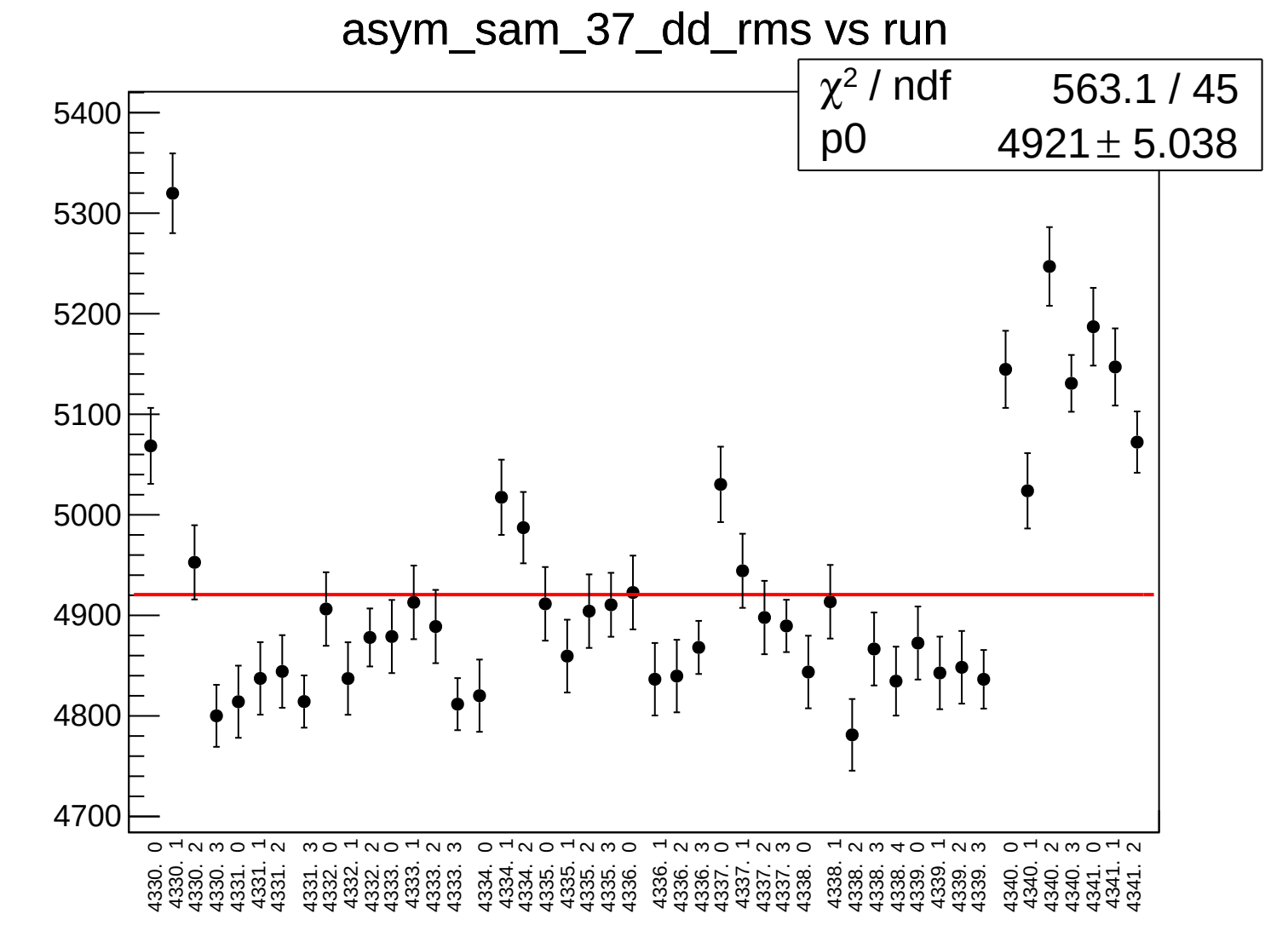

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 28.41 / 45
p0 −7530 ± 5511
pull
Entries 46
Mean 114.3
Std Dev 79.06


pull1D
Entries 46
Mean 0.007508
Std Dev 0.7859


asym_sam_26_dd_rms vs run
χ² / ndf 852 / 45
p0 3806 ± 3.897
4200
4100
4000
3900
3800
3700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 30.48 / 45
p0 −1.145e+04 ± 7124
100
50
0
−50
−100
−150
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 493.9
Std Dev 488
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 46
Mean −0.001196
Std Dev 0.814
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 563.1 / 45
p0 4921 ± 5.038
5400
5300
5200
5100
5000
4900
4800
4700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
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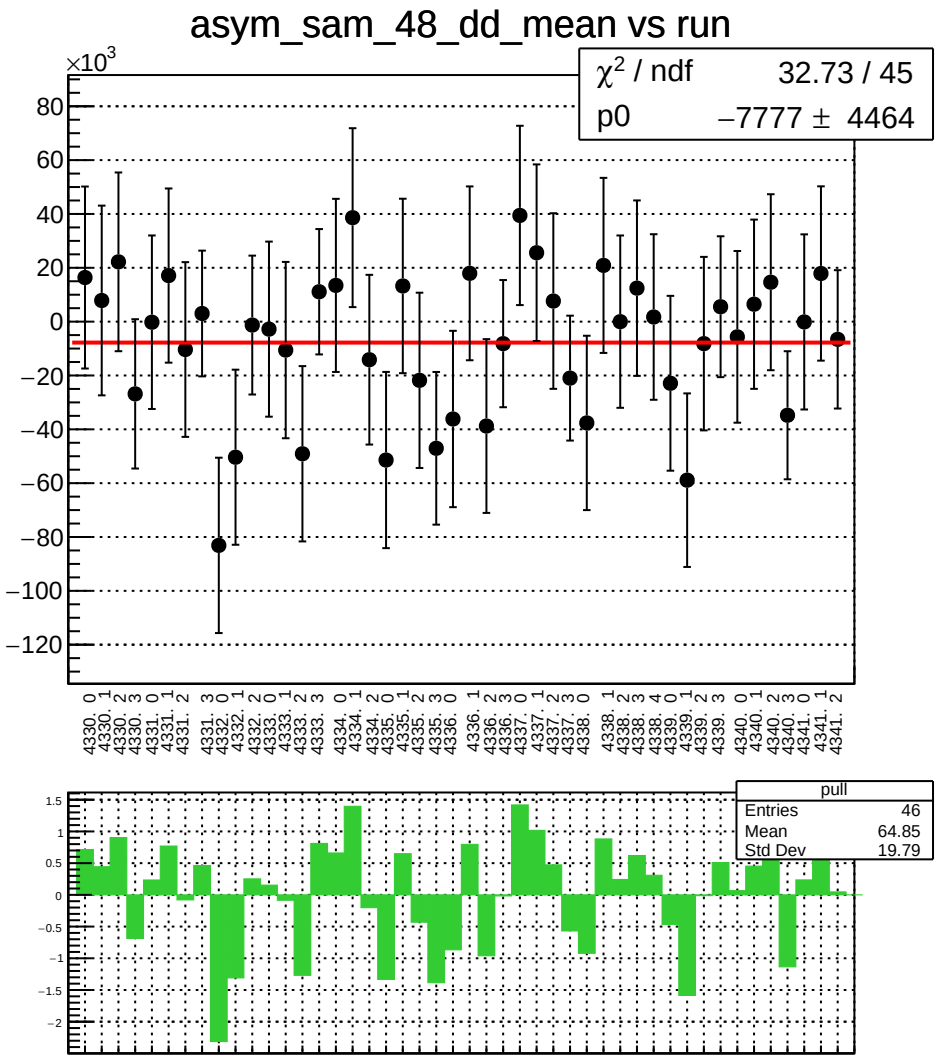
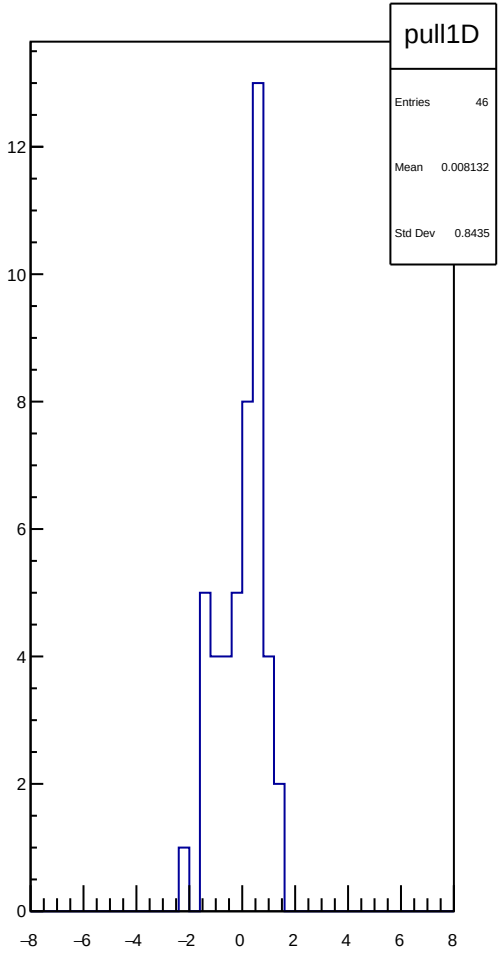
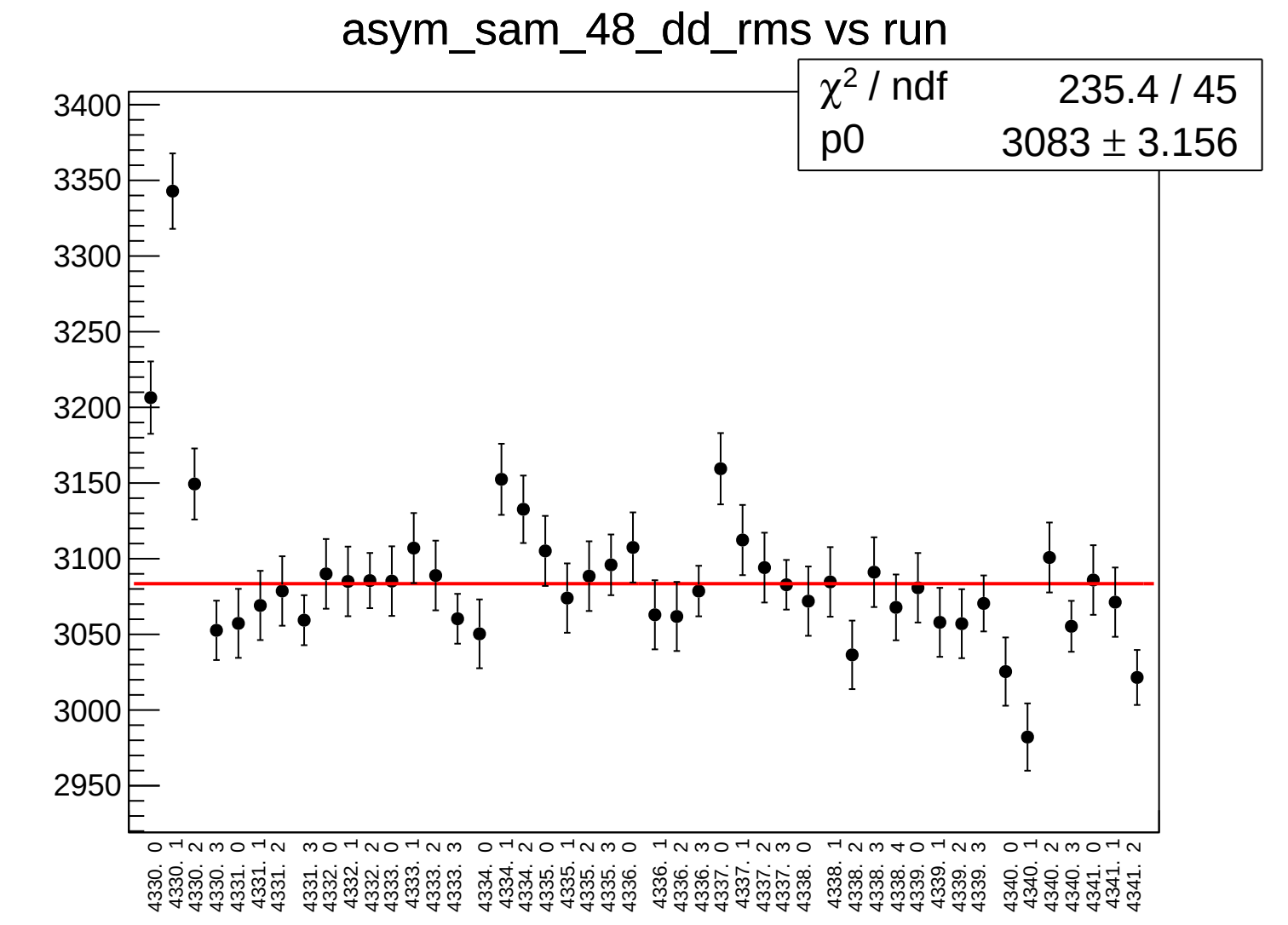
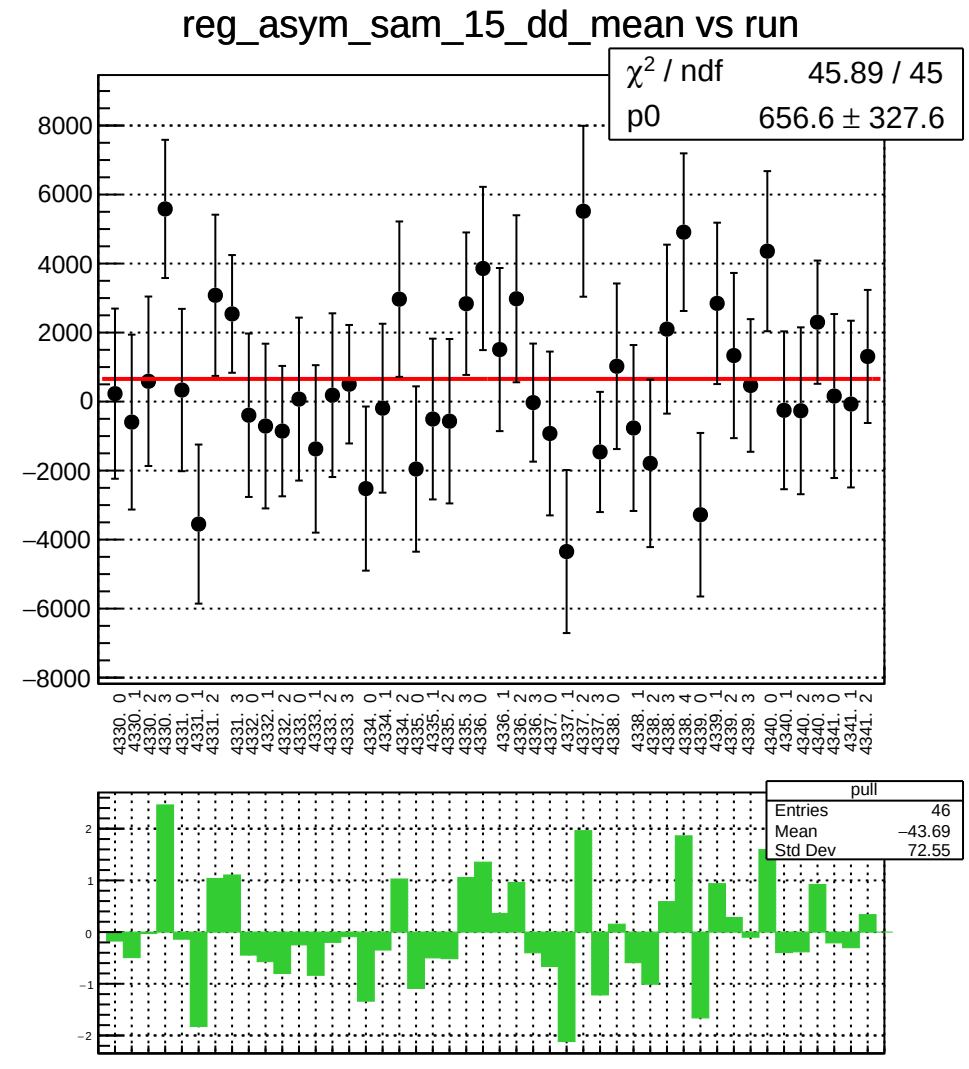
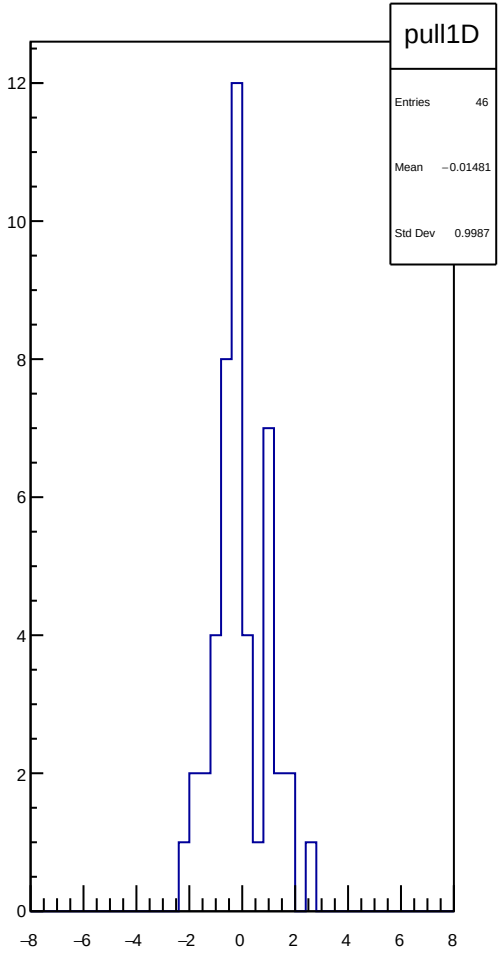
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

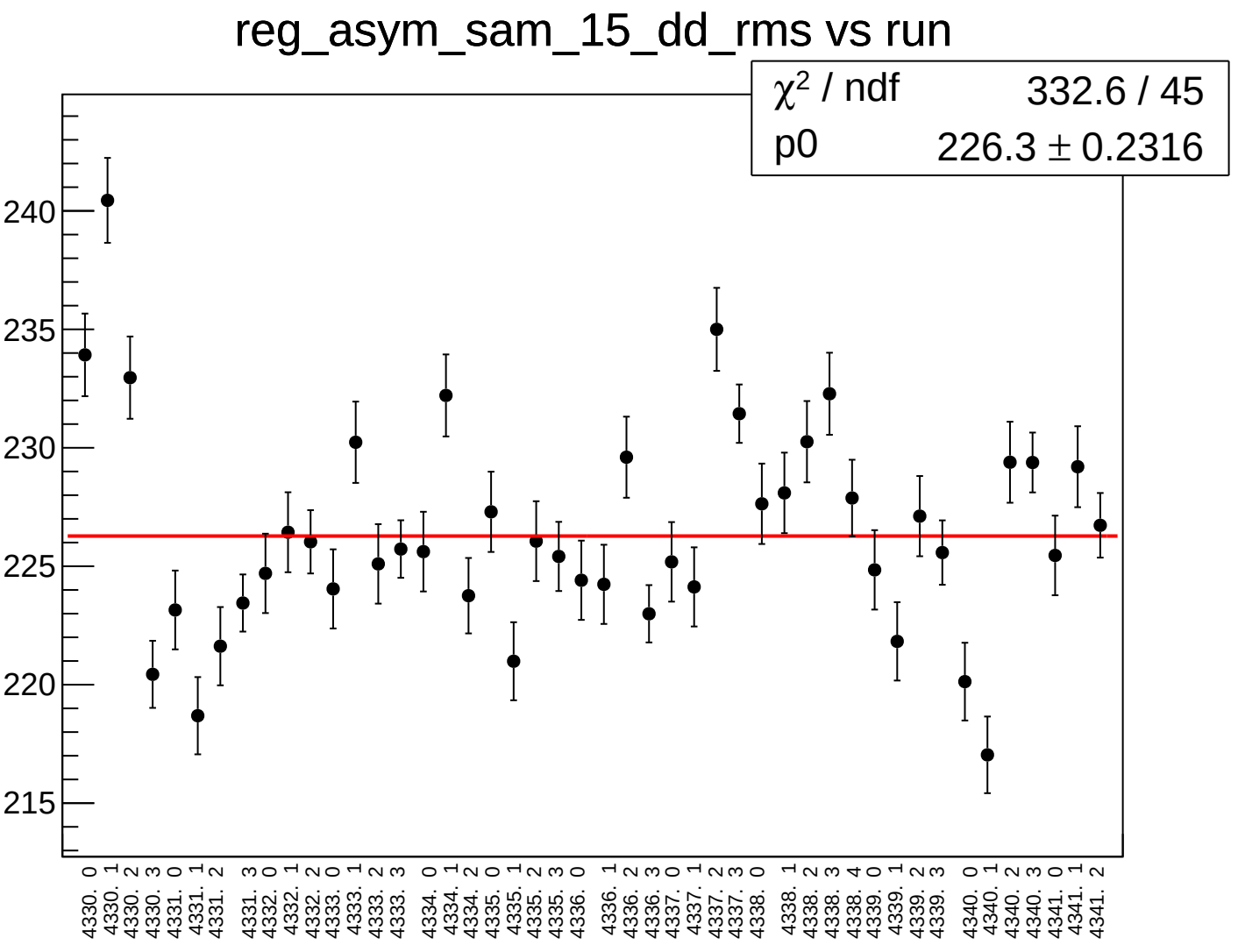

asym_sam_48_dd_mean vs run
χ² / ndf 32.73 / 45
p0 −7777 ± 4464
×10³
pull
Entries 46
Mean 64.85
Std Dev 19.79

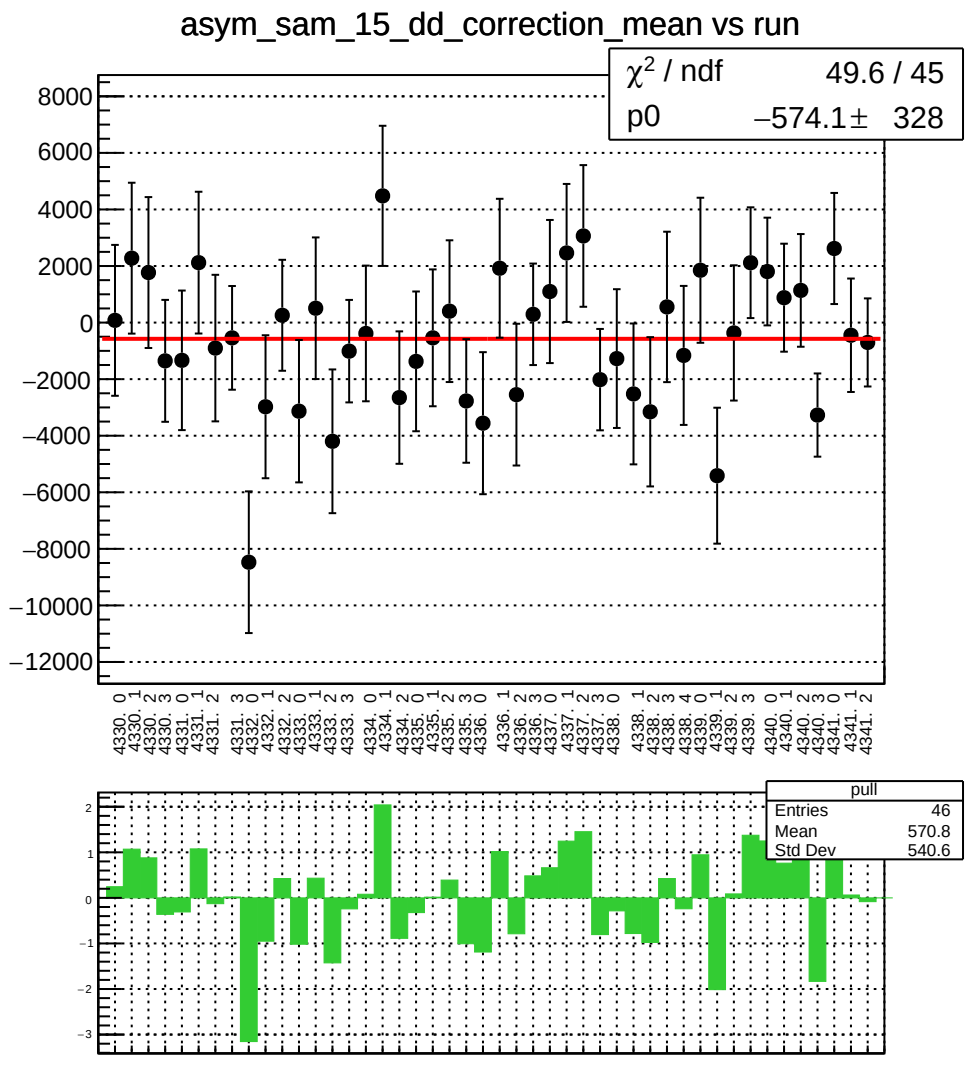

pull1D
Entries 46
Mean 0.008132
Std Dev 0.8435

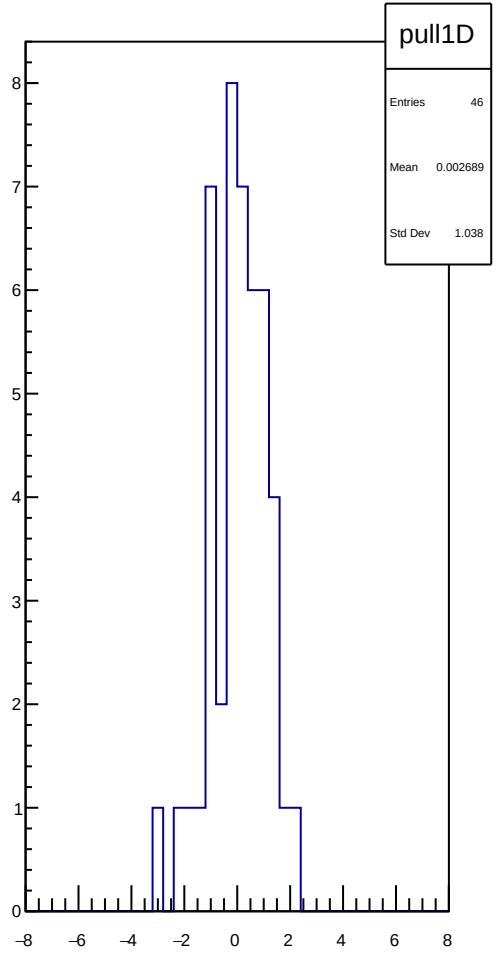

asym_sam_48_dd_rms vs run
χ² / ndf 235.4 / 45
p0 3083 ± 3.156
3400
3350
3300
3250
3200
3150
3100
3050
3000
2950
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

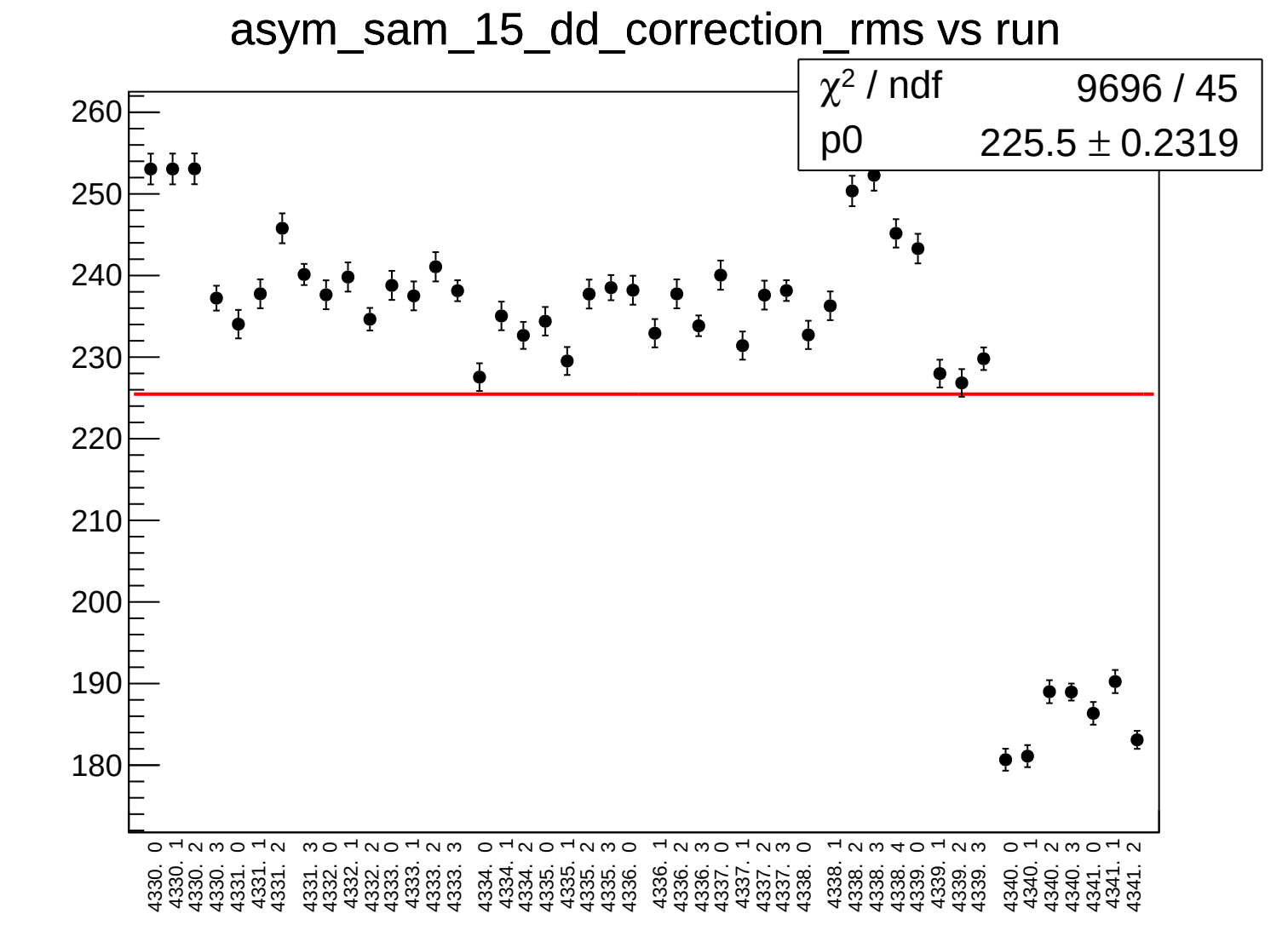

reg_asym_sam_15_dd_mean vs run
χ² / ndf 45.89 / 45
p0 656.6 ± 327.6
pull
Entries 46
Mean −43.69
Std Dev 72.55

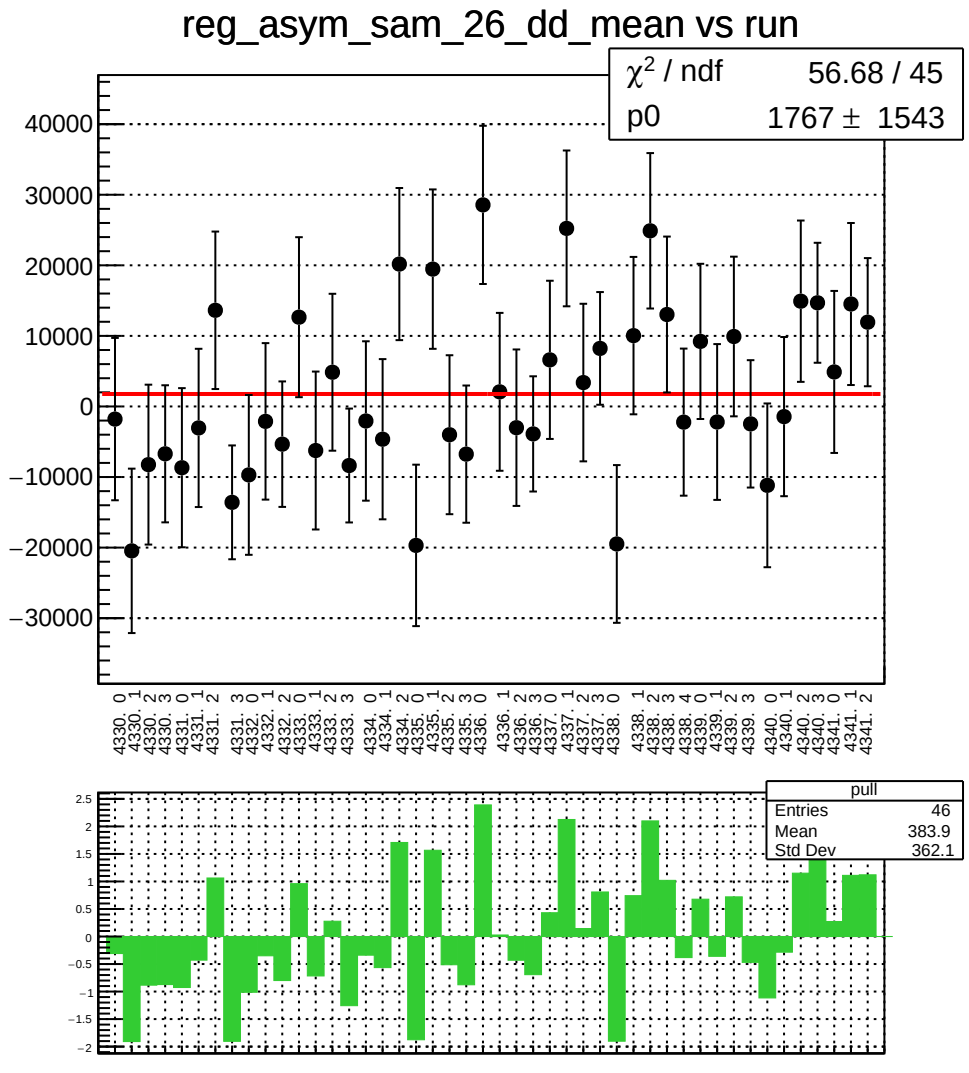

pull1D
Entries 46
Mean −0.01481
Std Dev 0.9987

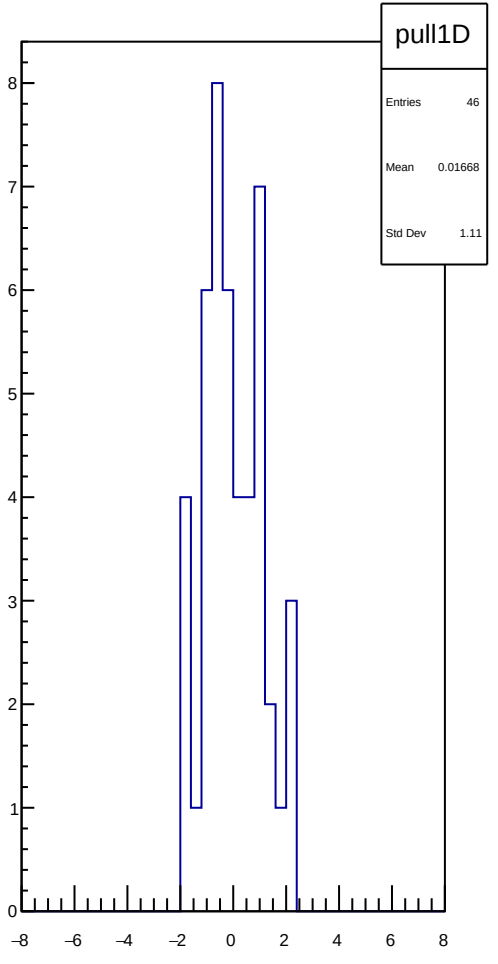

reg_asym_sam_15_dd_rms vs run
χ² / ndf 332.6 / 45
p0 226.3 ± 0.2316
240
235
230
225
220
215
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

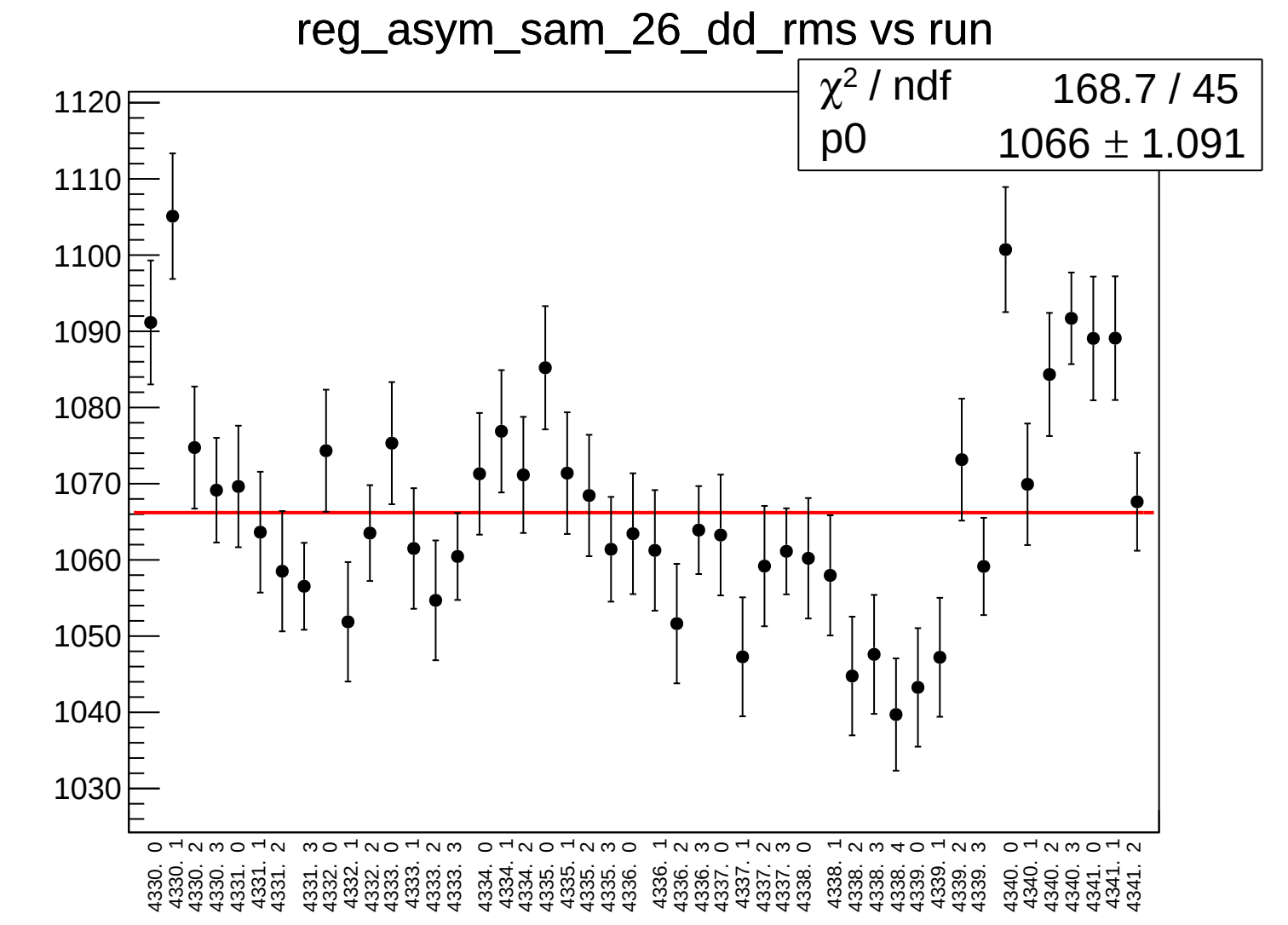

asym_sam_15_dd_correction_mean vs run
χ² / ndf 49.6 / 45
p0 −574.1± 328
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 570.8
Std Dev 540.6
2
1
0
−1
−2
−3

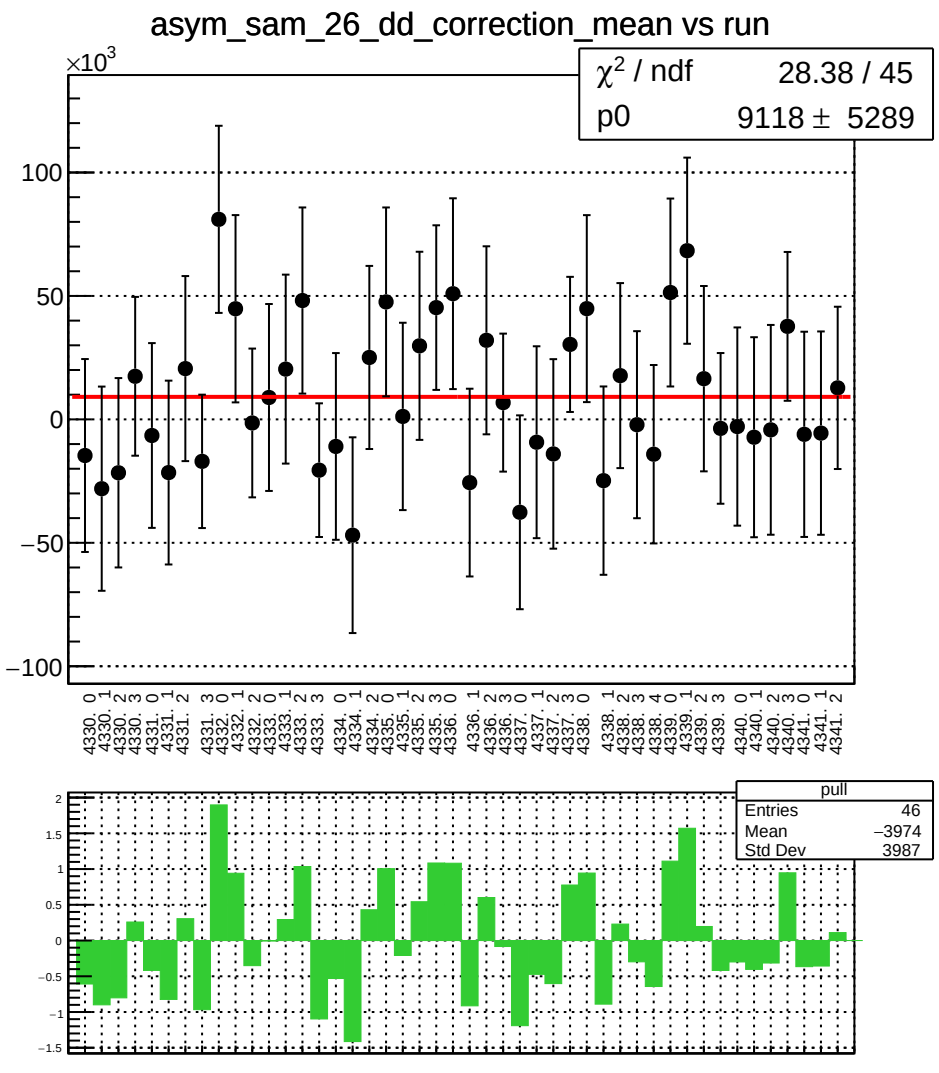

pull1D
Entries 46
Mean 0.002689
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

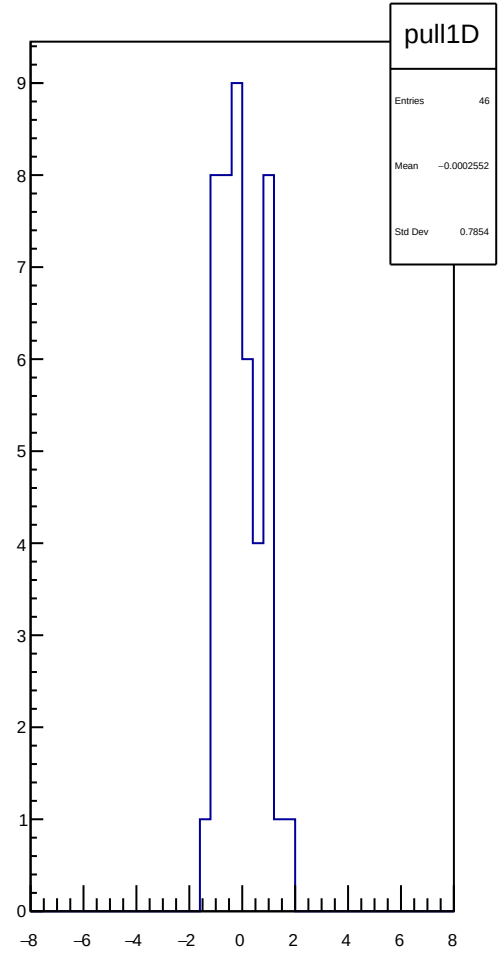

asym_sam_15_dd_correction_rms vs run
χ^2 / ndf 9696 / 45
p0 225.5 ± 0.2319
260
250
240
230
220
210
200
190
180
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

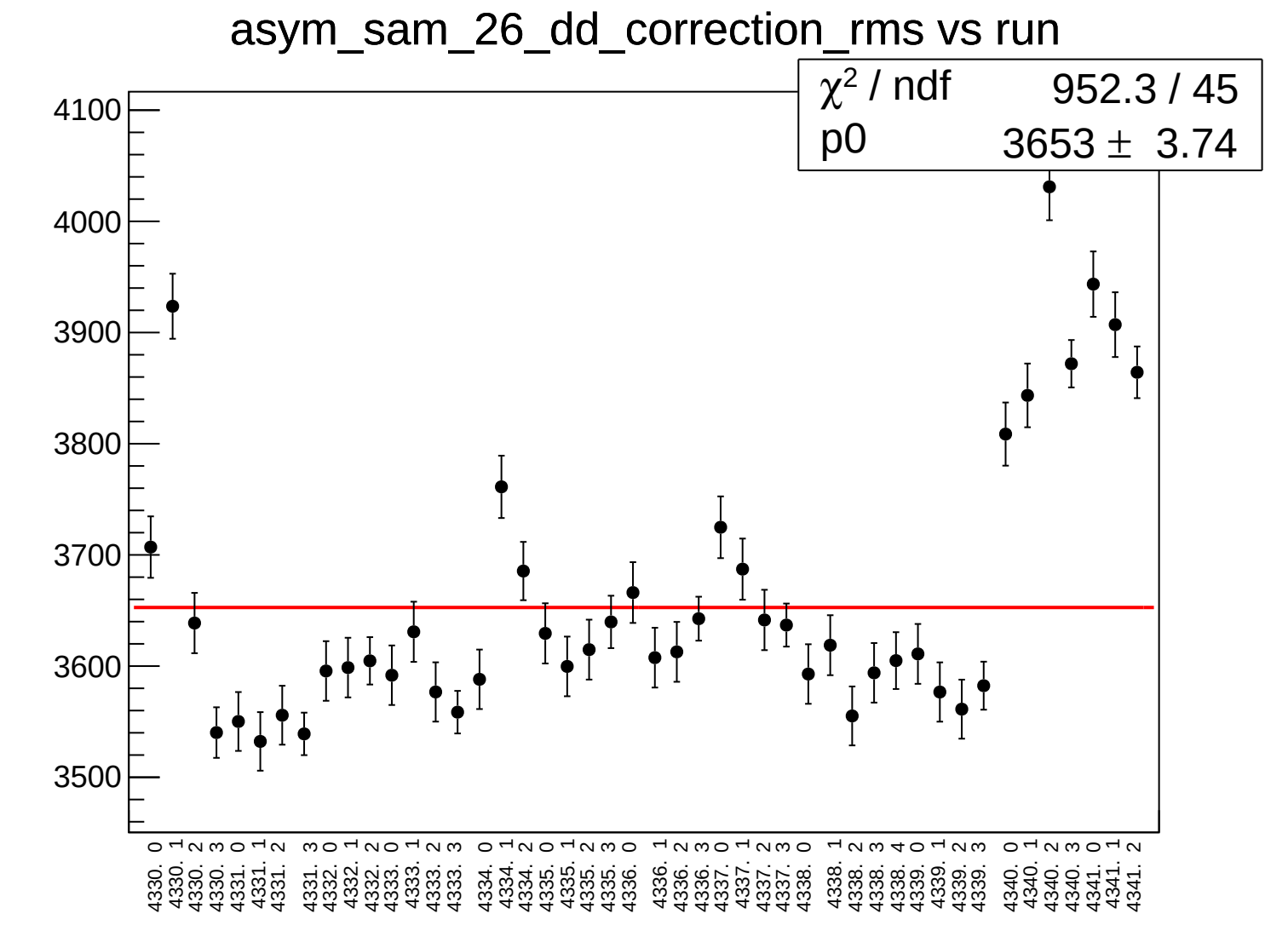

reg_asym_sam_26_dd_mean vs run
χ² / ndf 56.68 / 45
p0 1767 ± 1543
40000
30000
20000
10000
0
−10000
−20000
−30000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 383.9
Std Dev 362.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

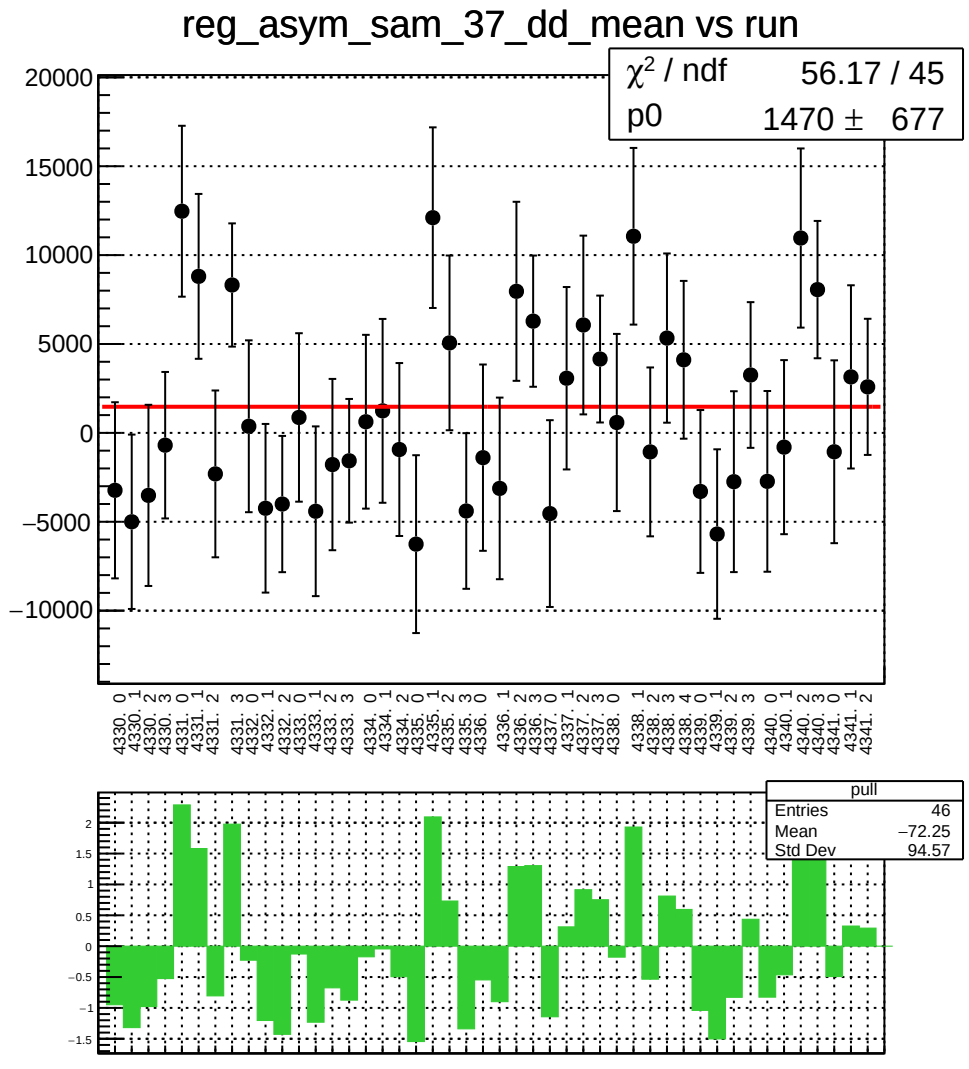

pull1D
Entries 46
Mean 0.01668
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

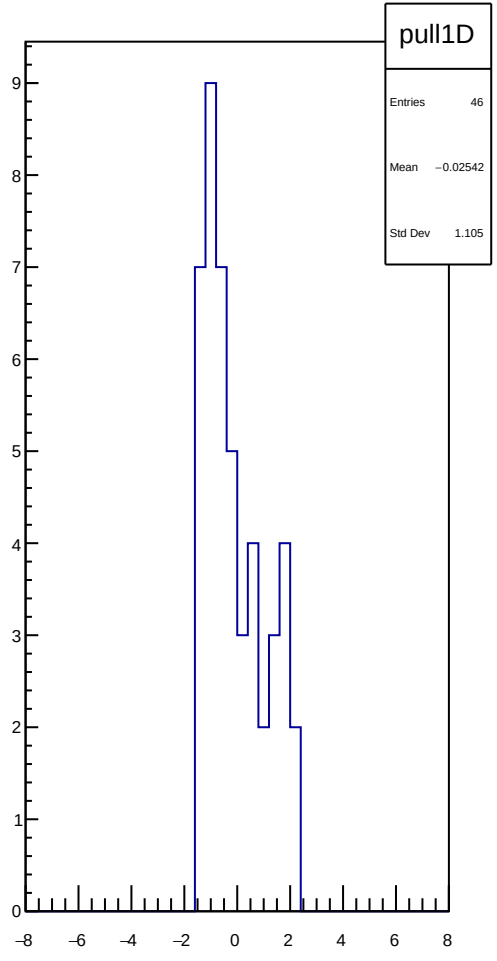

reg_asym_sam_26_dd_rms vs run
χ² / ndf 168.7 / 45
p0 1066 ± 1.091
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

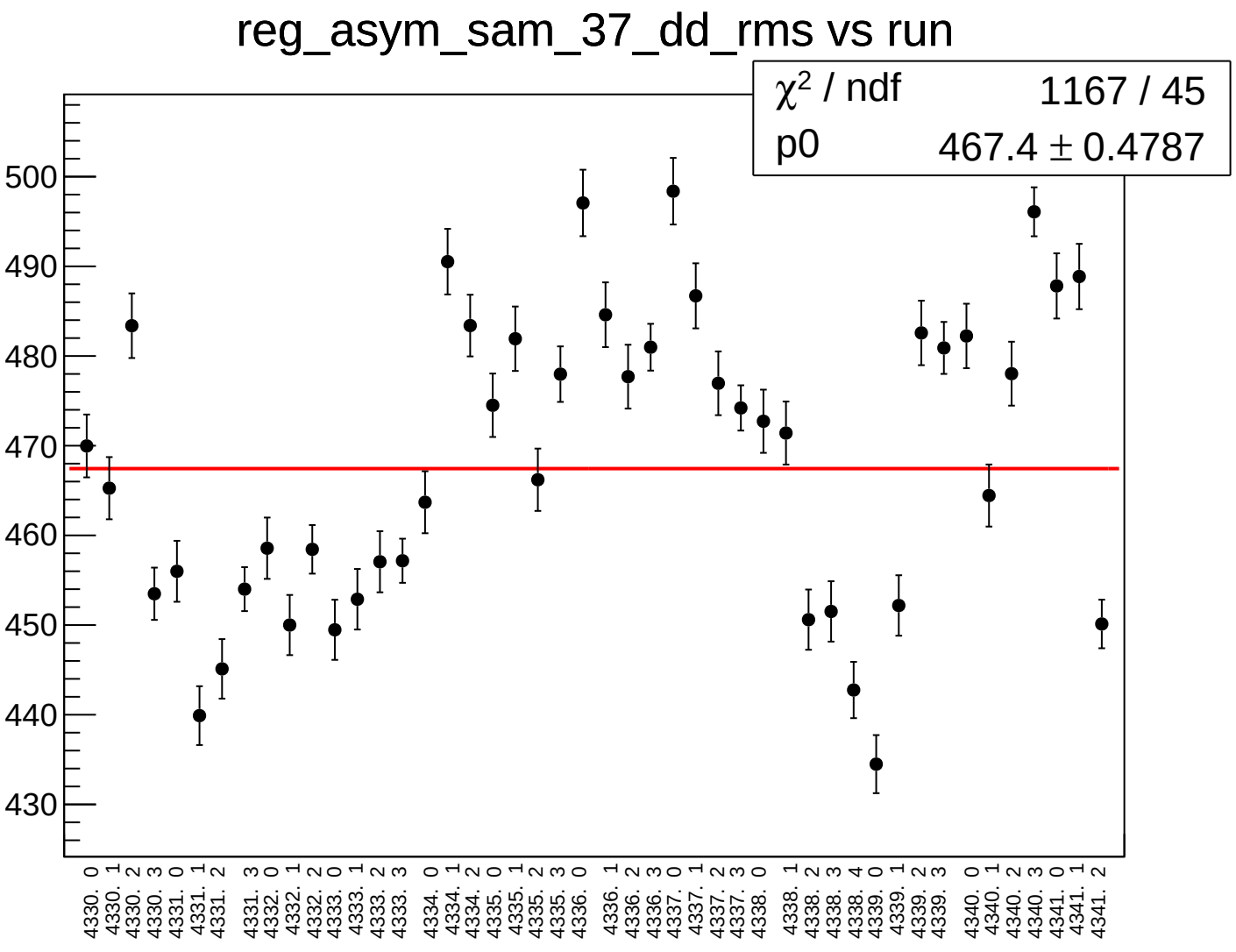

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 28.38 / 45
p0 9118 ± 5289
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −3974
Std Dev 3987
2
1.5
1
0.5
0
−0.5
−1
−1.5

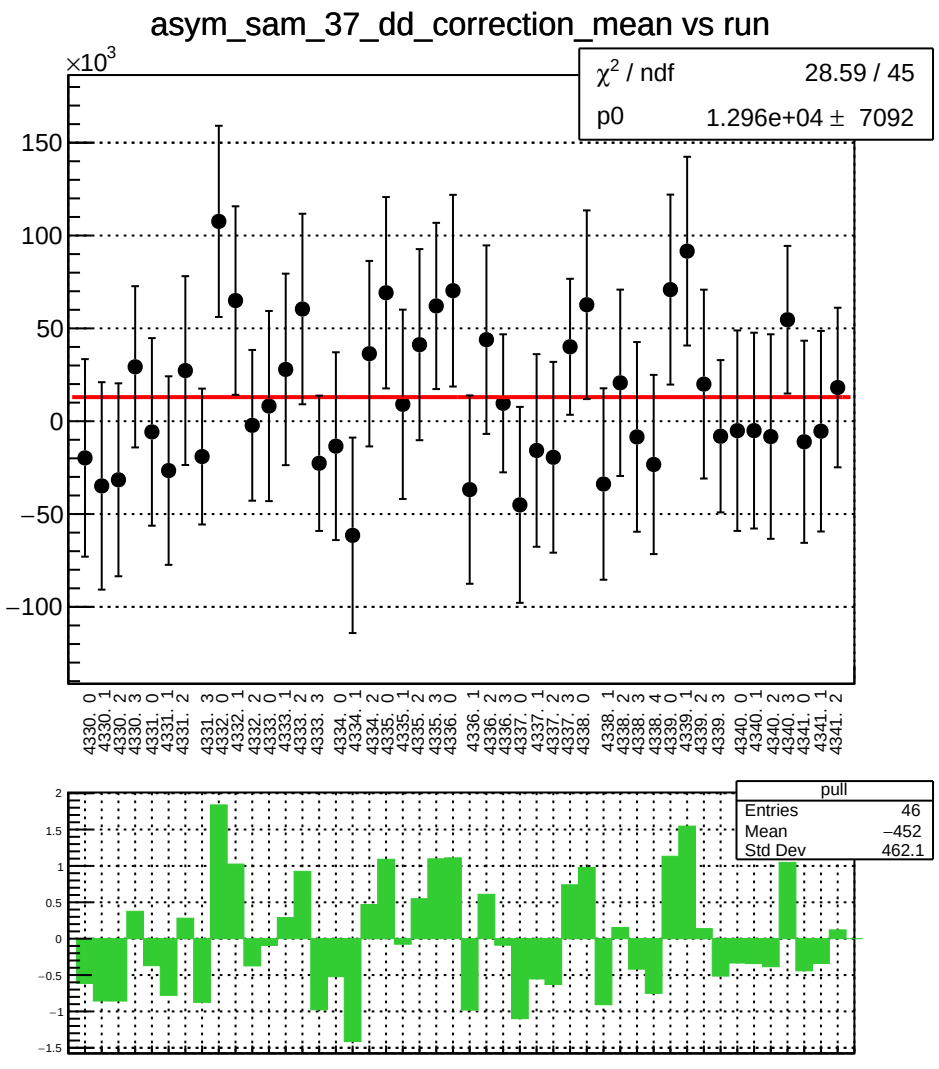

pull1D
Entries 46
Mean −0.0002552
Std Dev 0.7854
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

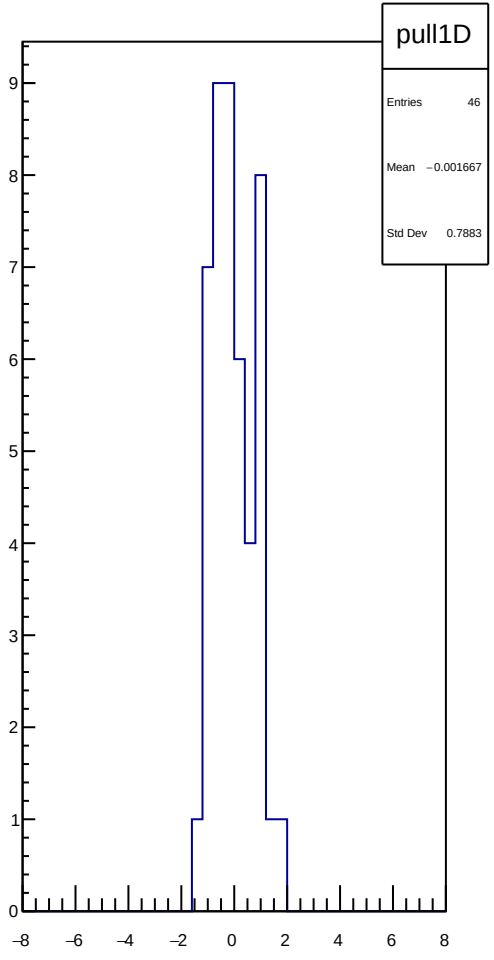

asym_sam_26_dd_correction_rms vs run
χ² / ndf 952.3 / 45
p0 3653 ± 3.74
4100
4000
3900
3800
3700
3600
3500
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

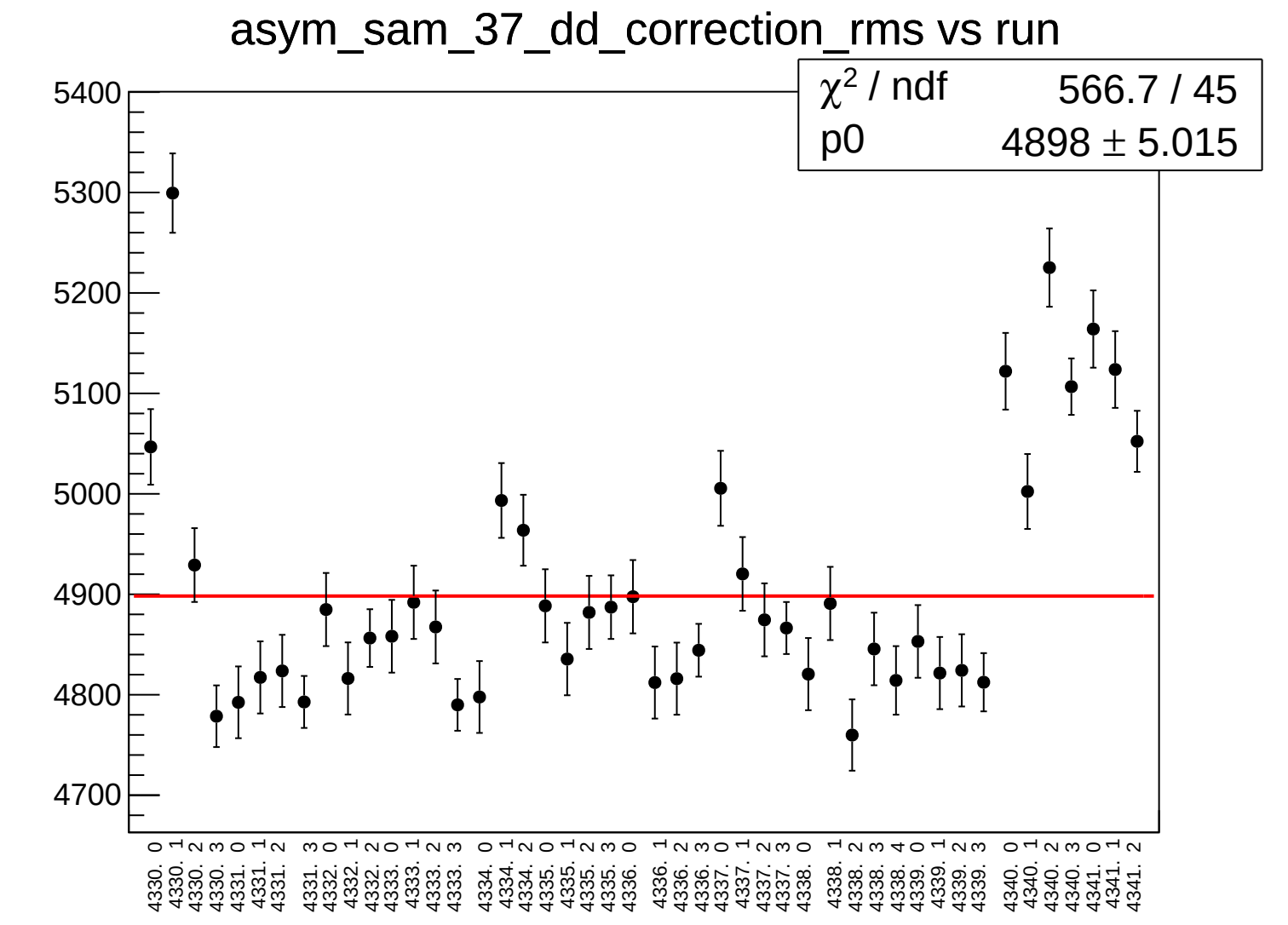

reg_asym_sam_37_dd_mean vs run
χ² / ndf 56.17 / 45
p0 1470 ± 677
pull
Entries 46
Mean −72.25
Std Dev 94.57

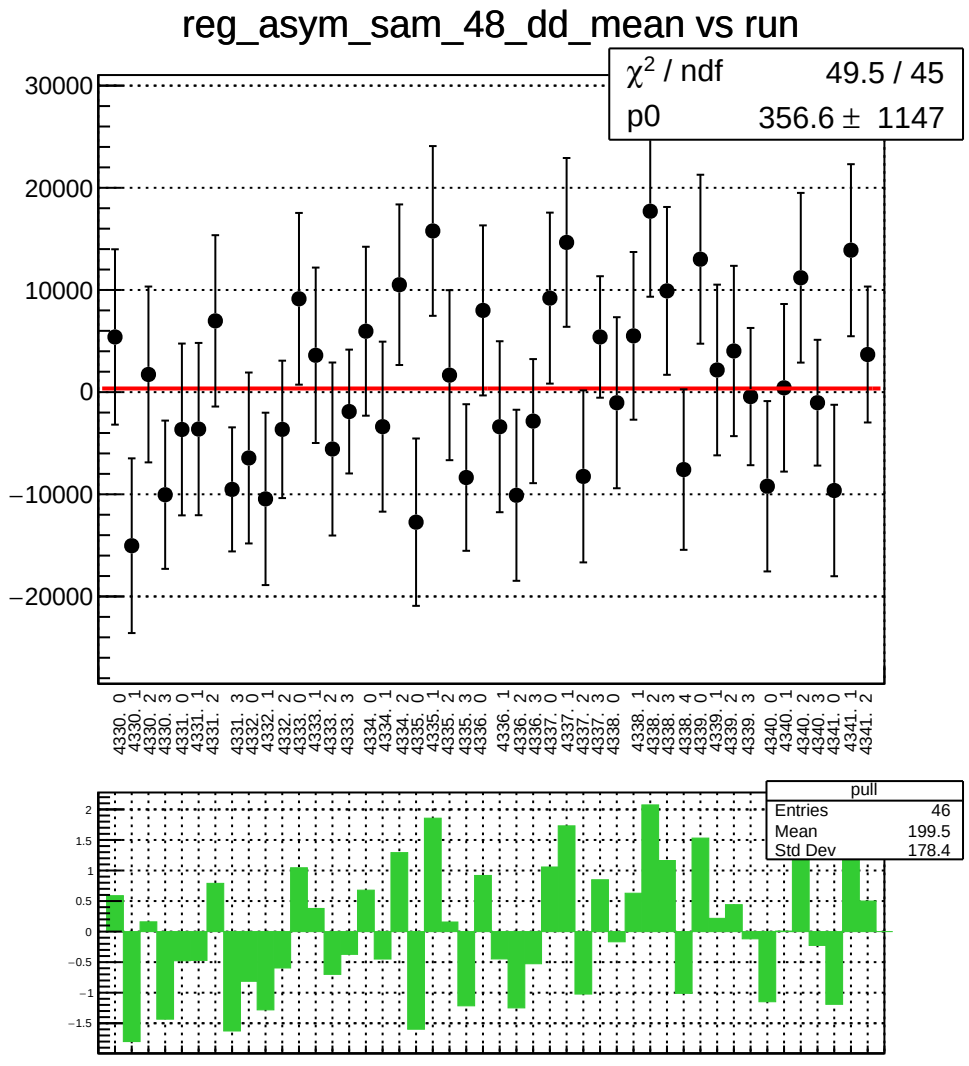

pull1D
Entries 46
Mean −0.02542
Std Dev 1.105

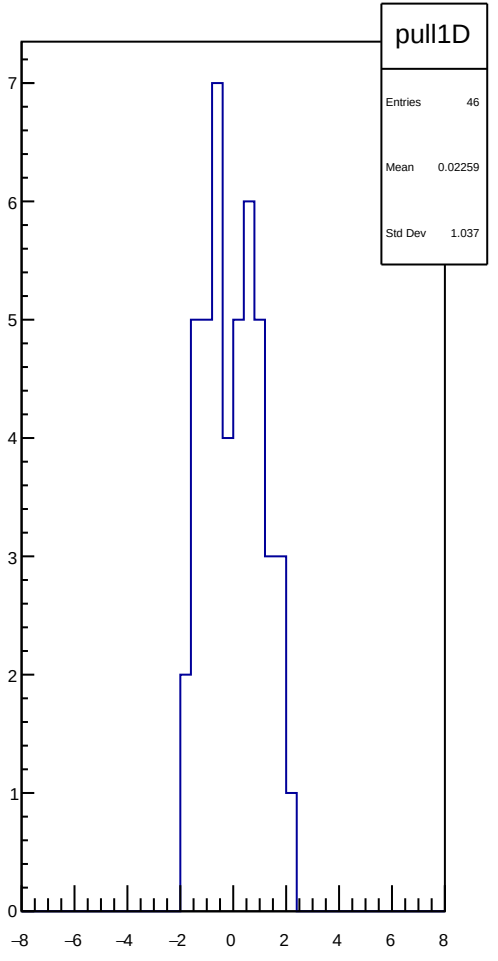

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1167 / 45
p0 467.4 ± 0.4787
500
490
480
470
460
450
440
430
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

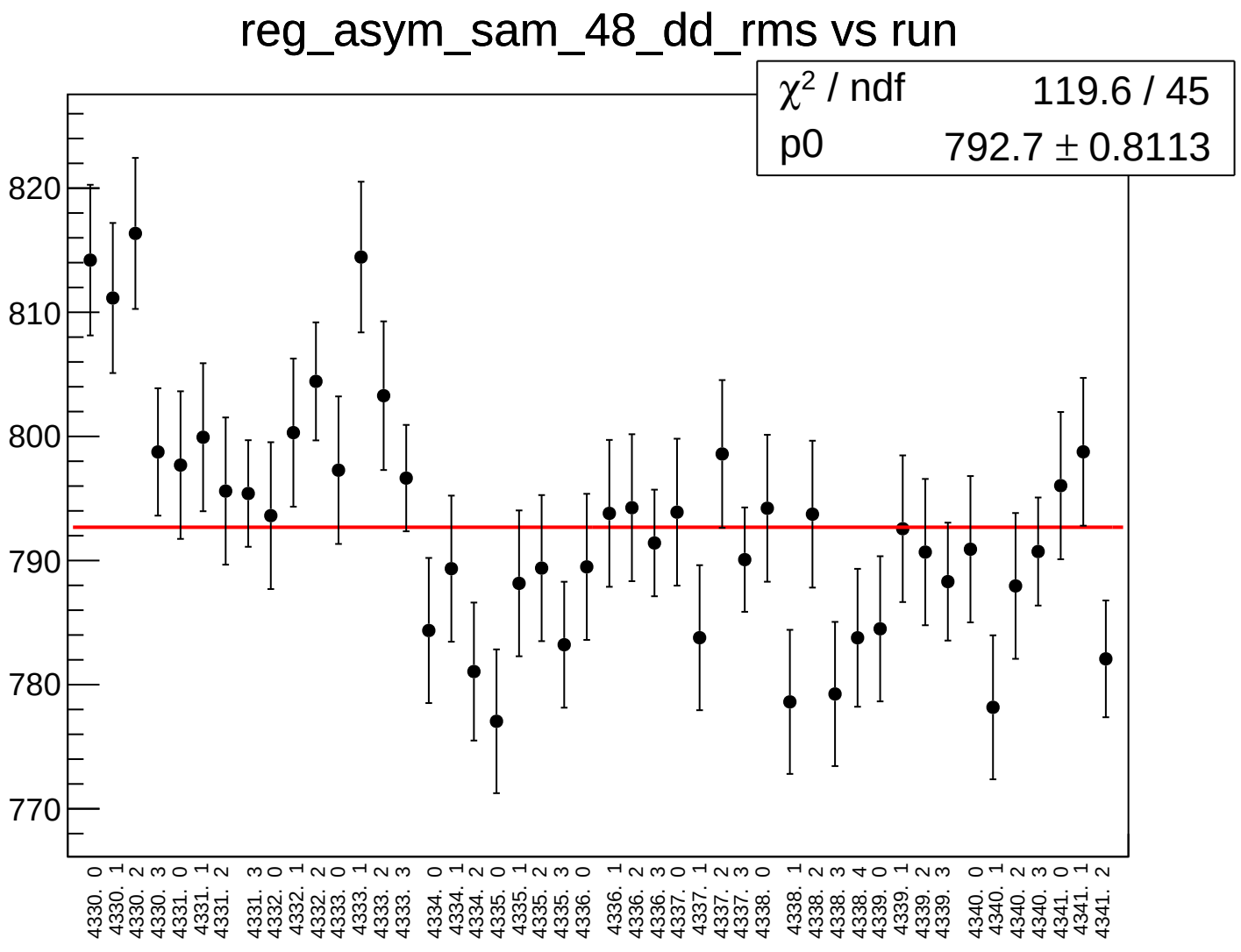

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 28.59 / 45
p0 1.296e+04 ± 7092
150
100
50
0
−50
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −452
Std Dev 462.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

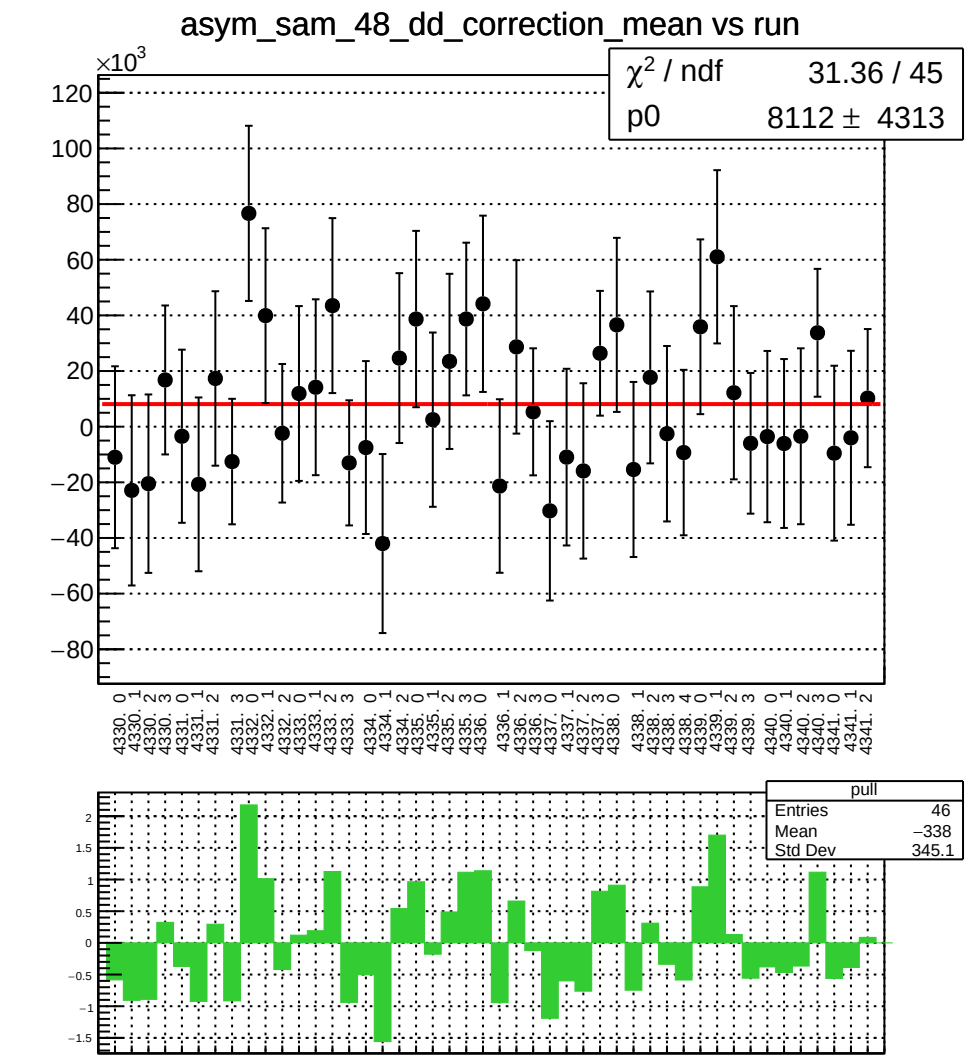

pull1D
Entries 46
Mean −0.001667
Std Dev 0.7883
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

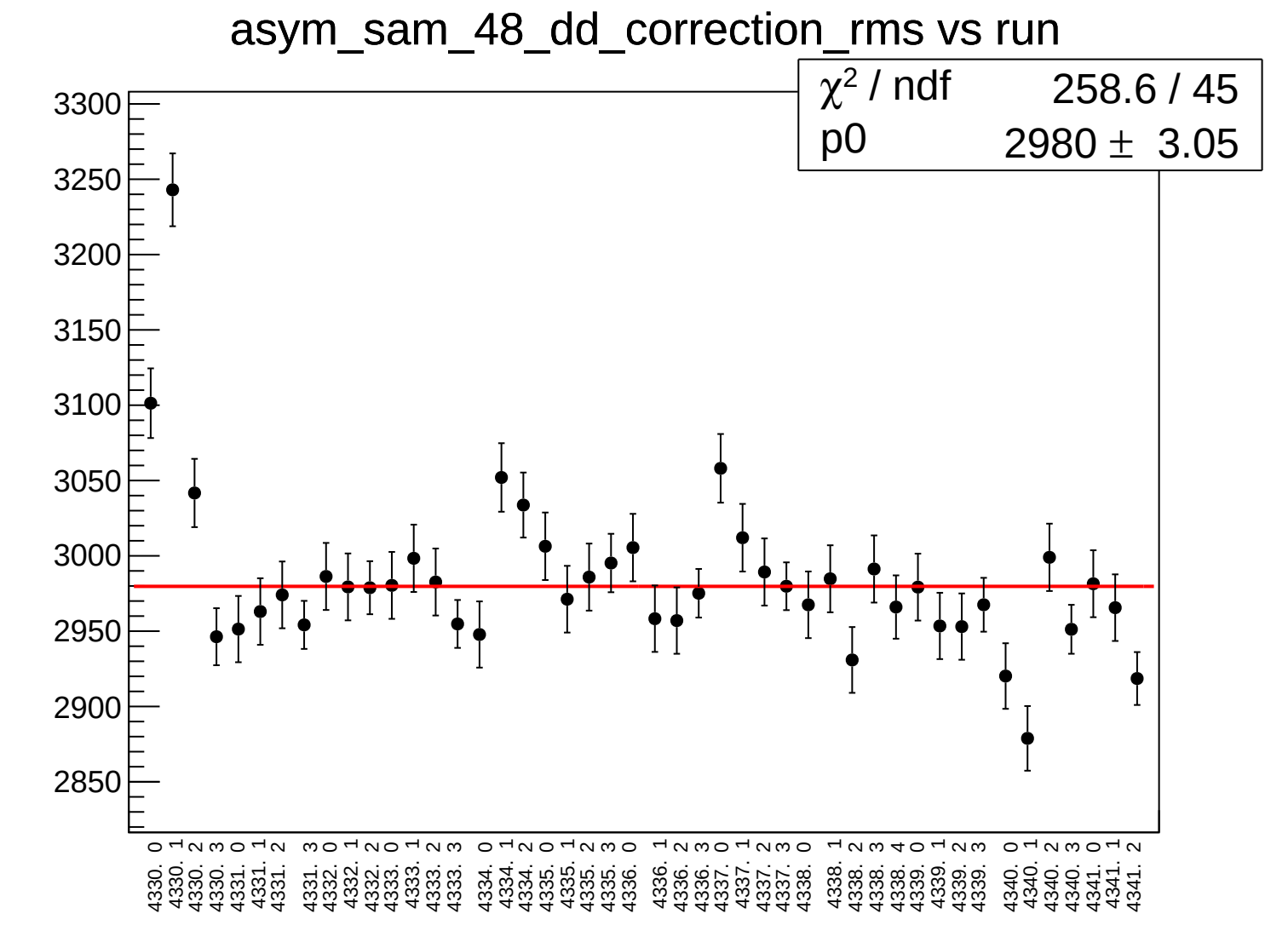

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 566.7 / 45
p0 4898 ± 5.015
5400
5300
5200
5100
5000
4900
4800
4700
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

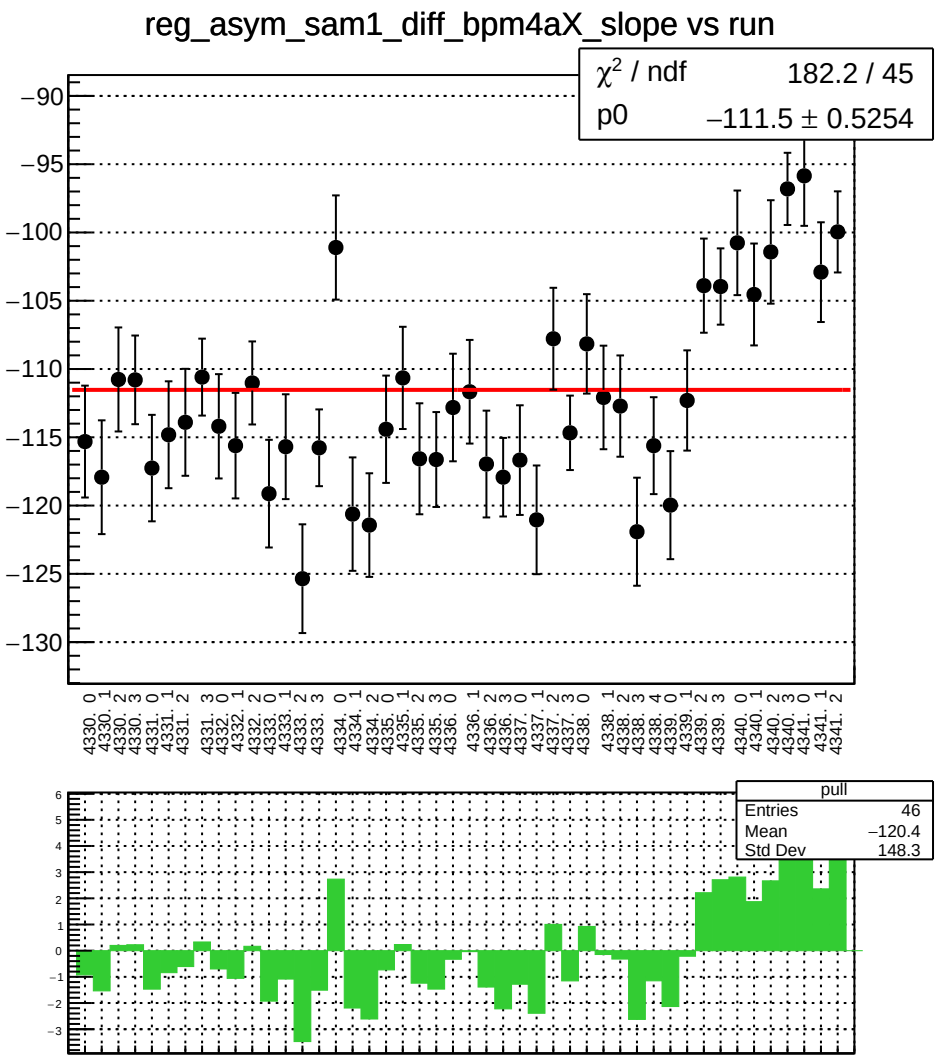

reg_asym_sam_48_dd_mean vs run
χ² / ndf 49.5 / 45
p0 356.6 ± 1147
30000
20000
10000
0
−10000
−20000
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 199.5
Std Dev 178.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

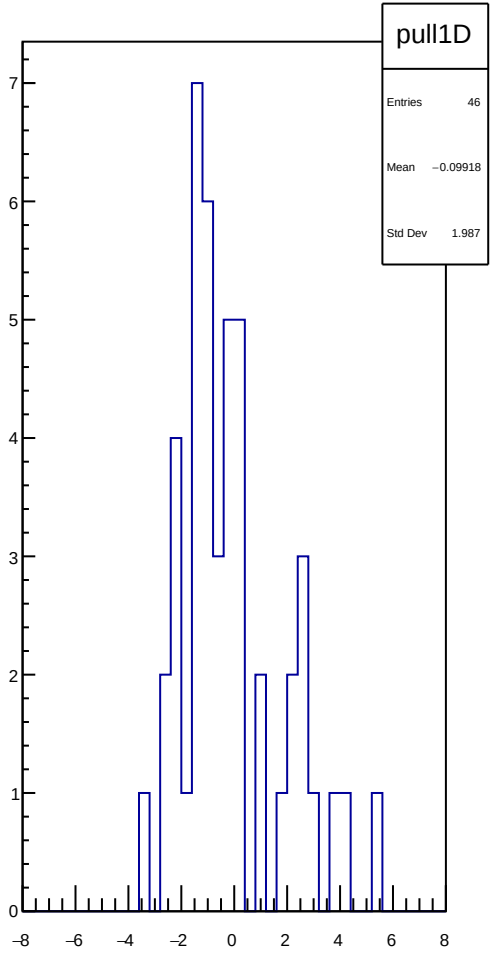

pull1D
Entries 46
Mean 0.02259
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

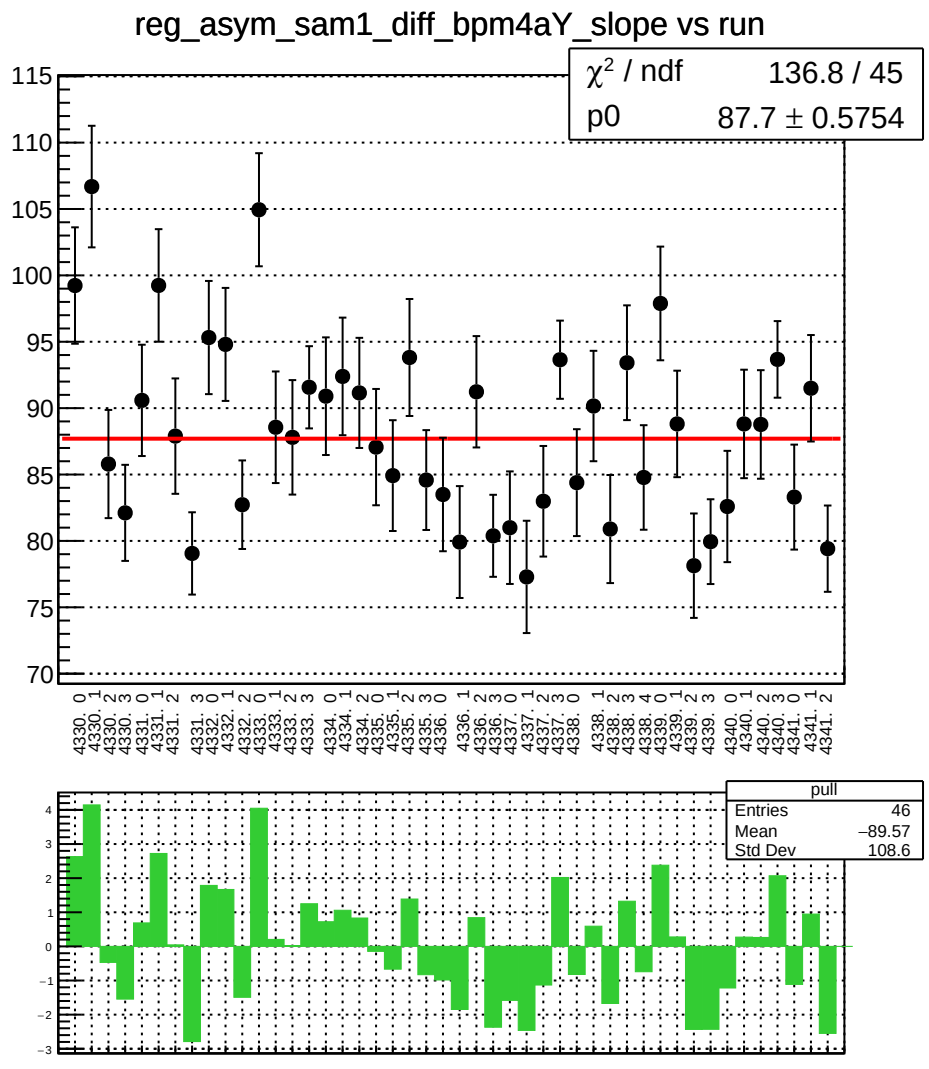

reg_asym_sam_48_dd_rms vs run
χ² / ndf 119.6 / 45
p0 792.7 ± 0.8113
820
810
800
790
780
770
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

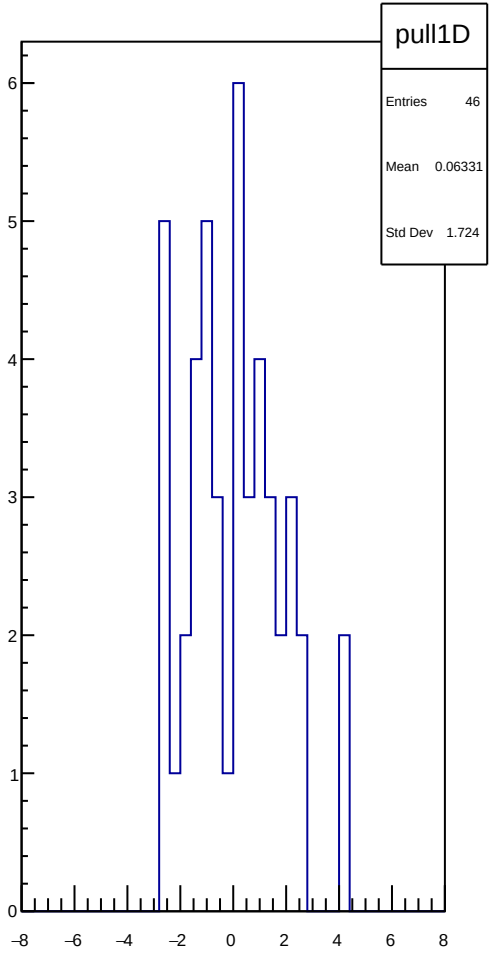

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 31.36 / 45
p0 8112 ± 4313
120
100
80
60
40
20
0
−20
−40
−60
−80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −338
Std Dev 345.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.001938
Std Dev 0.8256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

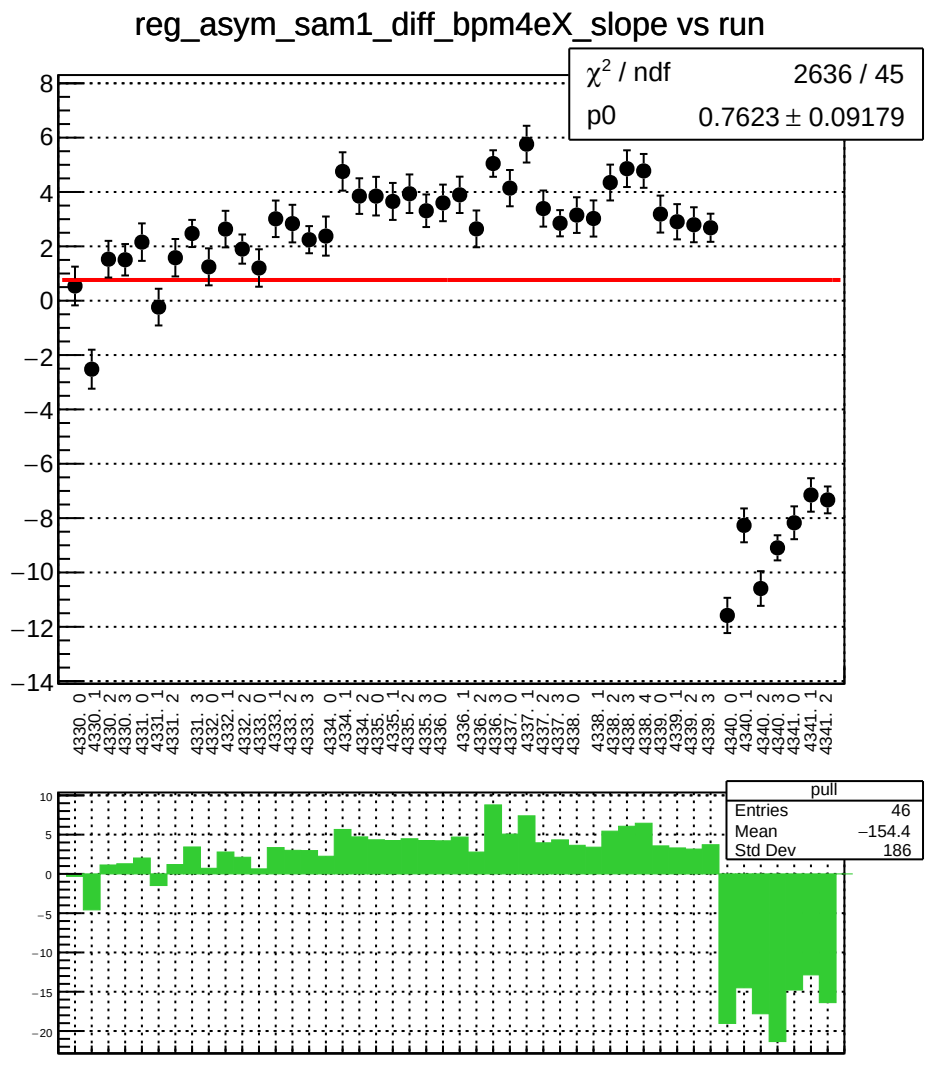

asym_sam_48_dd_correction_rms vs run
χ² / ndf 258.6 / 45
p0 2980 ± 3.05
3300
3250
3200
3150
3100
3050
3000
2950
2900
2850
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2

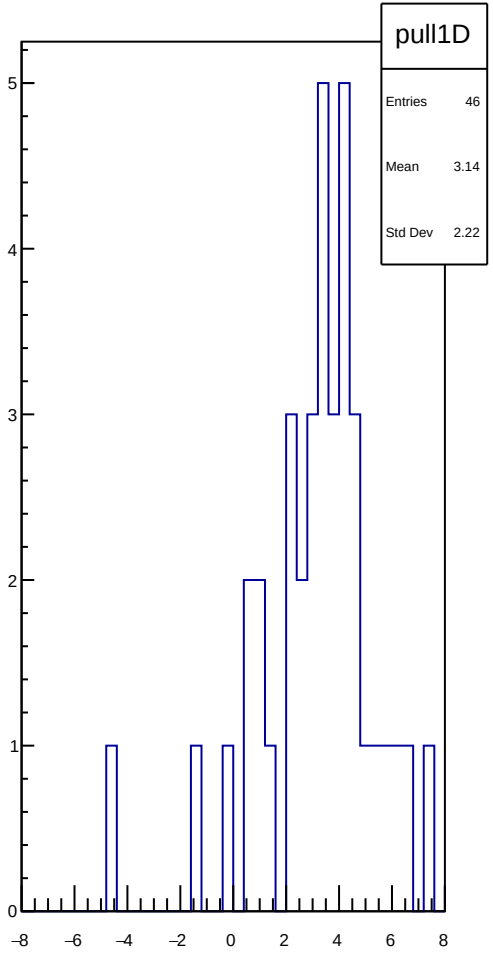

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 182.2 / 45
p0 −111.5 ± 0.5254
pull
Entries 46
Mean −120.4
Std Dev 148.3

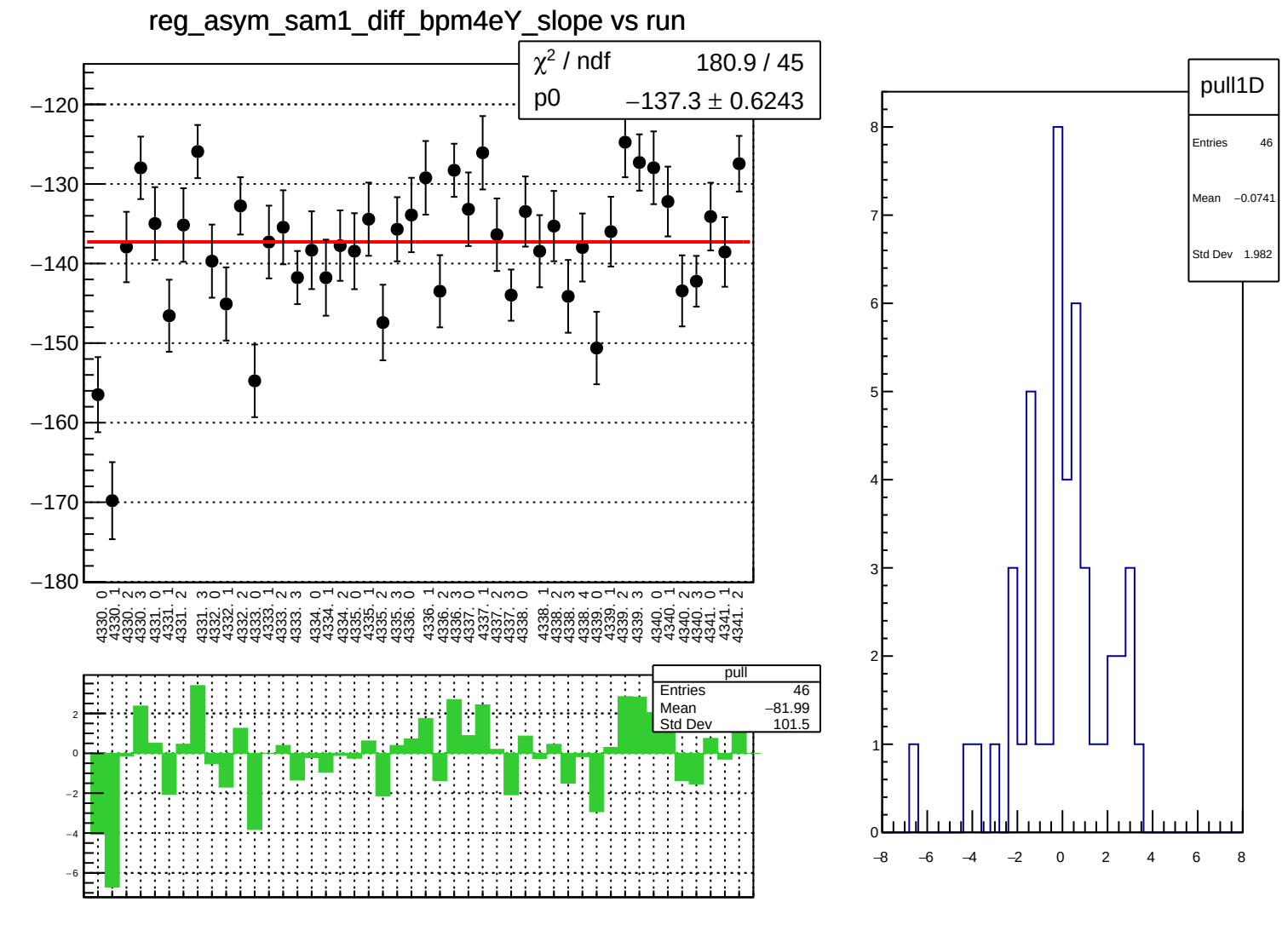

pull1D
Entries 46
Mean −0.09918
Std Dev 1.987

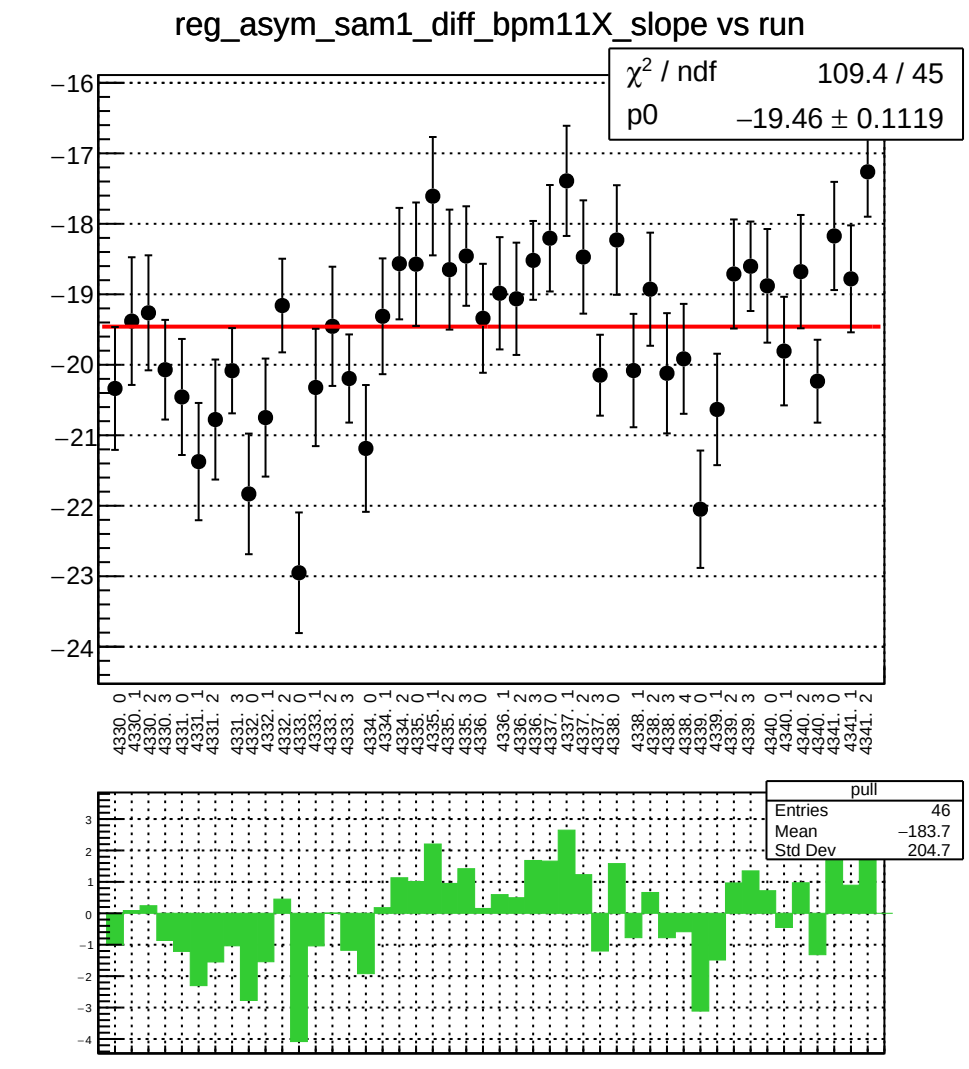

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 136.8 / 45
p0 87.7 ± 0.5754
pull
Entries 46
Mean −89.57
Std Dev 108.6

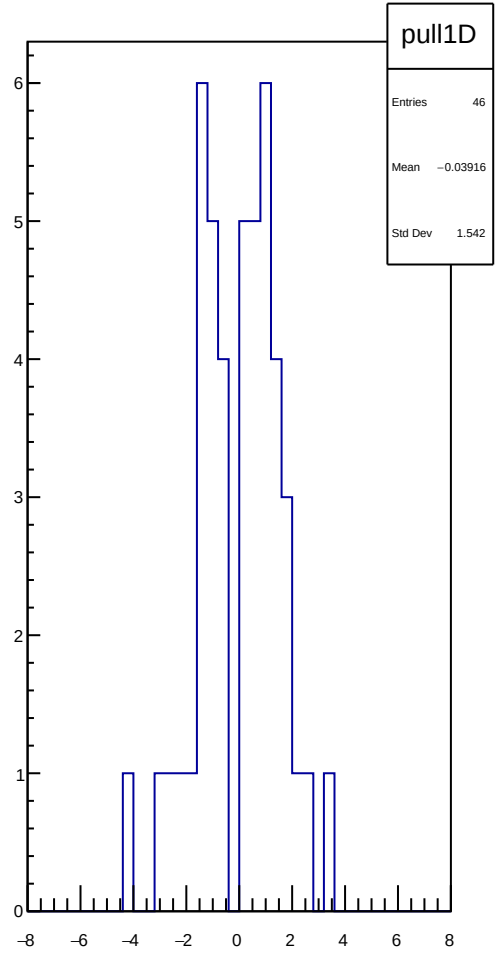

pull1D
Entries 46
Mean 0.06331
Std Dev 1.724

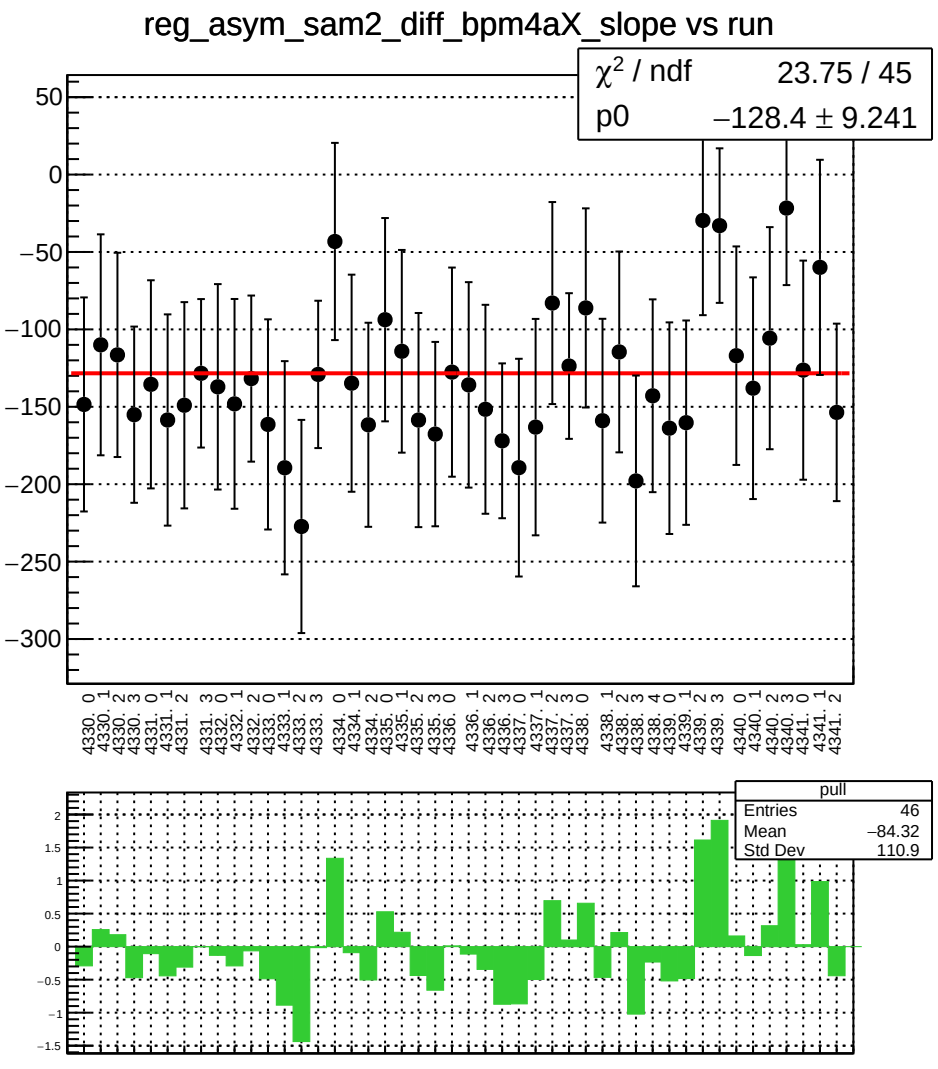

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 2636 / 45
p0 0.7623 ± 0.09179
pull
Entries 46
Mean −154.4
Std Dev 186

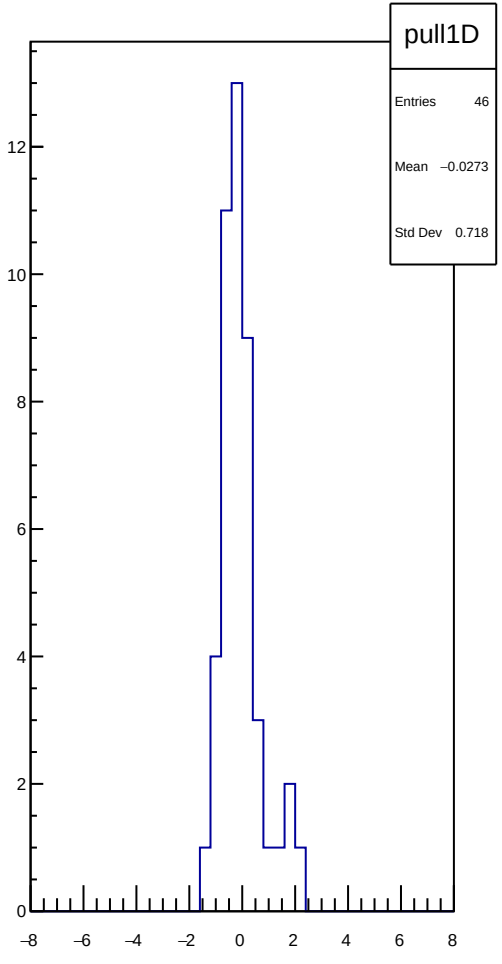

pull1D
Entries 46
Mean 3.14
Std Dev 2.22

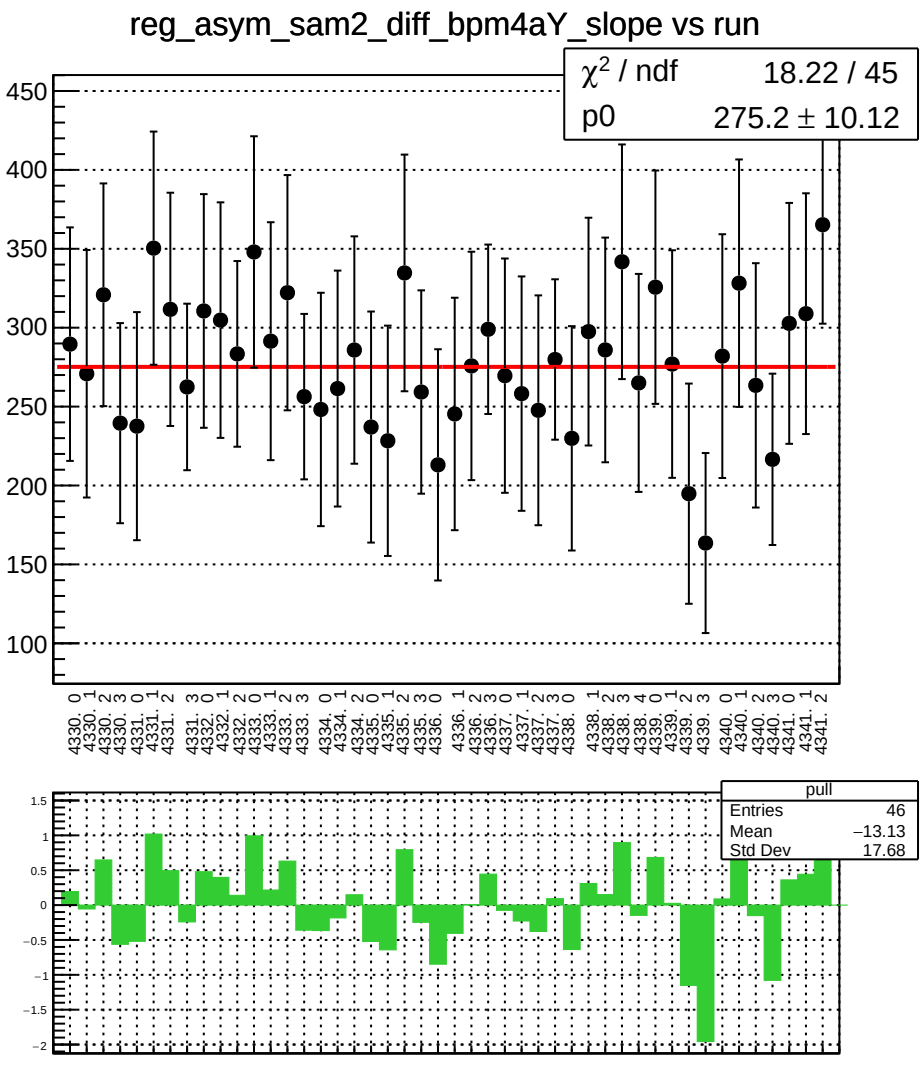

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 180.9 / 45
p0 −137.3 ± 0.6243
pull
Entries 46
Mean −81.99
Std Dev 101.5
pull1D
Entries 46
Mean −0.0741
Std Dev 1.982

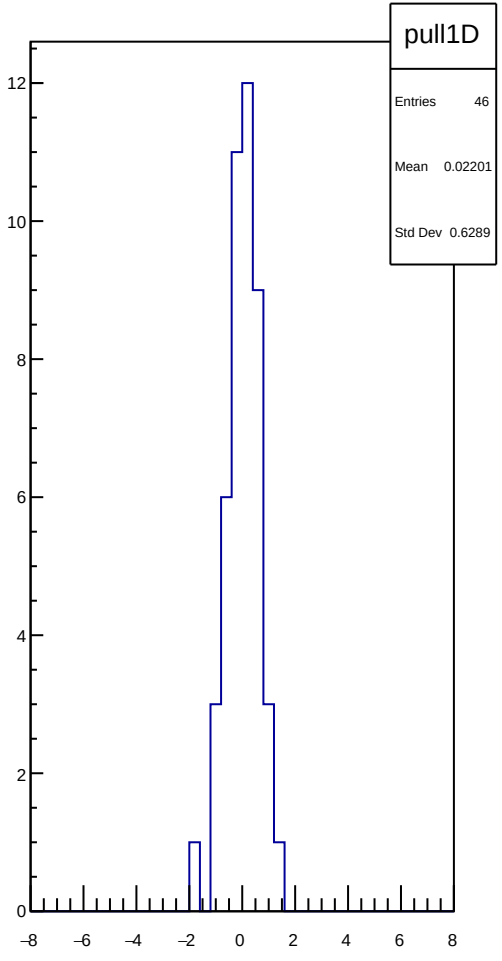

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 109.4 / 45
p0 −19.46 ± 0.1119
pull
Entries 46
Mean −183.7
Std Dev 204.7

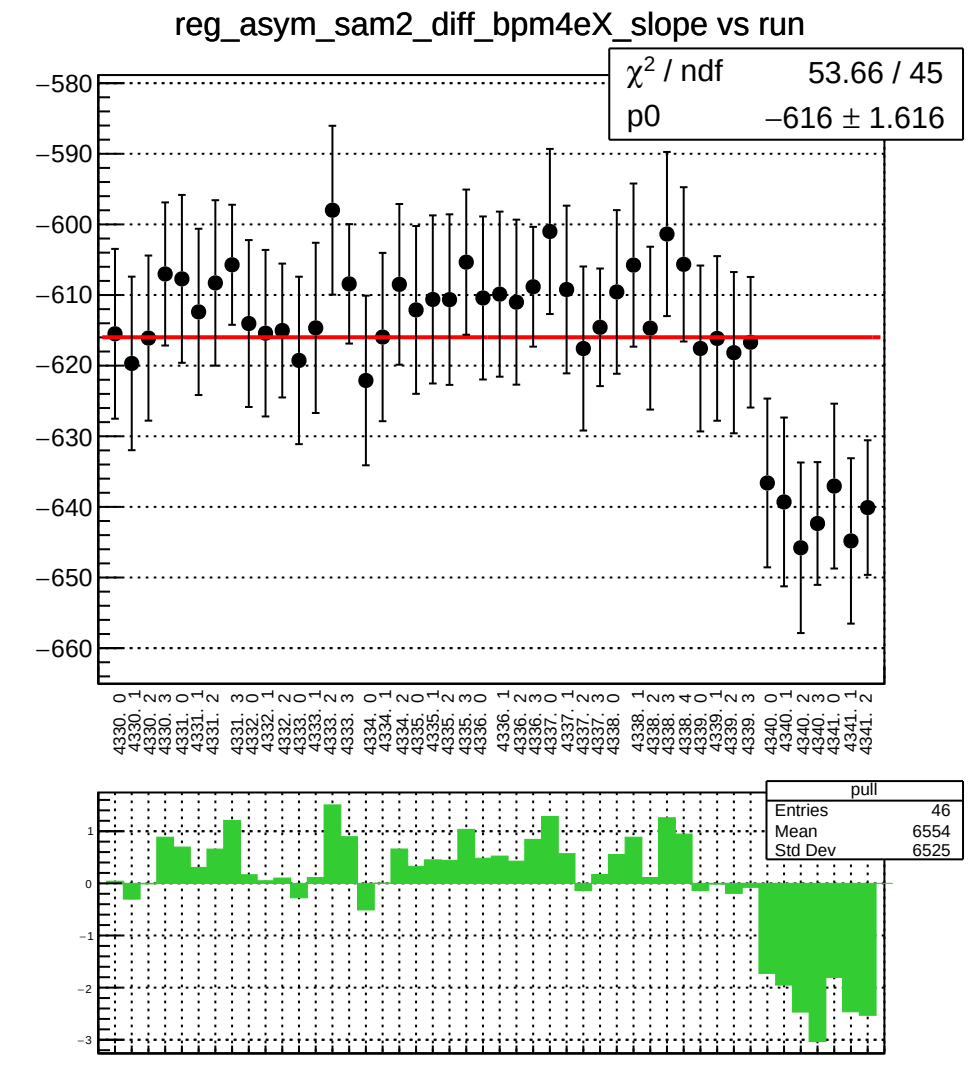

pull1D
Entries 46
Mean −0.03916
Std Dev 1.542

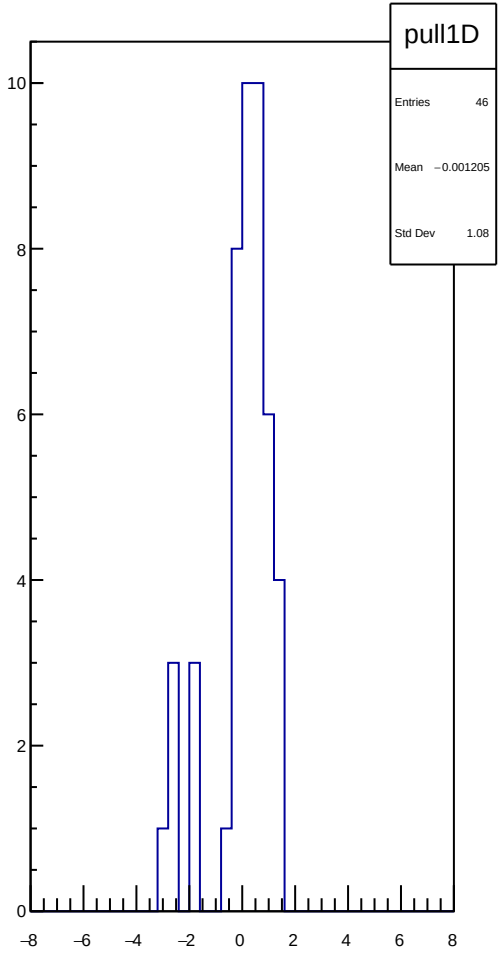

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 23.75 / 45
p0 −128.4 ± 9.241
pull
Entries 46
Mean −84.32
Std Dev 110.9

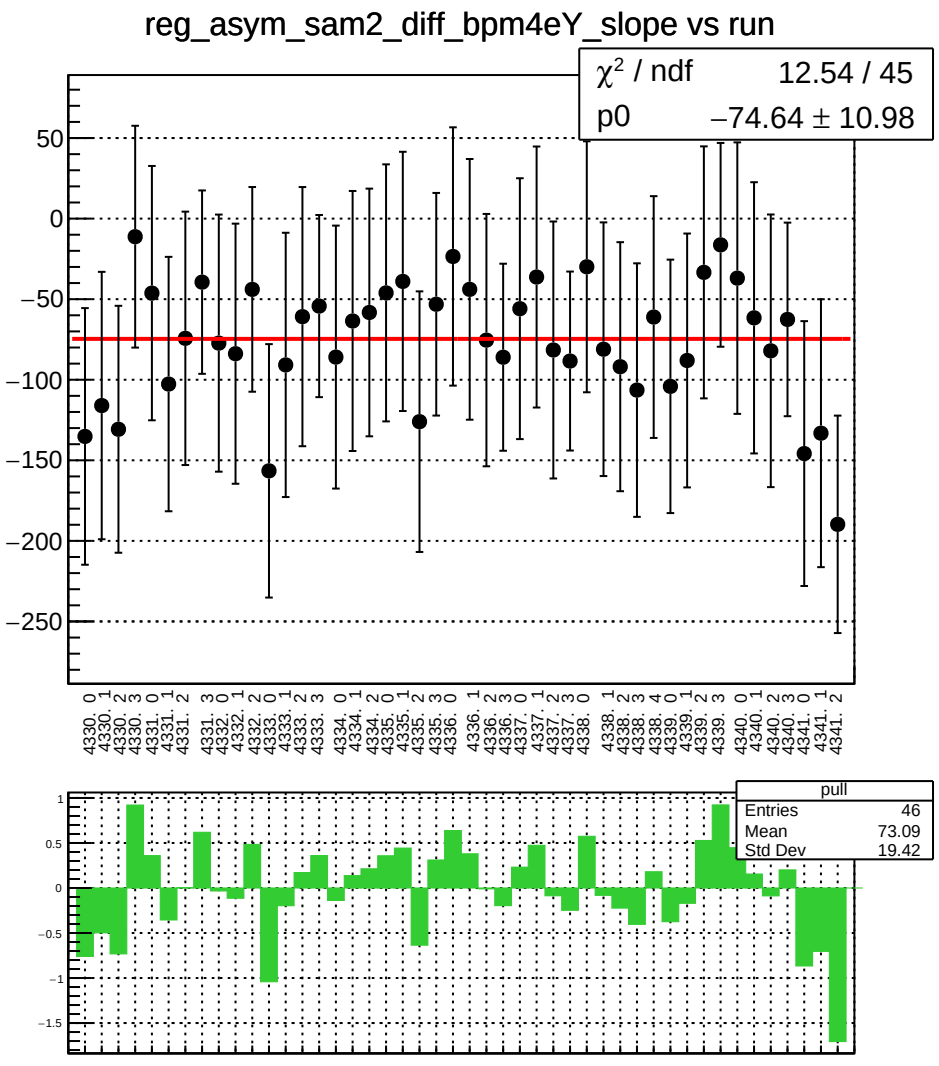

pull1D
Entries 46
Mean −0.0273
Std Dev 0.718

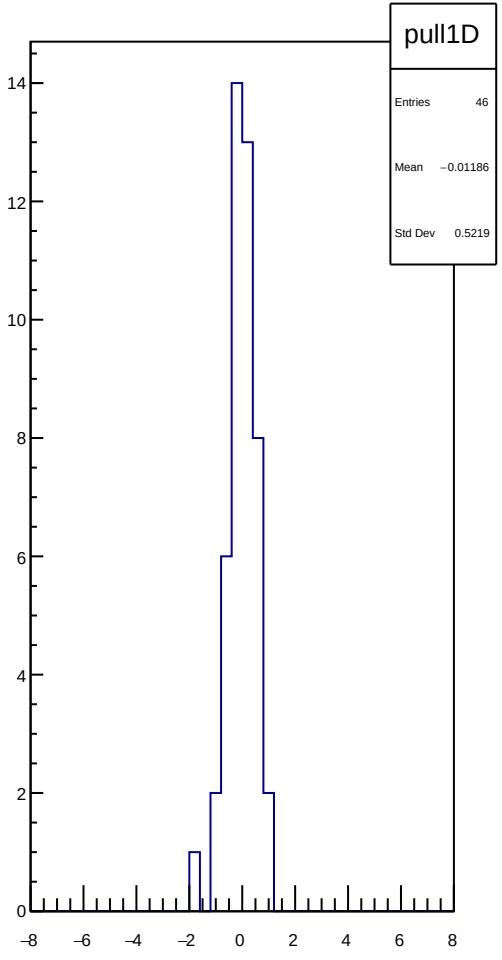

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 18.22 / 45
p0 275.2 ± 10.12
pull
Entries 46
Mean −13.13
Std Dev 17.68

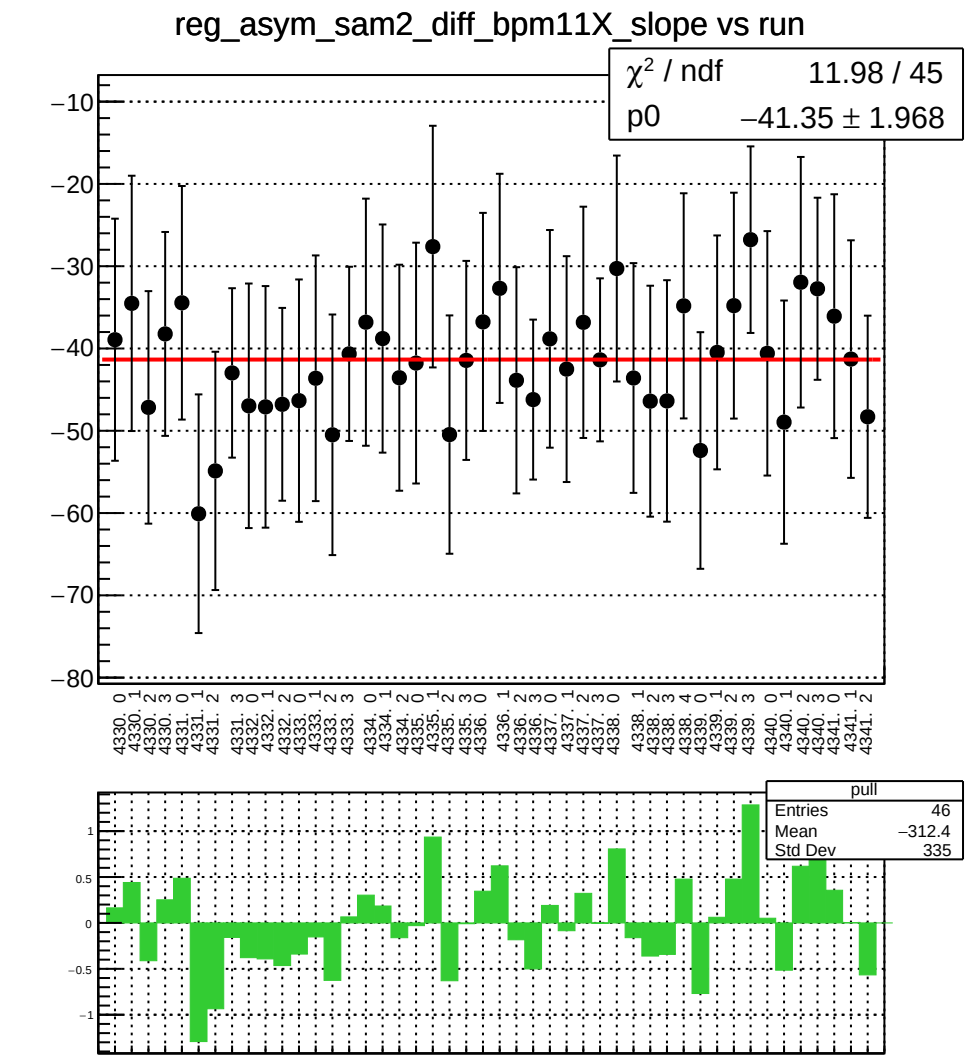

pull1D
Entries 46
Mean 0.02201
Std Dev 0.6289

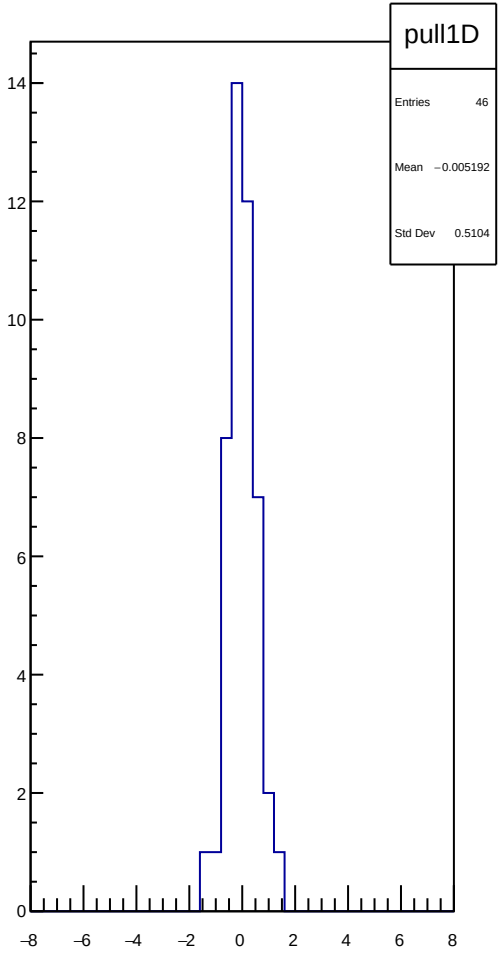

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 53.66 / 45
p0 −616 ± 1.616
−580
−590
−600
−610
−620
−630
−640
−650
−660
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 6554
Std Dev 6525
1
0
−1
−2
−3

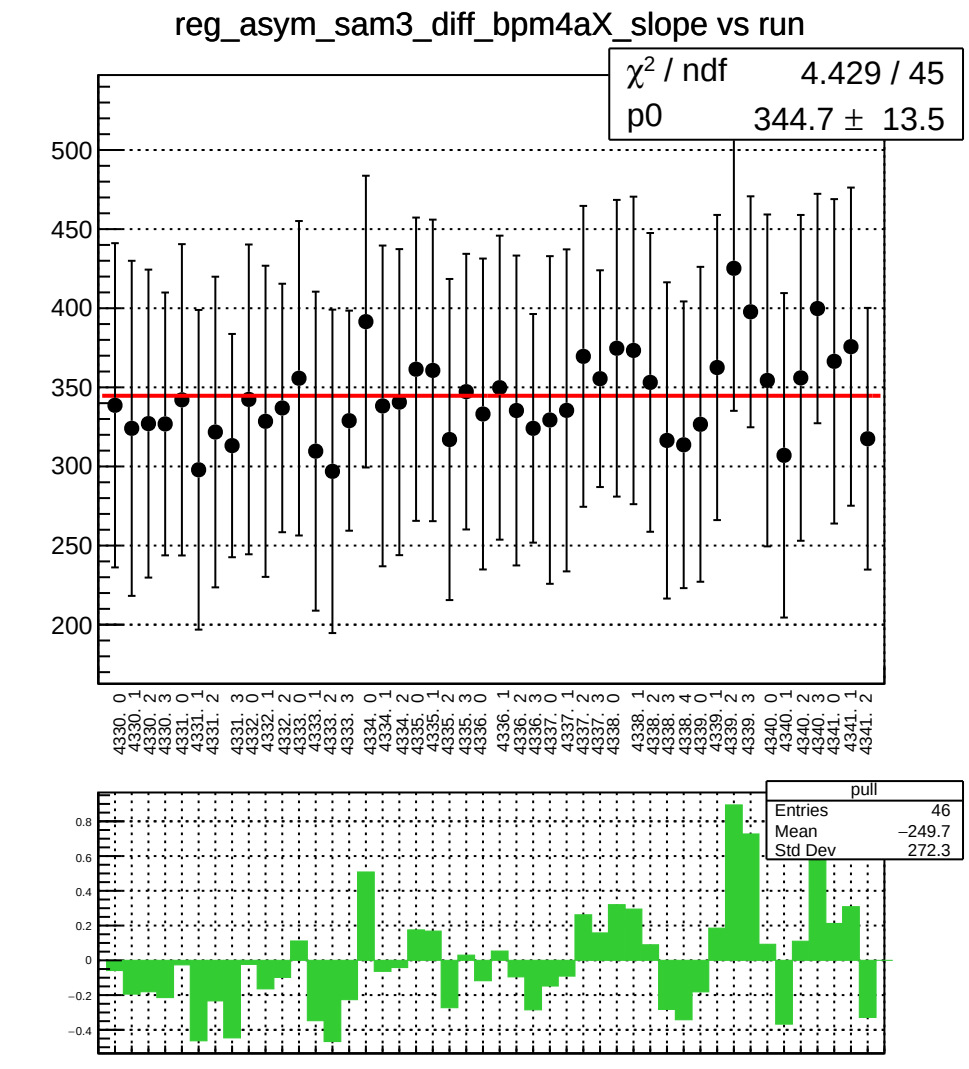

pull1D
Entries 46
Mean −0.001205
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

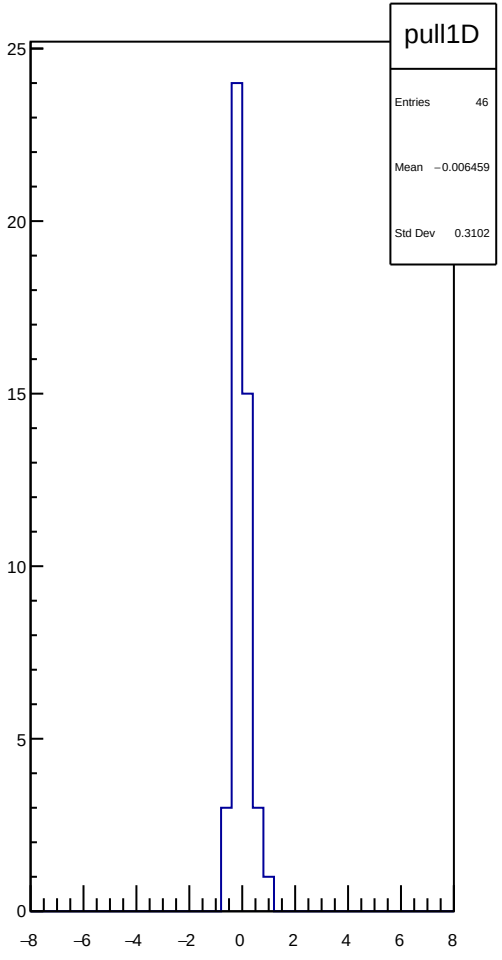

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.54 / 45
p0 −74.64 ± 10.98
50
0
−50
−100
−150
−200
−250
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 73.09
Std Dev 19.42
1
0.5
0
−0.5
−1
−1.5

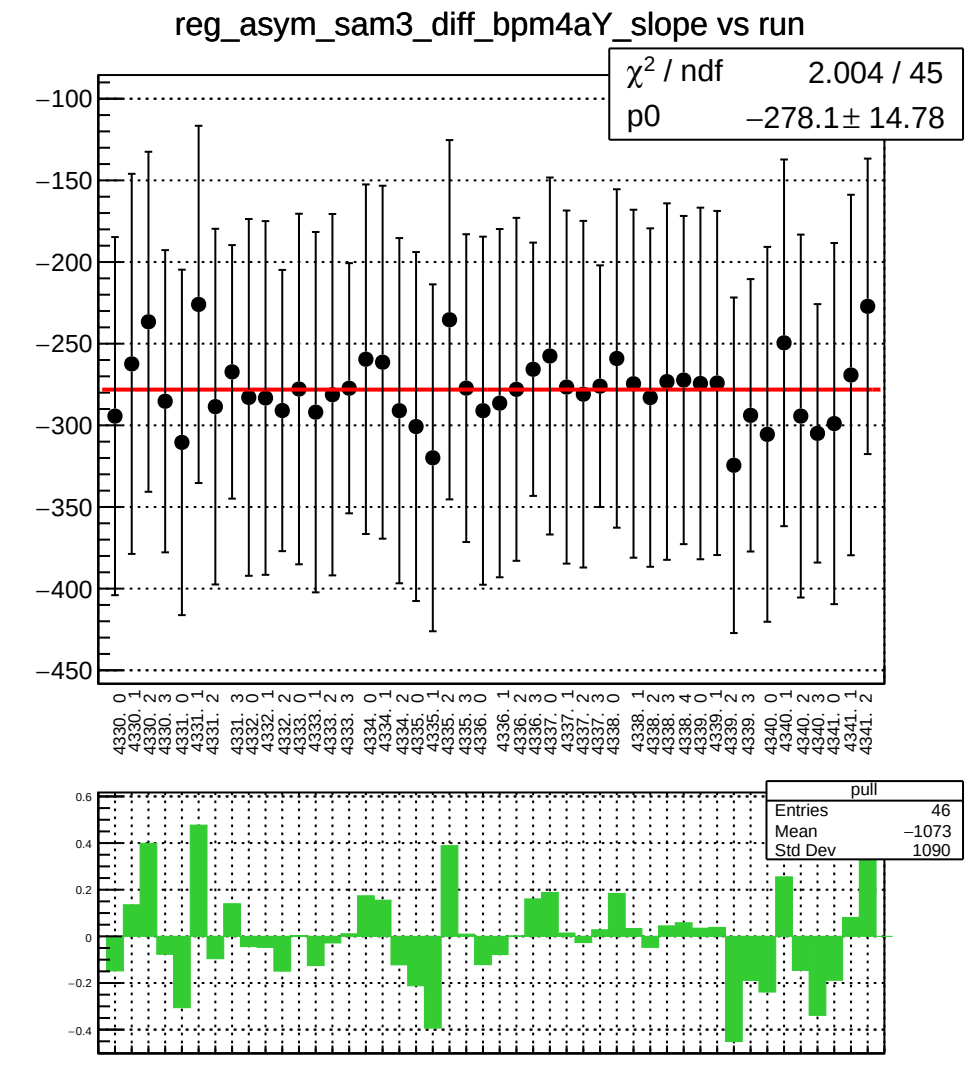

pull1D
Entries 46
Mean −0.01186
Std Dev 0.5219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

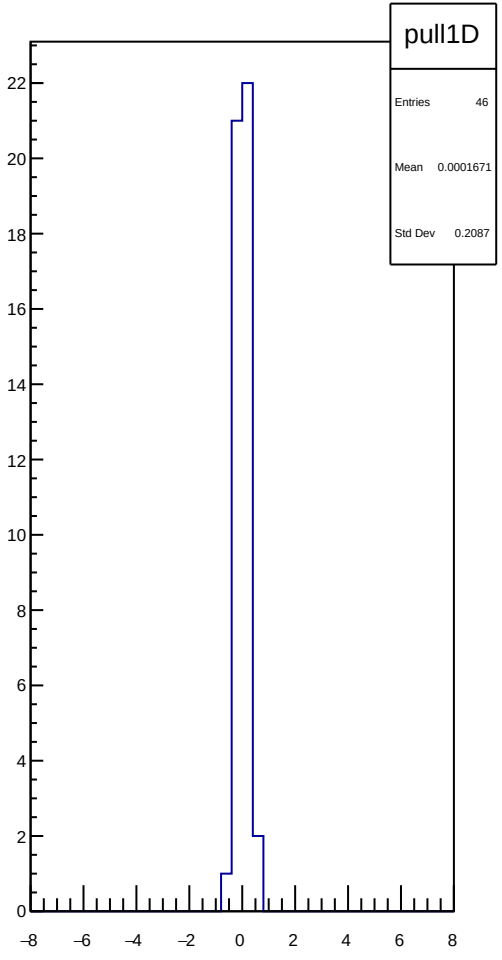

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 11.98 / 45
p0 −41.35 ± 1.968
pull
Entries 46
Mean −312.4
Std Dev 335

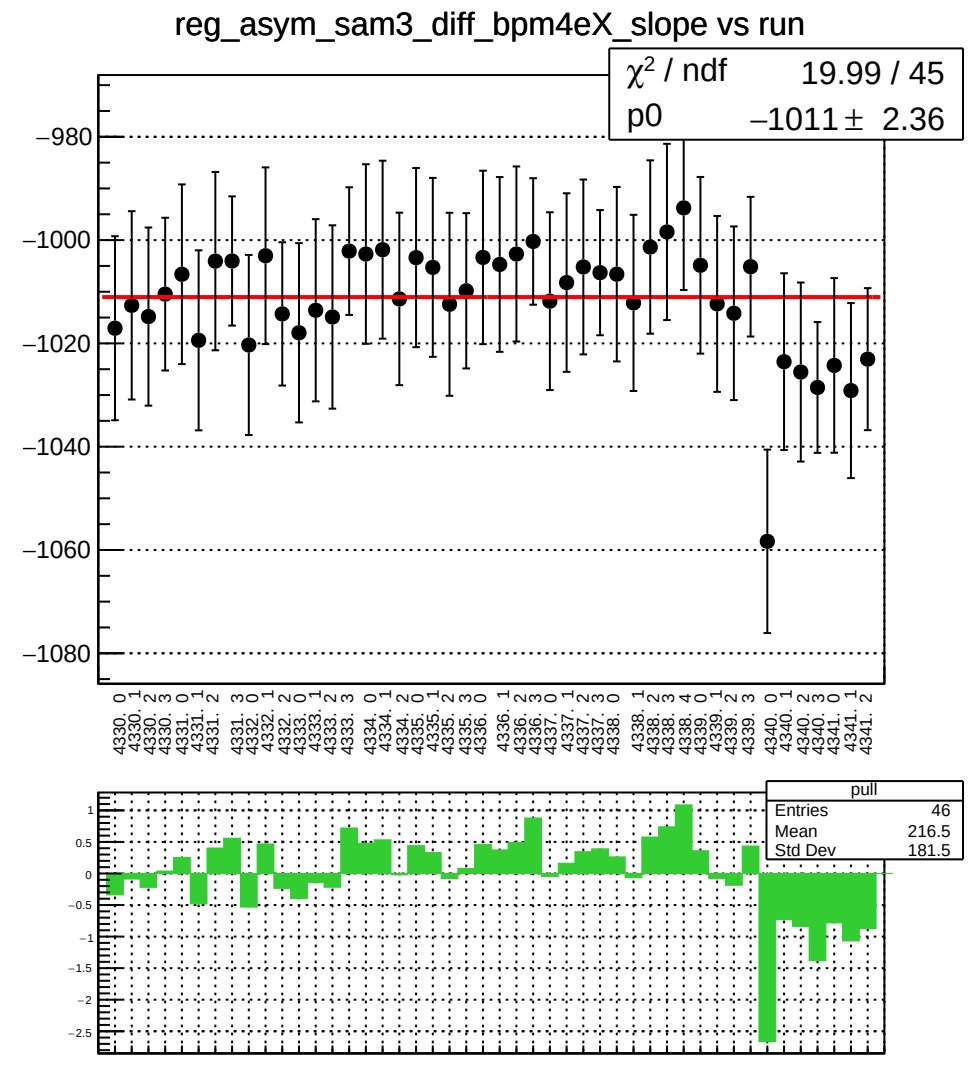

pull1D
Entries 46
Mean −0.005192
Std Dev 0.5104

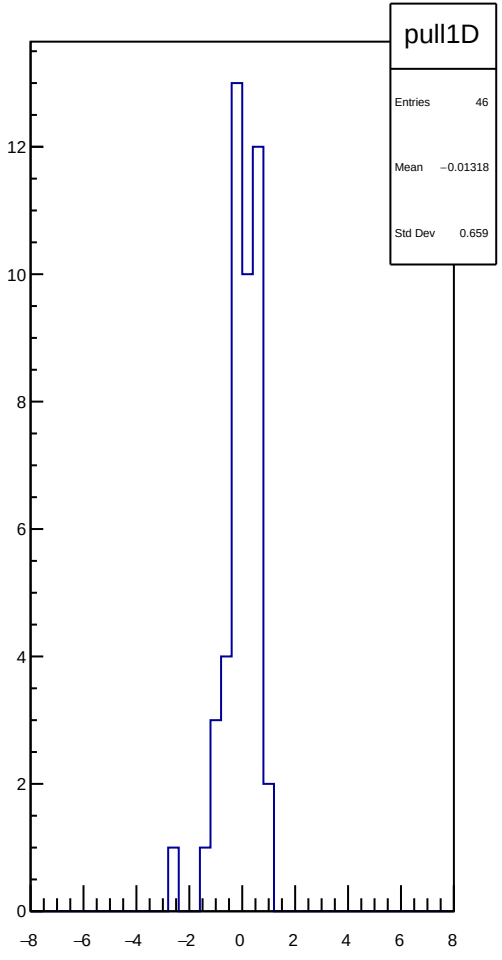

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 4.429 / 45
p0 344.7 ± 13.5
500
450
400
350
300
250
200
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −249.7
Std Dev 272.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4

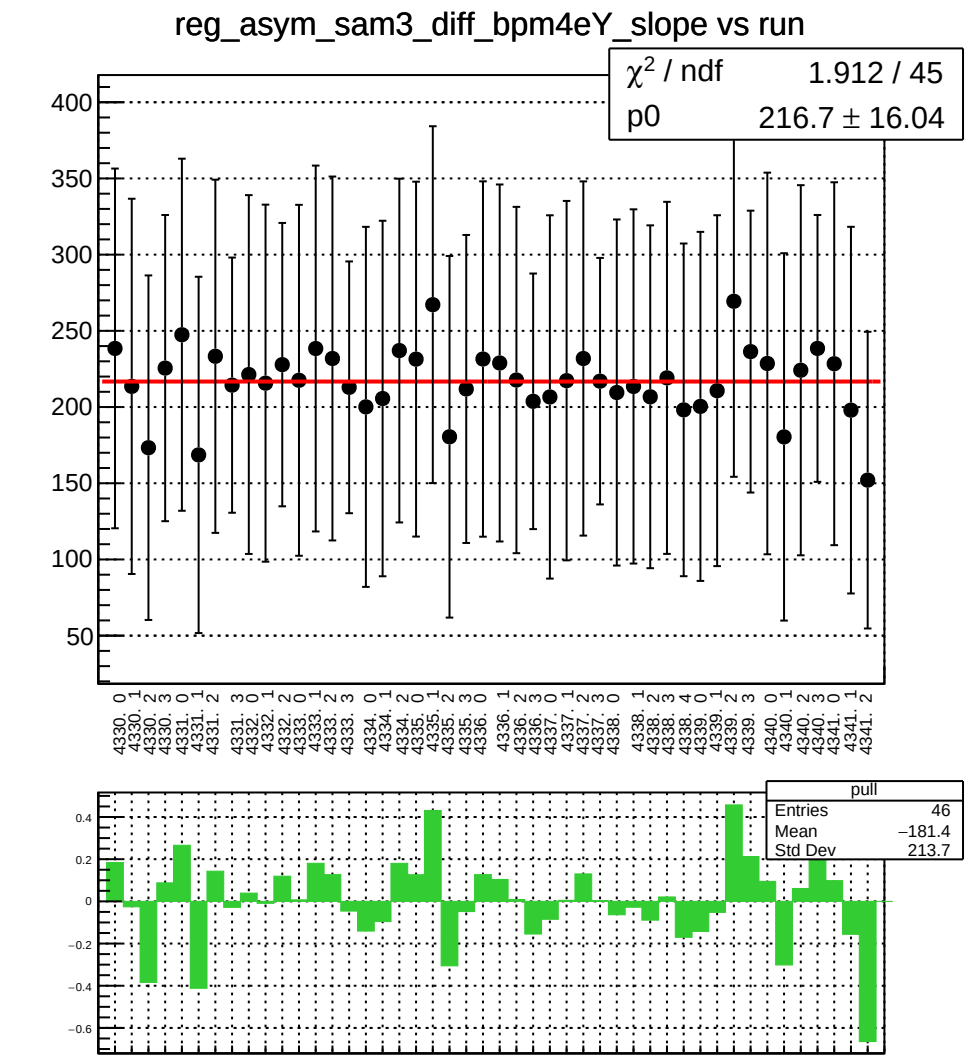

pull1D
Entries 46
Mean −0.006459
Std Dev 0.3102
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

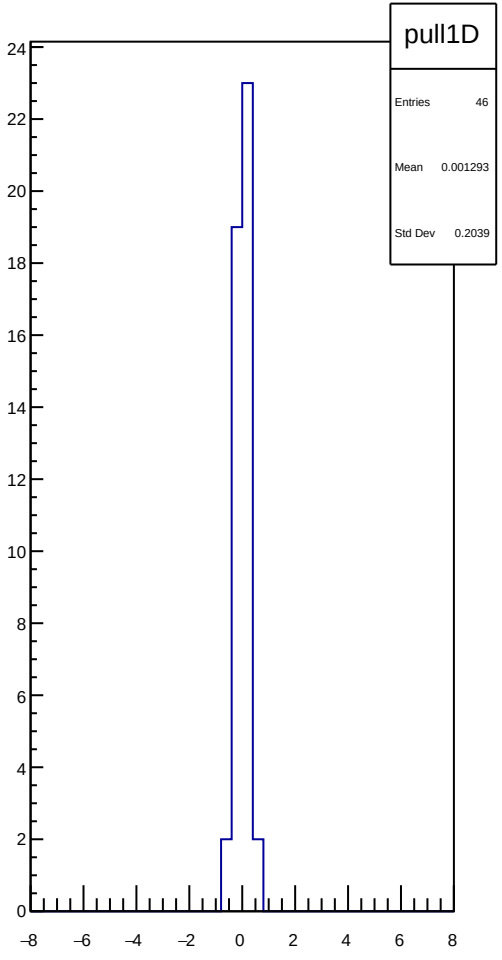

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.004 / 45
p0 −278.1± 14.78
pull
Entries 46
Mean −1073
Std Dev 1090

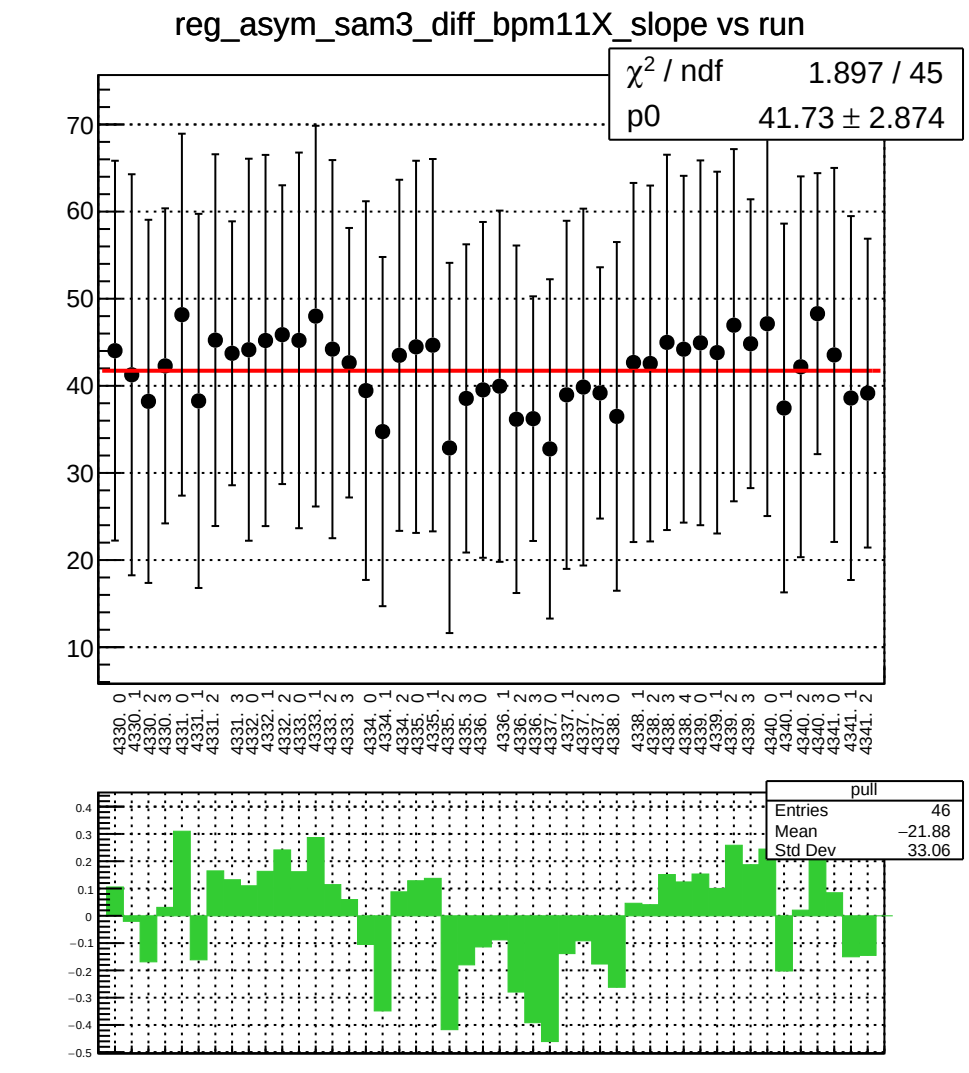

pull1D
Entries 46
Mean 0.0001671
Std Dev 0.2087

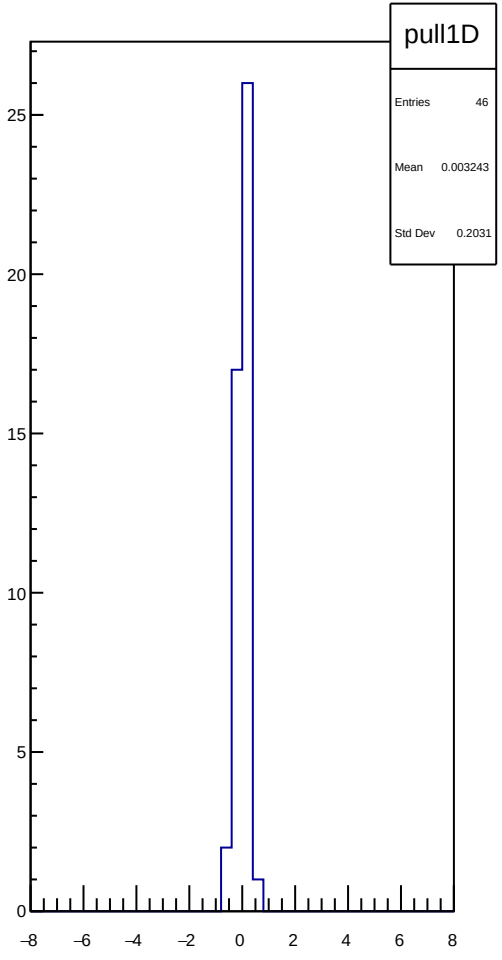

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 19.99 / 45
p0 −1011 ± 2.36
−980
−1000
−1020
−1040
−1060
−1080
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 216.5
Std Dev 181.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

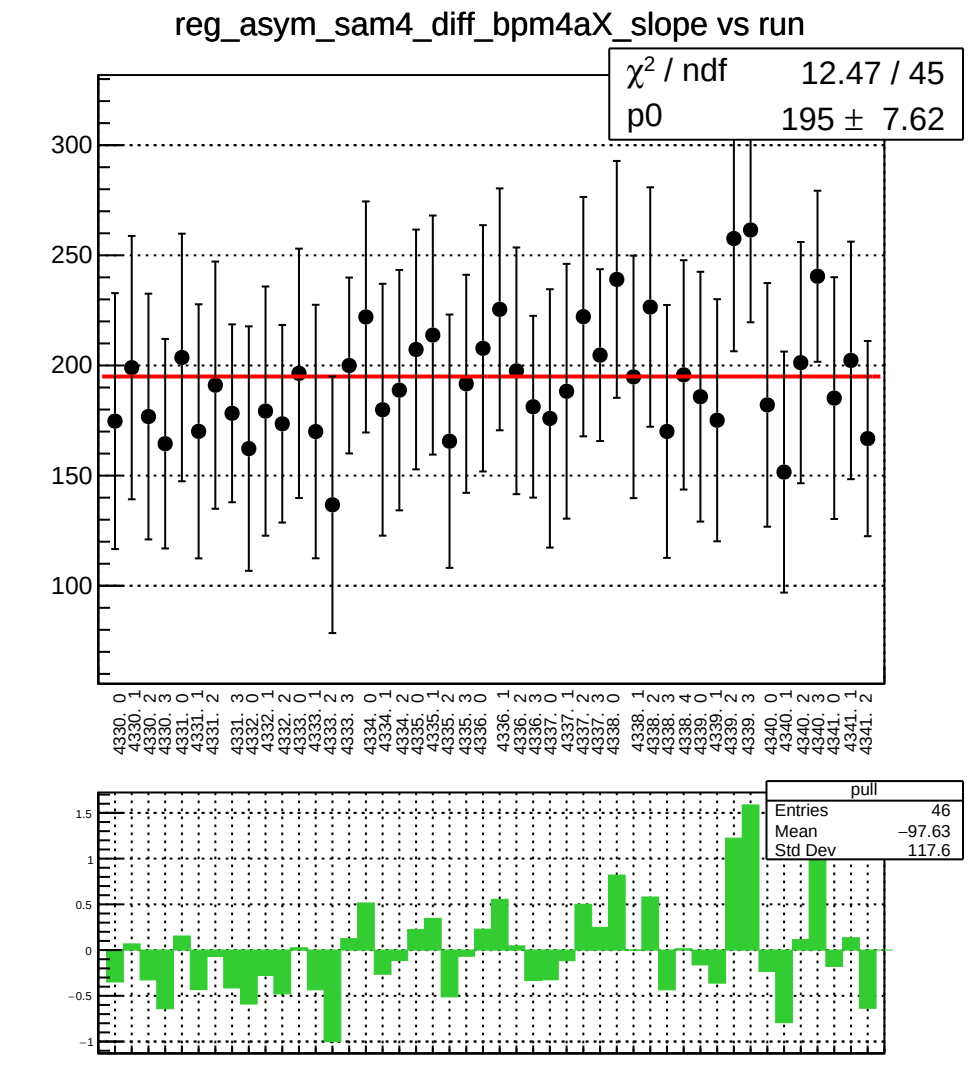

pull1D
Entries 46
Mean −0.01318
Std Dev 0.659
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

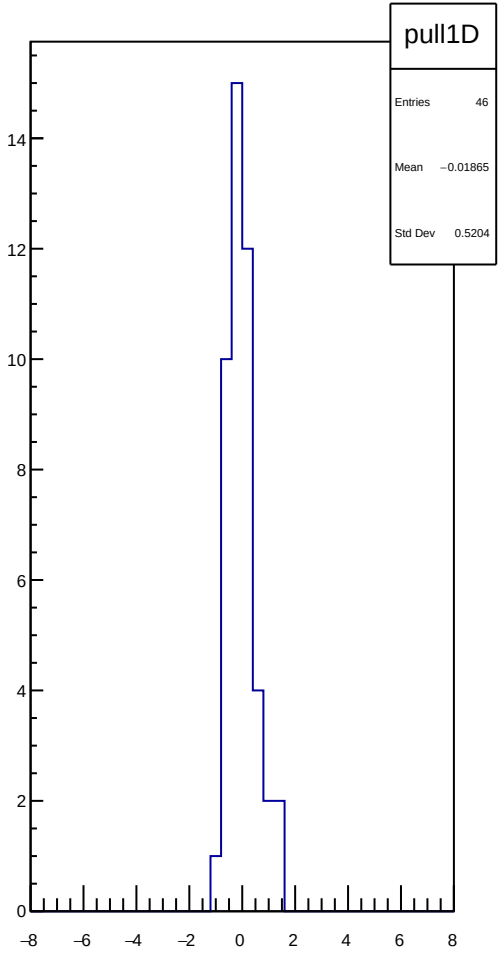

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.912 / 45
p0 216.7 ± 16.04
pull
Entries 46
Mean −181.4
Std Dev 213.7

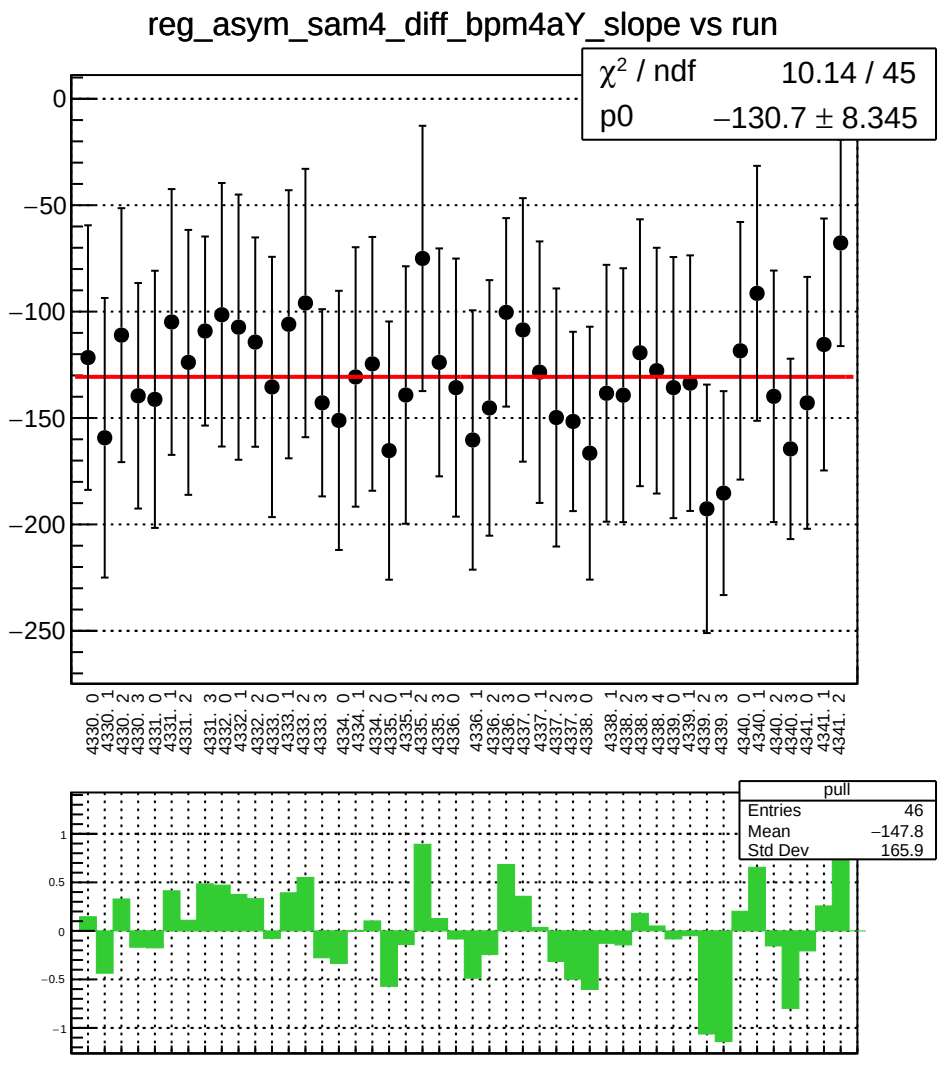

pull1D
Entries 46
Mean 0.001293
Std Dev 0.2039

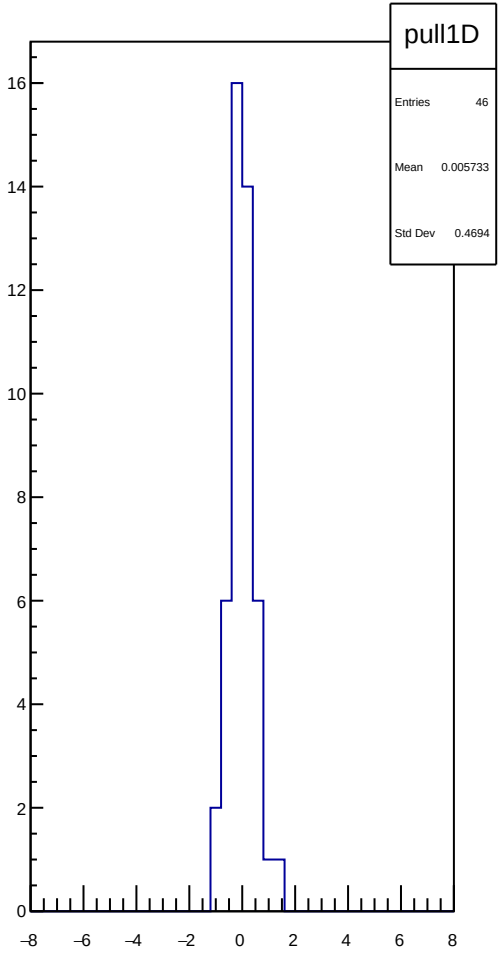

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.897 / 45
p0 41.73 ± 2.874
pull
Entries 46
Mean −21.88
Std Dev 33.06

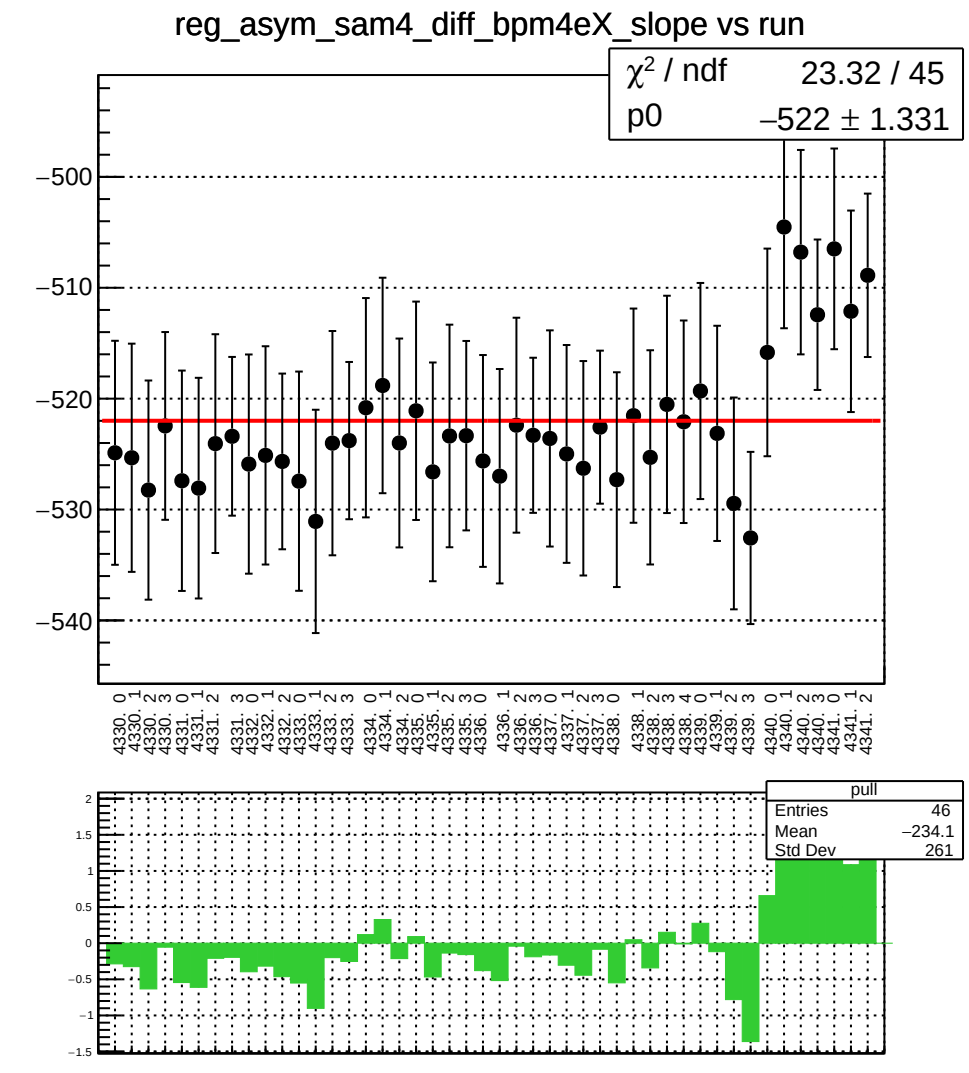

pull1D
Entries 46
Mean 0.003243
Std Dev 0.2031

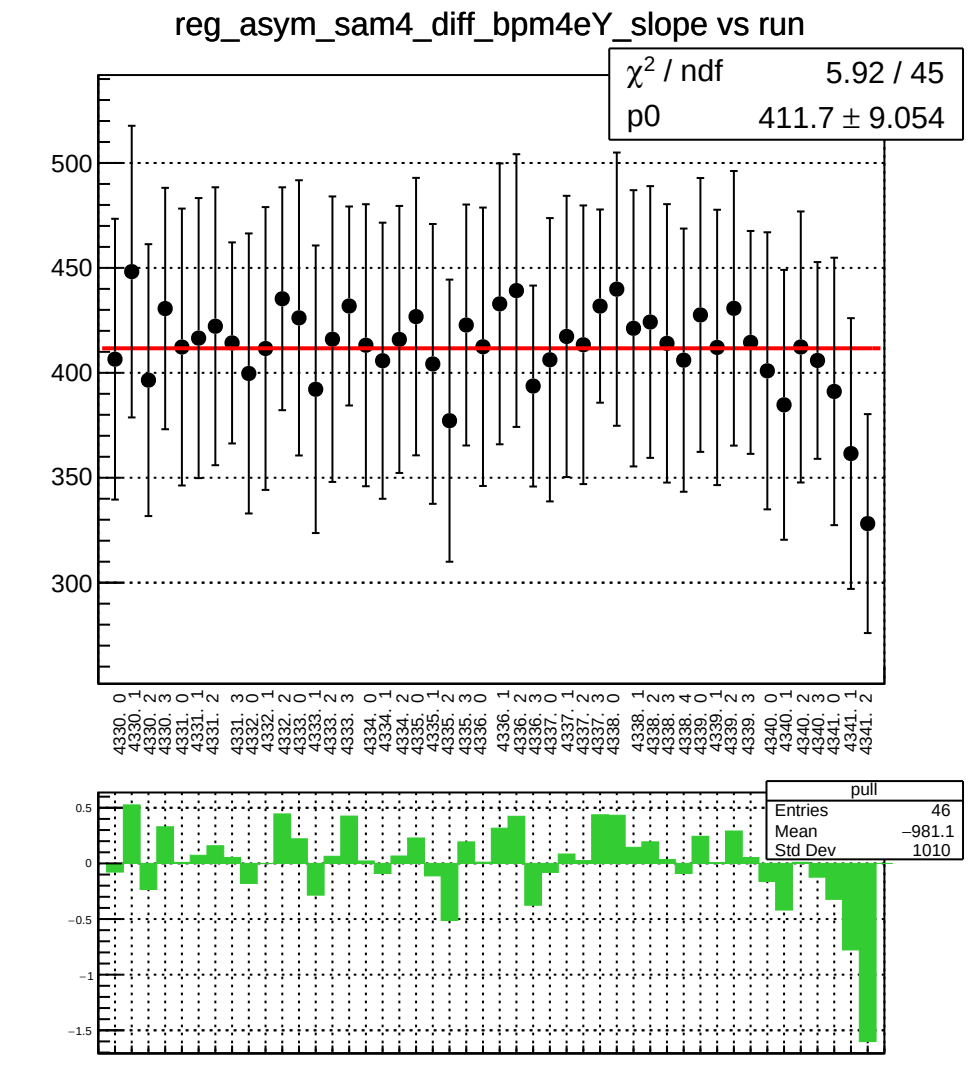

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 12.47 / 45
p0 195 ± 7.62
pull
Entries 46
Mean −97.63
Std Dev 117.6

