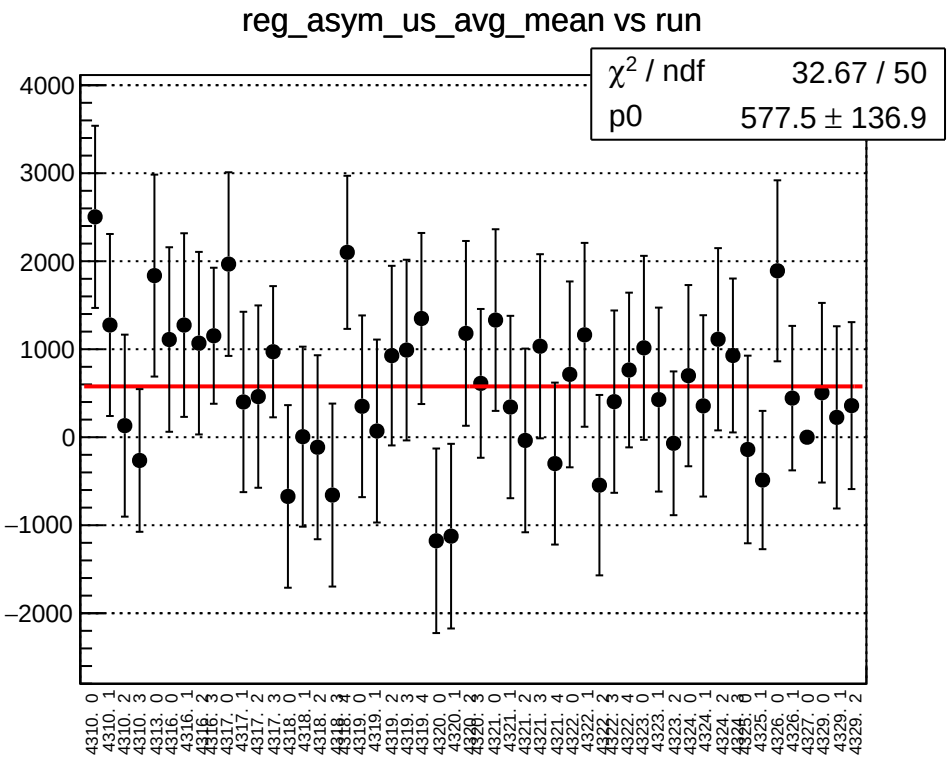
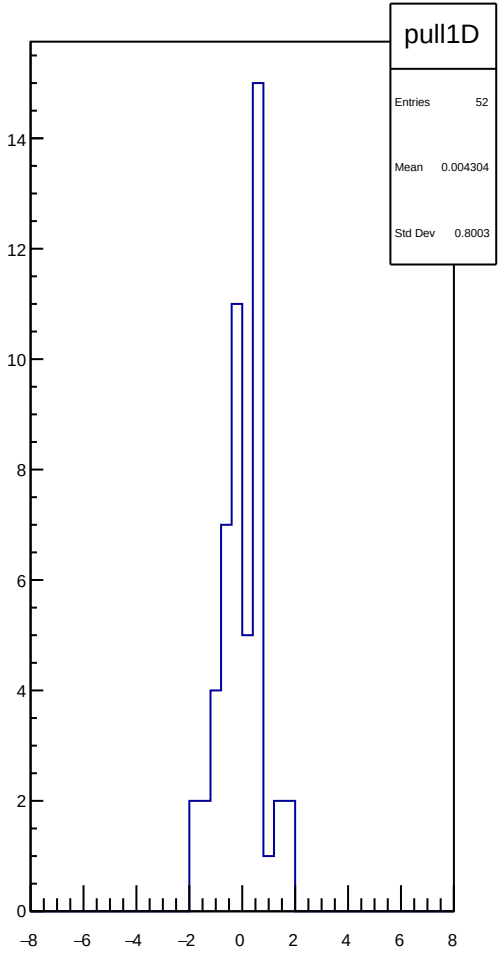
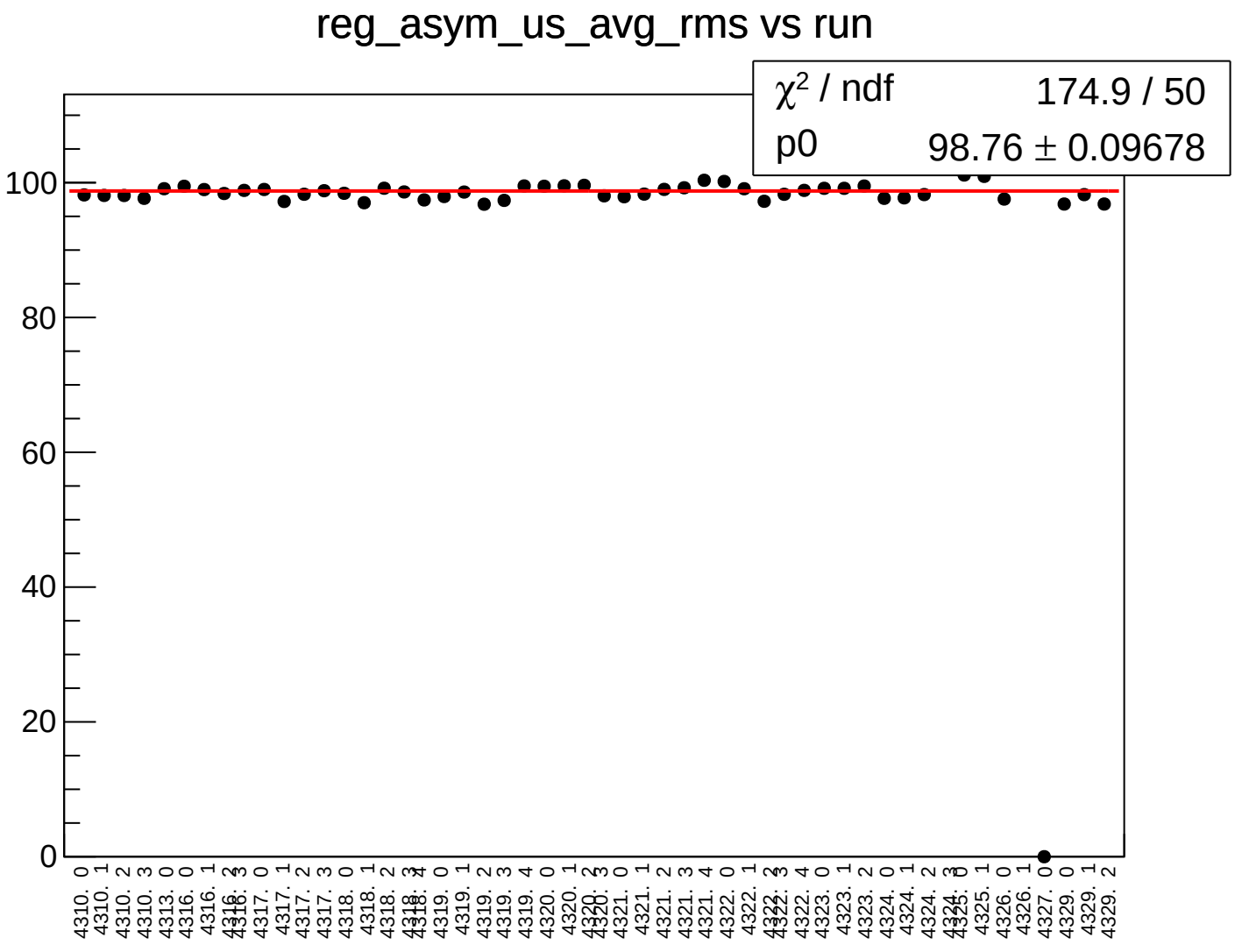
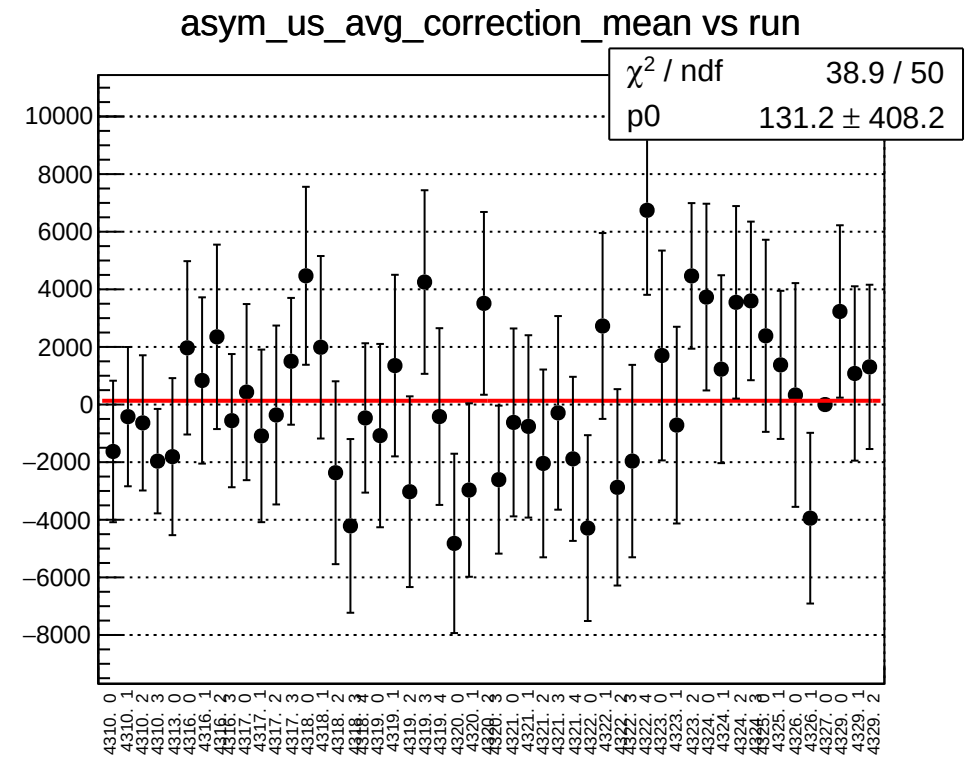
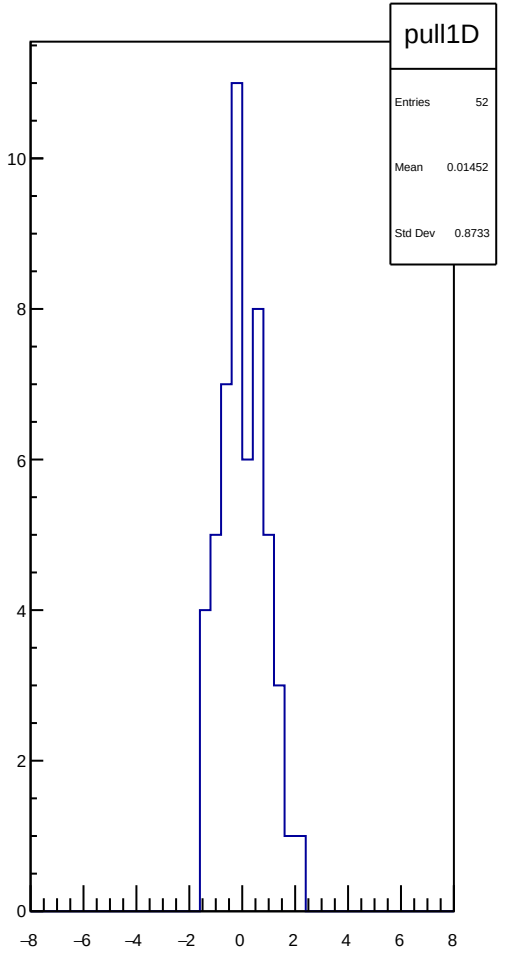
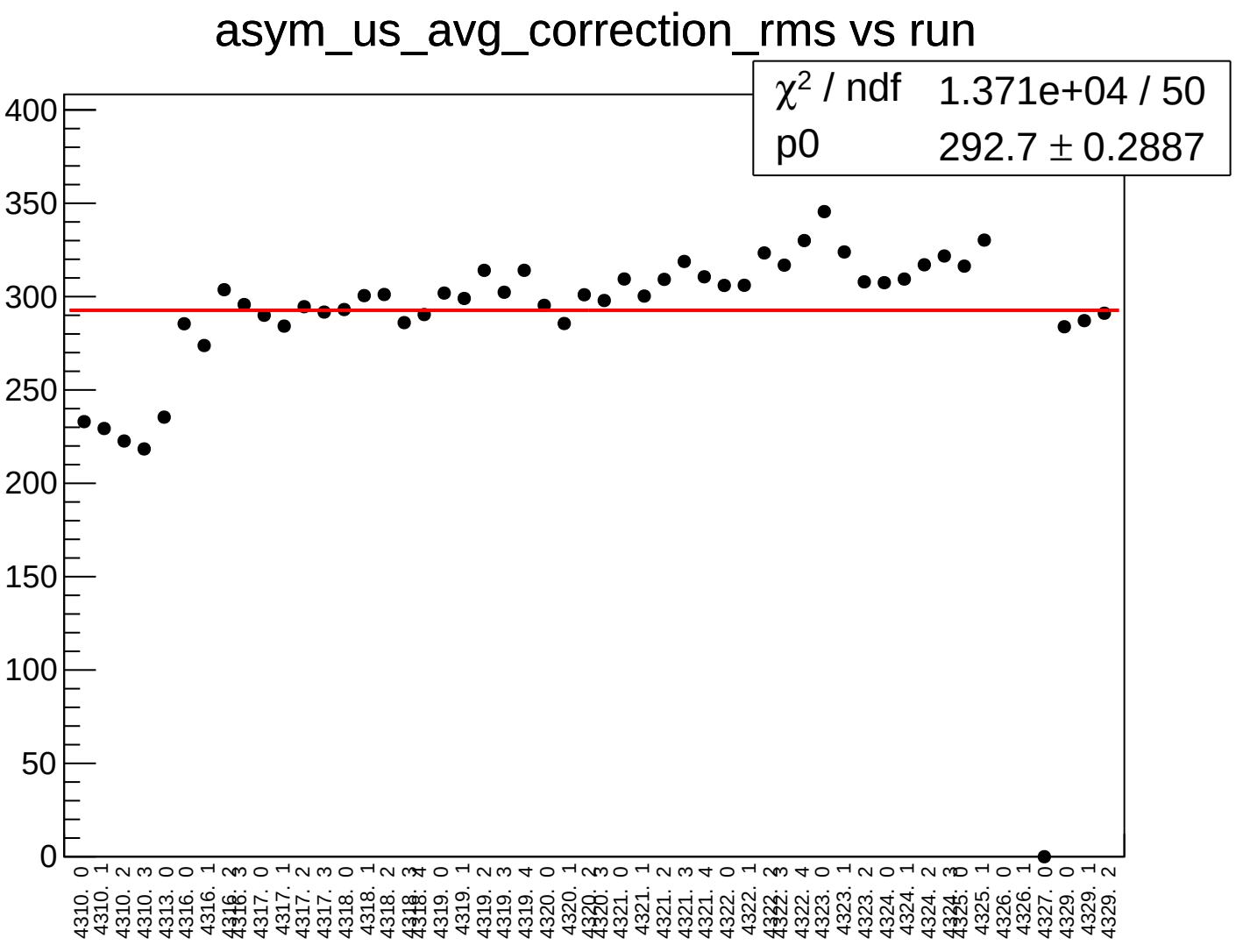

reg_asym_us_avg_mean vs run
χ² / ndf 32.67 / 50
p0 577.5 ± 136.9
4000
3000
2000
1000
0
−1000
−2000

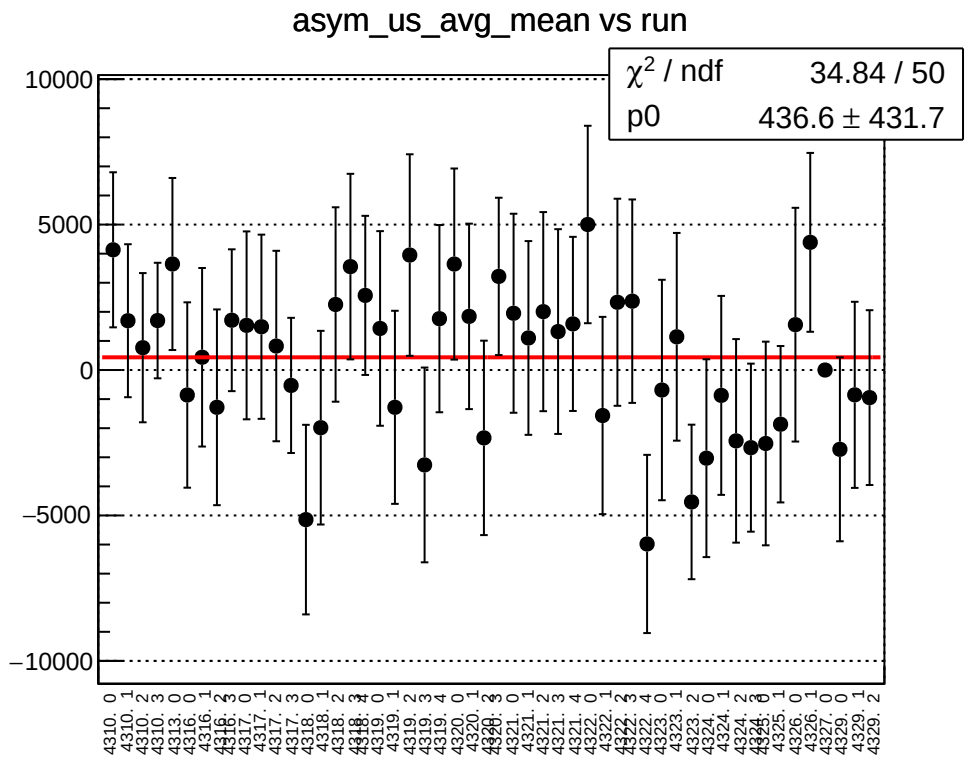

pull1D
Entries 52
Mean 0.004304
Std Dev 0.8003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

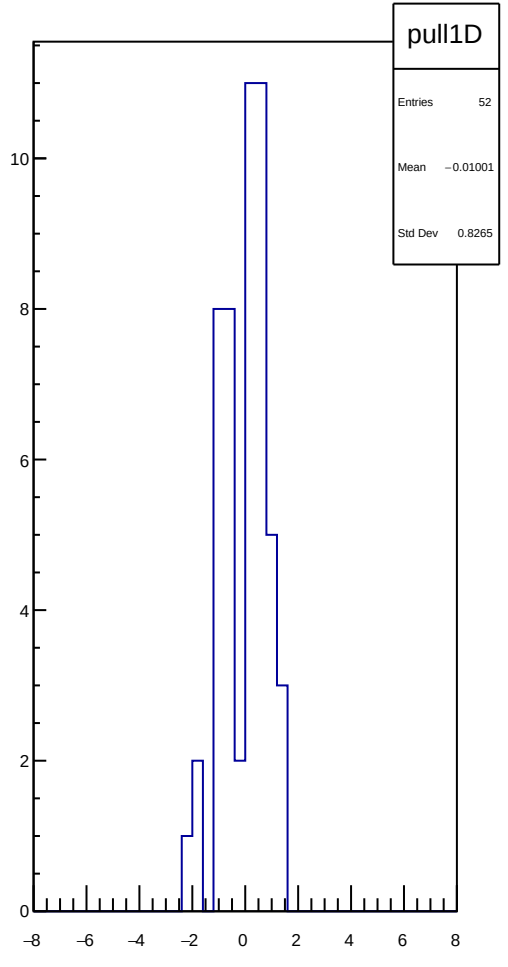

reg_asym_us_avg_rms vs run
χ² / ndf 174.9 / 50
p0 98.76 ± 0.09678
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

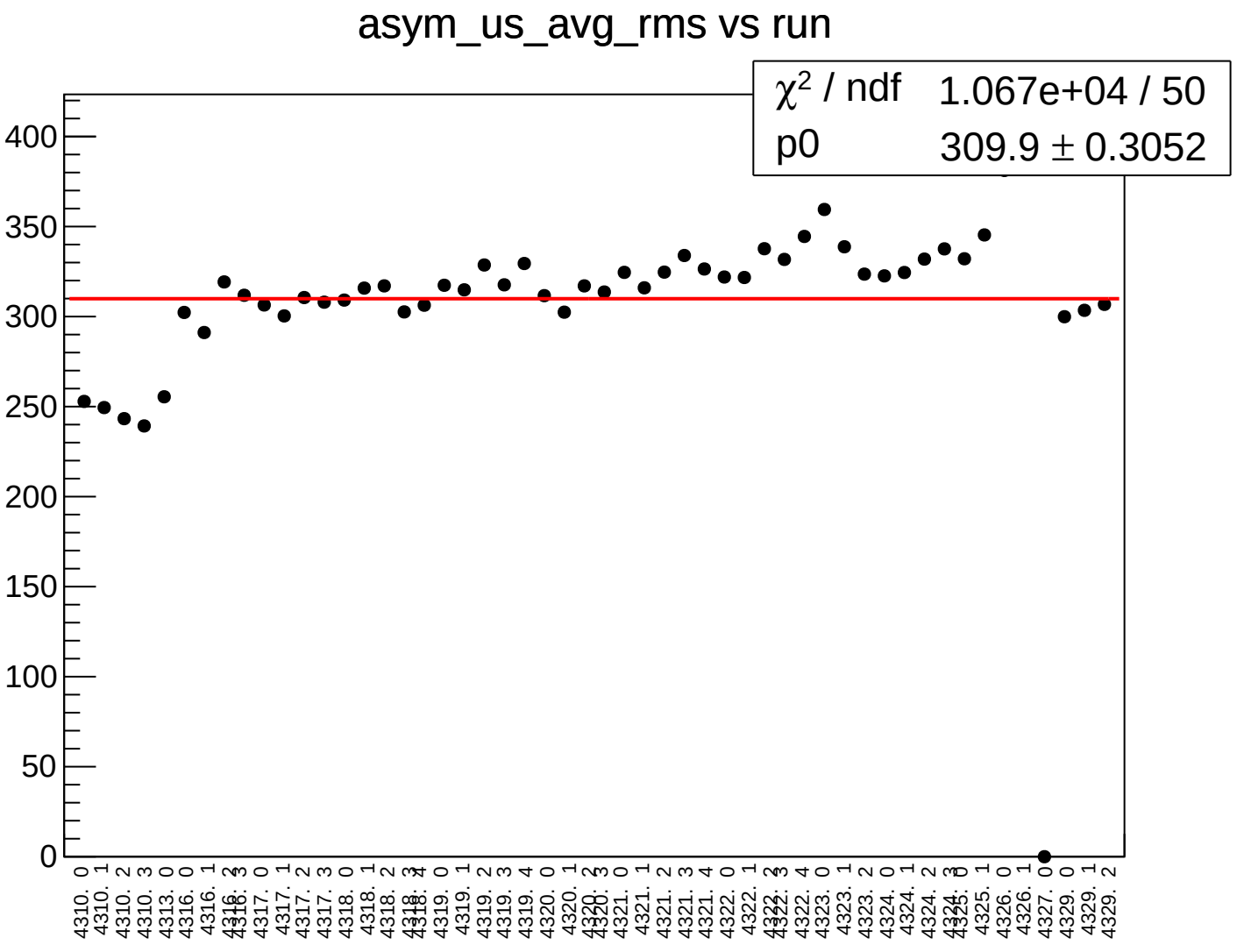

asym_us_avg_correction_mean vs run
χ² / ndf 38.9 / 50
p0 131.2 ± 408.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

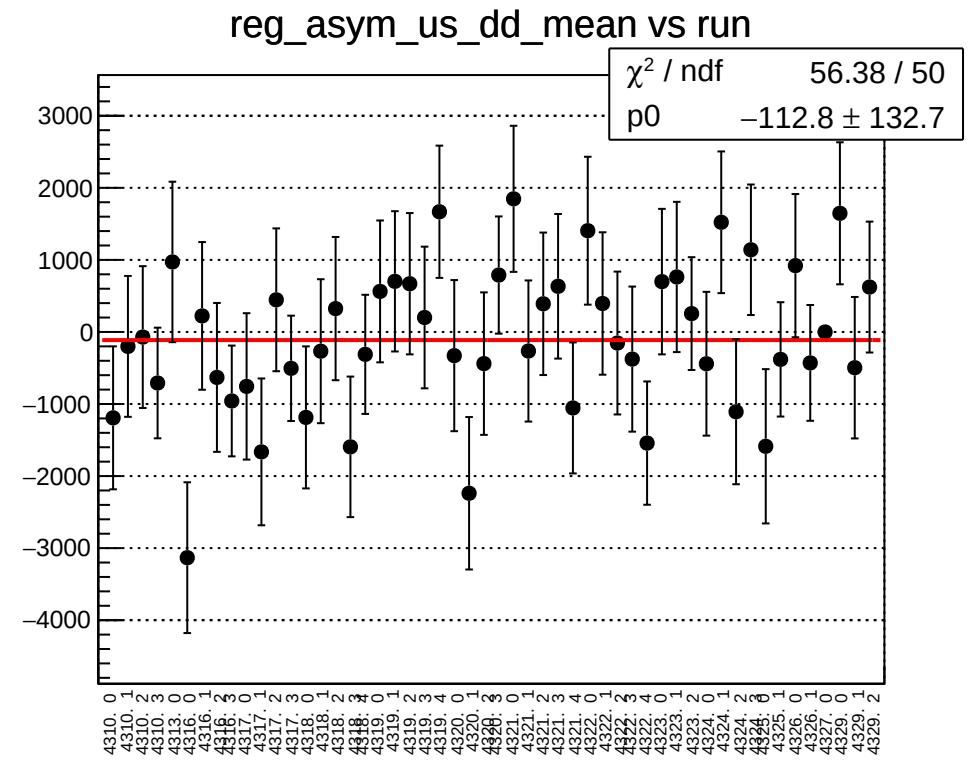

pull1D
Entries 52
Mean 0.01452
Std Dev 0.8733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

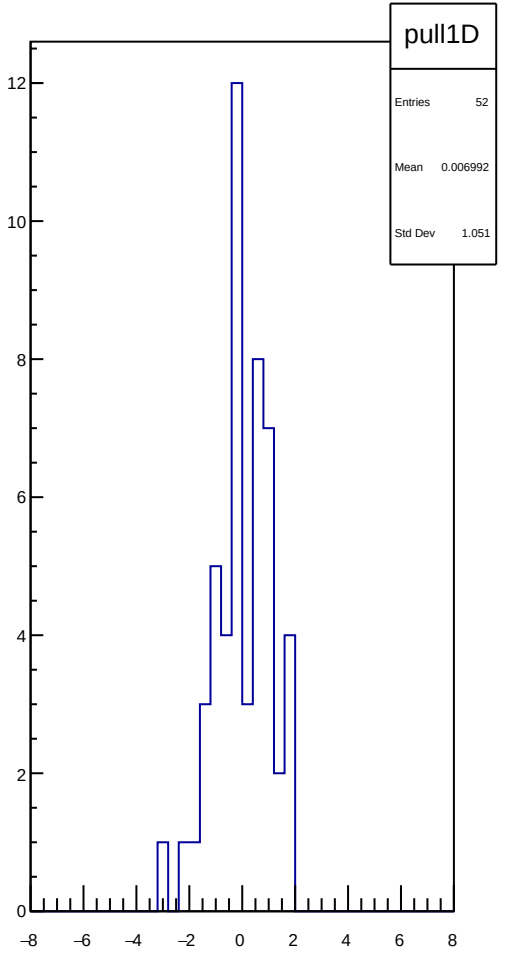

asym_us_avg_correction_rms vs run
χ² / ndf 1.371e+04 / 50
p0 292.7 ± 0.2887
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

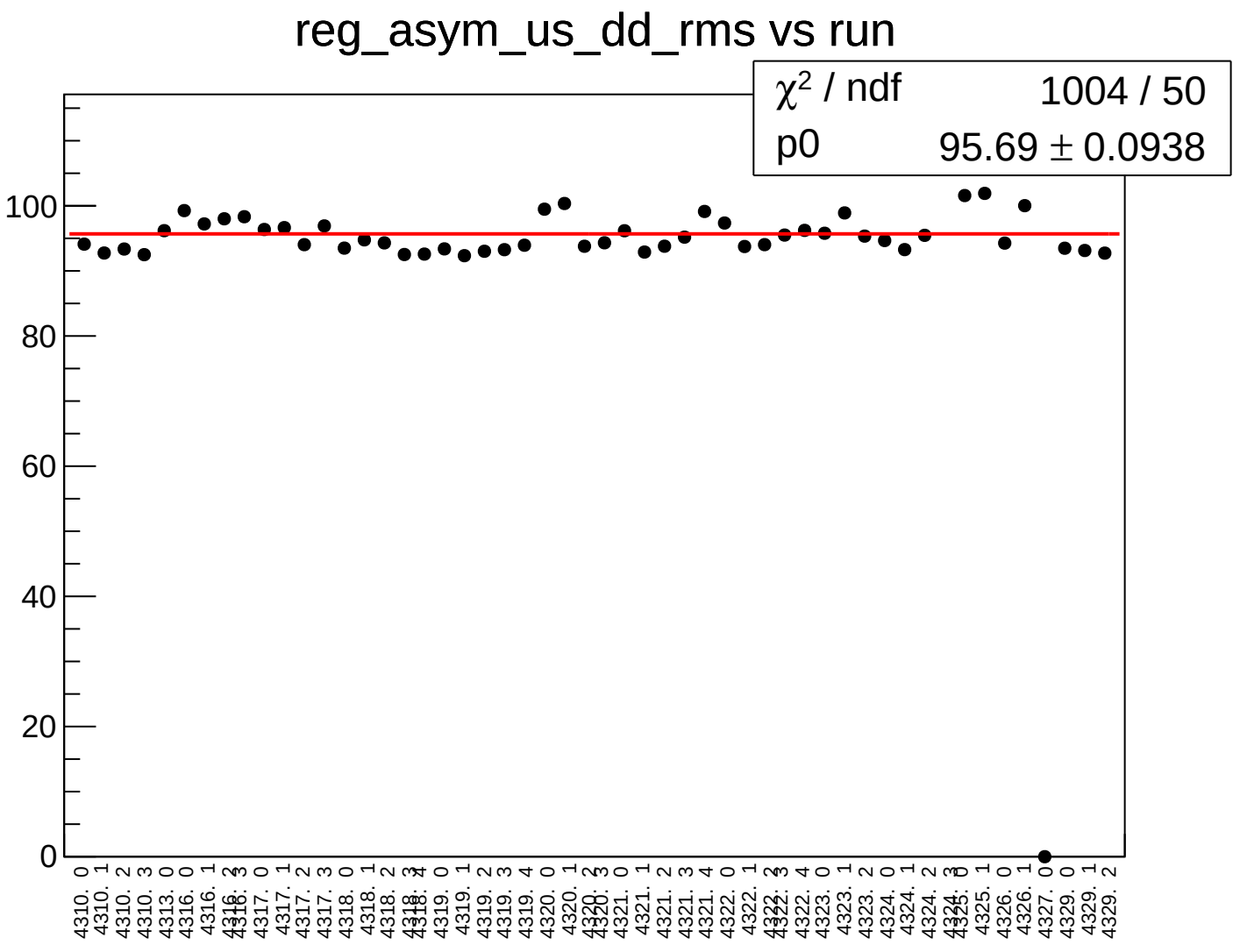

asym_us_avg_mean vs run
χ² / ndf 34.84 / 50
p0 436.6 ± 431.7
10000
5000
0
−5000
−10000

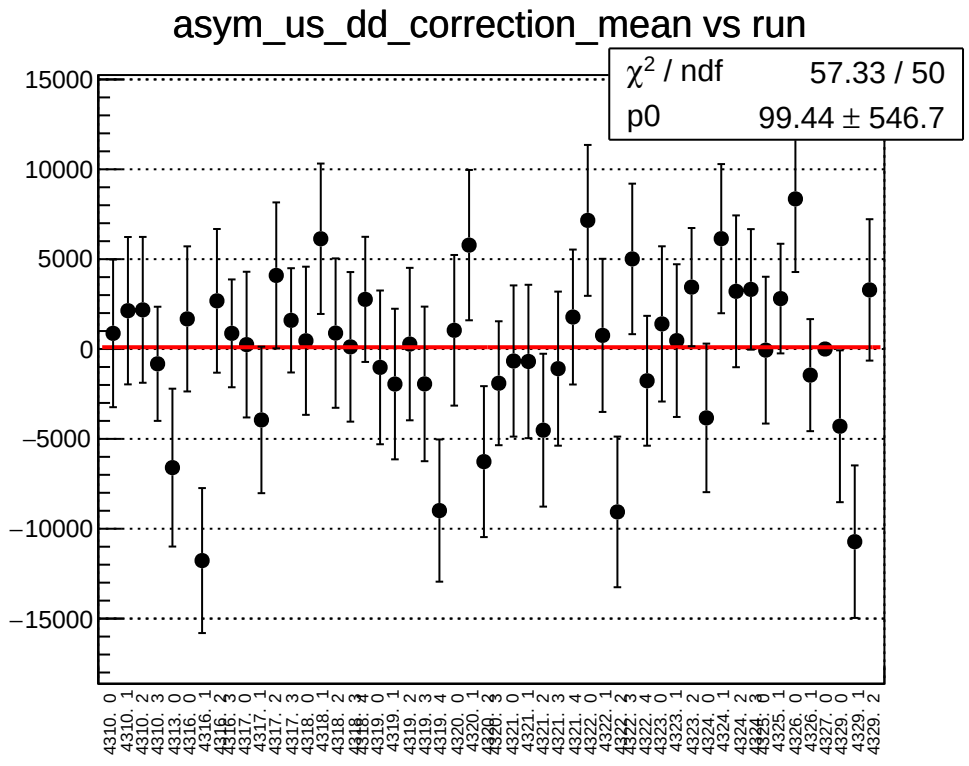

pull1D
Entries 52
Mean −0.01001
Std Dev 0.8265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

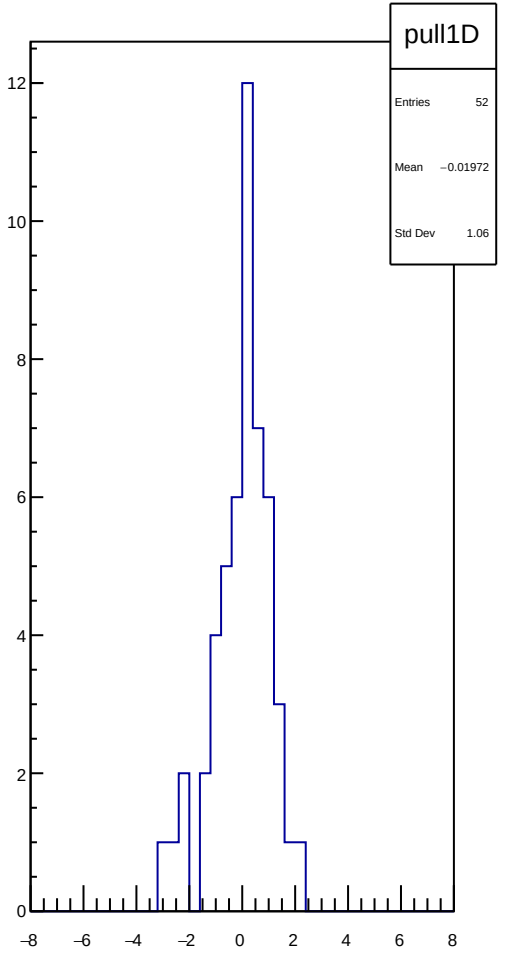

asym_us_avg_rms vs run
χ² / ndf 1.067e+04 / 50
p0 309.9 ± 0.3052
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

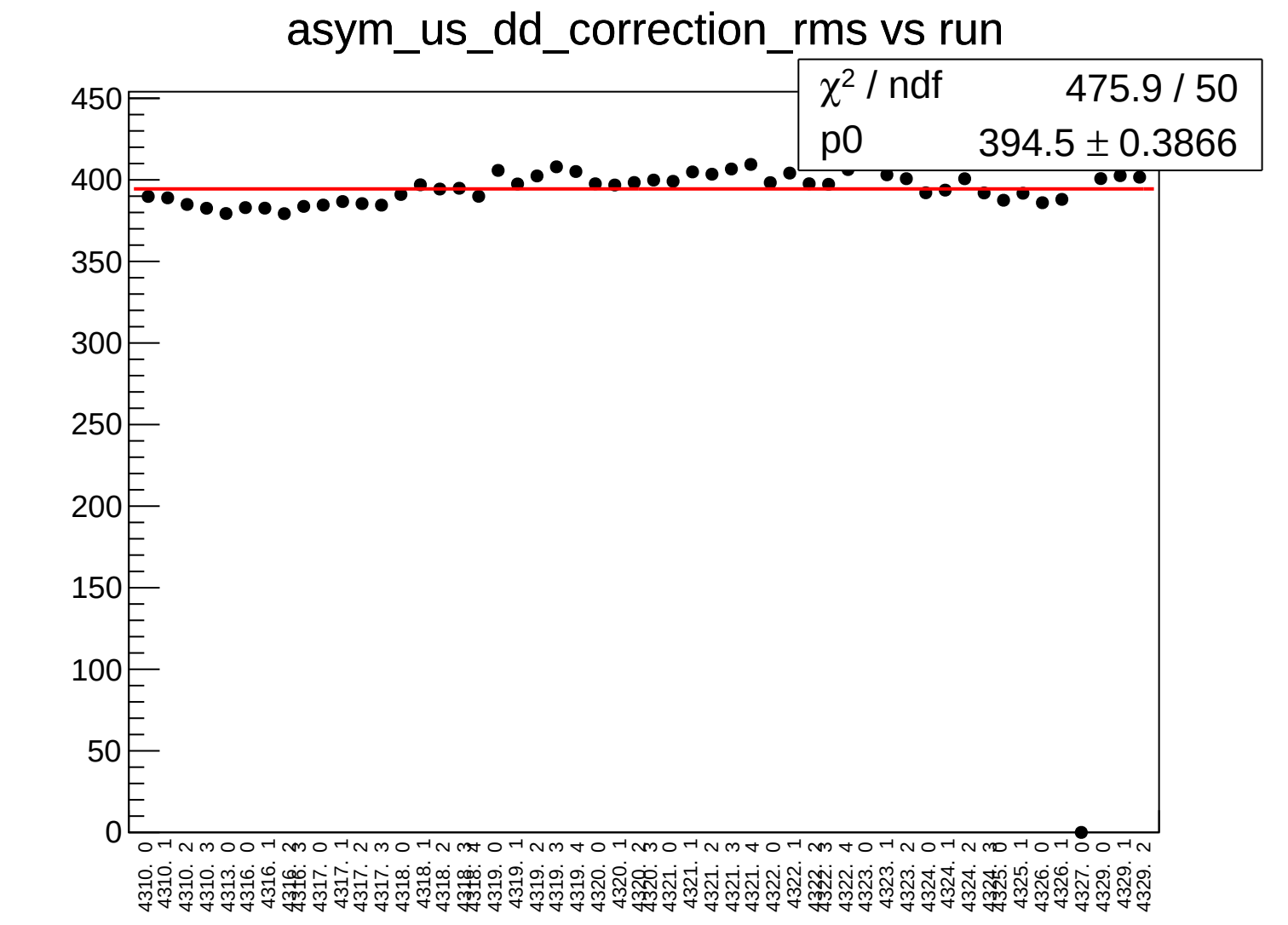

reg_asym_us_dd_mean vs run
χ² / ndf 56.38 / 50
p0 −112.8 ± 132.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

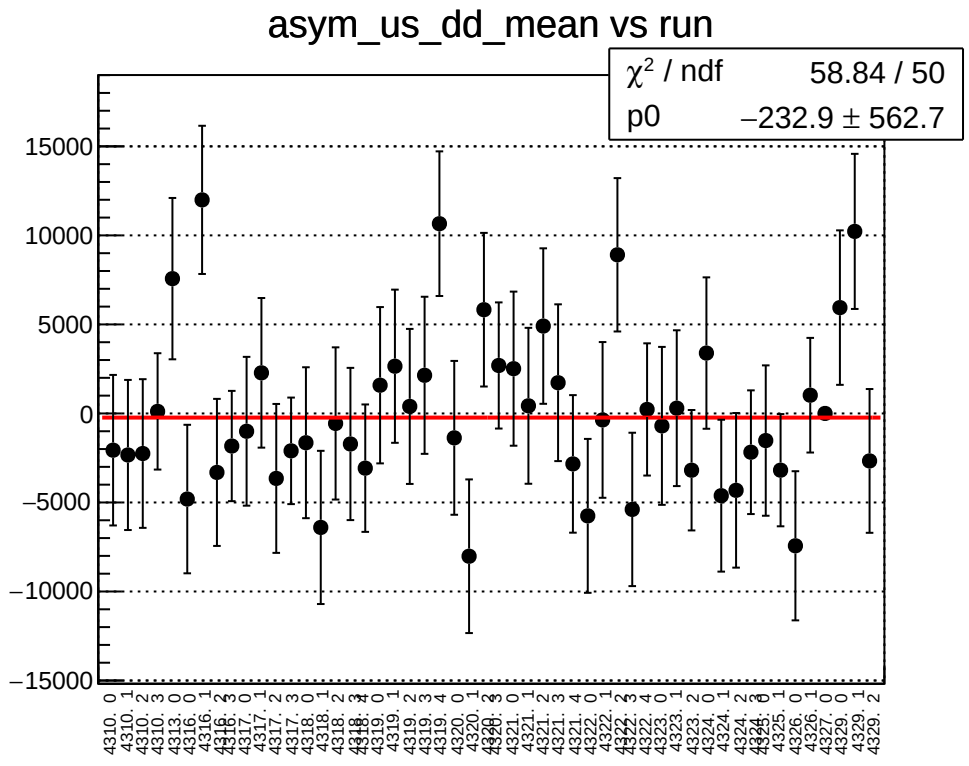

pull1D
Entries 52
Mean 0.006992
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

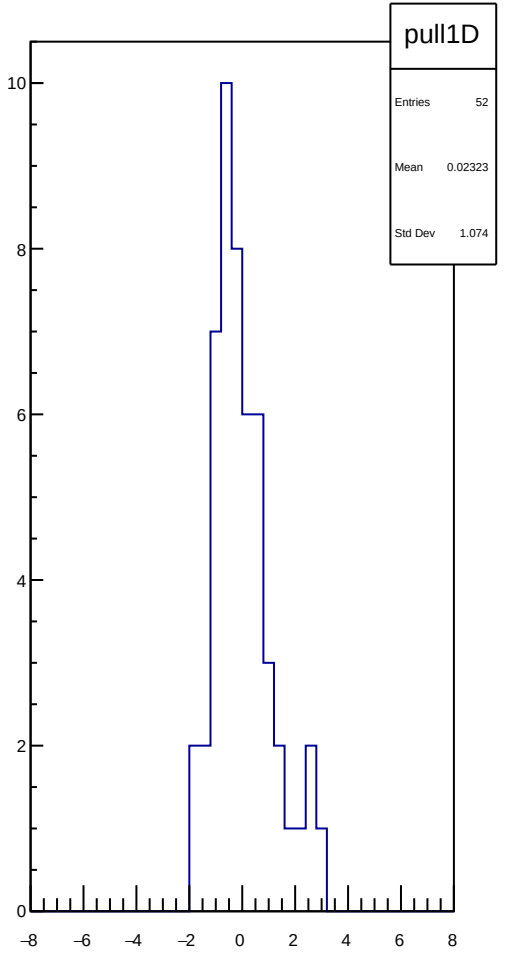

reg_asym_us_dd_rms vs run
χ² / ndf 1004 / 50
p0 95.69 ± 0.0938
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

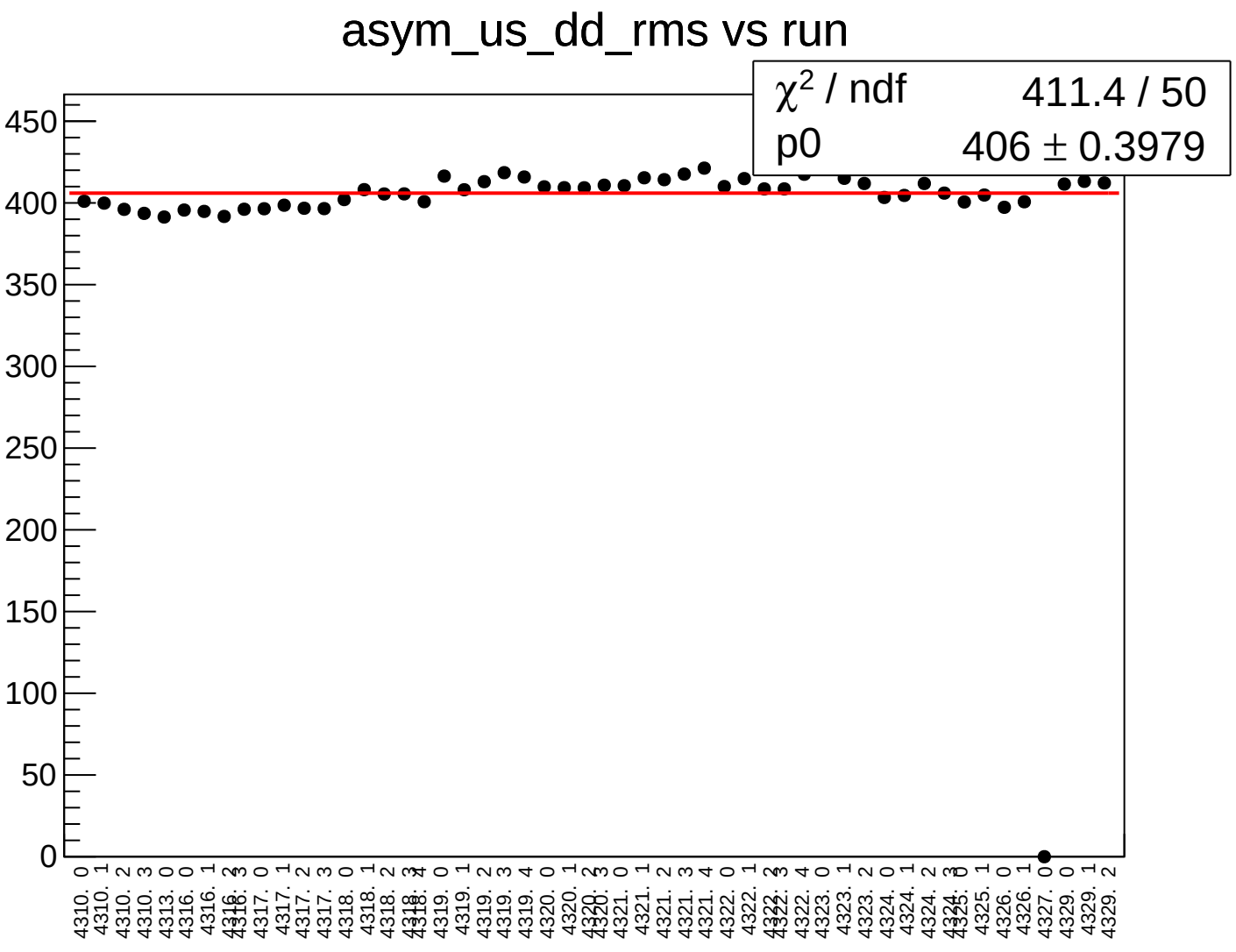

asym_us_dd_correction_mean vs run
χ² / ndf 57.33 / 50
p0 99.44 ± 546.7
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

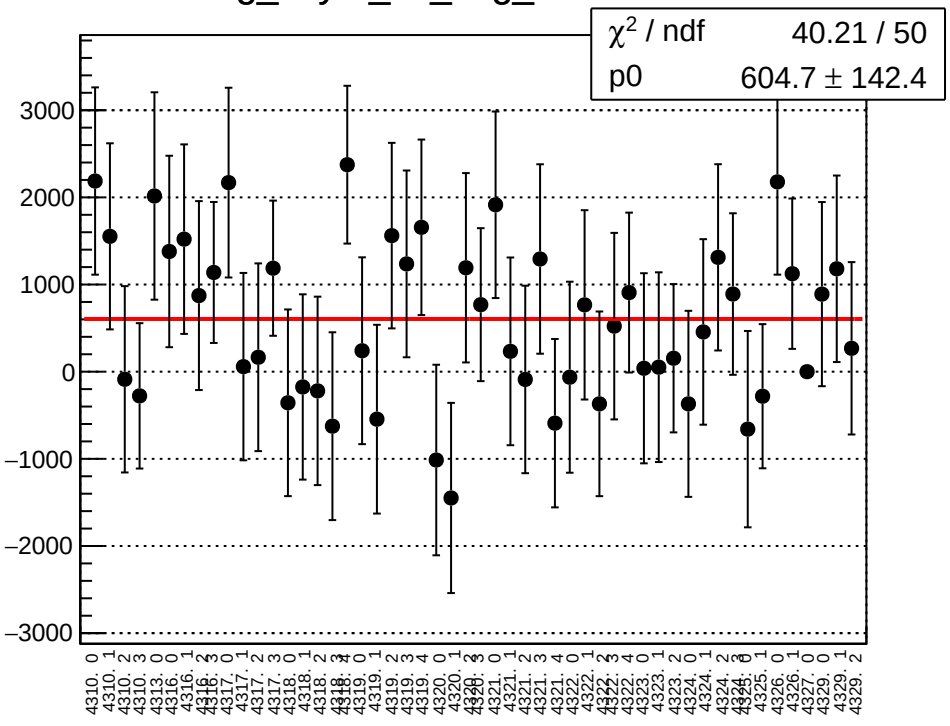

pull1D
Entries 52
Mean −0.01972
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

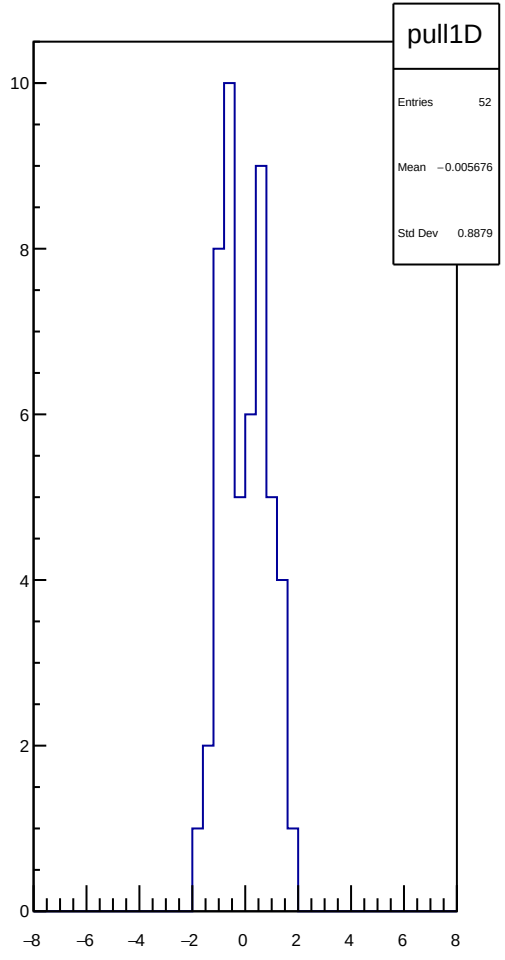

asym_us_dd_correction_rms vs run
χ² / ndf 475.9 / 50
p0 394.5 ± 0.3866
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

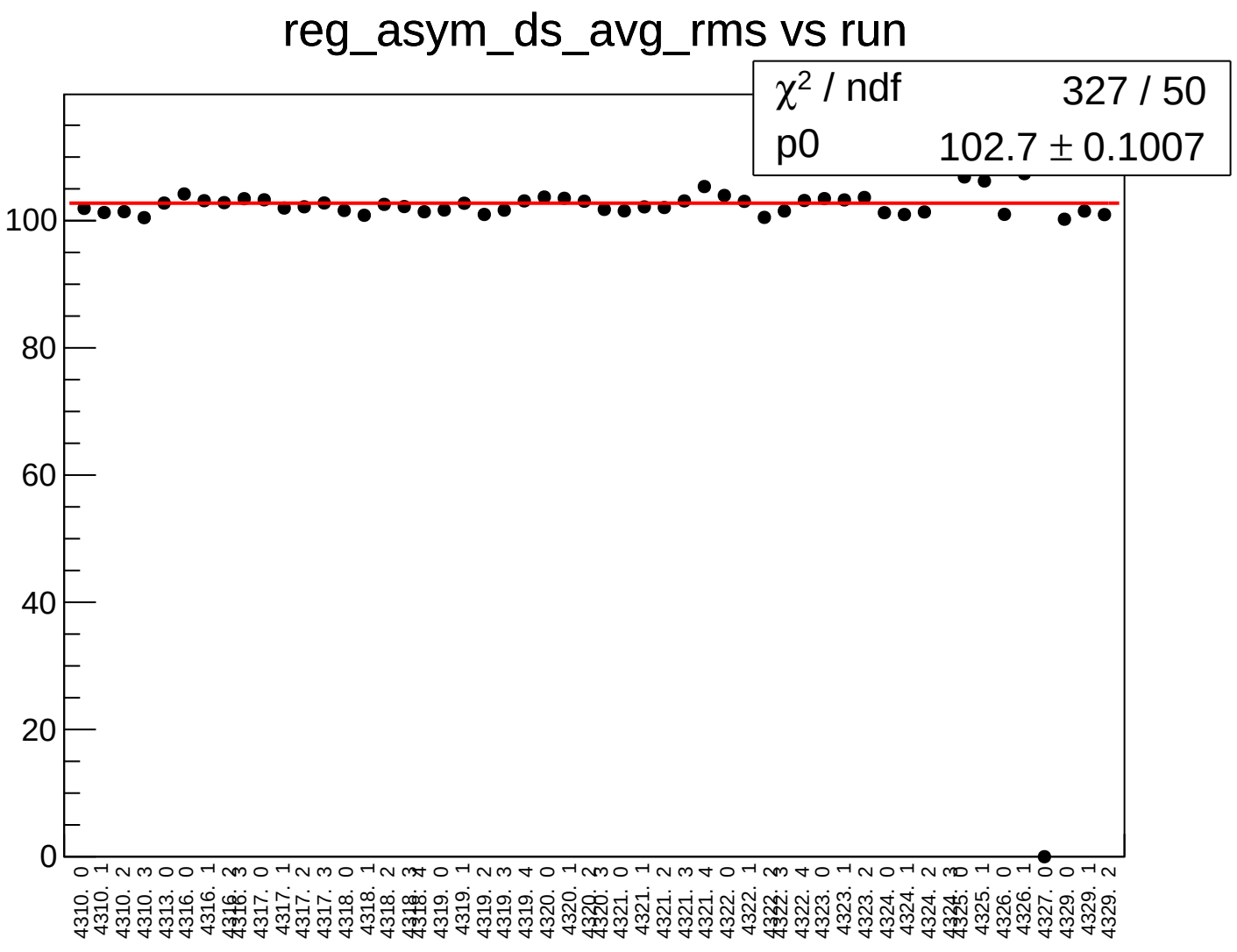

asym_us_dd_mean vs run
χ² / ndf 58.84 / 50
p0 −232.9 ± 562.7
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean 0.02323
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 411.4 / 50
p0 406 ± 0.3979
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_ds_avg_mean vs run
χ² / ndf 40.21 / 50
p0 604.7 ± 142.4
3000
2000
1000
0
−1000
−2000
−3000


pull1D
Entries 52
Mean −0.005676
Std Dev 0.8879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_rms vs run
χ² / ndf 327 / 50
p0 102.7 ± 0.1007
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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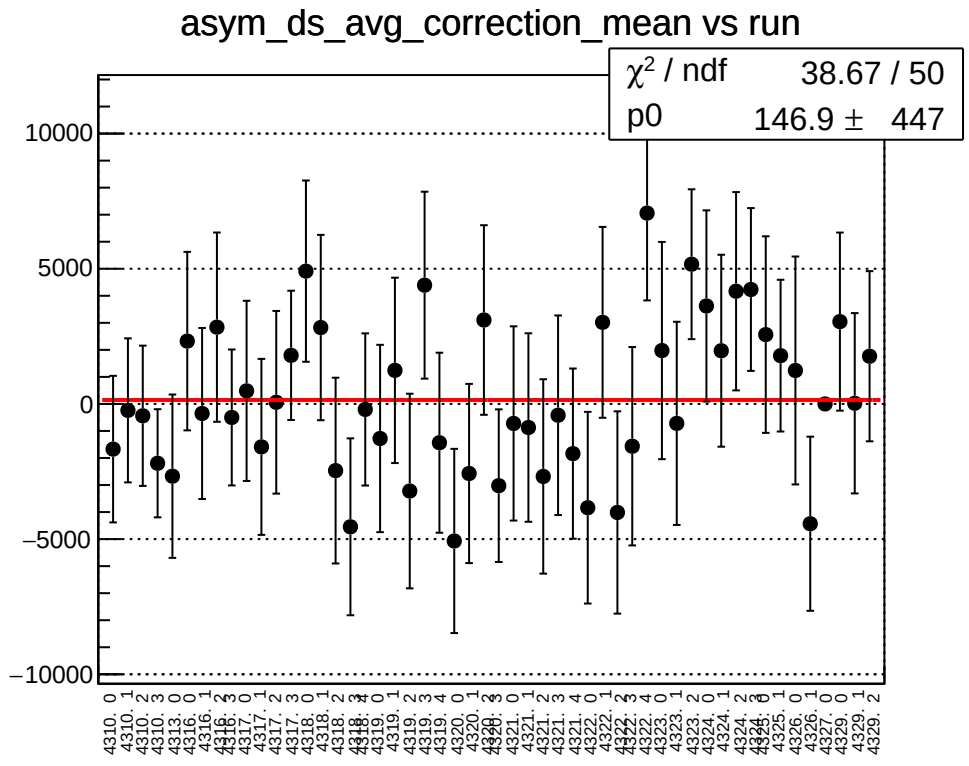
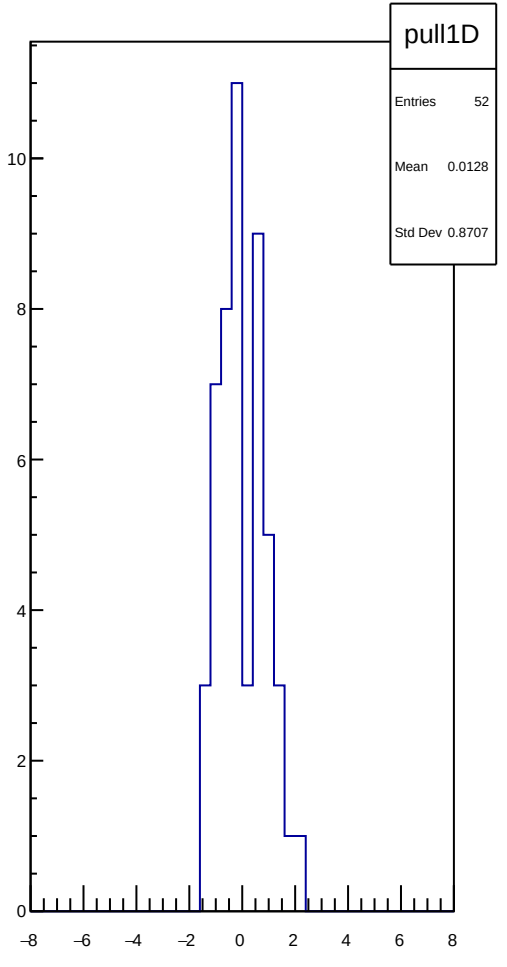
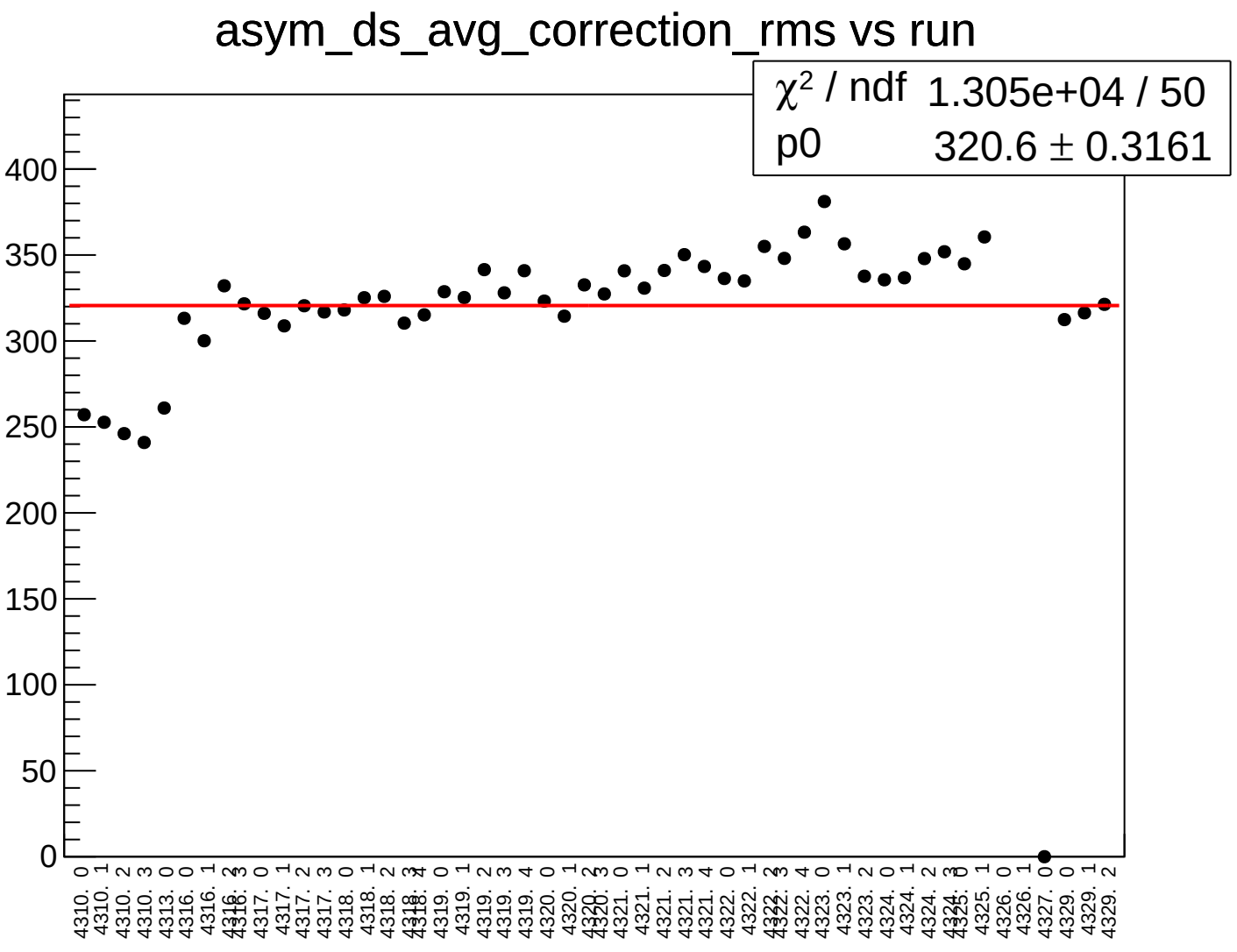
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_ds_avg_correction_mean vs run
χ² / ndf 38.67 / 50
p0 146.9 ± 447
10000
5000
0
−5000
−10000


pull1D
Entries 52
Mean 0.0128
Std Dev 0.8707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_correction_rms vs run
χ² / ndf 1.305e+04 / 50
p0 320.6 ± 0.3161
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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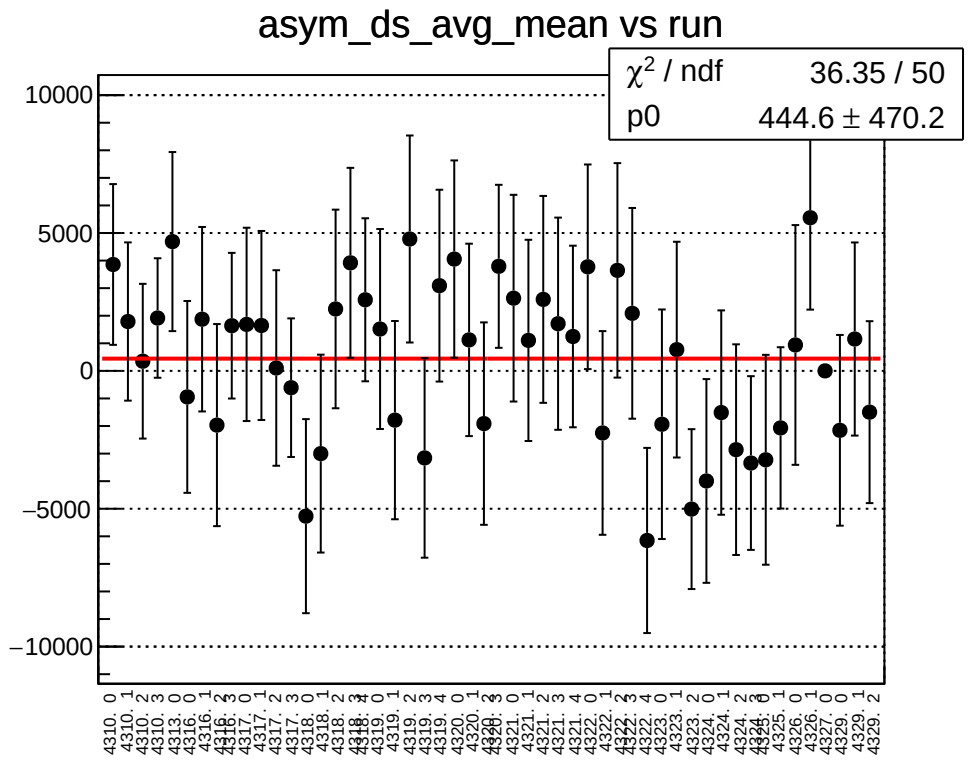
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_ds_avg_mean vs run
χ^2 / ndf 36.35 / 50
p0 444.6 ± 470.2
10000
5000
0
−5000
−10000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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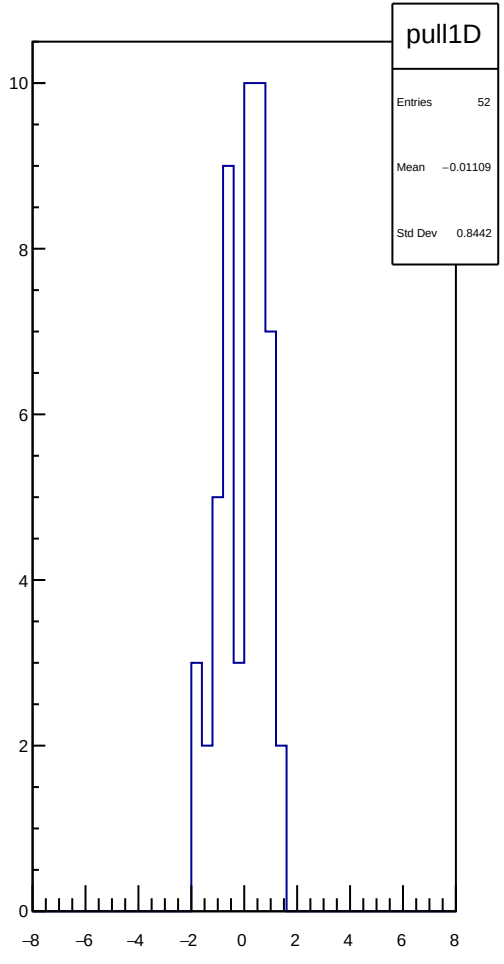
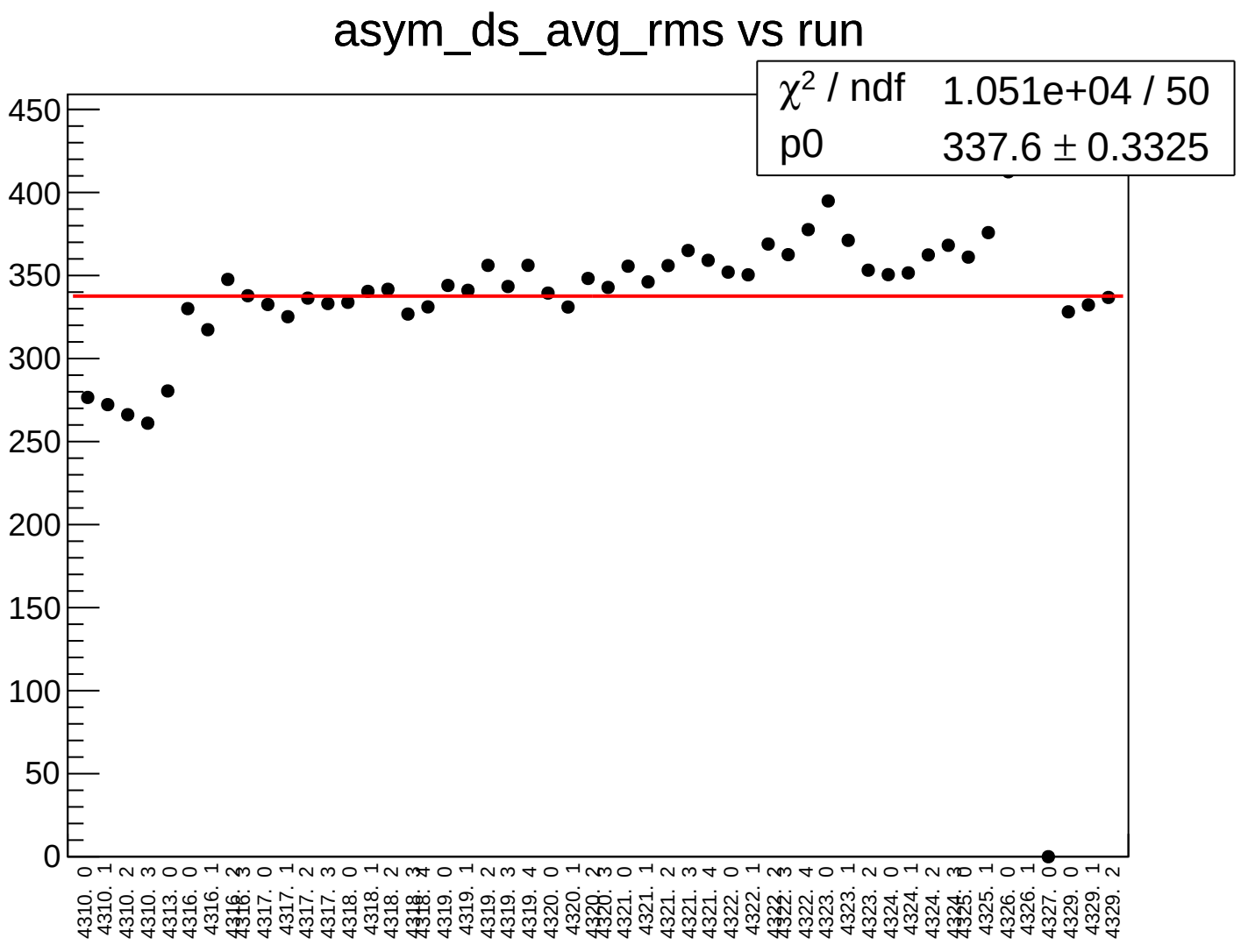
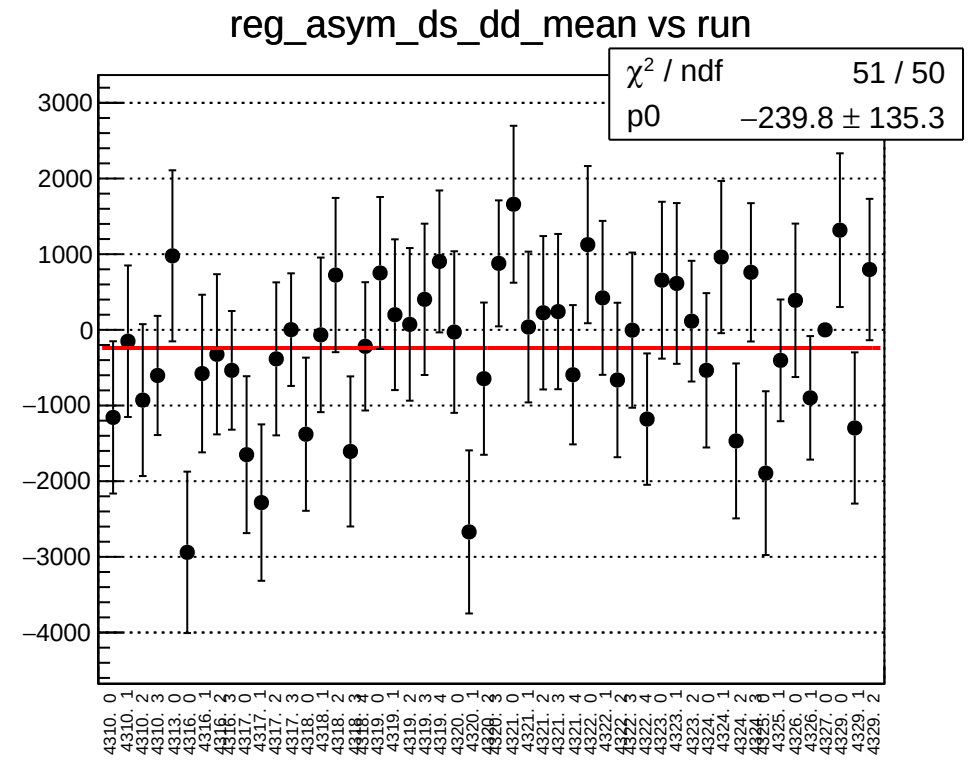
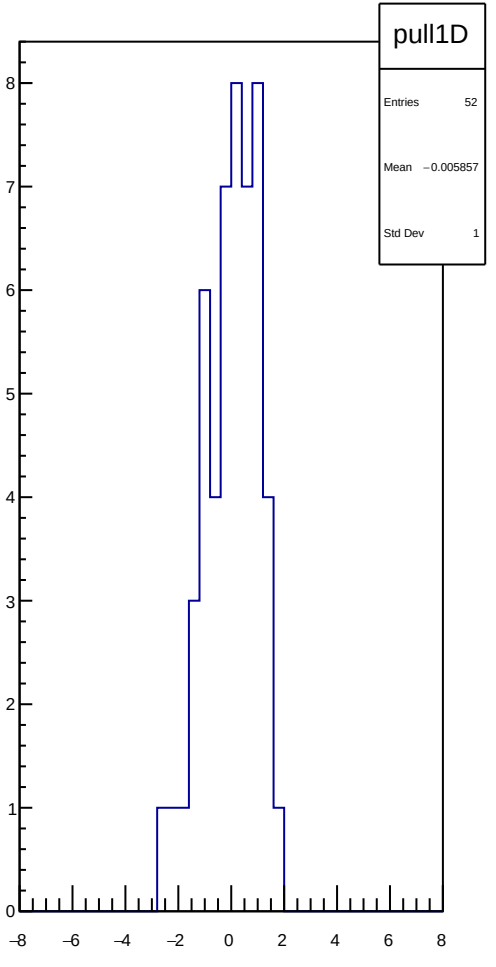
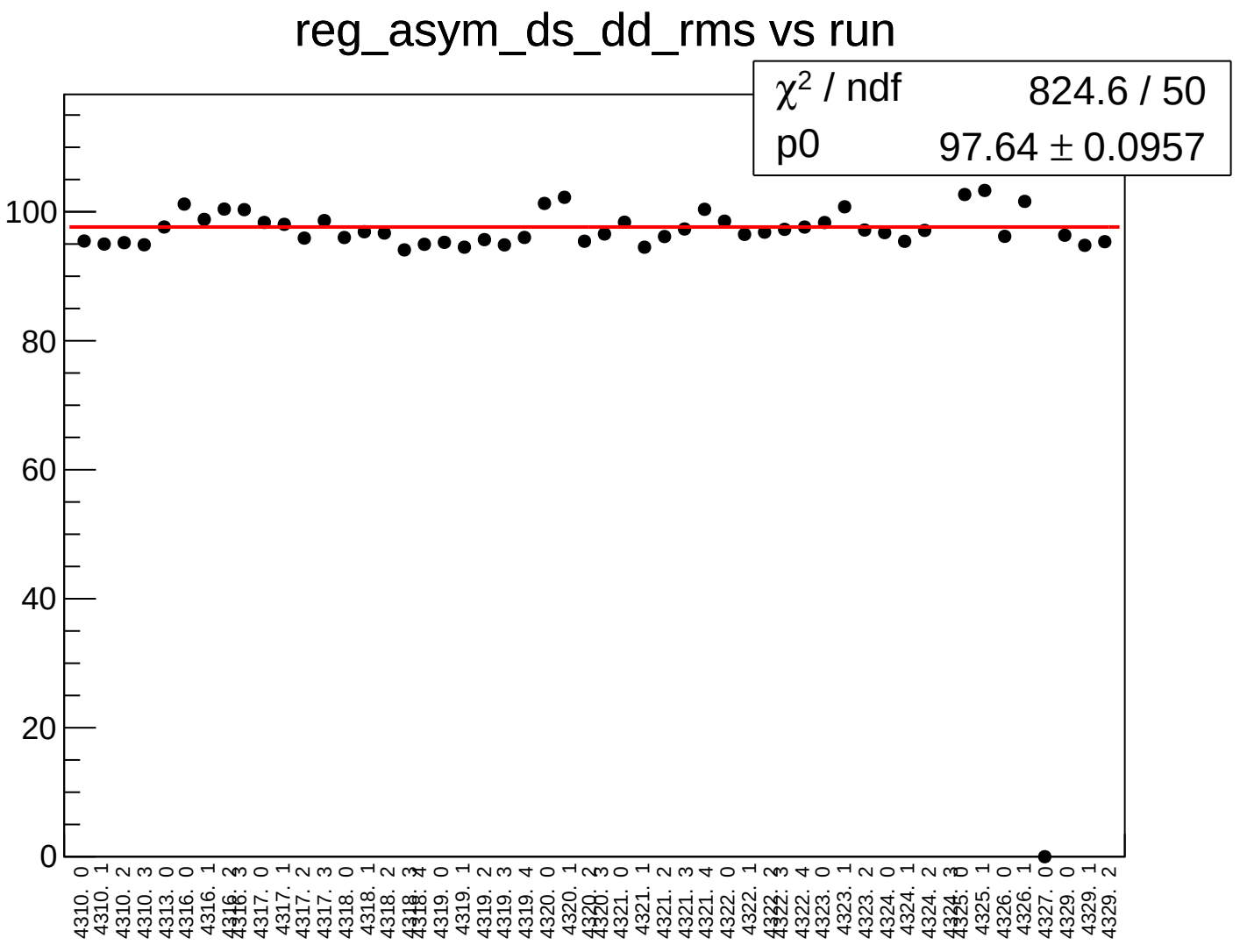
4329. 2

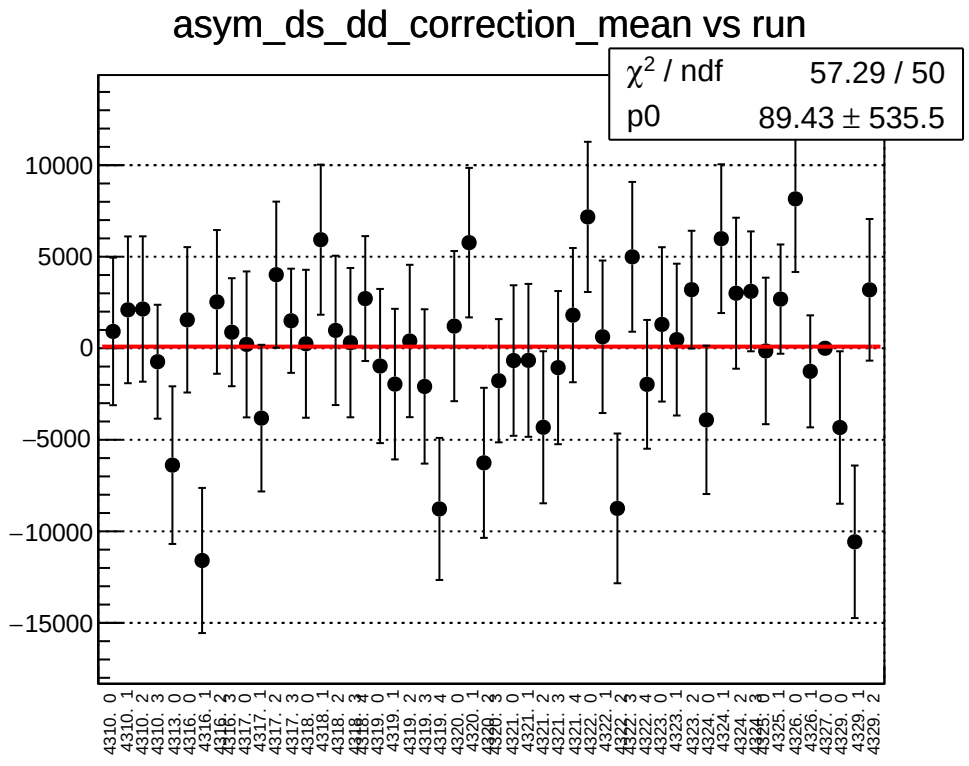

pull1D
Entries 52
Mean −0.01109
Std Dev 0.8442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

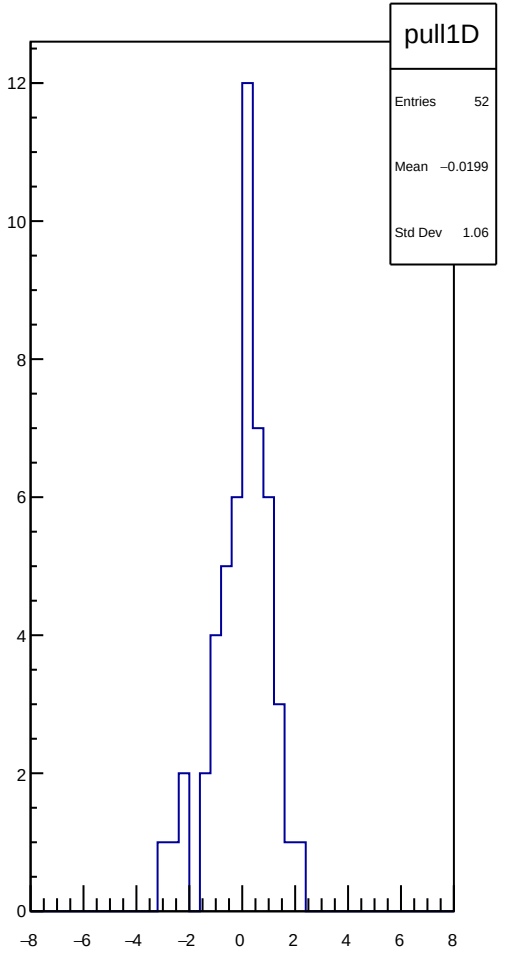

asym_ds_avg_rms vs run
χ² / ndf 1.051e+04 / 50
p0 337.6 ± 0.3325
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

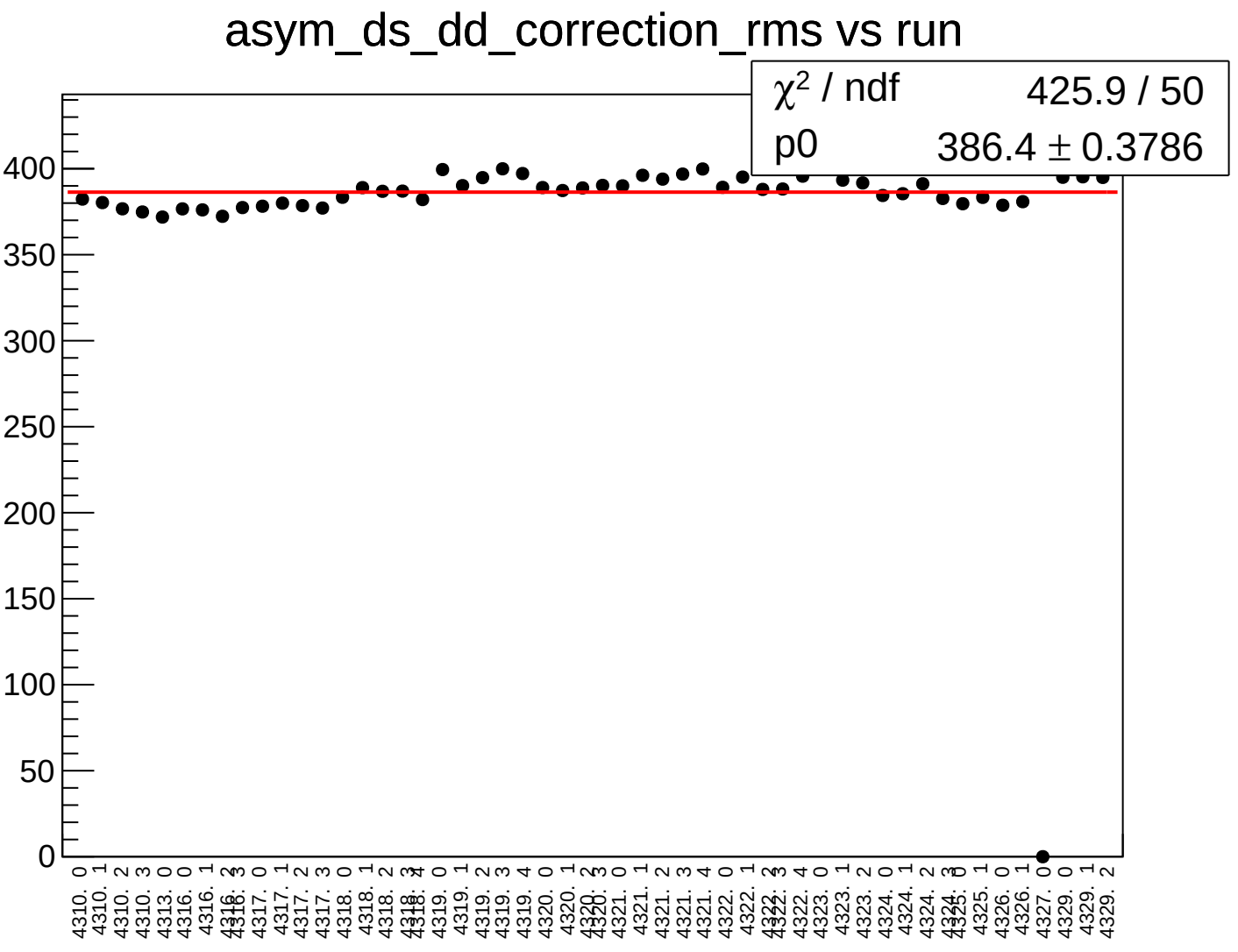

reg_asym_ds_dd_mean vs run
χ² / ndf 51 / 50
p0 −239.8 ± 135.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

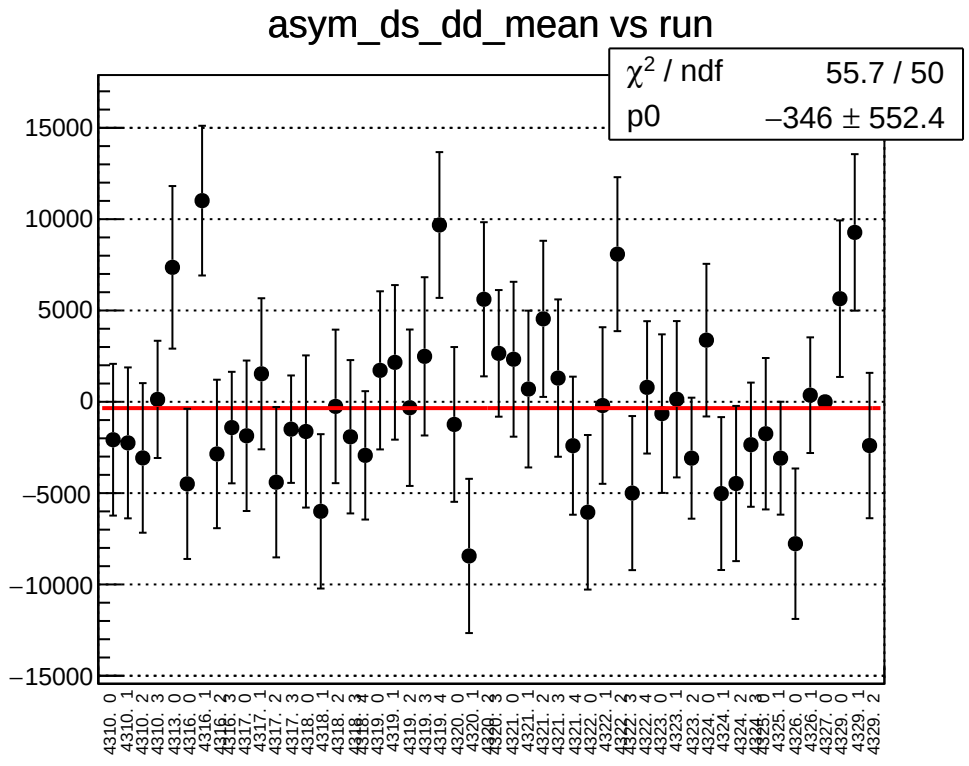

pull1D
Entries 52
Mean −0.005857
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

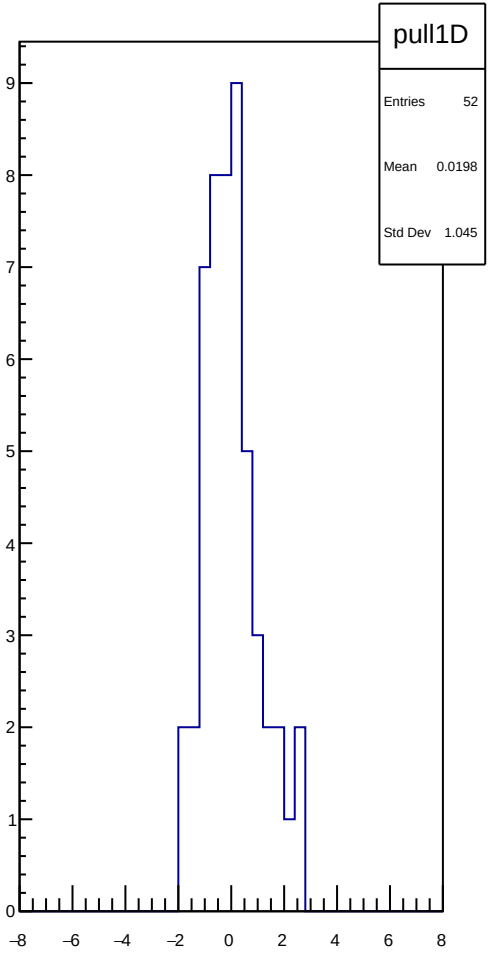

reg_asym_ds_dd_rms vs run
χ² / ndf 824.6 / 50
p0 97.64 ± 0.0957
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

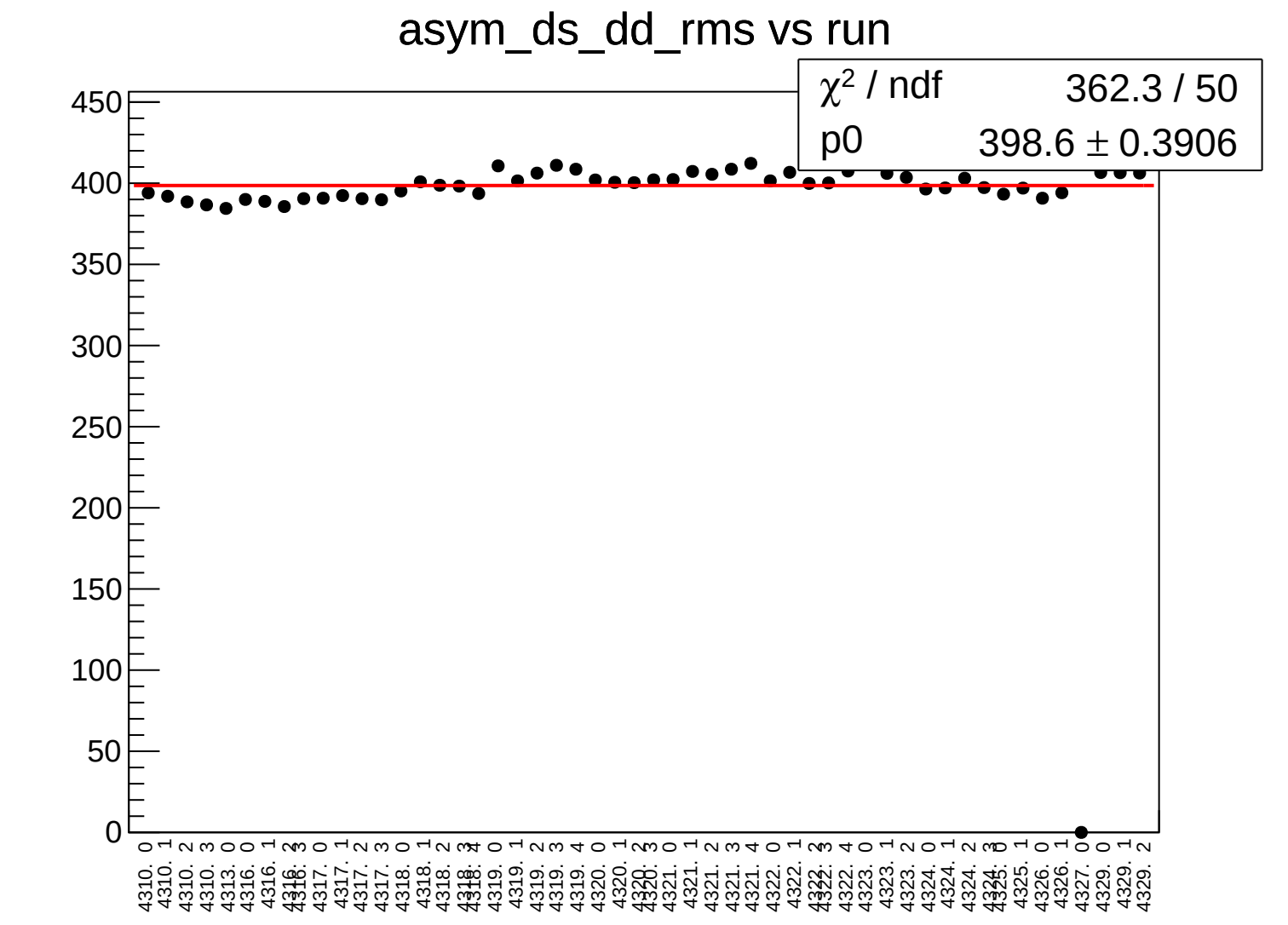

asym_ds_dd_correction_mean vs run
χ² / ndf 57.29 / 50
p0 89.43 ± 535.5
10000
5000
0
−5000
−10000
−15000

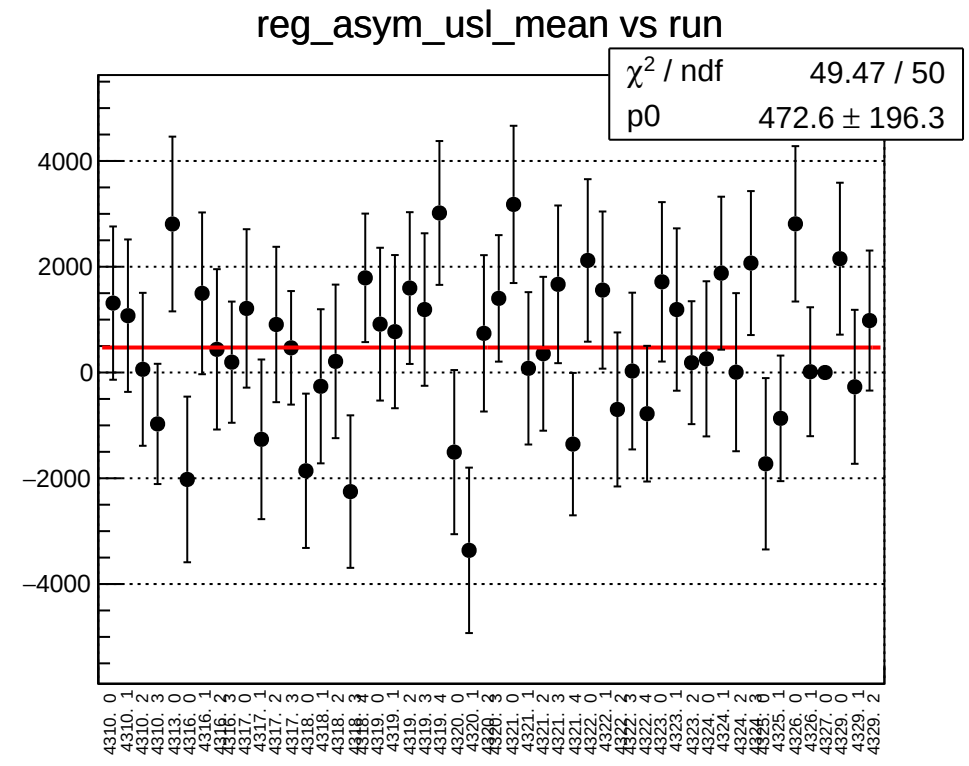

pull1D
Entries 52
Mean −0.0199
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

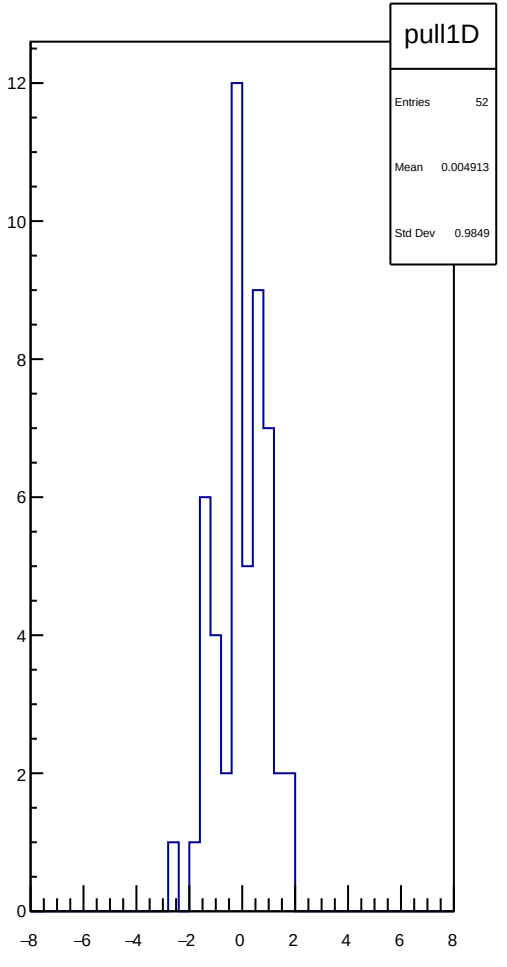

asym_ds_dd_correction_rms vs run
χ² / ndf 425.9 / 50
p0 386.4 ± 0.3786
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_ds_dd_mean vs run
χ² / ndf 55.7 / 50
p0 −346 ± 552.4
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean 0.0198
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ² / ndf 362.3 / 50
p0 398.6 ± 0.3906
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_usl_mean vs run
χ² / ndf 49.47 / 50
p0 472.6 ± 196.3
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.004913
Std Dev 0.9849
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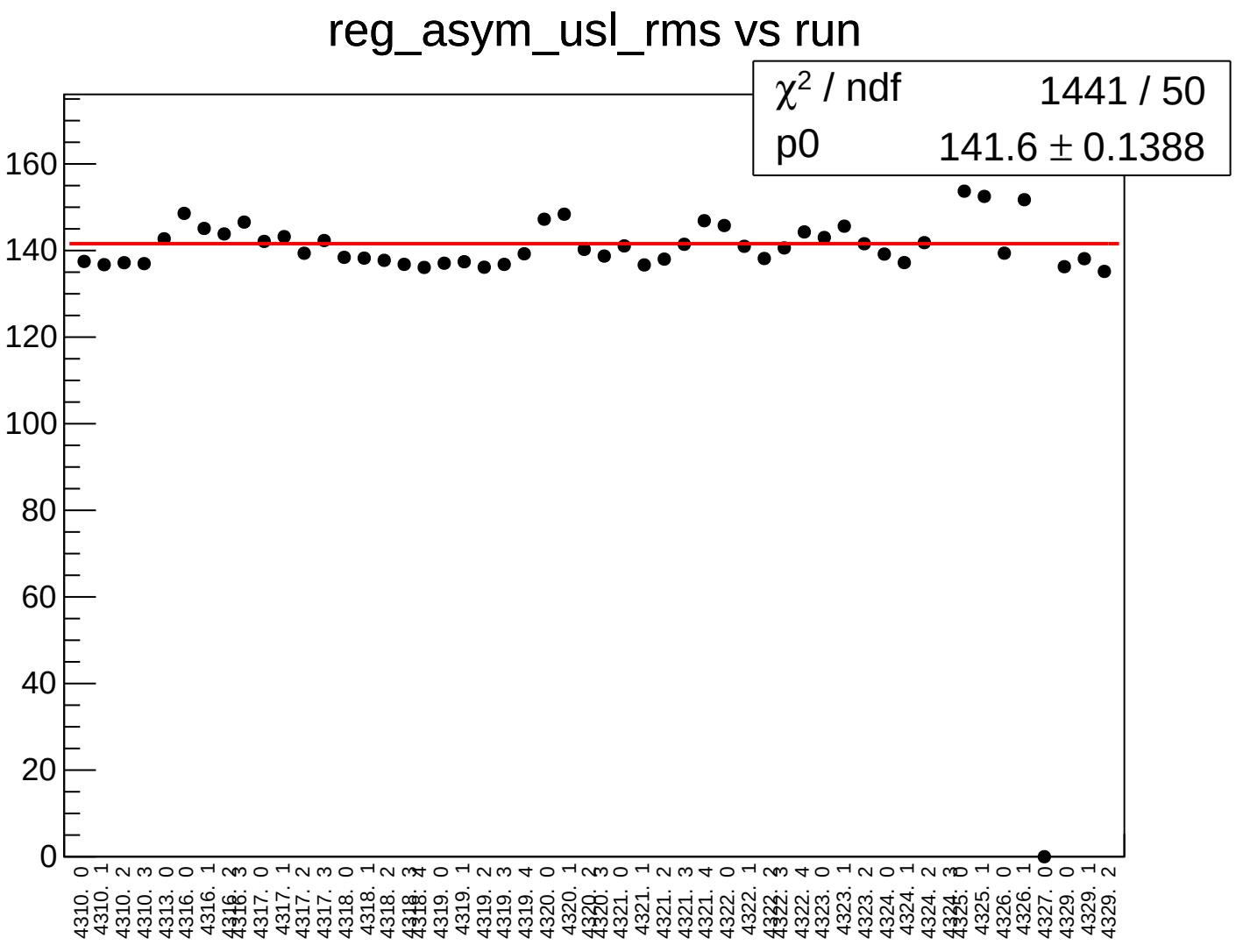
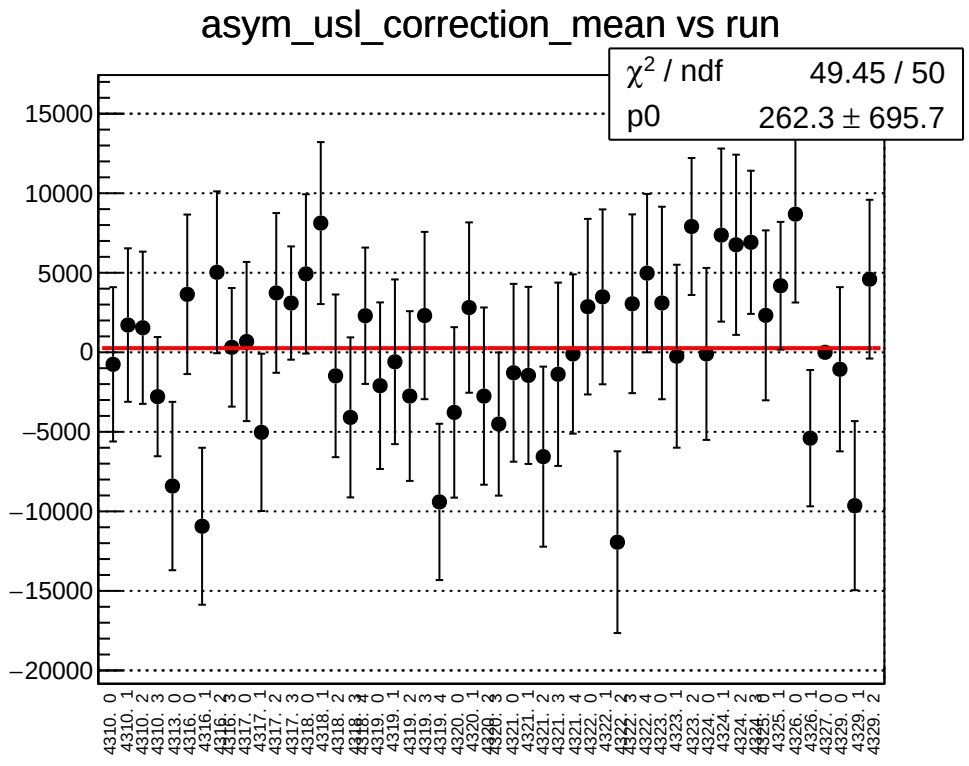
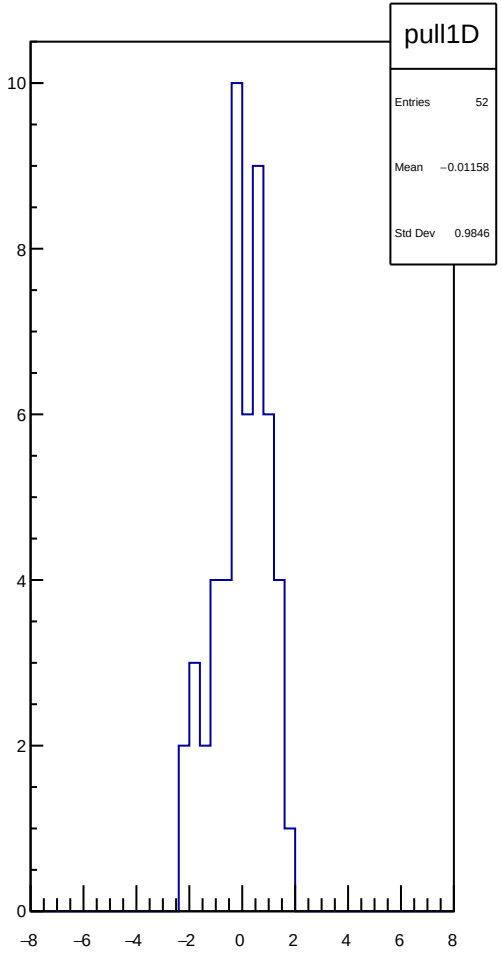
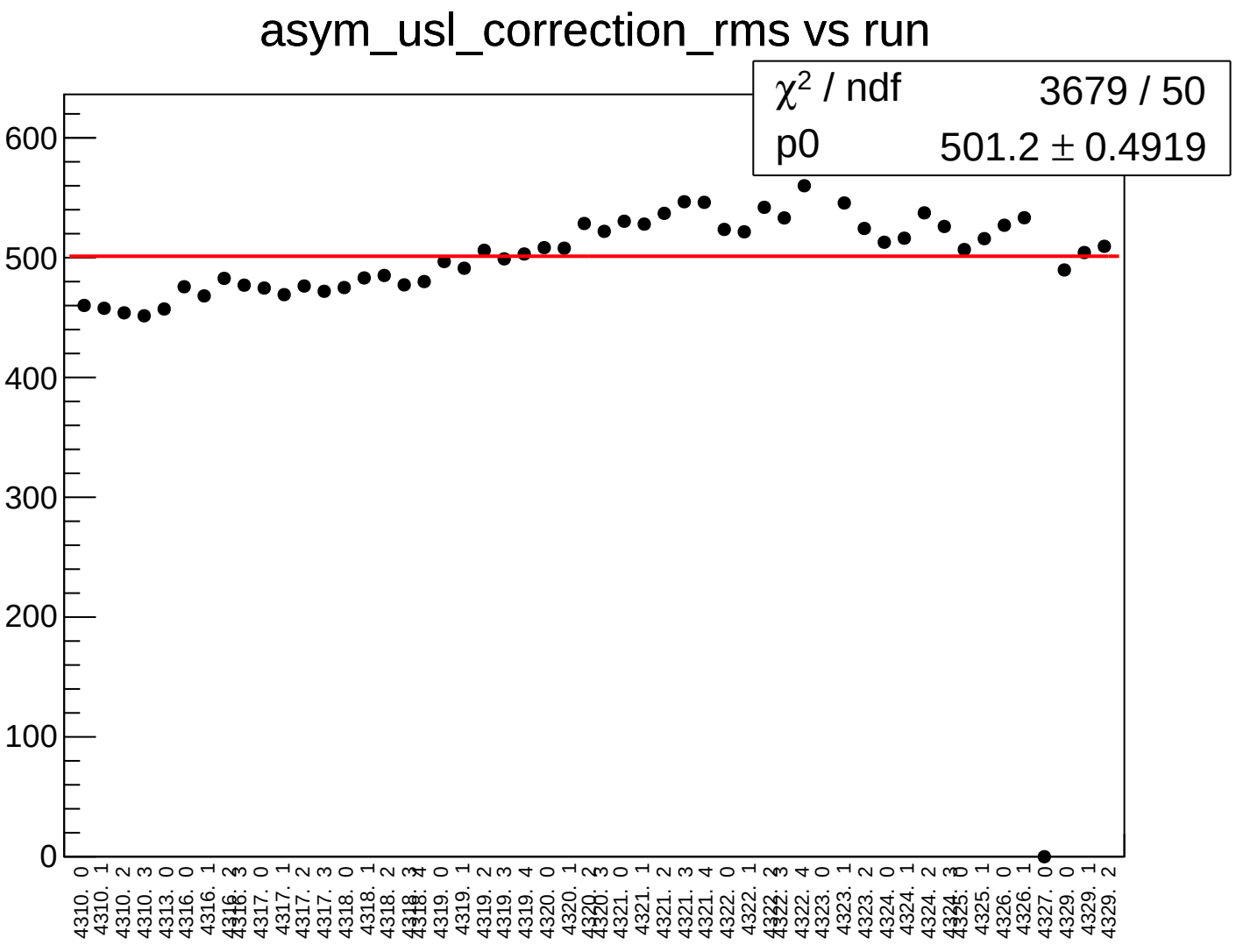
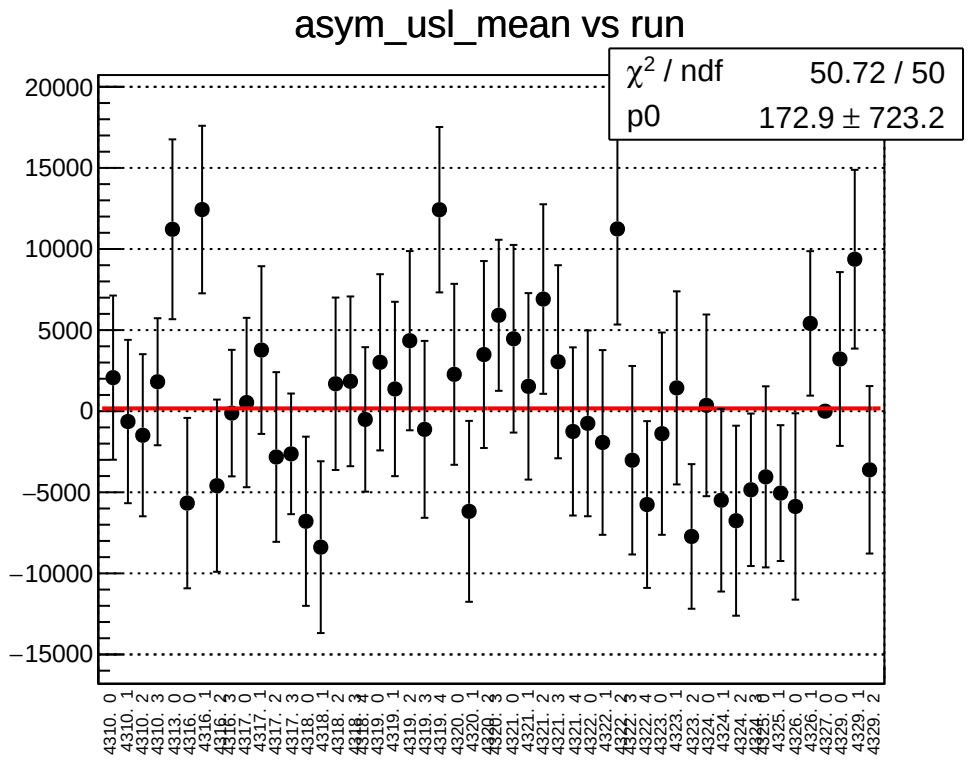
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 1441 / 50
p0 141.6 ± 0.1388
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_usl_correction_mean vs run
χ² / ndf 49.45 / 50
p0 262.3 ± 695.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01158
Std Dev 0.9846
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 3679 / 50
p0 501.2 ± 0.4919
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_usl_mean vs run
χ² / ndf 50.72 / 50
p0 172.9 ± 723.2
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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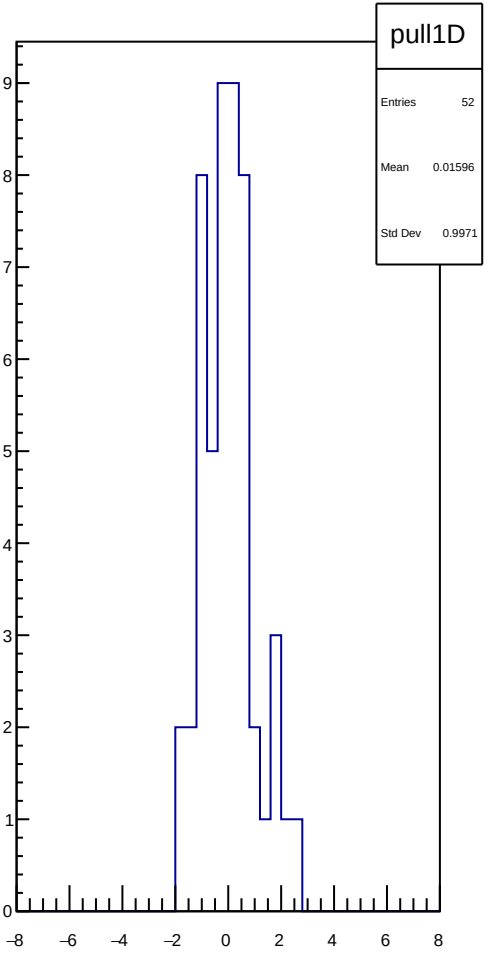
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.01596
Std Dev 0.9971
9
8
7
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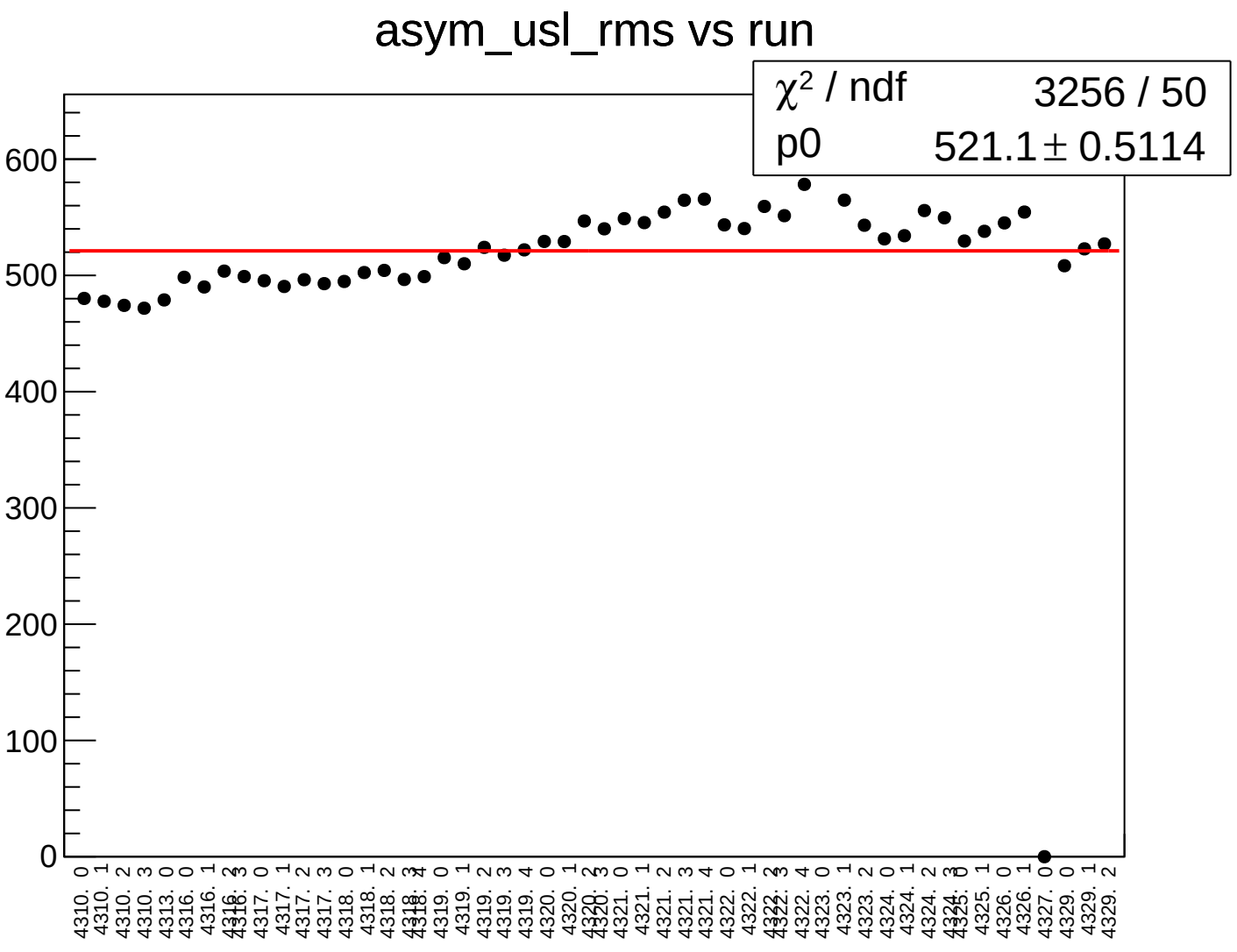
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 3256 / 50
p0 521.1 ± 0.5114
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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4326. 1
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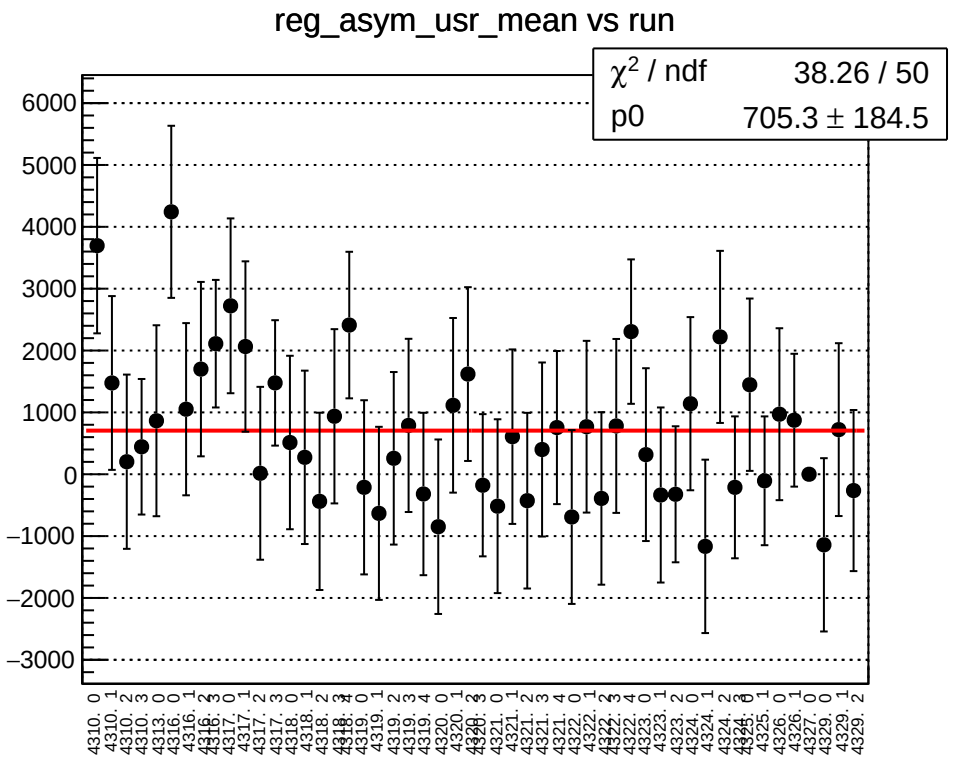
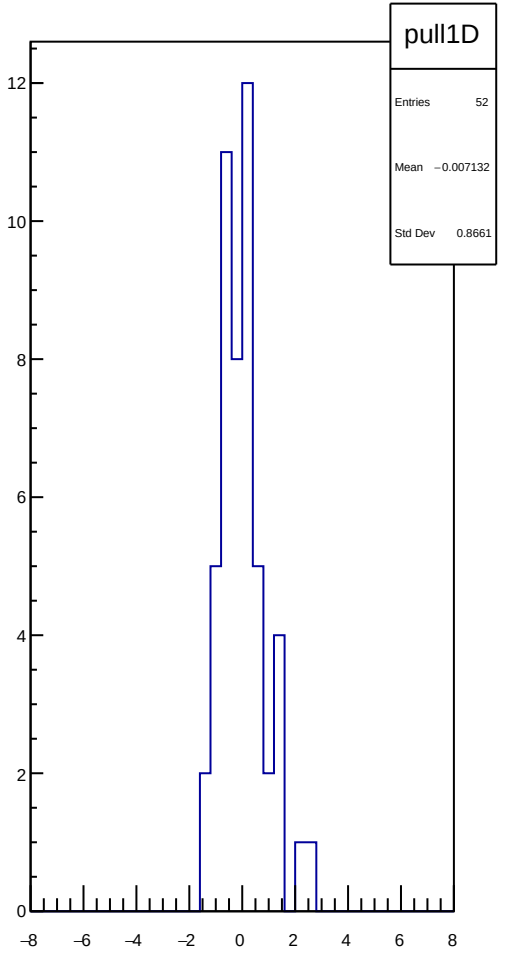
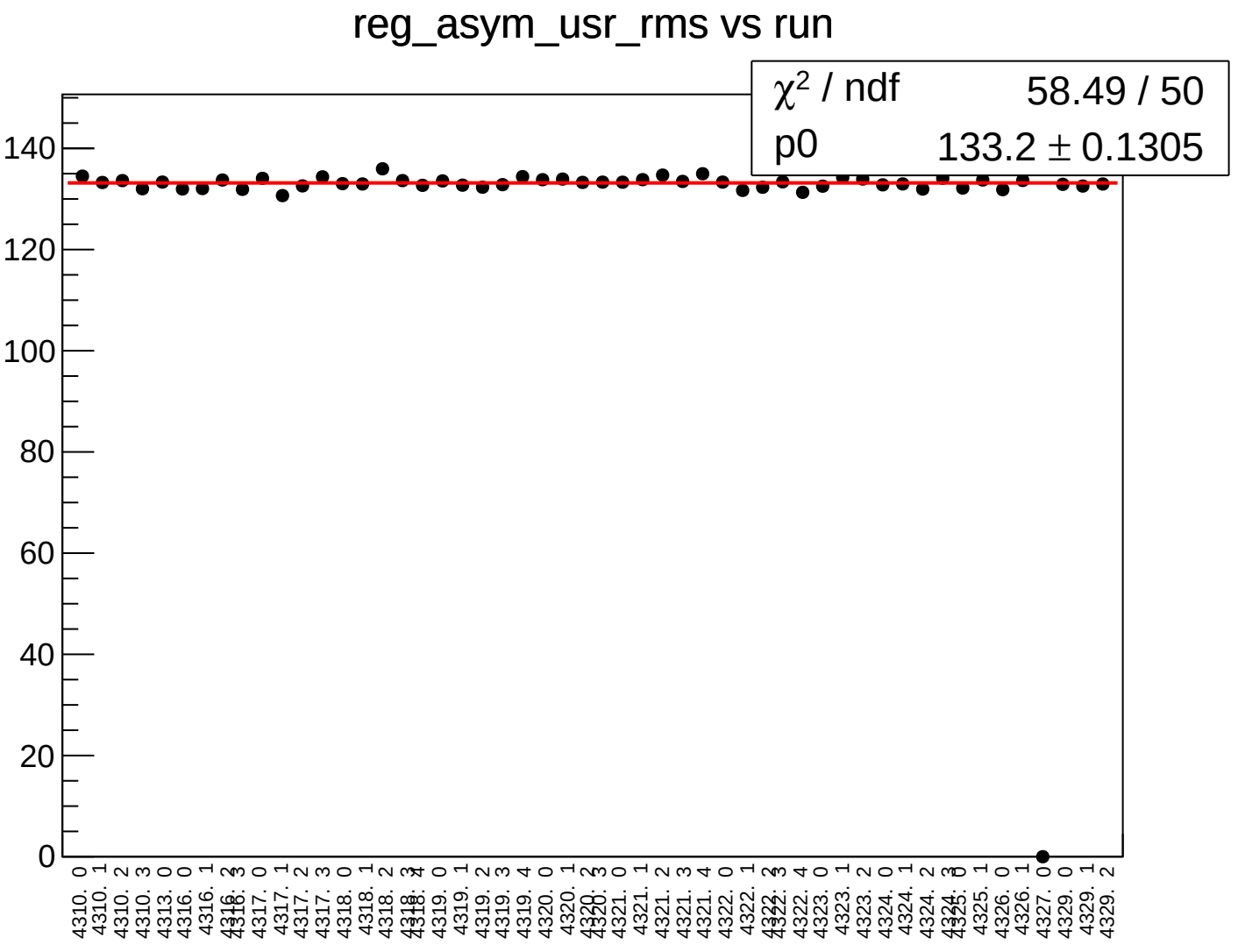
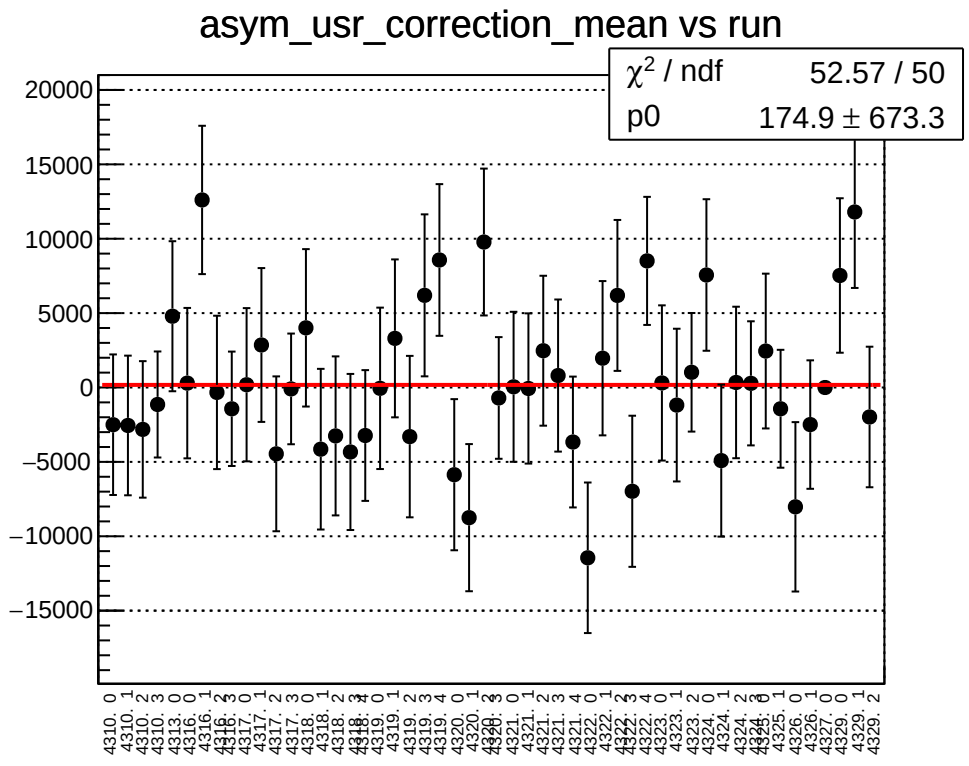
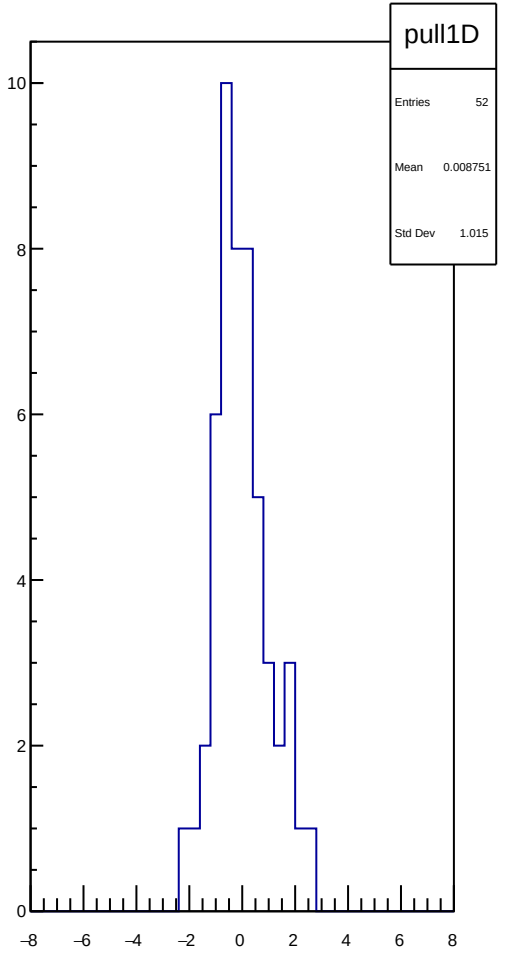
4329. 1
4329. 2

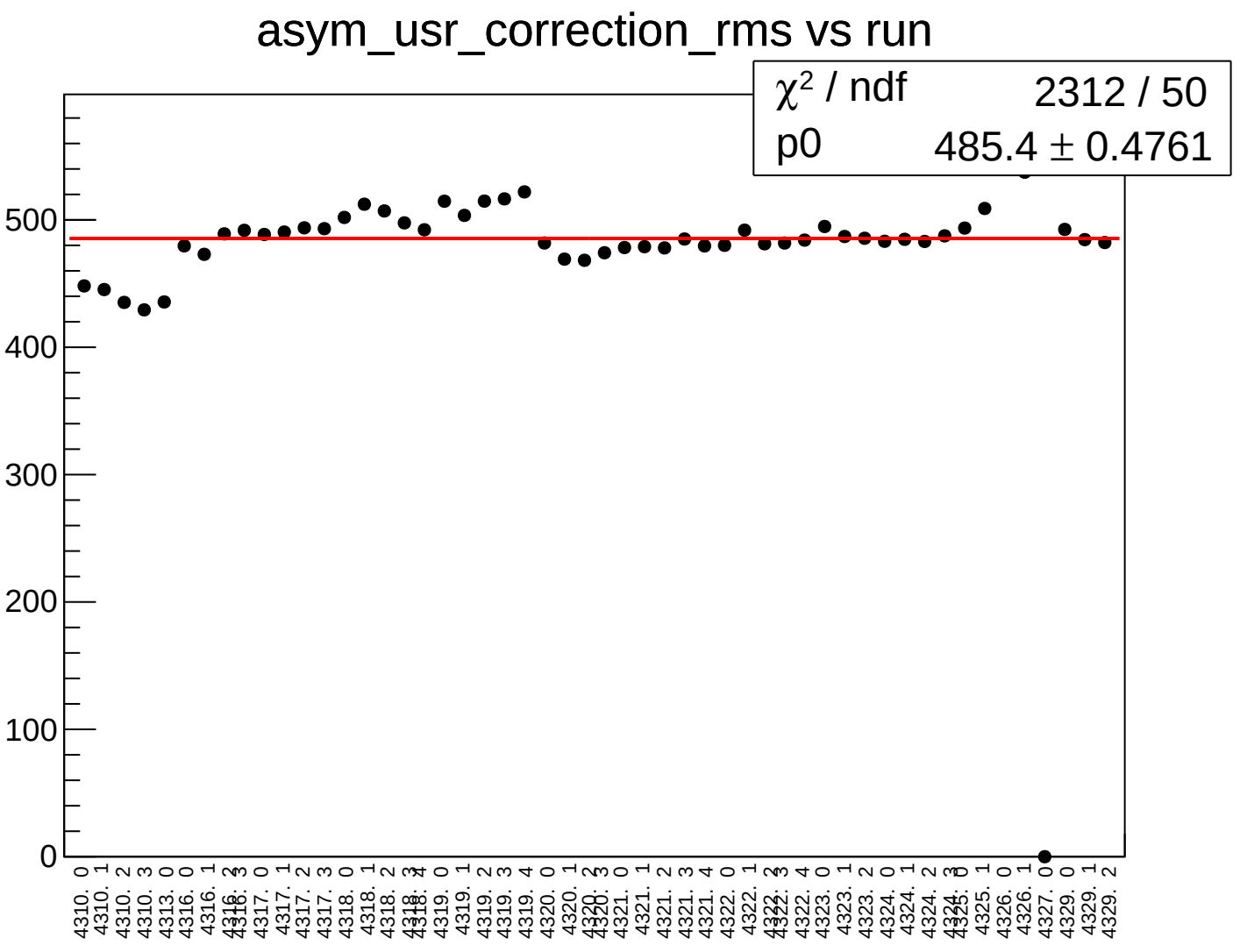

reg_asym_usr_mean vs run
χ² / ndf 38.26 / 50
p0 705.3 ± 184.5
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

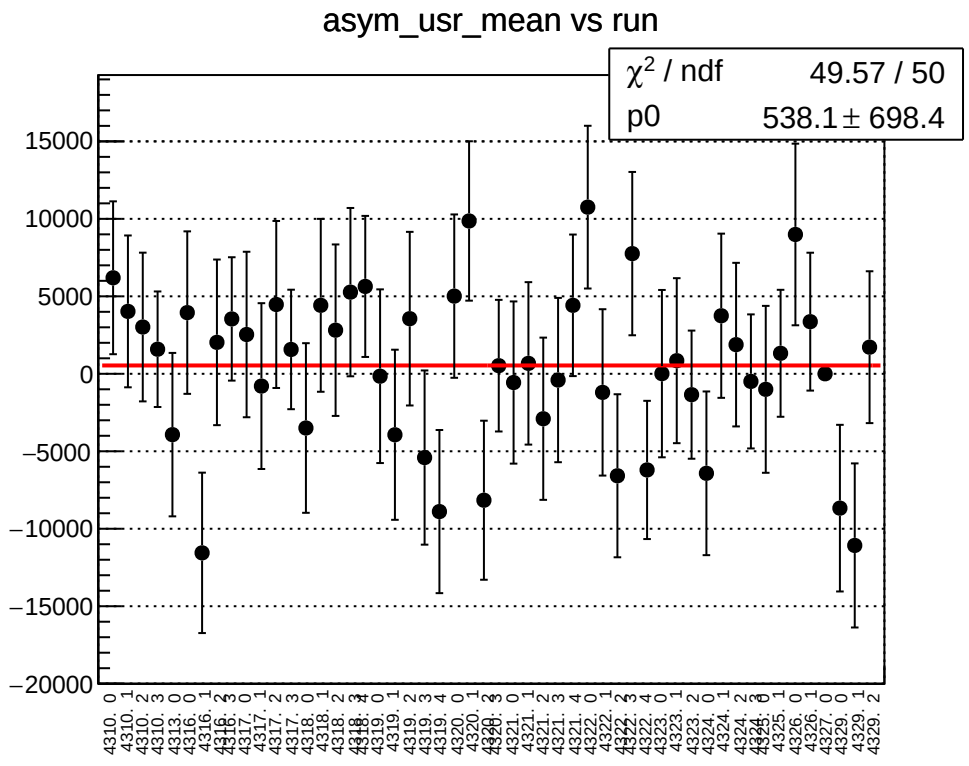

pull1D
Entries 52
Mean −0.007132
Std Dev 0.8661
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

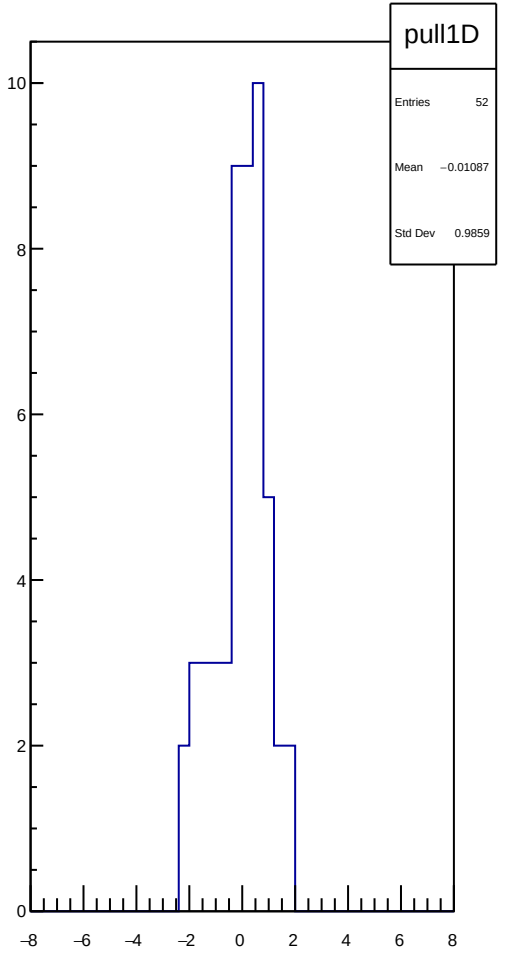

reg_asym_usr_rms vs run
χ² / ndf 58.49 / 50
p0 133.2 ± 0.1305
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

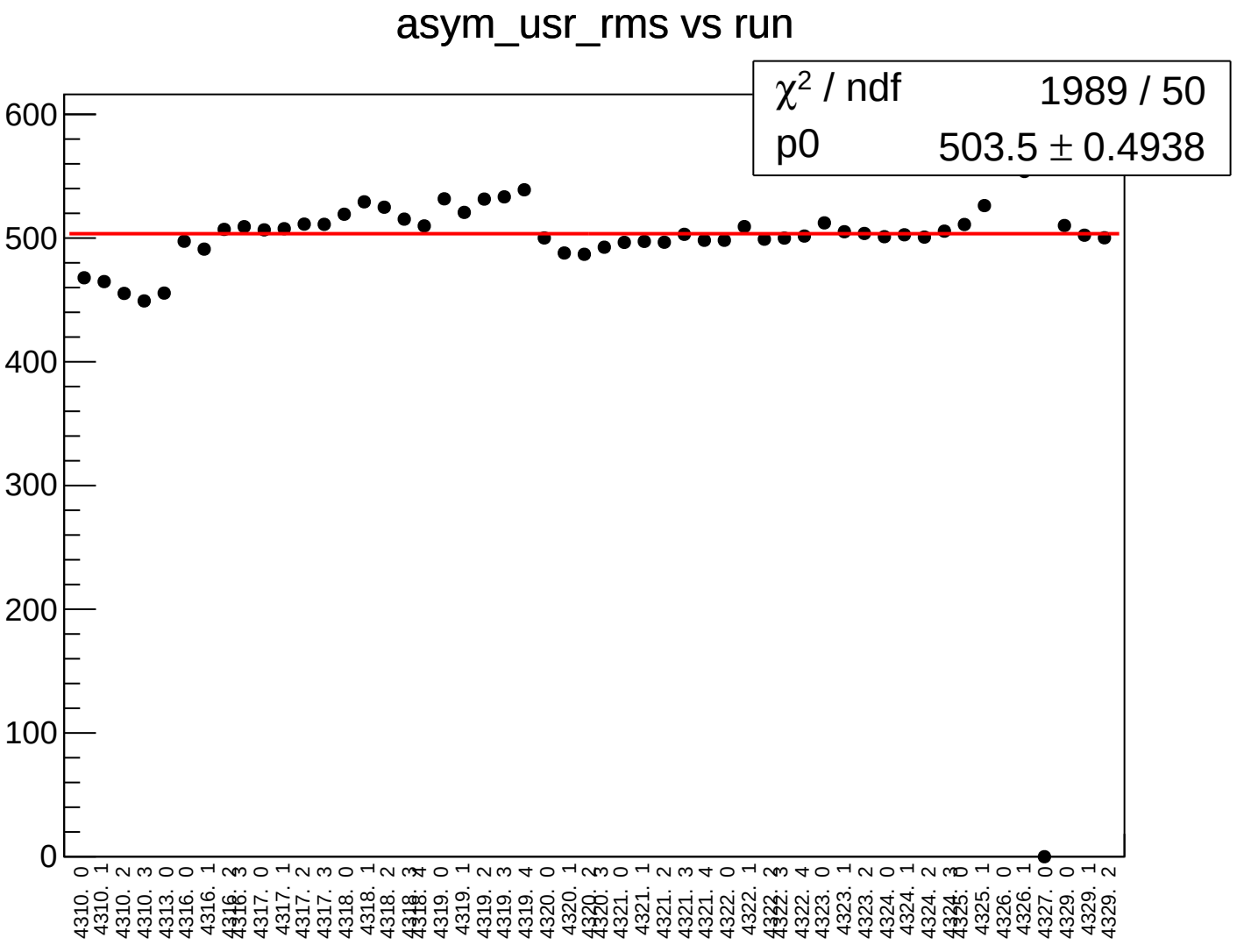

asym_usr_correction_mean vs run
χ² / ndf 52.57 / 50
p0 174.9 ± 673.3
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

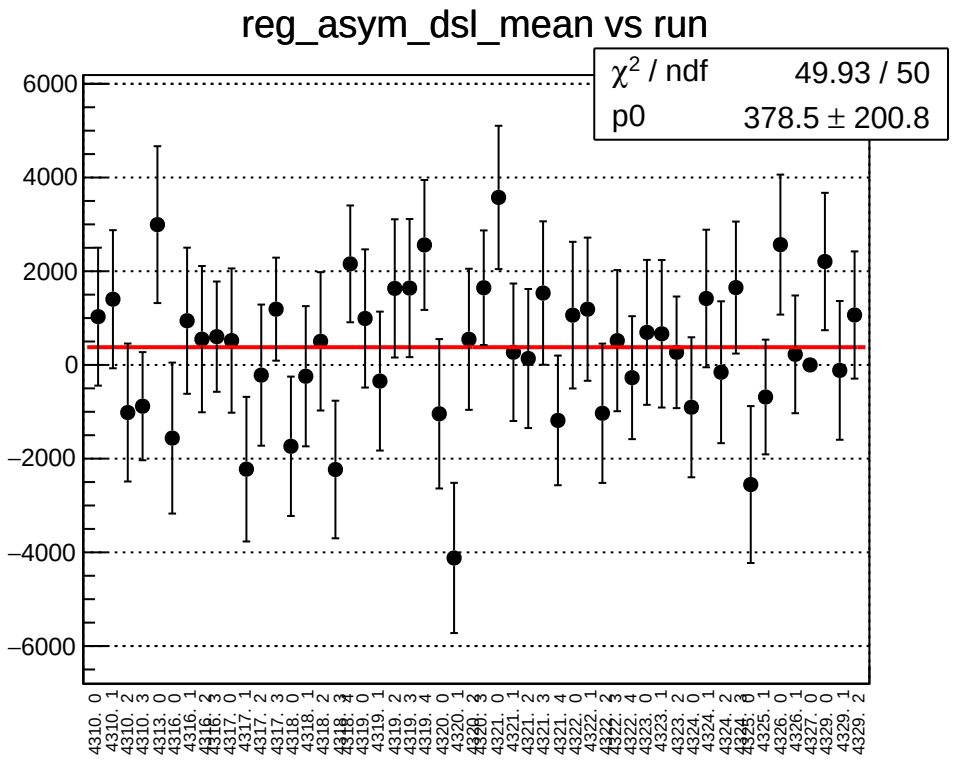

pull1D
Entries 52
Mean 0.008751
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

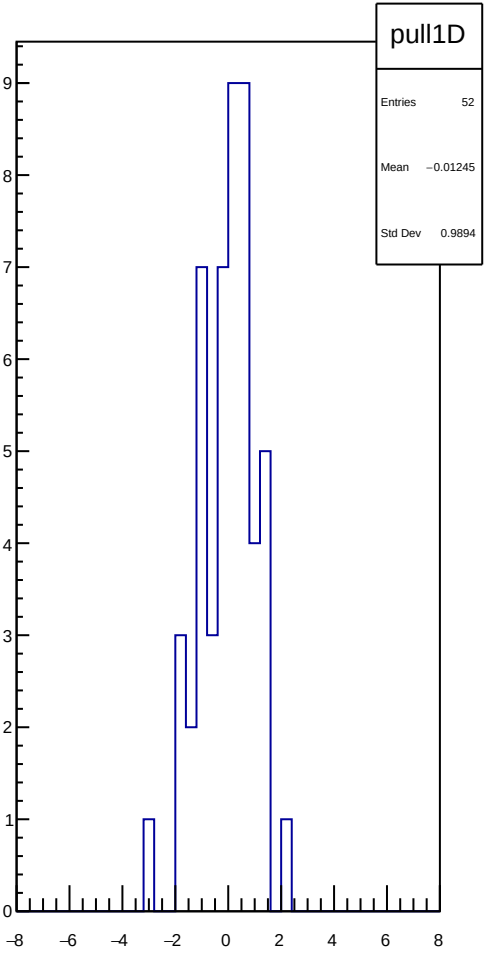

asym_usr_correction_rms vs run
χ² / ndf 2312 / 50
p0 485.4 ± 0.4761
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_usr_mean vs run
χ² / ndf 49.57 / 50
p0 538.1 ± 698.4
15000
10000
5000
0
−5000
−10000
−15000
−20000


pull1D
Entries 52
Mean −0.01087
Std Dev 0.9859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 1989 / 50
p0 503.5 ± 0.4938
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_dsl_mean vs run
χ² / ndf 49.93 / 50
p0 378.5 ± 200.8
6000
4000
2000
0
−2000
−4000
−6000


pull1D
Entries 52
Mean −0.01245
Std Dev 0.9894
9
8
7
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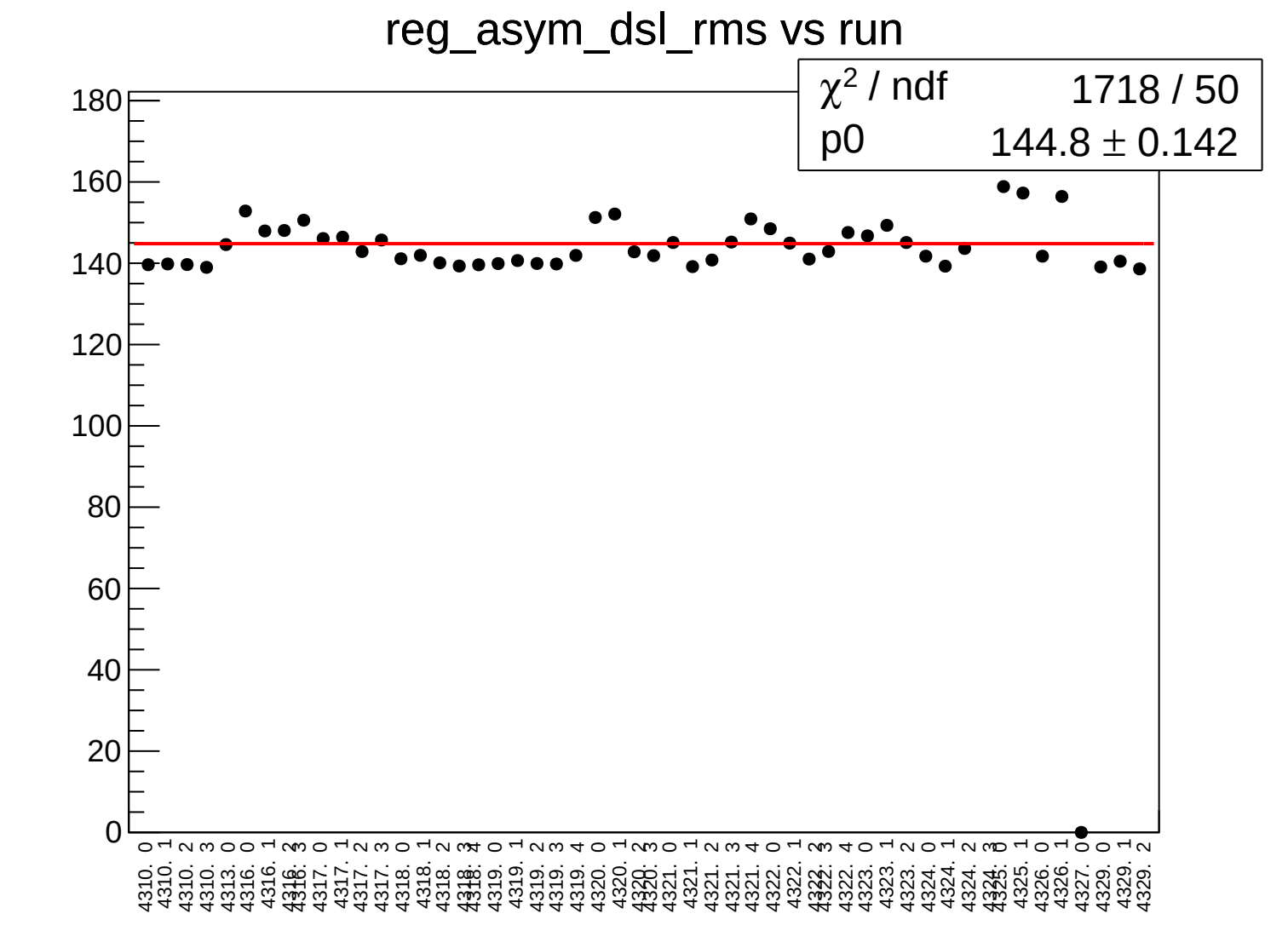
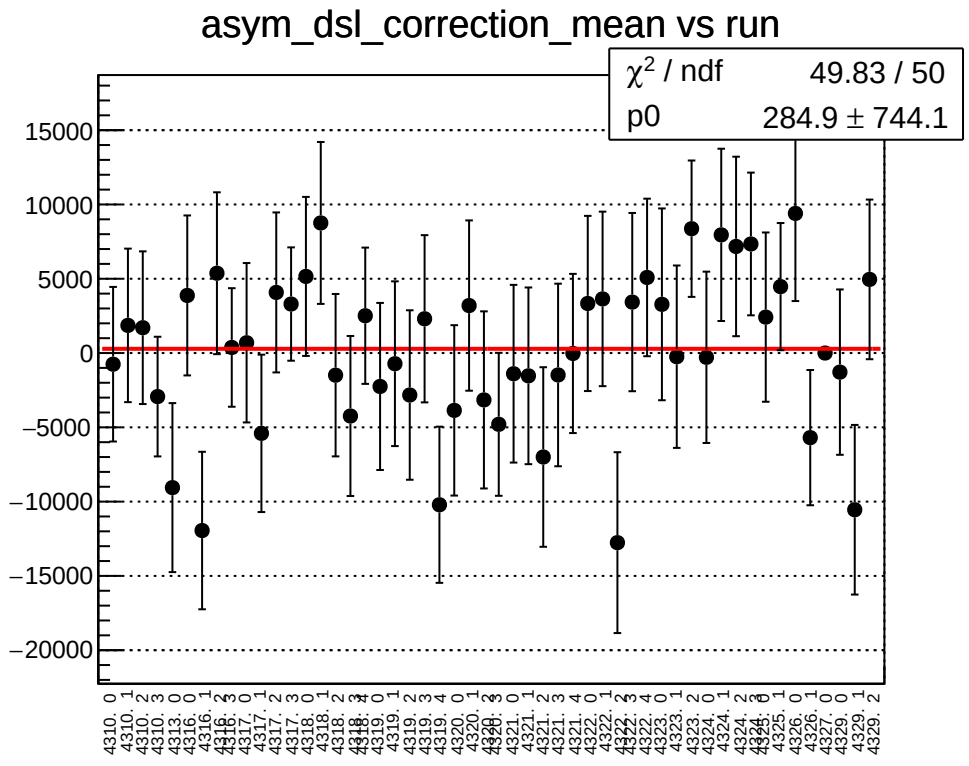
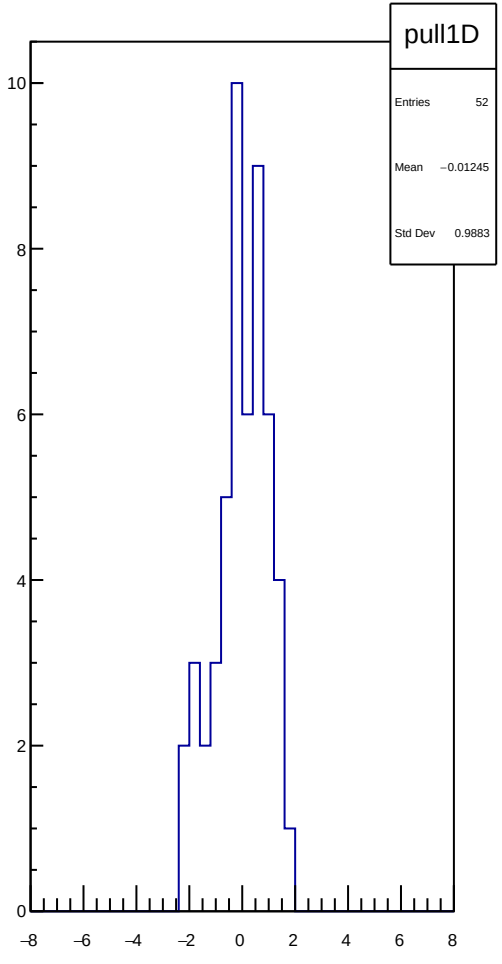
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 1718 / 50
p0 144.8 ± 0.142
180
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_dsl_correction_mean vs run
χ² / ndf 49.83 / 50
p0 284.9 ± 744.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01245
Std Dev 0.9883
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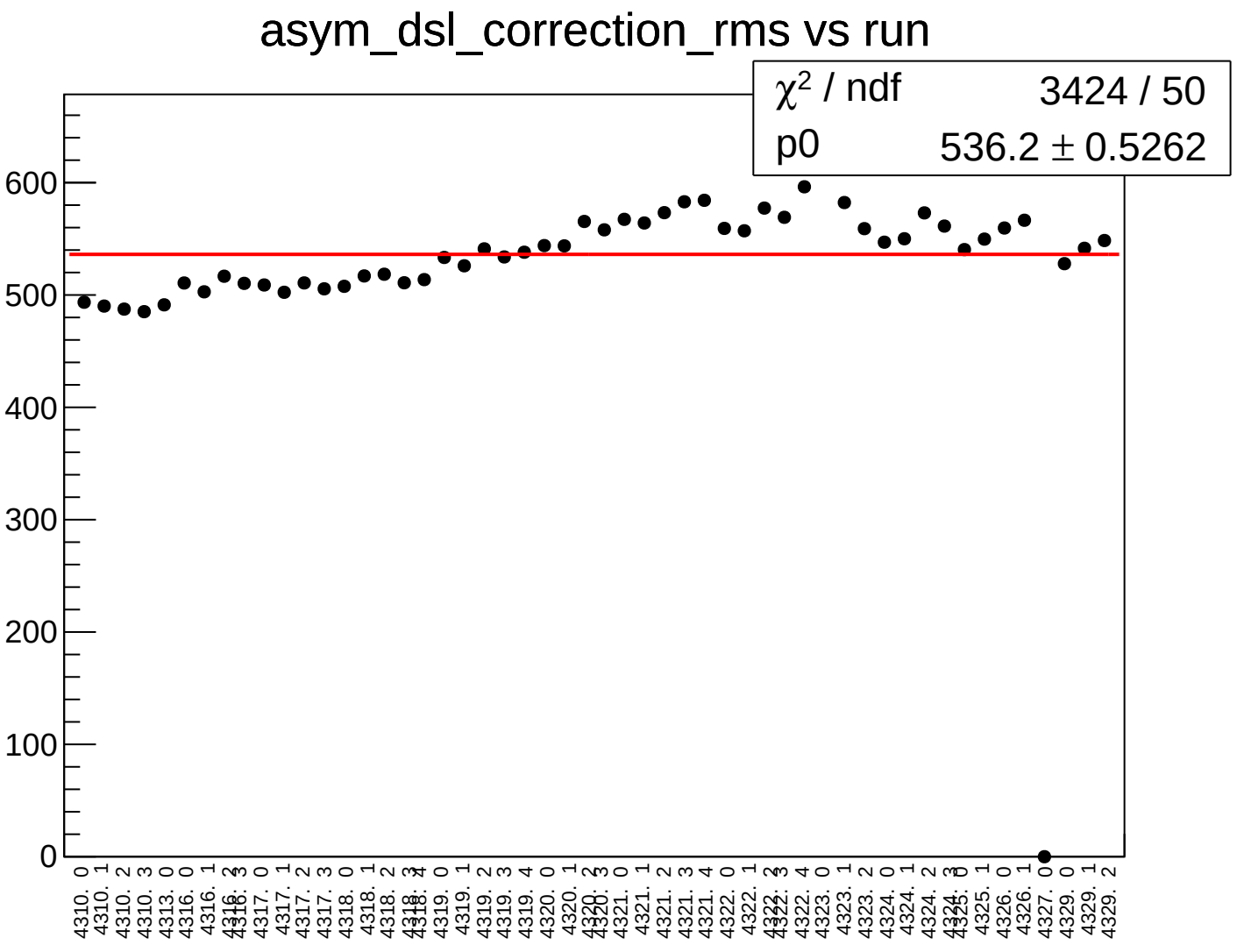
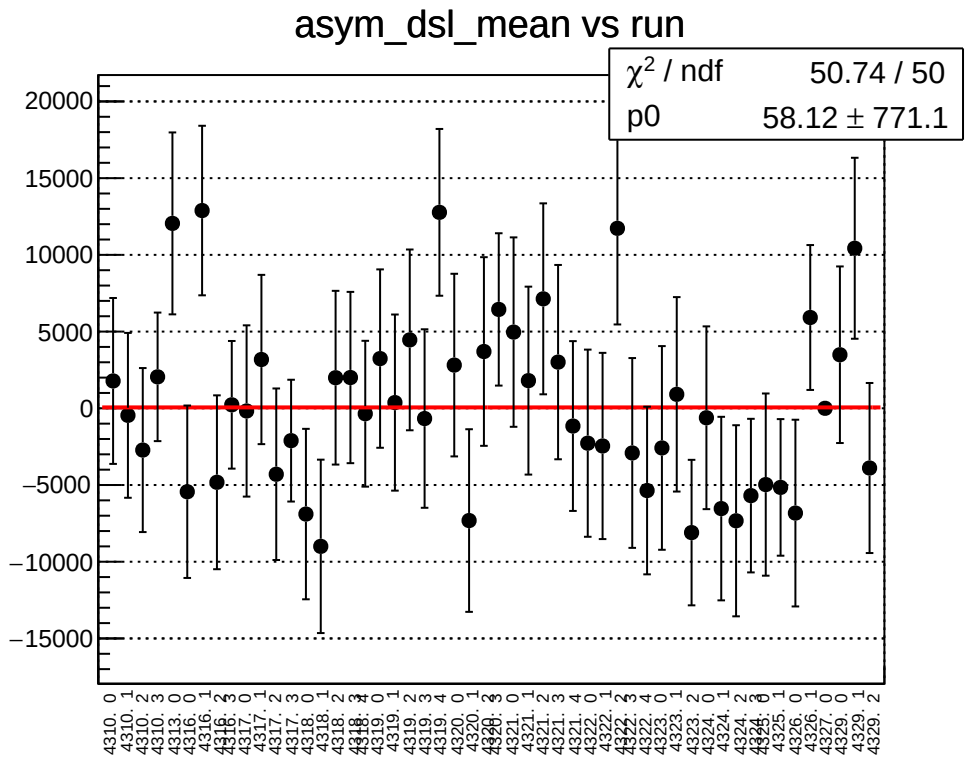
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_correction_rms vs run
χ² / ndf 3424 / 50
p0 536.2 ± 0.5262
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_dsl_mean vs run
χ² / ndf 50.74 / 50
p0 58.12 ± 771.1
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
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4322. 4
4323. 0
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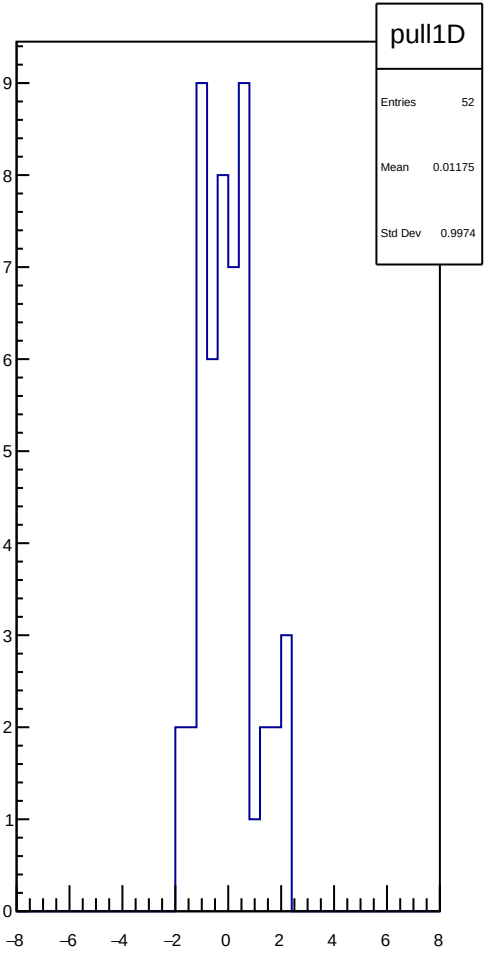
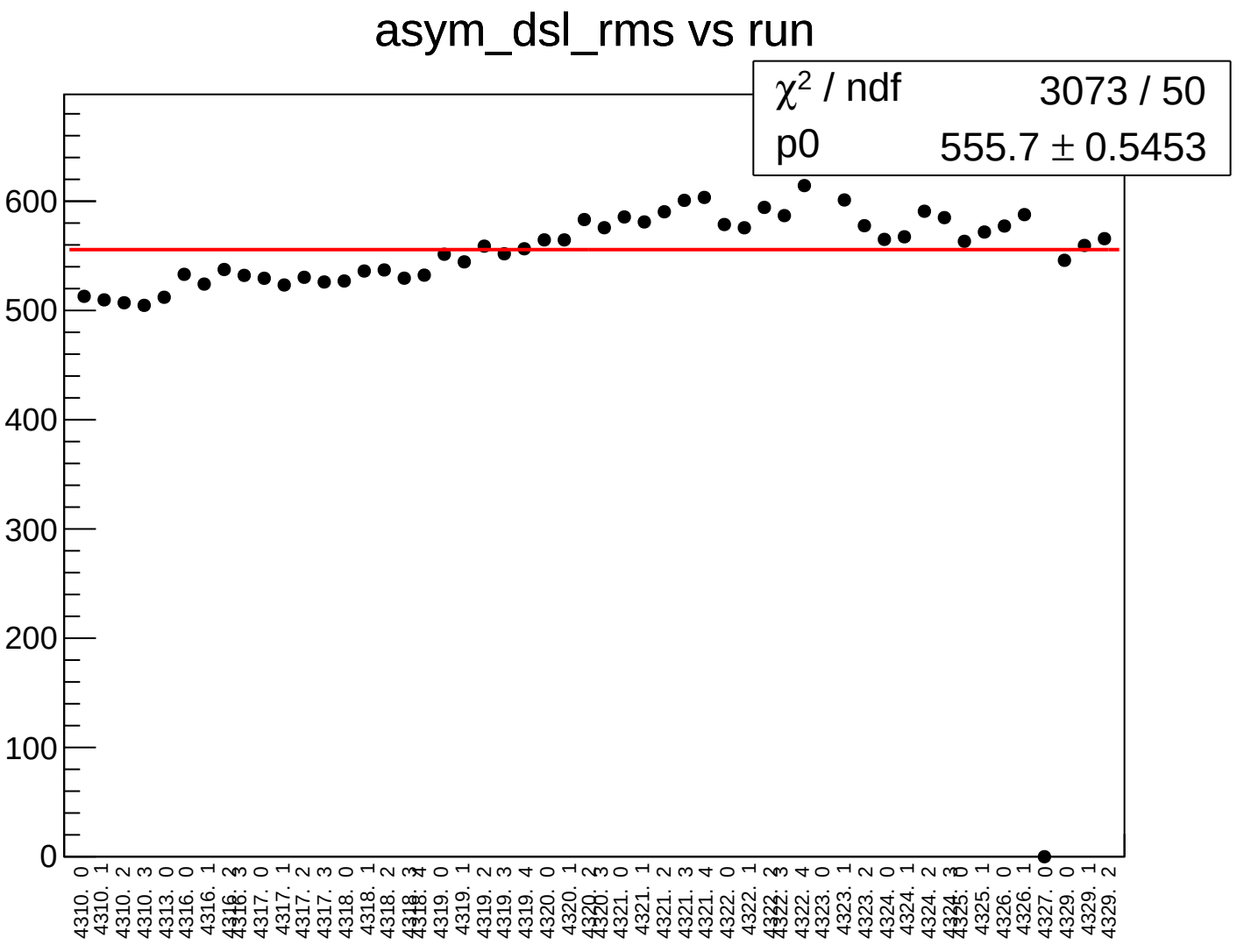
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.01175
Std Dev 0.9974
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_rms vs run
χ² / ndf 3073 / 50
p0 555.7 ± 0.5453
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
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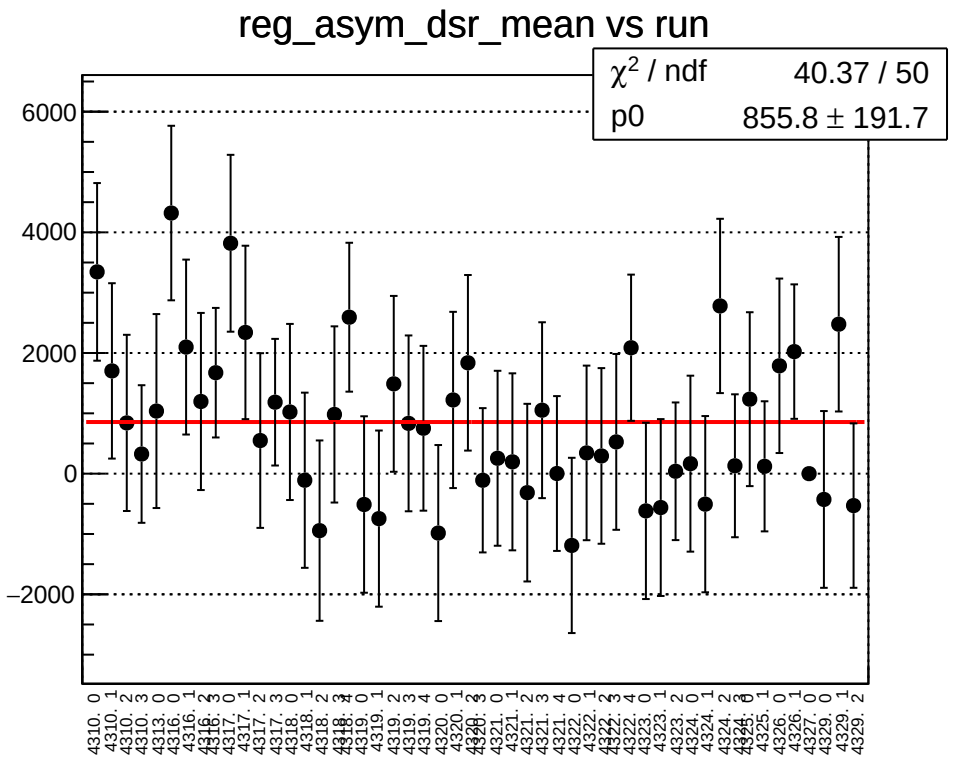
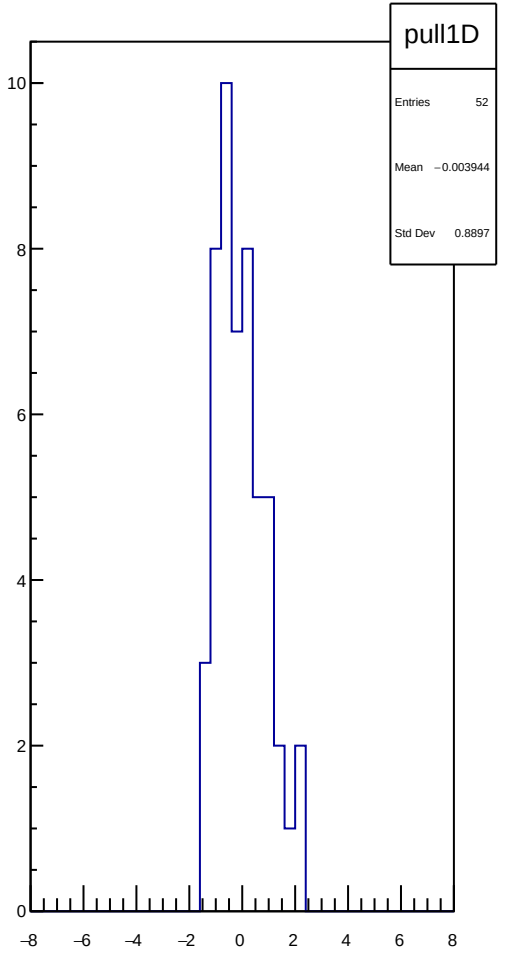
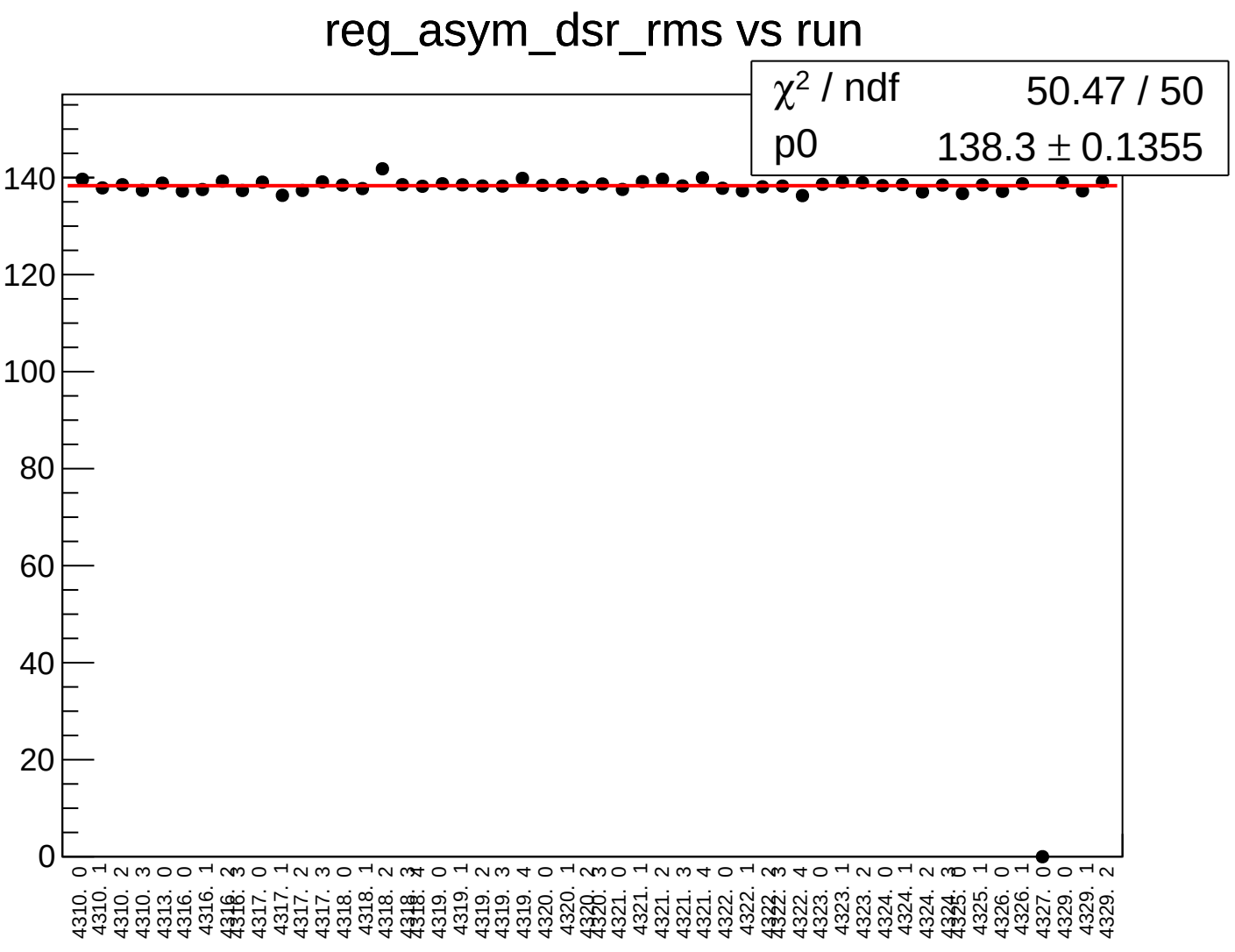
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_dsr_mean vs run
χ^2 / ndf 40.37 / 50
p0 855.8 ± 191.7
6000
4000
2000
0
−2000


pull1D
Entries 52
Mean −0.003944
Std Dev 0.8897
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 50.47 / 50
p0 138.3 ± 0.1355
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
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4326. 1
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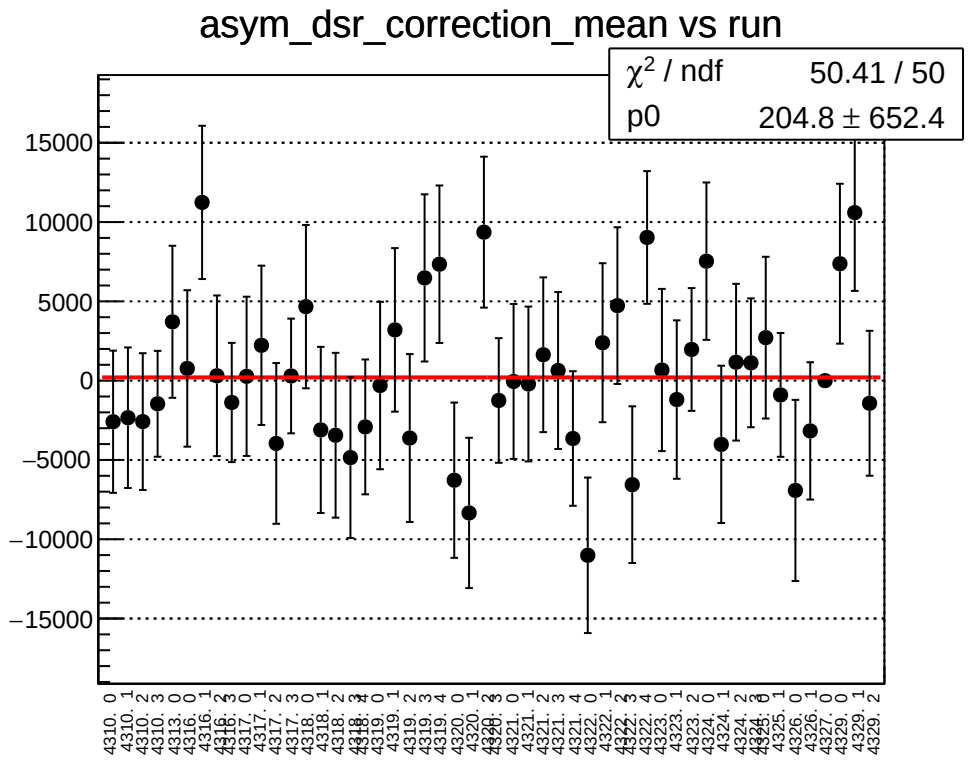
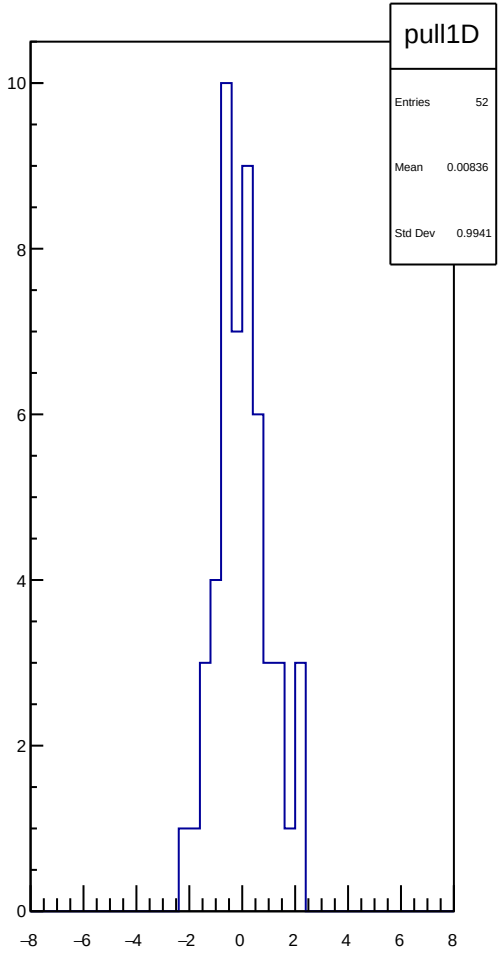
4329. 1
4329. 2


asym_dsr_correction_mean vs run
χ² / ndf 50.41 / 50
p0 204.8 ± 652.4
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.00836
Std Dev 0.9941
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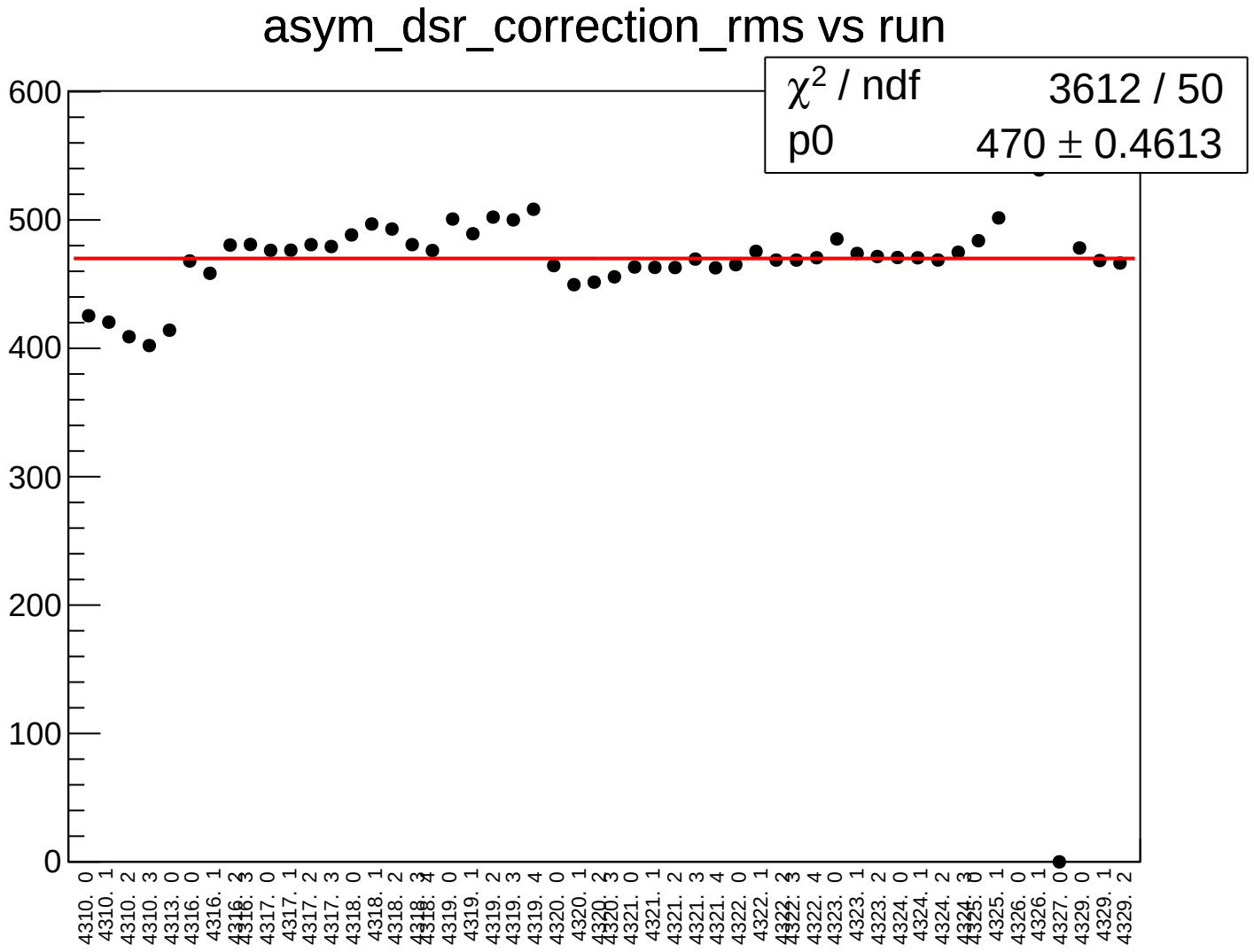
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_correction_rms vs run
χ^2 / ndf 3612 / 50
p0 470 ± 0.4613
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
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4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 1
4324. 2
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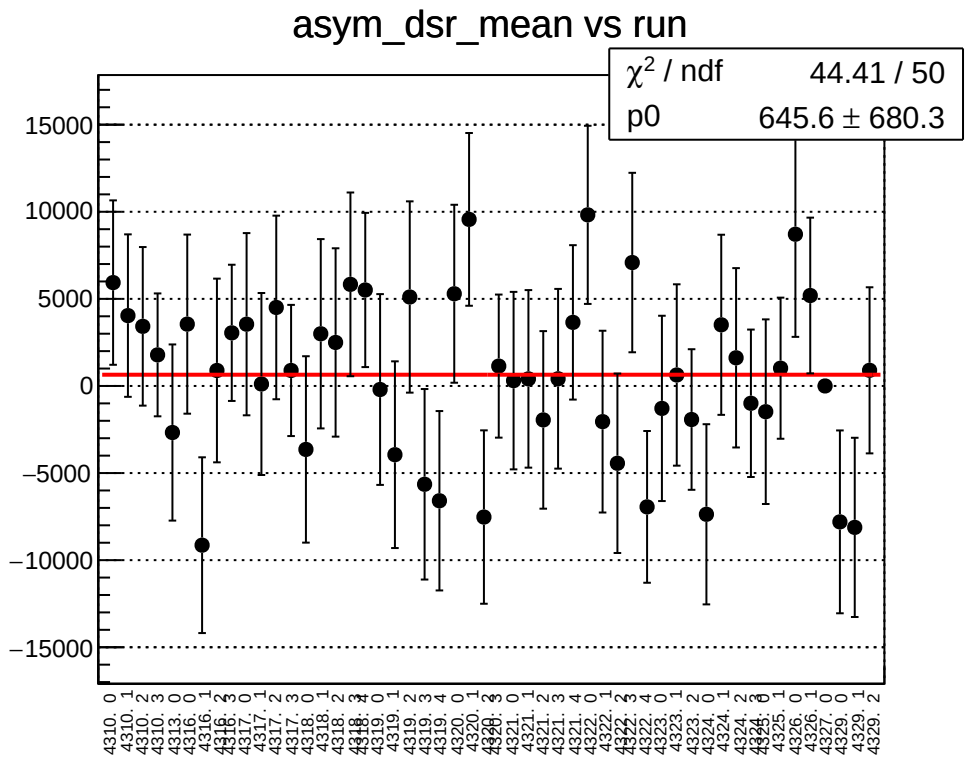
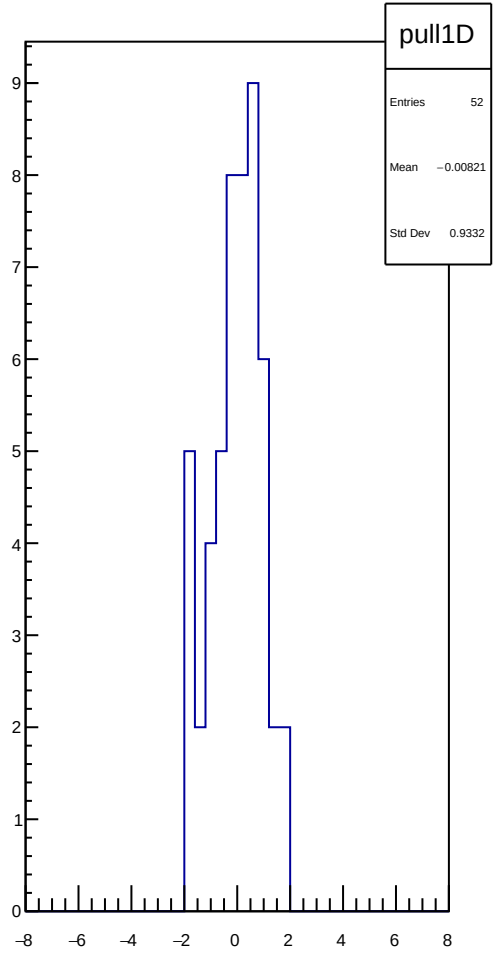

asym_dsr_mean vs run
χ² / ndf 44.41 / 50
p0 645.6 ± 680.3
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean −0.00821
Std Dev 0.9332
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8
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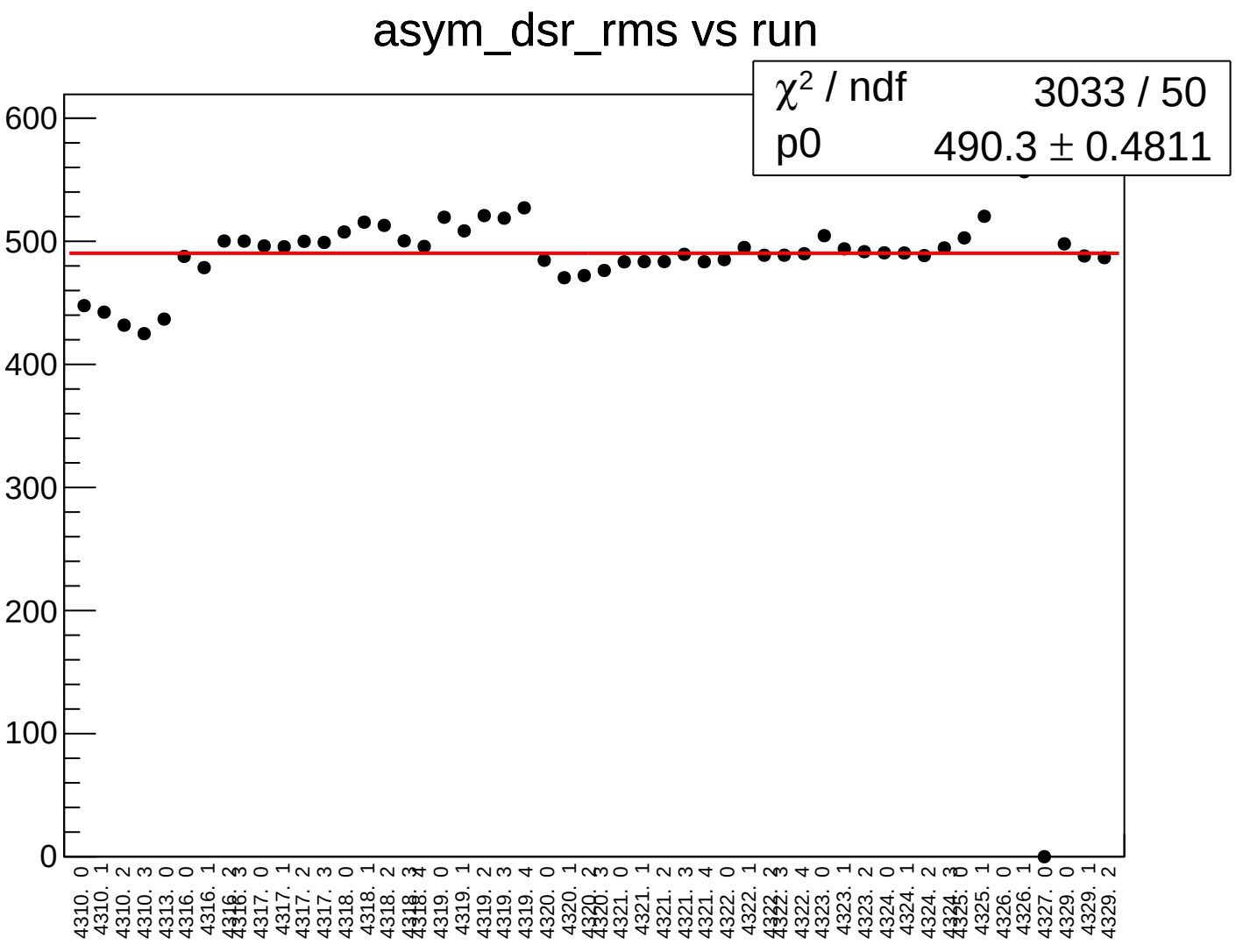
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ² / ndf 3033 / 50
p0 490.3 ± 0.4811
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
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4319. 4
4320. 0
4320. 1
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4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
4325. 1
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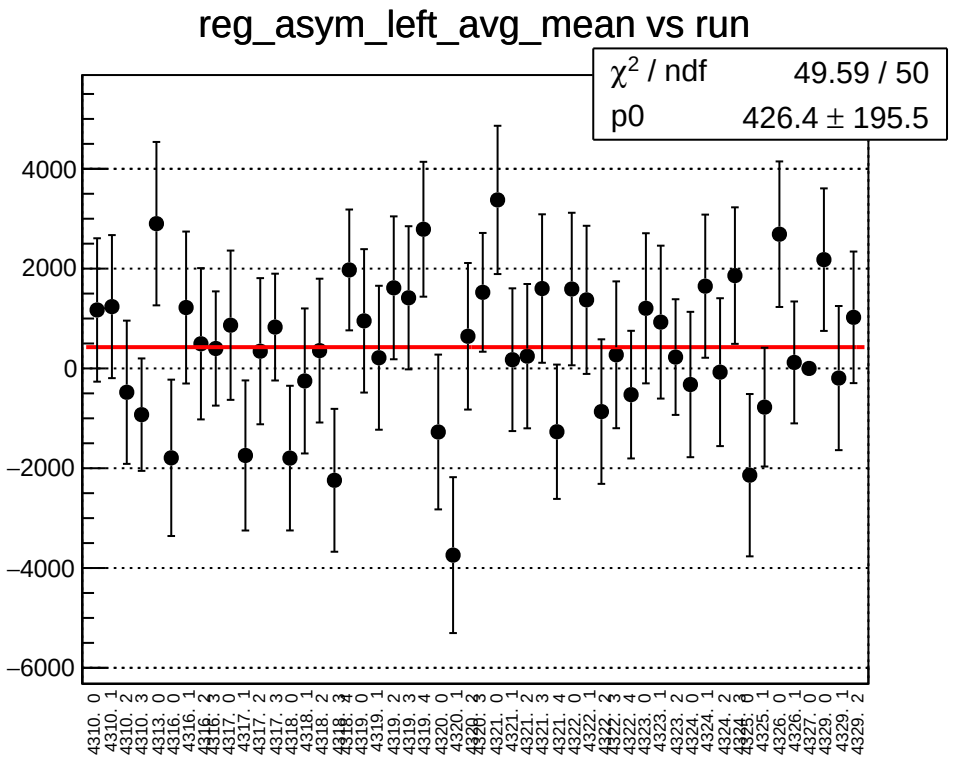
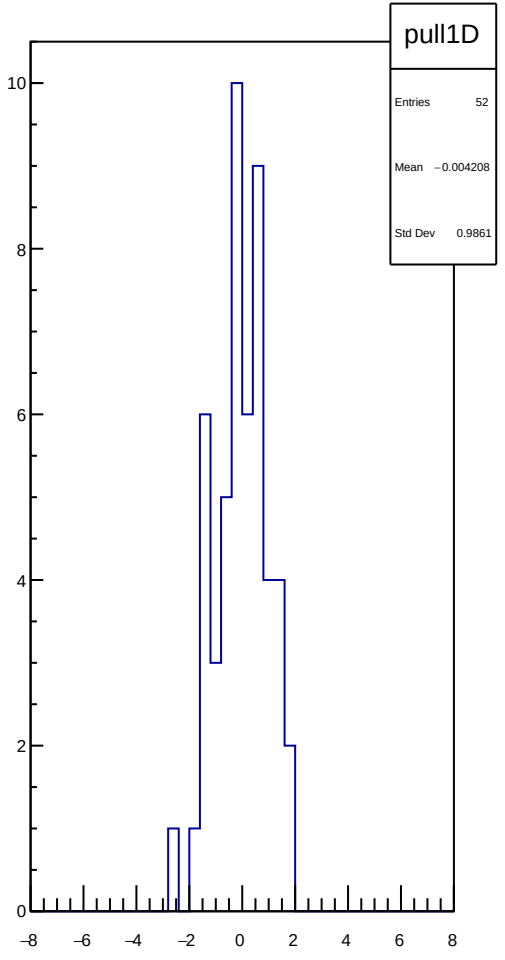
4329. 2


reg_asym_left_avg_mean vs run
χ² / ndf 49.59 / 50
p0 426.4 ± 195.5
4000
2000
0
−2000
−4000
−6000


pull1D
Entries 52
Mean −0.004208
Std Dev 0.9861
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8
6
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2
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−8
−6
−4
−2
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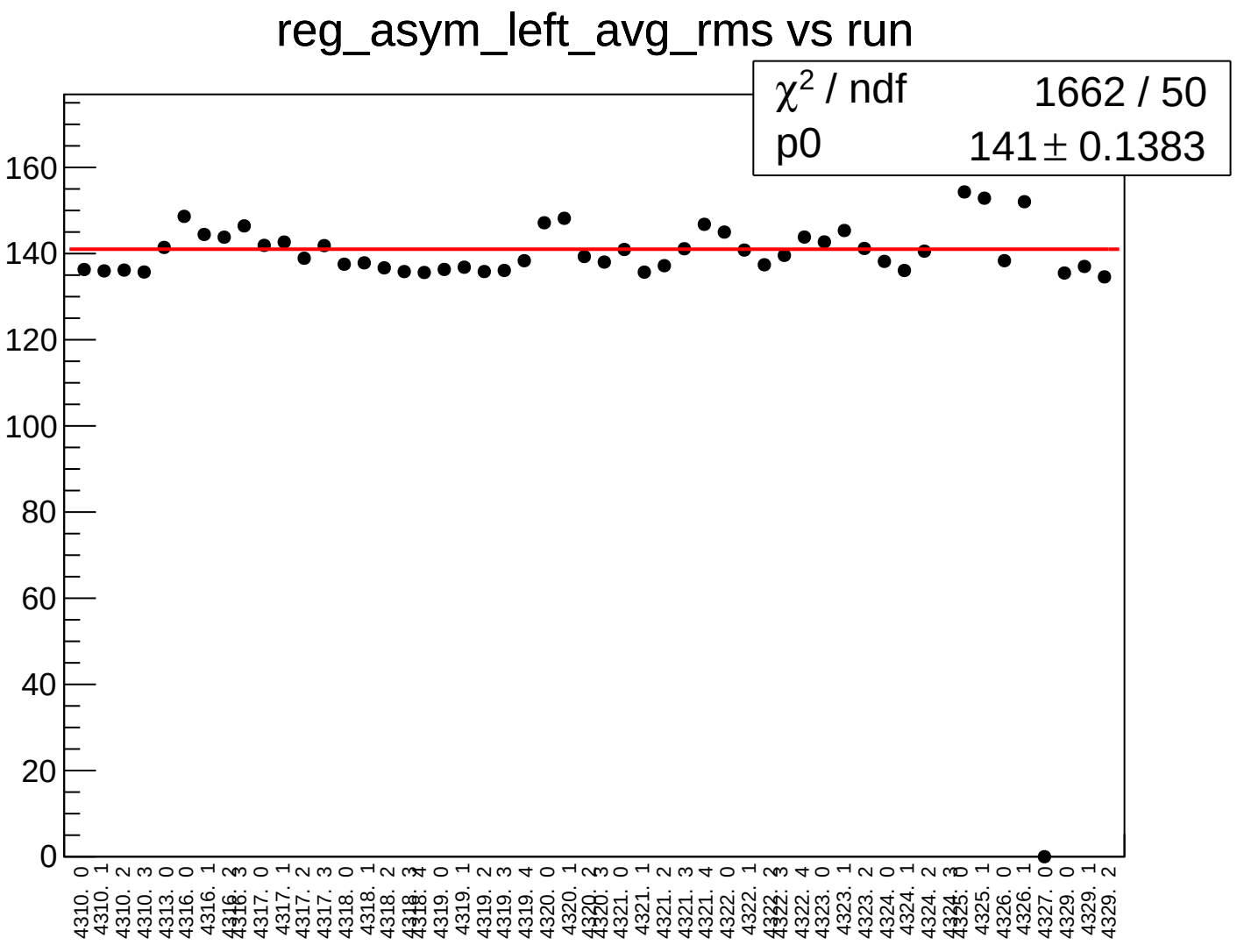
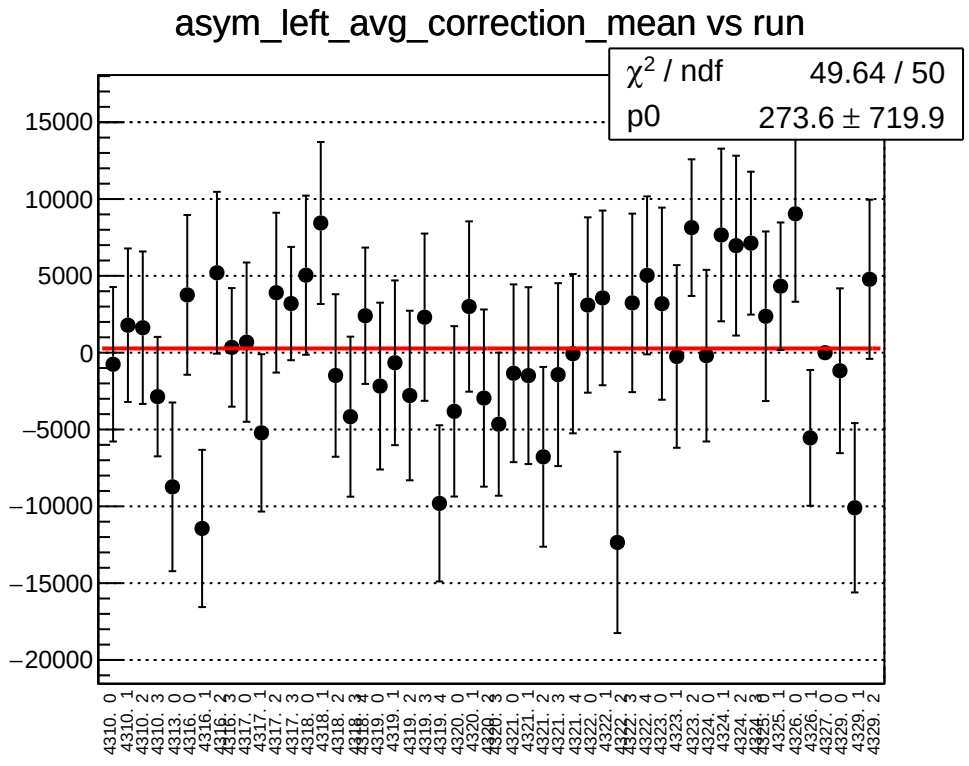
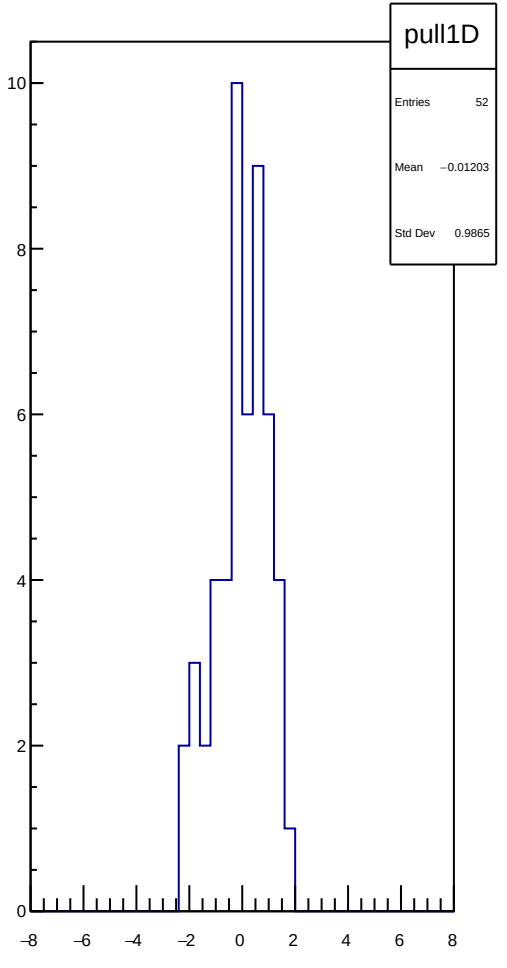
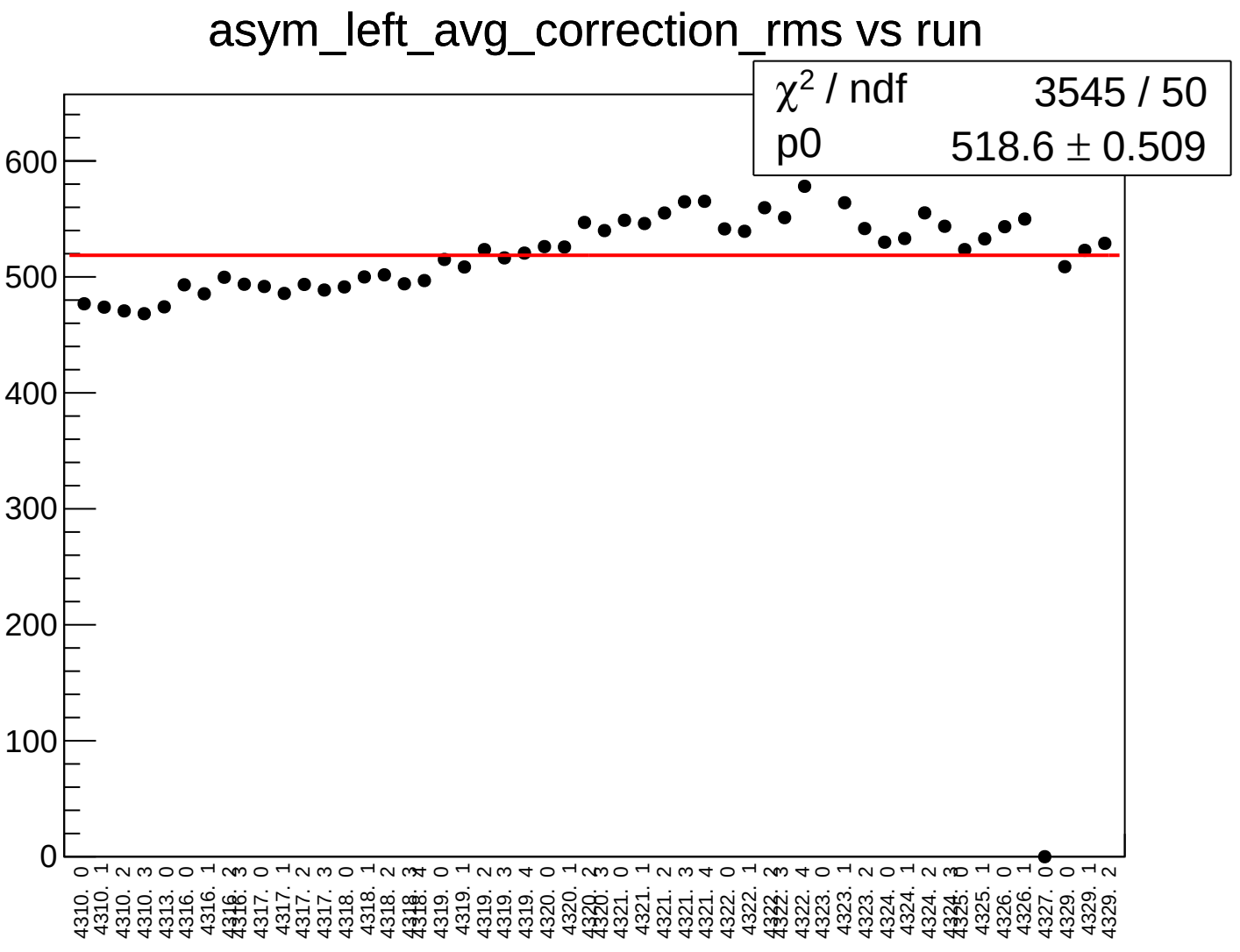
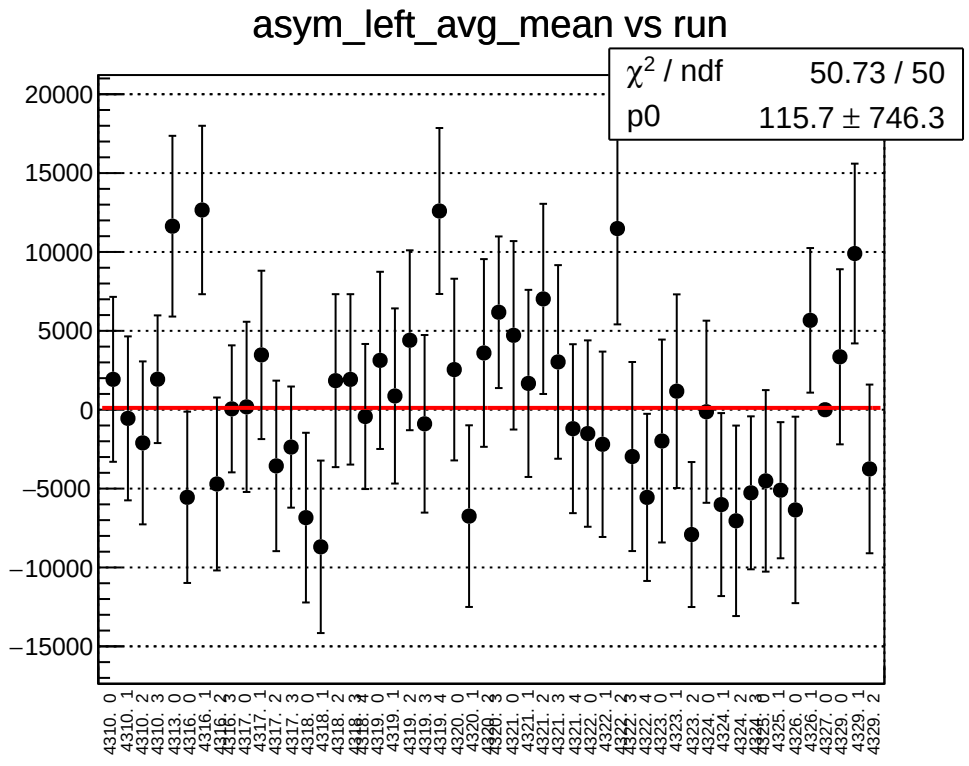
2
4
6
8

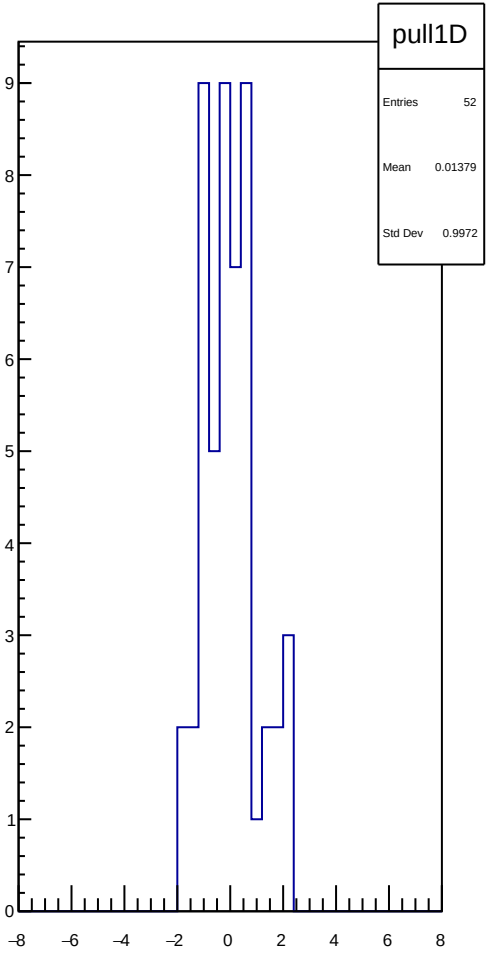

reg_asym_left_avg_rms vs run
χ² / ndf 1662 / 50
p0 141 ± 0.1383
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

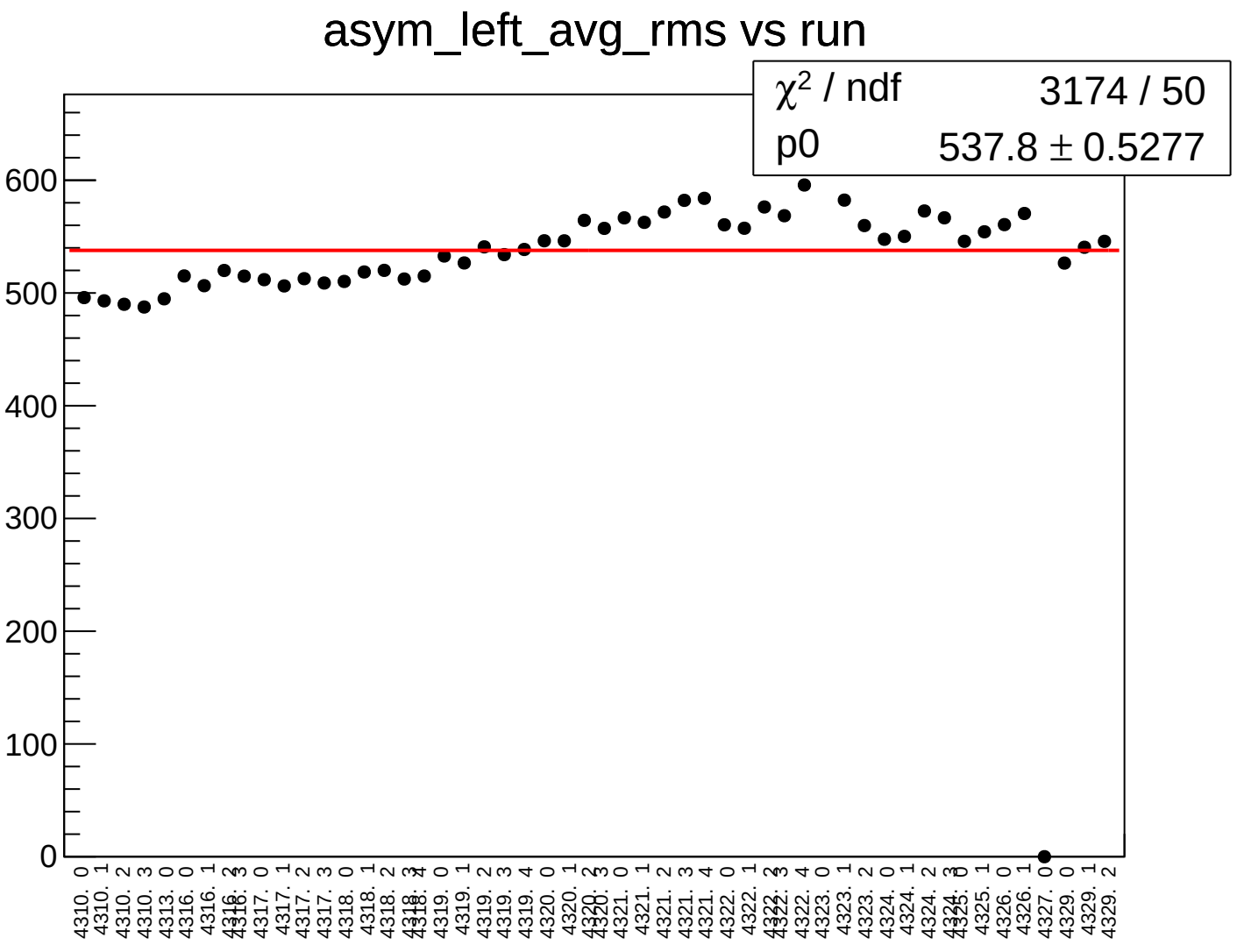

asym_left_avg_correction_mean vs run
χ² / ndf 49.64 / 50
p0 273.6 ± 719.9
15000
10000
5000
0
−5000
−10000
−15000
−20000


pull1D
Entries 52
Mean −0.01203
Std Dev 0.9865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_correction_rms vs run
χ² / ndf 3545 / 50
p0 518.6 ± 0.509
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_left_avg_mean vs run
χ² / ndf 50.73 / 50
p0 115.7 ± 746.3
20000
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean 0.01379
Std Dev 0.9972
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ² / ndf 3174 / 50
p0 537.8 ± 0.5277
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
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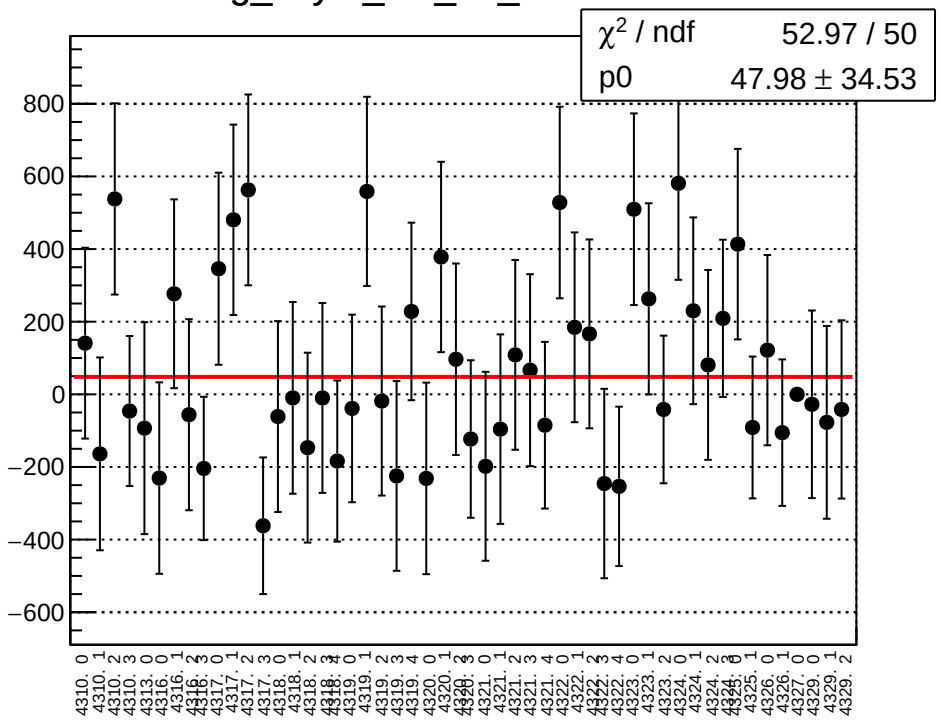
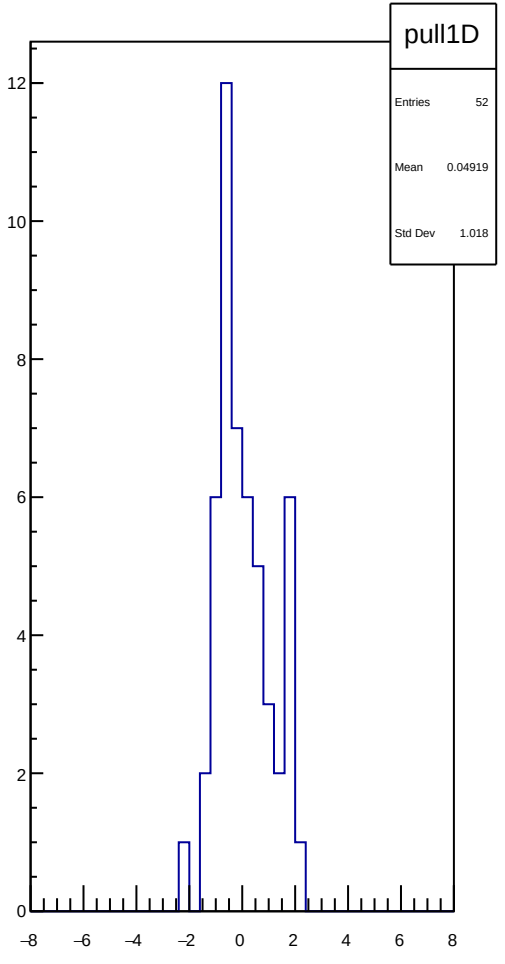
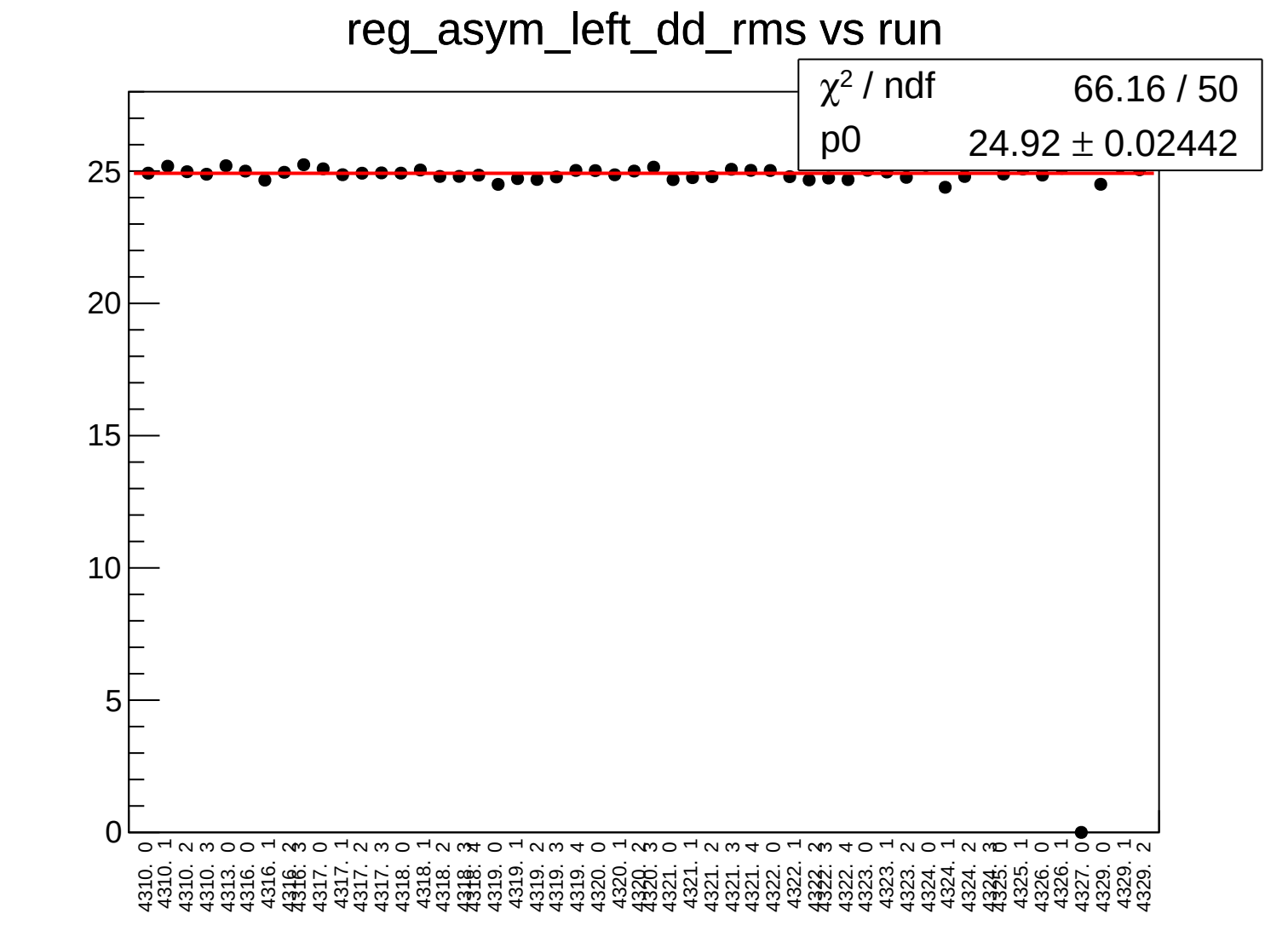
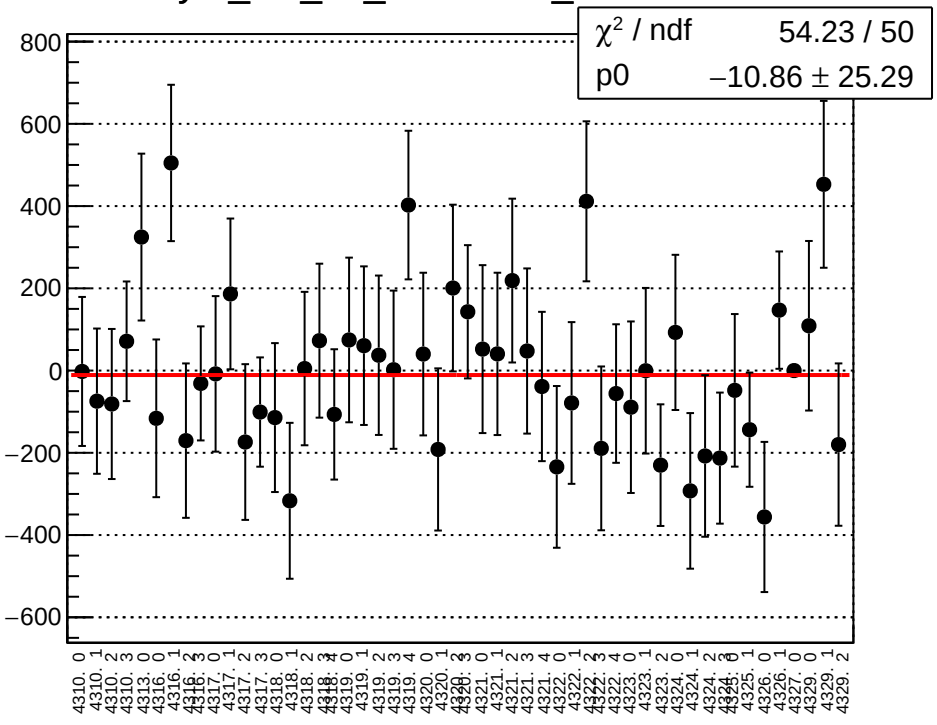
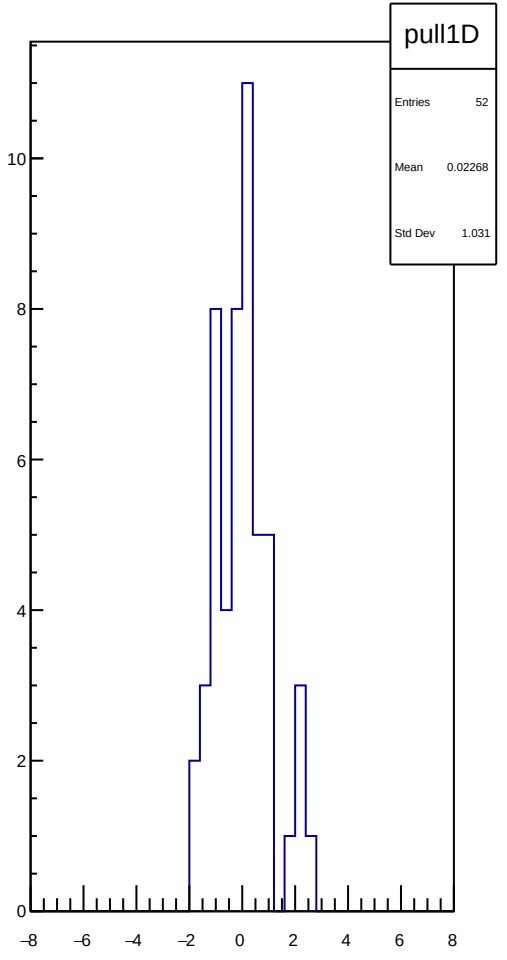
4329. 1
4329. 2

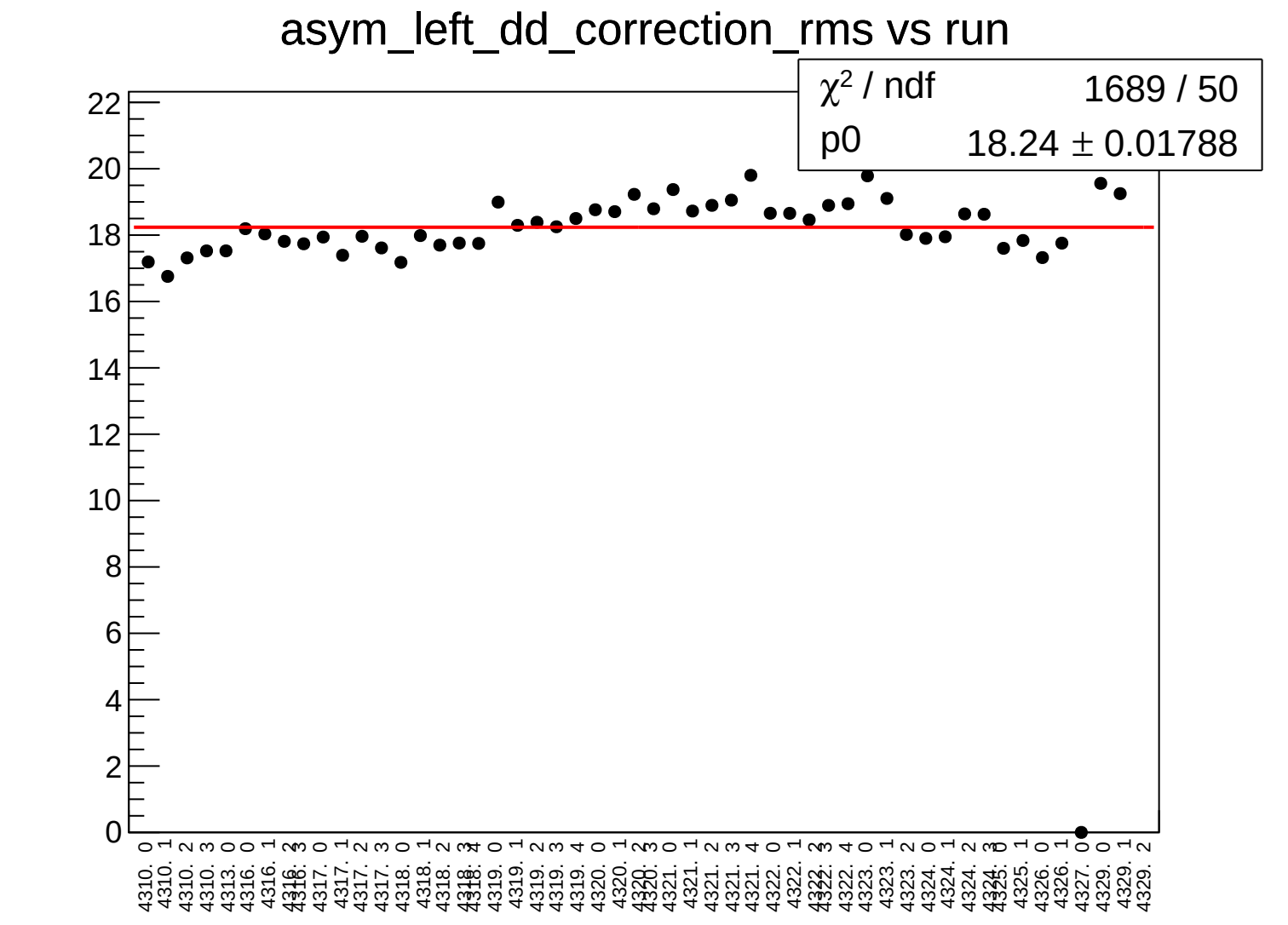

reg_asym_left_dd_mean vs run
χ² / ndf 52.97 / 50
p0 47.98 ± 34.53
800
600
400
200
0
−200
−400
−600

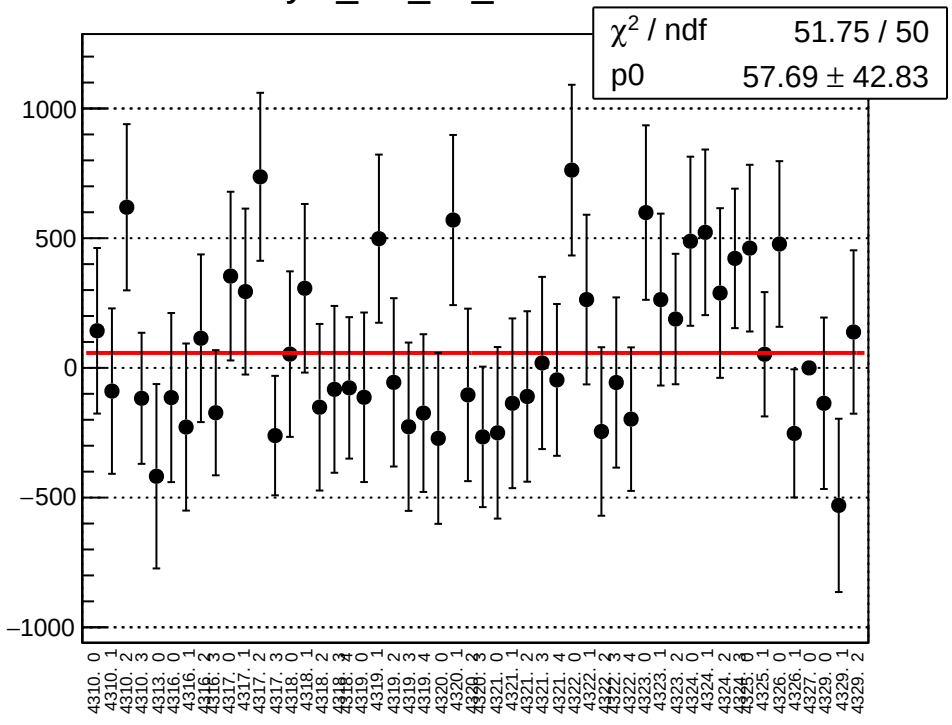

pull1D
Entries 52
Mean 0.04919
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

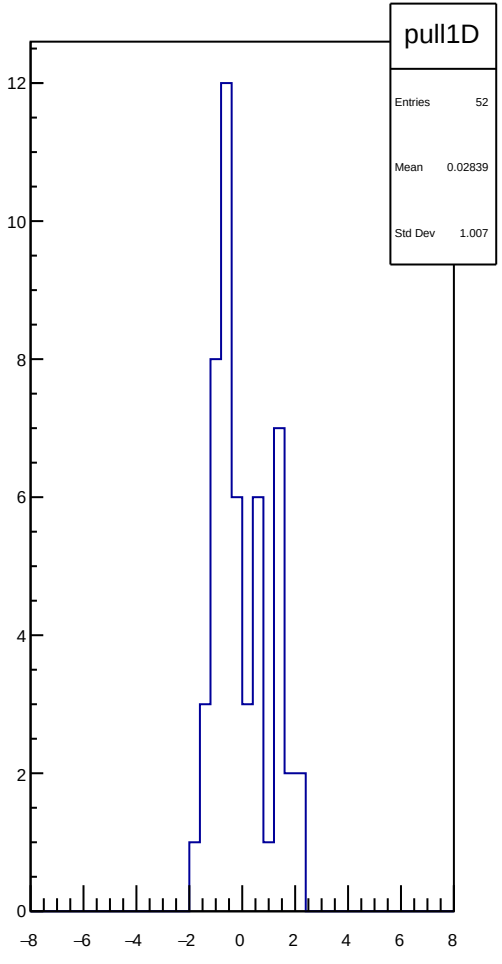

reg_asym_left_dd_rms vs run
χ² / ndf 66.16 / 50
p0 24.92 ± 0.02442
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

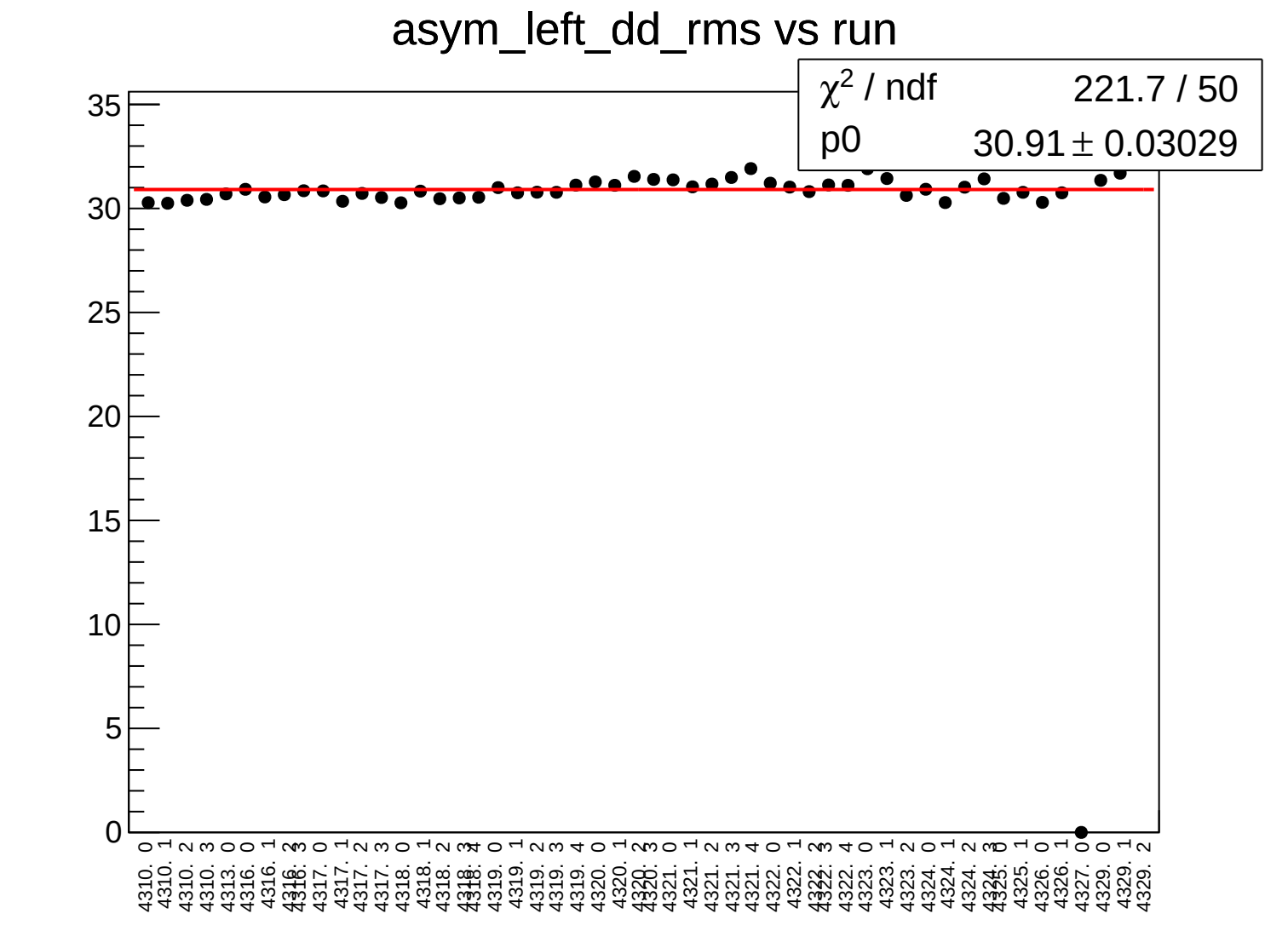

asym_left_dd_correction_mean vs run
χ² / ndf 54.23 / 50
p0 −10.86 ± 25.29
800
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

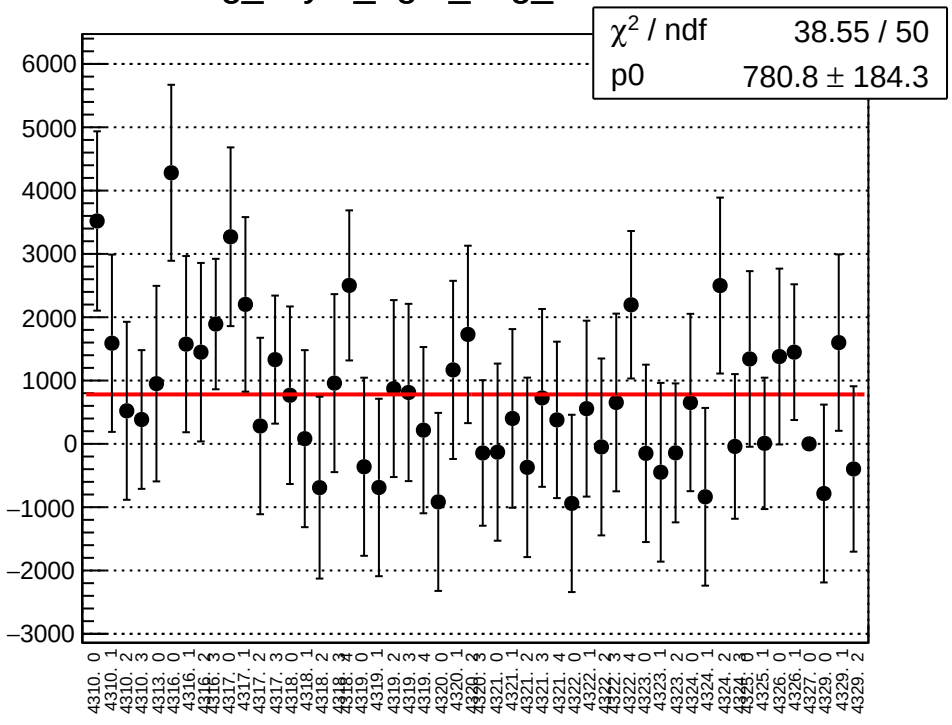

pull1D
Entries 52
Mean 0.02268
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

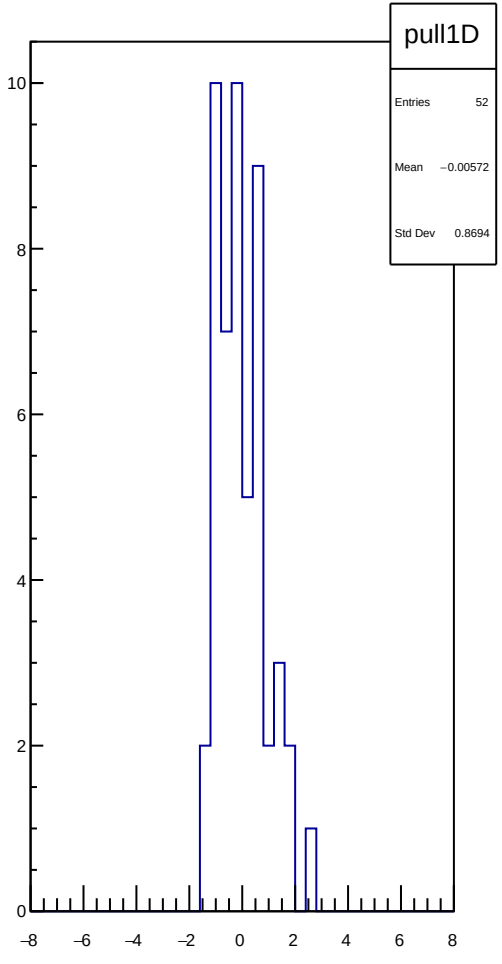

asym_left_dd_correction_rms vs run
χ² / ndf 1689 / 50
p0 18.24 ± 0.01788
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

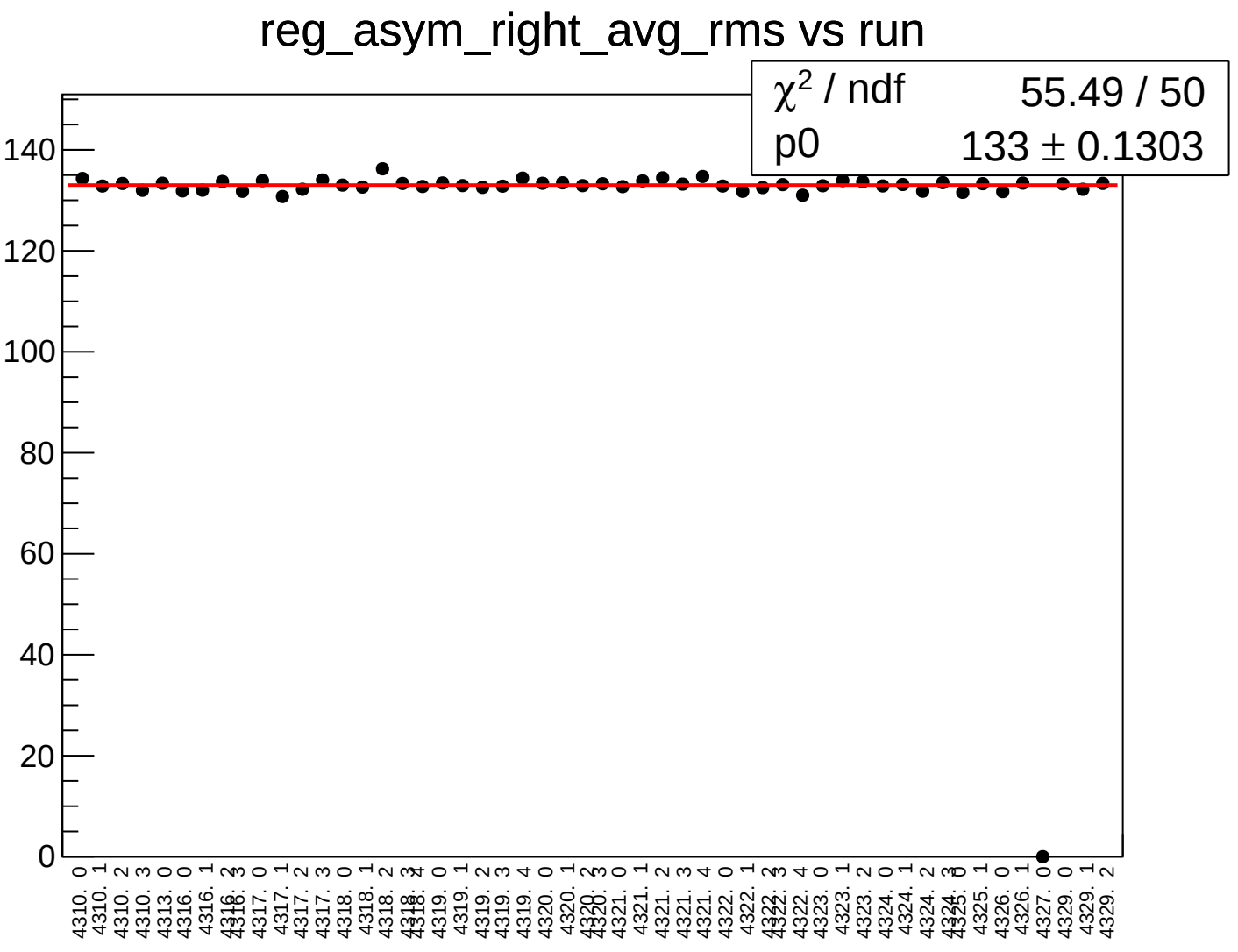

asym_left_dd_mean vs run
χ² / ndf 51.75 / 50
p0 57.69 ± 42.83
1000
500
0
−500
−1000

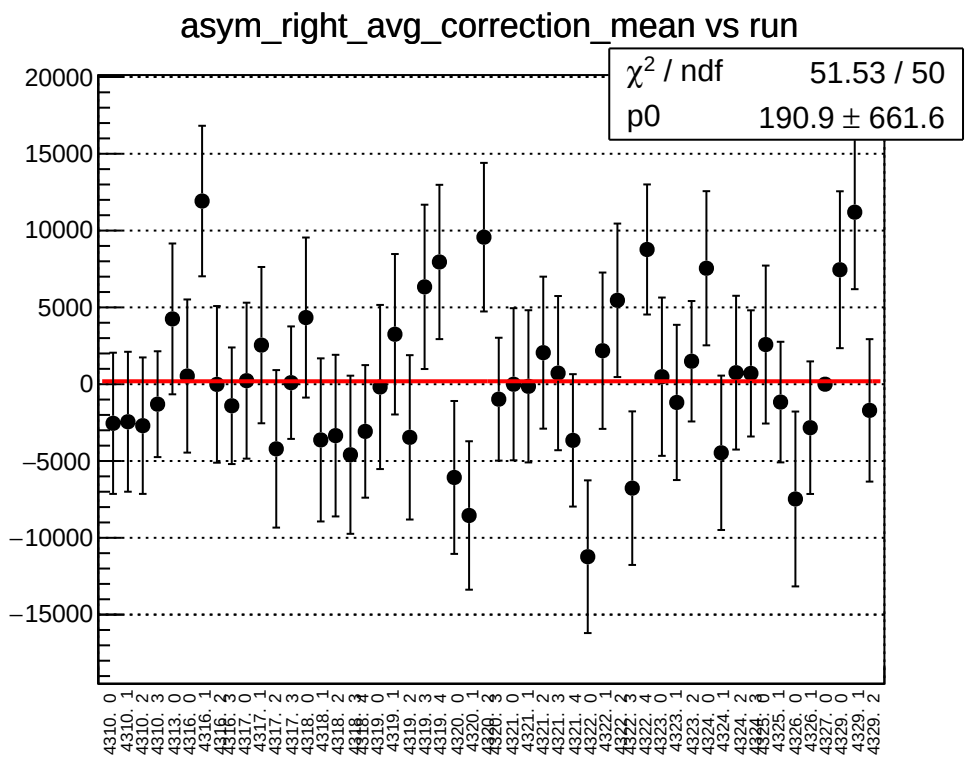

pull1D
Entries 52
Mean 0.02839
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

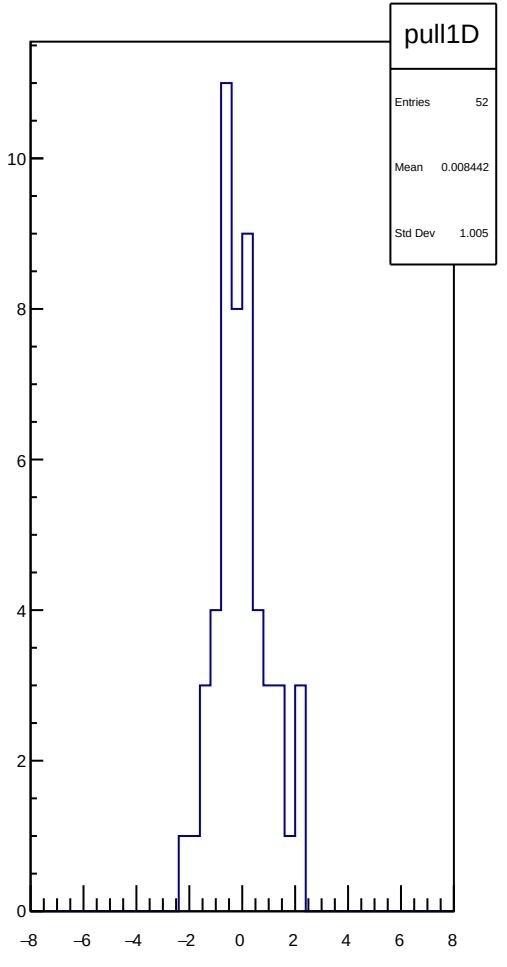

asym_left_dd_rms vs run
χ² / ndf 221.7 / 50
p0 30.91 ± 0.03029
35
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

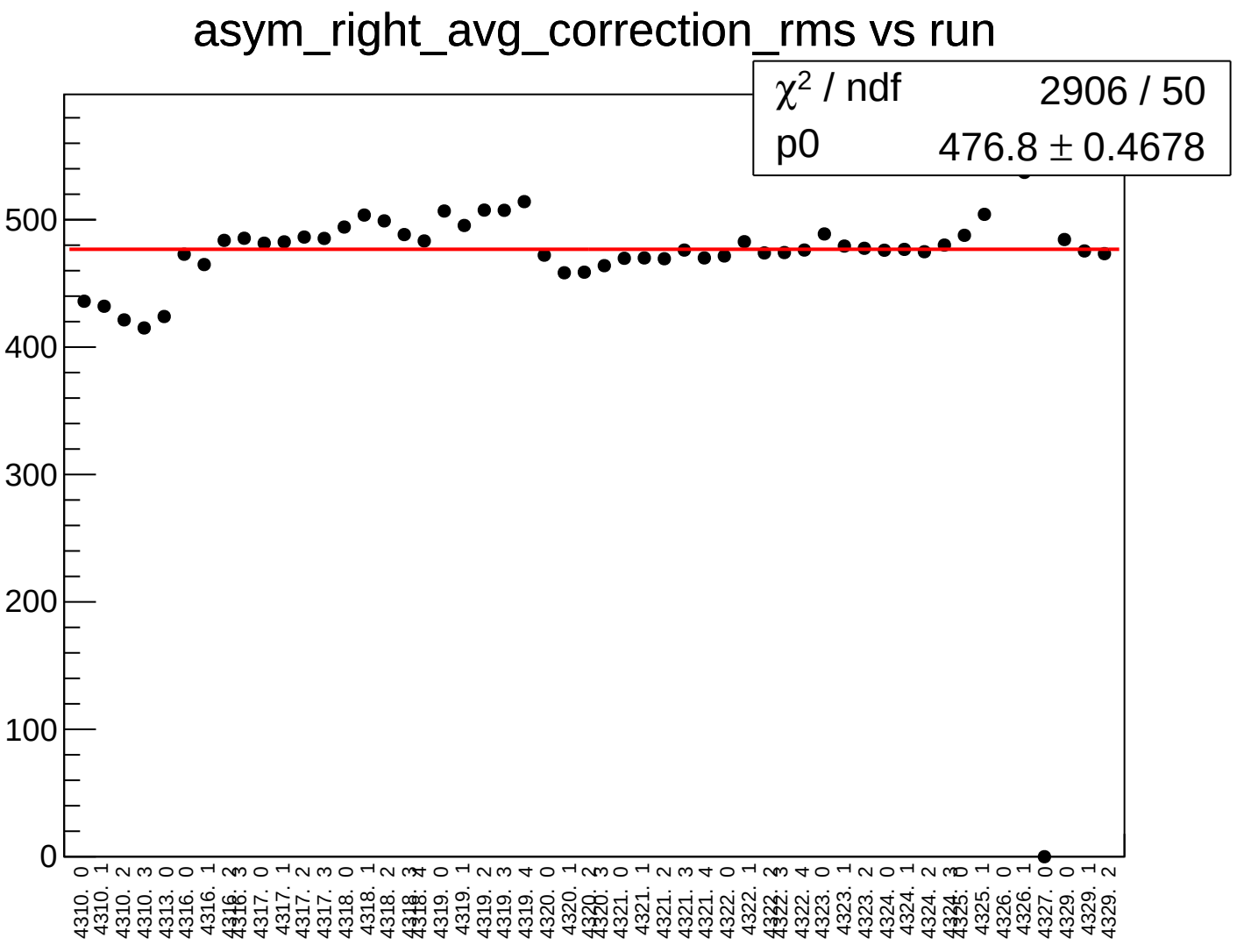

reg_asym_right_avg_mean vs run
χ² / ndf 38.55 / 50
p0 780.8 ± 184.3
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

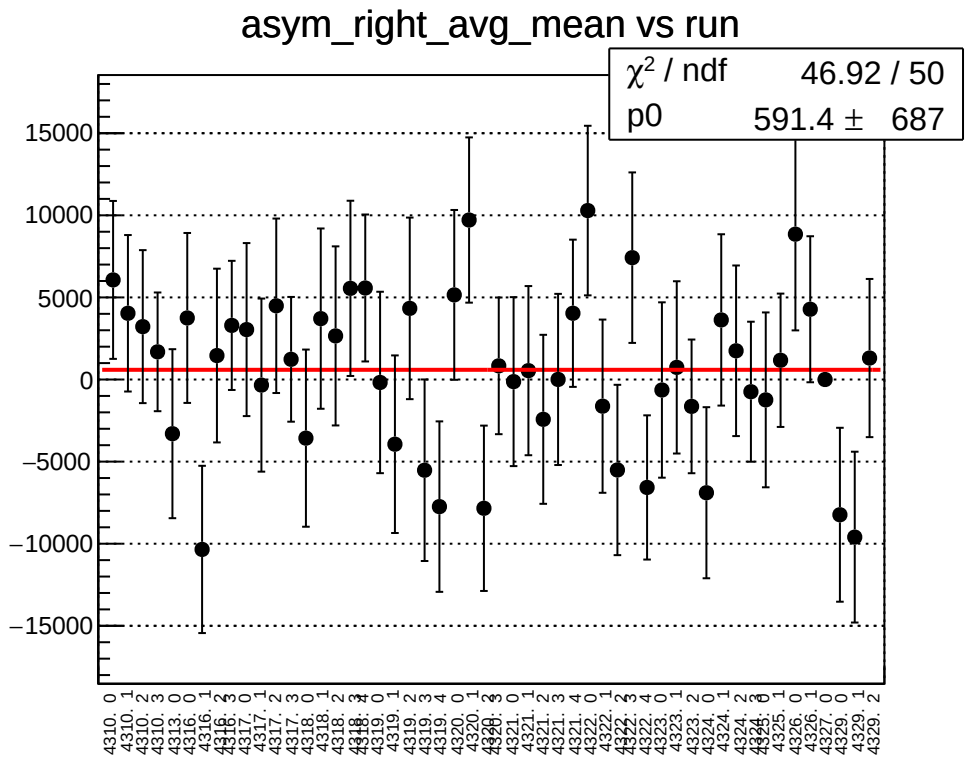

pull1D
Entries 52
Mean −0.00572
Std Dev 0.8694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_avg_rms vs run
χ² / ndf 55.49 / 50
p0 133 ± 0.1303
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_right_avg_correction_mean vs run
χ^2 / ndf 51.53 / 50
p0 190.9 ± 661.6
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.008442
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_avg_correction_rms vs run
χ² / ndf 2906 / 50
p0 476.8 ± 0.4678
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_right_avg_mean vs run
χ² / ndf 46.92 / 50
p0 591.4 ± 687
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
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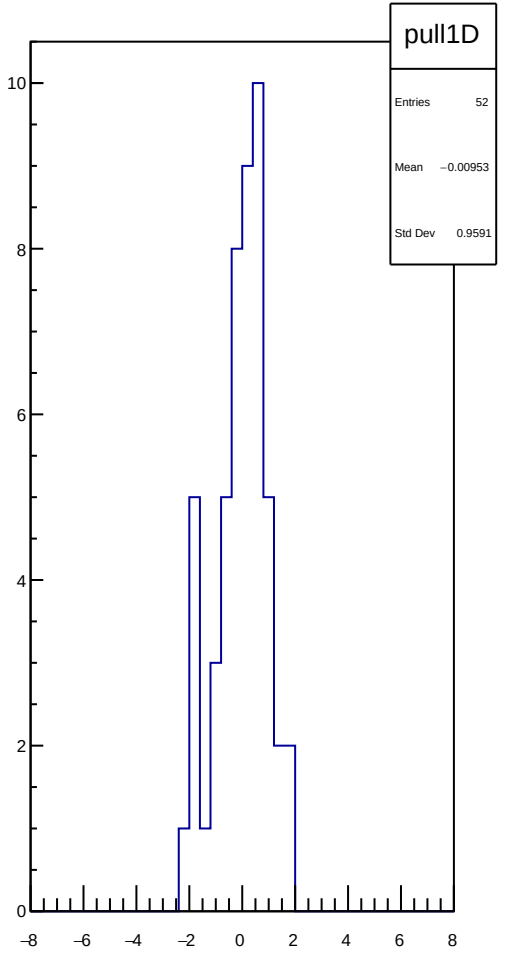
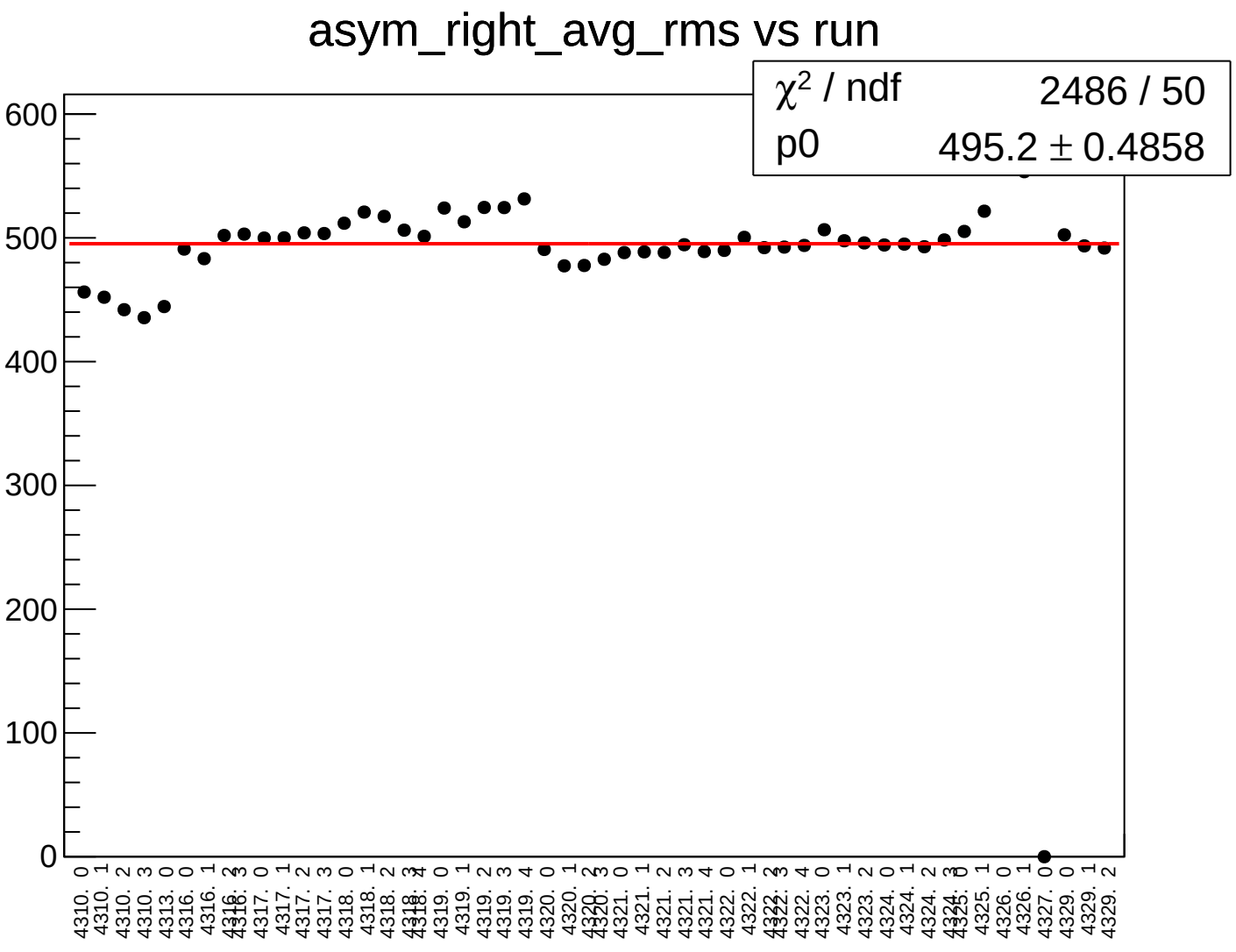
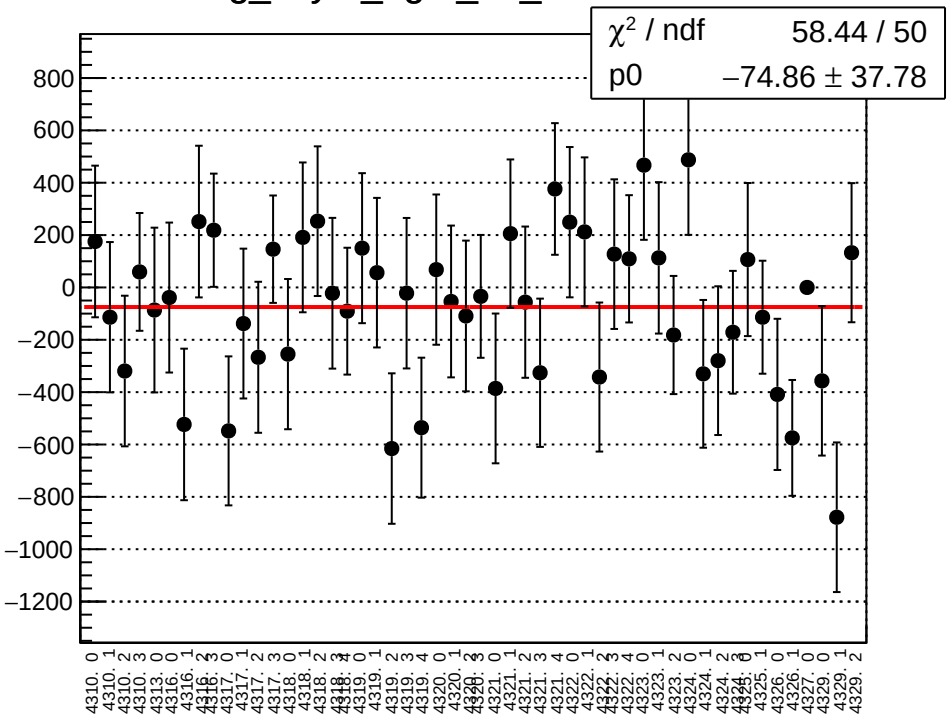
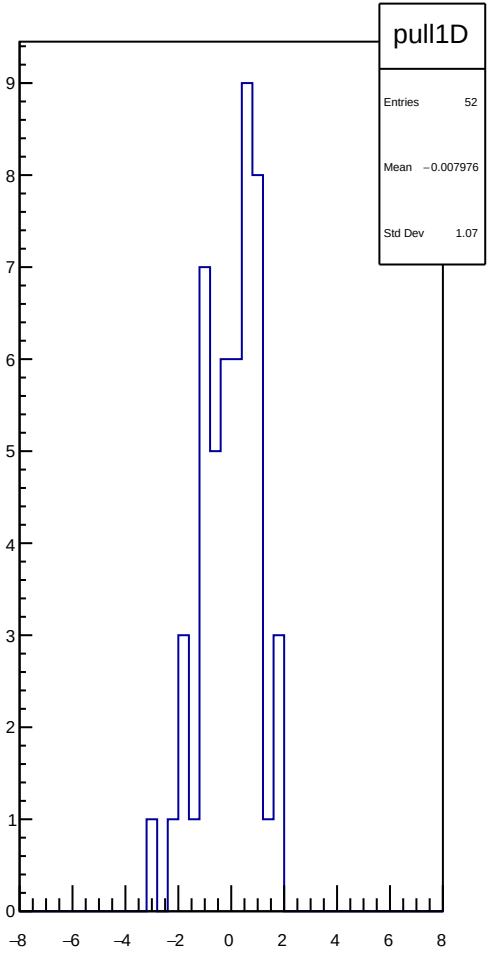
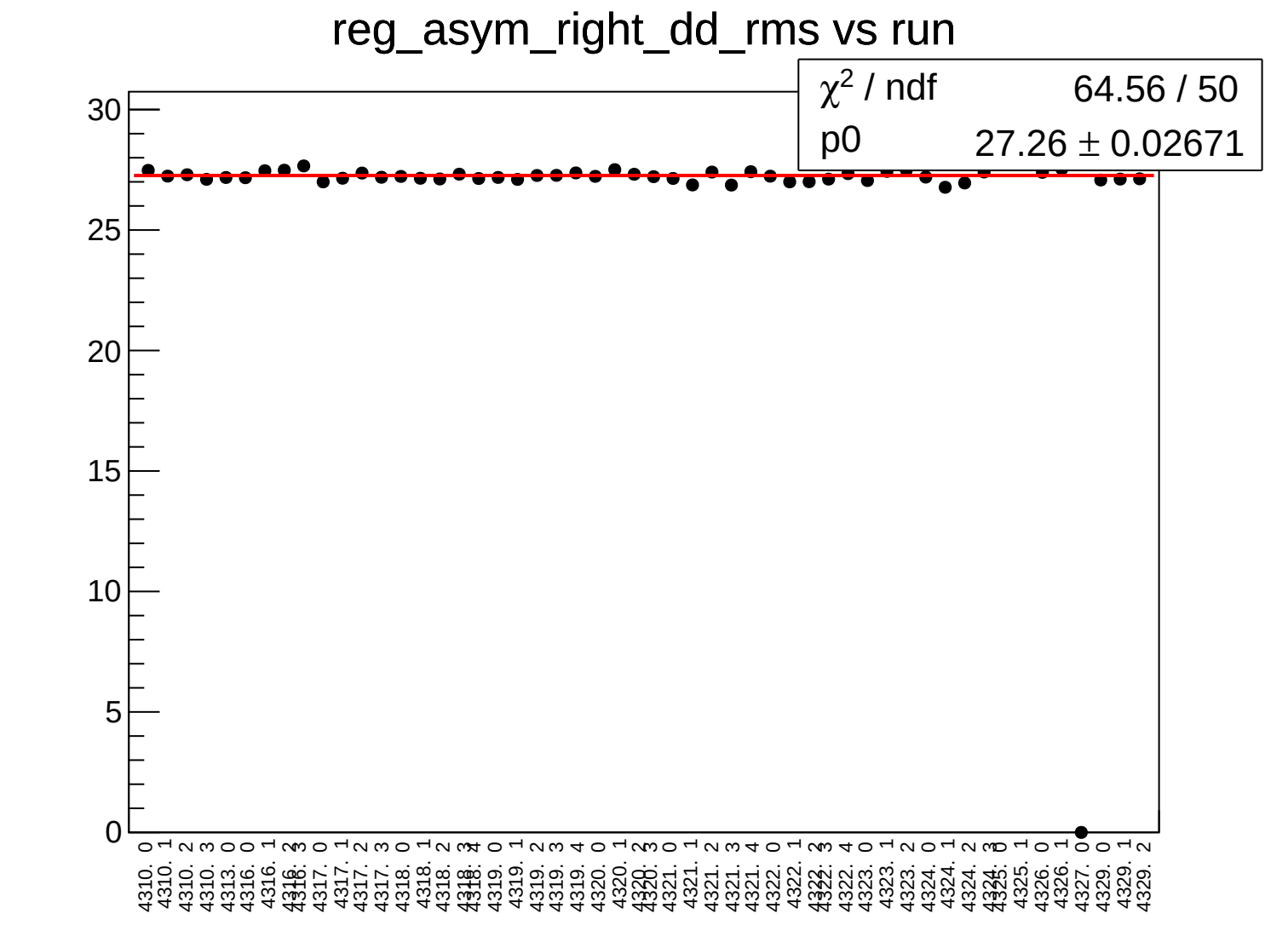
4329. 1
4329. 2

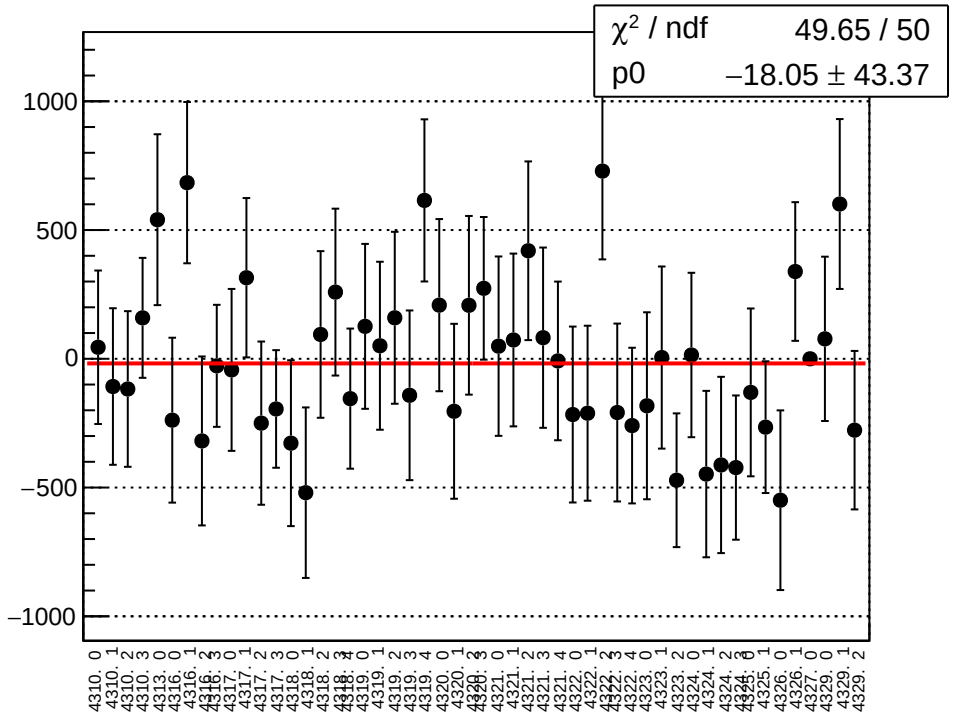

pull1D
Entries 52
Mean −0.00953
Std Dev 0.9591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

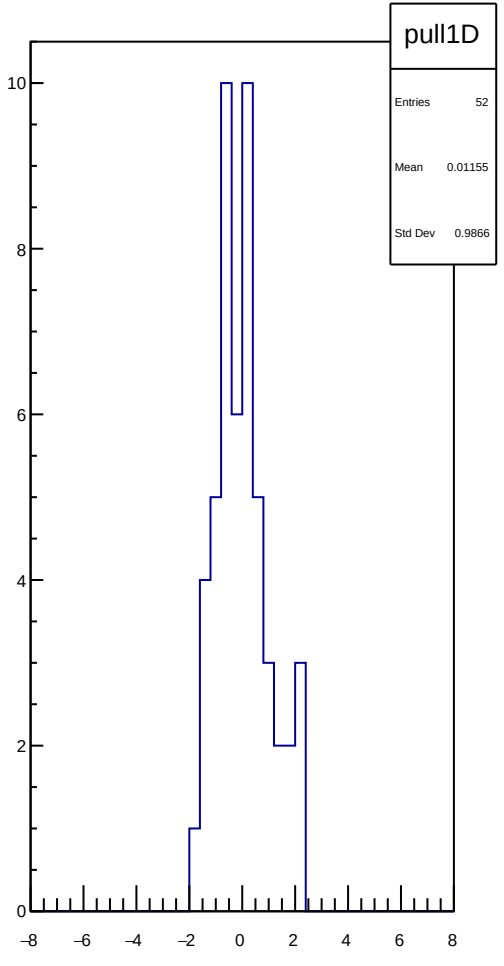

asym_right_avg_rms vs run
χ² / ndf 2486 / 50
p0 495.2 ± 0.4858
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

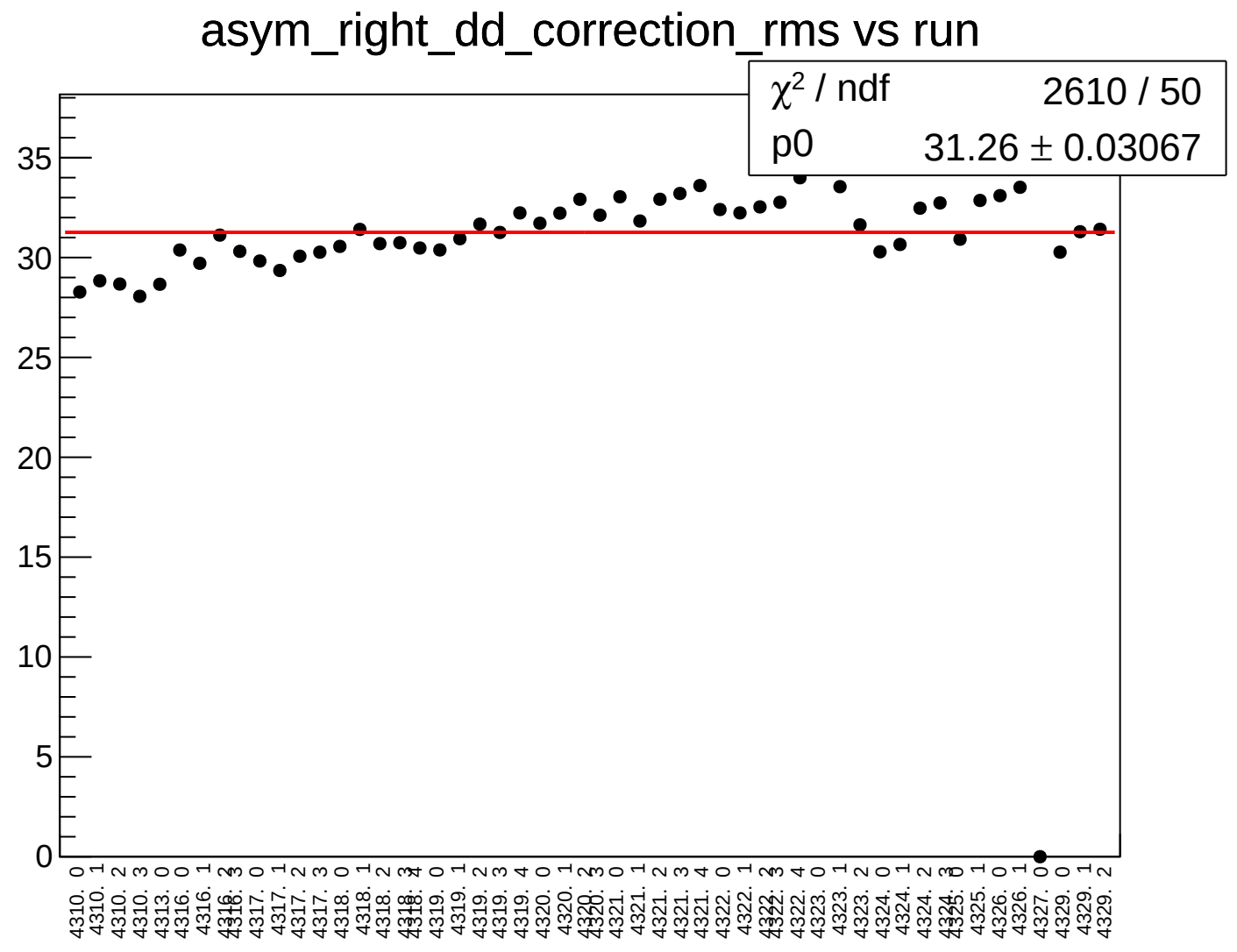

reg_asym_right_dd_mean vs run
χ² / ndf 58.44 / 50
p0 −74.86 ± 37.78
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

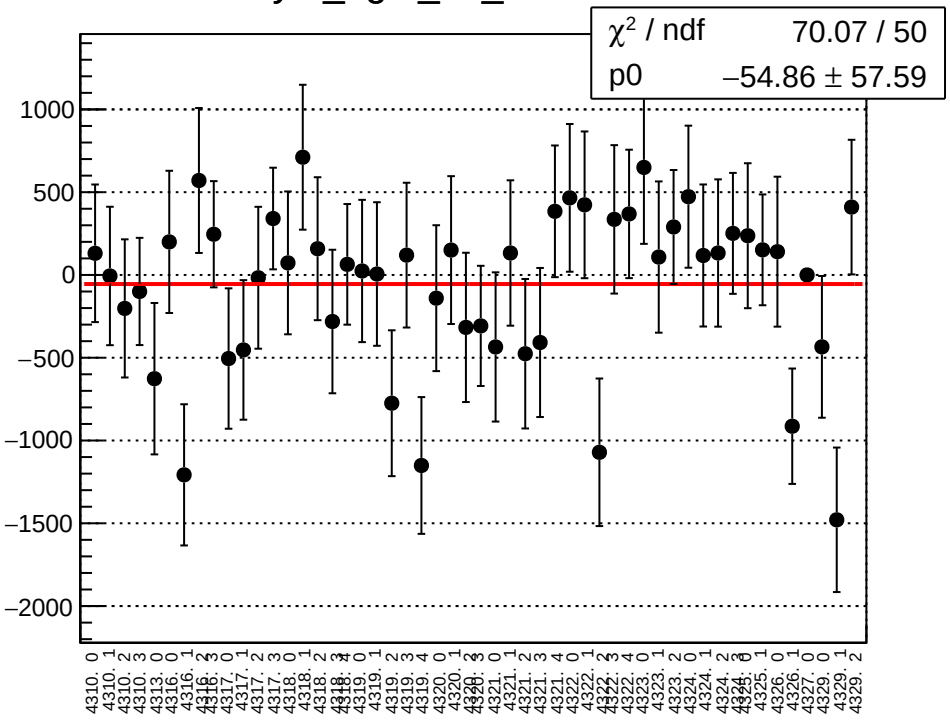

pull1D
Entries 52
Mean −0.007976
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

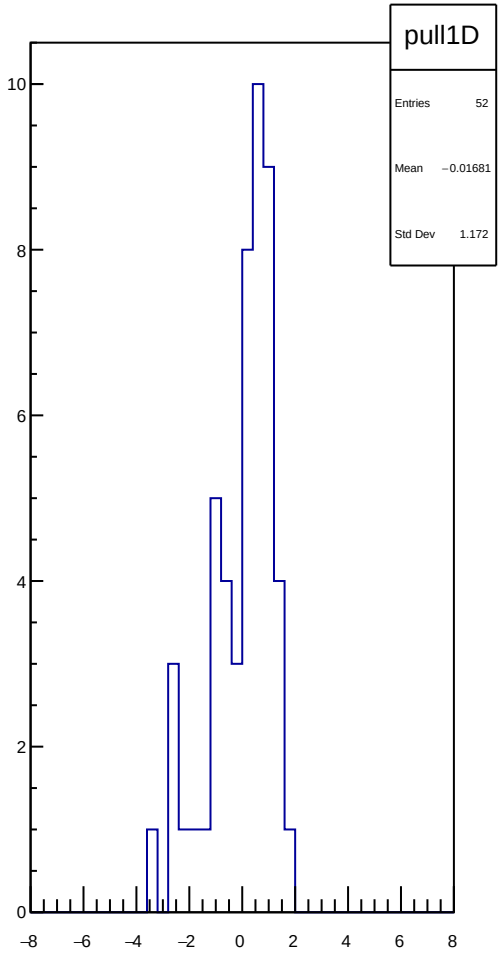

reg_asym_right_dd_rms vs run
χ² / ndf 64.56 / 50
p0 27.26 ± 0.02671
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

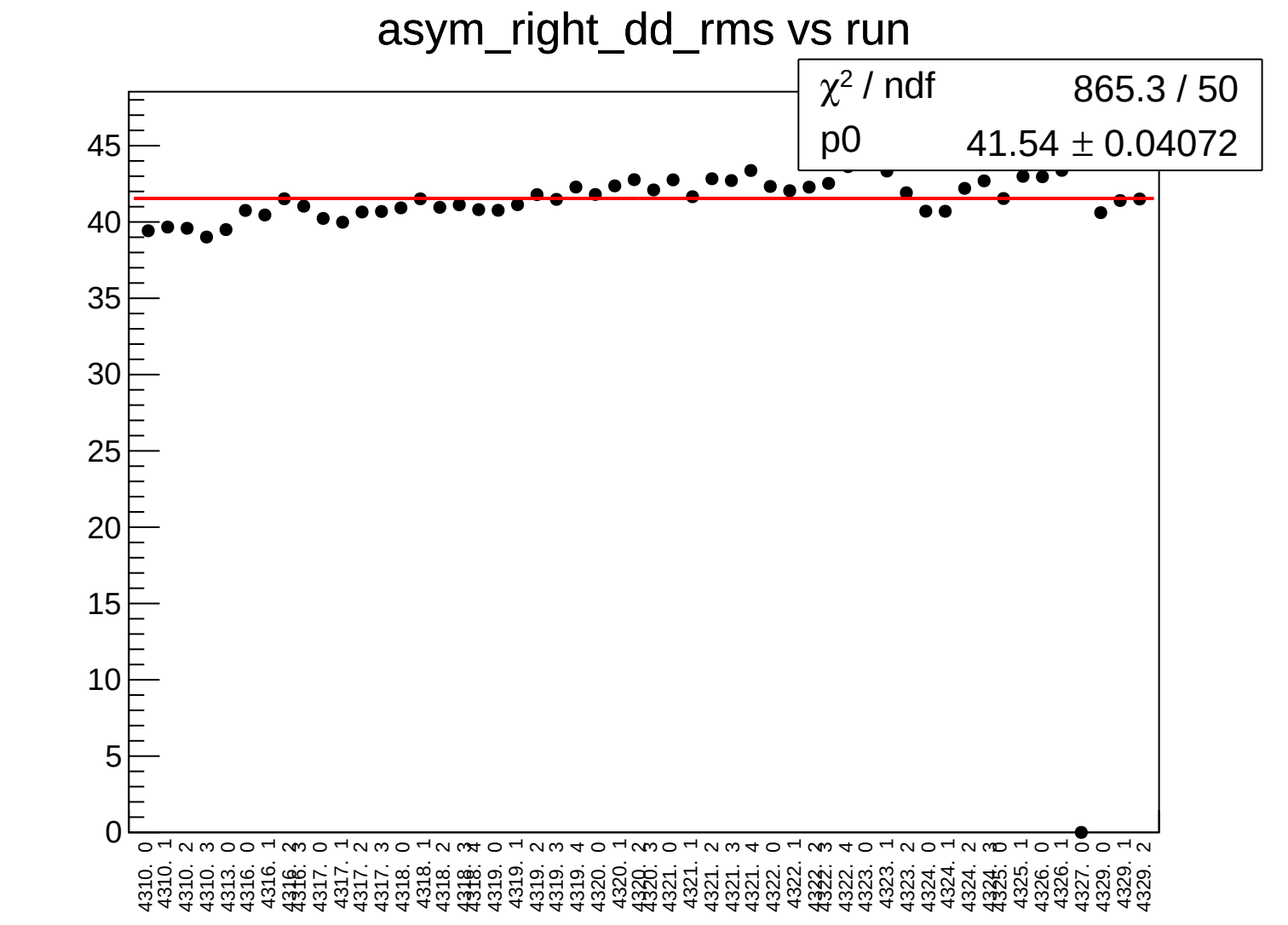

asym_right_dd_correction_mean vs run
χ² / ndf 49.65 / 50
p0 −18.05 ± 43.37
1000
500
0
−500
−1000

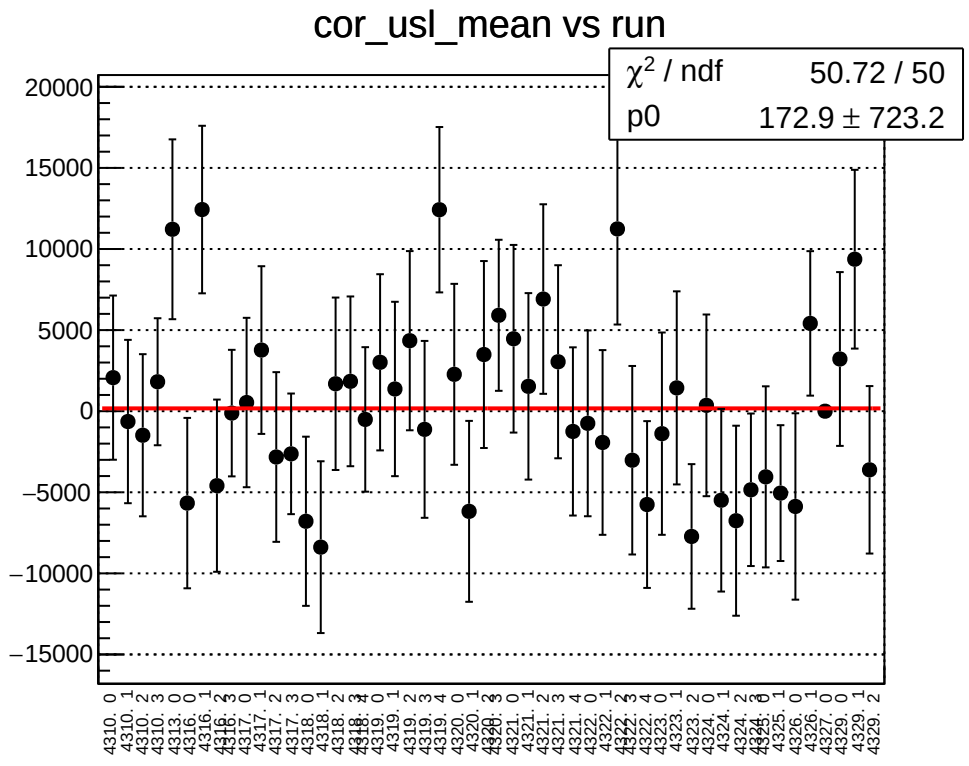

pull1D
Entries 52
Mean 0.01155
Std Dev 0.9866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

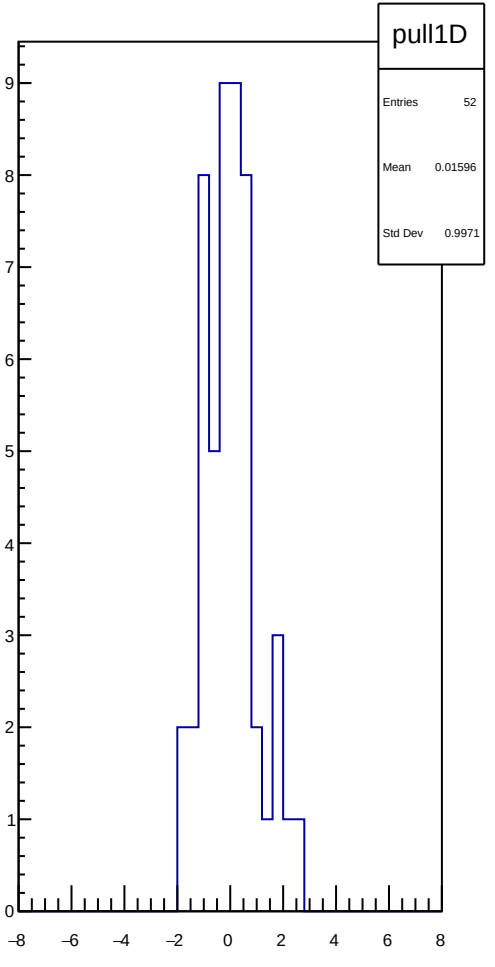

asym_right_dd_correction_rms vs run
χ² / ndf 2610 / 50
p0 31.26 ± 0.03067
35
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

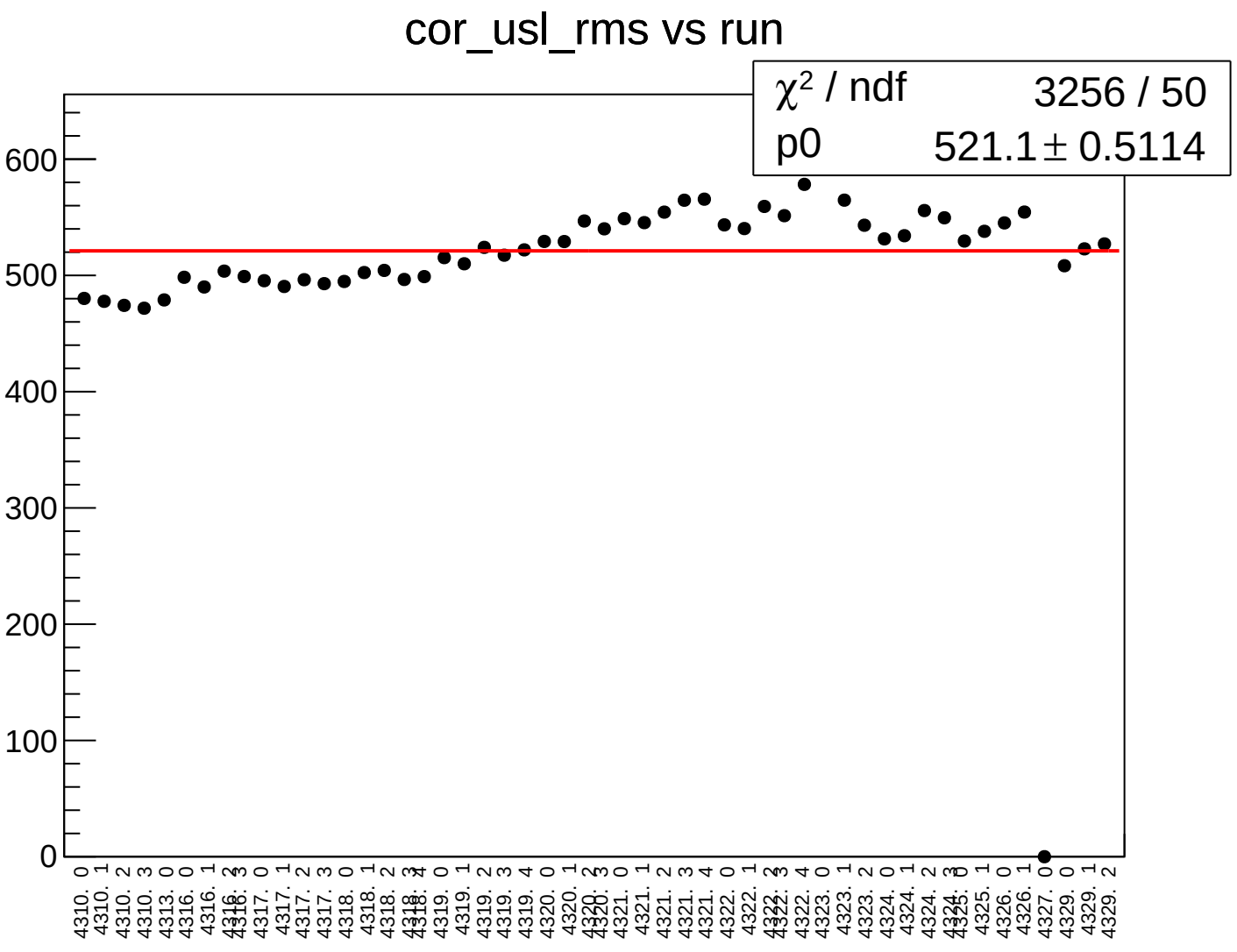

asym_right_dd_mean vs run
χ² / ndf 70.07 / 50
p0 −54.86 ± 57.59
1000
500
0
−500
−1000
−1500
−2000

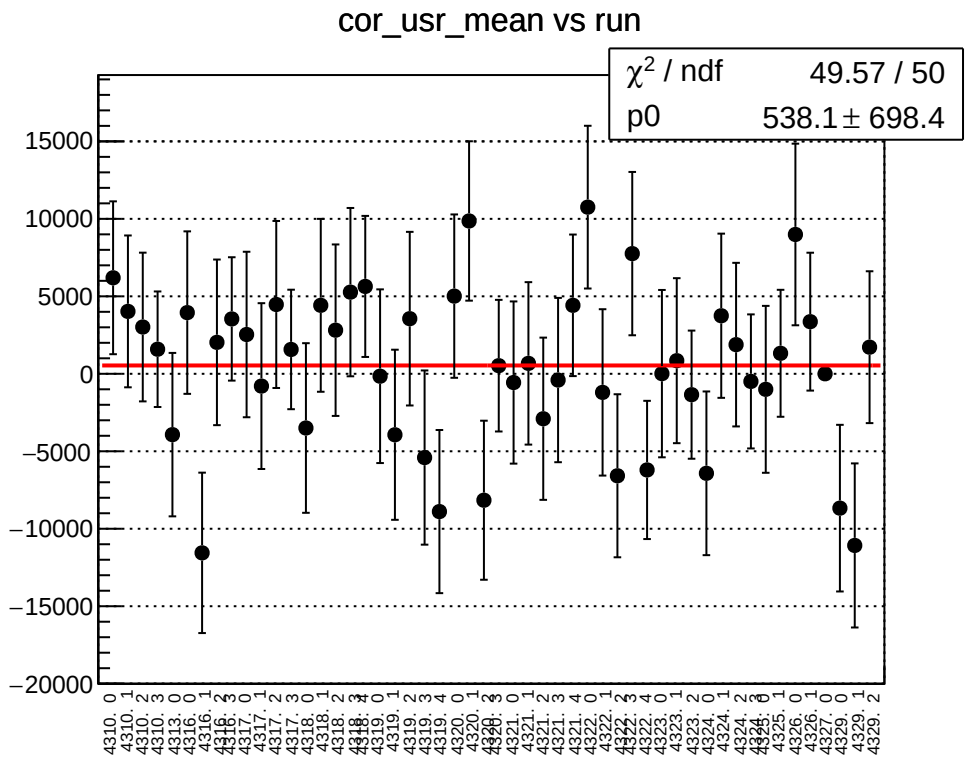

pull1D
Entries 52
Mean −0.01681
Std Dev 1.172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

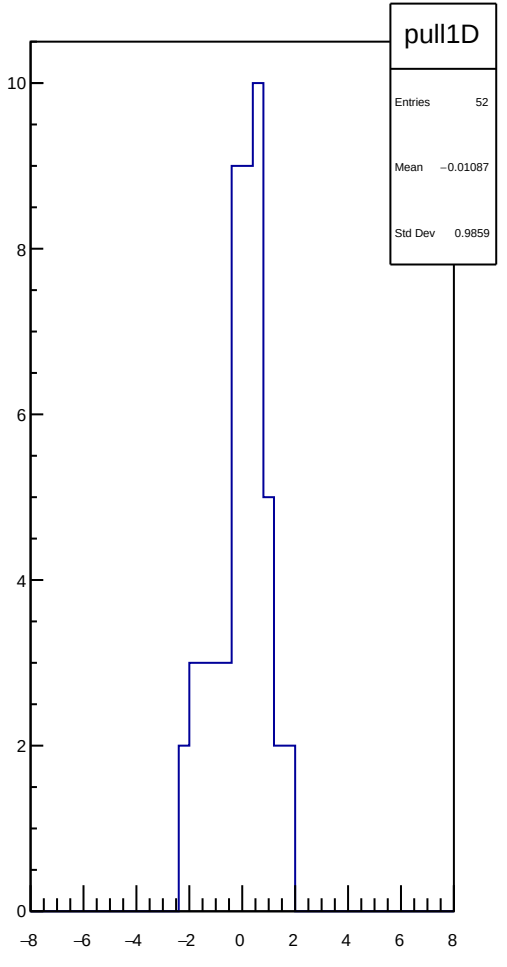

asym_right_dd_rms vs run
χ² / ndf 865.3 / 50
p0 41.54 ± 0.04072
45
40
35
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

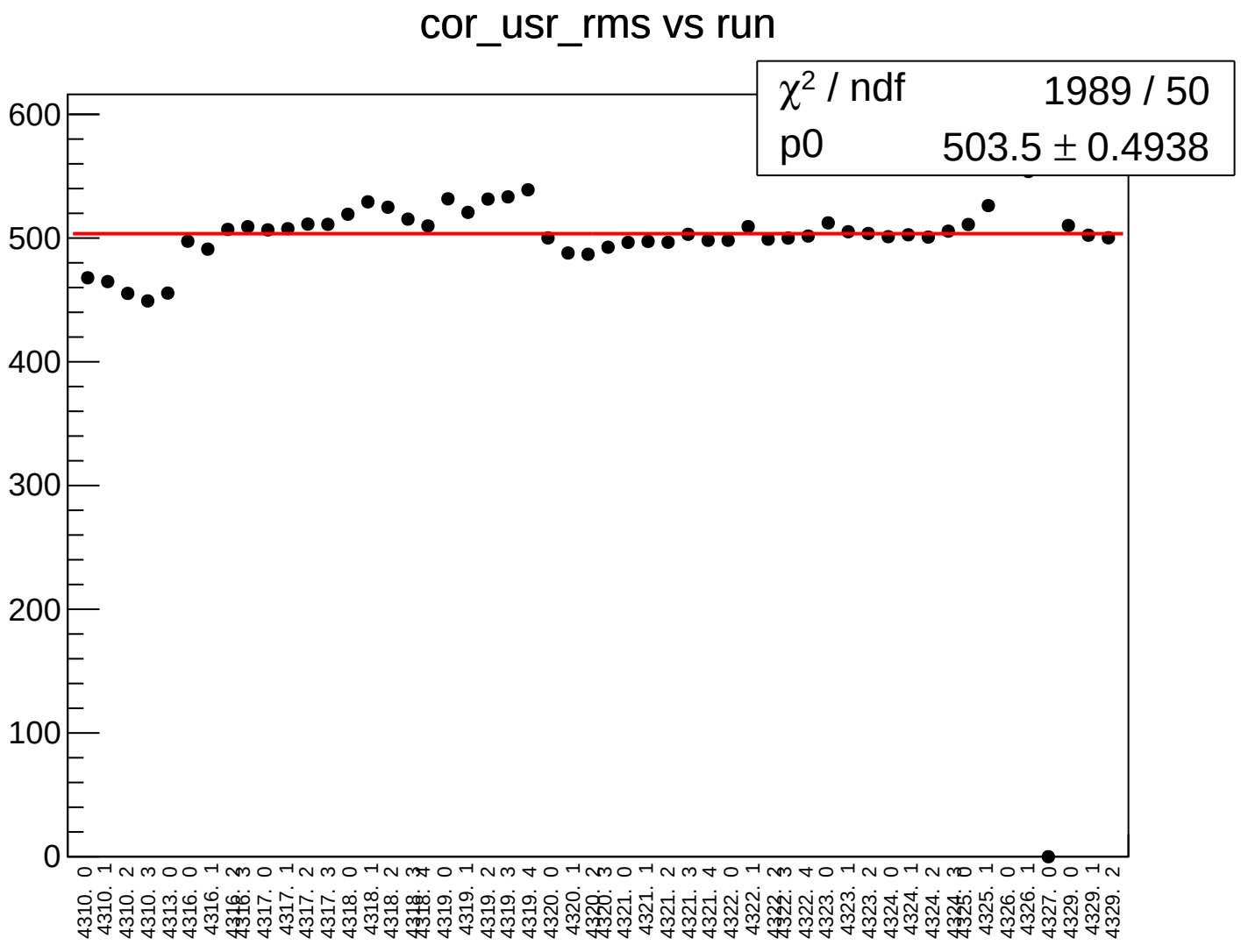

cor_usl_mean vs run
χ² / ndf 50.72 / 50
p0 172.9 ± 723.2
20000
15000
10000
5000
0
−5000
−10000
−15000

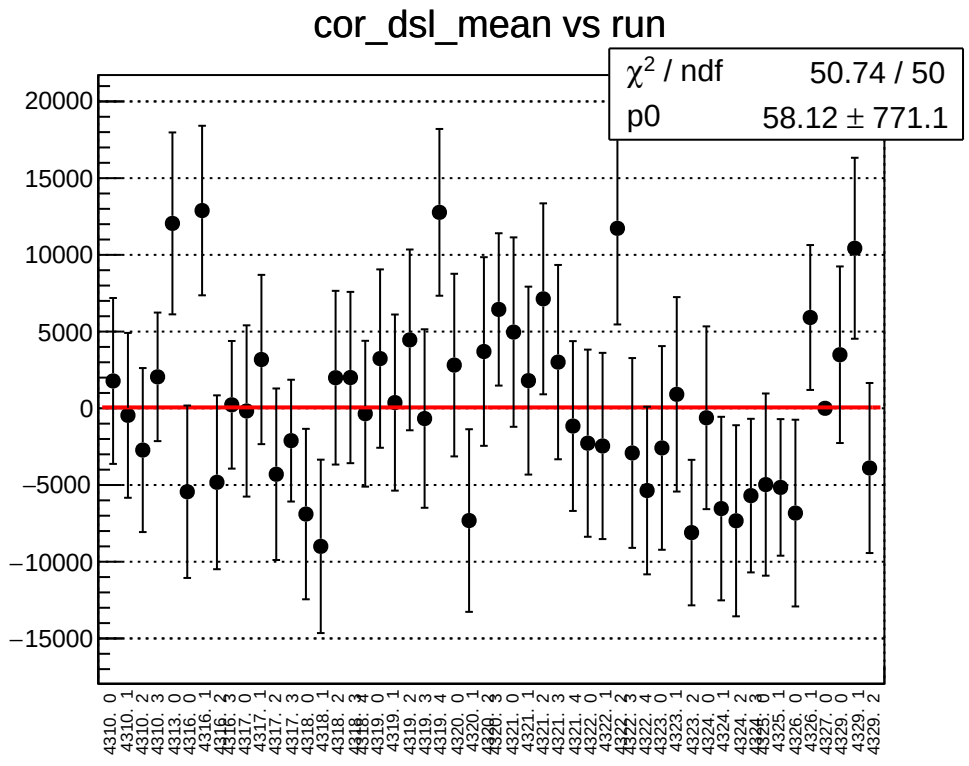

pull1D
Entries 52
Mean 0.01596
Std Dev 0.9971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

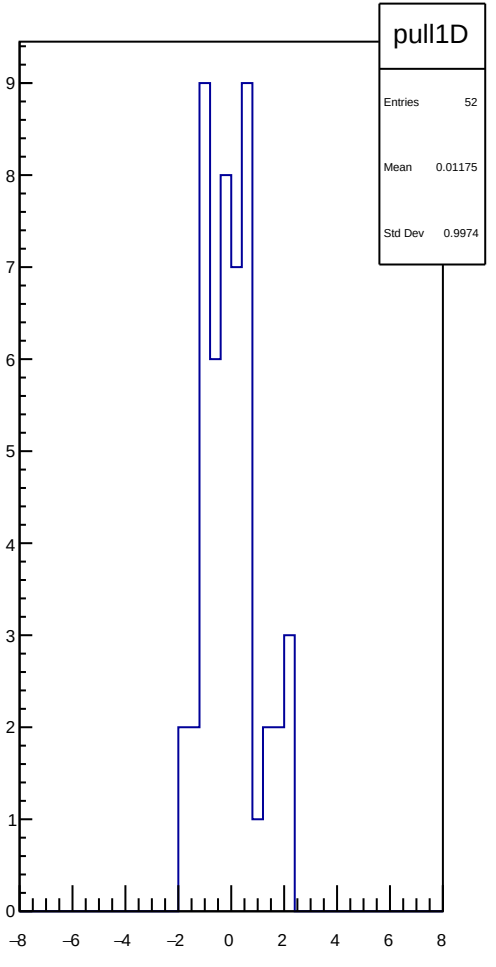

cor_usl_rms vs run
χ² / ndf 3256 / 50
p0 521.1 ± 0.5114
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

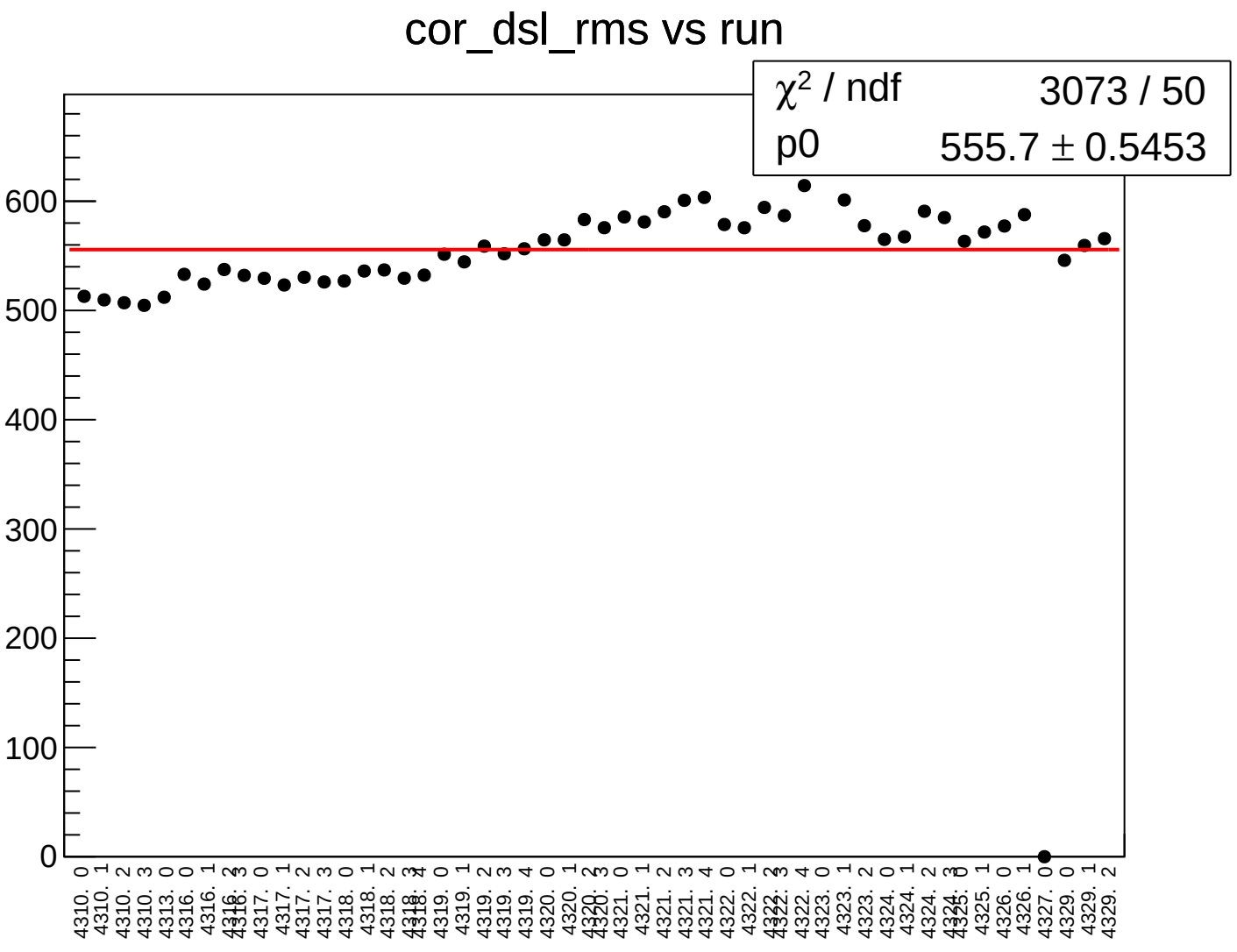

cor_usr_mean vs run
χ² / ndf 49.57 / 50
p0 538.1 ± 698.4
15000
10000
5000
0
−5000
−10000
−15000
−20000


pull1D
Entries 52
Mean −0.01087
Std Dev 0.9859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_usr_rms vs run
χ² / ndf 1989 / 50
p0 503.5 ± 0.4938
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


cor_dsl_mean vs run
χ² / ndf 50.74 / 50
p0 58.12 ± 771.1
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.01175
Std Dev 0.9974
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsl_rms vs run
χ² / ndf 3073 / 50
p0 555.7 ± 0.5453
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
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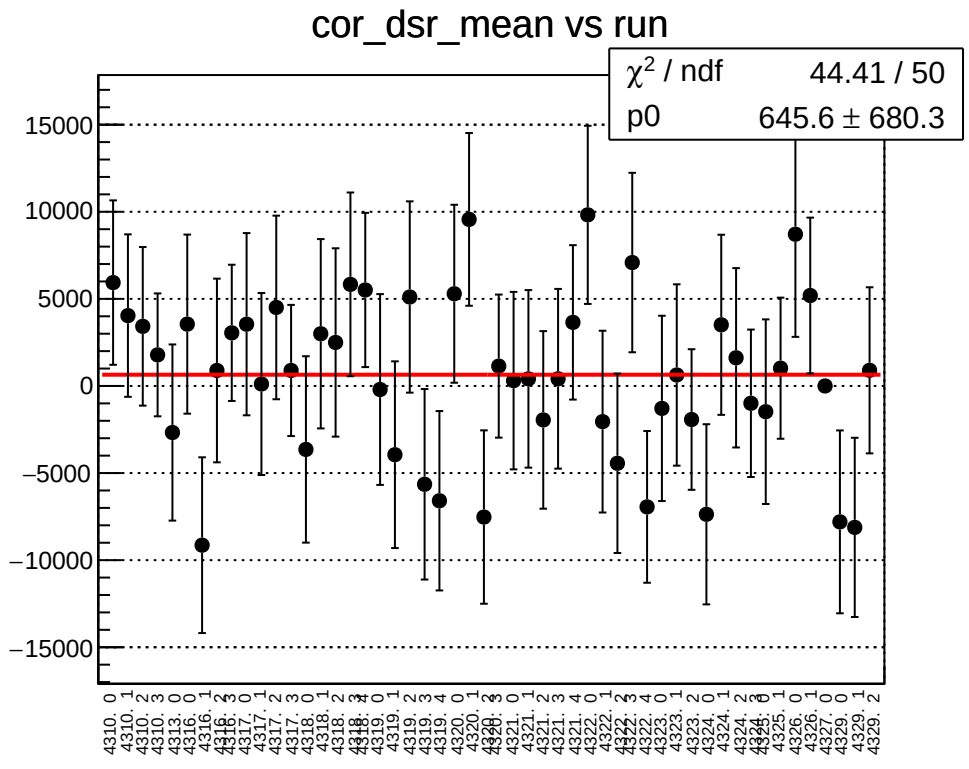
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


cor_dsr_mean vs run
χ² / ndf 44.41 / 50
p0 645.6 ± 680.3
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
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4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
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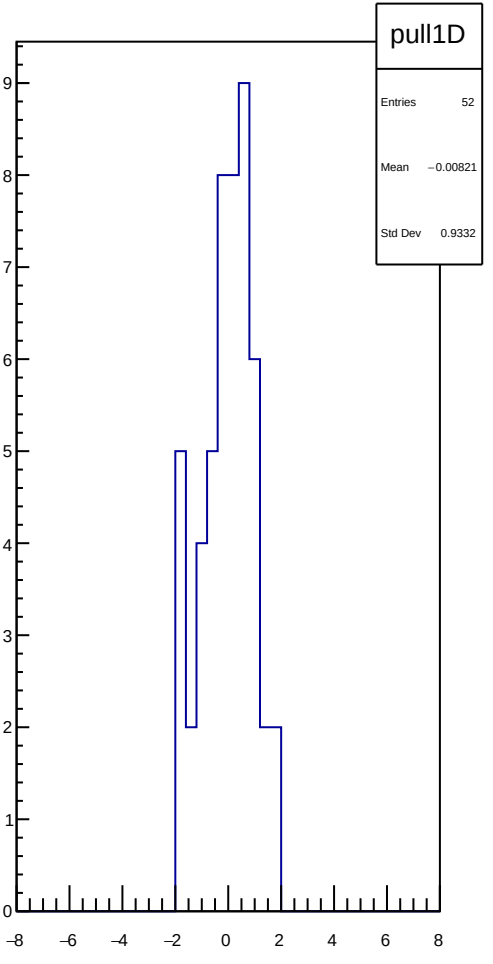
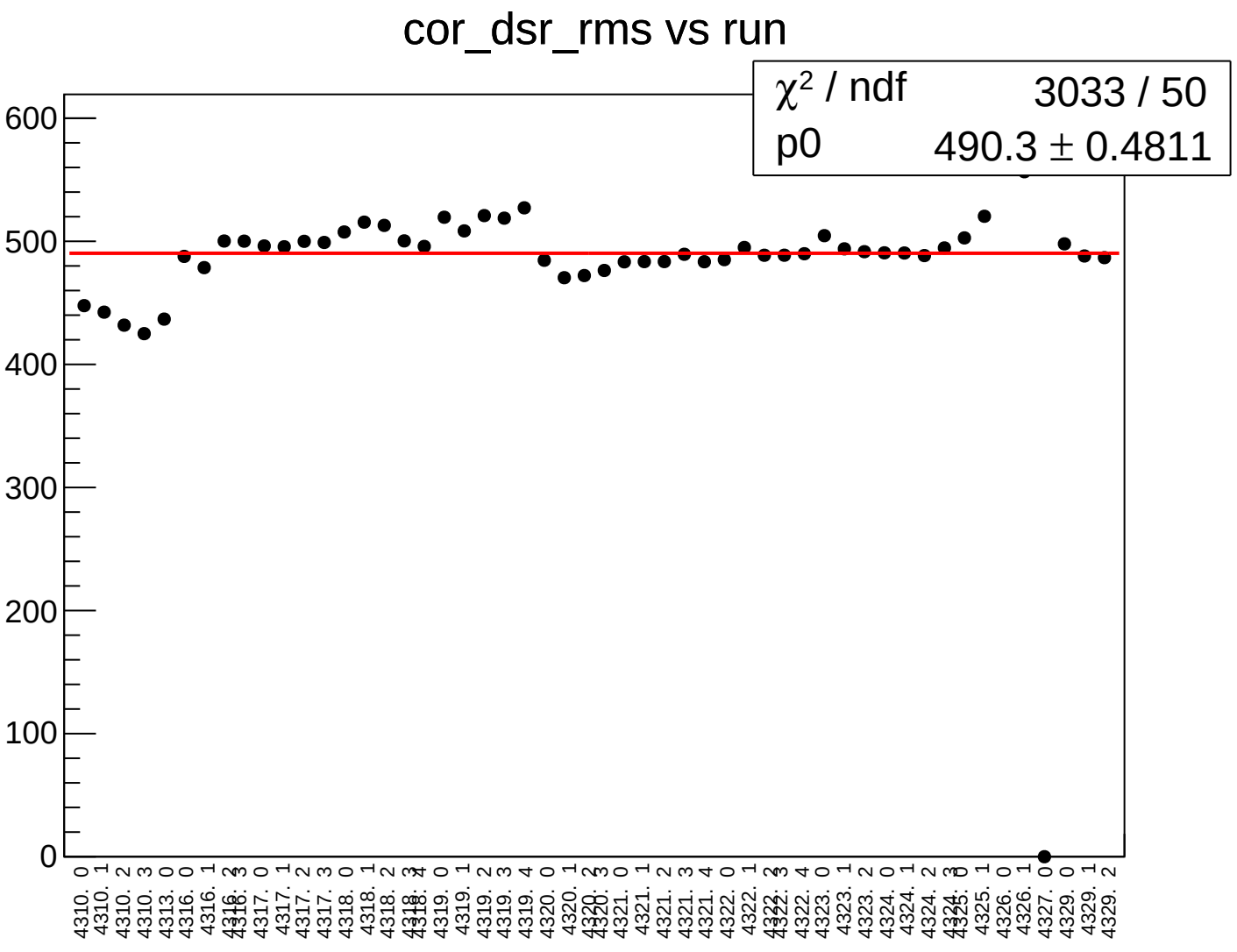
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.00821
Std Dev 0.9332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsr_rms vs run
χ² / ndf 3033 / 50
p0 490.3 ± 0.4811
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
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4319. 0
4319. 1
4319. 2
4319. 3
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4321. 2
4321. 3
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4322. 1
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4323. 0
4323. 1
4323. 2
4324. 0
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4324. 2
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4326. 1
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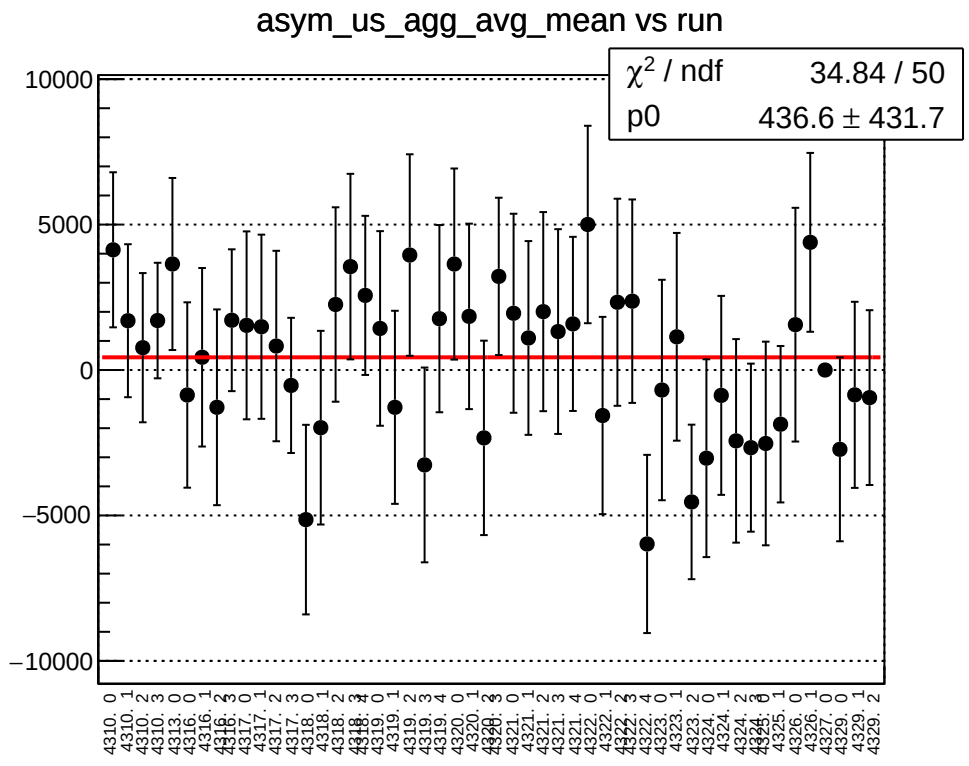
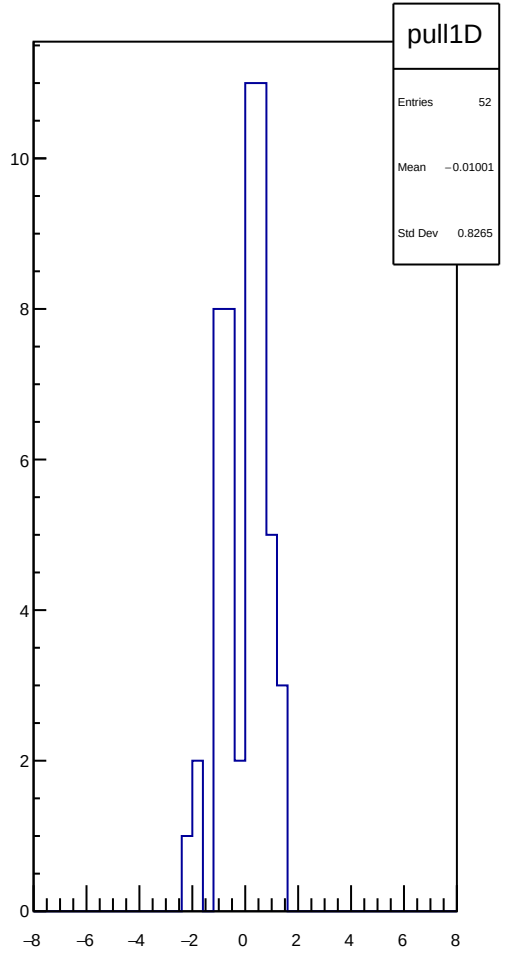
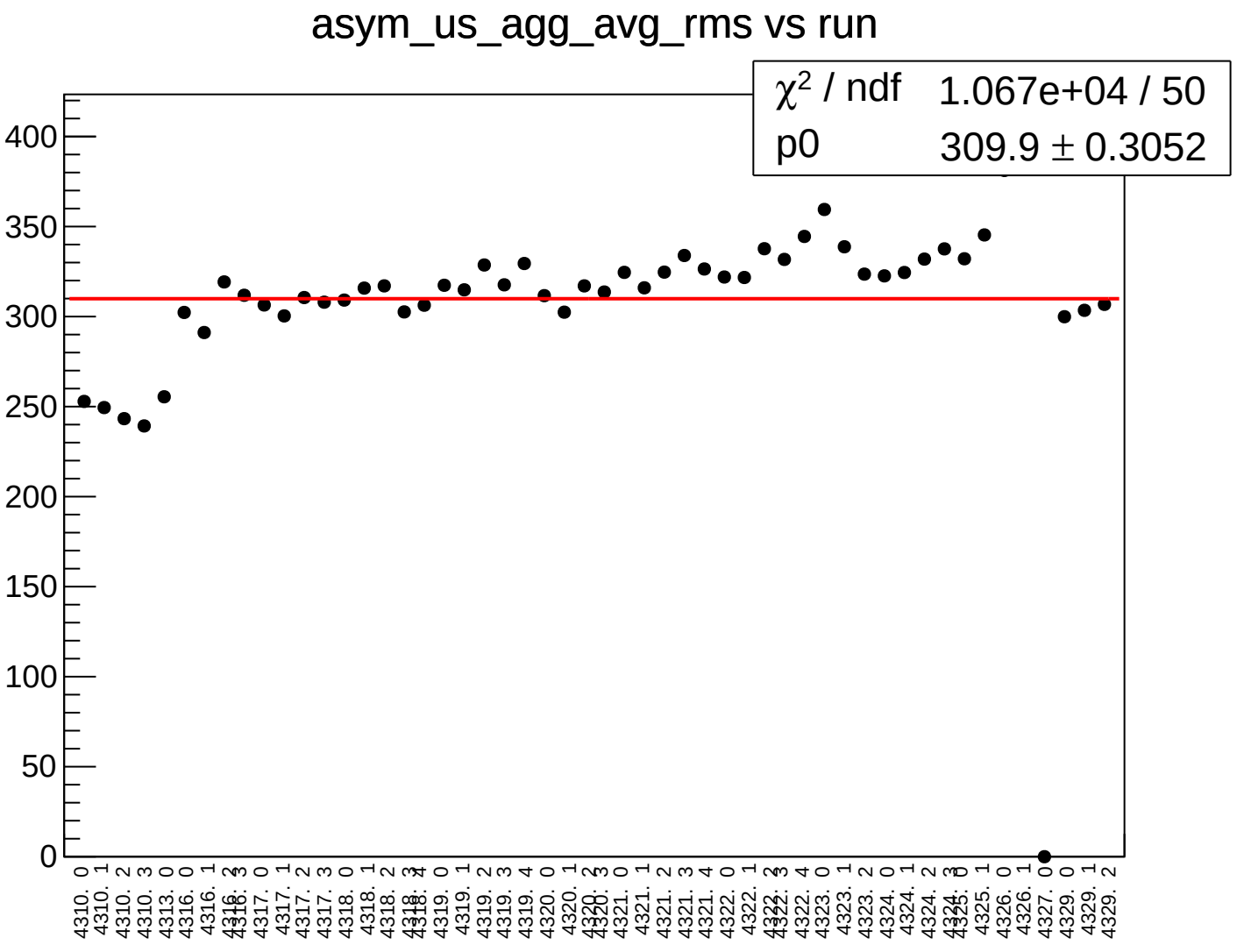
4329. 1
4329. 2


asym_us_agg_avg_mean vs run
χ² / ndf 34.84 / 50
p0 436.6 ± 431.7
10000
5000
0
−5000
−10000


pull1D
Entries 52
Mean −0.01001
Std Dev 0.8265
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_avg_rms vs run
χ² / ndf 1.067e+04 / 50
p0 309.9 ± 0.3052
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
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4319. 2
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4321. 1
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4322. 1
4322. 2
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4323. 2
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4324. 1
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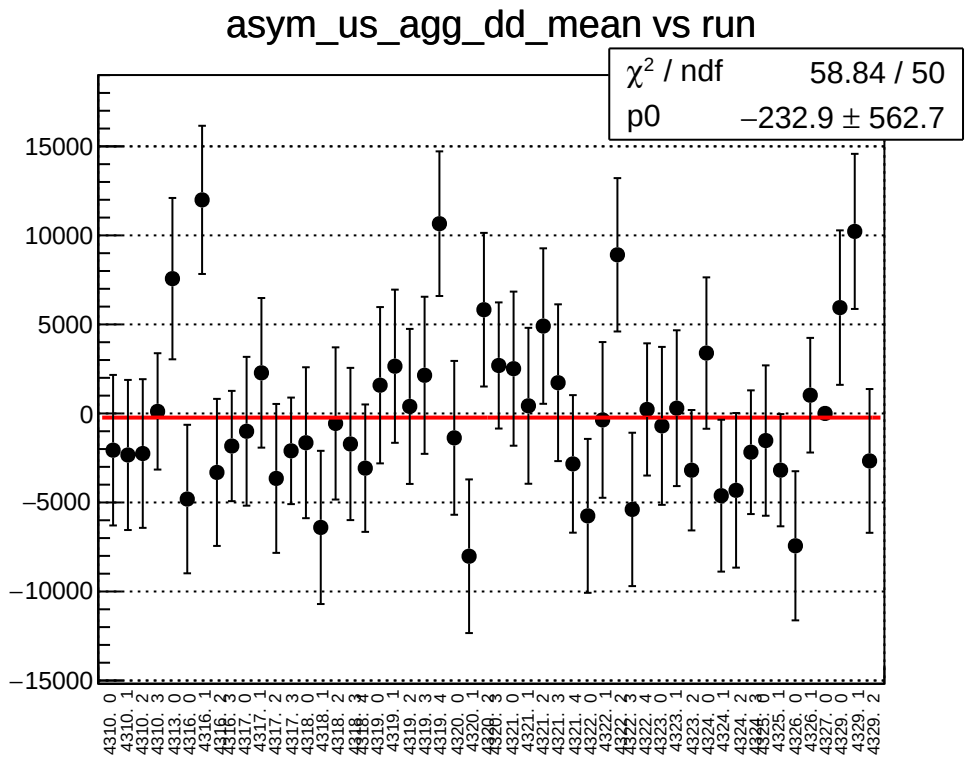
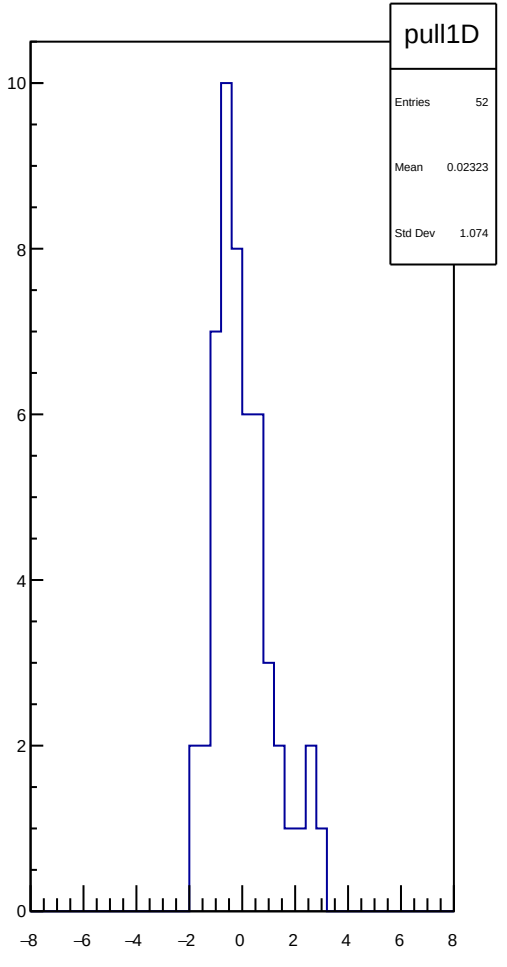
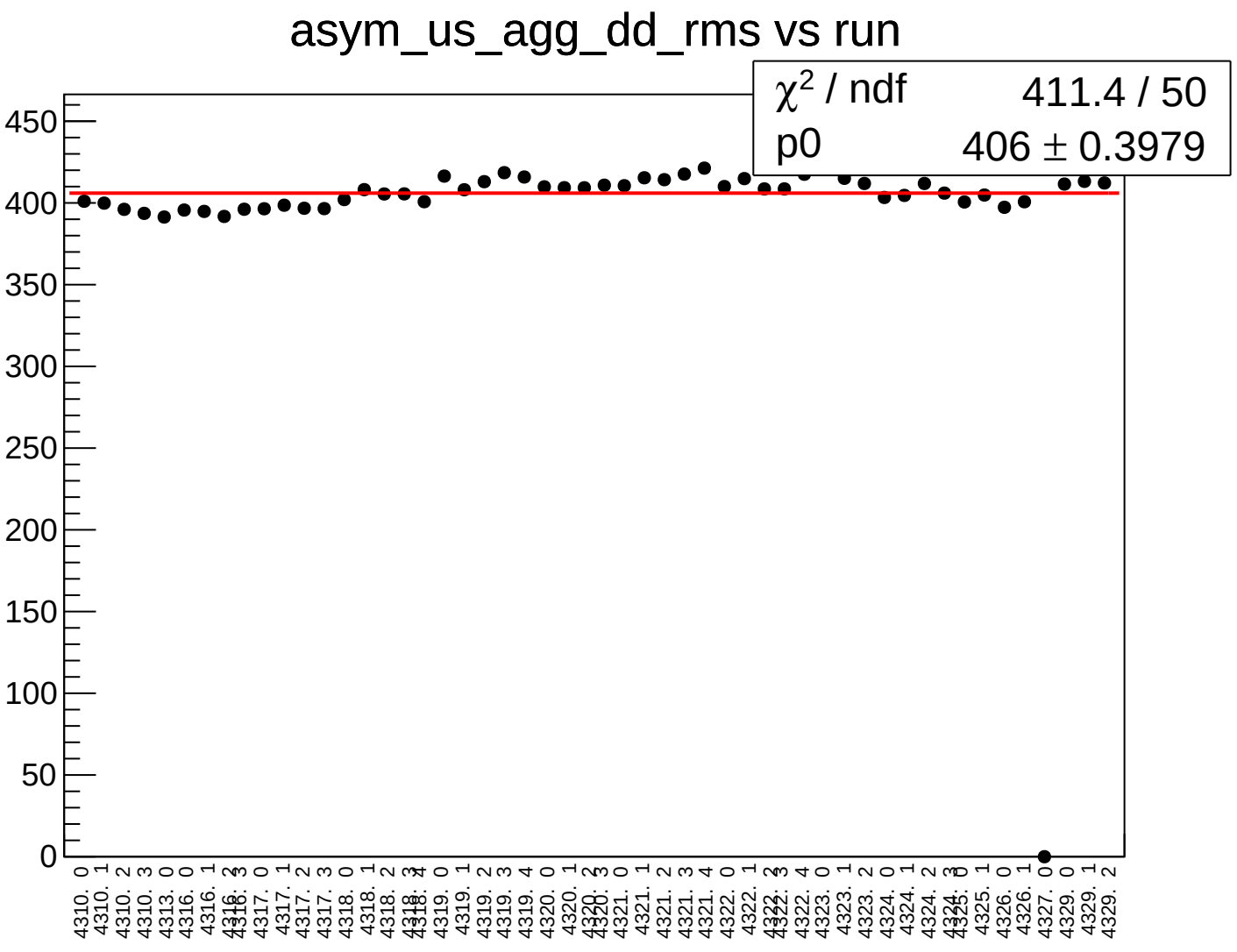
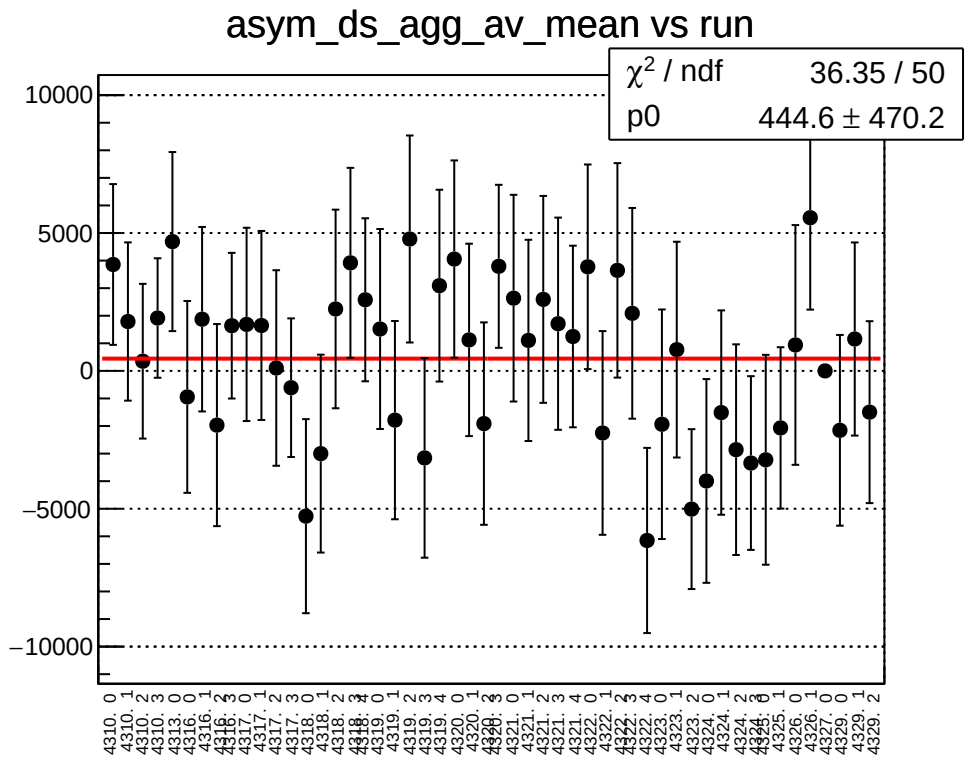
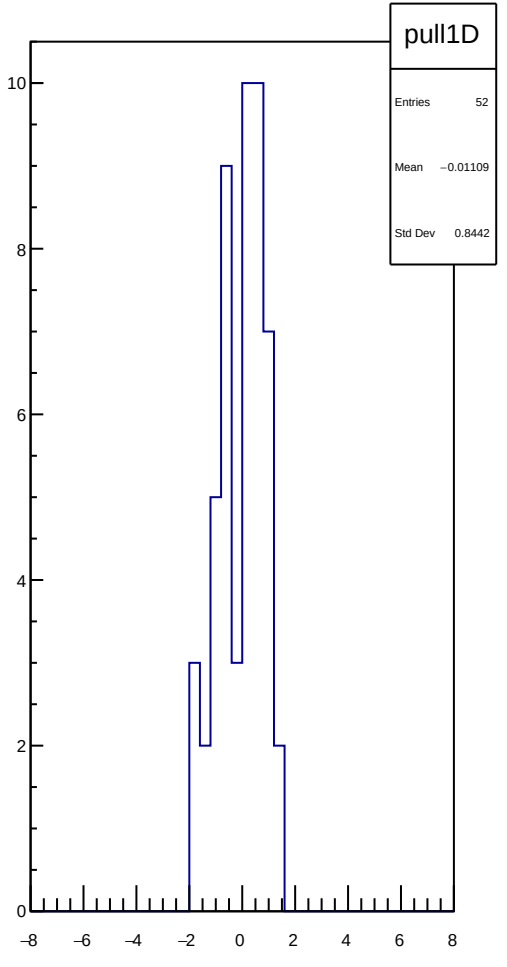
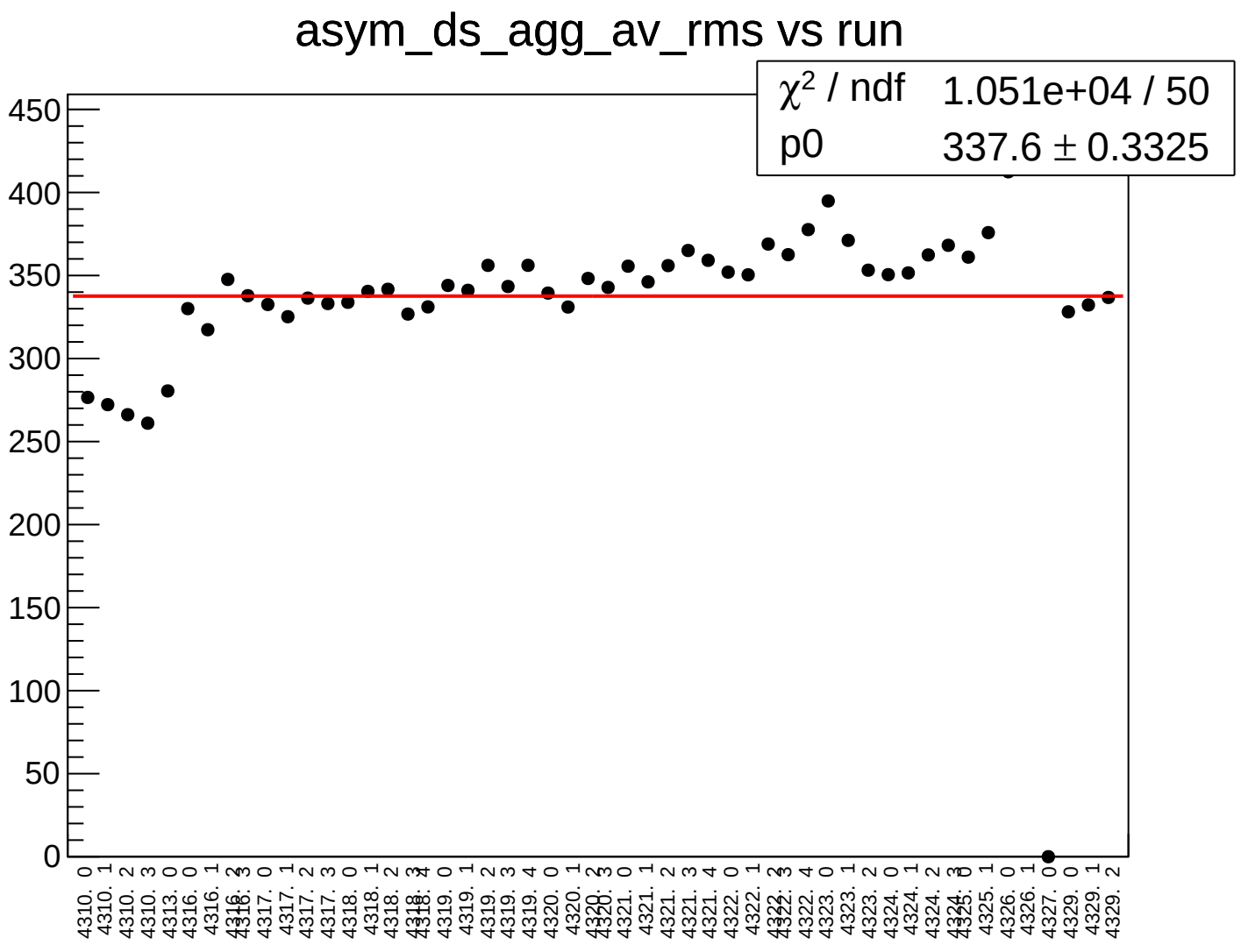

asym_us_agg_dd_mean vs run
χ² / ndf 58.84 / 50
p0 −232.9 ± 562.7
15000
10000
5000
0
−5000
−10000
−15000

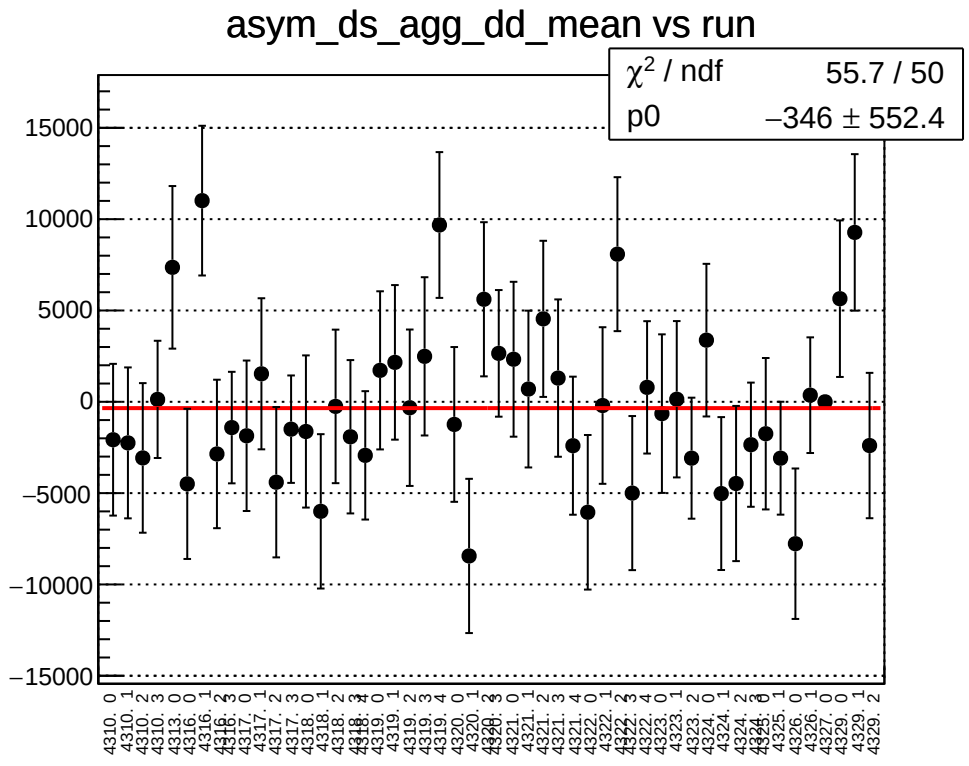

pull1D
Entries 52
Mean 0.02323
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

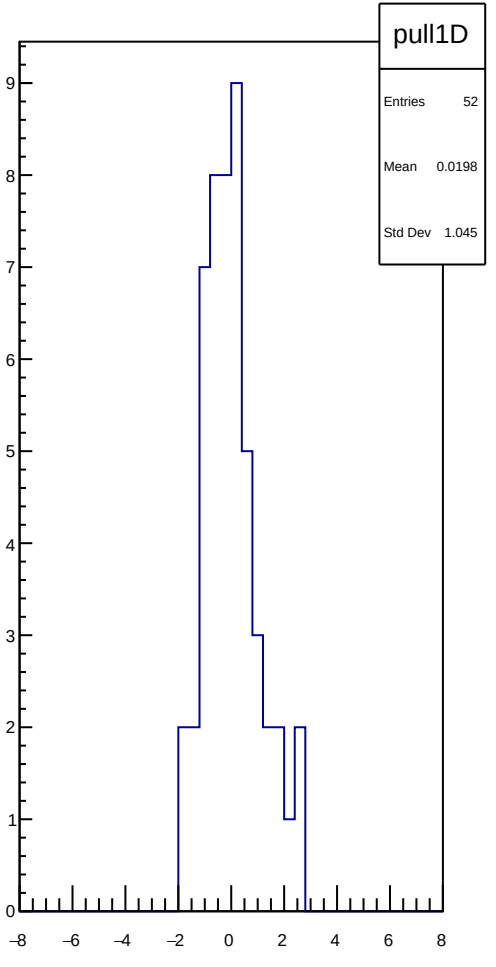

asym_us_agg_dd_rms vs run
χ² / ndf 411.4 / 50
p0 406 ± 0.3979
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

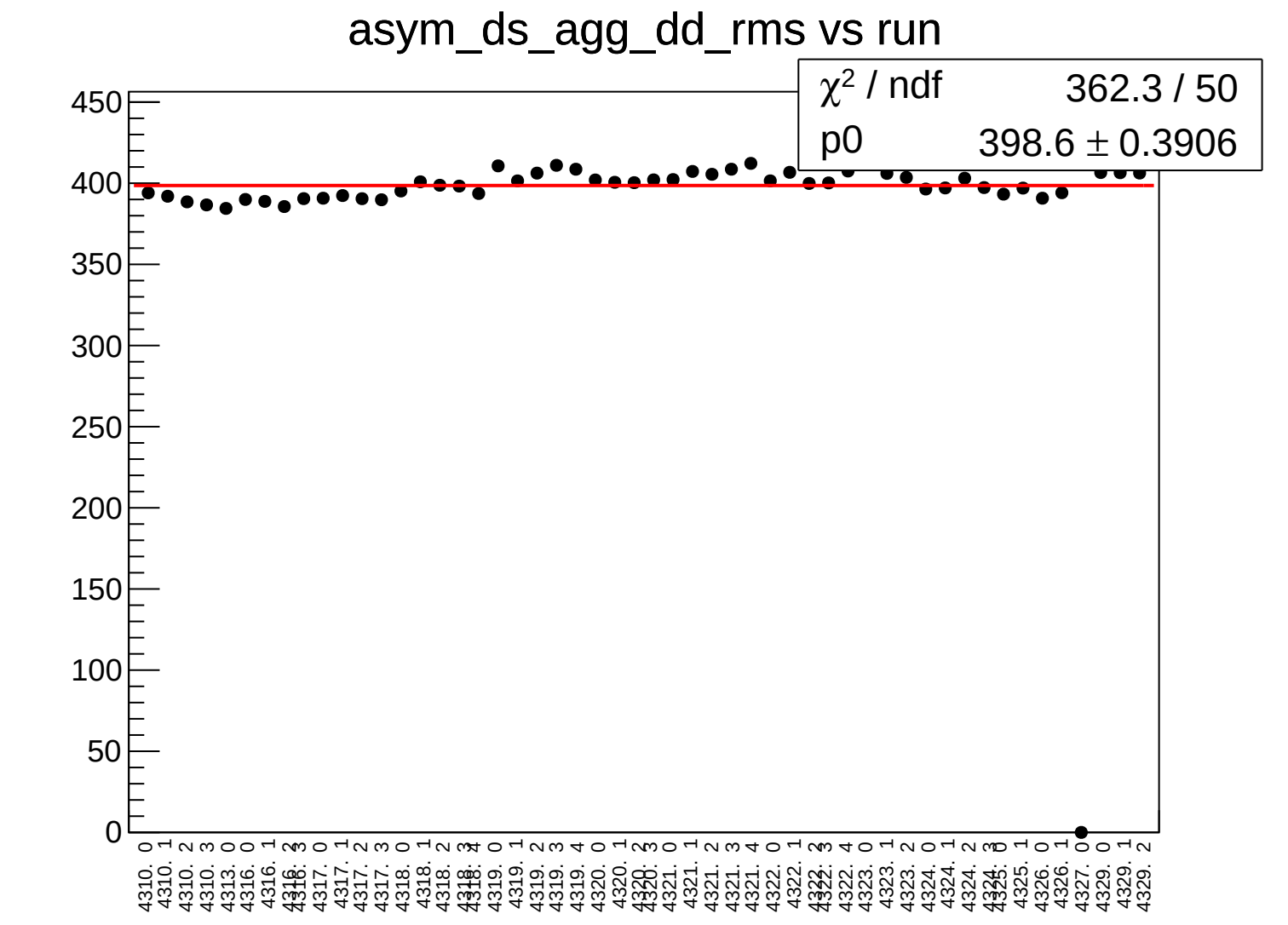

asym_ds_agg_av_mean vs run
χ² / ndf 36.35 / 50
p0 444.6 ± 470.2
10000
5000
0
−5000
−10000

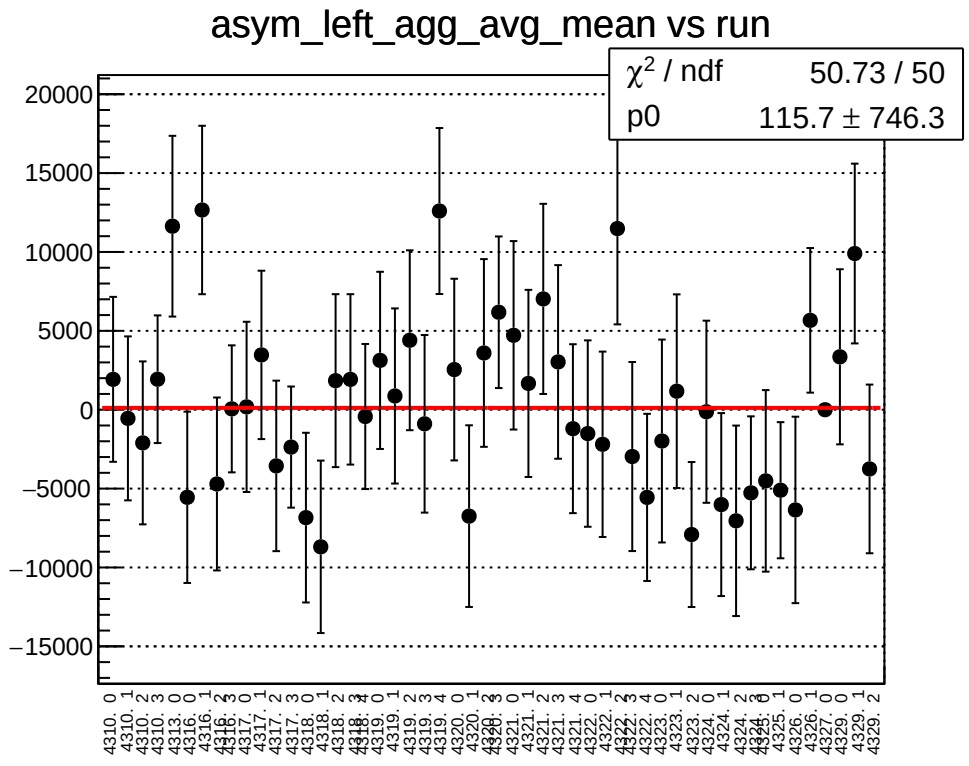

pull1D
Entries 52
Mean −0.01109
Std Dev 0.8442
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

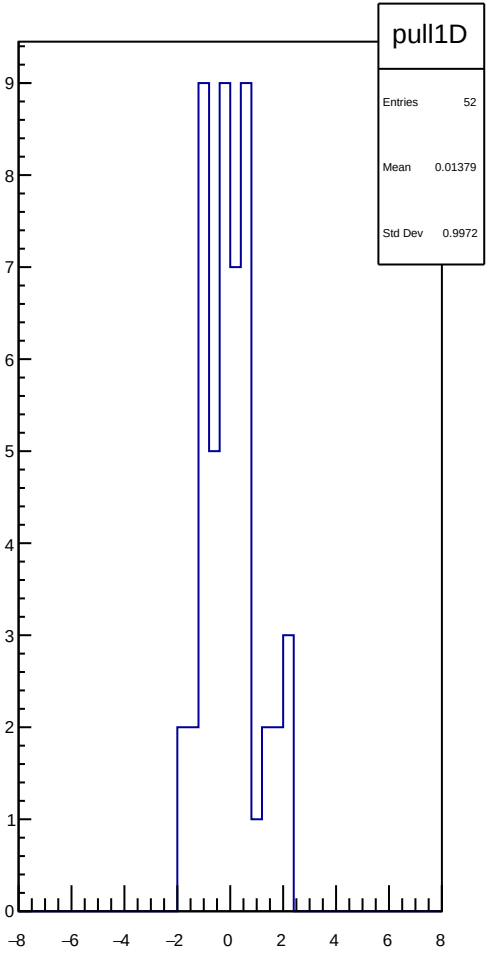

asym_ds_agg_av_rms vs run
χ^2 / ndf 1.051e+04 / 50
p0 337.6 ± 0.3325
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

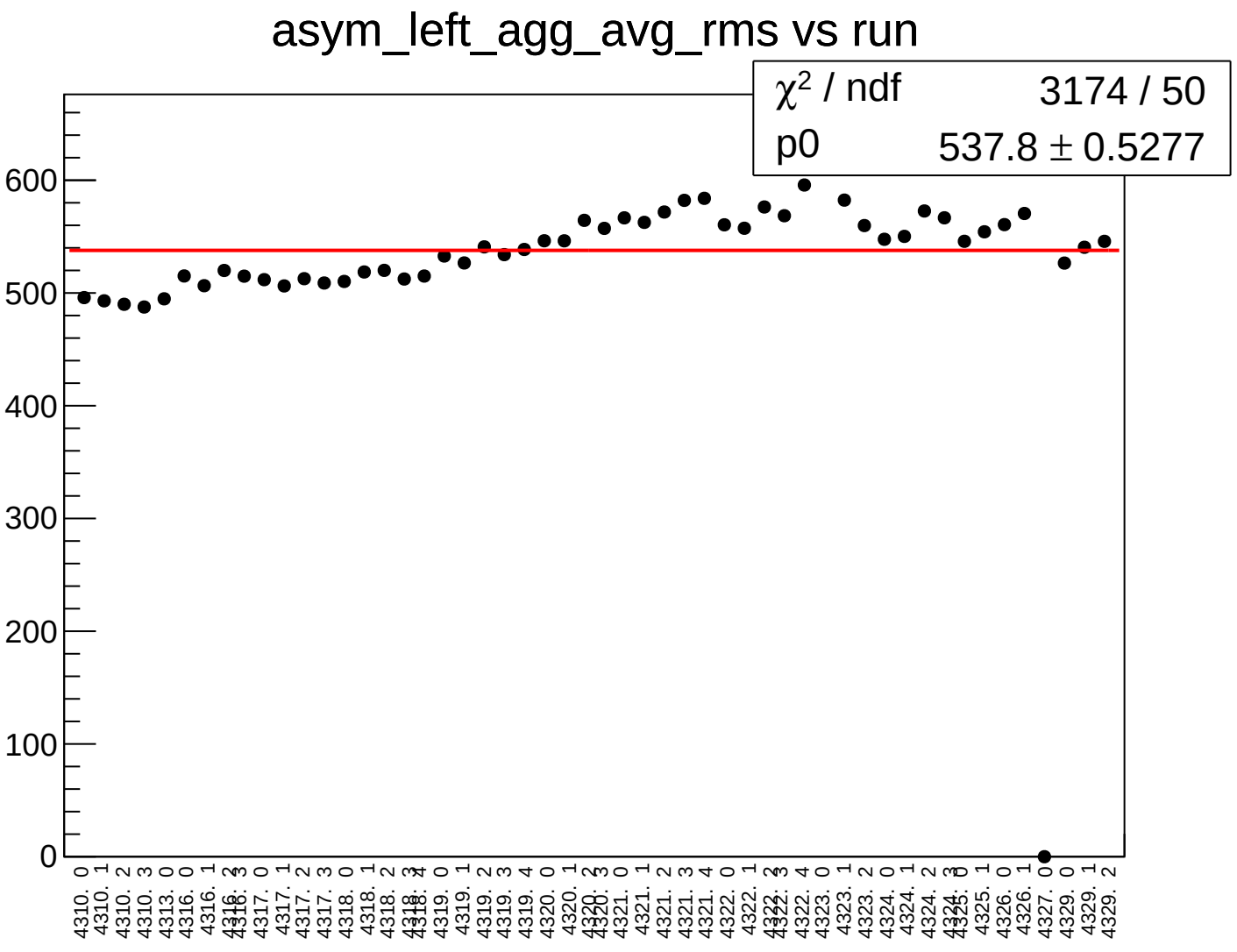

asym_ds_agg_dd_mean vs run
χ² / ndf 55.7 / 50
p0 −346 ± 552.4
15000
10000
5000
0
−5000
−10000
−15000

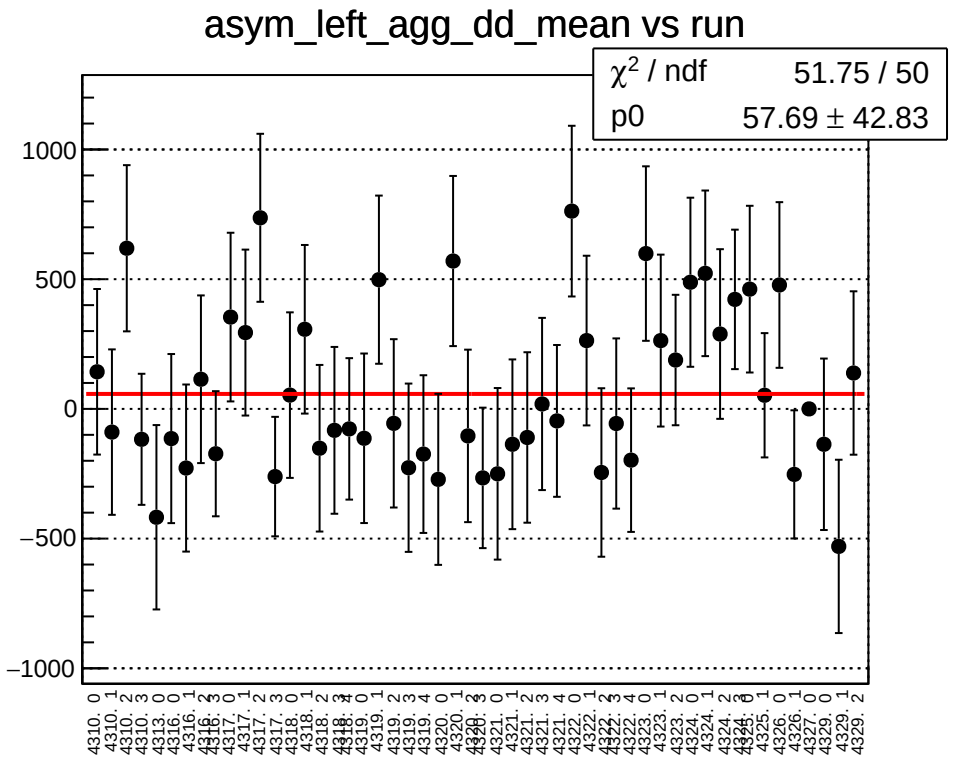

pull1D
Entries 52
Mean 0.0198
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

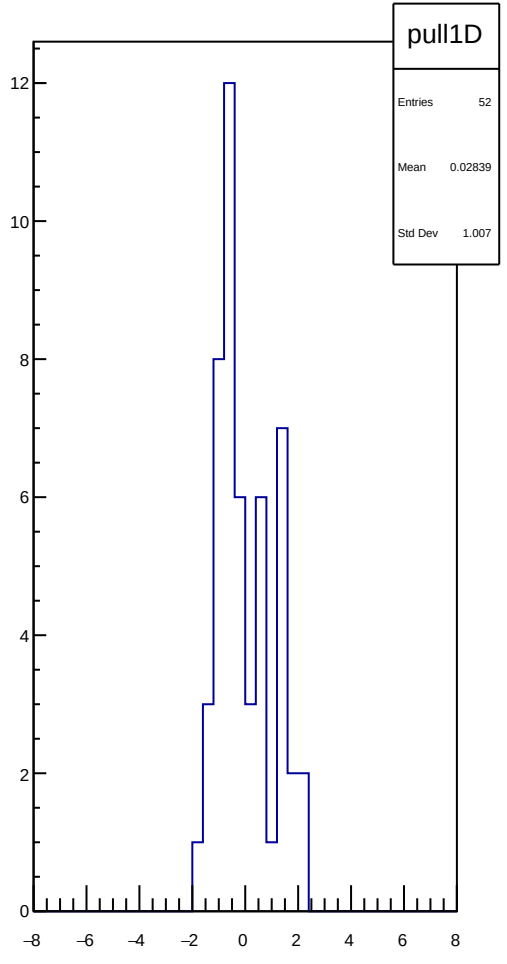

asym_ds_agg_dd_rms vs run
χ² / ndf 362.3 / 50
p0 398.6 ± 0.3906
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

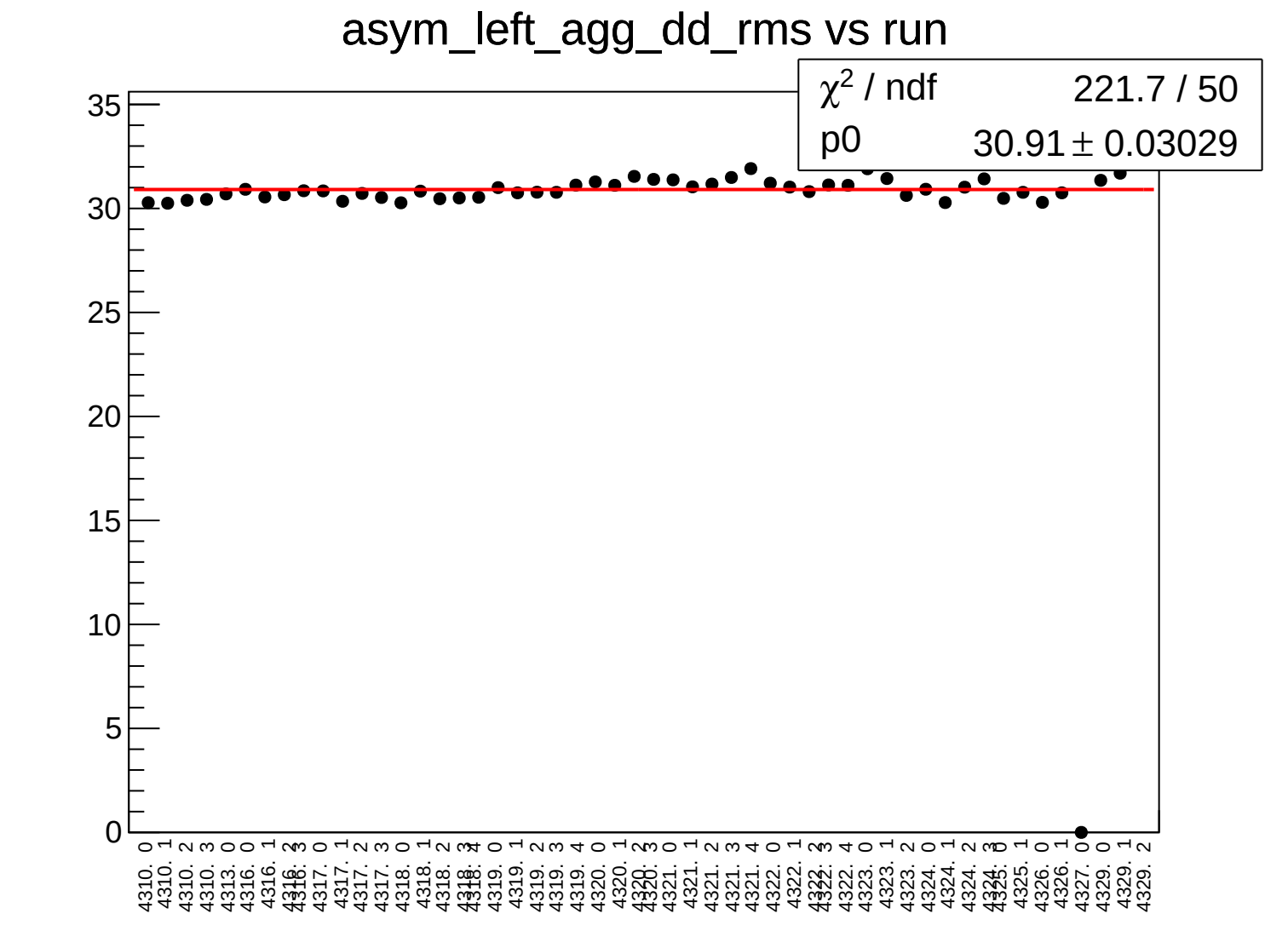

asym_left_agg_avg_mean vs run
χ² / ndf 50.73 / 50
p0 115.7 ± 746.3
20000
15000
10000
5000
0
−5000
−10000
−15000

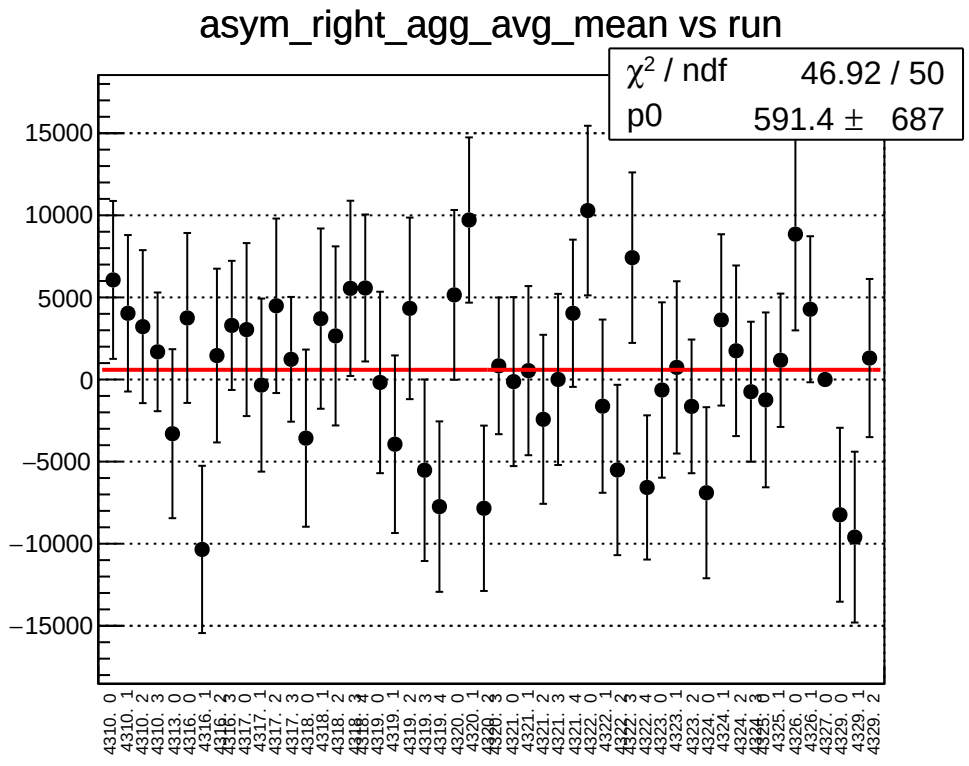

pull1D
Entries 52
Mean 0.01379
Std Dev 0.9972
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

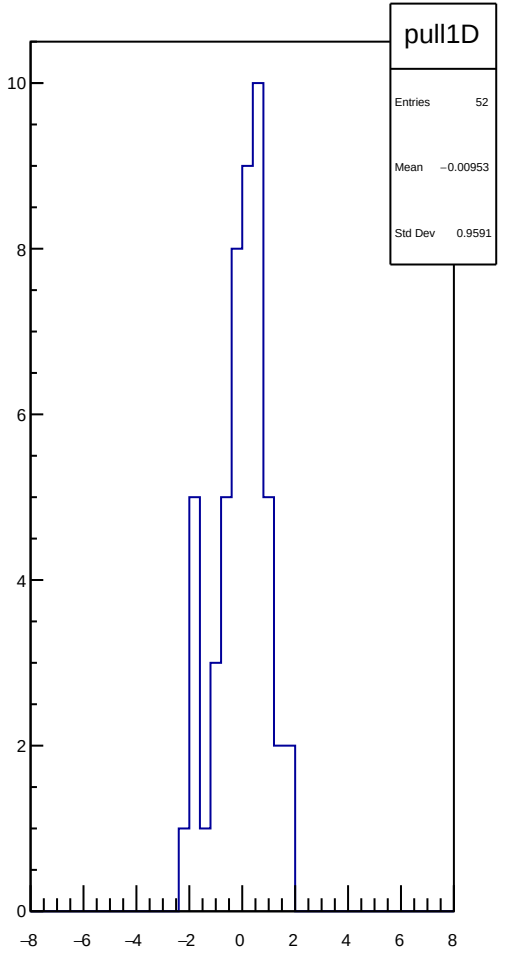

asym_left_agg_avg_rms vs run
χ² / ndf 3174 / 50
p0 537.8 ± 0.5277
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

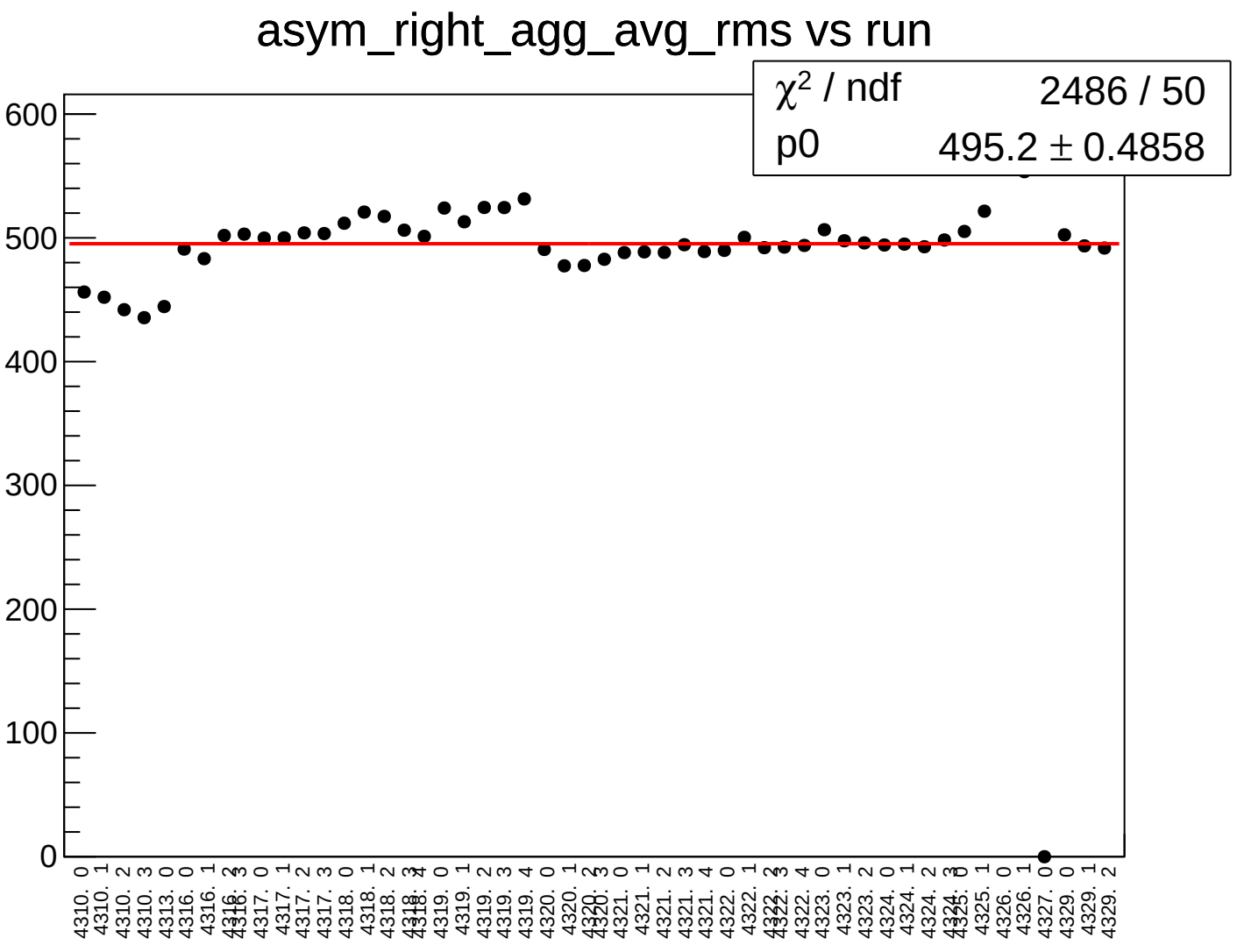

asym_left_agg_dd_mean vs run
χ² / ndf 51.75 / 50
p0 57.69 ± 42.83
1000
500
0
−500
−1000

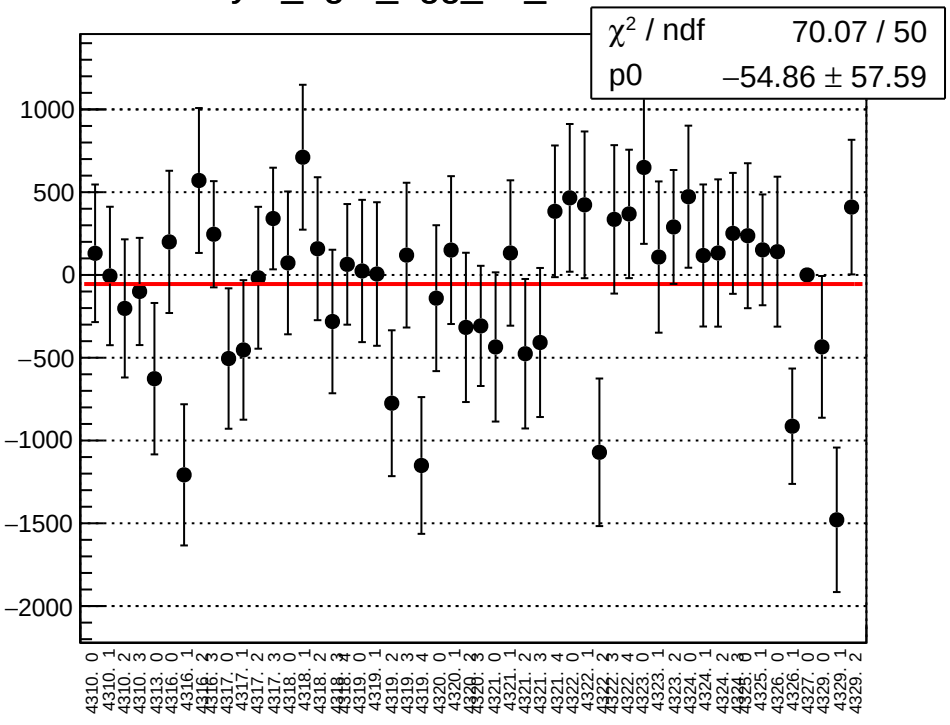

pull1D
Entries 52
Mean 0.02839
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

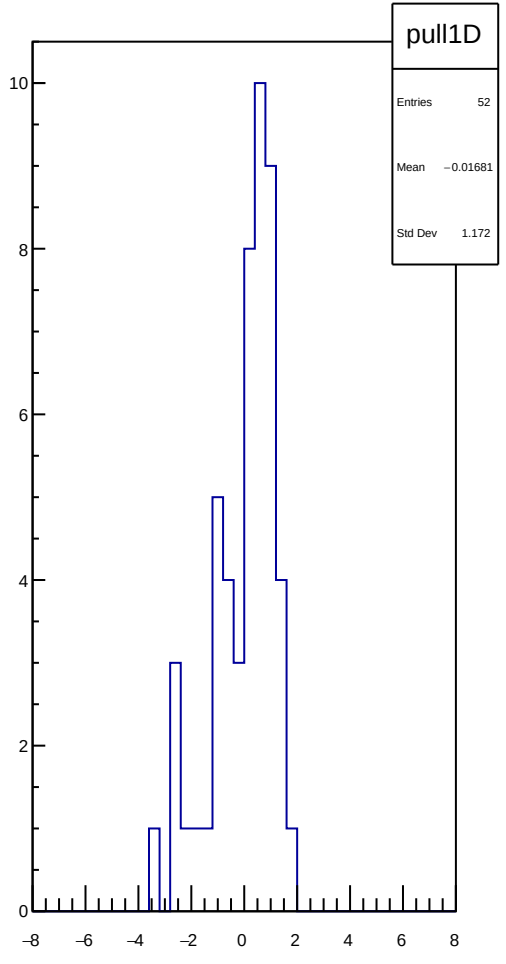

asym_left_agg_dd_rms vs run
χ² / ndf 221.7 / 50
p0 30.91 ± 0.03029
35
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

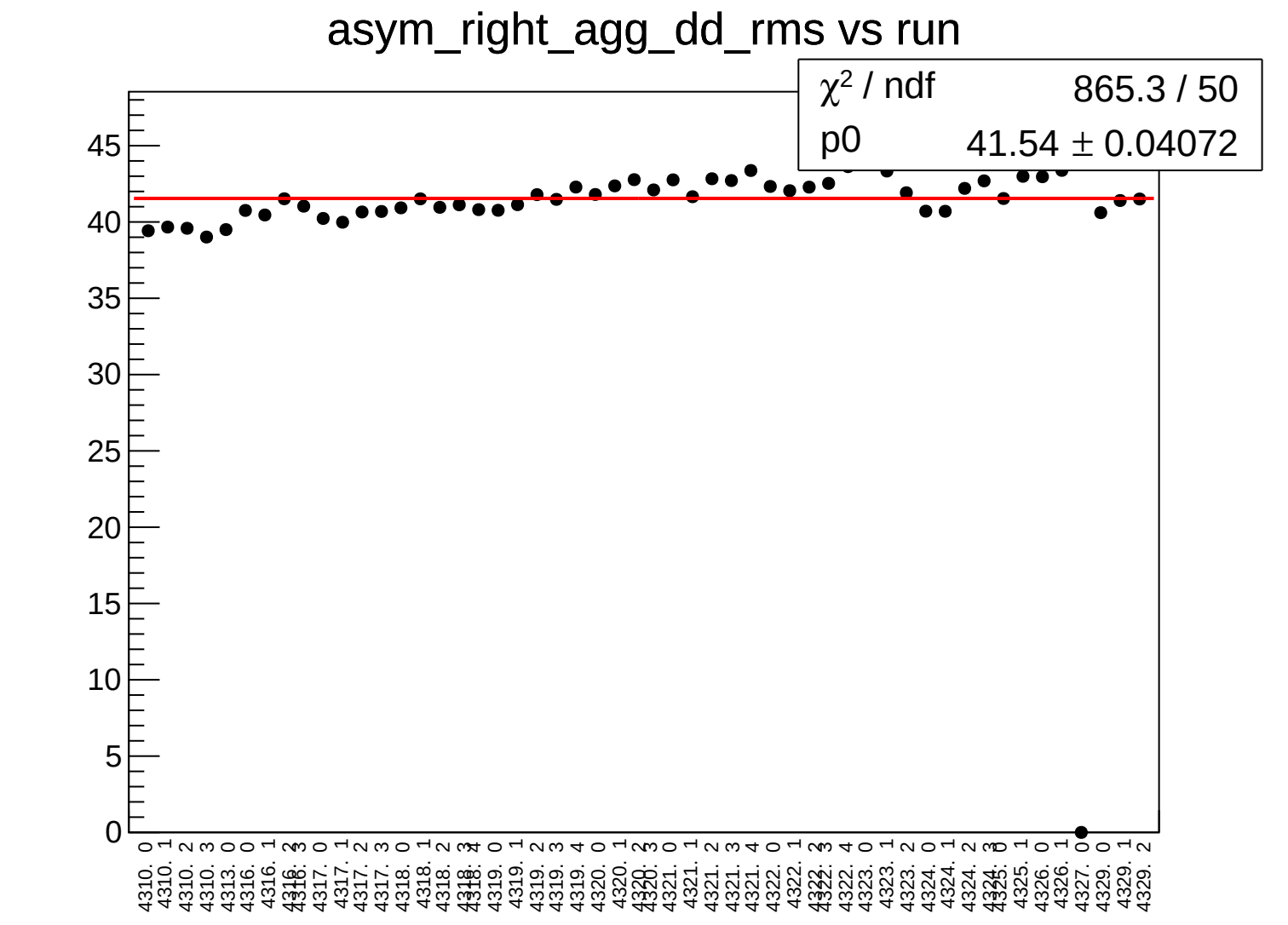

asym_right_agg_avg_mean vs run
χ² / ndf 46.92 / 50
p0 591.4 ± 687
15000
10000
5000
0
−5000
−10000
−15000

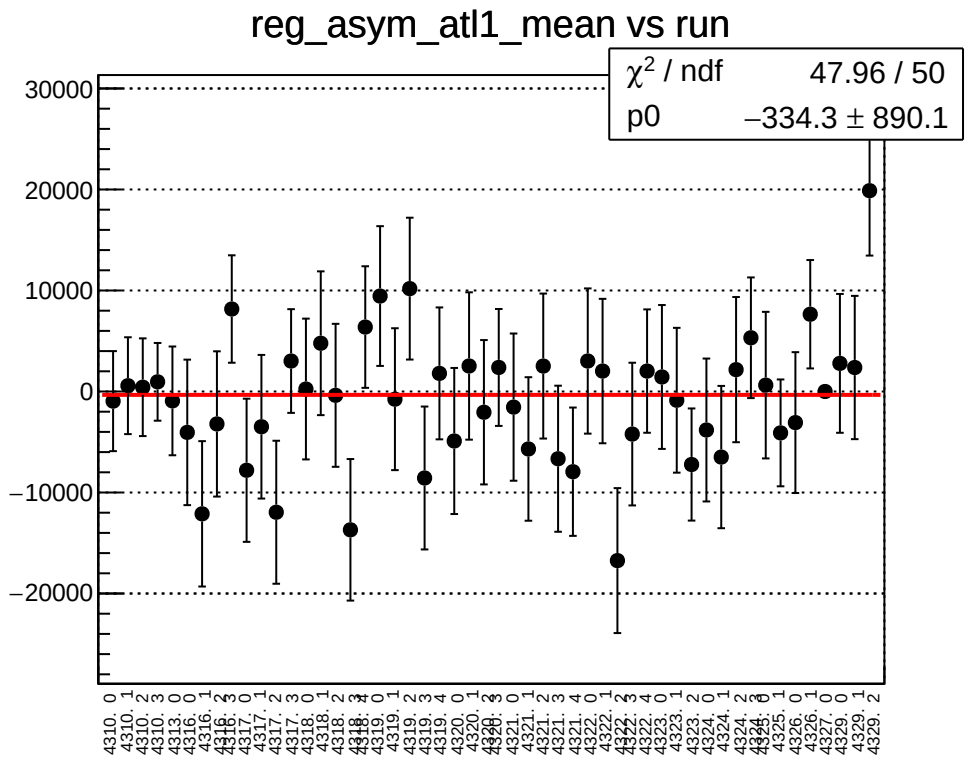

pull1D
Entries 52
Mean −0.00953
Std Dev 0.9591
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

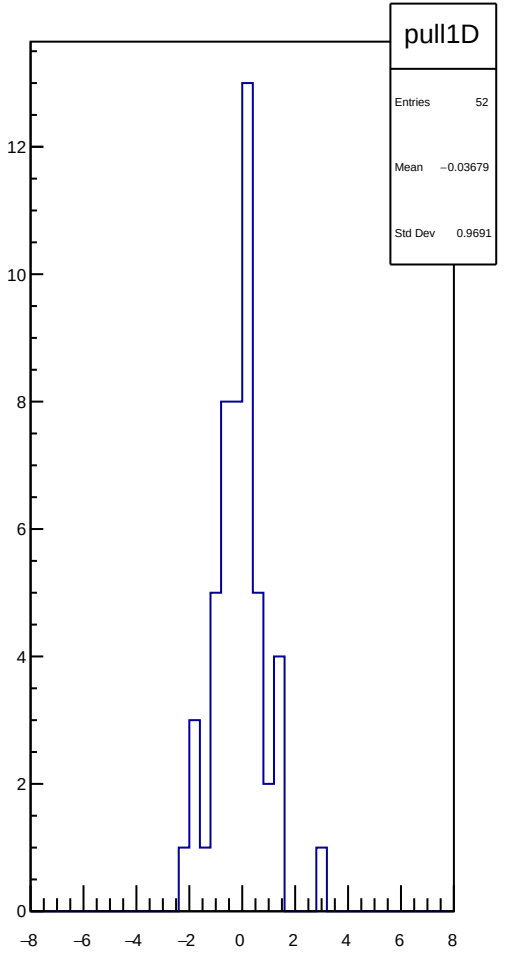

asym_right_agg_avg_rms vs run
χ² / ndf 2486 / 50
p0 495.2 ± 0.4858
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

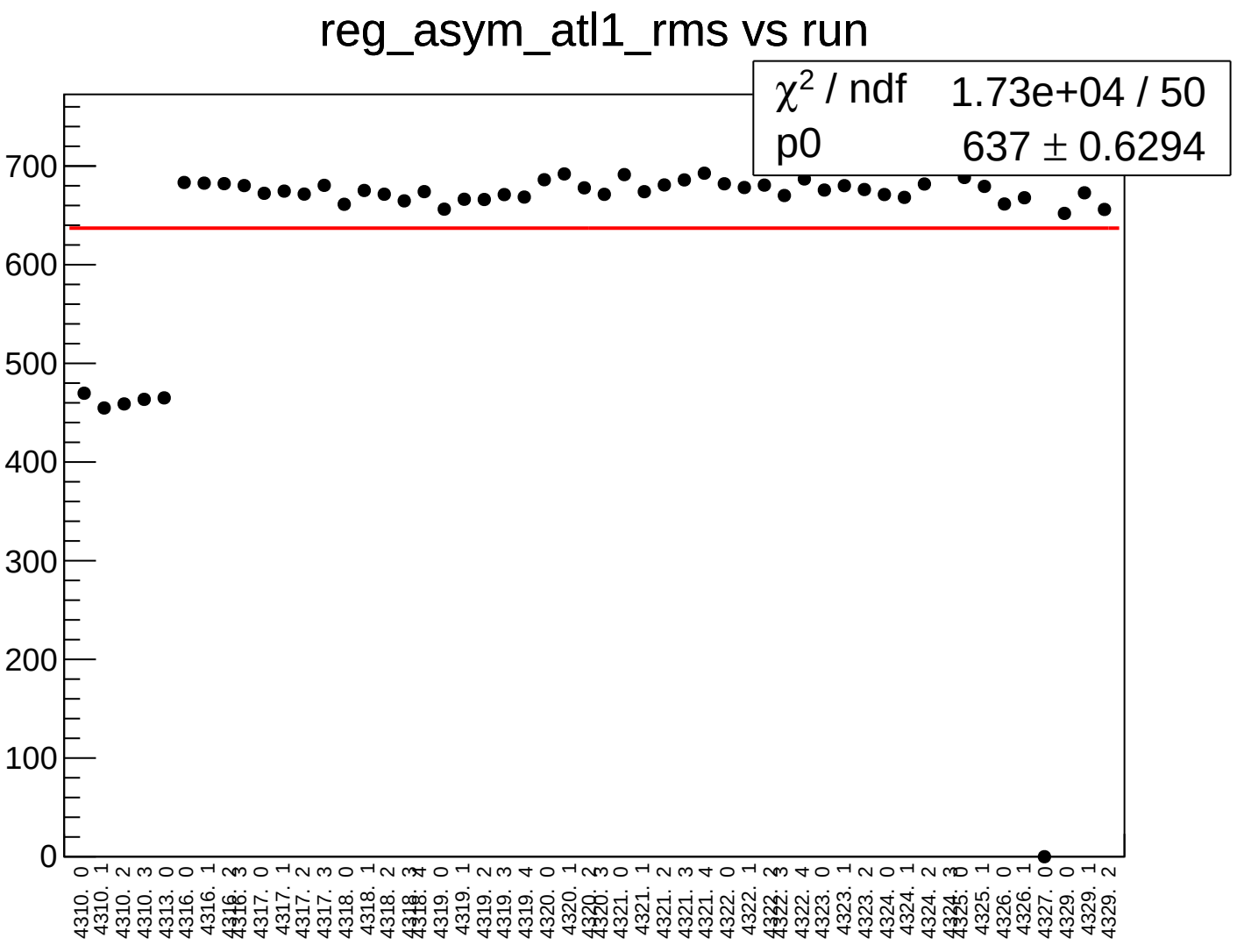

asym_right_agg_dd_mean vs run
χ² / ndf 70.07 / 50
p0 −54.86 ± 57.59
1000
500
0
−500
−1000
−1500
−2000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01681
Std Dev 1.172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_agg_dd_rms vs run
χ² / ndf 865.3 / 50
p0 41.54 ± 0.04072
45
40
35
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_atl1_mean vs run
χ² / ndf 47.96 / 50
p0 −334.3 ± 890.1
30000
20000
10000
0
−10000
−20000


pull1D
Entries 52
Mean −0.03679
Std Dev 0.9691
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_rms vs run
χ² / ndf 1.73e+04 / 50
p0 637 ± 0.6294
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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4326. 1
4327. 0
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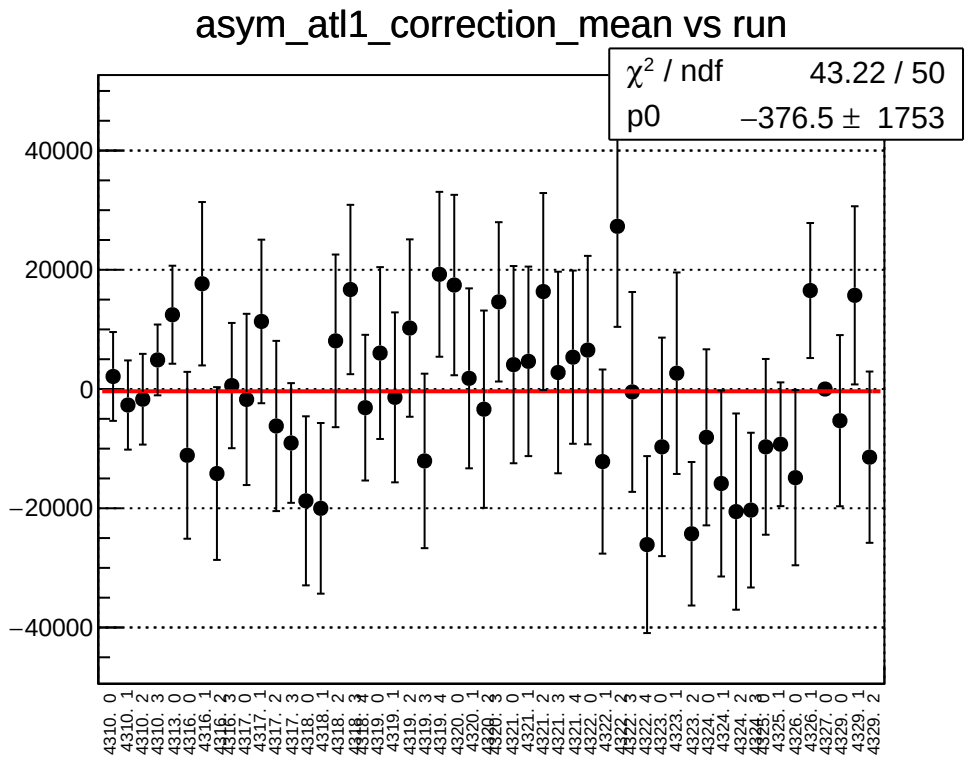
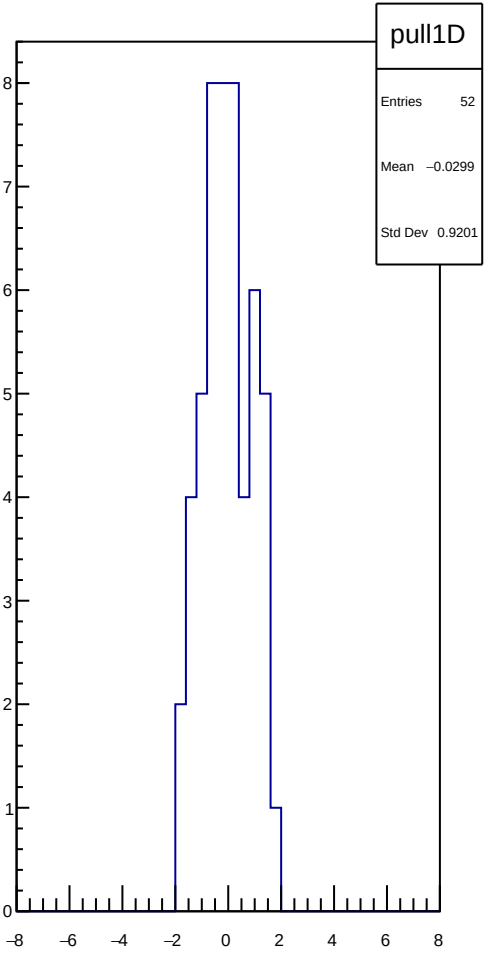
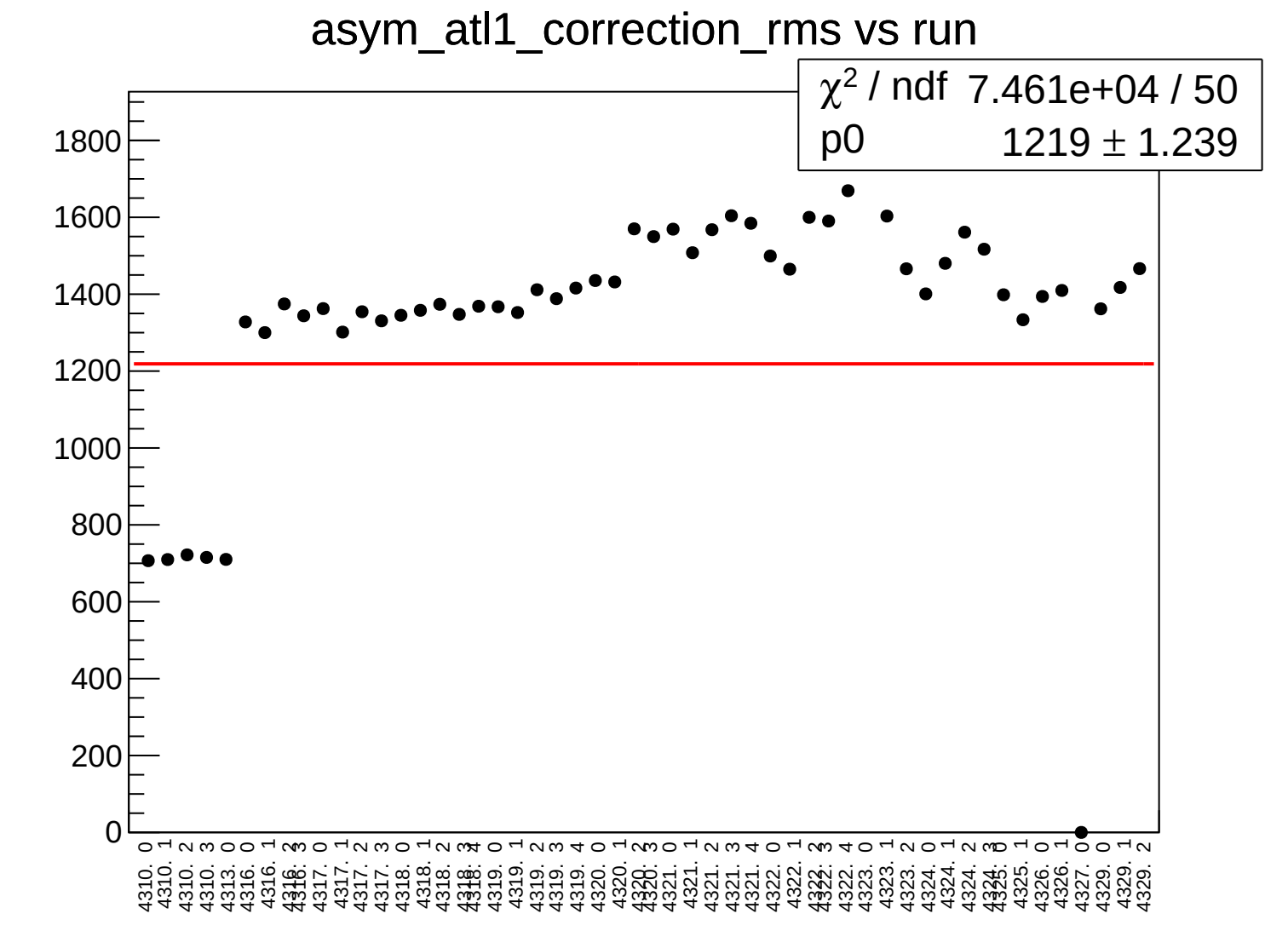
4329. 1
4329. 2


asym_atl1_correction_mean vs run
χ² / ndf 43.22 / 50
p0 −376.5 ± 1753
40000
20000
0
−20000
−40000


pull1D
Entries 52
Mean −0.0299
Std Dev 0.9201
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_correction_rms vs run
χ² / ndf 7.461e+04 / 50
p0 1219 ± 1.239
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
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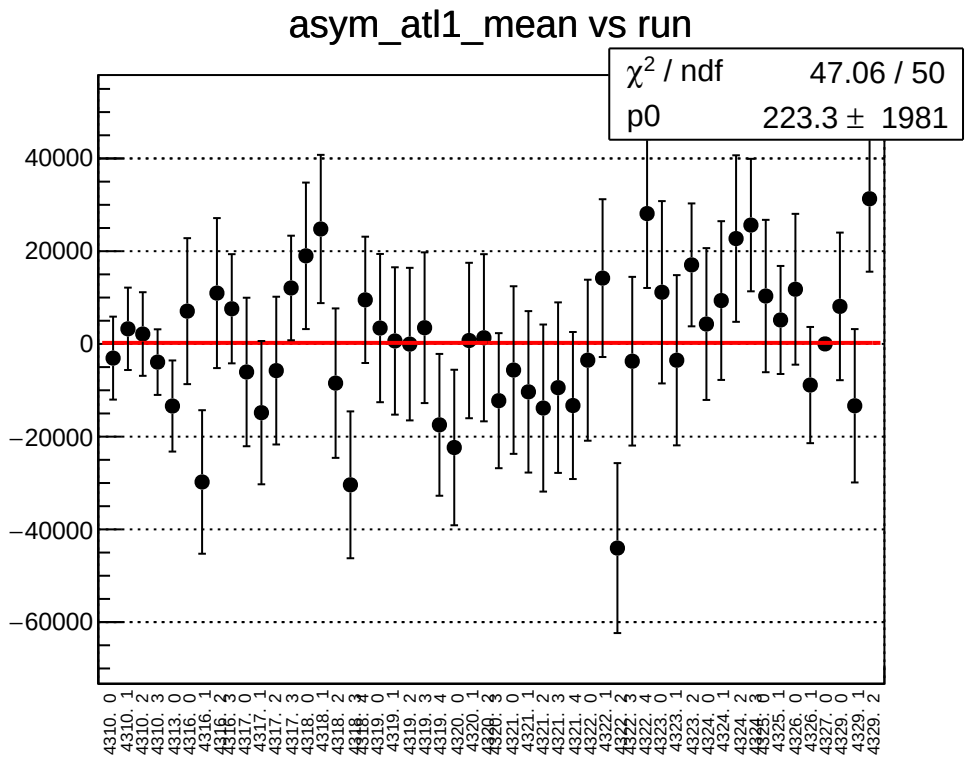
4329. 1
4329. 2


asym_atl1_mean vs run
χ² / ndf 47.06 / 50
p0 223.3 ± 1981
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
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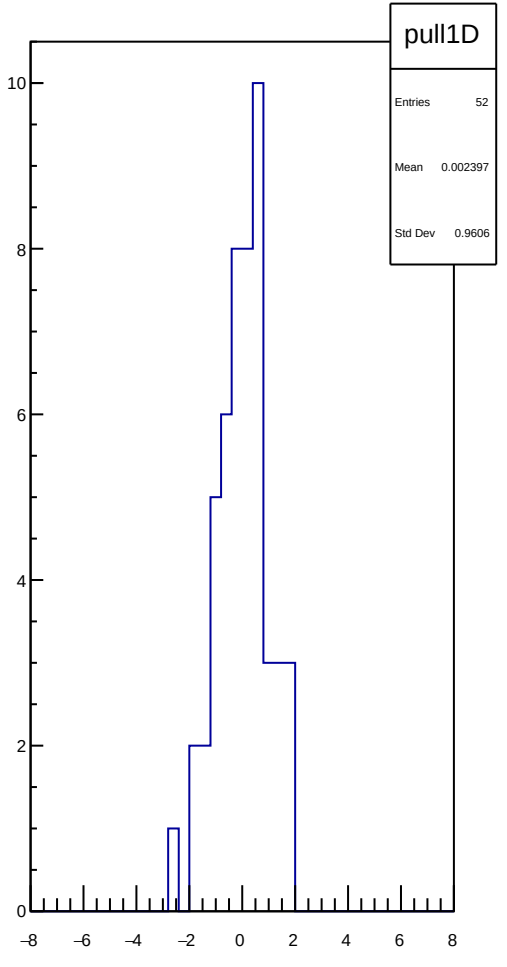
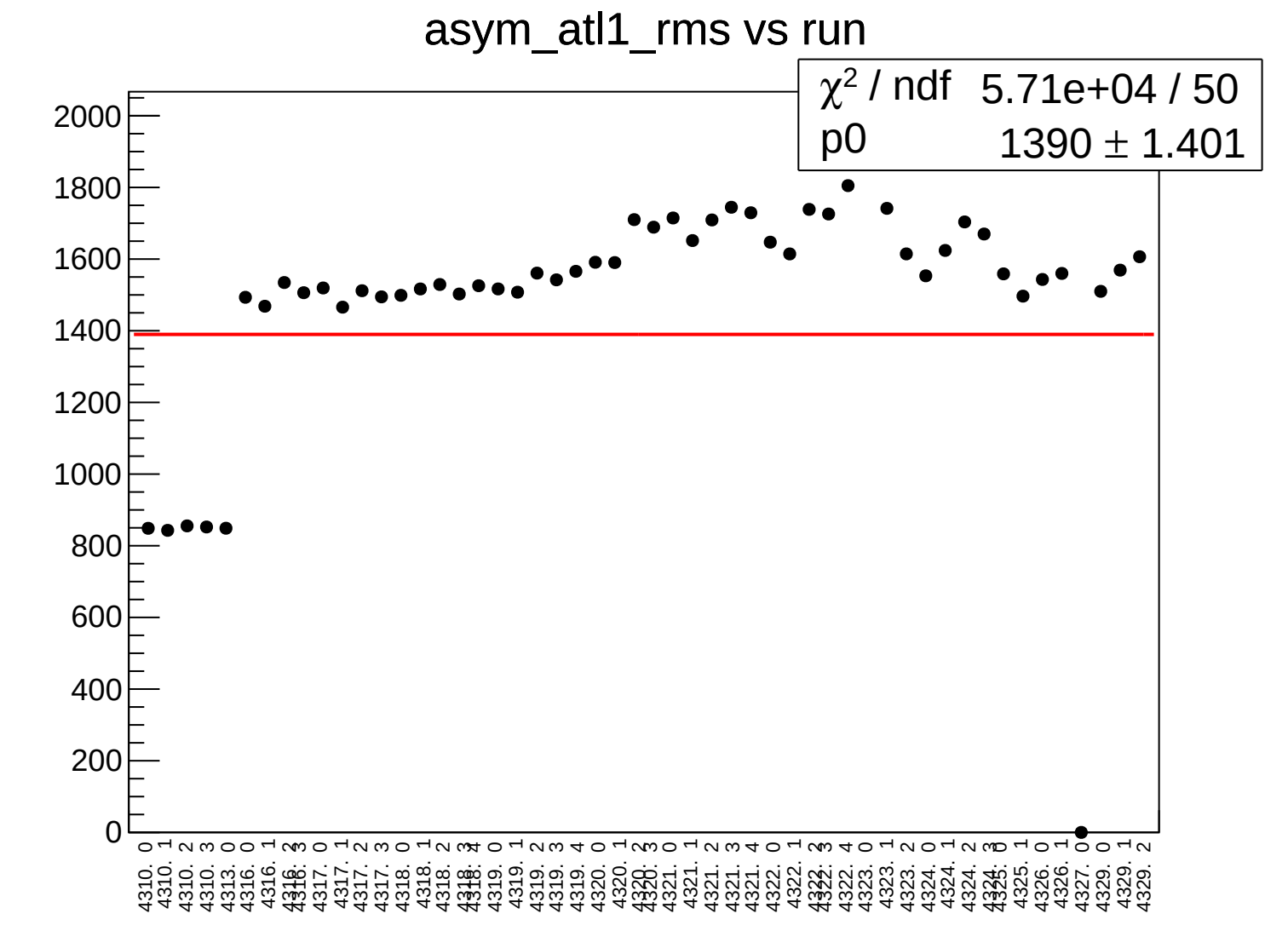
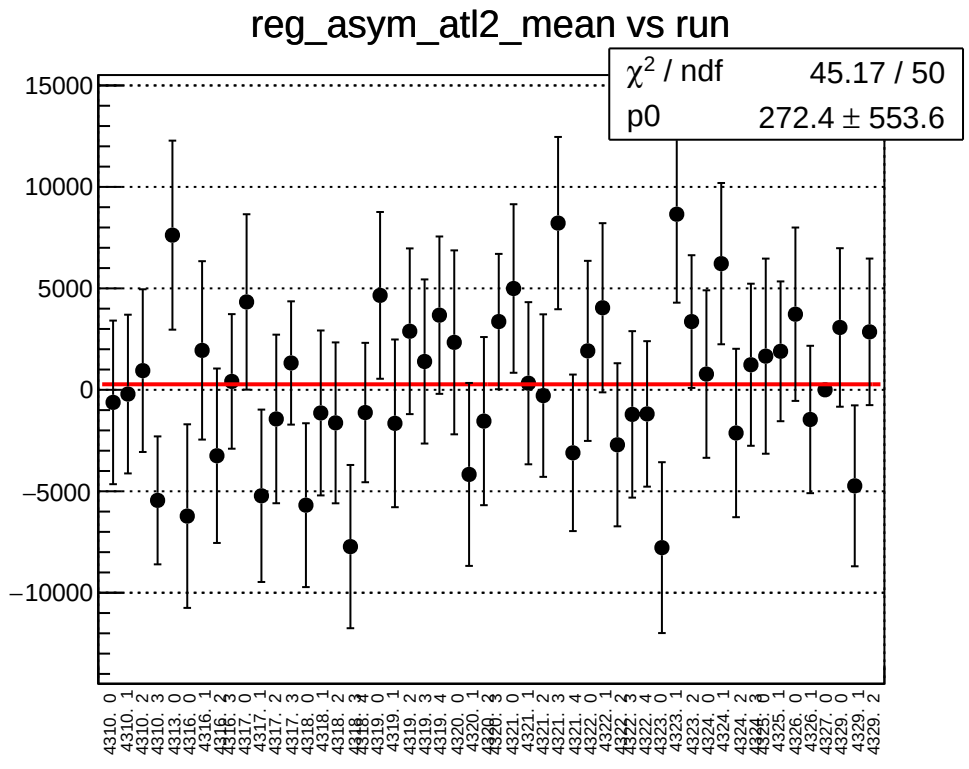
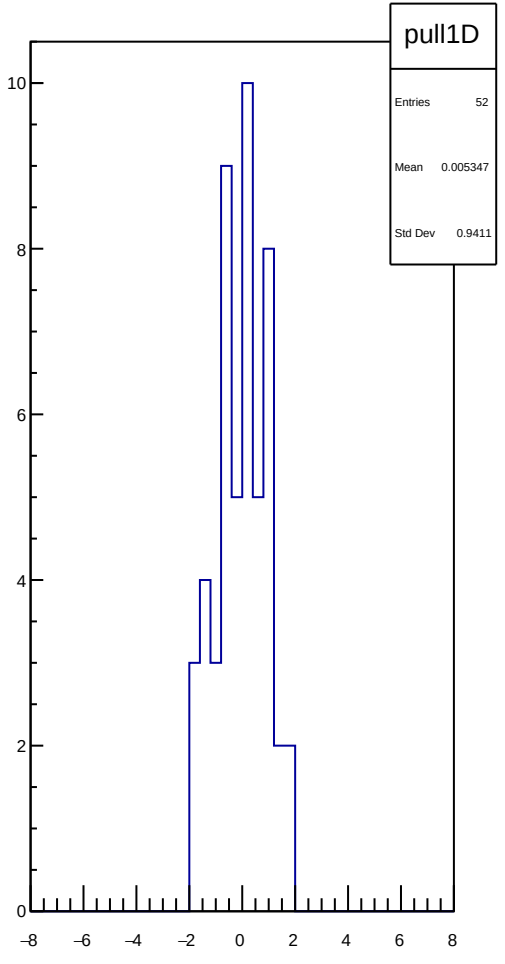
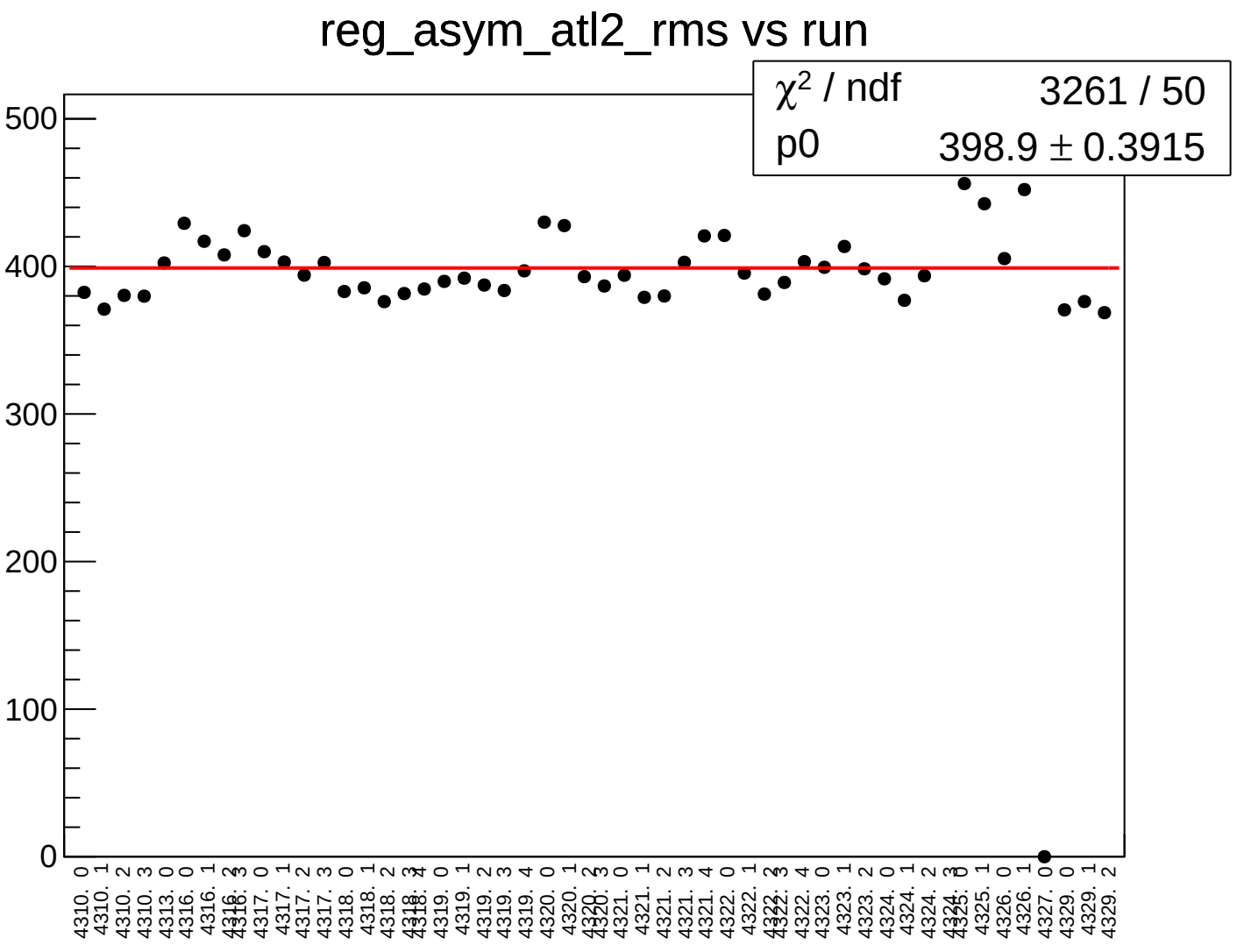
4329. 1
4329. 2

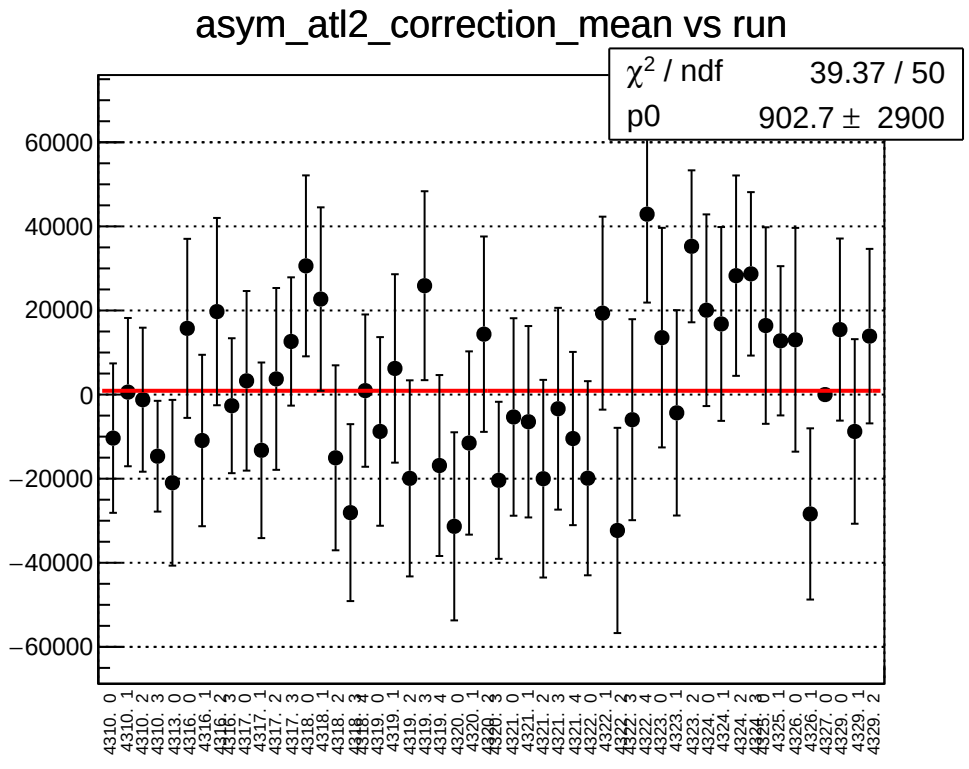

pull1D
Entries 52
Mean 0.002397
Std Dev 0.9606
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

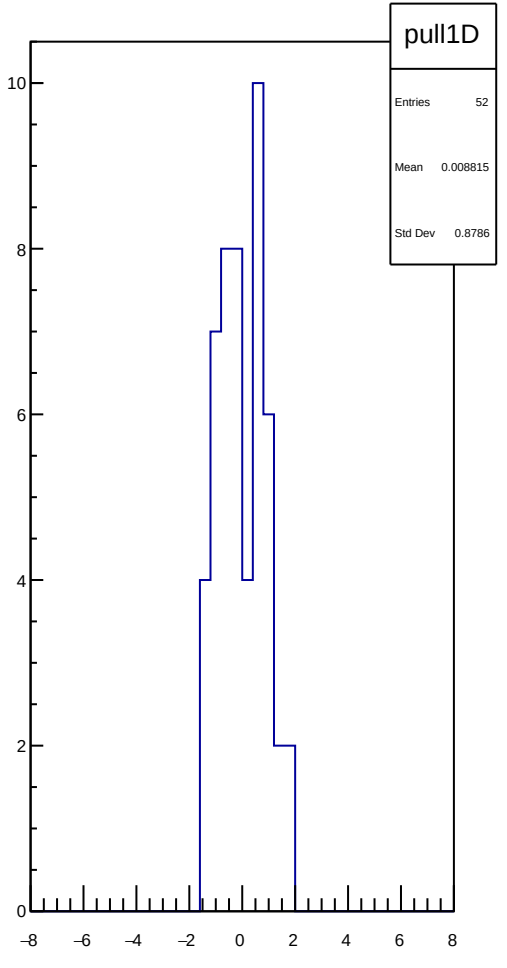

asym_atl1_rms vs run
χ² / ndf 5.71e+04 / 50
p0 1390 ± 1.401
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

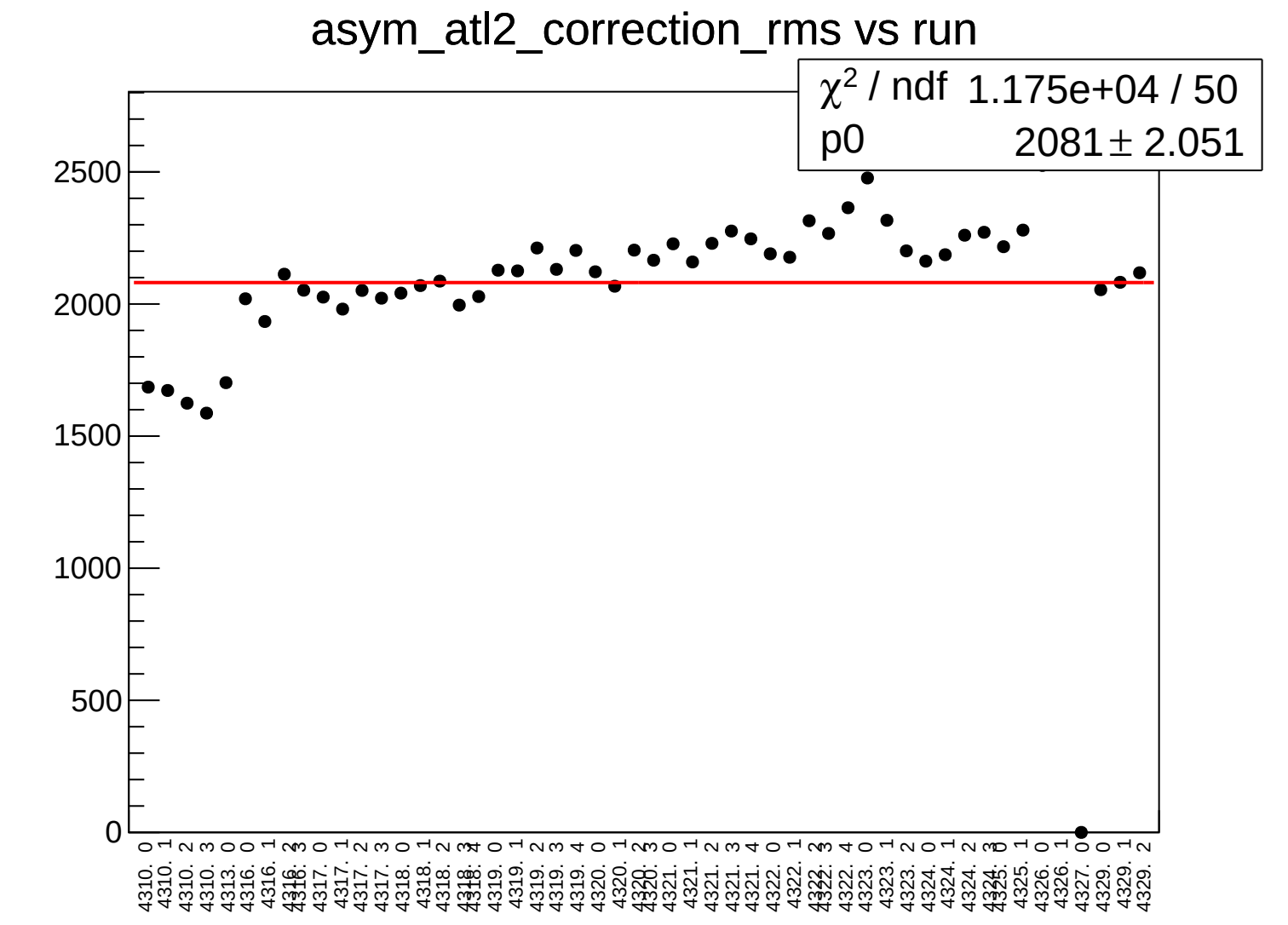

reg_asym_atl2_mean vs run
χ² / ndf 45.17 / 50
p0 272.4 ± 553.6
15000
10000
5000
0
−5000
−10000

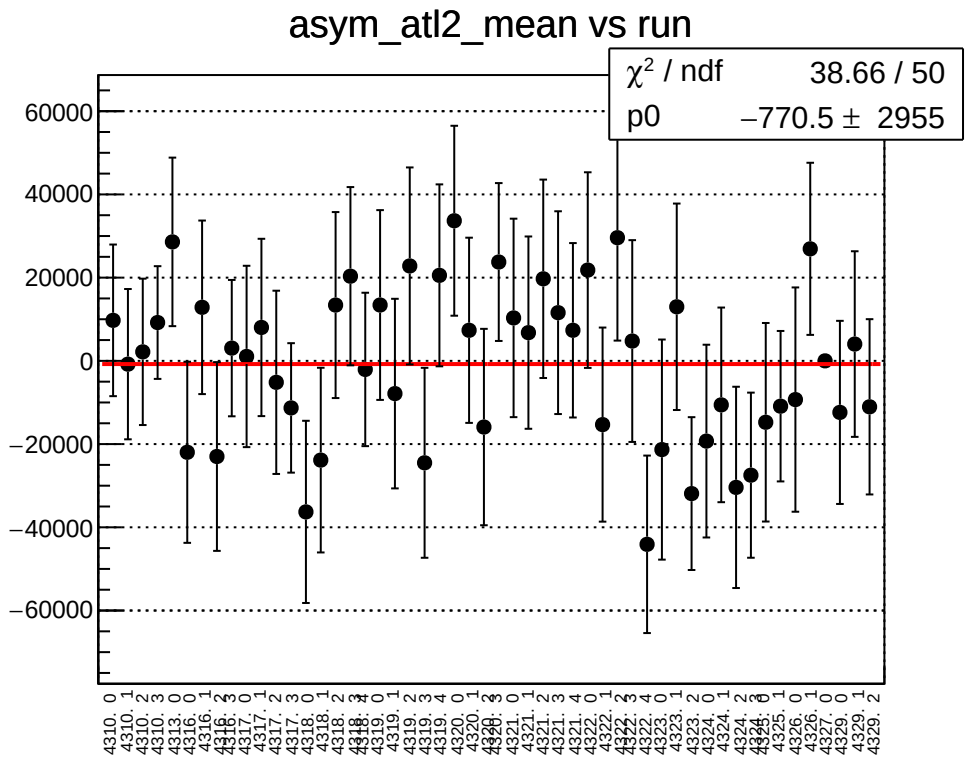

pull1D
Entries 52
Mean 0.005347
Std Dev 0.9411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

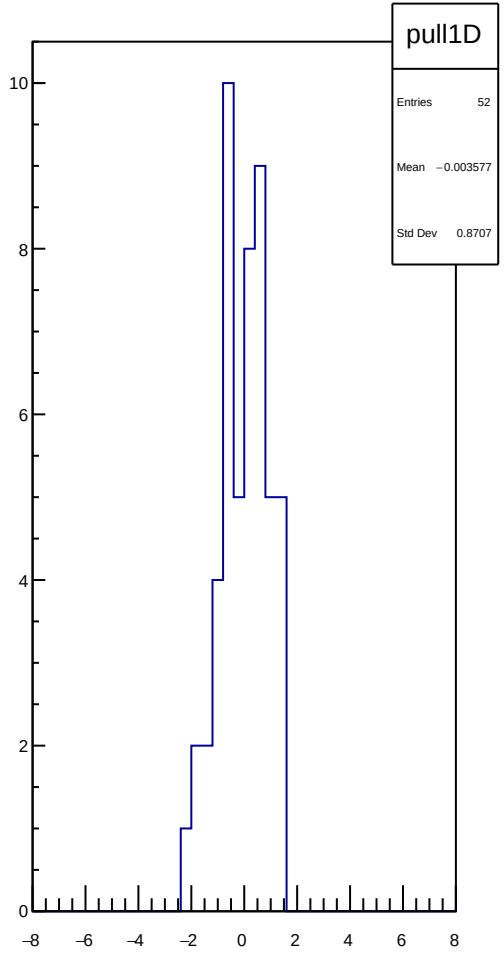

reg_asym_atl2_rms vs run
χ² / ndf 3261 / 50
p0 398.9 ± 0.3915
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

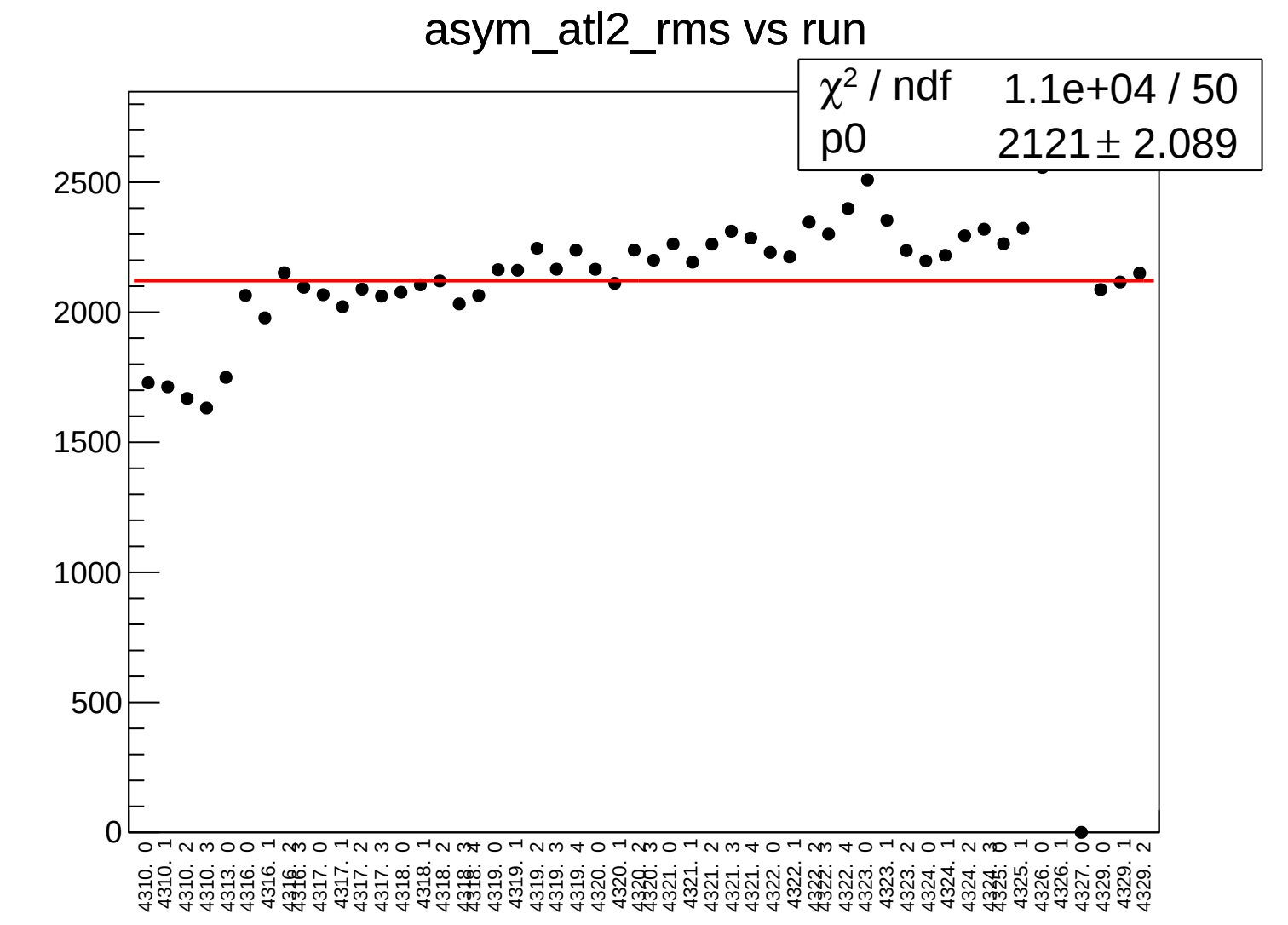

asym_atl2_correction_mean vs run
χ² / ndf 39.37 / 50
p0 902.7 ± 2900
60000
40000
20000
0
−20000
−40000
−60000

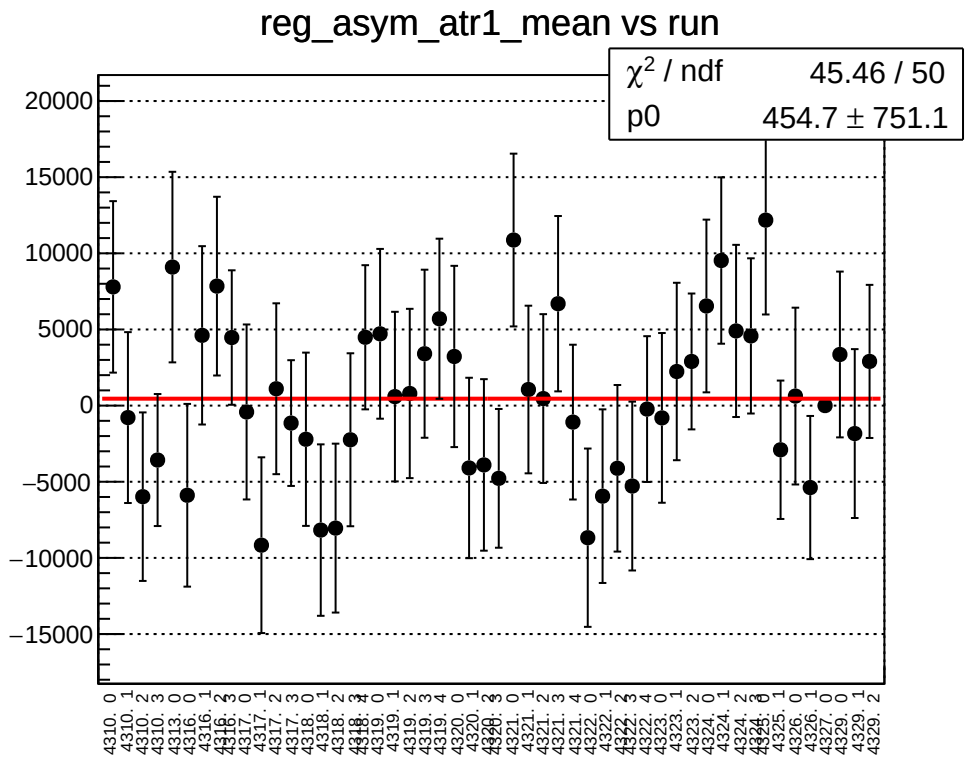

pull1D
Entries 52
Mean 0.008815
Std Dev 0.8786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

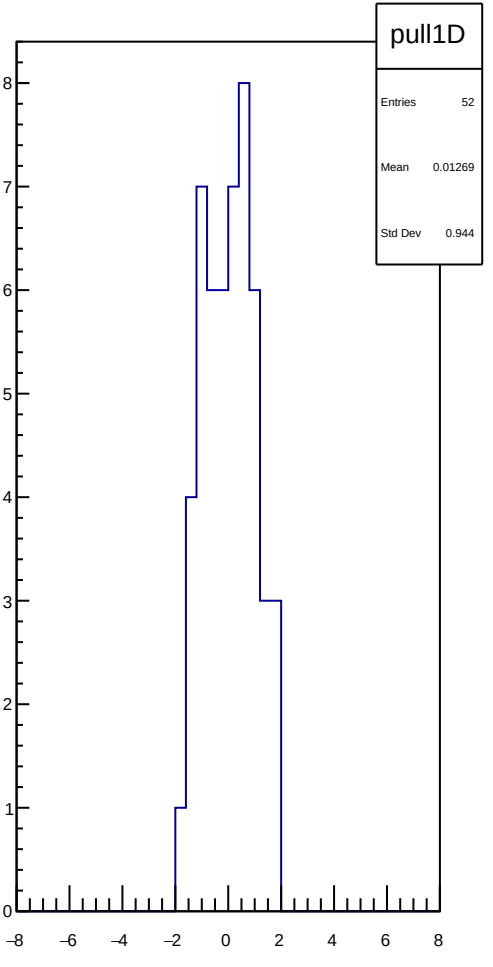

asym_atl2_correction_rms vs run
χ² / ndf 1.175e+04 / 50
p0 2081 ± 2.051
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

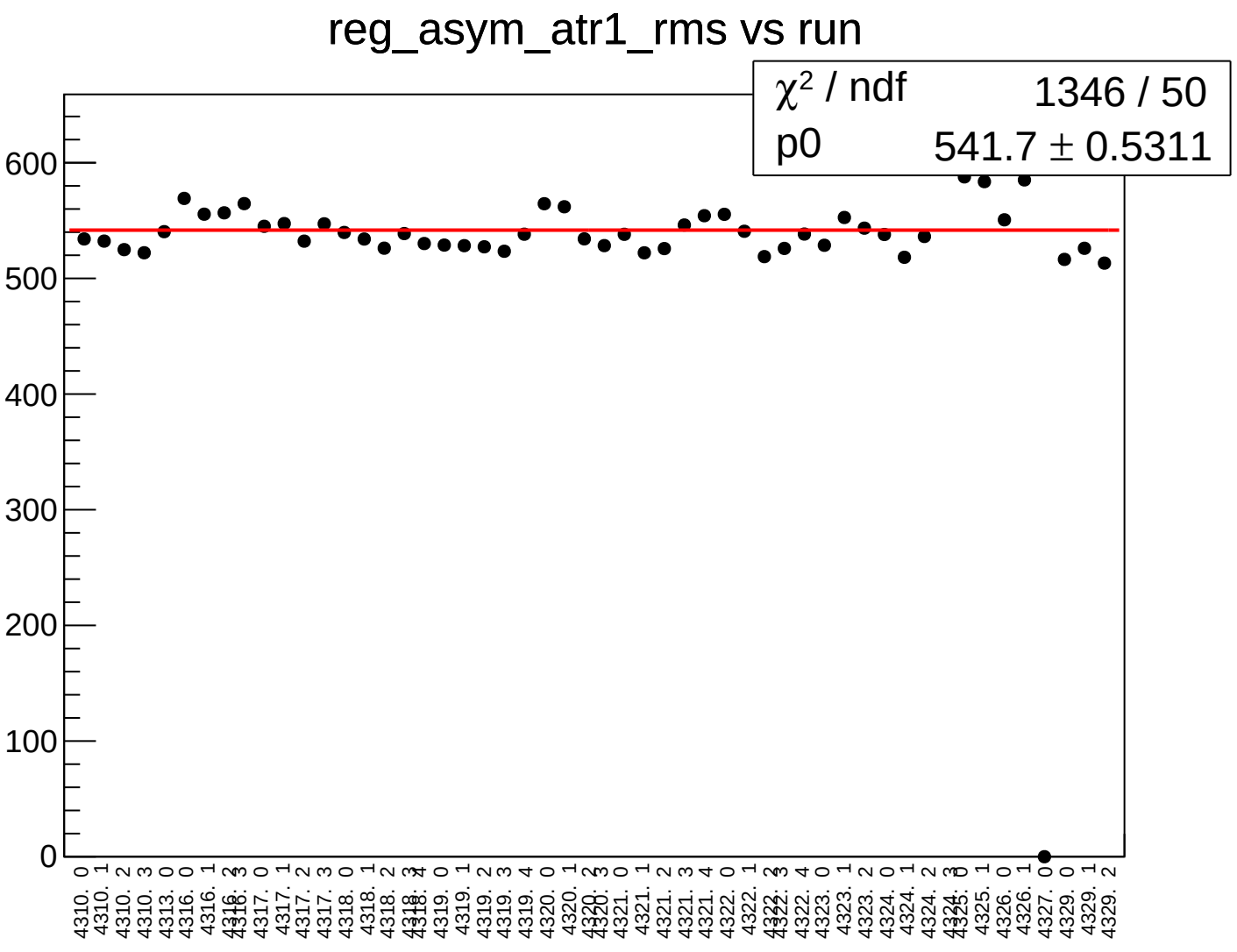

asym_atl2_mean vs run
χ^2 / ndf 38.66 / 50
p0 −770.5 ± 2955
60000
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

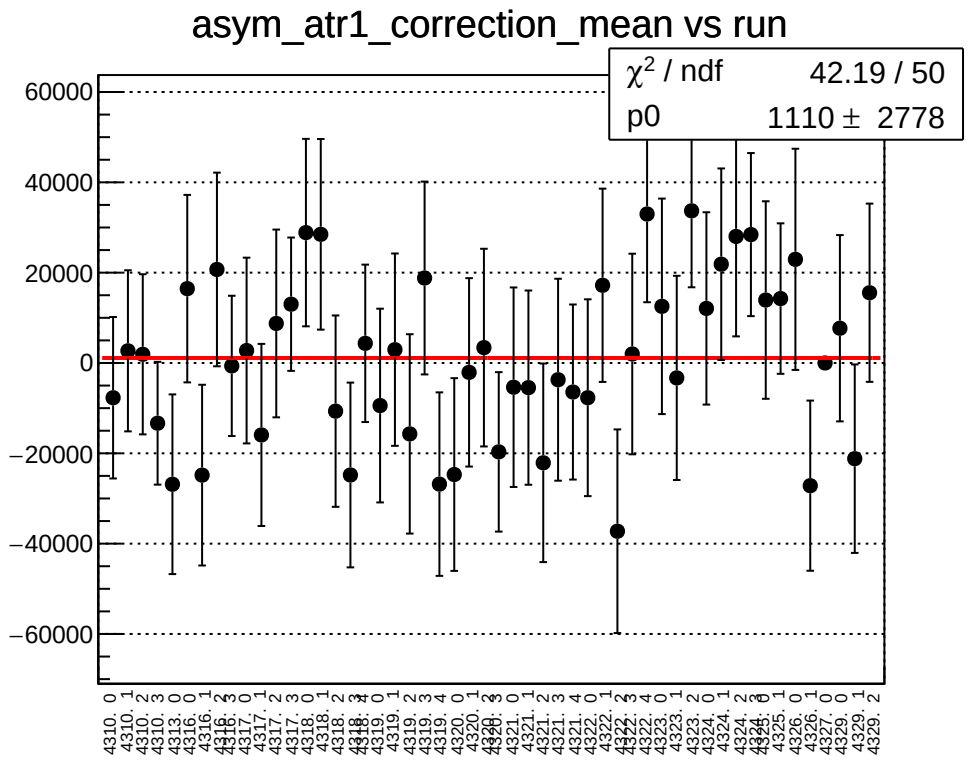

pull1D
Entries 52
Mean −0.003577
Std Dev 0.8707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

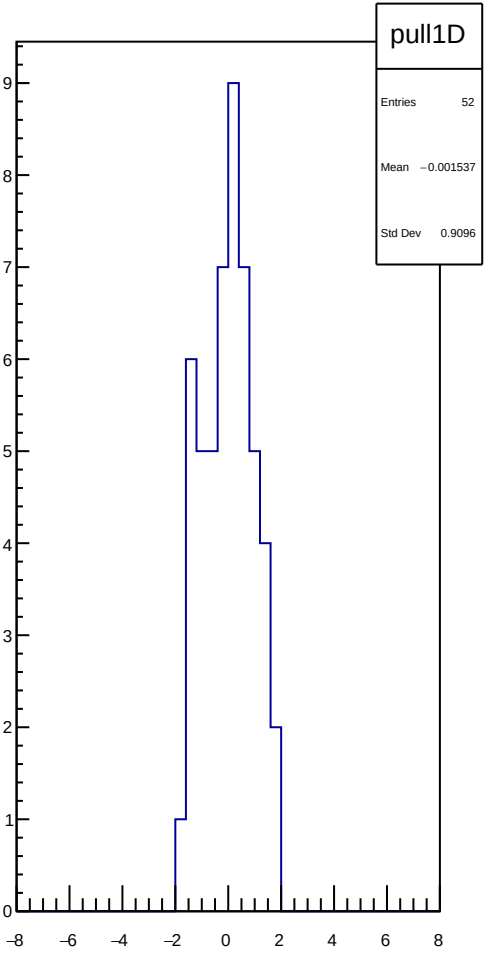

asym_atl2_rms vs run
χ² / ndf 1.1e+04 / 50
p0 2121 ± 2.089
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

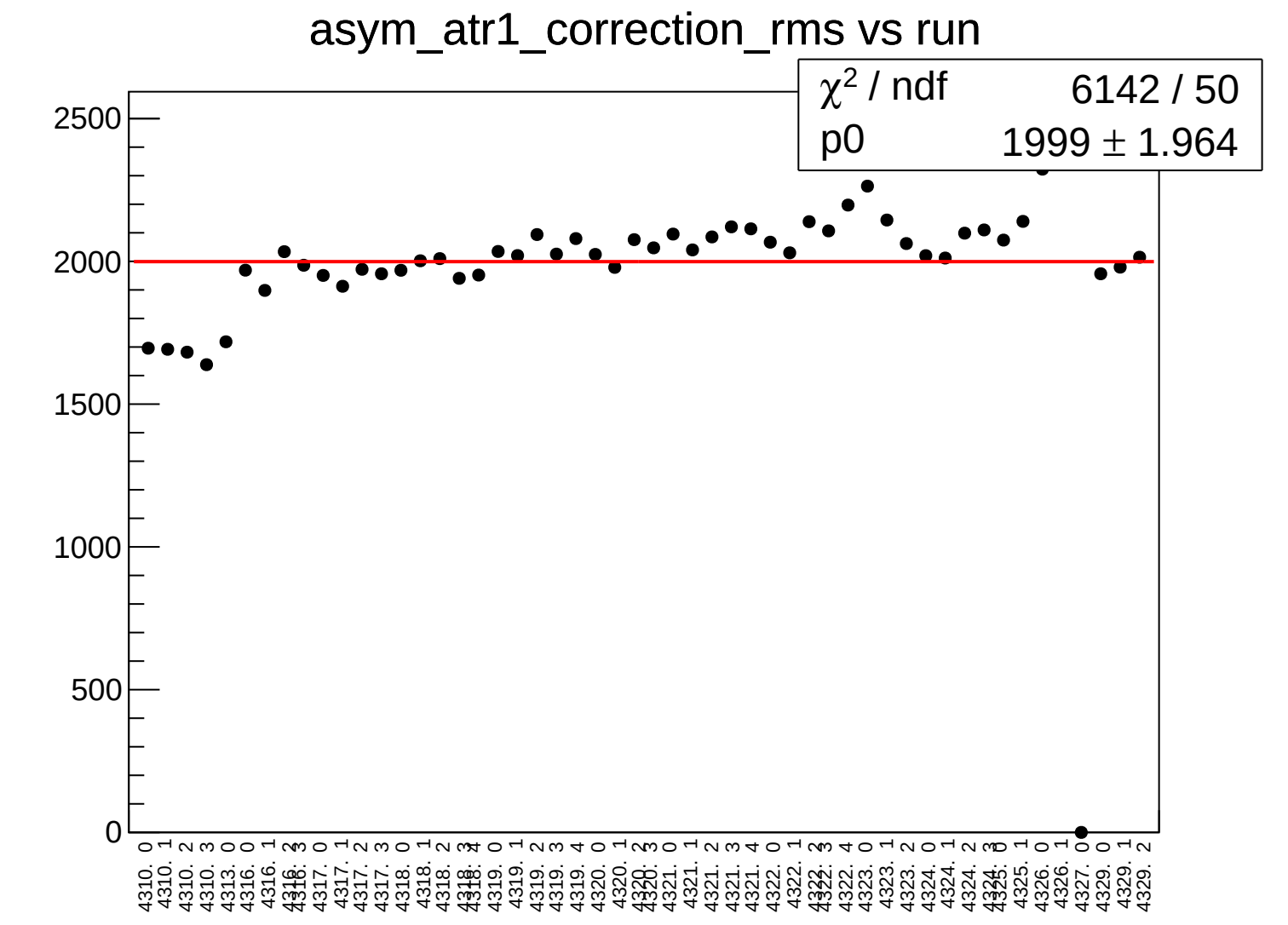

reg_asym_atr1_mean vs run
χ² / ndf 45.46 / 50
p0 454.7 ± 751.1
20000
15000
10000
5000
0
−5000
−10000
−15000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

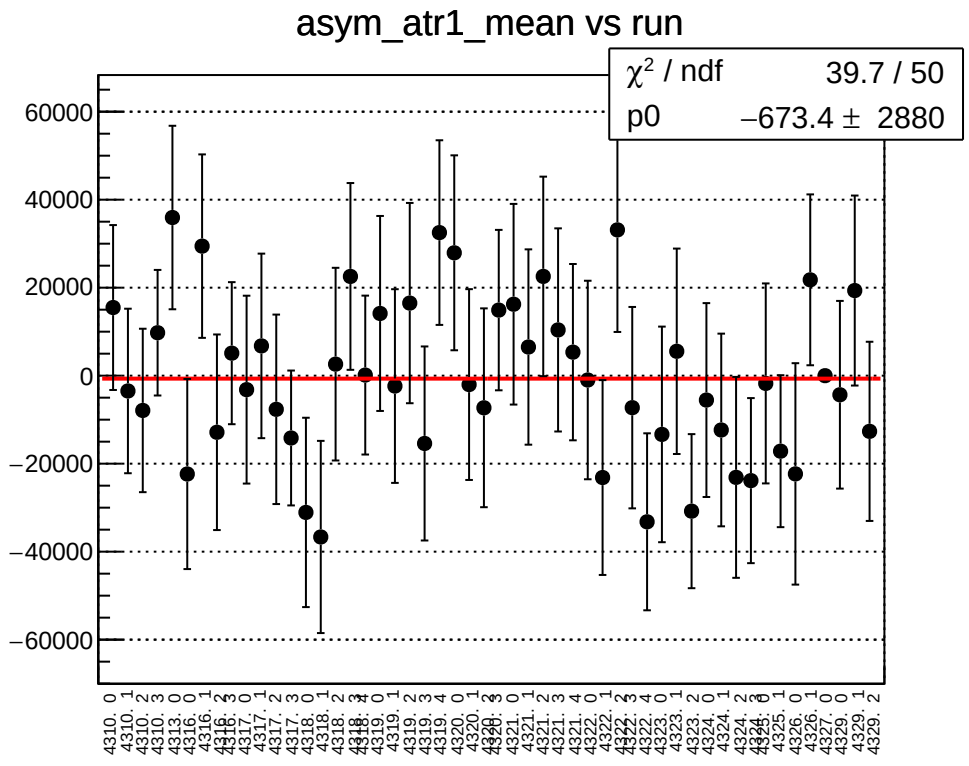

pull1D
Entries 52
Mean 0.01269
Std Dev 0.944
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

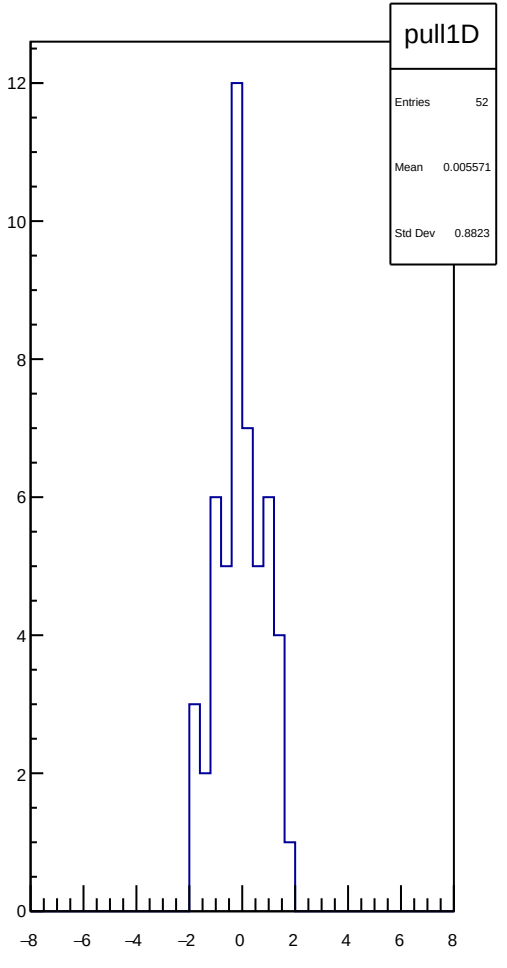

reg_asym_atr1_rms vs run
χ² / ndf 1346 / 50
p0 541.7 ± 0.5311
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

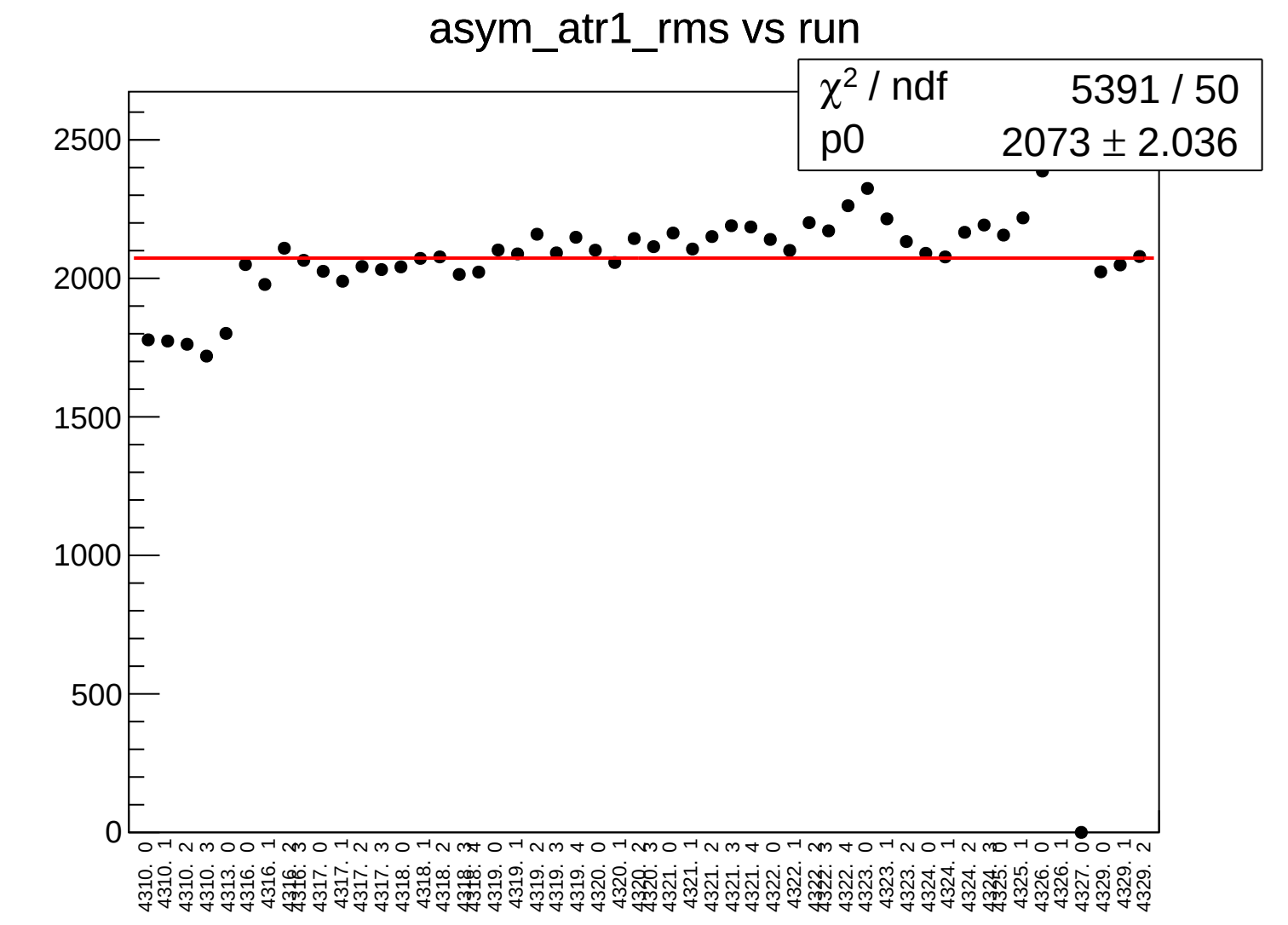

asym_atr1_correction_mean vs run
χ² / ndf 42.19 / 50
p0 1110 ± 2778
60000
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

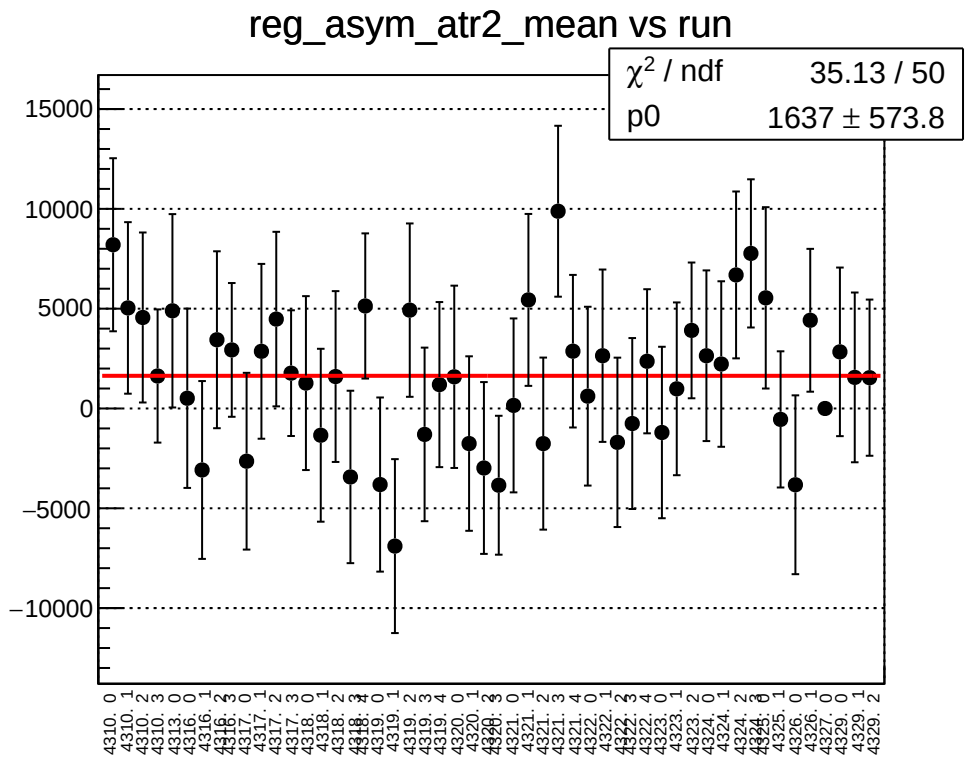

pull1D
Entries 52
Mean −0.001537
Std Dev 0.9096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_correction_rms vs run
χ² / ndf 6142 / 50
p0 1999 ± 1.964
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_atr1_mean vs run
χ² / ndf 39.7 / 50
p0 −673.4 ± 2880
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean 0.005571
Std Dev 0.8823
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ² / ndf 5391 / 50
p0 2073 ± 2.036
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_atr2_mean vs run
χ² / ndf 35.13 / 50
p0 1637 ± 573.8
15000
10000
5000
0
−5000
−10000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
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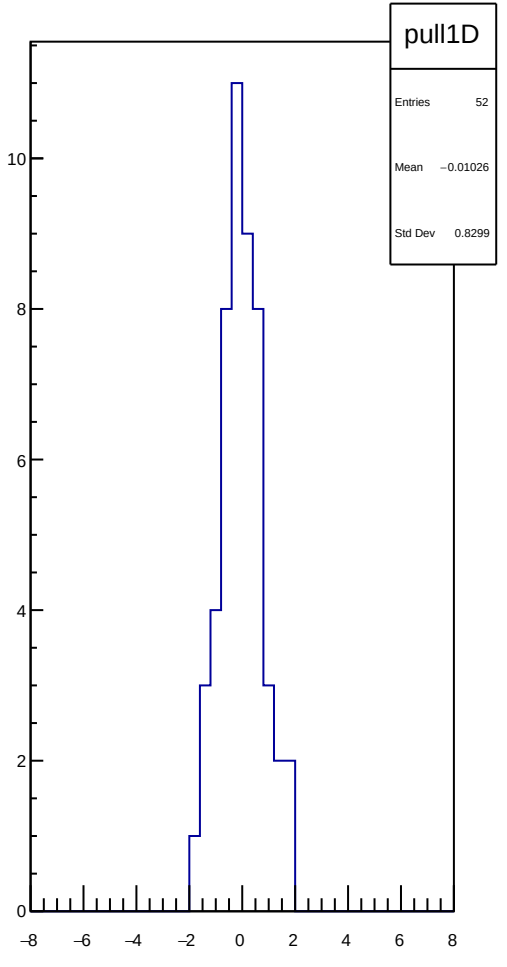
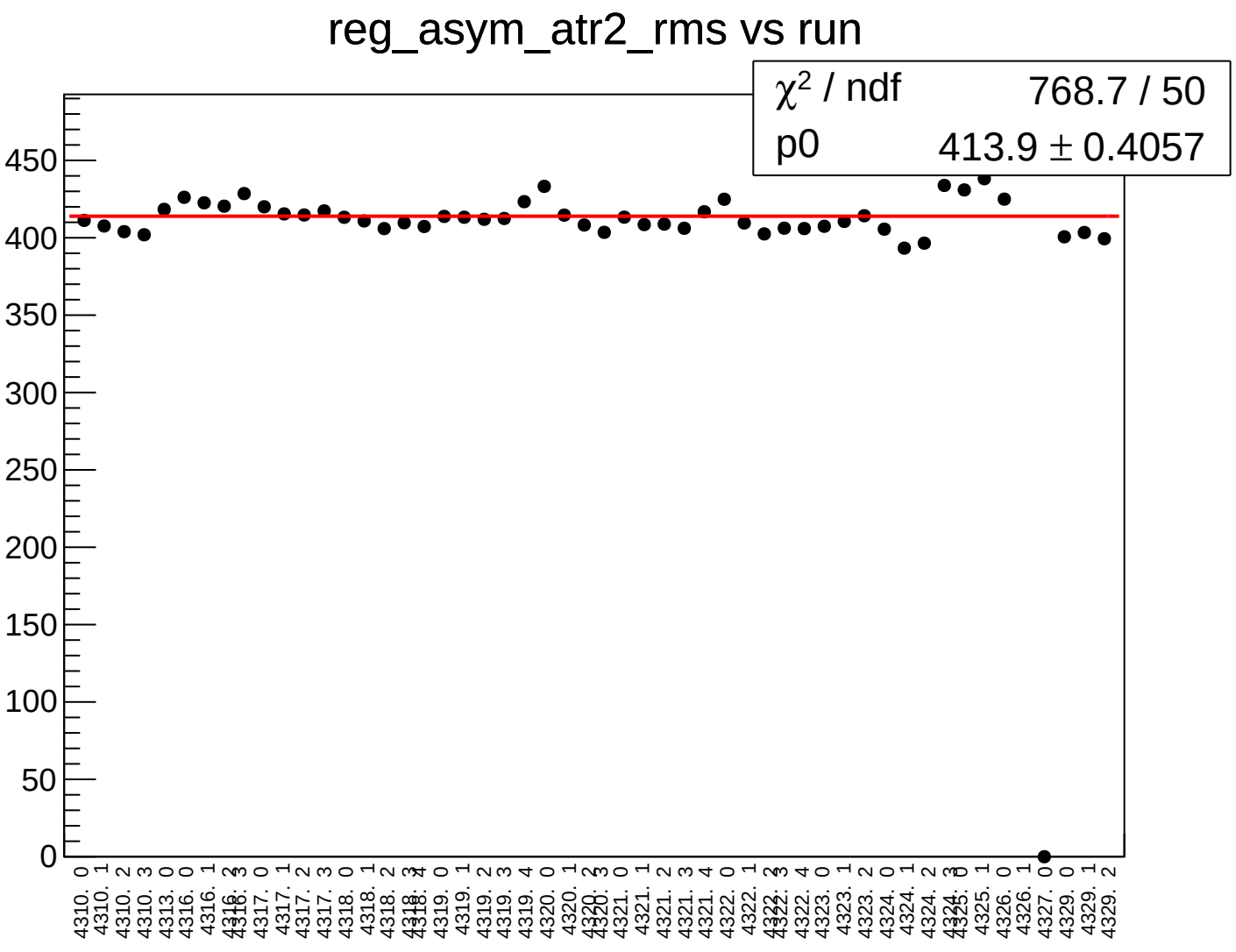
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01026
Std Dev 0.8299
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_rms vs run
χ² / ndf 768.7 / 50
p0 413.9 ± 0.4057
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
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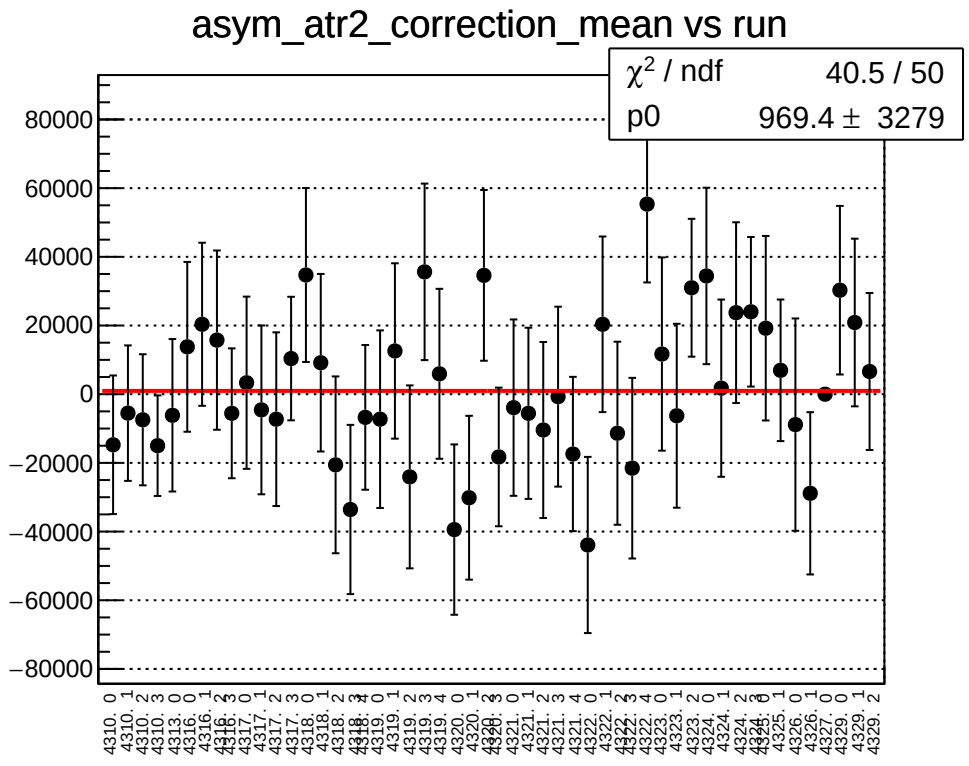
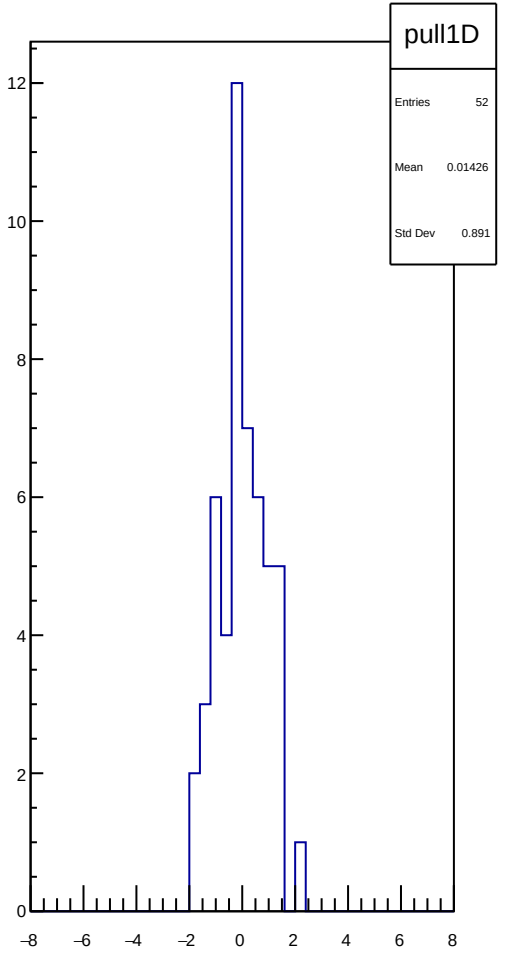
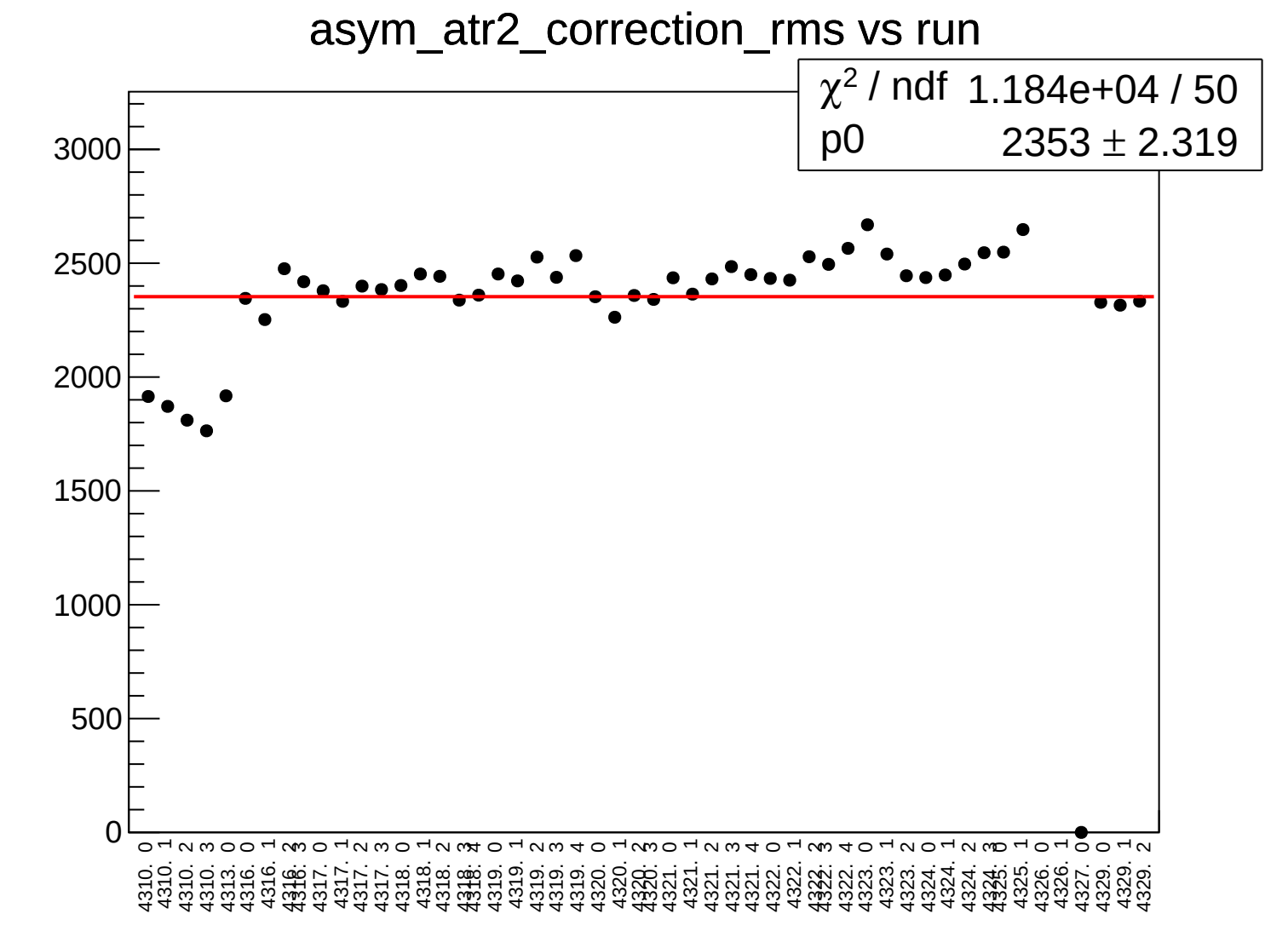
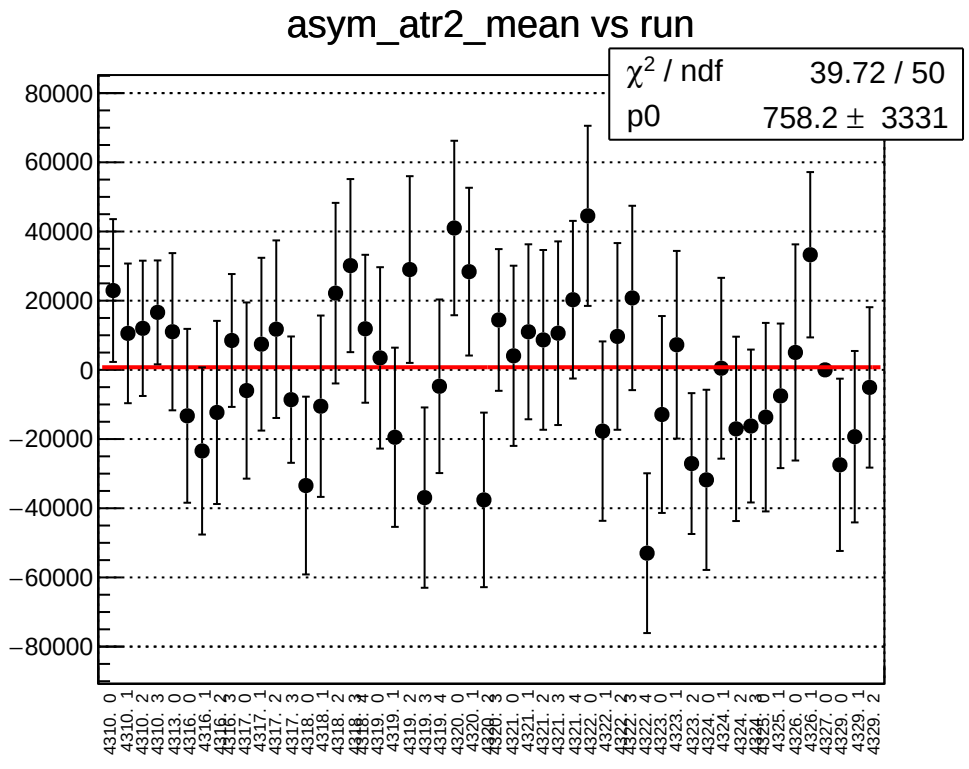
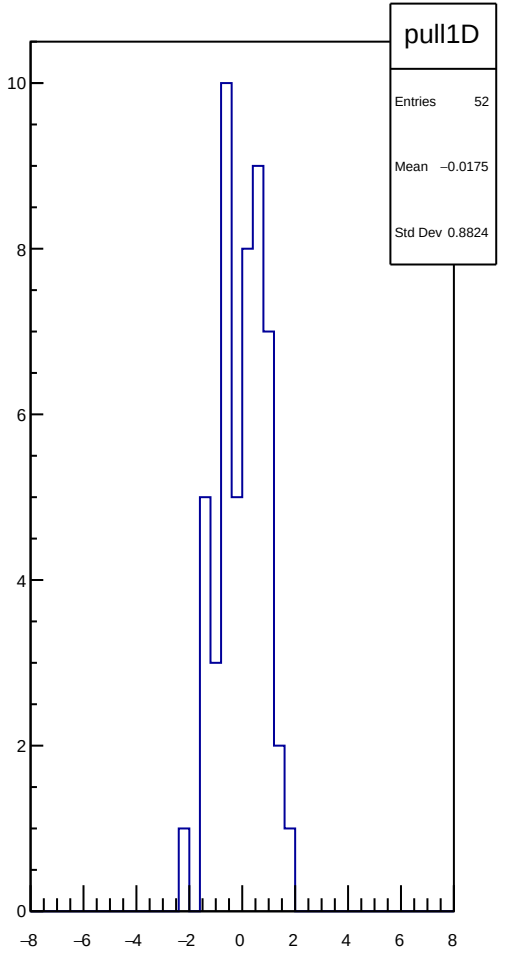
4329. 2

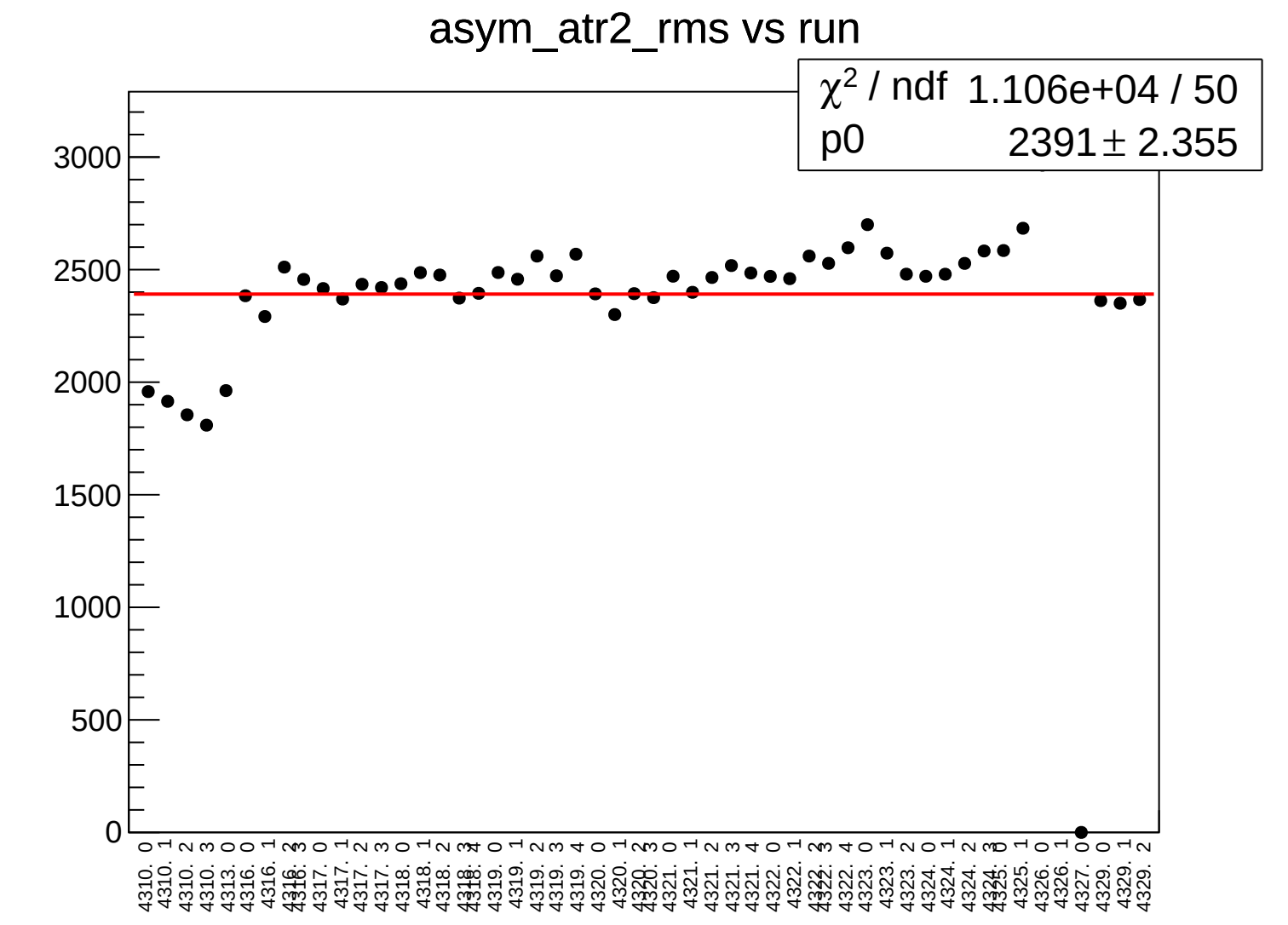

asym_atr2_correction_mean vs run
χ² / ndf 40.5 / 50
p0 969.4 ± 3279
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000

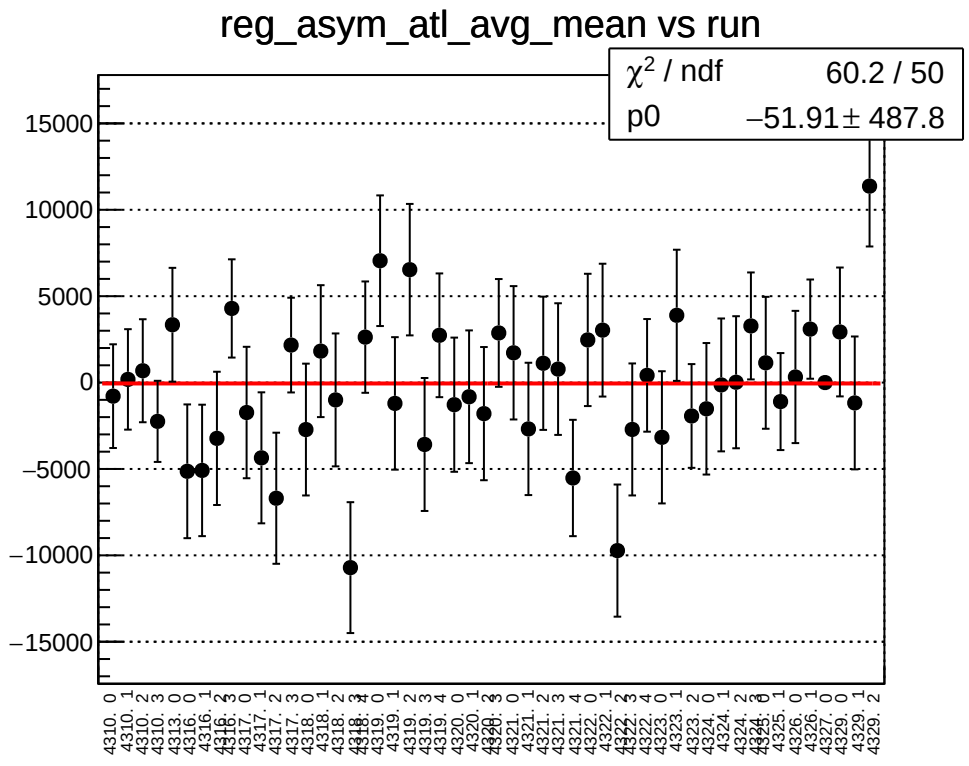

pull1D
Entries 52
Mean 0.01426
Std Dev 0.891
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

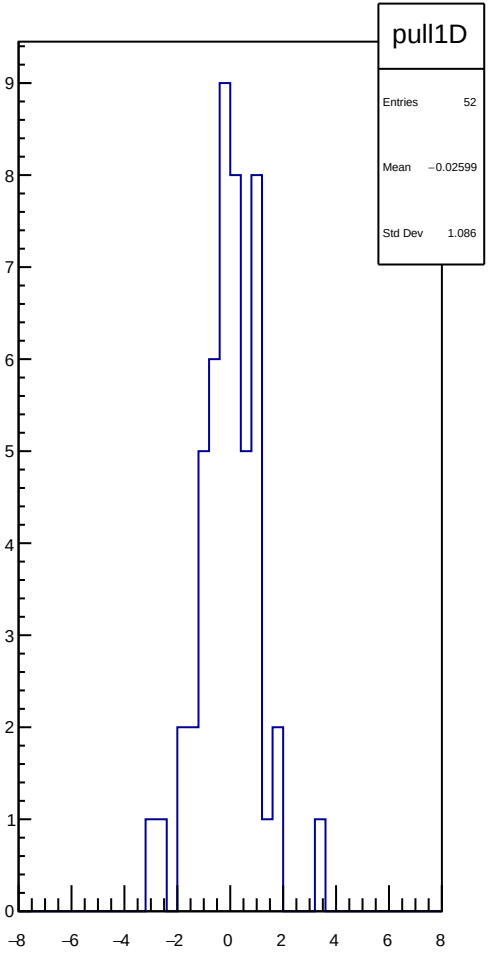

asym_atr2_correction_rms vs run
χ² / ndf 1.184e+04 / 50
p0 2353 ± 2.319
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

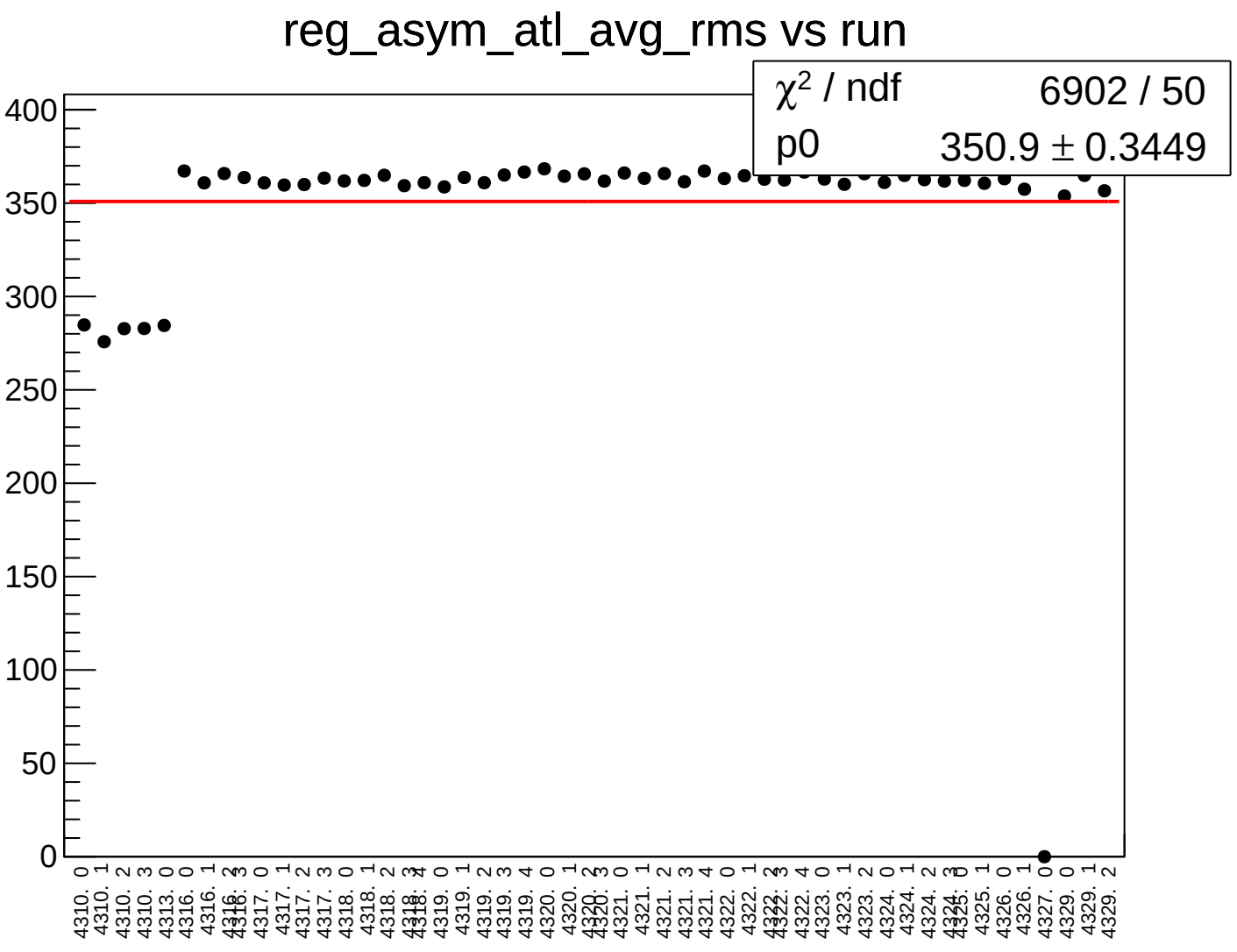

asym_atr2_mean vs run
χ² / ndf 39.72 / 50
p0 758.2 ± 3331
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

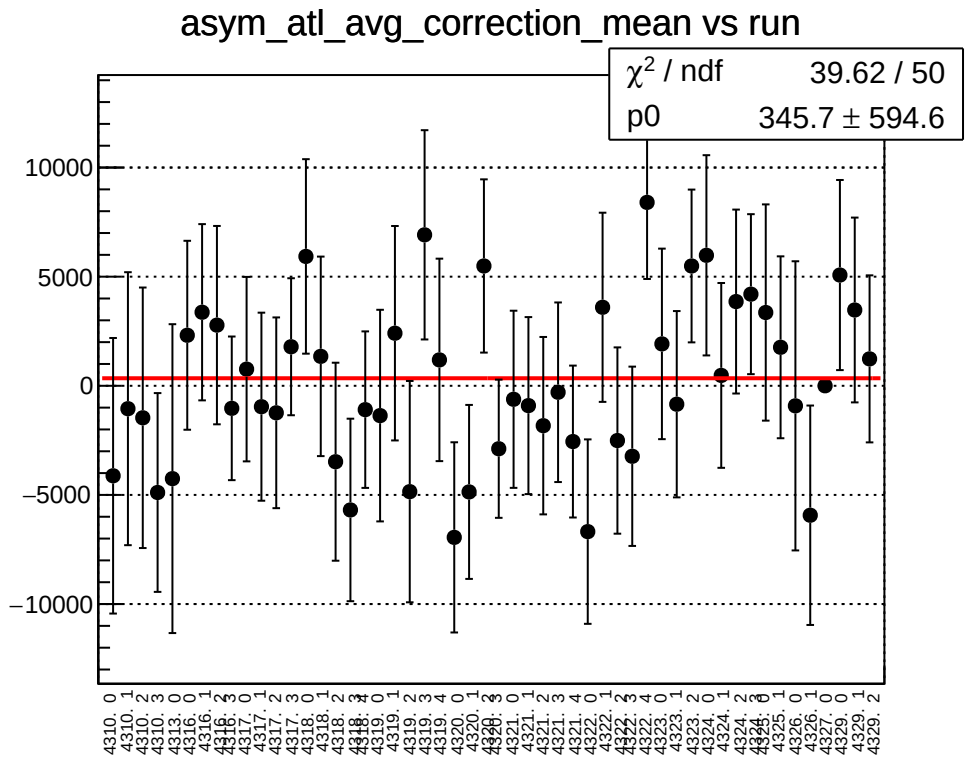

pull1D
Entries 52
Mean −0.0175
Std Dev 0.8824
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

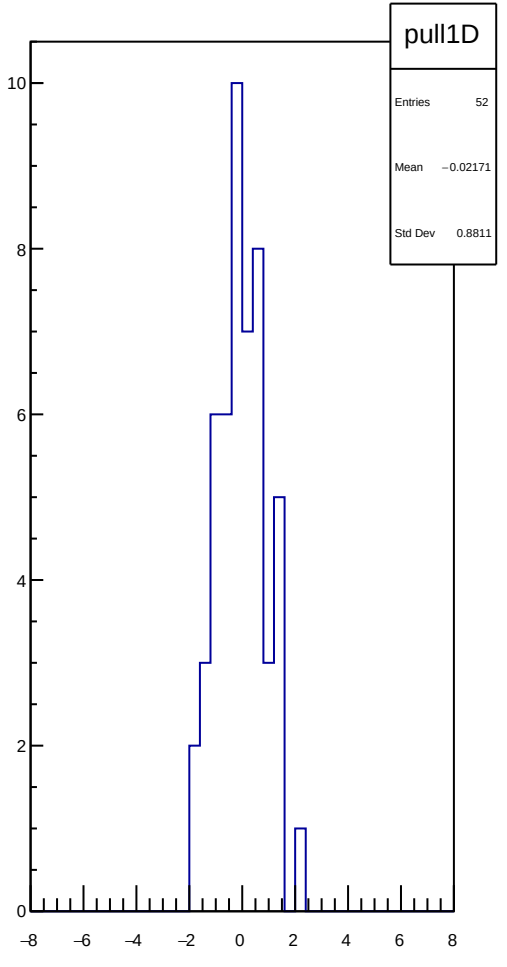

asym_atr2_rms vs run
χ² / ndf 1.106e+04 / 50
p0 2391 ± 2.355
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

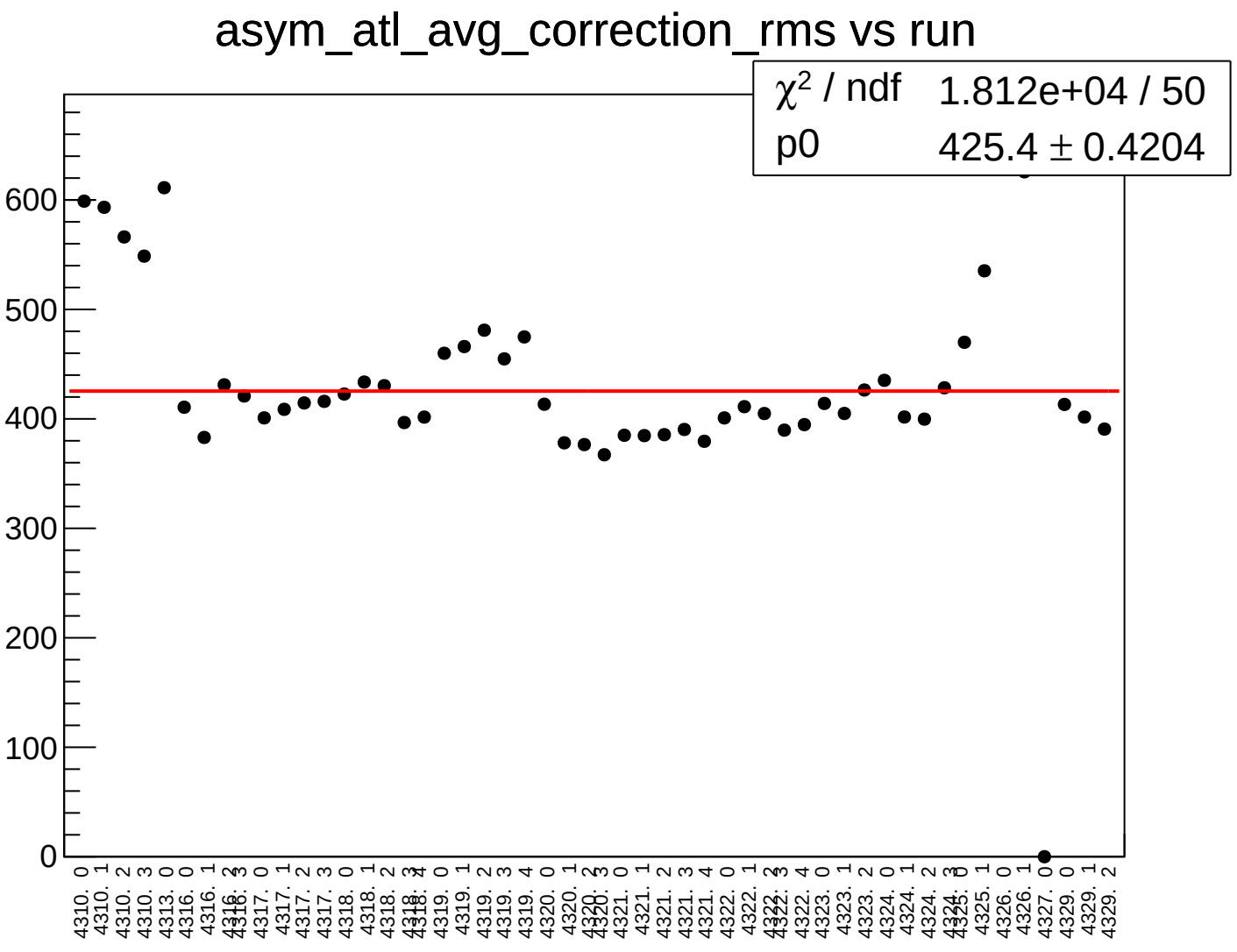

reg_asym_atl_avg_mean vs run
χ² / ndf 60.2 / 50
p0 −51.91 ± 487.8
15000
10000
5000
0
−5000
−10000
−15000

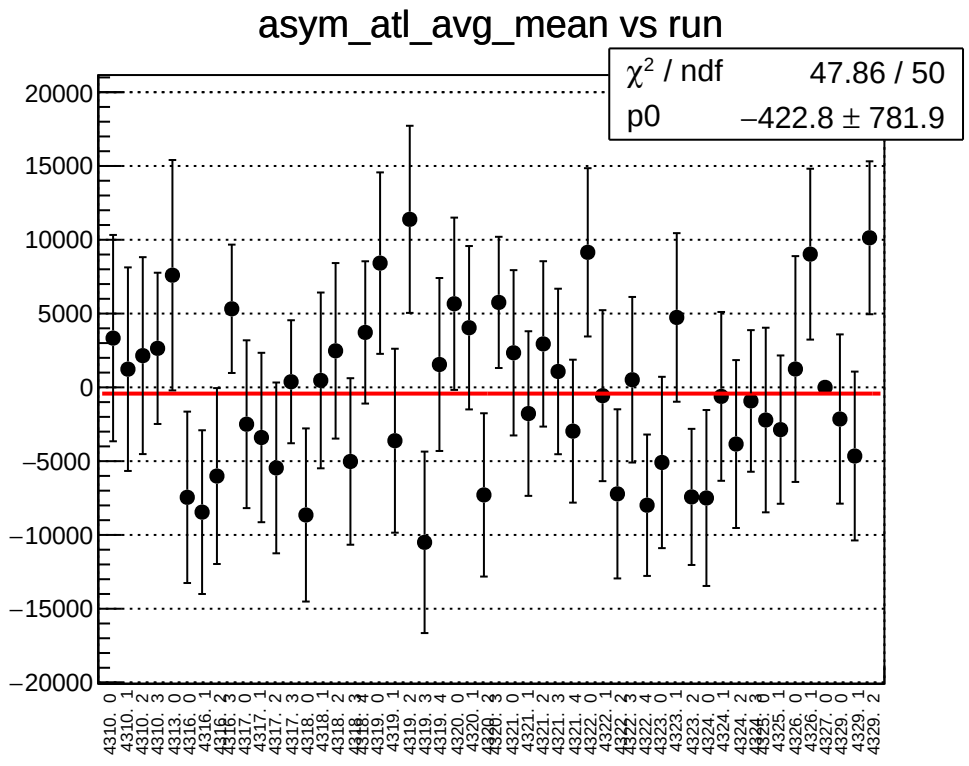

pull1D
Entries 52
Mean −0.02599
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

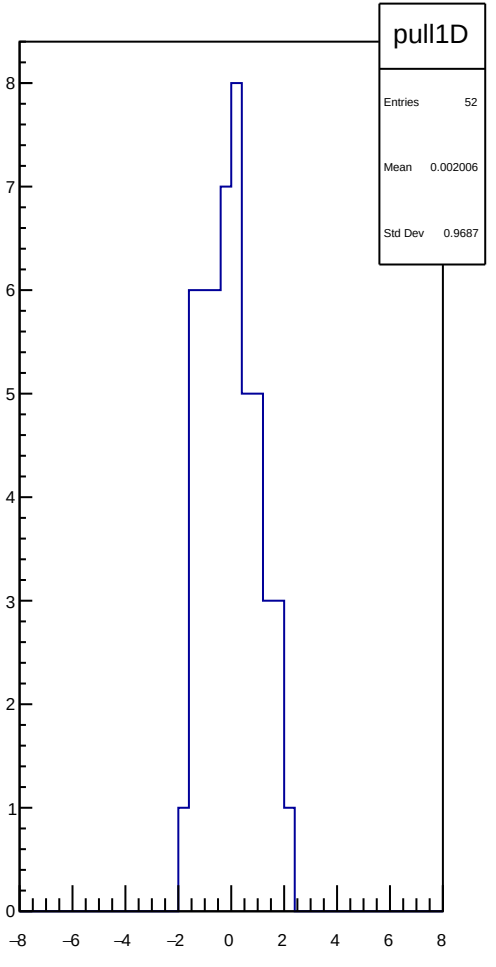

reg_asym_atl_avg_rms vs run
χ² / ndf 6902 / 50
p0 350.9 ± 0.3449
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

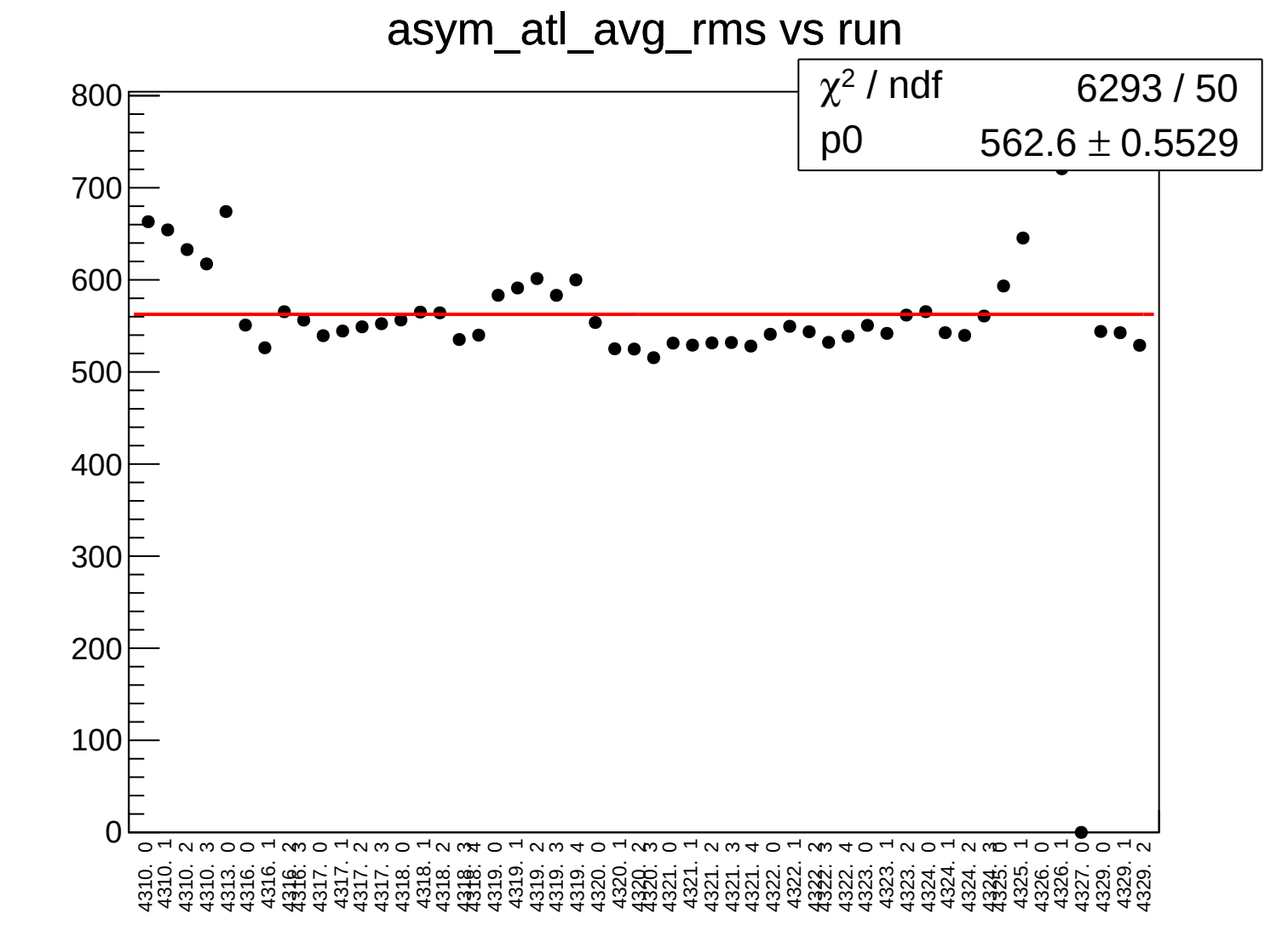

asym_atl_avg_correction_mean vs run
χ² / ndf 39.62 / 50
p0 345.7 ± 594.6
10000
5000
0
−5000
−10000

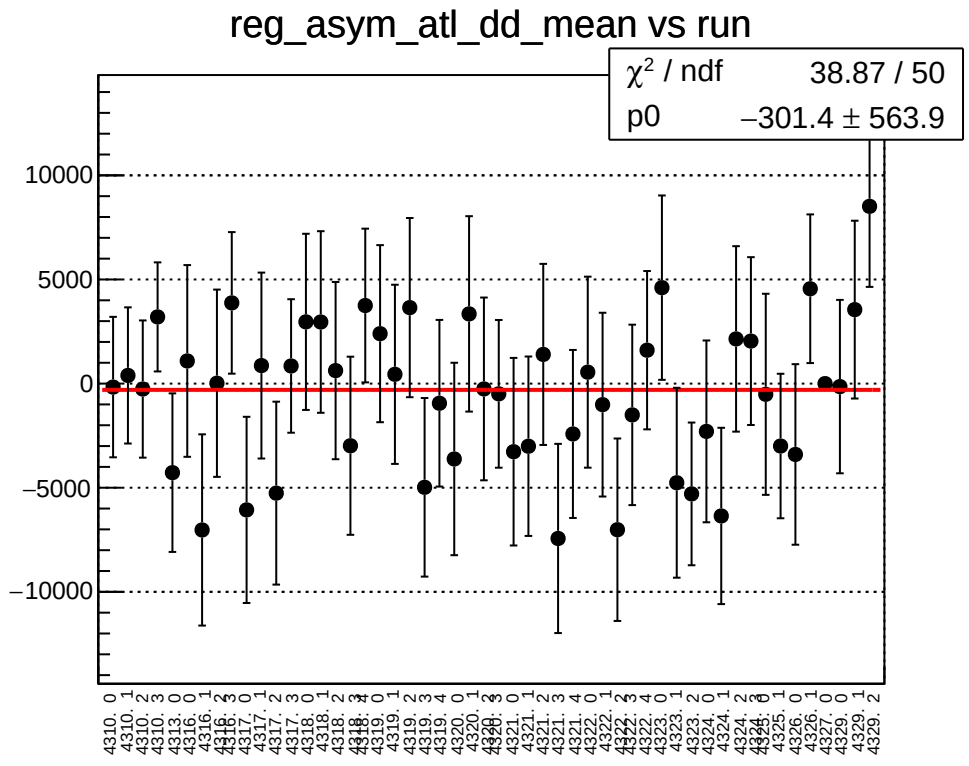

pull1D
Entries 52
Mean −0.02171
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

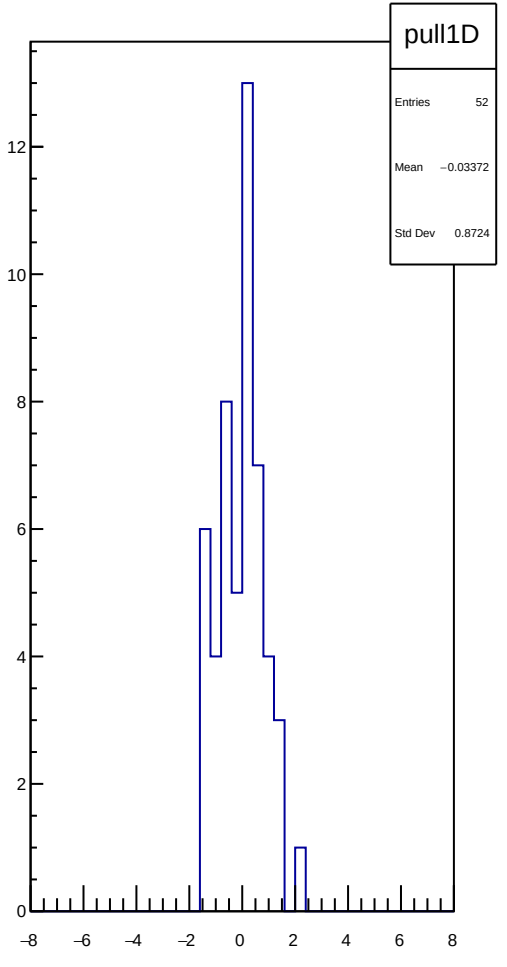

asym_atl_avg_correction_rms vs run
χ² / ndf 1.812e+04 / 50
p0 425.4 ± 0.4204
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

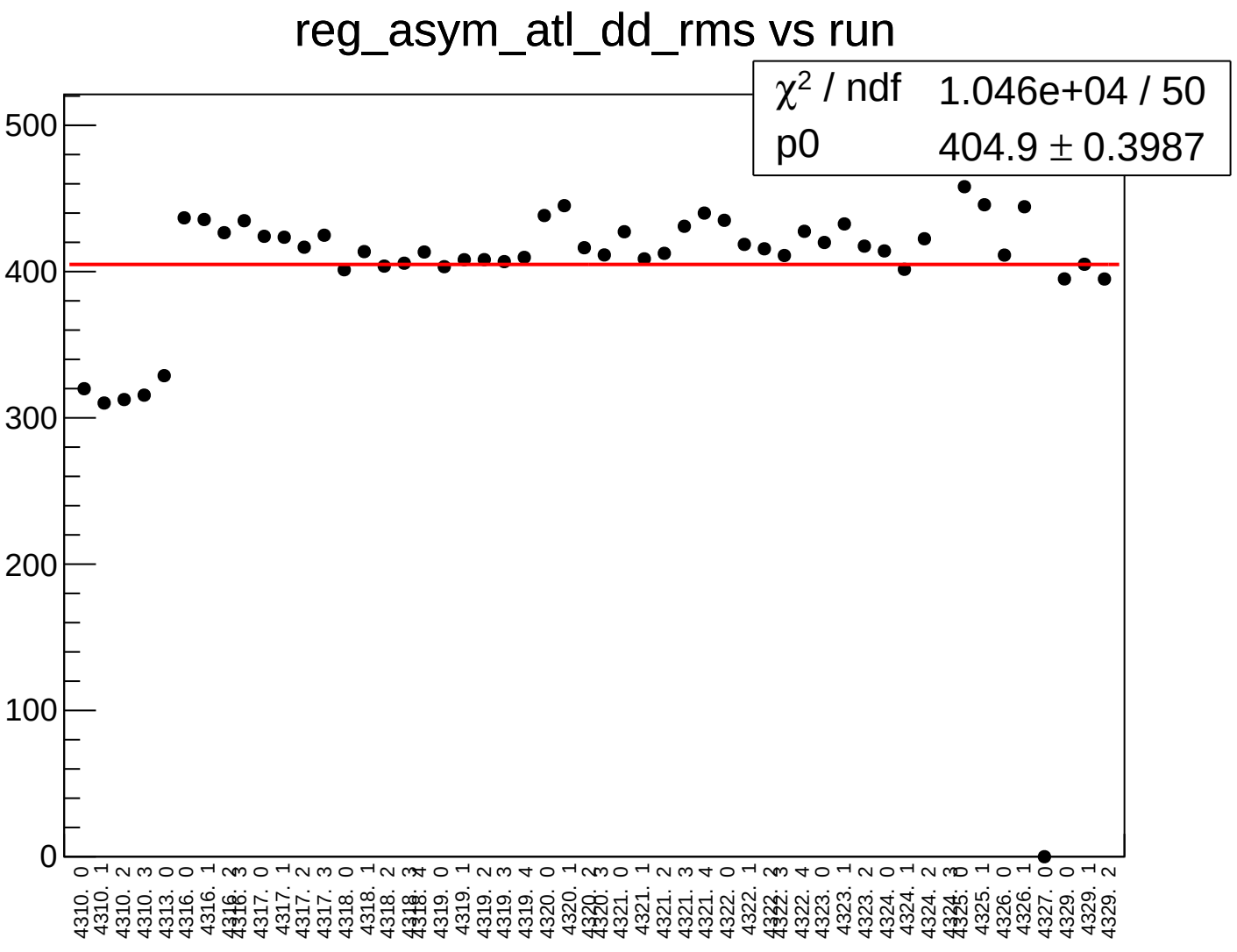

asym_atl_avg_mean vs run
χ² / ndf 47.86 / 50
p0 −422.8 ± 781.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000

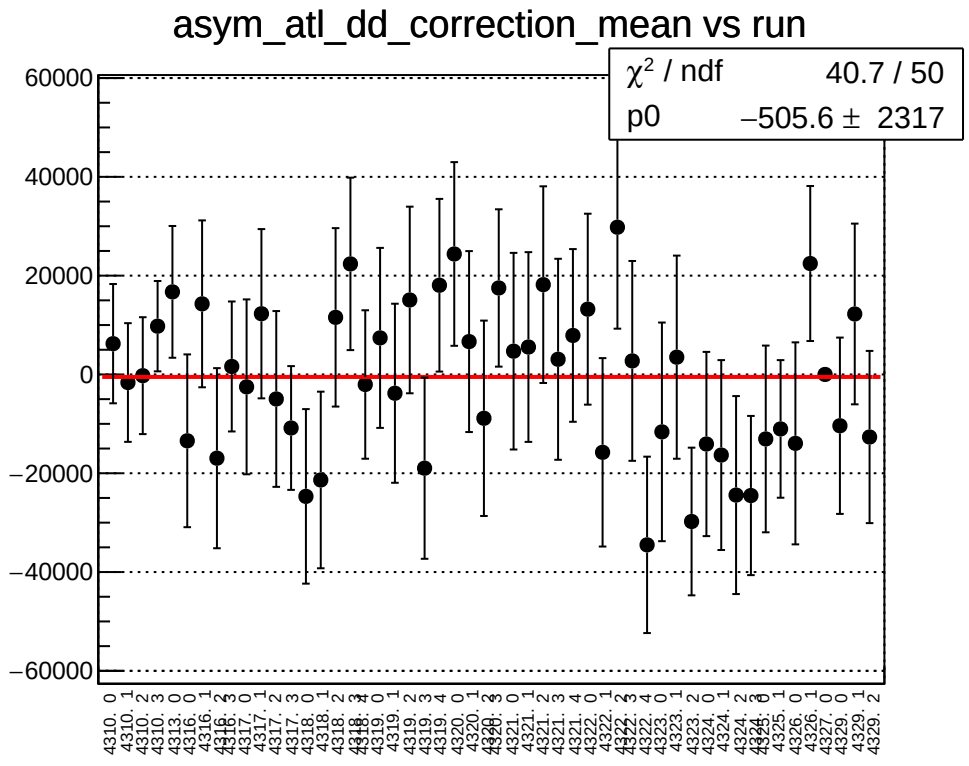

pull1D
Entries 52
Mean 0.002006
Std Dev 0.9687
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

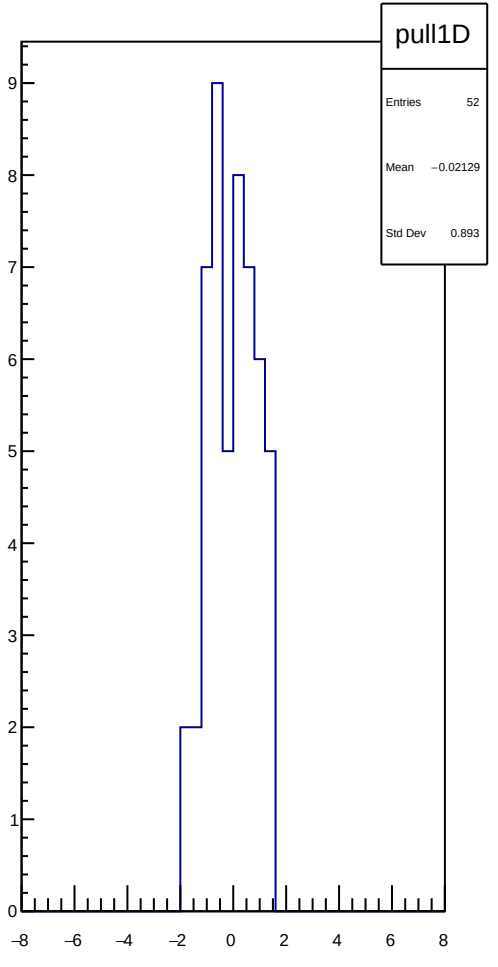

asym_atl_avg_rms vs run
χ² / ndf 6293 / 50
p0 562.6 ± 0.5529
800
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

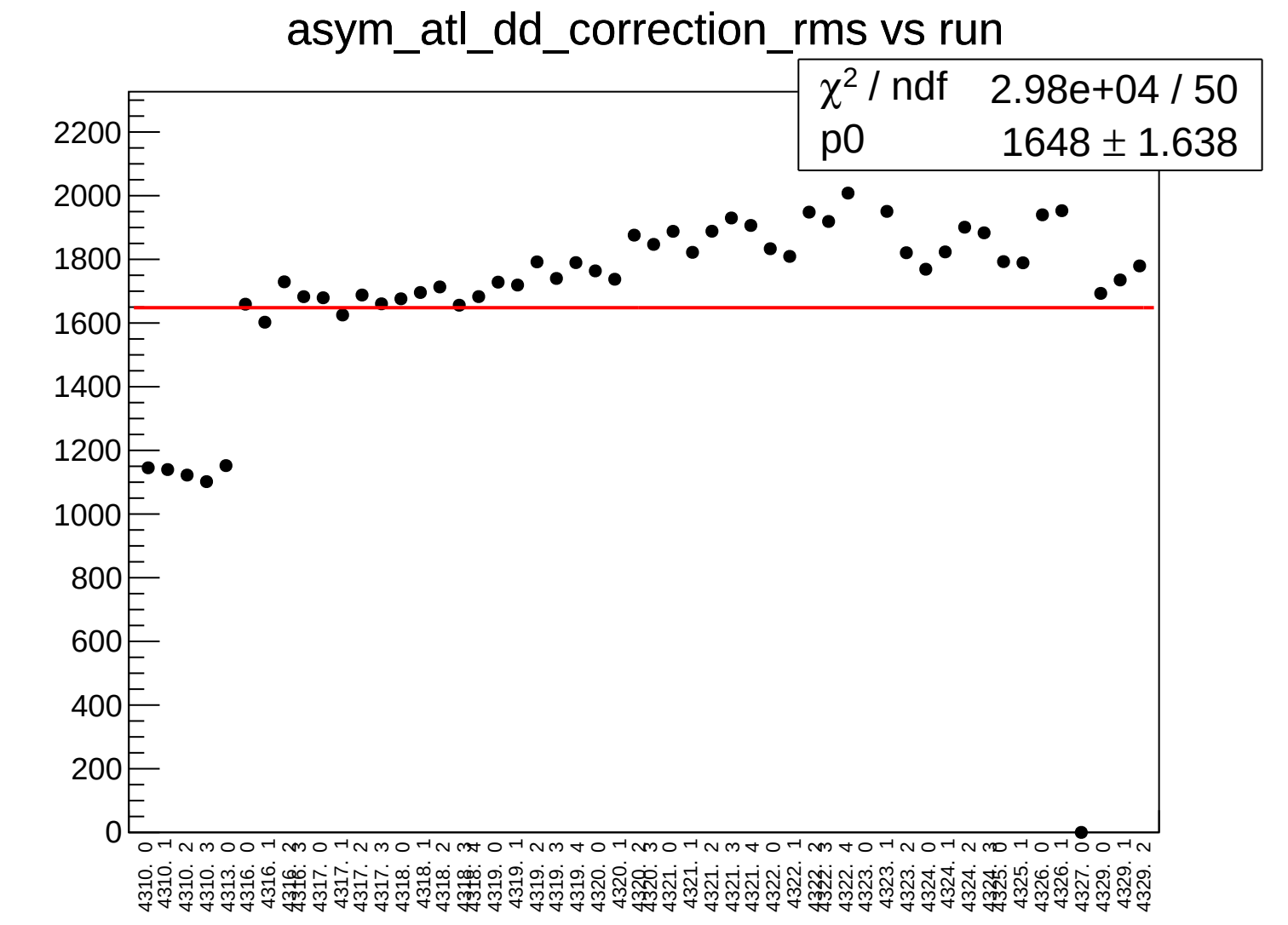

reg_asym_atl_dd_mean vs run
χ² / ndf 38.87 / 50
p0 −301.4 ± 563.9
10000
5000
0
−5000
−10000

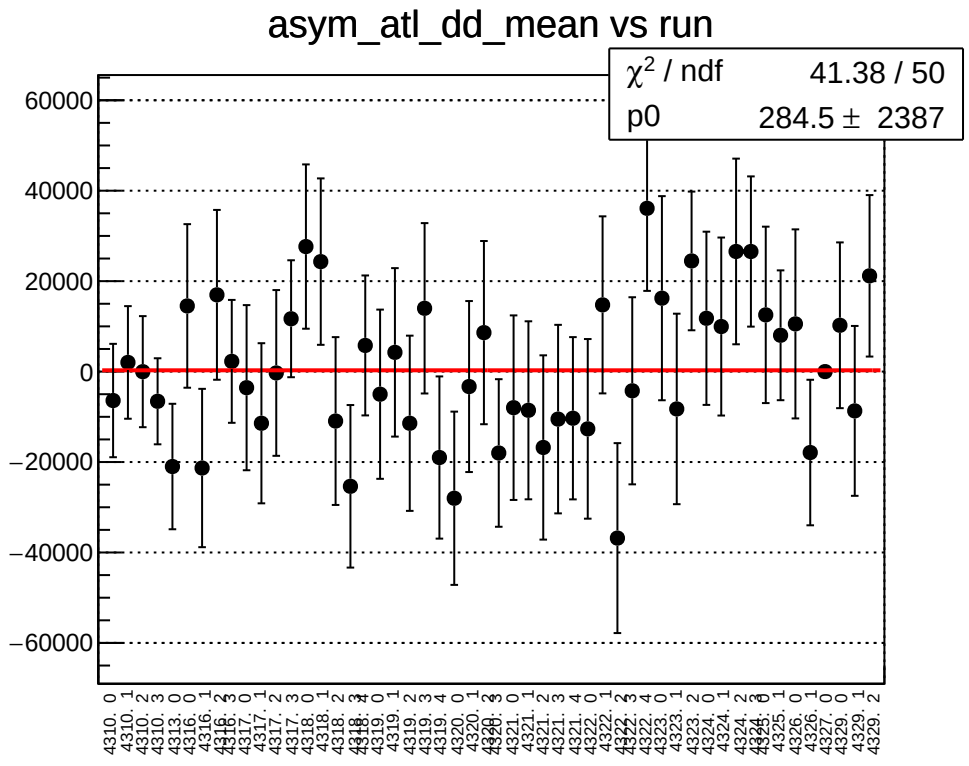

pull1D
Entries 52
Mean −0.03372
Std Dev 0.8724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

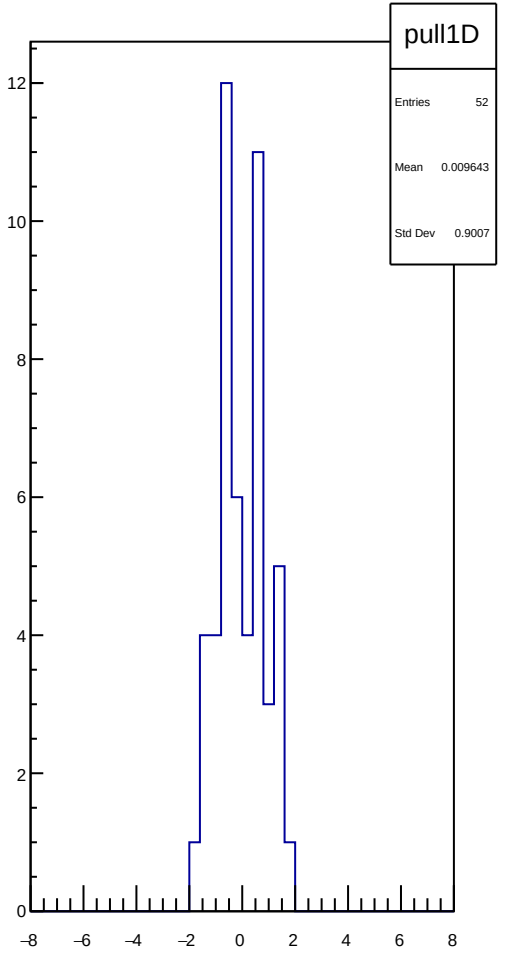

reg_asym_atl_dd_rms vs run
χ² / ndf 1.046e+04 / 50
p0 404.9 ± 0.3987
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

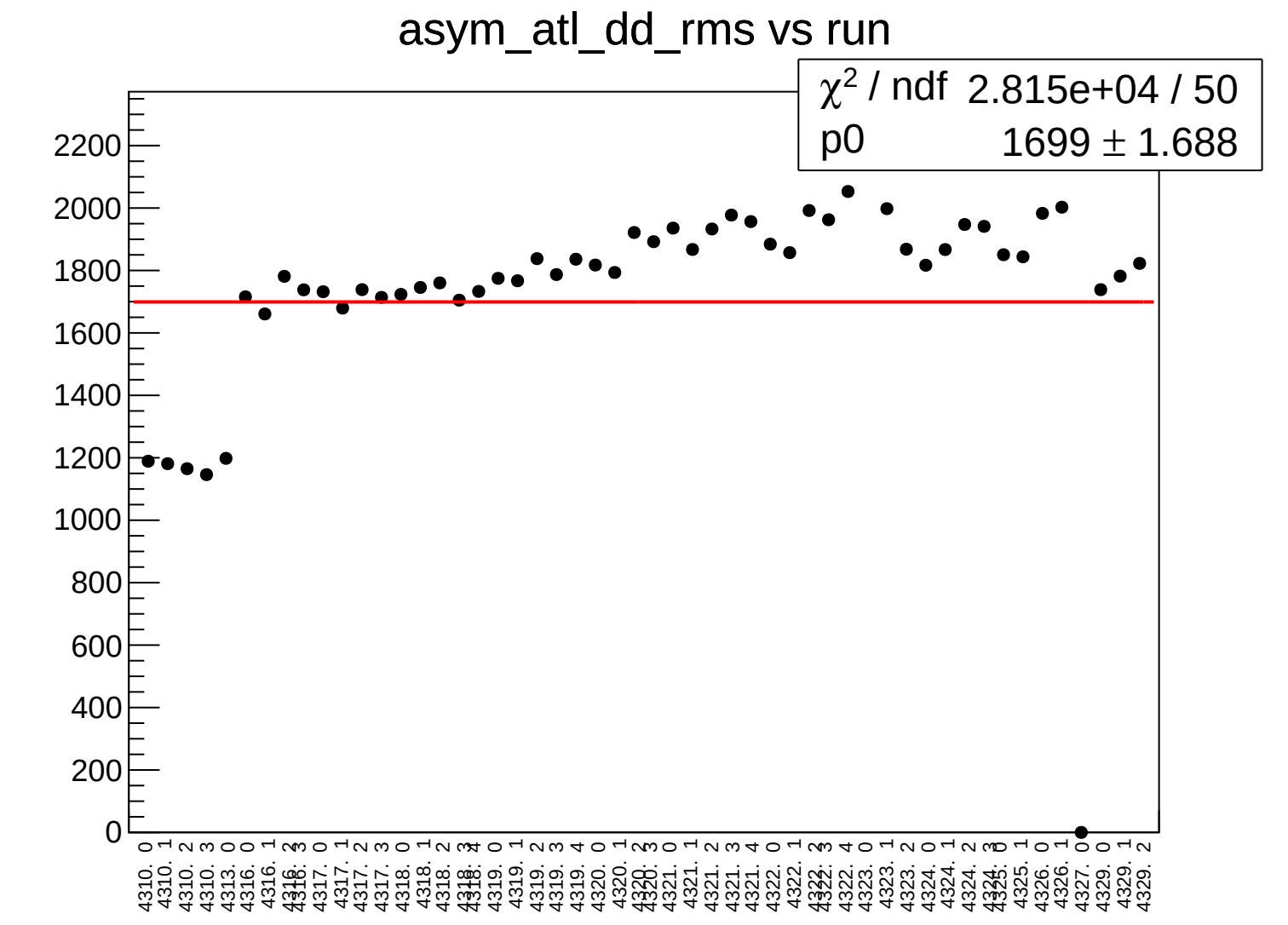

asym_atl_dd_correction_mean vs run
χ² / ndf 40.7 / 50
p0 −505.6 ± 2317
60000
40000
20000
0
−20000
−40000
−60000

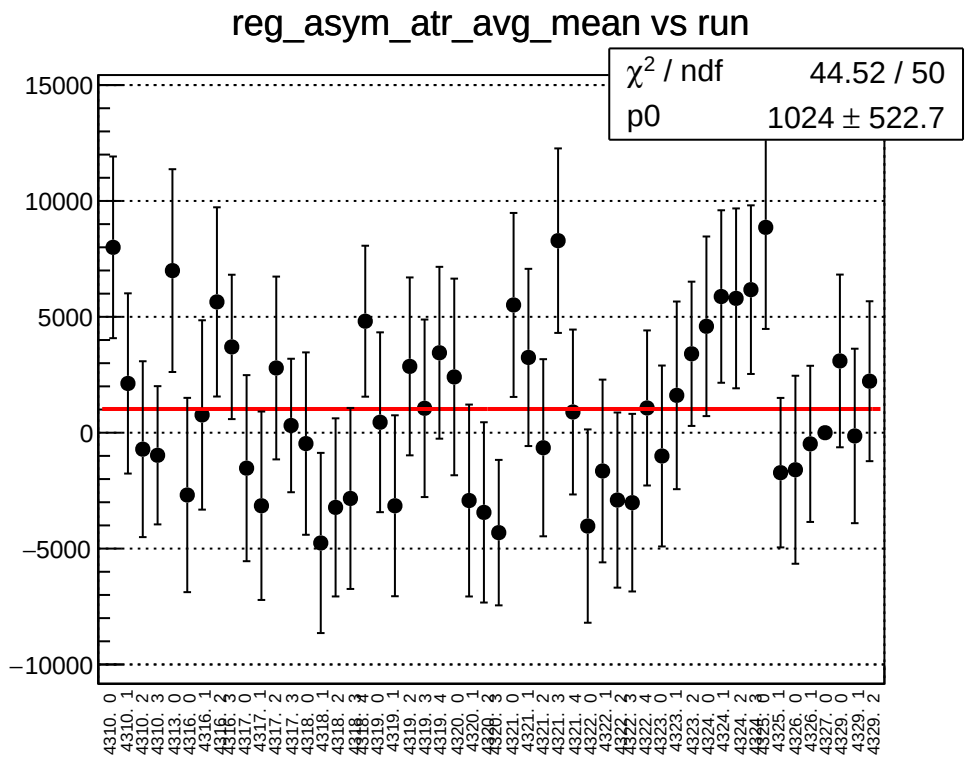

pull1D
Entries 52
Mean −0.02129
Std Dev 0.893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

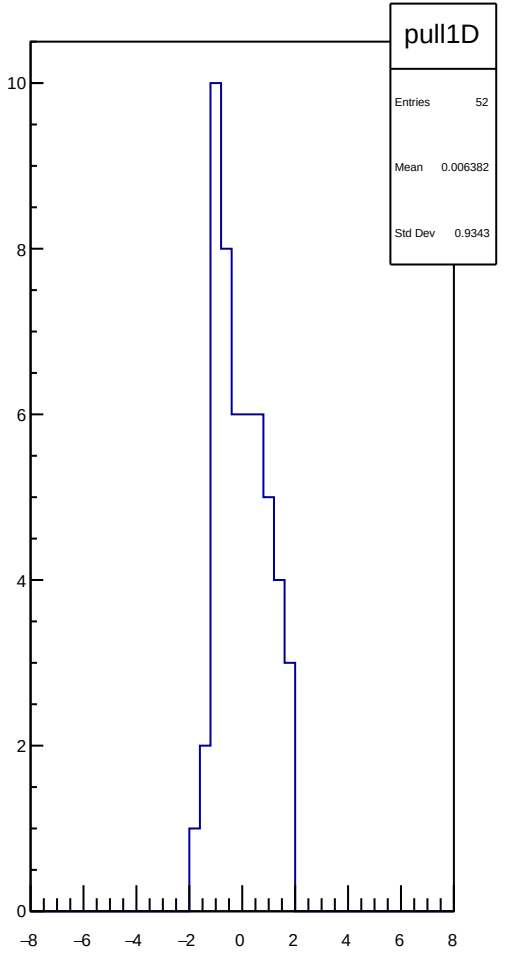

asym_atl_dd_correction_rms vs run
χ² / ndf 2.98e+04 / 50
p0 1648 ± 1.638
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

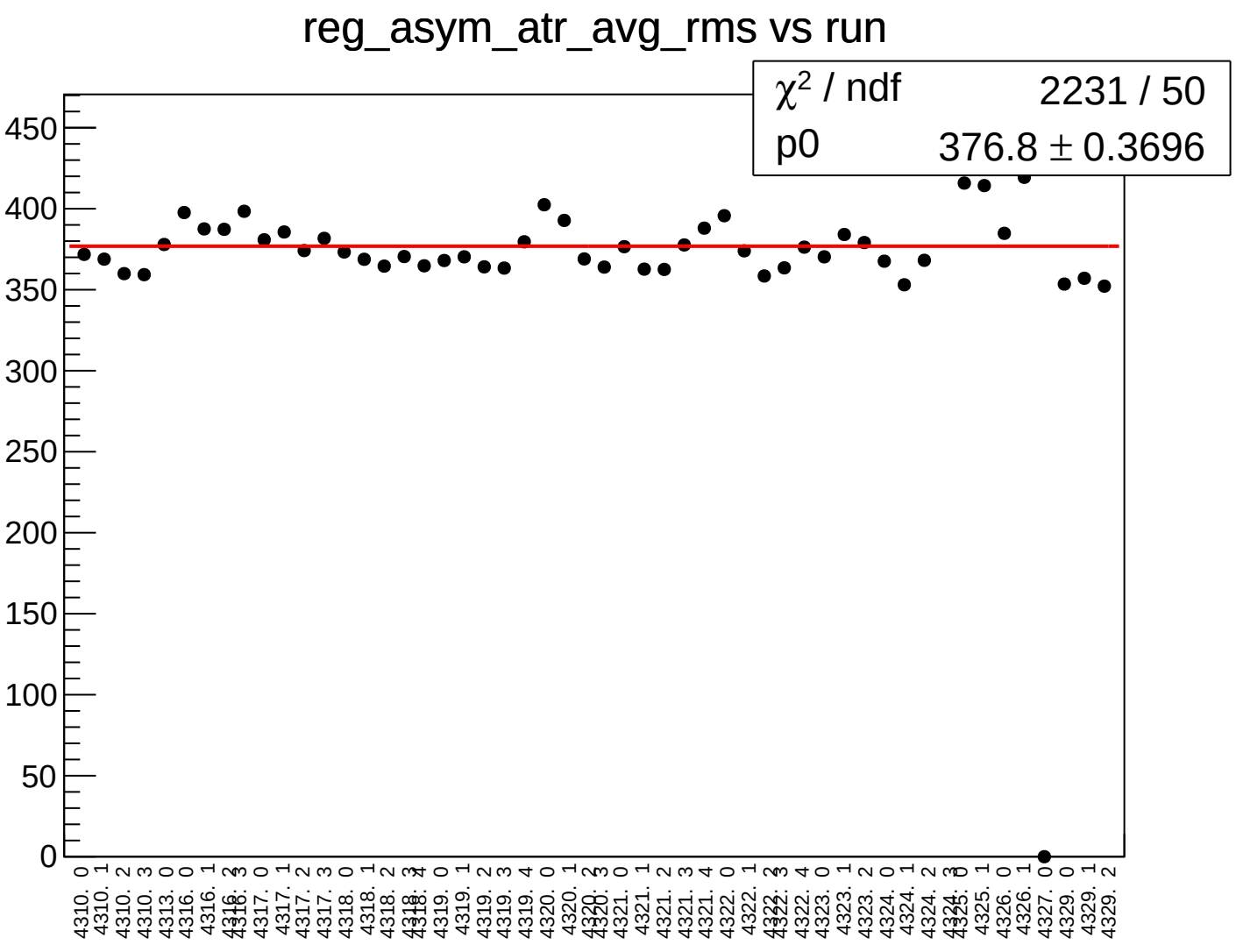

asym_atl_dd_mean vs run
χ² / ndf 41.38 / 50
p0 284.5 ± 2387
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean 0.009643
Std Dev 0.9007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_rms vs run
χ² / ndf 2.815e+04 / 50
p0 1699 ± 1.688
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_atr_avg_mean vs run
χ² / ndf 44.52 / 50
p0 1024 ± 522.7
15000
10000
5000
0
−5000
−10000


pull1D
Entries 52
Mean 0.006382
Std Dev 0.9343
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_rms vs run
χ² / ndf 2231 / 50
p0 376.8 ± 0.3696
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
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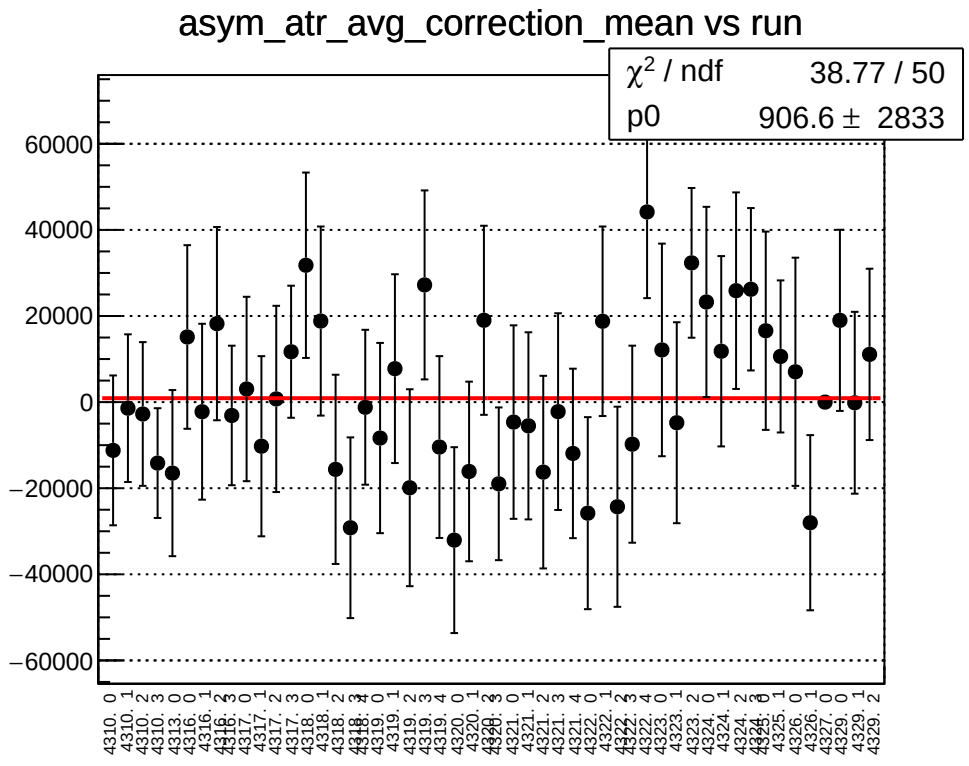
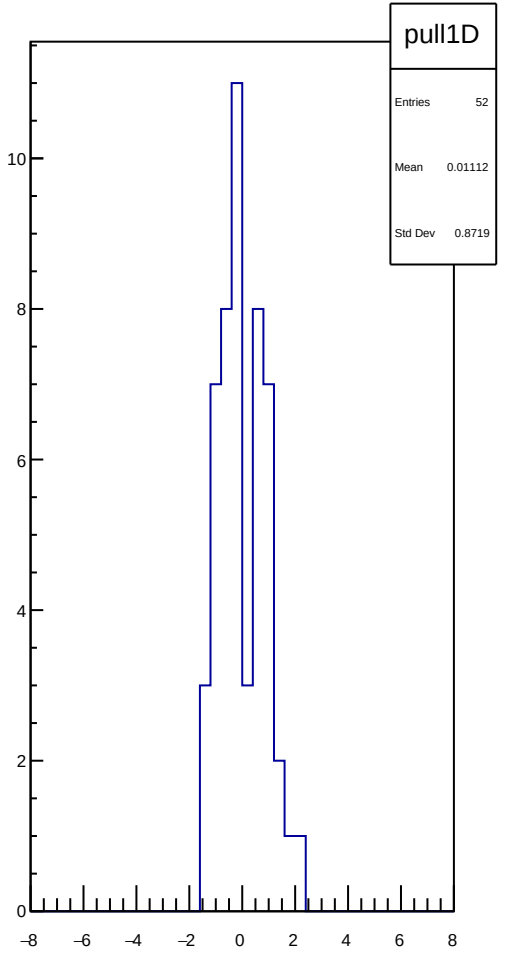
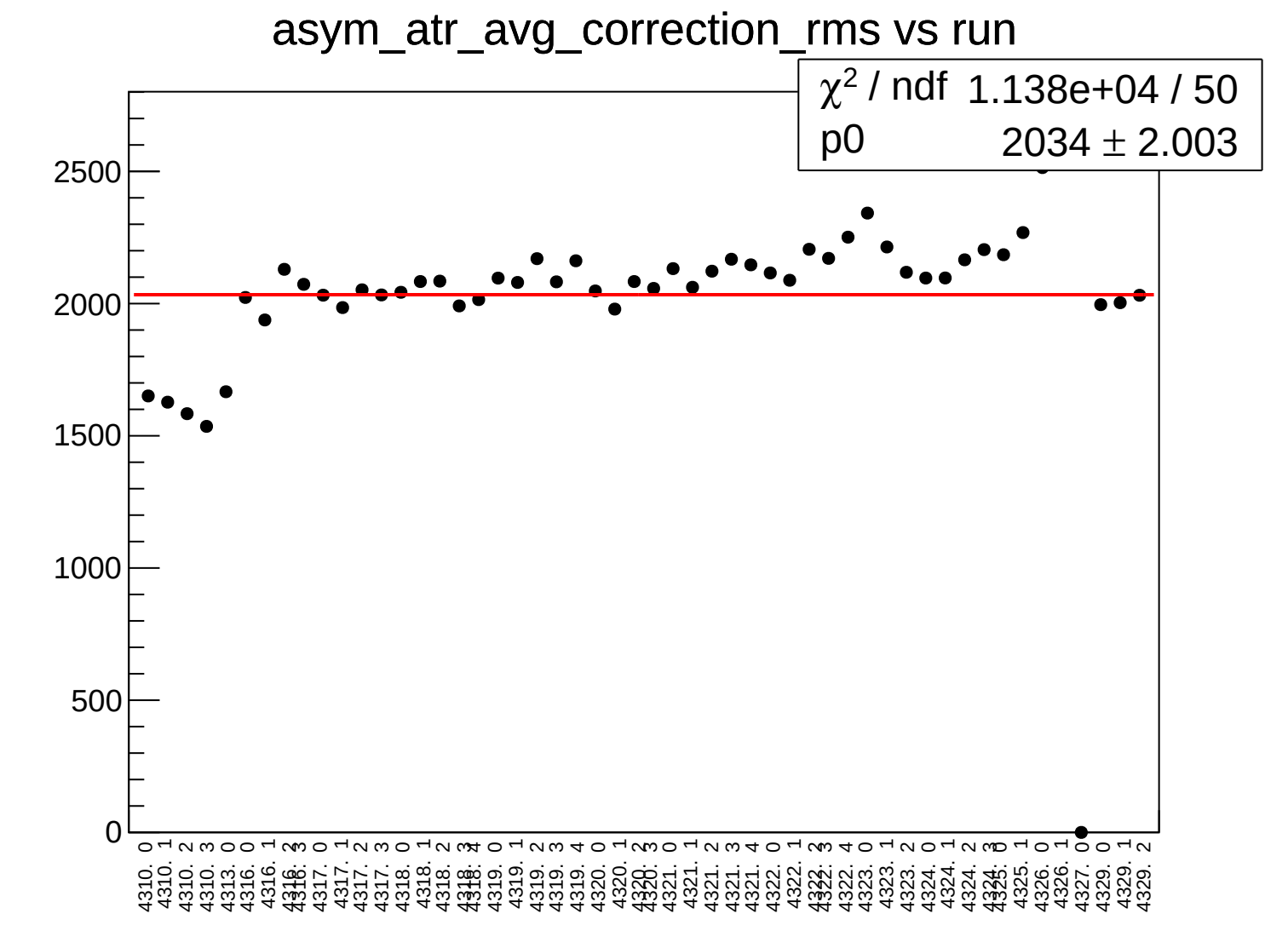
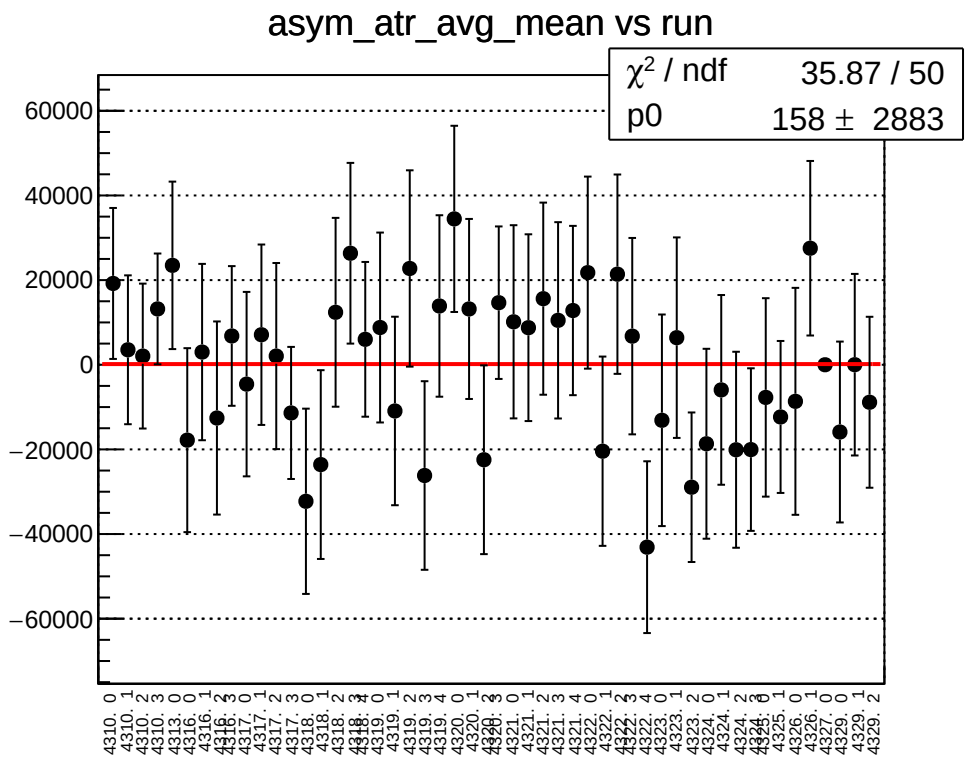
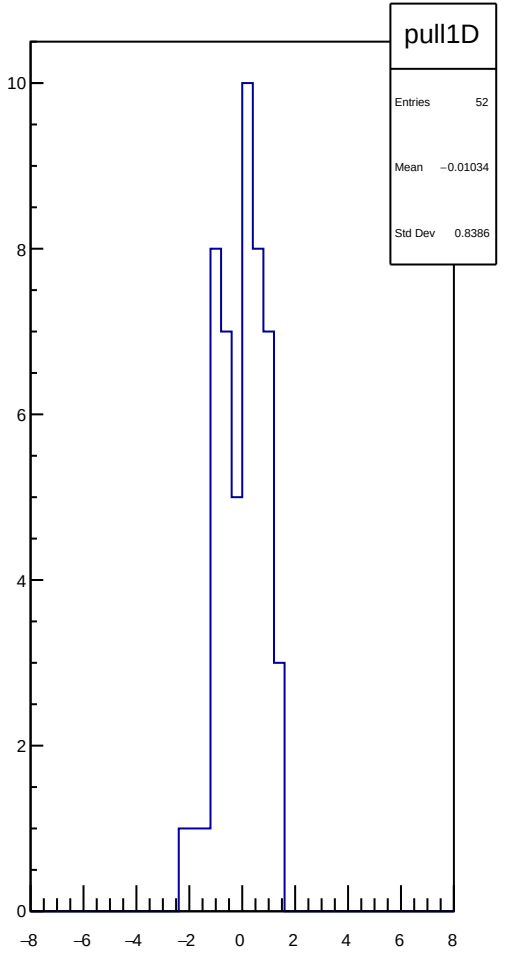
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_atr_avg_correction_mean vs run
χ² / ndf 38.77 / 50
p0 906.6 ± 2833
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean 0.01112
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
χ² / ndf 1.138e+04 / 50
p0 2034 ± 2.003
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_atr_avg_mean vs run
χ² / ndf 35.87 / 50
p0 158 ± 2883
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean −0.01034
Std Dev 0.8386
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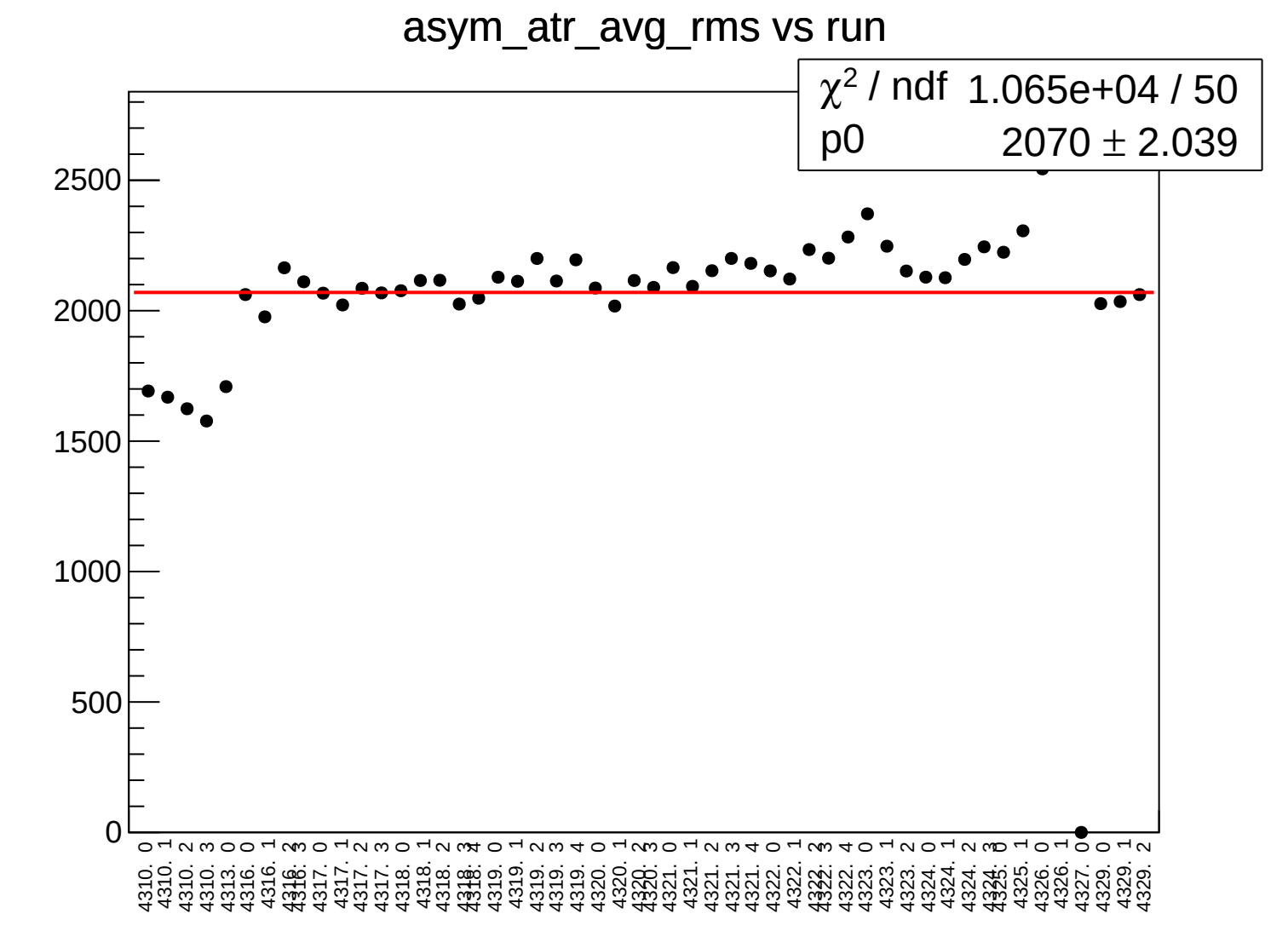
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_rms vs run
χ² / ndf 1.065e+04 / 50
p0 2070 ± 2.039
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
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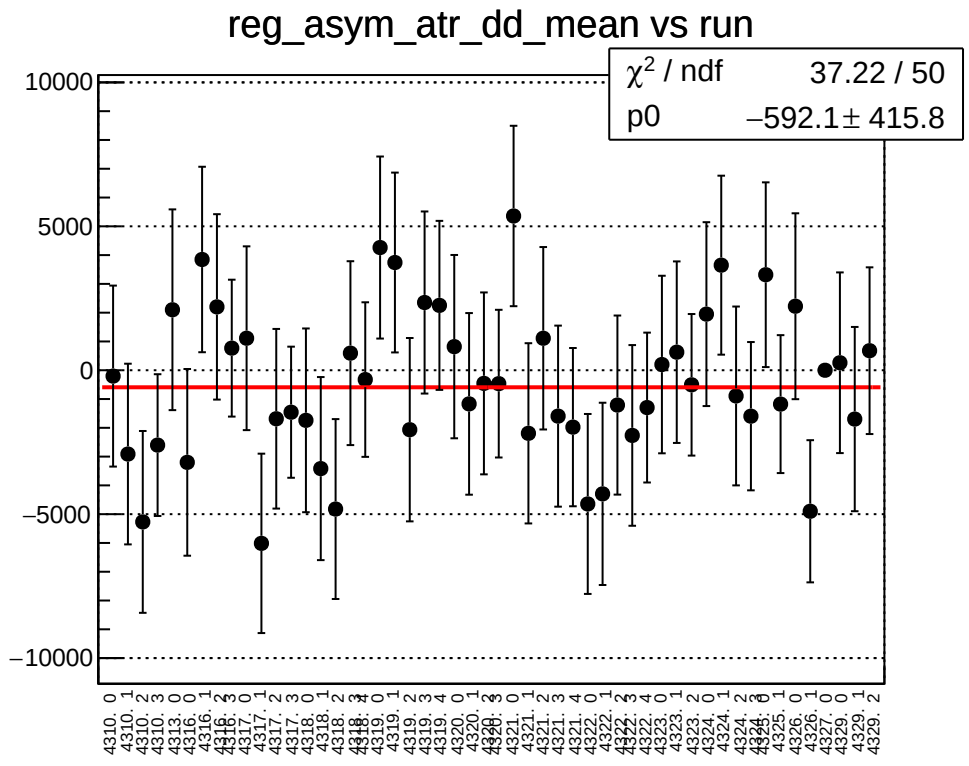
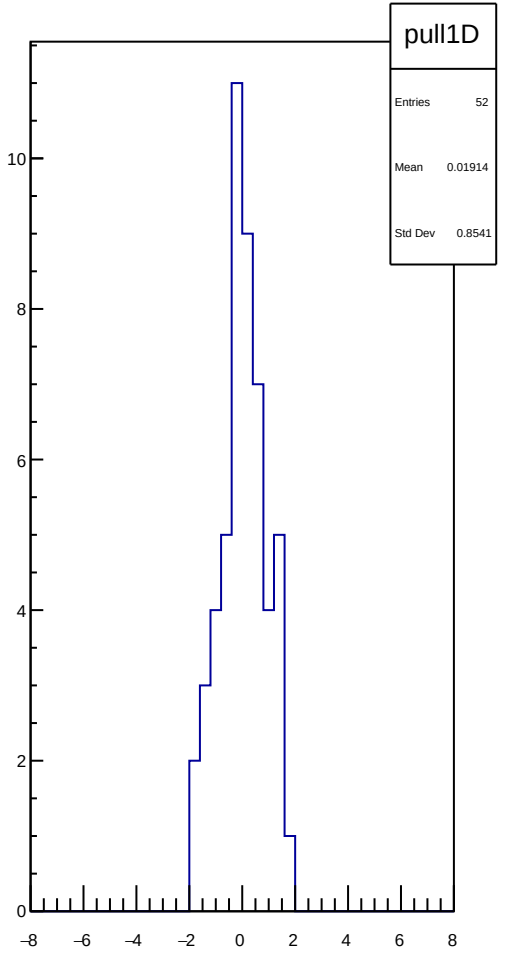
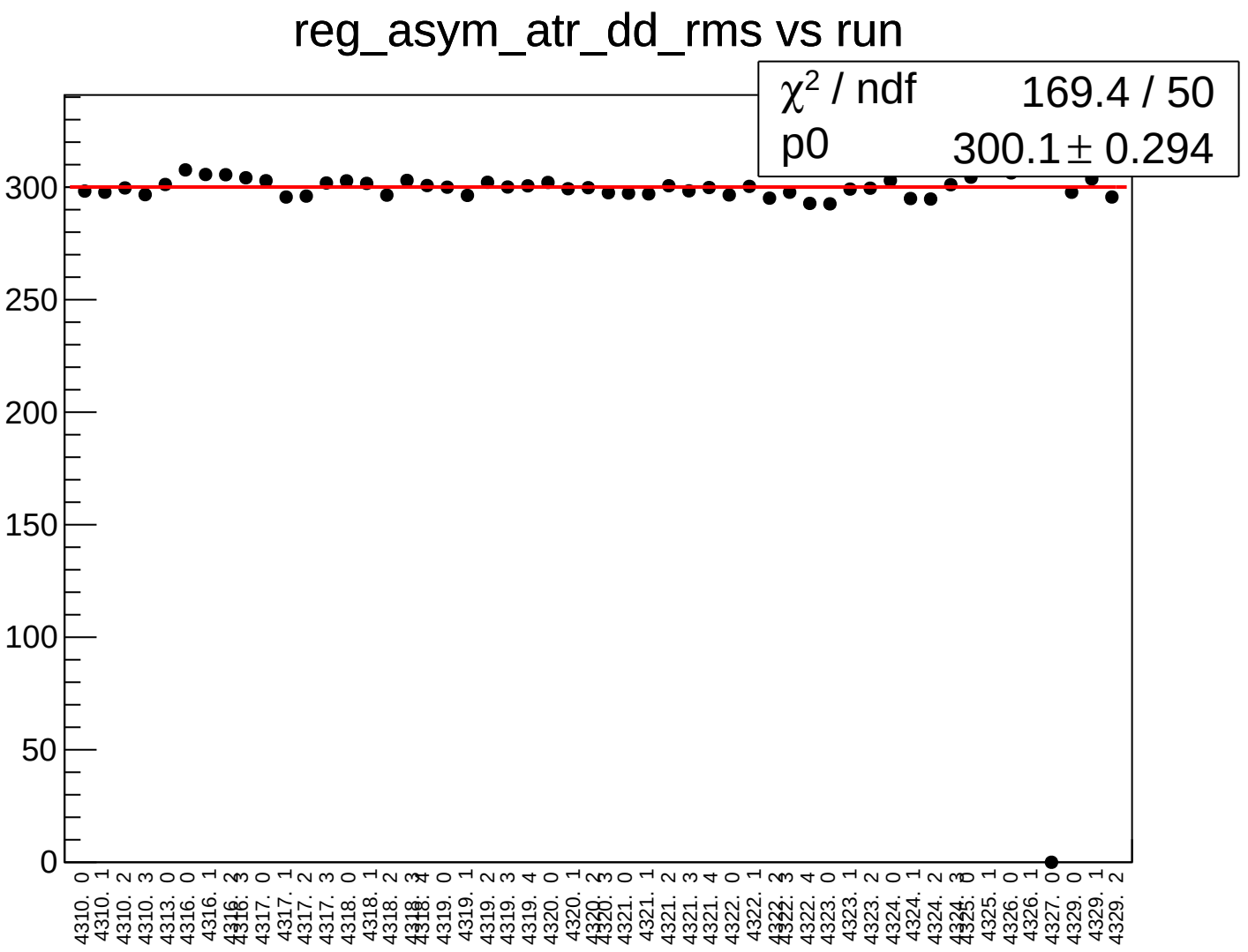
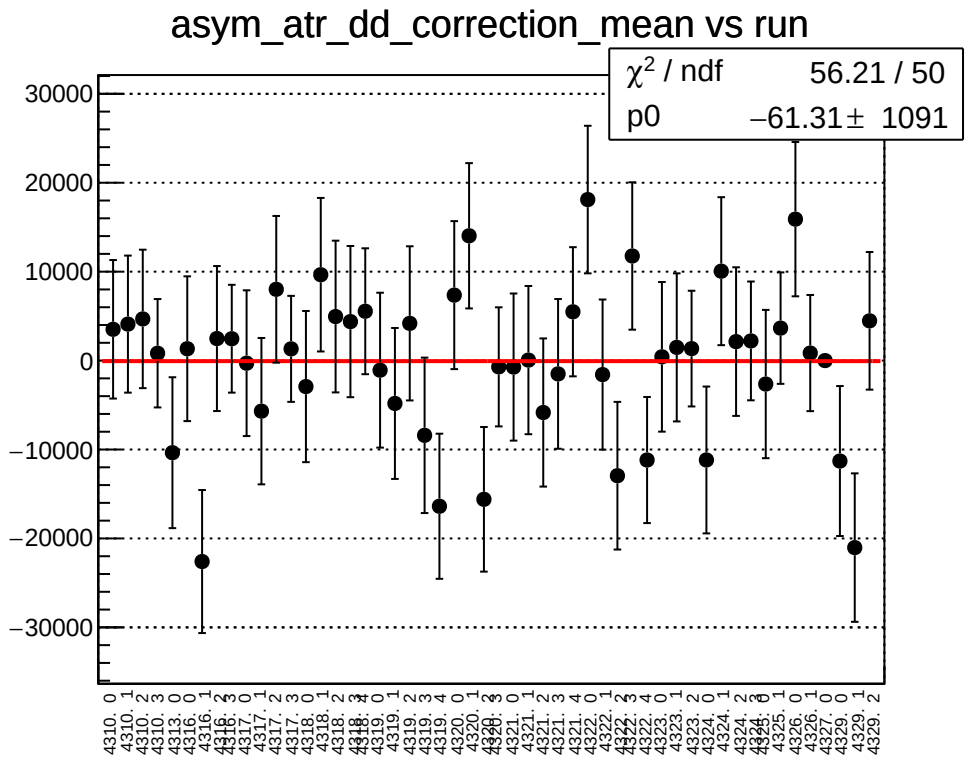
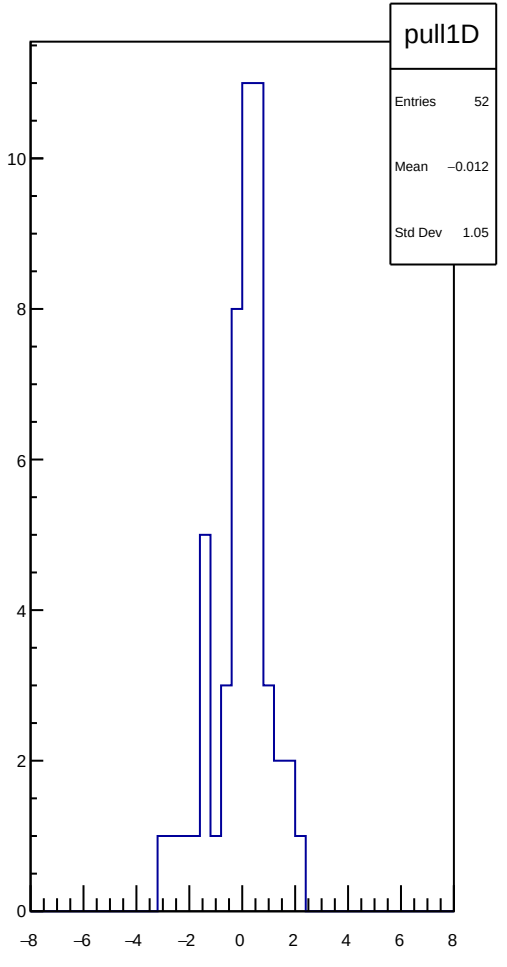
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

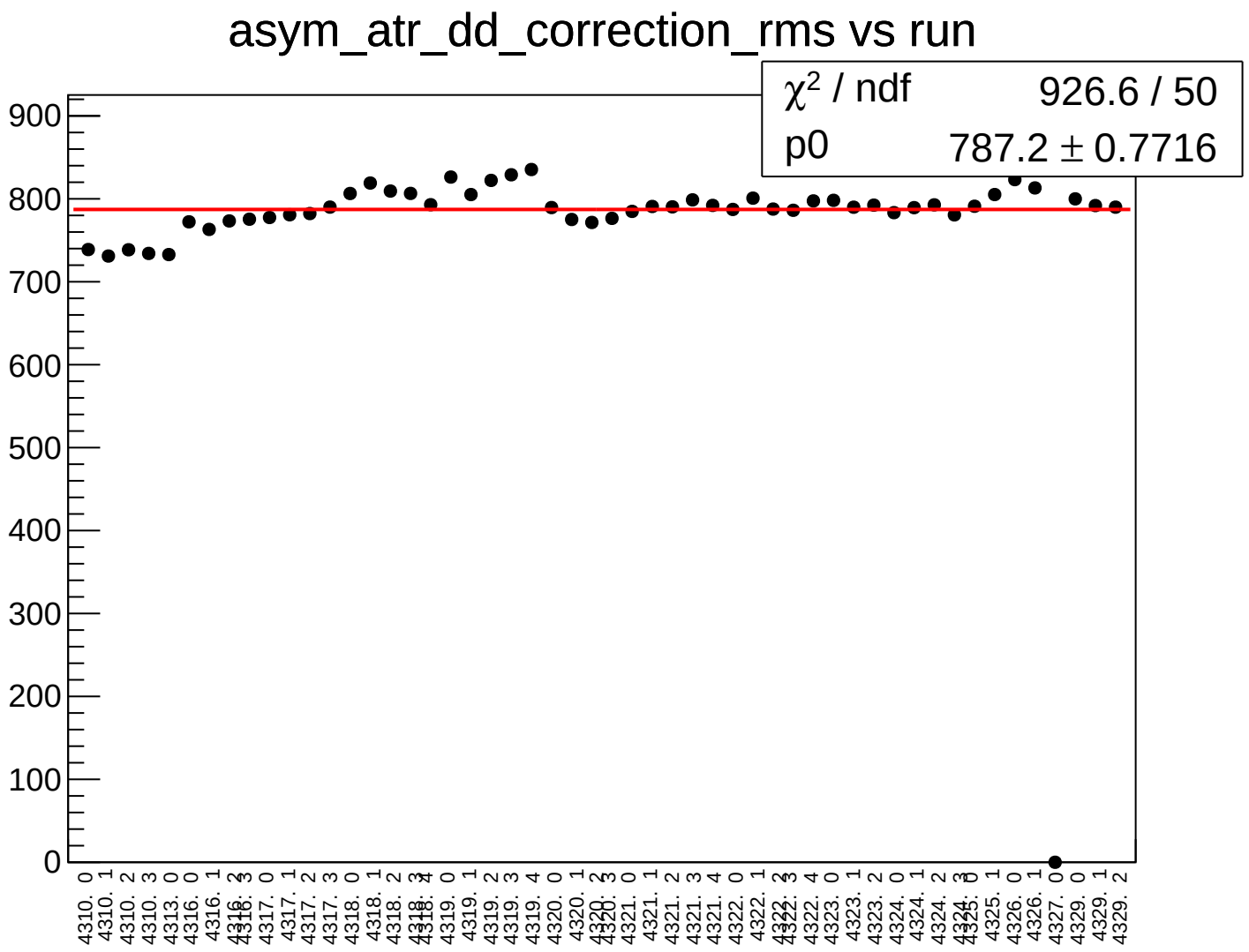

reg_asym_atr_dd_mean vs run
χ² / ndf 37.22 / 50
p0 −592.1± 415.8
10000
5000
0
−5000
−10000