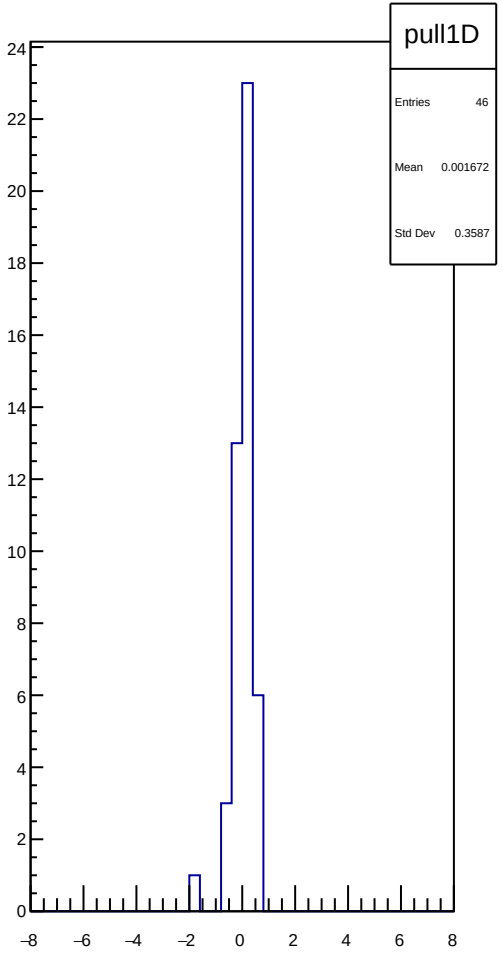

pull1D
Entries 46
Mean −0.01865
Std Dev 0.5204

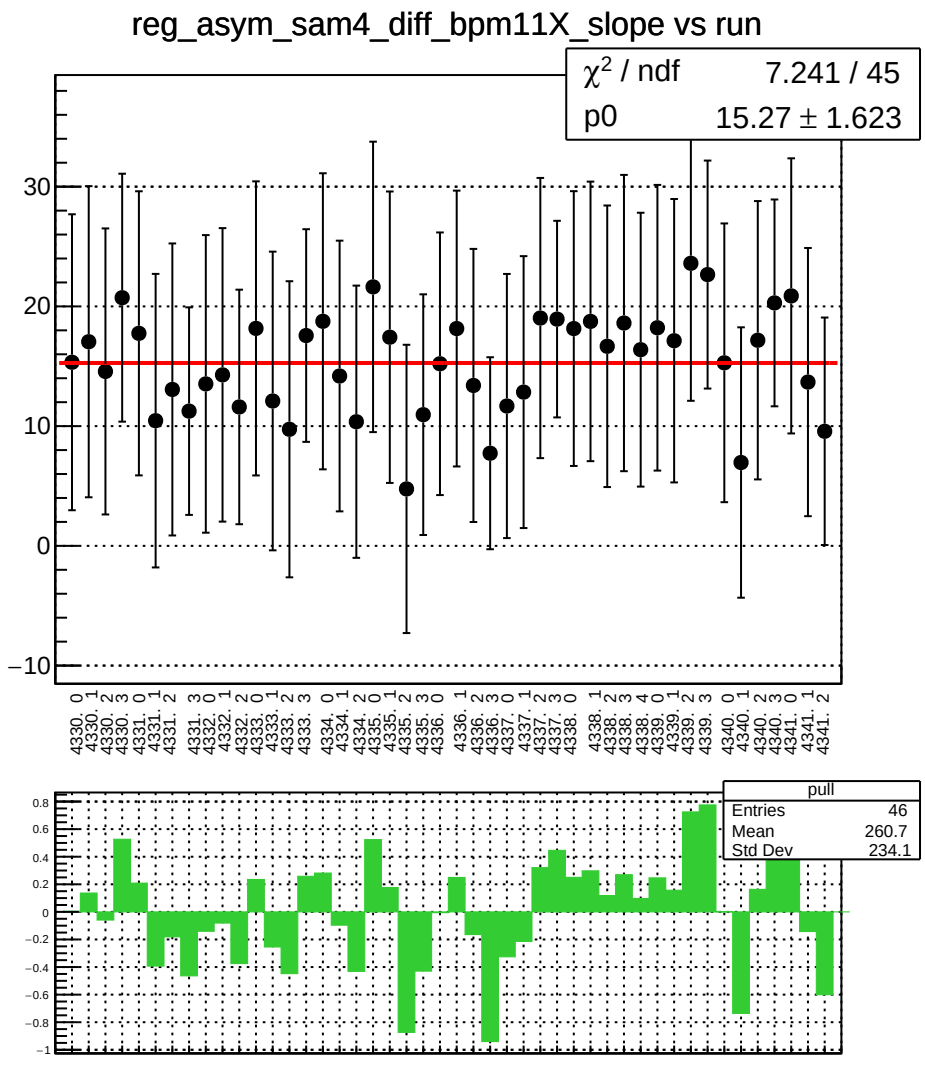

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 10.14 / 45
p0 −130.7 ± 8.345
pull
Entries 46
Mean −147.8
Std Dev 165.9

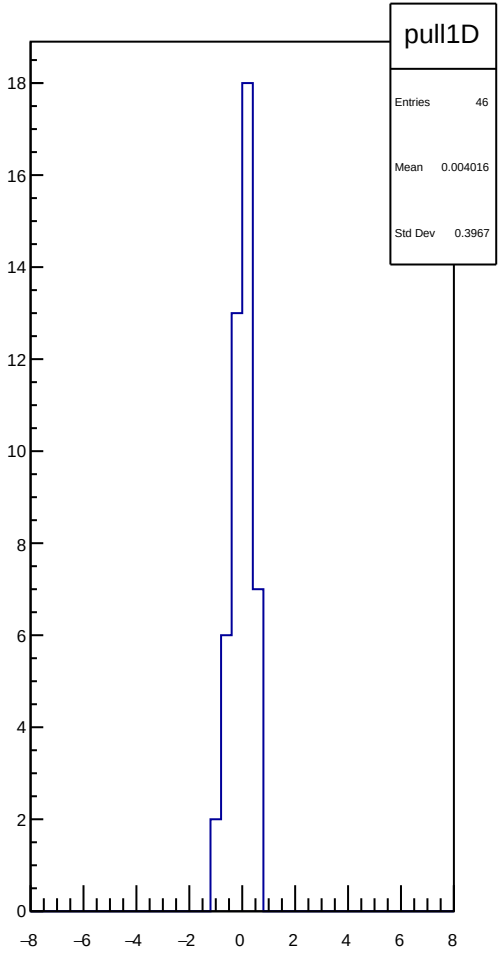

pull1D
Entries 46
Mean 0.005733
Std Dev 0.4694

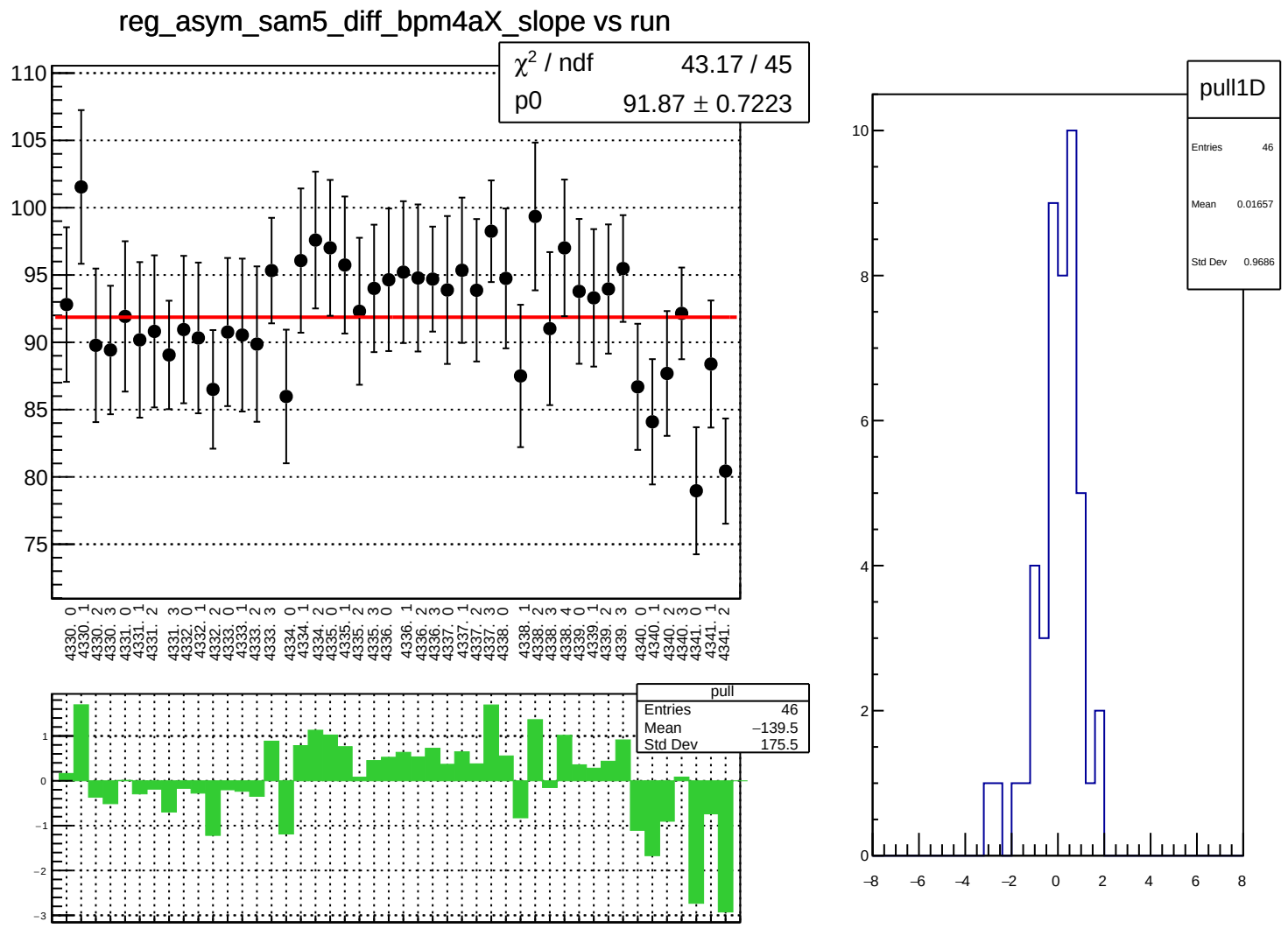

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 23.32 / 45
p0 −522 ± 1.331
−500
−510
−520
−530
−540
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −234.1
Std Dev 261
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.02111
Std Dev 0.7117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

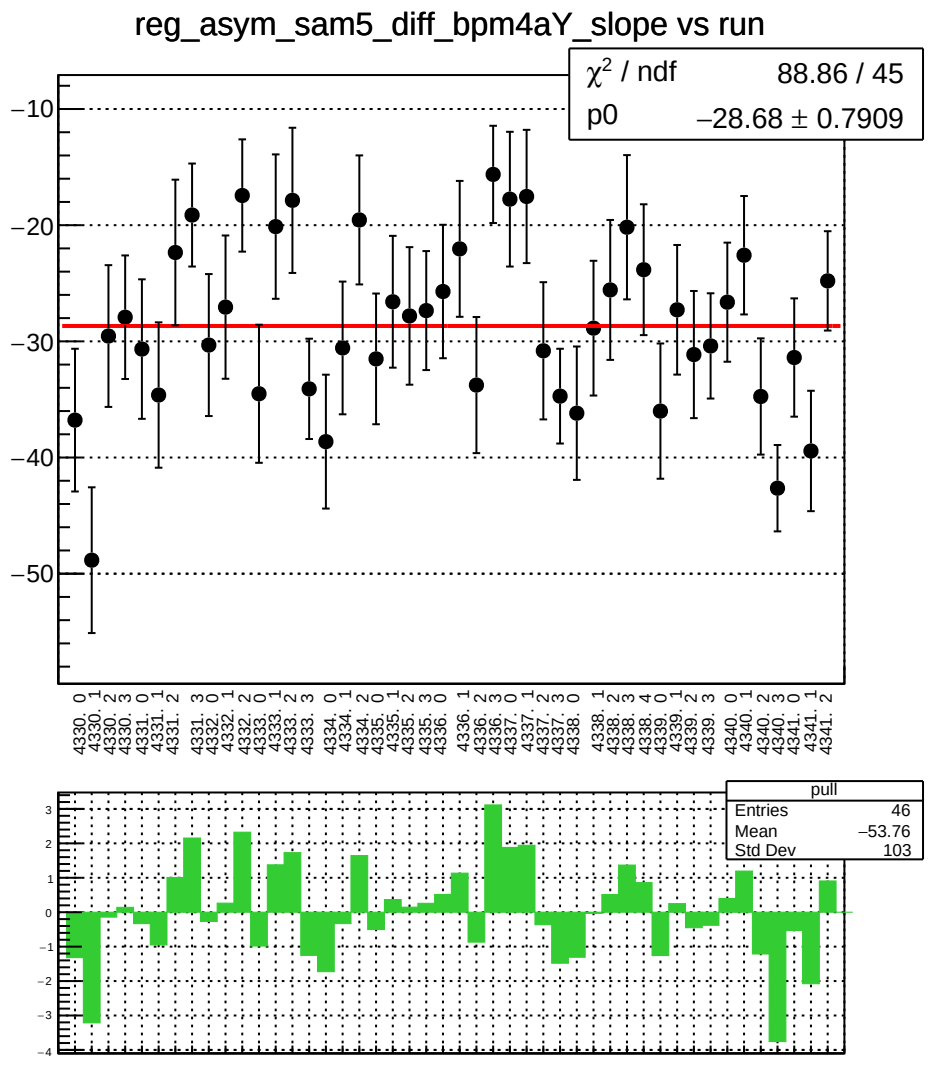

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 5.92 / 45
p0 411.7 ± 9.054
500
450
400
350
300
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −981.1
Std Dev 1010
0.5
0
−0.5
−1
−1.5

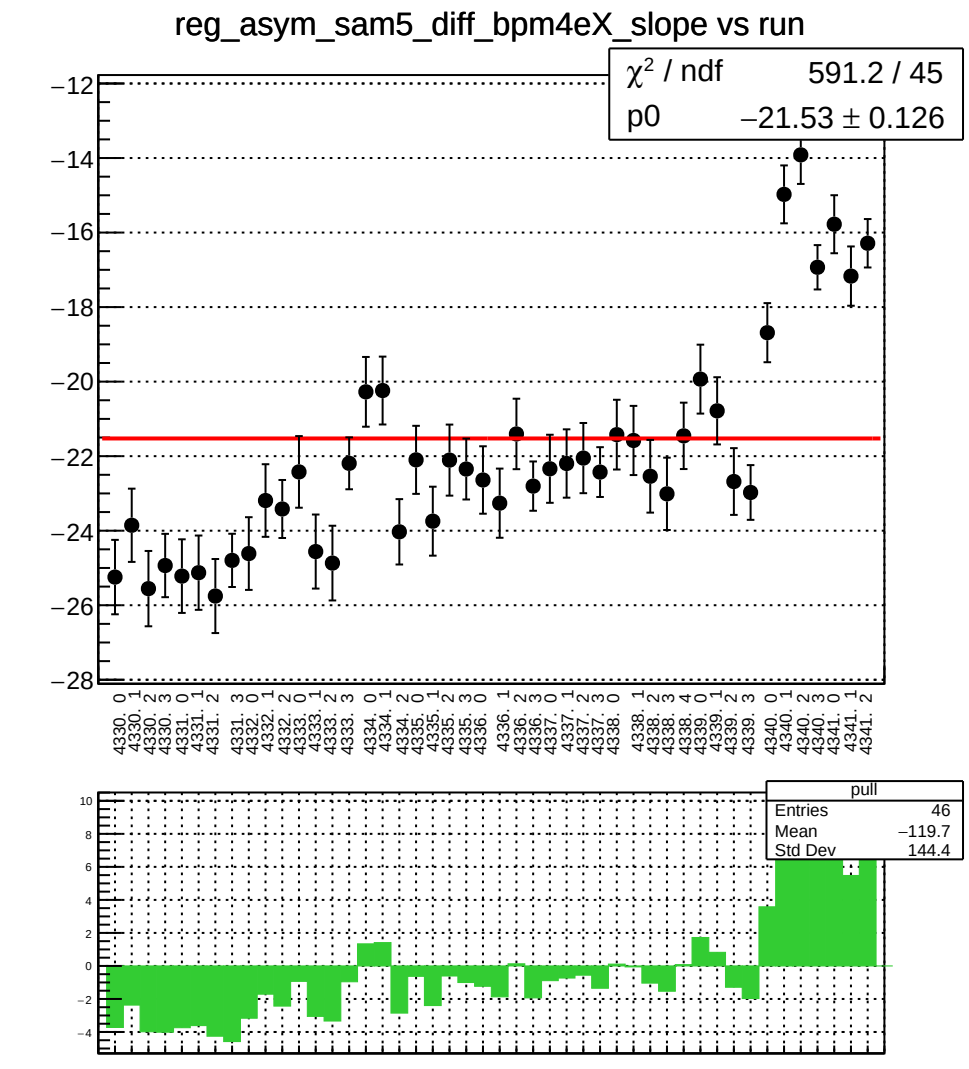

pull1D
Entries 46
Mean 0.001672
Std Dev 0.3587
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

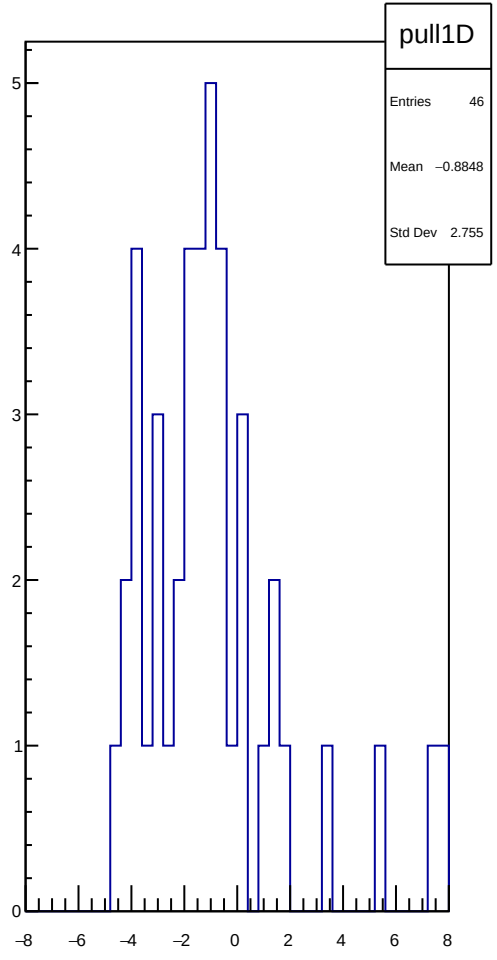

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 7.241 / 45
p0 15.27 ± 1.623
pull
Entries 46
Mean 260.7
Std Dev 234.1

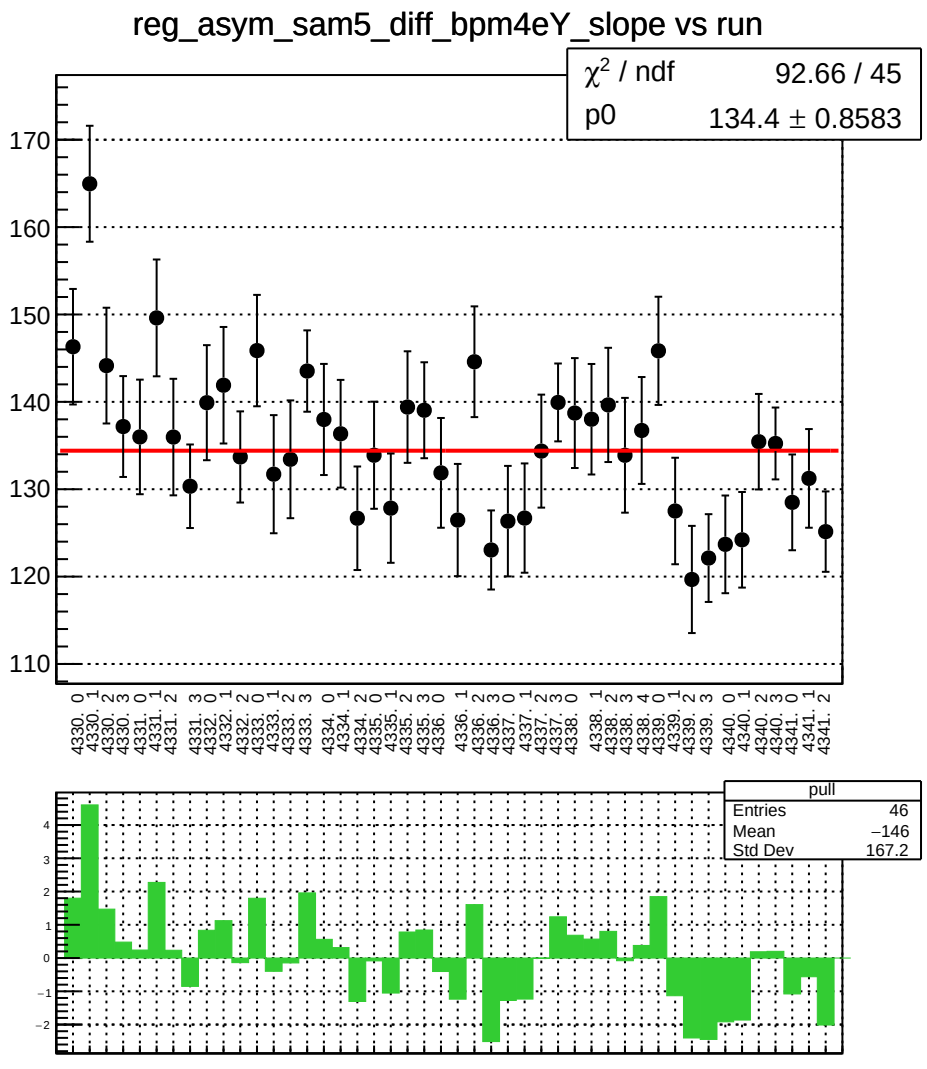

pull1D
Entries 46
Mean 0.004016
Std Dev 0.3967

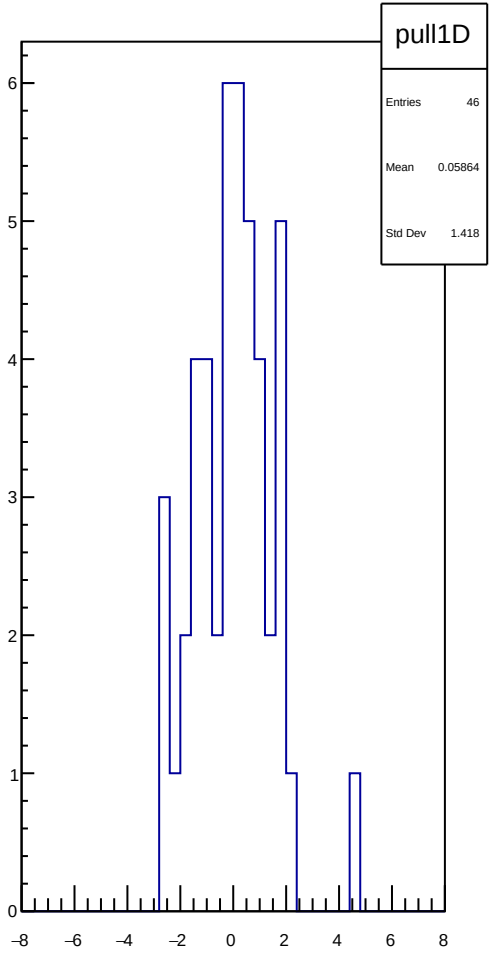

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 43.17 / 45
p0 91.87 ± 0.7223
pull
Entries 46
Mean −139.5
Std Dev 175.5
pull1D
Entries 46
Mean 0.01657
Std Dev 0.9686

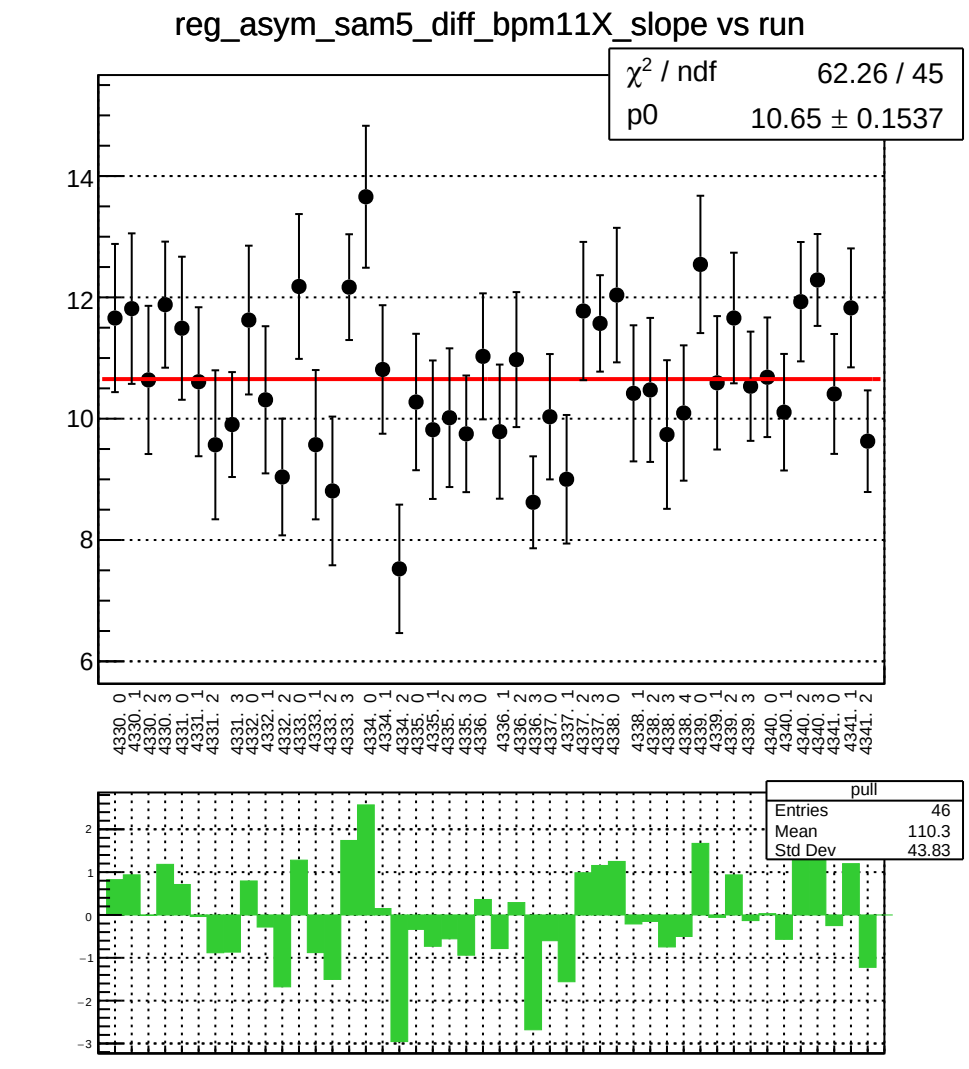

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 88.86 / 45
p0 −28.68 ± 0.7909
−10
−20
−30
−40
−50
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −53.76
Std Dev 103
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean 0.0165
Std Dev 1.39
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

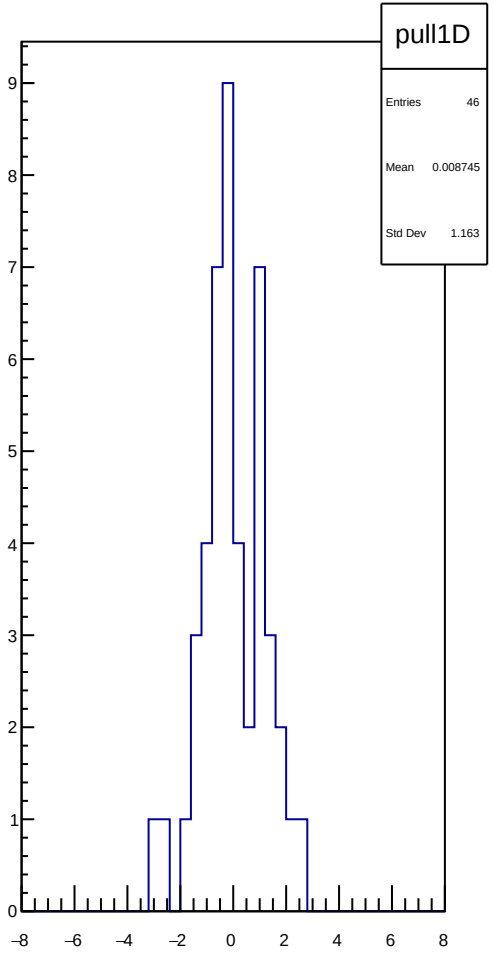

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 591.2 / 45
p0 −21.53 ± 0.126
pull
Entries 46
Mean −119.7
Std Dev 144.4

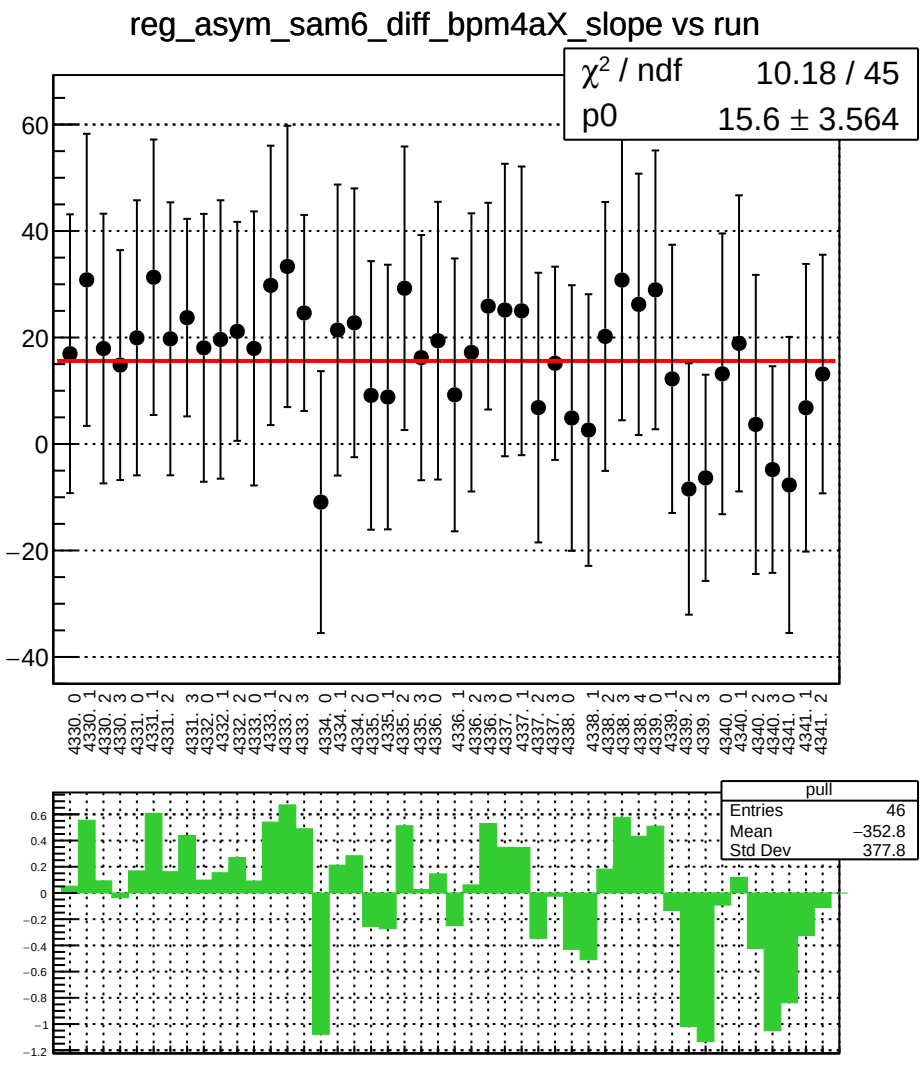

pull1D
Entries 46
Mean −0.8848
Std Dev 2.755

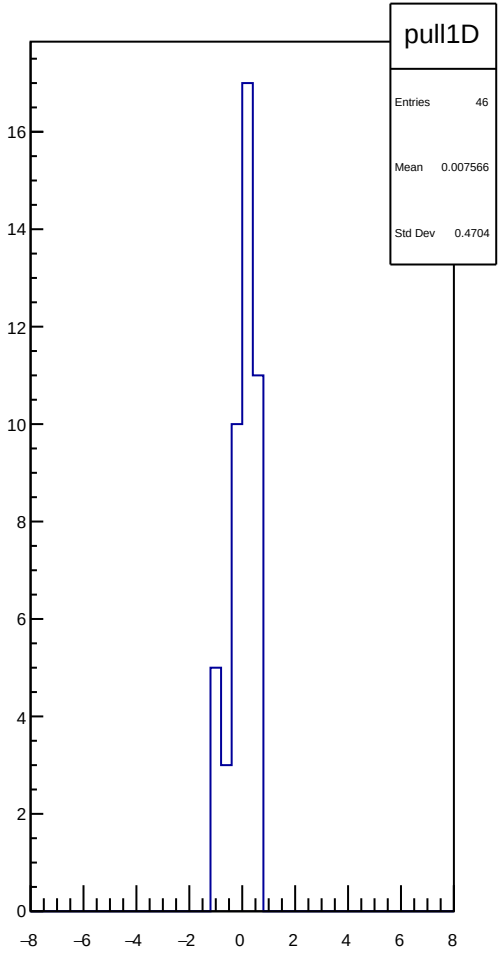

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 92.66 / 45
p0 134.4 ± 0.8583
pull
Entries 46
Mean −146
Std Dev 167.2

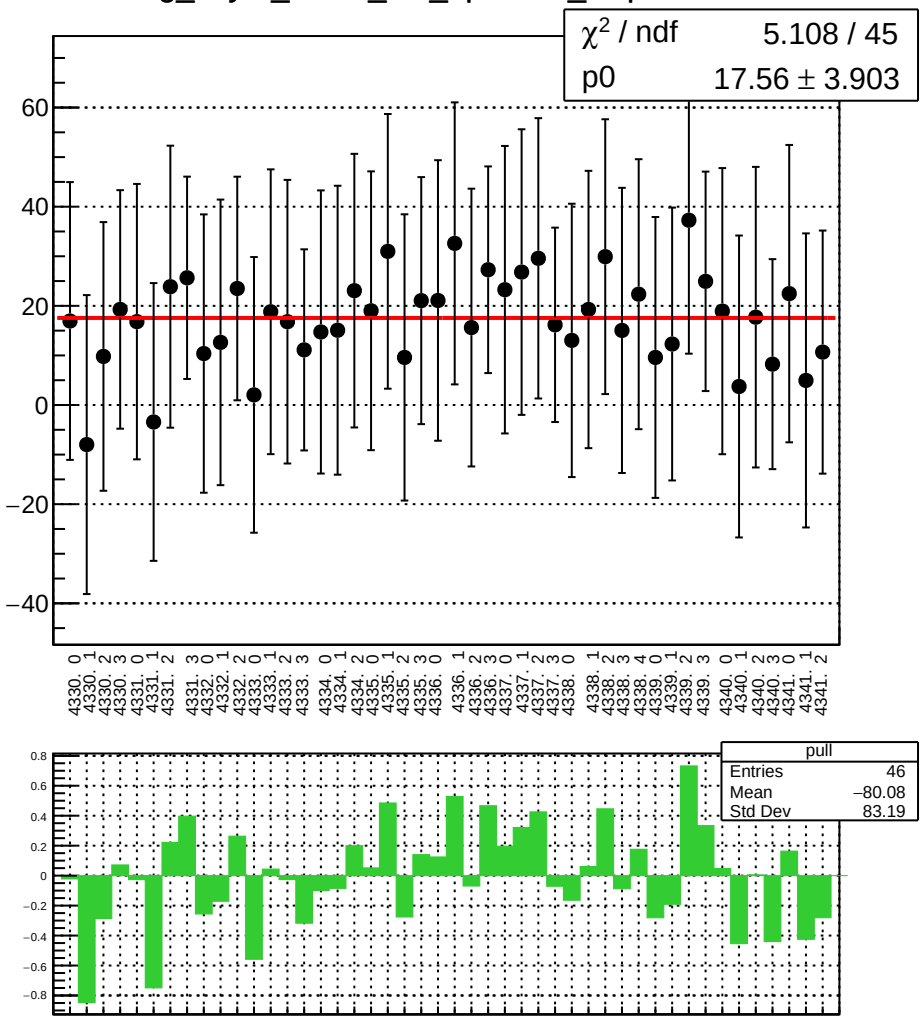

pull1D
Entries 46
Mean 0.05864
Std Dev 1.418

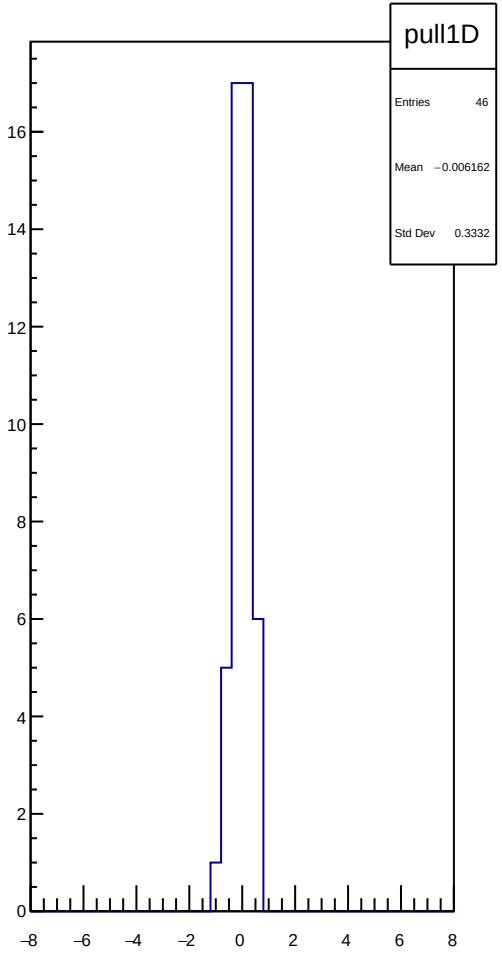

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 62.26 / 45
p0 10.65 ± 0.1537
14
12
10
8
6
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 110.3
Std Dev 43.83
2
1
0
−1
−2
−3

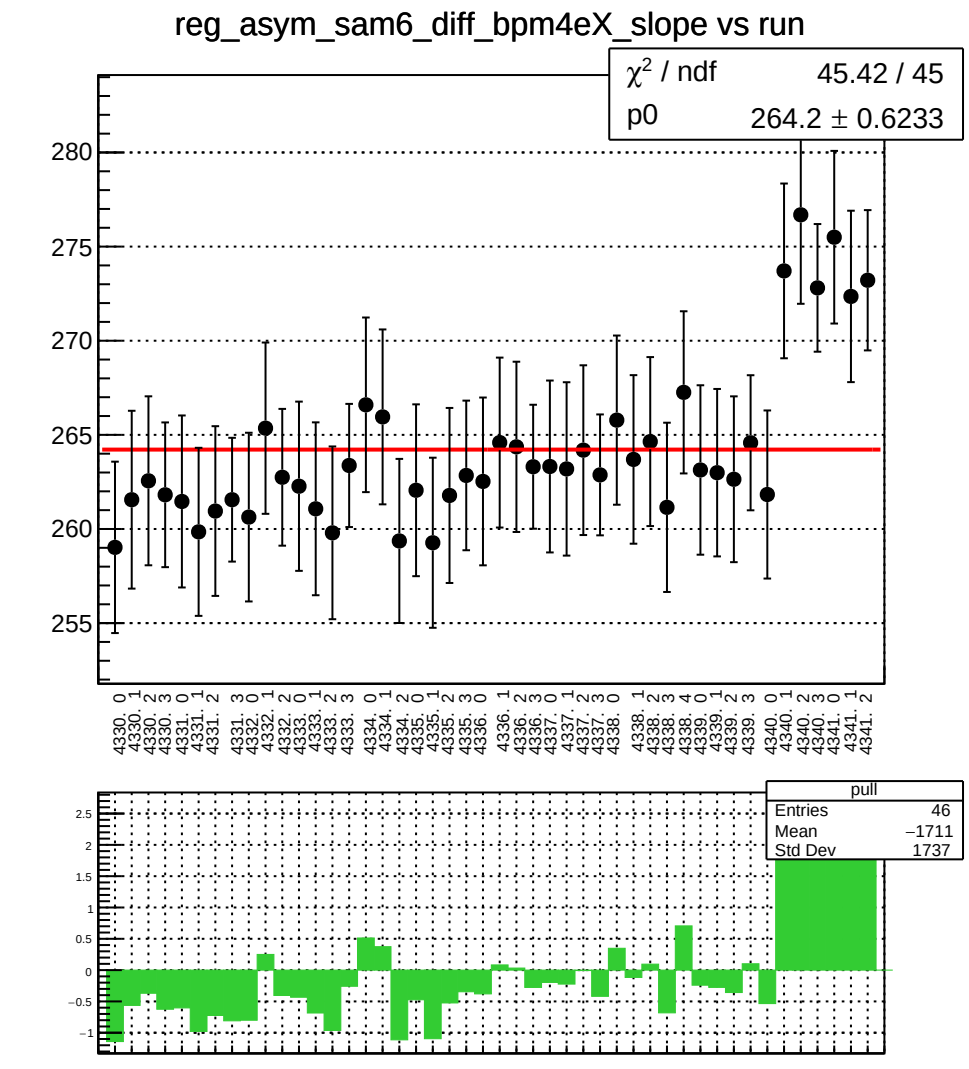

pull1D
Entries 46
Mean 0.008745
Std Dev 1.163
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

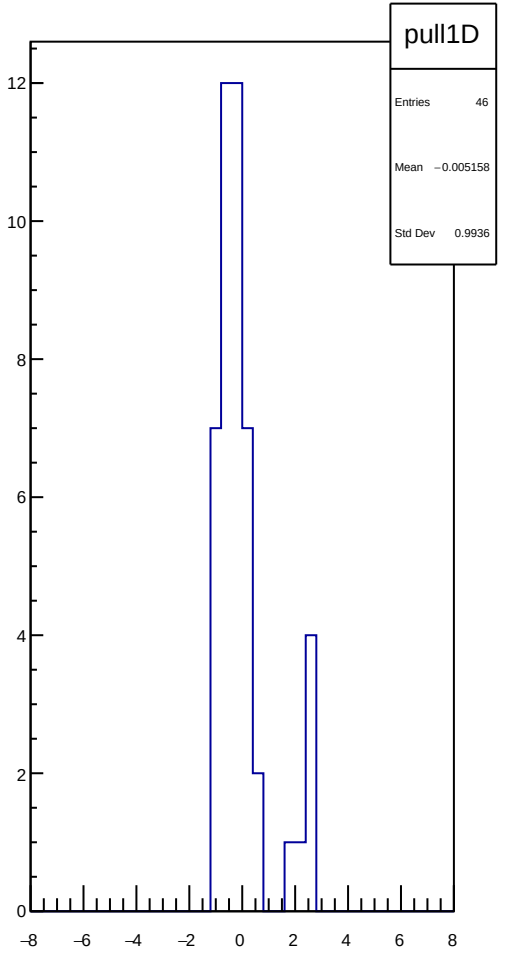

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 10.18 / 45
p0 15.6 ± 3.564
pull
Entries 46
Mean −352.8
Std Dev 377.8

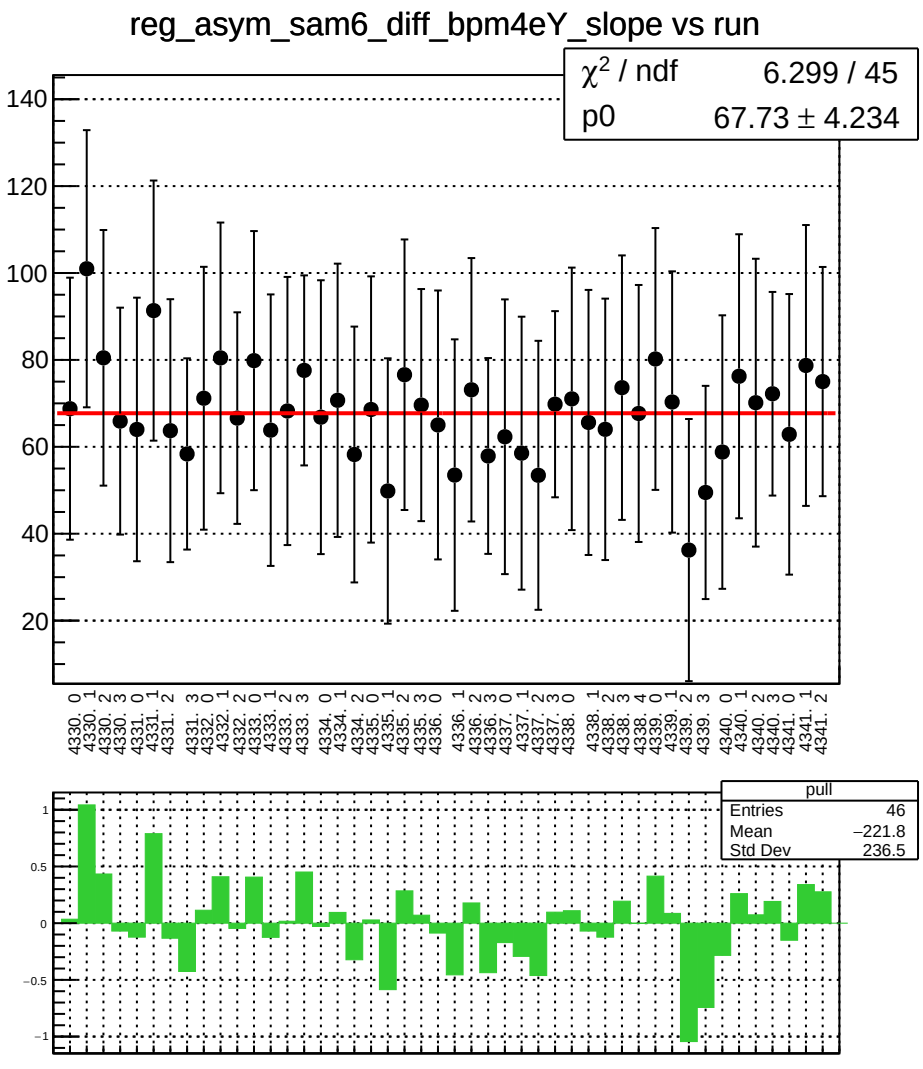

pull1D
Entries 46
Mean 0.007566
Std Dev 0.4704

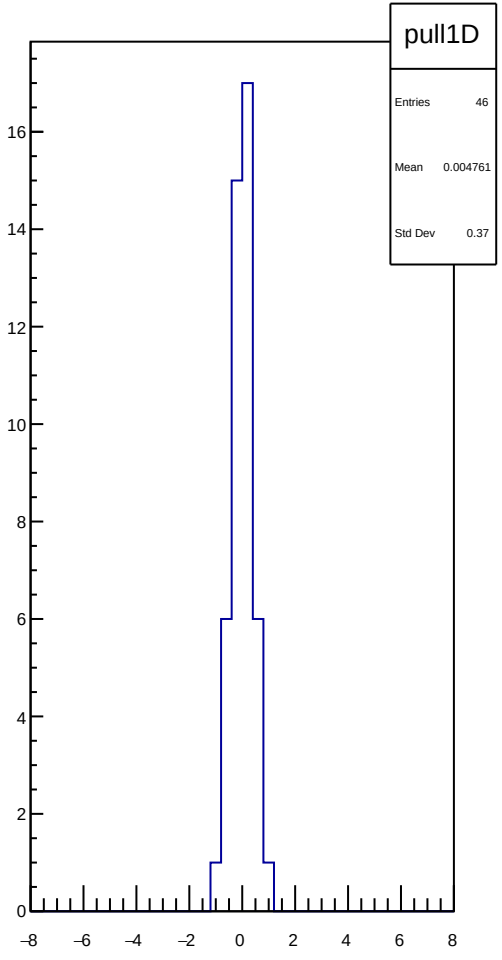

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 5.108 / 45
p0 17.56 ± 3.903
pull
Entries 46
Mean −80.08
Std Dev 83.19

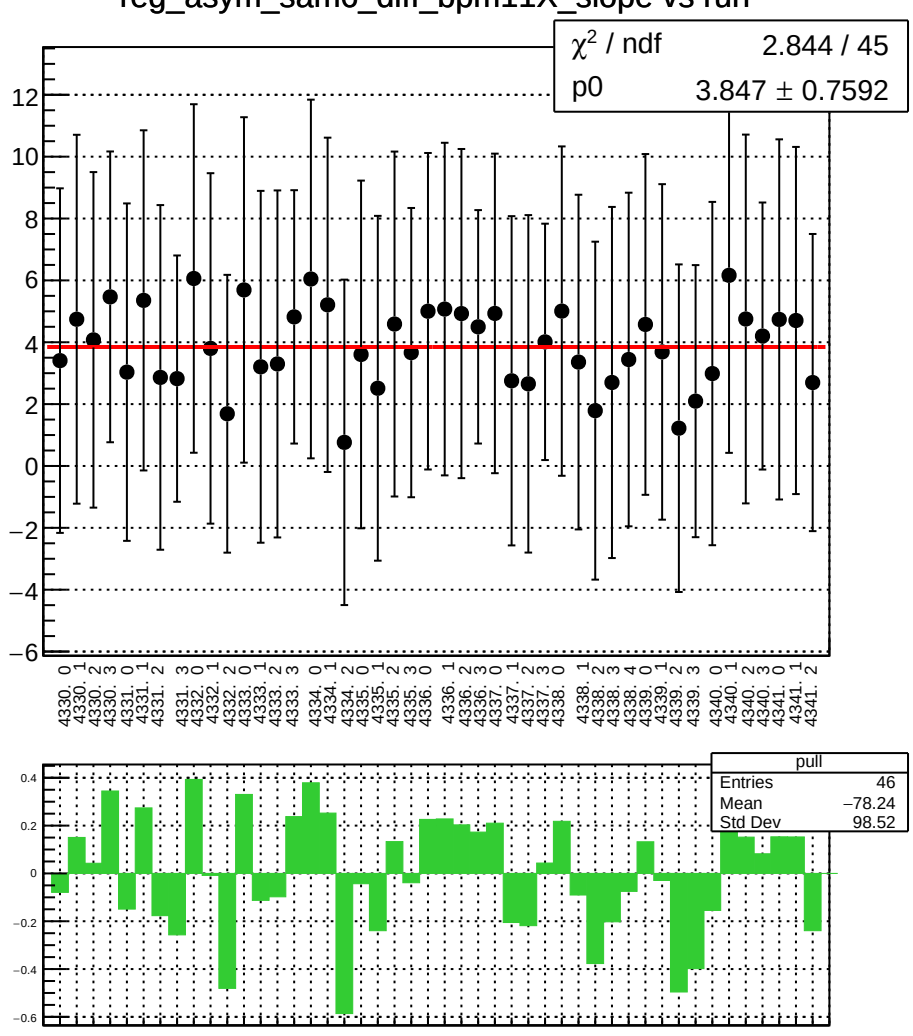

pull1D
Entries 46
Mean −0.006162
Std Dev 0.3332

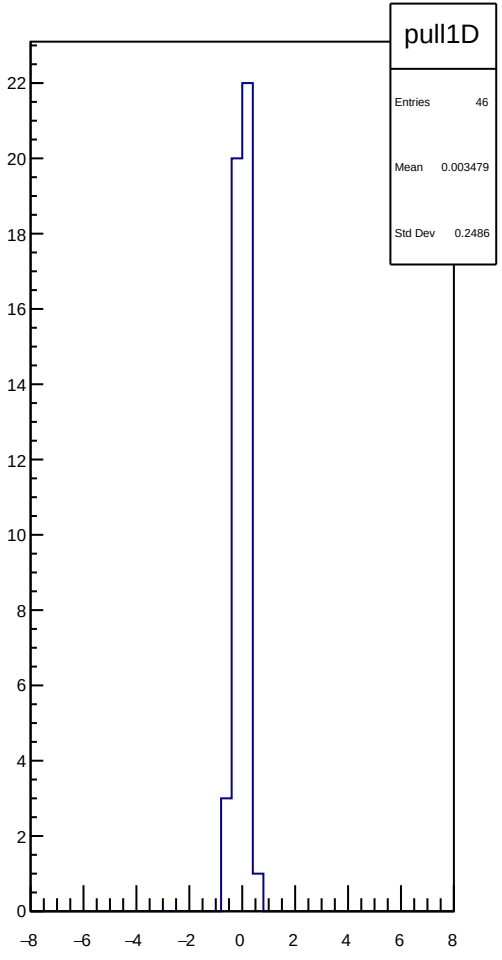

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 45.42 / 45
p0 264.2 ± 0.6233
280
275
270
265
260
255
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1711
Std Dev 1737
2.5
2
1.5
1
0.5
0
−0.5
−1

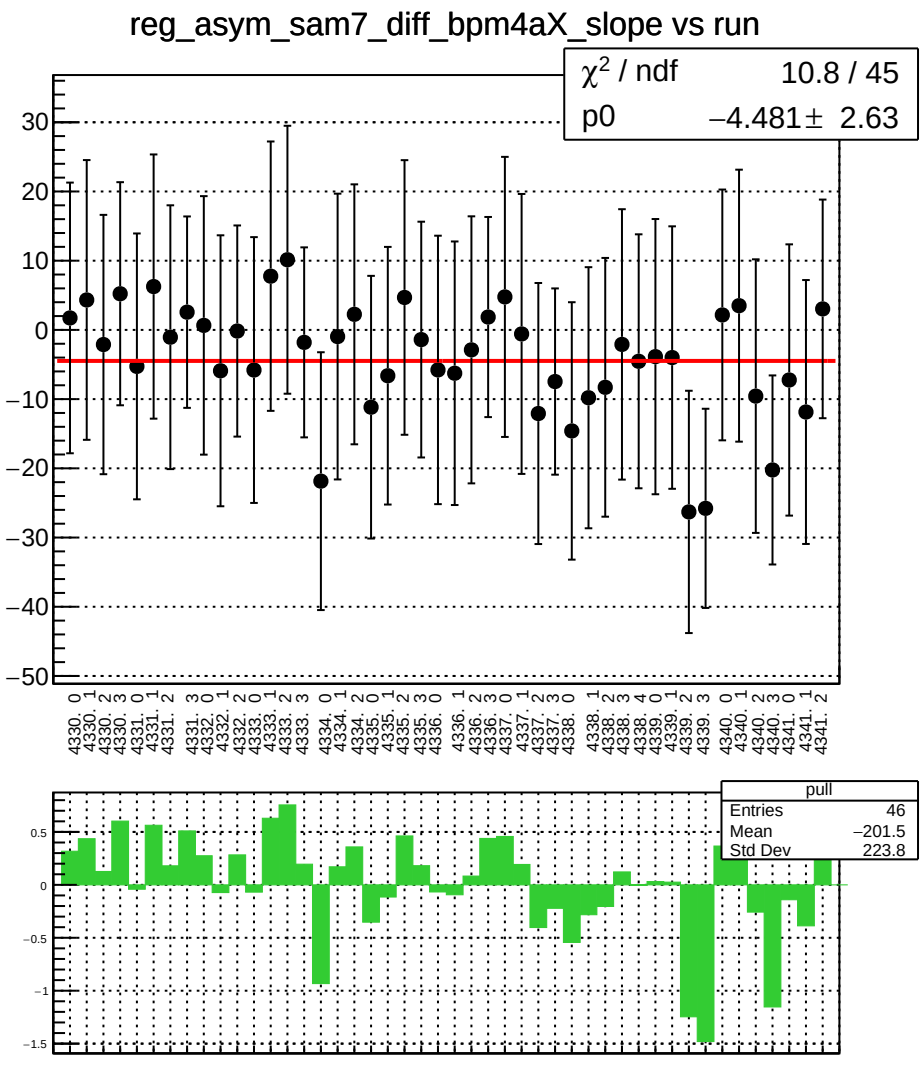

pull1D
Entries 46
Mean −0.005158
Std Dev 0.9936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

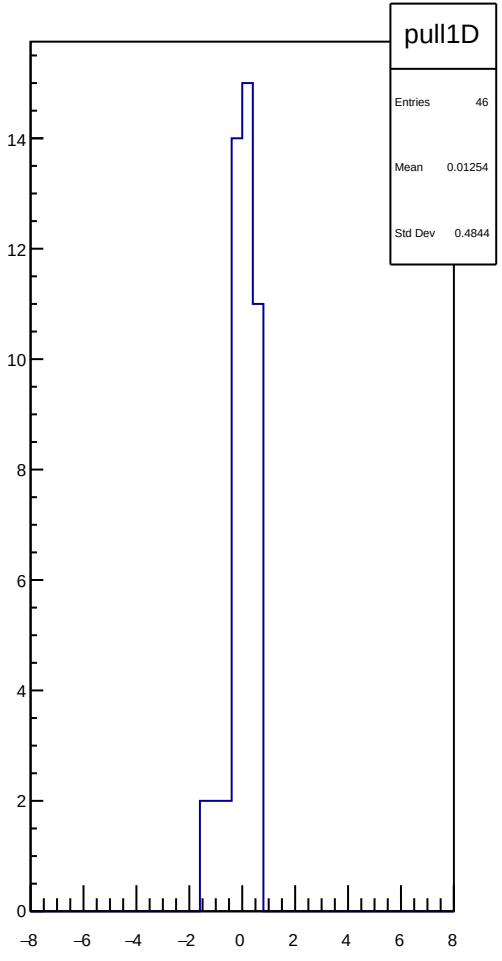

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 6.299 / 45
p0 67.73 ± 4.234
140
120
100
80
60
40
20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −221.8
Std Dev 236.5
1
0.5
0
−0.5
−1

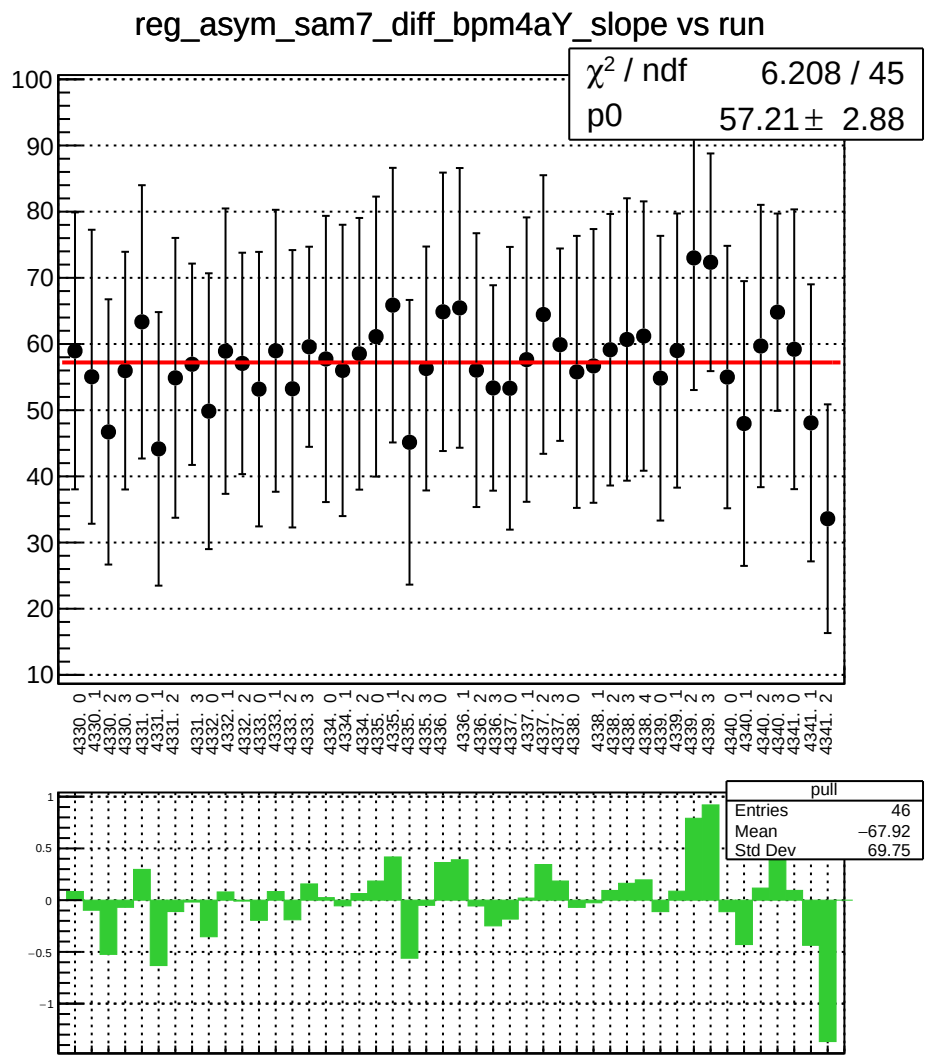

pull1D
Entries 46
Mean 0.004761
Std Dev 0.37
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

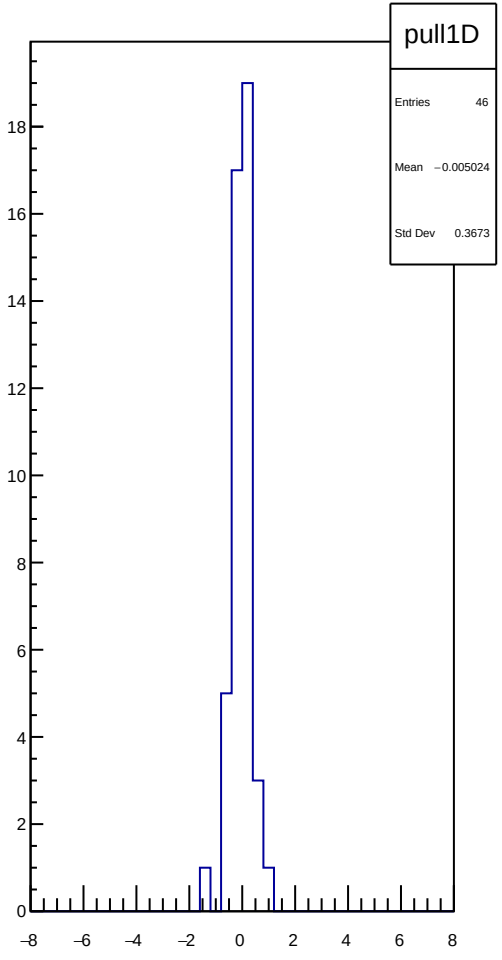

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 2.844 / 45
p0 3.847 ± 0.7592
pull
Entries 46
Mean −78.24
Std Dev 98.52

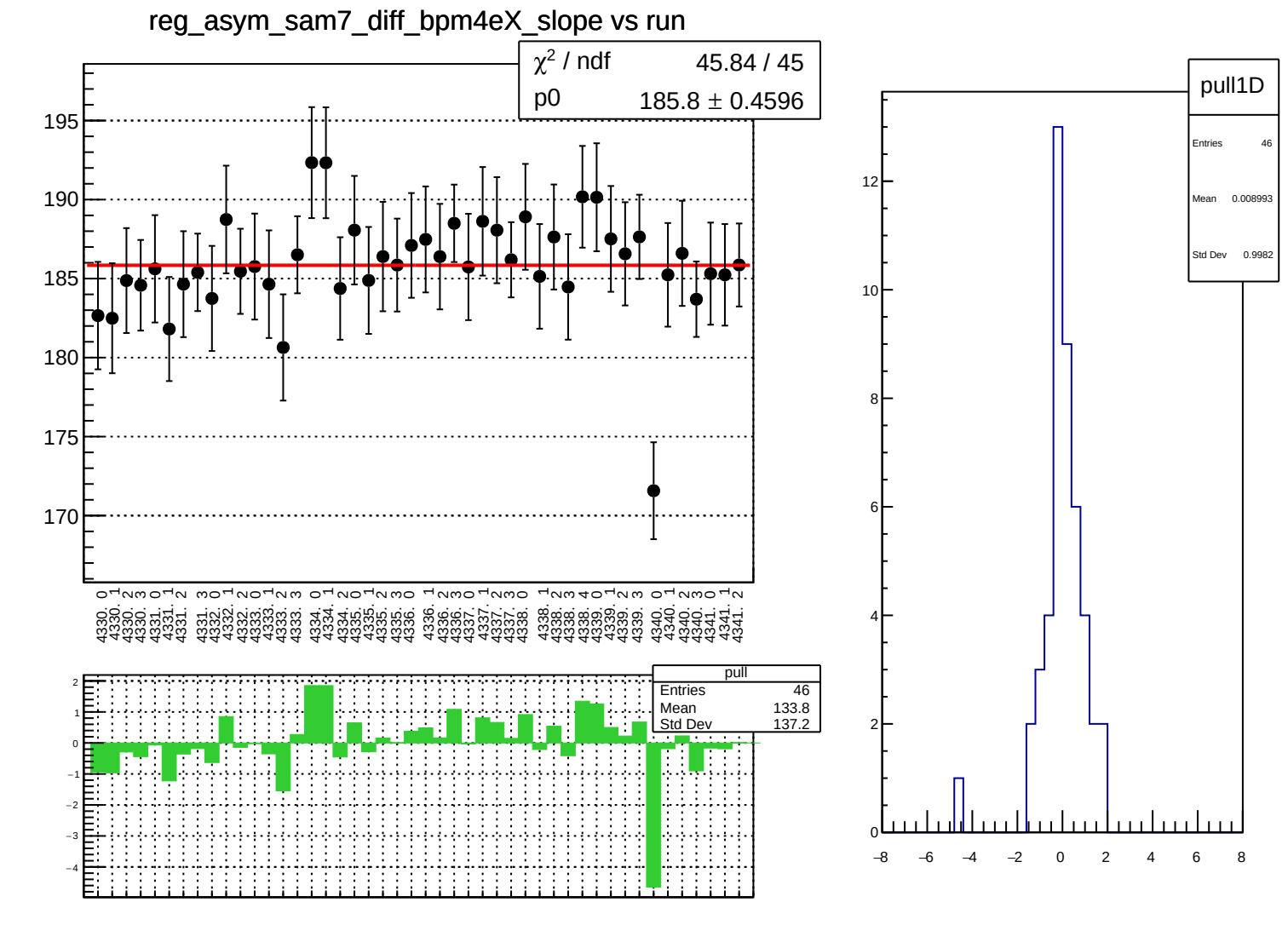

pull1D
Entries 46
Mean 0.003479
Std Dev 0.2486

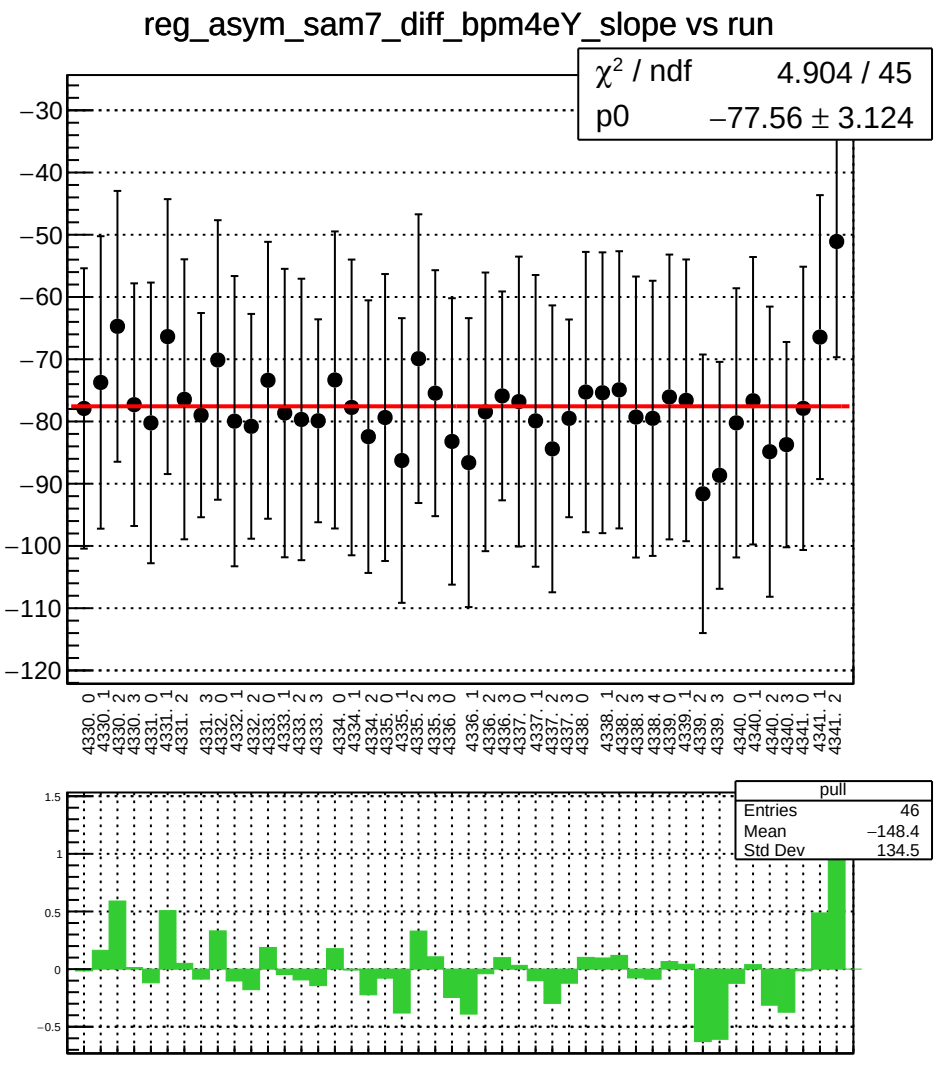

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 10.8 / 45
p0 −4.481 ± 2.63
pull
Entries 46
Mean −201.5
Std Dev 223.8

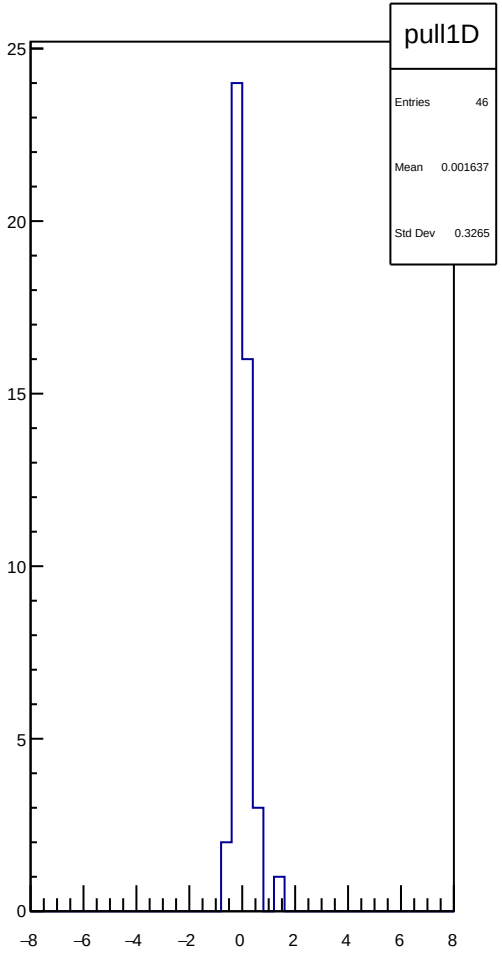

pull1D
Entries 46
Mean 0.01254
Std Dev 0.4844

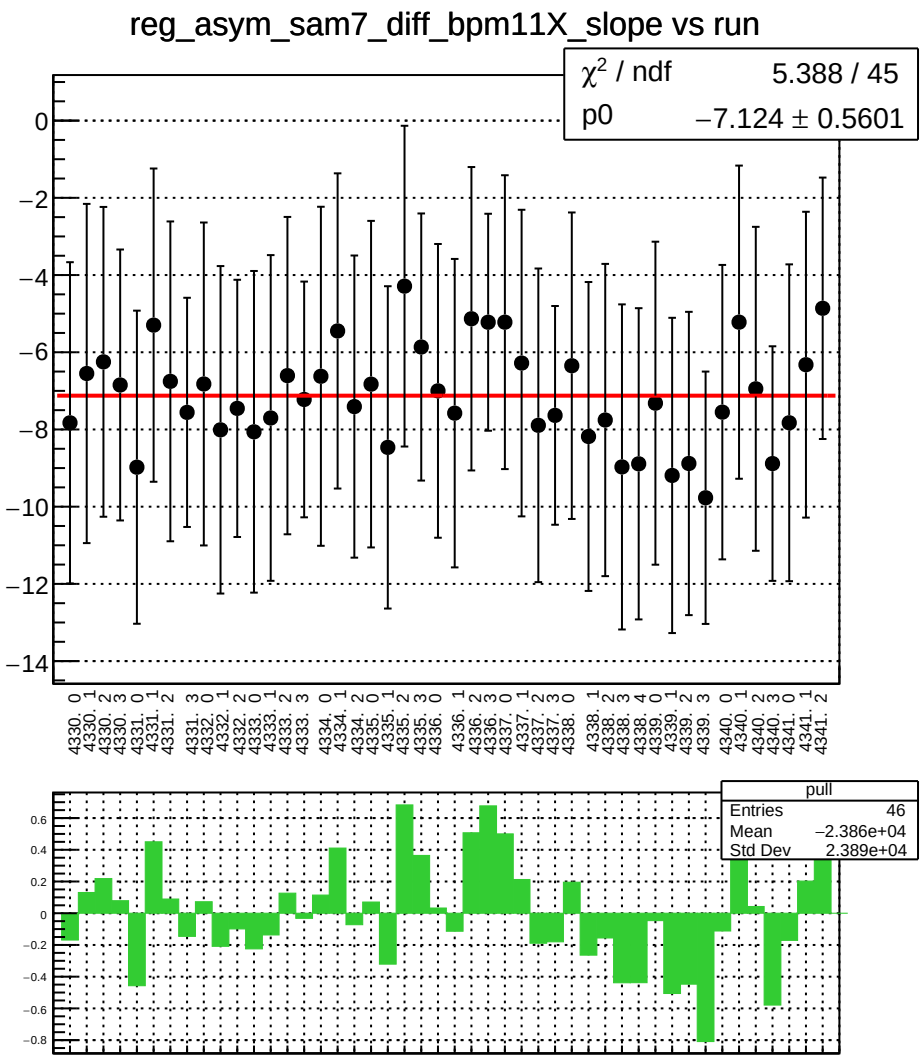

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.208 / 45
p0 57.21 ± 2.88
pull
Entries 46
Mean −67.92
Std Dev 69.75

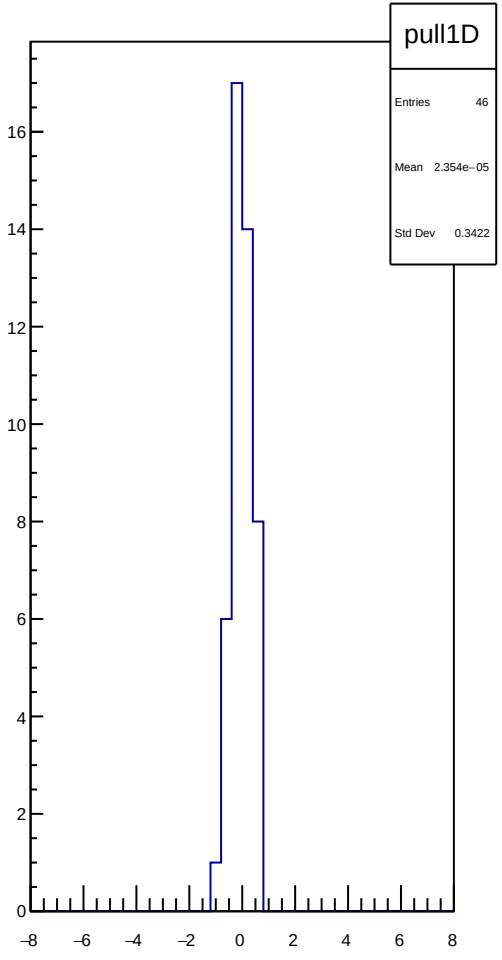

pull1D
Entries 46
Mean −0.005024
Std Dev 0.3673

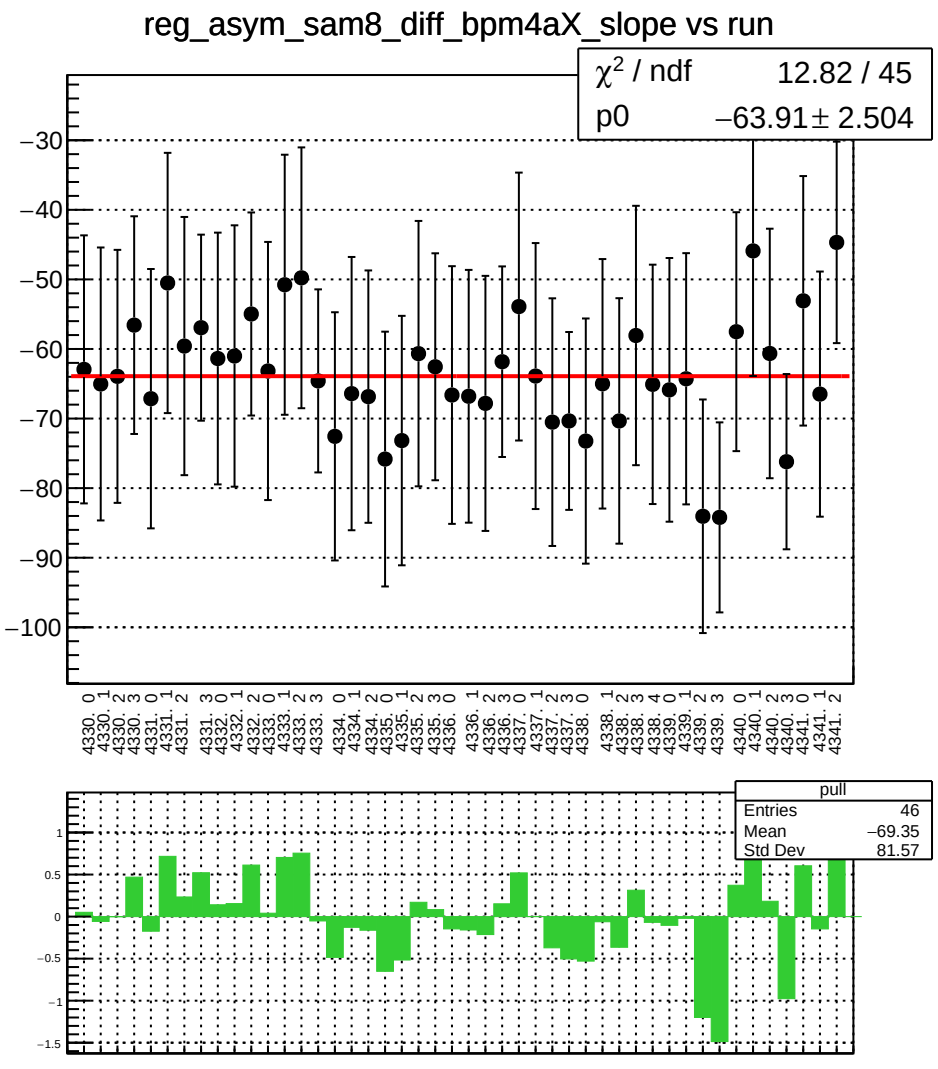

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 45.84 / 45
p0 185.8 ± 0.4596
195
190
185
180
175
170
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 133.8
Std Dev 137.2
2
1
0
−1
−2
−3
−4
pull1D
Entries 46
Mean 0.008993
Std Dev 0.9982
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

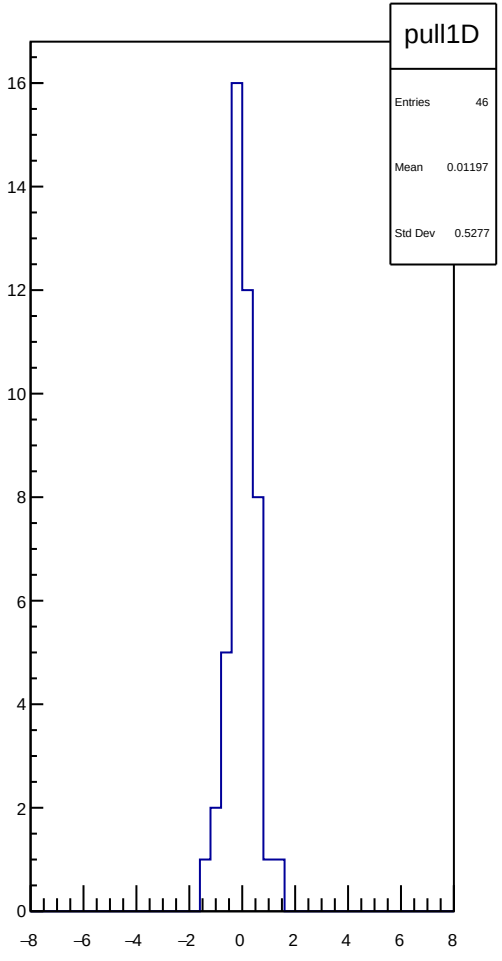

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.904 / 45
p0 −77.56 ± 3.124
pull
Entries 46
Mean −148.4
Std Dev 134.5

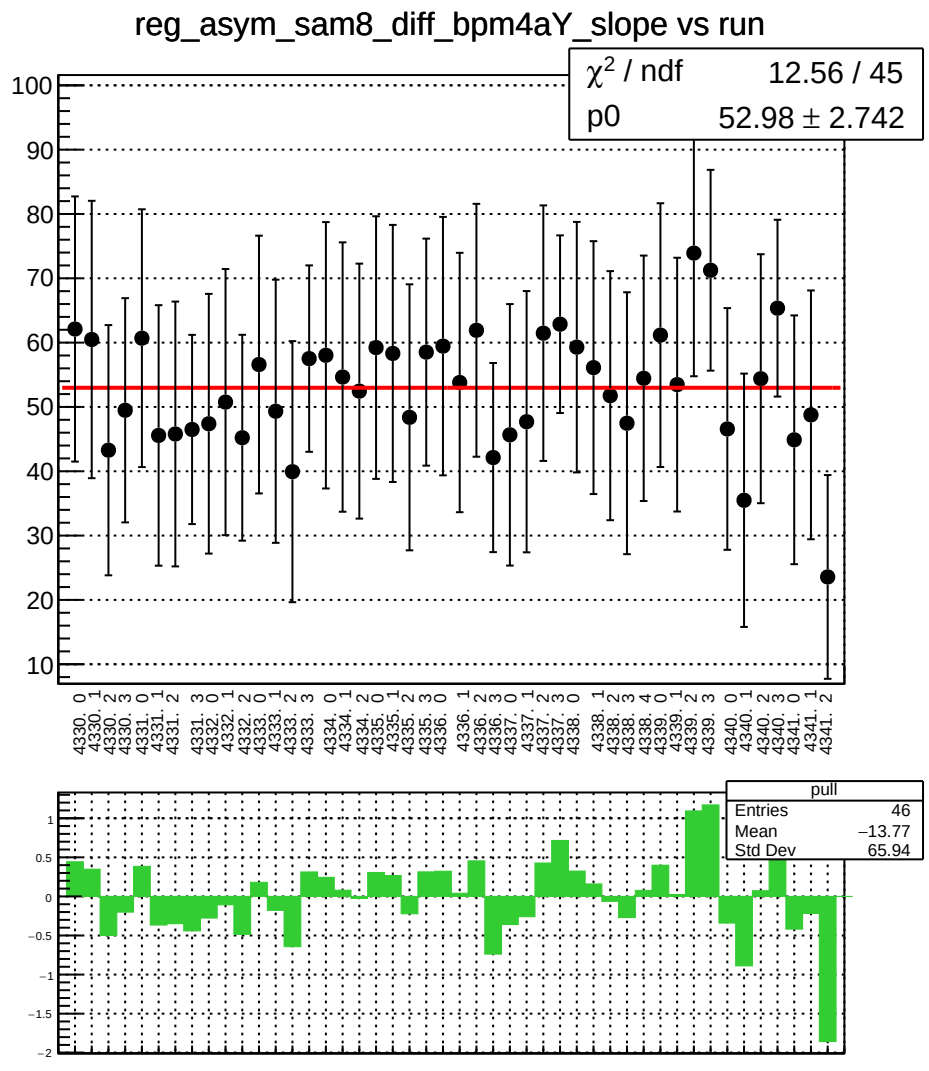

pull1D
Entries 46
Mean 0.001637
Std Dev 0.3265

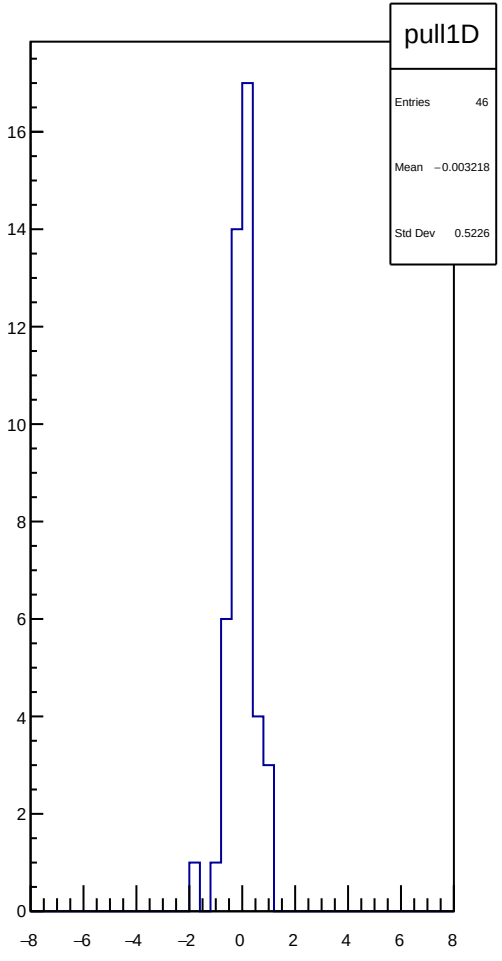

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 5.388 / 45
p0 −7.124 ± 0.5601
pull
Entries 46
Mean −2.386e+04
Std Dev 2.389e+04

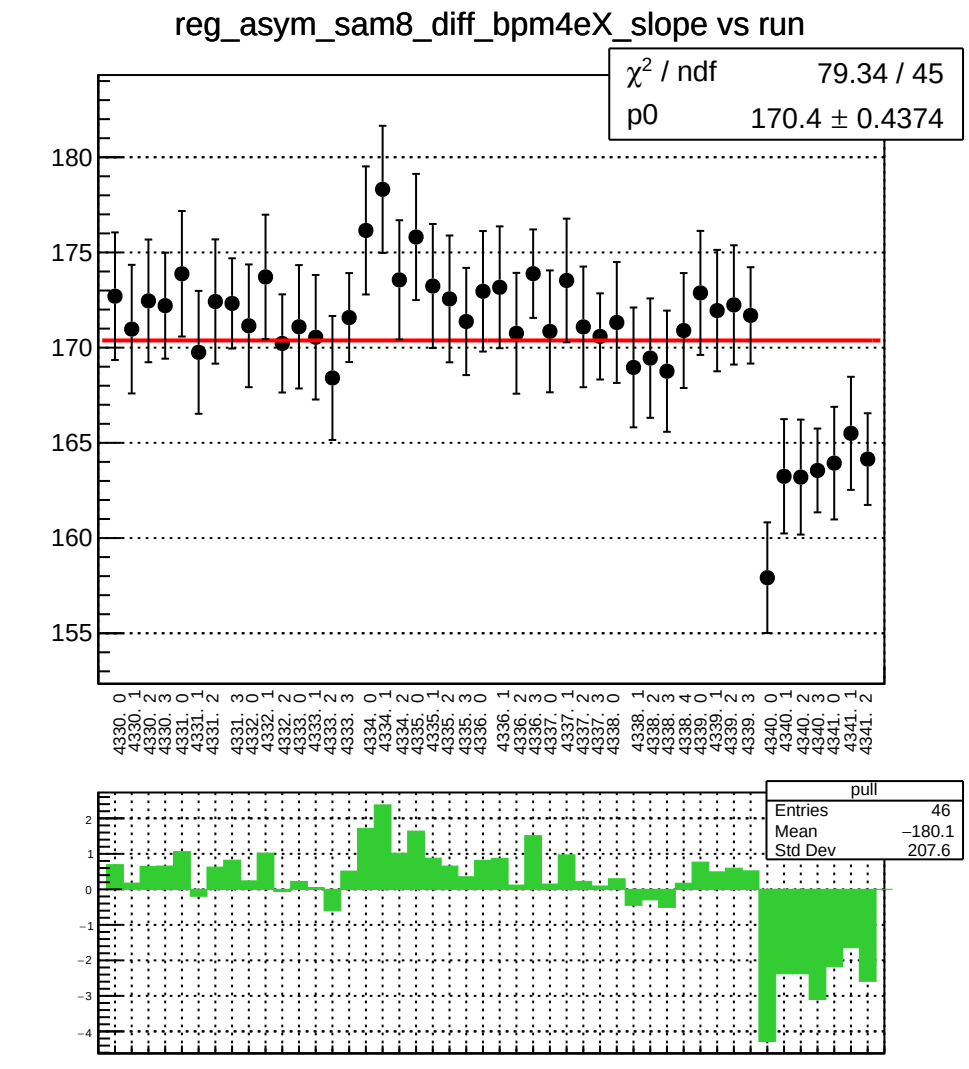

pull1D
Entries 46
Mean 2.354e−05
Std Dev 0.3422

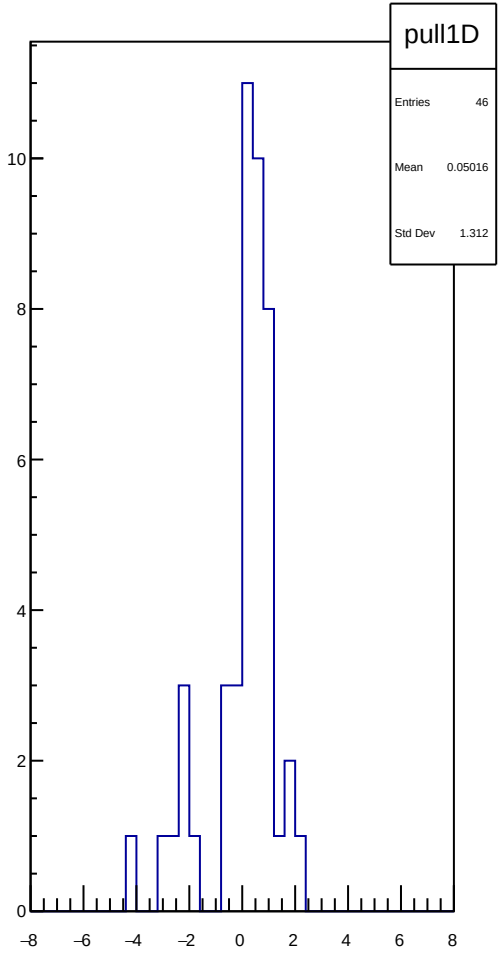

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 12.82 / 45
p0 −63.91± 2.504
pull
Entries 46
Mean −69.35
Std Dev 81.57

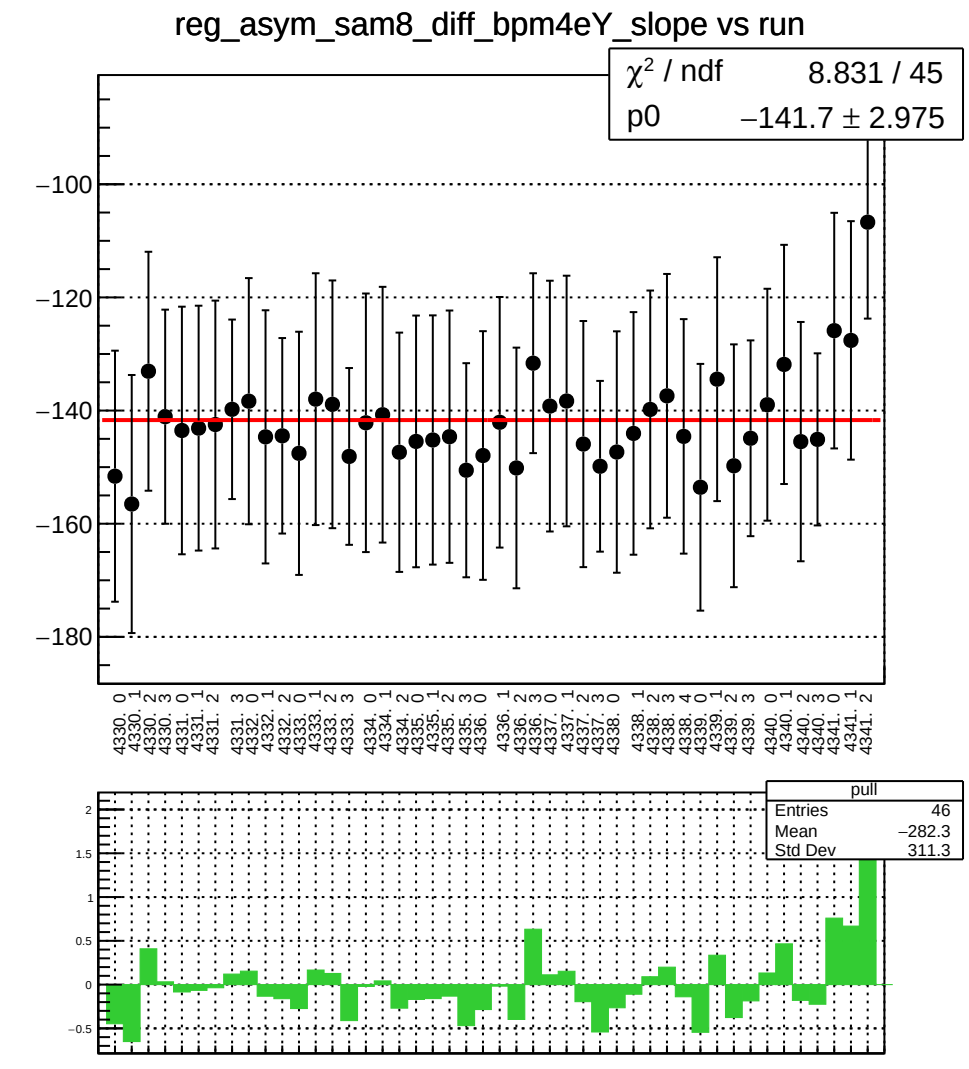

pull1D
Entries 46
Mean 0.01197
Std Dev 0.5277

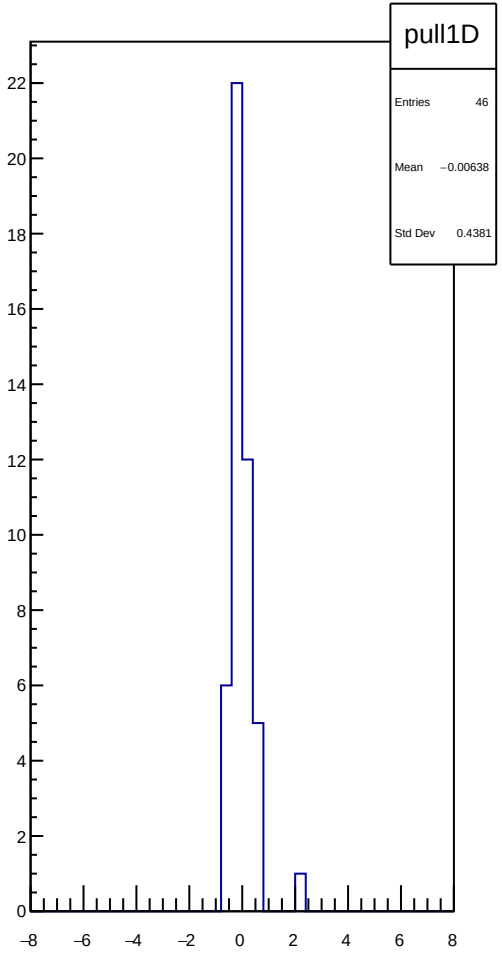

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 12.56 / 45
p0 52.98 ± 2.742
pull
Entries 46
Mean −13.77
Std Dev 65.94

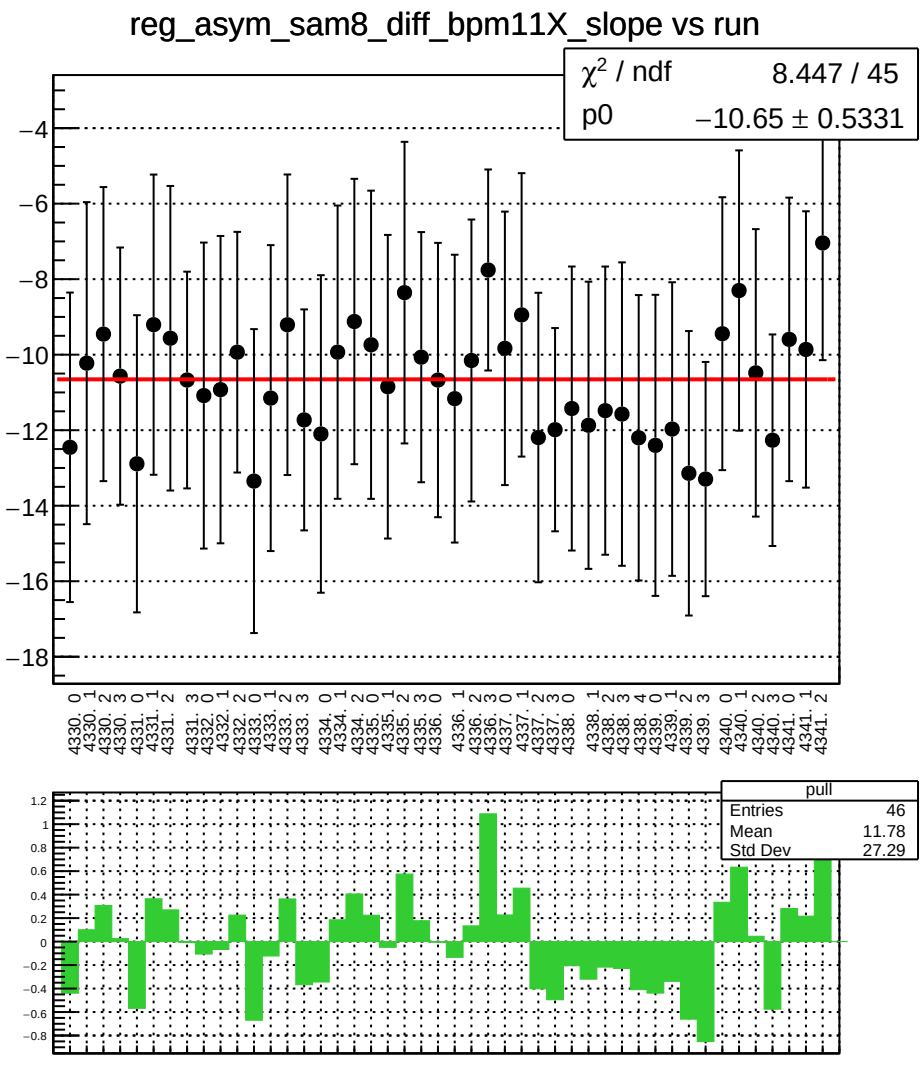

pull1D
Entries 46
Mean −0.003218
Std Dev 0.5226

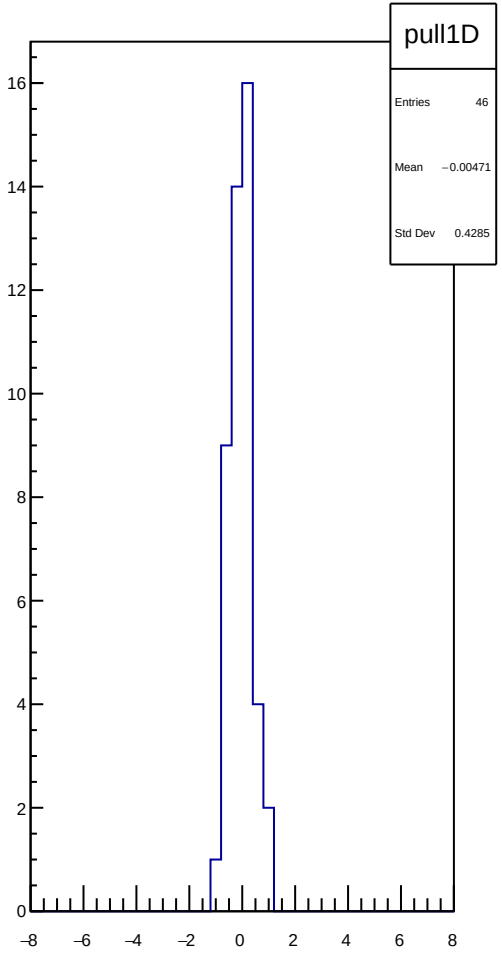

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 79.34 / 45
p0 170.4 ± 0.4374
180
175
170
165
160
155
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −180.1
Std Dev 207.6
2
1
0
−1
−2
−3
−4

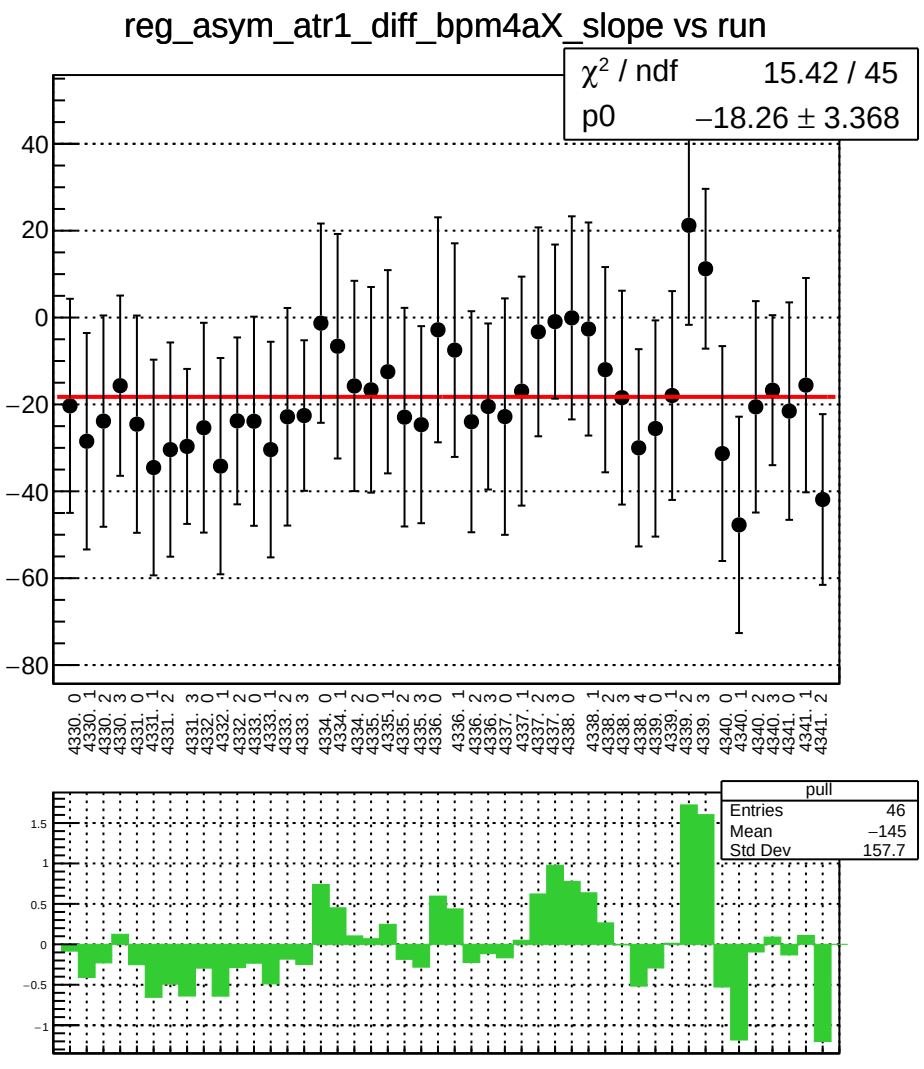

pull1D
Entries 46
Mean 0.05016
Std Dev 1.312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

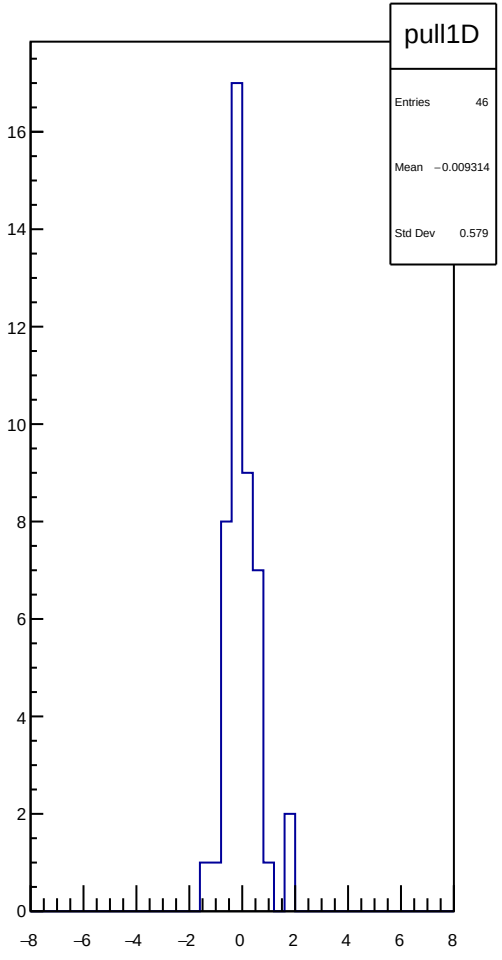

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.831 / 45
p0 −141.7 ± 2.975
−100
−120
−140
−160
−180
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −282.3
Std Dev 311.3
2
1.5
1
0.5
0
−0.5

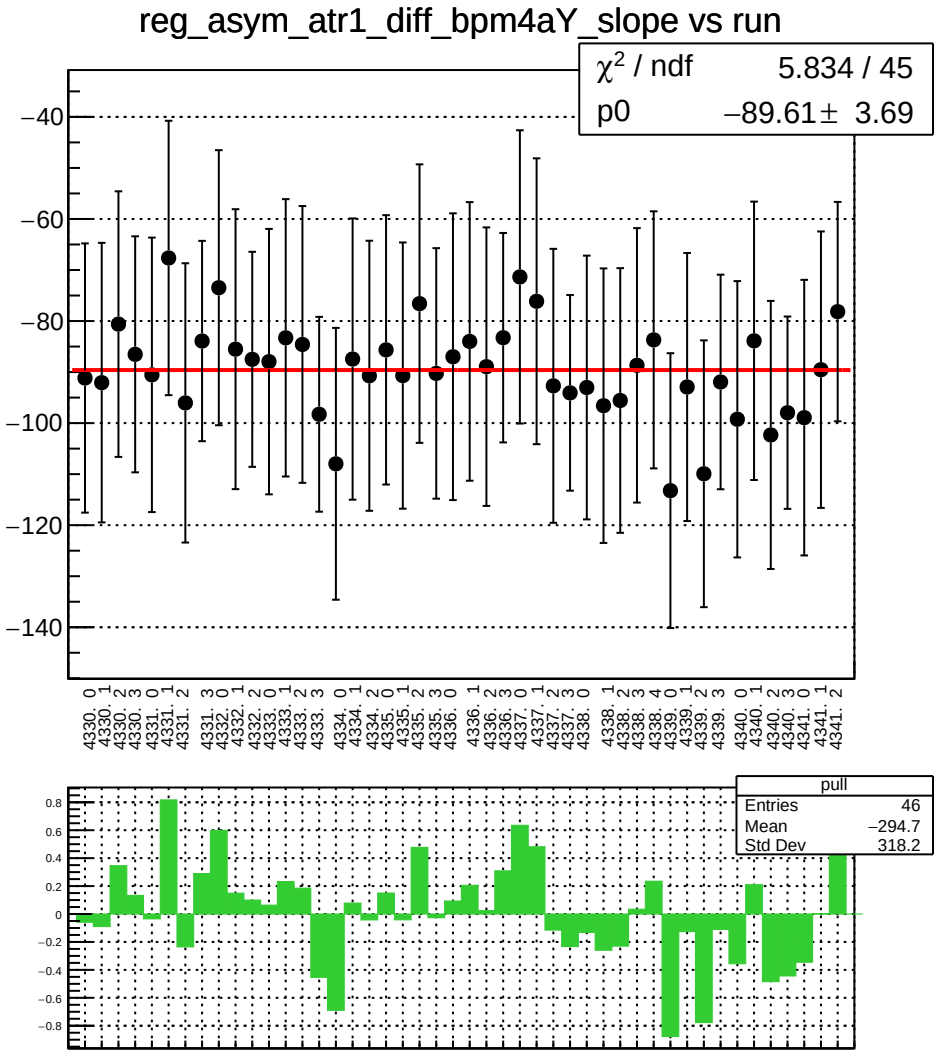

pull1D
Entries 46
Mean −0.00638
Std Dev 0.4381
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

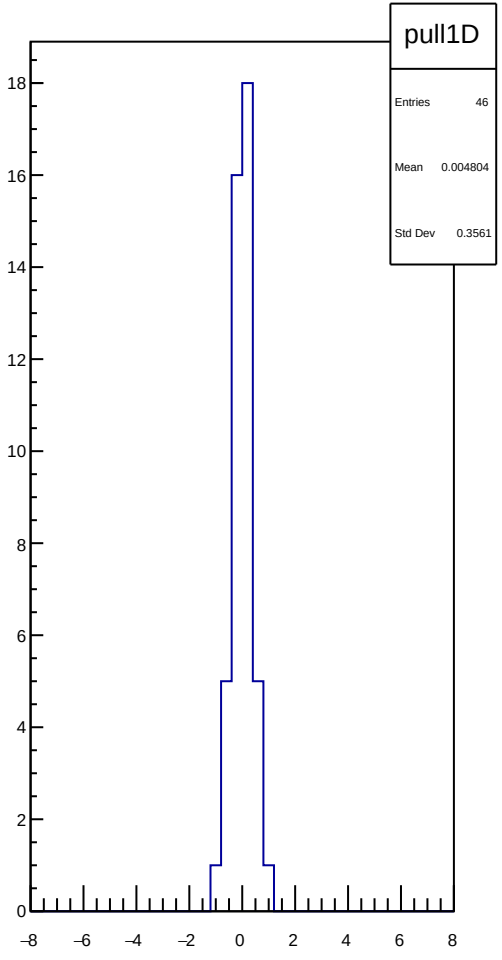

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 8.447 / 45
p0 −10.65 ± 0.5331
pull
Entries 46
Mean 11.78
Std Dev 27.29

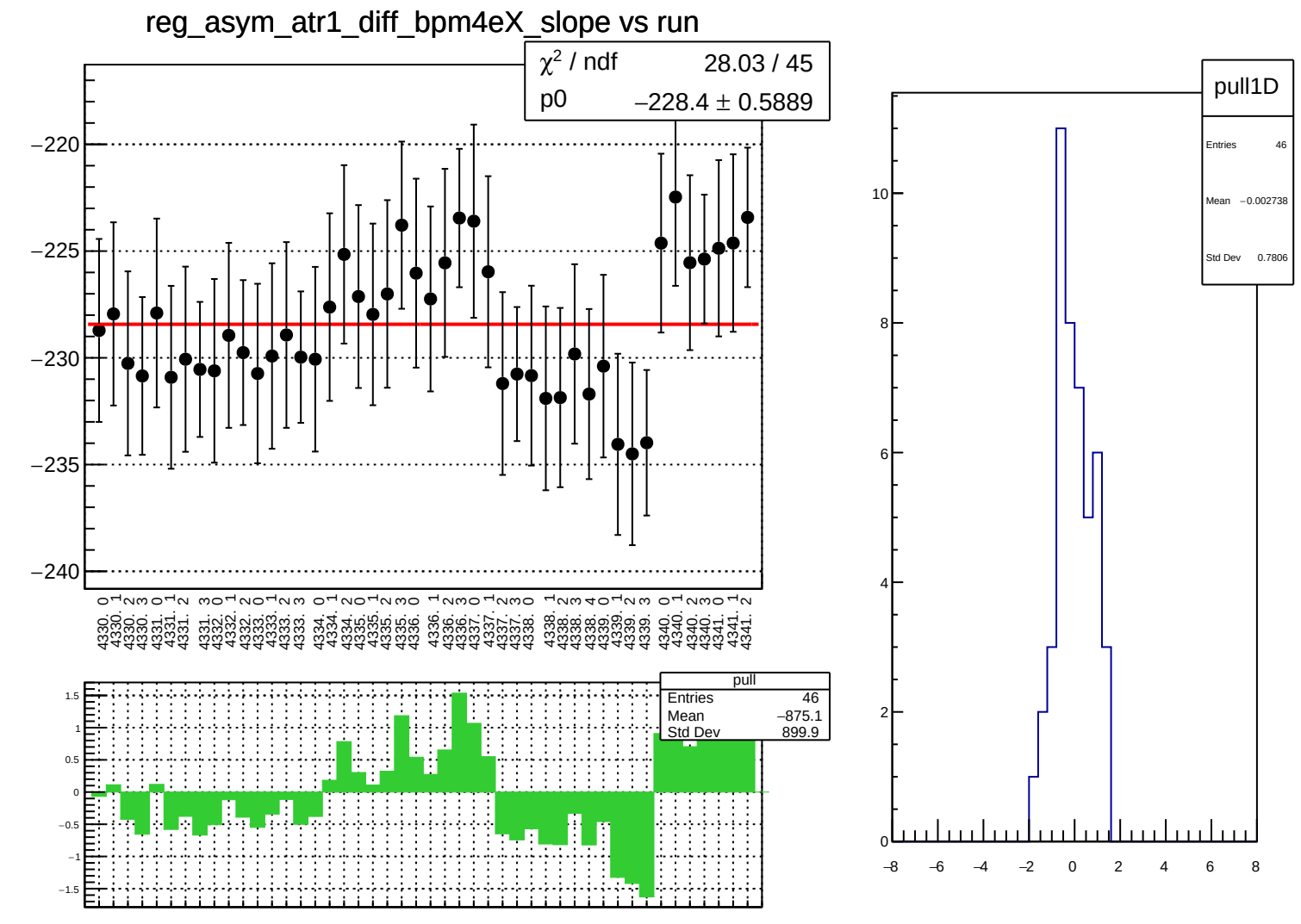

pull1D
Entries 46
Mean −0.00471
Std Dev 0.4285

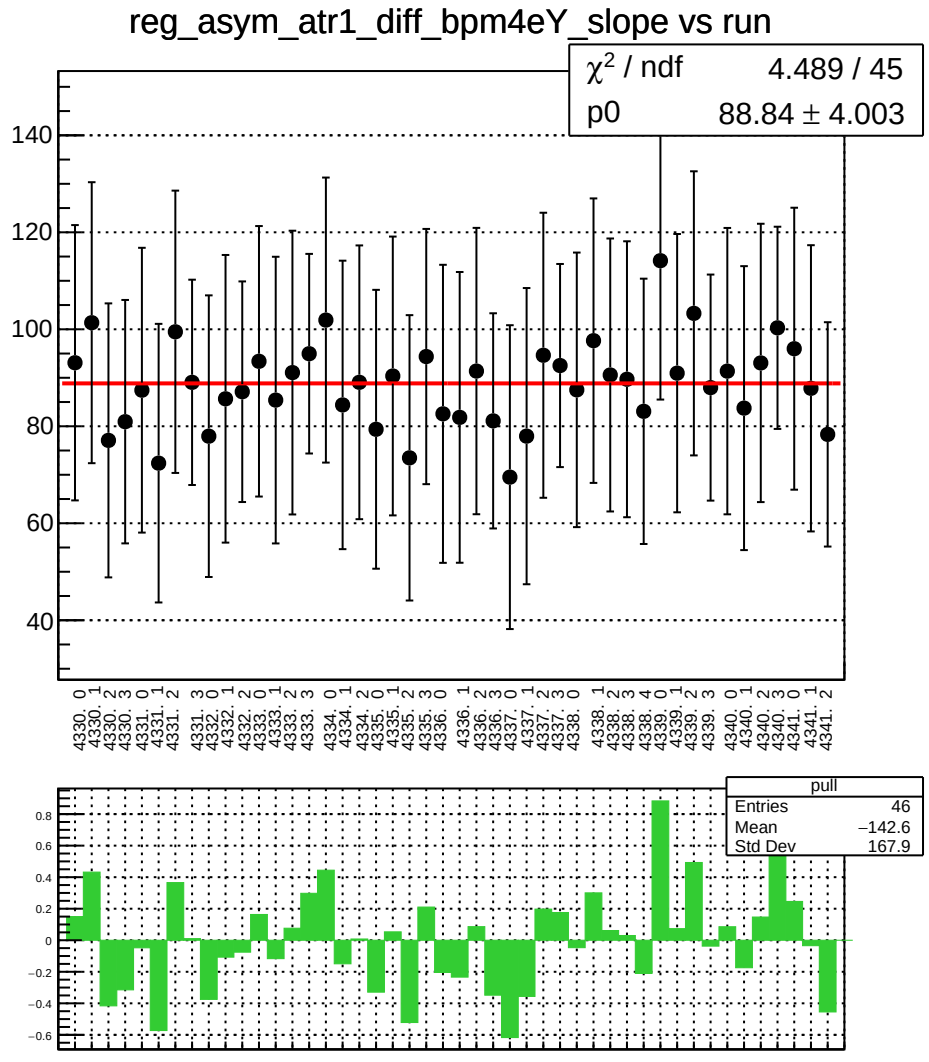

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 15.42 / 45
p0 −18.26 ± 3.368
pull
Entries 46
Mean −145
Std Dev 157.7

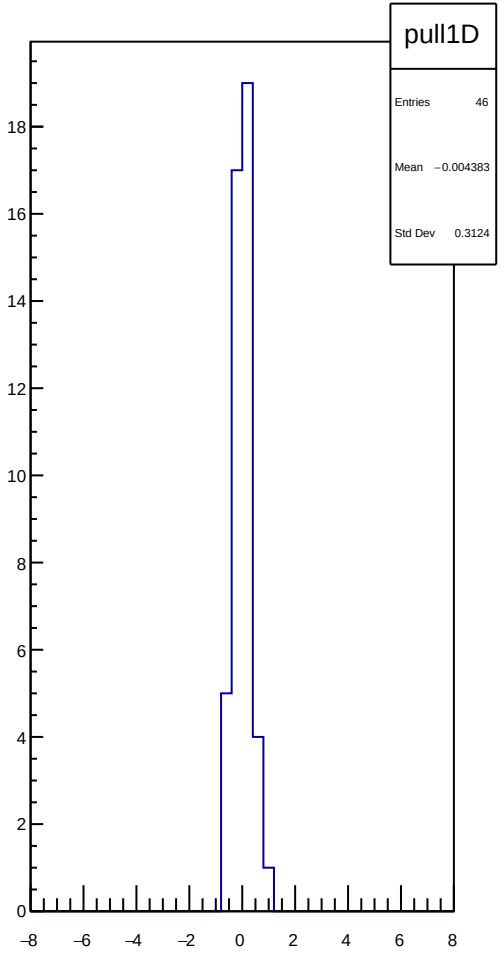

pull1D
Entries 46
Mean −0.009314
Std Dev 0.579

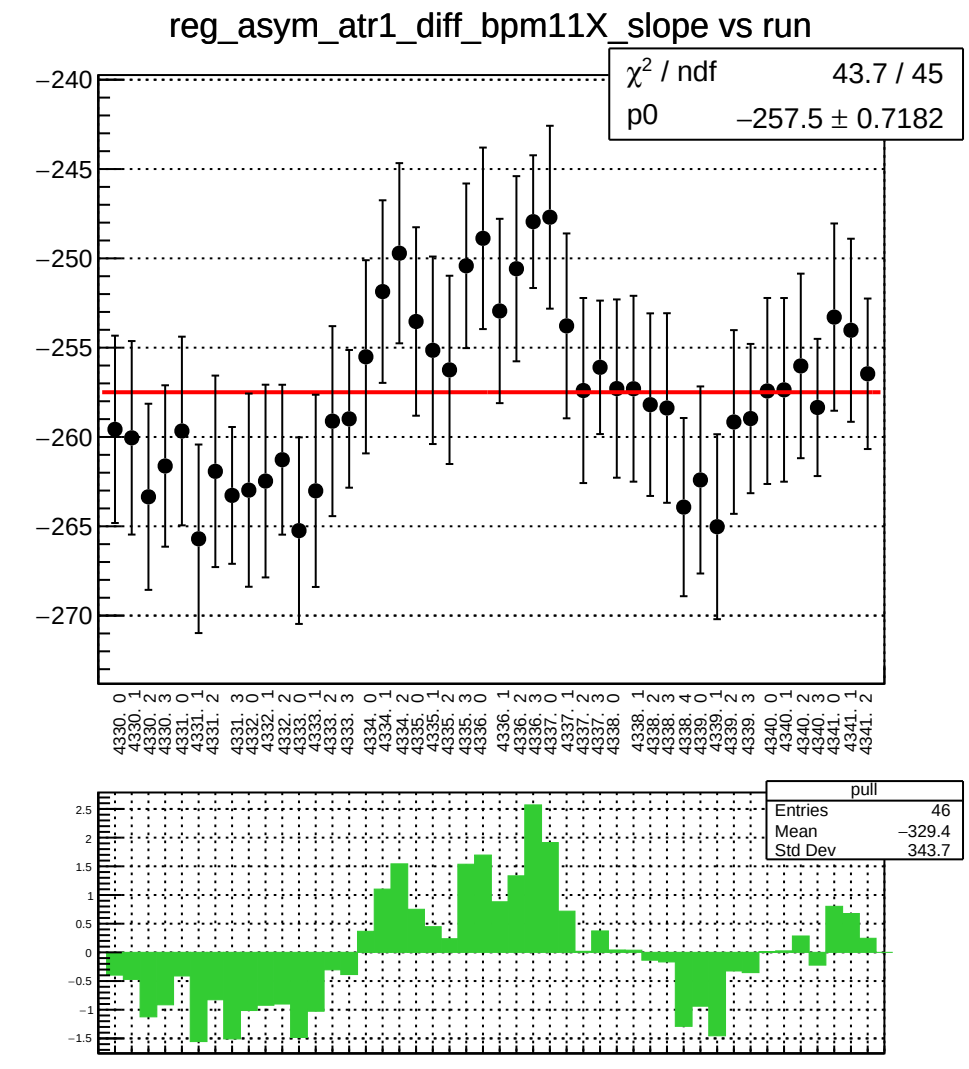

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 5.834 / 45
p0 −89.61± 3.69
pull
Entries 46
Mean −294.7
Std Dev 318.2

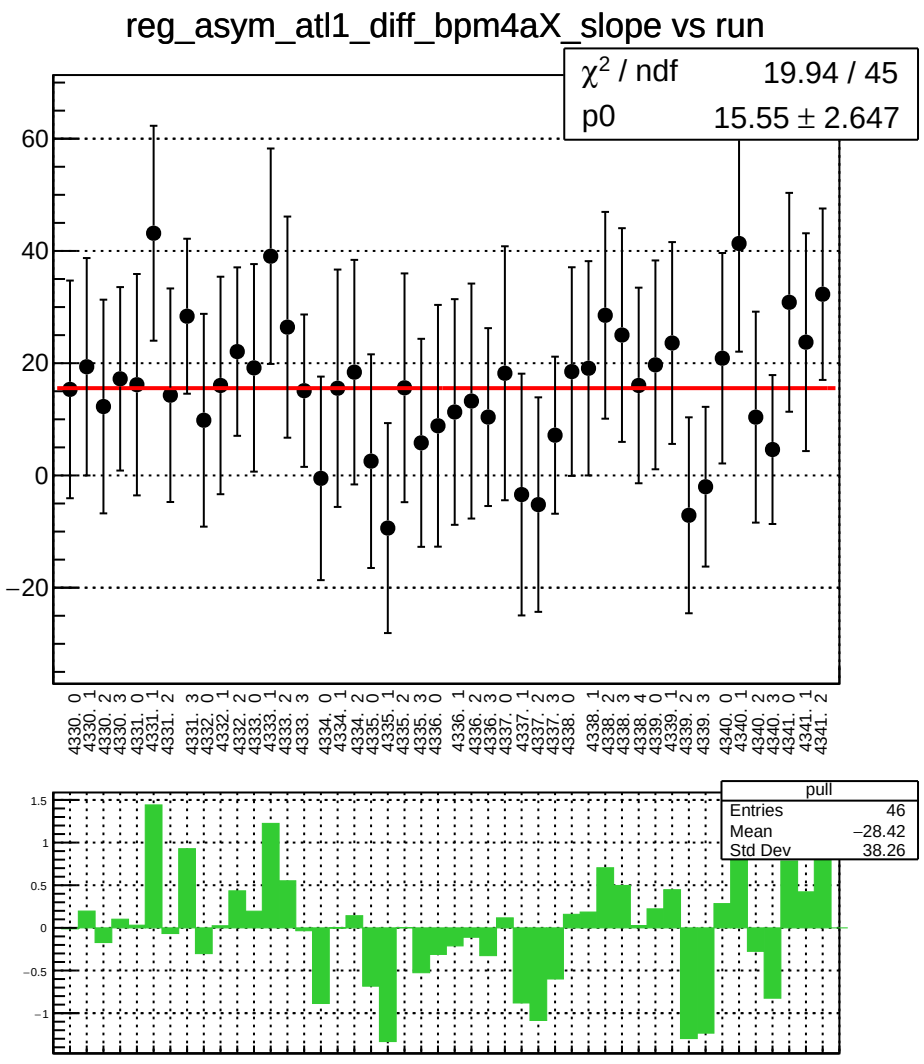

pull1D
Entries 46
Mean 0.004804
Std Dev 0.3561

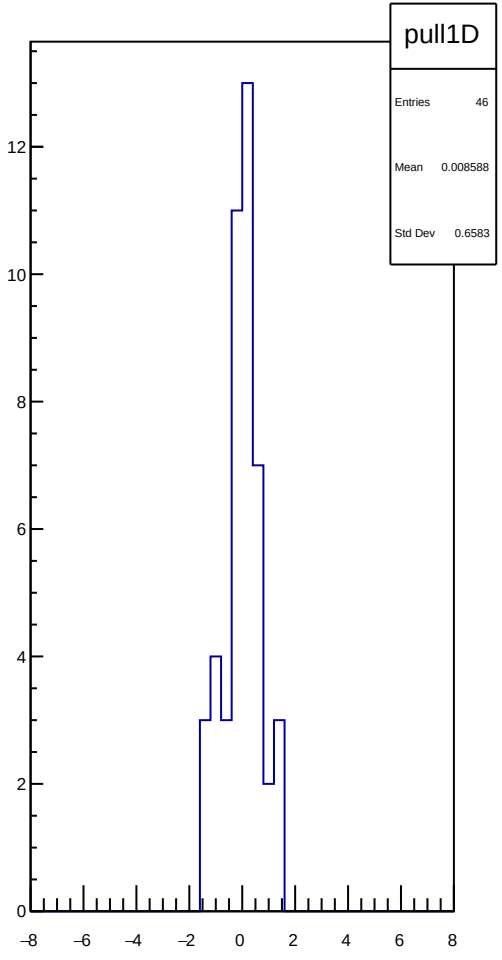

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 28.03 / 45
p0 −228.4 ± 0.5889
−220
−225
−230
−235
−240
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −875.1
Std Dev 899.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.002738
Std Dev 0.7806
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

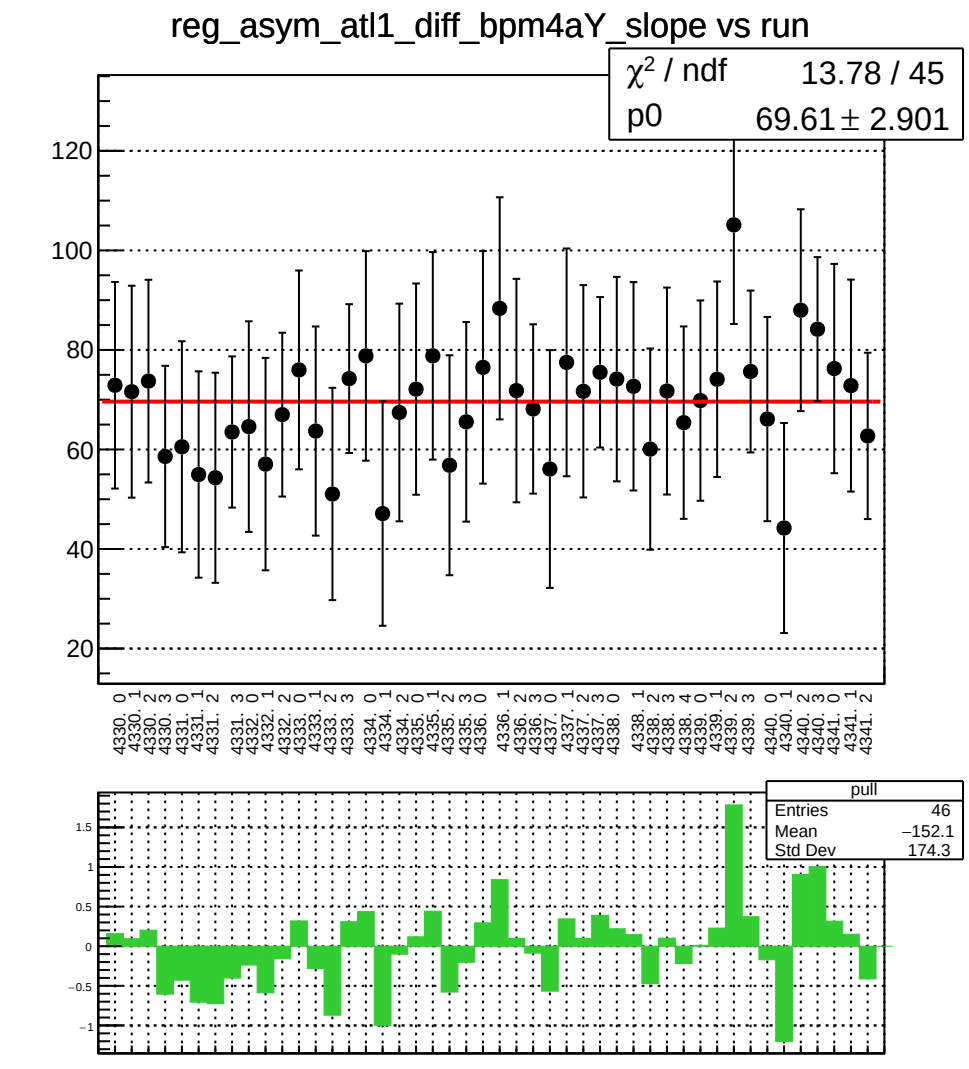

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 4.489 / 45
p0 88.84 ± 4.003
140
120
100
80
60
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −142.6
Std Dev 167.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

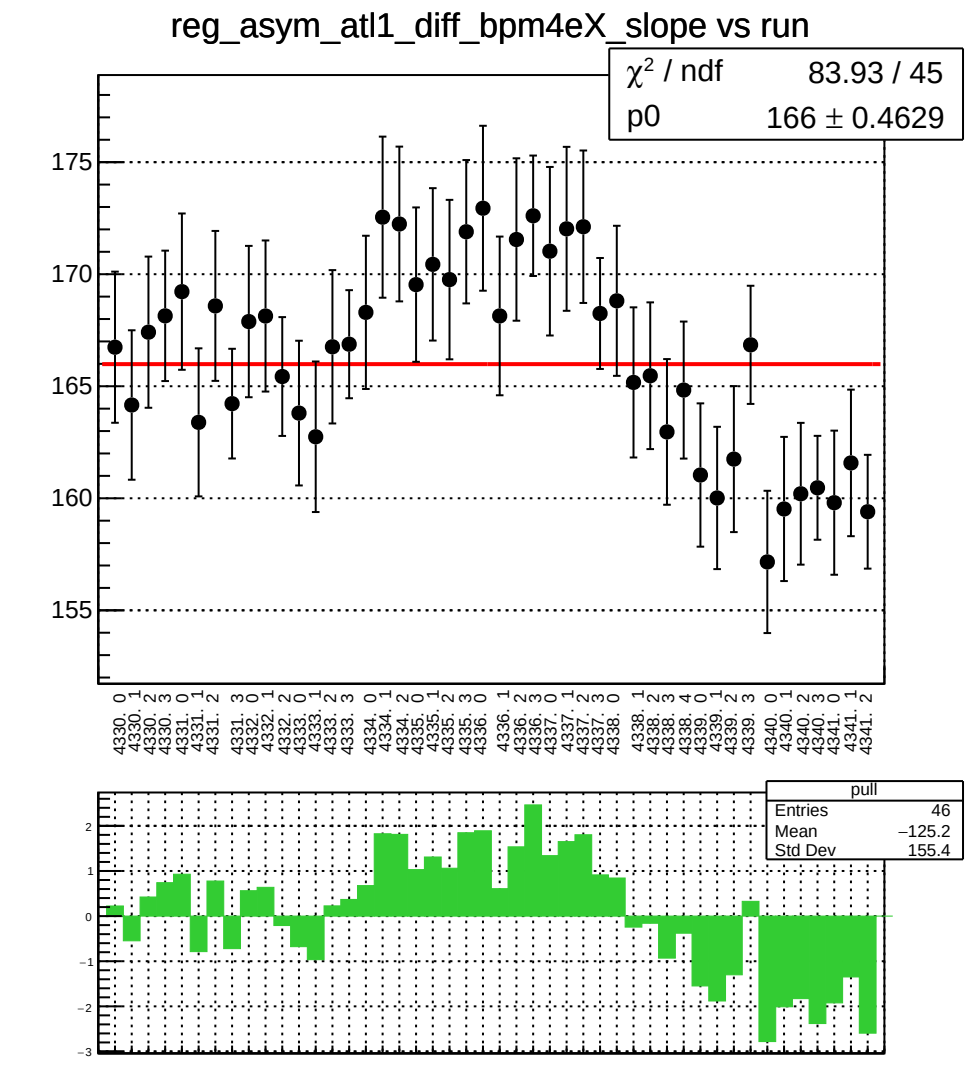

pull1D
Entries 46
Mean −0.004383
Std Dev 0.3124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

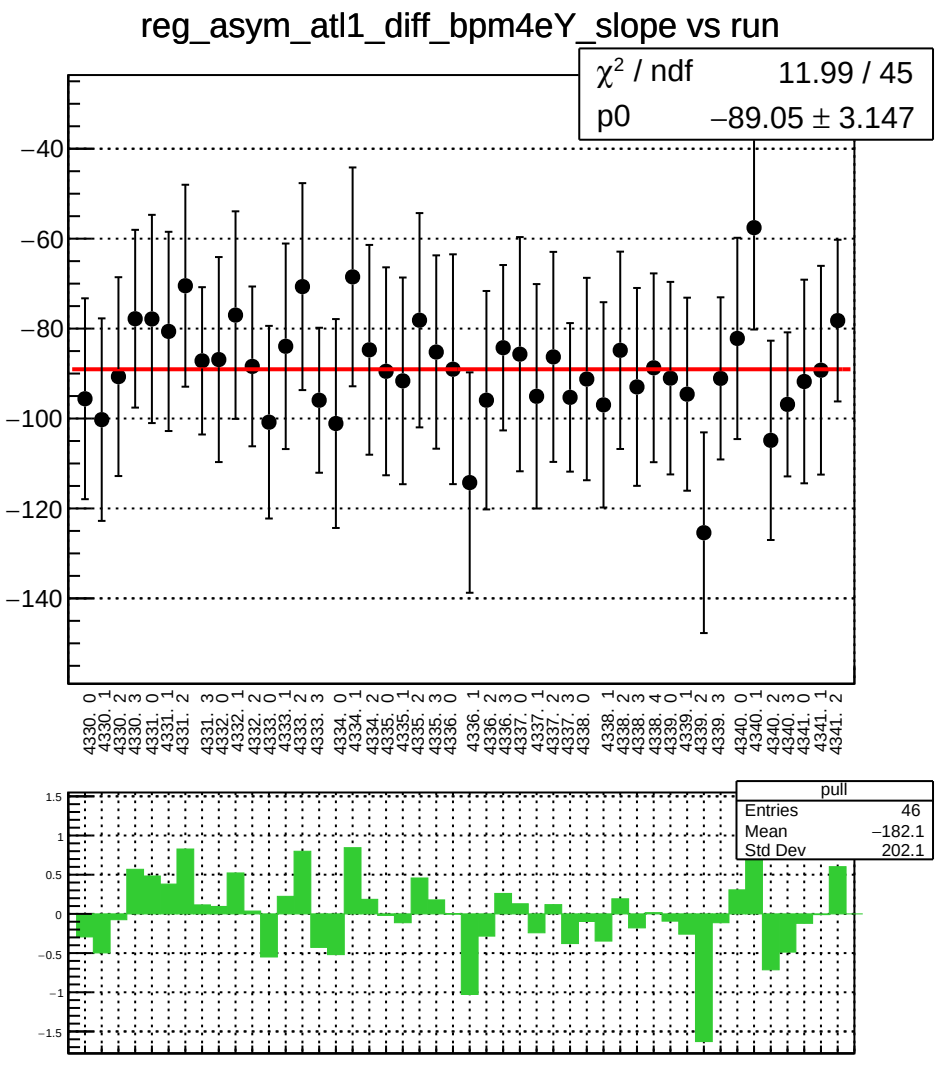

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 43.7 / 45
p0 −257.5 ± 0.7182
−240
−245
−250
−255
−260
−265
−270
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −329.4
Std Dev 343.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.01096
Std Dev 0.9746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

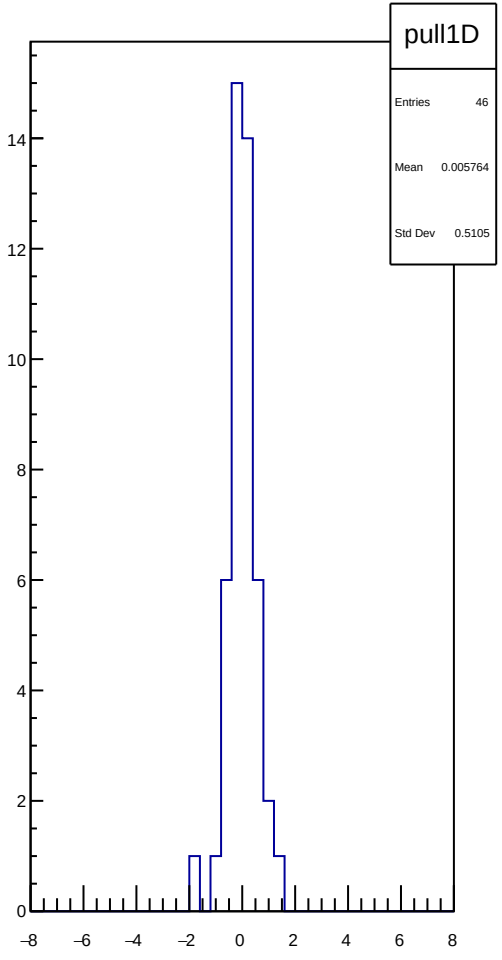

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 19.94 / 45
p0 15.55 ± 2.647
60
40
20
0
−20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −28.42
Std Dev 38.26
1.5
1
0.5
0
−0.5
−1

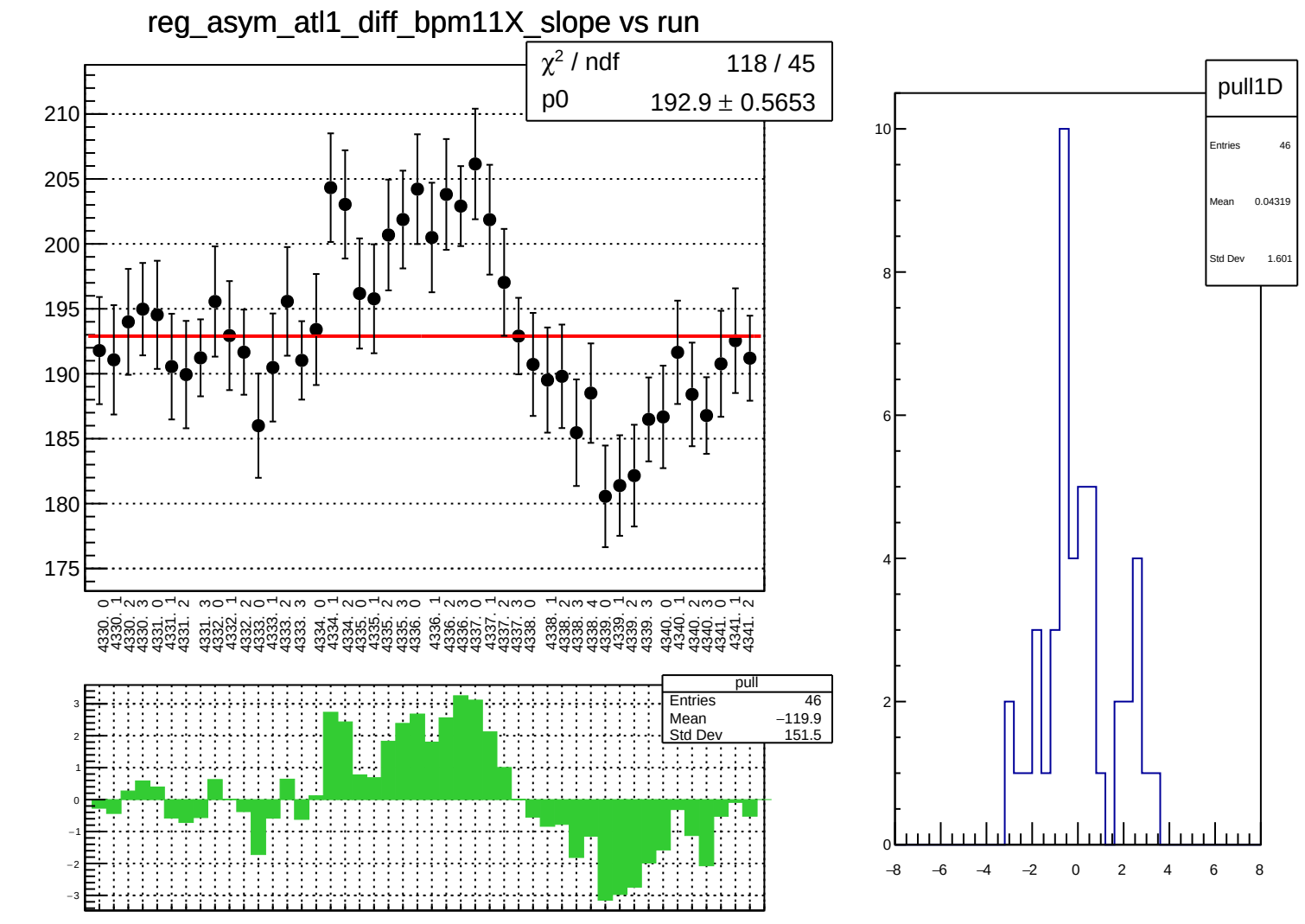

pull1D
Entries 46
Mean 0.008588
Std Dev 0.6583
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

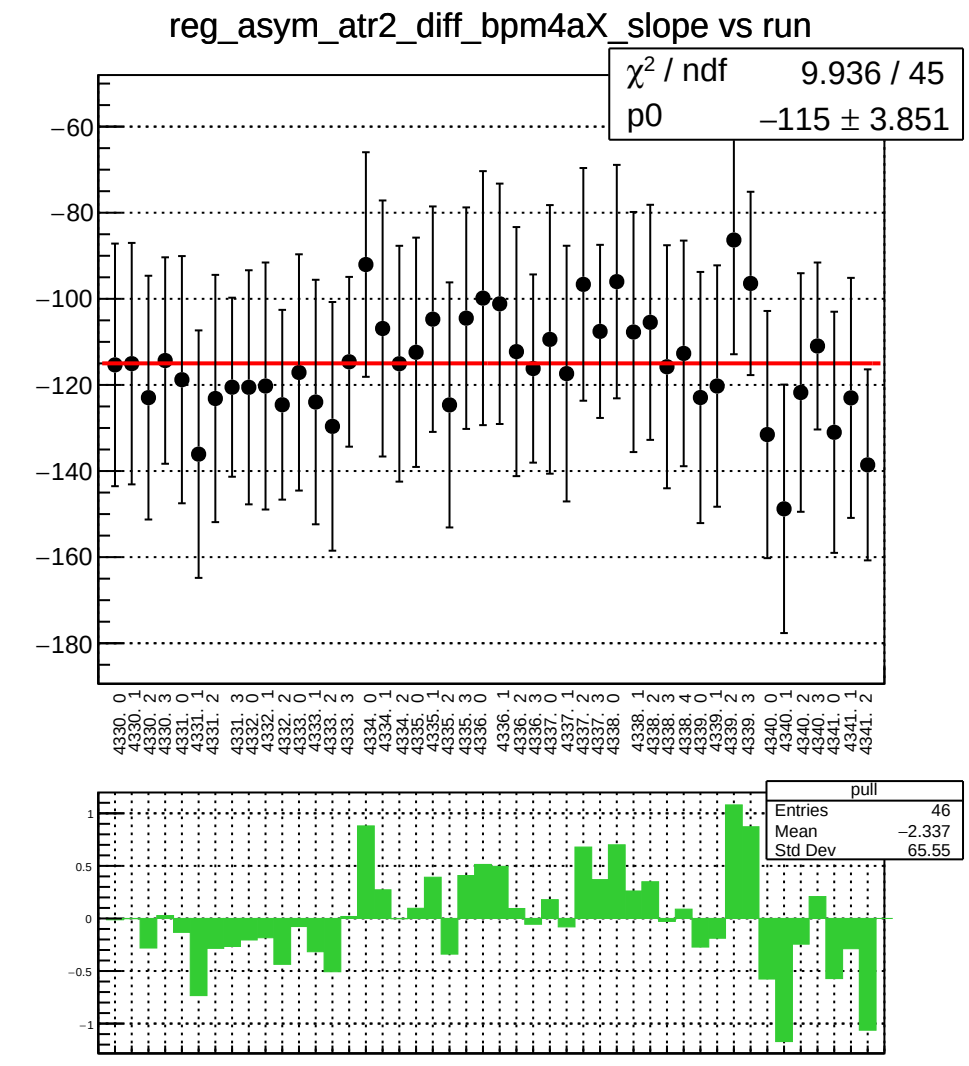

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 13.78 / 45
p0 69.61 ± 2.901
120
100
80
60
40
20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −152.1
Std Dev 174.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01364
Std Dev 0.5473
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

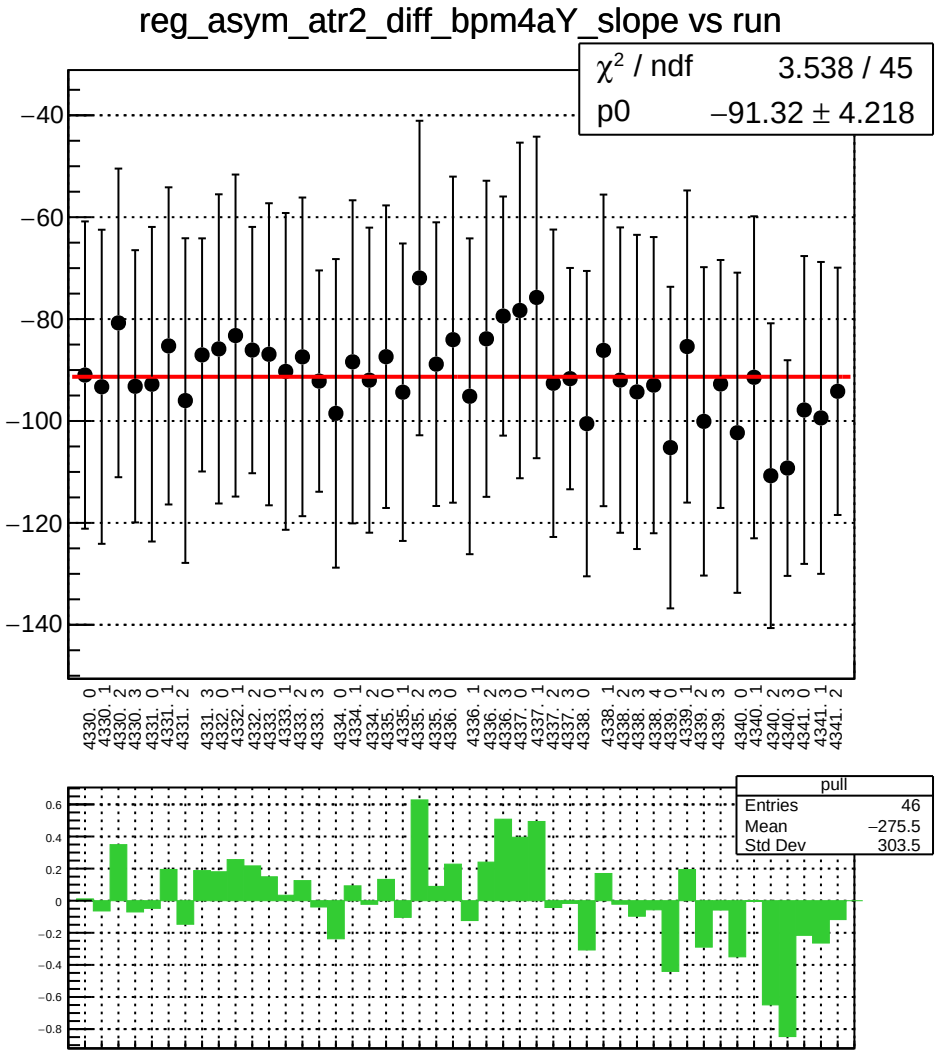

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 83.93 / 45
p0 166 ± 0.4629
175
170
165
160
155
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −125.2
Std Dev 155.4
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean 0.05673
Std Dev 1.35
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

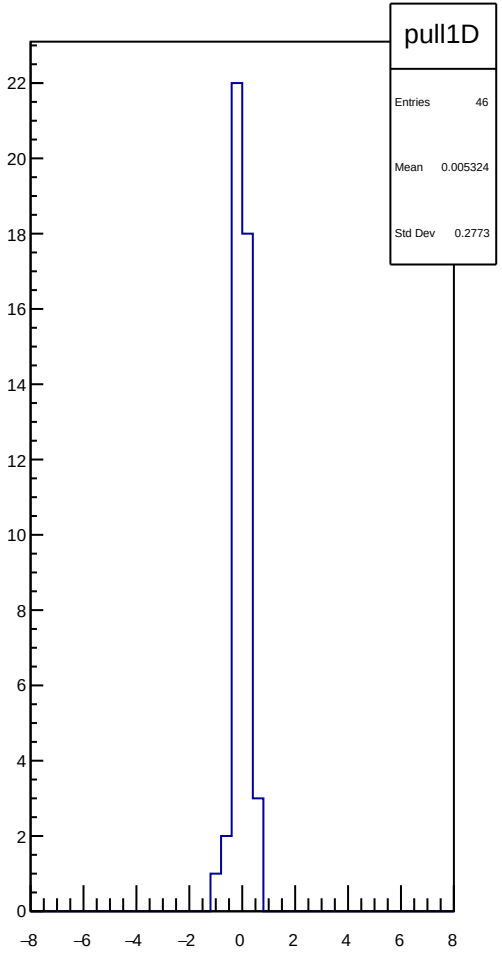

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 11.99 / 45
p0 −89.05 ± 3.147
pull
Entries 46
Mean −182.1
Std Dev 202.1

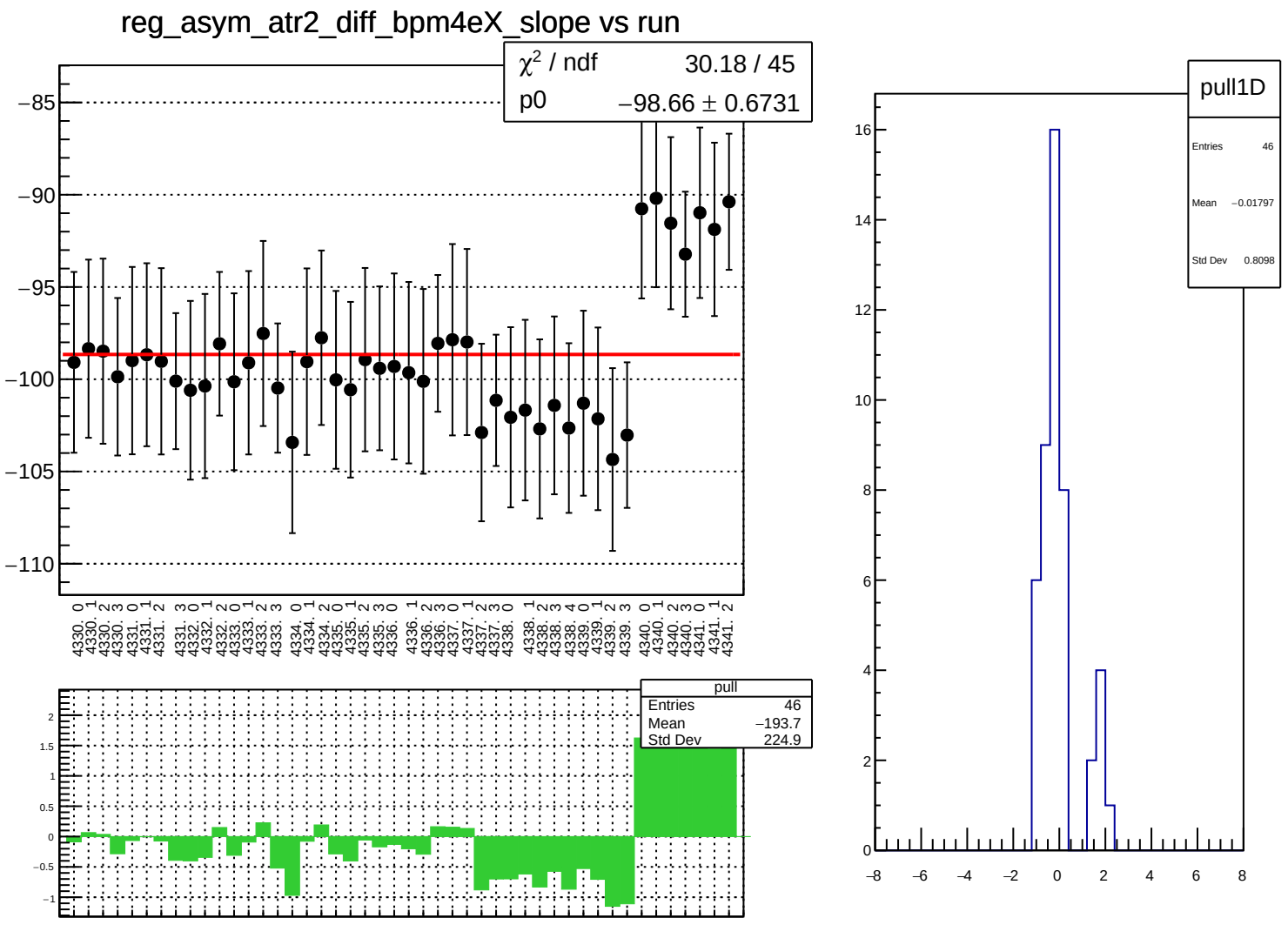

pull1D
Entries 46
Mean 0.005764
Std Dev 0.5105

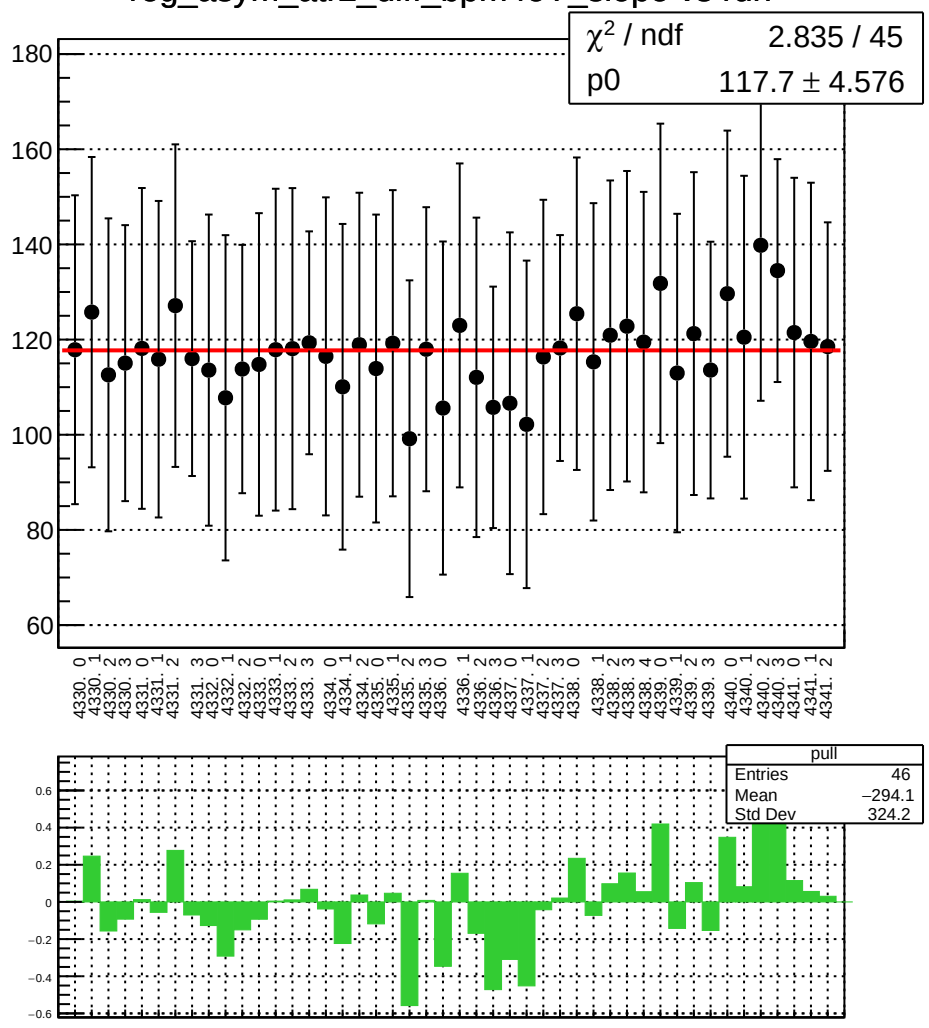

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 118 / 45
p0 192.9 ± 0.5653
pull
Entries 46
Mean −119.9
Std Dev 151.5
pull1D
Entries 46
Mean 0.04319
Std Dev 1.601

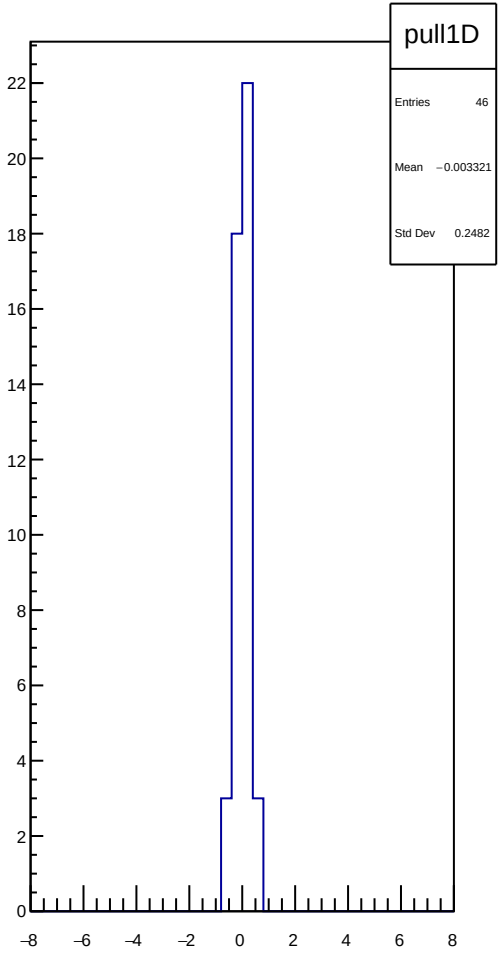

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 9.936 / 45
p0 −115 ± 3.851
−60
−80
−100
−120
−140
−160
−180
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −2.337
Std Dev 65.55
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.007175
Std Dev 0.4647
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

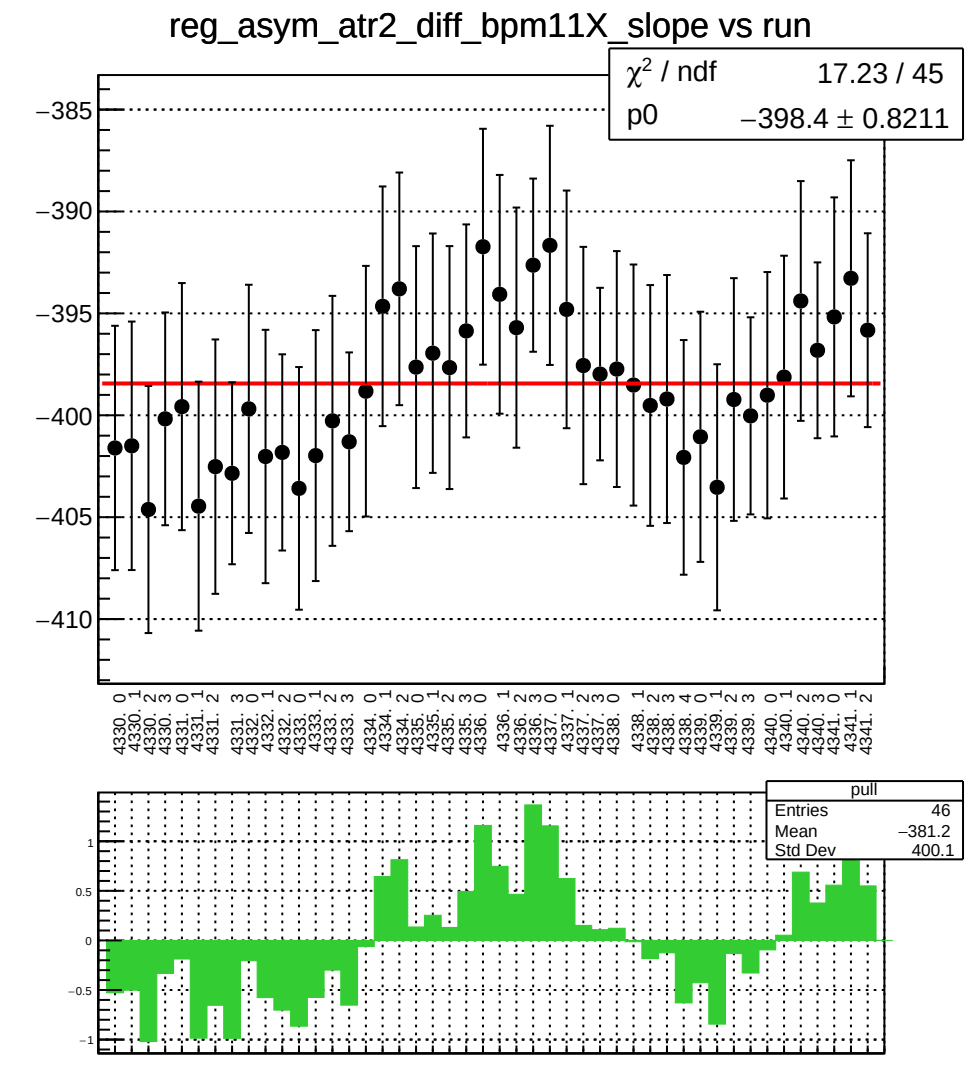

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.538 / 45
p0 −91.32 ± 4.218
pull
Entries 46
Mean −275.5
Std Dev 303.5

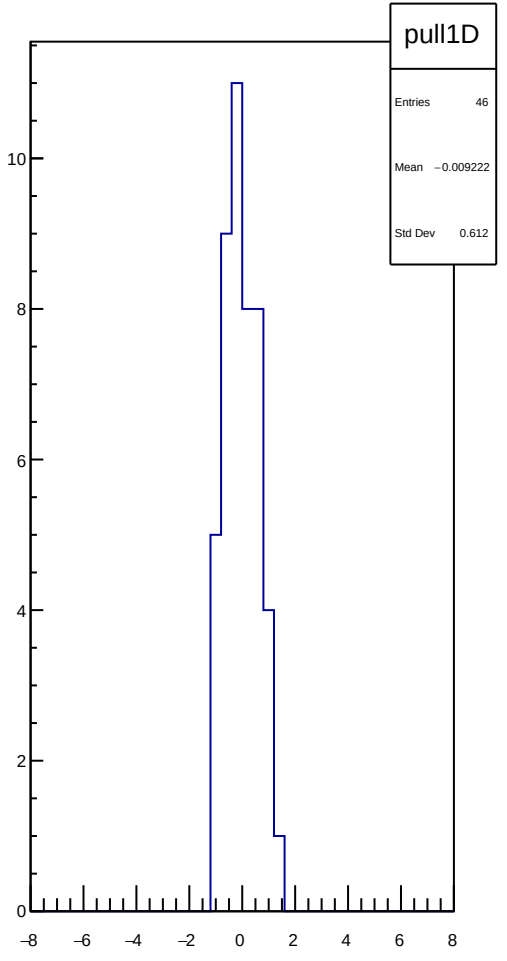

pull1D
Entries 46
Mean 0.005324
Std Dev 0.2773

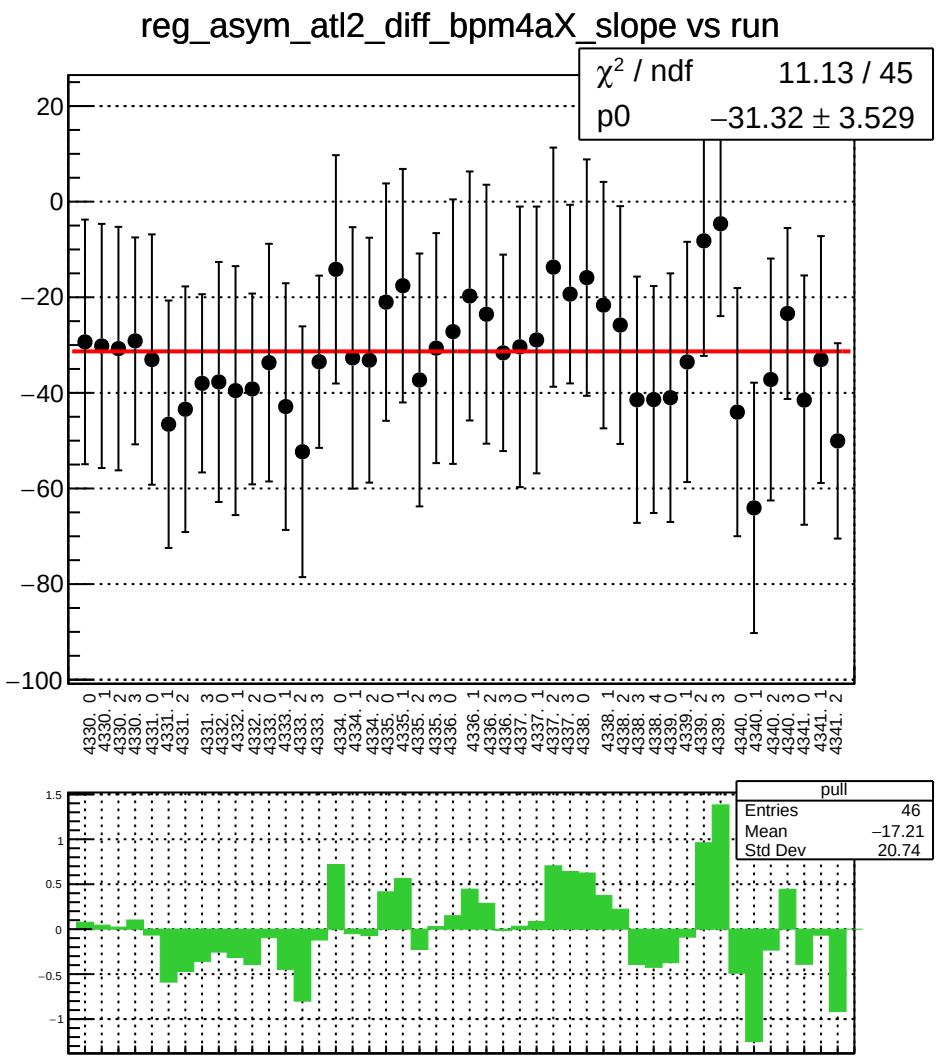

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 30.18 / 45
p0 −98.66 ± 0.6731
−85
−90
−95
−100
−105
−110
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −193.7
Std Dev 224.9
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01797
Std Dev 0.8098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