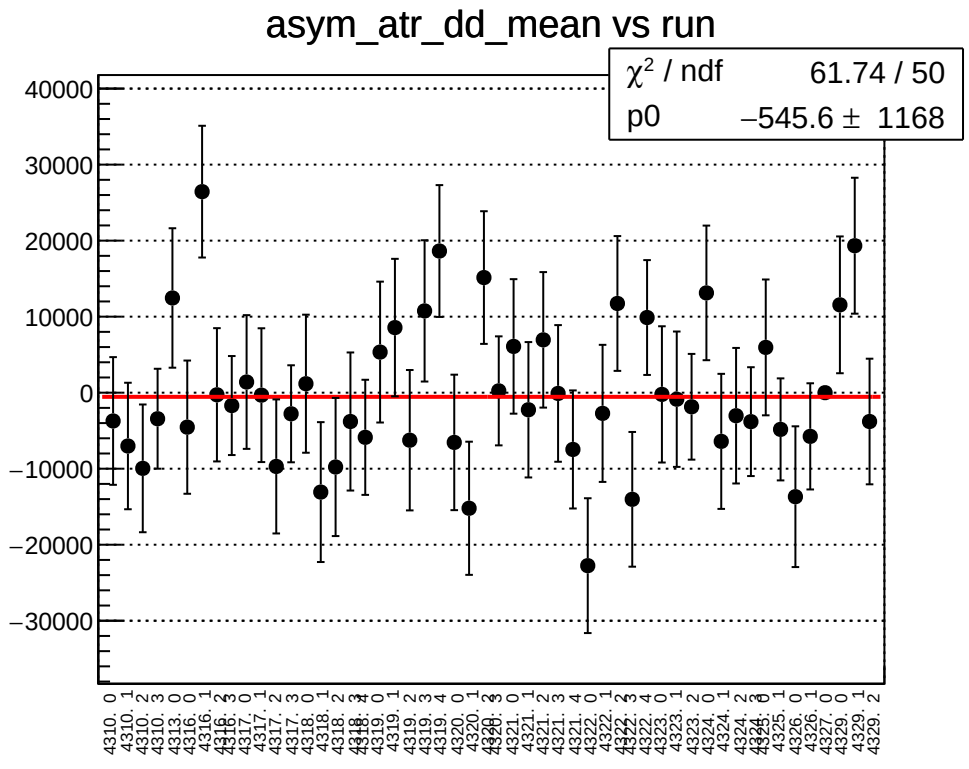

pull1D
Entries 52
Mean 0.01914
Std Dev 0.8541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

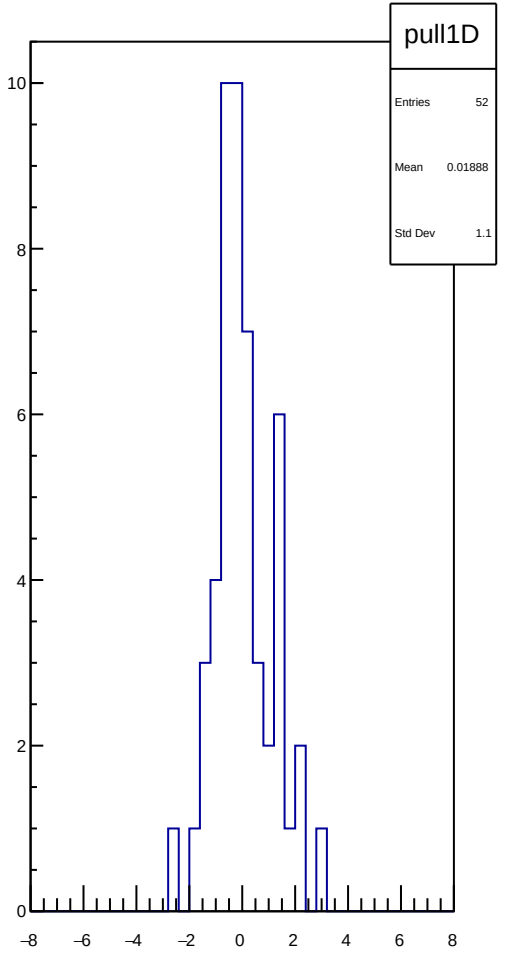

reg_asym_atr_dd_rms vs run
χ² / ndf 169.4 / 50
p0 300.1 ± 0.294
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

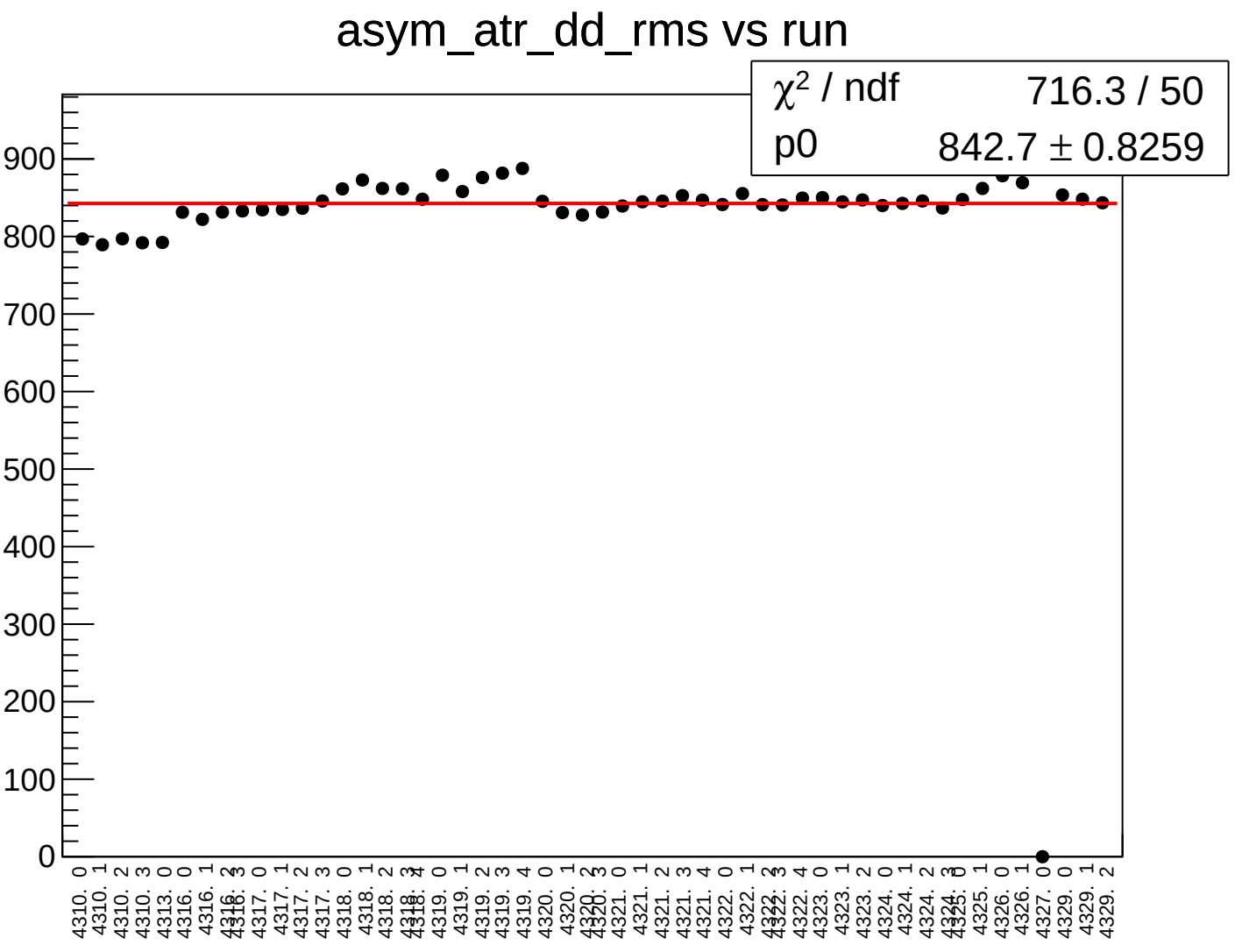

asym_atr_dd_correction_mean vs run
χ² / ndf 56.21 / 50
p0 −61.31± 1091
30000
20000
10000
0
−10000
−20000
−30000

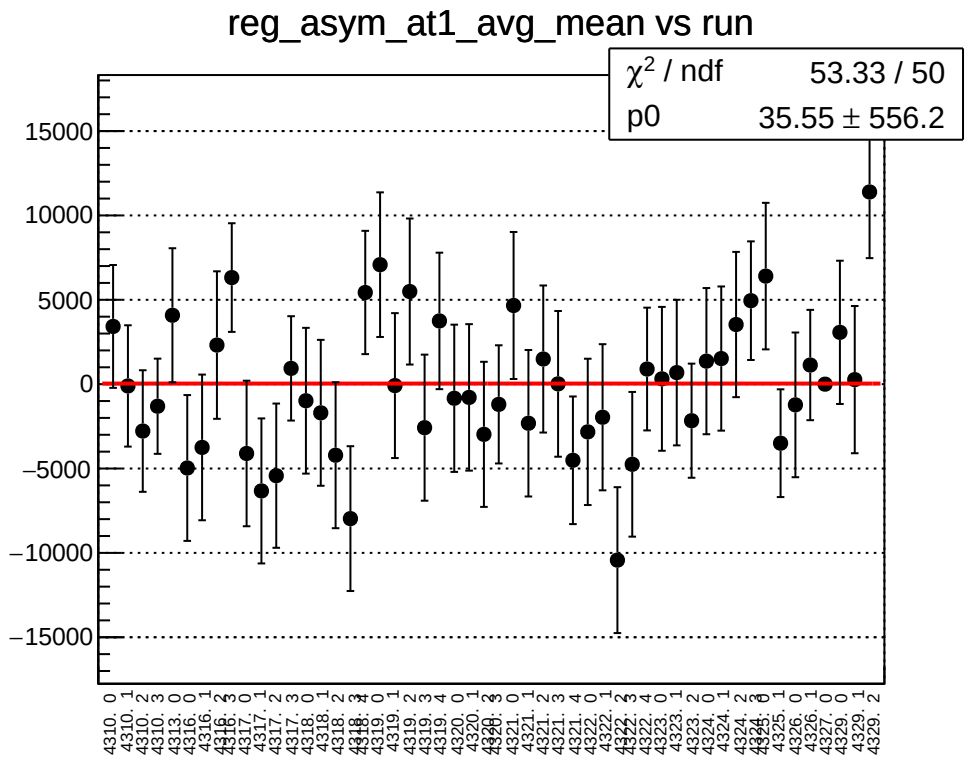

pull1D
Entries 52
Mean −0.012
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

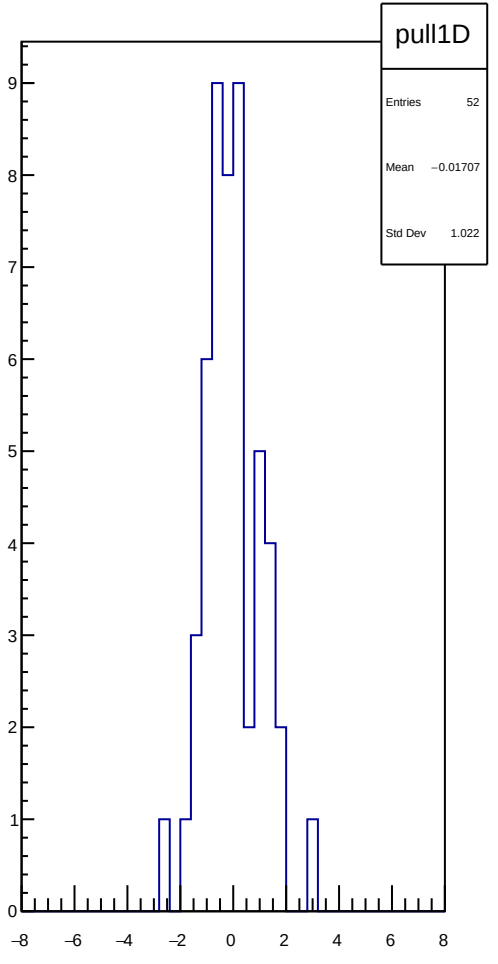

asym_atr_dd_correction_rms vs run
χ² / ndf 926.6 / 50
p0 787.2 ± 0.7716
900
800
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

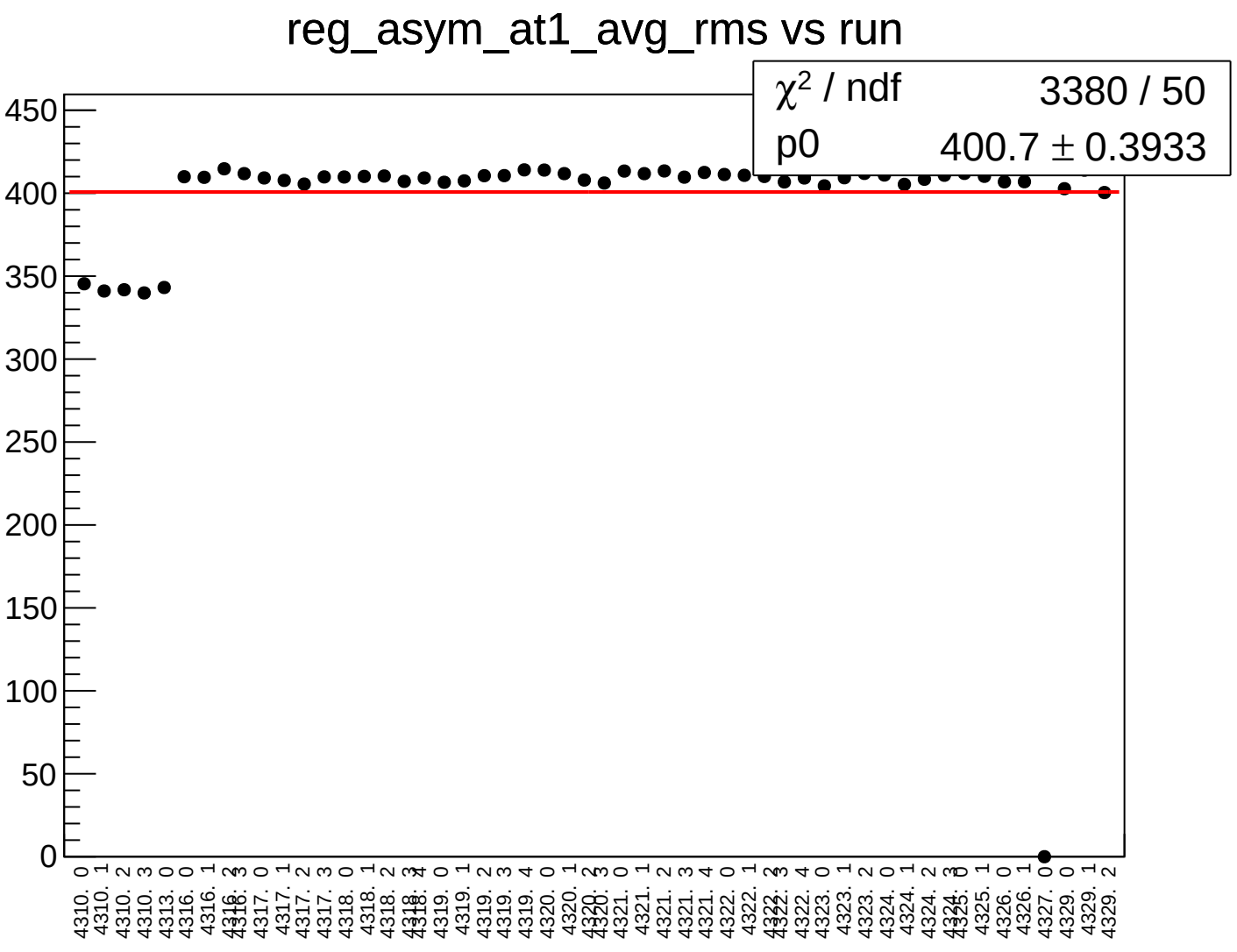

asym_atr_dd_mean vs run
χ² / ndf 61.74 / 50
p0 −545.6 ± 1168
40000
30000
20000
10000
0
−10000
−20000
−30000


pull1D
Entries 52
Mean 0.01888
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_rms vs run
χ² / ndf 716.3 / 50
p0 842.7 ± 0.8259
900
800
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_at1_avg_mean vs run
χ² / ndf 53.33 / 50
p0 35.55 ± 556.2
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean −0.01707
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 3380 / 50
p0 400.7 ± 0.3933
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
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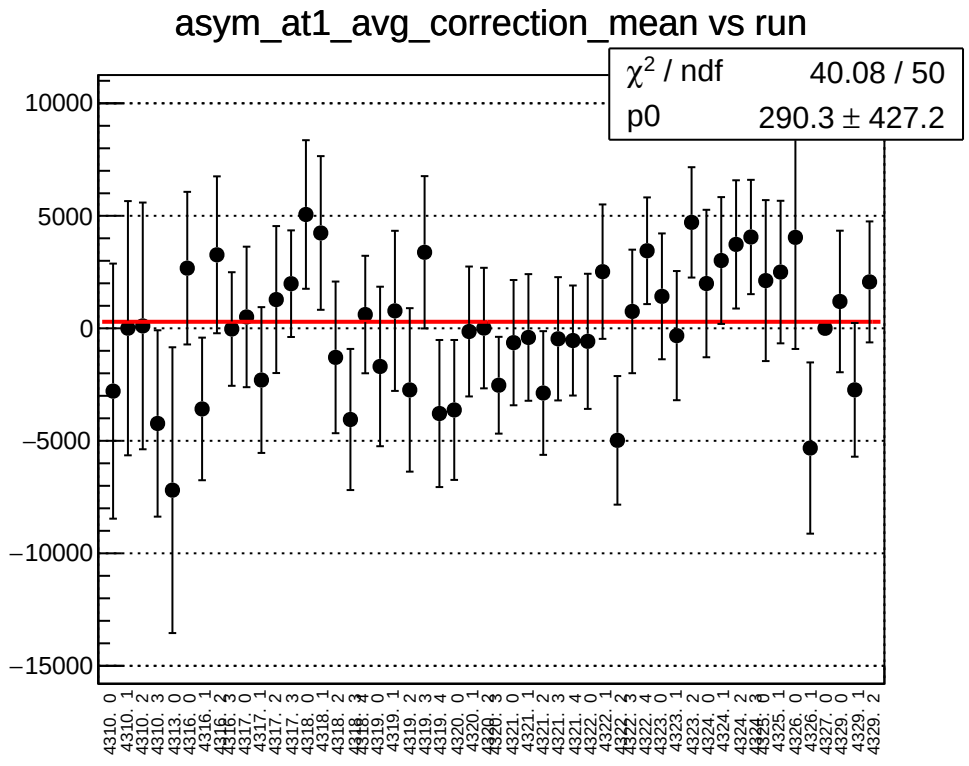
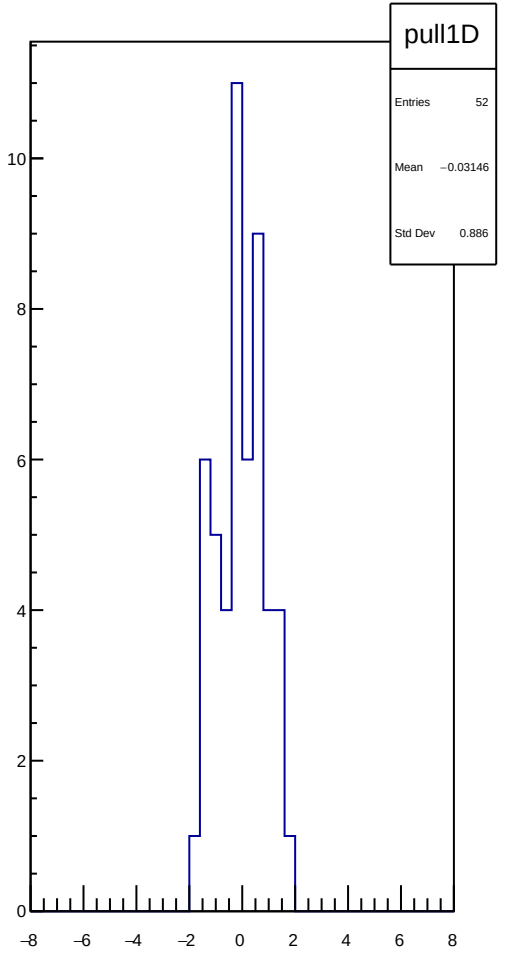
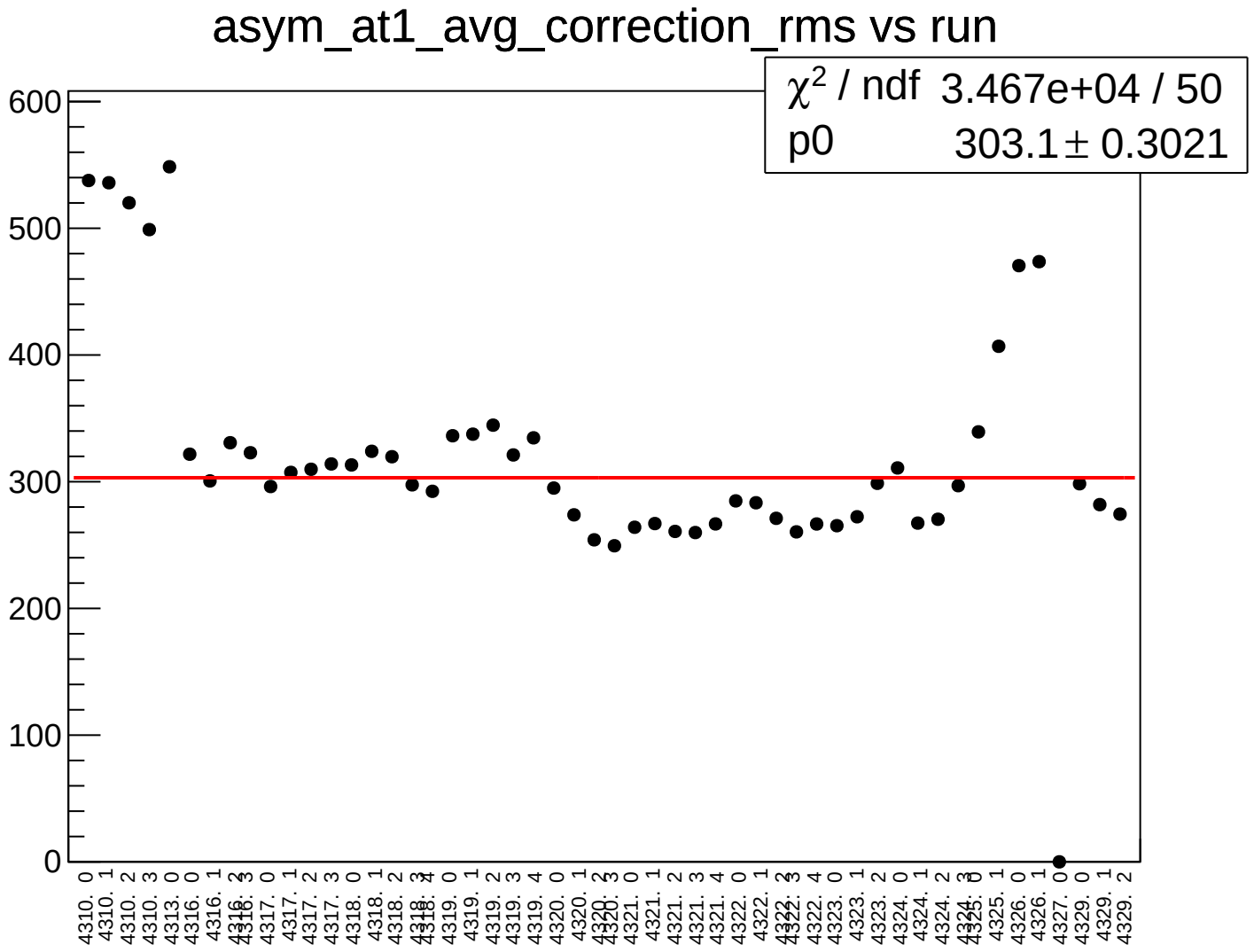
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_at1_avg_correction_mean vs run
χ^2 / ndf 40.08 / 50
p0 290.3 ± 427.2
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean −0.03146
Std Dev 0.886
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_correction_rms vs run
χ^2 / ndf 3.467e+04 / 50
p0 303.1 ± 0.3021
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
4325. 1
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4326. 1
4327. 0
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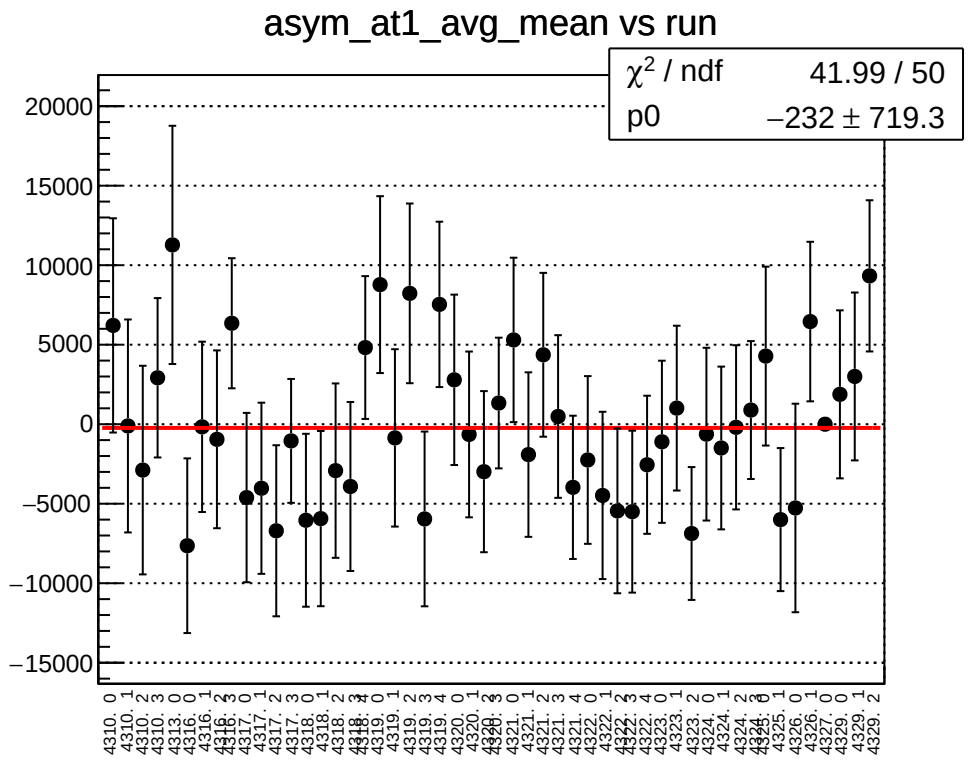
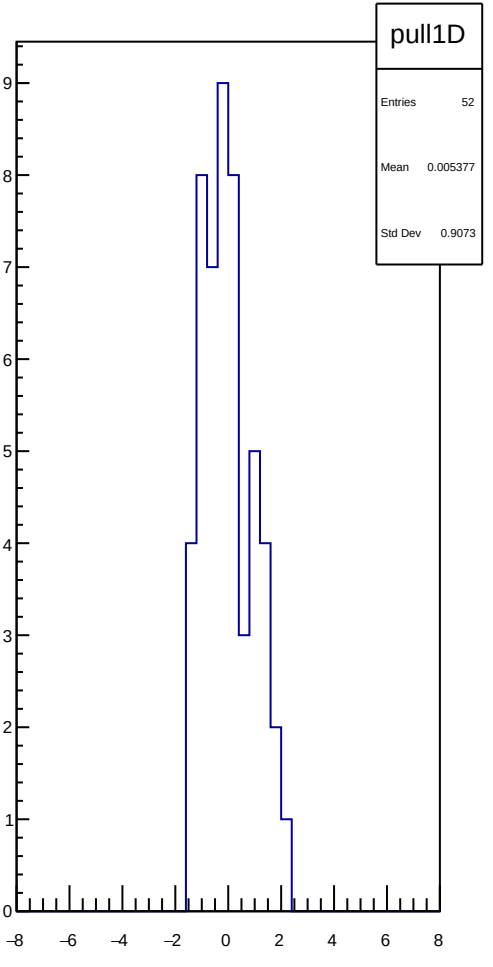
4329. 1
4329. 2


asym_at1_avg_mean vs run
χ^2 / ndf 41.99 / 50
p0 −232 ± 719.3
20000
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean 0.005377
Std Dev 0.9073
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8
7
6
5
4
3
2
1
0
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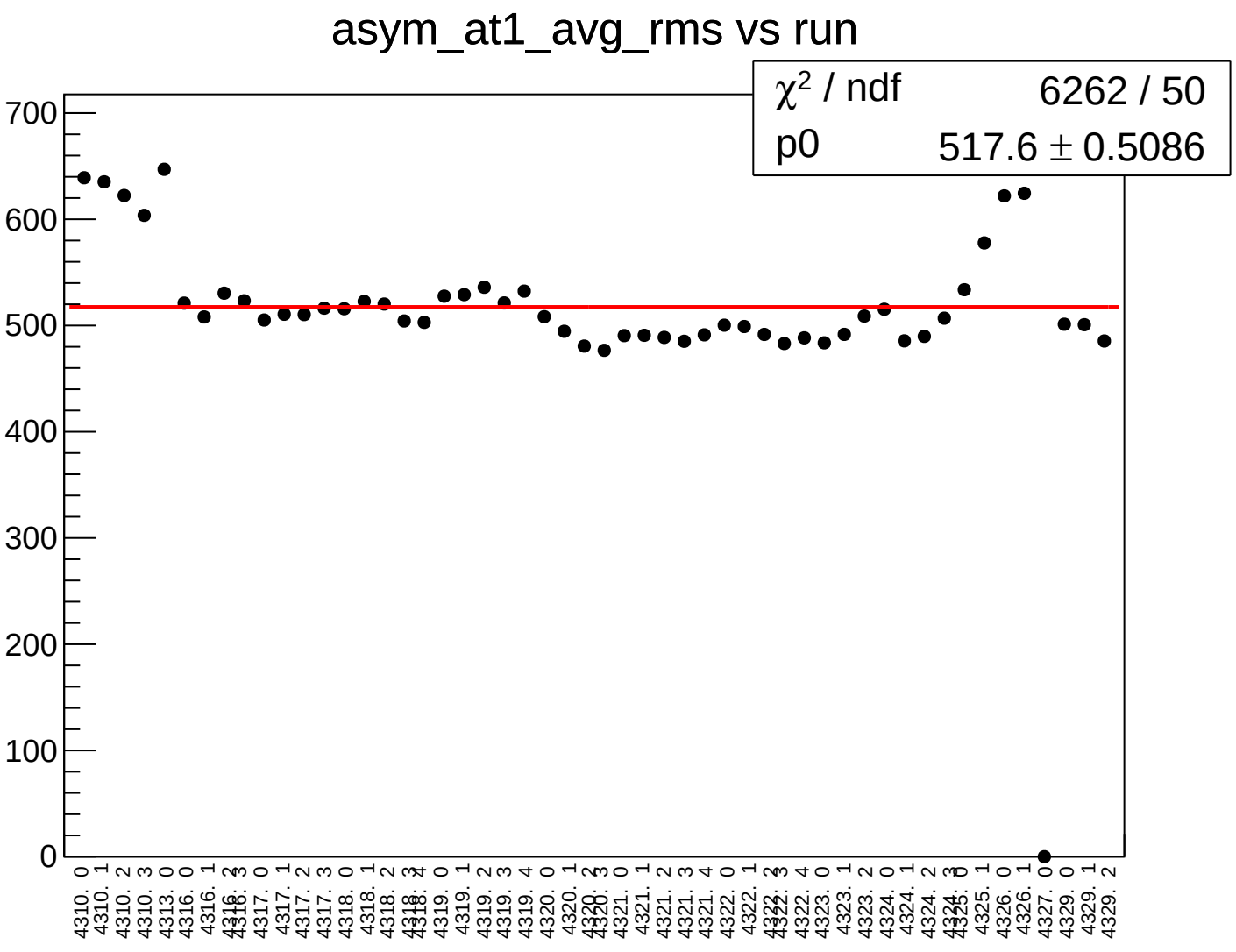
−6
−4
−2
0
2
4
6
8


asym_at1_avg_rms vs run
χ² / ndf 6262 / 50
p0 517.6 ± 0.5086
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
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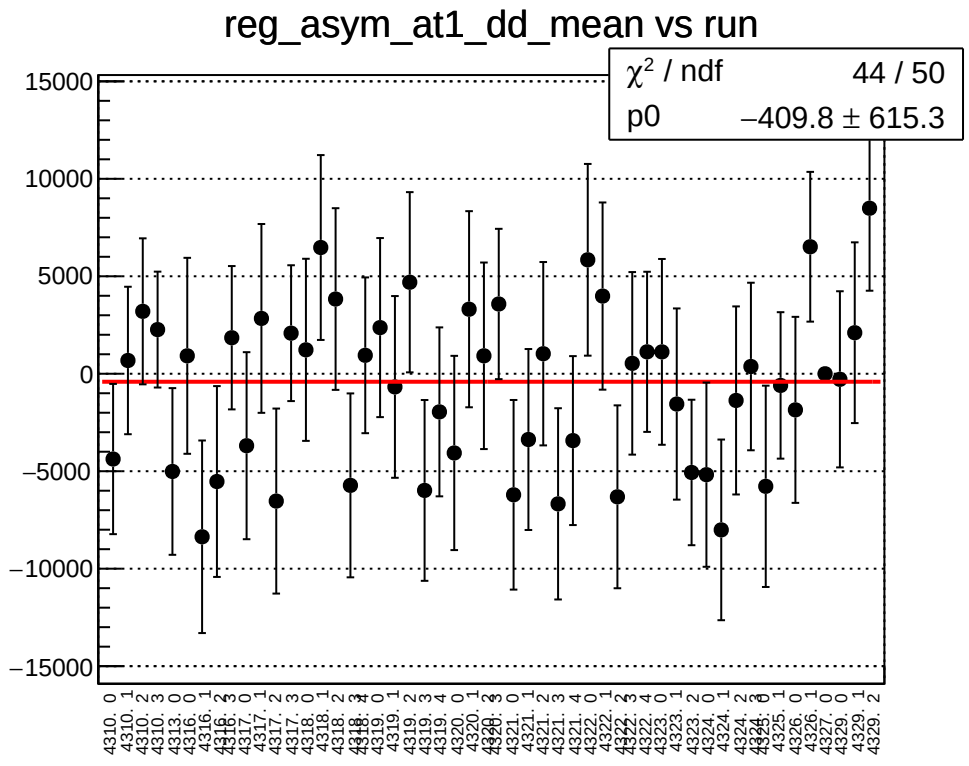
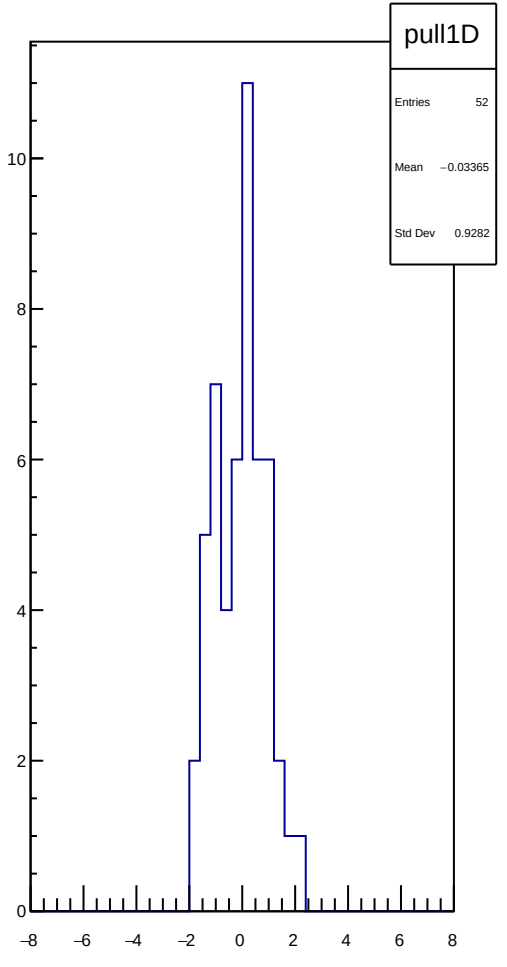
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_at1_dd_mean vs run
χ² / ndf 44 / 50
p0 −409.8 ± 615.3
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean −0.03365
Std Dev 0.9282
10
8
6
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2
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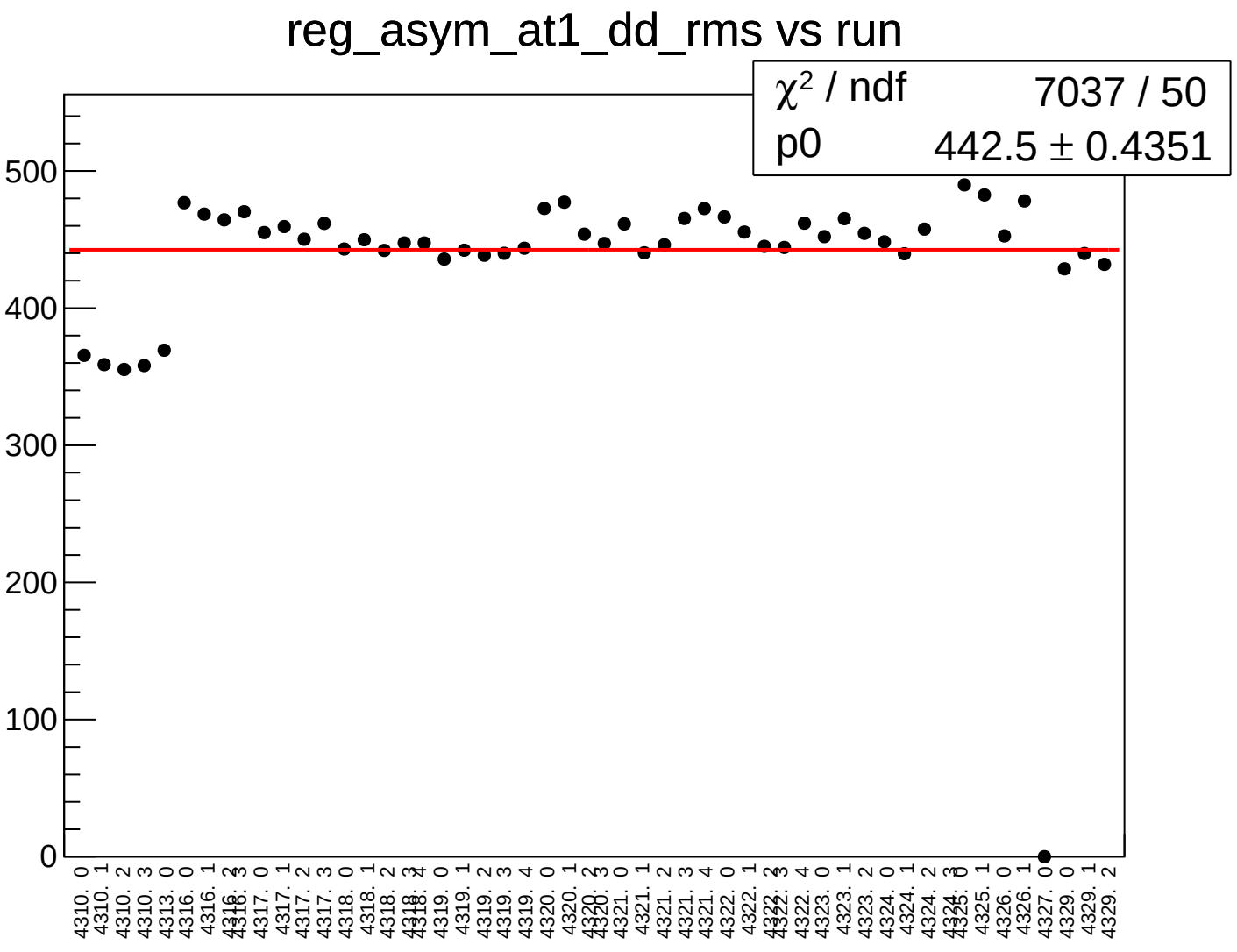
−4
−2
0
2
4
6
8


reg_asym_at1_dd_rms vs run
χ² / ndf 7037 / 50
p0 442.5 ± 0.4351
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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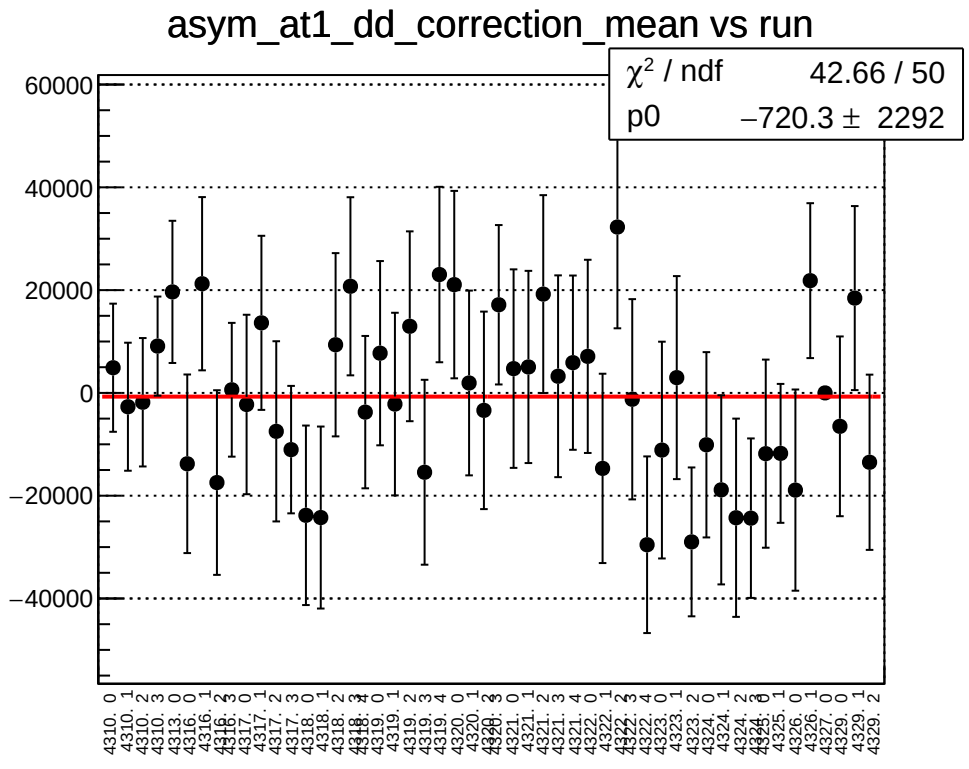
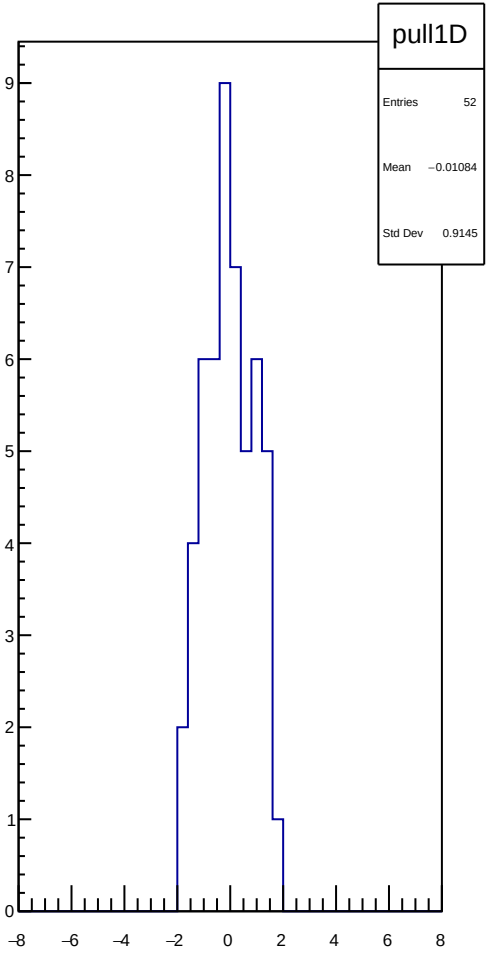
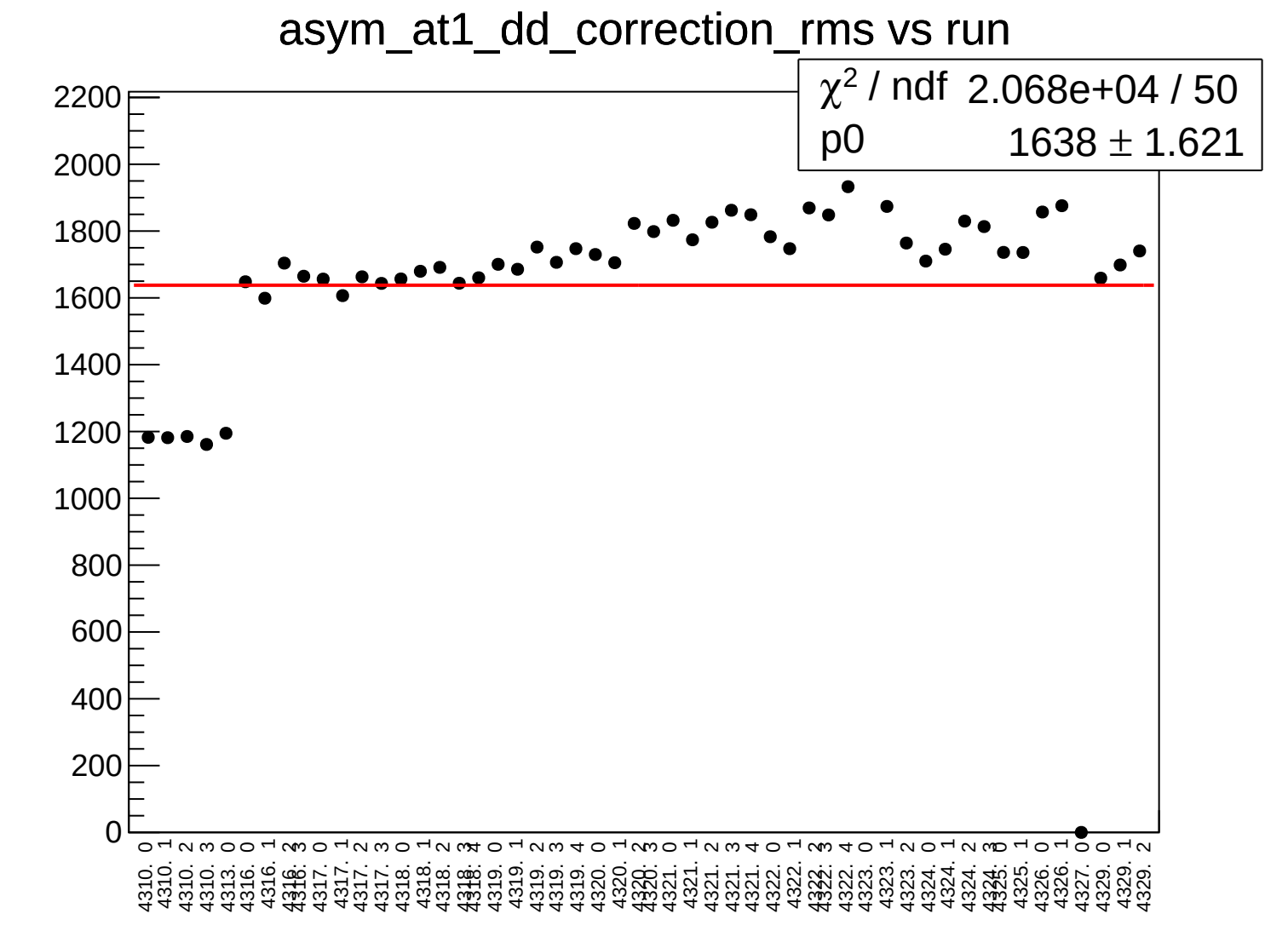
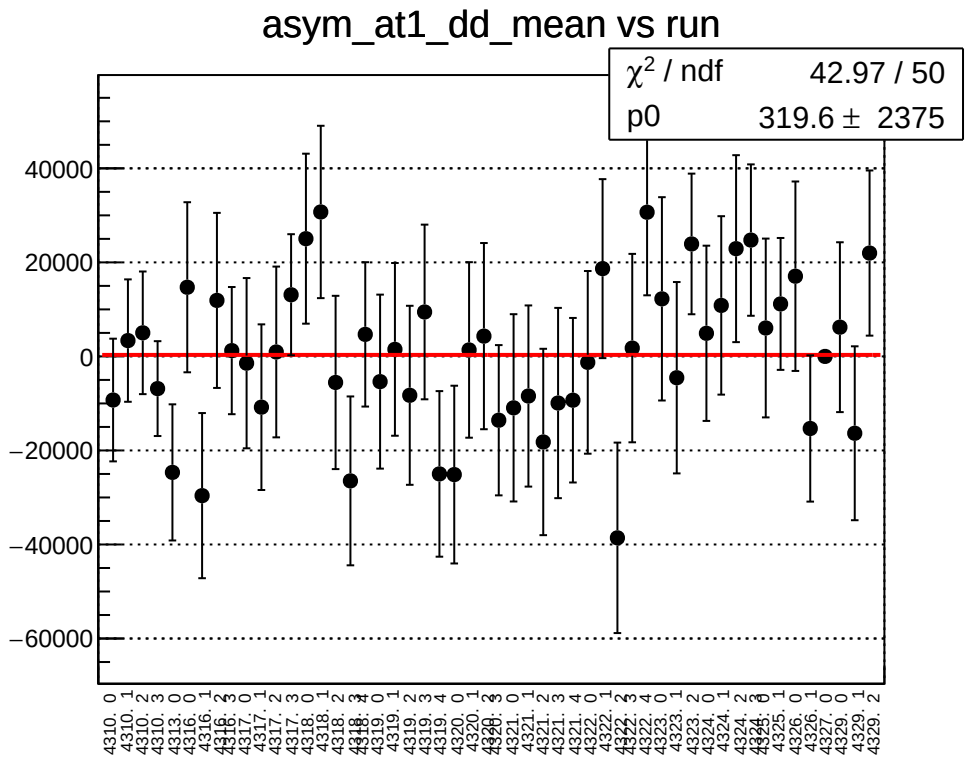
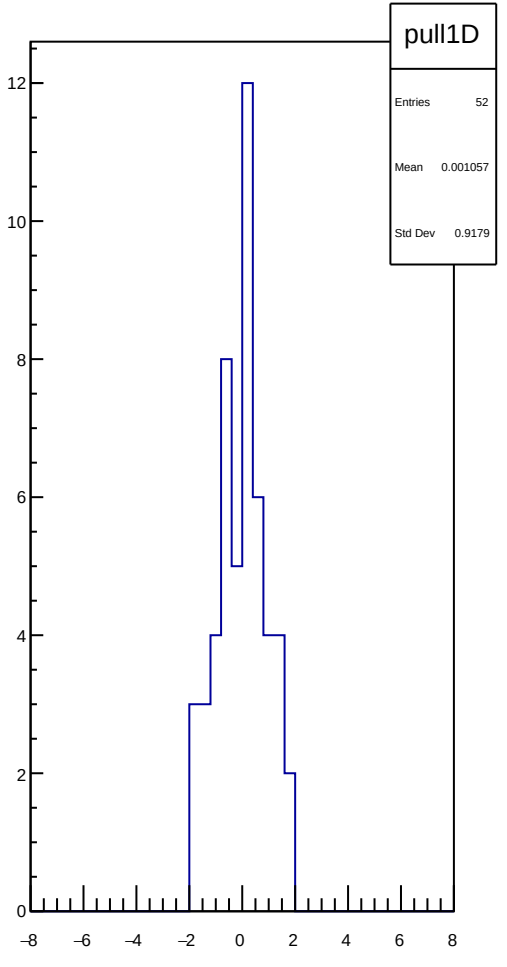
4327. 0
4329. 0
4329. 1
4329. 2

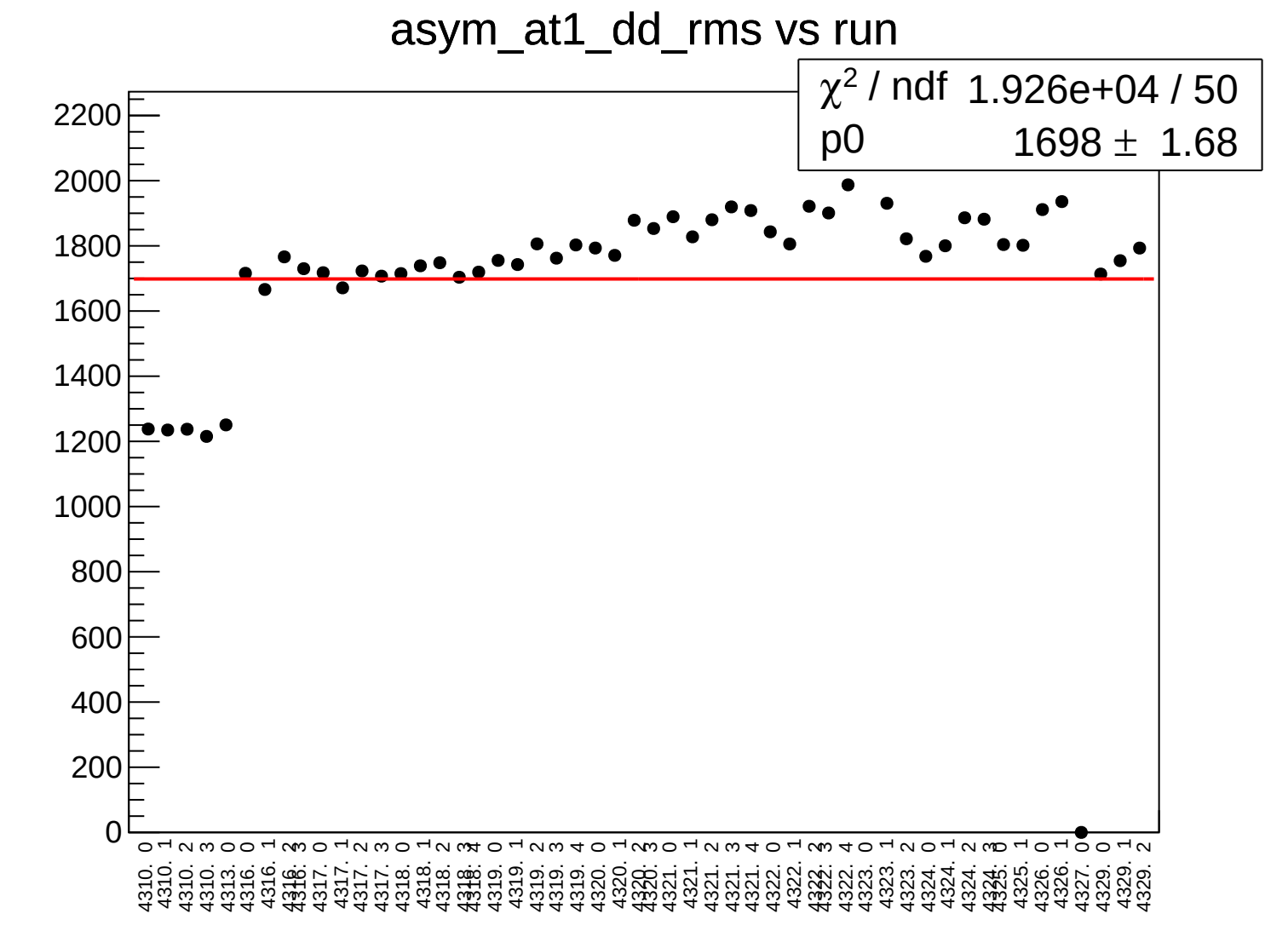

asym_at1_dd_correction_mean vs run
χ² / ndf 42.66 / 50
p0 −720.3 ± 2292
60000
40000
20000
0
−20000
−40000

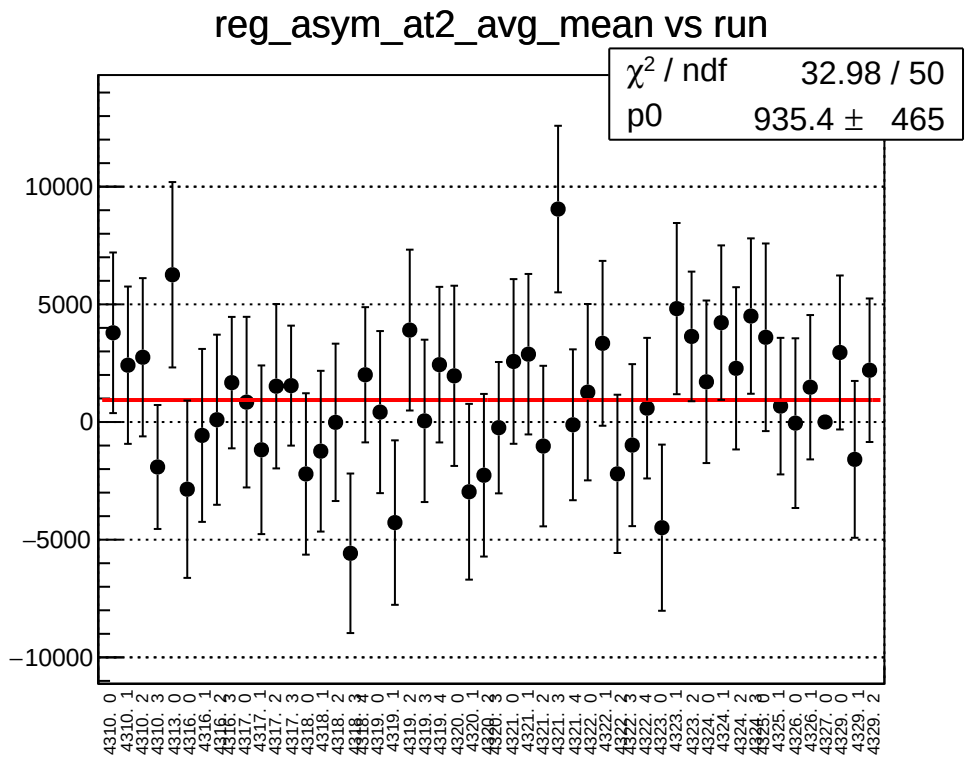

pull1D
Entries 52
Mean −0.01084
Std Dev 0.9145

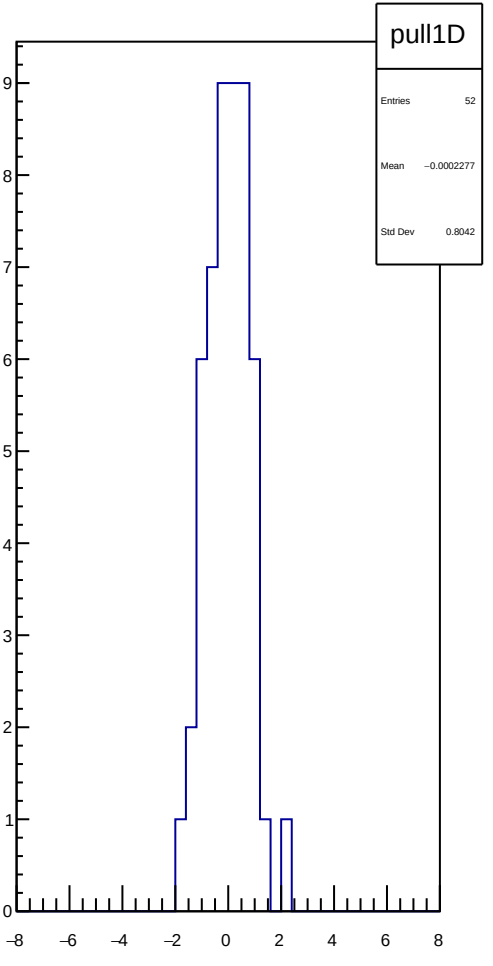

asym_at1_dd_correction_rms vs run
χ² / ndf 2.068e+04 / 50
p0 1638 ± 1.621
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

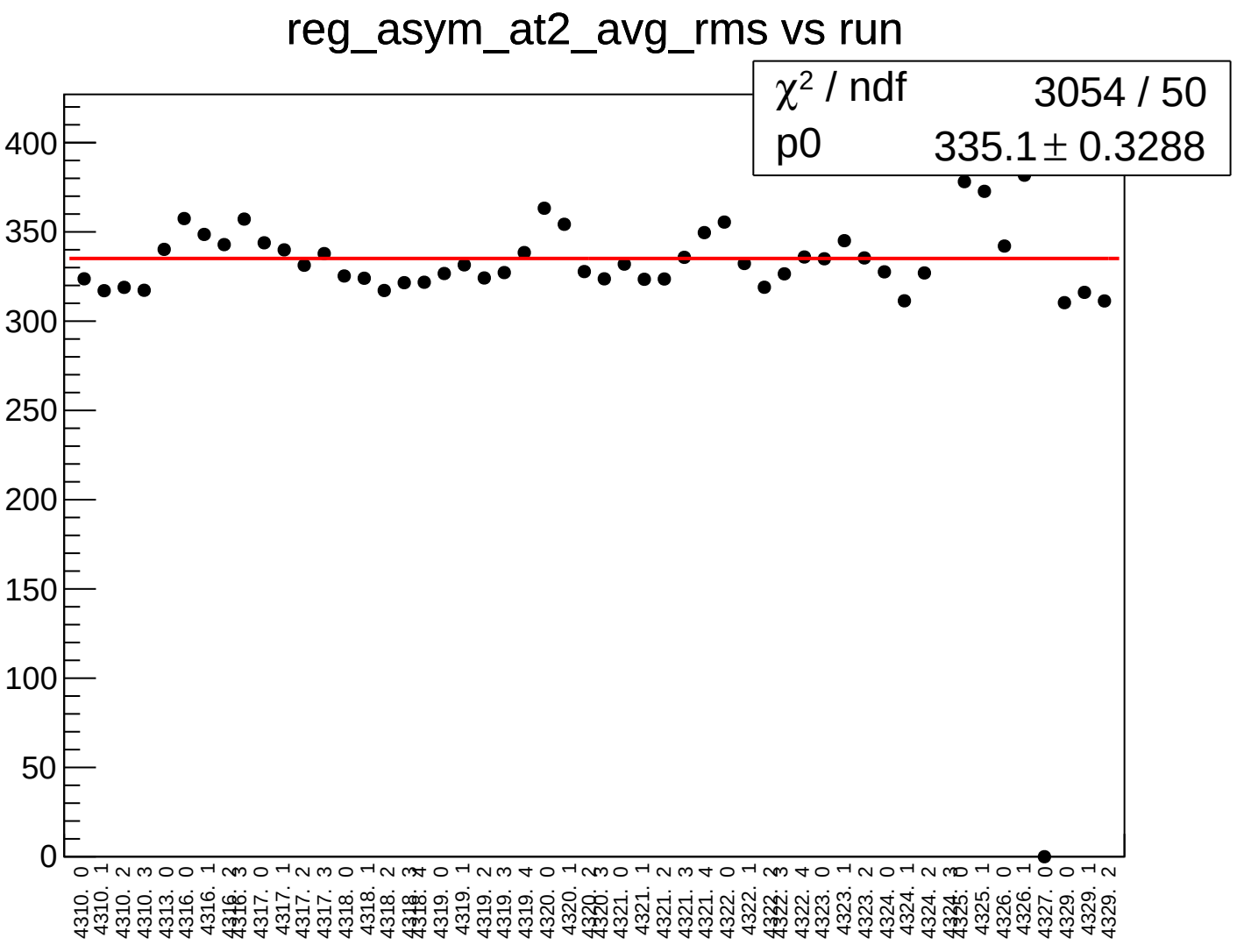

asym_at1_dd_mean vs run
χ² / ndf 42.97 / 50
p0 319.6 ± 2375
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

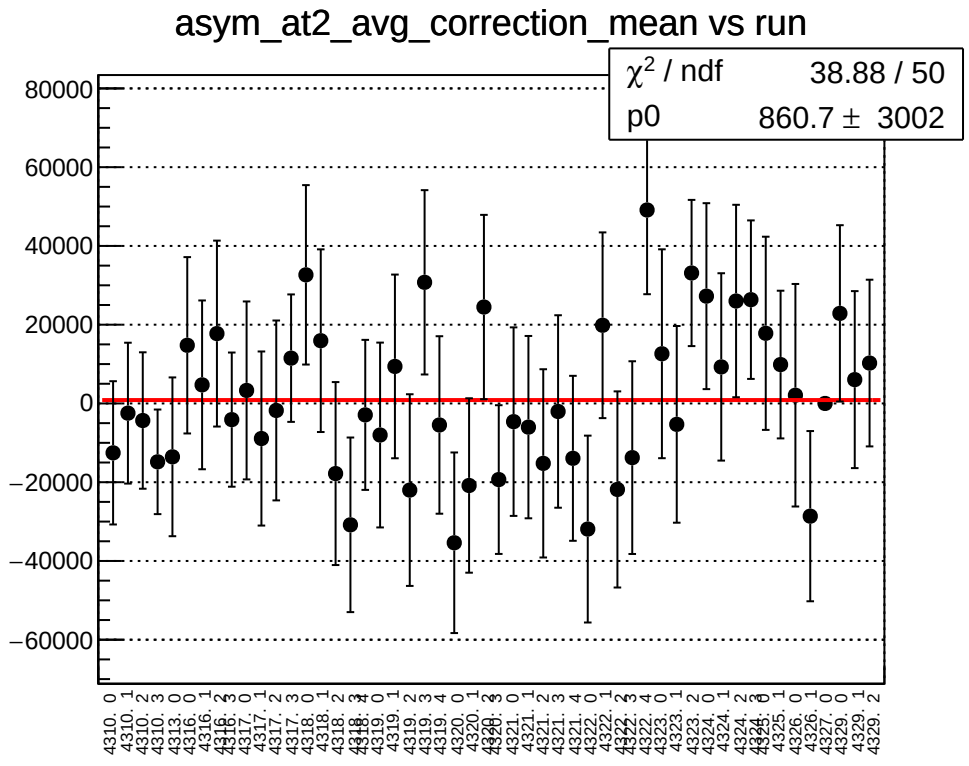

pull1D
Entries 52
Mean 0.001057
Std Dev 0.9179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

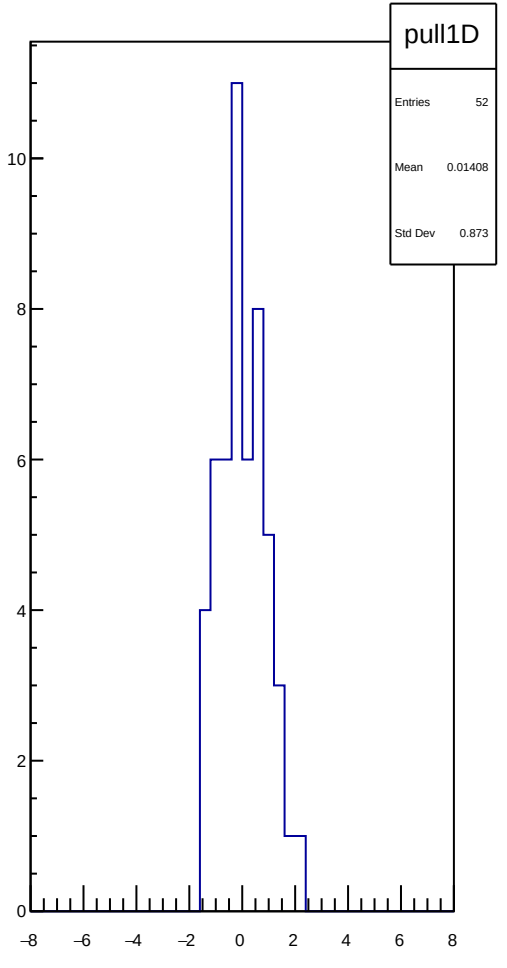

asym_at1_dd_rms vs run
χ² / ndf 1.926e+04 / 50
p0 1698 ± 1.68
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

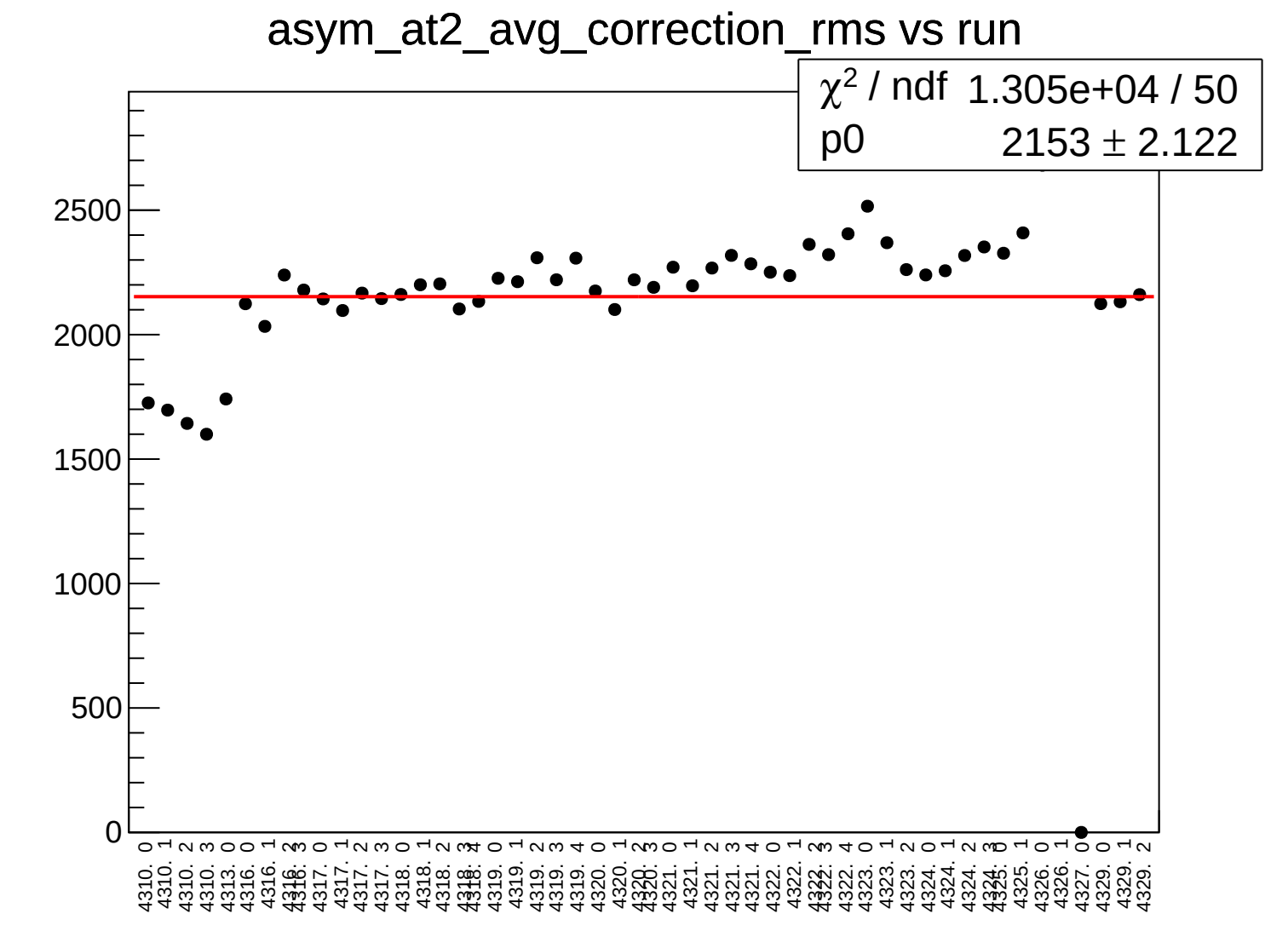

reg_asym_at2_avg_mean vs run
χ² / ndf 32.98 / 50
p0 935.4 ± 465
10000
5000
0
−5000
−10000

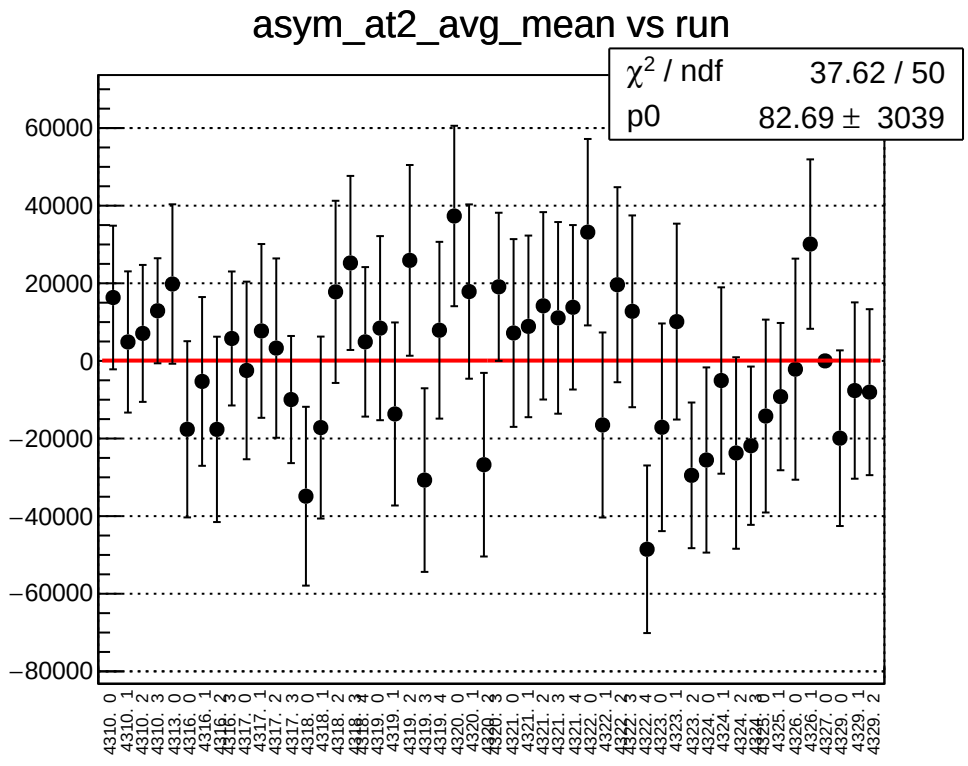

pull1D
Entries 52
Mean −0.0002277
Std Dev 0.8042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

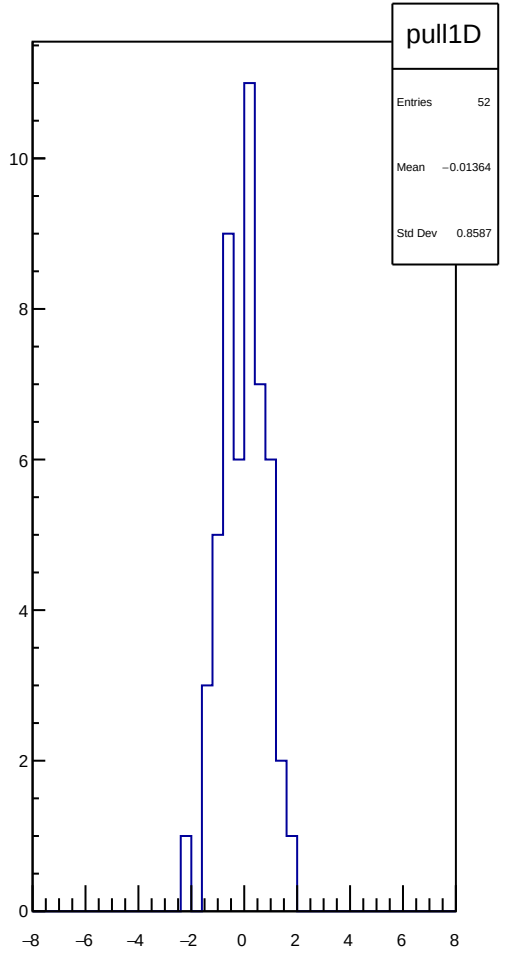

reg_asym_at2_avg_rms vs run
χ² / ndf 3054 / 50
p0 335.1 ± 0.3288
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

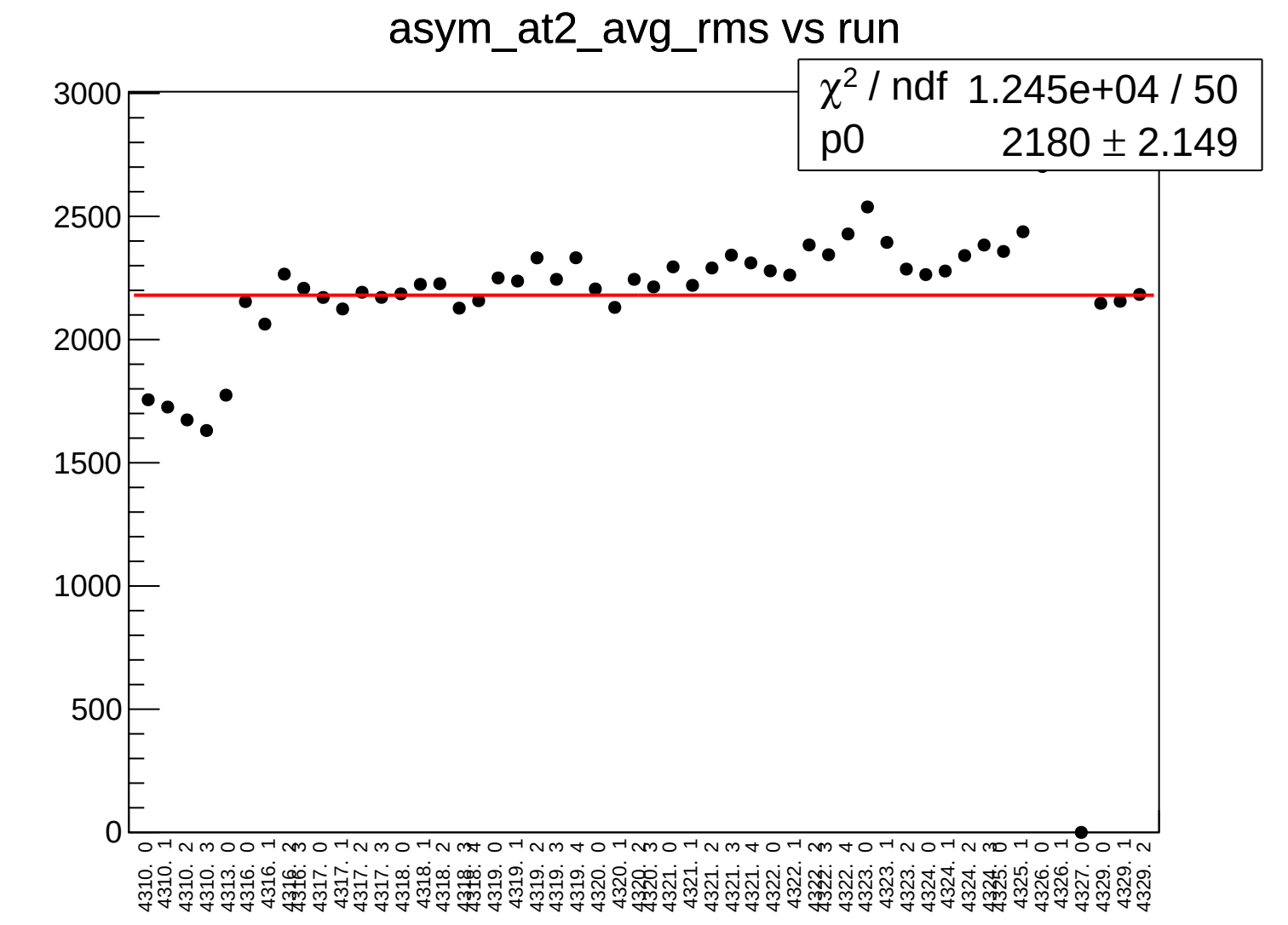

asym_at2_avg_correction_mean vs run
χ² / ndf 38.88 / 50
p0 860.7 ± 3002
80000
60000
40000
20000
0
−20000
−40000
−60000

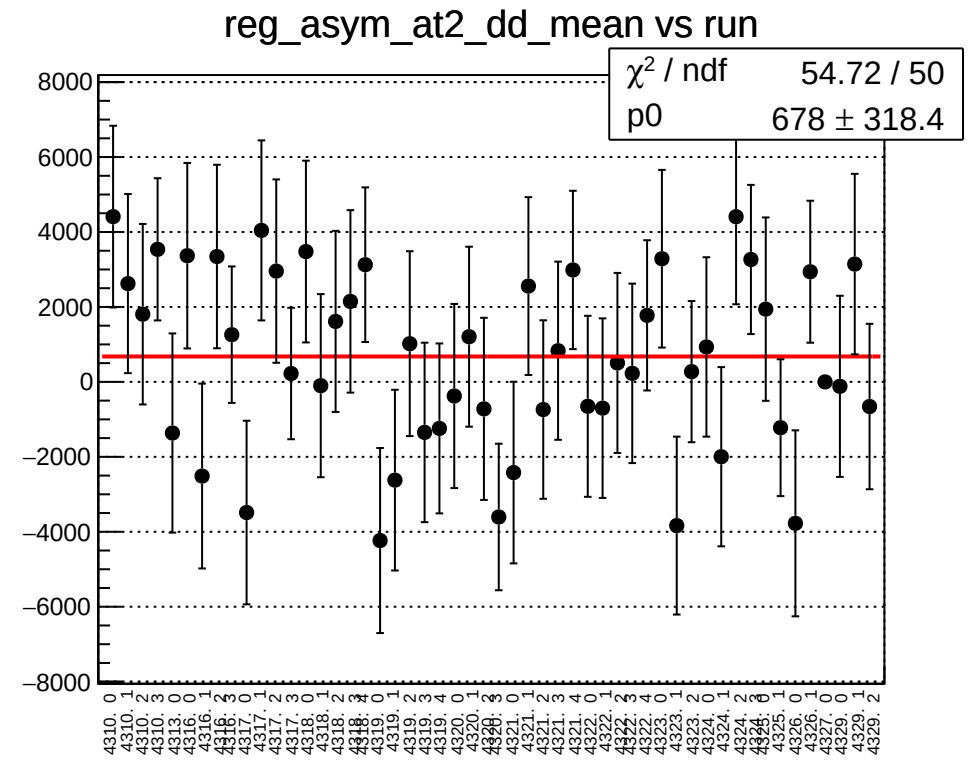

pull1D
Entries 52
Mean 0.01408
Std Dev 0.873
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

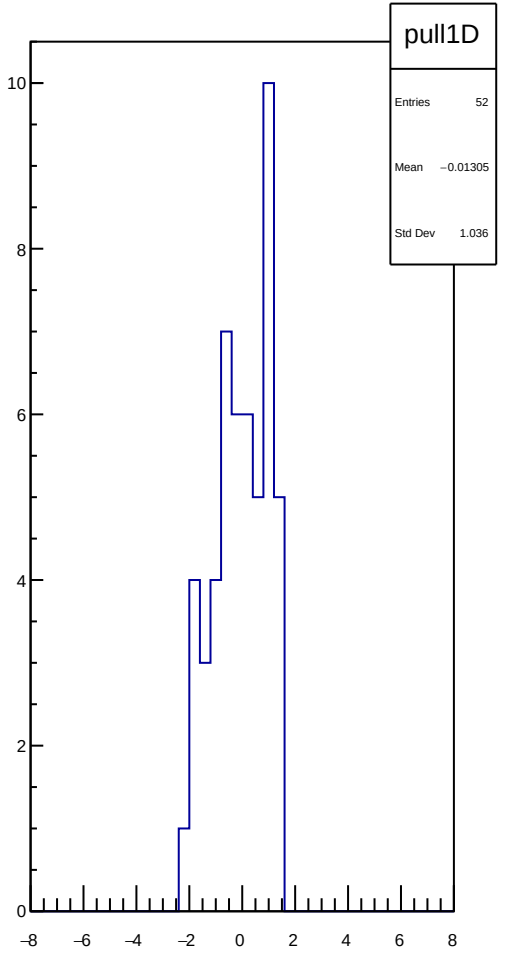

asym_at2_avg_correction_rms vs run
χ² / ndf 1.305e+04 / 50
p0 2153 ± 2.122
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

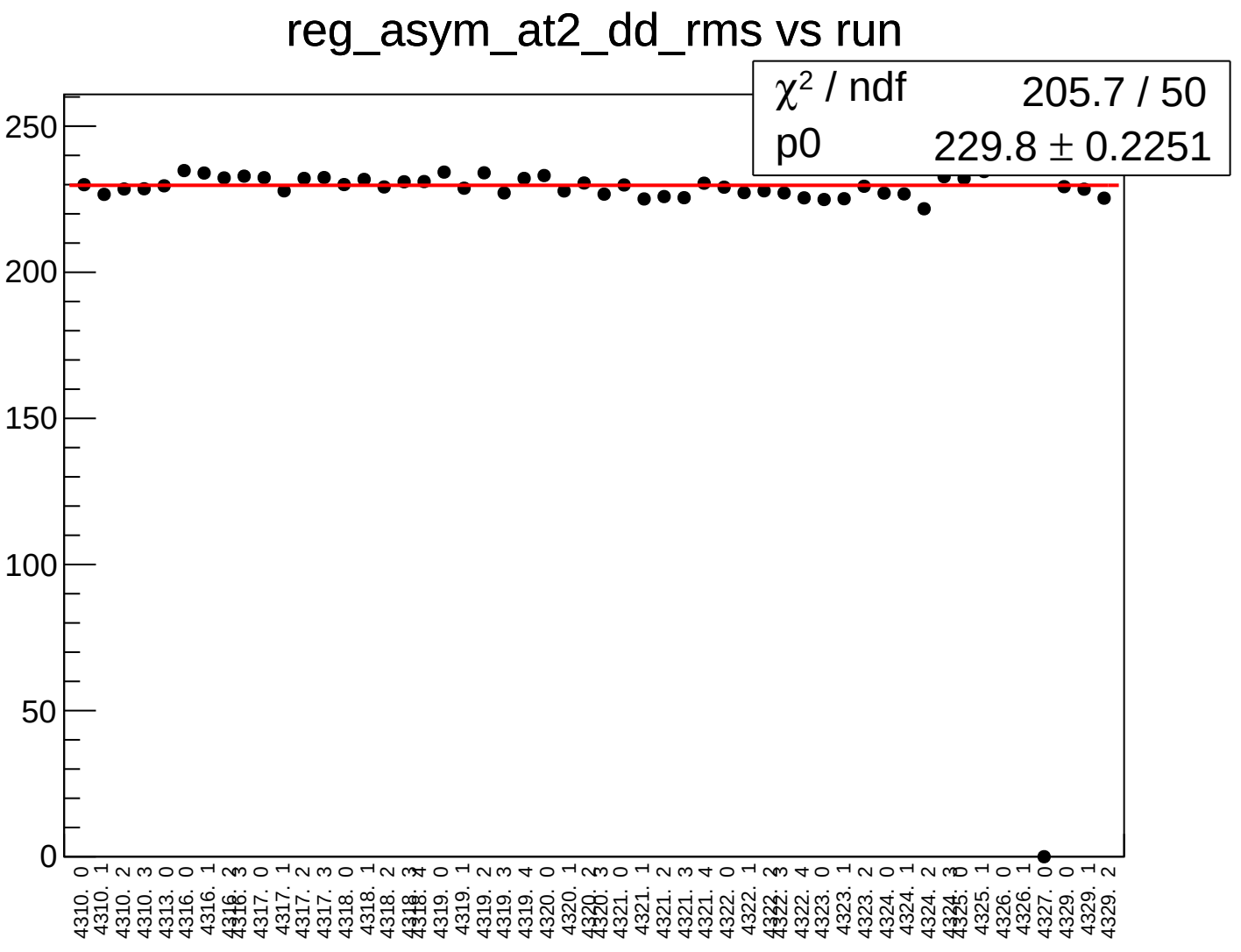

asym_at2_avg_mean vs run
χ² / ndf 37.62 / 50
p0 82.69 ± 3039
60000
40000
20000
0
−20000
−40000
−60000
−80000

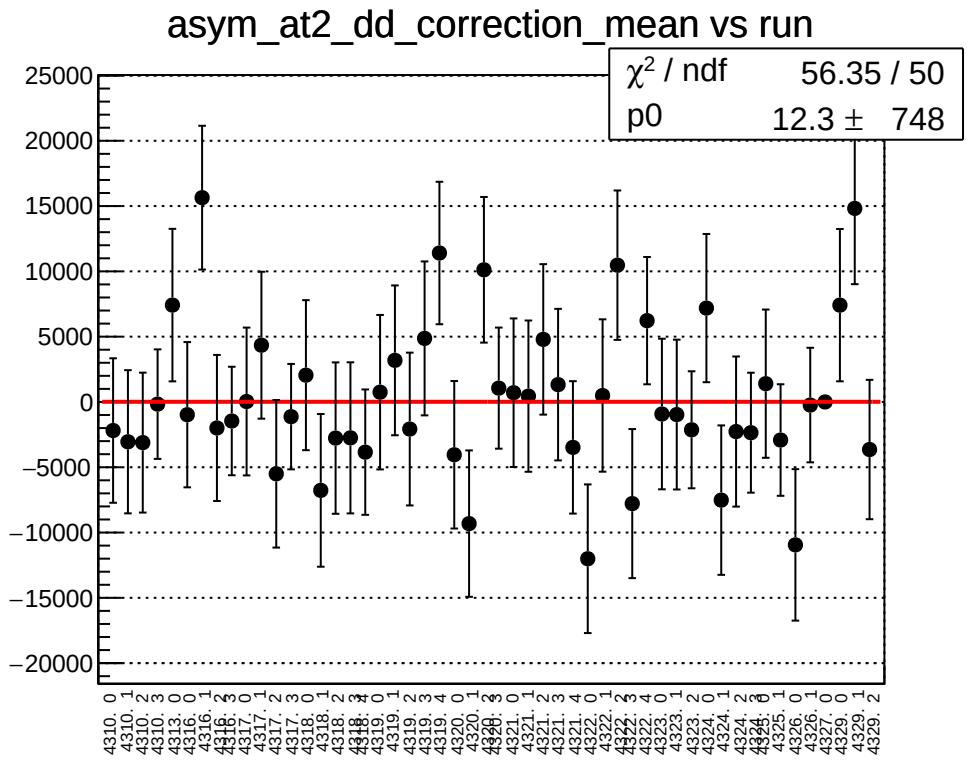

pull1D
Entries 52
Mean −0.01364
Std Dev 0.8587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

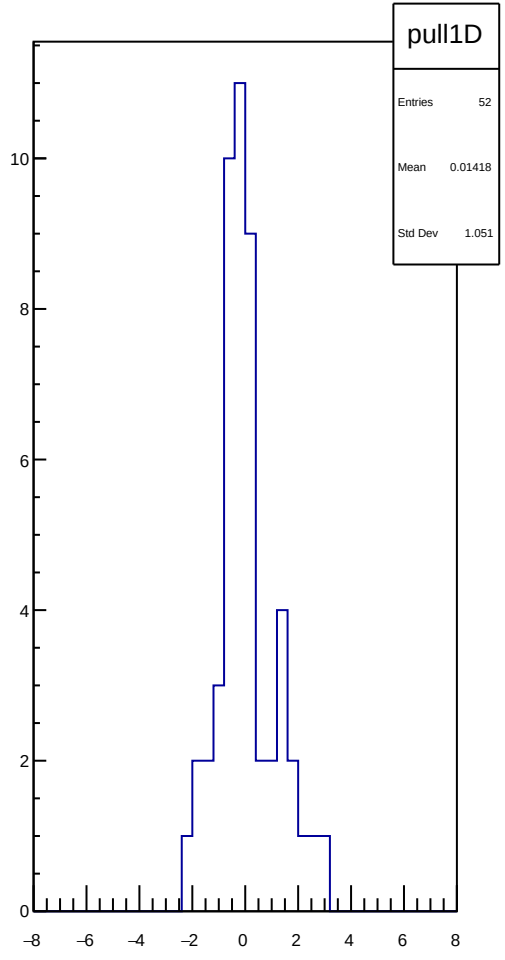

asym_at2_avg_rms vs run
χ² / ndf 1.245e+04 / 50
p0 2180 ± 2.149
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

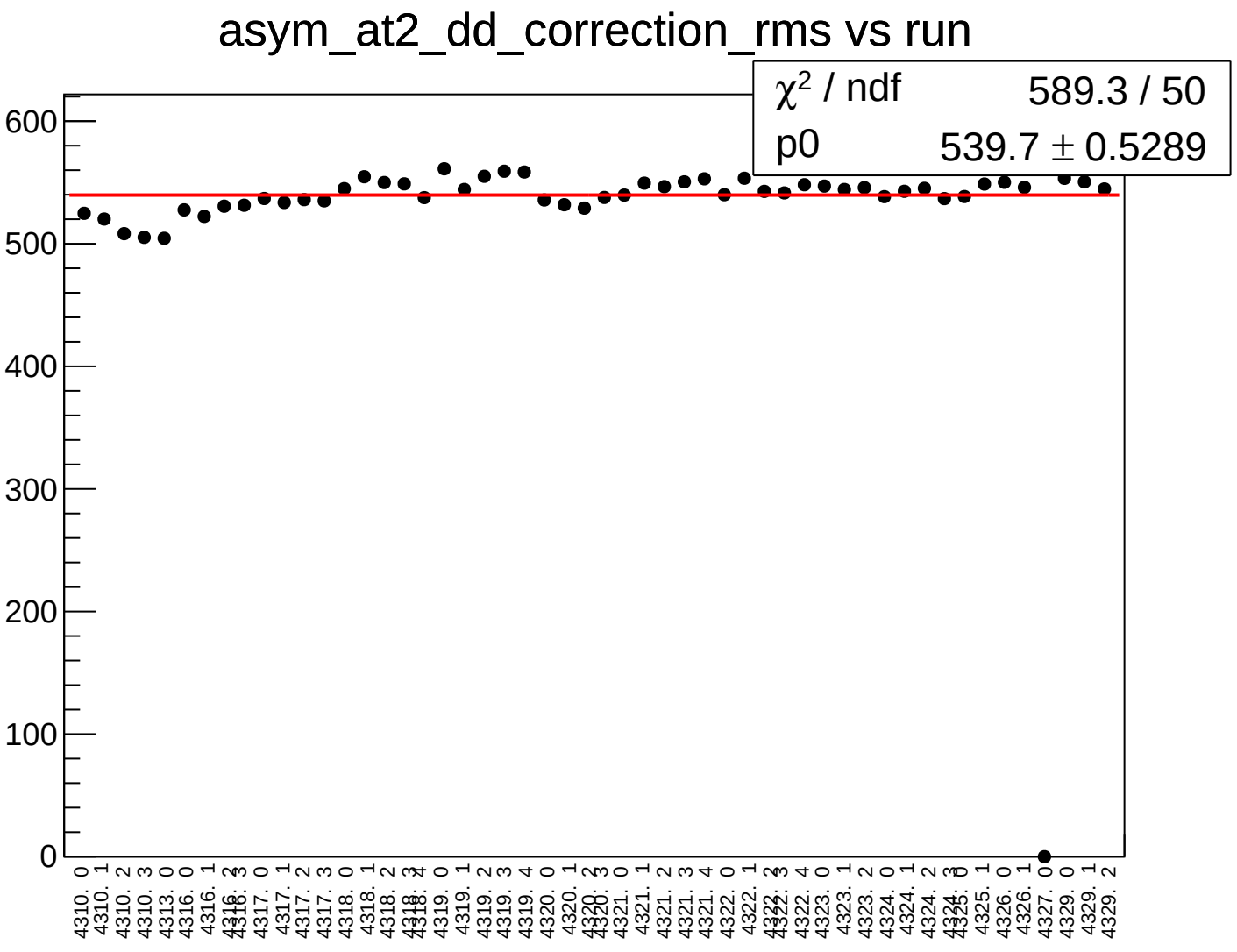

reg_asym_at2_dd_mean vs run
χ² / ndf 54.72 / 50
p0 678 ± 318.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

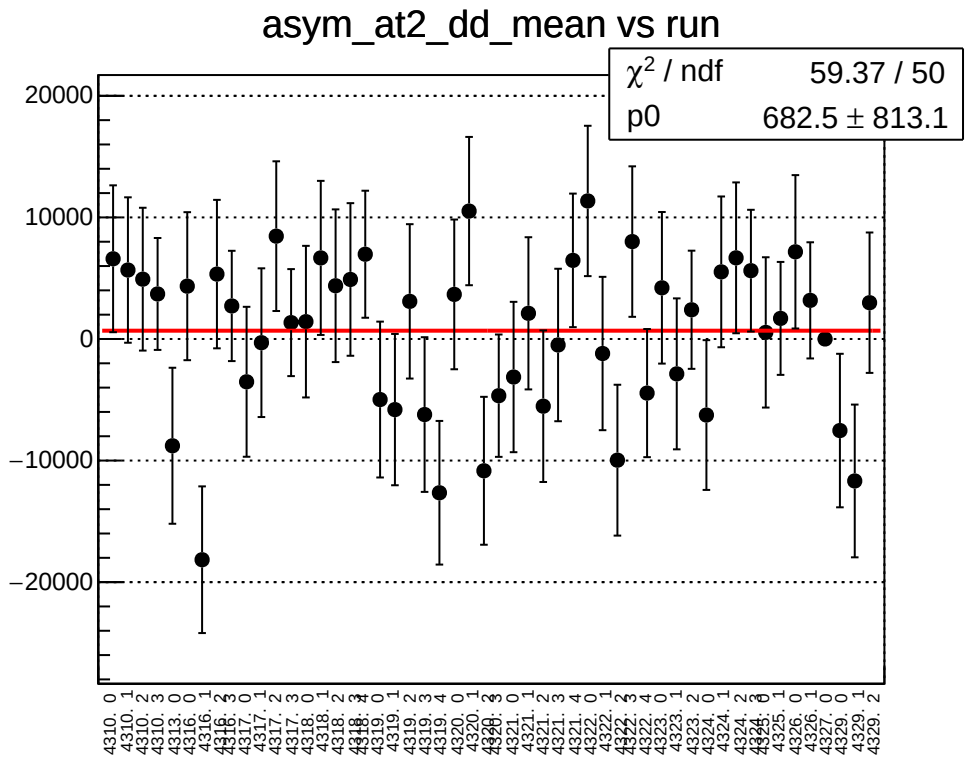

pull1D
Entries 52
Mean −0.01305
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

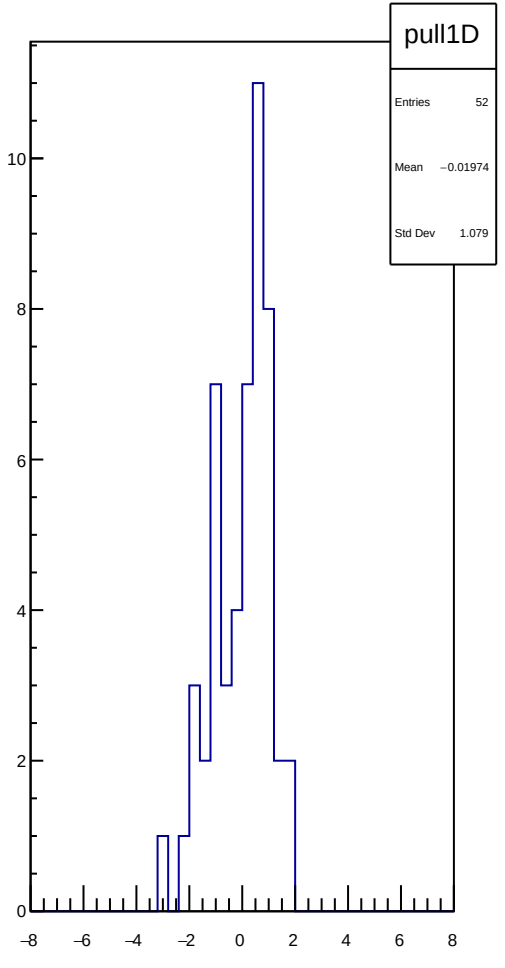

reg_asym_at2_dd_rms vs run
χ² / ndf 205.7 / 50
p0 229.8 ± 0.2251
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

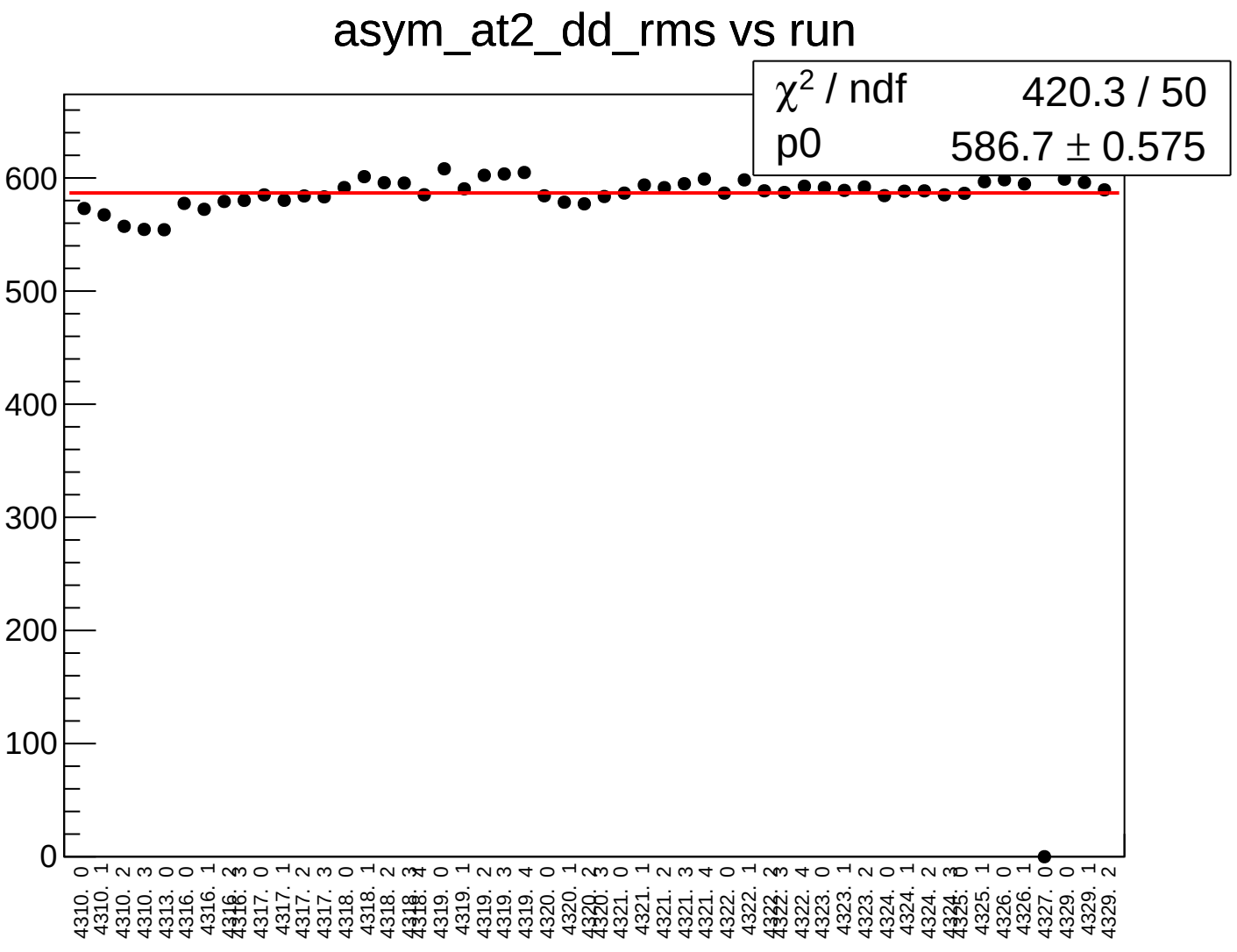

asym_at2_dd_correction_mean vs run
χ² / ndf 56.35 / 50
p0 12.3 ± 748
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.01418
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_correction_rms vs run
χ² / ndf 589.3 / 50
p0 539.7 ± 0.5289
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_at2_dd_mean vs run
χ² / ndf 59.37 / 50
p0 682.5 ± 813.1
20000
10000
0
−10000
−20000


pull1D
Entries 52
Mean −0.01974
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 420.3 / 50
p0 586.7 ± 0.575
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
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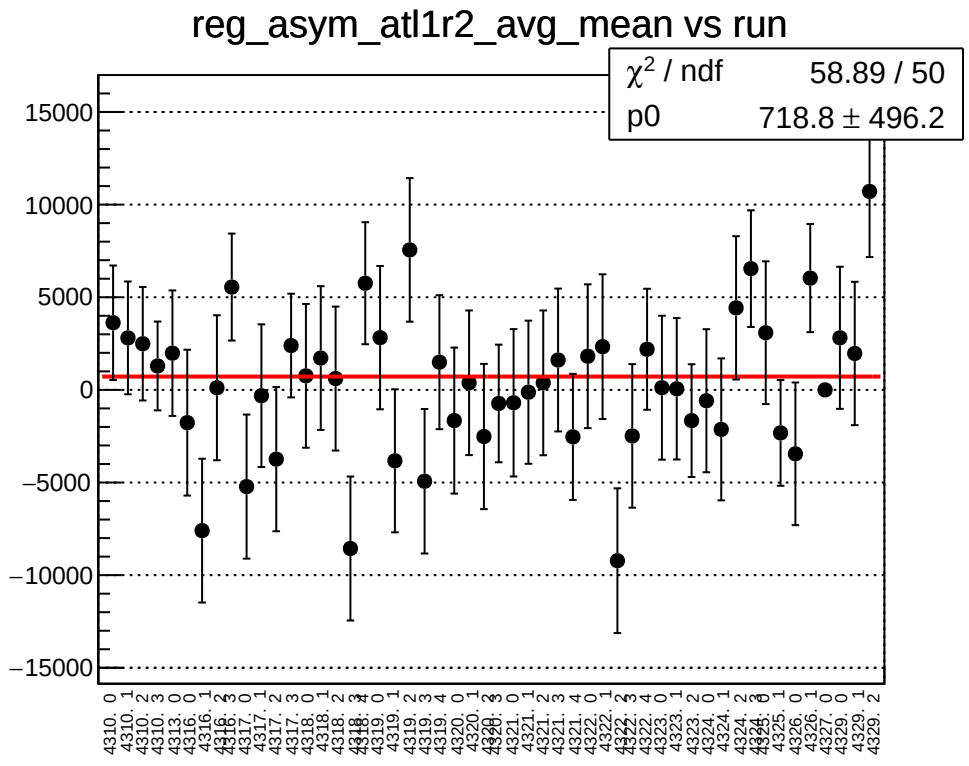
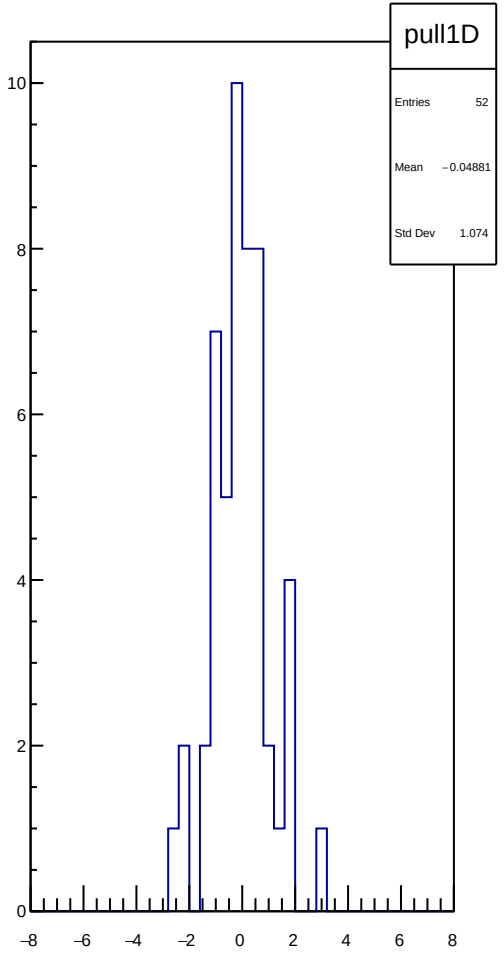
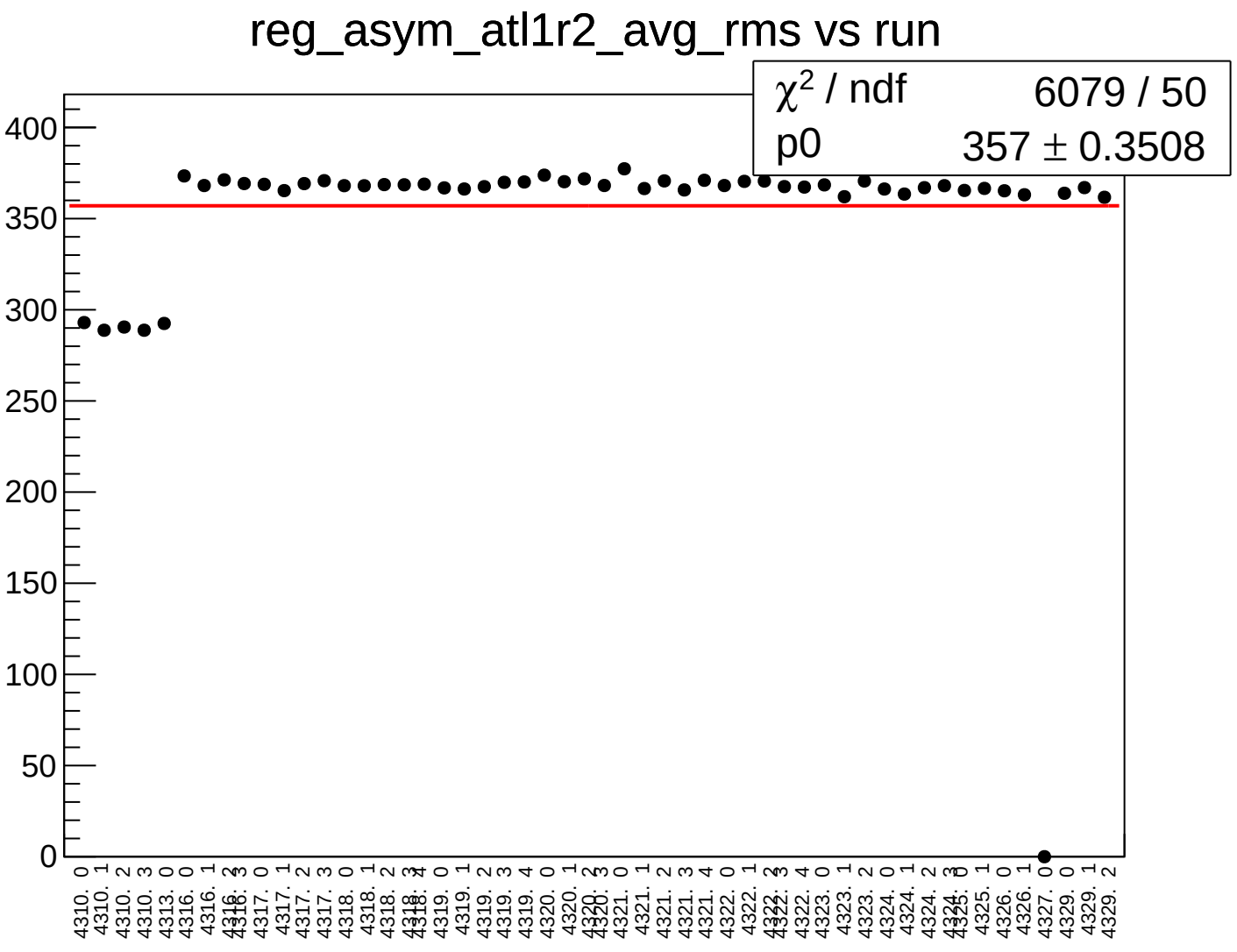
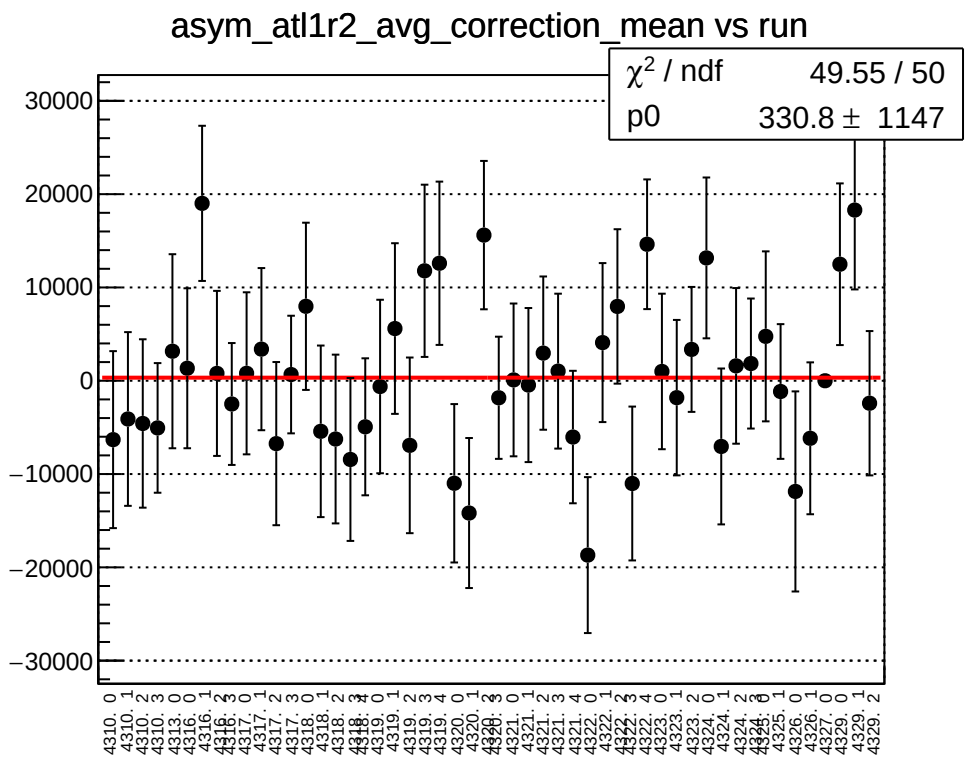
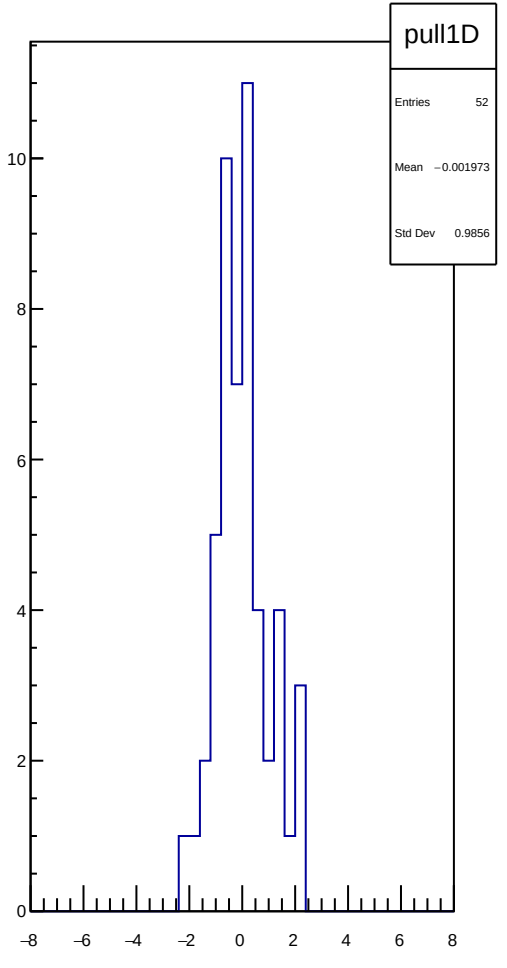
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

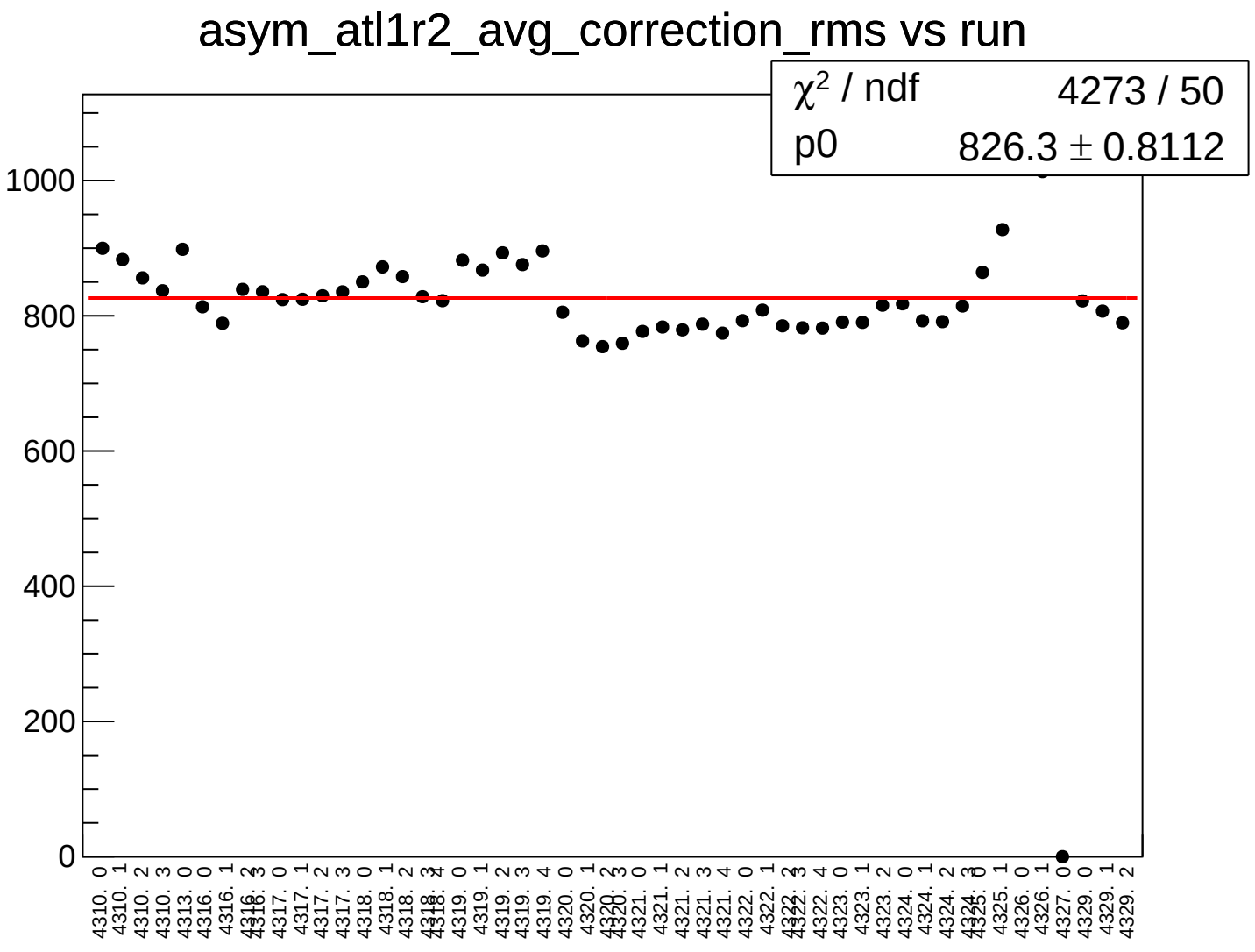

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 58.89 / 50
p0 718.8 ± 496.2
15000
10000
5000
0
−5000
−10000
−15000

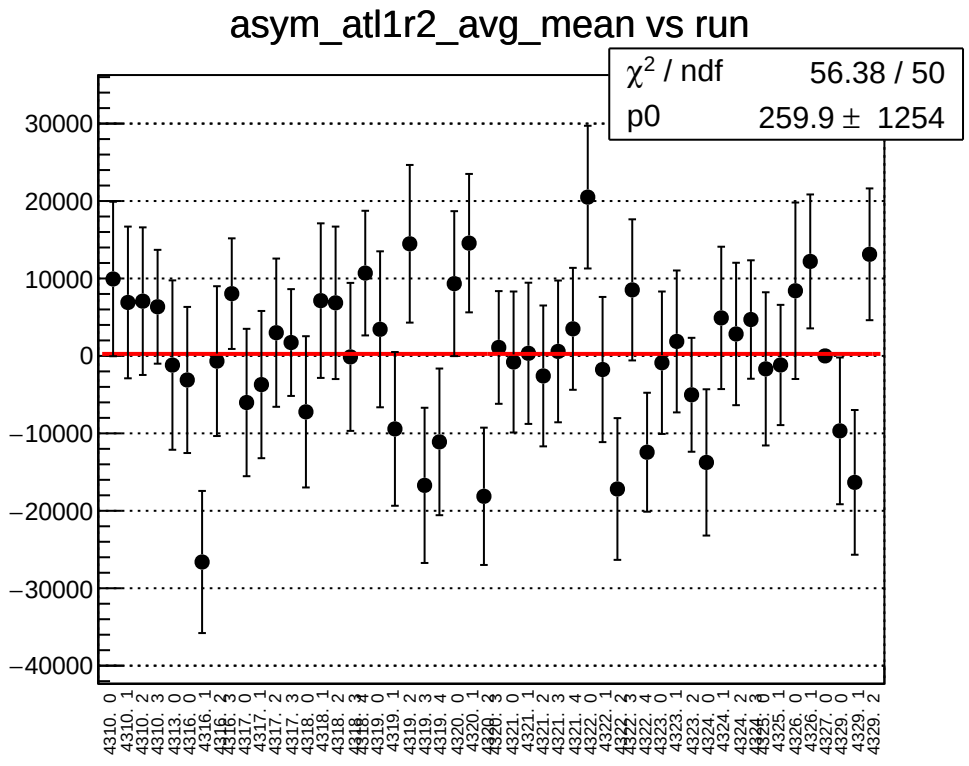

pull1D
Entries 52
Mean −0.04881
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

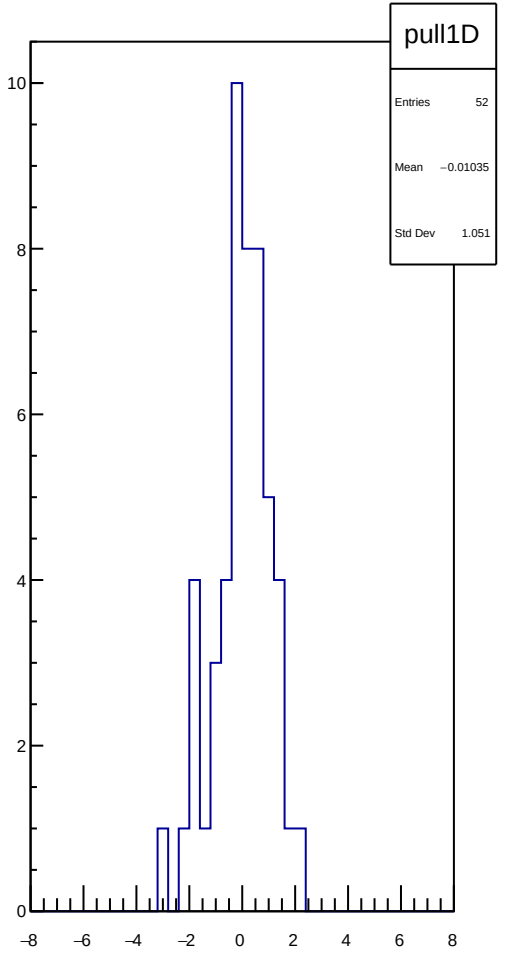

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 6079 / 50
p0 357 ± 0.3508
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

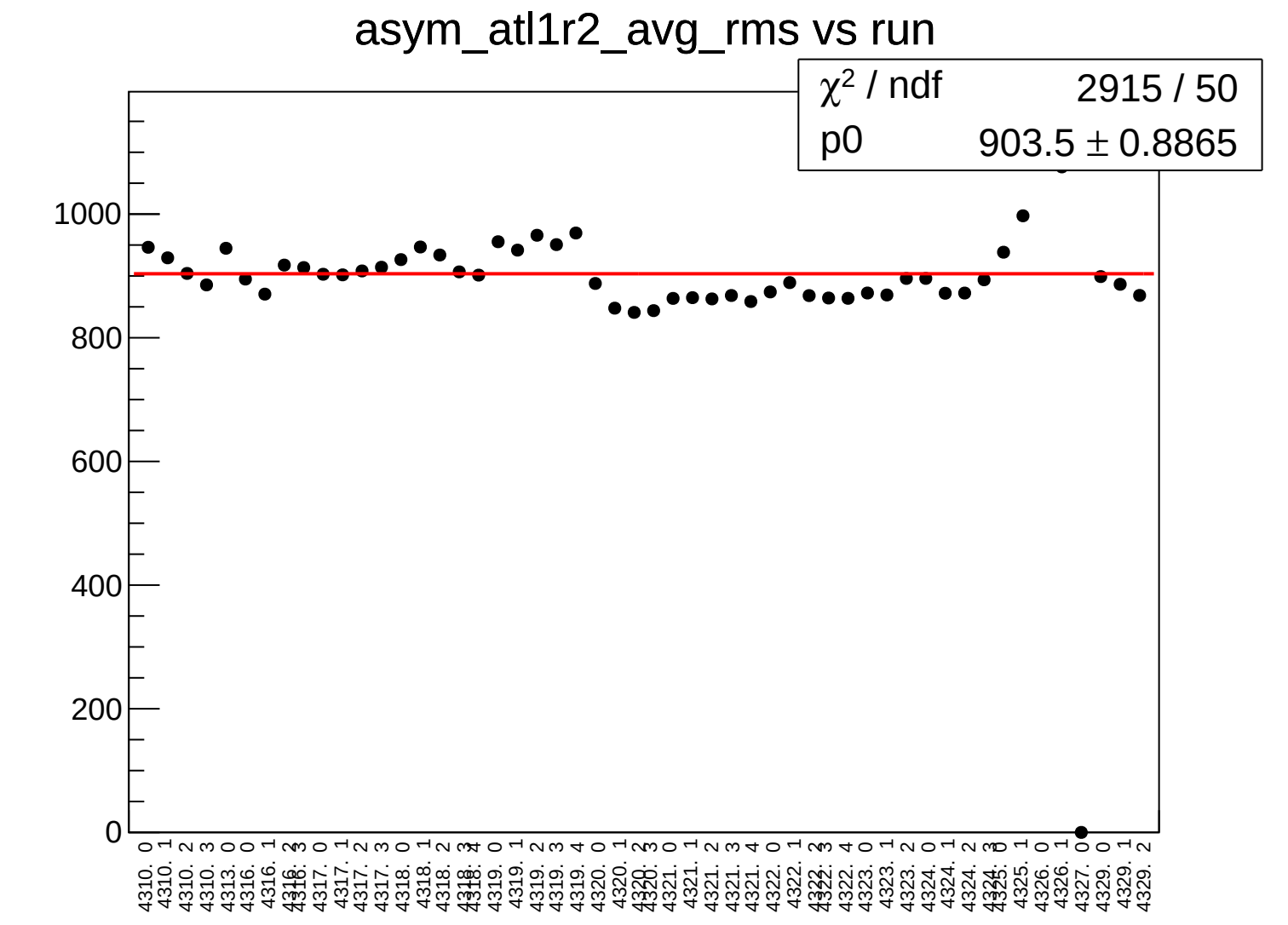

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 49.55 / 50
p0 330.8 ± 1147
30000
20000
10000
0
−10000
−20000
−30000

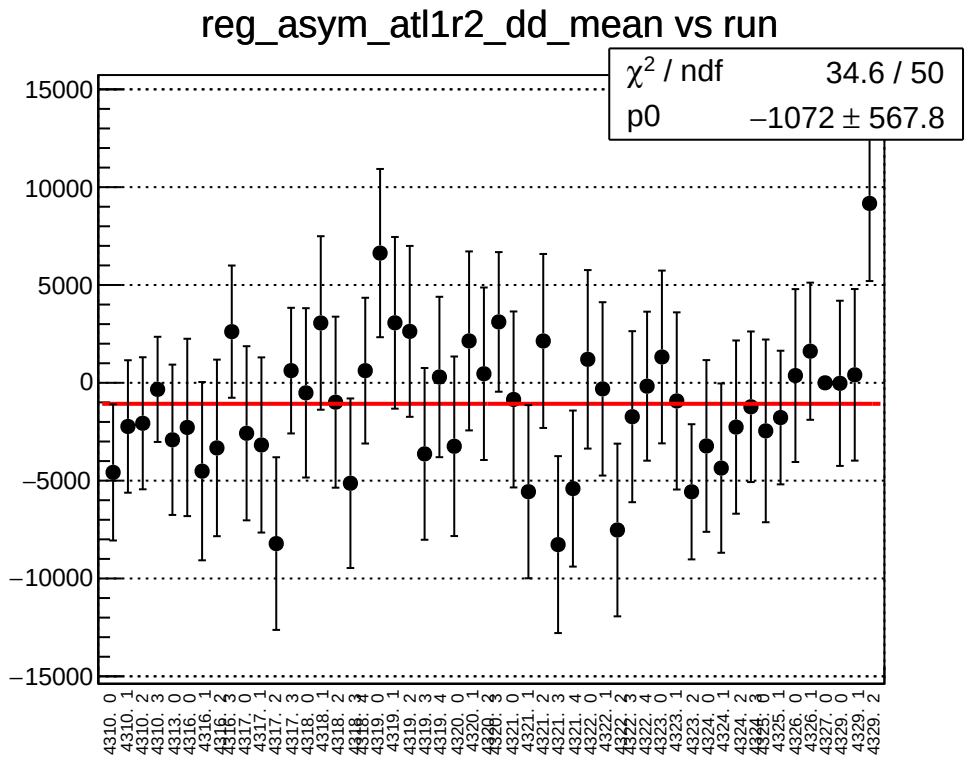

pull1D
Entries 52
Mean −0.001973
Std Dev 0.9856
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

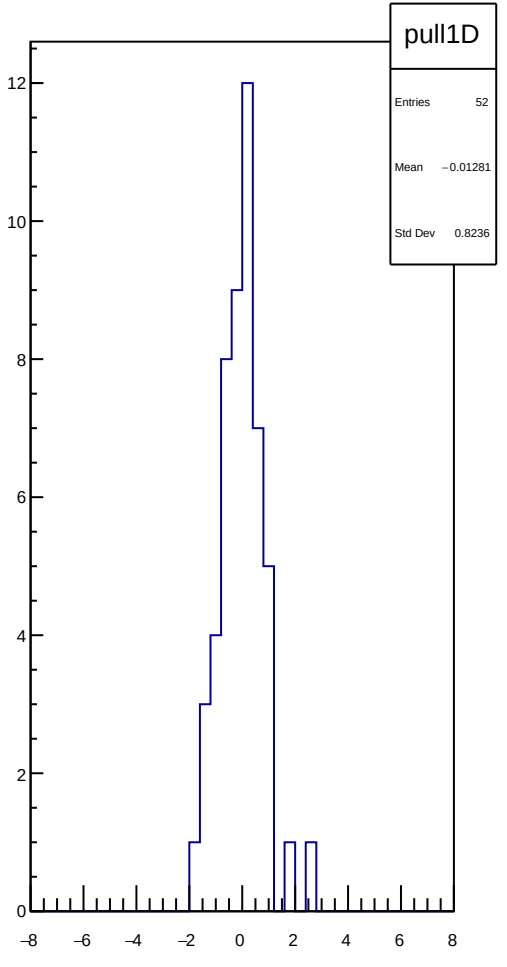

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4273 / 50
p0 826.3 ± 0.8112
1000
800
600
400
200
0


asym_atl1r2_avg_mean vs run
χ² / ndf 56.38 / 50
p0 259.9 ± 1254
30000
20000
10000
0
−10000
−20000
−30000
−40000


pull1D
Entries 52
Mean −0.01035
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_rms vs run
χ² / ndf 2915 / 50
p0 903.5 ± 0.8865
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_atl1r2_dd_mean vs run
χ² / ndf 34.6 / 50
p0 −1072 ± 567.8
15000
10000
5000
0
−5000
−10000
−15000


pull1D
Entries 52
Mean −0.01281
Std Dev 0.8236
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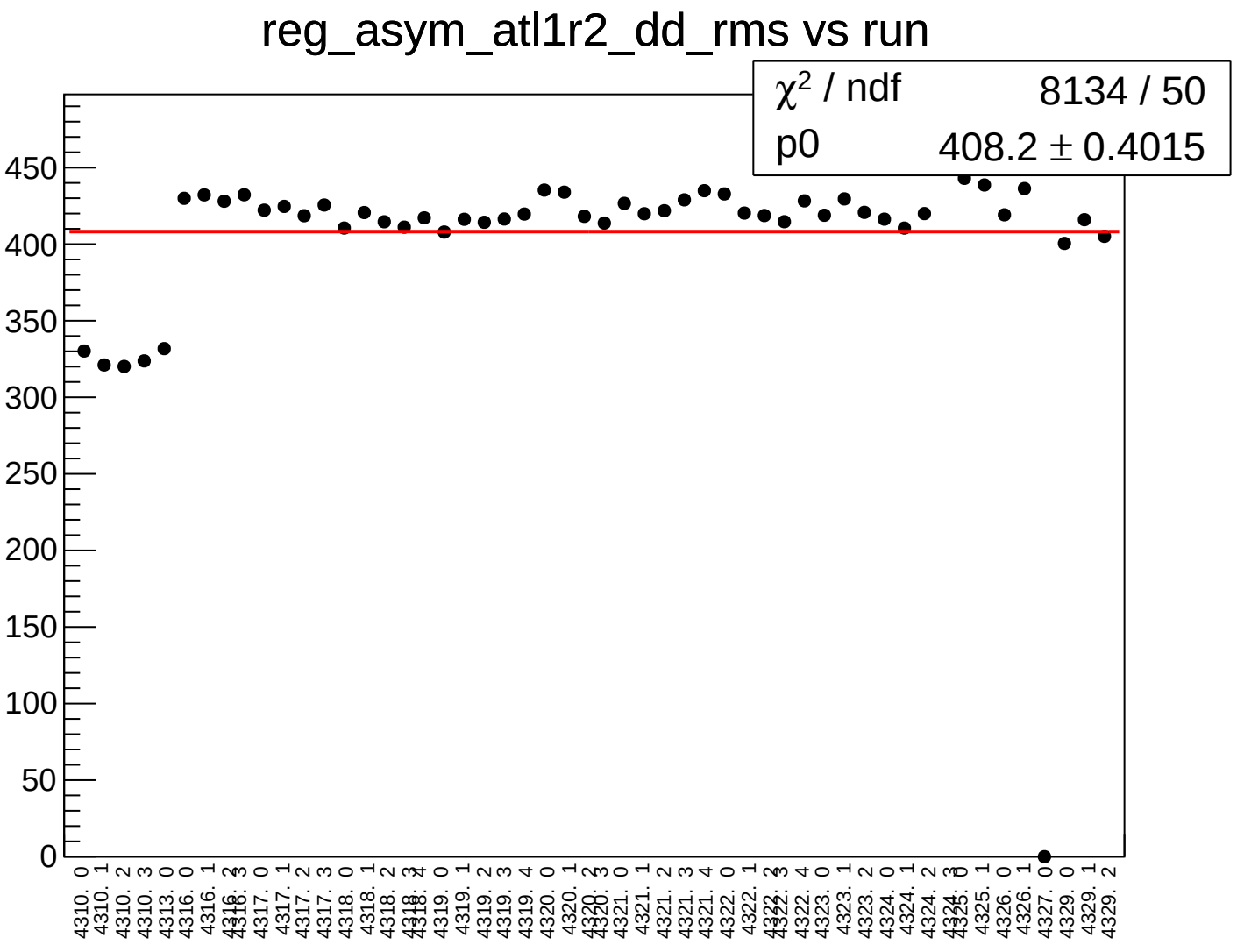
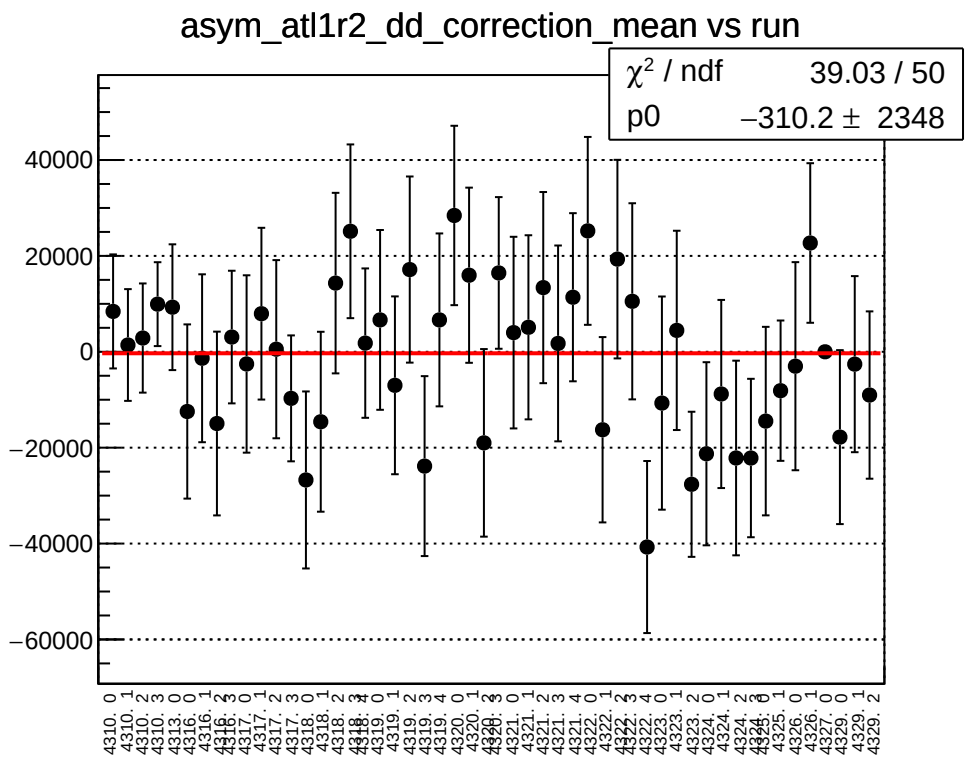
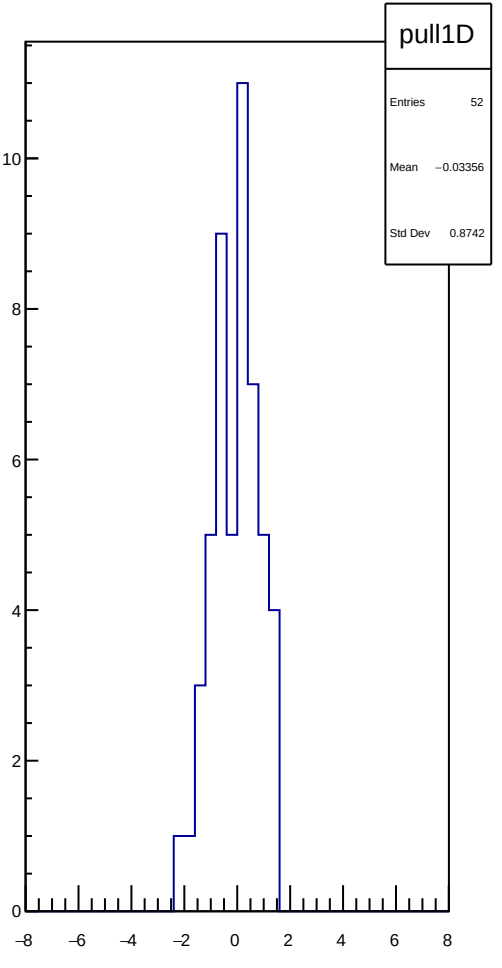
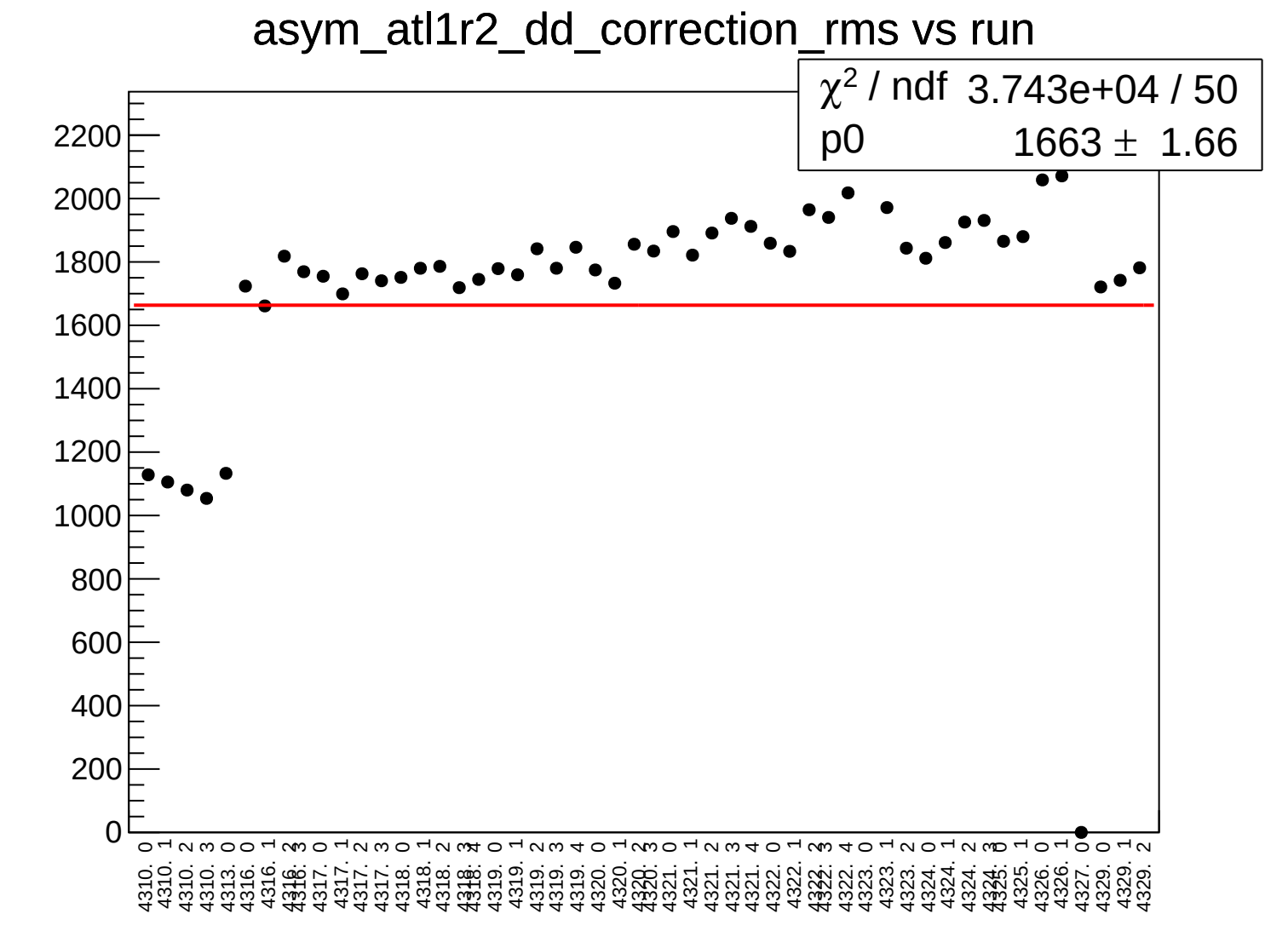
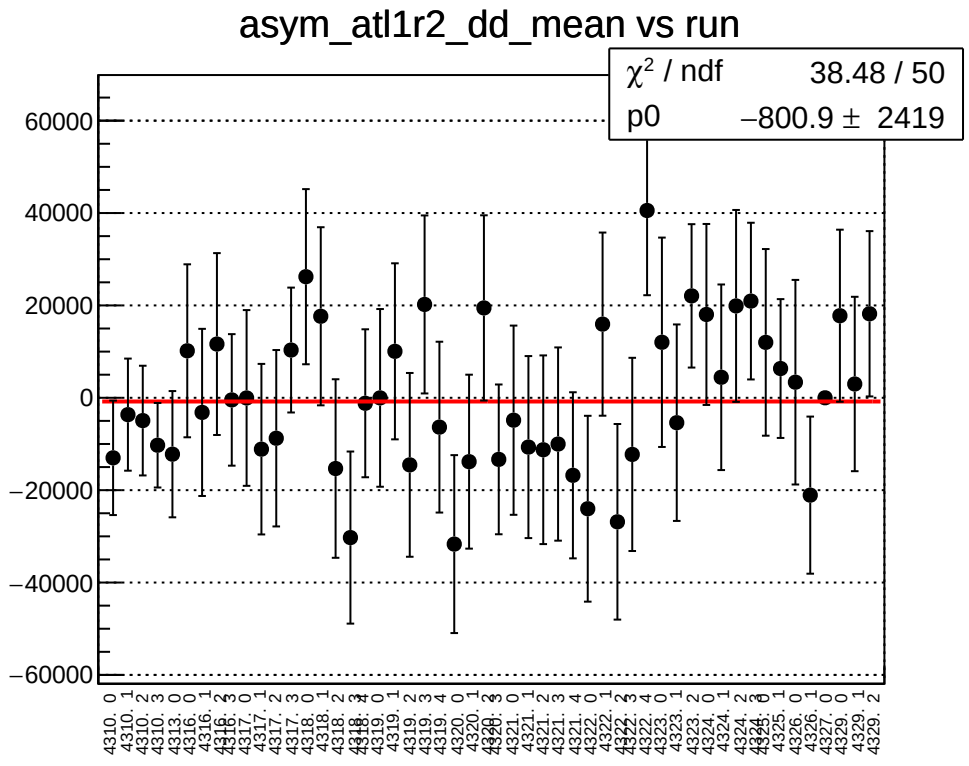
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

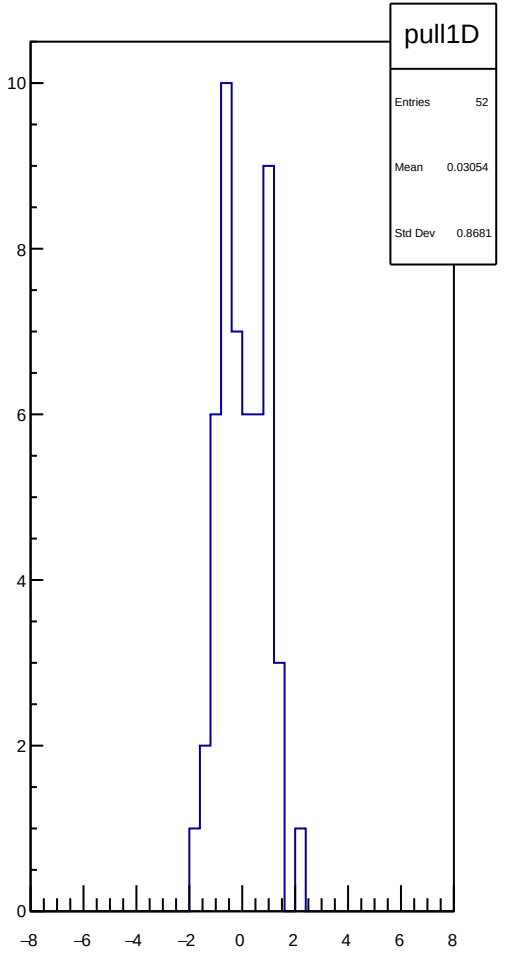

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 8134 / 50
p0 408.2 ± 0.4015
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

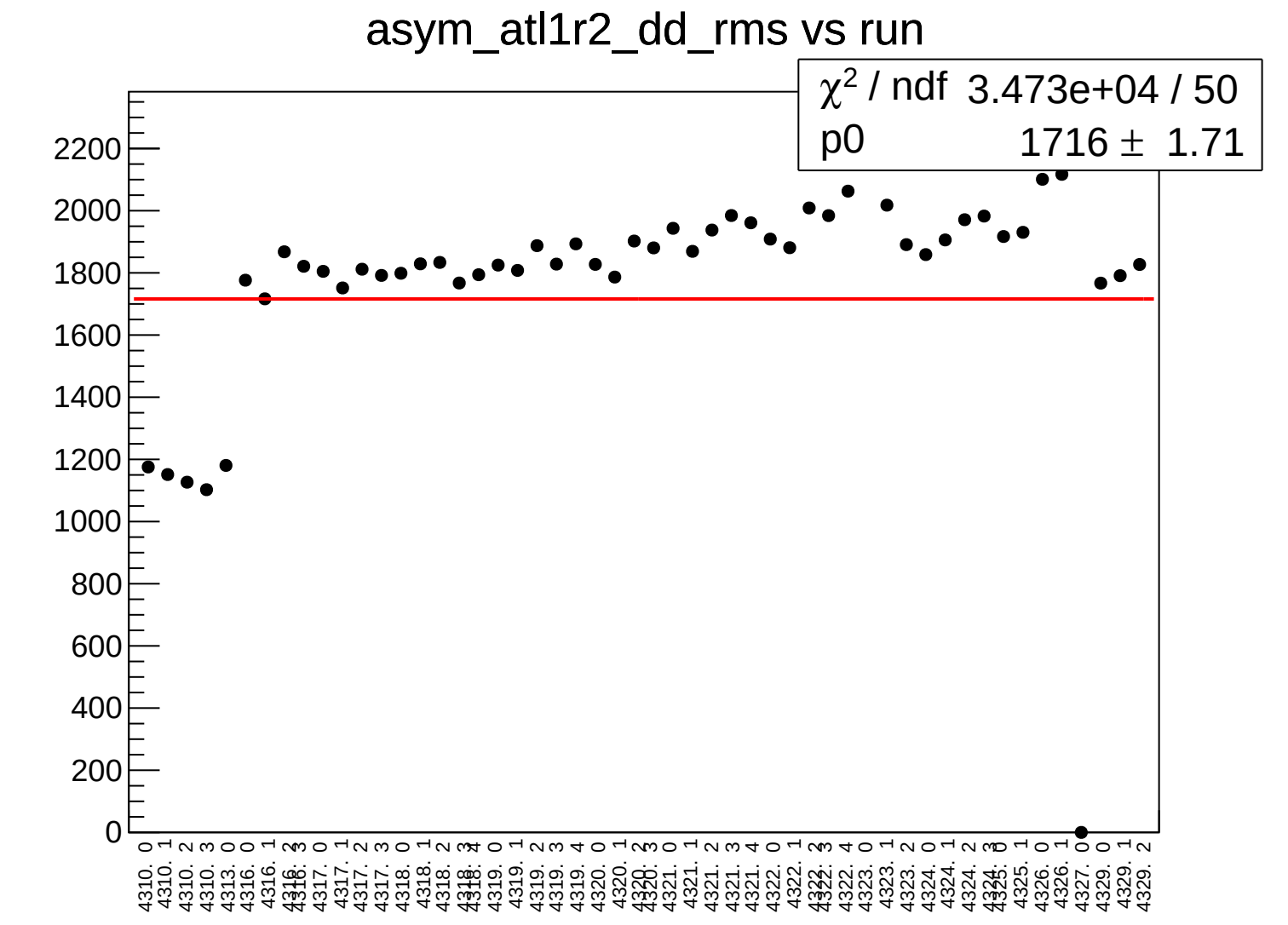

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 39.03 / 50
p0 −310.2 ± 2348
40000
20000
0
−20000
−40000
−60000

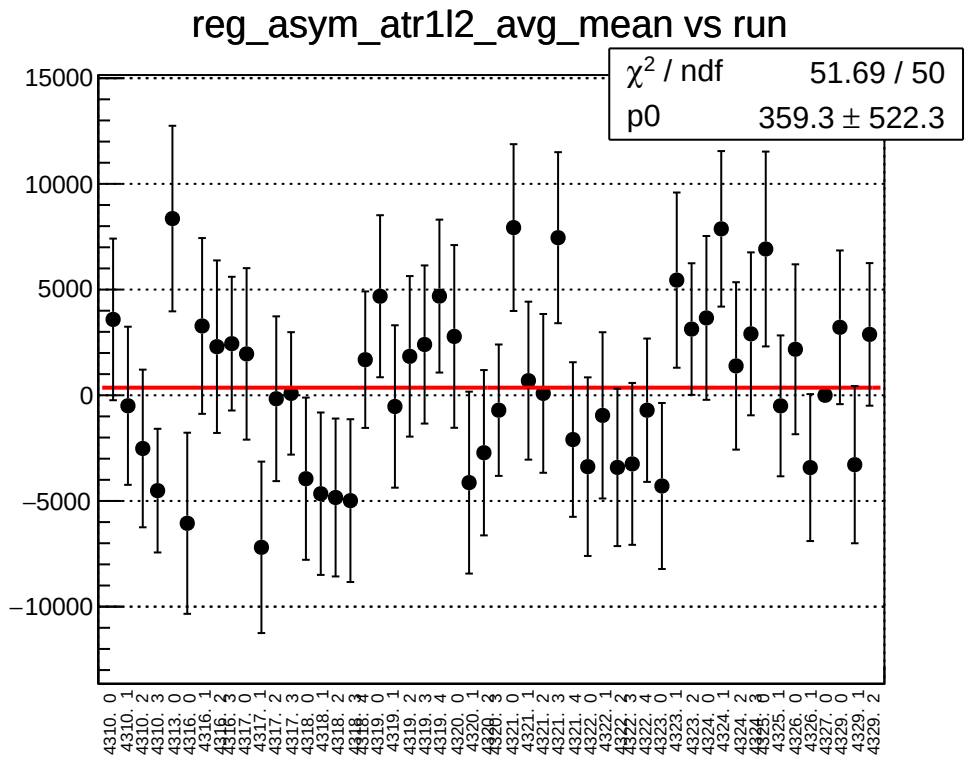

pull1D
Entries 52
Mean −0.03356
Std Dev 0.8742
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

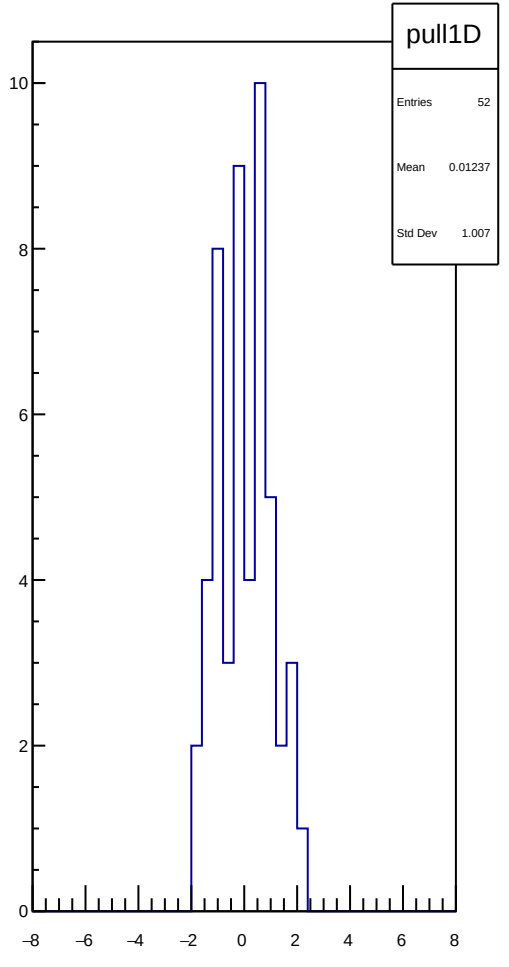

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3.743e+04 / 50
p0 1663 ± 1.66
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

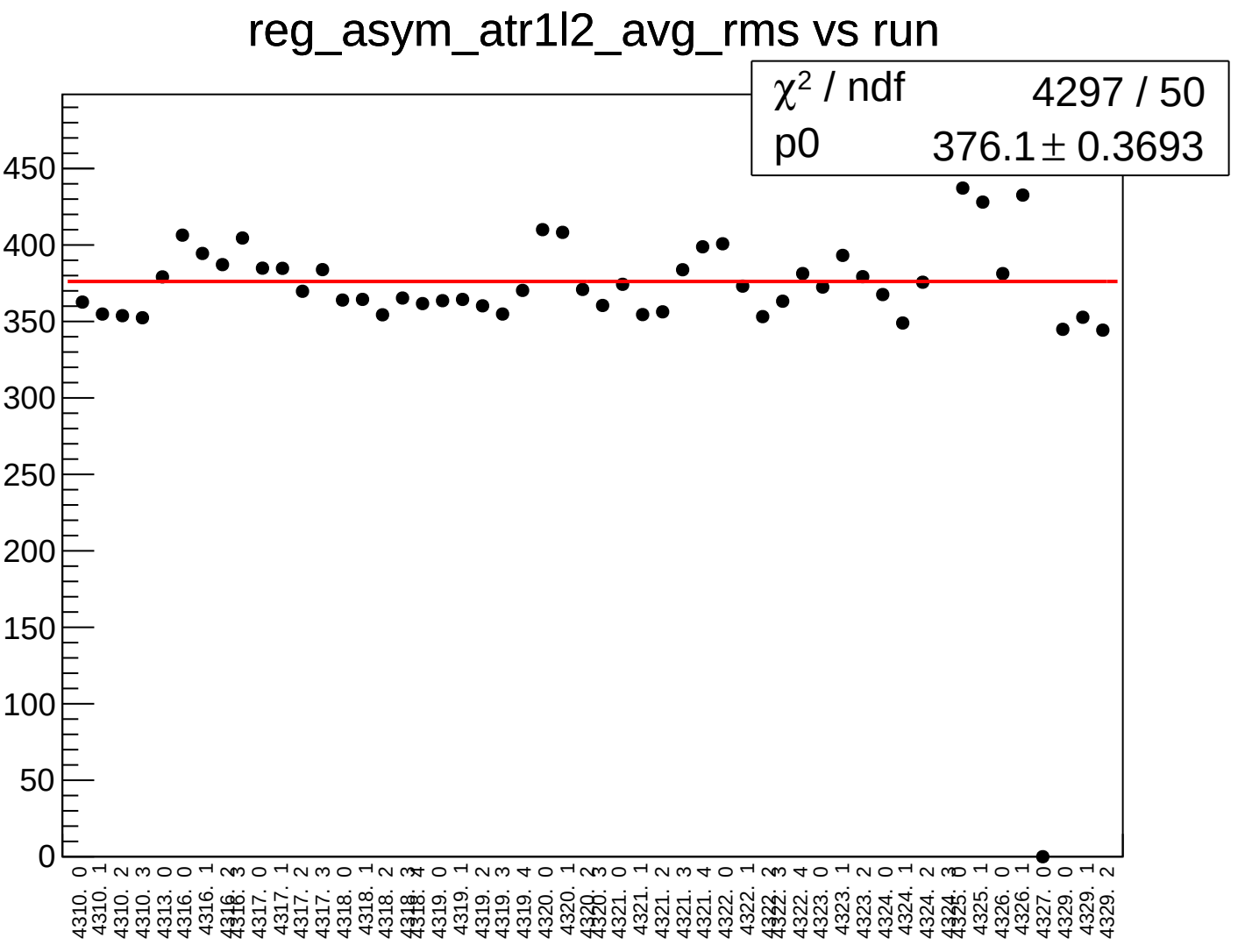

asym_atl1r2_dd_mean vs run
χ² / ndf 38.48 / 50
p0 −800.9 ± 2419
60000
40000
20000
0
−20000
−40000
−60000

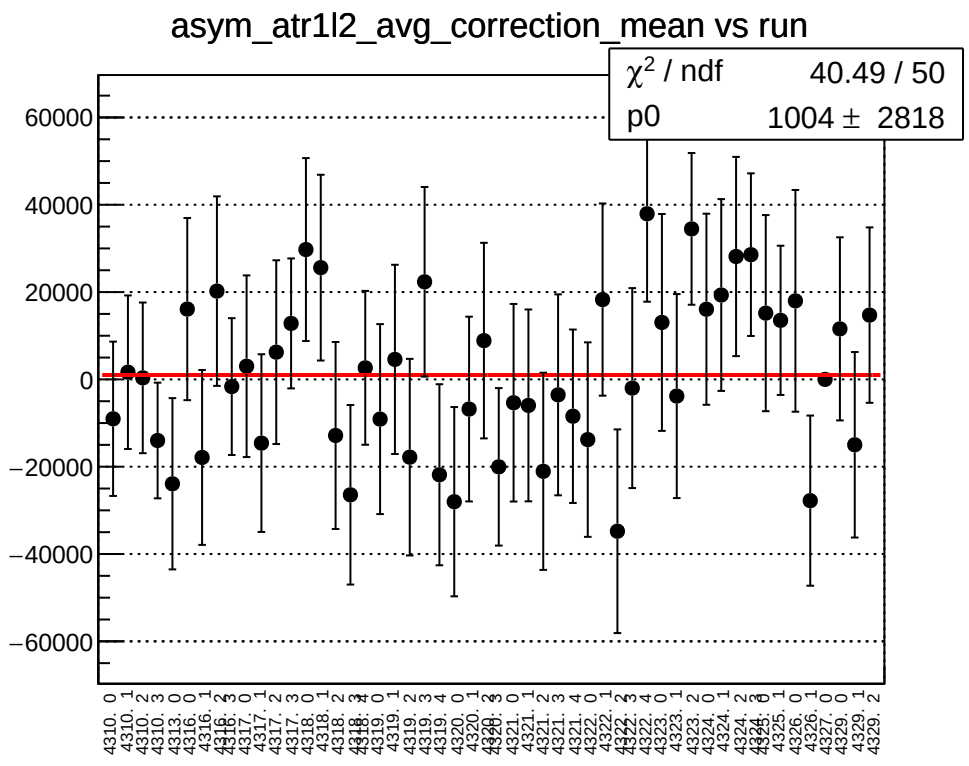

pull1D
Entries 52
Mean 0.03054
Std Dev 0.8681
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

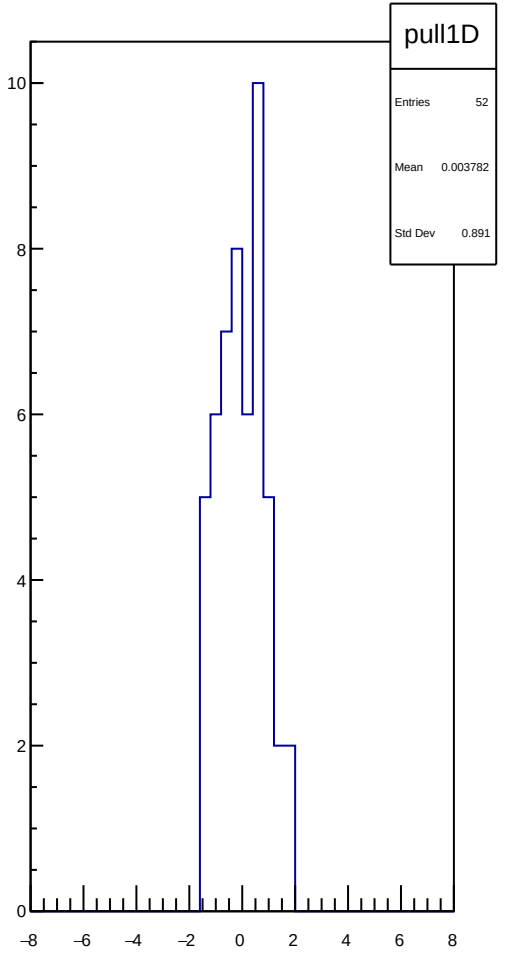

asym_atl1r2_dd_rms vs run
χ² / ndf 3.473e+04 / 50
p0 1716 ± 1.71
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

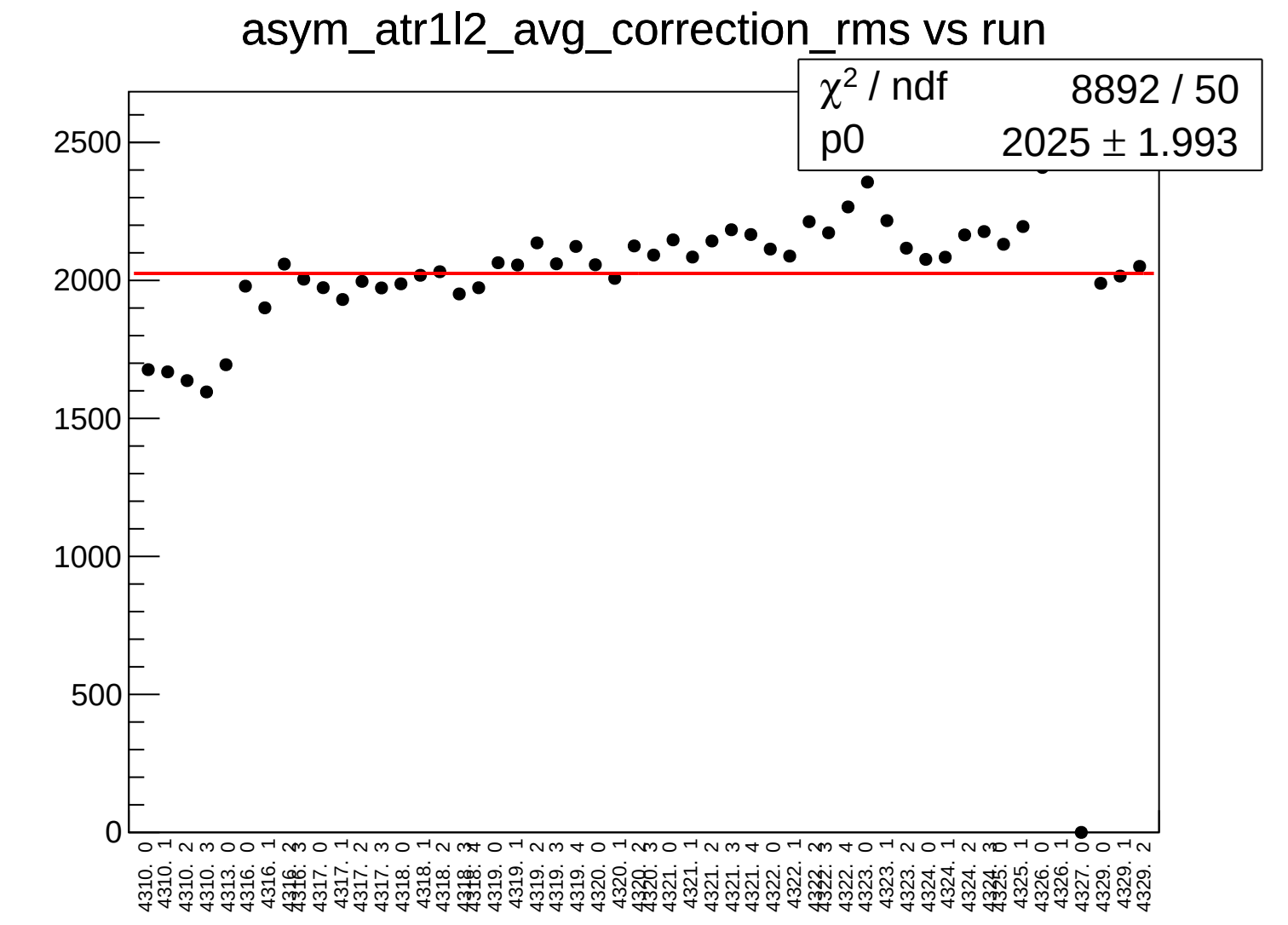

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 51.69 / 50
p0 359.3 ± 522.3
15000
10000
5000
0
−5000
−10000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.01237
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 4297 / 50
p0 376.1 ± 0.3693
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_atr1l2_avg_correction_mean vs run
χ² / ndf 40.49 / 50
p0 1004 ± 2818
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean 0.003782
Std Dev 0.891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 8892 / 50
p0 2025 ± 1.993
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
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4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
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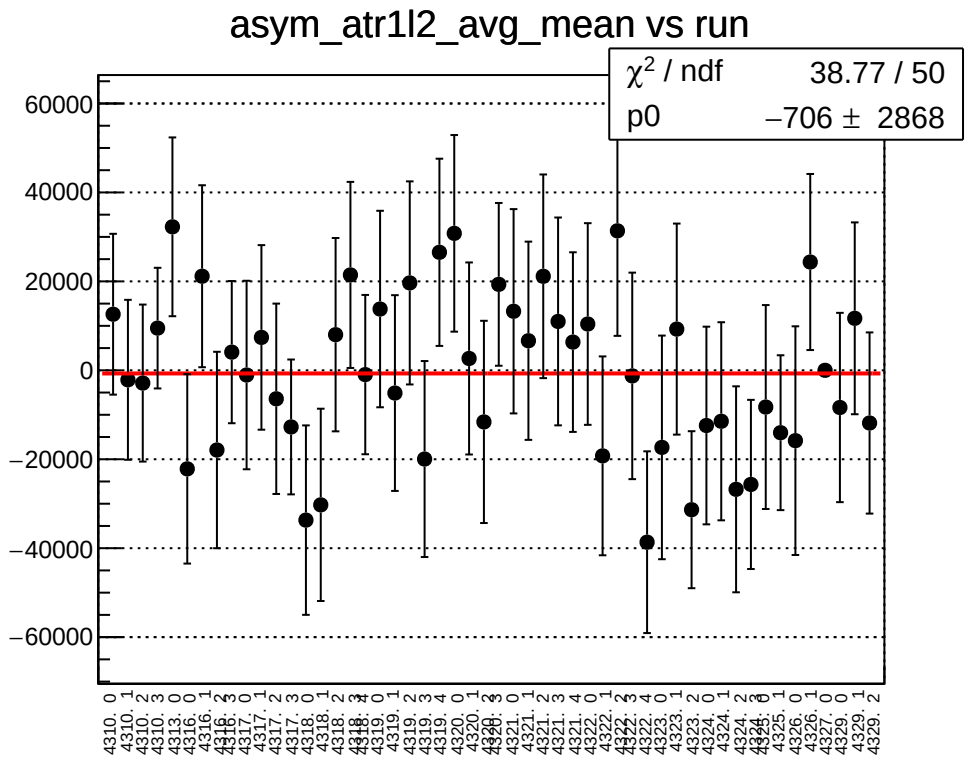
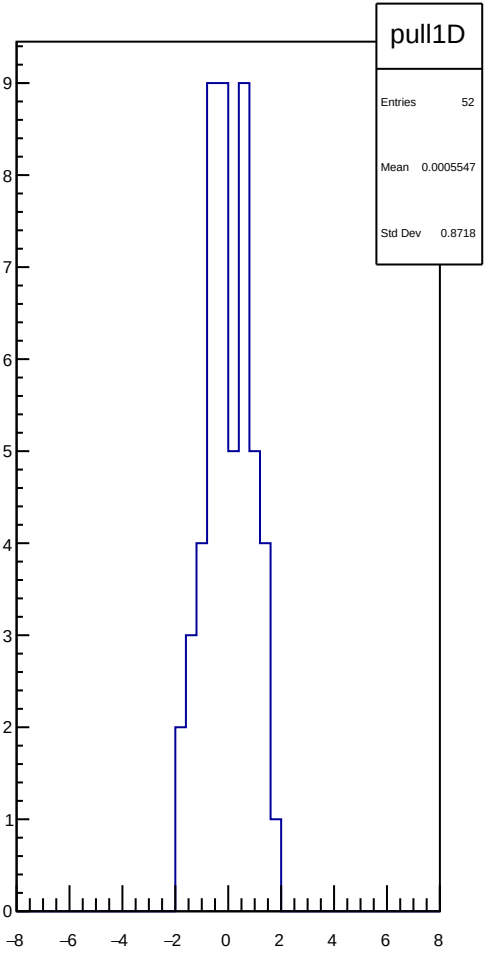
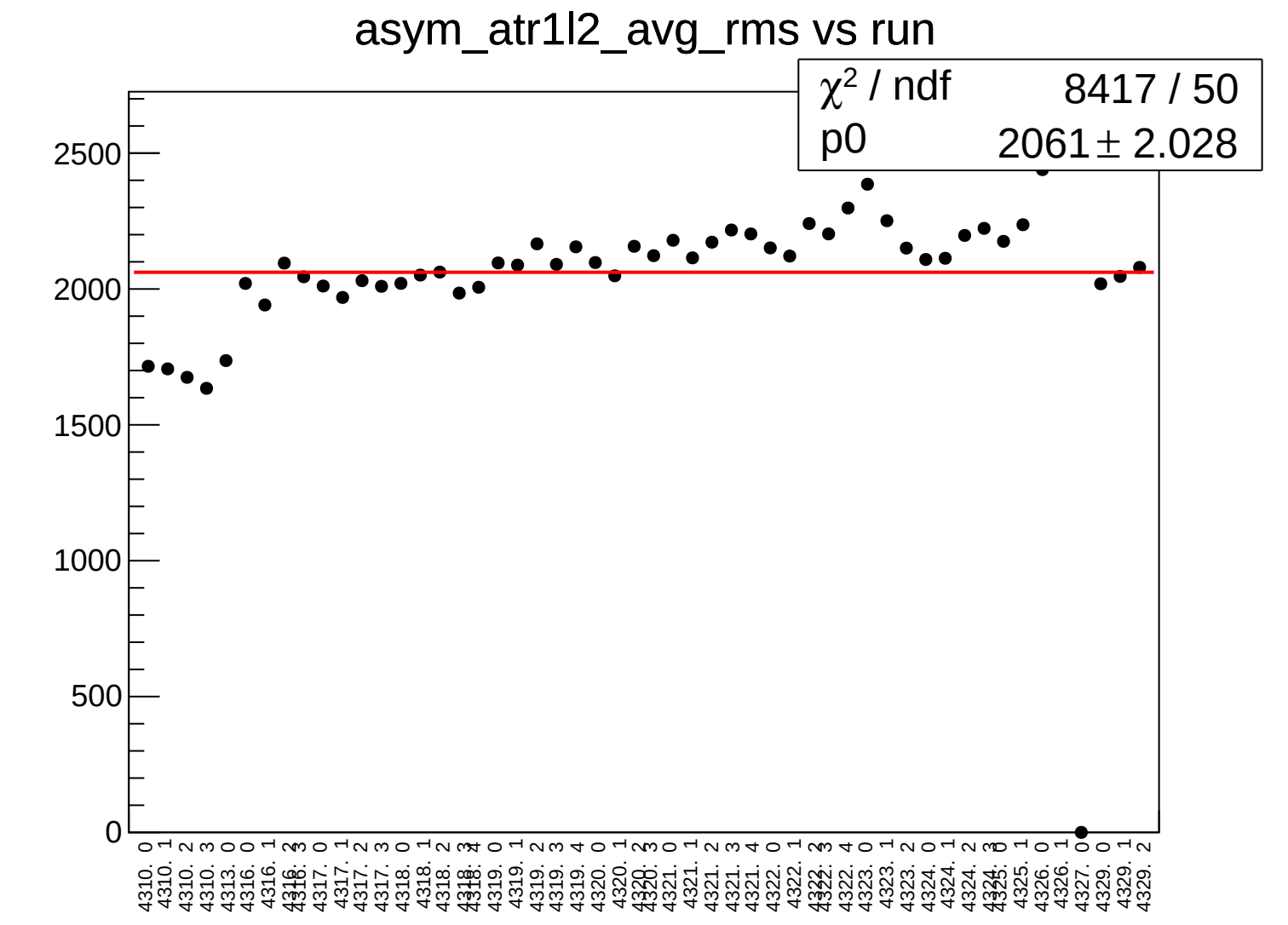
4329. 2


asym_atr1l2_avg_mean vs run
χ² / ndf 38.77 / 50
p0 −706 ± 2868
60000
40000
20000
0
−20000
−40000
−60000


pull1D
Entries 52
Mean 0.0005547
Std Dev 0.8718
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 8417 / 50
p0 2061 ± 2.028
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
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4326. 0
4326. 1
4327. 0
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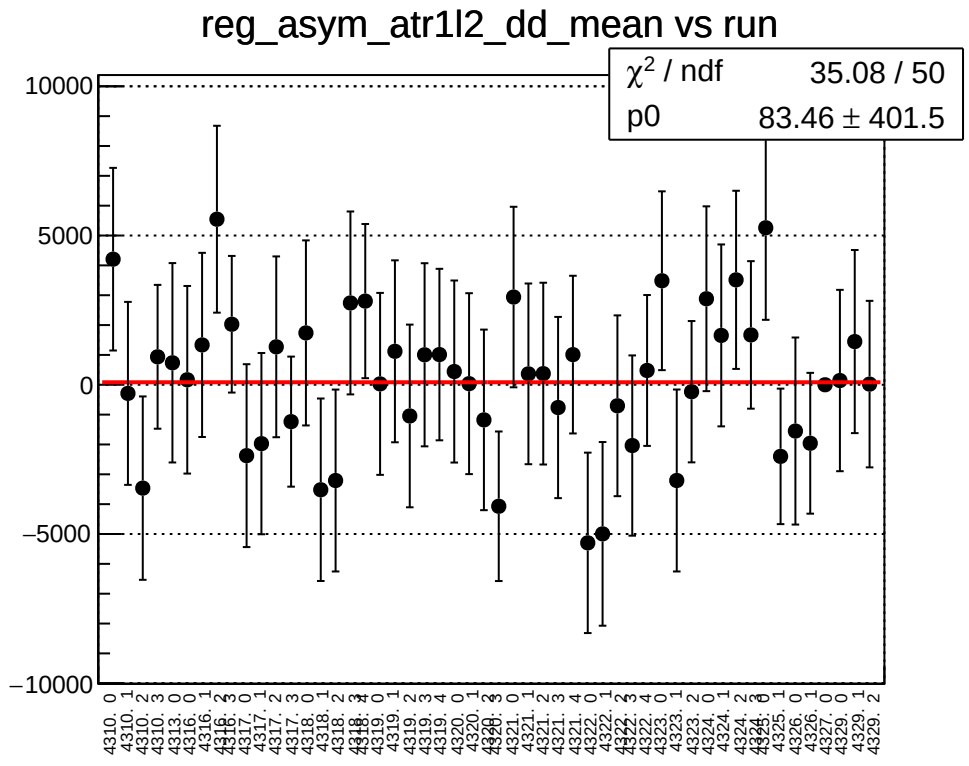
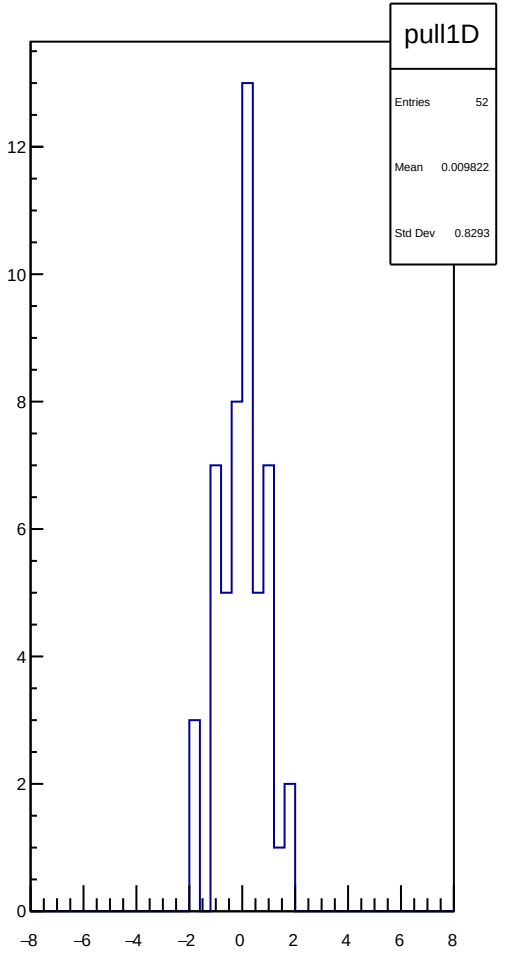
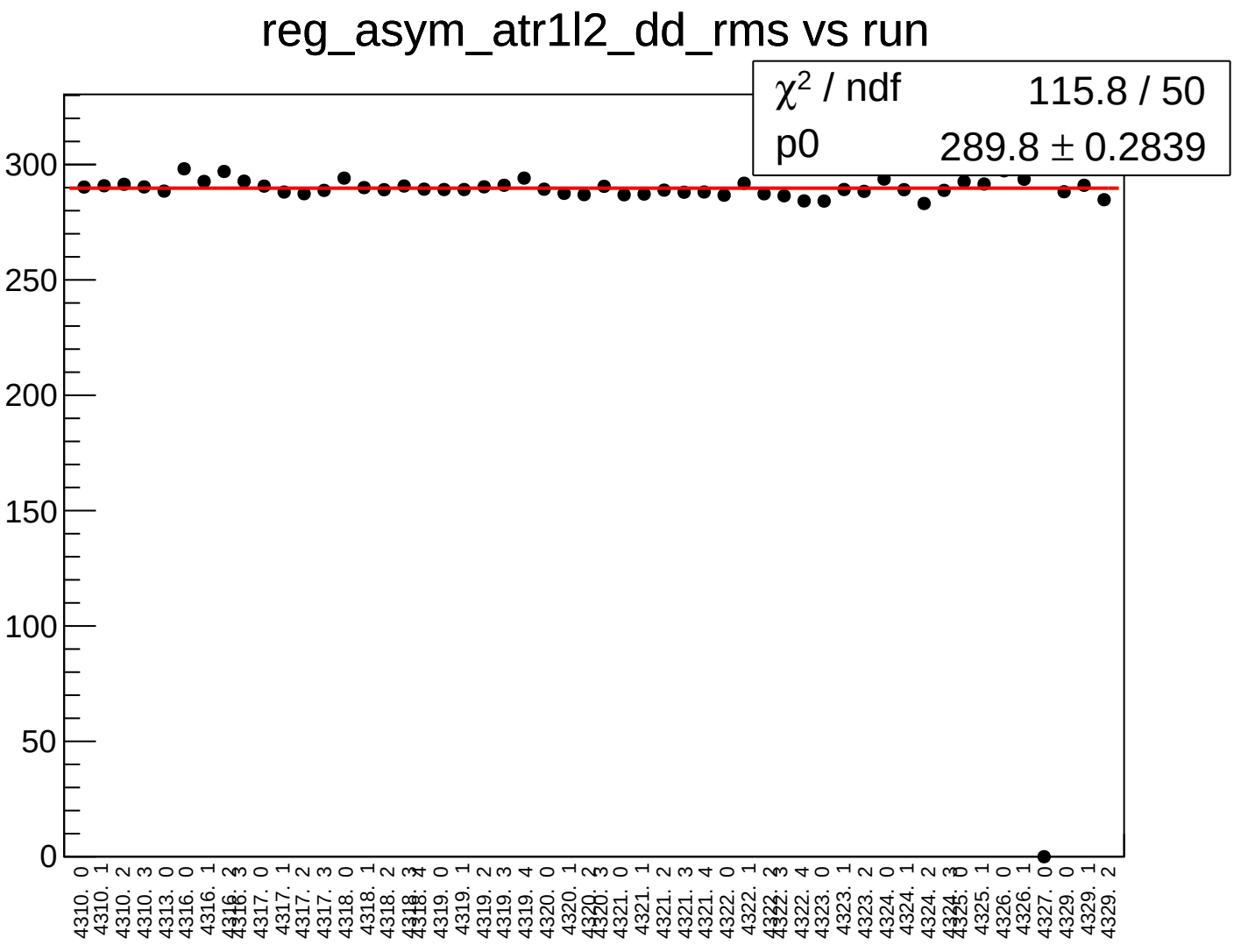
4329. 1
4329. 2


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 35.08 / 50
p0 83.46 ± 401.5
10000
5000
0
−5000
−10000


pull1D
Entries 52
Mean 0.009822
Std Dev 0.8293
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 115.8 / 50
p0 289.8 ± 0.2839
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
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4323. 1
4323. 2
4324. 0
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4324. 2
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4325. 0
4325. 1
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4326. 1
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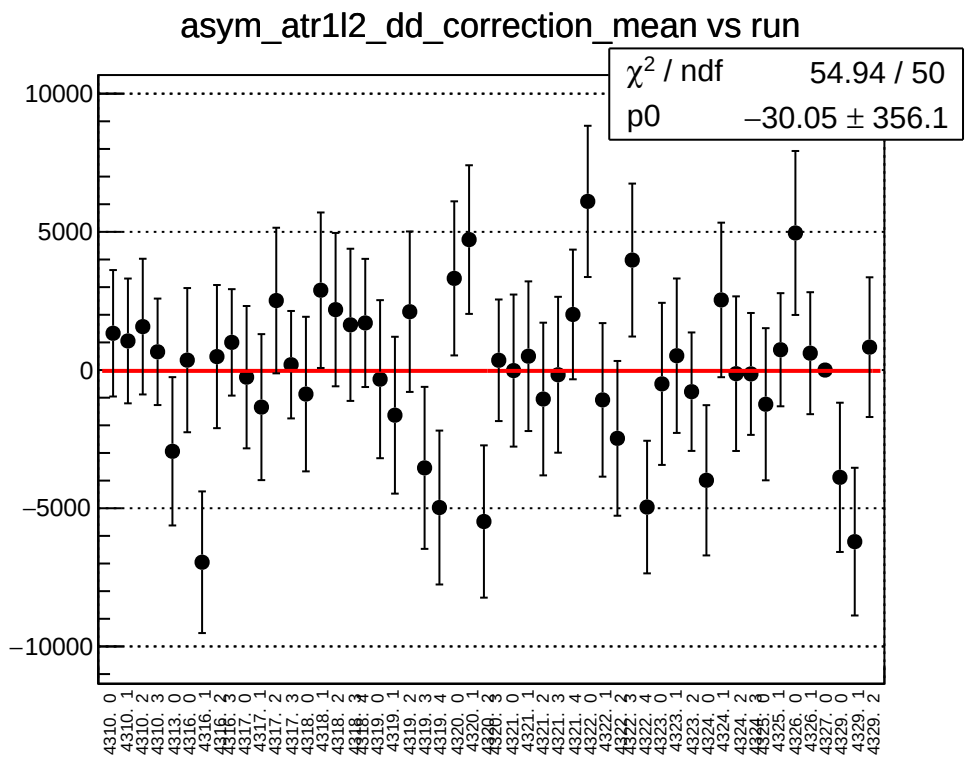
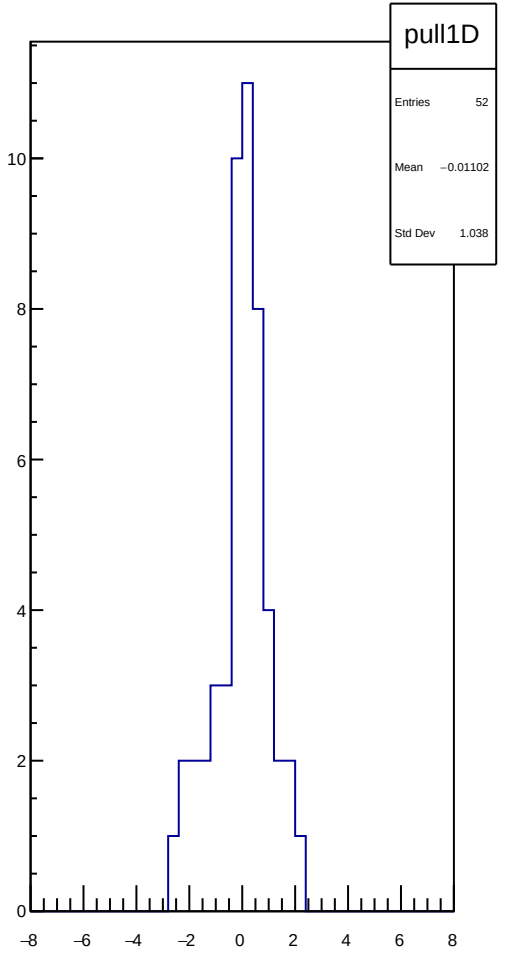
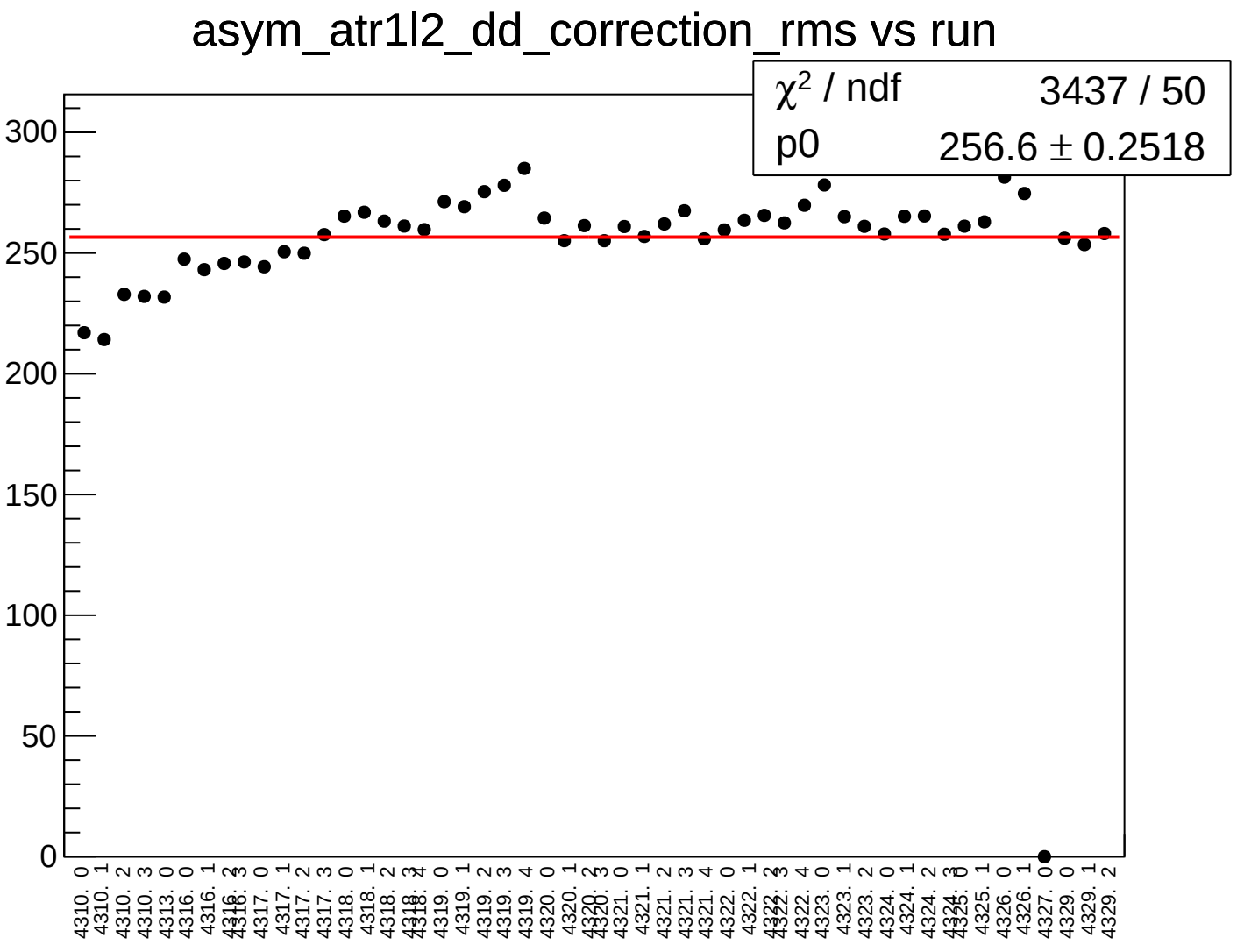
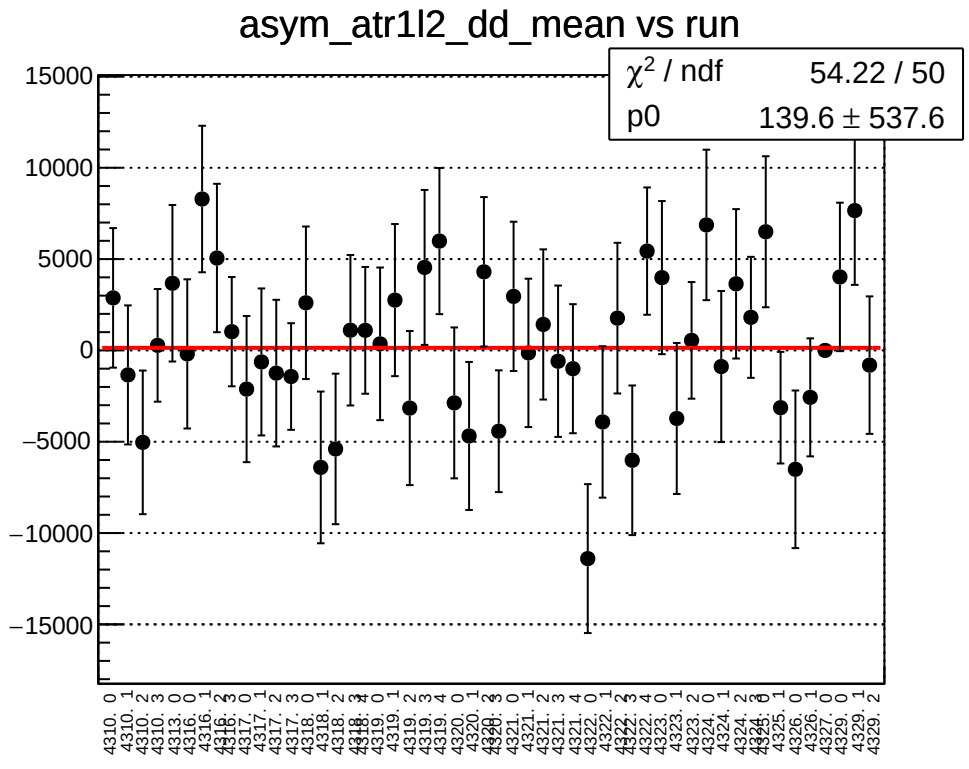
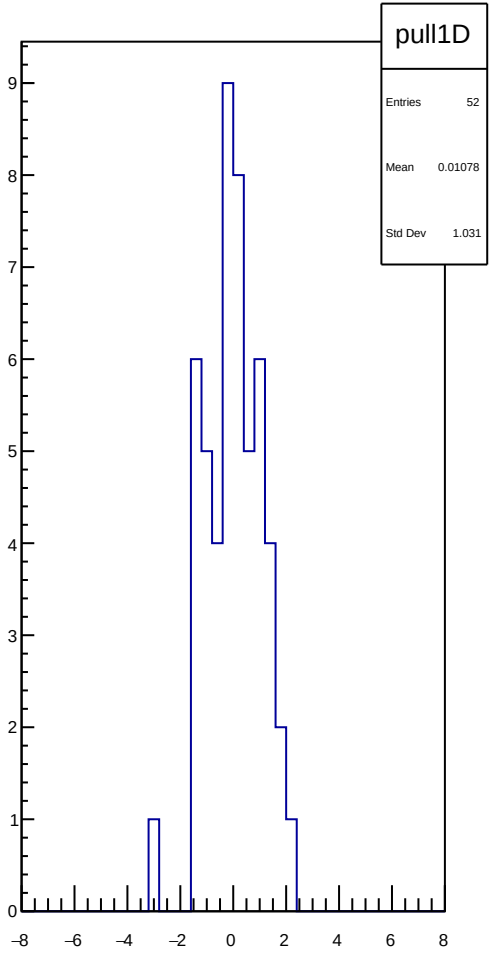
4329. 0
4329. 1
4329. 2

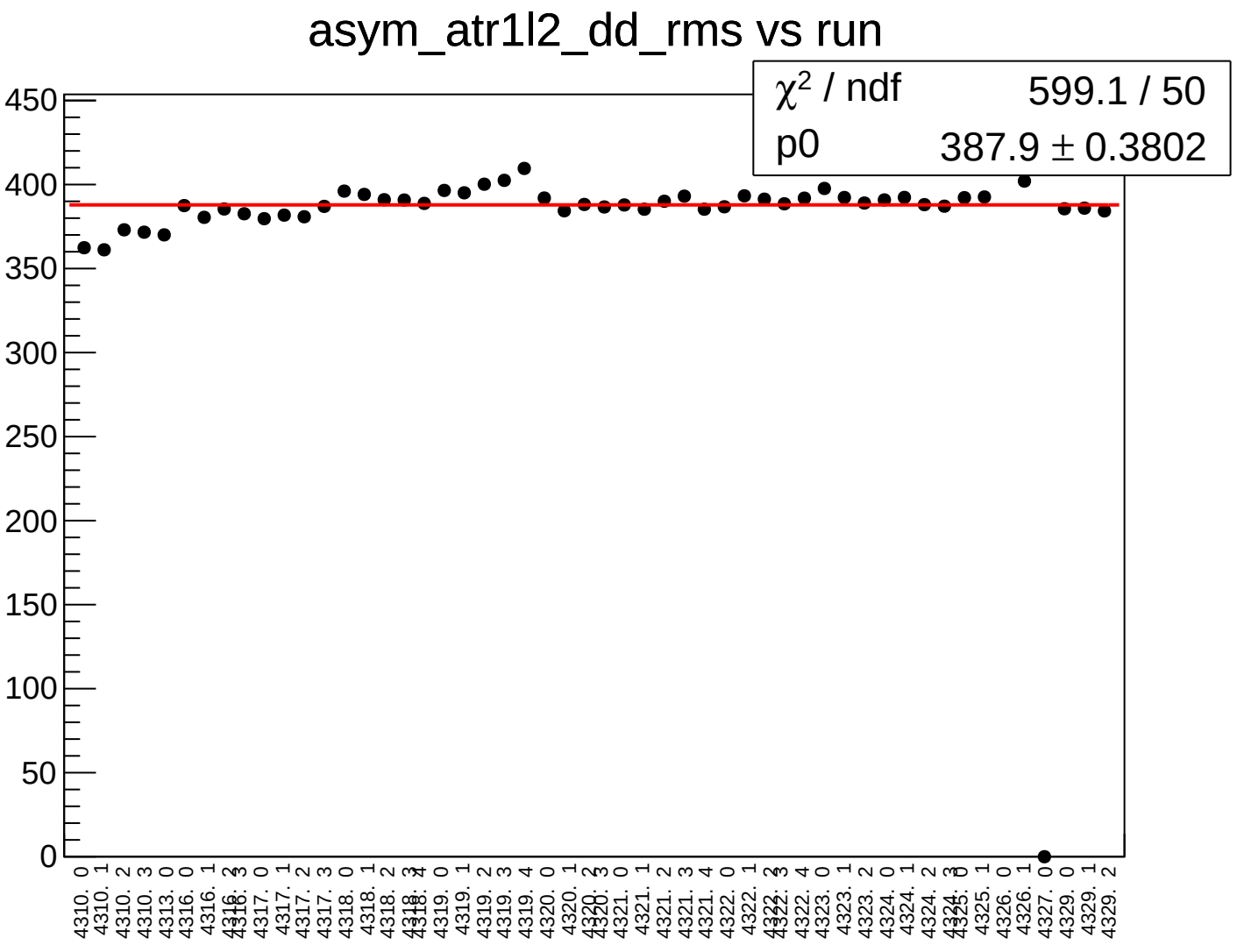

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 54.94 / 50
p0 −30.05 ± 356.1
10000
5000
0
−5000
−10000

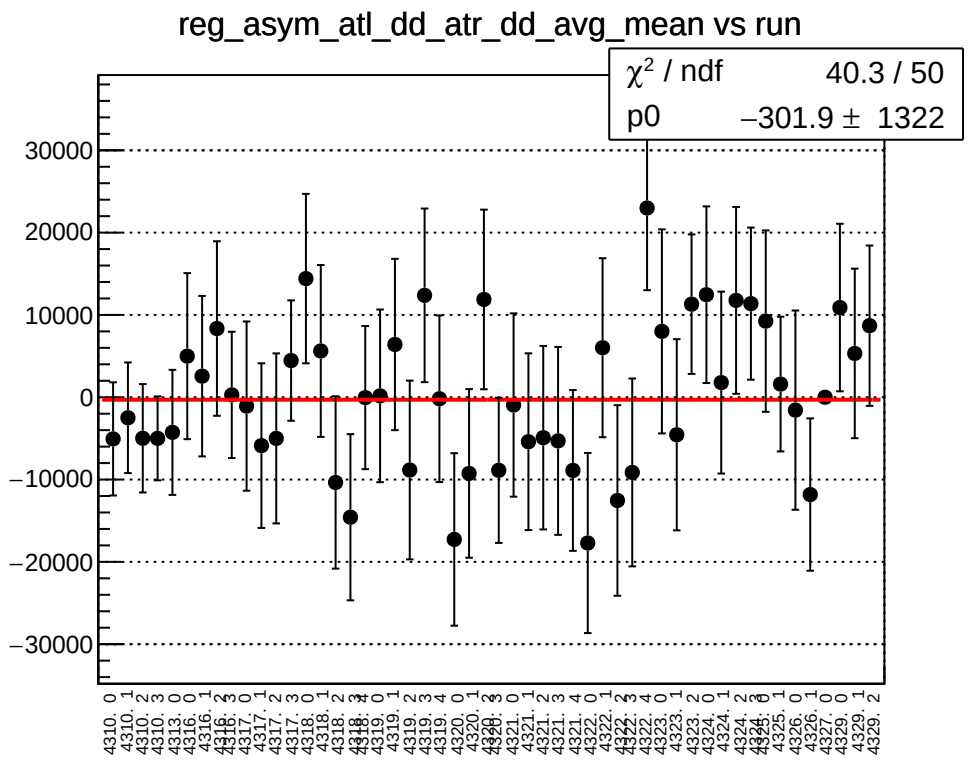

pull1D
Entries 52
Mean −0.01102
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

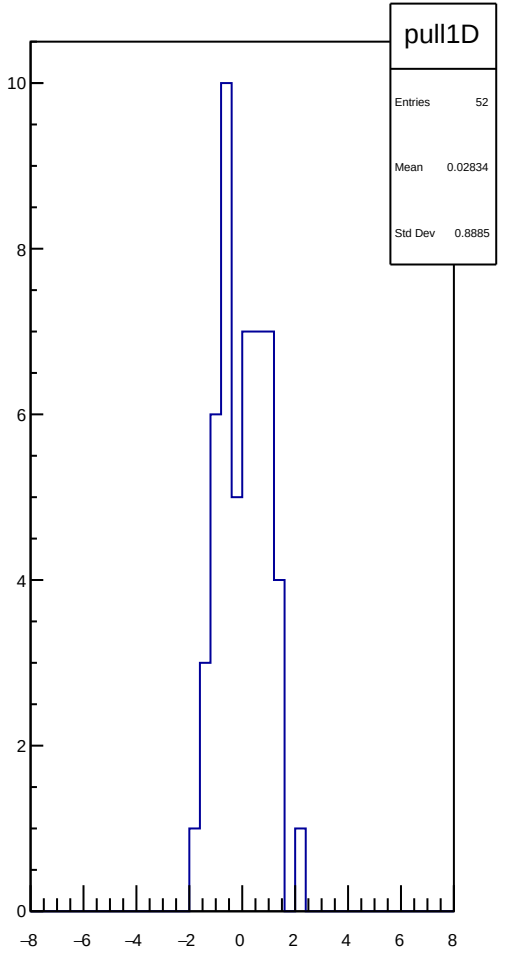

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3437 / 50
p0 256.6 ± 0.2518
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

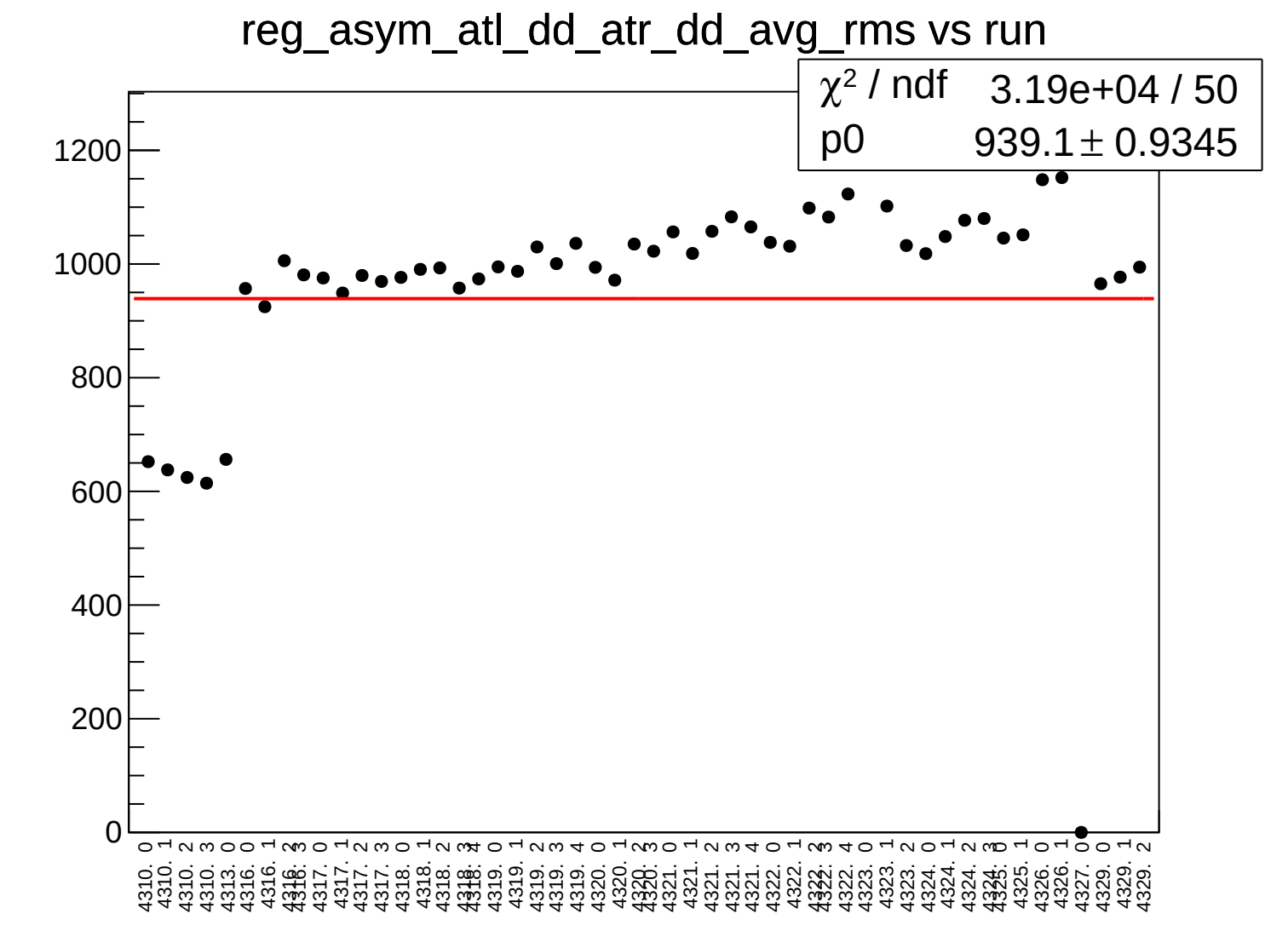

asym_atr1l2_dd_mean vs run
χ^2 / ndf 54.22 / 50
p0 139.6 ± 537.6
15000
10000
5000
0
−5000
−10000
−15000

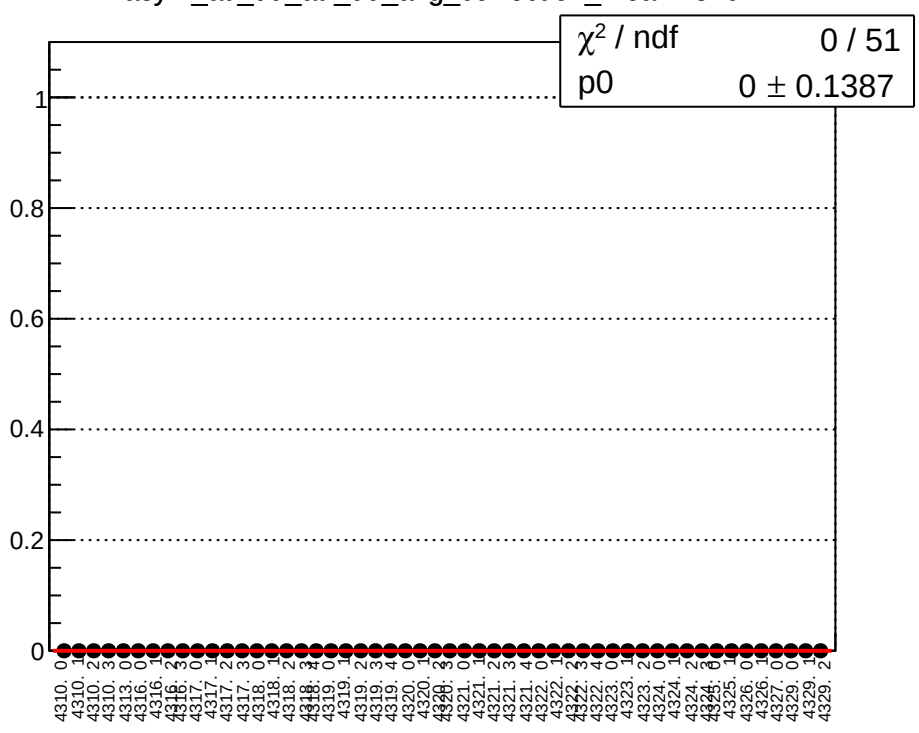

pull1D
Entries 52
Mean 0.01078
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

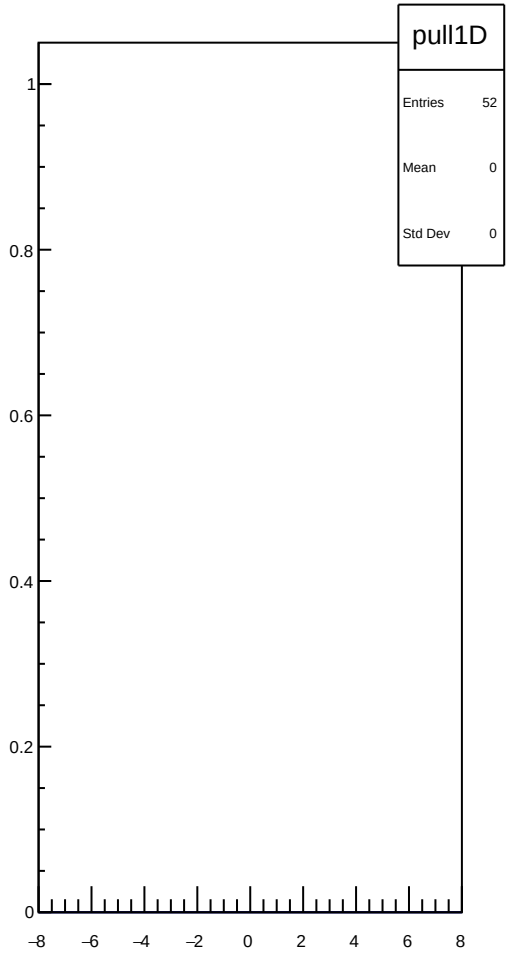

asym_atr1l2_dd_rms vs run
χ² / ndf 599.1 / 50
p0 387.9 ± 0.3802
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

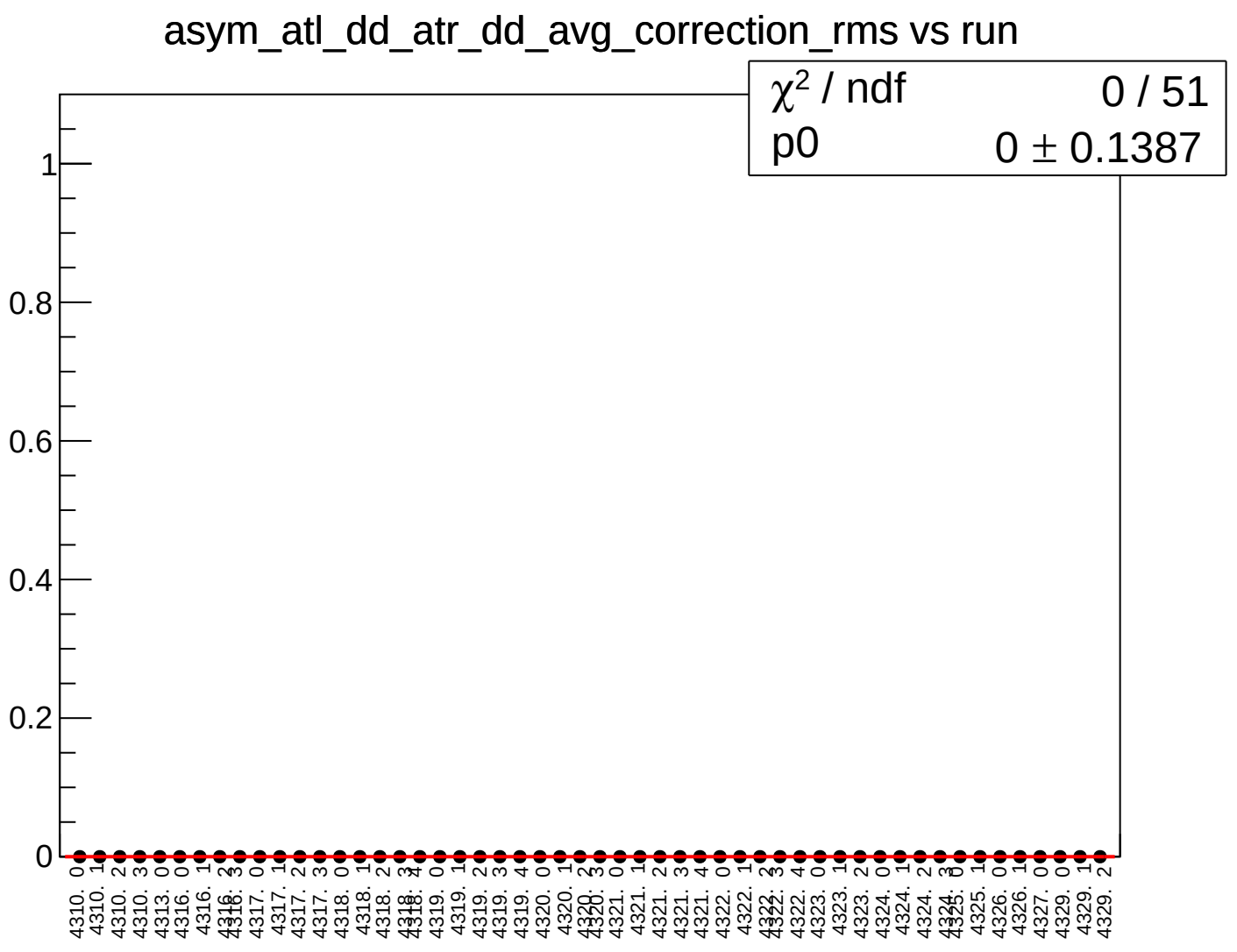

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 40.3 / 50
p0 −301.9 ± 1322
30000
20000
10000
0
−10000
−20000
−30000

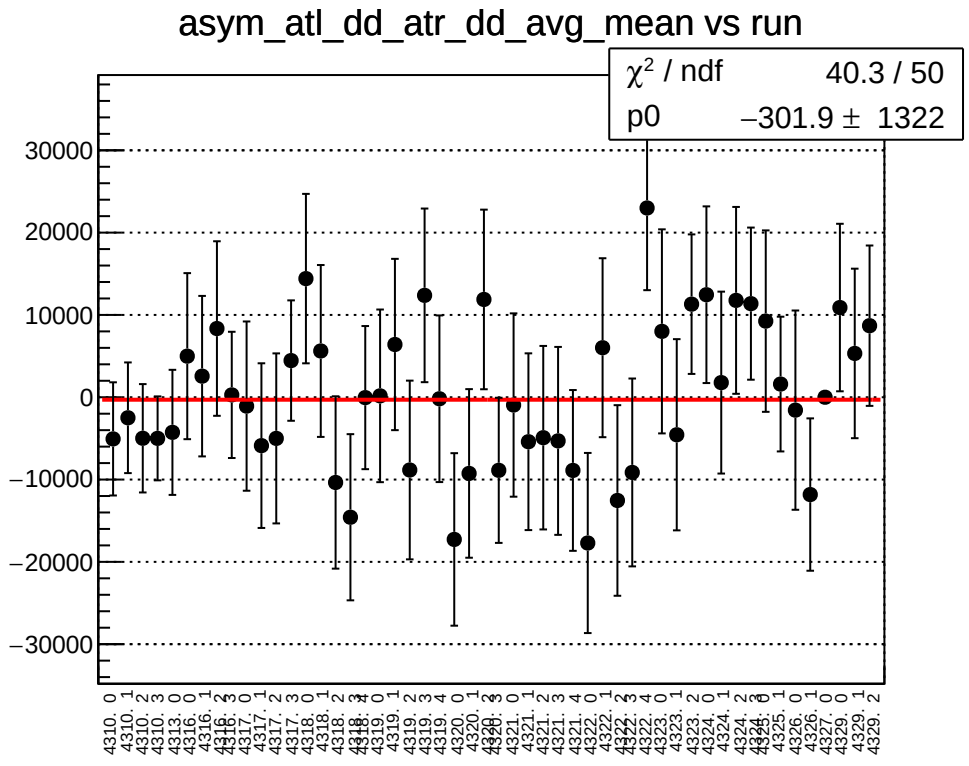

pull1D
Entries 52
Mean 0.02834
Std Dev 0.8885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

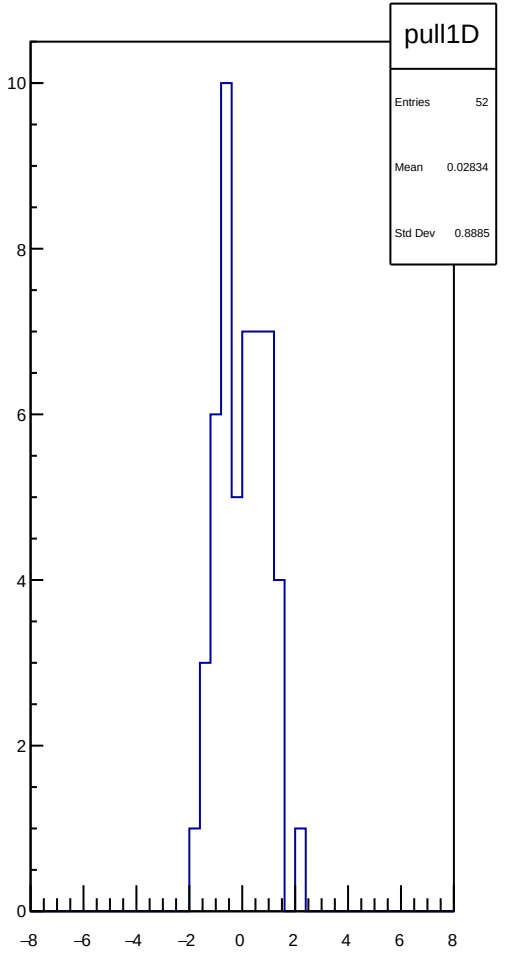

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3.19e+04 / 50
p0 939.1 ± 0.9345
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

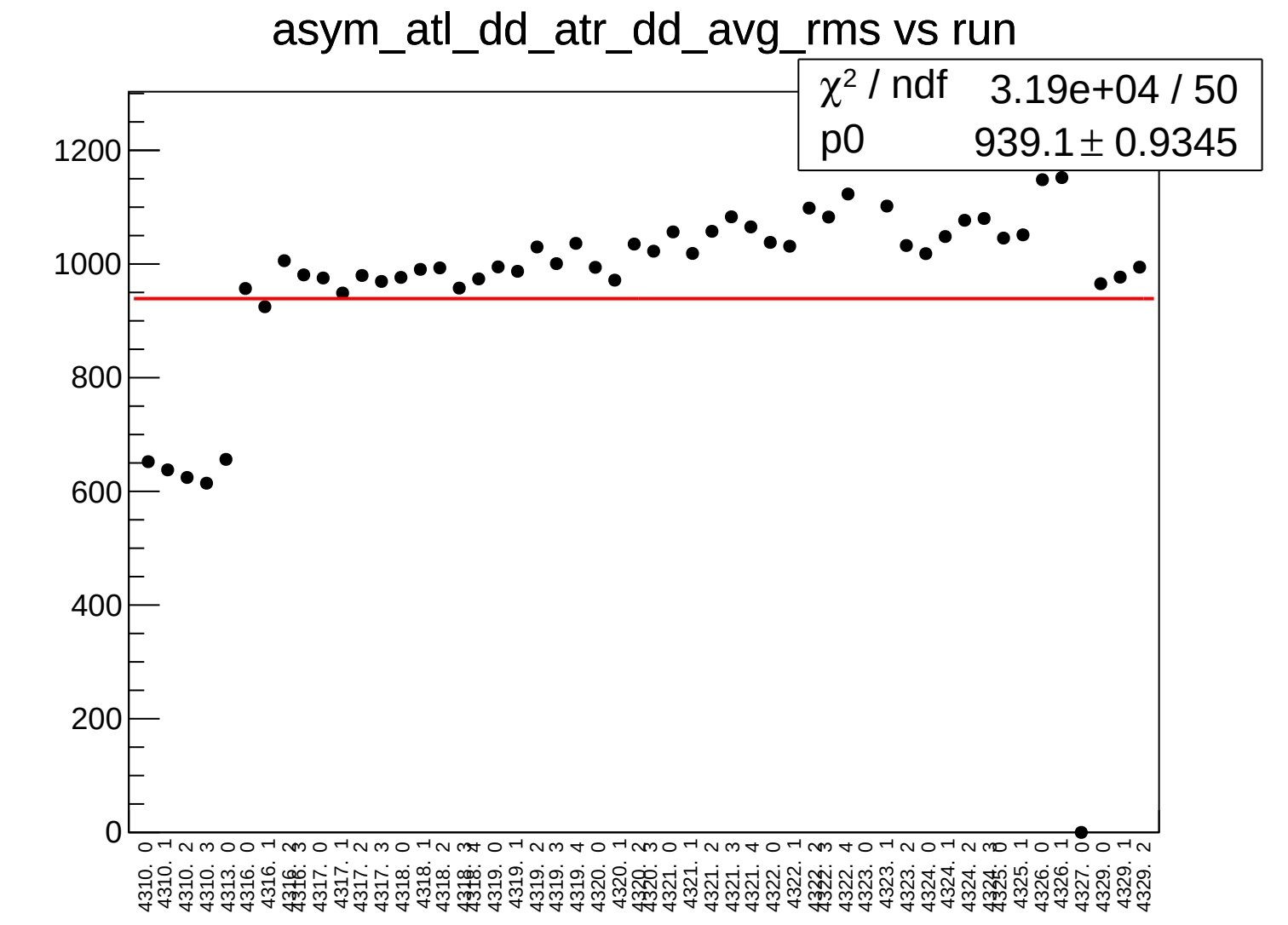

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

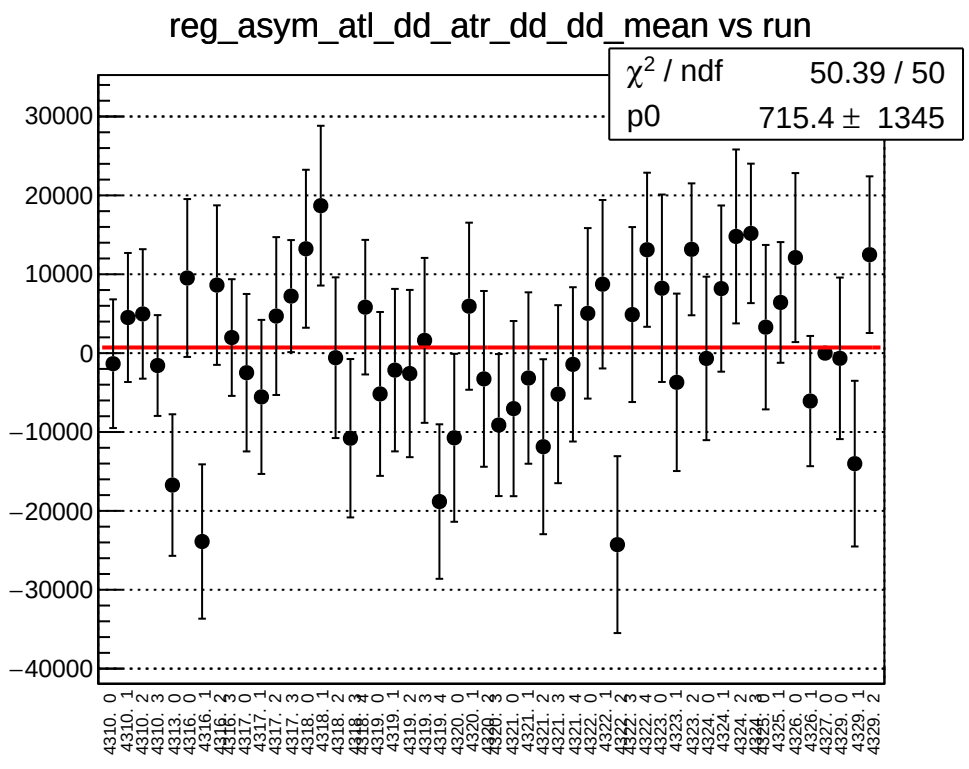

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

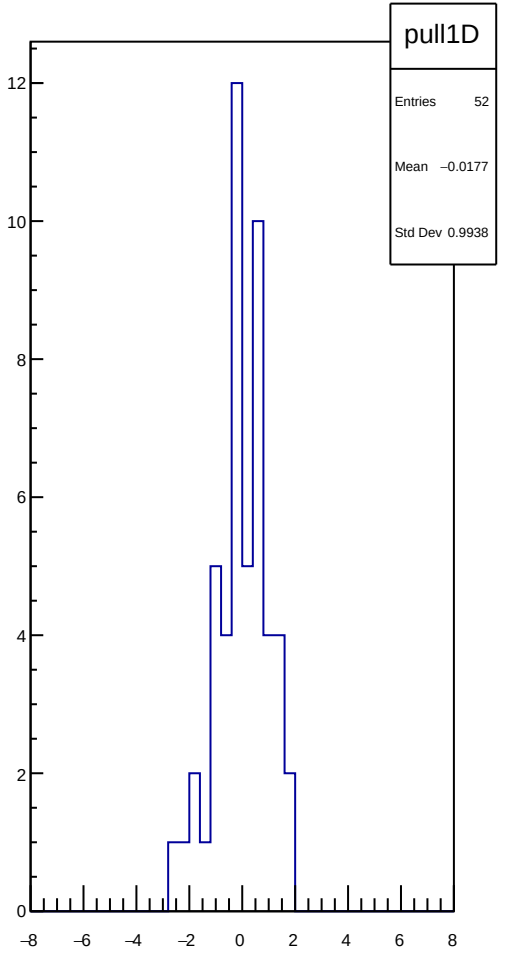

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

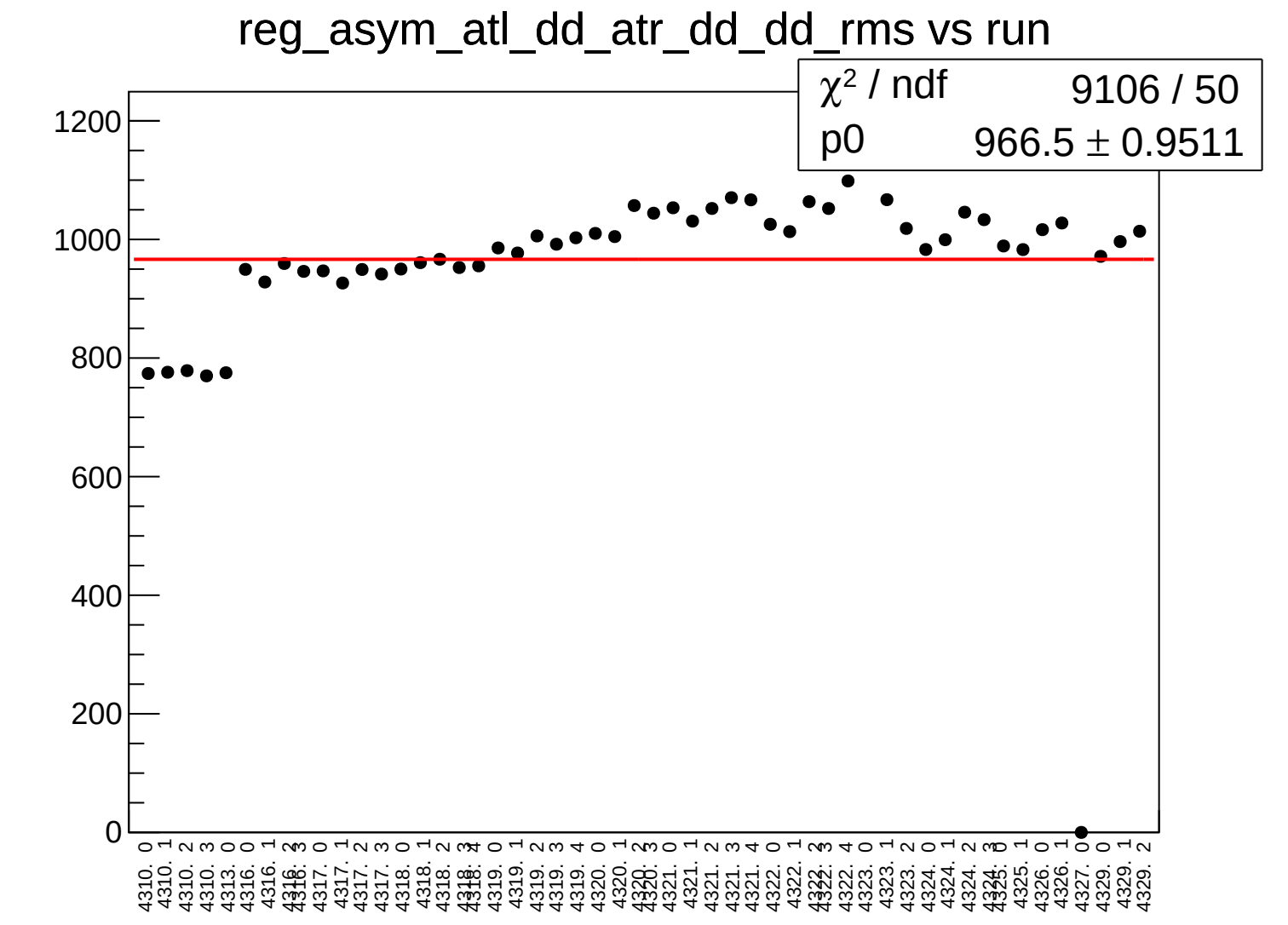

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 40.3 / 50
p0 −301.9 ± 1322
30000
20000
10000
0
−10000
−20000
−30000

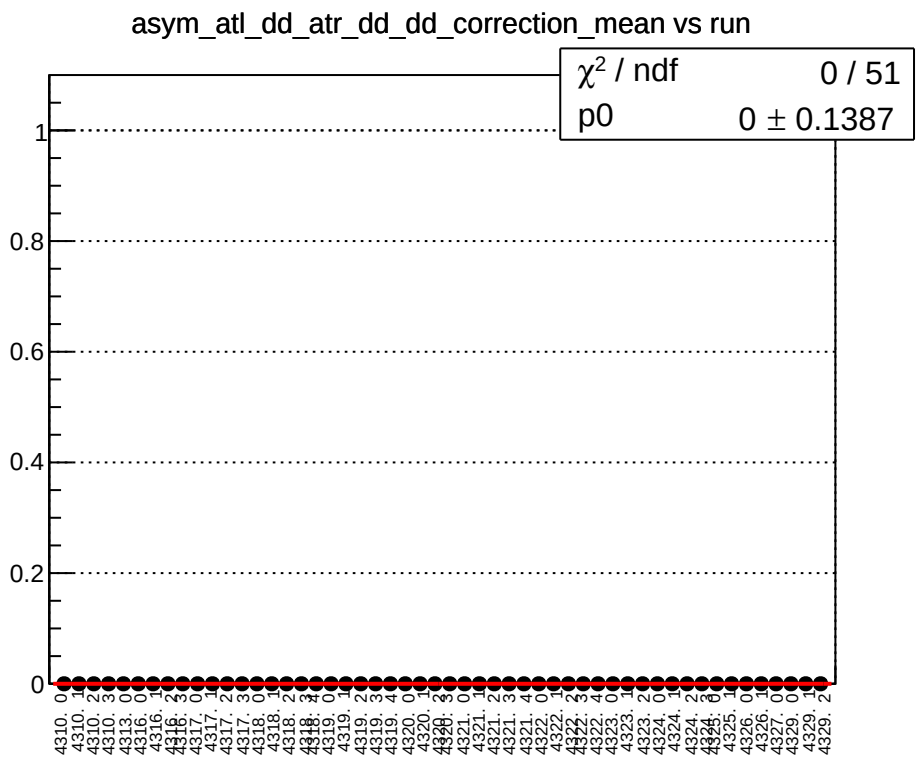

pull1D
Entries 52
Mean 0.02834
Std Dev 0.8885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

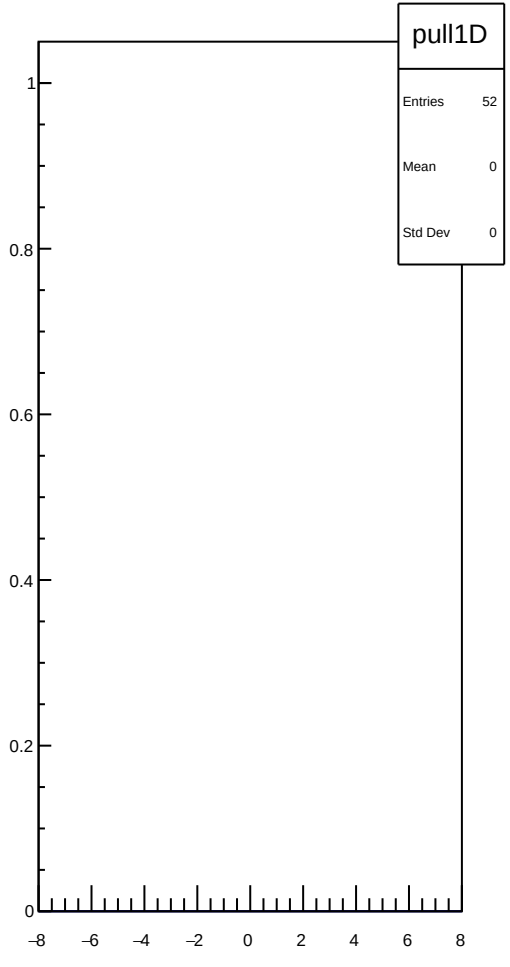

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3.19e+04 / 50
p0 939.1 ± 0.9345
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

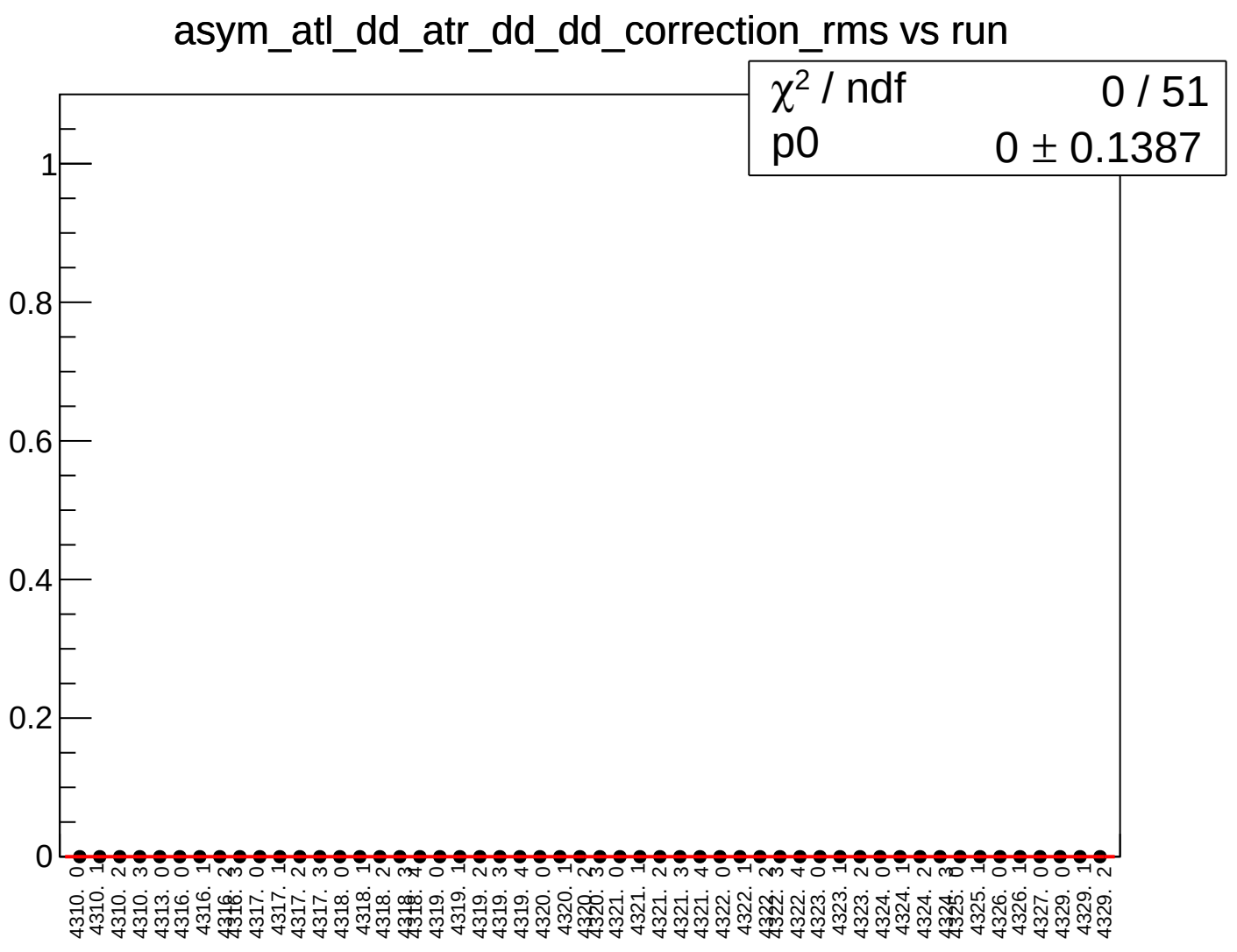

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 50.39 / 50
p0 715.4 ± 1345
30000
20000
10000
0
−10000
−20000
−30000
−40000

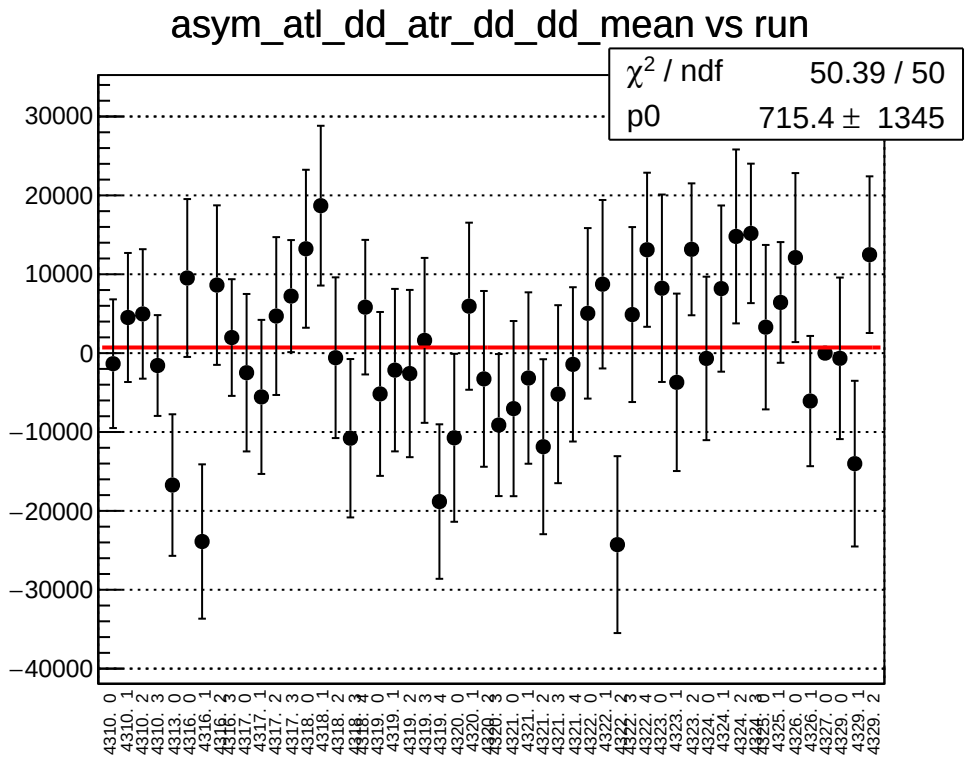

pull1D
Entries 52
Mean −0.0177
Std Dev 0.9938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

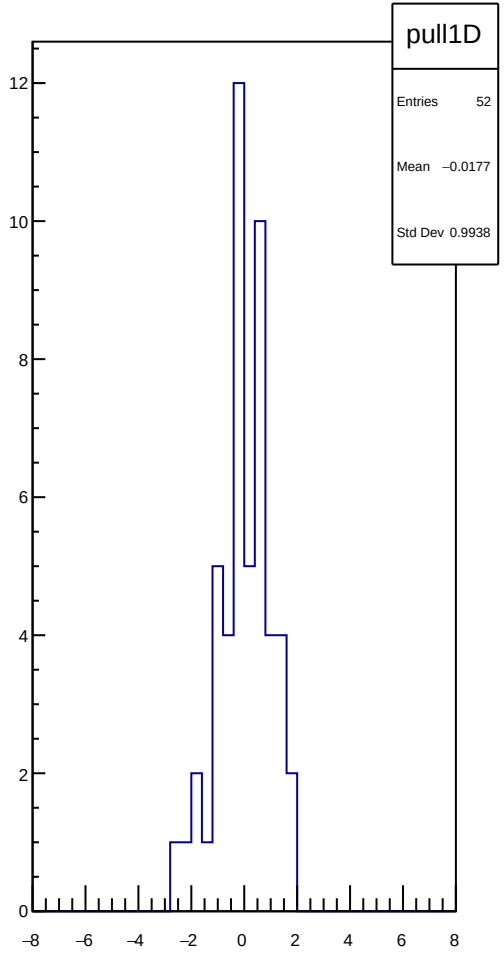

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 9106 / 50
p0 966.5 ± 0.9511
1200
1000
800
600
400
200
0

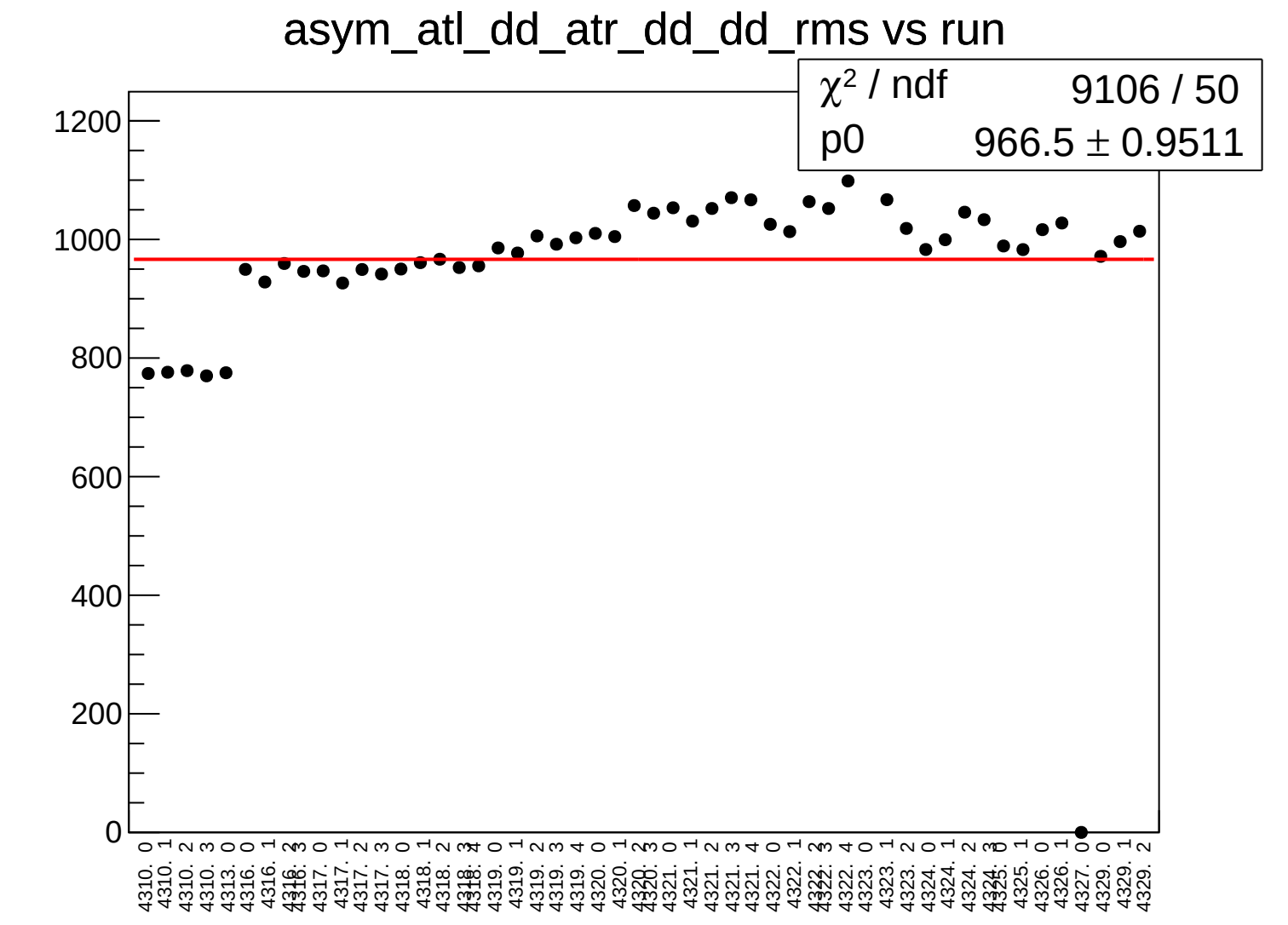

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

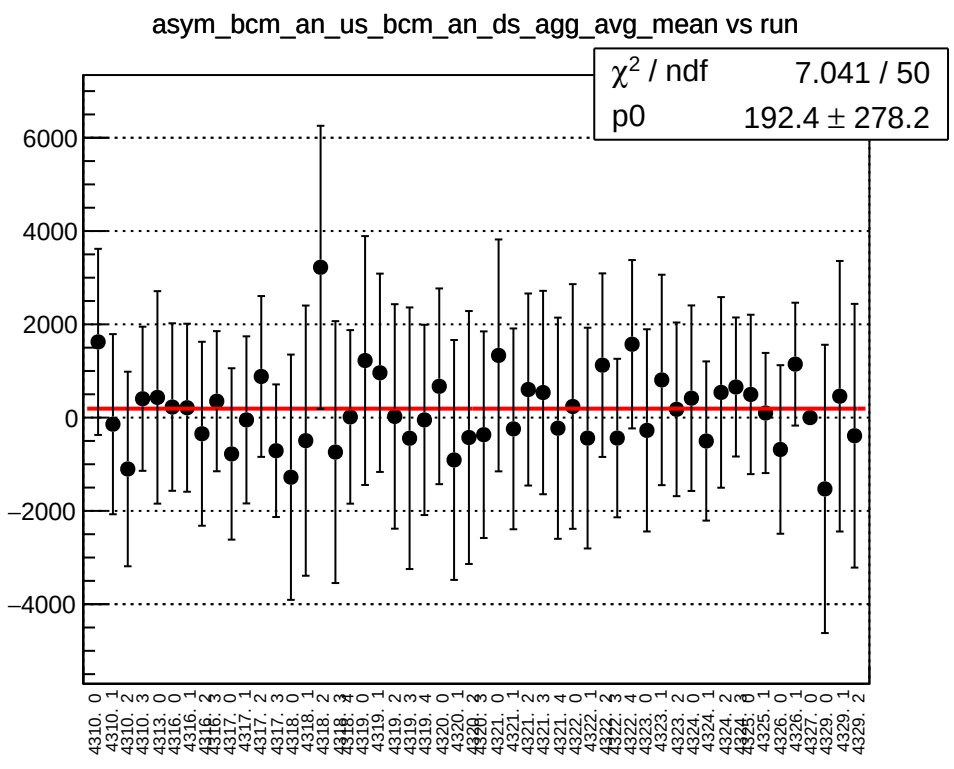

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 50.39 / 50
p0 715.4 ± 1345
30000
20000
10000
0
−10000
−20000
−30000
−40000


pull1D
Entries 52
Mean −0.0177
Std Dev 0.9938
12
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 9106 / 50
p0 966.5 ± 0.9511
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.041 / 50
p0 192.4 ± 278.2
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
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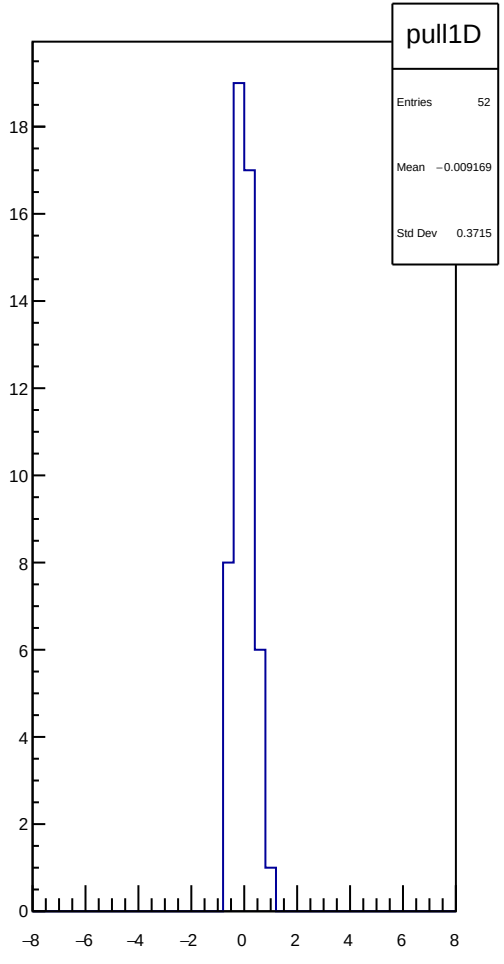
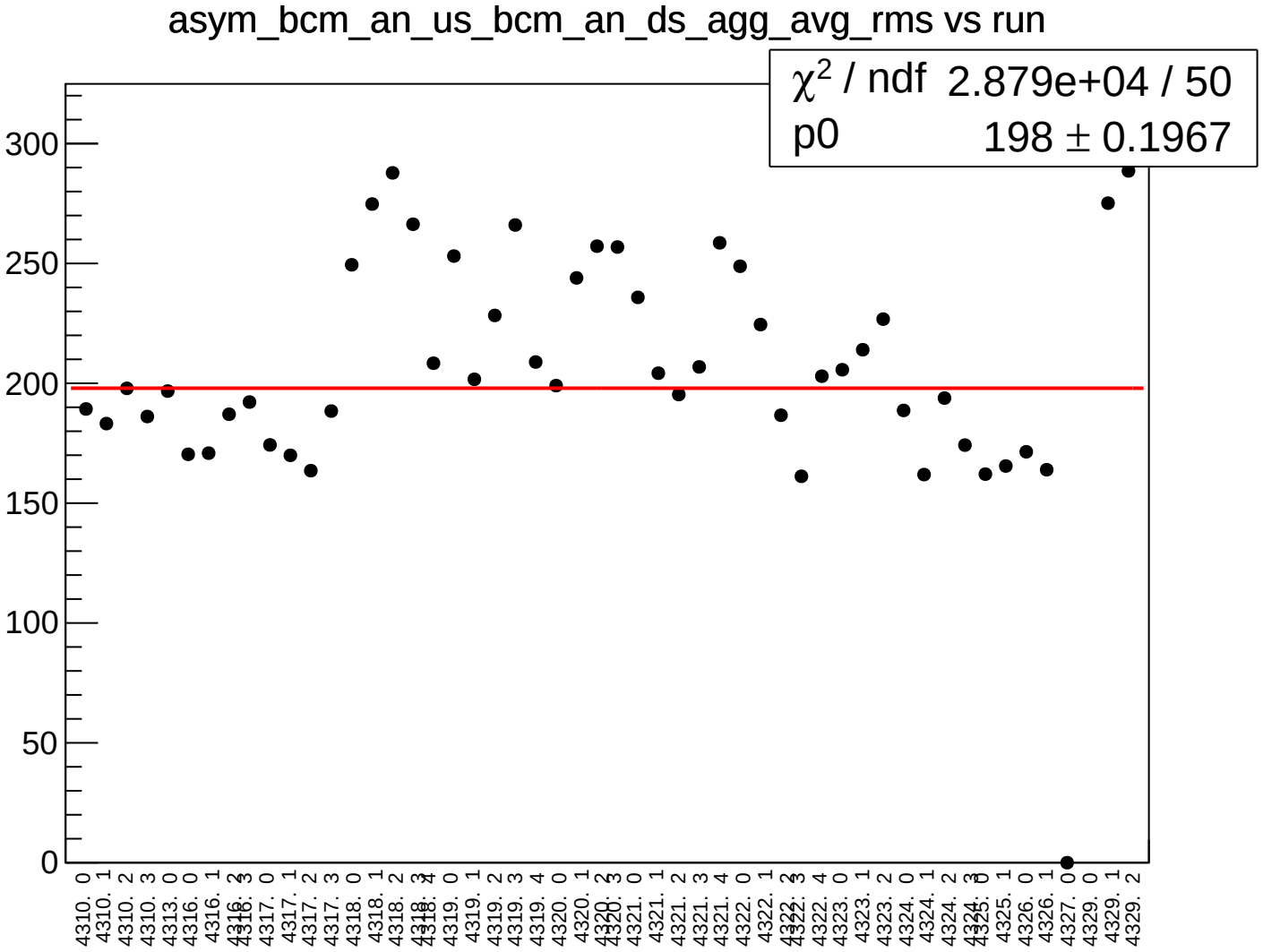
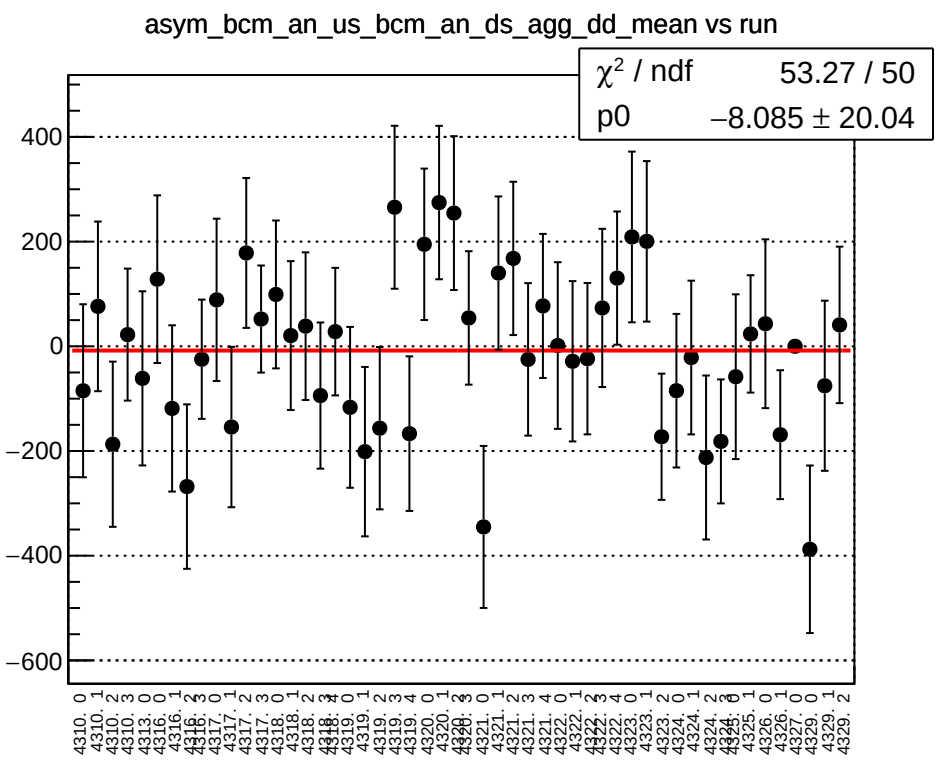
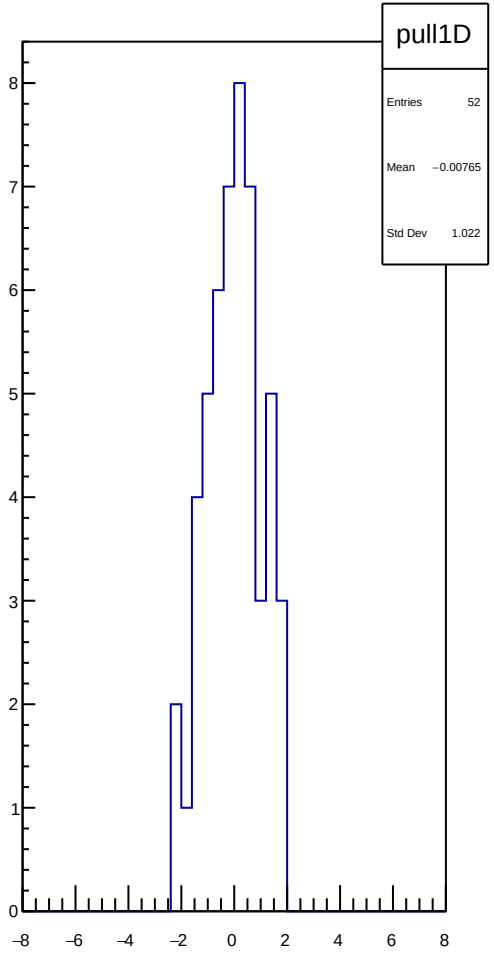
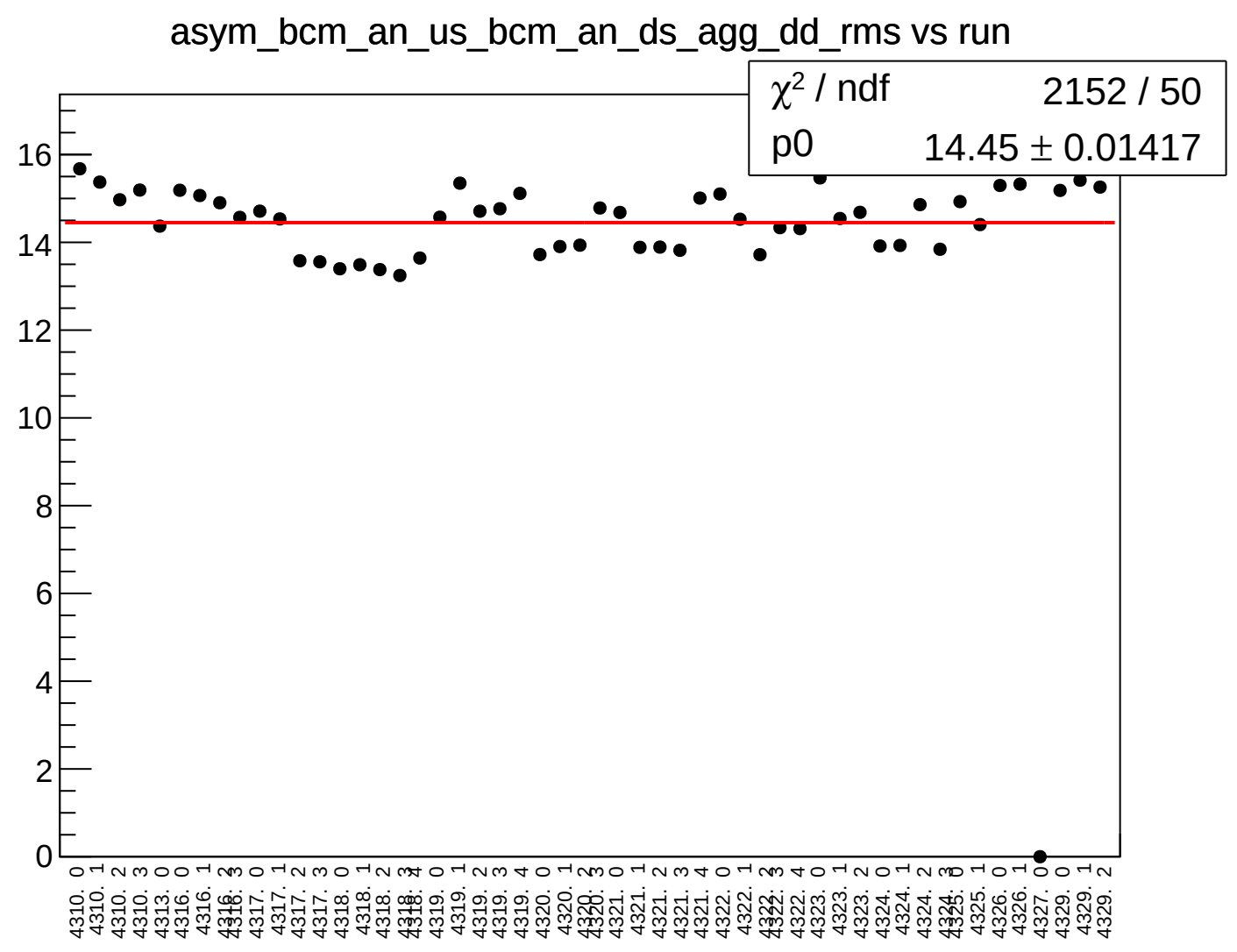
4326. 1
4327. 0
4329. 1
4329. 2

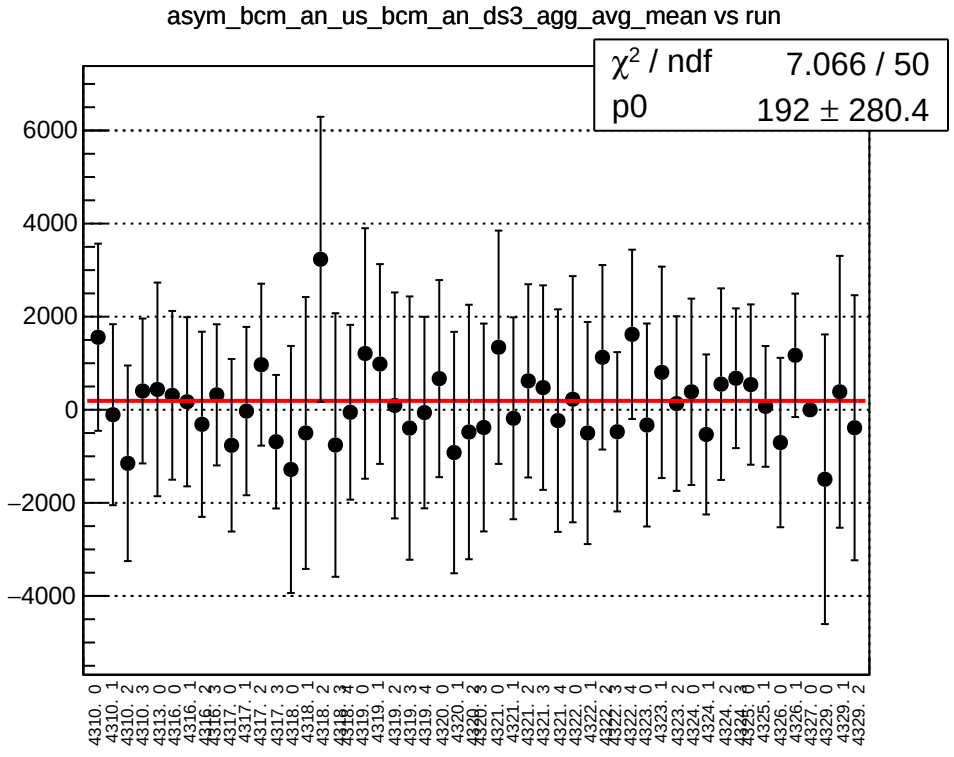

pull1D
Entries 52
Mean −0.009169
Std Dev 0.3715
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

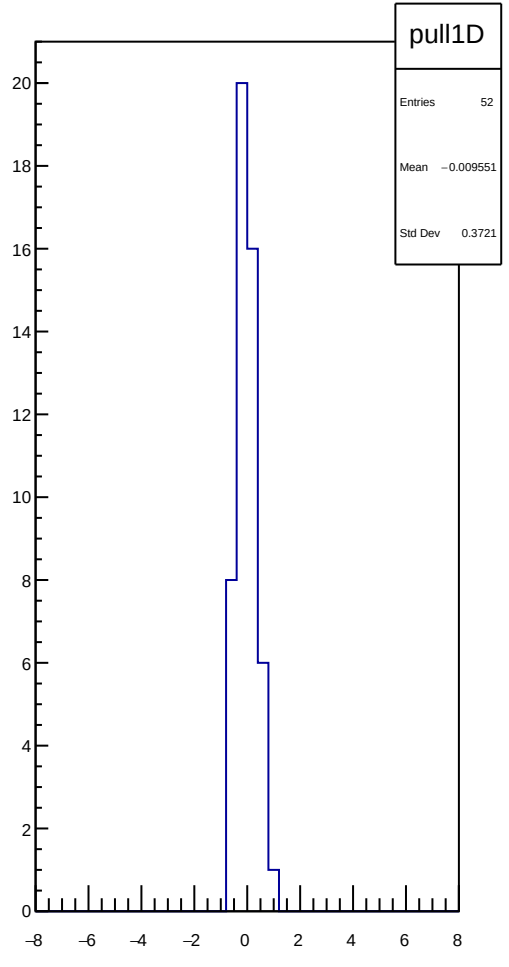

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.879e+04 / 50
p0 198 ± 0.1967
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

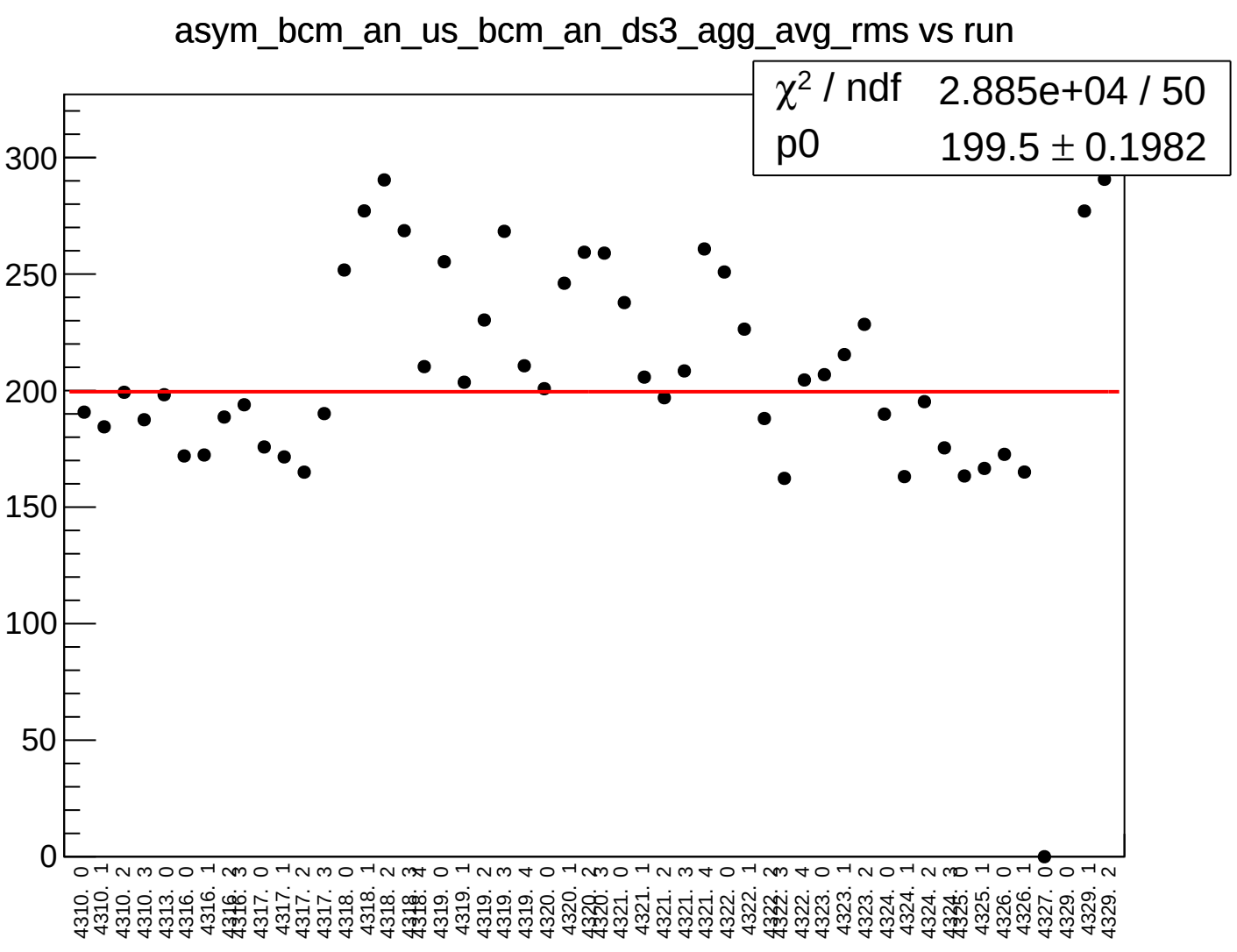

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 53.27 / 50
p0 −8.085 ± 20.04
400
200
0
−200
−400
−600

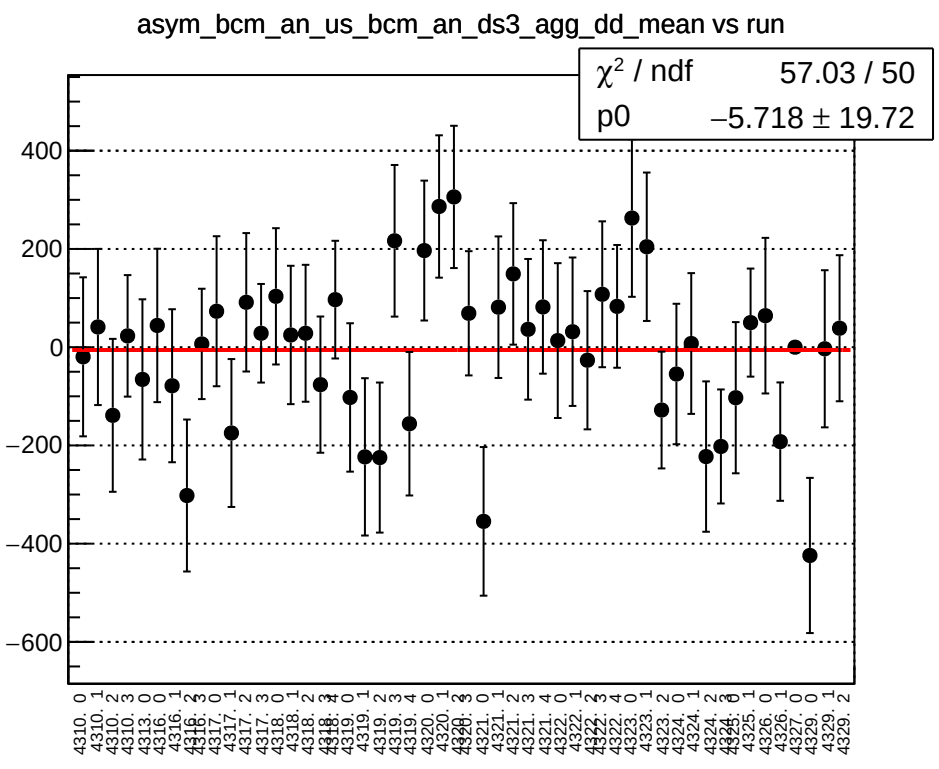

pull1D
Entries 52
Mean −0.00765
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

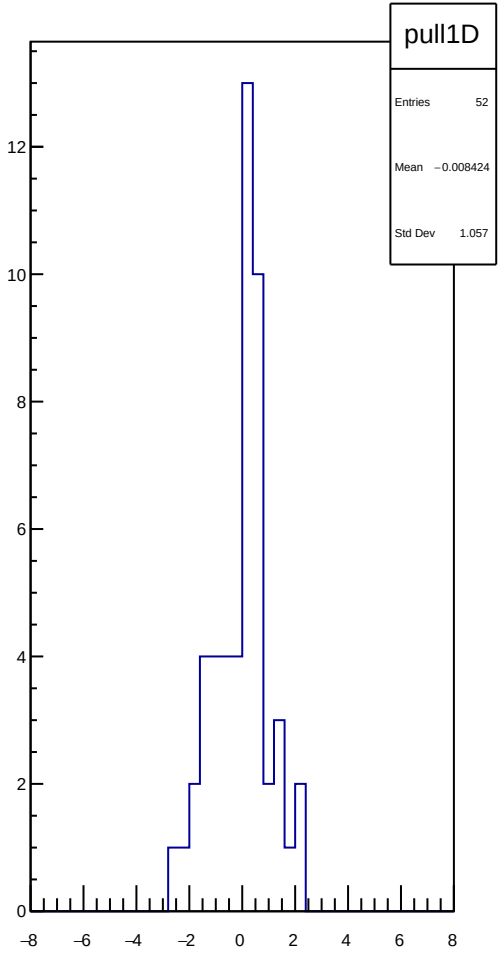

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2152 / 50
p0 14.45 ± 0.01417
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

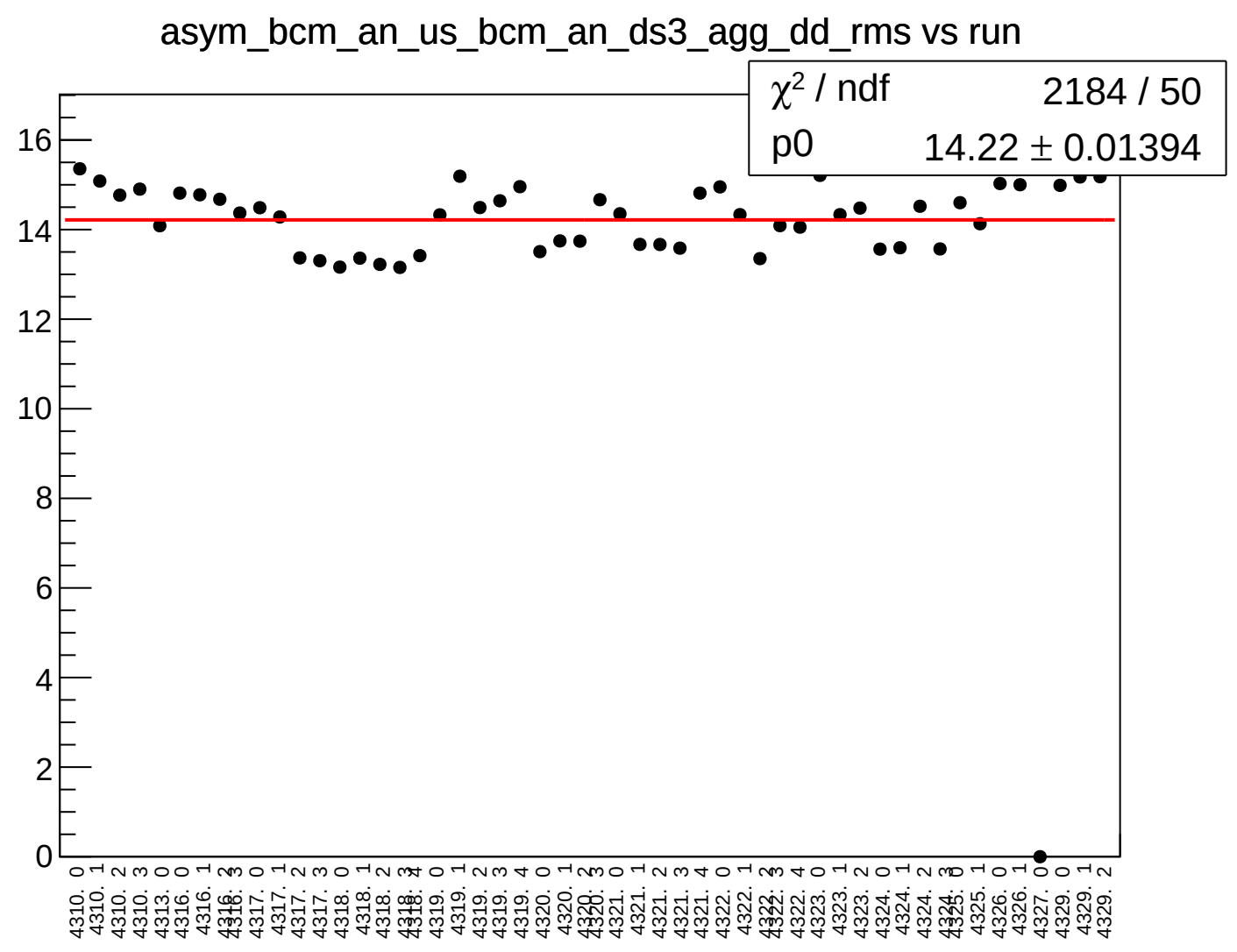

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.066 / 50
p0 192 ± 280.4
6000
4000
2000
0
−2000
−4000

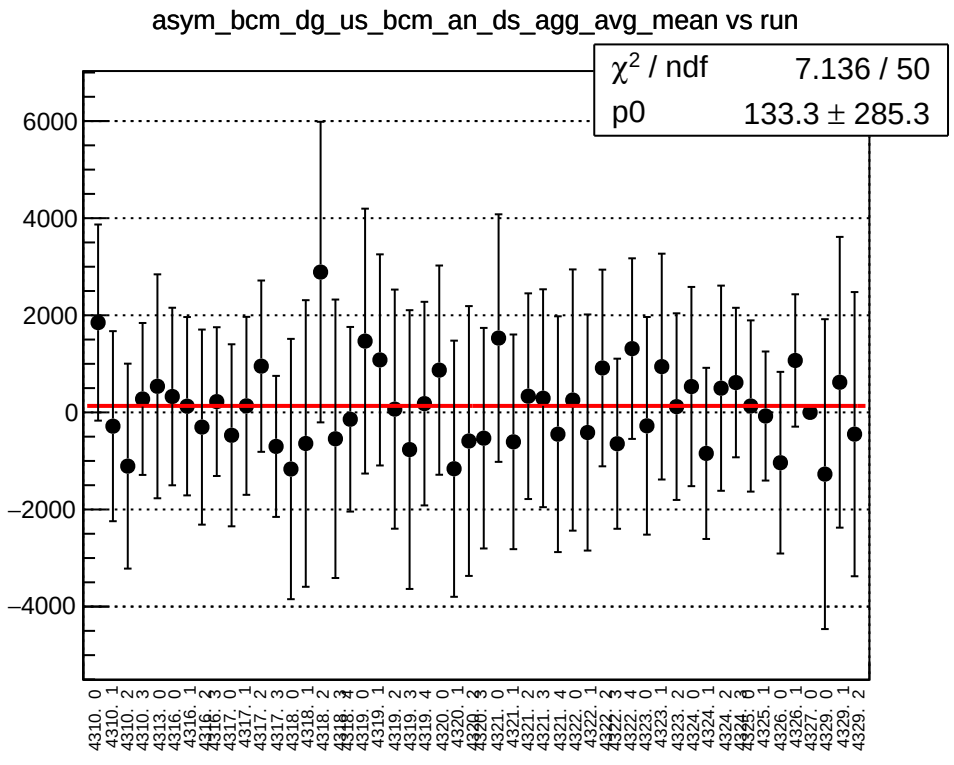

pull1D
Entries 52
Mean −0.009551
Std Dev 0.3721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

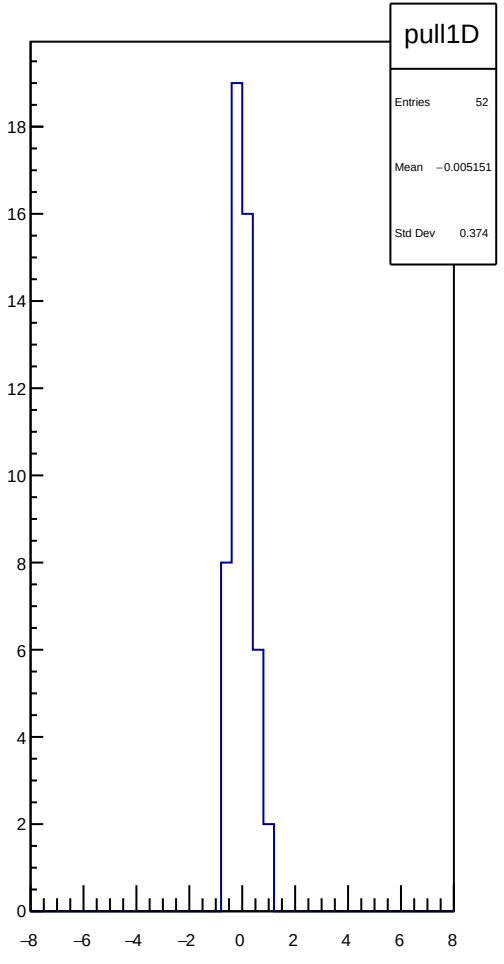

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.885e+04 / 50
p0 199.5 ± 0.1982
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

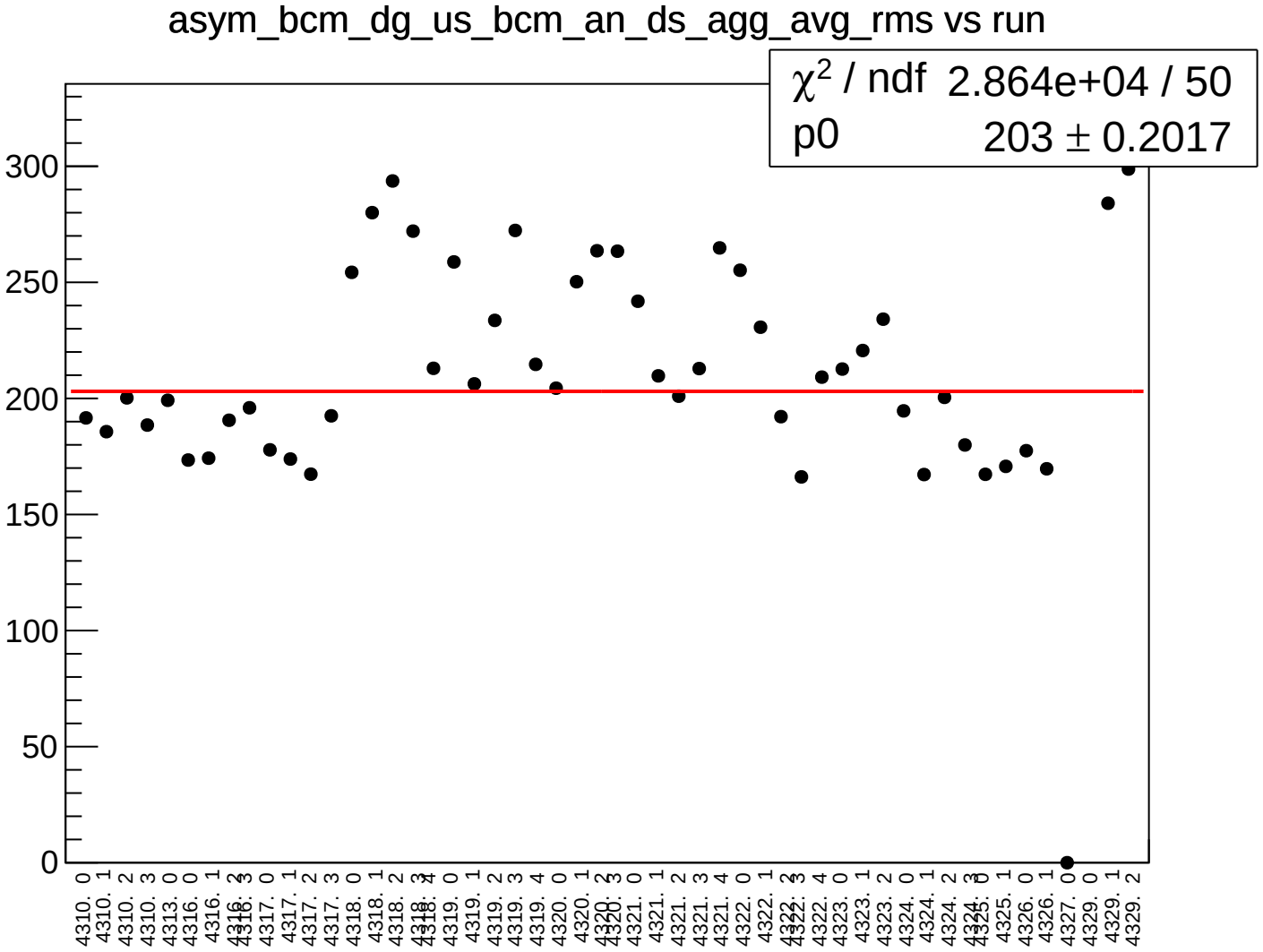

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 57.03 / 50
p0 −5.718 ± 19.72
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

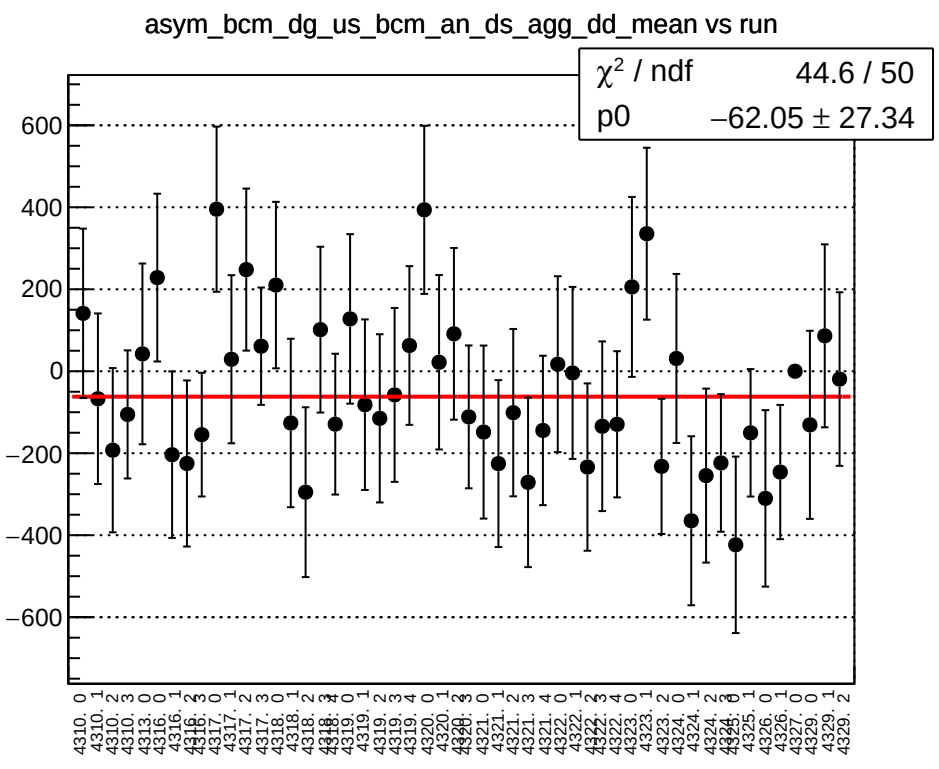

pull1D
Entries 52
Mean −0.008424
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

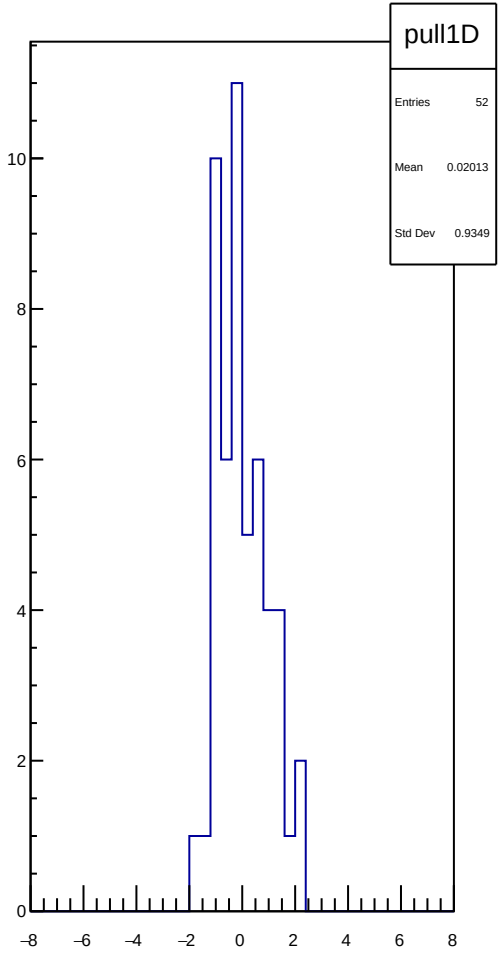

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2184 / 50
p0 14.22 ± 0.01394
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

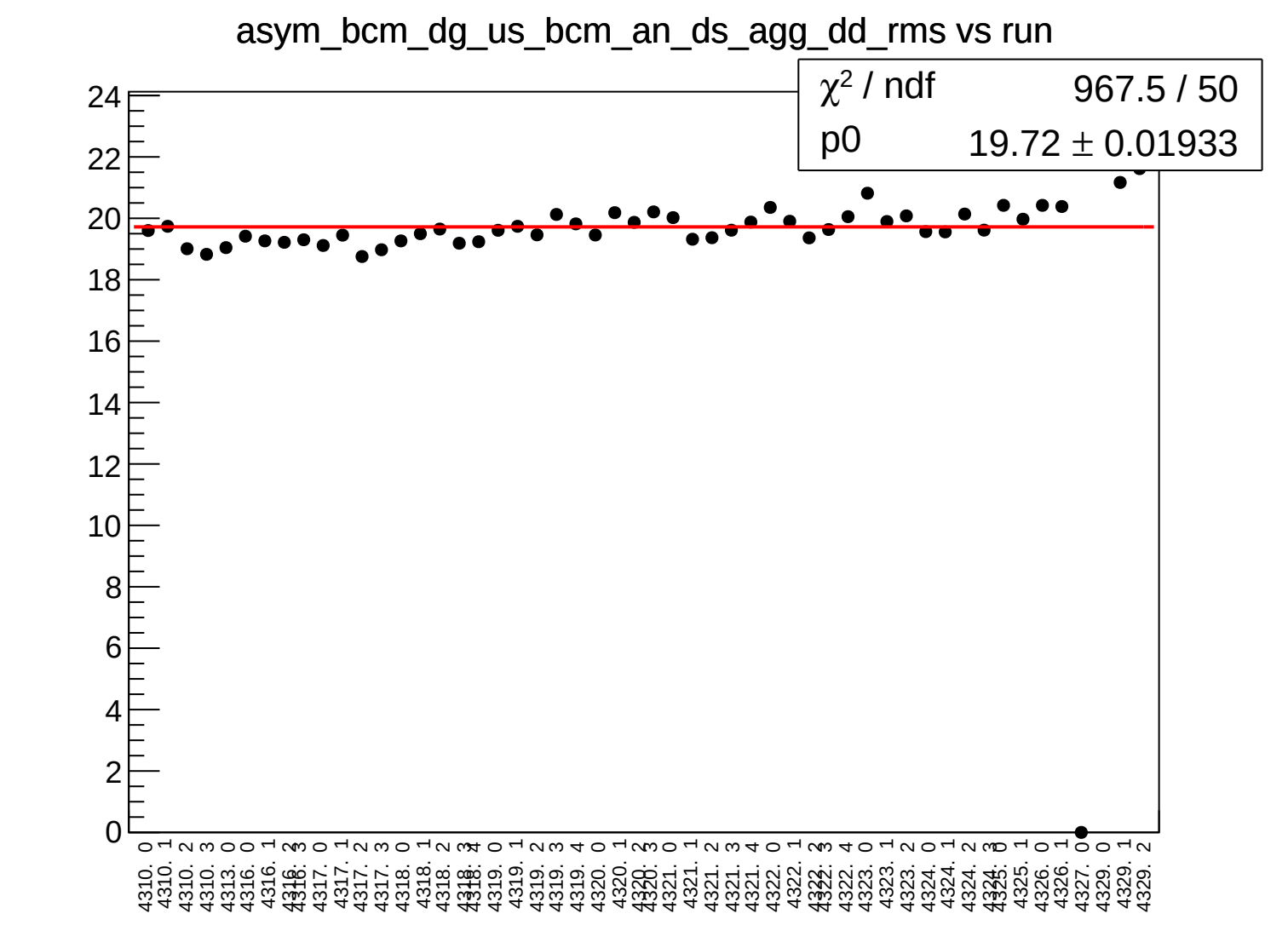

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.136 / 50
p0 133.3 ± 285.3
6000
4000
2000
0
−2000
−4000

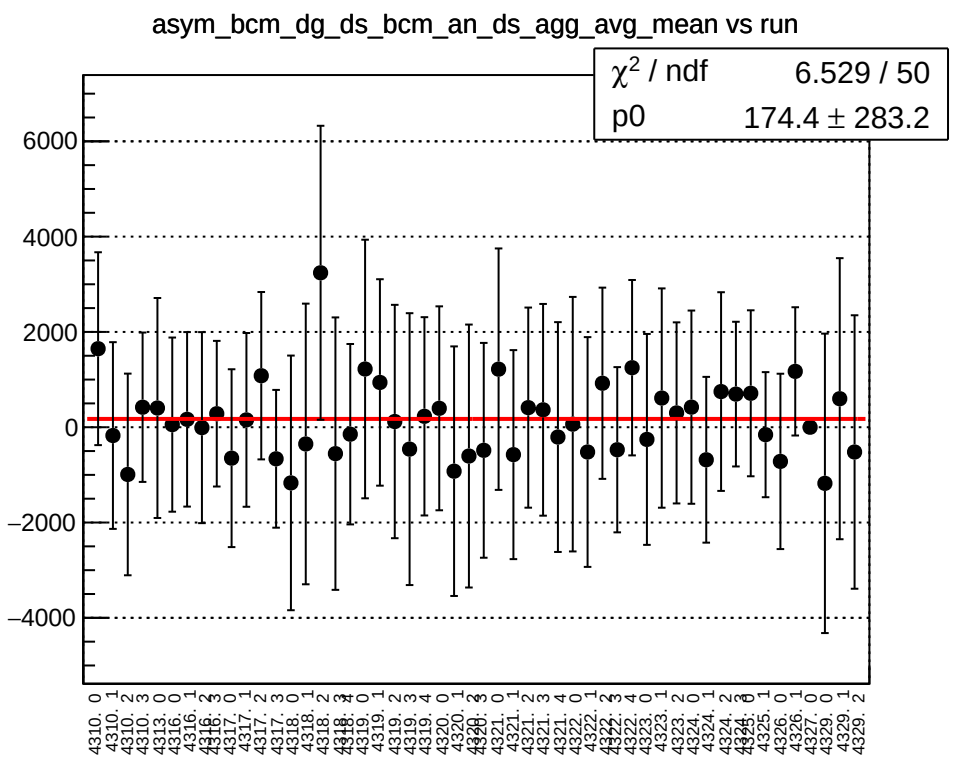

pull1D
Entries 52
Mean −0.005151
Std Dev 0.374
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

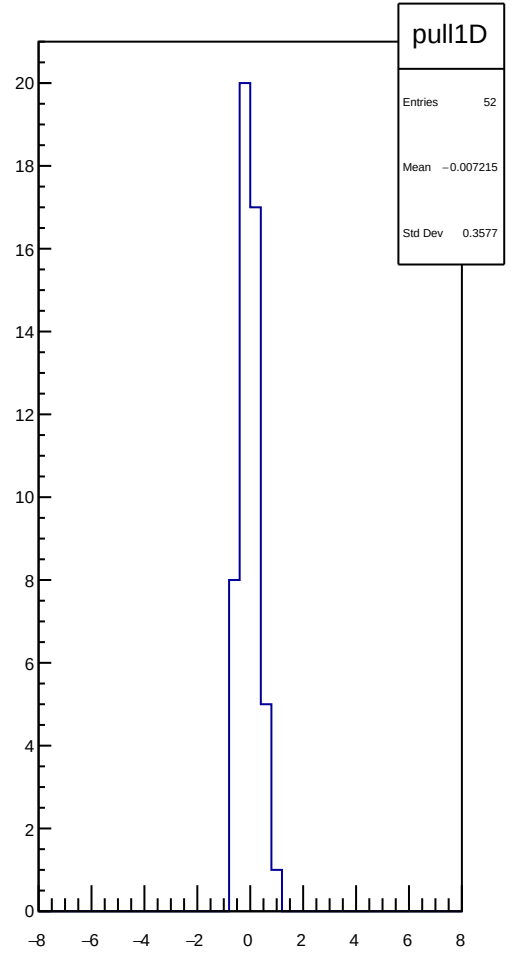

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.864e+04 / 50
p0 203 ± 0.2017
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

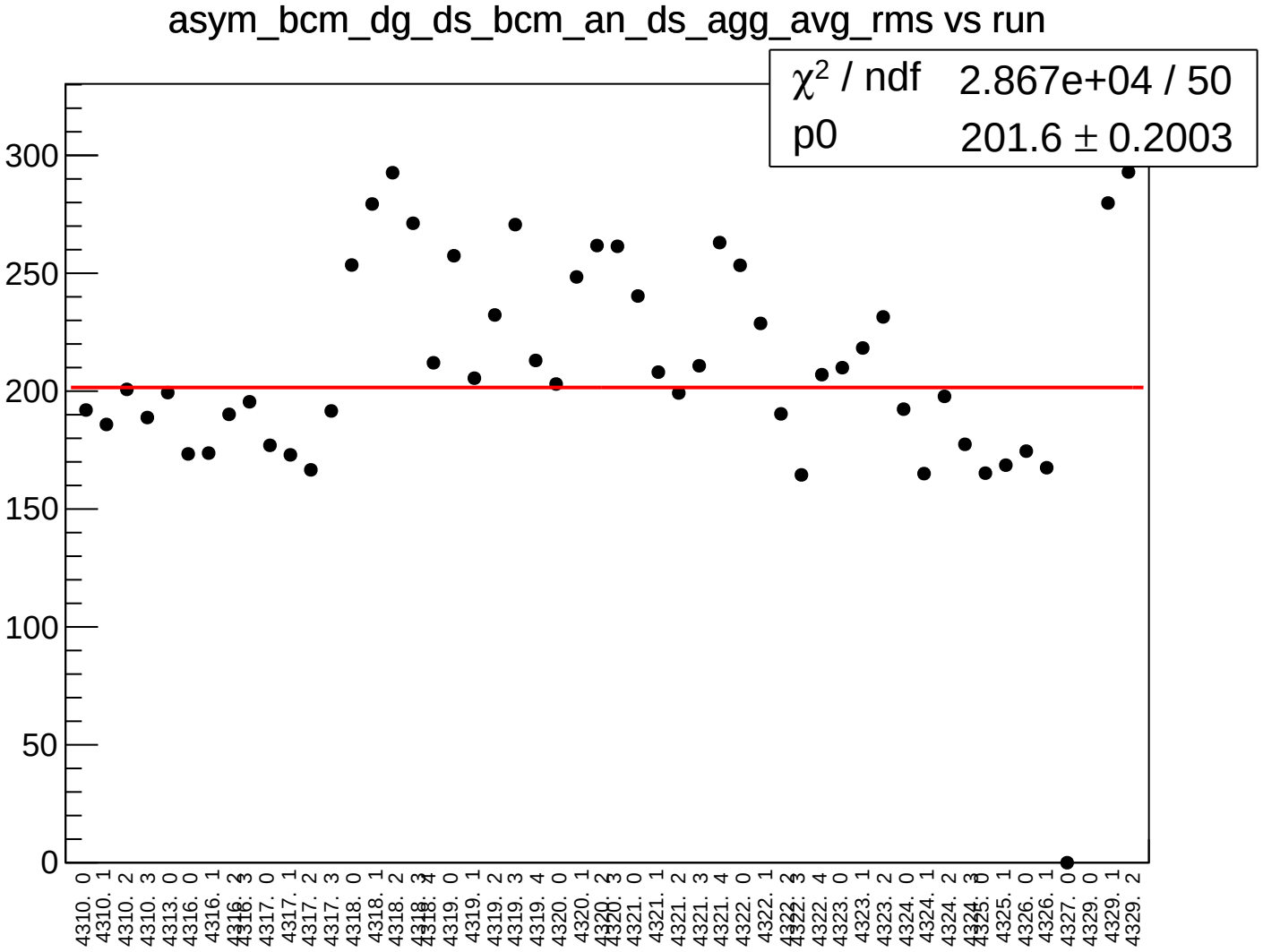

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.6 / 50
p0 −62.05 ± 27.34
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

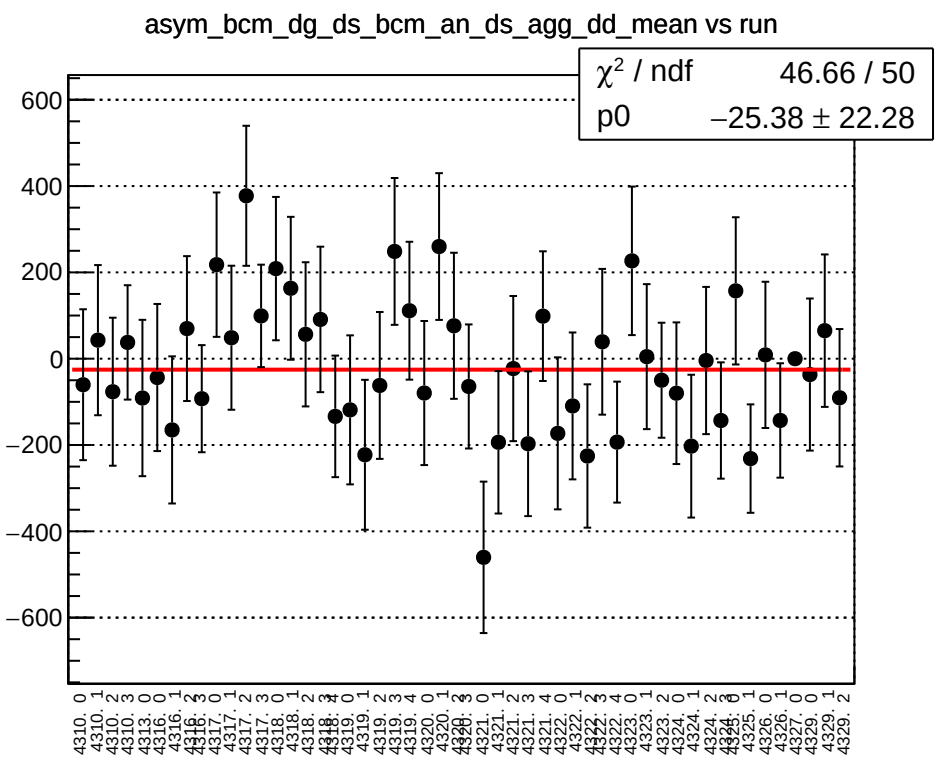

pull1D
Entries 52
Mean 0.02013
Std Dev 0.9349
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

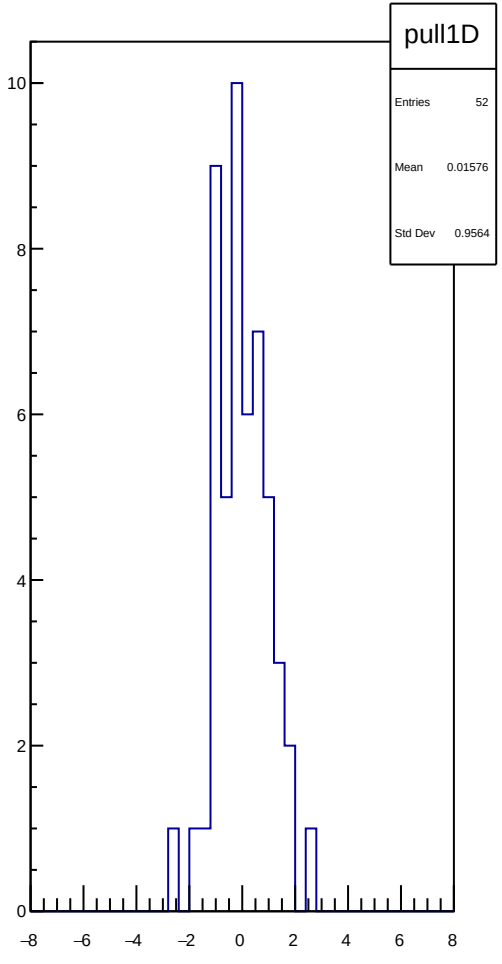

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 967.5 / 50
p0 19.72 ± 0.01933
24
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

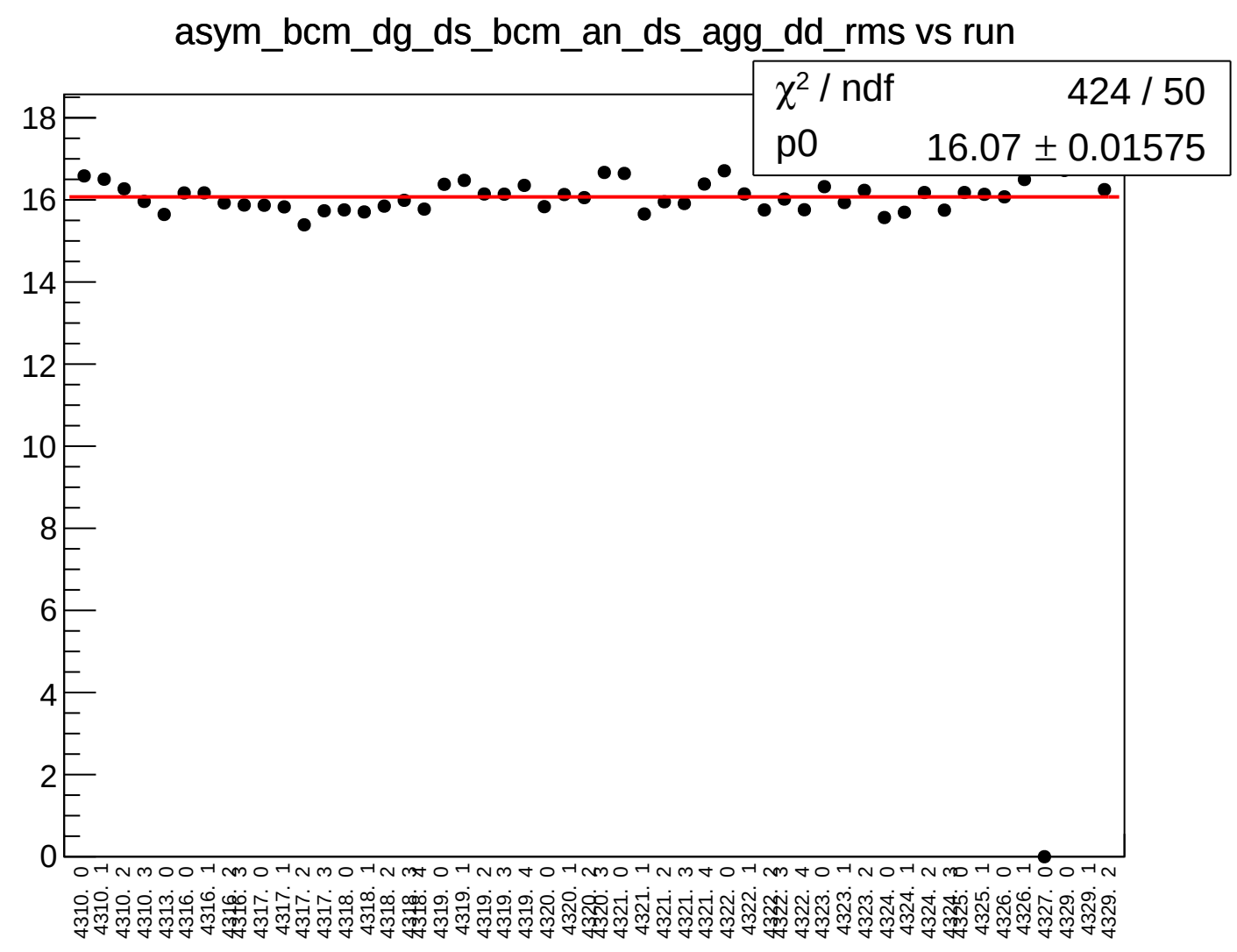

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.529 / 50
p0 174.4 ± 283.2
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

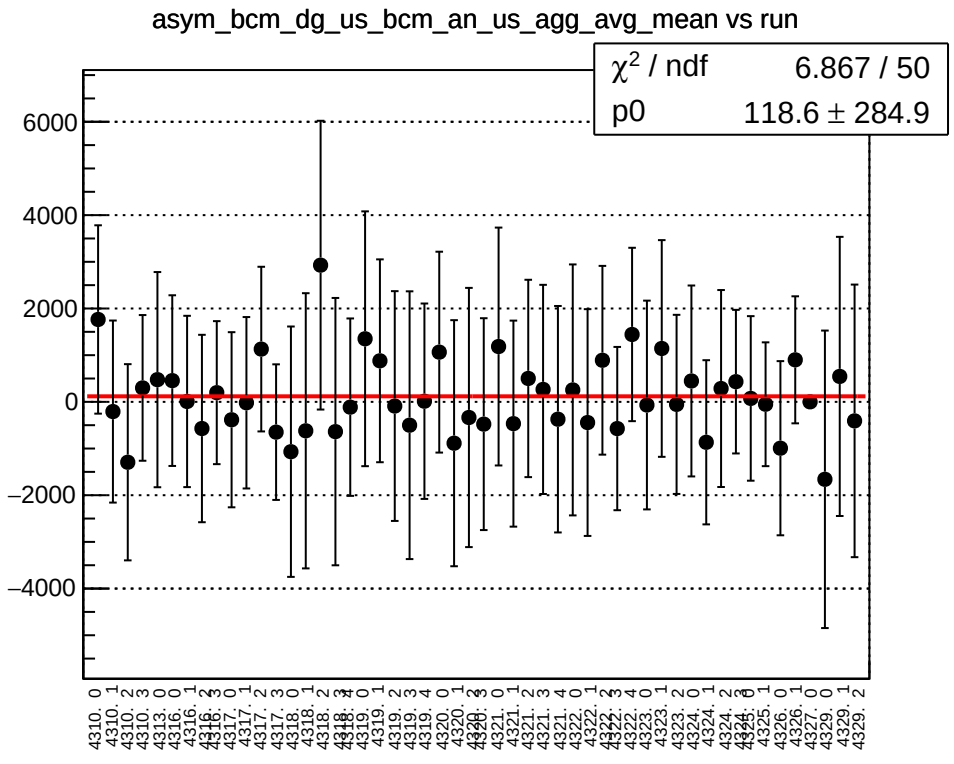

pull1D
Entries 52
Mean −0.007215
Std Dev 0.3577
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

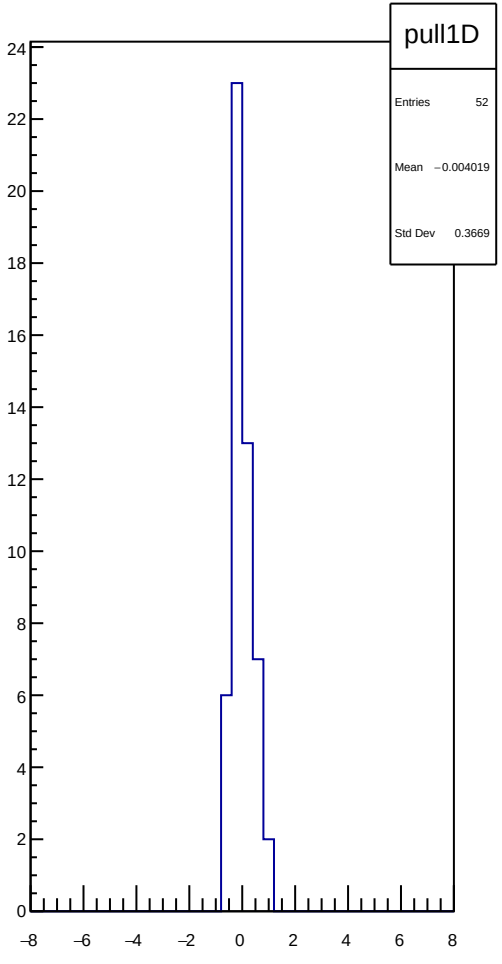

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.867e+04 / 50
p0 201.6 ± 0.2003
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

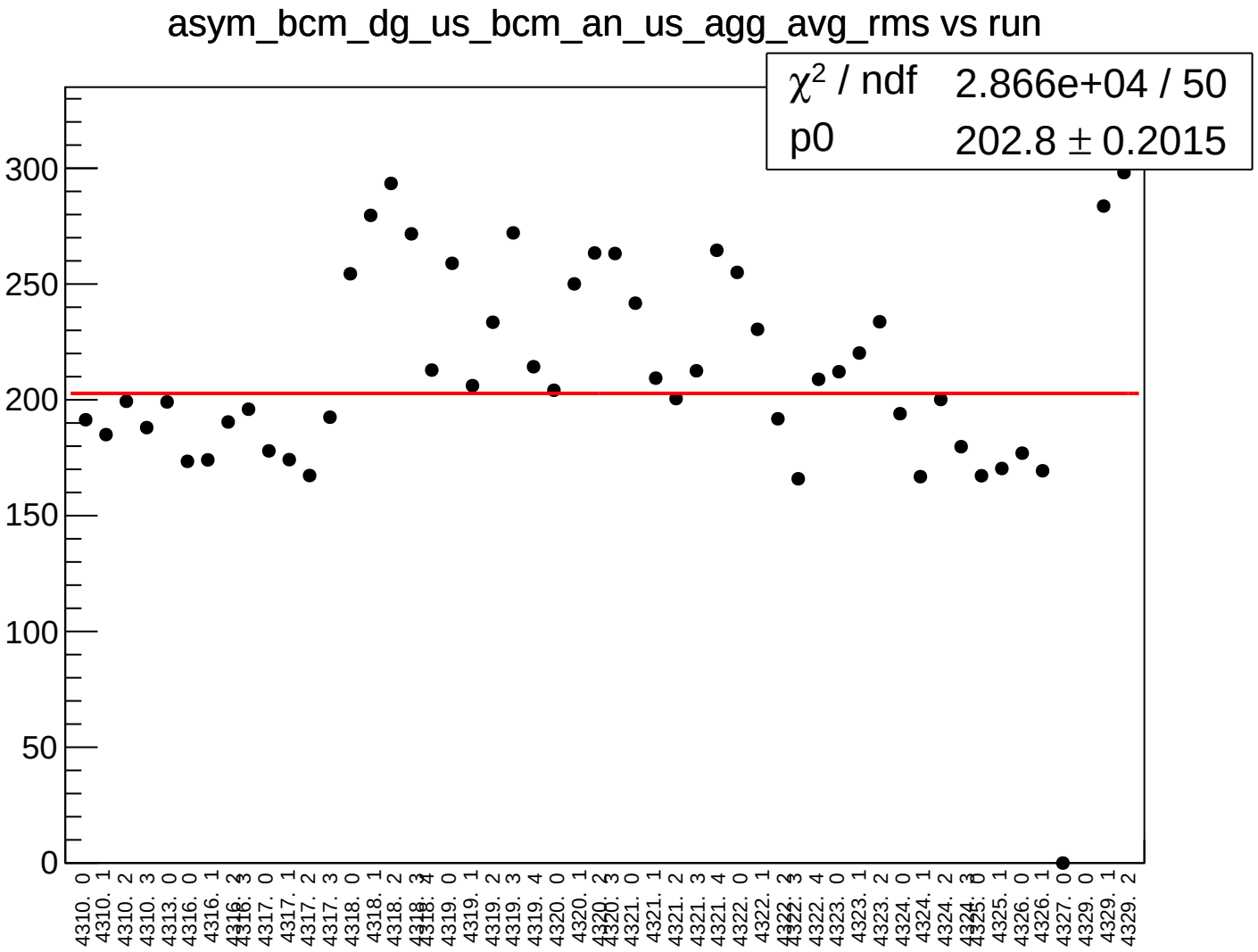

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.66 / 50
p0 −25.38 ± 22.28
600
400
200
0
−200
−400
−600

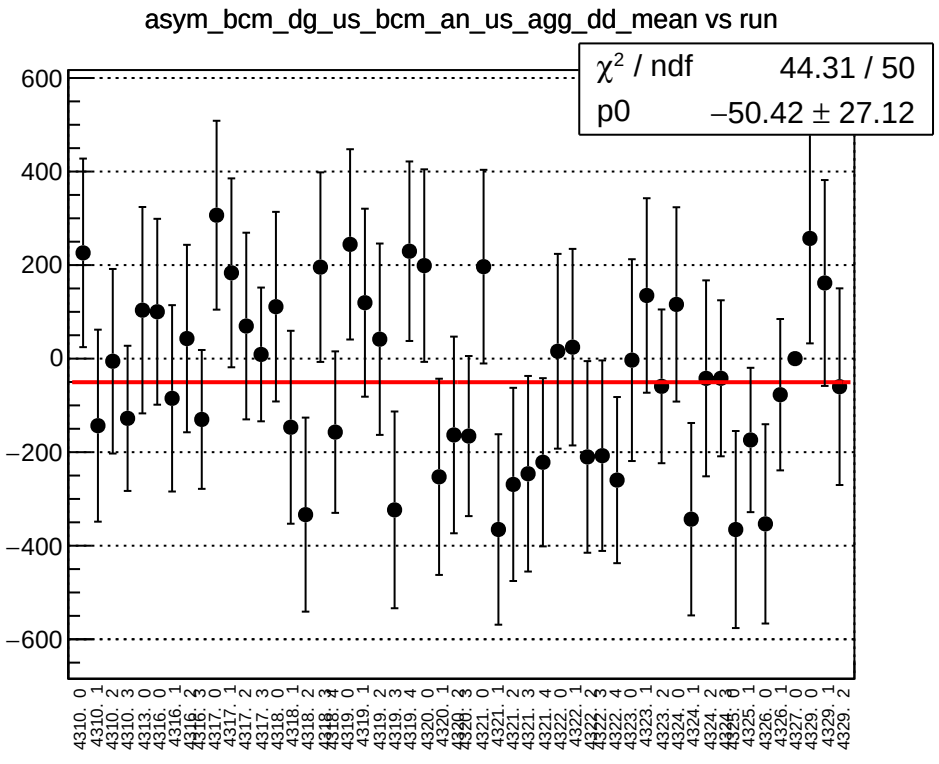

pull1D
Entries 52
Mean 0.01576
Std Dev 0.9564
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

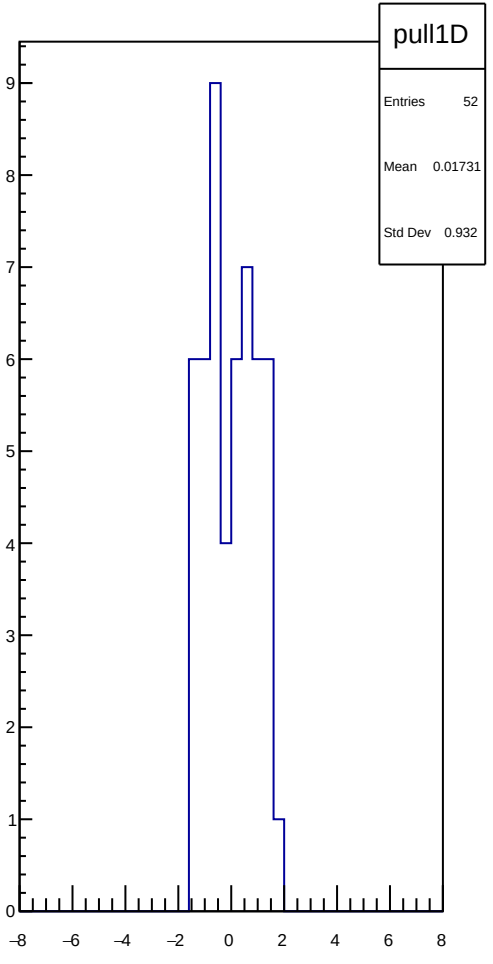

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 424 / 50
p0 16.07 ± 0.01575
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

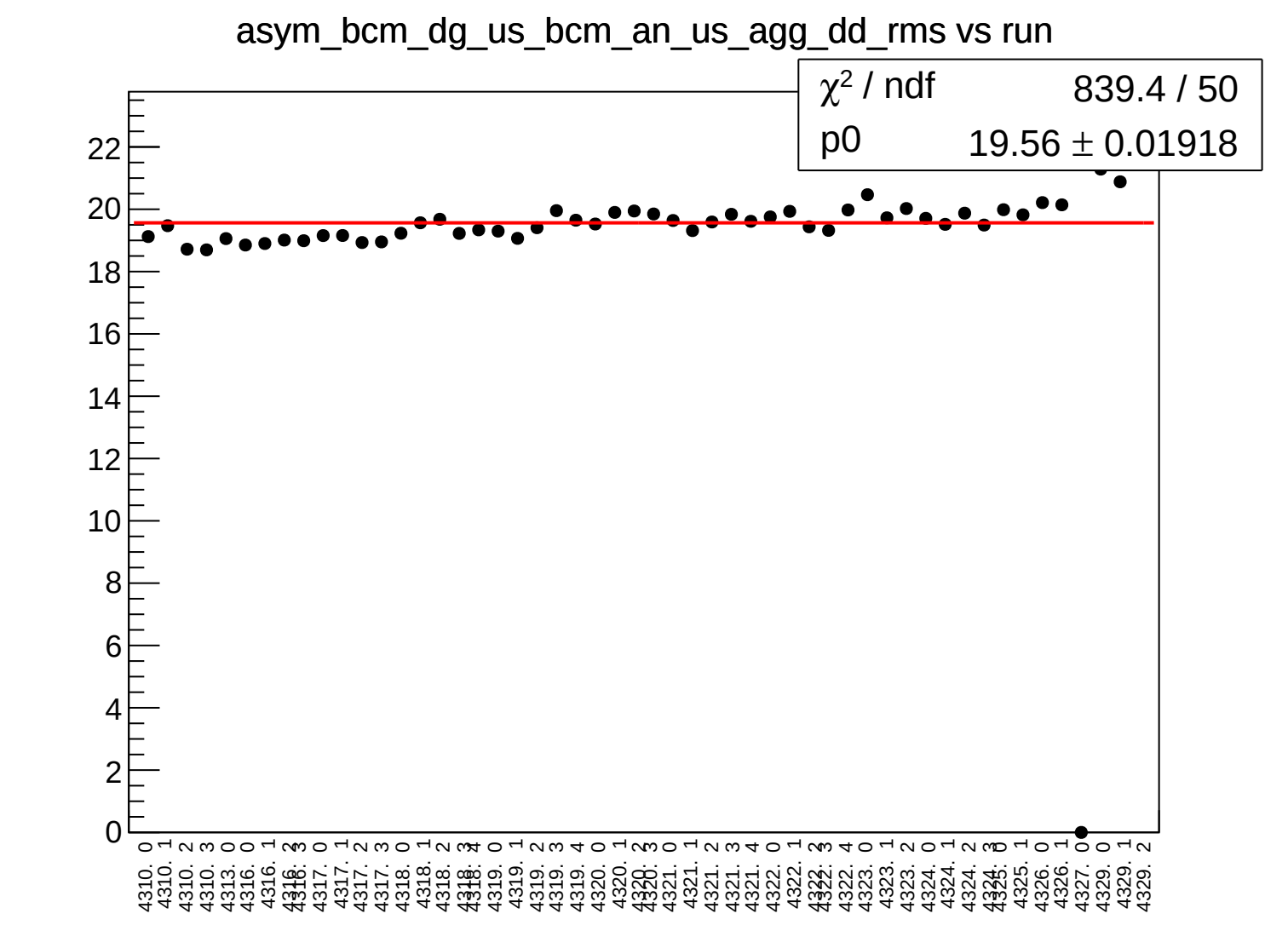

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.867 / 50
p0 118.6 ± 284.9
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

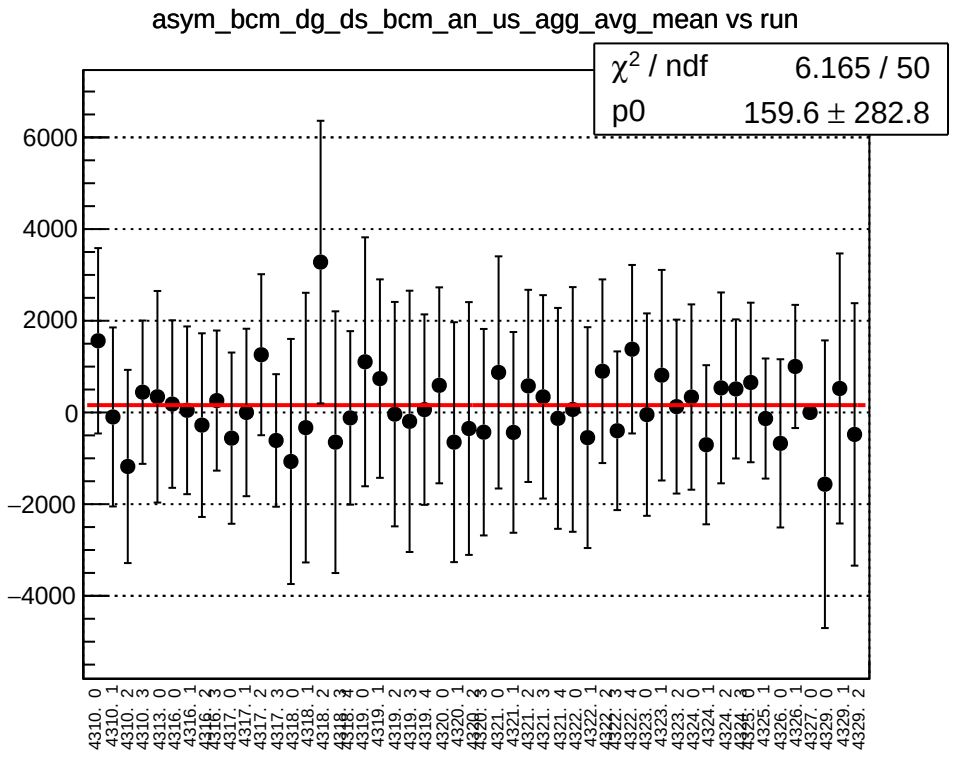

pull1D
Entries 52
Mean −0.004019
Std Dev 0.3669
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

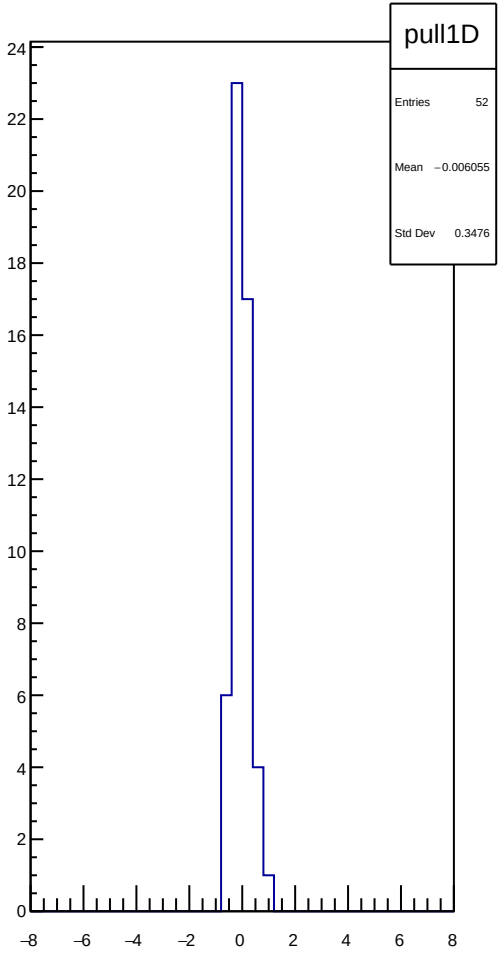

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.866e+04 / 50
p0 202.8 ± 0.2015
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

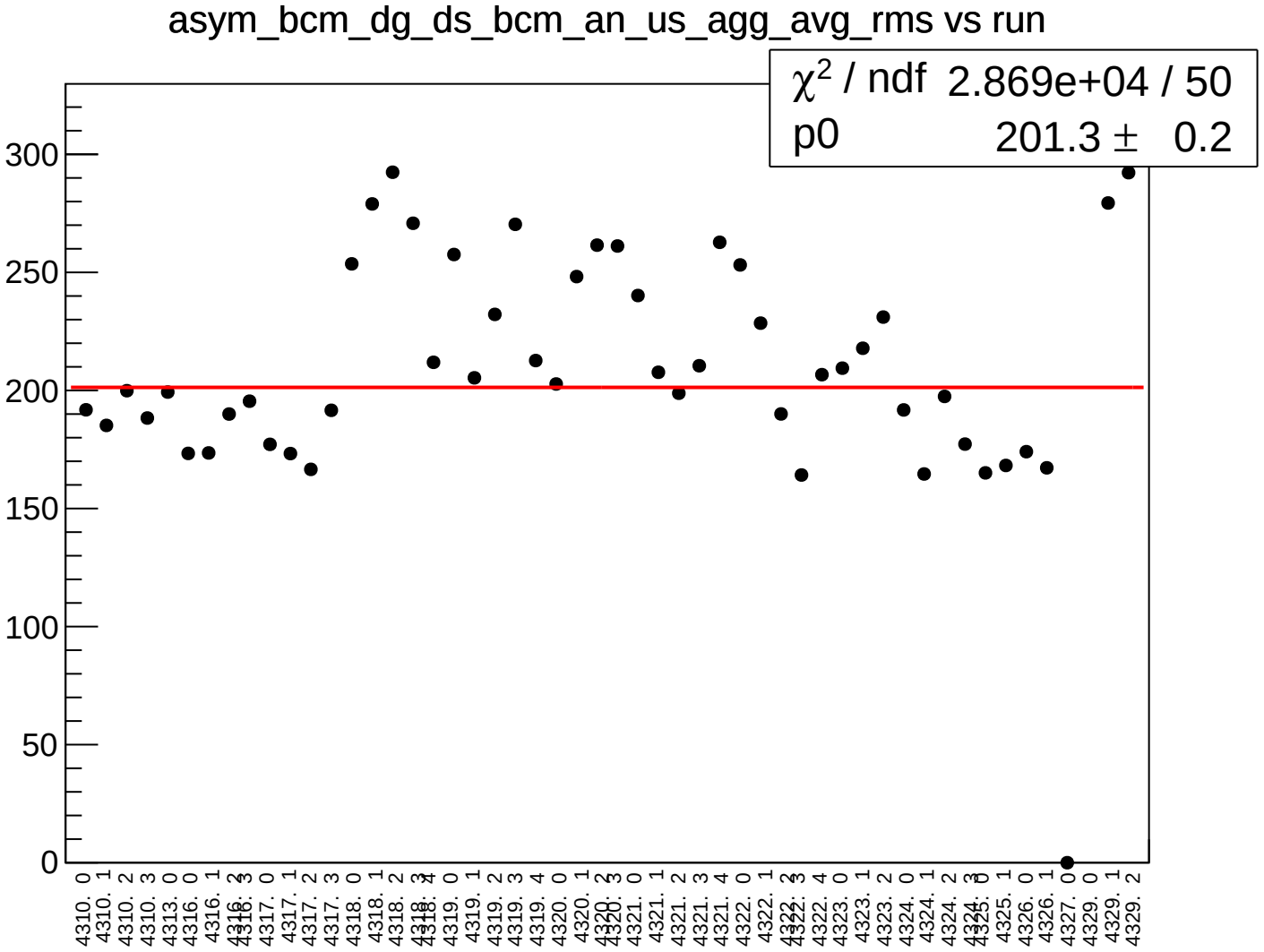

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 44.31 / 50
p0 −50.42 ± 27.12
600
400
200
0
−200
−400
−600

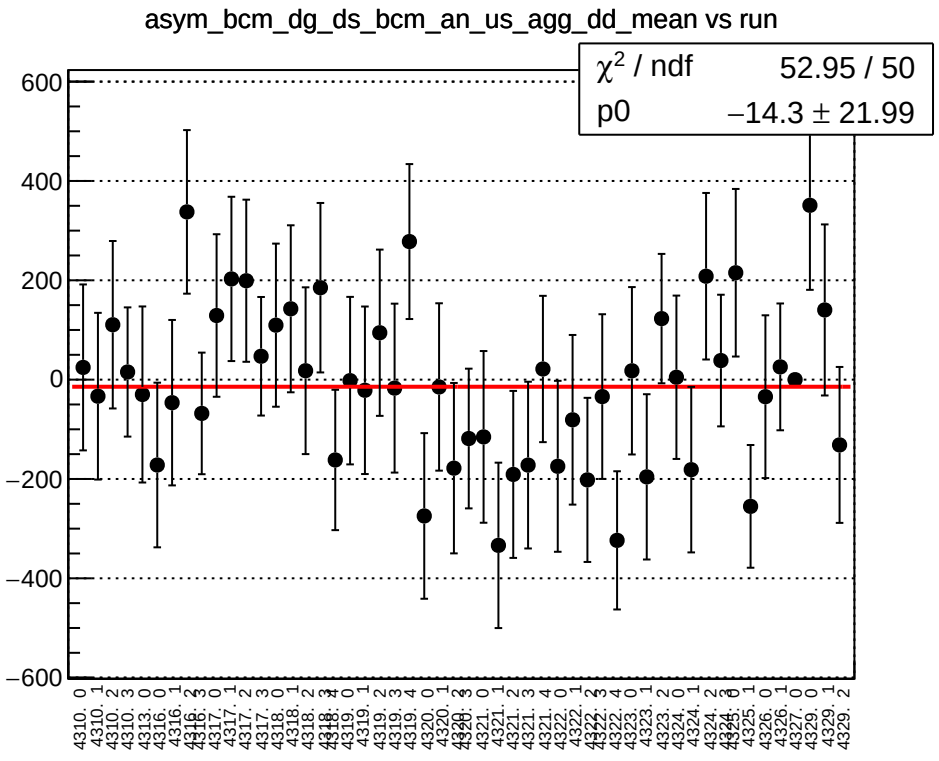

pull1D
Entries 52
Mean 0.01731
Std Dev 0.932
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

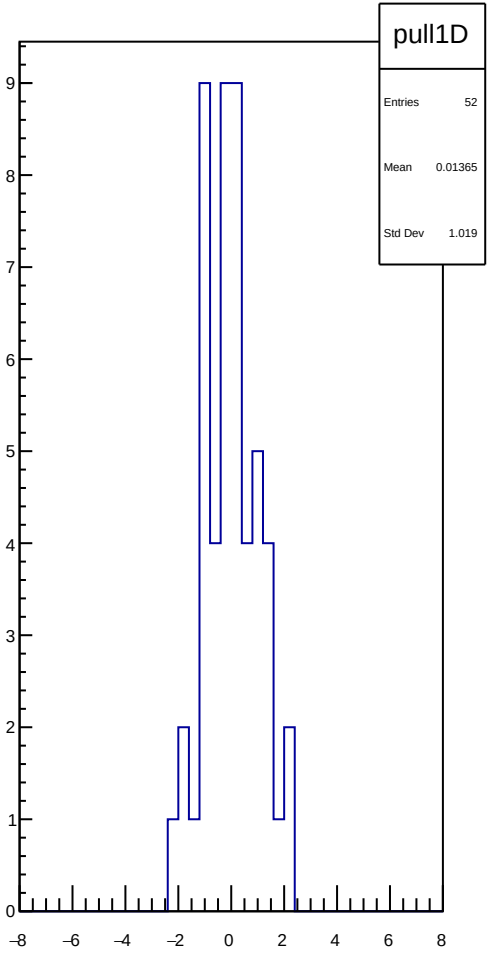

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 839.4 / 50
p0 19.56 ± 0.01918
0
2
4
6
8
10
12
14
16
18
20
22
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

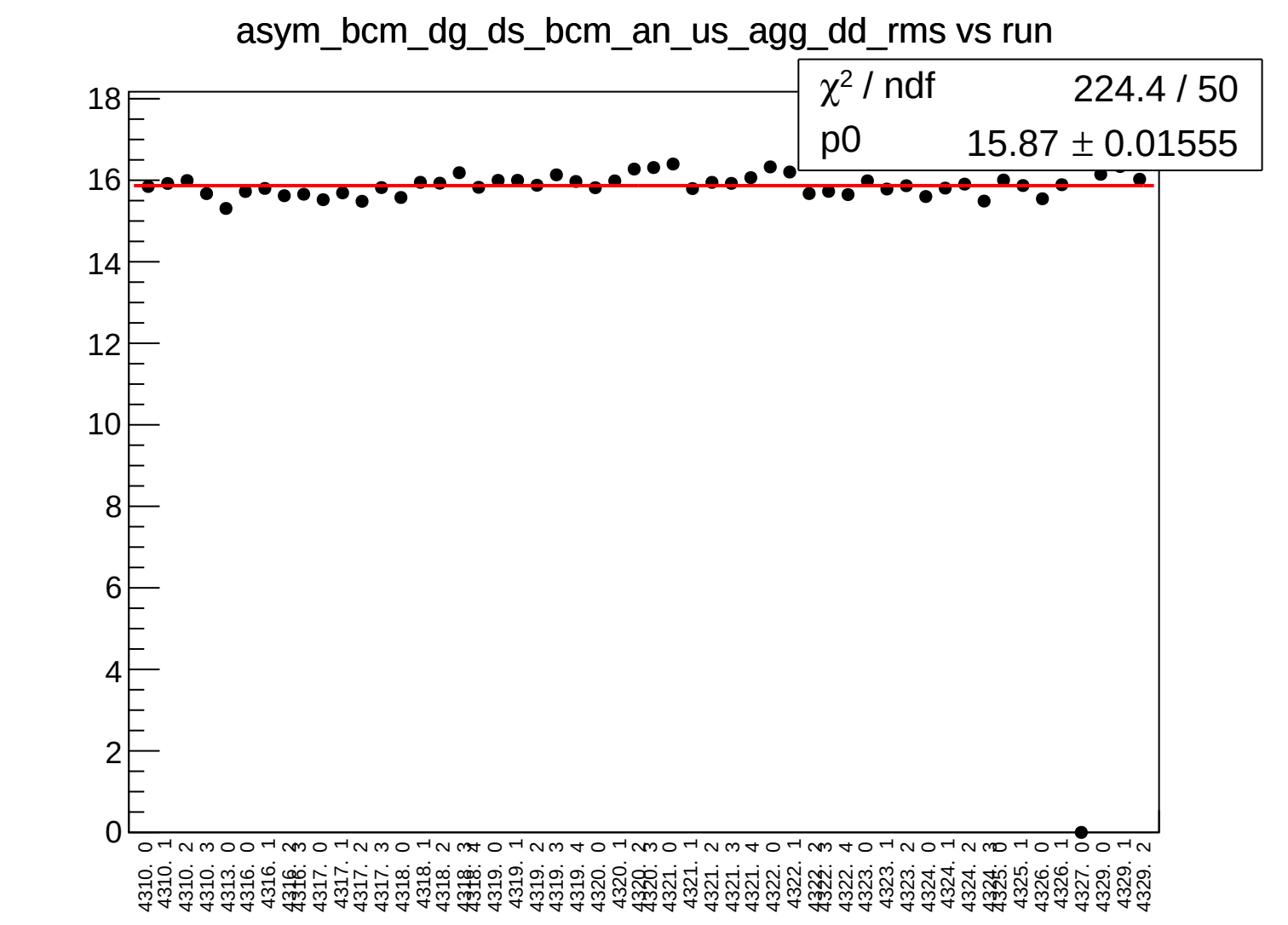

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.165 / 50
p0 159.6 ± 282.8
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

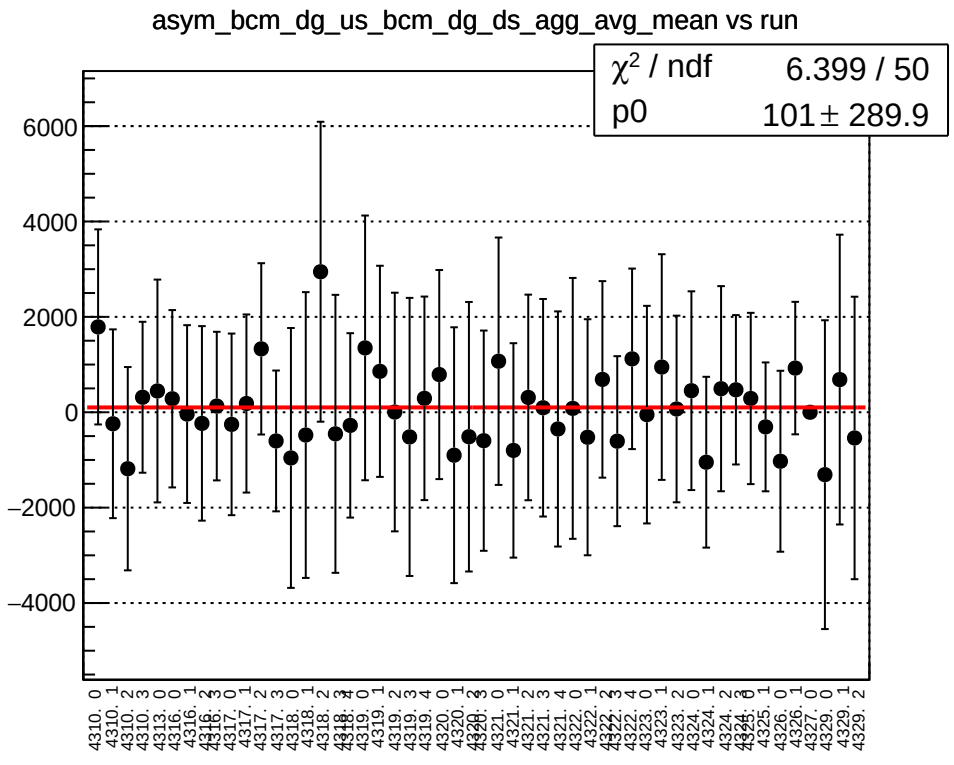

pull1D
Entries 52
Mean −0.006055
Std Dev 0.3476
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

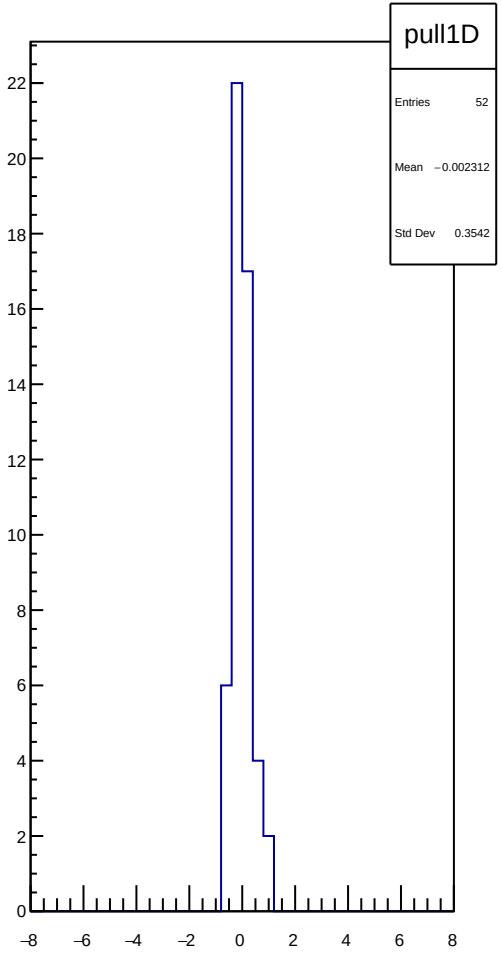

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.869e+04 / 50
p0 201.3 ± 0.2
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

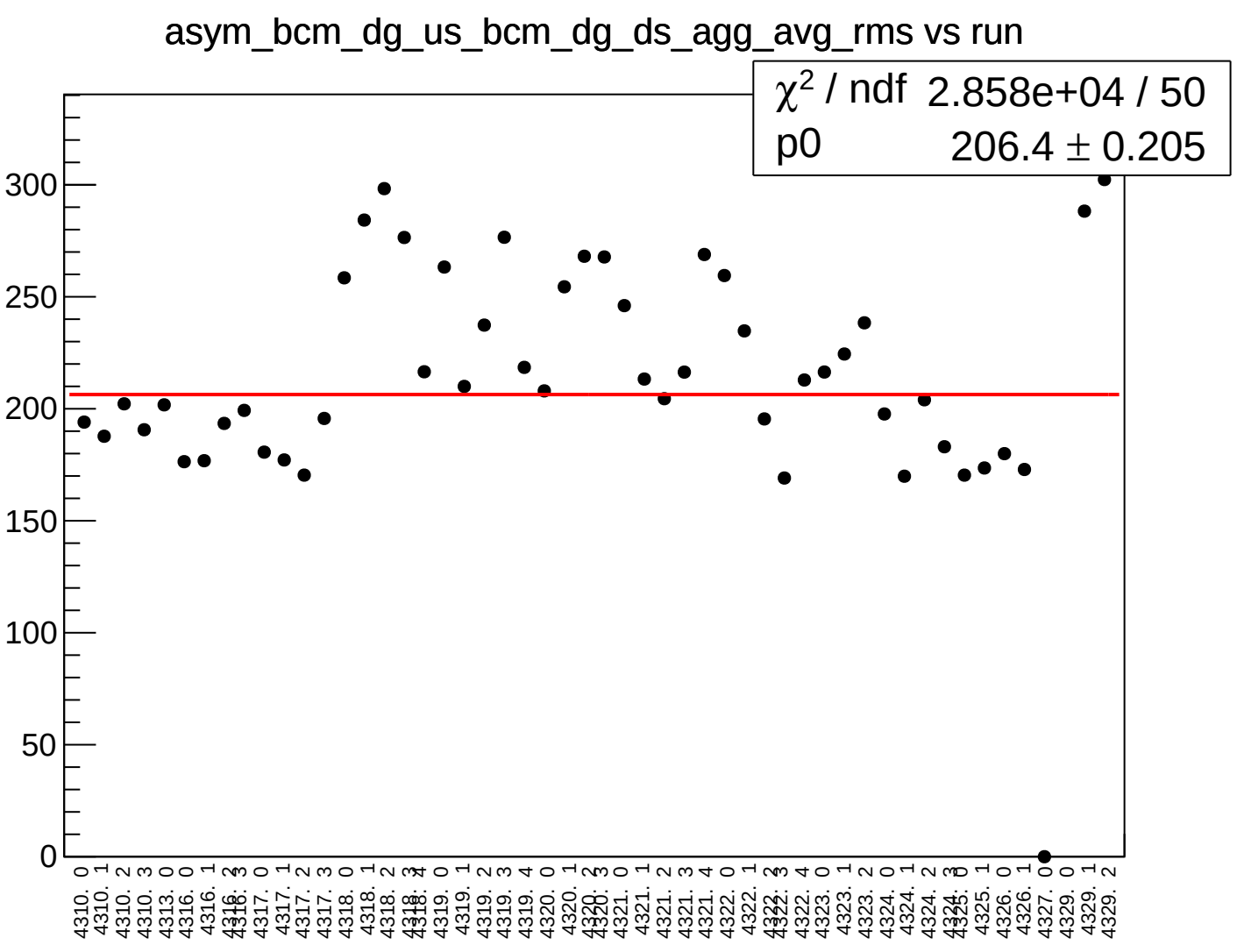

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 52.95 / 50
p0 −14.3 ± 21.99
600
400
200
0
−200
−400
−600

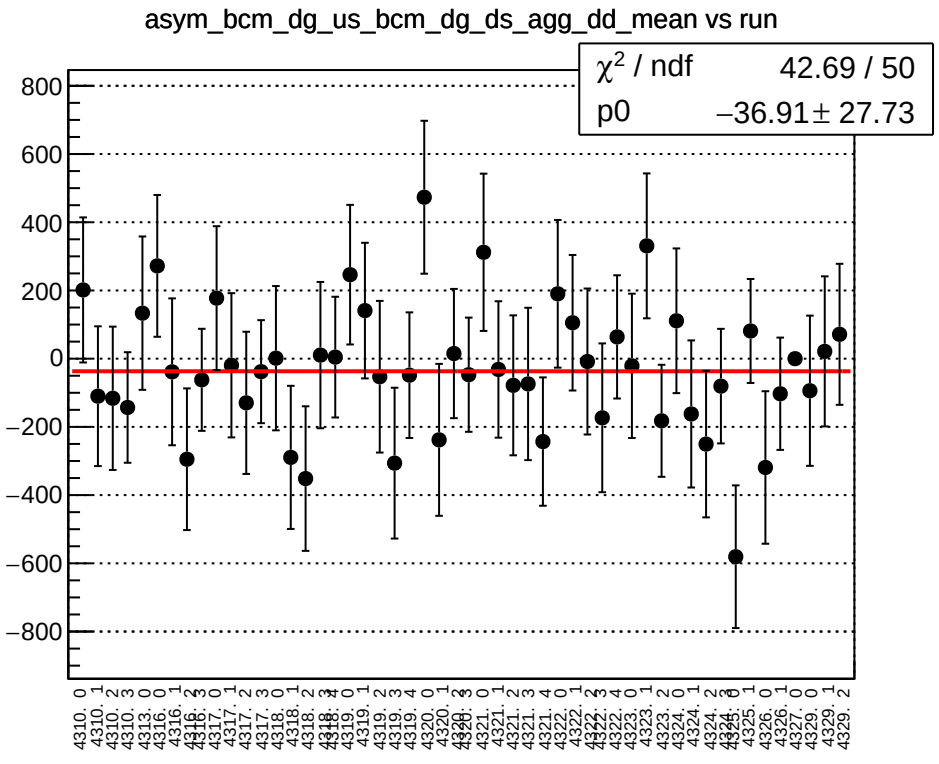

pull1D
Entries 52
Mean 0.01365
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

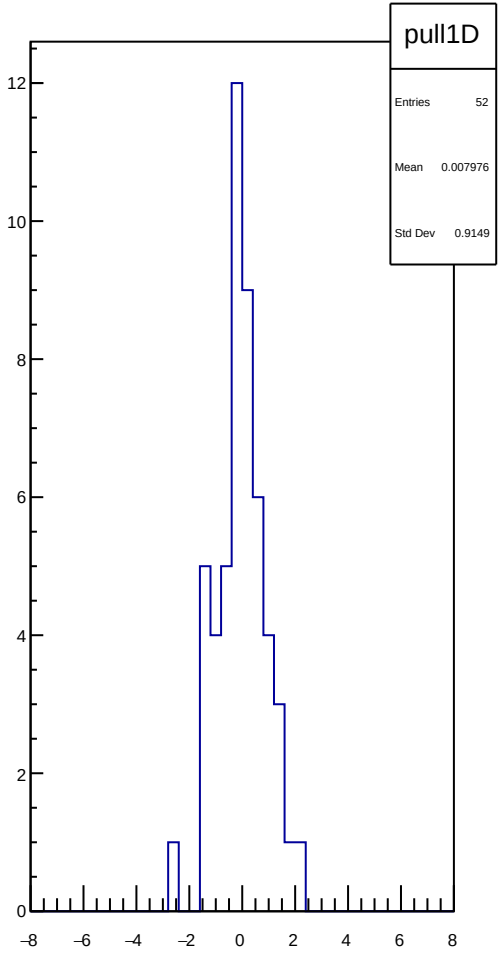

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 224.4 / 50
p0 15.87 ± 0.01555
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

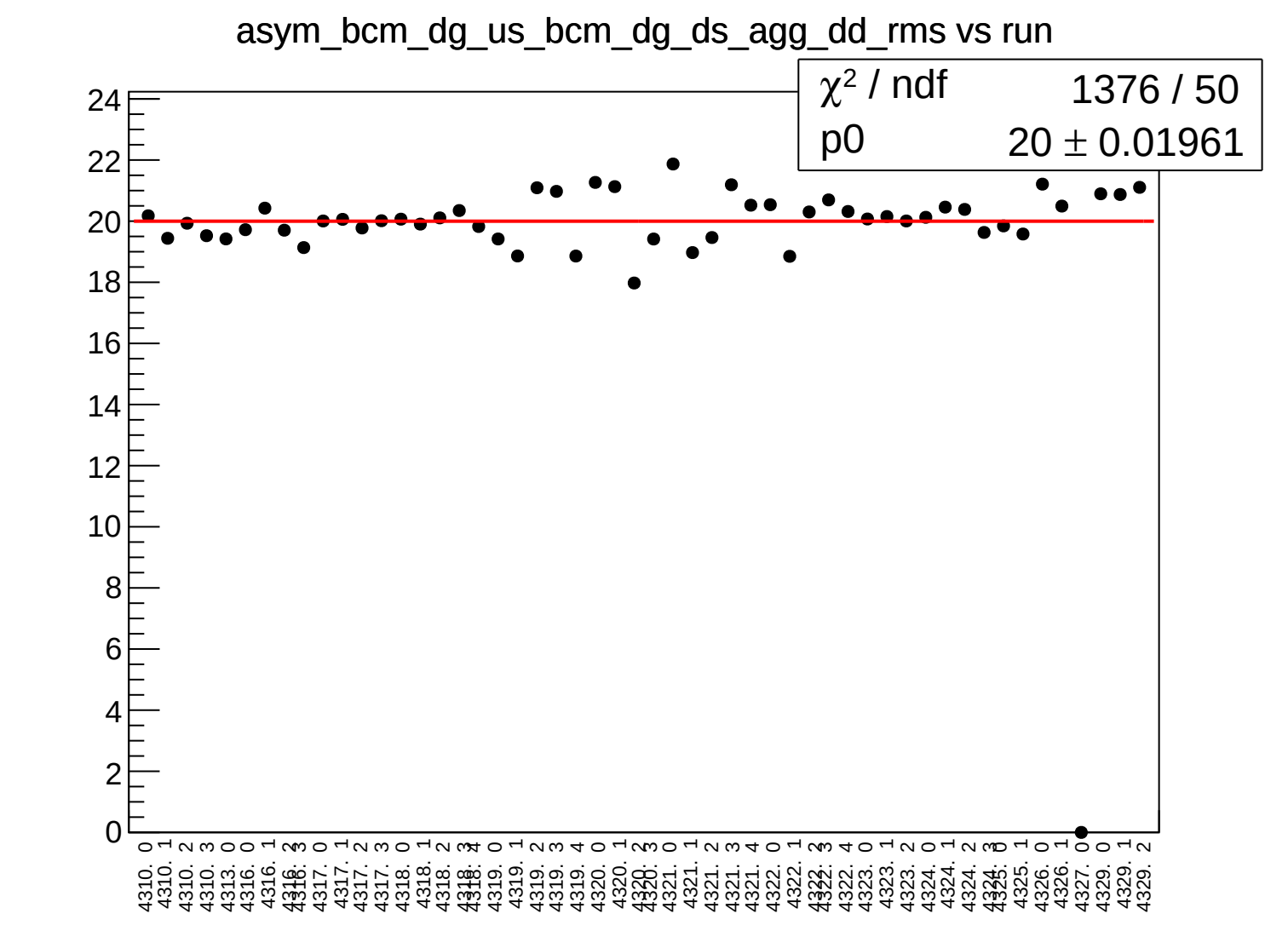

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.399 / 50
p0 101 ± 289.9
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

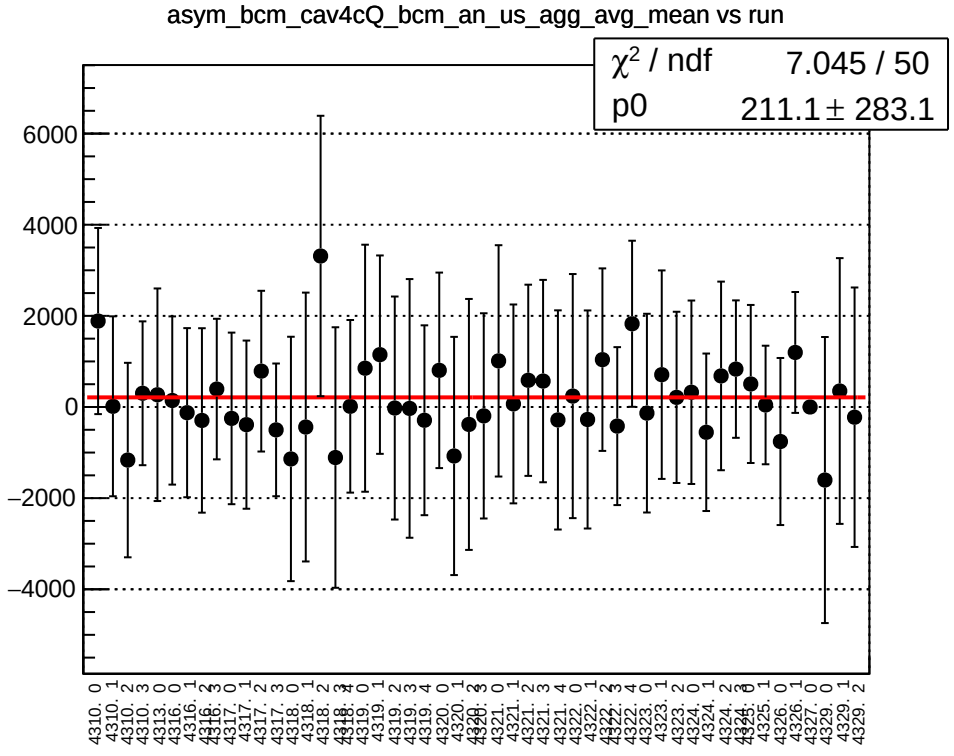

pull1D
Entries 52
Mean −0.002312
Std Dev 0.3542
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

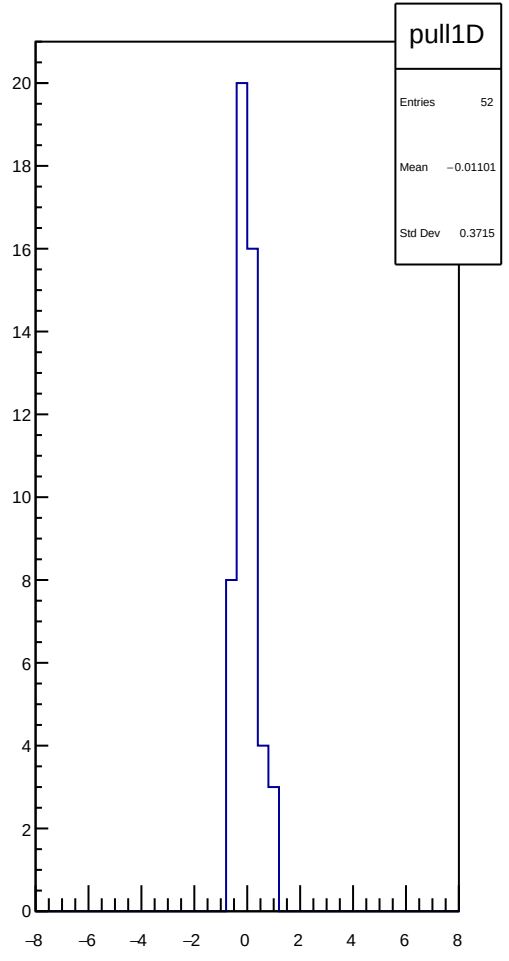

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.858e+04 / 50
p0 206.4 ± 0.205
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

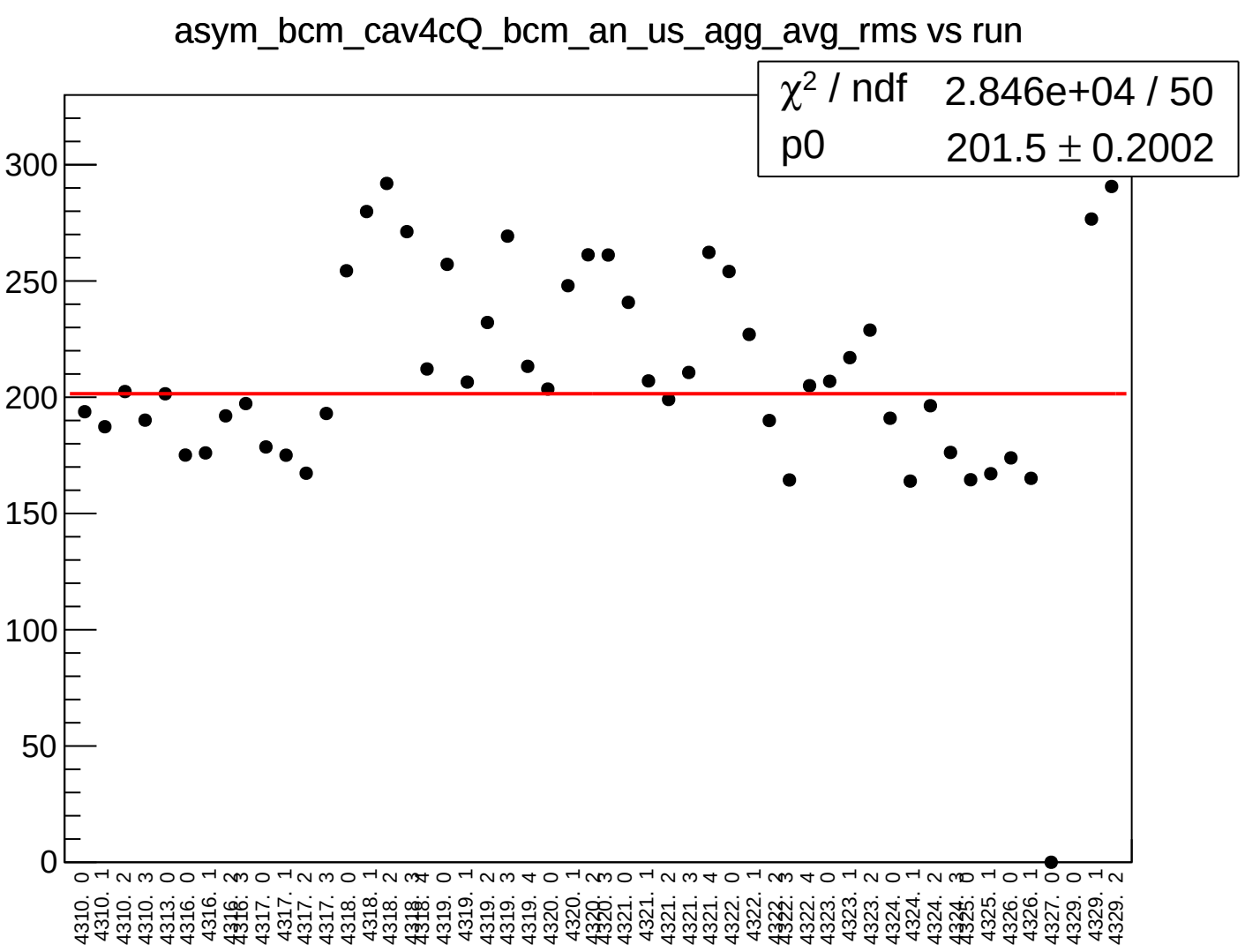

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.69 / 50
p0 −36.91± 27.73
800
600
400
200
0
−200
−400
−600
−800

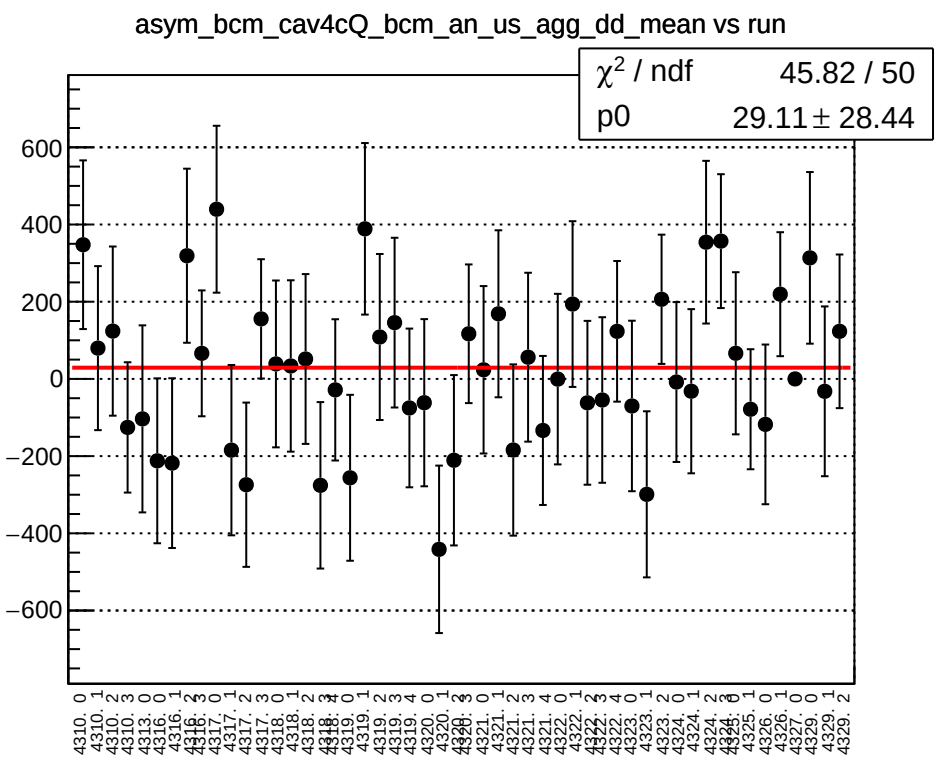

pull1D
Entries 52
Mean 0.007976
Std Dev 0.9149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

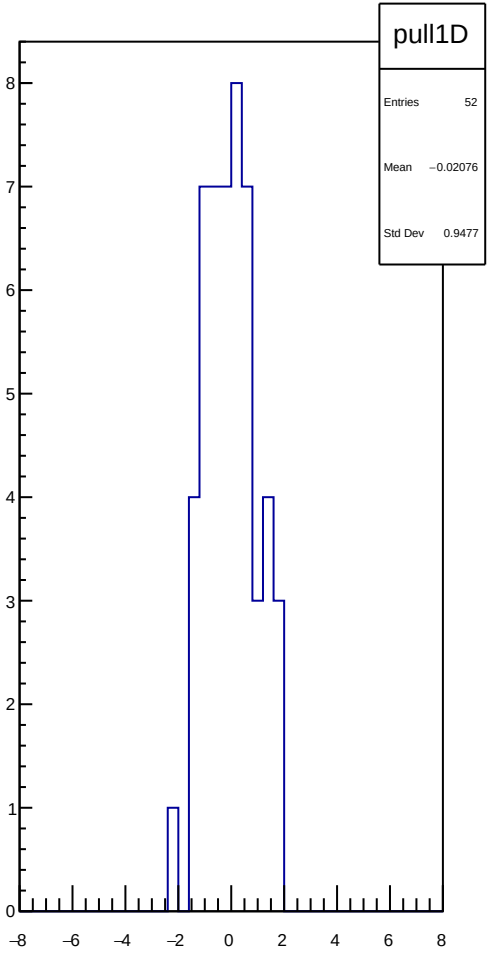

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1376 / 50
p0 20 ± 0.01961
24
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

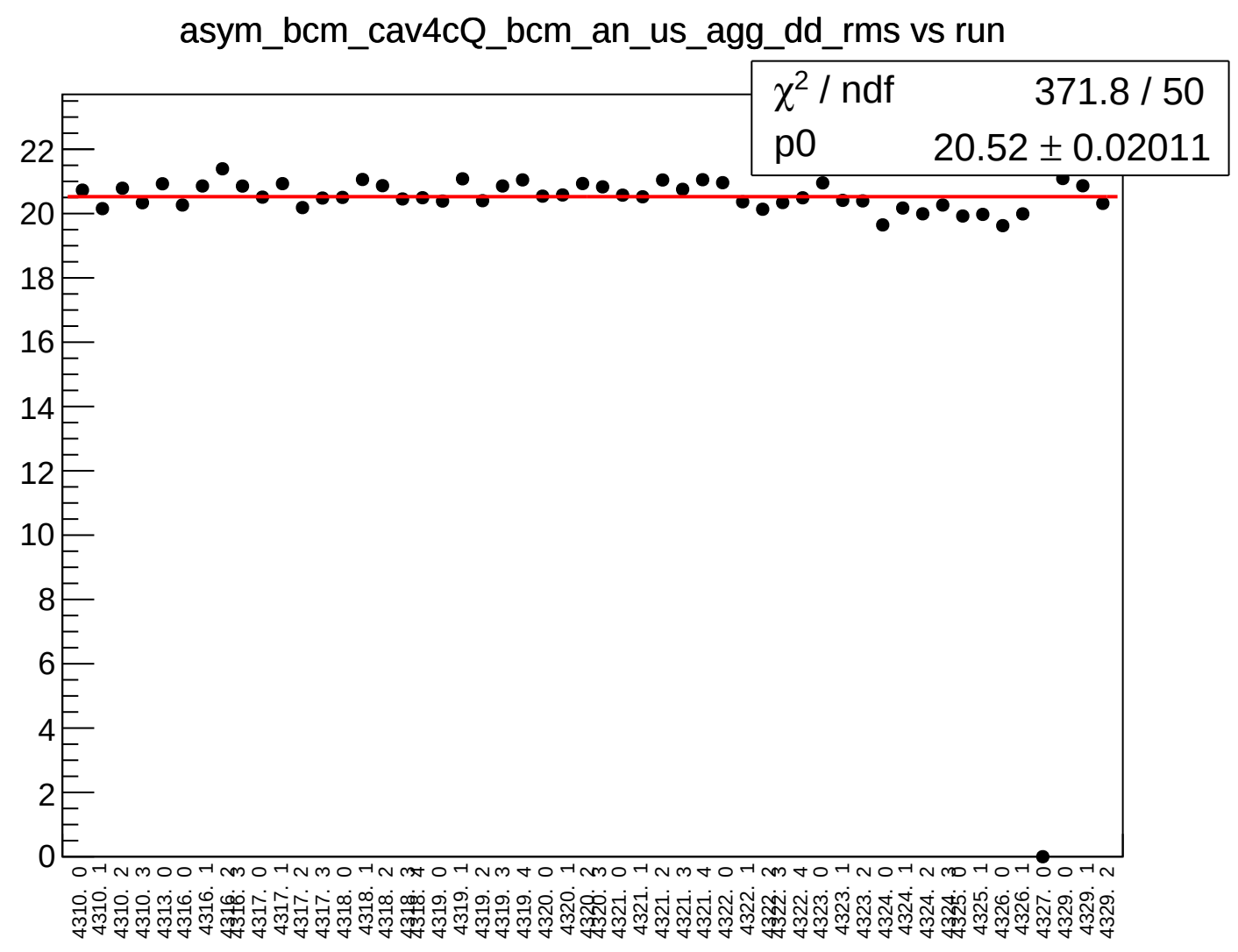

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 7.045 / 50
p0 211.1 ± 283.1
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

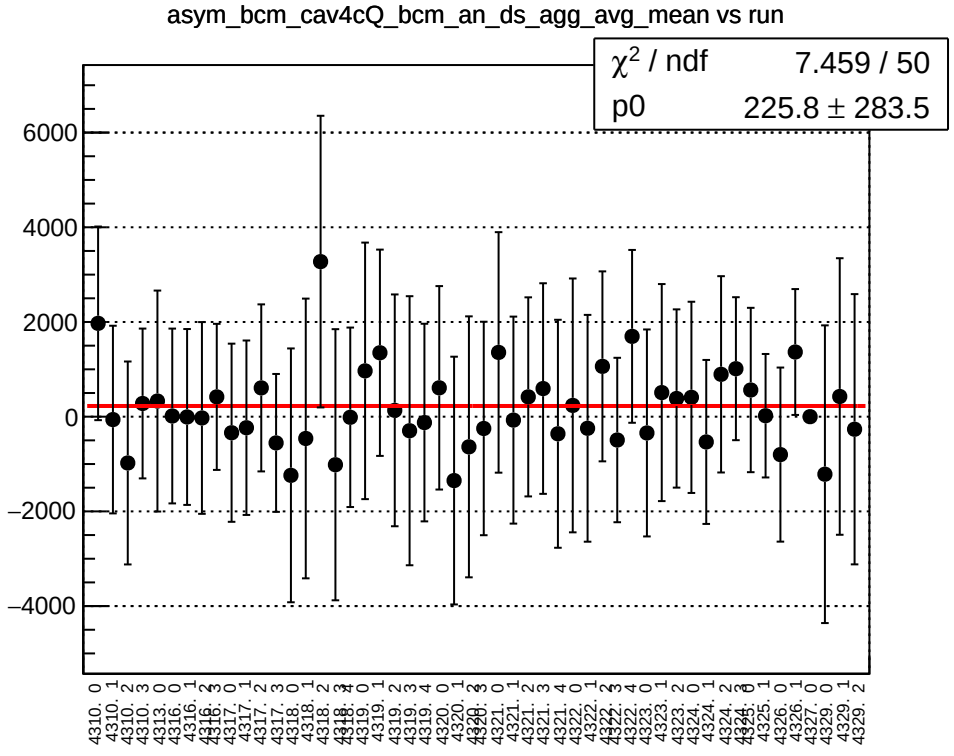

pull1D
Entries 52
Mean −0.01101
Std Dev 0.3715
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

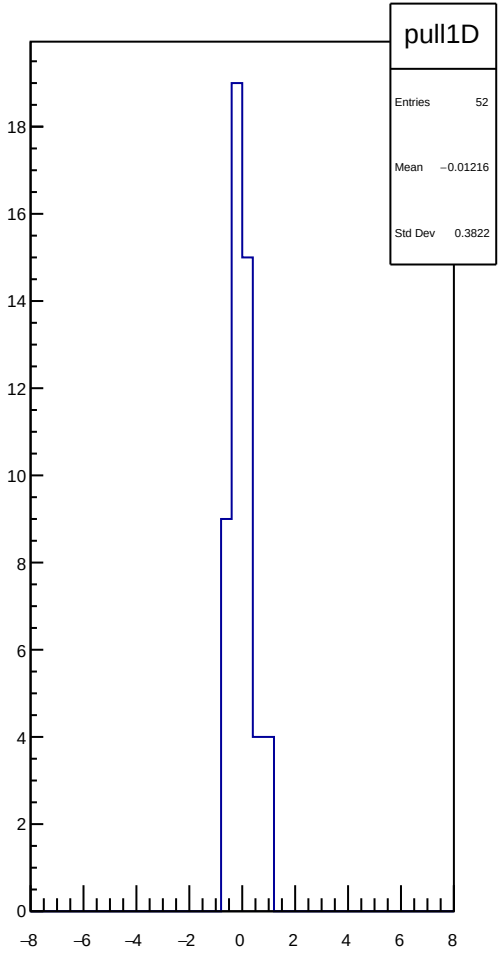

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.846e+04 / 50
p0 201.5 ± 0.2002
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

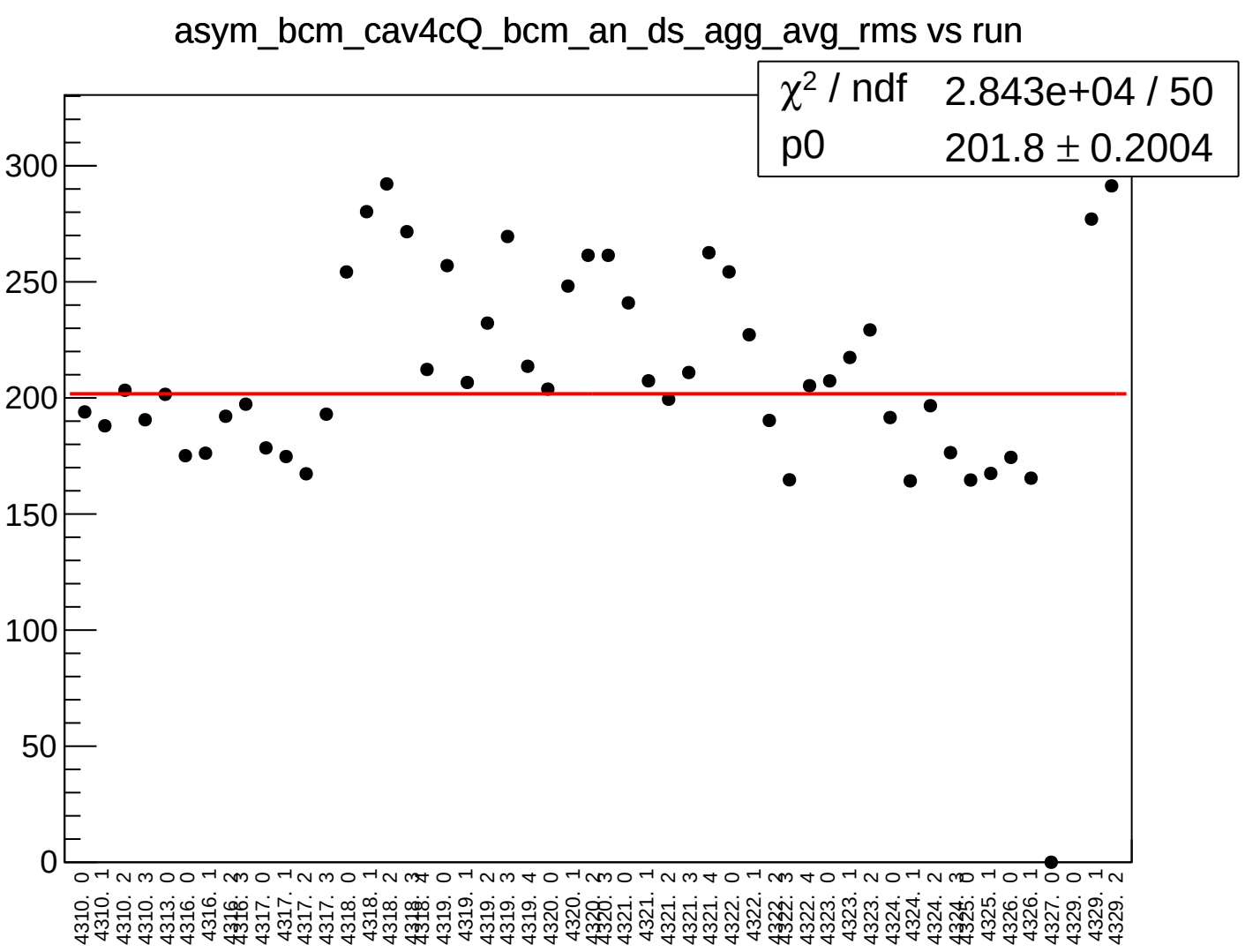

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 45.82 / 50
p0 29.11 ± 28.44
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

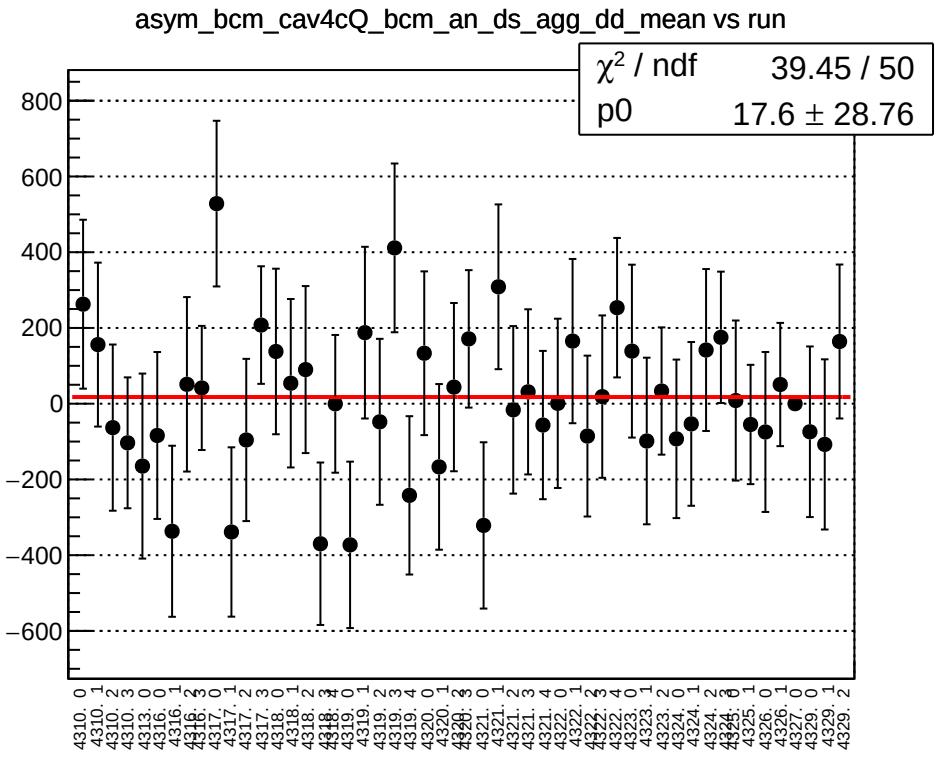

pull1D
Entries 52
Mean −0.02076
Std Dev 0.9477
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

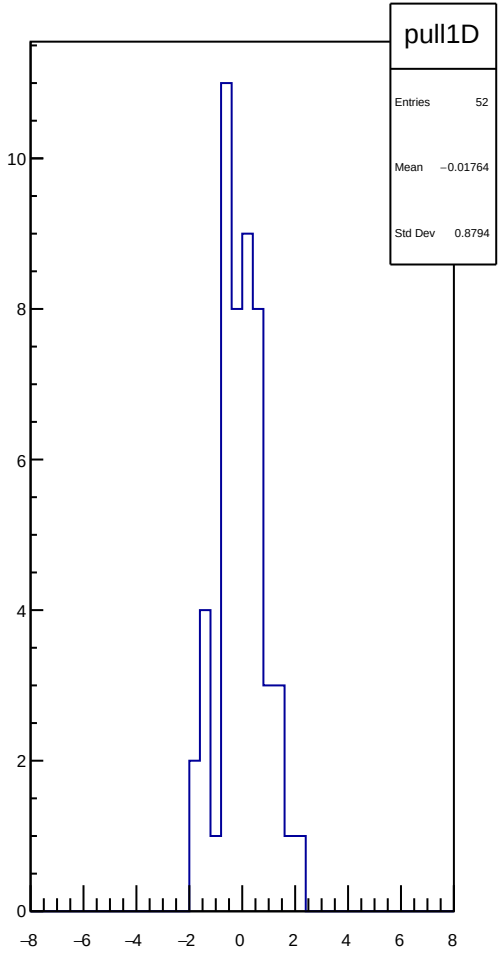

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 371.8 / 50
p0 20.52 ± 0.02011
0
2
4
6
8
10
12
14
16
18
20
22
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

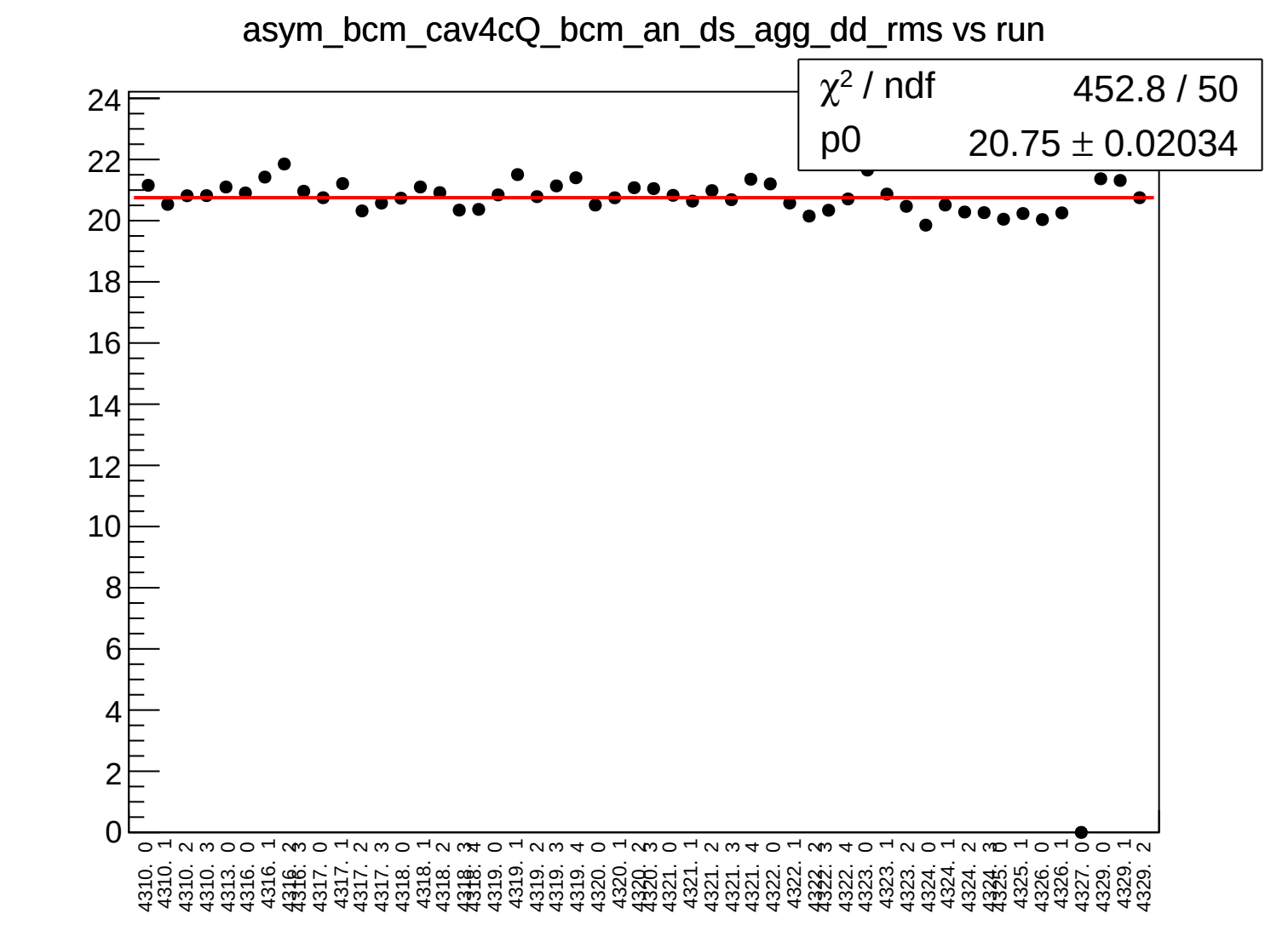

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.459 / 50
p0 225.8 ± 283.5
6000
4000
2000
0
−2000
−4000

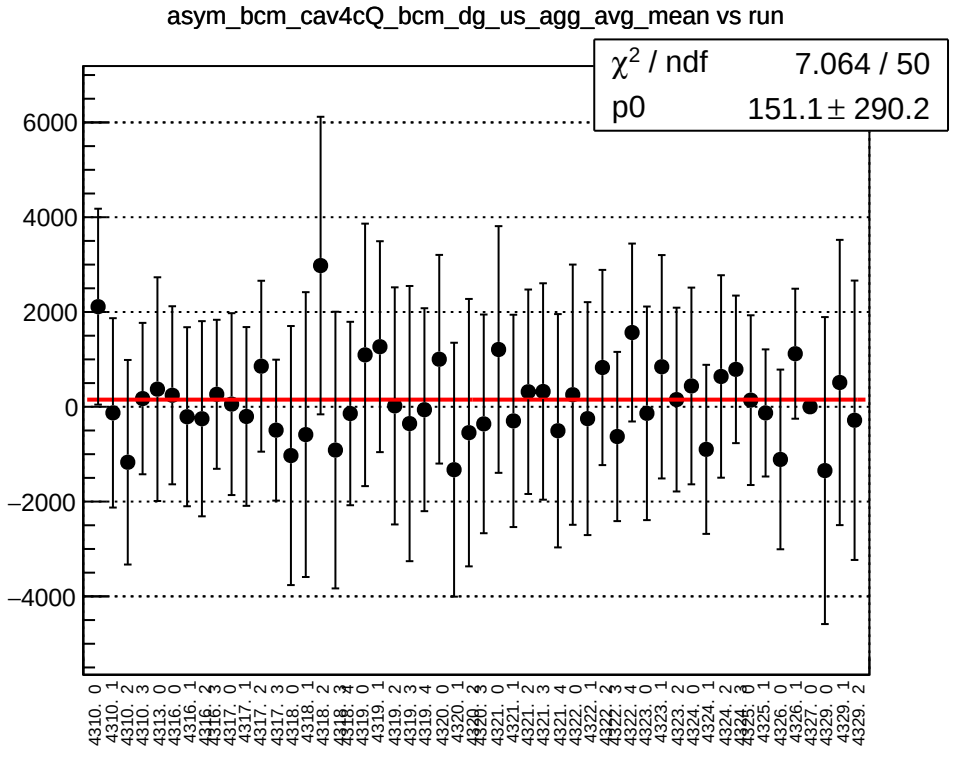

pull1D
Entries 52
Mean −0.01216
Std Dev 0.3822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

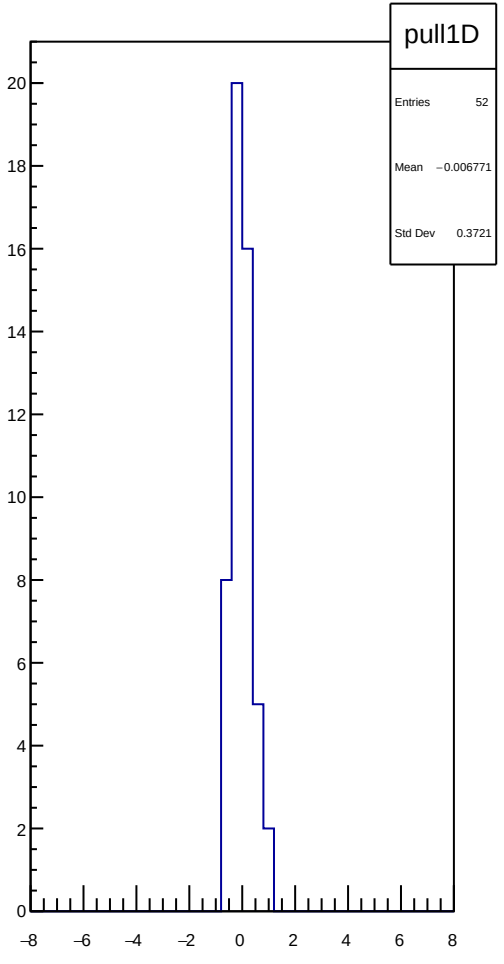

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.843e+04 / 50
p0 201.8 ± 0.2004
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

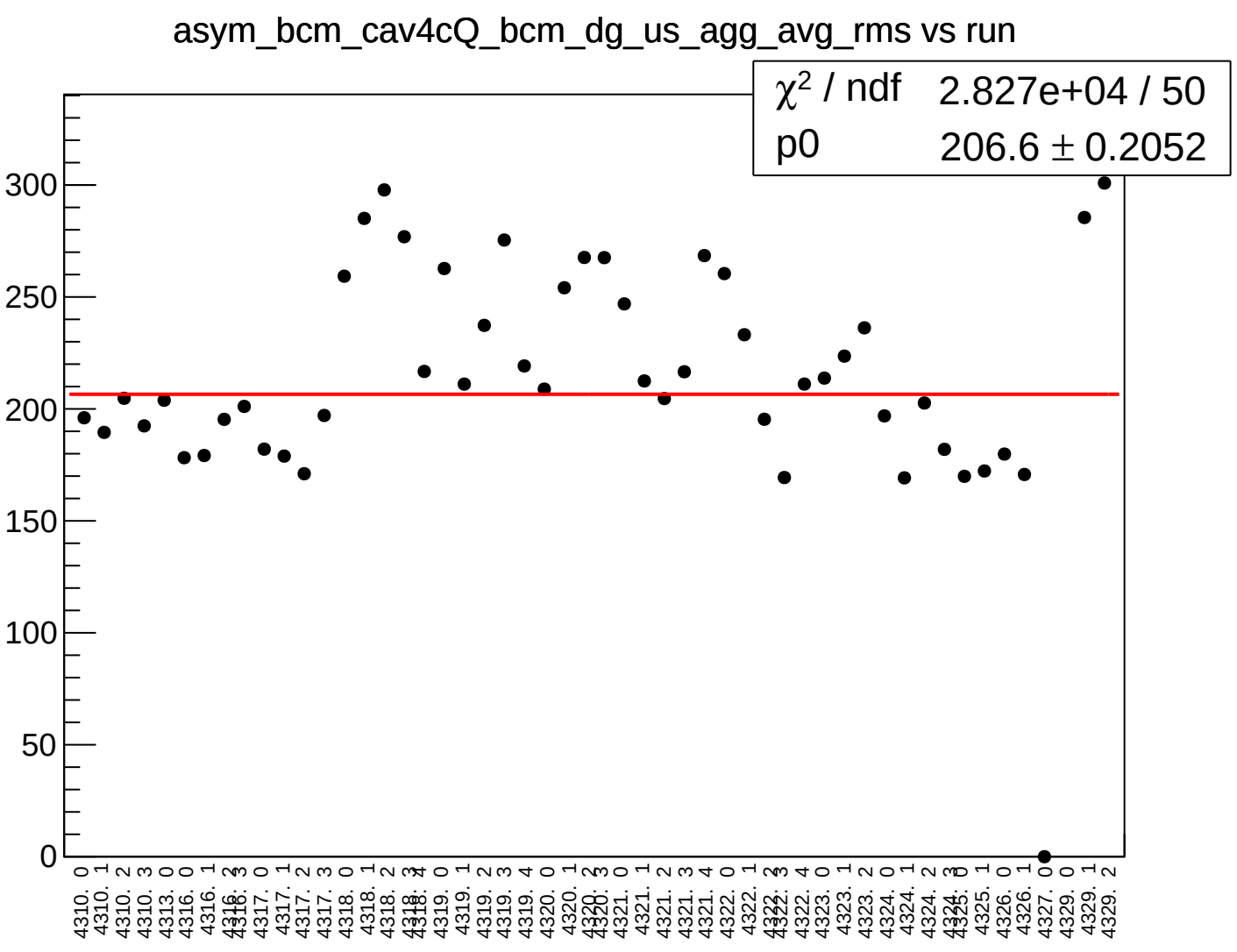

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.45 / 50
p0 17.6 ± 28.76
800
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

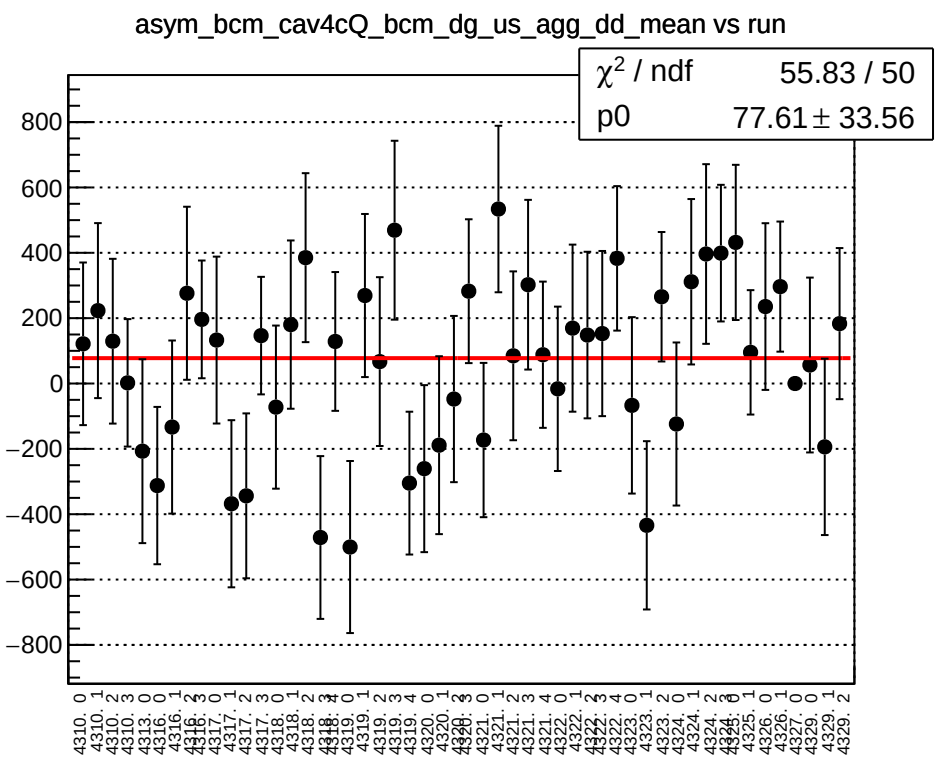

pull1D
Entries 52
Mean −0.01764
Std Dev 0.8794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

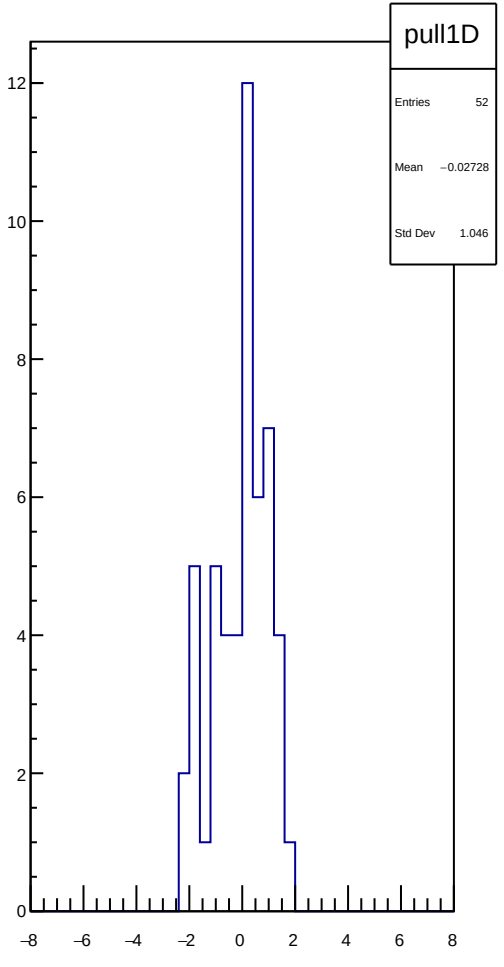

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 452.8 / 50
p0 20.75 ± 0.02034
24
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

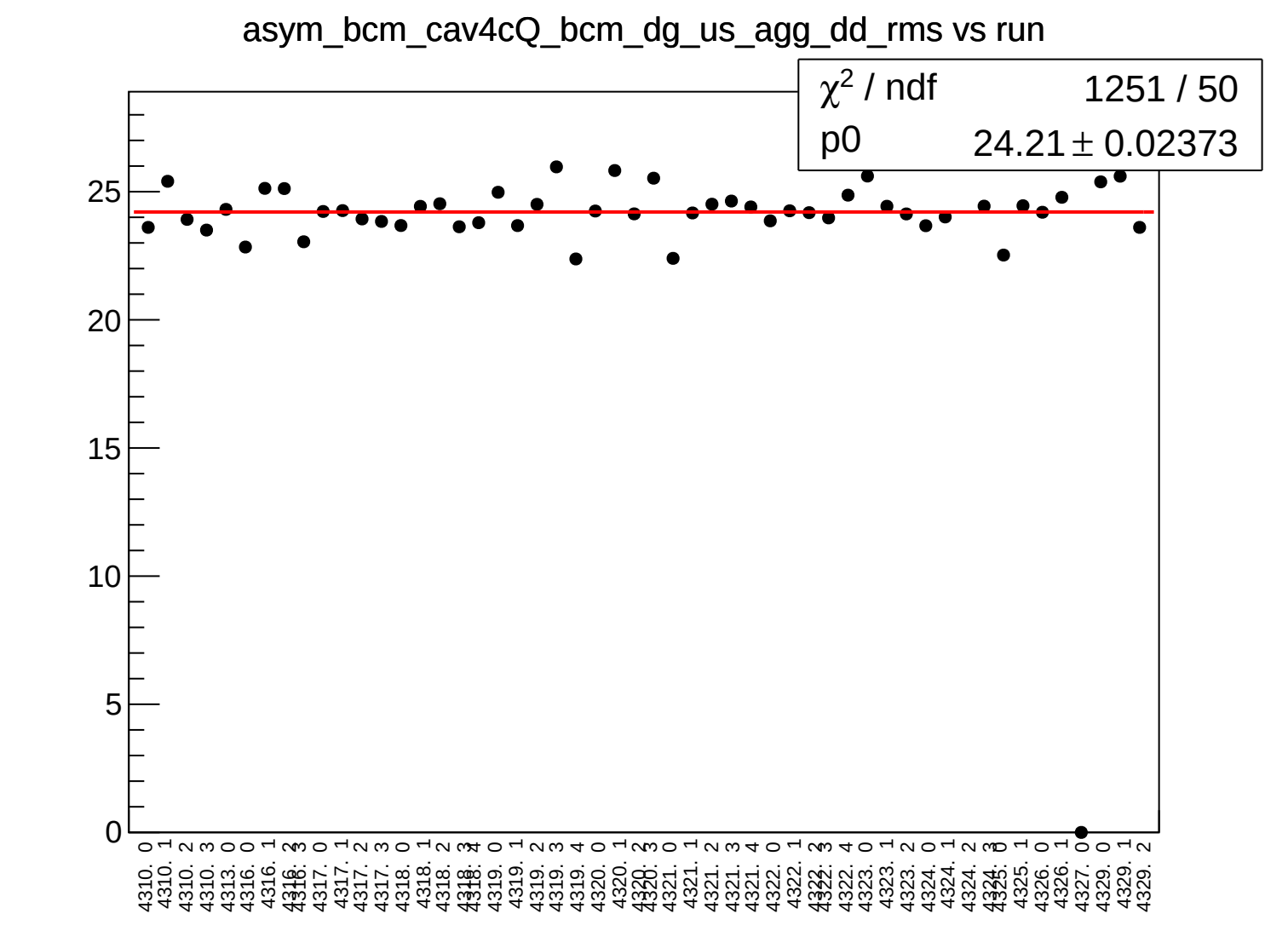

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 7.064 / 50
p0 151.1 ± 290.2
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

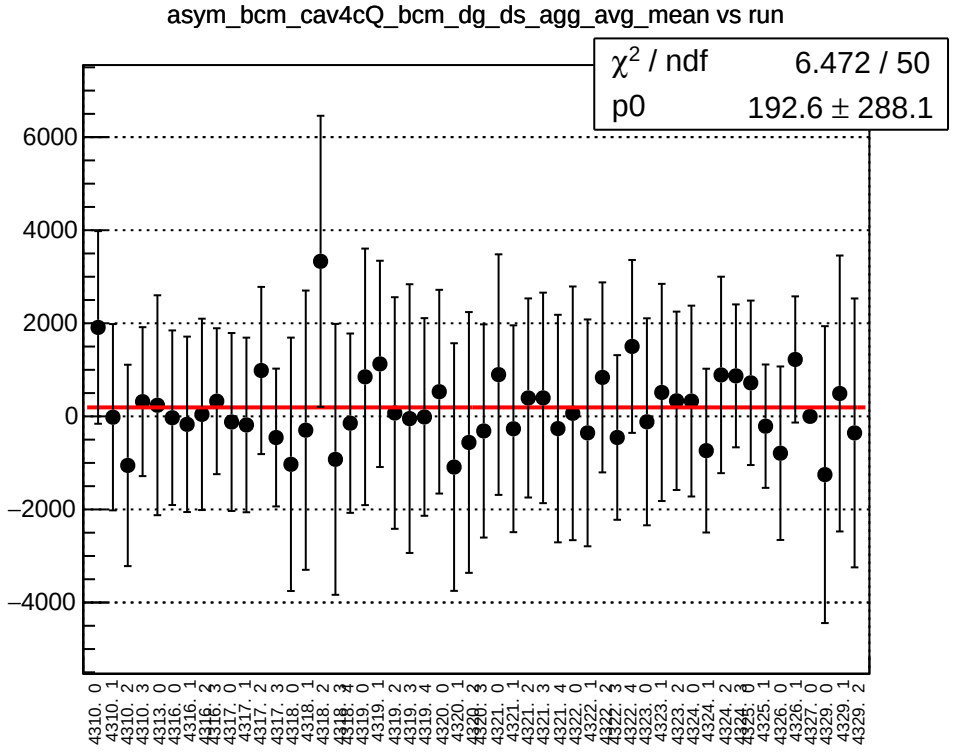

pull1D
Entries 52
Mean −0.006771
Std Dev 0.3721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

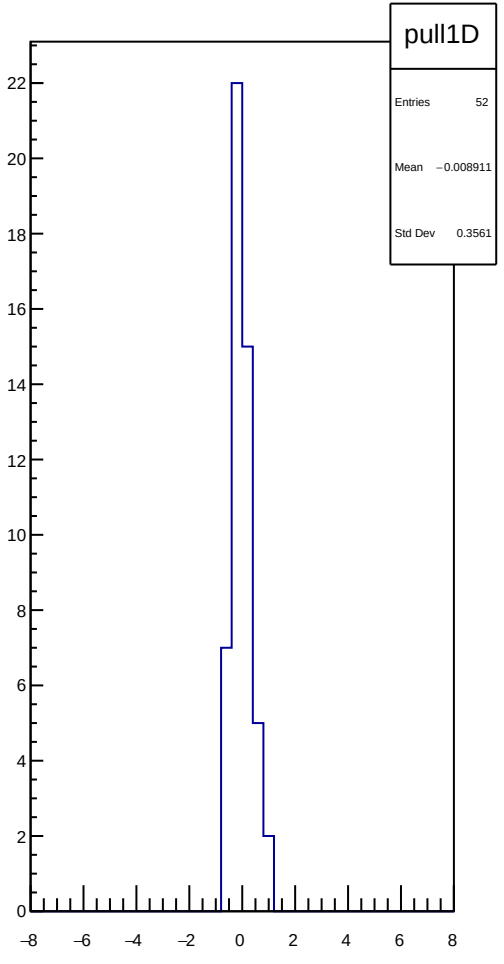

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.827e+04 / 50
p0 206.6 ± 0.2052
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

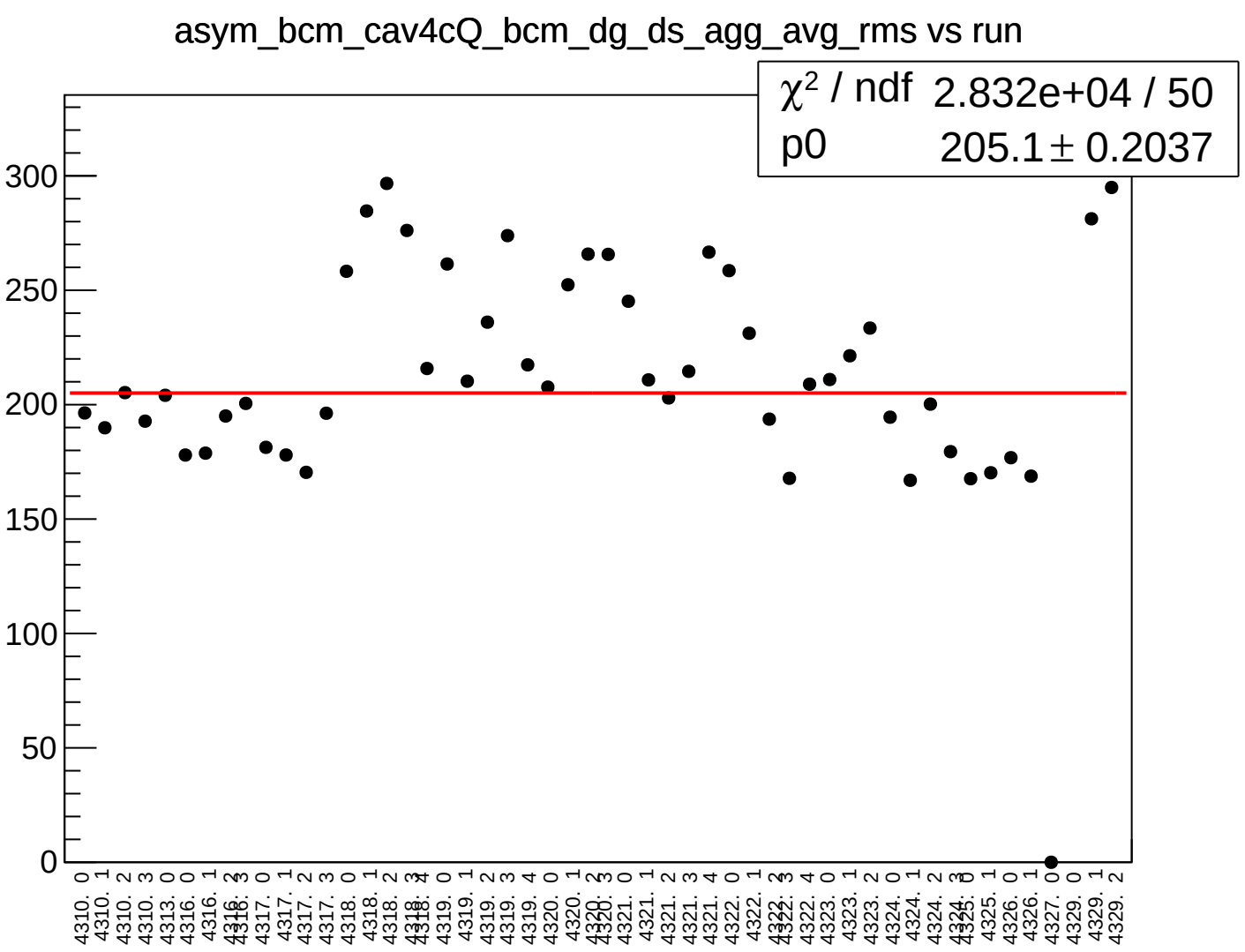

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 55.83 / 50
p0 77.61 ± 33.56
800
600
400
200
0
−200
−400
−600
−800

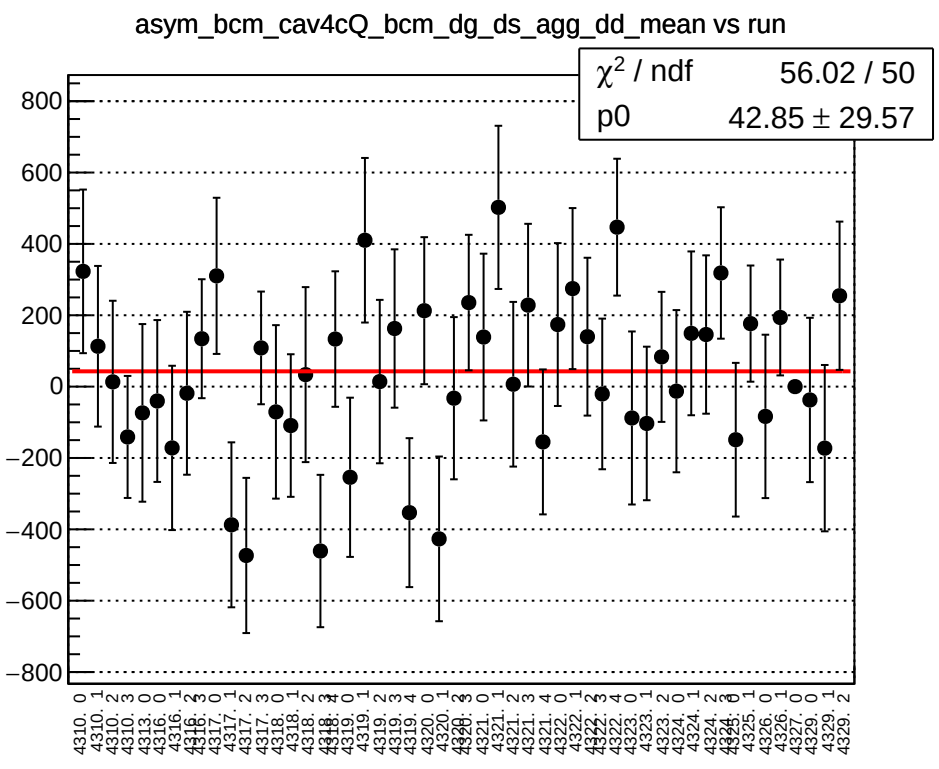

pull1D
Entries 52
Mean −0.02728
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

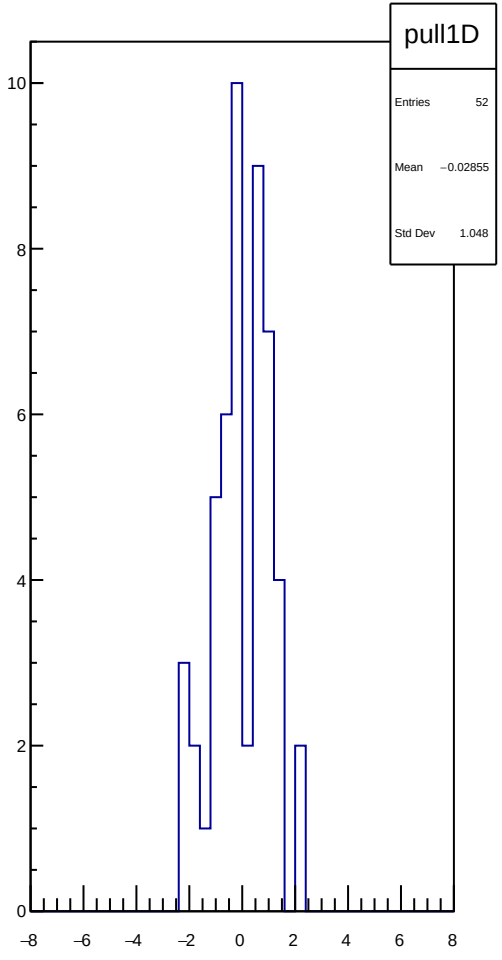

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1251 / 50
p0 24.21 ± 0.02373
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

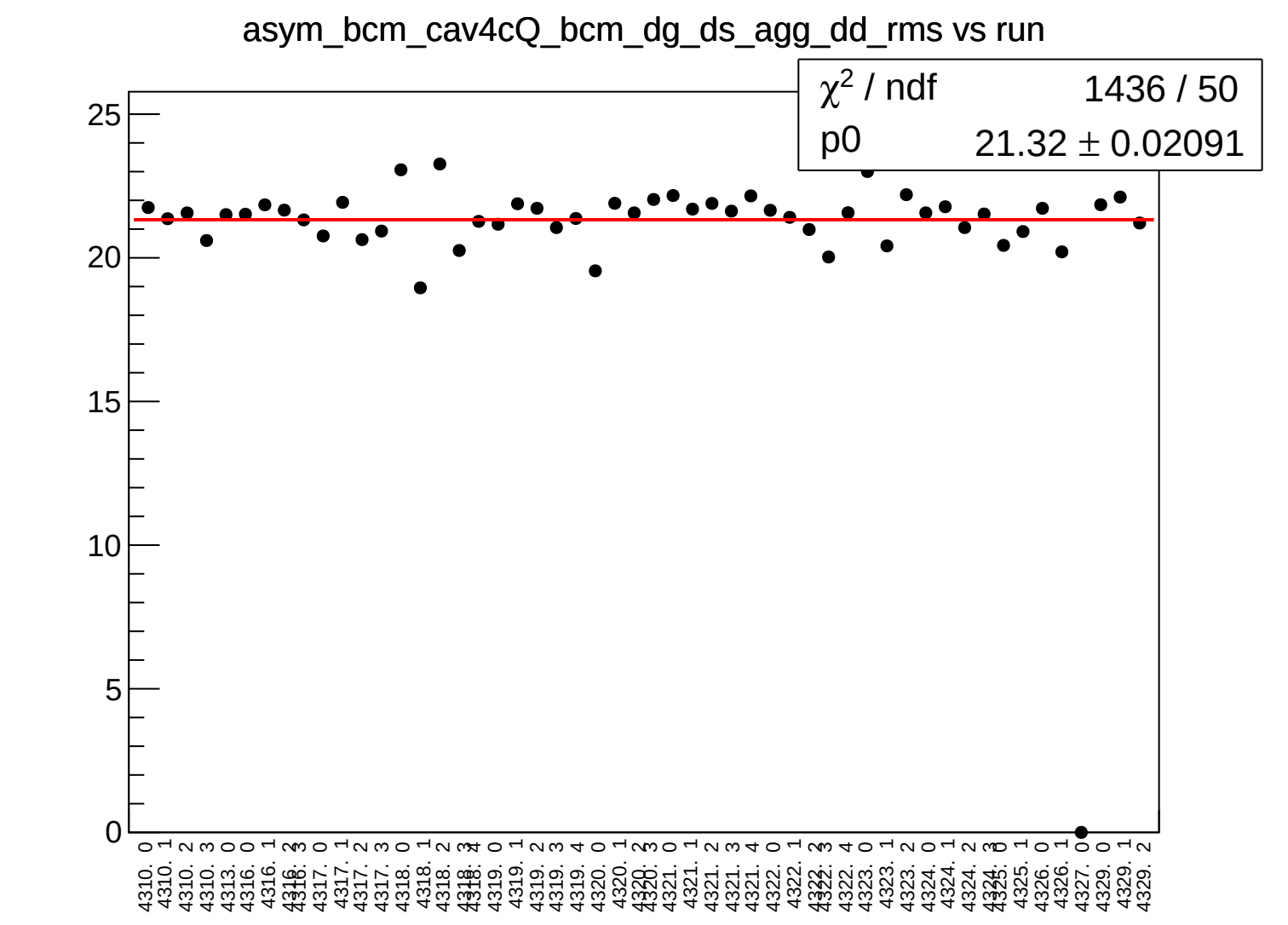

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.472 / 50
p0 192.6 ± 288.1
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

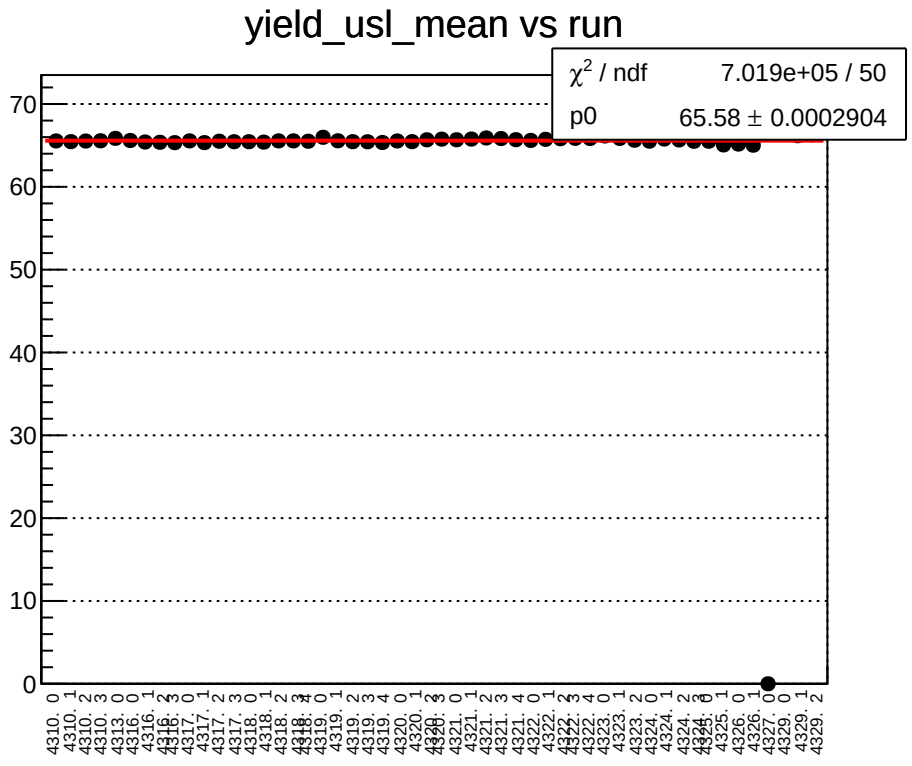

pull1D
Entries 52
Mean −0.008911
Std Dev 0.3561
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

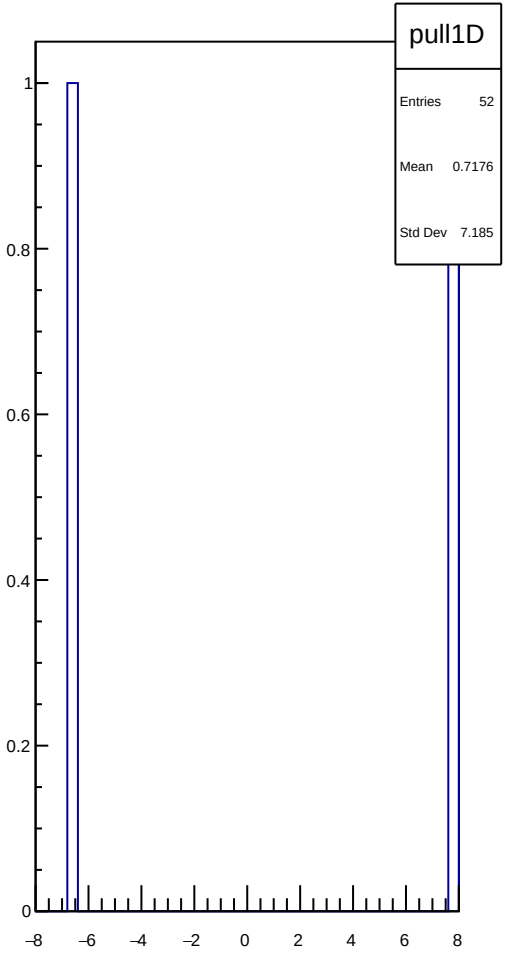

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.832e+04 / 50
p0 205.1 ± 0.2037
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

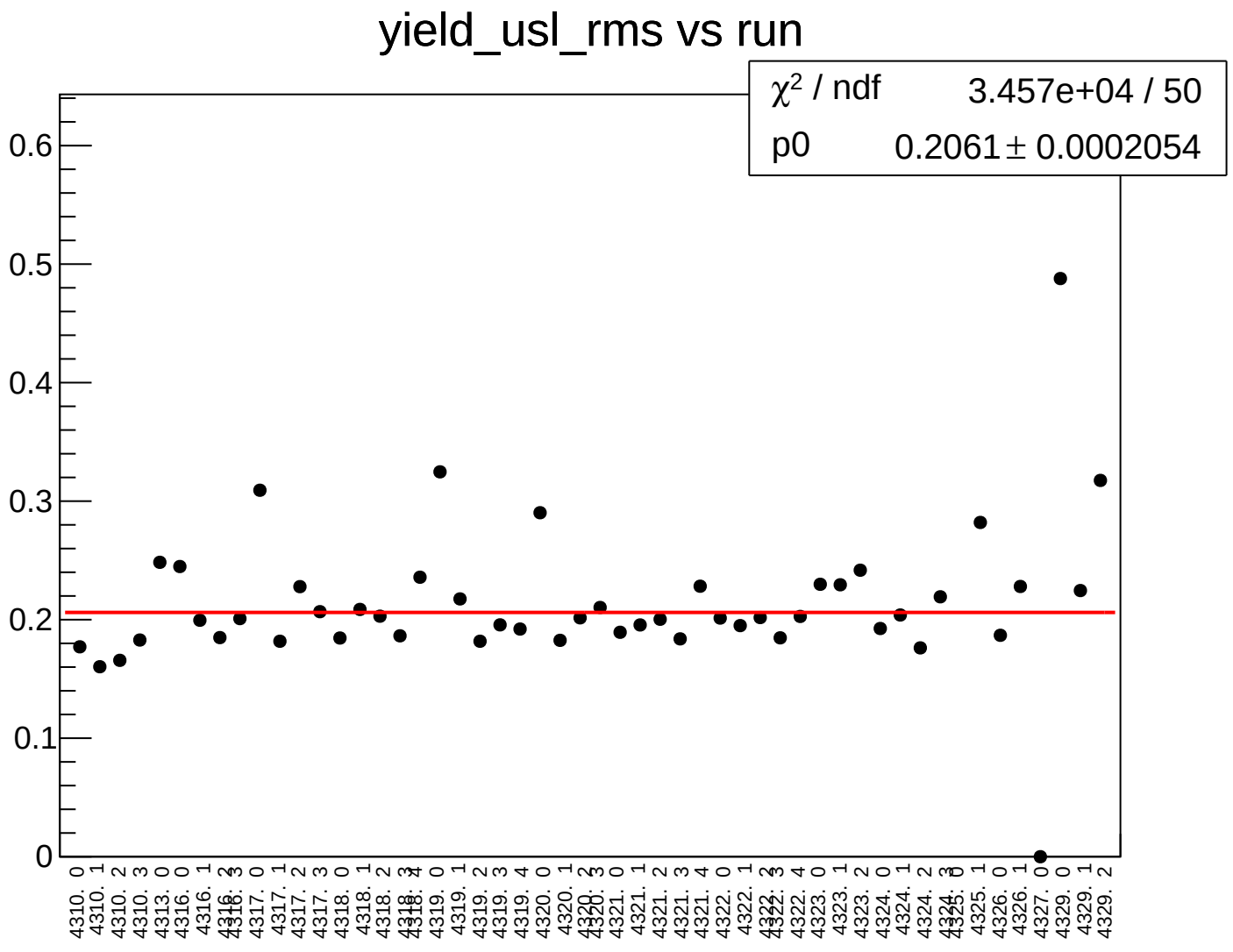

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 56.02 / 50
p0 42.85 ± 29.57
800
600
400
200
0
−200
−400
−600
−800
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.02855
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1436 / 50
p0 21.32 ± 0.02091
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_usl_mean vs run
χ² / ndf 7.019e+05 / 50
p0 65.58 ± 0.0002904
70
60
50
40
30
20
10
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.7176
Std Dev 7.185
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 3.457e+04 / 50
p0 0.2061 ± 0.0002054
0.6
0.5
0.4
0.3
0.2
0.1
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
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4320. 1
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4321. 2
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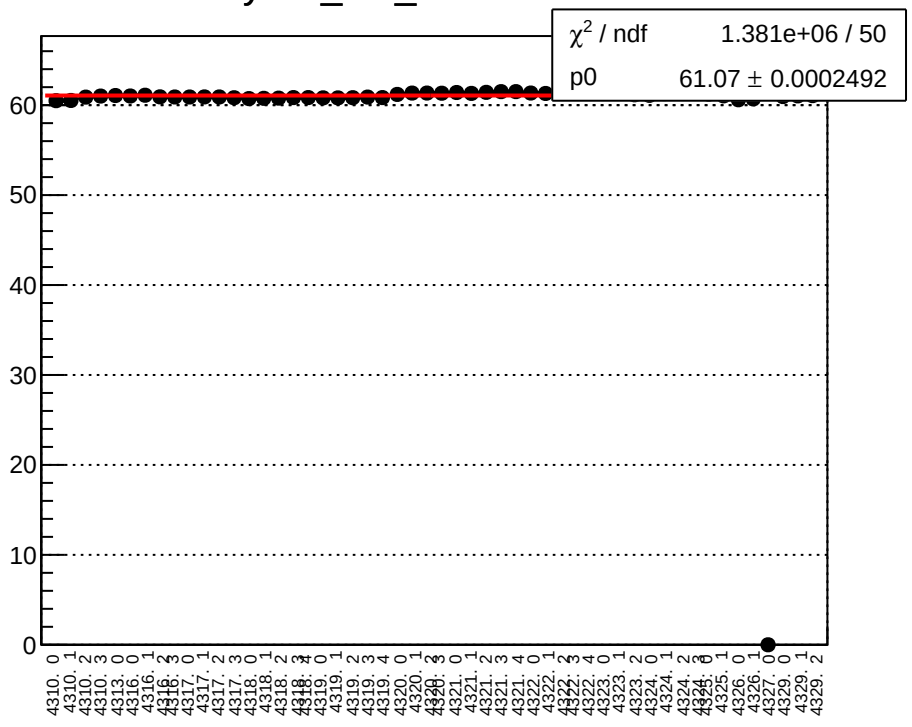
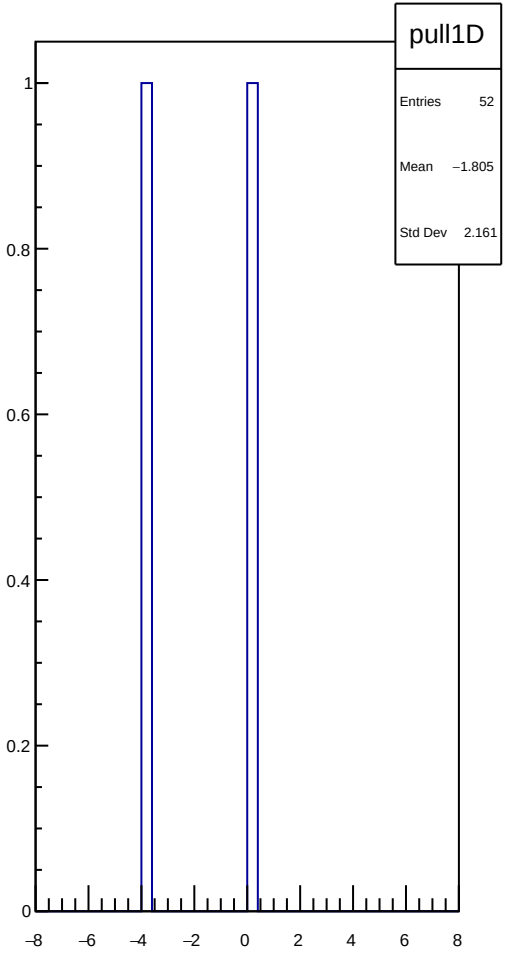
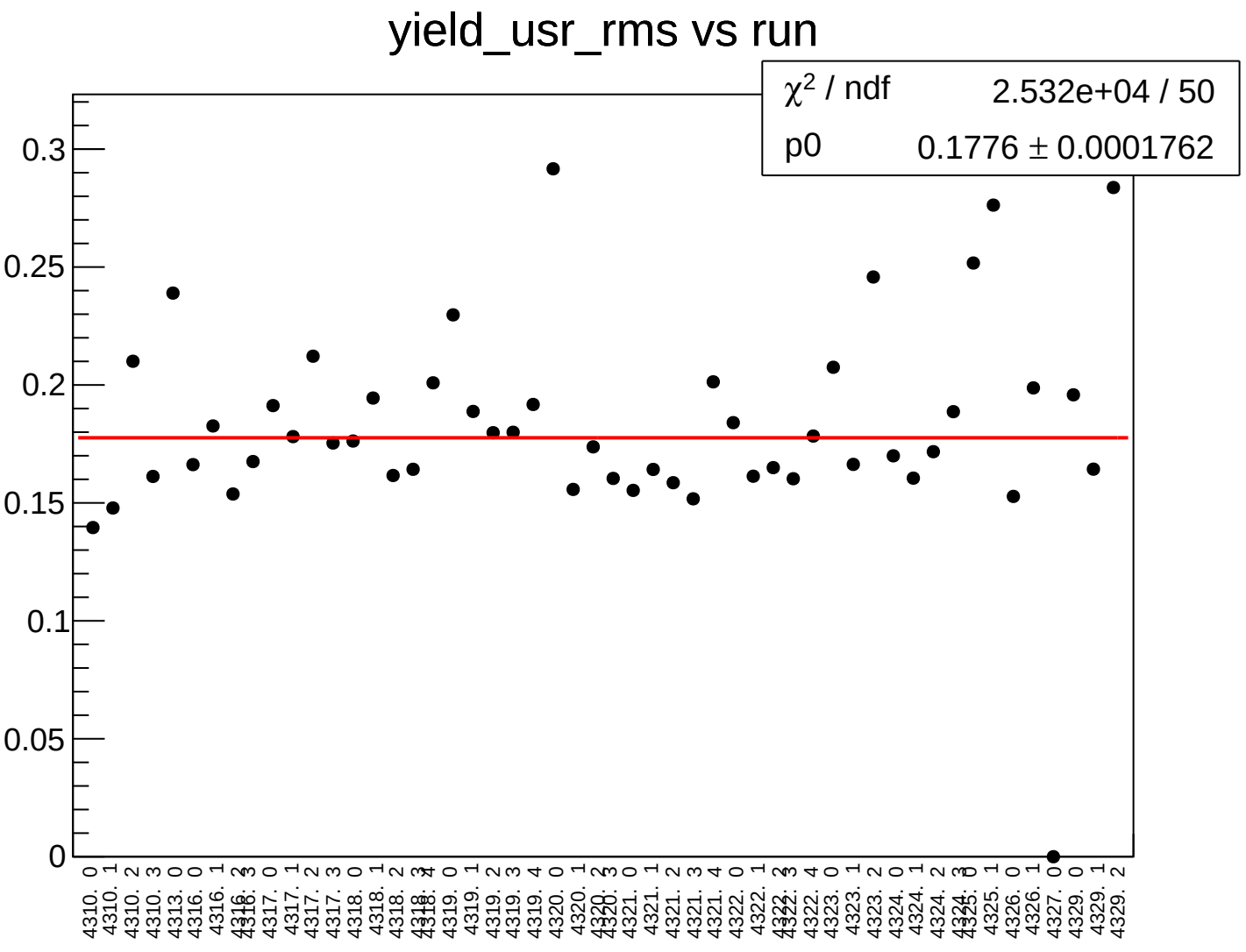
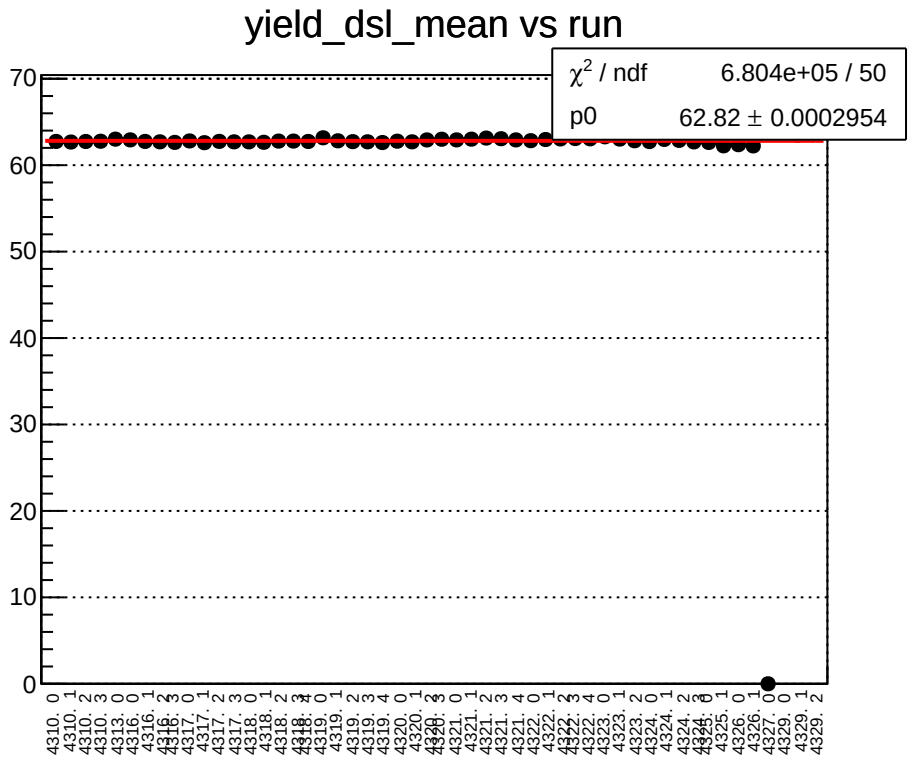
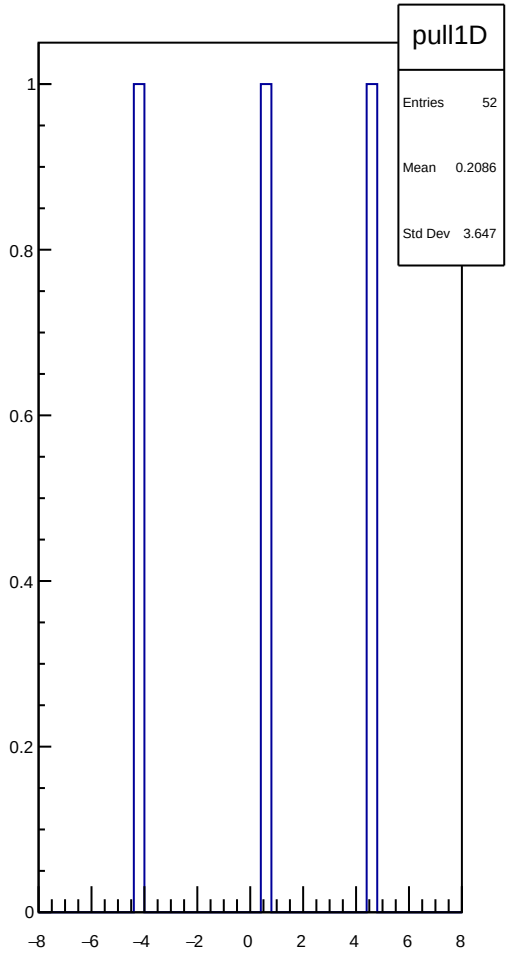
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

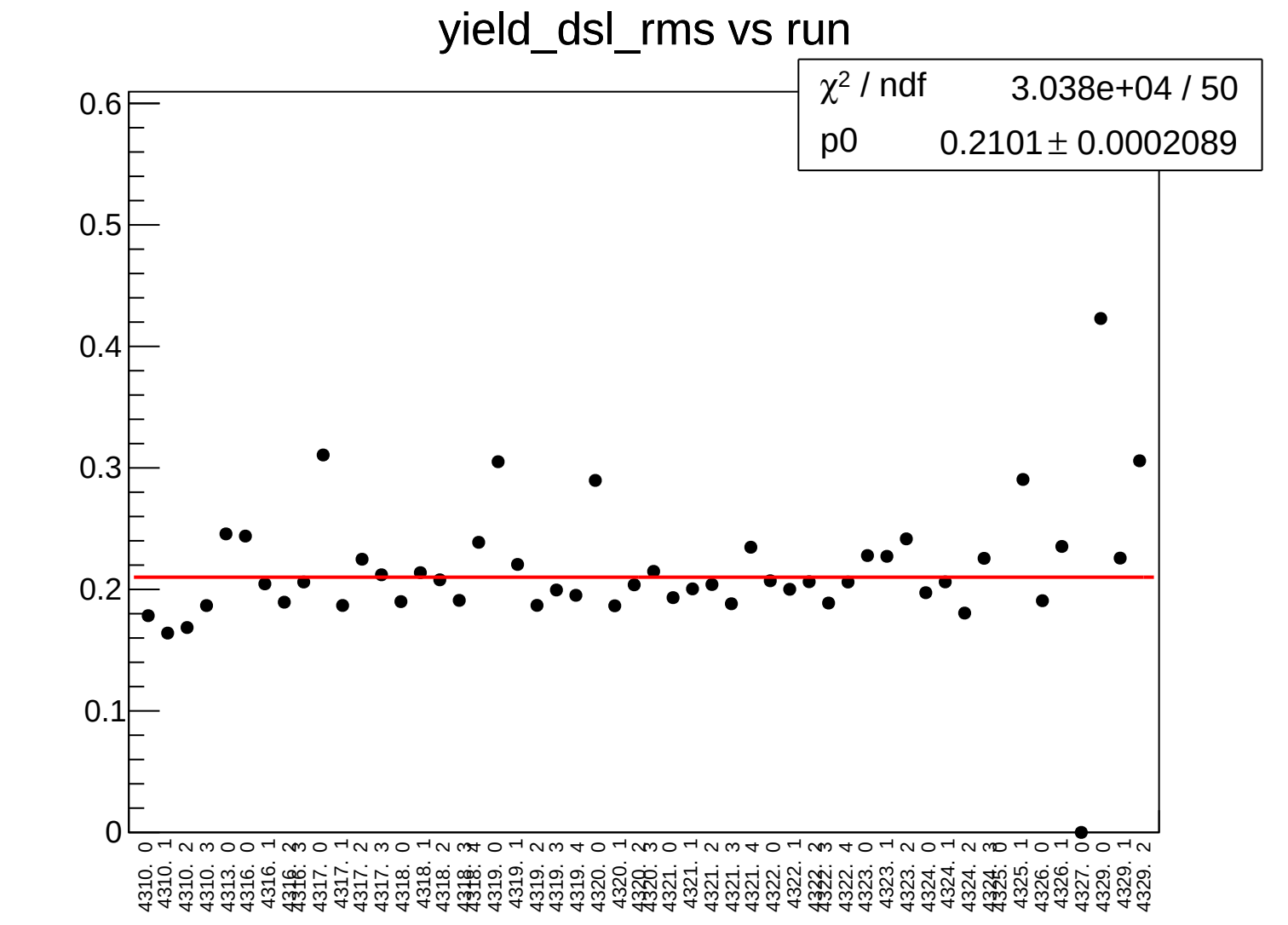

yield_usr_mean vs run
χ² / ndf 1.381e+06 / 50
p0 61.07 ± 0.0002492
60
50
40
30
20
10
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

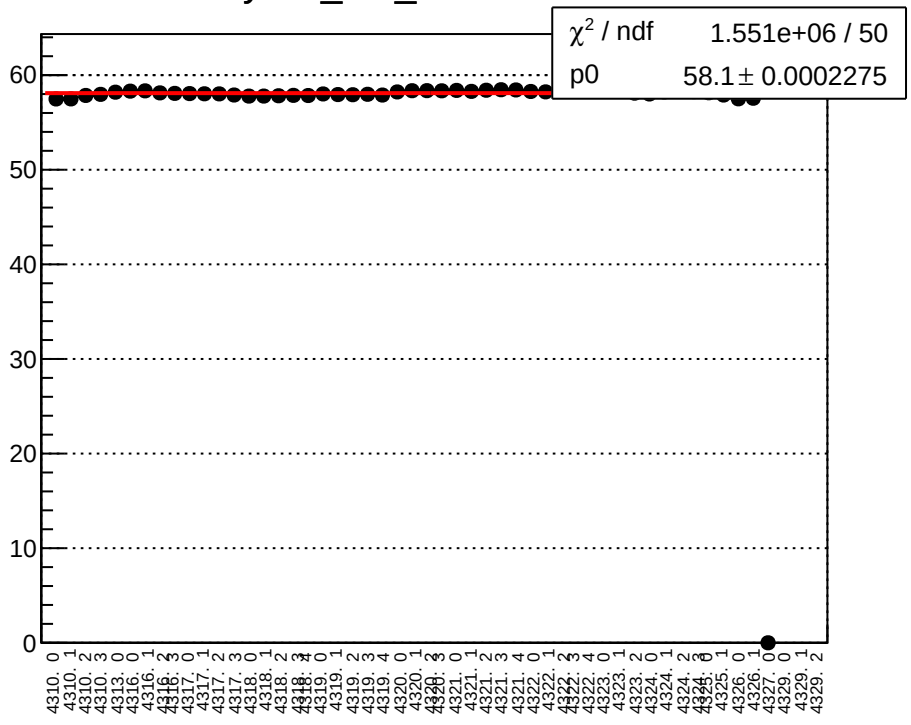

pull1D
Entries 52
Mean −1.805
Std Dev 2.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 2.532e+04 / 50
p0 0.1776 ± 0.0001762
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_dsl_mean vs run
χ² / ndf 6.804e+05 / 50
p0 62.82 ± 0.0002954
70
60
50
40
30
20
10
0


pull1D
Entries 52
Mean 0.2086
Std Dev 3.647
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 3.038e+04 / 50
p0 0.2101 ± 0.0002089
0.6
0.5
0.4
0.3
0.2
0.1
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_dsr_mean vs run
χ² / ndf 1.551e+06 / 50
p0 58.1 ± 0.0002275
60
50
40
30
20
10
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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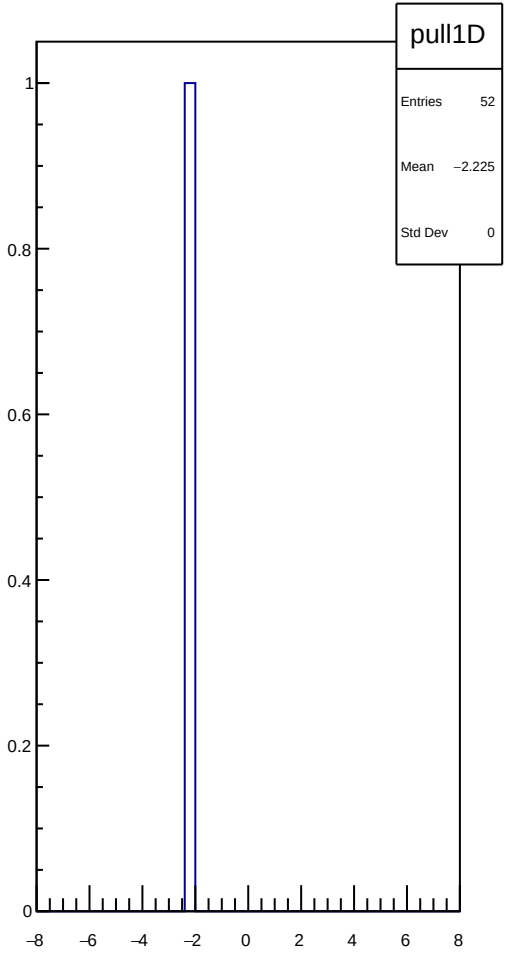
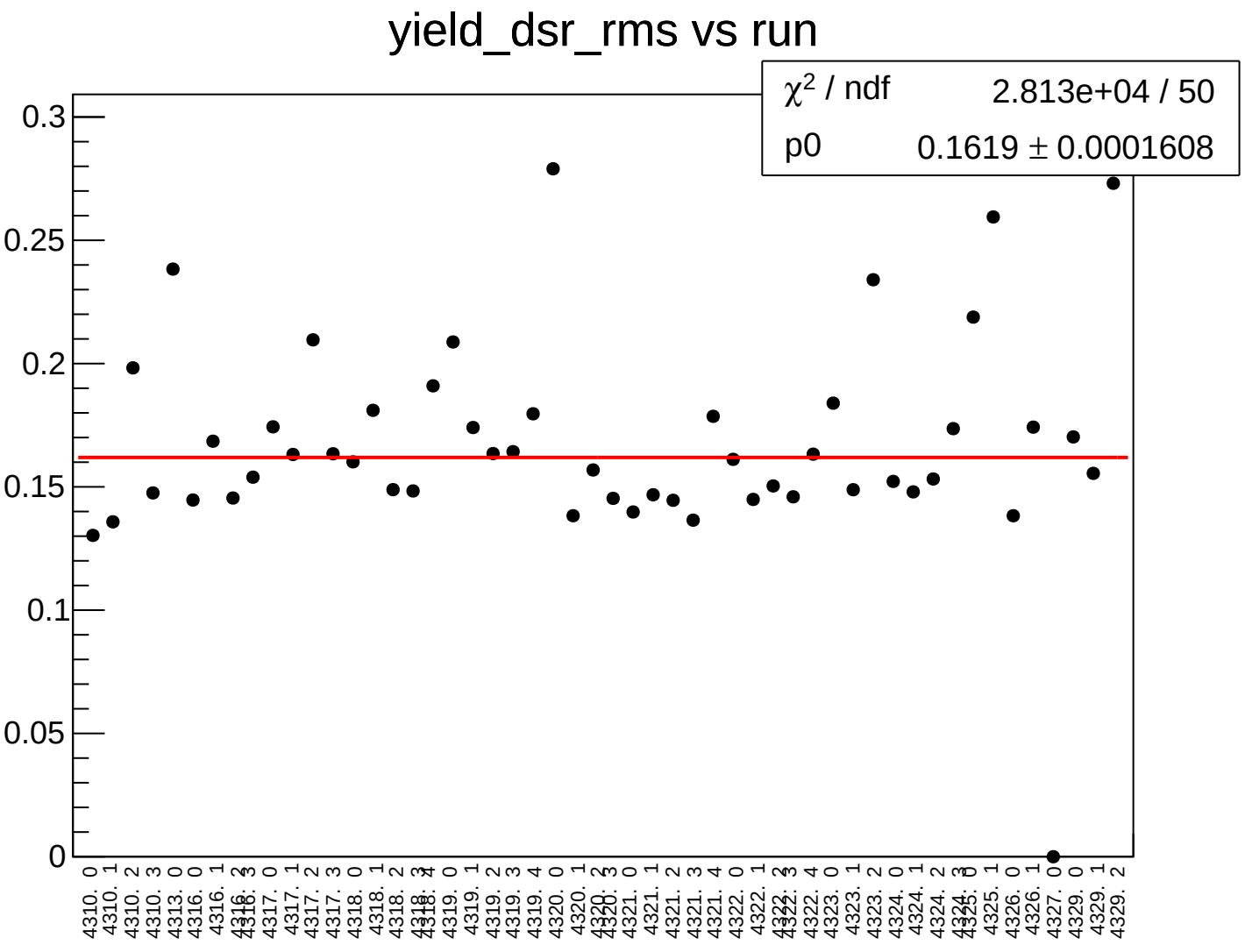
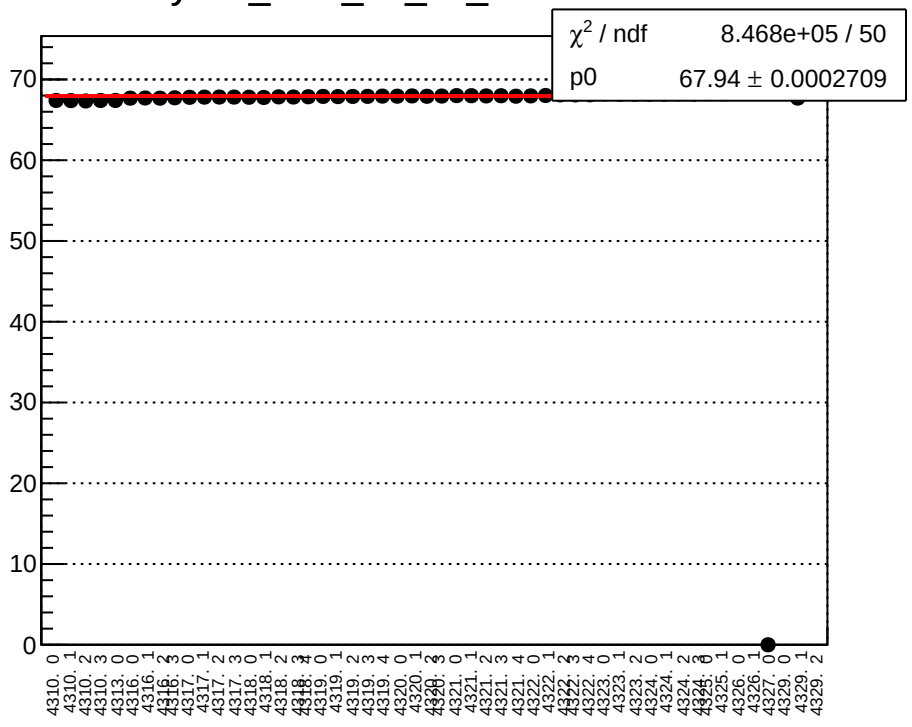
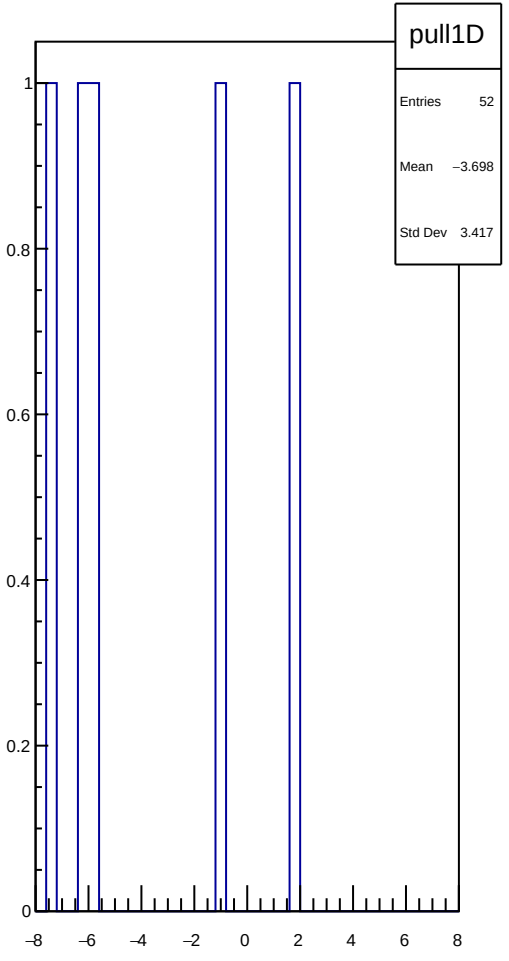
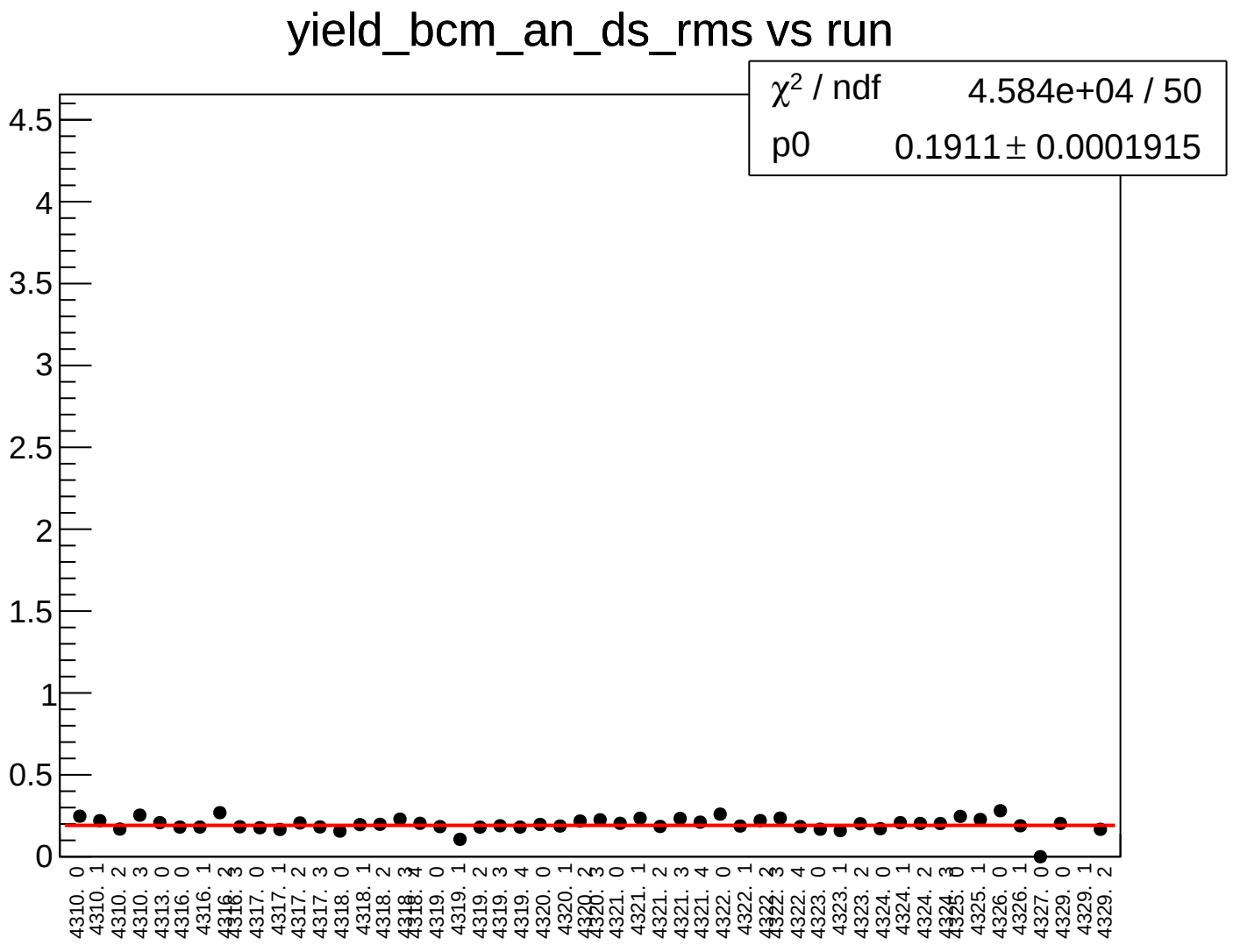
4329. 1
4329. 2

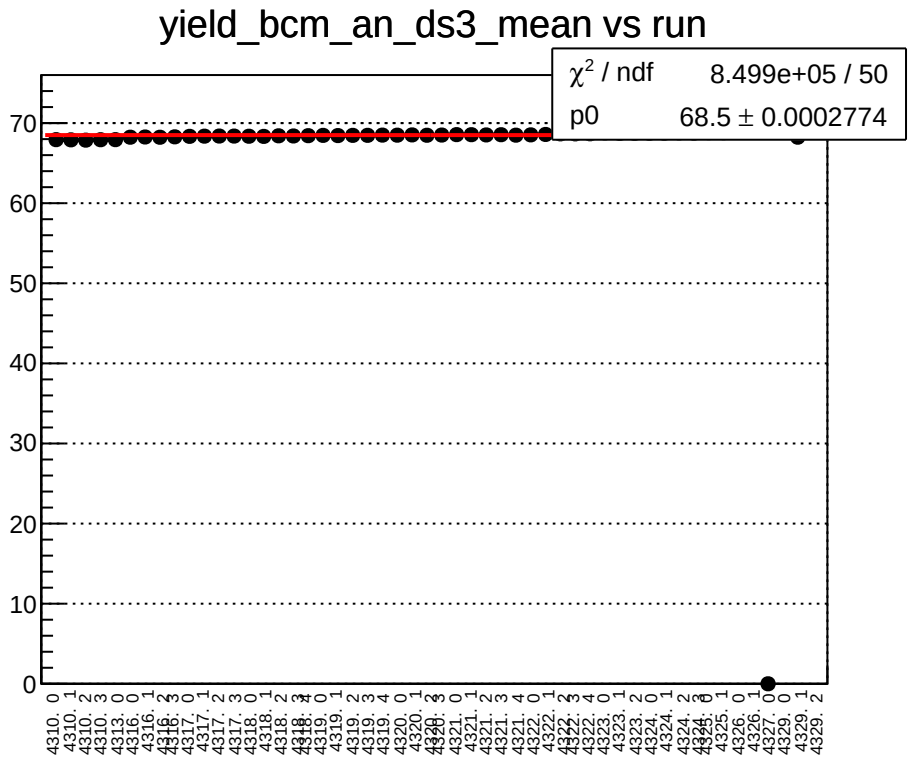

pull1D
Entries 52
Mean −2.225
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

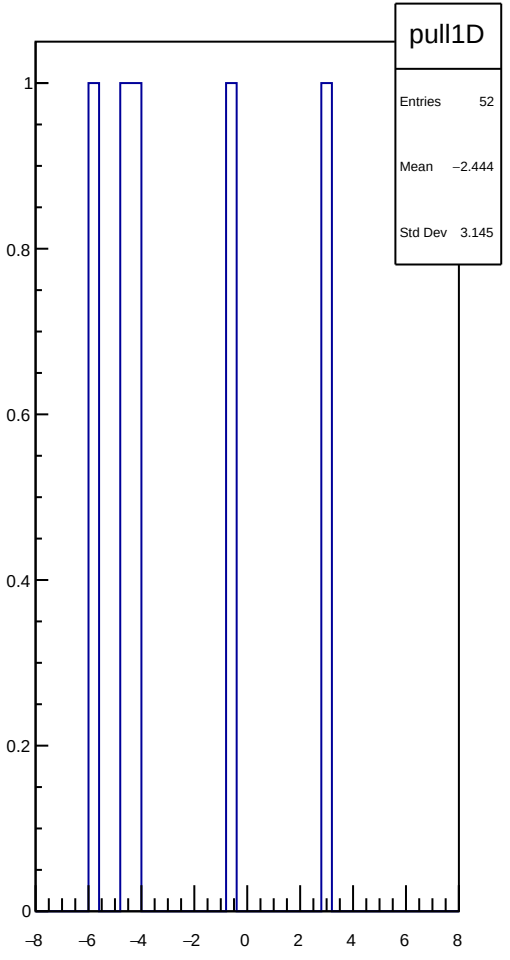

yield_dsr_rms vs run
χ² / ndf 2.813e+04 / 50
p0 0.1619 ± 0.0001608
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

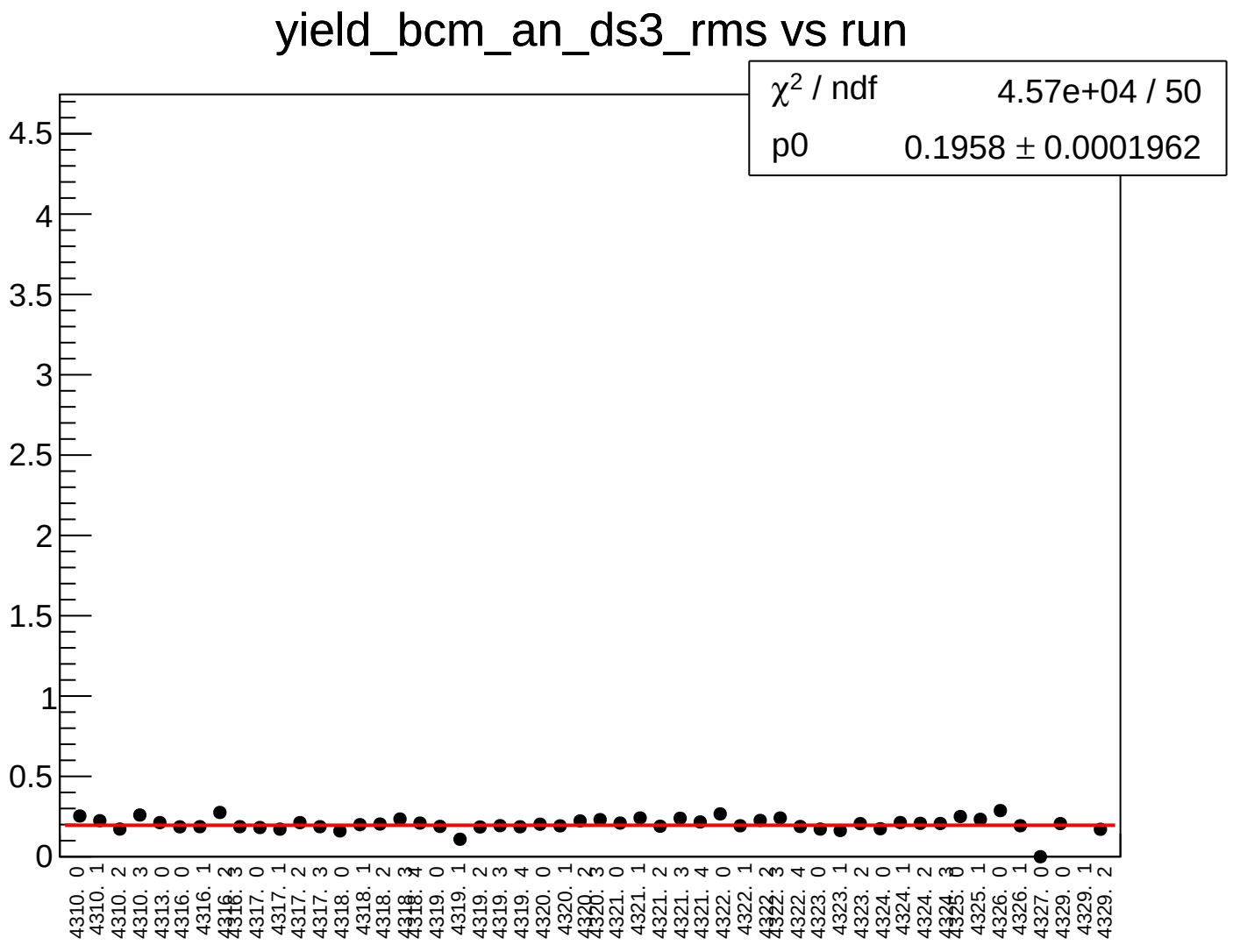

yield_bcm_an_ds_mean vs run
χ² / ndf 8.468e+05 / 50
p0 67.94 ± 0.0002709
70
60
50
40
30
20
10
0

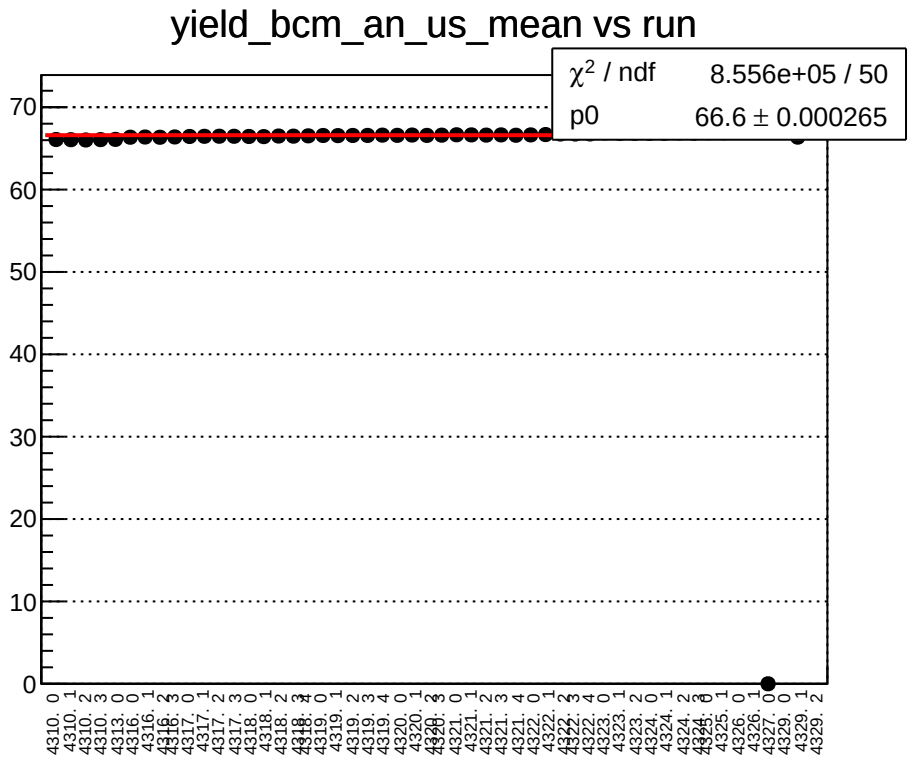

pull1D
Entries 52
Mean −3.698
Std Dev 3.417
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

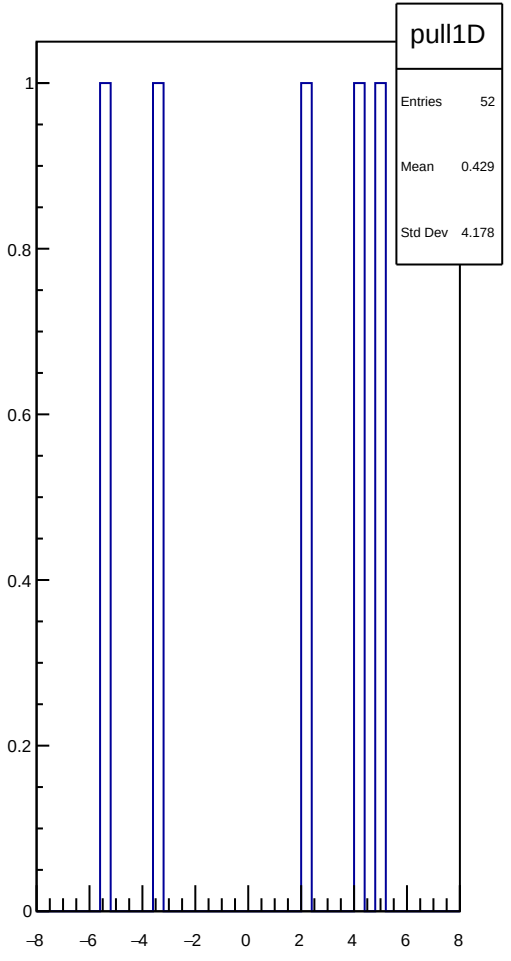

yield_bcm_an_ds_rms vs run
χ² / ndf 4.584e+04 / 50
p0 0.1911 ± 0.0001915
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

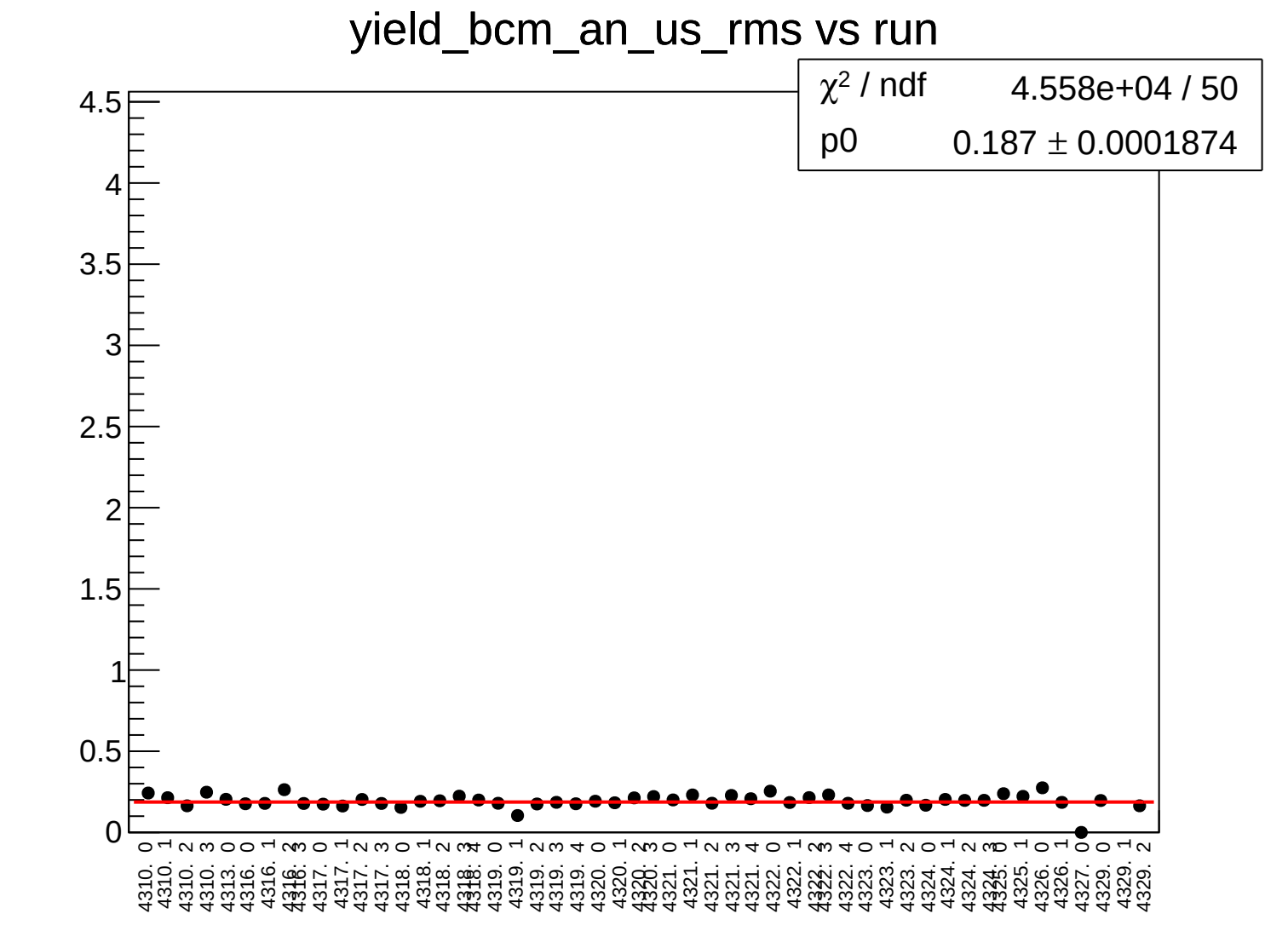

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.499e+05 / 50
p0 68.5 ± 0.0002774
70
60
50
40
30
20
10
0

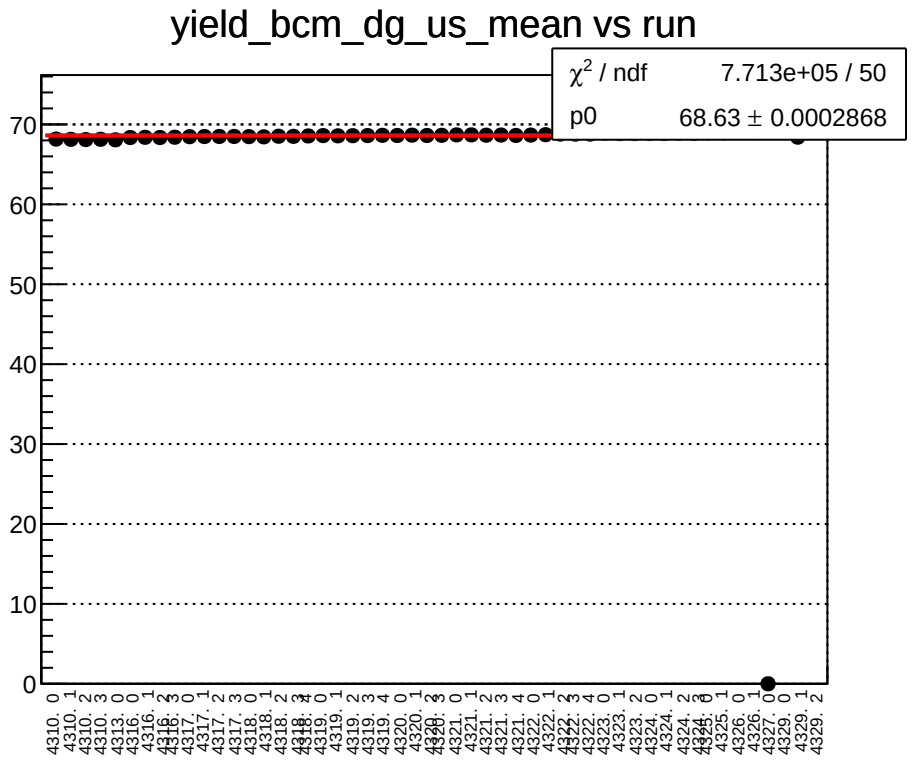

pull1D
Entries 52
Mean −2.444
Std Dev 3.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

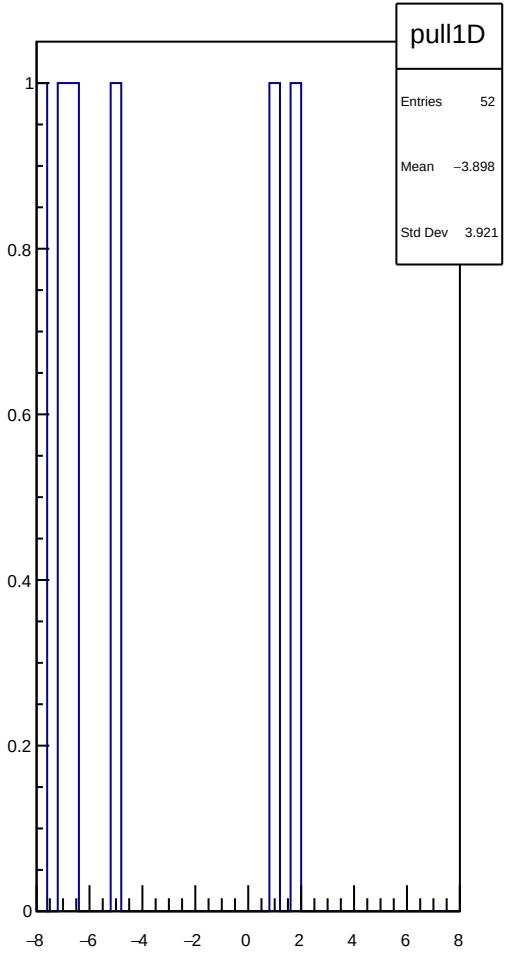

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.57e+04 / 50
p0 0.1958 ± 0.0001962
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

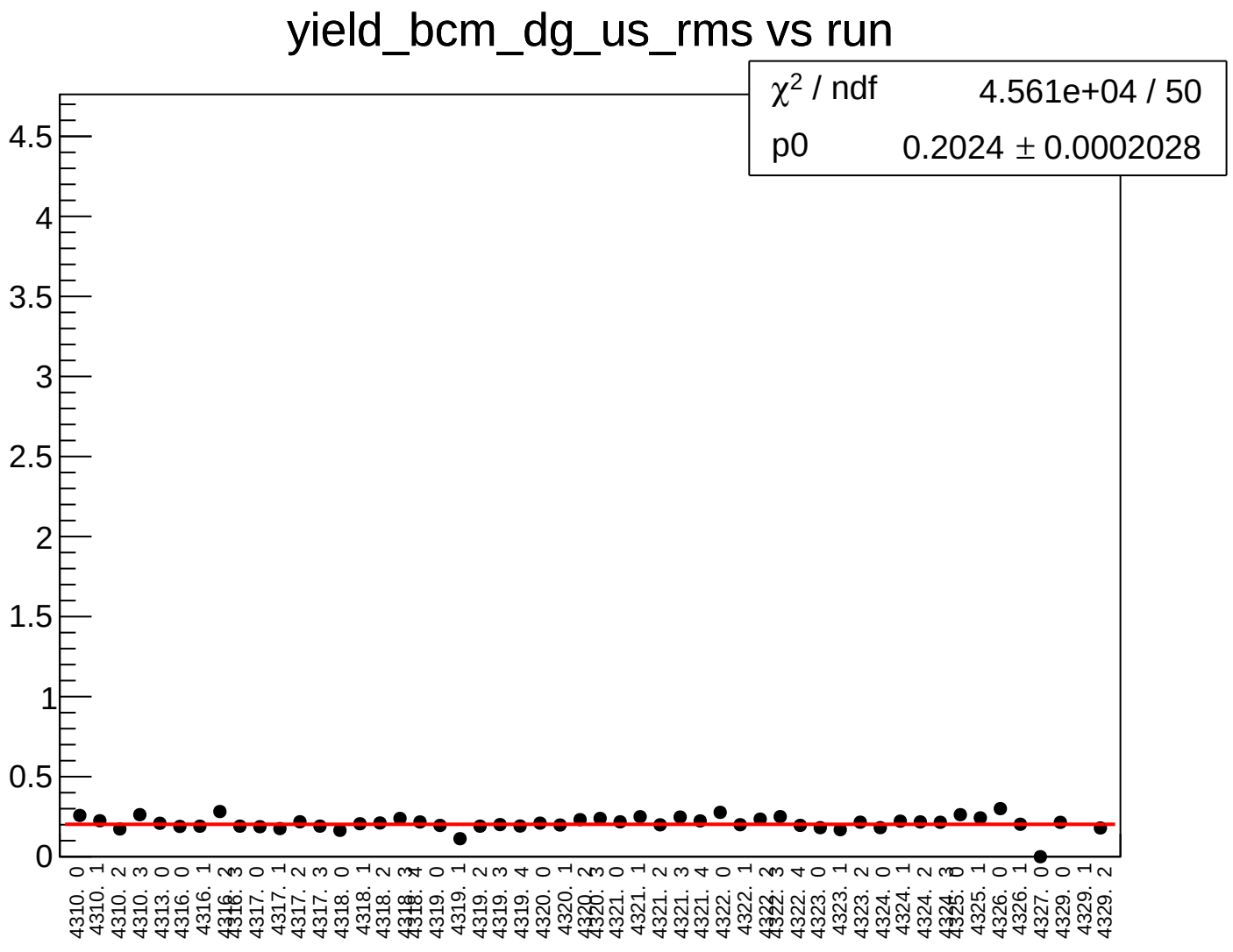

yield_bcm_an_us_mean vs run
χ² / ndf 8.556e+05 / 50
p0 66.6 ± 0.000265
70
60
50
40
30
20
10
0

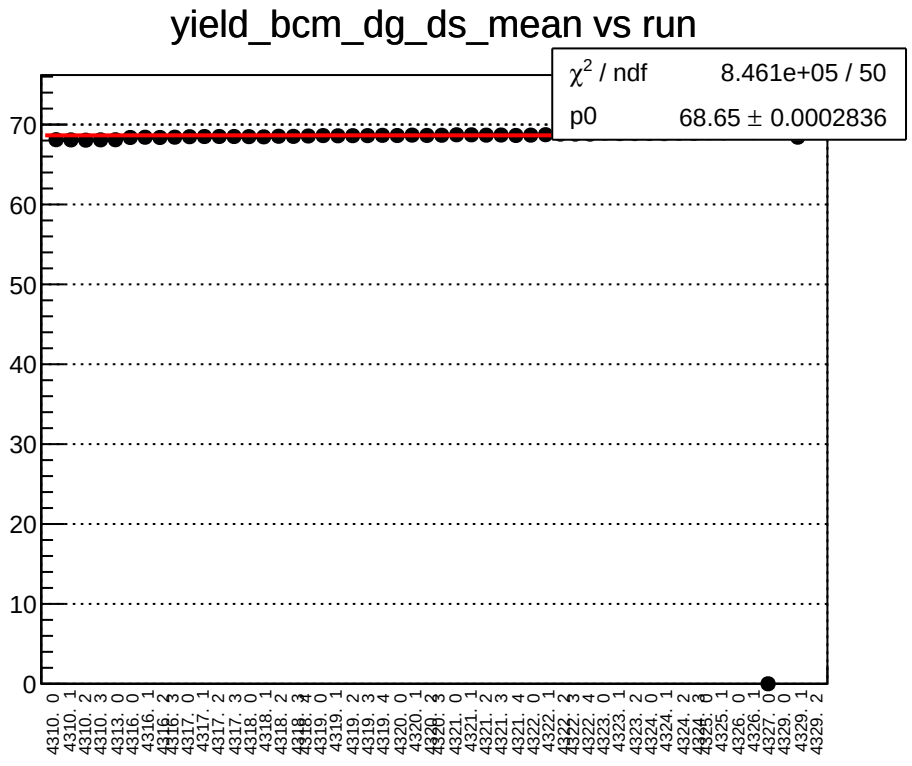

pull1D
Entries 52
Mean 0.429
Std Dev 4.178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

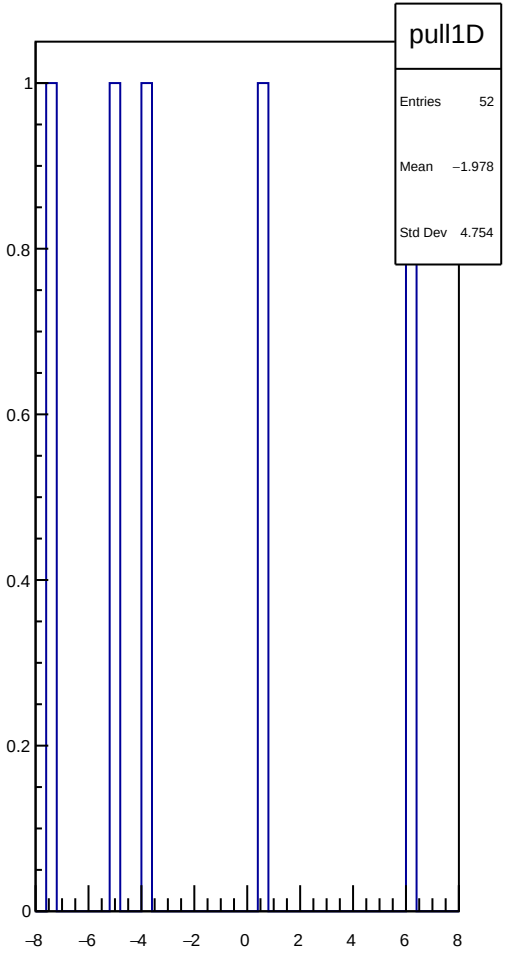

yield_bcm_an_us_rms vs run
χ² / ndf 4.558e+04 / 50
p0 0.187 ± 0.0001874
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

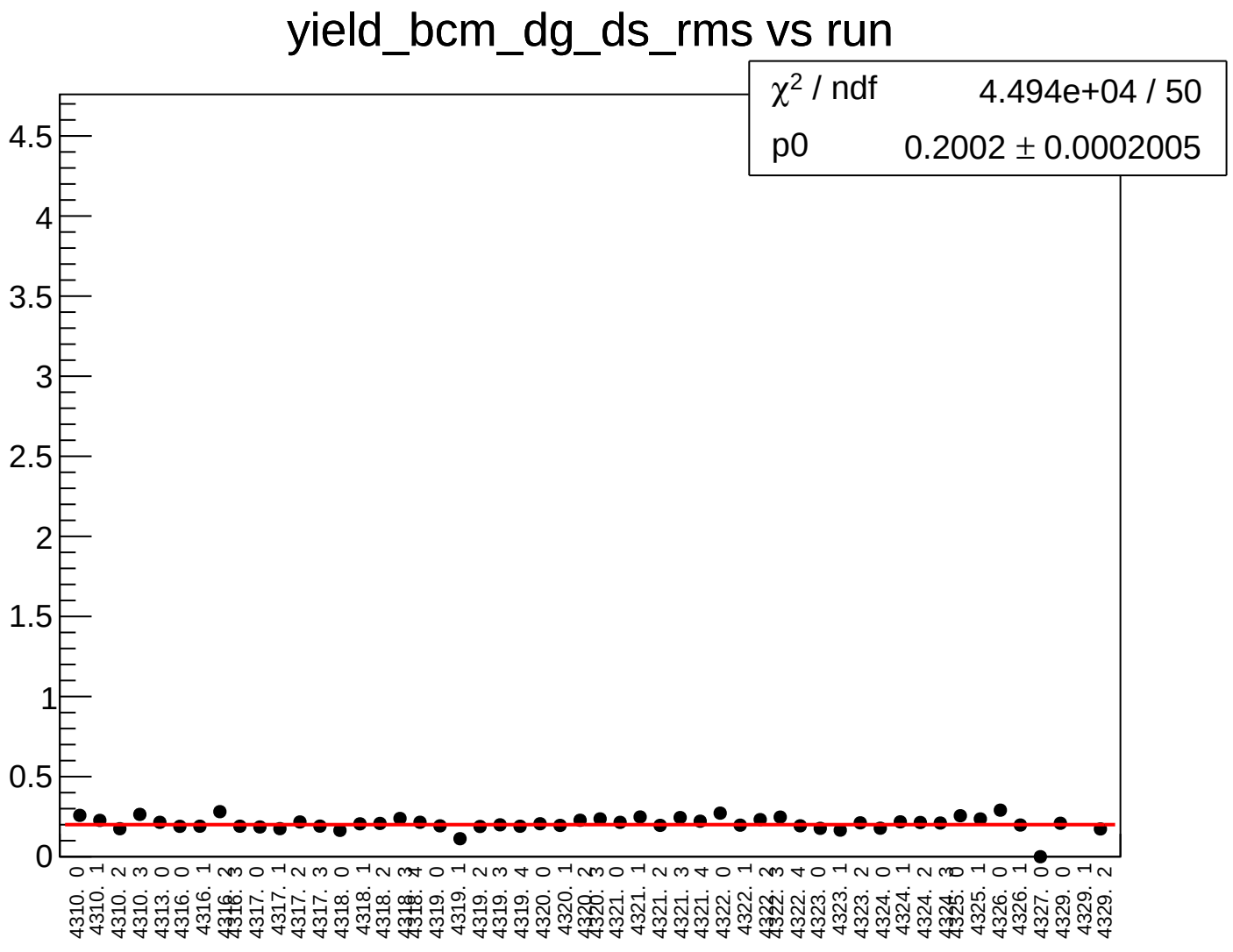

yield_bcm_dg_us_mean vs run
χ² / ndf 7.713e+05 / 50
p0 68.63 ± 0.0002868
70
60
50
40
30
20
10
0

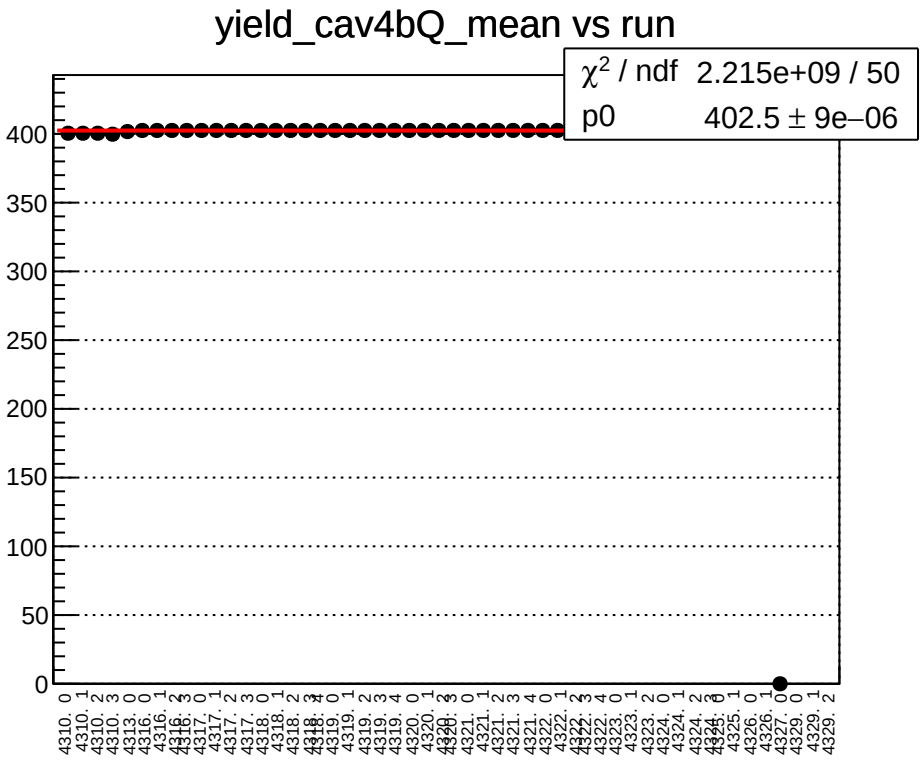

pull1D
Entries 52
Mean −3.898
Std Dev 3.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

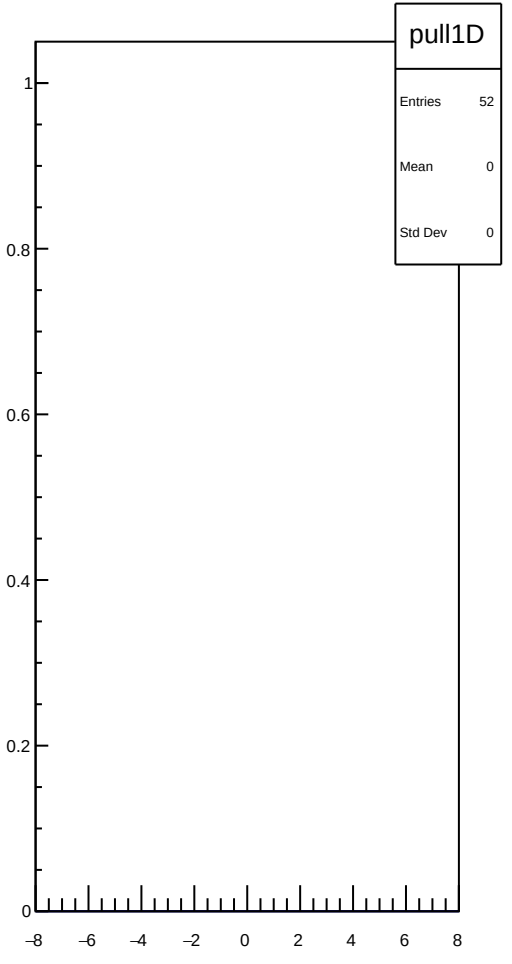

yield_bcm_dg_us_rms vs run
χ² / ndf 4.561e+04 / 50
p0 0.2024 ± 0.0002028
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

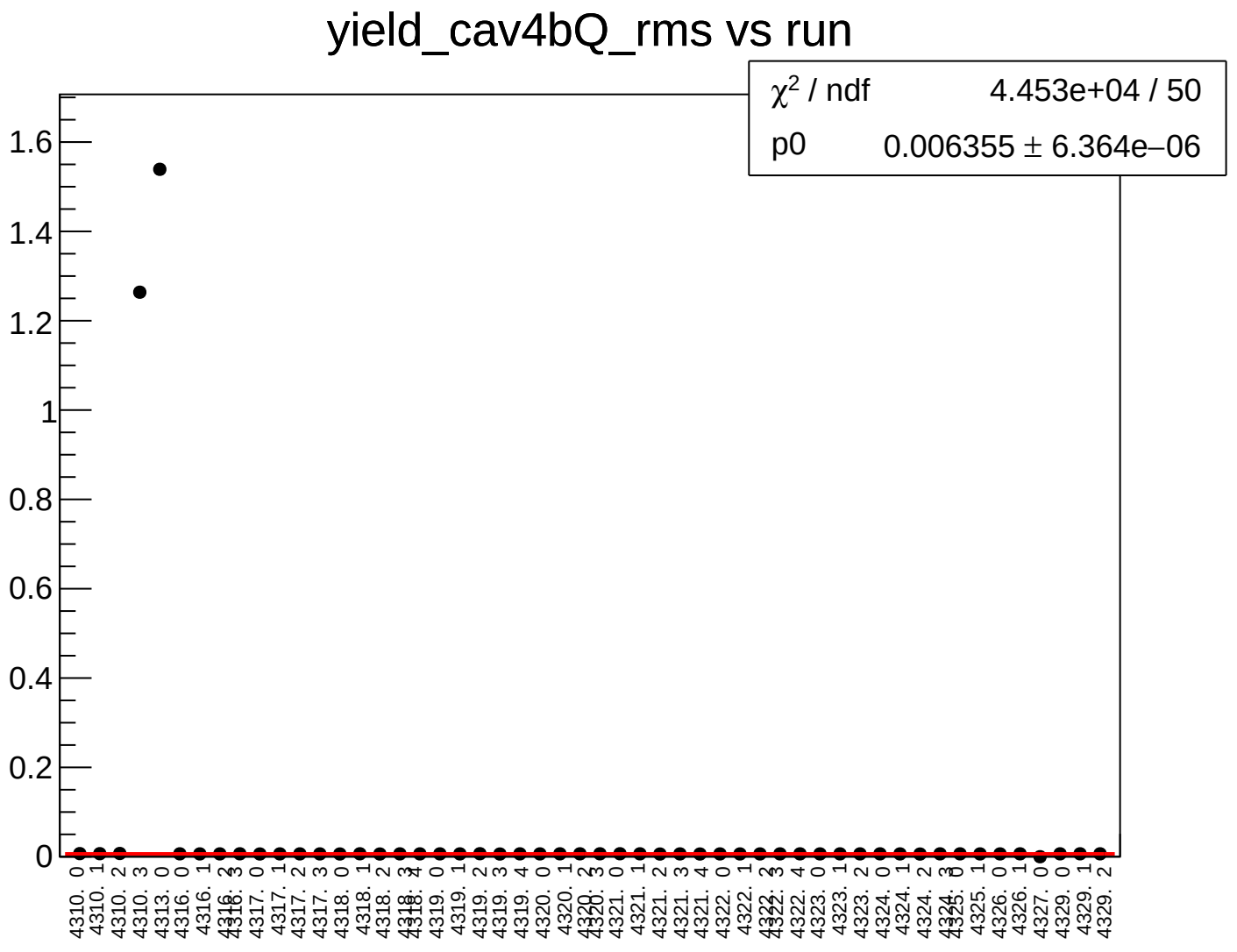

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.461e+05 / 50
p0 68.65 ± 0.0002836
70
60
50
40
30
20
10
0


pull1D
Entries 52
Mean −1.978
Std Dev 4.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_ds_rms vs run
χ² / ndf 4.494e+04 / 50
p0 0.2002 ± 0.0002005
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_cav4bQ_mean vs run
χ² / ndf 2.215e+09 / 50
p0 402.5 ± 9e−06
400
350
300
250
200
150
100
50
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bQ_rms vs run
χ² / ndf 4.453e+04 / 50
p0 0.006355 ± 6.364e−06
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
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4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
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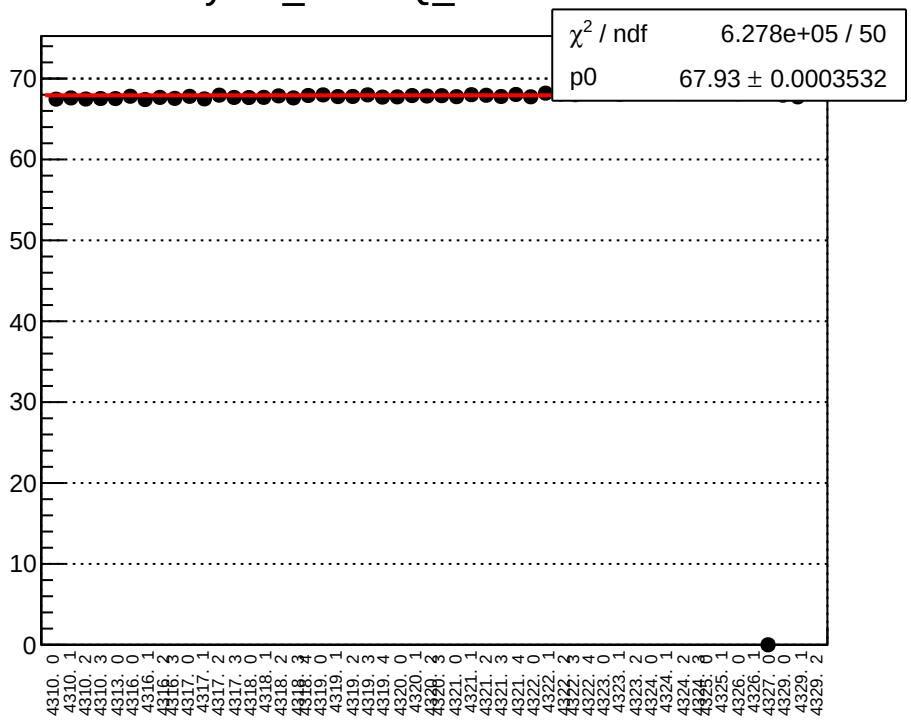
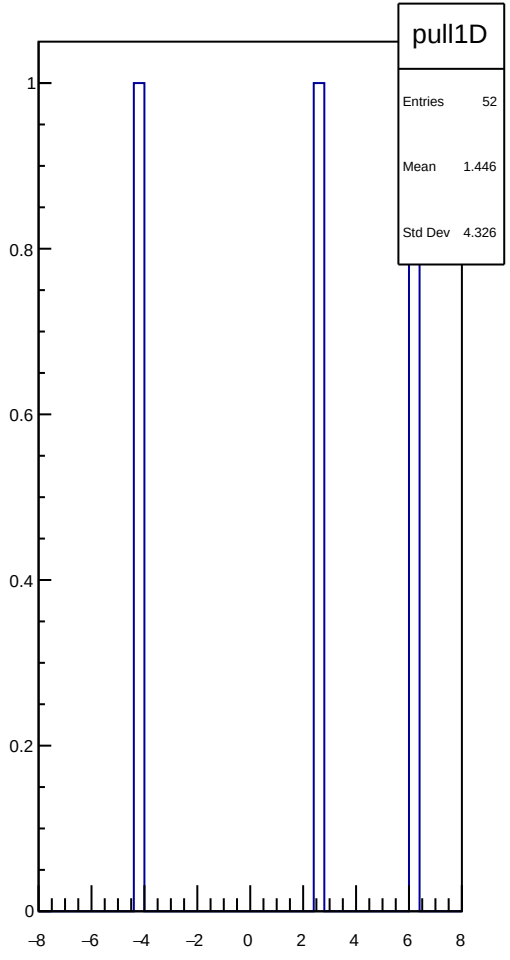
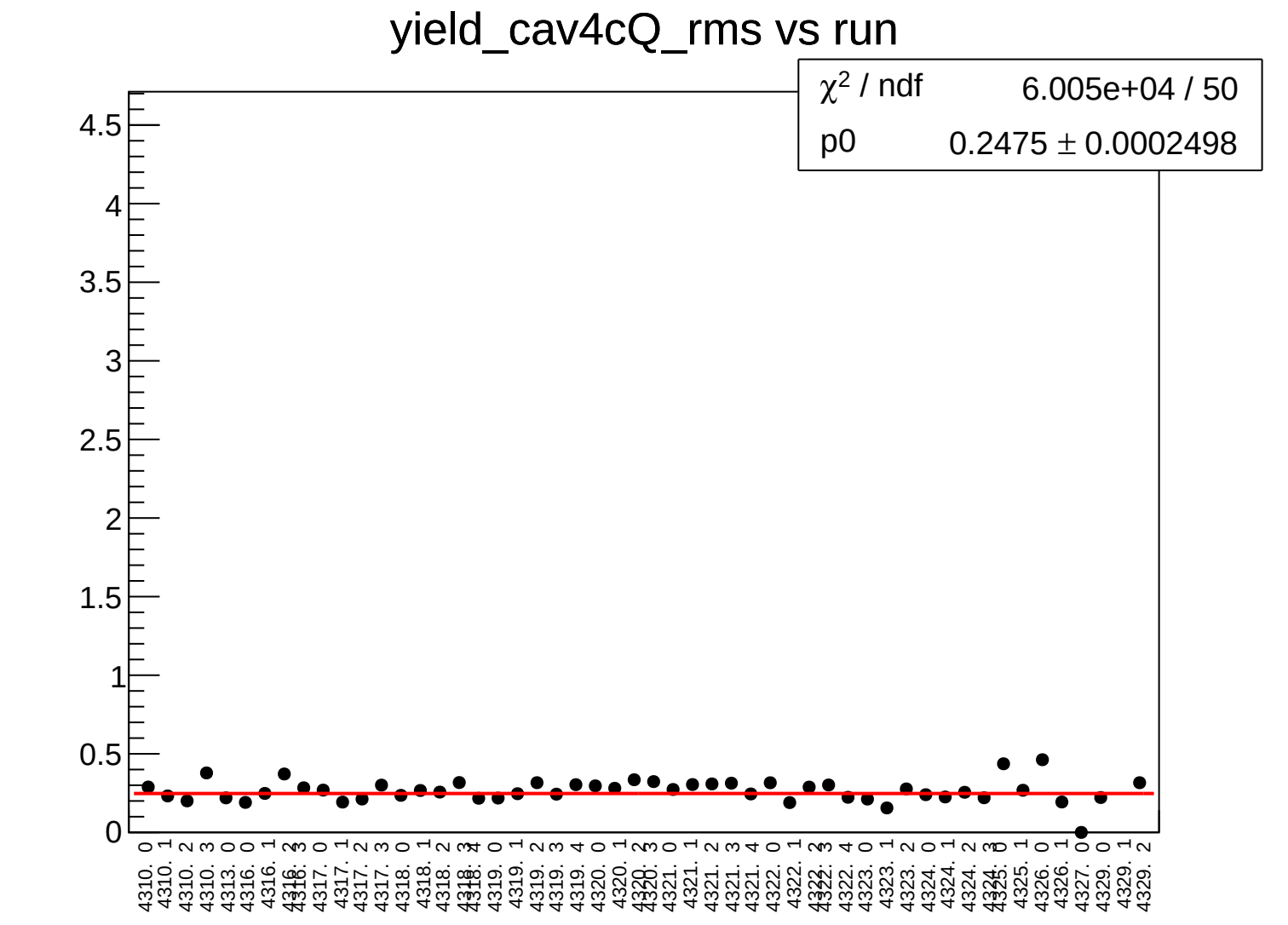
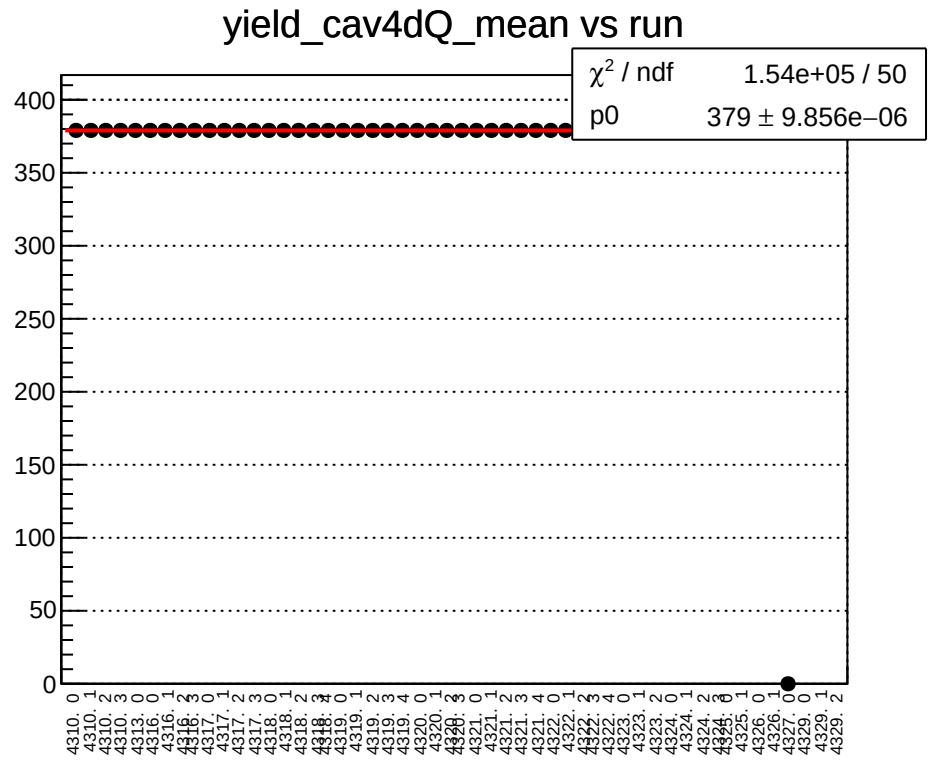
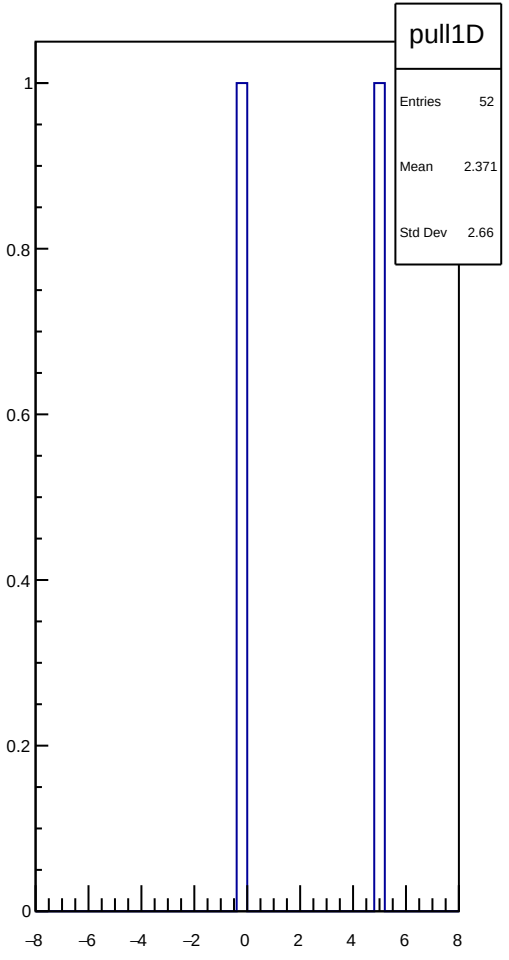
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

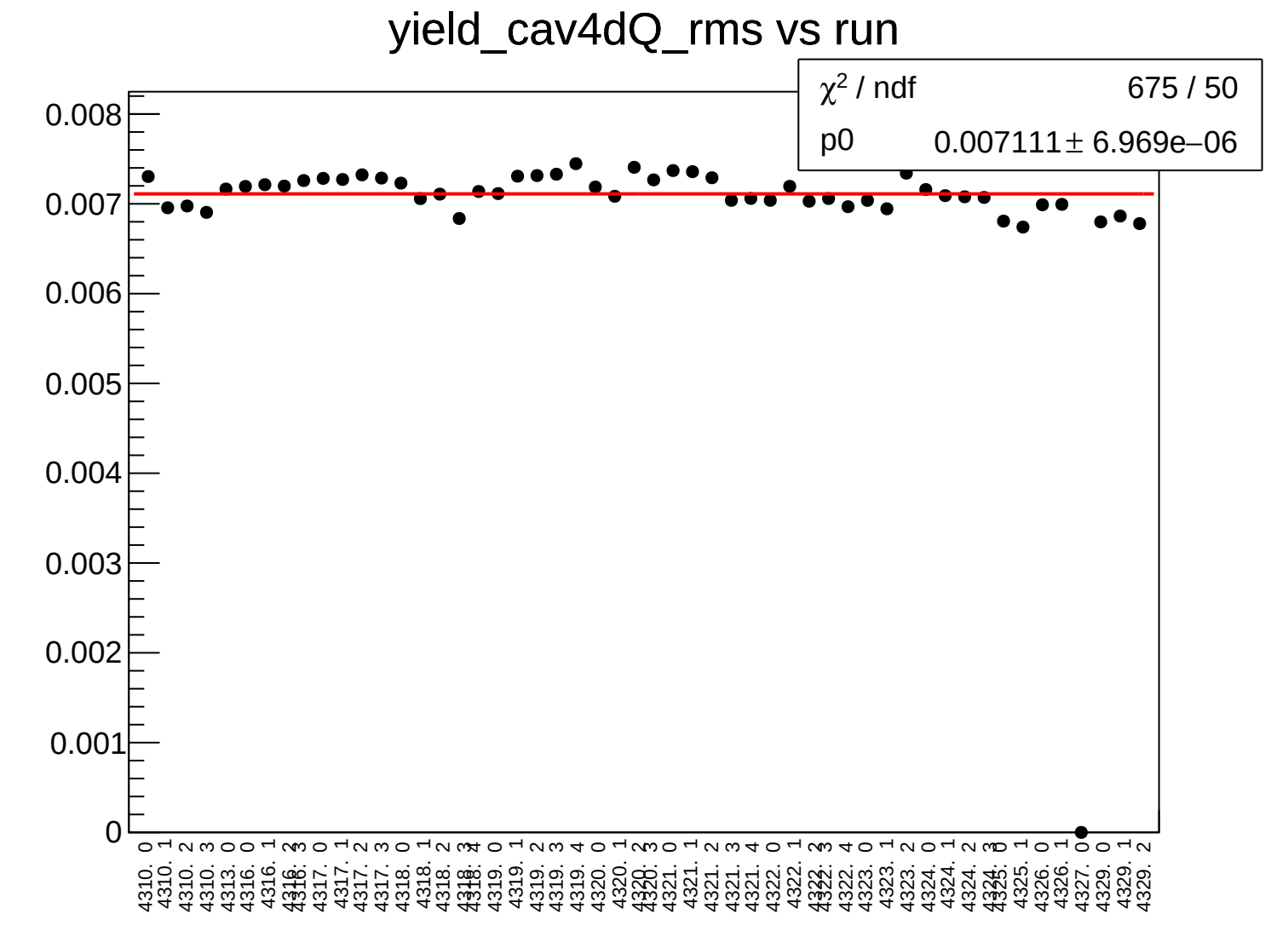

yield_cav4cQ_mean vs run
χ² / ndf 6.278e+05 / 50
p0 67.93 ± 0.0003532
70
60
50
40
30
20
10
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4326. 1
4327. 0
4329. 1
4329. 2

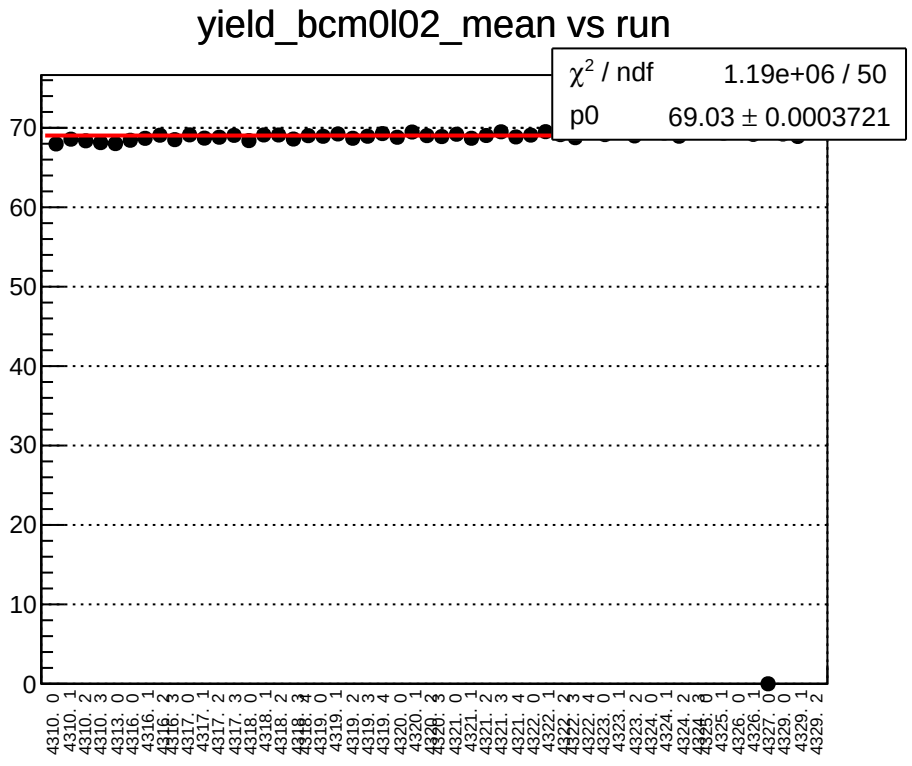

pull1D
Entries 52
Mean 1.446
Std Dev 4.326
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

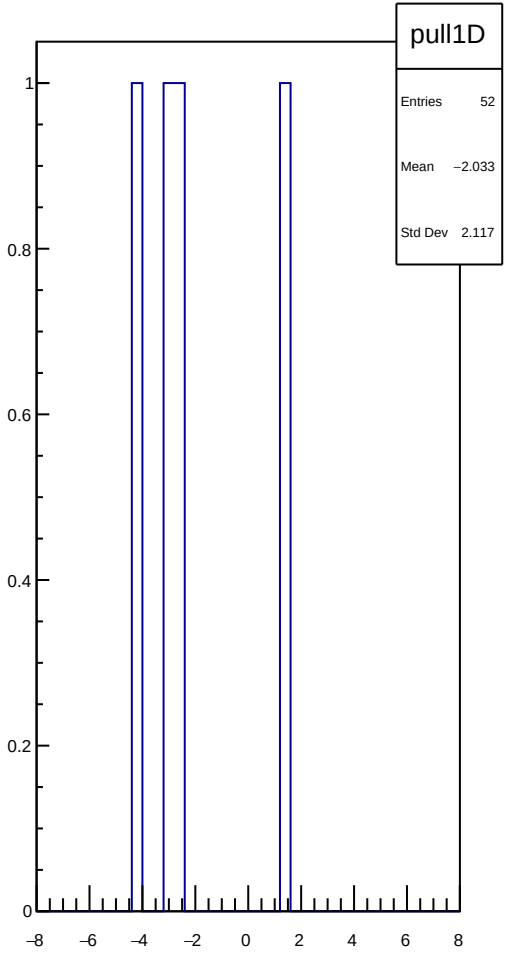

yield_cav4cQ_rms vs run
χ² / ndf 6.005e+04 / 50
p0 0.2475 ± 0.0002498
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

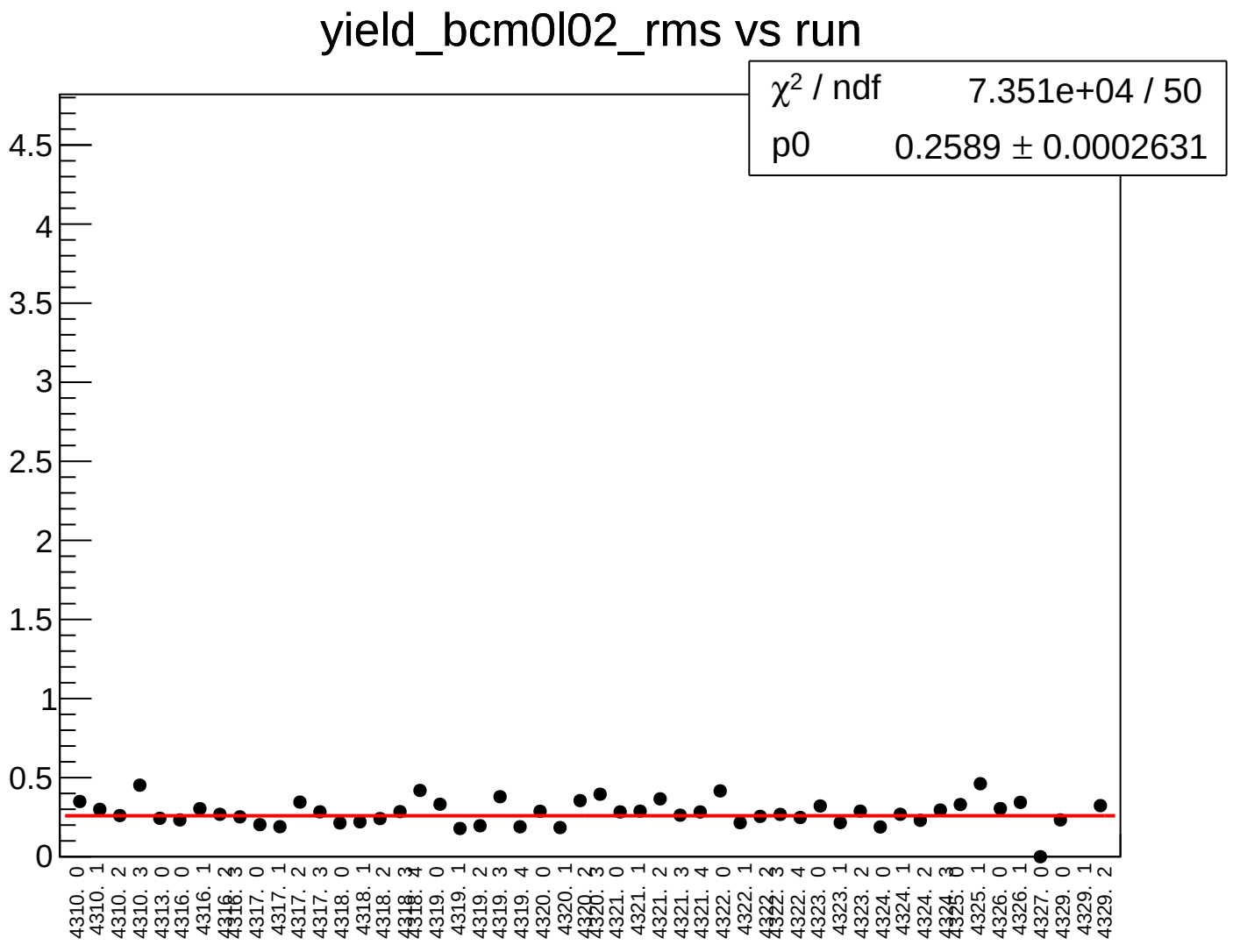

yield_cav4dQ_mean vs run
χ² / ndf 1.54e+05 / 50
p0 379 ± 9.856e−06
400
350
300
250
200
150
100
50
0

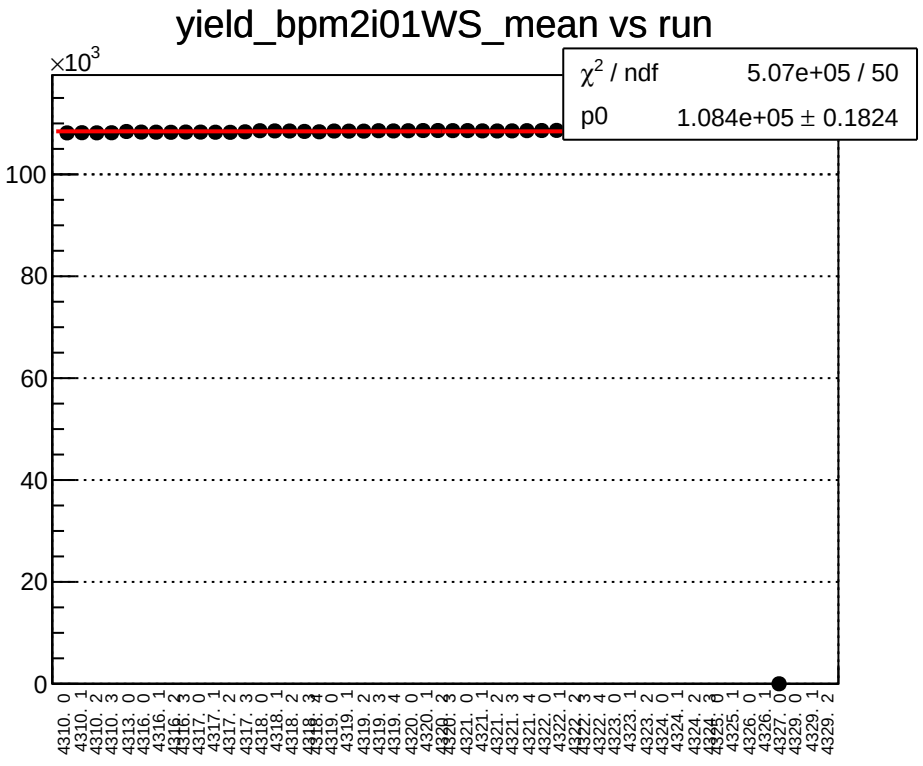

pull1D
Entries 52
Mean 2.371
Std Dev 2.66
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

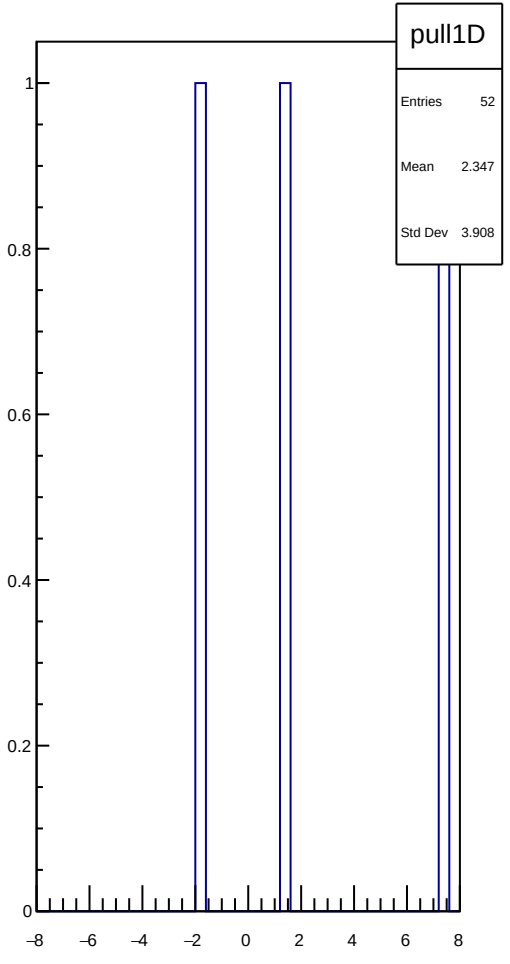

yield_cav4dQ_rms vs run
χ² / ndf 675 / 50
p0 0.007111 ± 6.969e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

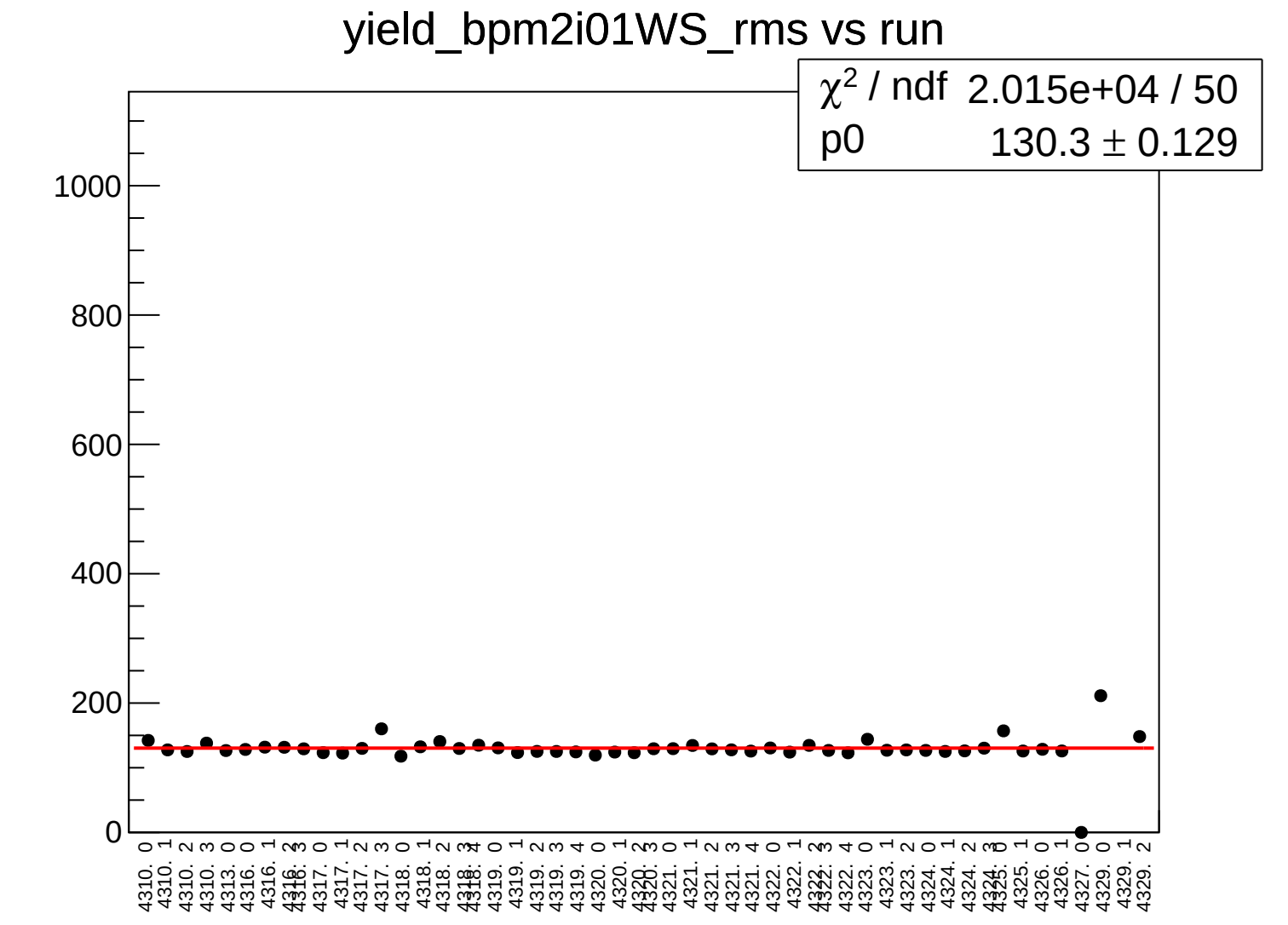

yield_bcm0l02_mean vs run
χ² / ndf 1.19e+06 / 50
p0 69.03 ± 0.0003721
70
60
50
40
30
20
10
0

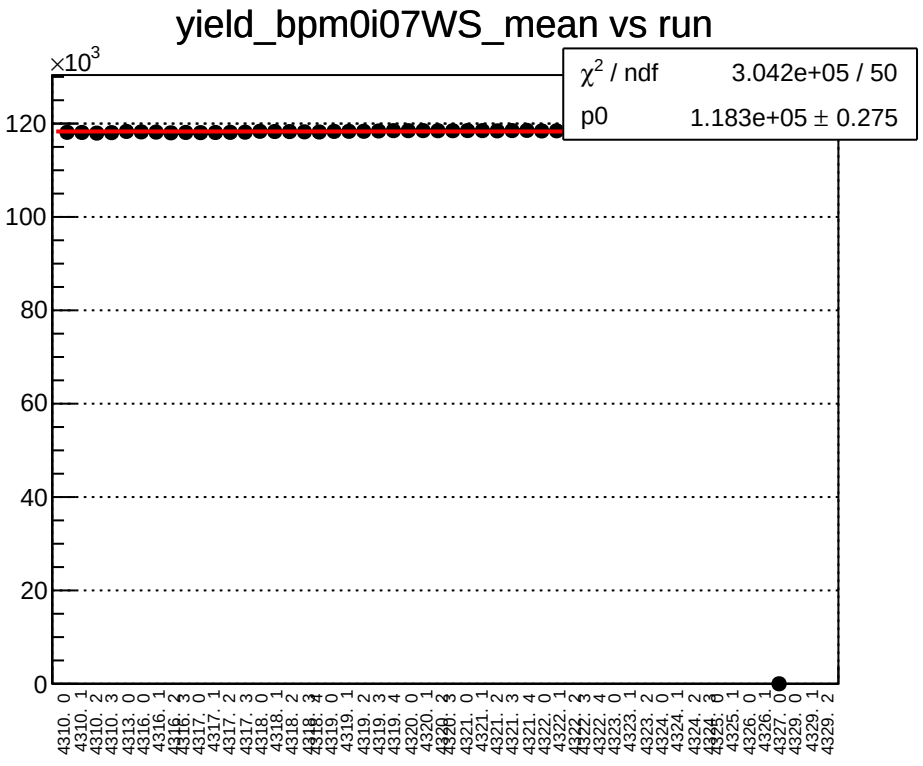

pull1D
Entries 52
Mean −2.033
Std Dev 2.117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

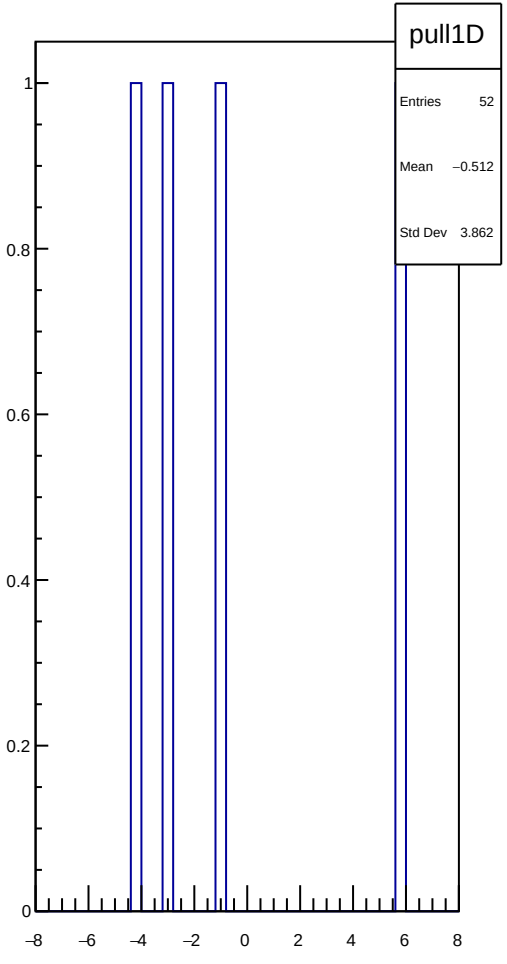

yield_bcm0l02_rms vs run
χ² / ndf 7.351e+04 / 50
p0 0.2589 ± 0.0002631
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

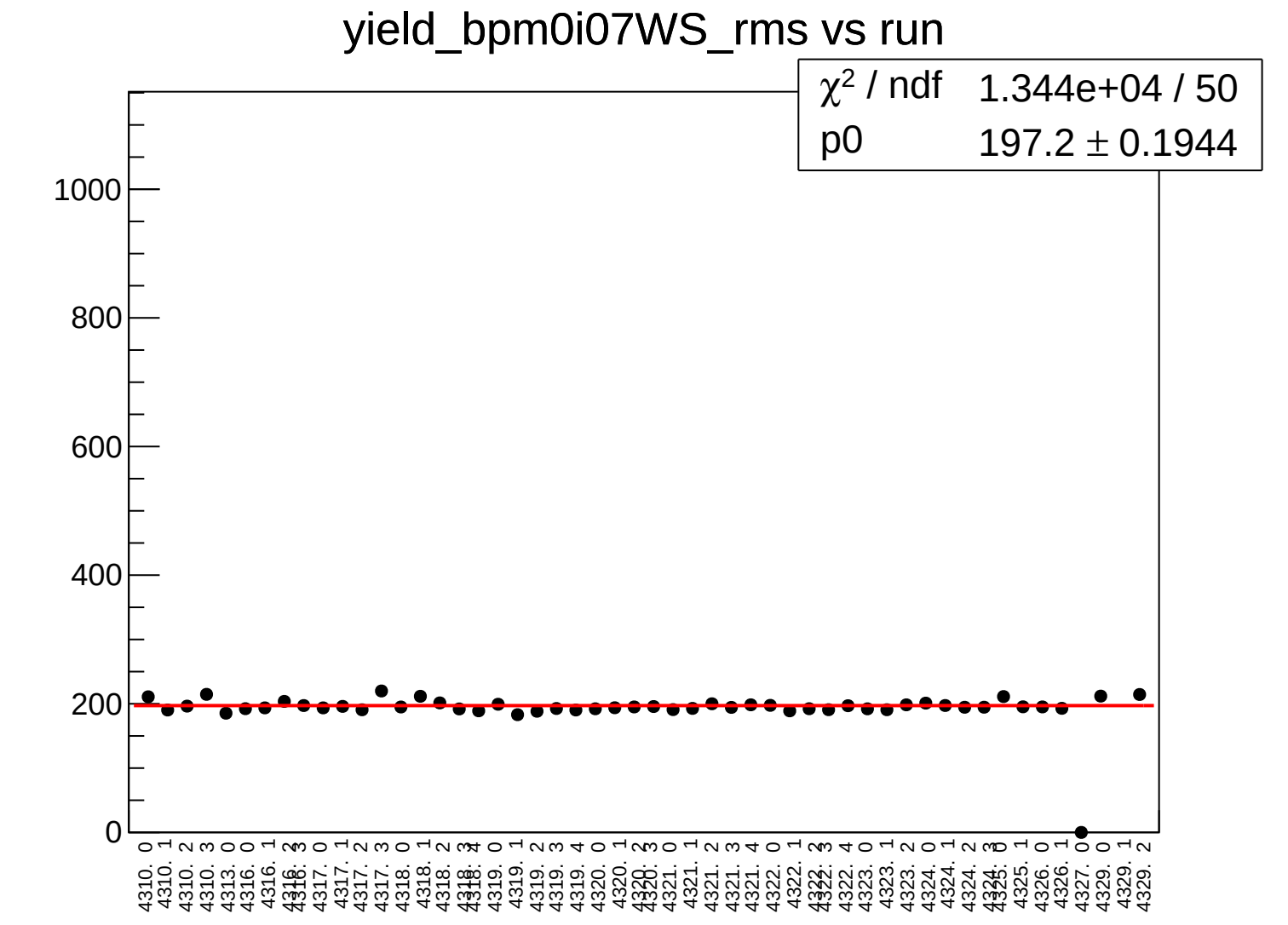

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.07e+05 / 50
p0 1.084e+05 ± 0.1824
100
80
60
40
20
0

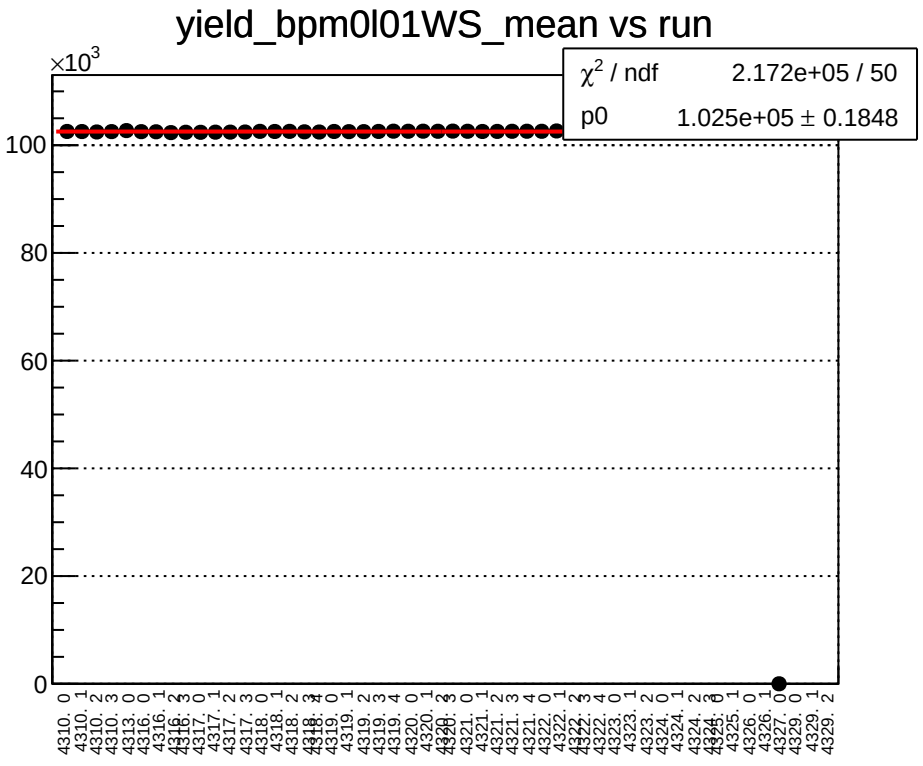

pull1D
Entries 52
Mean 2.347
Std Dev 3.908
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

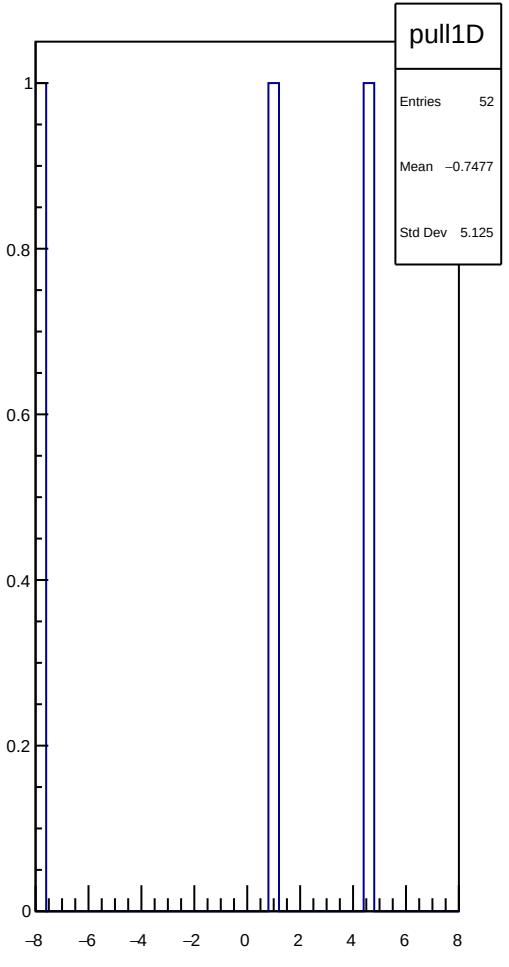

yield_bpm2i01WS_rms vs run
χ² / ndf 2.015e+04 / 50
p0 130.3 ± 0.129
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

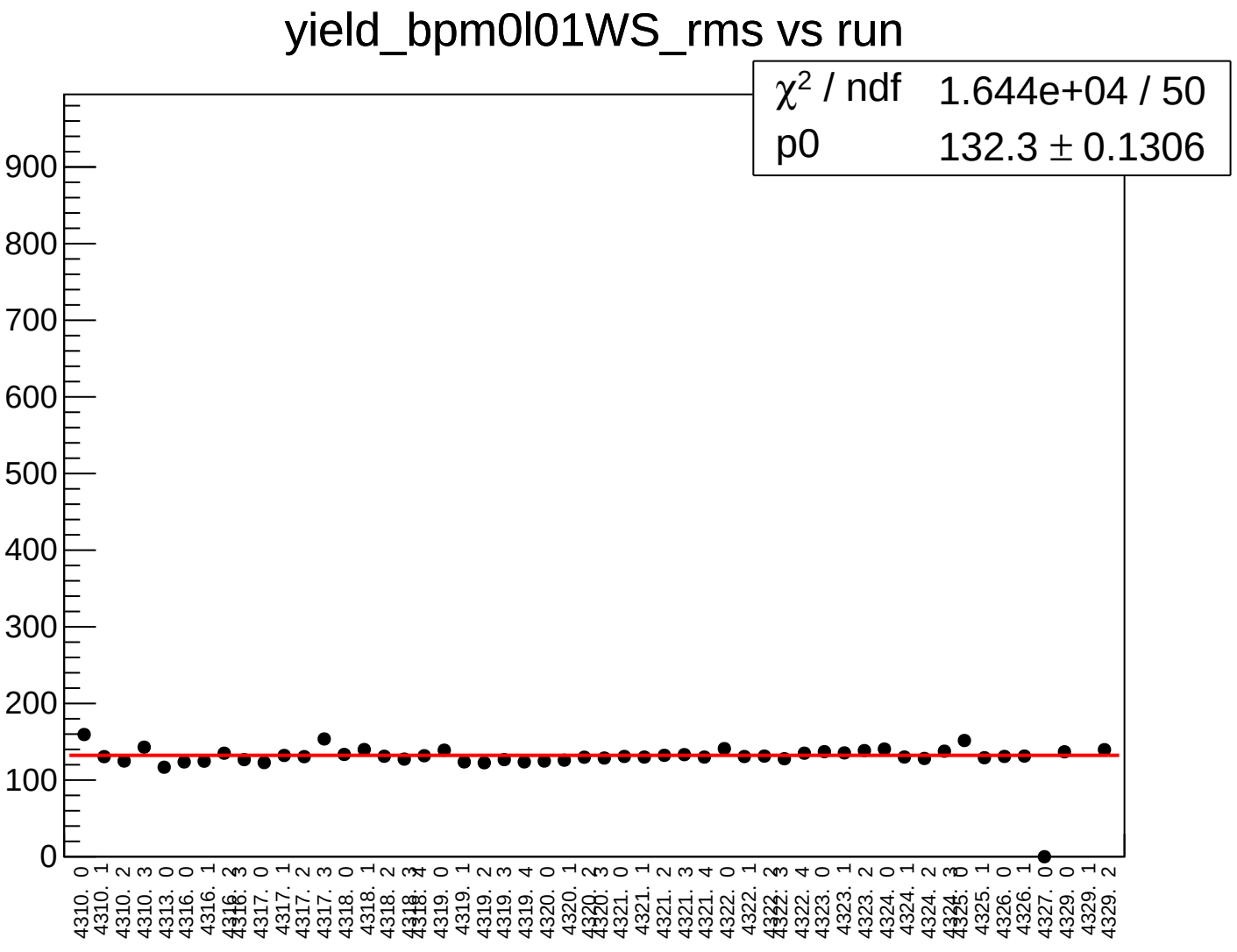

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.042e+05 / 50
p0 1.183e+05 ± 0.275
120
100
80
60
40
20
0

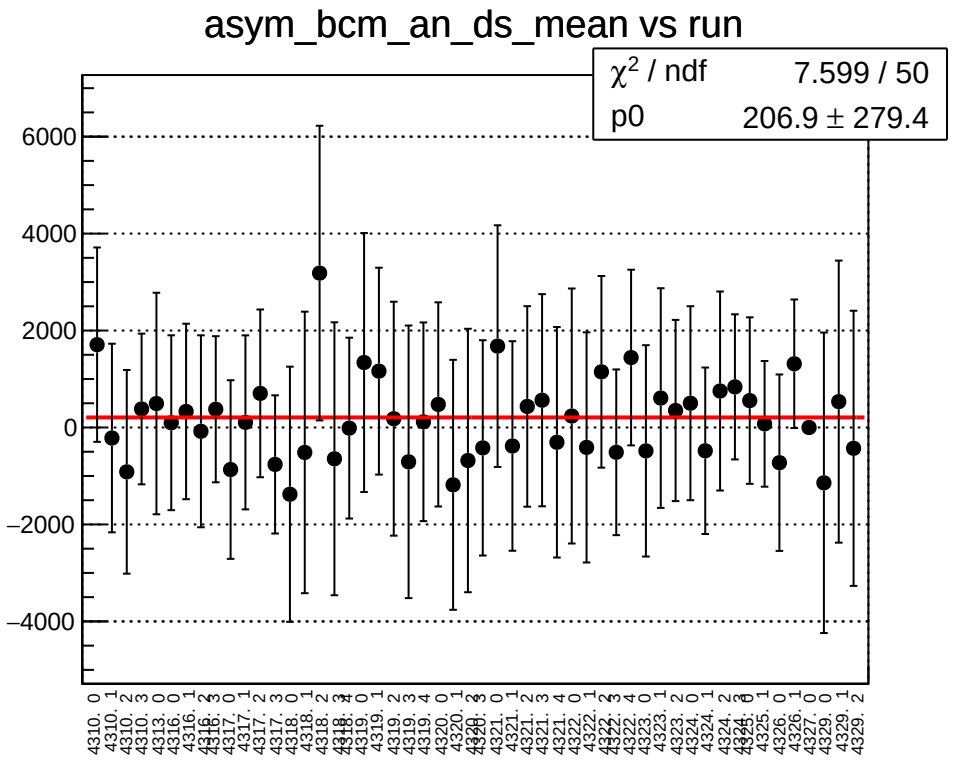

pull1D
Entries 52
Mean −0.512
Std Dev 3.862
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

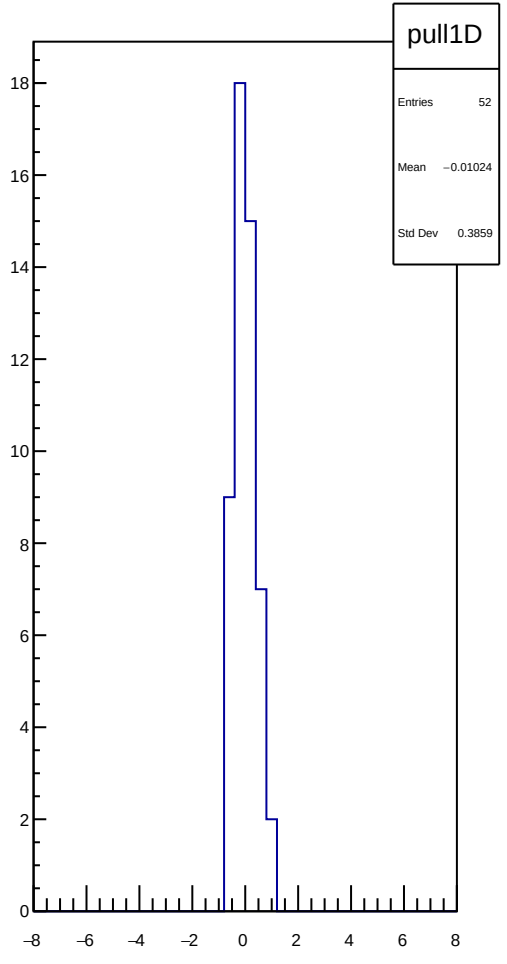

yield_bpm0i07WS_rms vs run
χ² / ndf 1.344e+04 / 50
p0 197.2 ± 0.1944
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

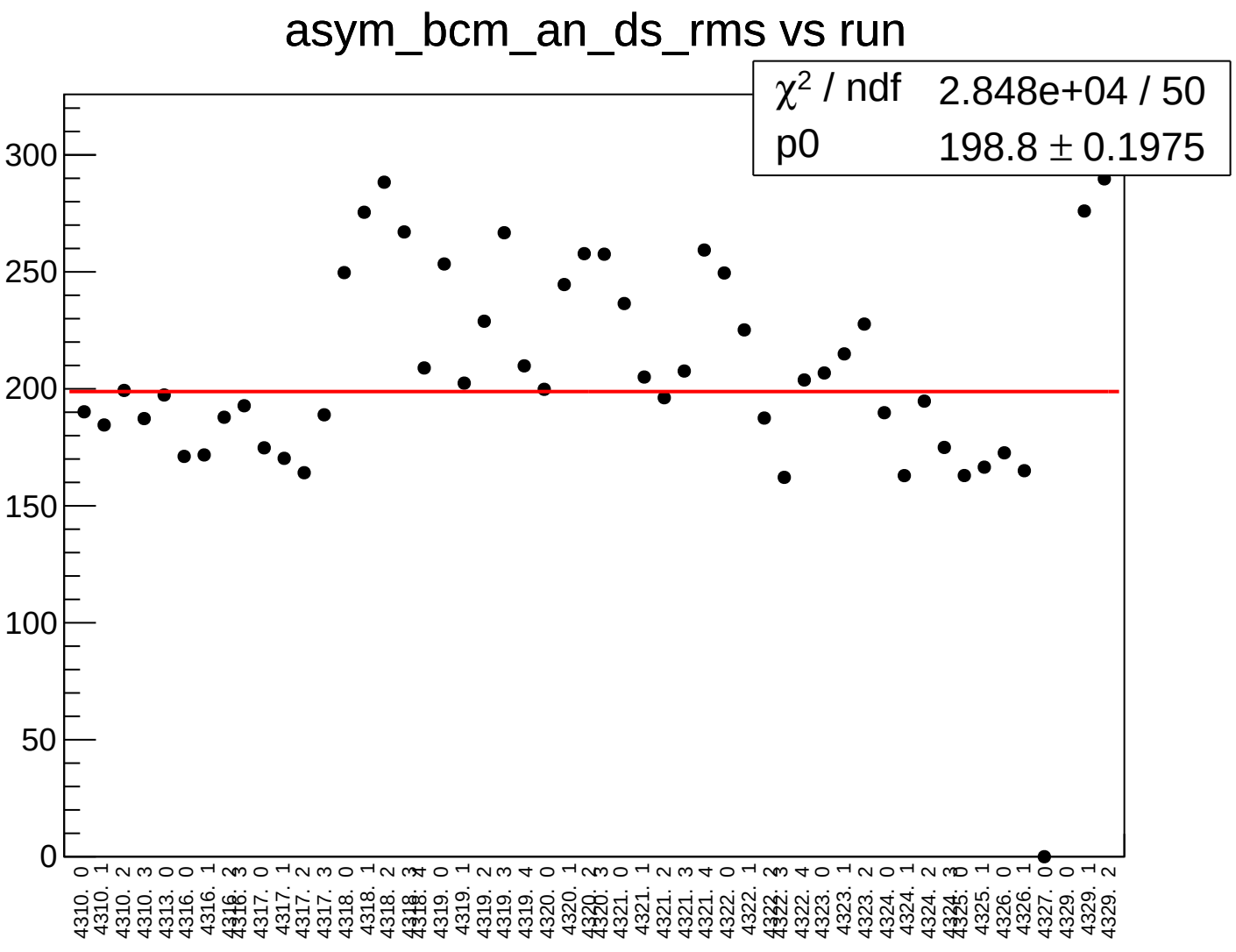

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.172e+05 / 50
p0 1.025e+05 ± 0.1848
100
80
60
40
20
0

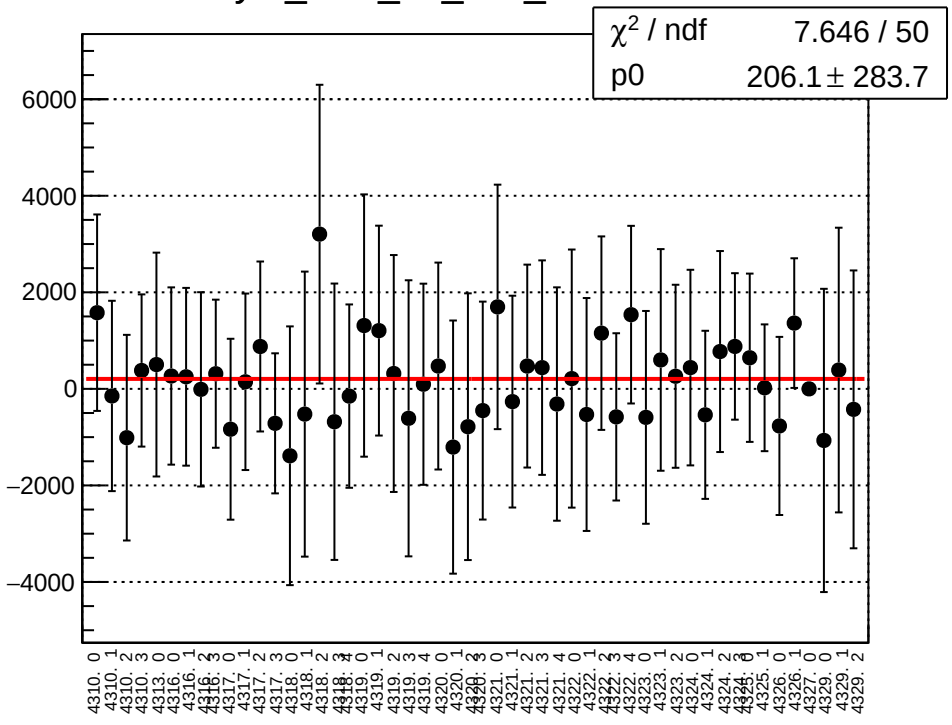

pull1D
Entries 52
Mean −0.7477
Std Dev 5.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

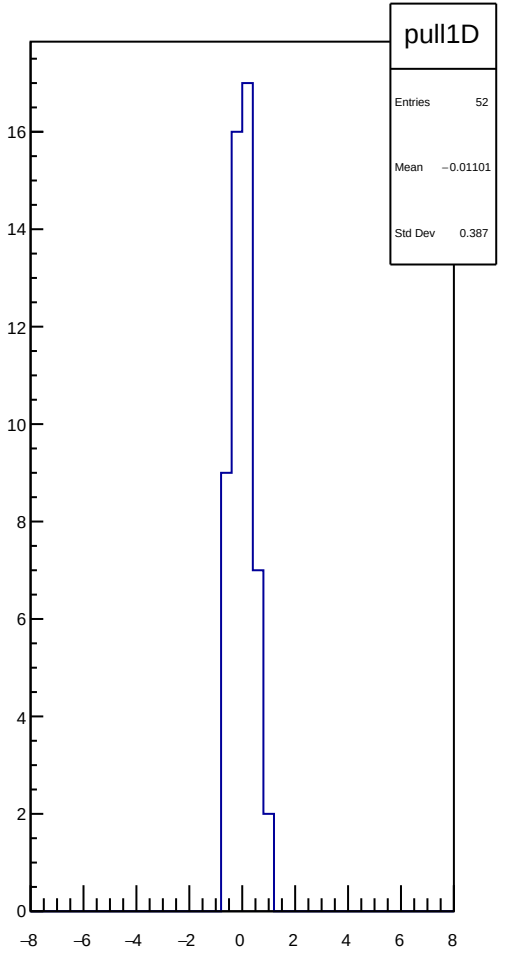

yield_bpm0l01WS_rms vs run
χ² / ndf 1.644e+04 / 50
p0 132.3 ± 0.1306
900
800
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

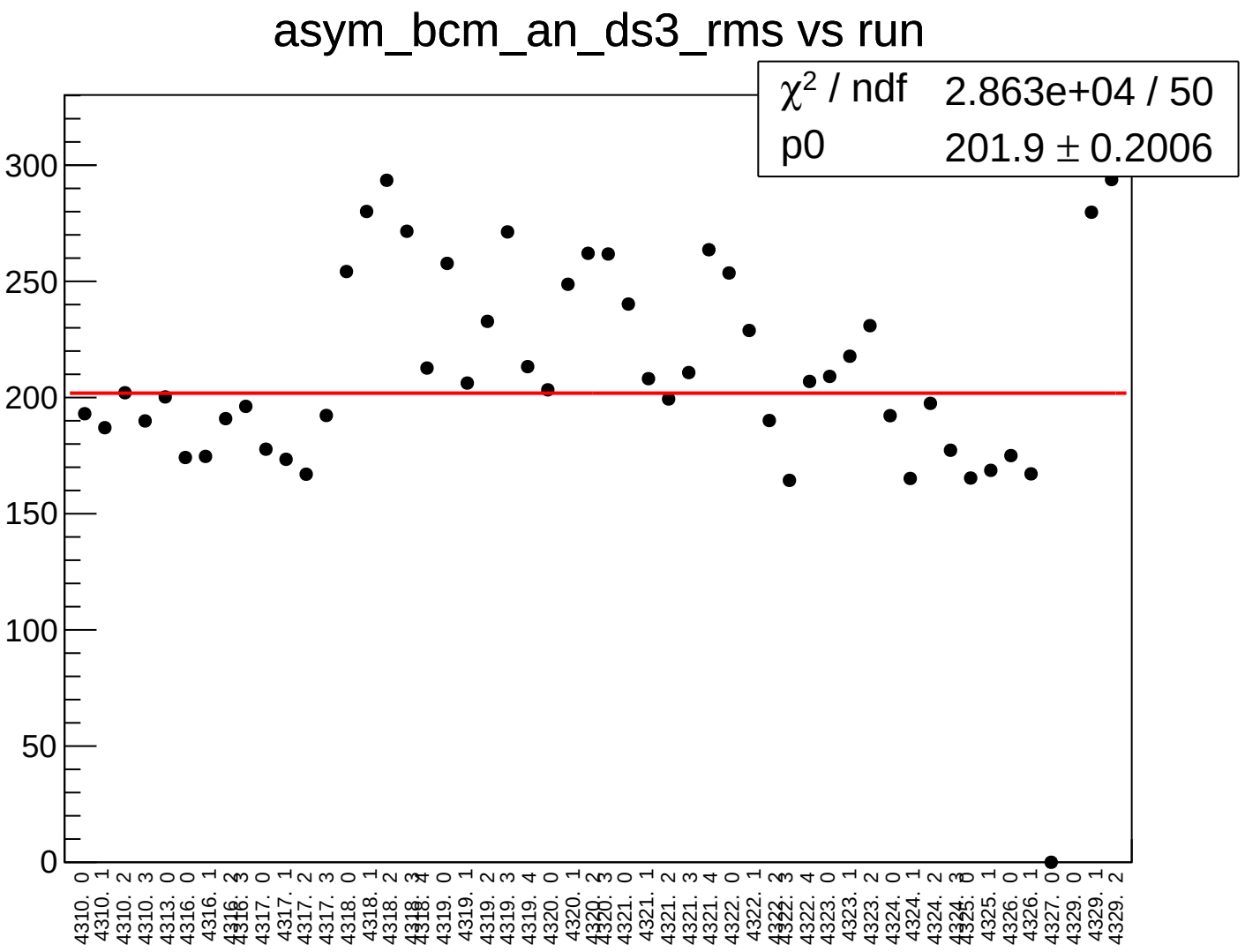

asym_bcm_an_ds_mean vs run
χ² / ndf 7.599 / 50
p0 206.9 ± 279.4
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

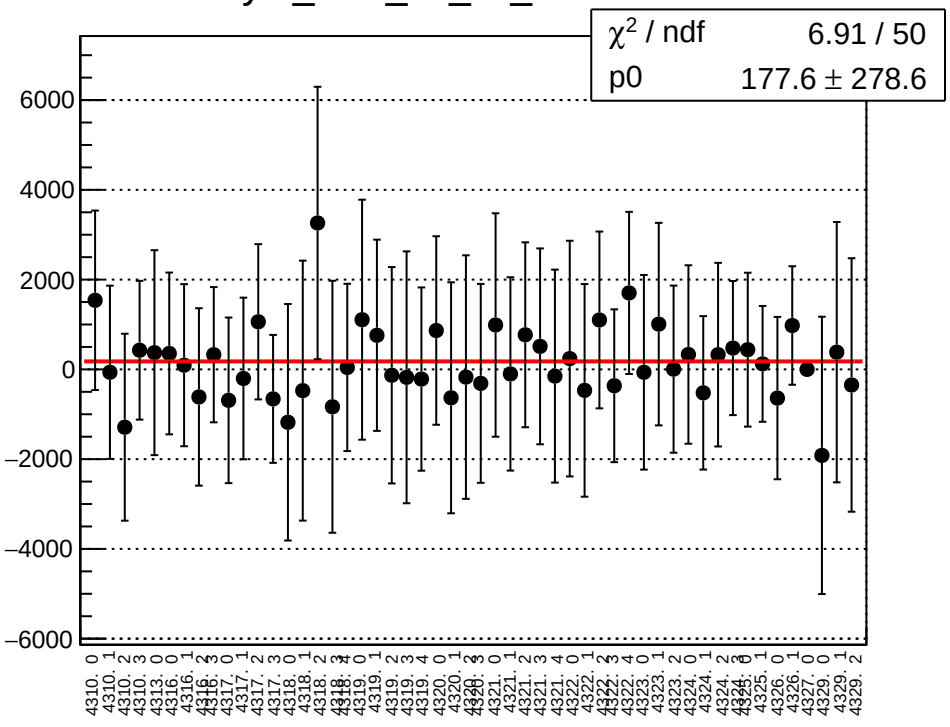

pull1D
Entries 52
Mean −0.01024
Std Dev 0.3859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