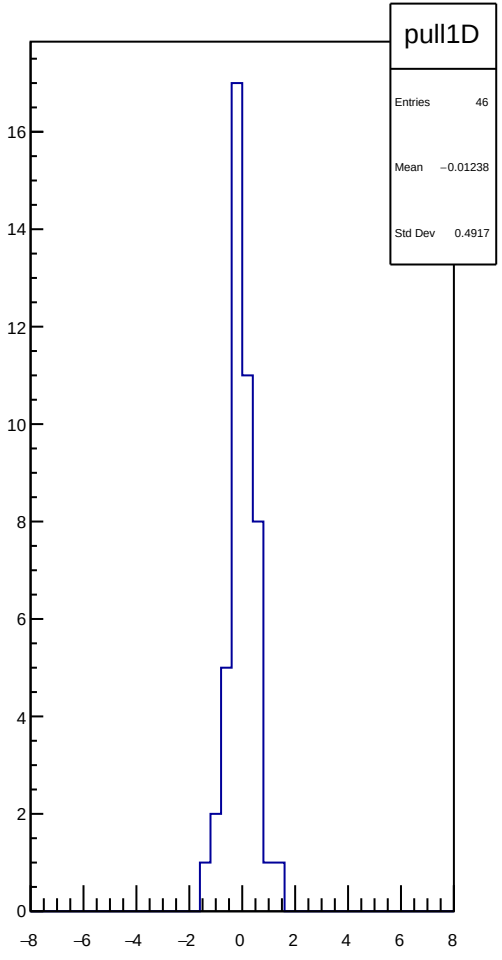

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.835 / 45
p0 117.7 ± 4.576
pull
Entries 46
Mean −294.1
Std Dev 324.2

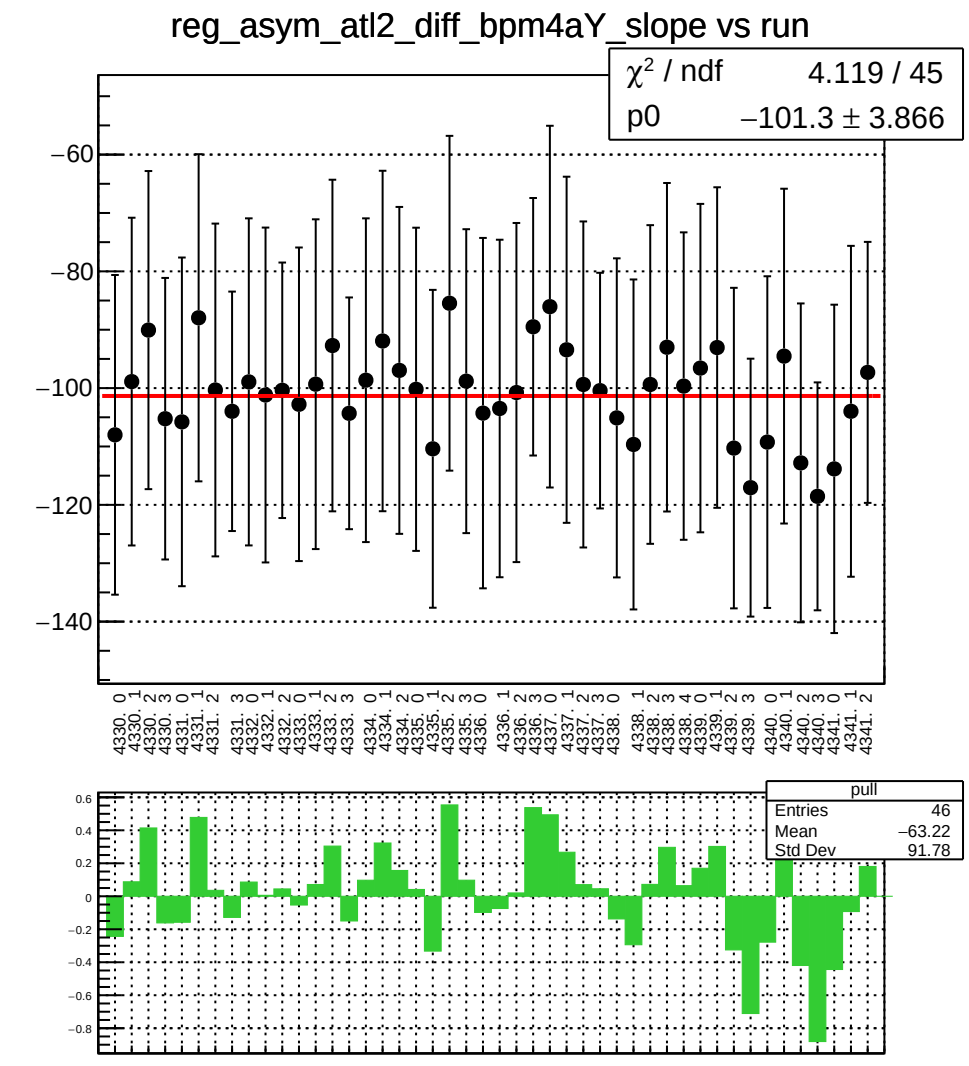

pull1D
Entries 46
Mean −0.003321
Std Dev 0.2482

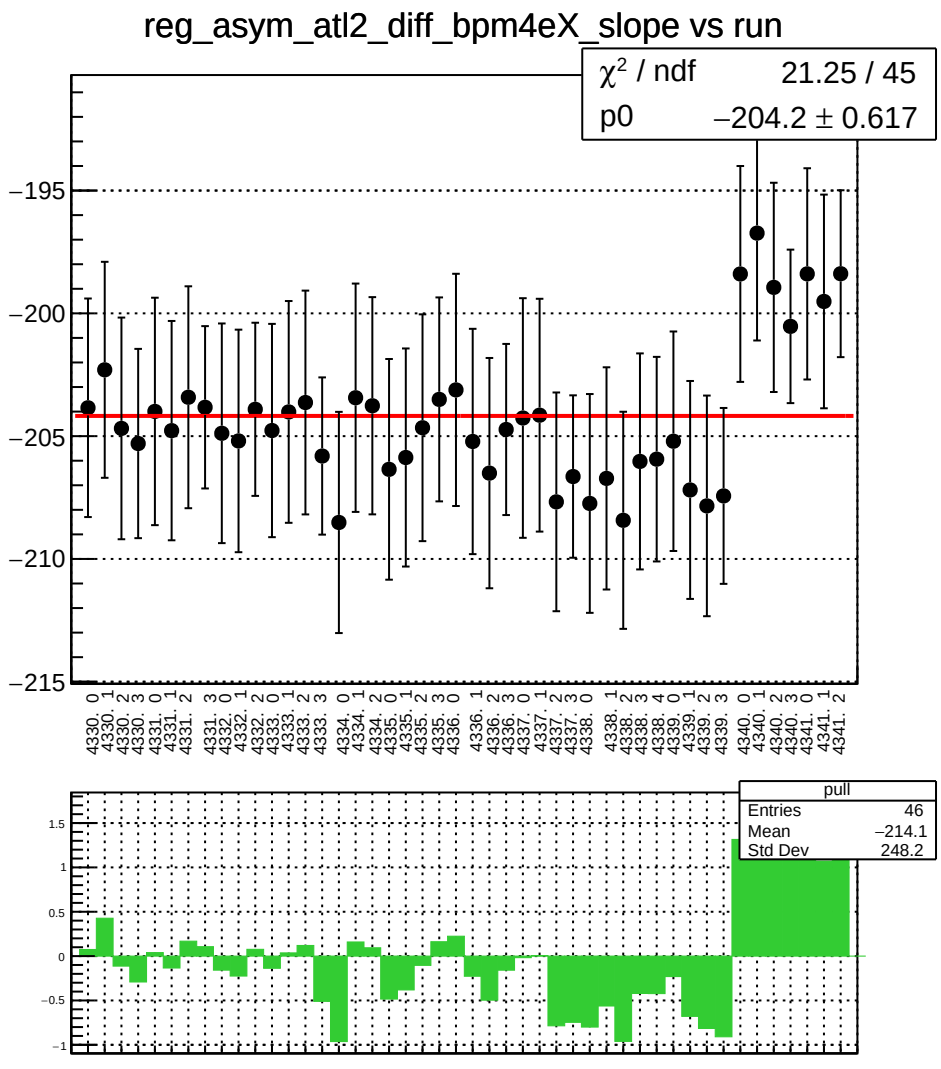

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 17.23 / 45
p0 −398.4 ± 0.8211
−385
−390
−395
−400
−405
−410
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −381.2
Std Dev 400.1
1
0.5
0
−0.5
−1

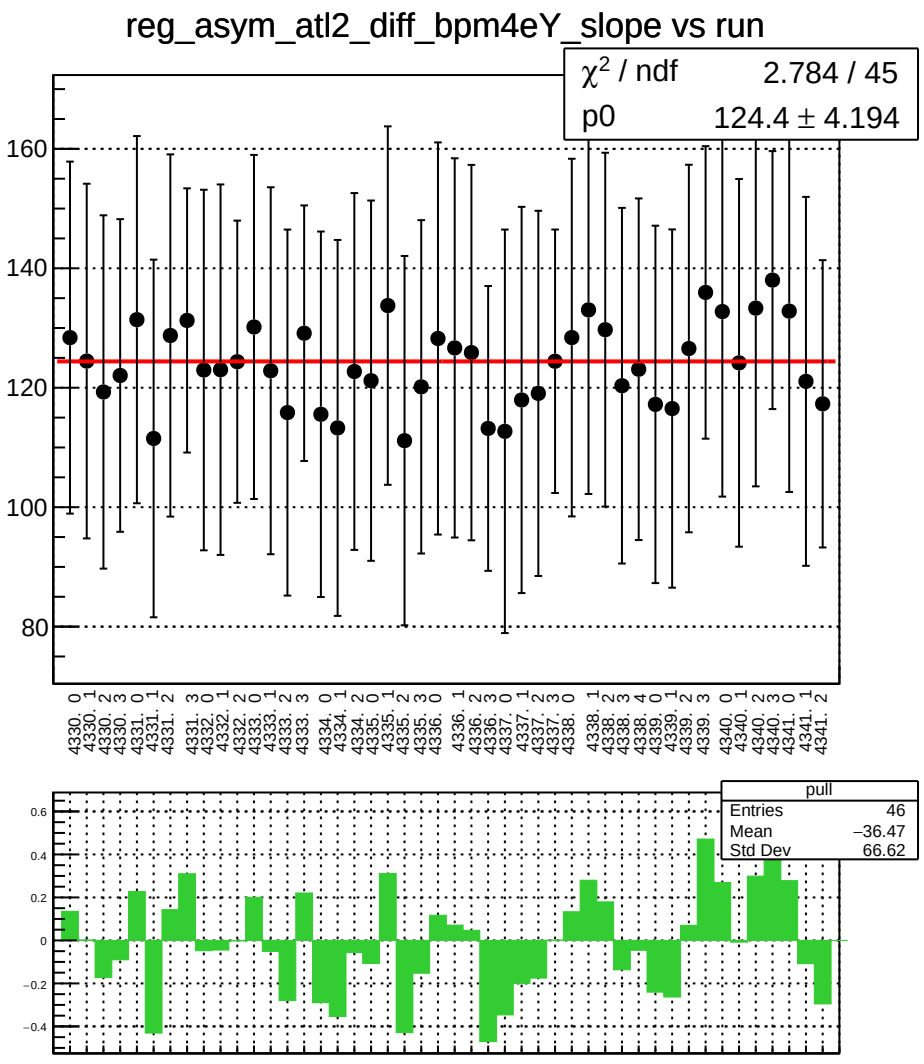

pull1D
Entries 46
Mean −0.009222
Std Dev 0.612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

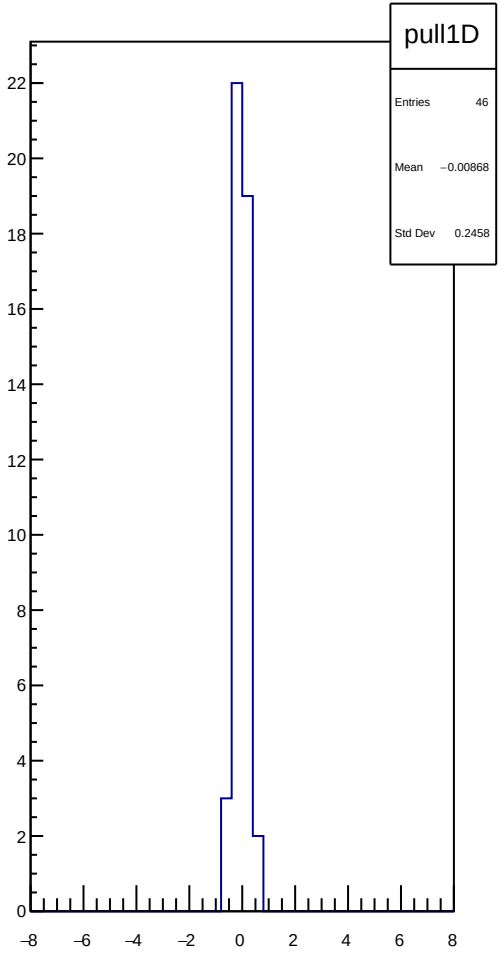

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 11.13 / 45
p0 −31.32 ± 3.529
pull
Entries 46
Mean −17.21
Std Dev 20.74

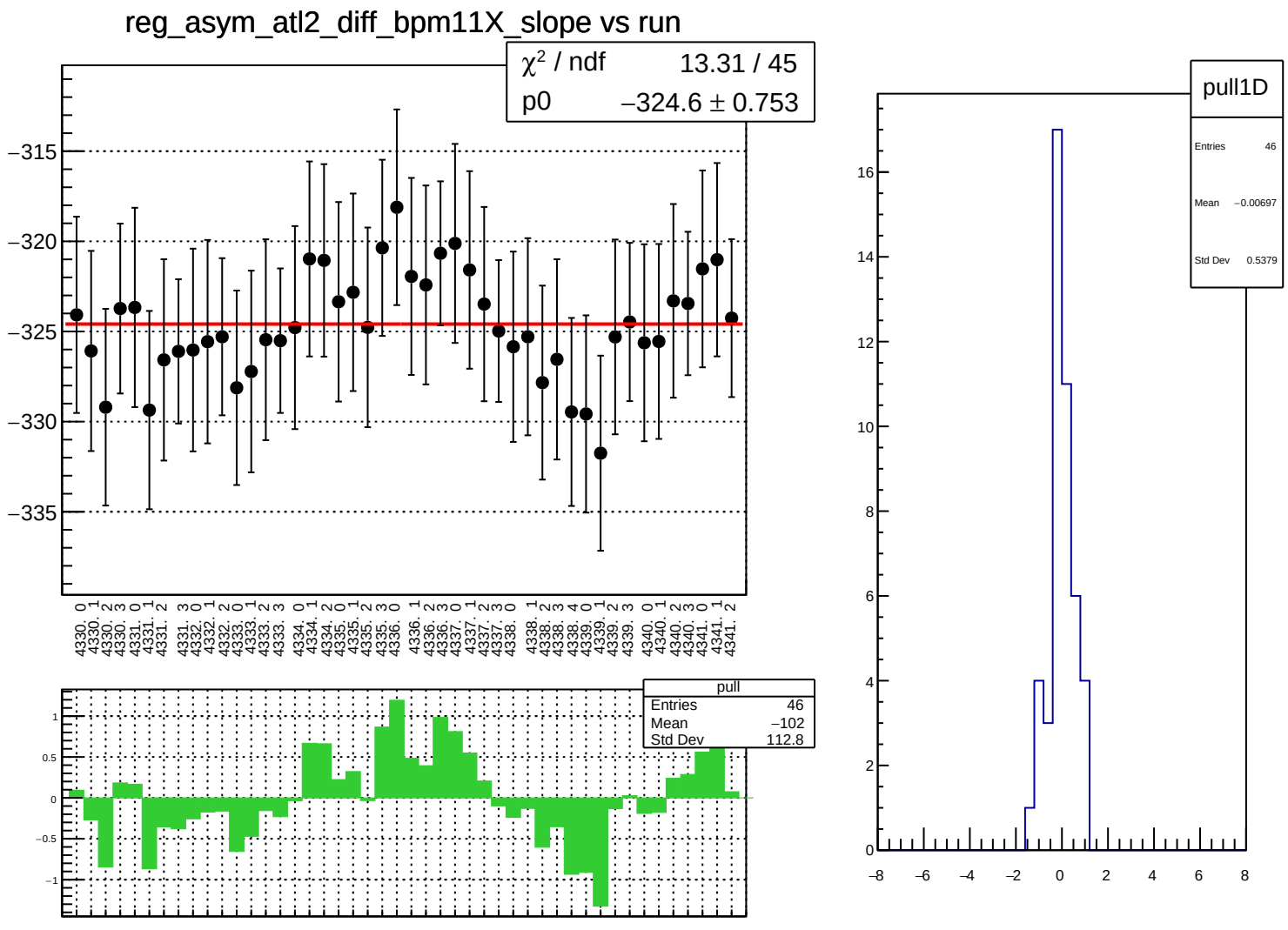

pull1D
Entries 46
Mean −0.01238
Std Dev 0.4917

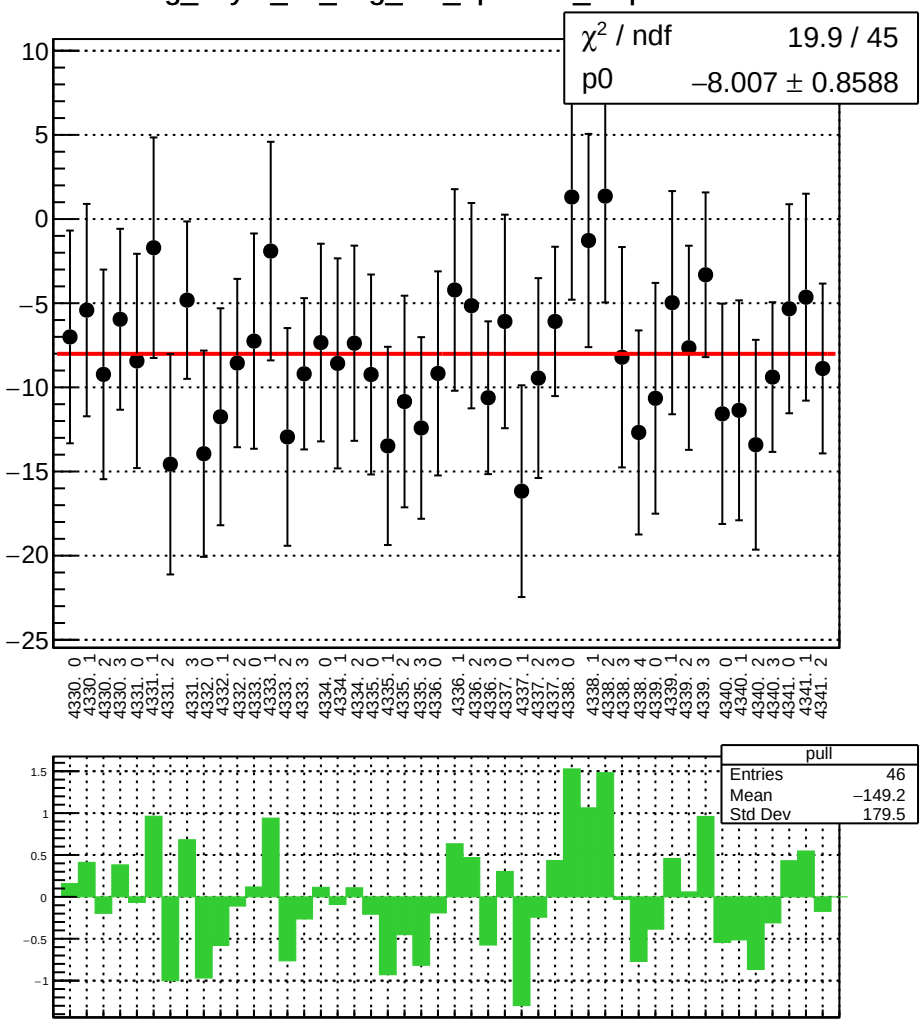

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.119 / 45
p0 −101.3 ± 3.866
−60
−80
−100
−120
−140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −63.22
Std Dev 91.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.01251
Std Dev 0.299
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

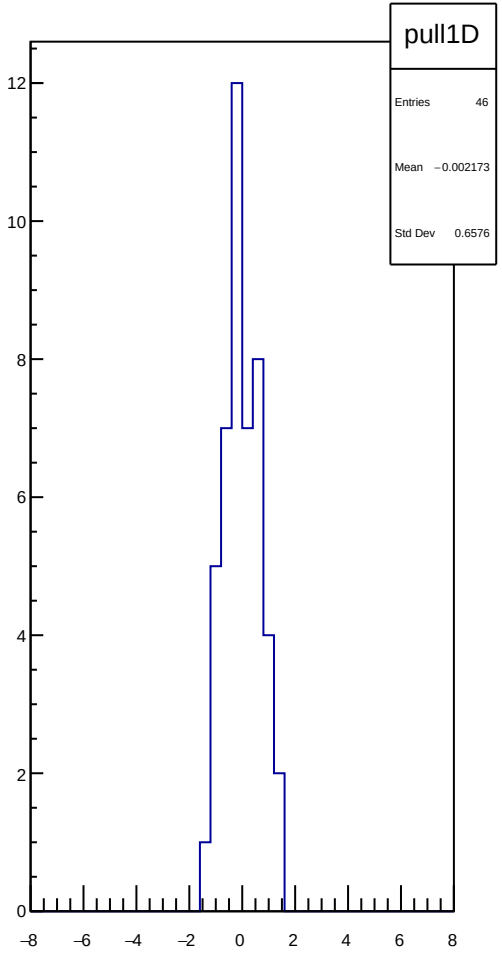

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 21.25 / 45
p0 −204.2 ± 0.617
−195
−200
−205
−210
−215
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −214.1
Std Dev 248.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01105
Std Dev 0.6796
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

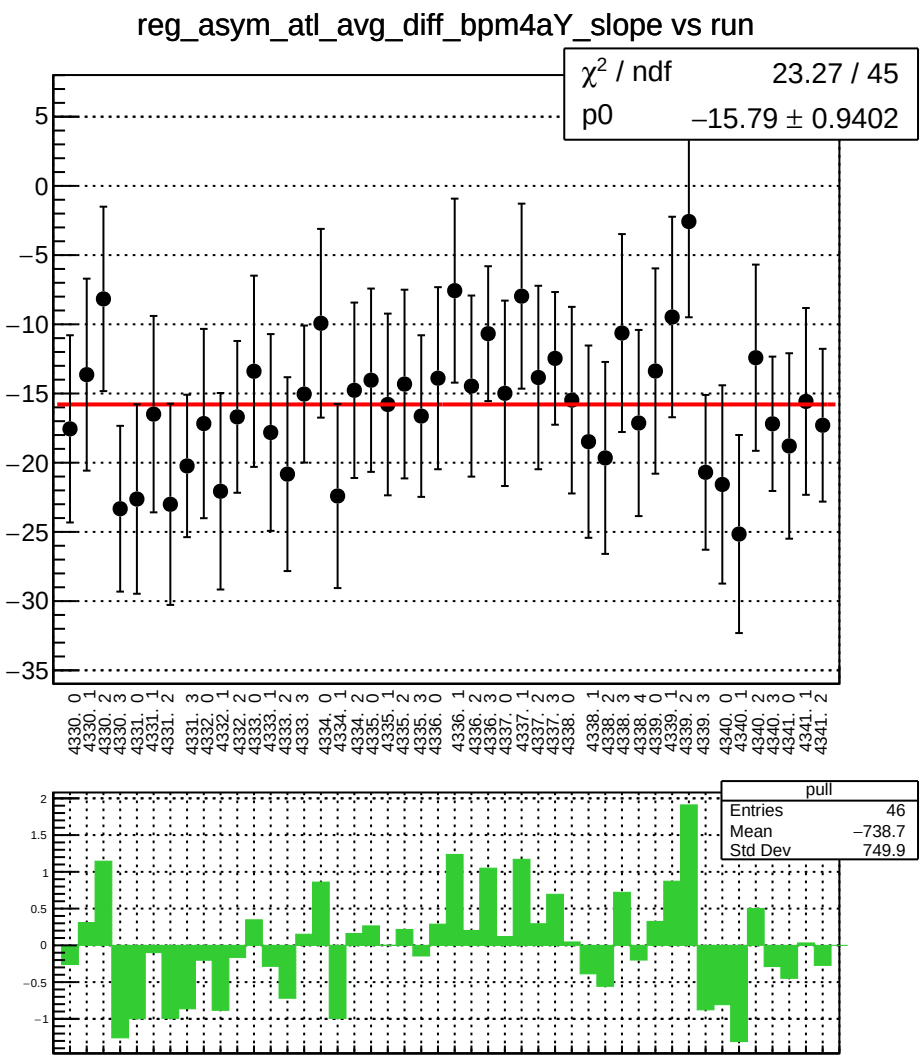

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.784 / 45
p0 124.4 ± 4.194
160
140
120
100
80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −36.47
Std Dev 66.62
0.6
0.4
0.2
0
−0.2
−0.4

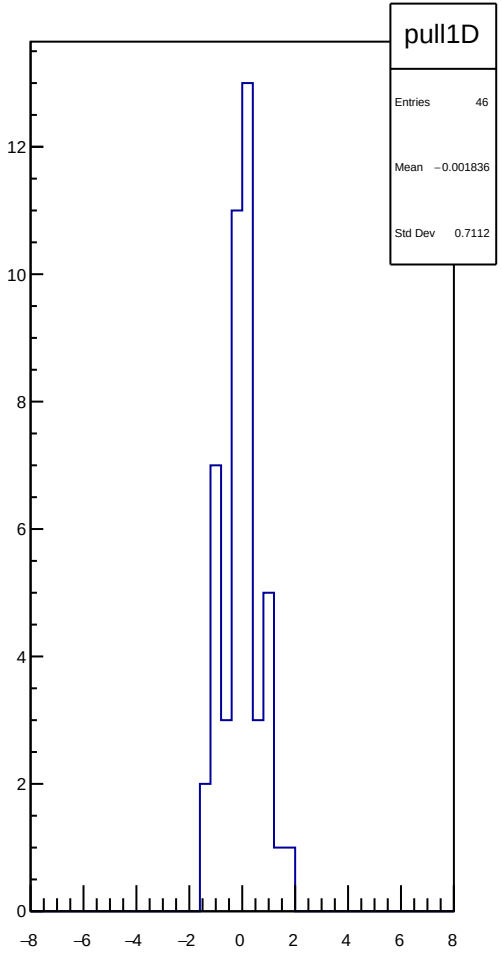

pull1D
Entries 46
Mean −0.00868
Std Dev 0.2458
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

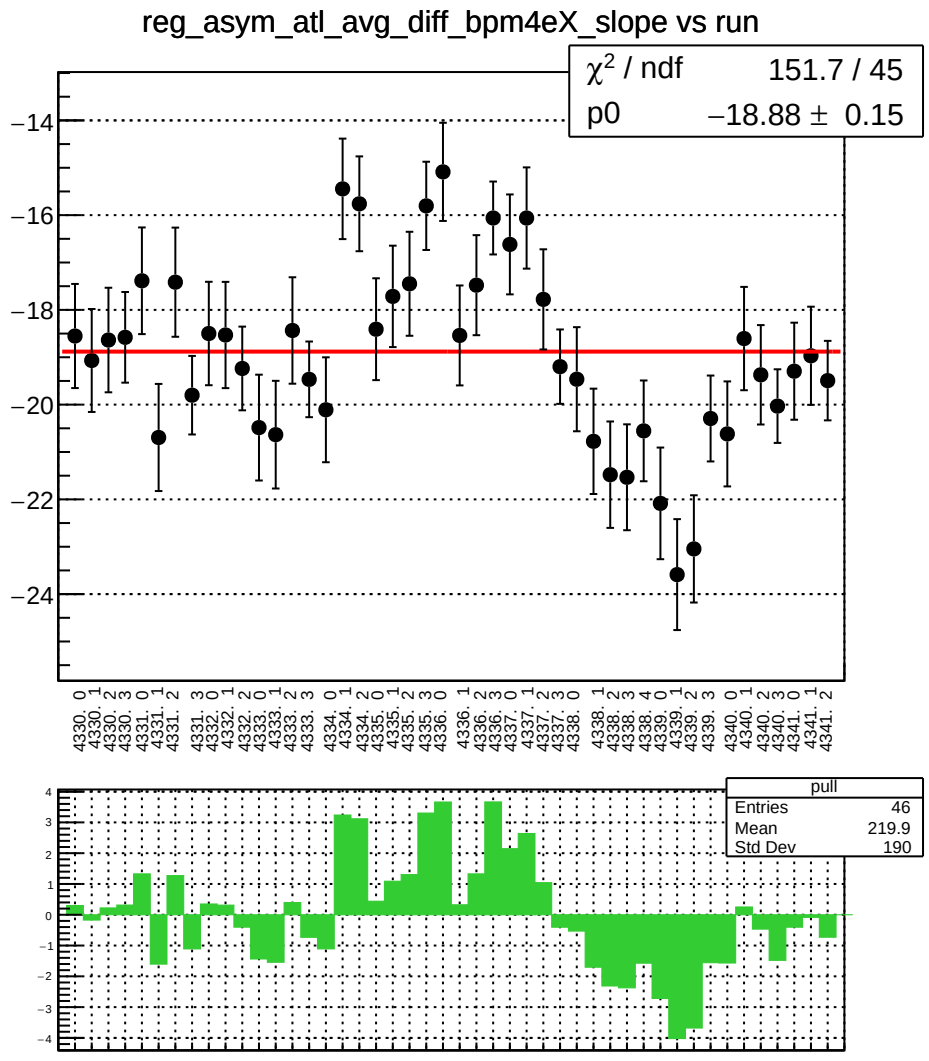

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 13.31 / 45
p0 −324.6 ± 0.753
−315
−320
−325
−330
−335
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −102
Std Dev 112.8
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.00697
Std Dev 0.5379
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

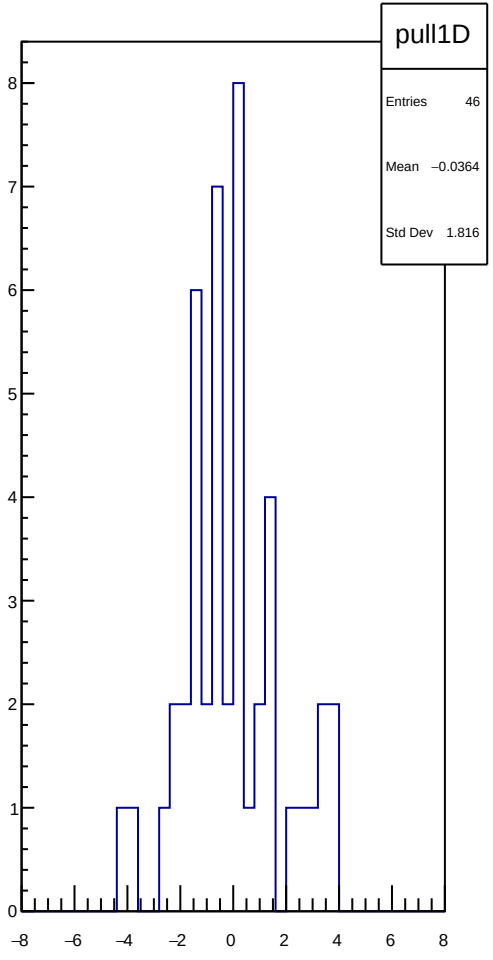

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.9 / 45
p0 −8.007 ± 0.8588
pull
Entries 46
Mean −149.2
Std Dev 179.5

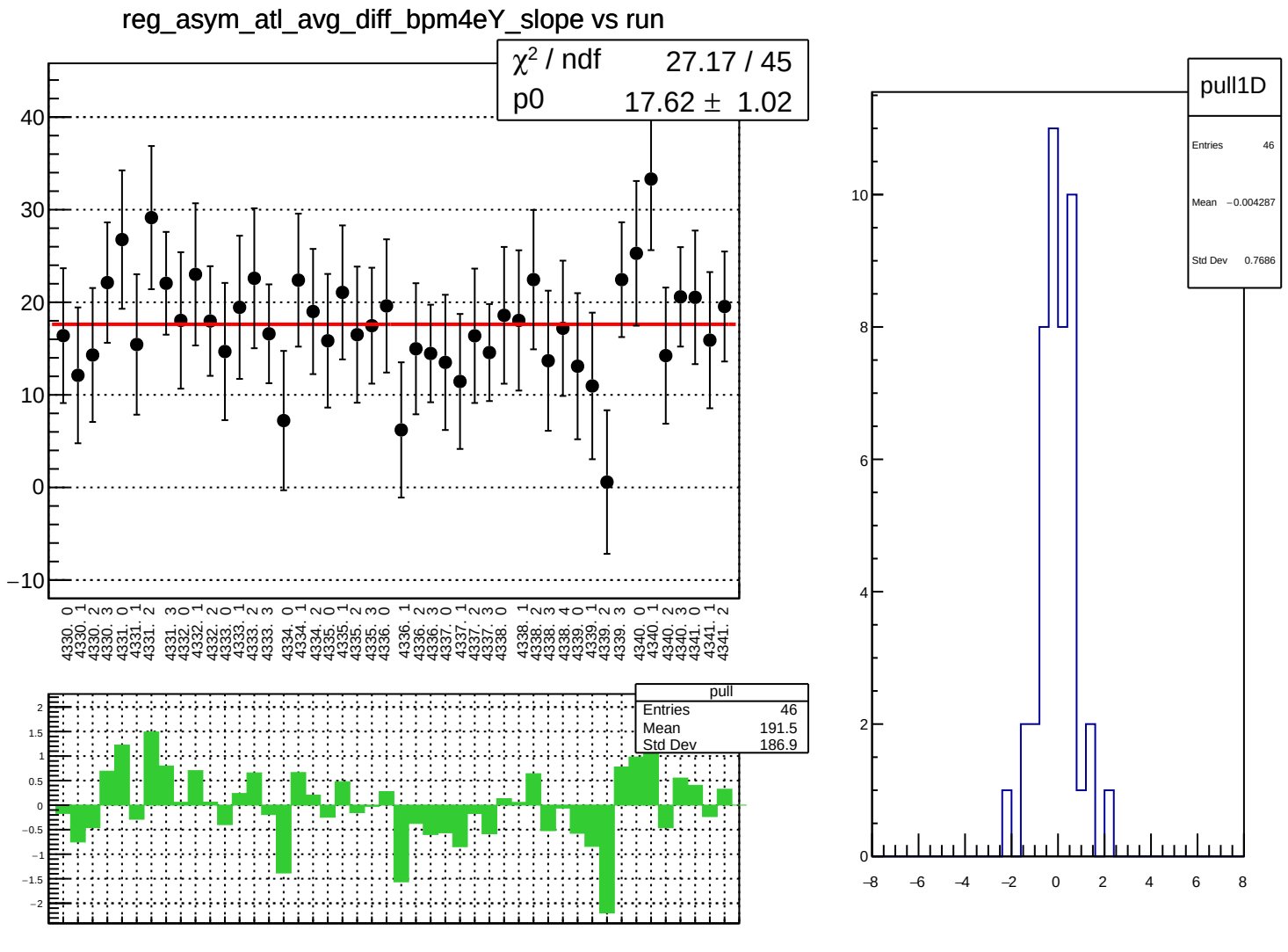

pull1D
Entries 46
Mean −0.002173
Std Dev 0.6576

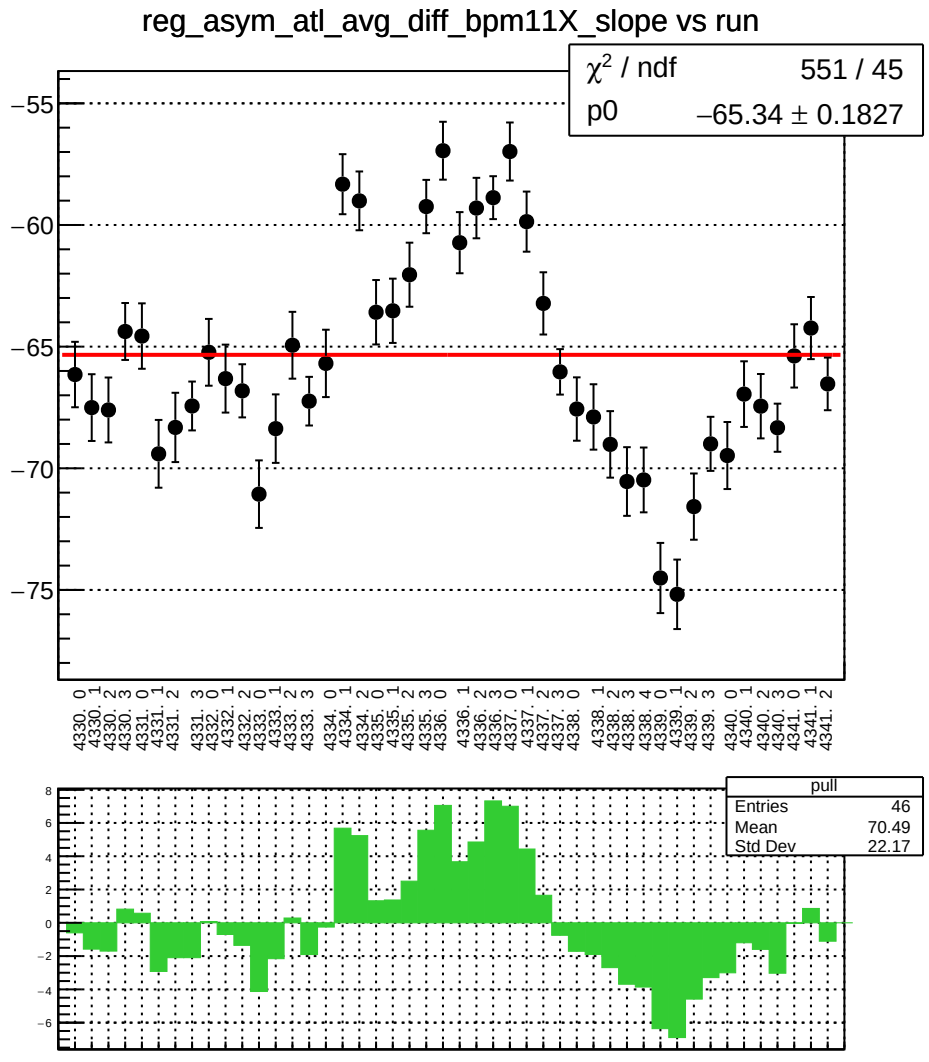

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.27 / 45
p0 −15.79 ± 0.9402
pull
Entries 46
Mean −738.7
Std Dev 749.9

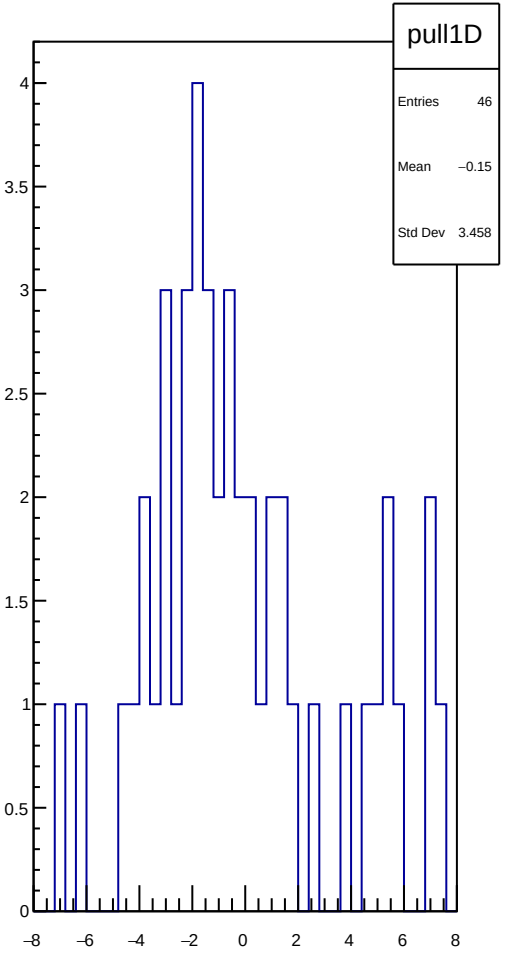

pull1D
Entries 46
Mean −0.001836
Std Dev 0.7112

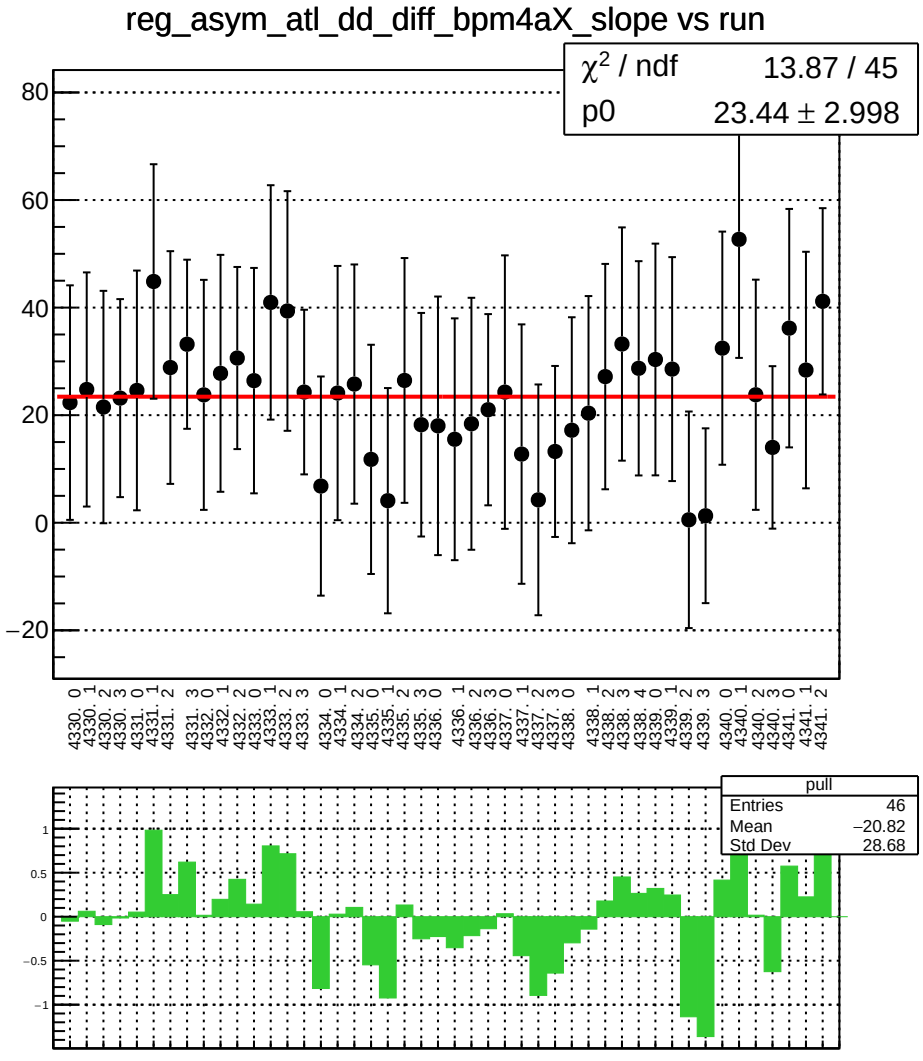

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 151.7 / 45
p0 −18.88 ± 0.15
pull
Entries 46
Mean 219.9
Std Dev 190

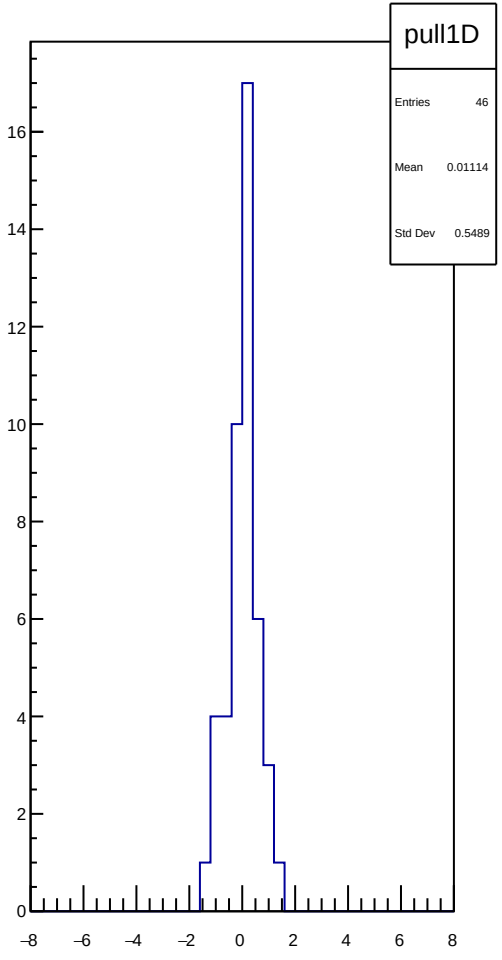

pull1D
Entries 46
Mean −0.0364
Std Dev 1.816

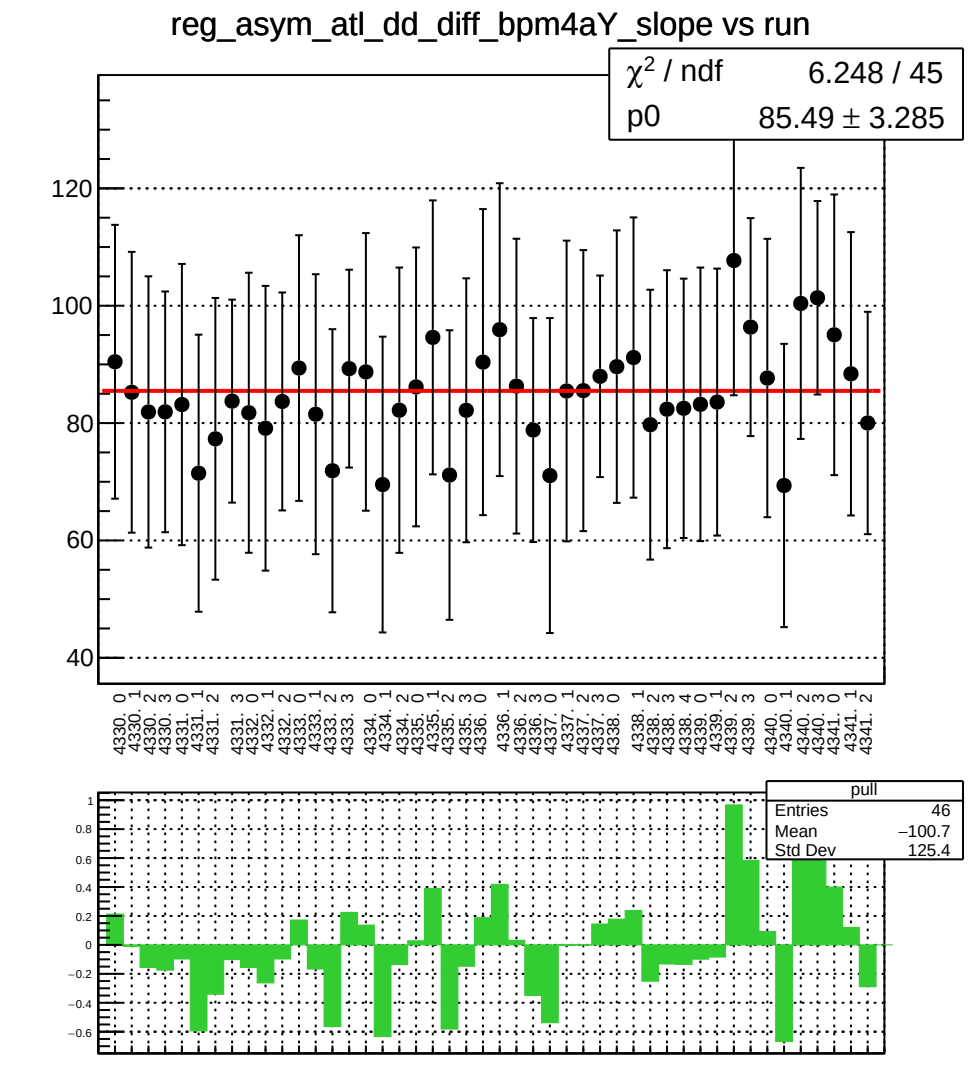

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.17 / 45
p0 17.62 ± 1.02
pull
Entries 46
Mean 191.5
Std Dev 186.9
pull1D
Entries 46
Mean −0.004287
Std Dev 0.7686

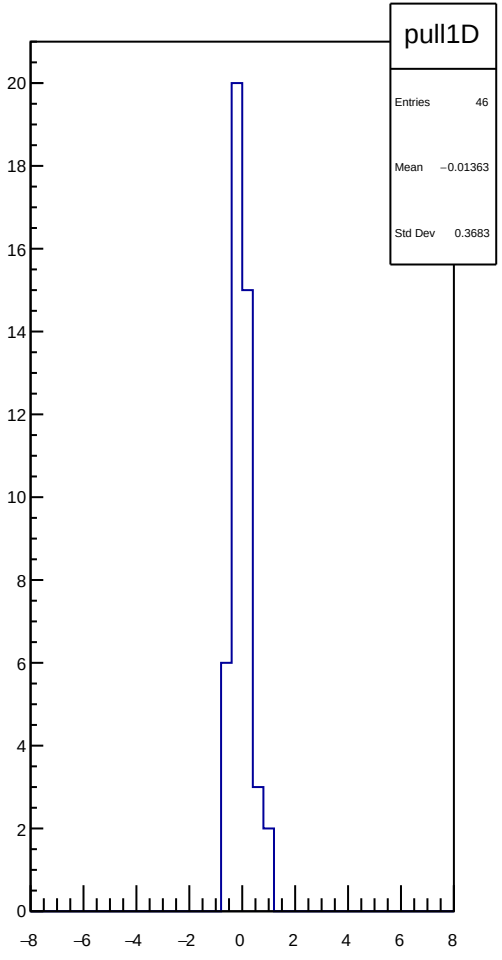

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 551 / 45
p0 −65.34 ± 0.1827
pull
Entries 46
Mean 70.49
Std Dev 22.17

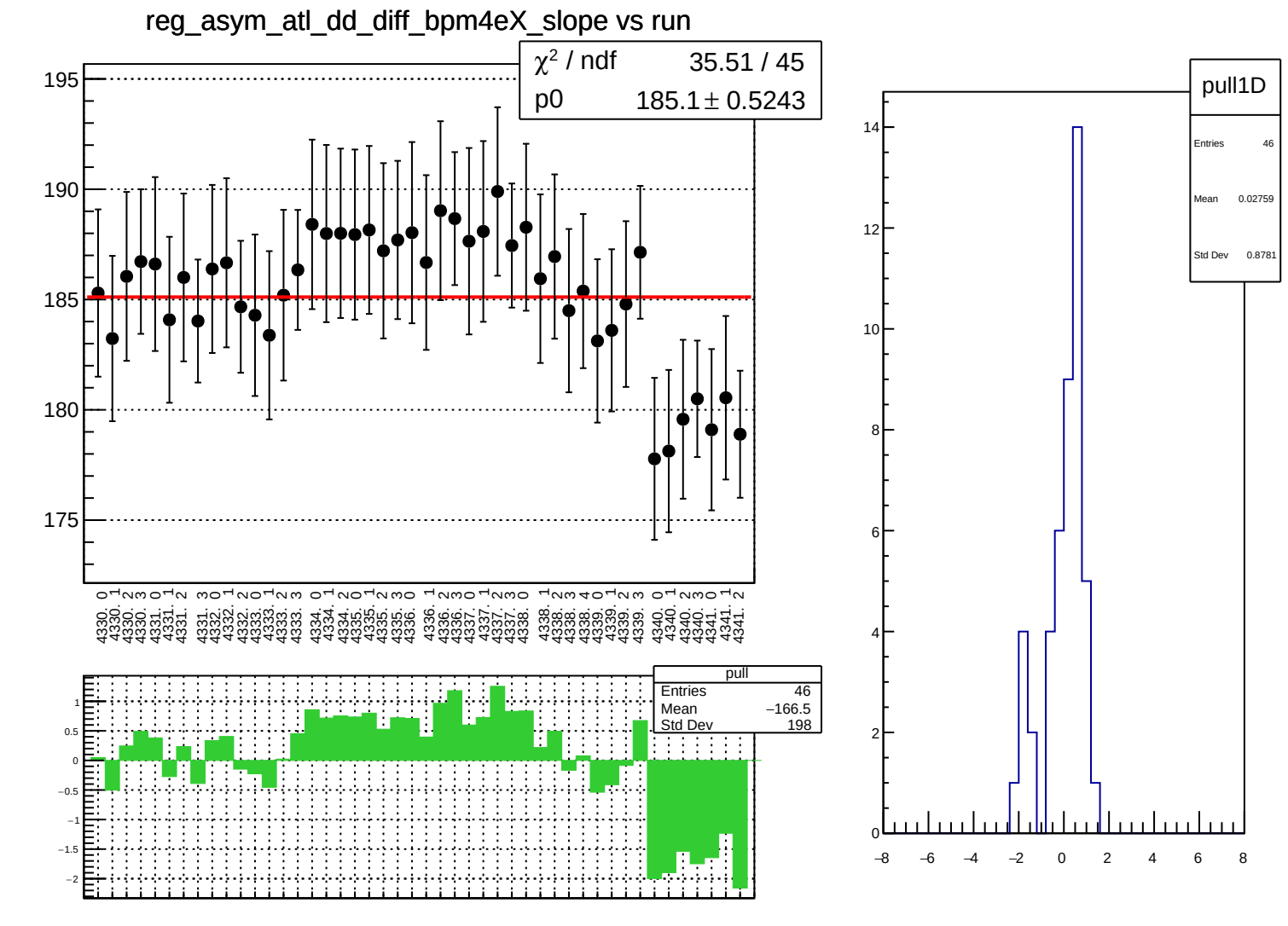

pull1D
Entries 46
Mean −0.15
Std Dev 3.458

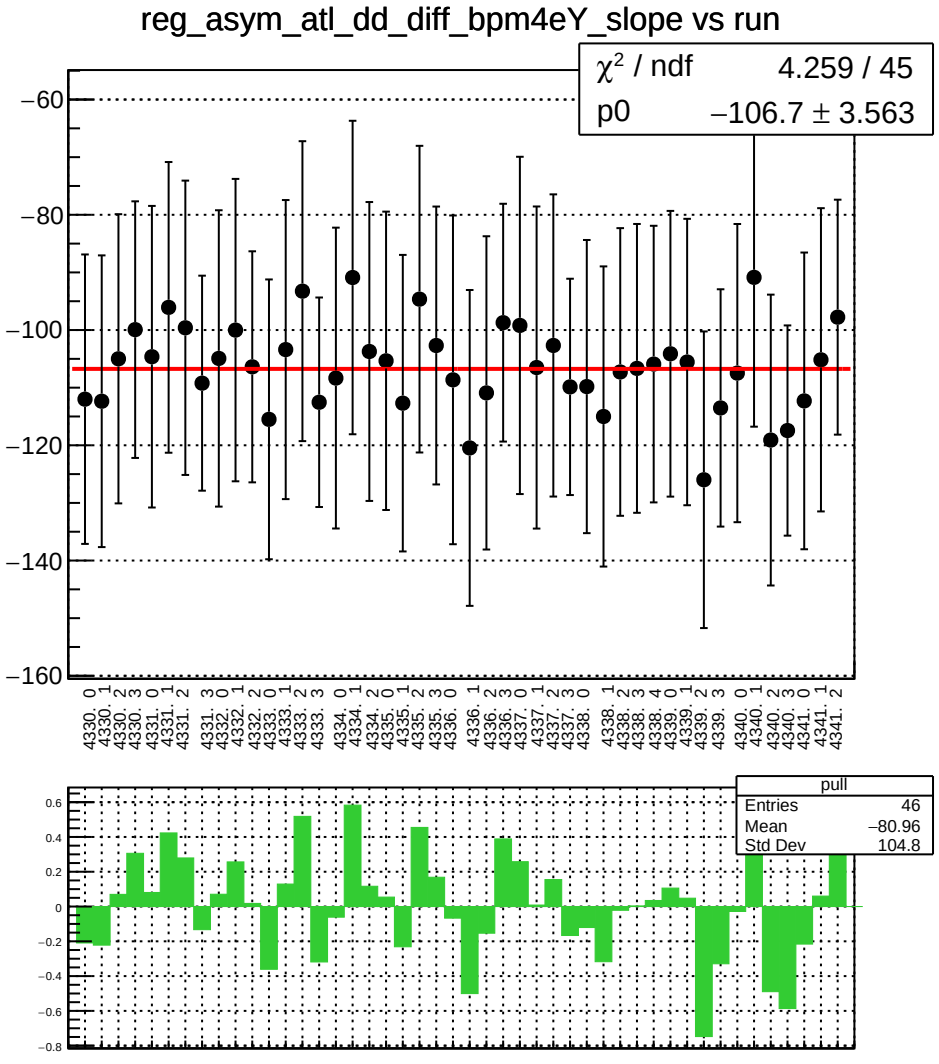

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.87 / 45
p0 23.44 ± 2.998
pull
Entries 46
Mean −20.82
Std Dev 28.68

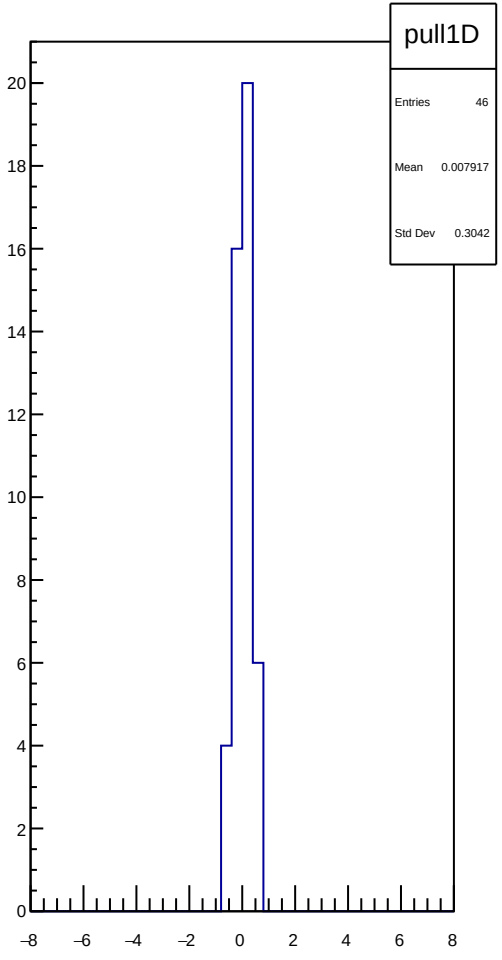

pull1D
Entries 46
Mean 0.01114
Std Dev 0.5489

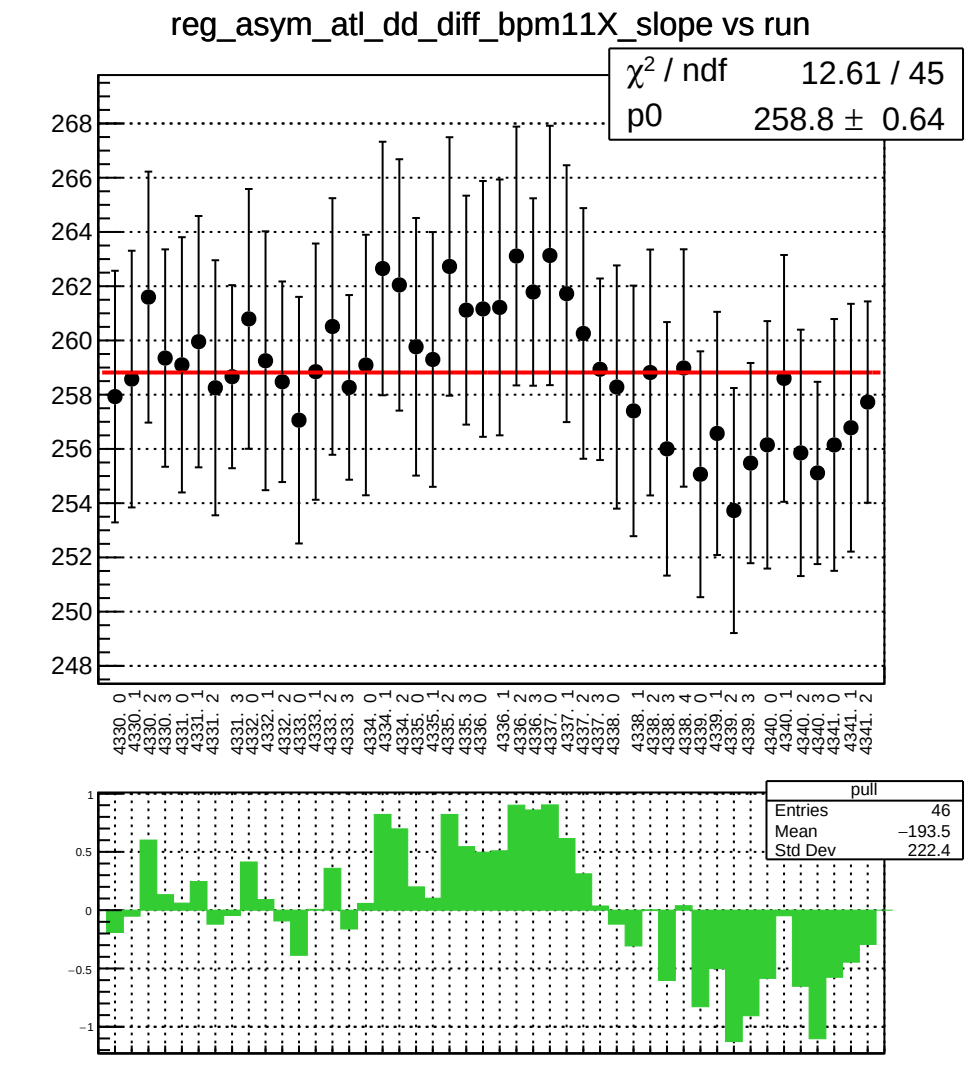

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.248 / 45
p0 85.49 ± 3.285
120
100
80
60
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −100.7
Std Dev 125.4
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

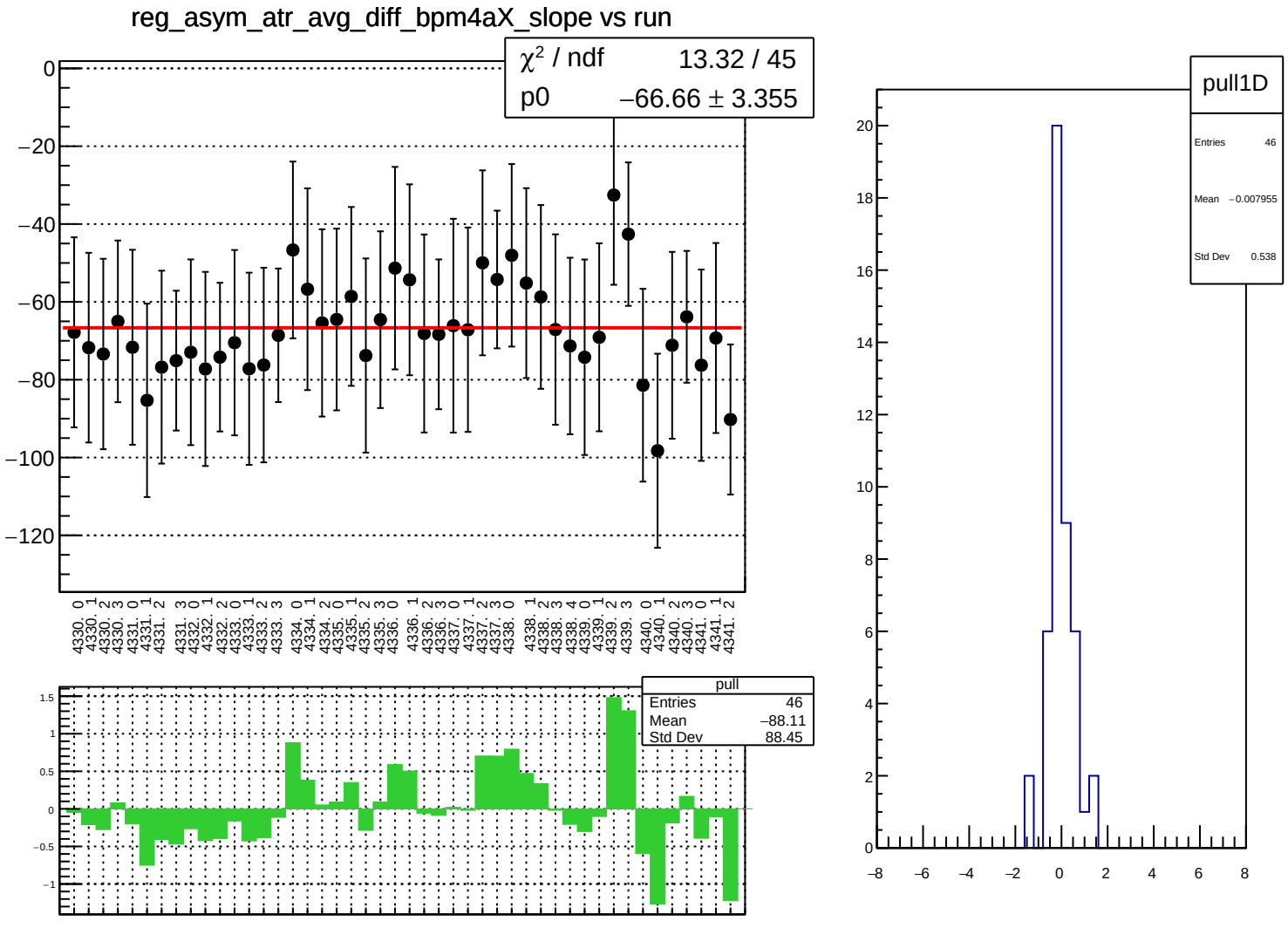

pull1D
Entries 46
Mean −0.01363
Std Dev 0.3683
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

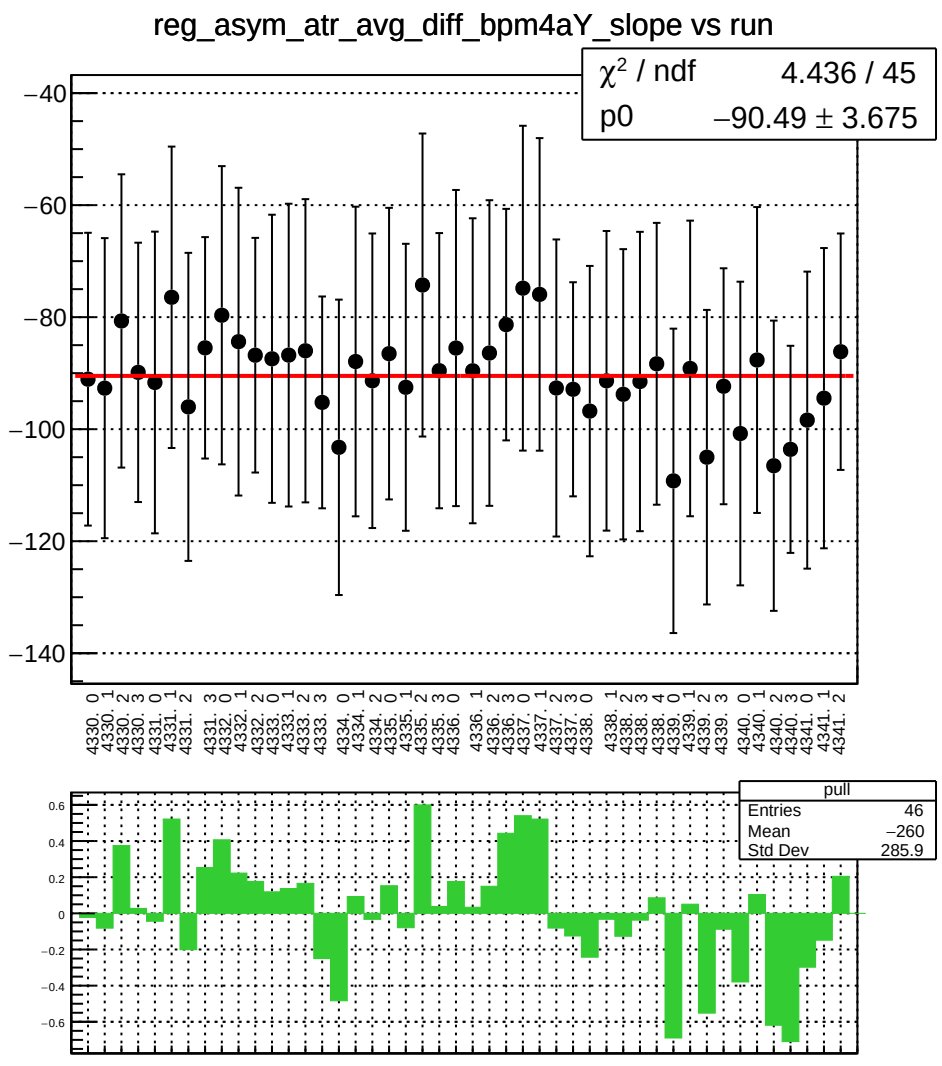

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.51 / 45
p0 185.1 ± 0.5243
195
190
185
180
175
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −166.5
Std Dev 198
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02759
Std Dev 0.8781
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

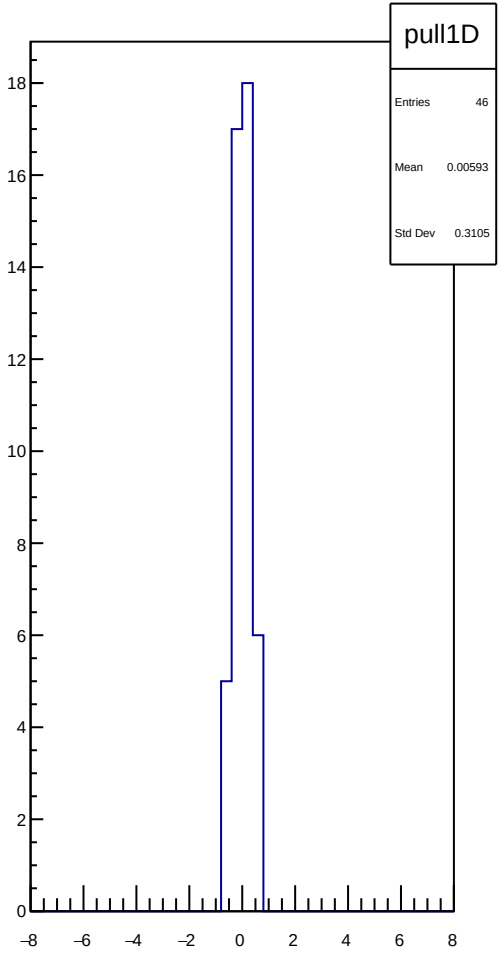

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.259 / 45
p0 −106.7 ± 3.563
pull
Entries 46
Mean −80.96
Std Dev 104.8

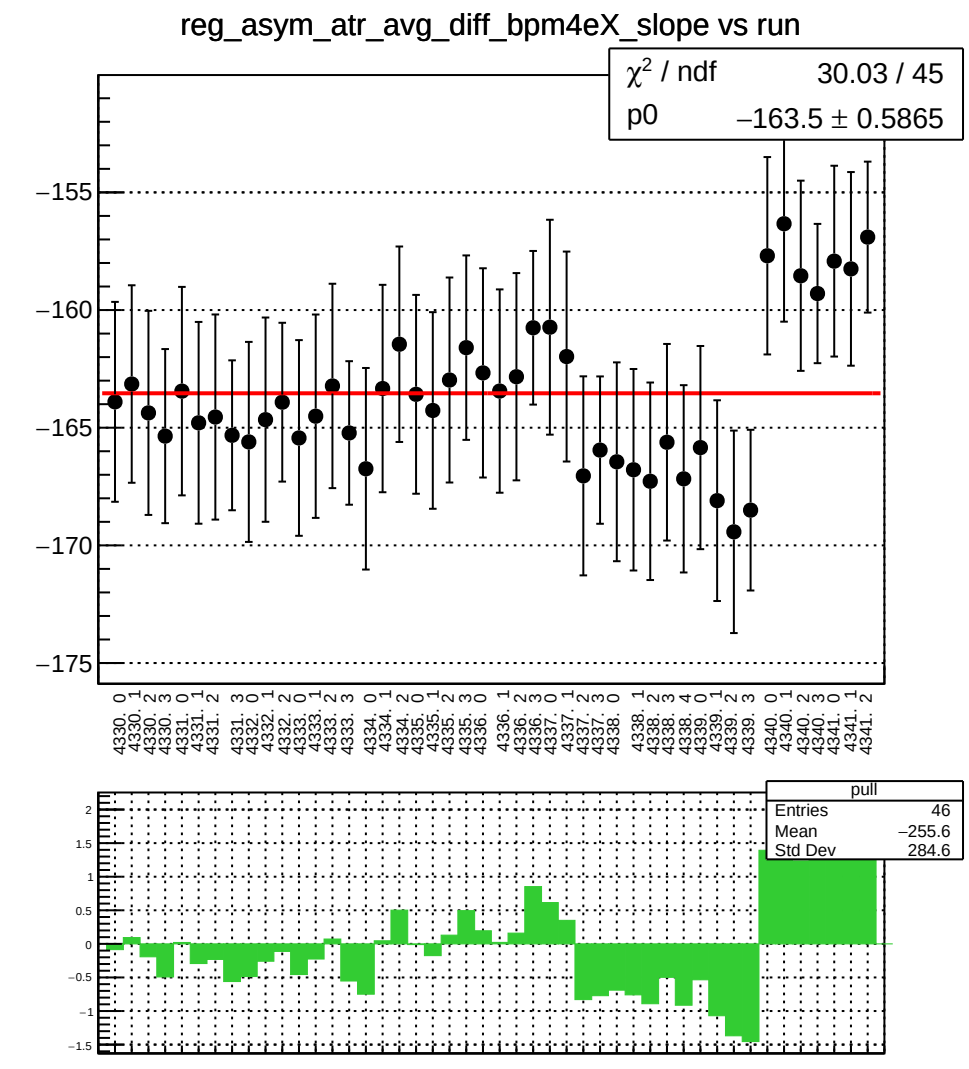

pull1D
Entries 46
Mean 0.007917
Std Dev 0.3042

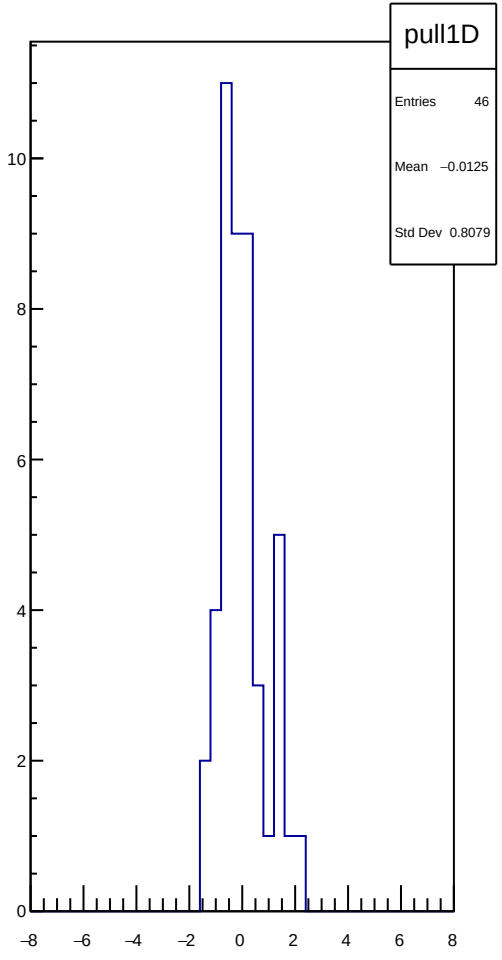

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 12.61 / 45
p0 258.8 ± 0.64
268
266
264
262
260
258
256
254
252
250
248
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −193.5
Std Dev 222.4
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.01478
Std Dev 0.5234
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

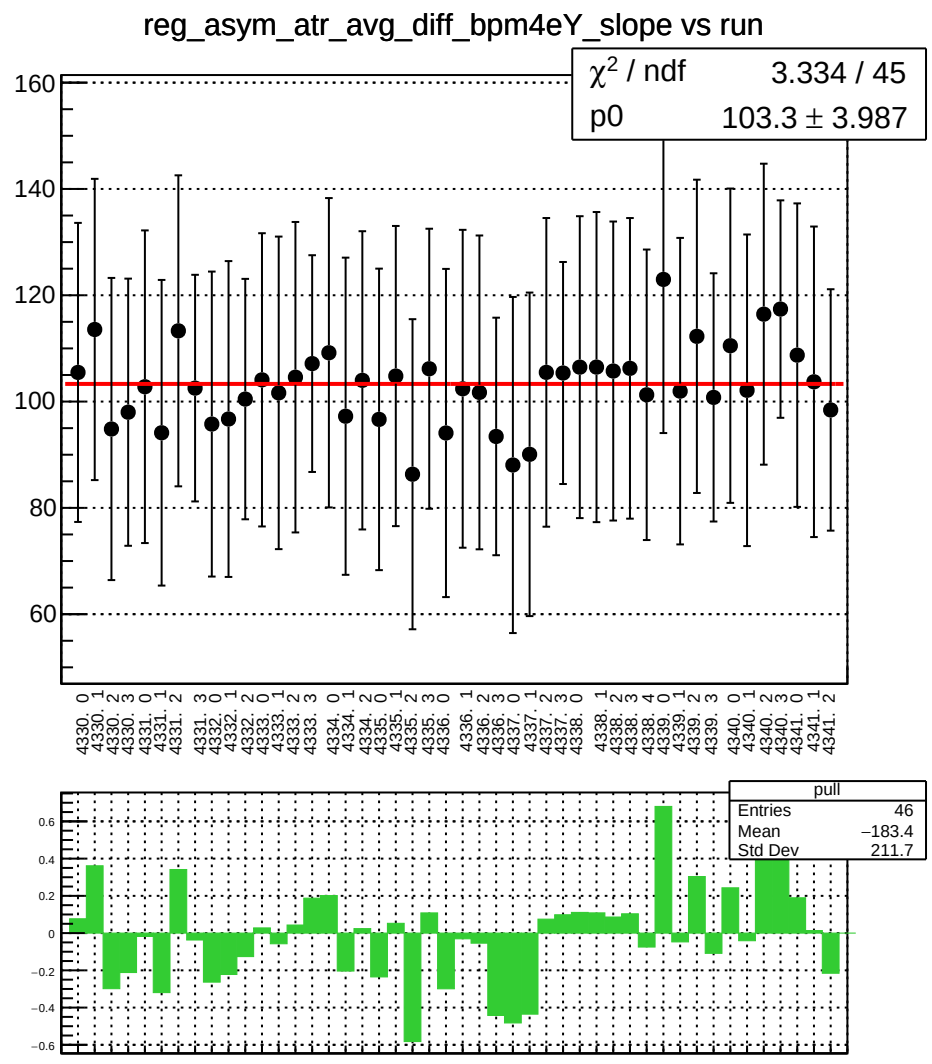

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.32 / 45
p0 −66.66 ± 3.355
pull
Entries 46
Mean −88.11
Std Dev 88.45
pull1D
Entries 46
Mean −0.007955
Std Dev 0.538

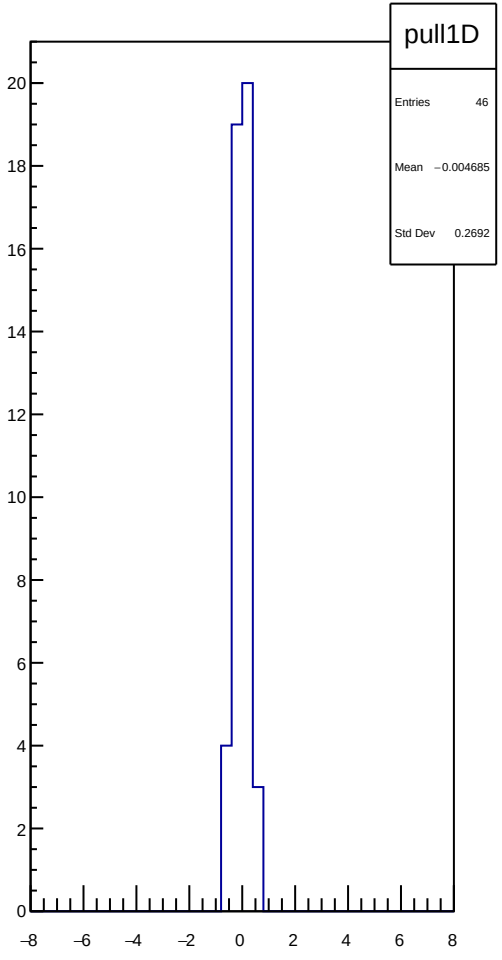

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.436 / 45
p0 −90.49 ± 3.675
pull
Entries 46
Mean −260
Std Dev 285.9

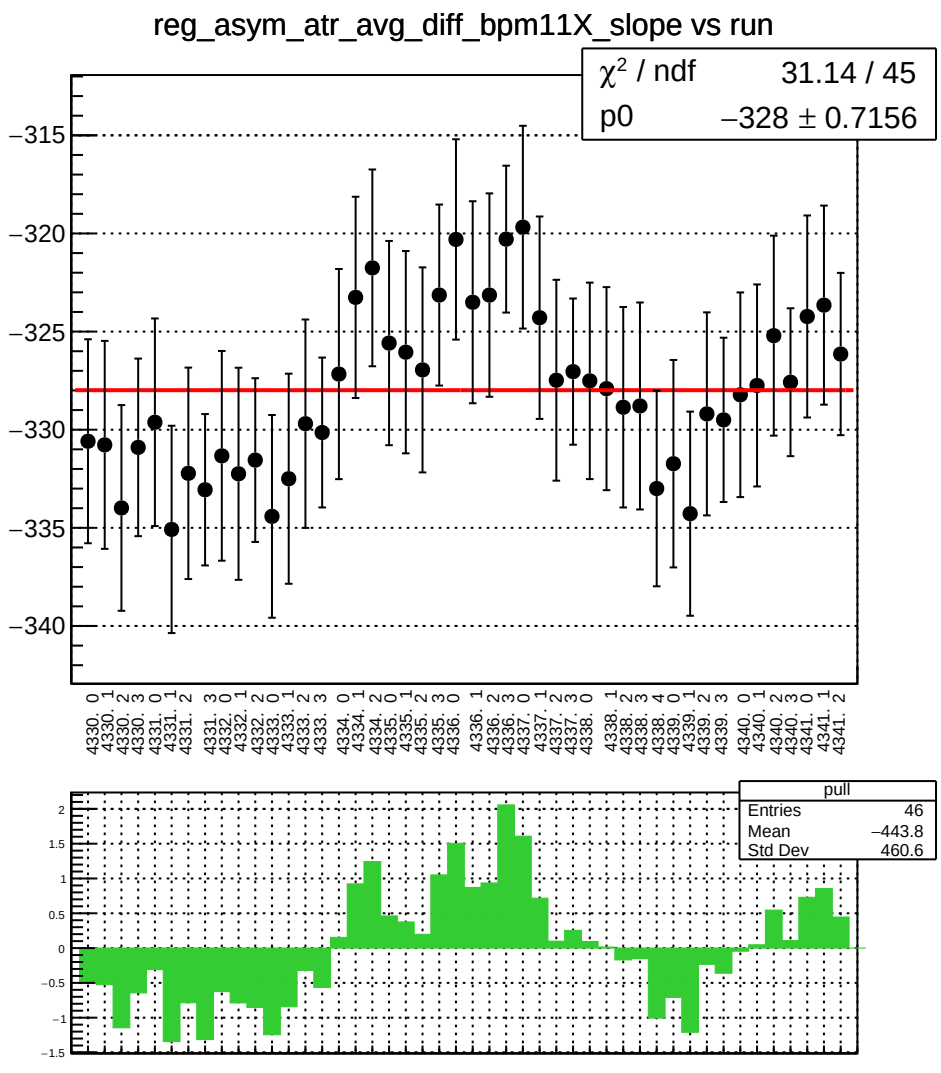

pull1D
Entries 46
Mean 0.00593
Std Dev 0.3105

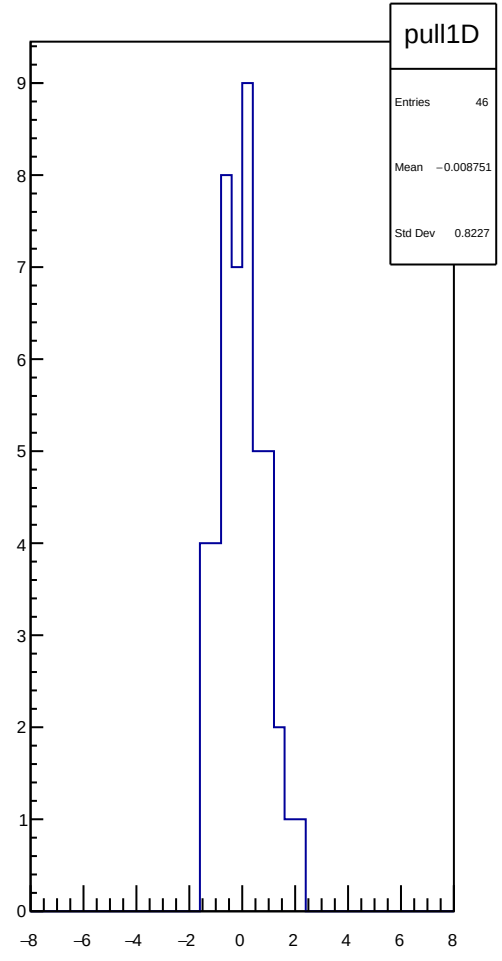

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.03 / 45
p0 −163.5 ± 0.5865
pull
Entries 46
Mean −255.6
Std Dev 284.6

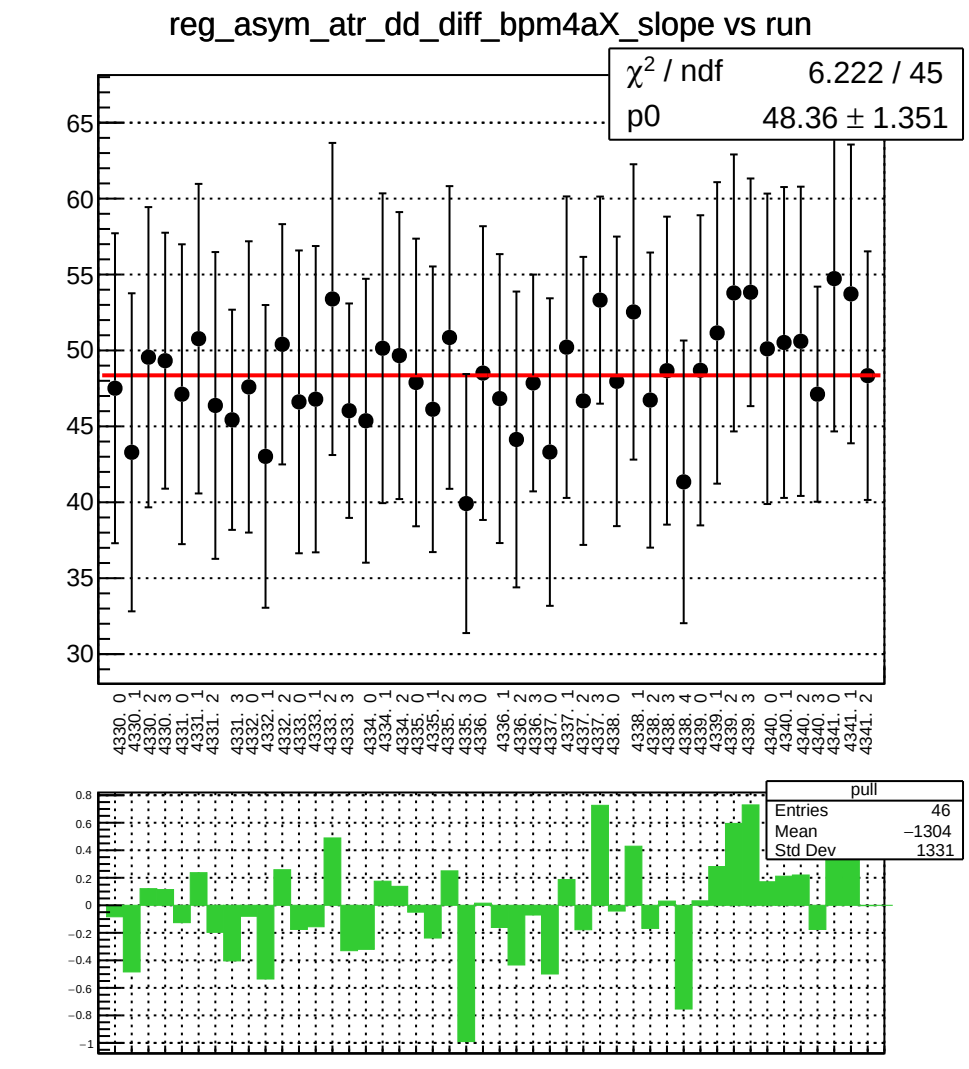

pull1D
Entries 46
Mean −0.0125
Std Dev 0.8079

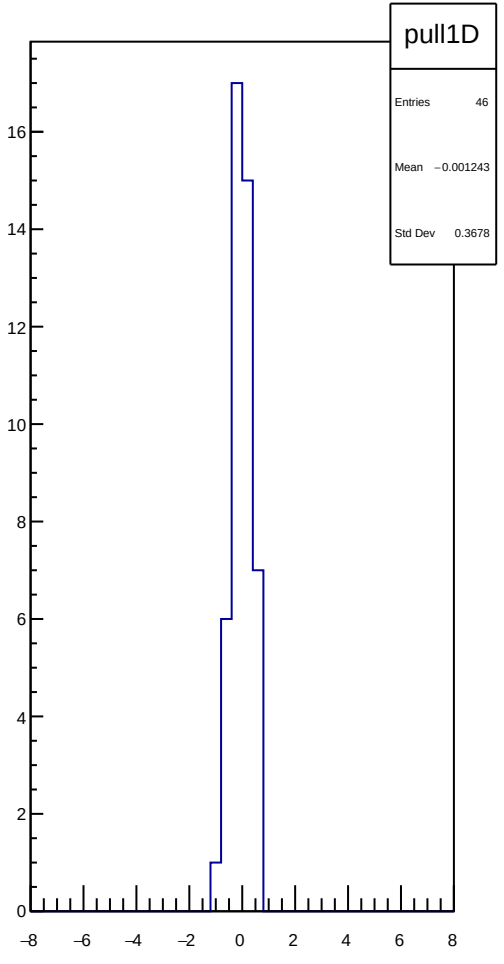

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.334 / 45
p0 103.3 ± 3.987
160
140
120
100
80
60
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −183.4
Std Dev 211.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

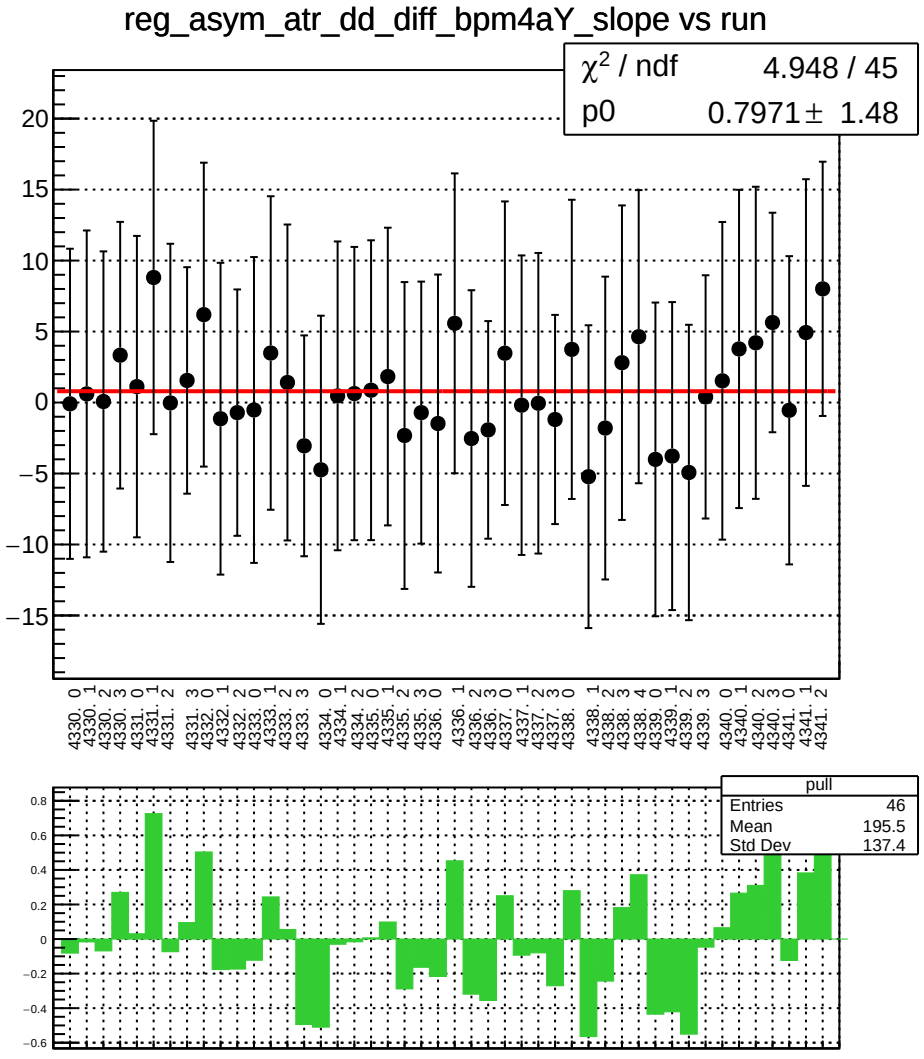

pull1D
Entries 46
Mean −0.004685
Std Dev 0.2692
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

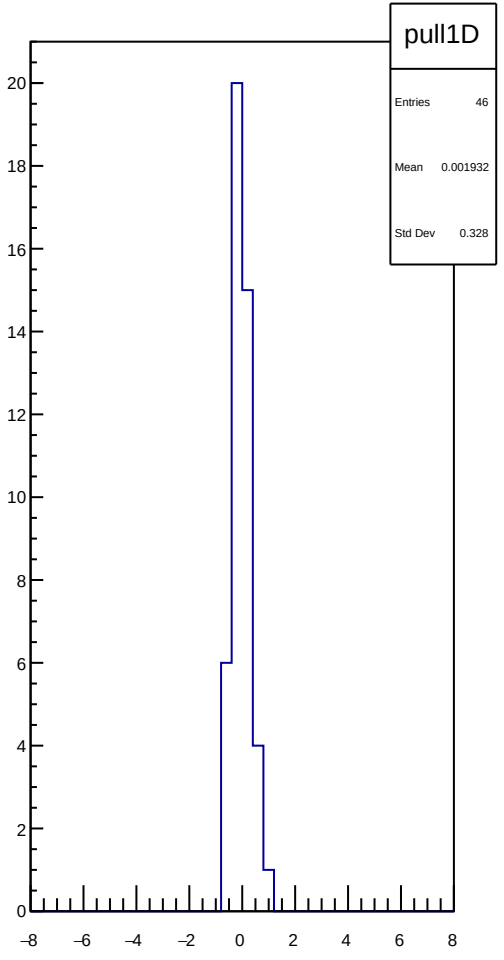

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 31.14 / 45
p0 −328 ± 0.7156
pull
Entries 46
Mean −443.8
Std Dev 460.6

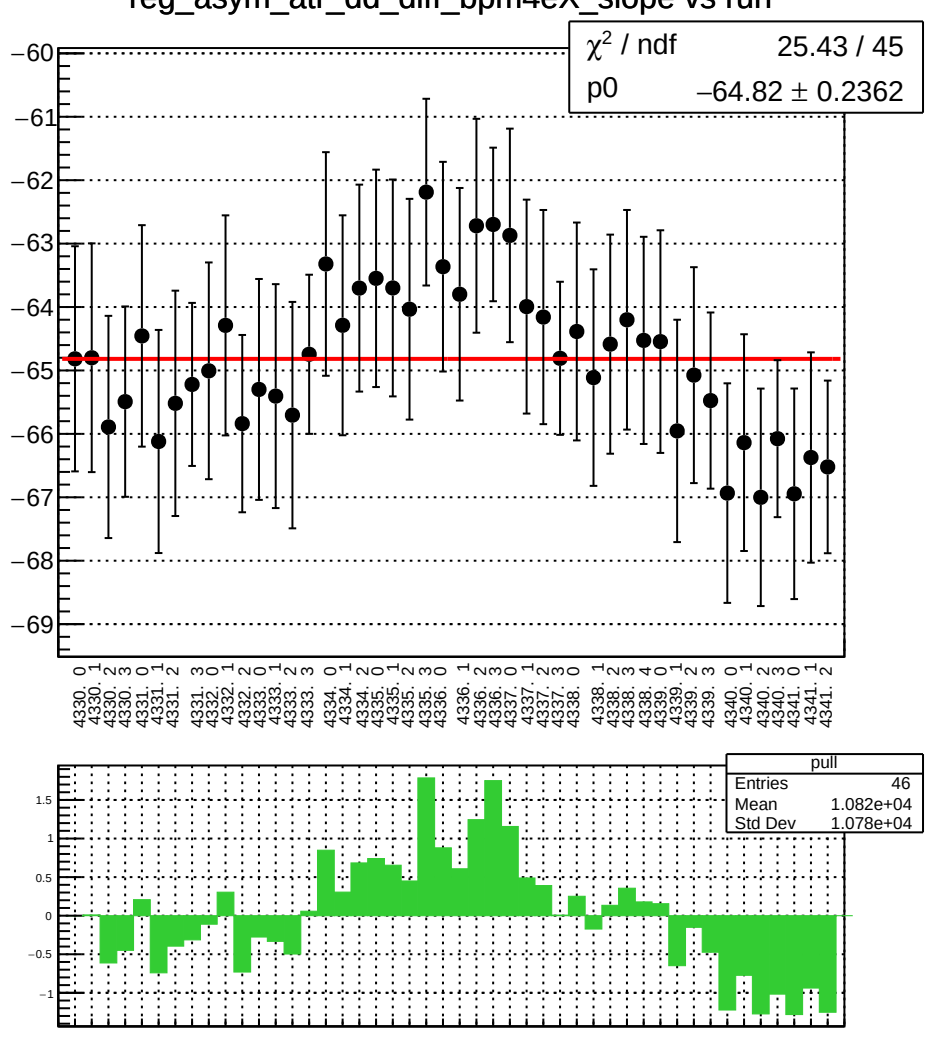

pull1D
Entries 46
Mean −0.008751
Std Dev 0.8227

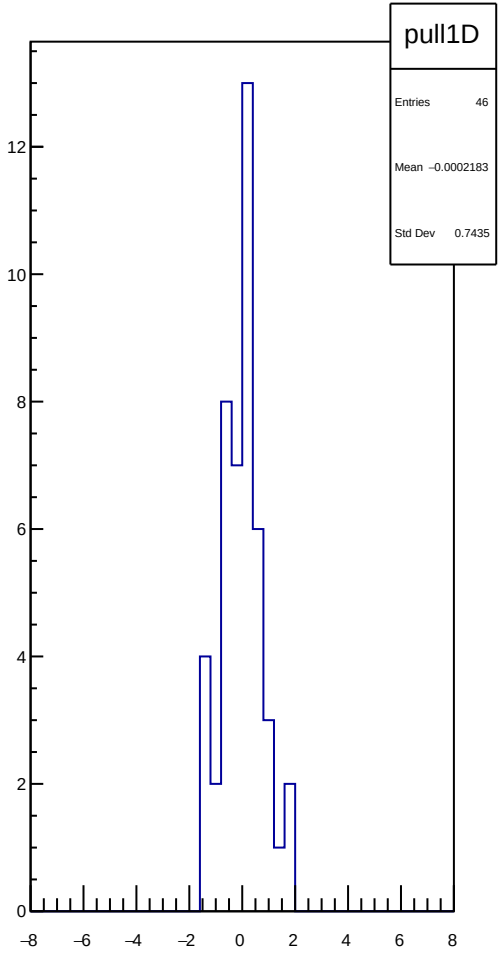

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.222 / 45
p0 48.36 ± 1.351
pull
Entries 46
Mean −1304
Std Dev 1331

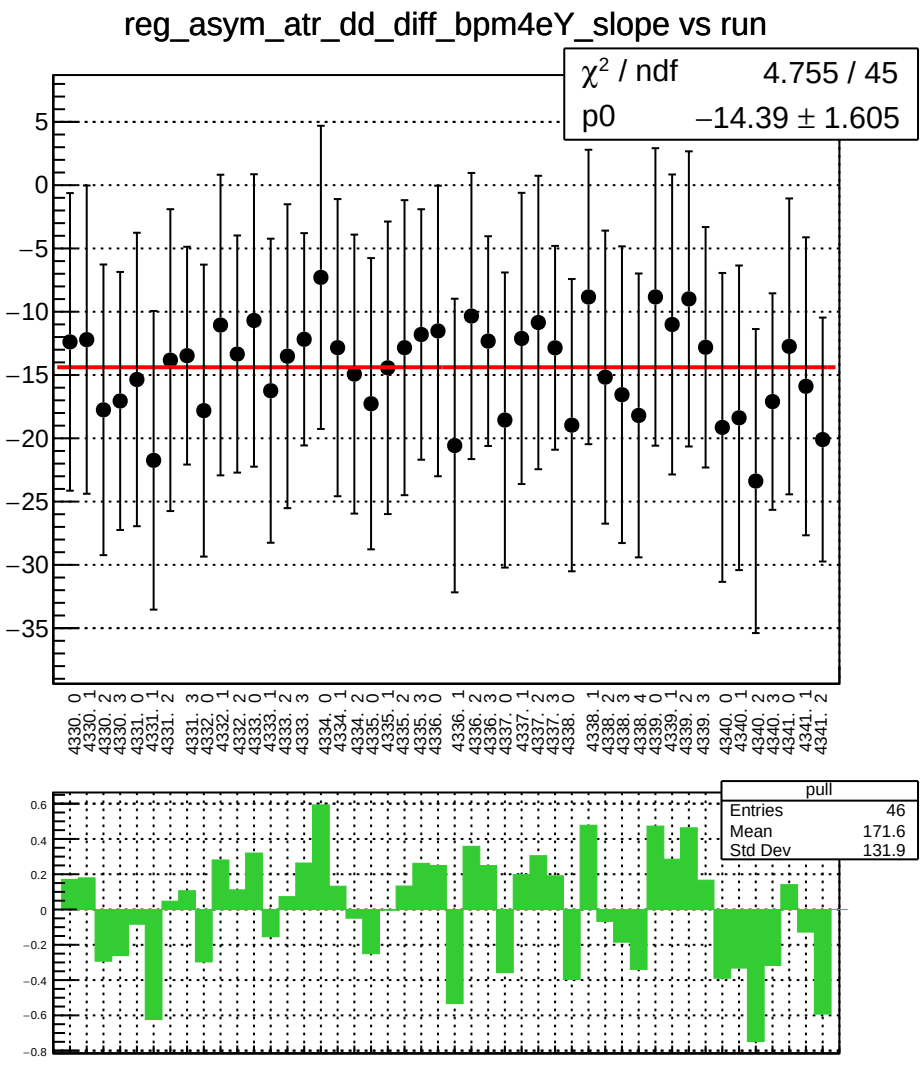

pull1D
Entries 46
Mean −0.001243
Std Dev 0.3678

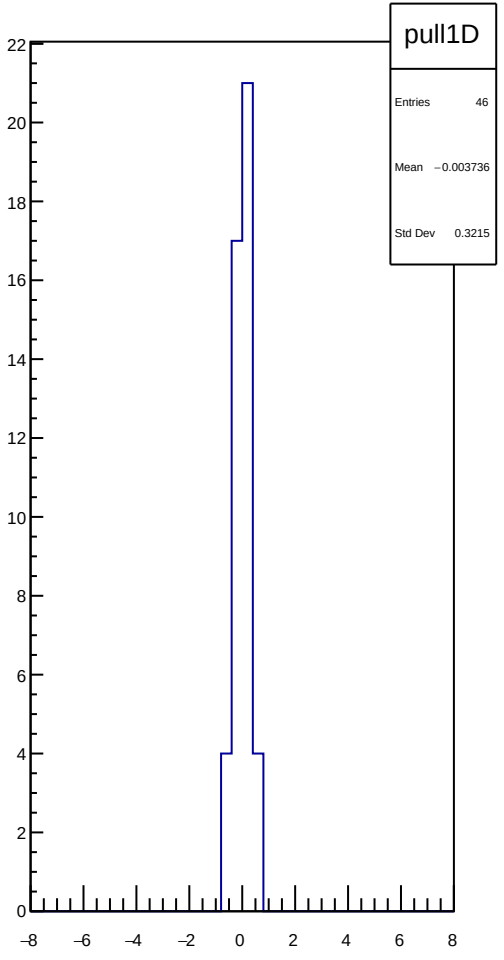

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.948 / 45
p0 0.7971 ± 1.48
pull
Entries 46
Mean 195.5
Std Dev 137.4

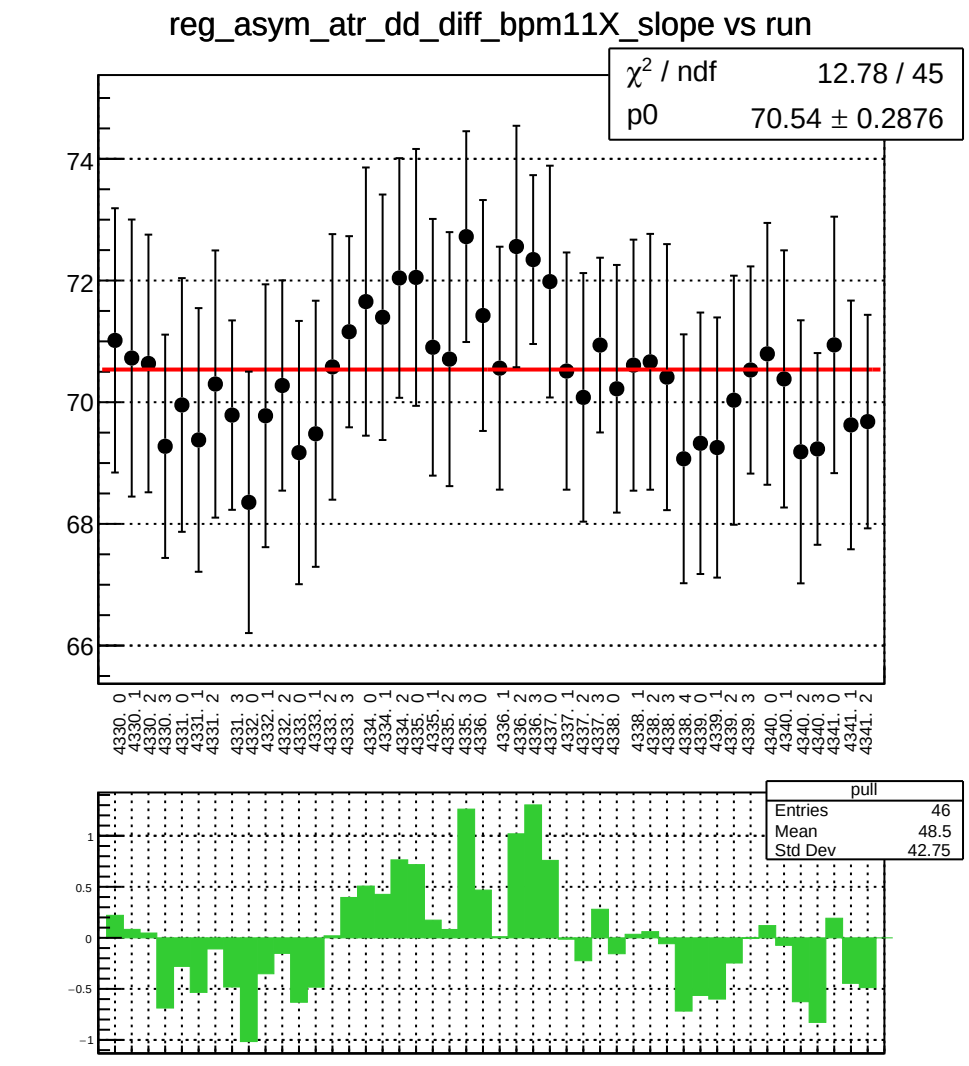

pull1D
Entries 46
Mean 0.001932
Std Dev 0.328

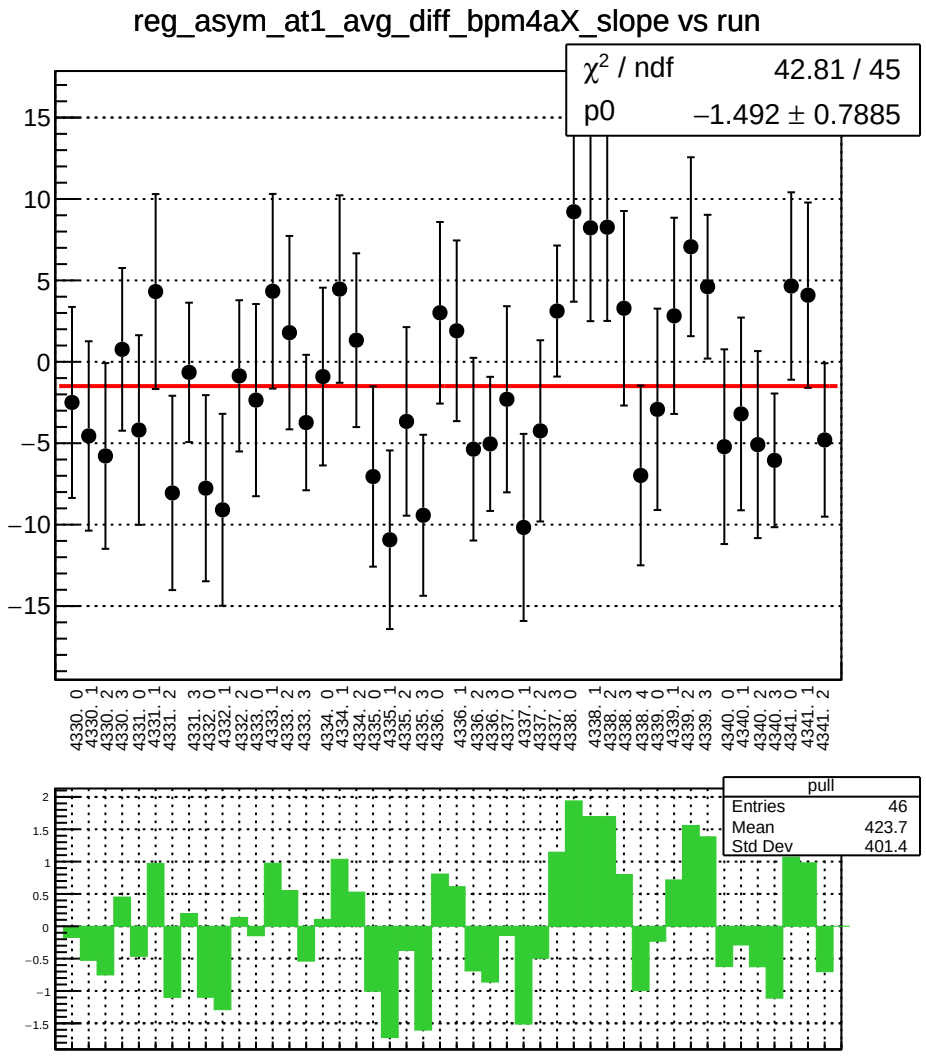

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.43 / 45
p0 −64.82 ± 0.2362
pull
Entries 46
Mean 1.082e+04
Std Dev 1.078e+04

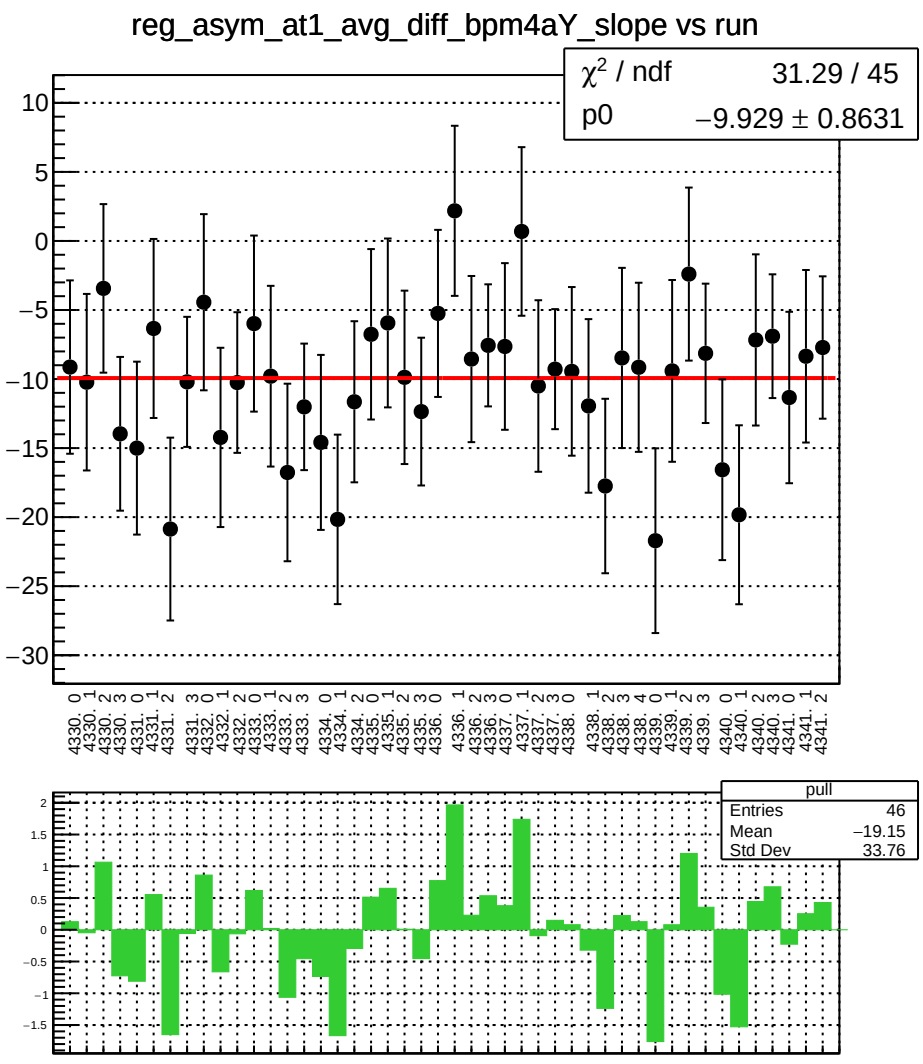

pull1D
Entries 46
Mean −0.0002183
Std Dev 0.7435

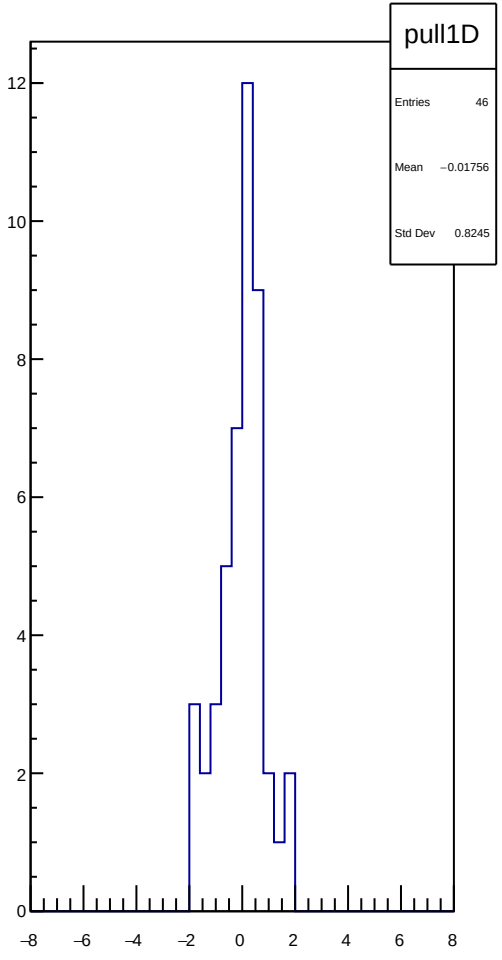

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.755 / 45
p0 −14.39 ± 1.605
pull
Entries 46
Mean 171.6
Std Dev 131.9

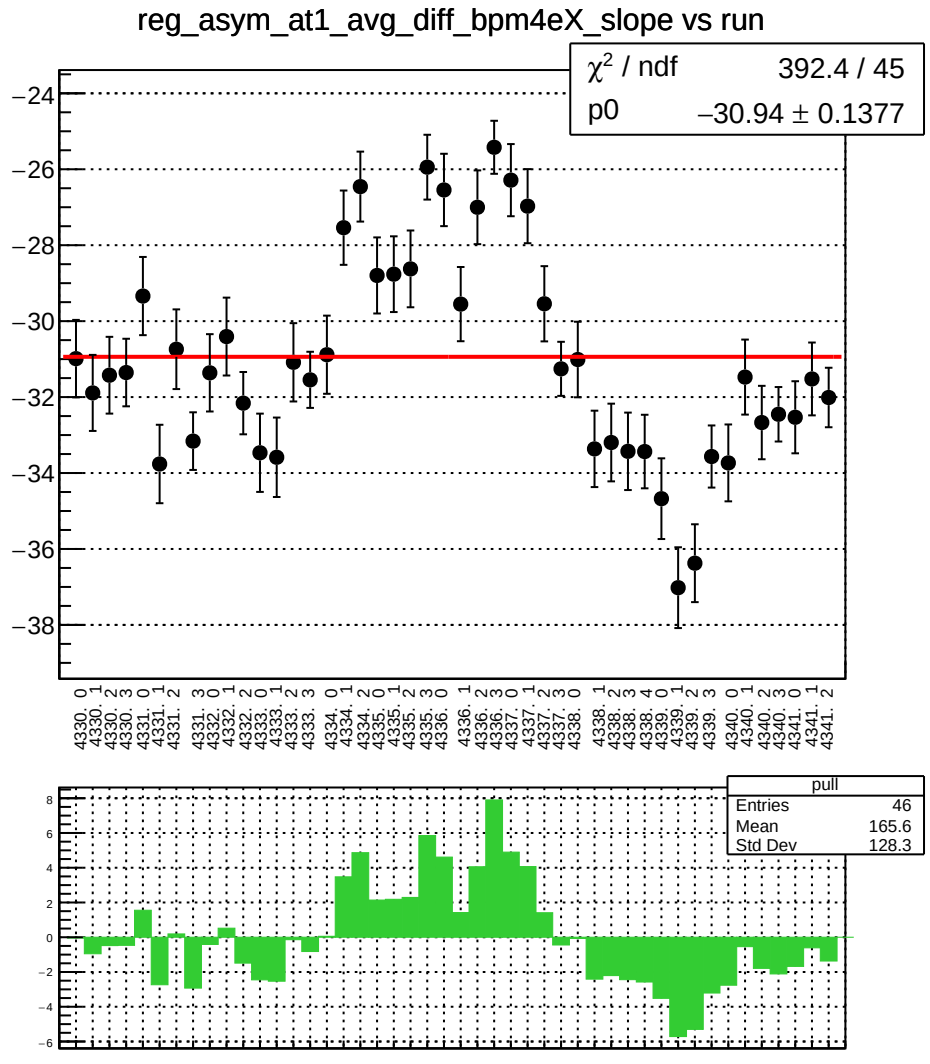

pull1D
Entries 46
Mean −0.003736
Std Dev 0.3215

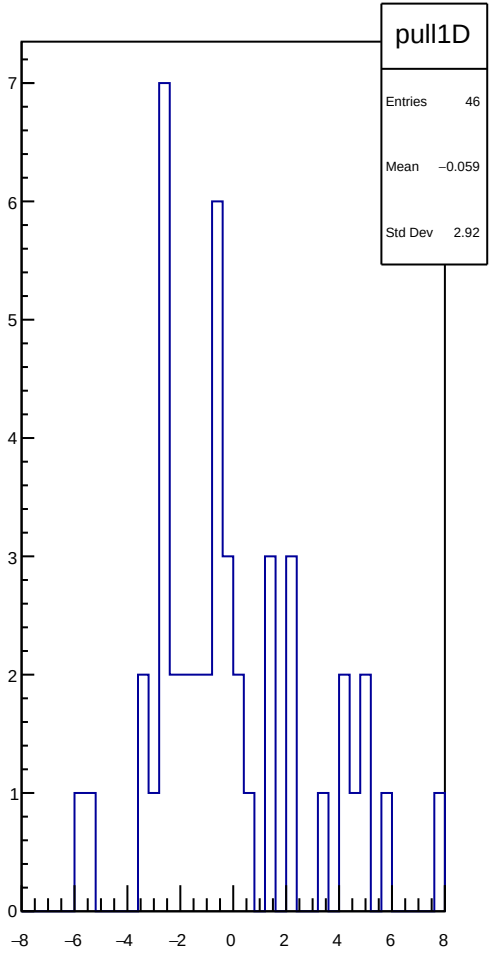

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 12.78 / 45
p0 70.54 ± 0.2876
74
72
70
68
66
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 48.5
Std Dev 42.75
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01783
Std Dev 0.5268
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

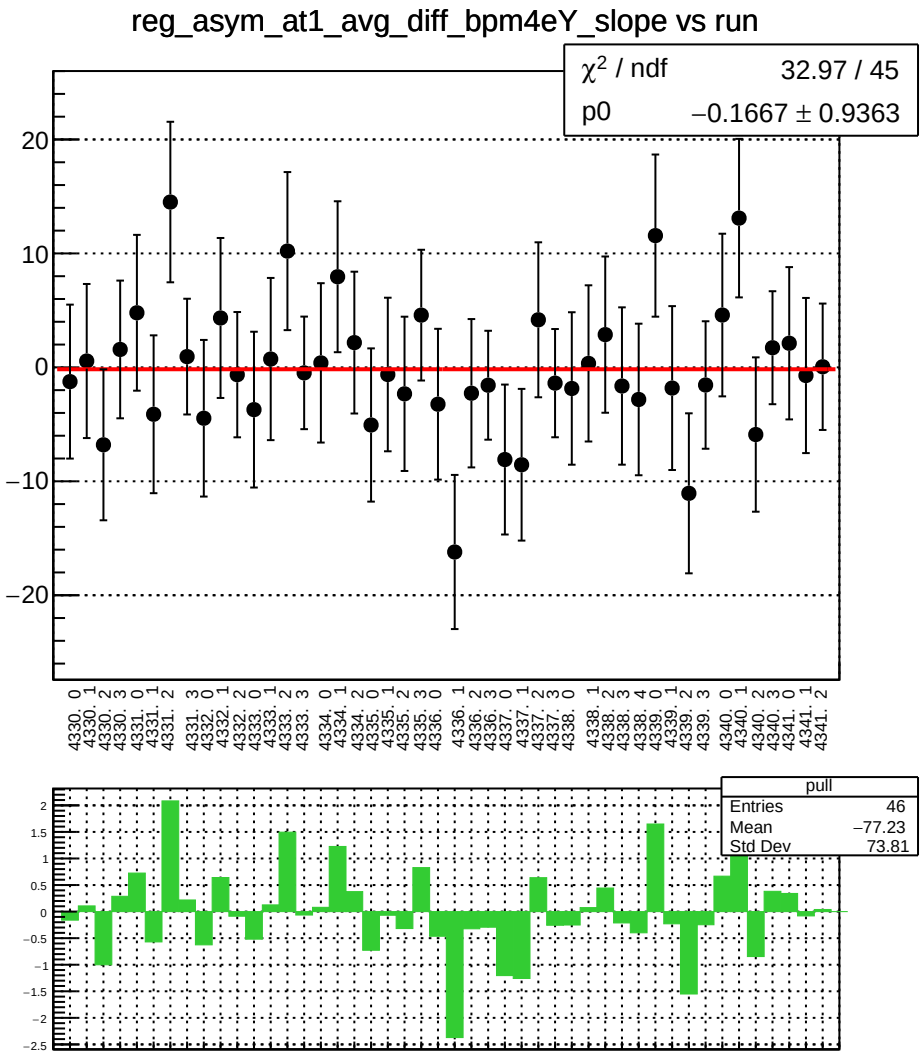

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.81 / 45
p0 −1.492 ± 0.7885
15
10
5
0
−5
−10
−15
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 423.7
Std Dev 401.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.006505
Std Dev 0.9647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

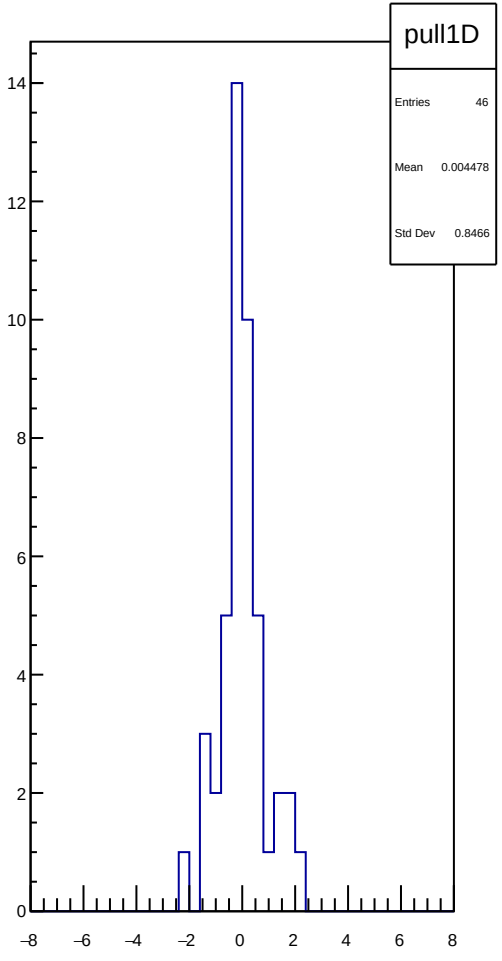

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.29 / 45
p0 −9.929 ± 0.8631
pull
Entries 46
Mean −19.15
Std Dev 33.76

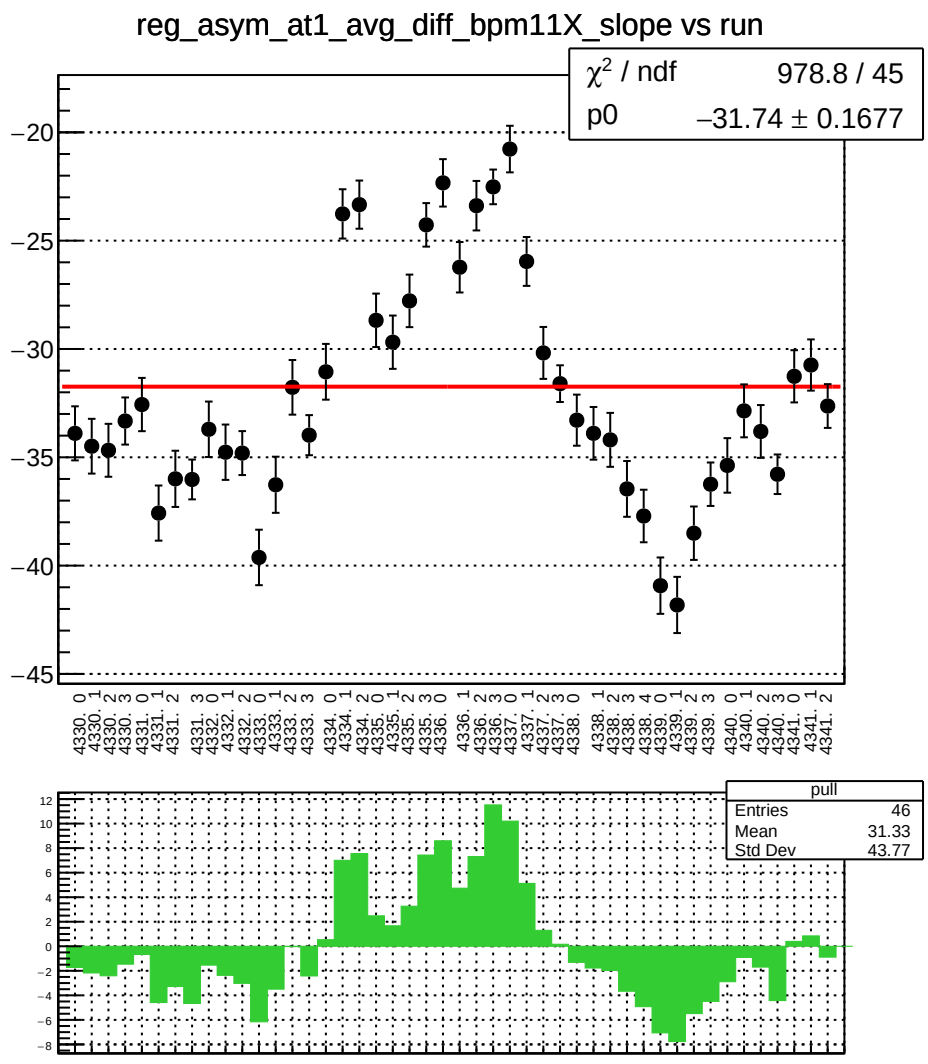

pull1D
Entries 46
Mean −0.01756
Std Dev 0.8245

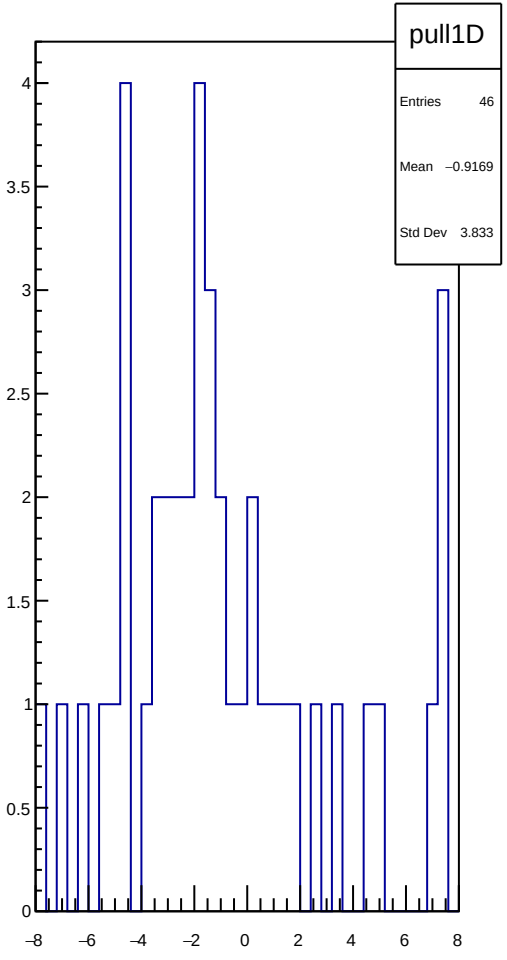

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 392.4 / 45
p0 −30.94 ± 0.1377
pull
Entries 46
Mean 165.6
Std Dev 128.3

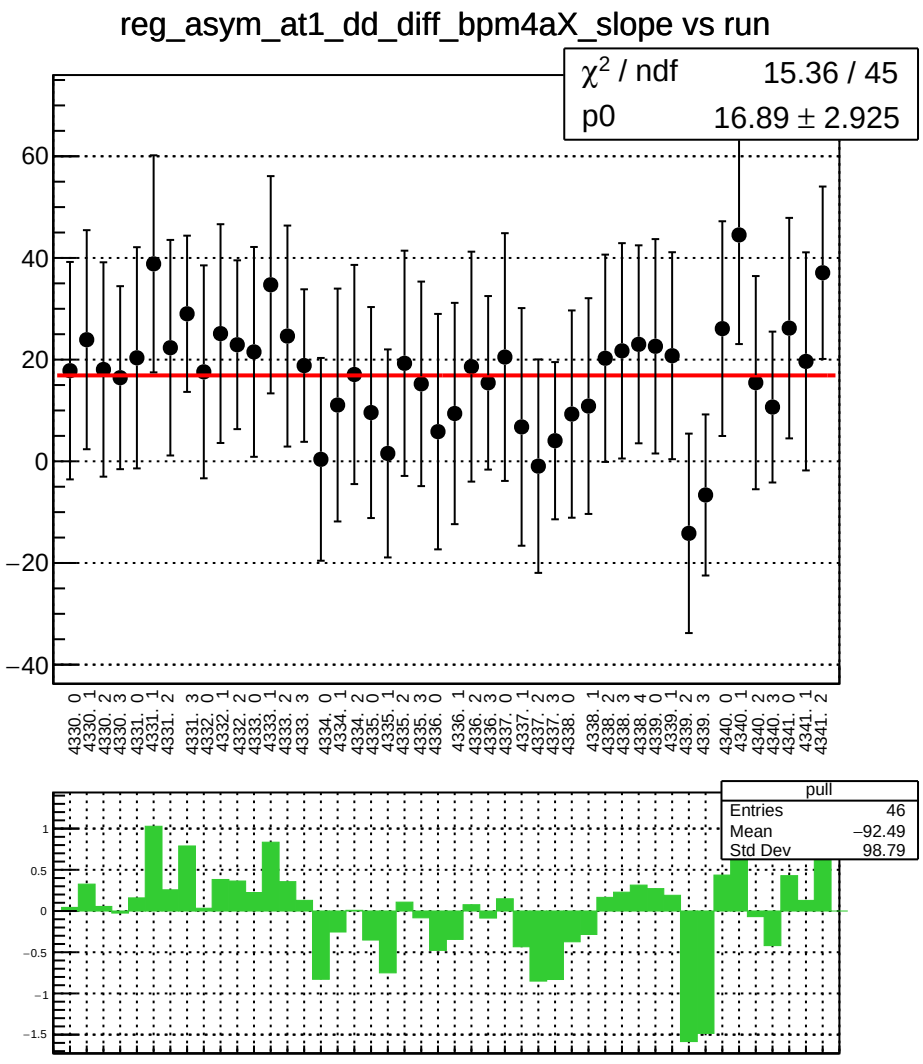

pull1D
Entries 46
Mean −0.059
Std Dev 2.92

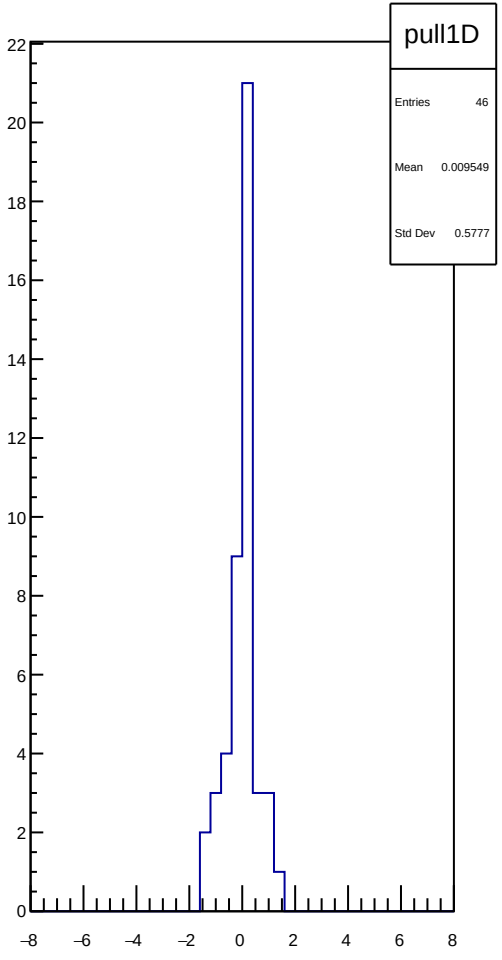

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.97 / 45
p0 −0.1667 ± 0.9363
pull
Entries 46
Mean −77.23
Std Dev 73.81

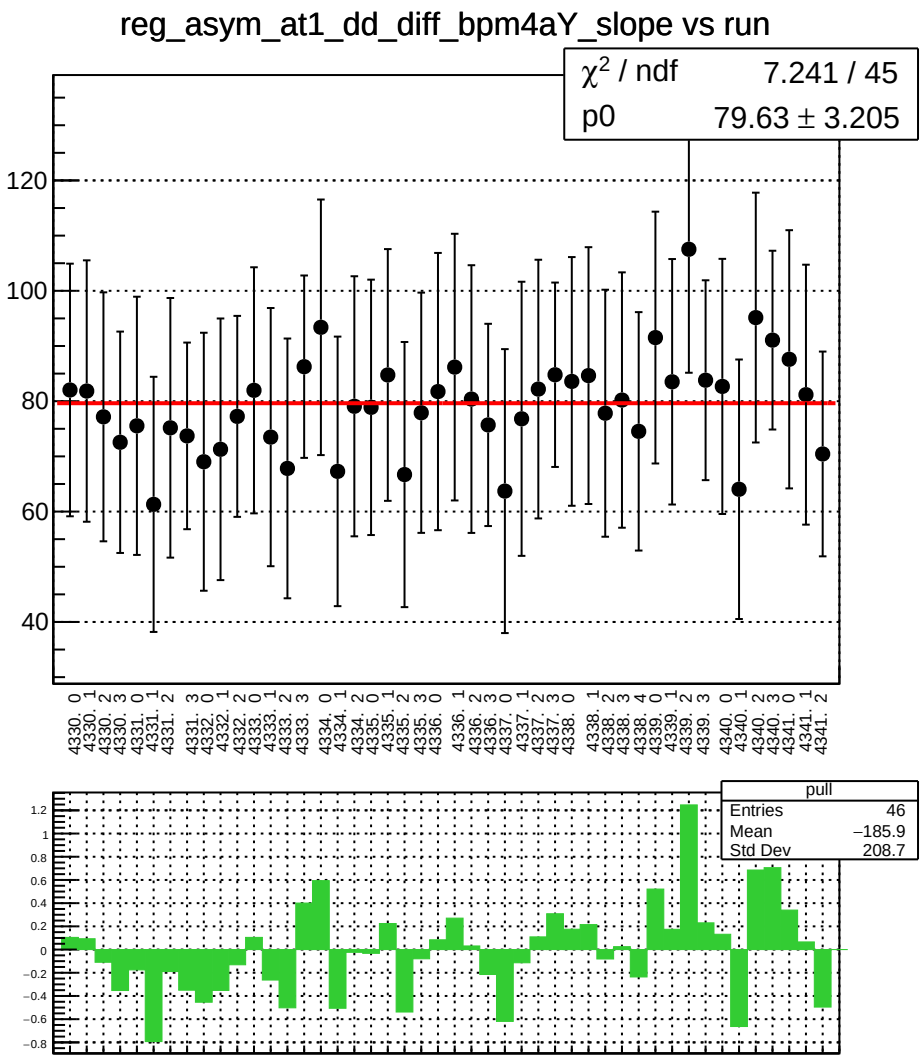

pull1D
Entries 46
Mean 0.004478
Std Dev 0.8466

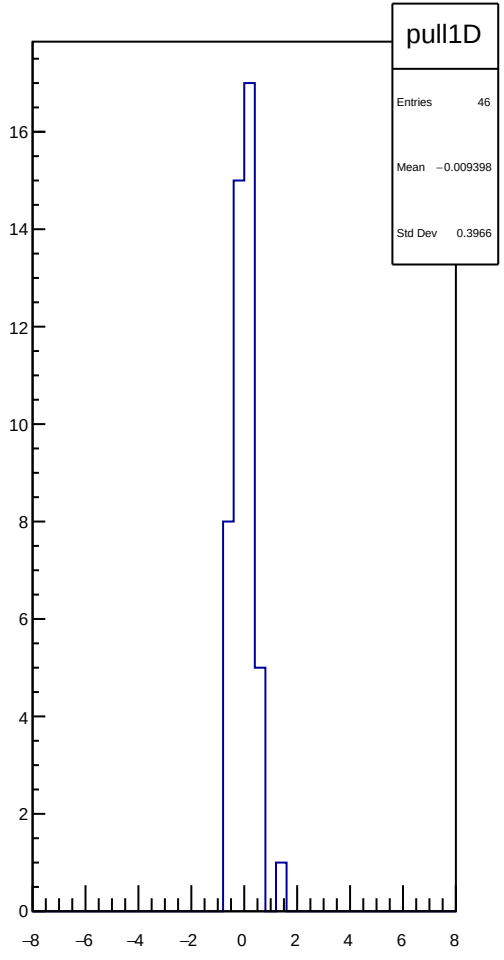

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 978.8 / 45
p0 −31.74 ± 0.1677
pull
Entries 46
Mean 31.33
Std Dev 43.77

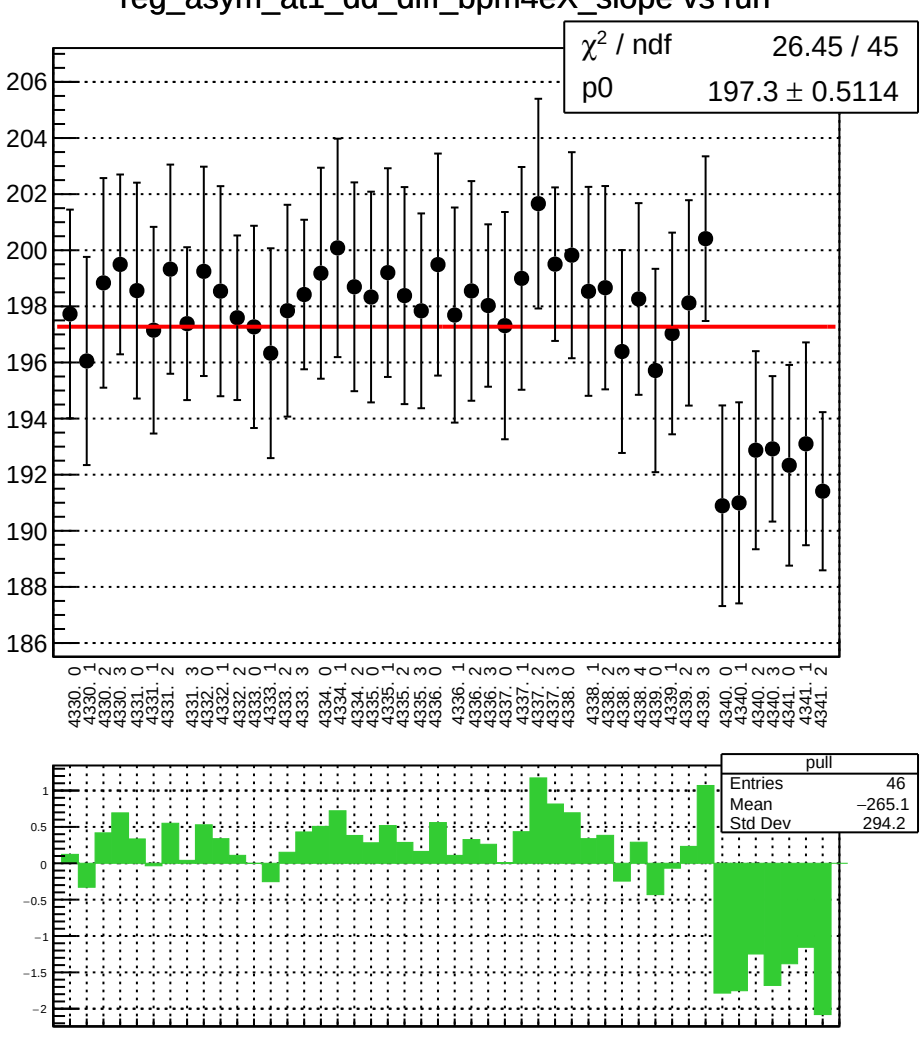

pull1D
Entries 46
Mean −0.9169
Std Dev 3.833

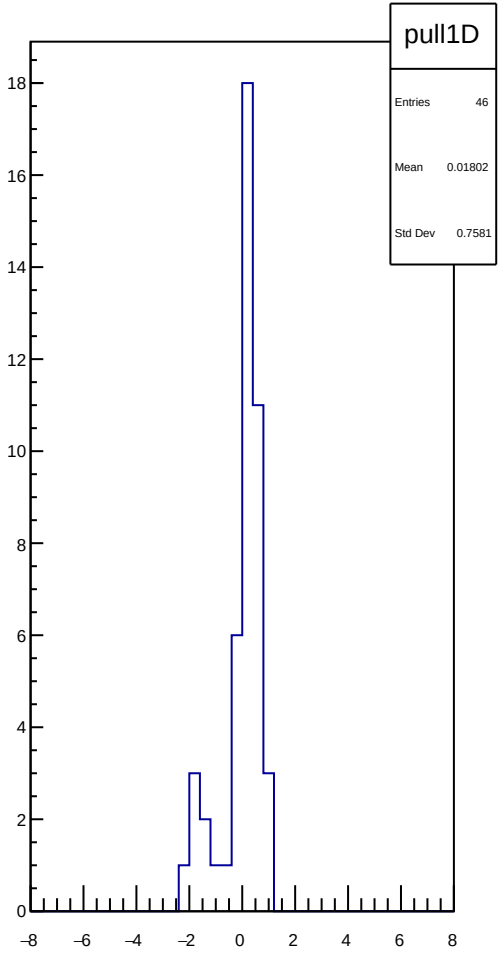

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.36 / 45
p0 16.89 ± 2.925
pull
Entries 46
Mean −92.49
Std Dev 98.79

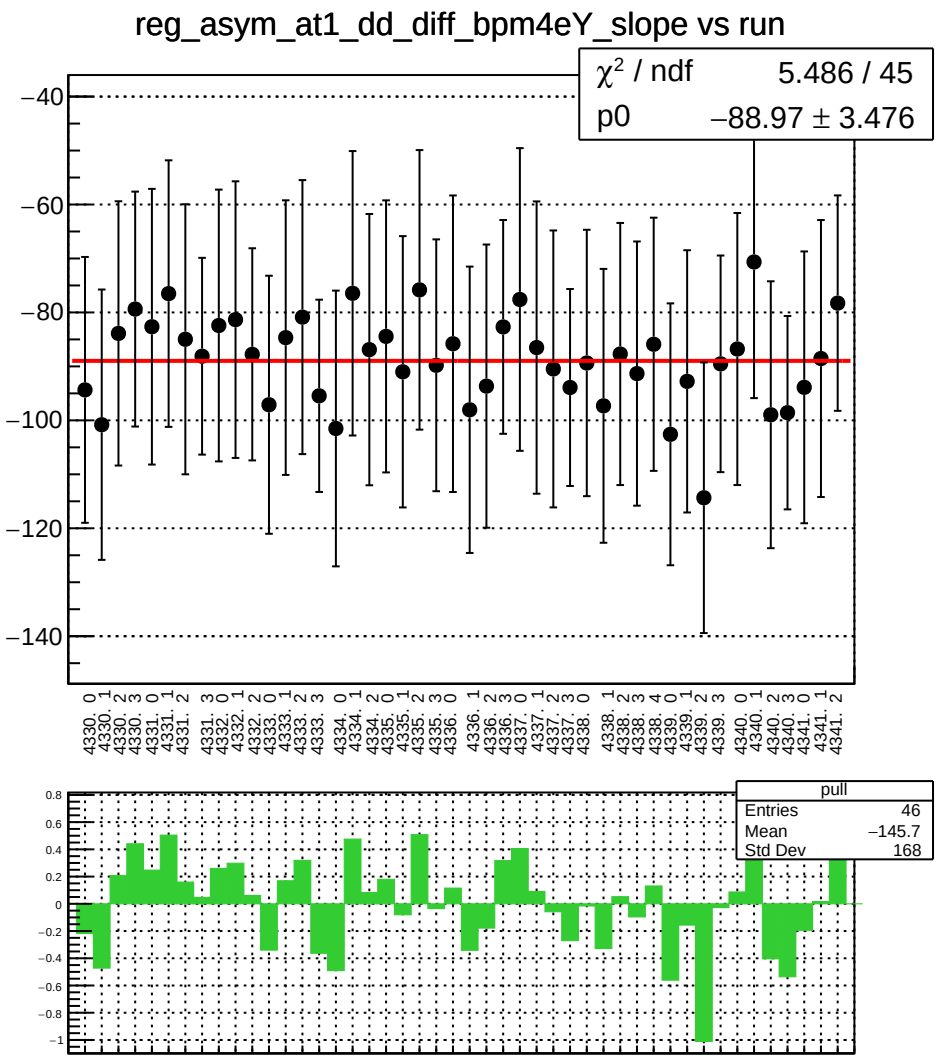

pull1D
Entries 46
Mean 0.009549
Std Dev 0.5777

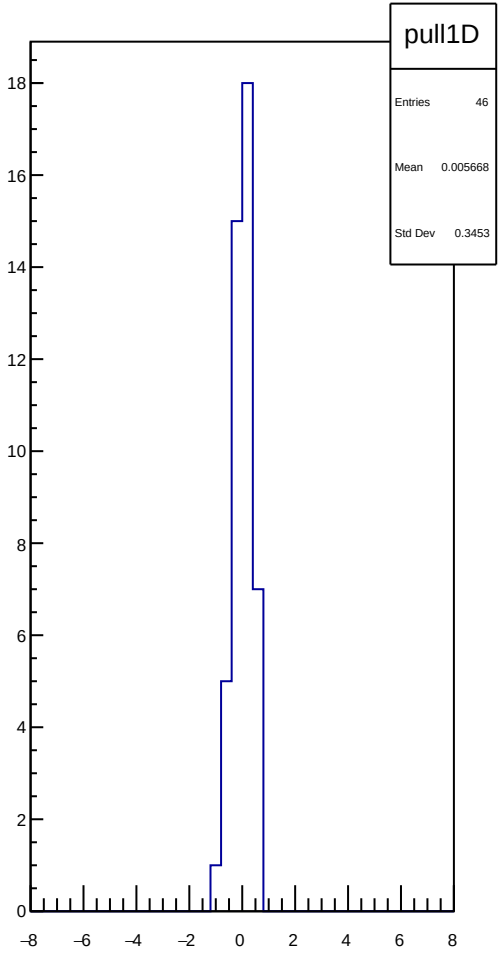

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.241 / 45
p0 79.63 ± 3.205
120
100
80
60
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −185.9
Std Dev 208.7
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

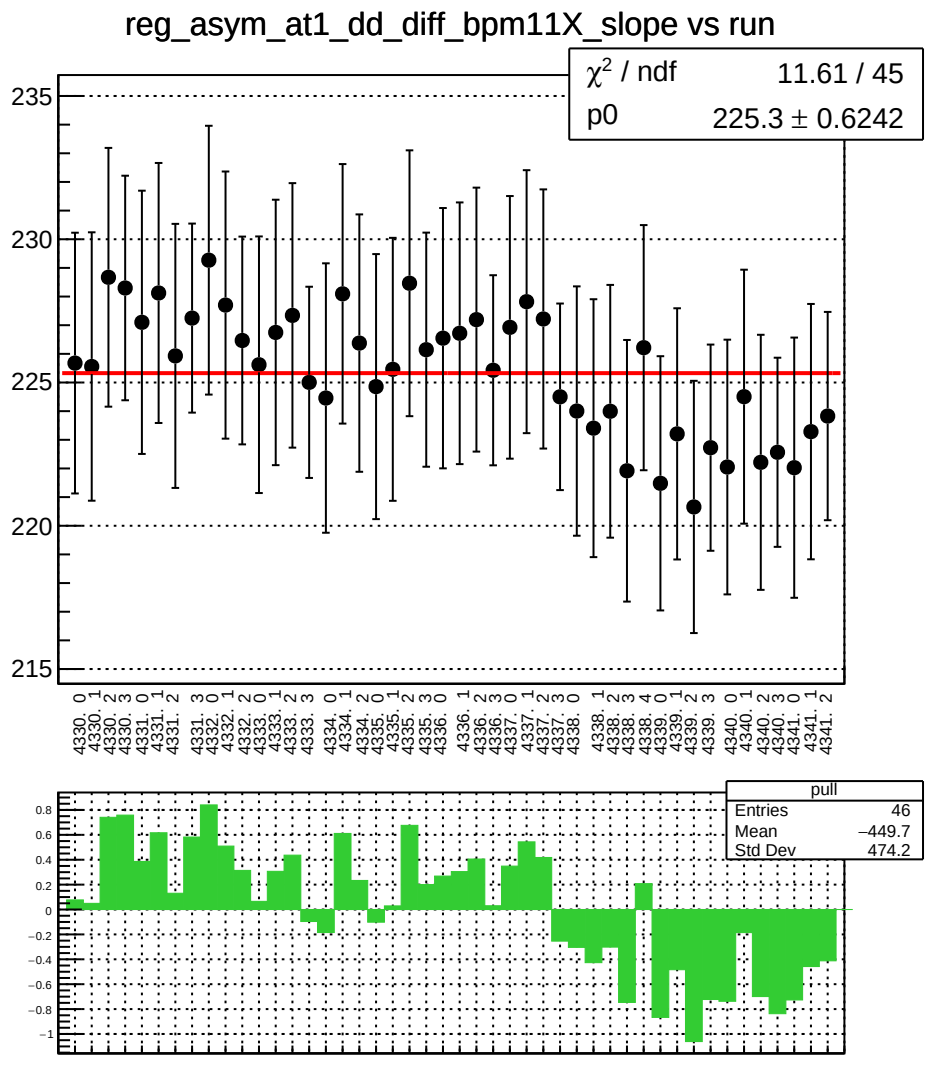

pull1D
Entries 46
Mean −0.009398
Std Dev 0.3966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

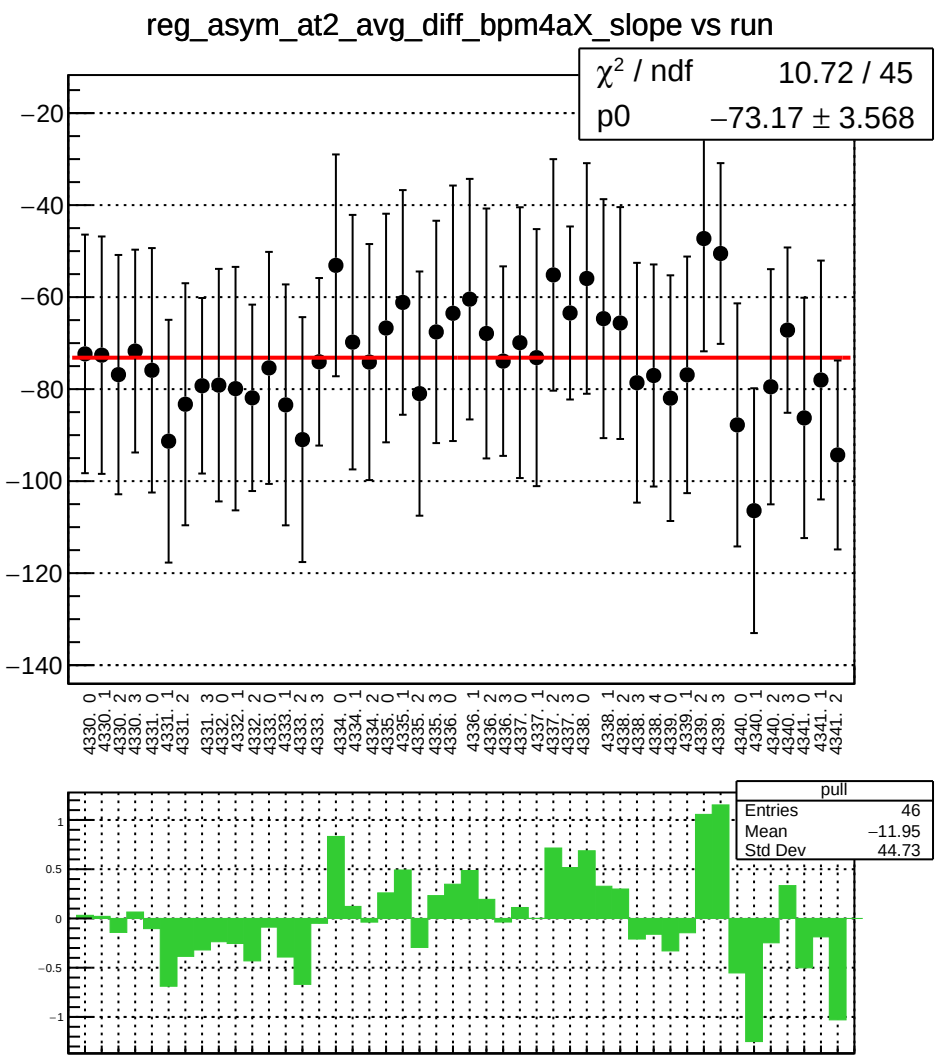

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.45 / 45
p0 197.3 ± 0.5114
pull
Entries 46
Mean −265.1
Std Dev 294.2

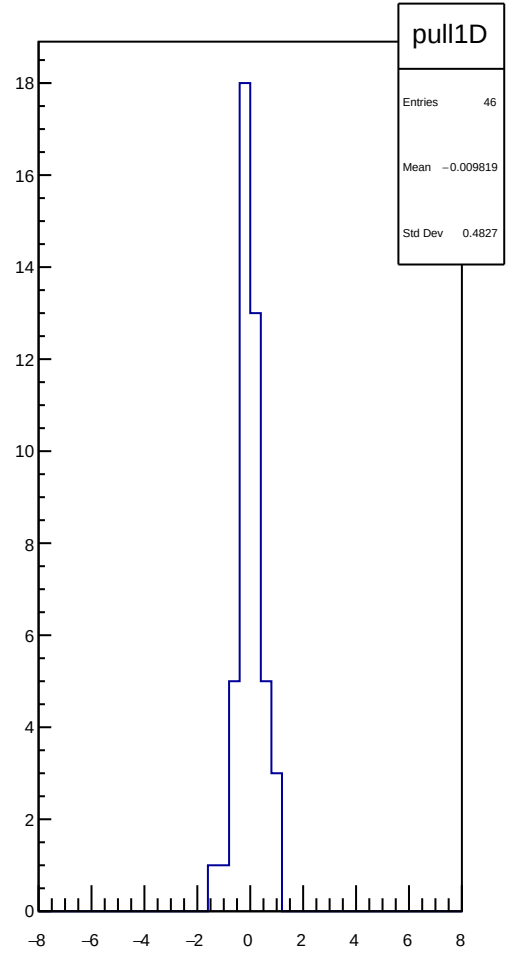

pull1D
Entries 46
Mean 0.01802
Std Dev 0.7581

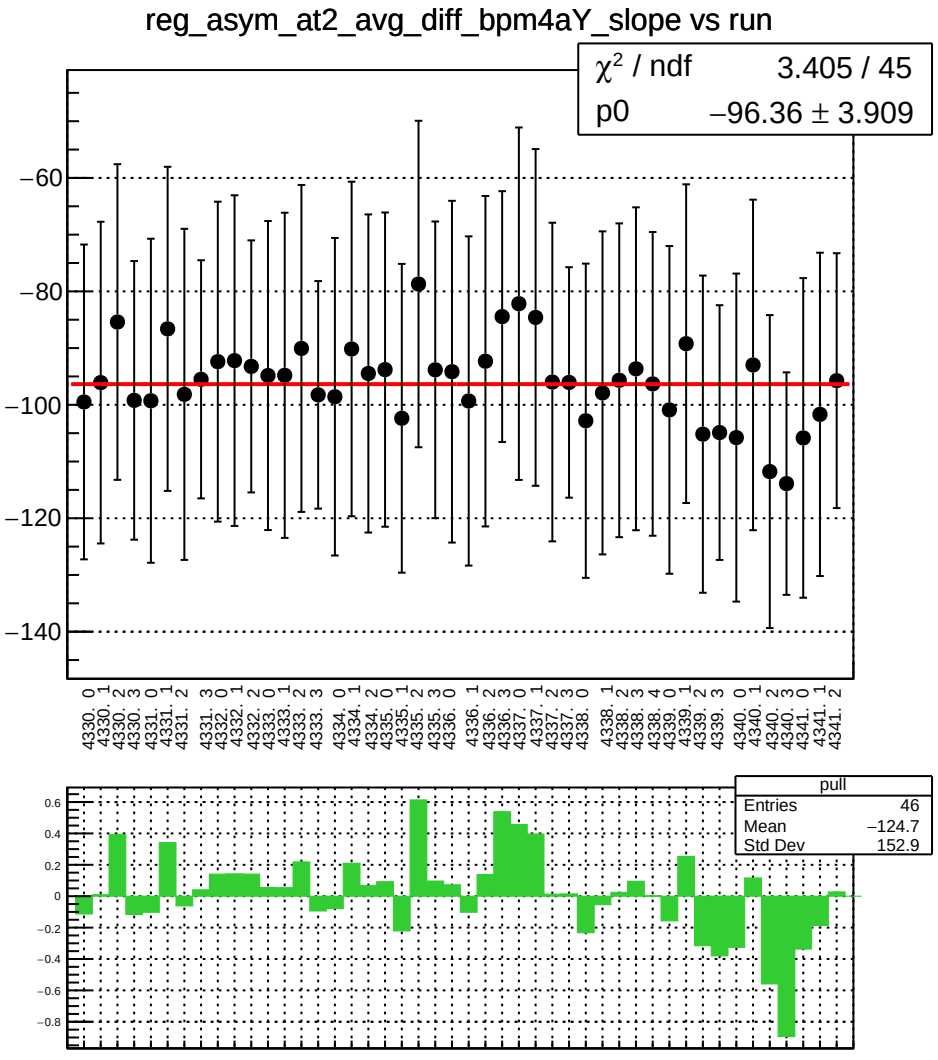

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.486 / 45
p0 −88.97 ± 3.476
pull
Entries 46
Mean −145.7
Std Dev 168

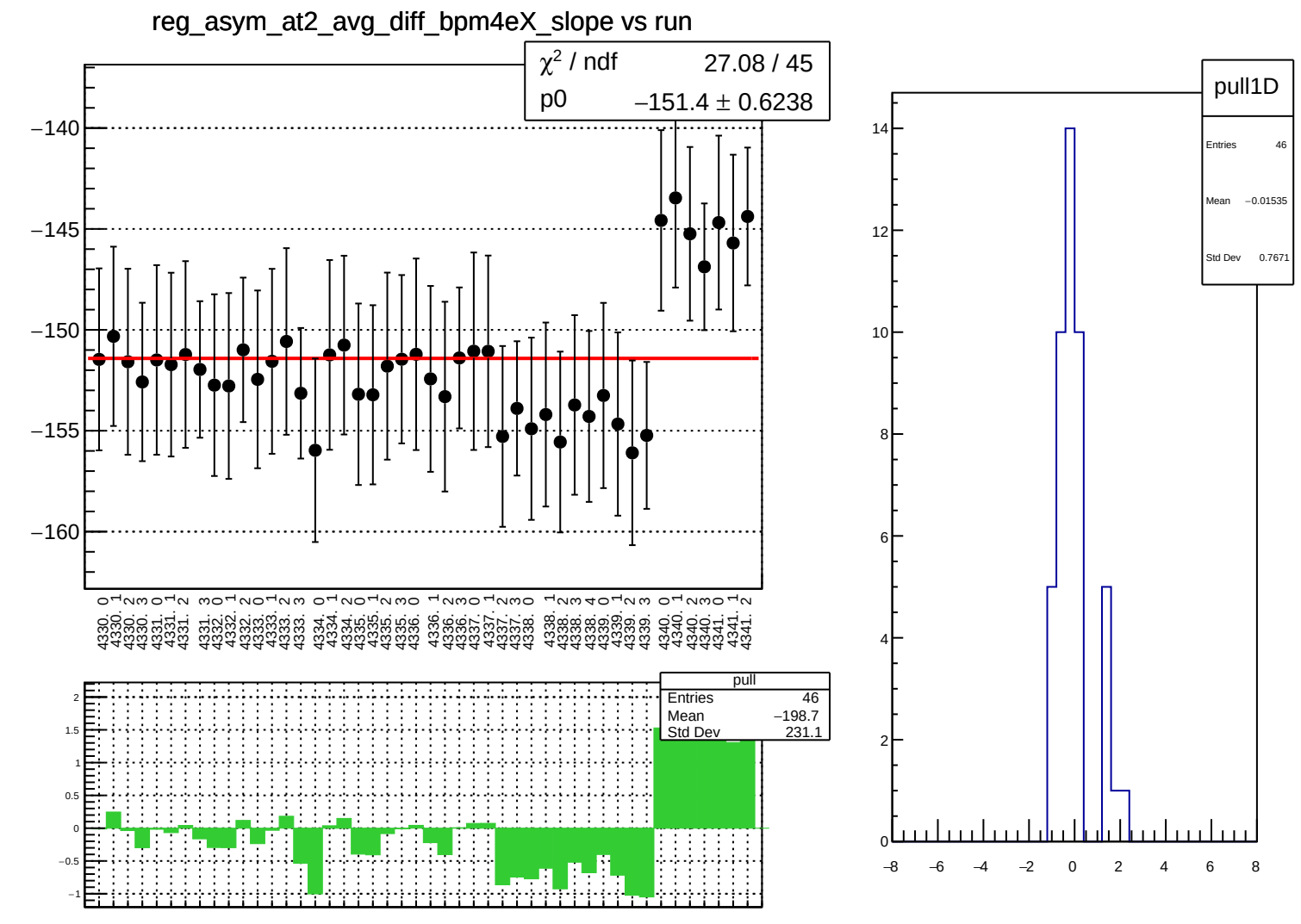

pull1D
Entries 46
Mean 0.005668
Std Dev 0.3453

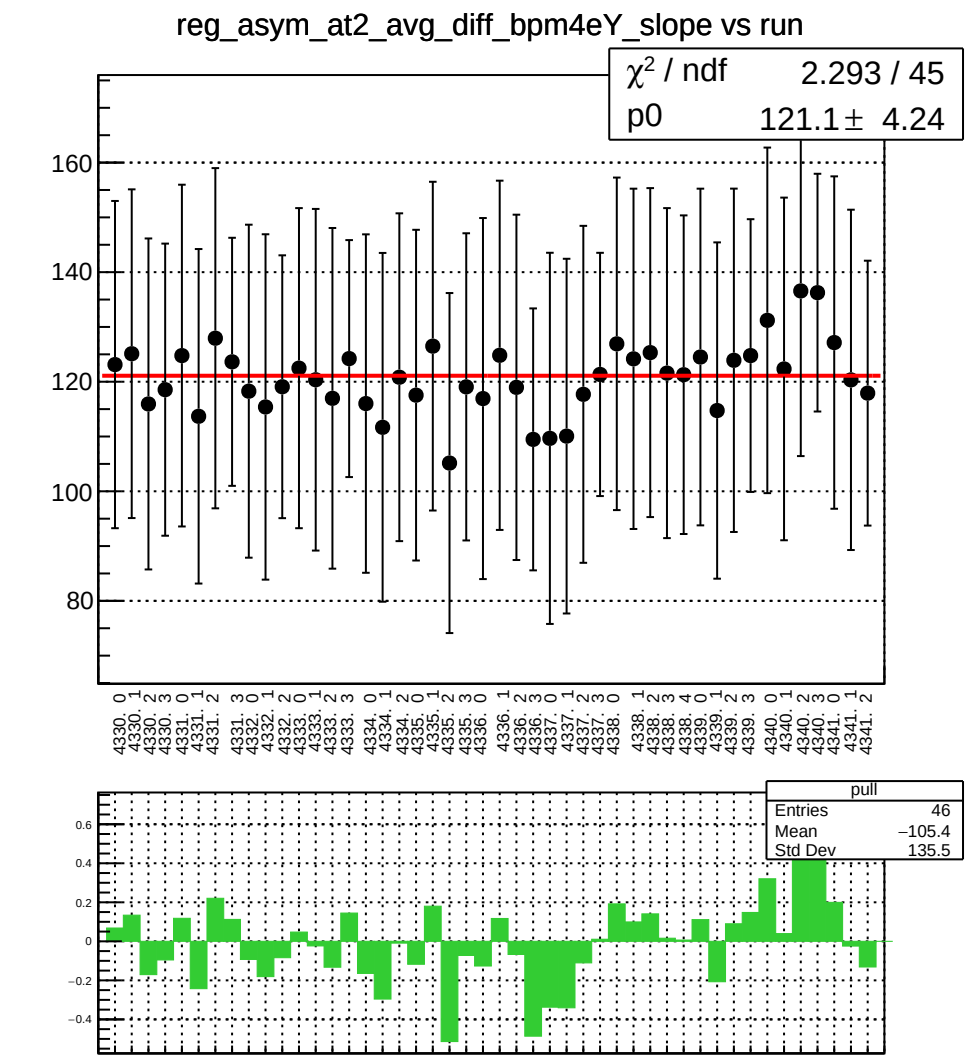

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 11.61 / 45
p0 225.3 ± 0.6242
235
230
225
220
215
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −449.7
Std Dev 474.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean 0.01056
Std Dev 0.5023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