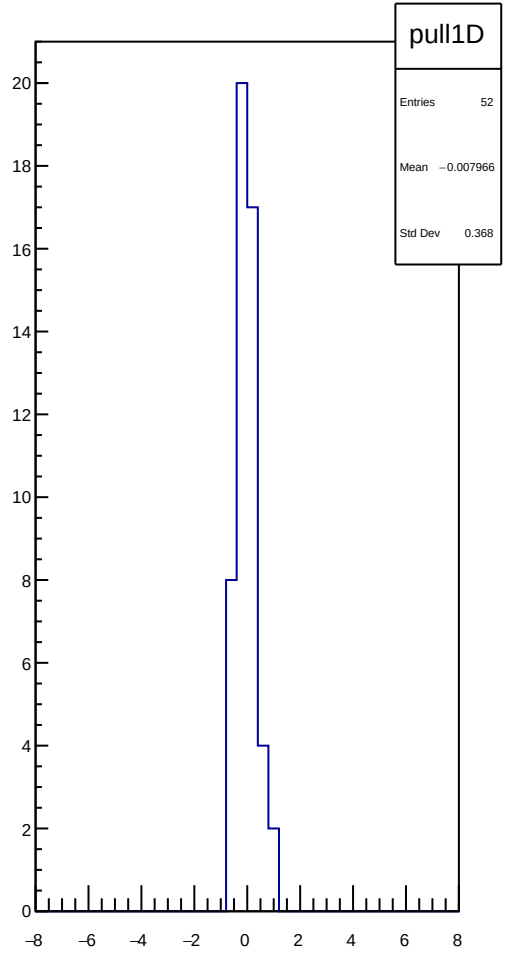

asym_bcm_an_ds_rms vs run
χ² / ndf 2.848e+04 / 50
p0 198.8 ± 0.1975
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

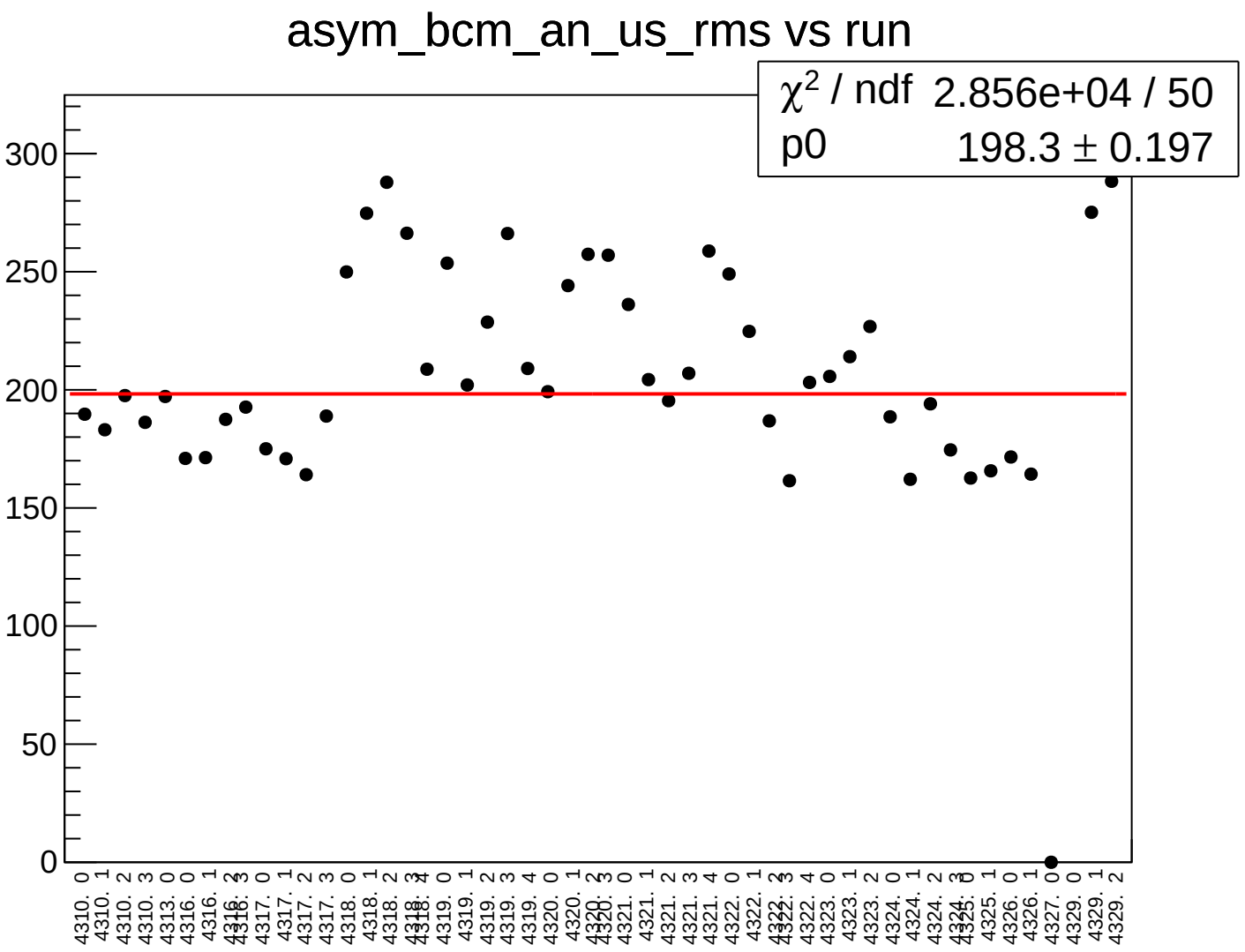

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.646 / 50
p0 206.1 ± 283.7
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

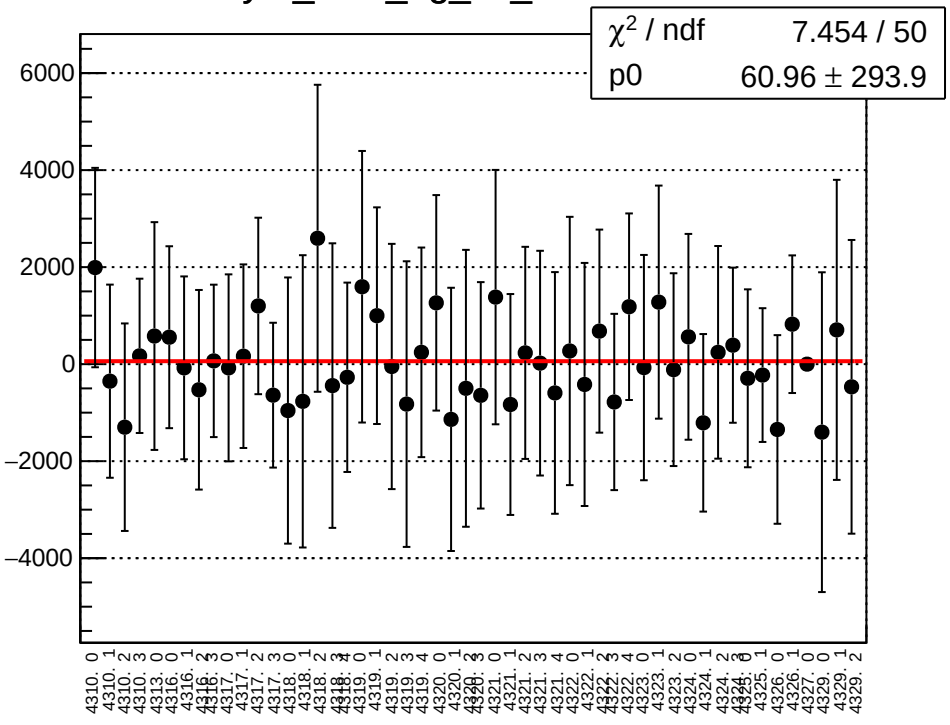

pull1D
Entries 52
Mean −0.01101
Std Dev 0.387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

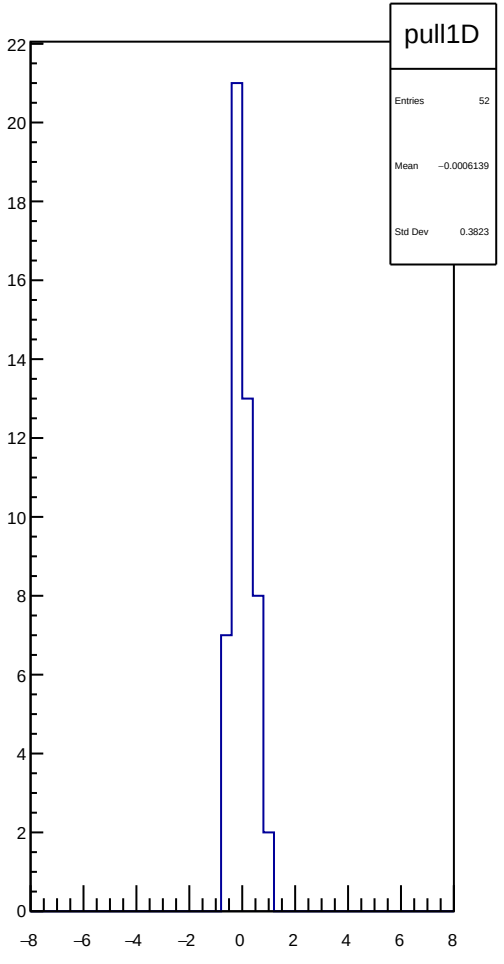

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.863e+04 / 50
p0 201.9 ± 0.2006
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

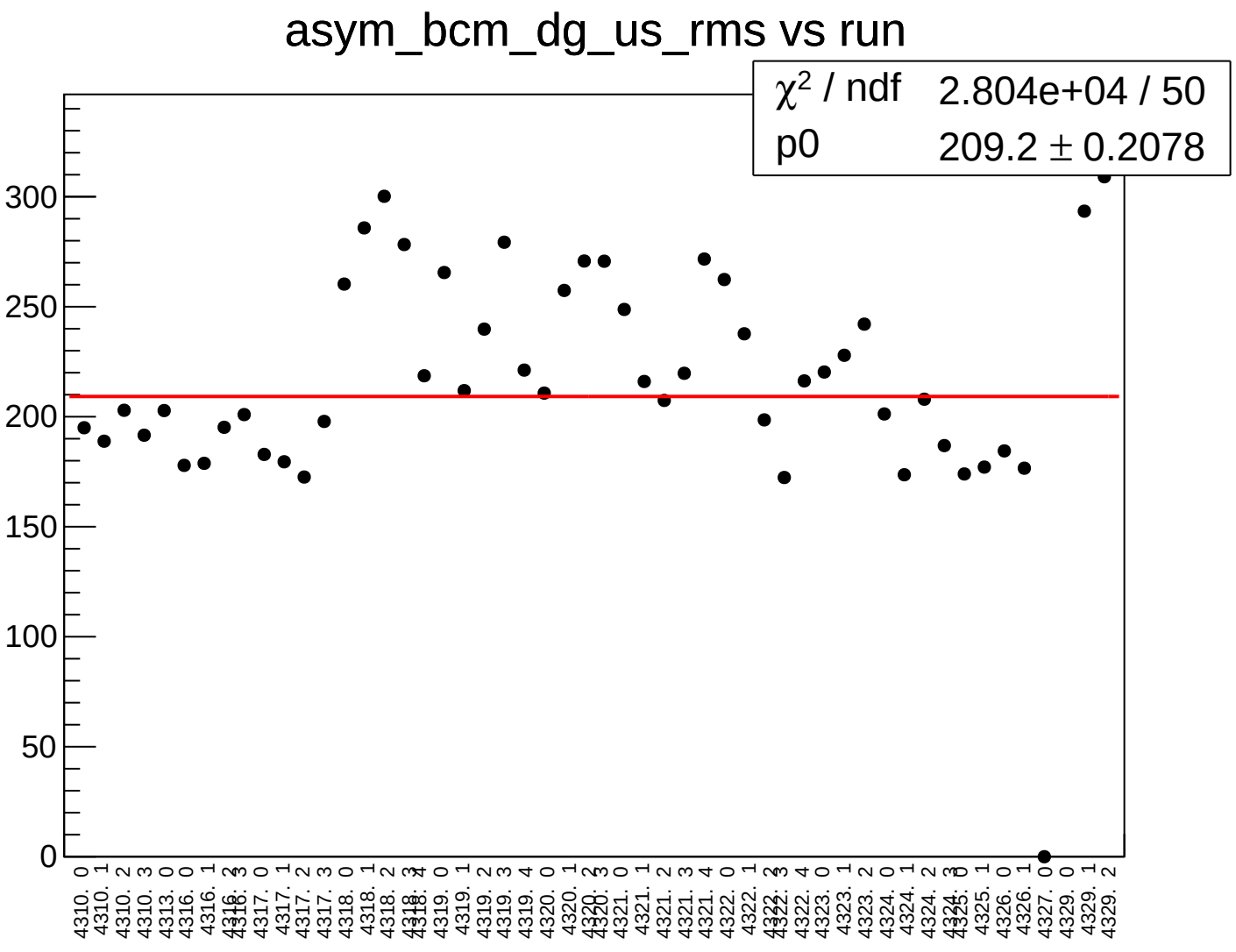

asym_bcm_an_us_mean vs run
χ² / ndf 6.91 / 50
p0 177.6 ± 278.6
6000
4000
2000
0
−2000
−4000
−6000

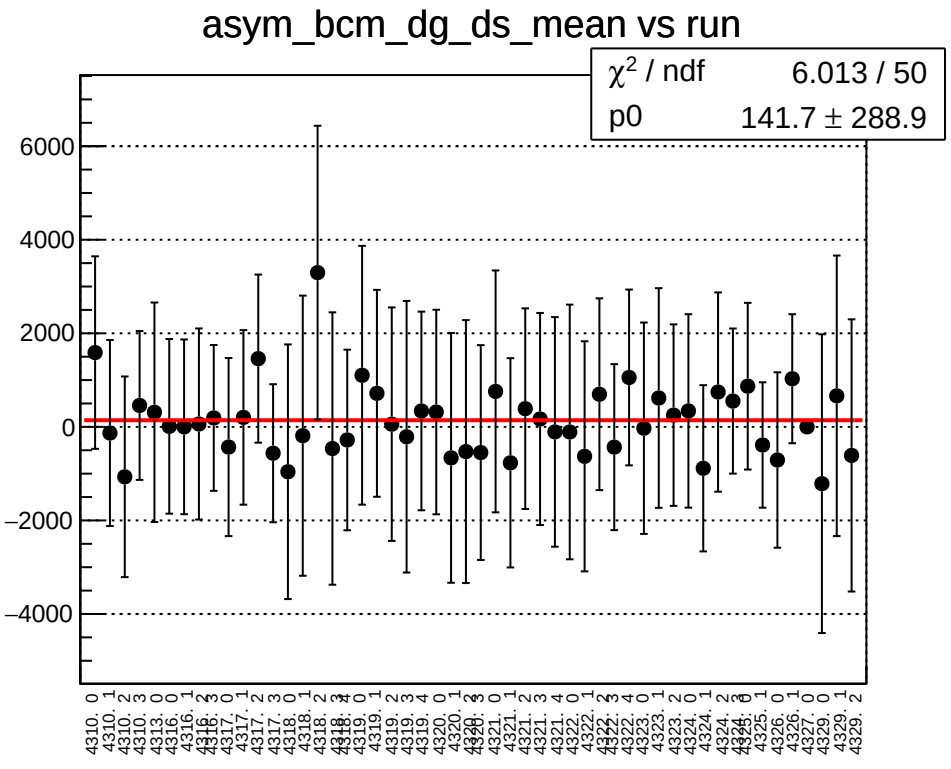

pull1D
Entries 52
Mean −0.007966
Std Dev 0.368
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

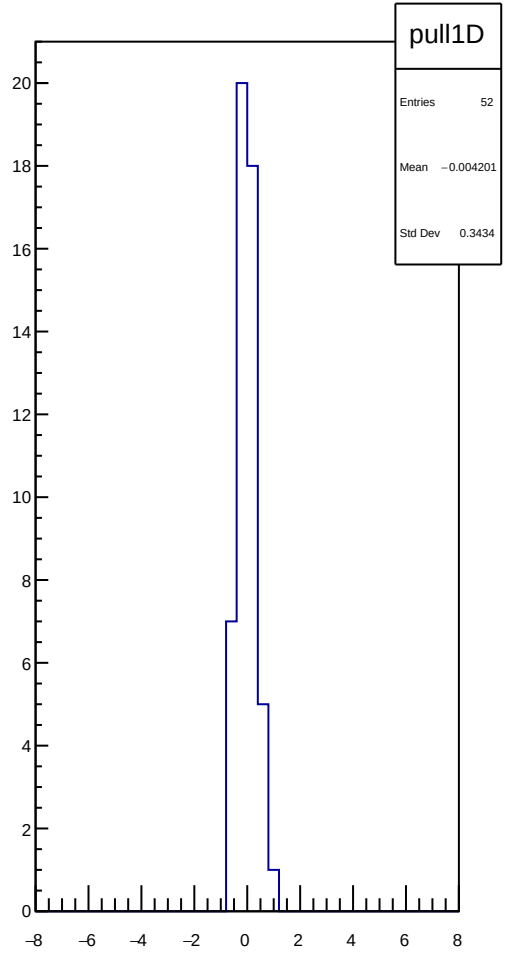

asym_bcm_an_us_rms vs run
χ² / ndf 2.856e+04 / 50
p0 198.3 ± 0.197
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

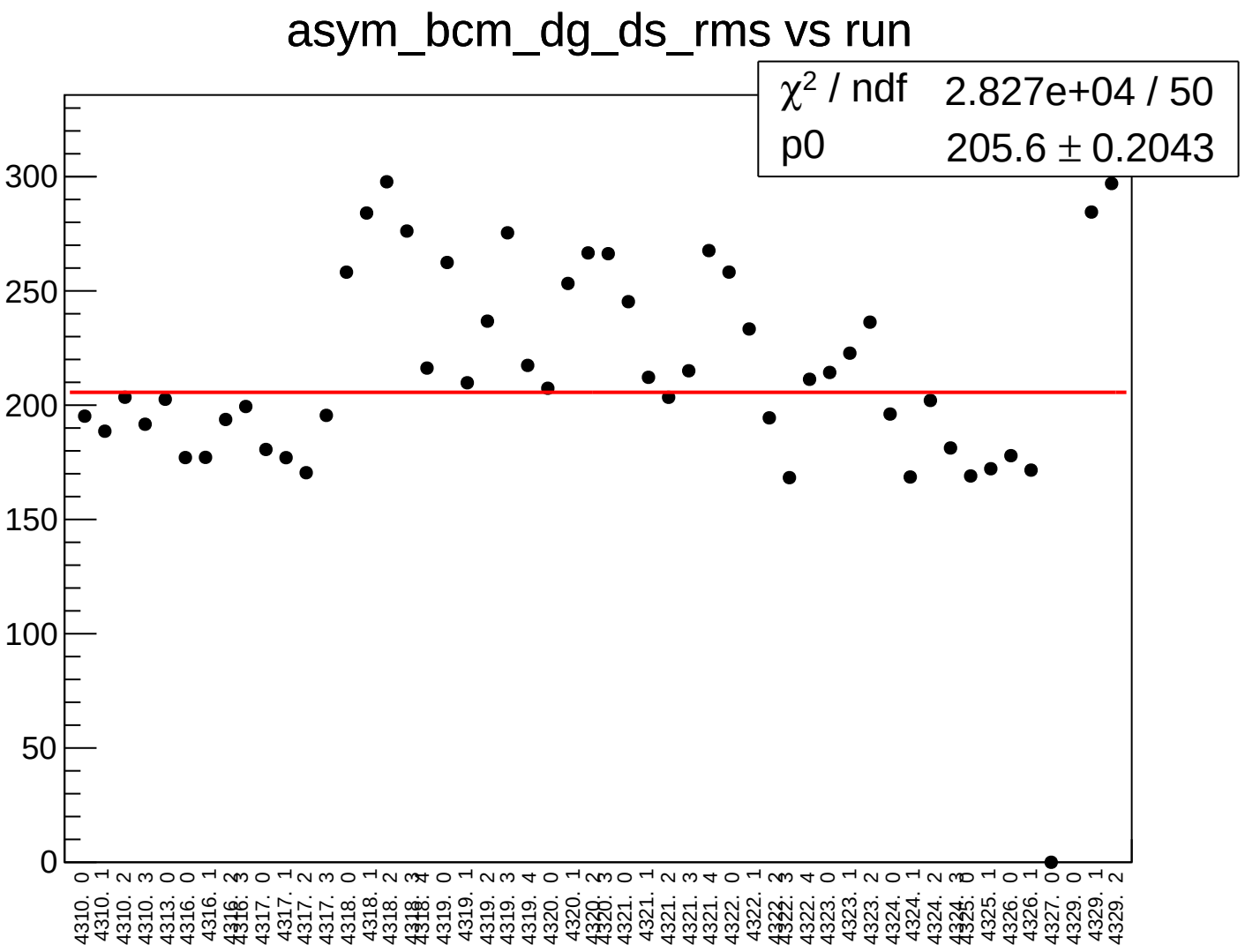

asym_bcm_dg_us_mean vs run
χ² / ndf 7.454 / 50
p0 60.96 ± 293.9
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

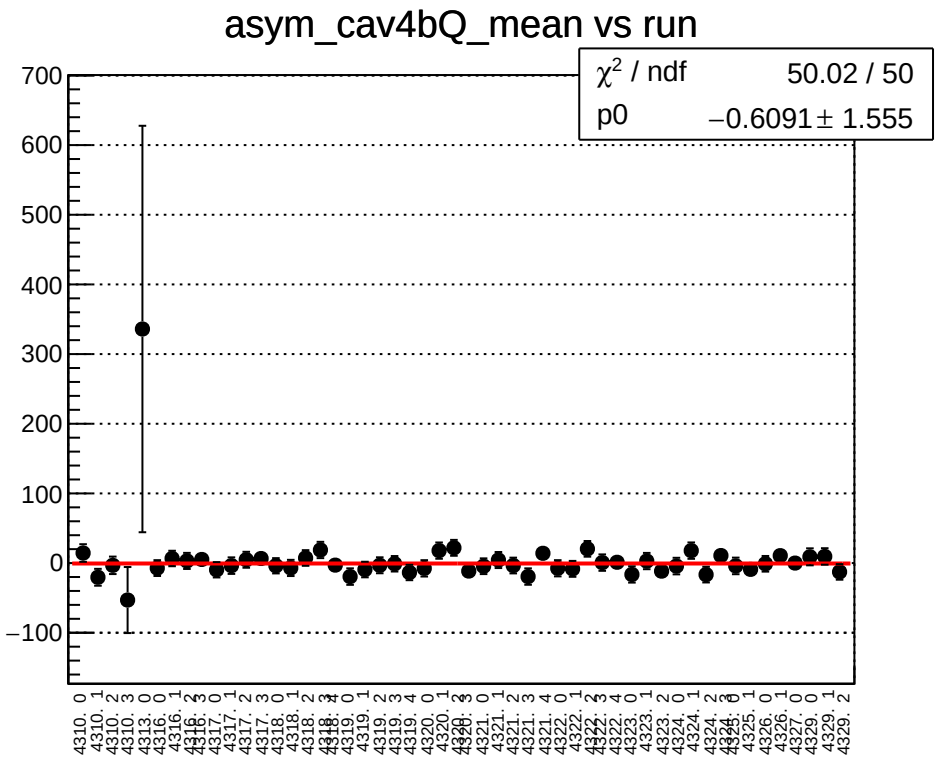

pull1D
Entries 52
Mean −0.0006139
Std Dev 0.3823
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

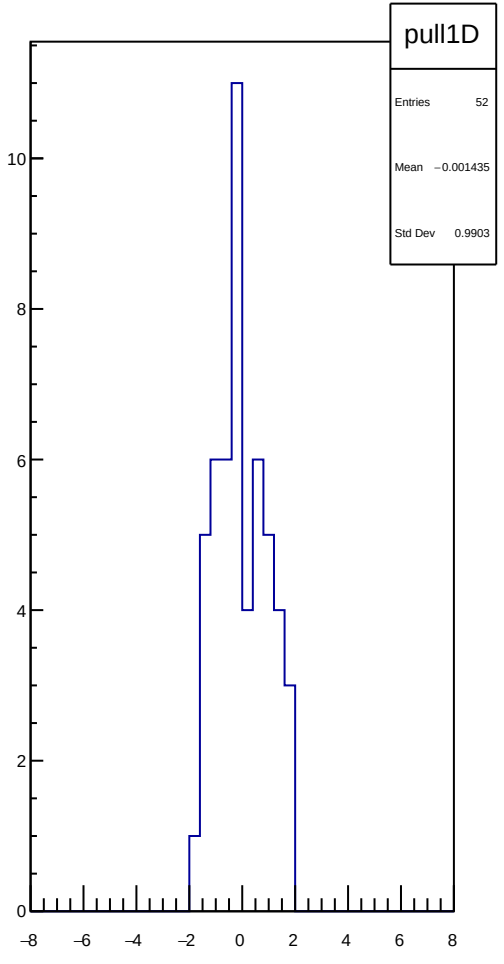

asym_bcm_dg_us_rms vs run
χ² / ndf 2.804e+04 / 50
p0 209.2 ± 0.2078
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

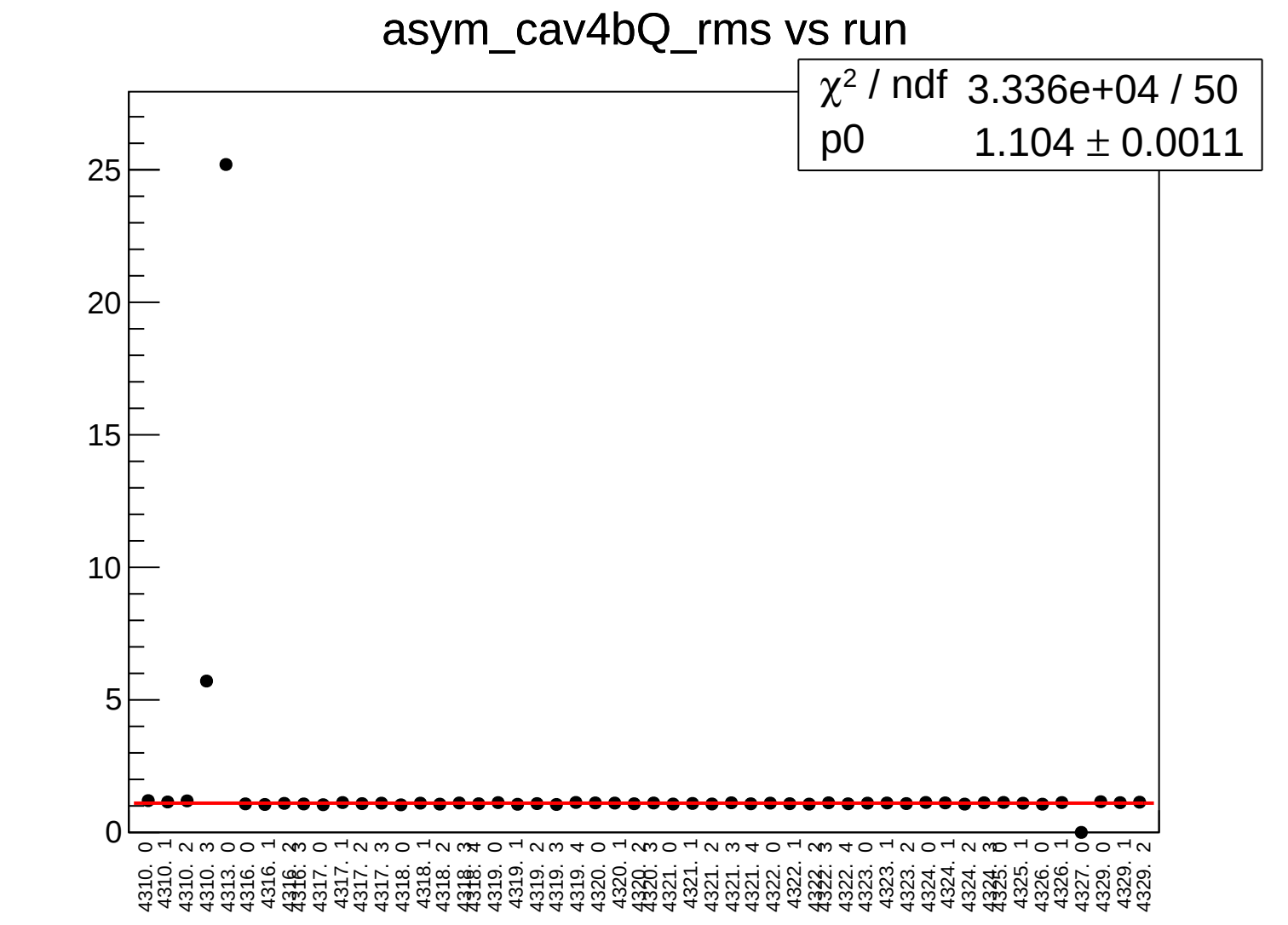

asym_bcm_dg_ds_mean vs run
χ² / ndf 6.013 / 50
p0 141.7 ± 288.9
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

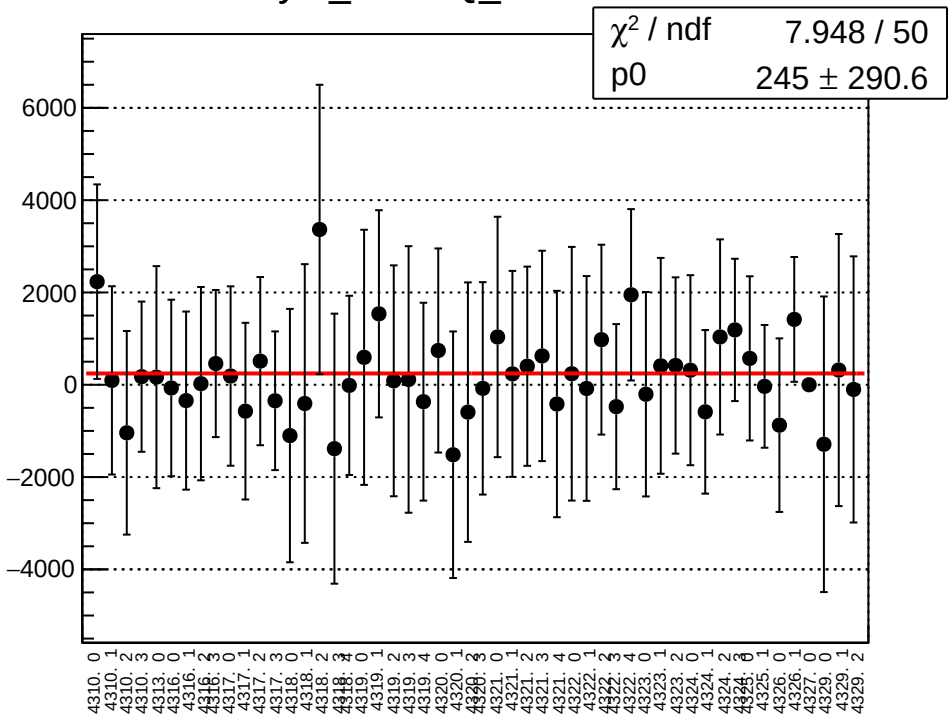

pull1D
Entries 52
Mean −0.004201
Std Dev 0.3434
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

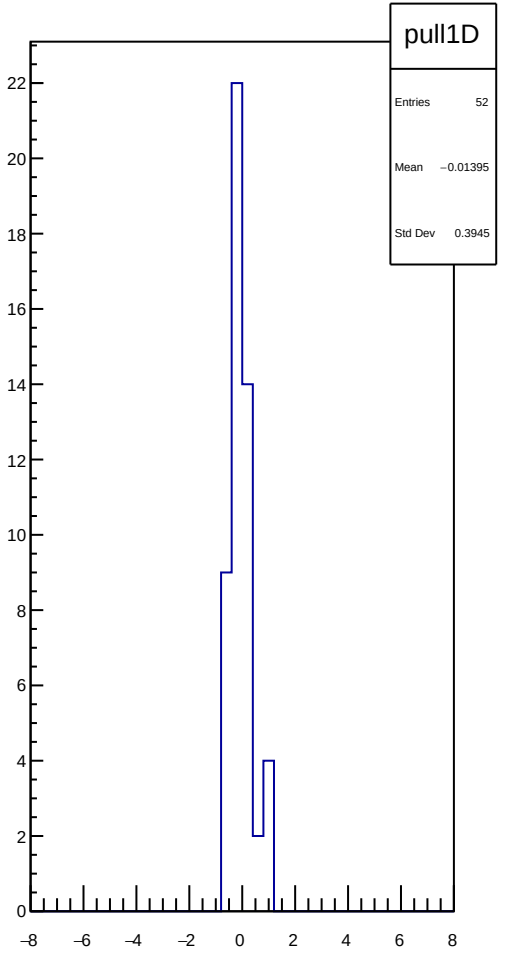

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.827e+04 / 50
p0 205.6 ± 0.2043
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

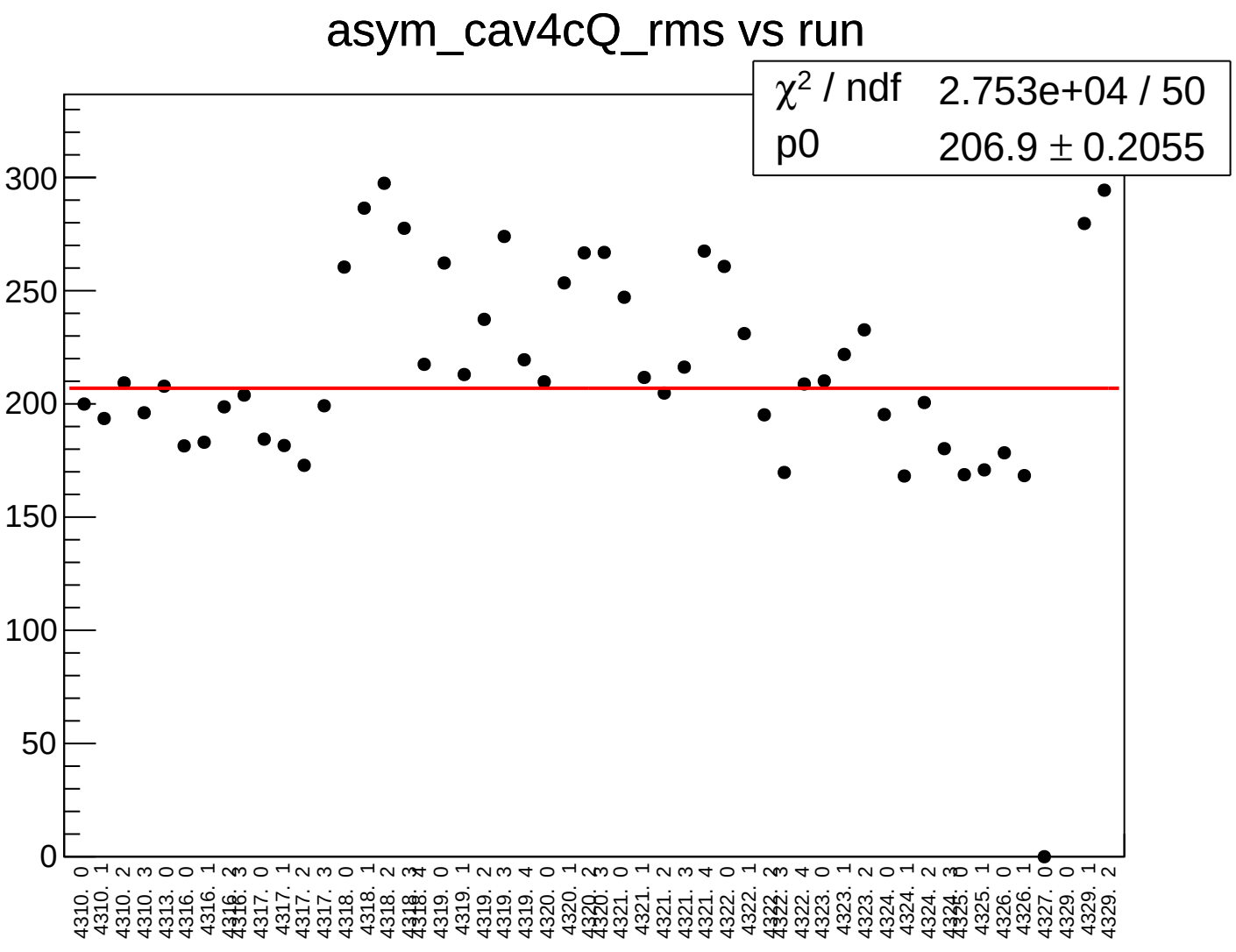

asym_cav4bQ_mean vs run
χ² / ndf 50.02 / 50
p0 −0.6091 ± 1.555
700
600
500
400
300
200
100
0
−100

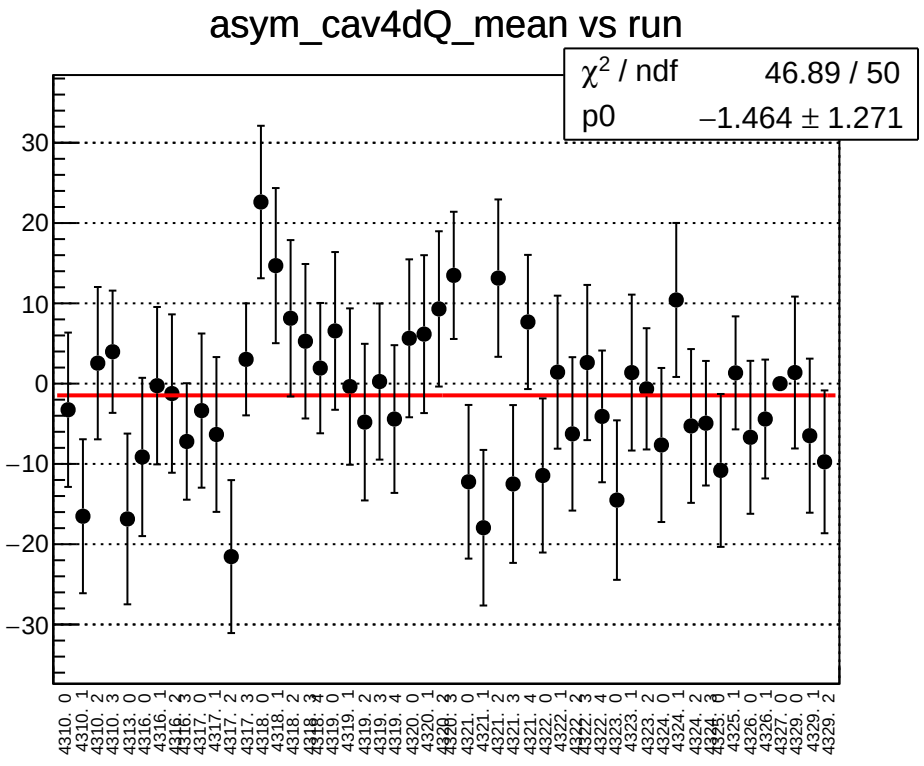

pull1D
Entries 52
Mean −0.001435
Std Dev 0.9903
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

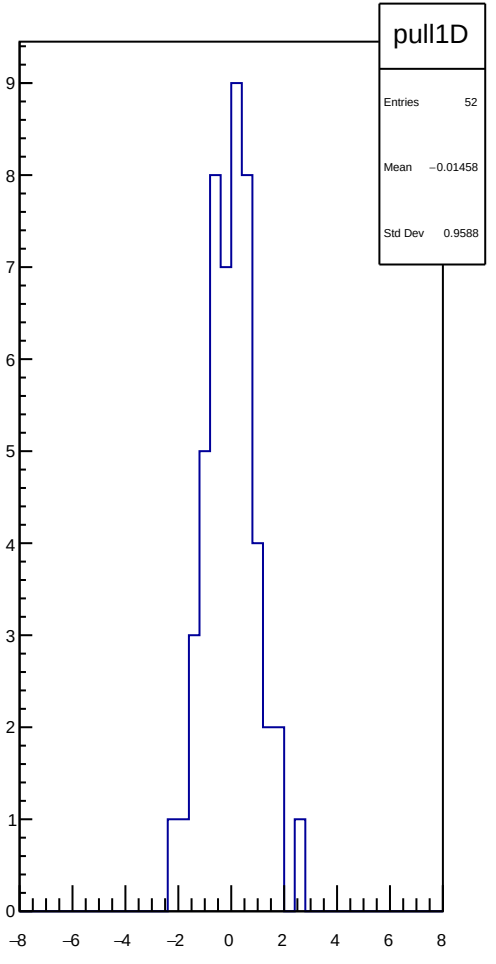

asym_cav4bQ_rms vs run
χ² / ndf 3.336e+04 / 50
p0 1.104 ± 0.0011
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

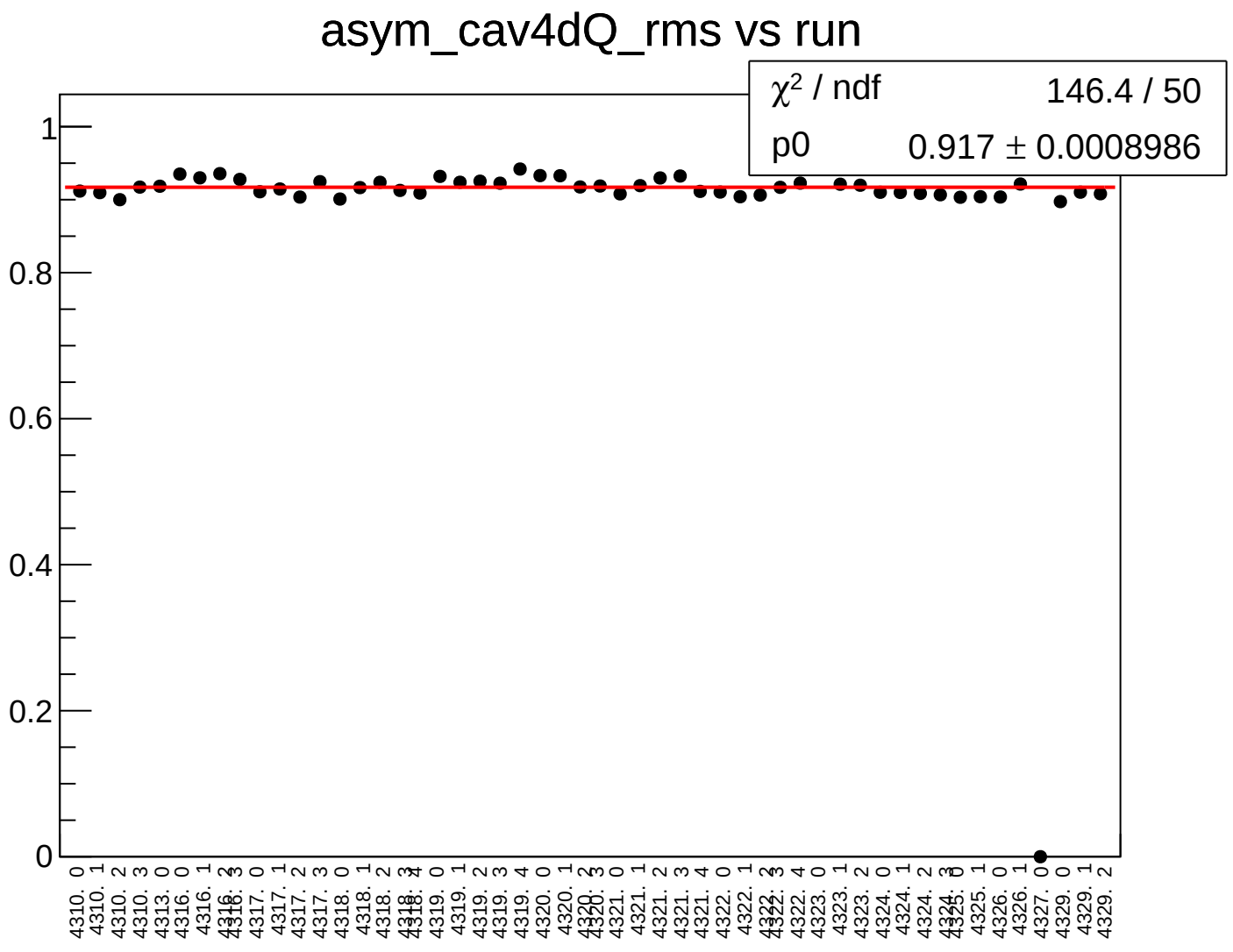

asym_cav4cQ_mean vs run
χ² / ndf 7.948 / 50
p0 245 ± 290.6
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

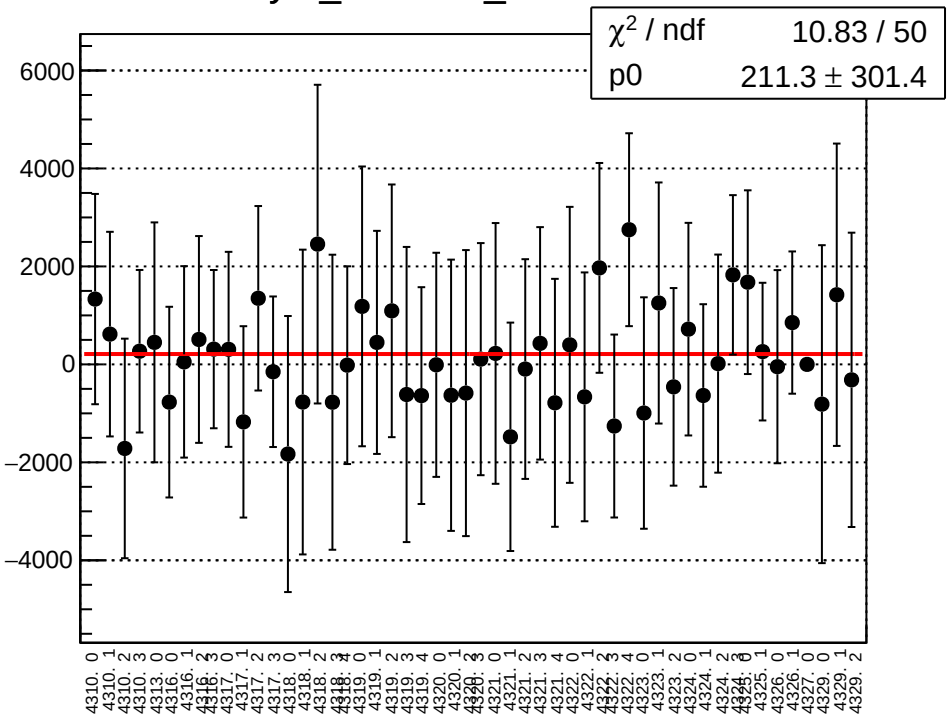

pull1D
Entries 52
Mean −0.01395
Std Dev 0.3945
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

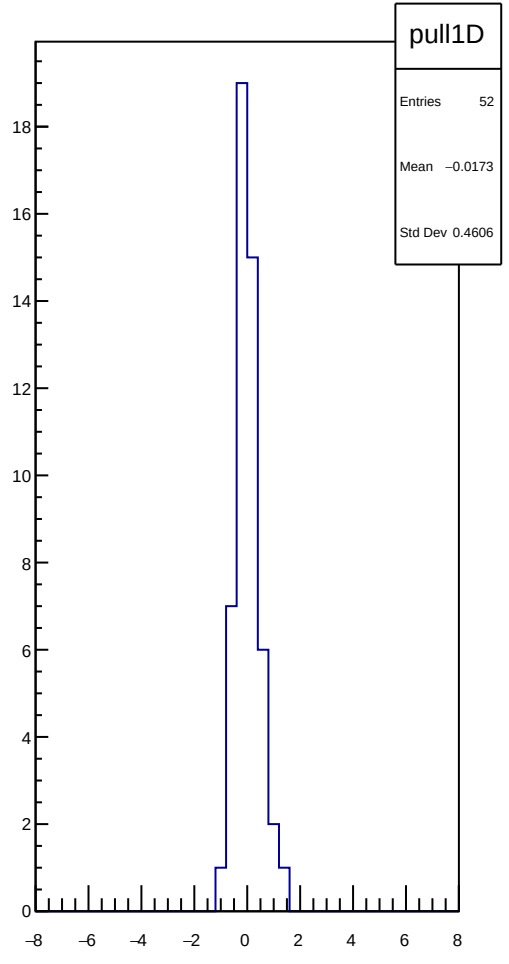

asym_cav4cQ_rms vs run
χ² / ndf 2.753e+04 / 50
p0 206.9 ± 0.2055
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

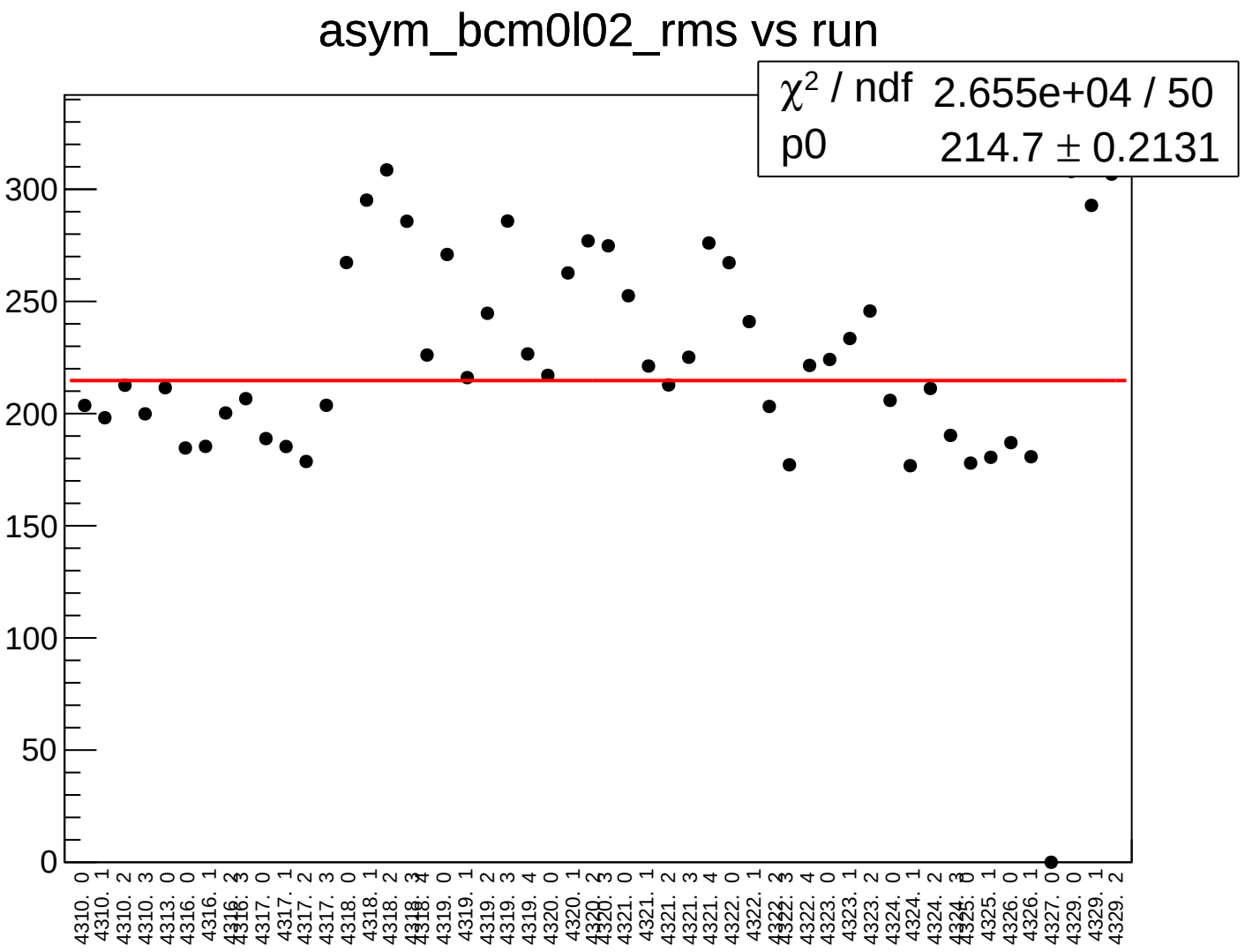

asym_cav4dQ_mean vs run
χ² / ndf 46.89 / 50
p0 −1.464 ± 1.271
30
20
10
0
−10
−20
−30
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

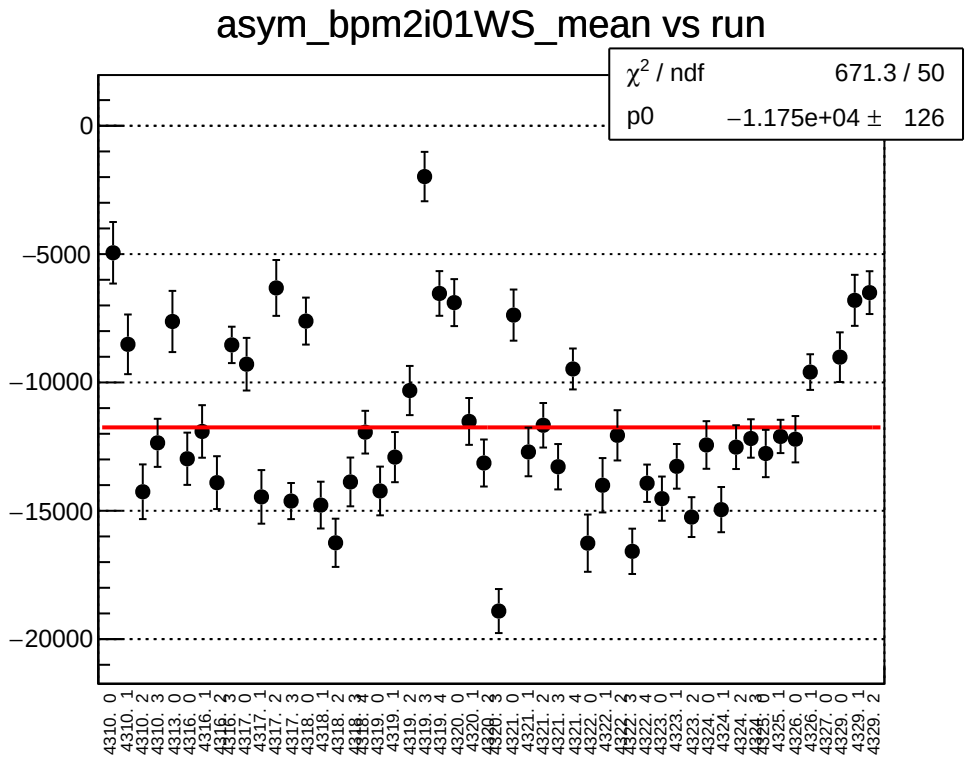

pull1D
Entries 52
Mean −0.01458
Std Dev 0.9588
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

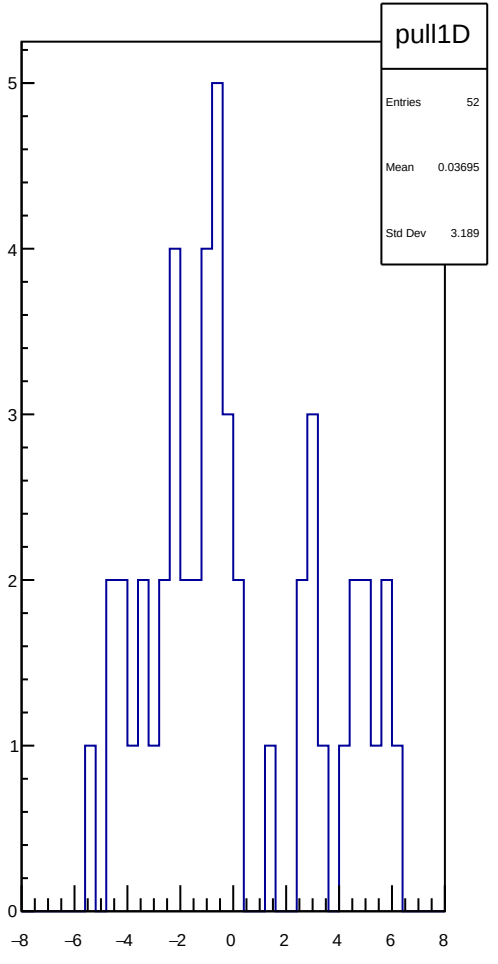

asym_cav4dQ_rms vs run
χ² / ndf 146.4 / 50
p0 0.917 ± 0.0008986
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

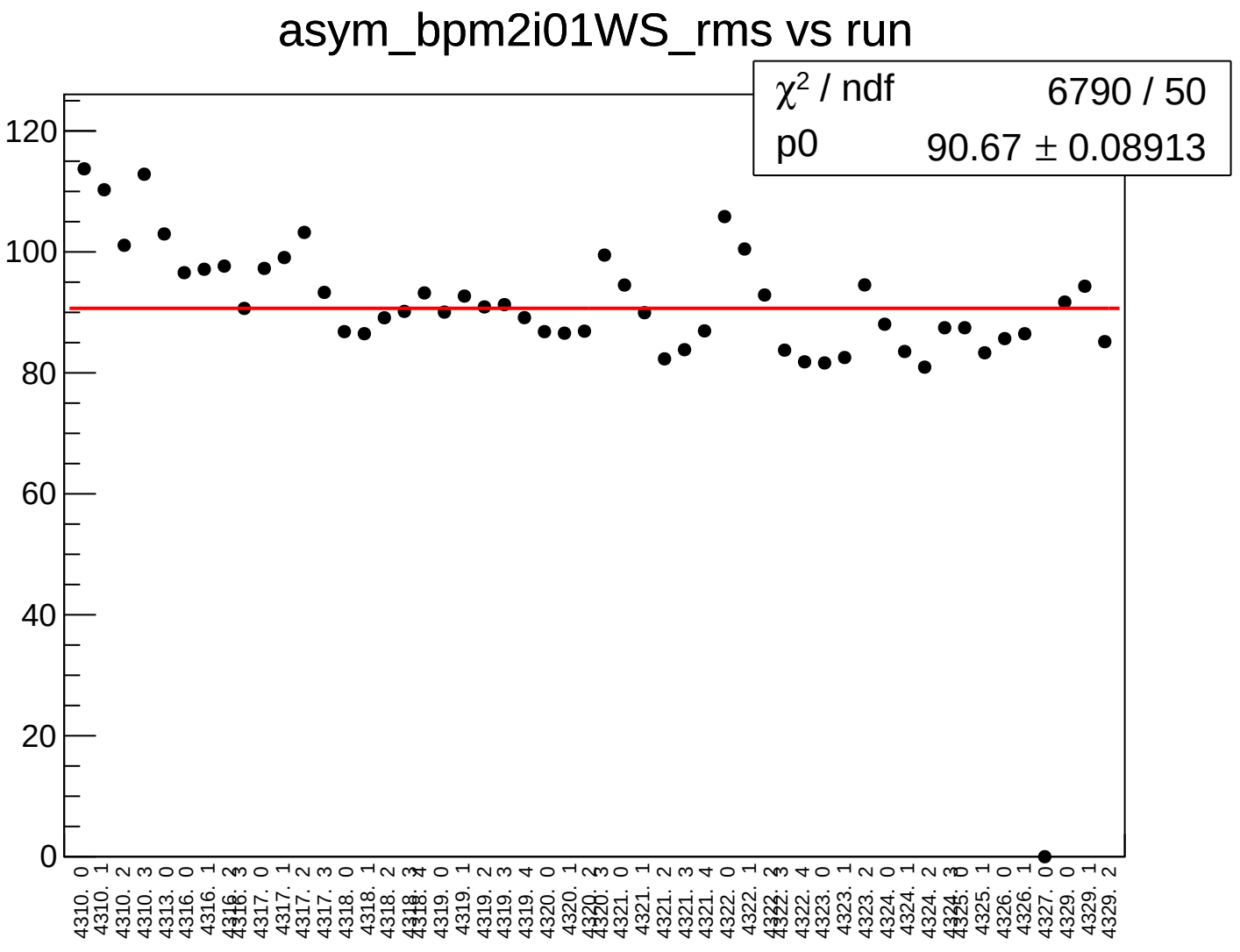

asym_bcm0l02_mean vs run
χ² / ndf 10.83 / 50
p0 211.3 ± 301.4
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

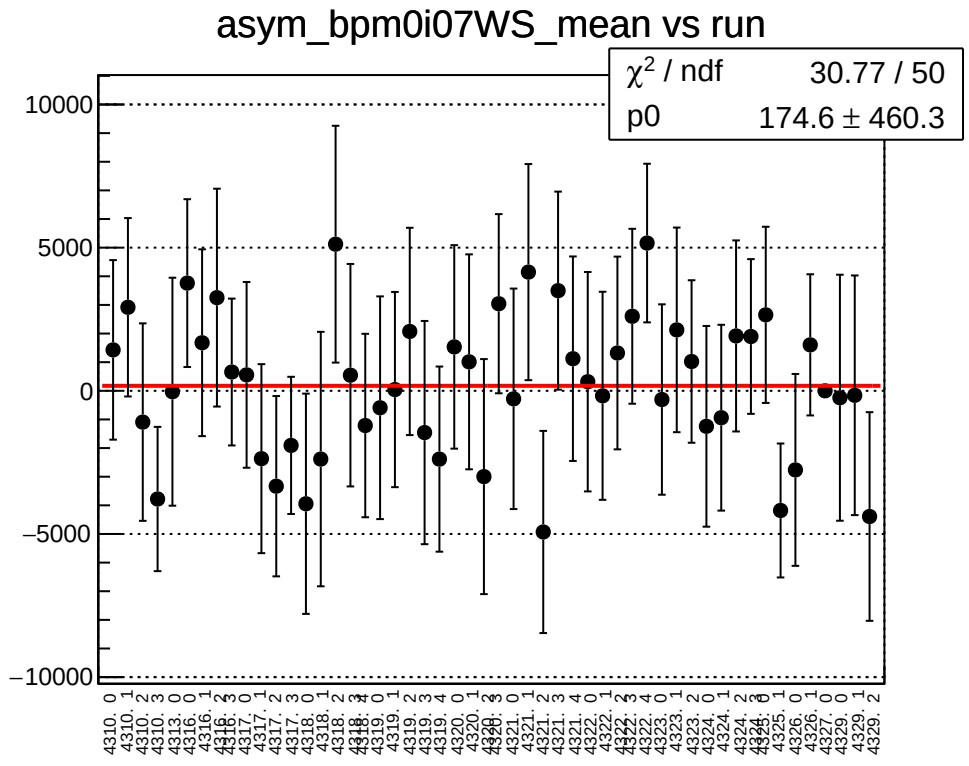

pull1D
Entries 52
Mean −0.0173
Std Dev 0.4606
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

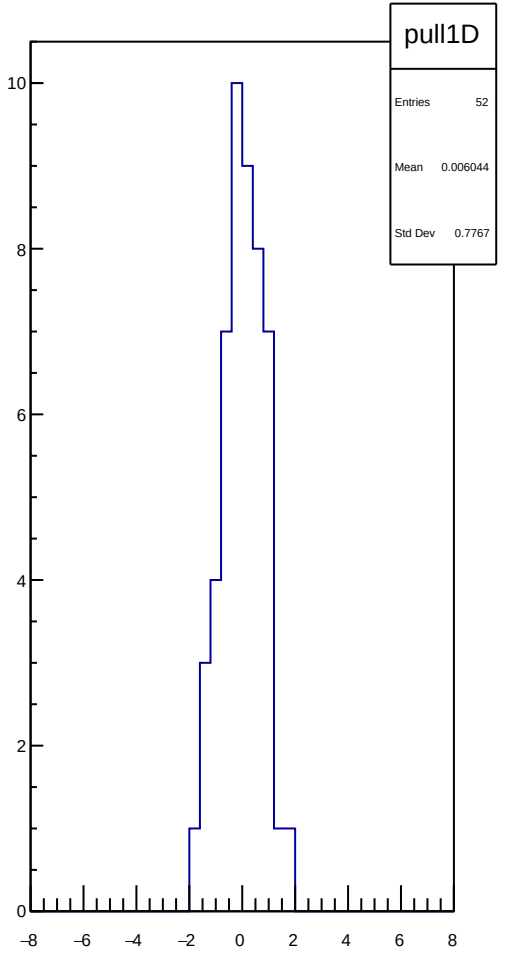

asym_bcm0l02_rms vs run
χ² / ndf 2.655e+04 / 50
p0 214.7 ± 0.2131
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

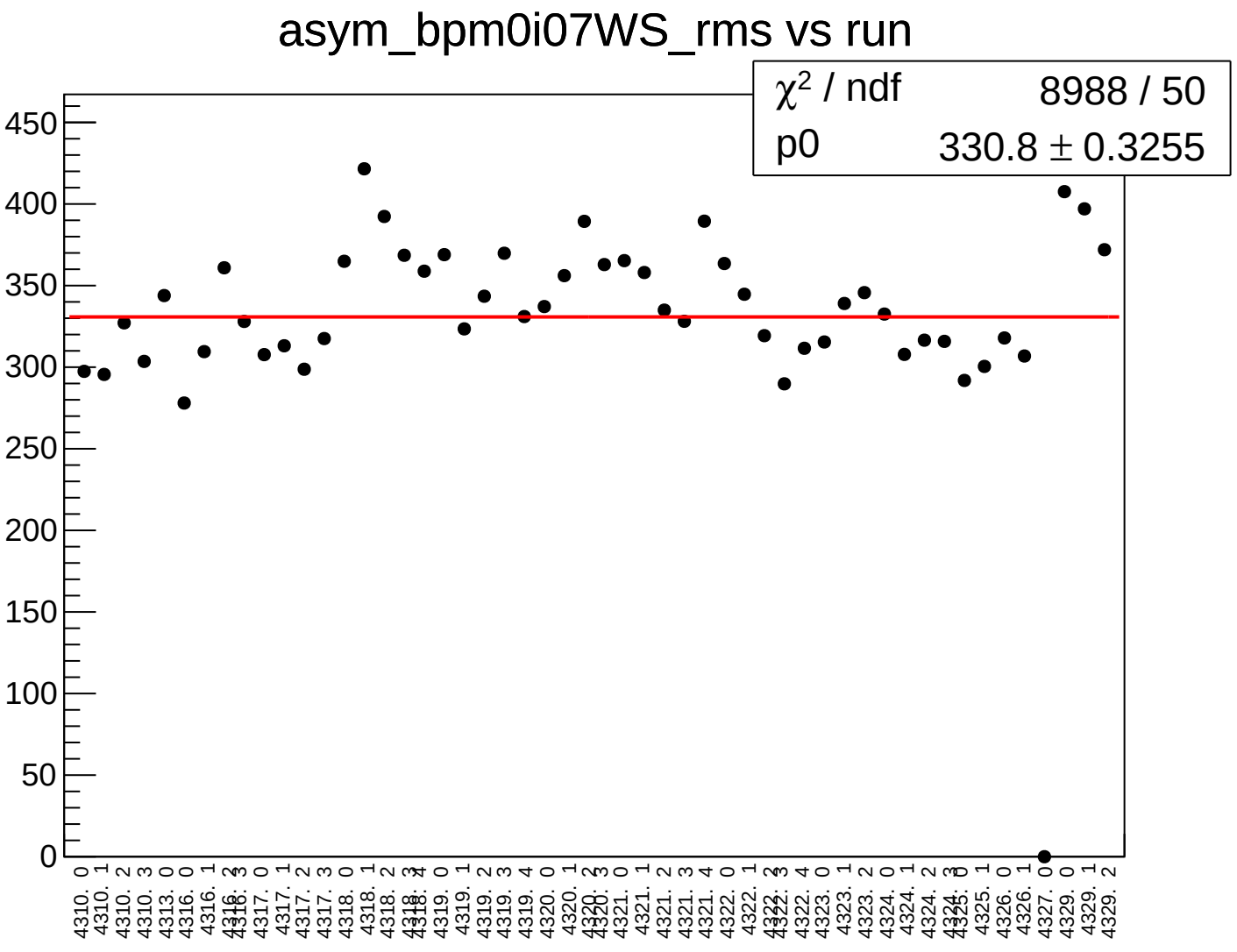

asym_bpm2i01WS_mean vs run
χ² / ndf 671.3 / 50
p0 −1.175e+04 ± 126
0
−5000
−10000
−15000
−20000

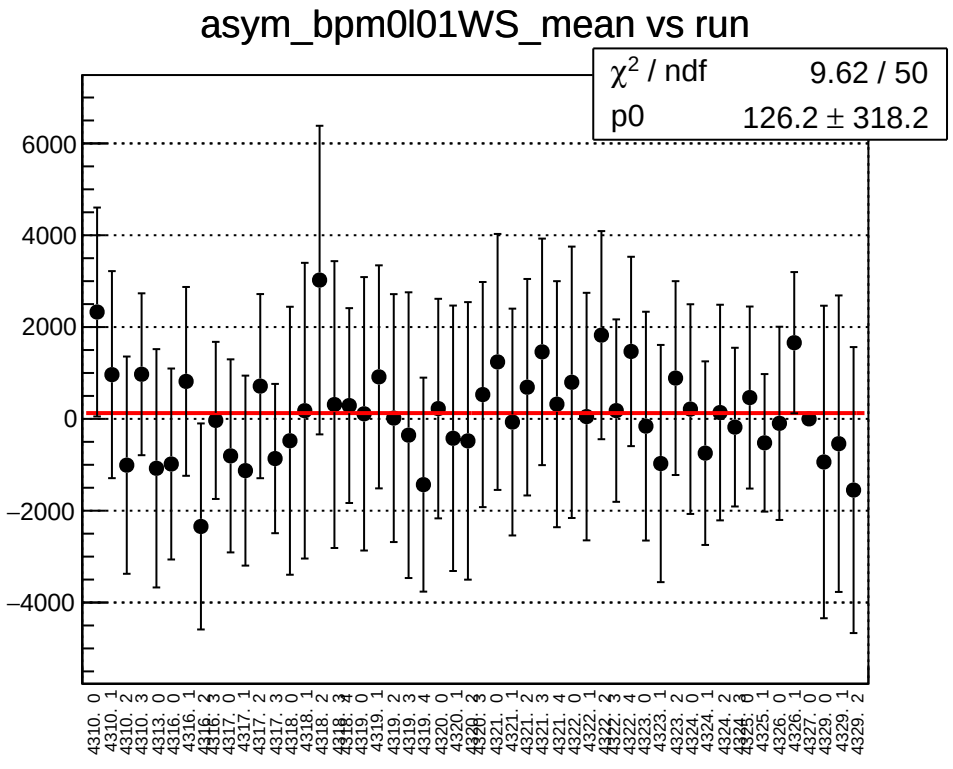

pull1D
Entries 52
Mean 0.03695
Std Dev 3.189
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

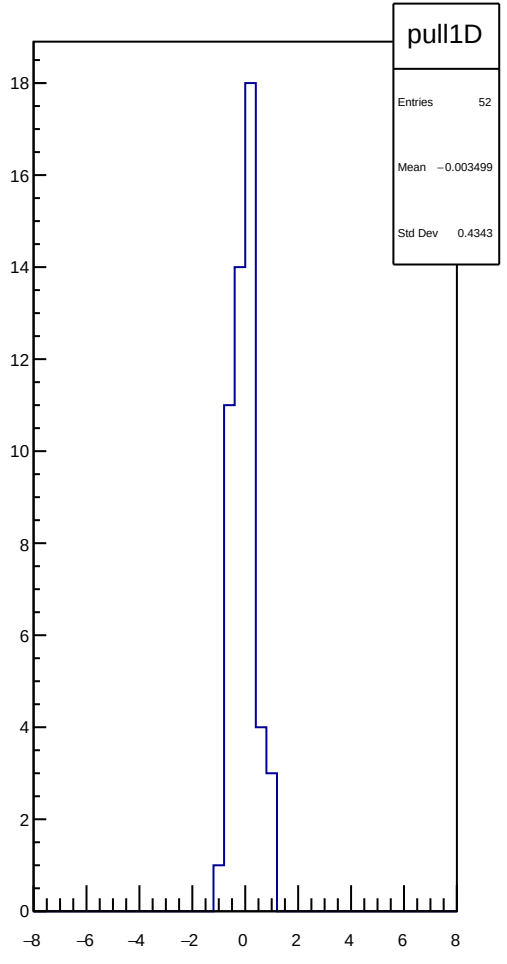

asym_bpm2i01WS_rms vs run
χ² / ndf 6790 / 50
p0 90.67 ± 0.08913
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

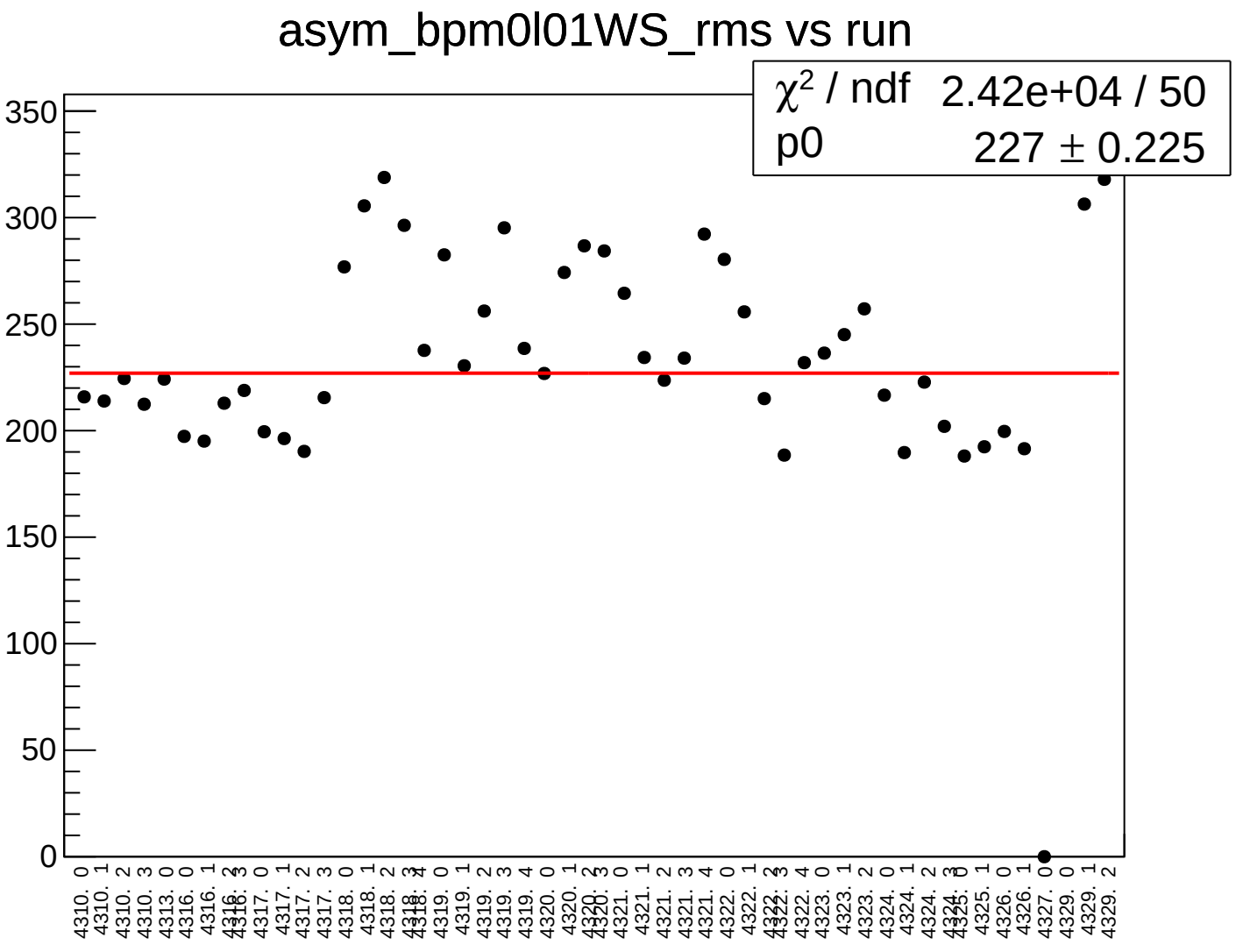

asym_bpm0i07WS_mean vs run
χ² / ndf 30.77 / 50
p0 174.6 ± 460.3
10000
5000
0
−5000
−10000

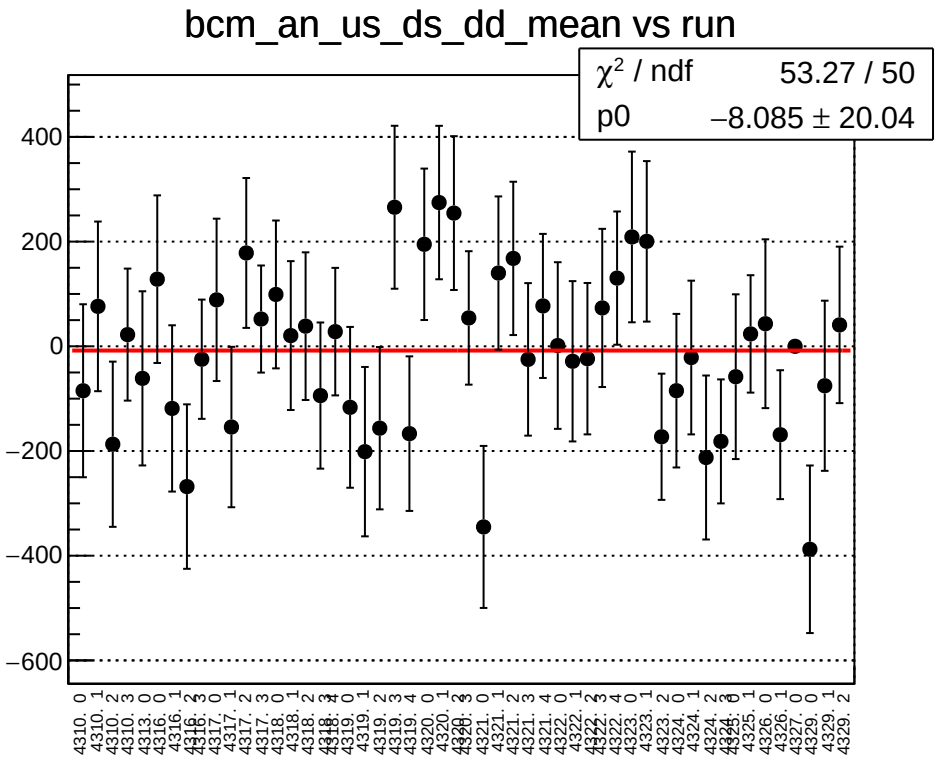

pull1D
Entries 52
Mean 0.006044
Std Dev 0.7767
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

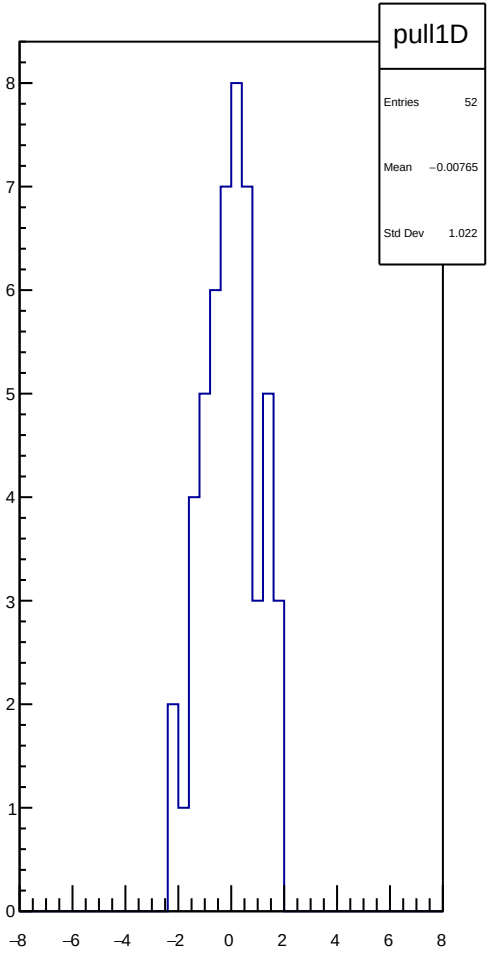

asym_bpm0i07WS_rms vs run
χ² / ndf 8988 / 50
p0 330.8 ± 0.3255
450
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

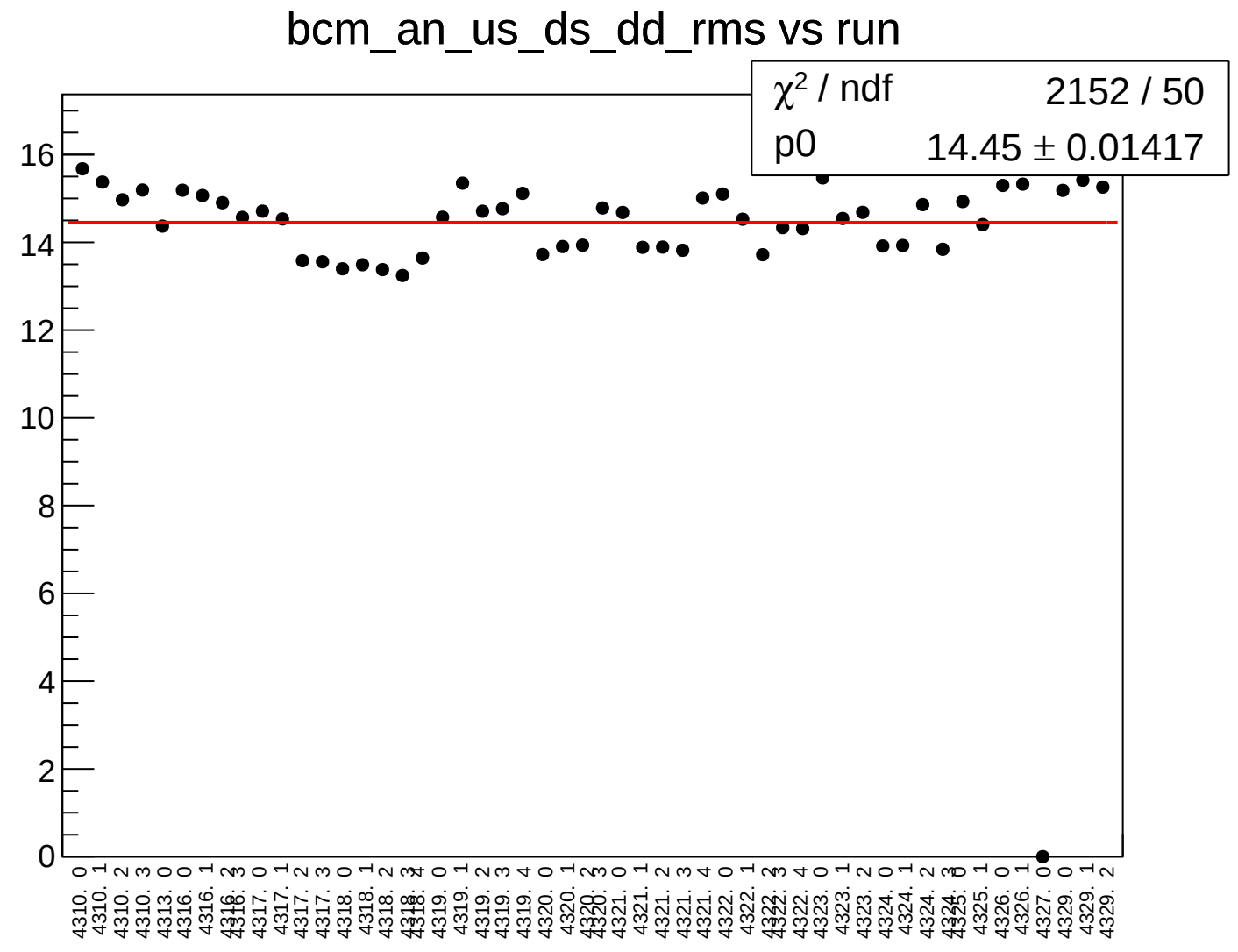

asym_bpm0l01WS_mean vs run
χ² / ndf 9.62 / 50
p0 126.2 ± 318.2
6000
4000
2000
0
−2000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

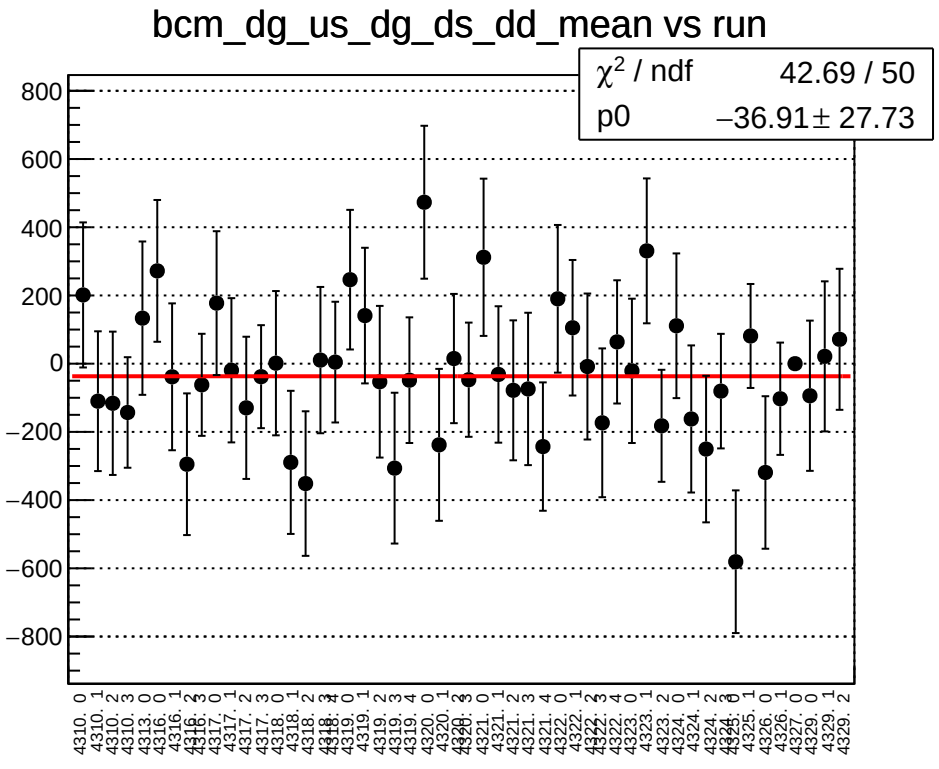

pull1D
Entries 52
Mean −0.003499
Std Dev 0.4343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

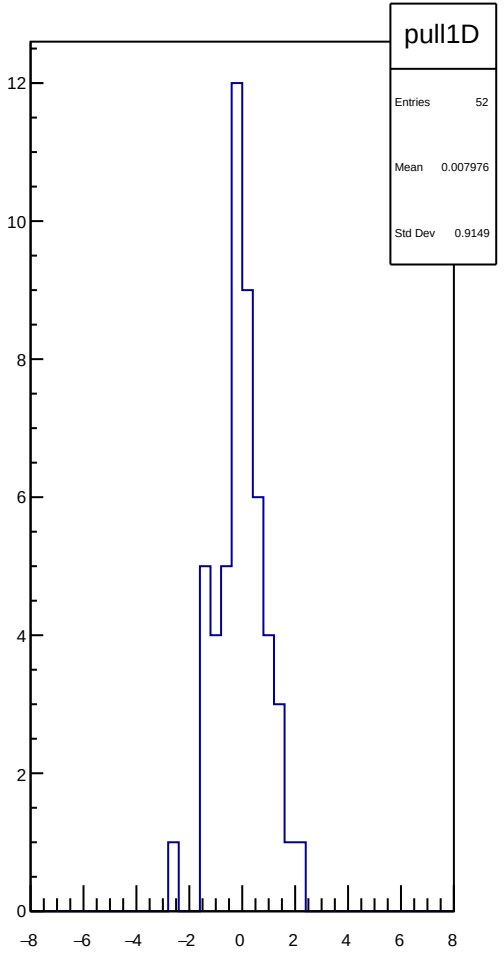

asym_bpm0l01WS_rms vs run
χ² / ndf 2.42e+04 / 50
p0 227 ± 0.225
350
300
250
200
150
100
50
0

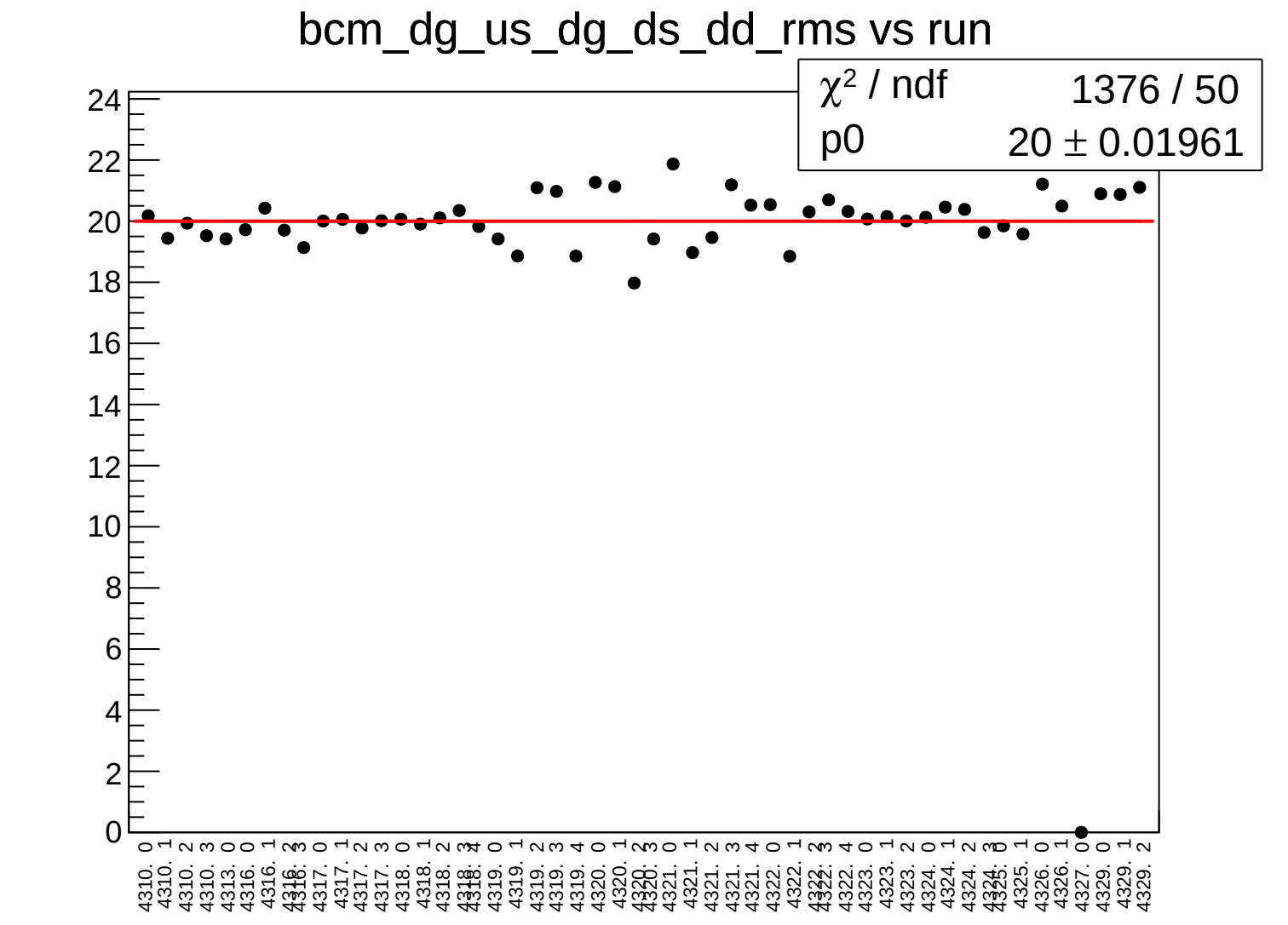

bcm_an_us_ds_dd_mean vs run
χ² / ndf 53.27 / 50
p0 −8.085 ± 20.04
400
200
0
−200
−400
−600

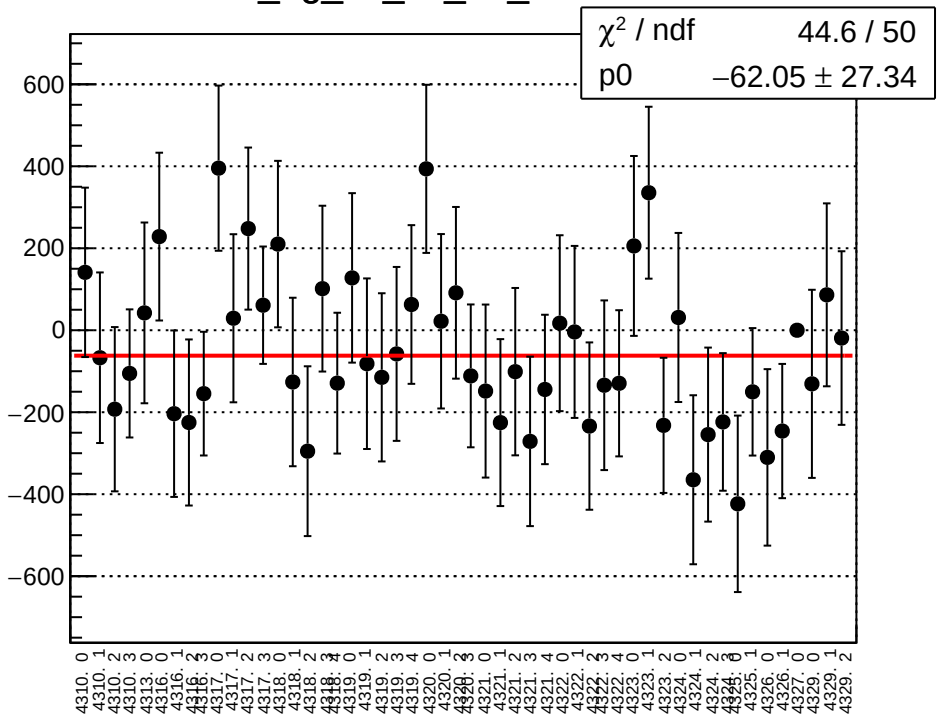

pull1D
Entries 52
Mean −0.00765
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds_dd_rms vs run
χ² / ndf 2152 / 50
p0 14.45 ± 0.01417
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 42.69 / 50
p0 −36.91 ± 27.73
800
600
400
200
0
−200
−400
−600
−800


pull1D
Entries 52
Mean 0.007976
Std Dev 0.9149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1376 / 50
p0 20 ± 0.01961
24
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


bcm_dg_us_ds_dd_mean vs run
χ² / ndf 44.6 / 50
p0 −62.05 ± 27.34
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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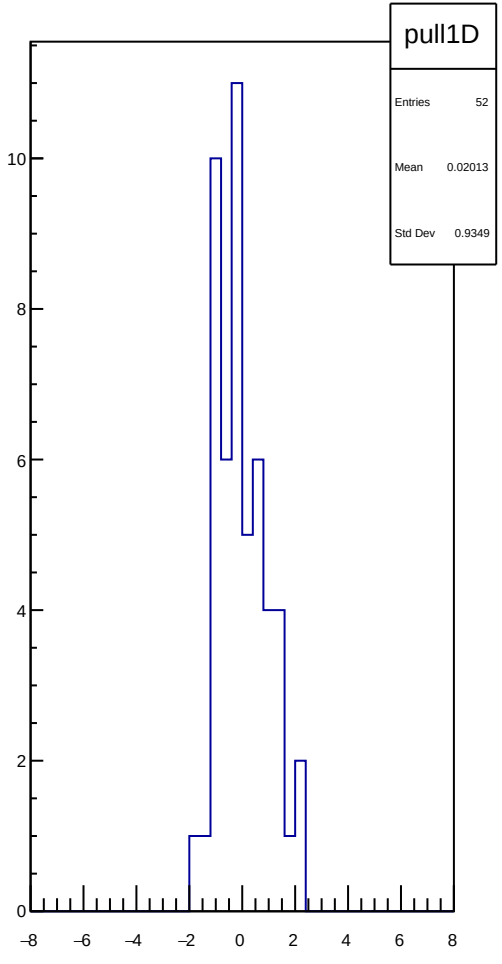
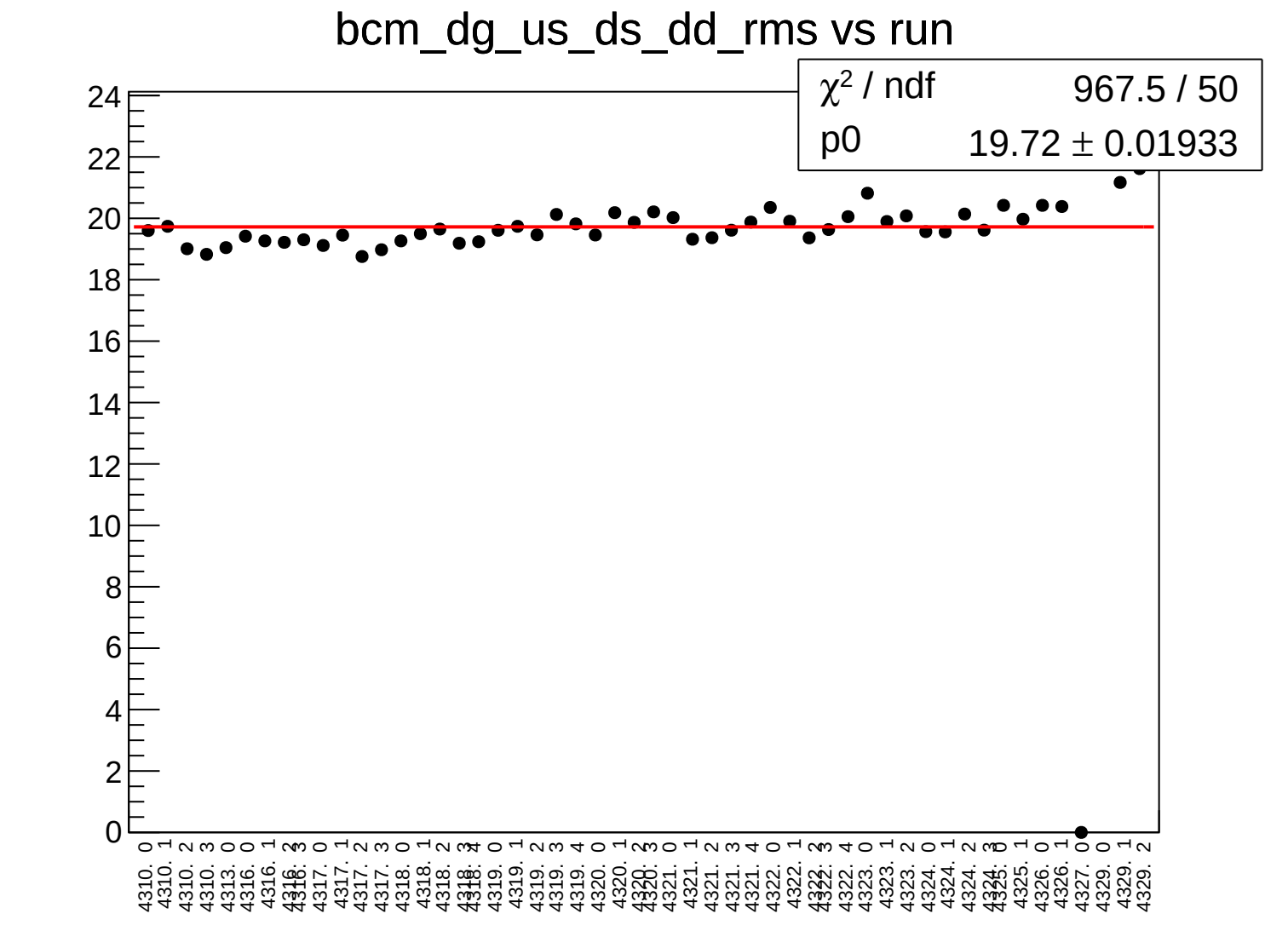
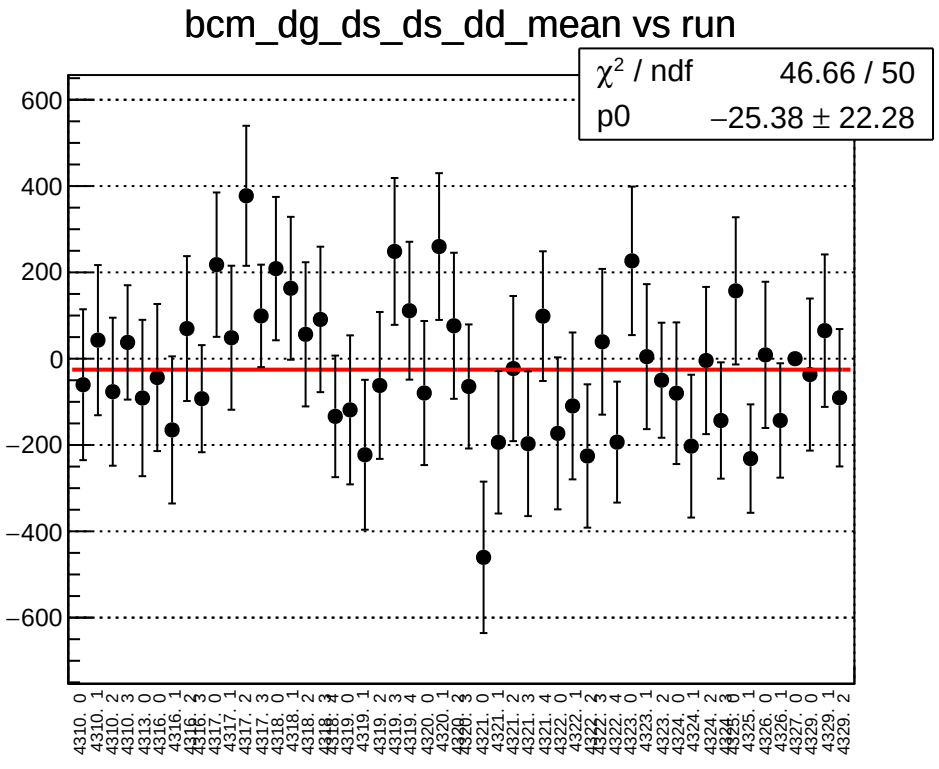
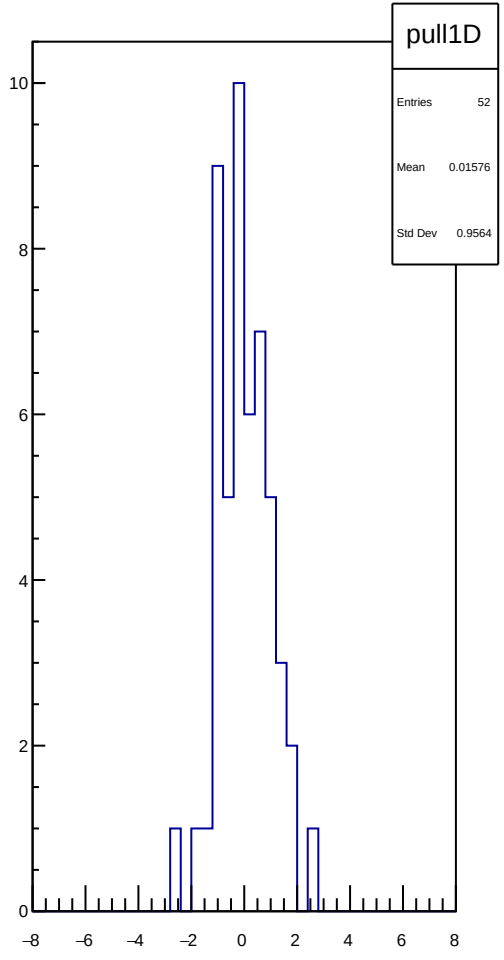
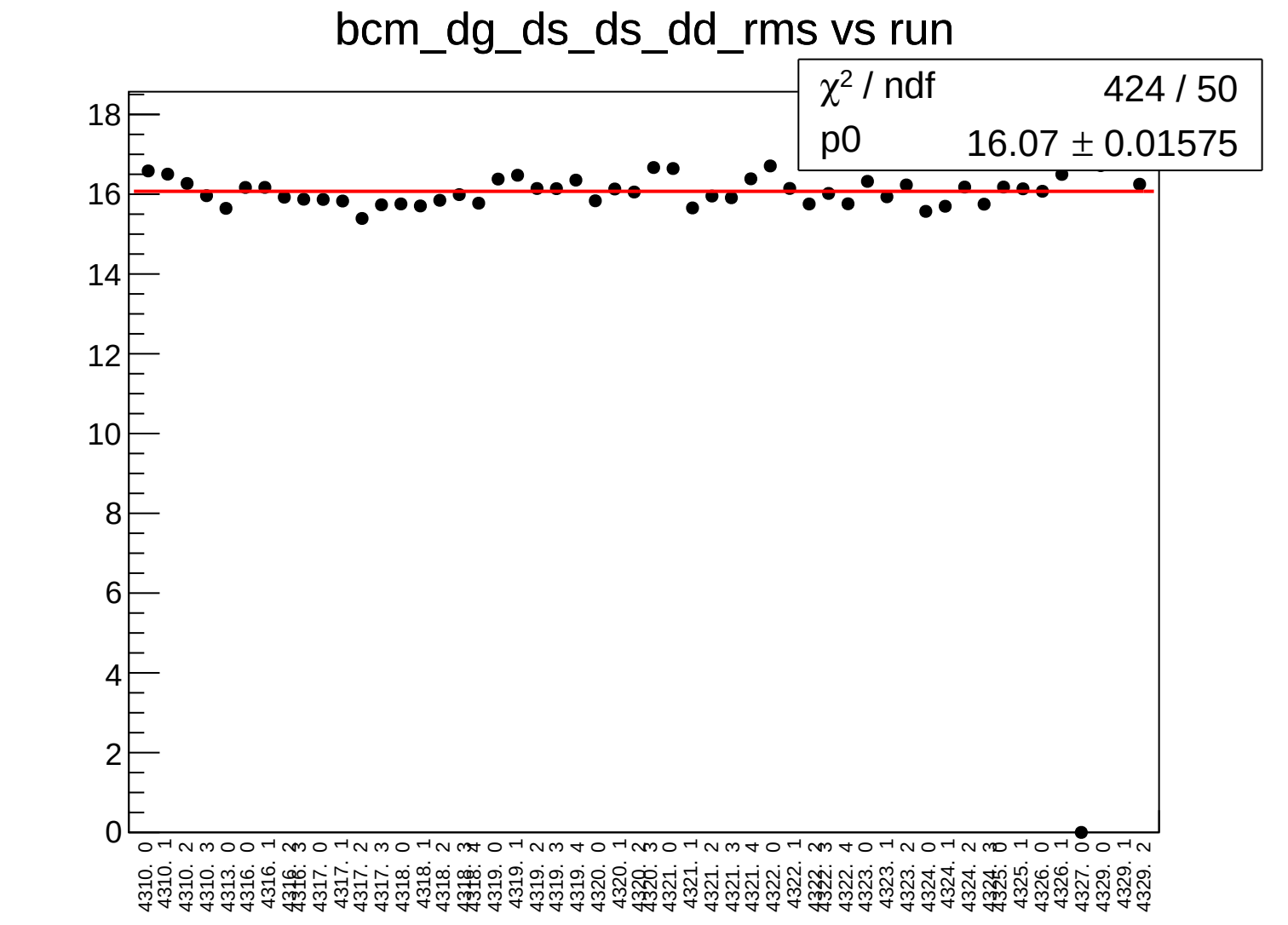
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

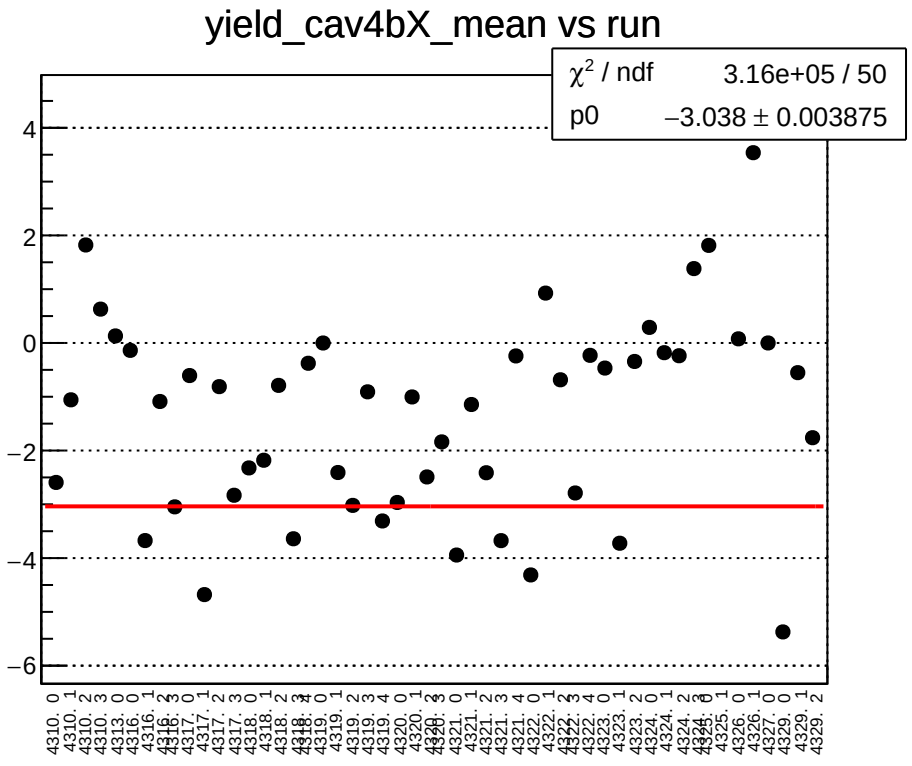

pull1D
Entries 52
Mean 0.02013
Std Dev 0.9349
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

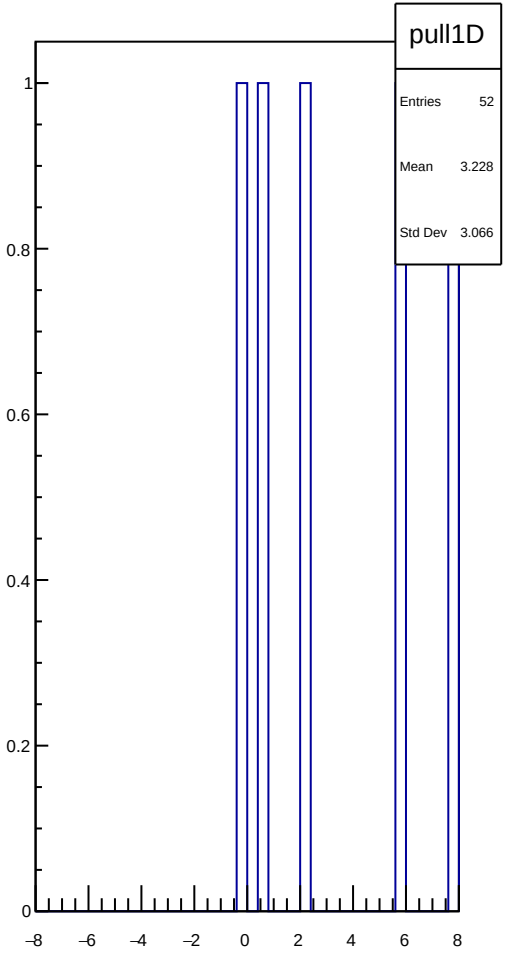

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 967.5 / 50
p0 19.72 ± 0.01933
24
22
20
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

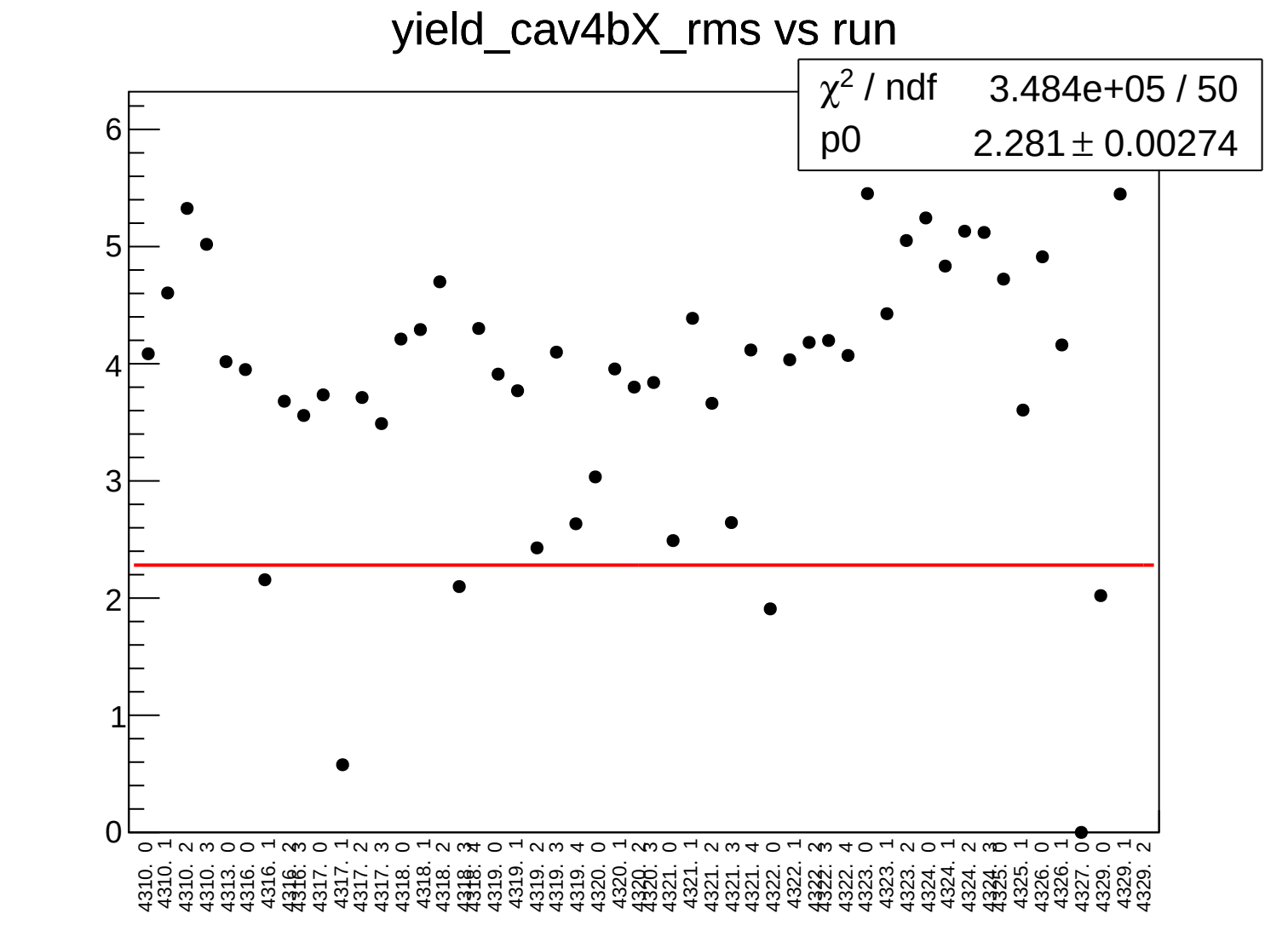

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 46.66 / 50
p0 −25.38 ± 22.28
600
400
200
0
−200
−400
−600
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

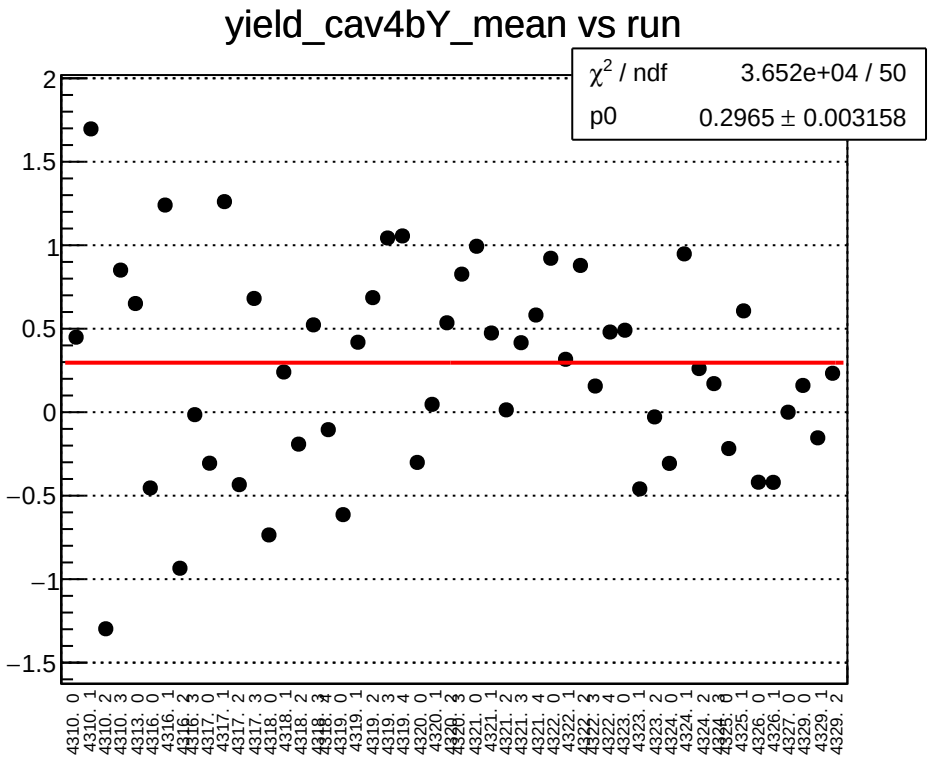

pull1D
Entries 52
Mean 0.01576
Std Dev 0.9564
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

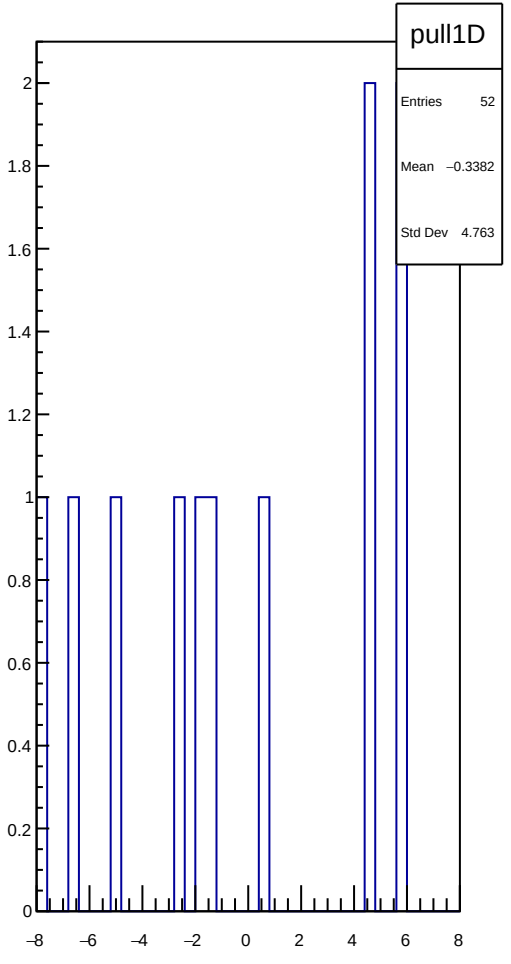

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 424 / 50
p0 16.07 ± 0.01575
18
16
14
12
10
8
6
4
2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

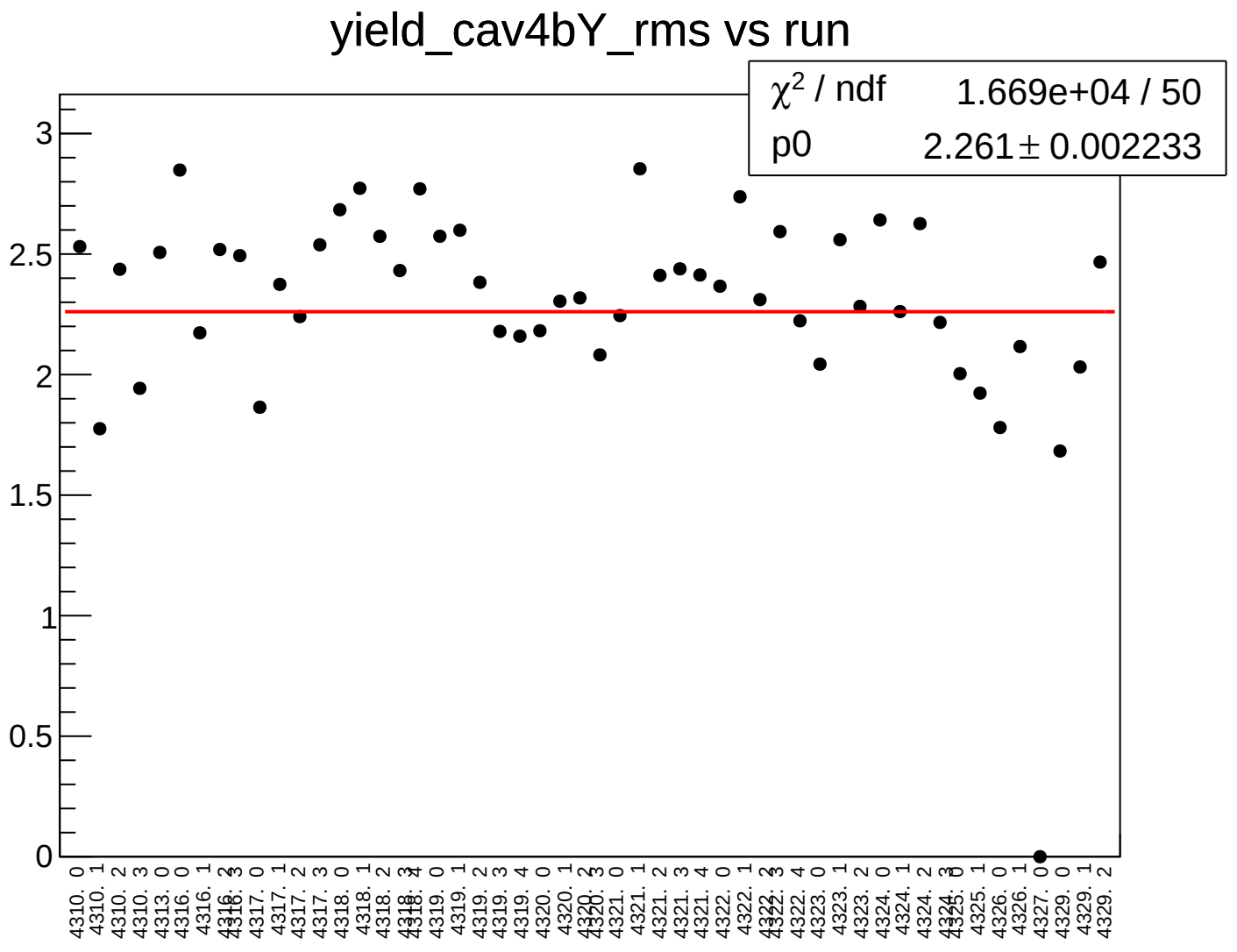

yield_cav4bX_mean vs run
χ² / ndf 3.16e+05 / 50
p0 −3.038 ± 0.003875
4
2
0
−2
−4
−6
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

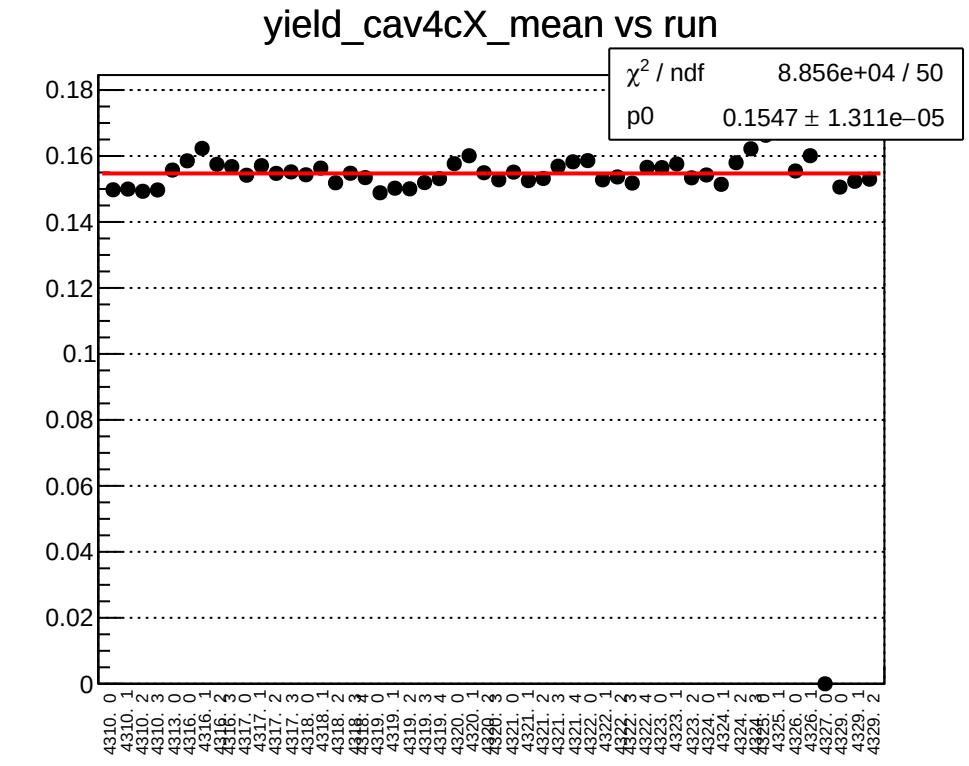

pull1D
Entries 52
Mean 3.228
Std Dev 3.066
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

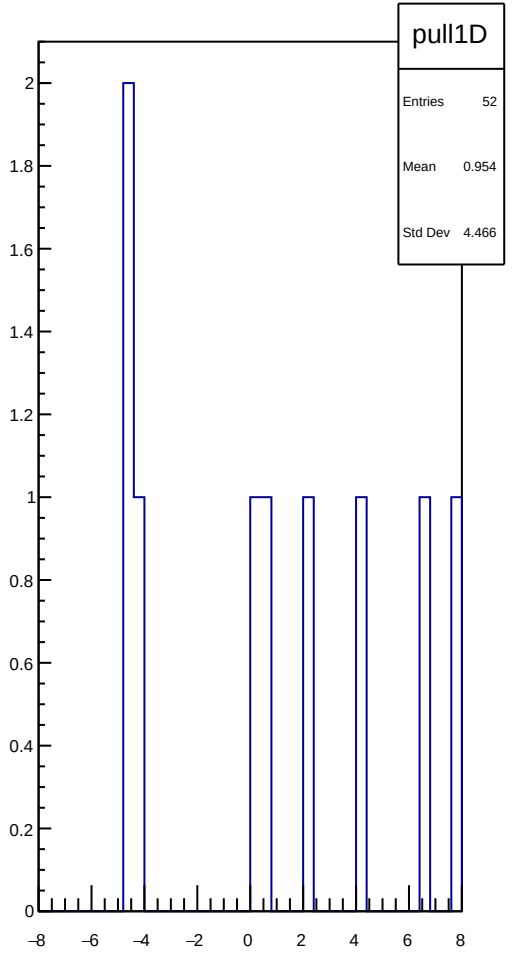

yield_cav4bX_rms vs run
χ² / ndf 3.484e+05 / 50
p0 2.281 ± 0.00274
6
5
4
3
2
1
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

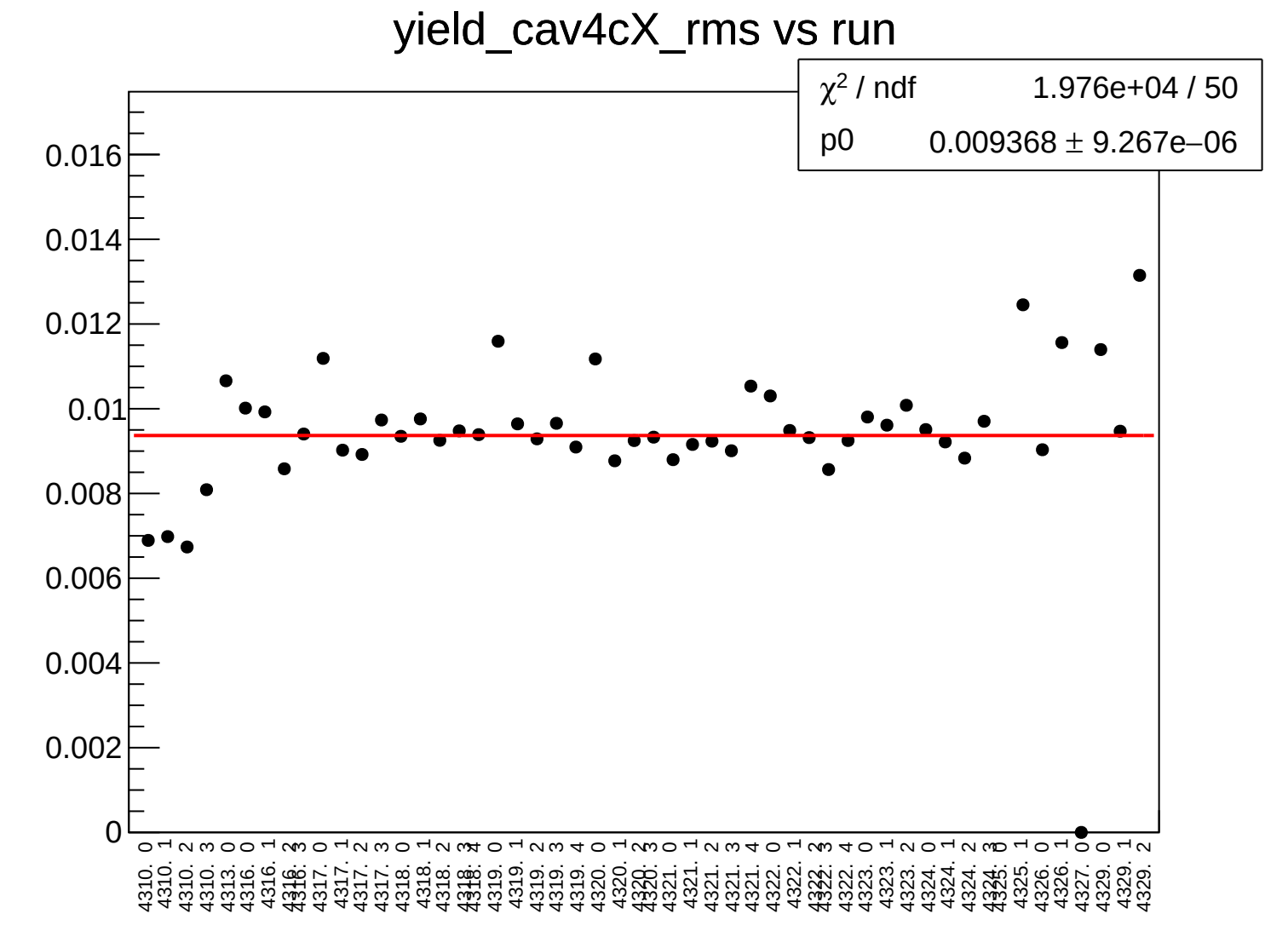

yield_cav4bY_mean vs run
χ² / ndf 3.652e+04 / 50
p0 0.2965 ± 0.003158
2
1.5
1
0.5
0
−0.5
−1
−1.5

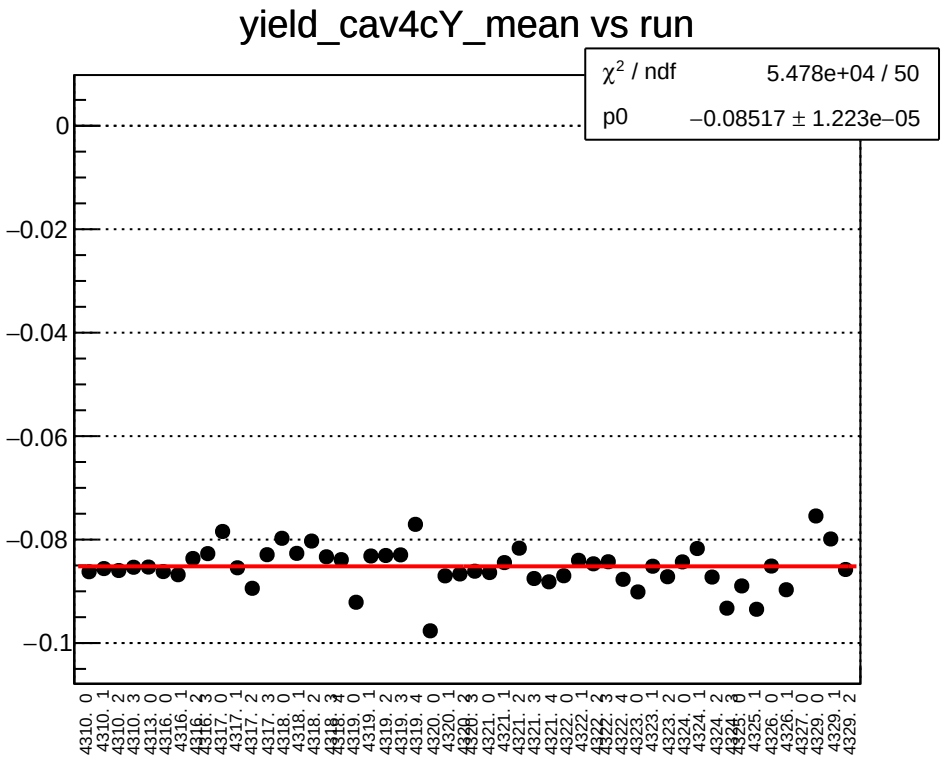

pull1D
Entries 52
Mean −0.3382
Std Dev 4.763
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

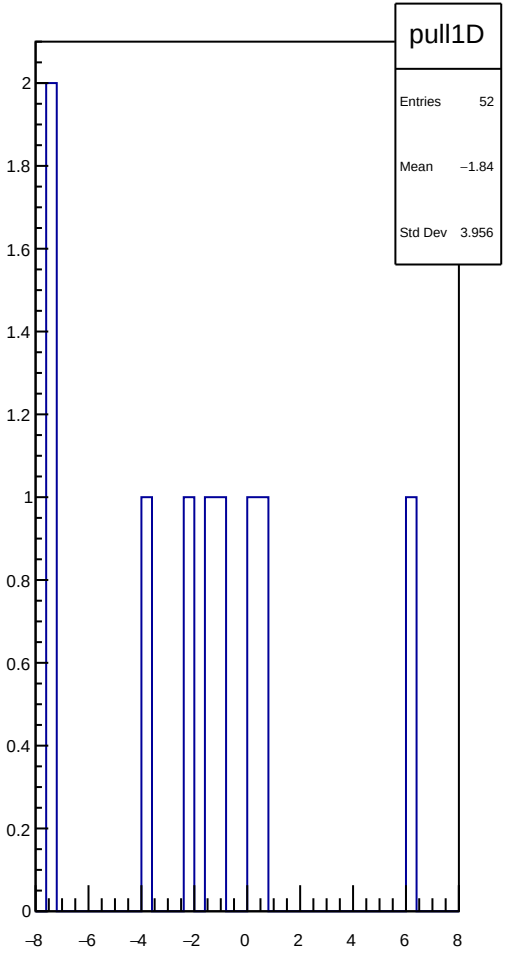

yield_cav4bY_rms vs run
χ² / ndf 1.669e+04 / 50
p0 2.261 ± 0.002233
3
2.5
2
1.5
1
0.5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

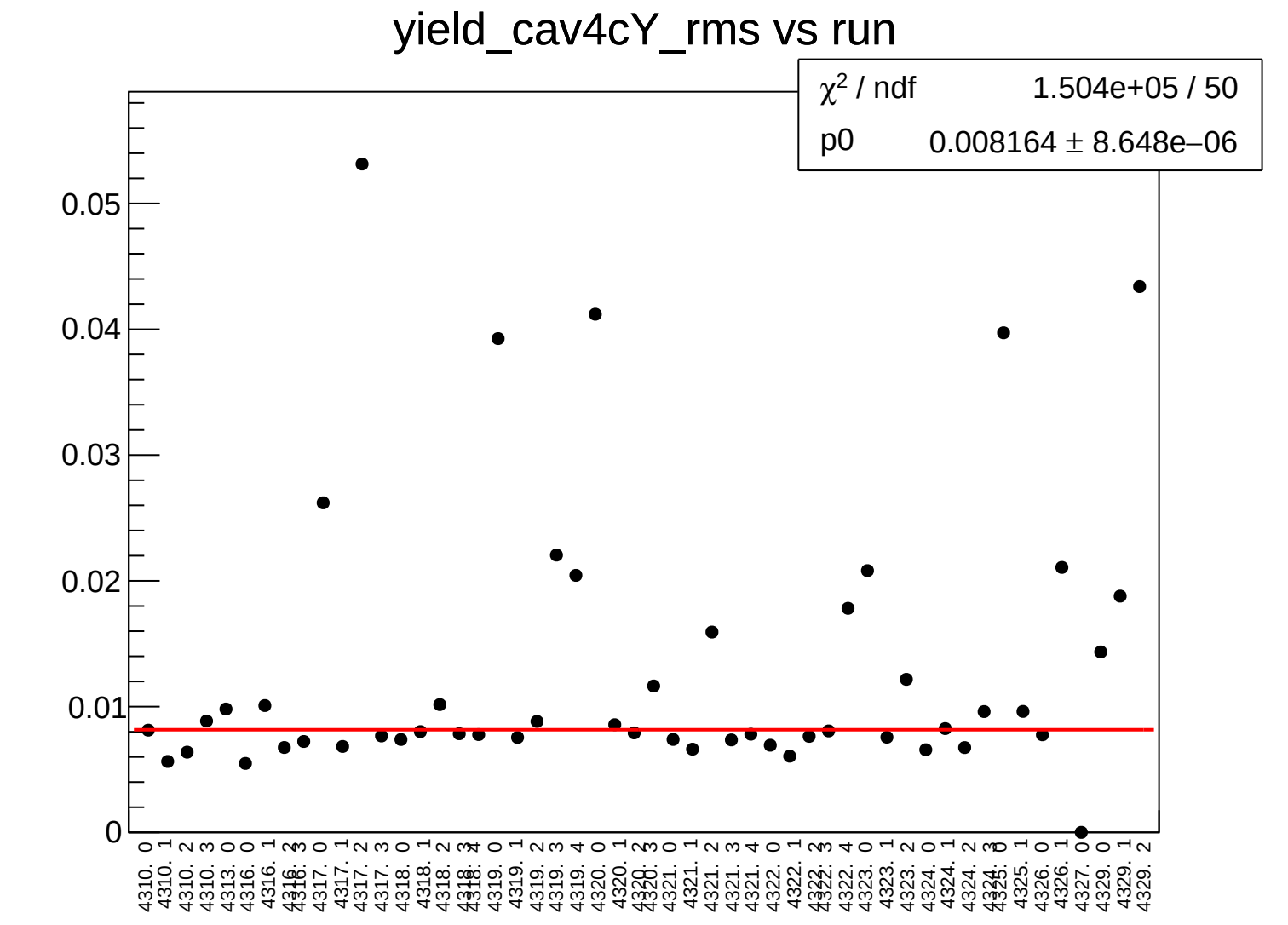

yield_cav4cX_mean vs run
χ² / ndf 8.856e+04 / 50
p0 0.1547 ± 1.311e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4316. 4
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

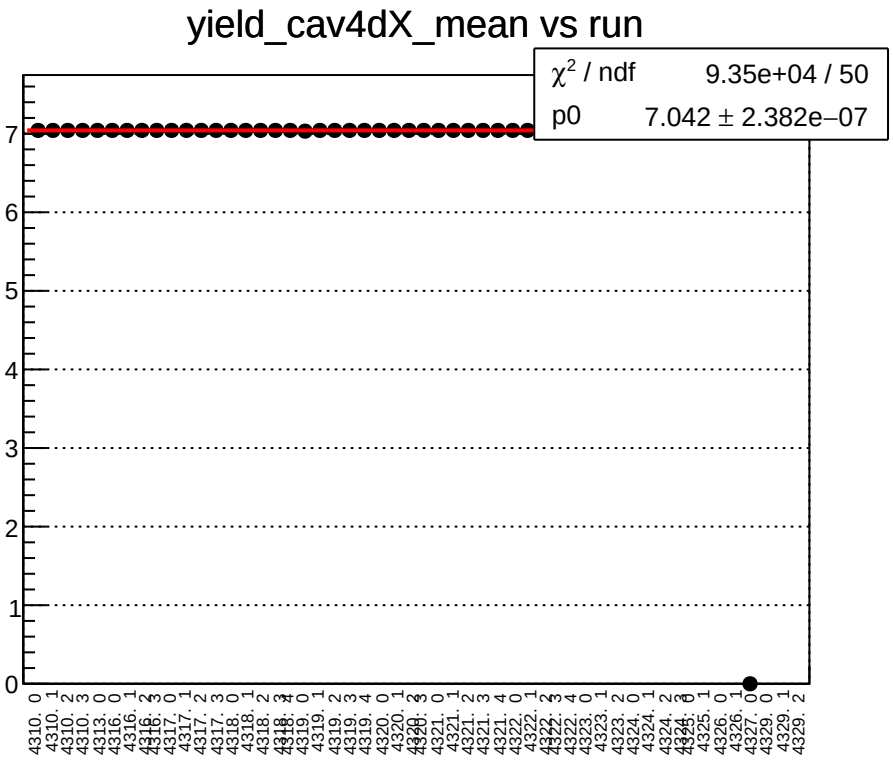

pull1D
Entries 52
Mean 0.954
Std Dev 4.466
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

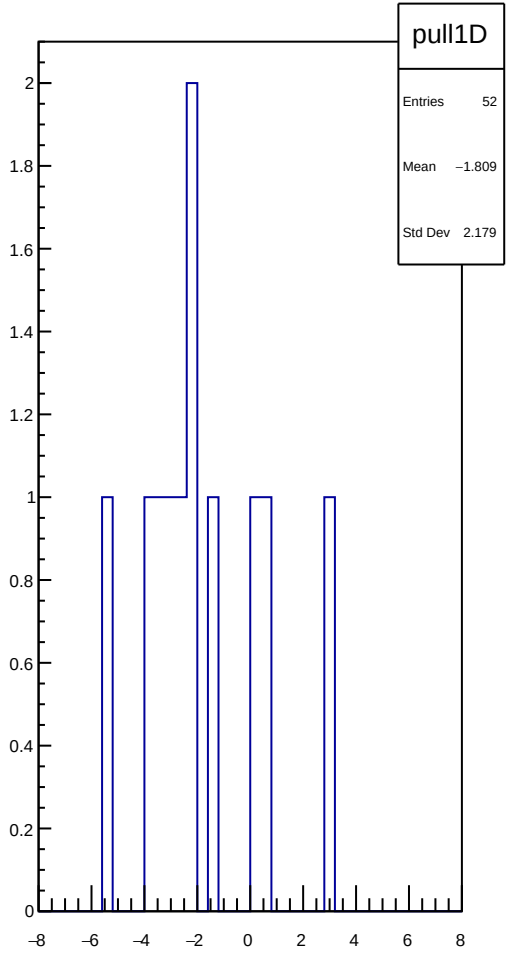

yield_cav4cX_rms vs run
χ² / ndf 1.976e+04 / 50
p0 0.009368 ± 9.267e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

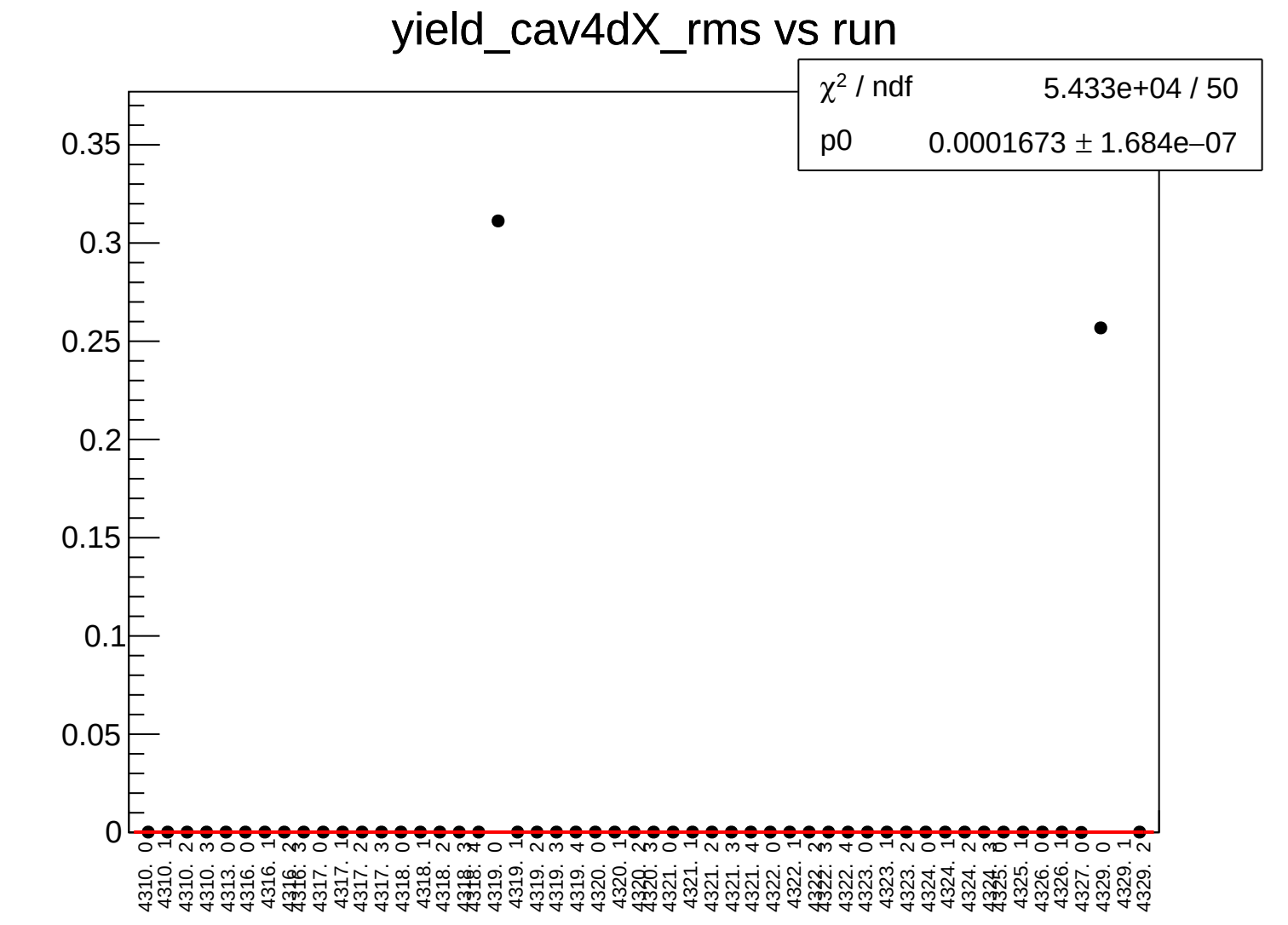

yield_cav4cY_mean vs run
χ² / ndf 5.478e+04 / 50
p0 −0.08517 ± 1.223e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

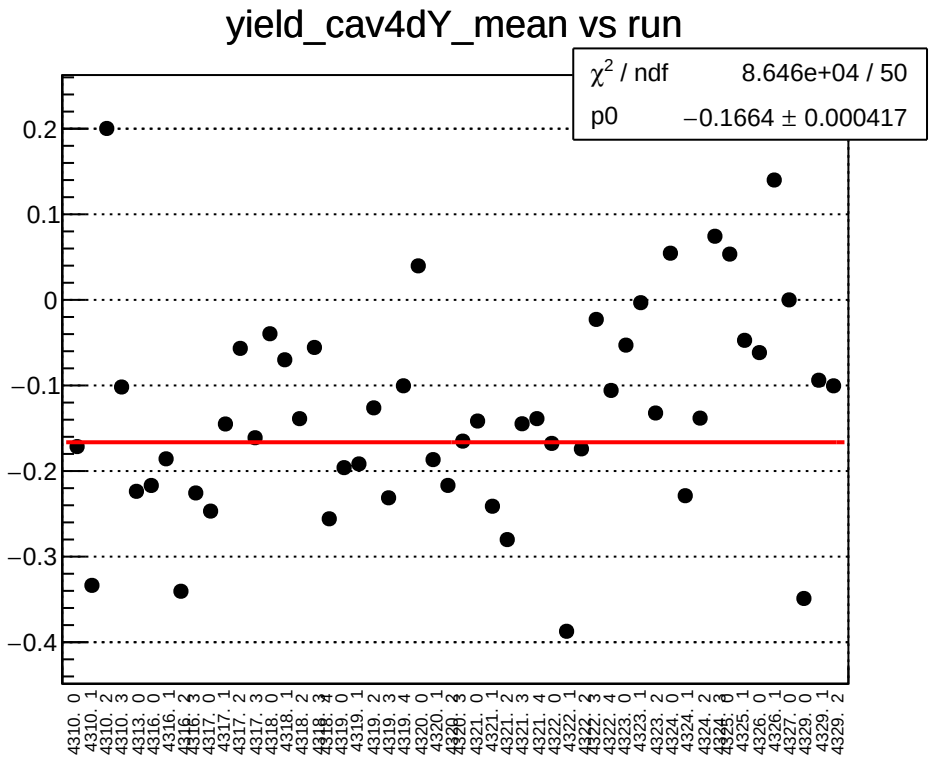

pull1D
Entries 52
Mean −1.84
Std Dev 3.956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

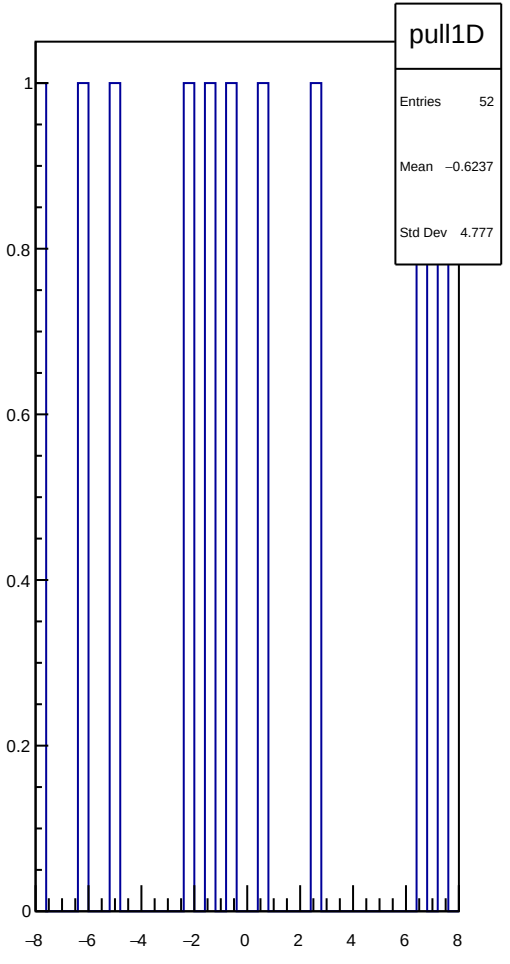

yield_cav4cY_rms vs run
χ² / ndf 1.504e+05 / 50
p0 0.008164 ± 8.648e−06
0.05
0.04
0.03
0.02
0.01
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

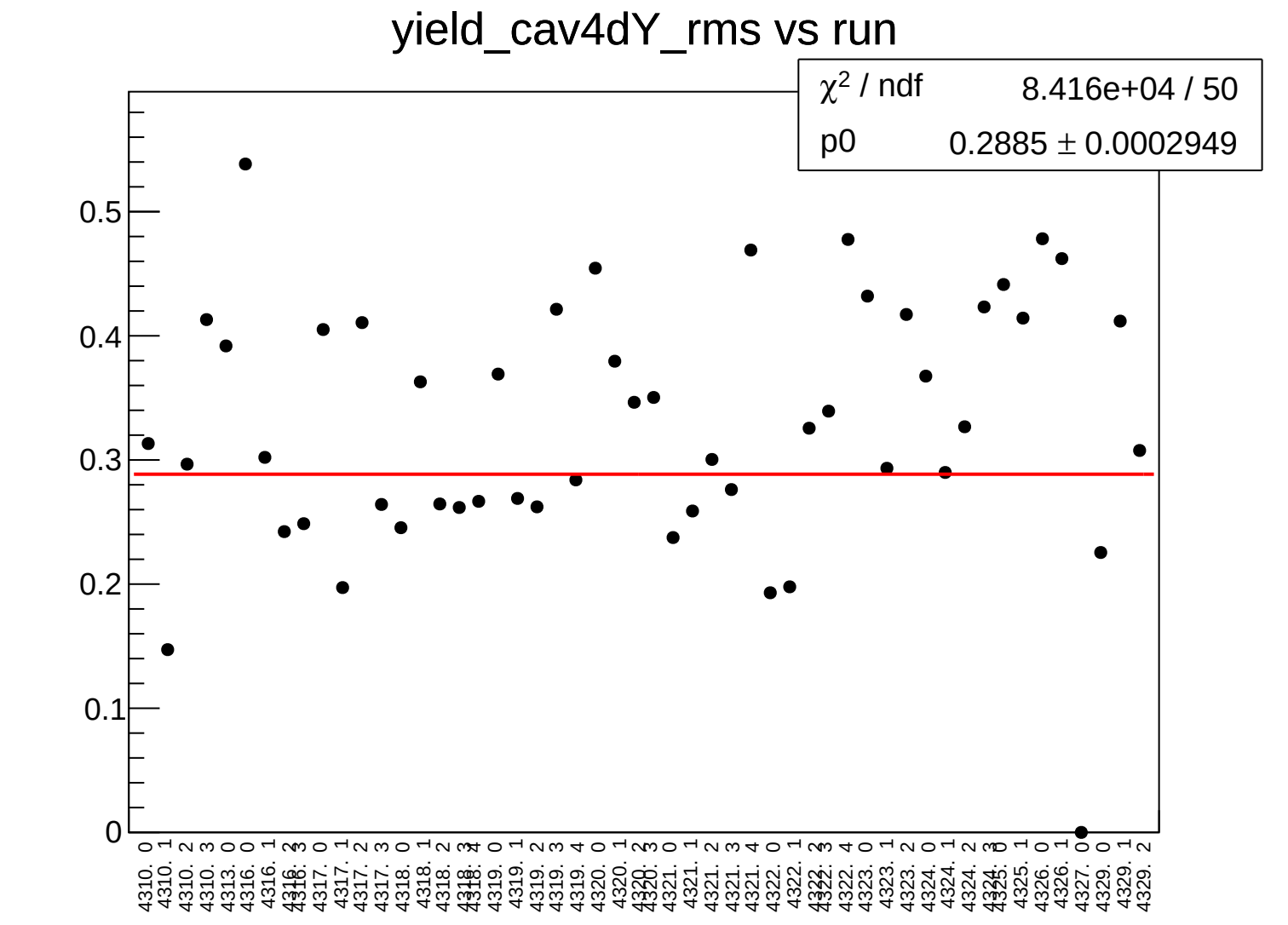

yield_cav4dX_mean vs run
χ² / ndf 9.35e+04 / 50
p0 7.042 ± 2.382e−07
0
1
2
3
4
5
6
7
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

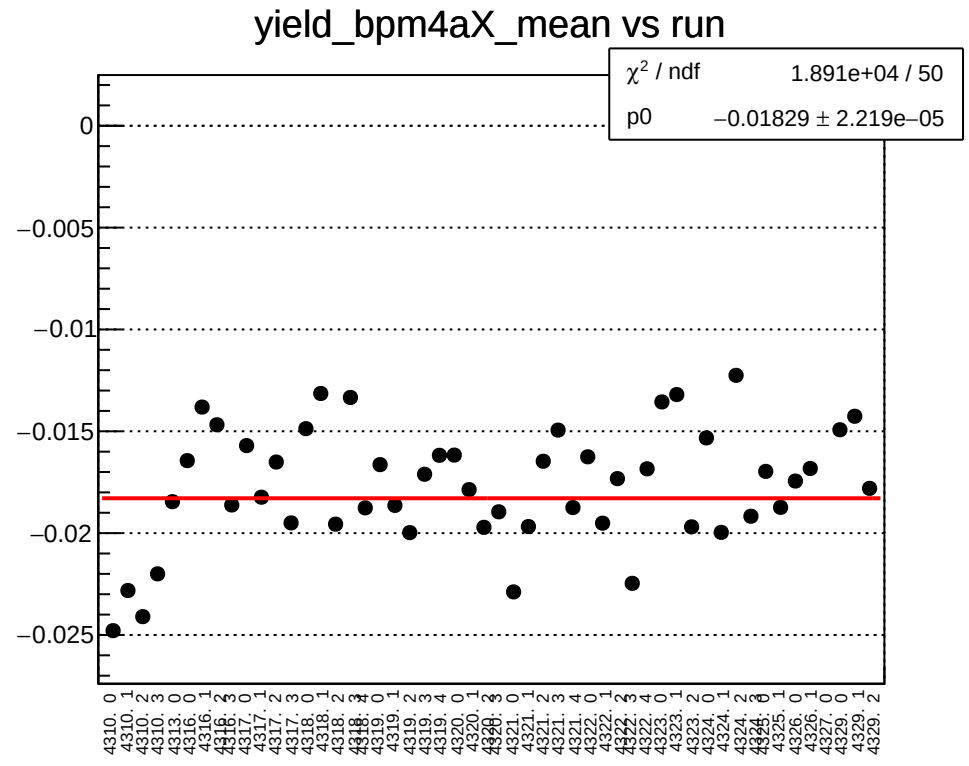

pull1D
Entries 52
Mean −1.809
Std Dev 2.179
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
−8
−6
−4
−2
0
2
4
6
8

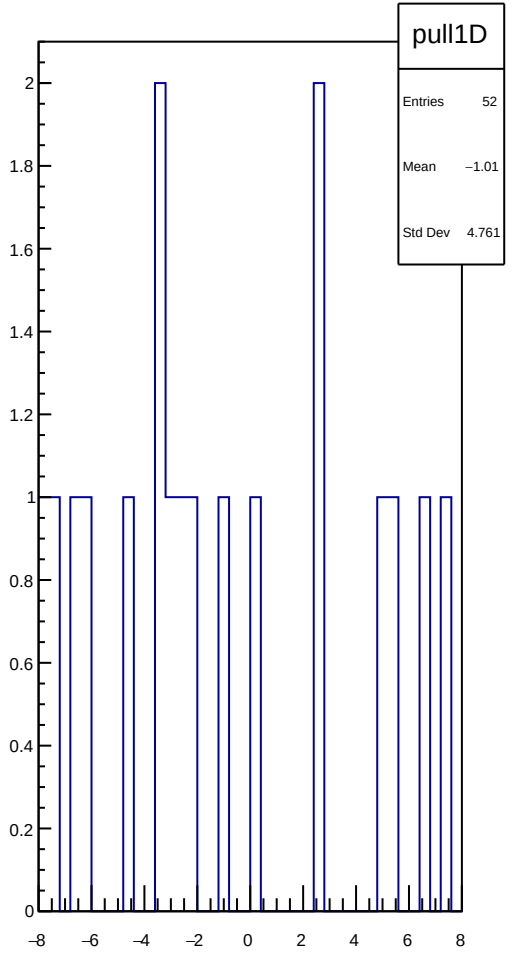

yield_cav4dX_rms vs run
χ² / ndf 5.433e+04 / 50
p0 0.0001673 ± 1.684e−07
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

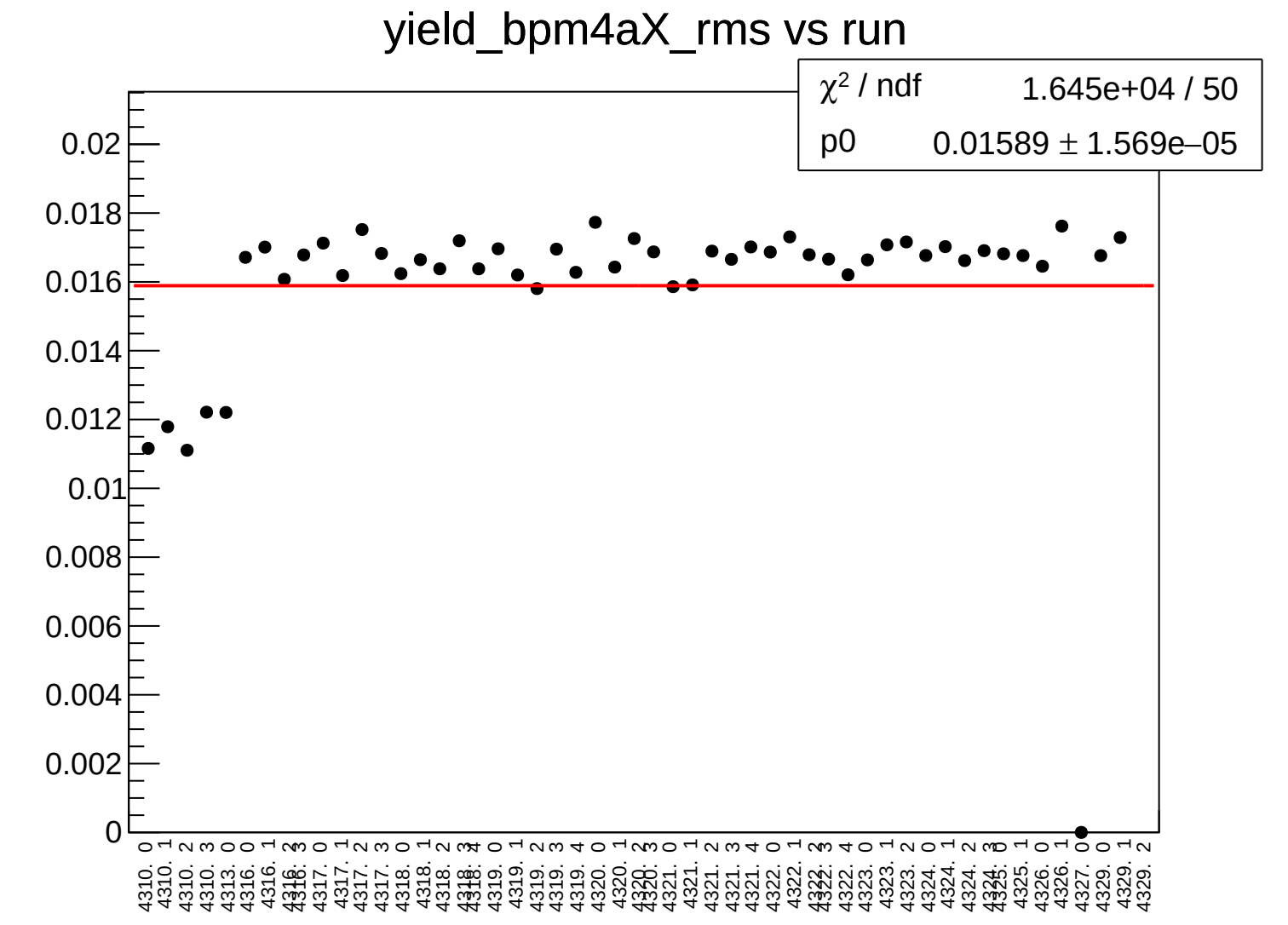

yield_cav4dY_mean vs run
χ² / ndf 8.646e+04 / 50
p0 −0.1664 ± 0.000417
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

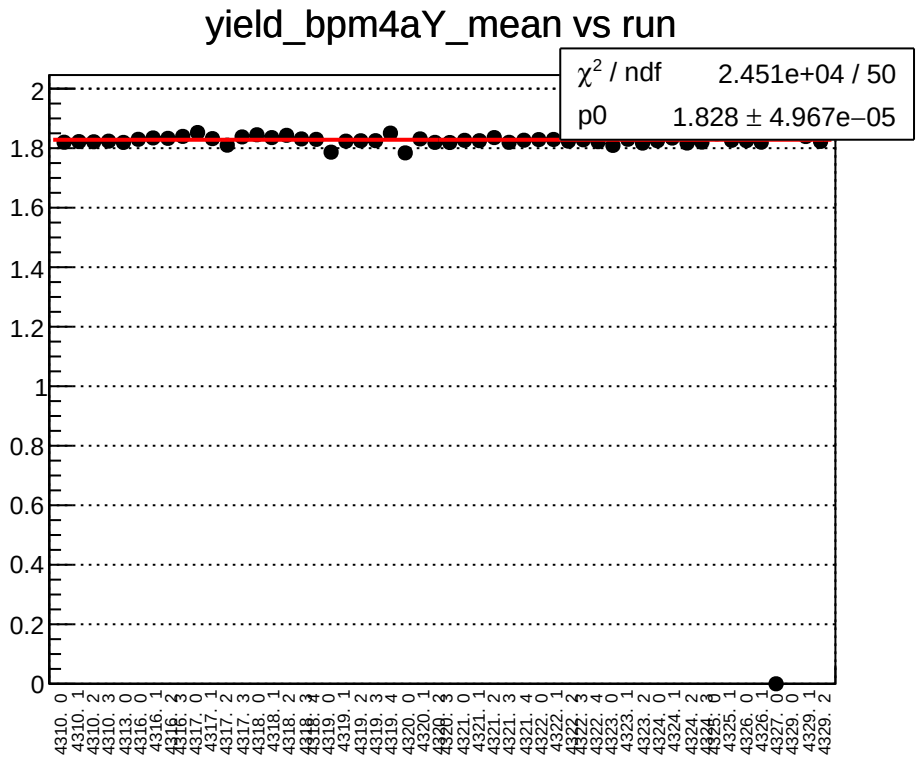

pull1D
Entries 52
Mean −0.6237
Std Dev 4.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

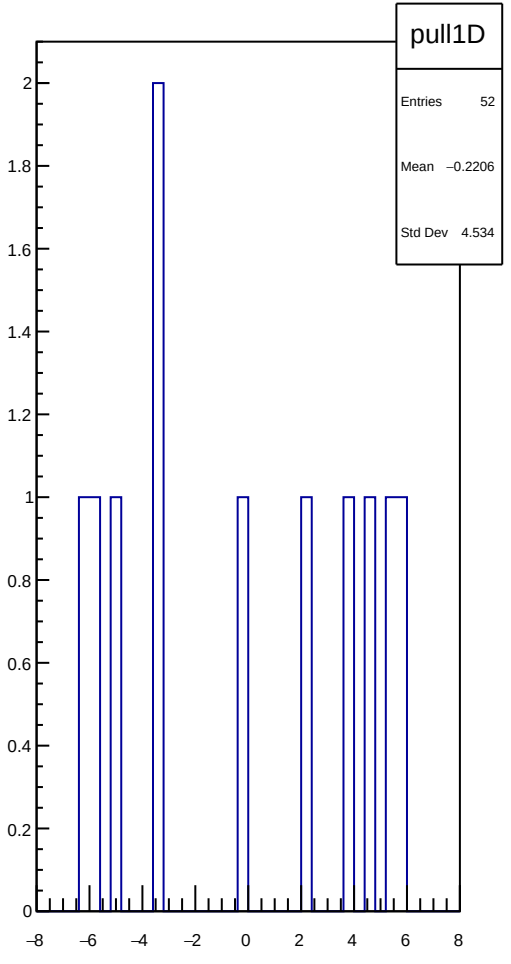

yield_cav4dY_rms vs run
χ² / ndf 8.416e+04 / 50
p0 0.2885 ± 0.0002949
0.5
0.4
0.3
0.2
0.1
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

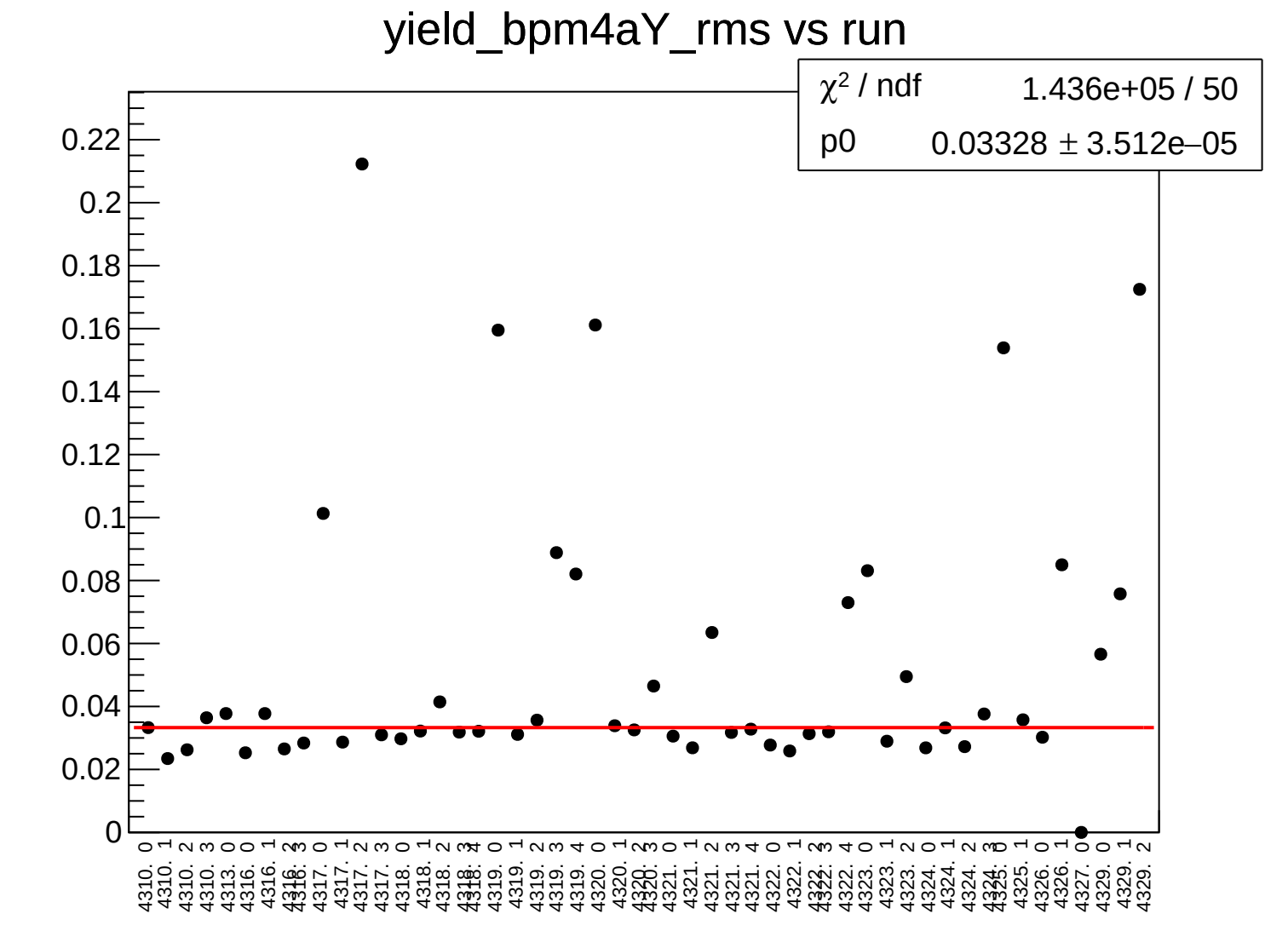

yield_bpm4aX_mean vs run
χ² / ndf 1.891e+04 / 50
p0 −0.01829 ± 2.219e−05
0
−0.005
−0.01
−0.015
−0.02
−0.025

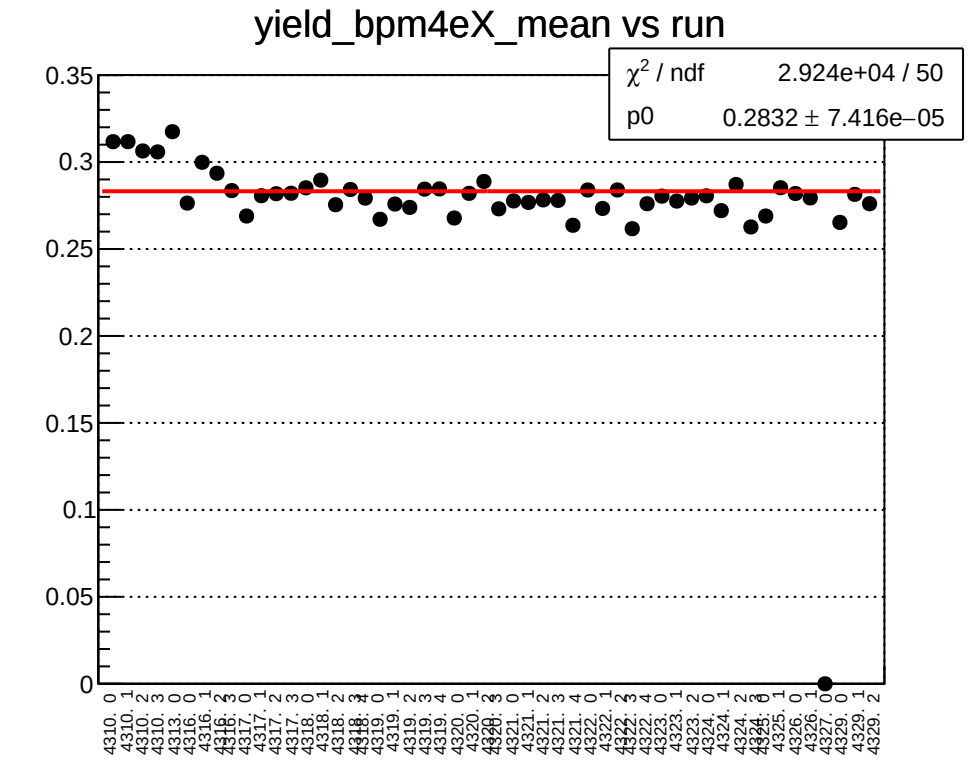

pull1D
Entries 52
Mean −1.01
Std Dev 4.761
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aX_rms vs run
χ² / ndf 1.645e+04 / 50
p0 0.01589 ± 1.569e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_bpm4aY_mean vs run
χ² / ndf 2.451e+04 / 50
p0 1.828 ± 4.967e−05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.2206
Std Dev 4.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 1.436e+05 / 50
p0 0.03328 ± 3.512e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


yield_bpm4eX_mean vs run
χ² / ndf 2.924e+04 / 50
p0 0.2832 ± 7.416e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
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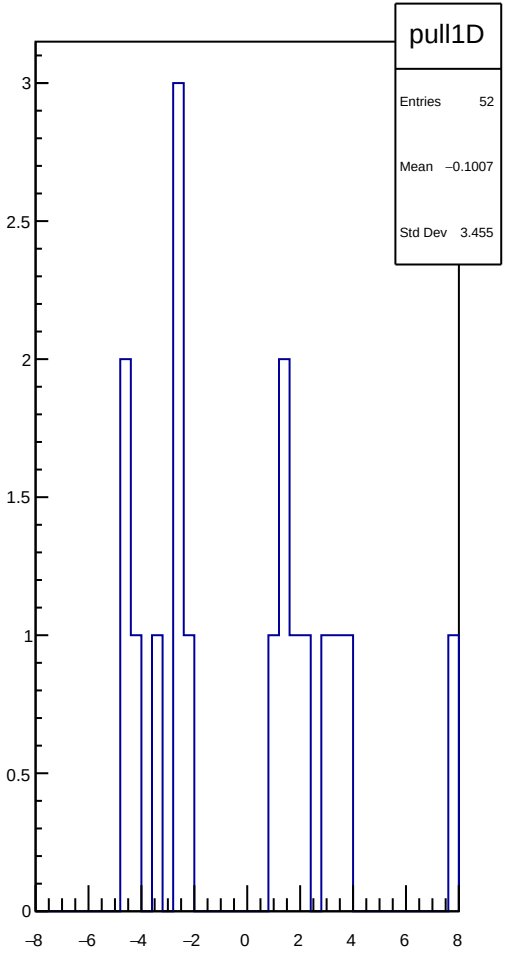
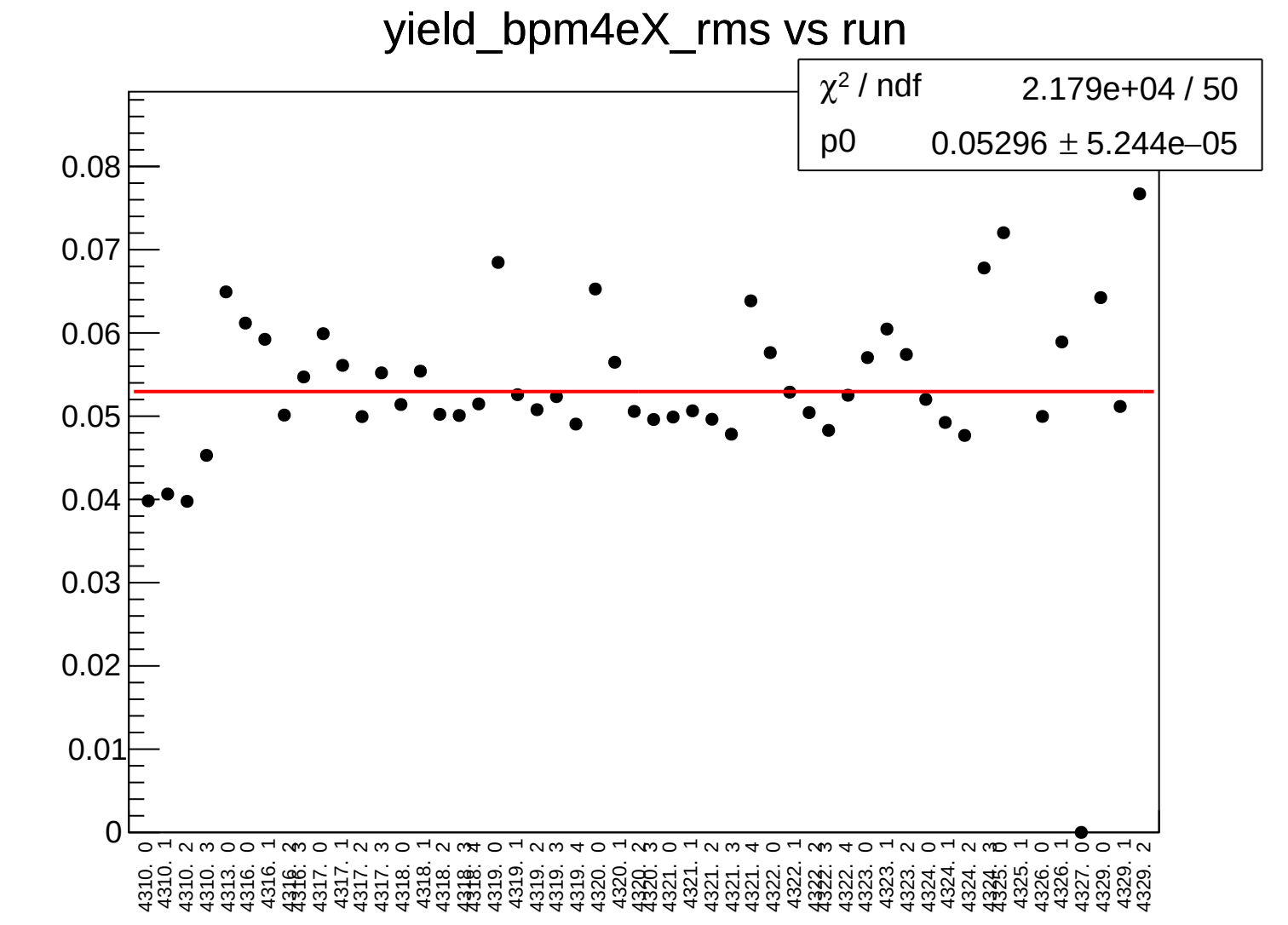
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.1007
Std Dev 3.455
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 2.179e+04 / 50
p0 0.05296 ± 5.244e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
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4318. 1
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4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
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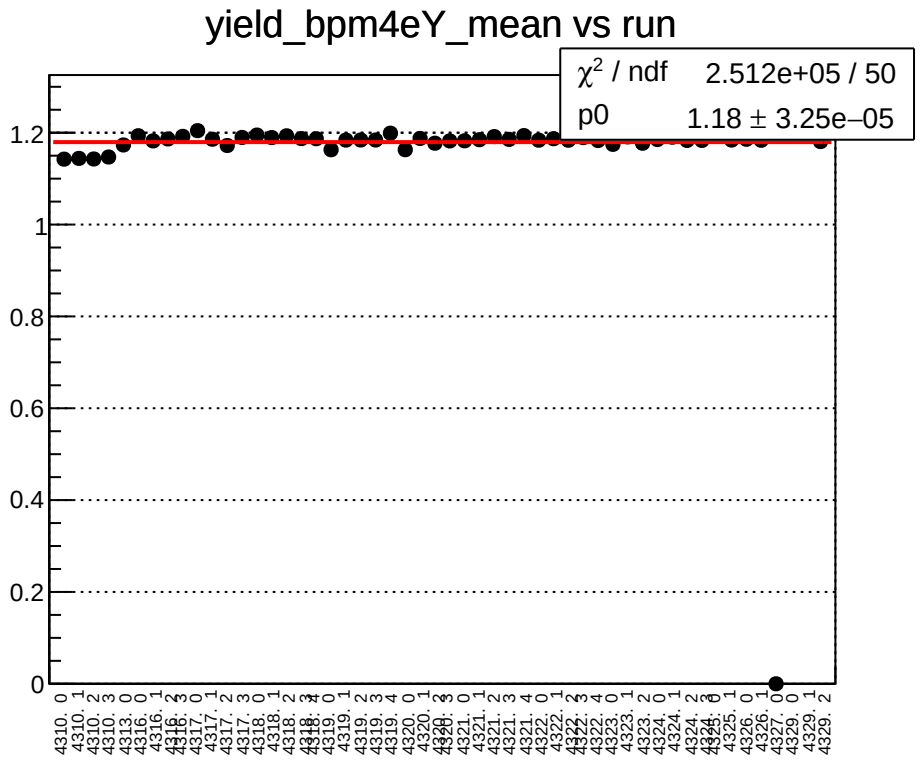
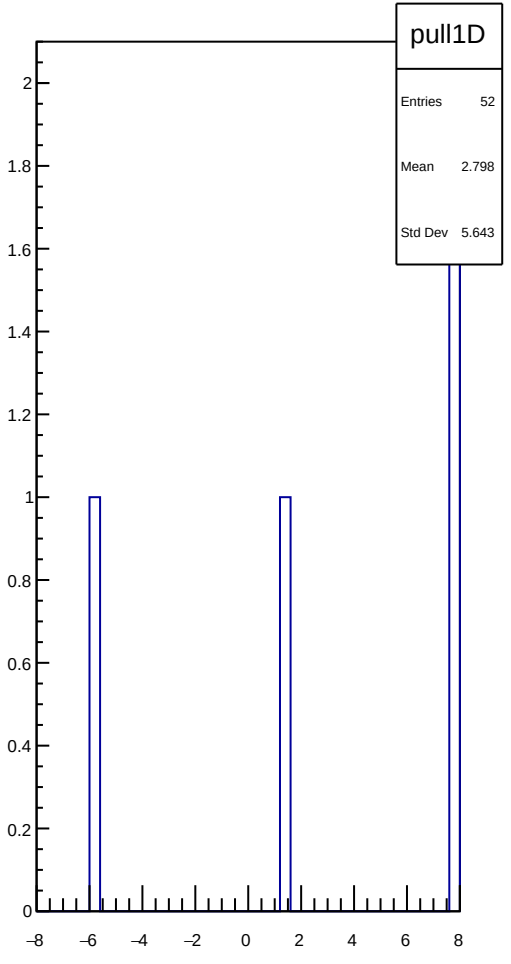
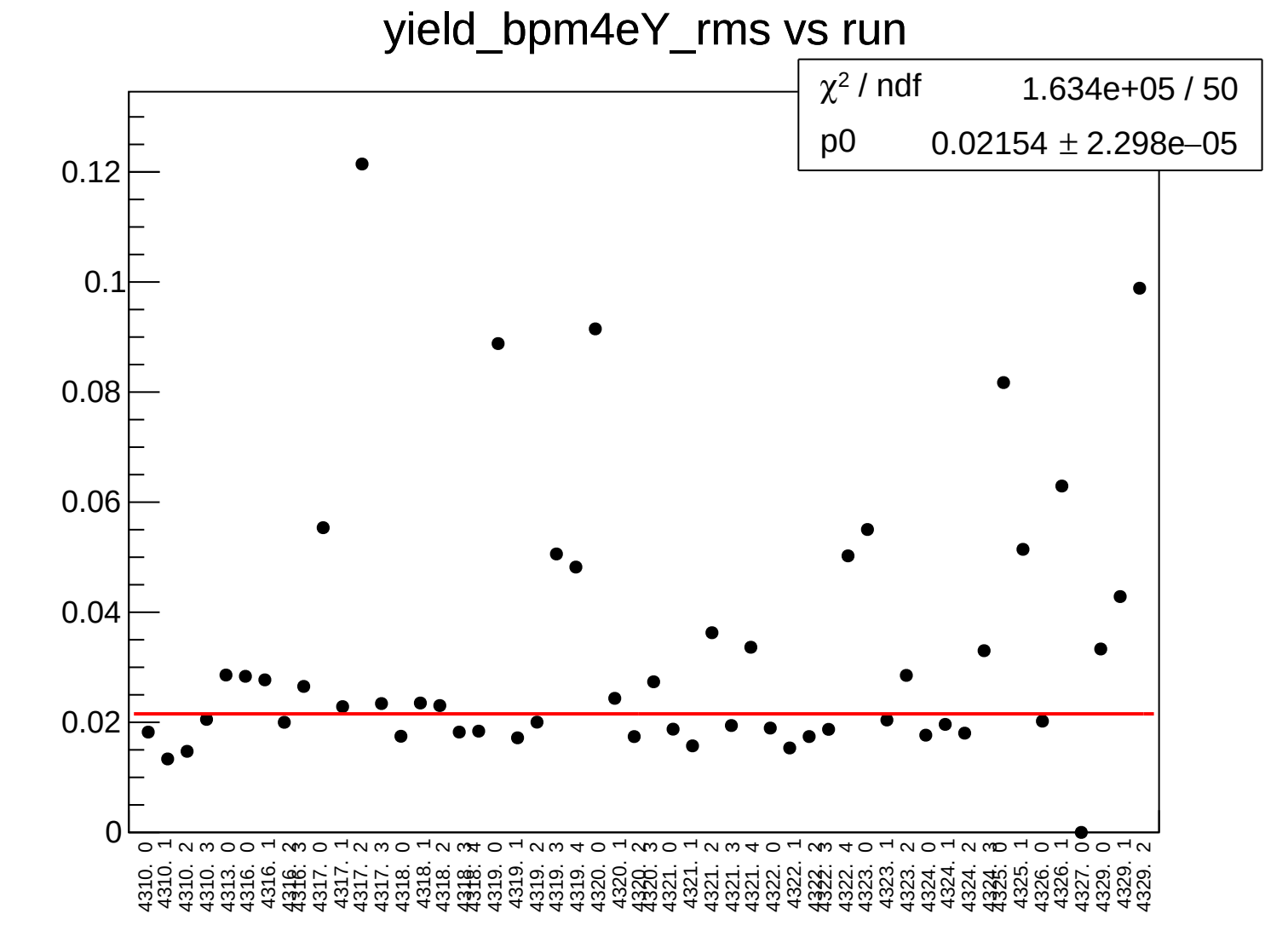
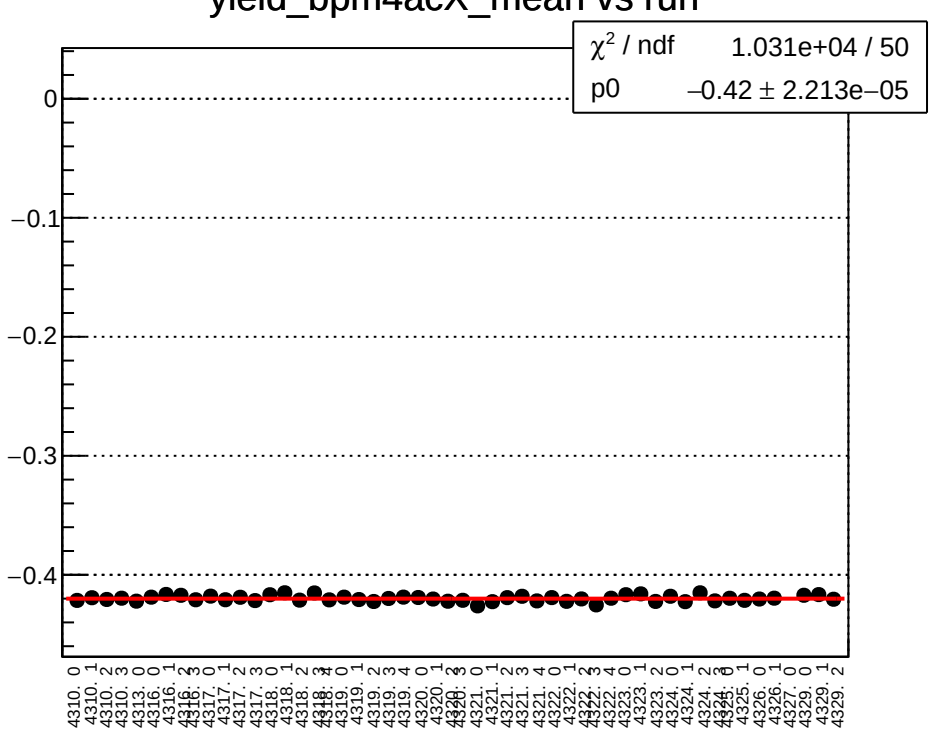
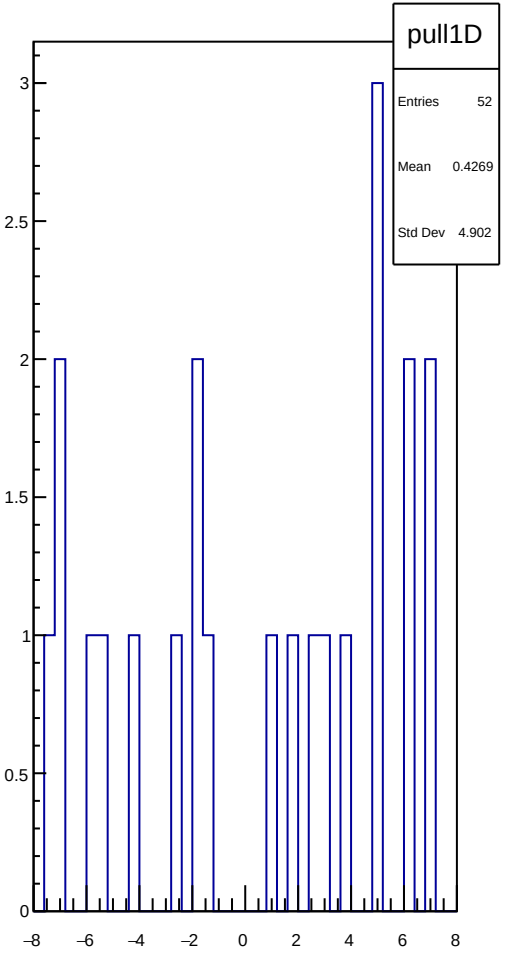
4329. 1
4329. 2

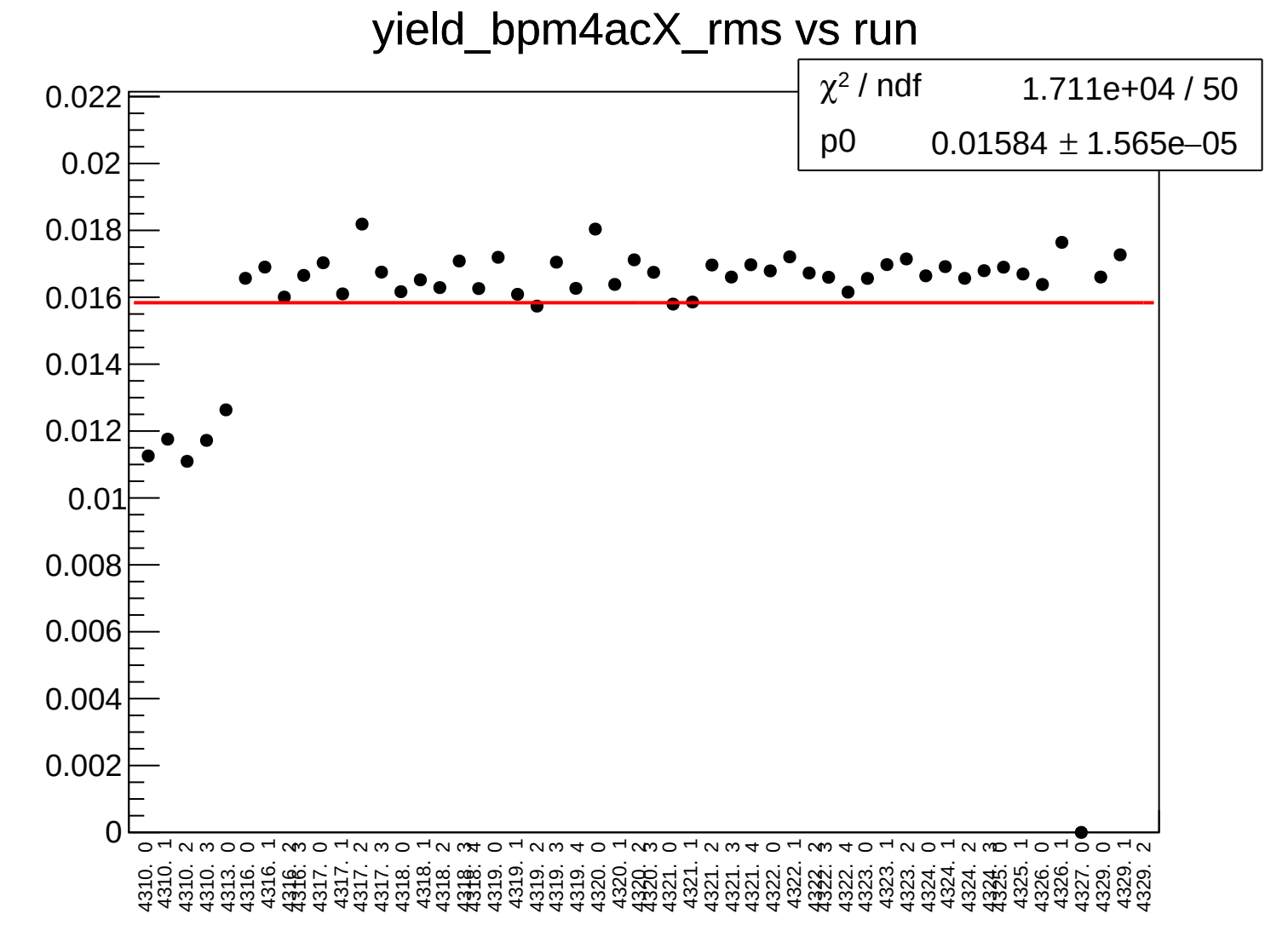

yield_bpm4eY_mean vs run
χ² / ndf 2.512e+05 / 50
p0 1.18 ± 3.25e−05
1.2
1
0.8
0.6
0.4
0.2
0

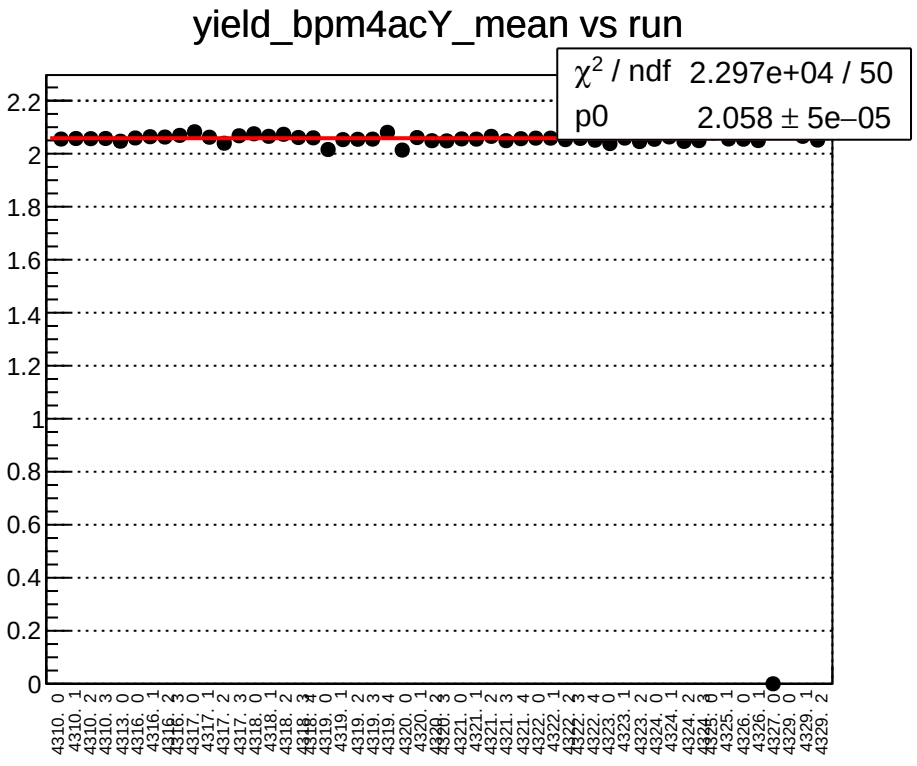

pull1D
Entries 52
Mean 2.798
Std Dev 5.643
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

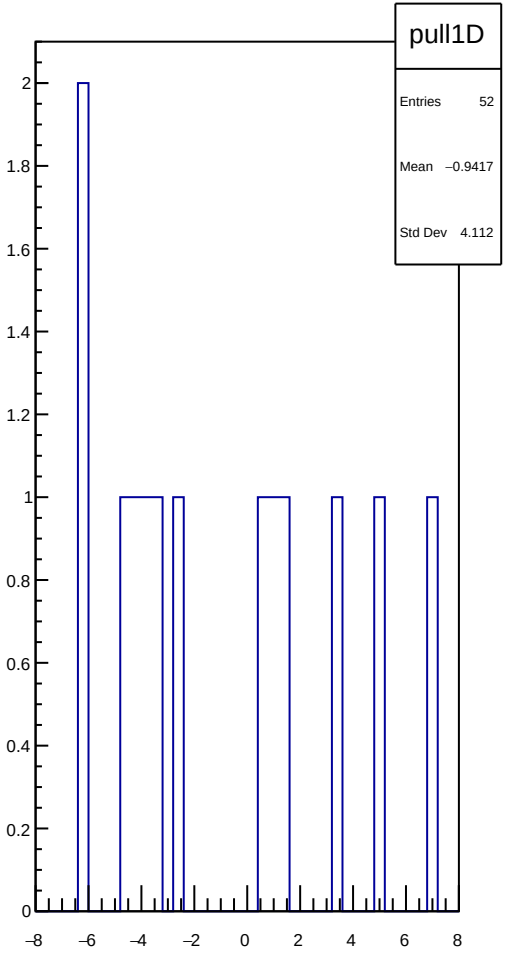

yield_bpm4eY_rms vs run
χ² / ndf 1.634e+05 / 50
p0 0.02154 ± 2.298e–05
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

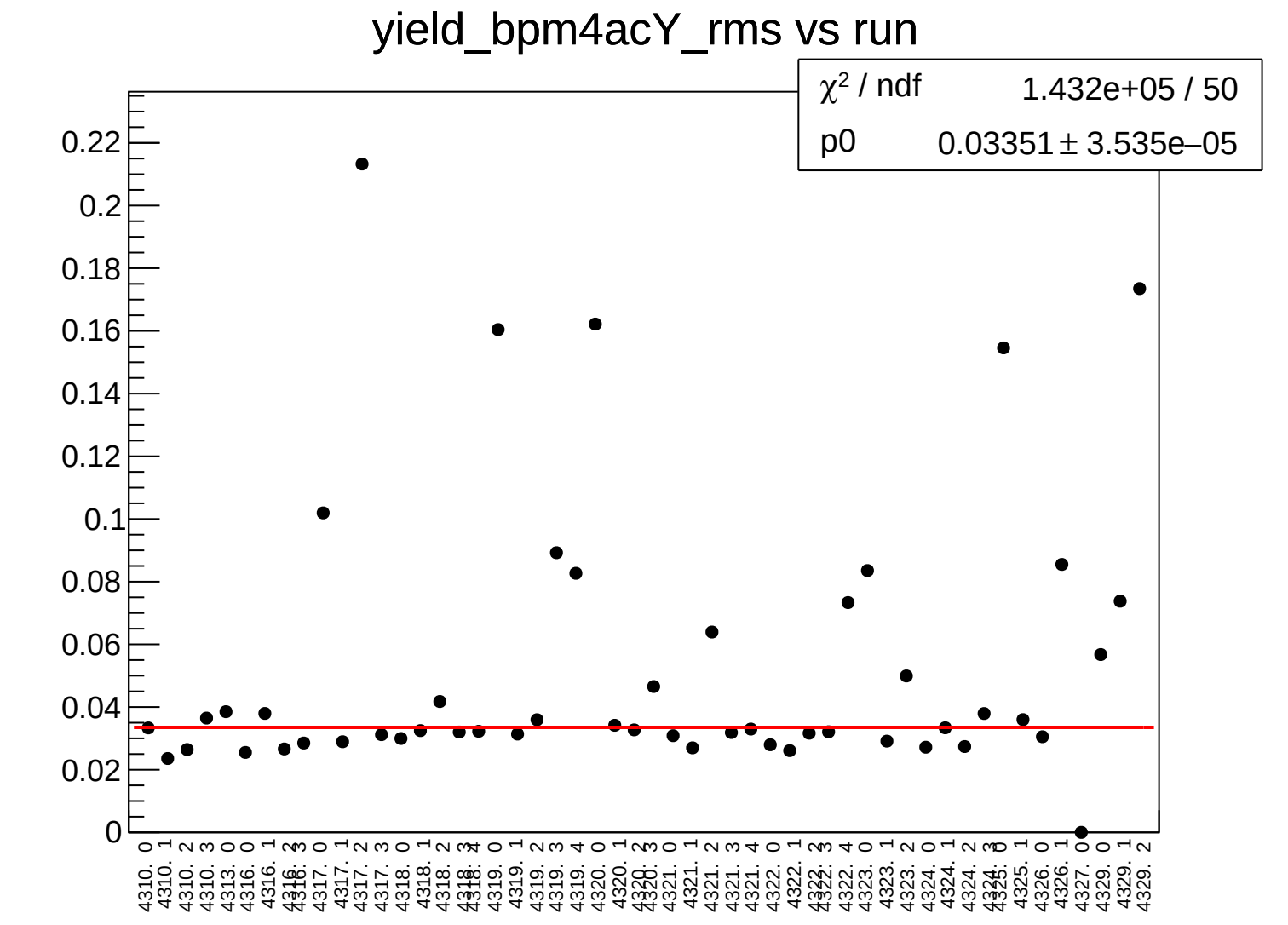

yield_bpm4acX_mean vs run
χ² / ndf 1.031e+04 / 50
p0 −0.42 ± 2.213e−05
0
−0.1
−0.2
−0.3
−0.4

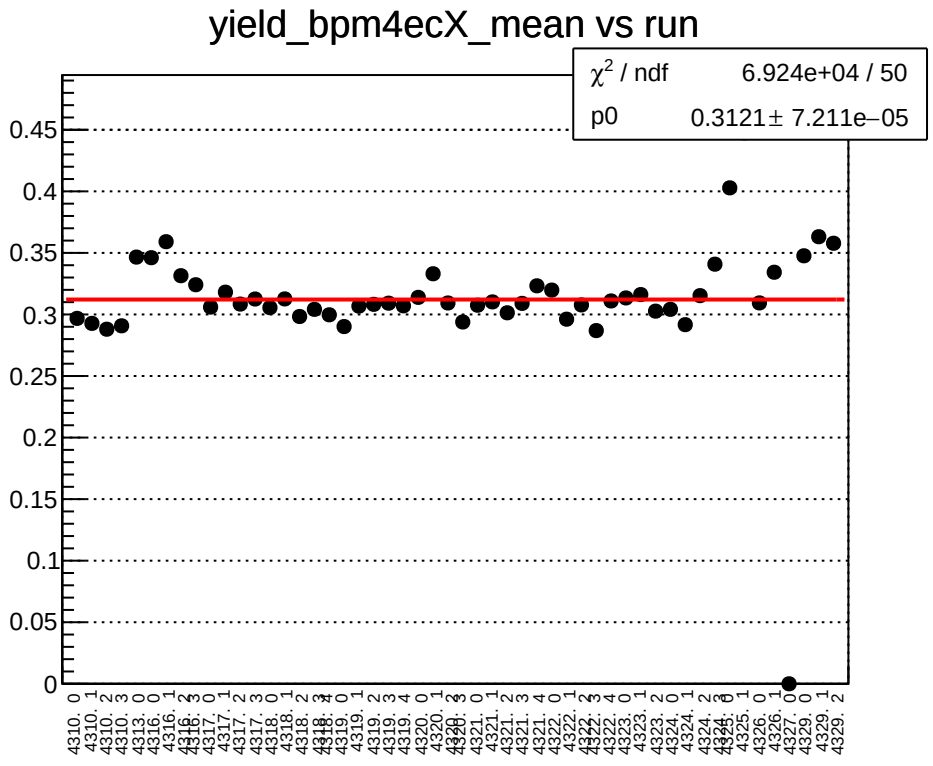

pull1D
Entries 52
Mean 0.4269
Std Dev 4.902
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

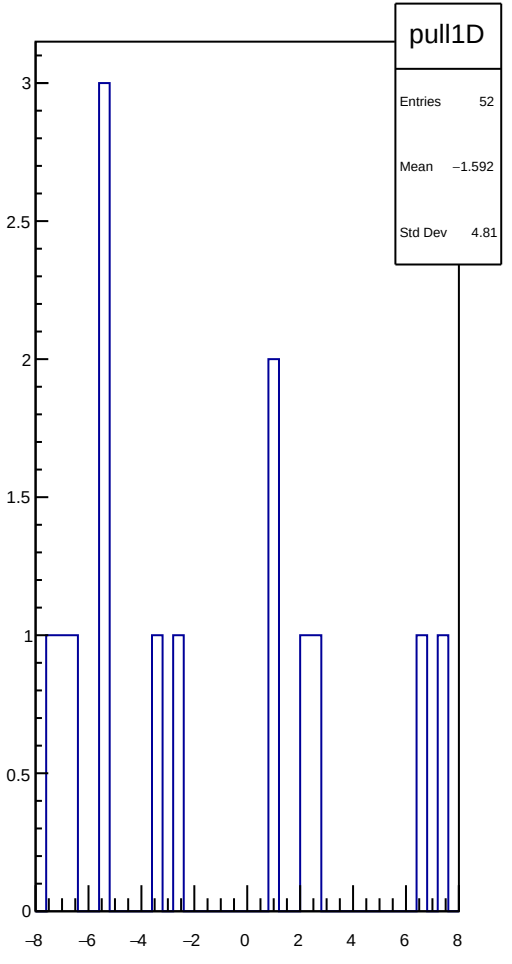

yield_bpm4acX_rms vs run
χ² / ndf 1.711e+04 / 50
p0 0.01584 ± 1.565e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

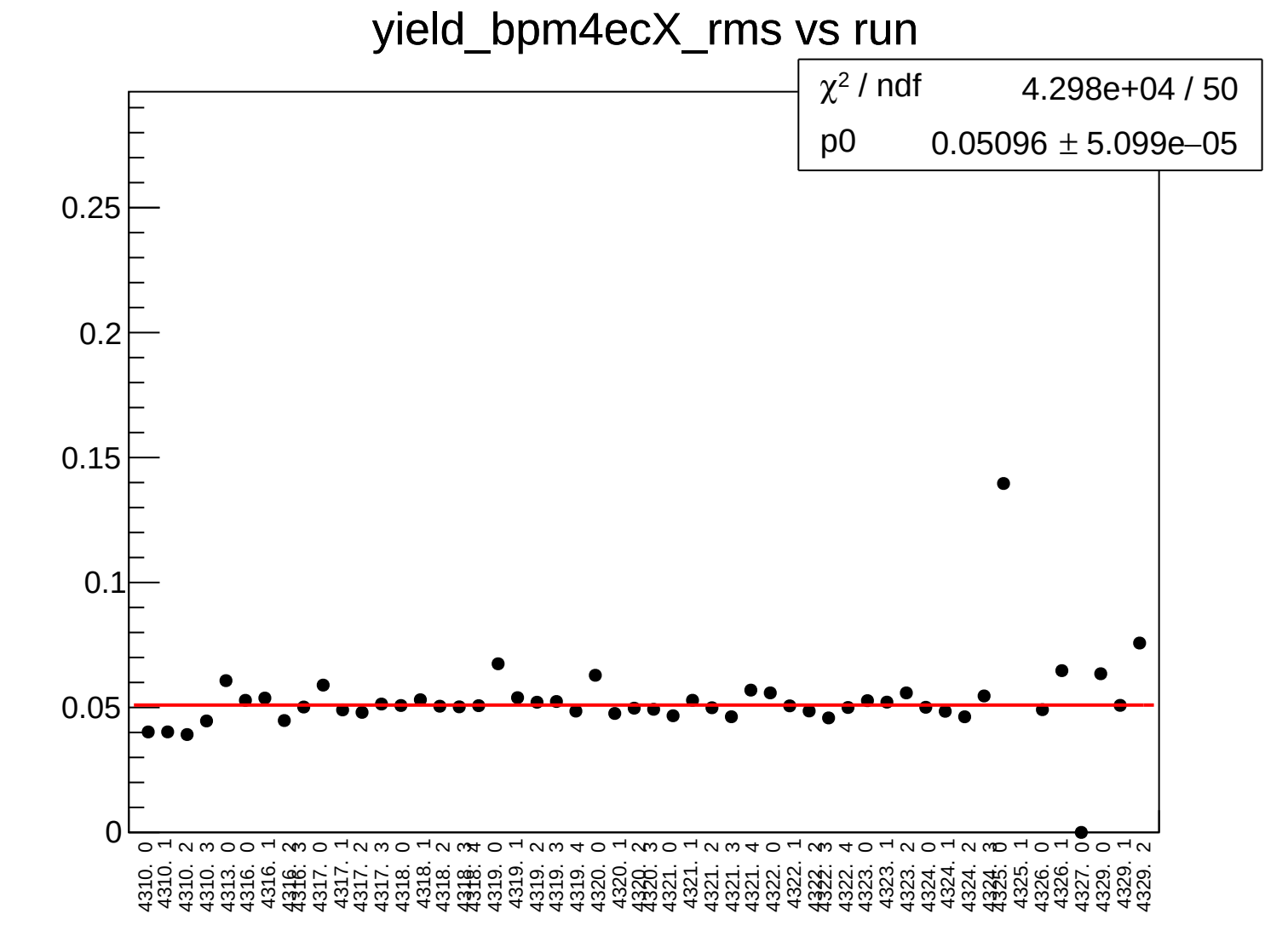

yield_bpm4acY_mean vs run
χ² / ndf 2.297e+04 / 50
p0 2.058 ± 5e−05

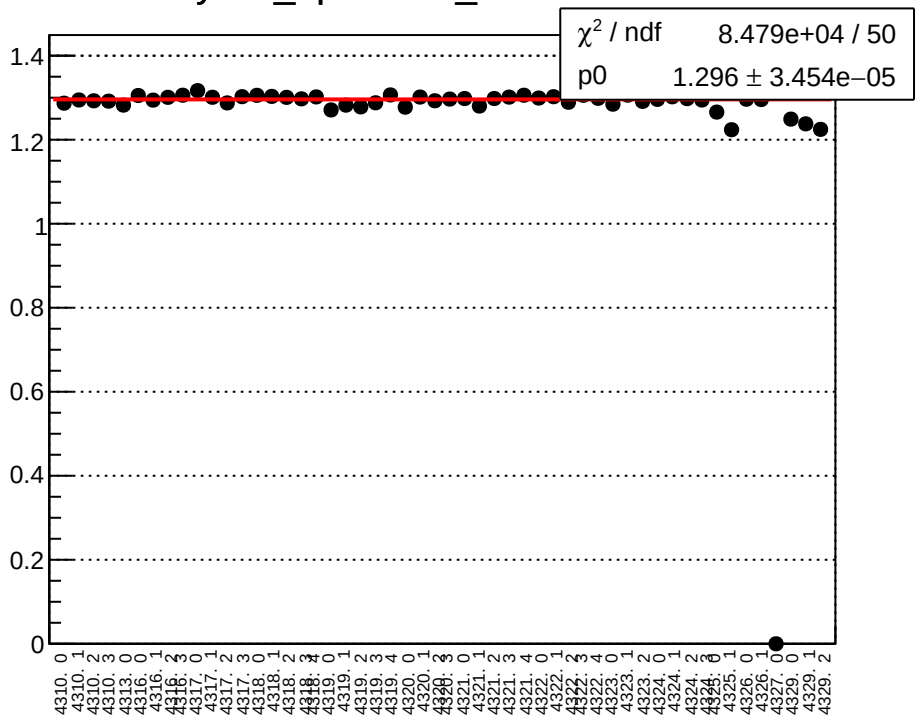

pull1D
Entries 52
Mean −0.9417
Std Dev 4.112

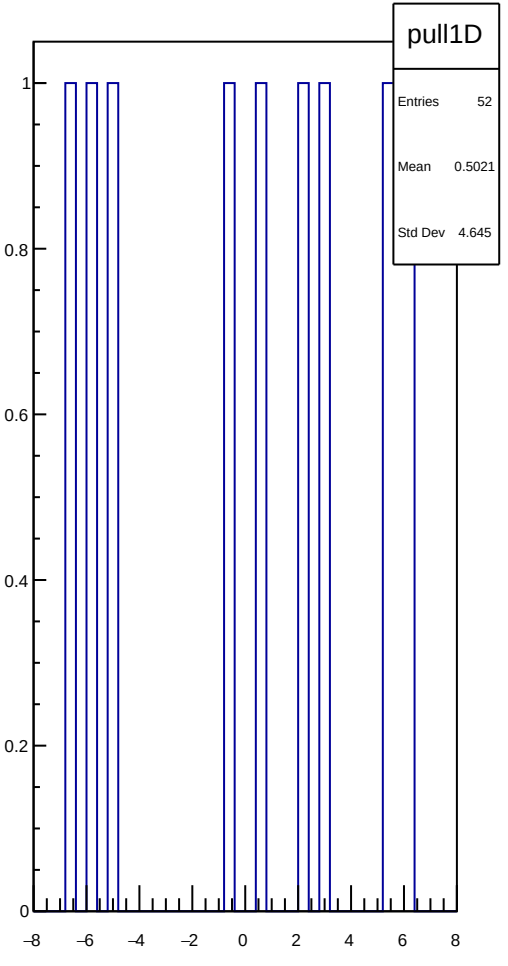

yield_bpm4acY_rms vs run
χ² / ndf 1.432e+05 / 50
p0 0.03351 ± 3.535e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

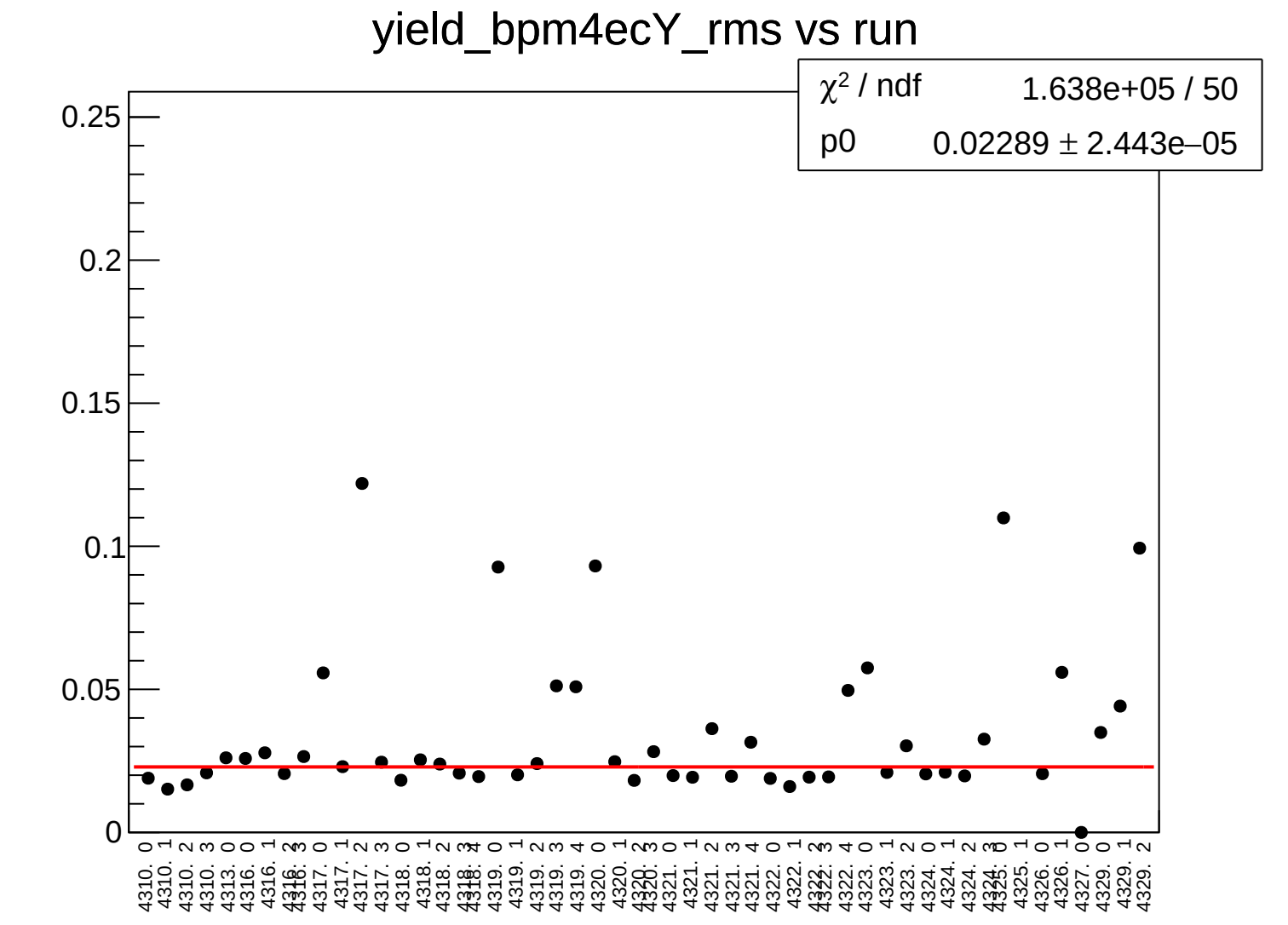

yield_bpm4ecX_mean vs run
χ² / ndf 6.924e+04 / 50
p0 0.3121 ± 7.211e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

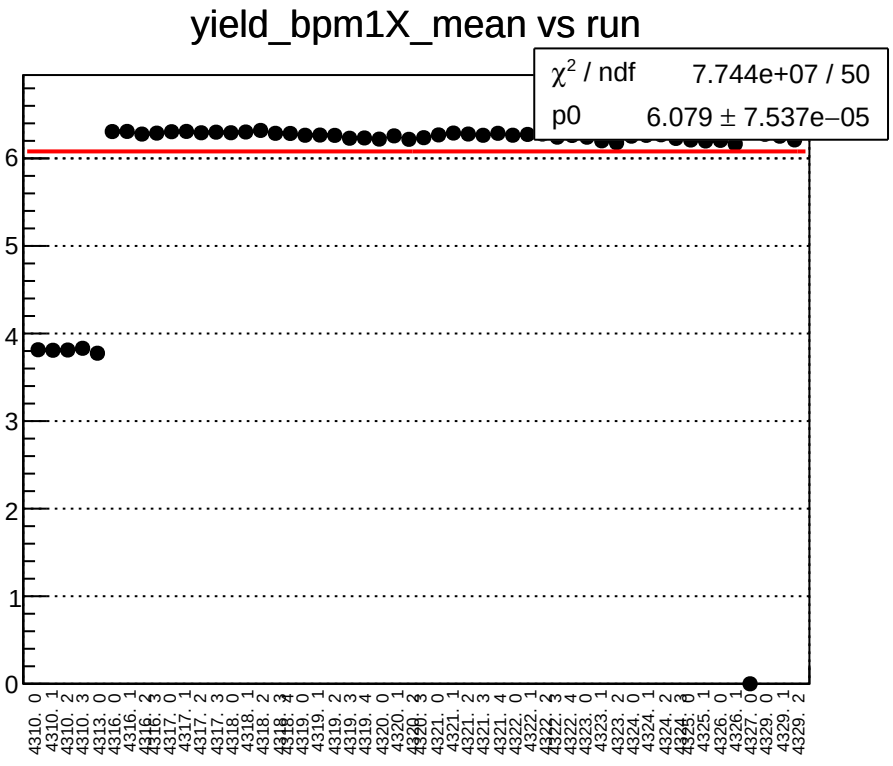

pull1D
Entries 52
Mean −1.592
Std Dev 4.81
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

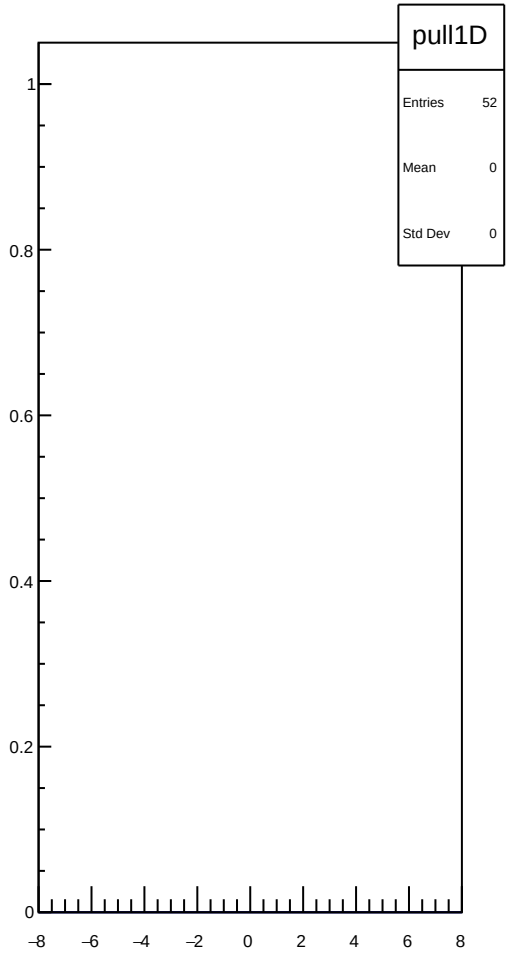

yield_bpm4ecX_rms vs run
χ² / ndf 4.298e+04 / 50
p0 0.05096 ± 5.099e–05
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

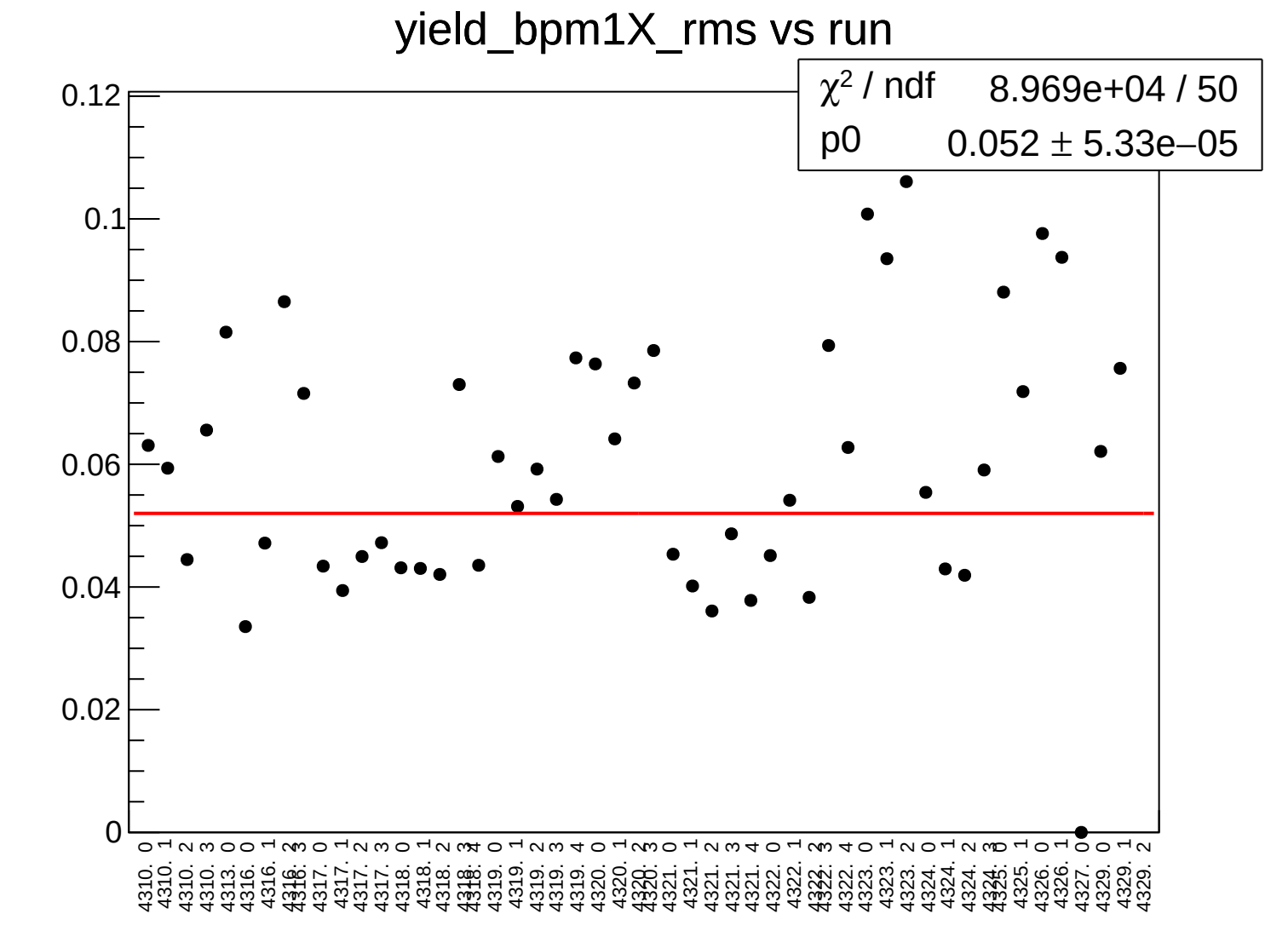

yield_bpm4ecY_mean vs run
χ² / ndf 8.479e+04 / 50
p0 1.296 ± 3.454e−05
1.4
1.2
1
0.8
0.6
0.4
0.2
0

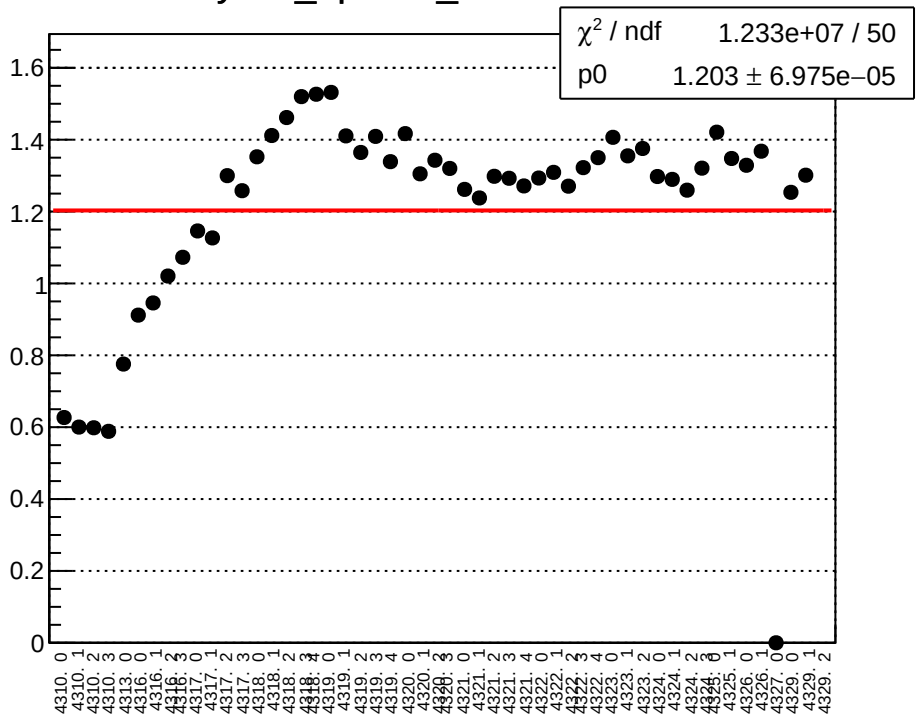

pull1D
Entries 52
Mean 0.5021
Std Dev 4.645
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

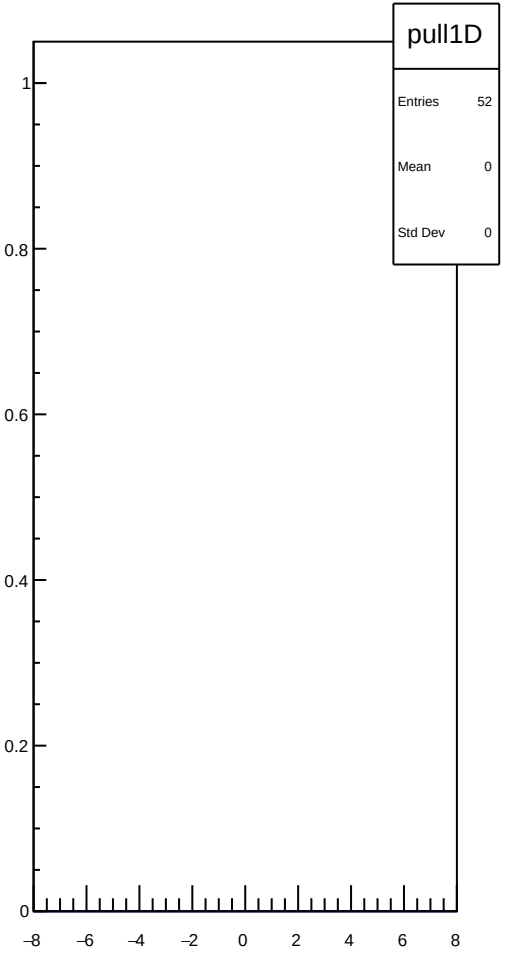

yield_bpm4ecY_rms vs run
χ² / ndf 1.638e+05 / 50
p0 0.02289 ± 2.443e−05
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

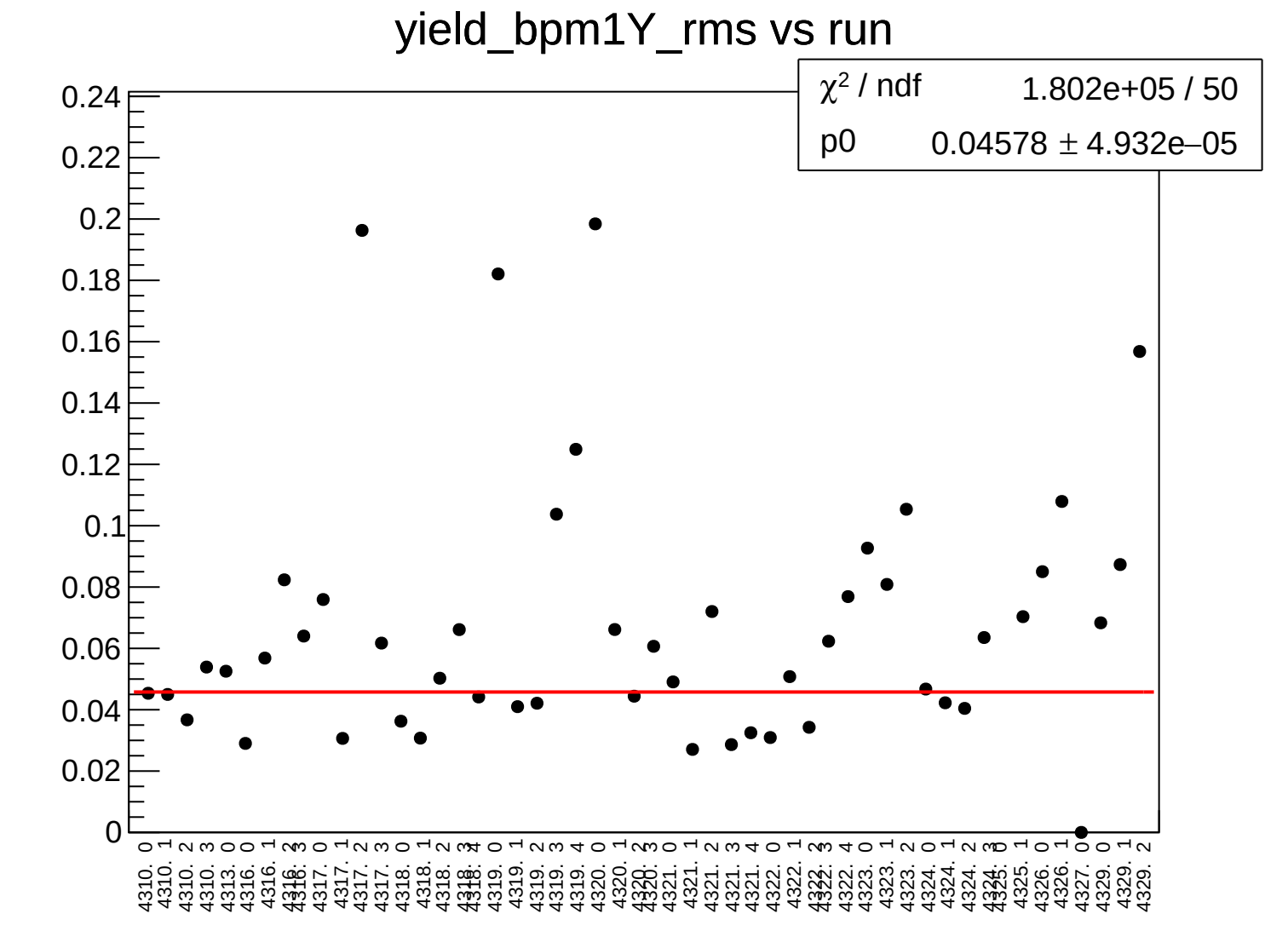

yield_bpm1X_mean vs run
χ² / ndf 7.744e+07 / 50
p0 6.079 ± 7.537e−05
0
1
2
3
4
5
6

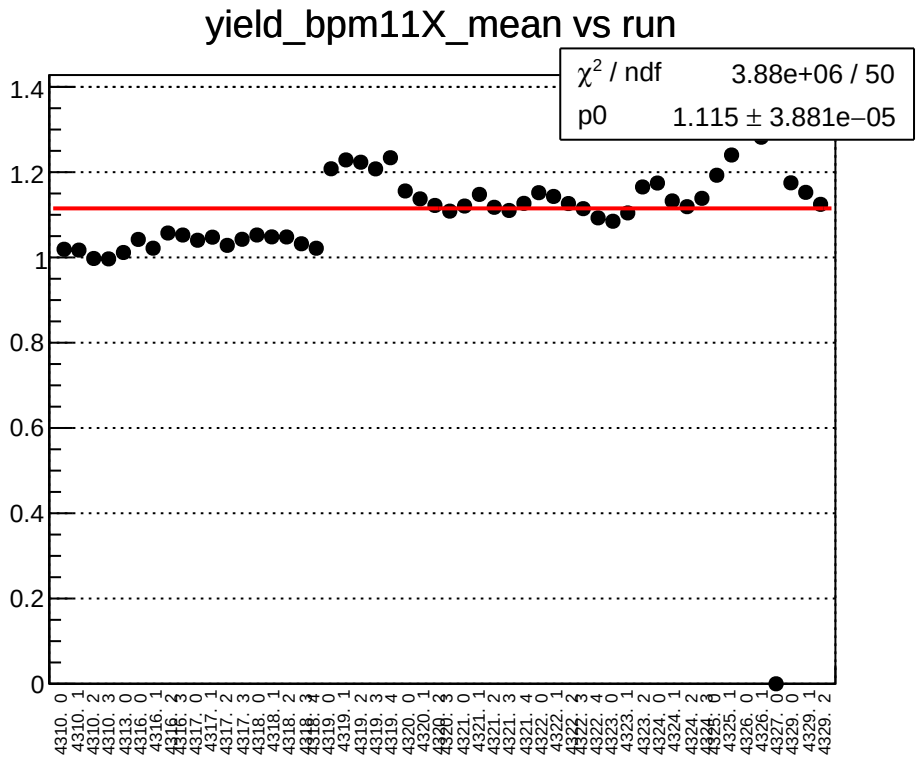

pull1D
Entries 52
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

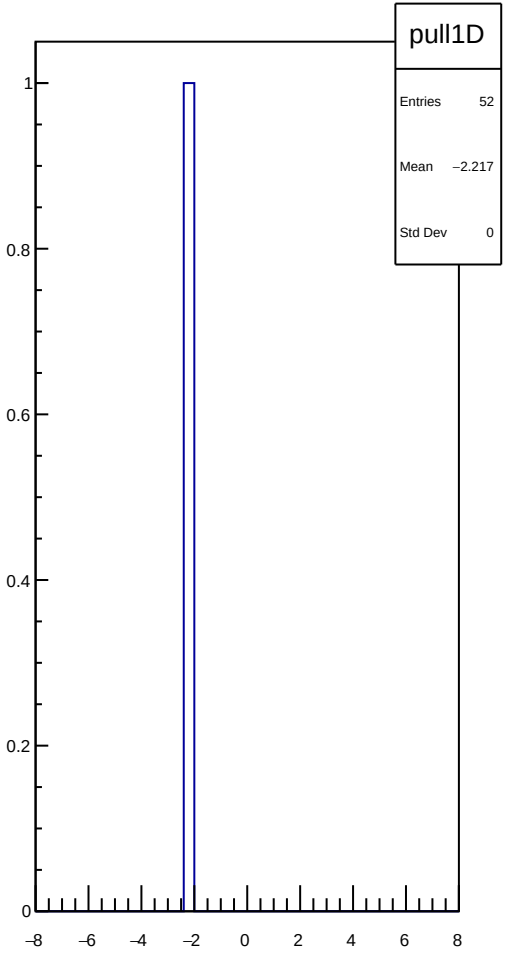

yield_bpm1X_rms vs run
χ² / ndf 8.969e+04 / 50
p0 0.052 ± 5.33e−05
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

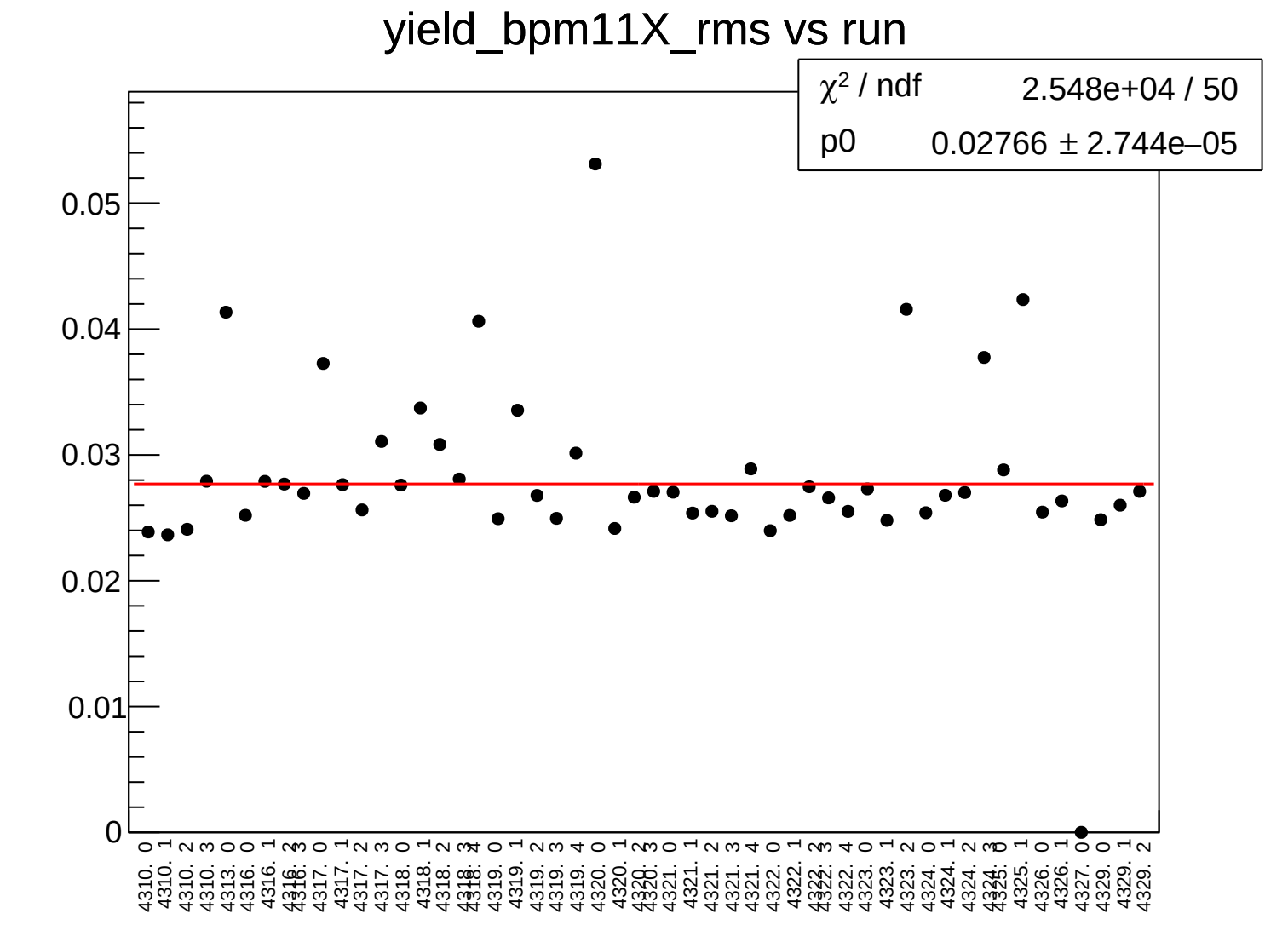

yield_bpm1Y_mean vs run
χ² / ndf 1.233e+07 / 50
p0 1.203 ± 6.975e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

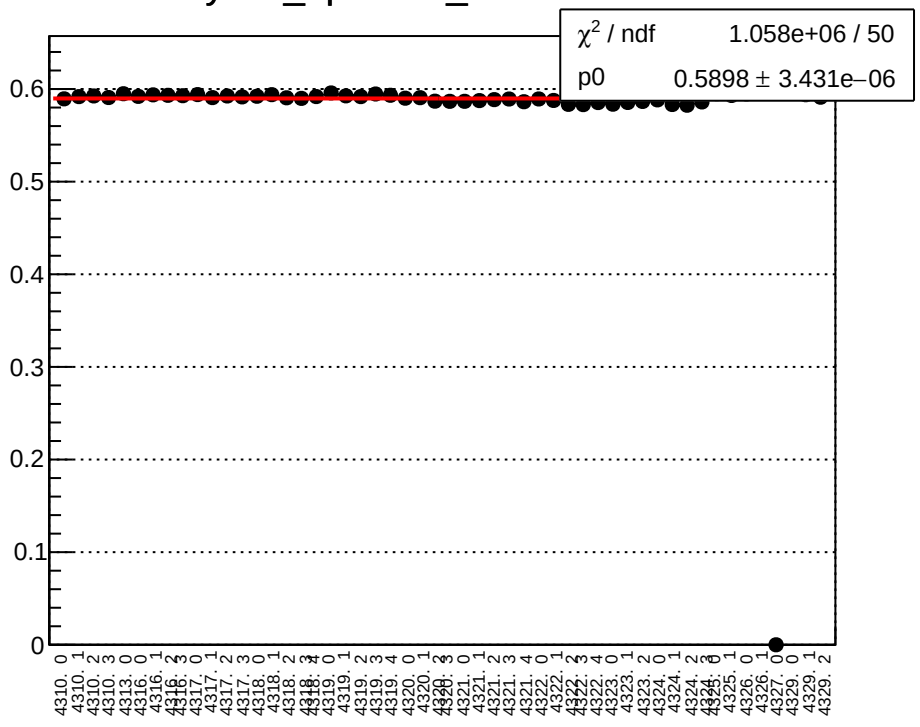

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

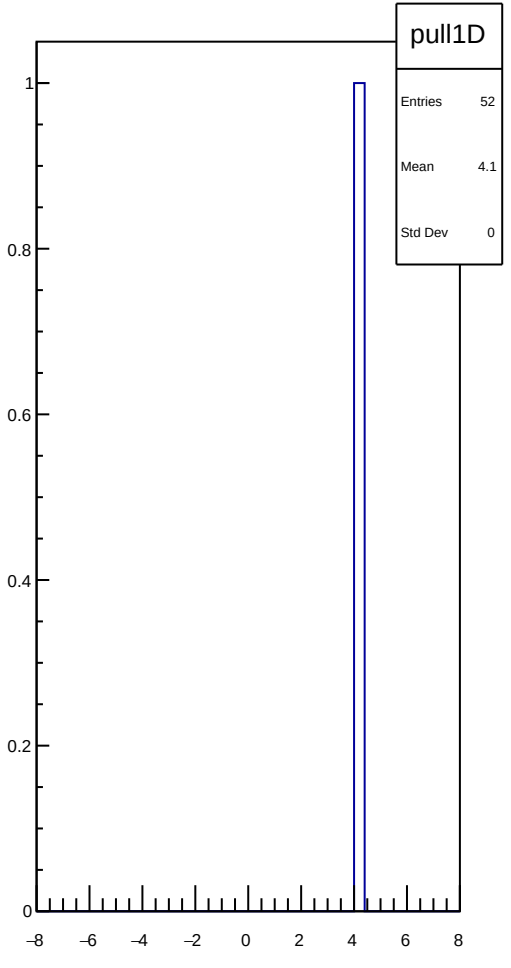

yield_bpm1Y_rms vs run
χ² / ndf 1.802e+05 / 50
p0 0.04578 ± 4.932e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

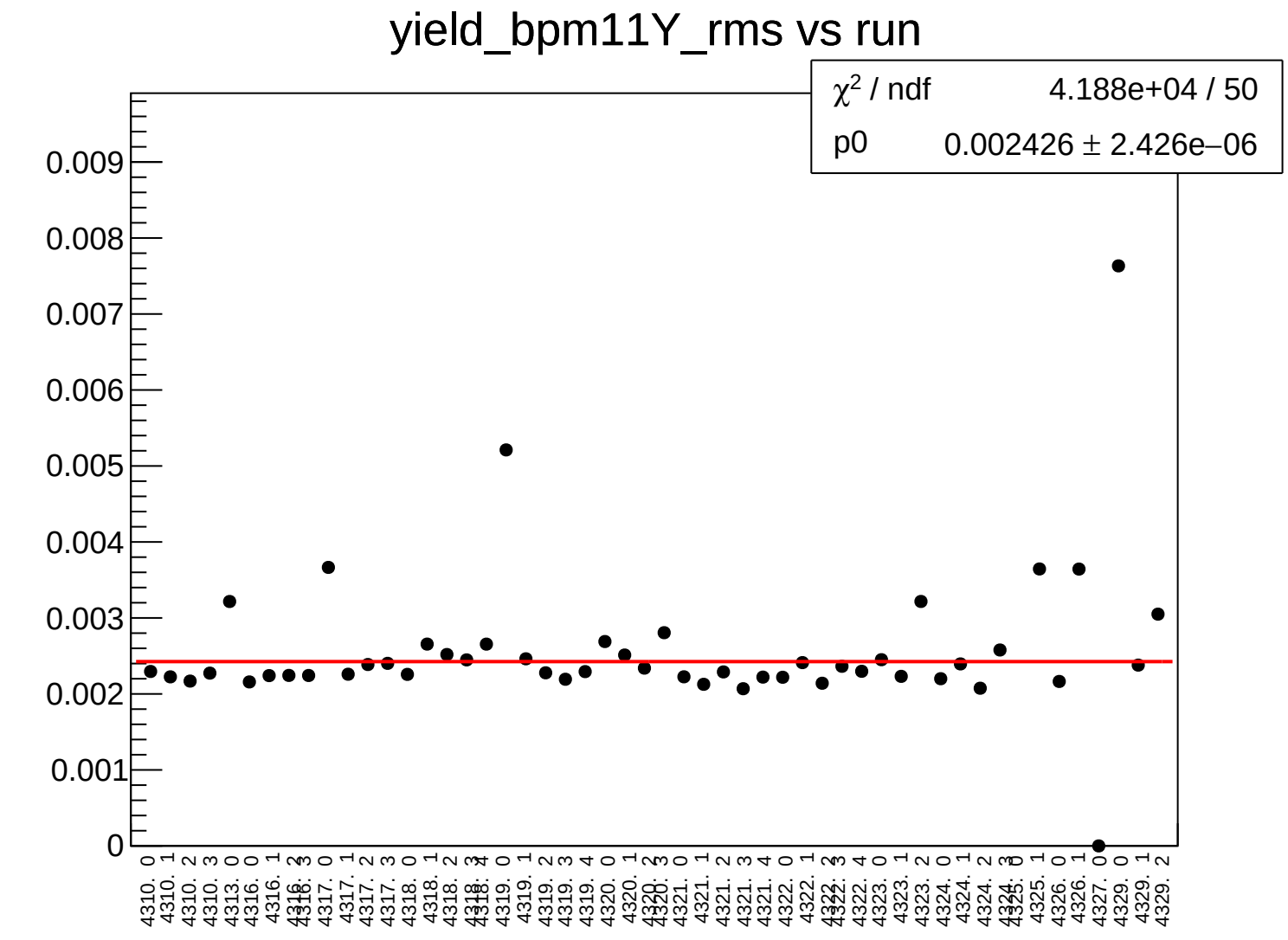

yield_bpm11X_mean vs run
χ² / ndf 3.88e+06 / 50
p0 1.115 ± 3.881e−05
1.4
1.2
1
0.8
0.6
0.4
0.2
0

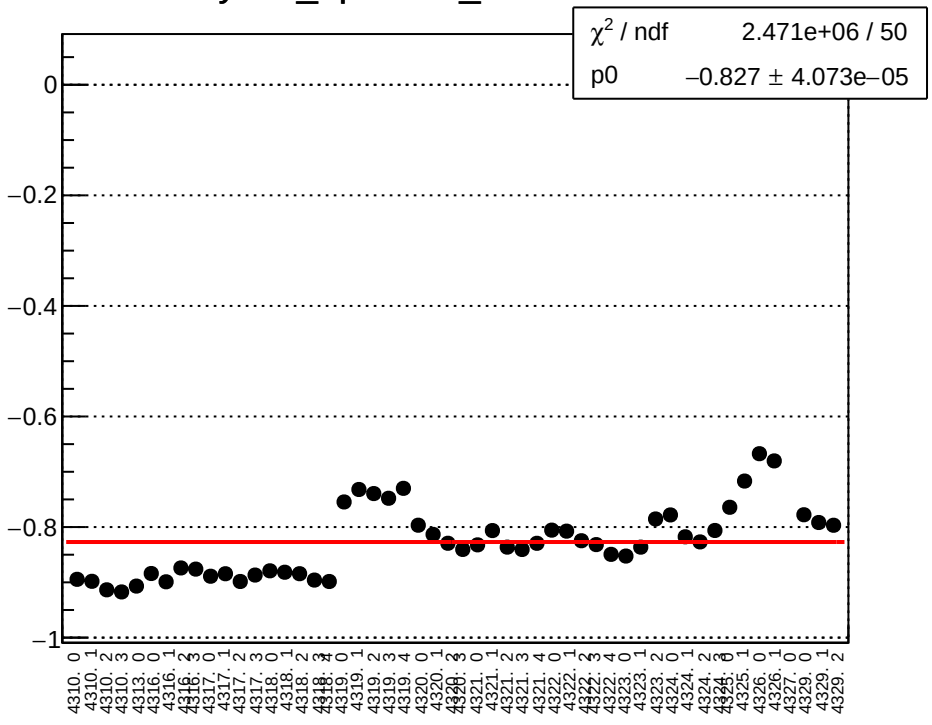

pull1D
Entries 52
Mean −2.217
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

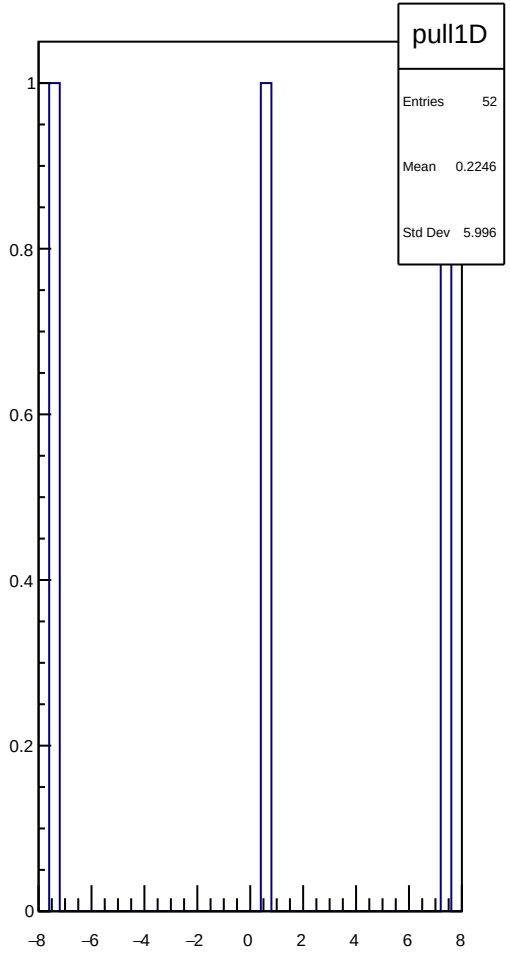

yield_bpm11X_rms vs run
χ² / ndf 2.548e+04 / 50
p0 0.02766 ± 2.744e–05
0.05
0.04
0.03
0.02
0.01
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

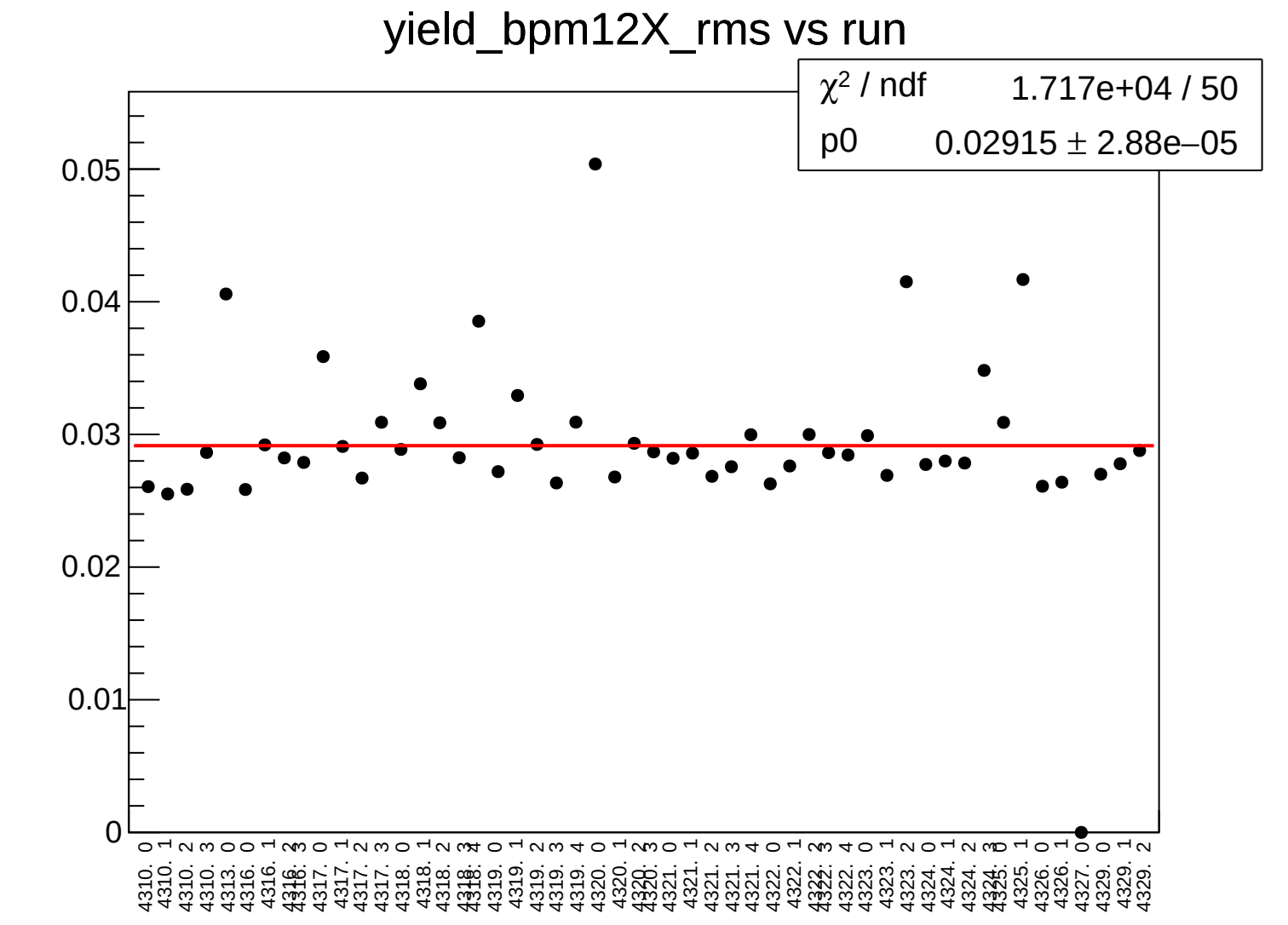

yield_bpm11Y_mean vs run
χ² / ndf 1.058e+06 / 50
p0 0.5898 ± 3.431e−06
0.6
0.5
0.4
0.3
0.2
0.1
0

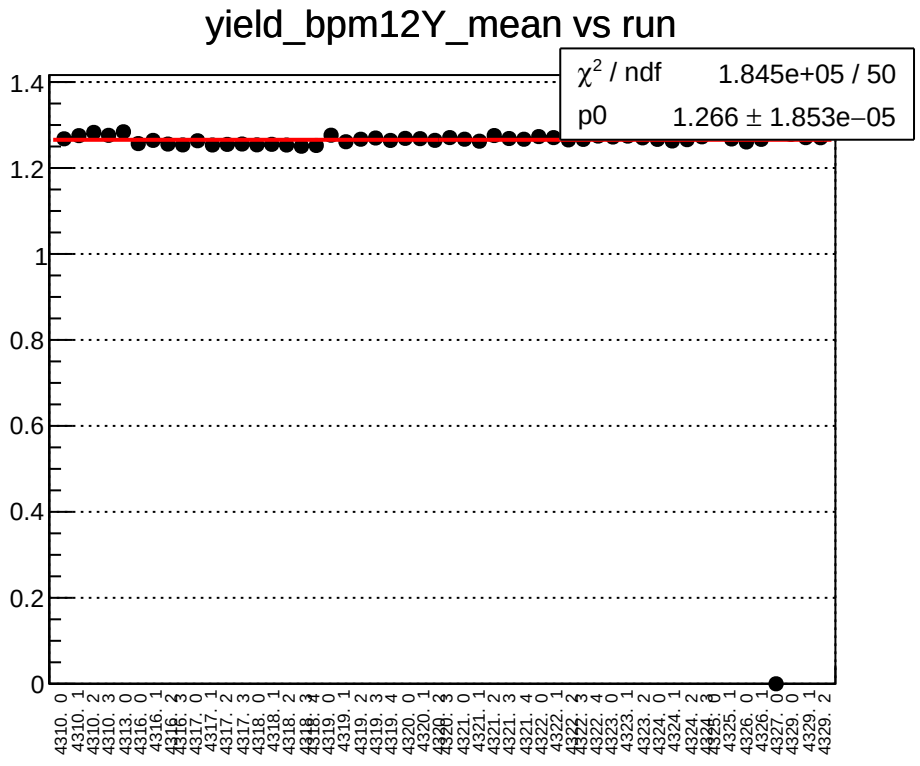

pull1D
Entries 52
Mean 4.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

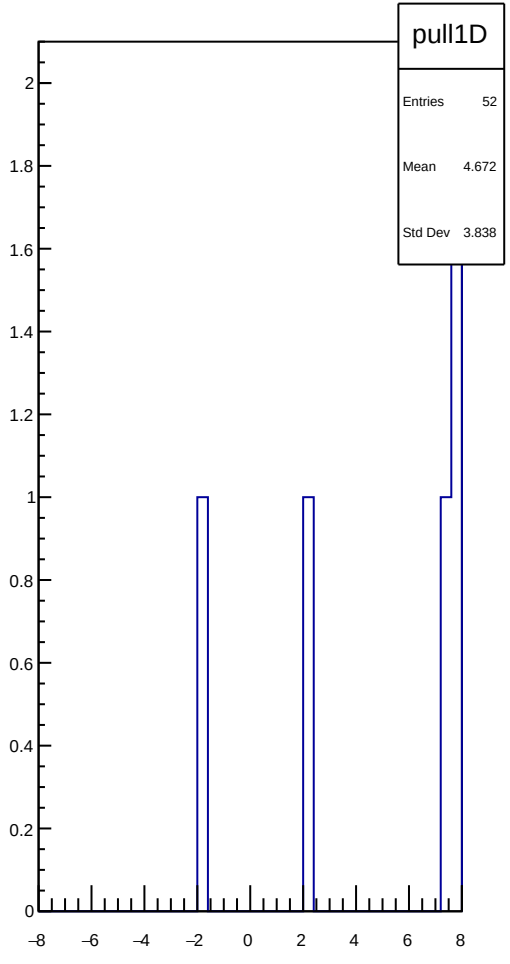

yield_bpm11Y_rms vs run
χ² / ndf 4.188e+04 / 50
p0 0.002426 ± 2.426e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

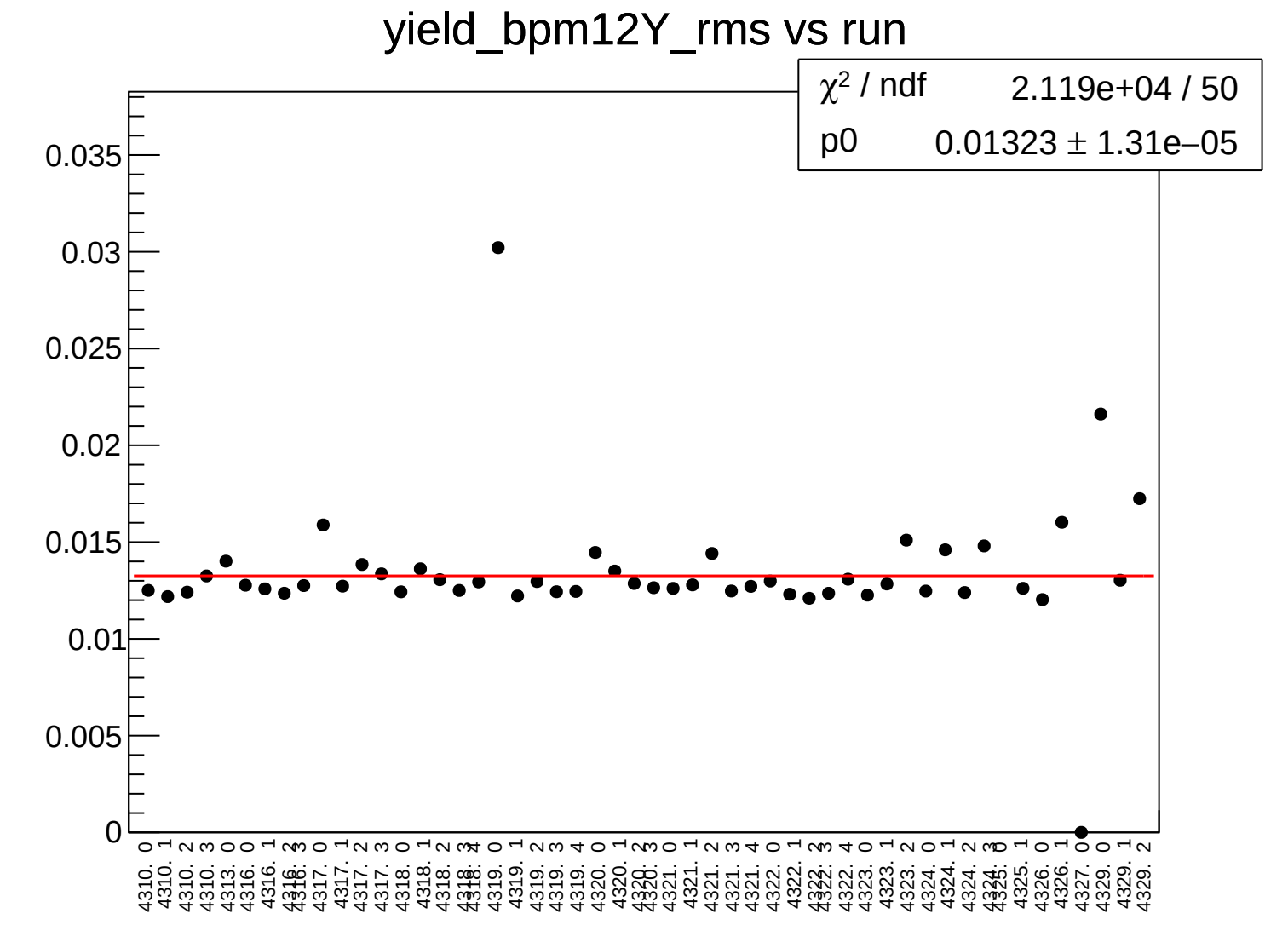

yield_bpm12X_mean vs run
χ² / ndf 2.471e+06 / 50
p0 −0.827 ± 4.073e−05
0
−0.2
−0.4
−0.6
−0.8
−1

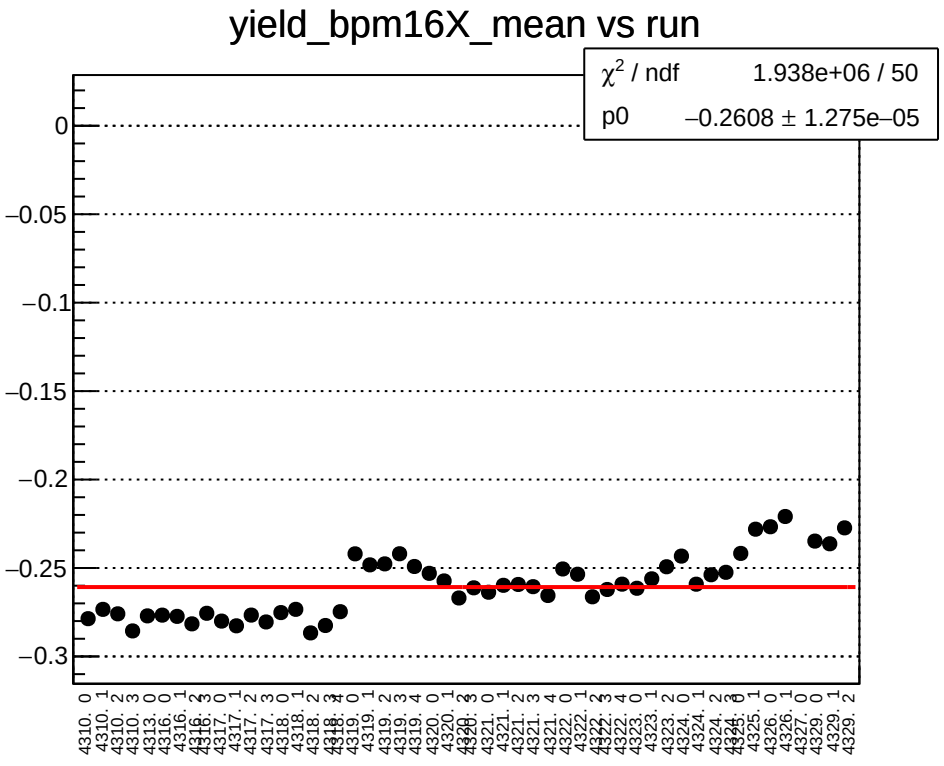

pull1D
Entries 52
Mean 0.2246
Std Dev 5.996
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

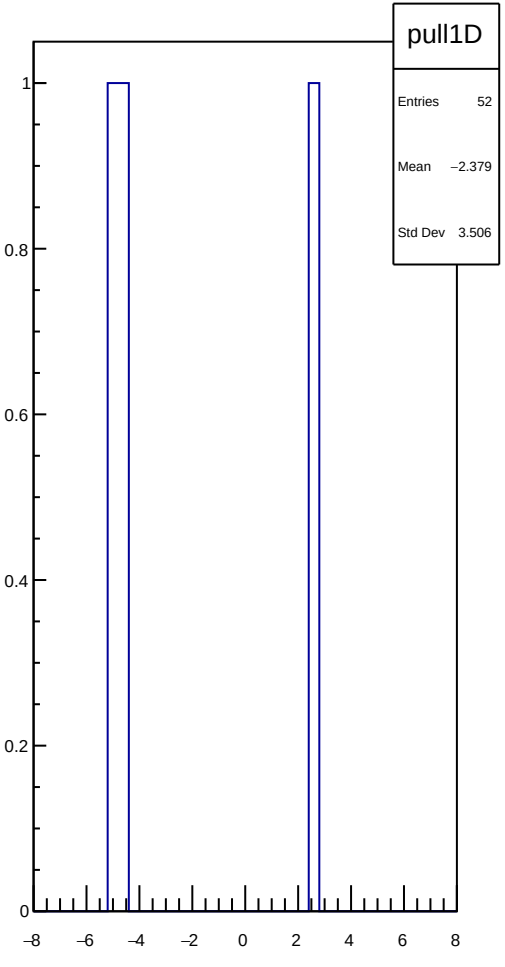

yield_bpm12X_rms vs run
χ² / ndf 1.717e+04 / 50
p0 0.02915 ± 2.88e−05
0.05
0.04
0.03
0.02
0.01
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

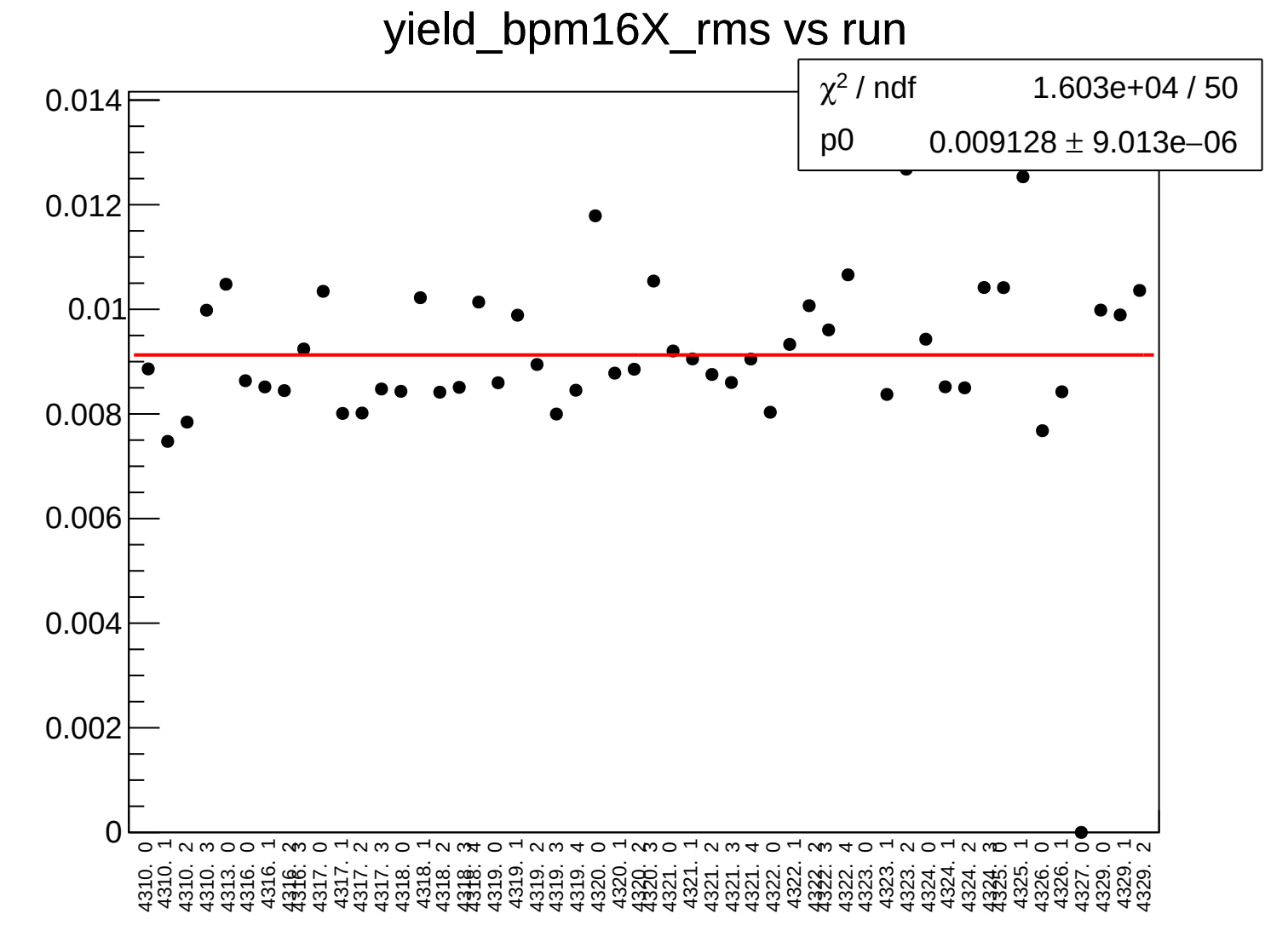

yield_bpm12Y_mean vs run
χ² / ndf 1.845e+05 / 50
p0 1.266 ± 1.853e−05
1.4
1.2
1
0.8
0.6
0.4
0.2
0

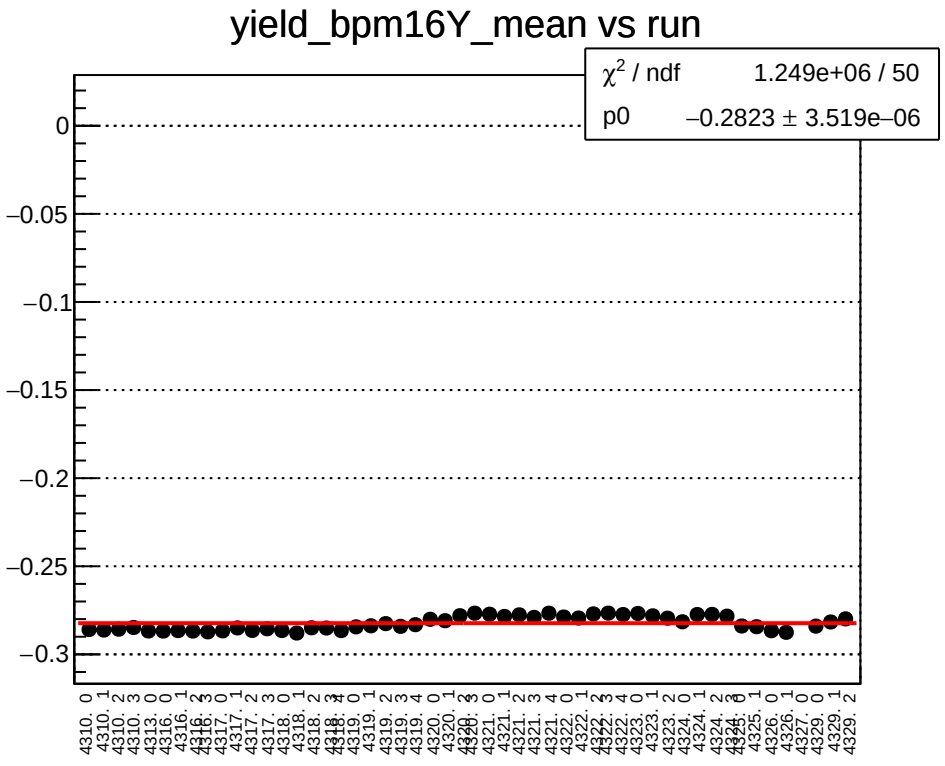

pull1D
Entries 52
Mean 4.672
Std Dev 3.838
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

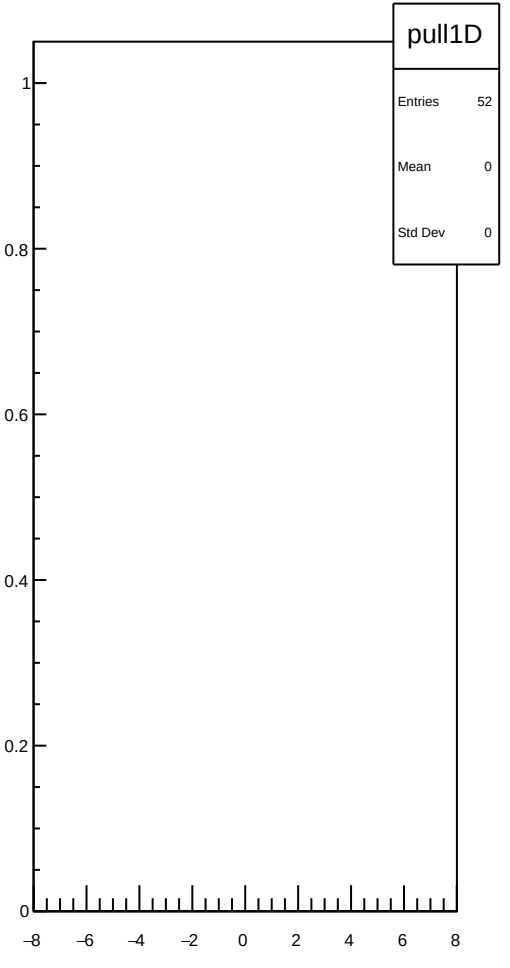

yield_bpm12Y_rms vs run
χ² / ndf 2.119e+04 / 50
p0 0.01323 ± 1.31e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

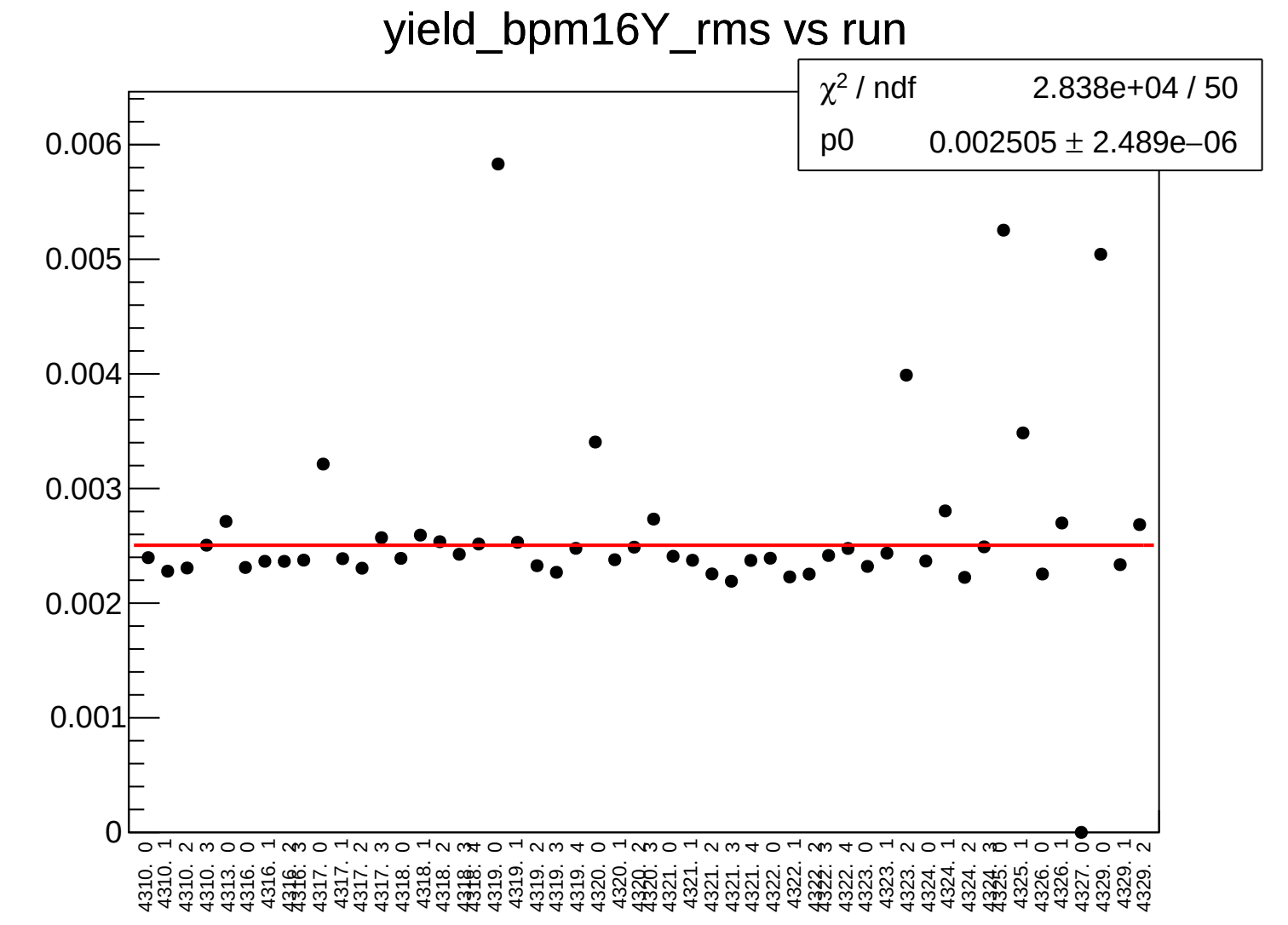

yield_bpm16X_mean vs run
χ² / ndf 1.938e+06 / 50
p0 −0.2608 ± 1.275e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3