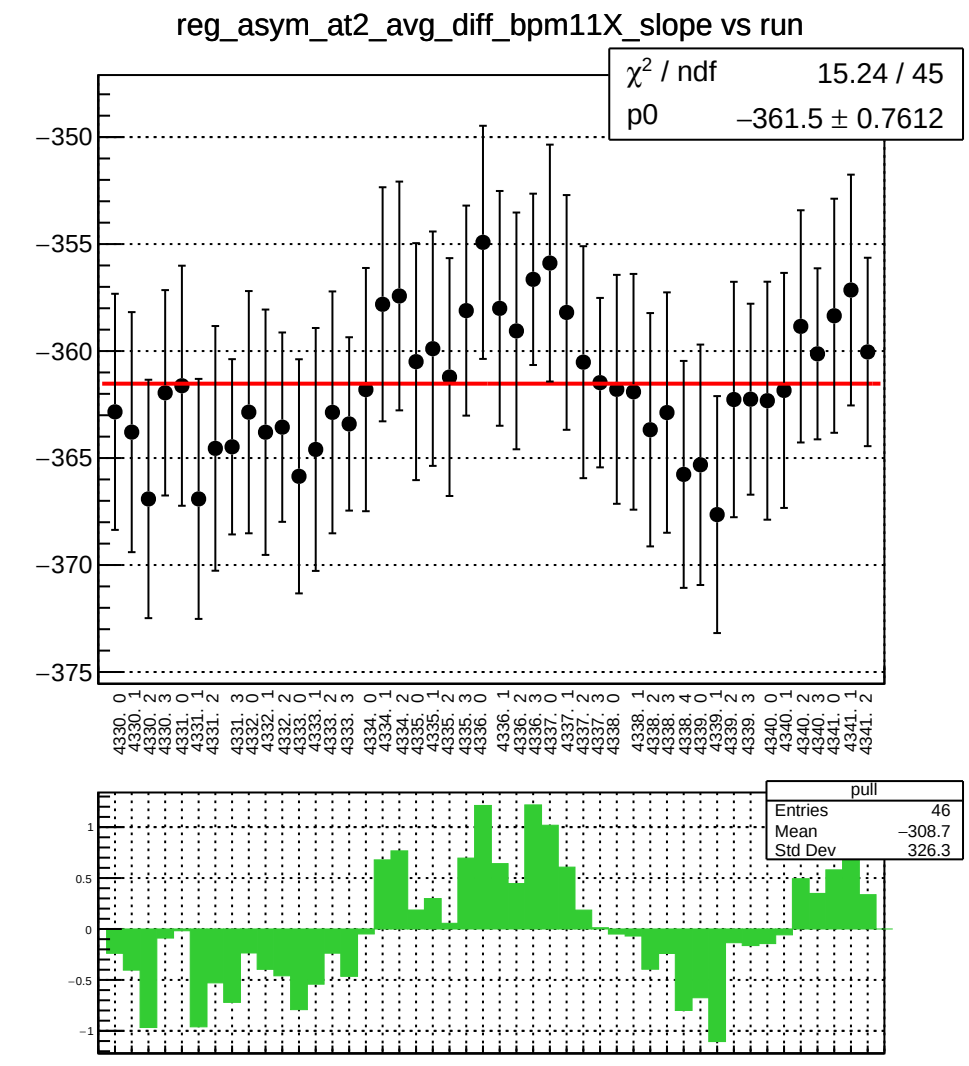

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.72 / 45
p0 −73.17 ± 3.568
pull
Entries 46
Mean −11.95
Std Dev 44.73

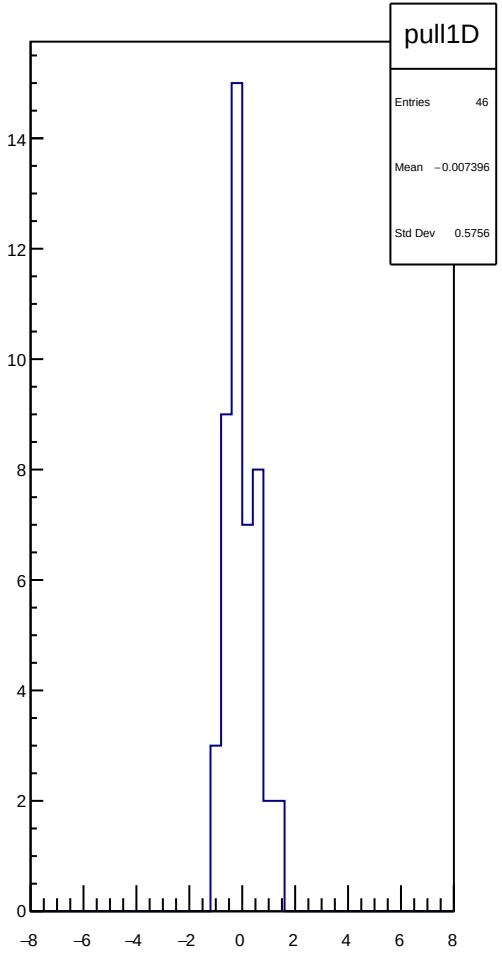

pull1D
Entries 46
Mean −0.009819
Std Dev 0.4827

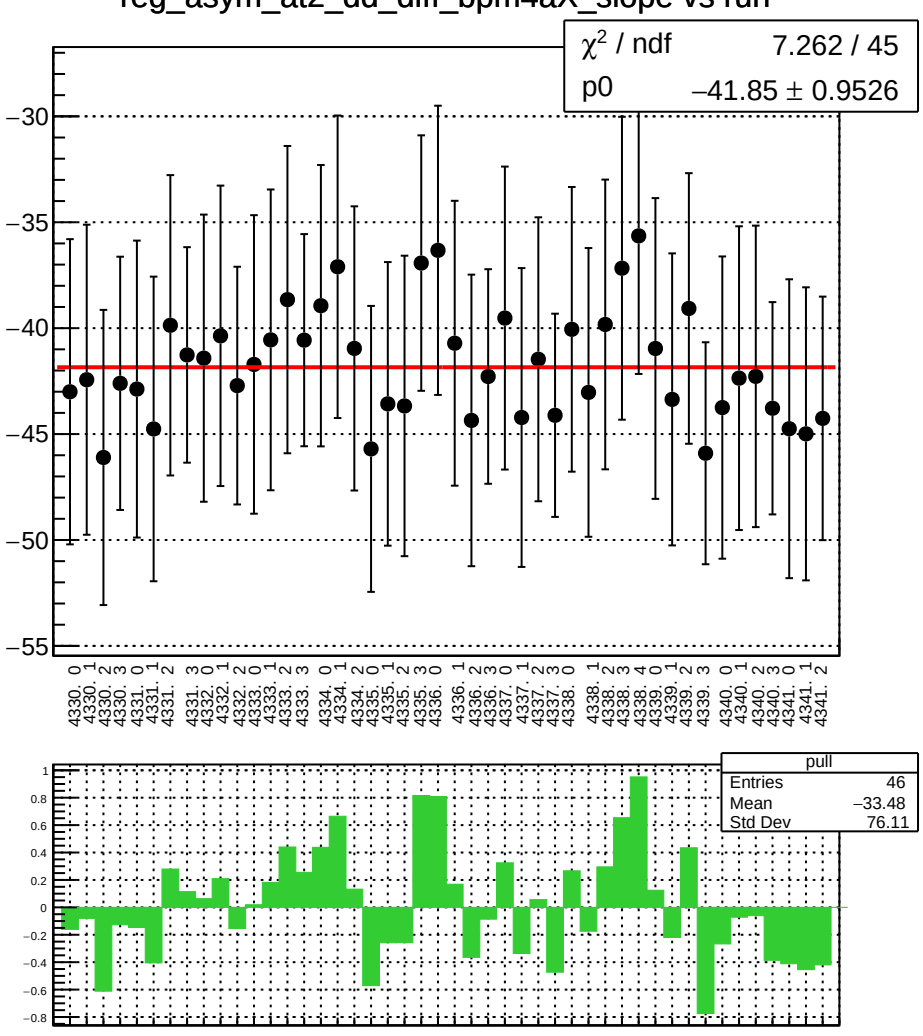

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.405 / 45
p0 −96.36 ± 3.909
−60
−80
−100
−120
−140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −124.7
Std Dev 152.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.009441
Std Dev 0.2719
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

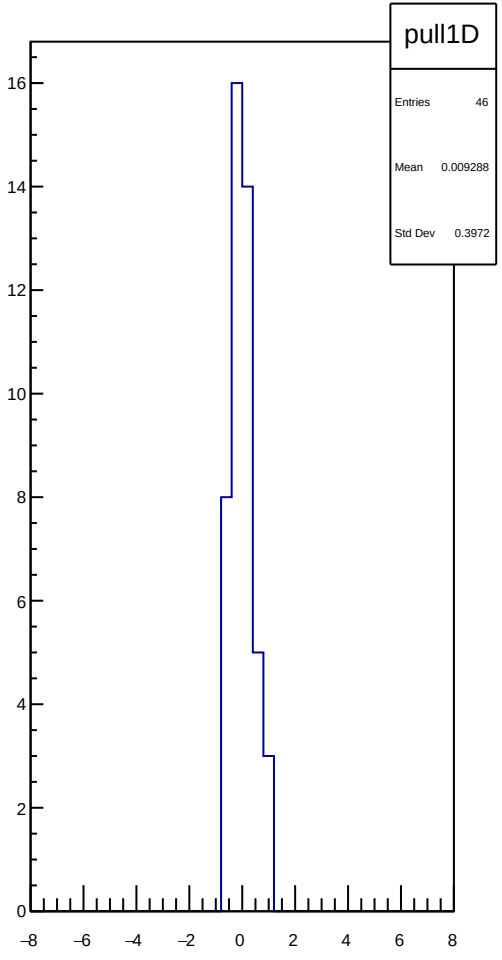

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.08 / 45
p0 −151.4 ± 0.6238
−140
−145
−150
−155
−160
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −198.7
Std Dev 231.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01535
Std Dev 0.7671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

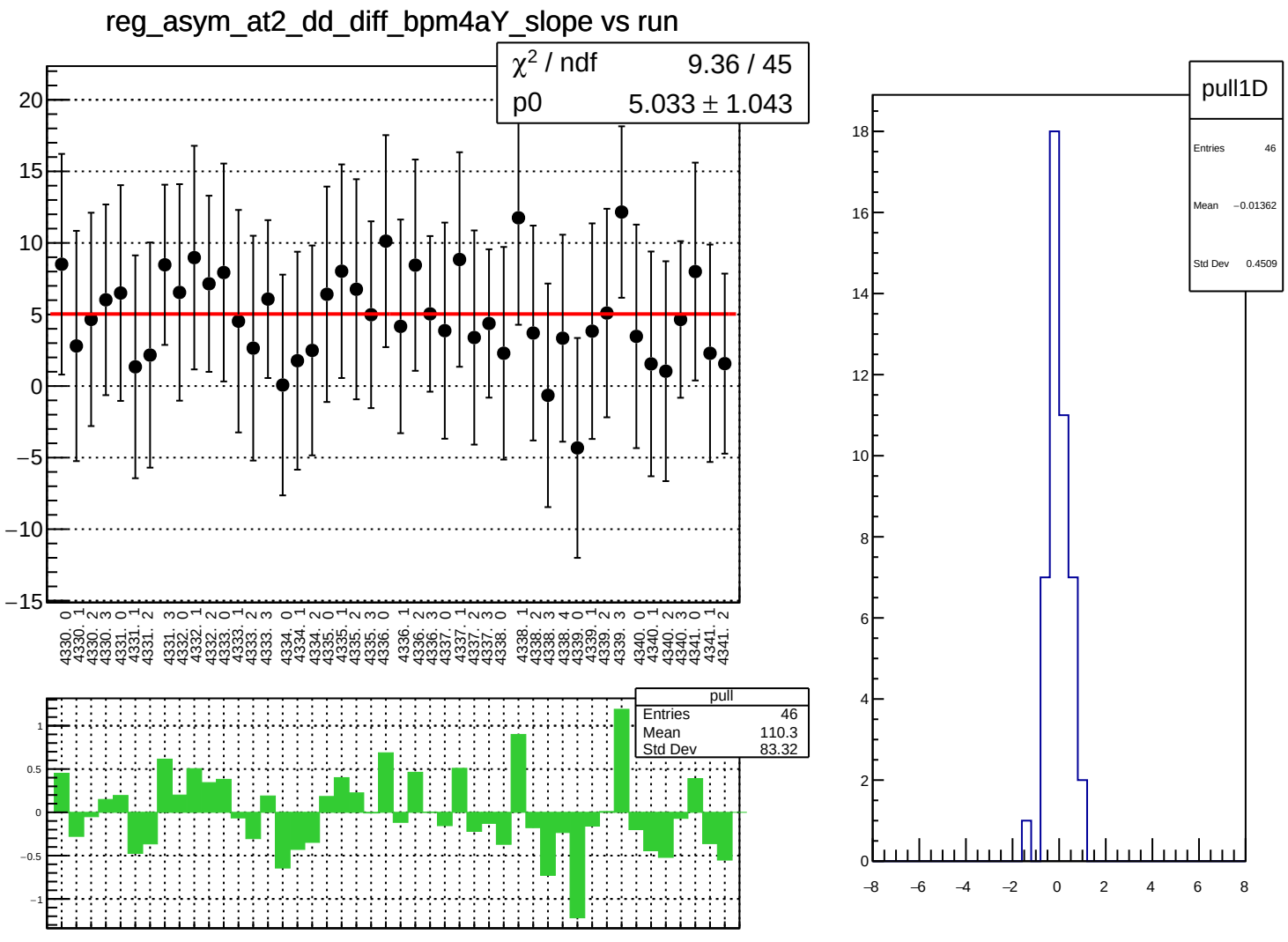

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.293 / 45
p0 121.1 ± 4.24
160
140
120
100
80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −105.4
Std Dev 135.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 46
Mean −0.006435
Std Dev 0.2232
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

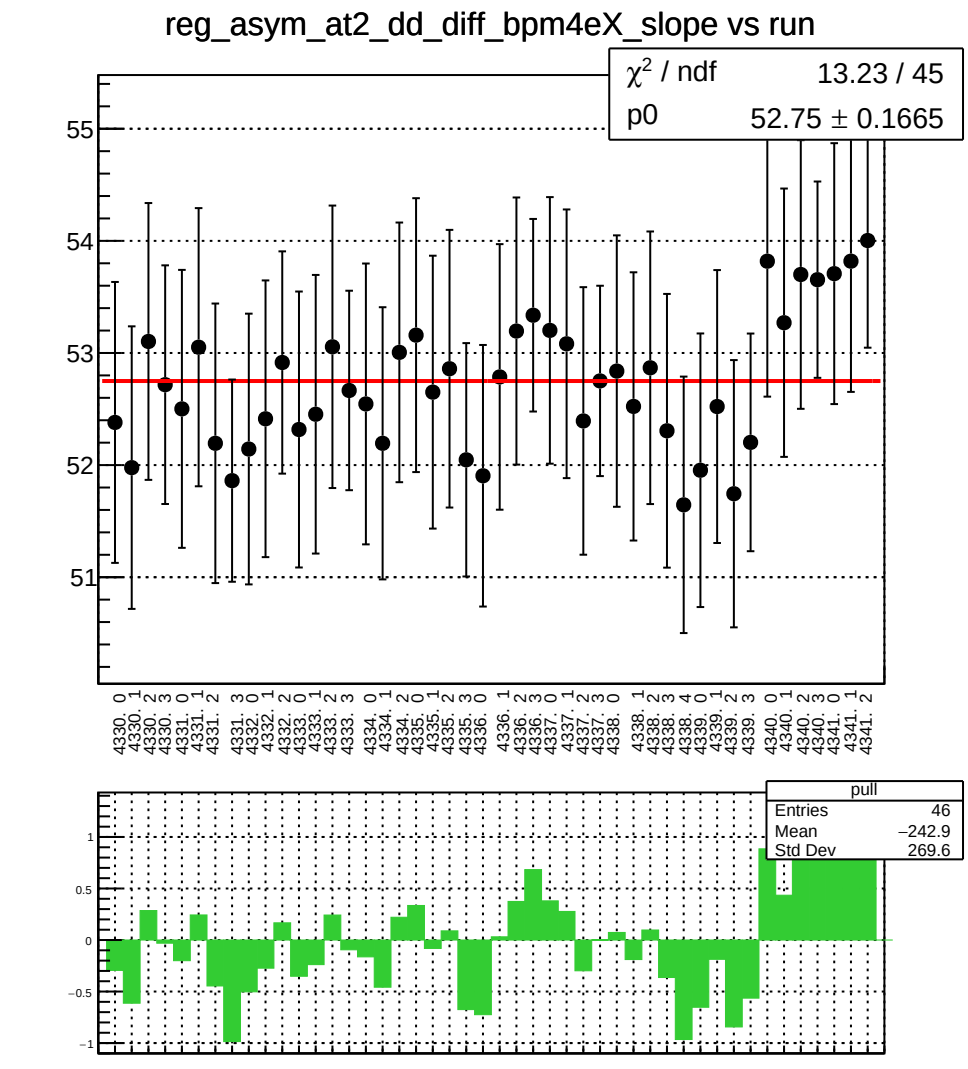

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 15.24 / 45
p0 −361.5 ± 0.7612
pull
Entries 46
Mean −308.7
Std Dev 326.3

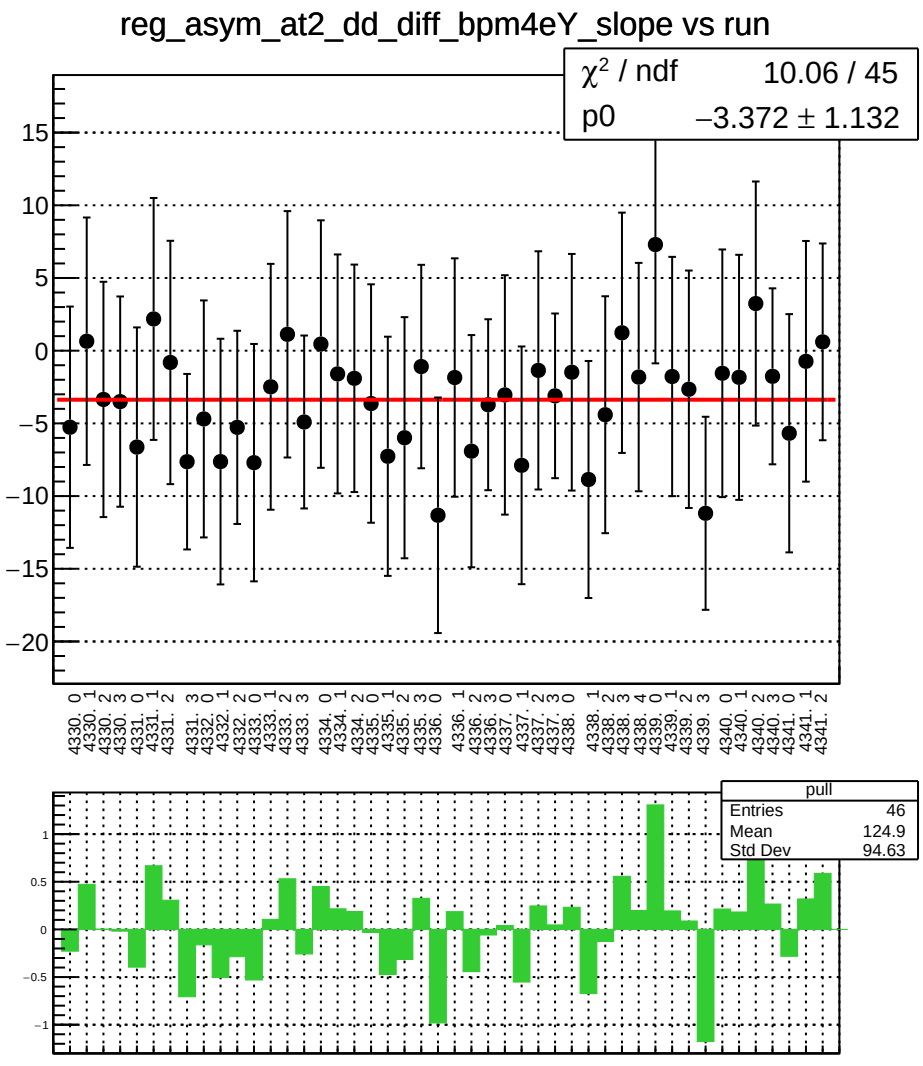

pull1D
Entries 46
Mean −0.007396
Std Dev 0.5756

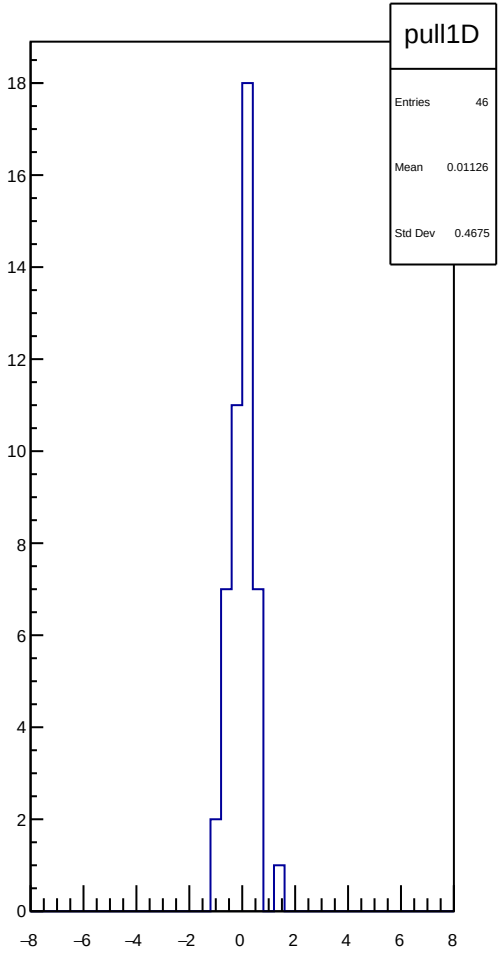

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.262 / 45
p0 −41.85 ± 0.9526
pull
Entries 46
Mean −33.48
Std Dev 76.11

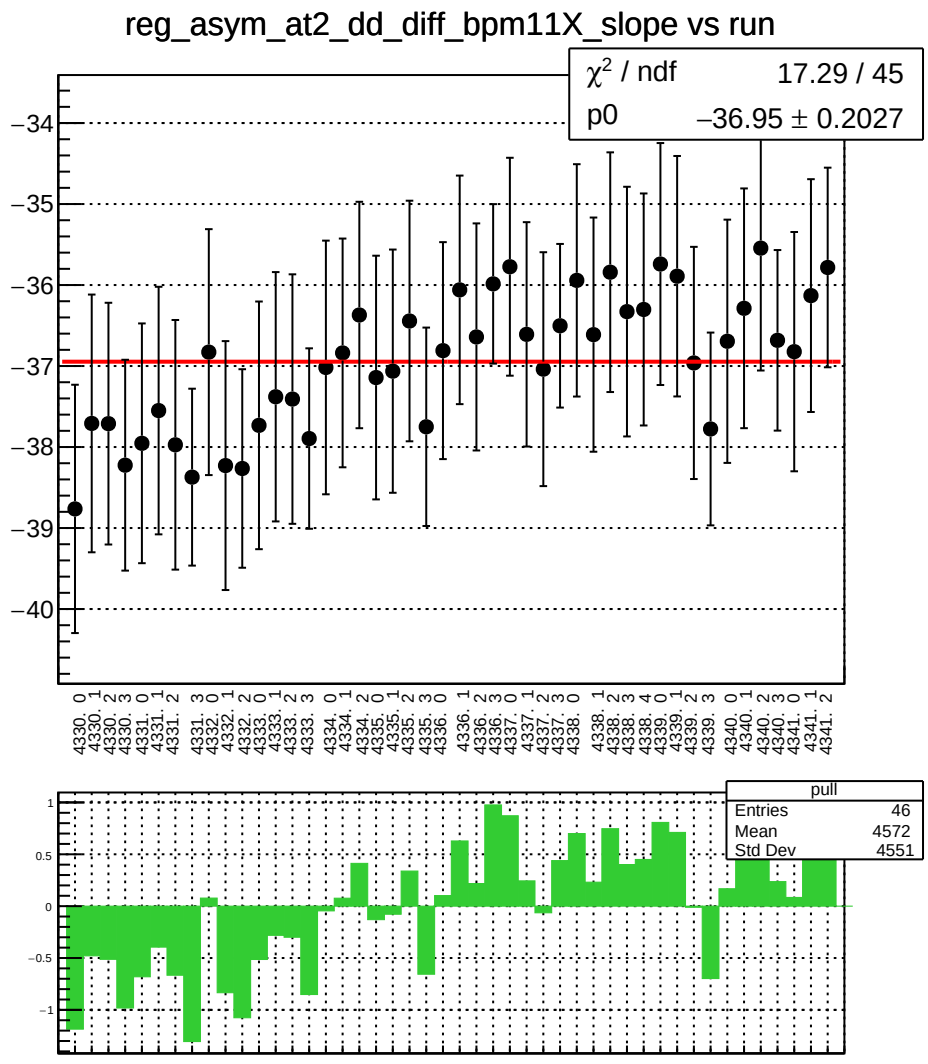

pull1D
Entries 46
Mean 0.009288
Std Dev 0.3972

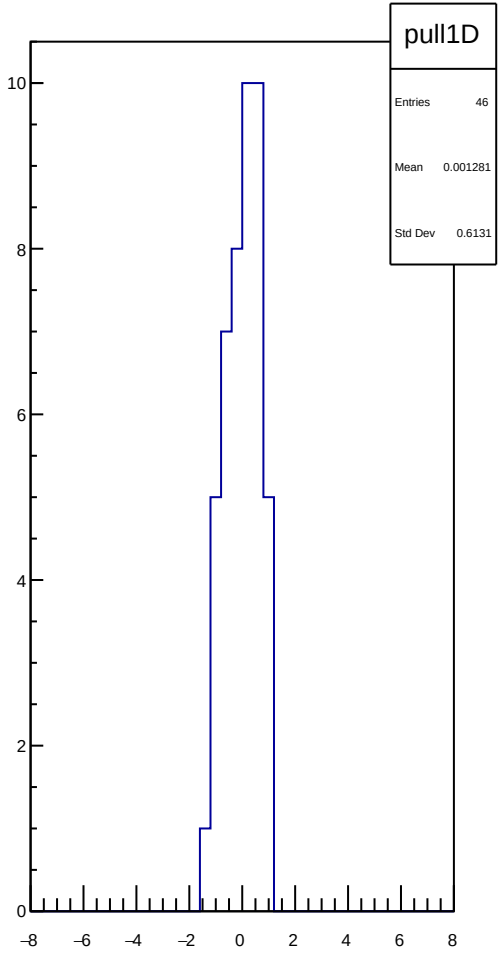

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.36 / 45
p0 5.033 ± 1.043
pull
Entries 46
Mean 110.3
Std Dev 83.32
pull1D
Entries 46
Mean −0.01362
Std Dev 0.4509

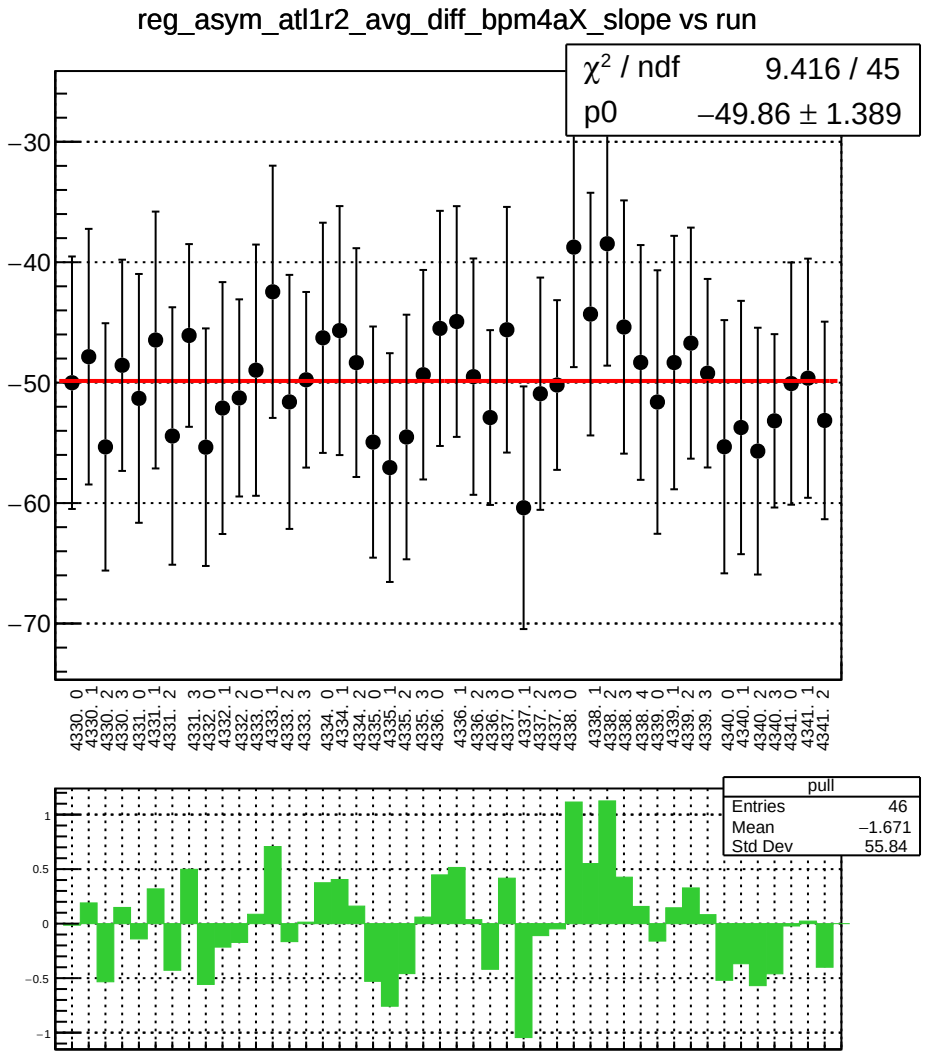

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.23 / 45
p0 52.75 ± 0.1665
55
54
53
52
51
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −242.9
Std Dev 269.6
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01088
Std Dev 0.5363
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

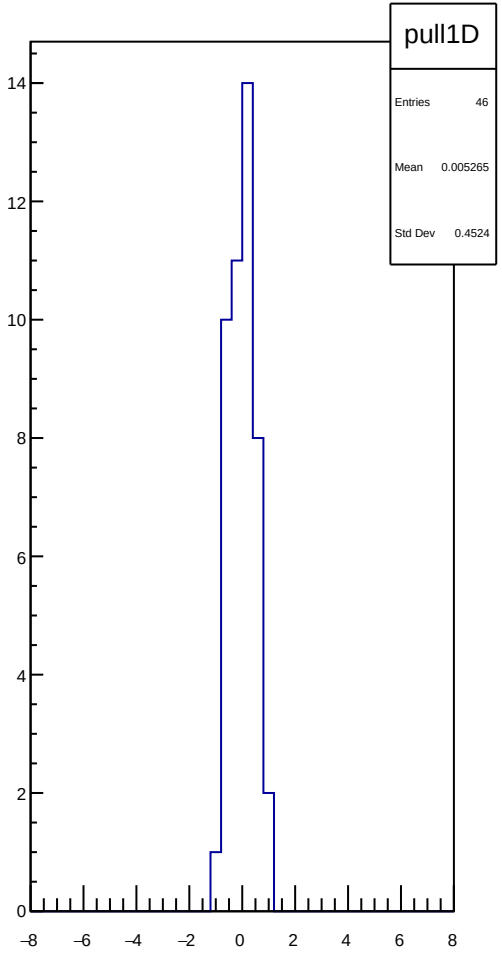

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.06 / 45
p0 −3.372 ± 1.132
pull
Entries 46
Mean 124.9
Std Dev 94.63

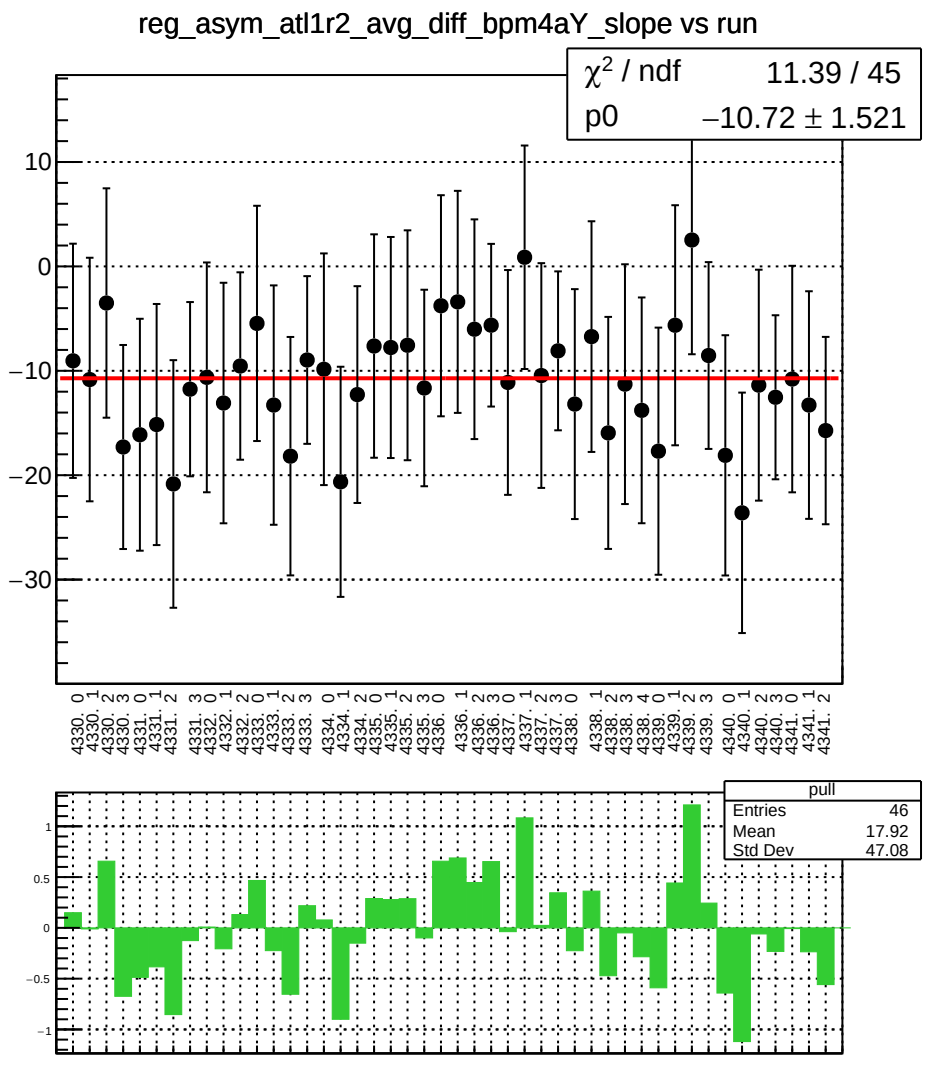

pull1D
Entries 46
Mean 0.01126
Std Dev 0.4675

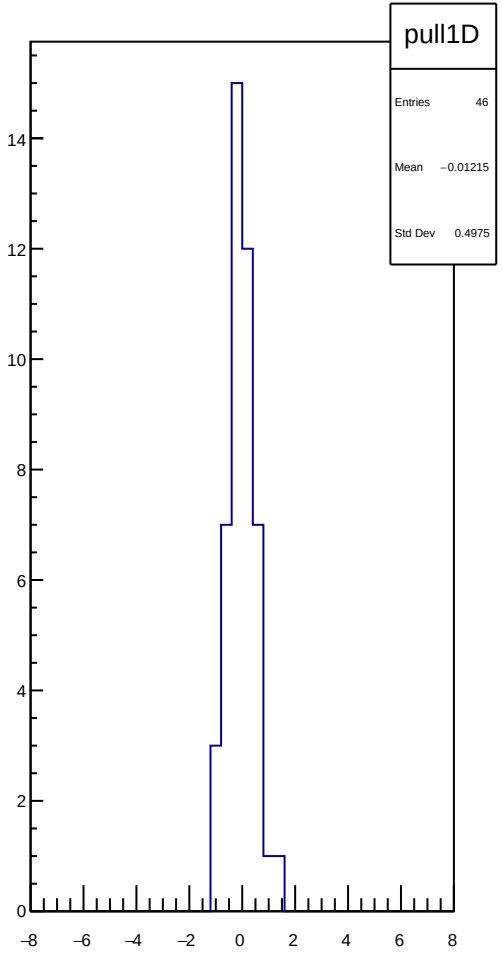

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 17.29 / 45
p0 −36.95 ± 0.2027
pull
Entries 46
Mean 4572
Std Dev 4551

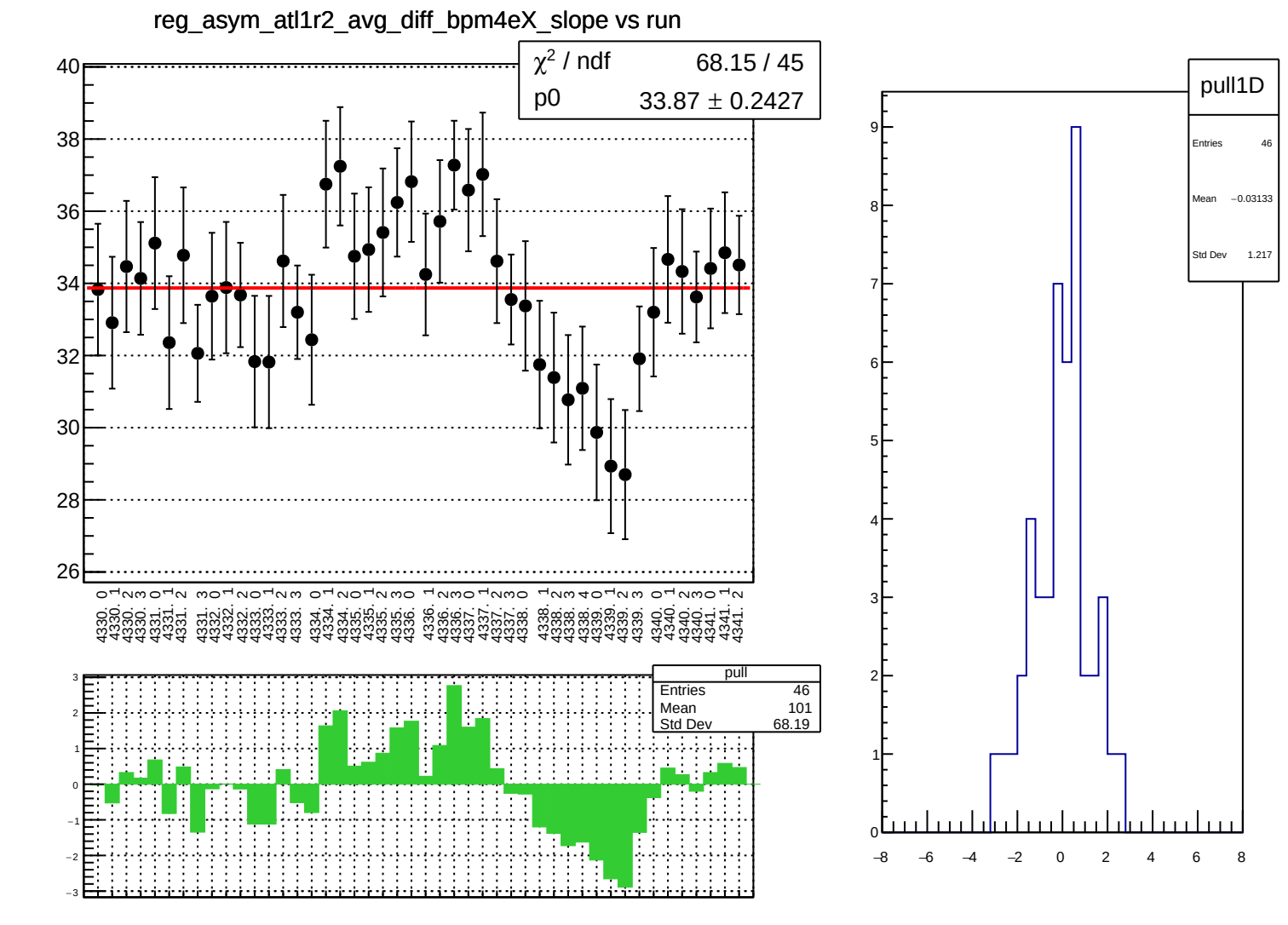

pull1D
Entries 46
Mean 0.001281
Std Dev 0.6131

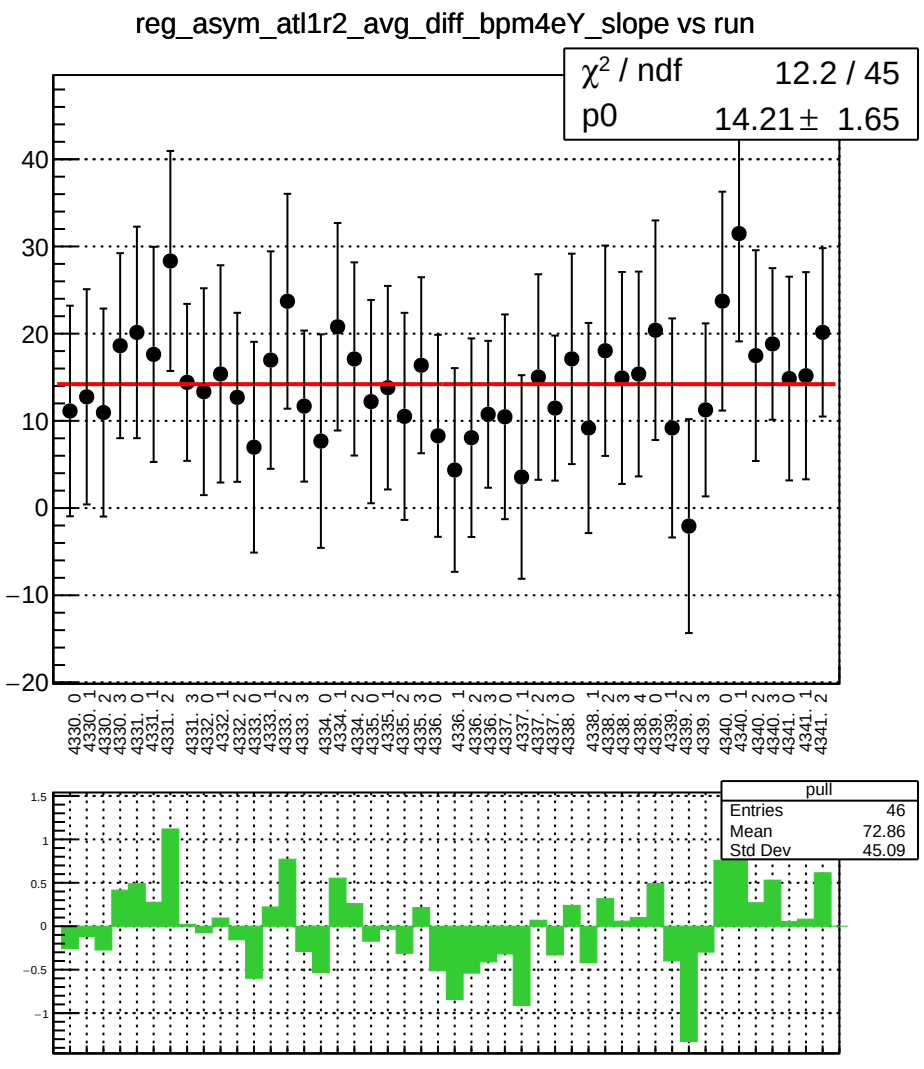

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.416 / 45
p0 −49.86 ± 1.389
pull
Entries 46
Mean −1.671
Std Dev 55.84

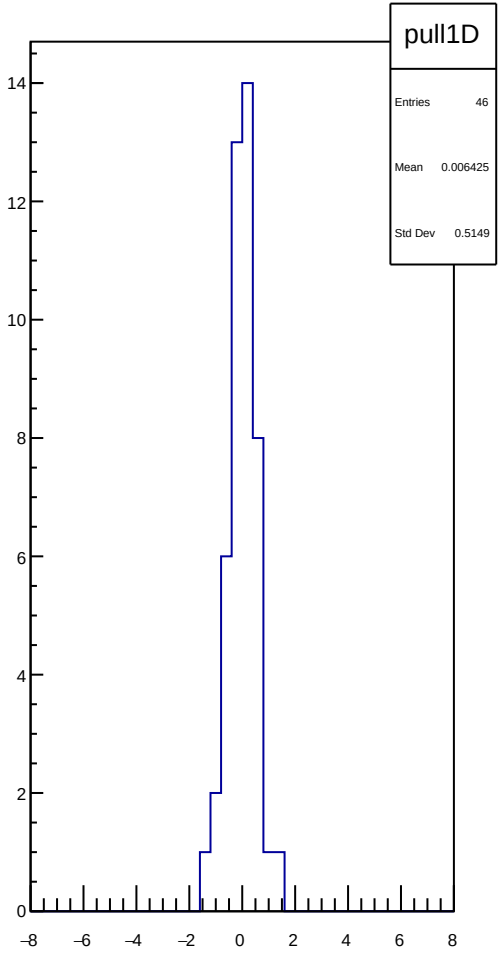

pull1D
Entries 46
Mean 0.005265
Std Dev 0.4524

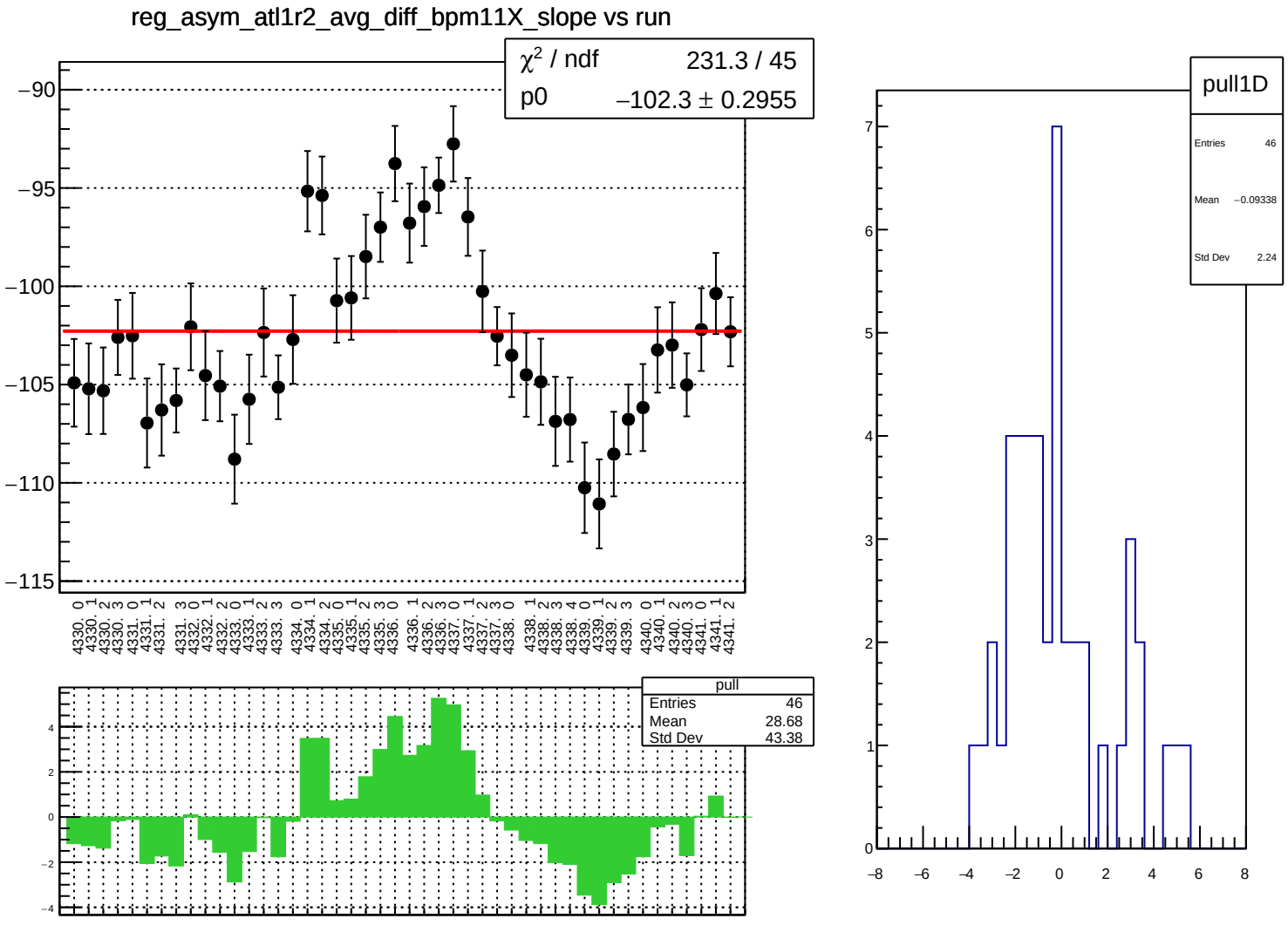

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.39 / 45
p0 −10.72 ± 1.521
10
0
−10
−20
−30
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 17.92
Std Dev 47.08
1
0.5
0
−0.5
−1

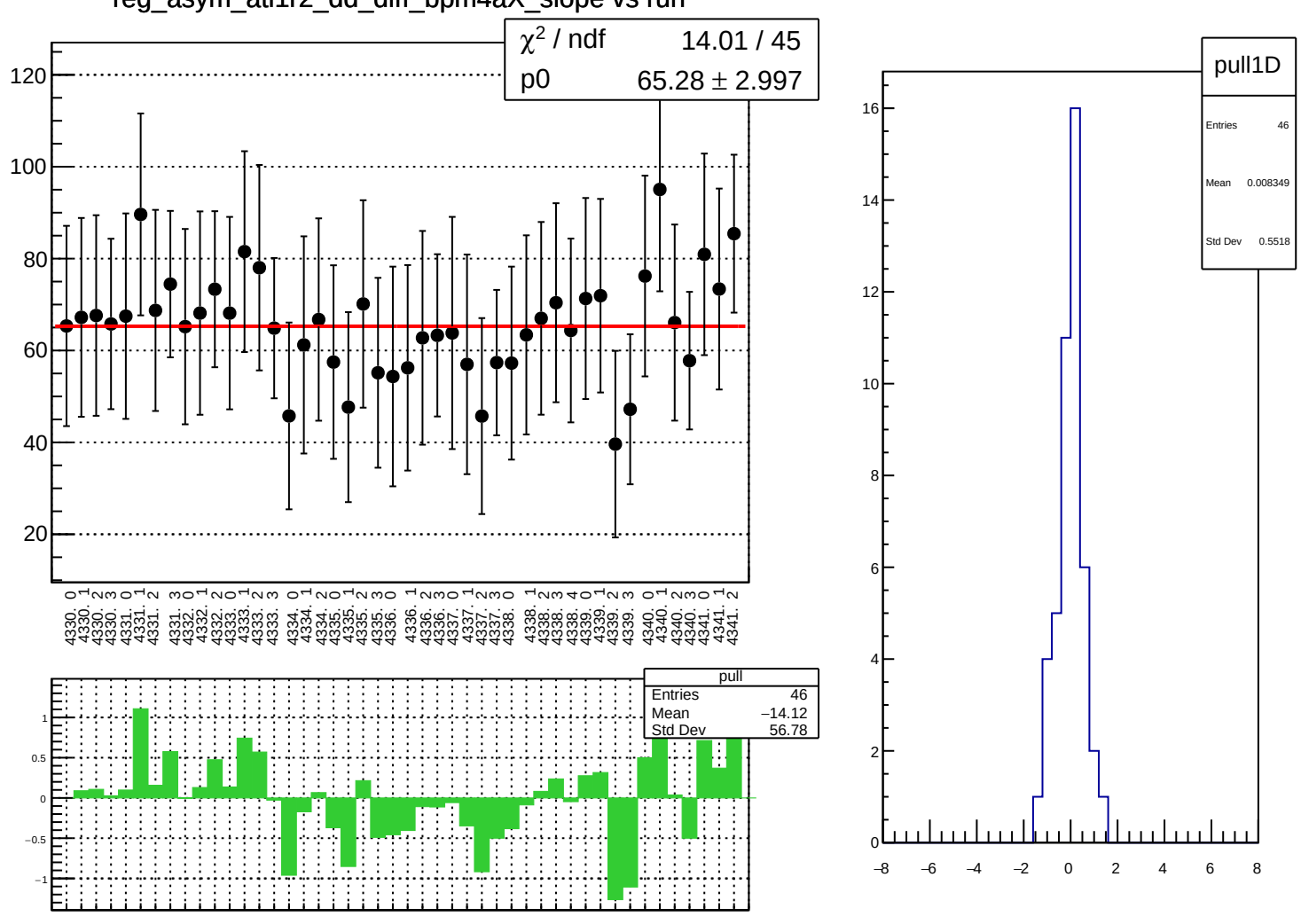

pull1D
Entries 46
Mean −0.01215
Std Dev 0.4975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

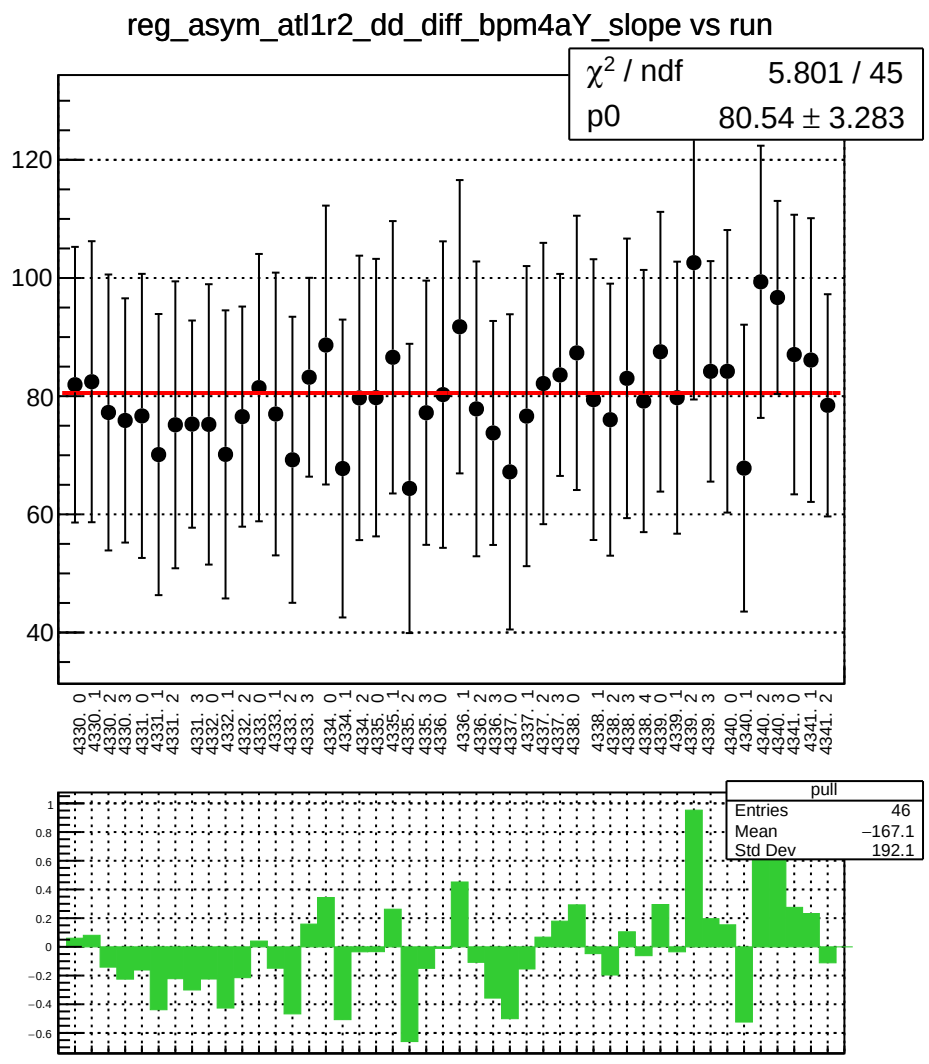

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.15 / 45
p0 33.87 ± 0.2427
pull
Entries 46
Mean 101
Std Dev 68.19
pull1D
Entries 46
Mean −0.03133
Std Dev 1.217

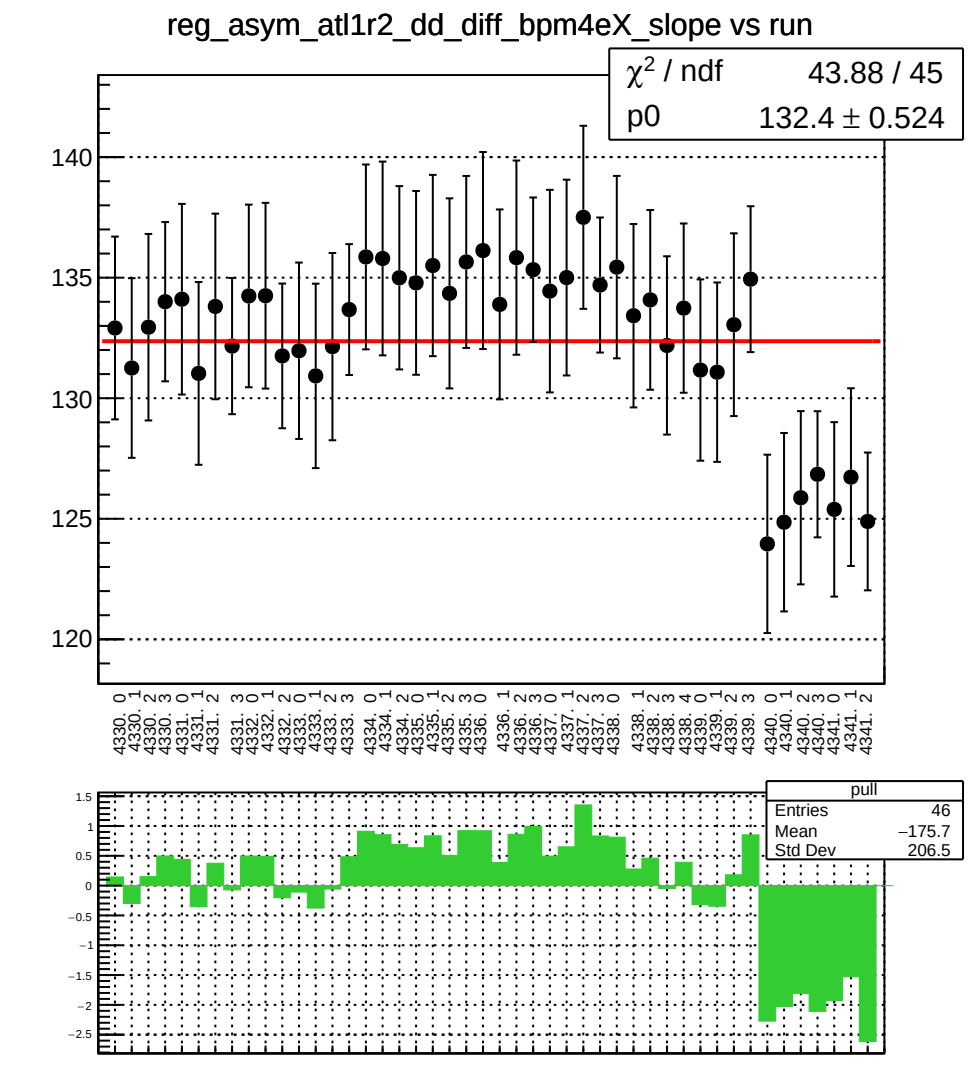

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 45
p0 14.21 ± 1.65
pull
Entries 46
Mean 72.86
Std Dev 45.09

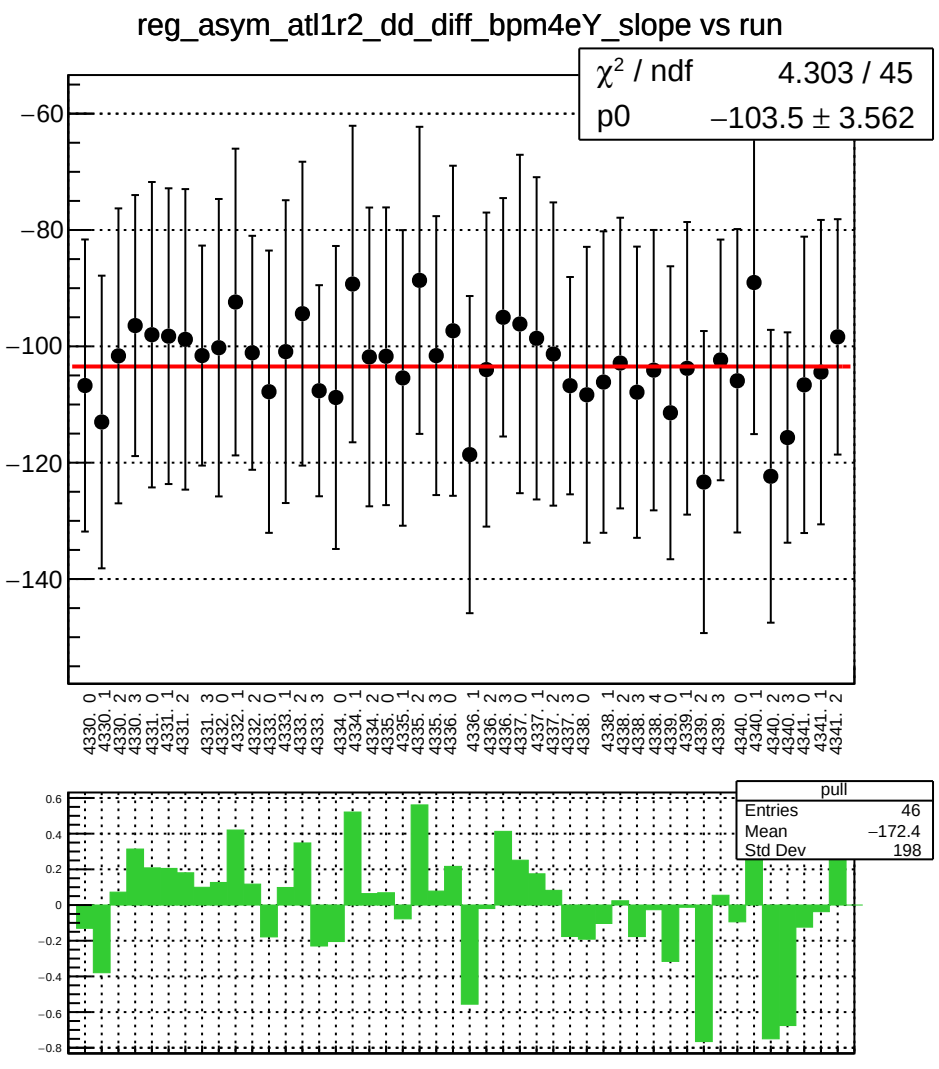

pull1D
Entries 46
Mean 0.006425
Std Dev 0.5149

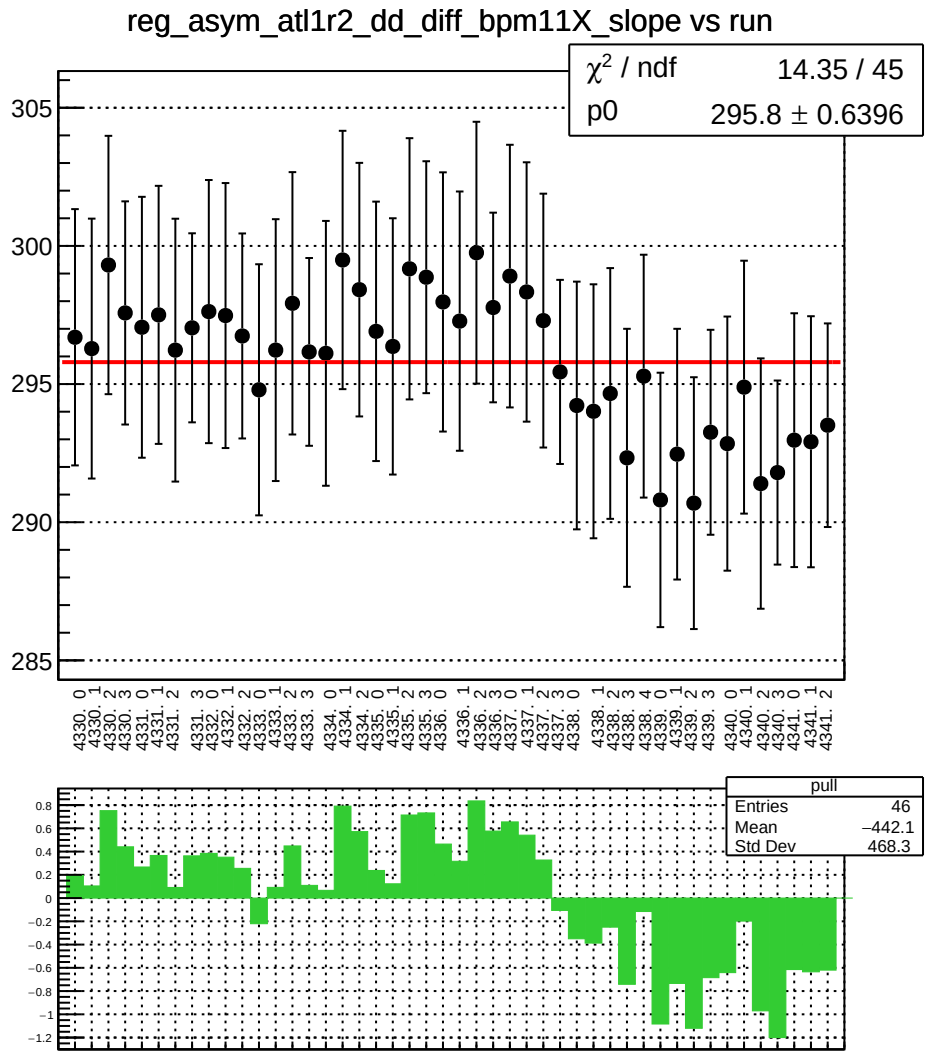

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 231.3 / 45
p0 −102.3 ± 0.2955
pull
Entries 46
Mean 28.68
Std Dev 43.38
pull1D
Entries 46
Mean −0.09338
Std Dev 2.24

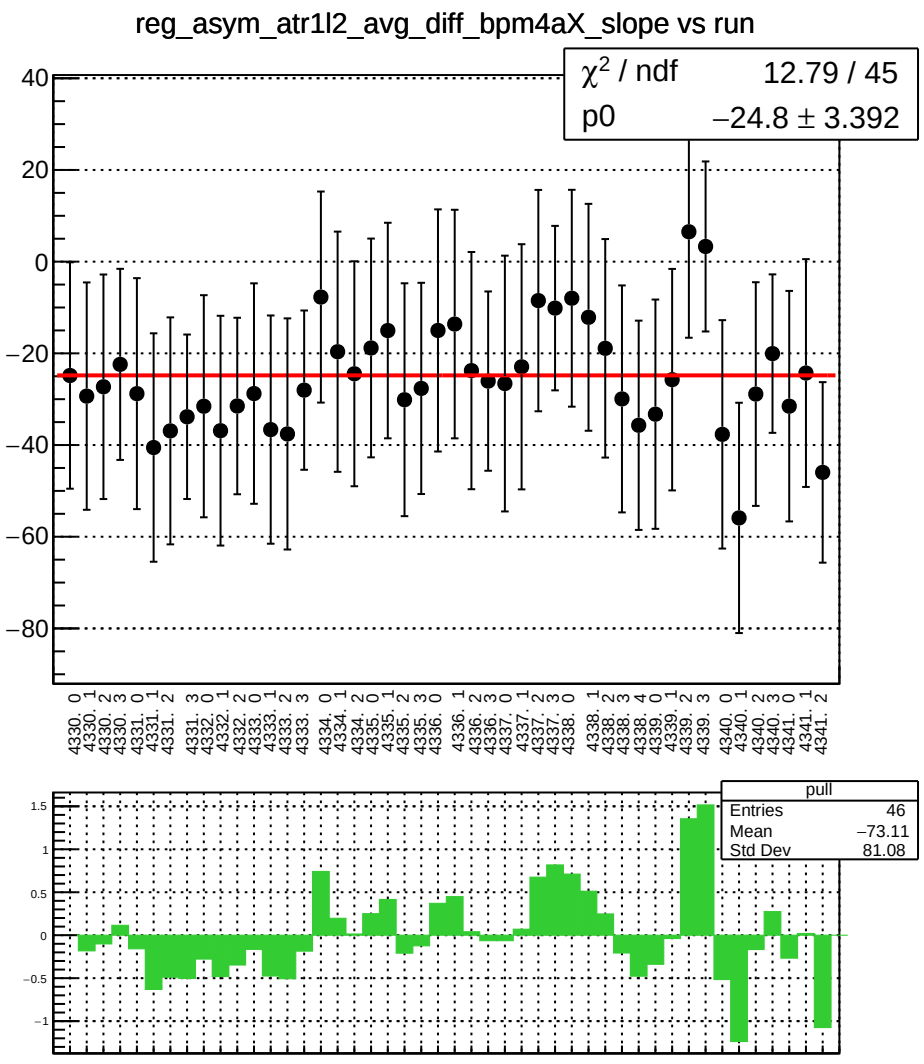

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.01 / 45
p0 65.28 ± 2.997
pull
Entries 46
Mean −14.12
Std Dev 56.78
pull1D
Entries 46
Mean 0.008349
Std Dev 0.5518

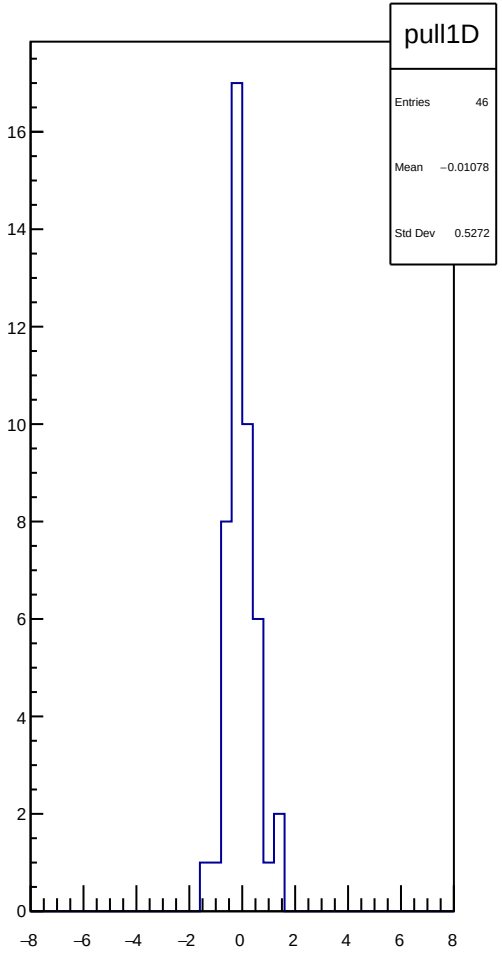

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.801 / 45
p0 80.54 ± 3.283
120
100
80
60
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −167.1
Std Dev 192.1
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.01093
Std Dev 0.355
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

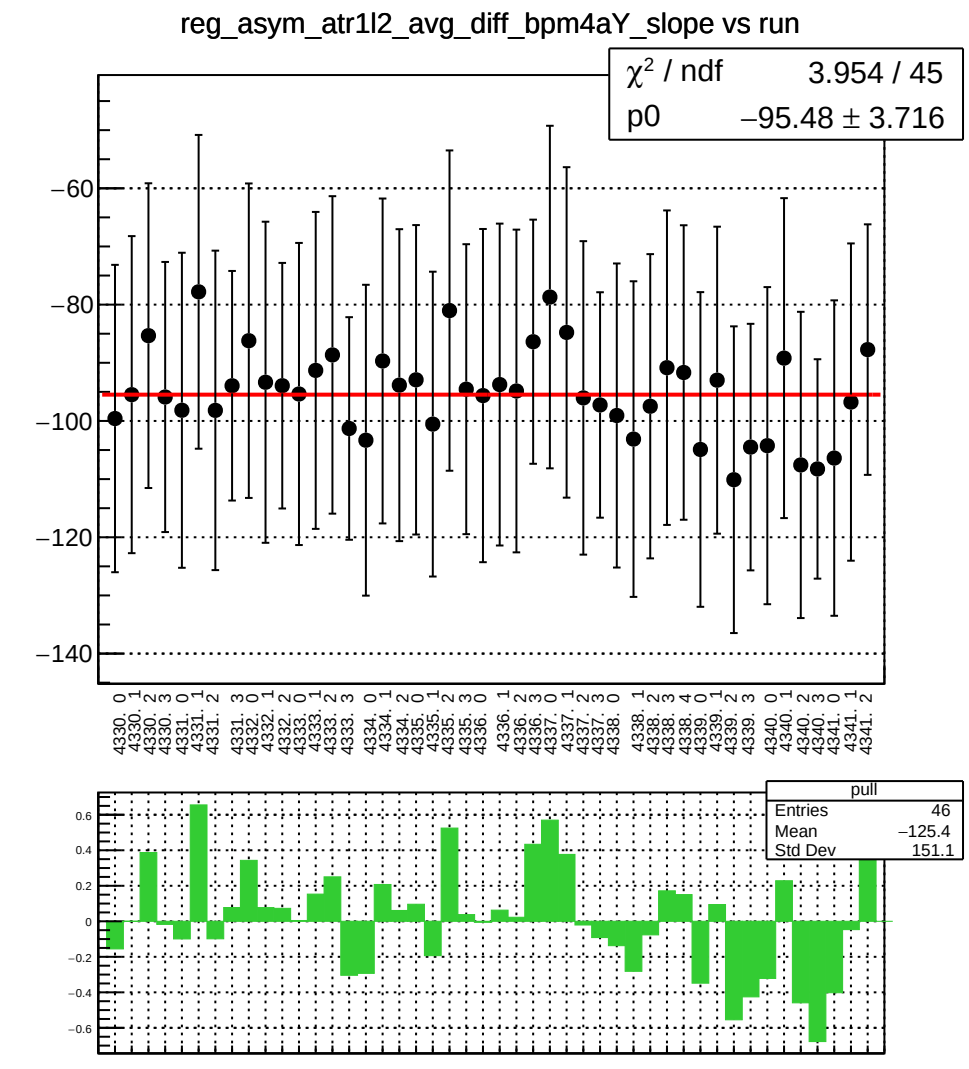

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.88 / 45
p0 132.4 ± 0.524
140
135
130
125
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −175.7
Std Dev 206.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 46
Mean 0.03114
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

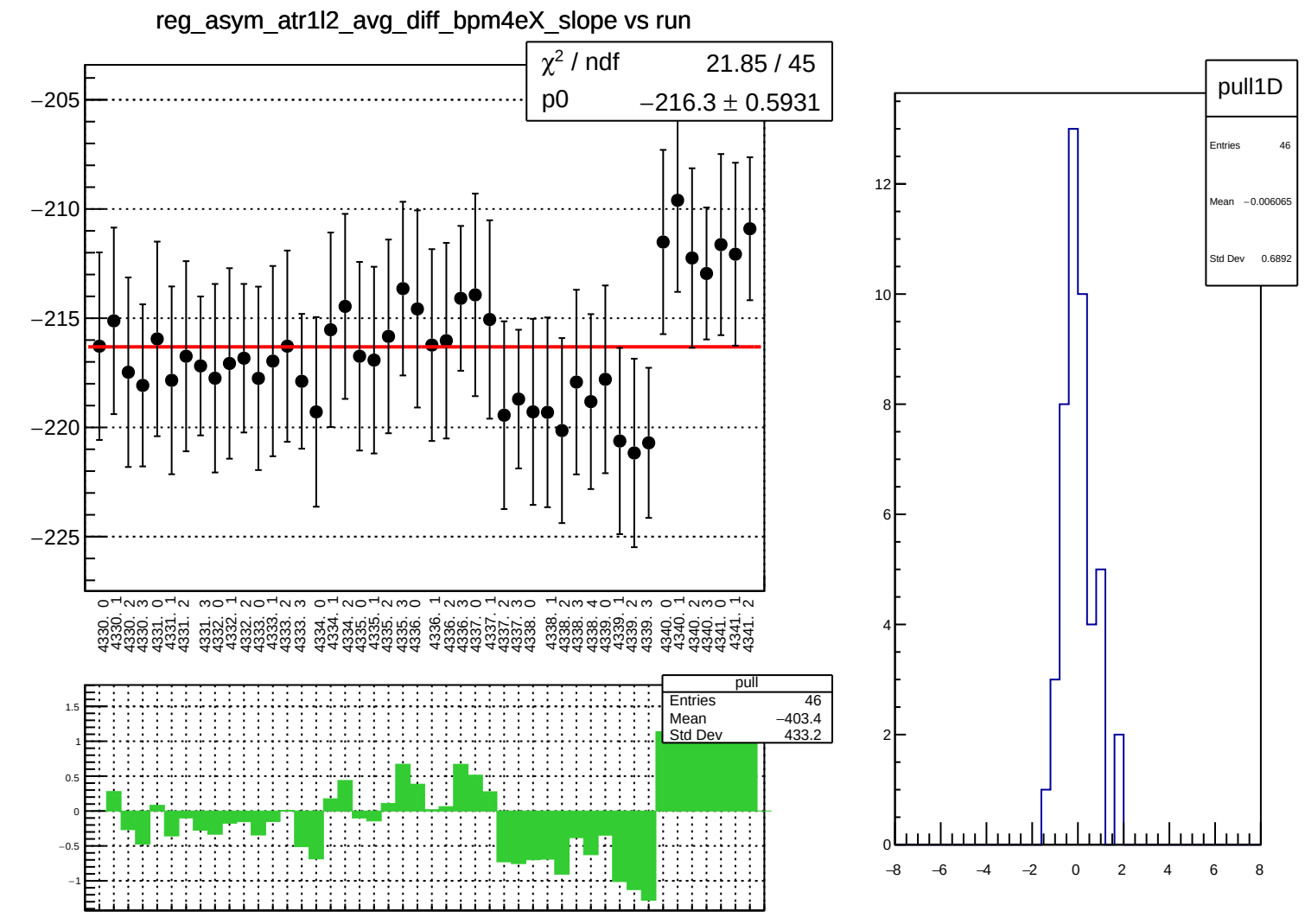

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.303 / 45
p0 −103.5 ± 3.562
−60
−80
−100
−120
−140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −172.4
Std Dev 198
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.006131
Std Dev 0.3058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

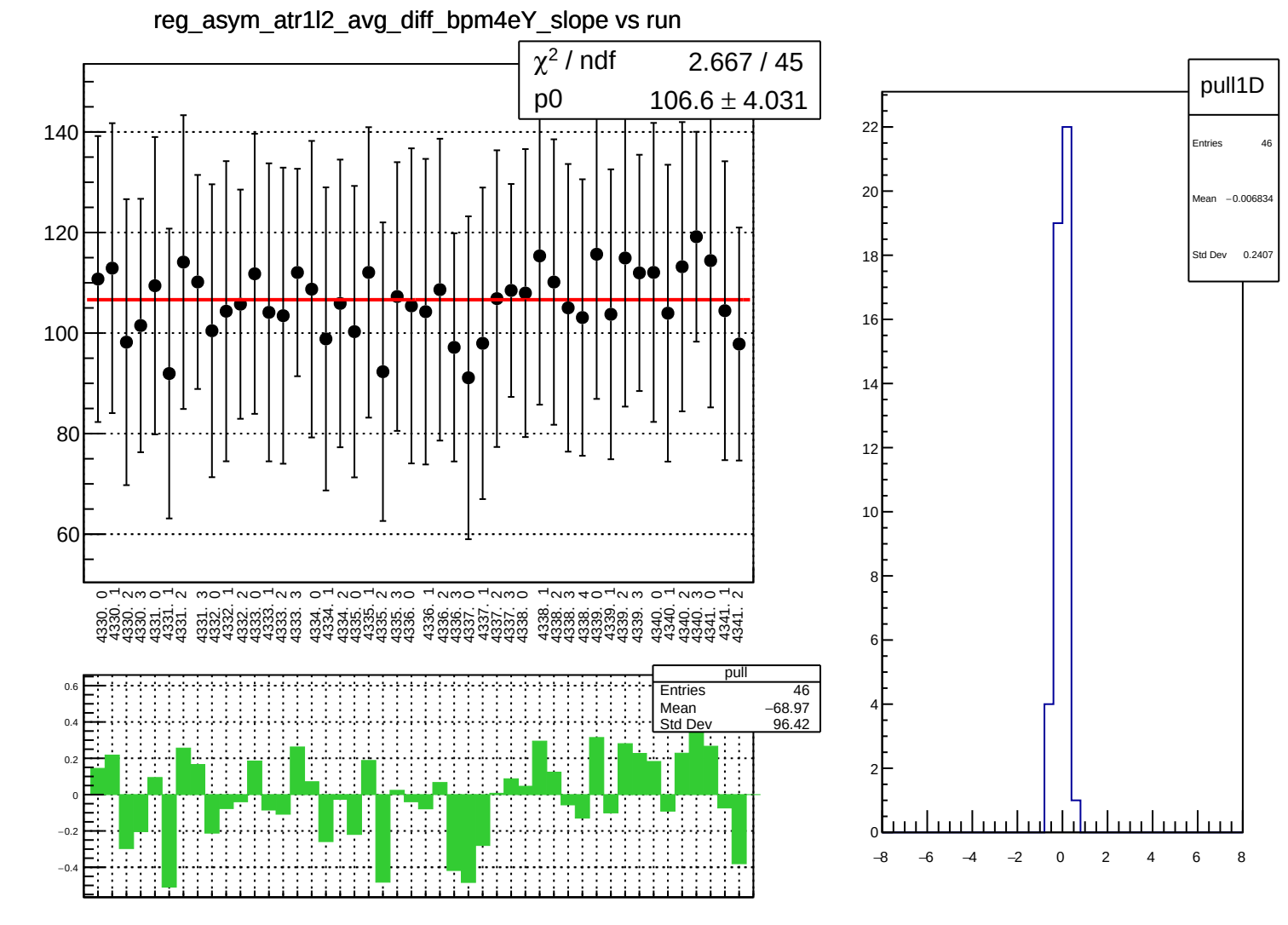

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 14.35 / 45
p0 295.8 ± 0.6396
305
300
295
290
285
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −442.1
Std Dev 468.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 46
Mean 0.01095
Std Dev 0.5584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

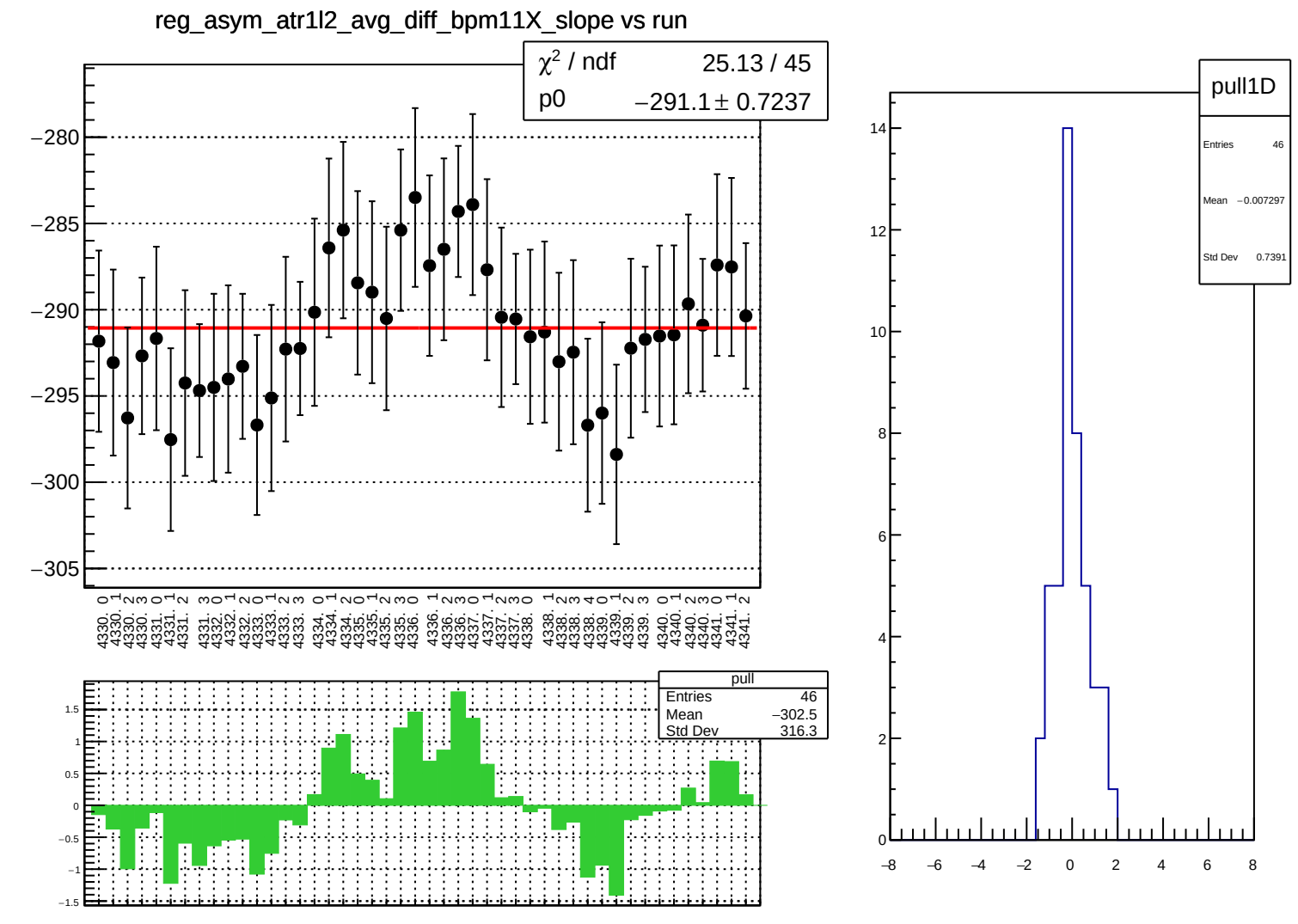

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.79 / 45
p0 −24.8 ± 3.392
pull
Entries 46
Mean −73.11
Std Dev 81.08

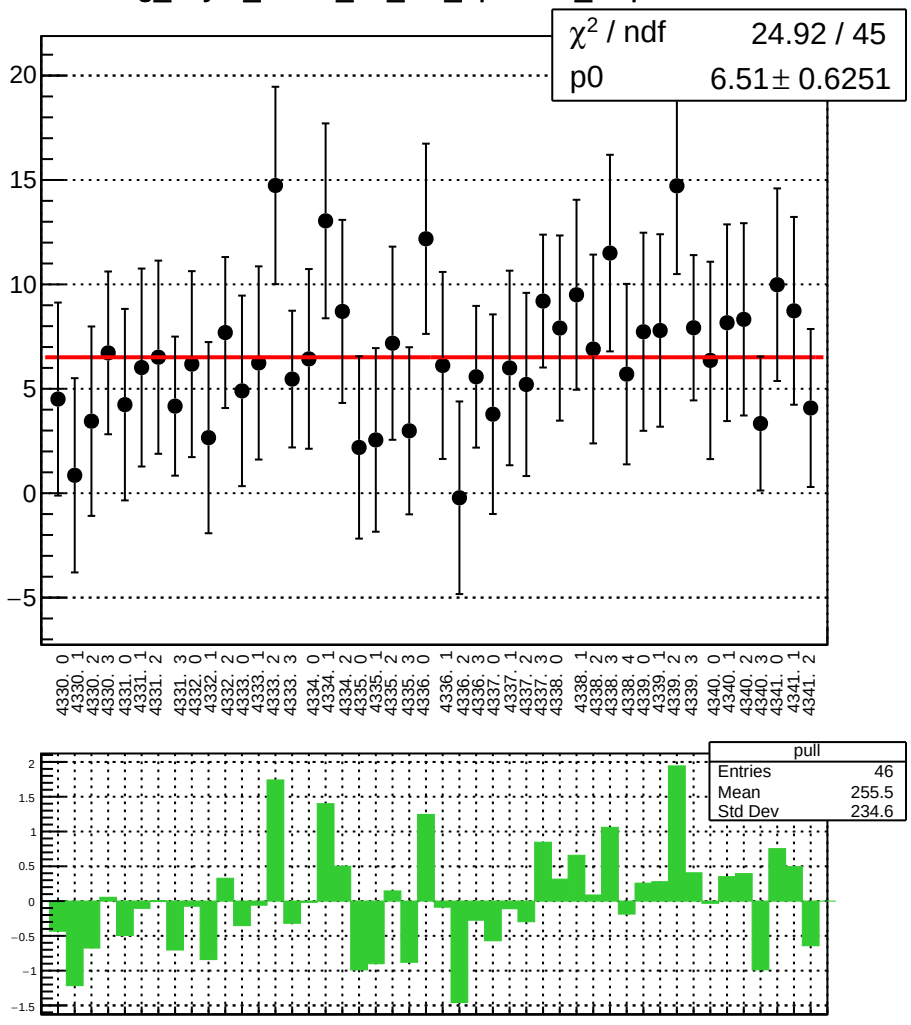

pull1D
Entries 46
Mean −0.01078
Std Dev 0.5272

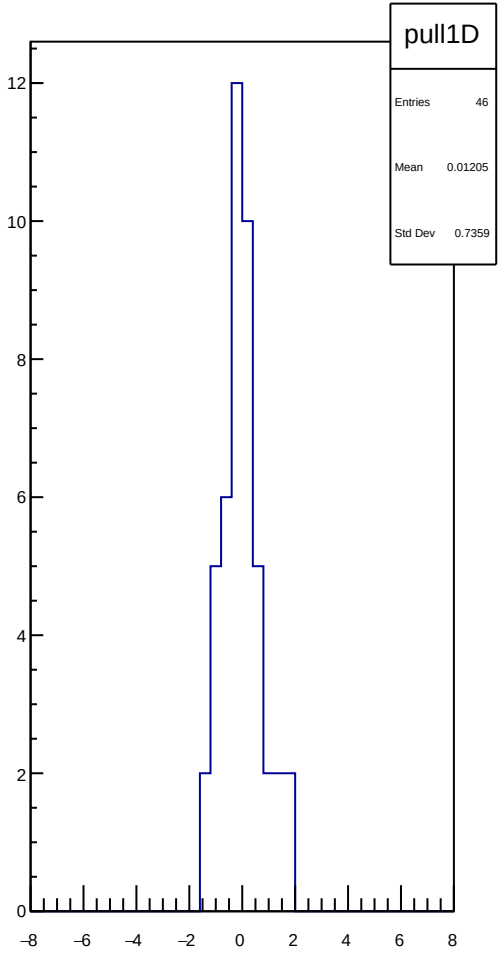

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.954 / 45
p0 −95.48 ± 3.716
−60
−80
−100
−120
−140
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −125.4
Std Dev 151.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean 0.008889
Std Dev 0.293
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

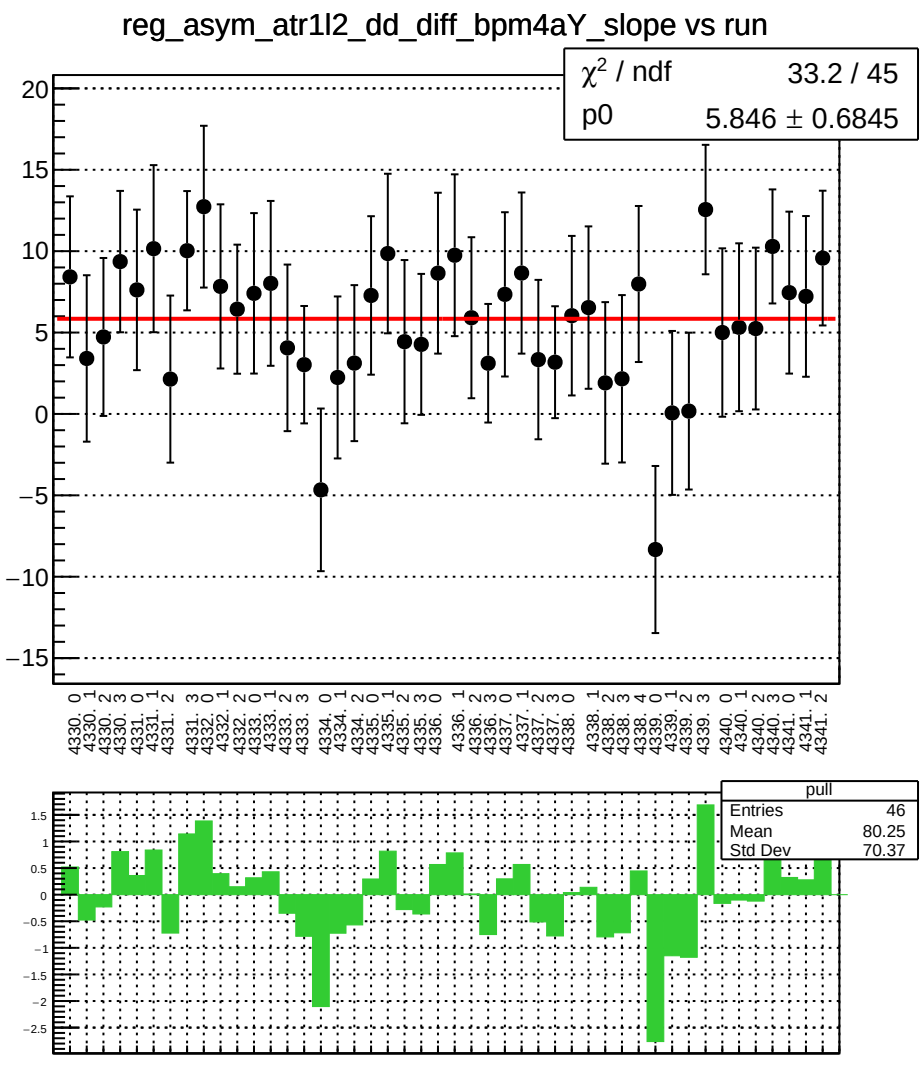

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.85 / 45
p0 −216.3 ± 0.5931
−205
−210
−215
−220
−225
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −403.4
Std Dev 433.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.006065
Std Dev 0.6892
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

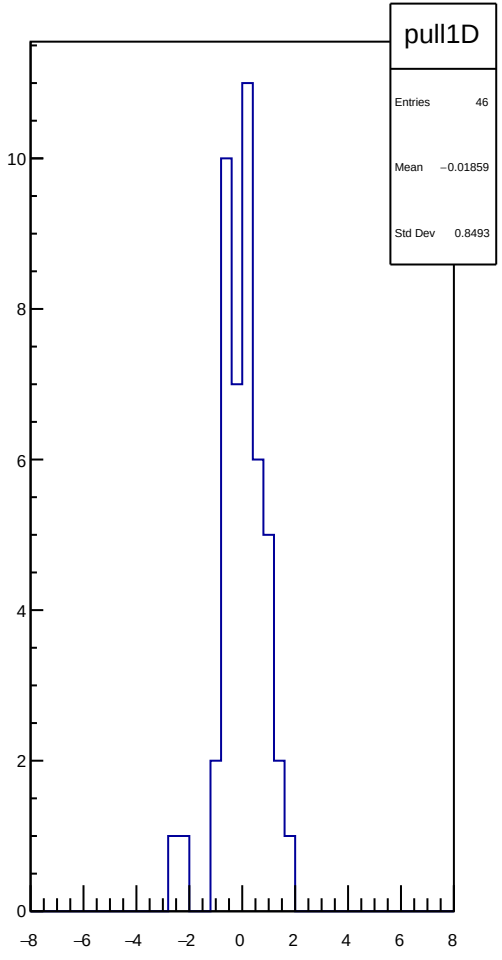

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.667 / 45
p0 106.6 ± 4.031
pull
Entries 46
Mean −68.97
Std Dev 96.42
pull1D
Entries 46
Mean −0.006834
Std Dev 0.2407

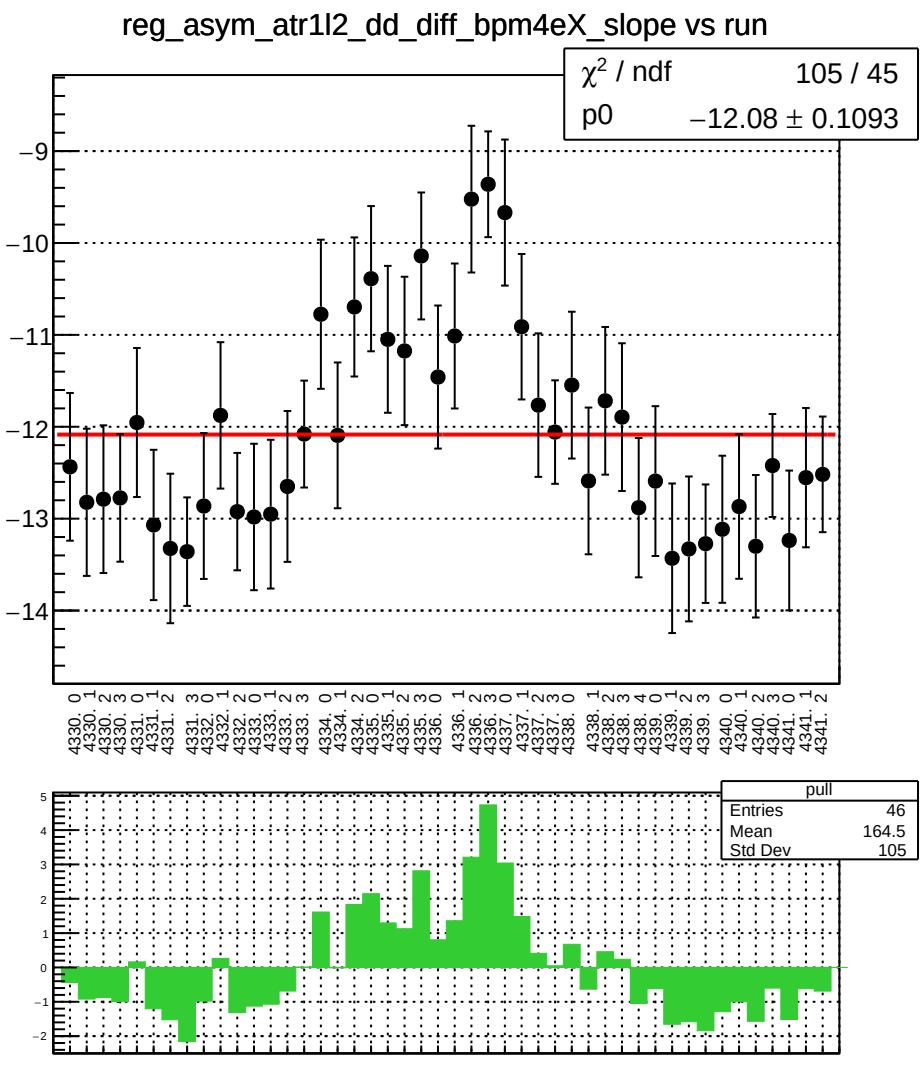

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 25.13 / 45
p0 −291.1 ± 0.7237
−280
−285
−290
−295
−300
−305
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −302.5
Std Dev 316.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.007297
Std Dev 0.7391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

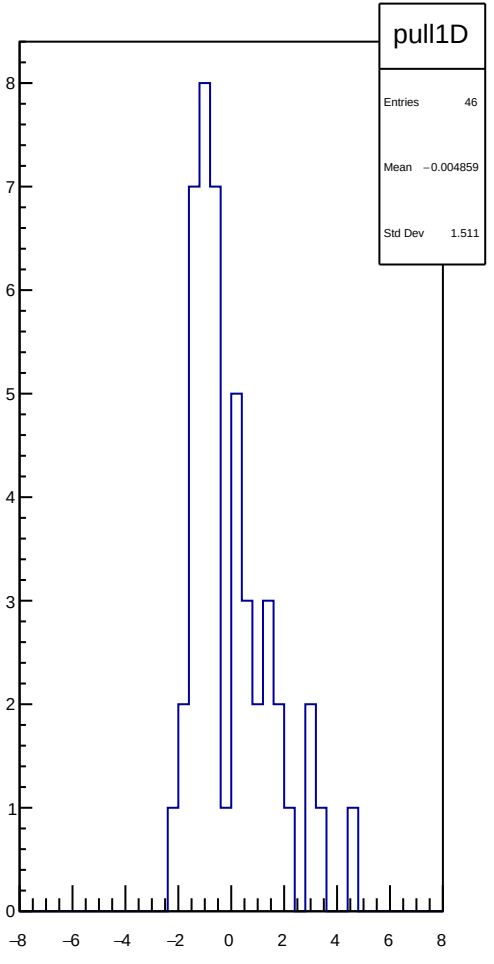

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.92 / 45
p0 6.51 ± 0.6251
pull
Entries 46
Mean 255.5
Std Dev 234.6

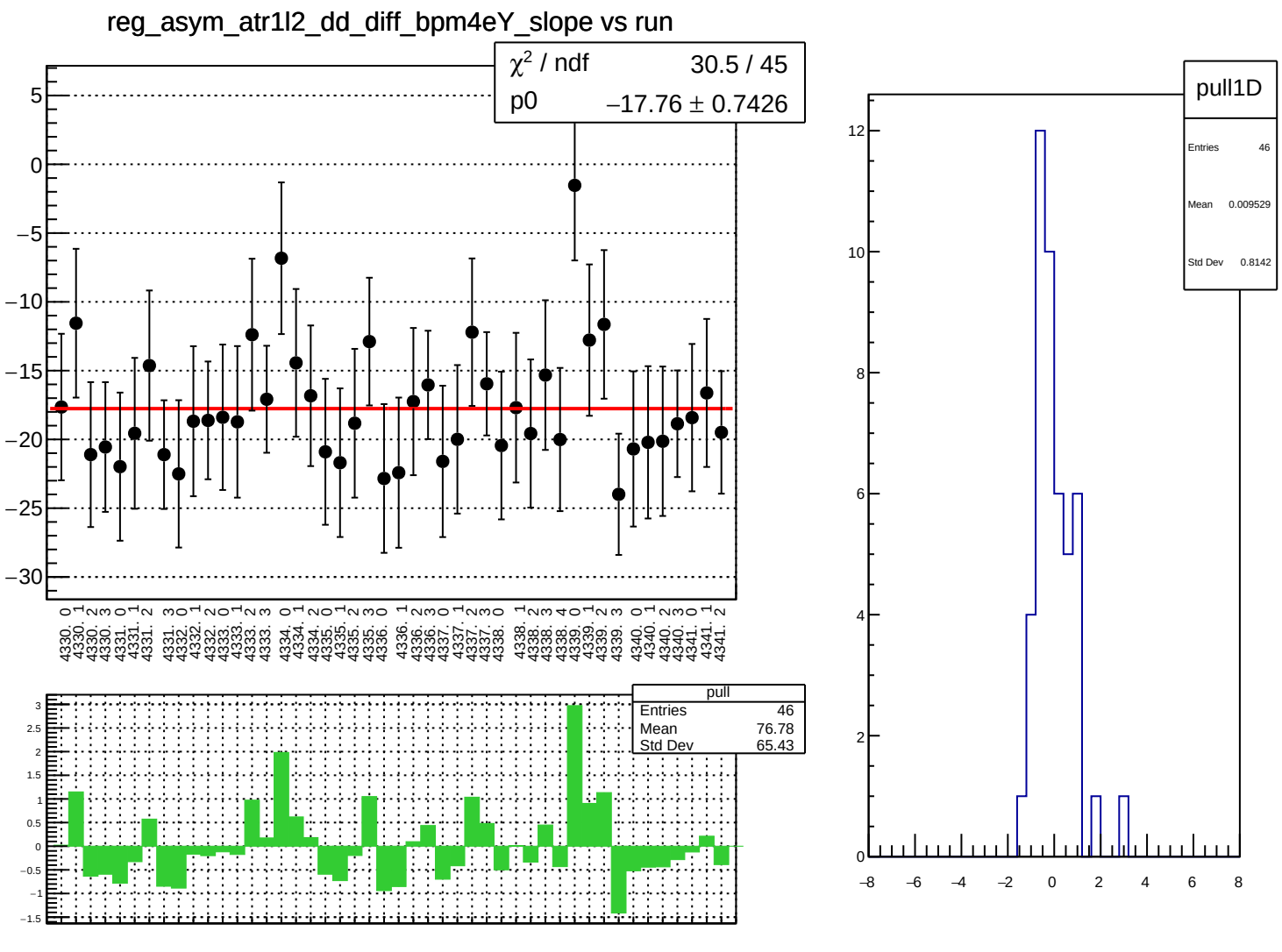

pull1D
Entries 46
Mean 0.01205
Std Dev 0.7359

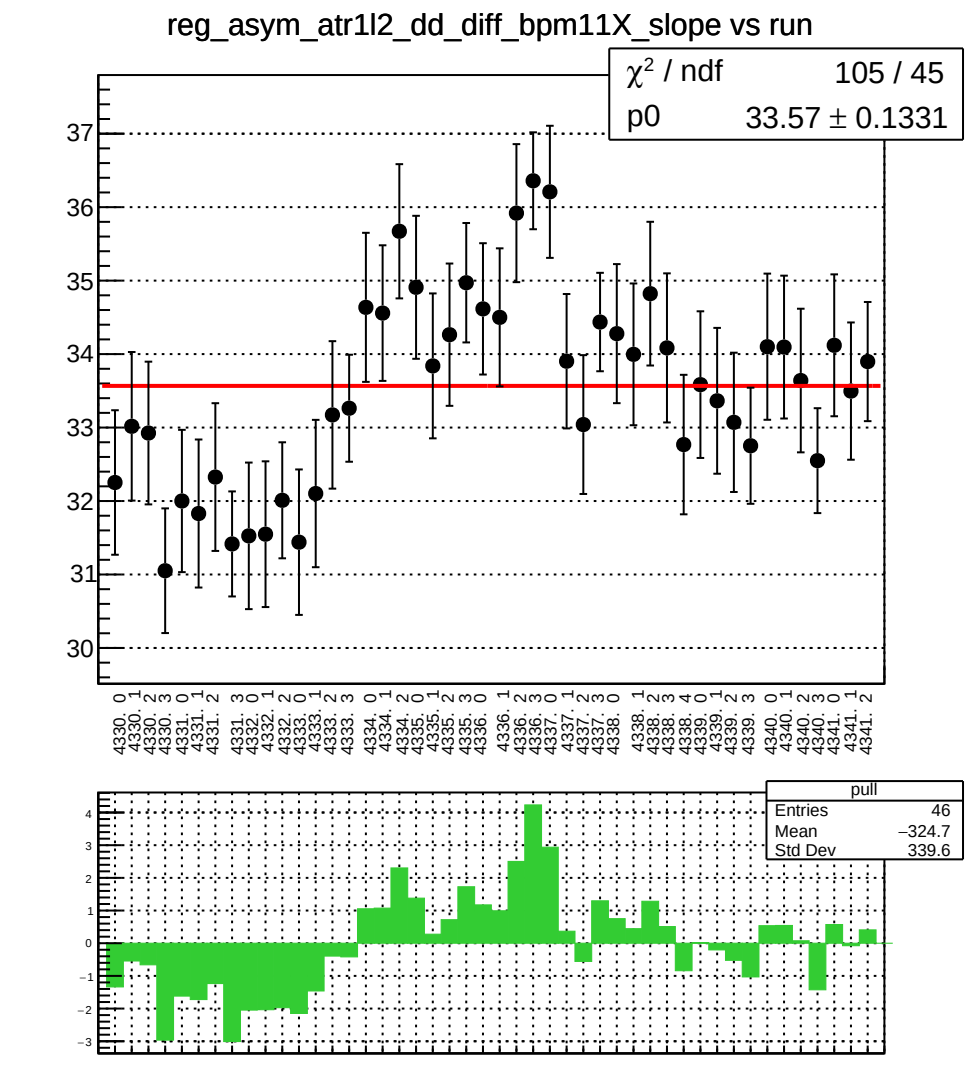

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.2 / 45
p0 5.846 ± 0.6845
pull
Entries 46
Mean 80.25
Std Dev 70.37

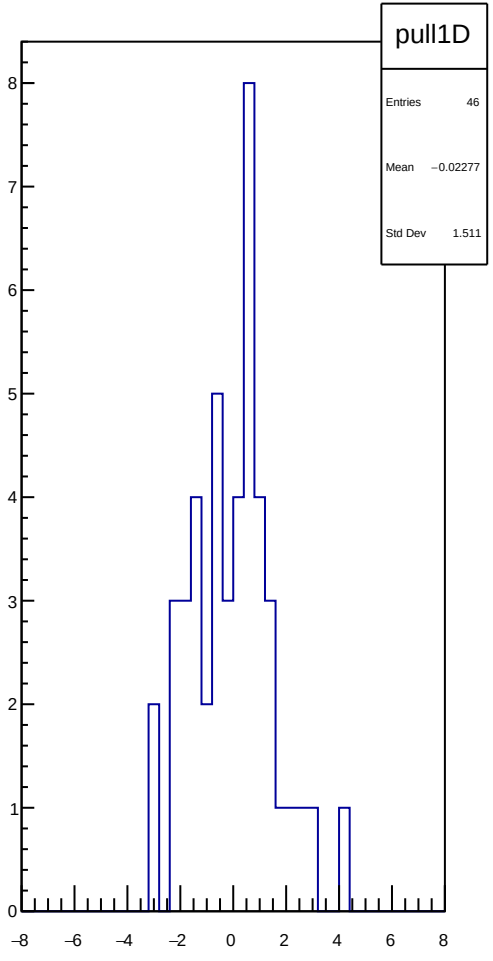

pull1D
Entries 46
Mean −0.01859
Std Dev 0.8493

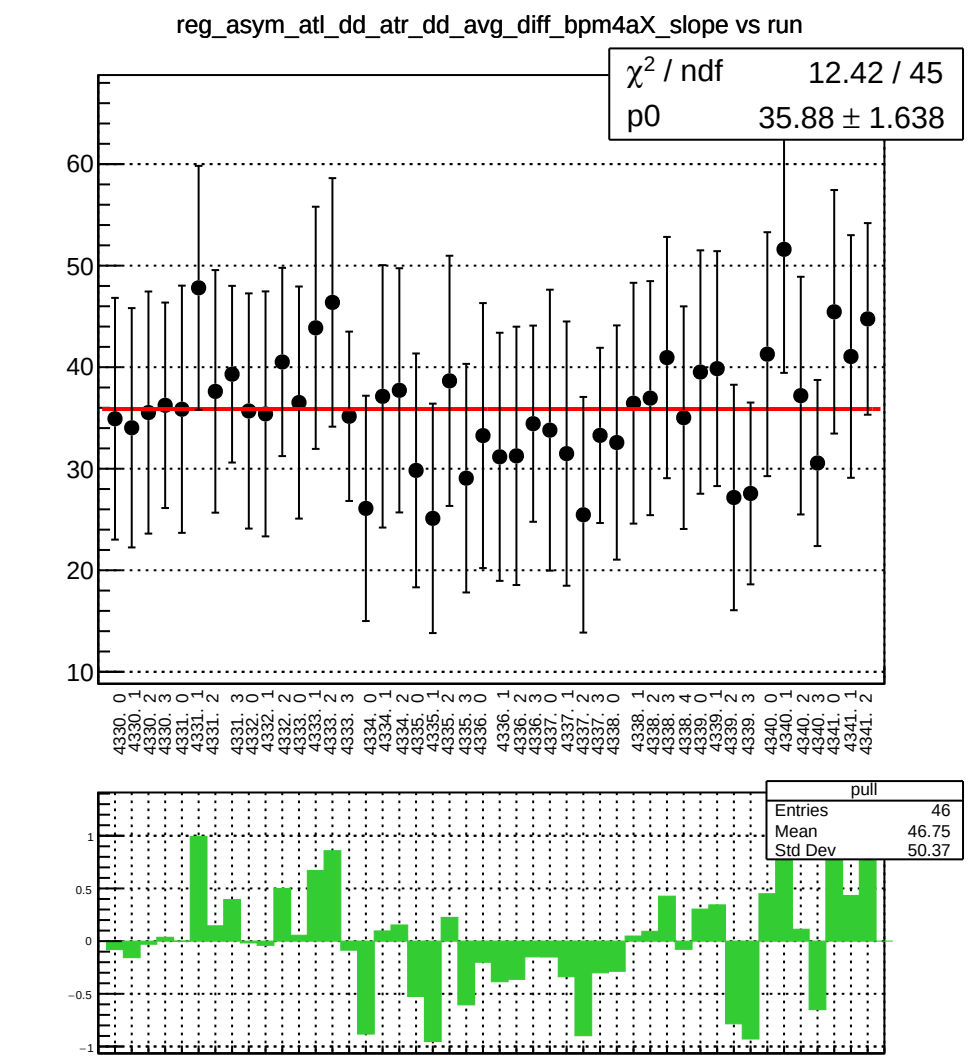

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 105 / 45
p0 −12.08 ± 0.1093
pull
Entries 46
Mean 164.5
Std Dev 105

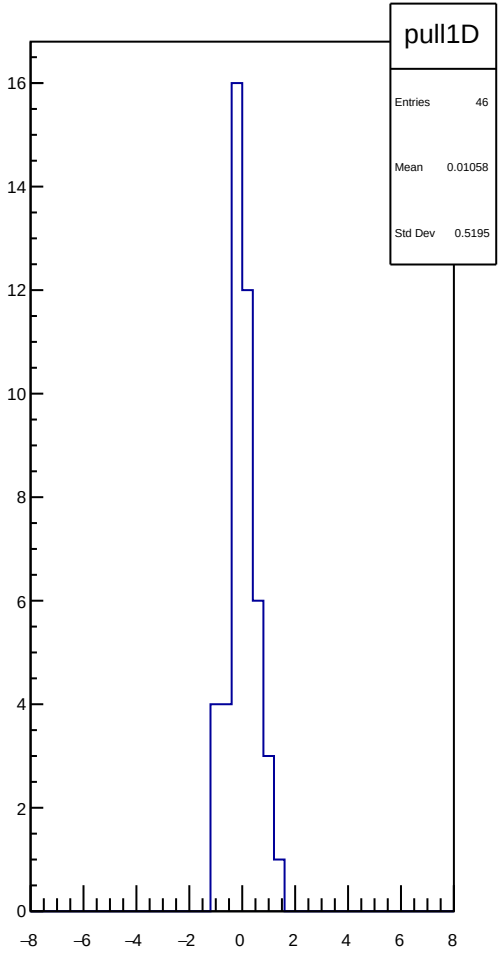

pull1D
Entries 46
Mean −0.004859
Std Dev 1.511

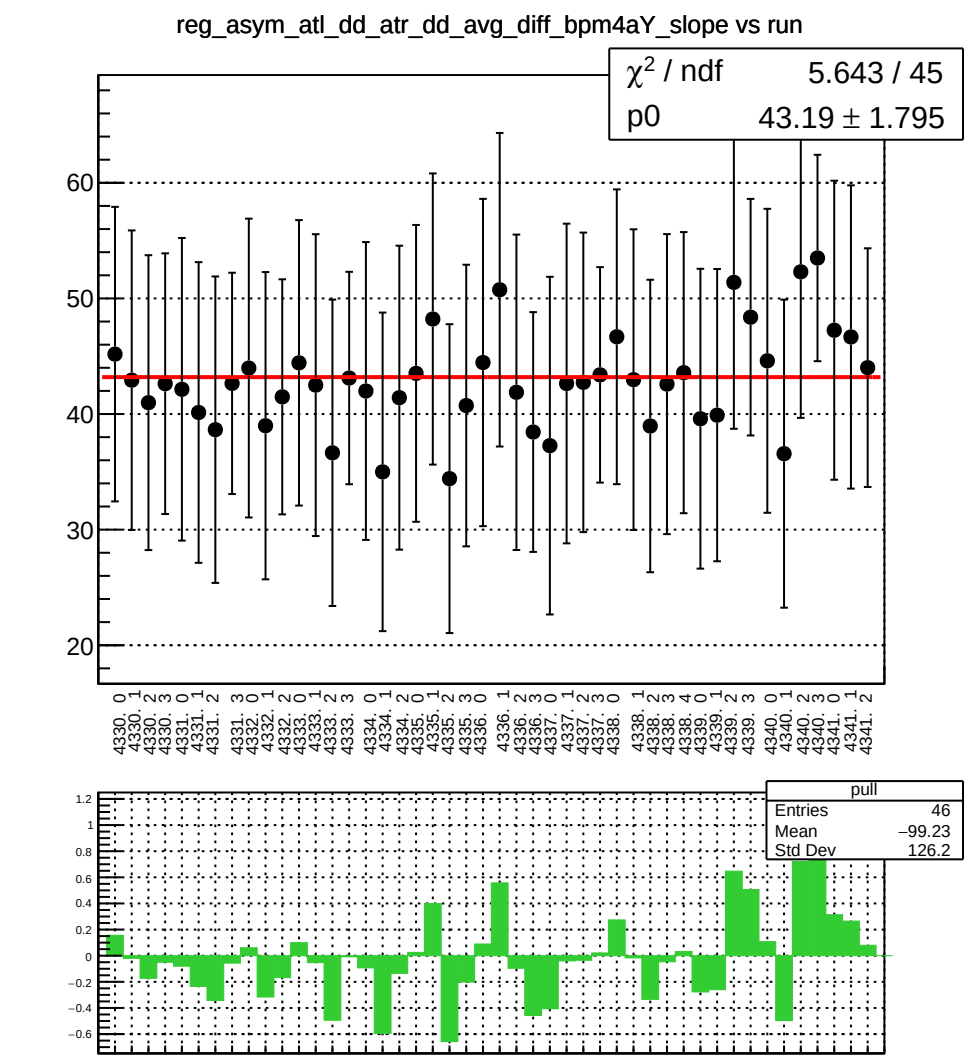

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.5 / 45
p0 −17.76 ± 0.7426
pull
Entries 46
Mean 76.78
Std Dev 65.43
pull1D
Entries 46
Mean 0.009529
Std Dev 0.8142

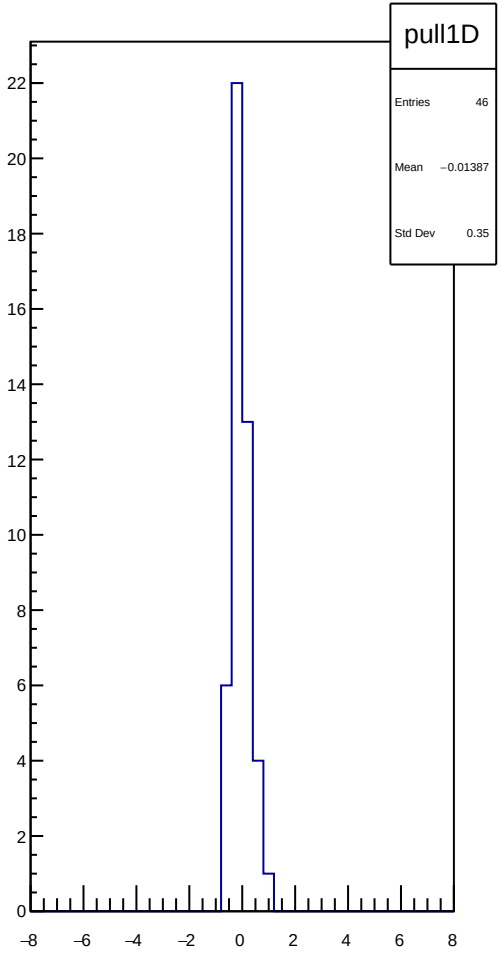

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 105 / 45
p0 33.57 ± 0.1331
pull
Entries 46
Mean −324.7
Std Dev 339.6

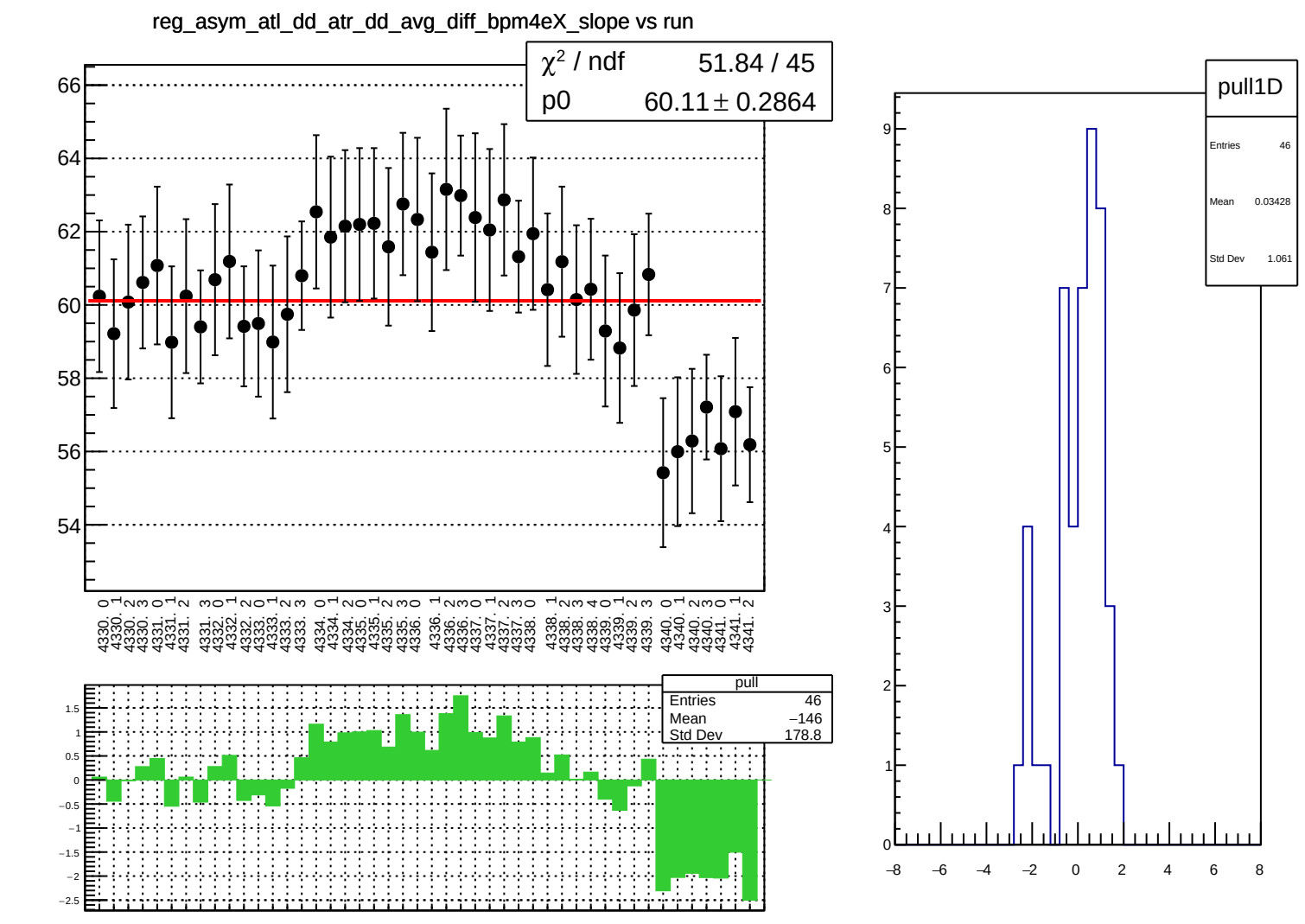

pull1D
Entries 46
Mean −0.02277
Std Dev 1.511

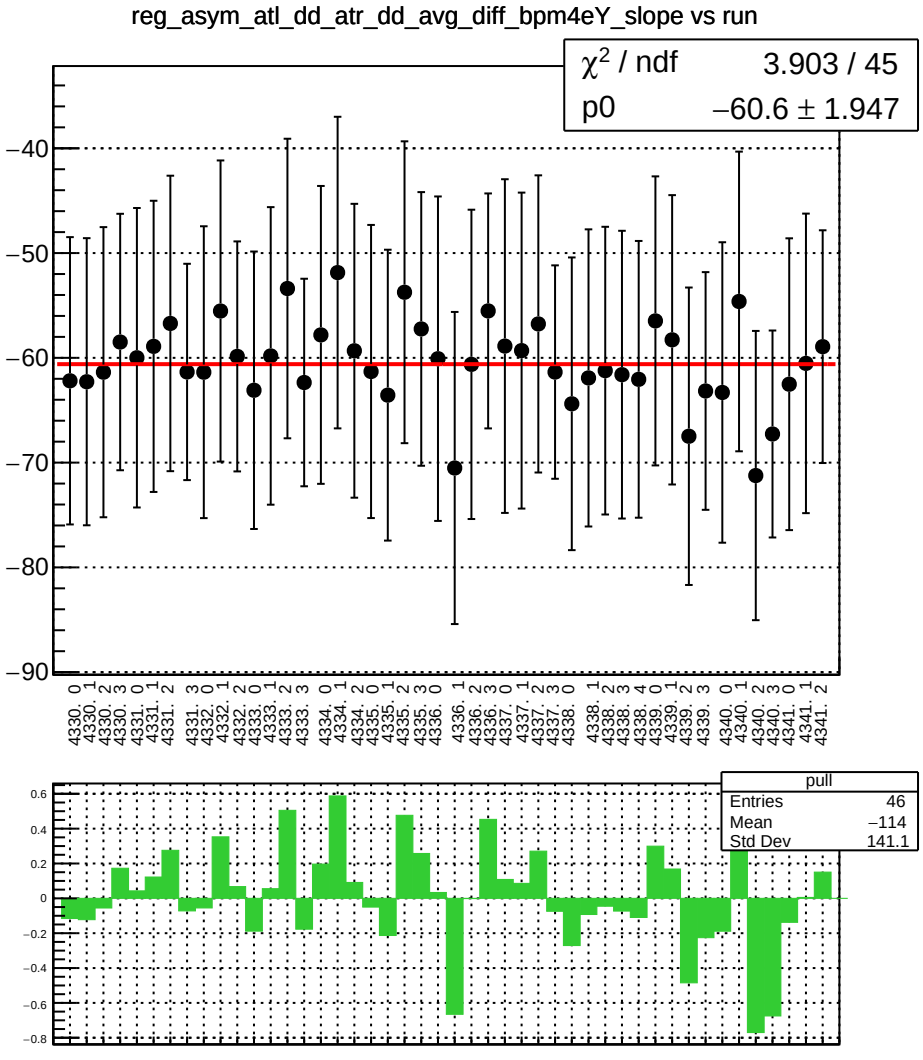

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.42 / 45
p0 35.88 ± 1.638
pull
Entries 46
Mean 46.75
Std Dev 50.37

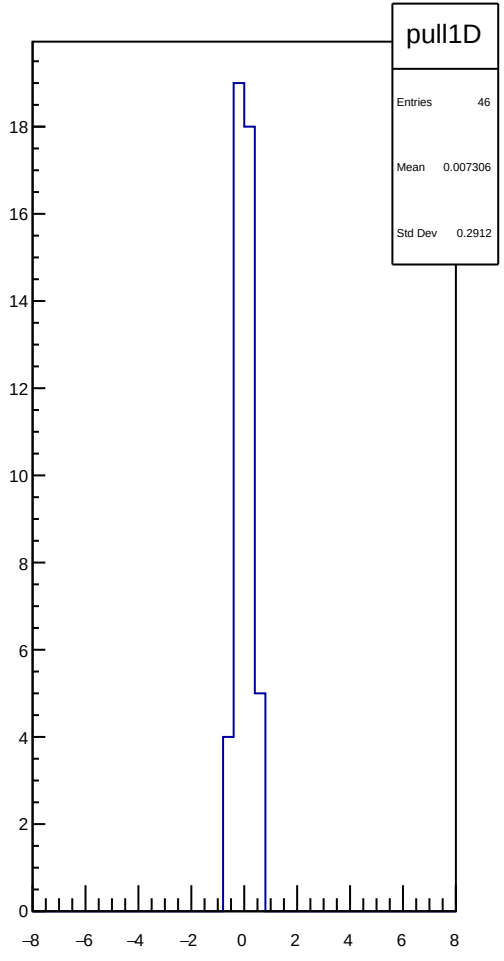

pull1D
Entries 46
Mean 0.01058
Std Dev 0.5195

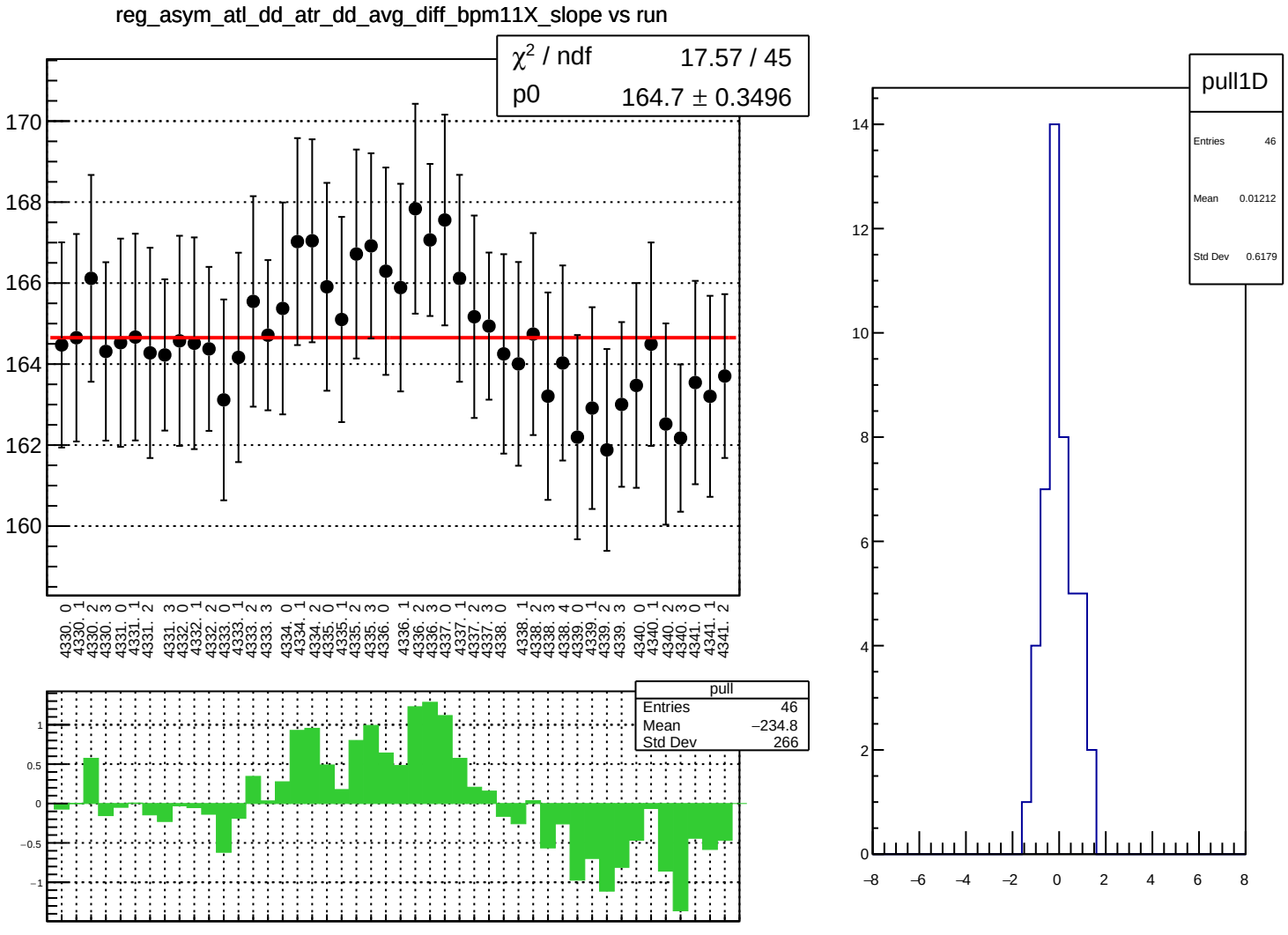

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.643 / 45
p0 43.19 ± 1.795
pull
Entries 46
Mean −99.23
Std Dev 126.2

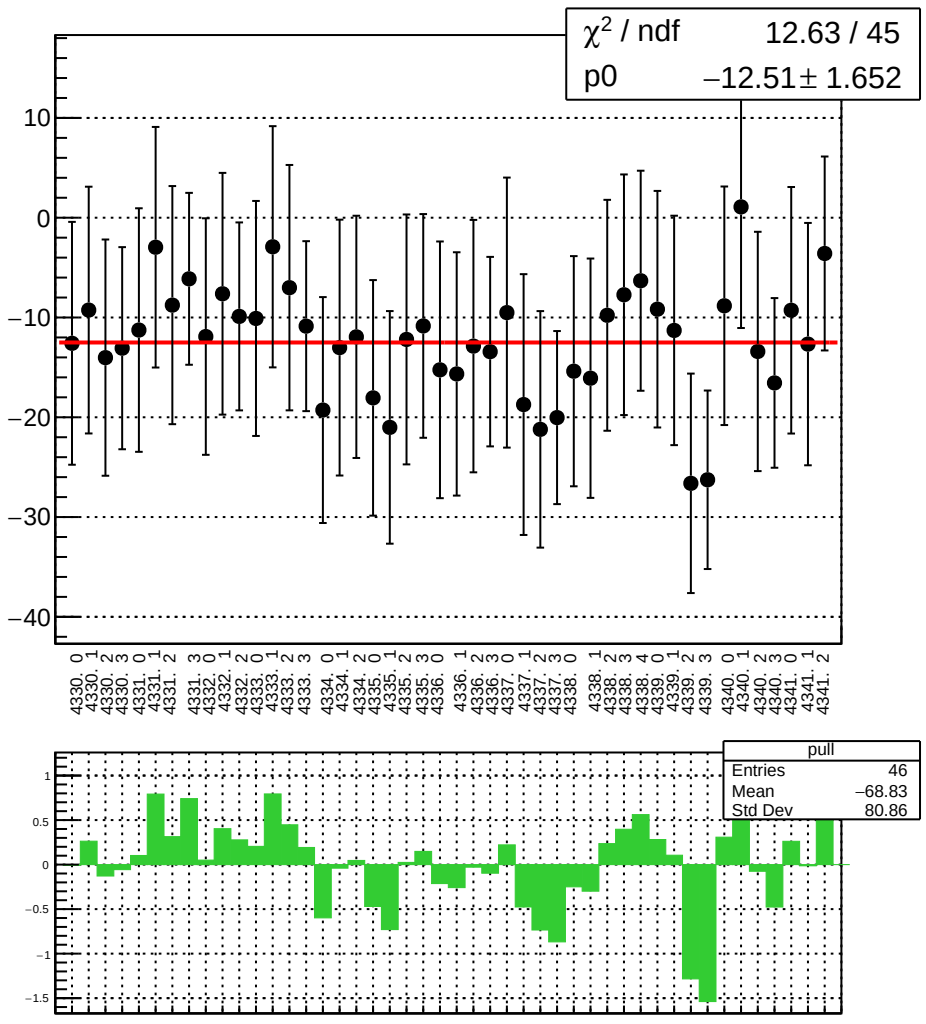

pull1D
Entries 46
Mean −0.01387
Std Dev 0.35

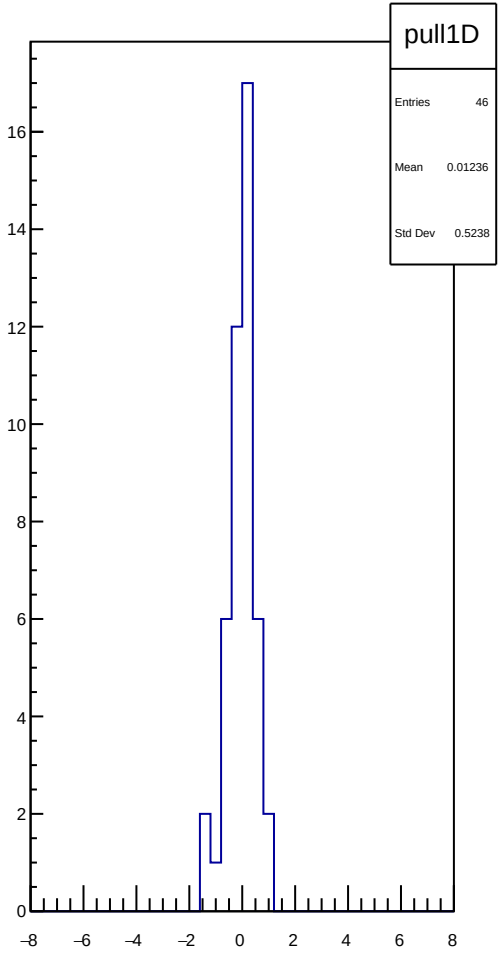

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.84 / 45
p0 60.11 ± 0.2864
pull
Entries 46
Mean −146
Std Dev 178.8
pull1D
Entries 46
Mean 0.03428
Std Dev 1.061

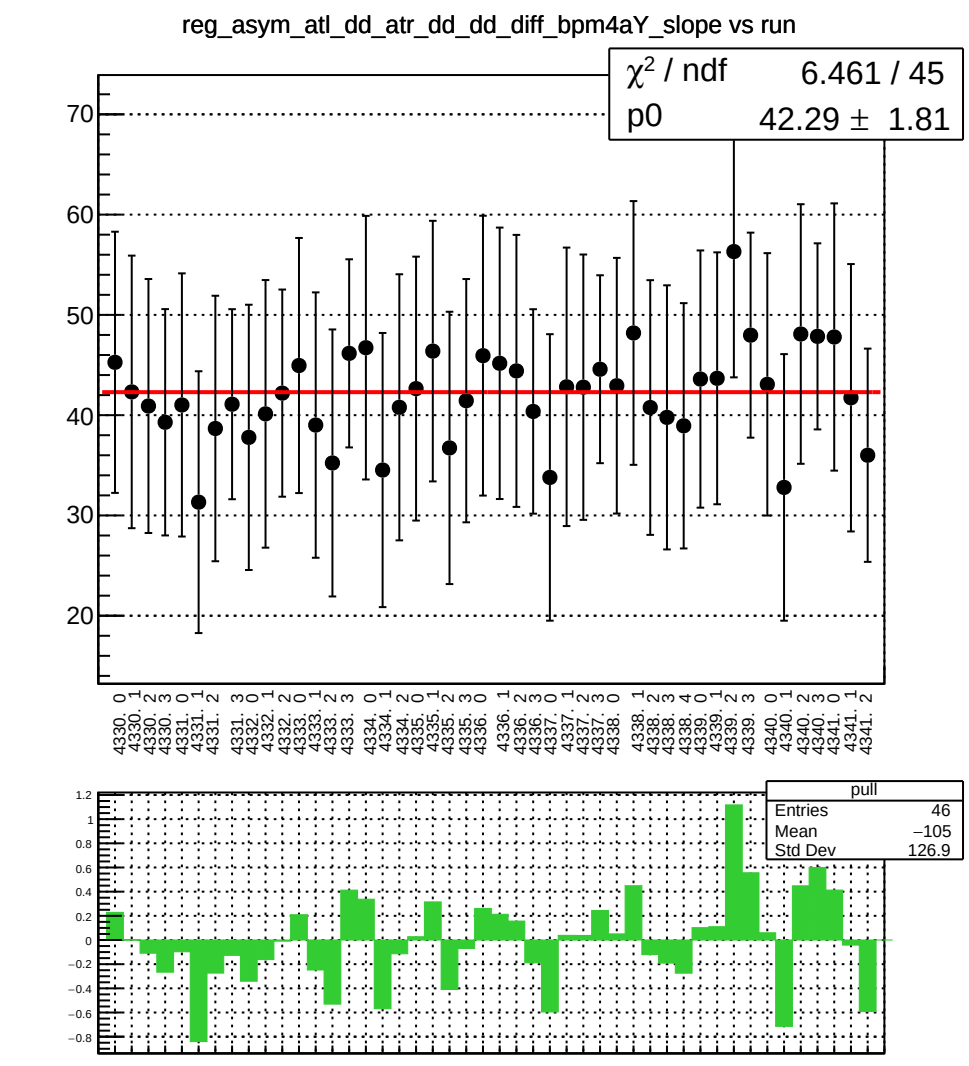

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.903 / 45
p0 −60.6 ± 1.947
pull
Entries 46
Mean −114
Std Dev 141.1

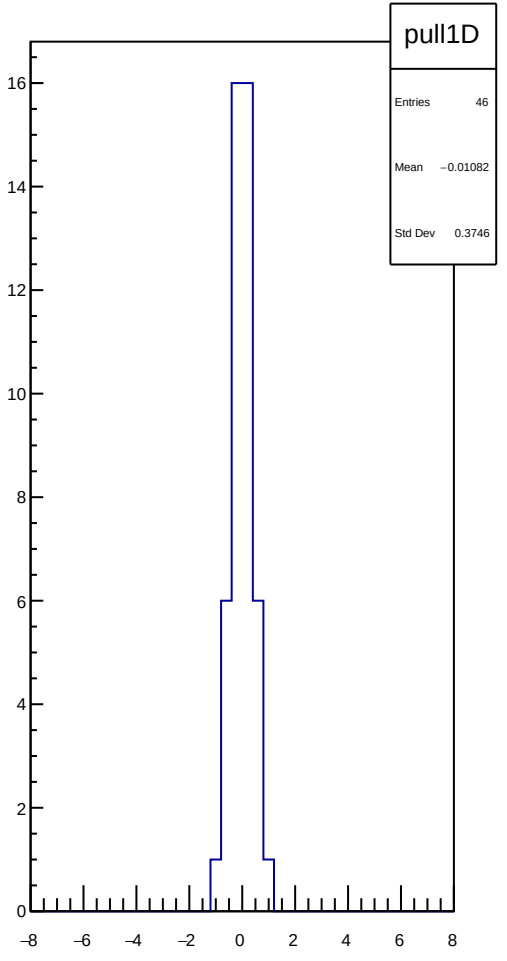

pull1D
Entries 46
Mean 0.007306
Std Dev 0.2912

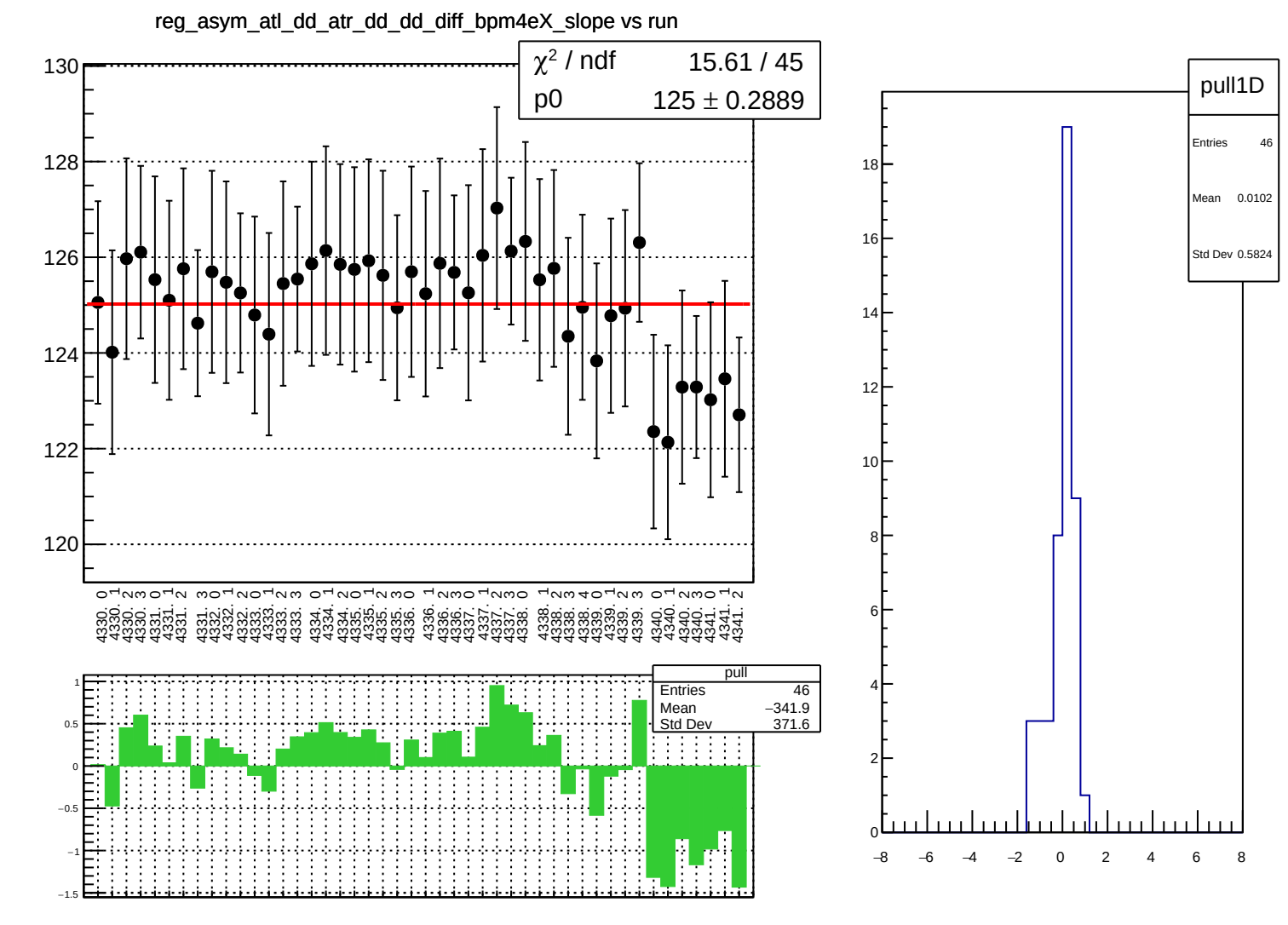

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 17.57 / 45
p0 164.7 ± 0.3496
170
168
166
164
162
160
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −234.8
Std Dev 266
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean 0.01212
Std Dev 0.6179
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

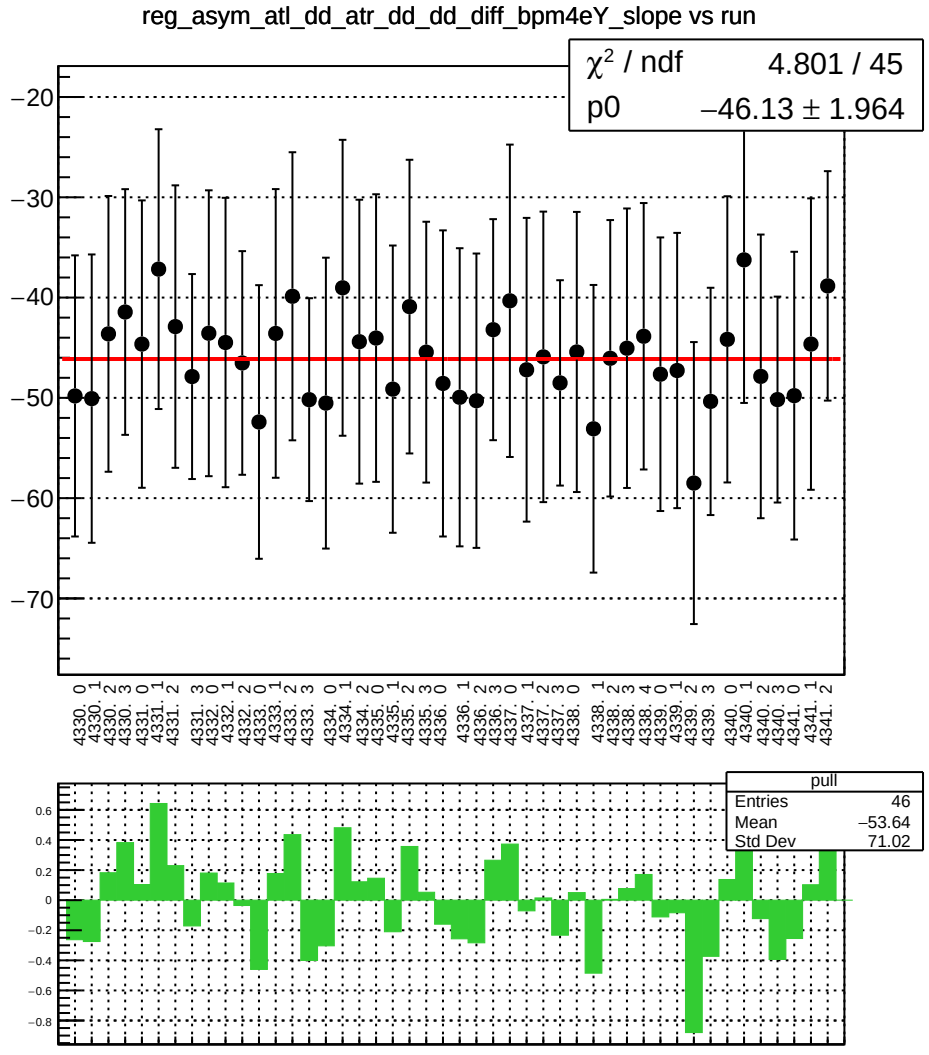

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.63 / 45
p0 −12.51± 1.652
pull
Entries 46
Mean −68.83
Std Dev 80.86

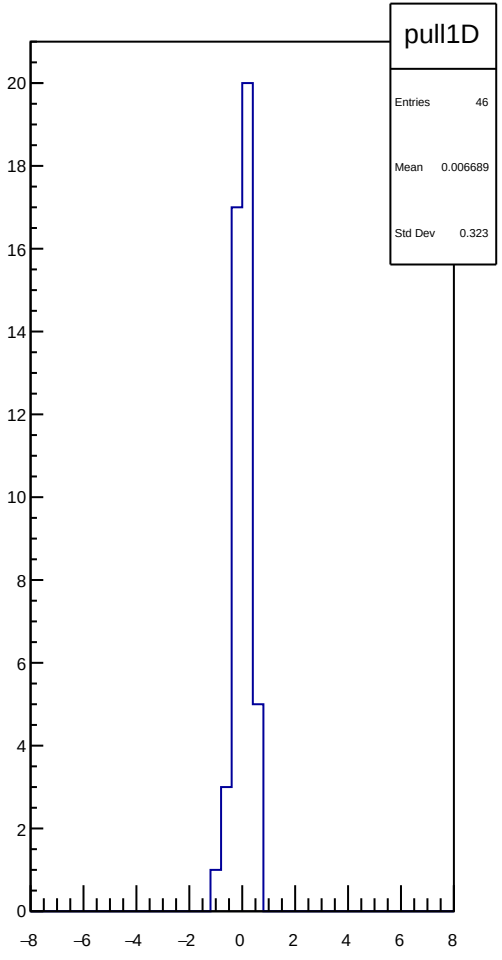

pull1D
Entries 46
Mean 0.01236
Std Dev 0.5238

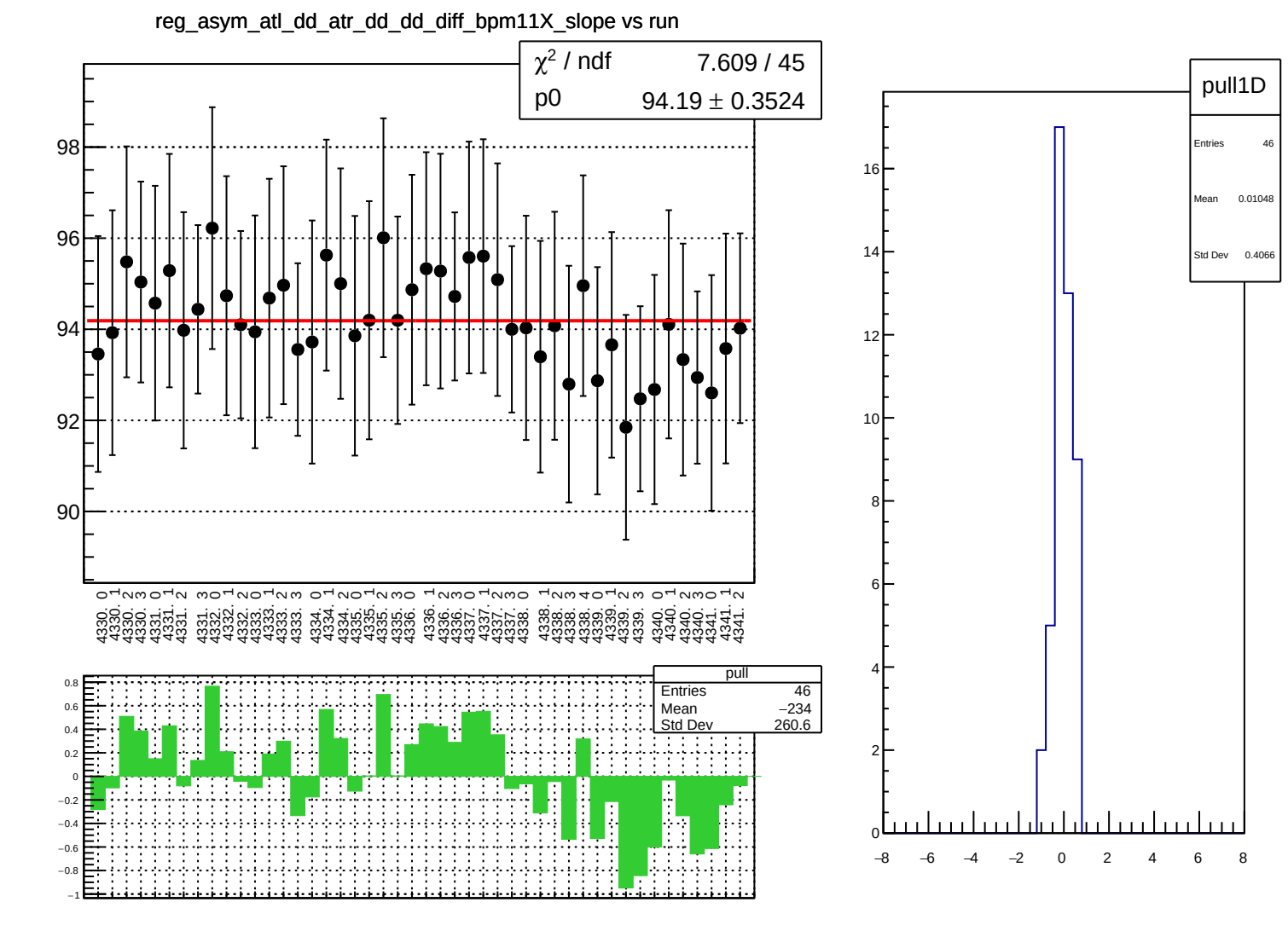

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.461 / 45
p0 42.29 ± 1.81
pull
Entries 46
Mean −105
Std Dev 126.9

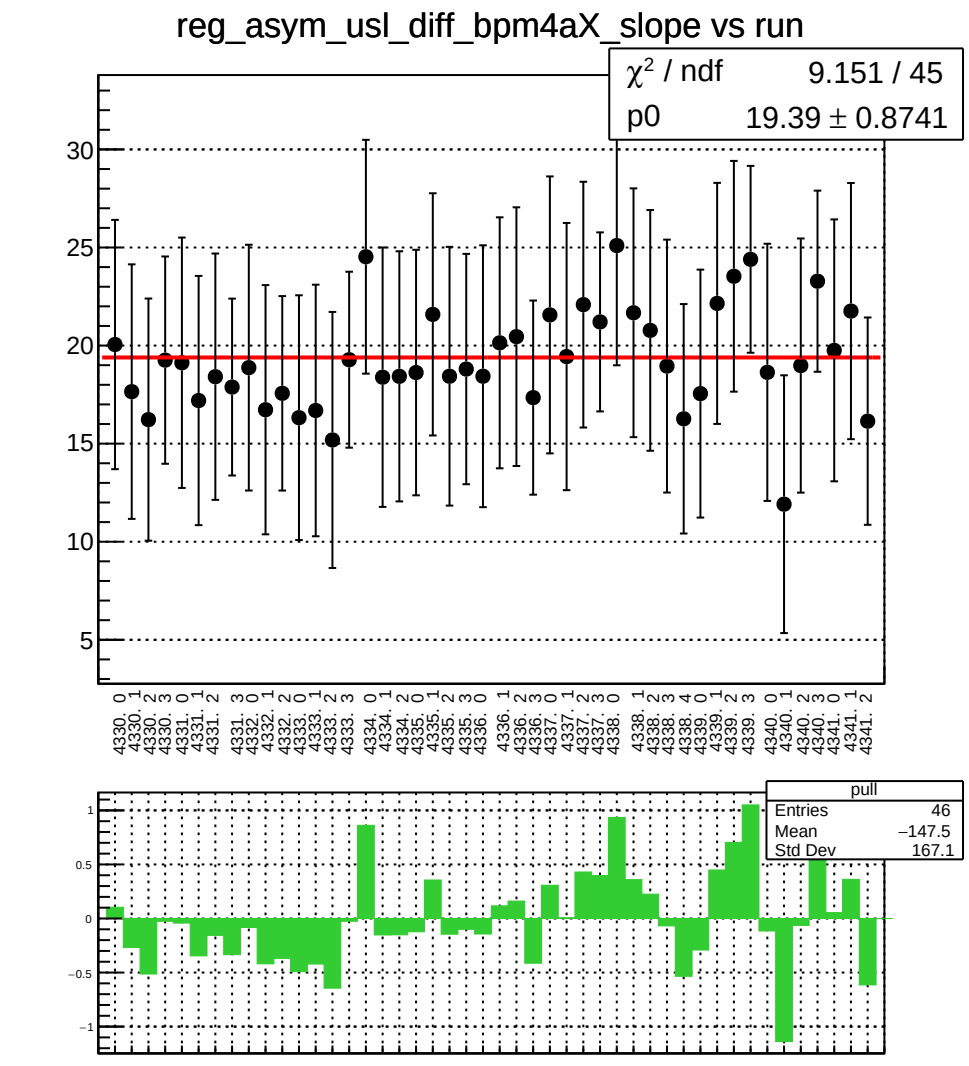

pull1D
Entries 46
Mean −0.01082
Std Dev 0.3746

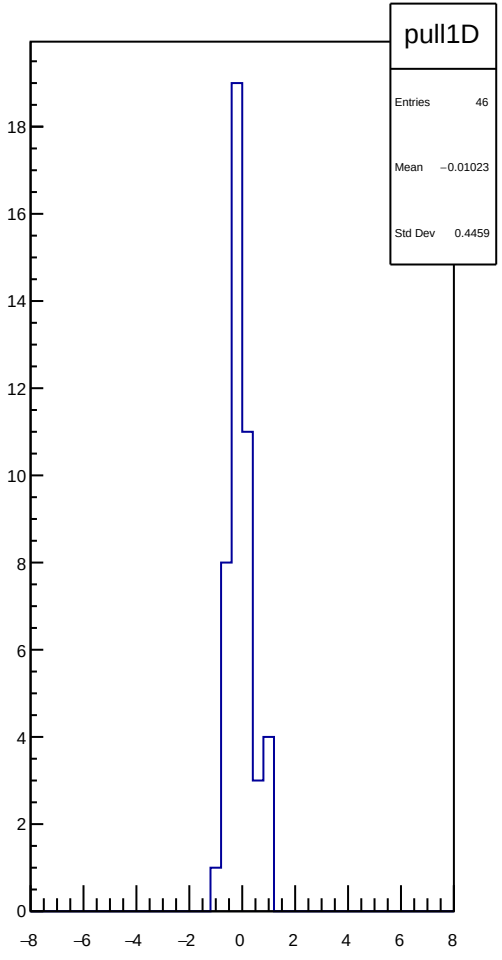

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.61 / 45
p0 125 ± 0.2889
130
128
126
124
122
120
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −341.9
Std Dev 371.6
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean 0.0102
Std Dev 0.5824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

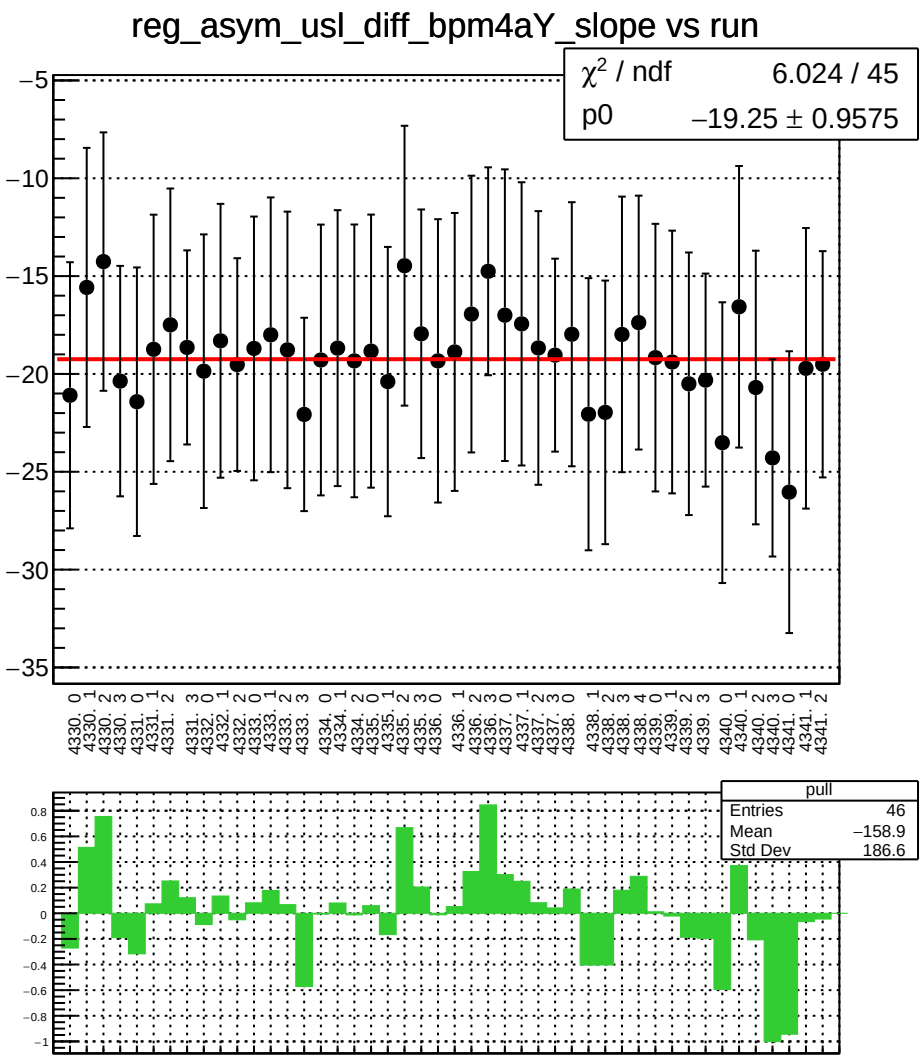

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.801 / 45
p0 −46.13 ± 1.964
pull
Entries 46
Mean −53.64
Std Dev 71.02

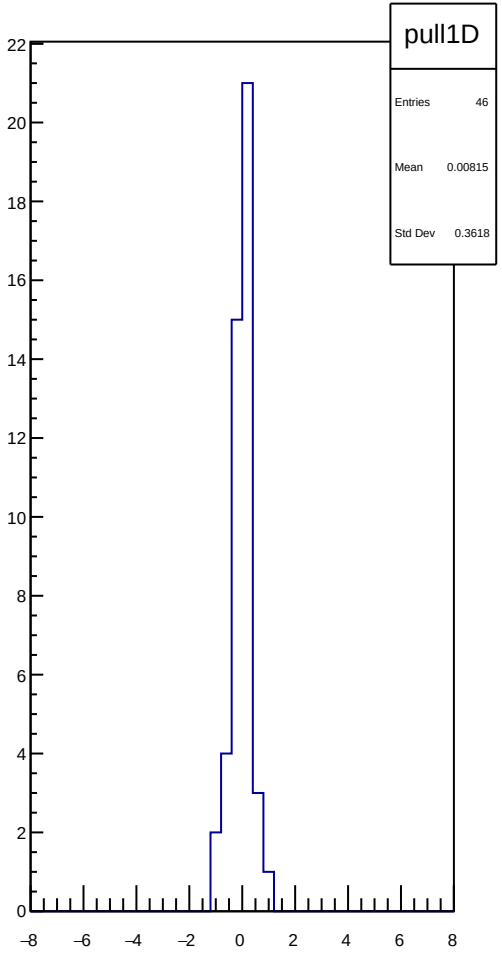

pull1D
Entries 46
Mean 0.006689
Std Dev 0.323

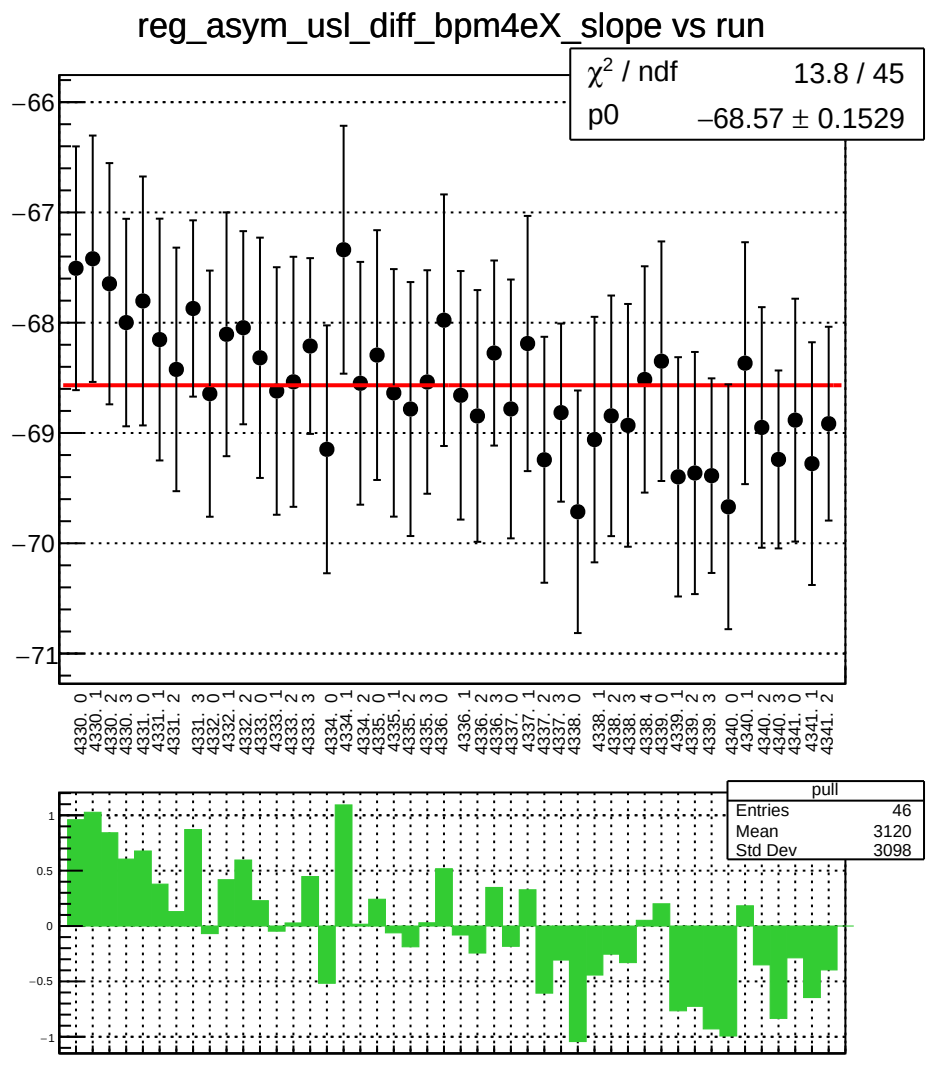

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 7.609 / 45
p0 94.19 ± 0.3524
98
96
94
92
90
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −234
Std Dev 260.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean 0.01048
Std Dev 0.4066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

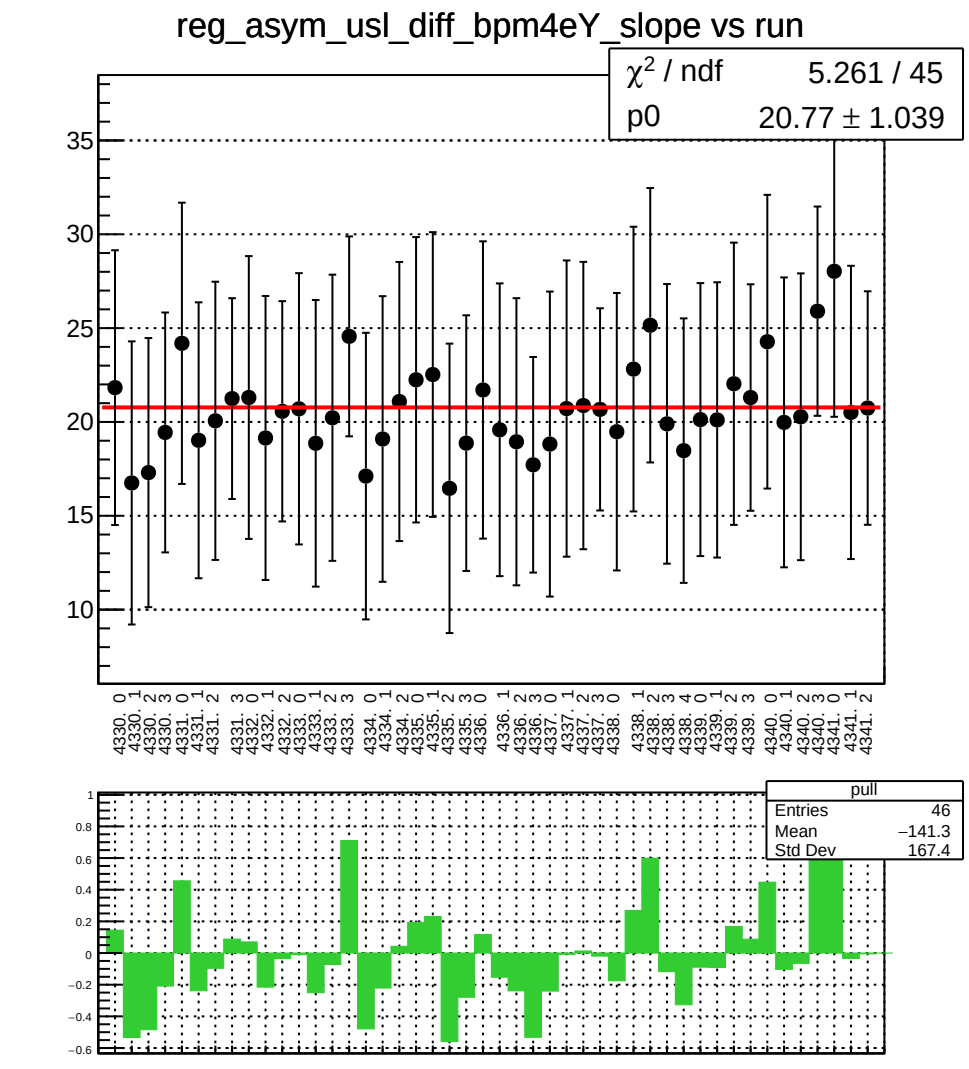

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 9.151 / 45
p0 19.39 ± 0.8741
pull
Entries 46
Mean −147.5
Std Dev 167.1

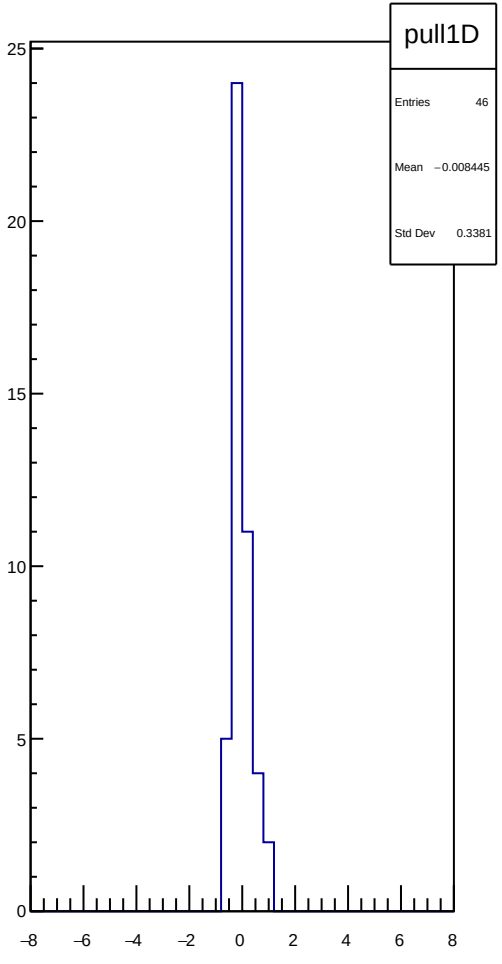

pull1D
Entries 46
Mean −0.01023
Std Dev 0.4459

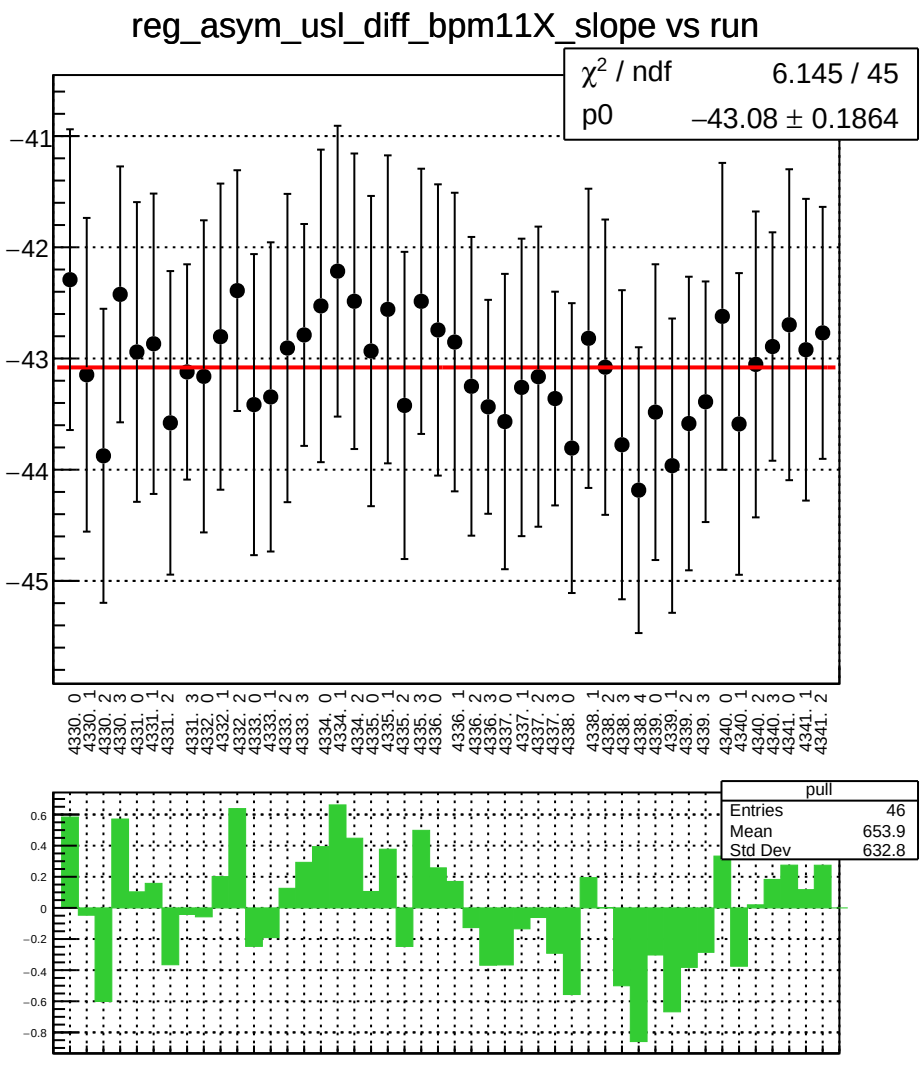

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 6.024 / 45
p0 −19.25 ± 0.9575
pull
Entries 46
Mean −158.9
Std Dev 186.6

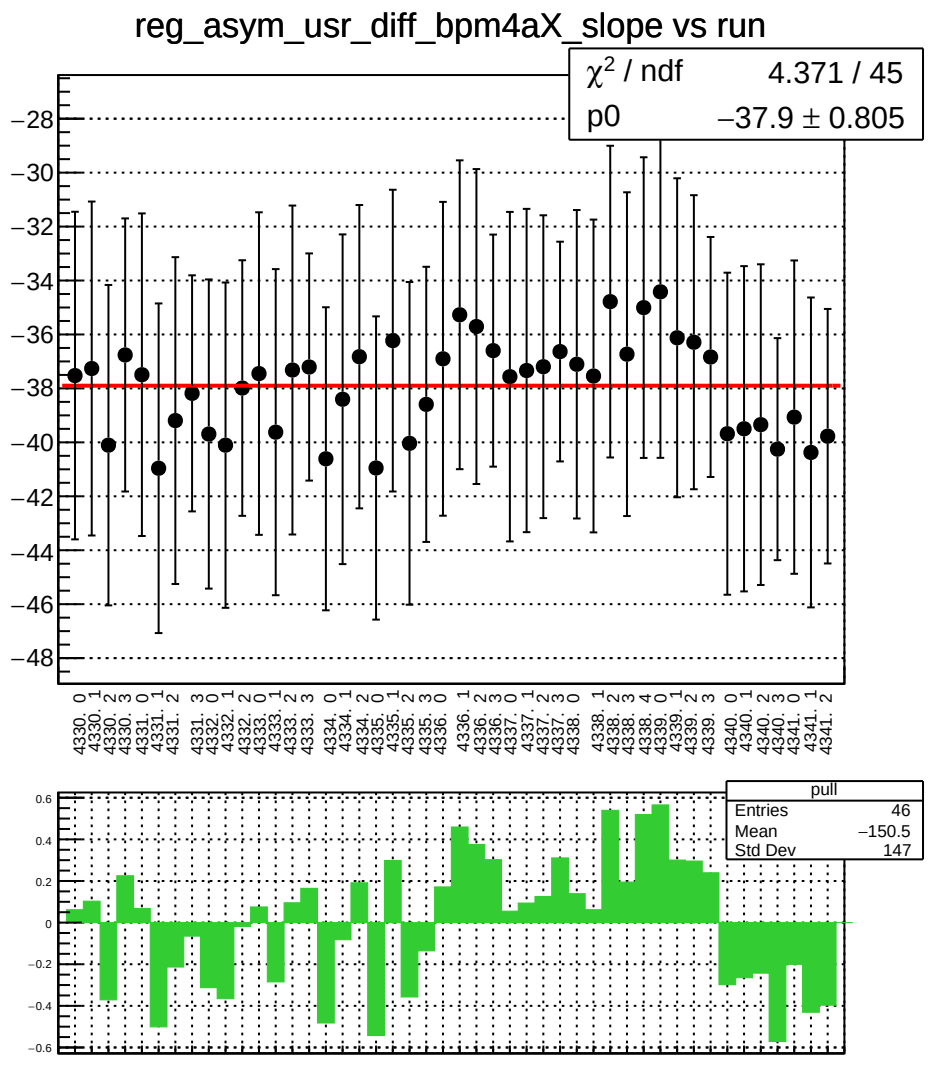

pull1D
Entries 46
Mean 0.00815
Std Dev 0.3618

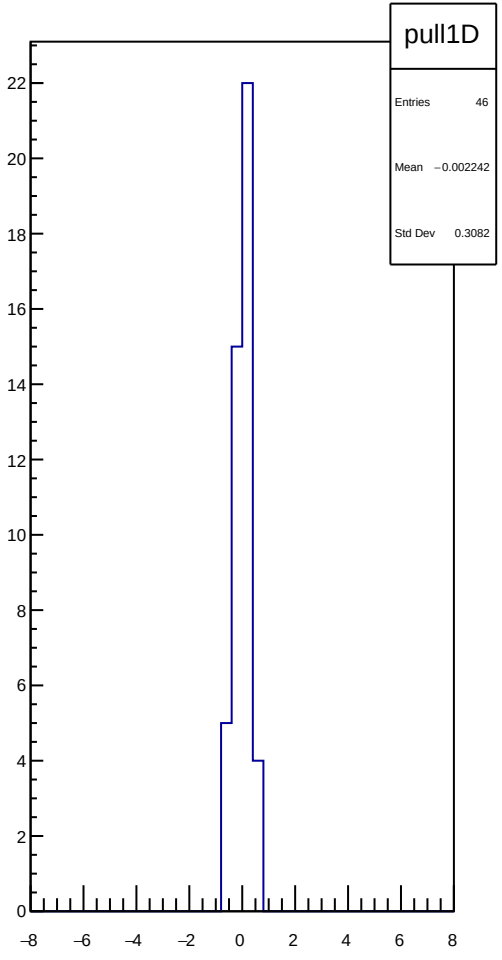

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 13.8 / 45
p0 −68.57 ± 0.1529
−66
−67
−68
−69
−70
−71
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 3120
Std Dev 3098
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.001742
Std Dev 0.5478
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

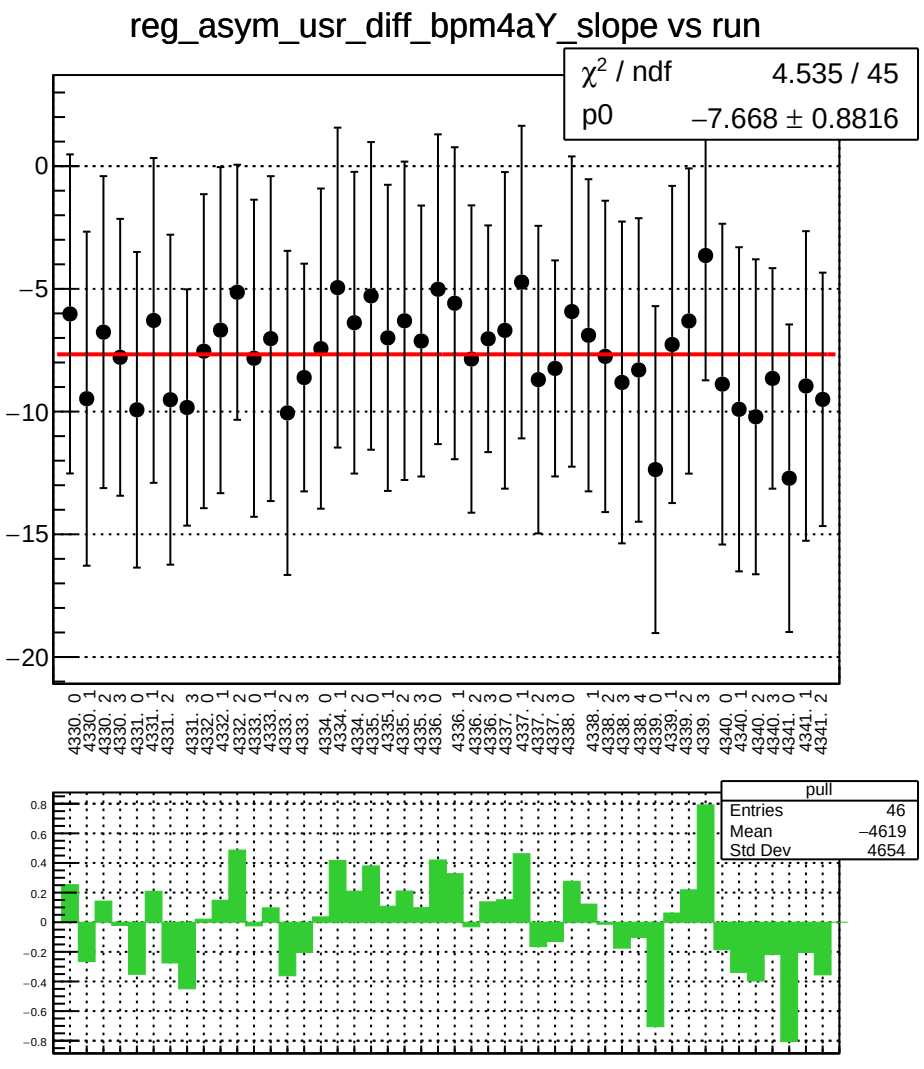

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 5.261 / 45
p0 20.77 ± 1.039
pull
Entries 46
Mean −141.3
Std Dev 167.4

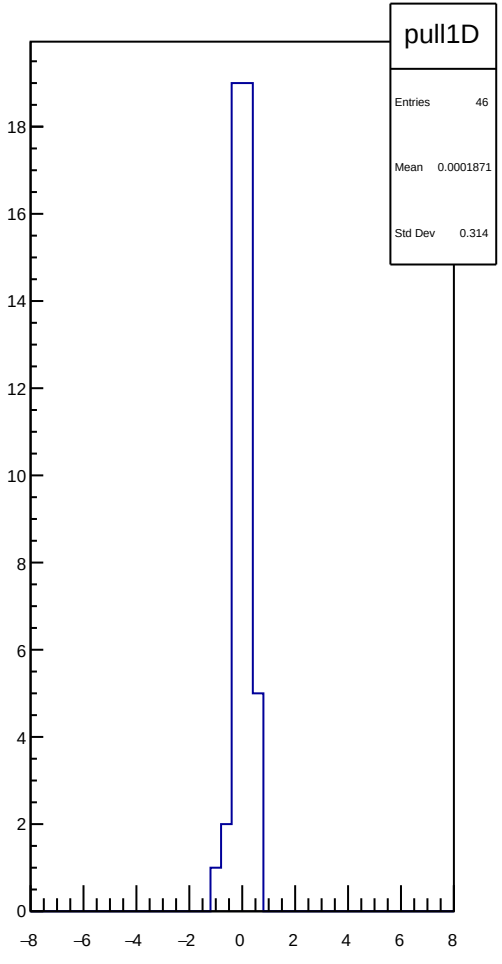

pull1D
Entries 46
Mean −0.008445
Std Dev 0.3381

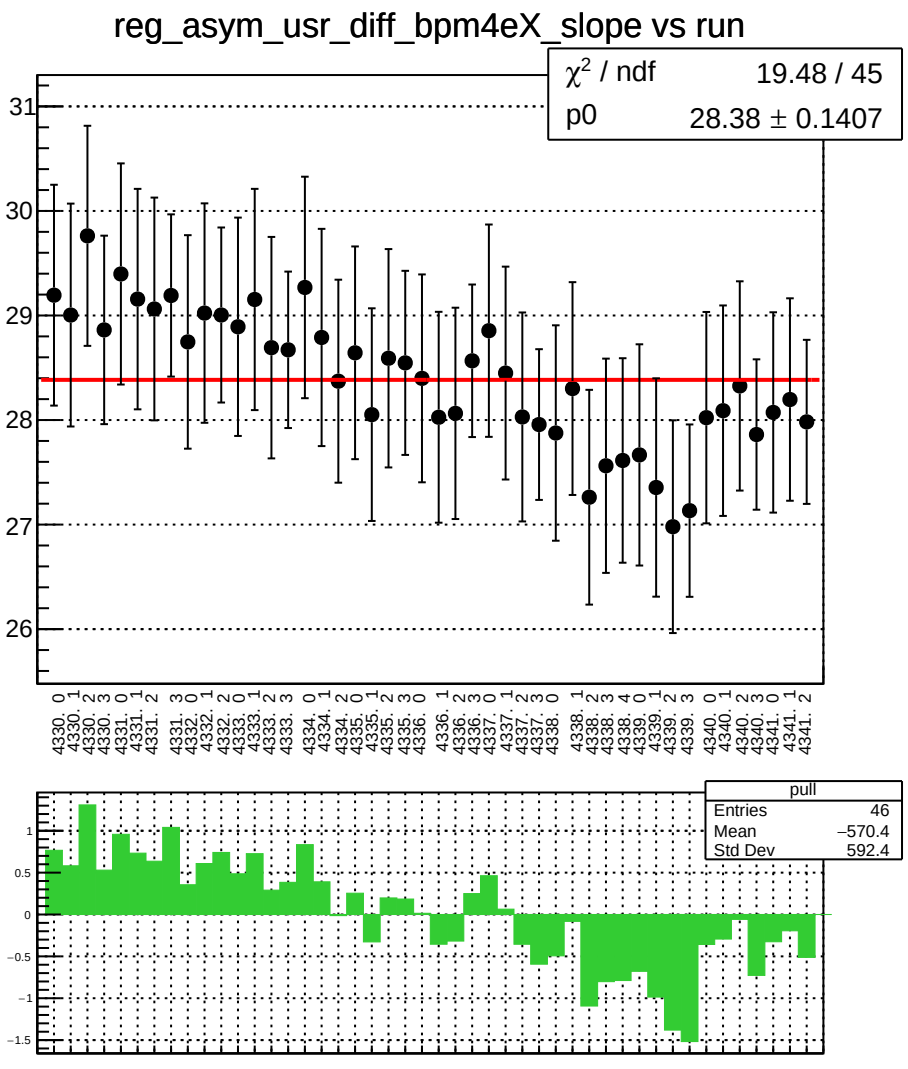

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 6.145 / 45
p0 −43.08 ± 0.1864
−41
−42
−43
−44
−45
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 653.9
Std Dev 632.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.001989
Std Dev 0.3655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

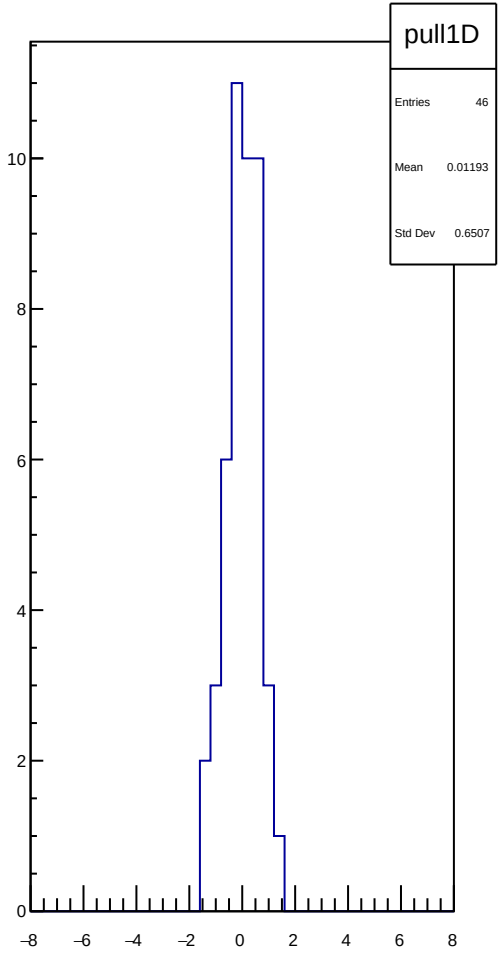

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 4.371 / 45
p0 −37.9 ± 0.805
pull
Entries 46
Mean −150.5
Std Dev 147

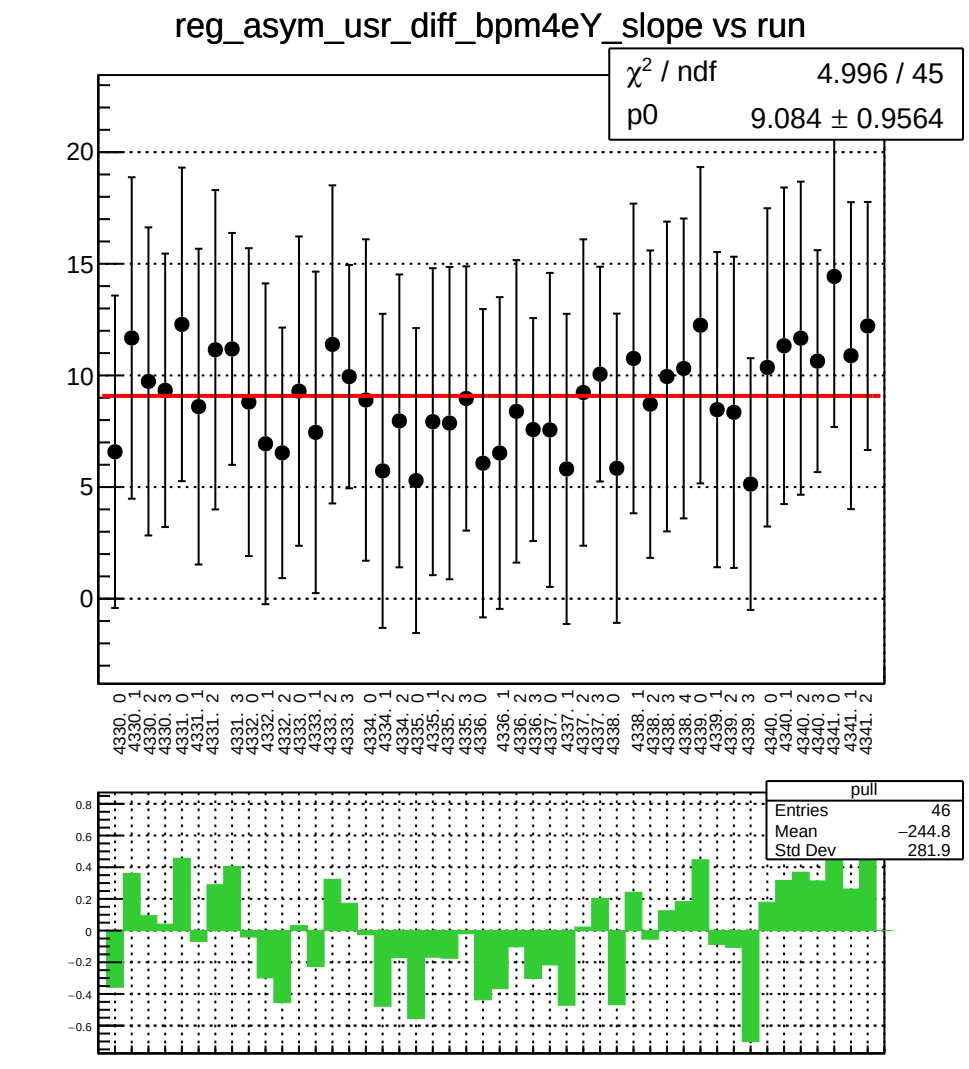

pull1D
Entries 46
Mean −0.002242
Std Dev 0.3082

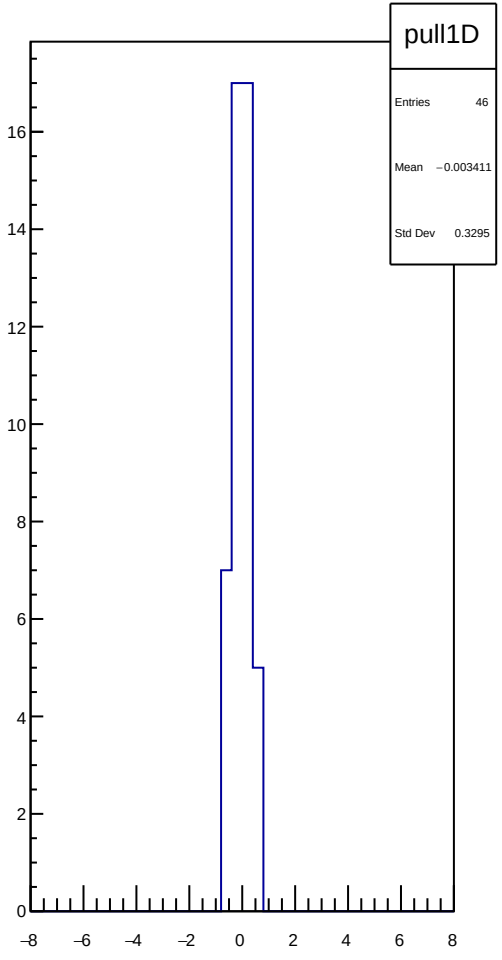

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.535 / 45
p0 −7.668 ± 0.8816
pull
Entries 46
Mean −4619
Std Dev 4654

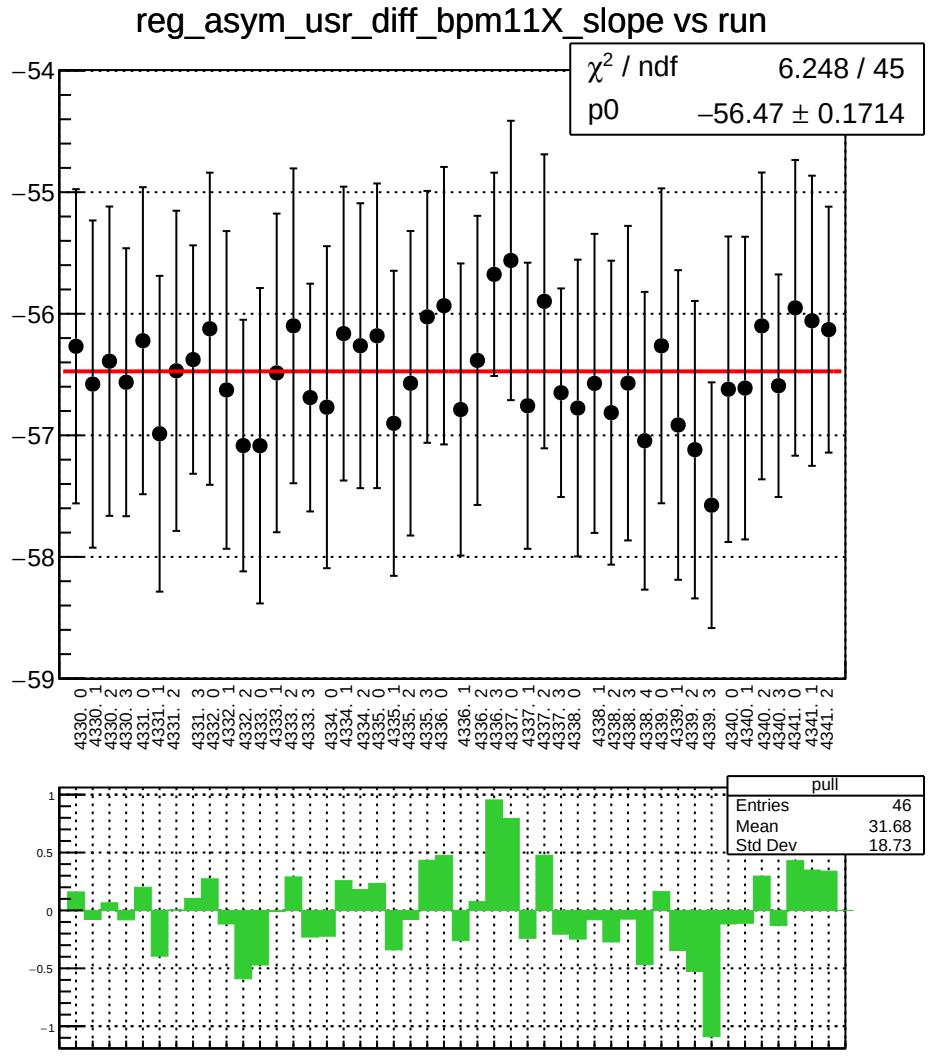

pull1D
Entries 46
Mean 0.0001871
Std Dev 0.314

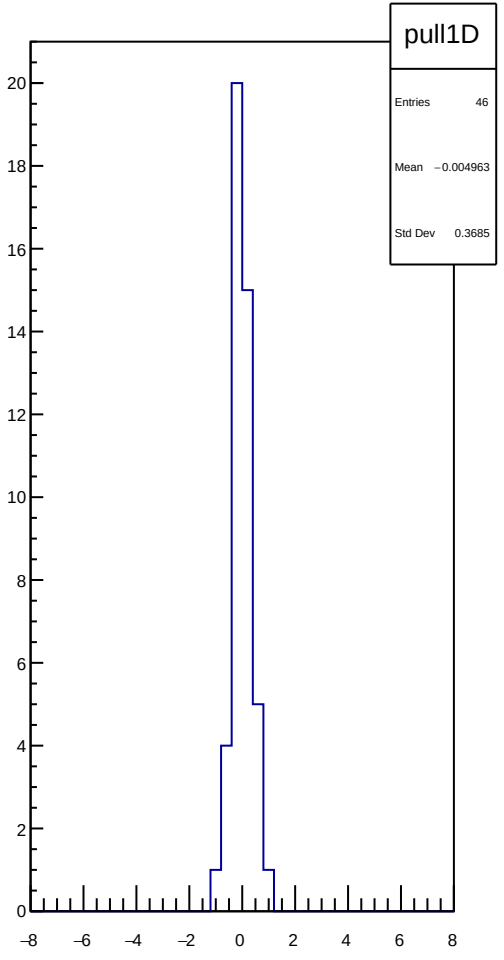

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 19.48 / 45
p0 28.38 ± 0.1407
pull
Entries 46
Mean −570.4
Std Dev 592.4

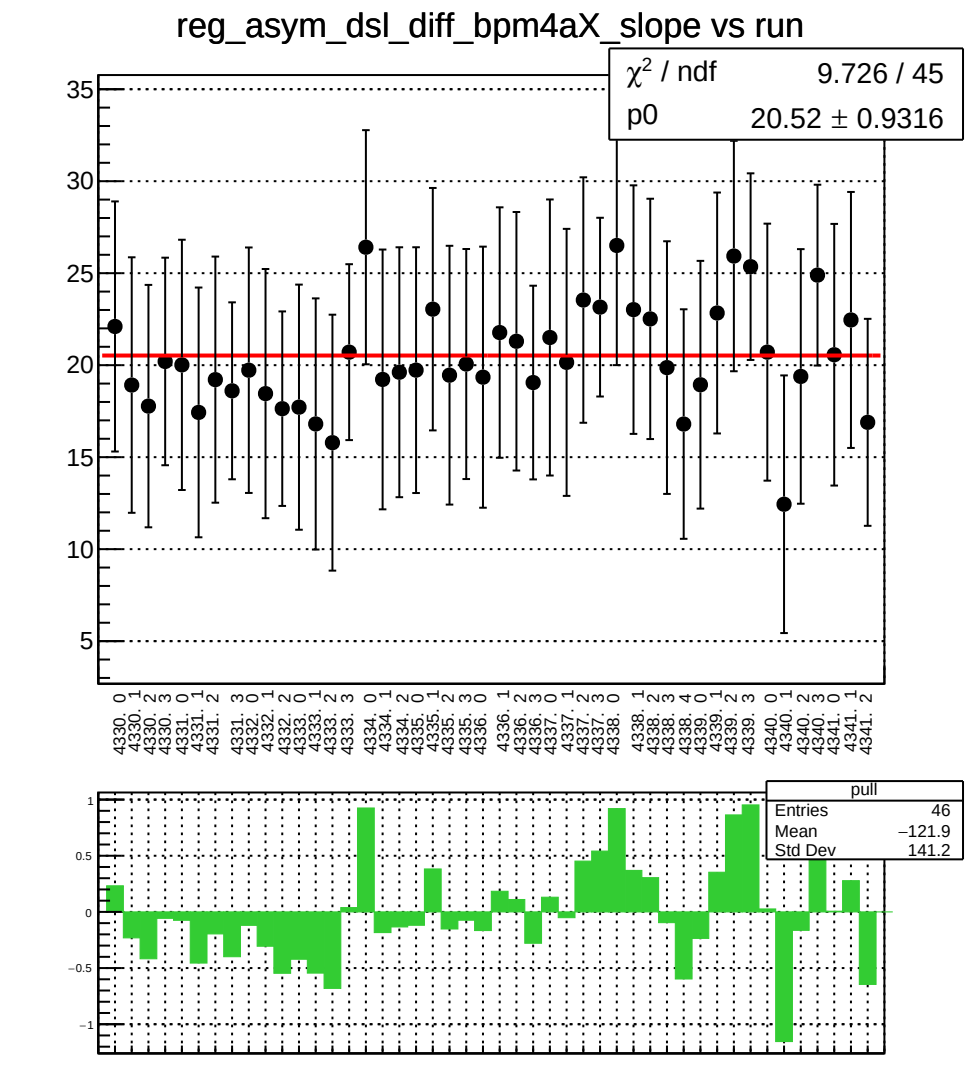

pull1D
Entries 46
Mean 0.01193
Std Dev 0.6507

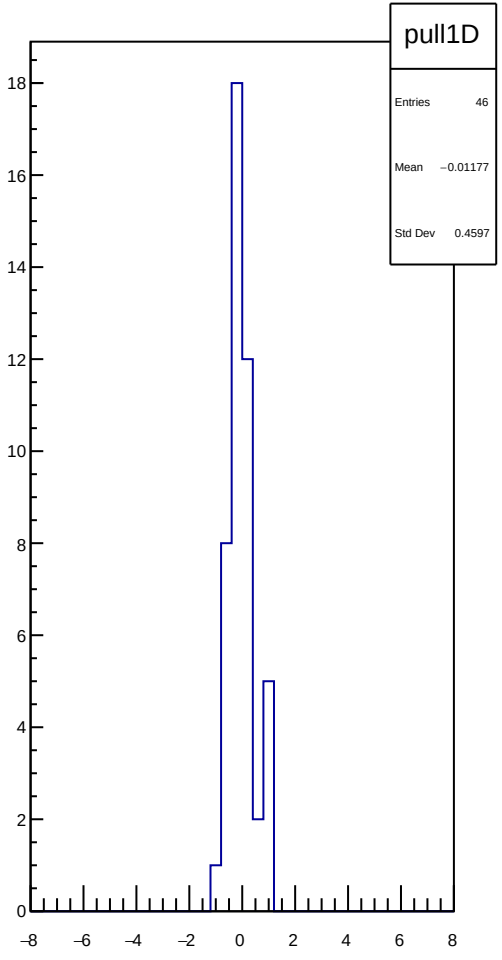

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.996 / 45
p0 9.084 ± 0.9564
pull
Entries 46
Mean −244.8
Std Dev 281.9

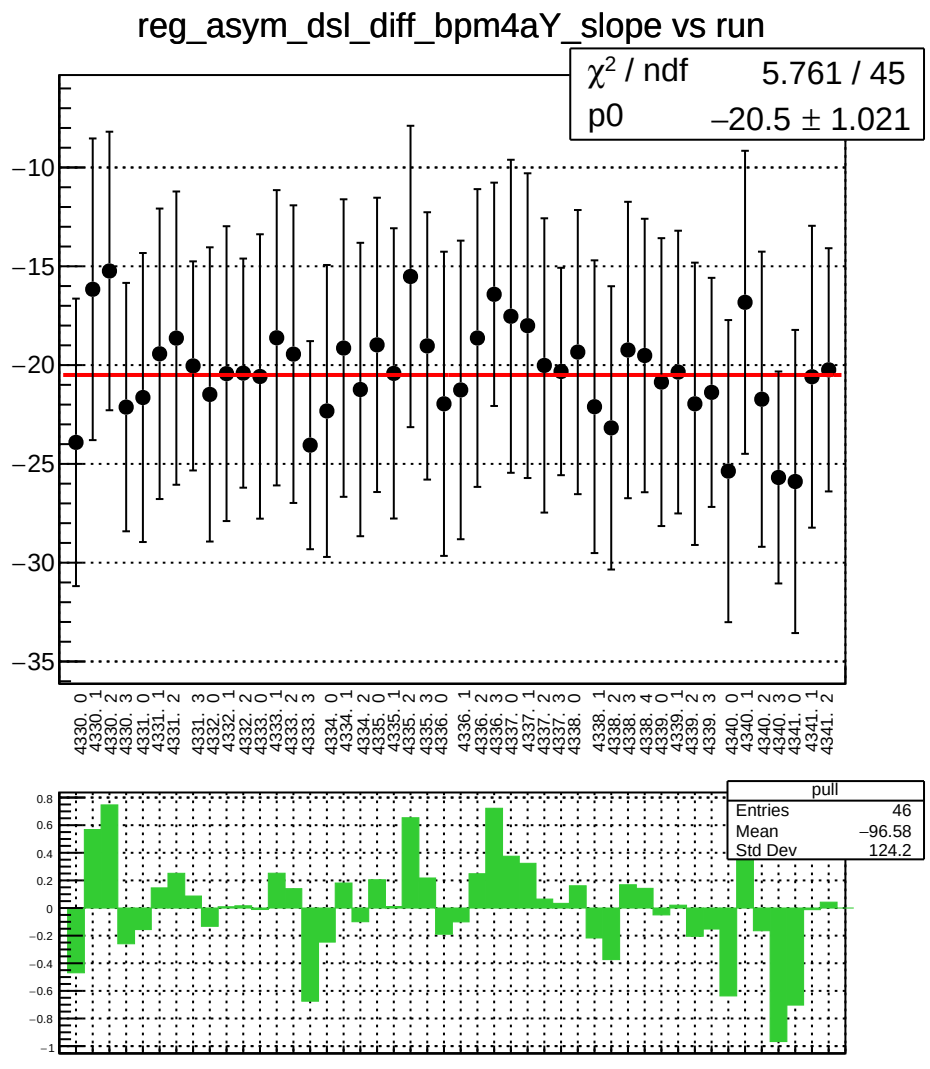

pull1D
Entries 46
Mean −0.003411
Std Dev 0.3295

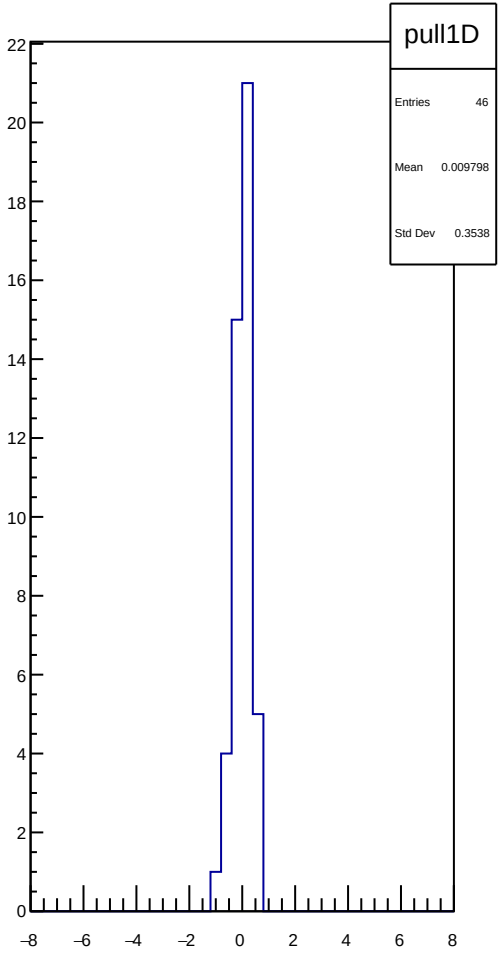

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 6.248 / 45
p0 −56.47 ± 0.1714
pull
Entries 46
Mean 31.68
Std Dev 18.73

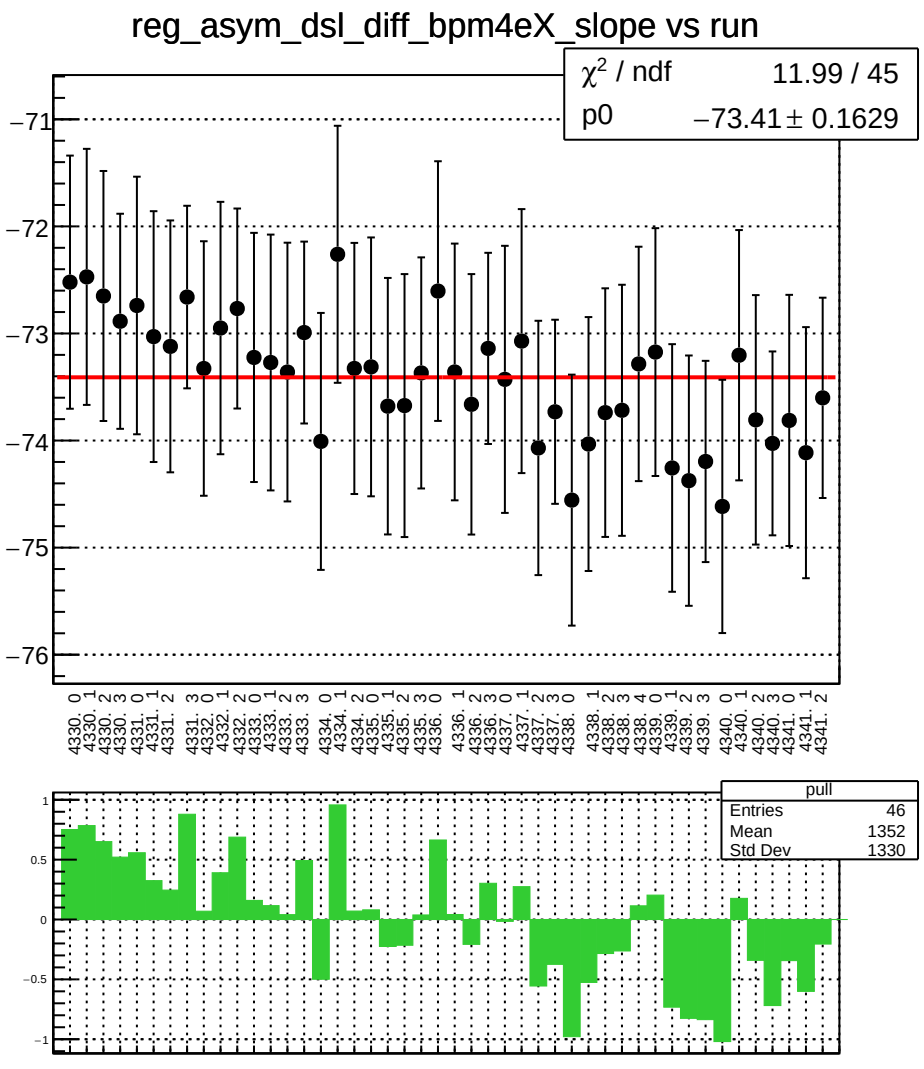

pull1D
Entries 46
Mean −0.004963
Std Dev 0.3685

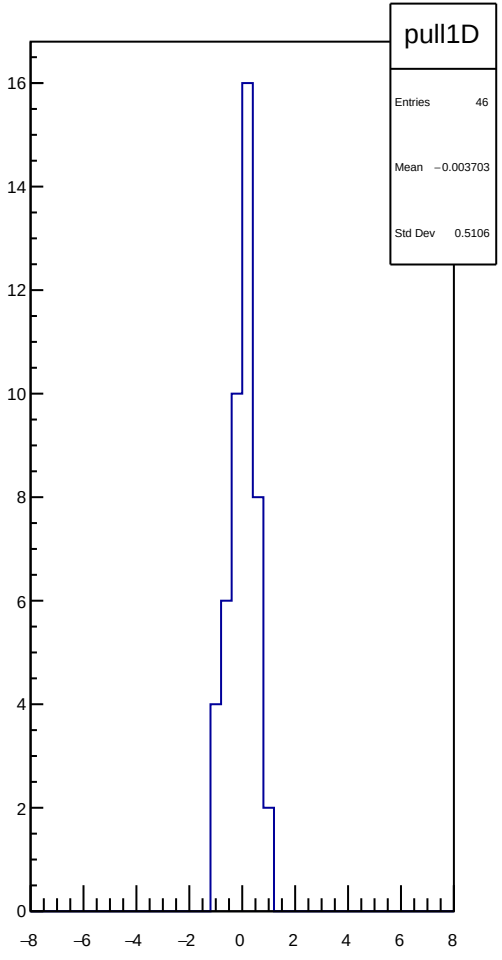

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 9.726 / 45
p0 20.52 ± 0.9316
pull
Entries 46
Mean −121.9
Std Dev 141.2

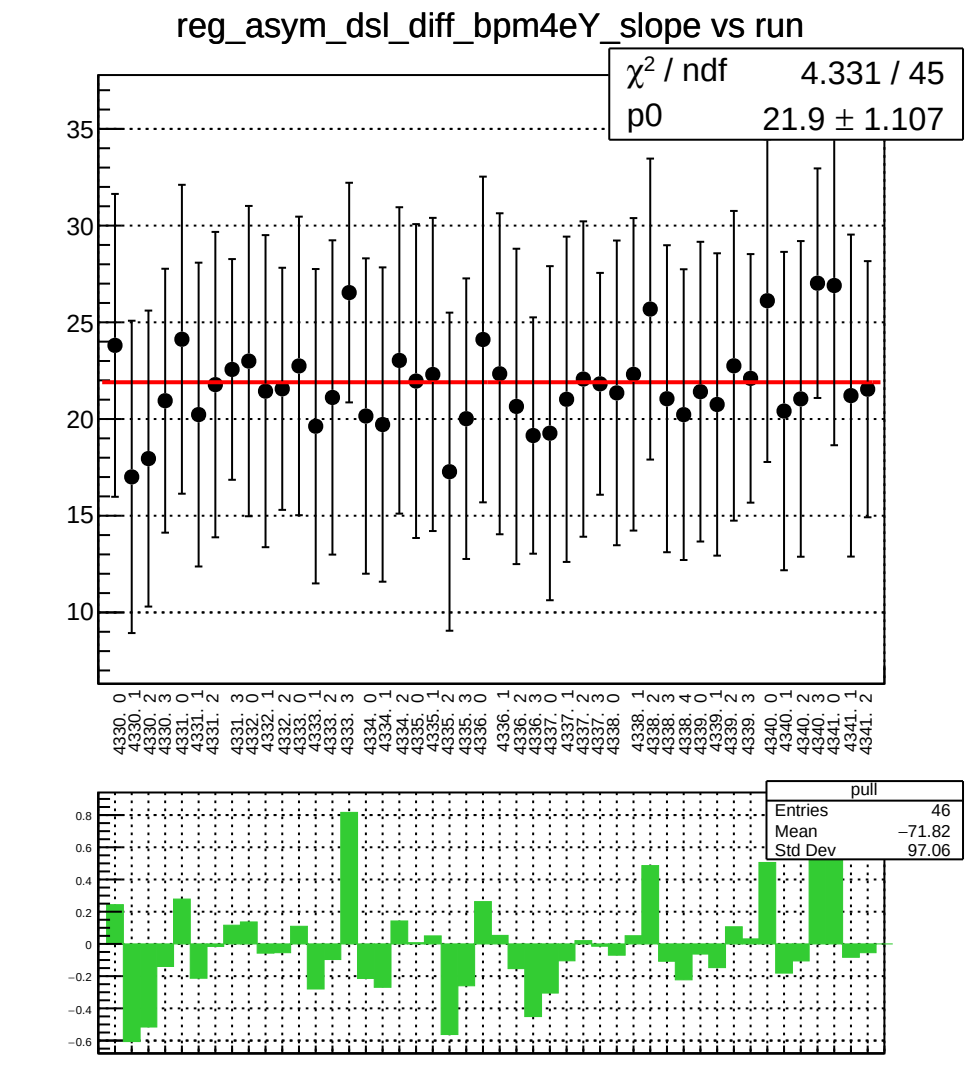

pull1D
Entries 46
Mean −0.01177
Std Dev 0.4597

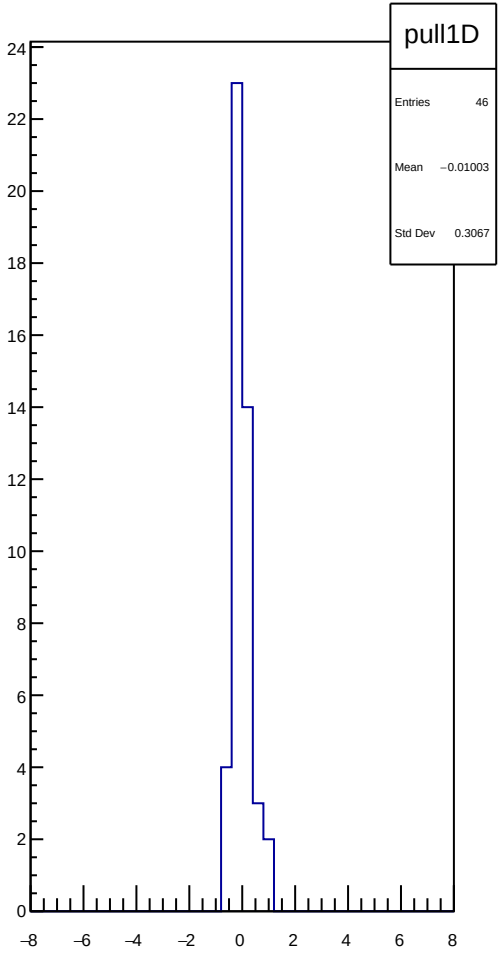

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 5.761 / 45
p0 −20.5 ± 1.021
pull
Entries 46
Mean −96.58
Std Dev 124.2

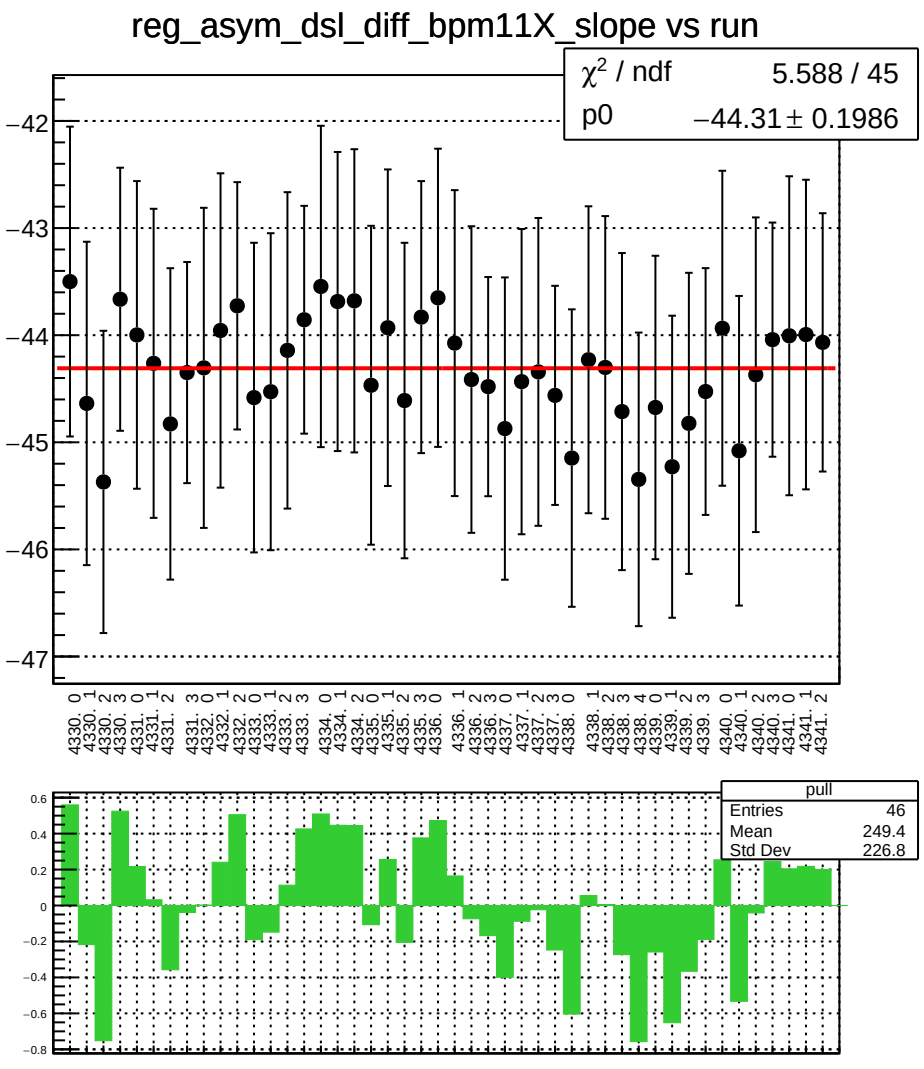

pull1D
Entries 46
Mean 0.009798
Std Dev 0.3538

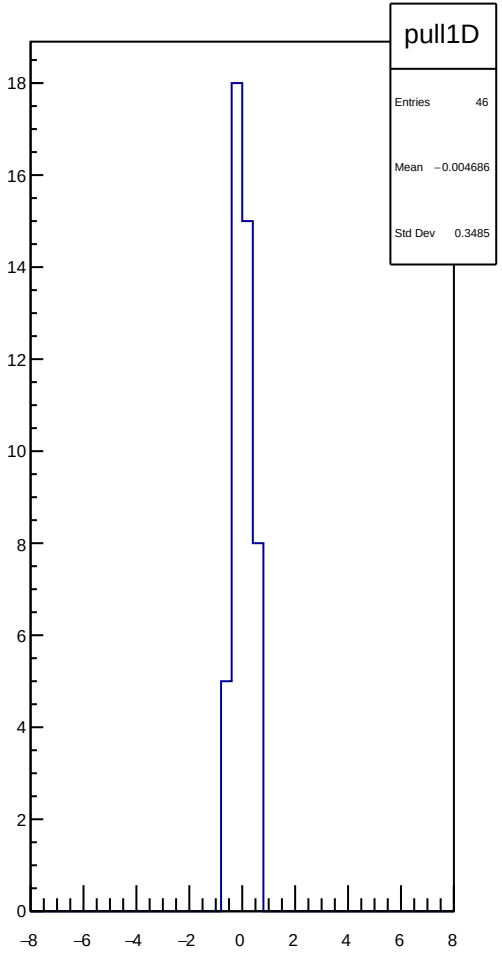

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 11.99 / 45
p0 −73.41 ± 0.1629
−71
−72
−73
−74
−75
−76
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 1352
Std Dev 1330
1
0.5
0
−0.5
−1

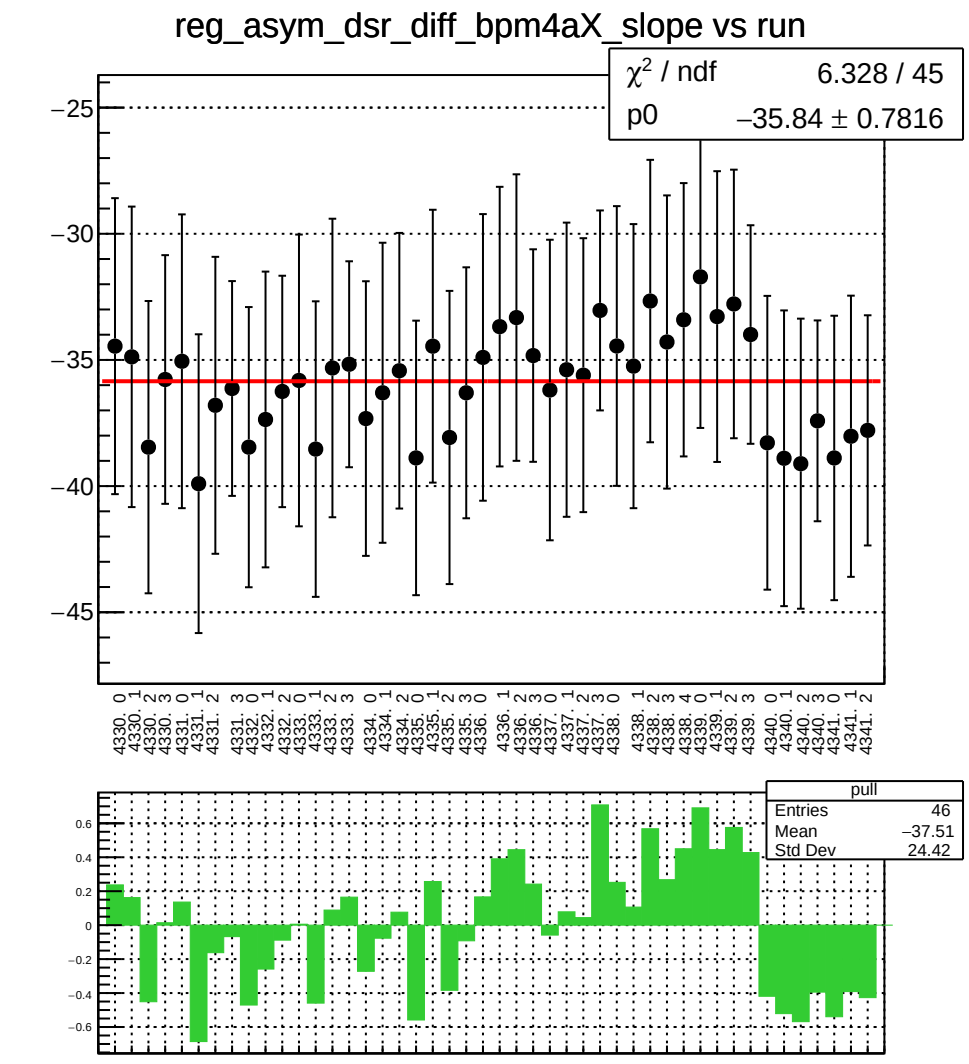

pull1D
Entries 46
Mean −0.003703
Std Dev 0.5106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

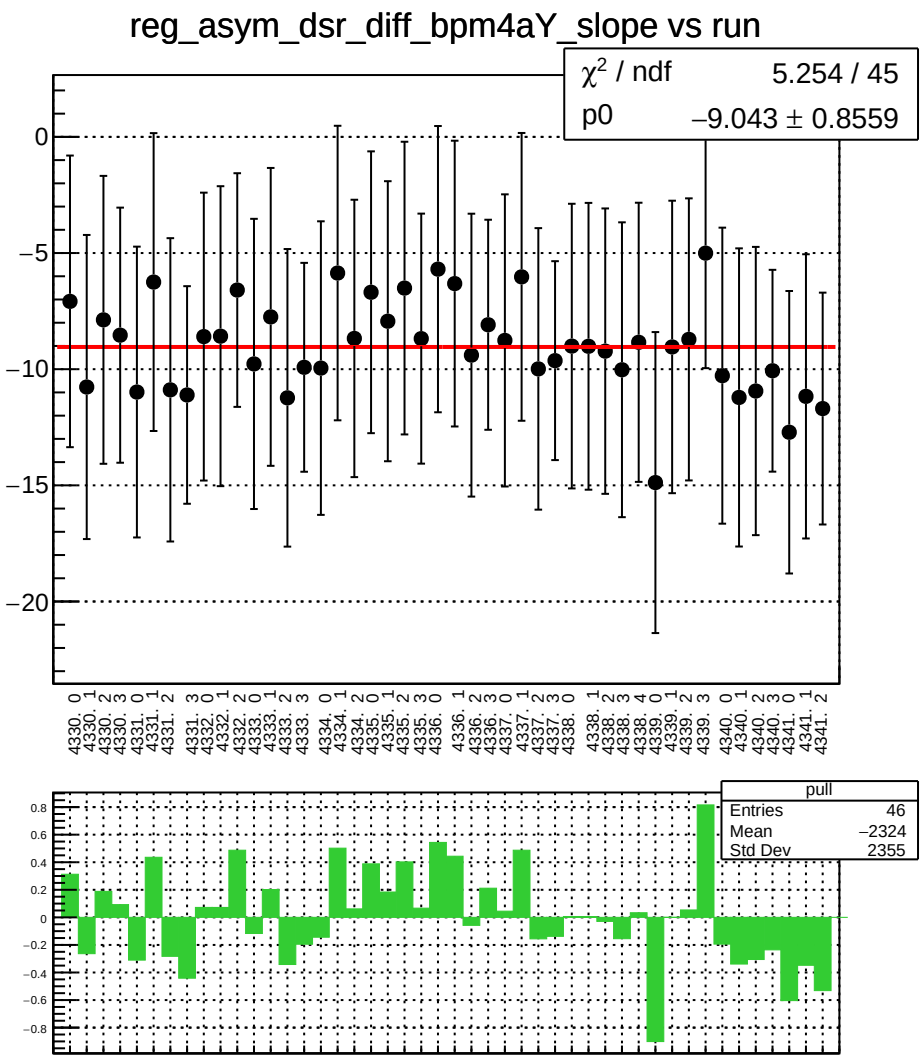

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 4.331 / 45
p0 21.9 ± 1.107
pull
Entries 46
Mean −71.82
Std Dev 97.06

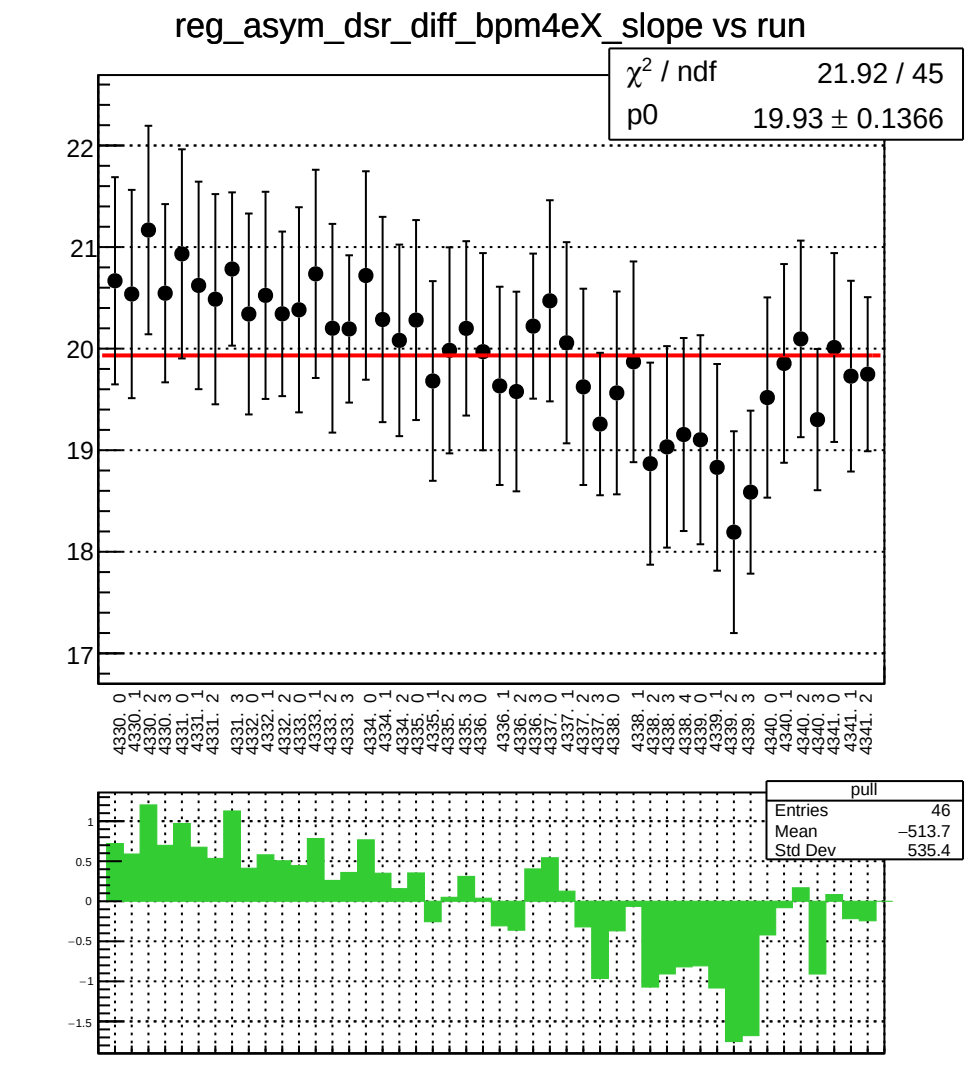

pull1D
Entries 46
Mean −0.01003
Std Dev 0.3067

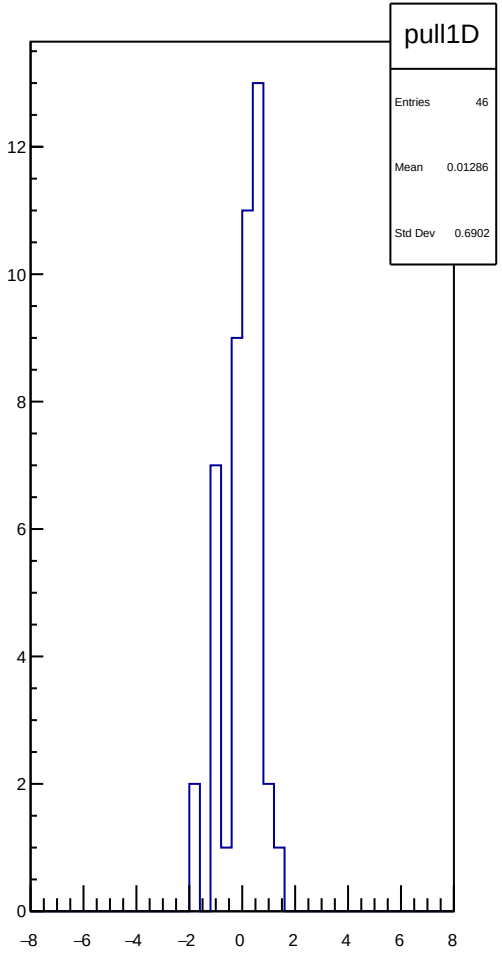

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 5.588 / 45
p0 −44.31 ± 0.1986
pull
Entries 46
Mean 249.4
Std Dev 226.8

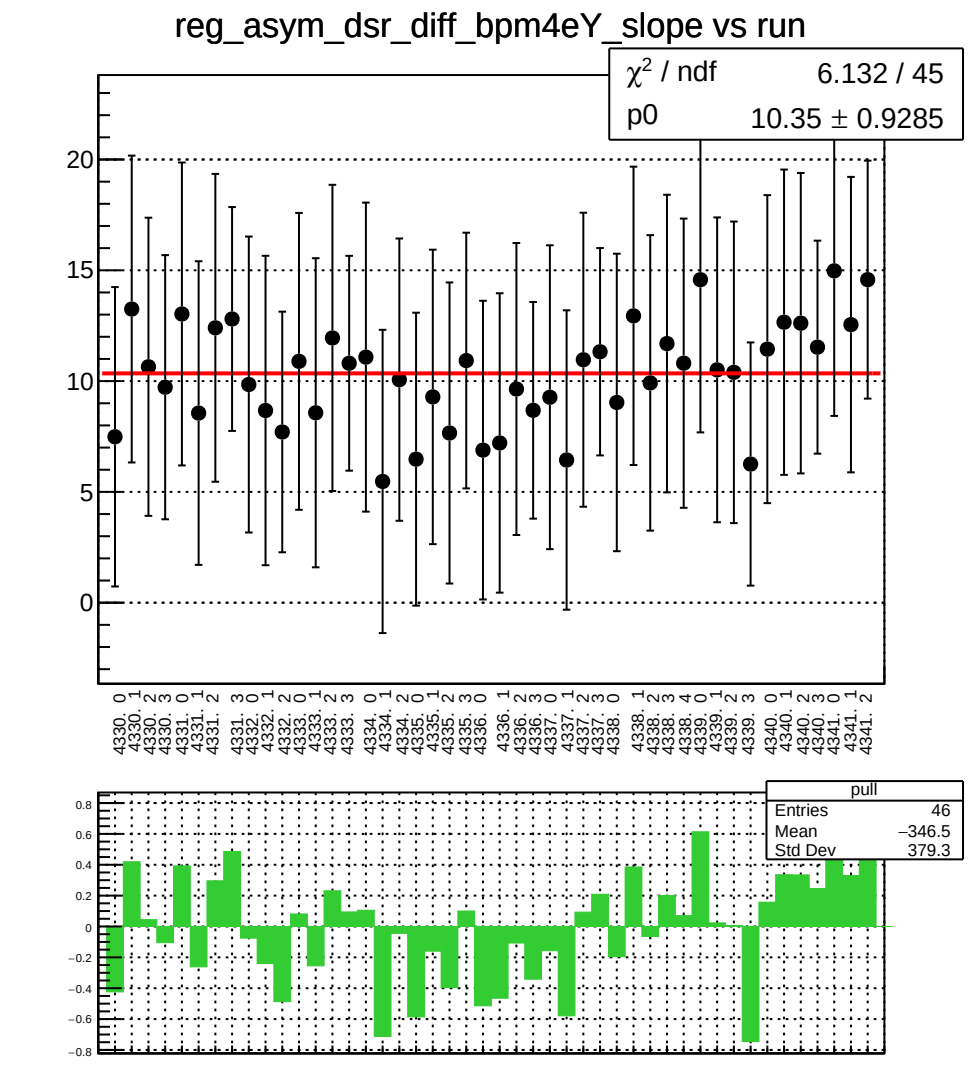

pull1D
Entries 46
Mean −0.004686
Std Dev 0.3485

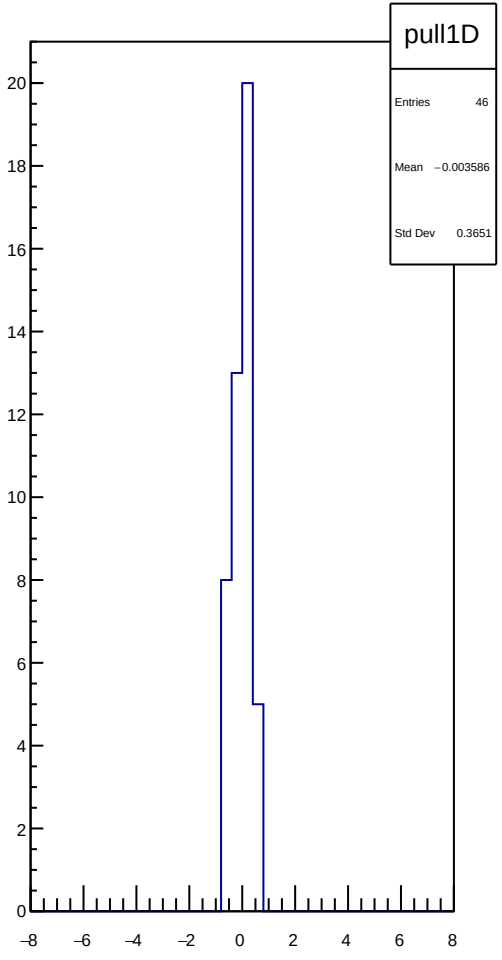

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 6.328 / 45
p0 −35.84 ± 0.7816
−25
−30
−35
−40
−45
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −37.51
Std Dev 24.42
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 46
Mean −0.007531
Std Dev 0.3708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

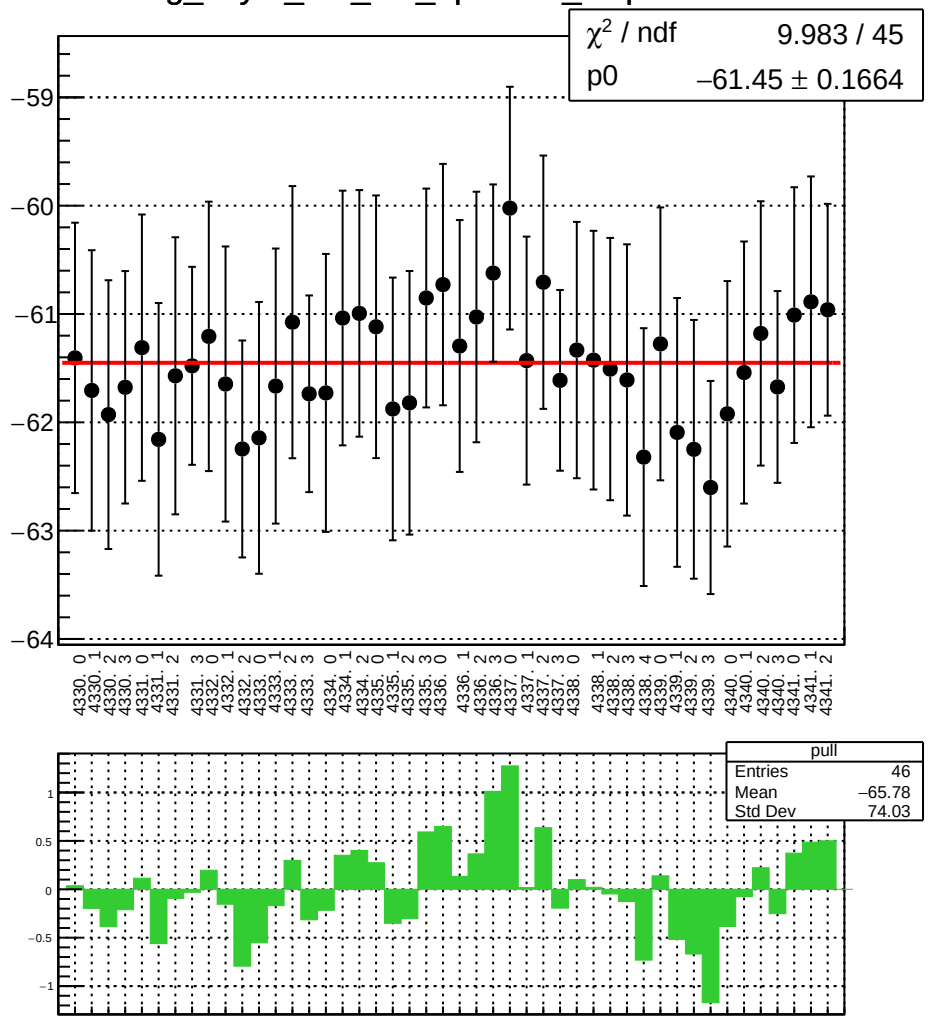

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 5.254 / 45
p0 −9.043 ± 0.8559
0
−5
−10
−15
−20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −2324
Std Dev 2355
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean 0.0005268
Std Dev 0.338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

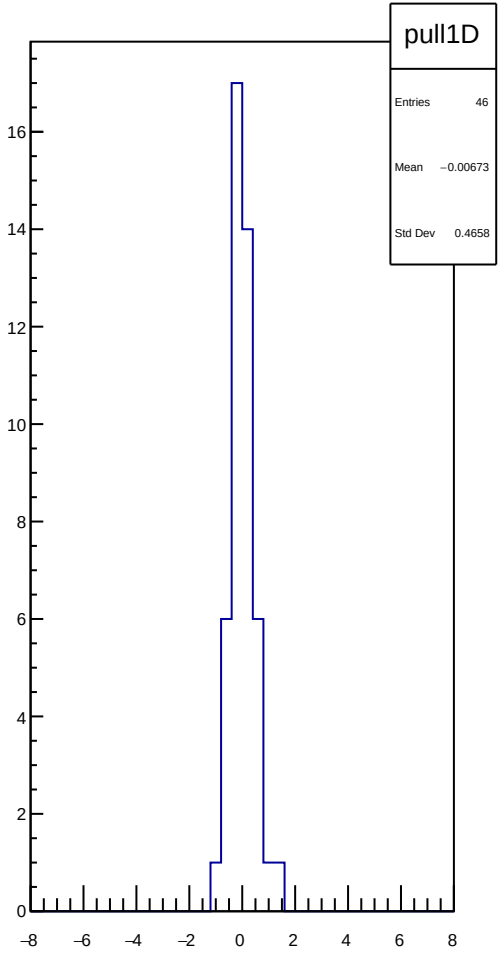

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 21.92 / 45
p0 19.93 ± 0.1366
pull
Entries 46
Mean −513.7
Std Dev 535.4

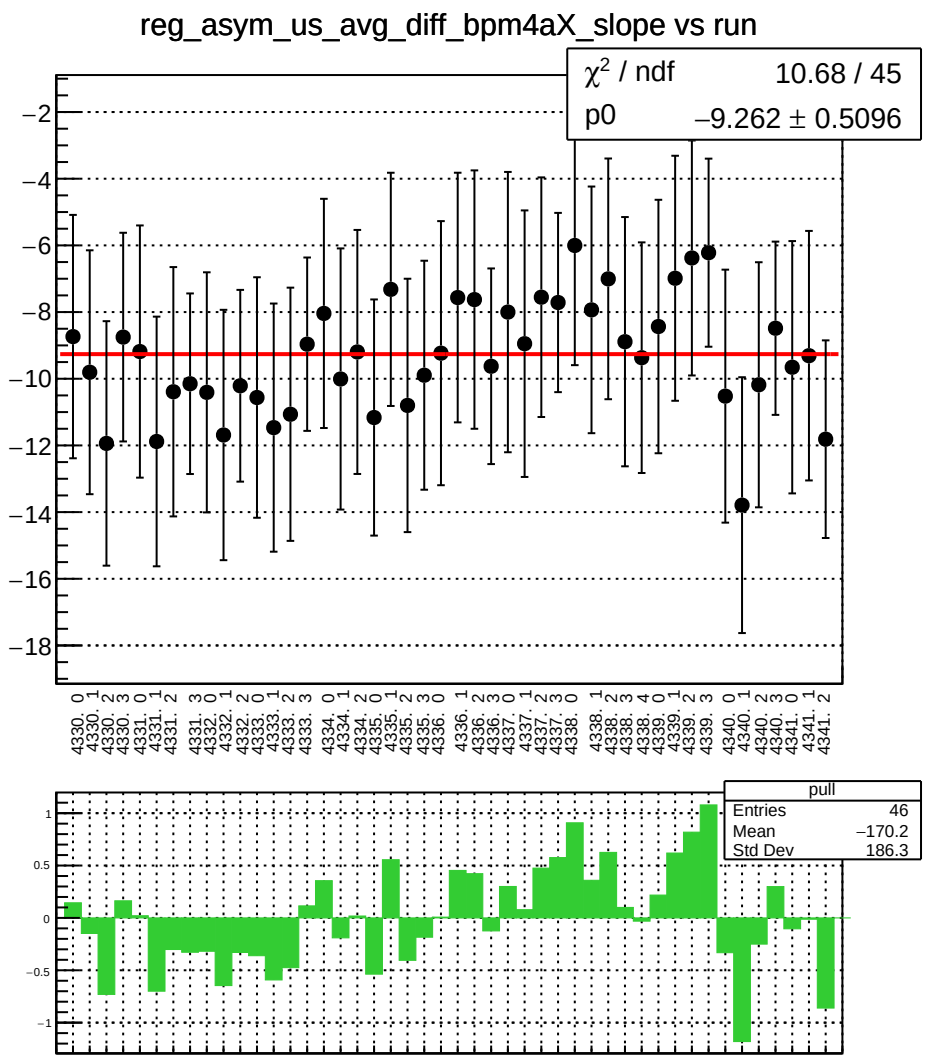

pull1D
Entries 46
Mean 0.01286
Std Dev 0.6902

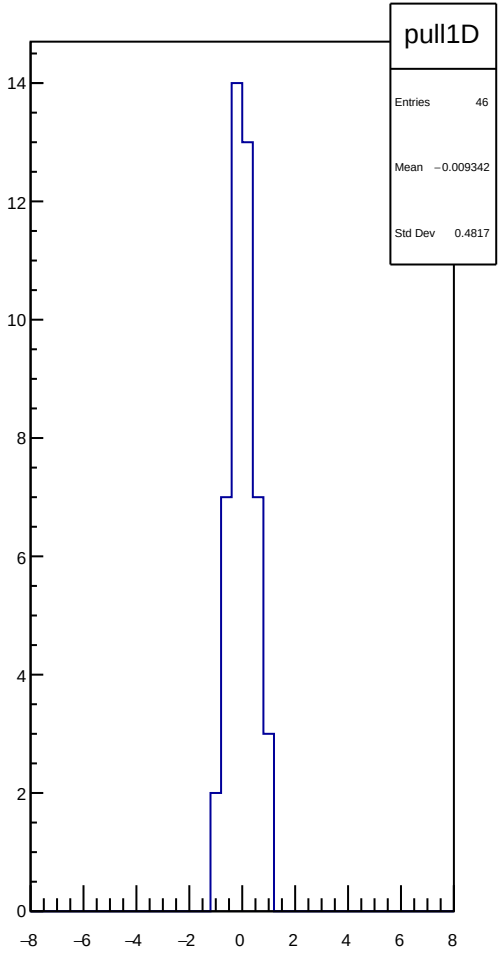

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 6.132 / 45
p0 10.35 ± 0.9285
pull
Entries 46
Mean −346.5
Std Dev 379.3

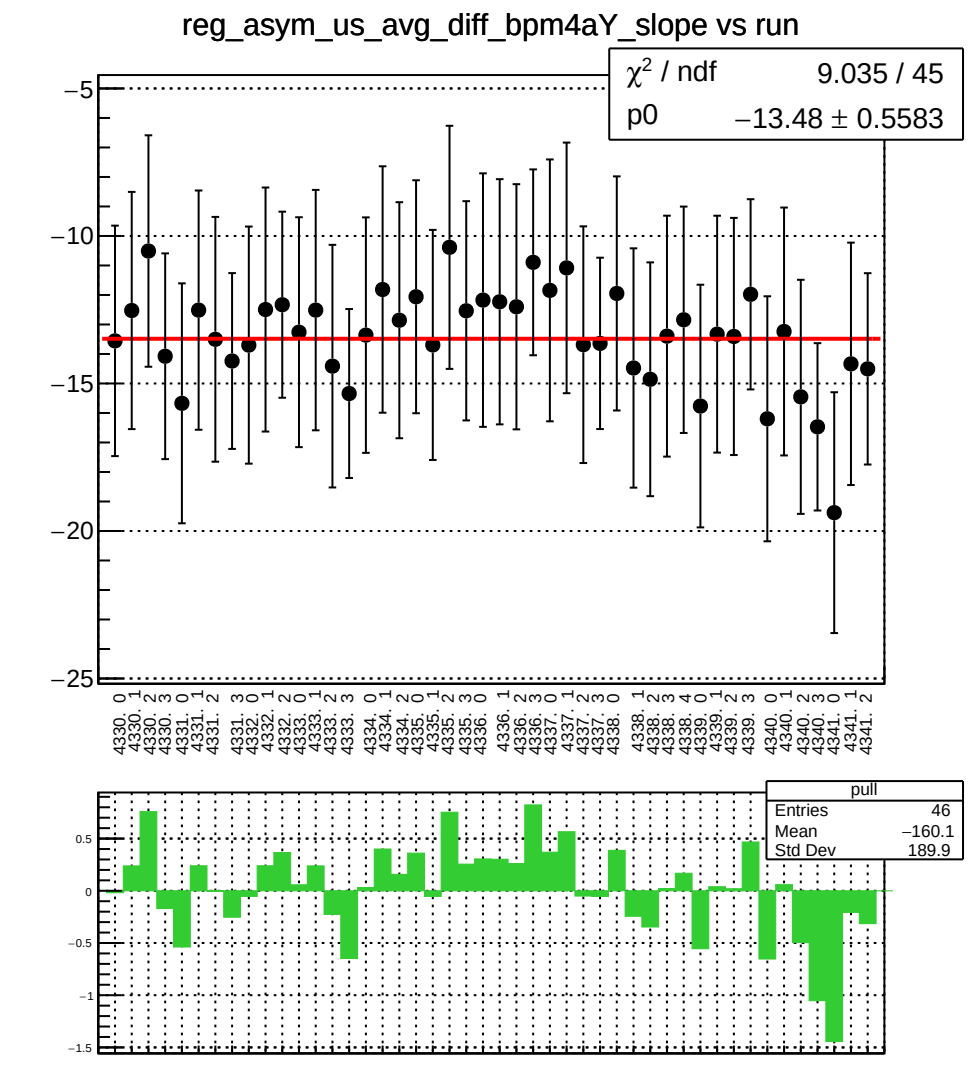

pull1D
Entries 46
Mean −0.003586
Std Dev 0.3651

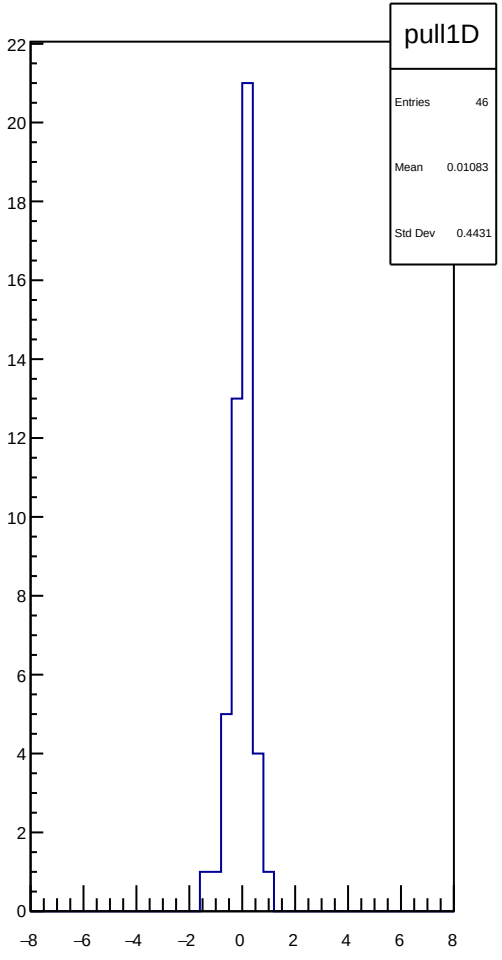

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 9.983 / 45
p0 −61.45 ± 0.1664
pull
Entries 46
Mean −65.78
Std Dev 74.03

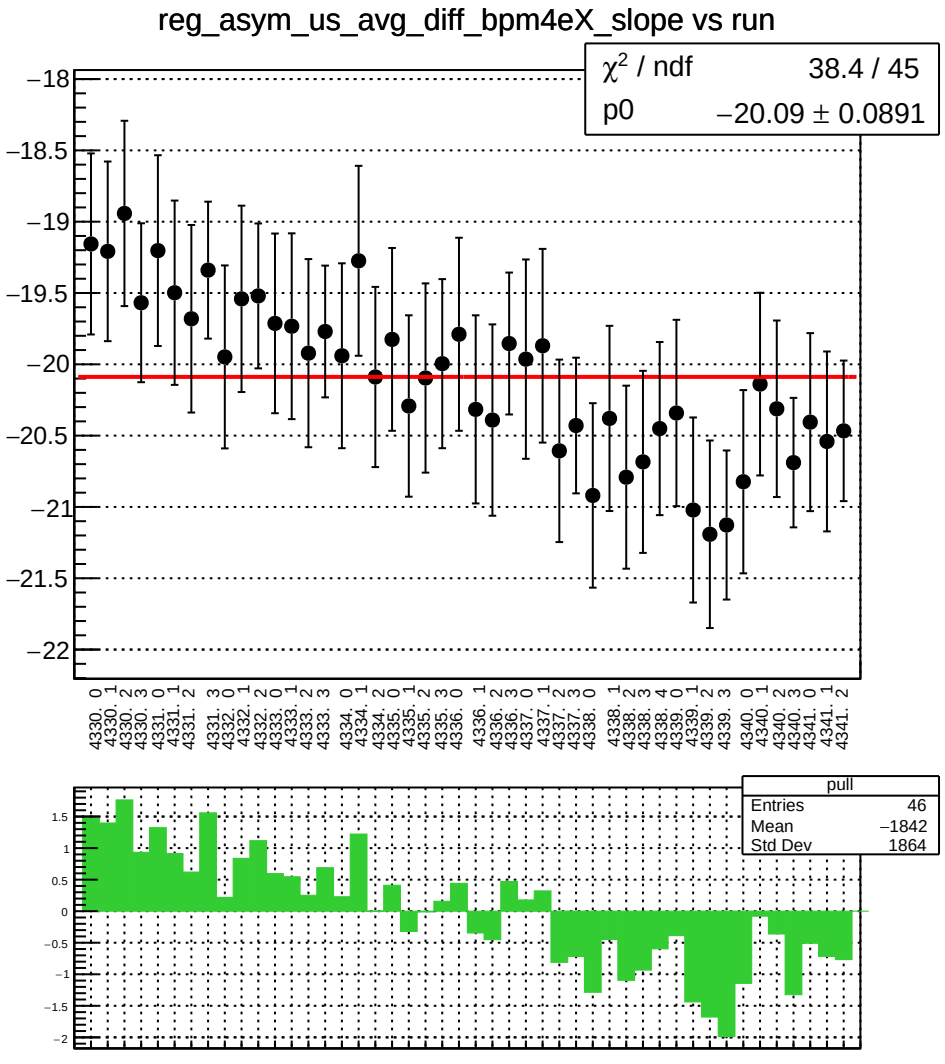

pull1D
Entries 46
Mean −0.00673
Std Dev 0.4658

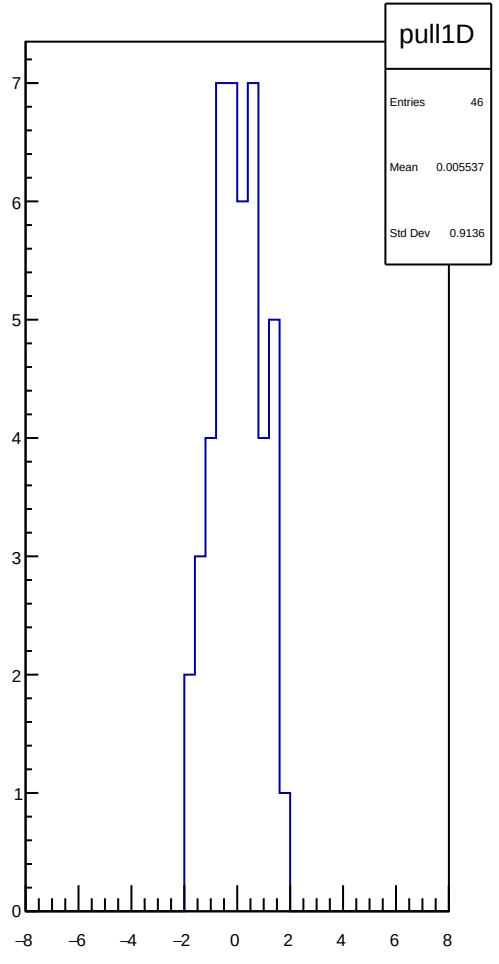

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.68 / 45
p0 −9.262 ± 0.5096
pull
Entries 46
Mean −170.2
Std Dev 186.3

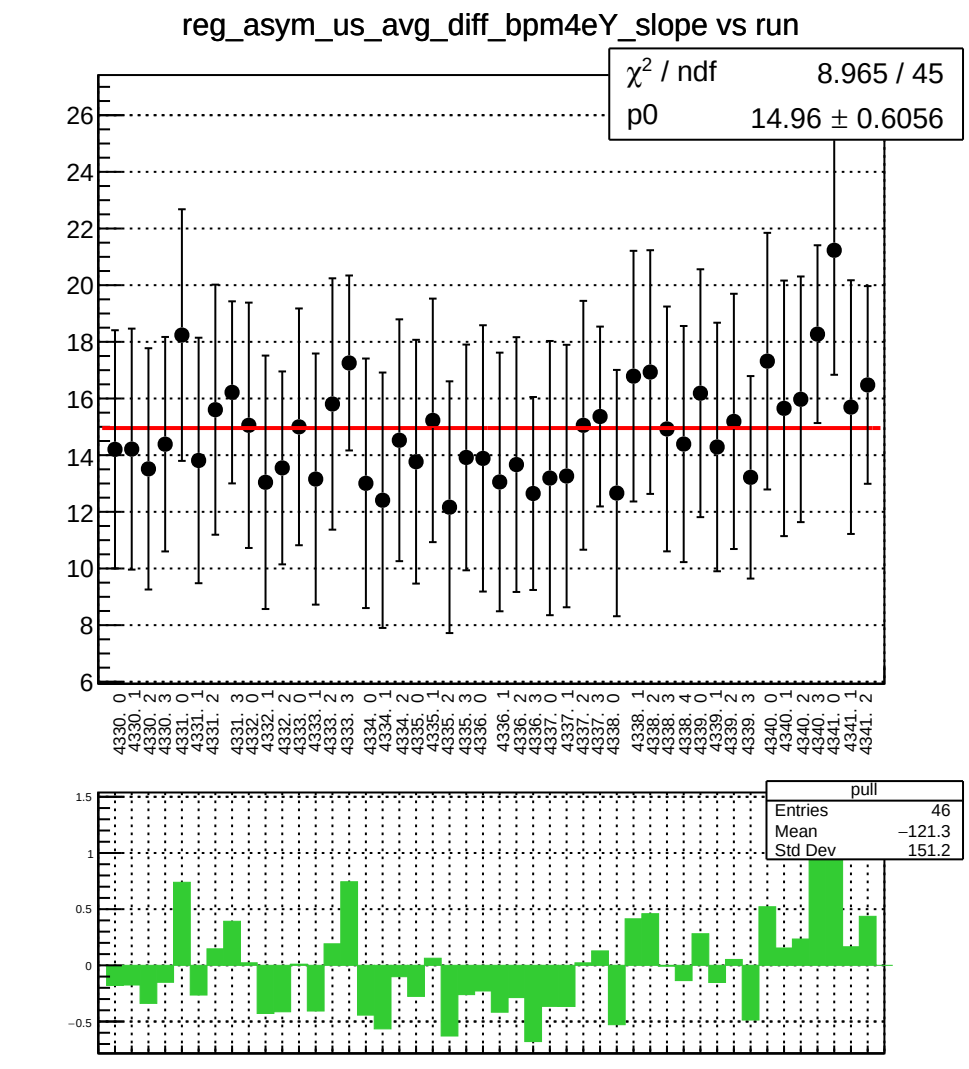

pull1D
Entries 46
Mean −0.009342
Std Dev 0.4817

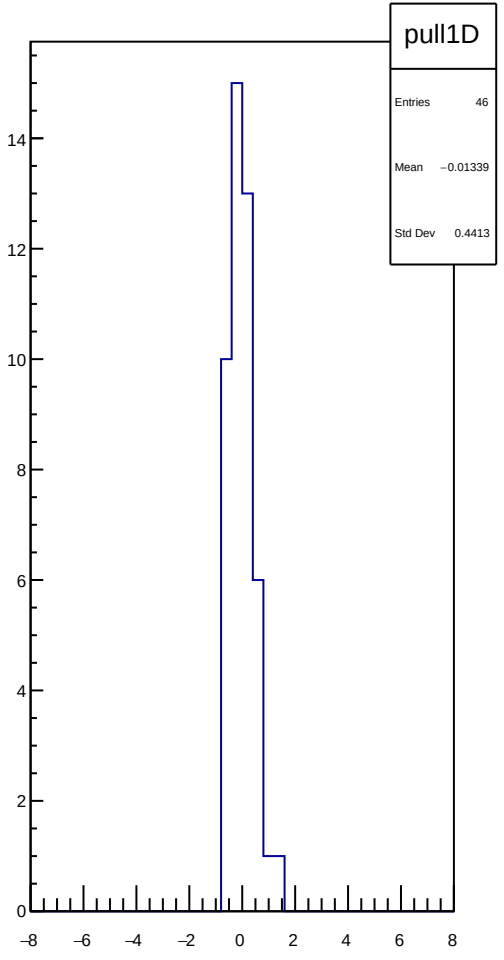

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.035 / 45
p0 −13.48 ± 0.5583
pull
Entries 46
Mean −160.1
Std Dev 189.9

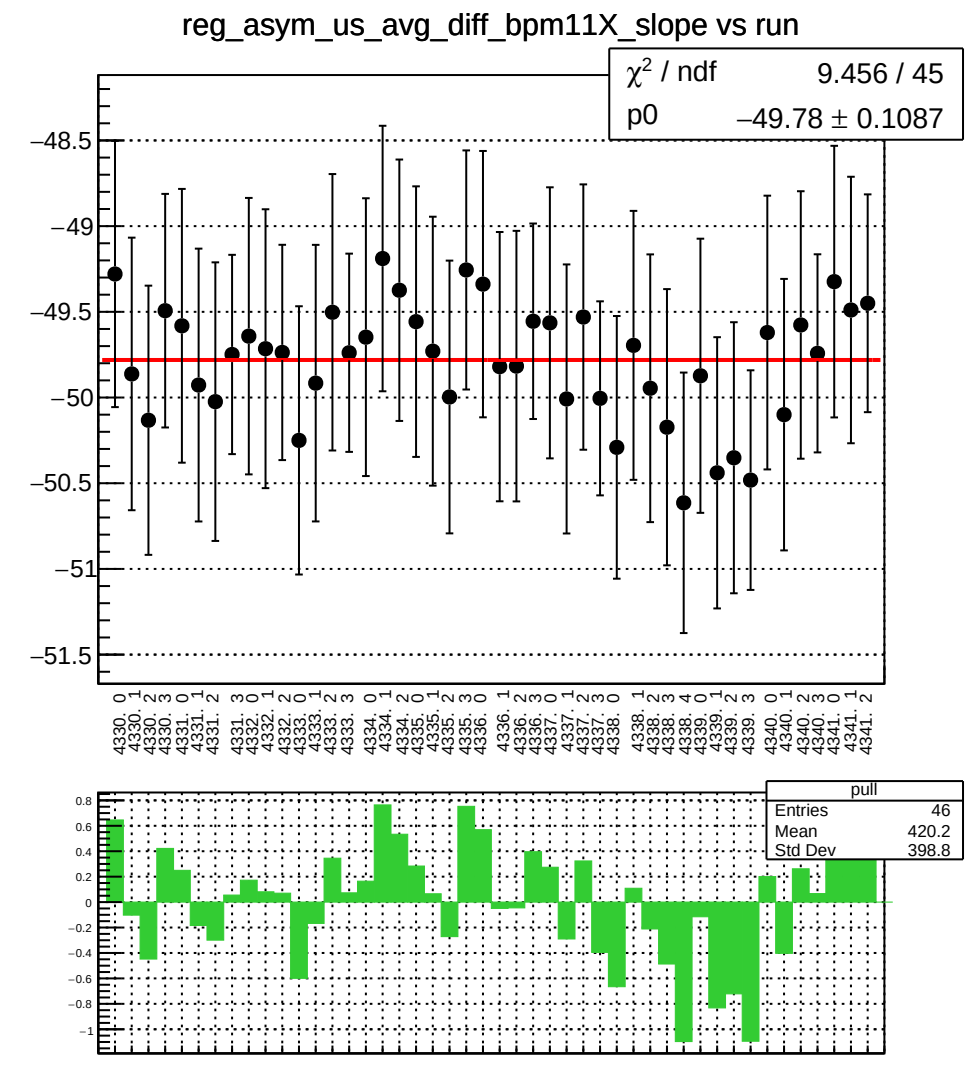

pull1D
Entries 46
Mean 0.01083
Std Dev 0.4431

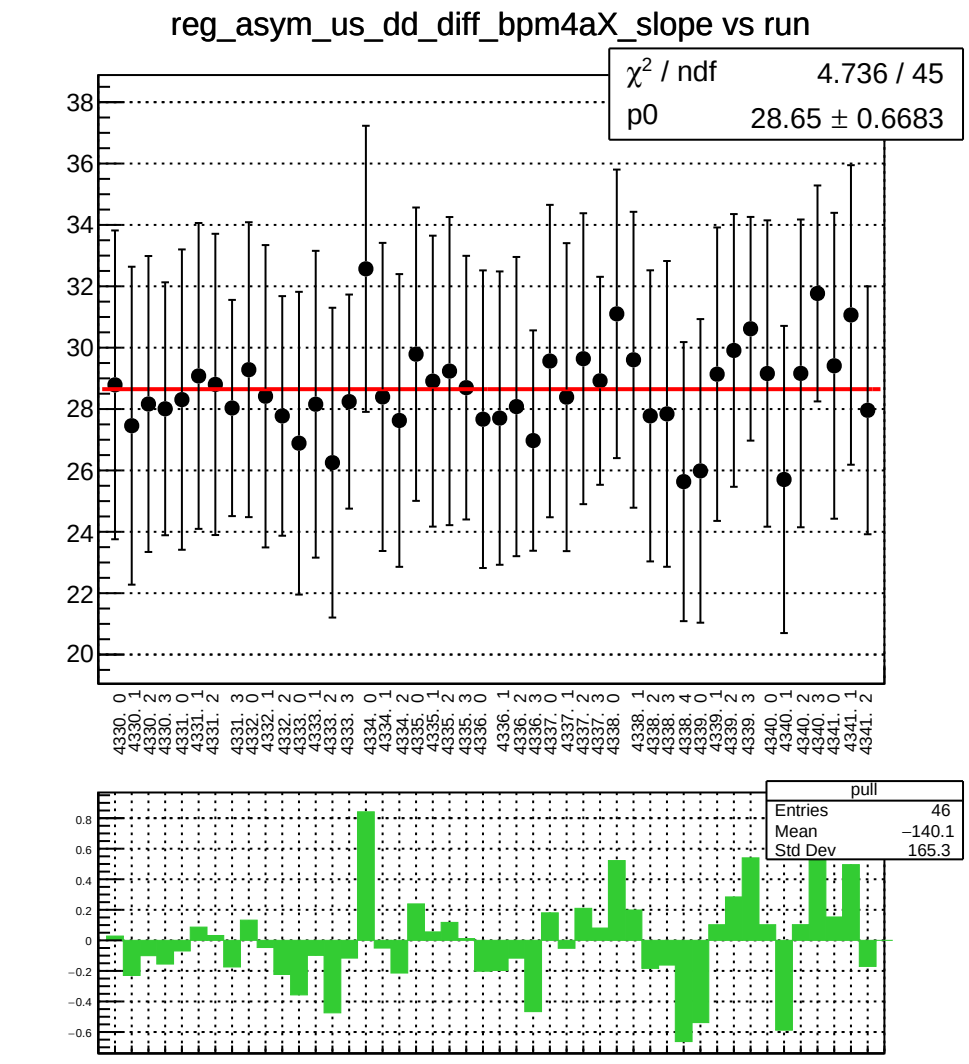

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.4 / 45
p0 −20.09 ± 0.0891
pull
Entries 46
Mean −1842
Std Dev 1864

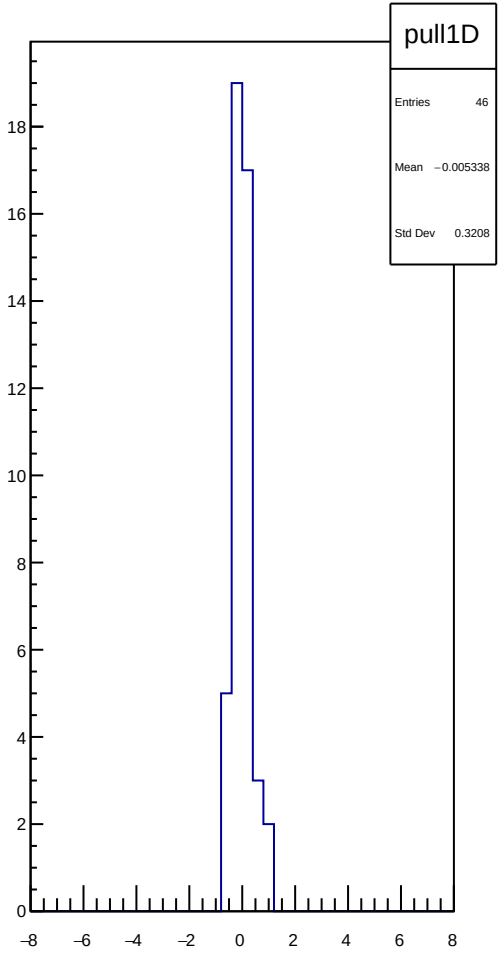

pull1D
Entries 46
Mean 0.005537
Std Dev 0.9136

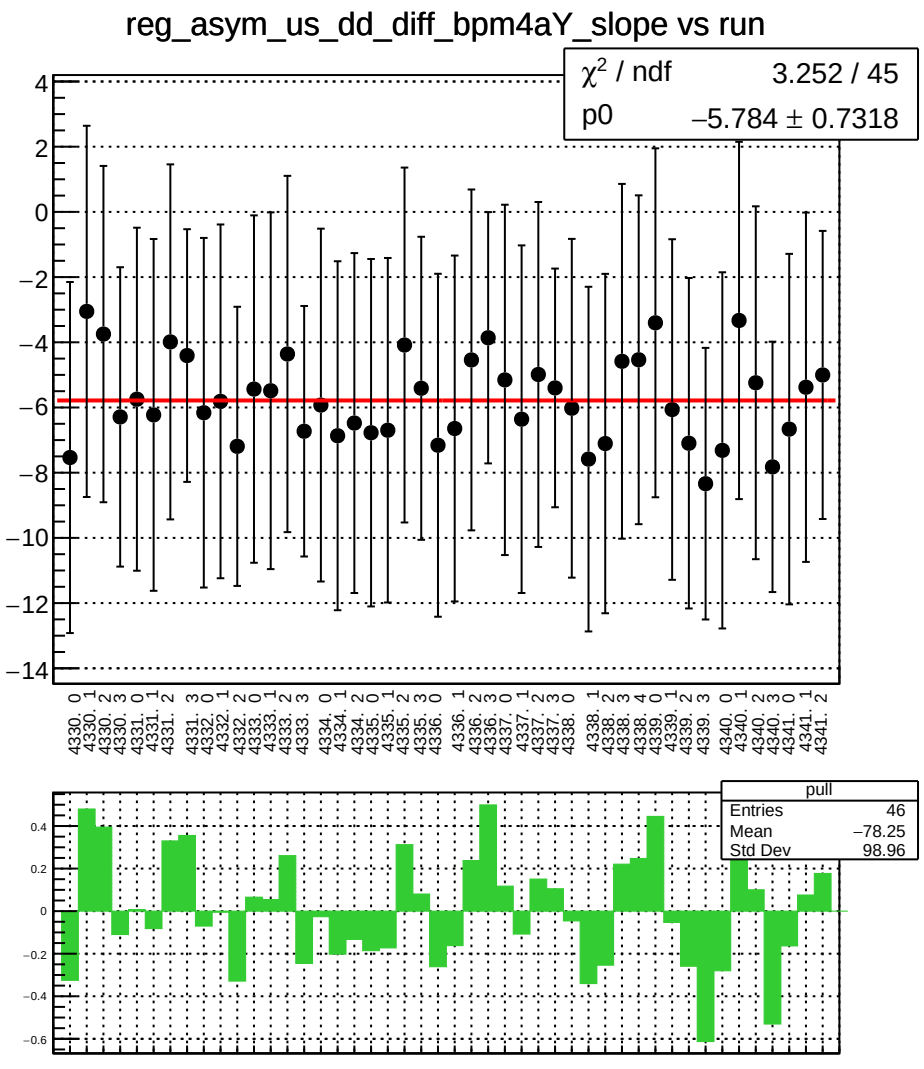

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.965 / 45
p0 14.96 ± 0.6056
pull
Entries 46
Mean −121.3
Std Dev 151.2

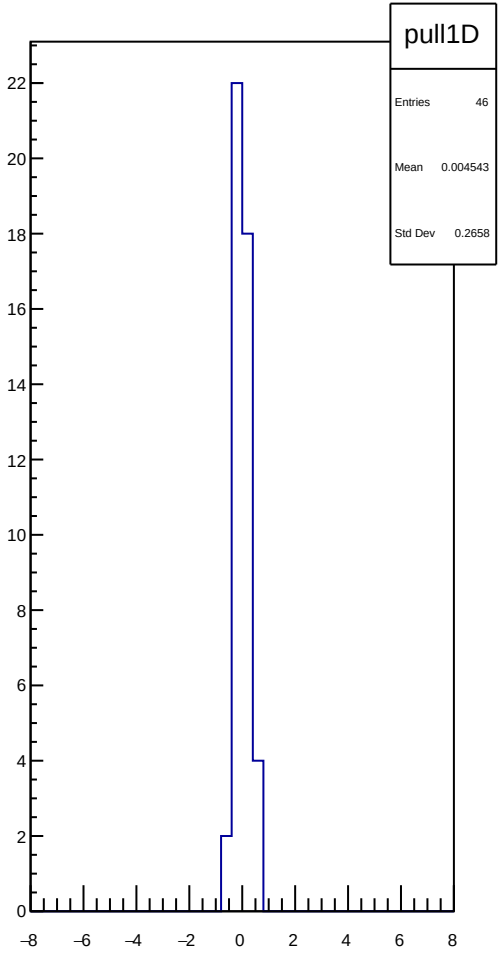

pull1D
Entries 46
Mean −0.01339
Std Dev 0.4413

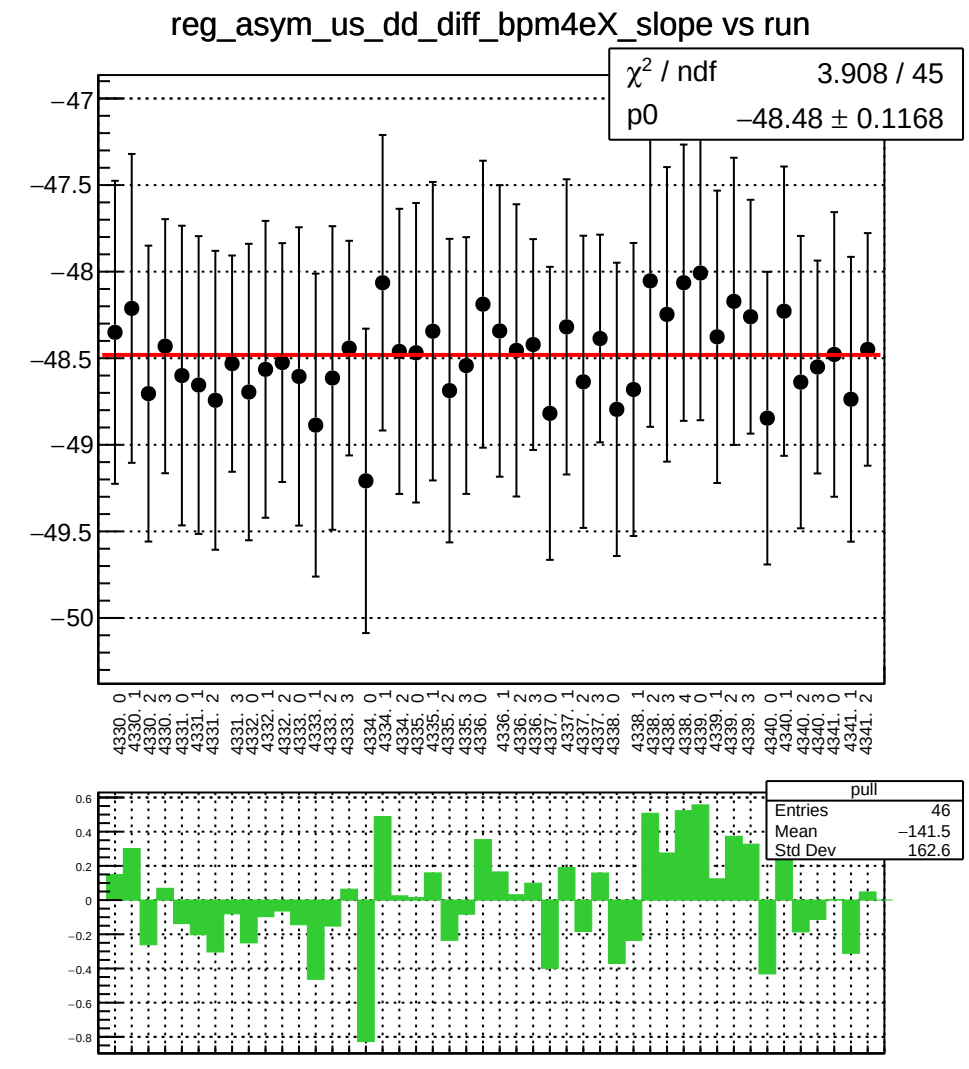

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 9.456 / 45
p0 −49.78 ± 0.1087
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 420.2
Std Dev 398.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 46
Mean −0.002731
Std Dev 0.4534
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

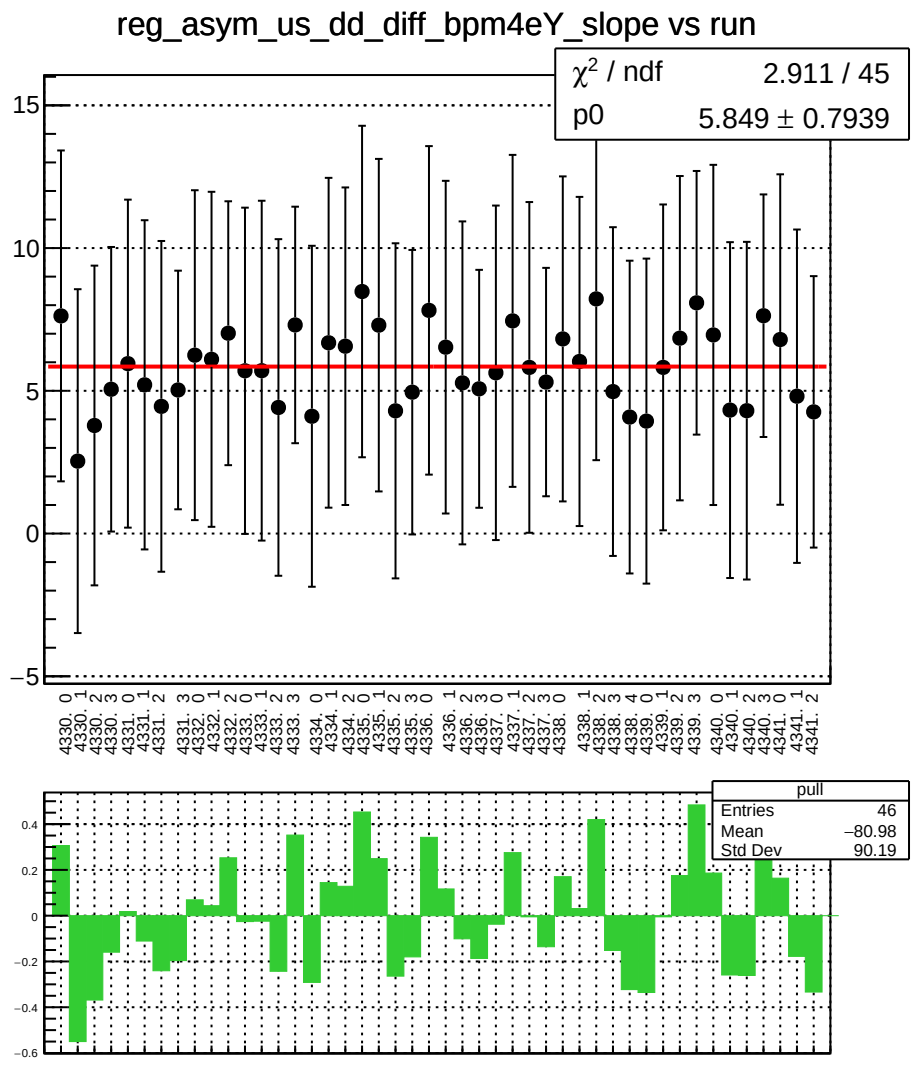

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.736 / 45
p0 28.65 ± 0.6683
pull
Entries 46
Mean −140.1
Std Dev 165.3

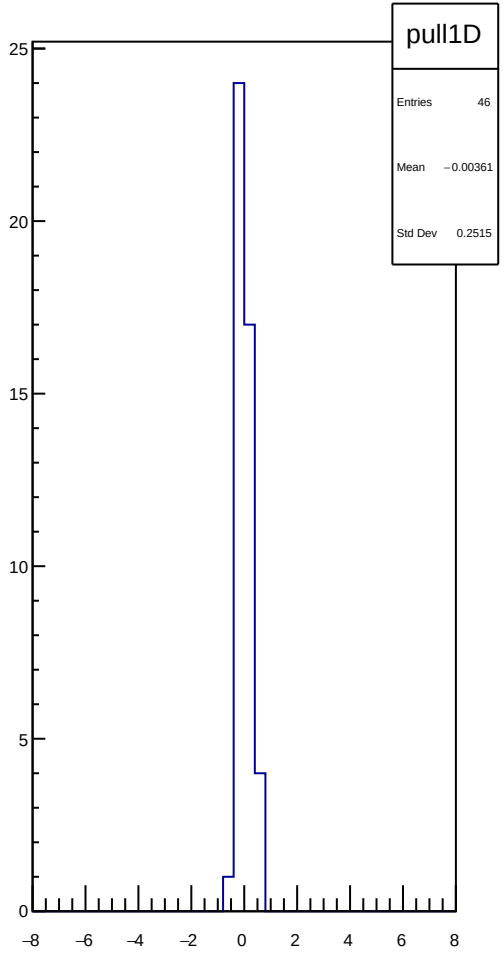

pull1D
Entries 46
Mean −0.005338
Std Dev 0.3208

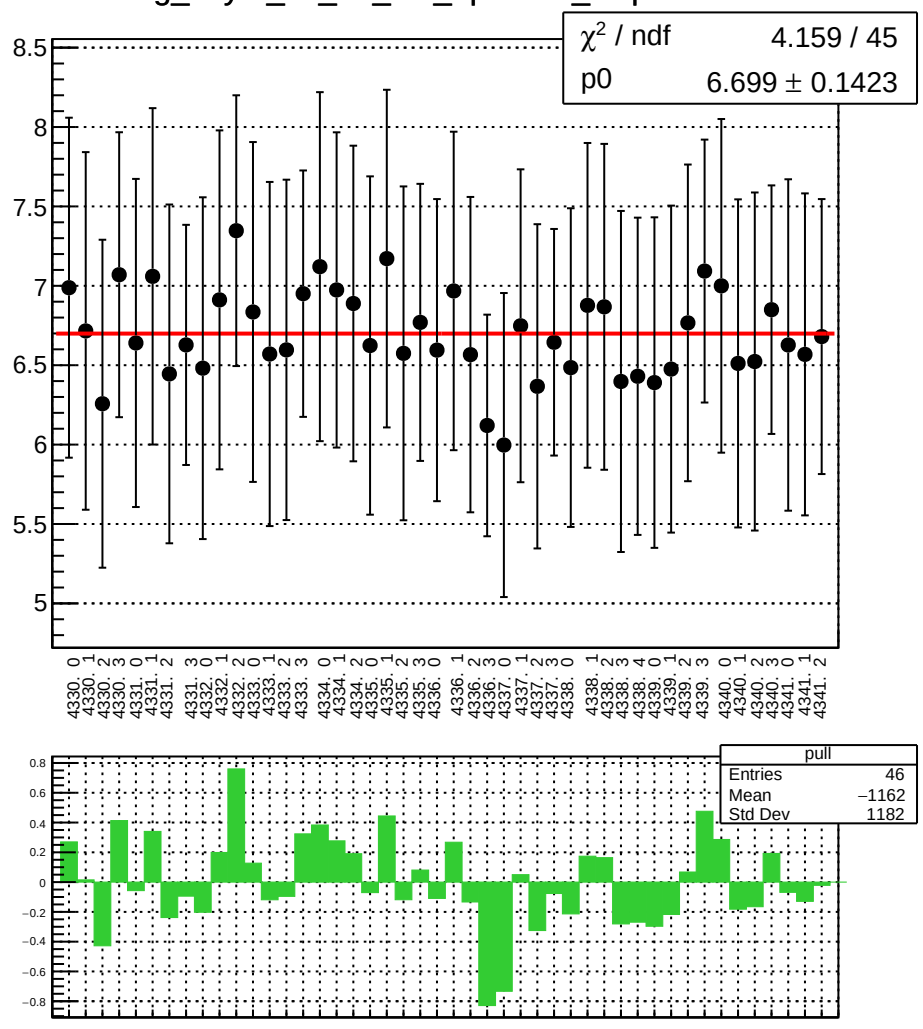

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.252 / 45
p0 −5.784 ± 0.7318
pull
Entries 46
Mean −78.25
Std Dev 98.96

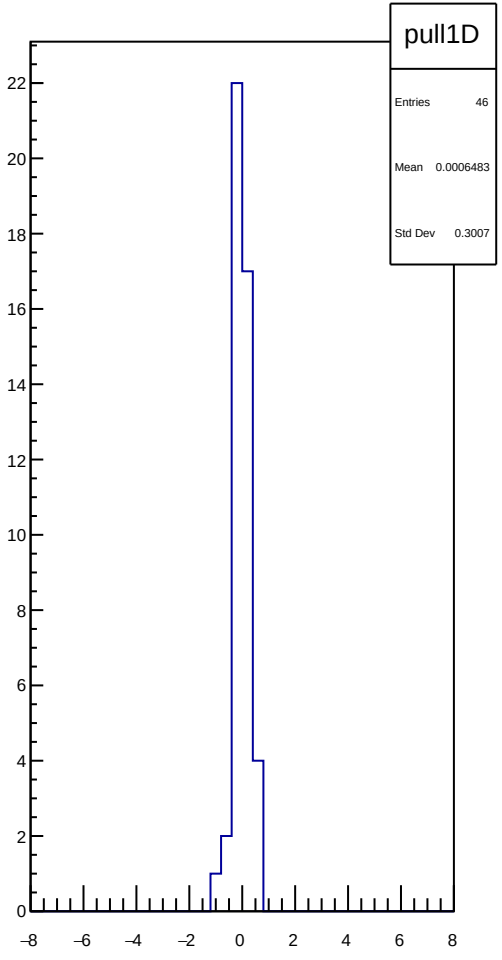

pull1D
Entries 46
Mean 0.004543
Std Dev 0.2658

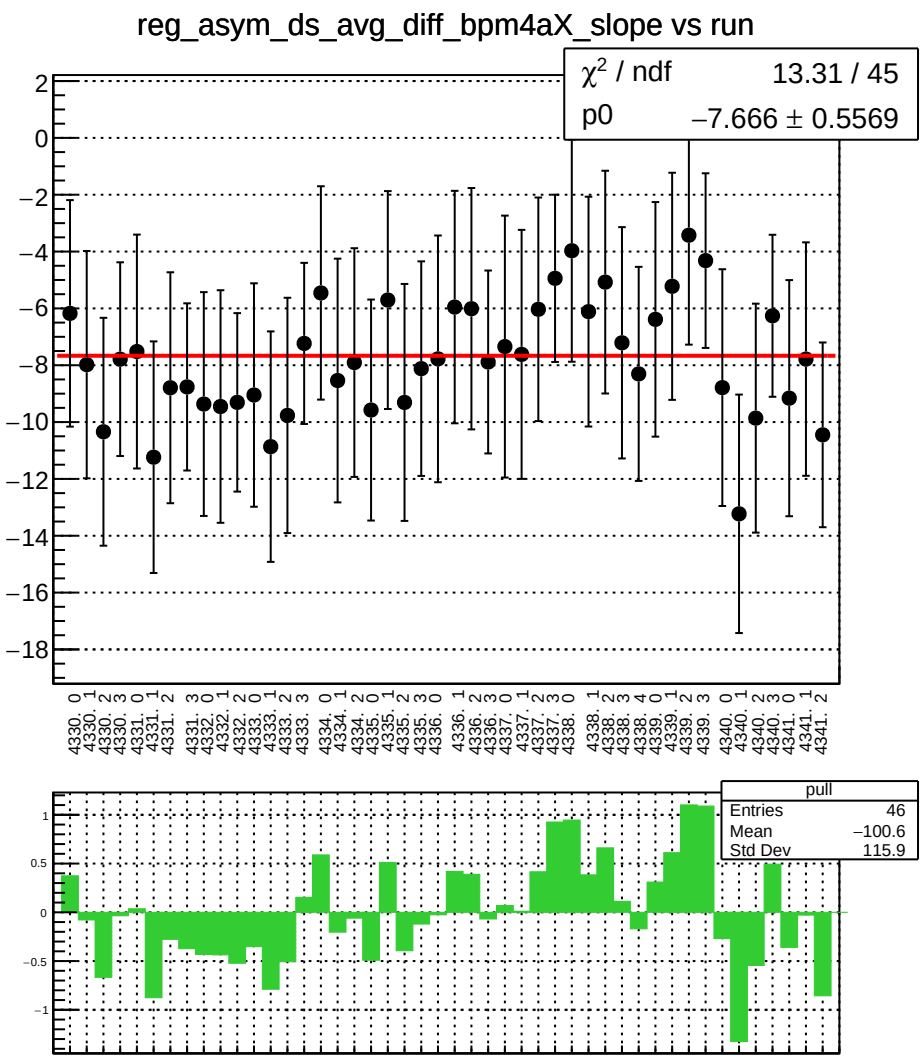

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.908 / 45
p0 −48.48 ± 0.1168
−47
−47.5
−48
−48.5
−49
−49.5
−50
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −141.5
Std Dev 162.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.004937
Std Dev 0.2914
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

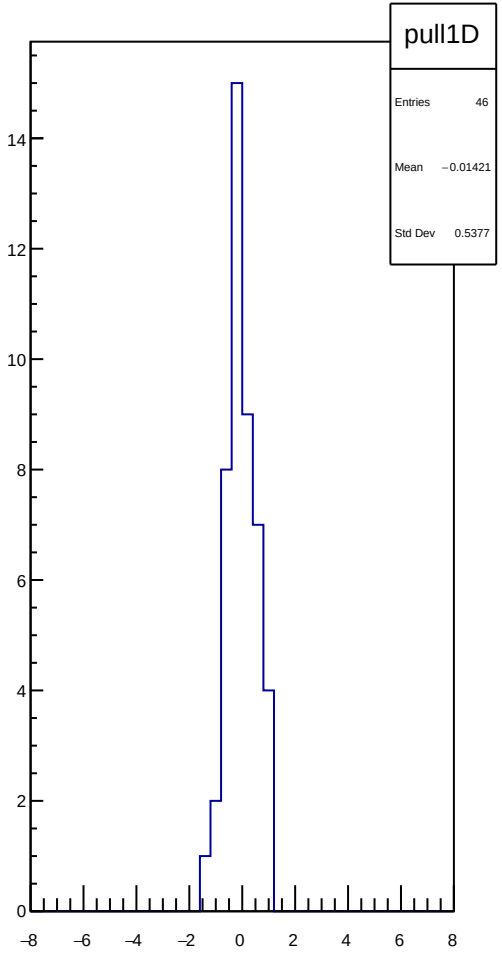

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.911 / 45
p0 5.849 ± 0.7939
pull
Entries 46
Mean −80.98
Std Dev 90.19

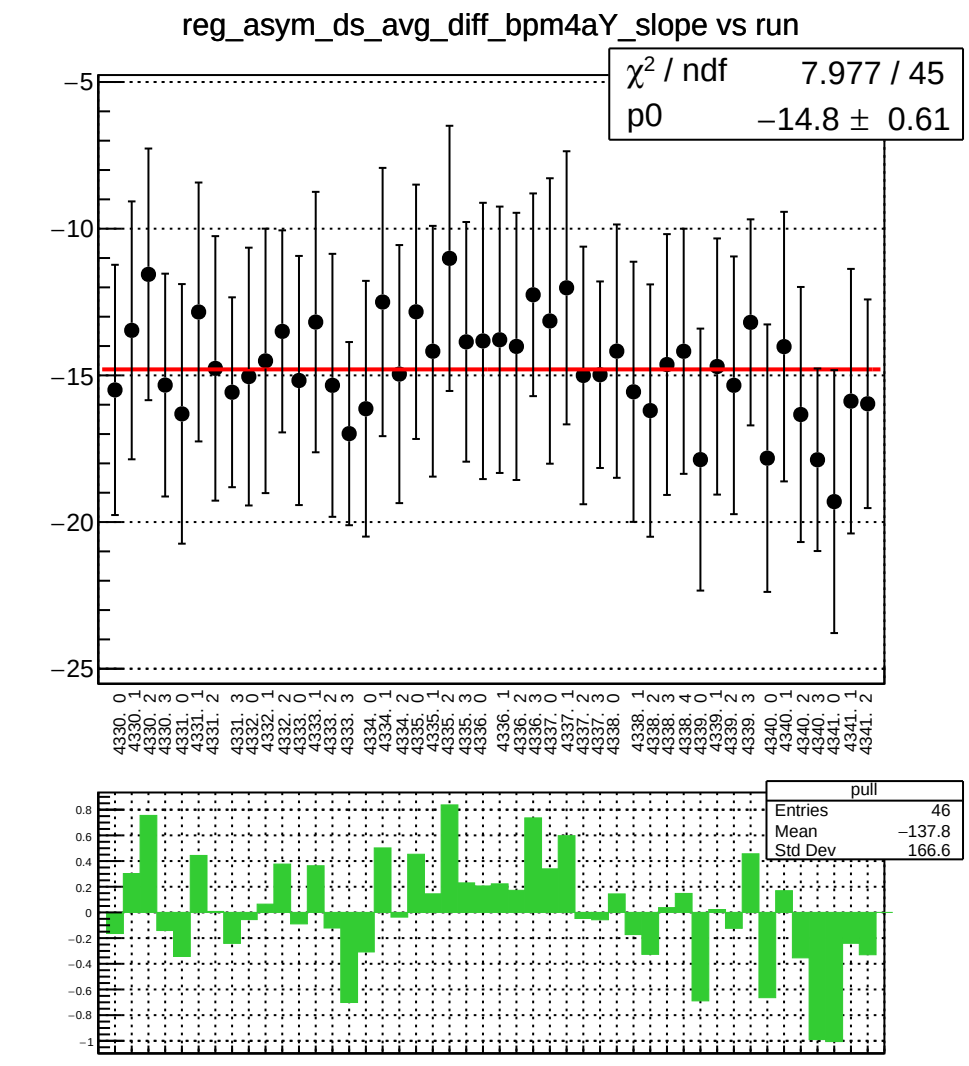

pull1D
Entries 46
Mean −0.00361
Std Dev 0.2515

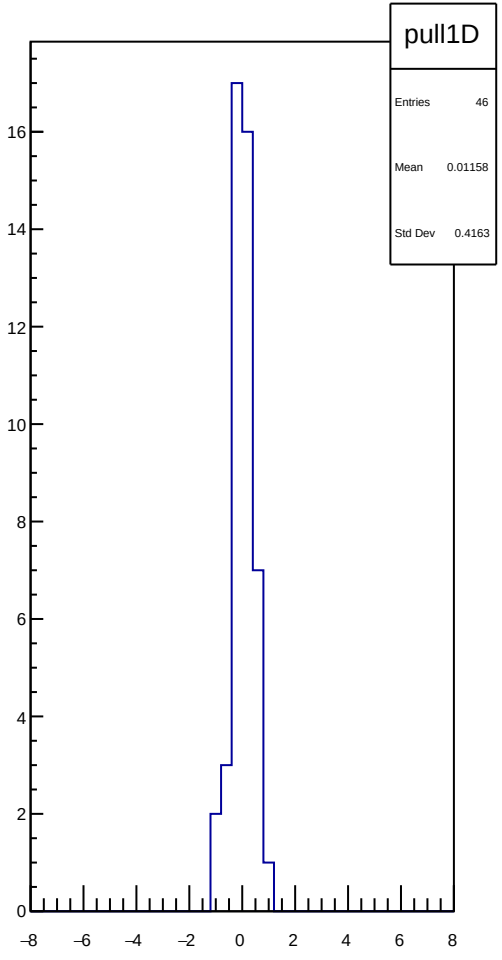

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 4.159 / 45
p0 6.699 ± 0.1423
pull
Entries 46
Mean −1162
Std Dev 1182

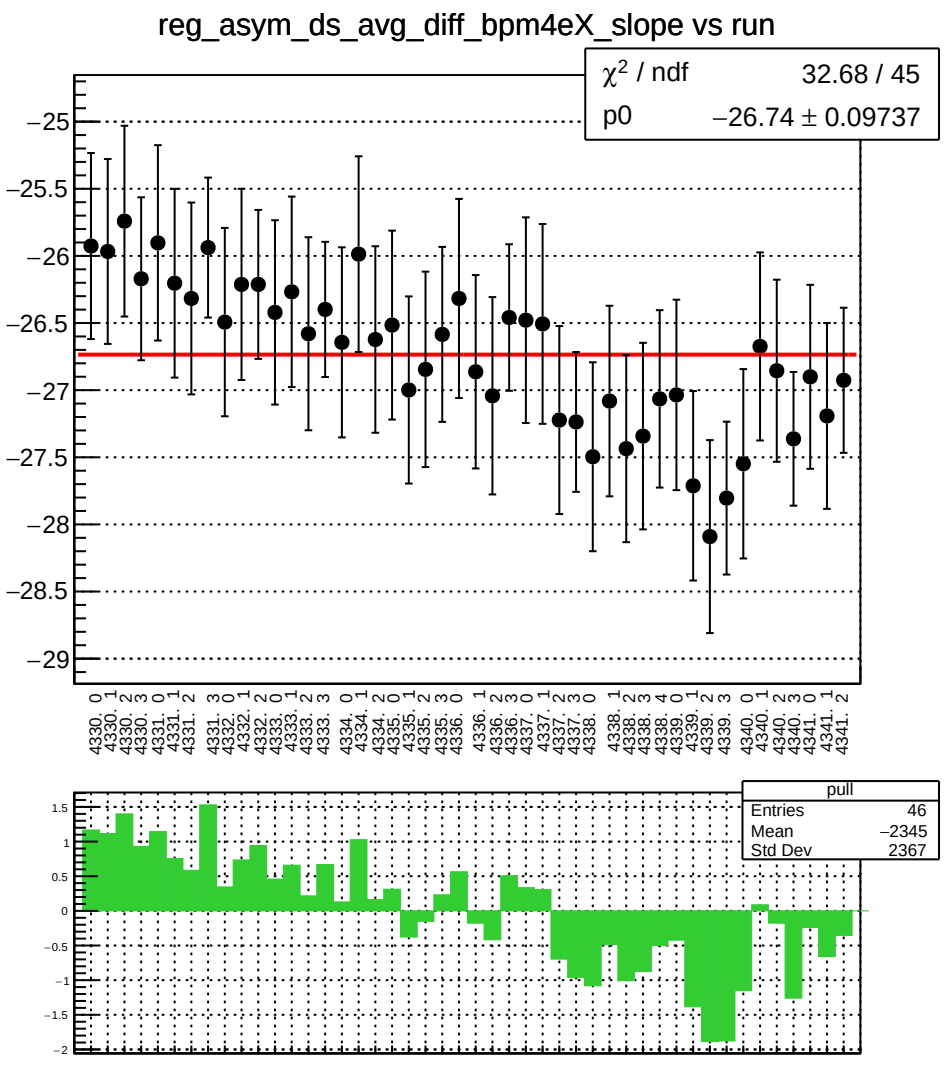

pull1D
Entries 46
Mean 0.0006483
Std Dev 0.3007

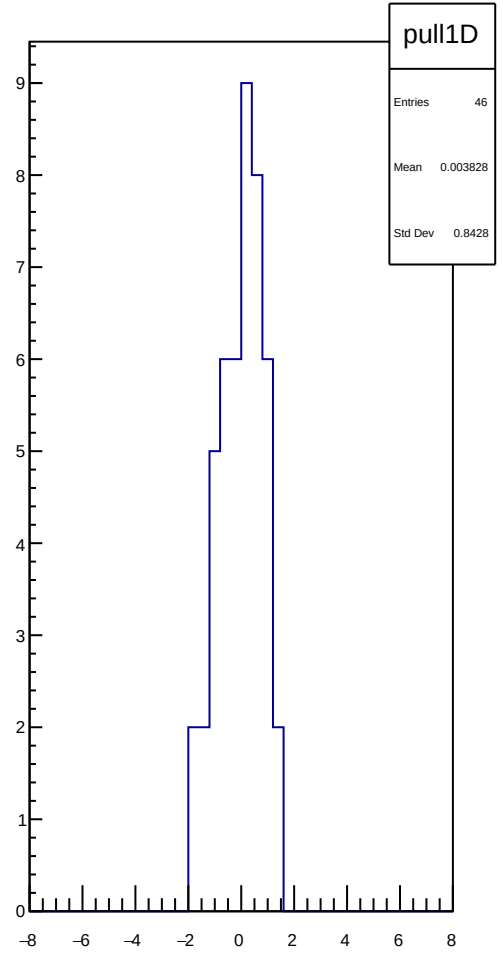

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.31 / 45
p0 −7.666 ± 0.5569
pull
Entries 46
Mean −100.6
Std Dev 115.9

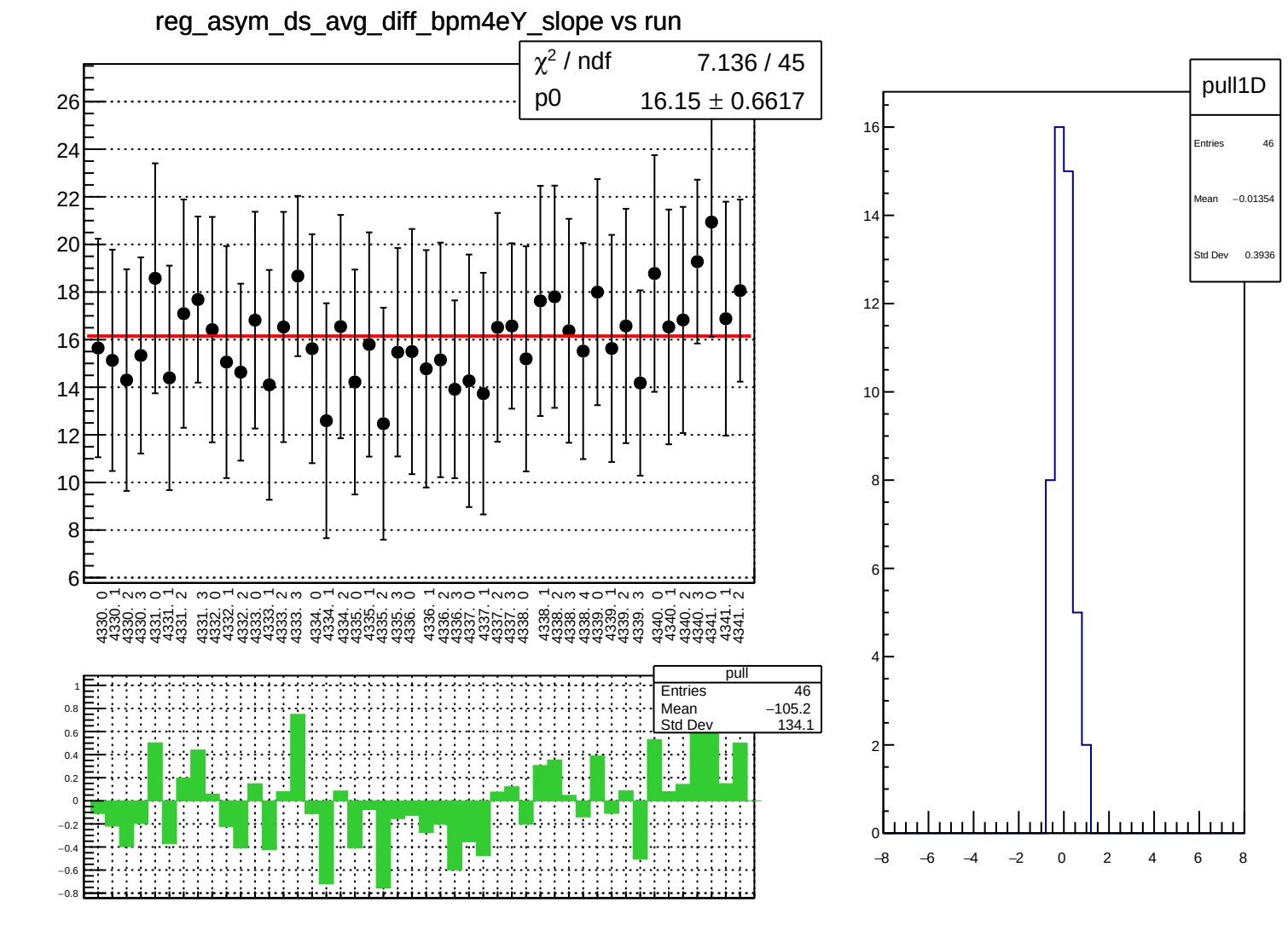

pull1D
Entries 46
Mean −0.01421
Std Dev 0.5377

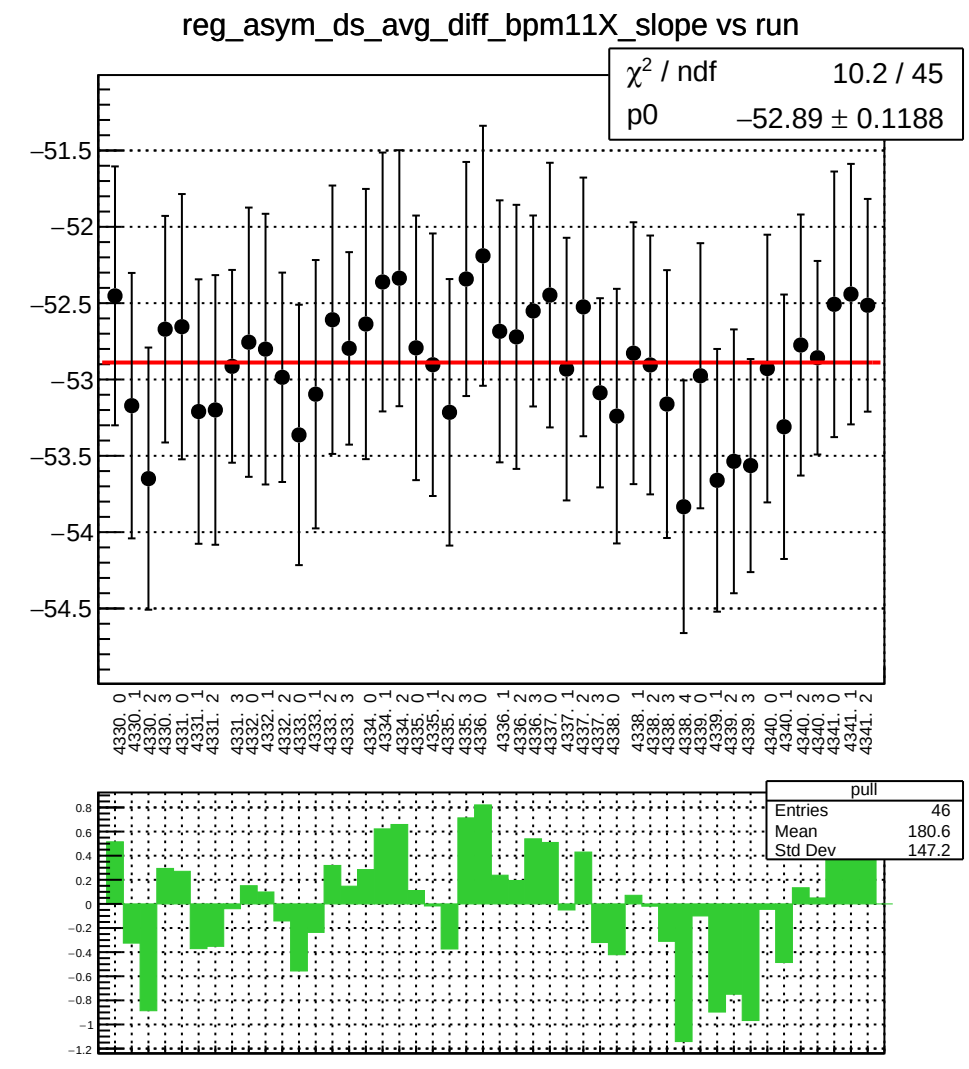

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.977 / 45
p0 −14.8 ± 0.61
pull
Entries 46
Mean −137.8
Std Dev 166.6

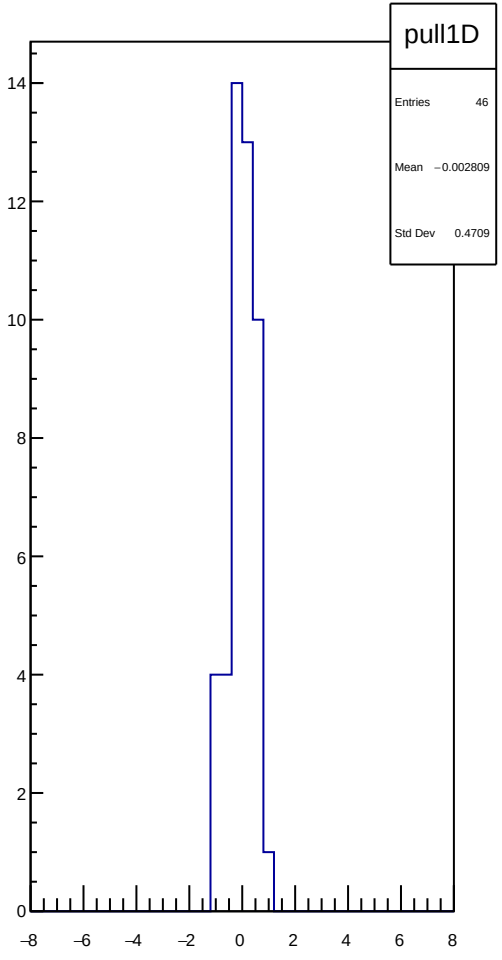

pull1D
Entries 46
Mean 0.01158
Std Dev 0.4163

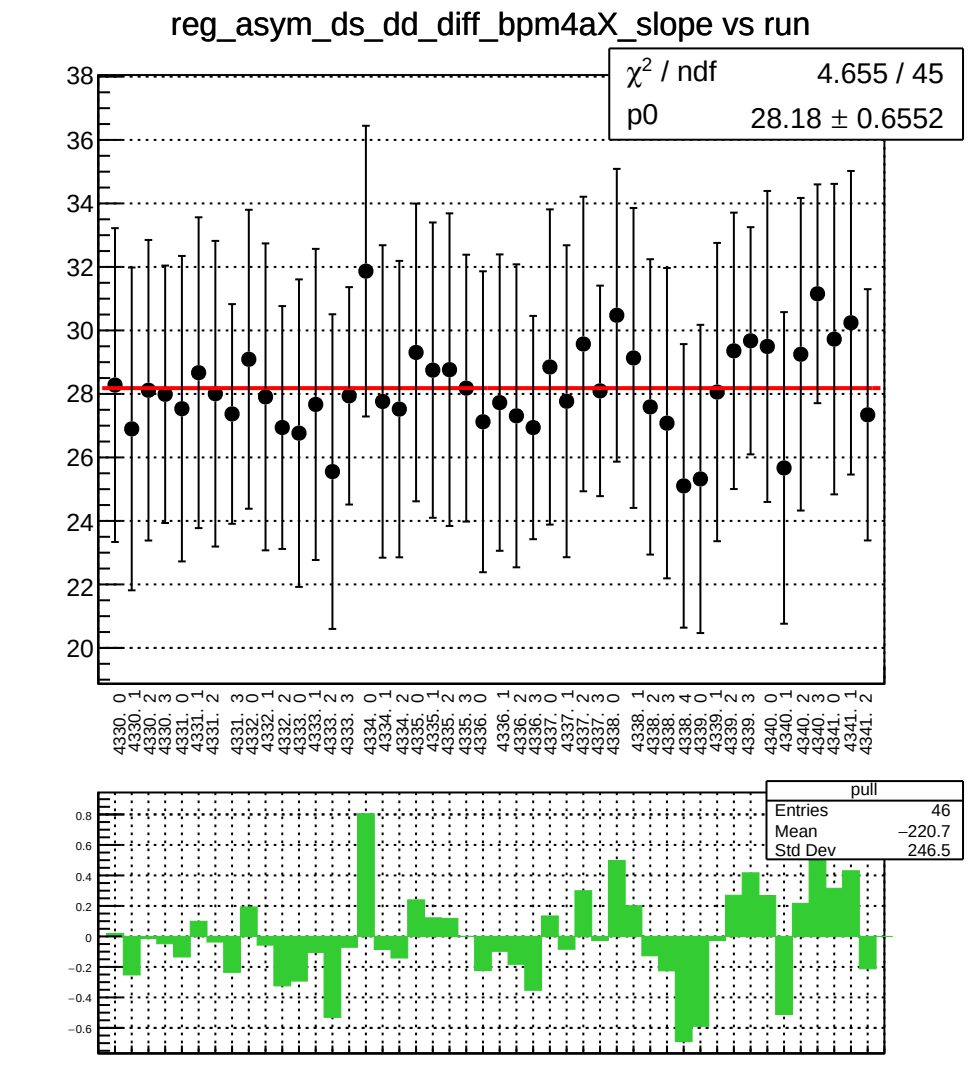

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.68 / 45
p0 −26.74 ± 0.09737
pull
Entries 46
Mean −2345
Std Dev 2367

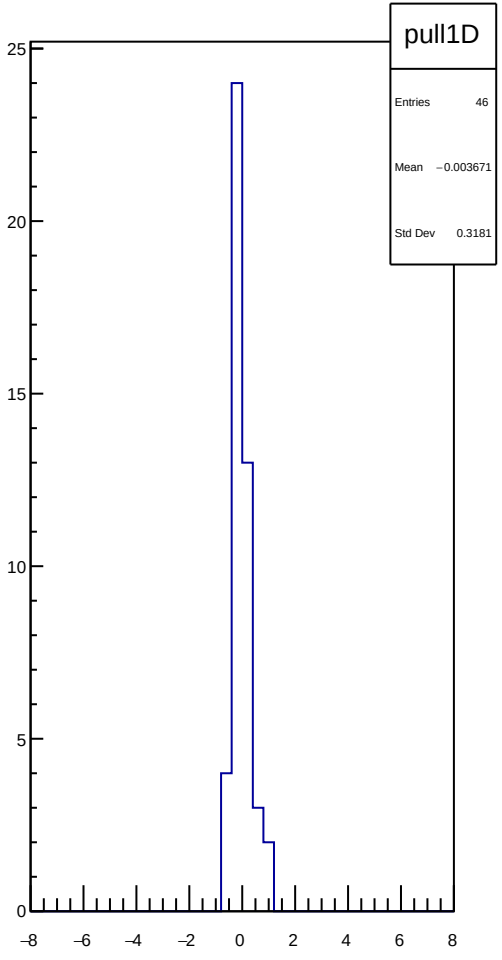

pull1D
Entries 46
Mean 0.003828
Std Dev 0.8428

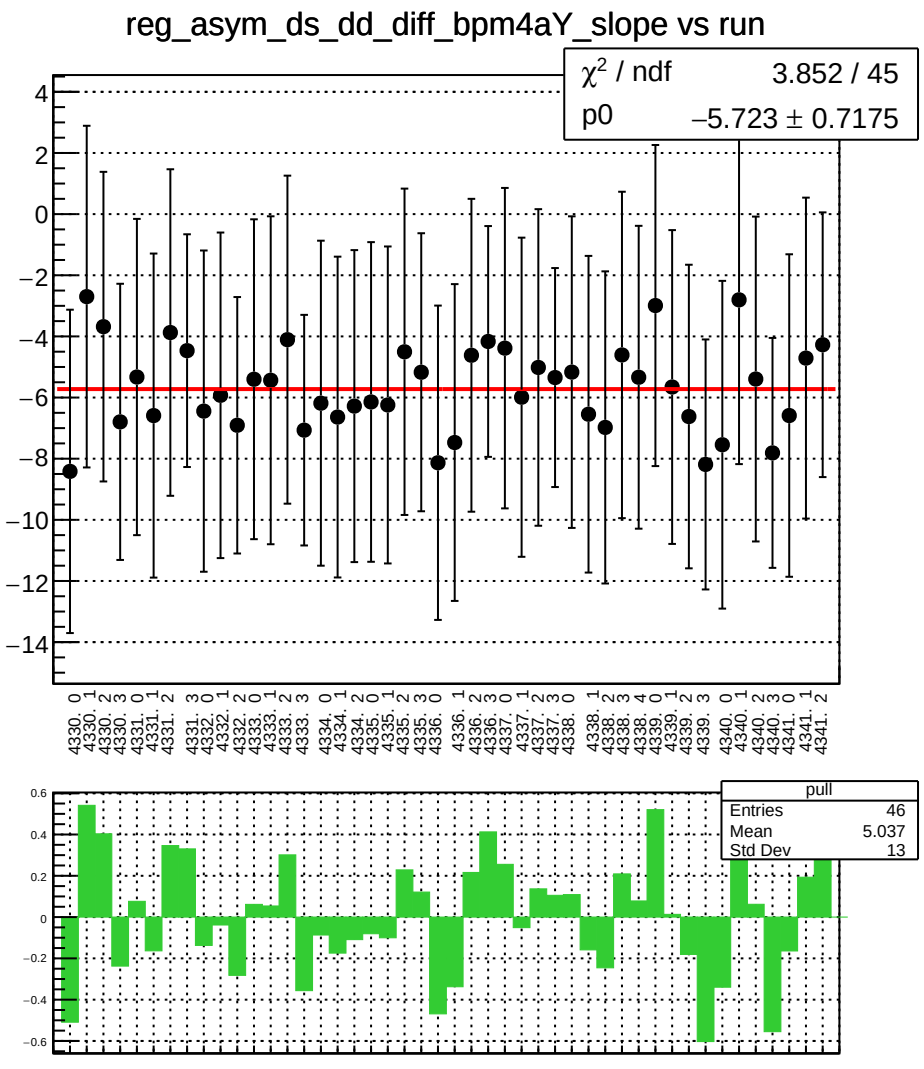

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.136 / 45
p0 16.15 ± 0.6617
pull
Entries 46
Mean −105.2
Std Dev 134.1
pull1D
Entries 46
Mean −0.01354
Std Dev 0.3936

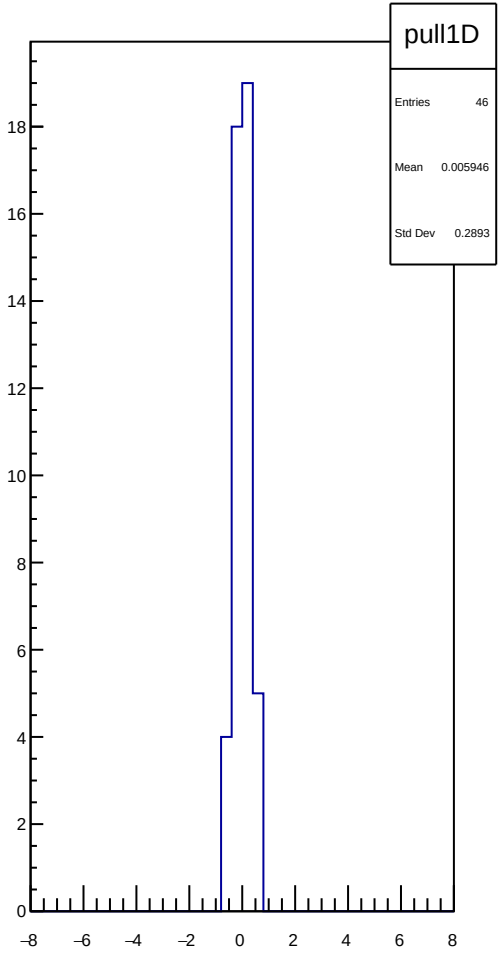

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 10.2 / 45
p0 −52.89 ± 0.1188
−51.5
−52
−52.5
−53
−53.5
−54
−54.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 180.6
Std Dev 147.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

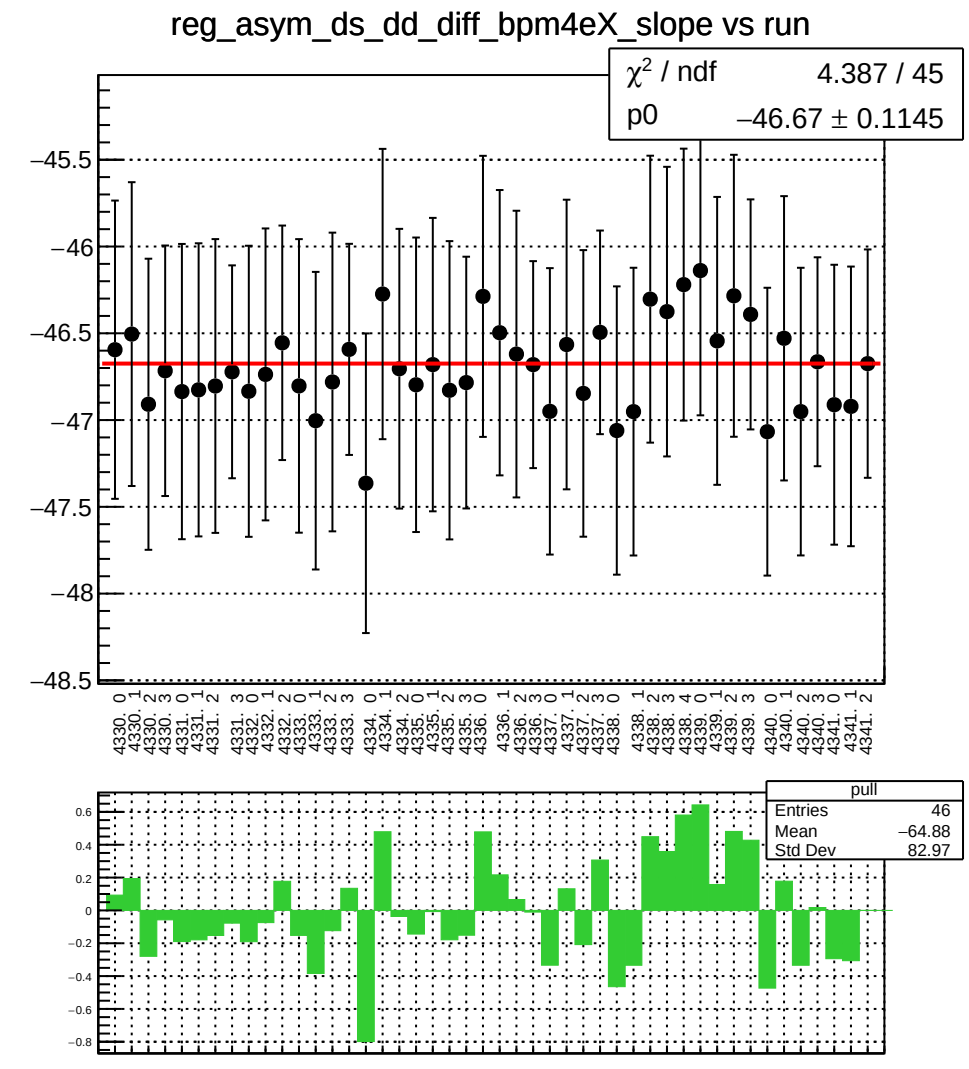

pull1D
Entries 46
Mean −0.002809
Std Dev 0.4709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

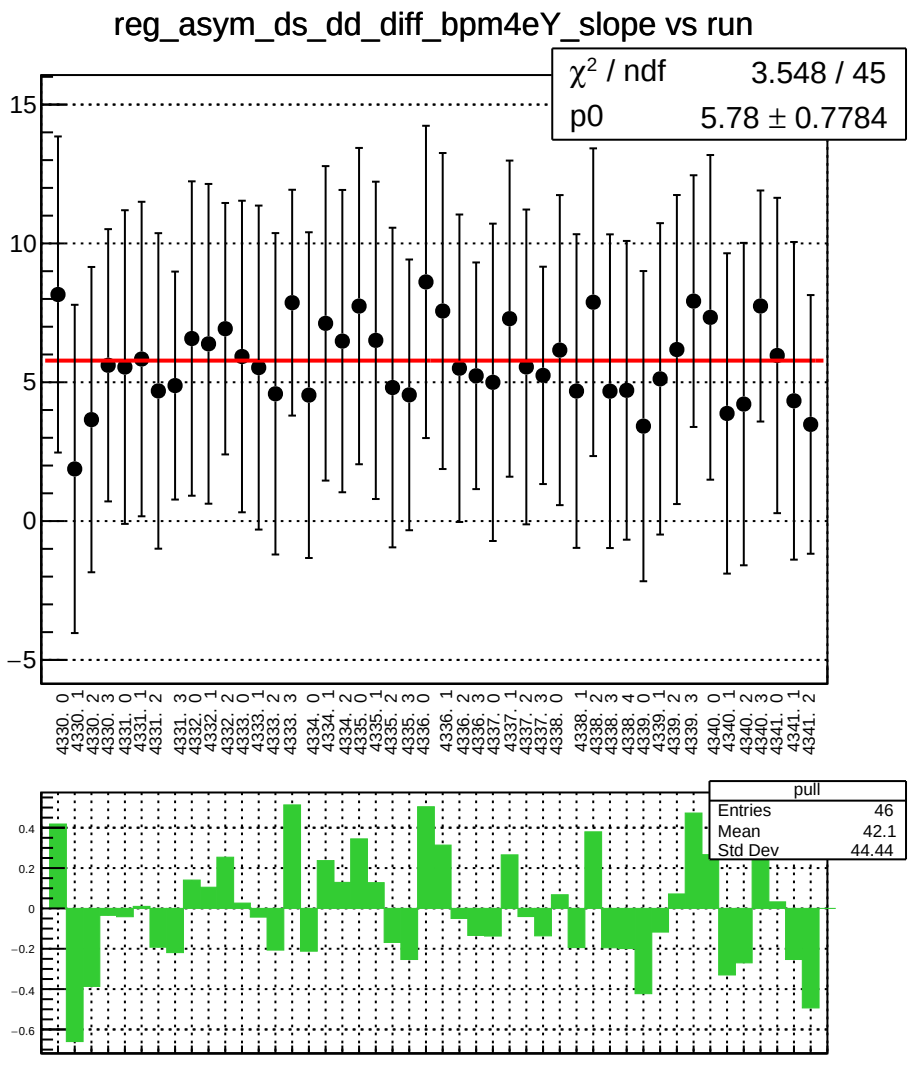

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.655 / 45
p0 28.18 ± 0.6552
pull
Entries 46
Mean −220.7
Std Dev 246.5

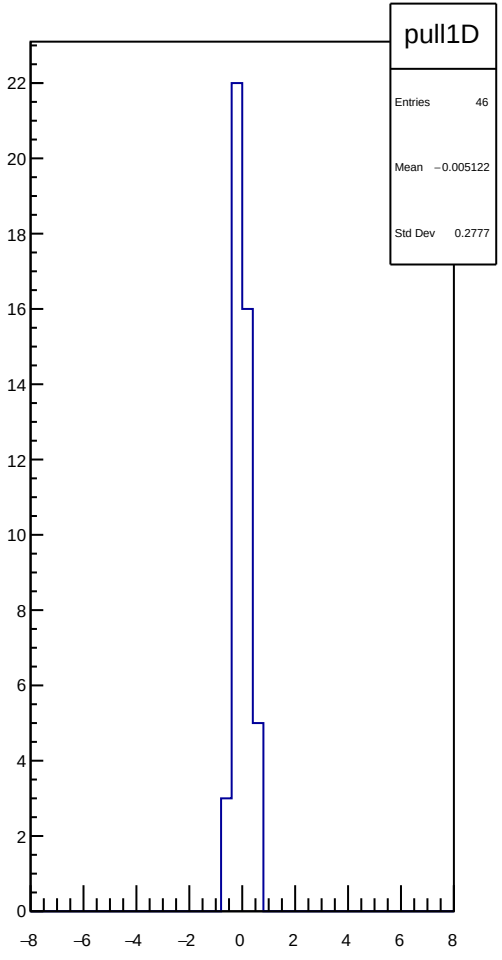

pull1D
Entries 46
Mean −0.003671
Std Dev 0.3181

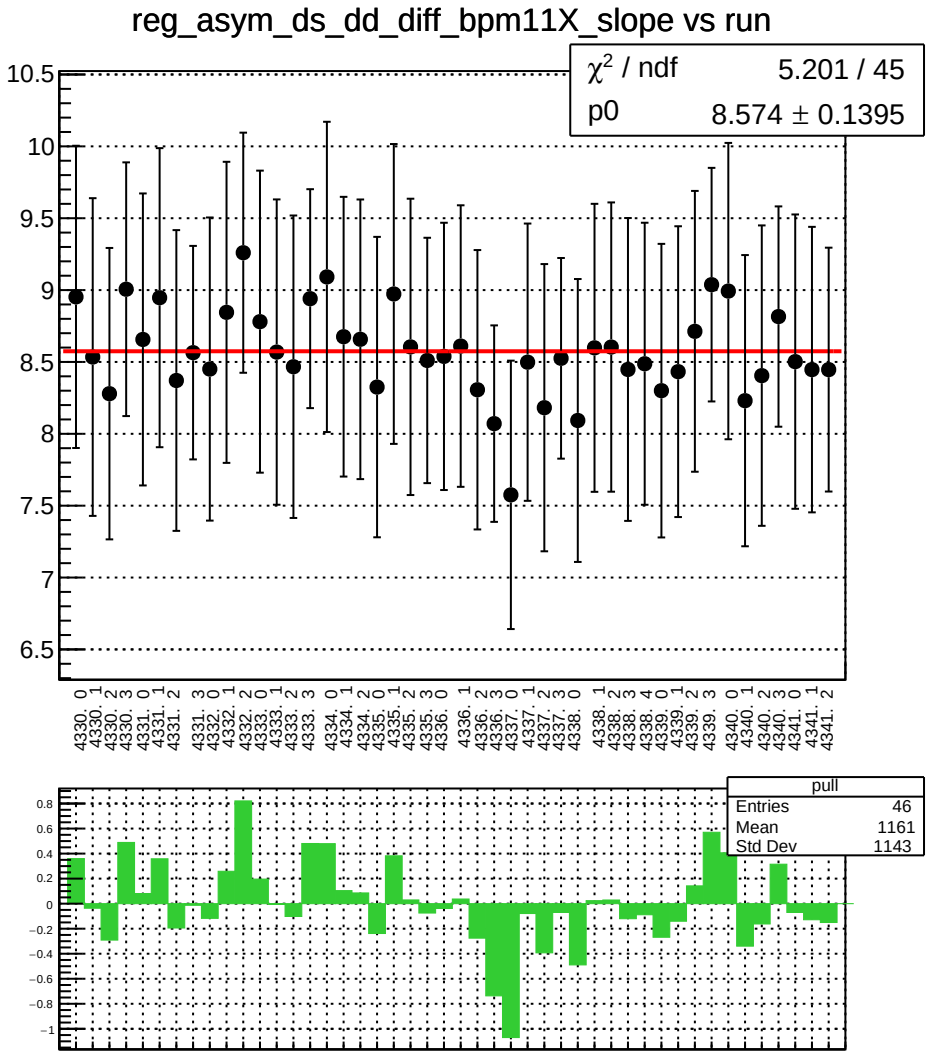

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.852 / 45
p0 −5.723 ± 0.7175
pull
Entries 46
Mean 5.037
Std Dev 13

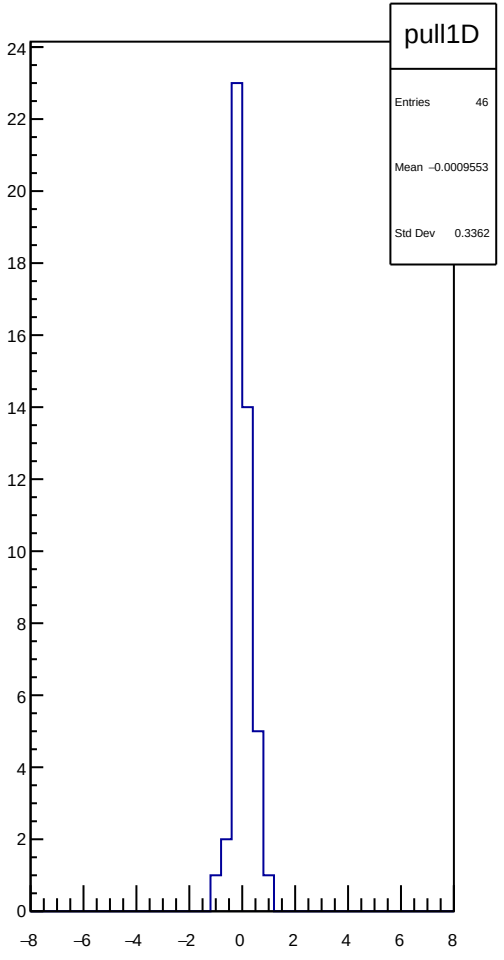

pull1D
Entries 46
Mean 0.005946
Std Dev 0.2893

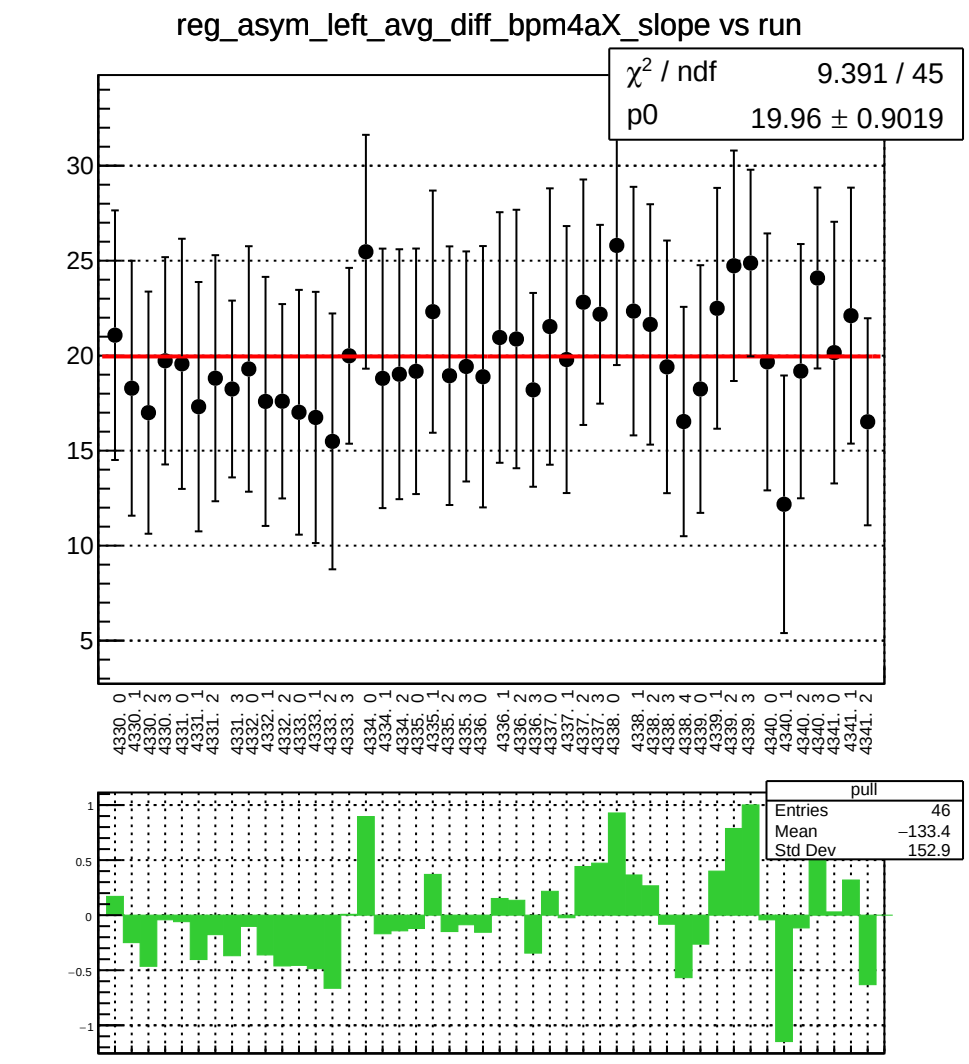

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.387 / 45
p0 −46.67 ± 0.1145
−45.5
−46
−46.5
−47
−47.5
−48
−48.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −64.88
Std Dev 82.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 46
Mean −0.007901
Std Dev 0.3087
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