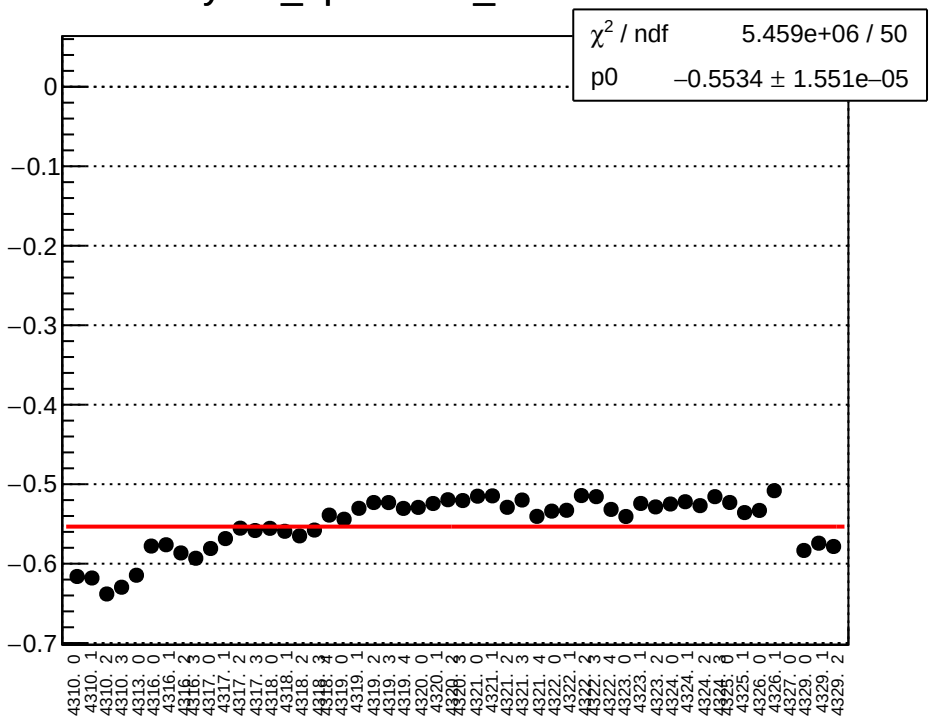

pull1D
Entries 52
Mean −2.379
Std Dev 3.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

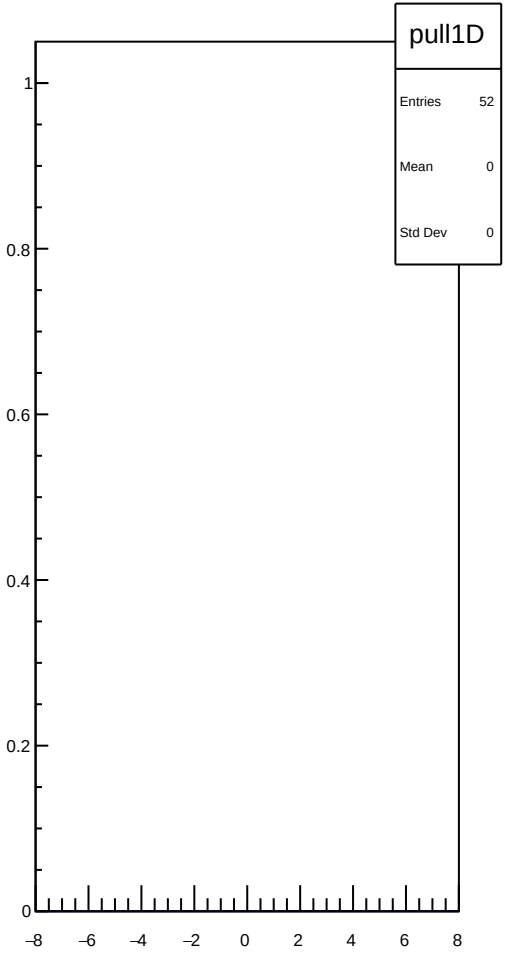

yield_bpm16X_rms vs run
χ² / ndf 1.603e+04 / 50
p0 0.009128 ± 9.013e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

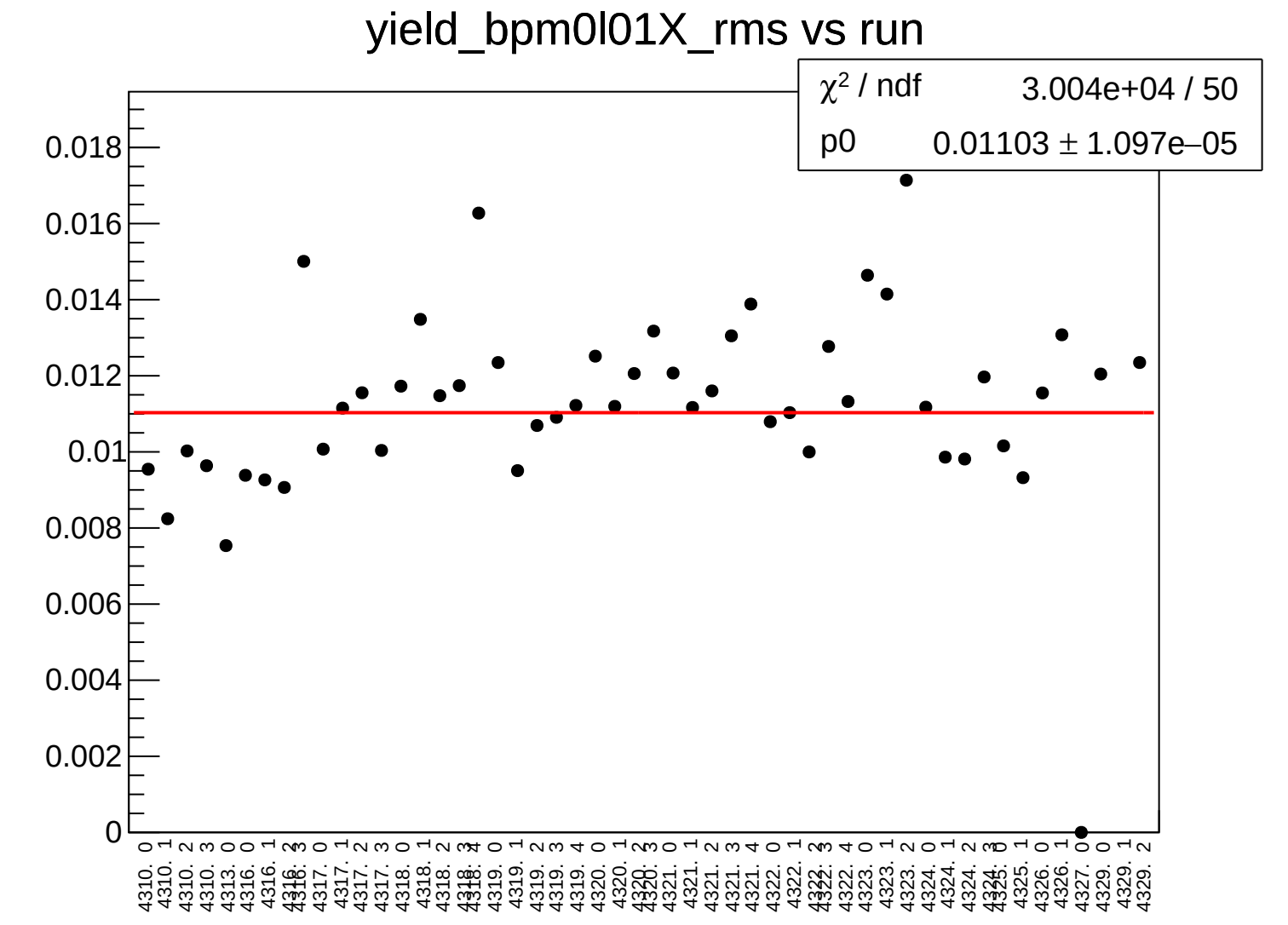

yield_bpm16Y_mean vs run
χ² / ndf 1.249e+06 / 50
p0 −0.2823 ± 3.519e−06
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3

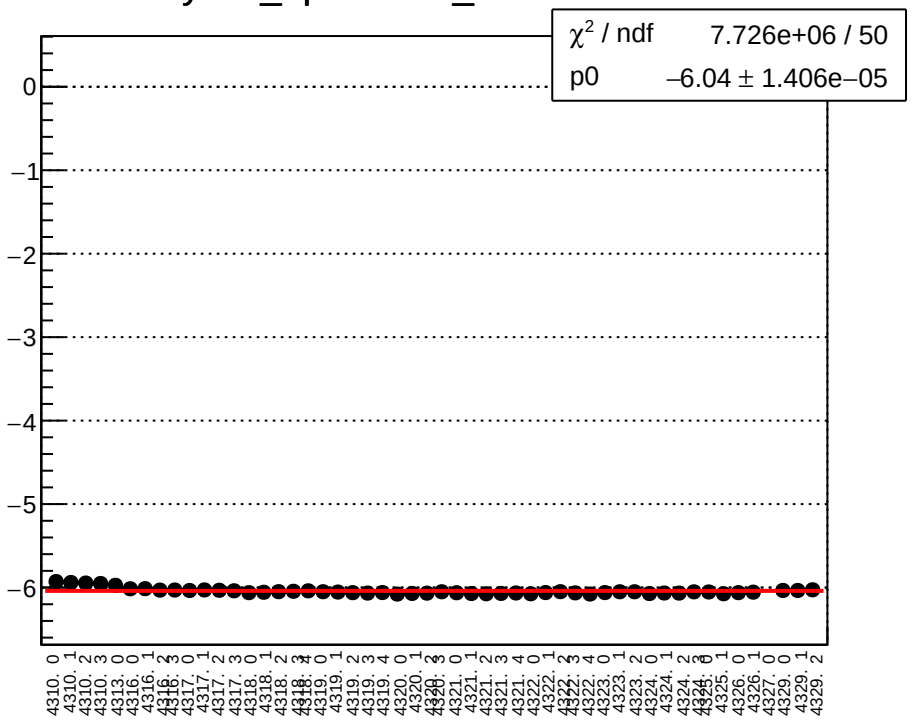

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

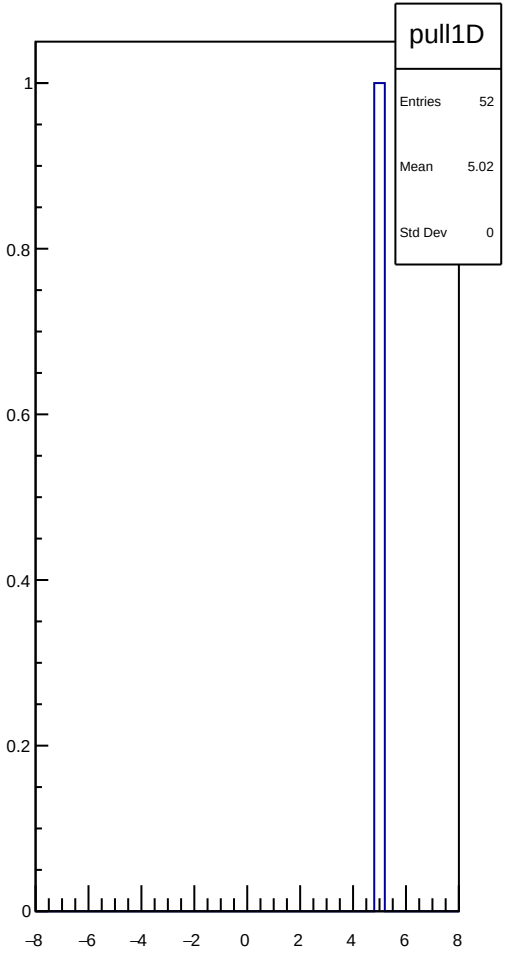

yield_bpm16Y_rms vs run
χ² / ndf 2.838e+04 / 50
p0 0.002505 ± 2.489e−06
0.006
0.005
0.004
0.003
0.002
0.001
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

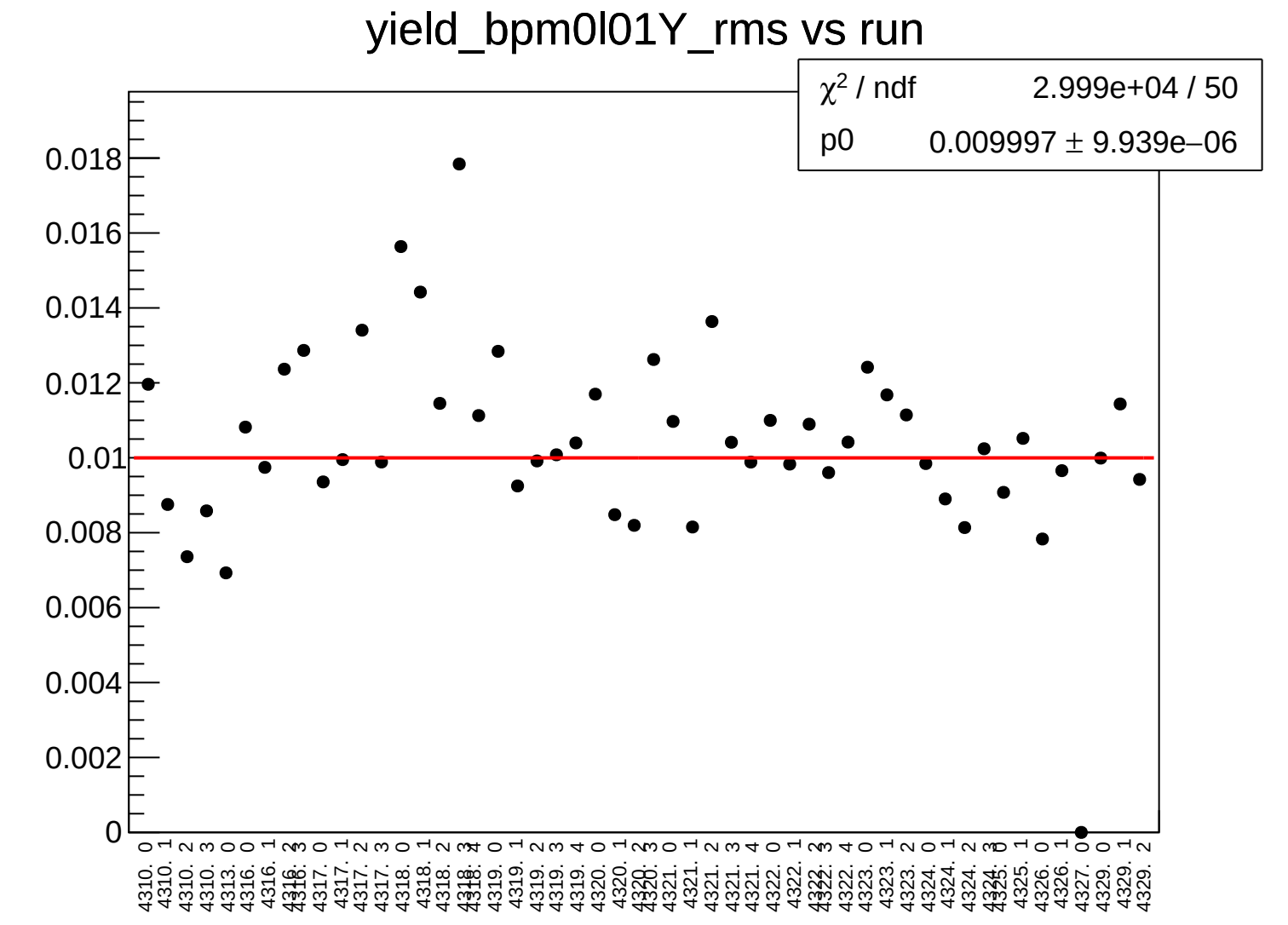

yield_bpm0l01X_mean vs run
χ² / ndf 5.459e+06 / 50
p0 −0.5534 ± 1.551e−05
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7

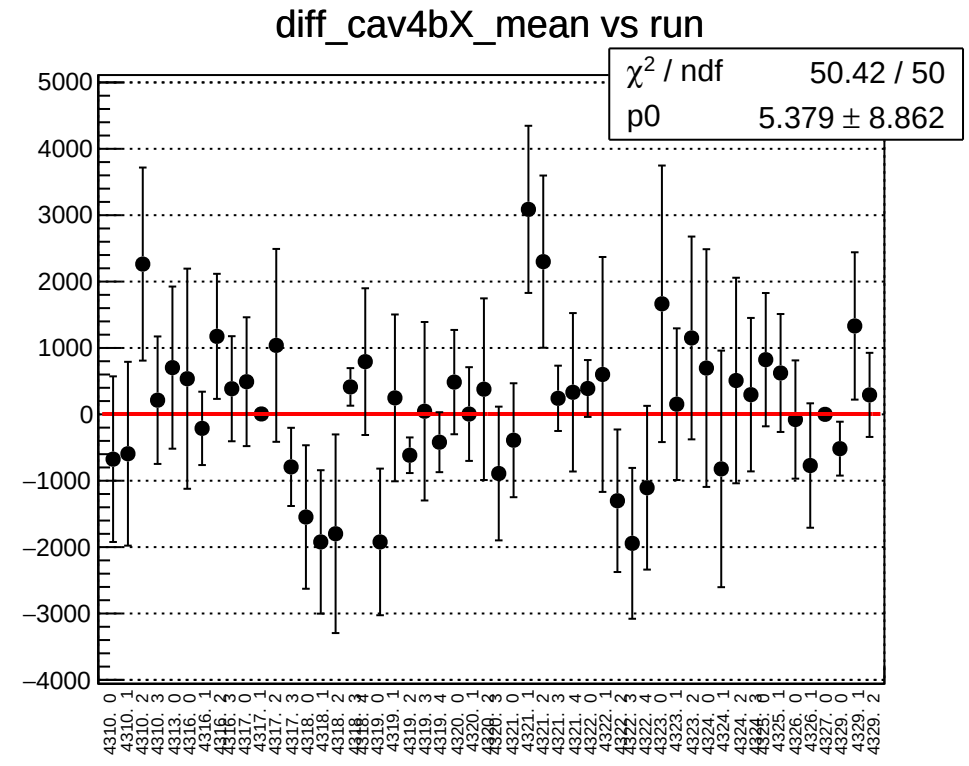

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

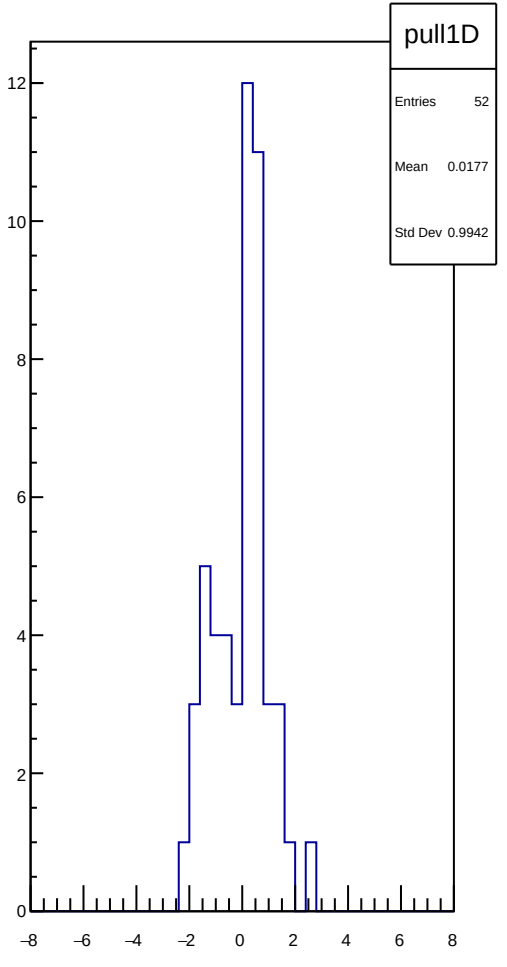

yield_bpm0l01X_rms vs run
χ² / ndf 3.004e+04 / 50
p0 0.01103 ± 1.097e–05
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

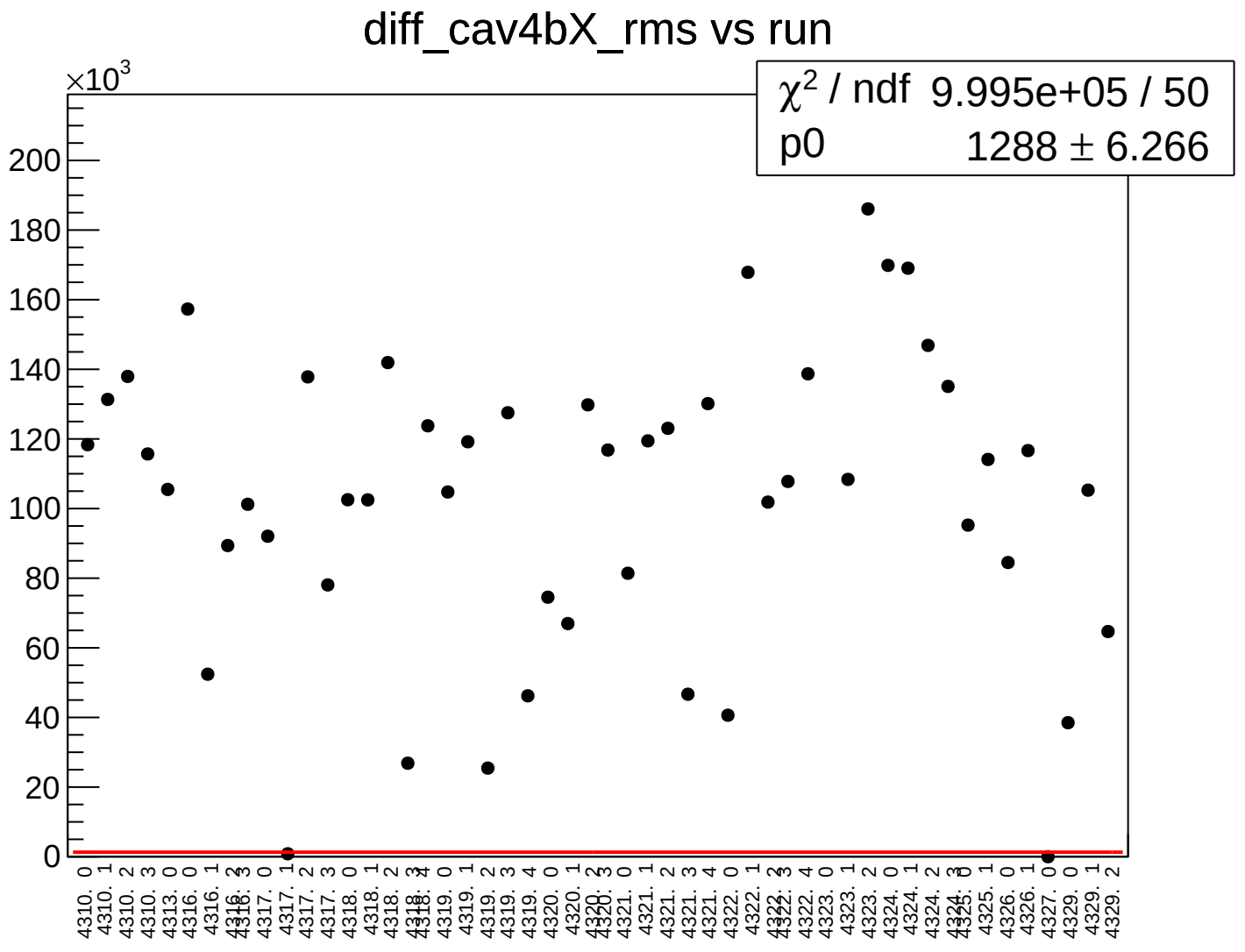

yield_bpm0l01Y_mean vs run
χ² / ndf 7.726e+06 / 50
p0 −6.04 ± 1.406e−05
0
−1
−2
−3
−4
−5
−6
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

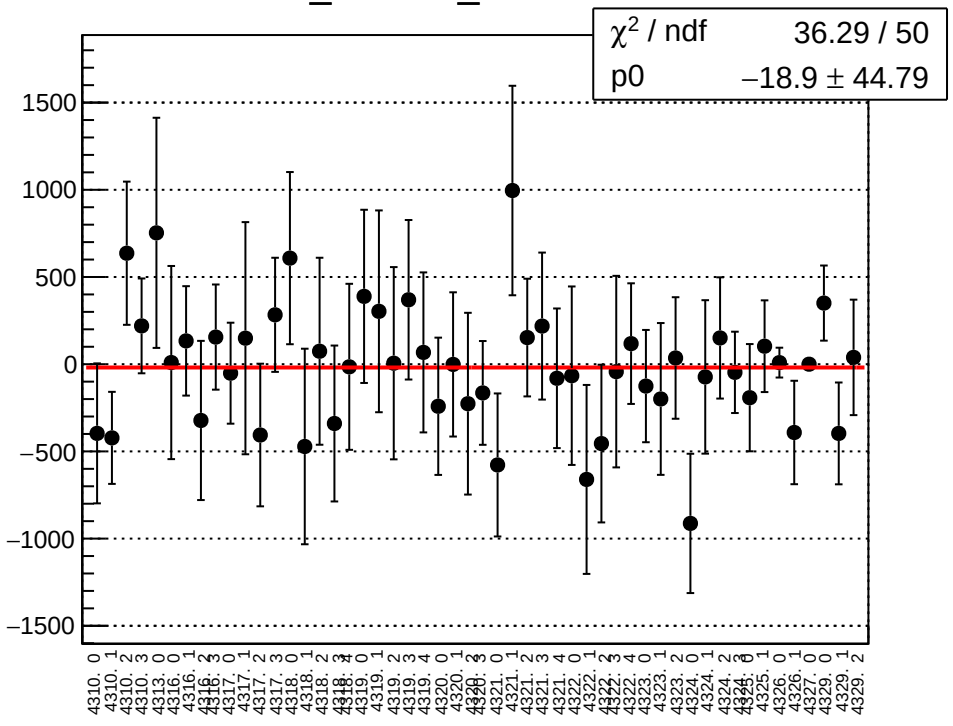

pull1D
Entries 52
Mean 5.02
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

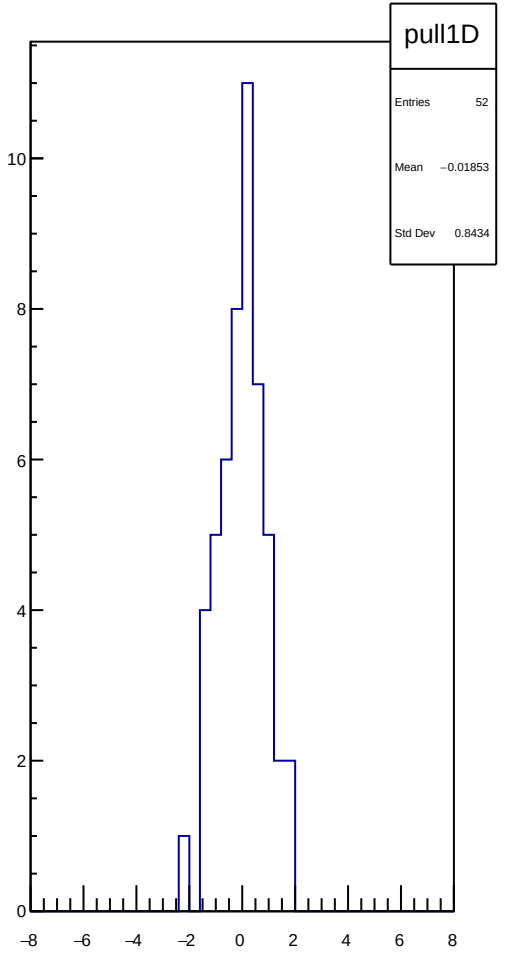

yield_bpm0l01Y_rms vs run
χ² / ndf 2.999e+04 / 50
p0 0.009997 ± 9.939e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

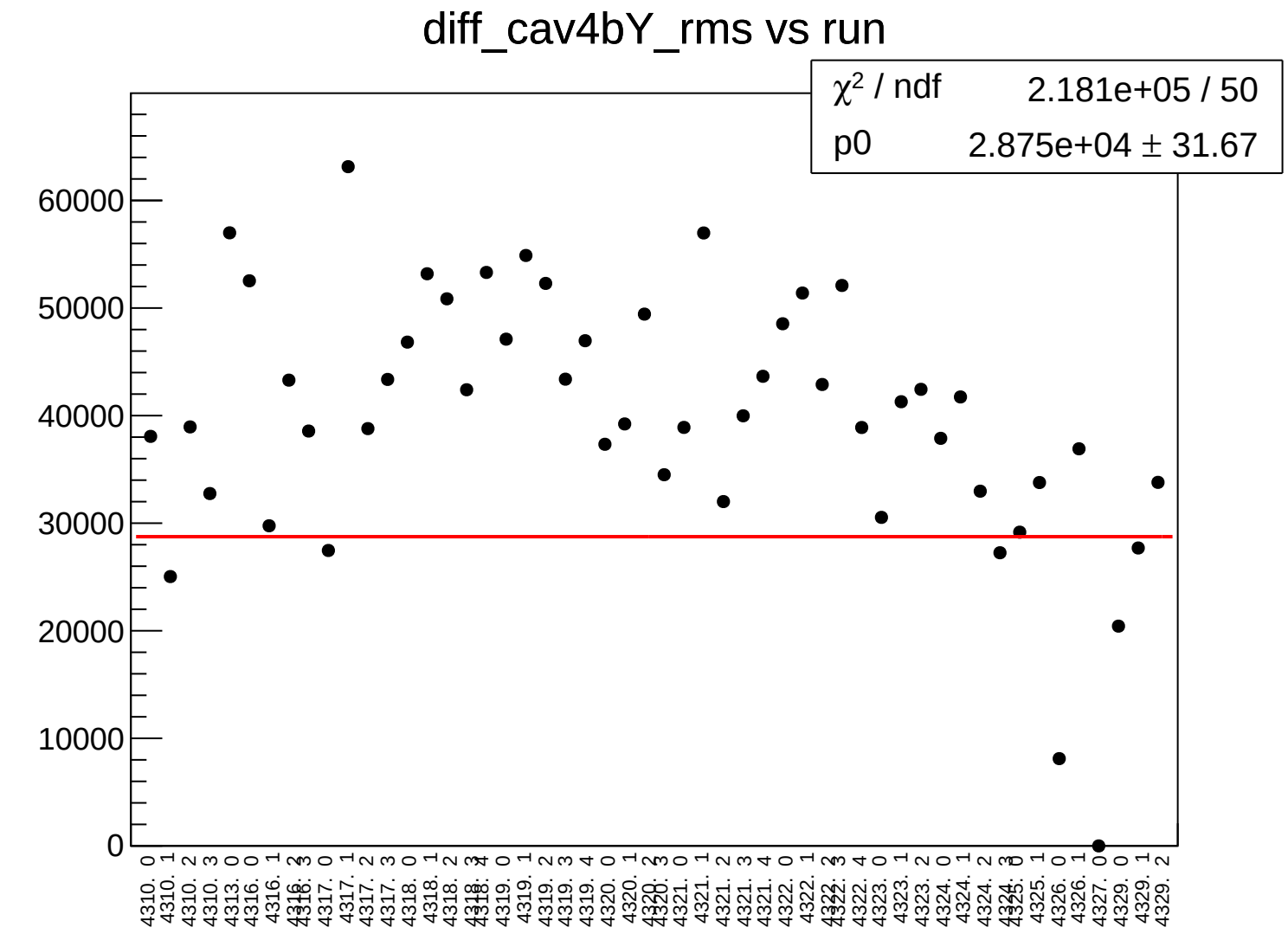

diff_cav4bX_mean vs run
χ^2 / ndf 50.42 / 50
p0 5.379 ± 8.862
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

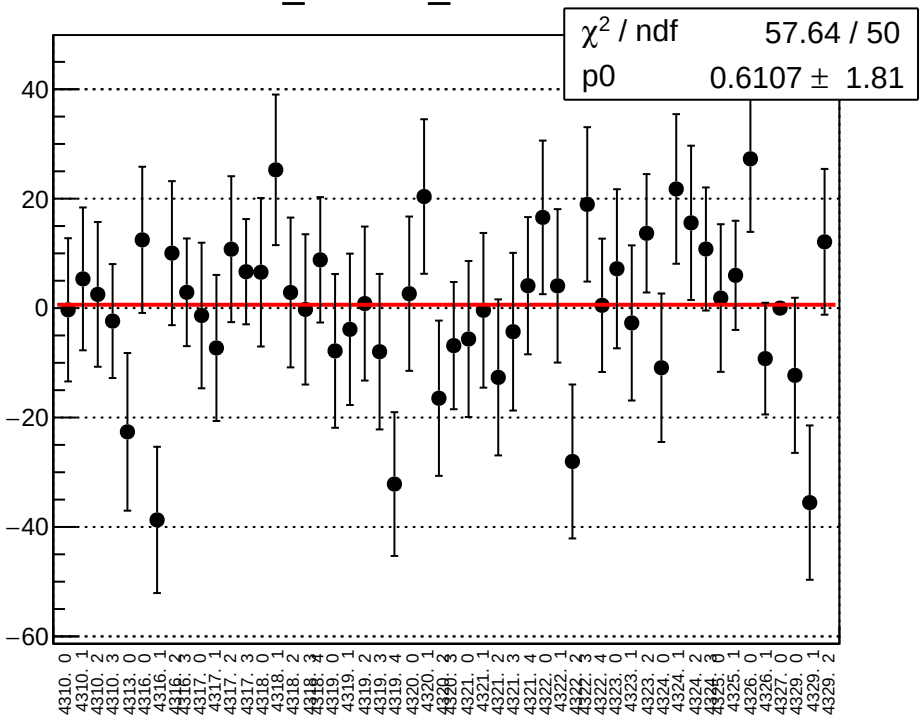

pull1D
Entries 52
Mean 0.0177
Std Dev 0.9942
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

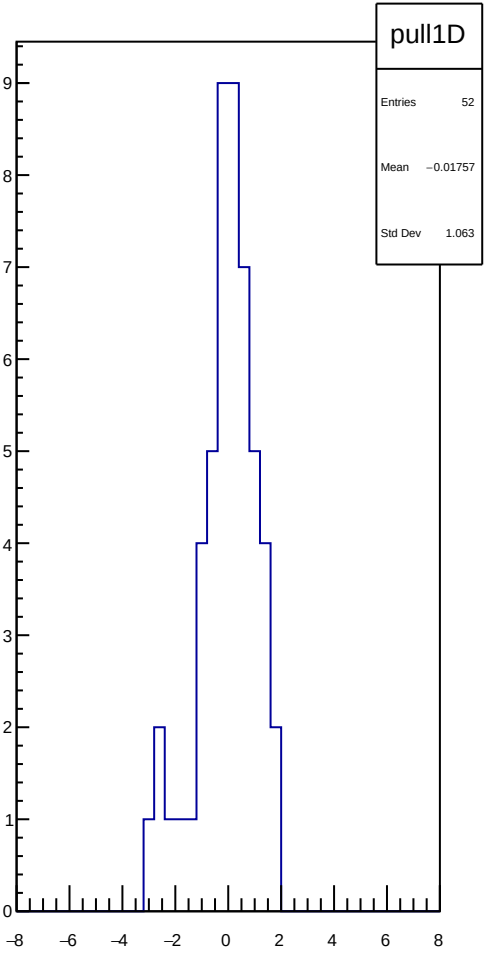

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 9.995e+05 / 50
p0 1288 ± 6.266
200
180
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

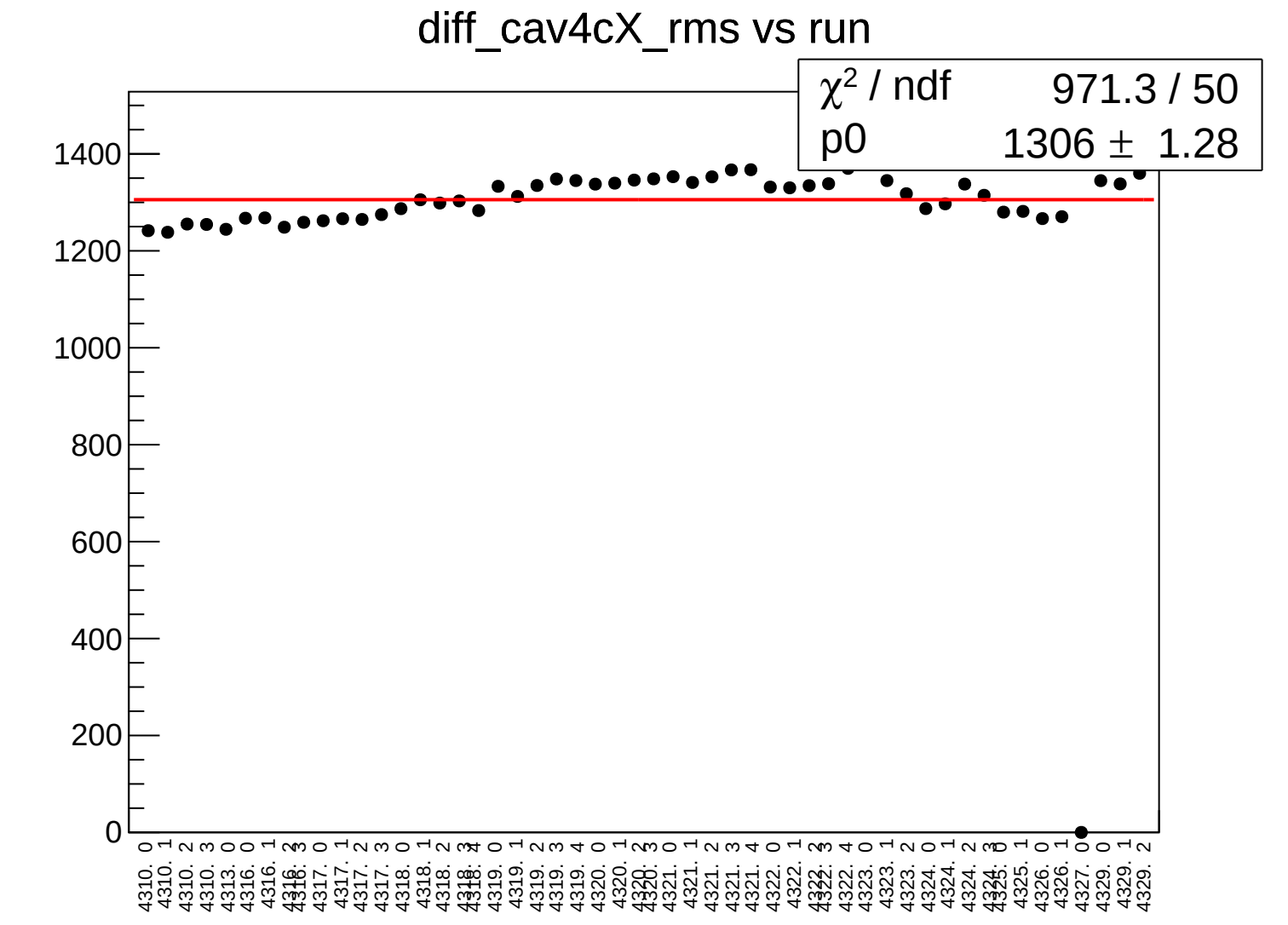

diff_cav4bY_mean vs run
χ² / ndf 36.29 / 50
p0 −18.9 ± 44.79
1500
1000
500
0
−500
−1000
−1500
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

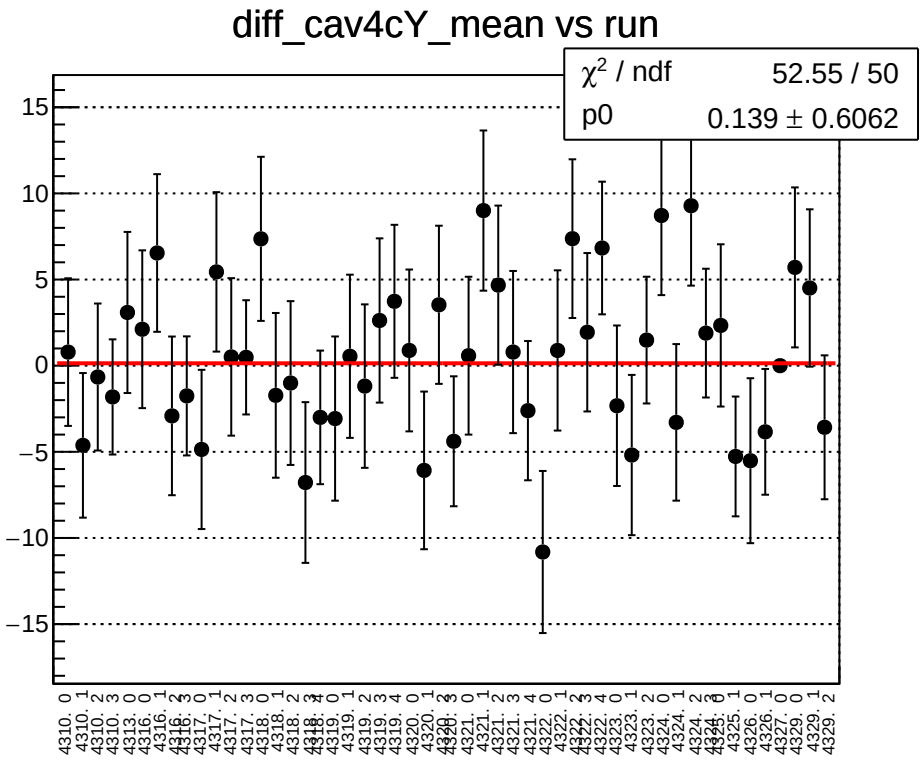

pull1D
Entries 52
Mean −0.01853
Std Dev 0.8434
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

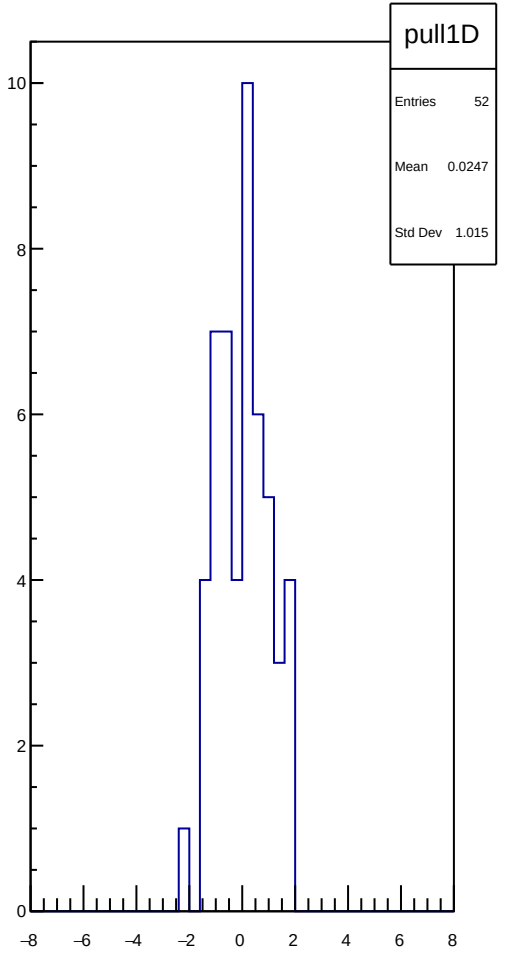

diff_cav4bY_rms vs run
χ² / ndf 2.181e+05 / 50
p0 2.875e+04 ± 31.67
60000
50000
40000
30000
20000
10000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

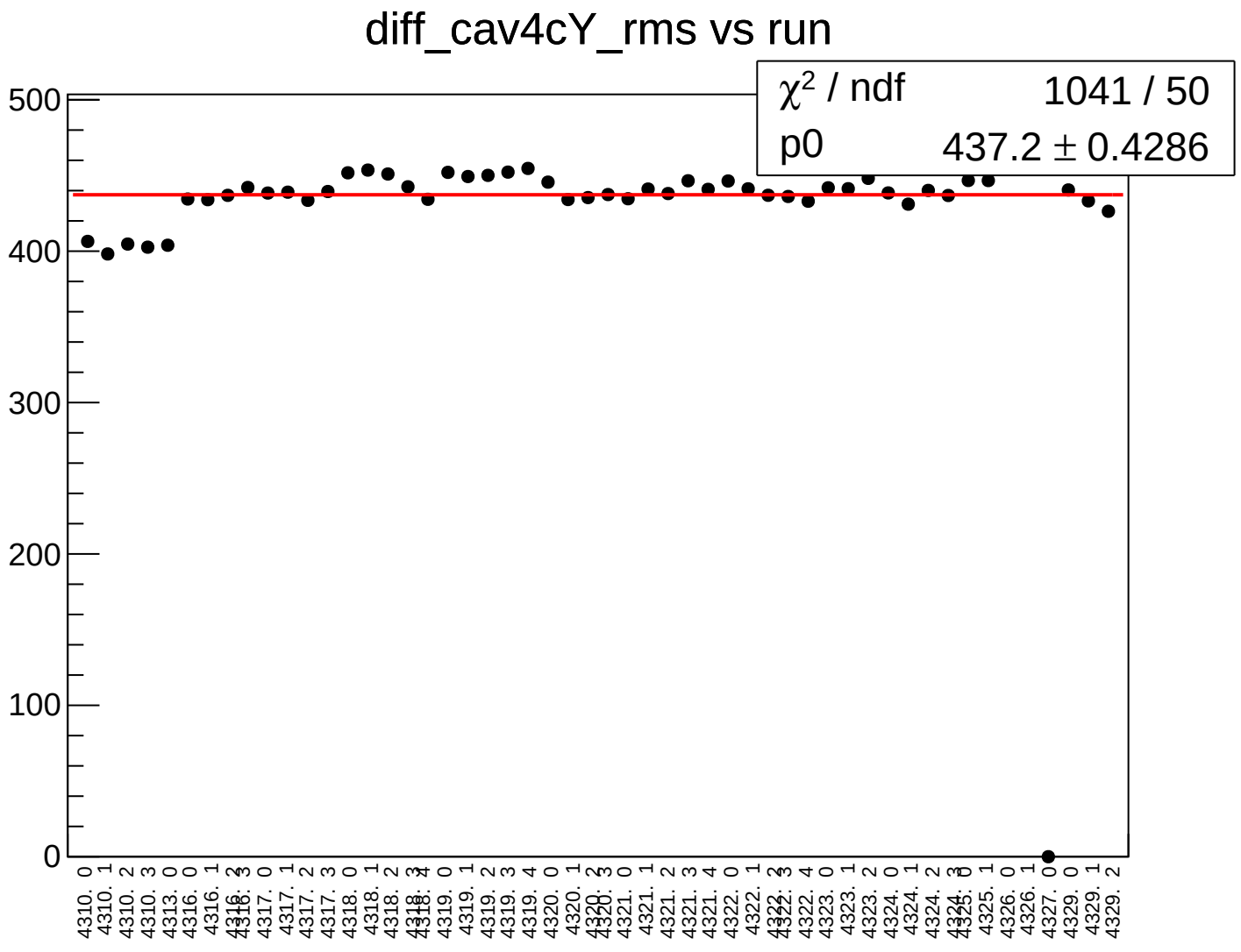

diff_cav4cX_mean vs run
χ² / ndf 57.64 / 50
p0 0.6107 ± 1.81
40
20
0
−20
−40
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

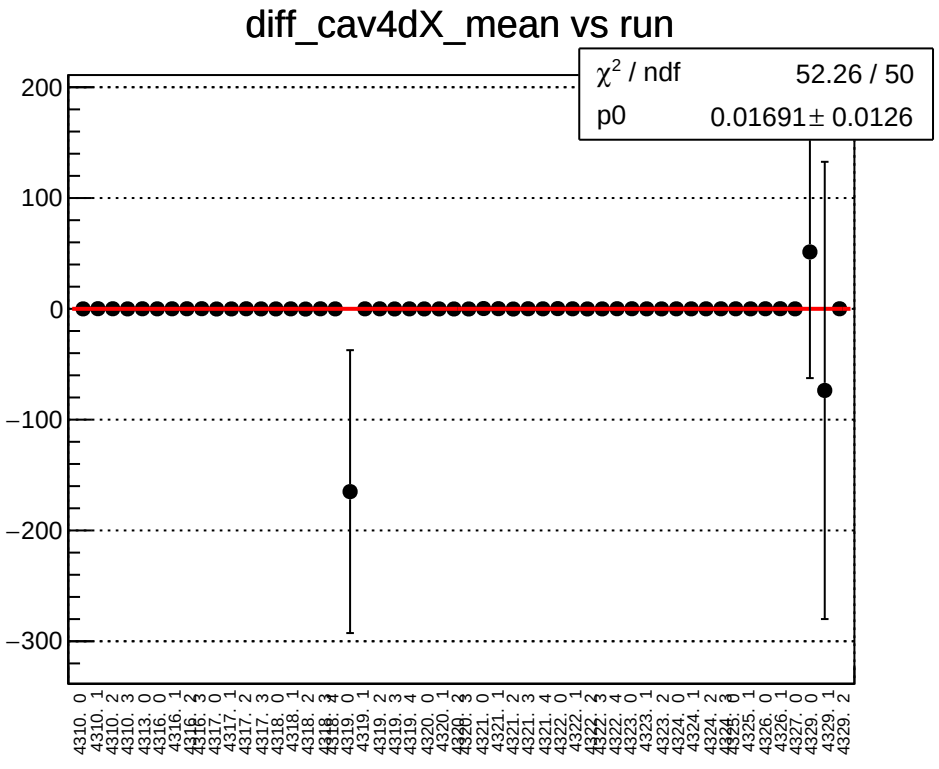

pull1D
Entries 52
Mean −0.01757
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

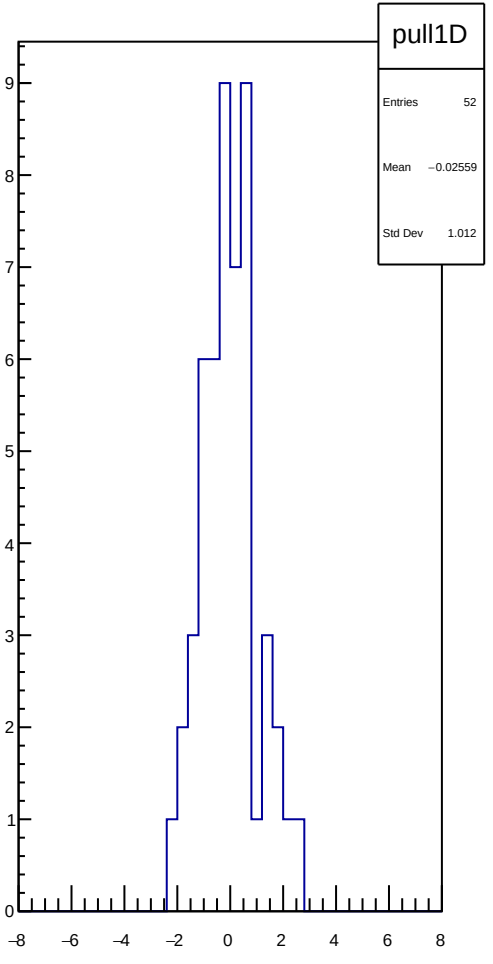

diff_cav4cX_rms vs run
χ² / ndf 971.3 / 50
p0 1306 ± 1.28
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

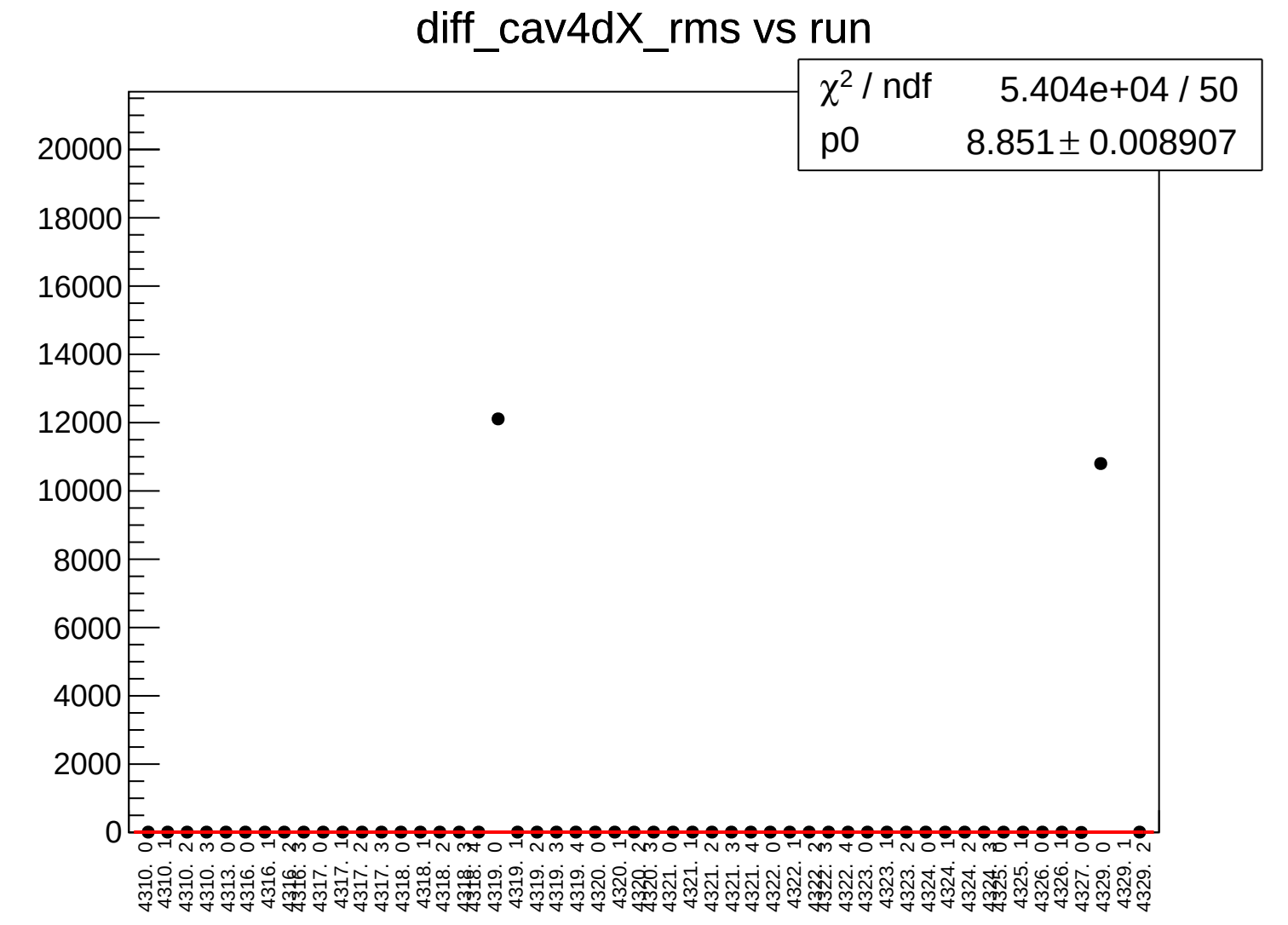

diff_cav4cY_mean vs run
χ² / ndf 52.55 / 50
p0 0.139 ± 0.6062
15
10
5
0
−5
−10
−15
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

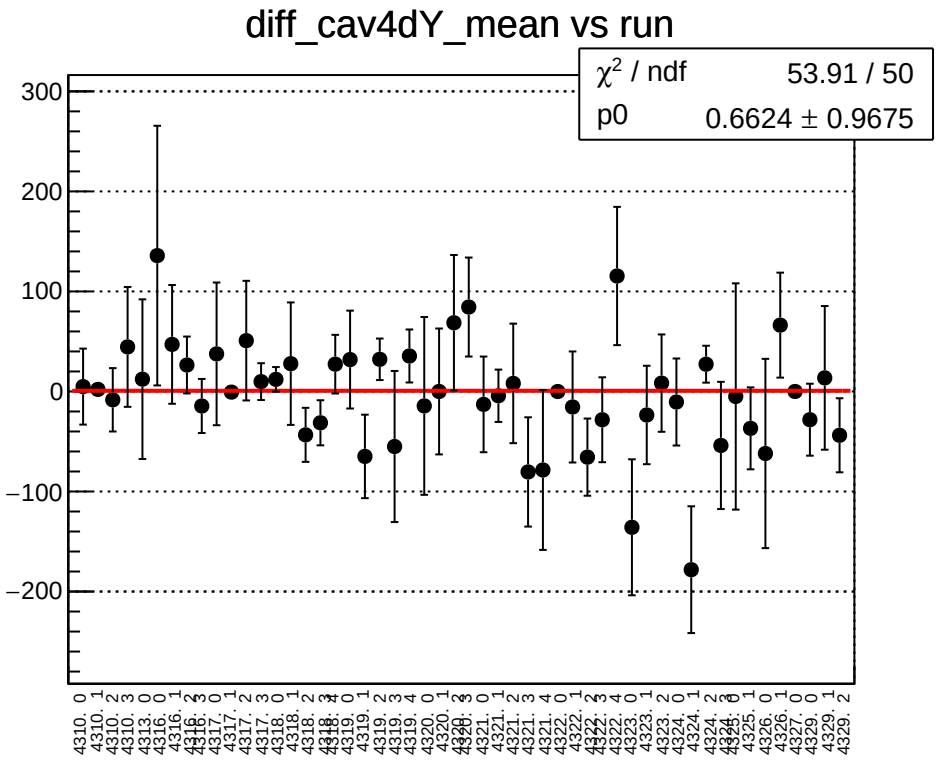

pull1D
Entries 52
Mean 0.0247
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

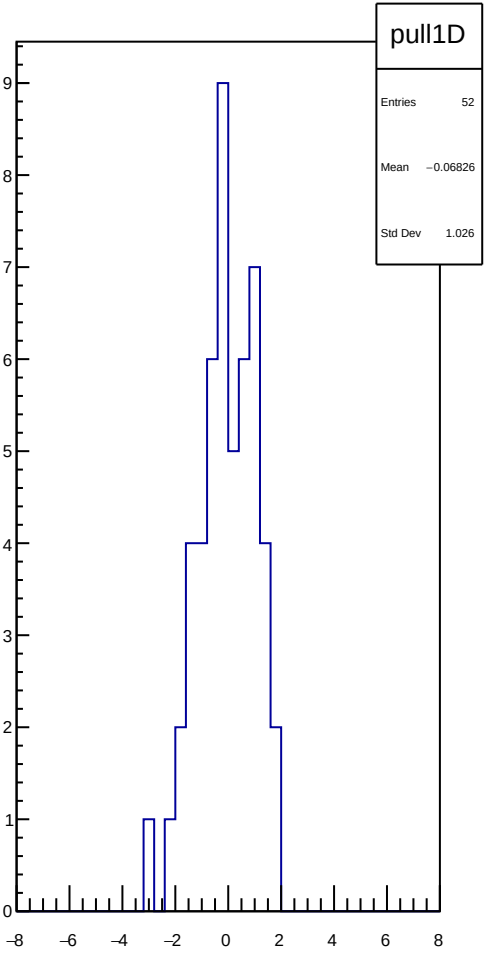

diff_cav4cY_rms vs run
χ² / ndf 1041 / 50
p0 437.2 ± 0.4286
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

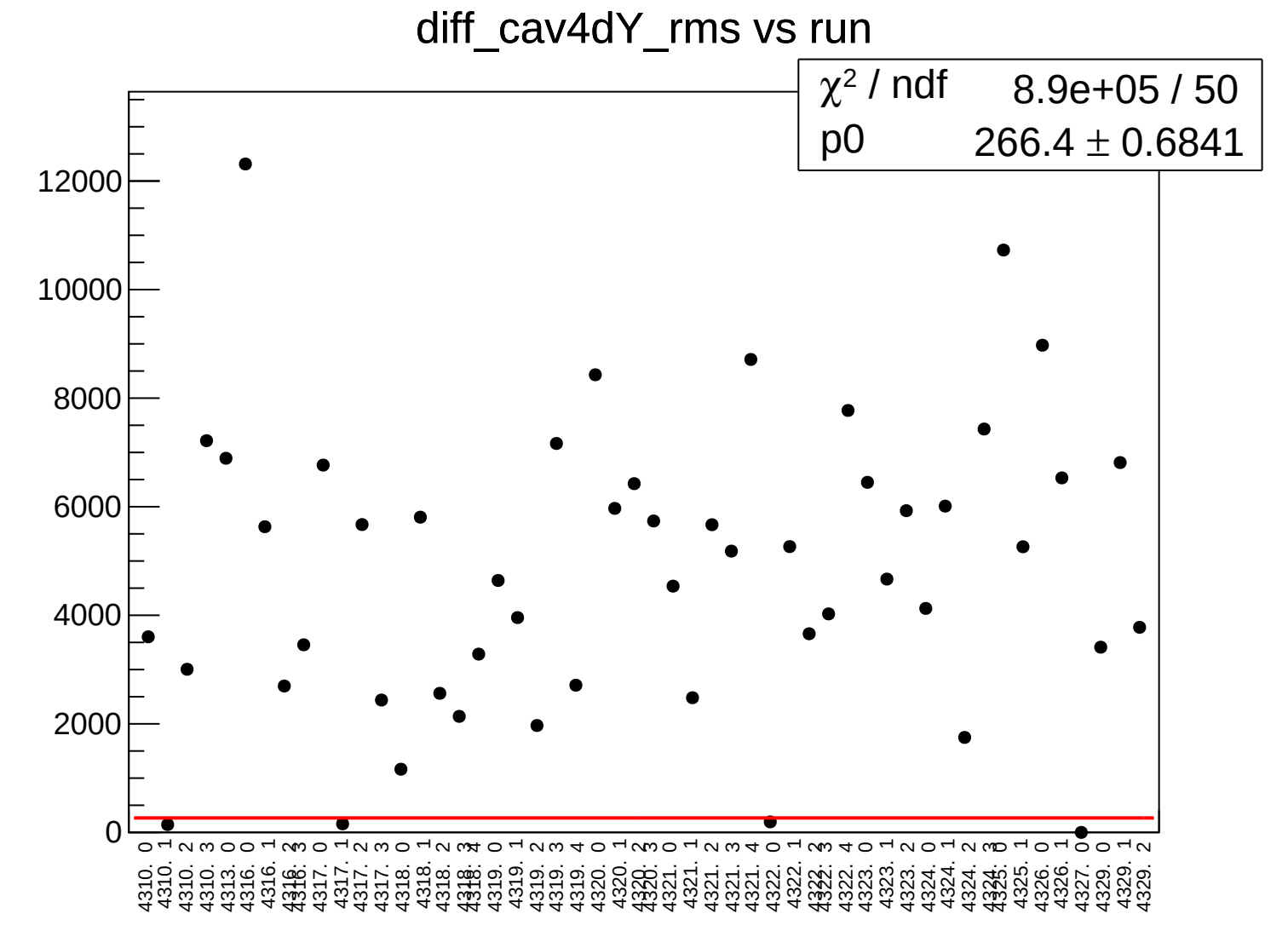

diff_cav4dX_mean vs run
χ² / ndf 52.26 / 50
p0 0.01691 ± 0.0126
200
100
0
−100
−200
−300

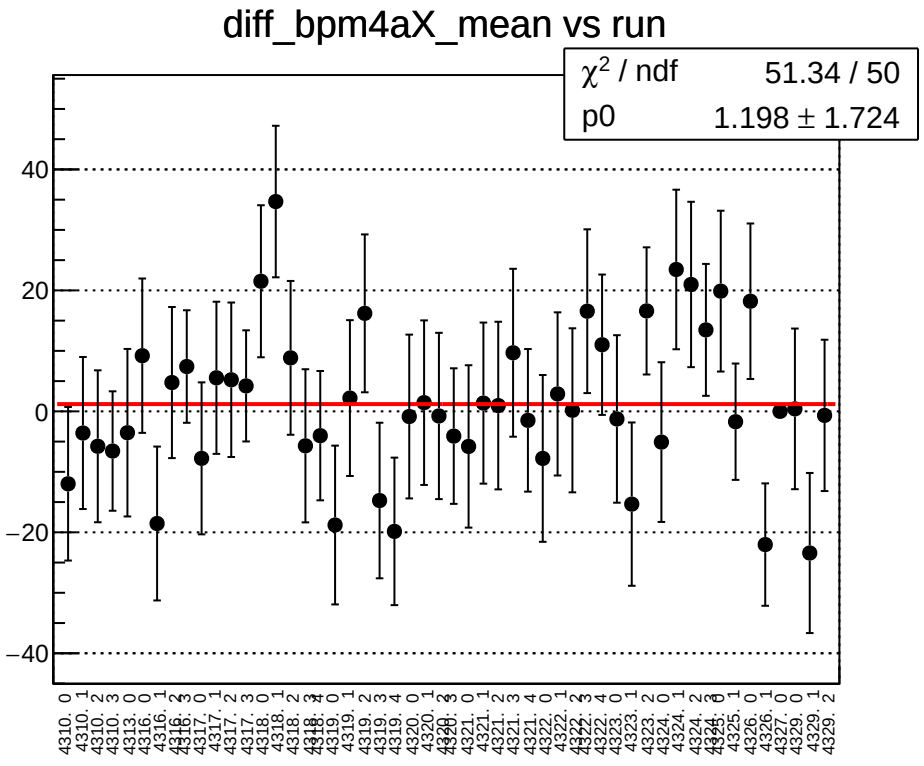

pull1D
Entries 52
Mean −0.02559
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

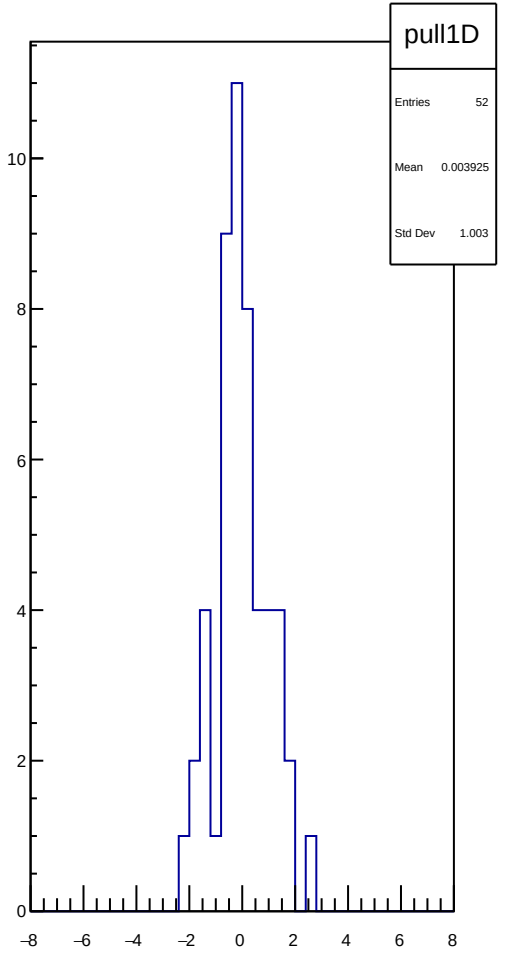

diff_cav4dX_rms vs run
χ^2 / ndf 5.404e+04 / 50
p0 8.851 ± 0.008907
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0

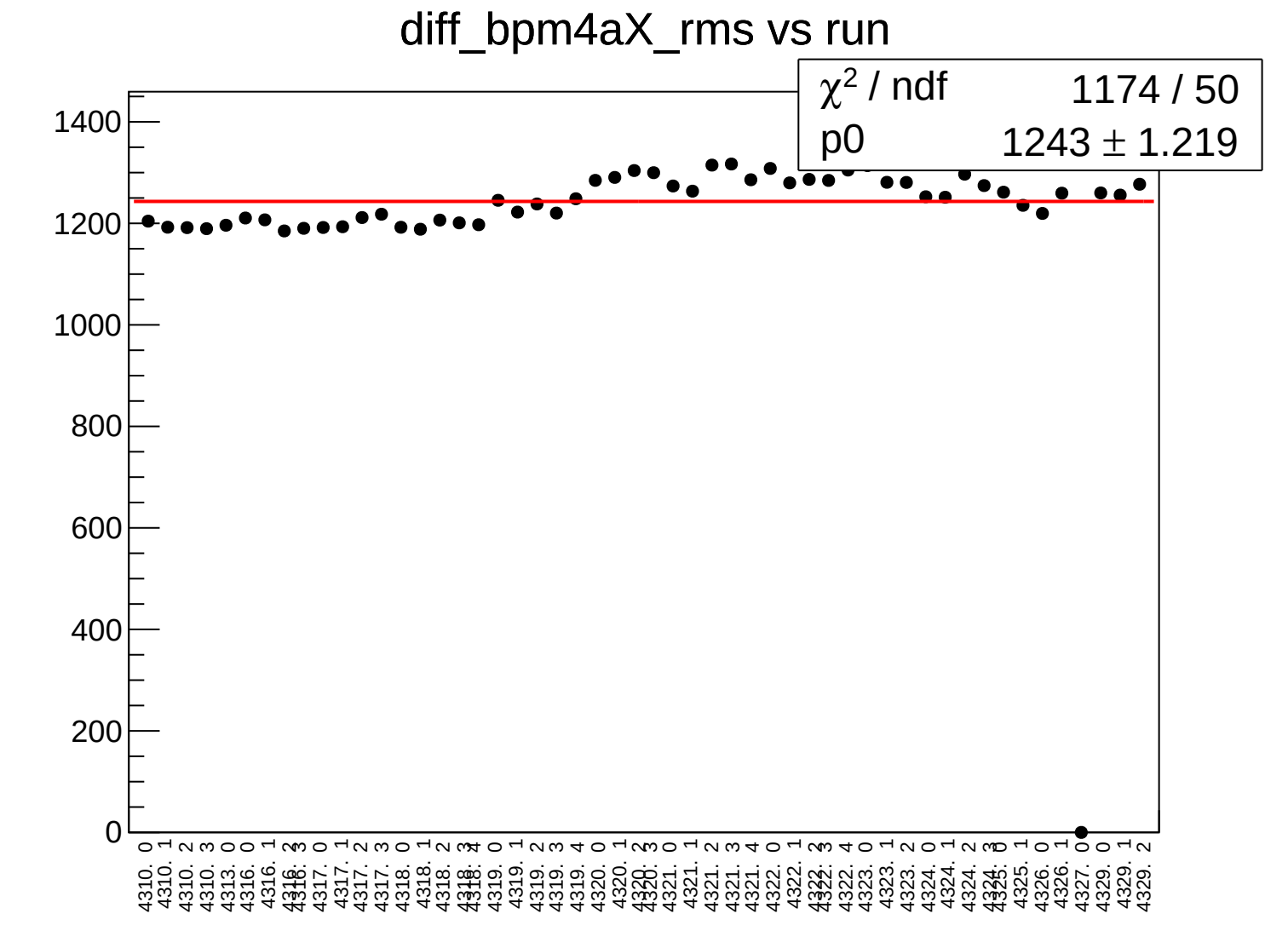

diff_cav4dY_mean vs run
χ² / ndf 53.91 / 50
p0 0.6624 ± 0.9675
300
200
100
0
−100
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

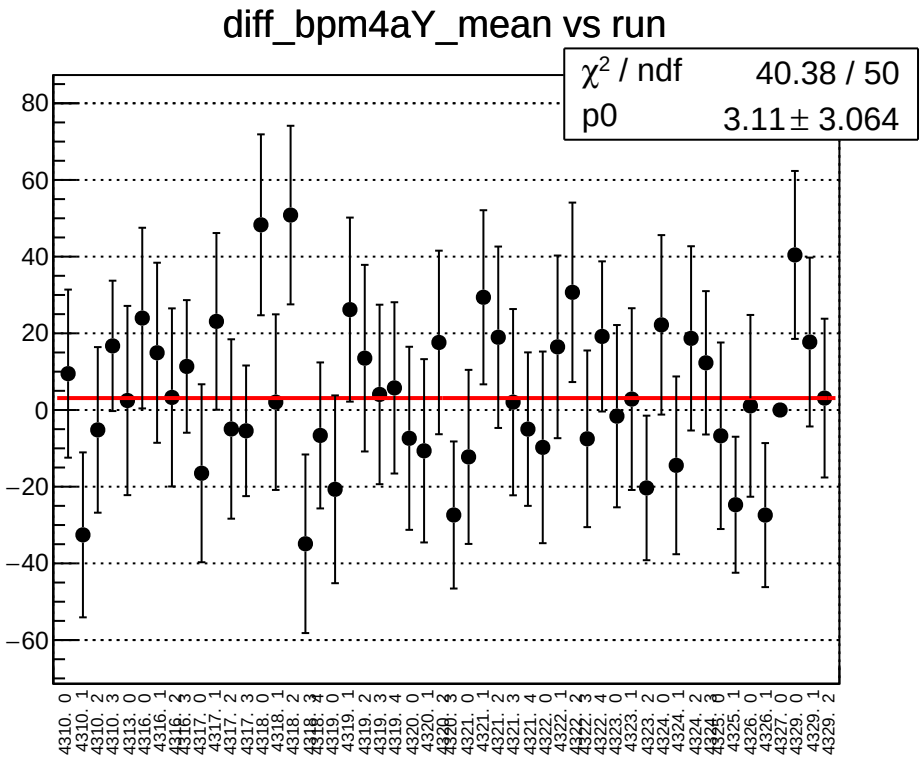

pull1D
Entries 52
Mean −0.06826
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

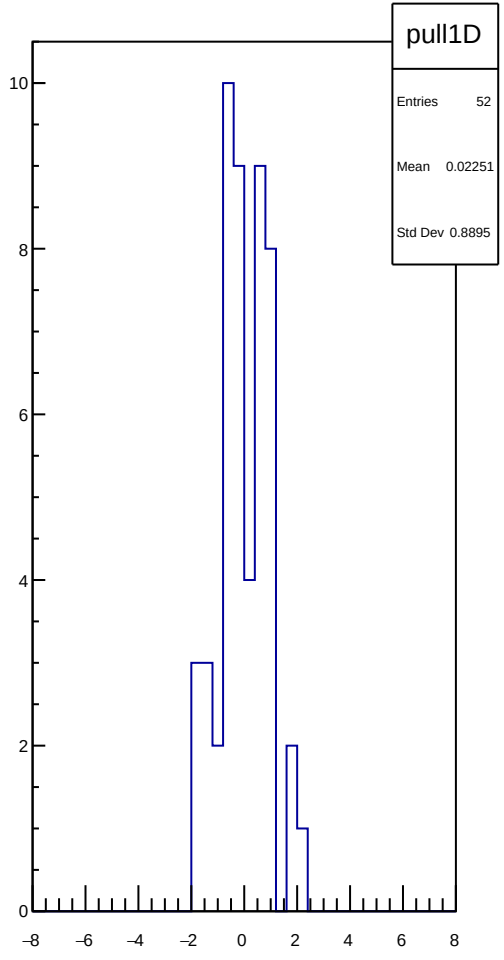

diff_cav4dY_rms vs run
χ² / ndf 8.9e+05 / 50
p0 266.4 ± 0.6841
12000
10000
8000
6000
4000
2000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

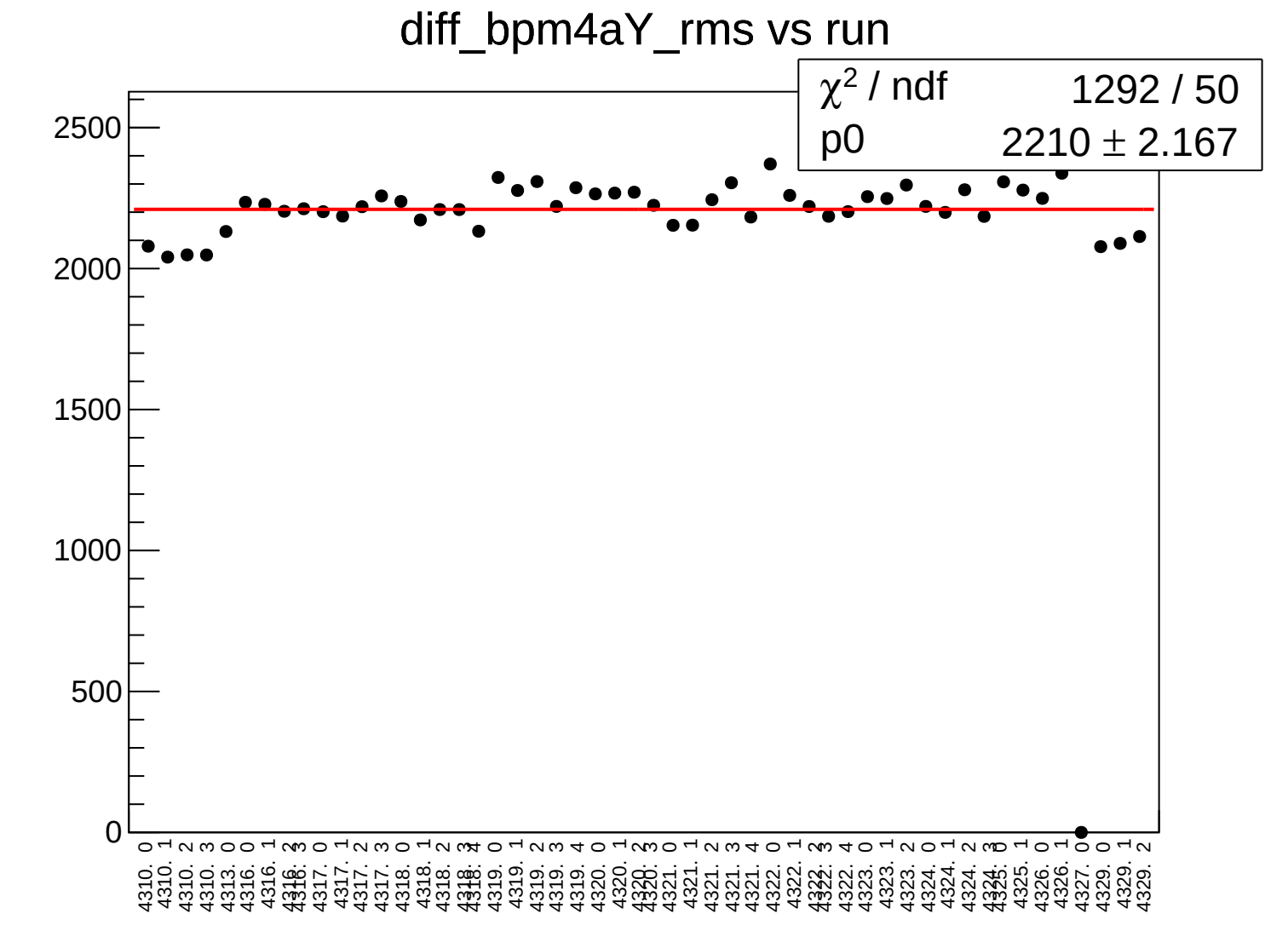

diff_bpm4aX_mean vs run
χ² / ndf 51.34 / 50
p0 1.198 ± 1.724
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

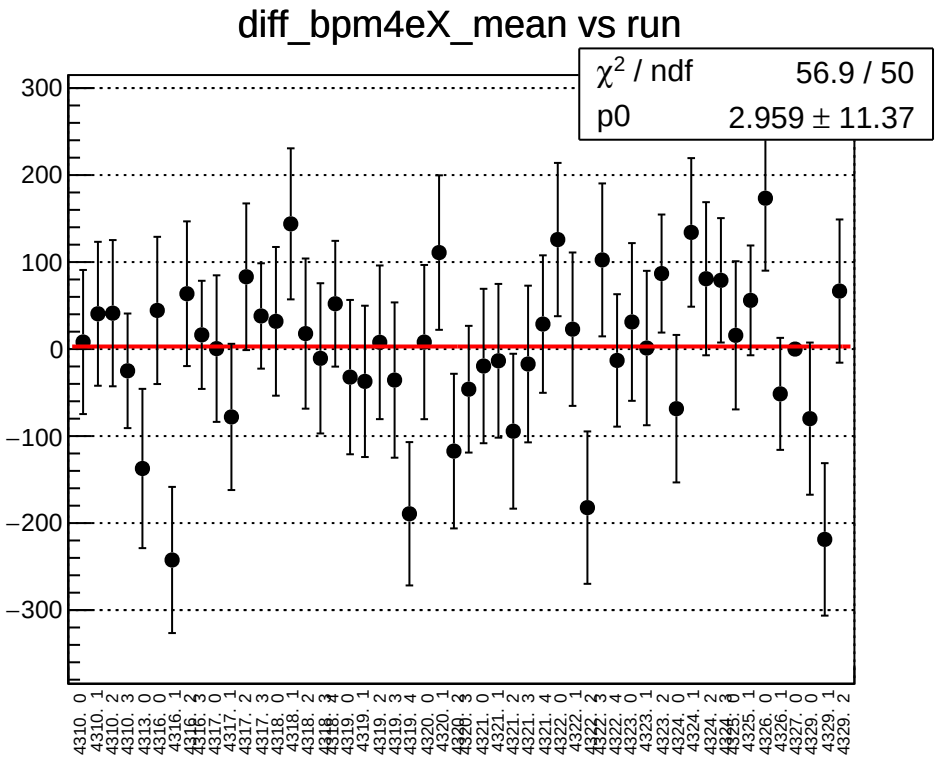

pull1D
Entries 52
Mean 0.003925
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

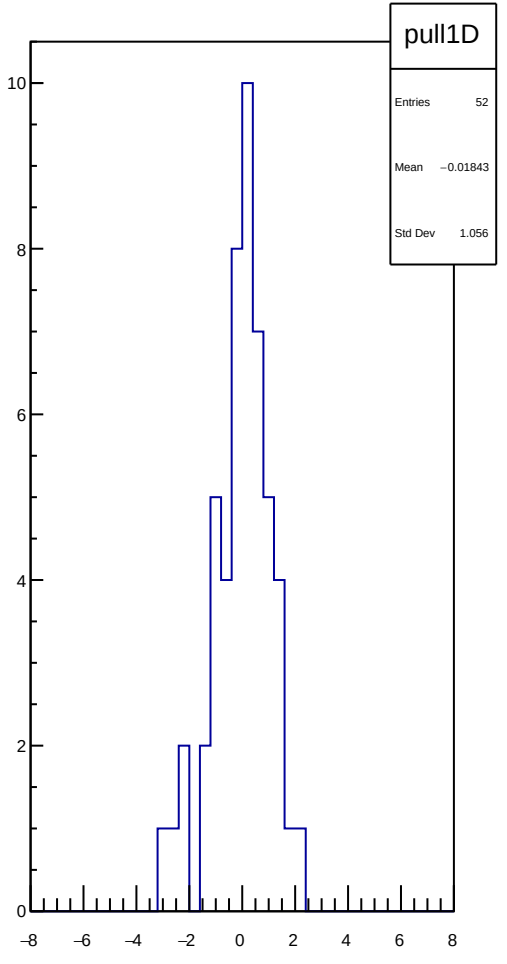

diff_bpm4aX_rms vs run
χ² / ndf 1174 / 50
p0 1243 ± 1.219
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

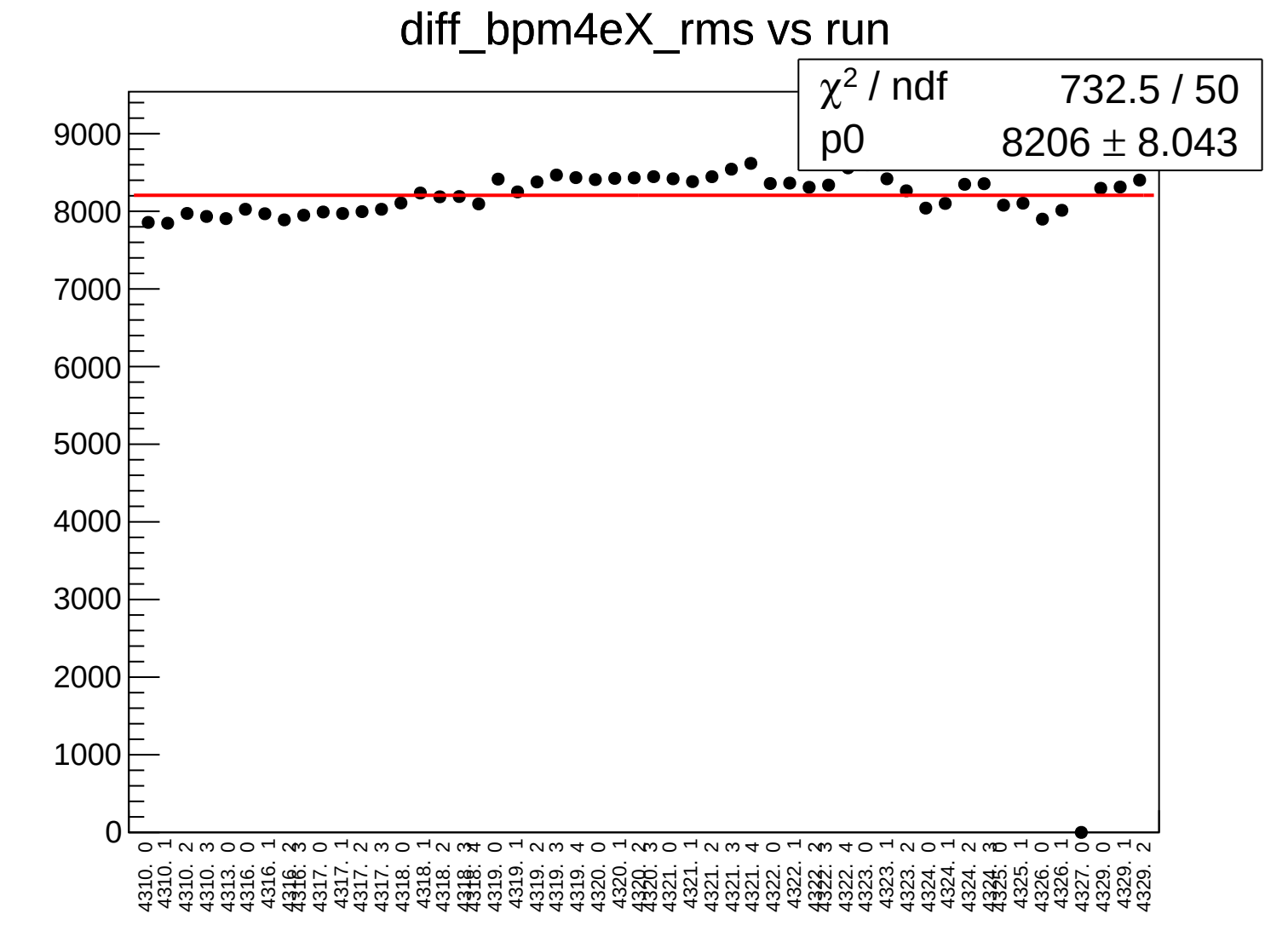

diff_bpm4aY_mean vs run
χ^2 / ndf 40.38 / 50
p0 3.11 ± 3.064
80
60
40
20
0
−20
−40
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

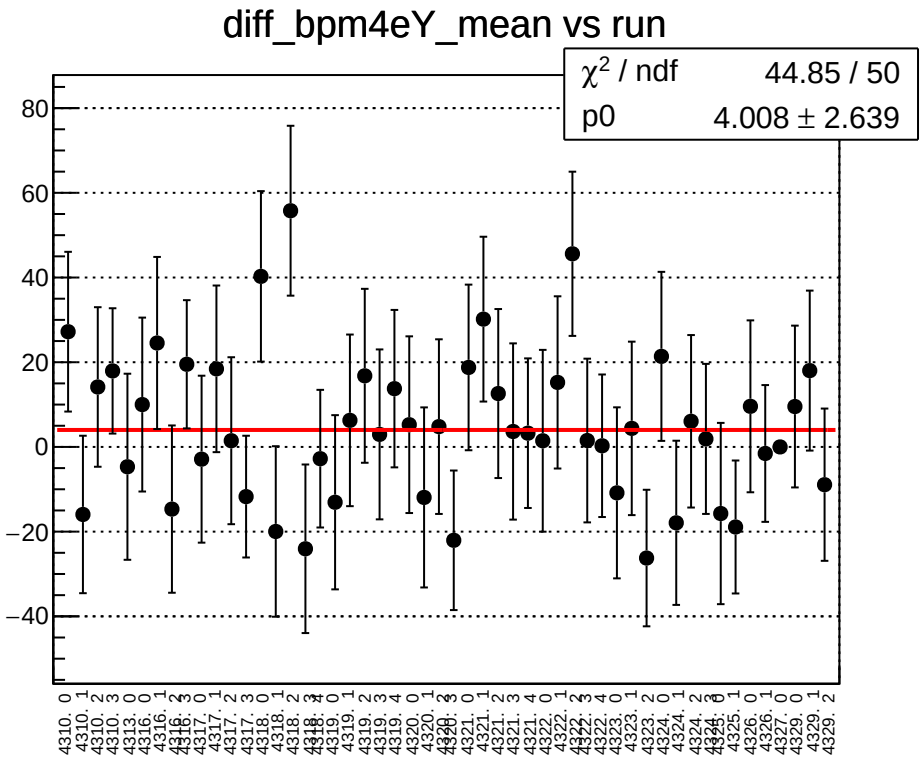

pull1D
Entries 52
Mean 0.02251
Std Dev 0.8895
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

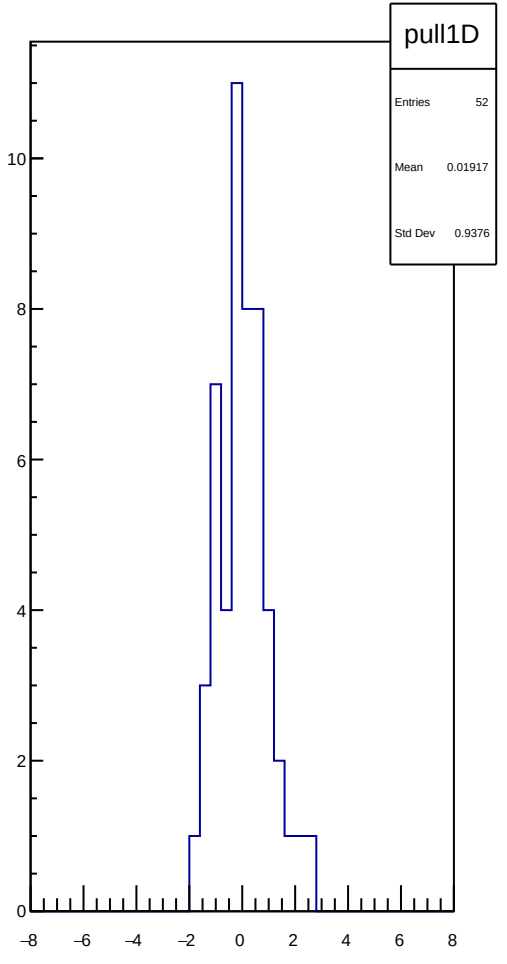

diff_bpm4aY_rms vs run
χ² / ndf 1292 / 50
p0 2210 ± 2.167
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

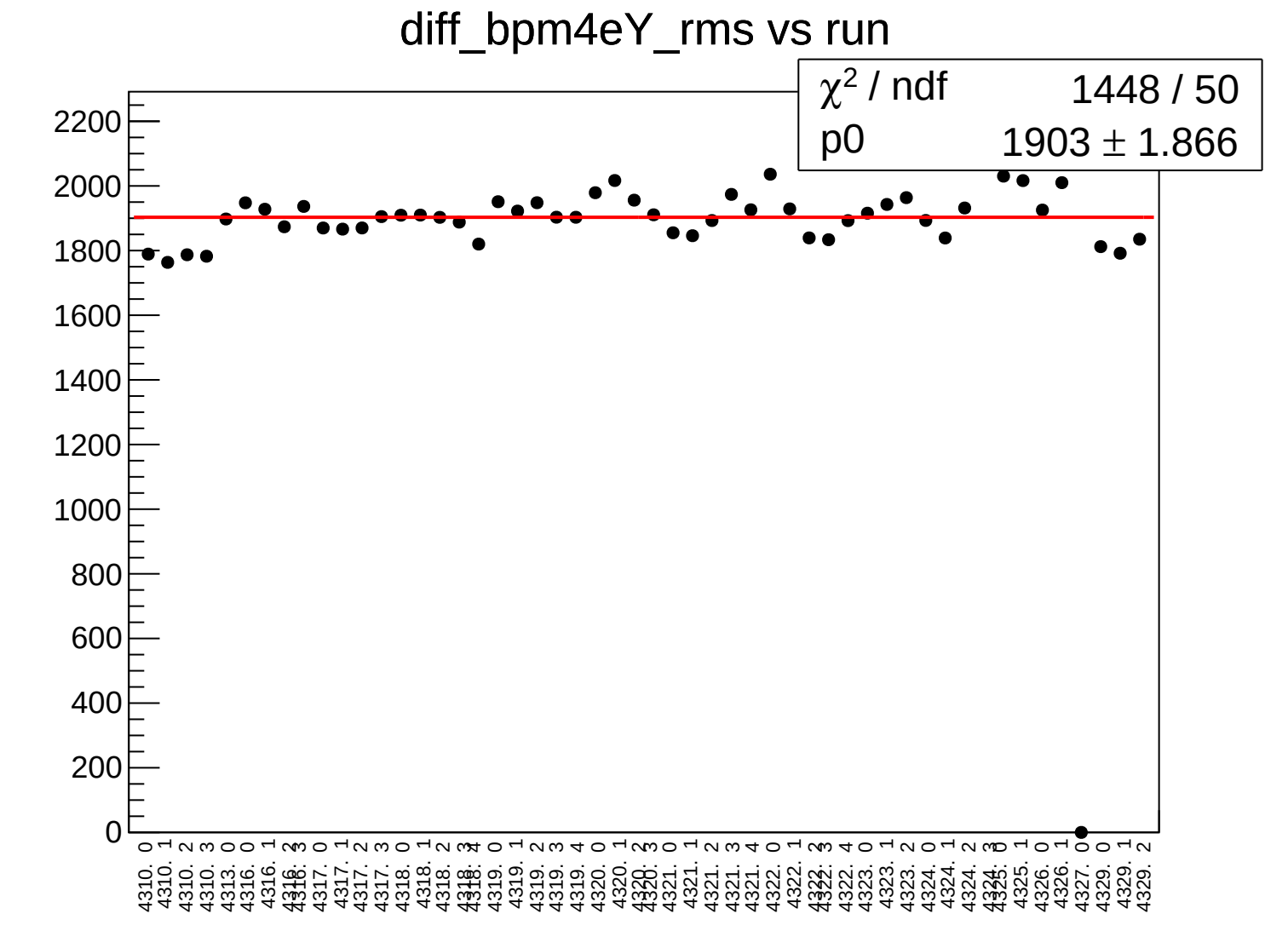

diff_bpm4eX_mean vs run
χ² / ndf 56.9 / 50
p0 2.959 ± 11.37
300
200
100
0
−100
−200
−300
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

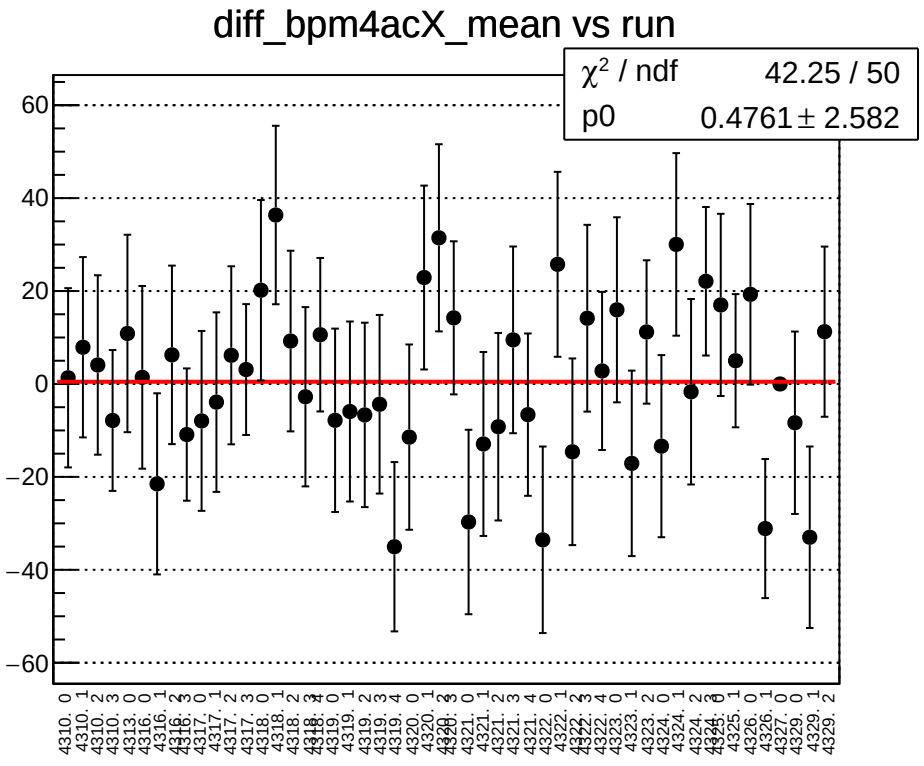

pull1D
Entries 52
Mean −0.01843
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

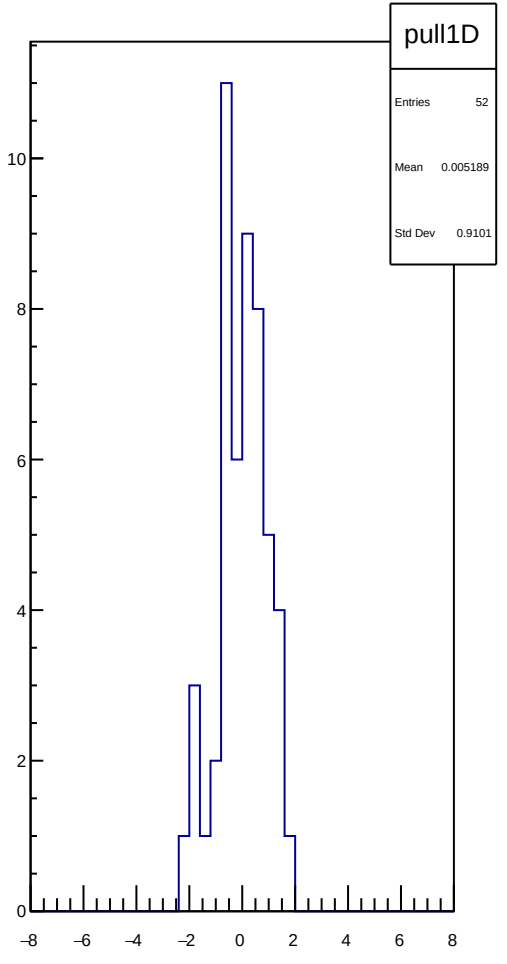

diff_bpm4eX_rms vs run
χ² / ndf 732.5 / 50
p0 8206 ± 8.043
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

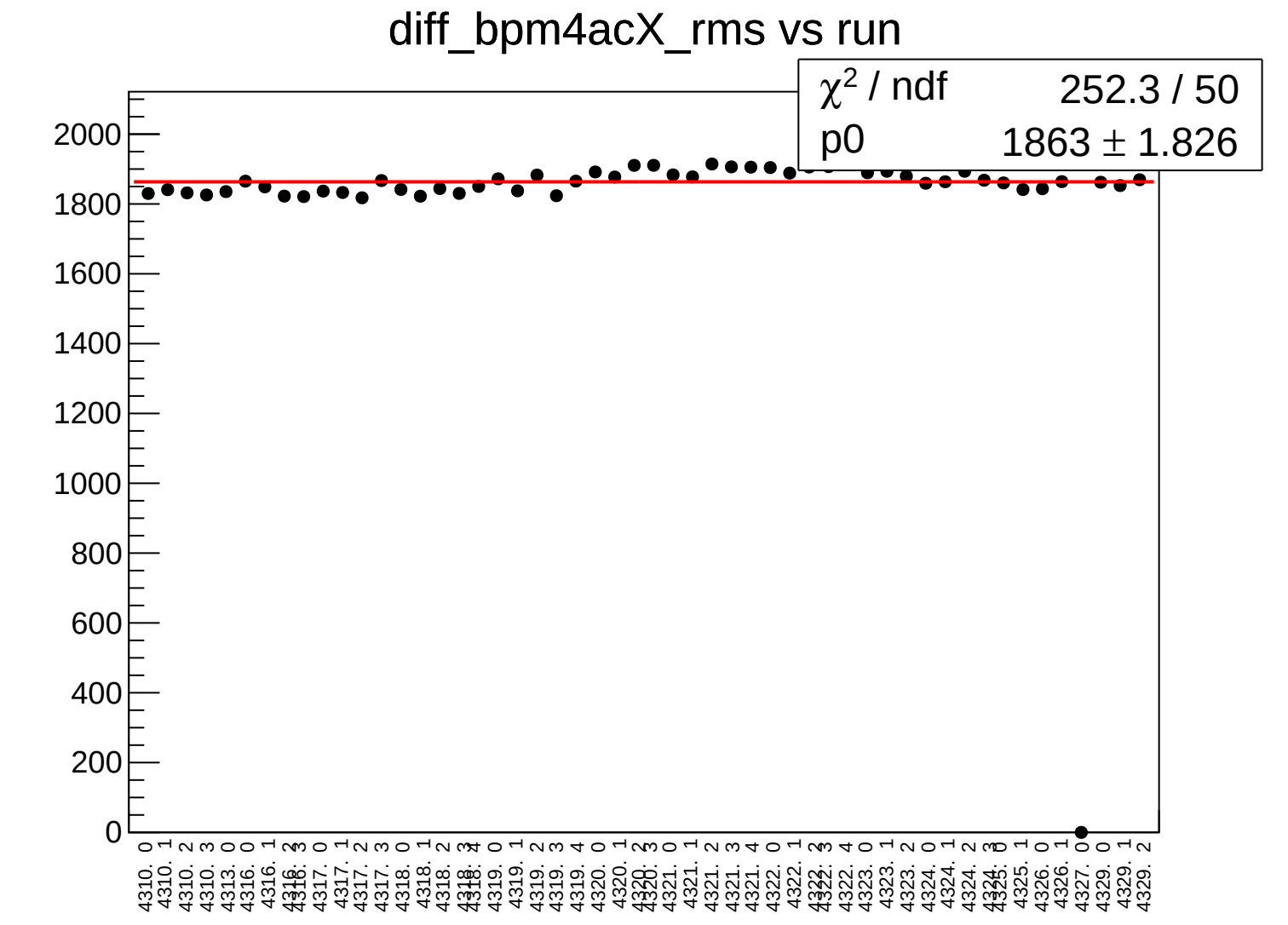

diff_bpm4eY_mean vs run
χ² / ndf 44.85 / 50
p0 4.008 ± 2.639
80
60
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

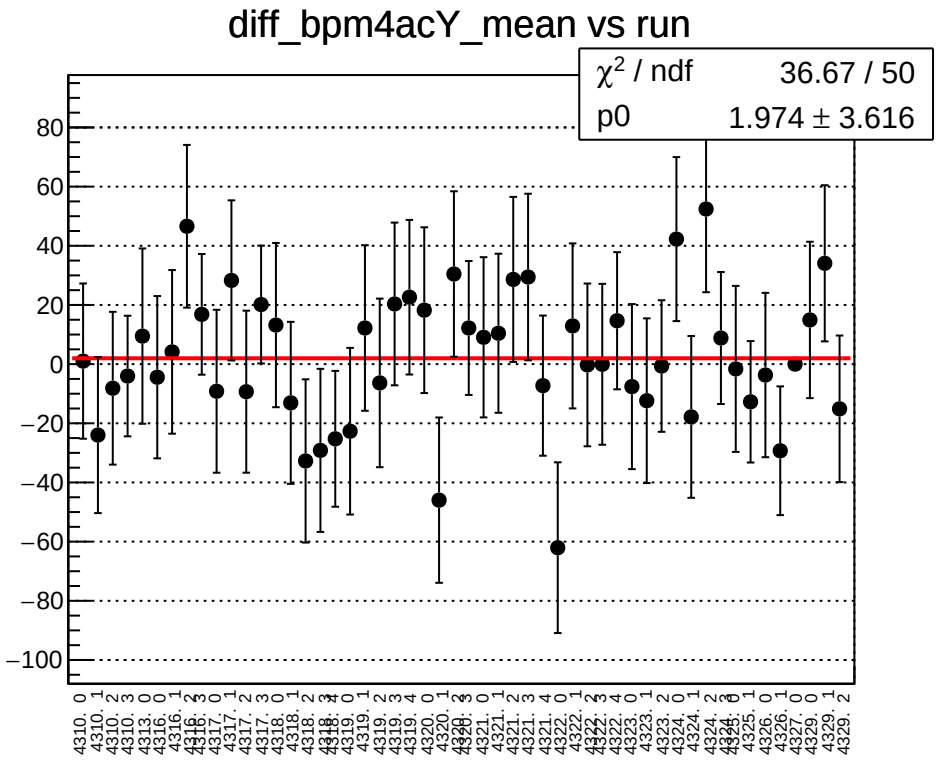

pull1D
Entries 52
Mean 0.01917
Std Dev 0.9376
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

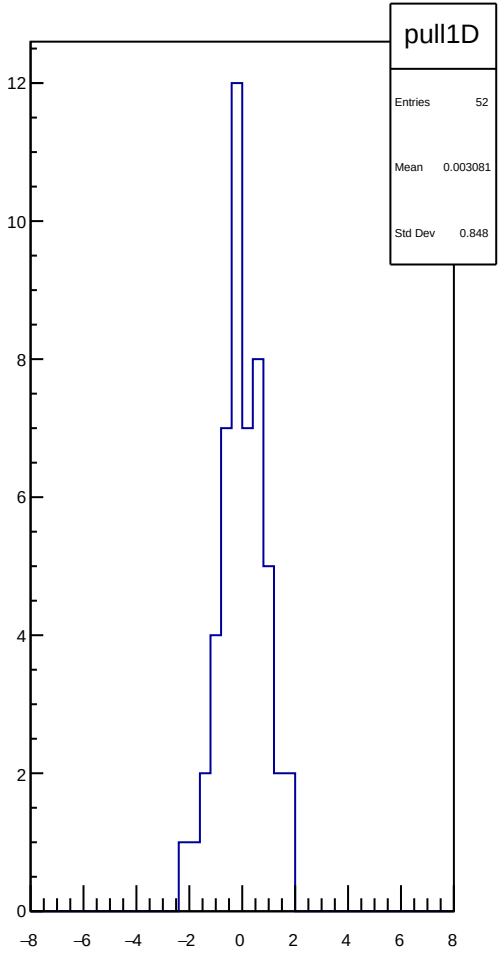

diff_bpm4eY_rms vs run
χ² / ndf 1448 / 50
p0 1903 ± 1.866
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

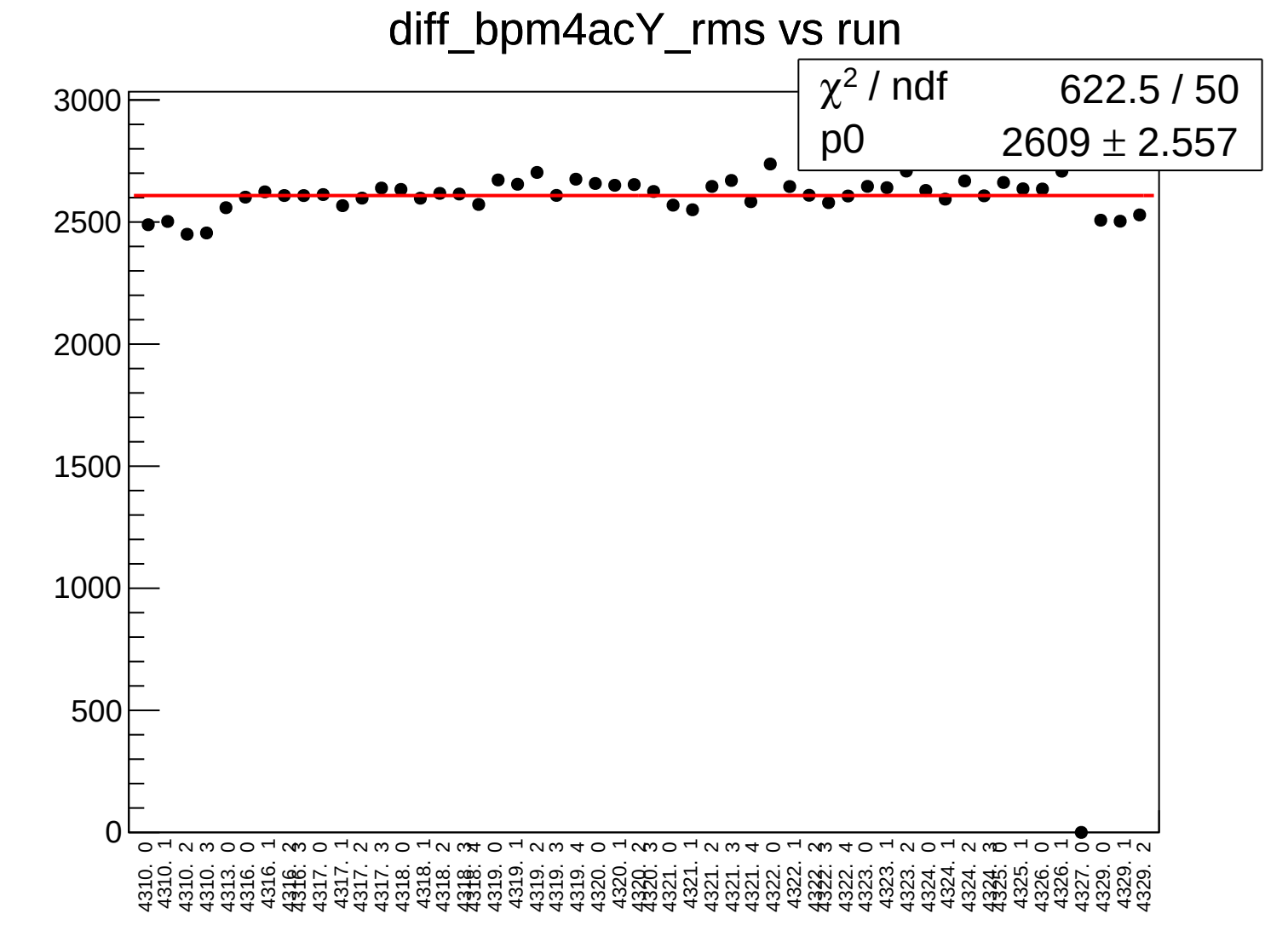

diff_bpm4acX_mean vs run
χ² / ndf 42.25 / 50
p0 0.4761 ± 2.582
60
40
20
0
−20
−40
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

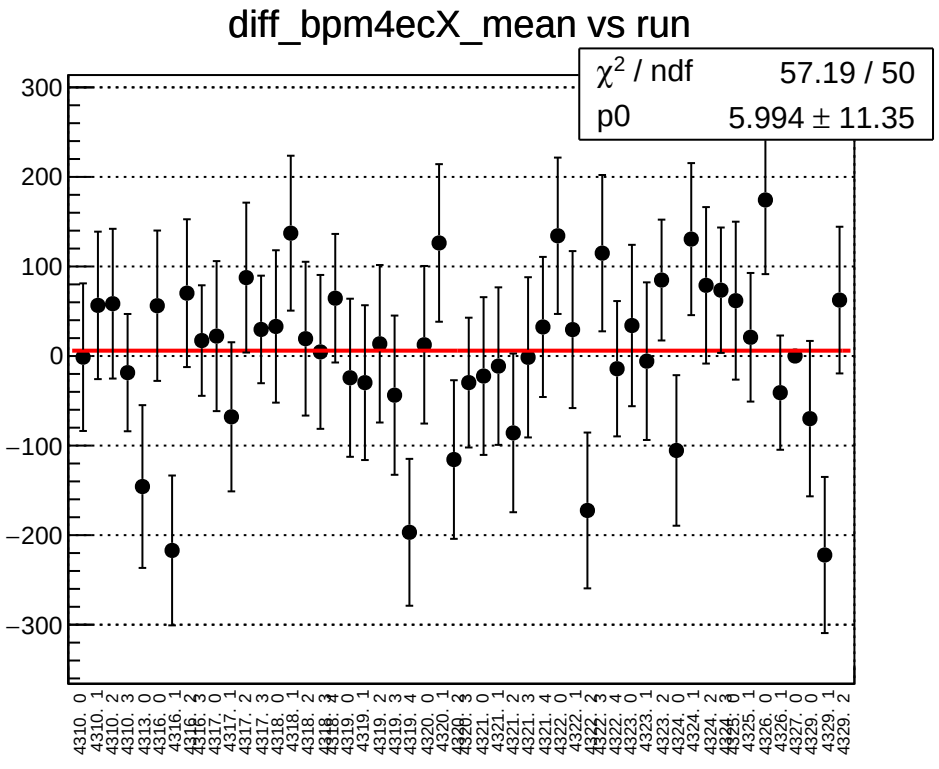

pull1D
Entries 52
Mean 0.005189
Std Dev 0.9101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

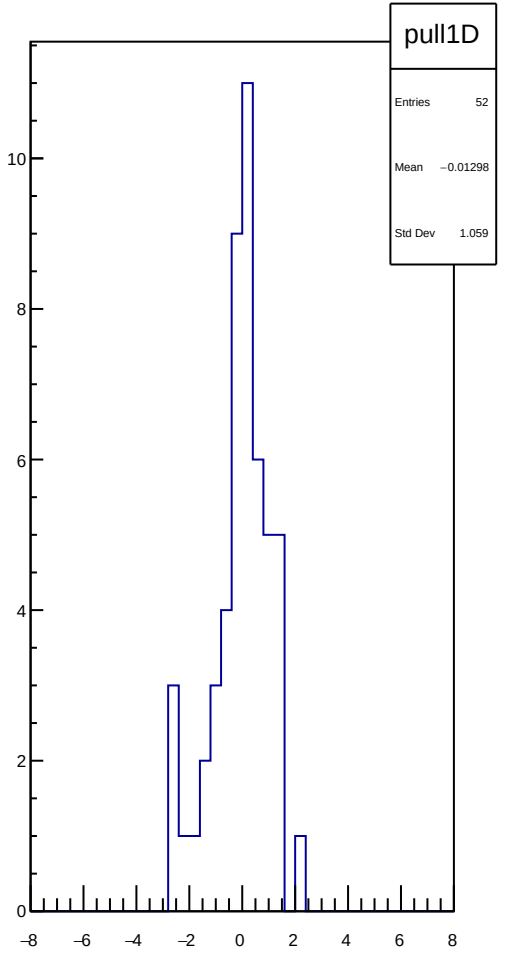

diff_bpm4acX_rms vs run
χ² / ndf 252.3 / 50
p0 1863 ± 1.826
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

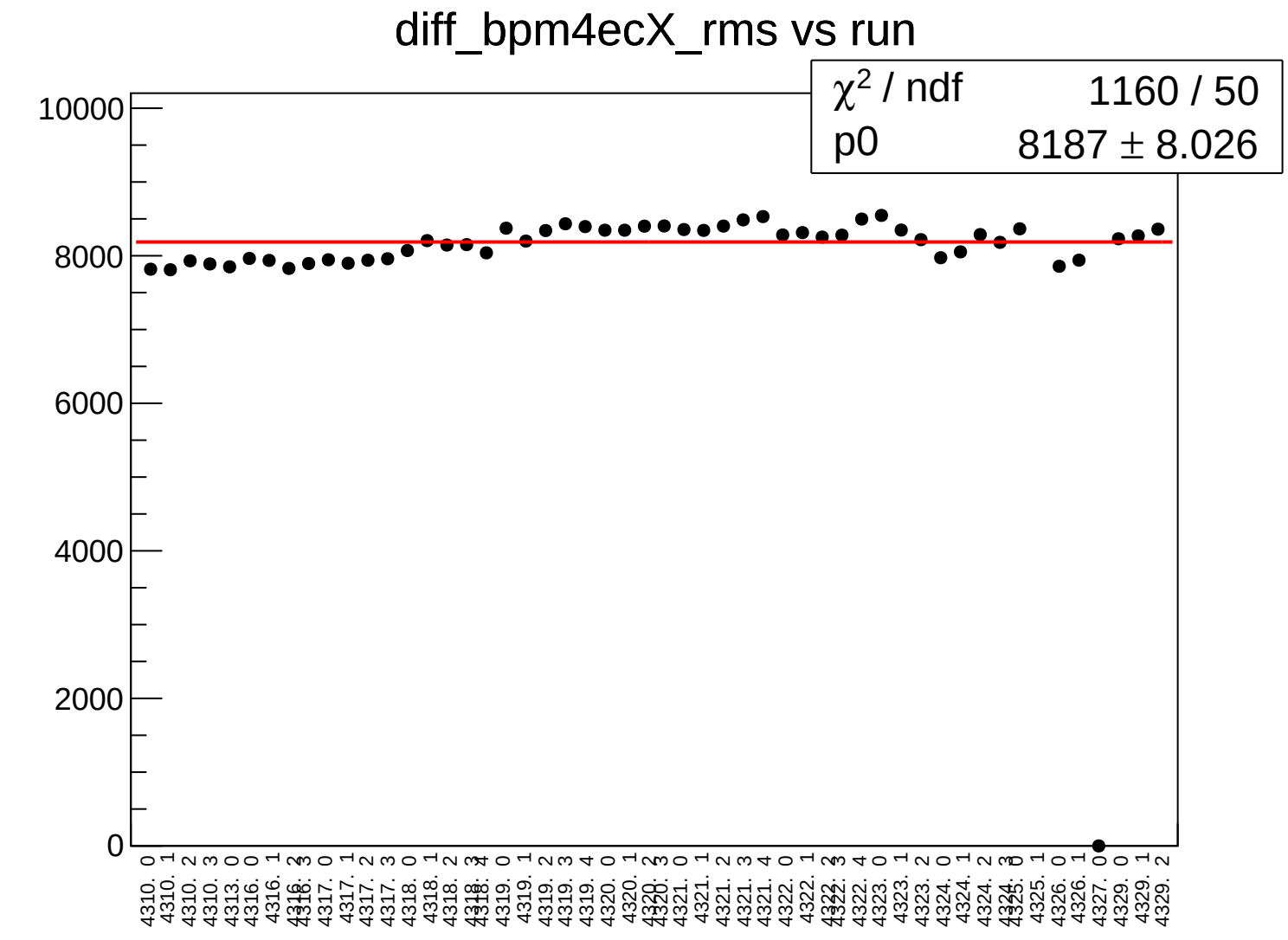

diff_bpm4acY_mean vs run
χ² / ndf 36.67 / 50
p0 1.974 ± 3.616
80
60
40
20
0
−20
−40
−60
−80
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

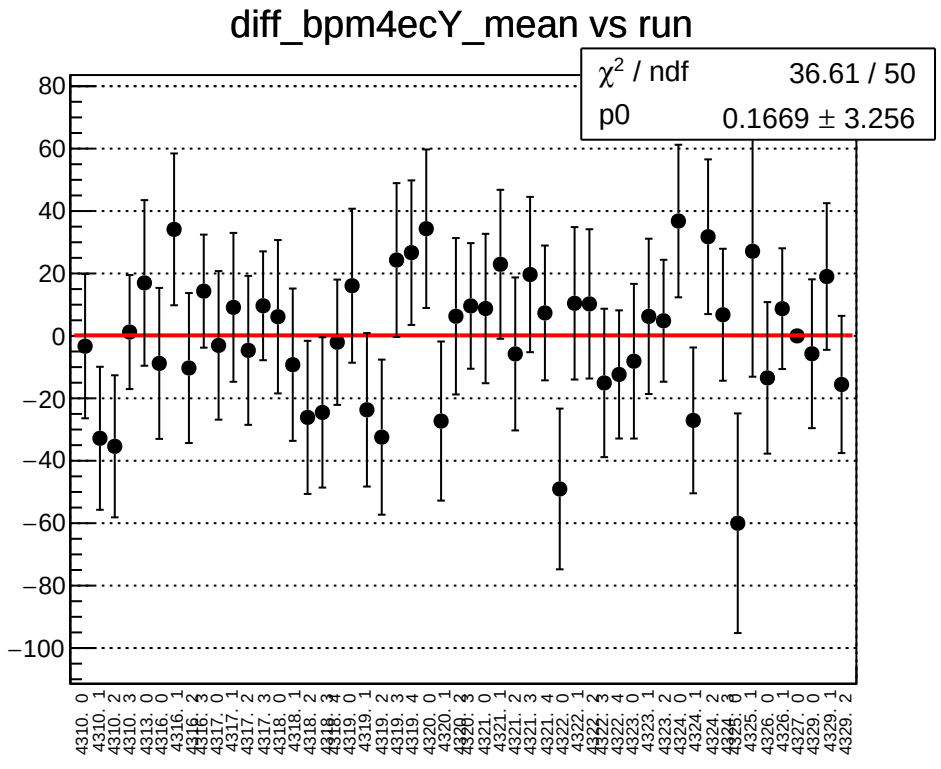

pull1D
Entries 52
Mean 0.003081
Std Dev 0.848
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

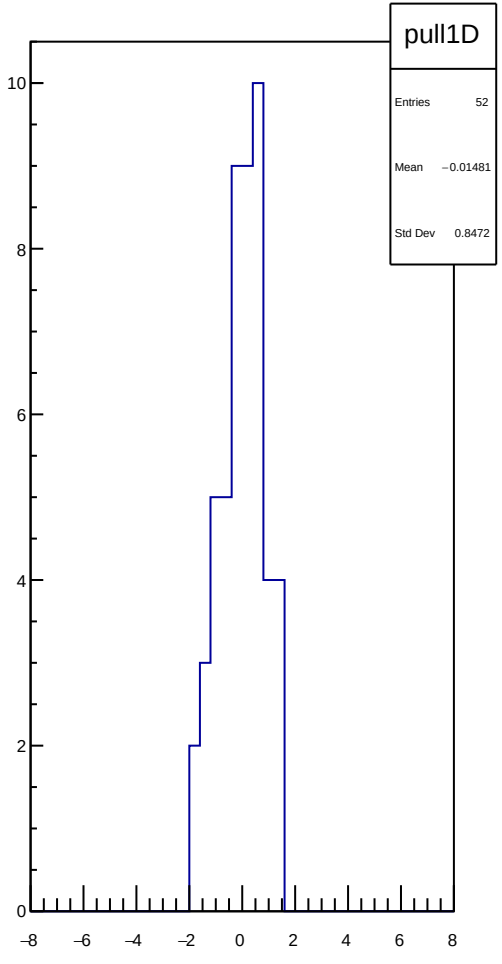

diff_bpm4acY_rms vs run
χ² / ndf 622.5 / 50
p0 2609 ± 2.557
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

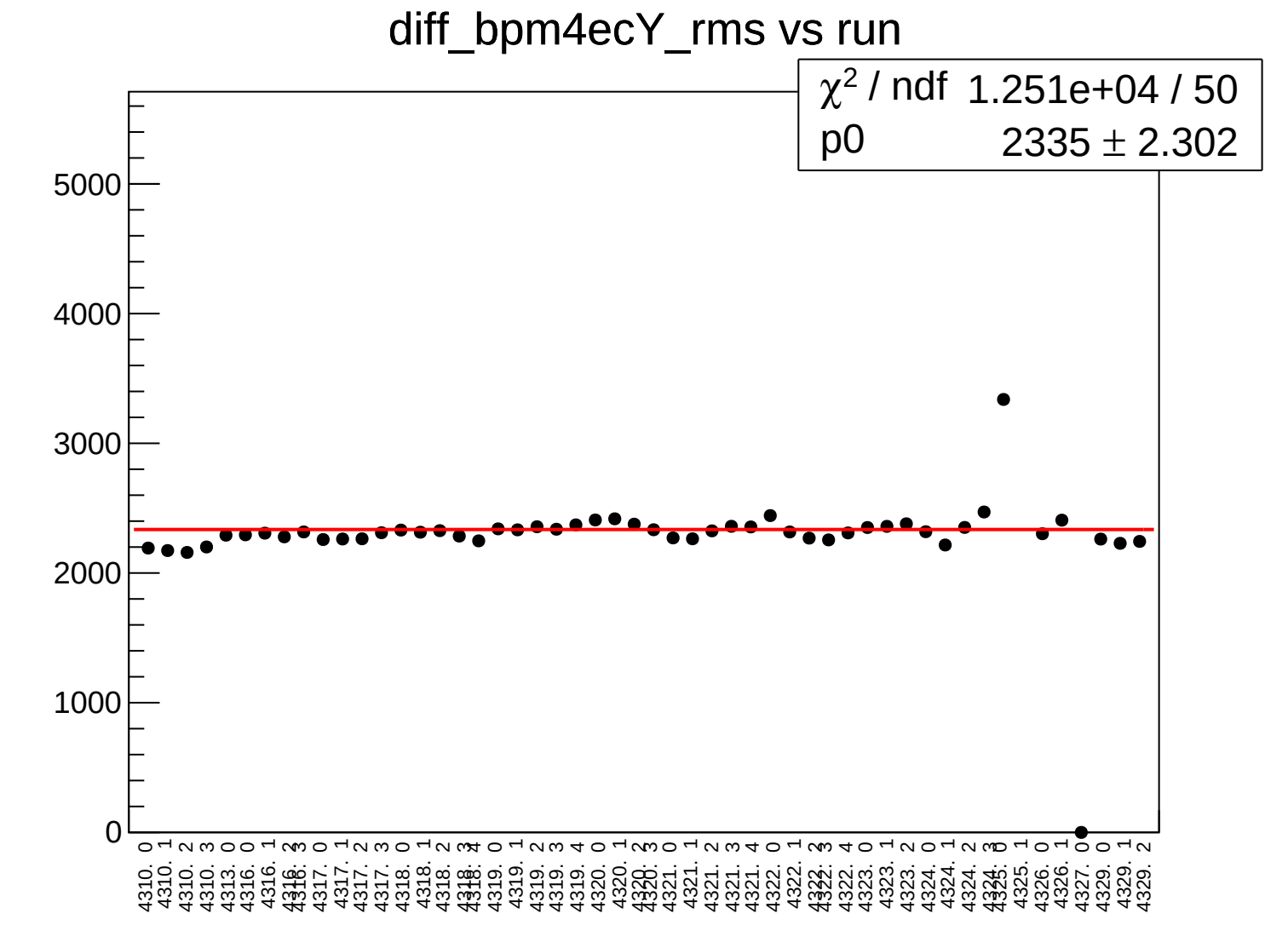

diff_bpm4ecX_mean vs run
χ² / ndf 57.19 / 50
p0 5.994 ± 11.35
300
200
100
0
−100
−200
−300
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

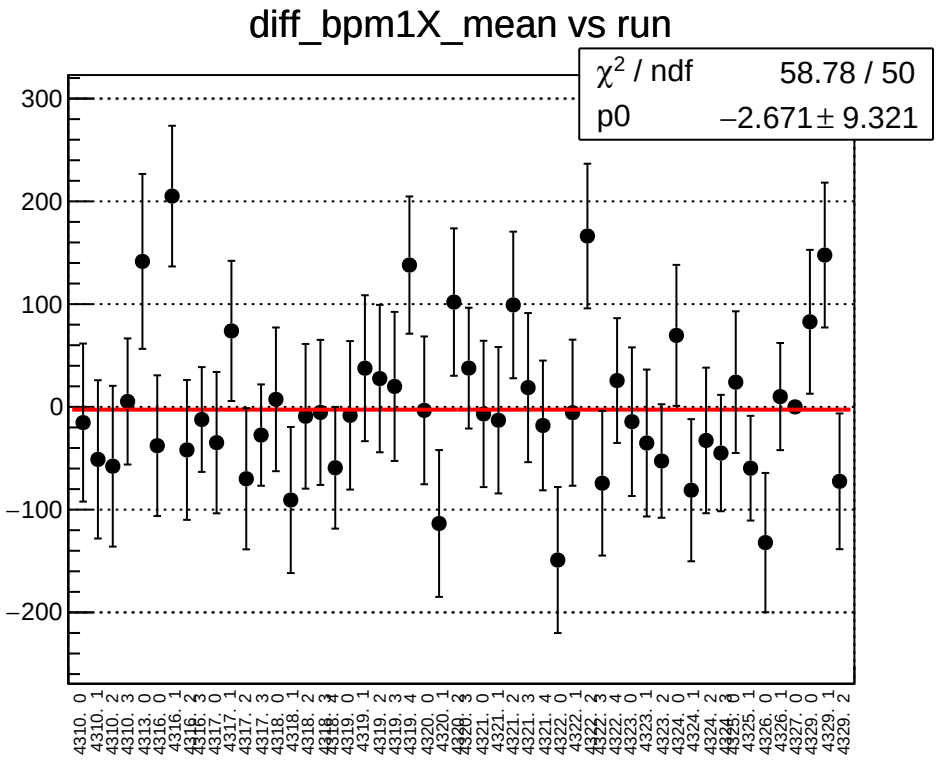

pull1D
Entries 52
Mean −0.01298
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

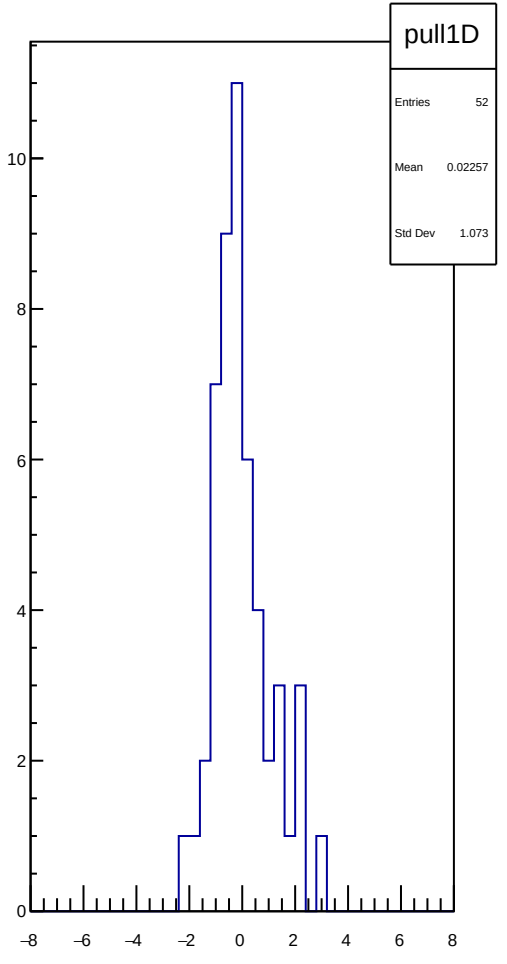

diff_bpm4ecX_rms vs run
χ² / ndf 1160 / 50
p0 8187 ± 8.026
10000
8000
6000
4000
2000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

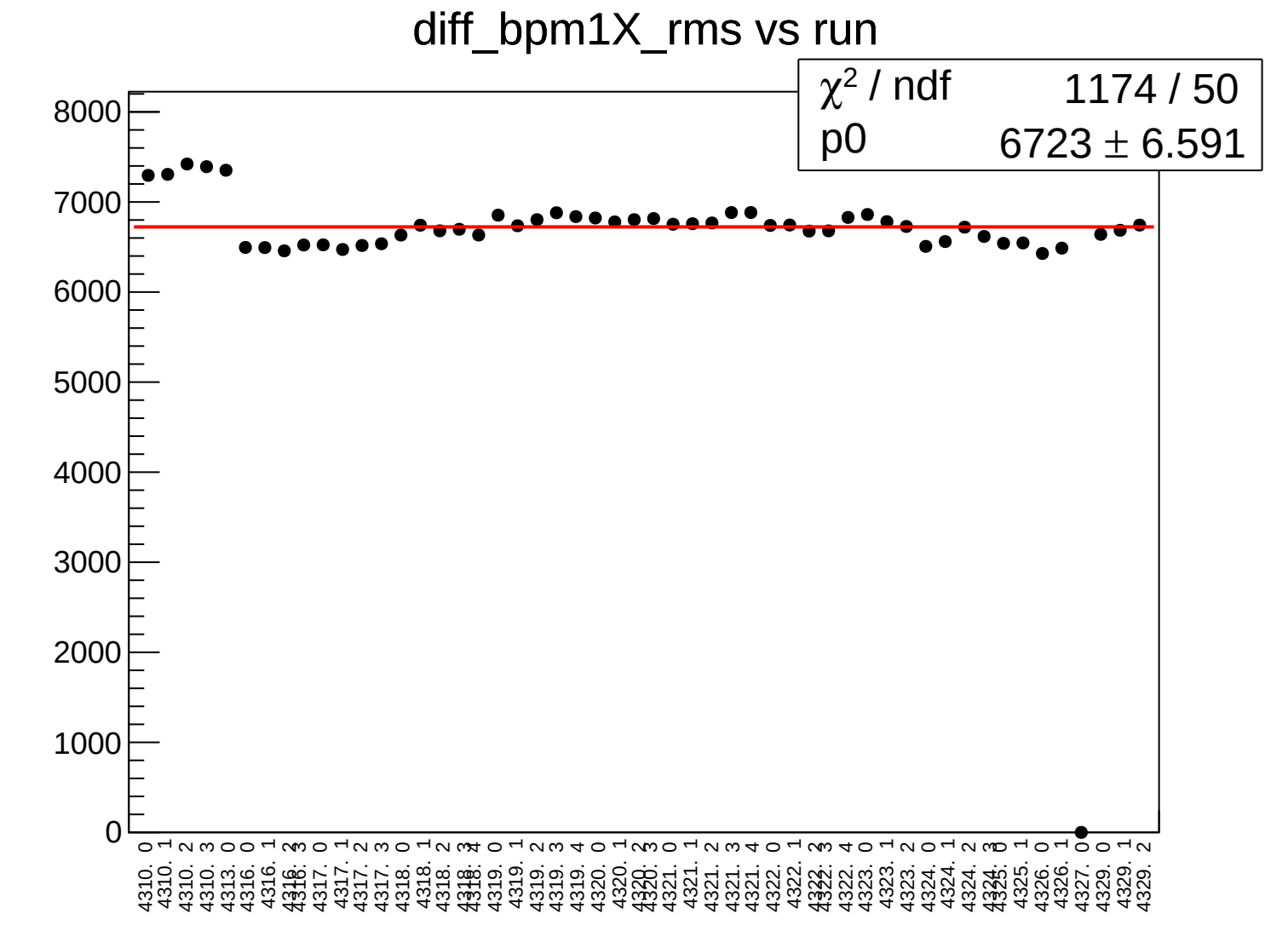

diff_bpm4ecY_mean vs run
χ² / ndf 36.61 / 50
p0 0.1669 ± 3.256
80
60
40
20
0
−20
−40
−60
−80
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

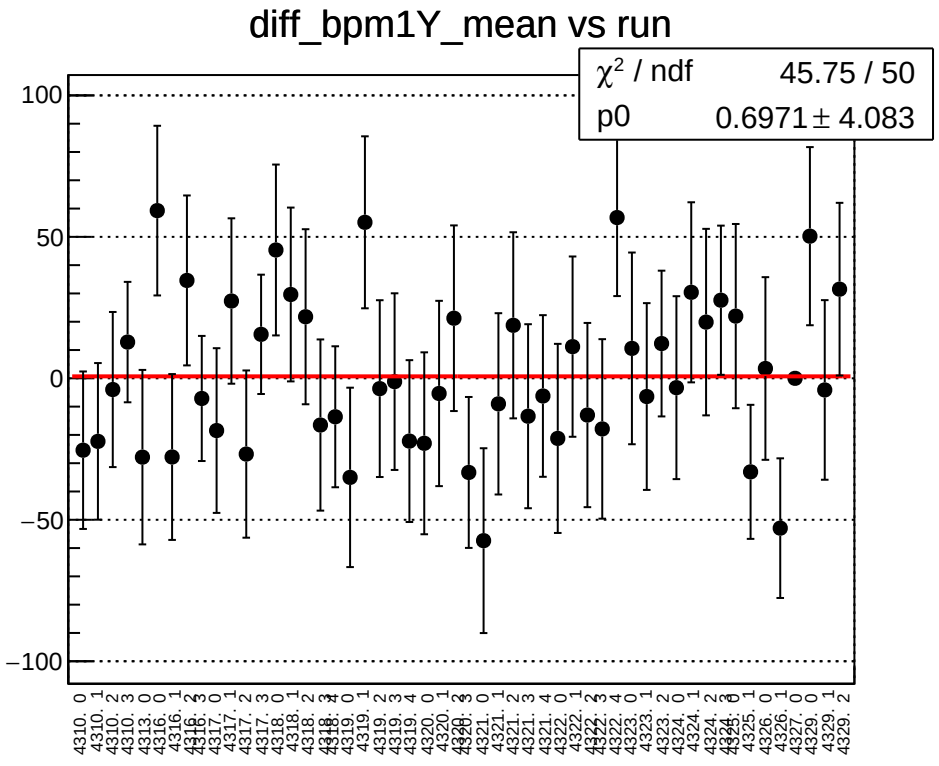

pull1D
Entries 52
Mean −0.01481
Std Dev 0.8472
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

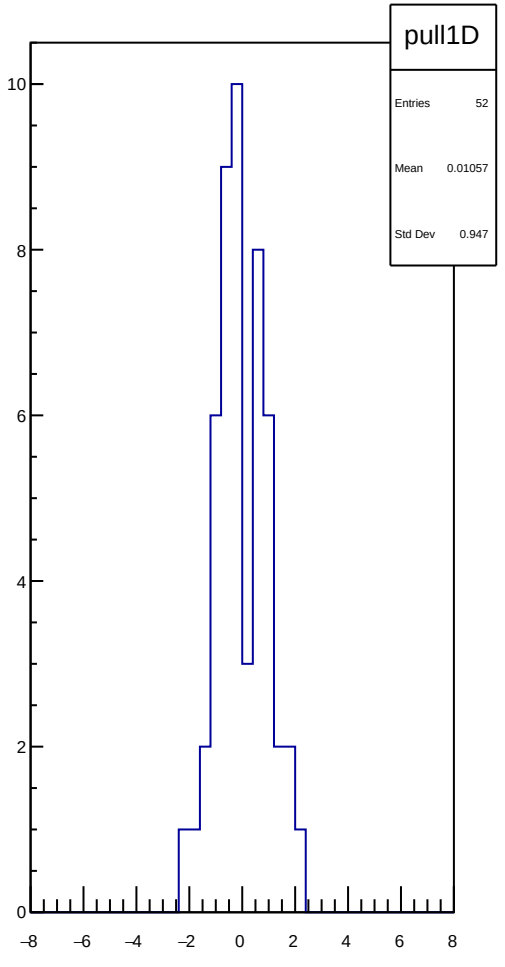

diff_bpm4ecY_rms vs run
χ² / ndf 1.251e+04 / 50
p0 2335 ± 2.302
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

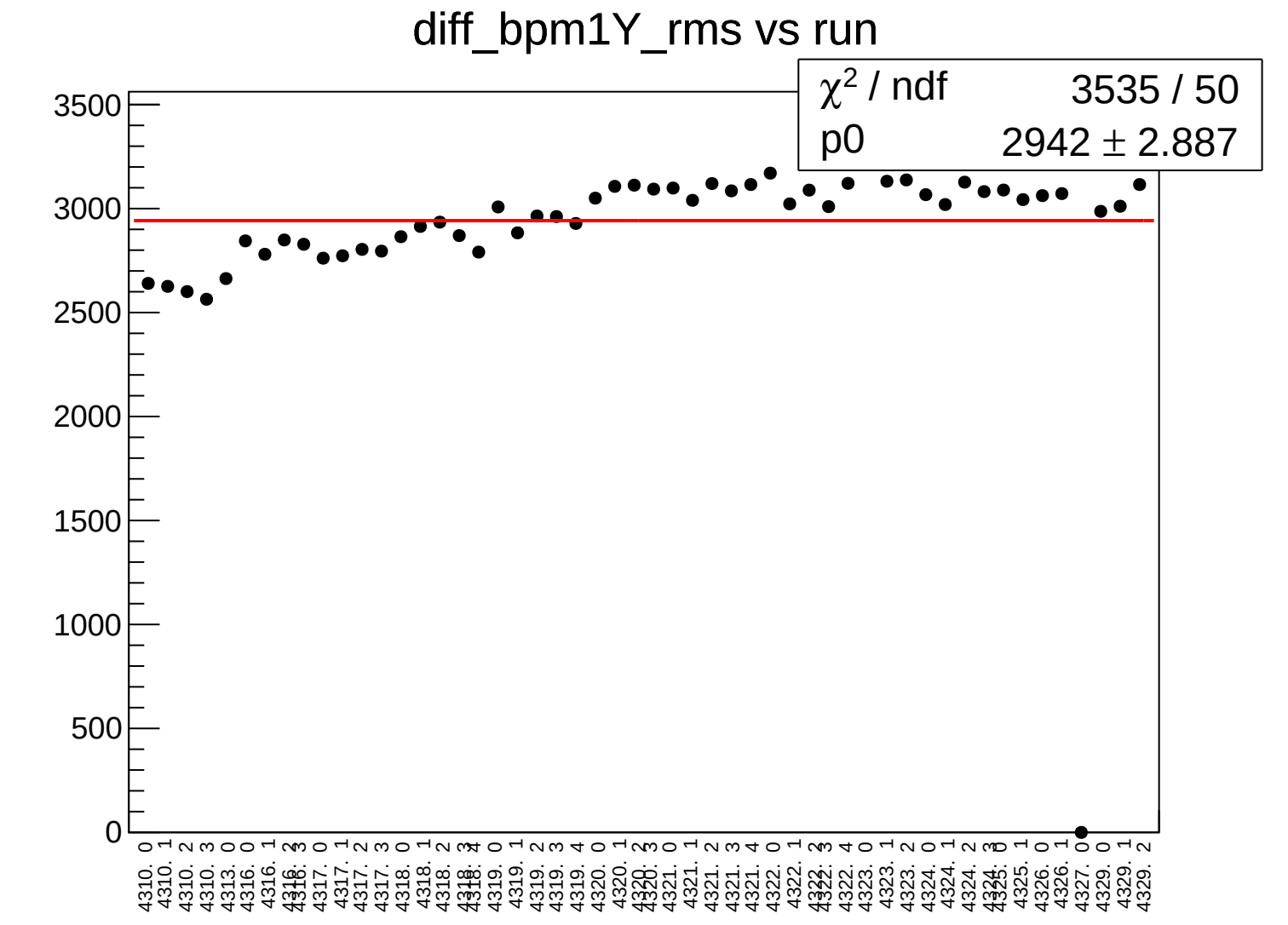

diff_bpm1X_mean vs run
χ² / ndf 58.78 / 50
p0 −2.671 ± 9.321
300
200
100
0
−100
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

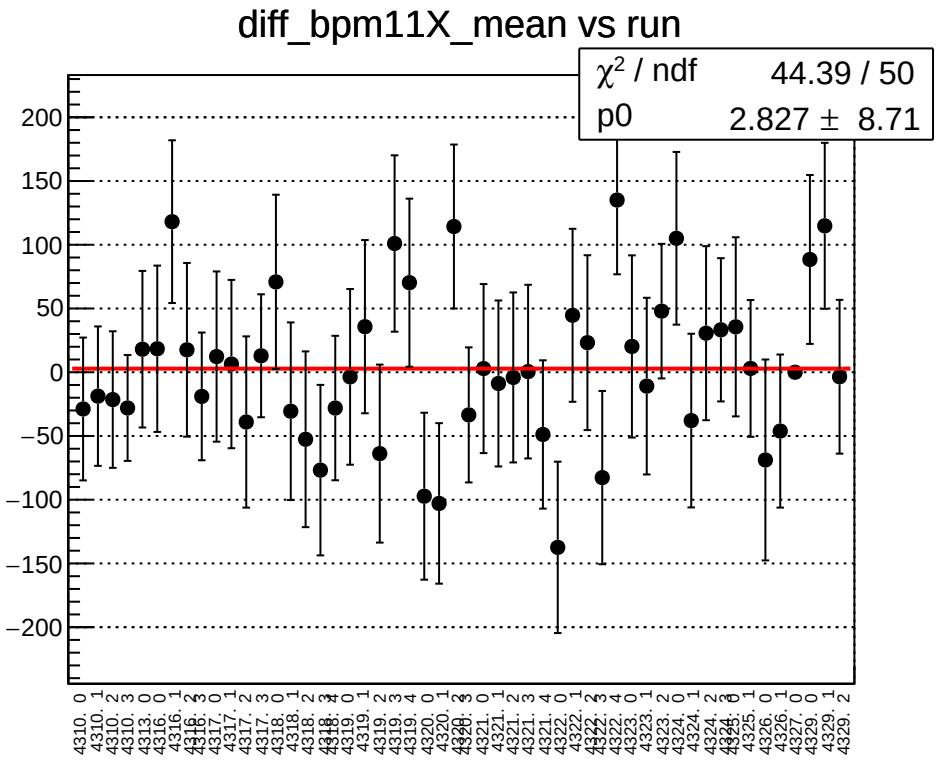

pull1D
Entries 52
Mean 0.02257
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

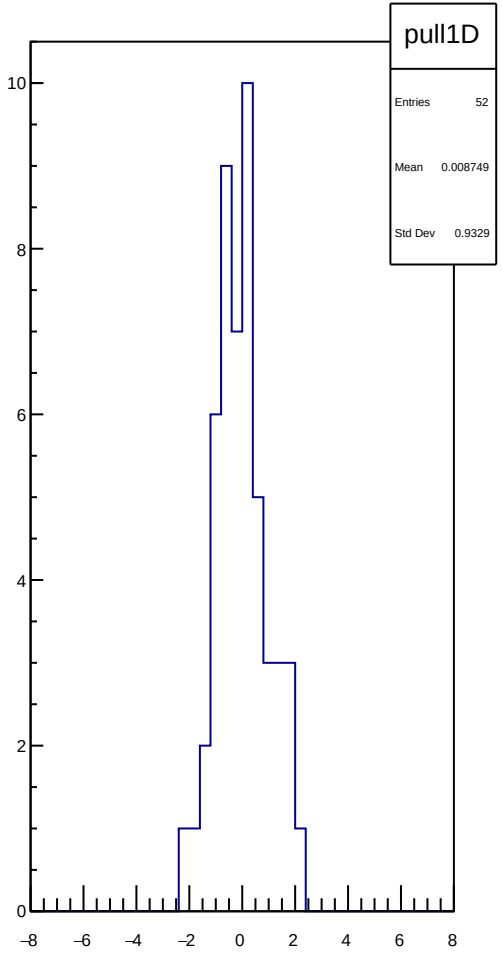

diff_bpm1X_rms vs run
χ² / ndf 1174 / 50
p0 6723 ± 6.591
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

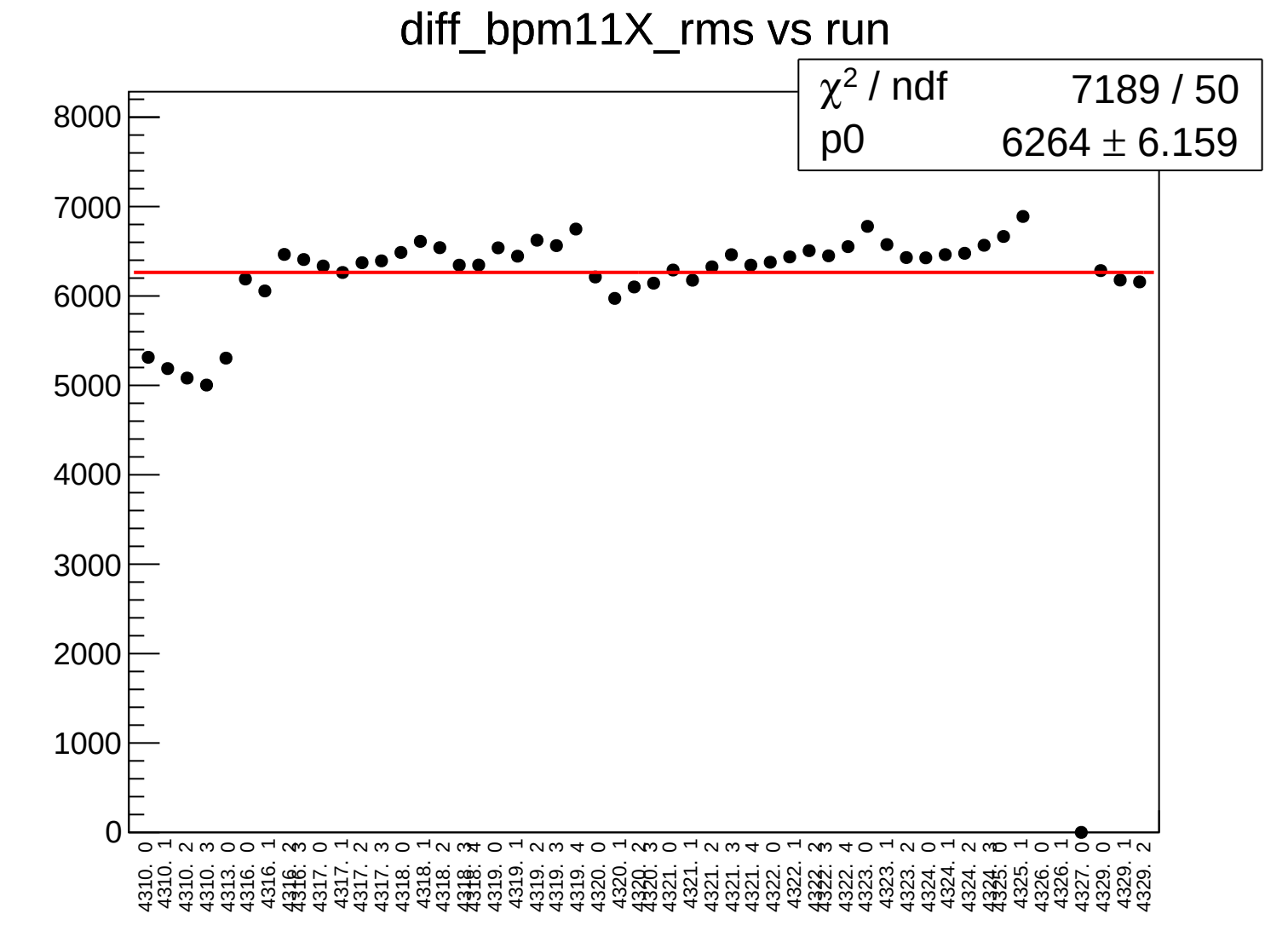

diff_bpm1Y_mean vs run
χ² / ndf 45.75 / 50
p0 0.6971 ± 4.083
100
50
0
−50
−100

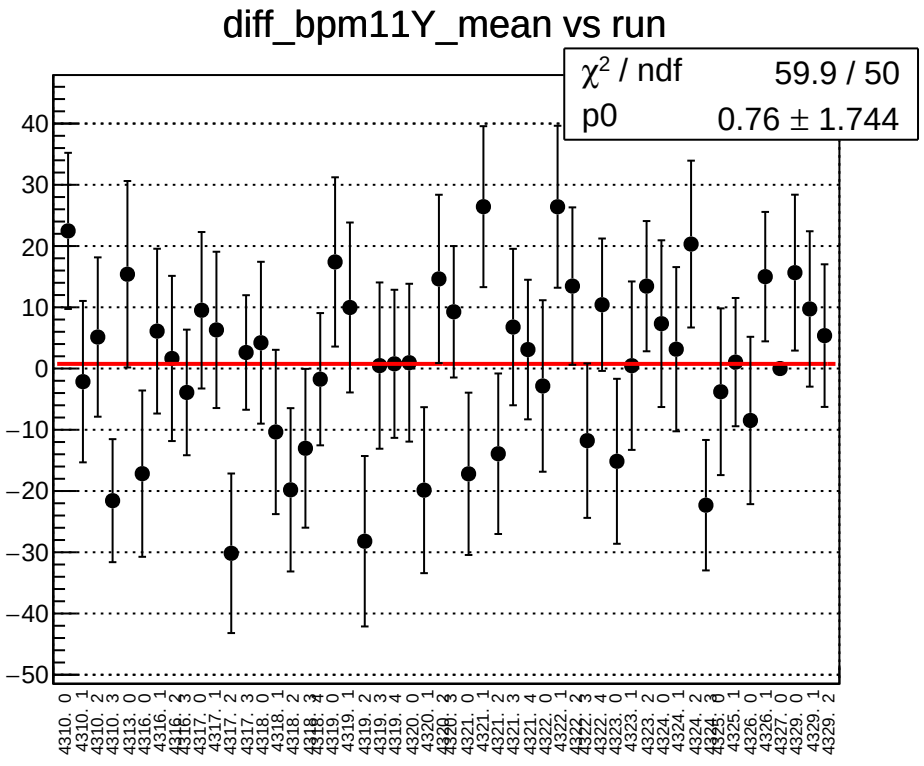

pull1D
Entries 52
Mean 0.01057
Std Dev 0.947
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

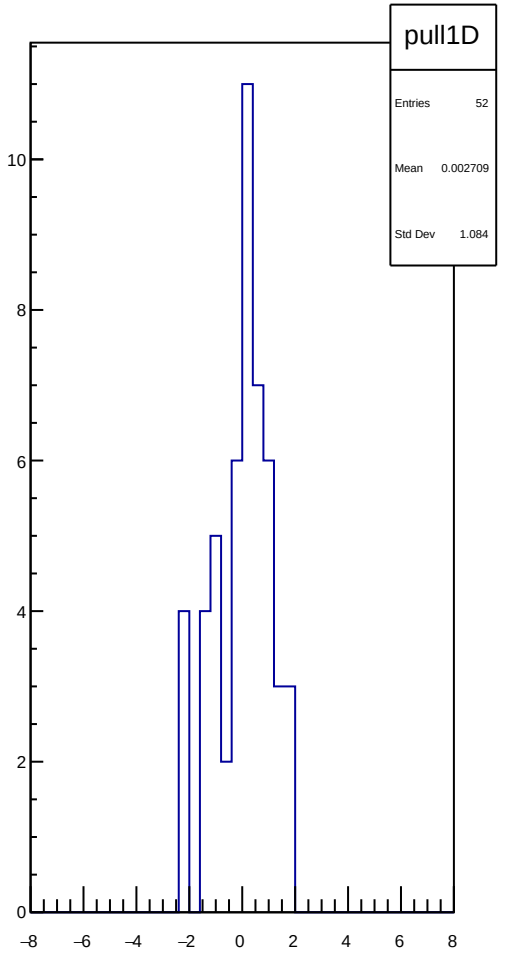

diff_bpm1Y_rms vs run
χ² / ndf 3535 / 50
p0 2942 ± 2.887
3500
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

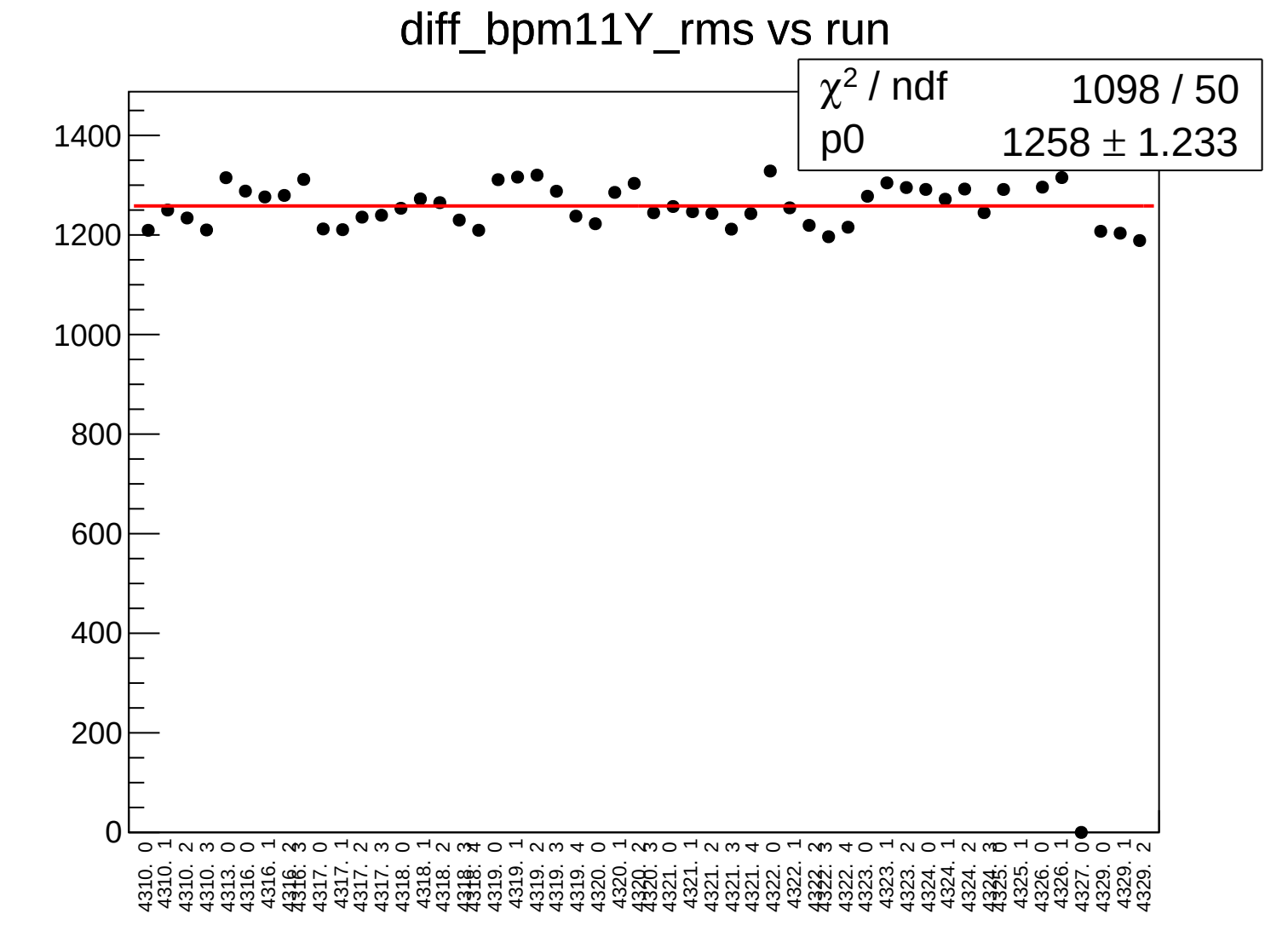

diff_bpm11X_mean vs run
χ² / ndf 44.39 / 50
p0 2.827 ± 8.71
200
150
100
50
0
−50
−100
−150
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

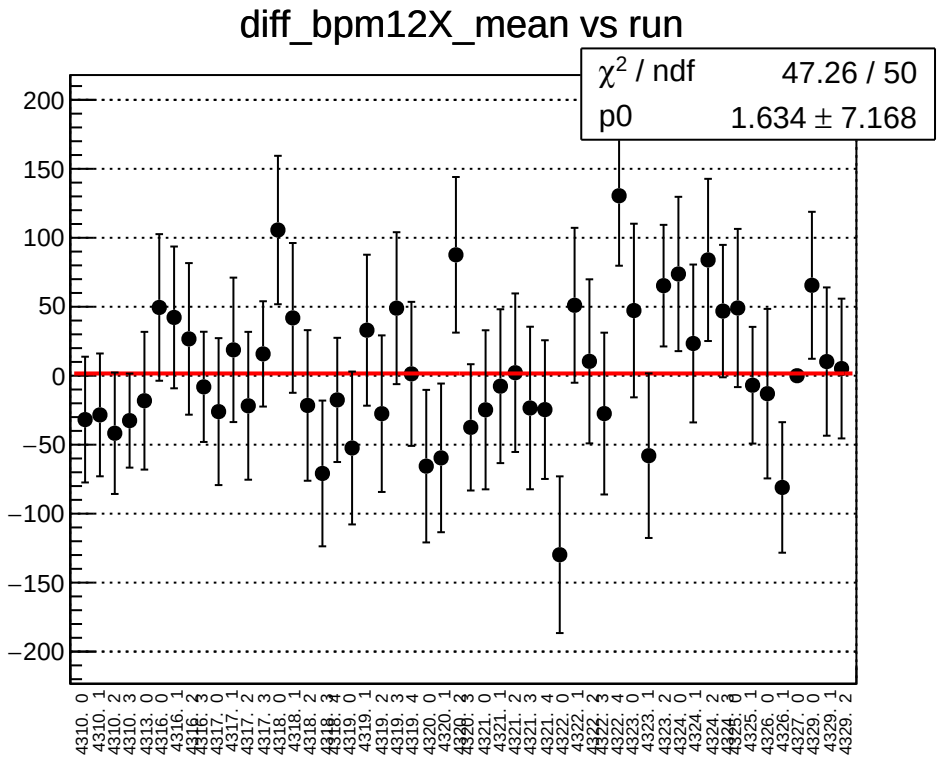

pull1D
Entries 52
Mean 0.008749
Std Dev 0.9329
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

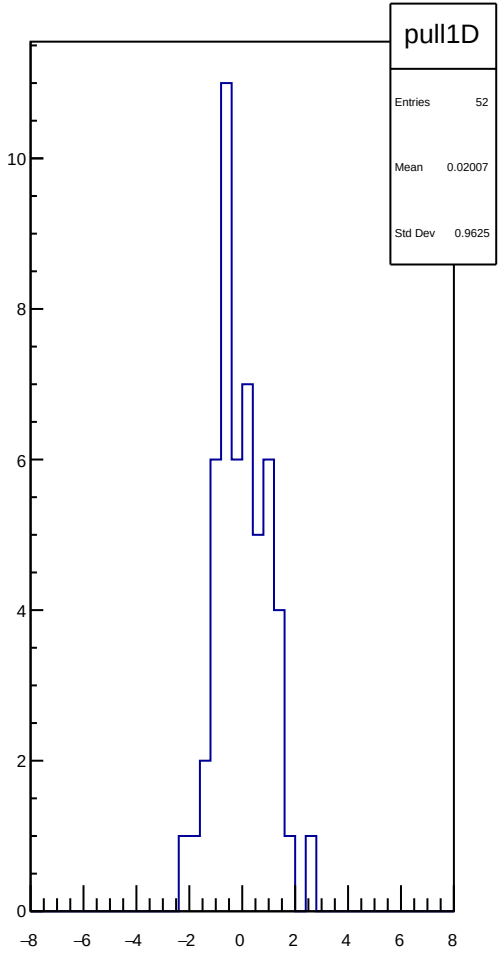

diff_bpm11X_rms vs run
χ² / ndf 7189 / 50
p0 6264 ± 6.159
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

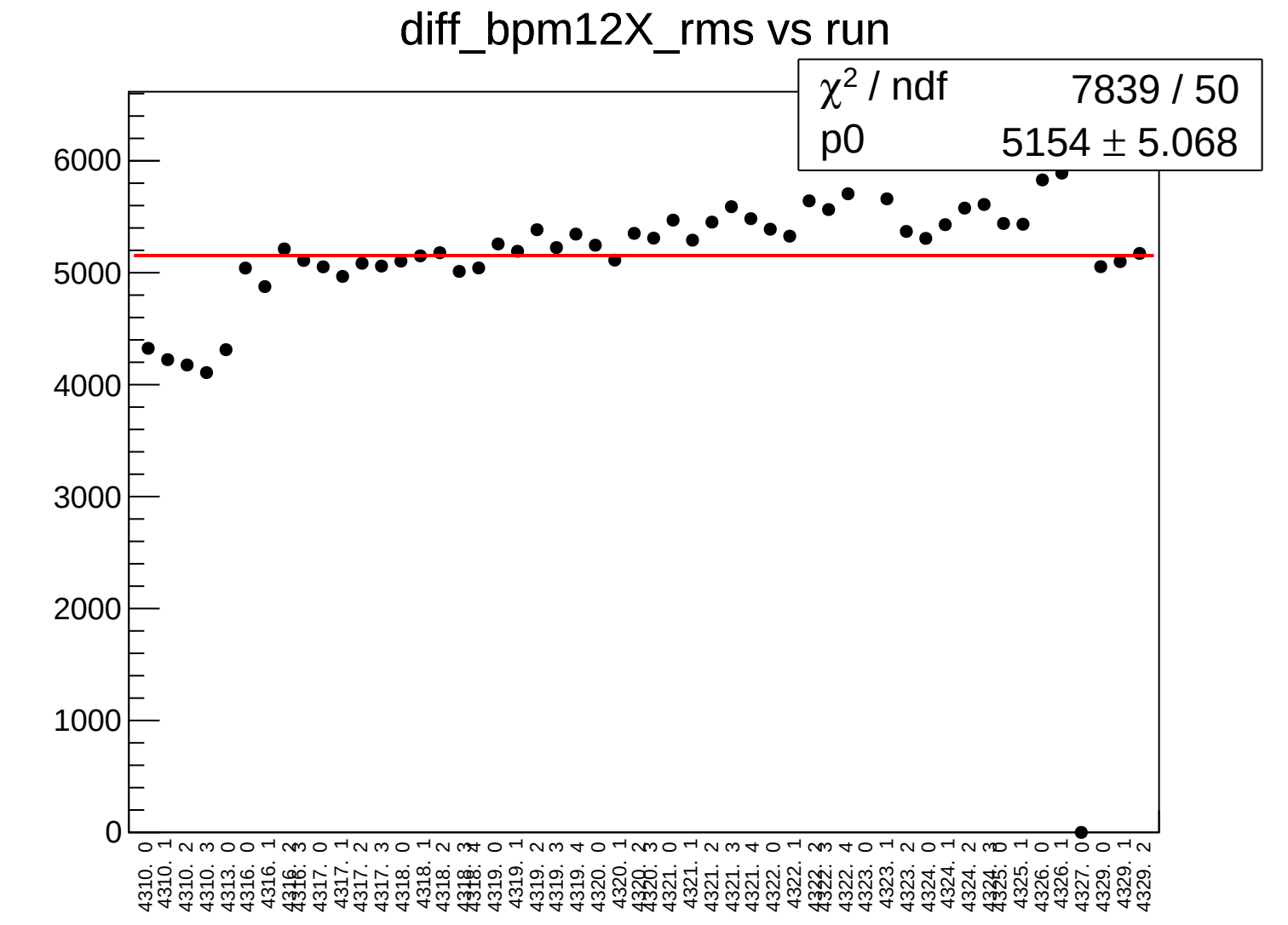

diff_bpm11Y_mean vs run
χ² / ndf 59.9 / 50
p0 0.76 ± 1.744

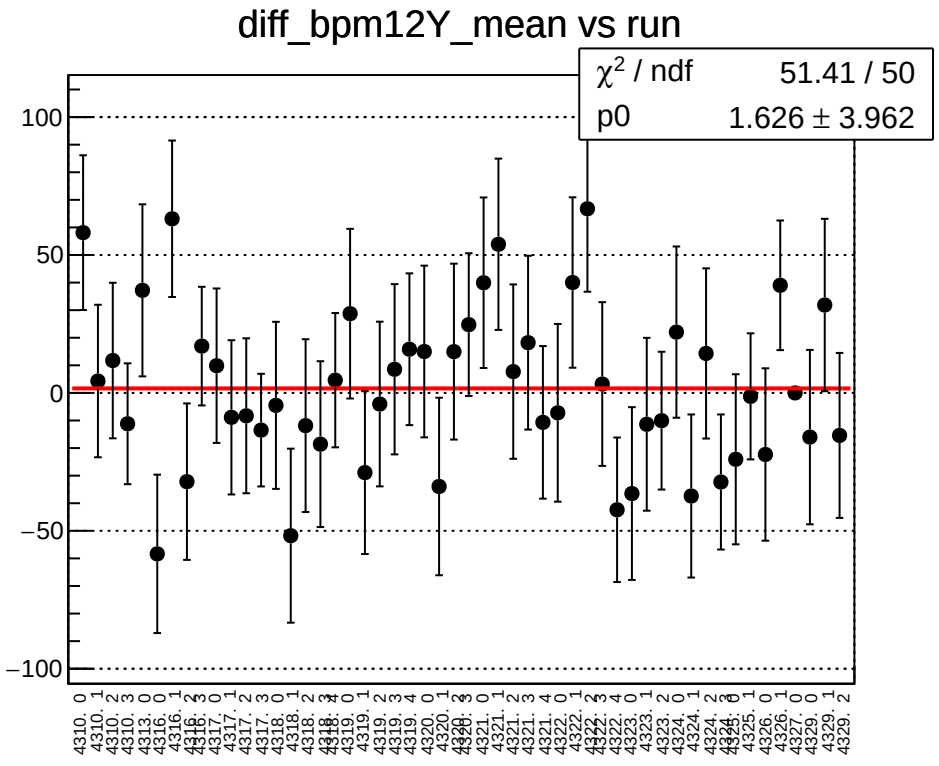

pull1D
Entries 52
Mean 0.002709
Std Dev 1.084

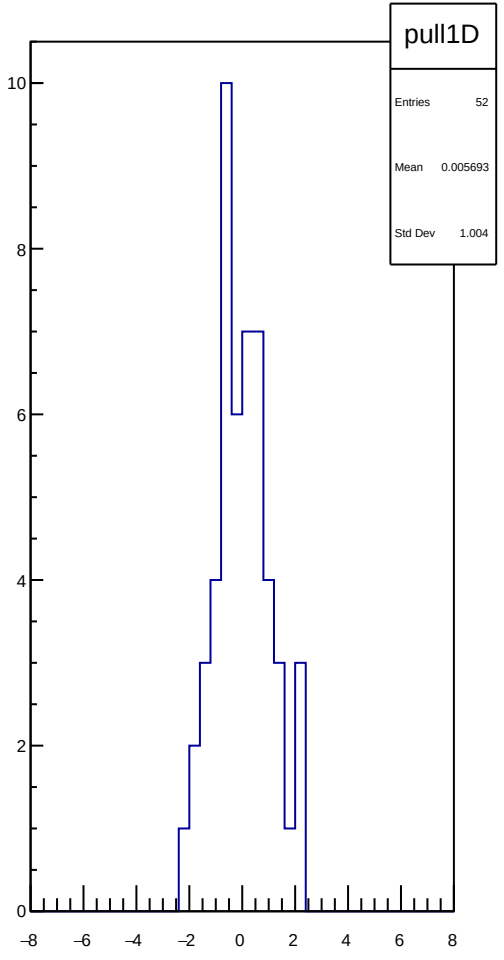

diff_bpm11Y_rms vs run
χ² / ndf 1098 / 50
p0 1258 ± 1.233
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

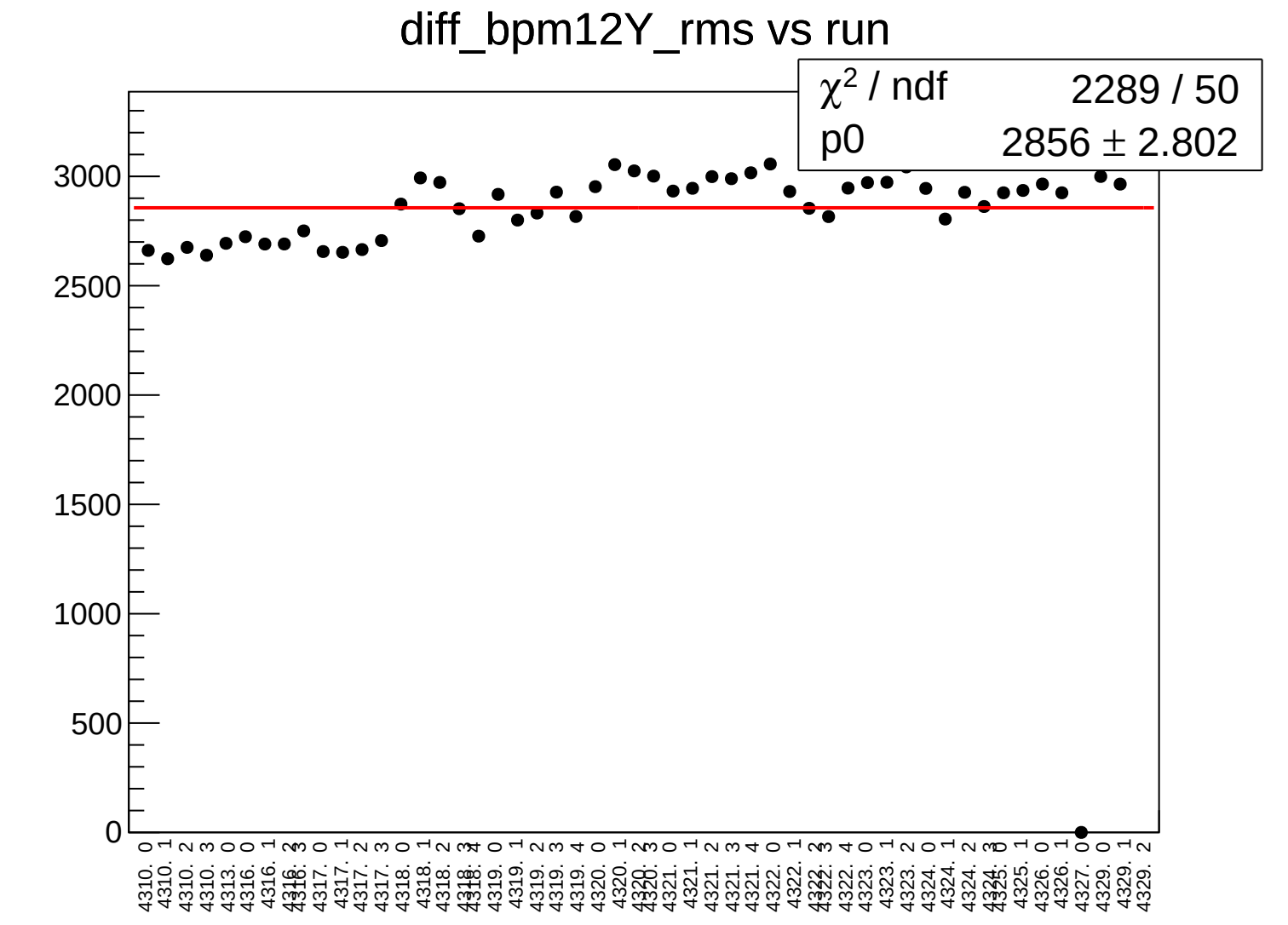

diff_bpm12X_mean vs run
χ² / ndf 47.26 / 50
p0 1.634 ± 7.168
200
150
100
50
0
−50
−100
−150
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

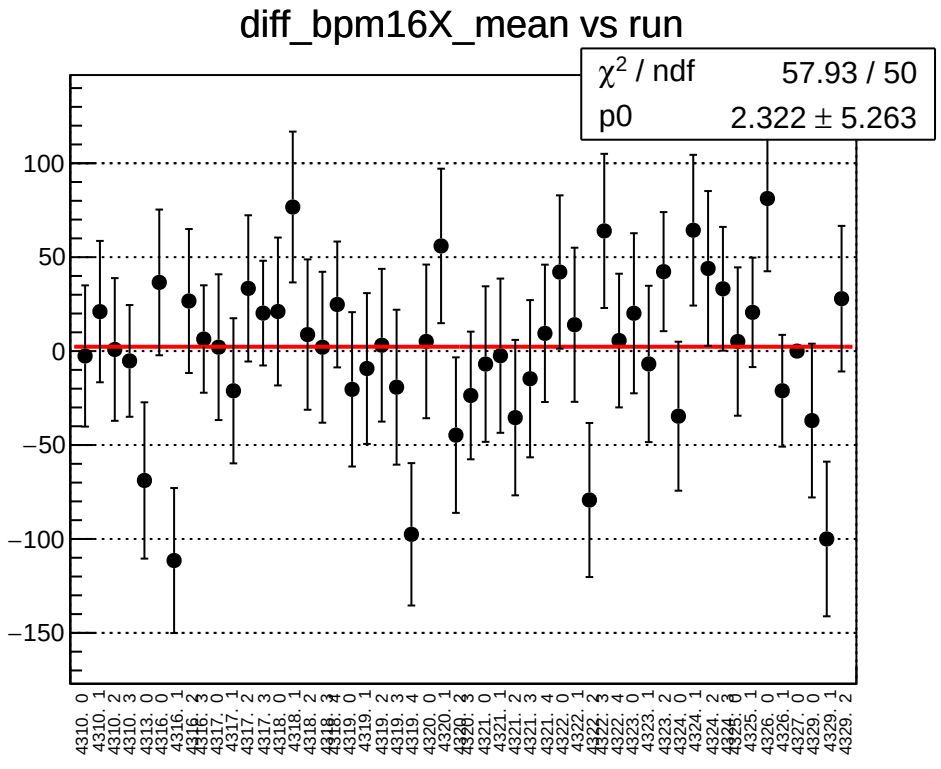

pull1D
Entries 52
Mean 0.02007
Std Dev 0.9625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

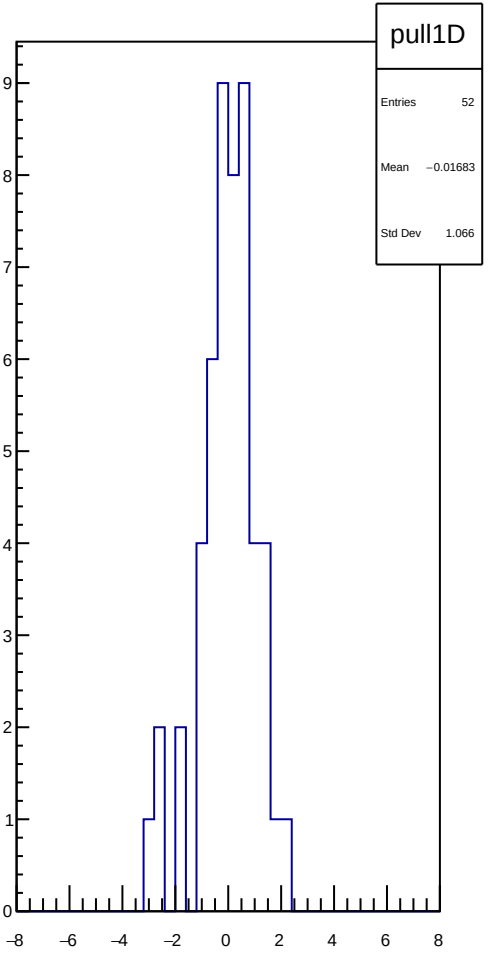

diff_bpm12X_rms vs run
χ² / ndf 7839 / 50
p0 5154 ± 5.068
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

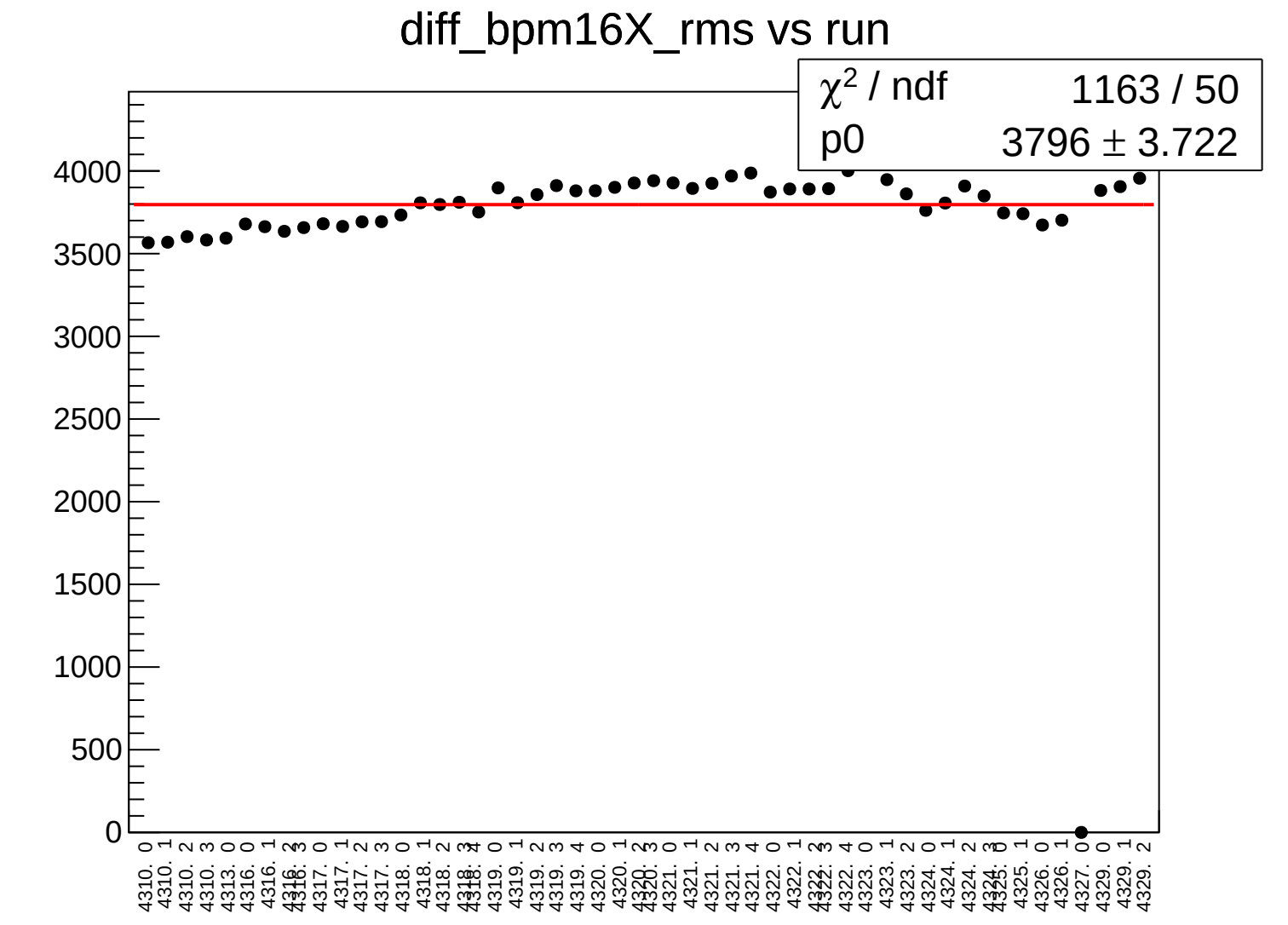

diff_bpm12Y_mean vs run
χ² / ndf 51.41 / 50
p0 1.626 ± 3.962
100
50
0
−50
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

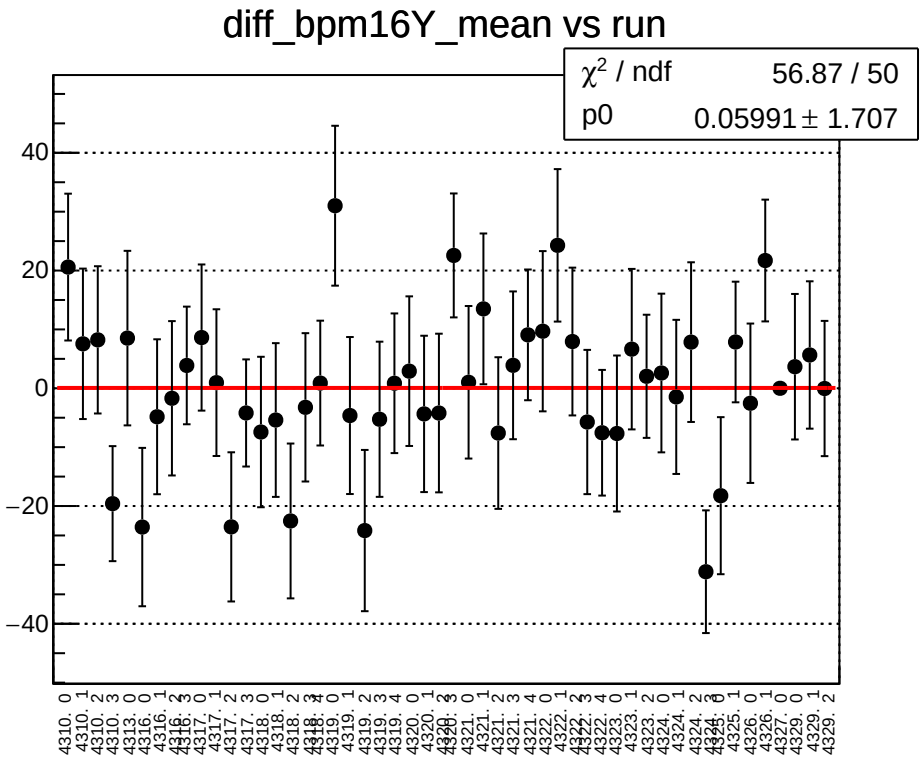

pull1D
Entries 52
Mean 0.005693
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

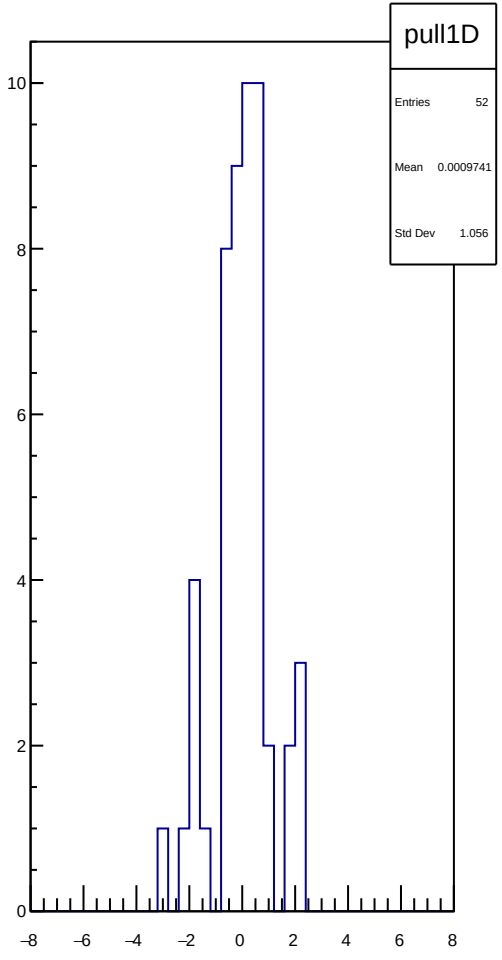

diff_bpm12Y_rms vs run
χ² / ndf 2289 / 50
p0 2856 ± 2.802
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

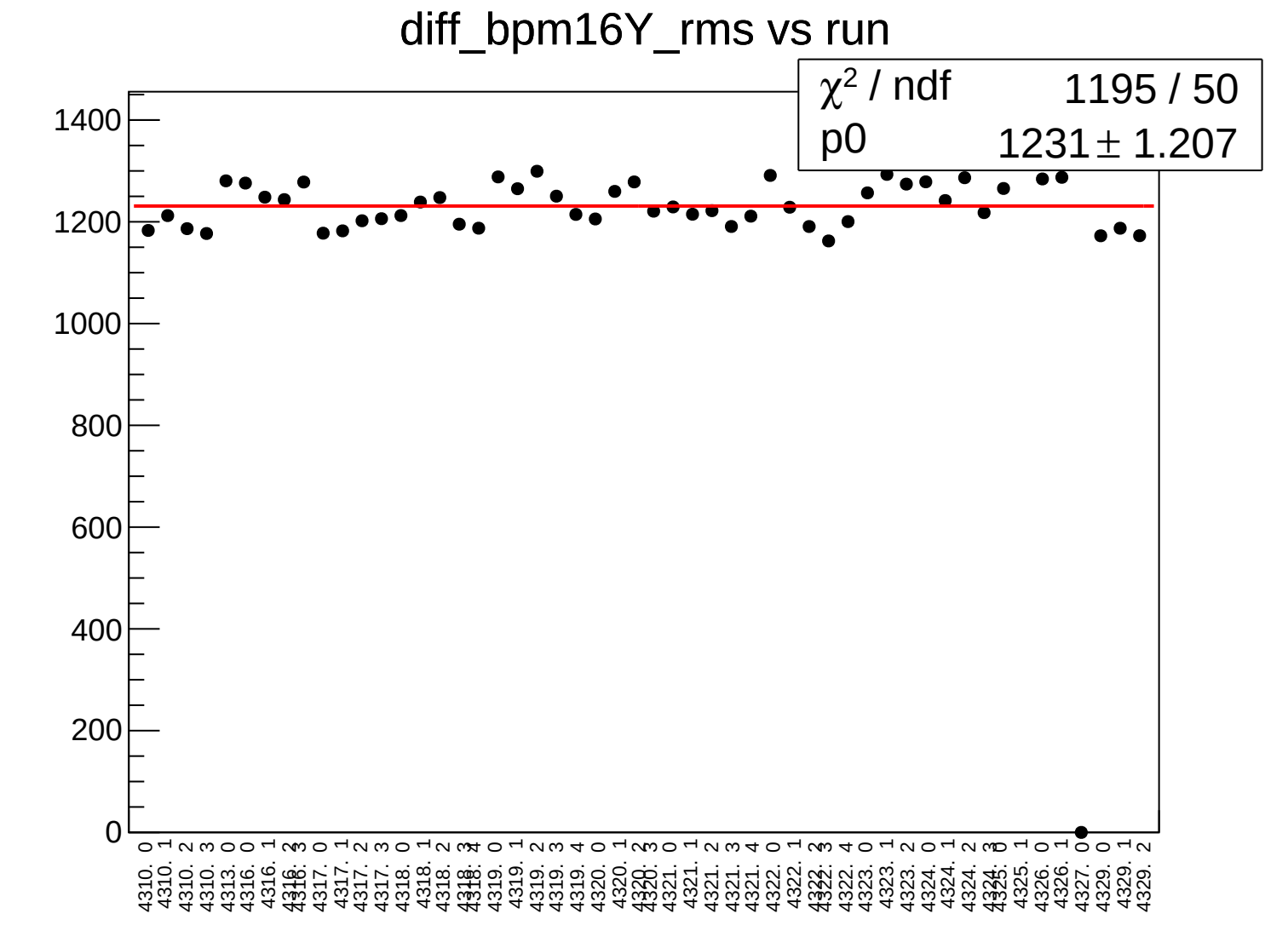

diff_bpm16X_mean vs run
χ² / ndf 57.93 / 50
p0 2.322 ± 5.263
100
50
0
−50
−100
−150
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

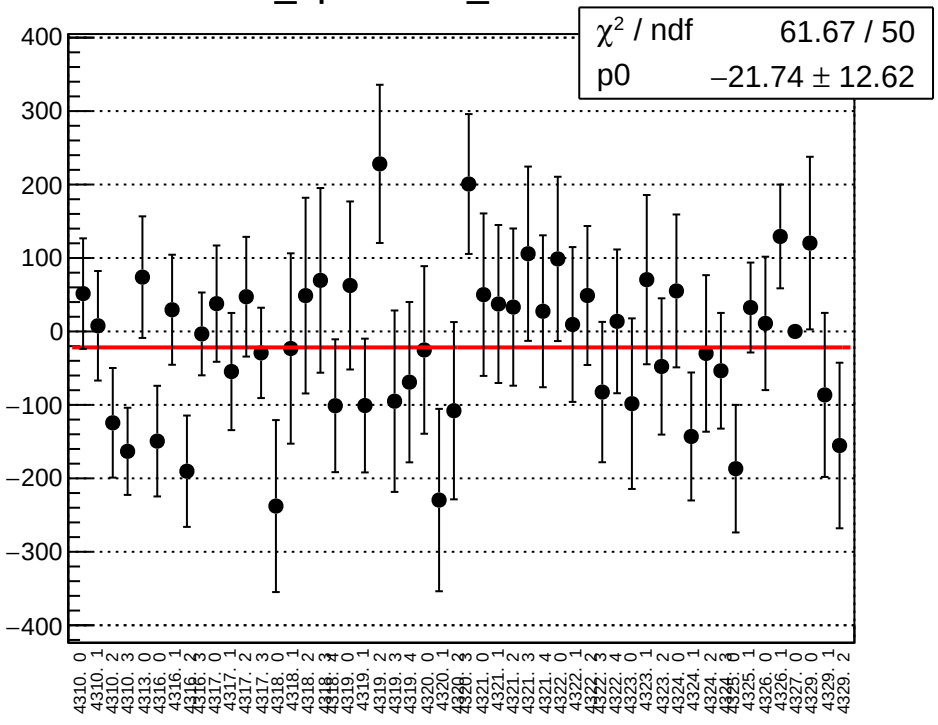

pull1D
Entries 52
Mean −0.01683
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

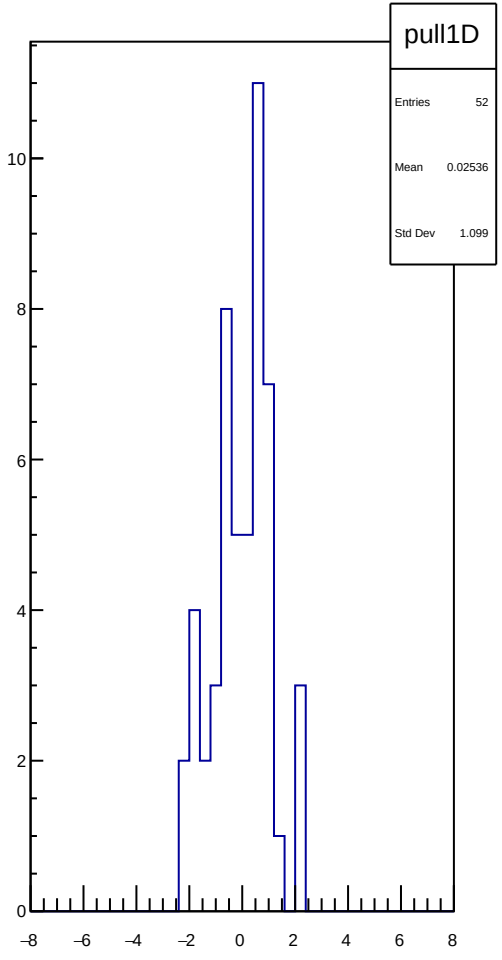

diff_bpm16X_rms vs run
χ² / ndf 1163 / 50
p0 3796 ± 3.722
4000
3500
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

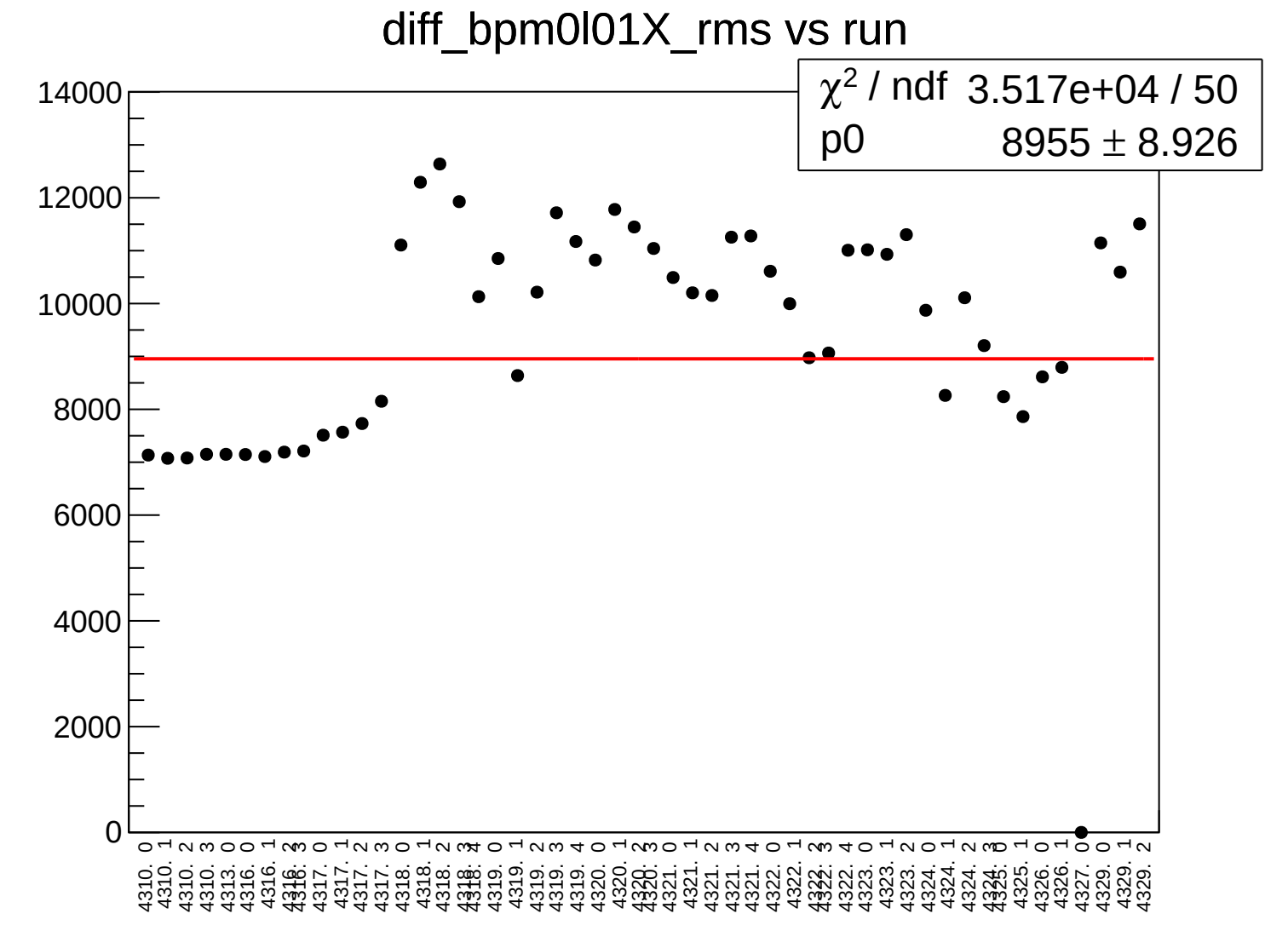

diff_bpm16Y_mean vs run
χ² / ndf 56.87 / 50
p0 0.05991 ± 1.707
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

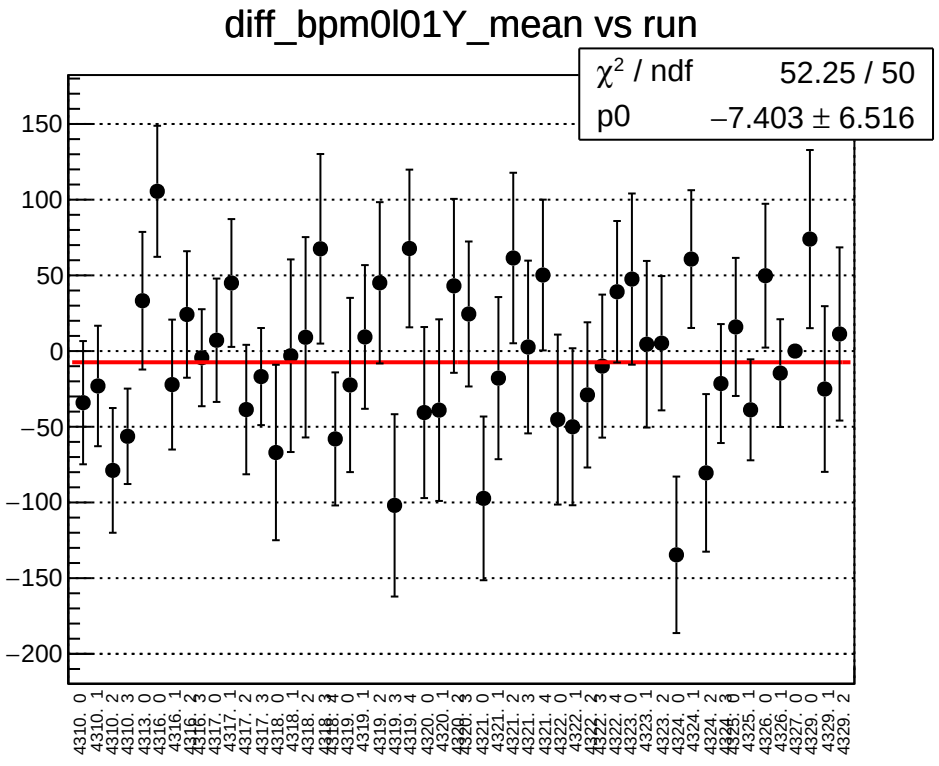

pull1D
Entries 52
Mean 0.0009741
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

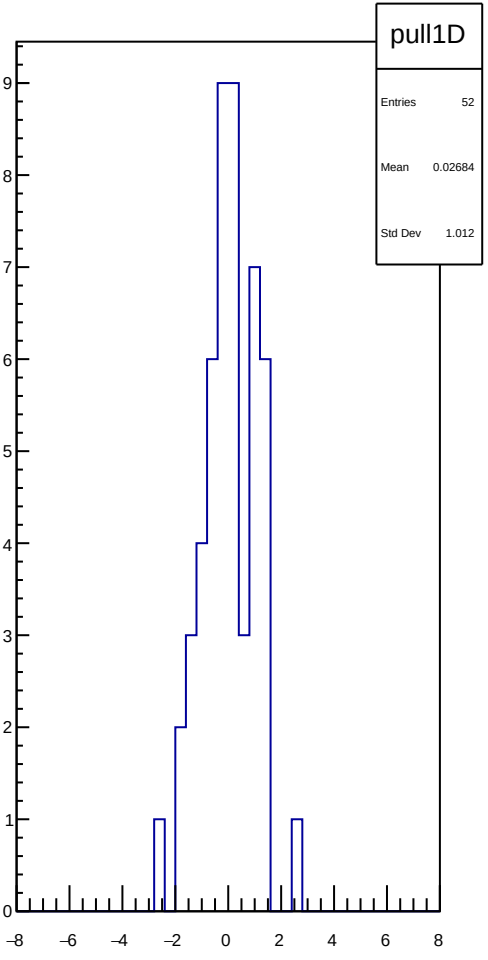

diff_bpm16Y_rms vs run
χ² / ndf 1195 / 50
p0 1231 ± 1.207
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

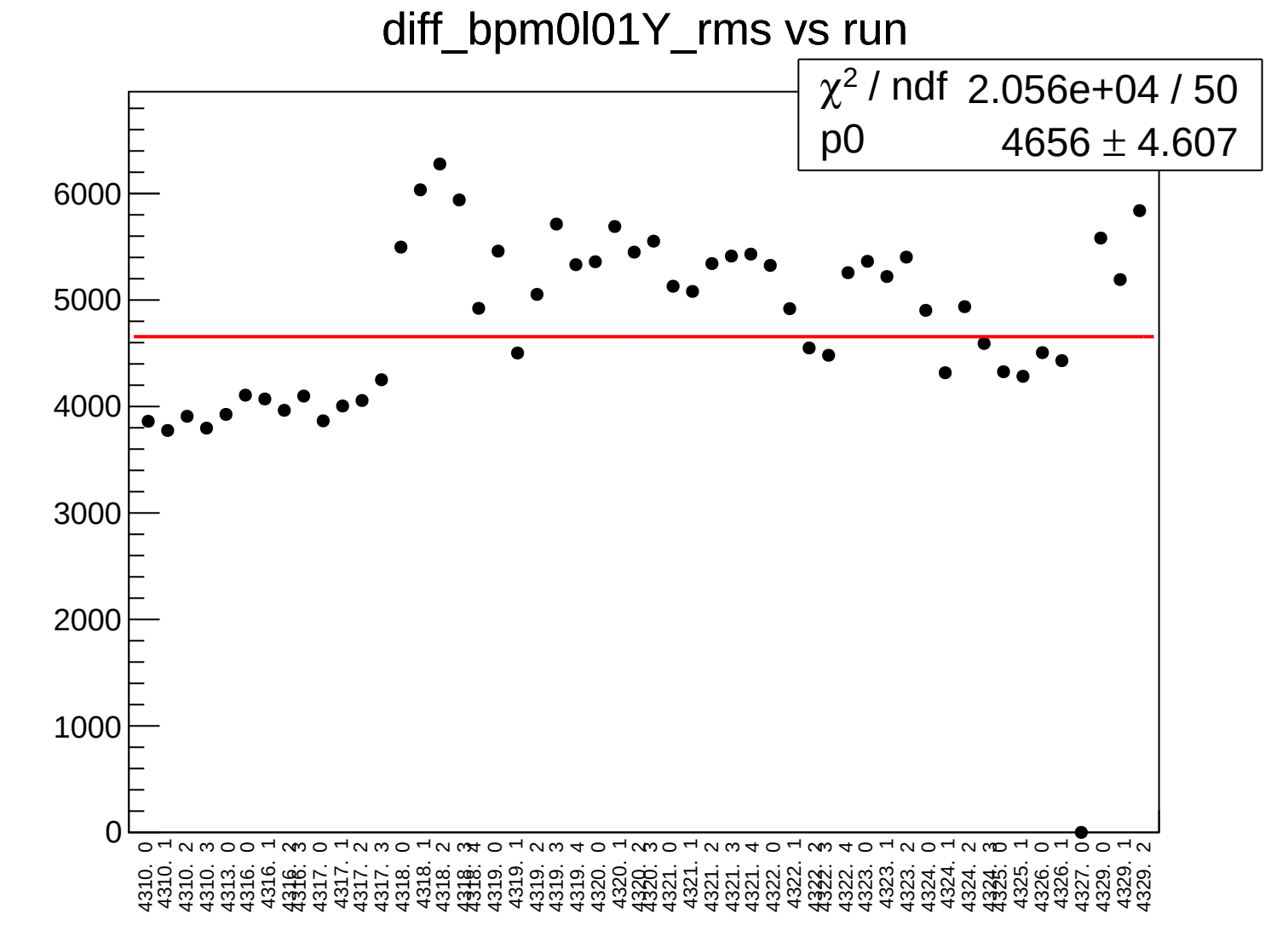

diff_bpm0l01X_mean vs run
χ² / ndf 61.67 / 50
p0 −21.74 ± 12.62
400
300
200
100
0
−100
−200
−300
−400

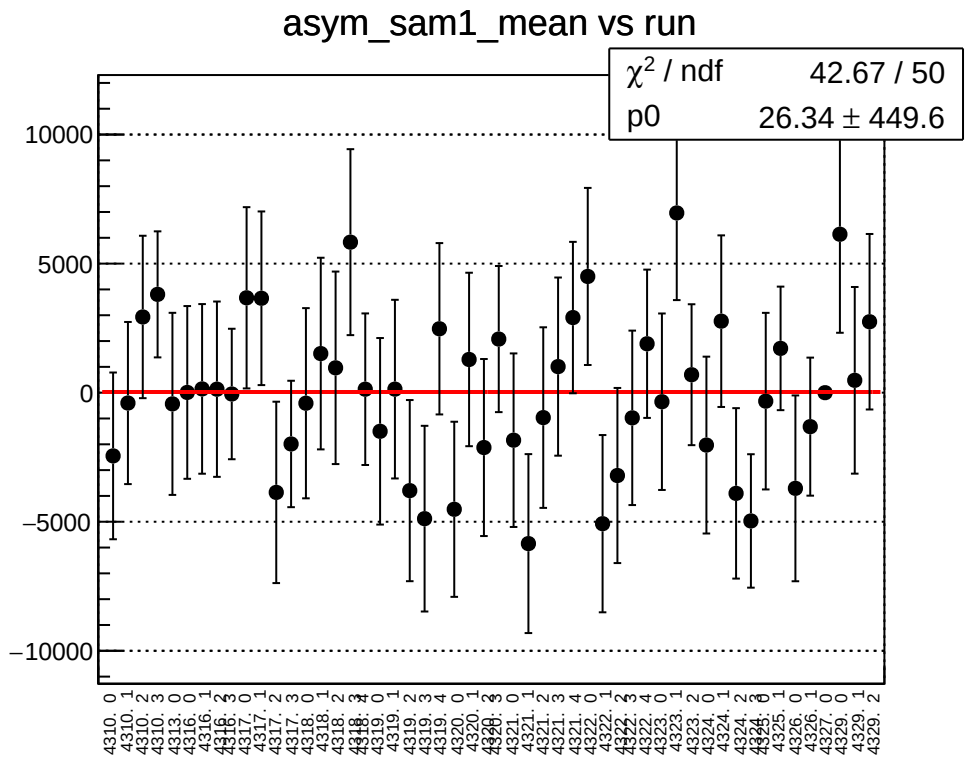

pull1D
Entries 52
Mean 0.02536
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

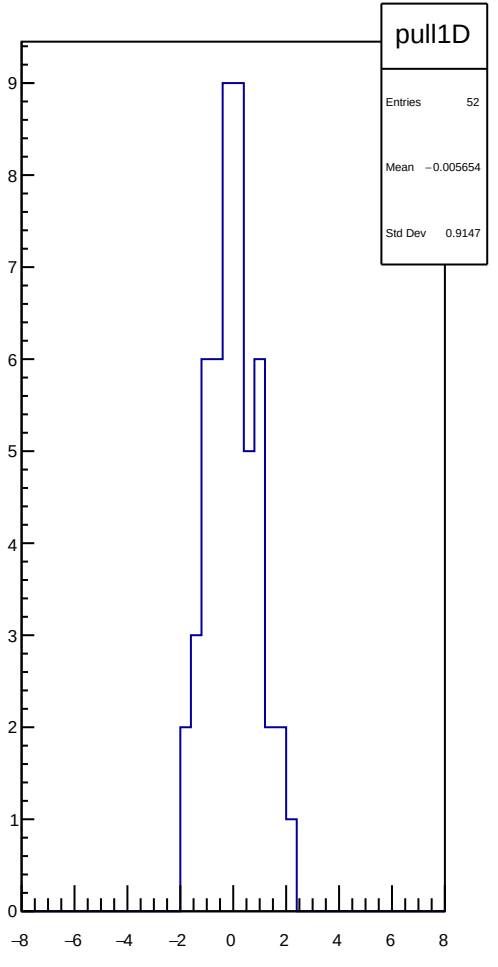

diff_bpm0l01X_rms vs run
χ² / ndf 3.517e+04 / 50
p0 8955 ± 8.926
14000
12000
10000
8000
6000
4000
2000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

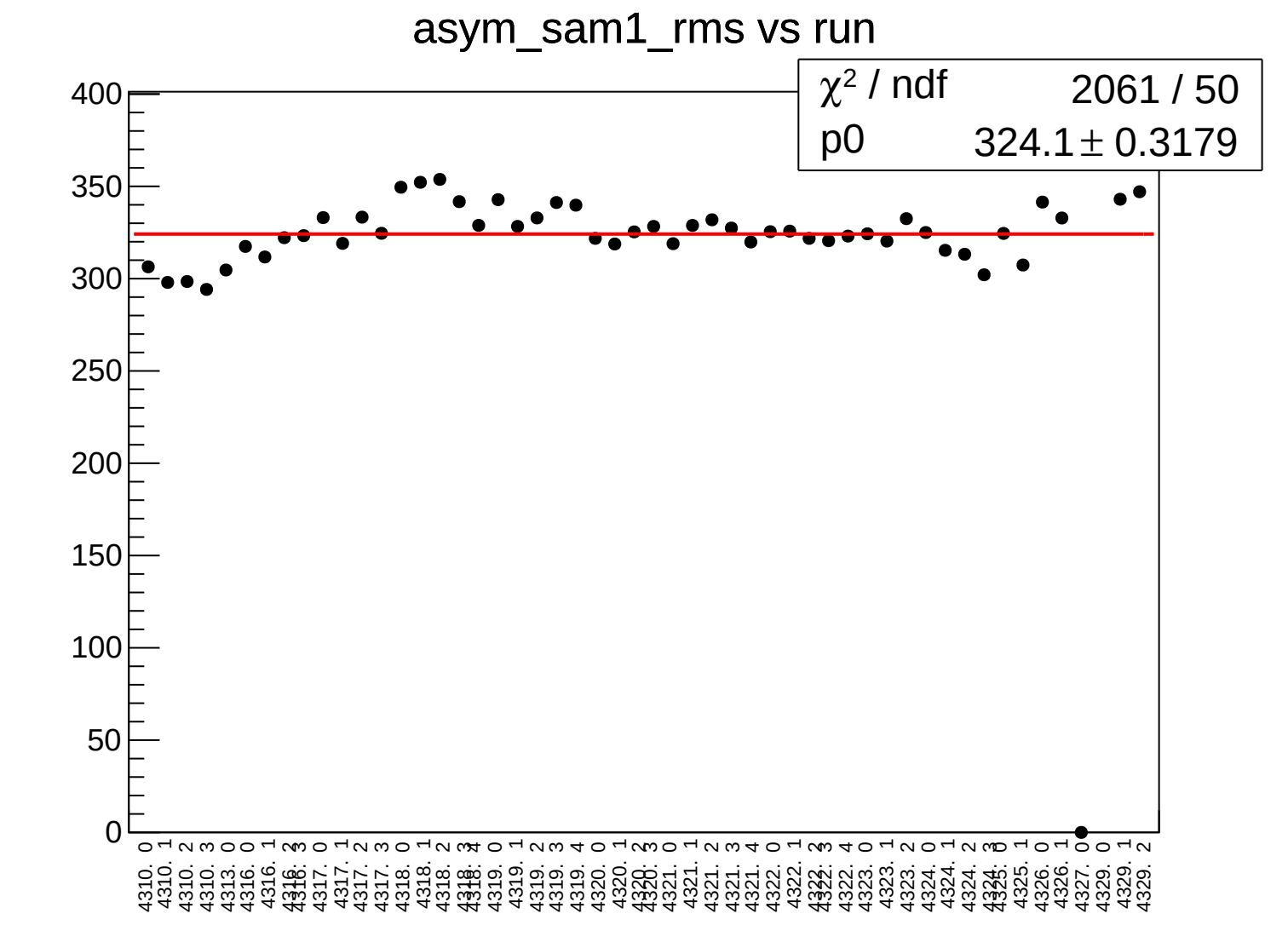

diff_bpm0l01Y_mean vs run
χ² / ndf 52.25 / 50
p0 −7.403 ± 6.516
150
100
50
0
−50
−100
−150
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

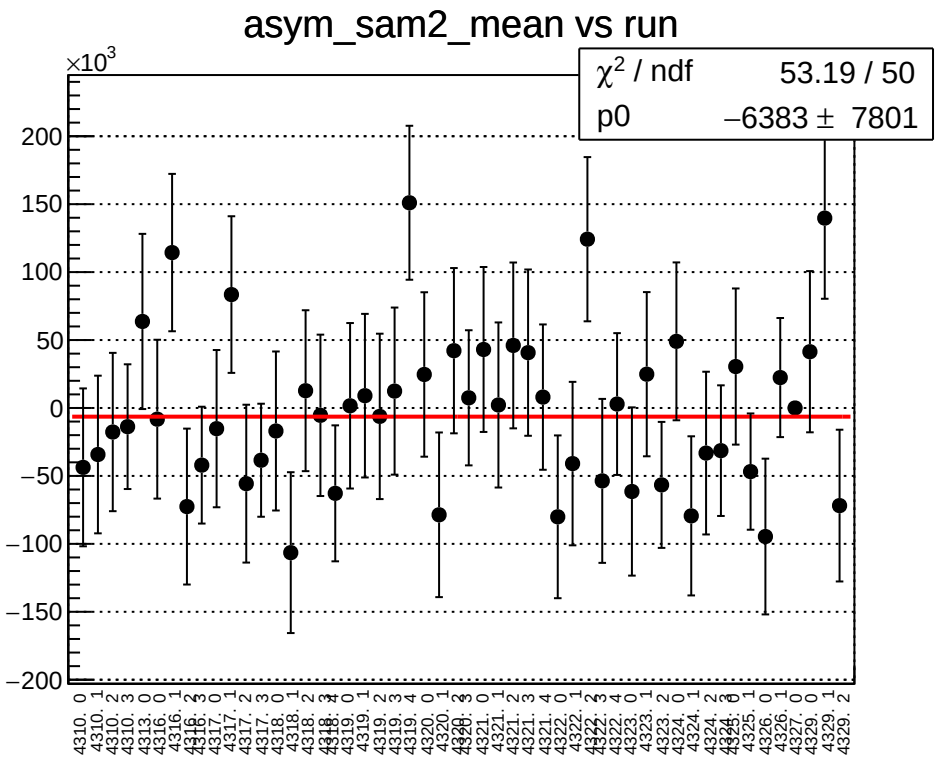

pull1D
Entries 52
Mean 0.02684
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

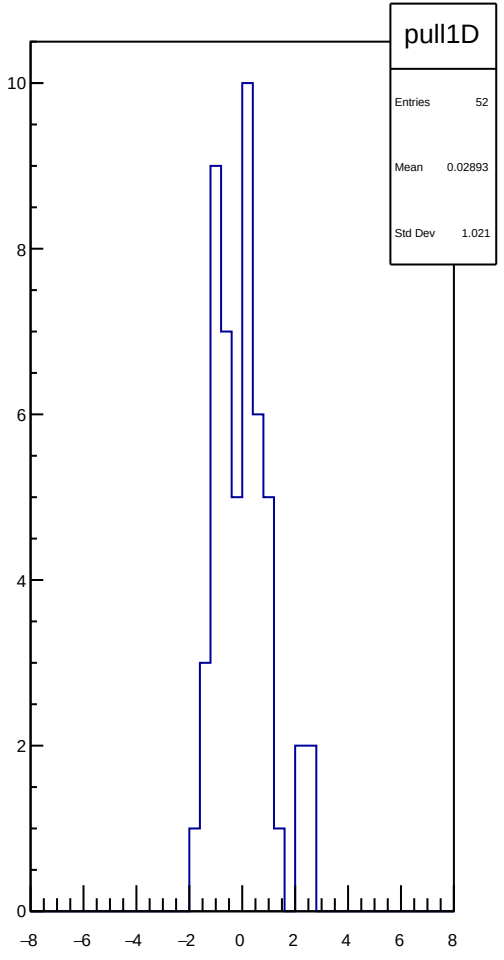

diff_bpm0l01Y_rms vs run
χ² / ndf 2.056e+04 / 50
p0 4656 ± 4.607
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

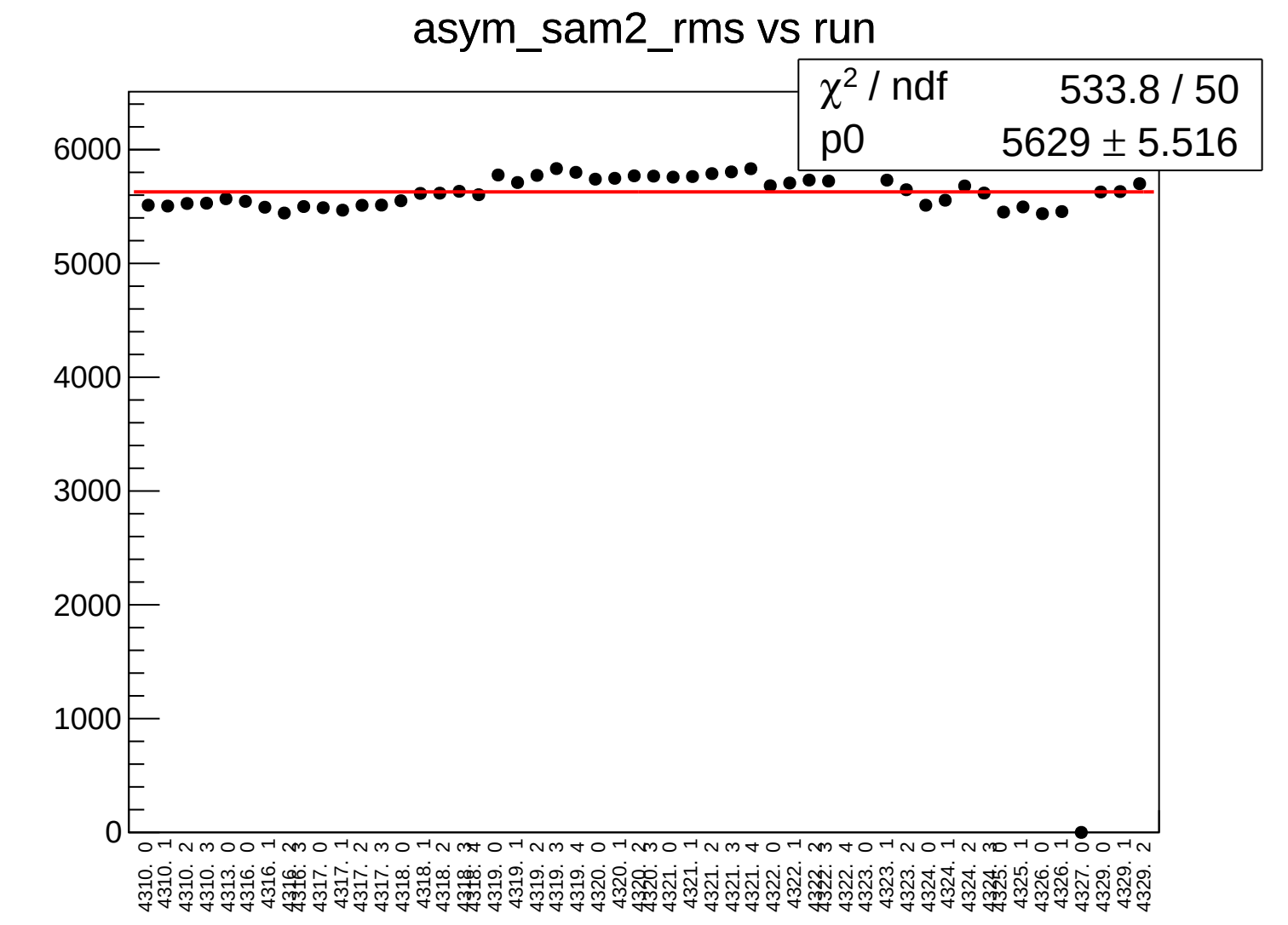

asym_sam1_mean vs run
χ² / ndf 42.67 / 50
p0 26.34 ± 449.6
10000
5000
0
−5000
−10000

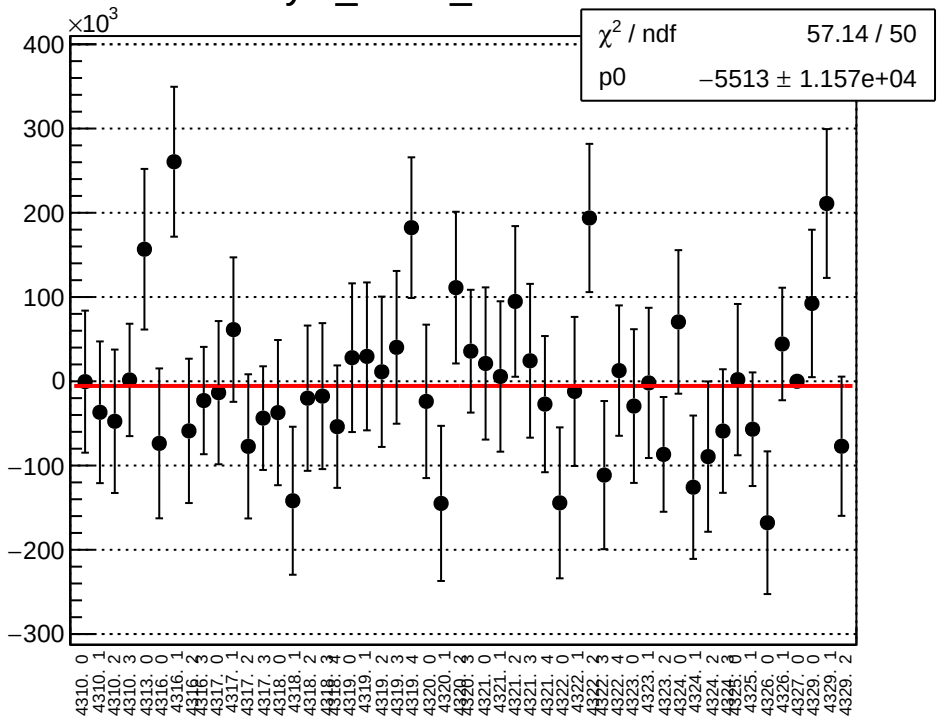

pull1D
Entries 52
Mean −0.005654
Std Dev 0.9147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

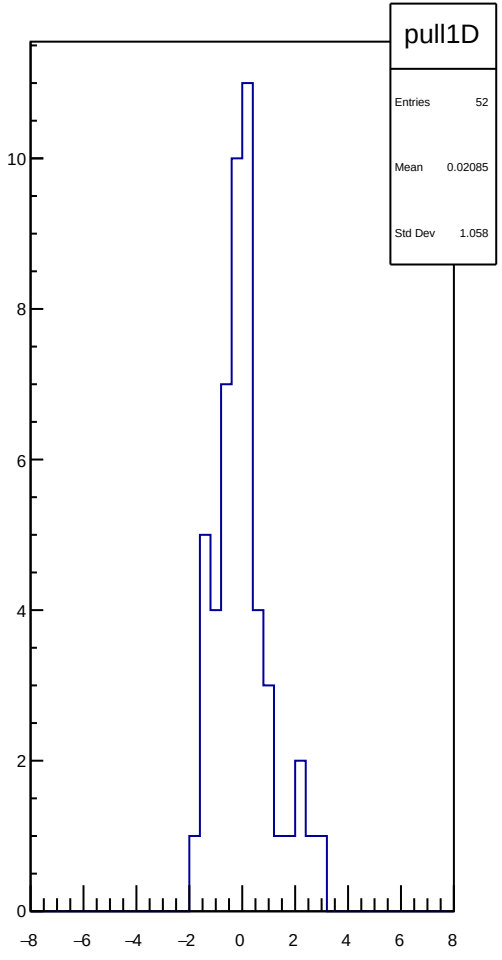

asym_sam1_rms vs run
χ² / ndf 2061 / 50
p0 324.1 ± 0.3179
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

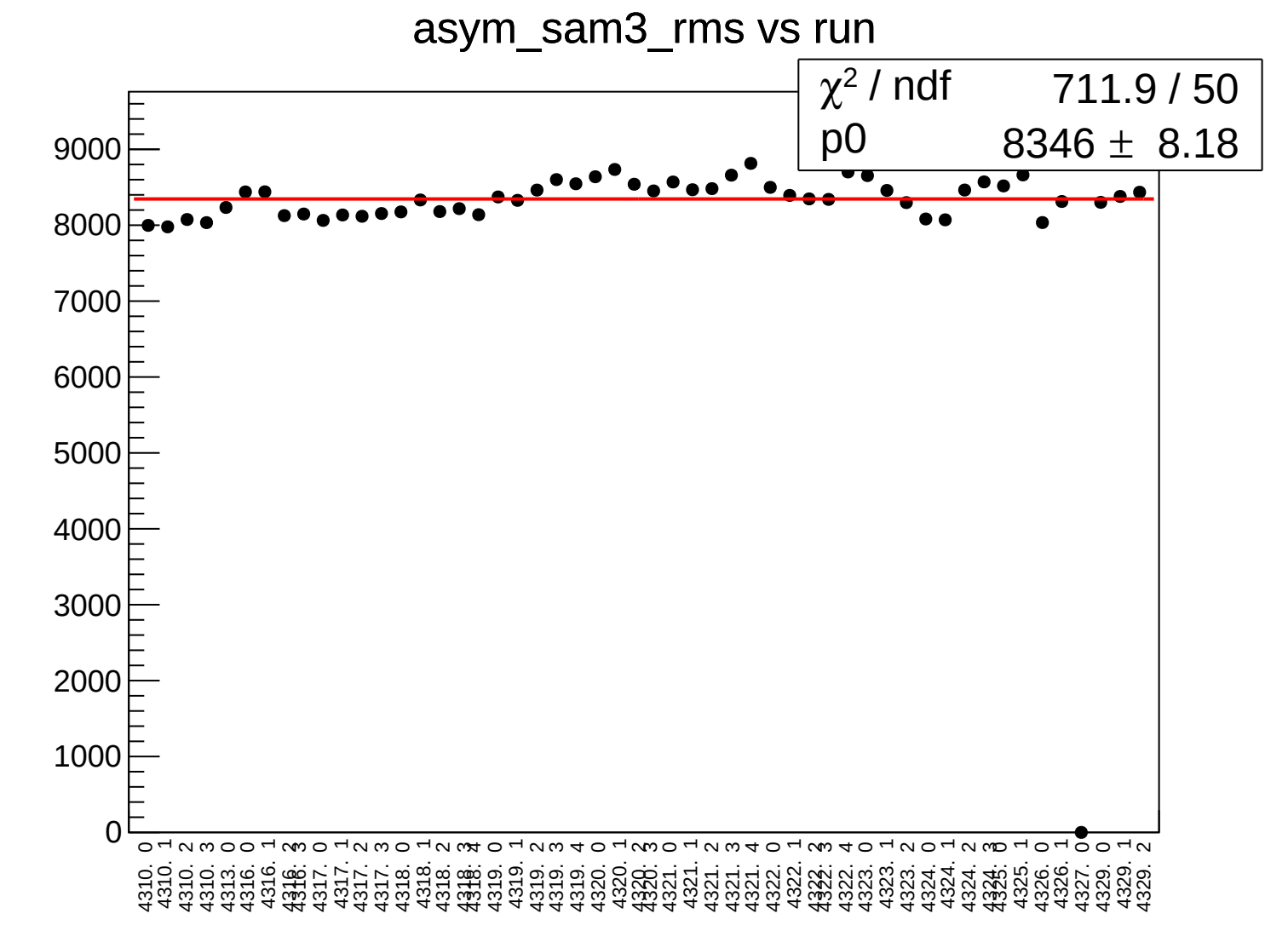

asym_sam2_mean vs run
×10^3
χ² / ndf 53.19 / 50
p0 −6383 ± 7801
200
150
100
50
0
−50
−100
−150
−200

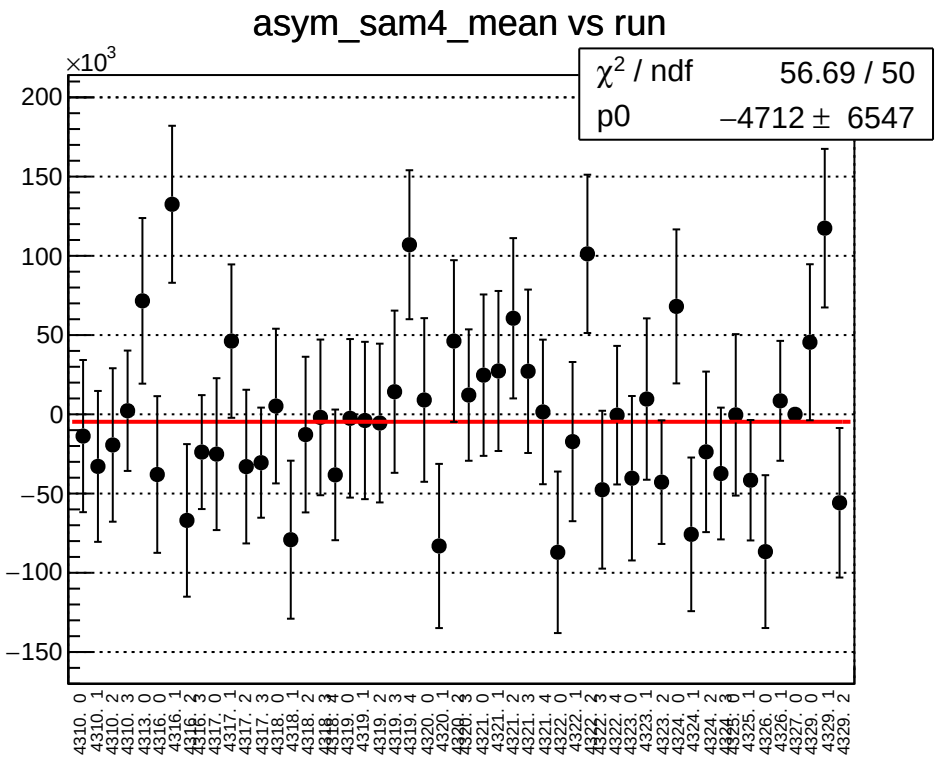

pull1D
Entries 52
Mean 0.02893
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

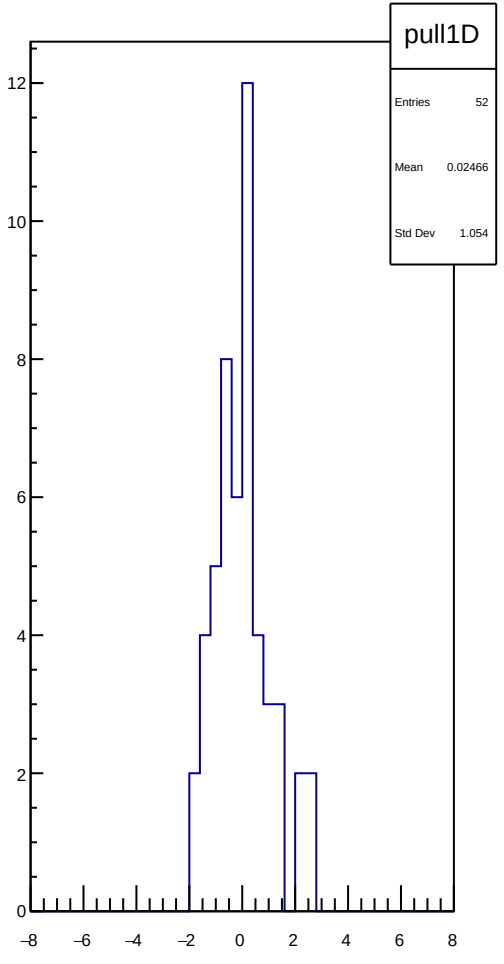

asym_sam2_rms vs run
χ² / ndf 533.8 / 50
p0 5629 ± 5.516
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

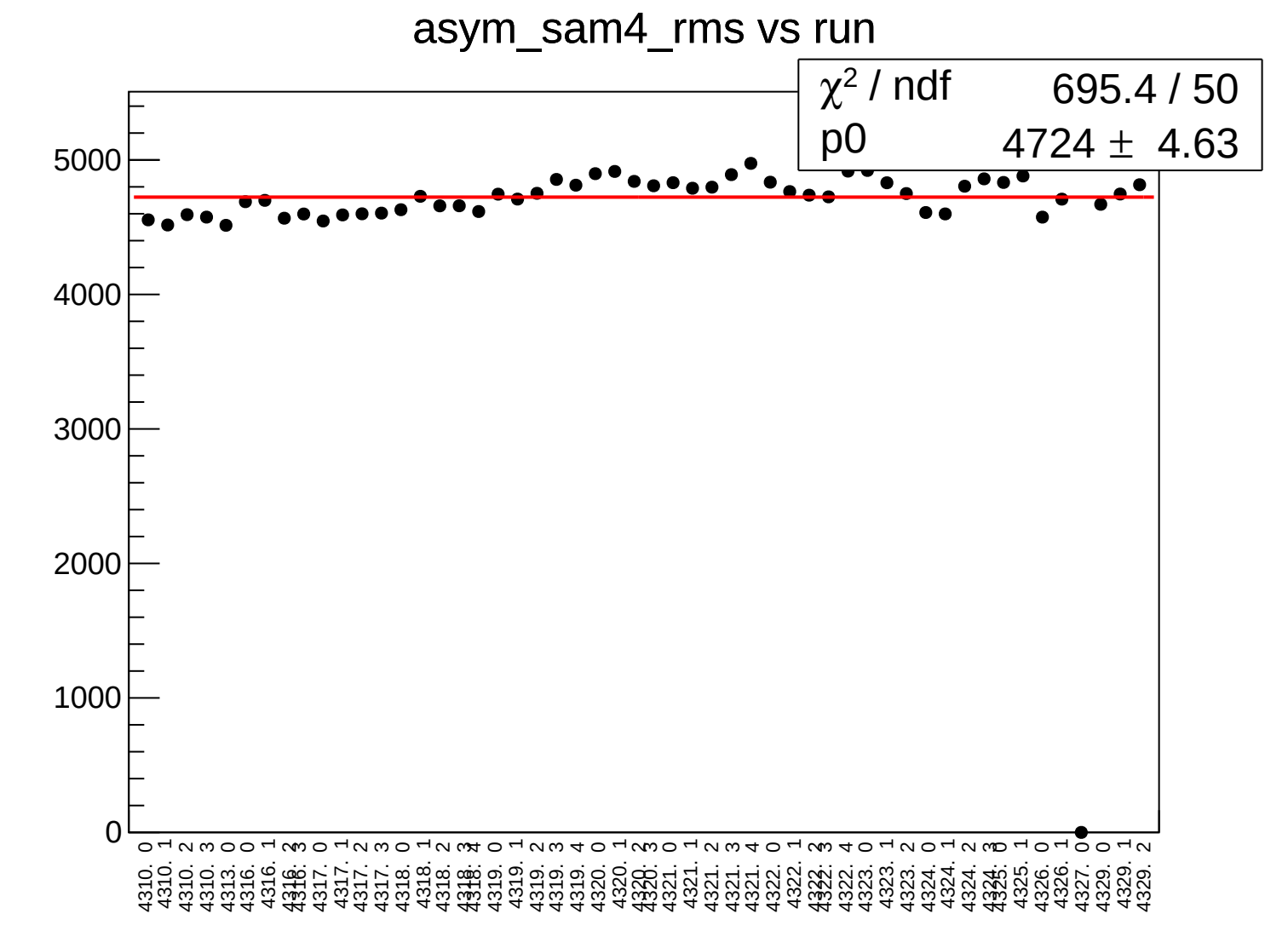

asym_sam3_mean vs run
×10^3
χ² / ndf 57.14 / 50
p0 −5513 ± 1.157e+04
400
300
200
100
0
−100
−200
−300

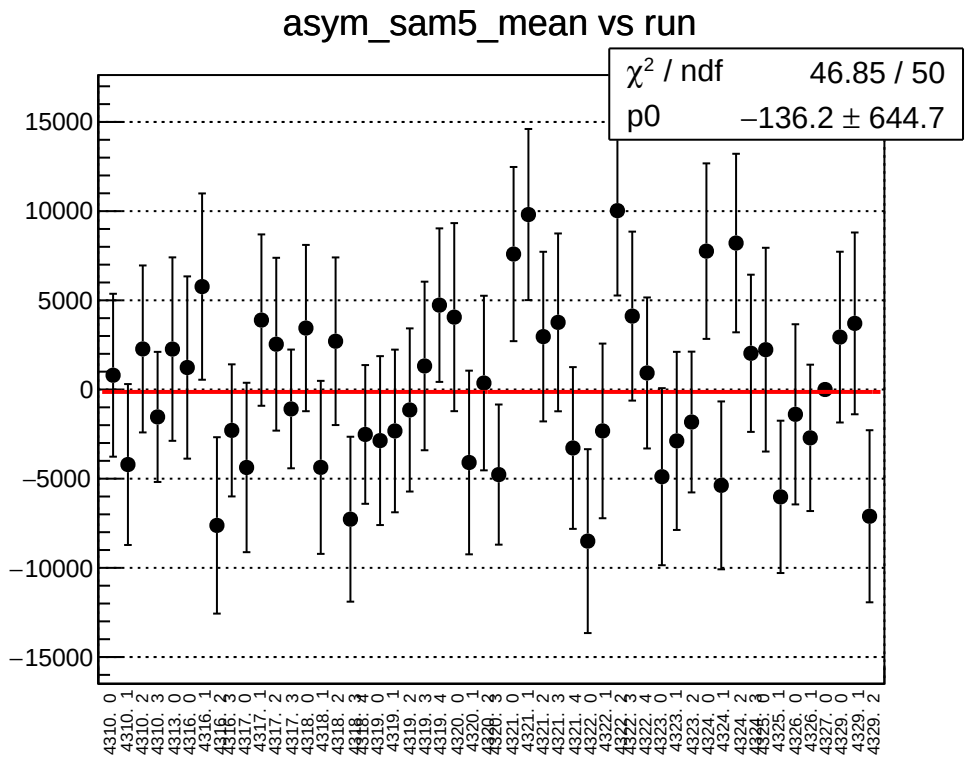

pull1D
Entries 52
Mean 0.02085
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

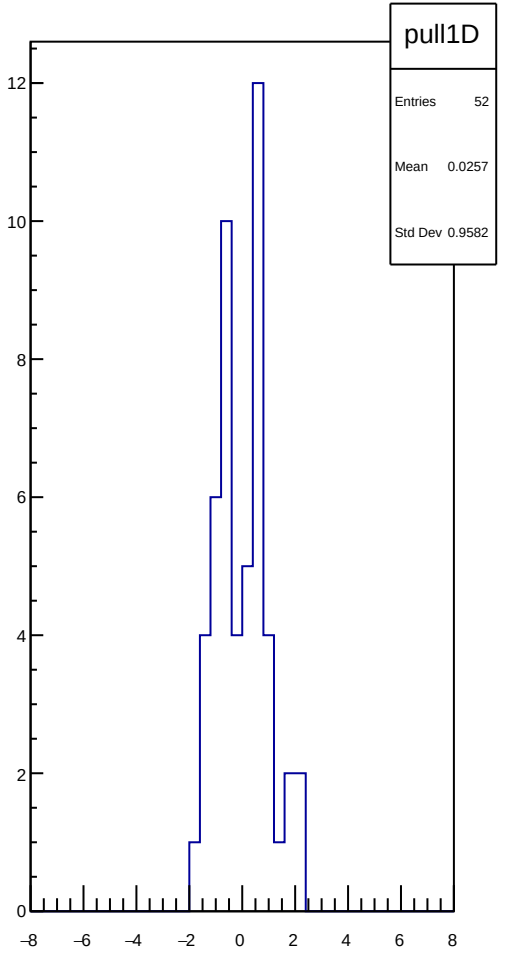

asym_sam3_rms vs run
χ² / ndf 711.9 / 50
p0 8346 ± 8.18
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

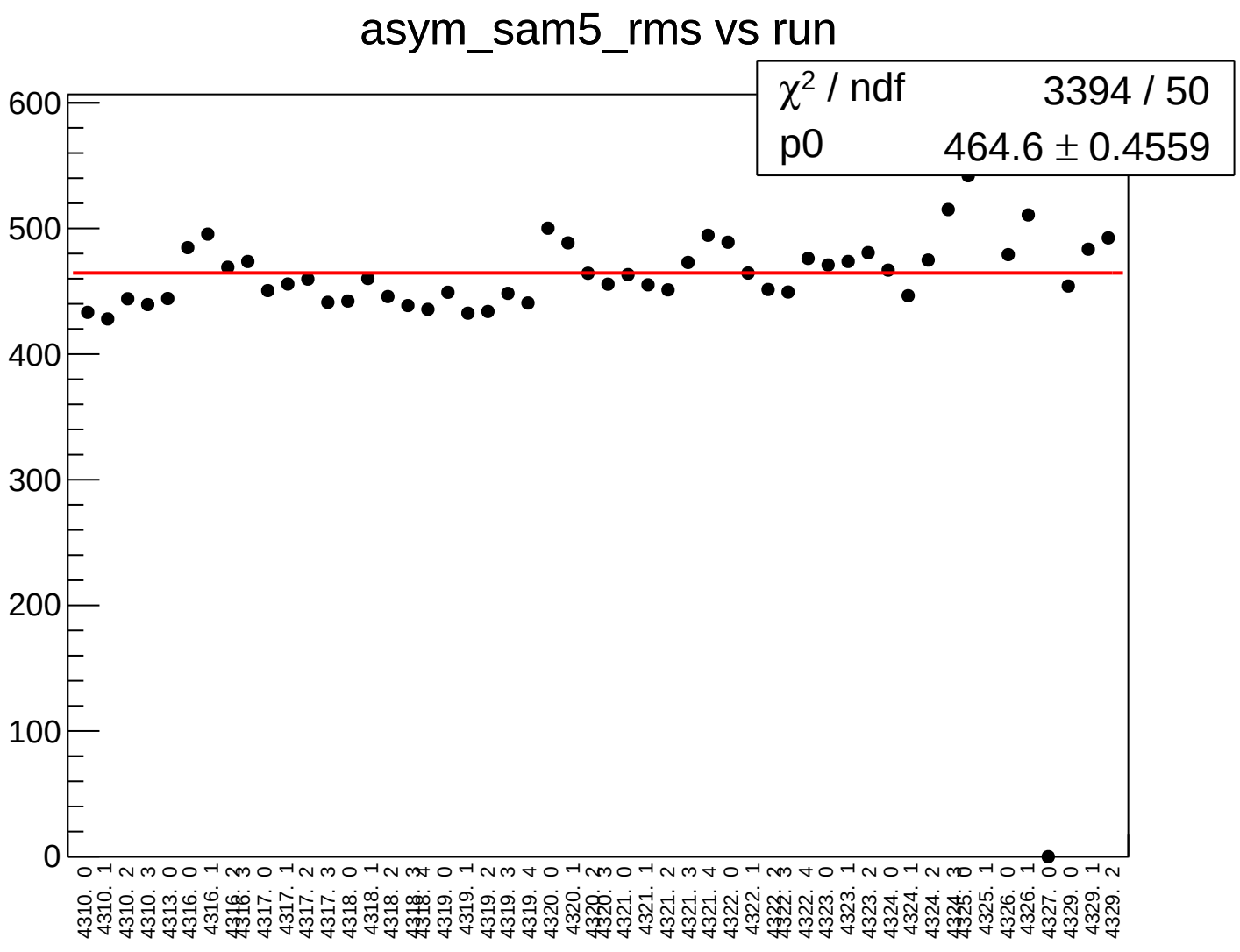

asym_sam4_mean vs run
×10^3
χ² / ndf 56.69 / 50
p0 −4712 ± 6547
200
150
100
50
0
−50
−100
−150

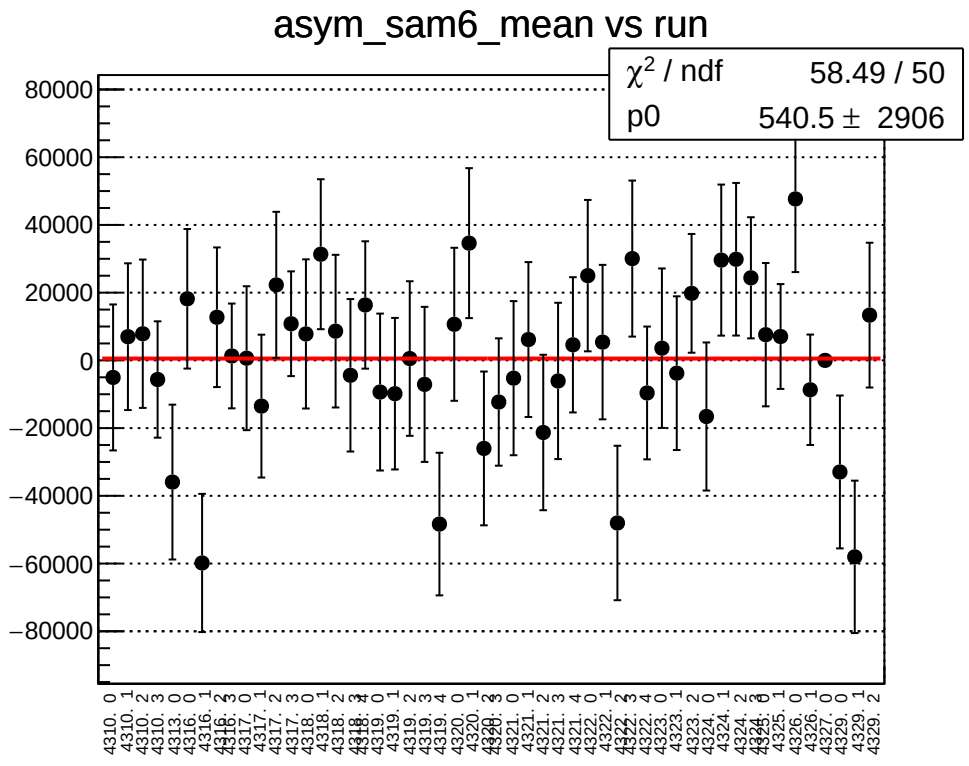

pull1D
Entries 52
Mean 0.02466
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

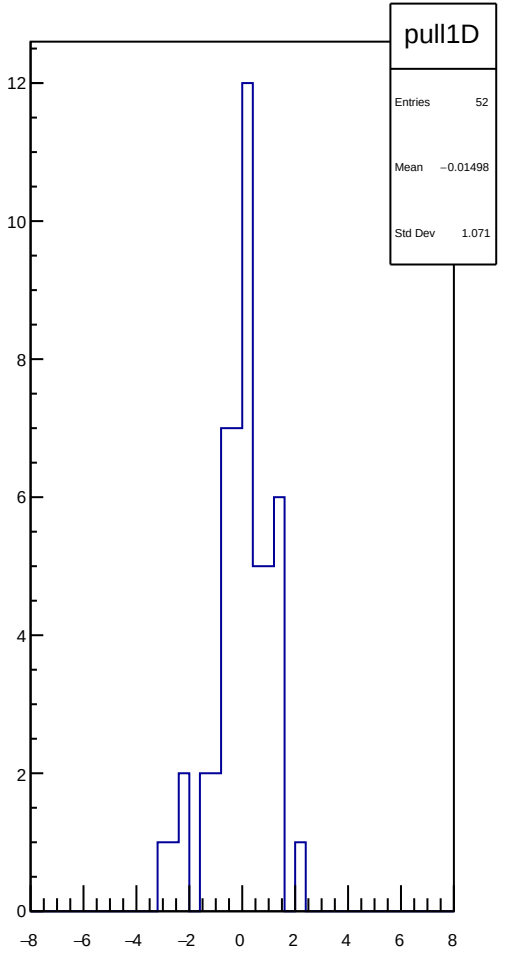

asym_sam4_rms vs run
χ² / ndf 695.4 / 50
p0 4724 ± 4.63
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

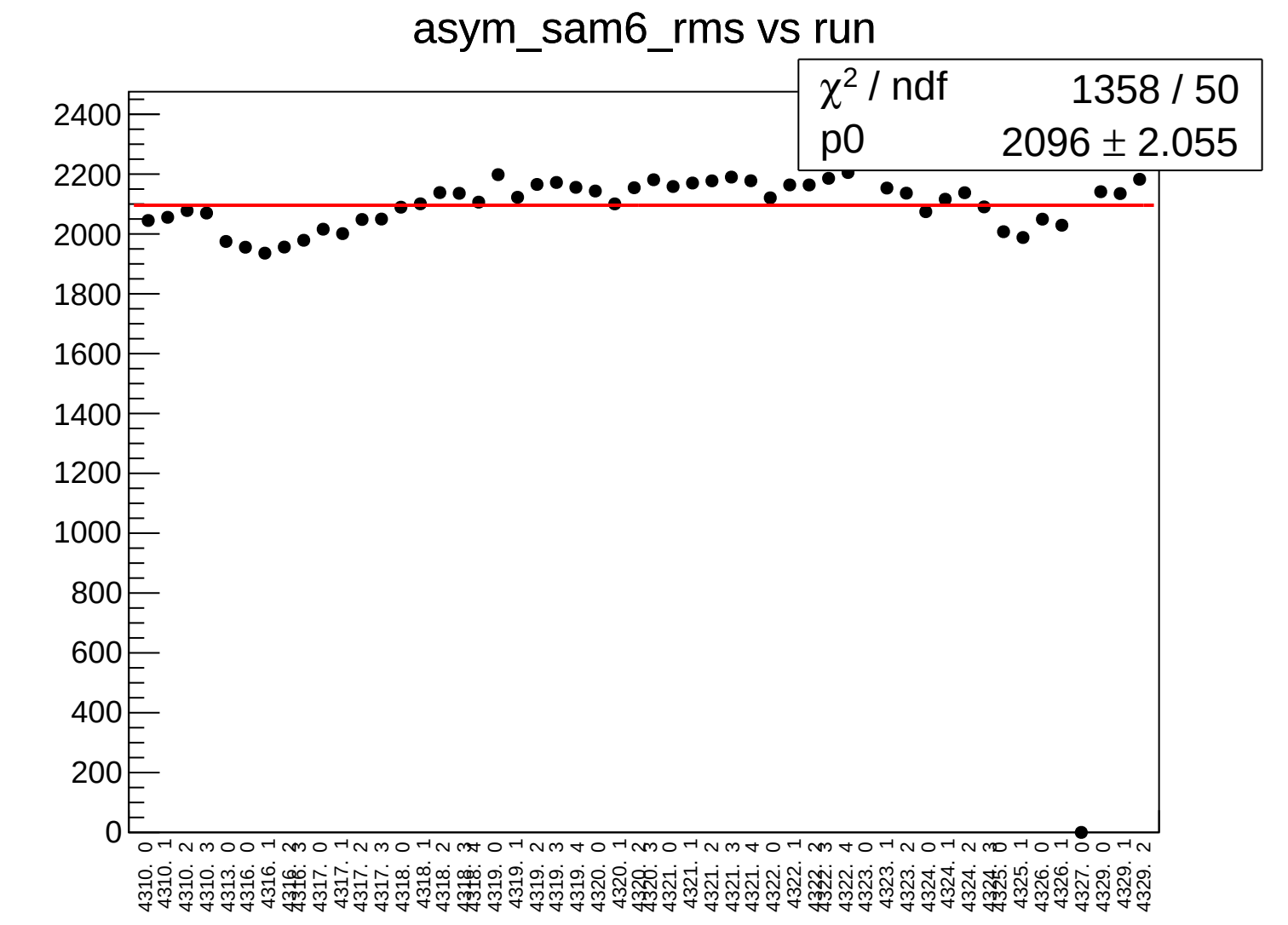

asym_sam5_mean vs run
χ² / ndf 46.85 / 50
p0 −136.2 ± 644.7
15000
10000
5000
0
−5000
−10000
−15000

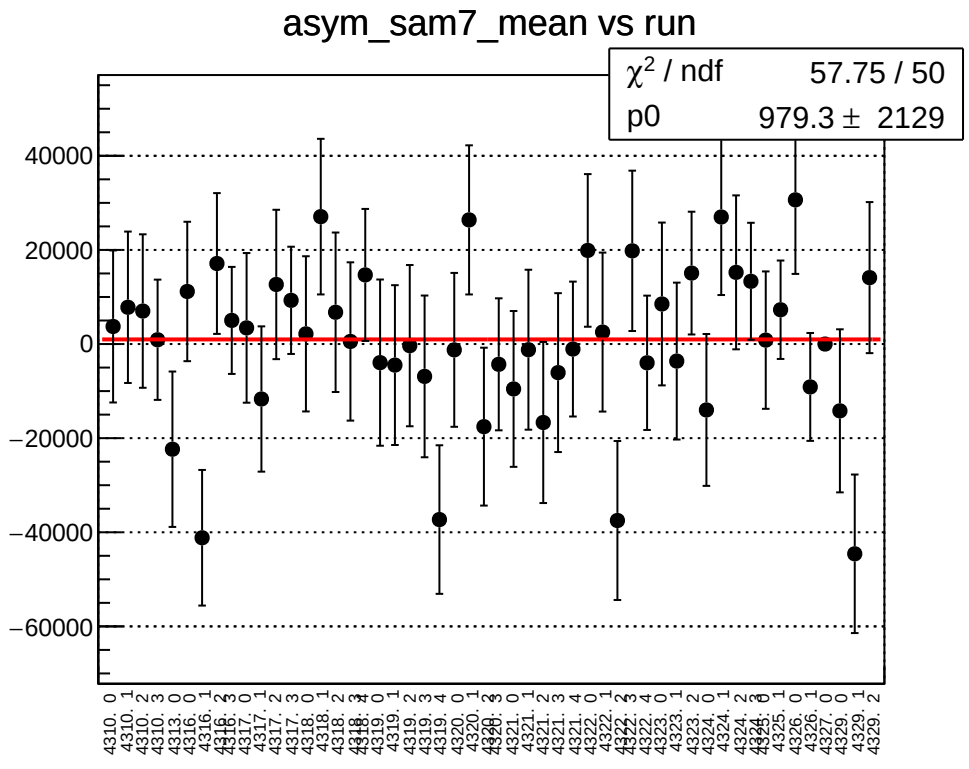

pull1D
Entries 52
Mean 0.0257
Std Dev 0.9582
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

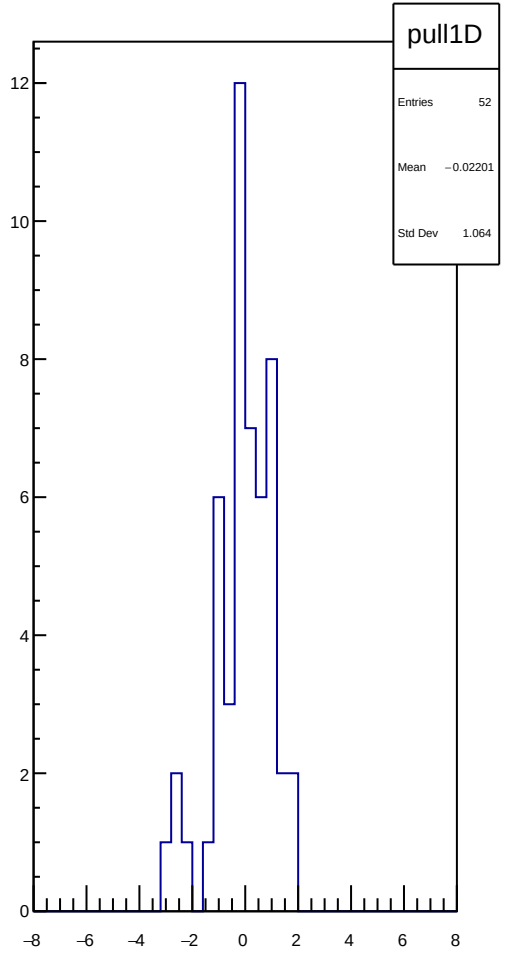

asym_sam5_rms vs run
χ² / ndf 3394 / 50
p0 464.6 ± 0.4559
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

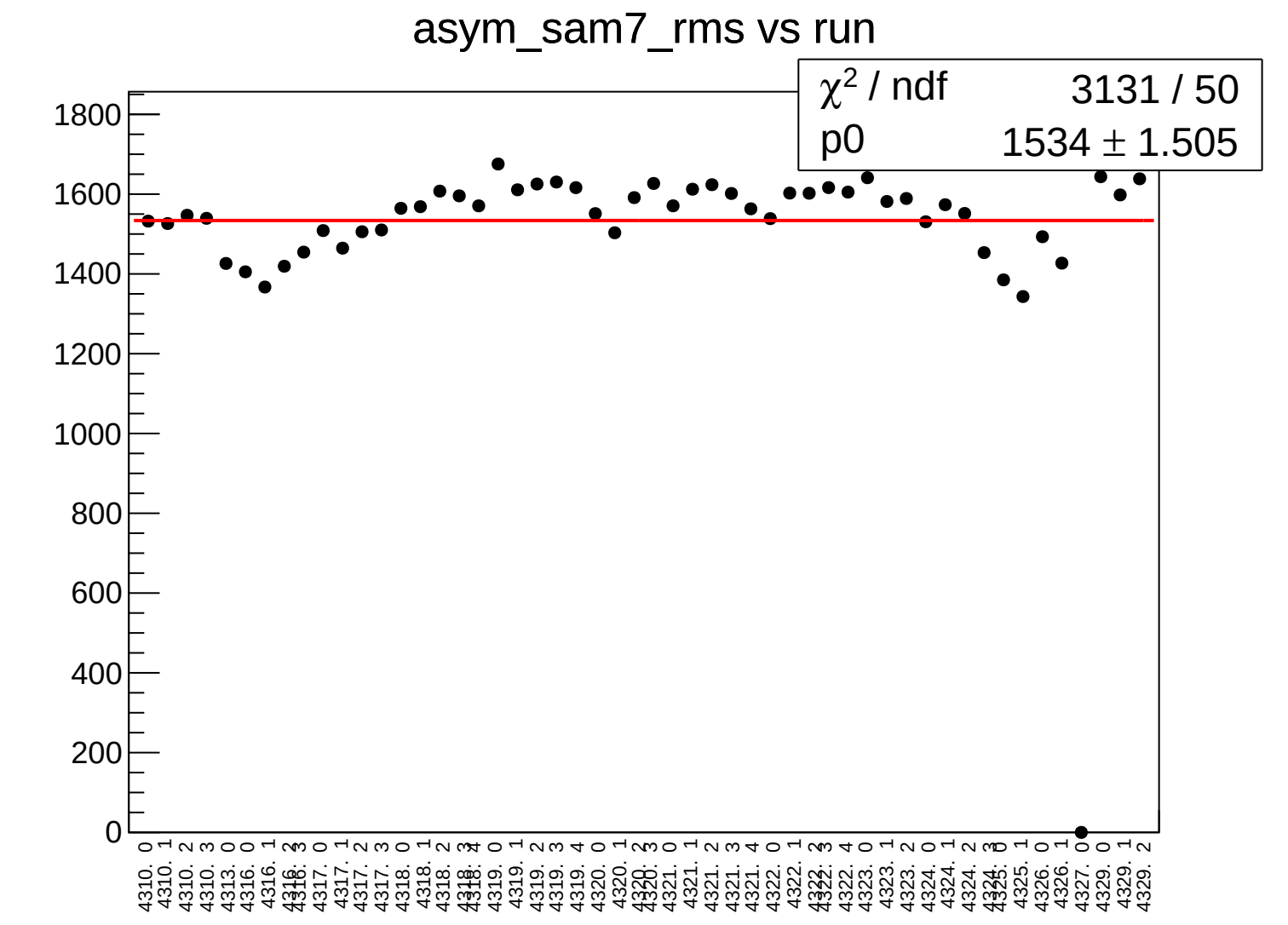

asym_sam6_mean vs run
χ² / ndf 58.49 / 50
p0 540.5 ± 2906
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000

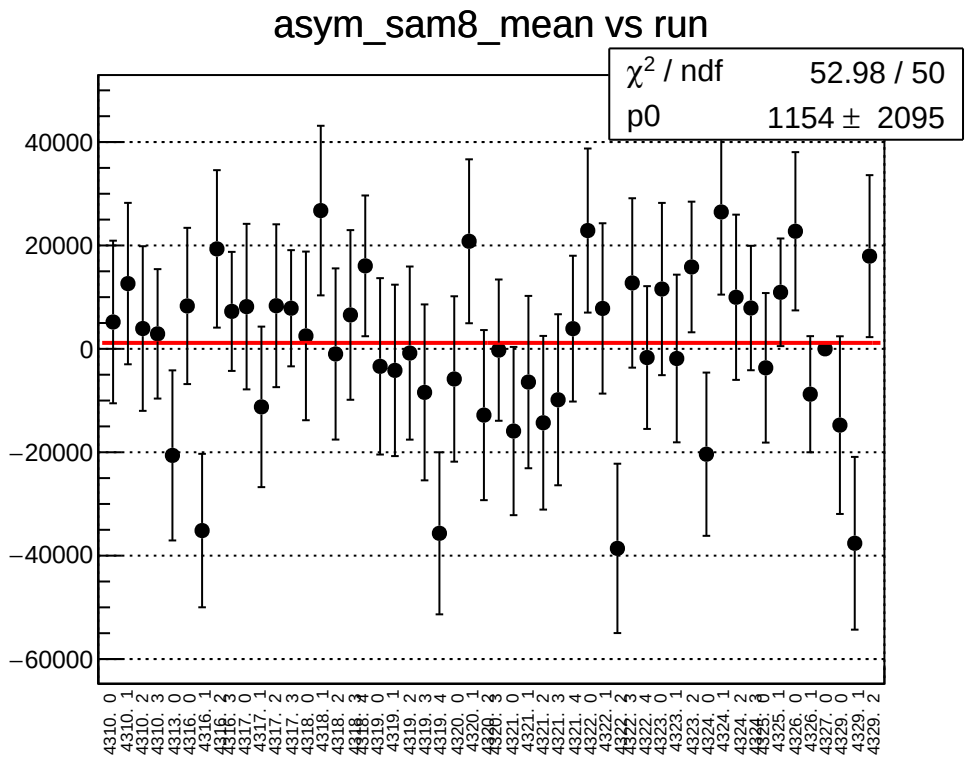

pull1D
Entries 52
Mean −0.01498
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

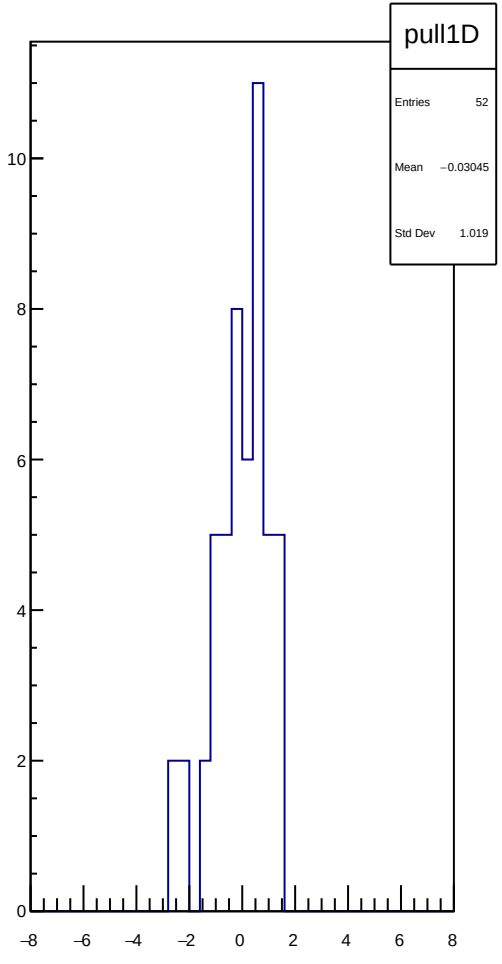

asym_sam6_rms vs run
χ² / ndf 1358 / 50
p0 2096 ± 2.055
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

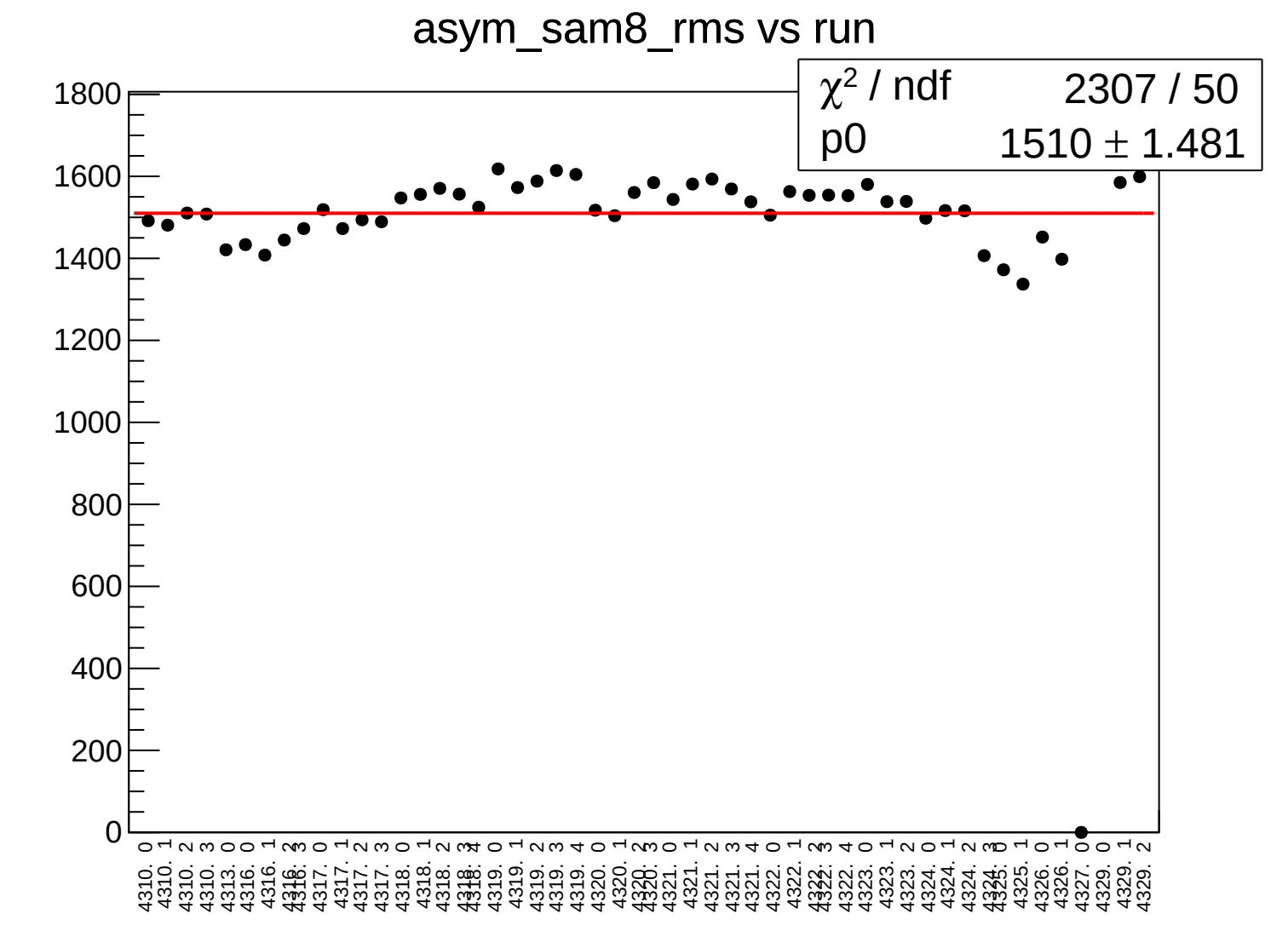

asym_sam7_mean vs run
χ² / ndf 57.75 / 50
p0 979.3 ± 2129
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

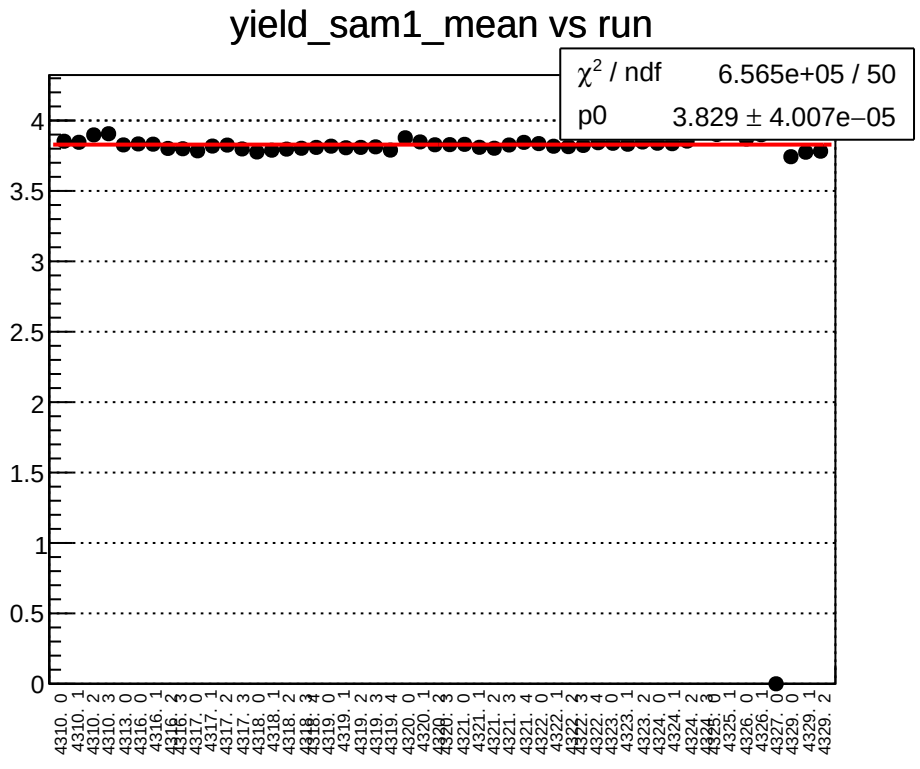

pull1D
Entries 52
Mean −0.02201
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

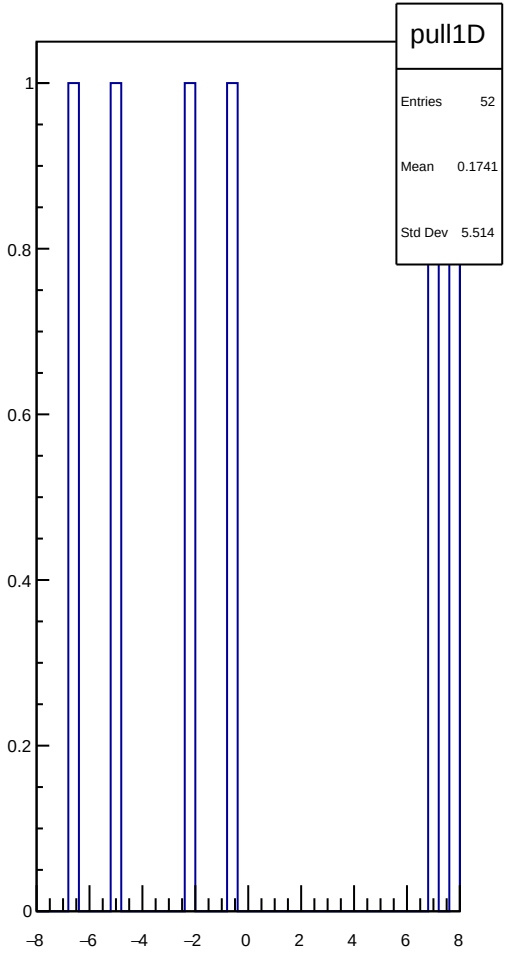

asym_sam7_rms vs run
χ² / ndf 3131 / 50
p0 1534 ± 1.505
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

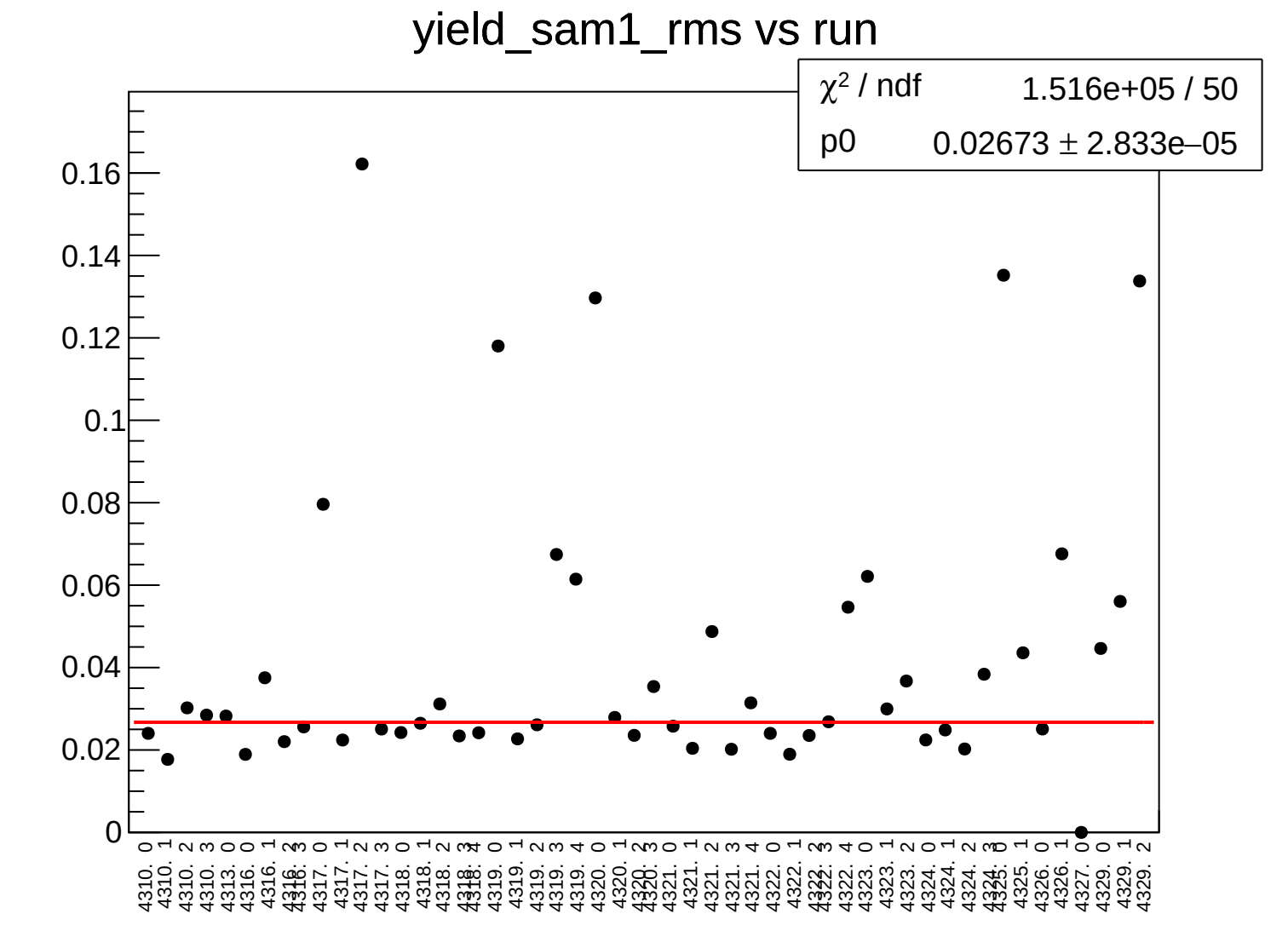

asym_sam8_mean vs run
χ² / ndf 52.98 / 50
p0 1154 ± 2095
40000
20000
0
−20000
−40000
−60000

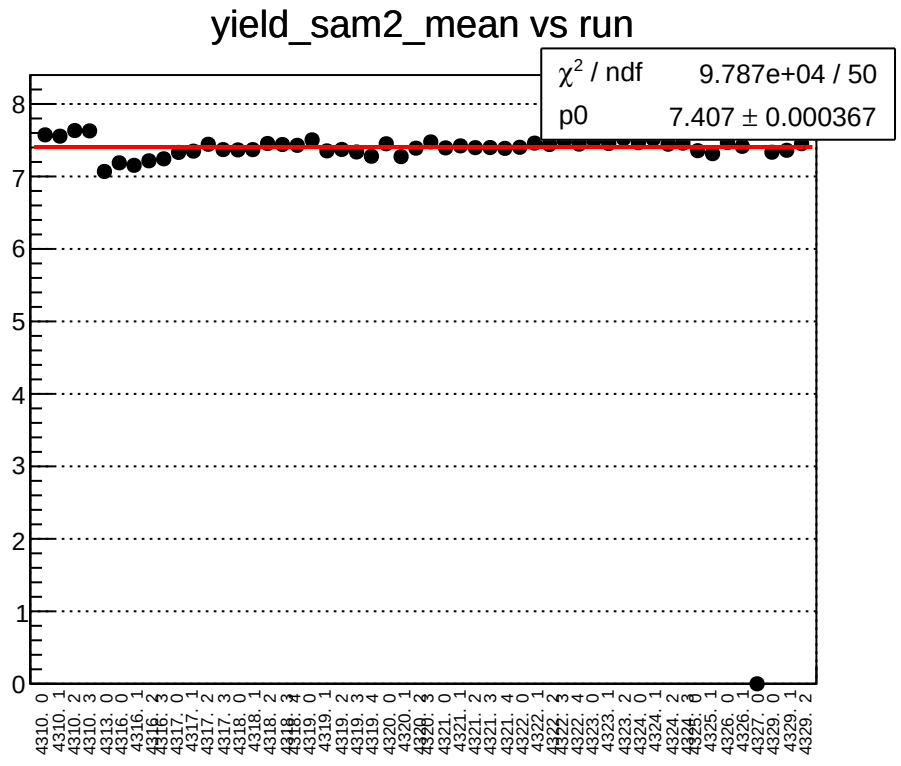

pull1D
Entries 52
Mean −0.03045
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

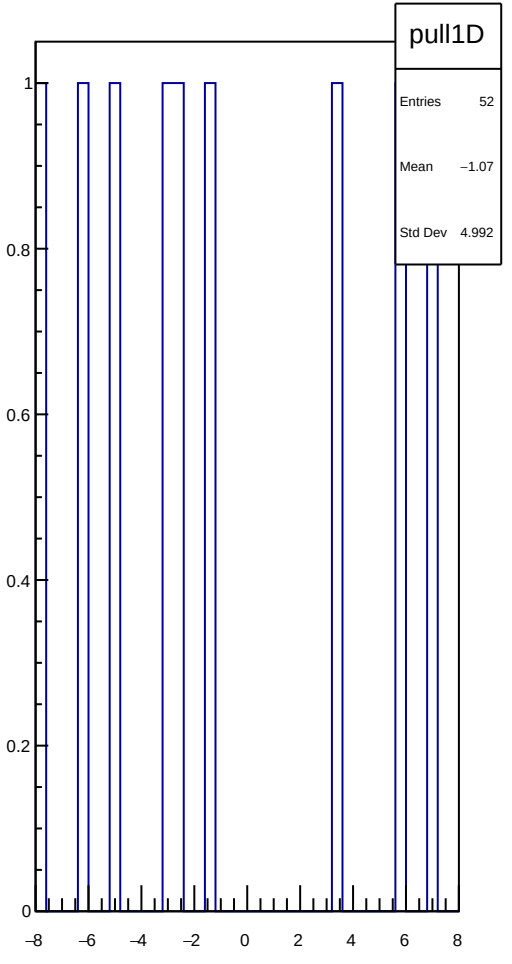

asym_sam8_rms vs run
χ² / ndf 2307 / 50
p0 1510 ± 1.481
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