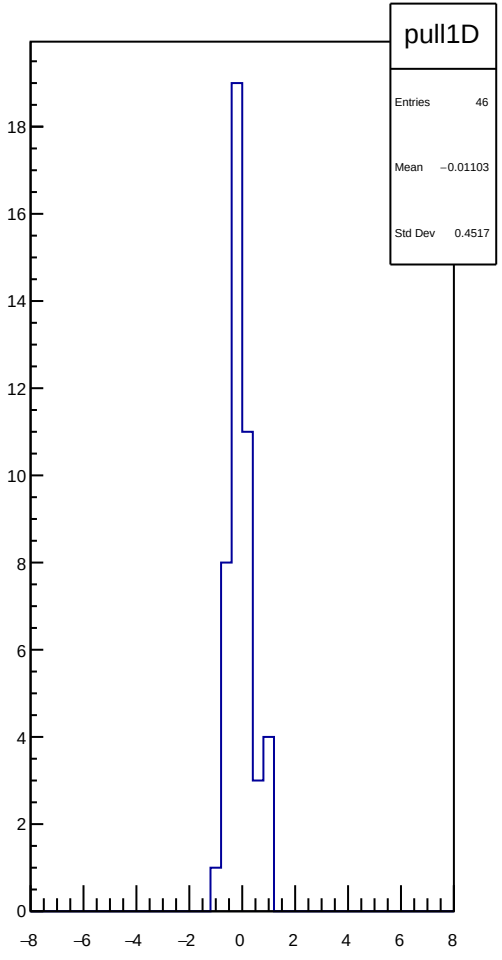

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.548 / 45
p0 5.78 ± 0.7784
15
10
5
0
−5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 42.1
Std Dev 44.44
0.4
0.2
0
−0.2
−0.4
−0.6

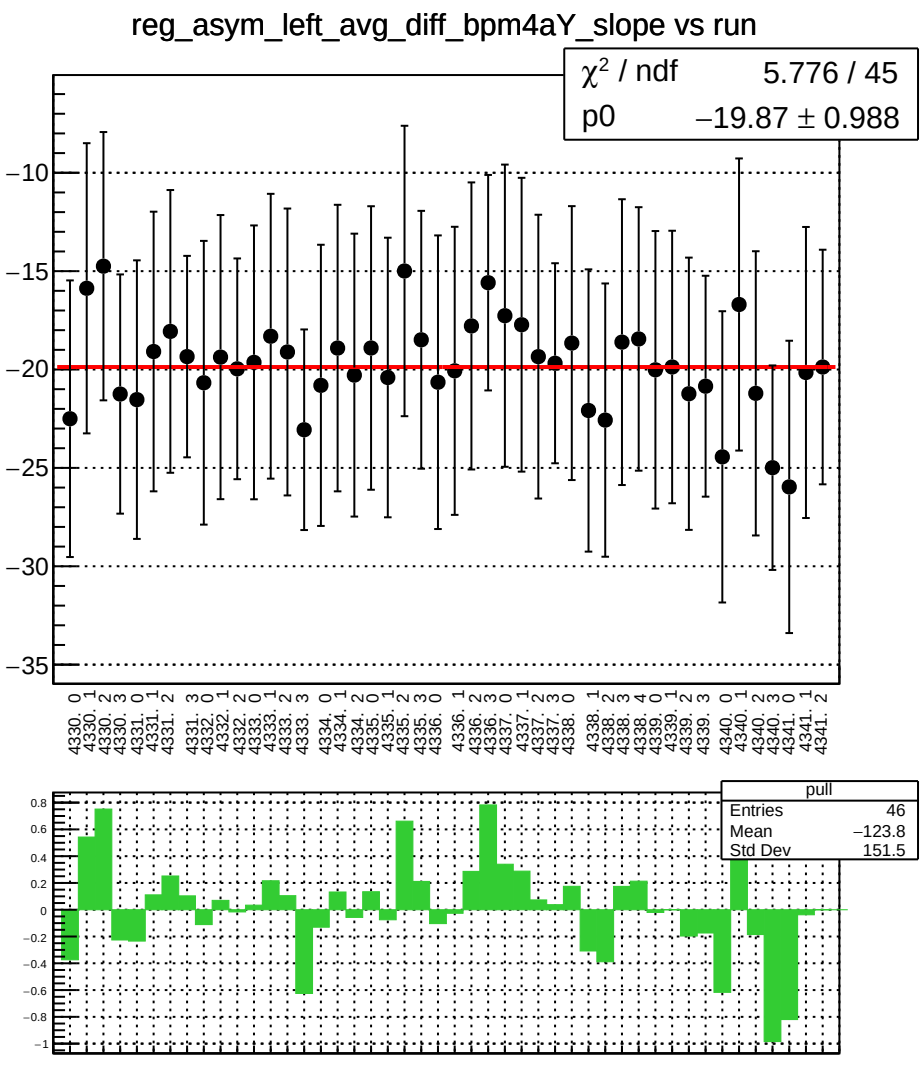

pull1D
Entries 46
Mean −0.005122
Std Dev 0.2777
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

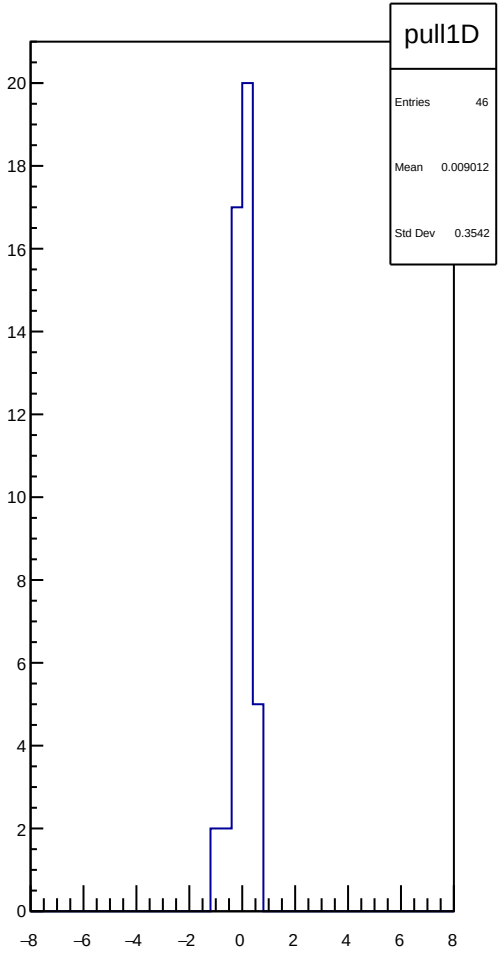

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 5.201 / 45
p0 8.574 ± 0.1395
pull
Entries 46
Mean 1161
Std Dev 1143

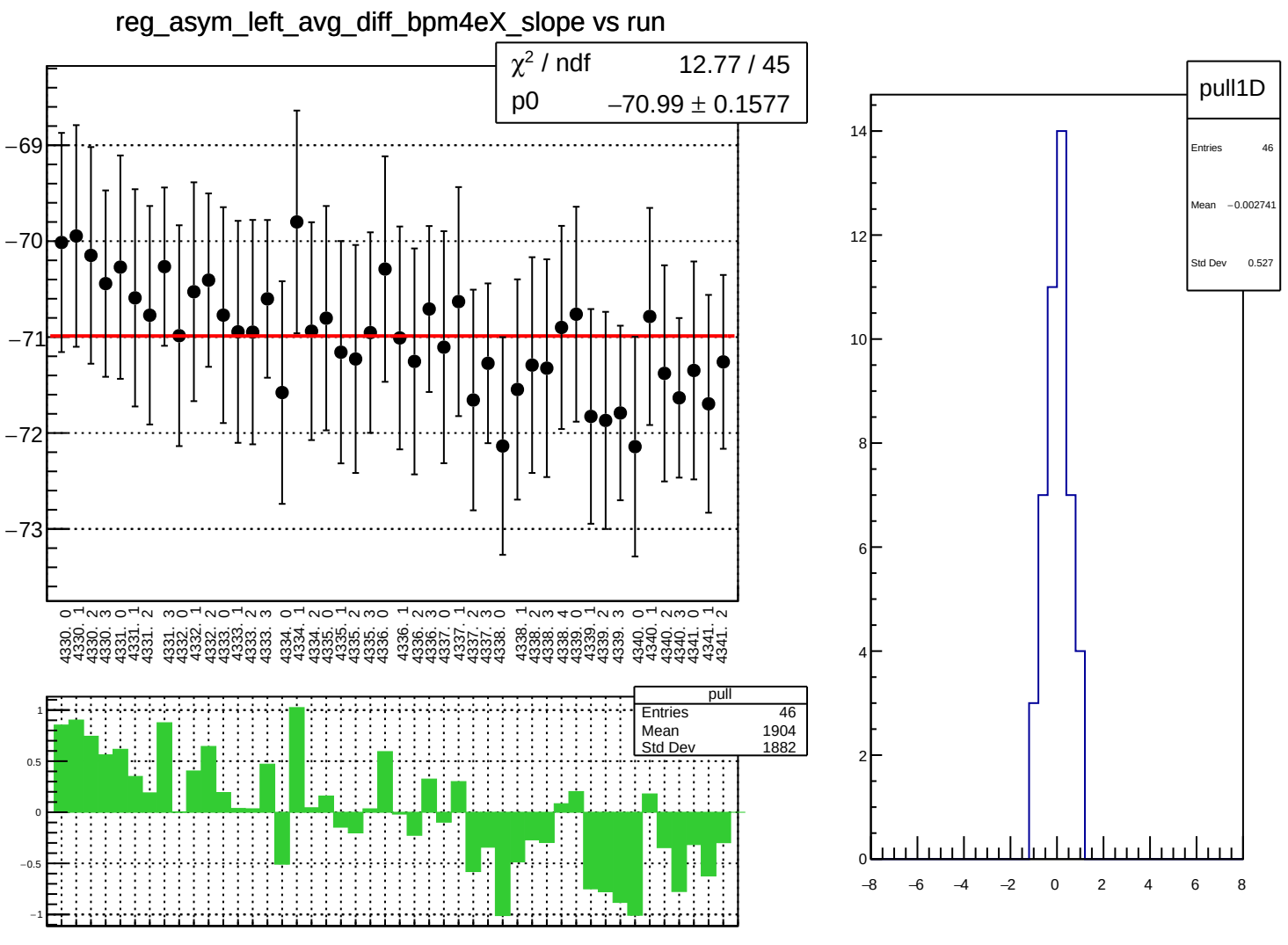

pull1D
Entries 46
Mean −0.0009553
Std Dev 0.3362

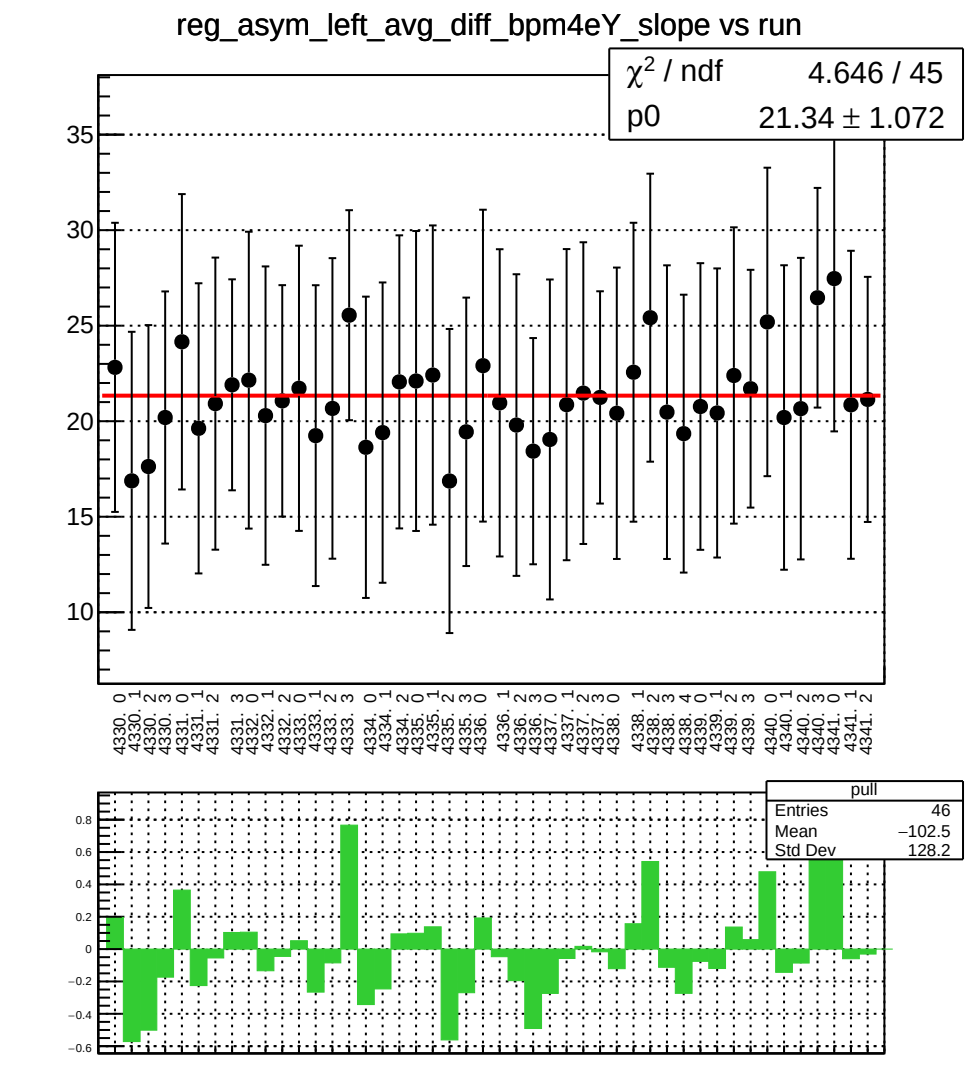

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.391 / 45
p0 19.96 ± 0.9019
pull
Entries 46
Mean −133.4
Std Dev 152.9

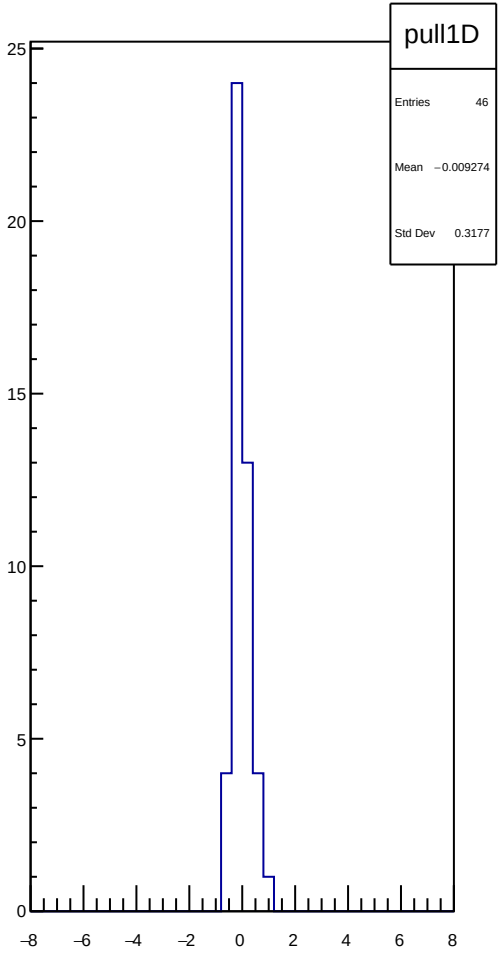

pull1D
Entries 46
Mean −0.01103
Std Dev 0.4517

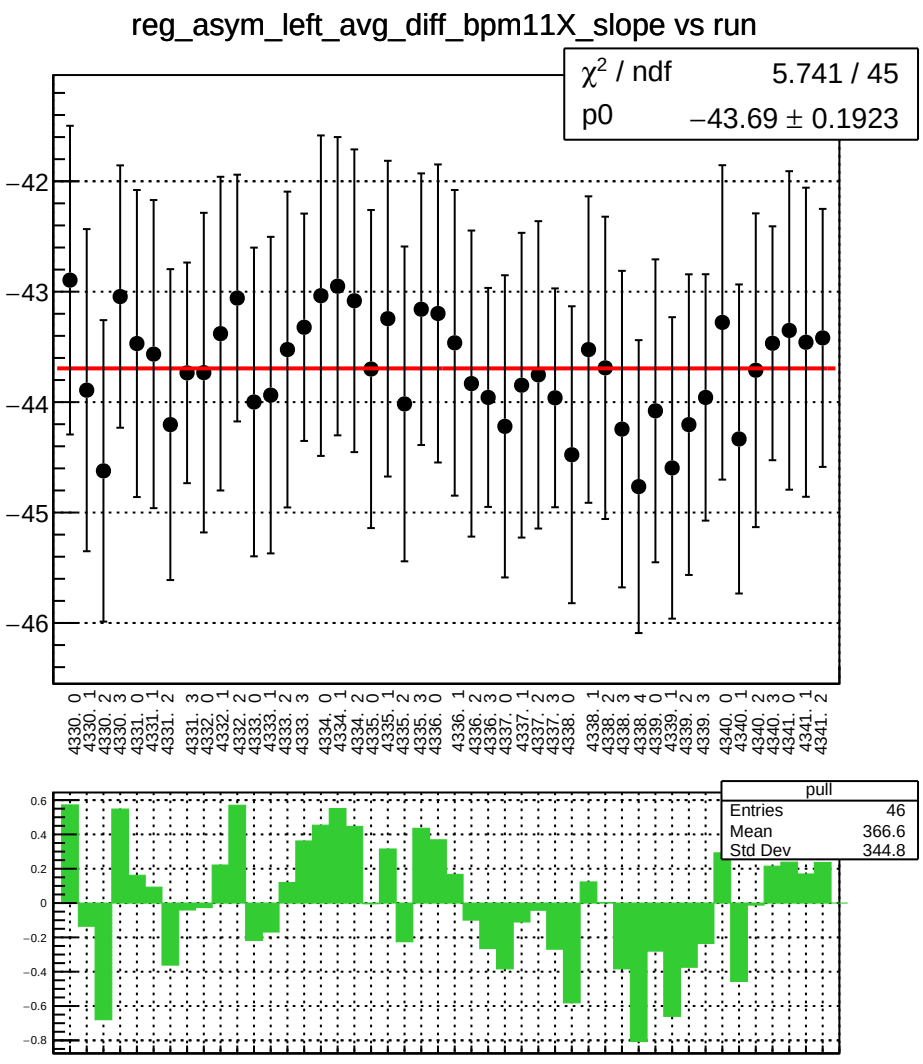

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.776 / 45
p0 −19.87 ± 0.988
pull
Entries 46
Mean −123.8
Std Dev 151.5

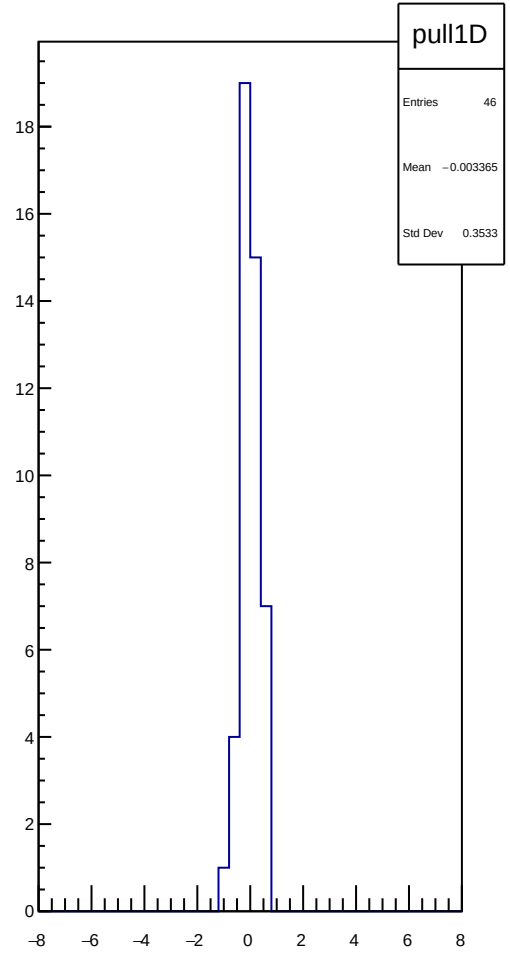

pull1D
Entries 46
Mean 0.009012
Std Dev 0.3542

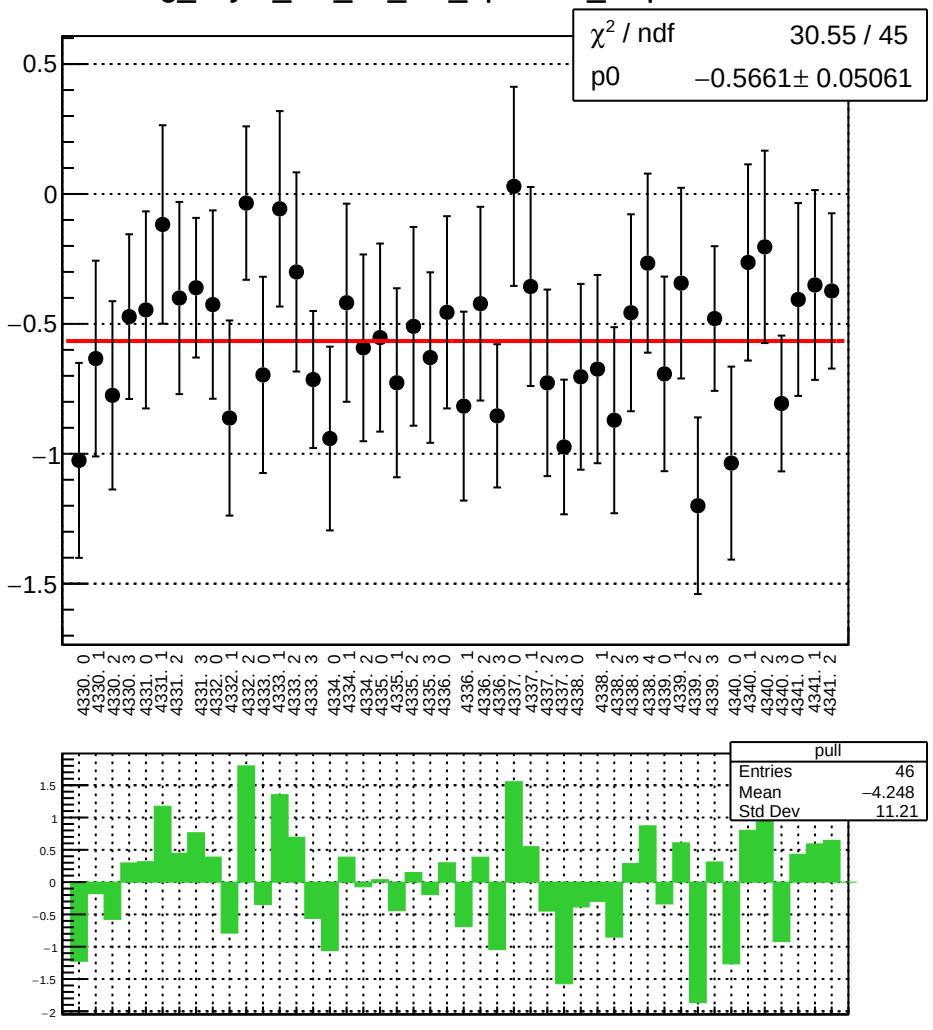

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.77 / 45
p0 −70.99 ± 0.1577
pull
Entries 46
Mean 1904
Std Dev 1882
pull1D
Entries 46
Mean −0.002741
Std Dev 0.527


reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.646 / 45
p0 21.34 ± 1.072
pull
Entries 46
Mean −102.5
Std Dev 128.2


pull1D
Entries 46
Mean −0.009274
Std Dev 0.3177


reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 5.741 / 45
p0 −43.69 ± 0.1923
pull
Entries 46
Mean 366.6
Std Dev 344.8


pull1D
Entries 46
Mean −0.003365
Std Dev 0.3533


reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.55 / 45
p0 −0.5661± 0.05061
0.5
0
−0.5
−1
−1.5
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
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4335. 3
4336. 0
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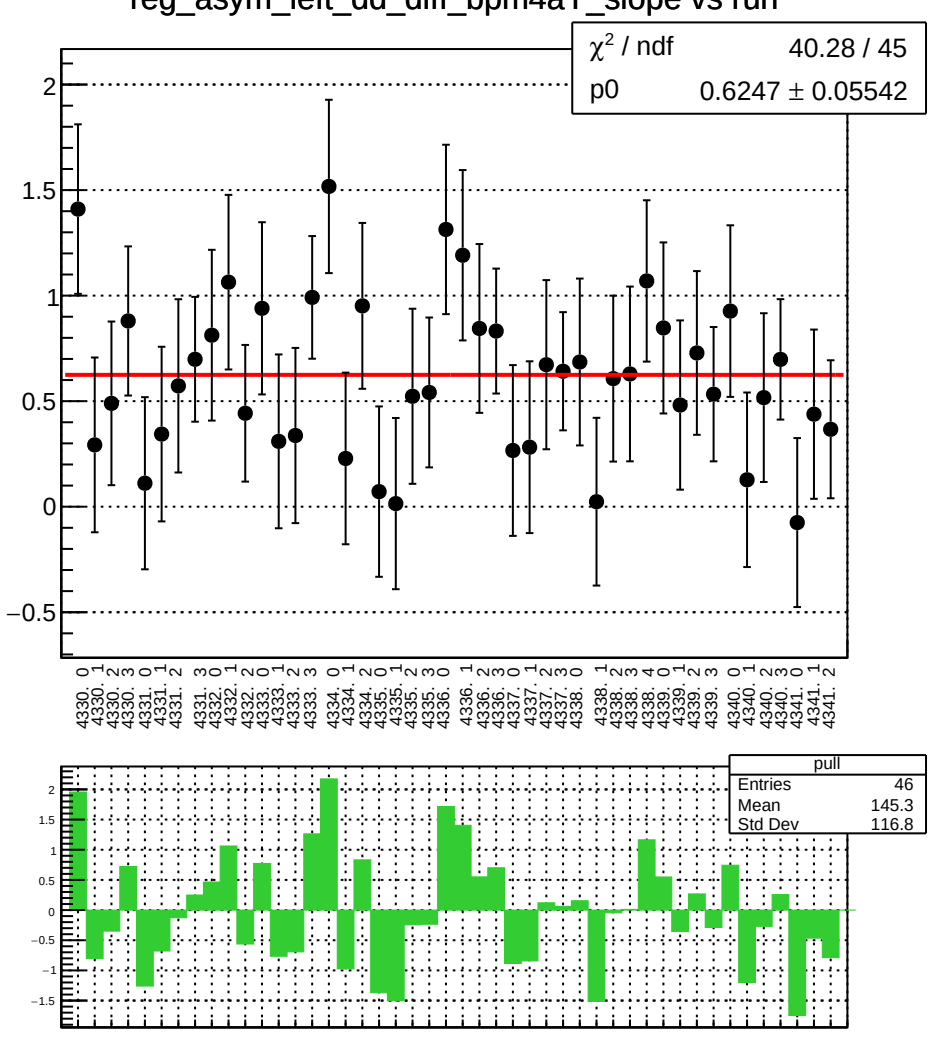
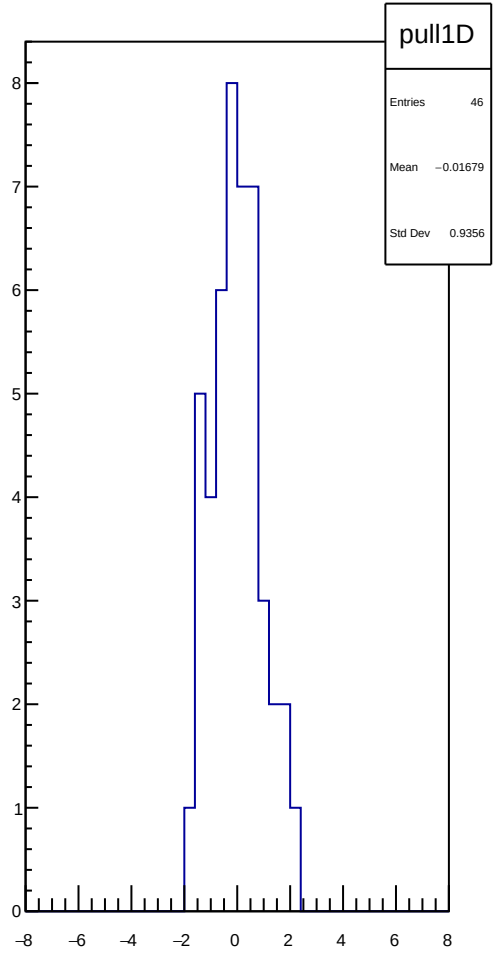
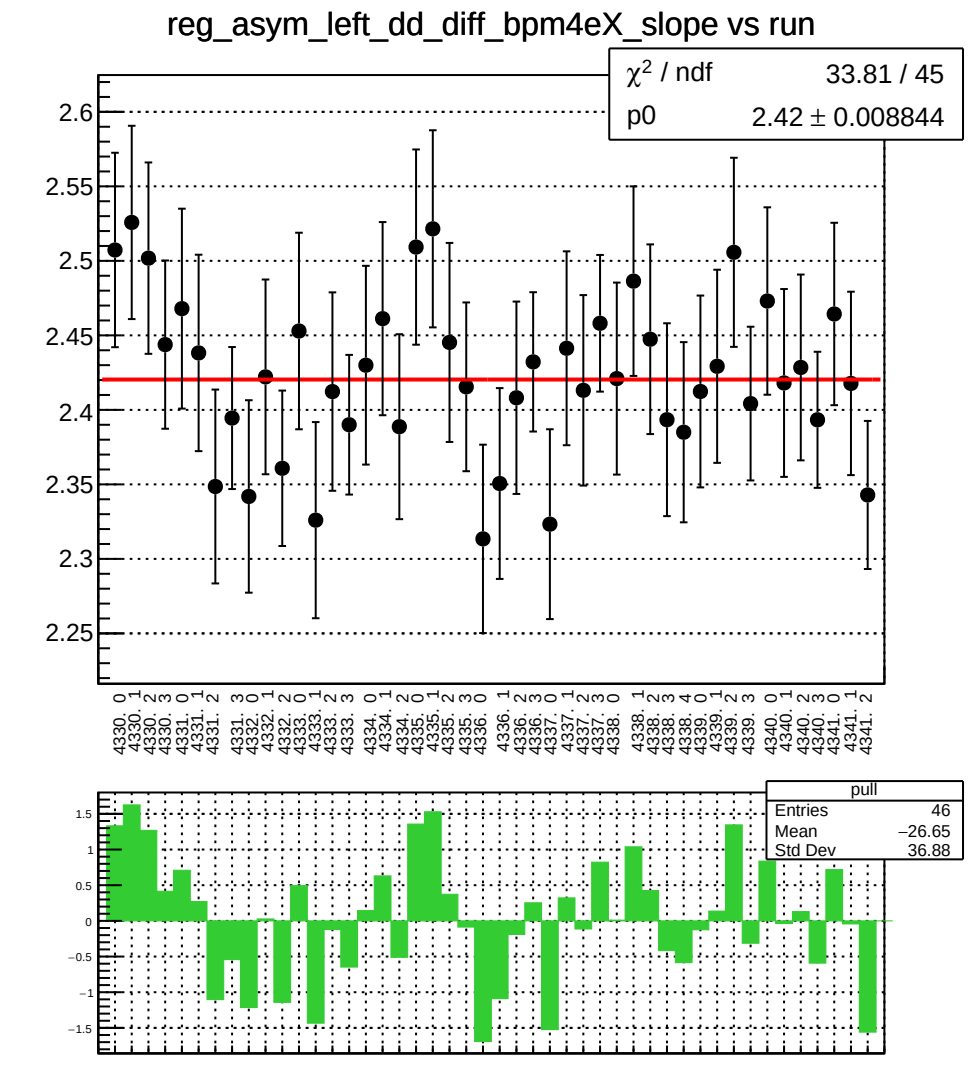
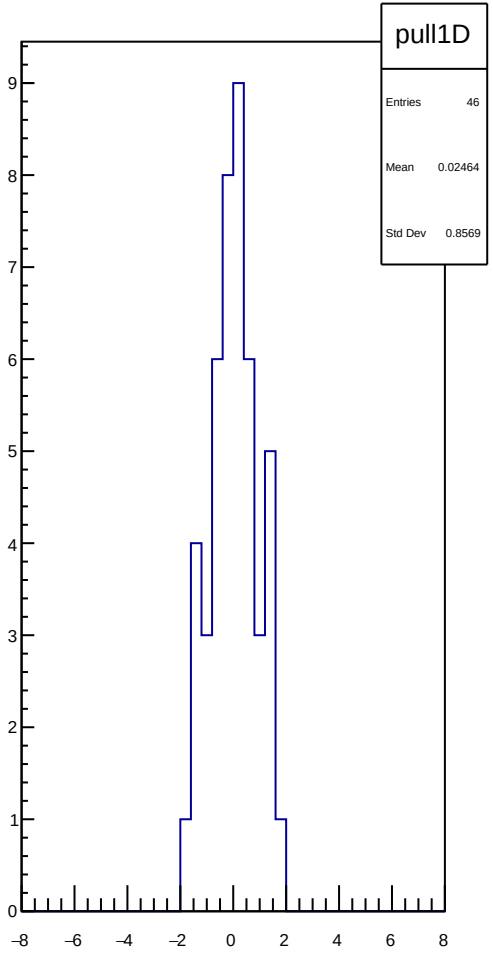
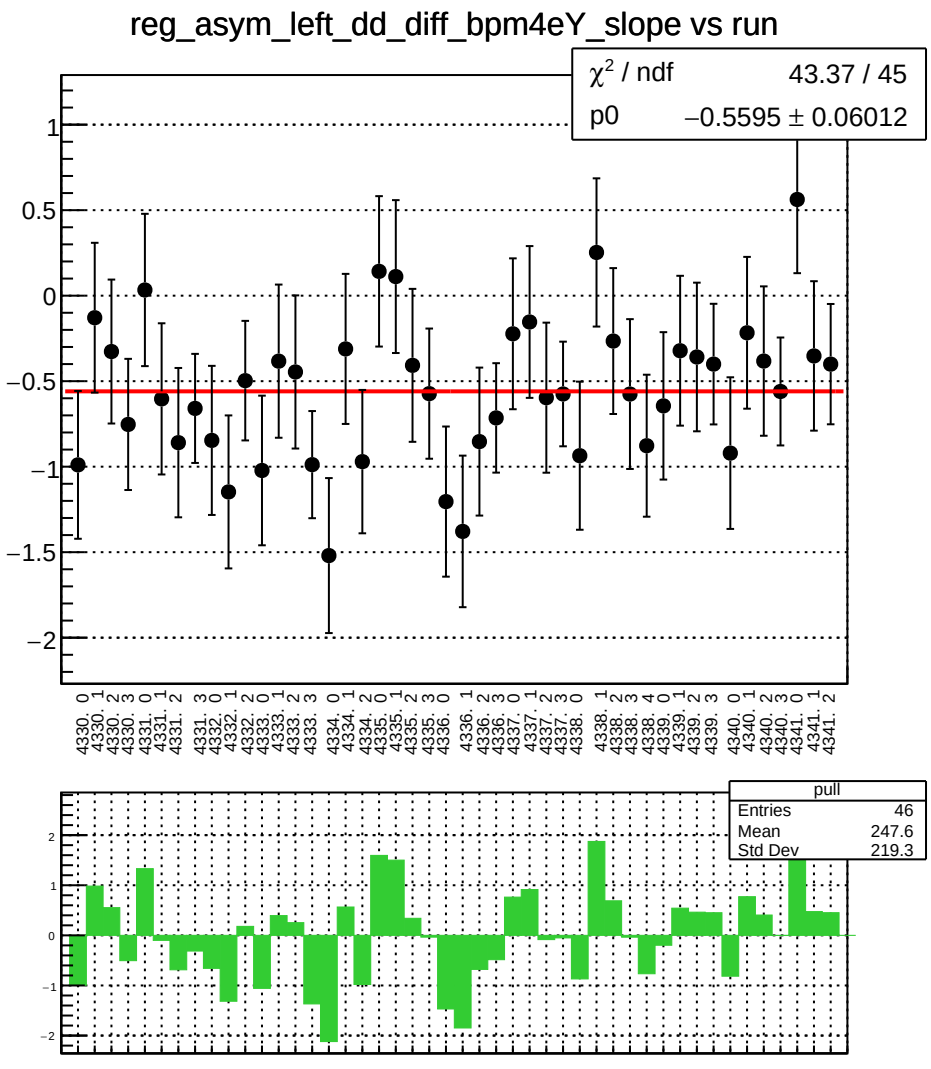
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −4.248
Std Dev 11.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02169
Std Dev 0.8147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

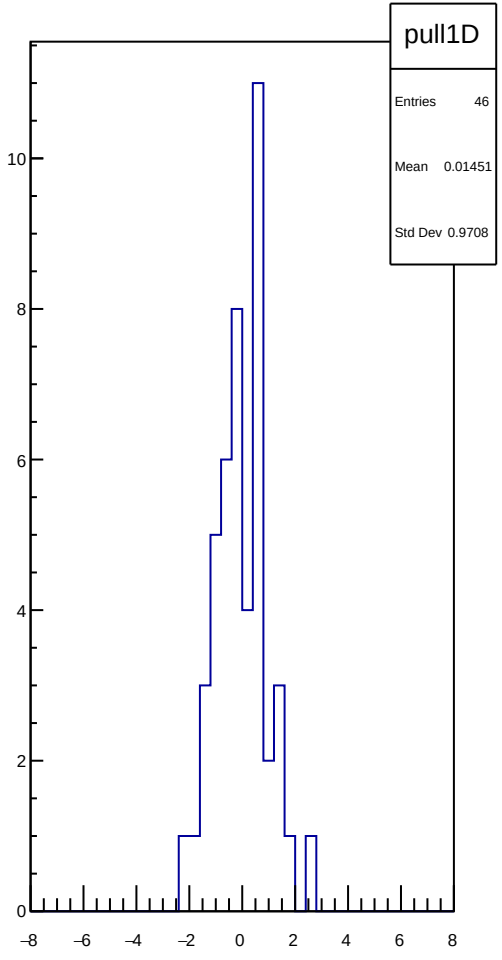

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.28 / 45
p0 0.6247 ± 0.05542
pull
Entries 46
Mean 145.3
Std Dev 116.8

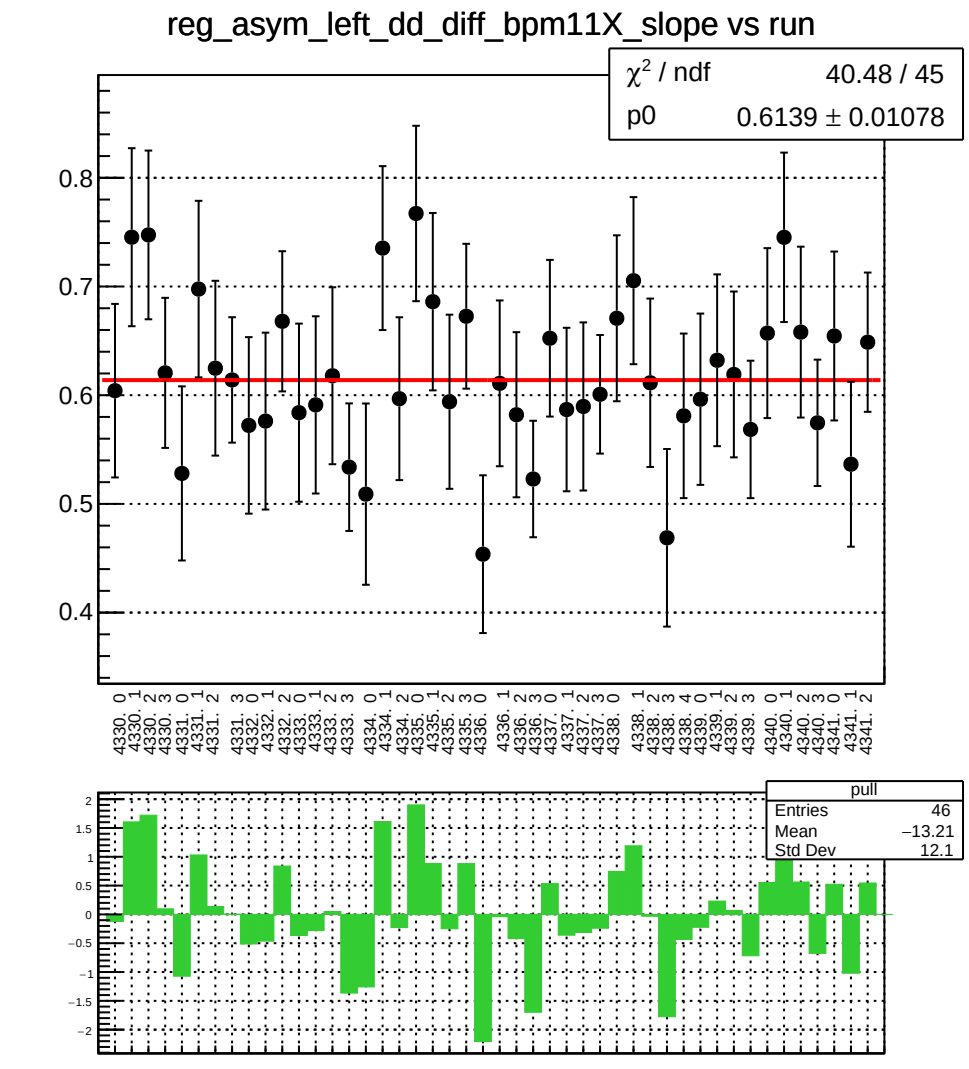

pull1D
Entries 46
Mean −0.01679
Std Dev 0.9356

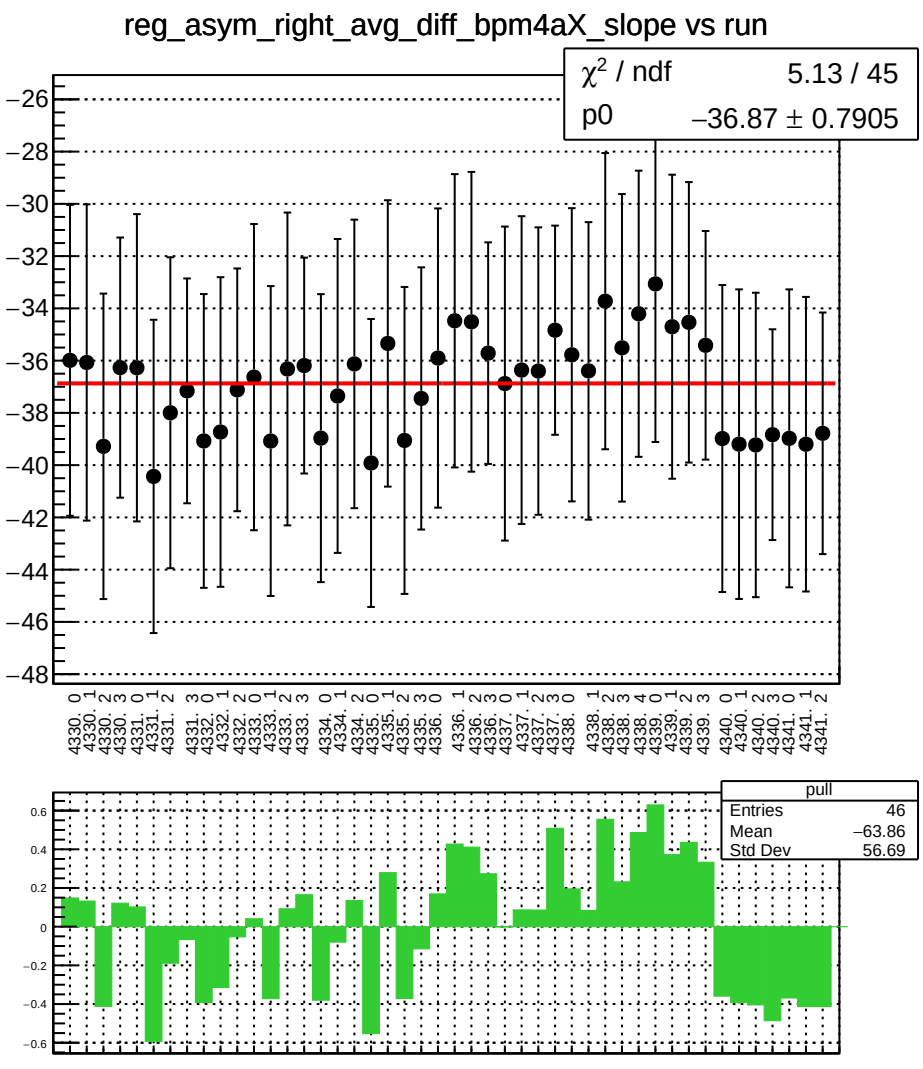

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.81 / 45
p0 2.42 ± 0.008844
pull
Entries 46
Mean −26.65
Std Dev 36.88

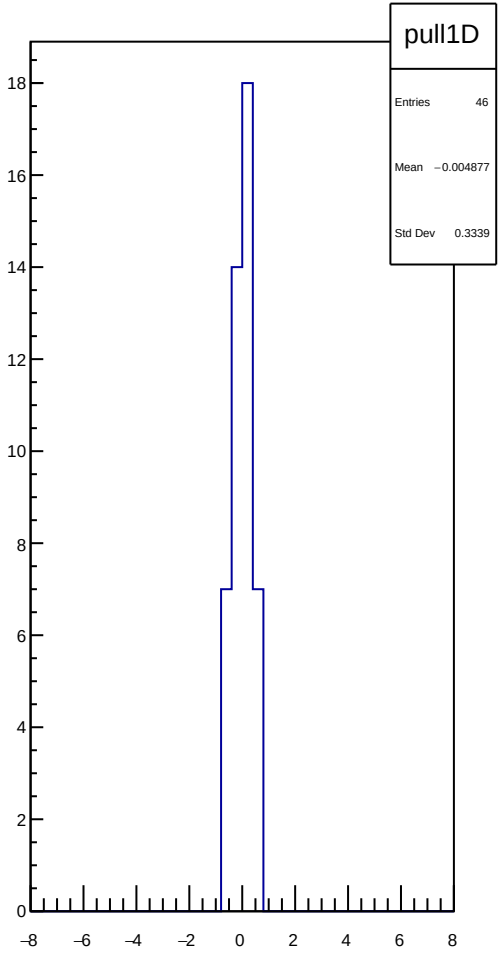

pull1D
Entries 46
Mean 0.02464
Std Dev 0.8569

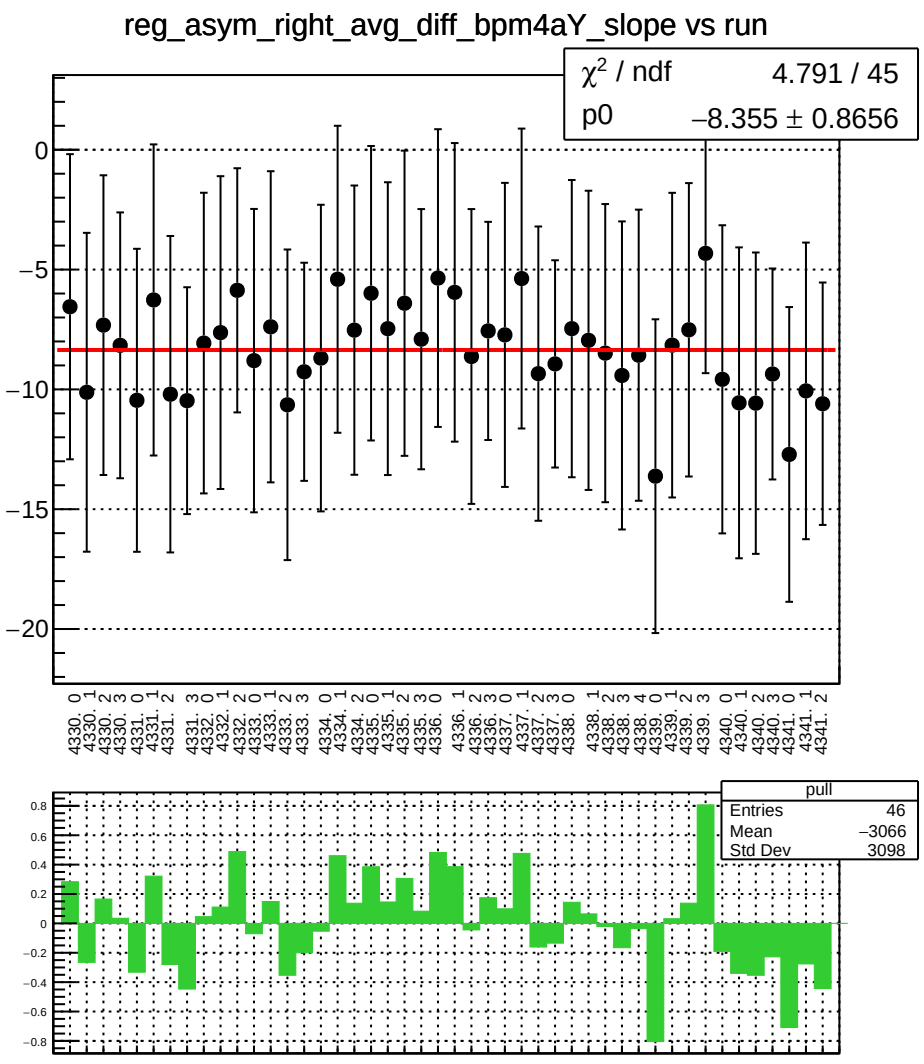

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.37 / 45
p0 −0.5595 ± 0.06012
pull
Entries 46
Mean 247.6
Std Dev 219.3

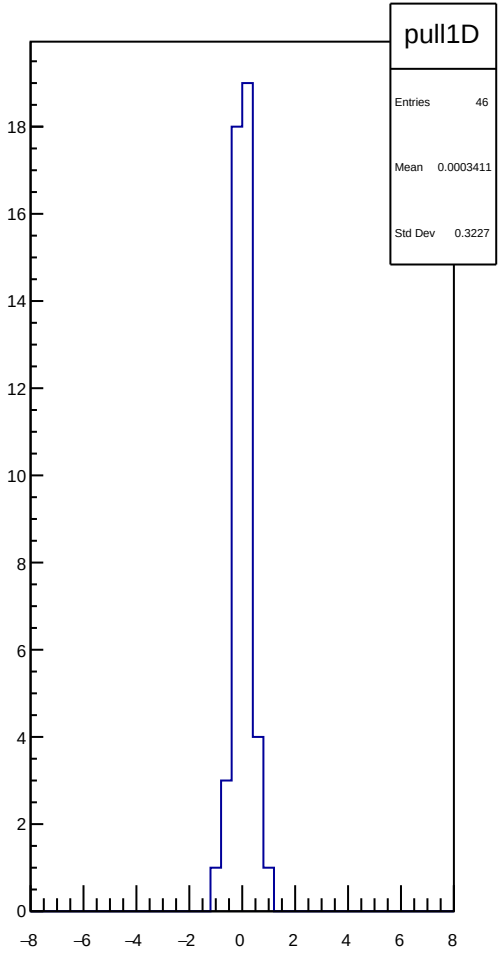

pull1D
Entries 46
Mean 0.01451
Std Dev 0.9708

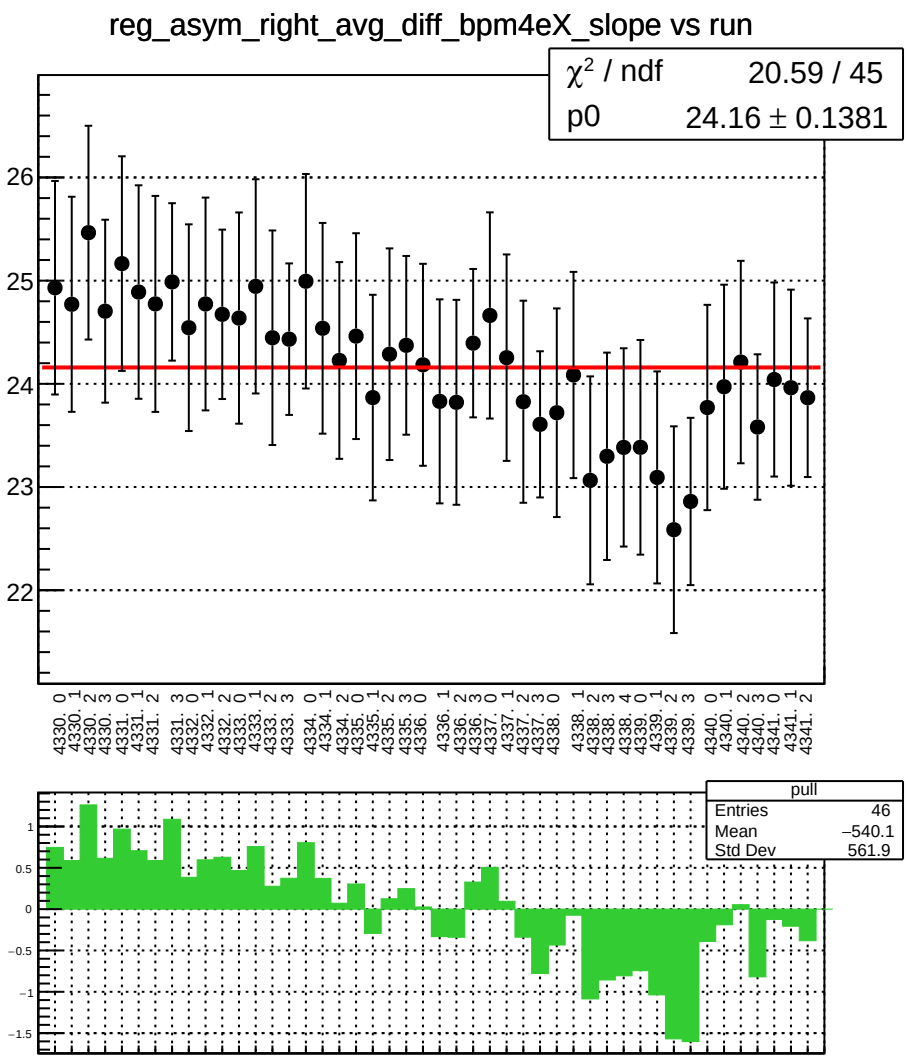

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 40.48 / 45
p0 0.6139 ± 0.01078
0.8
0.7
0.6
0.5
0.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −13.21
Std Dev 12.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.02887
Std Dev 0.9376
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

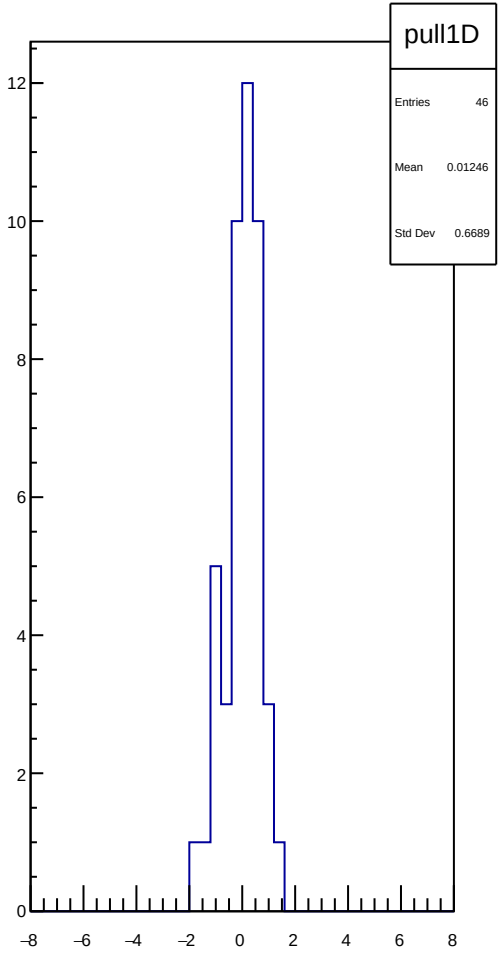

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.13 / 45
p0 −36.87 ± 0.7905
pull
Entries 46
Mean −63.86
Std Dev 56.69

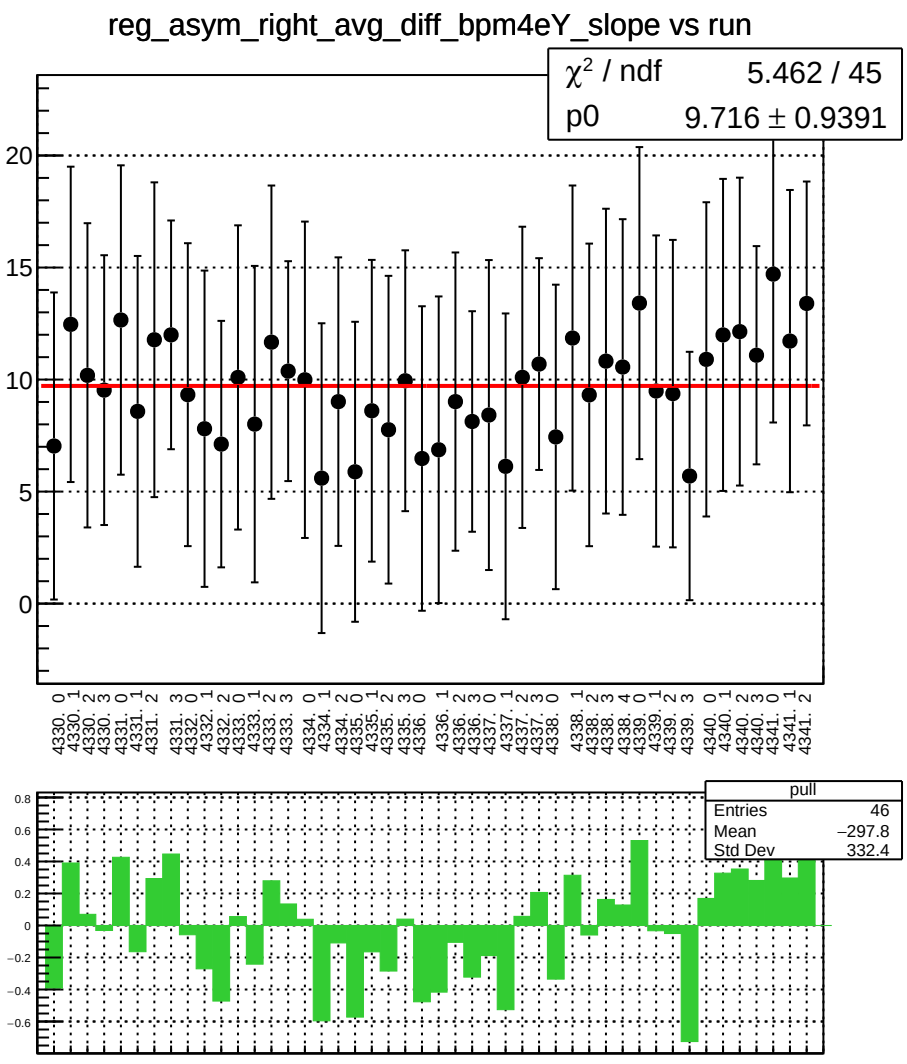

pull1D
Entries 46
Mean −0.004877
Std Dev 0.3339

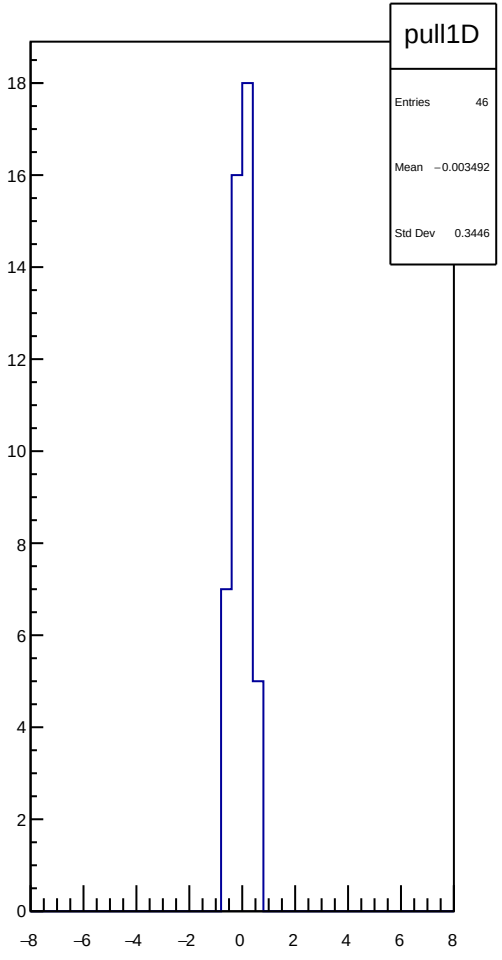

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.791 / 45
p0 −8.355 ± 0.8656
pull
Entries 46
Mean −3066
Std Dev 3098

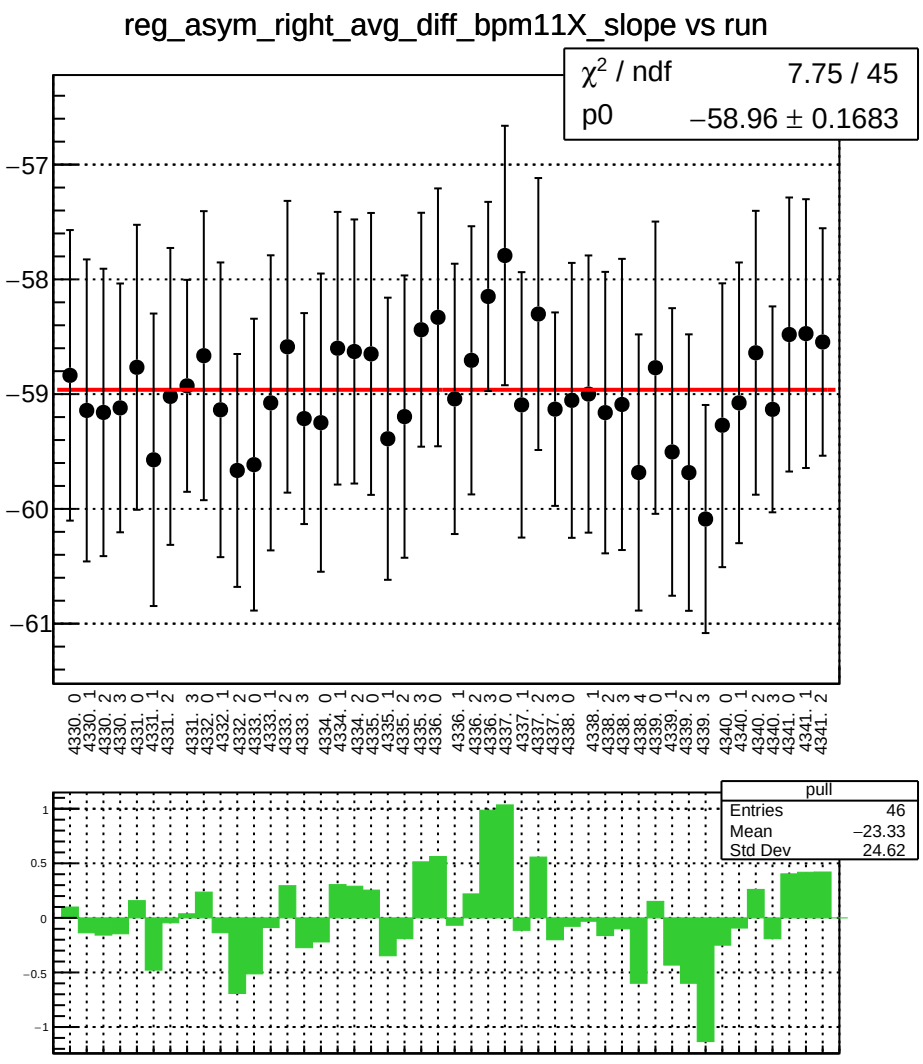

pull1D
Entries 46
Mean 0.0003411
Std Dev 0.3227

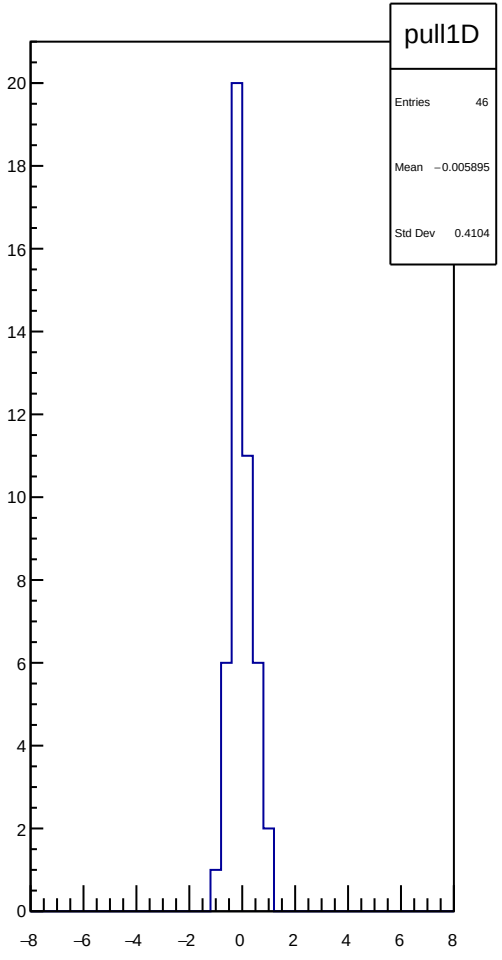

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.59 / 45
p0 24.16 ± 0.1381
pull
Entries 46
Mean −540.1
Std Dev 561.9

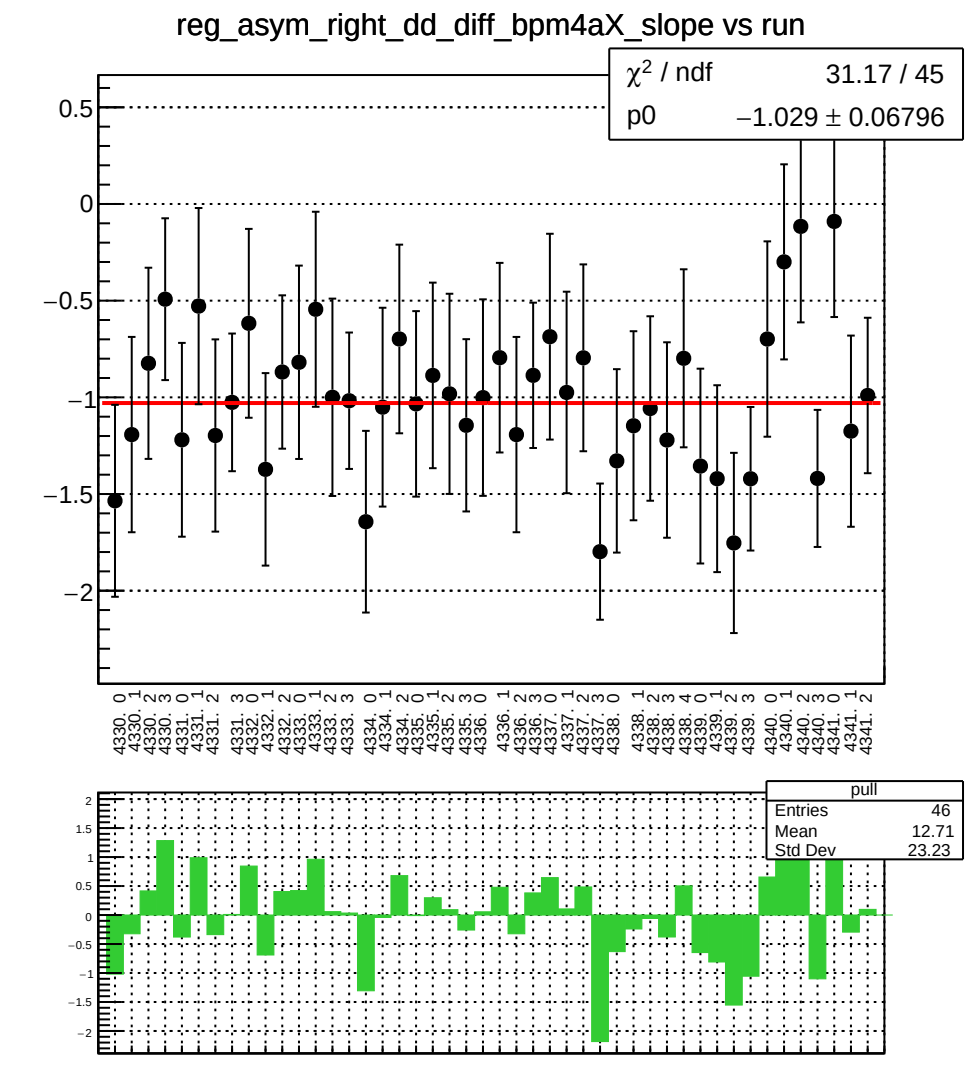

pull1D
Entries 46
Mean 0.01246
Std Dev 0.6689

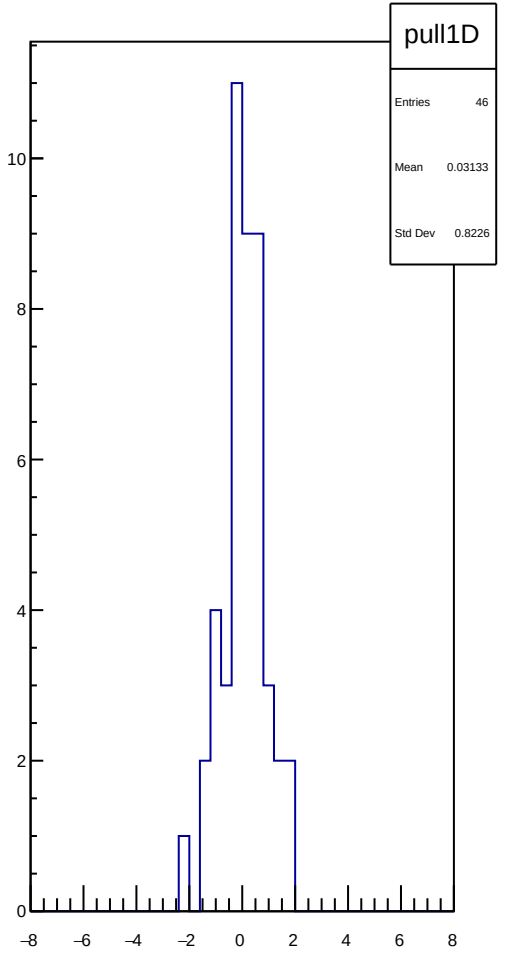

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.462 / 45
p0 9.716 ± 0.9391
pull
Entries 46
Mean −297.8
Std Dev 332.4

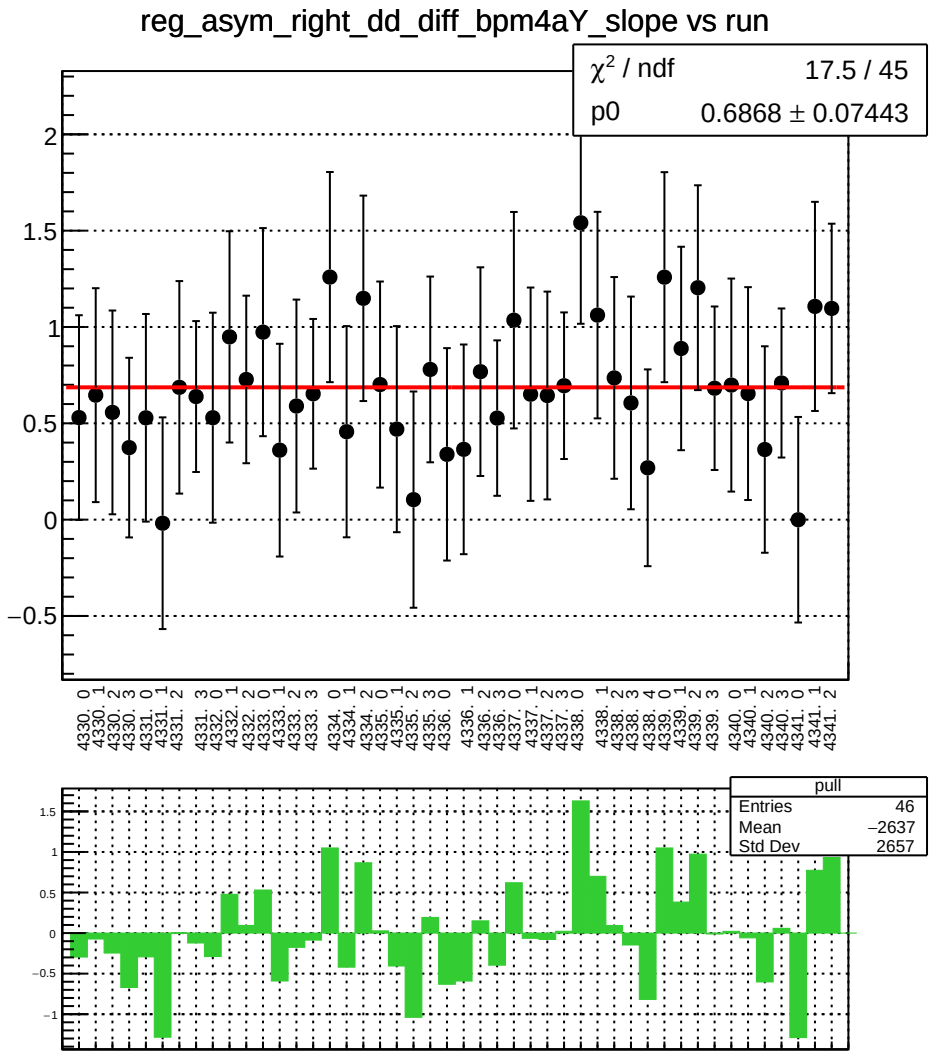

pull1D
Entries 46
Mean −0.003492
Std Dev 0.3446

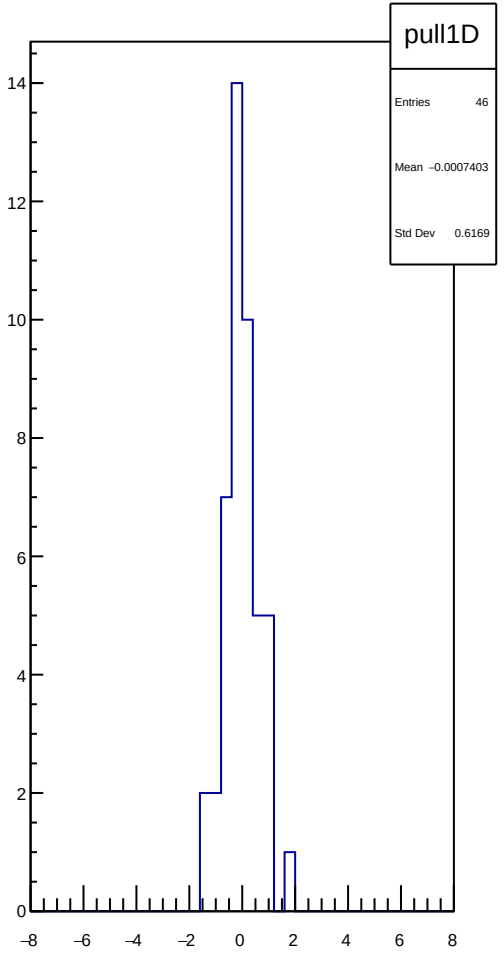

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 7.75 / 45
p0 −58.96 ± 0.1683
pull
Entries 46
Mean −23.33
Std Dev 24.62

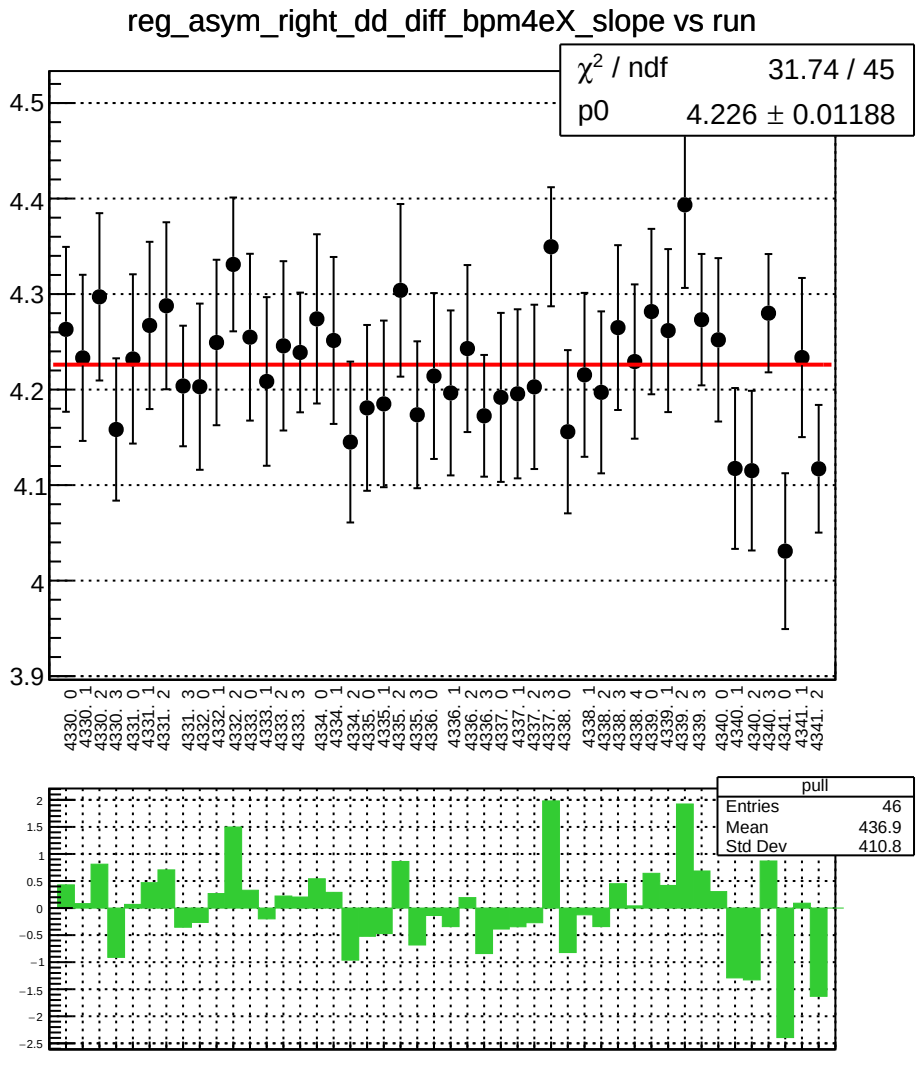

pull1D
Entries 46
Mean −0.005895
Std Dev 0.4104

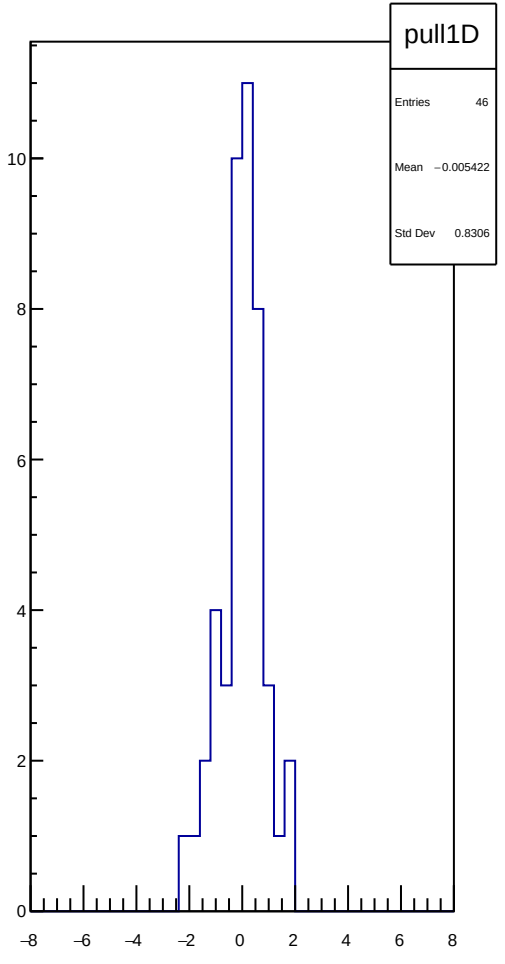

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.17 / 45
p0 −1.029 ± 0.06796
pull
Entries 46
Mean 12.71
Std Dev 23.23

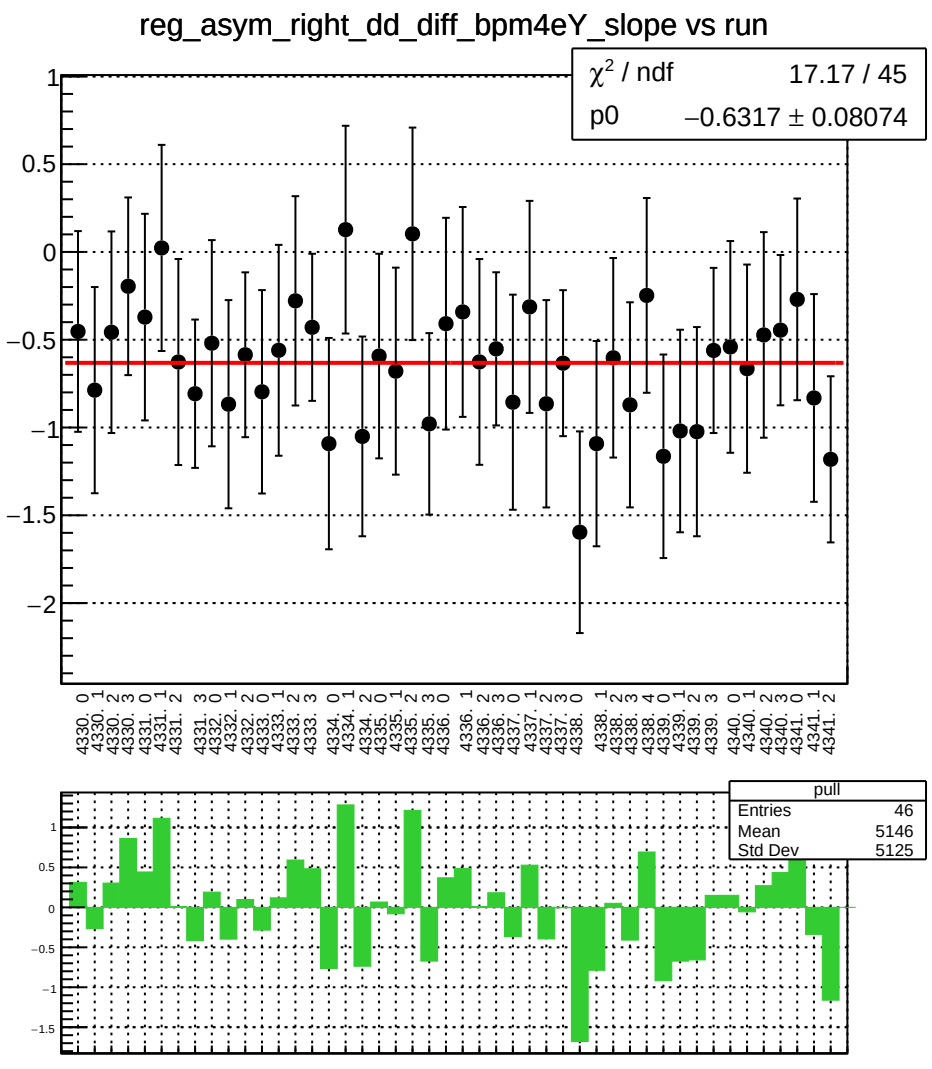

pull1D
Entries 46
Mean 0.03133
Std Dev 0.8226

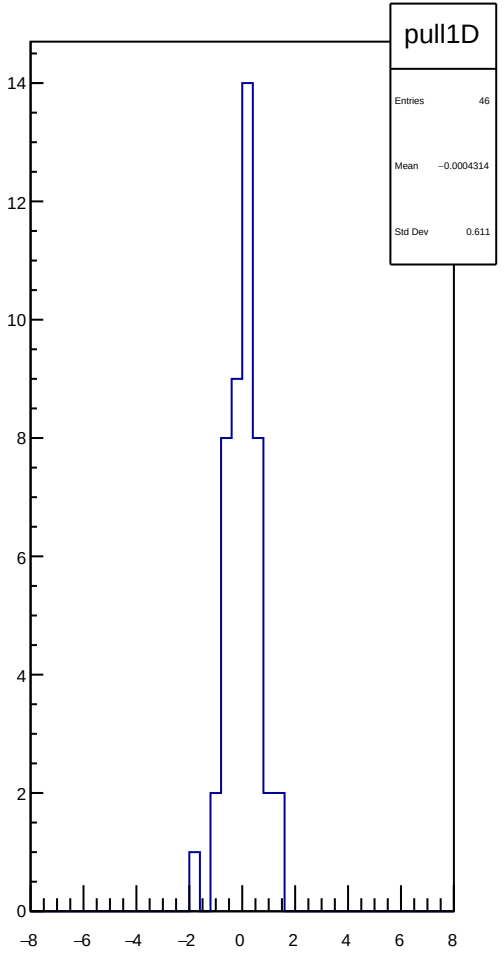

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.5 / 45
p0 0.6868 ± 0.07443
pull
Entries 46
Mean −2637
Std Dev 2657

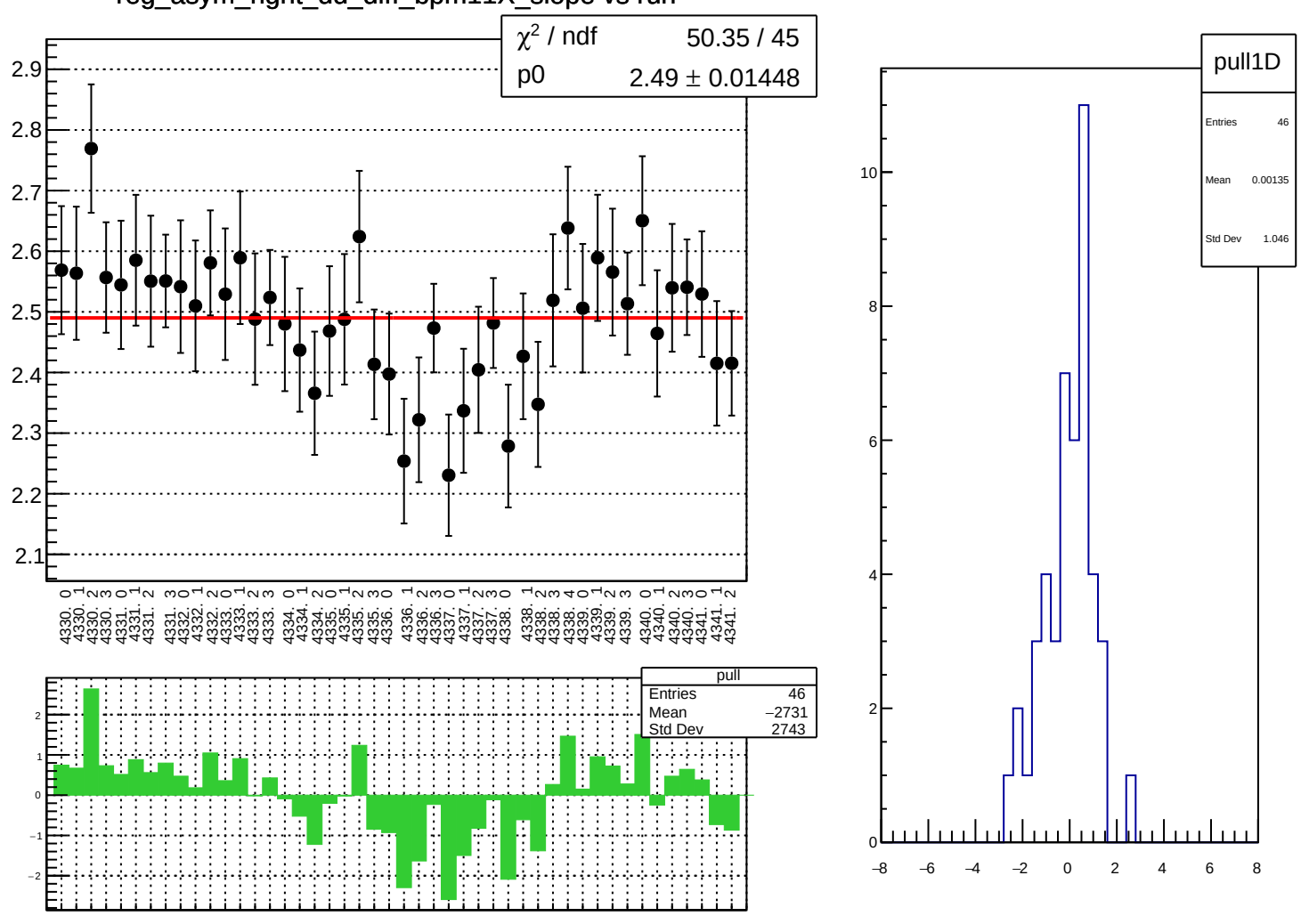

pull1D
Entries 46
Mean −0.0007403
Std Dev 0.6169

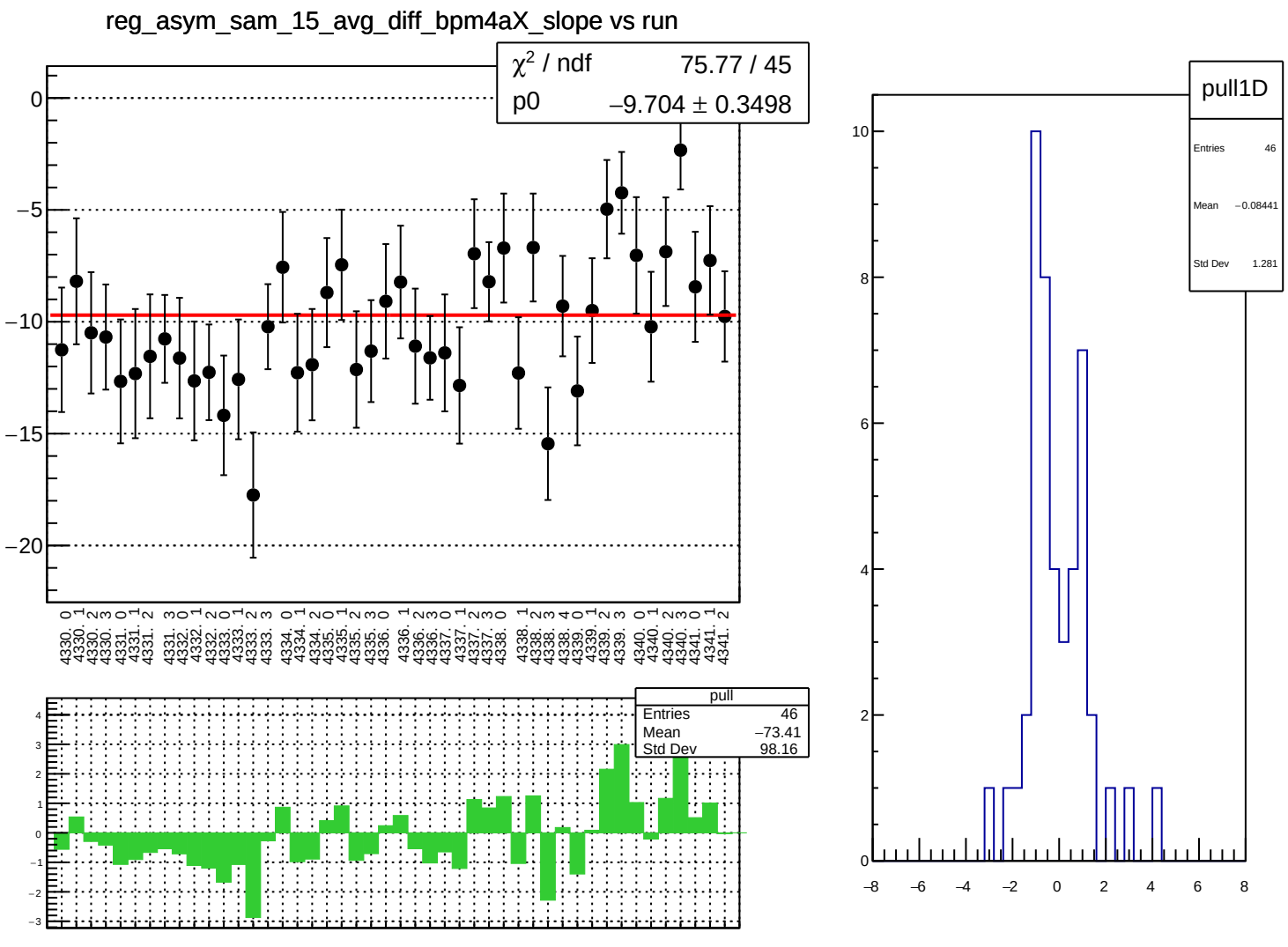

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.74 / 45
p0 4.226 ± 0.01188
pull
Entries 46
Mean 436.9
Std Dev 410.8

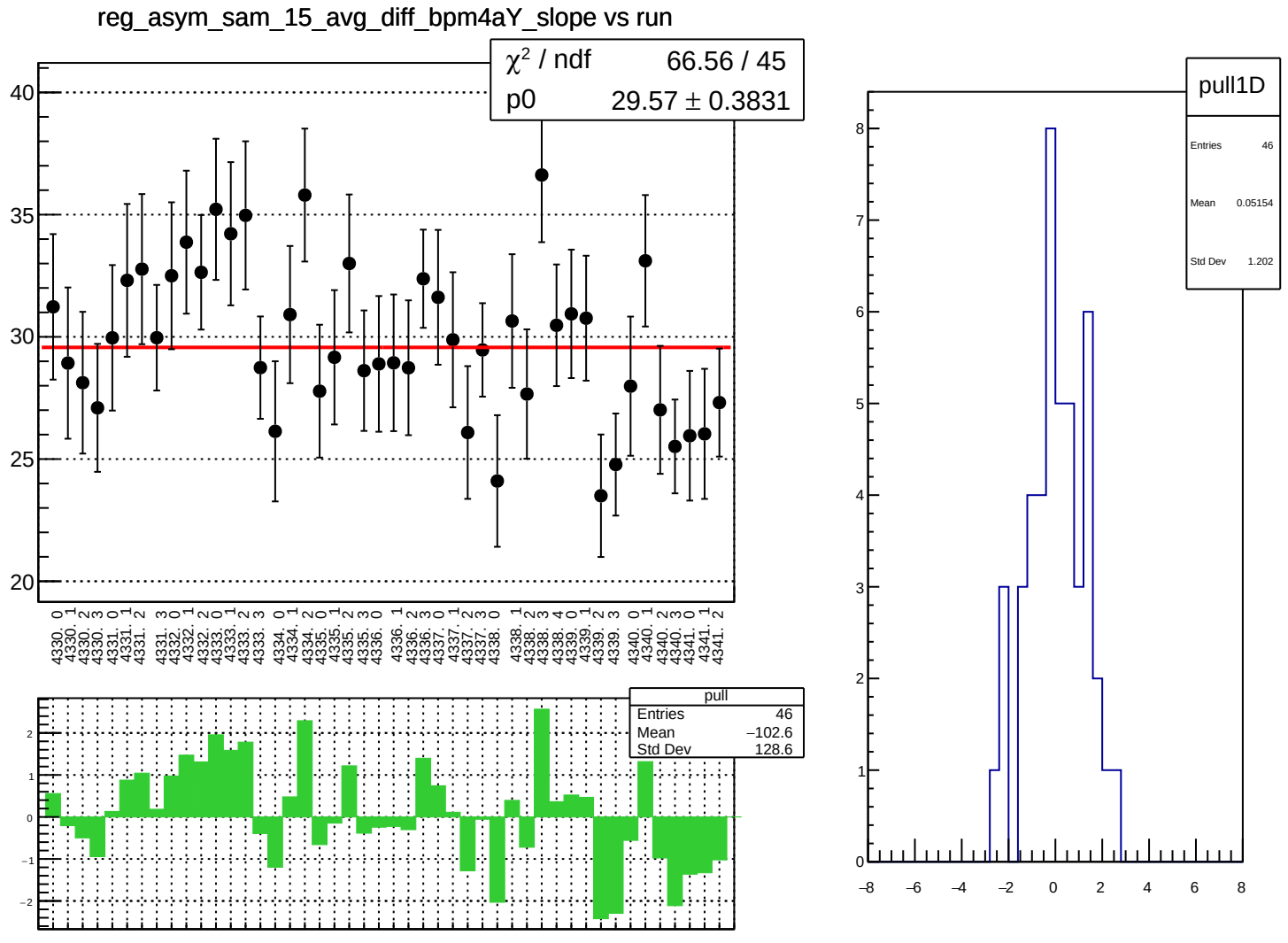

pull1D
Entries 46
Mean −0.005422
Std Dev 0.8306

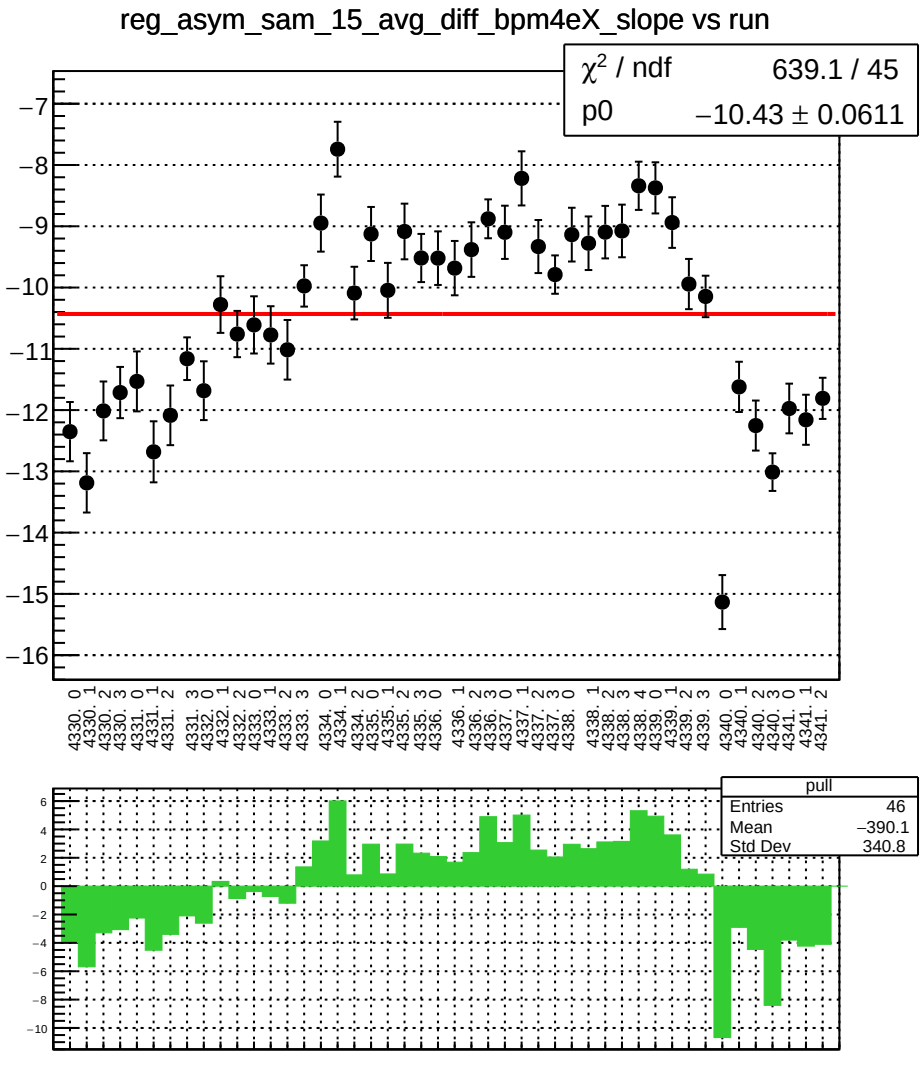

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.17 / 45
p0 −0.6317 ± 0.08074
pull
Entries 46
Mean 5146
Std Dev 5125

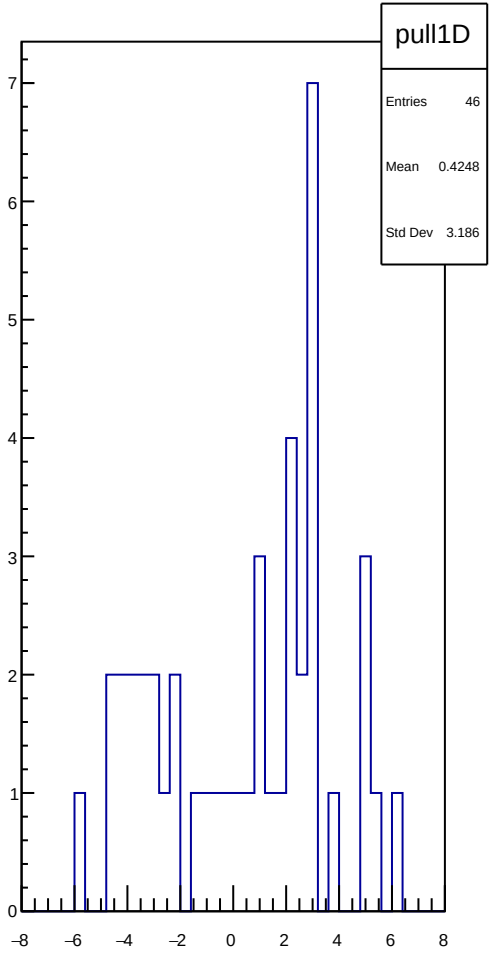

pull1D
Entries 46
Mean −0.0004314
Std Dev 0.611

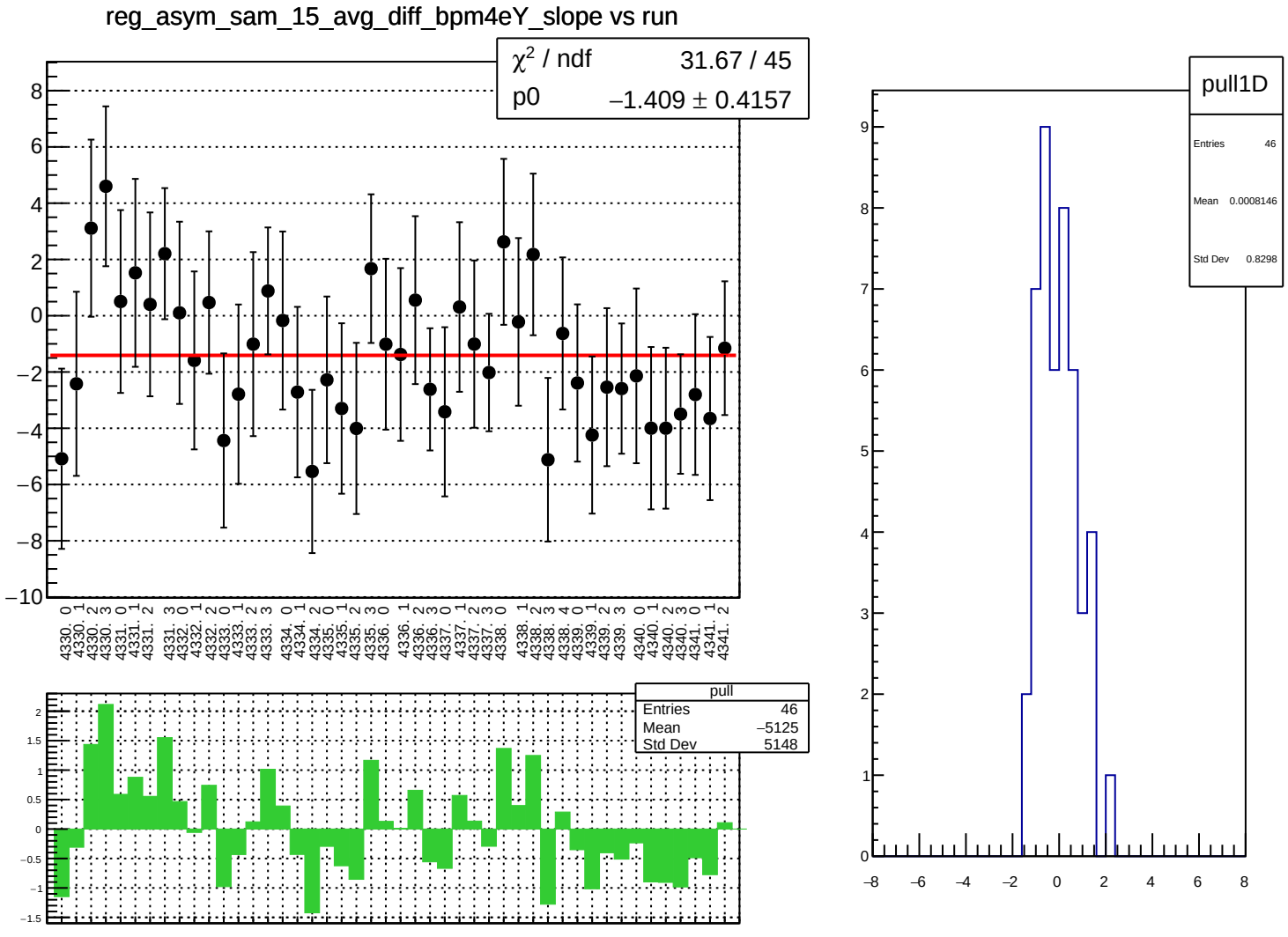

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 50.35 / 45
p0 2.49 ± 0.01448
pull
Entries 46
Mean −2731
Std Dev 2743
pull1D
Entries 46
Mean 0.00135
Std Dev 1.046

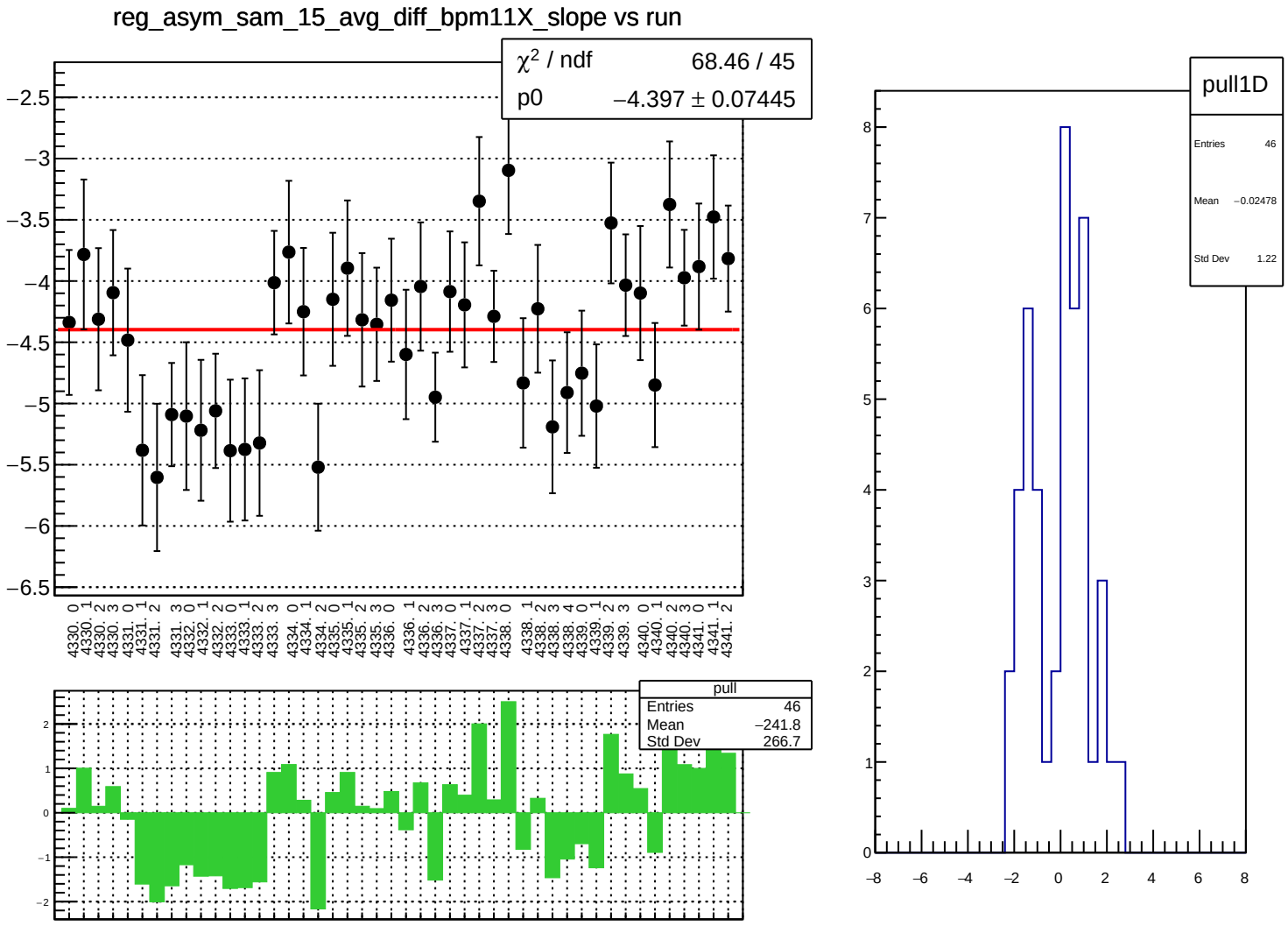

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 75.77 / 45
p0 −9.704 ± 0.3498
pull
Entries 46
Mean −73.41
Std Dev 98.16
pull1D
Entries 46
Mean −0.08441
Std Dev 1.281

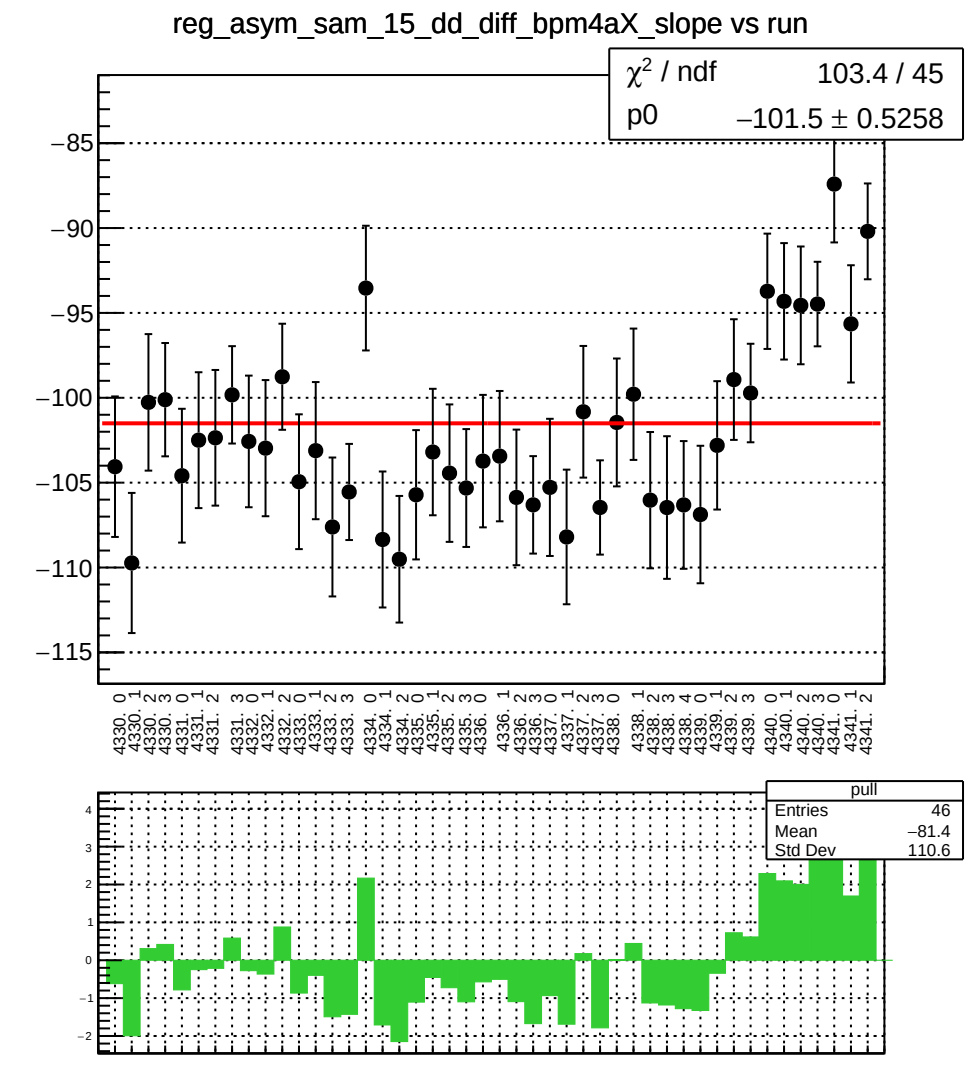

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.56 / 45
p0 29.57 ± 0.3831
40
35
30
25
20
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −102.6
Std Dev 128.6
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.05154
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

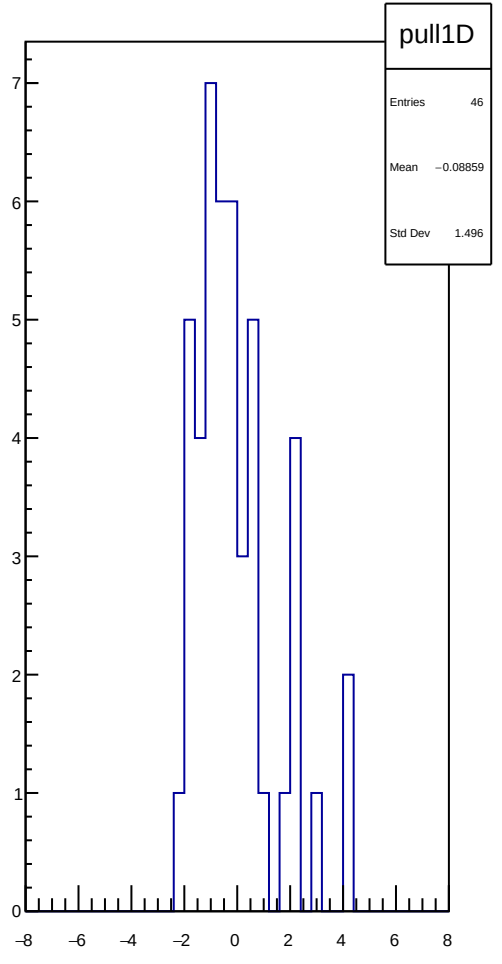

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 639.1 / 45
p0 −10.43 ± 0.0611
pull
Entries 46
Mean −390.1
Std Dev 340.8

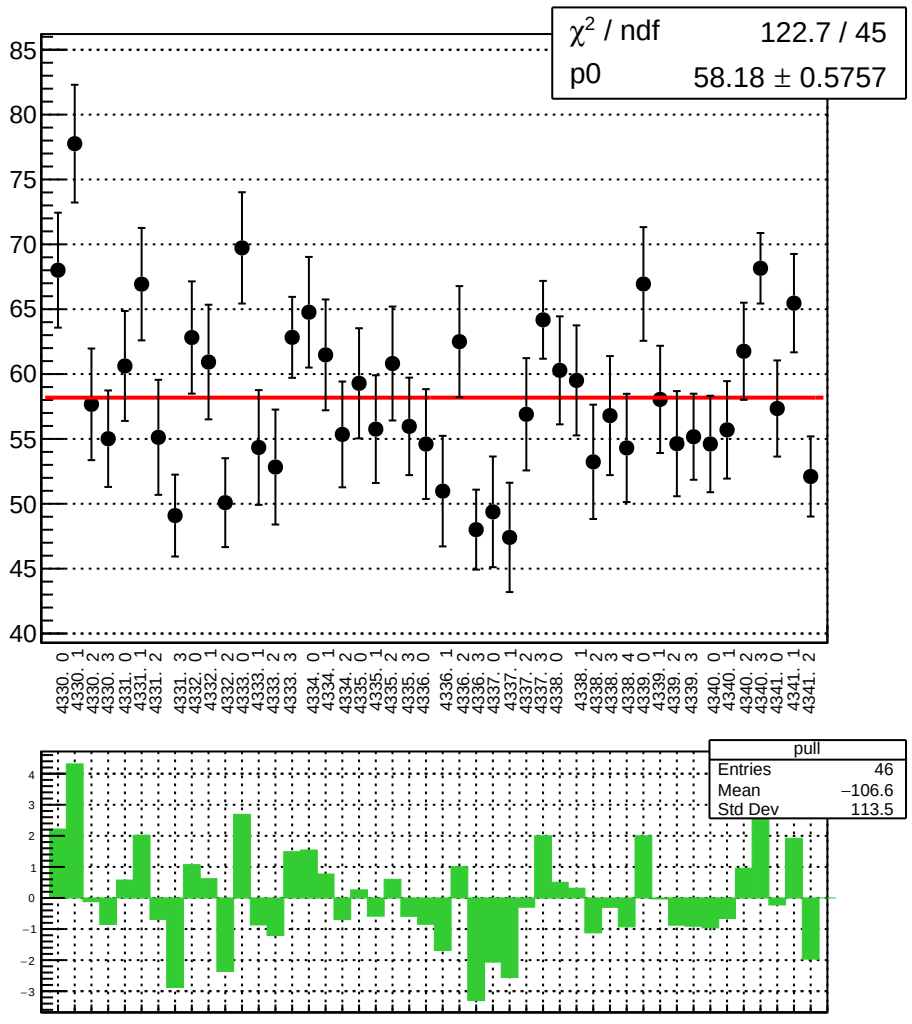

pull1D
Entries 46
Mean 0.4248
Std Dev 3.186

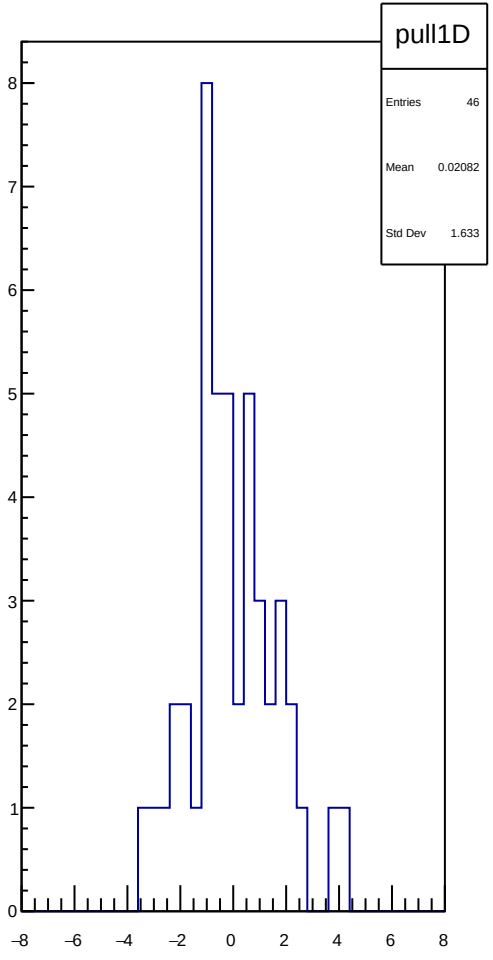

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.67 / 45
p0 −1.409 ± 0.4157
pull
Entries 46
Mean −5125
Std Dev 5148
pull1D
Entries 46
Mean 0.0008146
Std Dev 0.8298

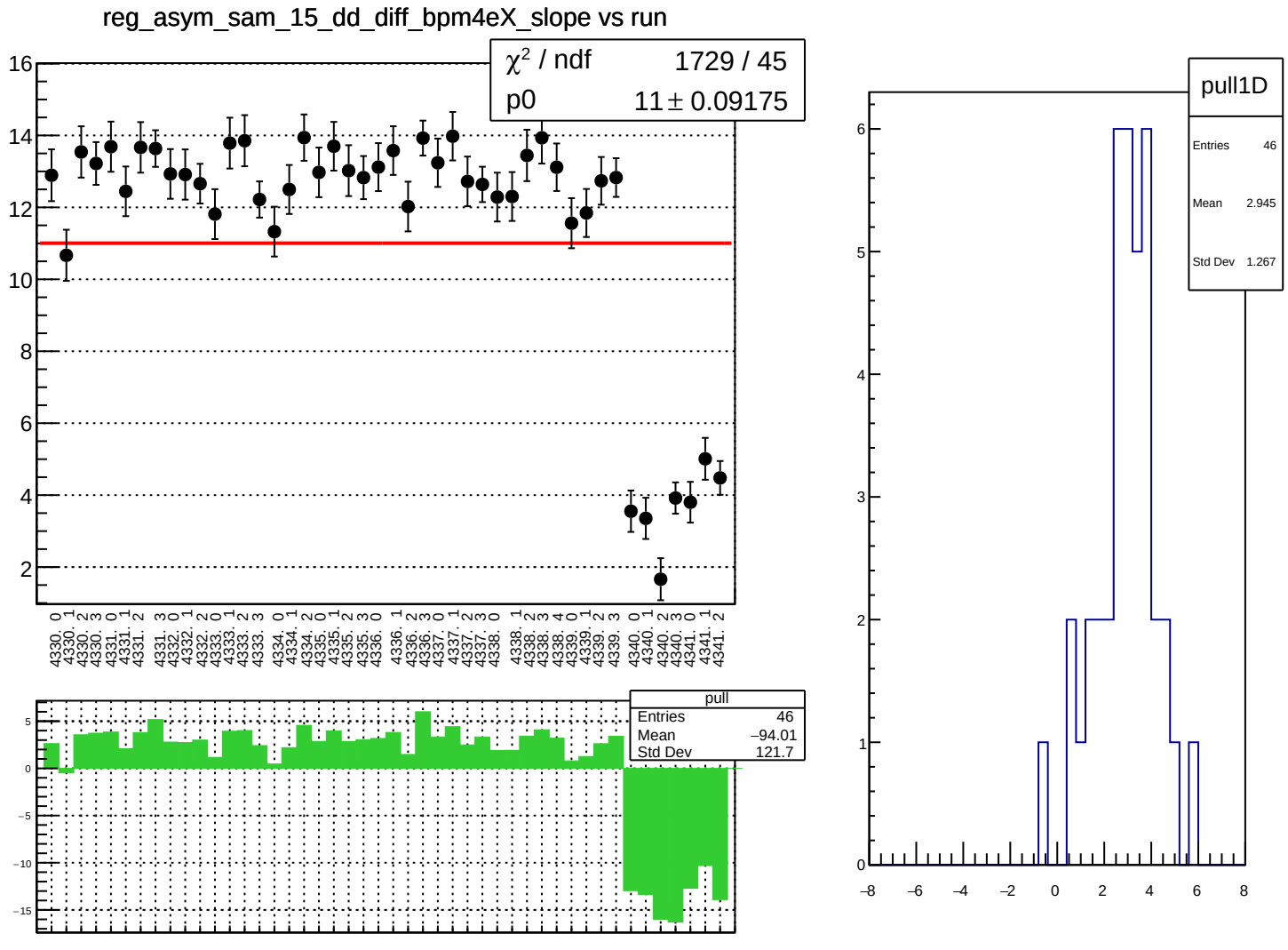

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 68.46 / 45
p0 −4.397 ± 0.07445
pull
Entries 46
Mean −241.8
Std Dev 266.7
pull1D
Entries 46
Mean −0.02478
Std Dev 1.22

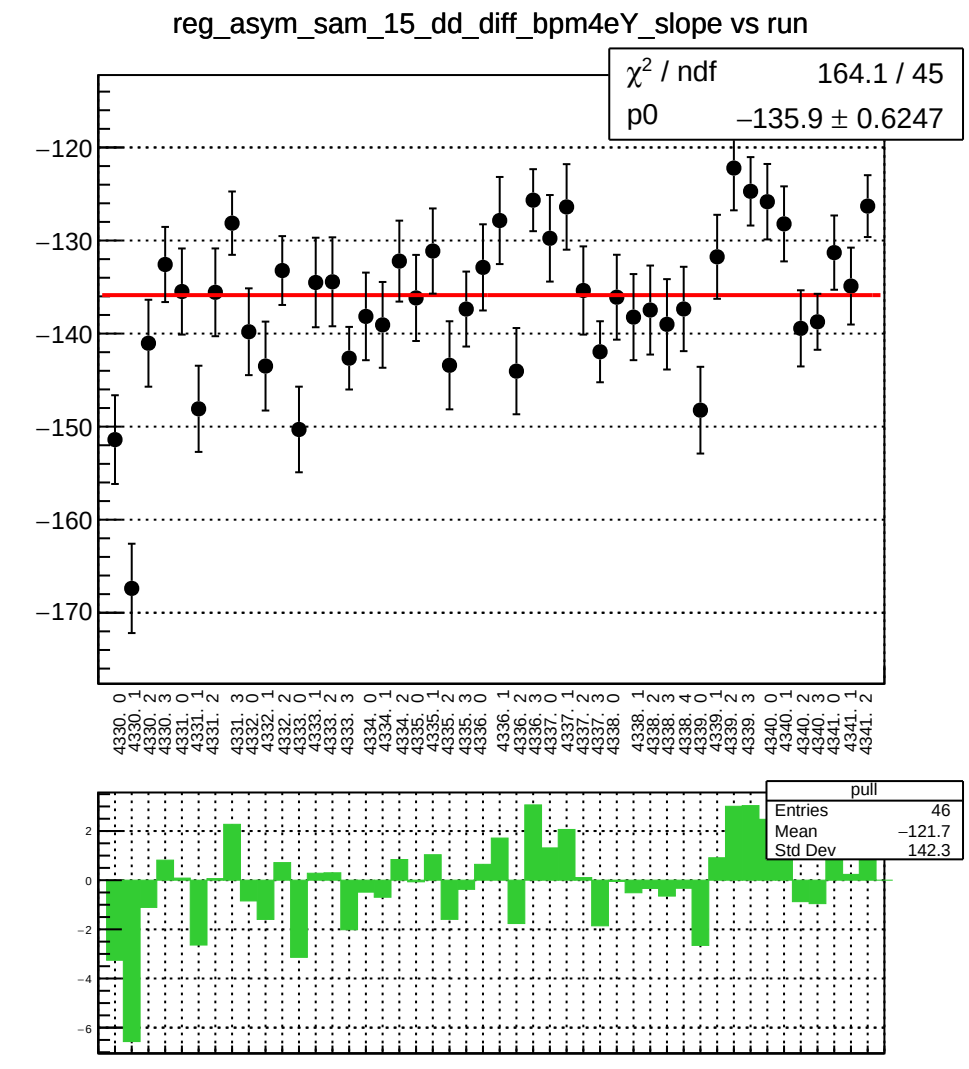

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 103.4 / 45
p0 −101.5 ± 0.5258
pull
Entries 46
Mean −81.4
Std Dev 110.6

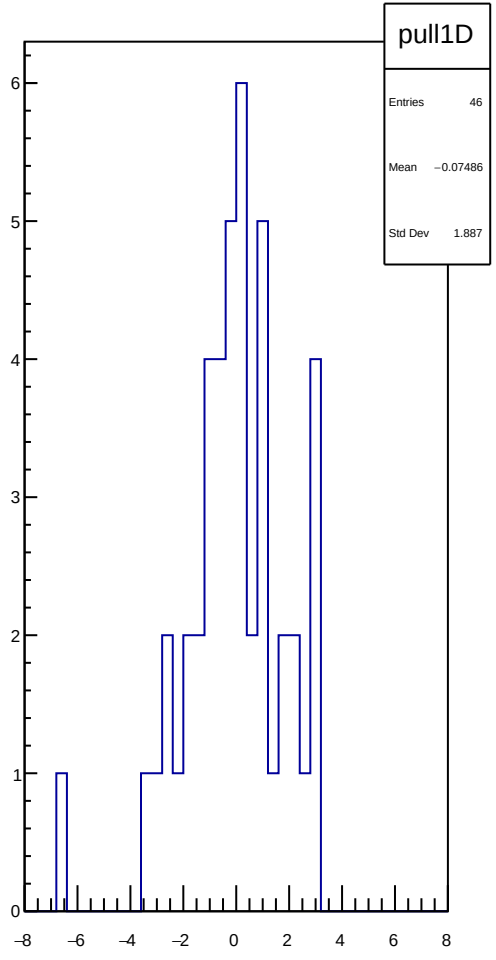

pull1D
Entries 46
Mean −0.08859
Std Dev 1.496

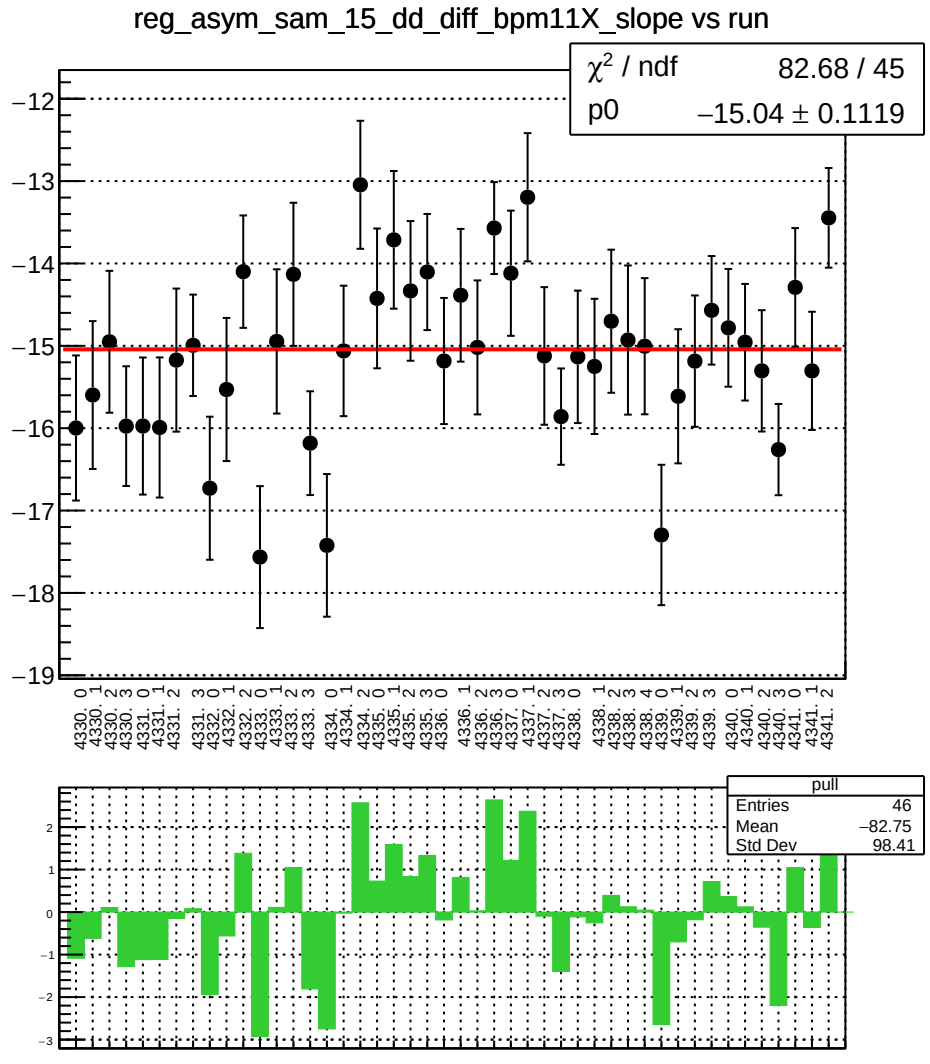

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 122.7 / 45
p0 58.18 ± 0.5757
pull
Entries 46
Mean −106.6
Std Dev 113.5

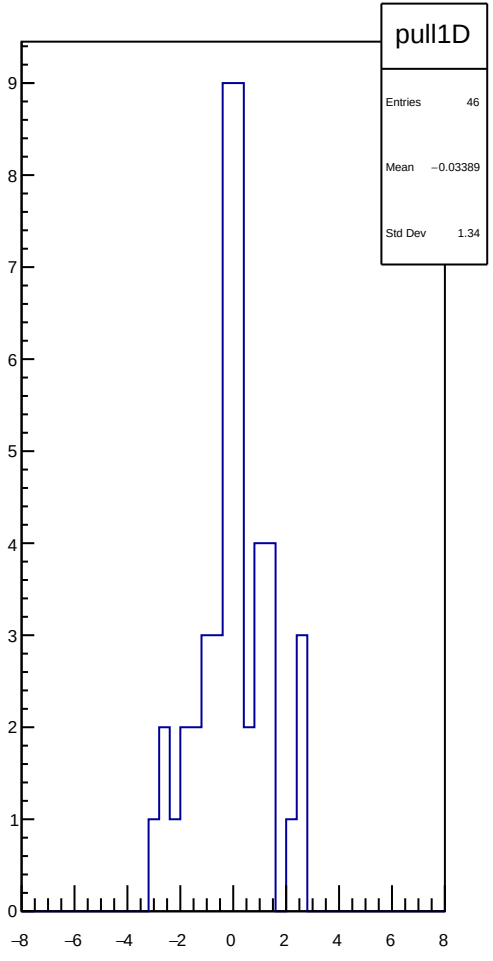

pull1D
Entries 46
Mean 0.02082
Std Dev 1.633

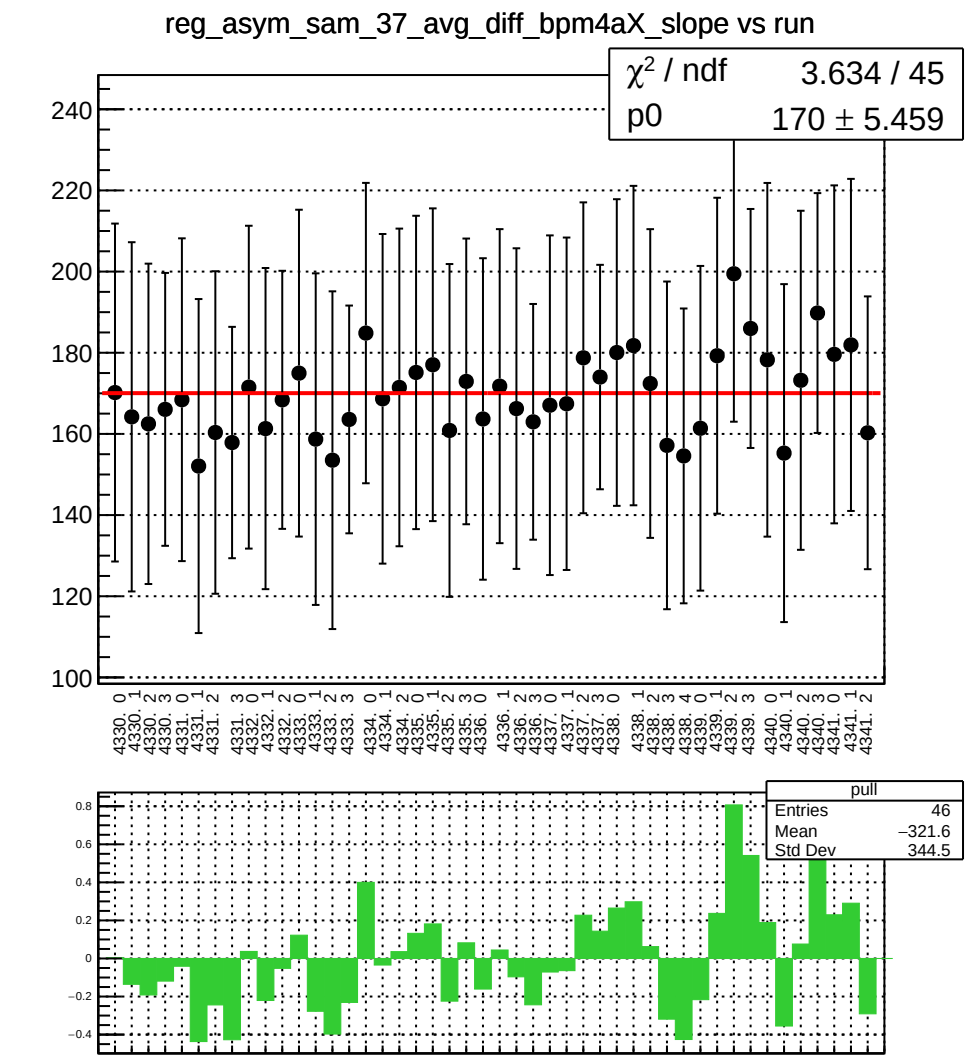

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1729 / 45
p0 11 ± 0.09175
pull
Entries 46
Mean −94.01
Std Dev 121.7
pull1D
Entries 46
Mean 2.945
Std Dev 1.267

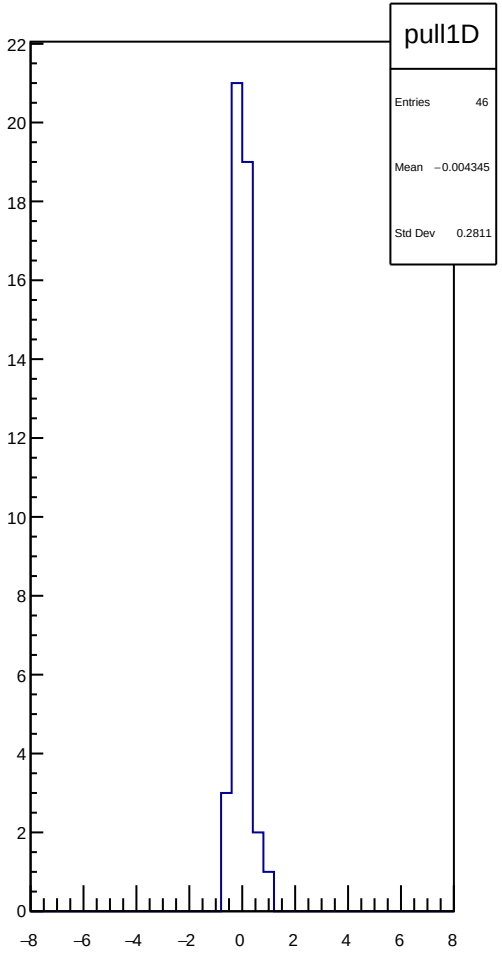

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 164.1 / 45
p0 −135.9 ± 0.6247
pull
Entries 46
Mean −121.7
Std Dev 142.3

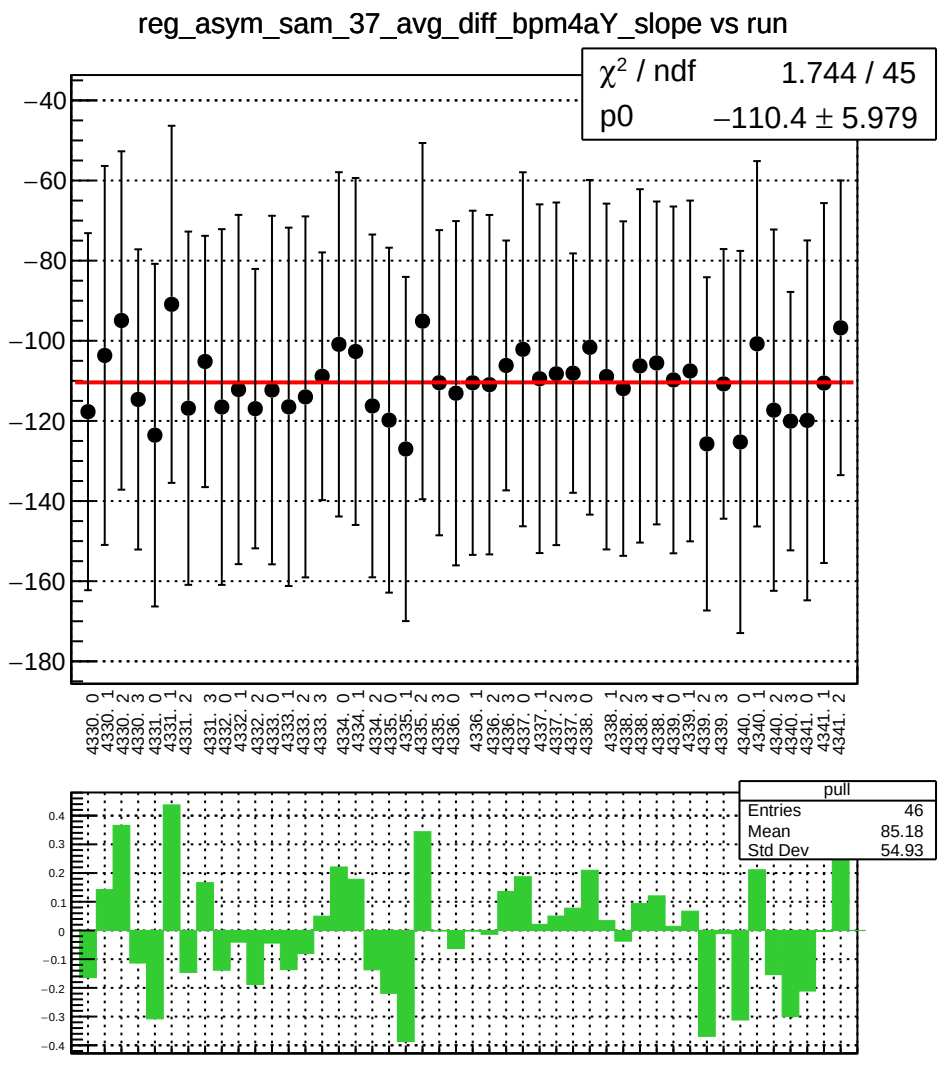

pull1D
Entries 46
Mean −0.07486
Std Dev 1.887

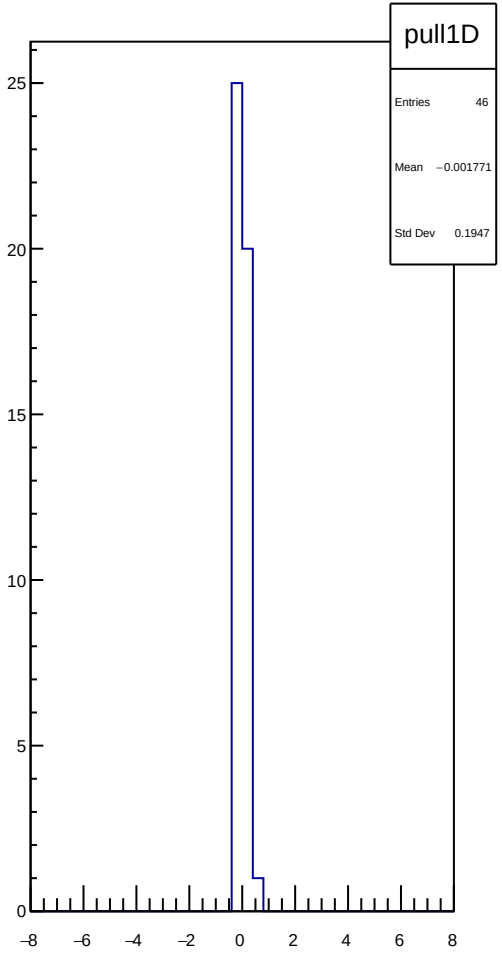

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 82.68 / 45
p0 −15.04 ± 0.1119
pull
Entries 46
Mean −82.75
Std Dev 98.41

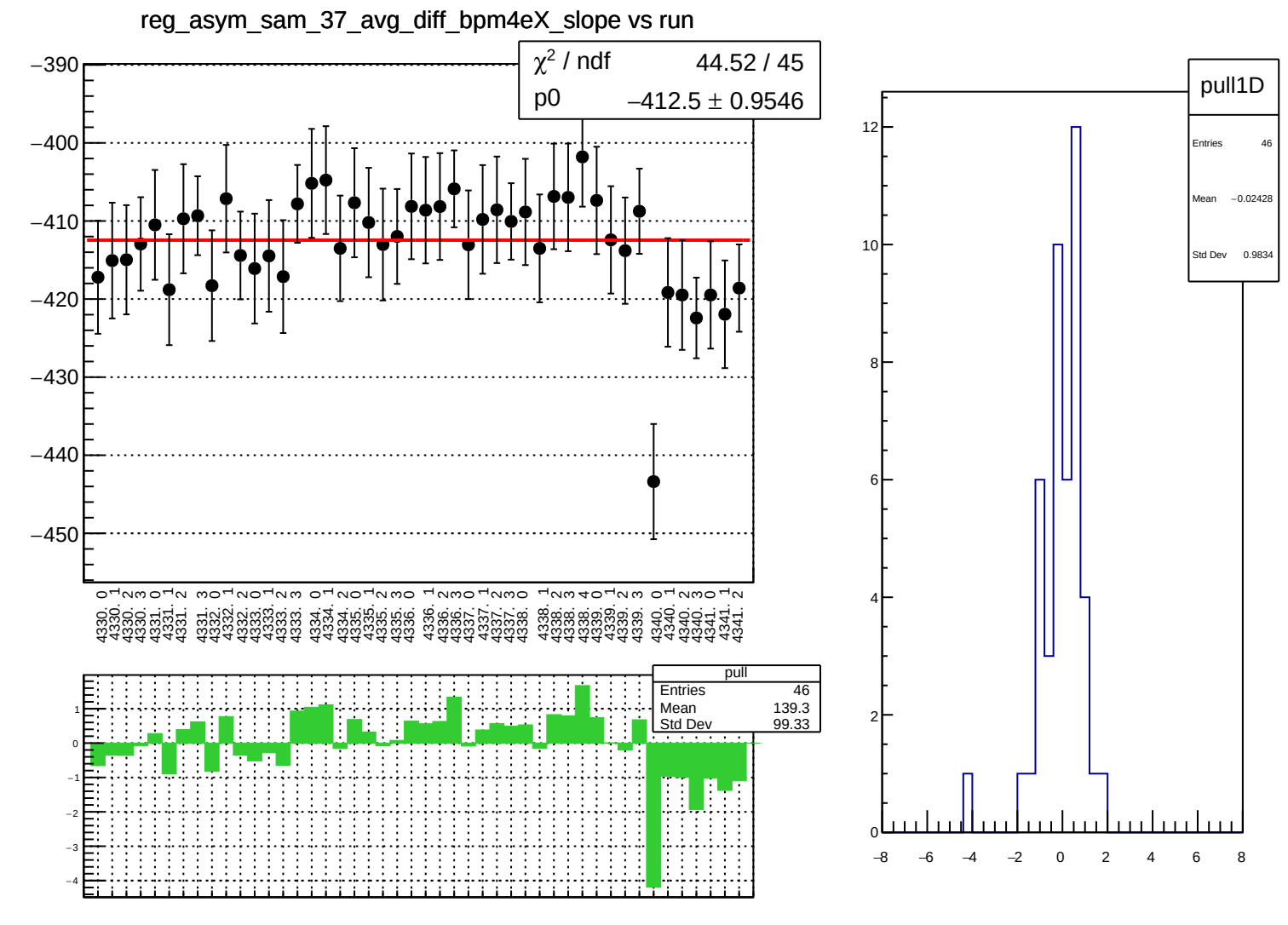

pull1D
Entries 46
Mean −0.03389
Std Dev 1.34

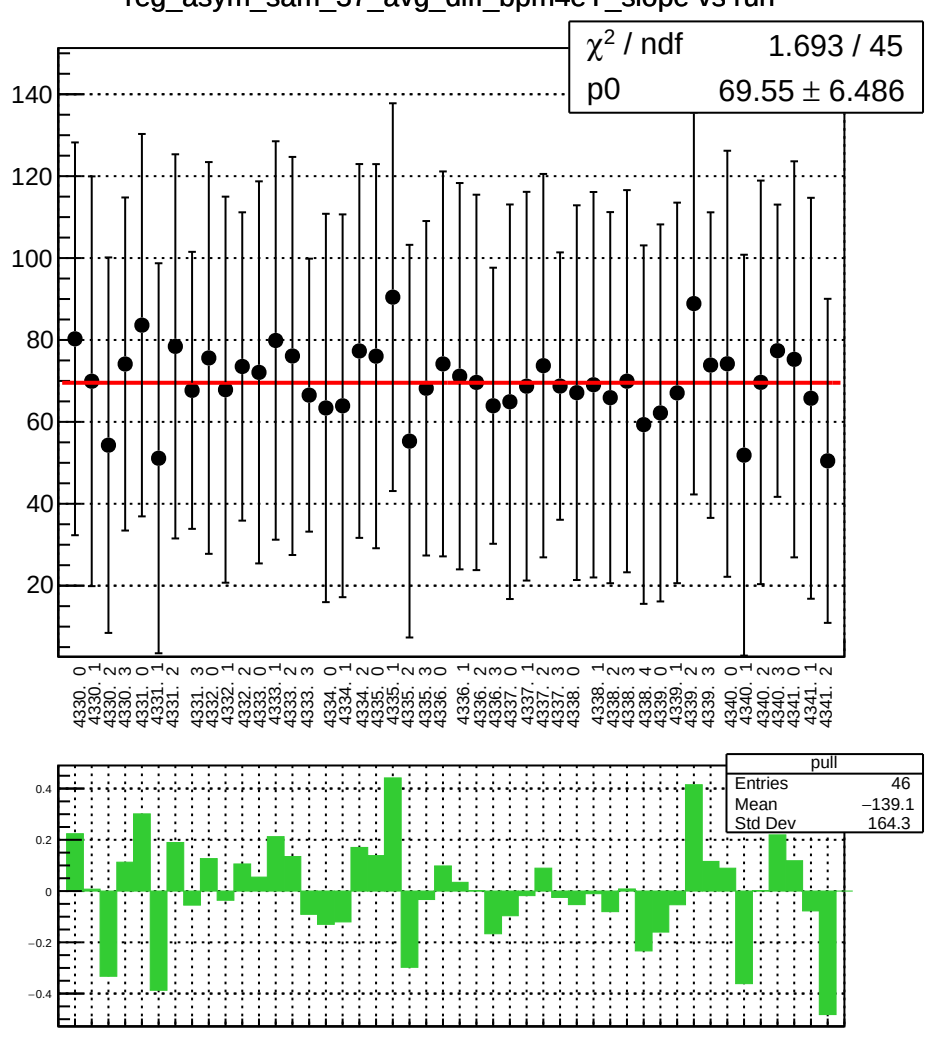

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.634 / 45
p0 170 ± 5.459
pull
Entries 46
Mean −321.6
Std Dev 344.5

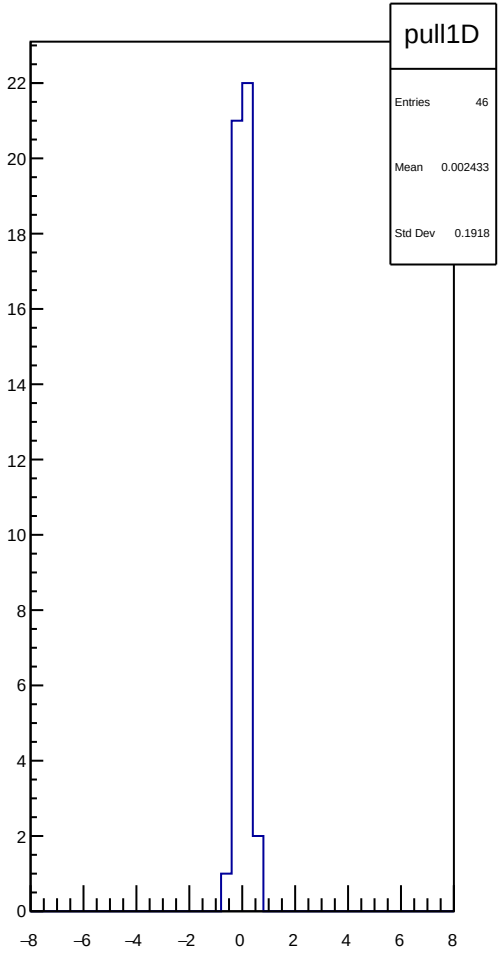

pull1D
Entries 46
Mean −0.004345
Std Dev 0.2811

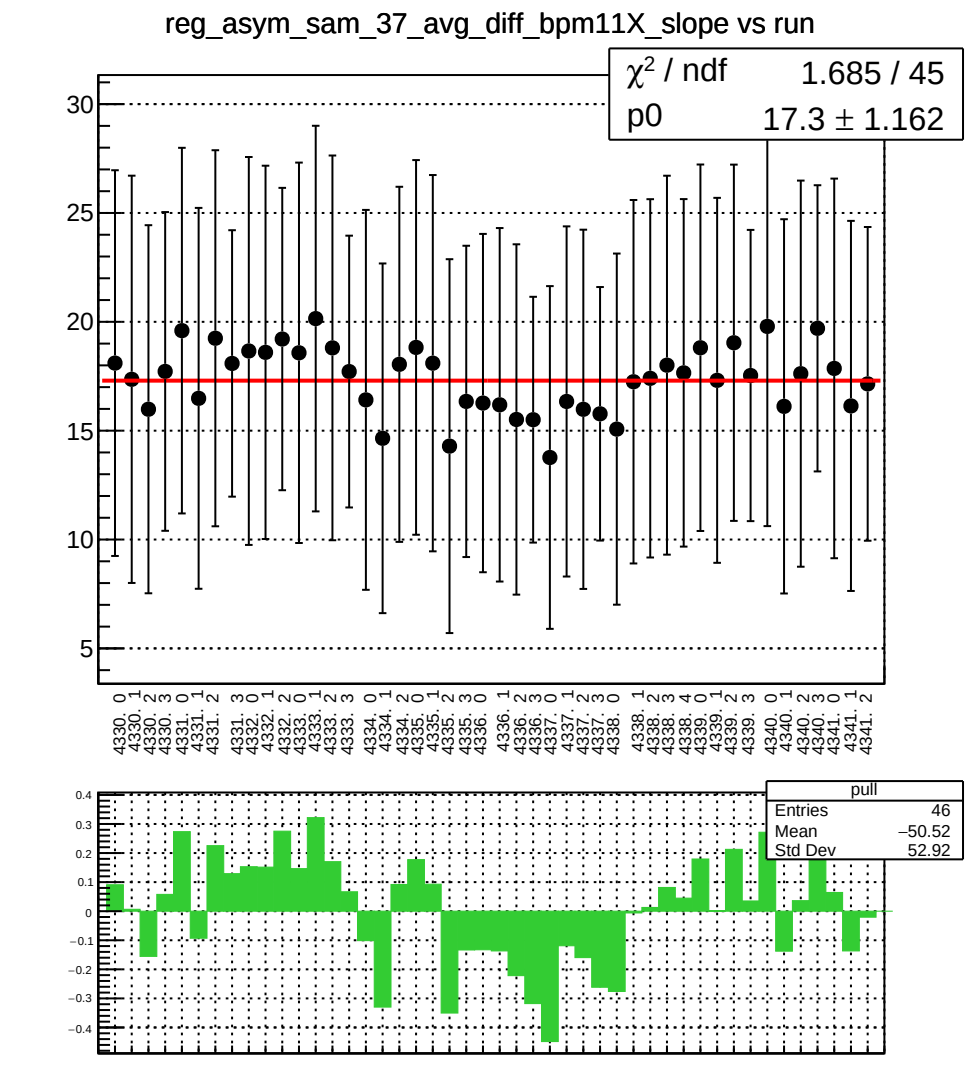

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.744 / 45
p0 −110.4 ± 5.979
pull
Entries 46
Mean 85.18
Std Dev 54.93

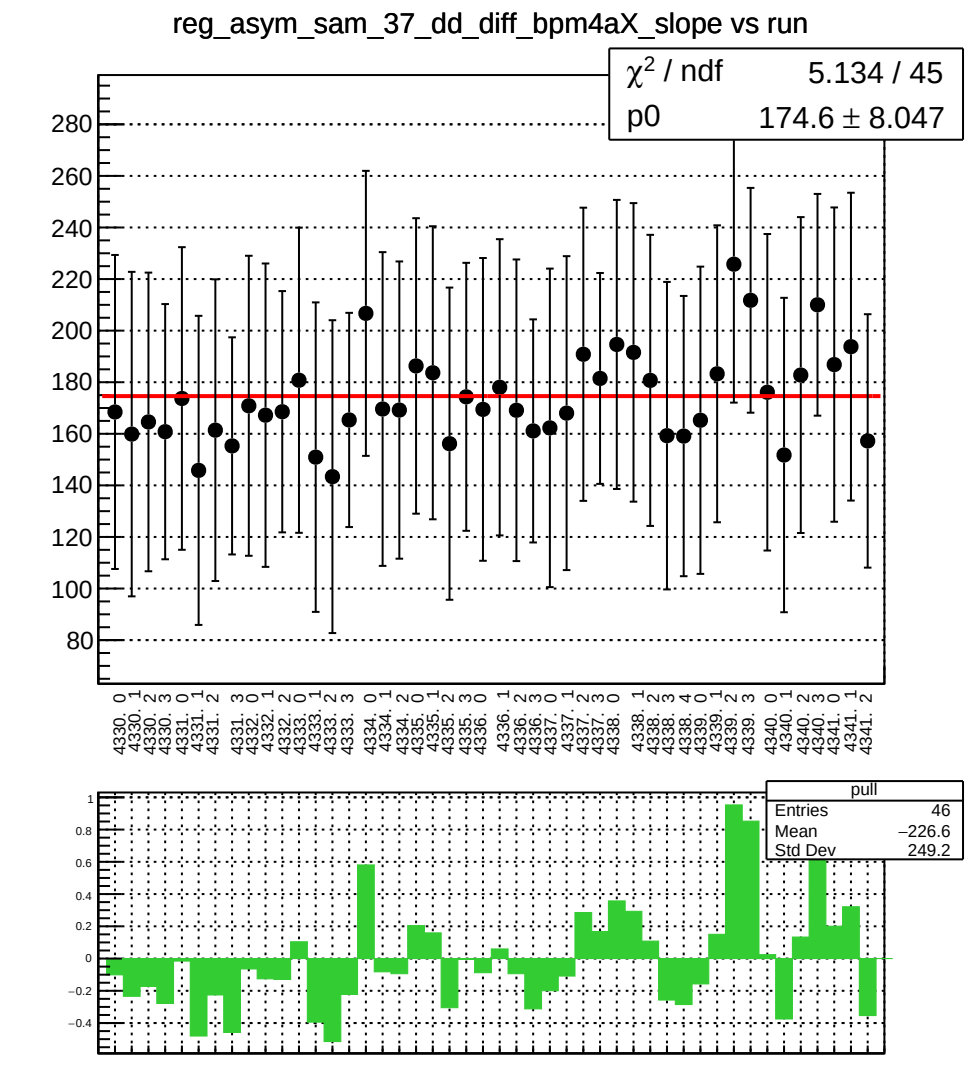

pull1D
Entries 46
Mean −0.001771
Std Dev 0.1947

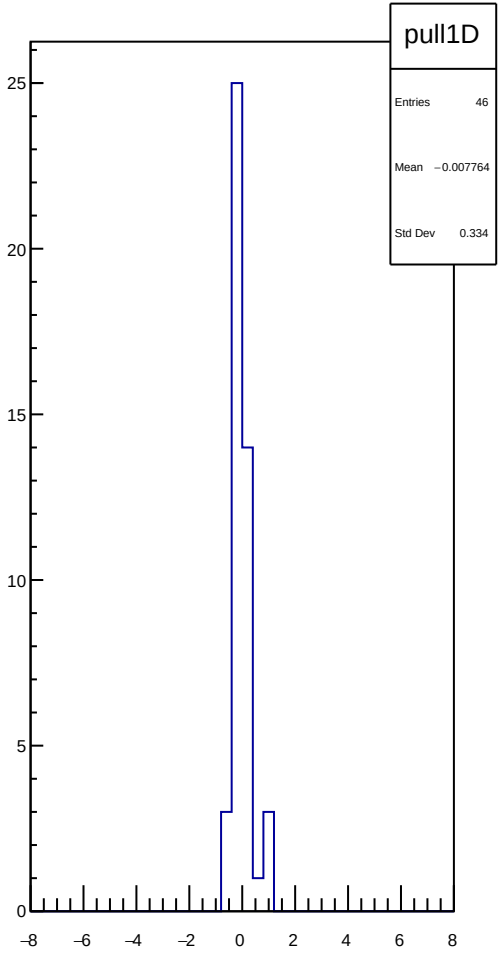

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.52 / 45
p0 −412.5 ± 0.9546
pull
Entries 46
Mean 139.3
Std Dev 99.33
pull1D
Entries 46
Mean −0.02428
Std Dev 0.9834

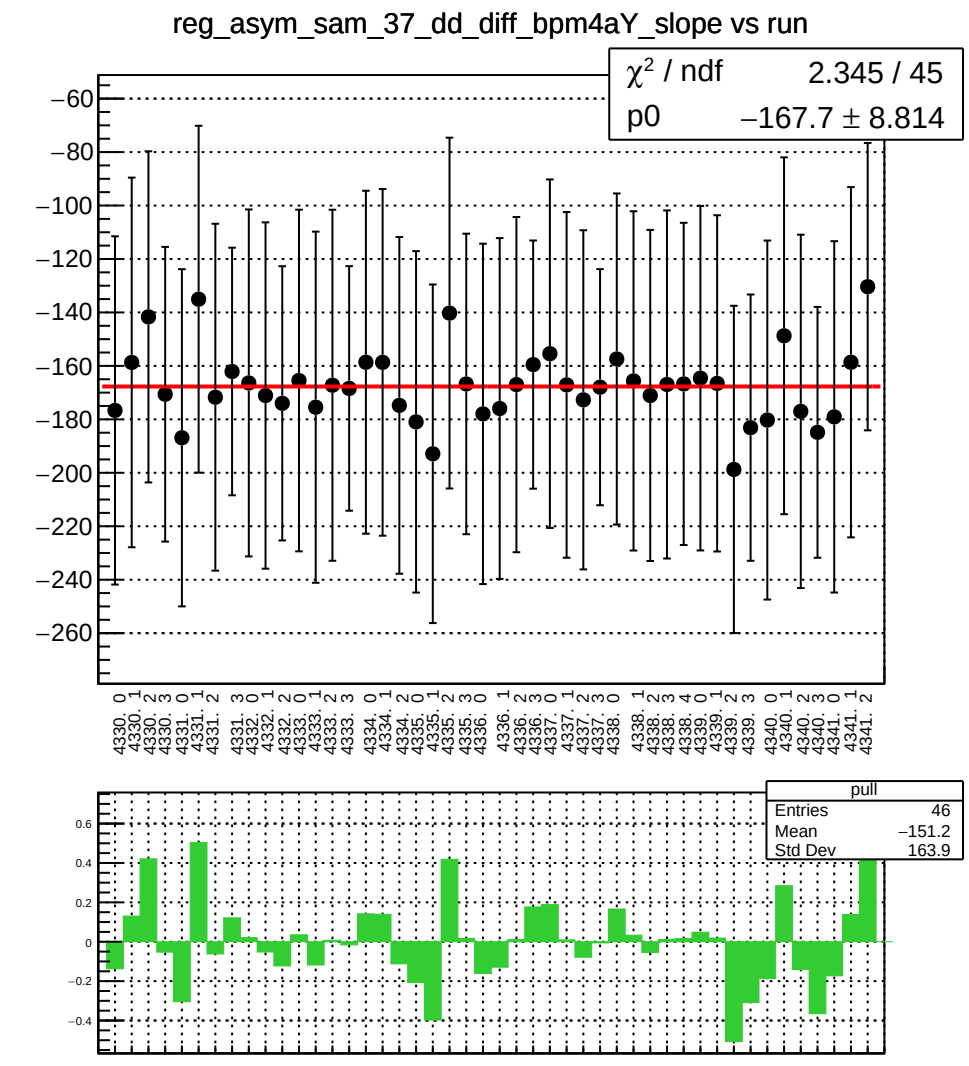

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.693 / 45
p0 69.55 ± 6.486
pull
Entries 46
Mean −139.1
Std Dev 164.3

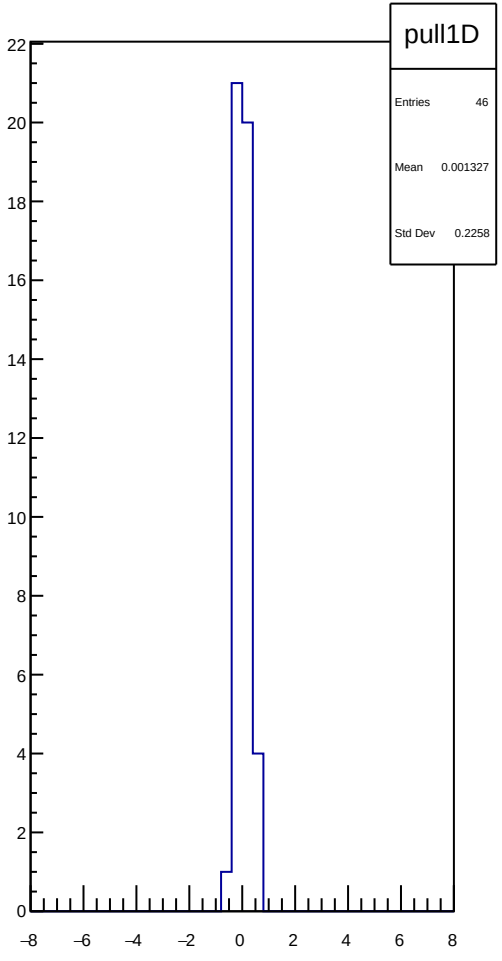

pull1D
Entries 46
Mean 0.002433
Std Dev 0.1918

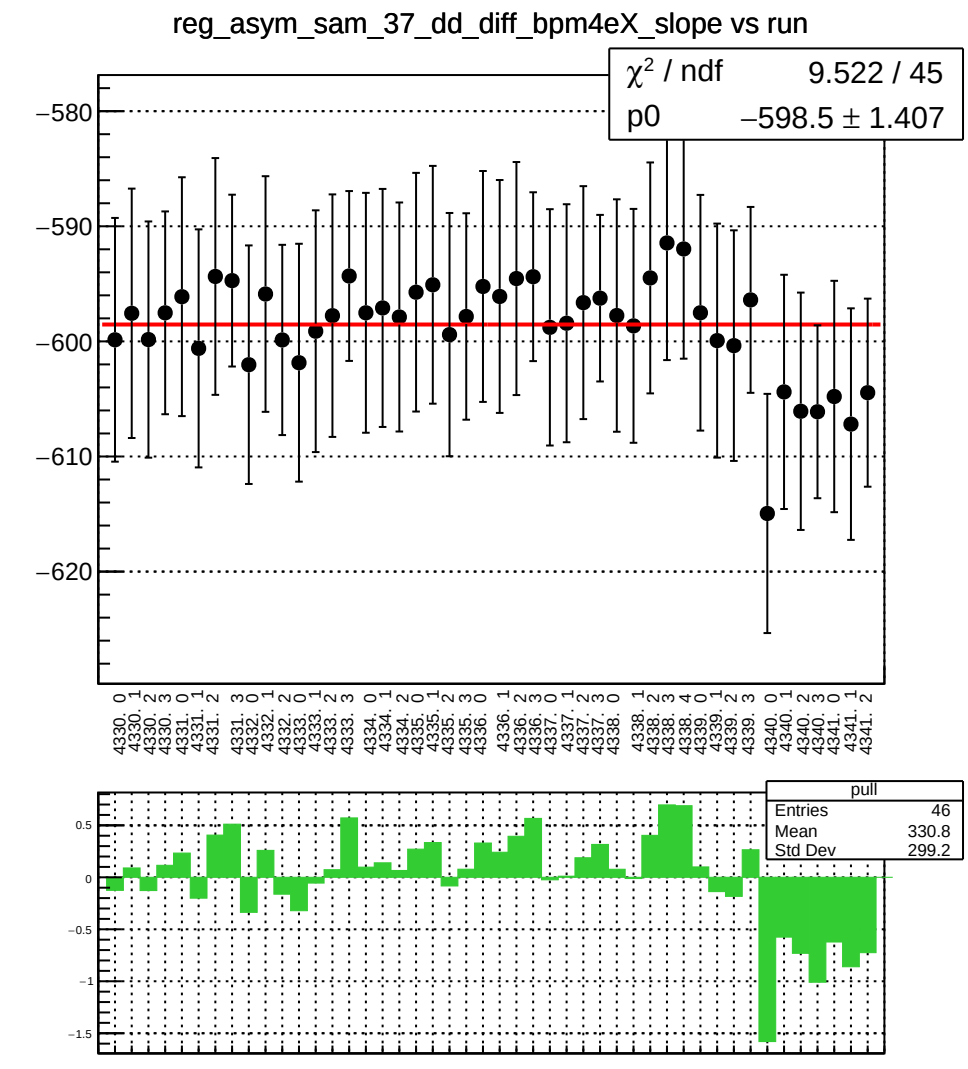

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 1.685 / 45
p0 17.3 ± 1.162
pull
Entries 46
Mean −50.52
Std Dev 52.92
pull1D
Entries 46
Mean 0.004328
Std Dev 0.1914

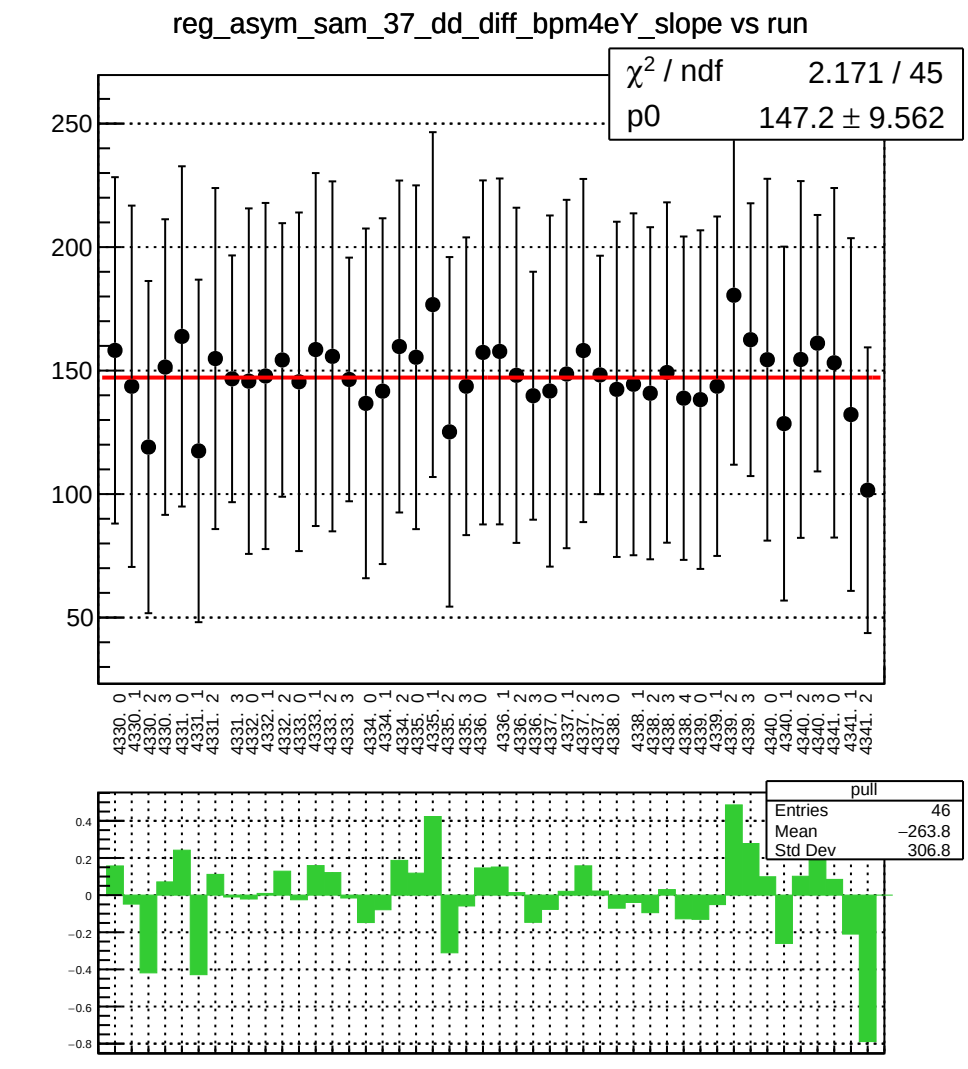

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.134 / 45
p0 174.6 ± 8.047
pull
Entries 46
Mean −226.6
Std Dev 249.2

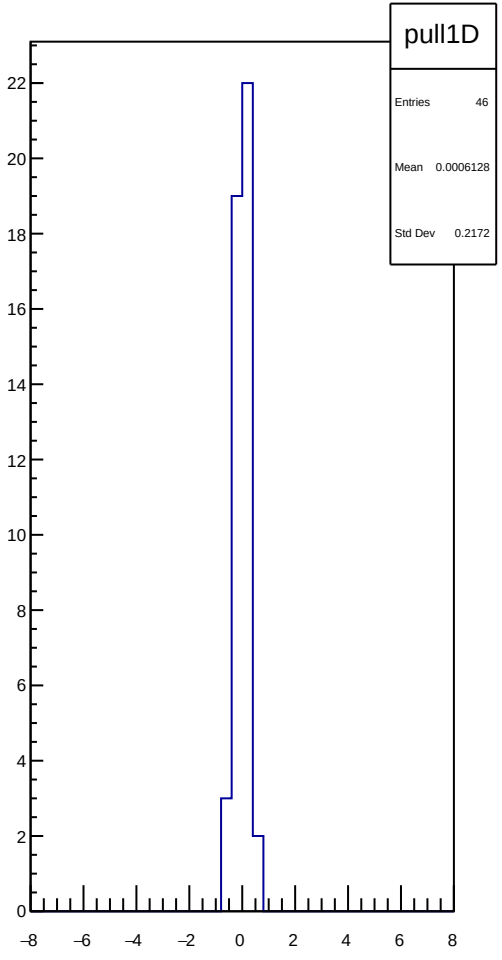

pull1D
Entries 46
Mean −0.007764
Std Dev 0.334

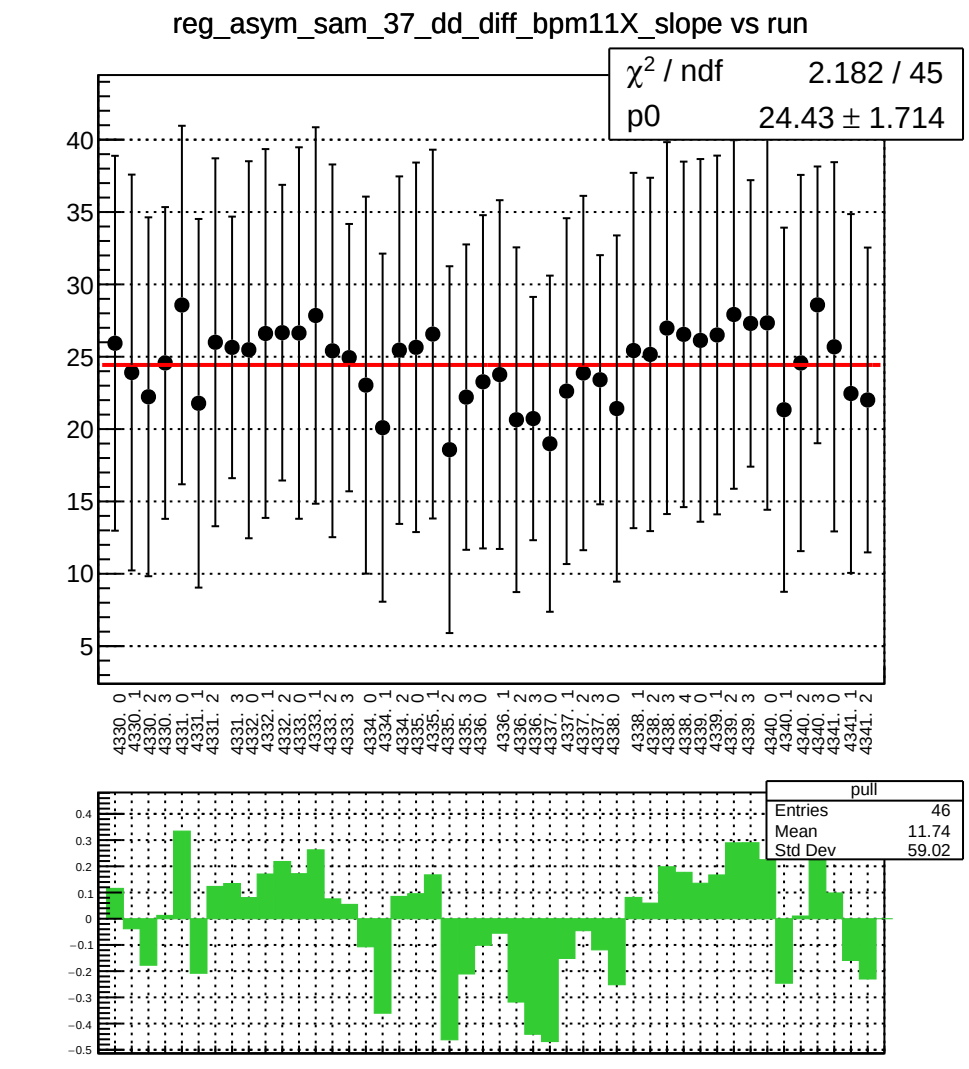

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.345 / 45
p0 −167.7 ± 8.814
pull
Entries 46
Mean −151.2
Std Dev 163.9

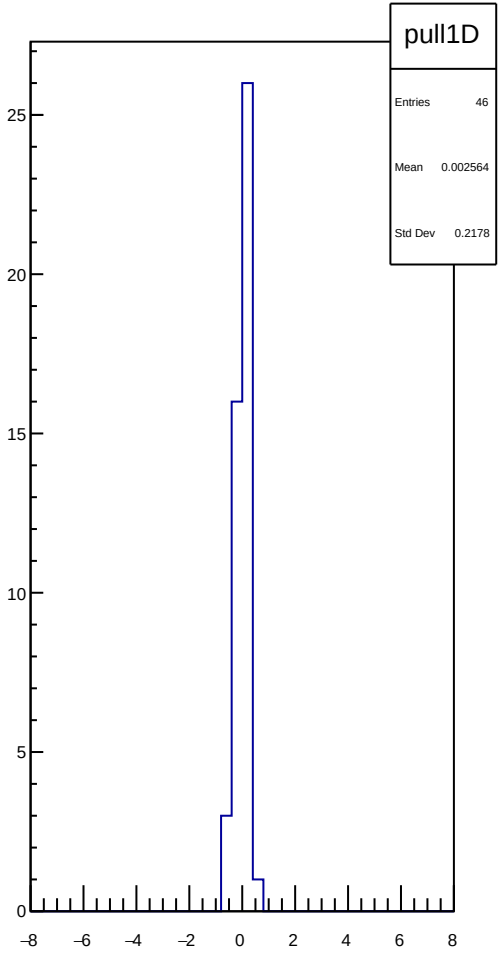

pull1D
Entries 46
Mean 0.001327
Std Dev 0.2258

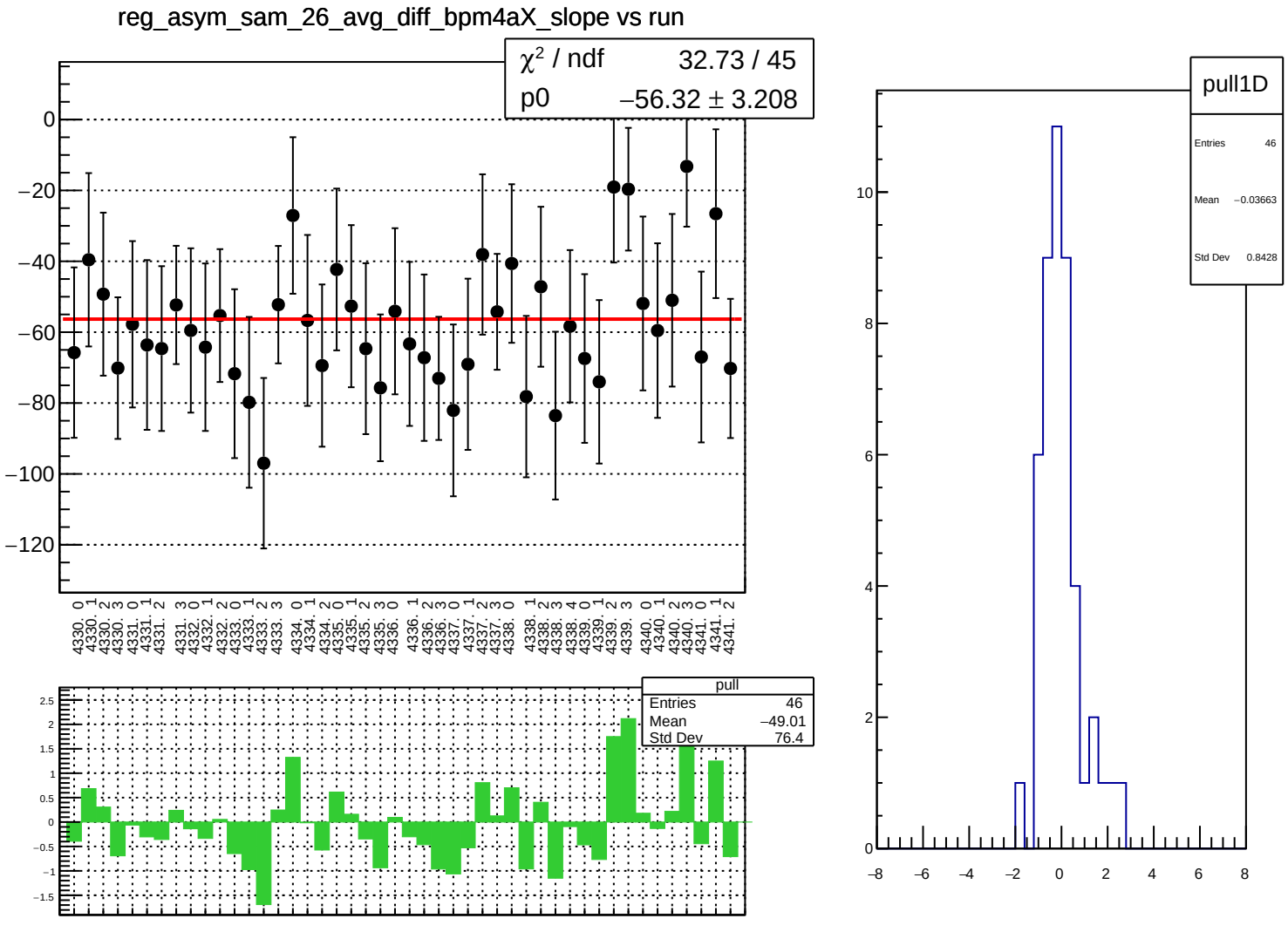

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.522 / 45
p0 −598.5 ± 1.407
−580
−590
−600
−610
−620
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 330.8
Std Dev 299.2
0.5
0
−0.5
−1
−1.5
pull1D
Entries 46
Mean −0.007614
Std Dev 0.4549
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

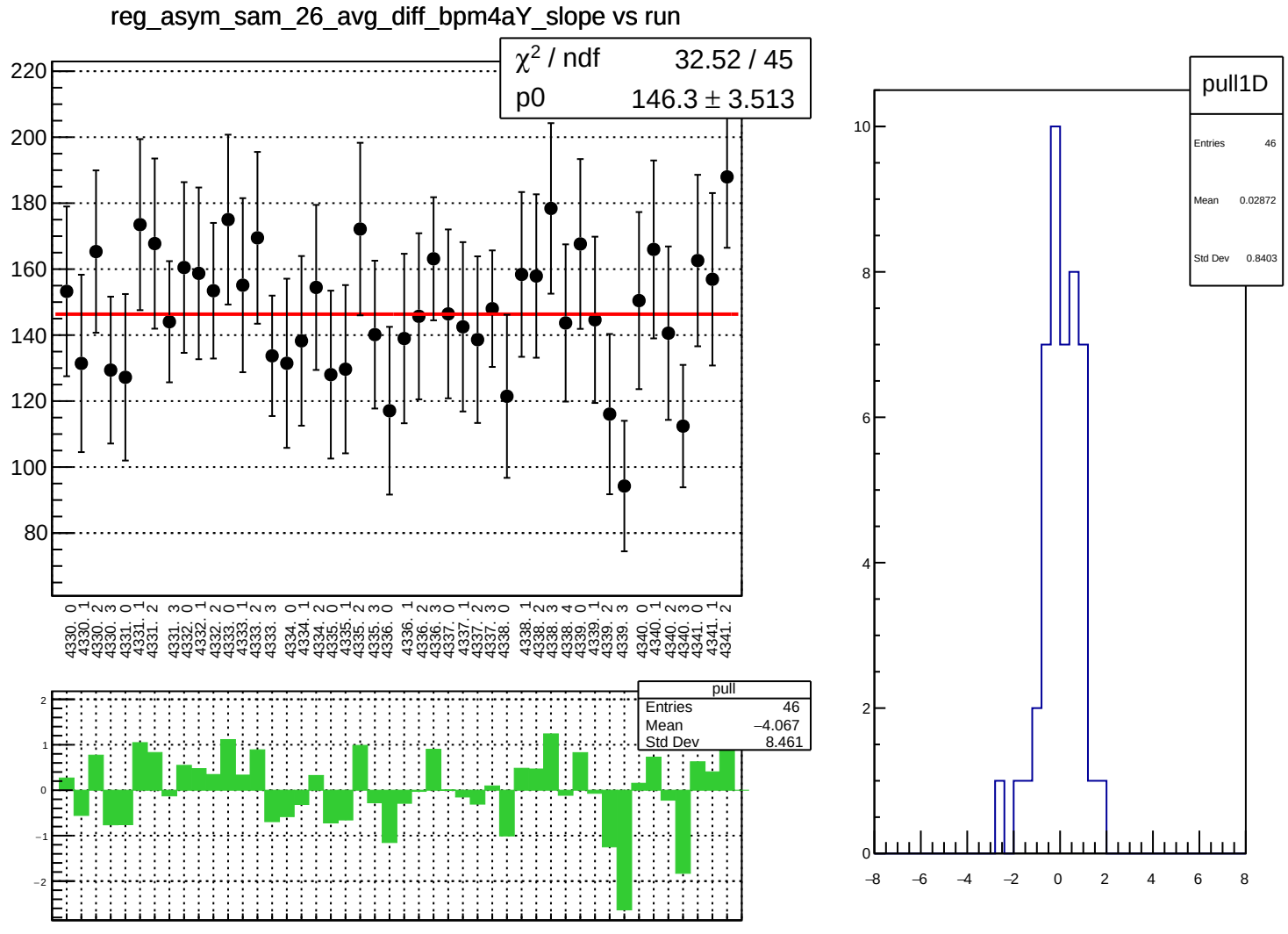

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.171 / 45
p0 147.2 ± 9.562
250
200
150
100
50
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −263.8
Std Dev 306.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

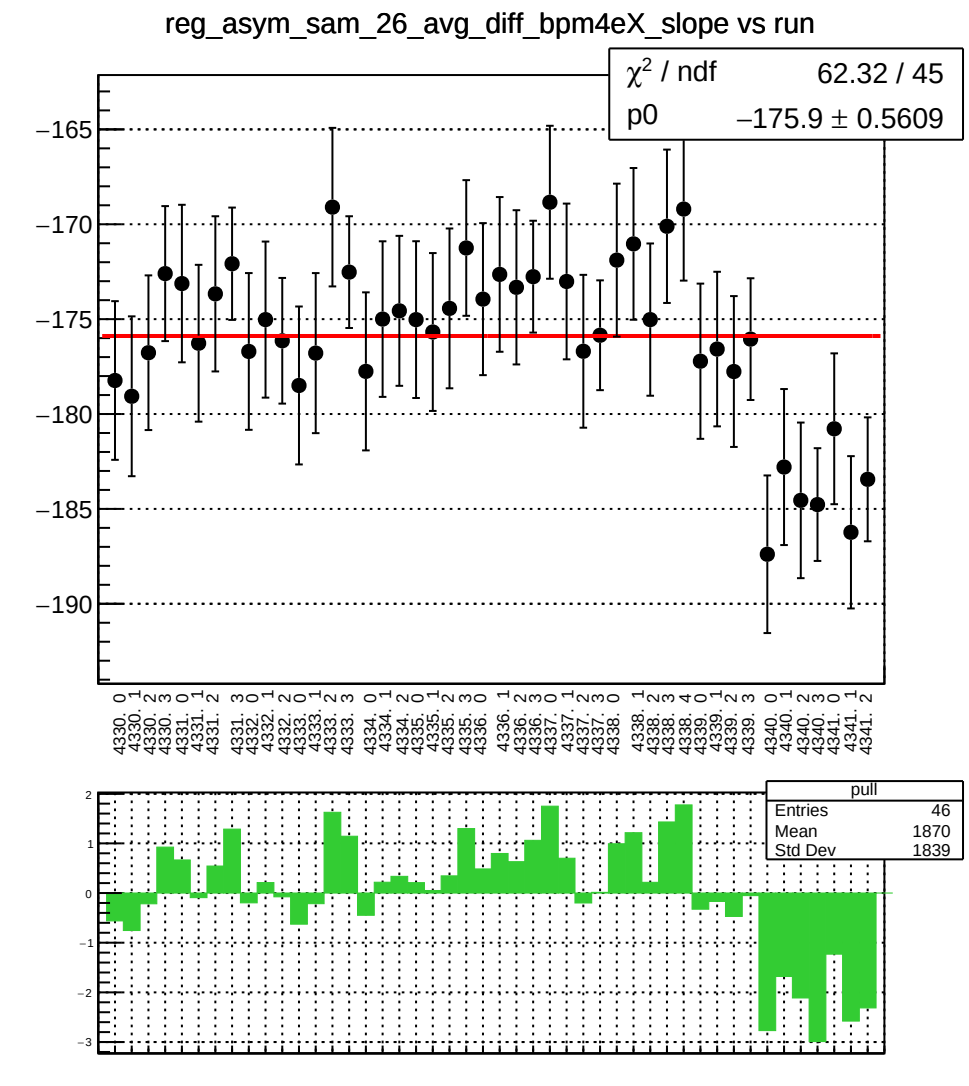

pull1D
Entries 46
Mean 0.0006128
Std Dev 0.2172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

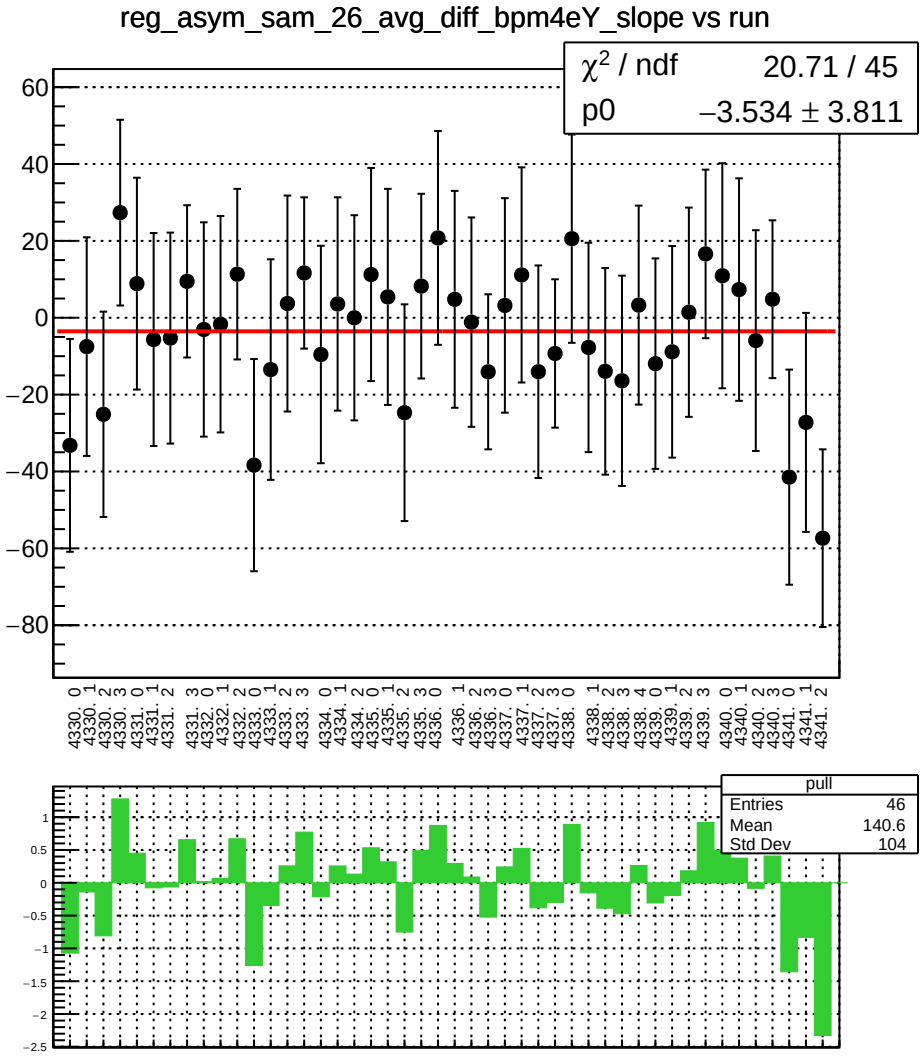

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 2.182 / 45
p0 24.43 ± 1.714
pull
Entries 46
Mean 11.74
Std Dev 59.02

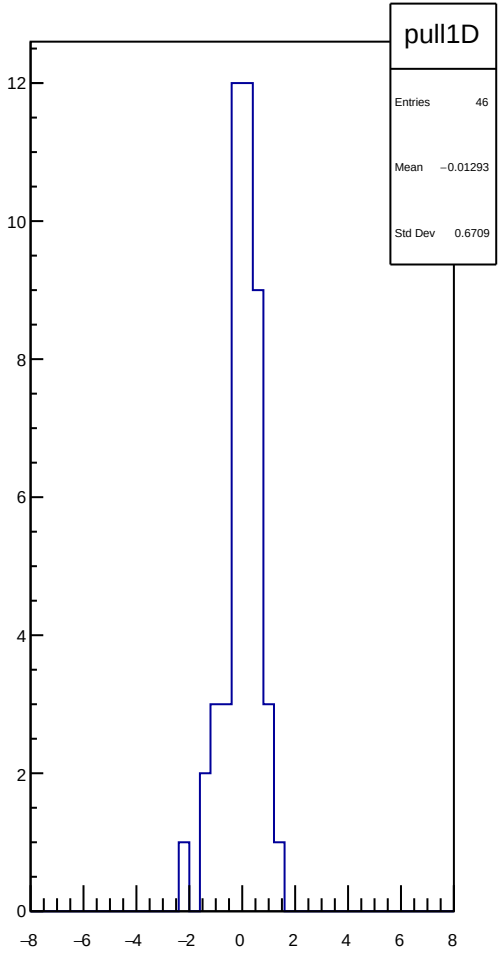

pull1D
Entries 46
Mean 0.002564
Std Dev 0.2178

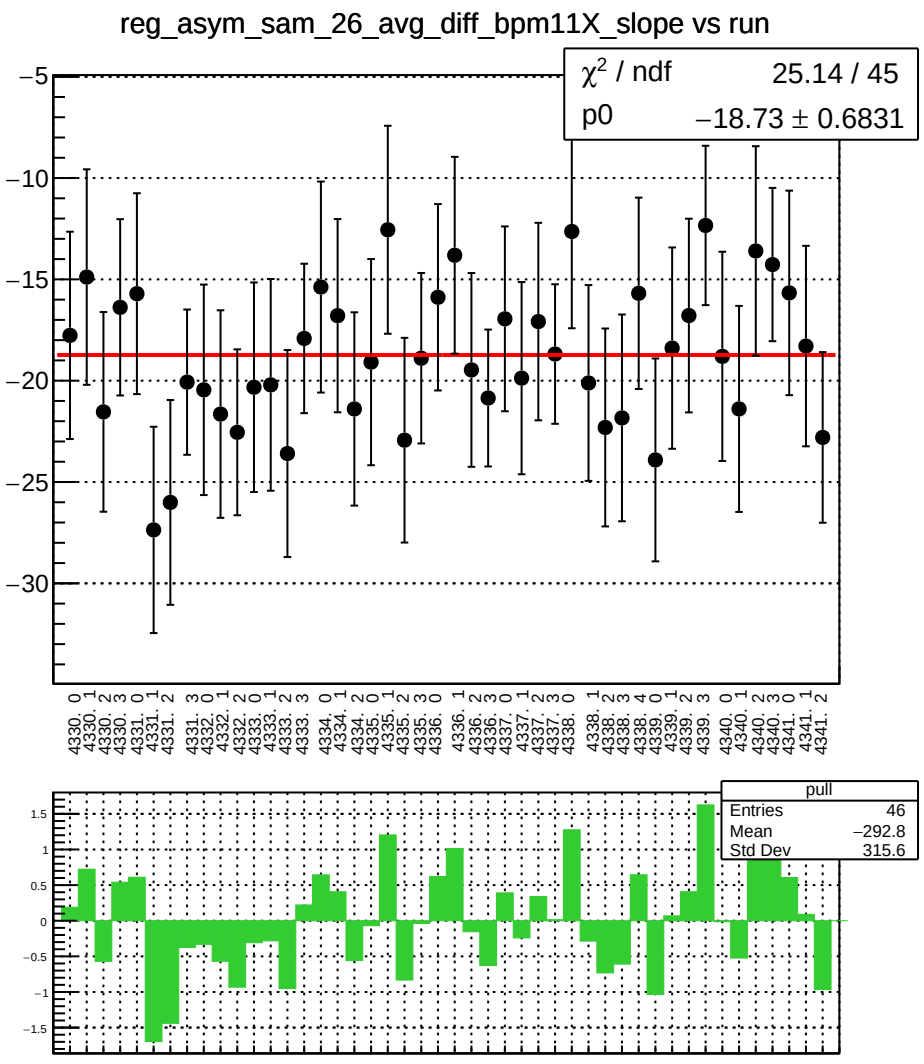

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 32.73 / 45
p0 −56.32 ± 3.208
pull
Entries 46
Mean −49.01
Std Dev 76.4
pull1D
Entries 46
Mean −0.03663
Std Dev 0.8428

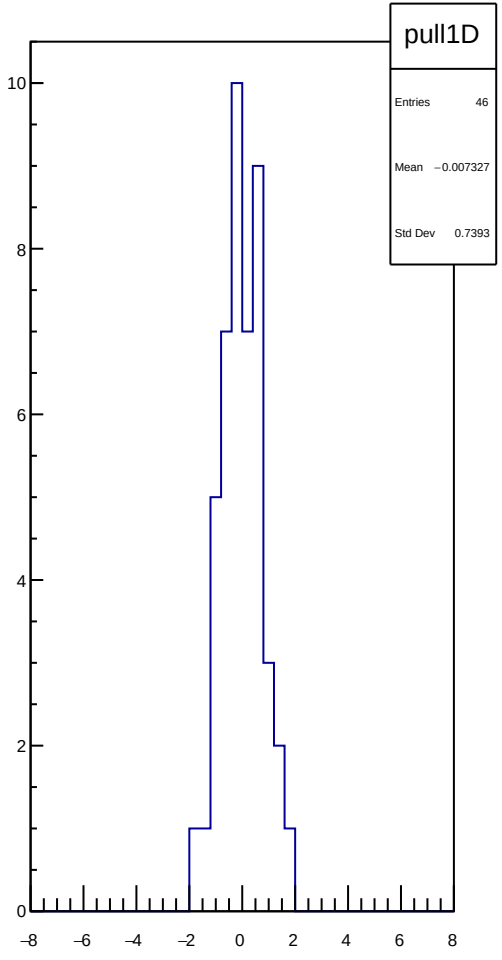

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.52 / 45
p0 146.3 ± 3.513
pull
Entries 46
Mean −4.067
Std Dev 8.461
pull1D
Entries 46
Mean 0.02872
Std Dev 0.8403

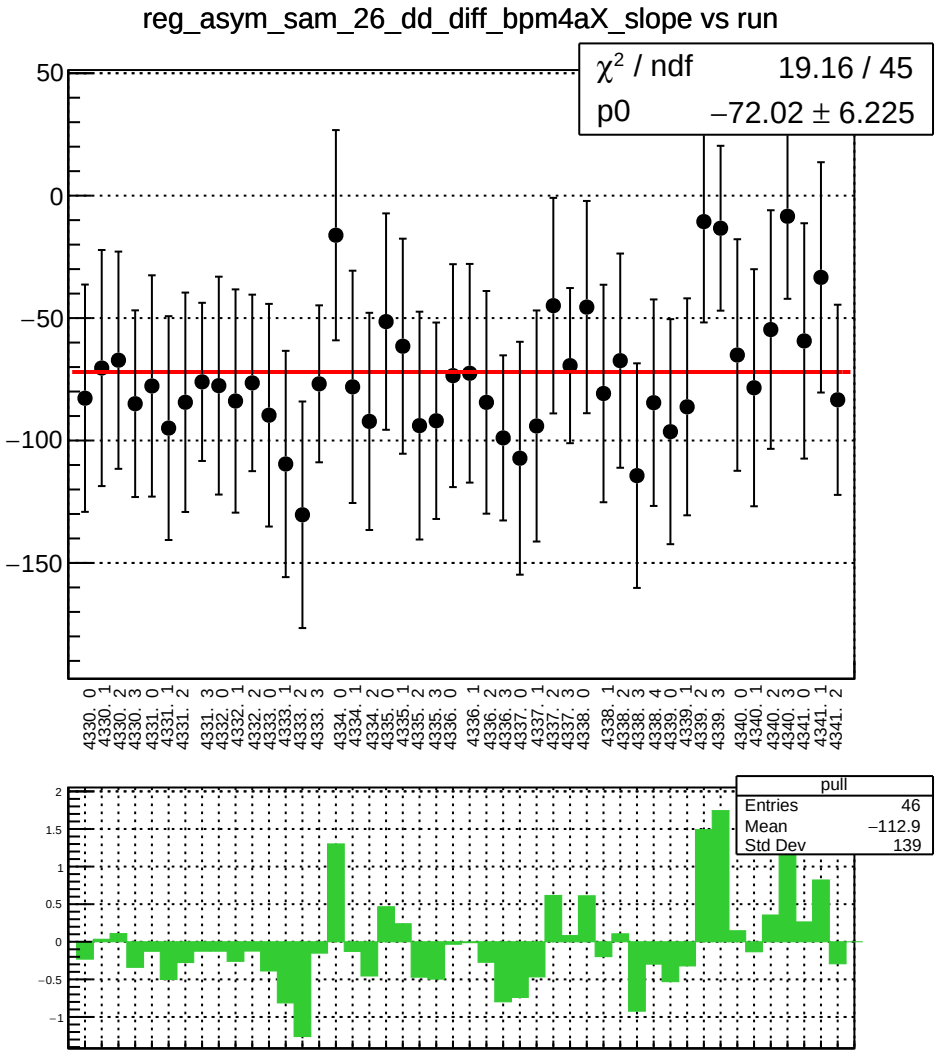

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.32 / 45
p0 −175.9 ± 0.5609
−165
−170
−175
−180
−185
−190
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean 1870
Std Dev 1839
2
1
0
−1
−2
−3
pull1D
Entries 46
Mean −0.003469
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

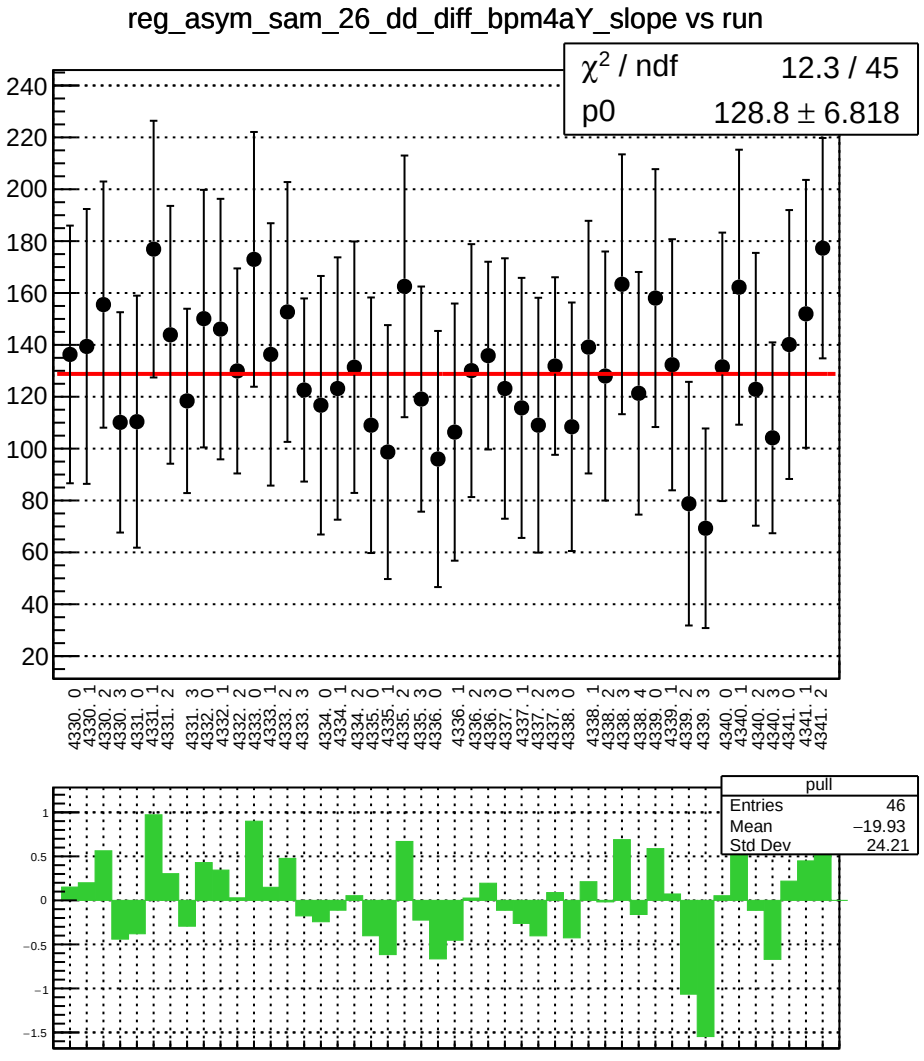

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.71 / 45
p0 −3.534 ± 3.811
pull
Entries 46
Mean 140.6
Std Dev 104

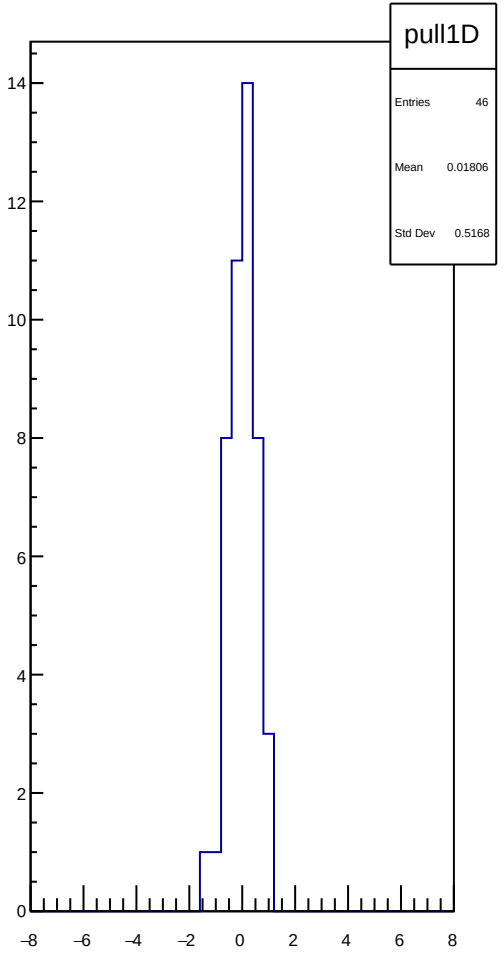

pull1D
Entries 46
Mean −0.01293
Std Dev 0.6709

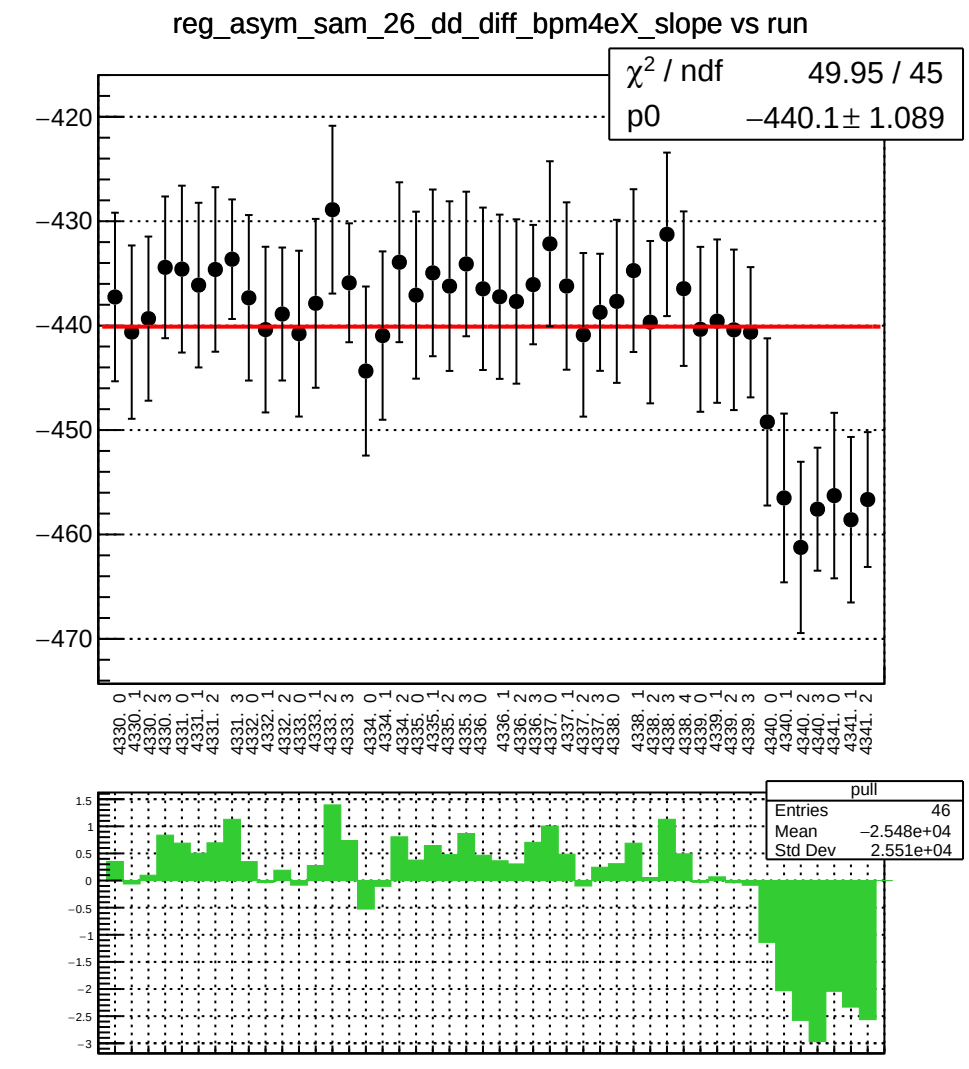

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 25.14 / 45
p0 −18.73 ± 0.6831
pull
Entries 46
Mean −292.8
Std Dev 315.6

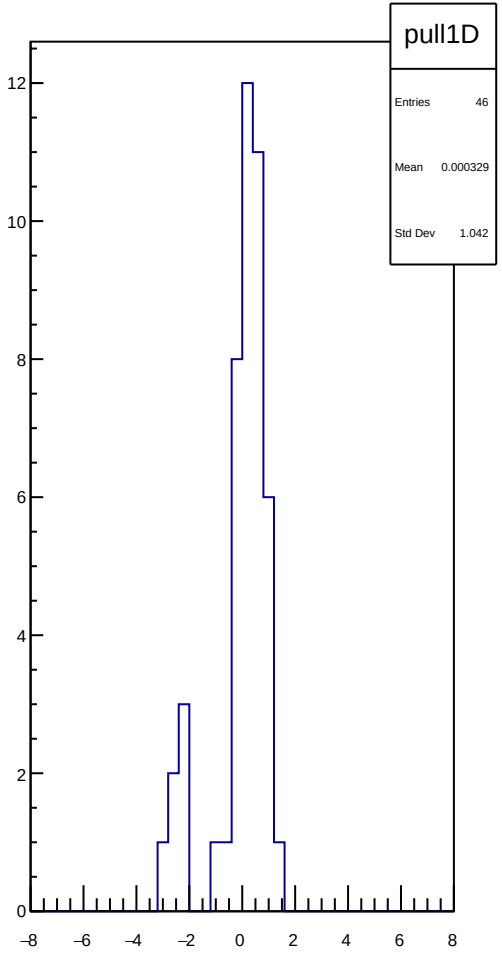

pull1D
Entries 46
Mean −0.007327
Std Dev 0.7393

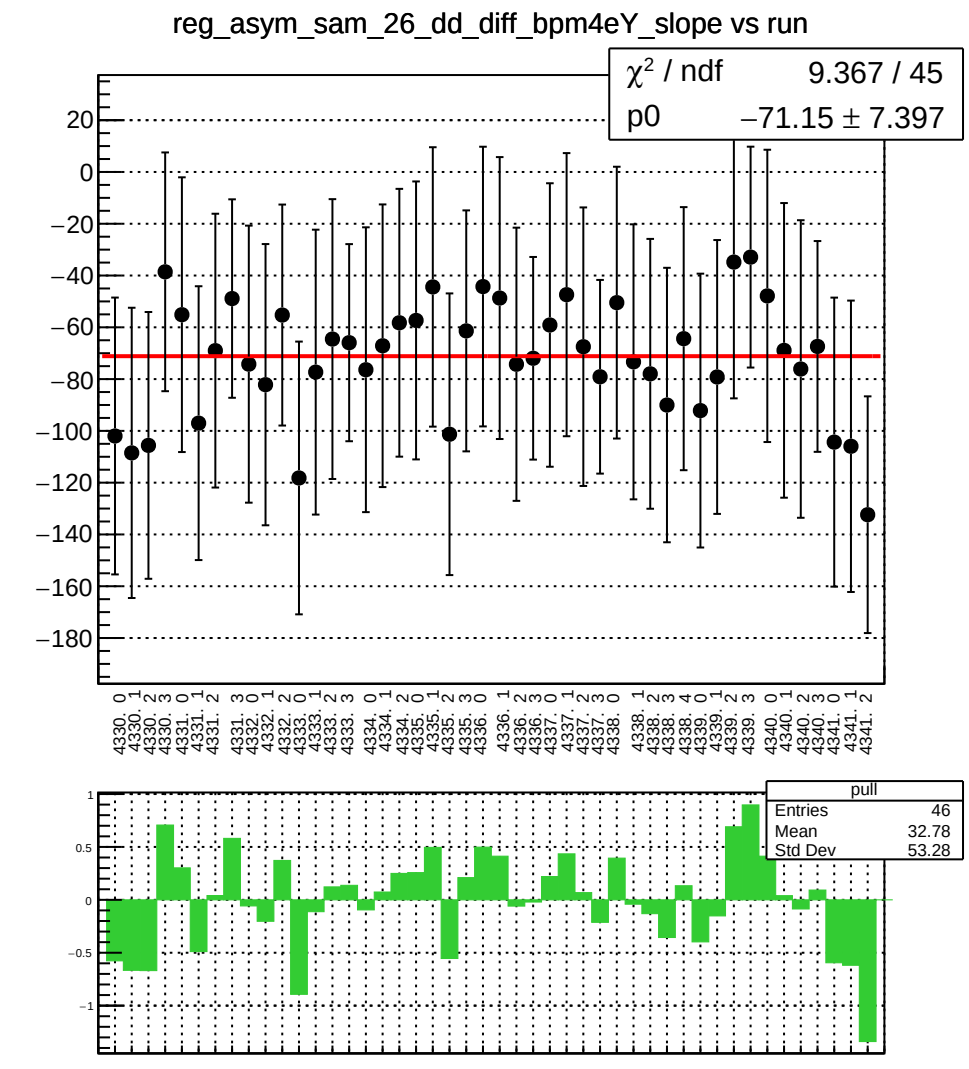

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.16 / 45
p0 −72.02 ± 6.225
50
0
−50
−100
−150
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −112.9
Std Dev 139
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.02199
Std Dev 0.6449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

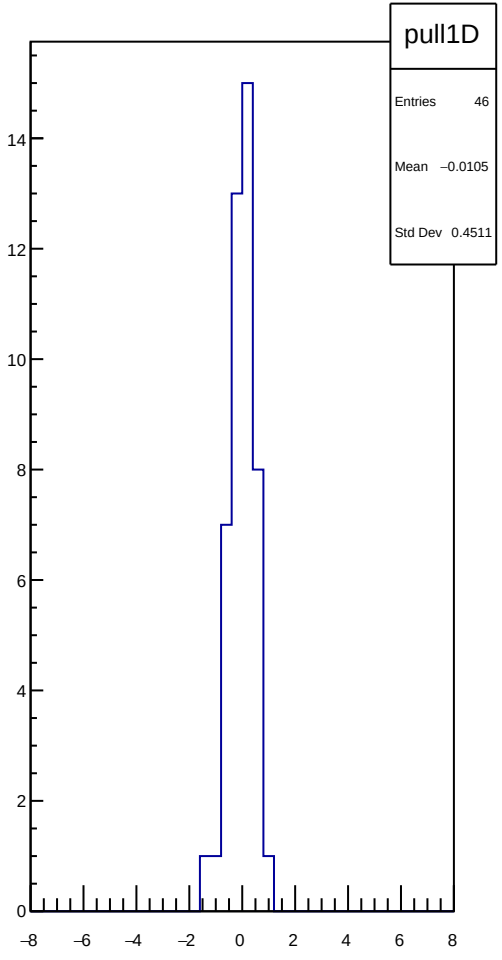

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 45
p0 128.8 ± 6.818
pull
Entries 46
Mean −19.93
Std Dev 24.21

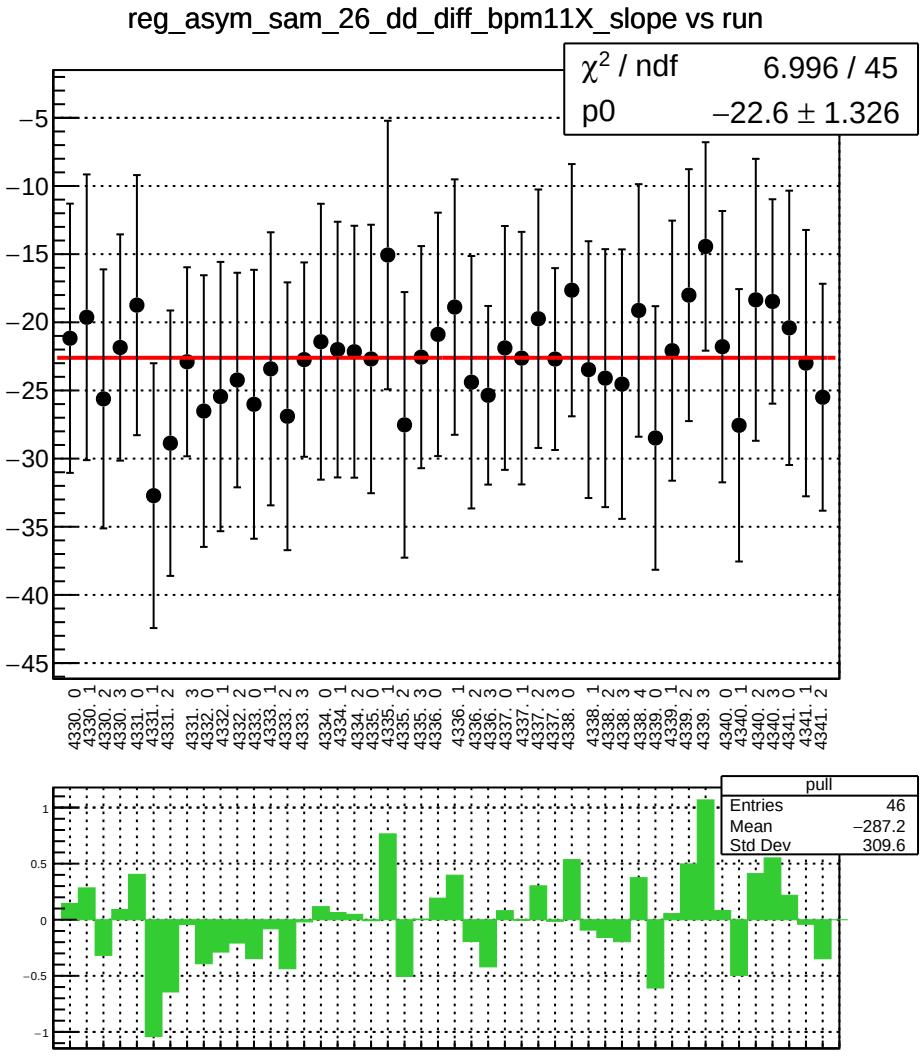

pull1D
Entries 46
Mean 0.01806
Std Dev 0.5168

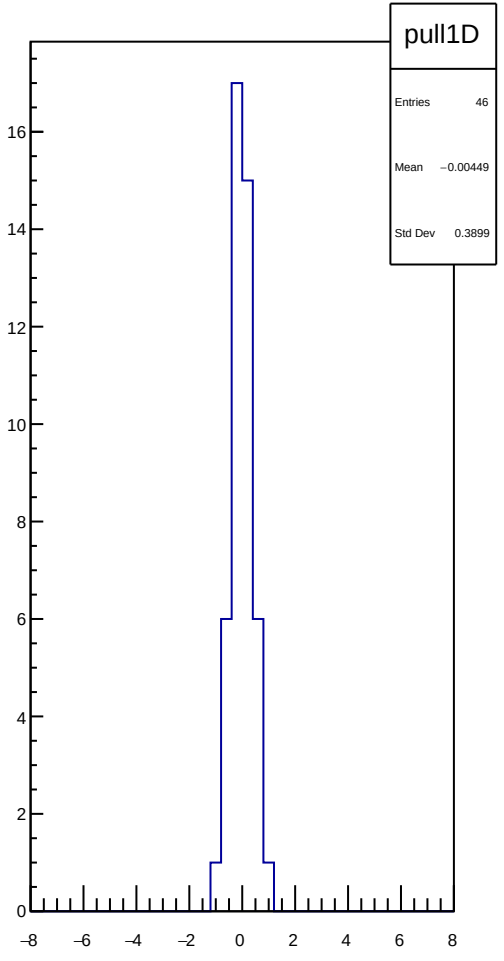

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.95 / 45
p0 −440.1± 1.089
−420
−430
−440
−450
−460
−470
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −2.548e+04
Std Dev 2.551e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

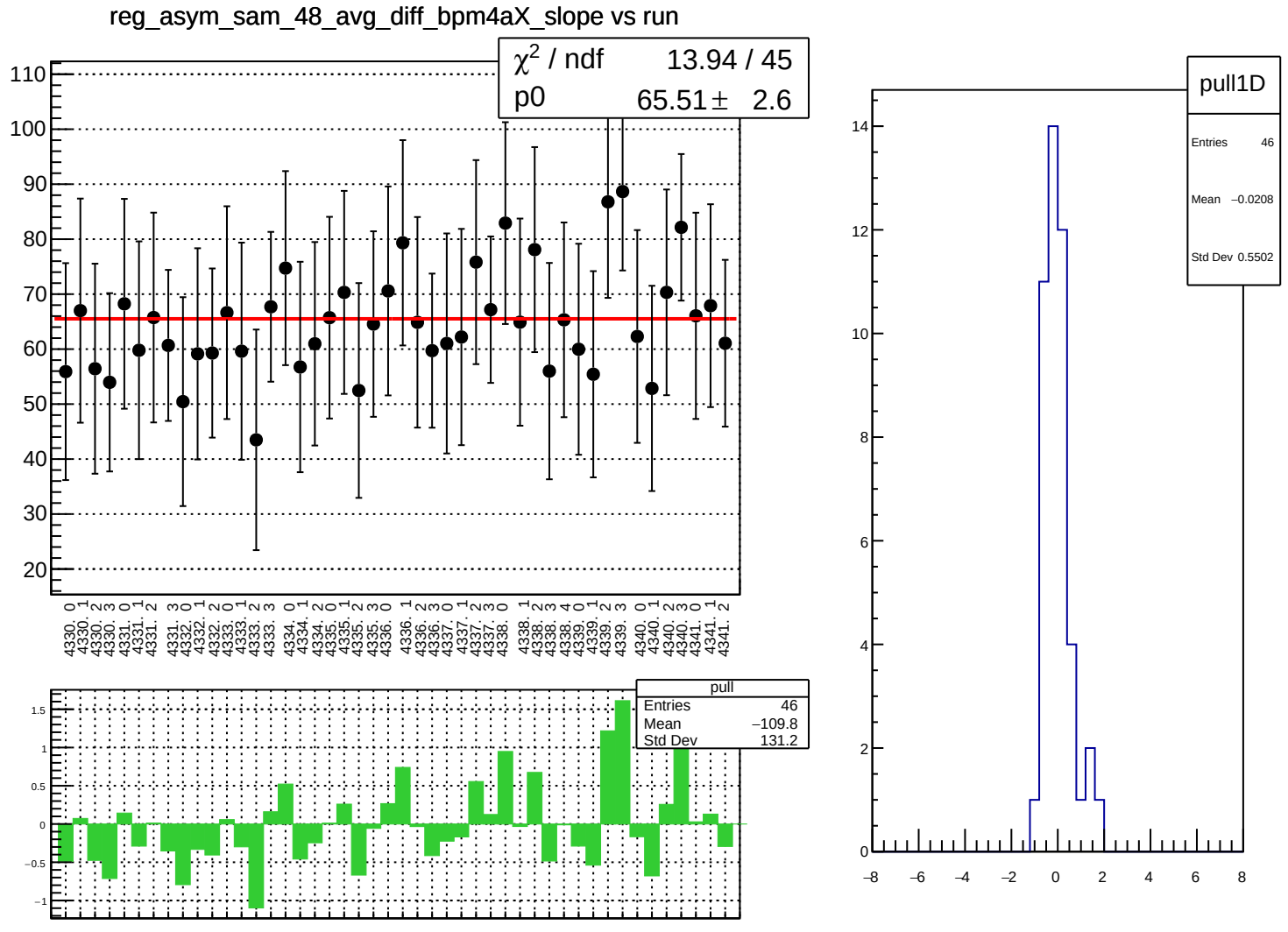

pull1D
Entries 46
Mean 0.000329
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

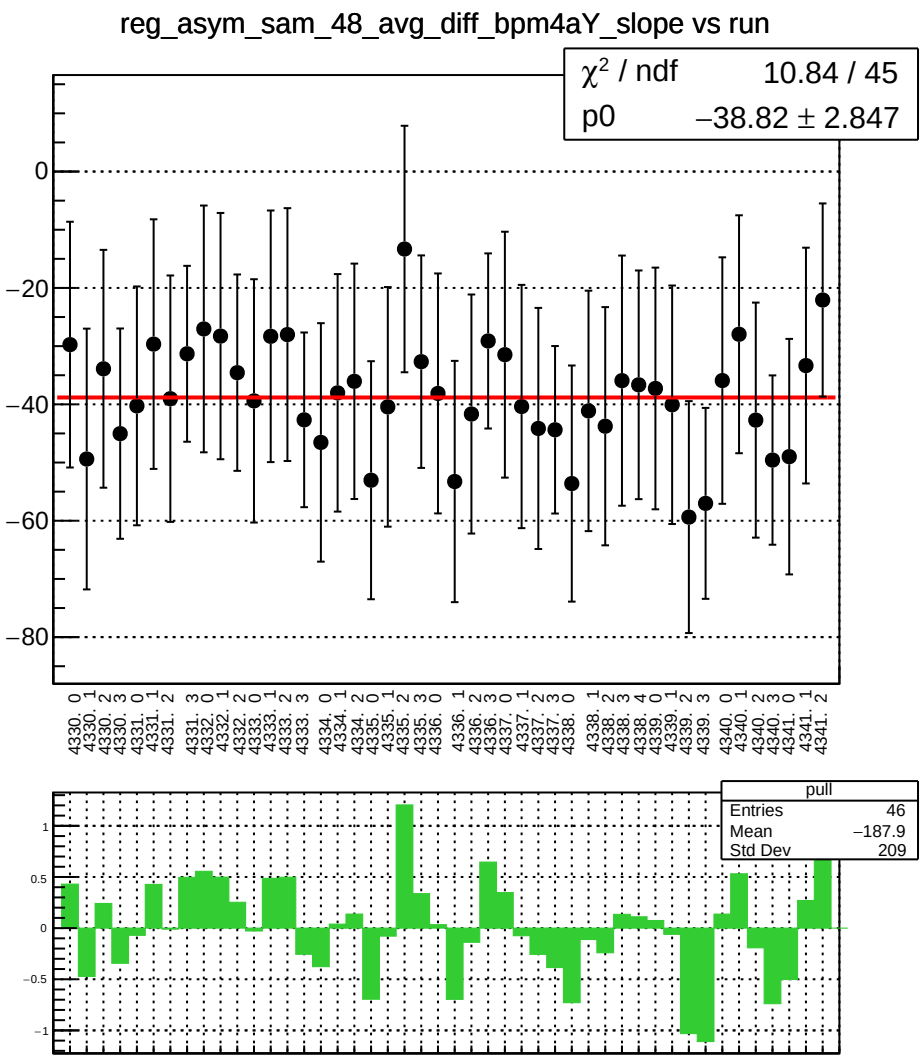

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.367 / 45
p0 −71.15 ± 7.397
pull
Entries 46
Mean 32.78
Std Dev 53.28

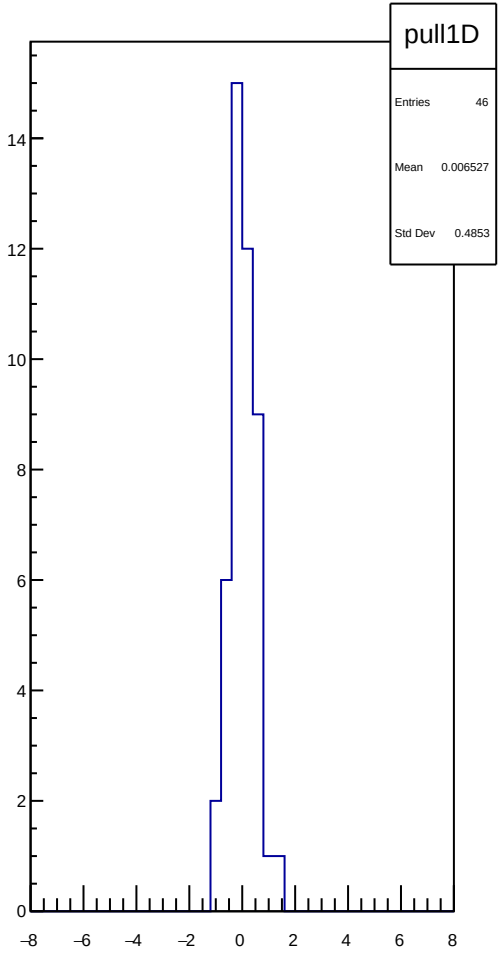

pull1D
Entries 46
Mean −0.0105
Std Dev 0.4511

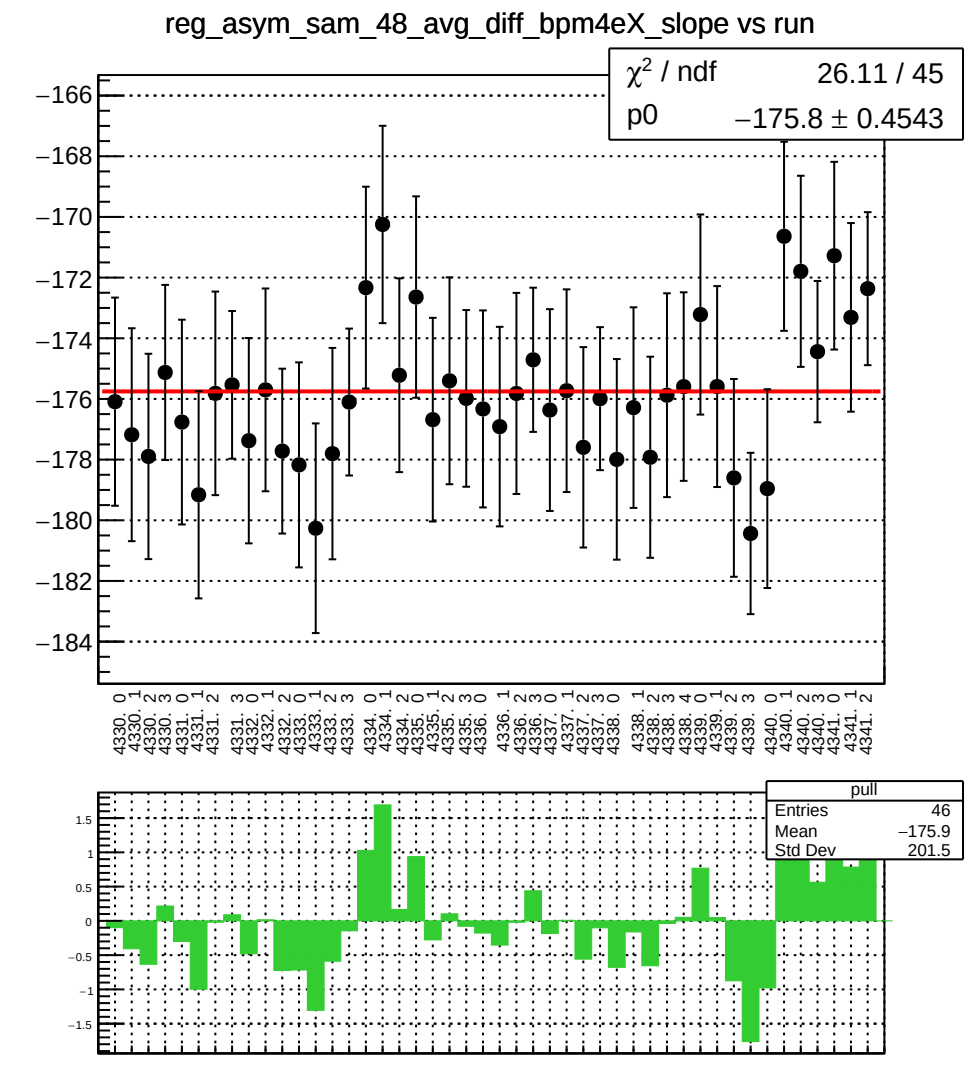

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 6.996 / 45
p0 −22.6 ± 1.326
pull
Entries 46
Mean −287.2
Std Dev 309.6

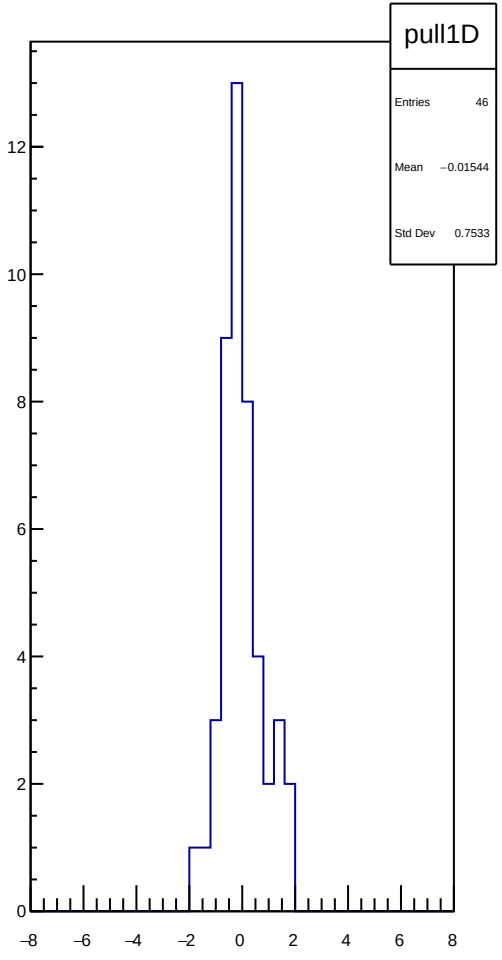

pull1D
Entries 46
Mean −0.00449
Std Dev 0.3899

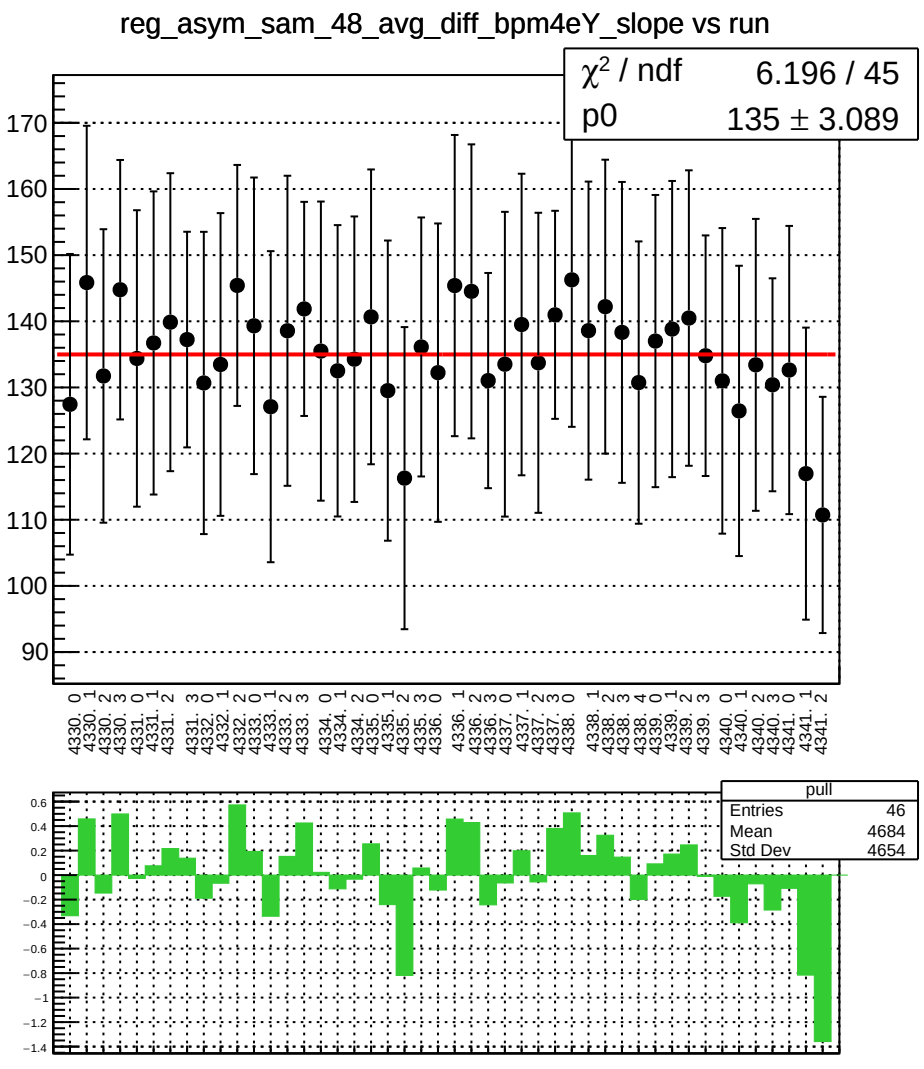

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ2 / ndf 13.94 / 45
p0 65.51 ± 2.6
pull
Entries 46
Mean −109.8
Std Dev 131.2
pull1D
Entries 46
Mean −0.0208
Std Dev 0.5502

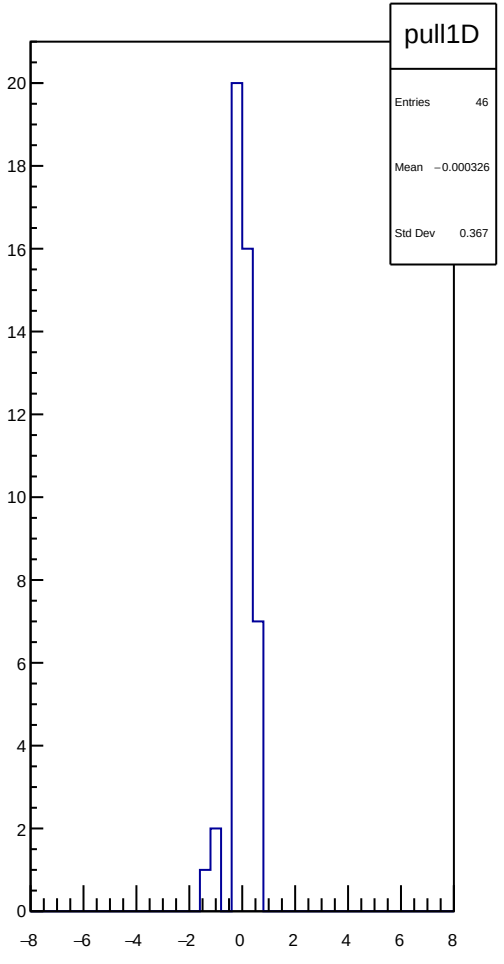

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.84 / 45
p0 −38.82 ± 2.847
0
−20
−40
−60
−80
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −187.9
Std Dev 209
1
0.5
0
−0.5
−1

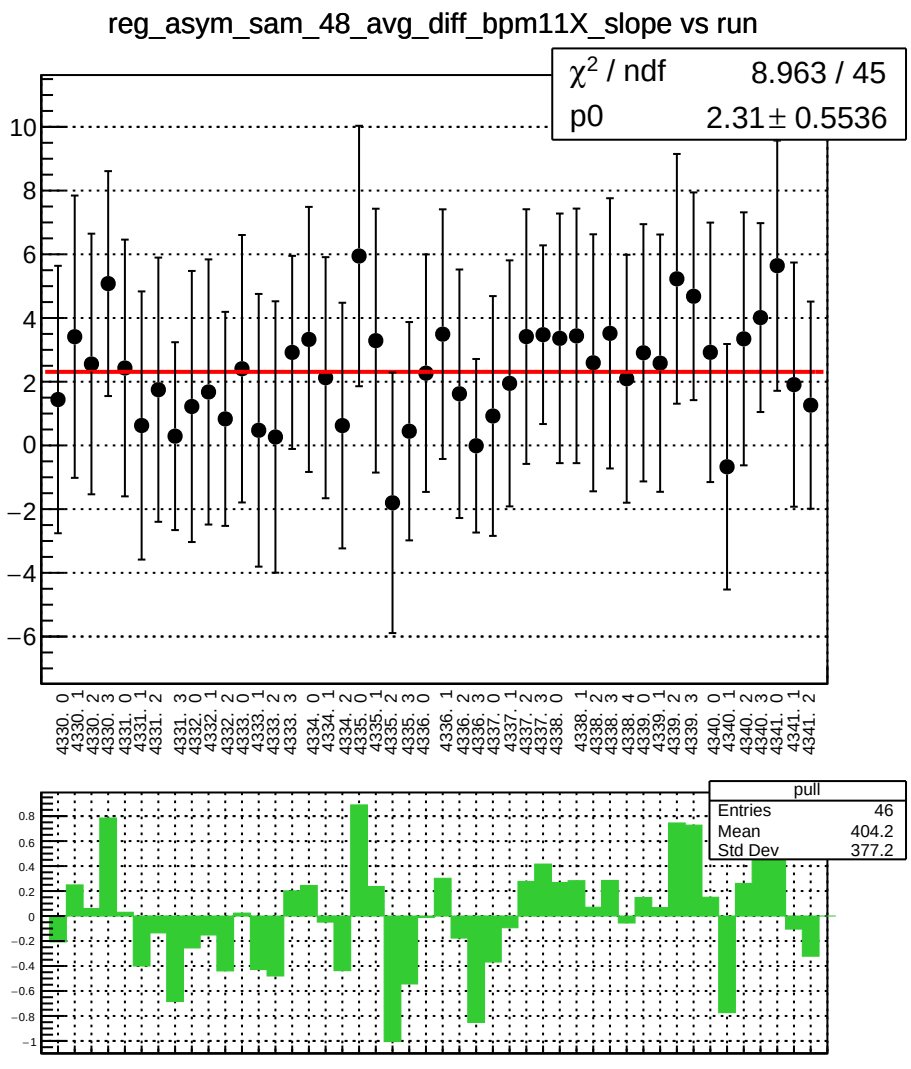

pull1D
Entries 46
Mean 0.006527
Std Dev 0.4853
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

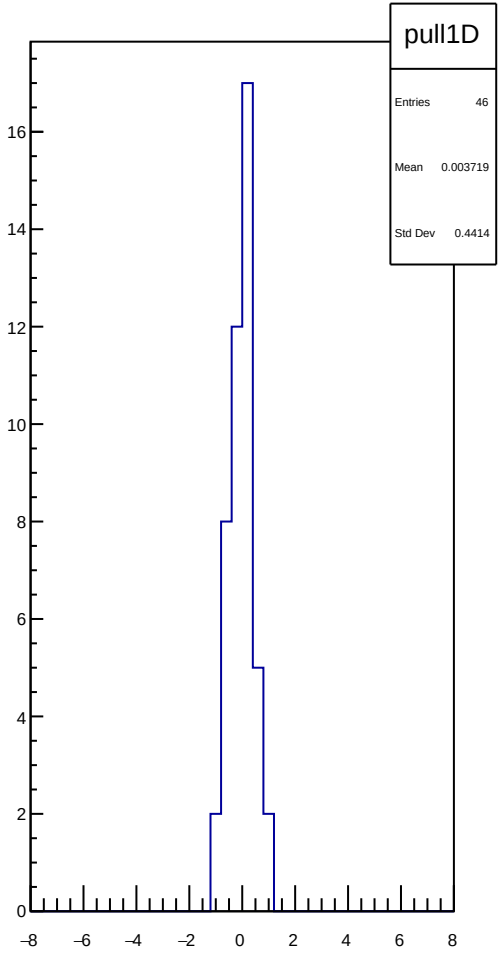

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.11 / 45
p0 −175.8 ± 0.4543
pull
Entries 46
Mean −175.9
Std Dev 201.5

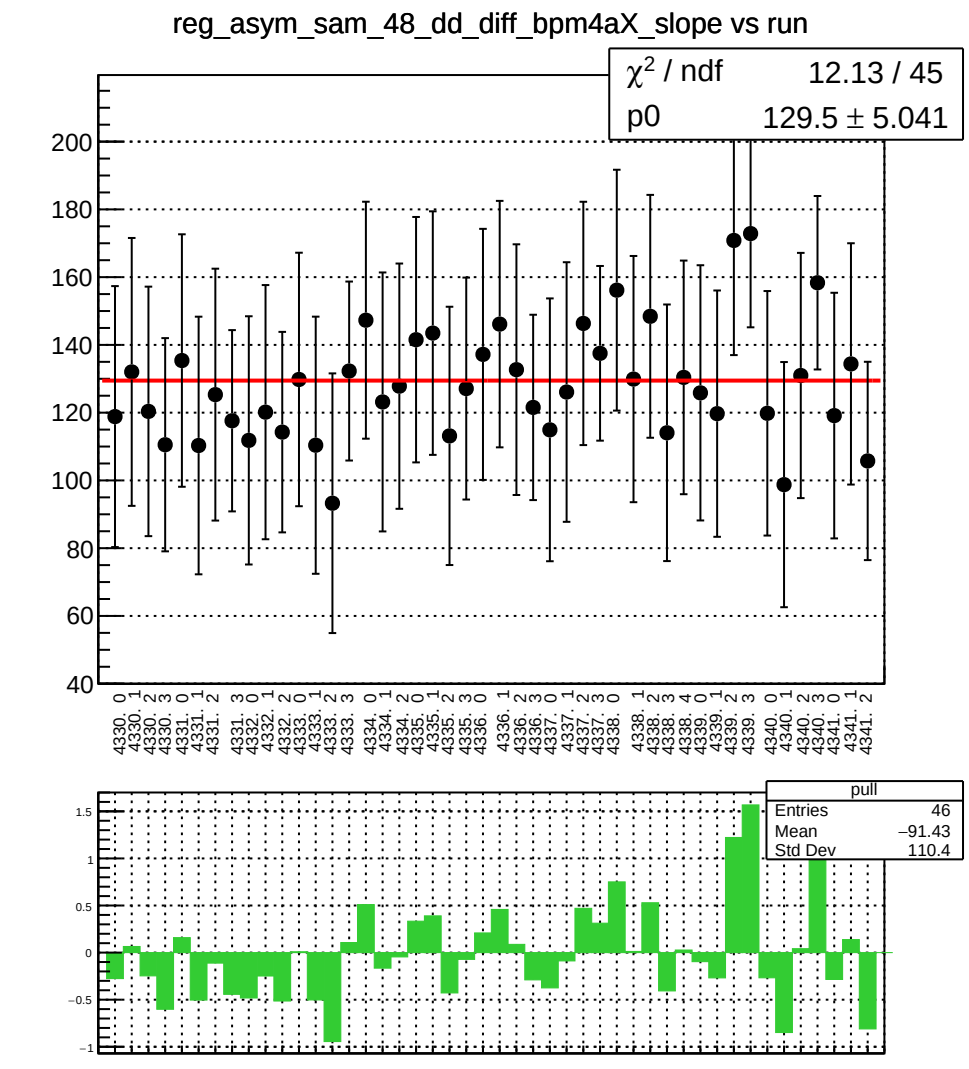

pull1D
Entries 46
Mean −0.01544
Std Dev 0.7533

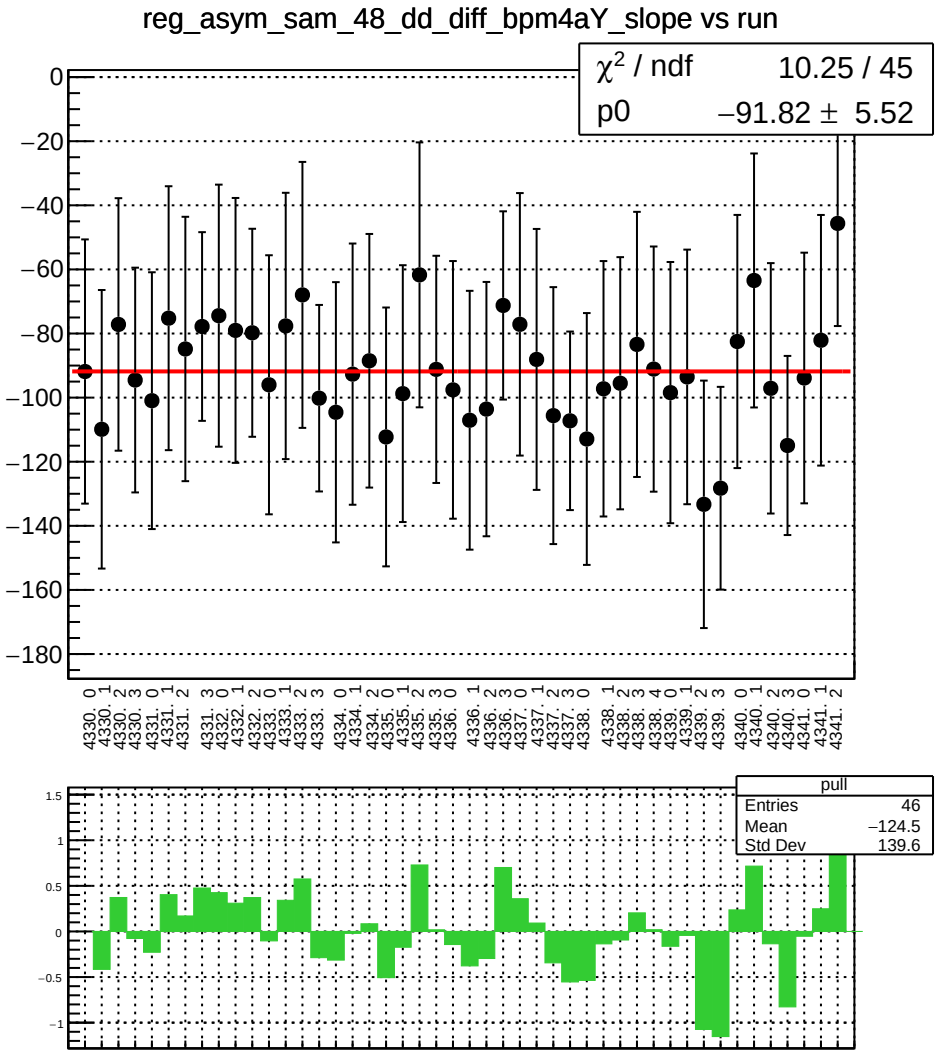

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.196 / 45
p0 135 ± 3.089
pull
Entries 46
Mean 4684
Std Dev 4654

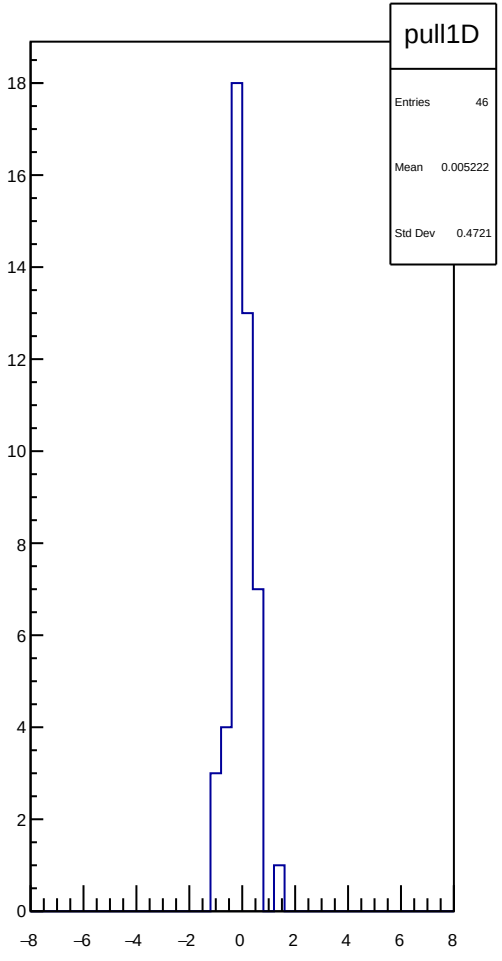

pull1D
Entries 46
Mean −0.000326
Std Dev 0.367

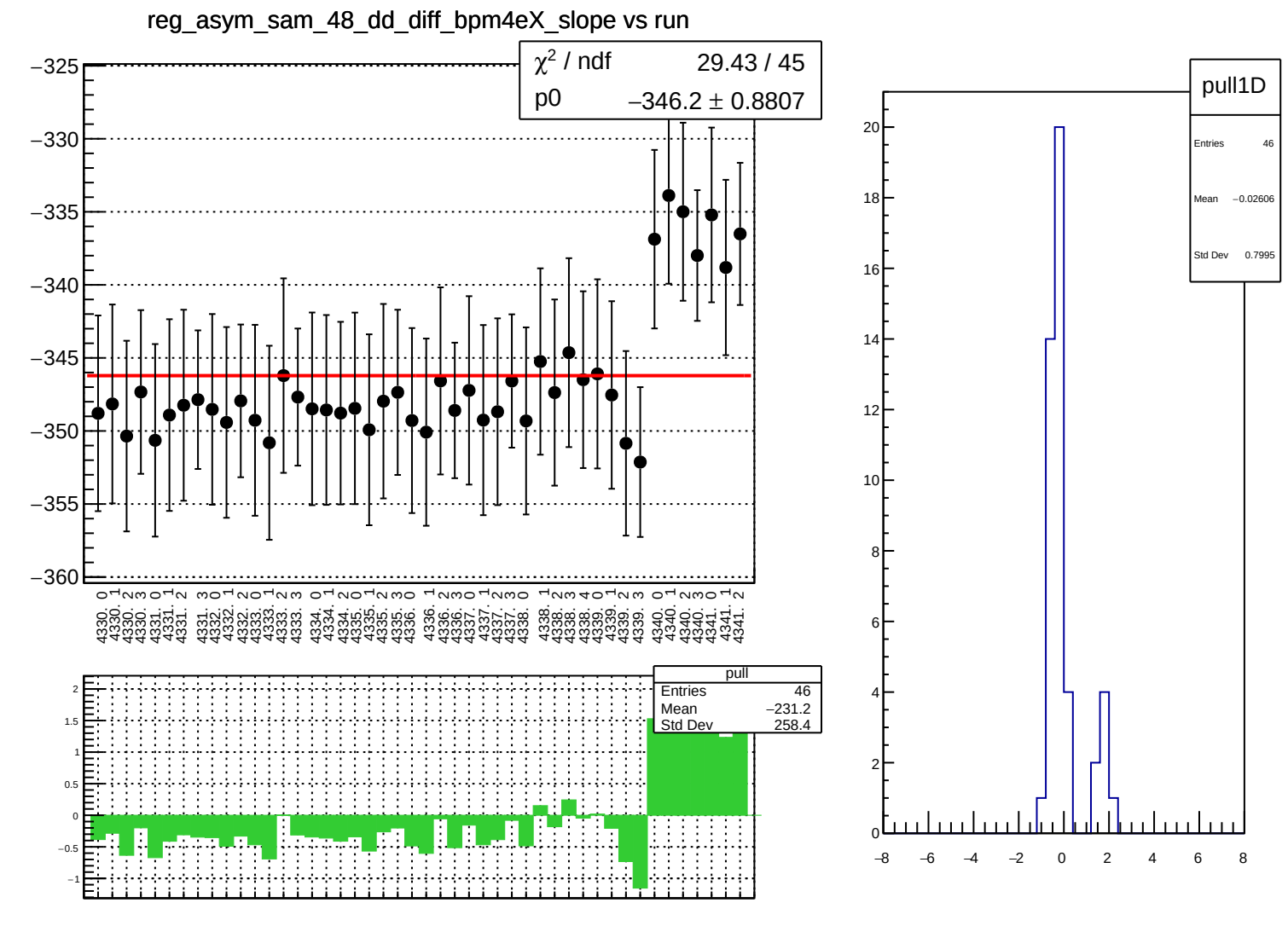

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 8.963 / 45
p0 2.31 ± 0.5536
pull
Entries 46
Mean 404.2
Std Dev 377.2

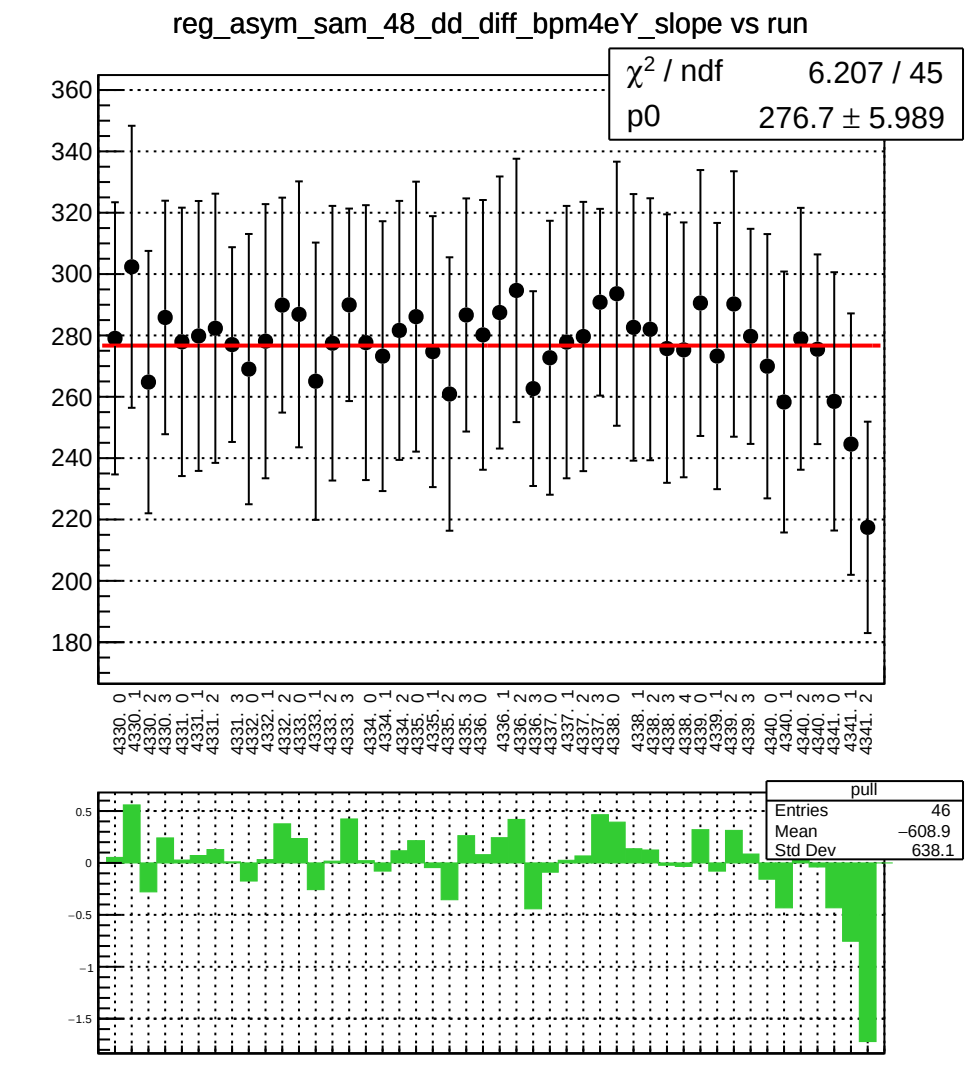

pull1D
Entries 46
Mean 0.003719
Std Dev 0.4414

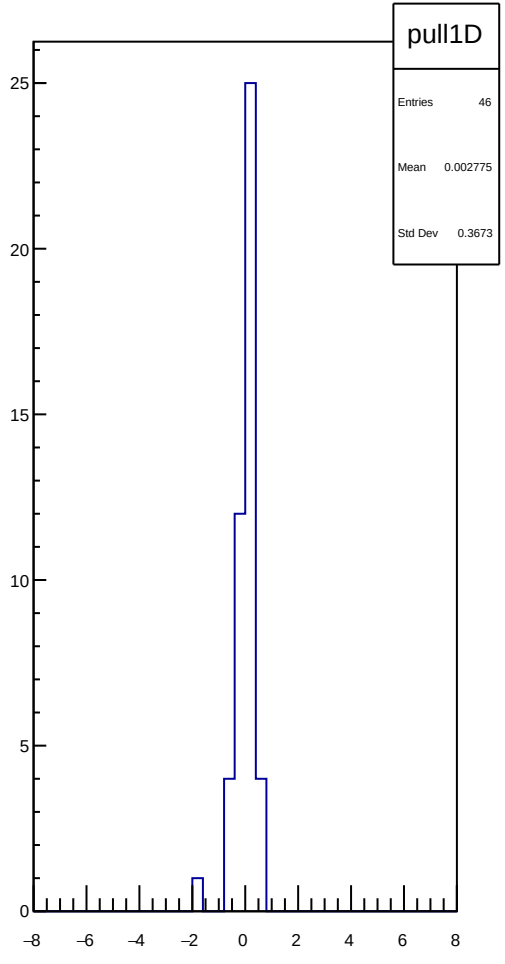

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.13 / 45
p0 129.5 ± 5.041
200
180
160
140
120
100
80
60
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −91.43
Std Dev 110.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 46
Mean −0.01726
Std Dev 0.5131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

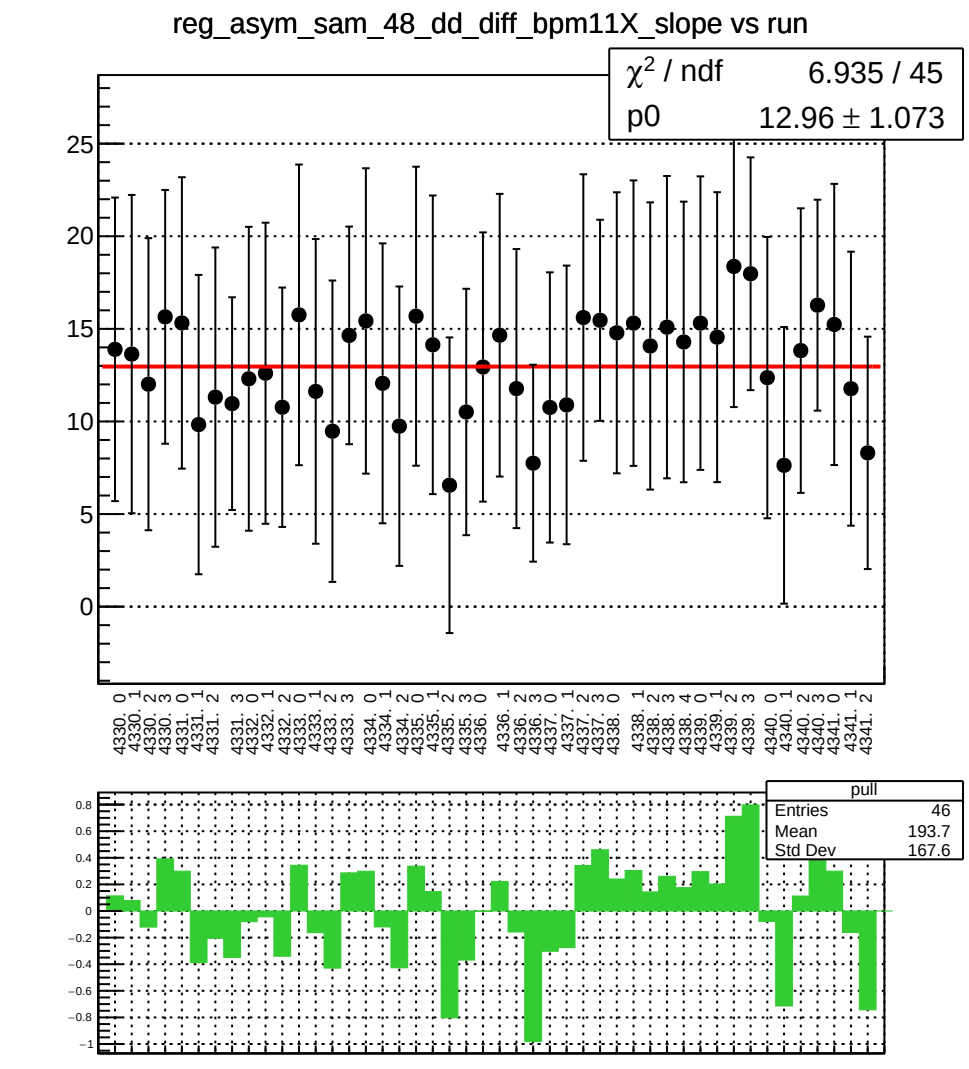

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 45
p0 −91.82 ± 5.52
pull
Entries 46
Mean −124.5
Std Dev 139.6

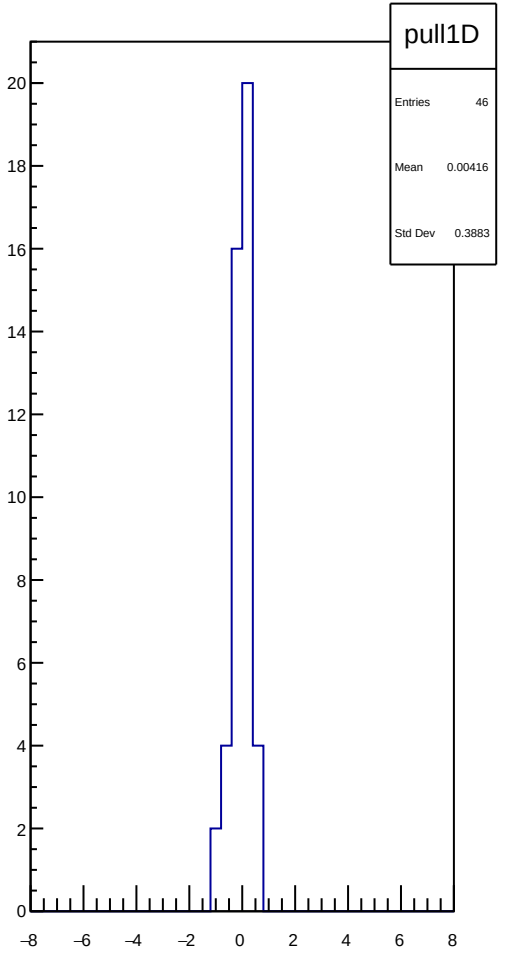

pull1D
Entries 46
Mean 0.005222
Std Dev 0.4721

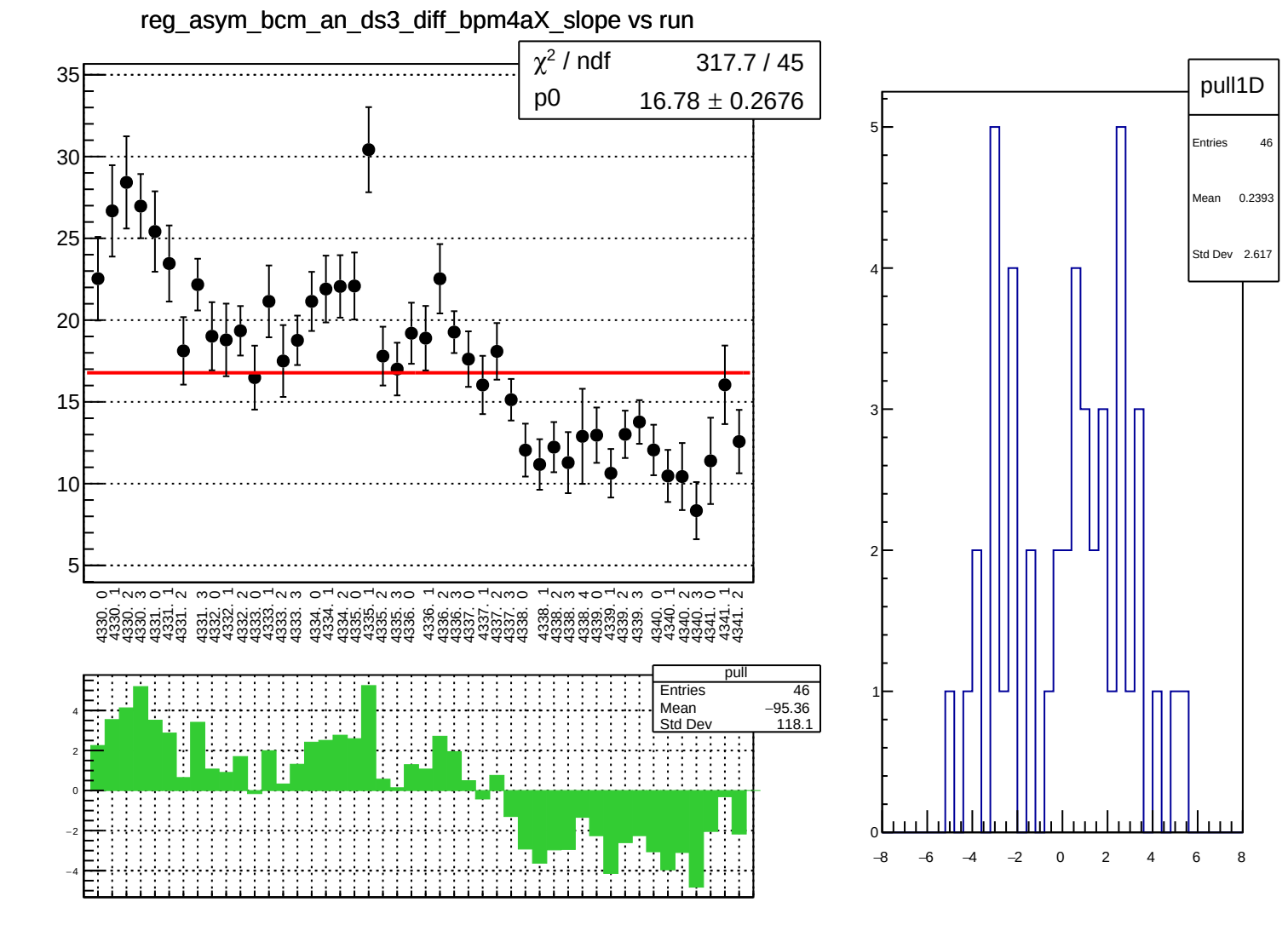

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.43 / 45
p0 −346.2 ± 0.8807
pull
Entries 46
Mean −231.2
Std Dev 258.4
pull1D
Entries 46
Mean −0.02606
Std Dev 0.7995

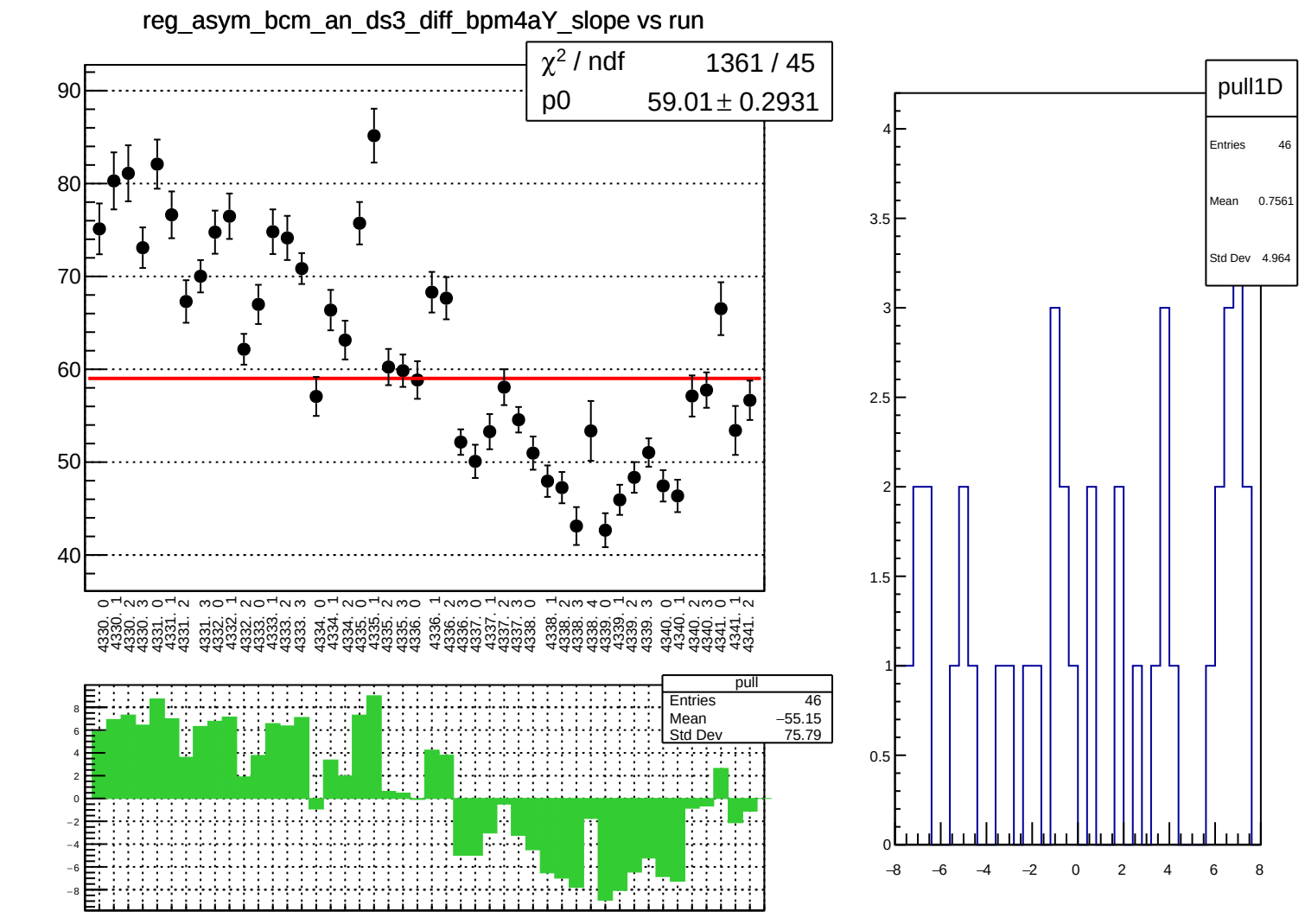

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.207 / 45
p0 276.7 ± 5.989
pull
Entries 46
Mean −608.9
Std Dev 638.1

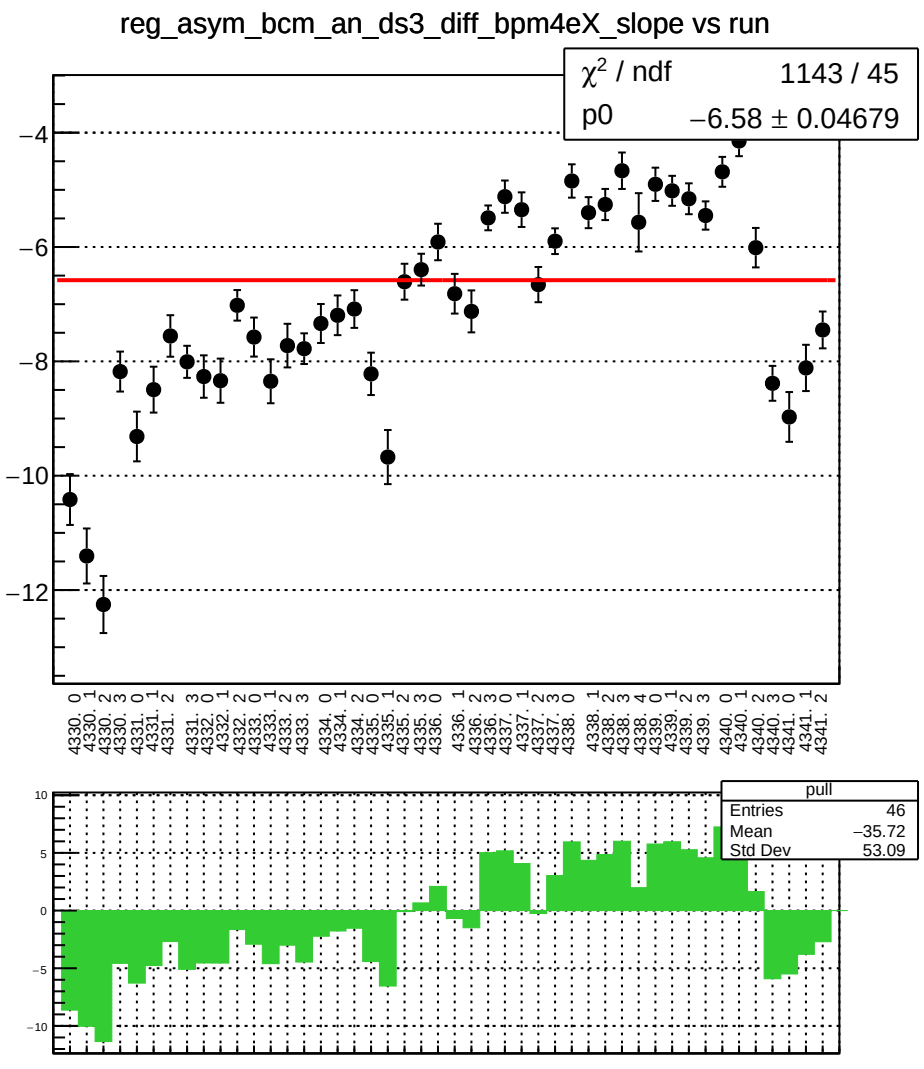

pull1D
Entries 46
Mean 0.002775
Std Dev 0.3673

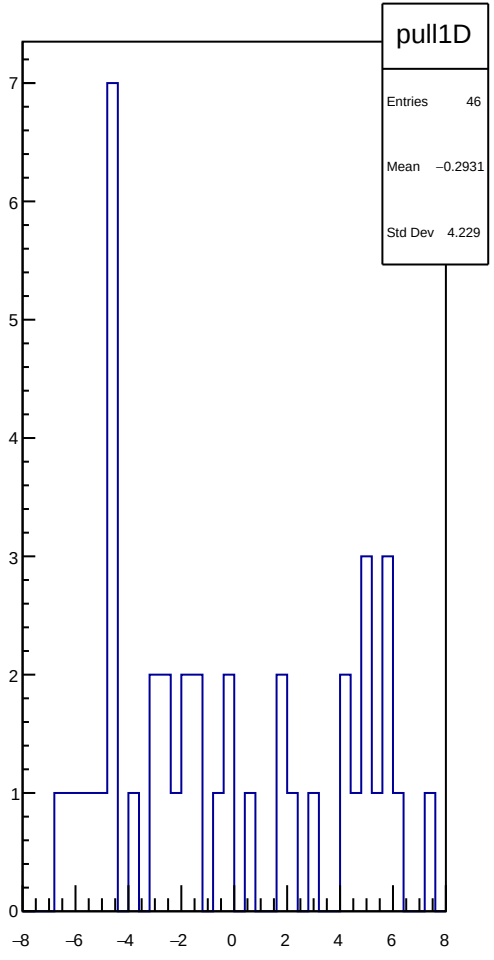

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 6.935 / 45
p0 12.96 ± 1.073
pull
Entries 46
Mean 193.7
Std Dev 167.6

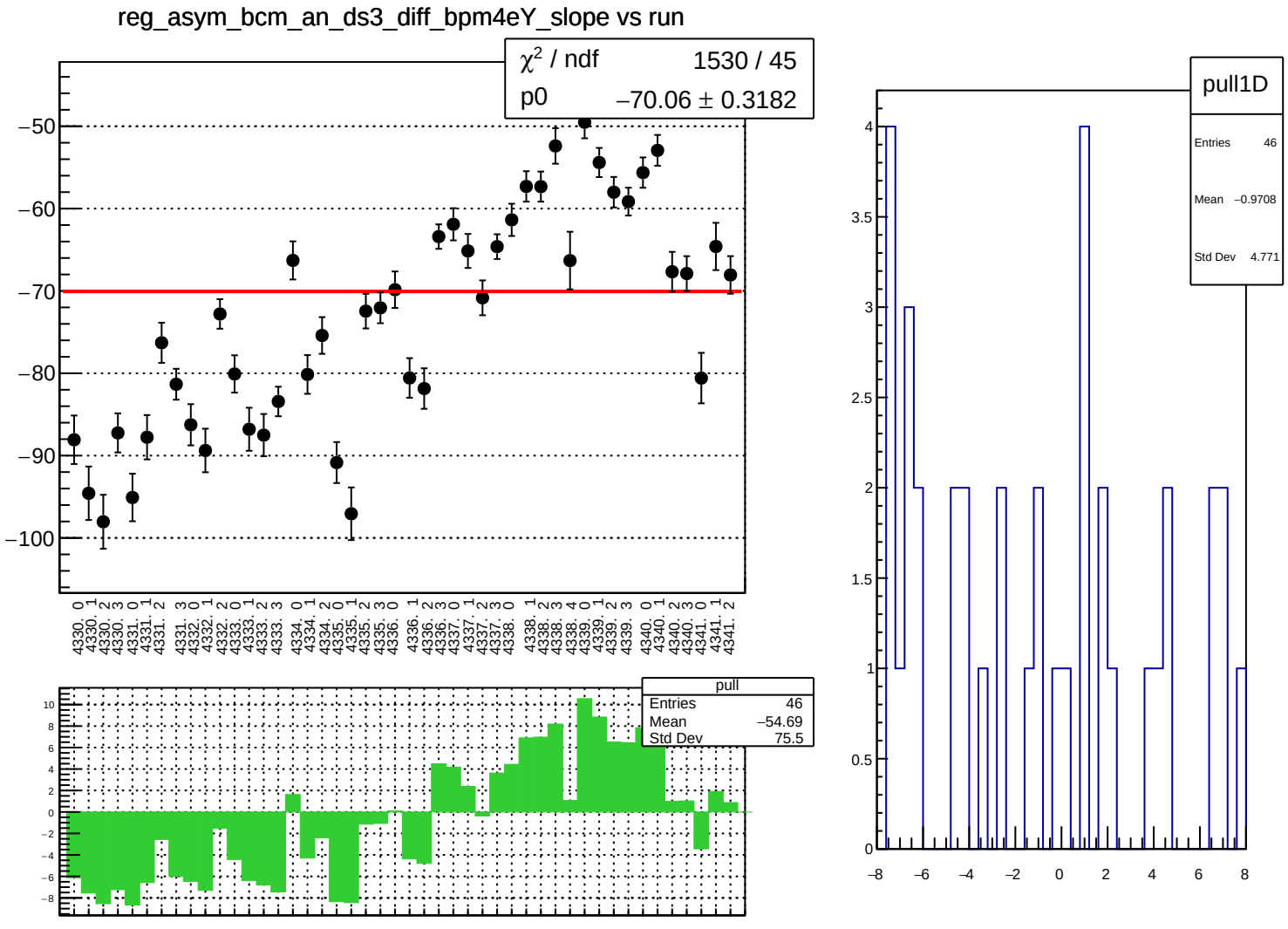

pull1D
Entries 46
Mean 0.00416
Std Dev 0.3883

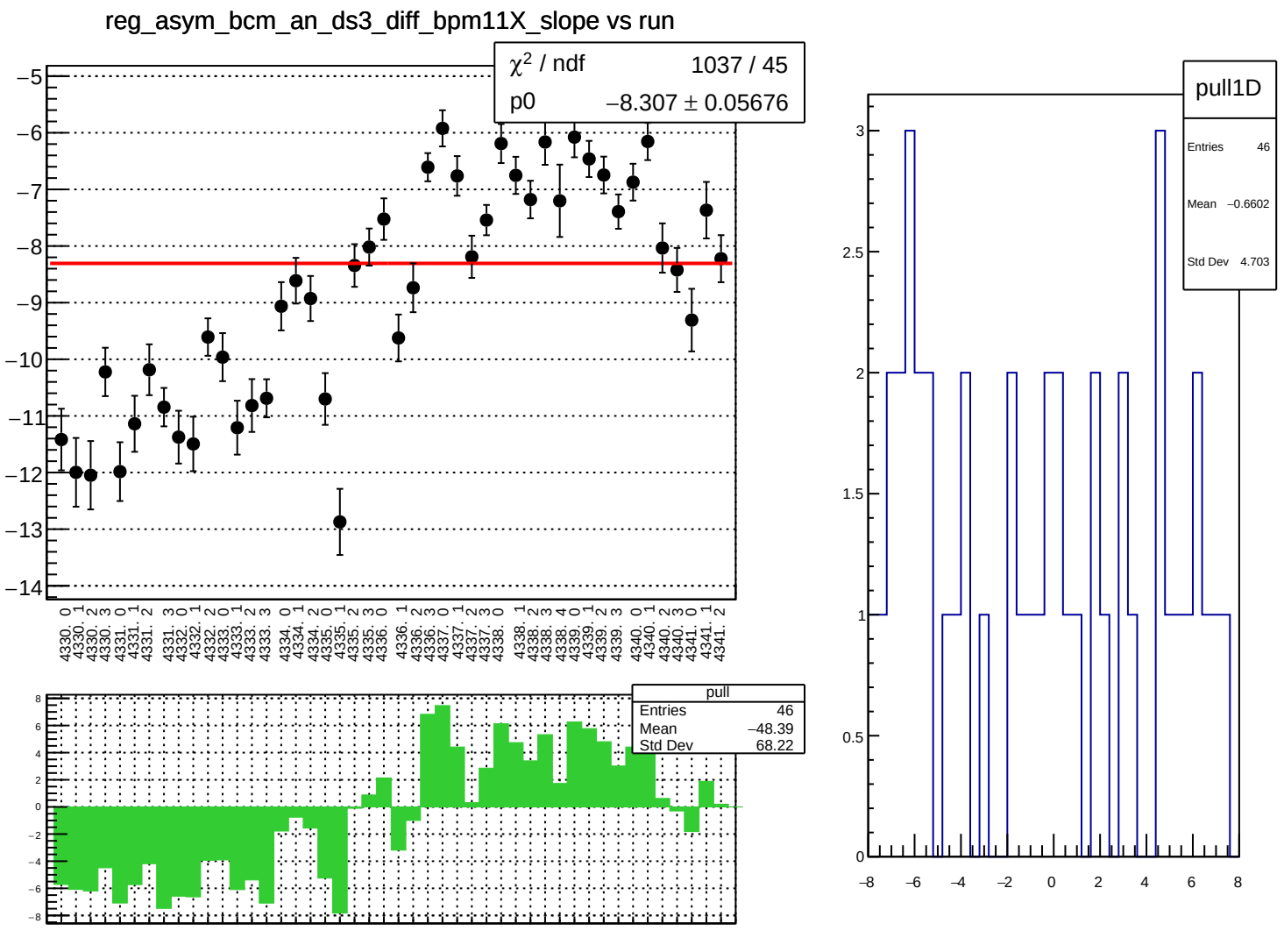

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 317.7 / 45
p0 16.78 ± 0.2676
pull
Entries 46
Mean −95.36
Std Dev 118.1
pull1D
Entries 46
Mean 0.2393
Std Dev 2.617

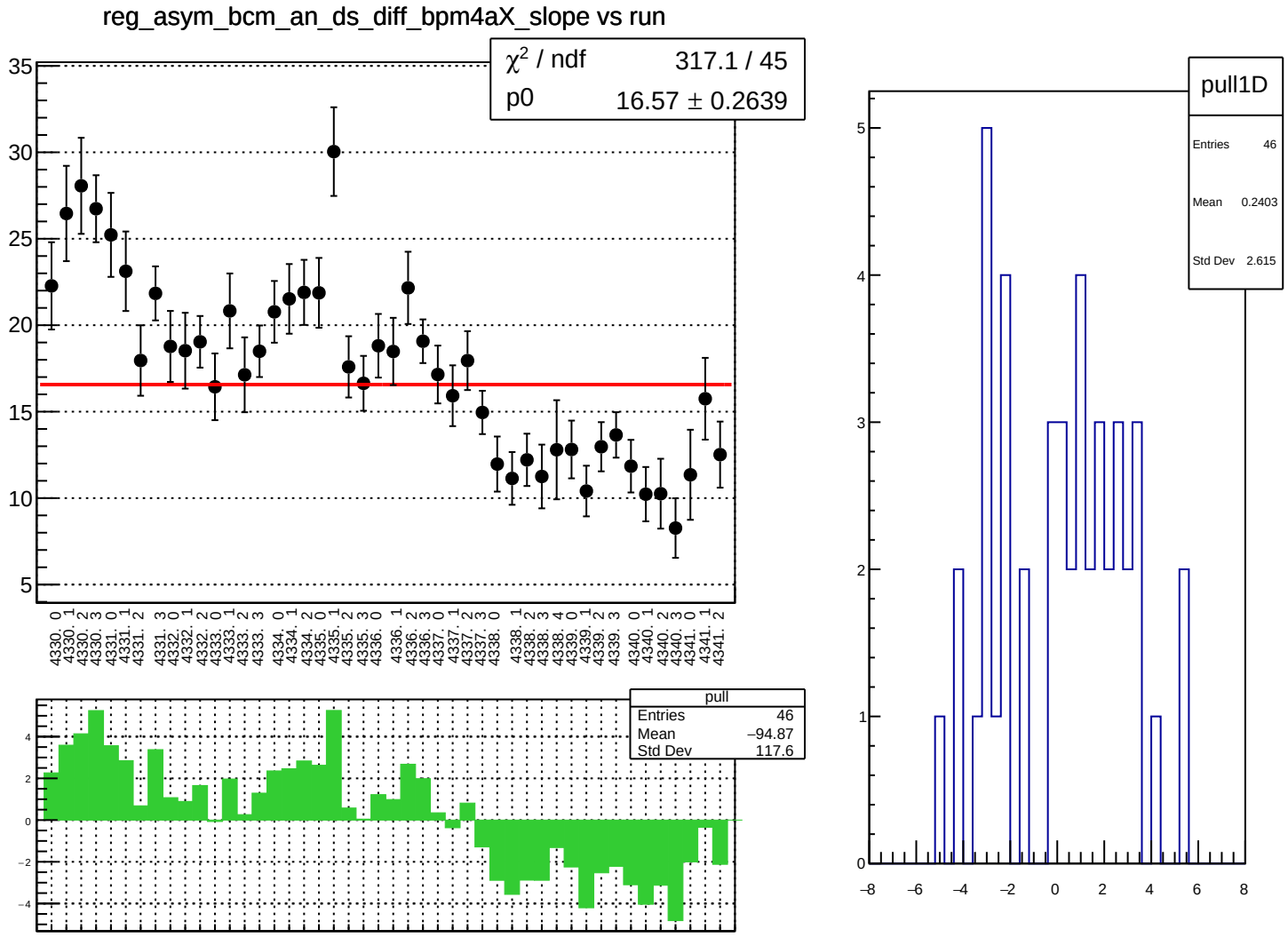

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 1361 / 45
p0 59.01 ± 0.2931
pull
Entries 46
Mean −55.15
Std Dev 75.79
pull1D
Entries 46
Mean 0.7561
Std Dev 4.964

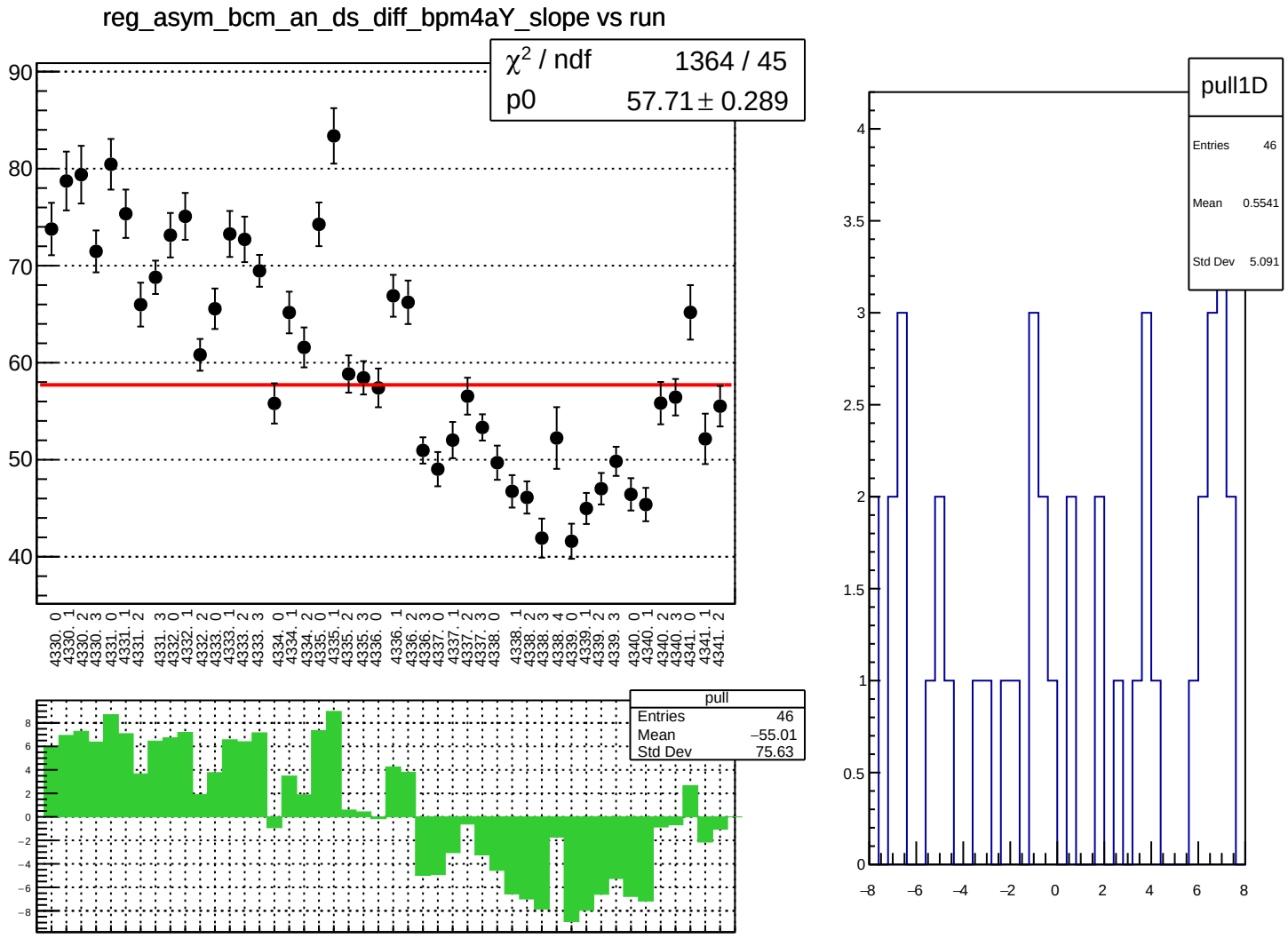

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1143 / 45
p0 −6.58 ± 0.04679
pull
Entries 46
Mean −35.72
Std Dev 53.09

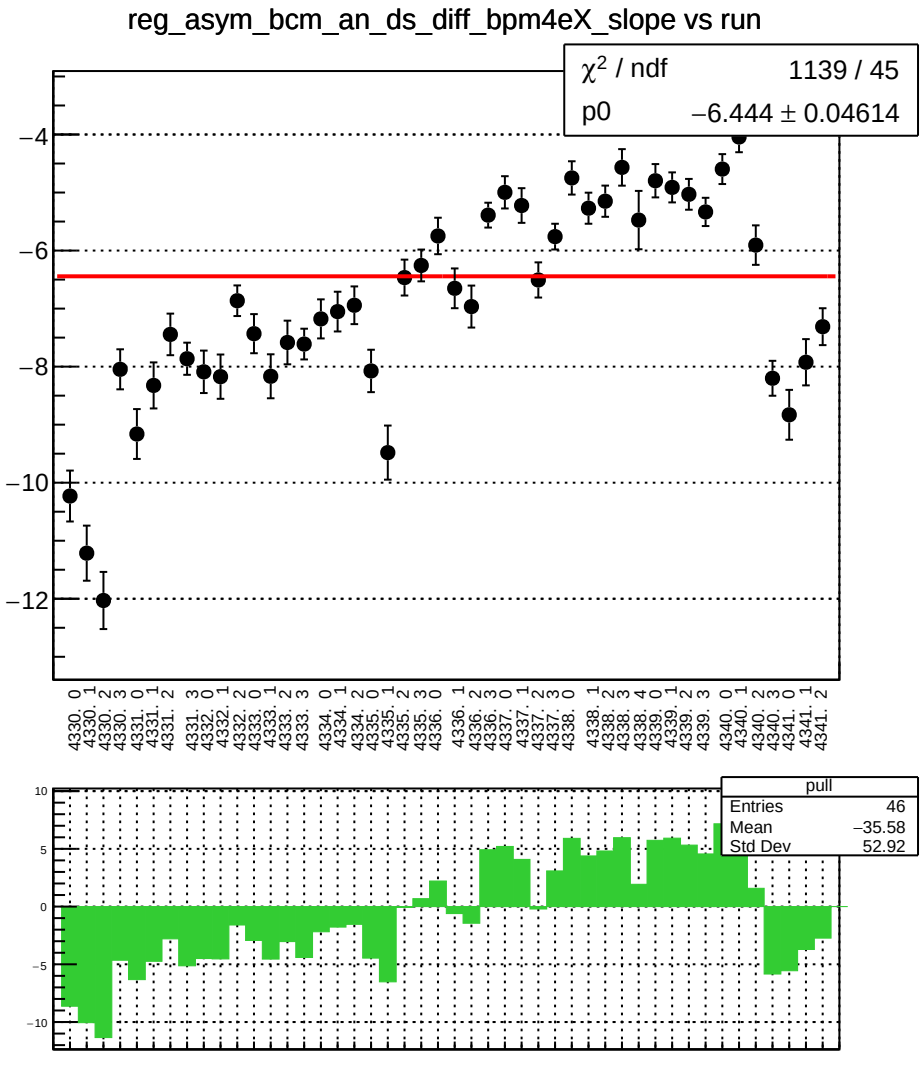

pull1D
Entries 46
Mean −0.2931
Std Dev 4.229

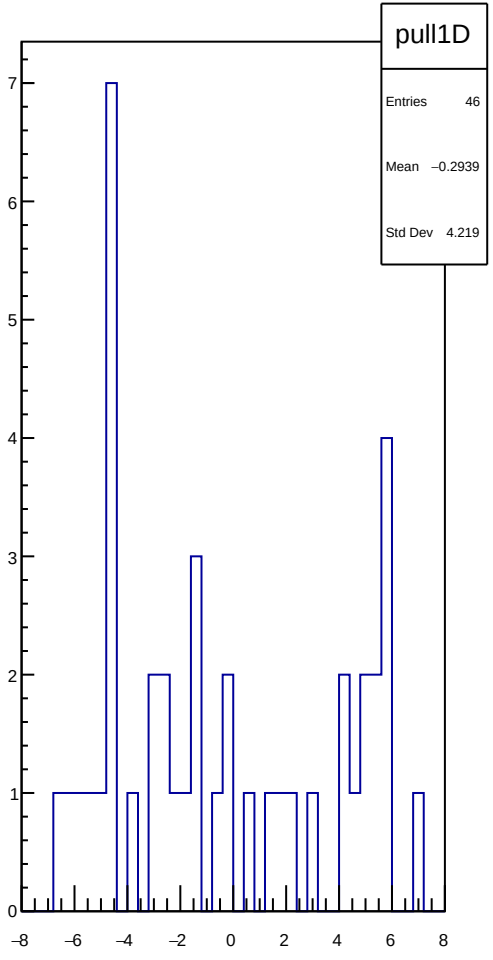

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 1530 / 45
p0 −70.06 ± 0.3182
pull
Entries 46
Mean −54.69
Std Dev 75.5
pull1D
Entries 46
Mean −0.9708
Std Dev 4.771

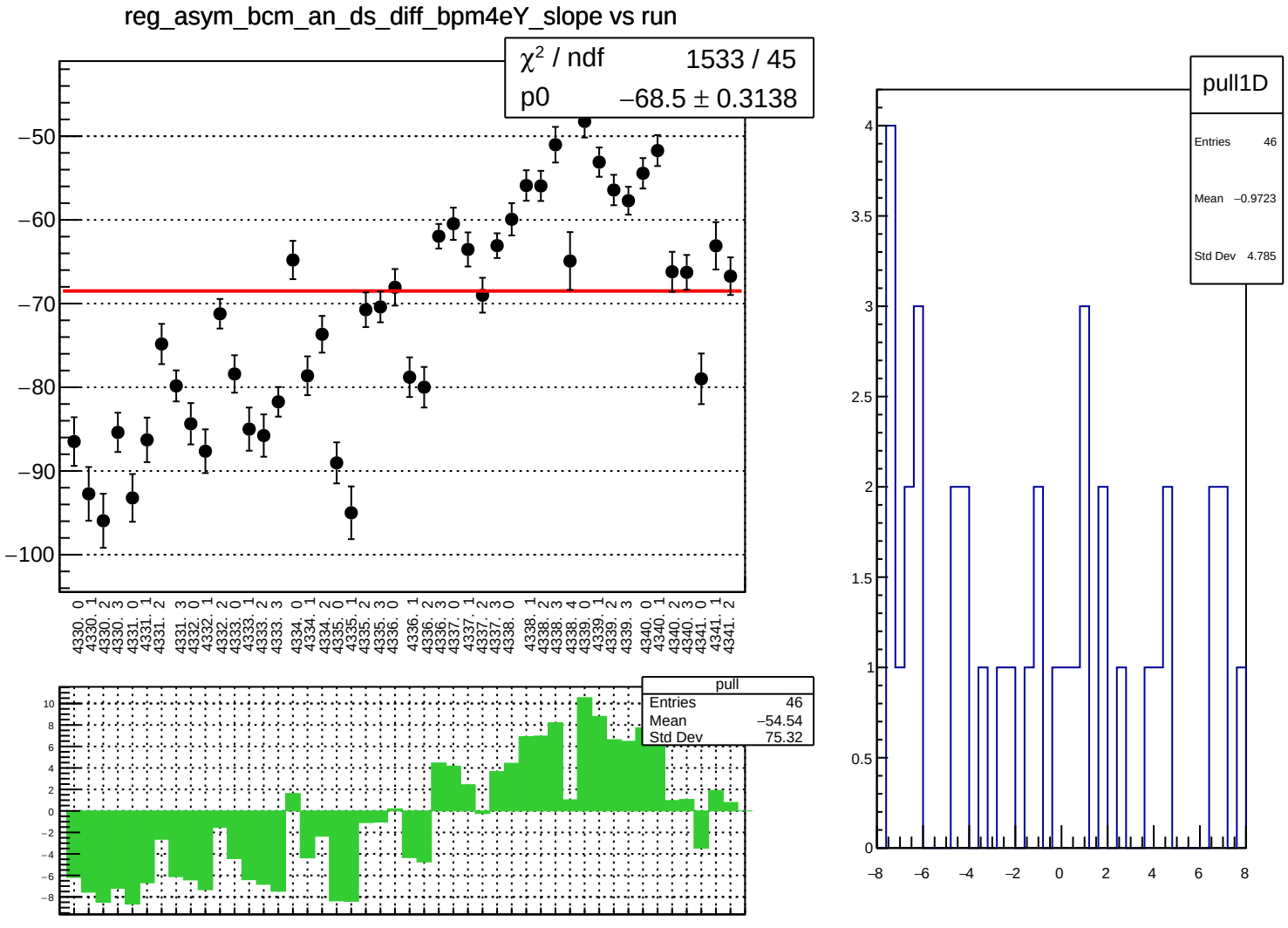

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 1037 / 45
p0 −8.307 ± 0.05676
pull
Entries 46
Mean −48.39
Std Dev 68.22
pull1D
Entries 46
Mean −0.6602
Std Dev 4.703

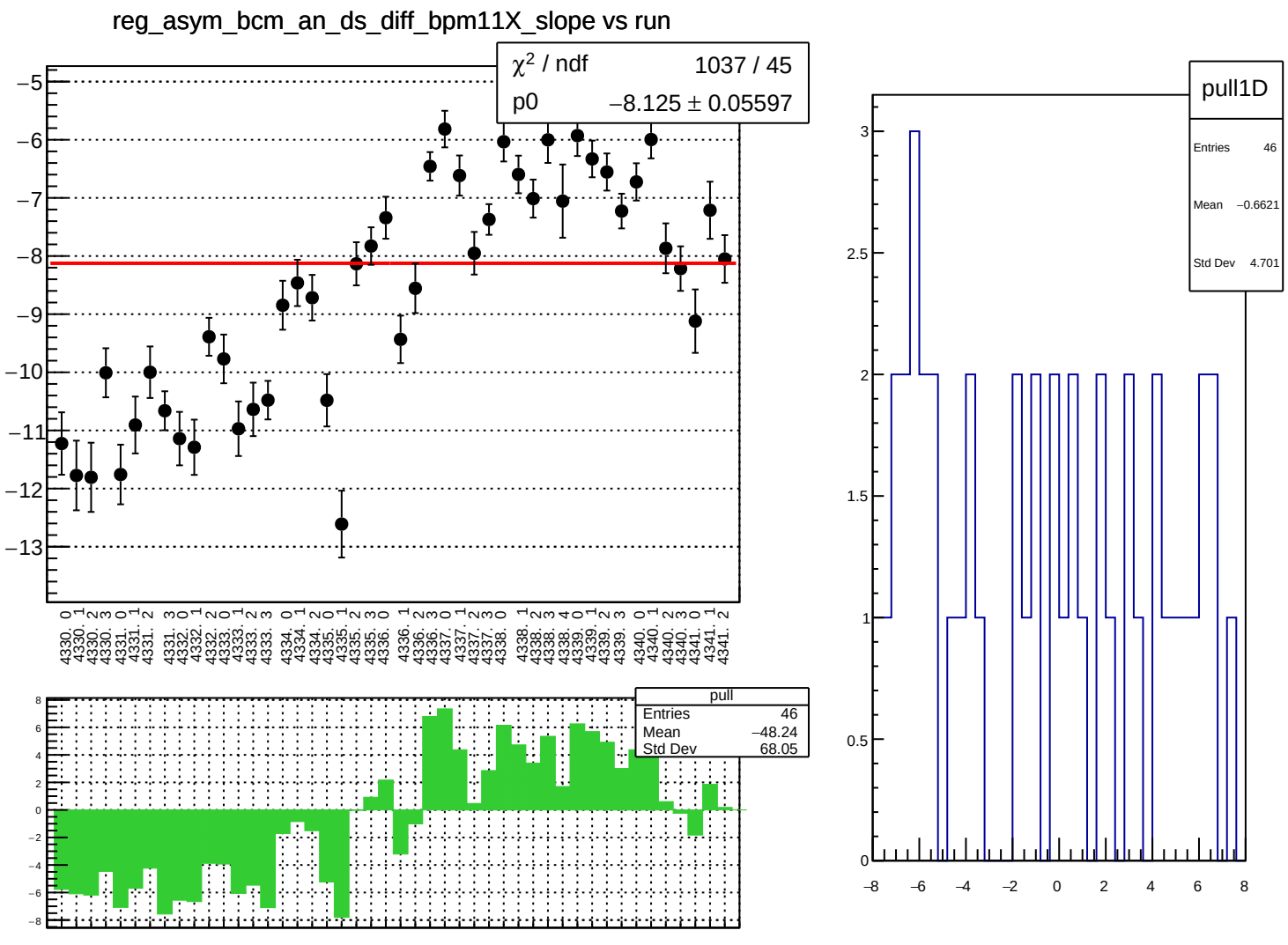

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 317.1 / 45
p0 16.57 ± 0.2639
pull
Entries 46
Mean −94.87
Std Dev 117.6
pull1D
Entries 46
Mean 0.2403
Std Dev 2.615

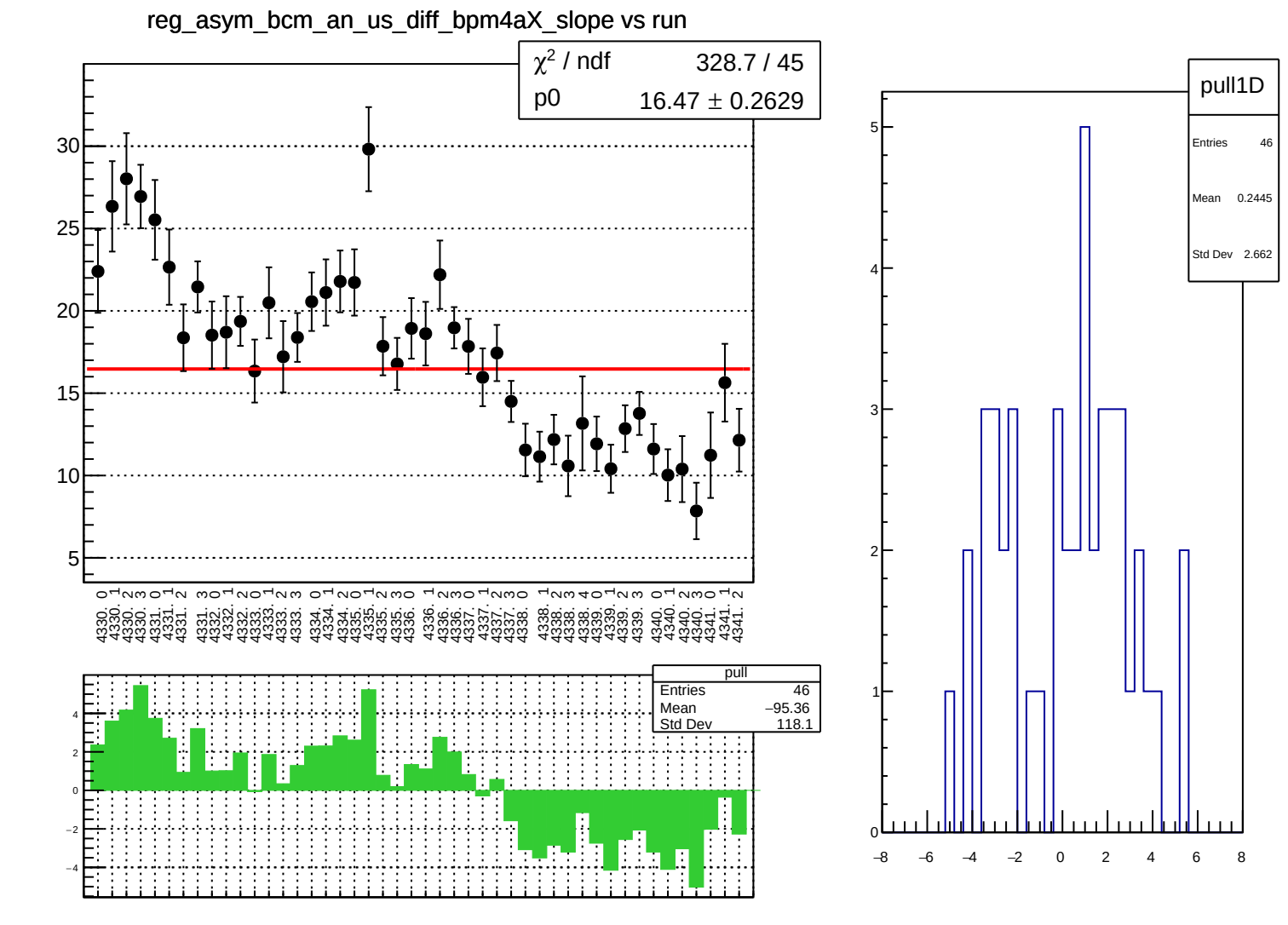

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 1364 / 45
p0 57.71 ± 0.289
90
80
70
60
50
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −55.01
Std Dev 75.63
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 46
Mean 0.5541
Std Dev 5.091
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

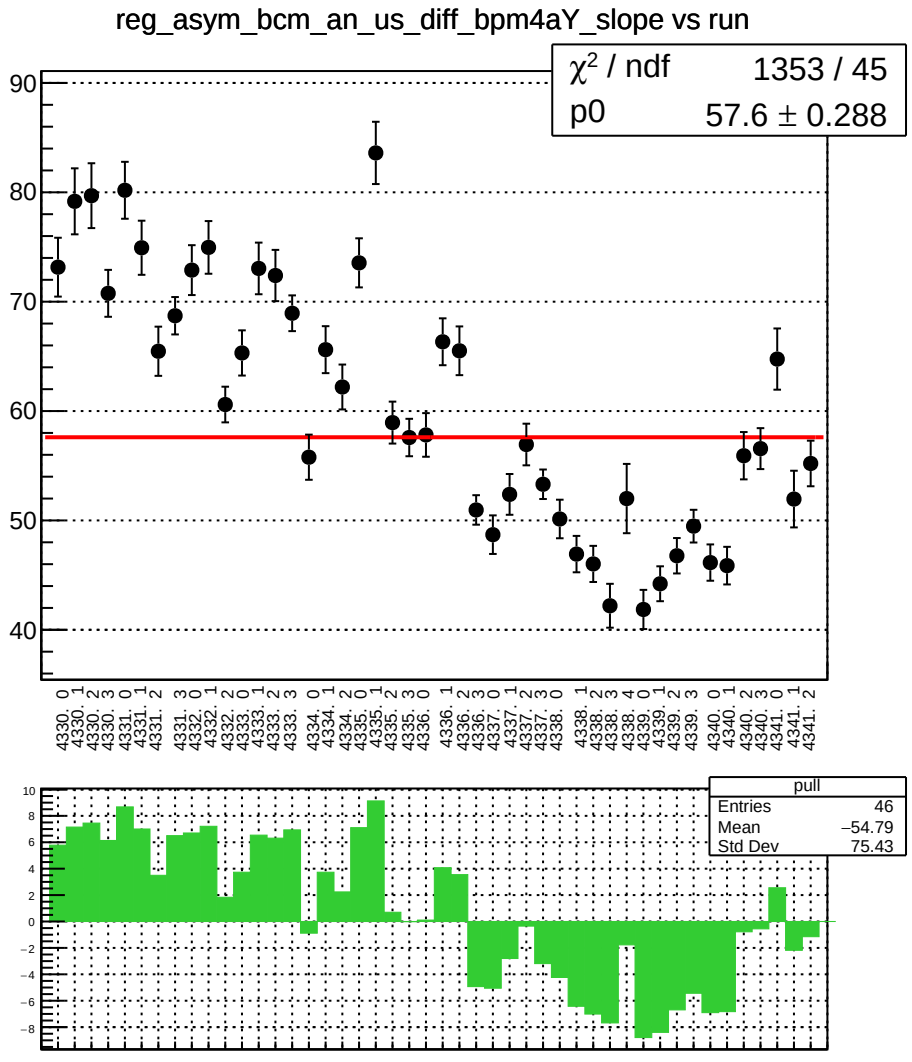

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1139 / 45
p0 −6.444 ± 0.04614
pull
Entries 46
Mean −35.58
Std Dev 52.92

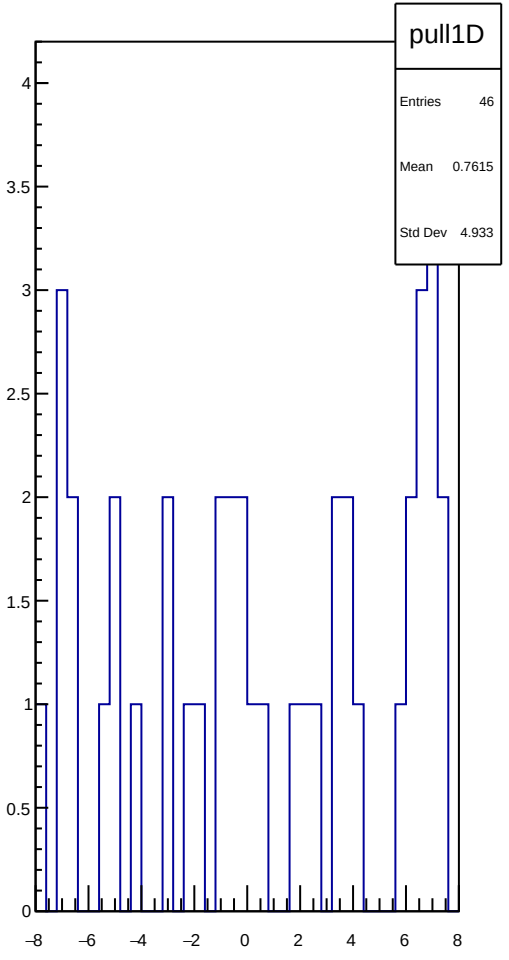

pull1D
Entries 46
Mean −0.2939
Std Dev 4.219

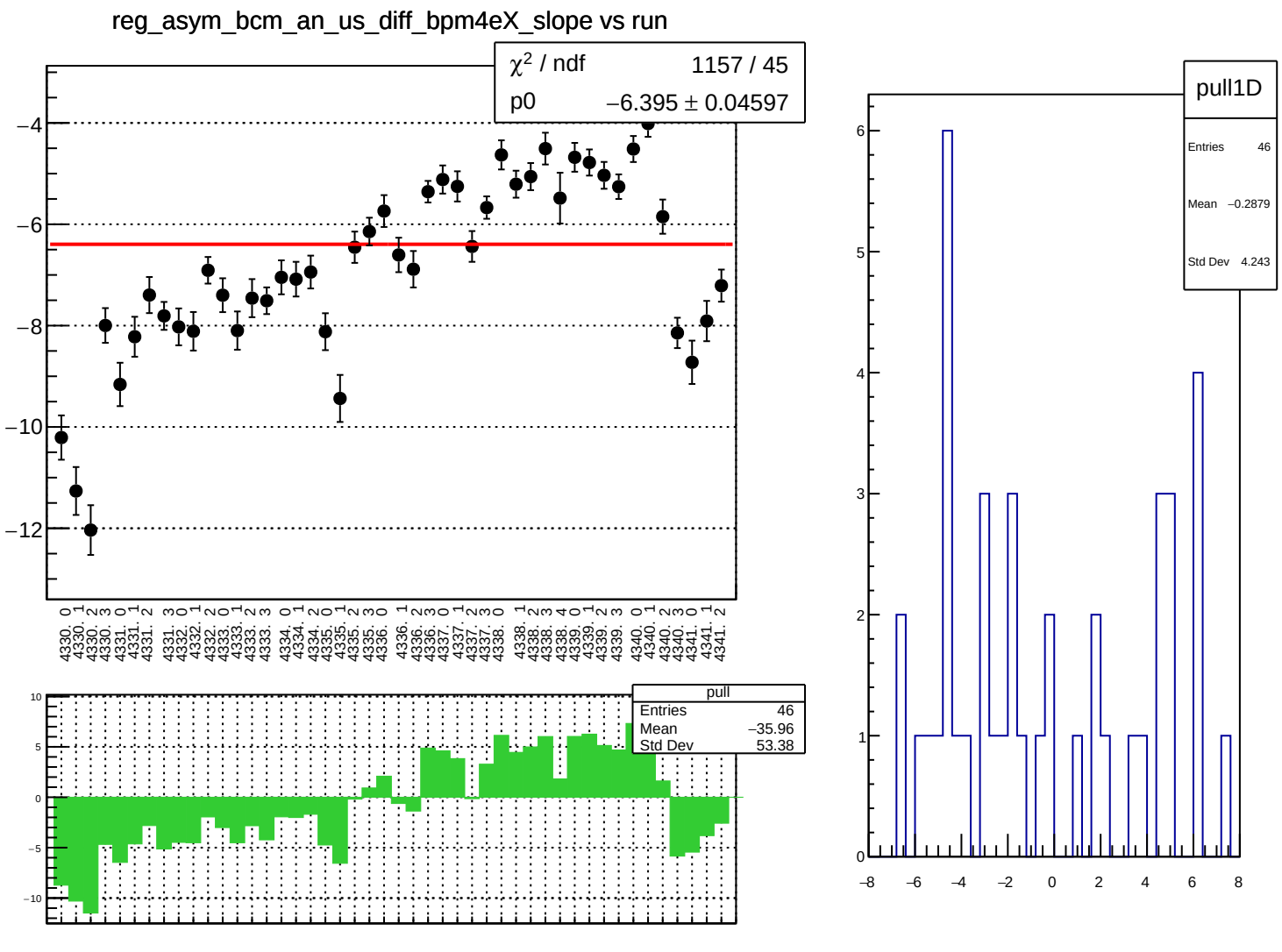

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 1533 / 45
p0 −68.5 ± 0.3138
pull
Entries 46
Mean −54.54
Std Dev 75.32
pull1D
Entries 46
Mean −0.9723
Std Dev 4.785

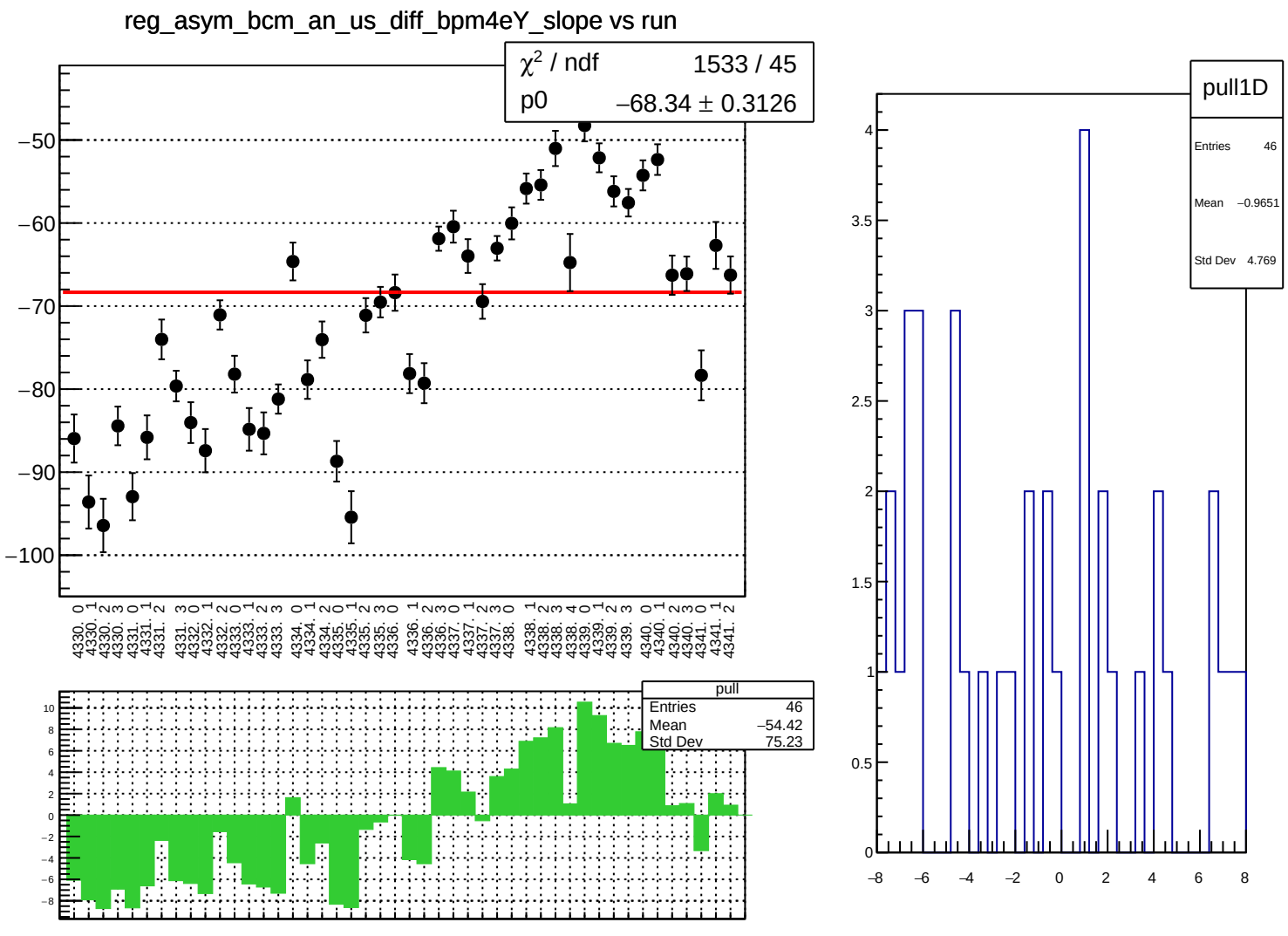

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 1037 / 45
p0 −8.125 ± 0.05597
pull
Entries 46
Mean −48.24
Std Dev 68.05
pull1D
Entries 46
Mean −0.6621
Std Dev 4.701

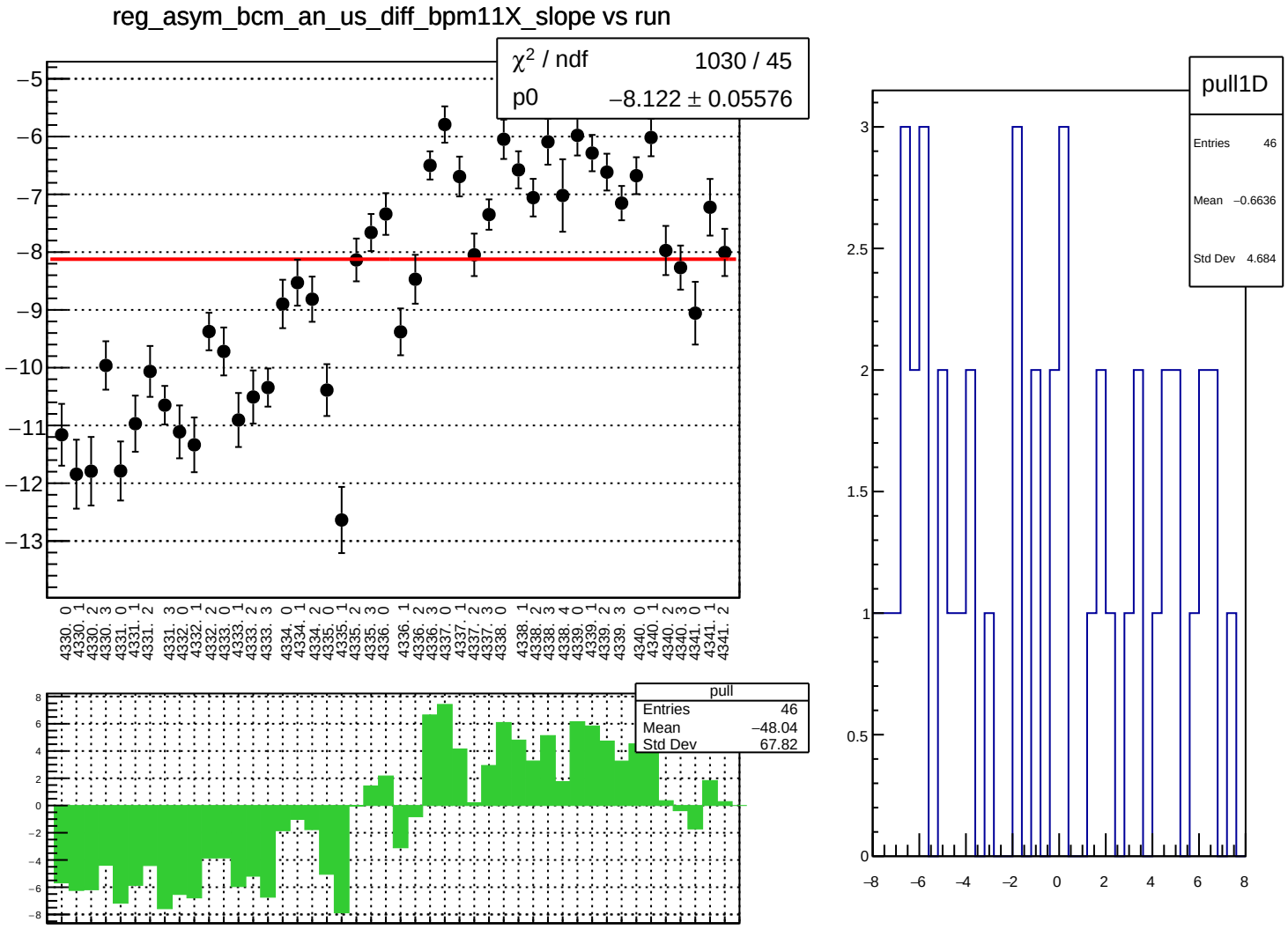

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 328.7 / 45
p0 16.47 ± 0.2629
pull
Entries 46
Mean −95.36
Std Dev 118.1
pull1D
Entries 46
Mean 0.2445
Std Dev 2.662

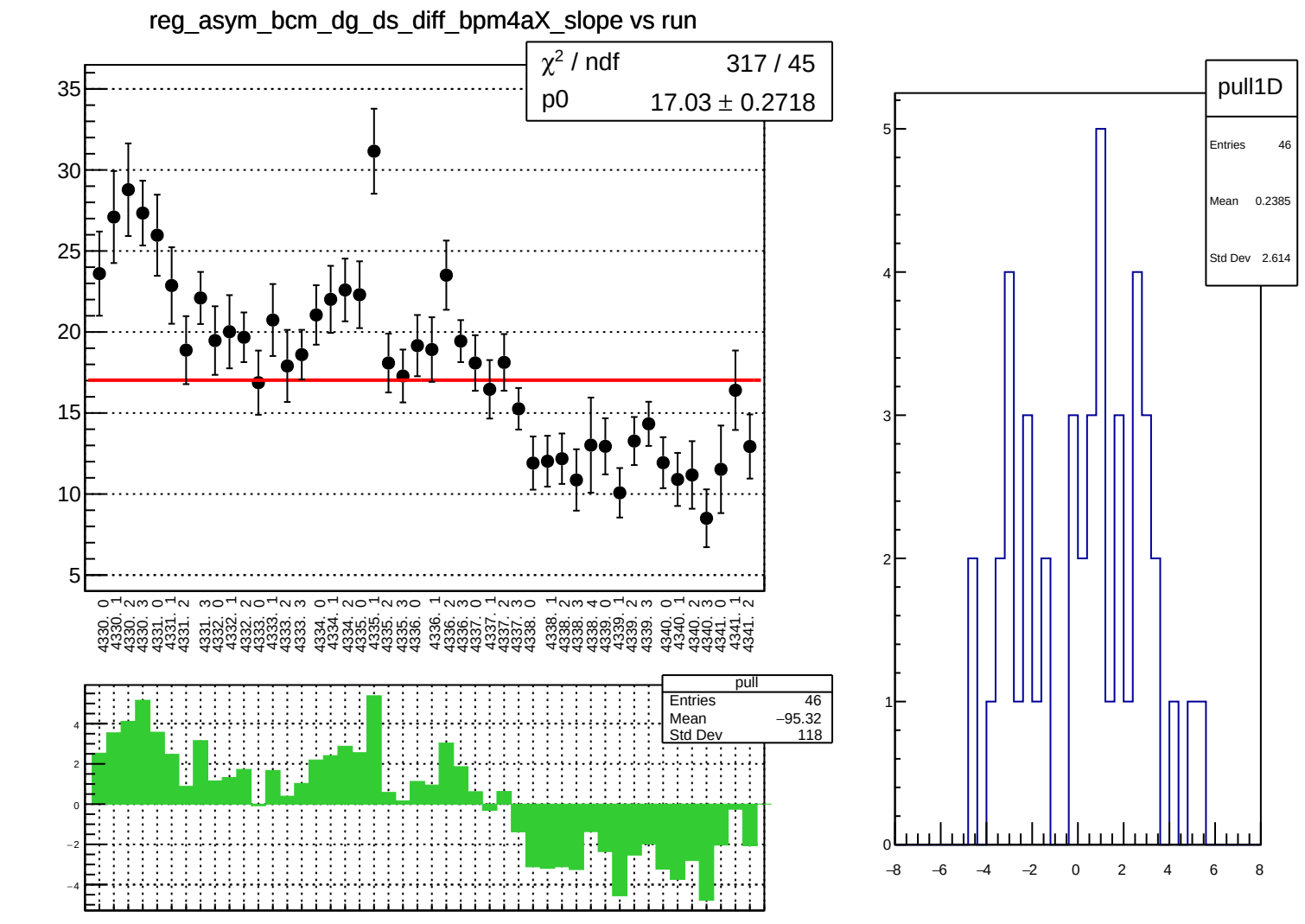

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 1353 / 45
p0 57.6 ± 0.288
pull
Entries 46
Mean −54.79
Std Dev 75.43

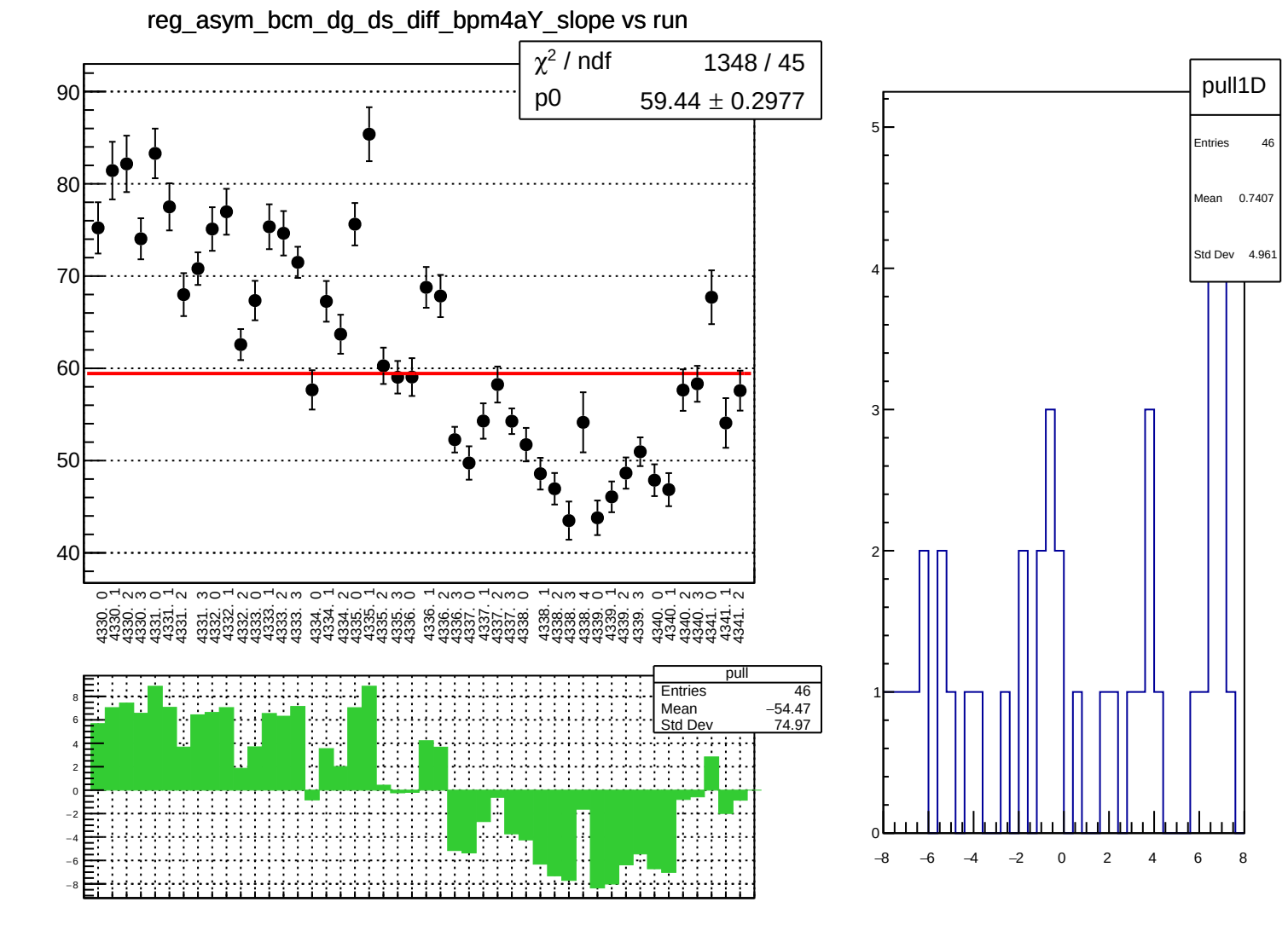

pull1D
Entries 46
Mean 0.7615
Std Dev 4.933

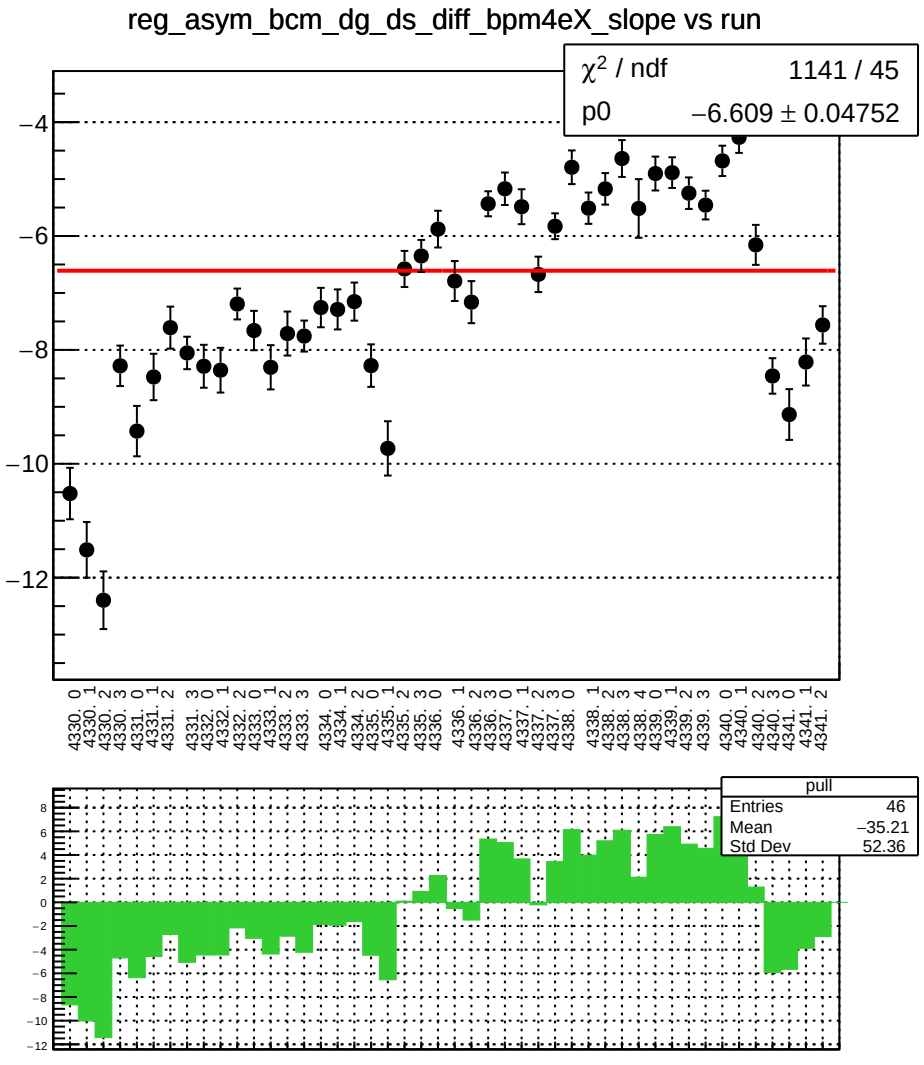

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1157 / 45
p0 −6.395 ± 0.04597
−4
−6
−8
−10
−12
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −35.96
Std Dev 53.38
10
5
0
−5
−10
pull1D
Entries 46
Mean −0.2879
Std Dev 4.243
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