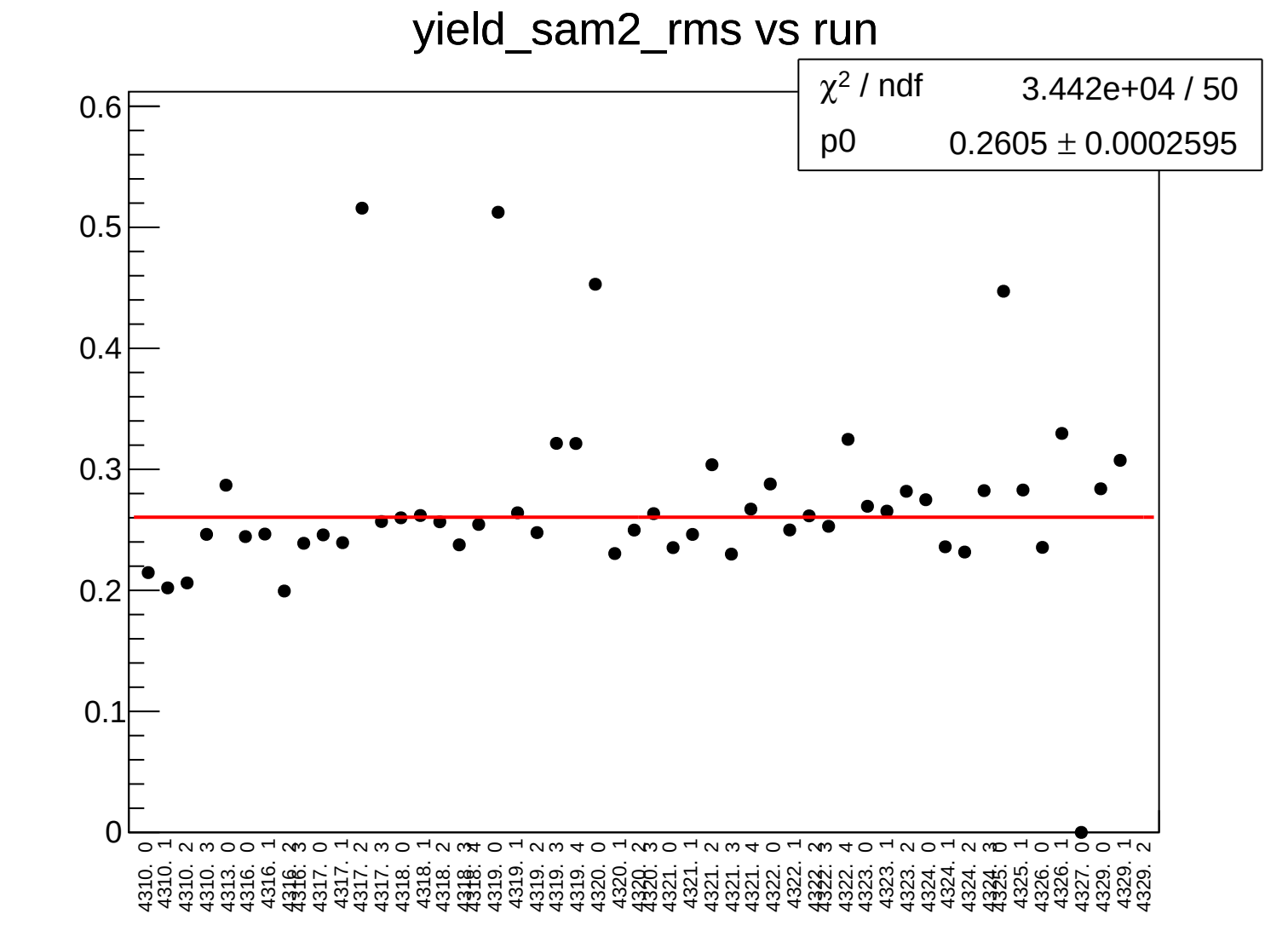

yield_sam1_mean vs run
χ² / ndf 6.565e+05 / 50
p0 3.829 ± 4.007e−05
4
3.5
3
2.5
2
1.5
1
0.5
0

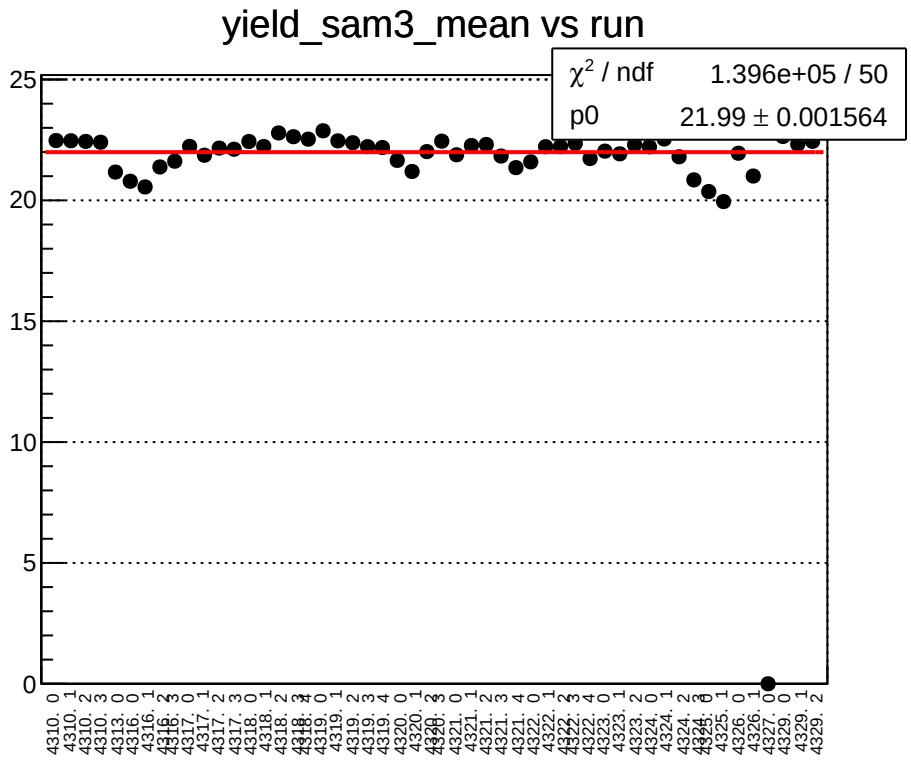

pull1D
Entries 52
Mean 0.1741
Std Dev 5.514
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

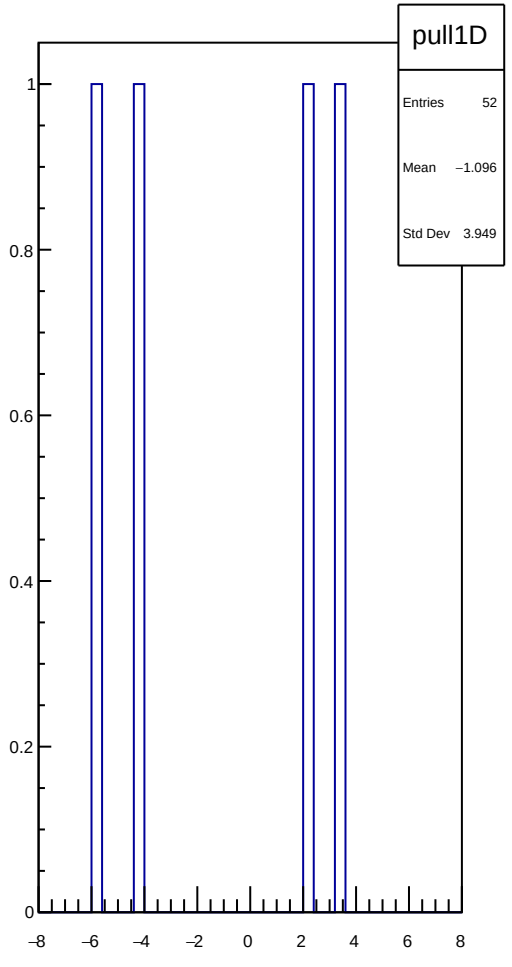

yield_sam1_rms vs run
χ² / ndf 1.516e+05 / 50
p0 0.02673 ± 2.833e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

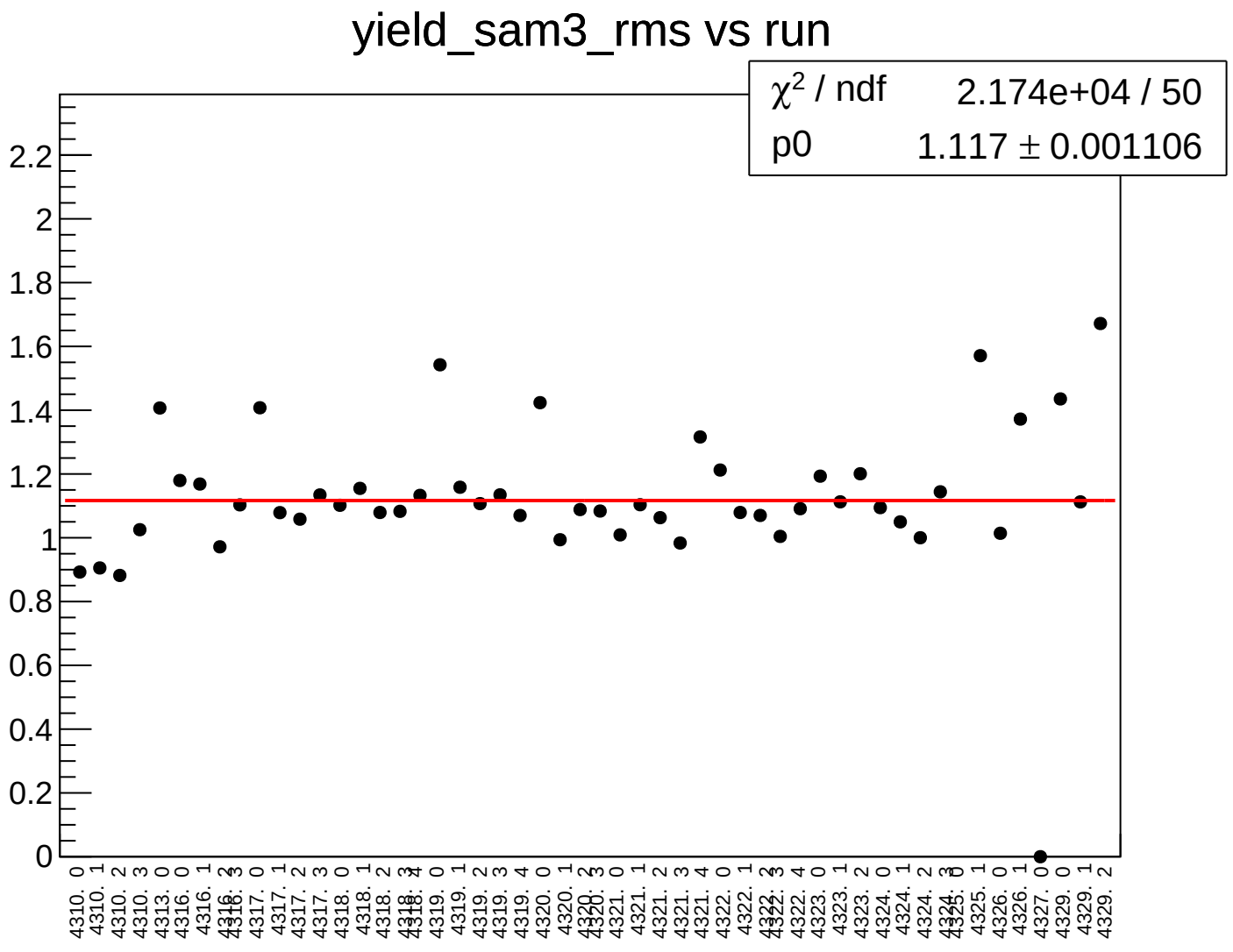

yield_sam2_mean vs run
χ² / ndf 9.787e+04 / 50
p0 7.407 ± 0.000367
0
1
2
3
4
5
6
7
8

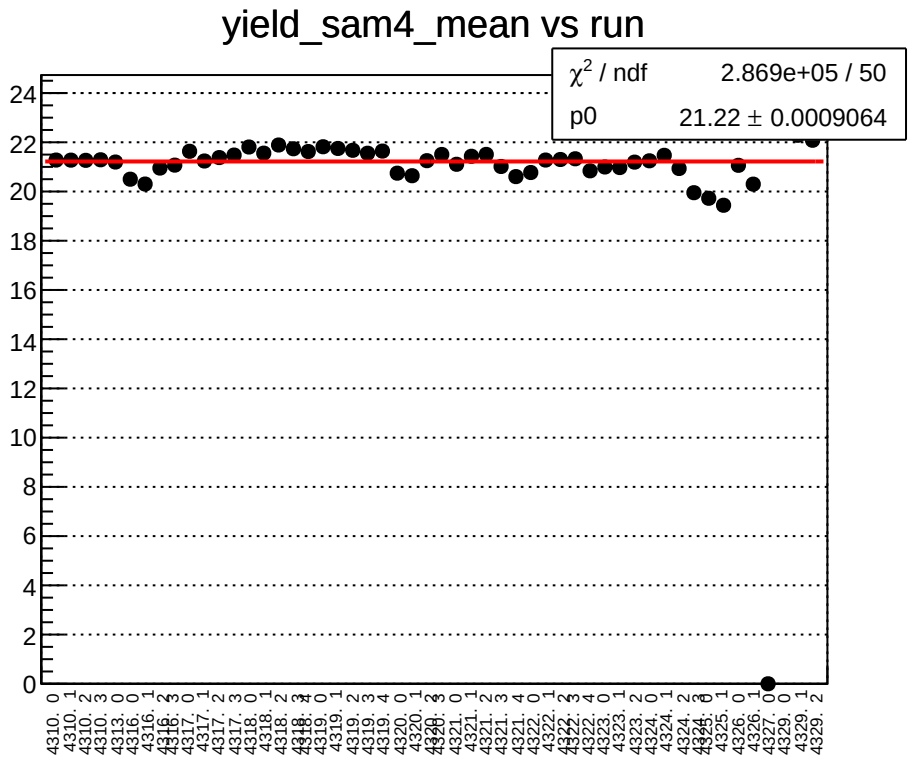

pull1D
Entries 52
Mean −1.07
Std Dev 4.992
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

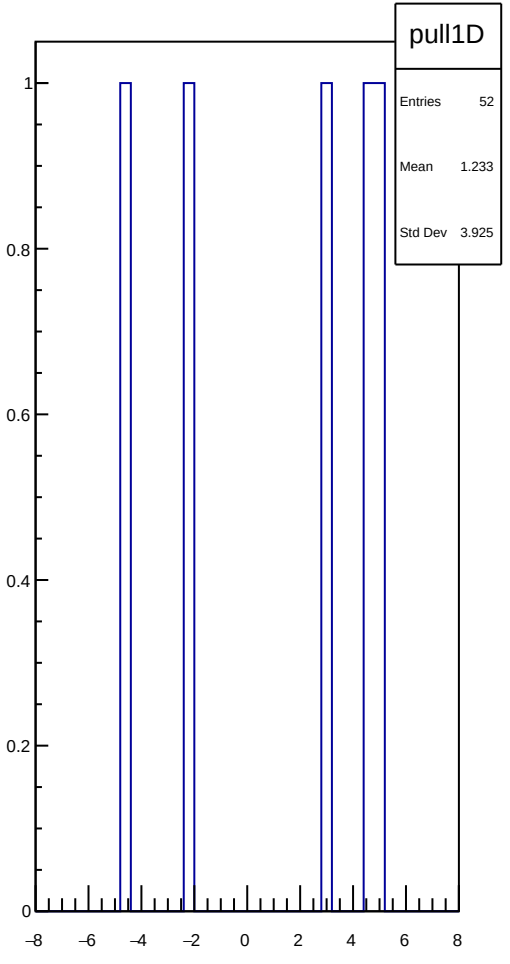

yield_sam2_rms vs run
χ² / ndf 3.442e+04 / 50
p0 0.2605 ± 0.0002595
0.6
0.5
0.4
0.3
0.2
0.1
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

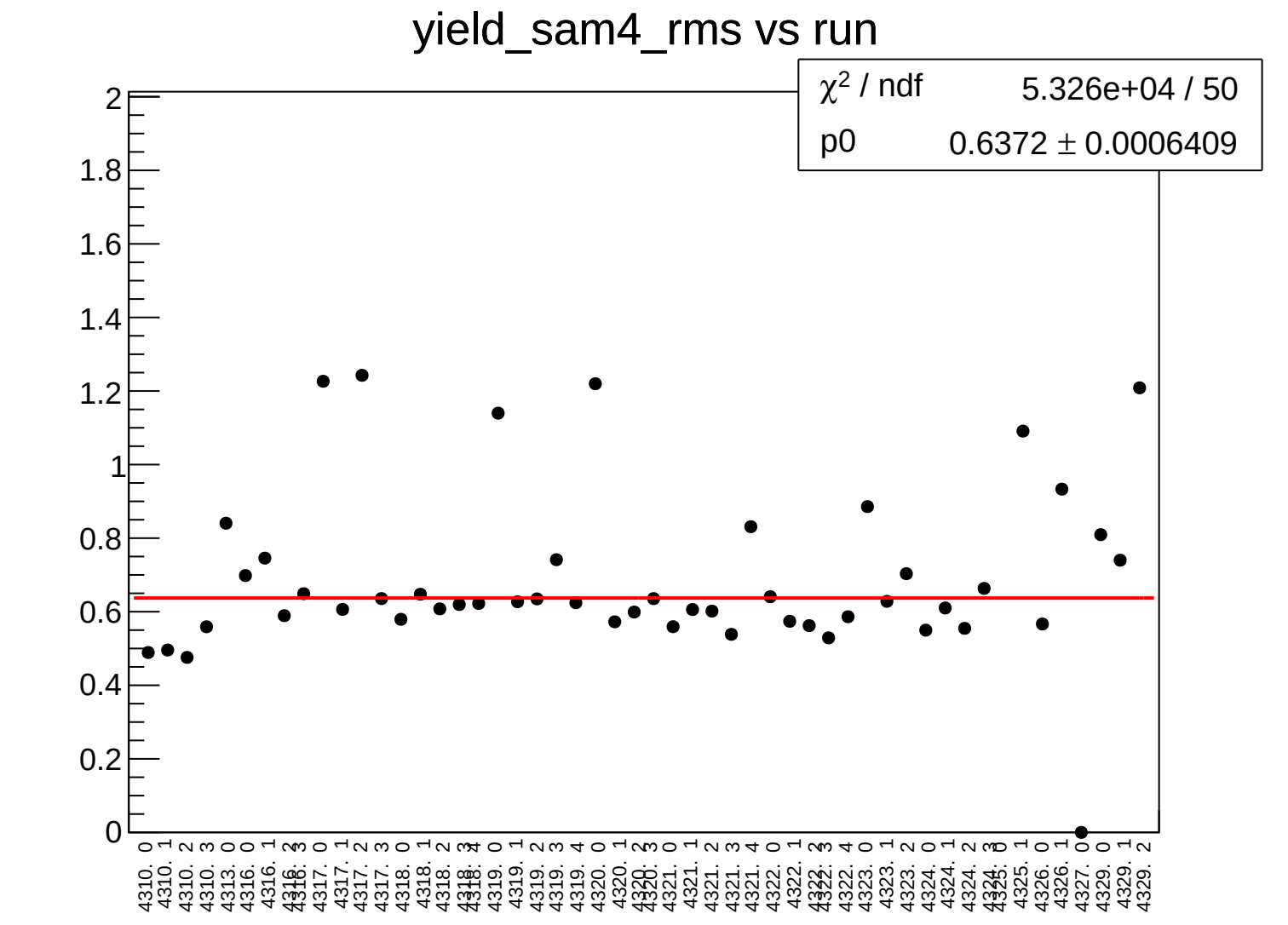

yield_sam3_mean vs run
χ² / ndf 1.396e+05 / 50
p0 21.99 ± 0.001564
25
20
15
10
5
0

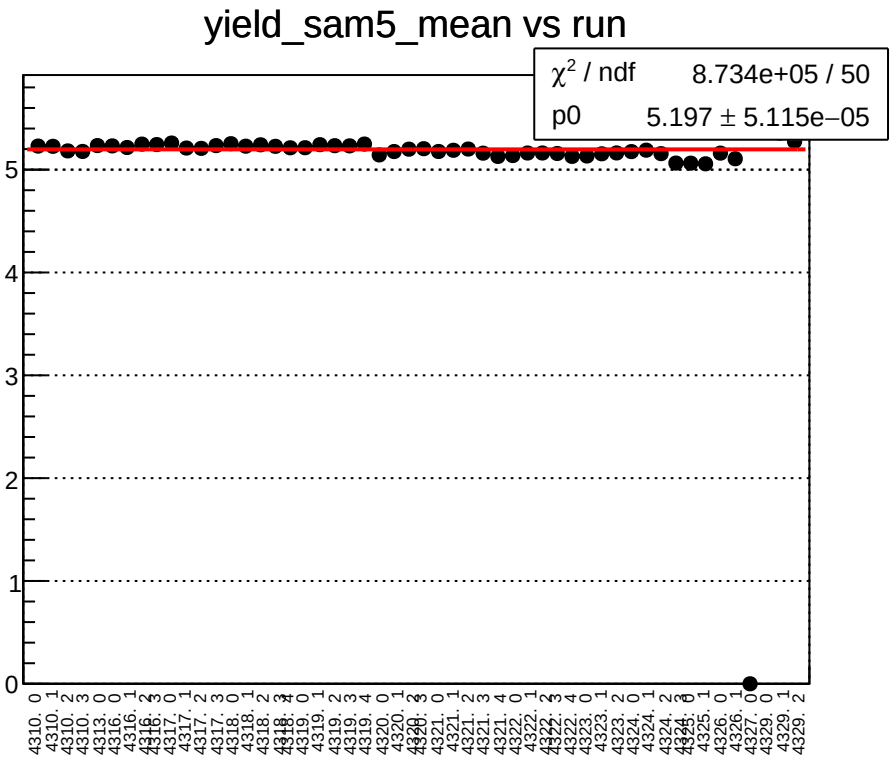

pull1D
Entries 52
Mean −1.096
Std Dev 3.949
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

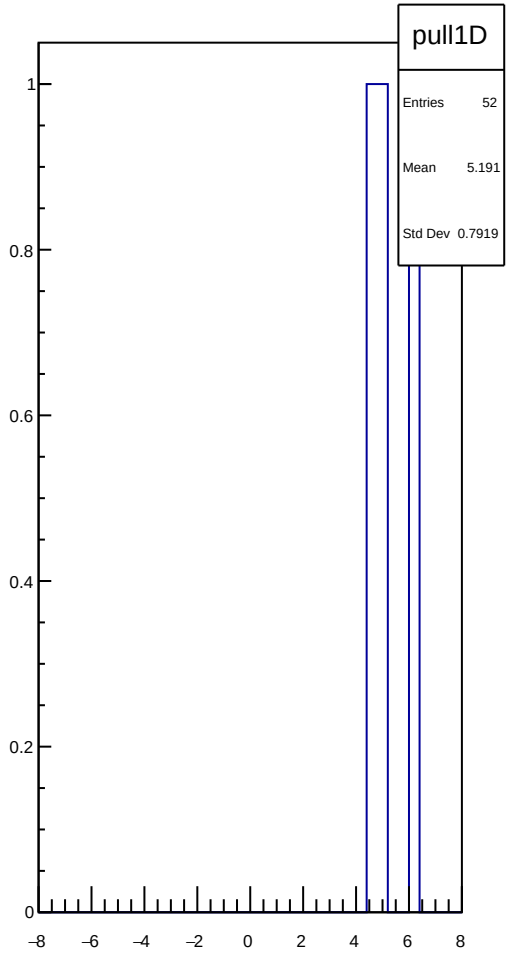

yield_sam3_rms vs run
χ² / ndf 2.174e+04 / 50
p0 1.117 ± 0.001106
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

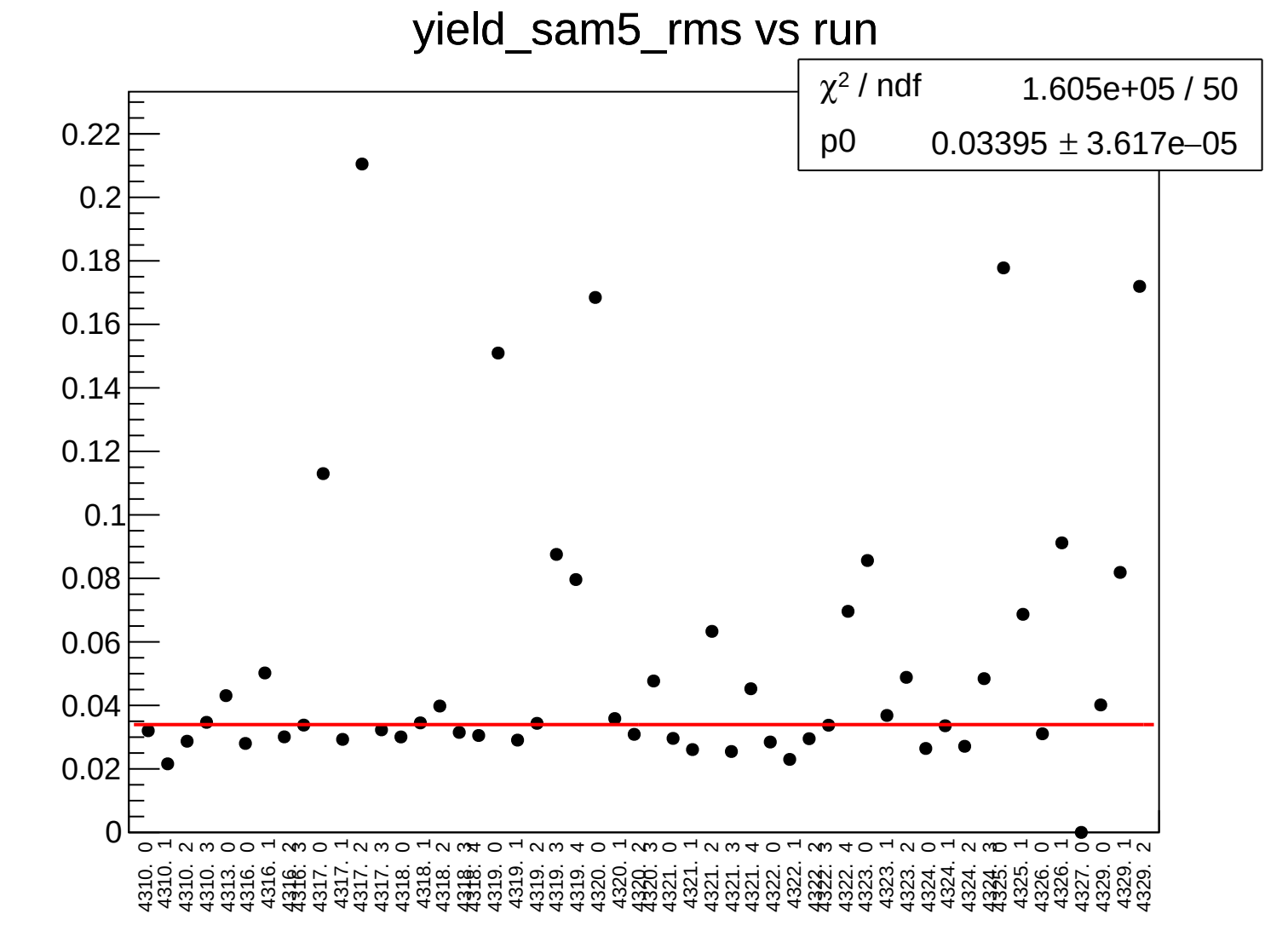

yield_sam4_mean vs run
χ² / ndf 2.869e+05 / 50
p0 21.22 ± 0.0009064

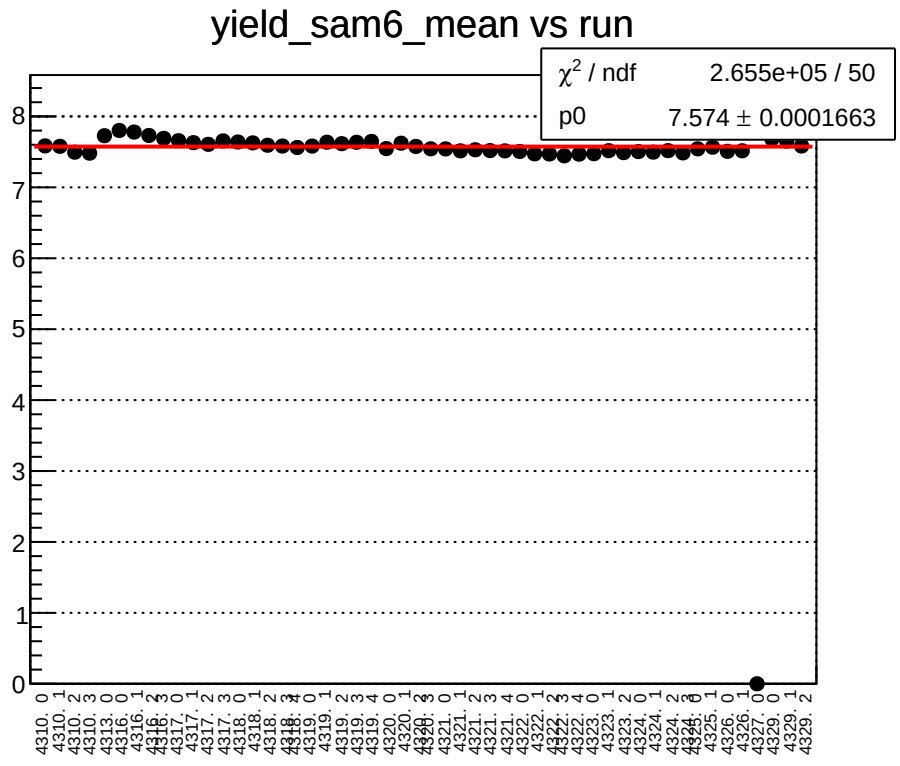

pull1D
Entries 52
Mean 1.233
Std Dev 3.925

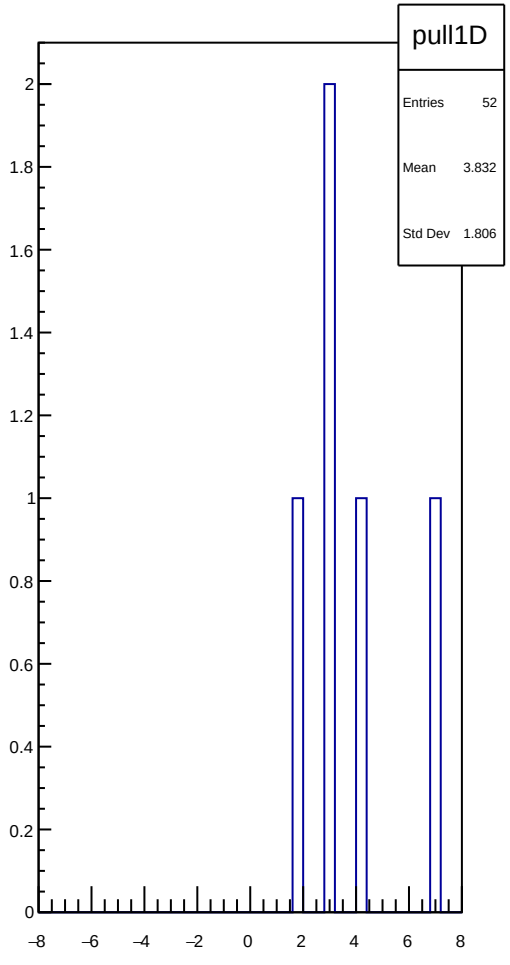

yield_sam4_rms vs run
χ² / ndf 5.326e+04 / 50
p0 0.6372 ± 0.0006409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

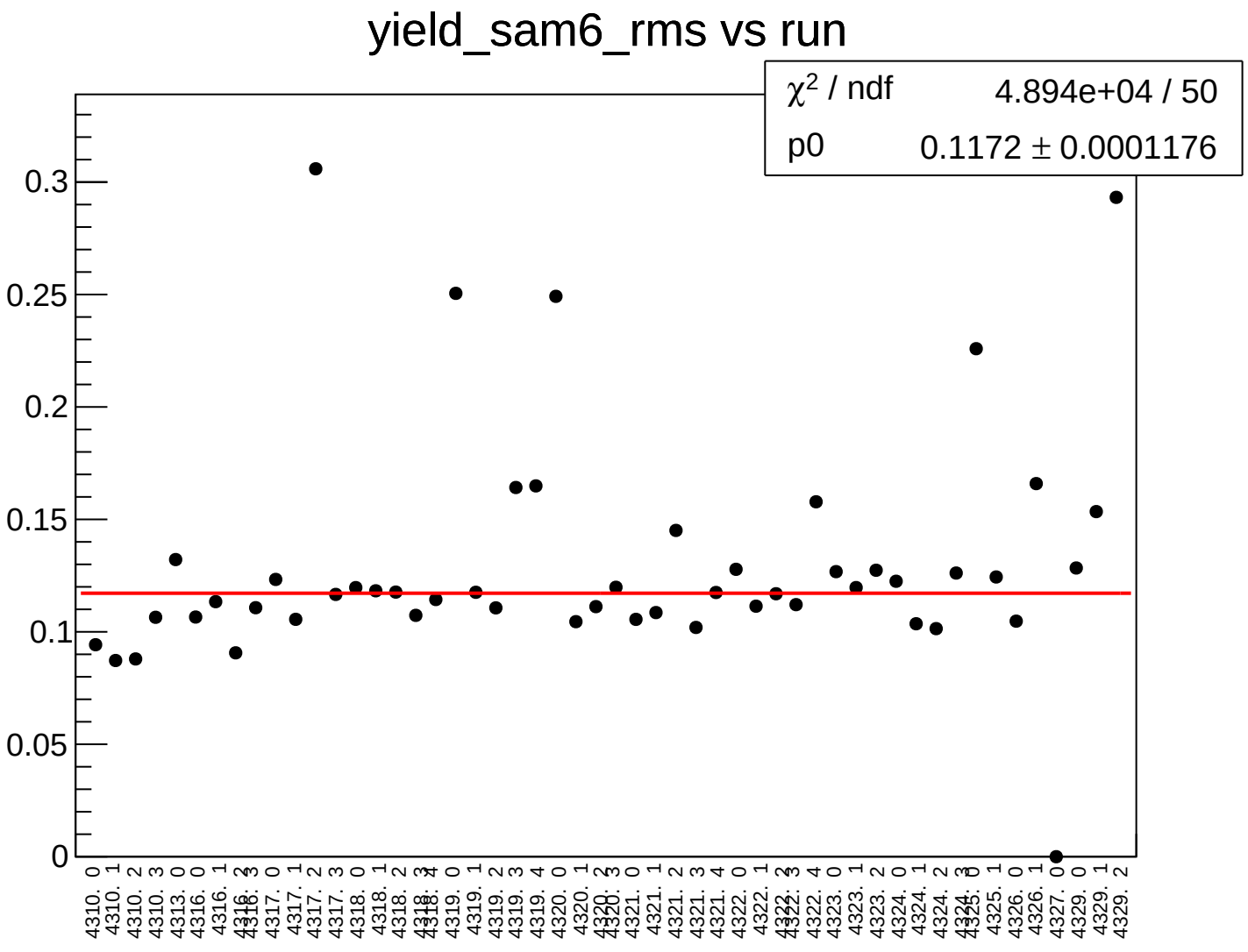

yield_sam5_mean vs run
χ² / ndf 8.734e+05 / 50
p0 5.197 ± 5.115e−05
0
1
2
3
4
5

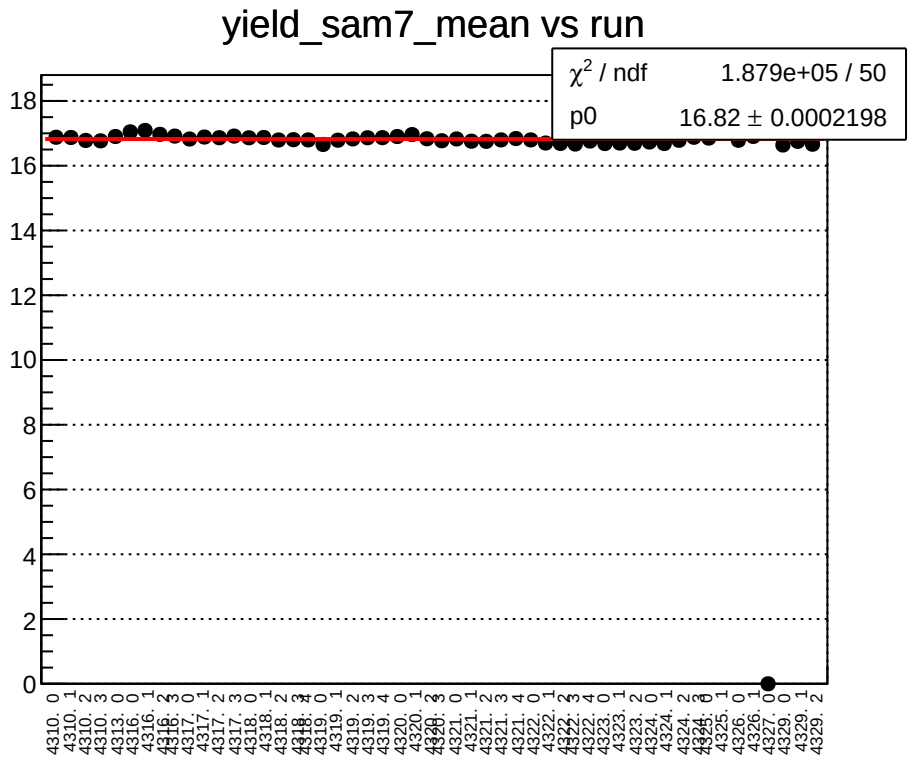

pull1D
Entries 52
Mean 5.191
Std Dev 0.7919
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

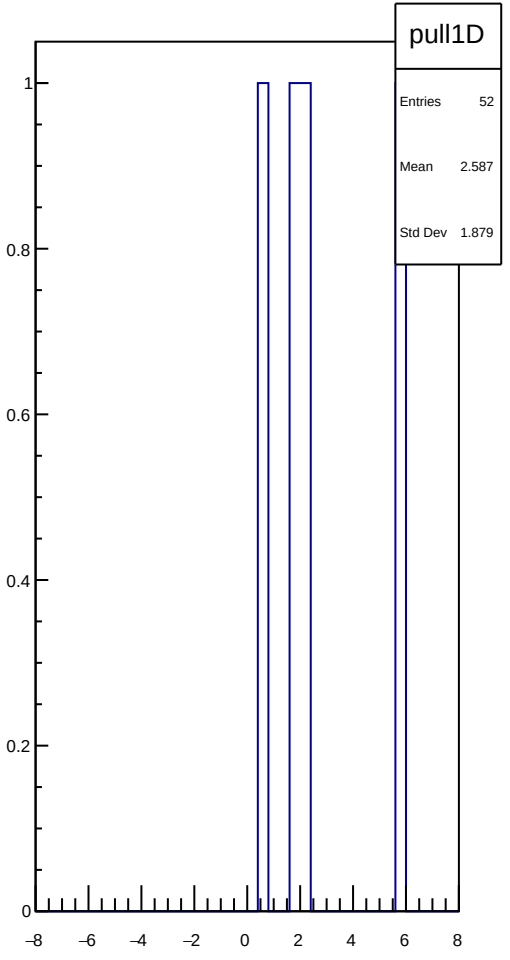

yield_sam5_rms vs run
χ² / ndf 1.605e+05 / 50
p0 0.03395 ± 3.617e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

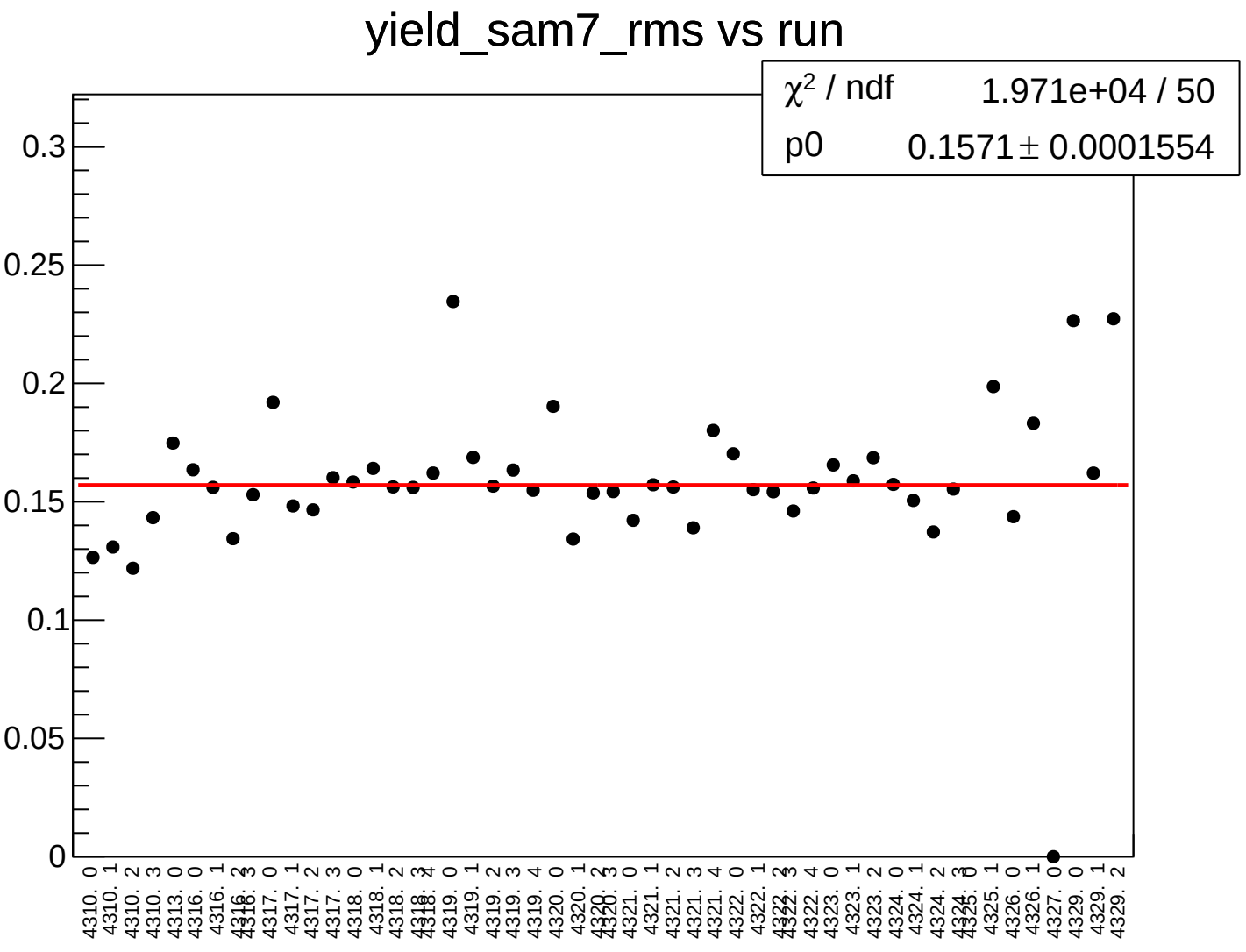

yield_sam6_mean vs run
χ² / ndf 2.655e+05 / 50
p0 7.574 ± 0.0001663

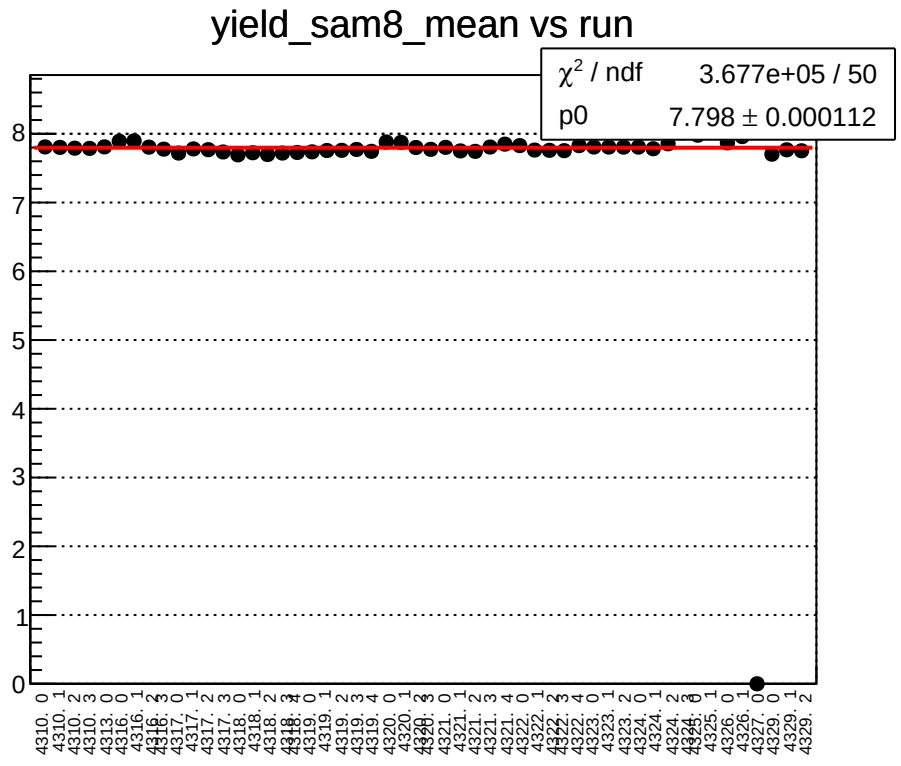

pull1D
Entries 52
Mean 3.832
Std Dev 1.806

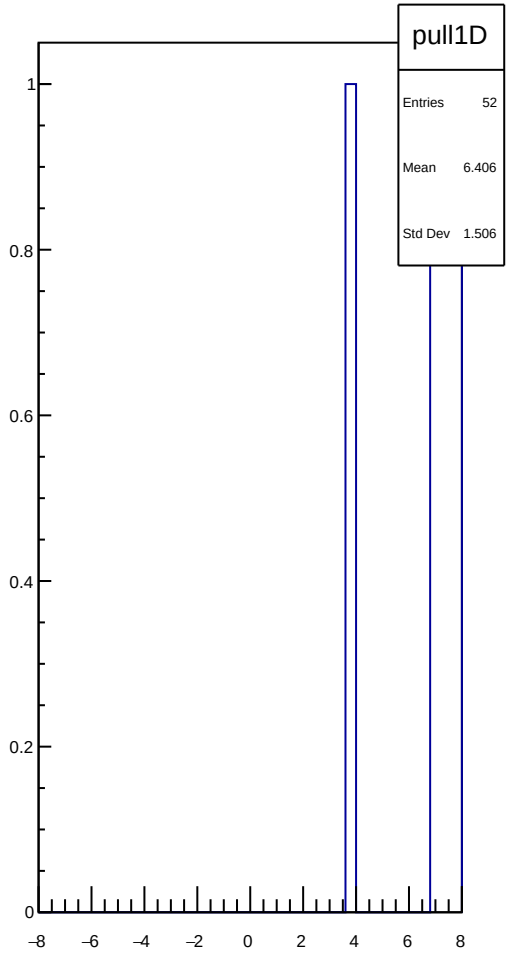

yield_sam6_rms vs run
χ² / ndf 4.894e+04 / 50
p0 0.1172 ± 0.0001176
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

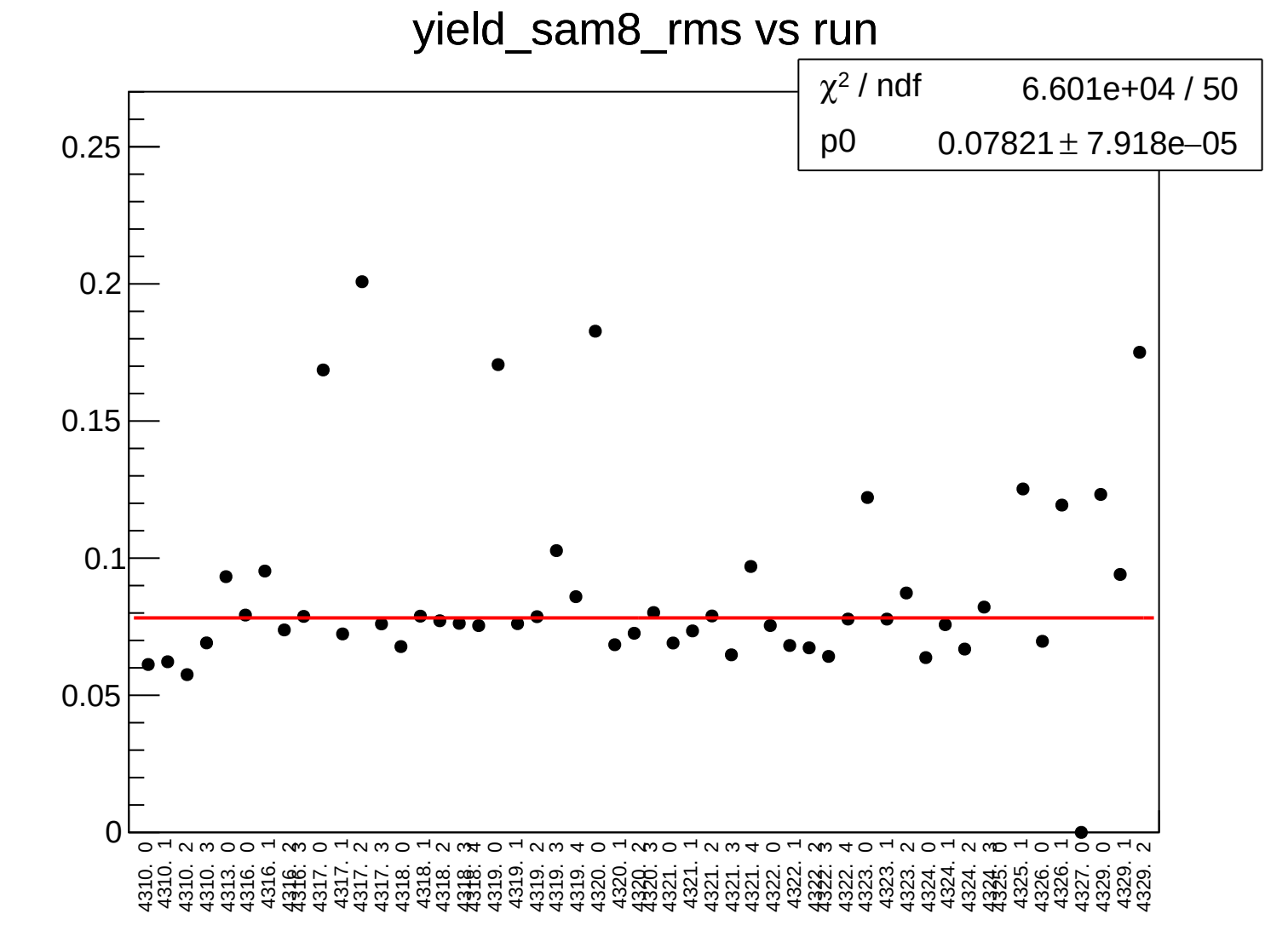

yield_sam7_mean vs run
χ² / ndf 1.879e+05 / 50
p0 16.82 ± 0.0002198
18
16
14
12
10
8
6
4
2
0

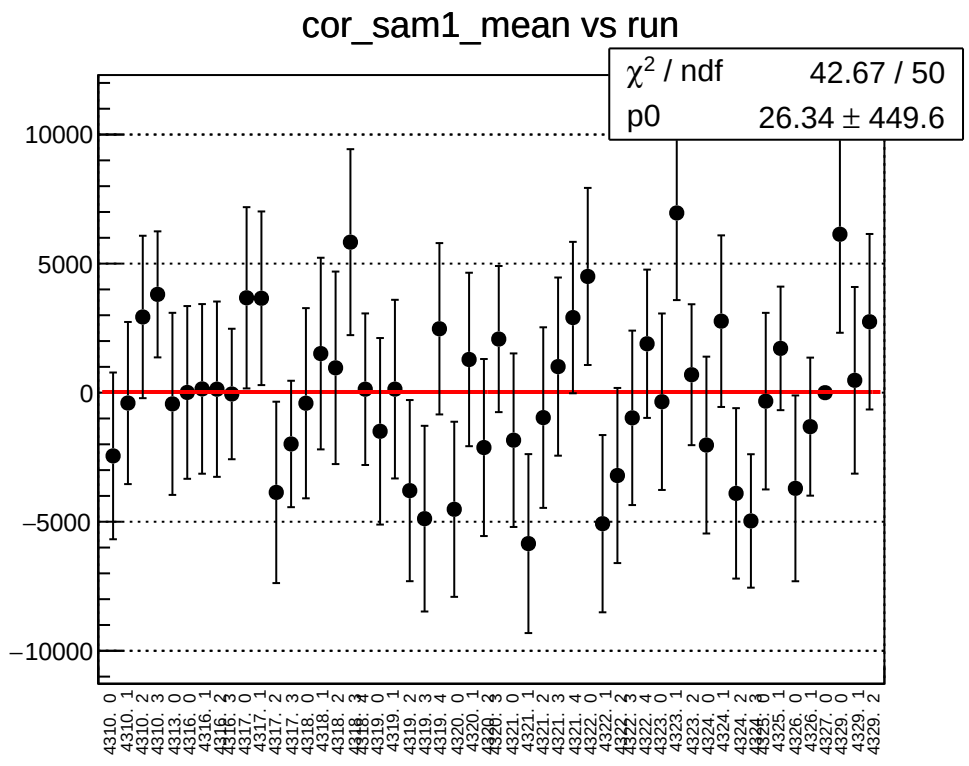

pull1D
Entries 52
Mean 2.587
Std Dev 1.879
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

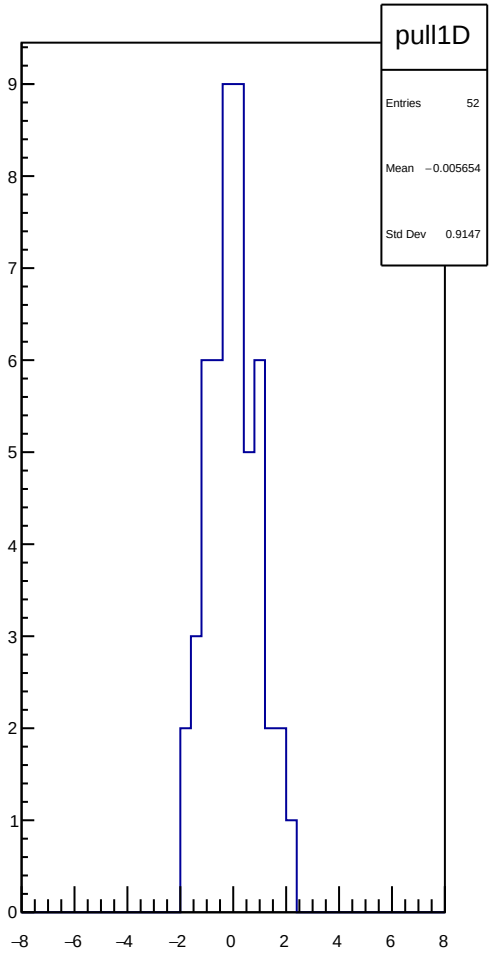

yield_sam7_rms vs run
χ² / ndf 1.971e+04 / 50
p0 0.1571 ± 0.0001554
0.3
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

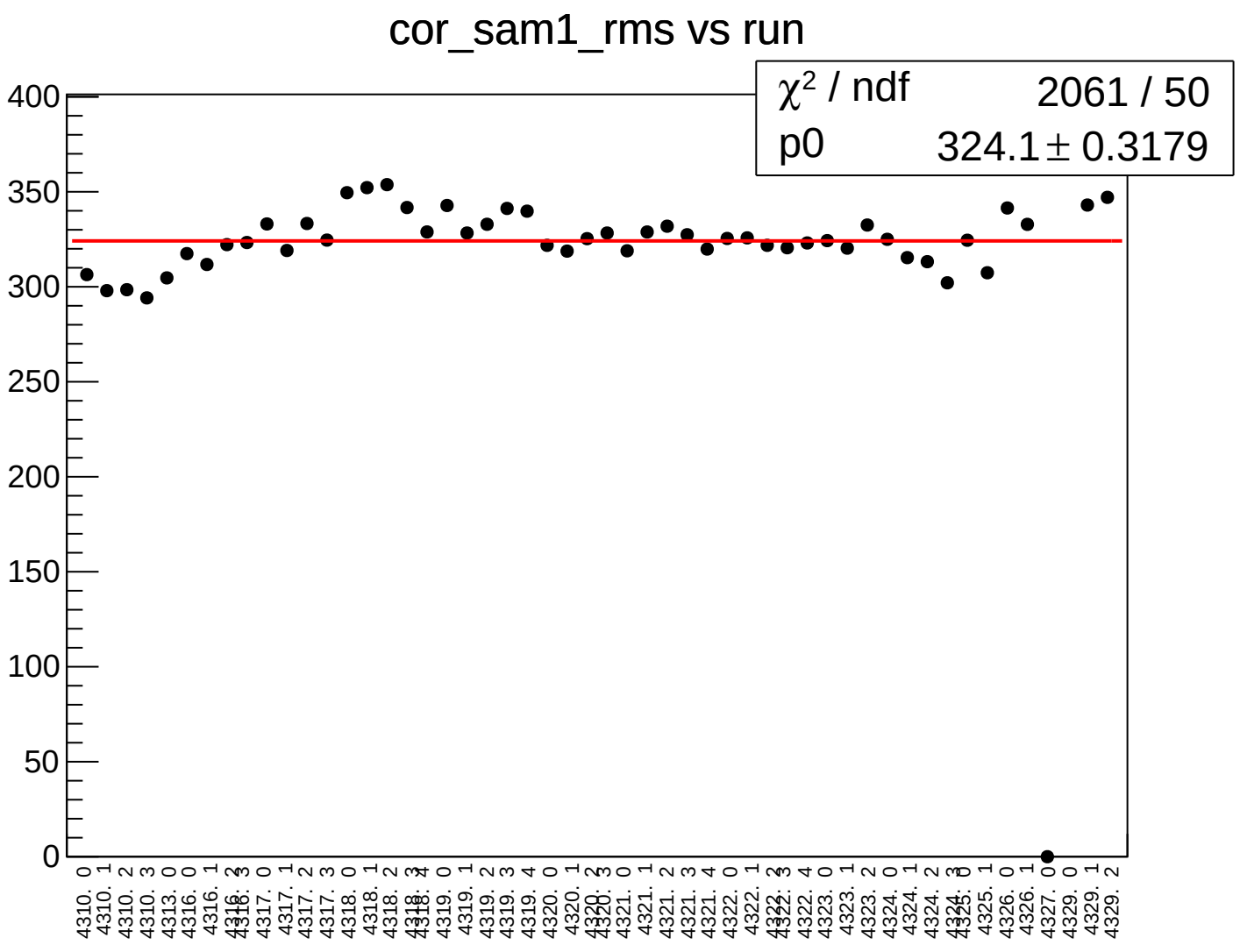

yield_sam8_mean vs run
χ² / ndf 3.677e+05 / 50
p0 7.798 ± 0.000112
0
1
2
3
4
5
6
7
8

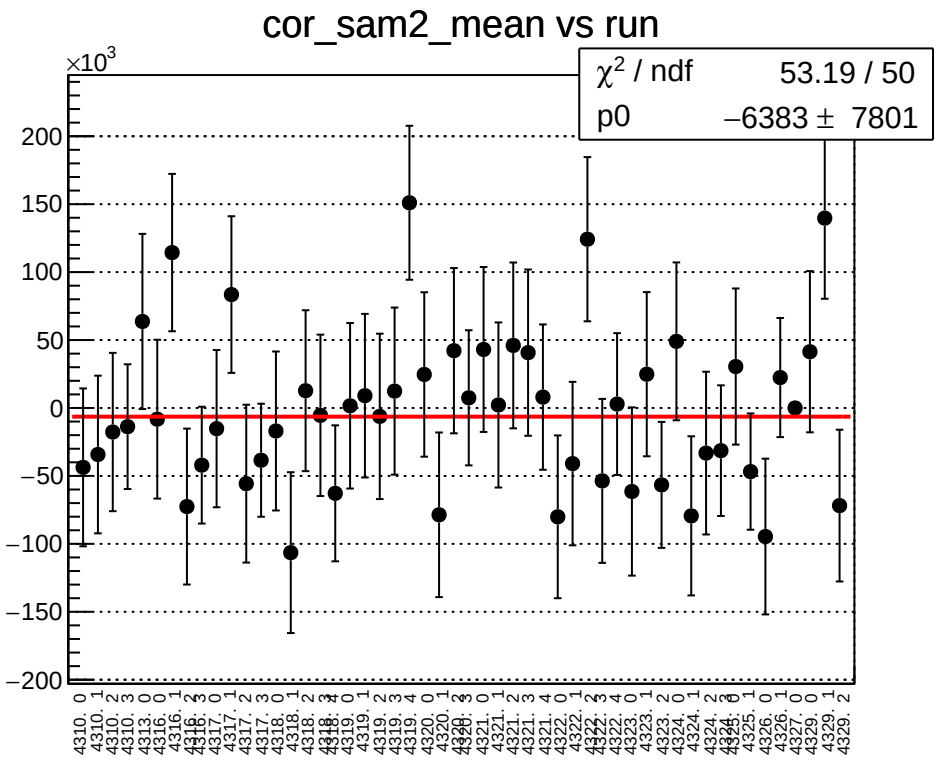

pull1D
Entries 52
Mean 6.406
Std Dev 1.506
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

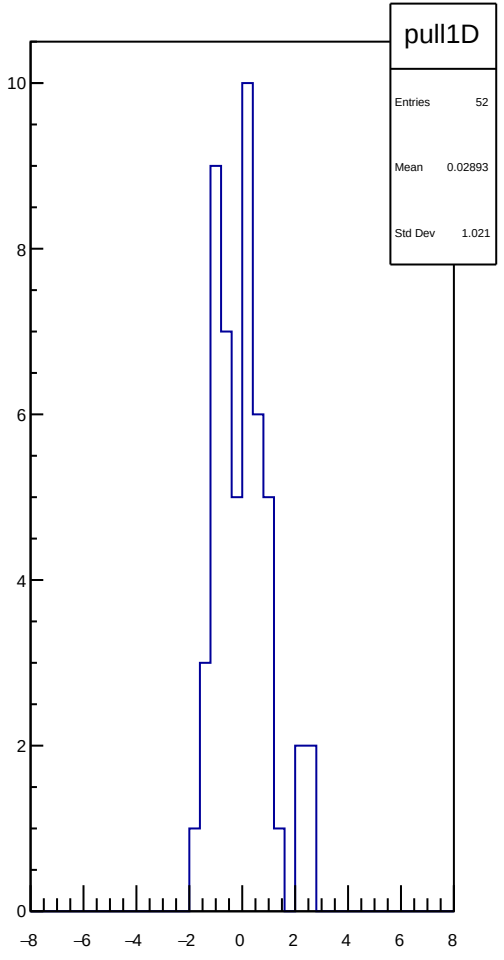

yield_sam8_rms vs run
χ² / ndf 6.601e+04 / 50
p0 0.07821 ± 7.918e–05
0.25
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

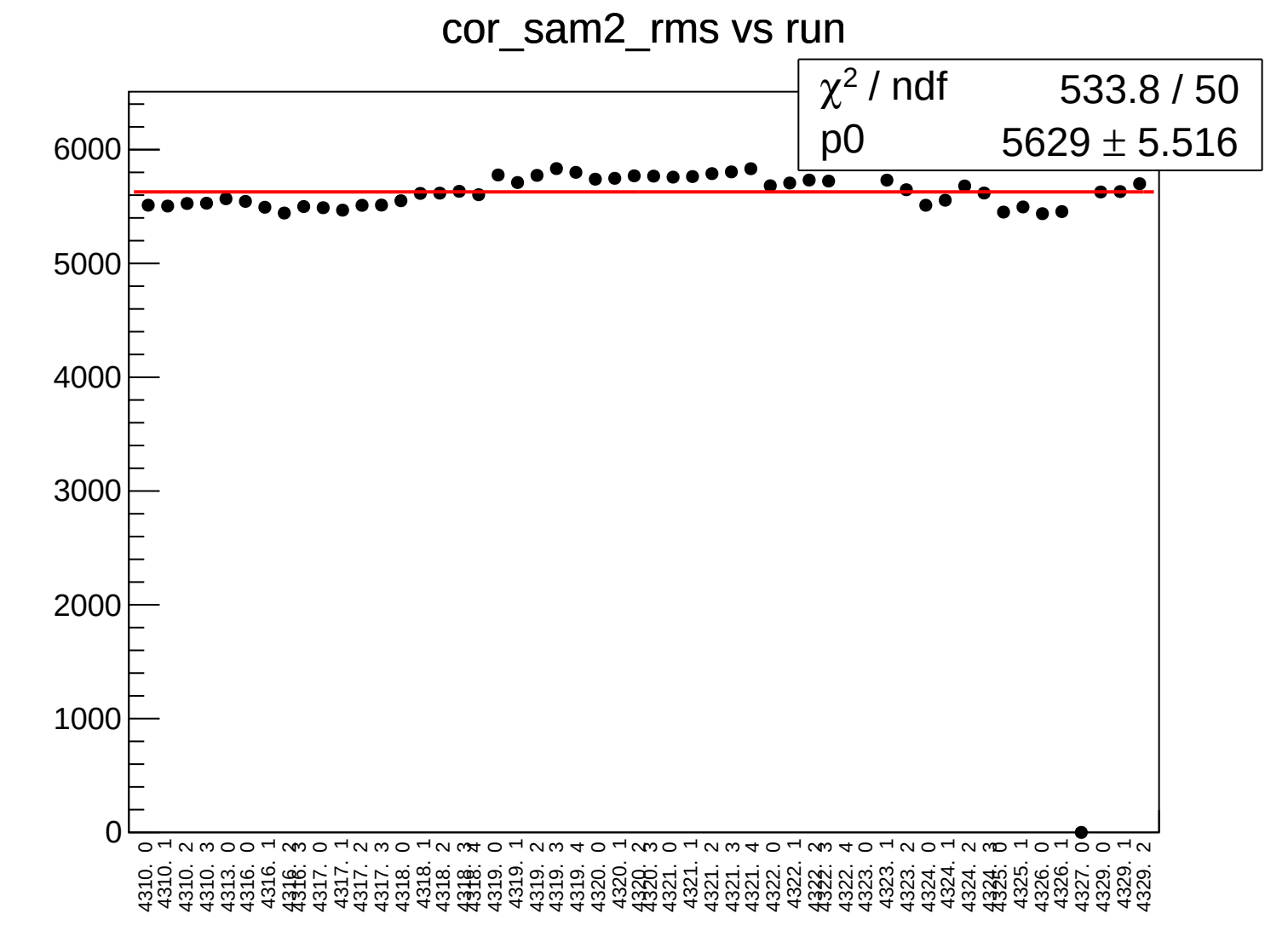

cor_sam1_mean vs run
χ² / ndf 42.67 / 50
p0 26.34 ± 449.6
10000
5000
0
−5000
−10000

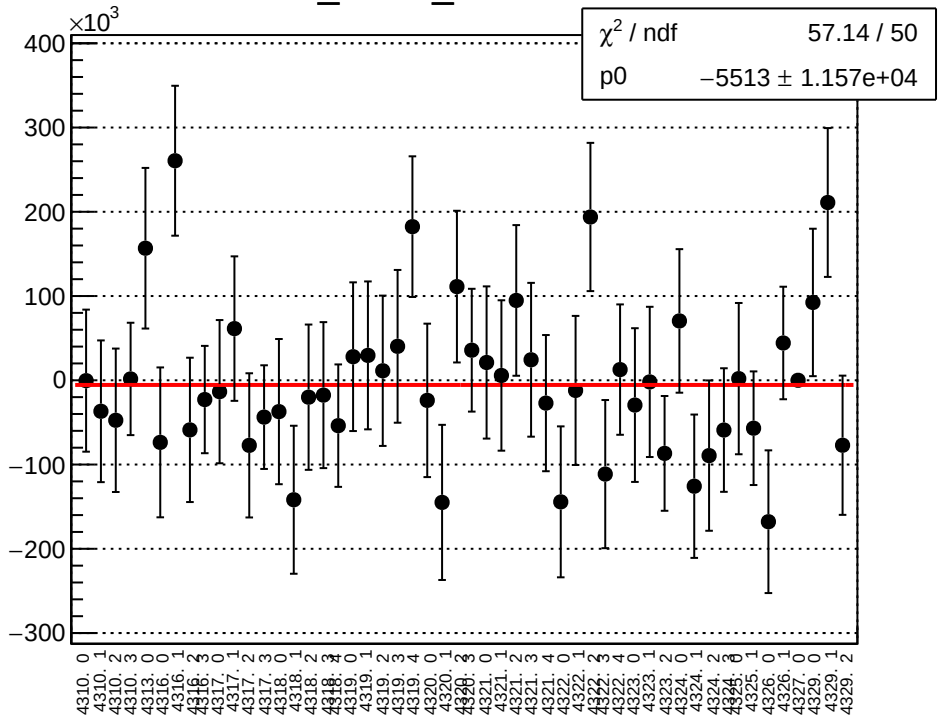

pull1D
Entries 52
Mean −0.005654
Std Dev 0.9147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

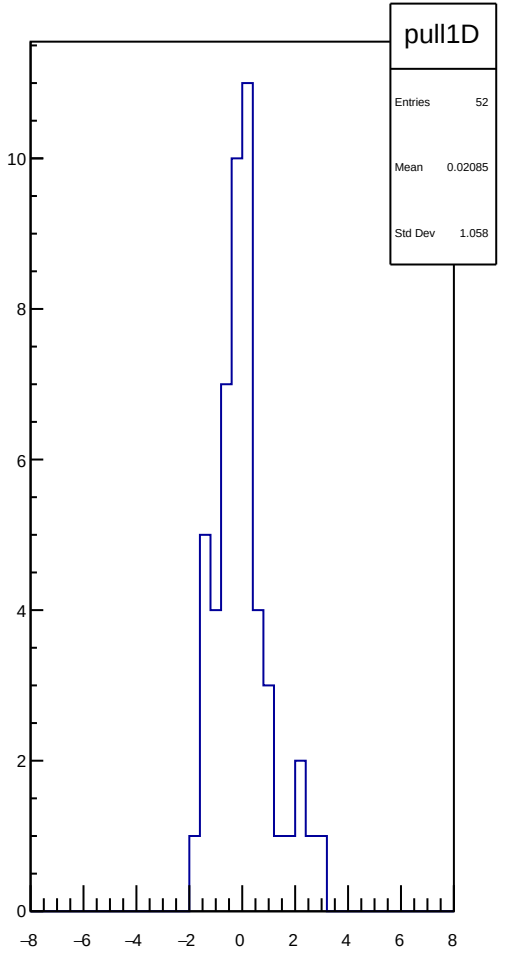

cor_sam1_rms vs run
χ² / ndf 2061 / 50
p0 324.1 ± 0.3179
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

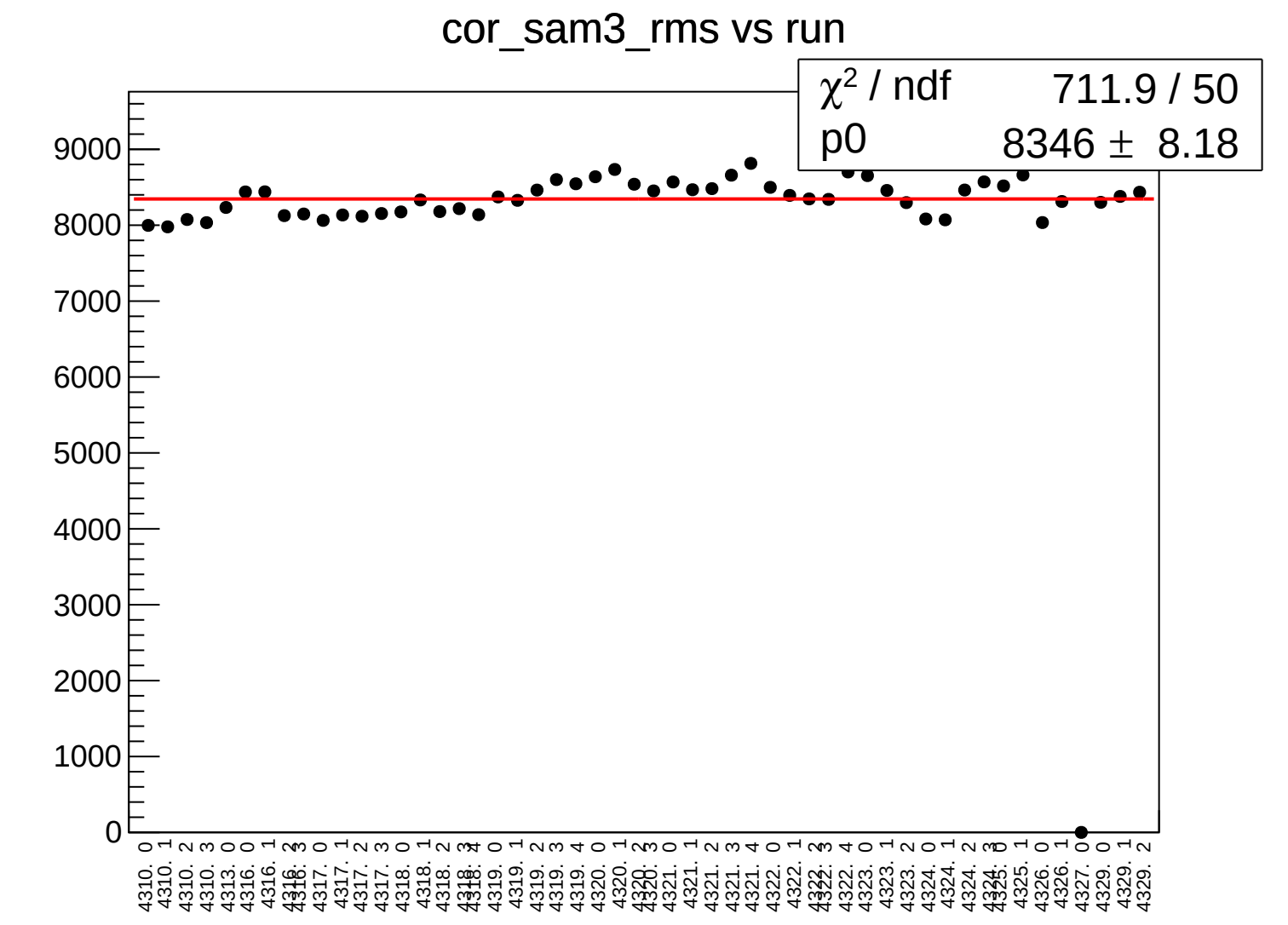

cor_sam2_mean vs run
×10^3
χ² / ndf 53.19 / 50
p0 −6383 ± 7801
200
150
100
50
0
−50
−100
−150
−200

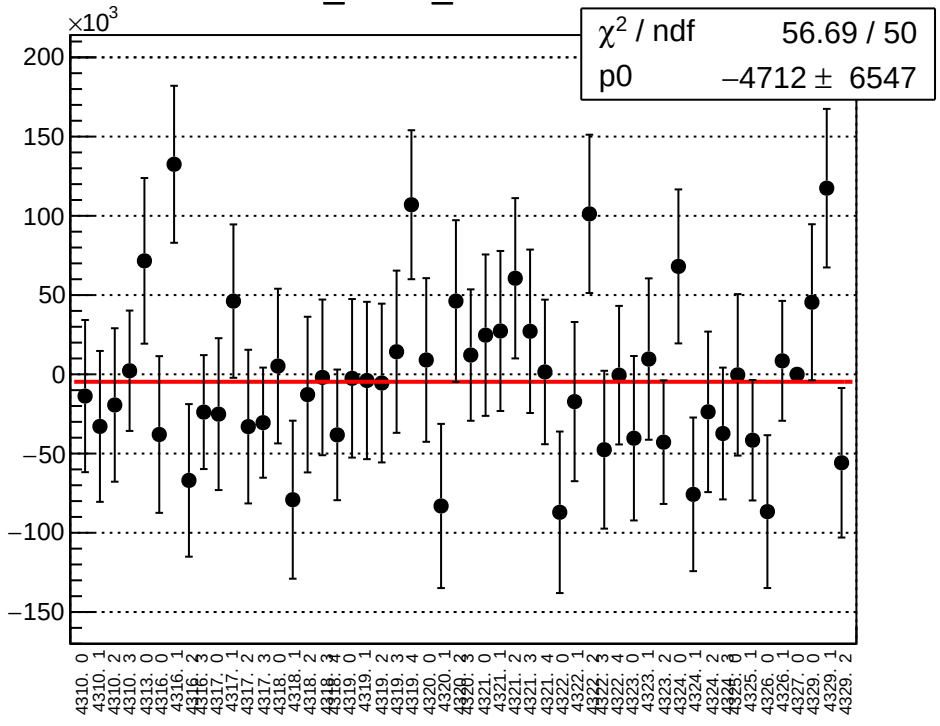

pull1D
Entries 52
Mean 0.02893
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

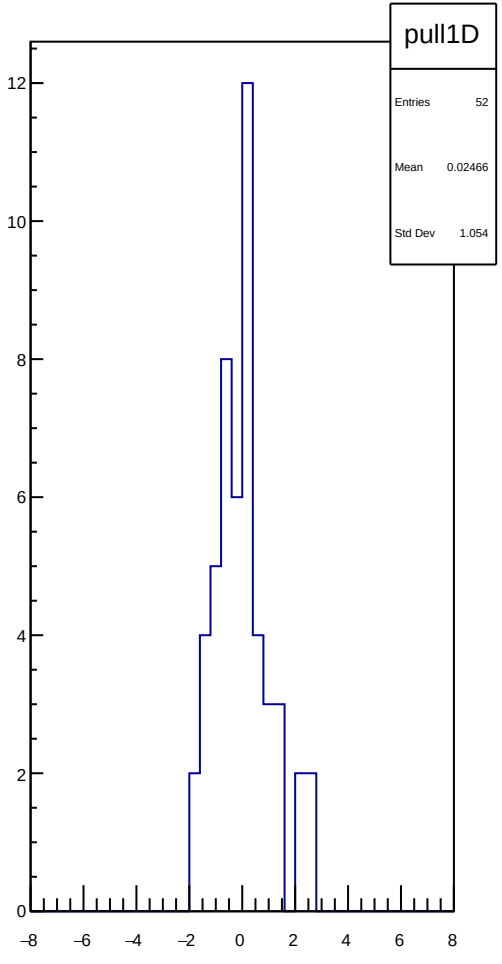

cor_sam2_rms vs run
χ² / ndf 533.8 / 50
p0 5629 ± 5.516
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

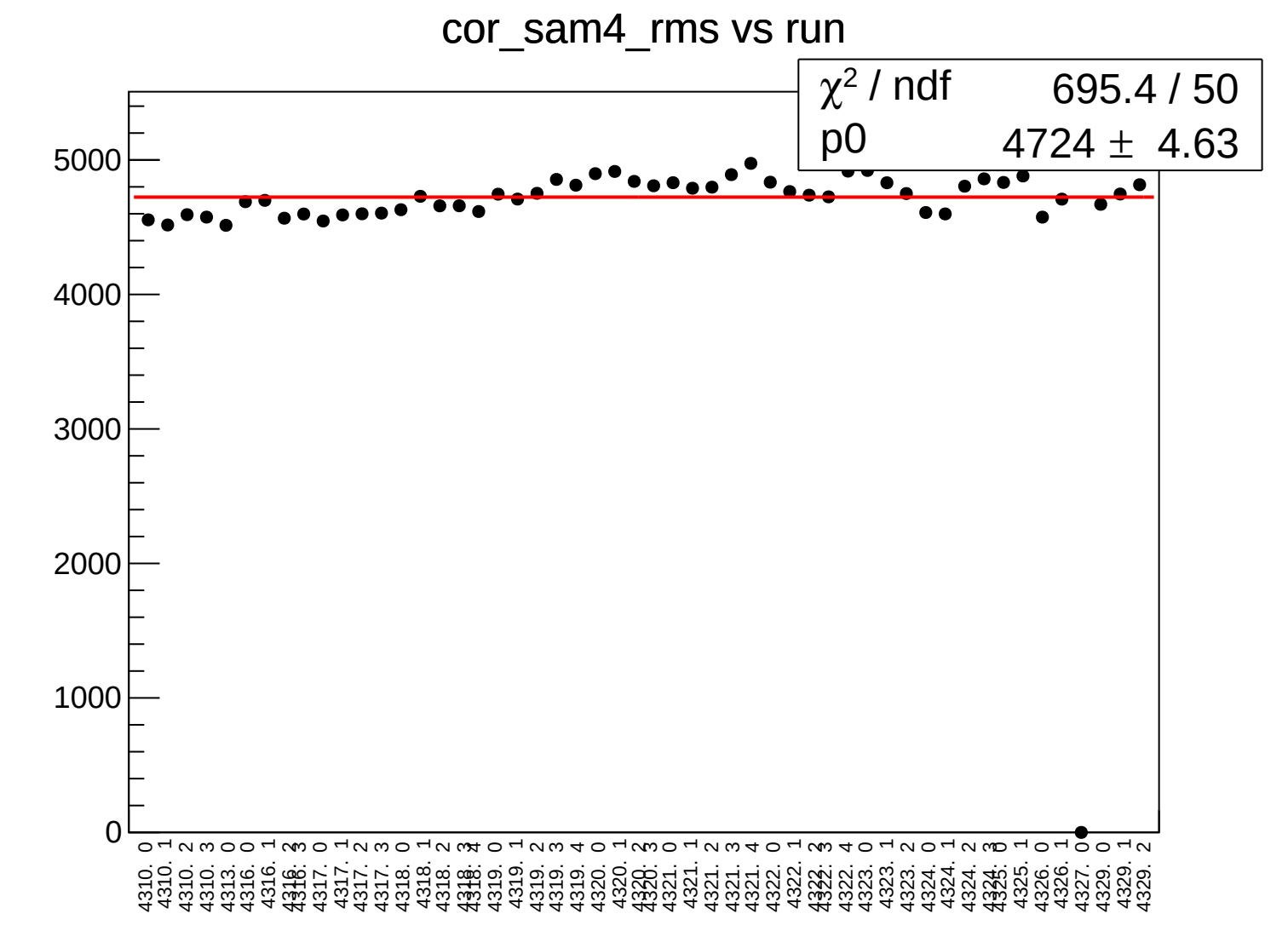

cor_sam3_mean vs run
×10^3
χ² / ndf 57.14 / 50
p0 −5513 ± 1.157e+04
400
300
200
100
0
−100
−200
−300

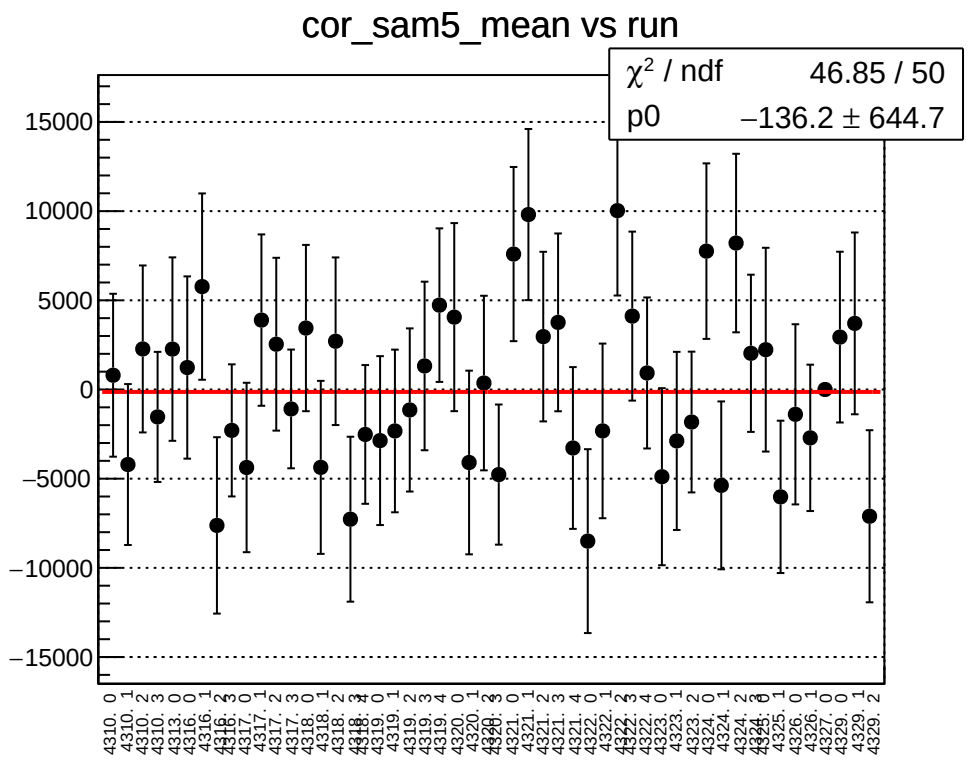

pull1D
Entries 52
Mean 0.02085
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

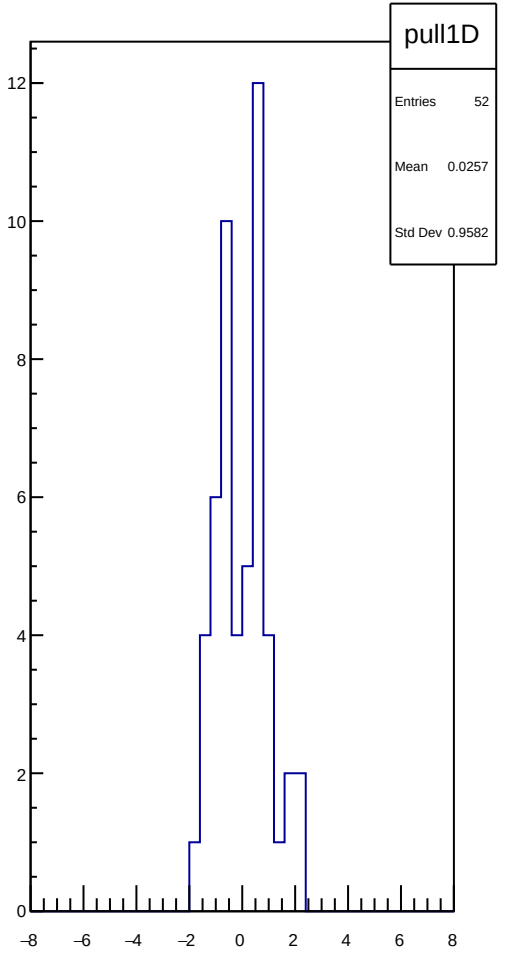

cor_sam3_rms vs run
χ² / ndf 711.9 / 50
p0 8346 ± 8.18
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

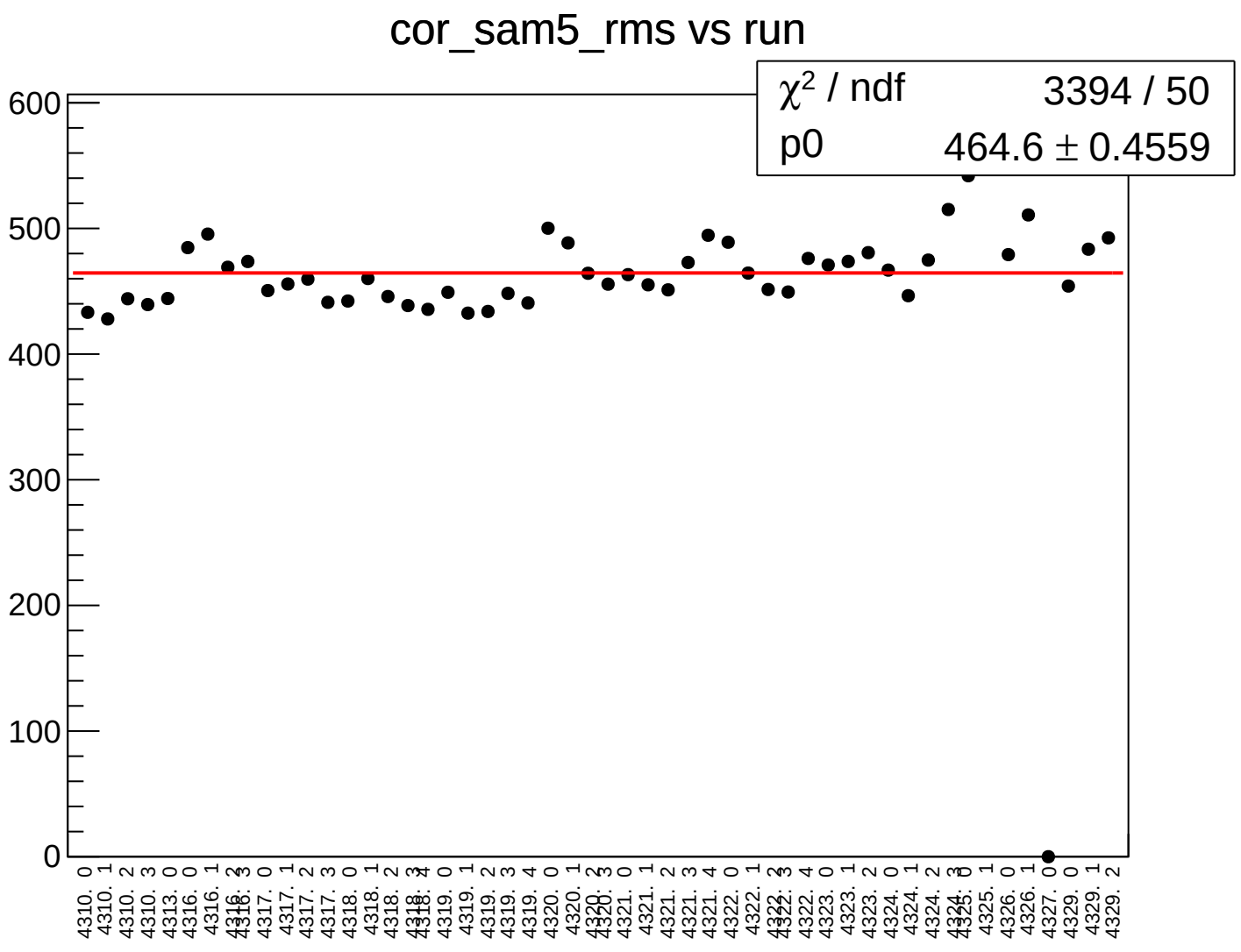

cor_sam4_mean vs run
×10^3
χ² / ndf 56.69 / 50
p0 −4712 ± 6547
200
150
100
50
0
−50
−100
−150

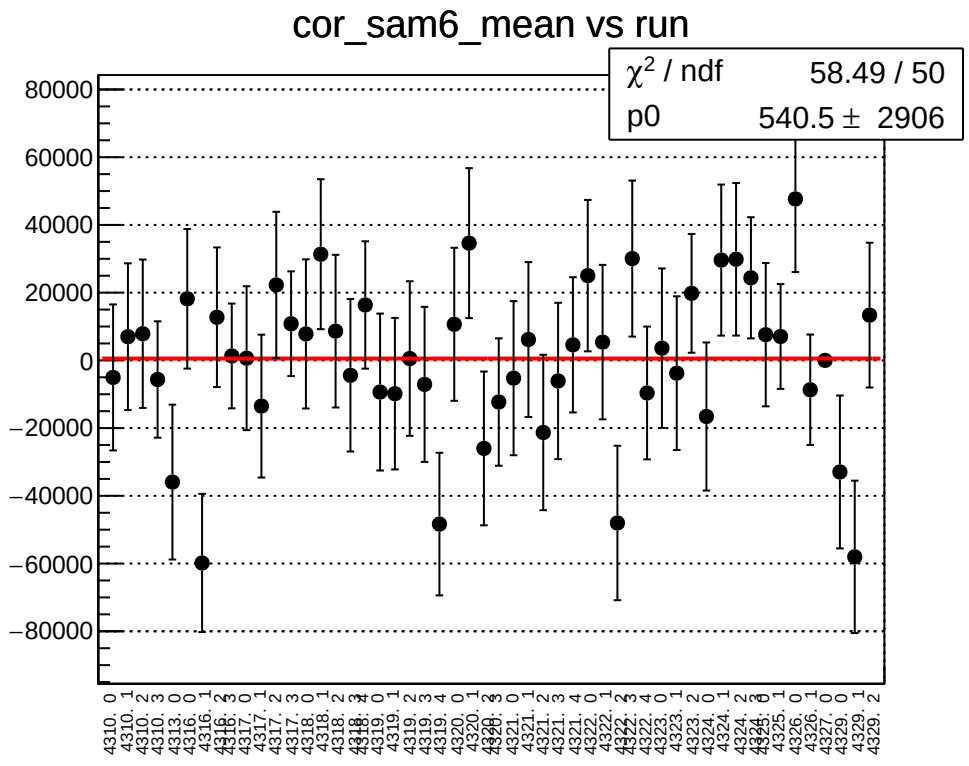

pull1D
Entries 52
Mean 0.02466
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

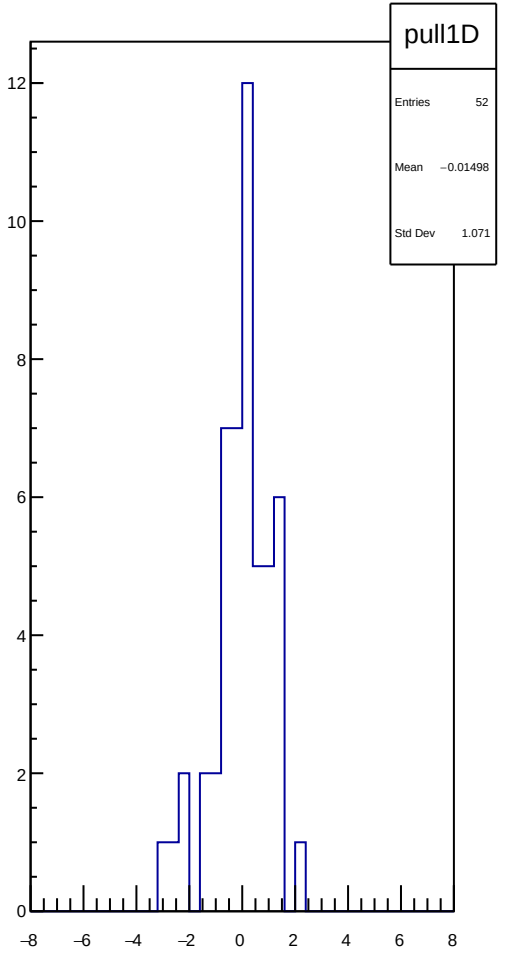

cor_sam4_rms vs run
χ² / ndf 695.4 / 50
p0 4724 ± 4.63
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

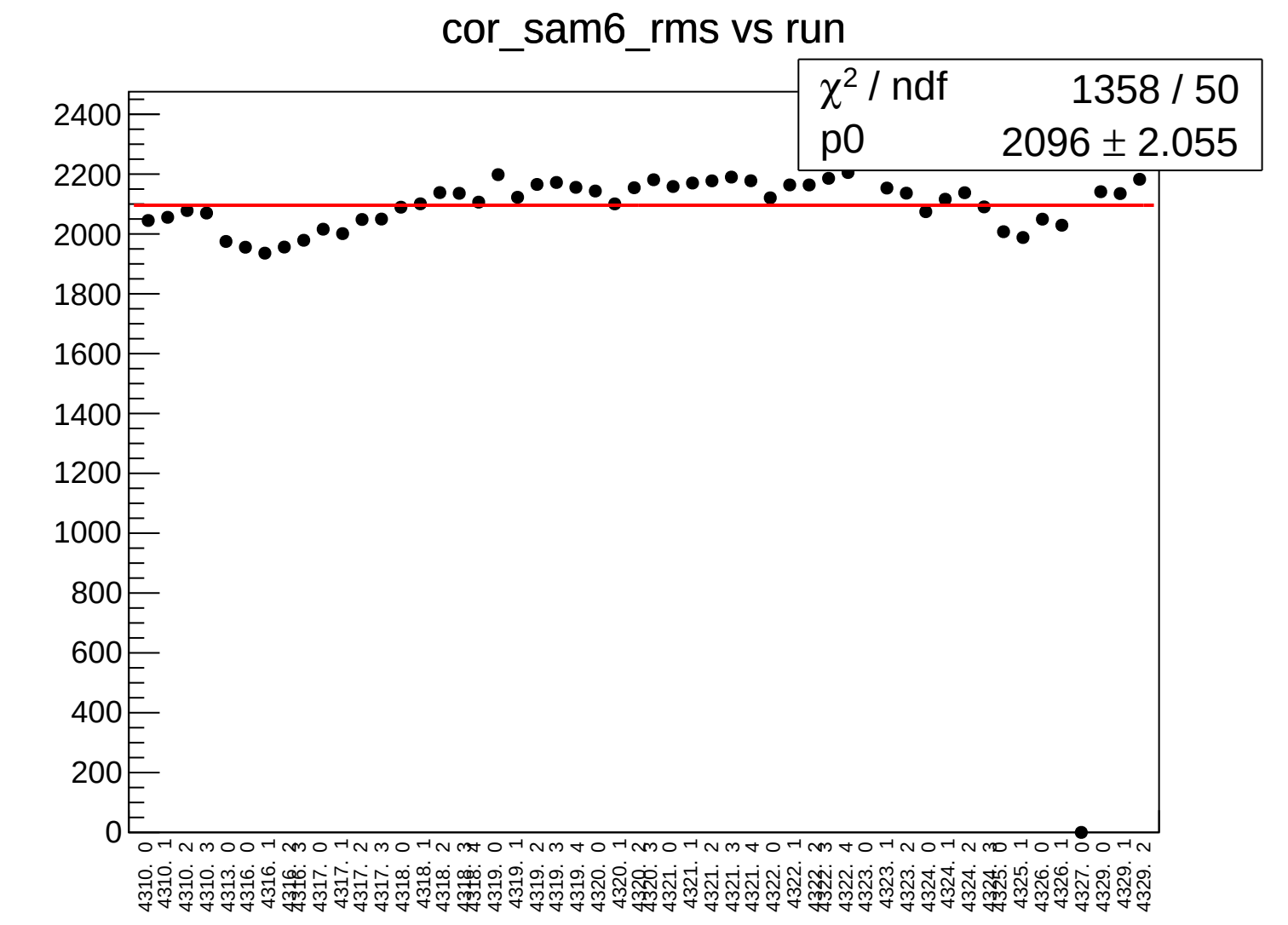

cor_sam5_mean vs run
χ² / ndf 46.85 / 50
p0 −136.2 ± 644.7
15000
10000
5000
0
−5000
−10000
−15000

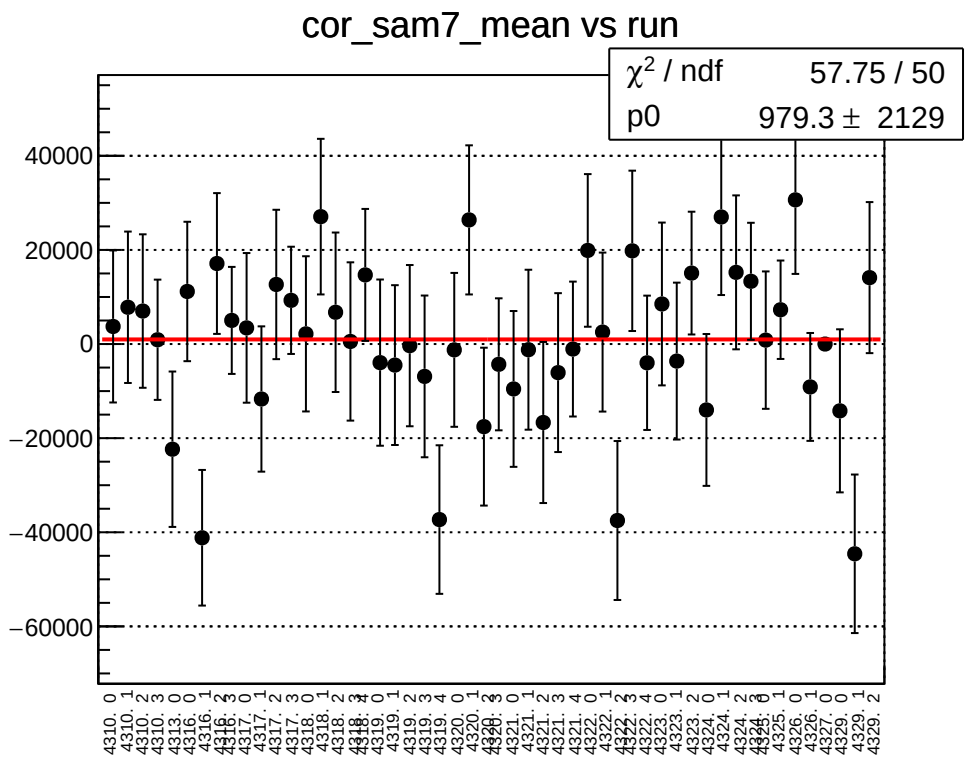

pull1D
Entries 52
Mean 0.0257
Std Dev 0.9582
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

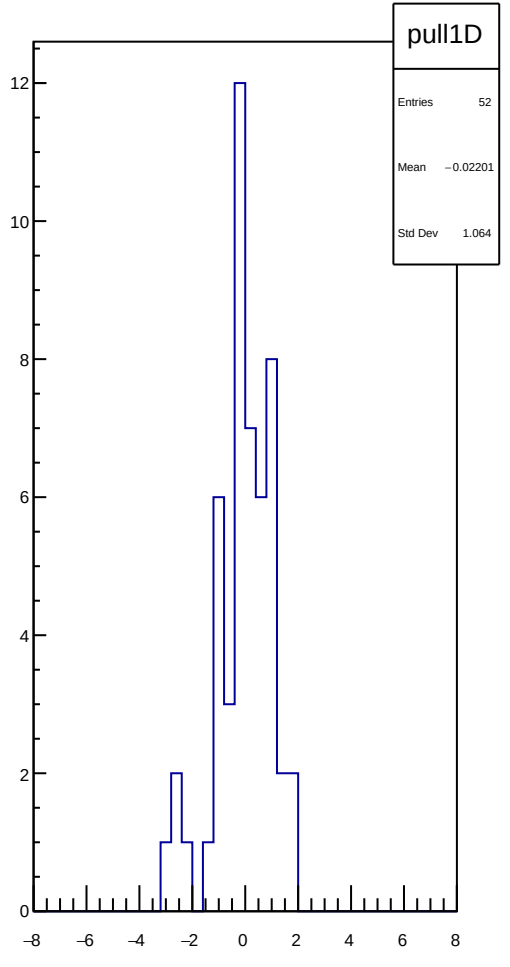

cor_sam5_rms vs run
χ² / ndf 3394 / 50
p0 464.6 ± 0.4559
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

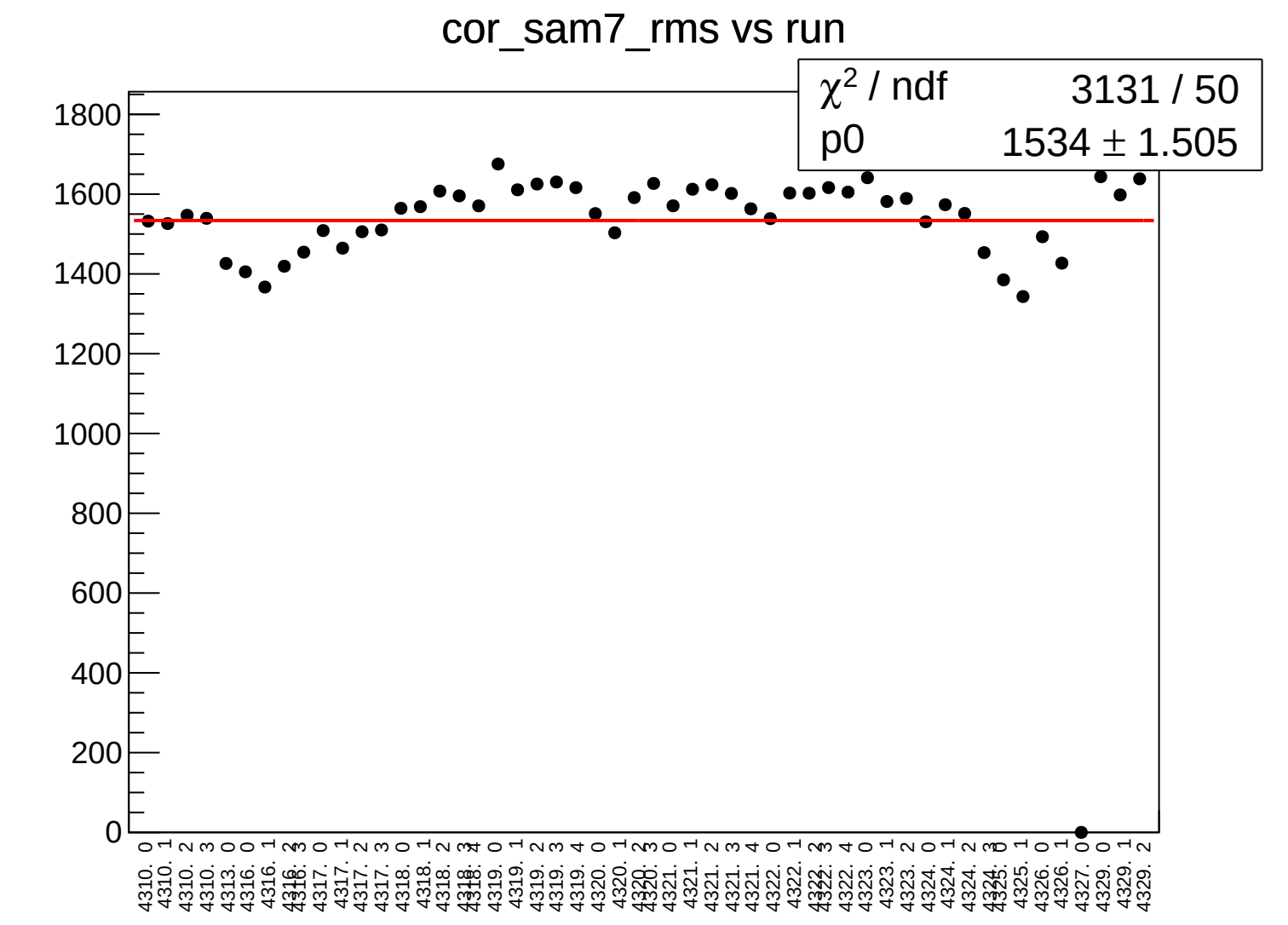

cor_sam6_mean vs run
χ^2 / ndf 58.49 / 50
p0 540.5 ± 2906
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000

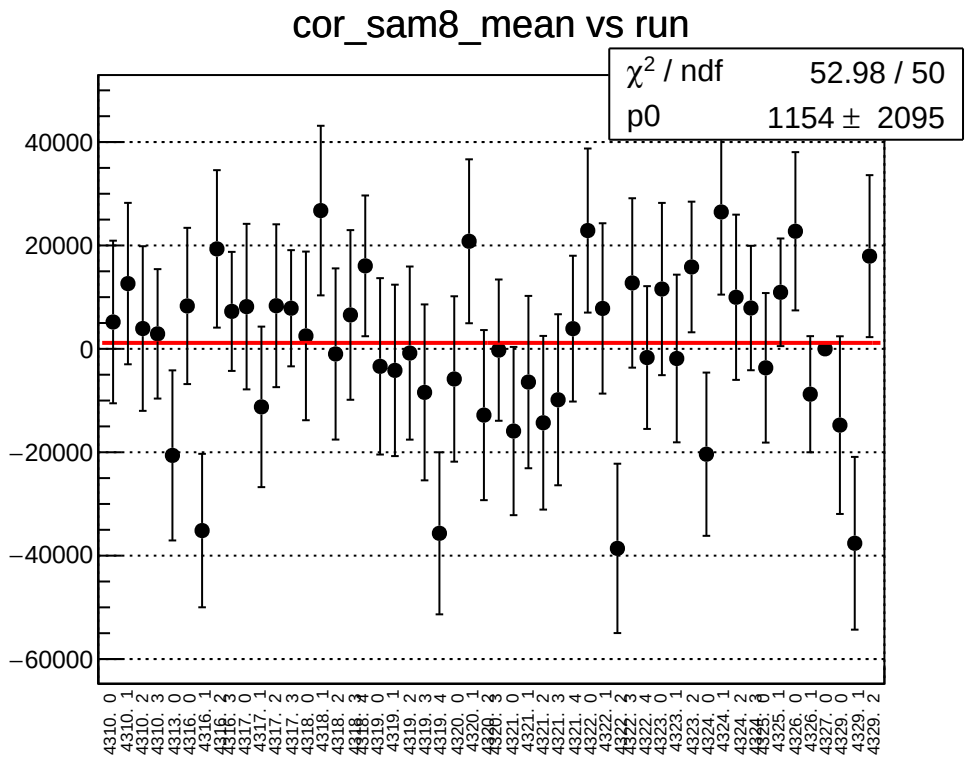

pull1D
Entries 52
Mean −0.01498
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

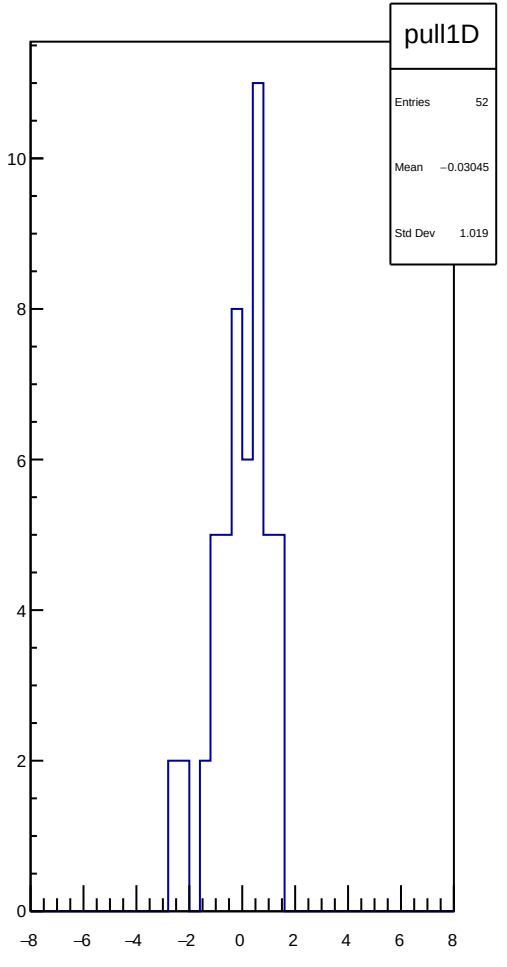

cor_sam6_rms vs run
χ² / ndf 1358 / 50
p0 2096 ± 2.055
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

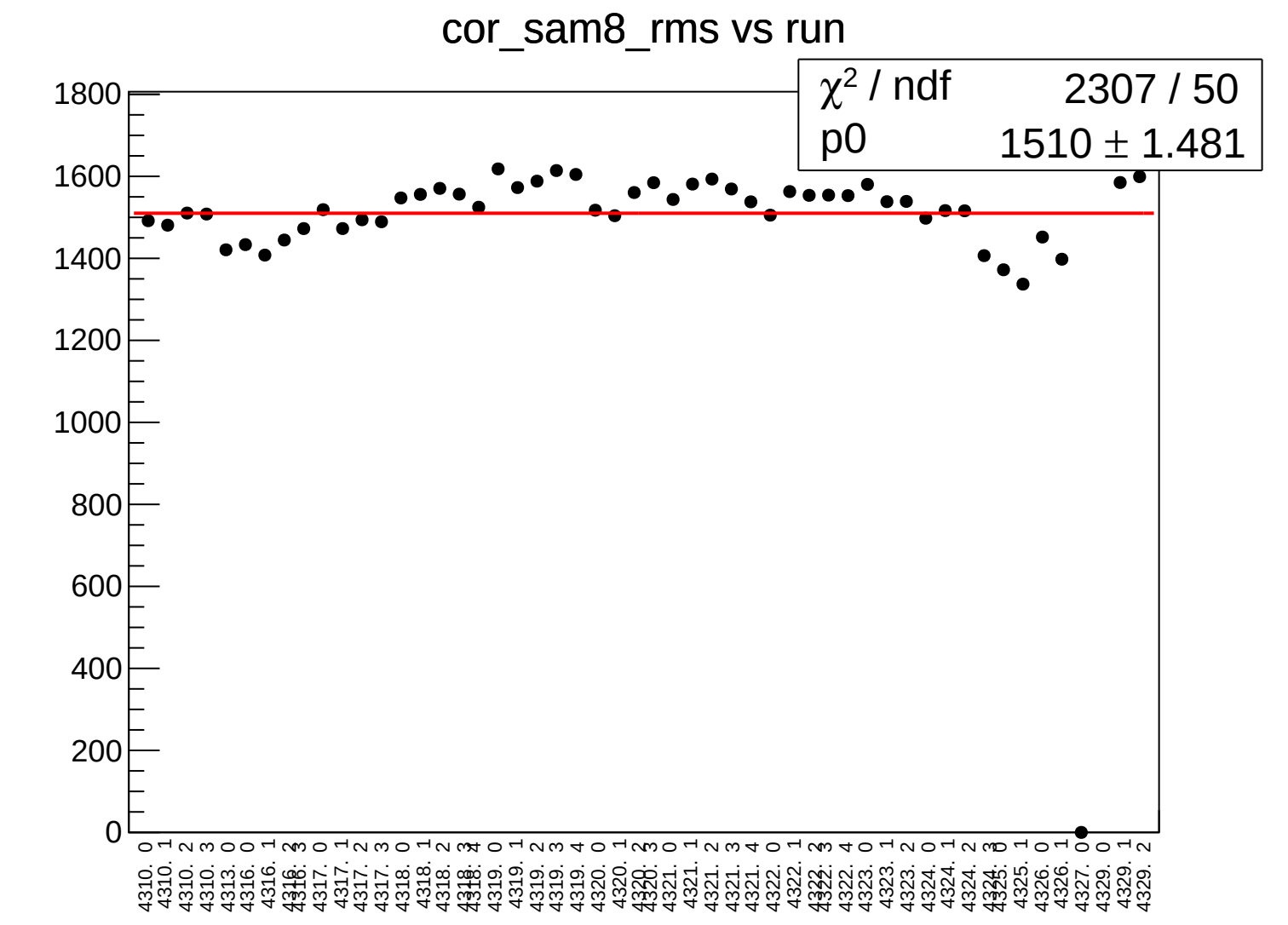

cor_sam7_mean vs run
χ² / ndf 57.75 / 50
p0 979.3 ± 2129
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

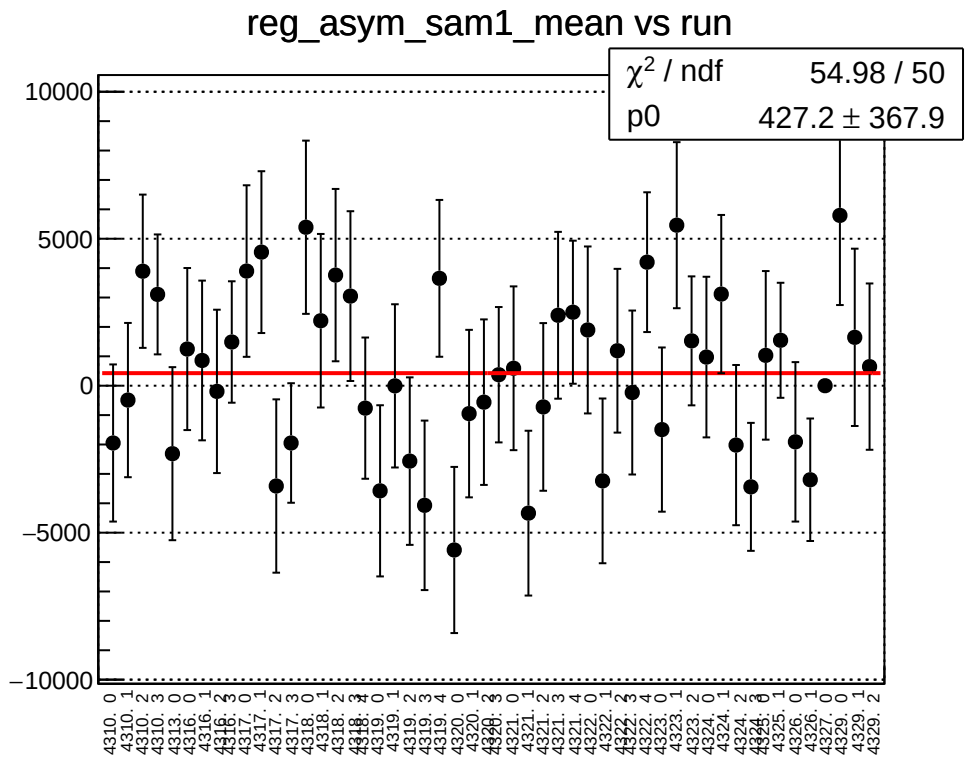

pull1D
Entries 52
Mean −0.02201
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

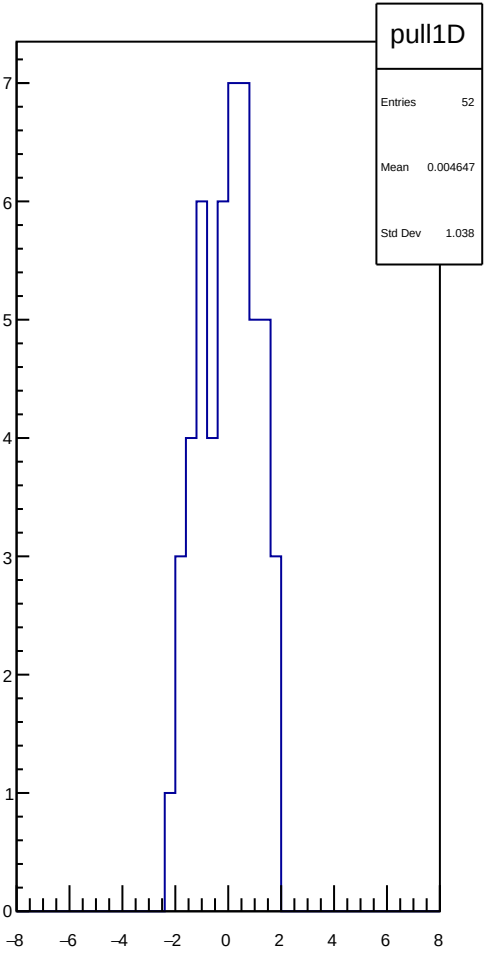

cor_sam7_rms vs run
χ² / ndf 3131 / 50
p0 1534 ± 1.505
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

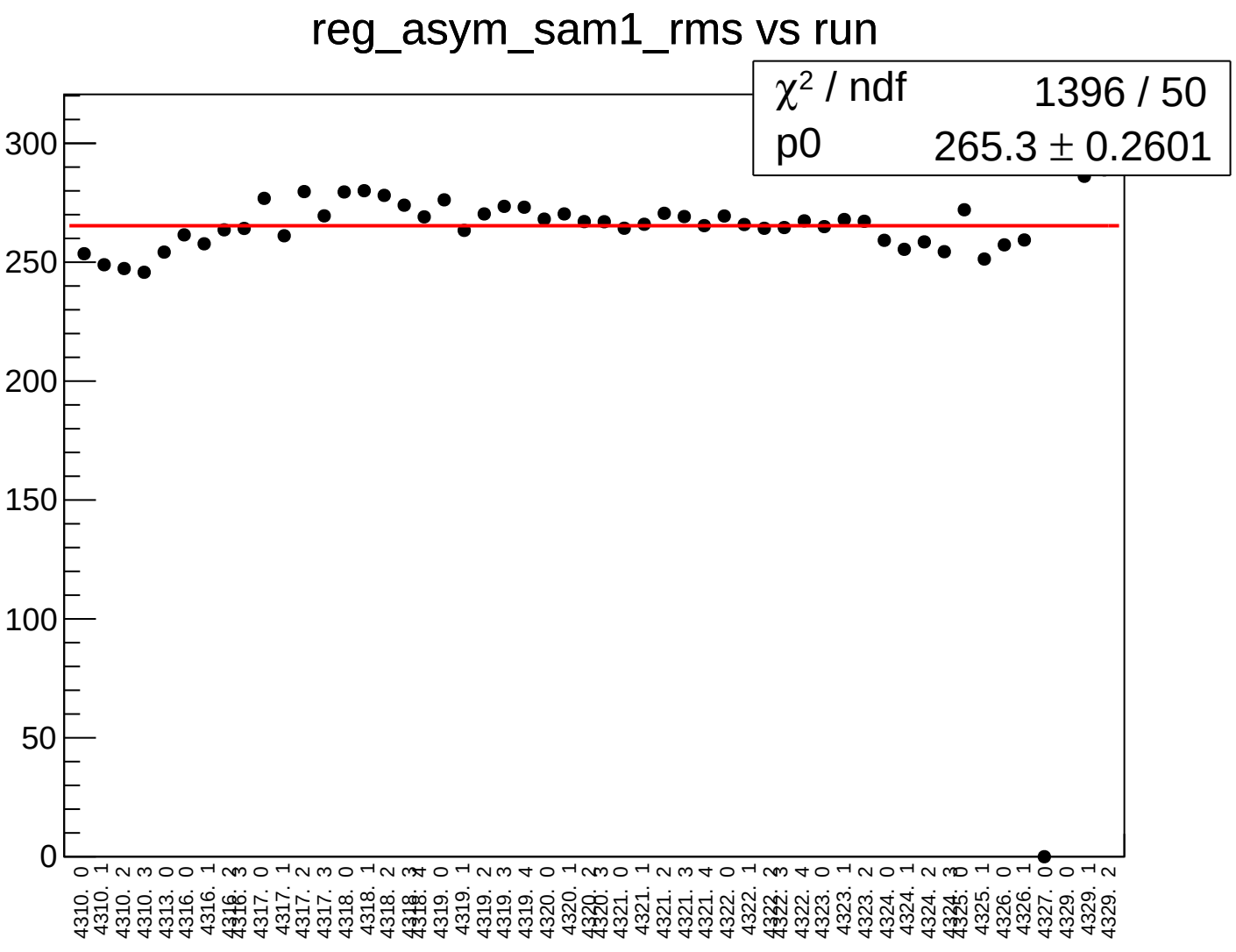

cor_sam8_mean vs run
χ² / ndf 52.98 / 50
p0 1154 ± 2095
40000
20000
0
−20000
−40000
−60000

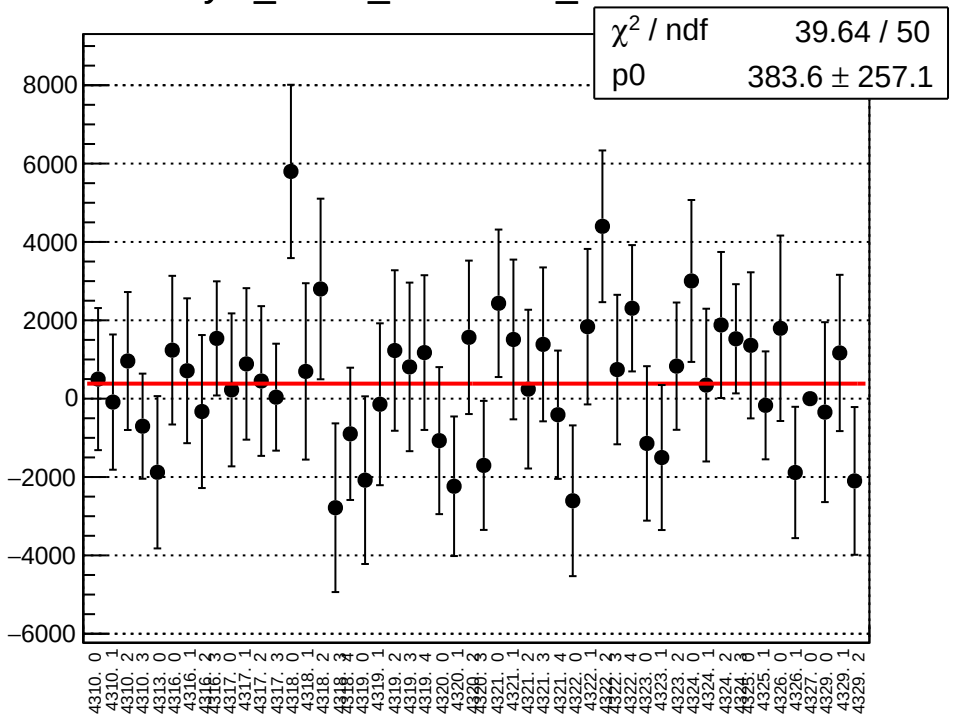

pull1D
Entries 52
Mean −0.03045
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

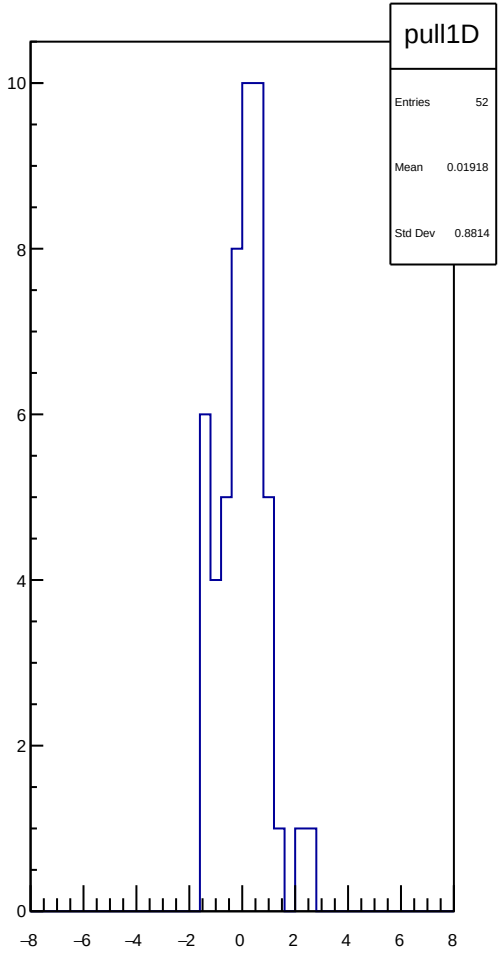

cor_sam8_rms vs run
χ² / ndf 2307 / 50
p0 1510 ± 1.481
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

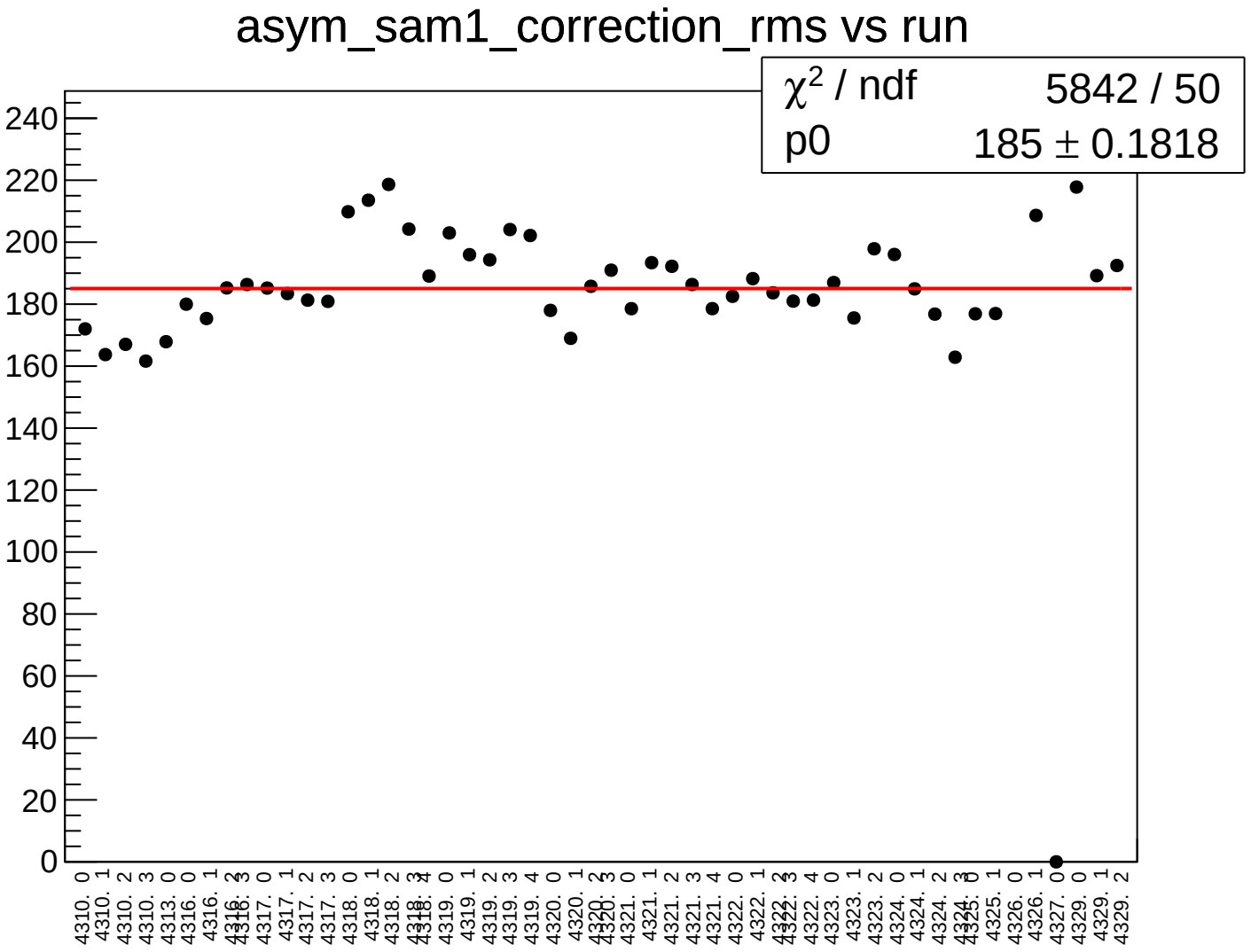

reg_asym_sam1_mean vs run
χ² / ndf 54.98 / 50
p0 427.2 ± 367.9
10000
5000
0
−5000
−10000

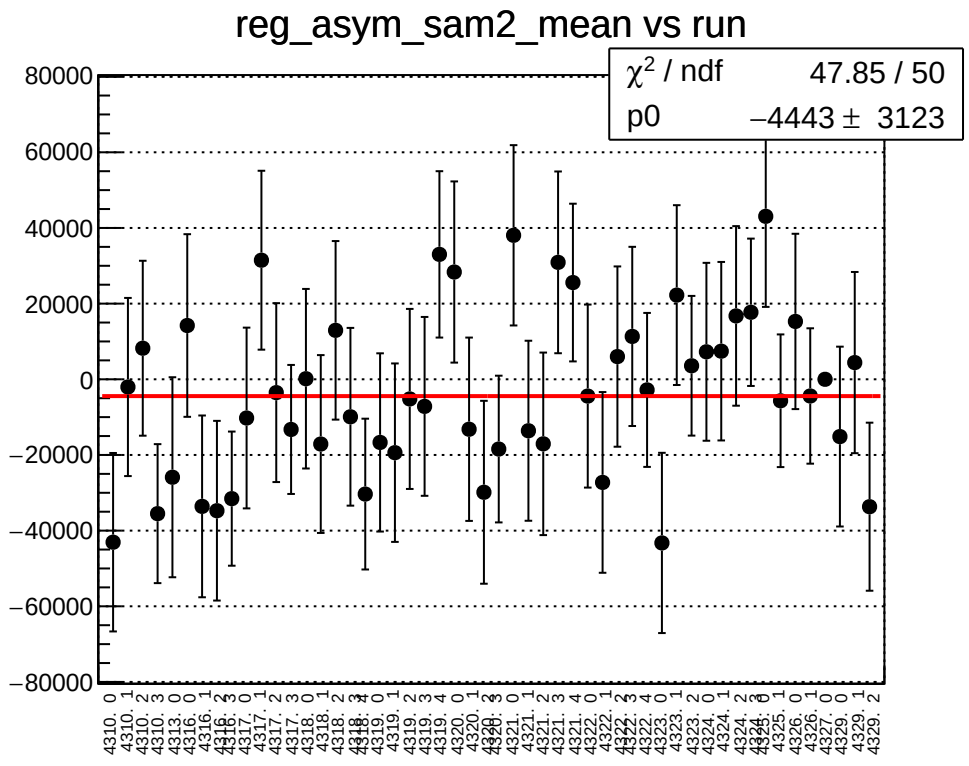

pull1D
Entries 52
Mean 0.004647
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

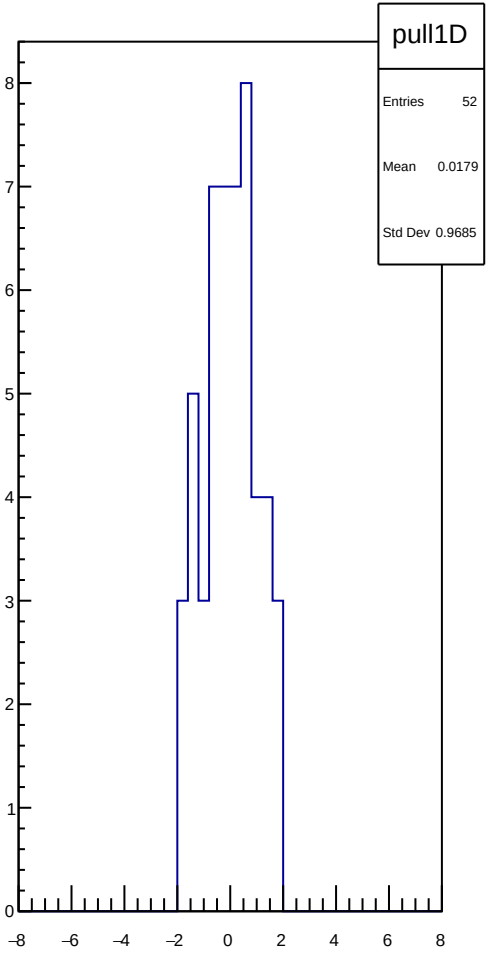

reg_asym_sam1_rms vs run
χ² / ndf 1396 / 50
p0 265.3 ± 0.2601
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

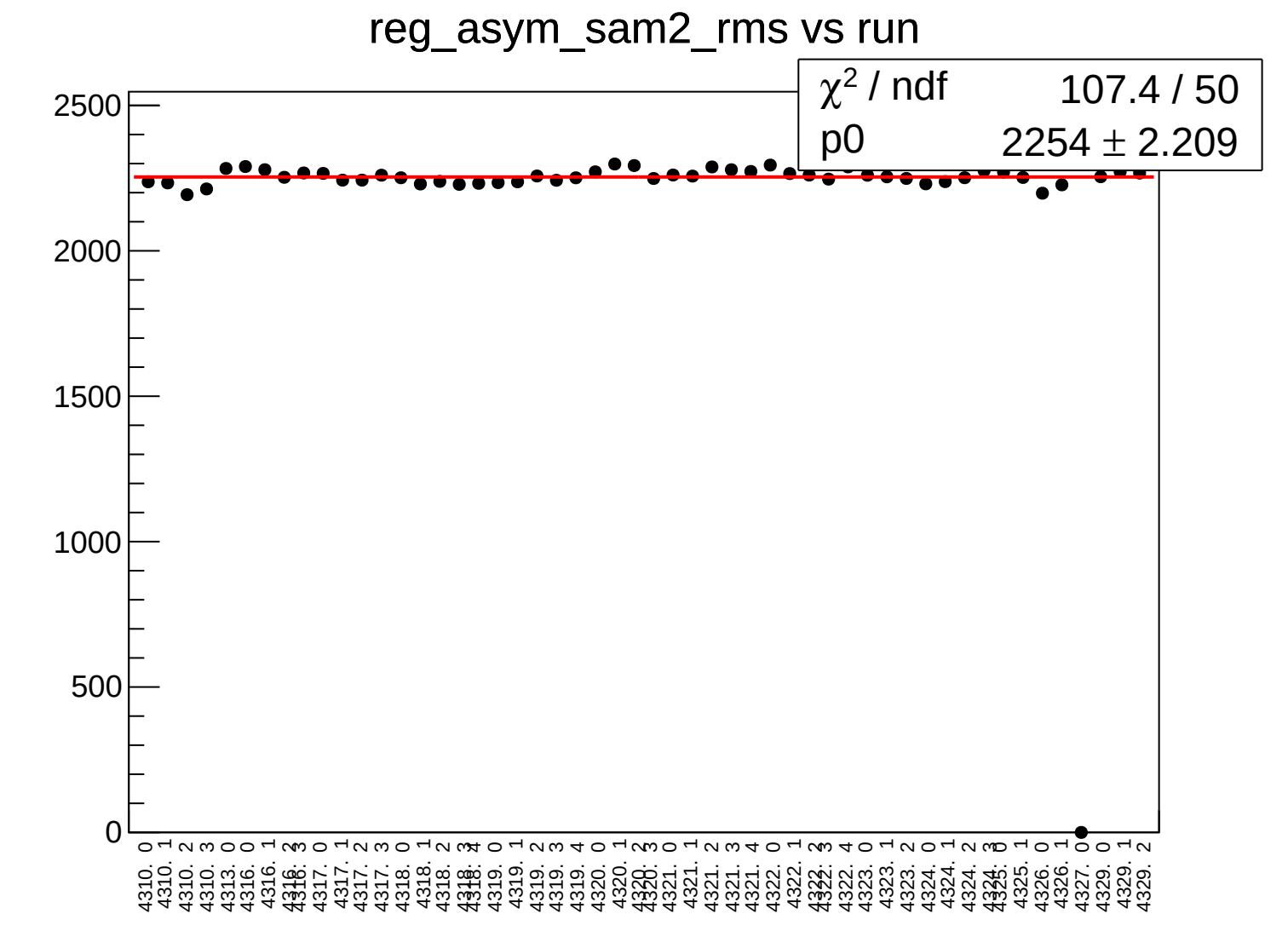

asym_sam1_correction_mean vs run
χ² / ndf 39.64 / 50
p0 383.6 ± 257.1
8000
6000
4000
2000
0
−2000
−4000
−6000


pull1D
Entries 52
Mean 0.01918
Std Dev 0.8814
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_correction_rms vs run
χ² / ndf 5842 / 50
p0 185 ± 0.1818
240
220
200
180
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_sam2_mean vs run
χ² / ndf 47.85 / 50
p0 −4443 ± 3123
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000


pull1D
Entries 52
Mean 0.0179
Std Dev 0.9685
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_rms vs run
χ² / ndf 107.4 / 50
p0 2254 ± 2.209
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
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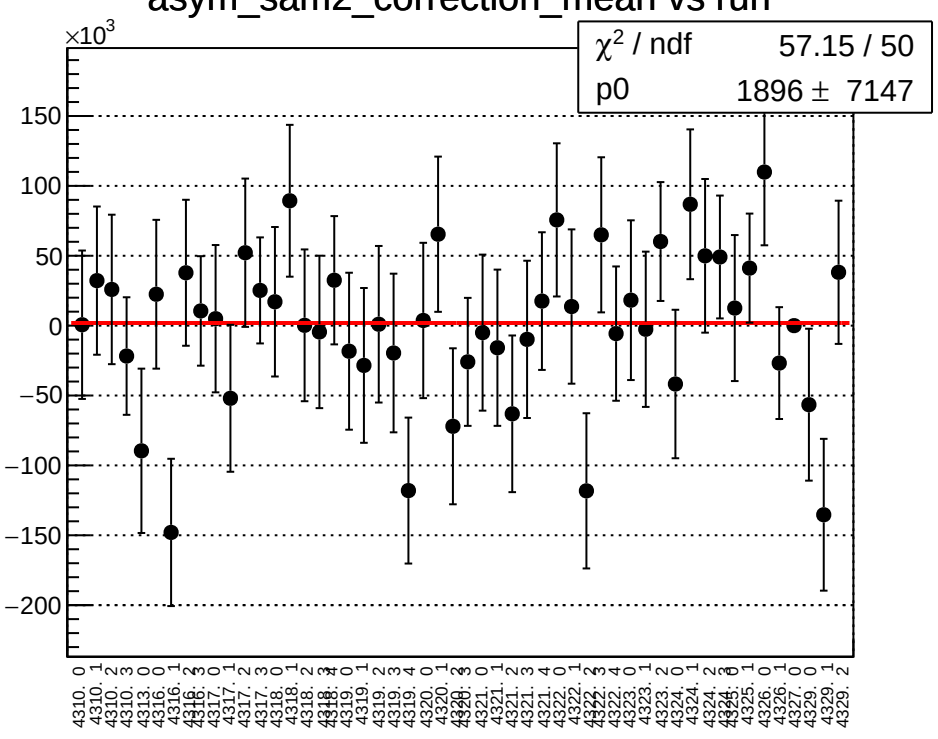
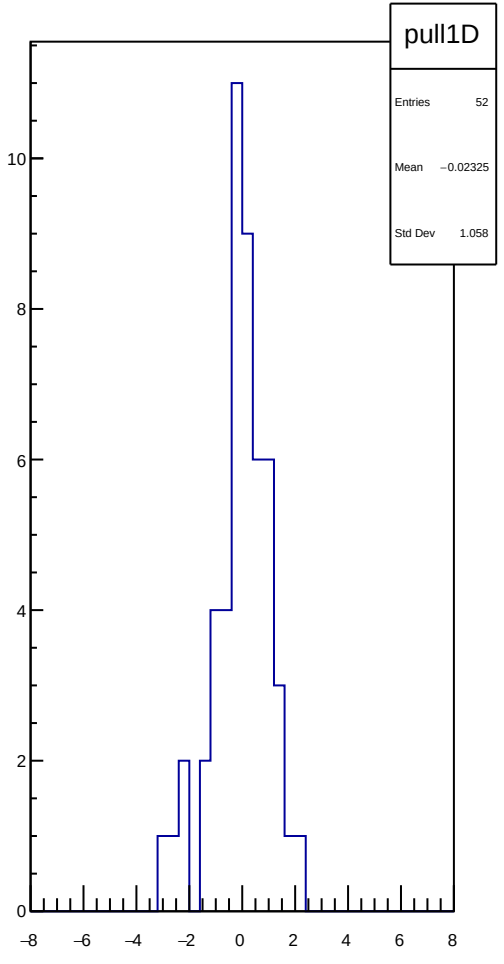
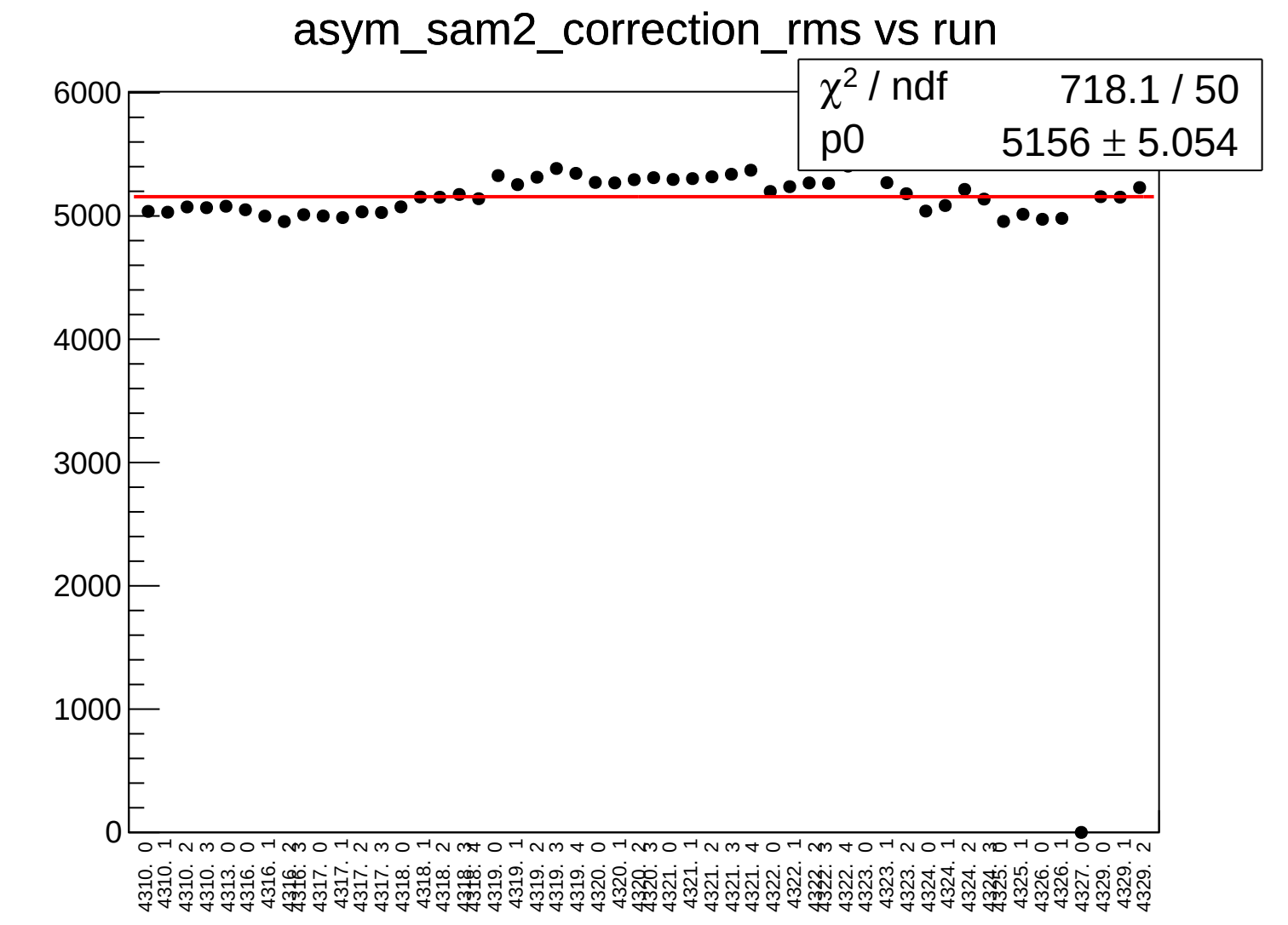
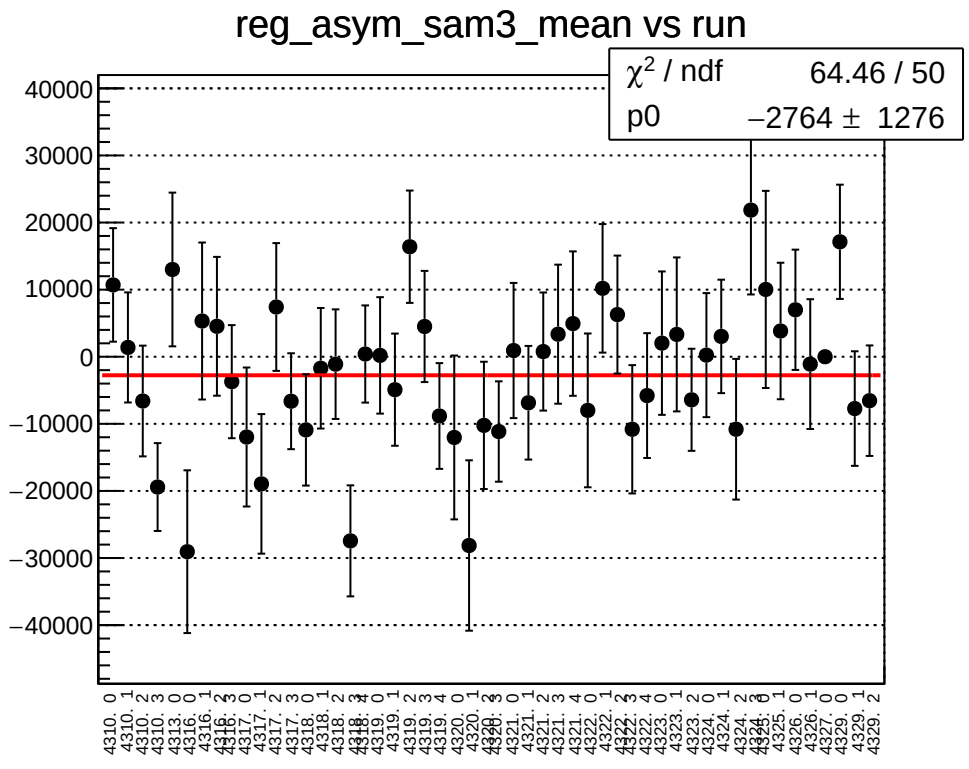
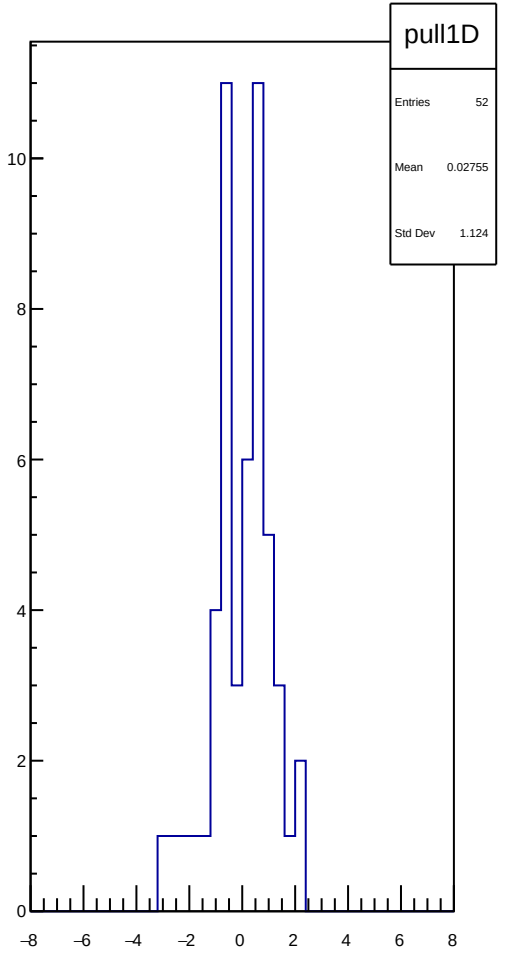
4329. 1
4329. 2

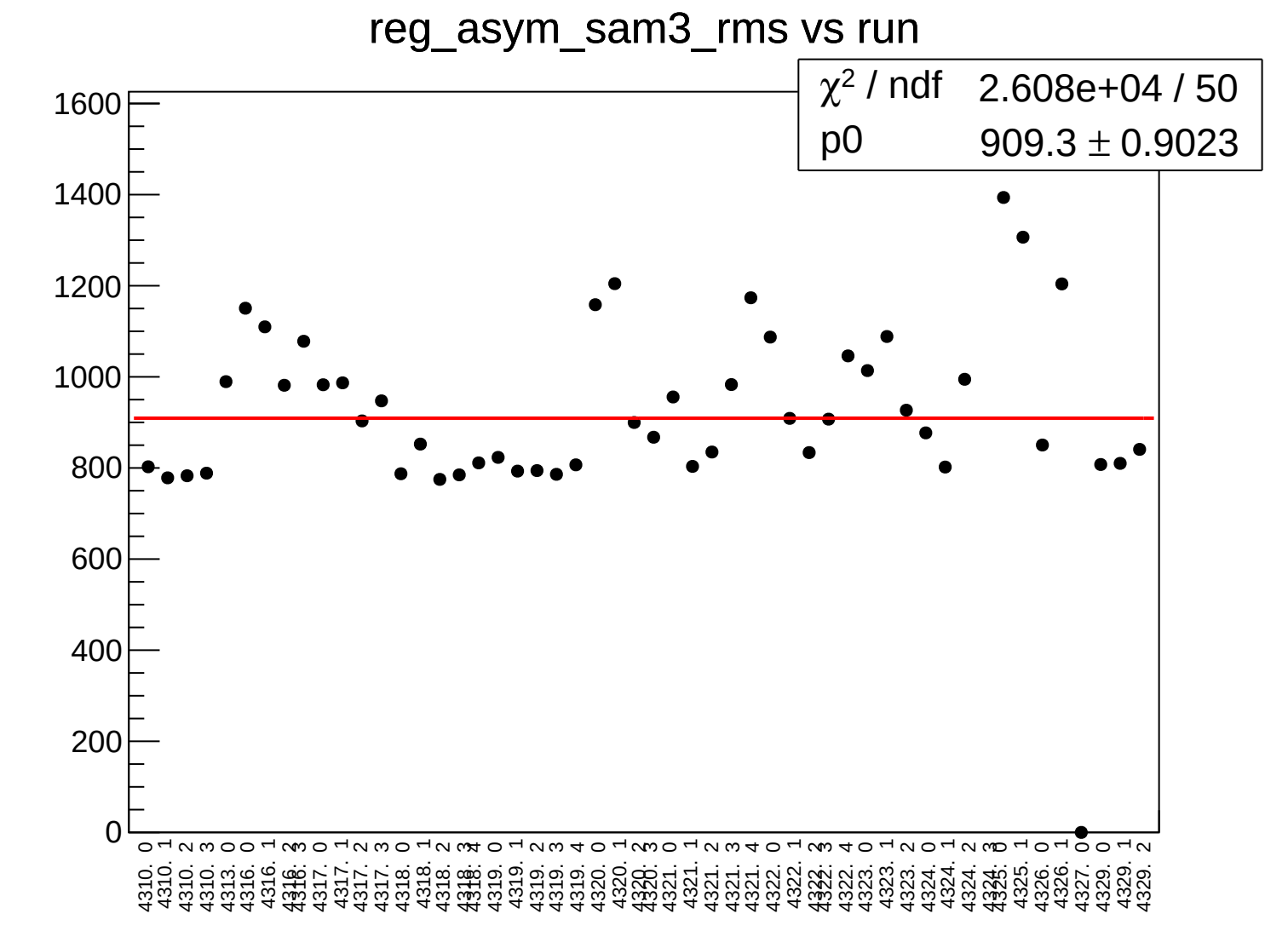

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 57.15 / 50
p0 1896 ± 7147
150
100
50
0
−50
−100
−150
−200

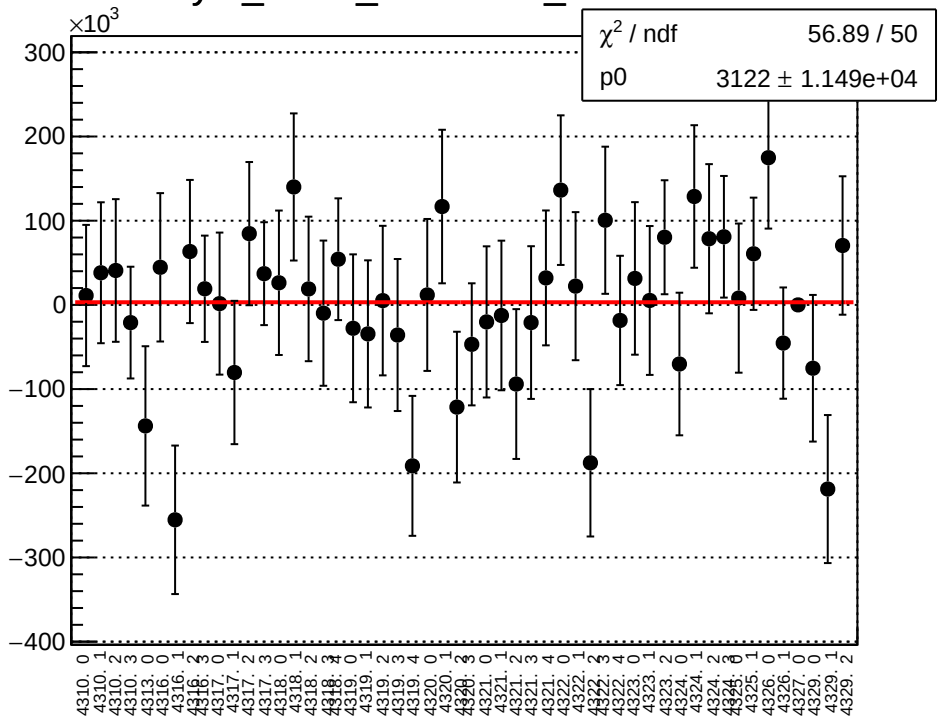

pull1D
Entries 52
Mean −0.02325
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

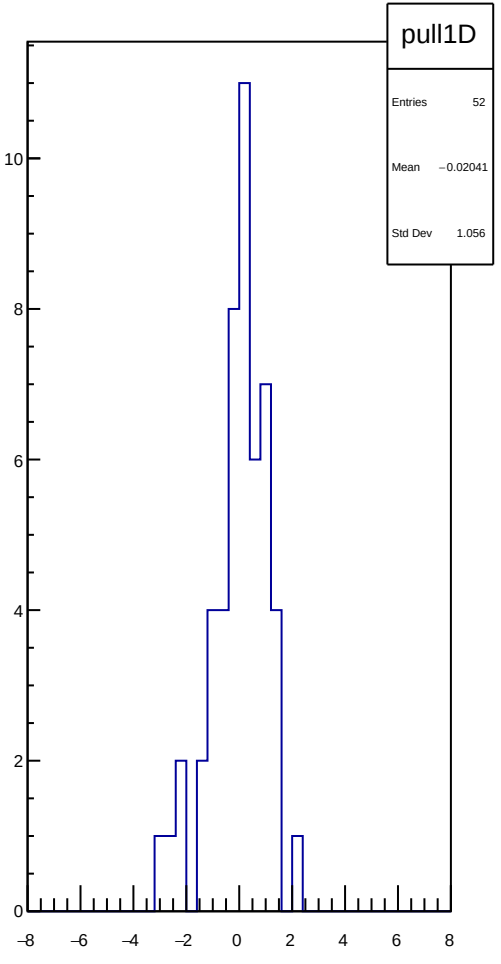

asym_sam2_correction_rms vs run
χ² / ndf 718.1 / 50
p0 5156 ± 5.054
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

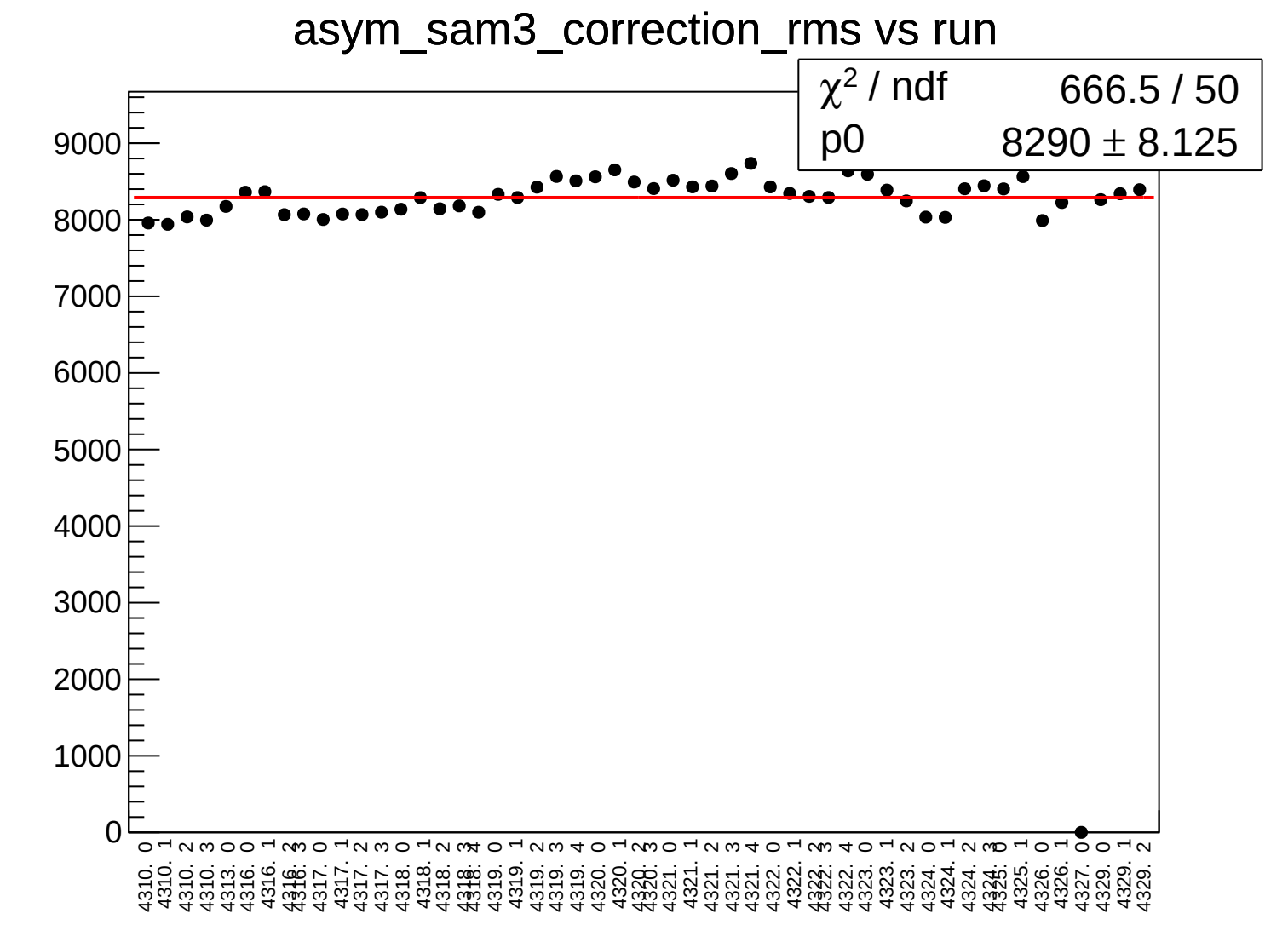

reg_asym_sam3_mean vs run
χ² / ndf 64.46 / 50
p0 −2764 ± 1276
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000

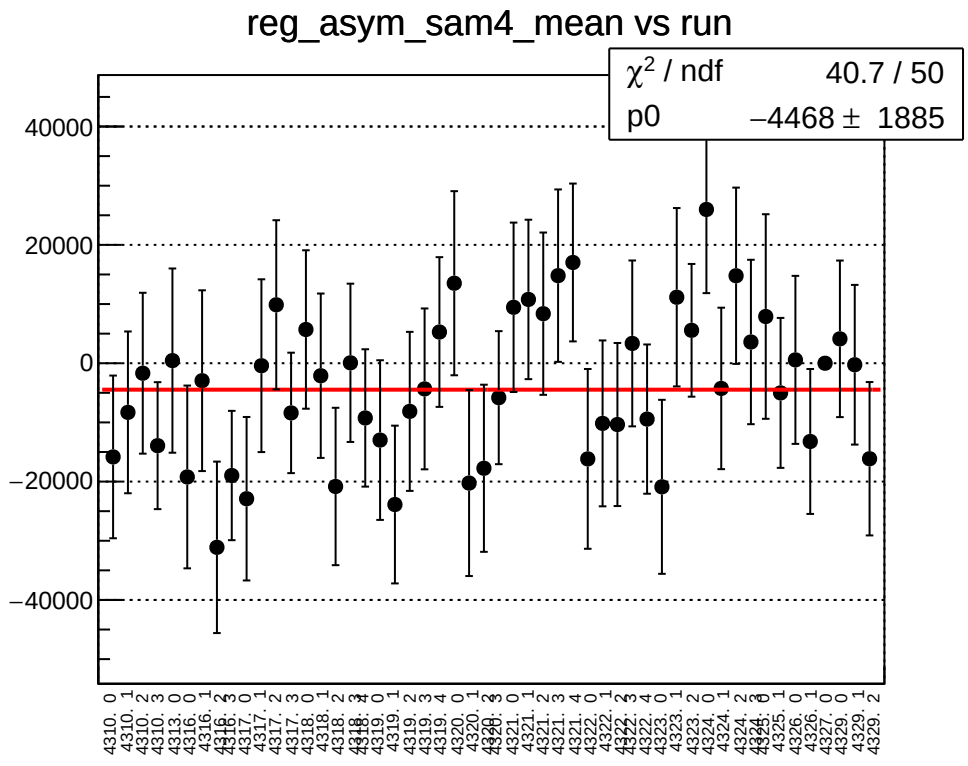

pull1D
Entries 52
Mean 0.02755
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

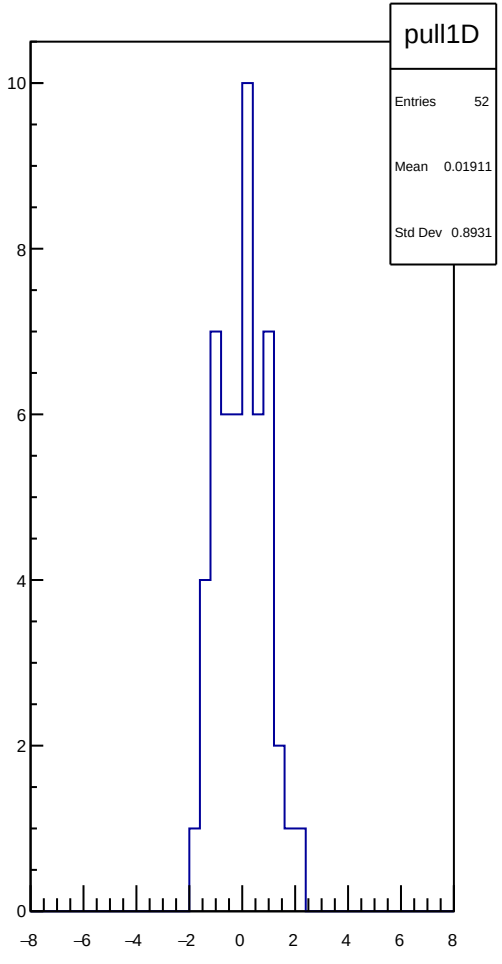

reg_asym_sam3_rms vs run
χ² / ndf 2.608e+04 / 50
p0 909.3 ± 0.9023
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

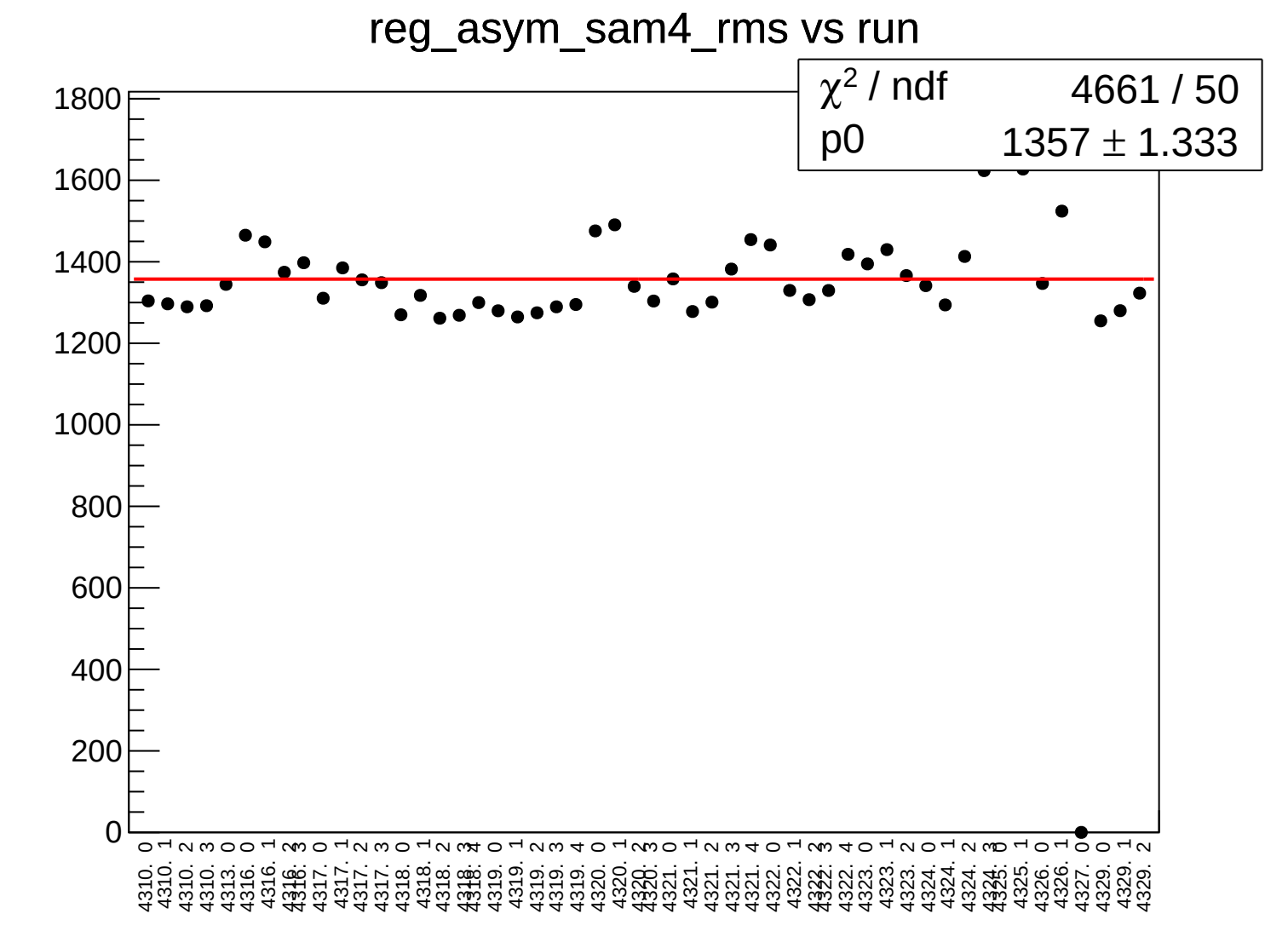

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 56.89 / 50
p0 3122 ± 1.149e+04
300
200
100
0
−100
−200
−300
−400

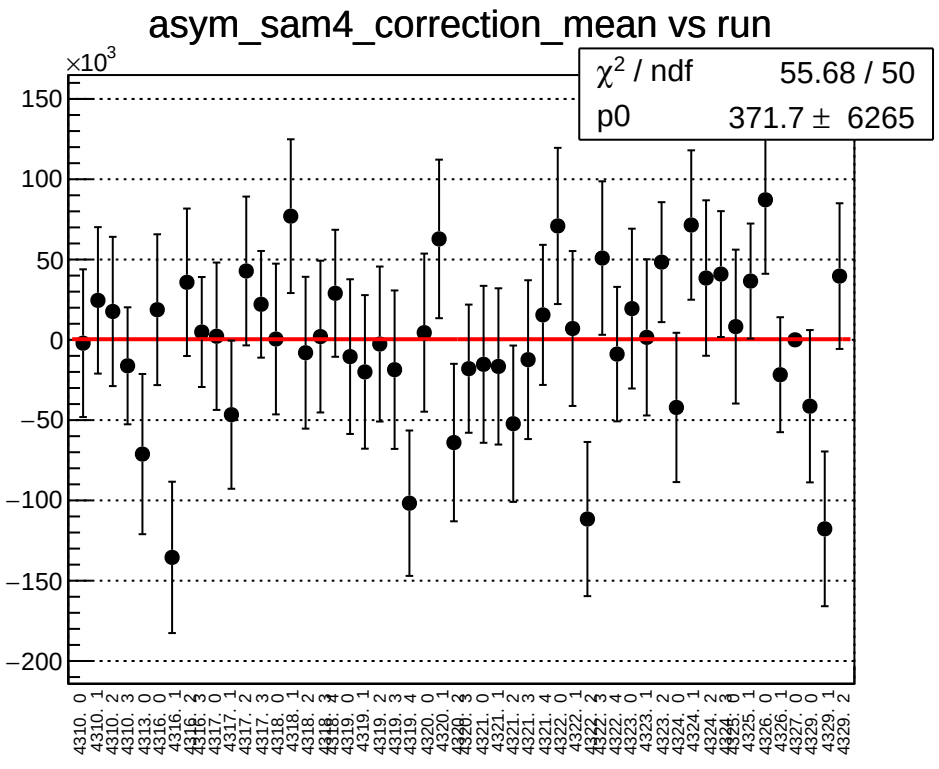

pull1D
Entries 52
Mean −0.02041
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

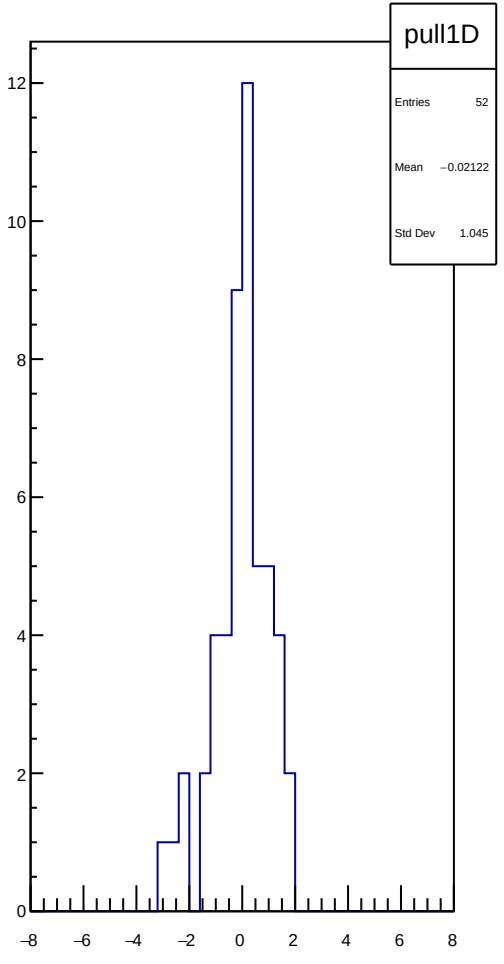

asym_sam3_correction_rms vs run
χ² / ndf 666.5 / 50
p0 8290 ± 8.125
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

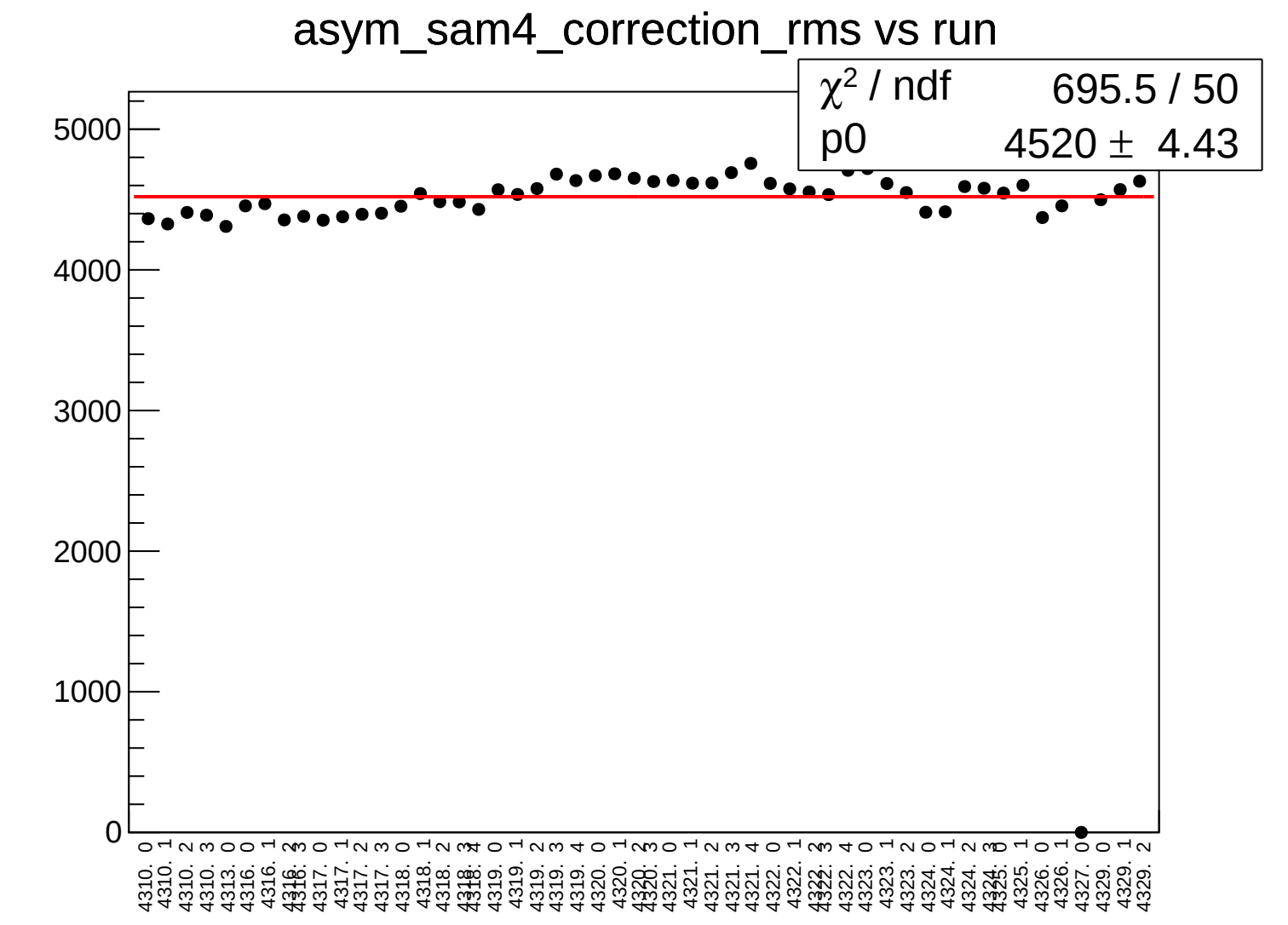

reg_asym_sam4_mean vs run
χ² / ndf 40.7 / 50
p0 −4468 ± 1885
40000
20000
0
−20000
−40000

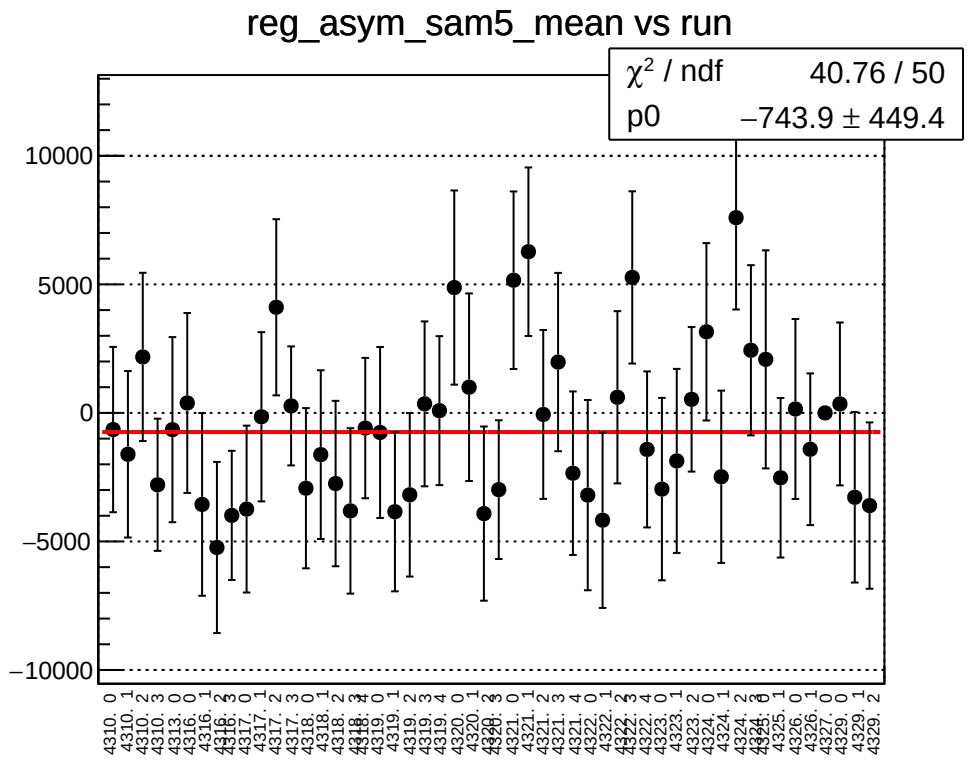

pull1D
Entries 52
Mean 0.01911
Std Dev 0.8931
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

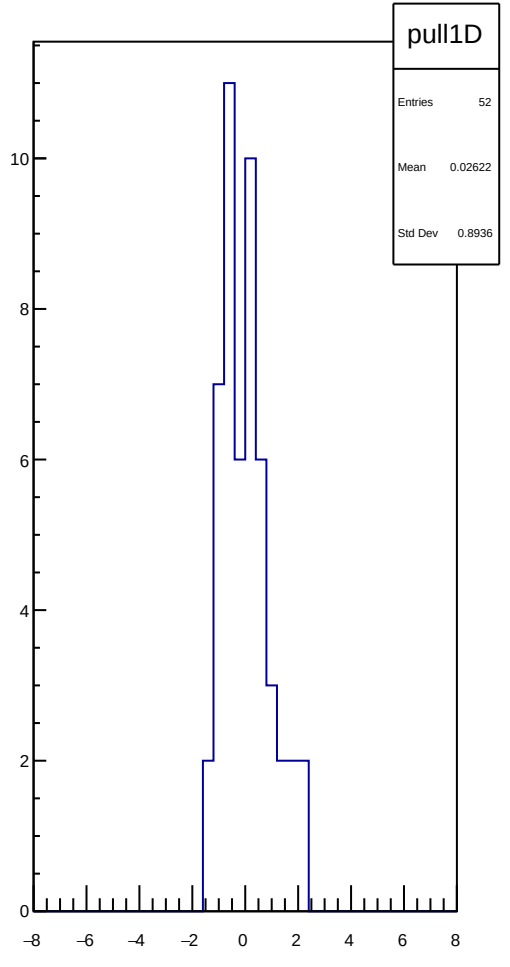

reg_asym_sam4_rms vs run
χ² / ndf 4661 / 50
p0 1357 ± 1.333
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

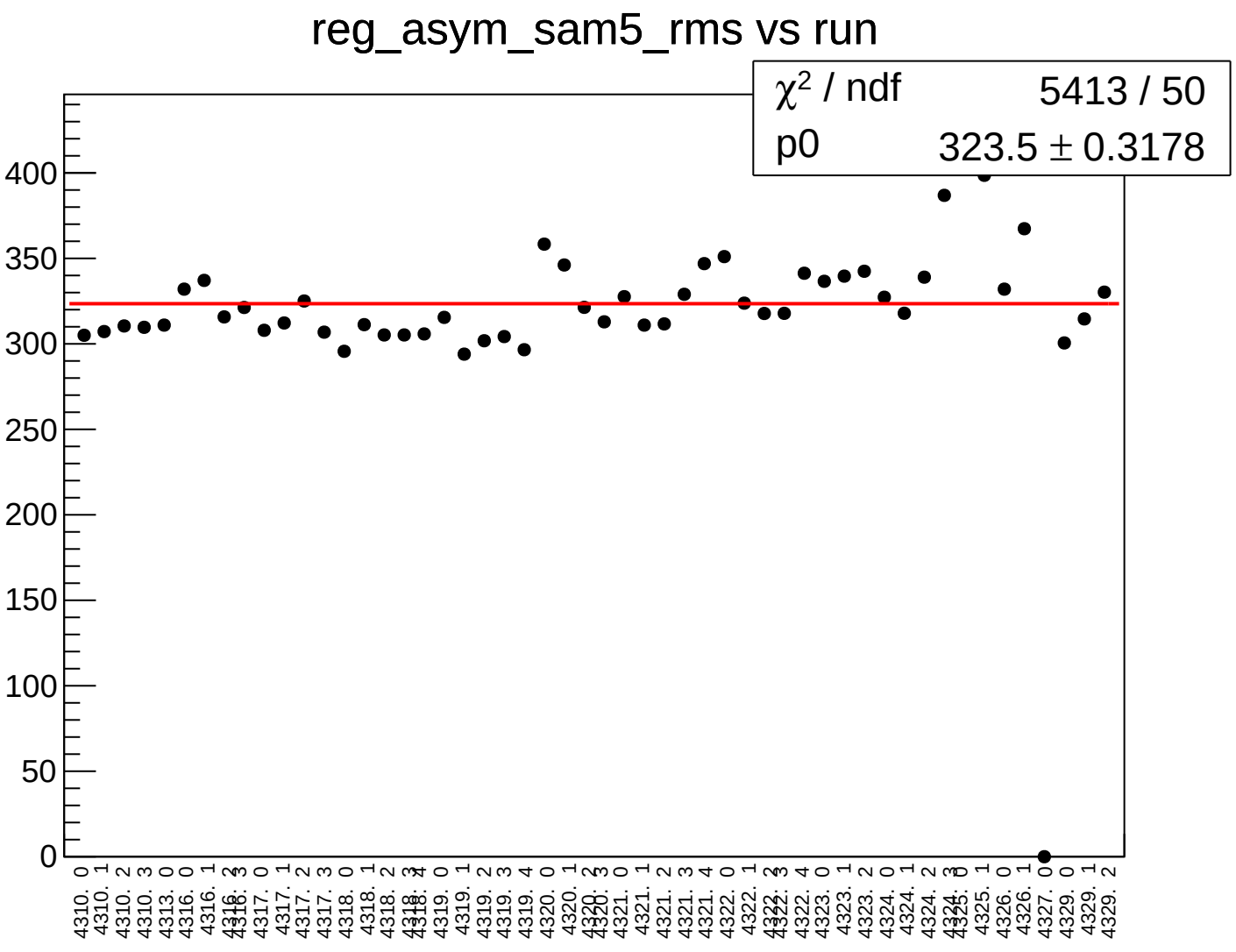

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 55.68 / 50
p0 371.7 ± 6265
150
100
50
0
−50
−100
−150
−200

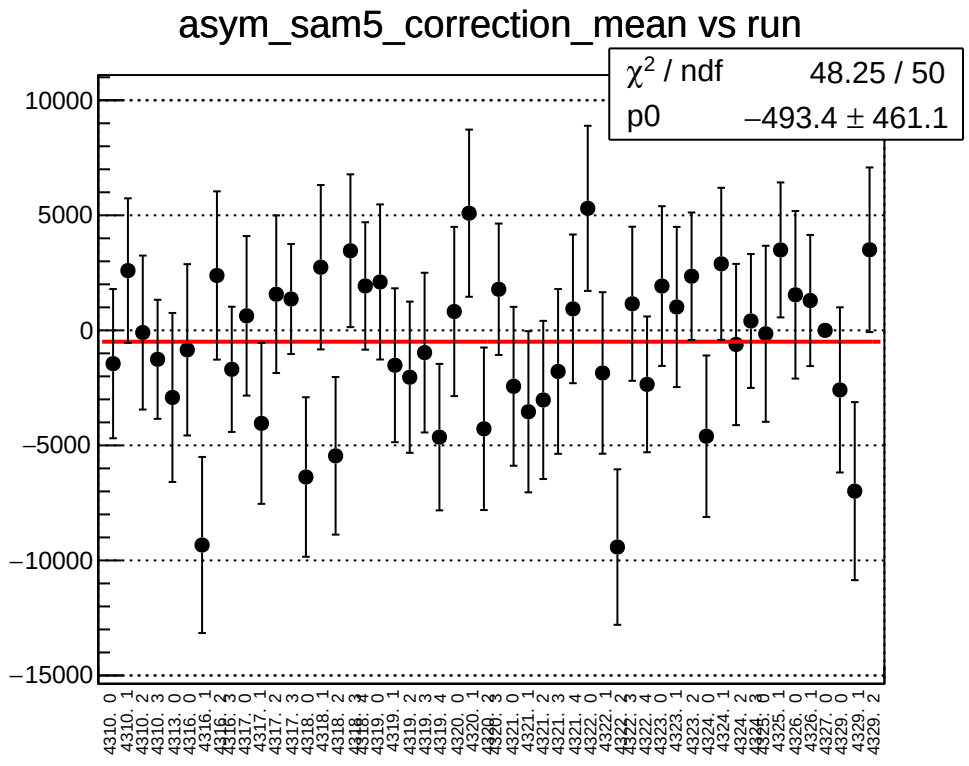

pull1D
Entries 52
Mean −0.02122
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

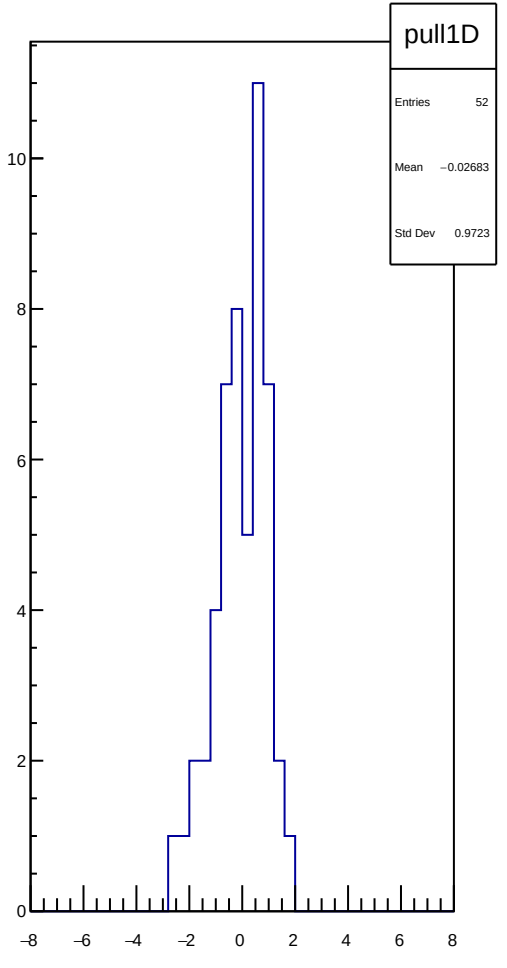

asym_sam4_correction_rms vs run
χ² / ndf 695.5 / 50
p0 4520 ± 4.43
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

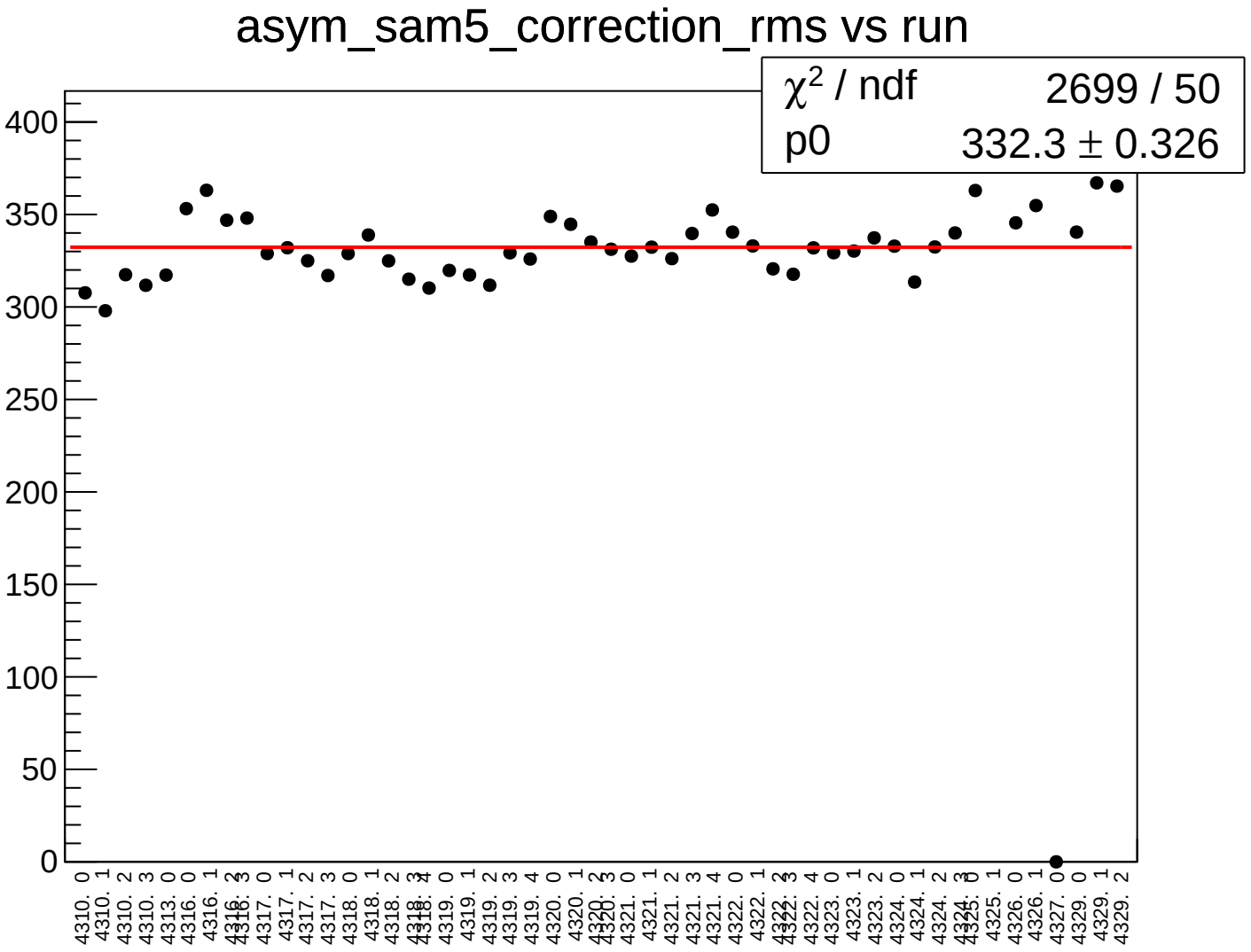

reg_asym_sam5_mean vs run
χ² / ndf 40.76 / 50
p0 −743.9 ± 449.4
10000
5000
0
−5000
−10000

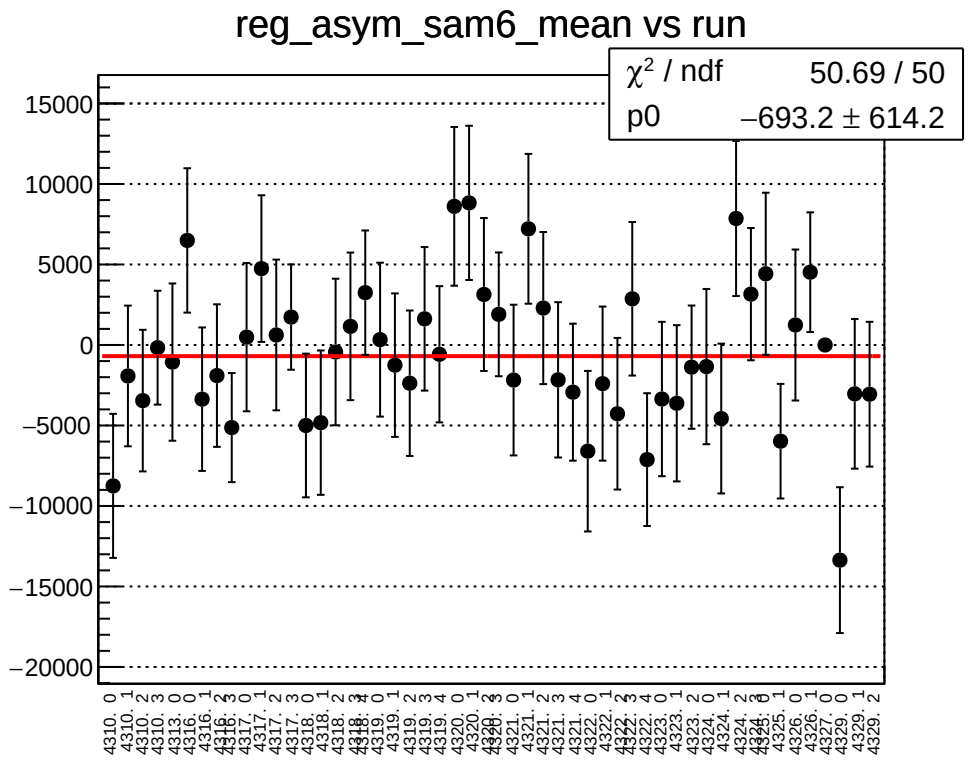

pull1D
Entries 52
Mean 0.02622
Std Dev 0.8936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

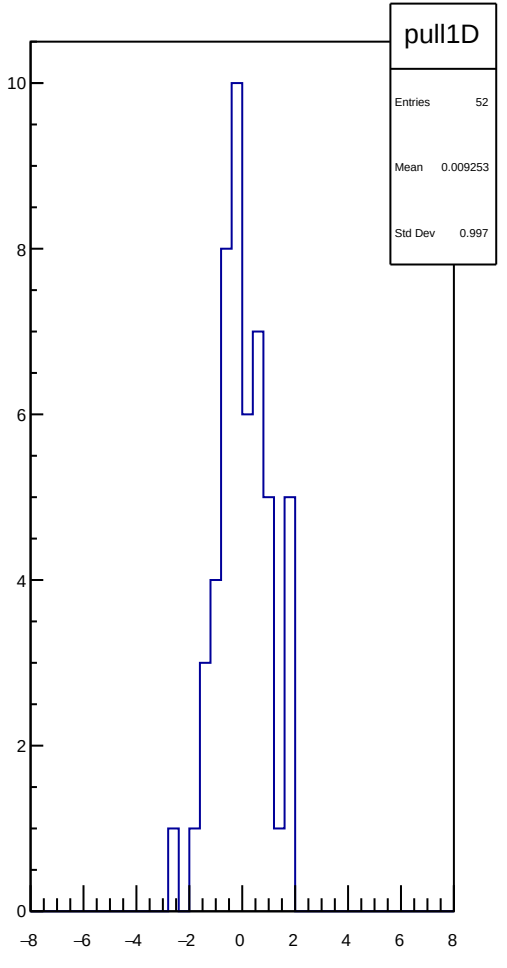

reg_asym_sam5_rms vs run
χ² / ndf 5413 / 50
p0 323.5 ± 0.3178
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

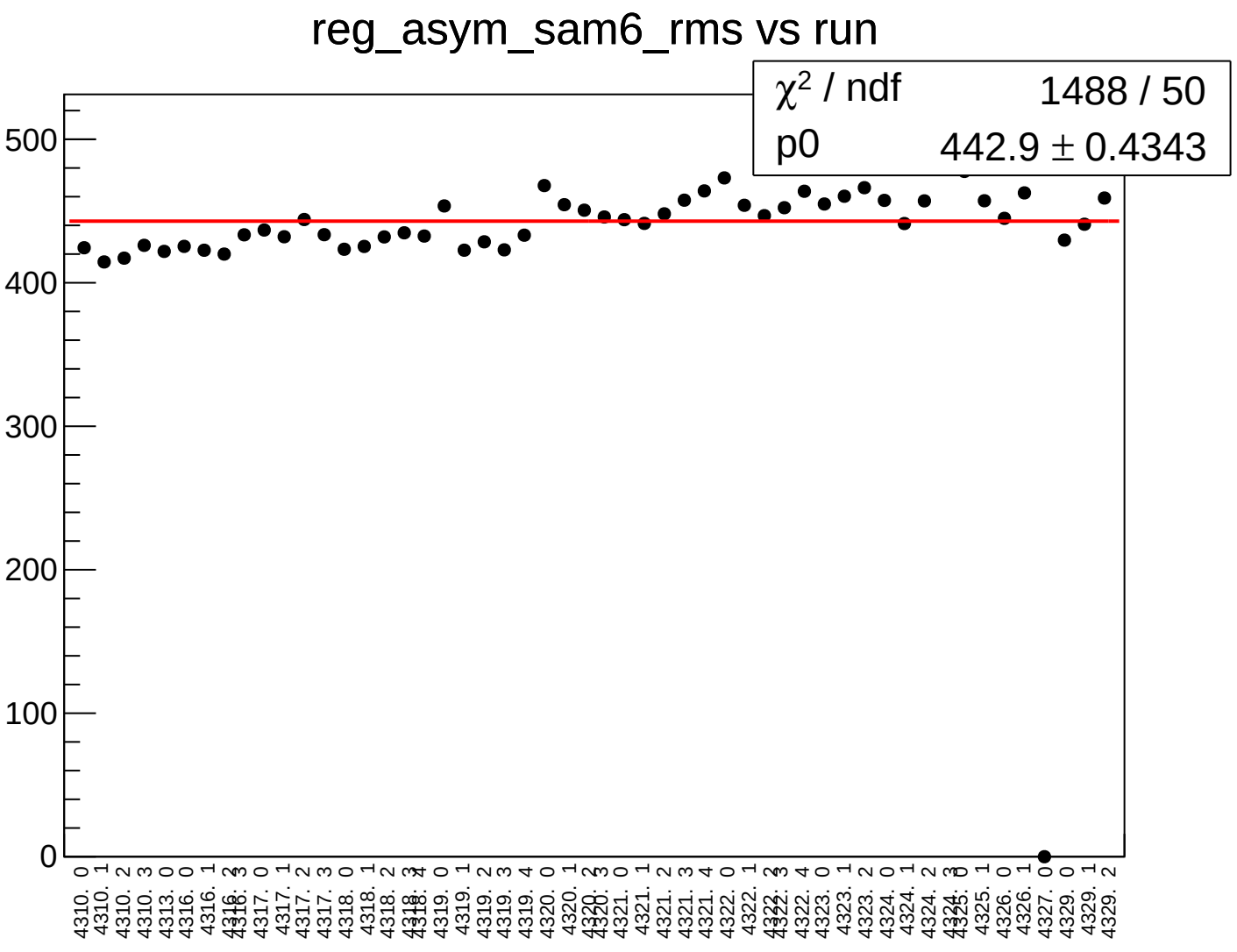

asym_sam5_correction_mean vs run
χ² / ndf 48.25 / 50
p0 −493.4 ± 461.1
10000
5000
0
−5000
−10000
−15000

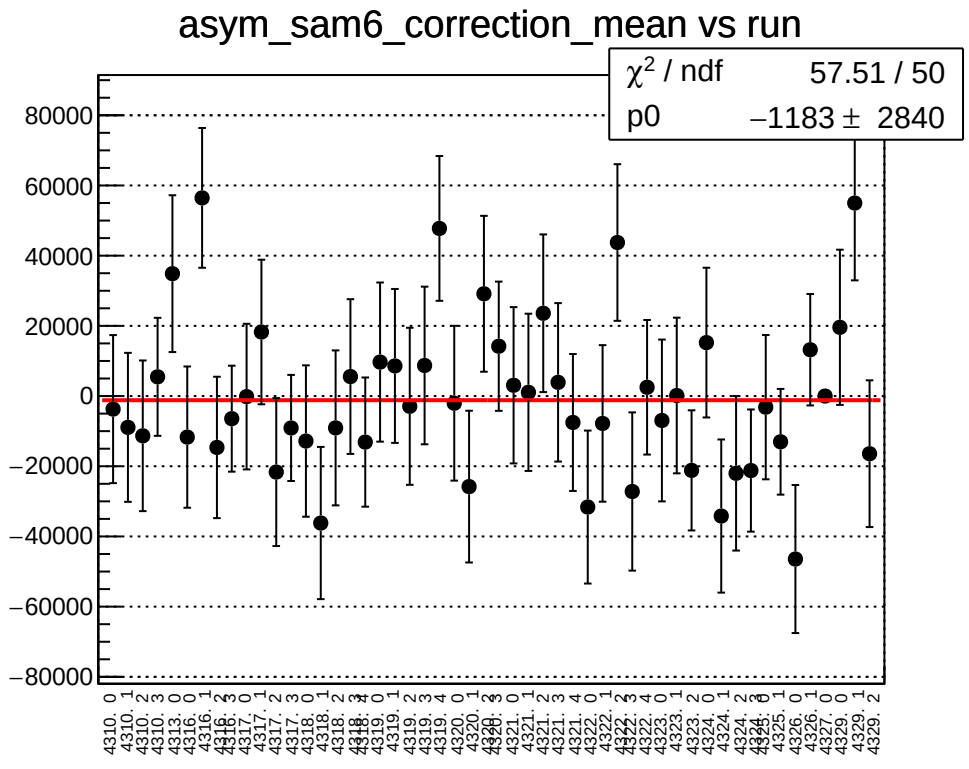

pull1D
Entries 52
Mean −0.02683
Std Dev 0.9723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

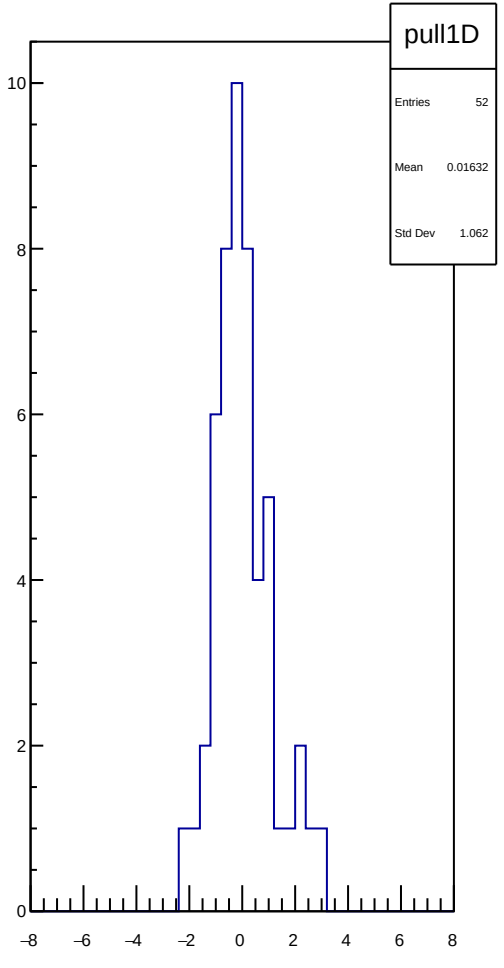

asym_sam5_correction_rms vs run
χ² / ndf 2699 / 50
p0 332.3 ± 0.326
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

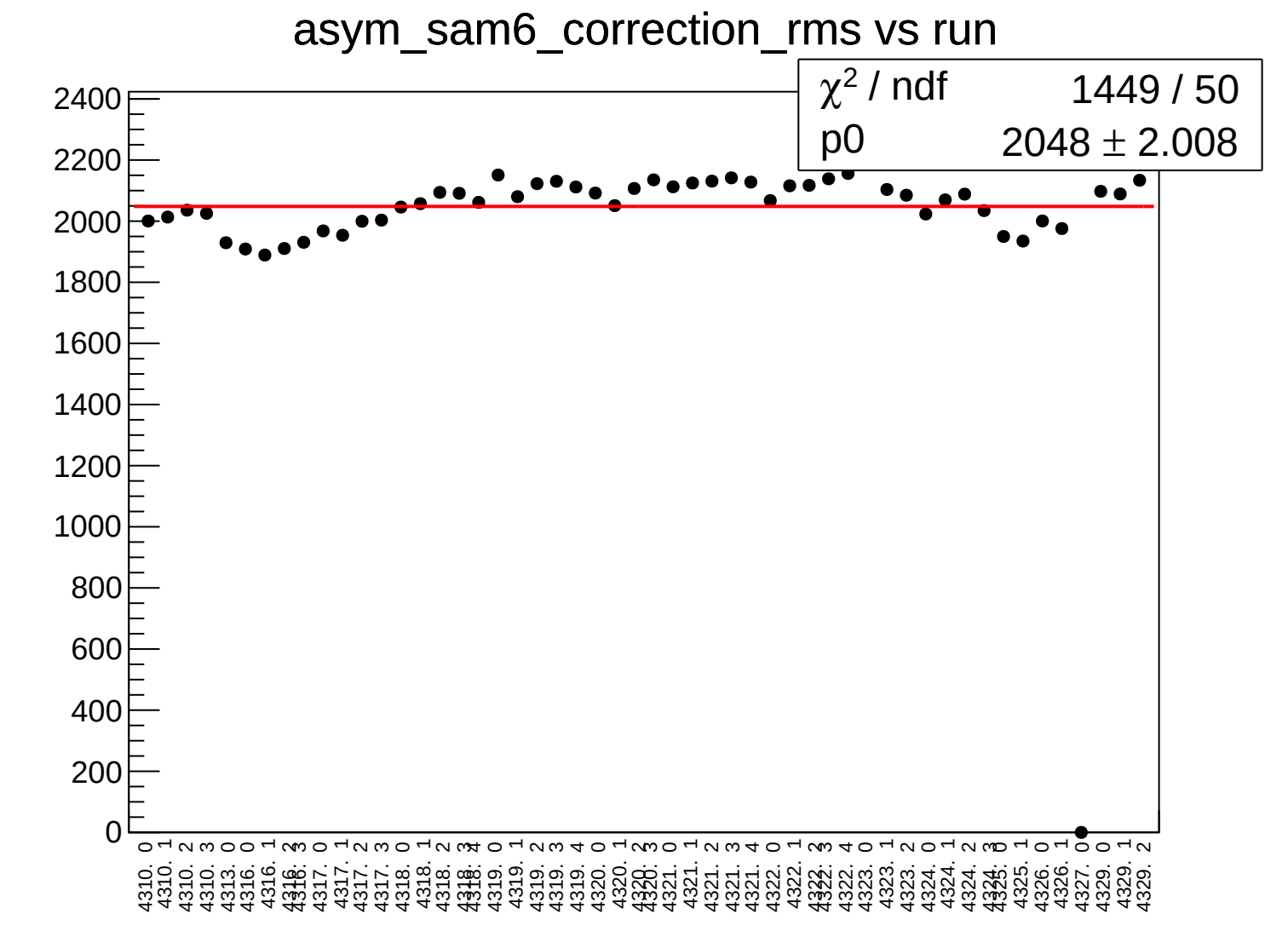

reg_asym_sam6_mean vs run
χ² / ndf 50.69 / 50
p0 −693.2 ± 614.2
15000
10000
5000
0
−5000
−10000
−15000
−20000

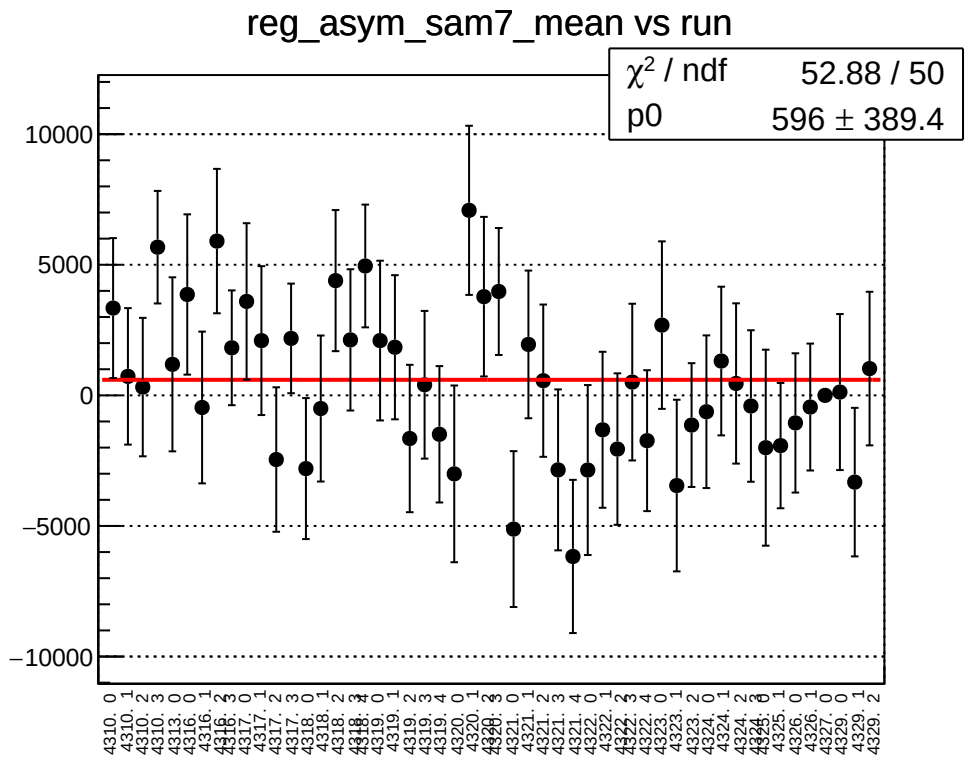

pull1D
Entries 52
Mean 0.009253
Std Dev 0.997
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

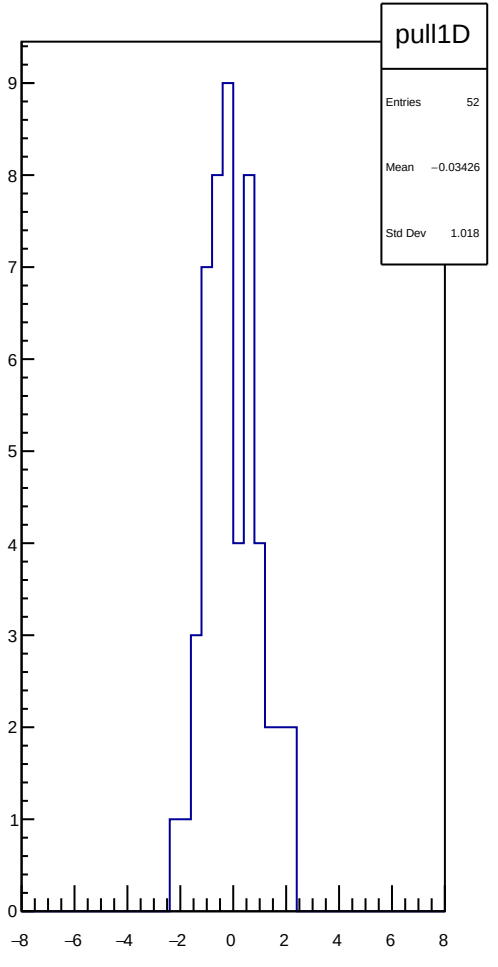

reg_asym_sam6_rms vs run
χ² / ndf 1488 / 50
p0 442.9 ± 0.4343
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

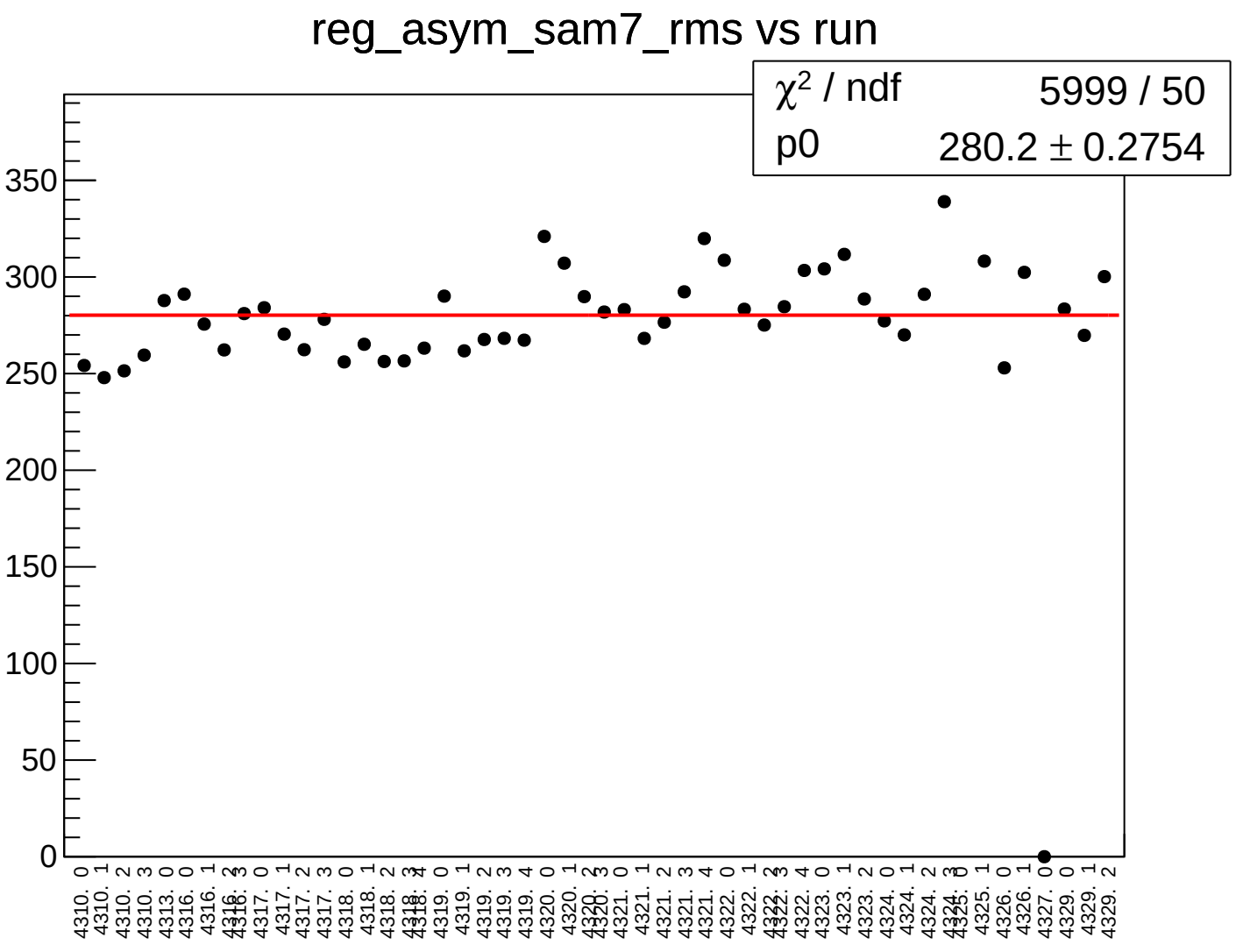

asym_sam6_correction_mean vs run
χ² / ndf 57.51 / 50
p0 −1183 ± 2840
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000


pull1D
Entries 52
Mean 0.01632
Std Dev 1.062
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_correction_rms vs run
χ² / ndf 1449 / 50
p0 2048 ± 2.008
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


reg_asym_sam7_mean vs run
χ² / ndf 52.88 / 50
p0 596 ± 389.4
10000
5000
0
−5000
−10000


pull1D
Entries 52
Mean −0.03426
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_rms vs run
χ² / ndf 5999 / 50
p0 280.2 ± 0.2754
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
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4324. 2
4325. 1
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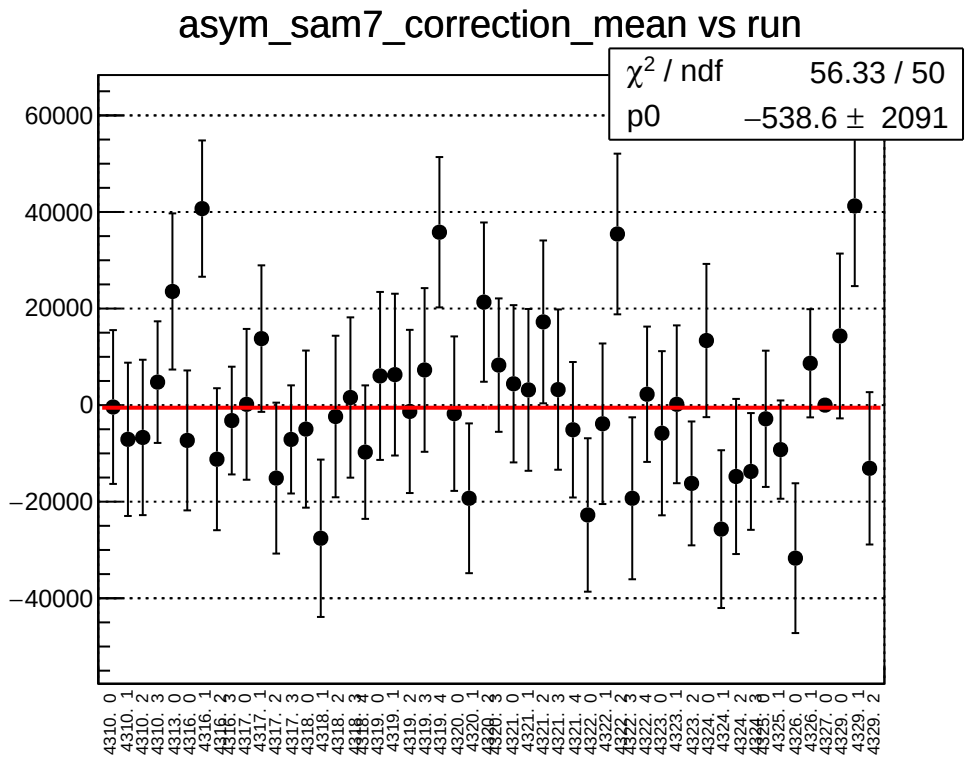
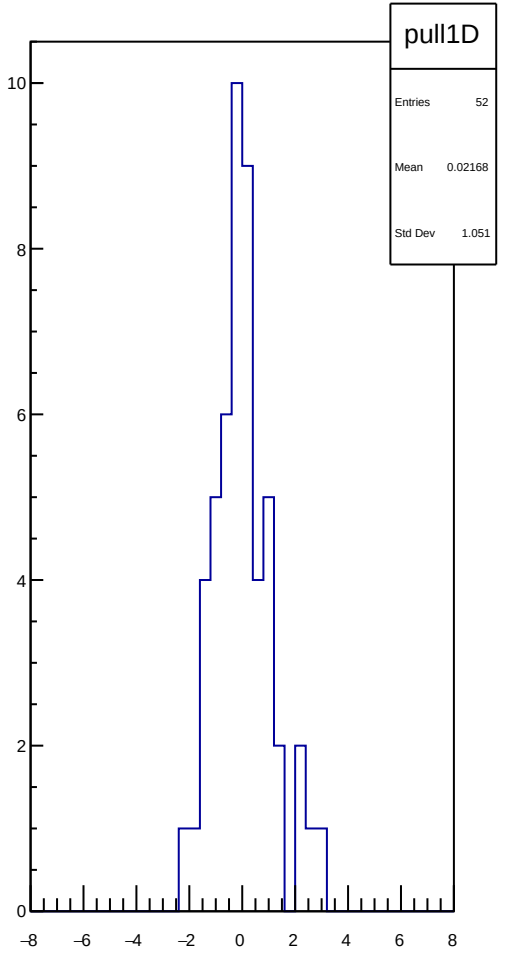
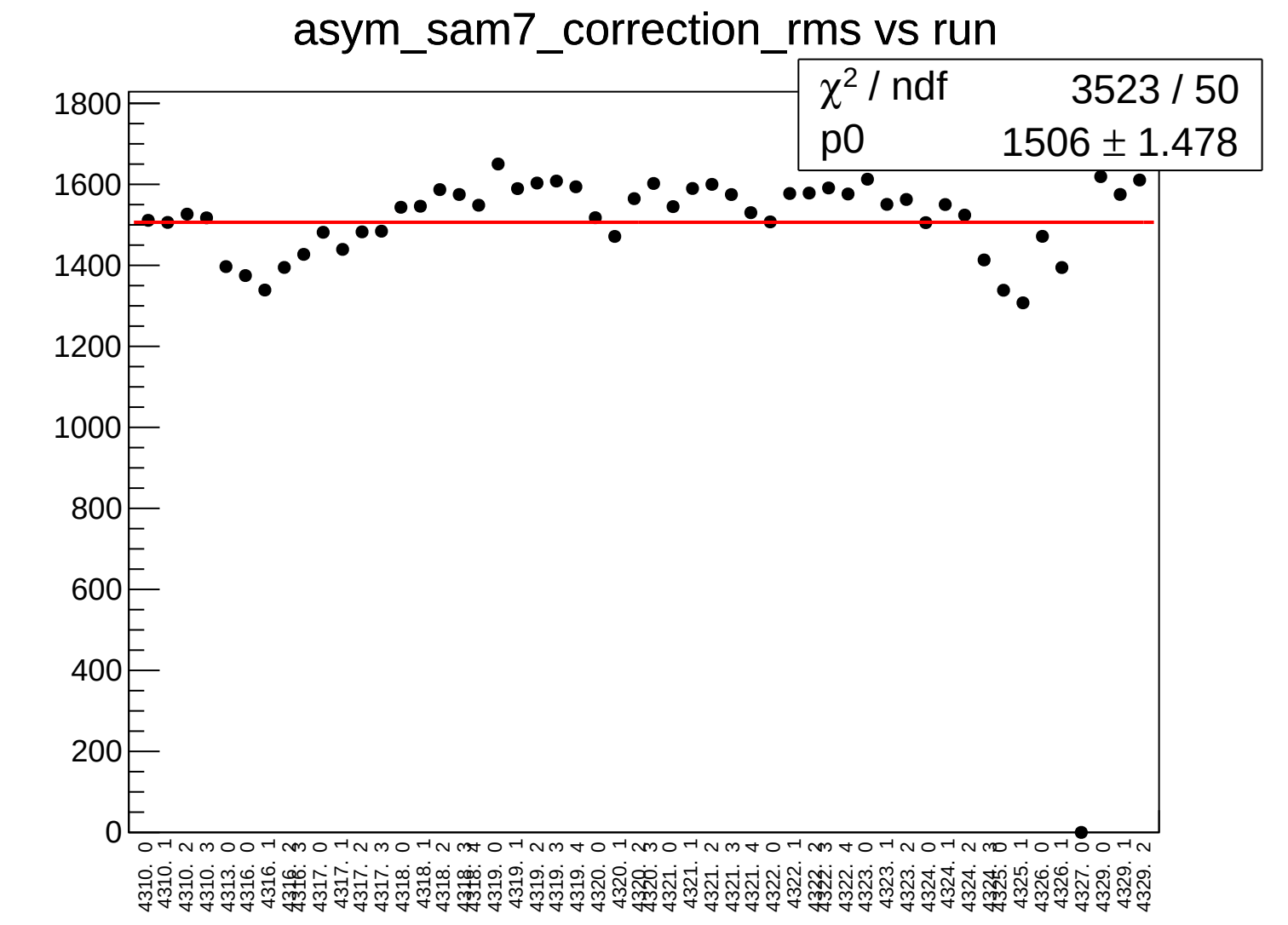
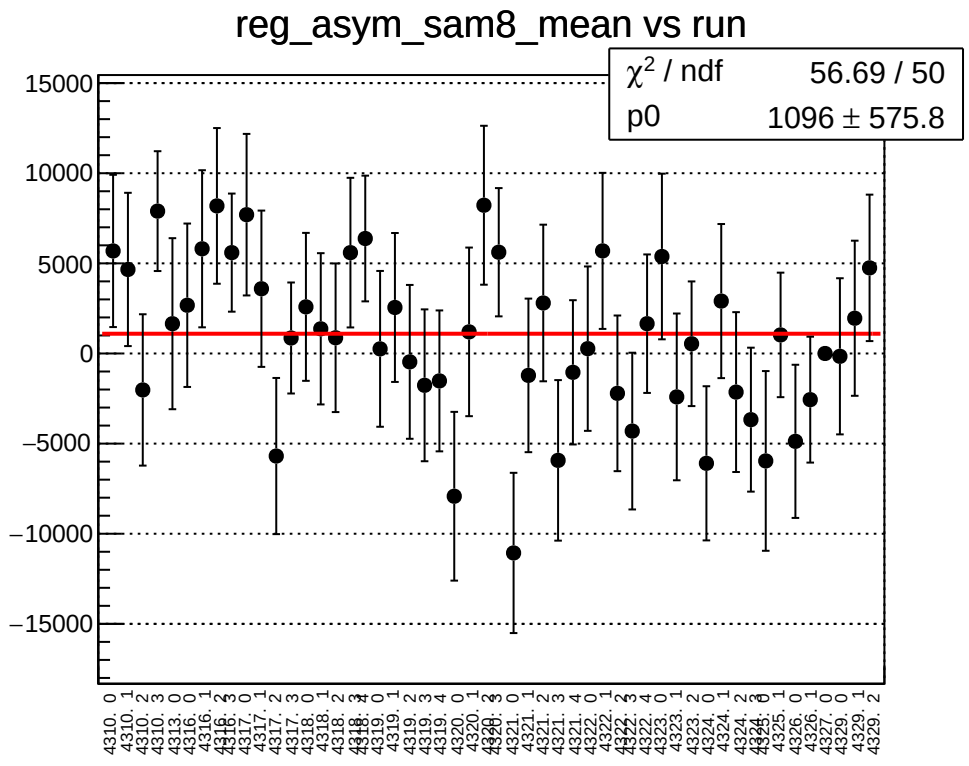
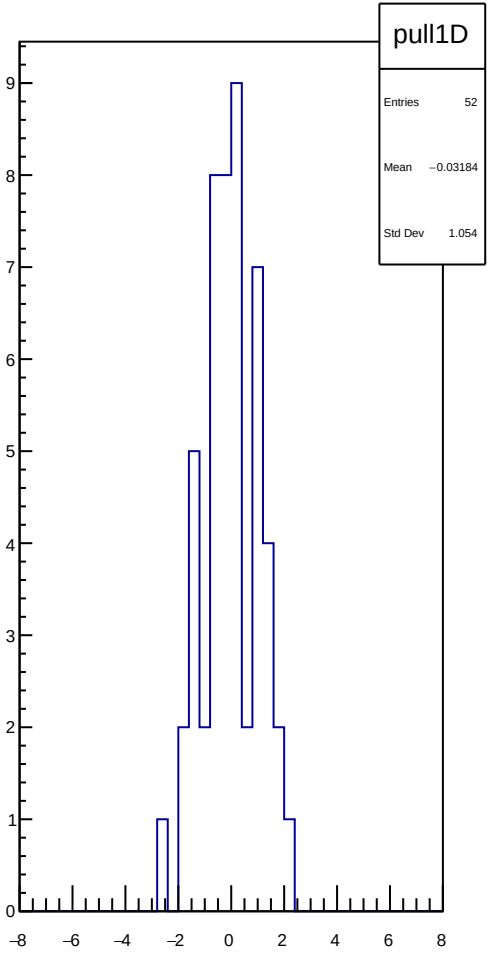
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

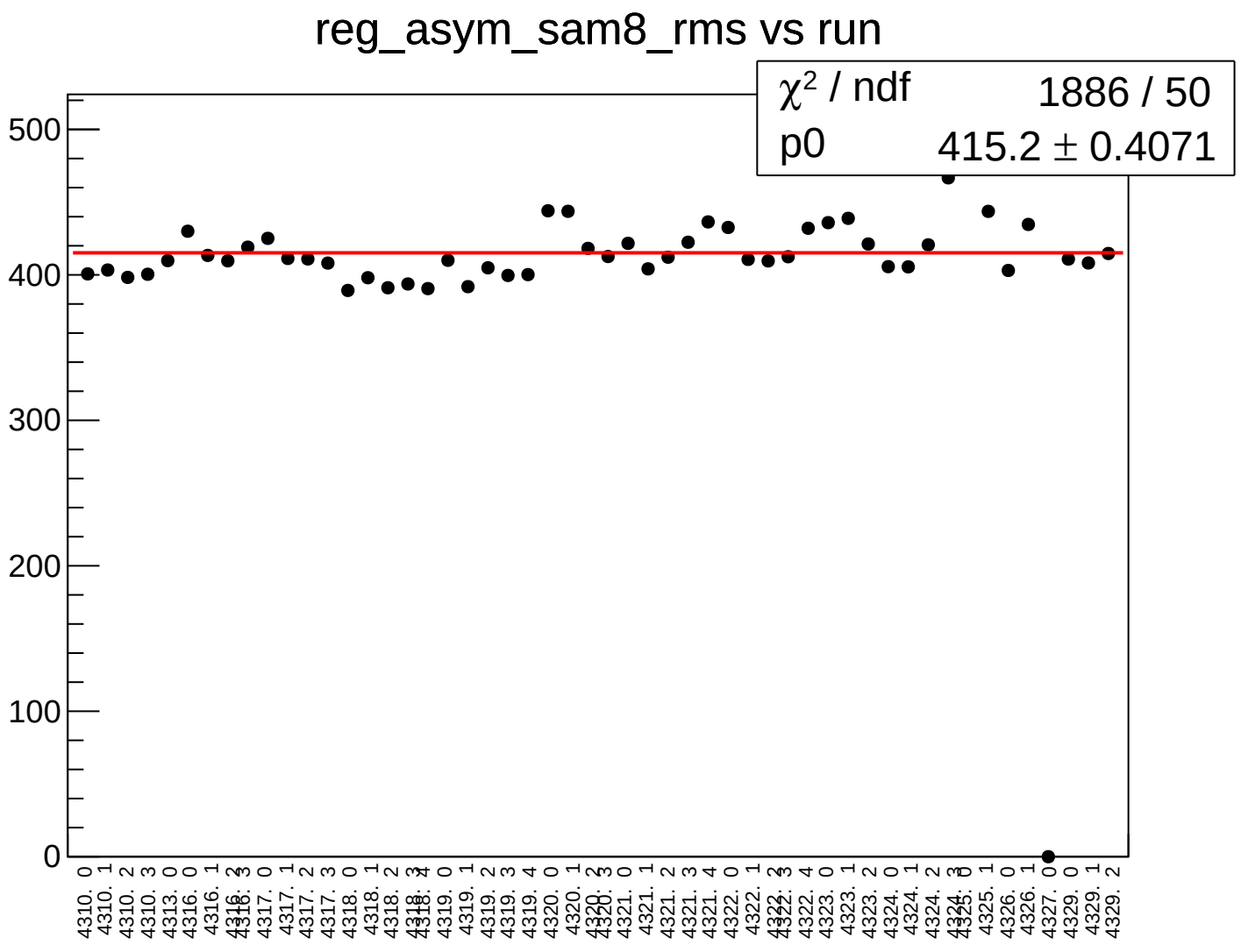

asym_sam7_correction_mean vs run
χ² / ndf 56.33 / 50
p0 −538.6 ± 2091
60000
40000
20000
0
−20000
−40000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

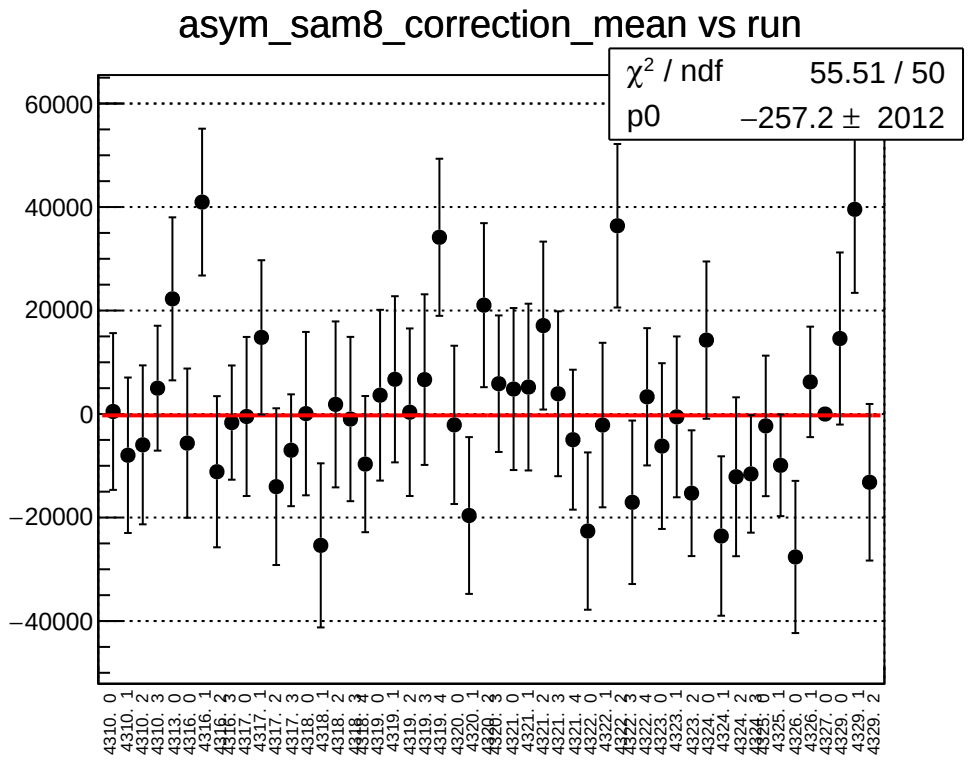

pull1D
Entries 52
Mean 0.02168
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

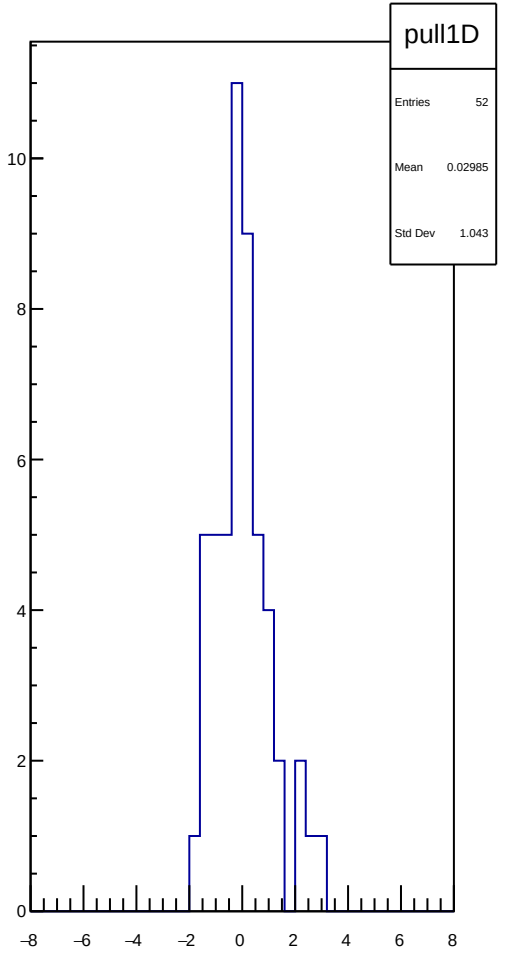

asym_sam7_correction_rms vs run
χ² / ndf 3523 / 50
p0 1506 ± 1.478
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

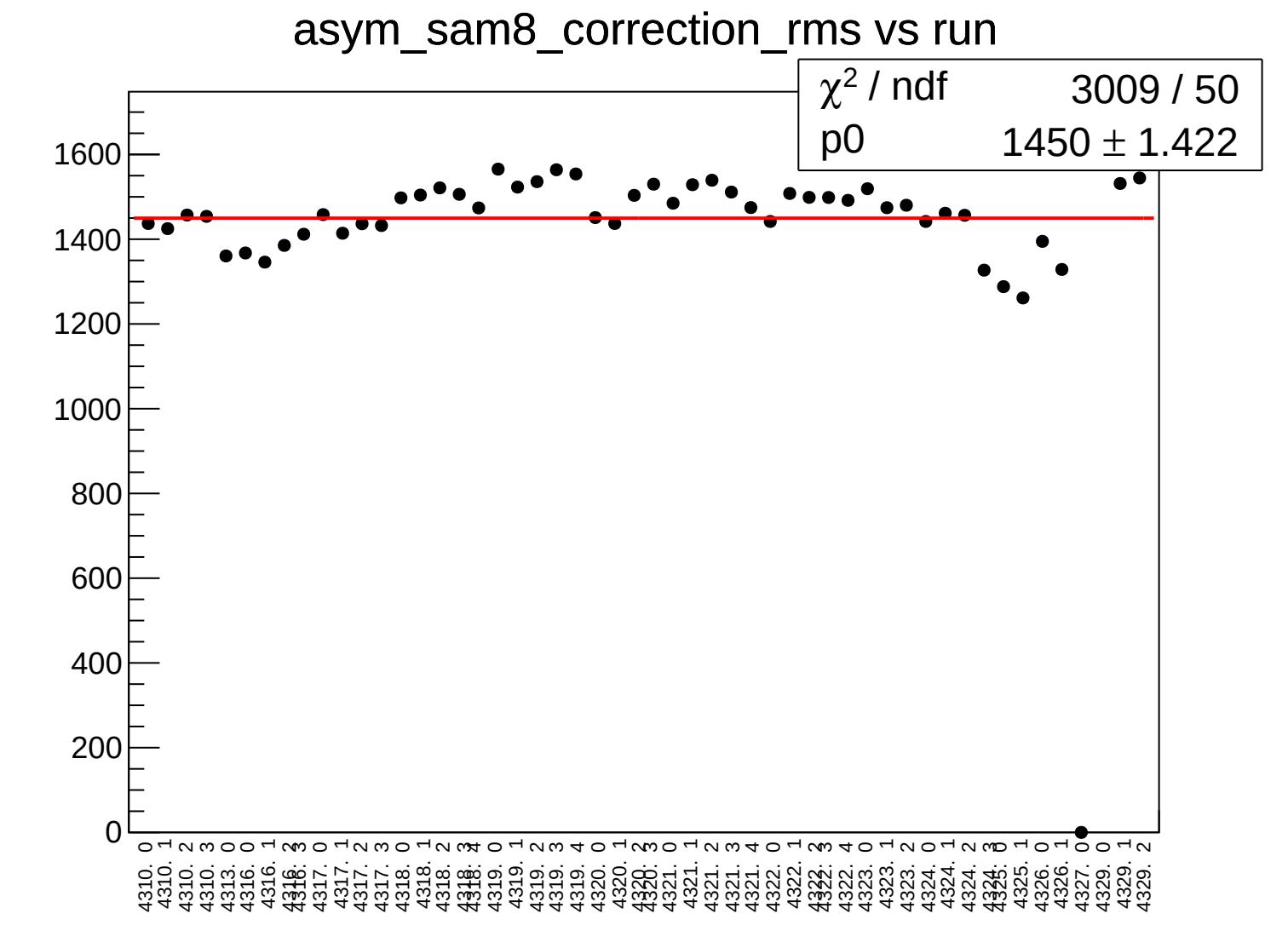

reg_asym_sam8_mean vs run
χ² / ndf 56.69 / 50
p0 1096 ± 575.8
15000
10000
5000
0
−5000
−10000
−15000

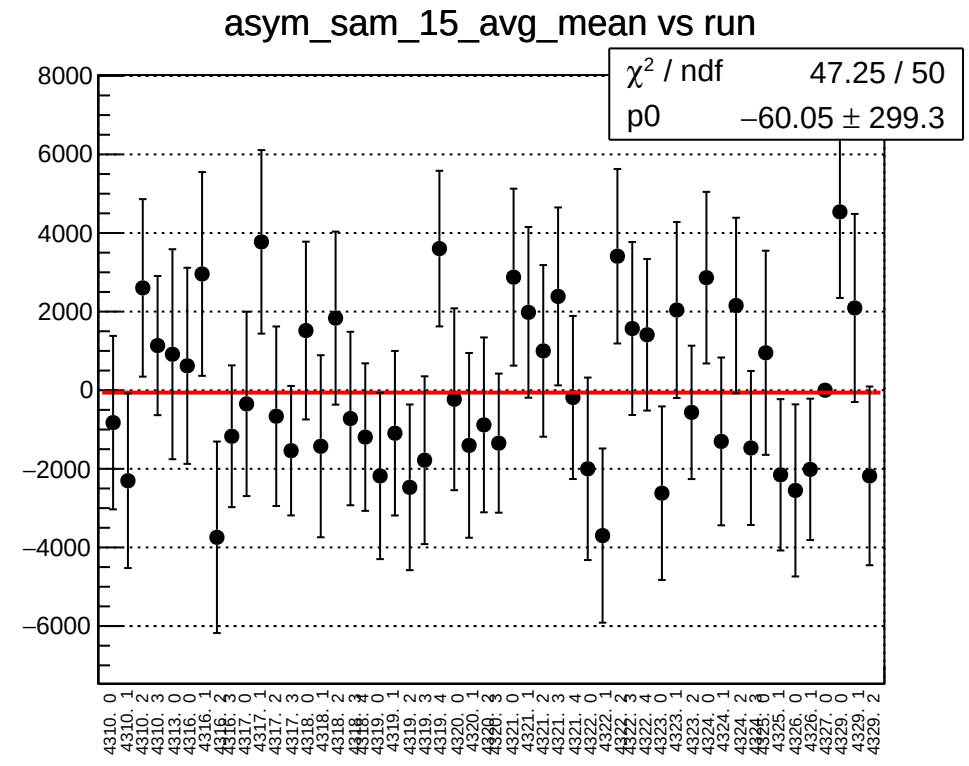

pull1D
Entries 52
Mean −0.03184
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

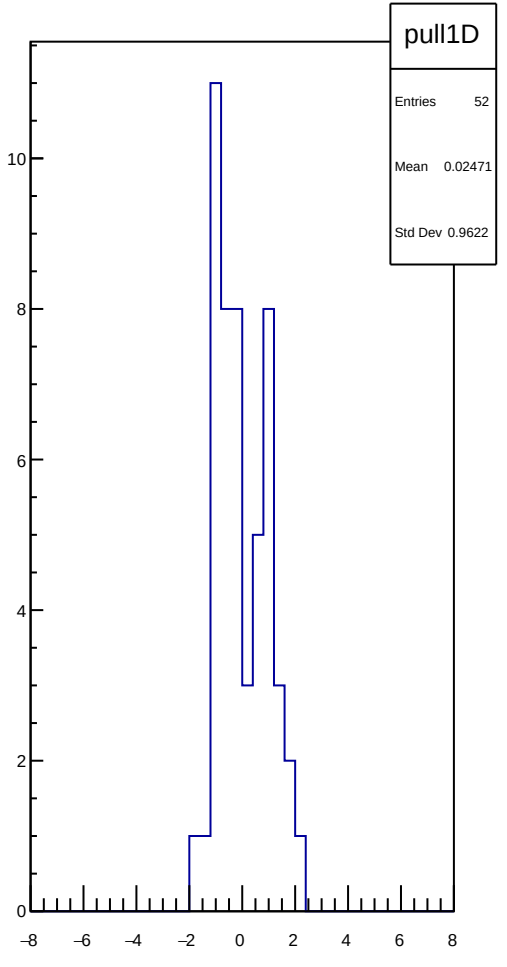

reg_asym_sam8_rms vs run
χ² / ndf 1886 / 50
p0 415.2 ± 0.4071
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

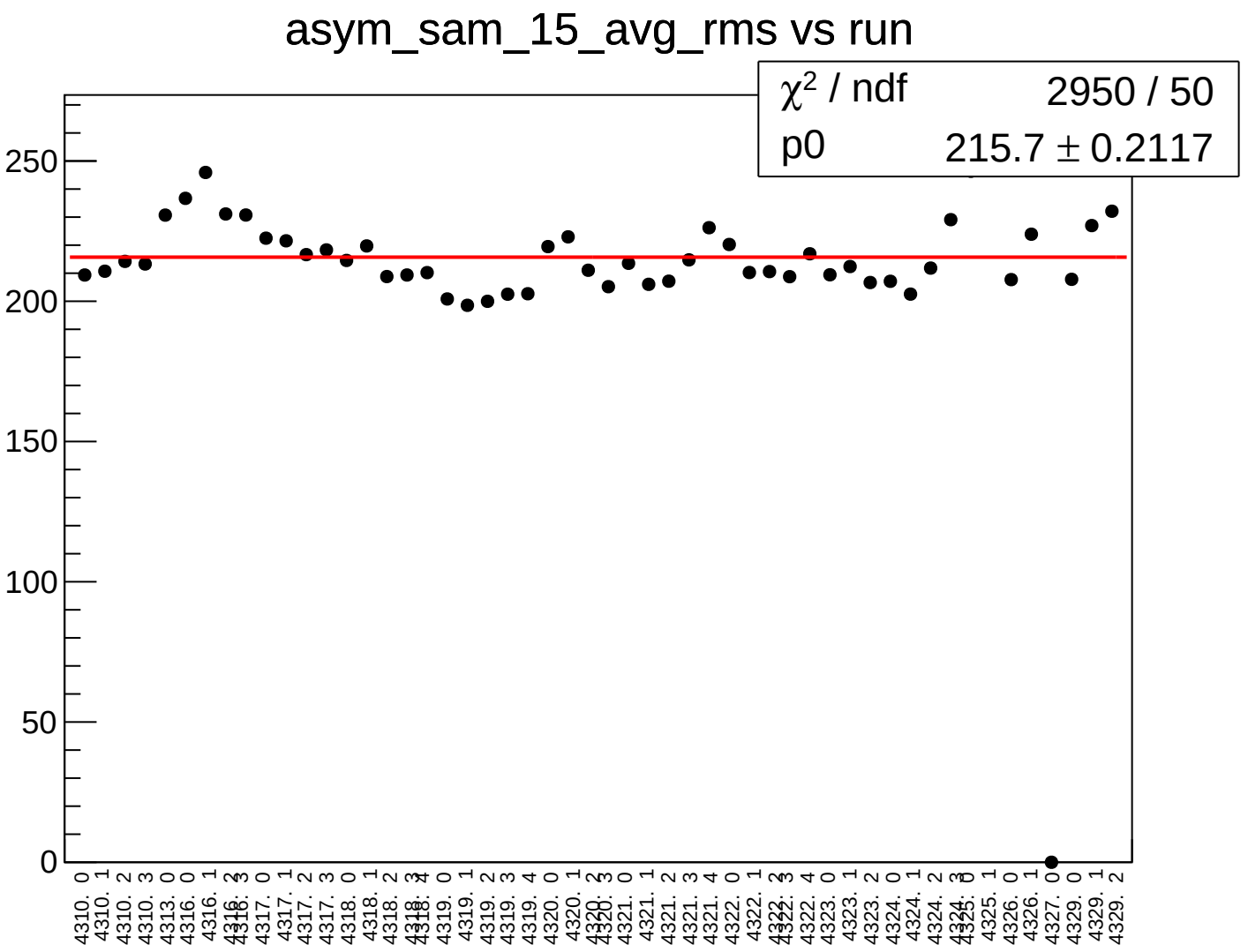

asym_sam8_correction_mean vs run
χ² / ndf 55.51 / 50
p0 −257.2 ± 2012
60000
40000
20000
0
−20000
−40000

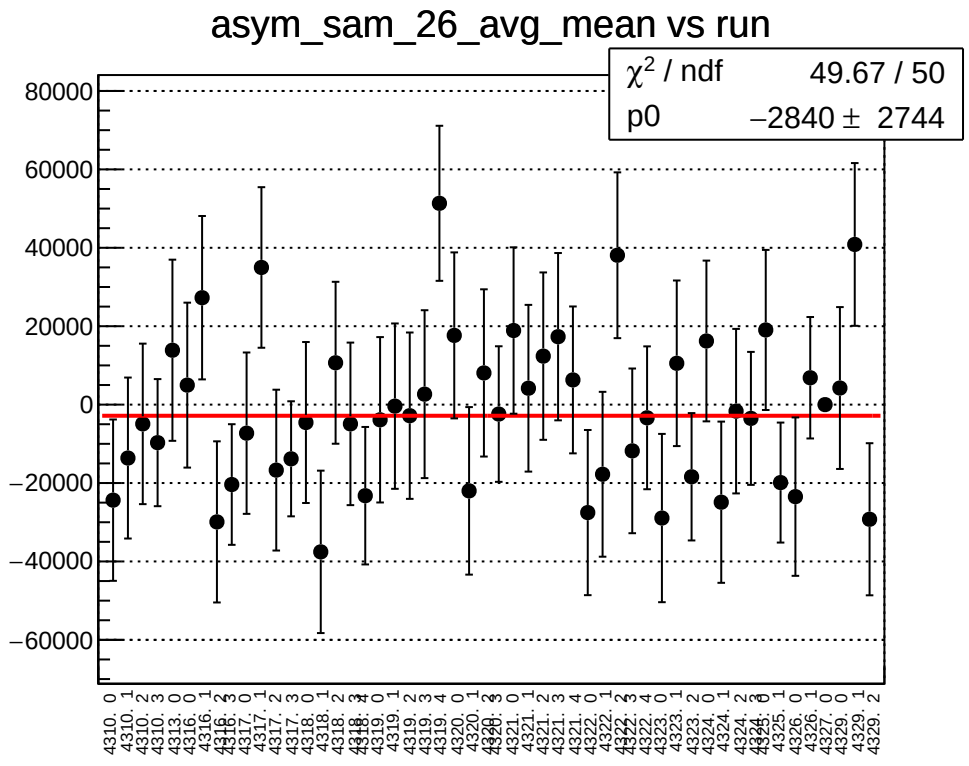

pull1D
Entries 52
Mean 0.02985
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

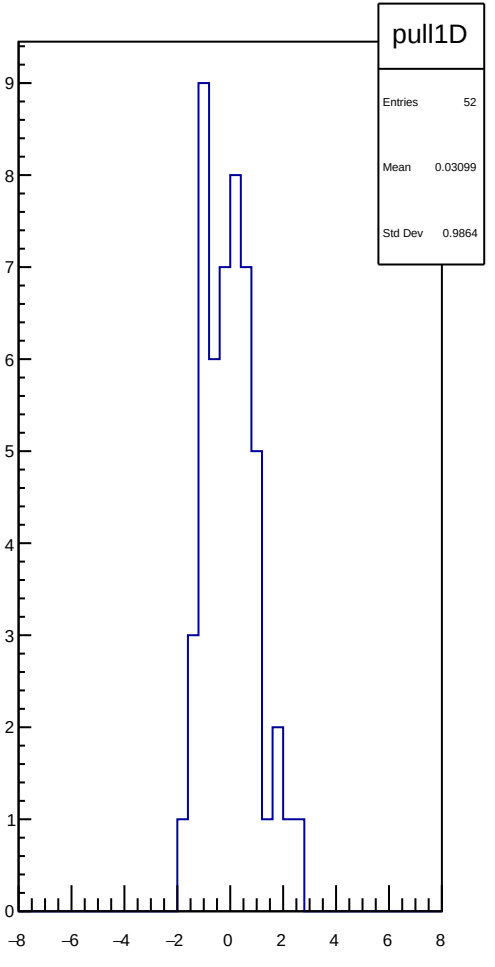

asym_sam8_correction_rms vs run
χ² / ndf 3009 / 50
p0 1450 ± 1.422
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

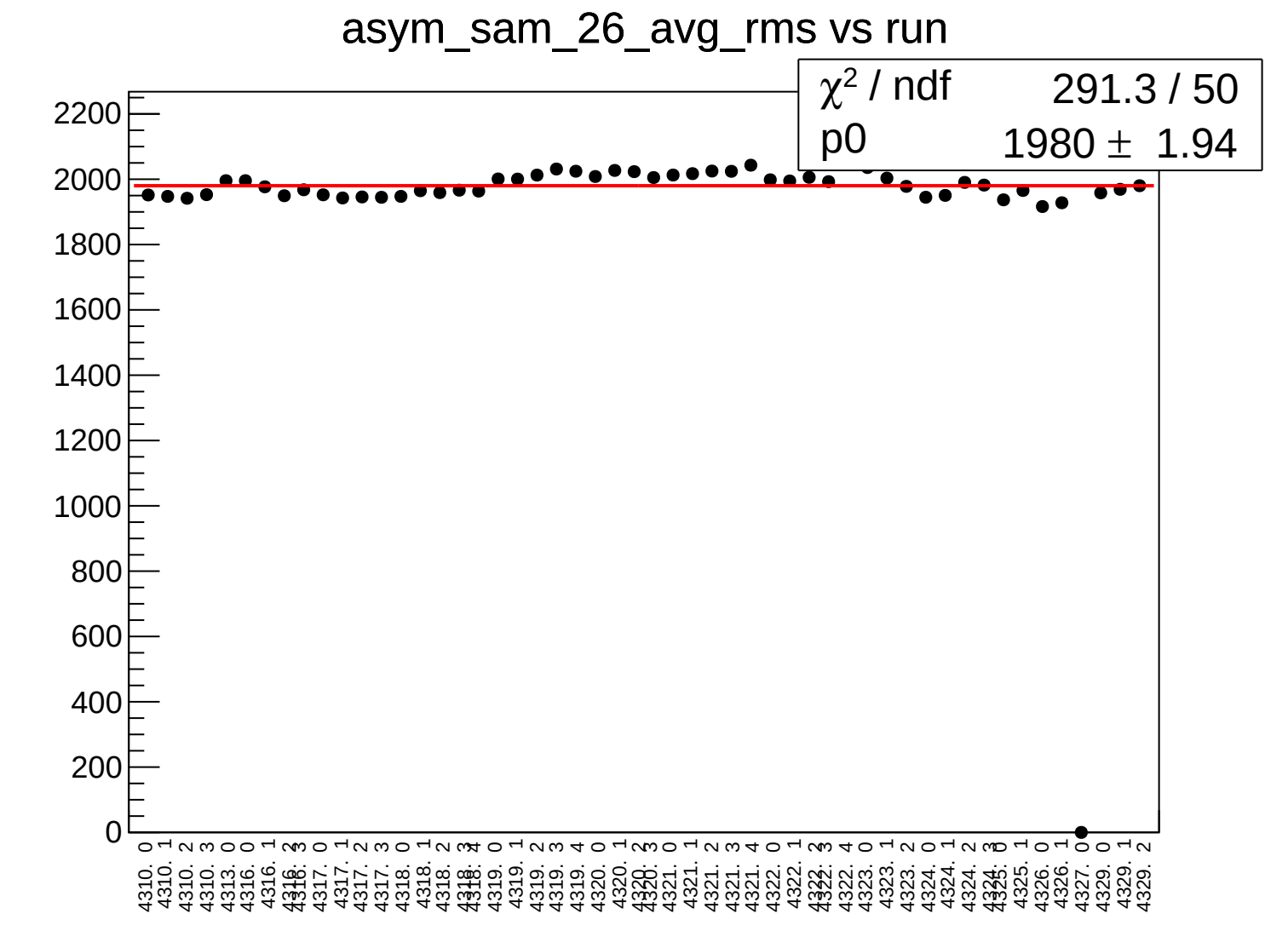

asym_sam_15_avg_mean vs run
χ² / ndf 47.25 / 50
p0 −60.05 ± 299.3
8000
6000
4000
2000
0
−2000
−4000
−6000

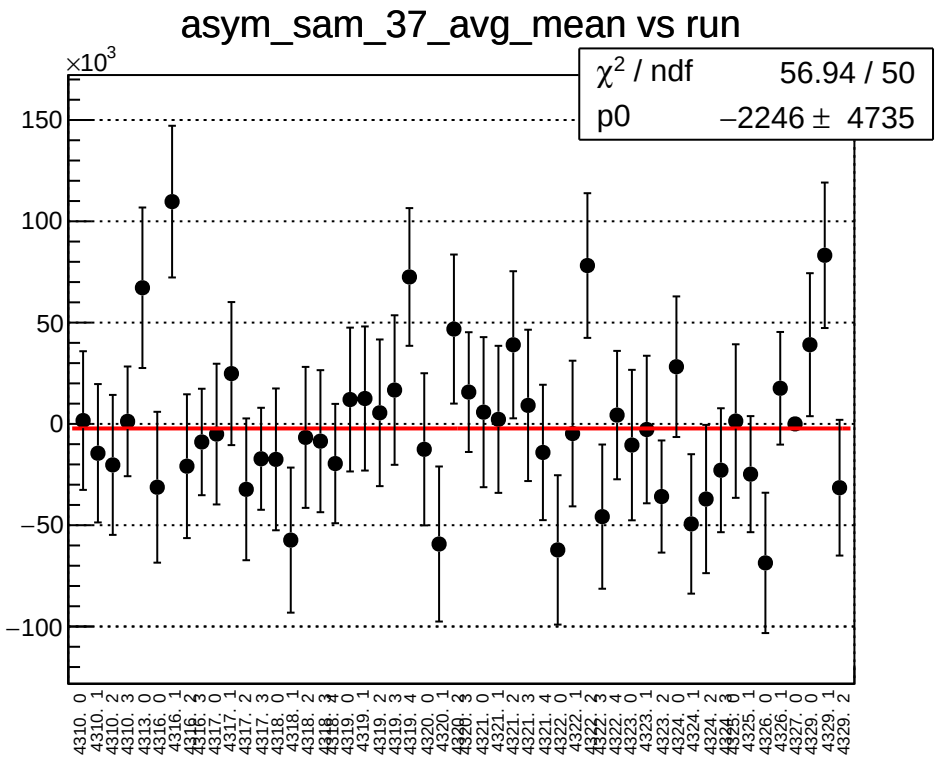

pull1D
Entries 52
Mean 0.02471
Std Dev 0.9622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

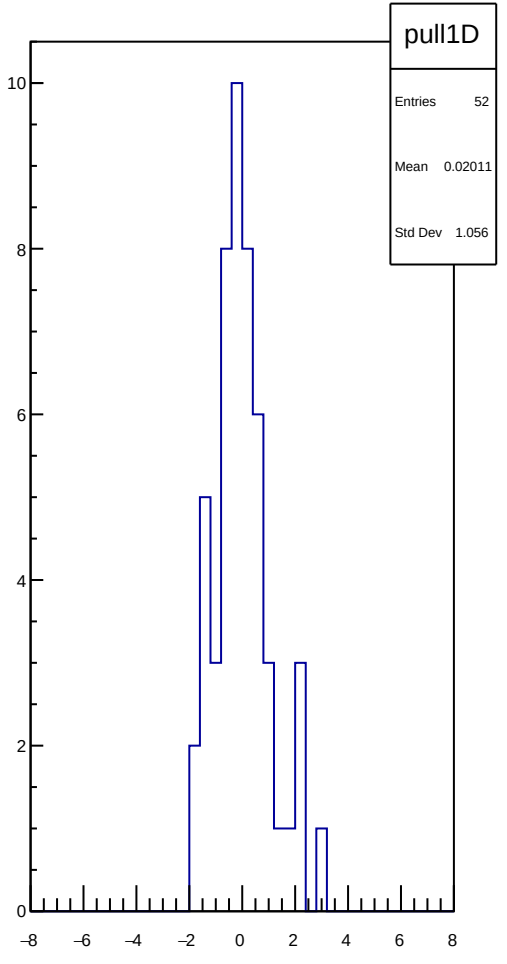

asym_sam_15_avg_rms vs run
χ² / ndf 2950 / 50
p0 215.7 ± 0.2117
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

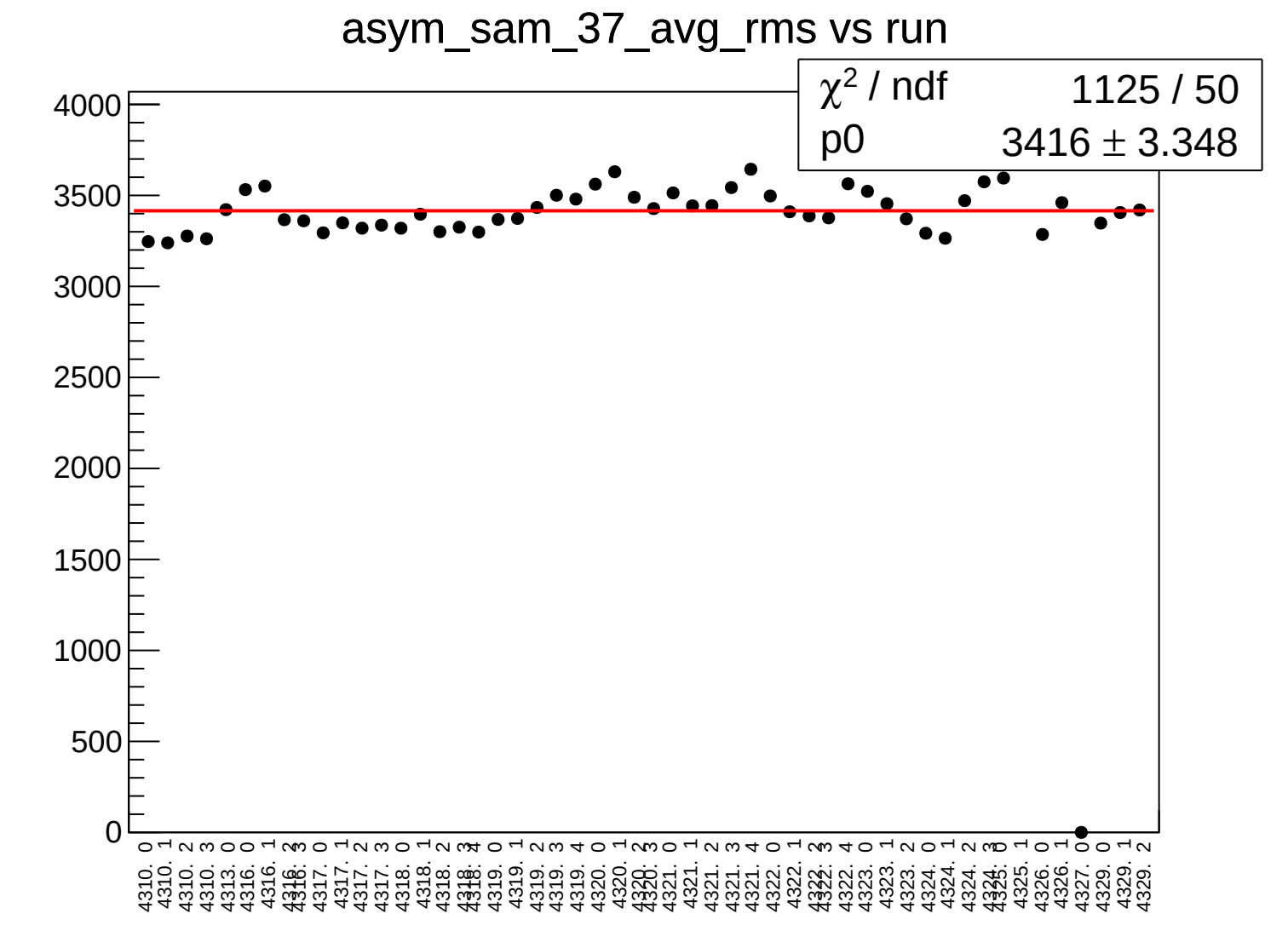

asym_sam_26_avg_mean vs run
χ² / ndf 49.67 / 50
p0 −2840 ± 2744
80000
60000
40000
20000
0
−20000
−40000
−60000

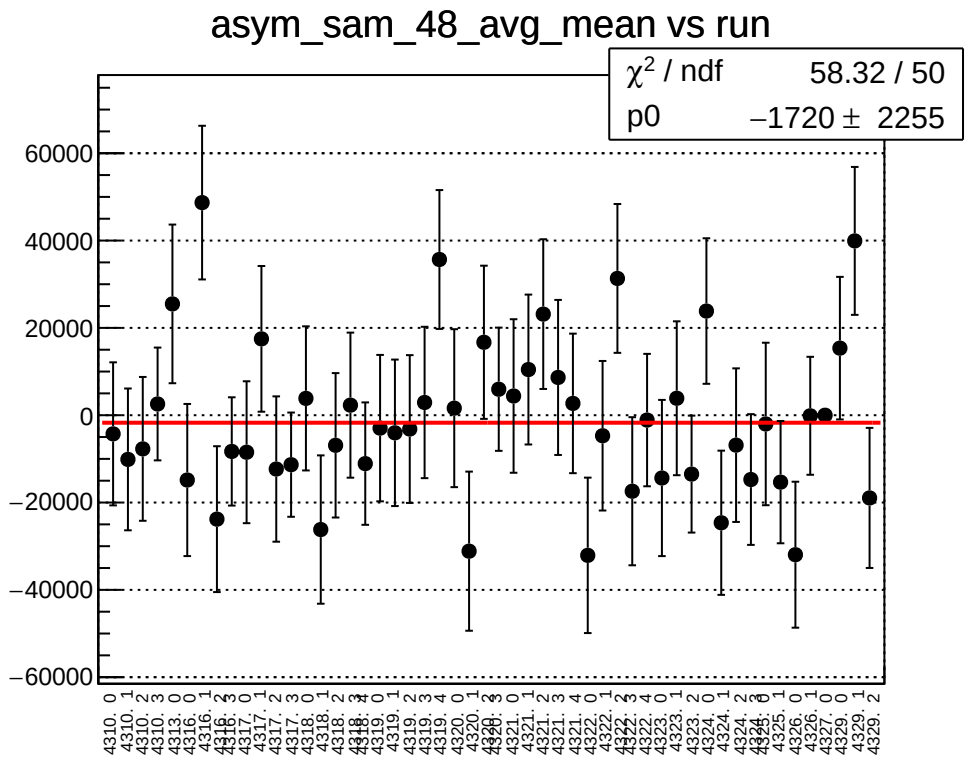

pull1D
Entries 52
Mean 0.03099
Std Dev 0.9864
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

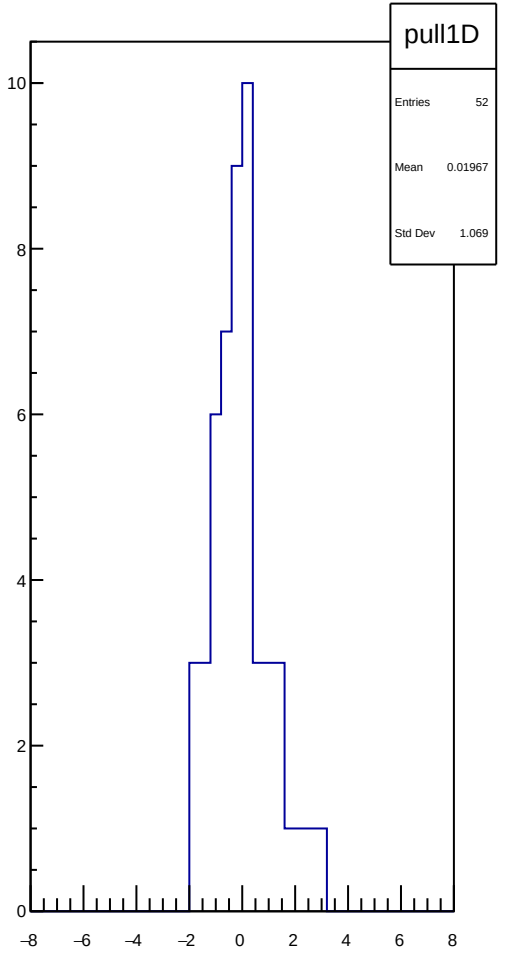

asym_sam_26_avg_rms vs run
χ² / ndf 291.3 / 50
p0 1980 ± 1.94
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

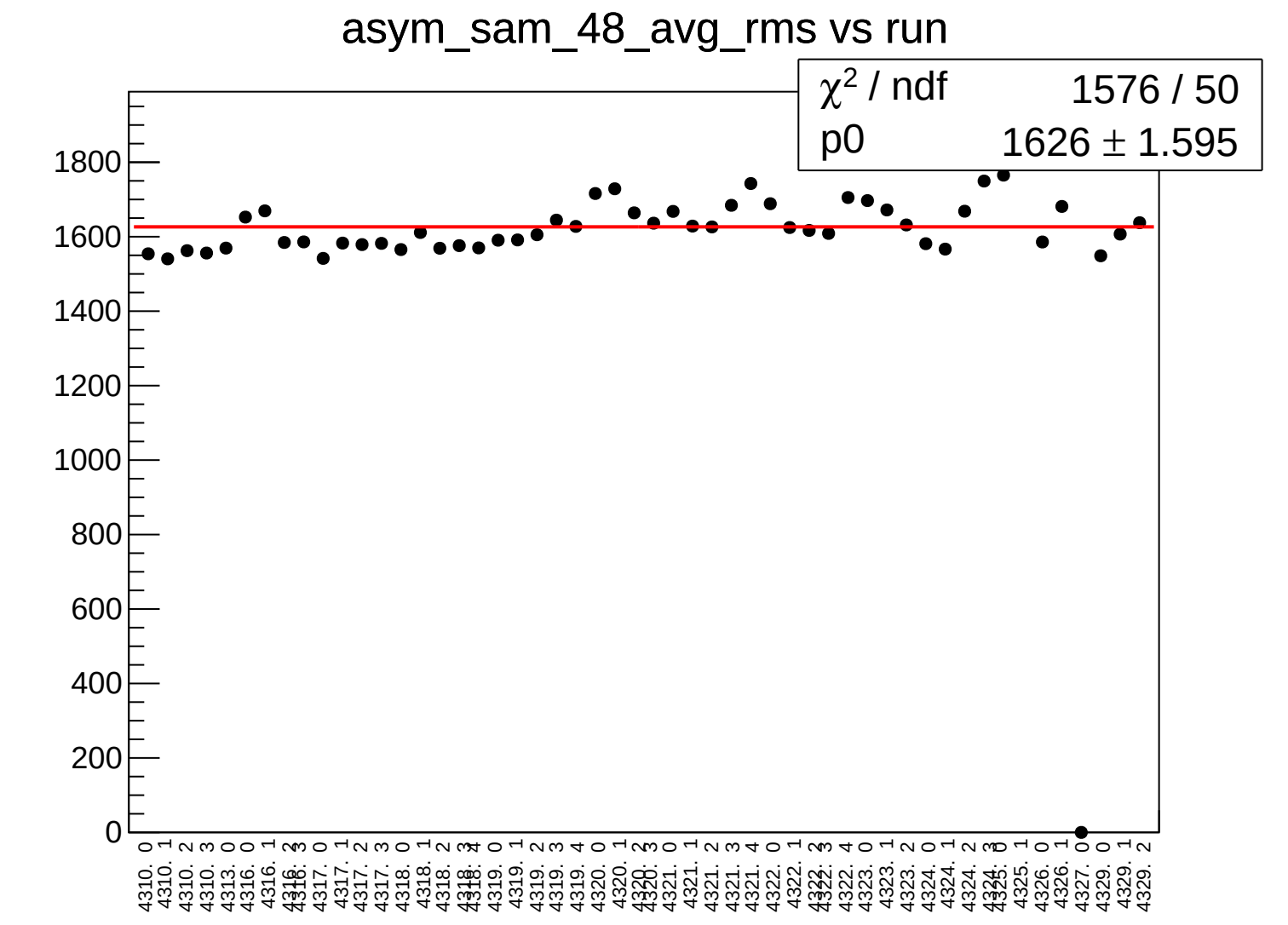

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 56.94 / 50
p0 −2246 ± 4735
150
100
50
0
−50
−100

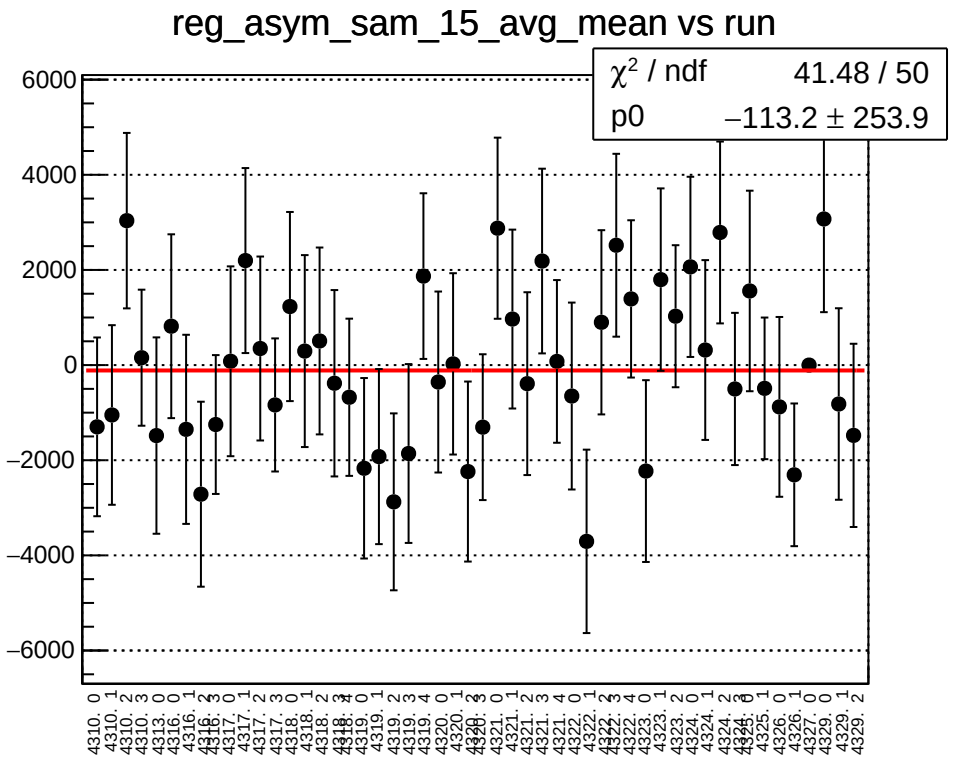

pull1D
Entries 52
Mean 0.02011
Std Dev 1.056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

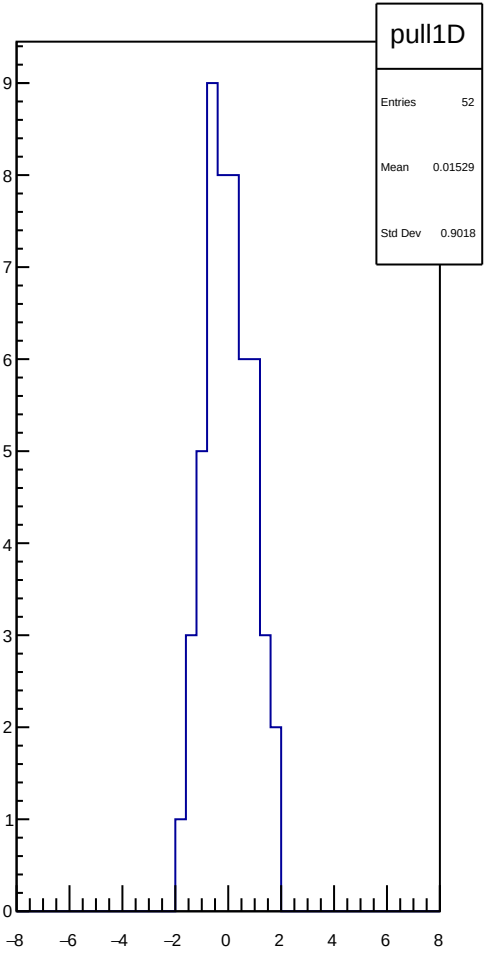

asym_sam_37_avg_rms vs run
χ² / ndf 1125 / 50
p0 3416 ± 3.348
4000
3500
3000
2500
2000
1500
1000
500
0

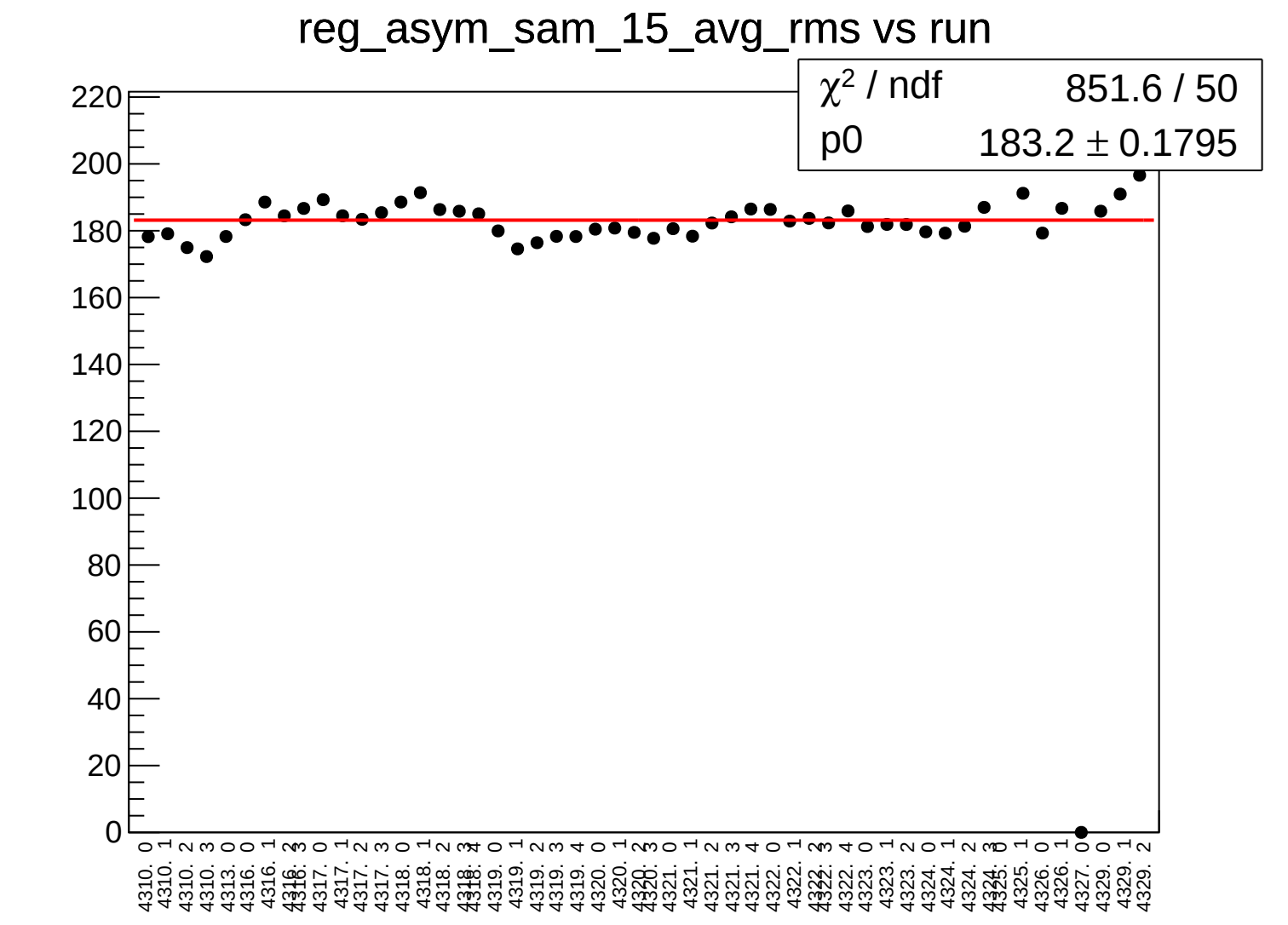

asym_sam_48_avg_mean vs run
χ² / ndf 58.32 / 50
p0 −1720 ± 2255
60000
40000
20000
0
−20000
−40000
−60000