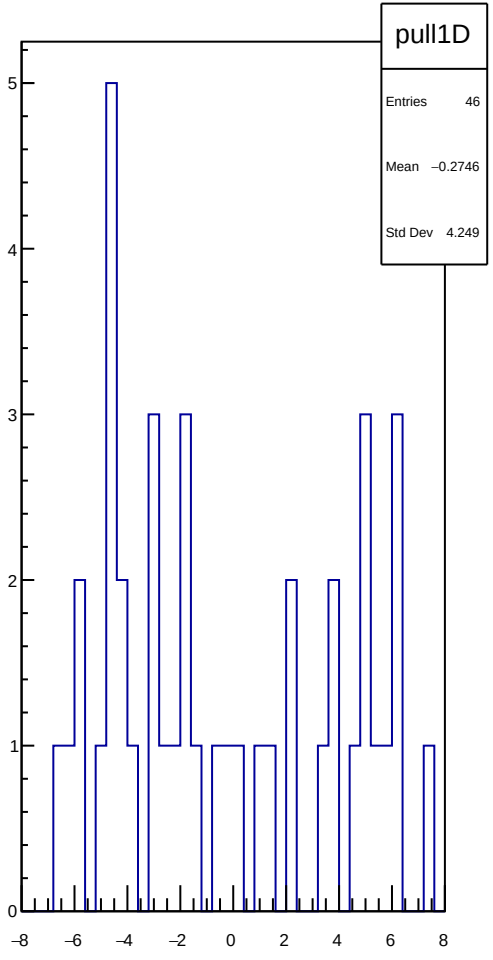

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 1533 / 45
p0 −68.34 ± 0.3126
−50
−60
−70
−80
−90
−100
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −54.42
Std Dev 75.23
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 46
Mean −0.9651
Std Dev 4.769
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

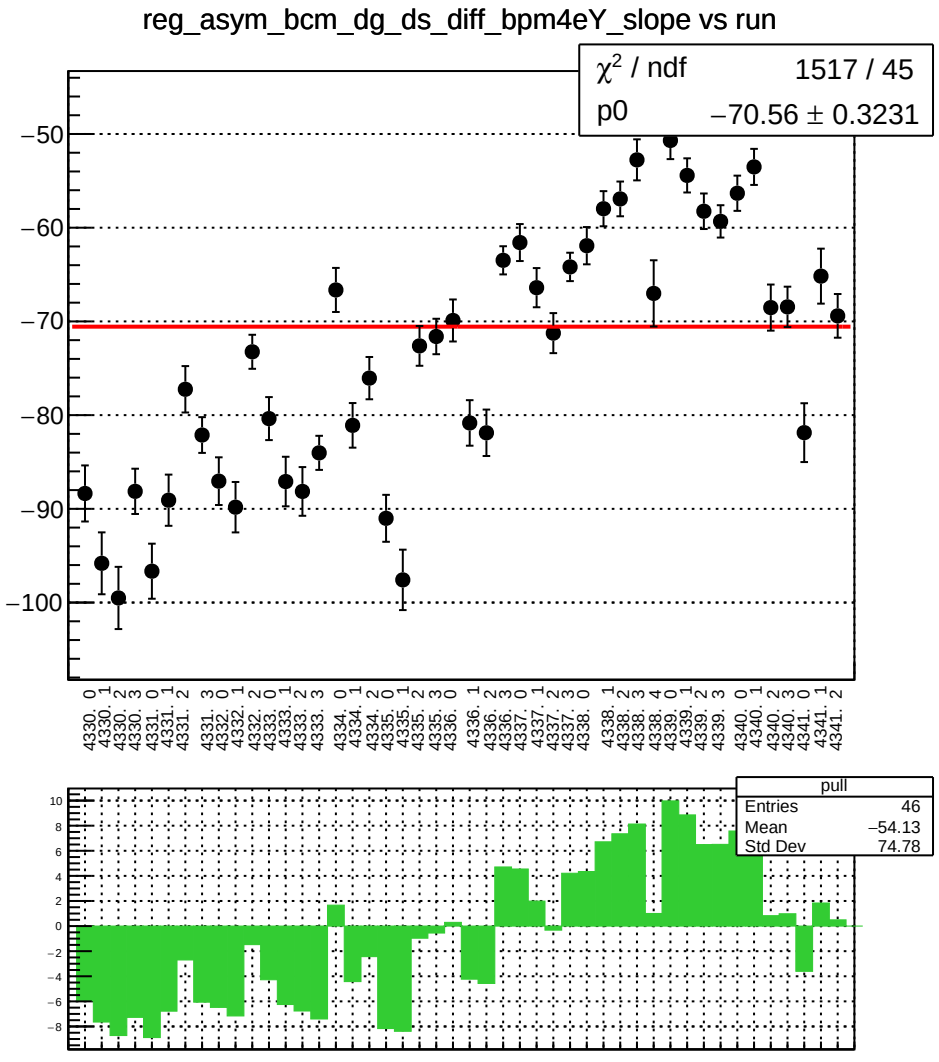

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 1030 / 45
p0 −8.122 ± 0.05576
pull
Entries 46
Mean −48.04
Std Dev 67.82
pull1D
Entries 46
Mean −0.6636
Std Dev 4.684

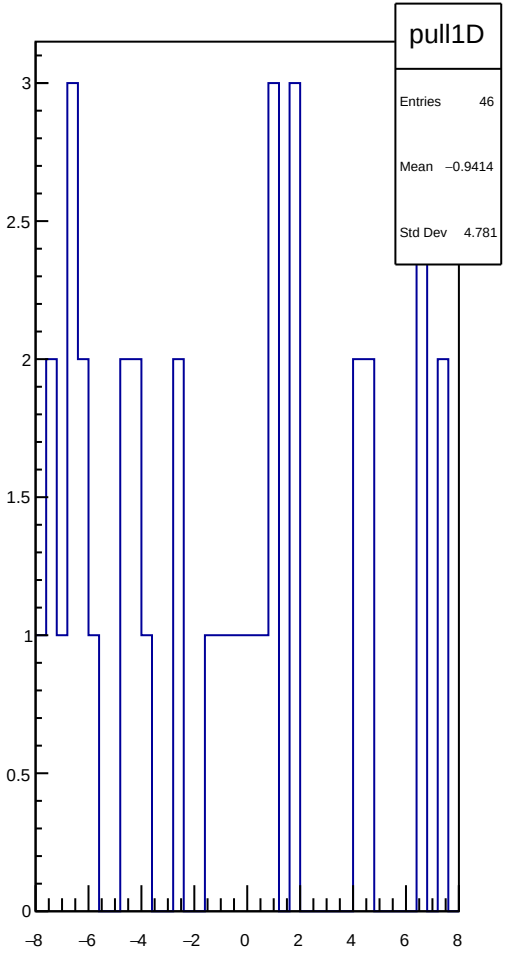

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 317 / 45
p0 17.03 ± 0.2718
pull
Entries 46
Mean −95.32
Std Dev 118
pull1D
Entries 46
Mean 0.2385
Std Dev 2.614

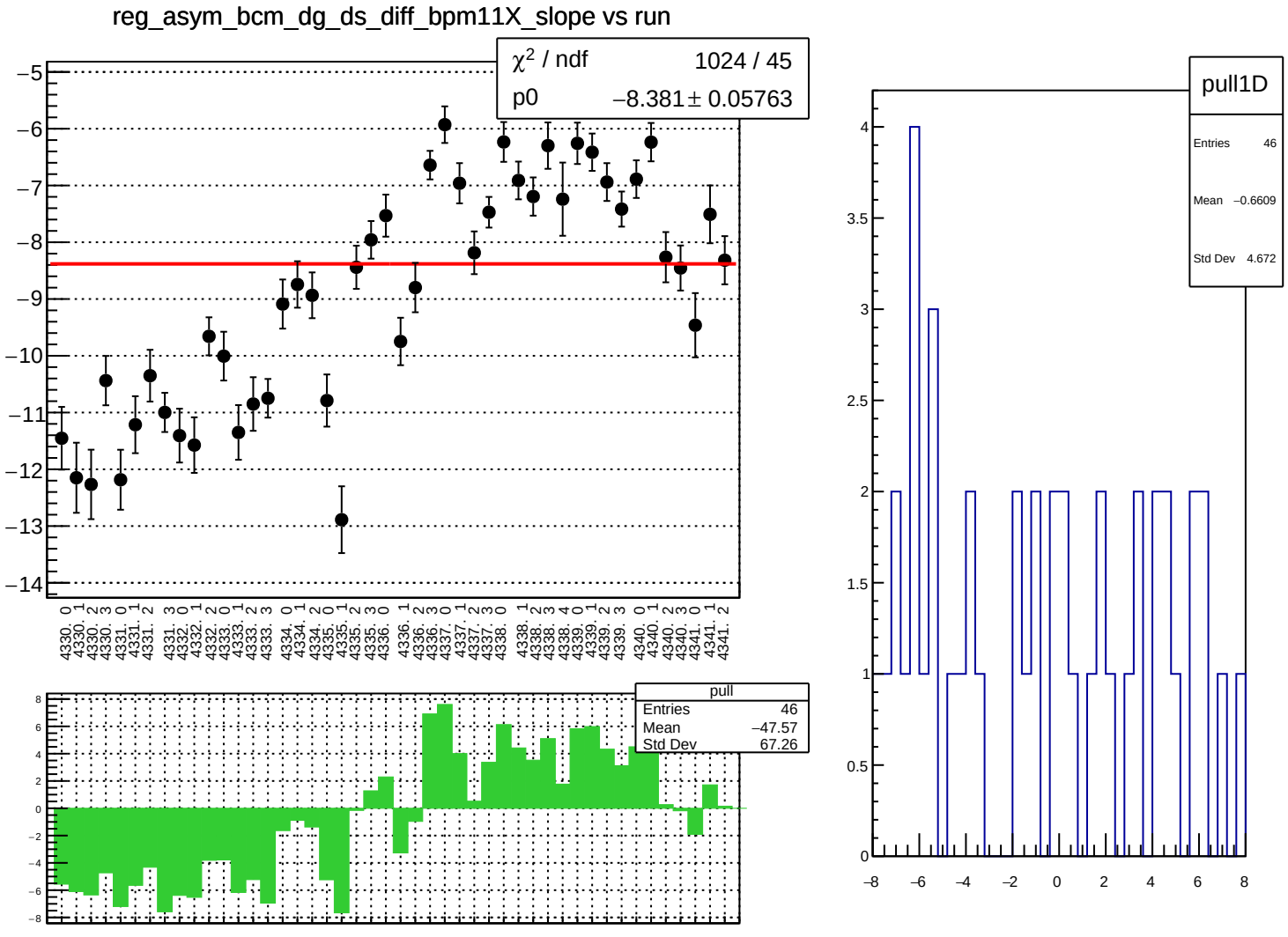

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 1348 / 45
p0 59.44 ± 0.2977
pull
Entries 46
Mean −54.47
Std Dev 74.97
pull1D
Entries 46
Mean 0.7407
Std Dev 4.961

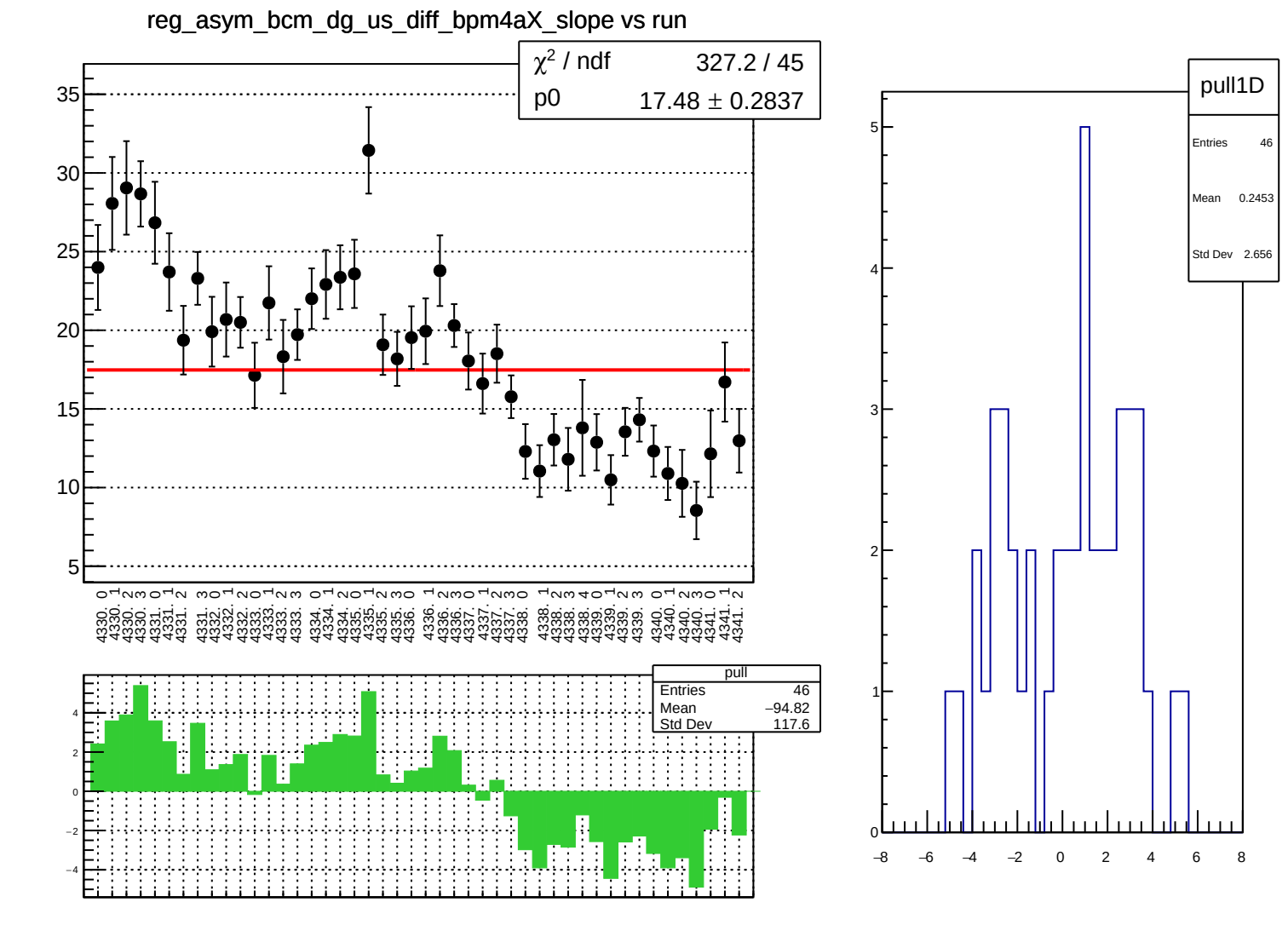

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1141 / 45
p0 −6.609 ± 0.04752
pull
Entries 46
Mean −35.21
Std Dev 52.36

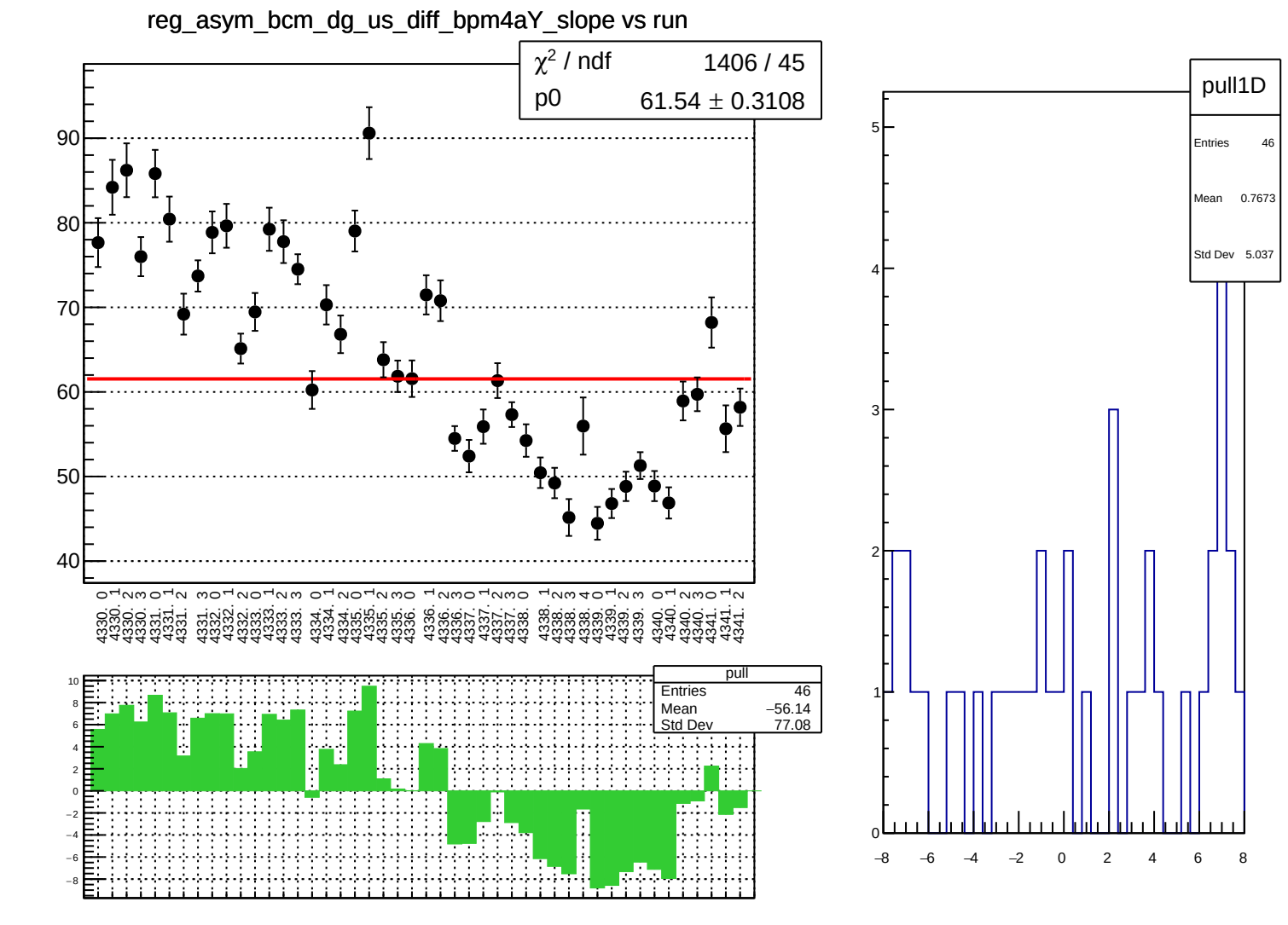

pull1D
Entries 46
Mean −0.2746
Std Dev 4.249

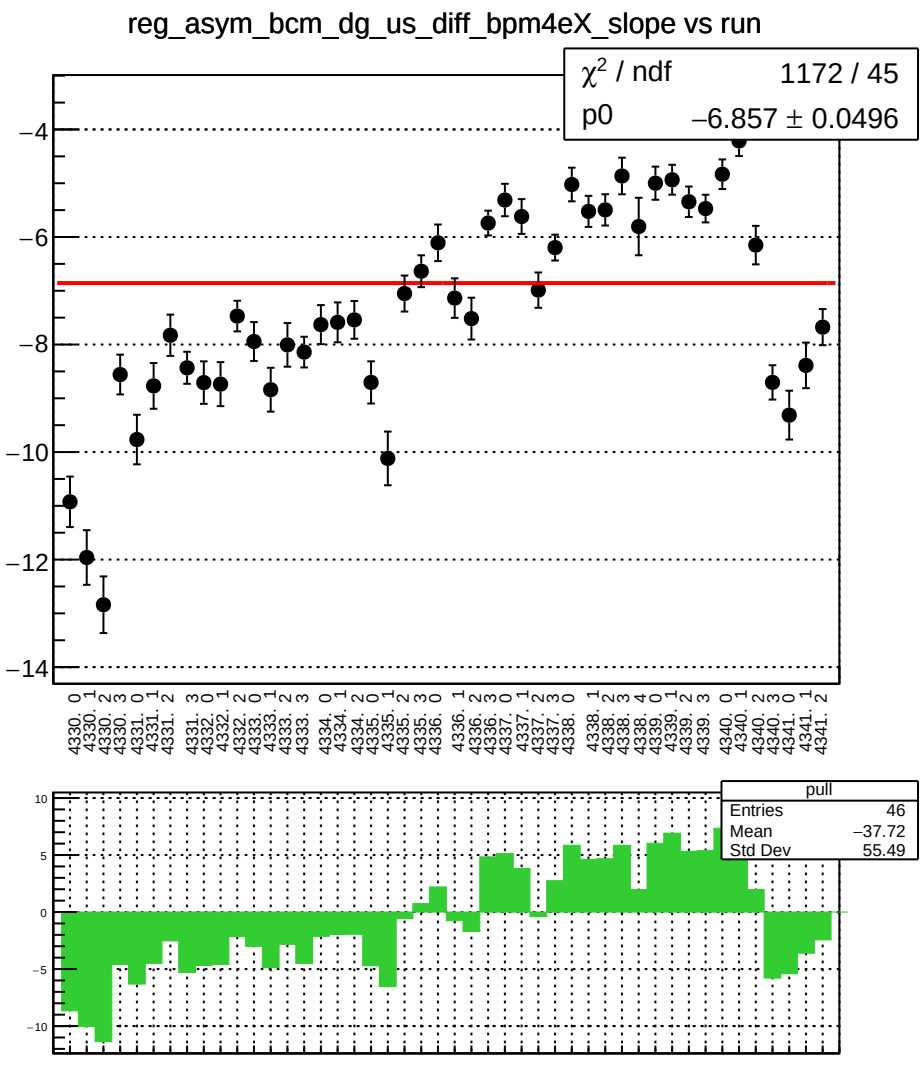

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 1517 / 45
p0 −70.56 ± 0.3231
pull
Entries 46
Mean −54.13
Std Dev 74.78

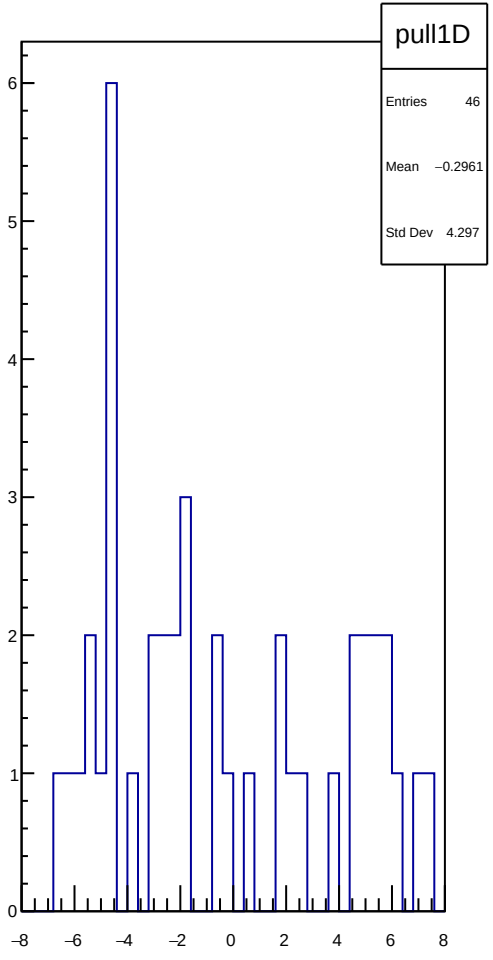

pull1D
Entries 46
Mean −0.9414
Std Dev 4.781

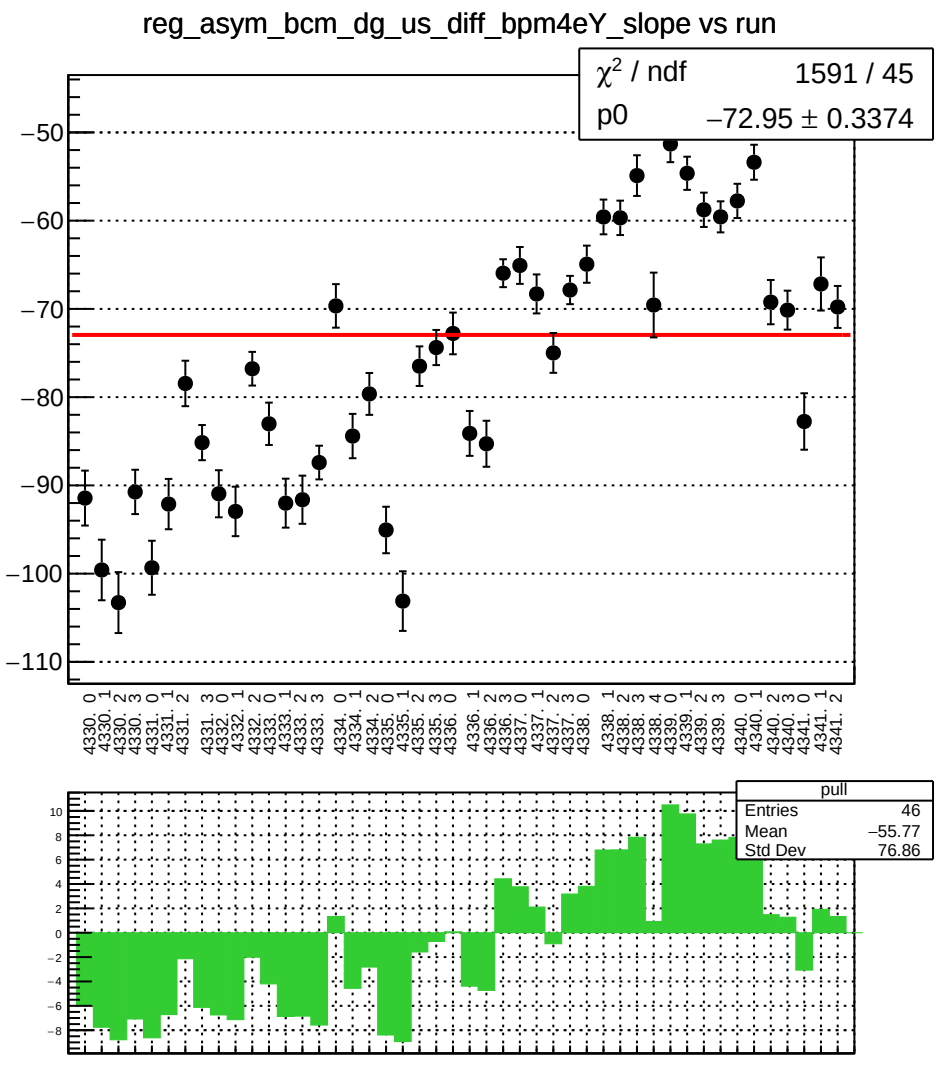

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 1024 / 45
p0 −8.381 ± 0.05763
pull
Entries 46
Mean −47.57
Std Dev 67.26
pull1D
Entries 46
Mean −0.6609
Std Dev 4.672

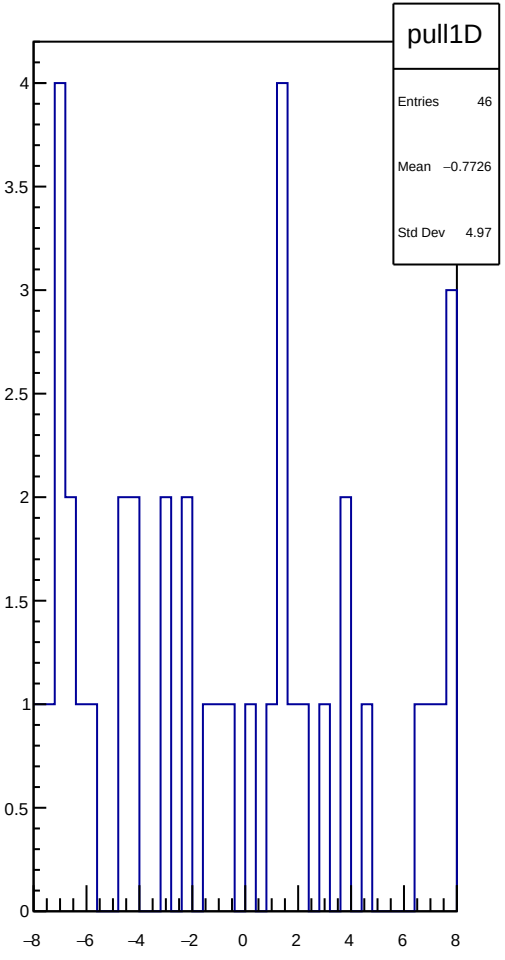

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 327.2 / 45
p0 17.48 ± 0.2837
pull
Entries 46
Mean −94.82
Std Dev 117.6
pull1D
Entries 46
Mean 0.2453
Std Dev 2.656

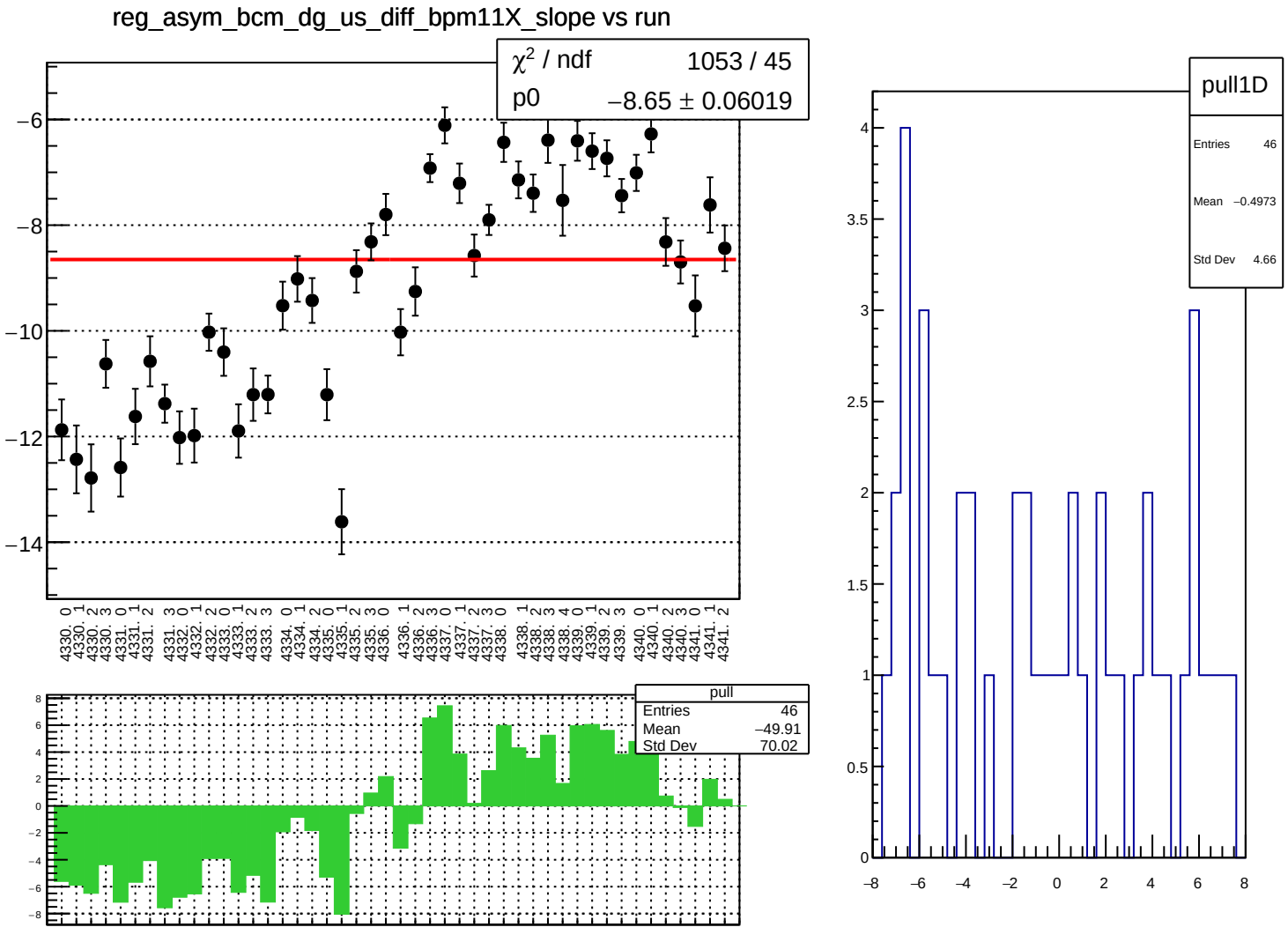

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 1406 / 45
p0 61.54 ± 0.3108
90
80
70
60
50
40
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −56.14
Std Dev 77.08
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 46
Mean 0.7673
Std Dev 5.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

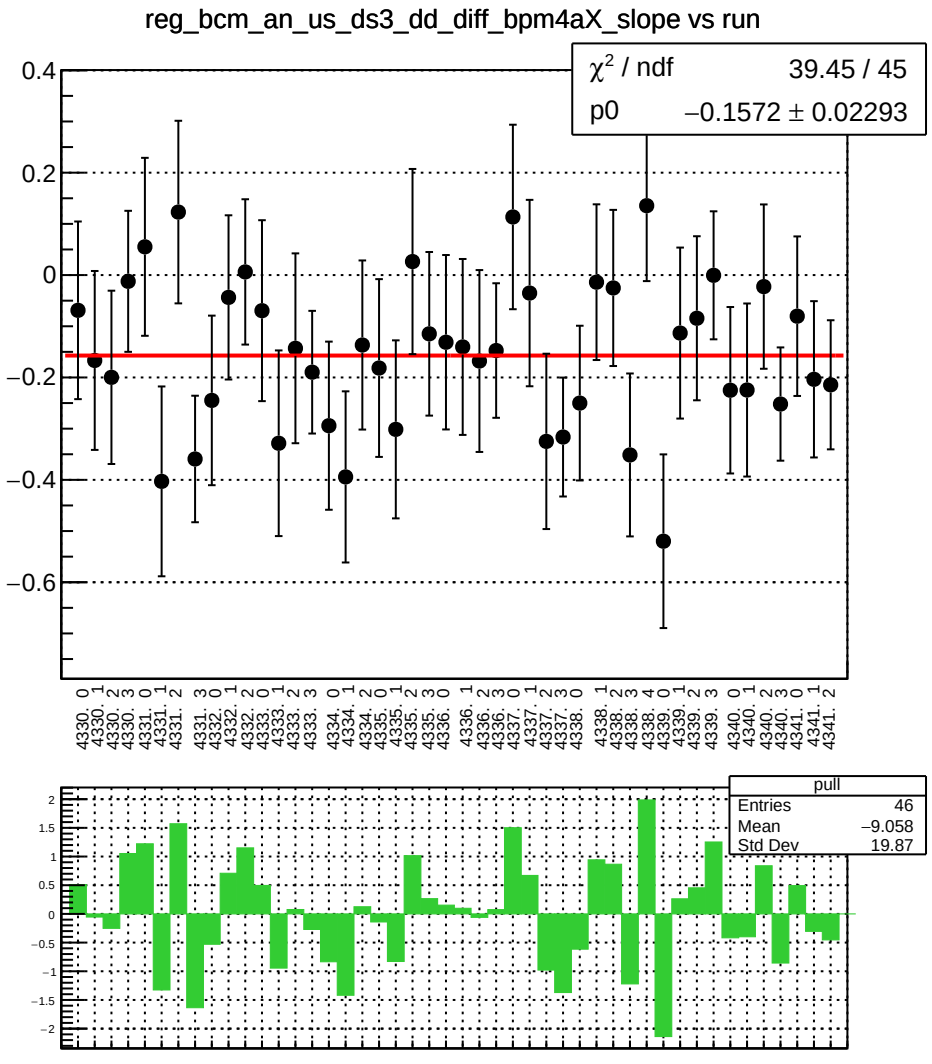

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1172 / 45
p0 −6.857 ± 0.0496
pull
Entries 46
Mean −37.72
Std Dev 55.49

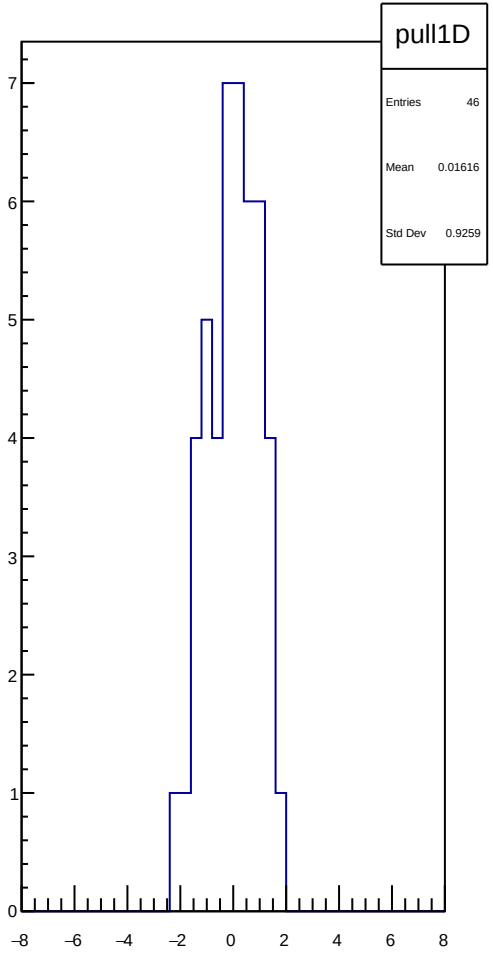

pull1D
Entries 46
Mean −0.2961
Std Dev 4.297

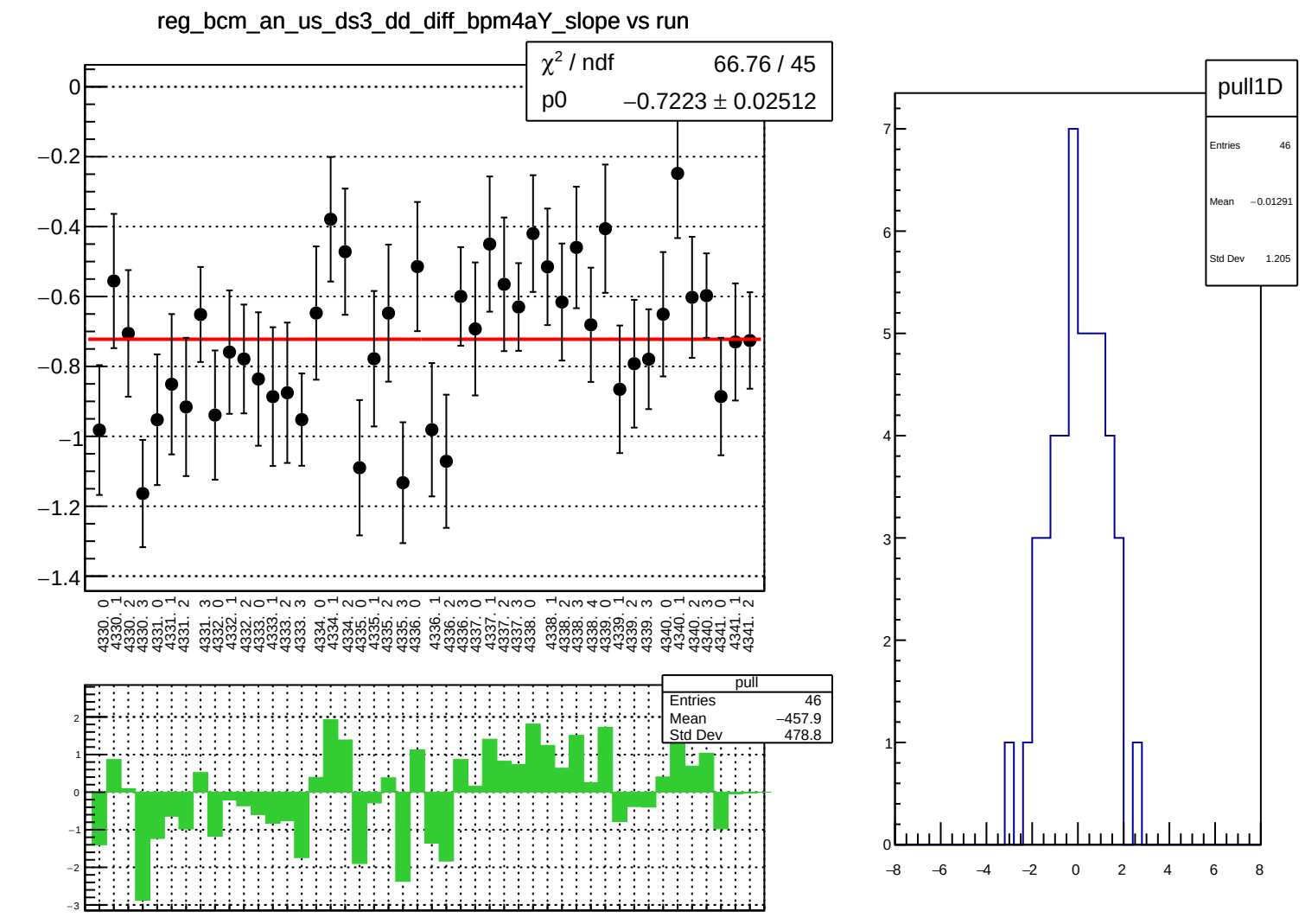

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 1591 / 45
p0 −72.95 ± 0.3374
−50
−60
−70
−80
−90
−100
−110
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −55.77
Std Dev 76.86
10
8
6
4
2
0
−2
−4
−6
−8

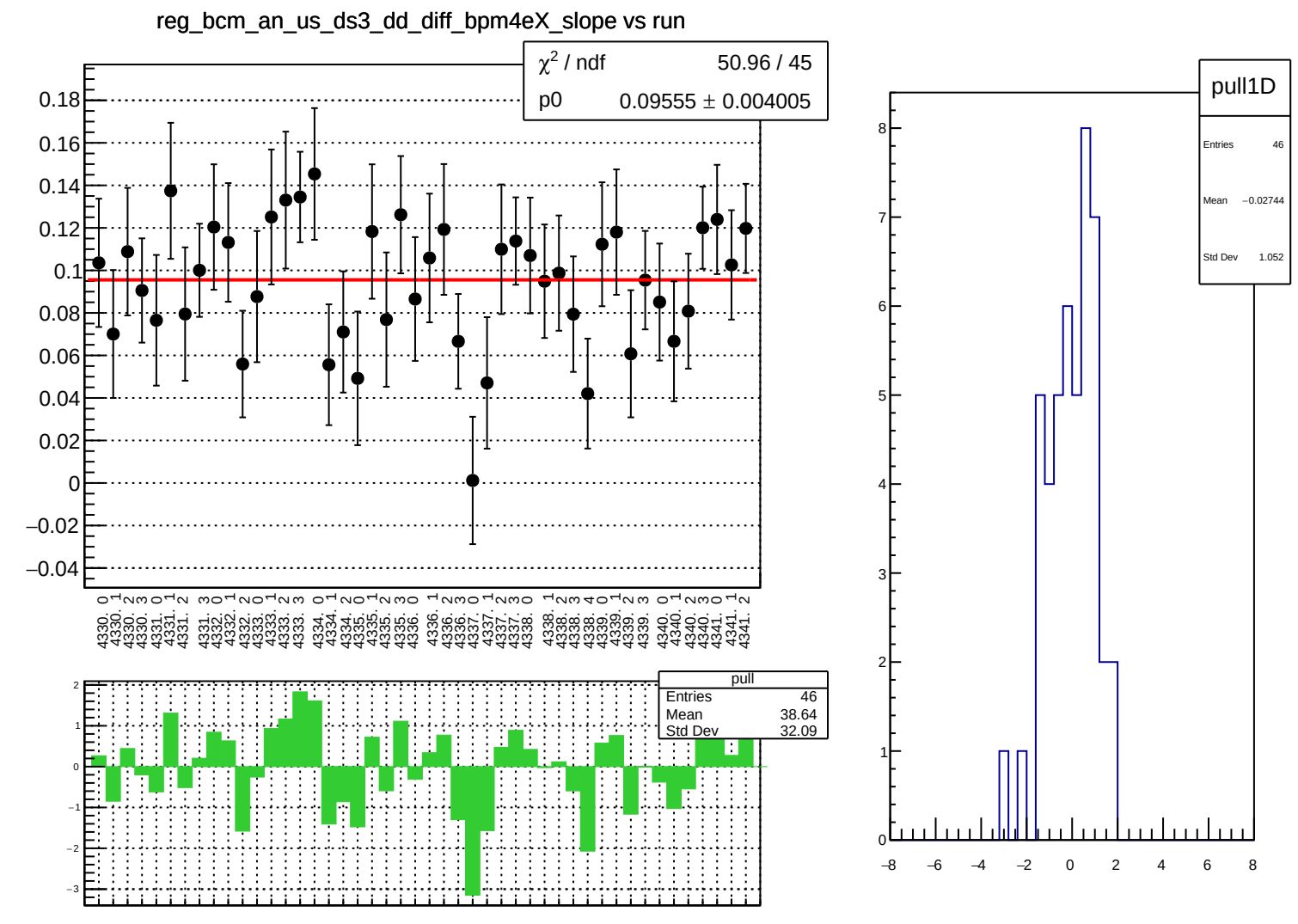

pull1D
Entries 46
Mean −0.7726
Std Dev 4.97
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

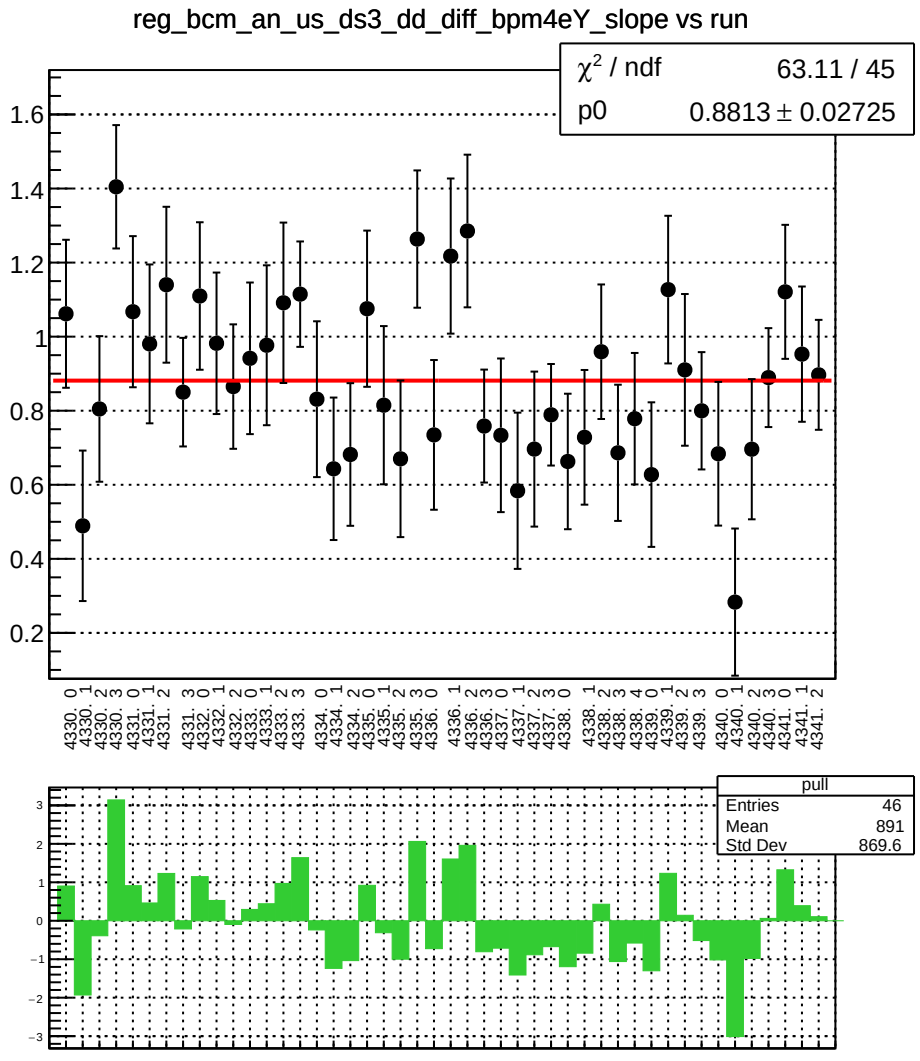

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 1053 / 45
p0 −8.65 ± 0.06019
pull
Entries 46
Mean −49.91
Std Dev 70.02
pull1D
Entries 46
Mean −0.4973
Std Dev 4.66

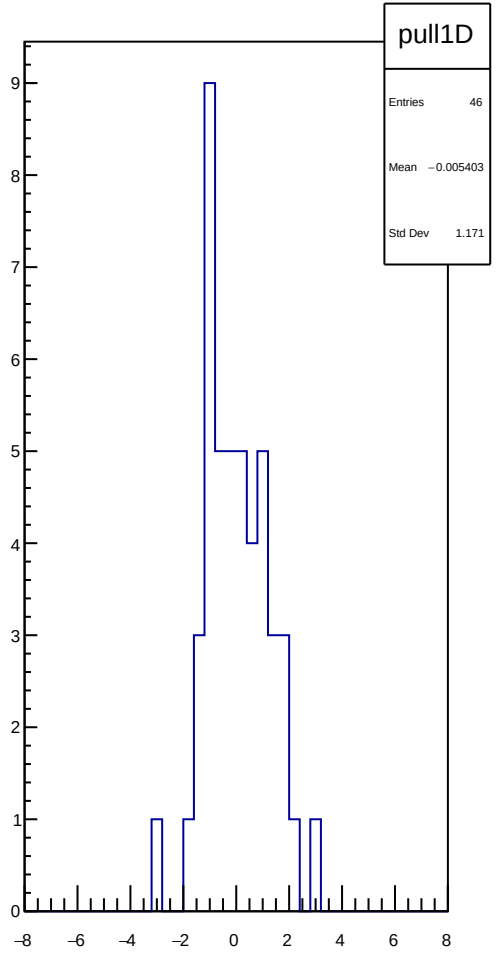

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.45 / 45
p0 −0.1572 ± 0.02293
pull
Entries 46
Mean −9.058
Std Dev 19.87

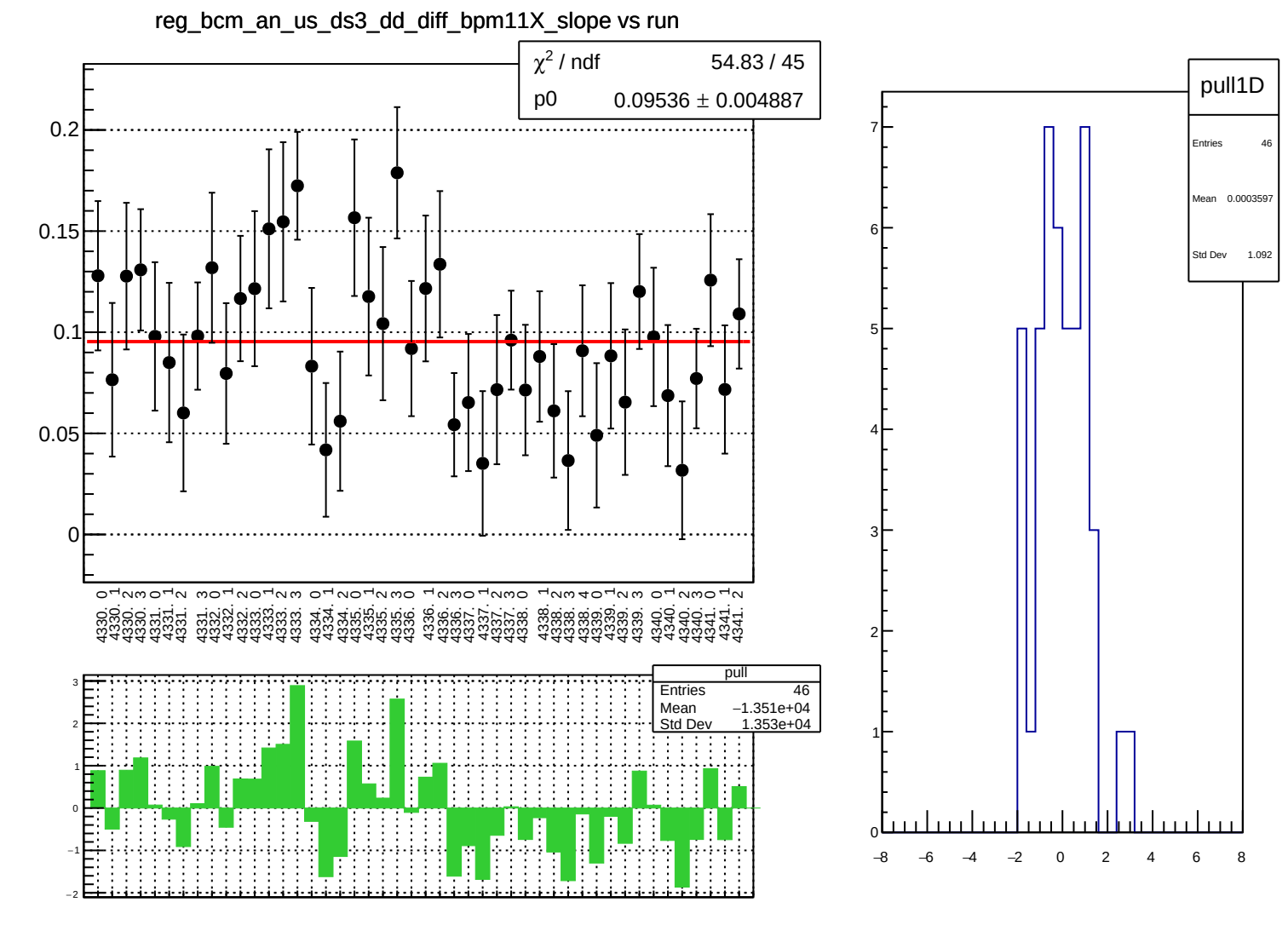

pull1D
Entries 46
Mean 0.01616
Std Dev 0.9259

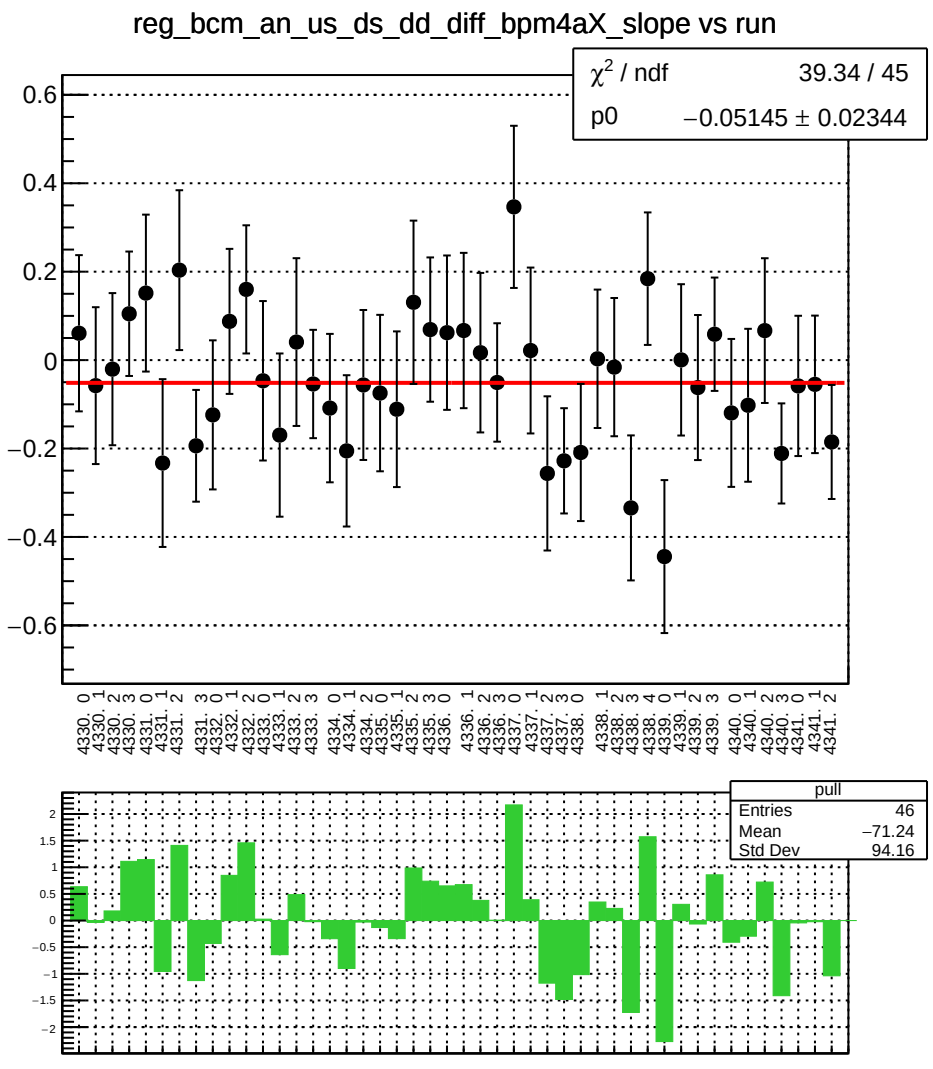

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.76 / 45
p0 −0.7223 ± 0.02512
pull
Entries 46
Mean −457.9
Std Dev 478.8
pull1D
Entries 46
Mean −0.01291
Std Dev 1.205

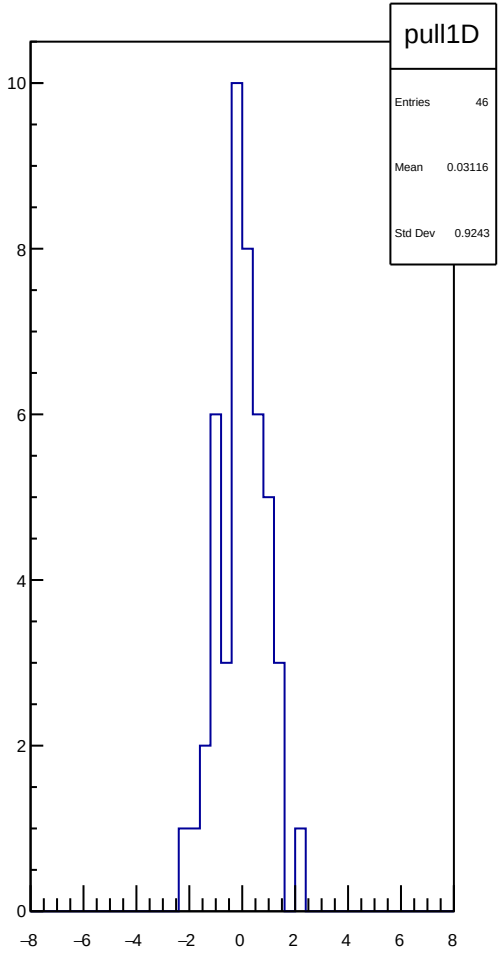

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.96 / 45
p0 0.09555 ± 0.004005
pull
Entries 46
Mean 38.64
Std Dev 32.09
pull1D
Entries 46
Mean −0.02744
Std Dev 1.052

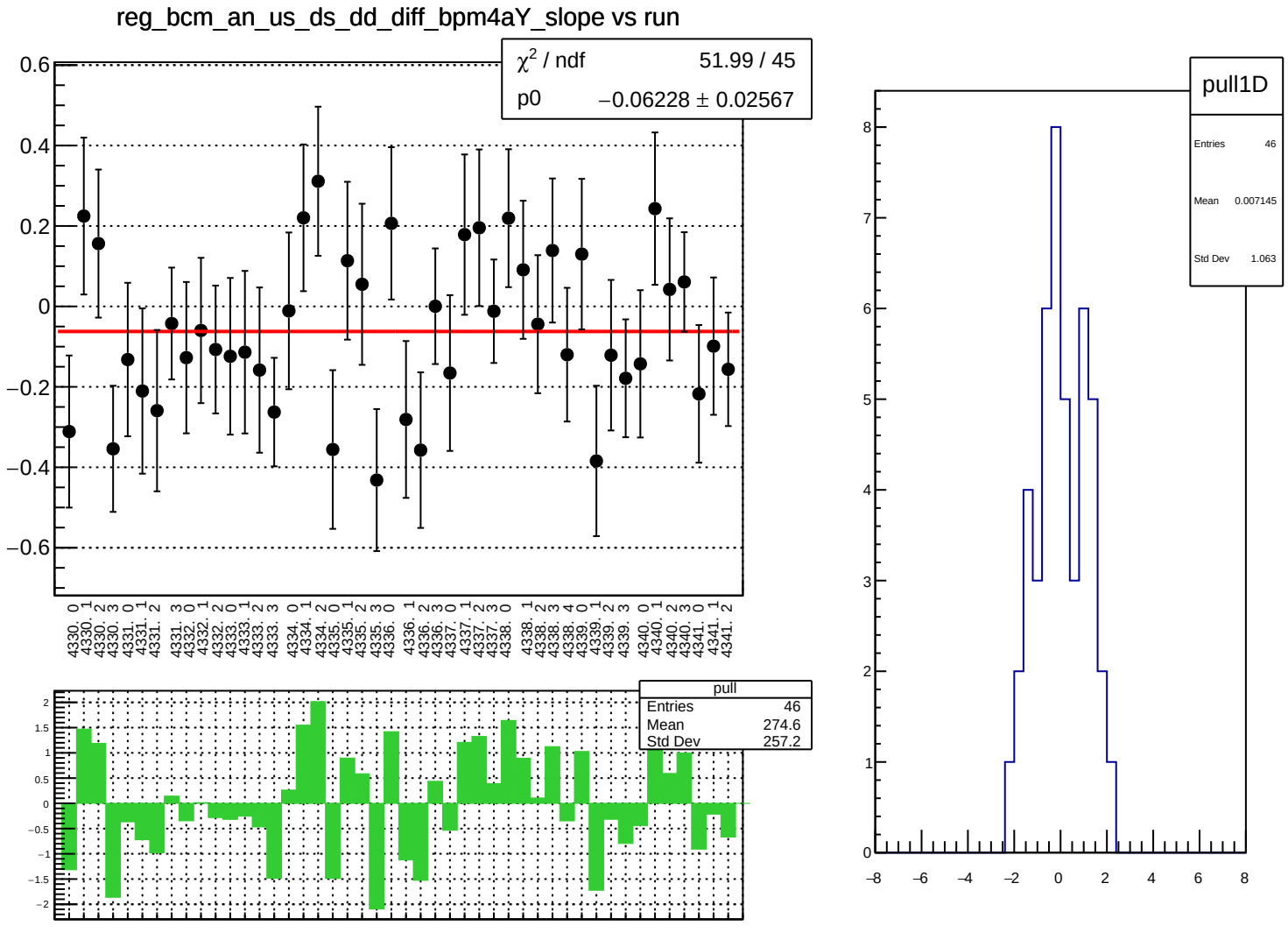

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.11 / 45
p0 0.8813 ± 0.02725
pull
Entries 46
Mean 891
Std Dev 869.6

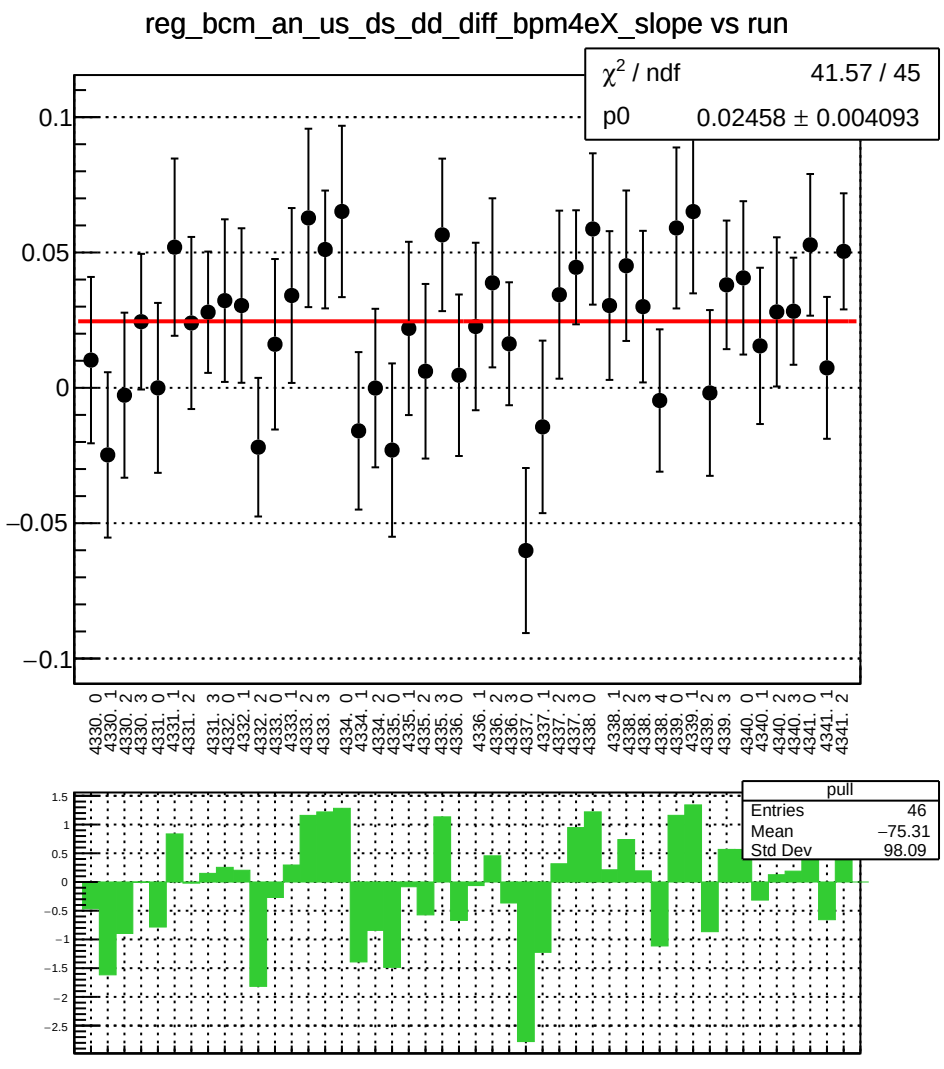

pull1D
Entries 46
Mean −0.005403
Std Dev 1.171

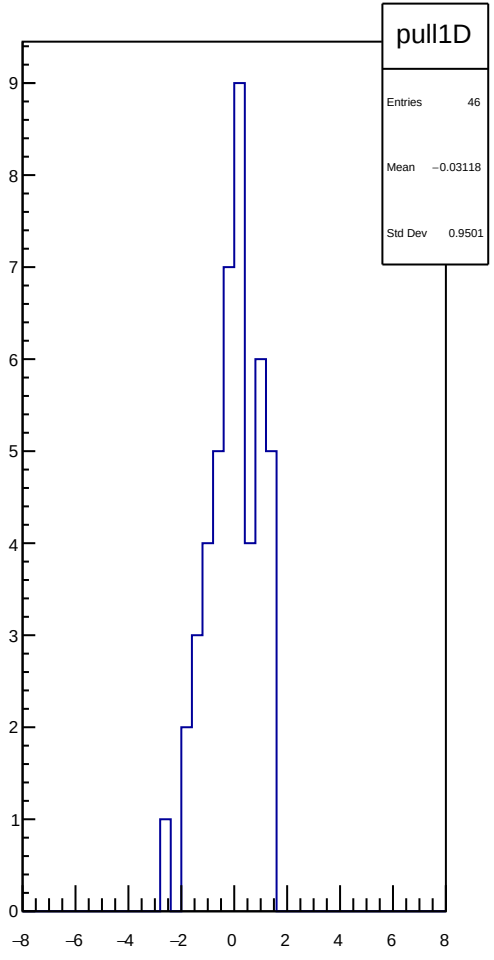

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 54.83 / 45
p0 0.09536 ± 0.004887
0.2
0.15
0.1
0.05
0
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −1.351e+04
Std Dev 1.353e+04
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.0003597
Std Dev 1.092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

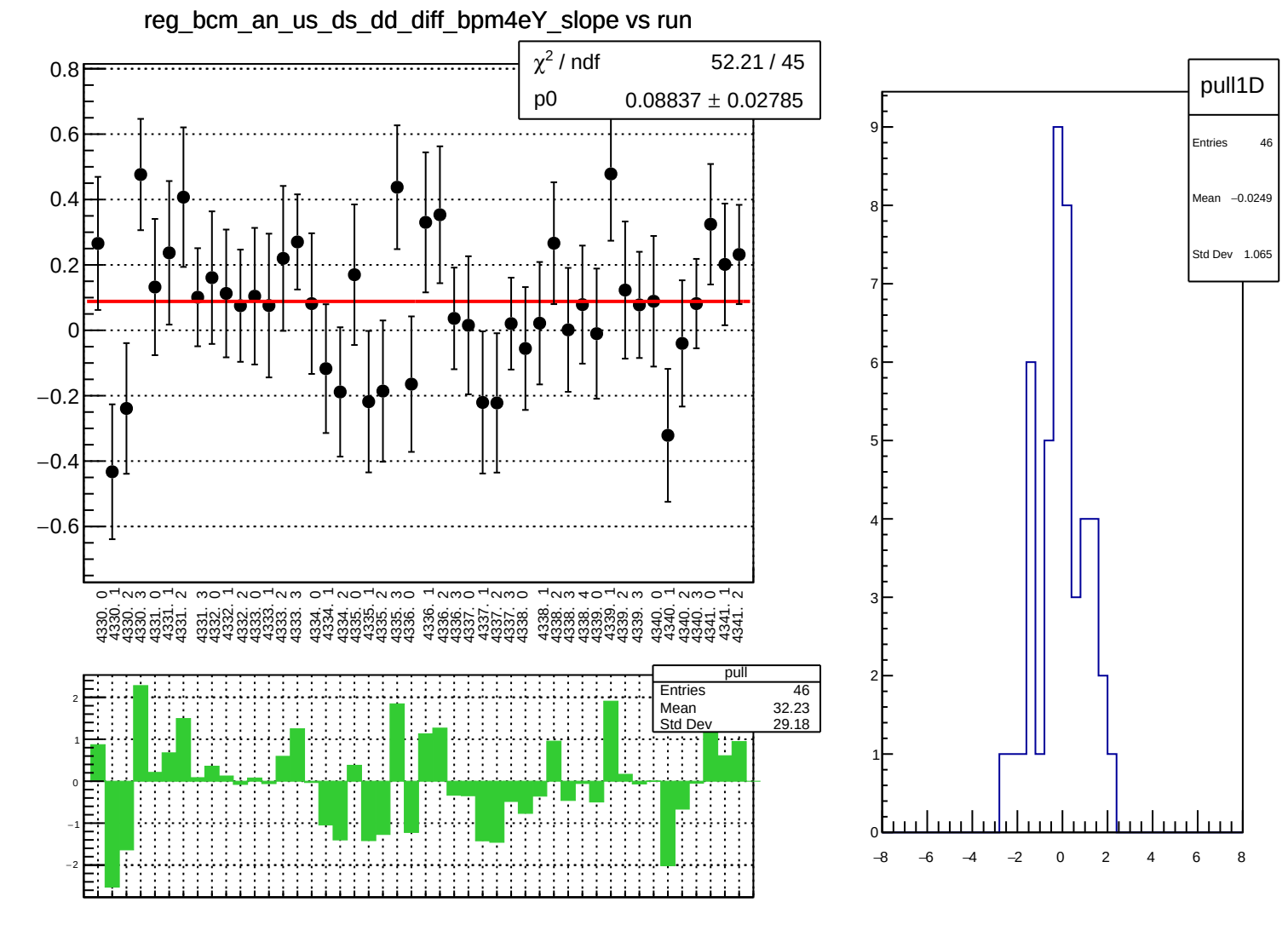

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.34 / 45
p0 −0.05145 ± 0.02344
pull
Entries 46
Mean −71.24
Std Dev 94.16

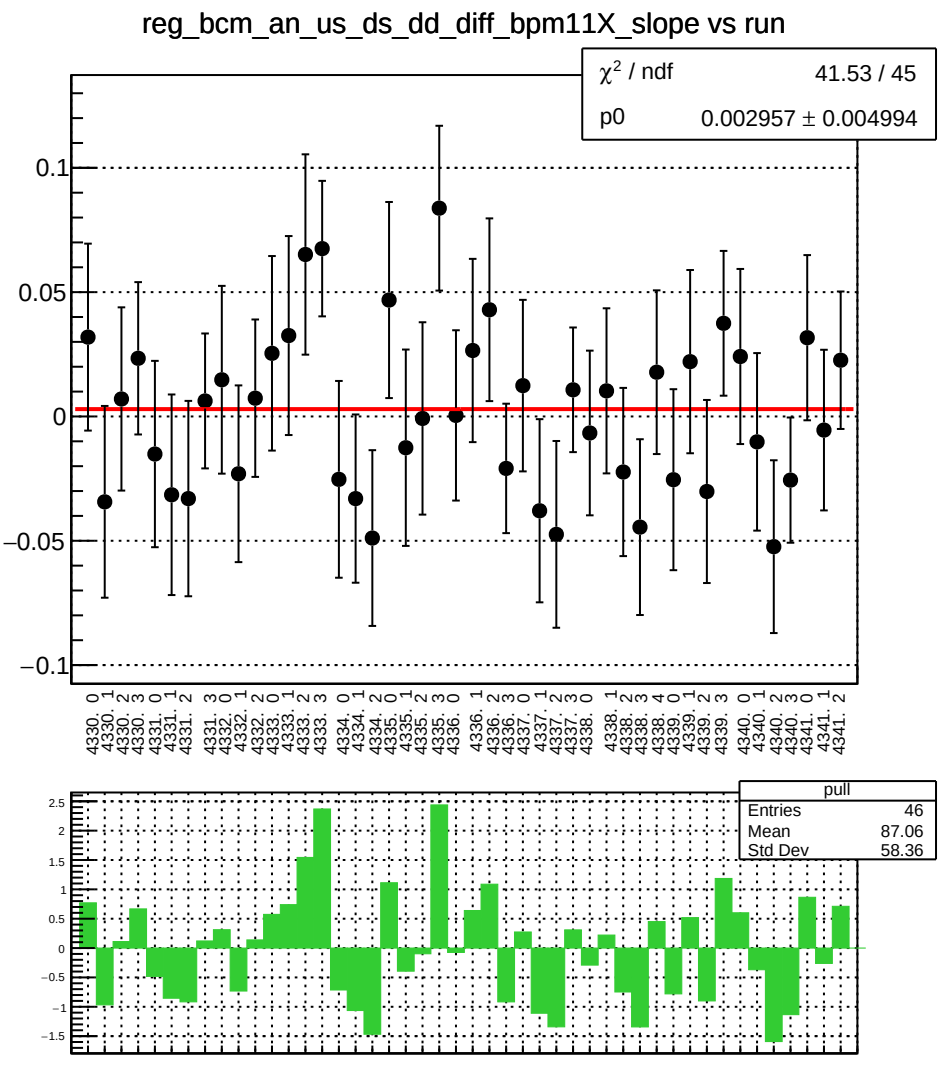

pull1D
Entries 46
Mean 0.03116
Std Dev 0.9243

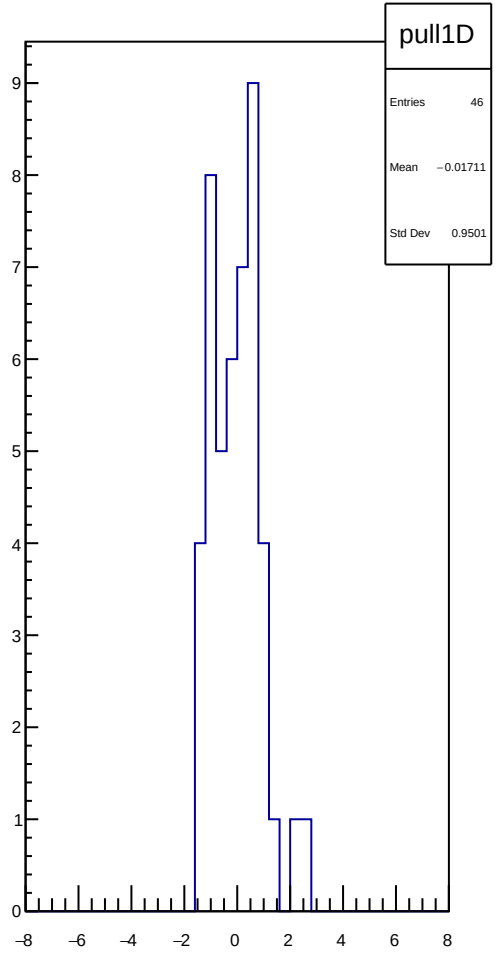

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.99 / 45
p0 −0.06228 ± 0.02567
pull
Entries 46
Mean 274.6
Std Dev 257.2
pull1D
Entries 46
Mean 0.007145
Std Dev 1.063

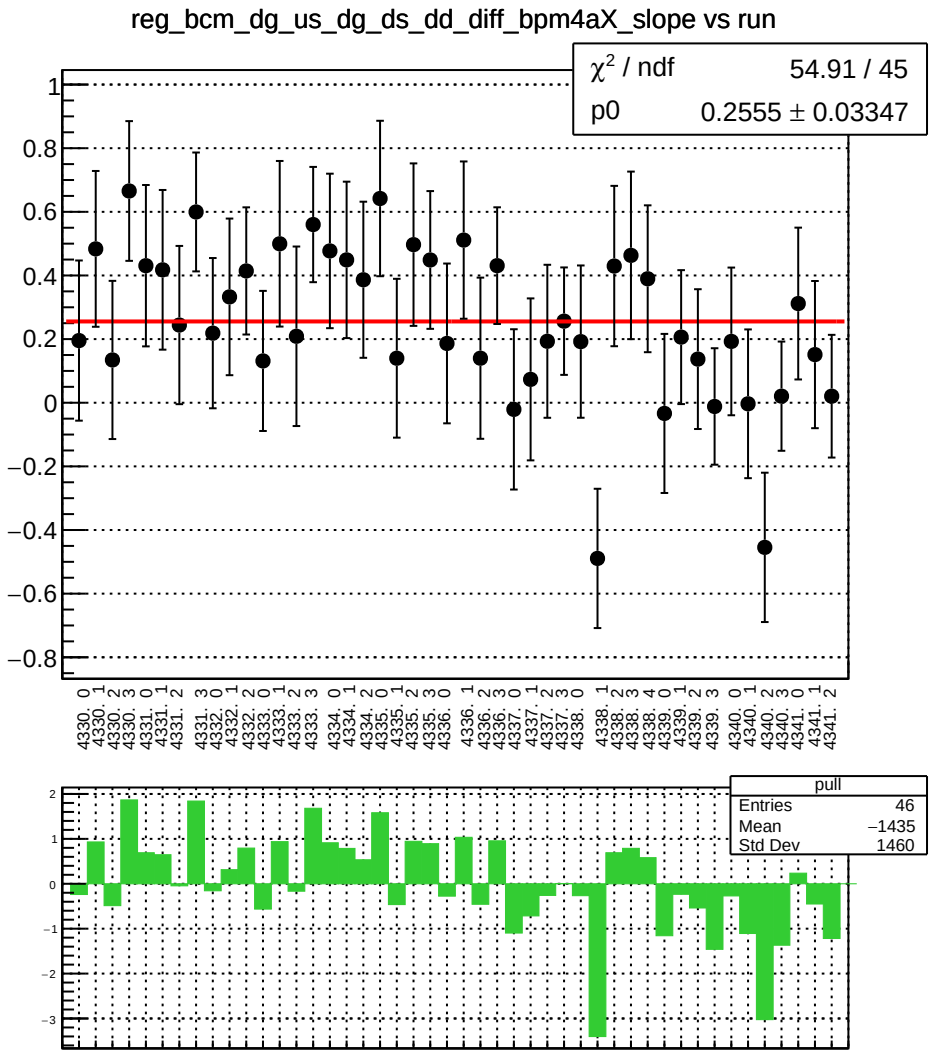

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.57 / 45
p0 0.02458 ± 0.004093
0.1
0.05
0
−0.05
−0.1
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4332. 3
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −75.31
Std Dev 98.09
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

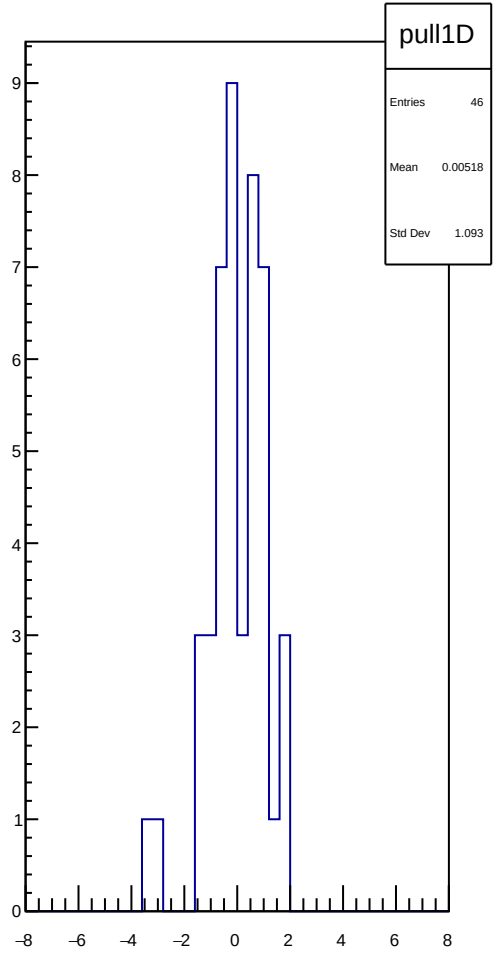

pull1D
Entries 46
Mean −0.03118
Std Dev 0.9501
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

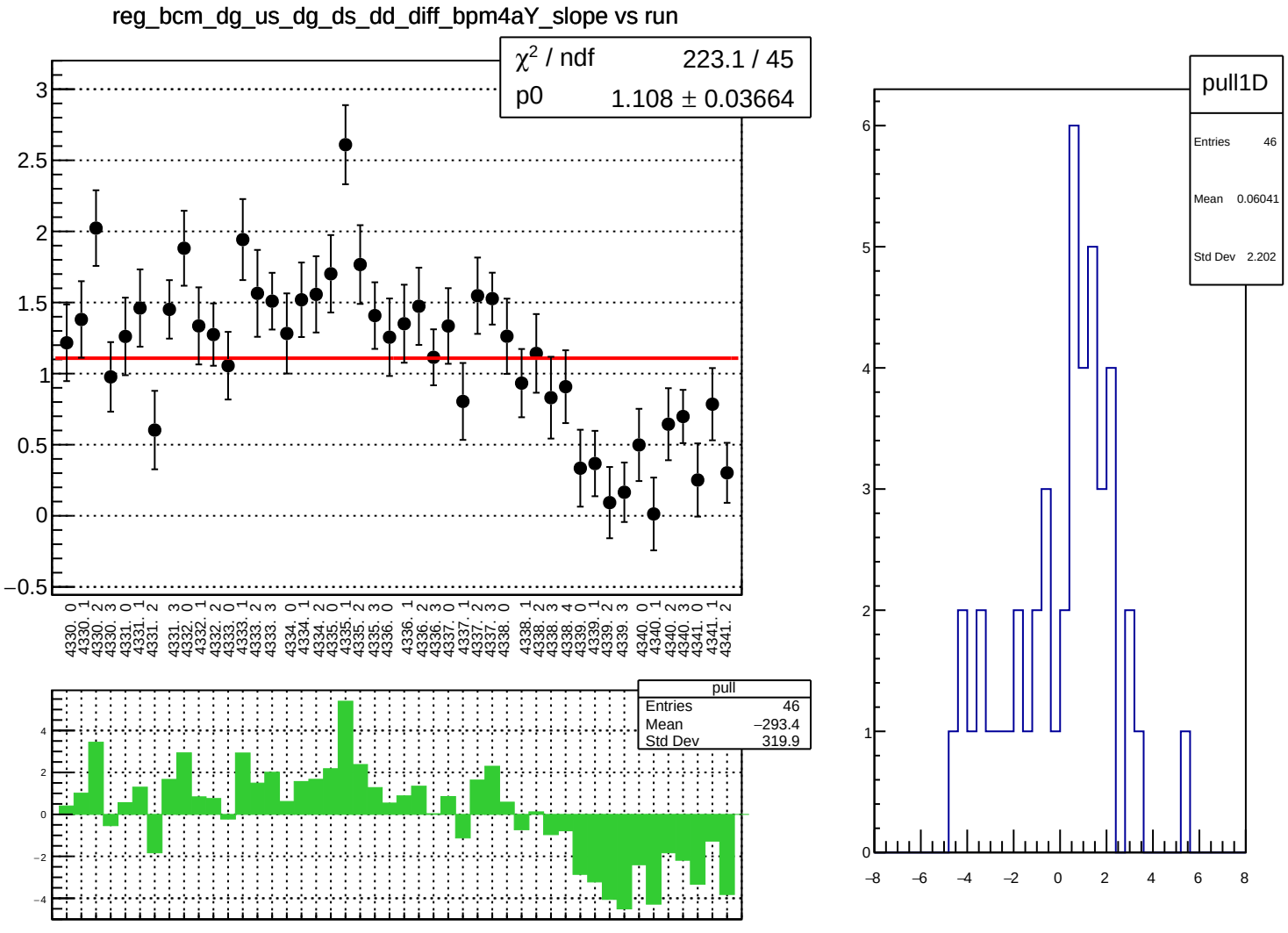

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.21 / 45
p0 0.08837 ± 0.02785
pull
Entries 46
Mean 32.23
Std Dev 29.18
pull1D
Entries 46
Mean −0.0249
Std Dev 1.065

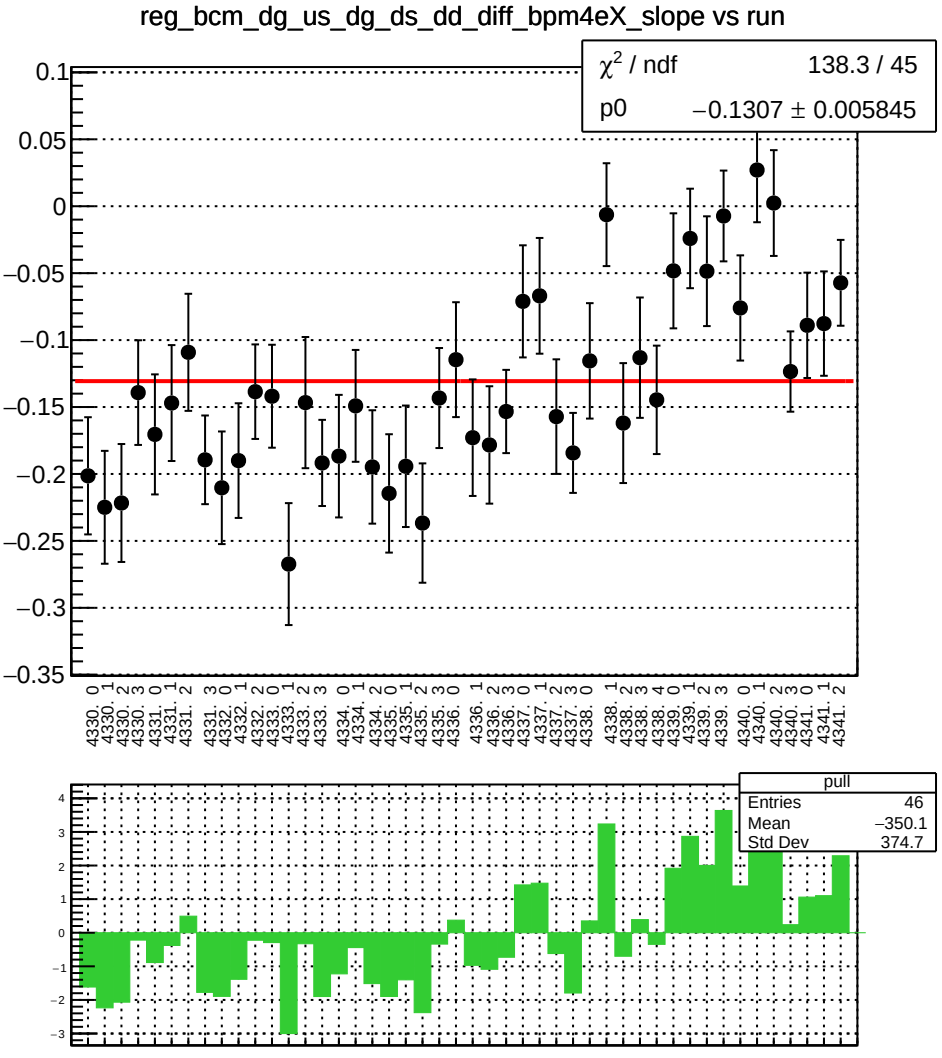

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 41.53 / 45
p0 0.002957 ± 0.004994
pull
Entries 46
Mean 87.06
Std Dev 58.36

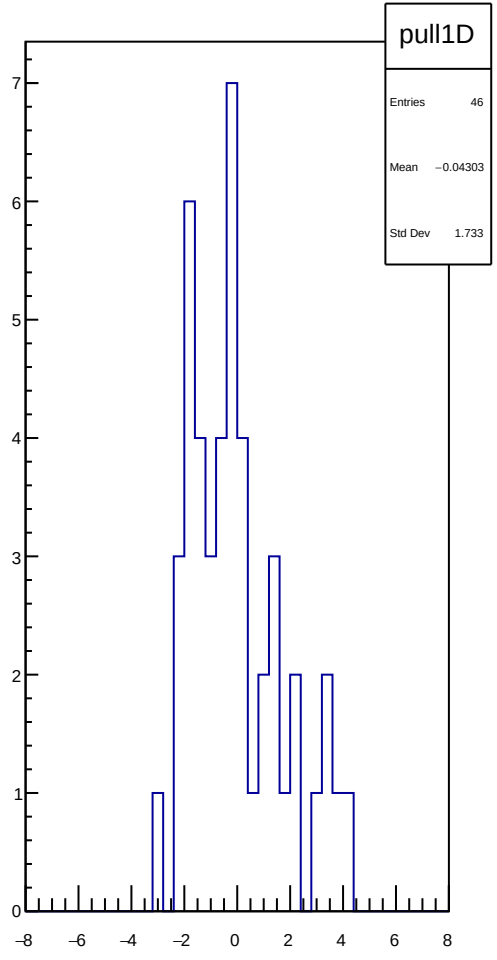

pull1D
Entries 46
Mean −0.01711
Std Dev 0.9501

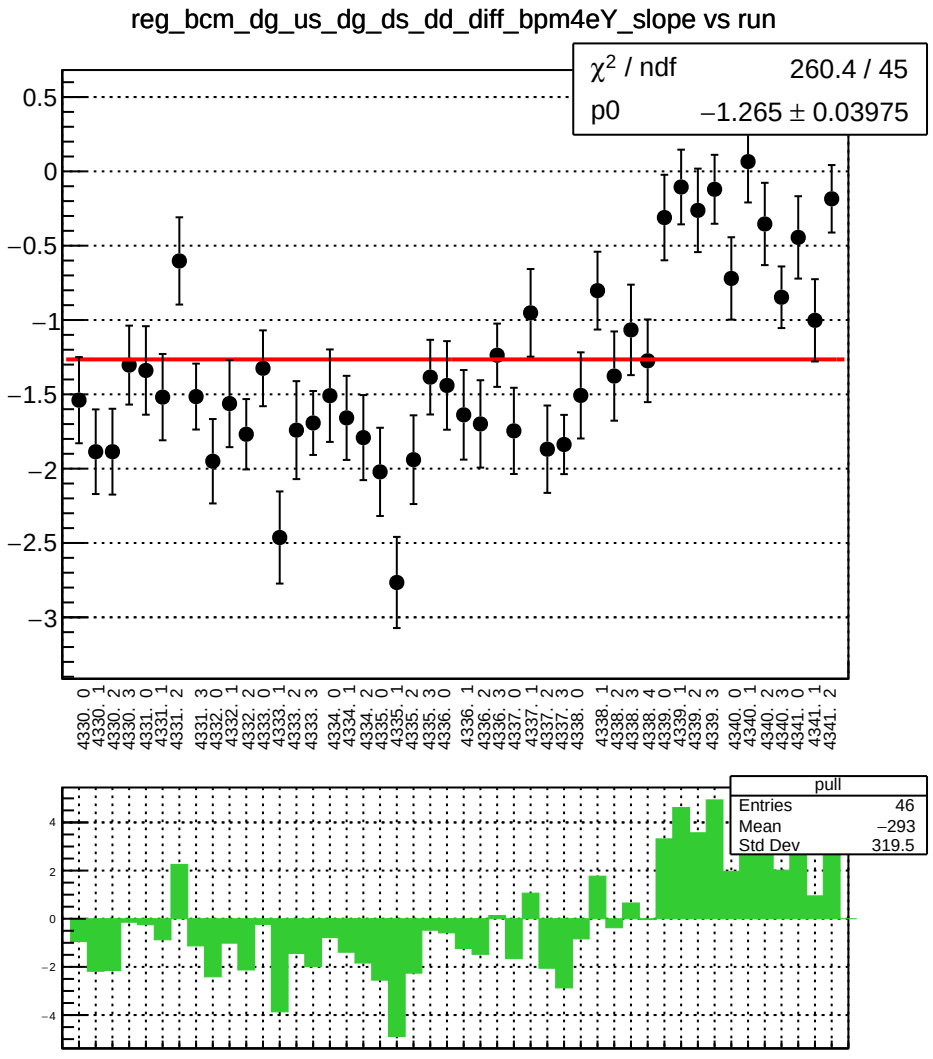

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 54.91 / 45
p0 0.2555 ± 0.03347
pull
Entries 46
Mean −1435
Std Dev 1460

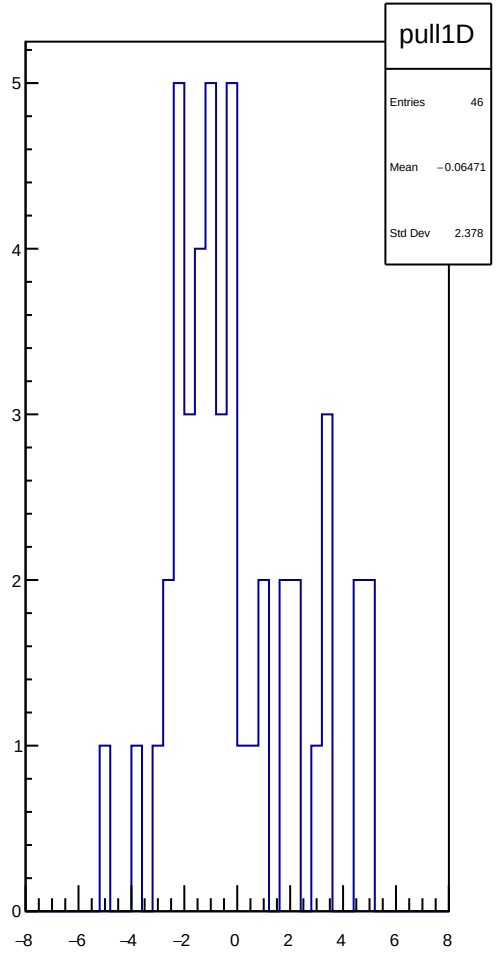

pull1D
Entries 46
Mean 0.00518
Std Dev 1.093

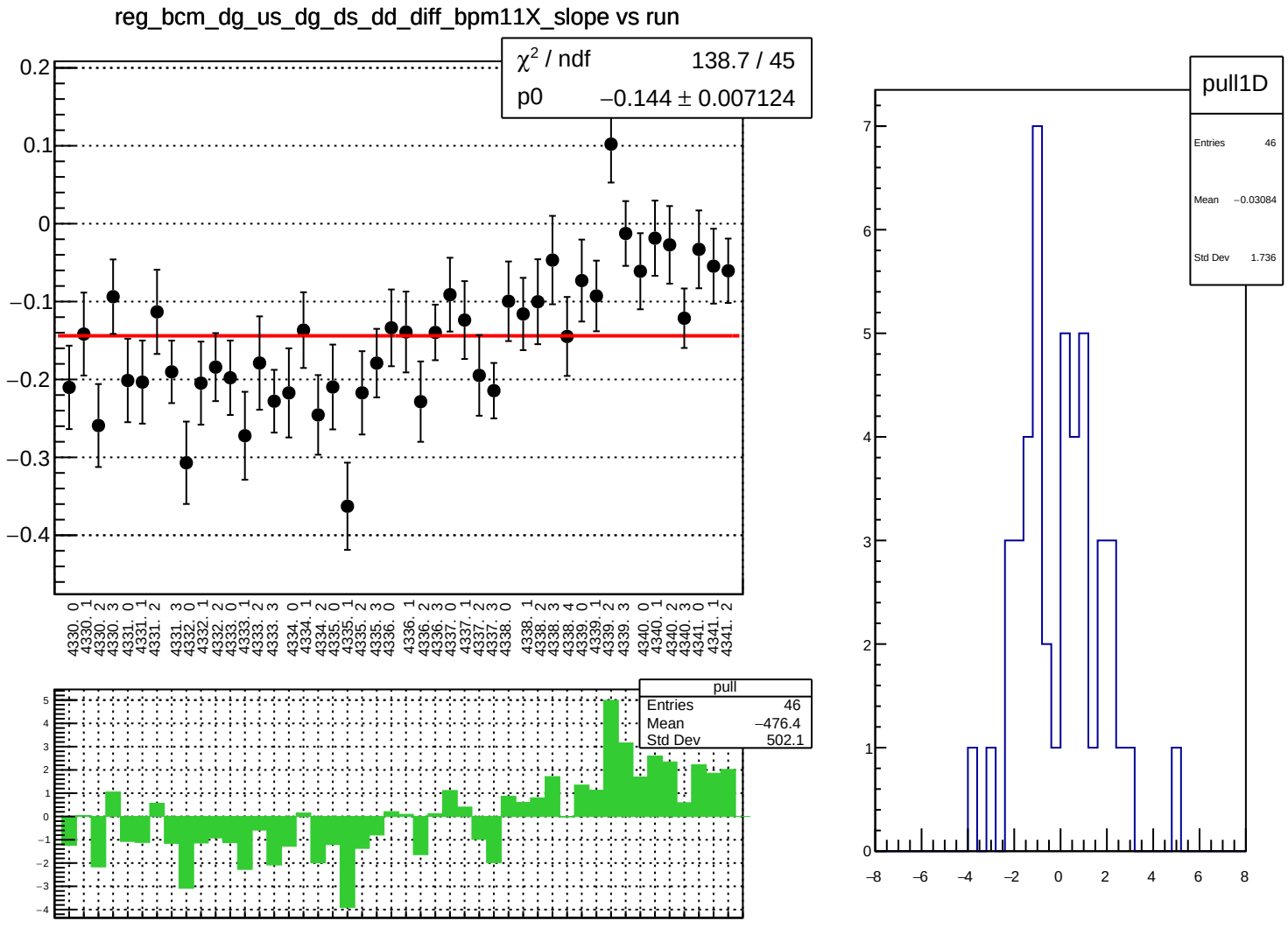

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 223.1 / 45
p0 1.108 ± 0.03664
pull
Entries 46
Mean −293.4
Std Dev 319.9
pull1D
Entries 46
Mean 0.06041
Std Dev 2.202

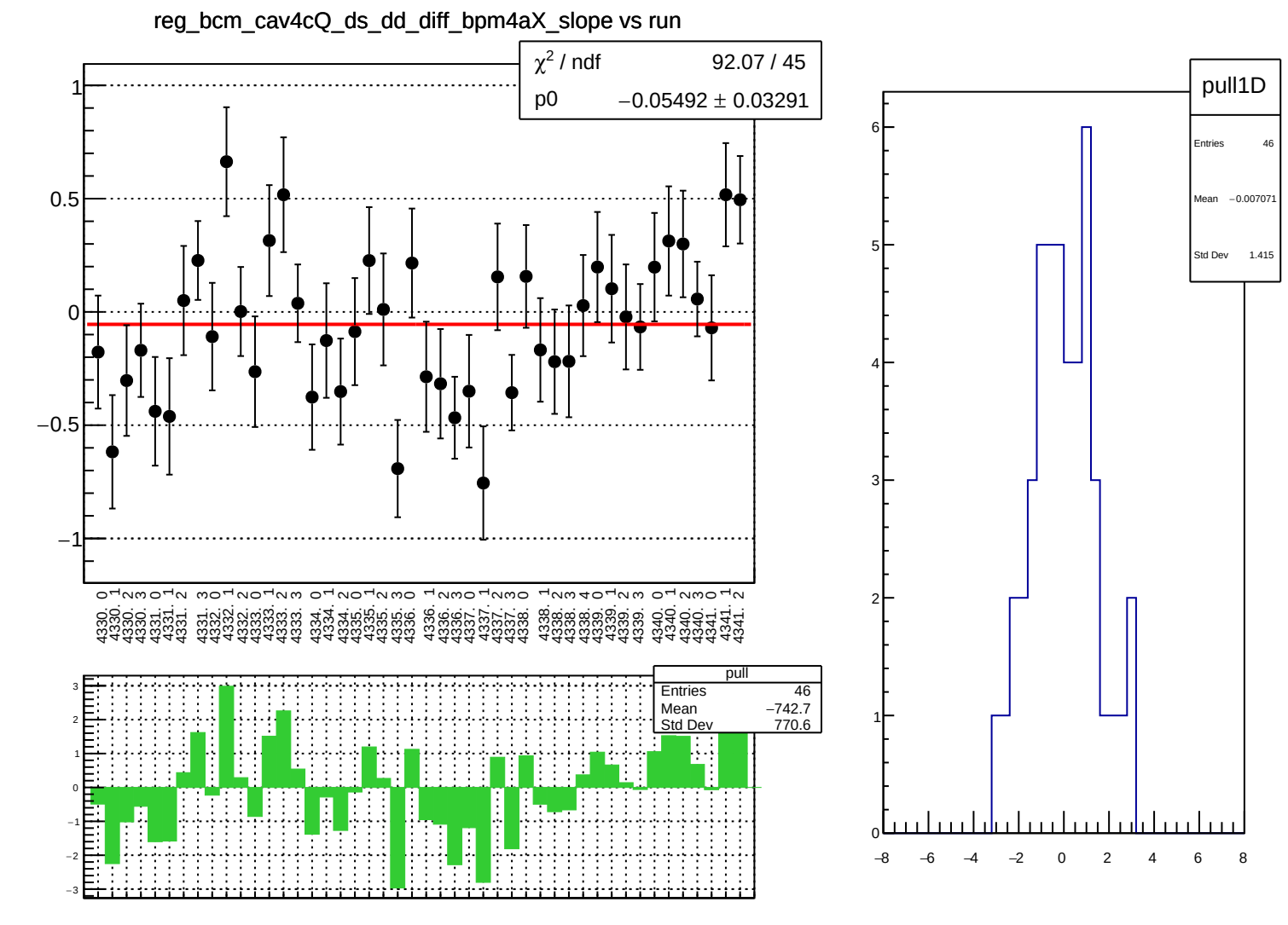

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 138.3 / 45
p0 −0.1307 ± 0.005845
pull
Entries 46
Mean −350.1
Std Dev 374.7

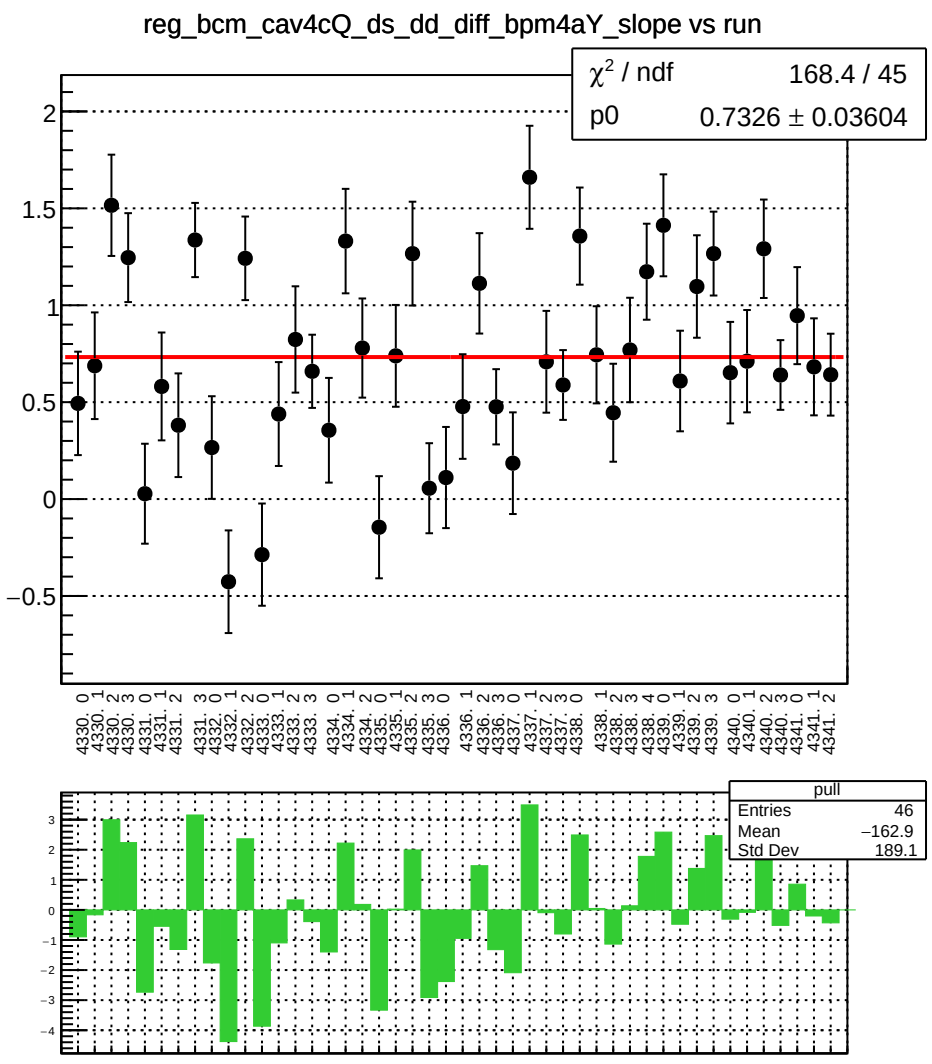

pull1D
Entries 46
Mean −0.04303
Std Dev 1.733

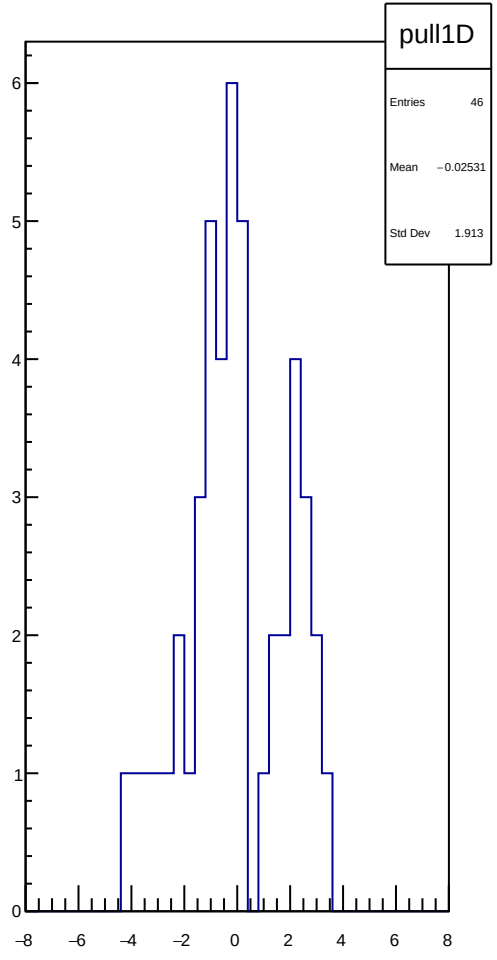

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 260.4 / 45
p0 −1.265 ± 0.03975
pull
Entries 46
Mean −293
Std Dev 319.5

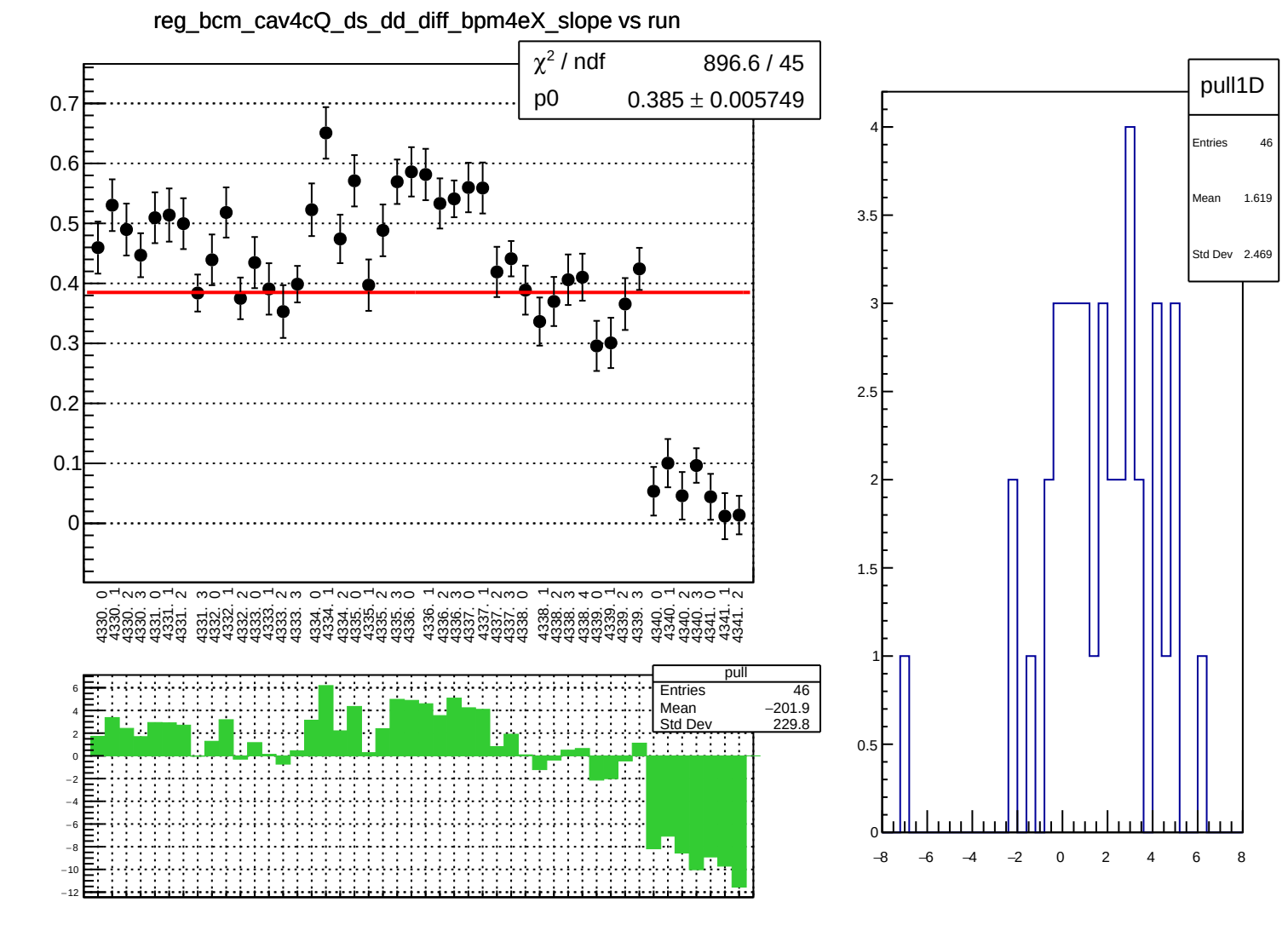

pull1D
Entries 46
Mean −0.06471
Std Dev 2.378

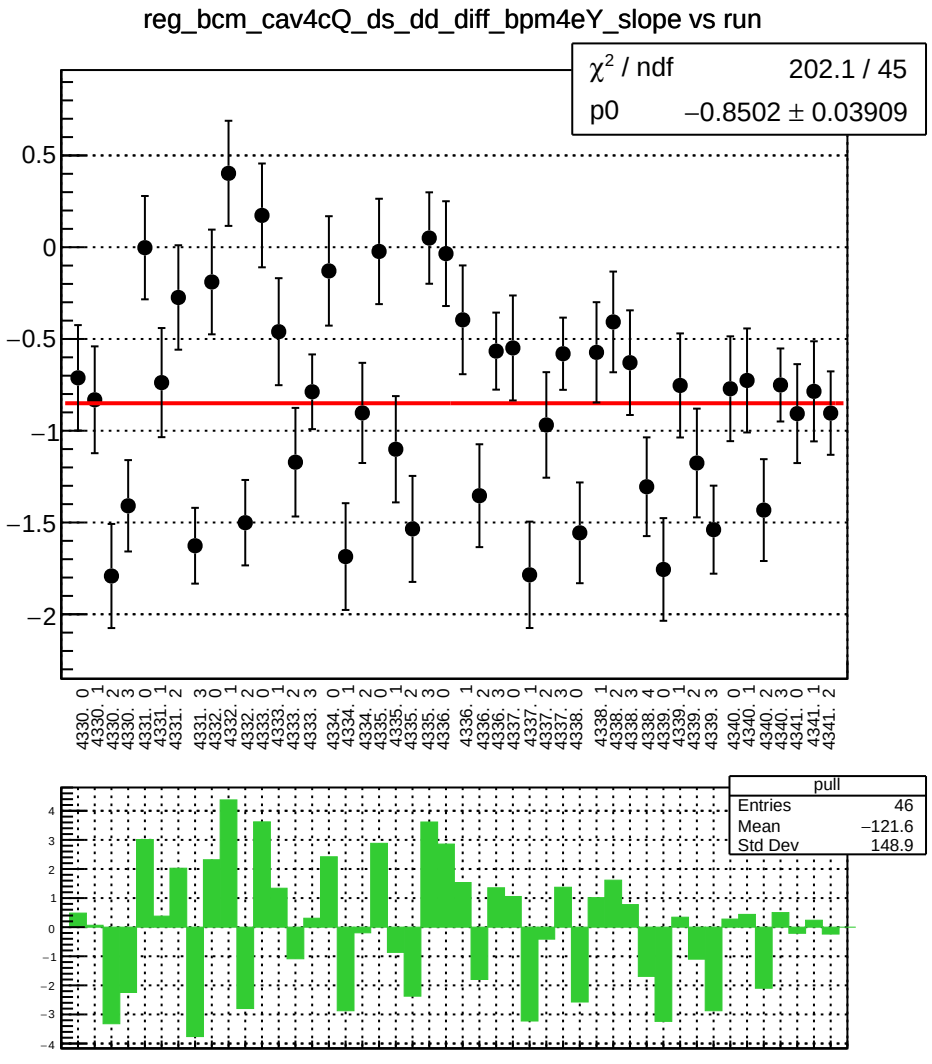

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 138.7 / 45
p0 −0.144 ± 0.007124
pull
Entries 46
Mean −476.4
Std Dev 502.1
pull1D
Entries 46
Mean −0.03084
Std Dev 1.736

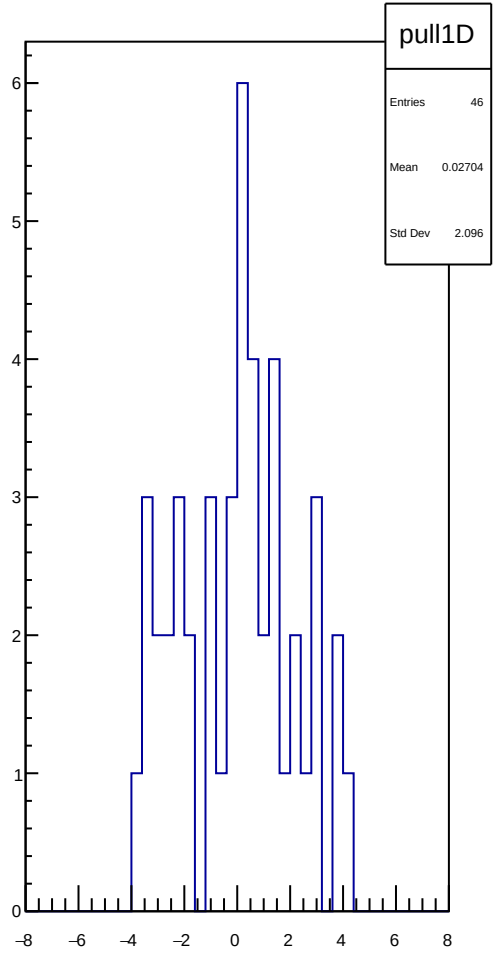

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 92.07 / 45
p0 −0.05492 ± 0.03291
pull
Entries 46
Mean −742.7
Std Dev 770.6
pull1D
Entries 46
Mean −0.007071
Std Dev 1.415

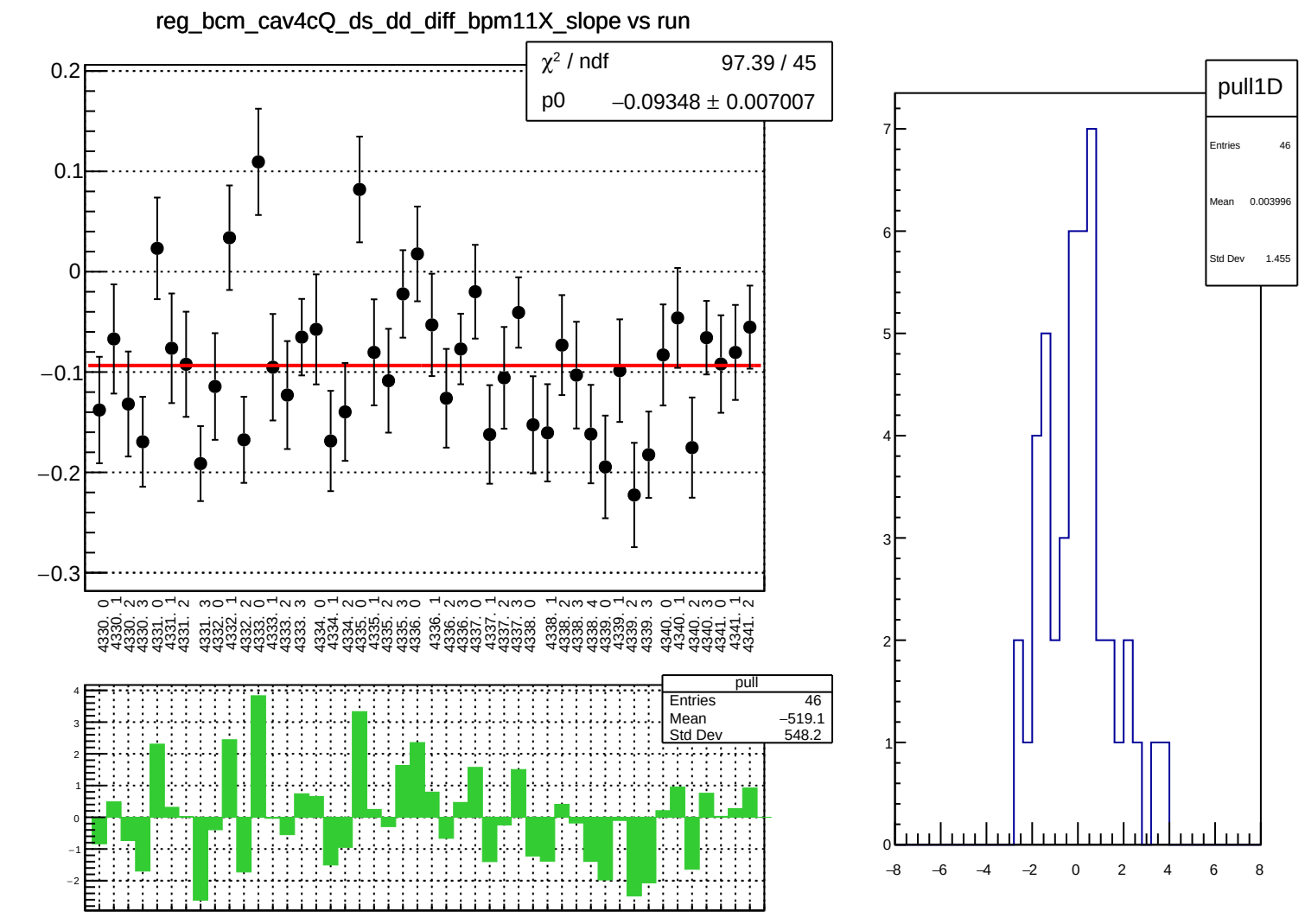

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 168.4 / 45
p0 0.7326 ± 0.03604
pull
Entries 46
Mean −162.9
Std Dev 189.1

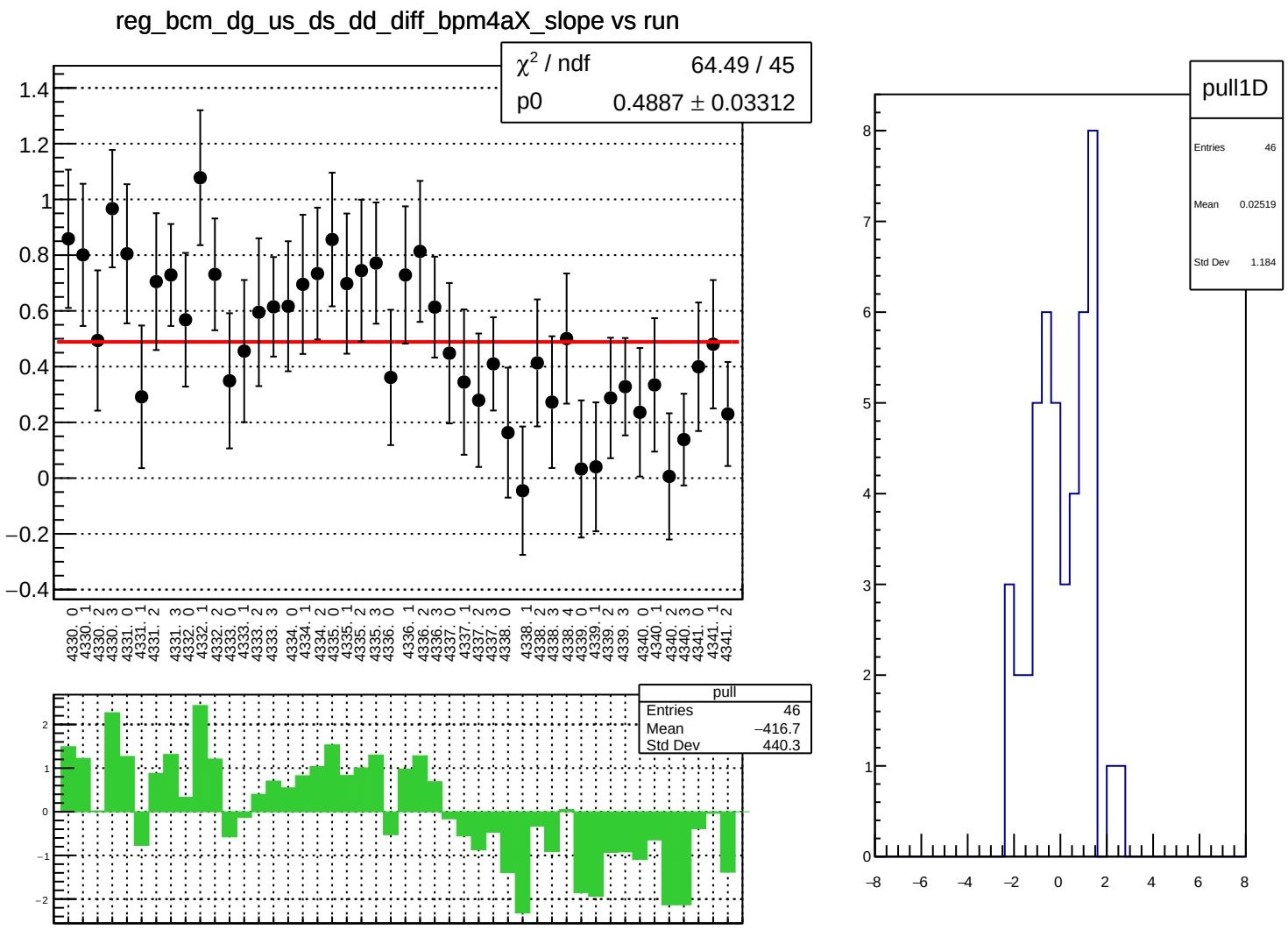

pull1D
Entries 46
Mean −0.02531
Std Dev 1.913

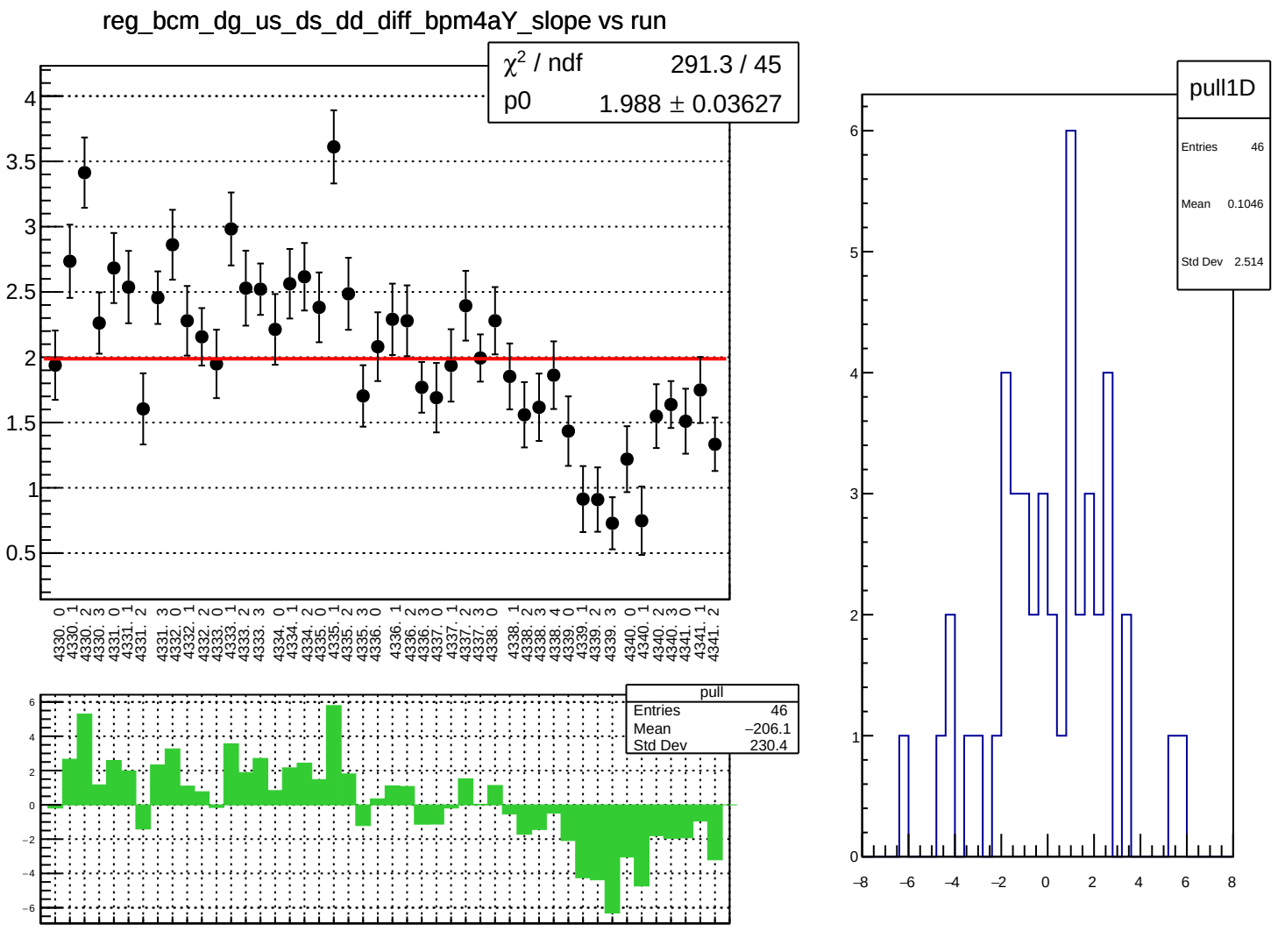

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 896.6 / 45
p0 0.385 ± 0.005749
pull
Entries 46
Mean −201.9
Std Dev 229.8
pull1D
Entries 46
Mean 1.619
Std Dev 2.469

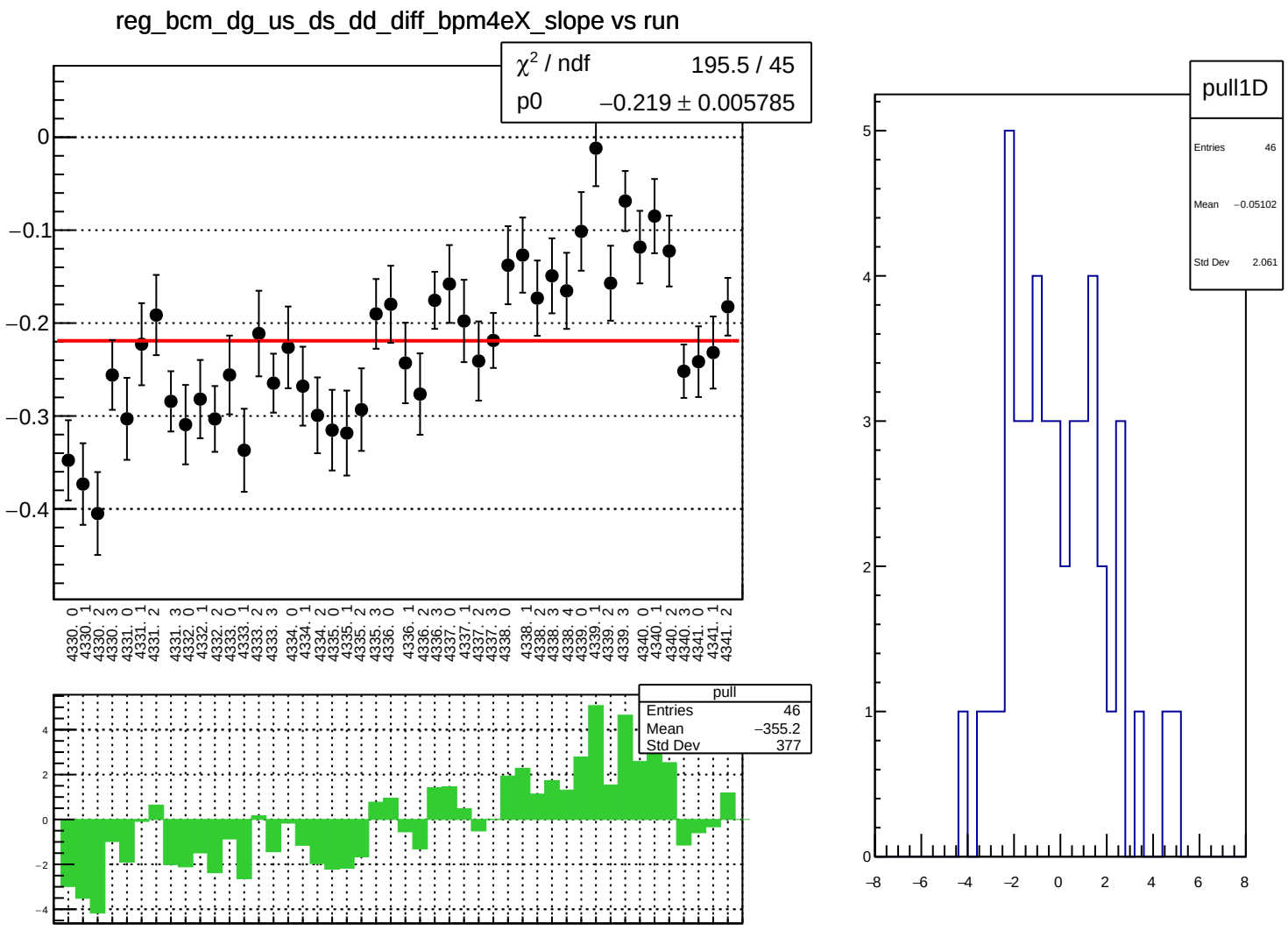

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 202.1 / 45
p0 −0.8502 ± 0.03909
pull
Entries 46
Mean −121.6
Std Dev 148.9

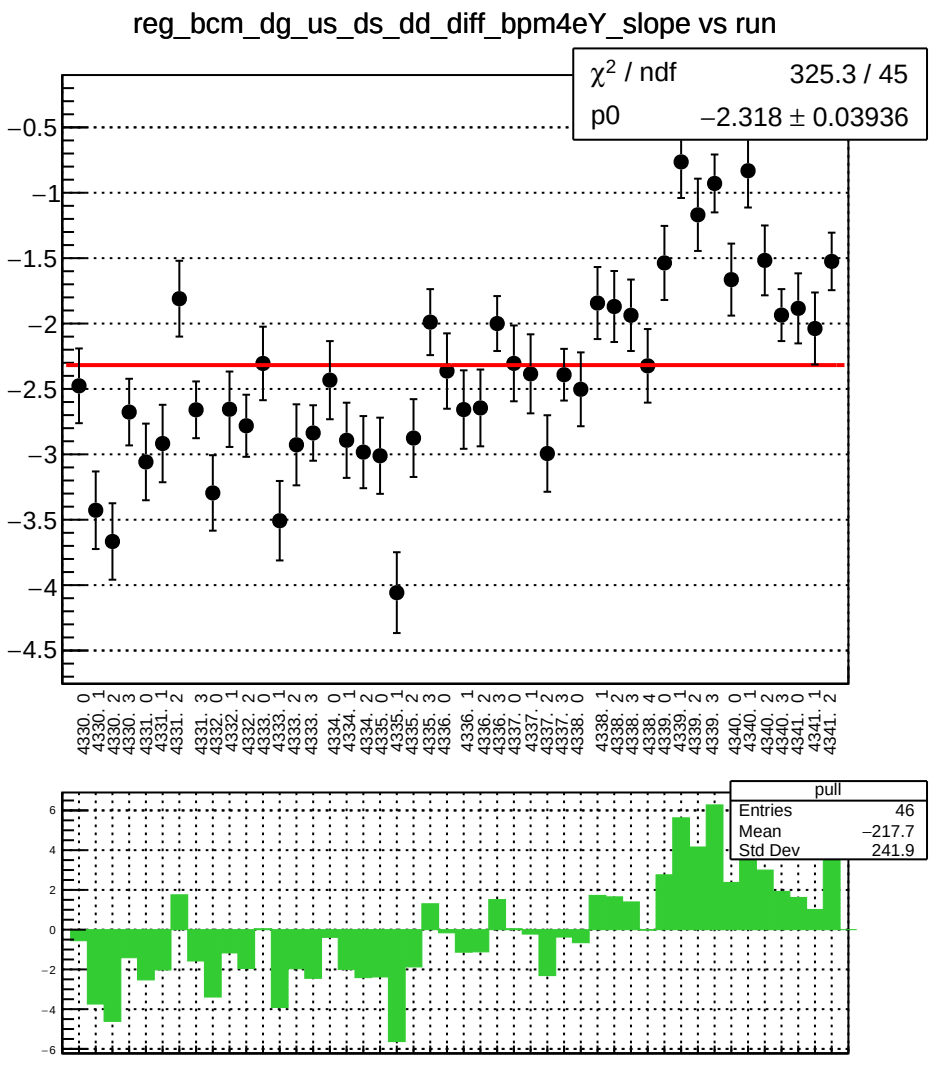

pull1D
Entries 46
Mean 0.02704
Std Dev 2.096

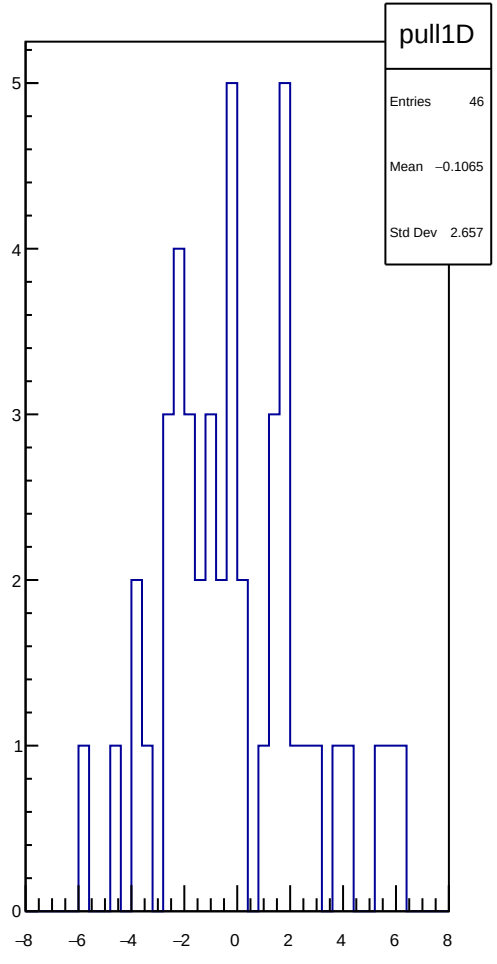

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 97.39 / 45
p0 −0.09348 ± 0.007007
0.2
0.1
0
−0.1
−0.2
−0.3
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4334. 3
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −519.1
Std Dev 548.2
4
3
2
1
0
−1
−2
pull1D
Entries 46
Mean 0.003996
Std Dev 1.455
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

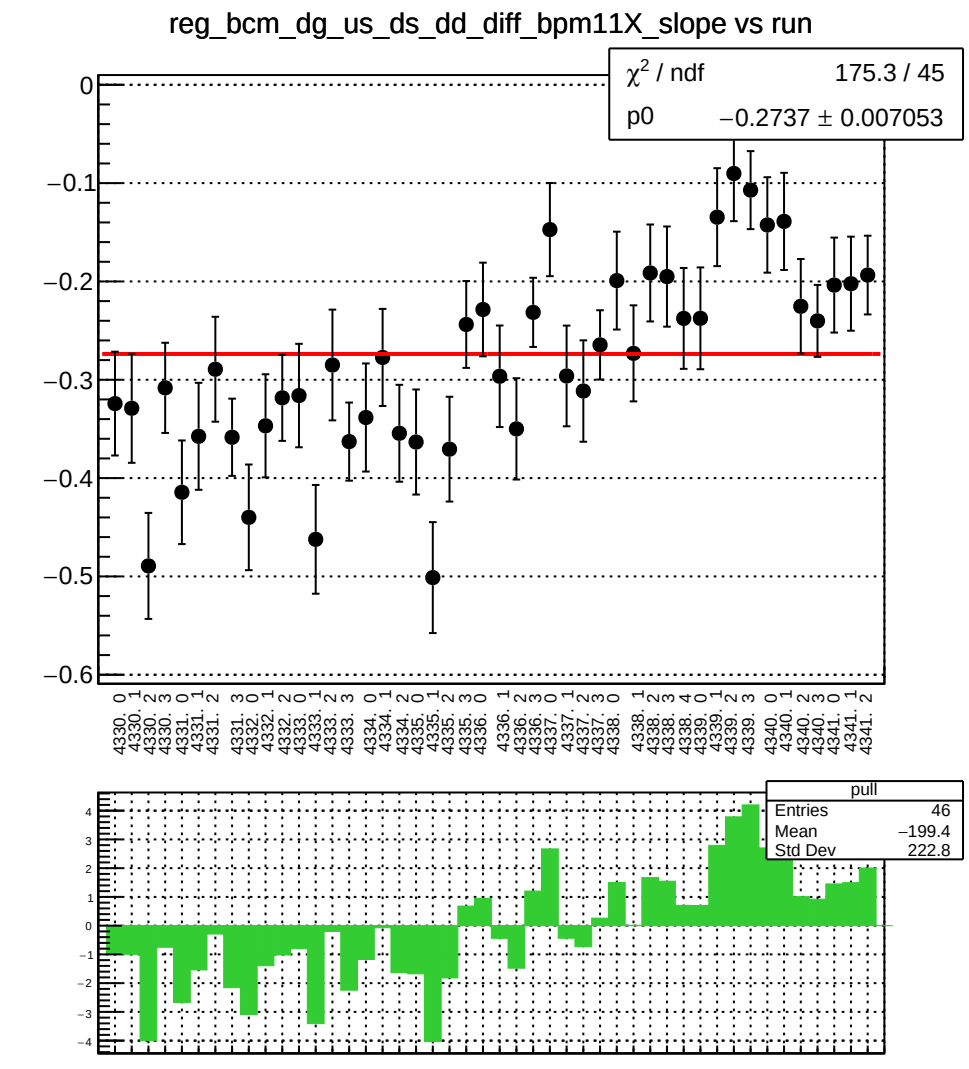

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.49 / 45
p0 0.4887 ± 0.03312
pull
Entries 46
Mean −416.7
Std Dev 440.3
pull1D
Entries 46
Mean 0.02519
Std Dev 1.184

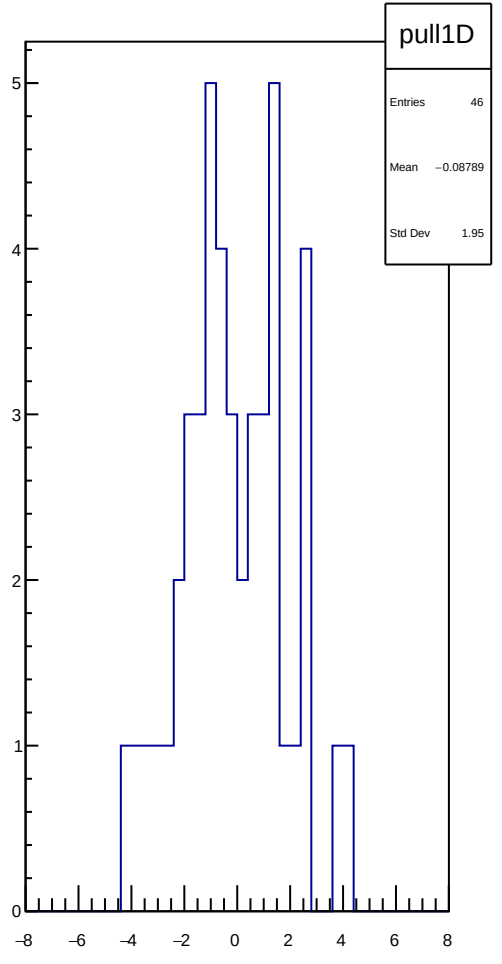

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 291.3 / 45
p0 1.988 ± 0.03627
pull
Entries 46
Mean −206.1
Std Dev 230.4
pull1D
Entries 46
Mean 0.1046
Std Dev 2.514

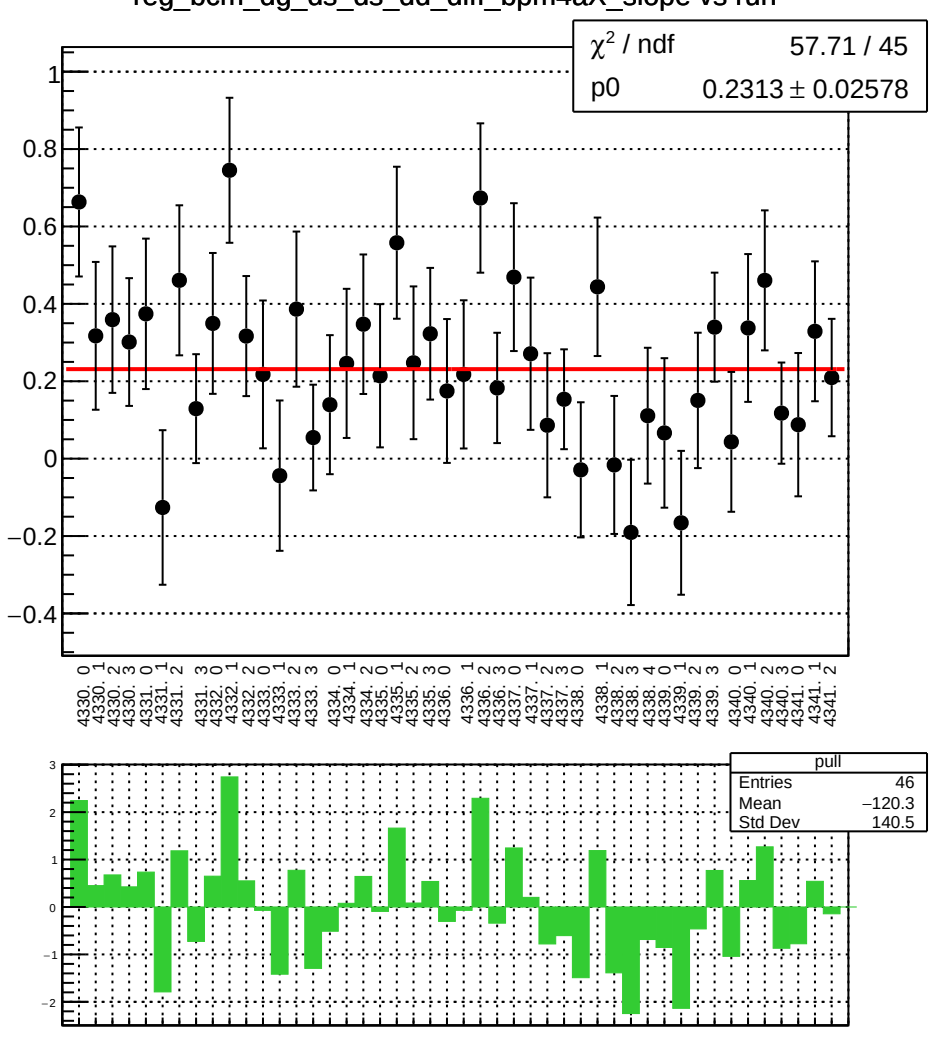

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 195.5 / 45
p0 −0.219 ± 0.005785
0
−0.1
−0.2
−0.3
−0.4
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −355.2
Std Dev 377
4
2
0
−2
−4
pull1D
Entries 46
Mean −0.05102
Std Dev 2.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

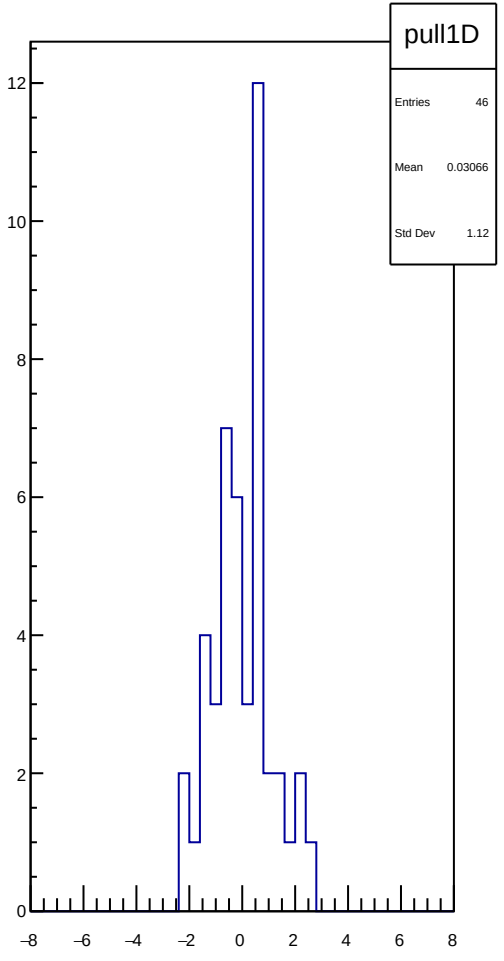

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 325.3 / 45
p0 −2.318 ± 0.03936
pull
Entries 46
Mean −217.7
Std Dev 241.9

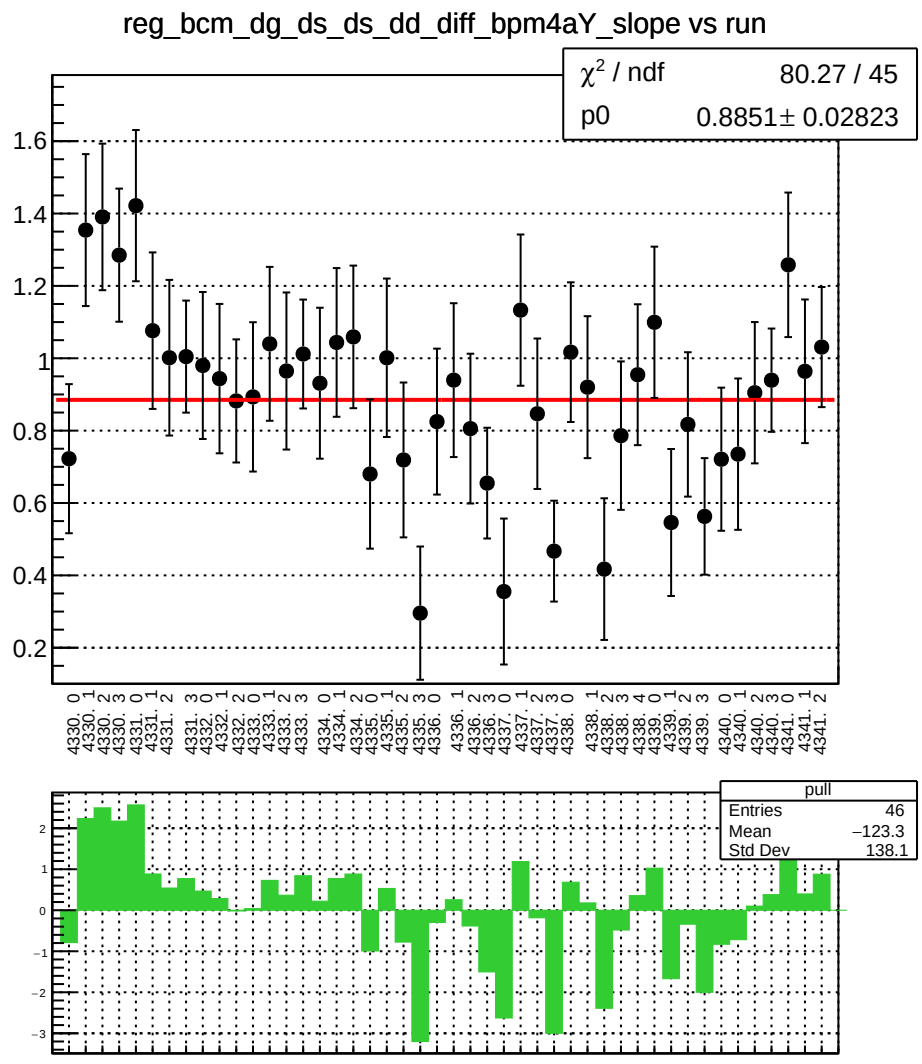

pull1D
Entries 46
Mean −0.1065
Std Dev 2.657

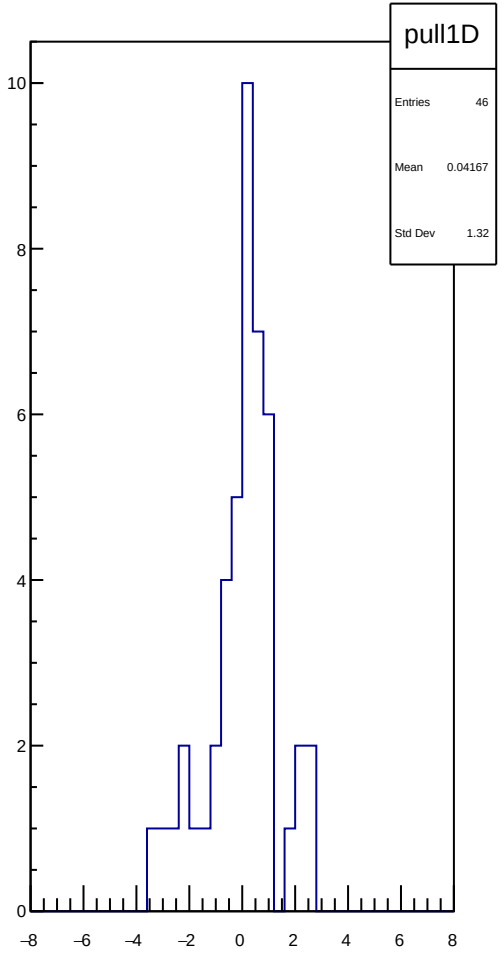

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 175.3 / 45
p0 −0.2737 ± 0.007053
pull
Entries 46
Mean −199.4
Std Dev 222.8

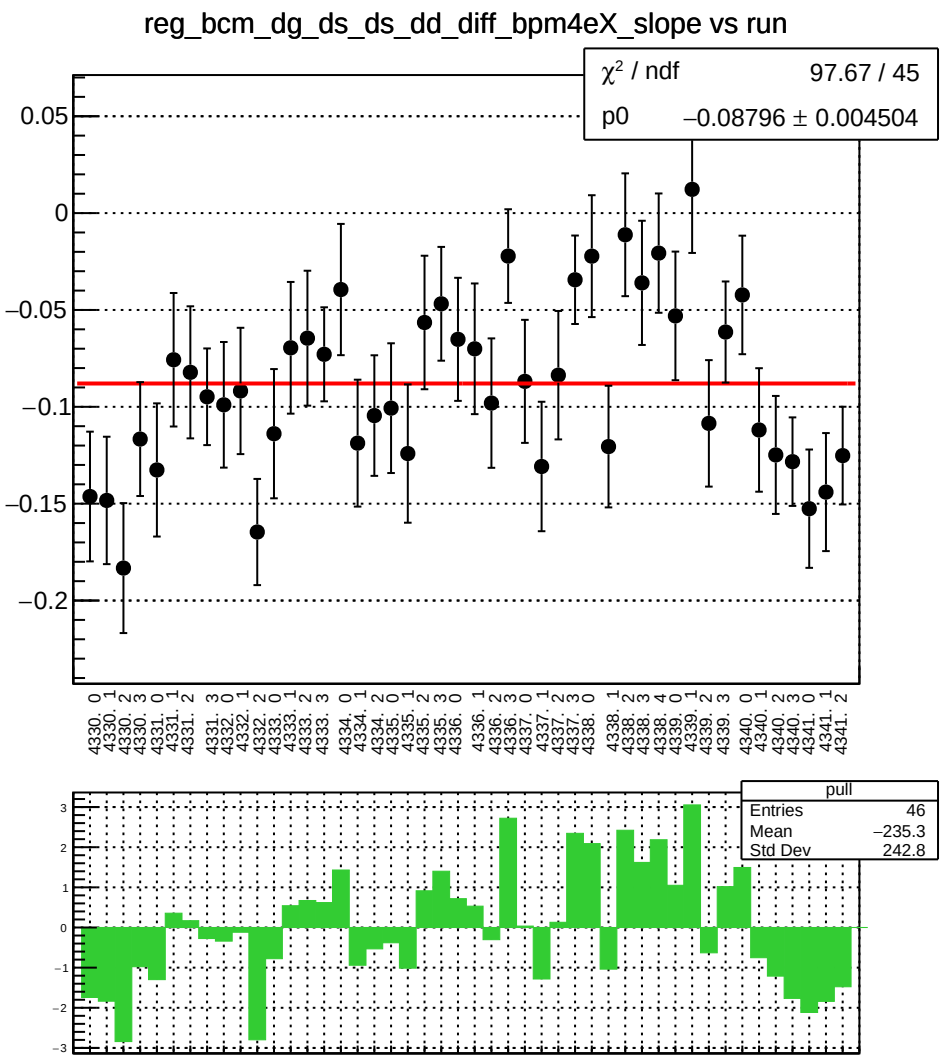

pull1D
Entries 46
Mean −0.08789
Std Dev 1.95

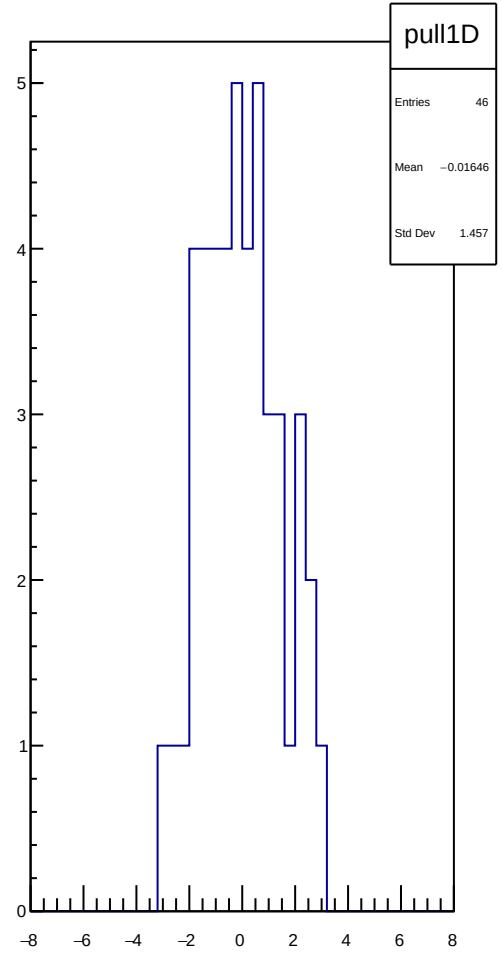

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.71 / 45
p0 0.2313 ± 0.02578
pull
Entries 46
Mean −120.3
Std Dev 140.5

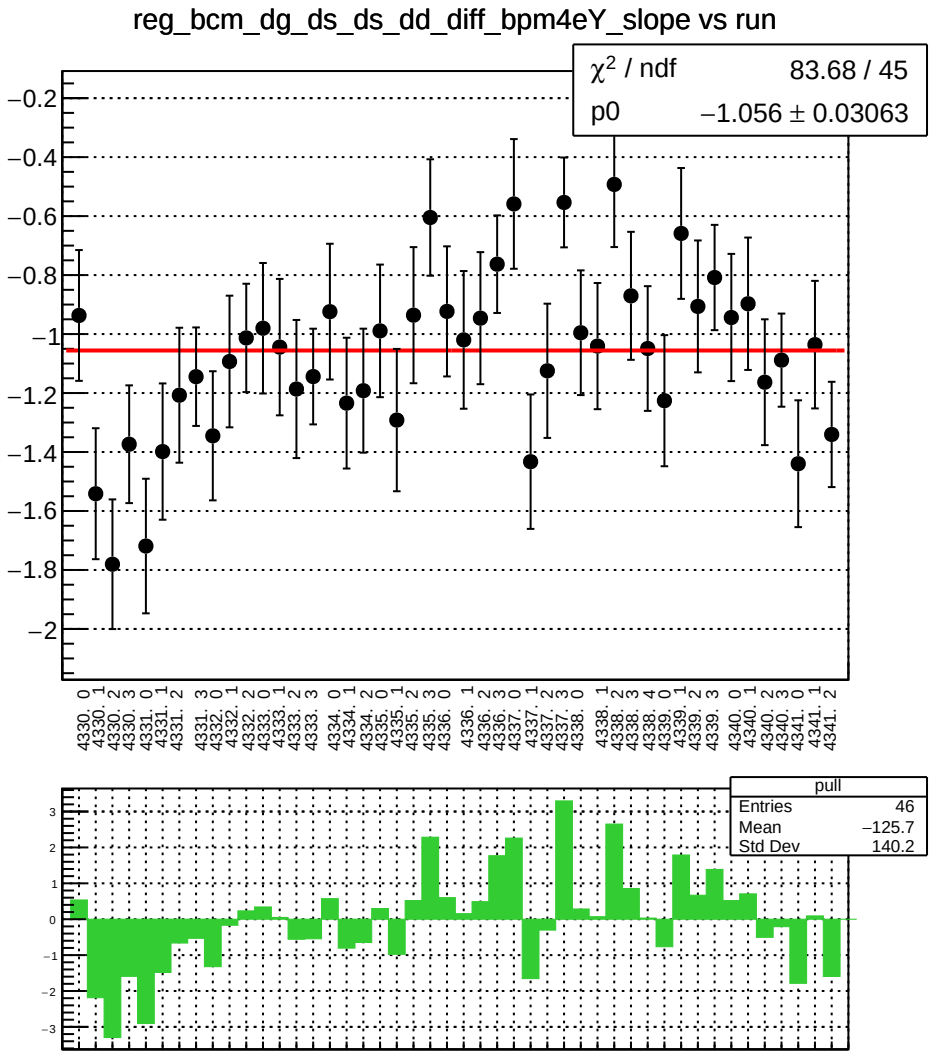

pull1D
Entries 46
Mean 0.03066
Std Dev 1.12

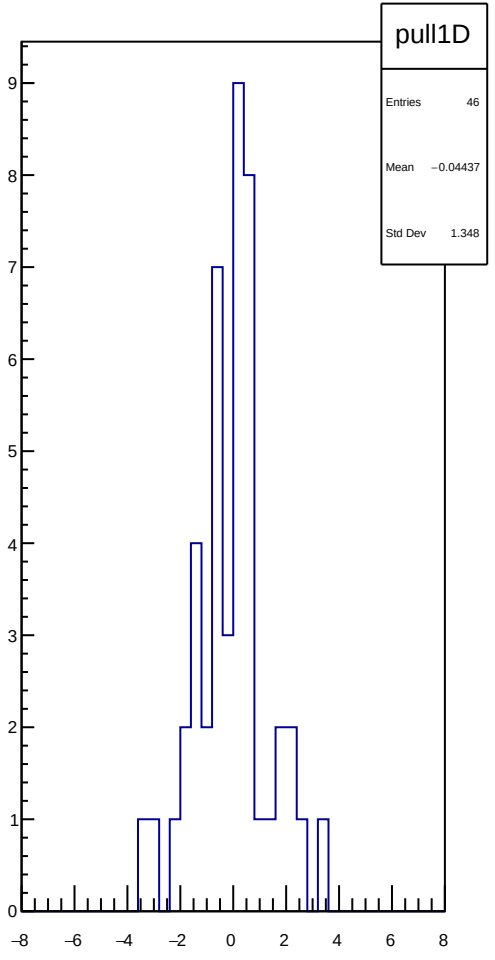

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.27 / 45
p0 0.8851± 0.02823
pull
Entries 46
Mean −123.3
Std Dev 138.1

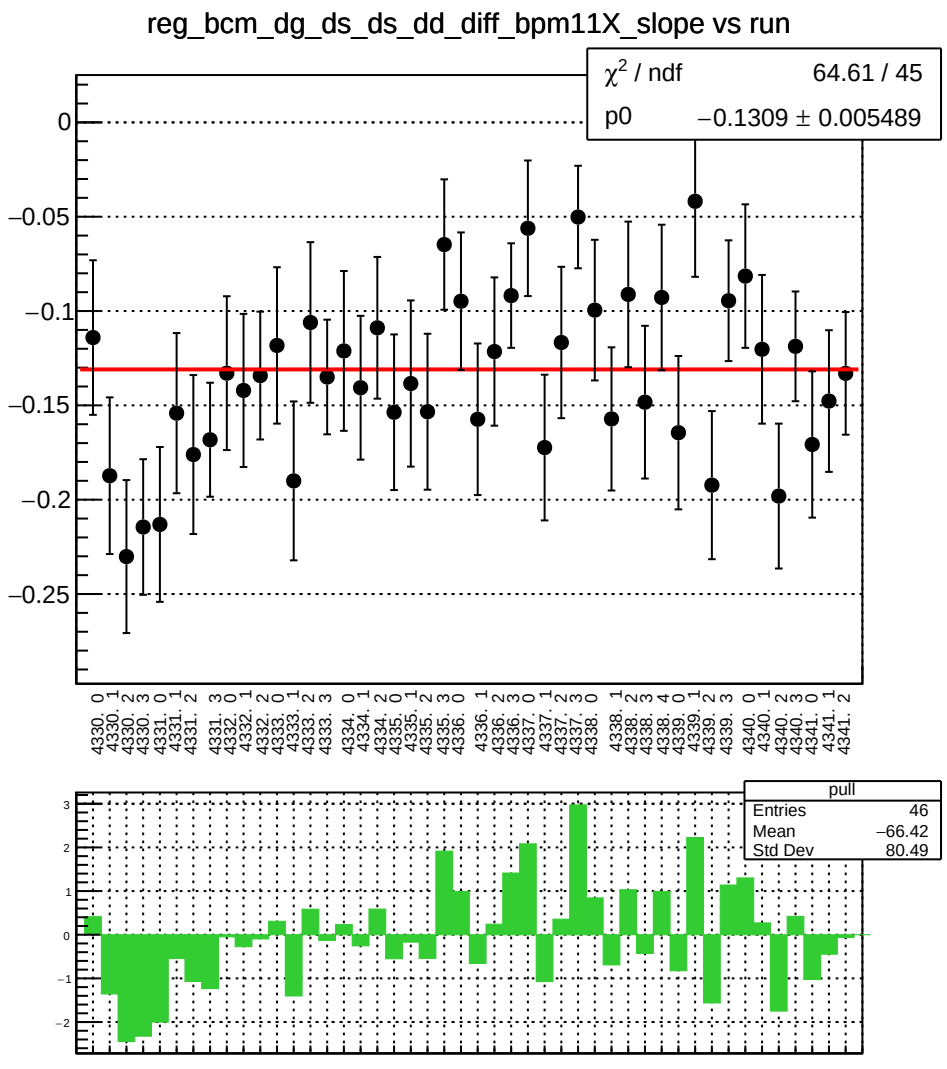

pull1D
Entries 46
Mean 0.04167
Std Dev 1.32

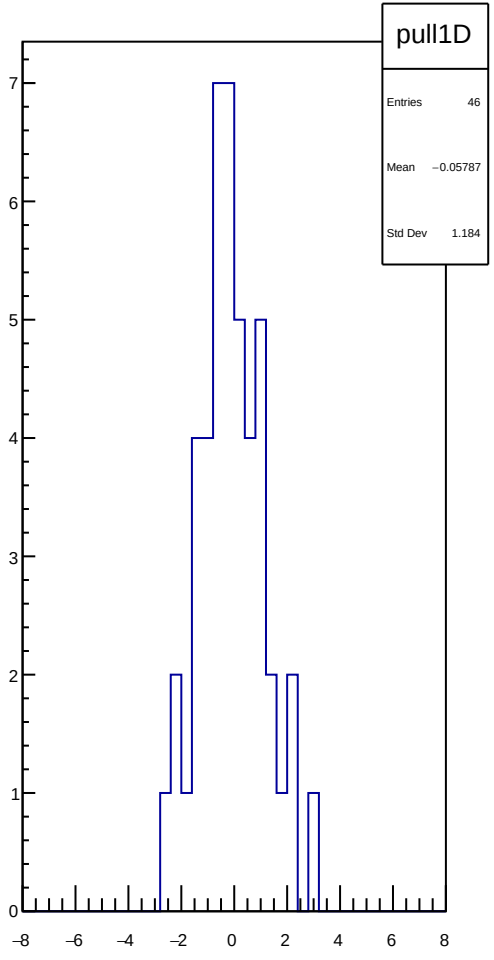

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.67 / 45
p0 −0.08796 ± 0.004504
0.05
0
−0.05
−0.1
−0.15
−0.2
4330. 0
4330. 1
4330. 2
4330. 3
4331. 0
4331. 1
4331. 2
4331. 3
4332. 0
4332. 1
4332. 2
4333. 0
4333. 1
4333. 2
4333. 3
4334. 0
4334. 1
4334. 2
4335. 0
4335. 1
4335. 2
4335. 3
4336. 0
4336. 1
4336. 2
4336. 3
4337. 0
4337. 1
4337. 2
4337. 3
4338. 0
4338. 1
4338. 2
4338. 3
4338. 4
4339. 0
4339. 1
4339. 2
4339. 3
4340. 0
4340. 1
4340. 2
4340. 3
4341. 0
4341. 1
4341. 2
pull
Entries 46
Mean −235.3
Std Dev 242.8
3
2
1
0
−1
−2
−3


pull1D
Entries 46
Mean −0.01646
Std Dev 1.457
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.68 / 45
p0 −1.056 ± 0.03063
pull
Entries 46
Mean −125.7
Std Dev 140.2


pull1D
Entries 46
Mean −0.04437
Std Dev 1.348


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 64.61 / 45
p0 −0.1309 ± 0.005489
pull
Entries 46
Mean −66.42
Std Dev 80.49


pull1D
Entries 46
Mean −0.05787
Std Dev 1.184