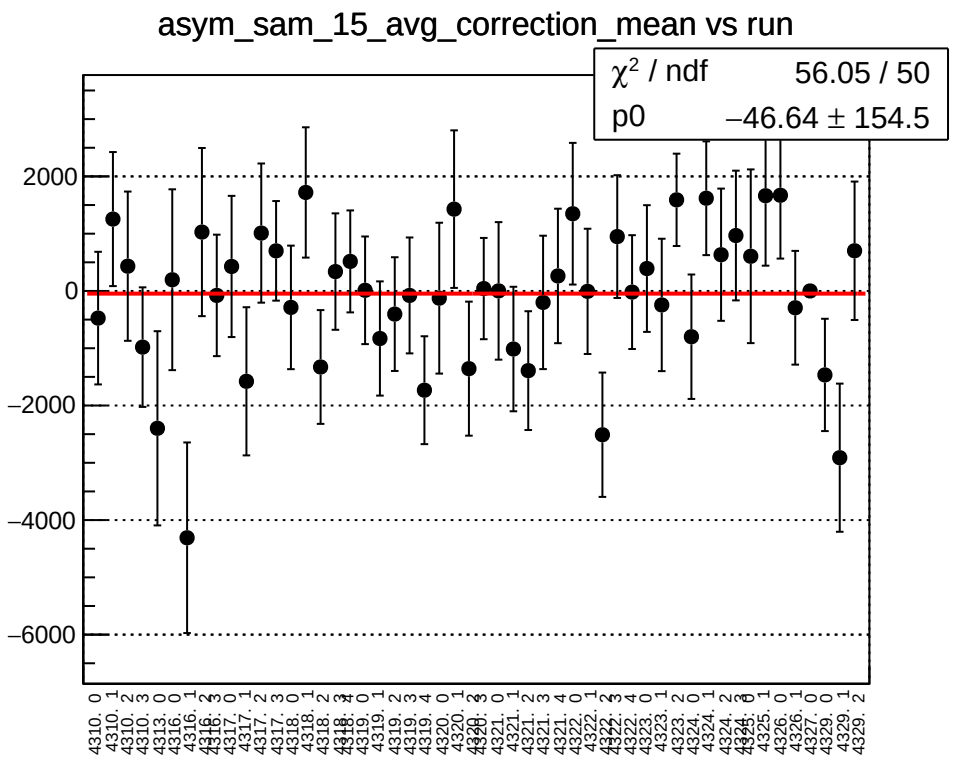

pull1D
Entries 52
Mean 0.01967
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

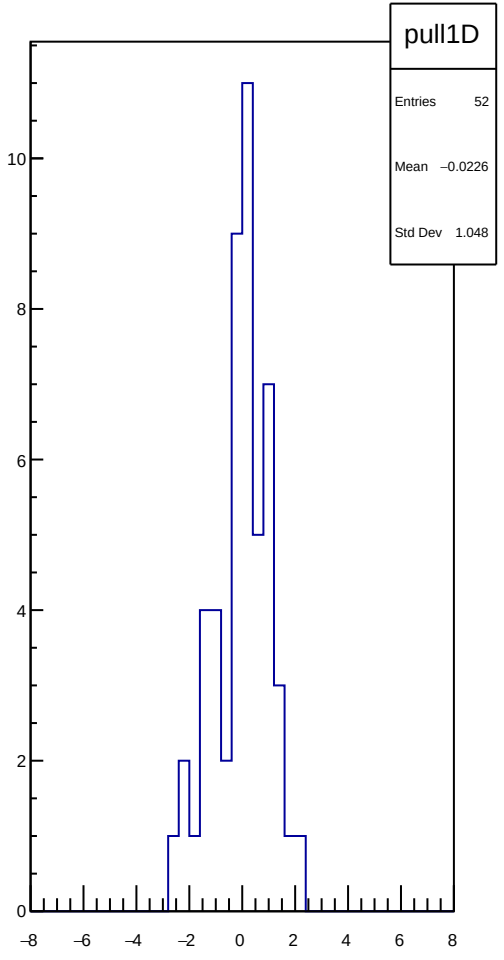

asym_sam_48_avg_rms vs run
χ² / ndf 1576 / 50
p0 1626 ± 1.595
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

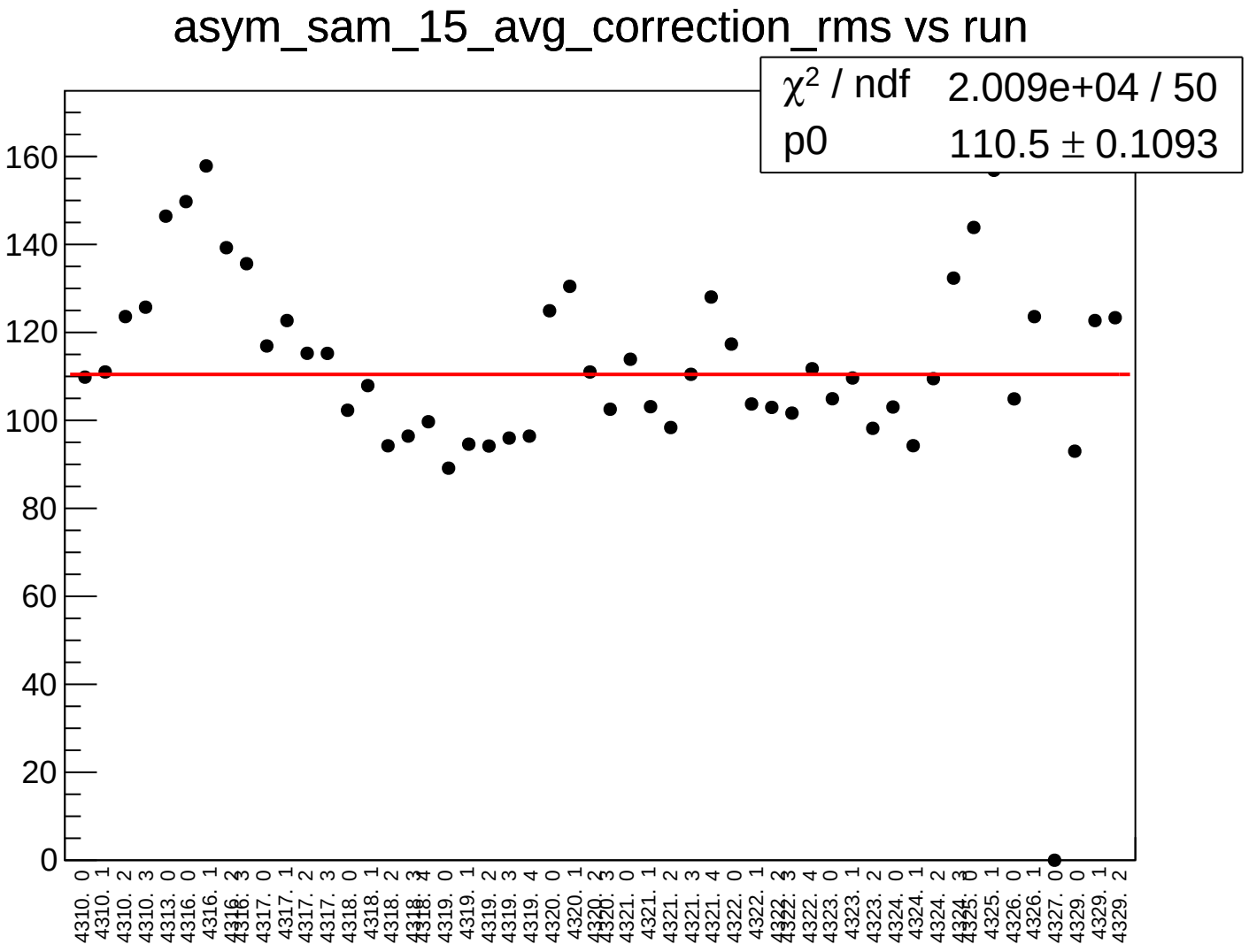

reg_asym_sam_15_avg_mean vs run
χ² / ndf 41.48 / 50
p0 −113.2 ± 253.9
6000
4000
2000
0
−2000
−4000
−6000

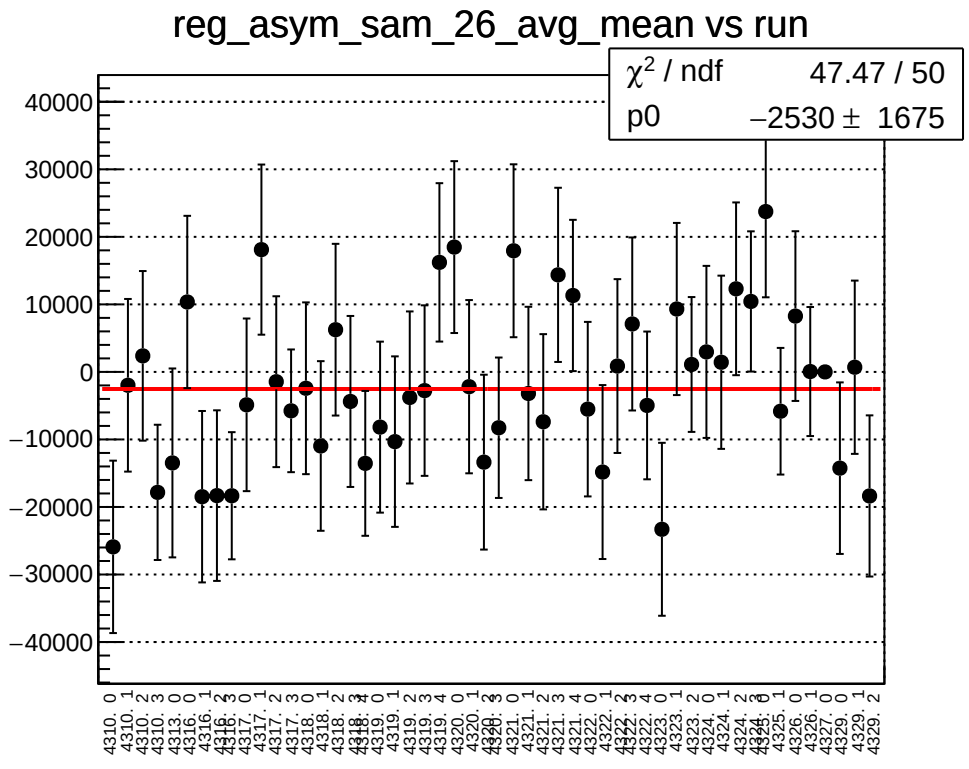

pull1D
Entries 52
Mean 0.01529
Std Dev 0.9018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

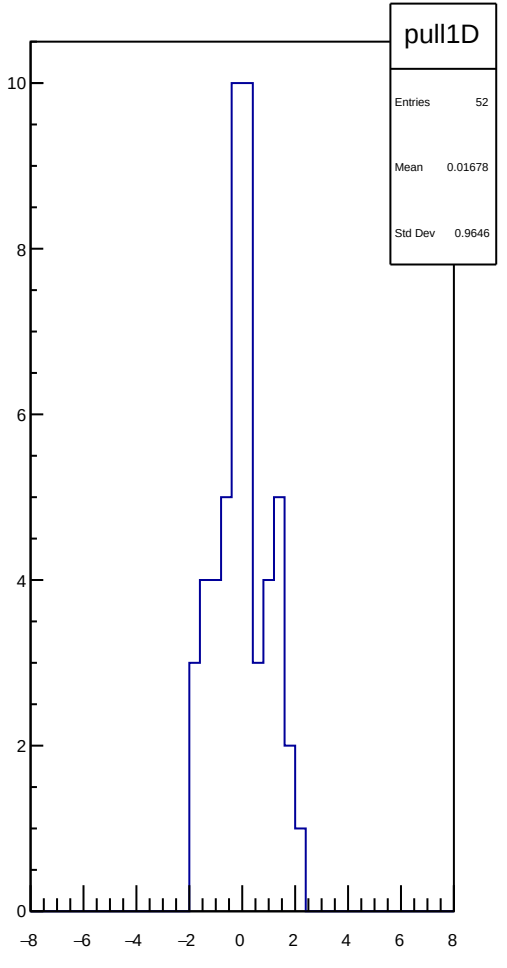

reg_asym_sam_15_avg_rms vs run
χ² / ndf 851.6 / 50
p0 183.2 ± 0.1795
220
200
180
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

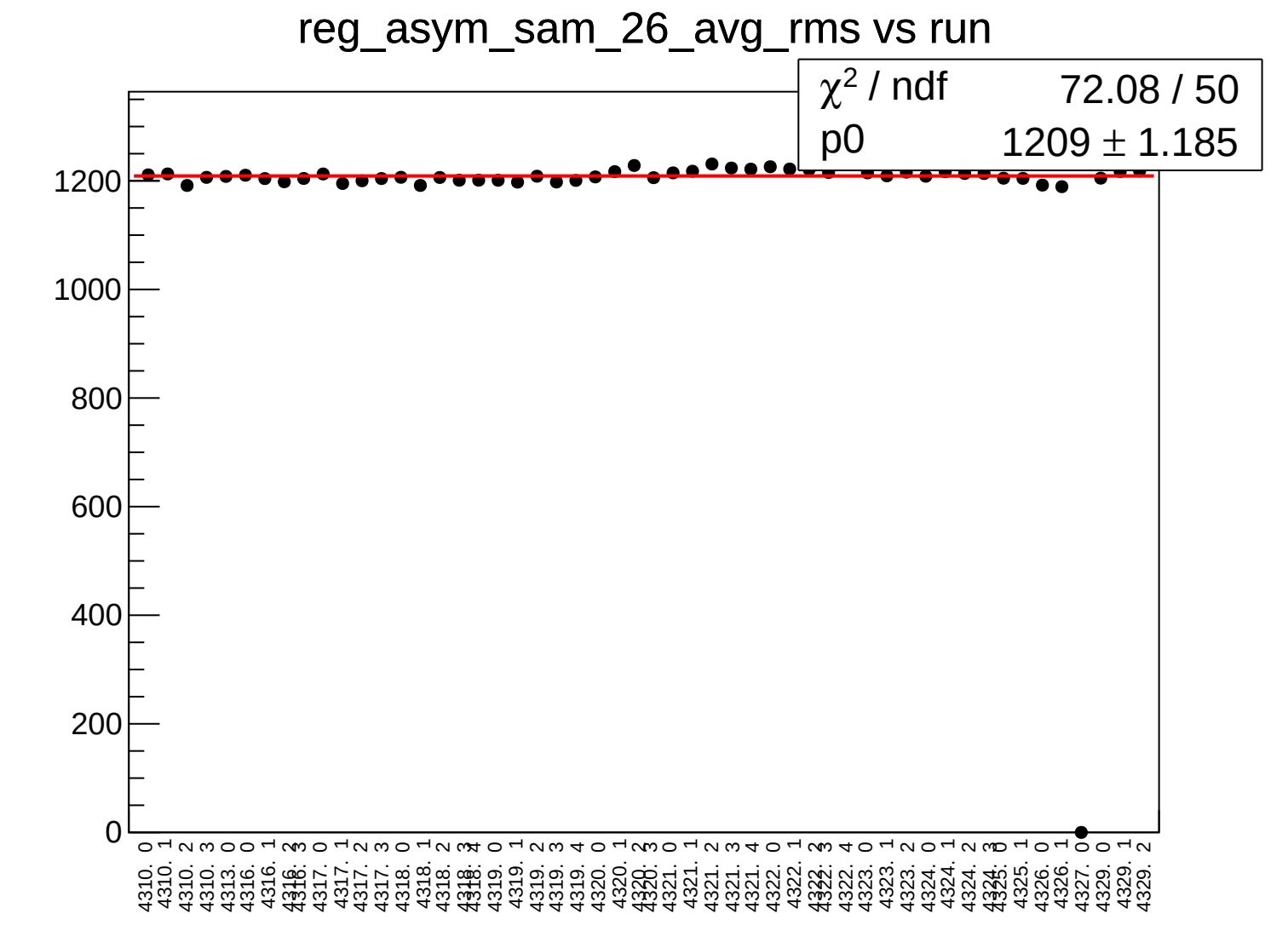

asym_sam_15_avg_correction_mean vs run
χ² / ndf 56.05 / 50
p0 −46.64 ± 154.5
2000
0
−2000
−4000
−6000

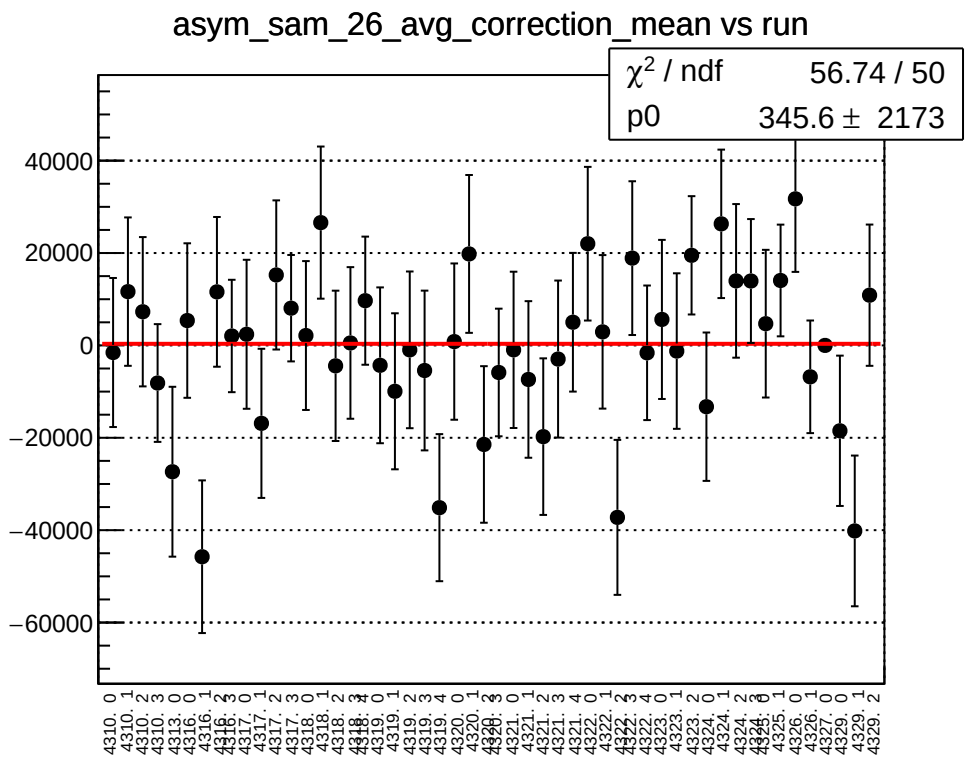

pull1D
Entries 52
Mean −0.0226
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

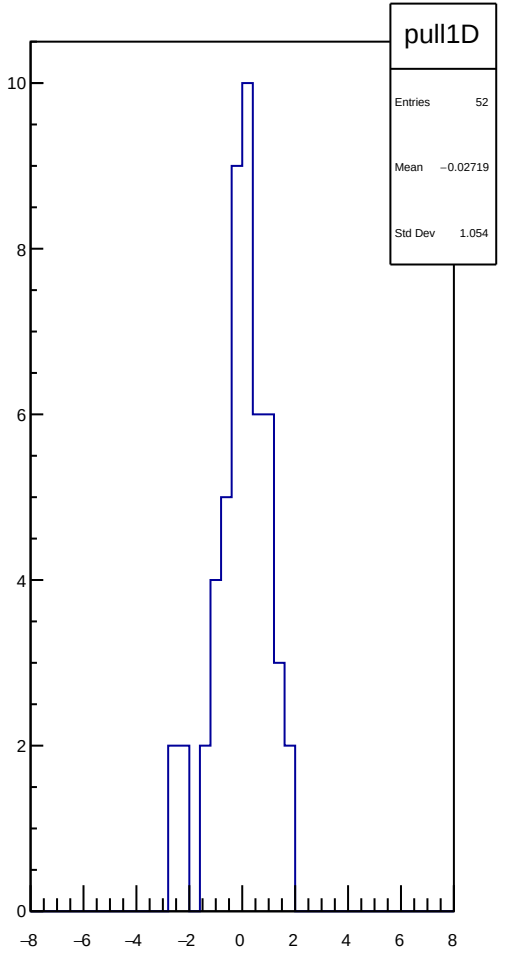

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2.009e+04 / 50
p0 110.5 ± 0.1093
160
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

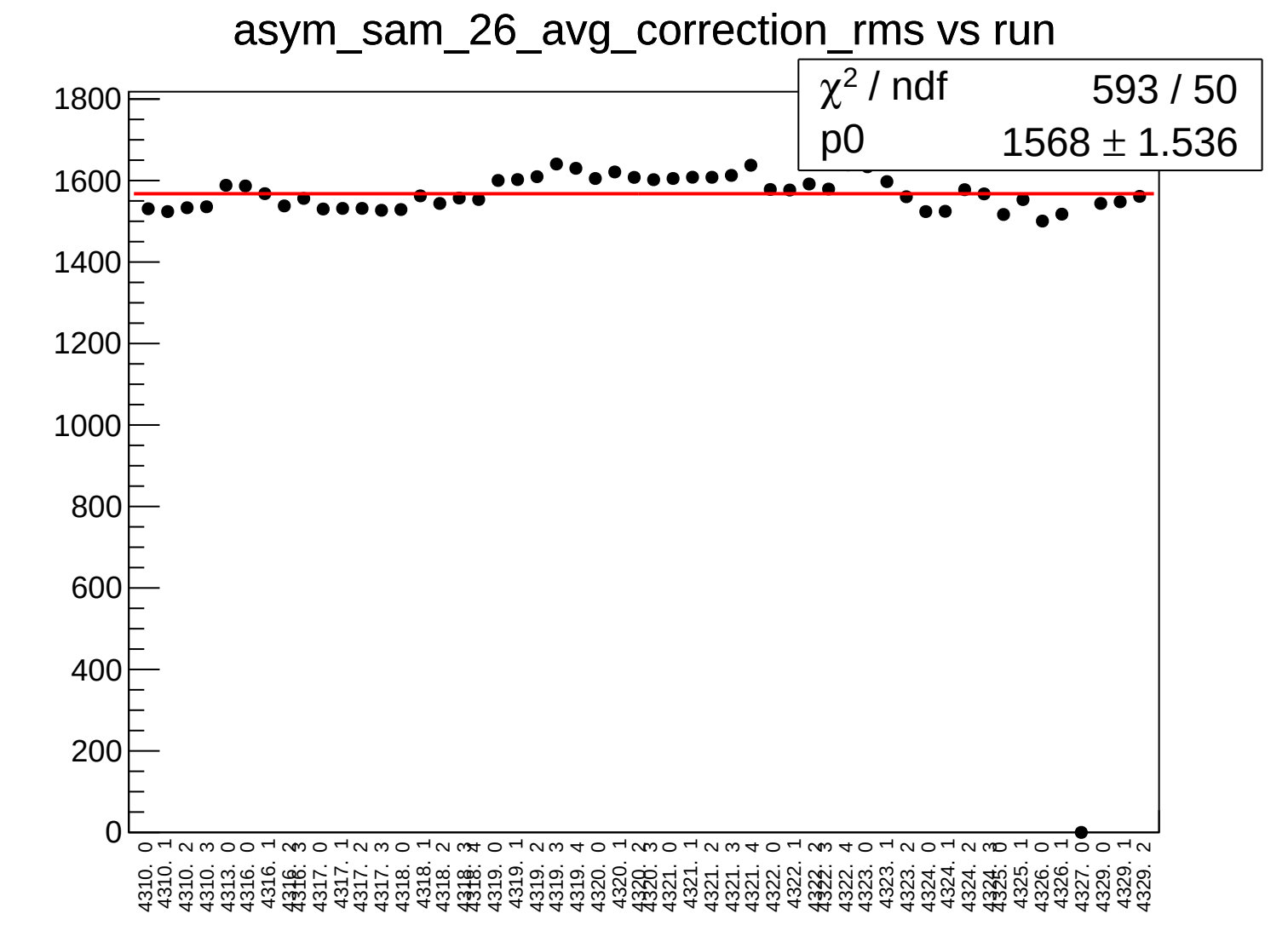

reg_asym_sam_26_avg_mean vs run
χ² / ndf 47.47 / 50
p0 −2530 ± 1675
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000

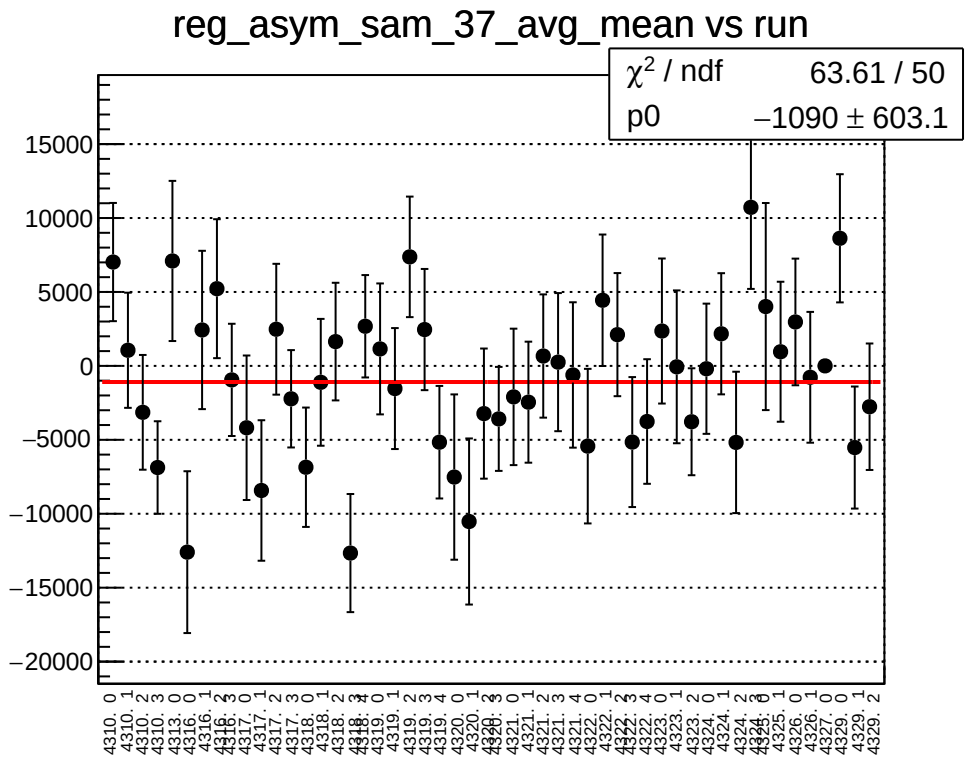

pull1D
Entries 52
Mean 0.01678
Std Dev 0.9646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

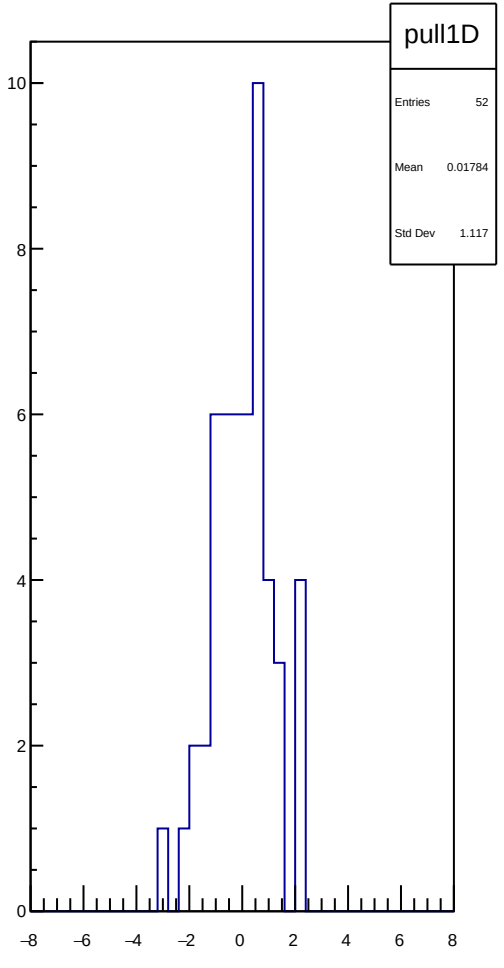

reg_asym_sam_26_avg_rms vs run
χ² / ndf 72.08 / 50
p0 1209 ± 1.185
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

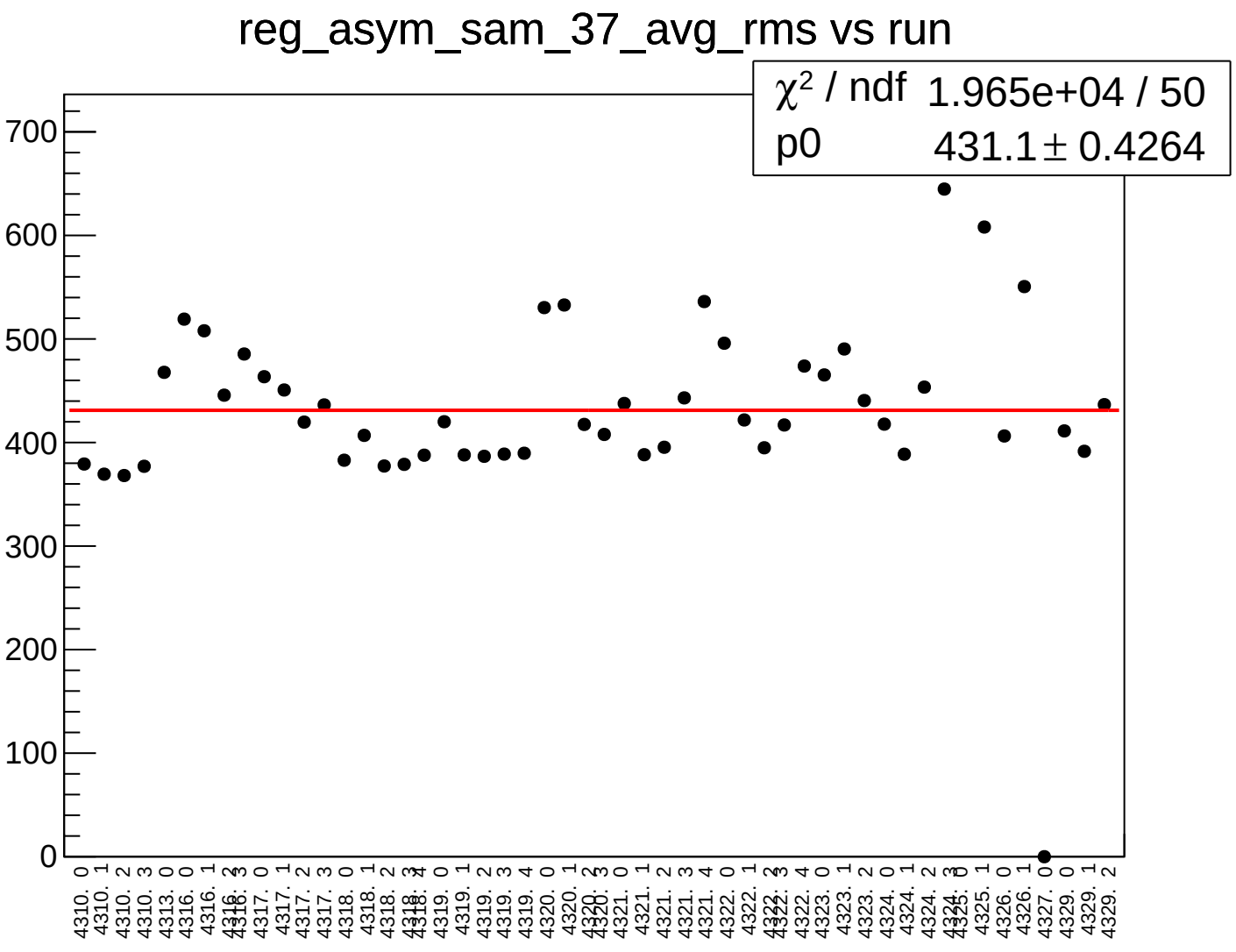

asym_sam_26_avg_correction_mean vs run
χ² / ndf 56.74 / 50
p0 345.6 ± 2173
40000
20000
0
−20000
−40000
−60000

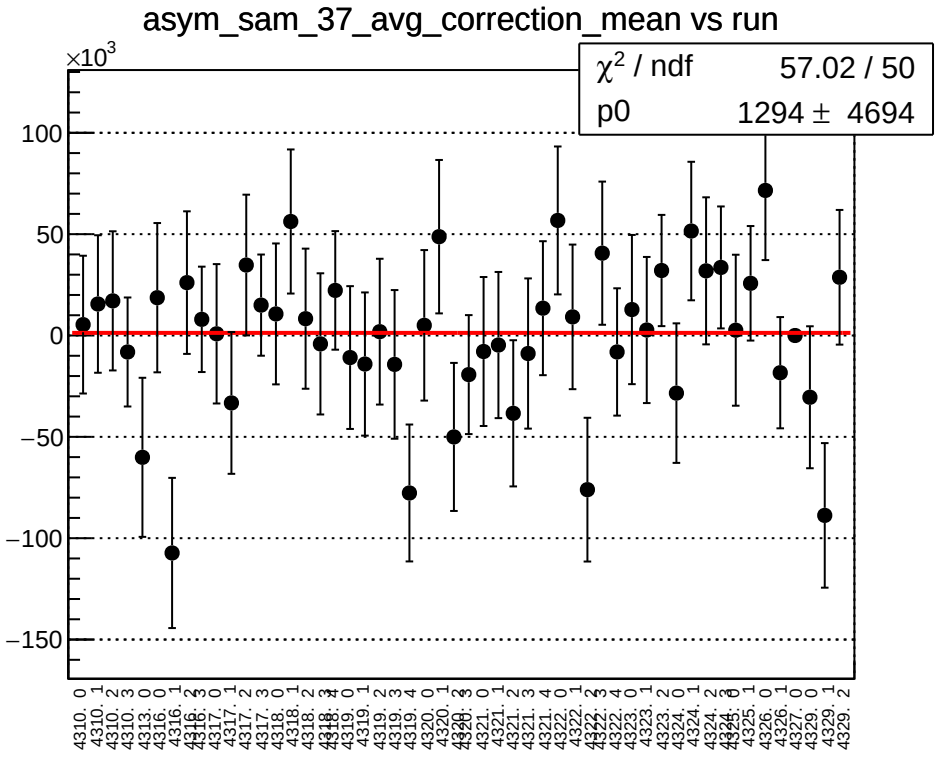

pull1D
Entries 52
Mean −0.02719
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

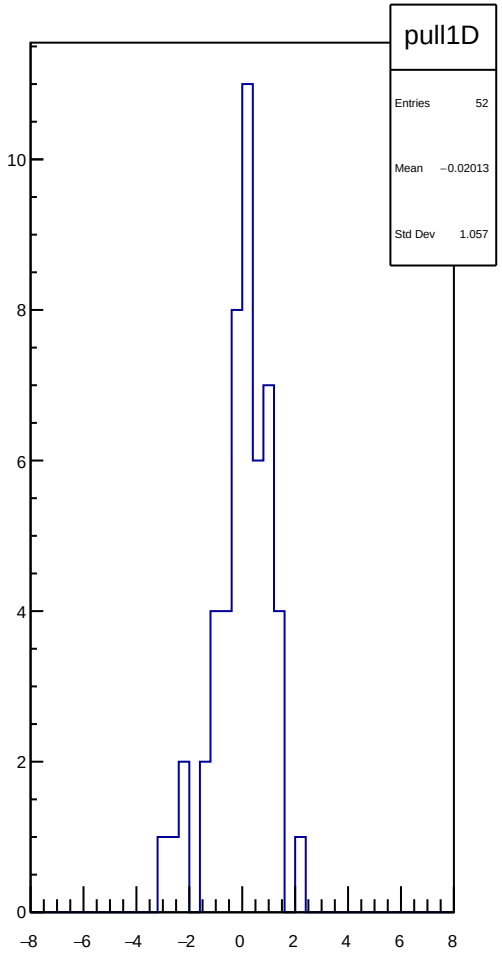

asym_sam_26_avg_correction_rms vs run
χ² / ndf 593 / 50
p0 1568 ± 1.536
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

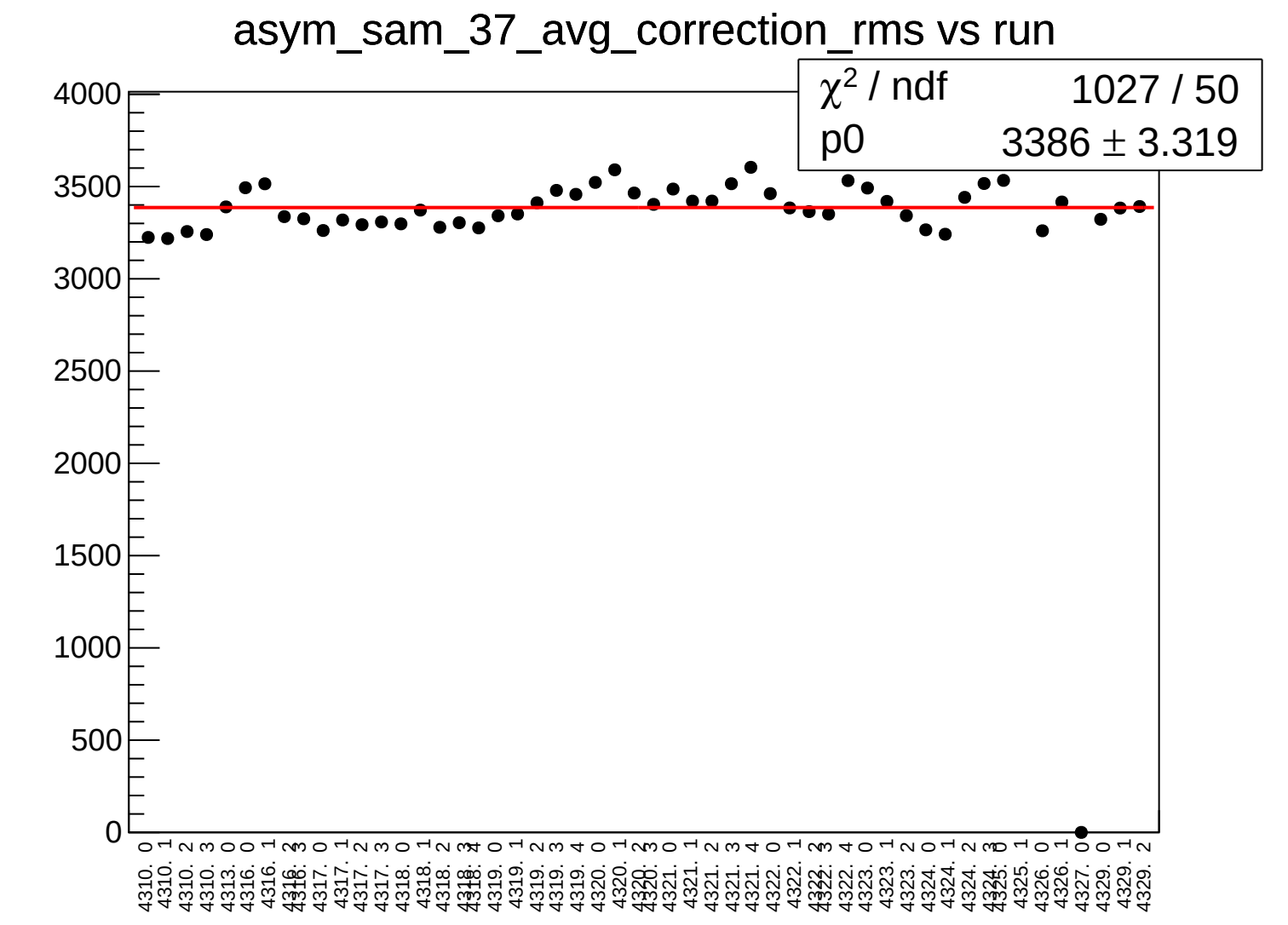

reg_asym_sam_37_avg_mean vs run
χ² / ndf 63.61 / 50
p0 −1090 ± 603.1
15000
10000
5000
0
−5000
−10000
−15000
−20000

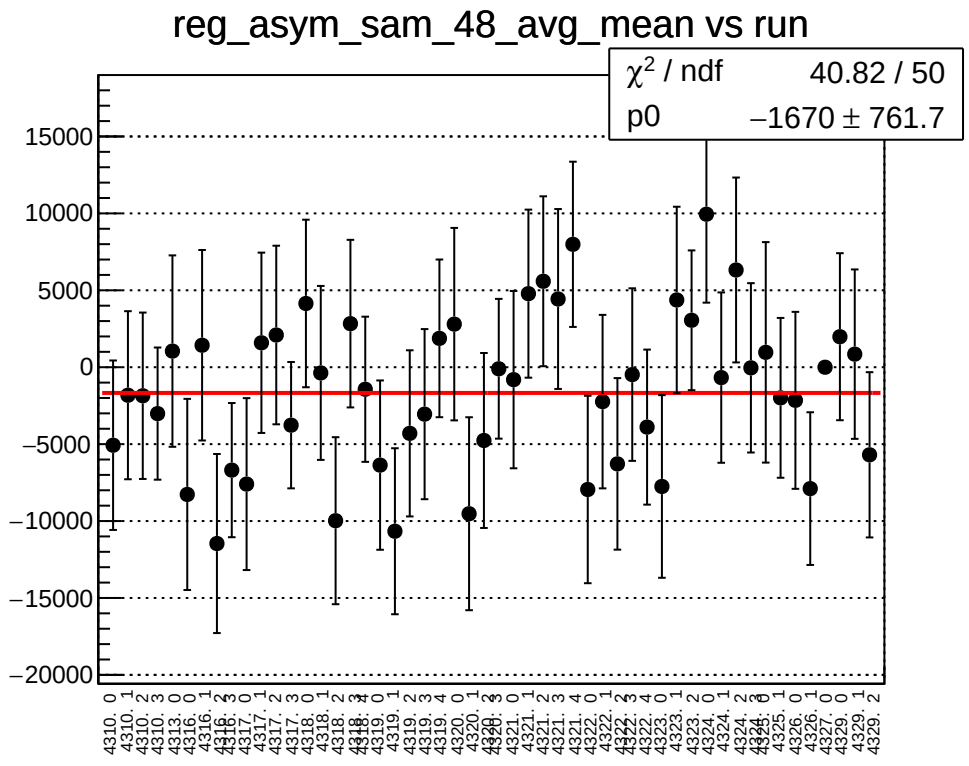

pull1D
Entries 52
Mean 0.01784
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

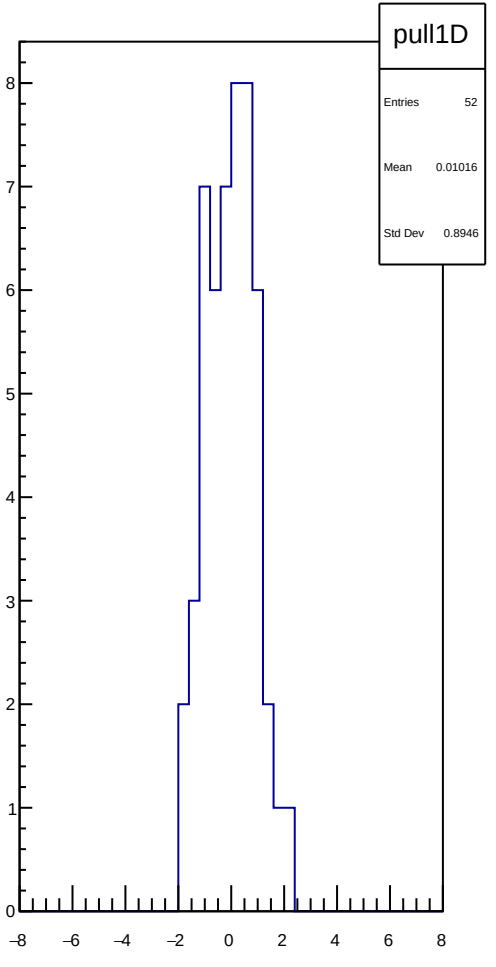

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.965e+04 / 50
p0 431.1 ± 0.4264
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

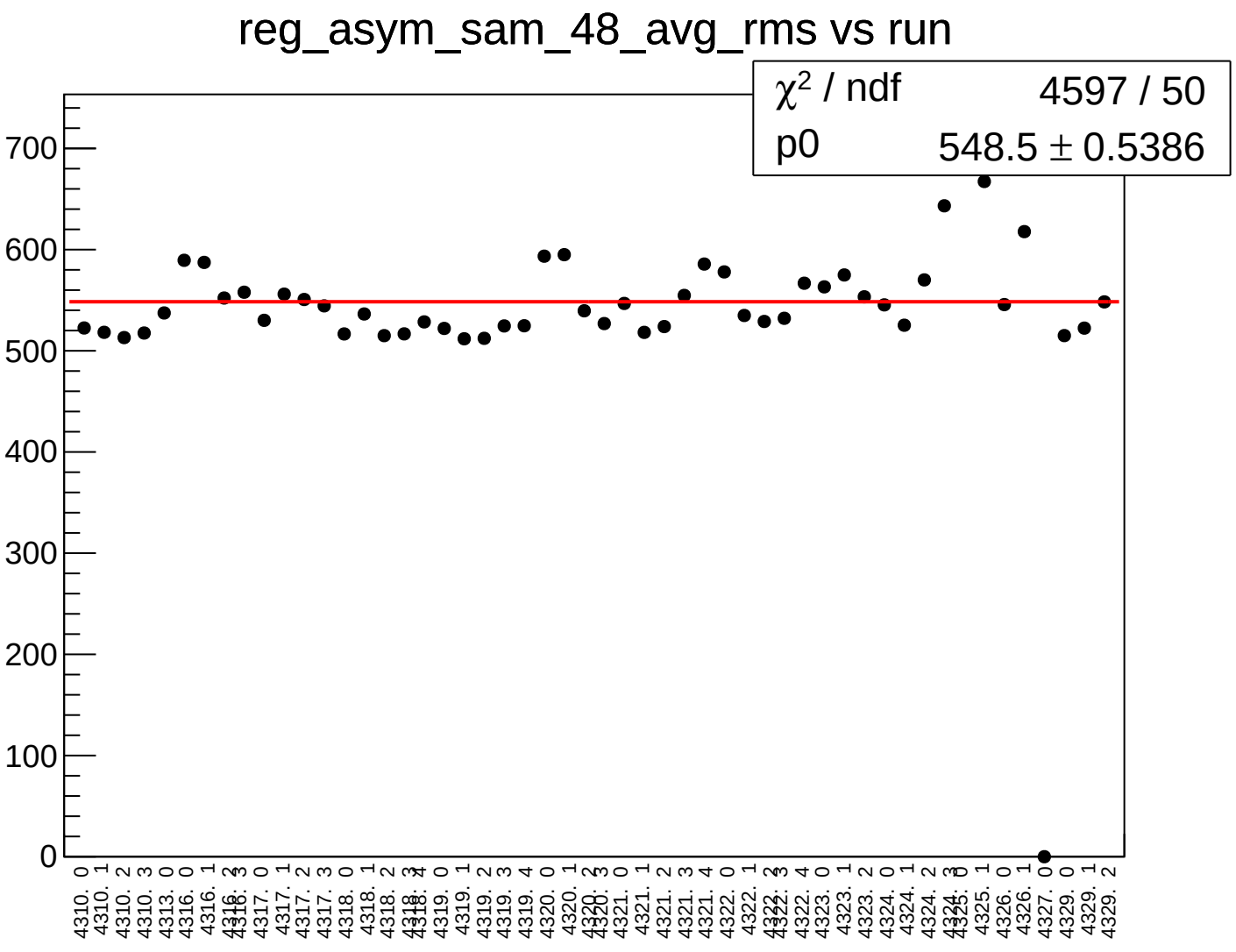

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 57.02 / 50
p0 1294 ± 4694
100
50
0
−50
−100
−150

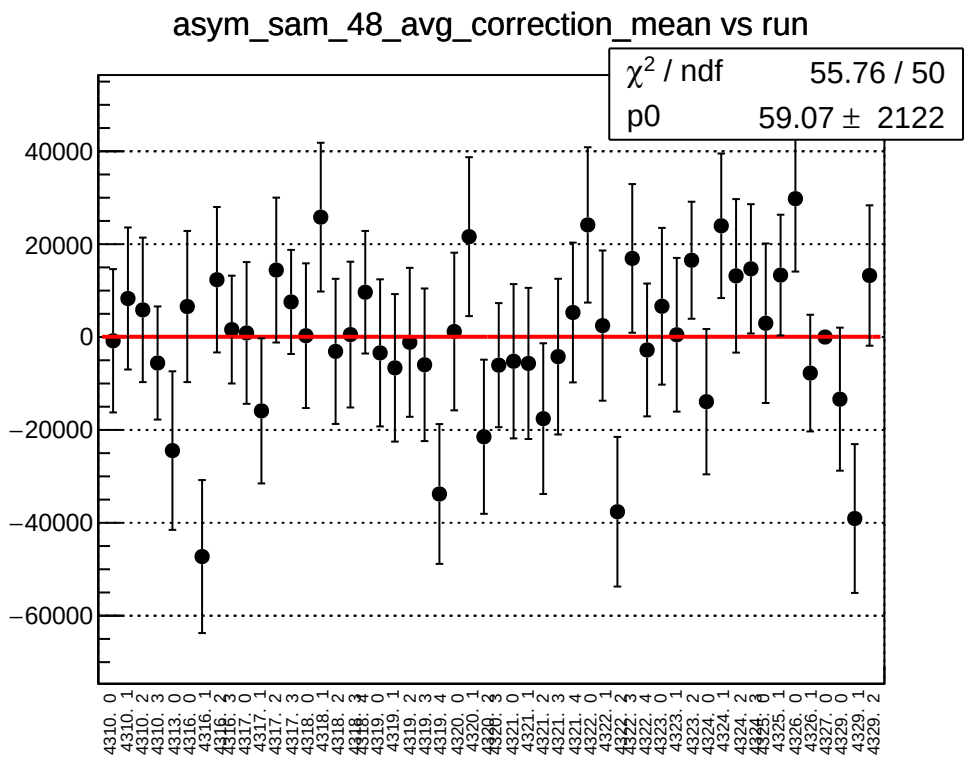

pull1D
Entries 52
Mean −0.02013
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

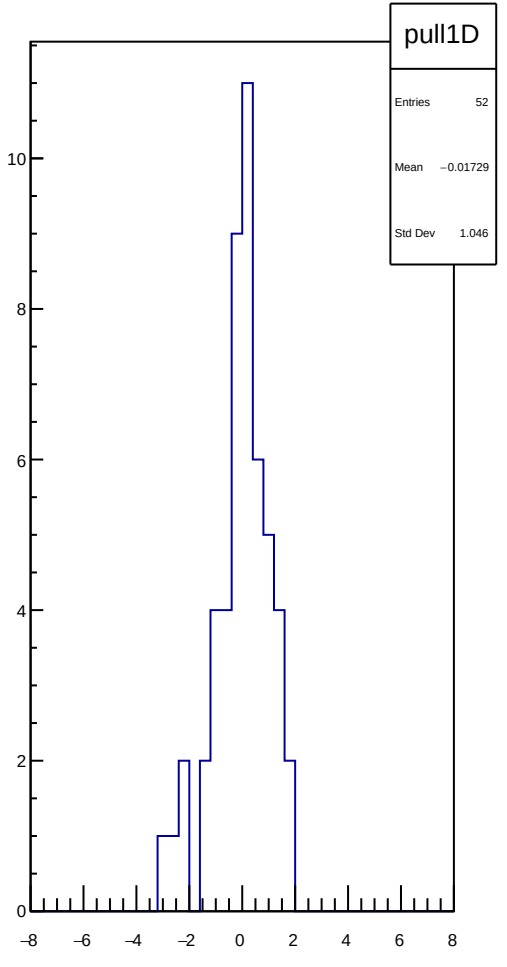

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1027 / 50
p0 3386 ± 3.319
4000
3500
3000
2500
2000
1500
1000
500
0

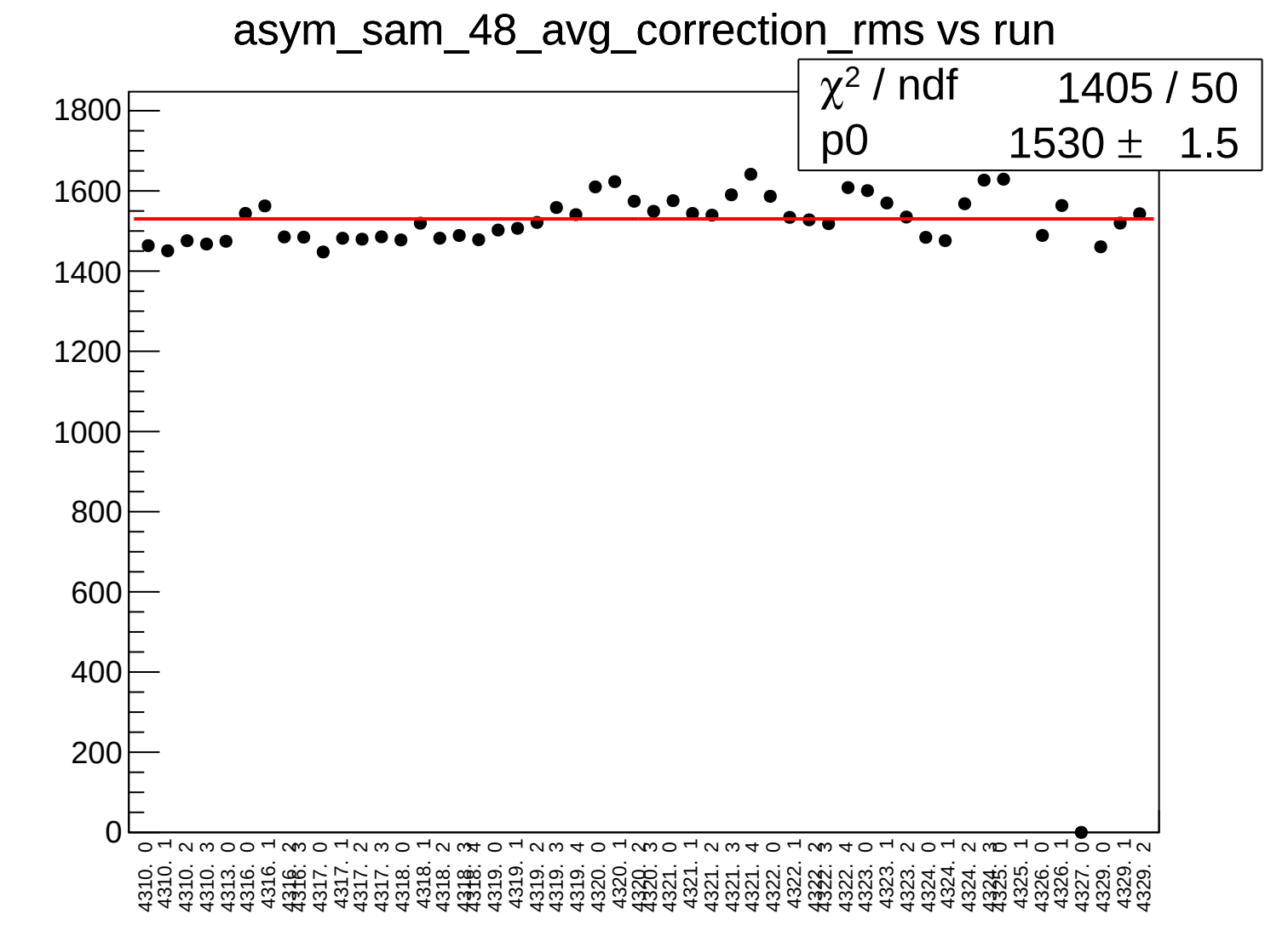

reg_asym_sam_48_avg_mean vs run
χ² / ndf 40.82 / 50
p0 −1670 ± 761.7
15000
10000
5000
0
−5000
−10000
−15000
−20000

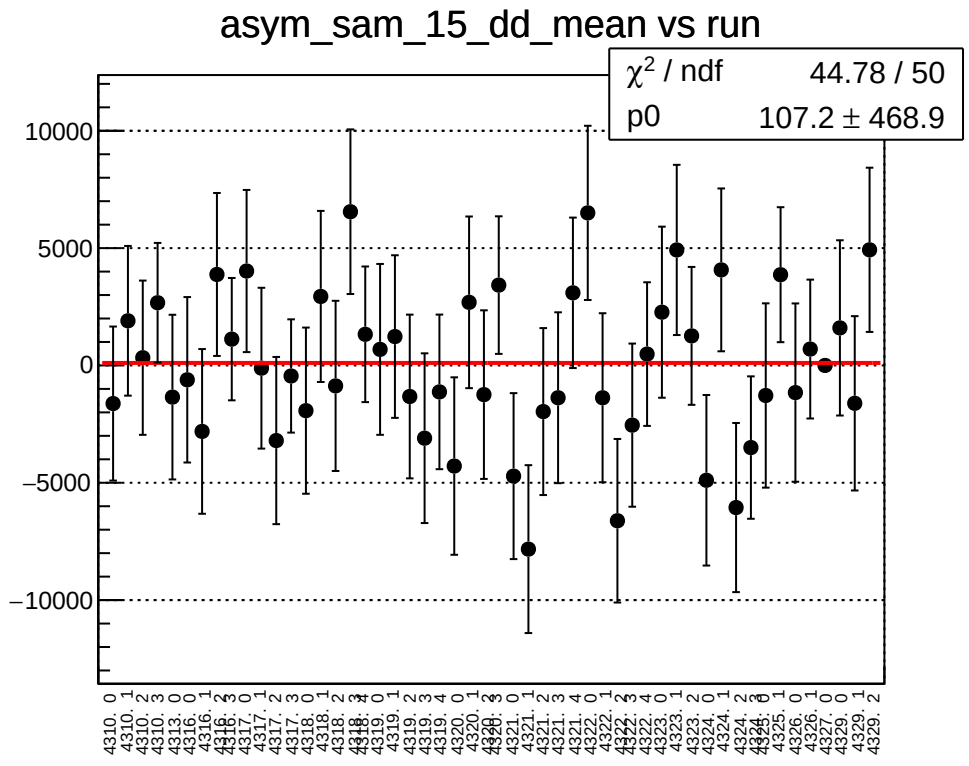

pull1D
Entries 52
Mean 0.01016
Std Dev 0.8946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

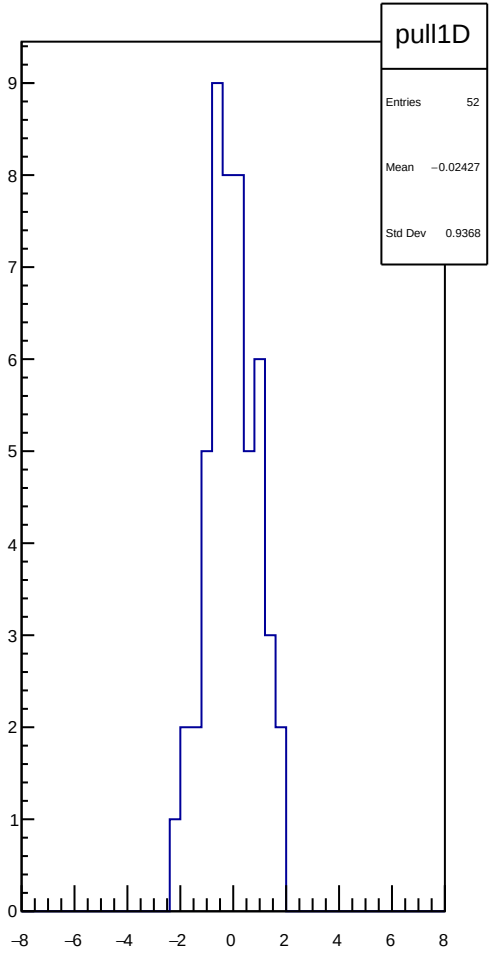

reg_asym_sam_48_avg_rms vs run
χ² / ndf 4597 / 50
p0 548.5 ± 0.5386
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

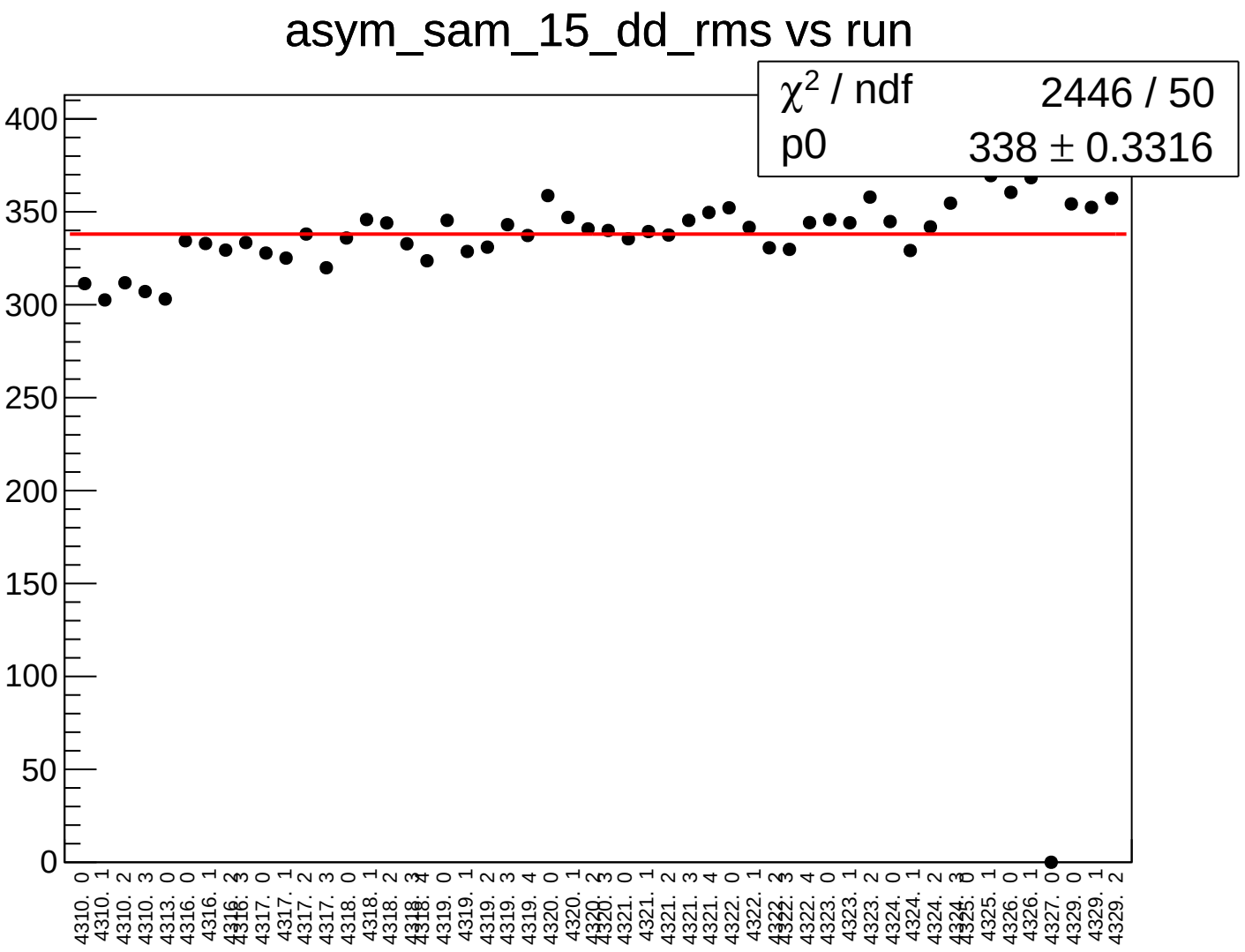

asym_sam_48_avg_correction_mean vs run
χ² / ndf 55.76 / 50
p0 59.07 ± 2122
40000
20000
0
−20000
−40000
−60000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

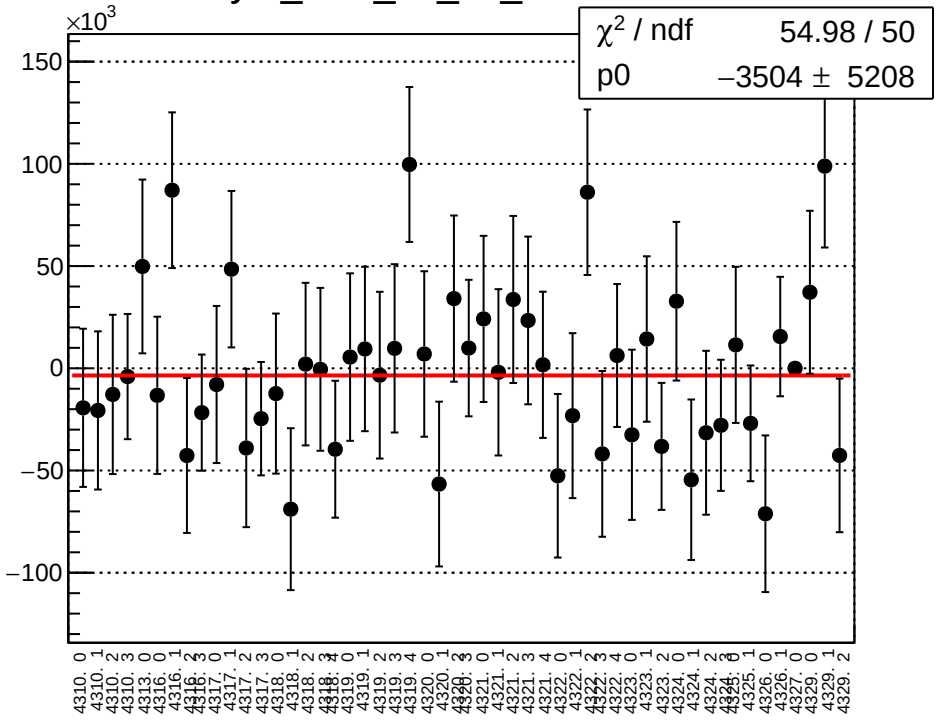

pull1D
Entries 52
Mean −0.01729
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

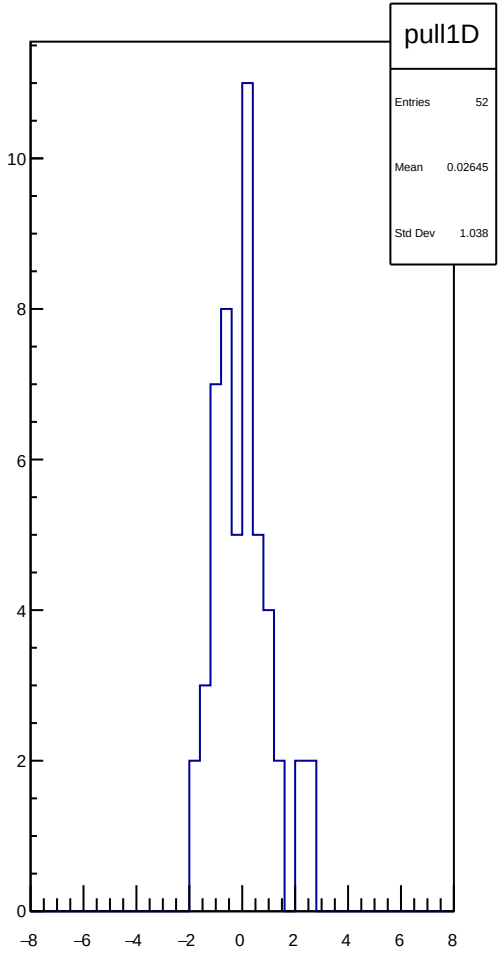

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1405 / 50
p0 1530 ± 1.5
1800
1600
1400
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

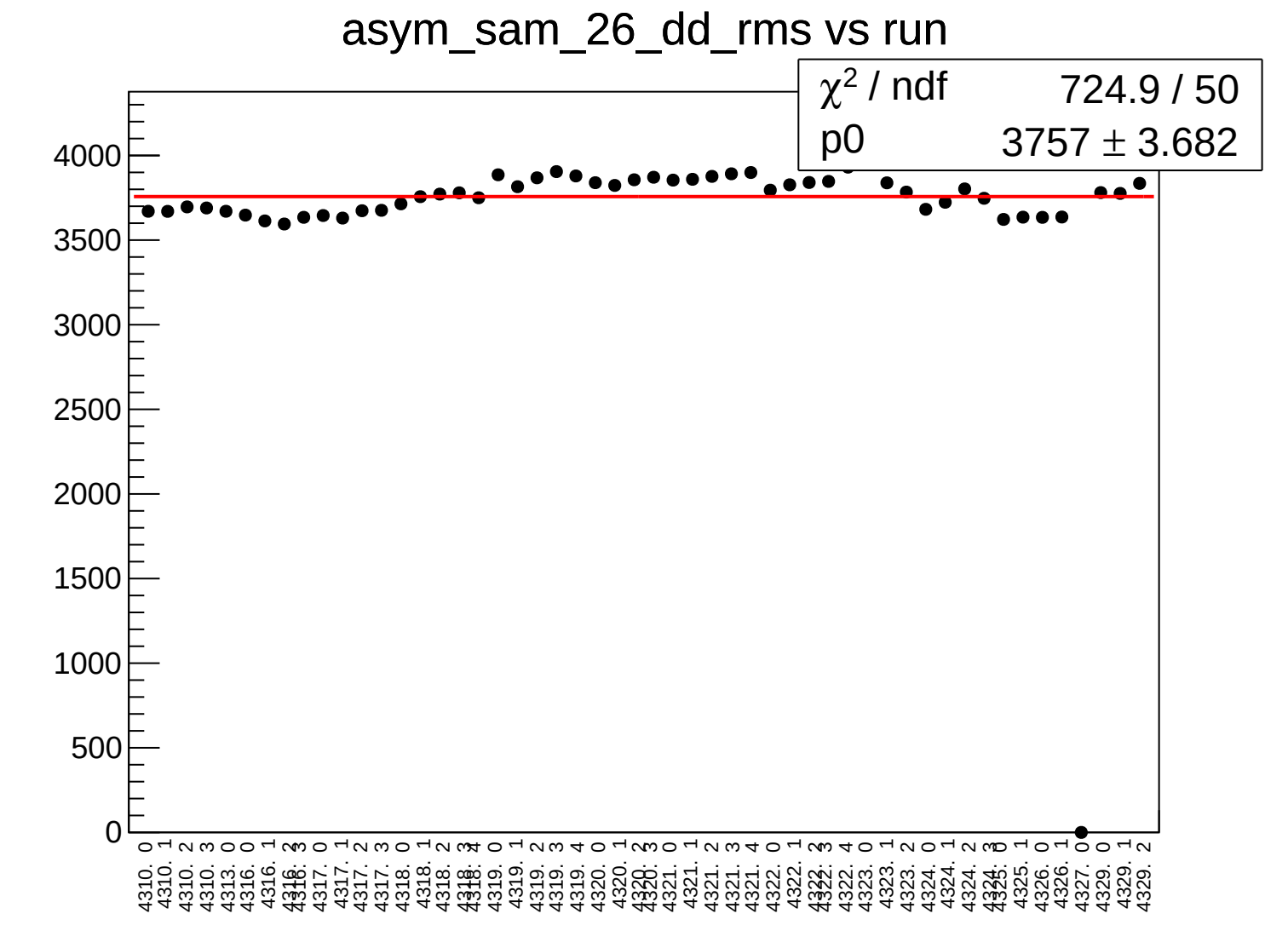

asym_sam_15_dd_mean vs run
χ² / ndf 44.78 / 50
p0 107.2 ± 468.9
10000
5000
0
−5000
−10000

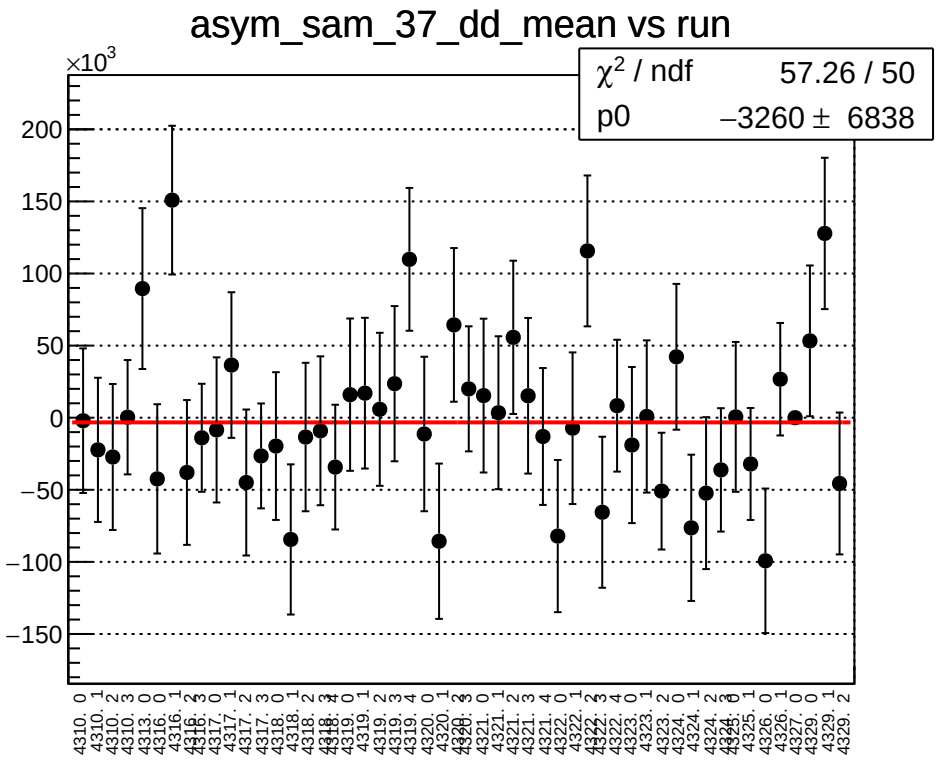

pull1D
Entries 52
Mean −0.02427
Std Dev 0.9368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

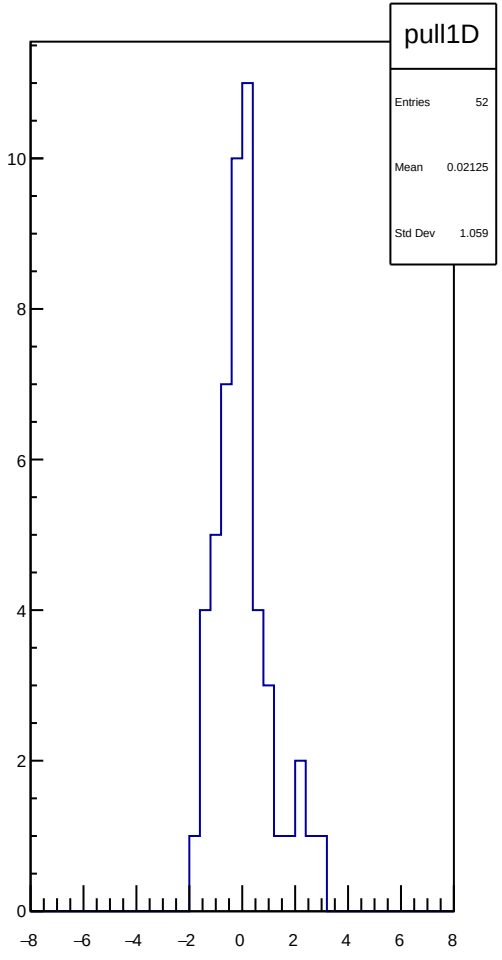

asym_sam_15_dd_rms vs run
χ² / ndf 2446 / 50
p0 338 ± 0.3316
400
350
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

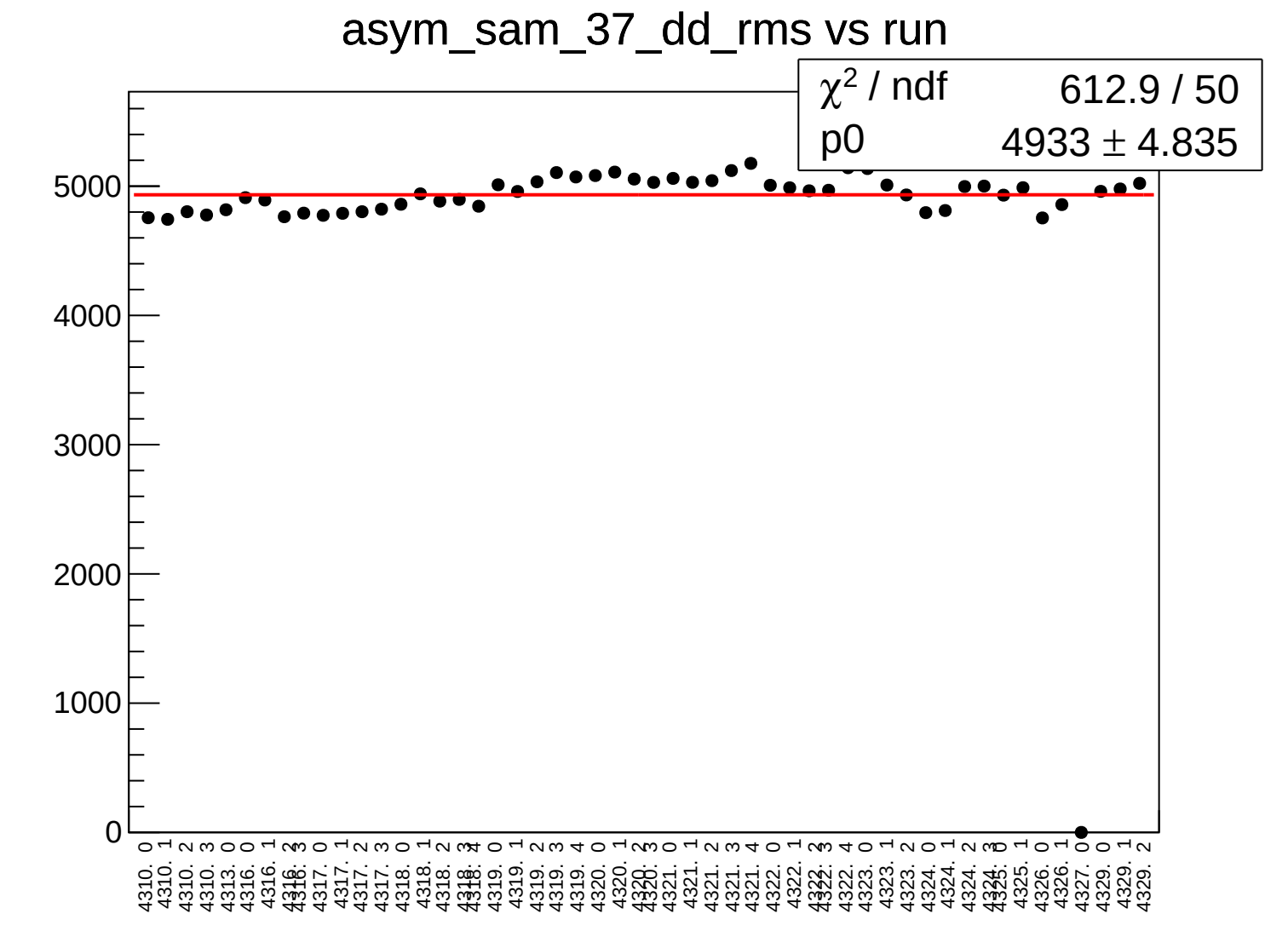

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 54.98 / 50
p0 −3504 ± 5208
150
100
50
0
−50
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

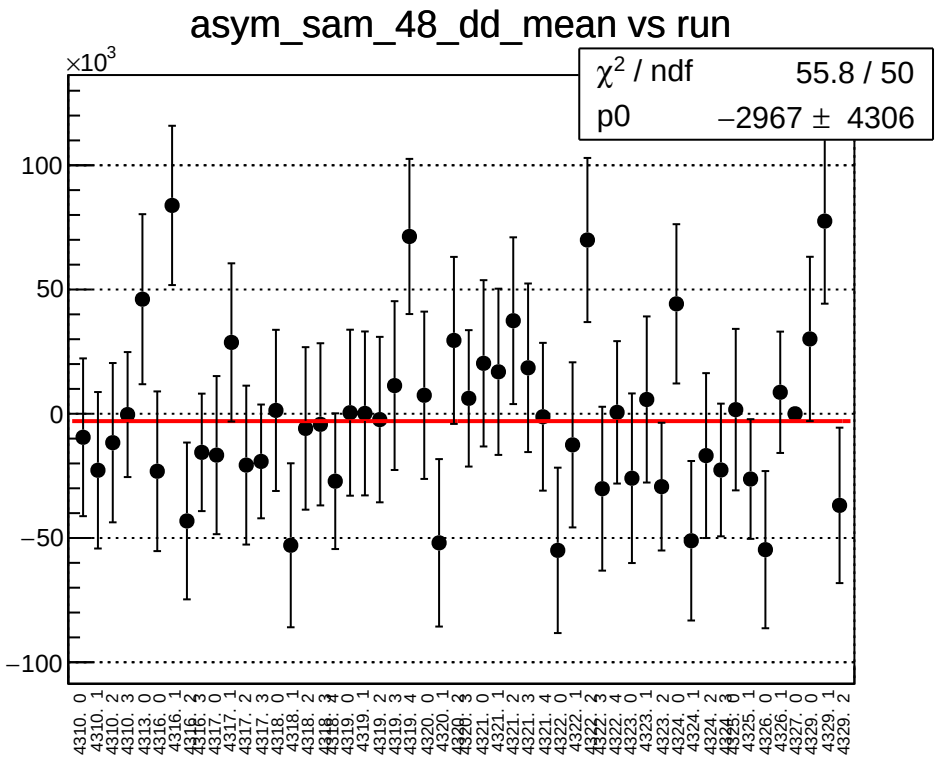

pull1D
Entries 52
Mean 0.02645
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

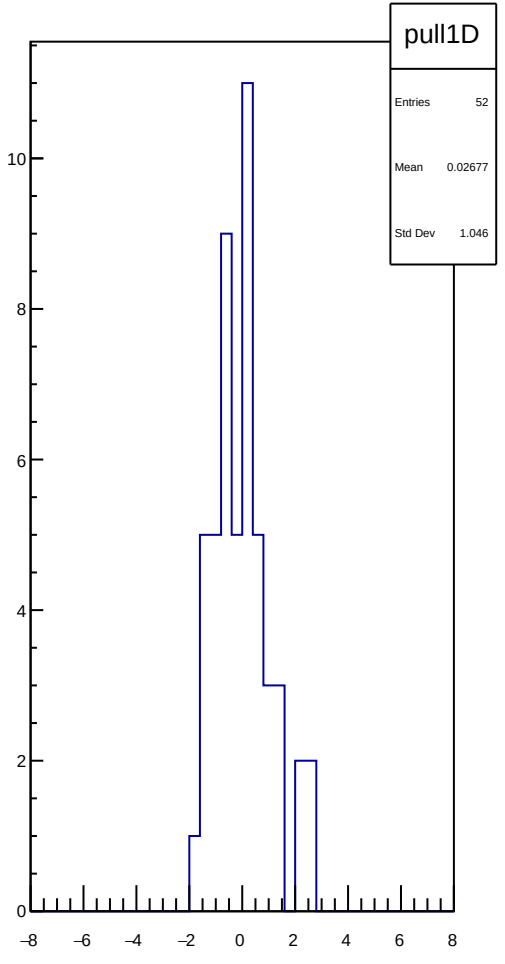

asym_sam_26_dd_rms vs run
χ² / ndf 724.9 / 50
p0 3757 ± 3.682
4000
3500
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

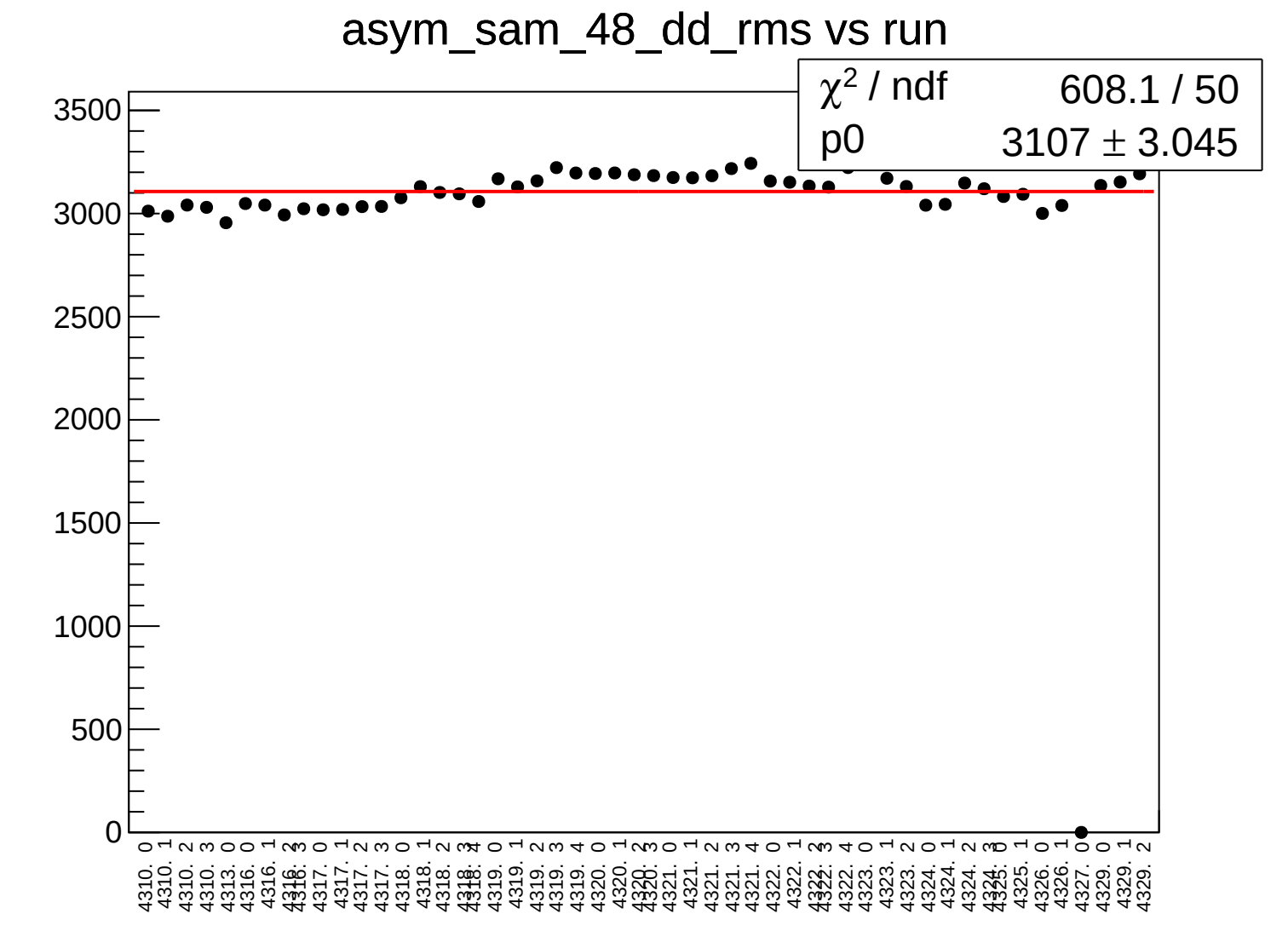

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 57.26 / 50
p0 −3260 ± 6838
200
150
100
50
0
−50
−100
−150
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

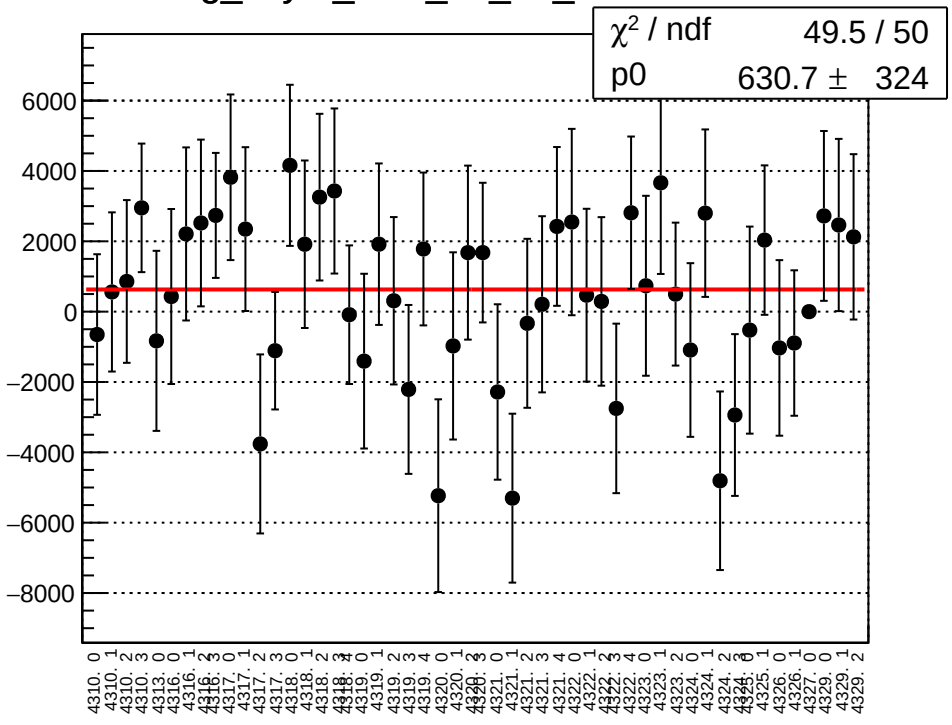

pull1D
Entries 52
Mean 0.02125
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

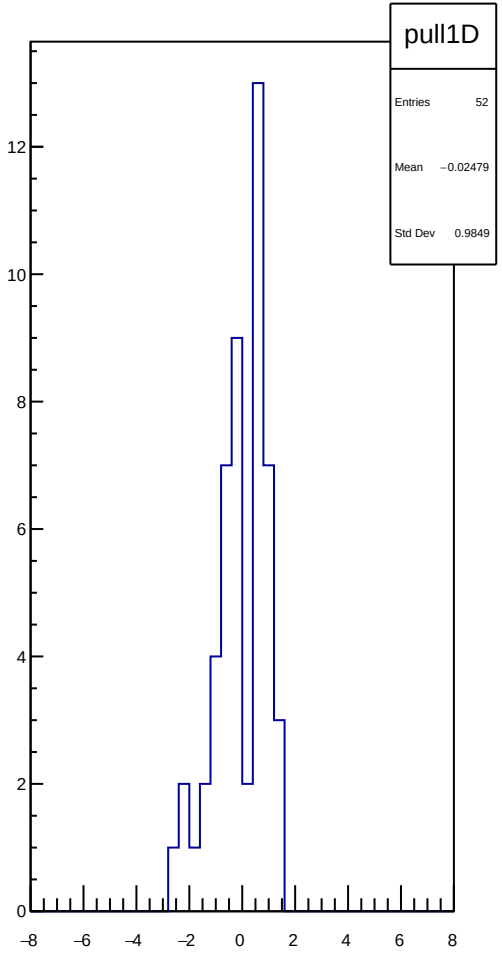

asym_sam_37_dd_rms vs run
χ² / ndf 612.9 / 50
p0 4933 ± 4.835
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

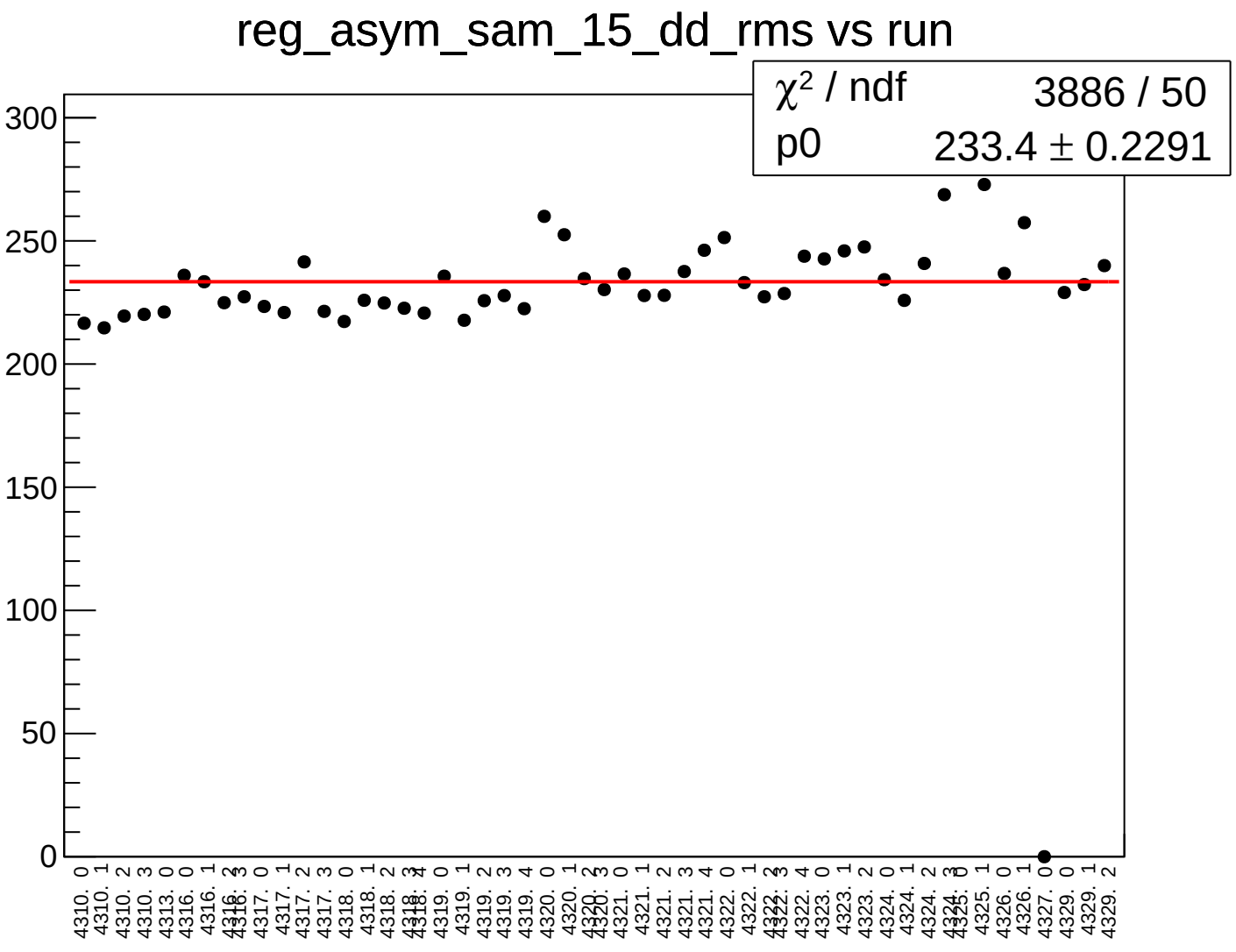

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 55.8 / 50
p0 −2967 ± 4306
100
50
0
−50
−100

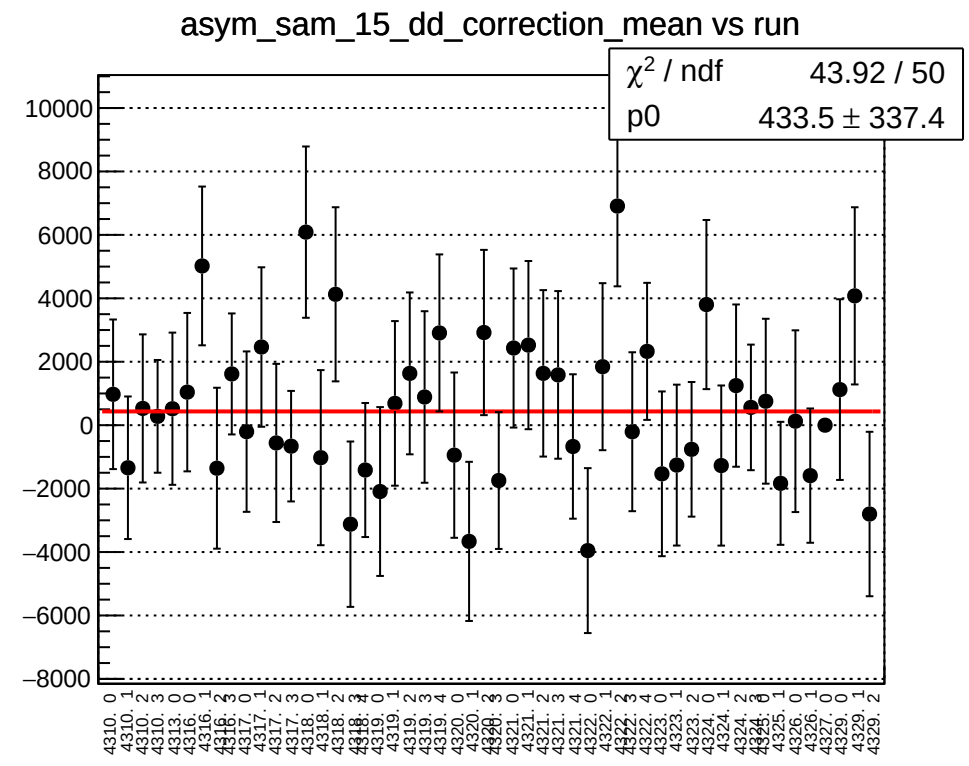

pull1D
Entries 52
Mean 0.02677
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

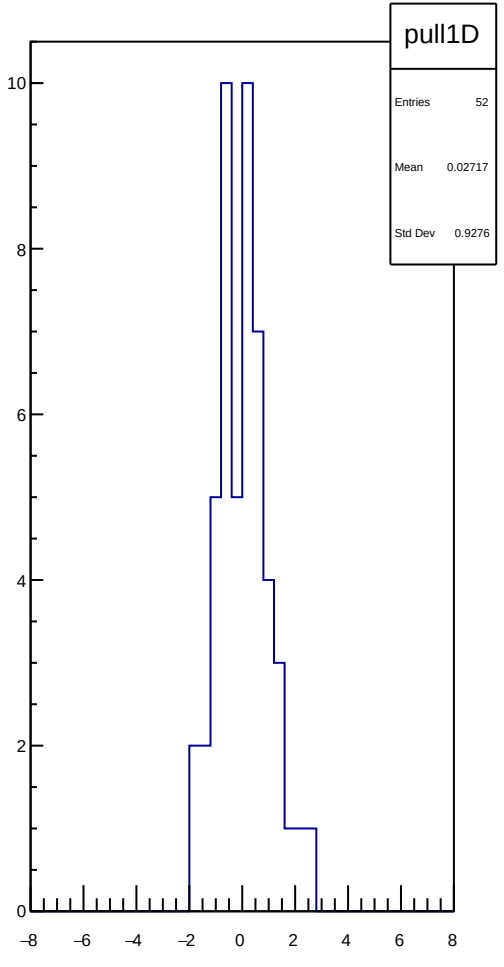

asym_sam_48_dd_rms vs run
χ² / ndf 608.1 / 50
p0 3107 ± 3.045
3500
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

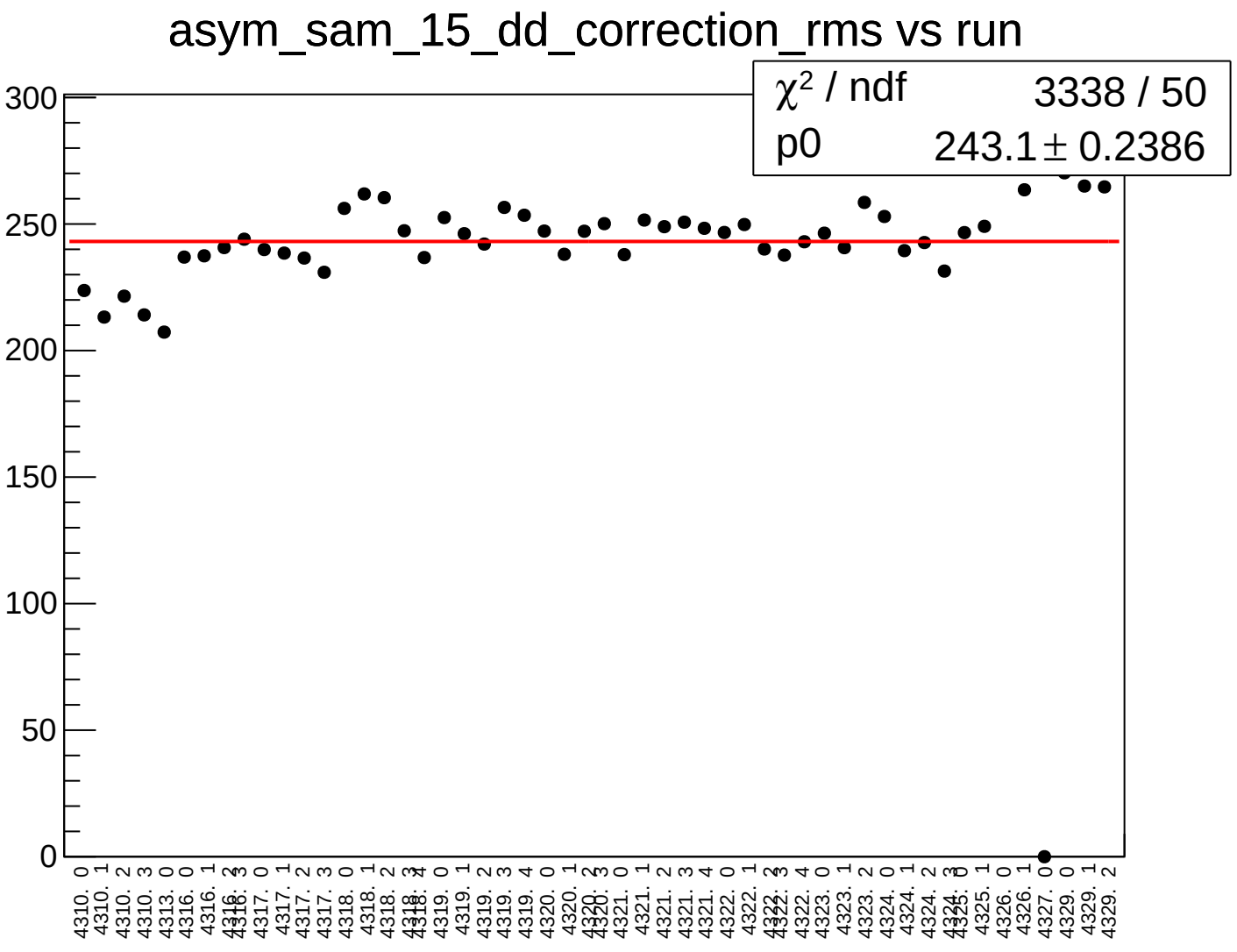

reg_asym_sam_15_dd_mean vs run
χ² / ndf 49.5 / 50
p0 630.7 ± 324
6000
4000
2000
0
−2000
−4000
−6000
−8000

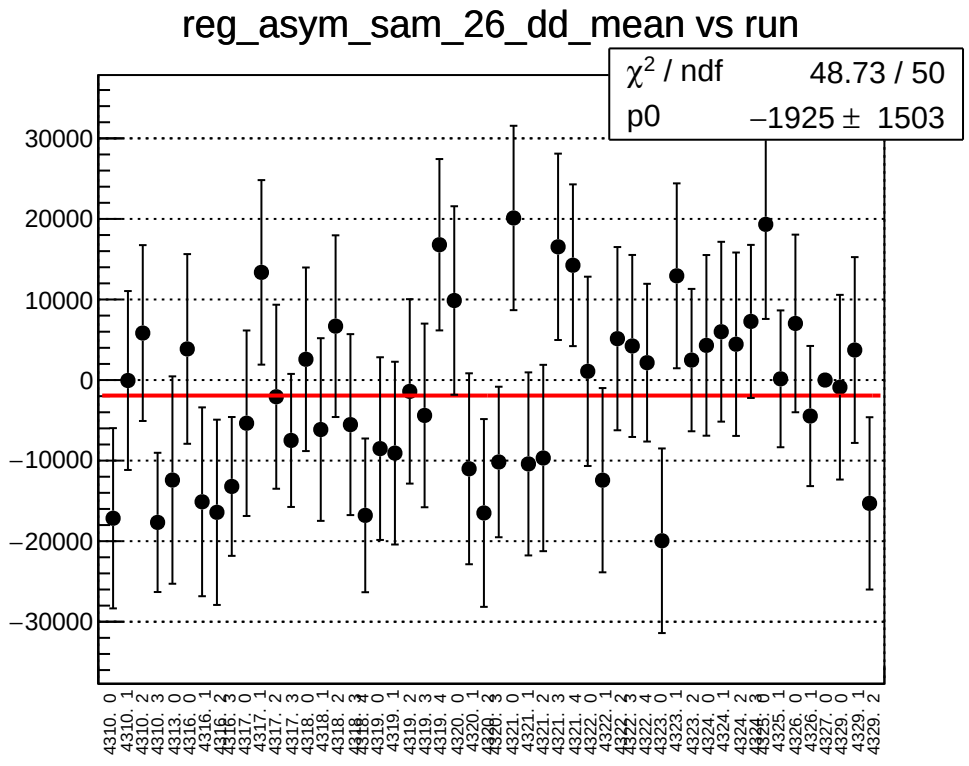

pull1D
Entries 52
Mean −0.02479
Std Dev 0.9849
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

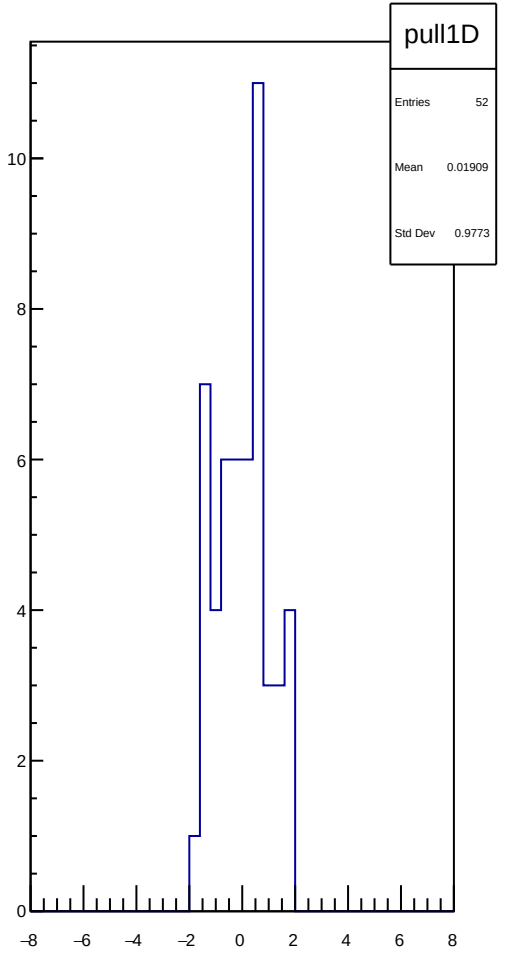

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3886 / 50
p0 233.4 ± 0.2291
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

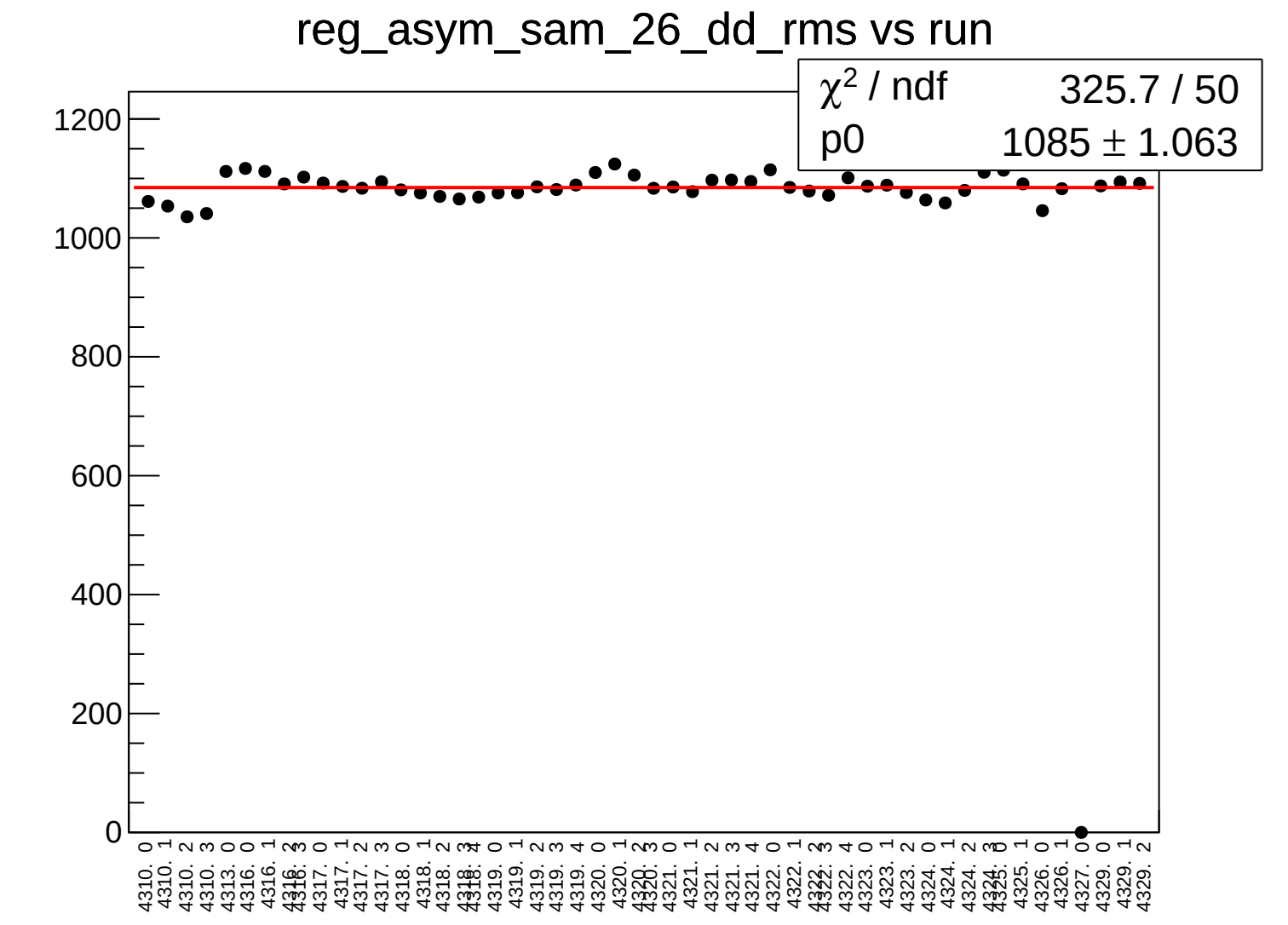

asym_sam_15_dd_correction_mean vs run
χ² / ndf 43.92 / 50
p0 433.5 ± 337.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

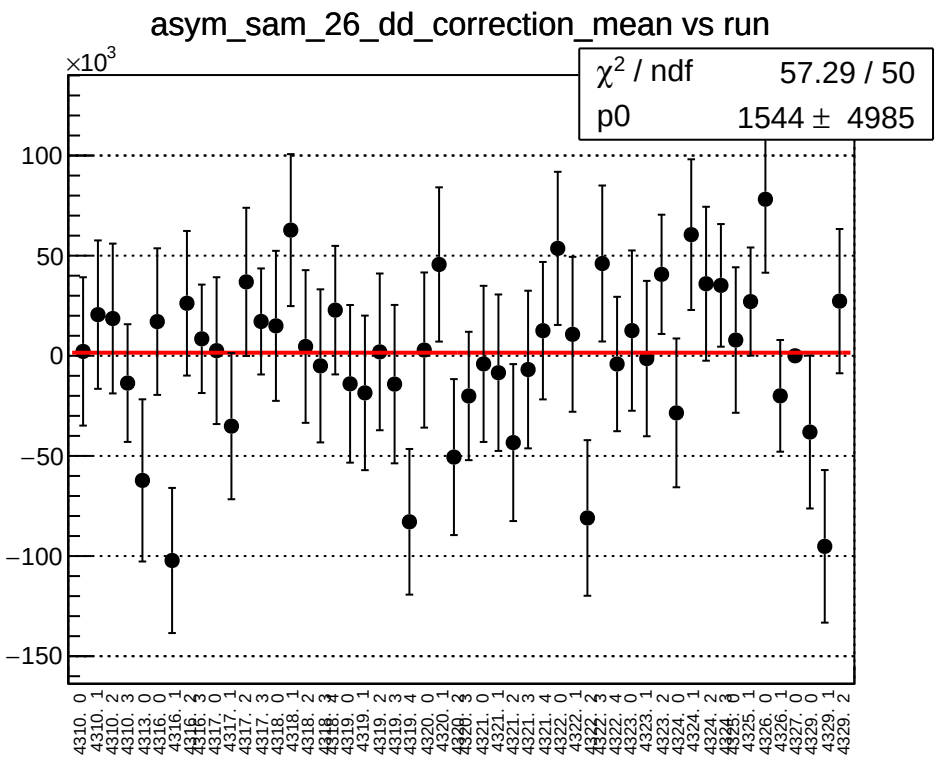

pull1D
Entries 52
Mean 0.02717
Std Dev 0.9276
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

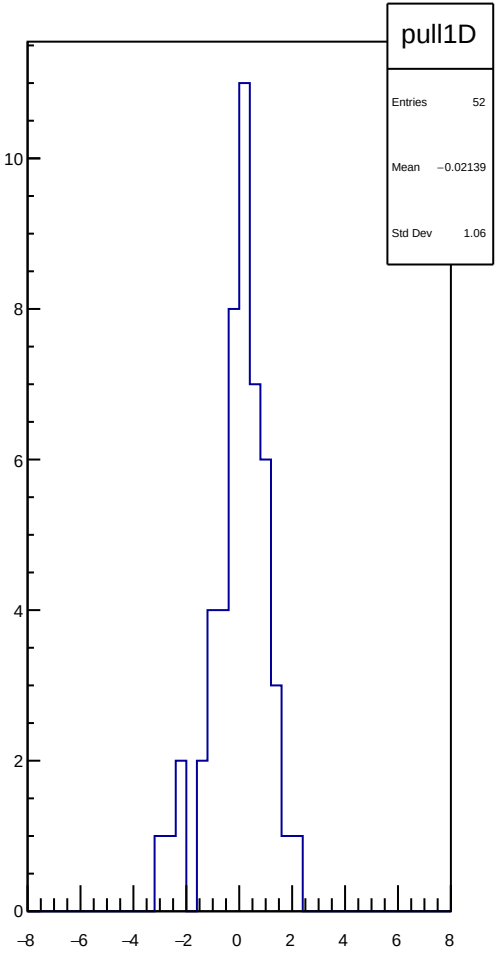

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3338 / 50
p0 243.1 ± 0.2386
300
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

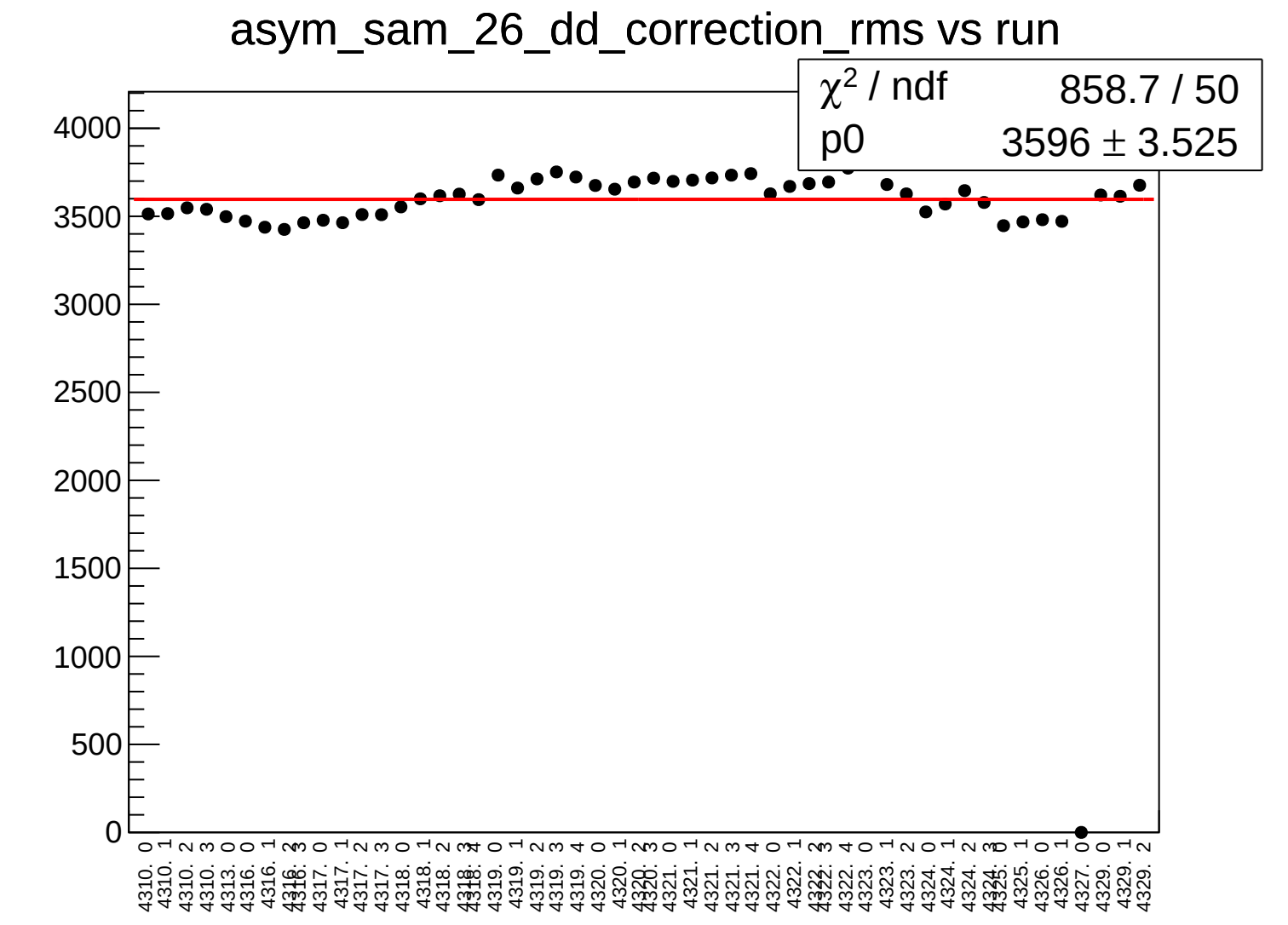

reg_asym_sam_26_dd_mean vs run
χ² / ndf 48.73 / 50
p0 −1925 ± 1503
30000
20000
10000
0
−10000
−20000
−30000
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 1
4327. 0
4329. 1
4329. 2

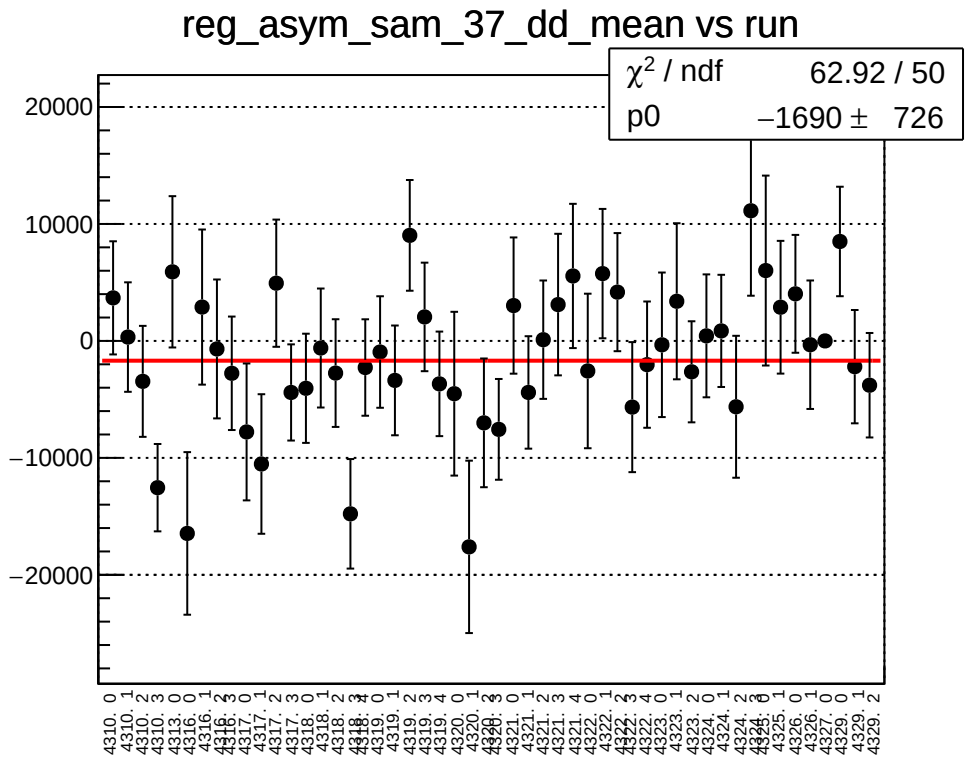

pull1D
Entries 52
Mean 0.01909
Std Dev 0.9773
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

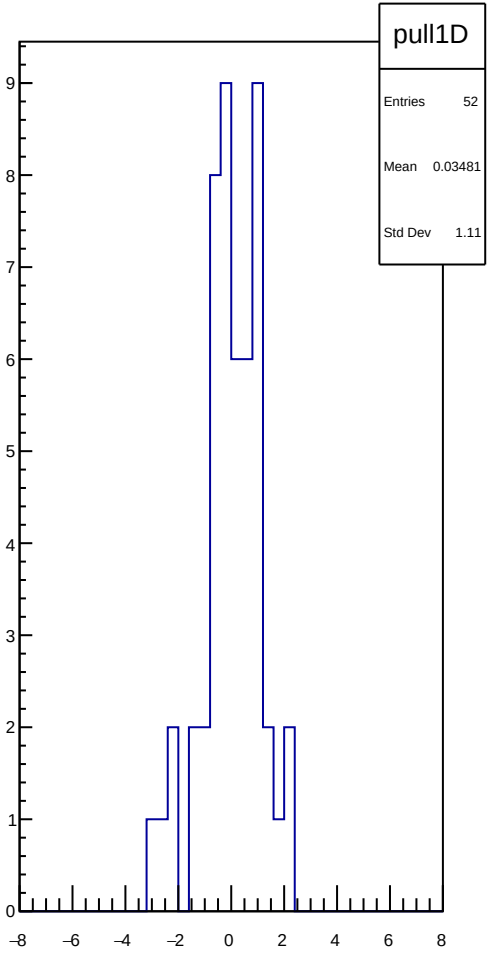

reg_asym_sam_26_dd_rms vs run
χ² / ndf 325.7 / 50
p0 1085 ± 1.063
1200
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

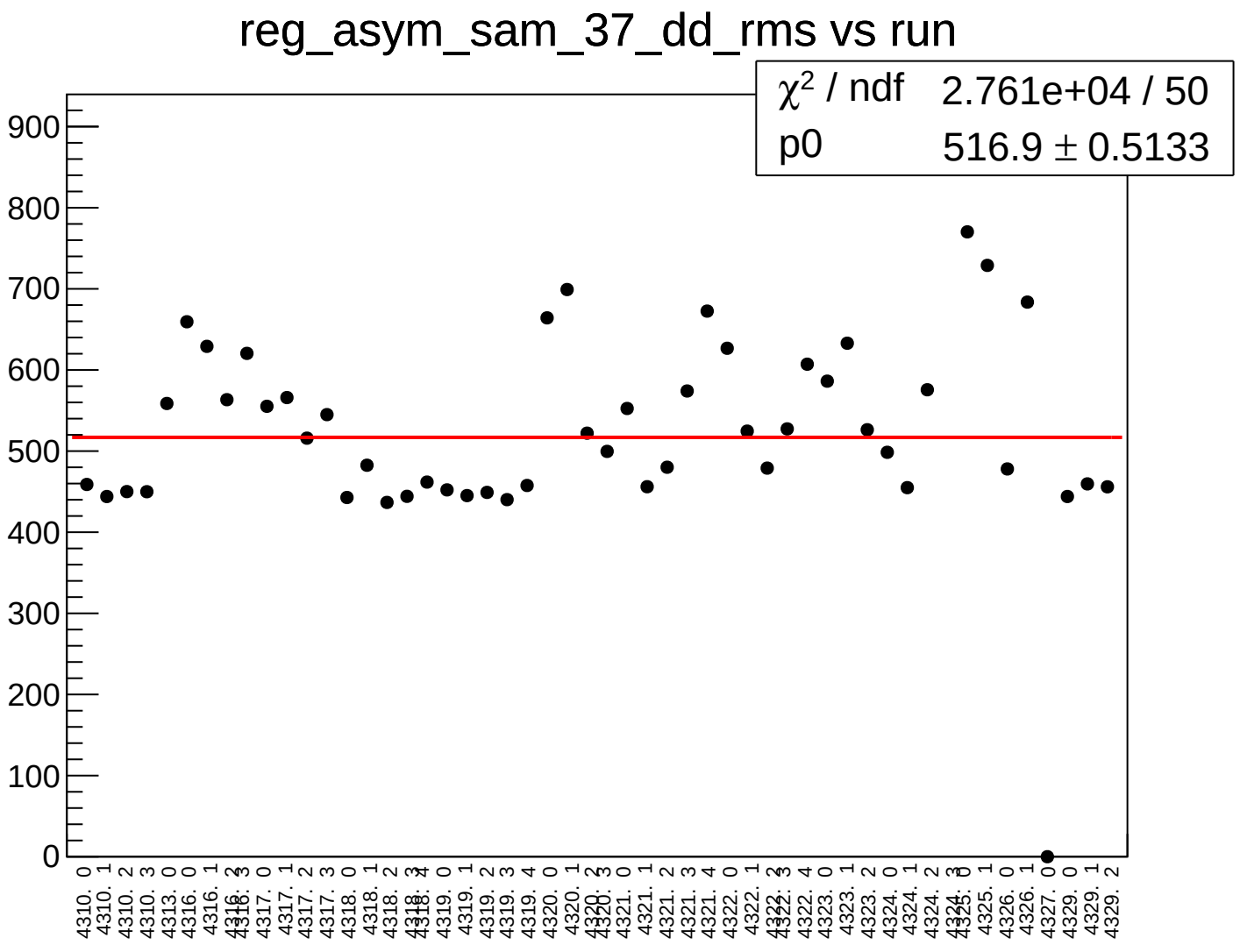

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 57.29 / 50
p0 1544 ± 4985
100
50
0
−50
−100
−150

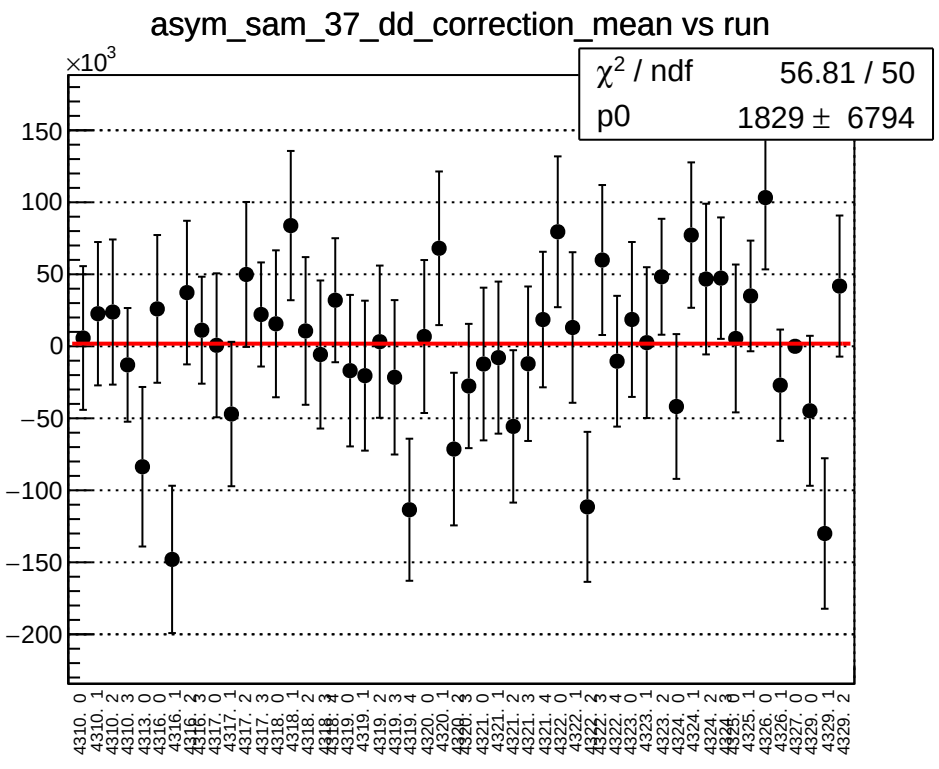

pull1D
Entries 52
Mean −0.02139
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

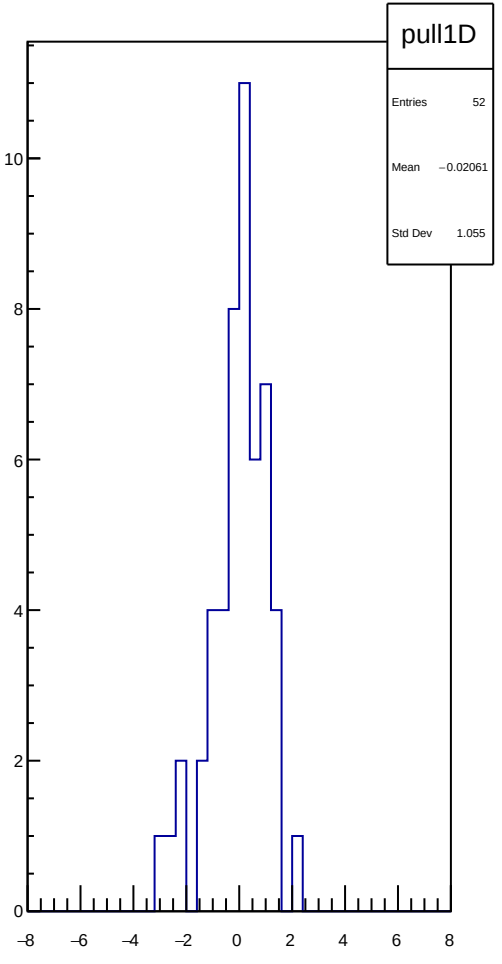

asym_sam_26_dd_correction_rms vs run
χ² / ndf 858.7 / 50
p0 3596 ± 3.525
4000
3500
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

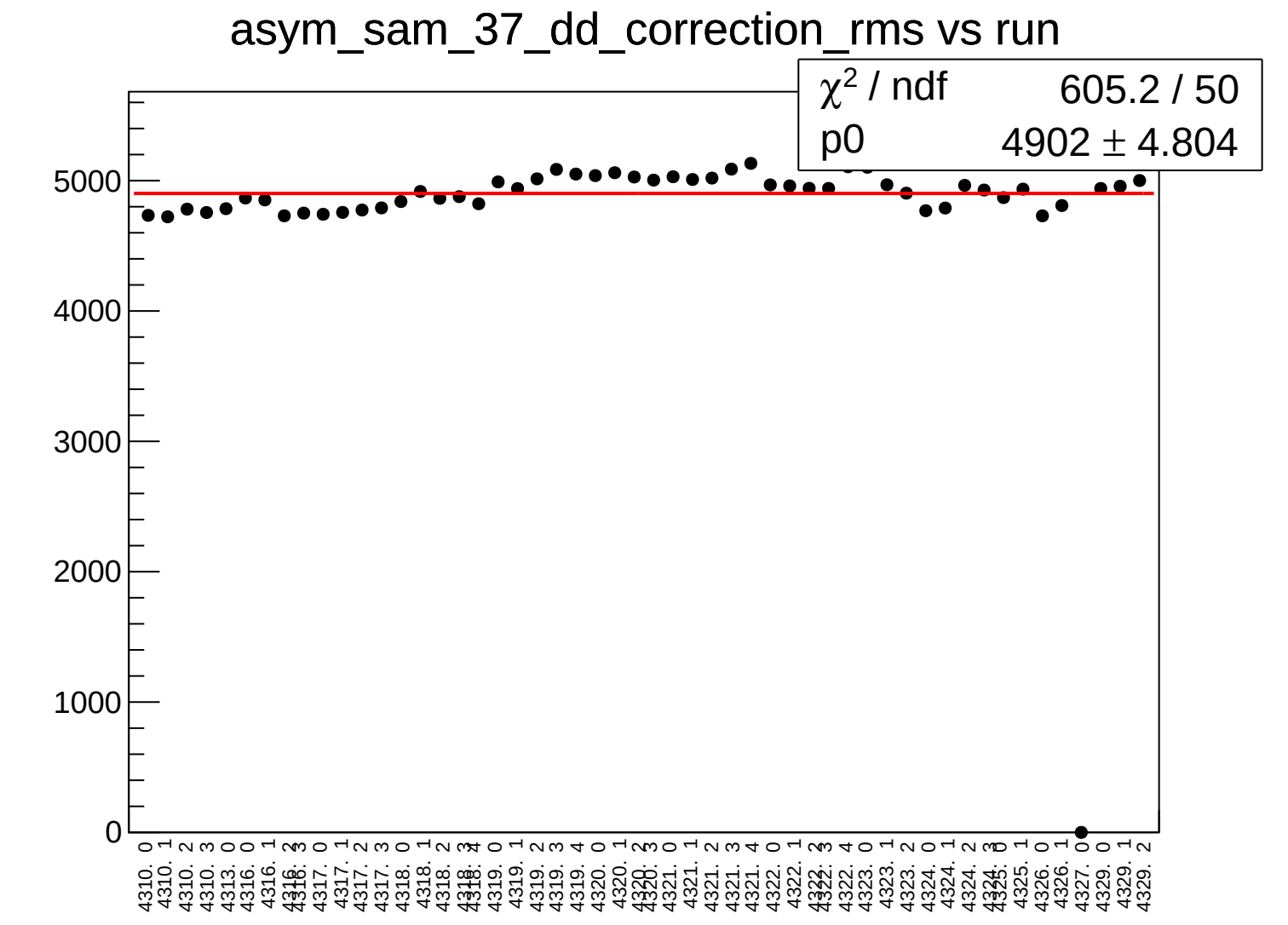

reg_asym_sam_37_dd_mean vs run
χ² / ndf 62.92 / 50
p0 −1690 ± 726
20000
10000
0
−10000
−20000

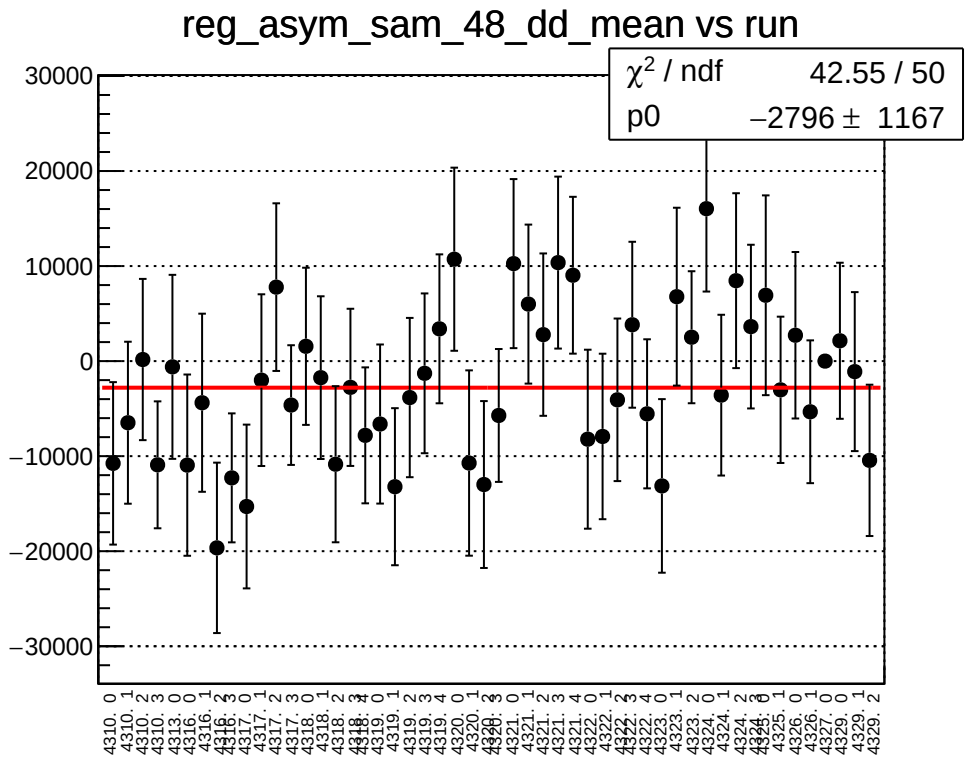

pull1D
Entries 52
Mean 0.03481
Std Dev 1.11
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

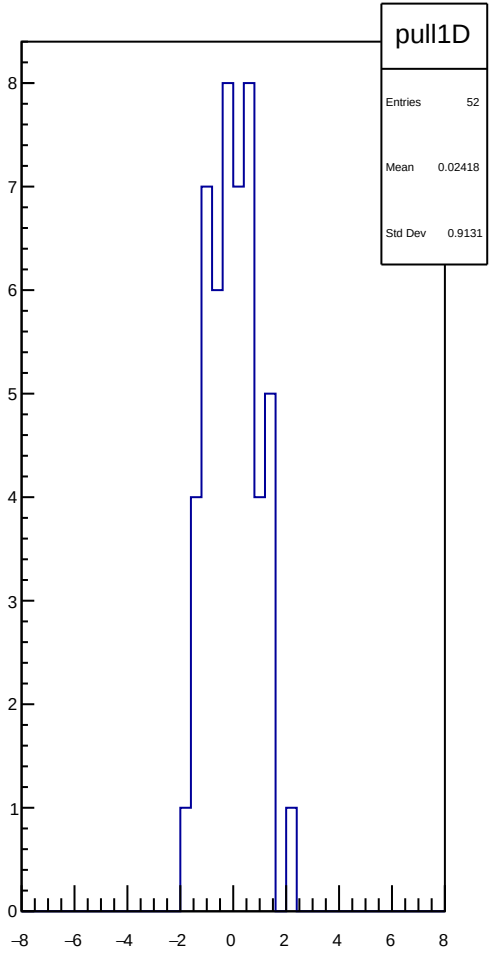

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.761e+04 / 50
p0 516.9 ± 0.5133
900
800
700
600
500
400
300
200
100
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

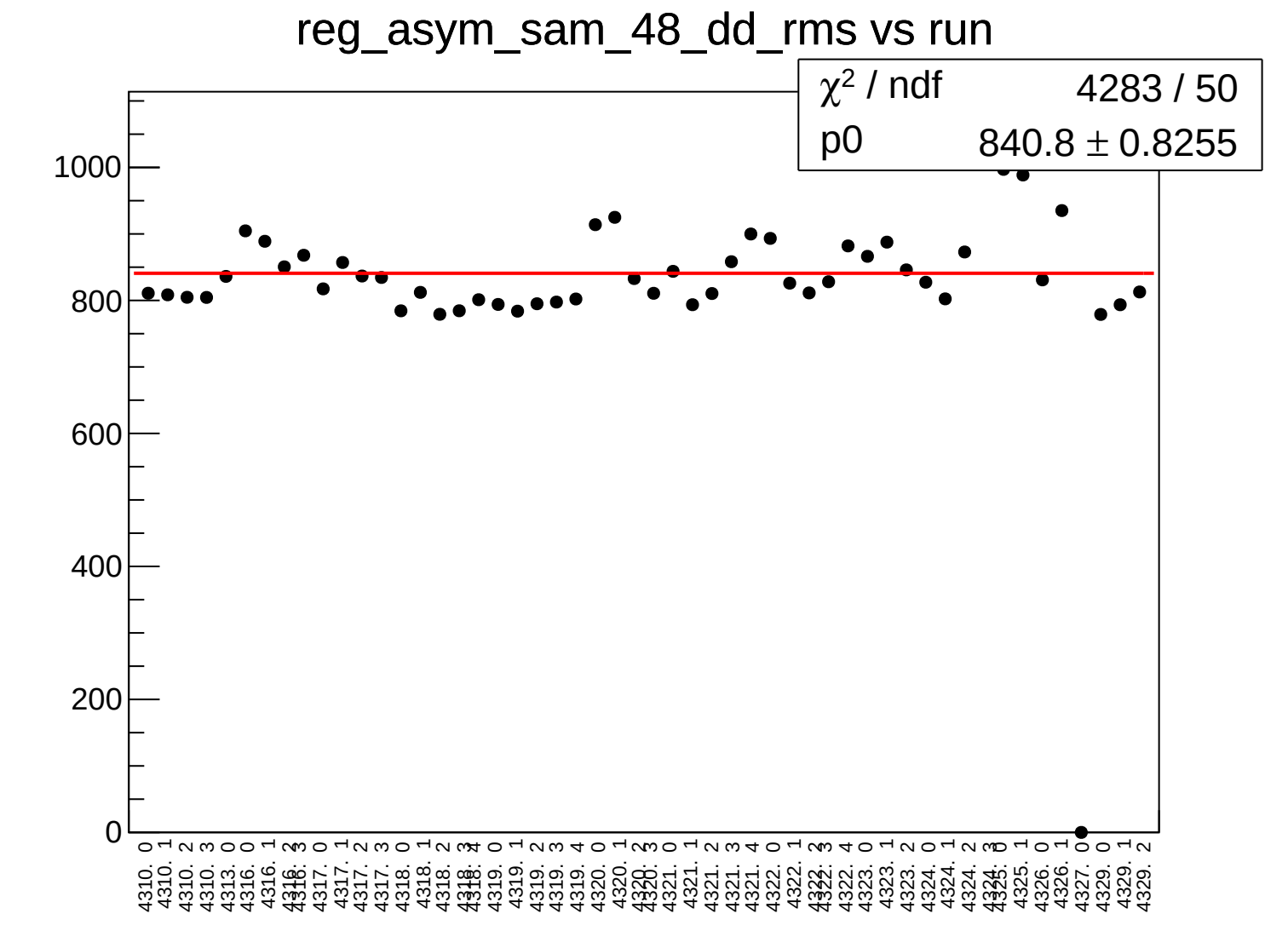

asym_sam_37_dd_correction_mean vs run
×10^3
χ^2 / ndf 56.81 / 50
p0 1829 ± 6794
150
100
50
0
−50
−100
−150
−200

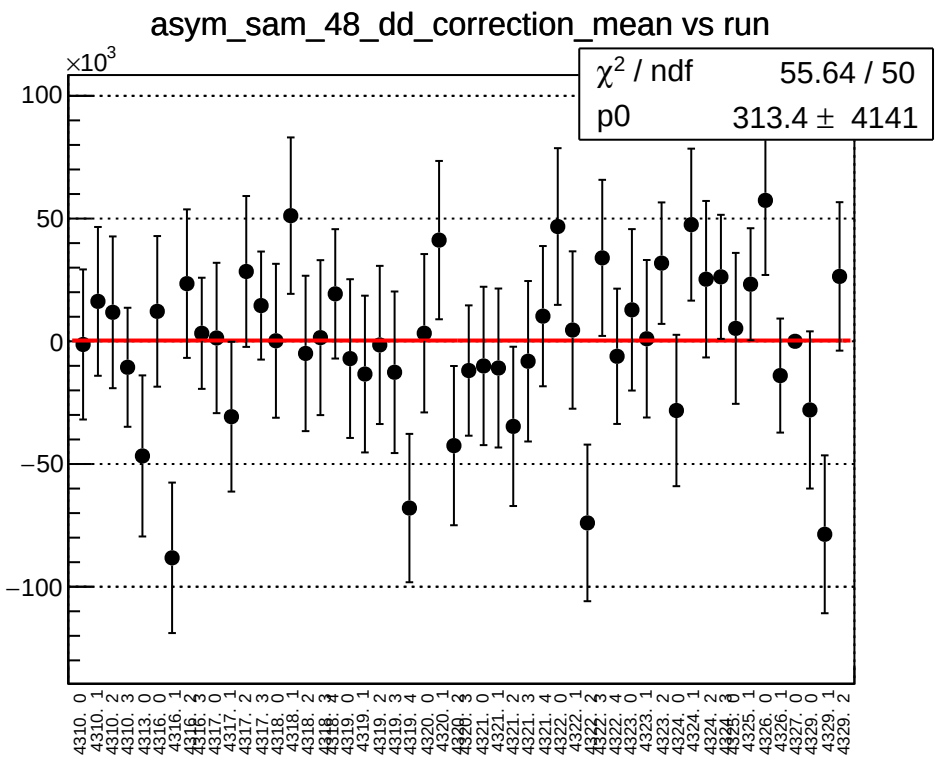

pull1D
Entries 52
Mean −0.02061
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

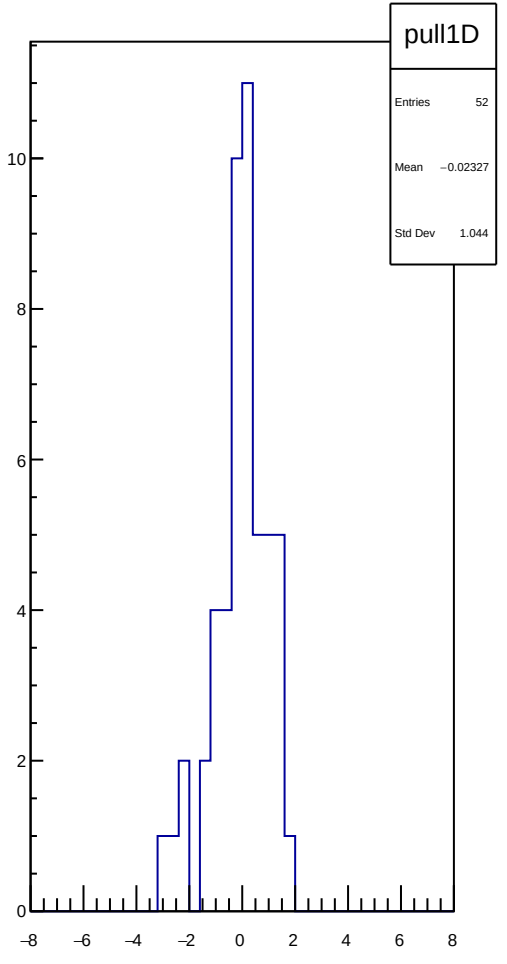

asym_sam_37_dd_correction_rms vs run
χ² / ndf 605.2 / 50
p0 4902 ± 4.804
5000
4000
3000
2000
1000
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

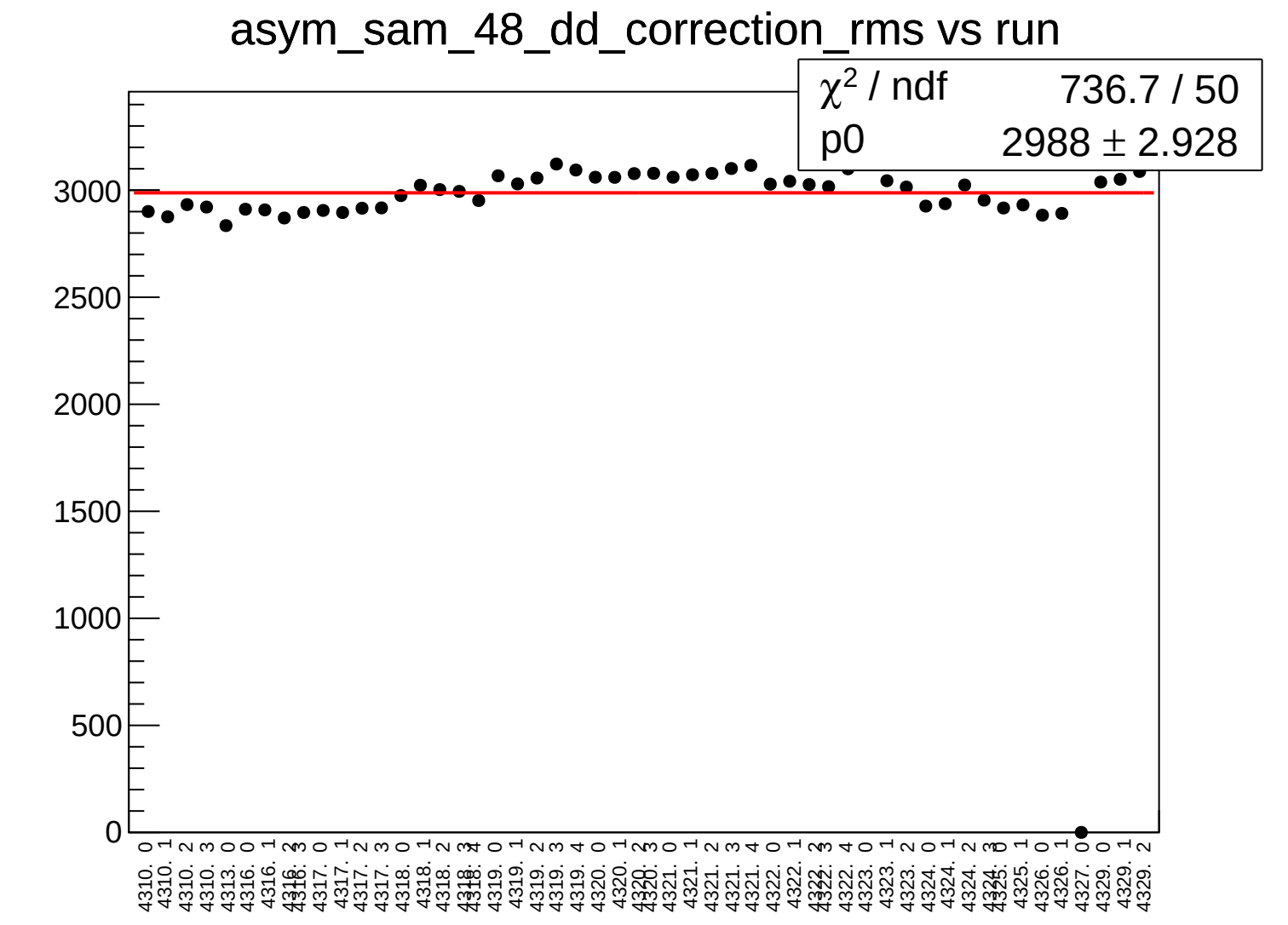

reg_asym_sam_48_dd_mean vs run
χ² / ndf 42.55 / 50
p0 −2796 ± 1167
30000
20000
10000
0
−10000
−20000
−30000

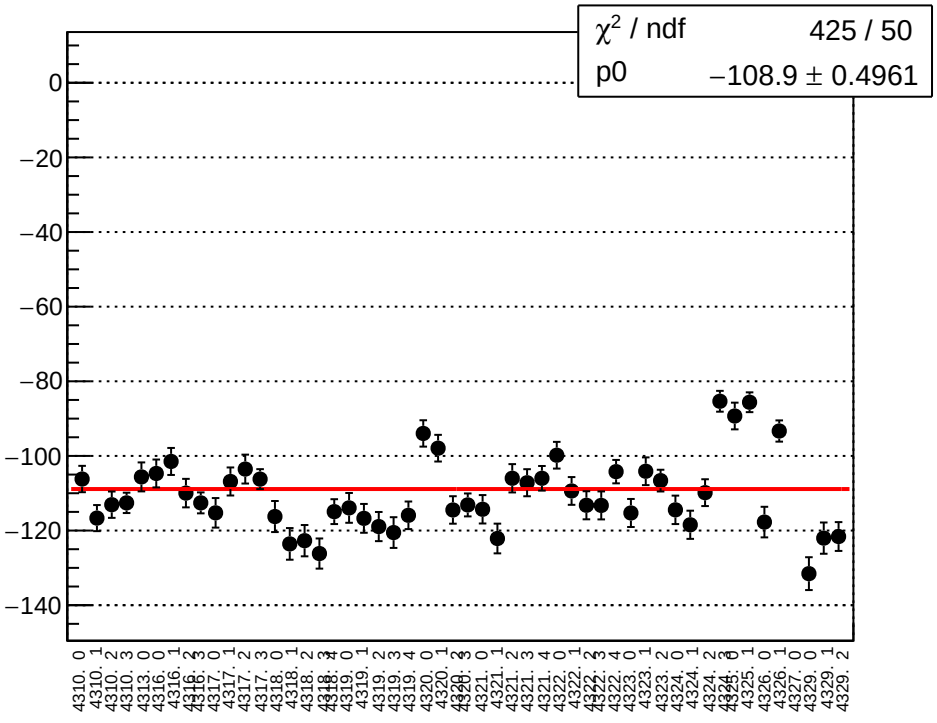

pull1D
Entries 52
Mean 0.02418
Std Dev 0.9131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

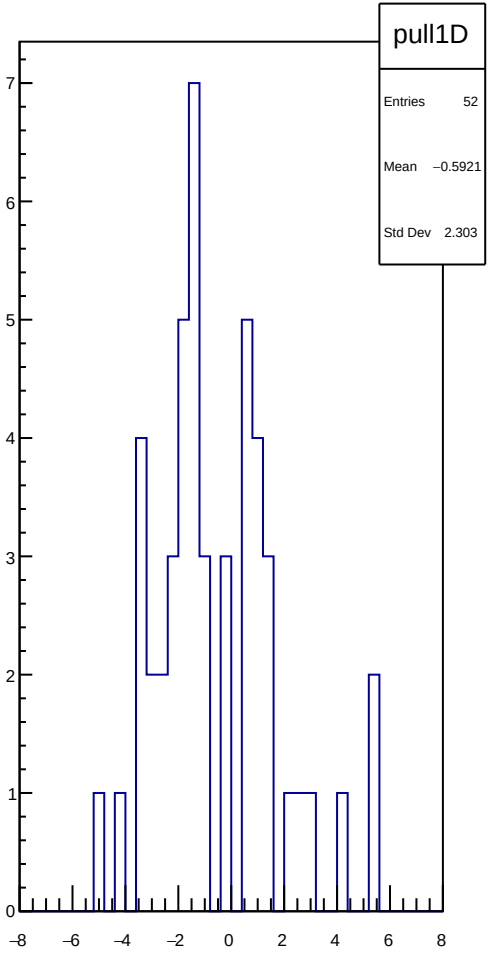

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4283 / 50
p0 840.8 ± 0.8255
1000
800
600
400
200
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

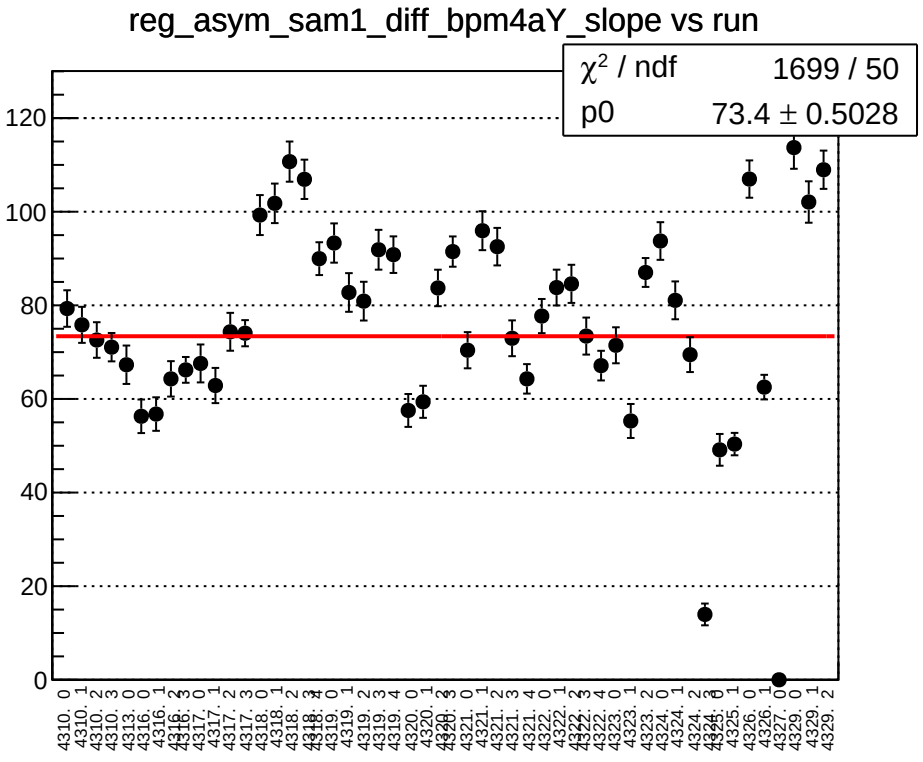

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 55.64 / 50
p0 313.4 ± 4141
100
50
0
−50
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 1
4327. 0
4329. 1
4329. 2

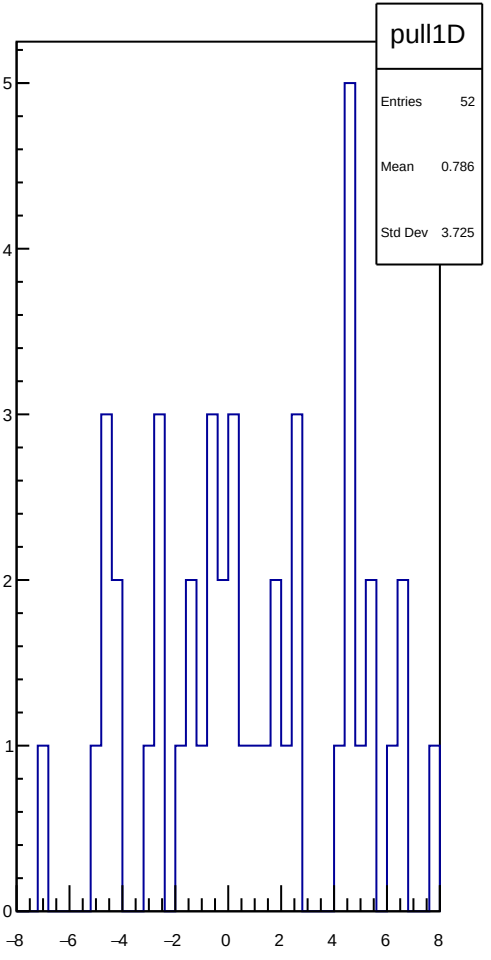

pull1D
Entries 52
Mean −0.02327
Std Dev 1.044
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

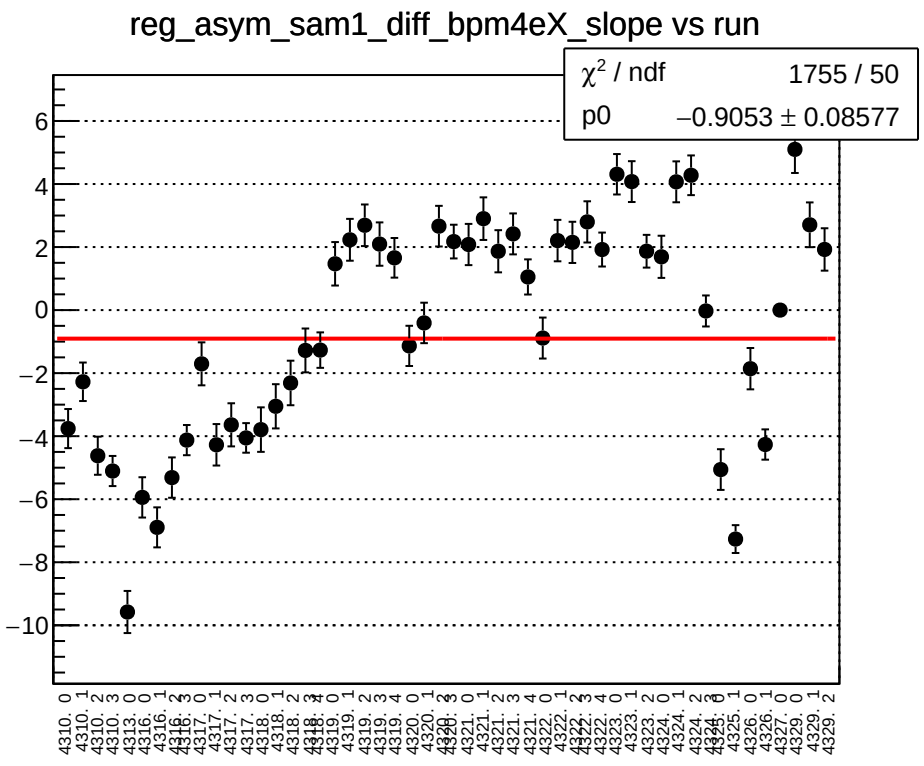

asym_sam_48_dd_correction_rms vs run
χ² / ndf 736.7 / 50
p0 2988 ± 2.928
3000
2500
2000
1500
1000
500
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

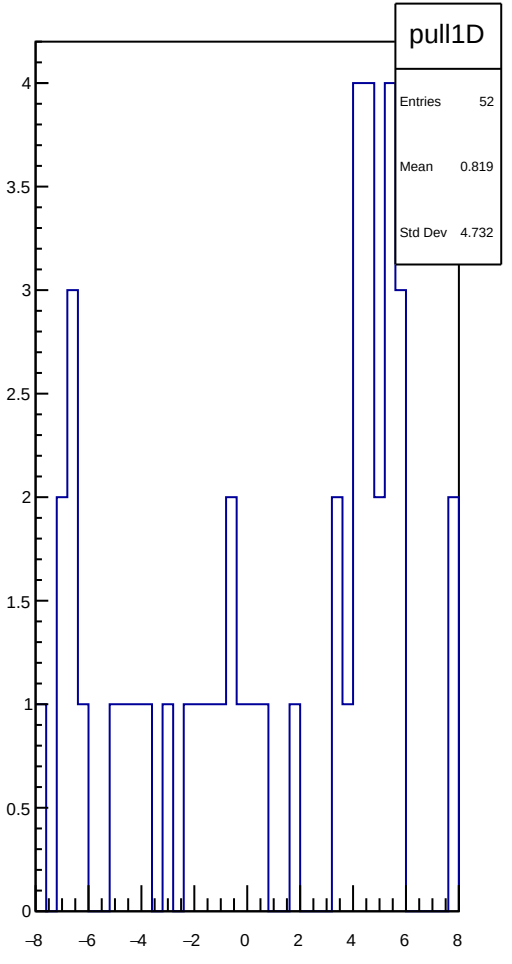

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 425 / 50
p0 −108.9 ± 0.4961
0
−20
−40
−60
−80
−100
−120
−140

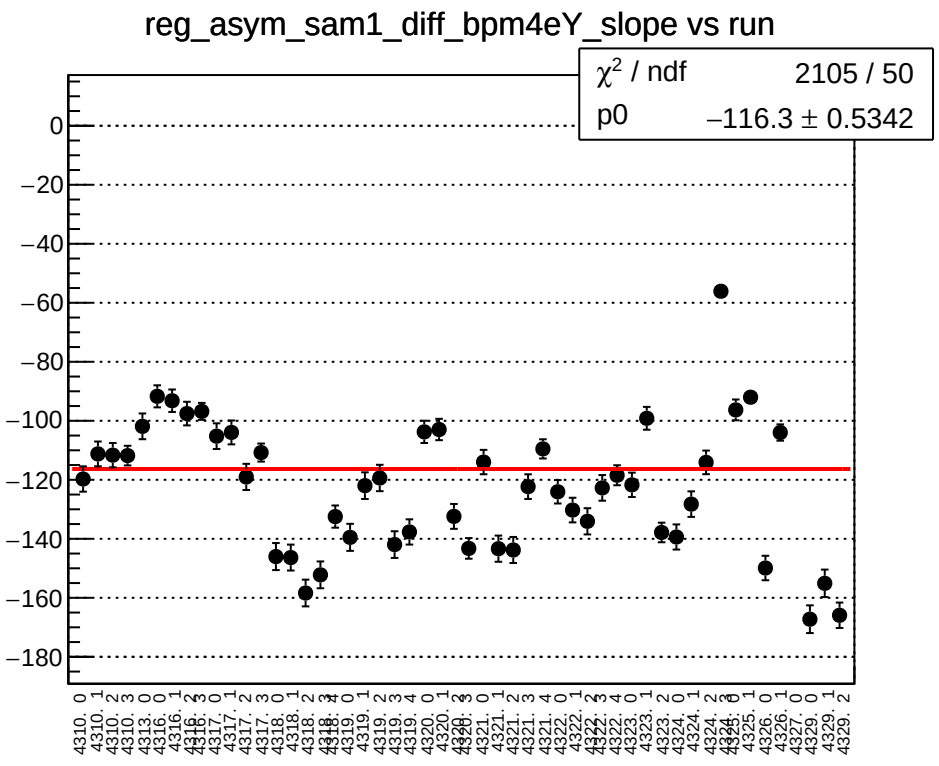

pull1D
Entries 52
Mean −0.5921
Std Dev 2.303
0
1
2
3
4
5
6
7
−8
−6
−4
−2
0
2
4
6
8

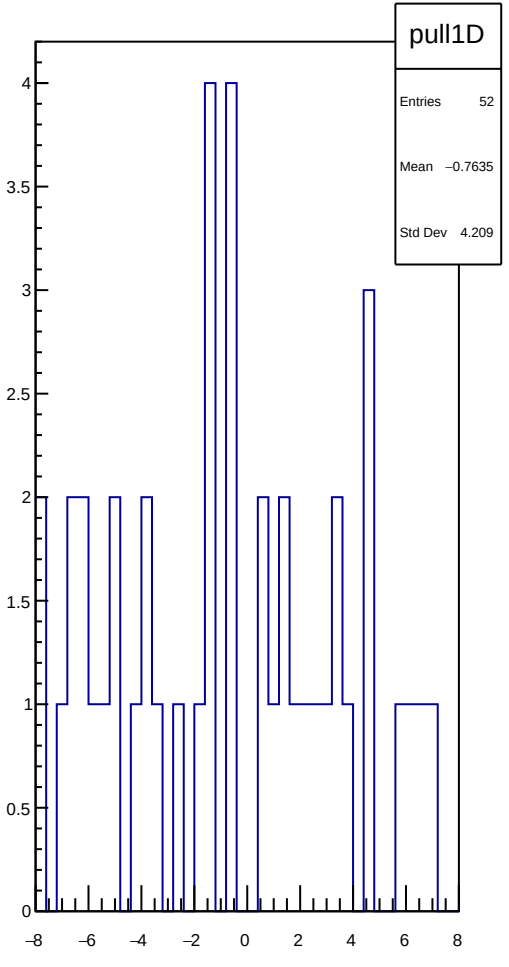

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 1699 / 50
p0 73.4 ± 0.5028
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

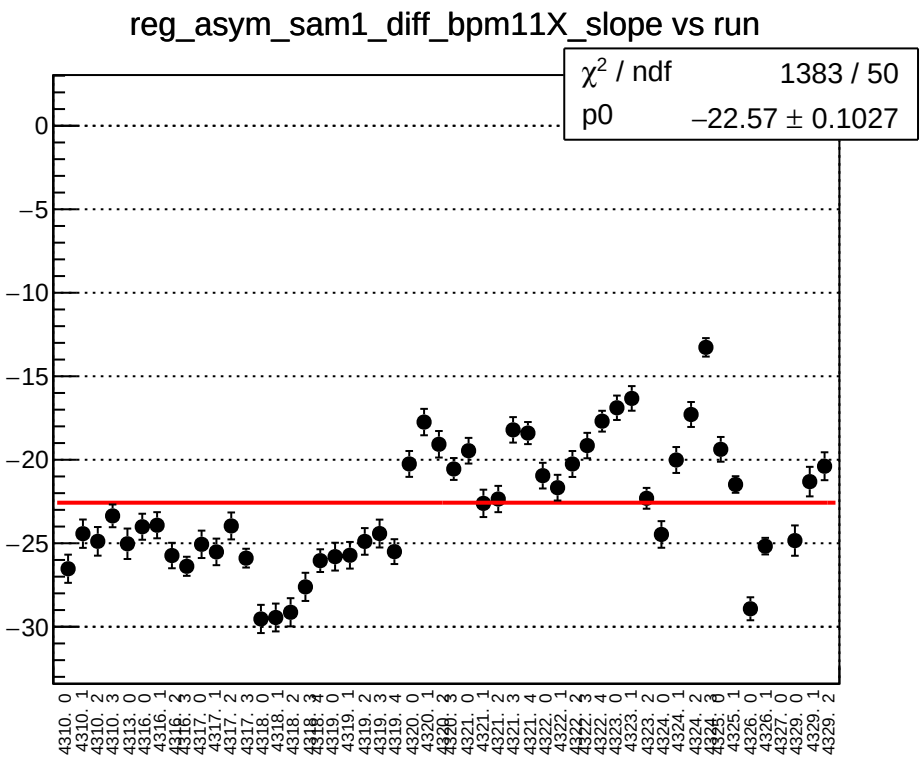

pull1D
Entries 52
Mean 0.786
Std Dev 3.725
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

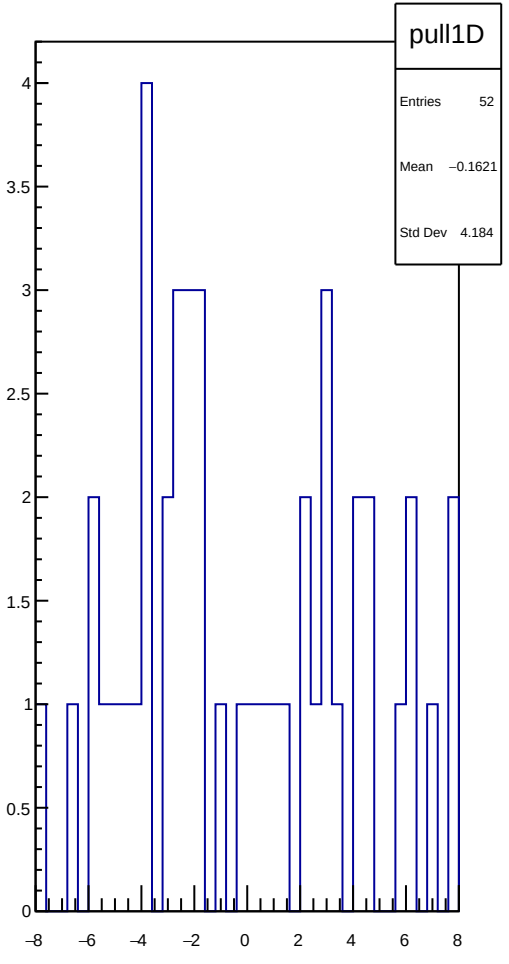

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1755 / 50
p0 −0.9053 ± 0.08577
6
4
2
0
−2
−4
−6
−8
−10
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

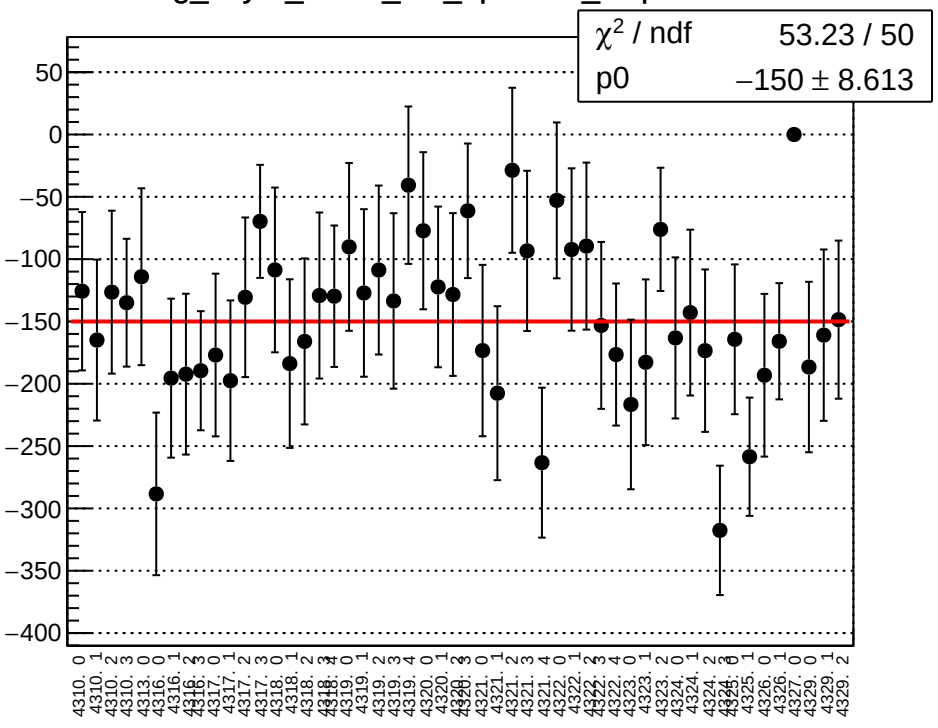

pull1D
Entries 52
Mean 0.819
Std Dev 4.732
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

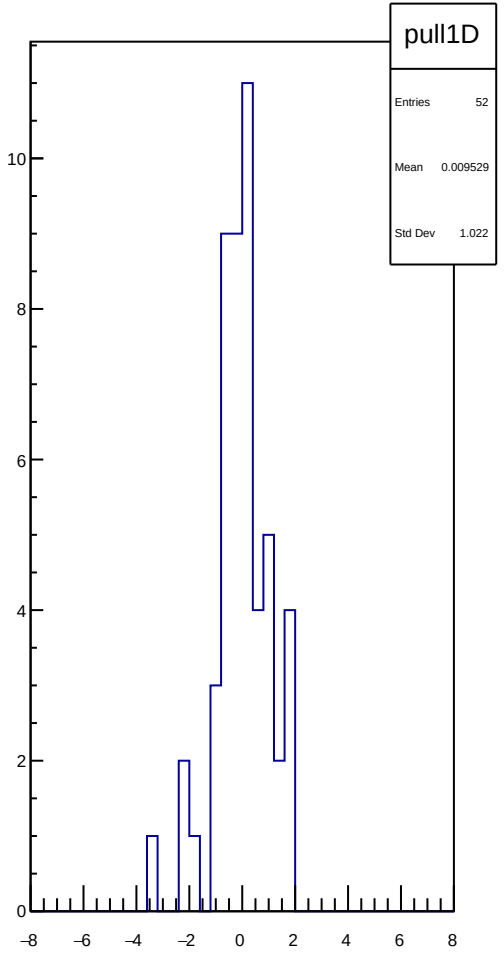

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 2105 / 50
p0 −116.3 ± 0.5342
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

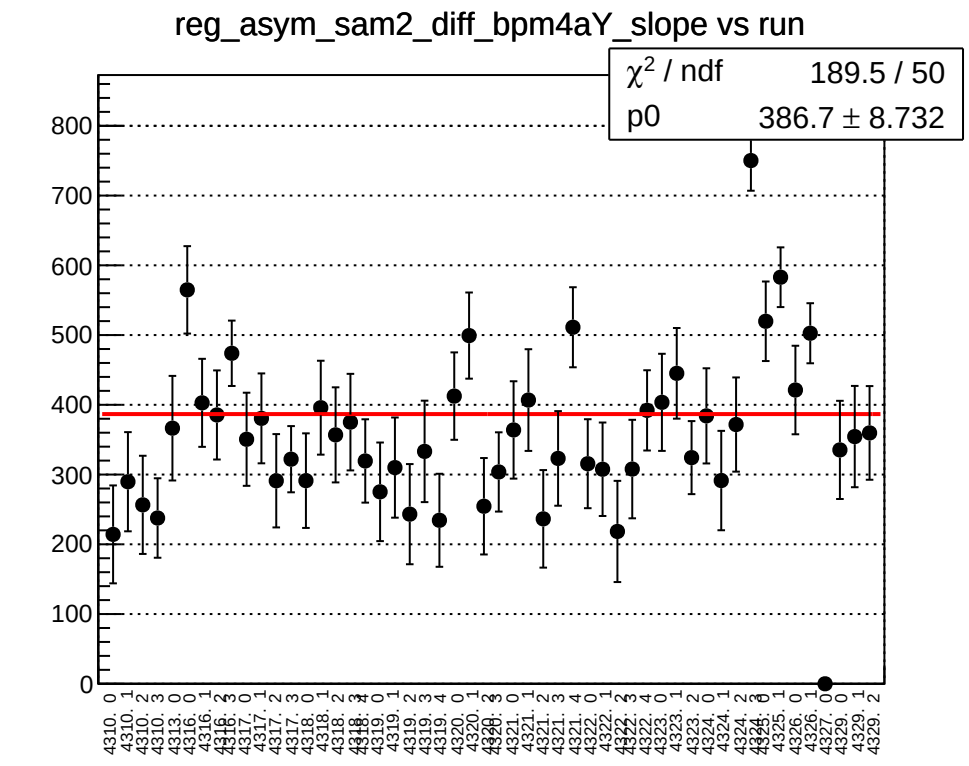

pull1D
Entries 52
Mean −0.7635
Std Dev 4.209
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

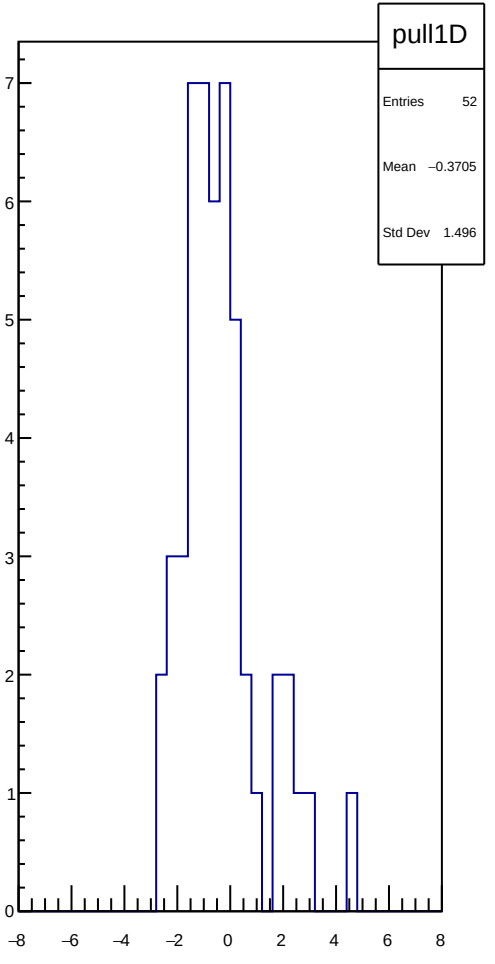

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 1383 / 50
p0 −22.57 ± 0.1027
0
−5
−10
−15
−20
−25
−30

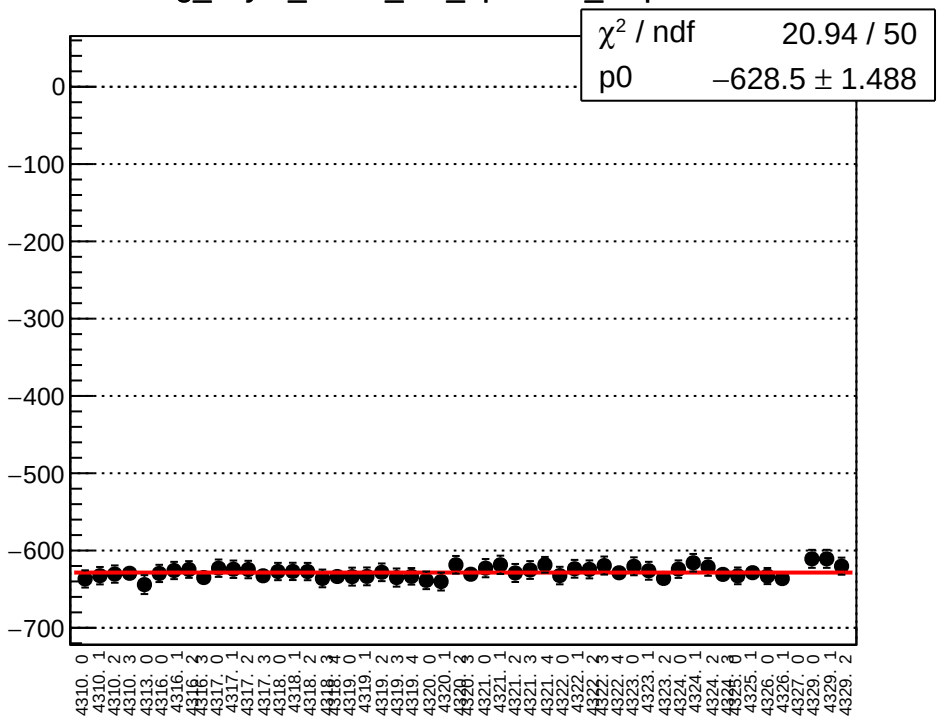

pull1D
Entries 52
Mean −0.1621
Std Dev 4.184
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

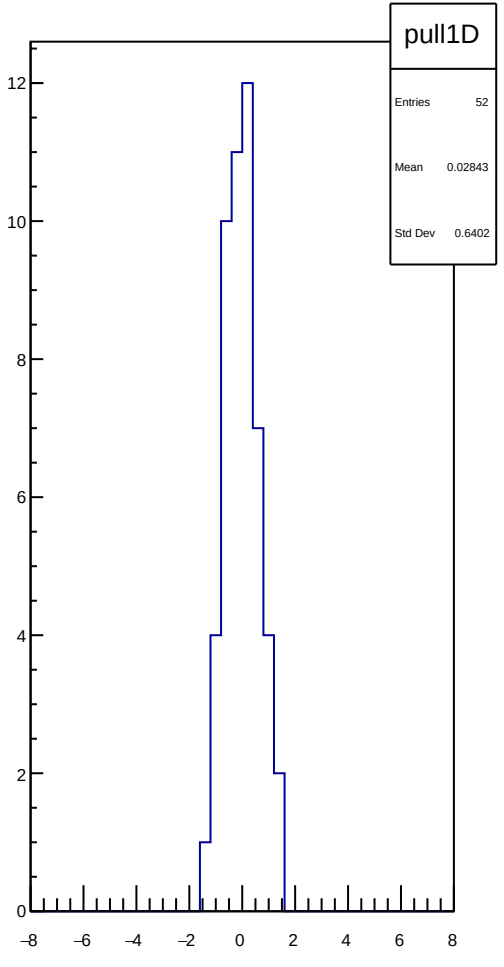

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 53.23 / 50
p0 −150 ± 8.613
50
0
−50
−100
−150
−200
−250
−300
−350
−400

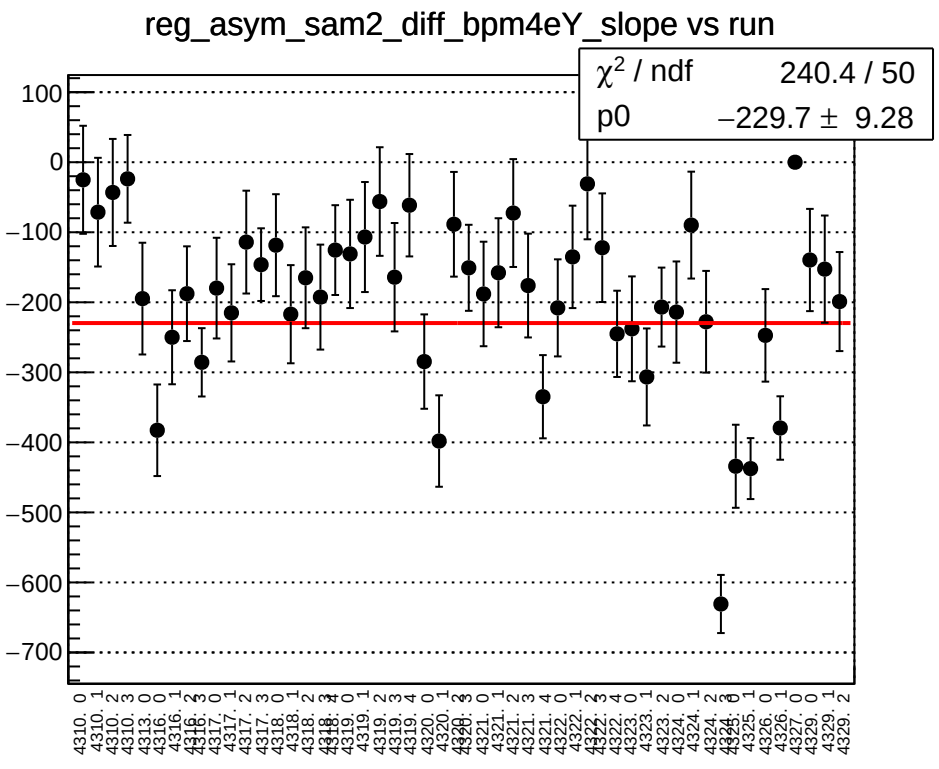

pull1D
Entries 52
Mean 0.009529
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

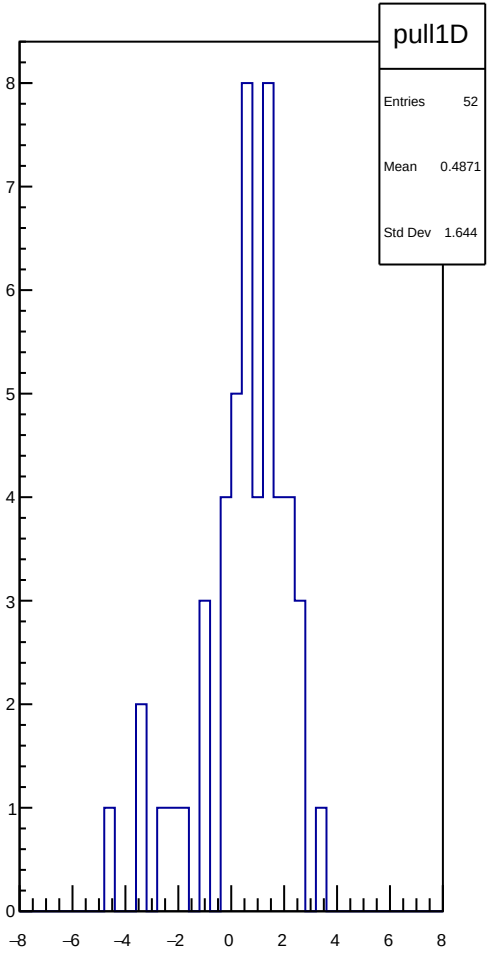

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 189.5 / 50
p0 386.7 ± 8.732
800
700
600
500
400
300
200
100
0

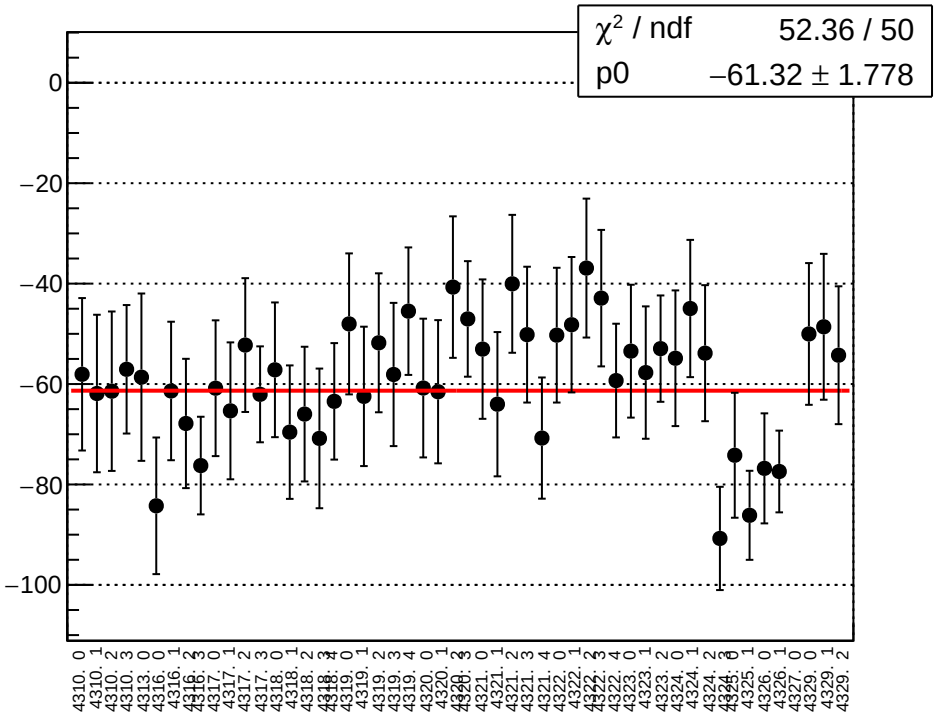

pull1D
Entries 52
Mean −0.3705
Std Dev 1.496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

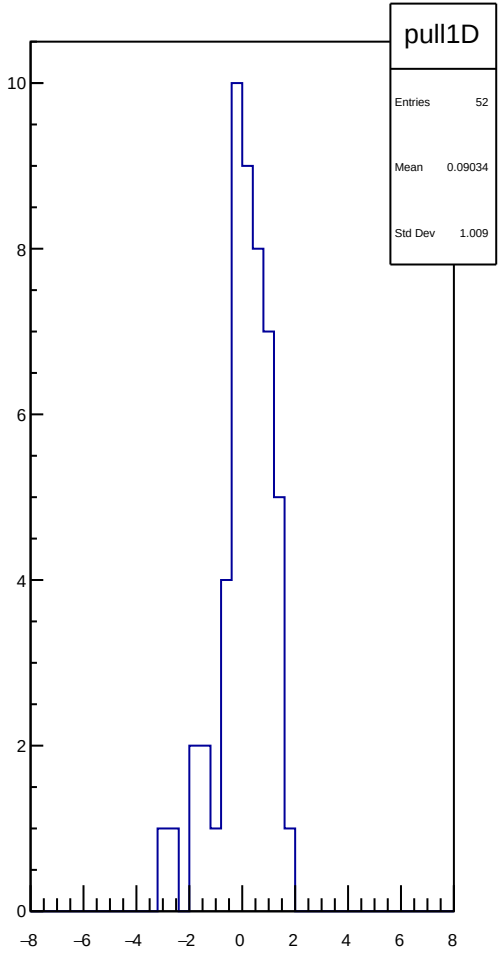

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 20.94 / 50
p0 −628.5 ± 1.488
0
−100
−200
−300
−400
−500
−600
−700

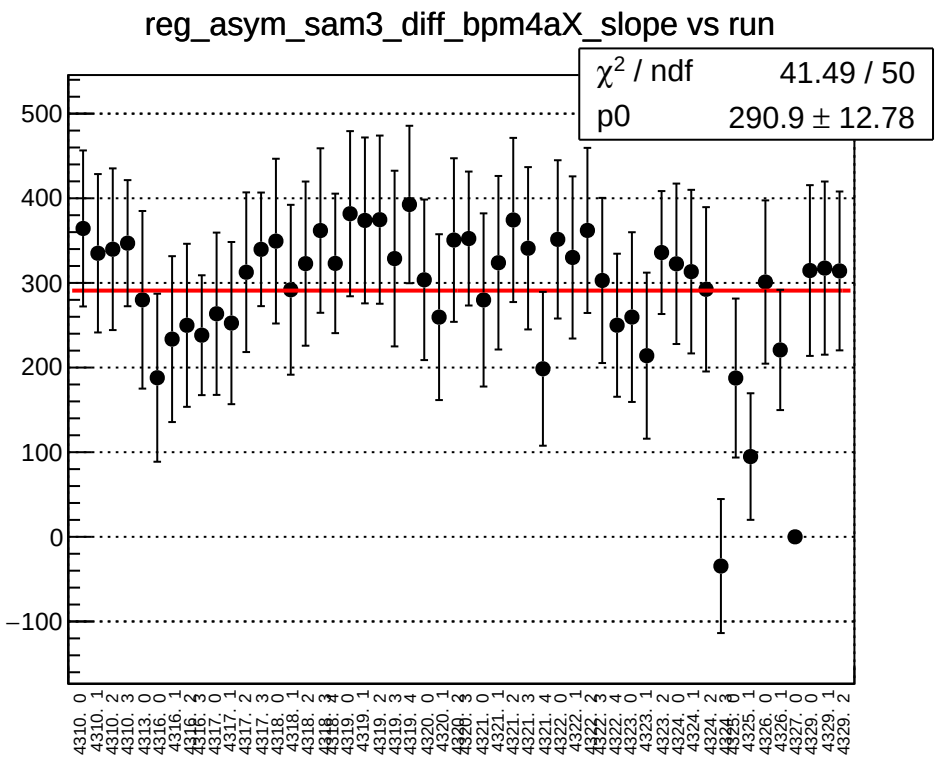

pull1D
Entries 52
Mean 0.02843
Std Dev 0.6402
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

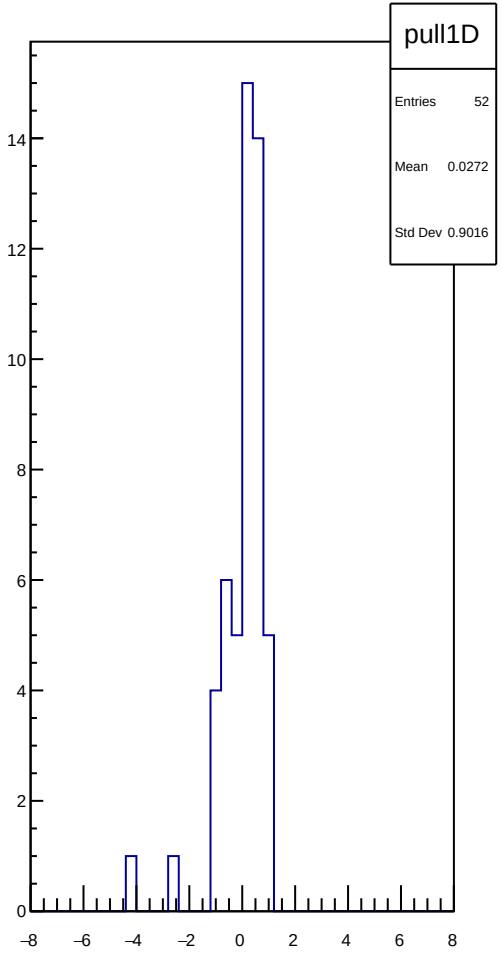

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 240.4 / 50
p0 −229.7 ± 9.28
100
0
−100
−200
−300
−400
−500
−600
−700

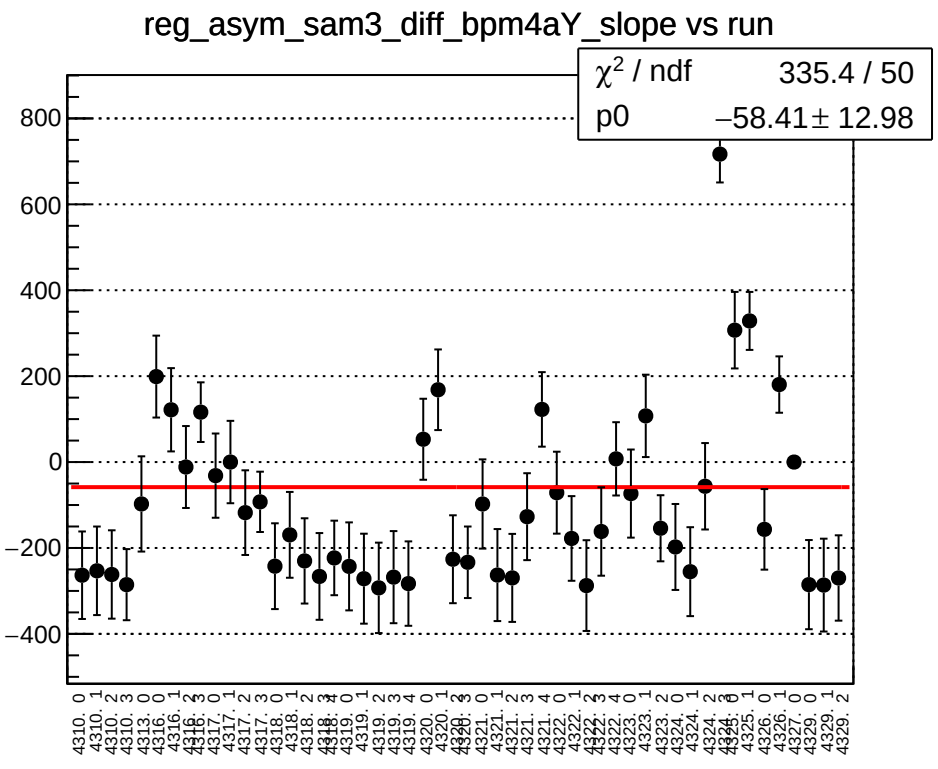

pull1D
Entries 52
Mean 0.4871
Std Dev 1.644
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

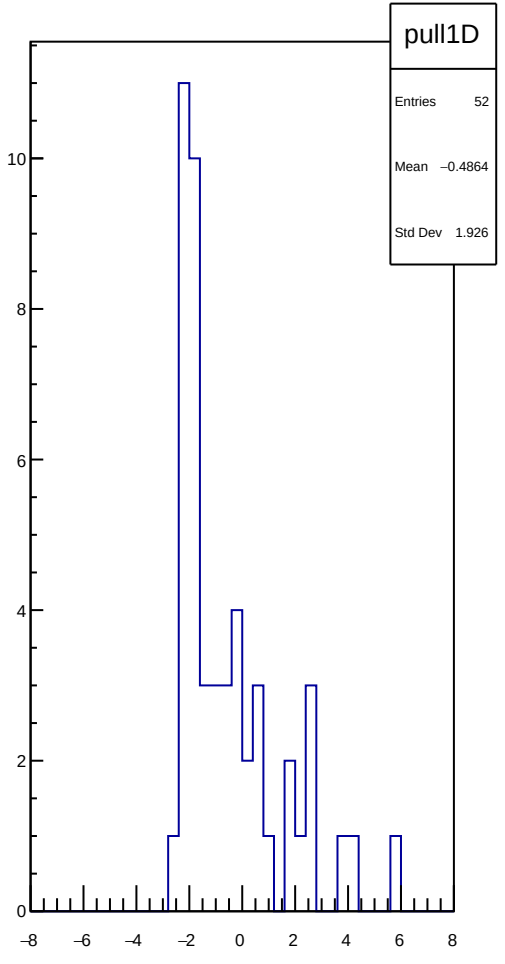

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 52.36 / 50
p0 −61.32 ± 1.778
0
−20
−40
−60
−80
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

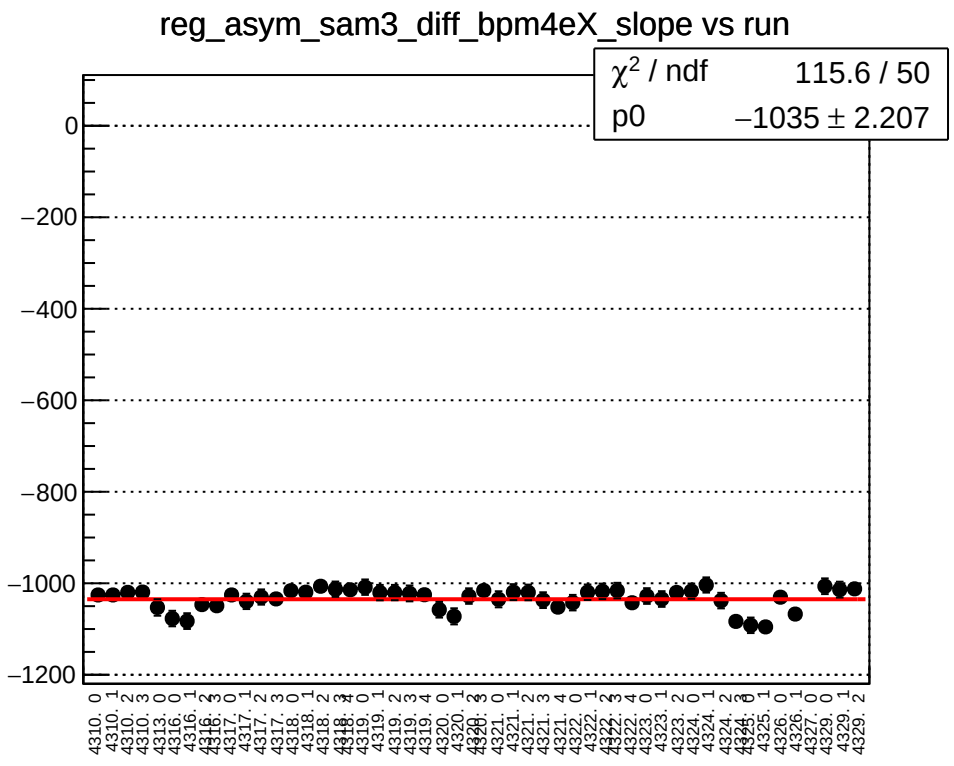

pull1D
Entries 52
Mean 0.09034
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

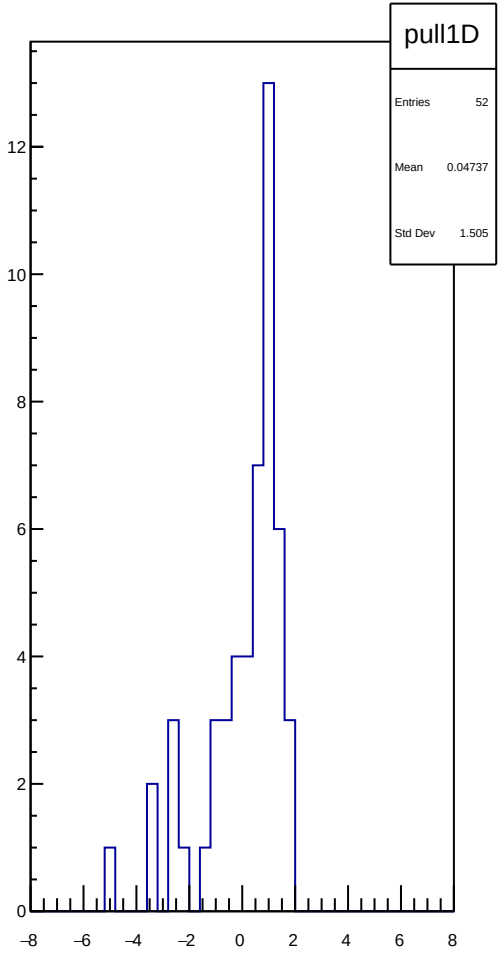

reg_asym_sam3_diff_bpm4aX_slope vs run
χ^2 / ndf 41.49 / 50
p0 290.9 ± 12.78
500
400
300
200
100
0
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

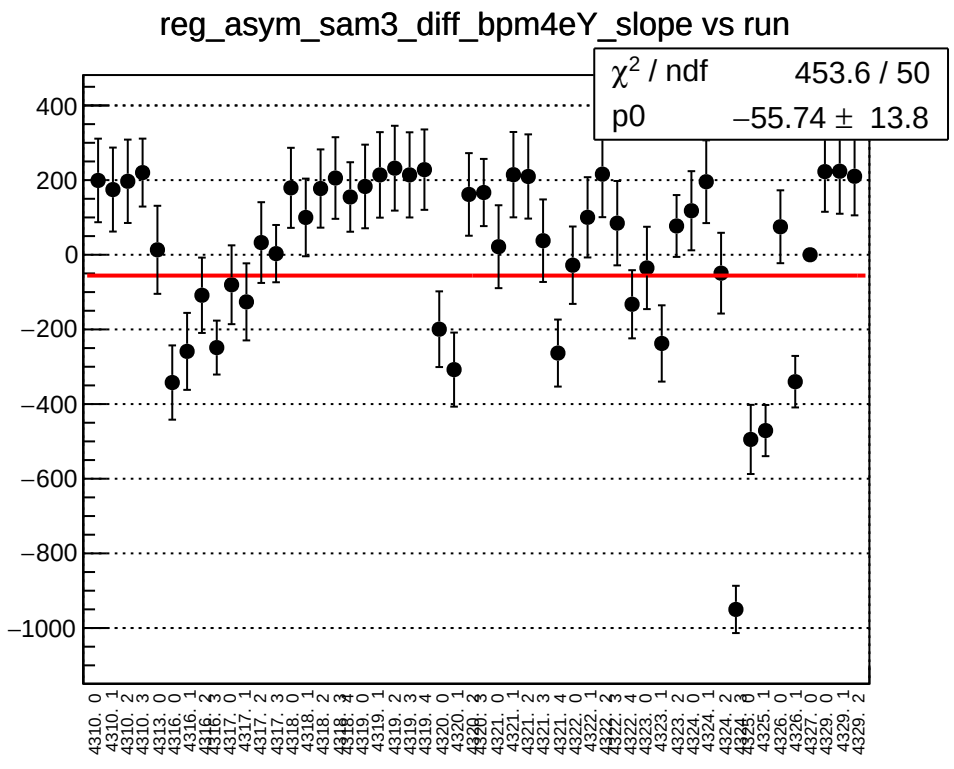

pull1D
Entries 52
Mean 0.0272
Std Dev 0.9016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

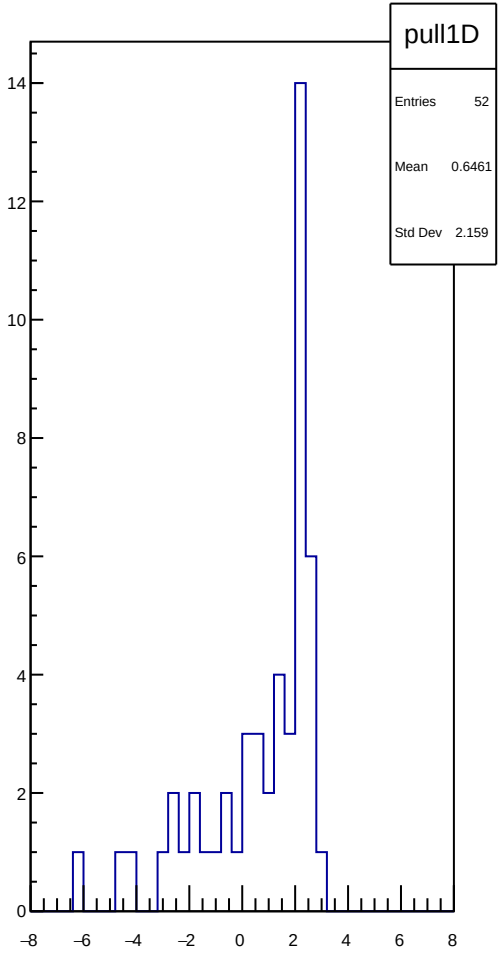

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 335.4 / 50
p0 −58.41 ± 12.98
800
600
400
200
0
−200
−400

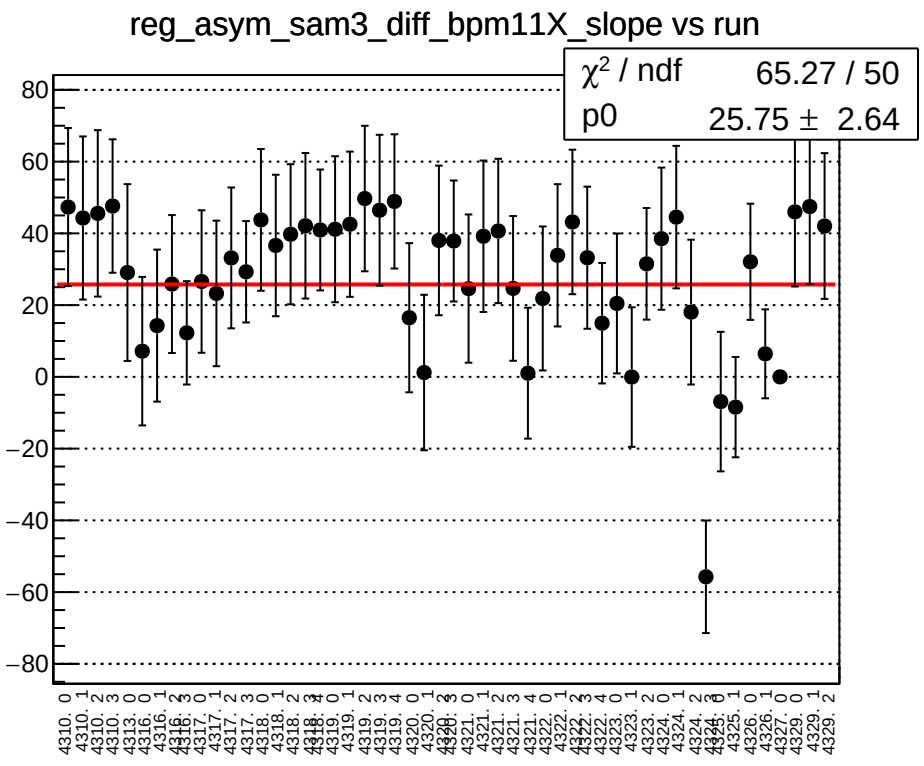

pull1D
Entries 52
Mean −0.4864
Std Dev 1.926
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

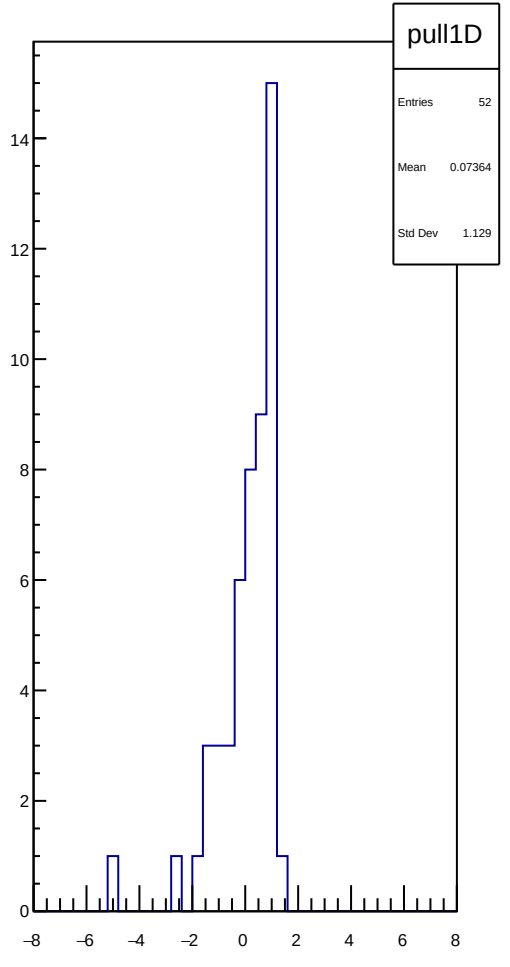

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 115.6 / 50
p0 −1035 ± 2.207
0
−200
−400
−600
−800
−1000
−1200

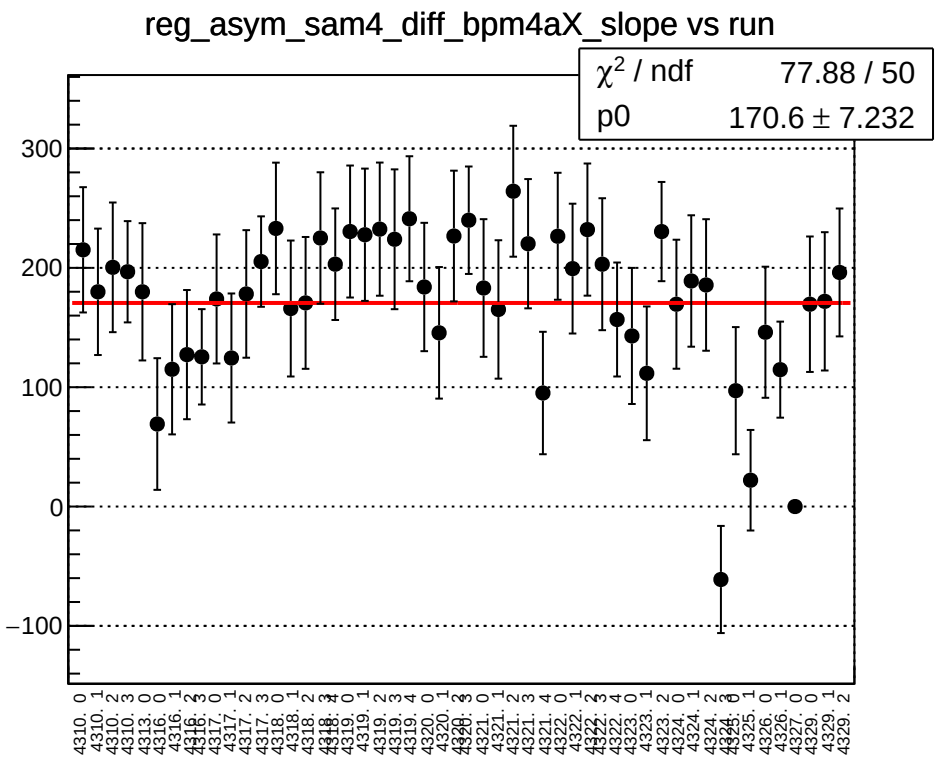

pull1D
Entries 52
Mean 0.04737
Std Dev 1.505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

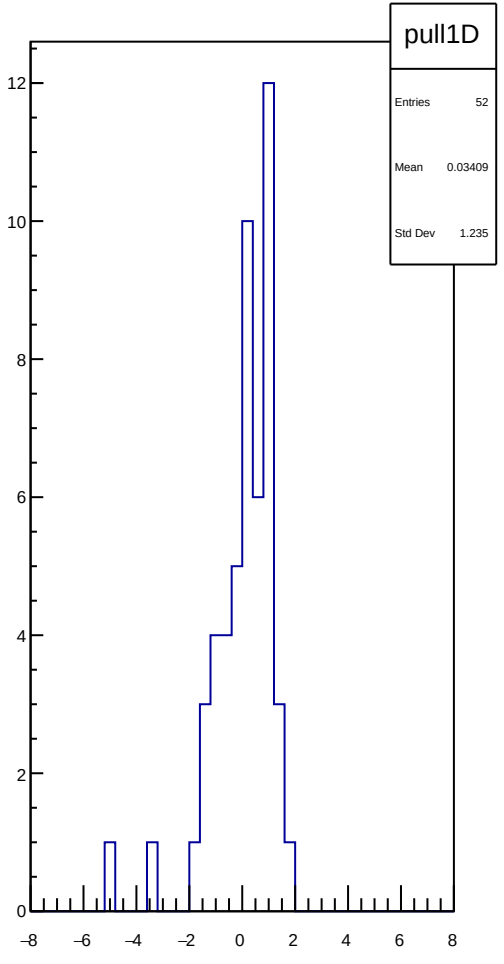

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 453.6 / 50
p0 −55.74 ± 13.8
400
200
0
−200
−400
−600
−800
−1000

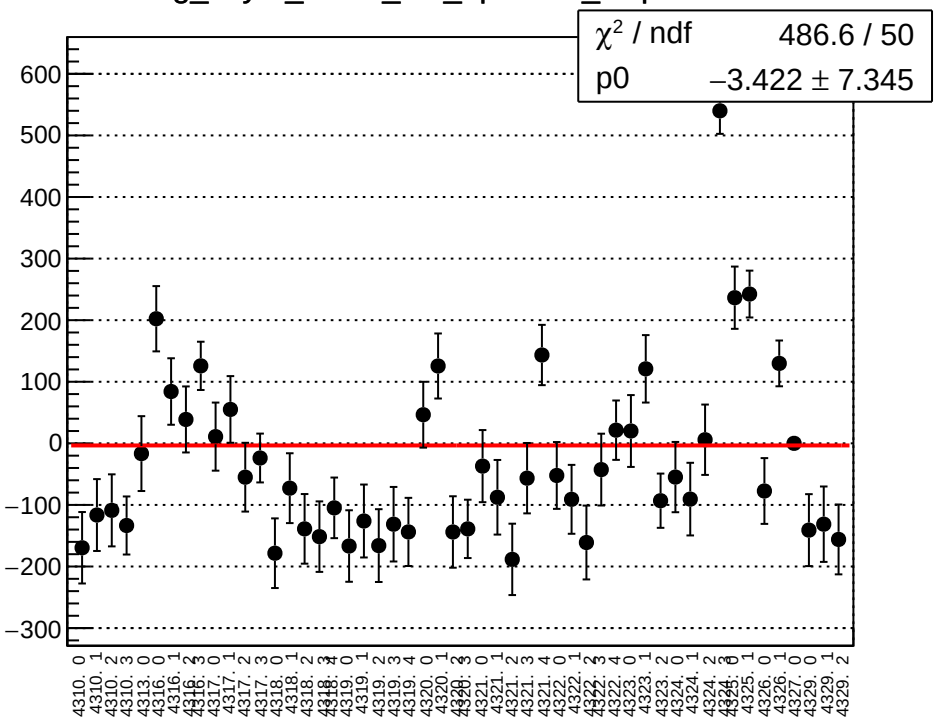

pull1D
Entries 52
Mean 0.6461
Std Dev 2.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

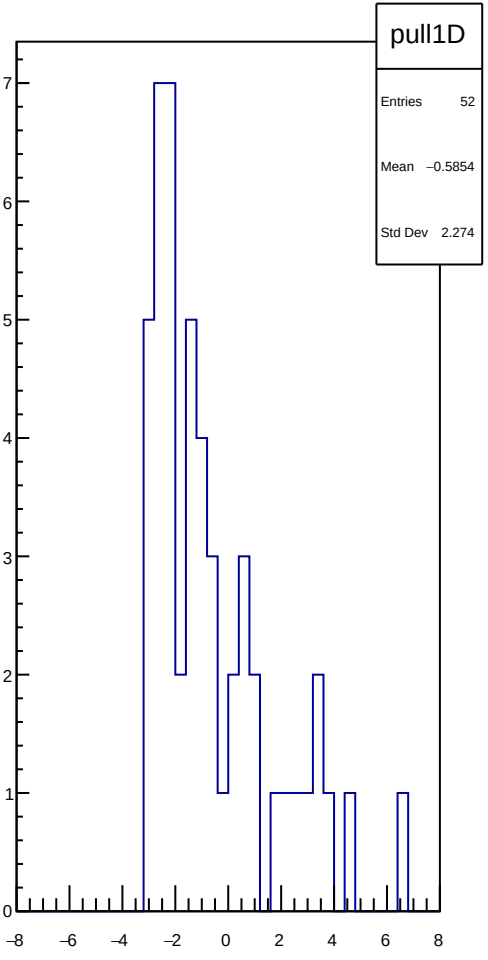

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 65.27 / 50
p0 25.75 ± 2.64
80
60
40
20
0
−20
−40
−60
−80
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

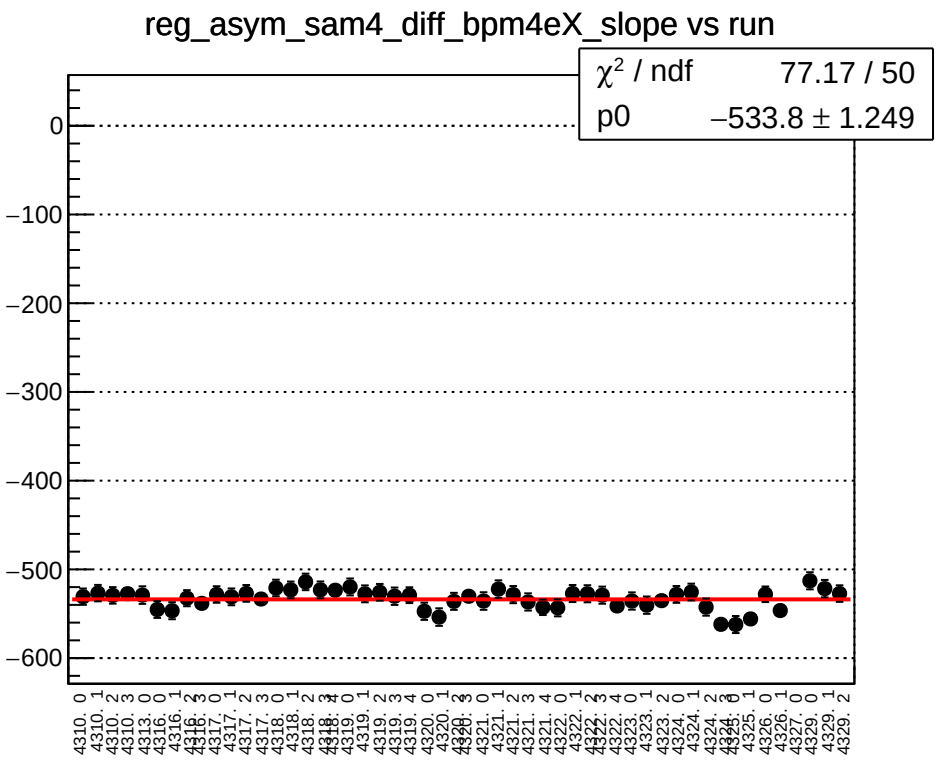

pull1D
Entries 52
Mean 0.07364
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

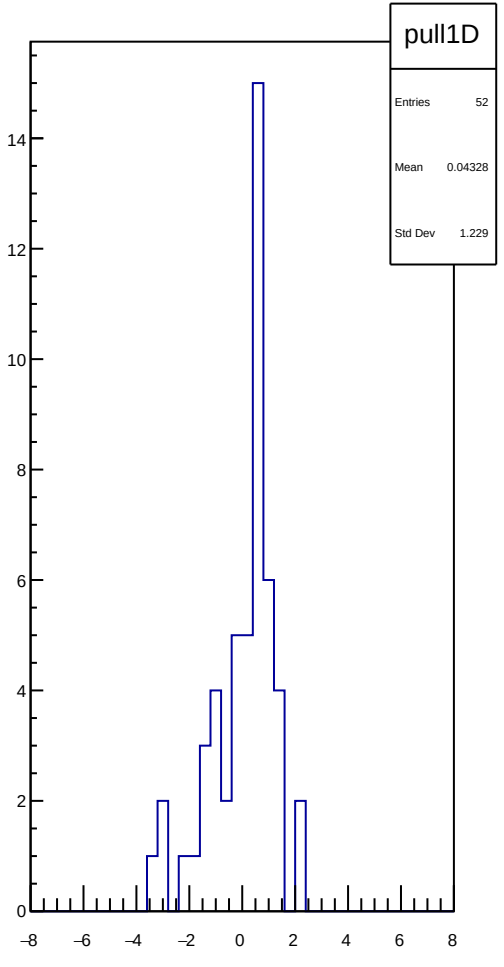

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 77.88 / 50
p0 170.6 ± 7.232
300
200
100
0
−100

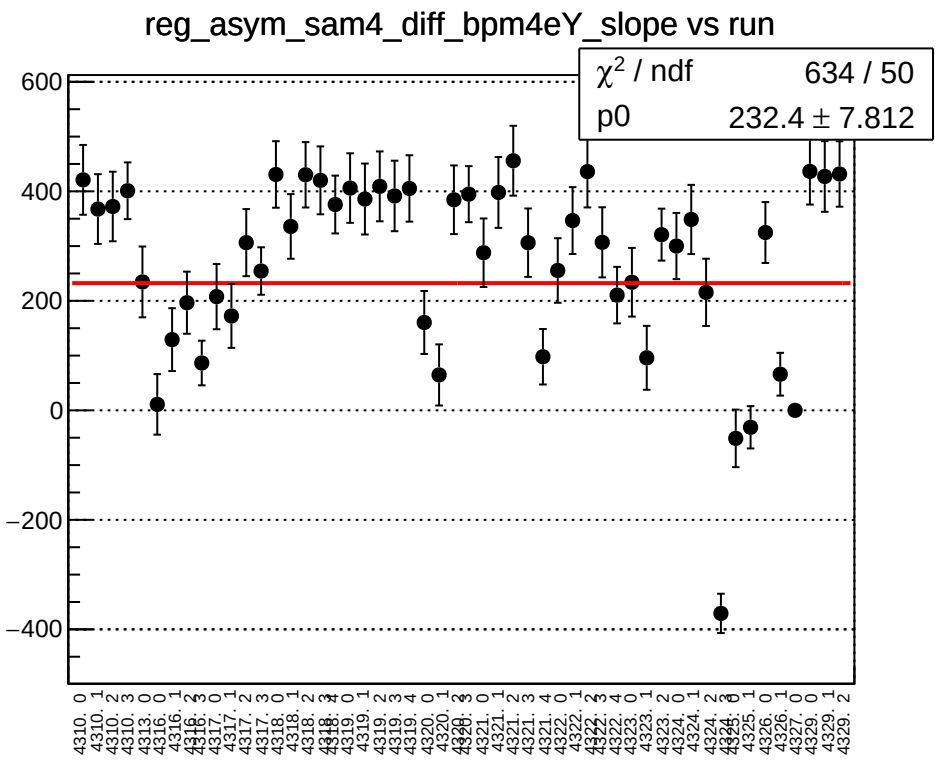

pull1D
Entries 52
Mean 0.03409
Std Dev 1.235
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

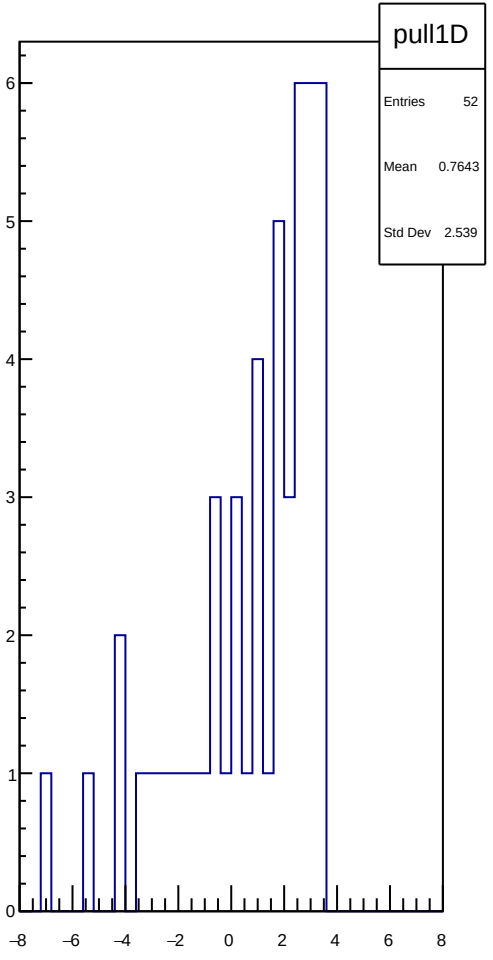

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 486.6 / 50
p0 −3.422 ± 7.345
600
500
400
300
200
100
0
−100
−200
−300
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

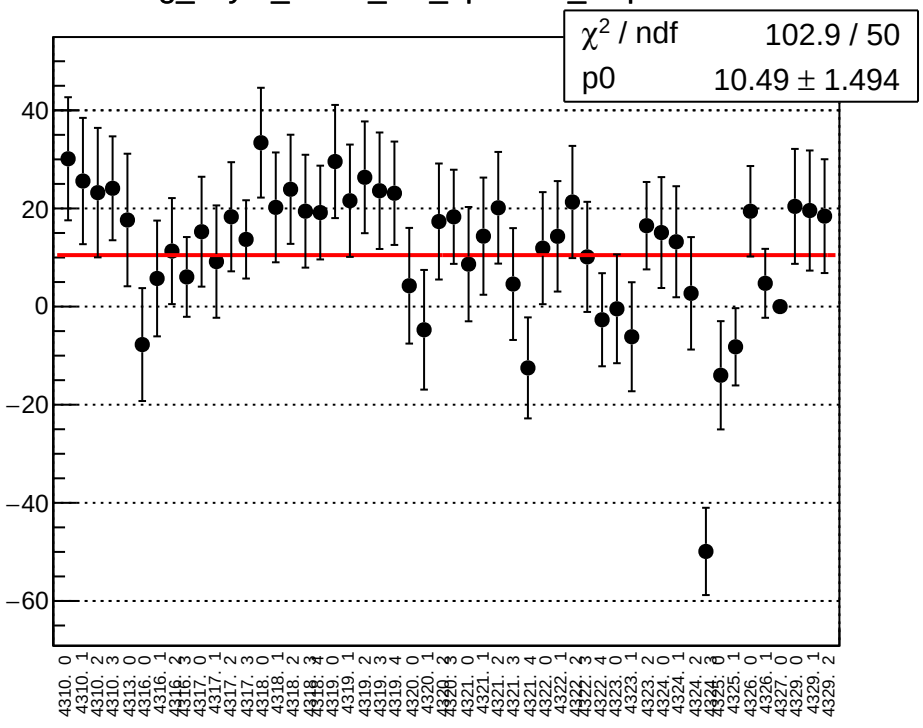

pull1D
Entries 52
Mean −0.5854
Std Dev 2.274
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

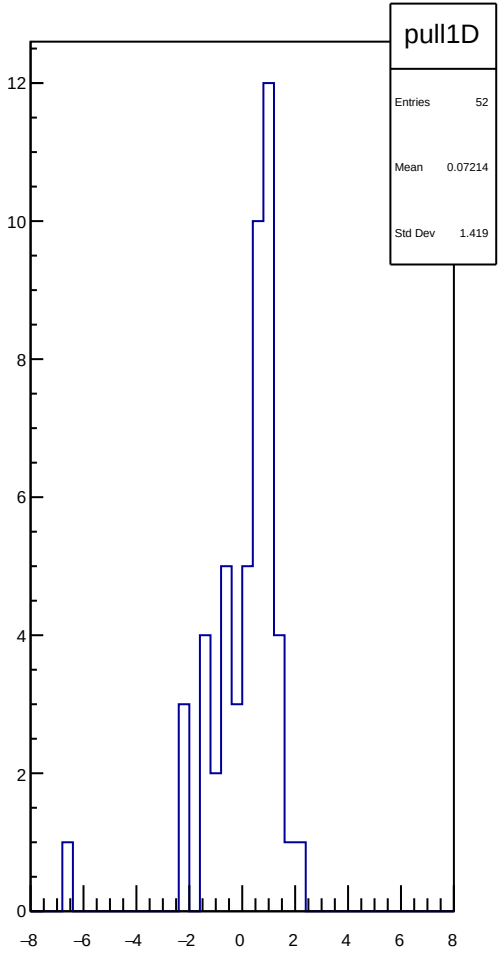

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 77.17 / 50
p0 −533.8 ± 1.249
0
−100
−200
−300
−400
−500
−600

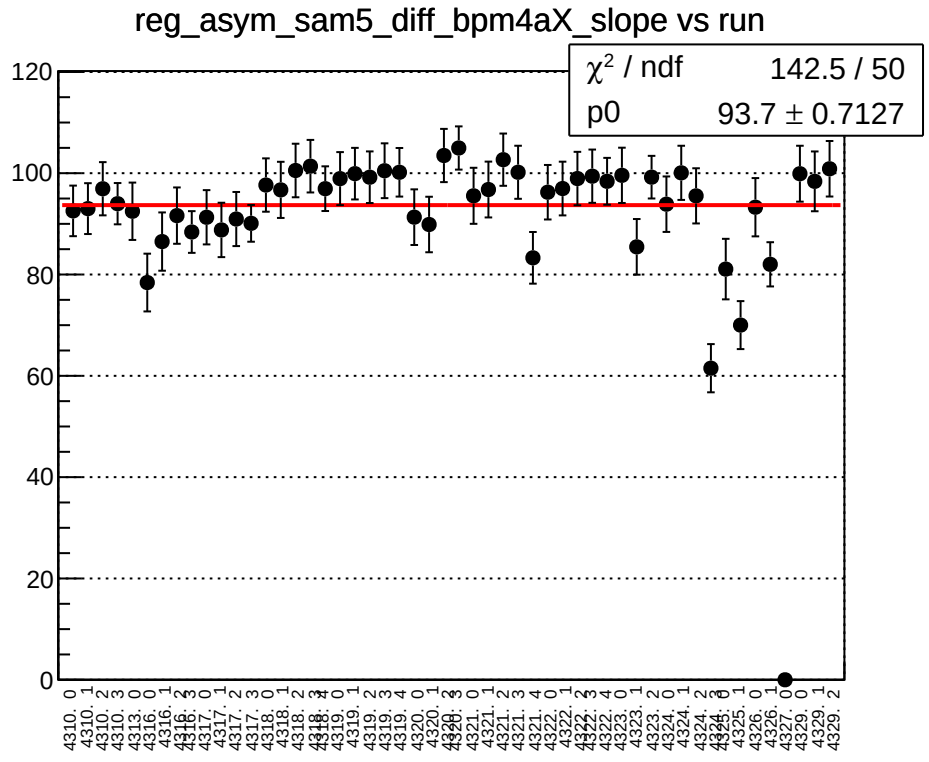

pull1D
Entries 52
Mean 0.04328
Std Dev 1.229
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

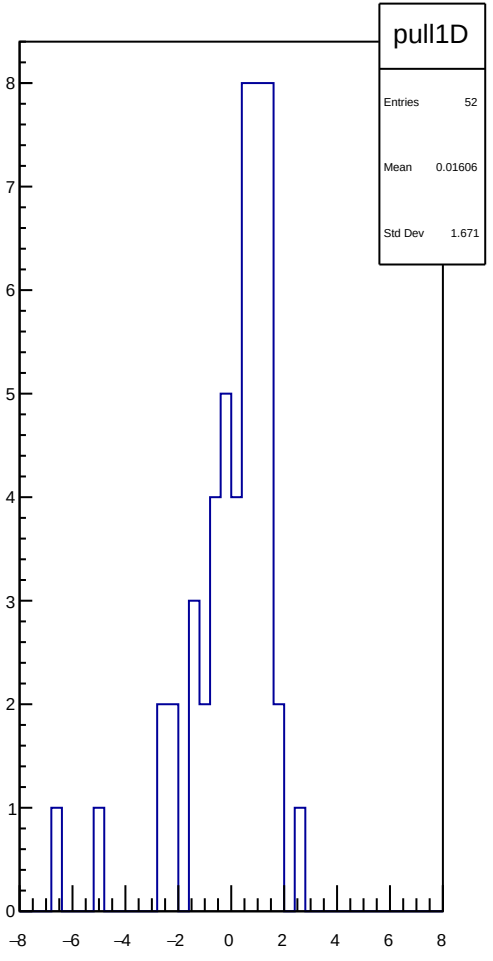

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 634 / 50
p0 232.4 ± 7.812
600
400
200
0
−200
−400

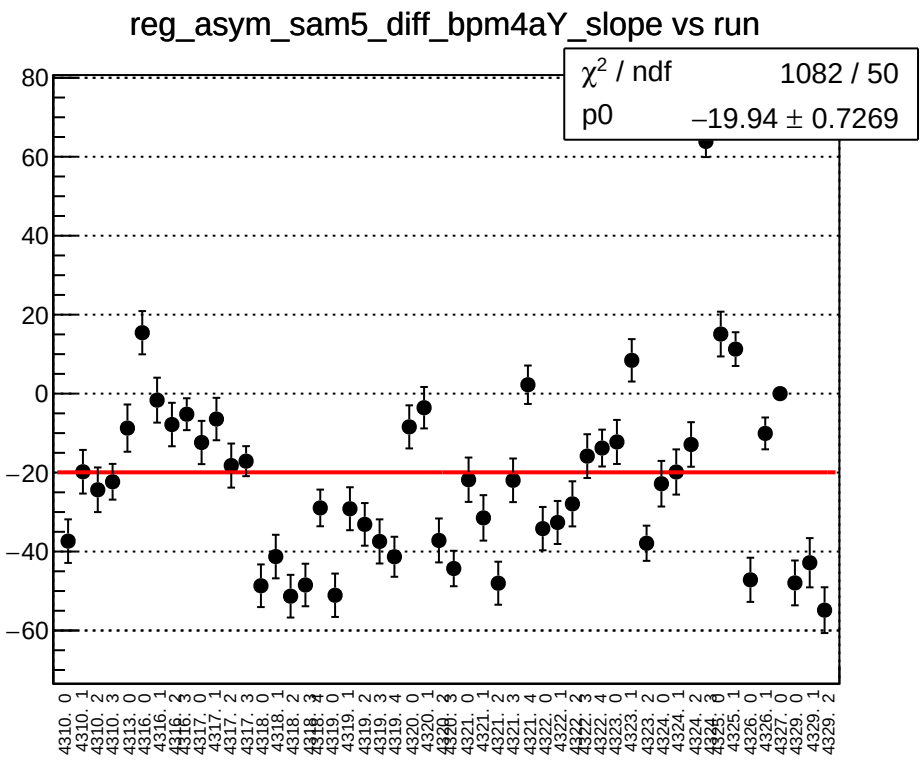

pull1D
Entries 52
Mean 0.7643
Std Dev 2.539
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

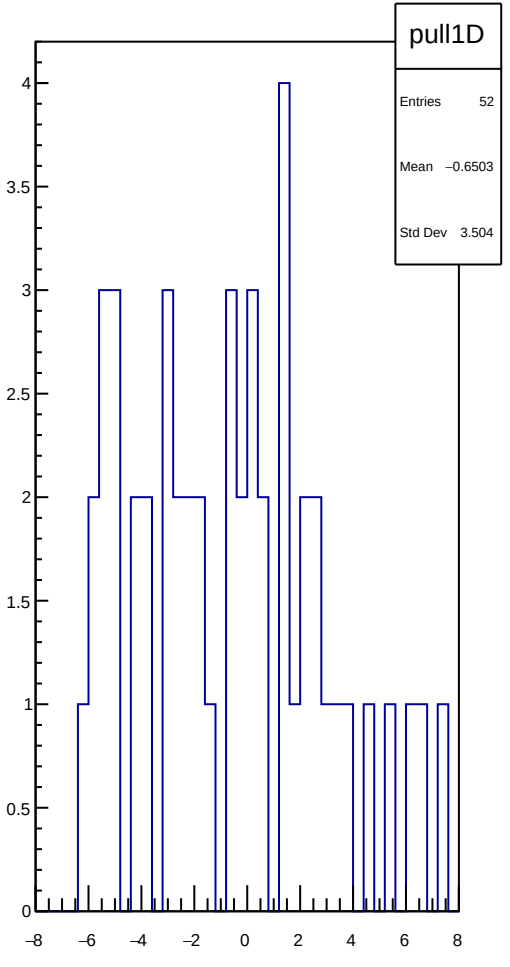

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 102.9 / 50
p0 10.49 ± 1.494
40
20
0
−20
−40
−60

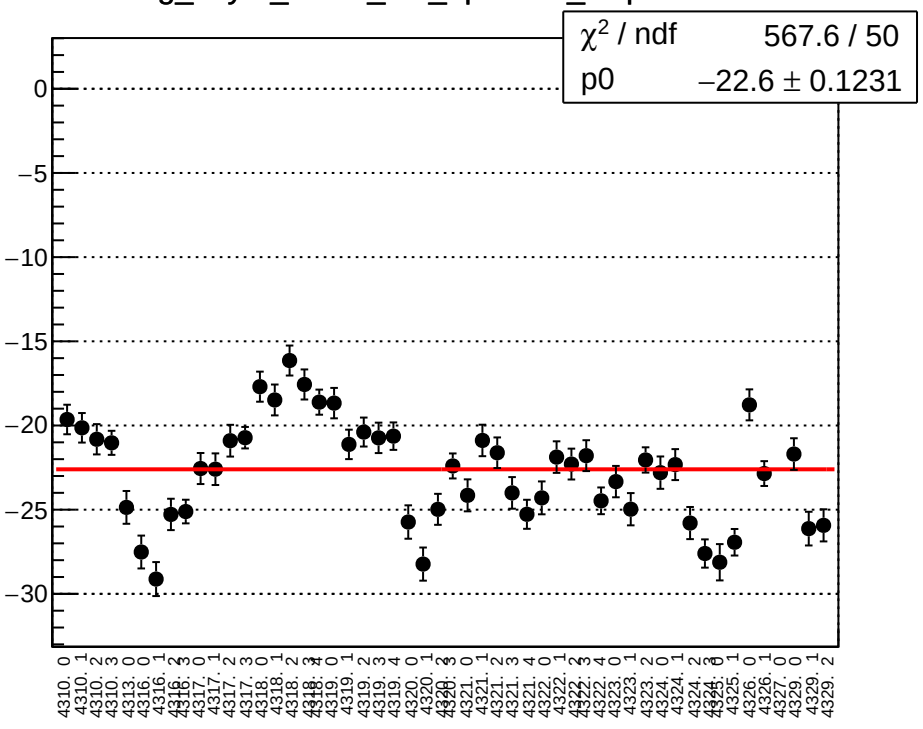

pull1D
Entries 52
Mean 0.07214
Std Dev 1.419
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

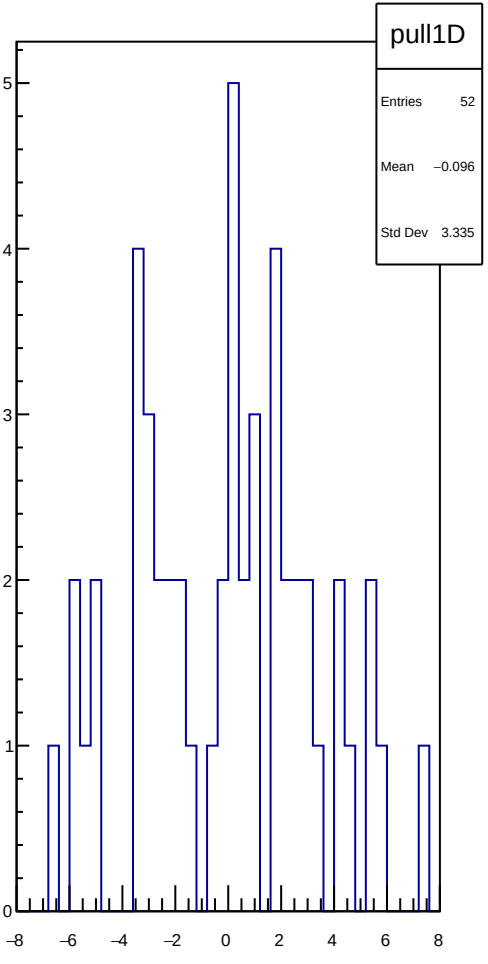

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 142.5 / 50
p0 93.7 ± 0.7127
120
100
80
60
40
20
0

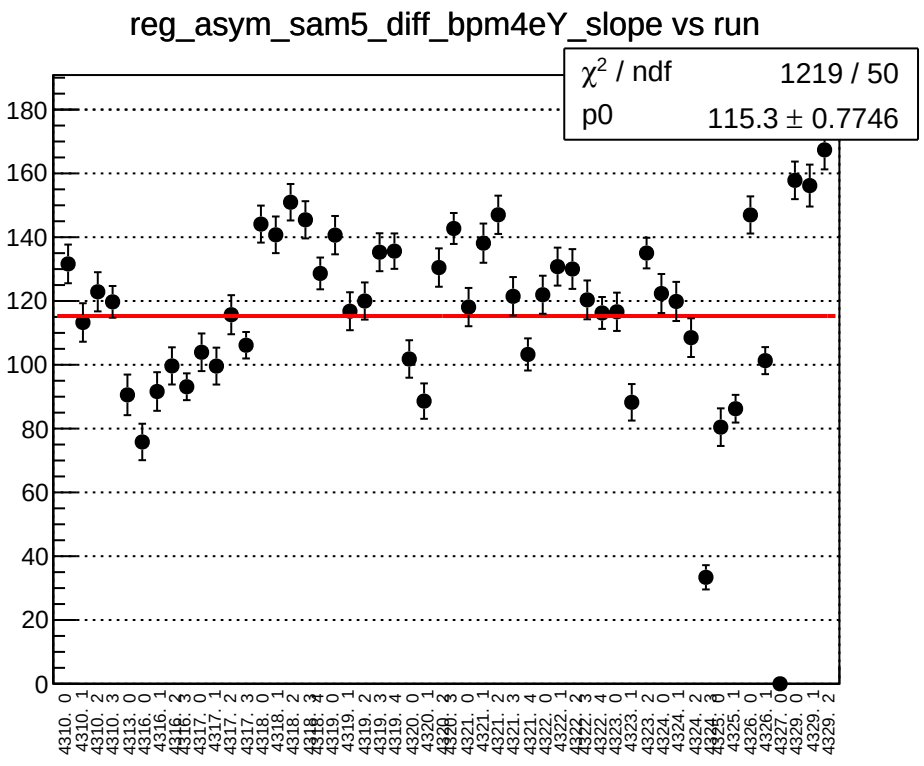

pull1D
Entries 52
Mean 0.01606
Std Dev 1.671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

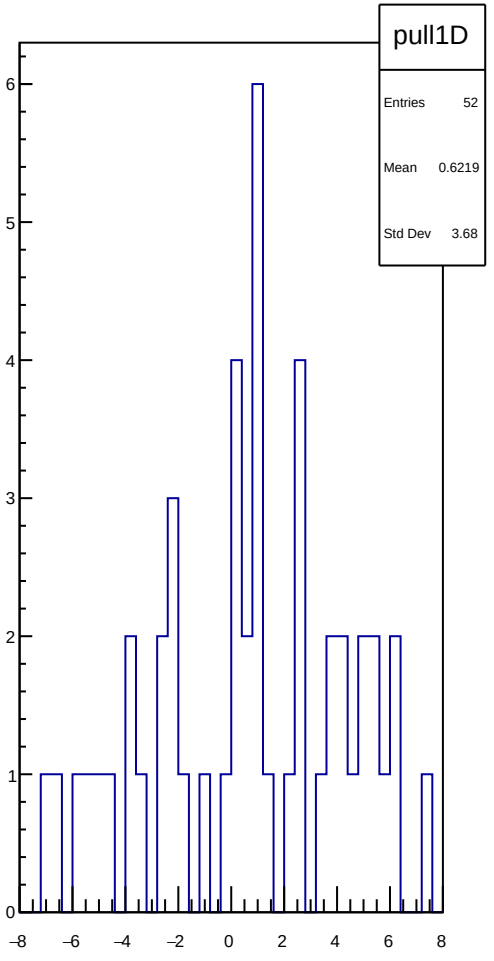

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 1082 / 50
p0 −19.94 ± 0.7269
80
60
40
20
0
−20
−40
−60

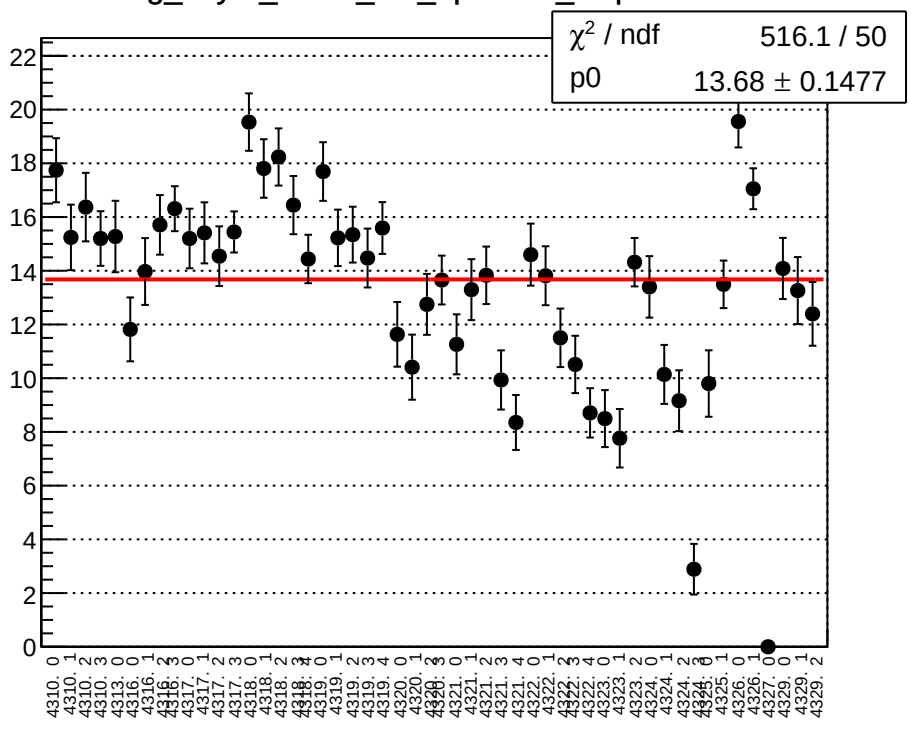

pull1D
Entries 52
Mean −0.6503
Std Dev 3.504
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

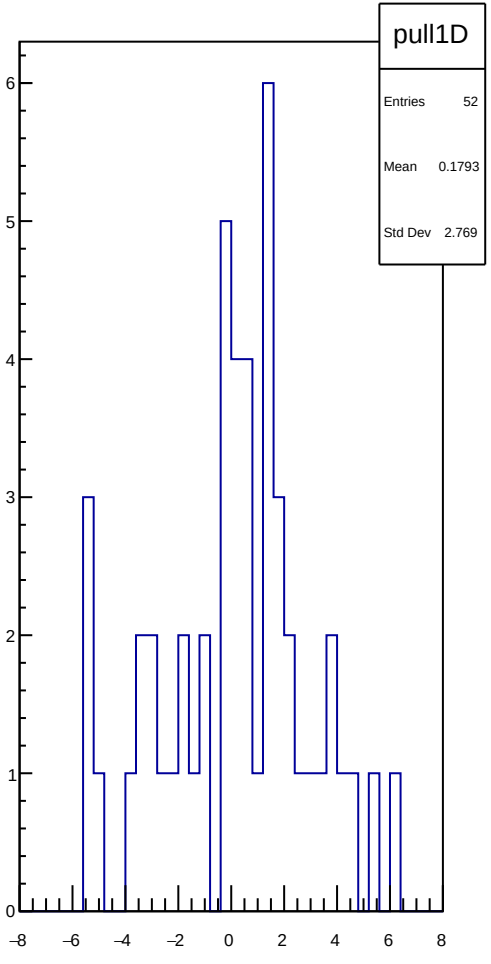

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 567.6 / 50
p0 −22.6 ± 0.1231
0
−5
−10
−15
−20
−25
−30

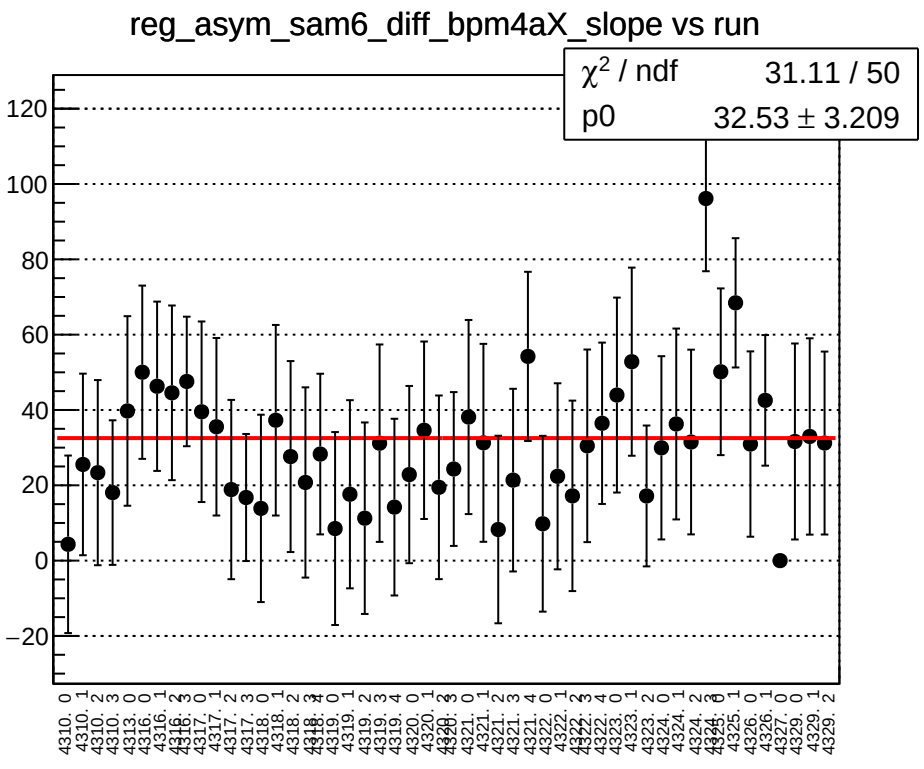

pull1D
Entries 52
Mean −0.096
Std Dev 3.335
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

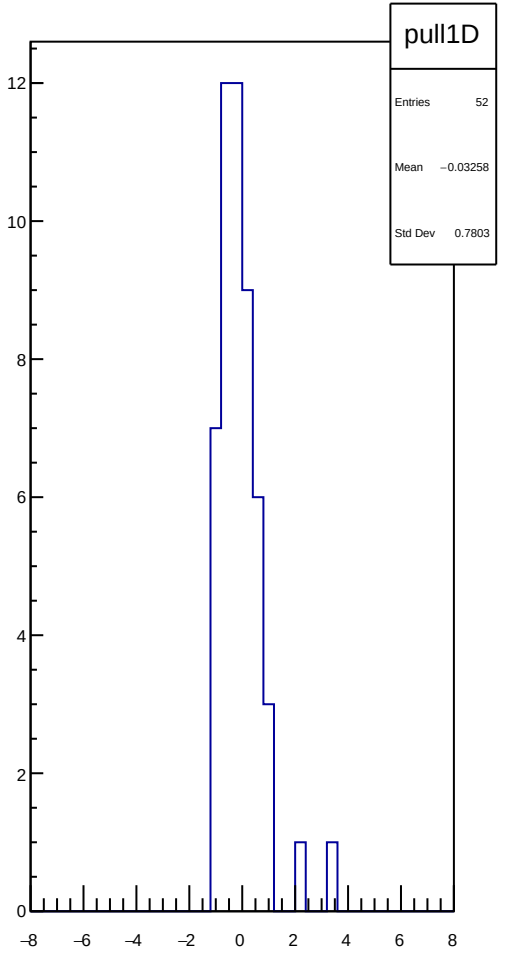

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1219 / 50
p0 115.3 ± 0.7746

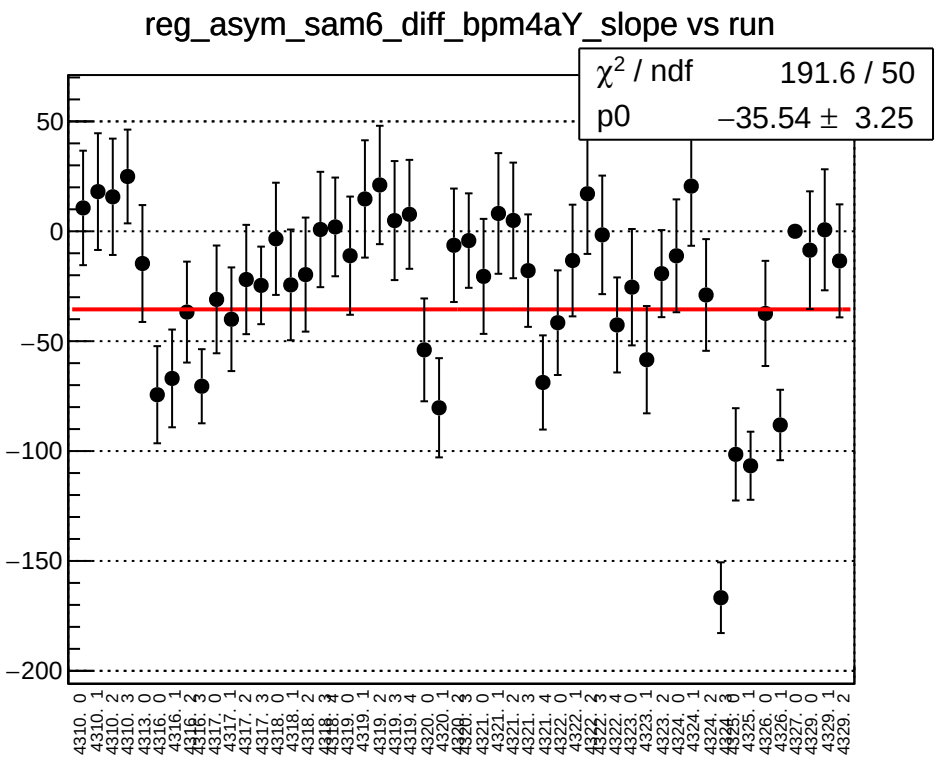

pull1D
Entries 52
Mean 0.6219
Std Dev 3.68

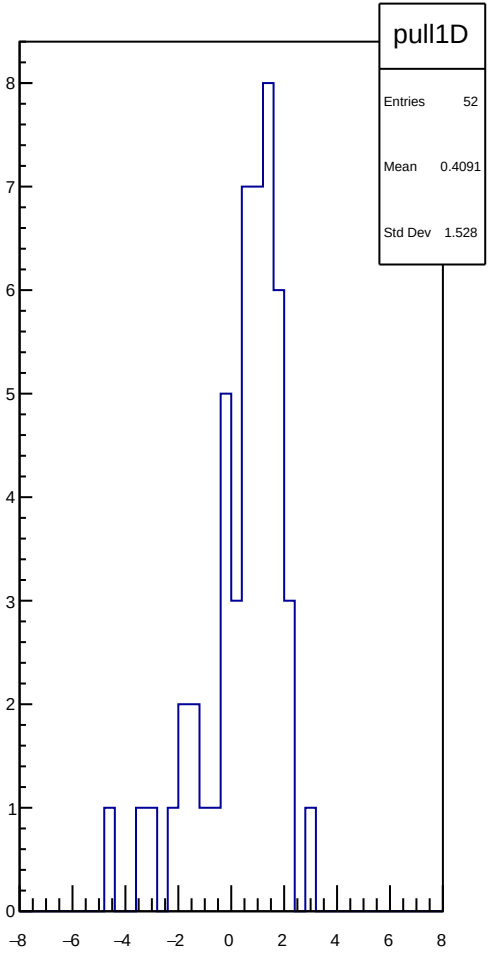

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 516.1 / 50
p0 13.68 ± 0.1477

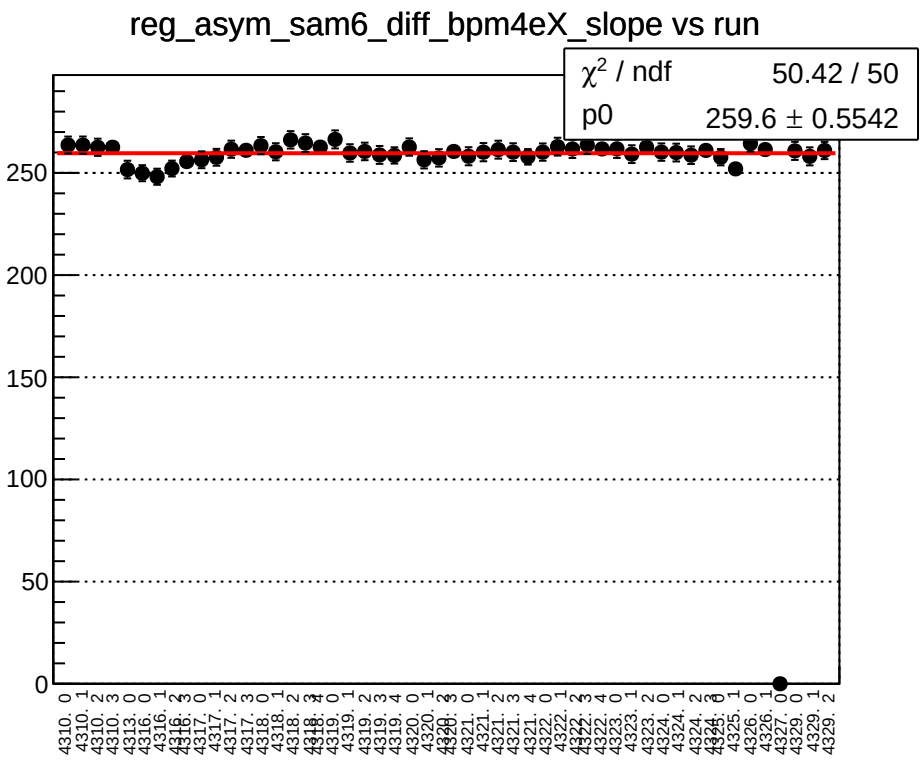

pull1D
Entries 52
Mean 0.1793
Std Dev 2.769

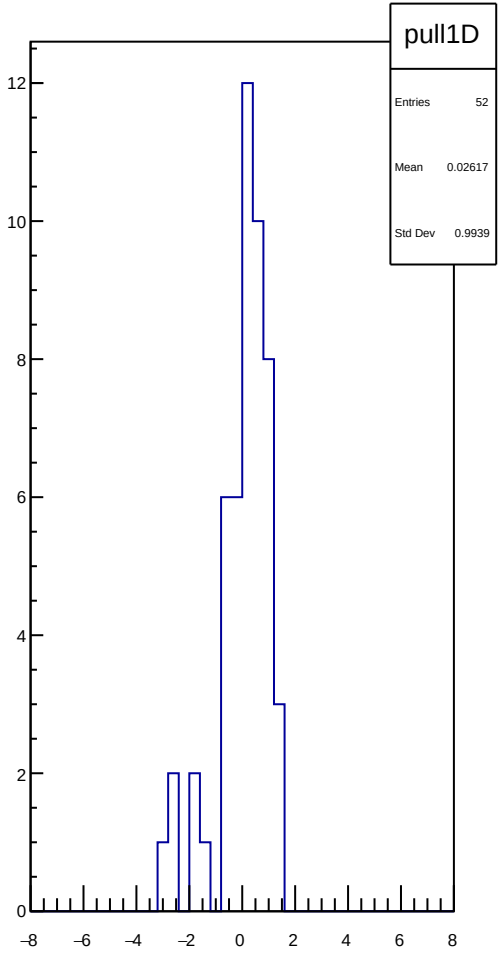

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 31.11 / 50
p0 32.53 ± 3.209
120
100
80
60
40
20
0
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

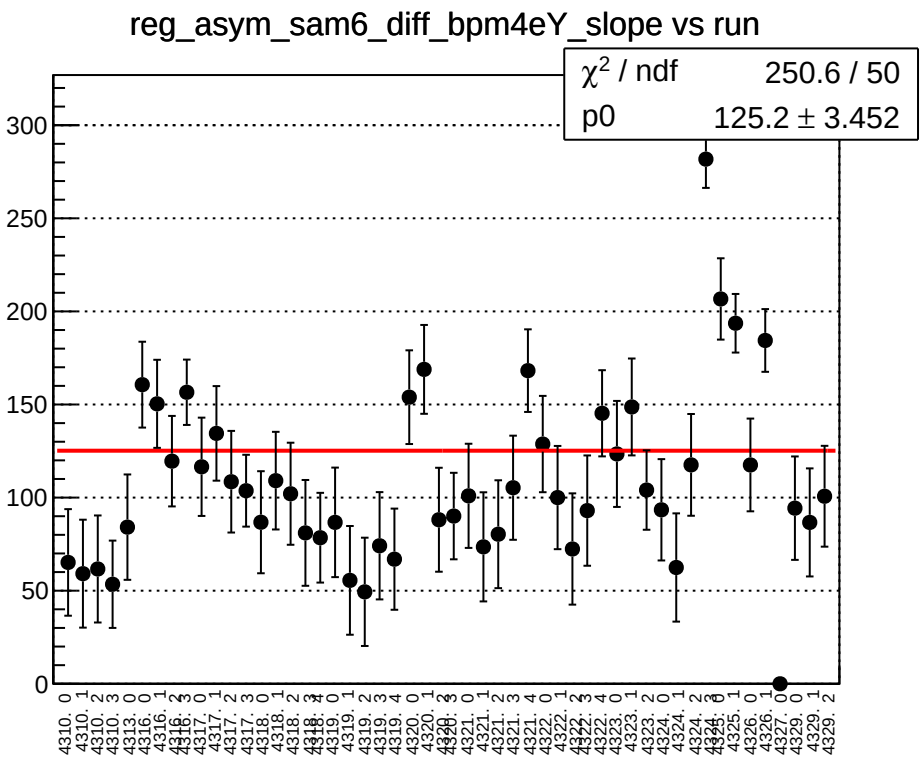

pull1D
Entries 52
Mean −0.03258
Std Dev 0.7803
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

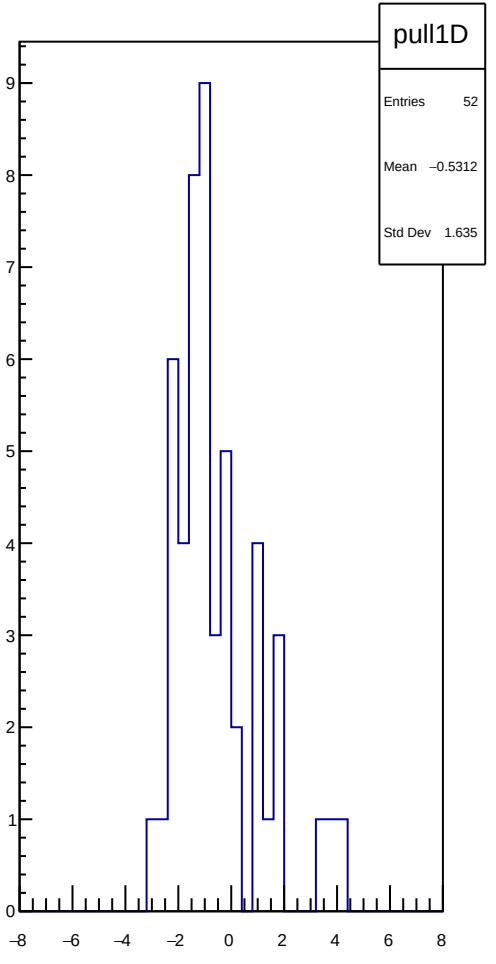

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 191.6 / 50
p0 −35.54 ± 3.25
50
0
−50
−100
−150
−200

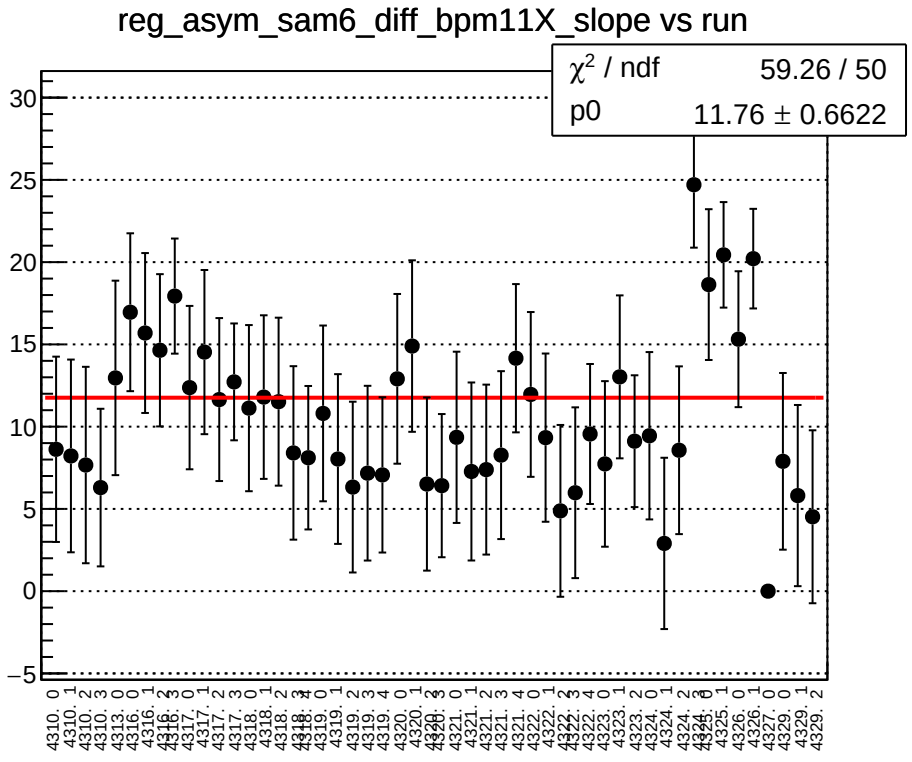

pull1D
Entries 52
Mean 0.4091
Std Dev 1.528
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

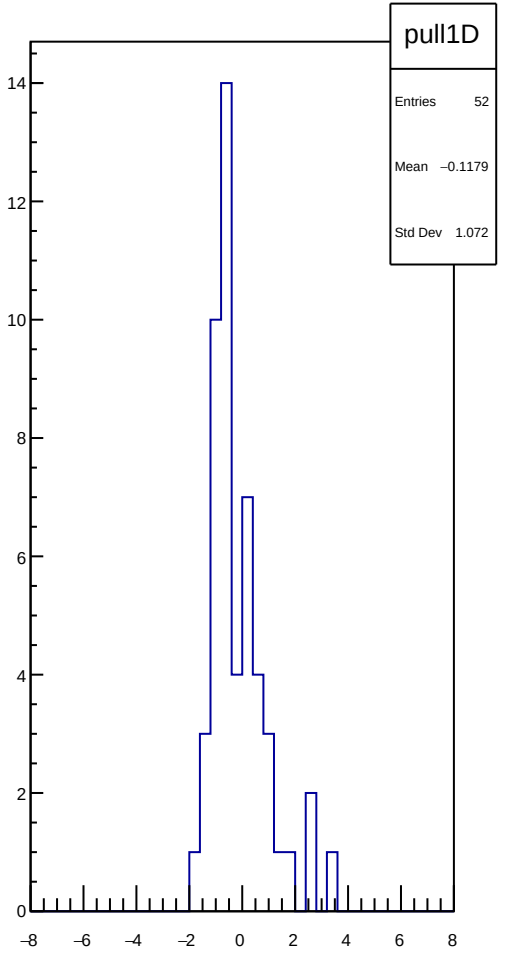

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 50.42 / 50
p0 259.6 ± 0.5542
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

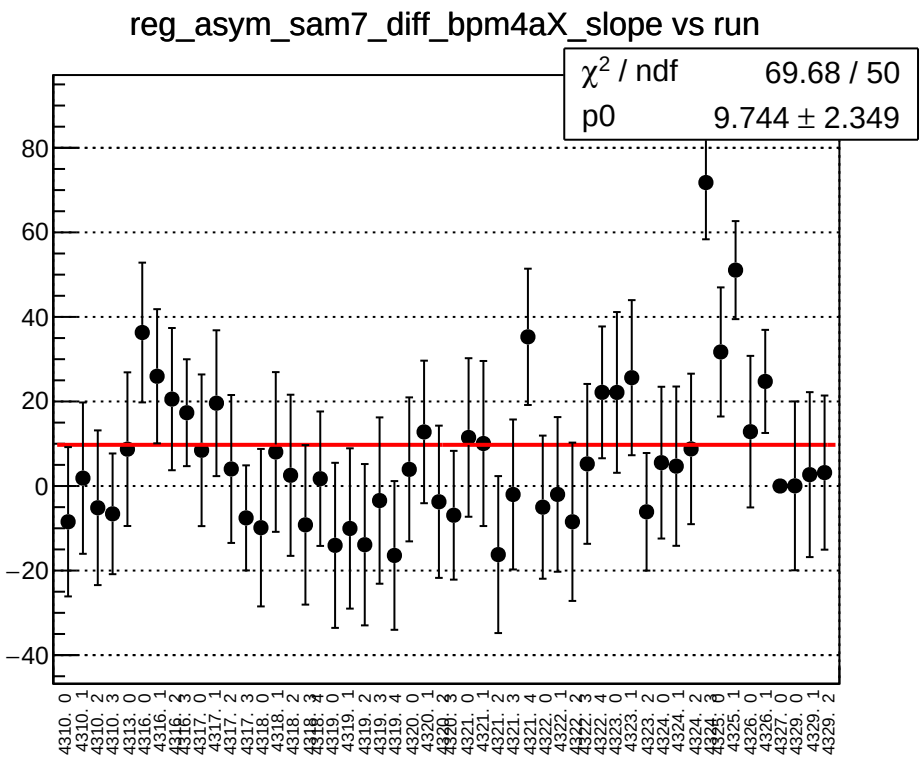

pull1D
Entries 52
Mean 0.02617
Std Dev 0.9939
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

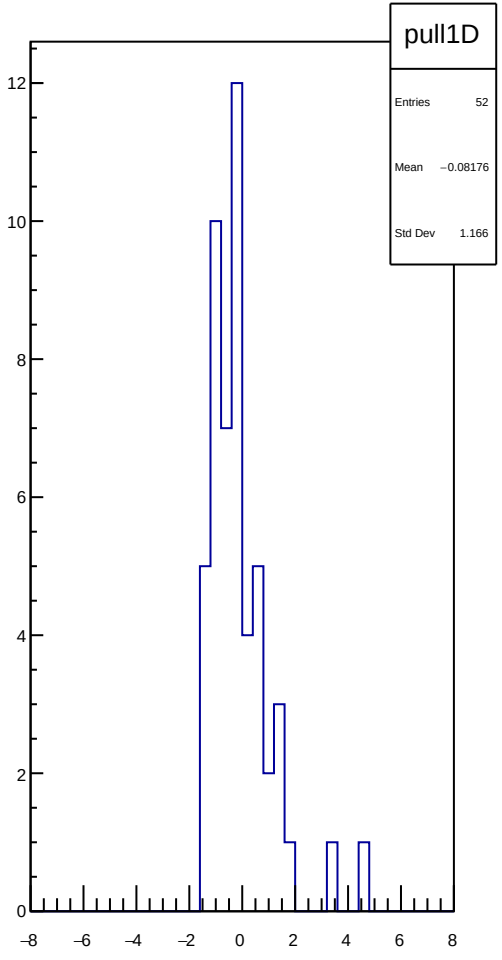

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 250.6 / 50
p0 125.2 ± 3.452
300
250
200
150
100
50
0

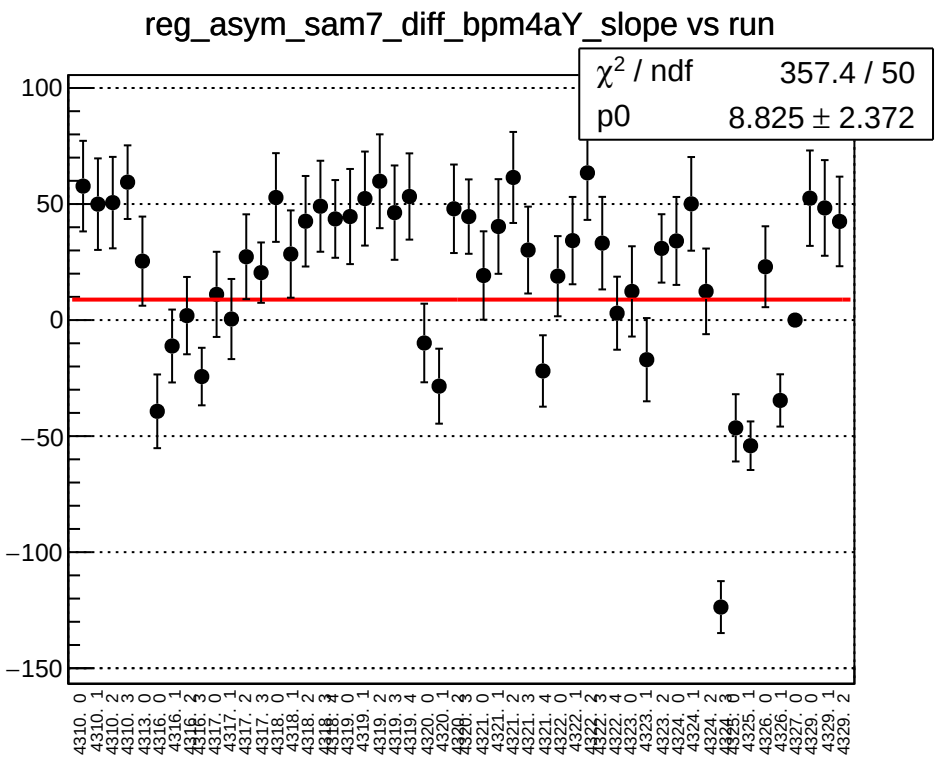

pull1D
Entries 52
Mean −0.5312
Std Dev 1.635
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

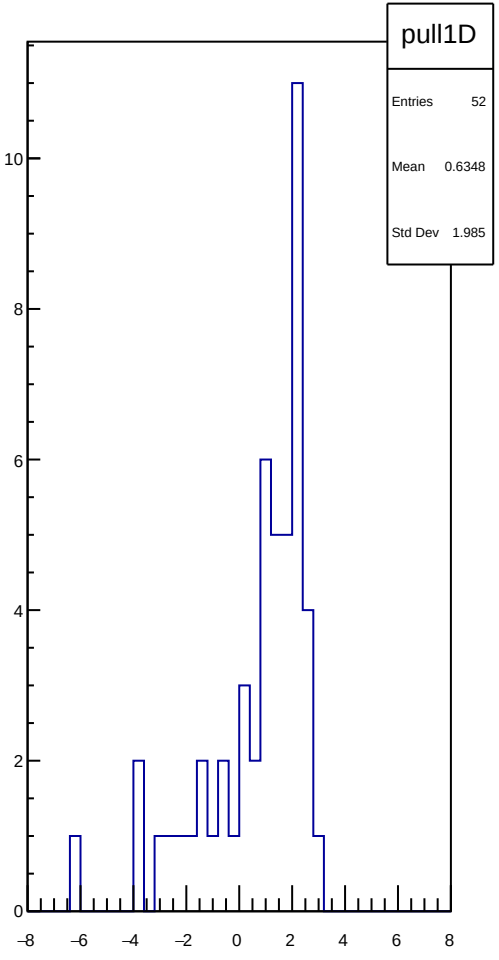

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 59.26 / 50
p0 11.76 ± 0.6622

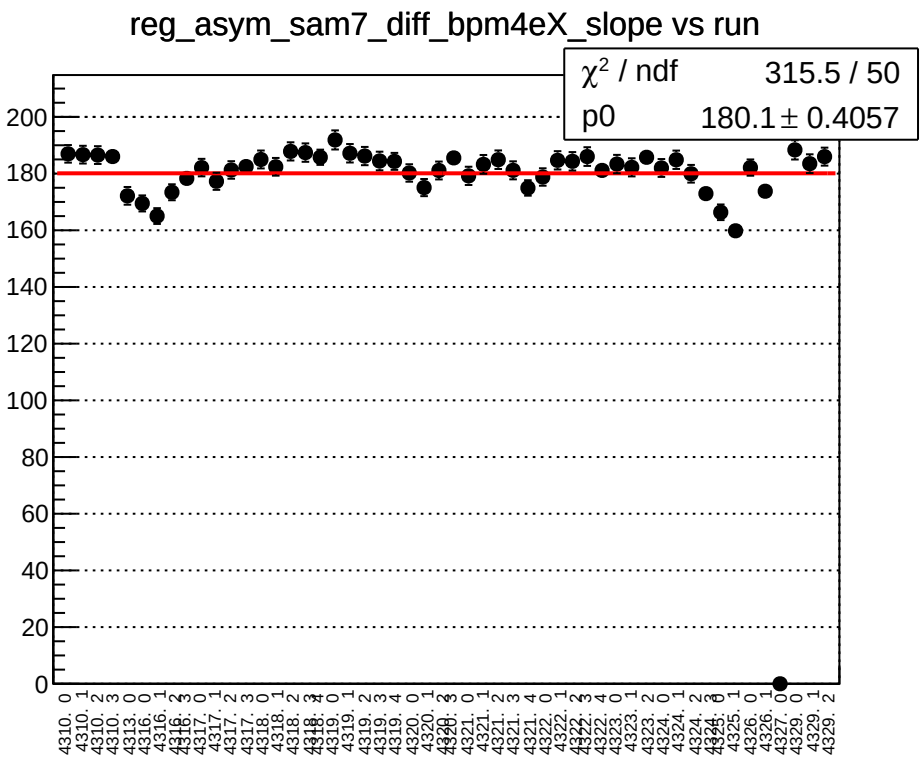

pull1D
Entries 52
Mean −0.1179
Std Dev 1.072

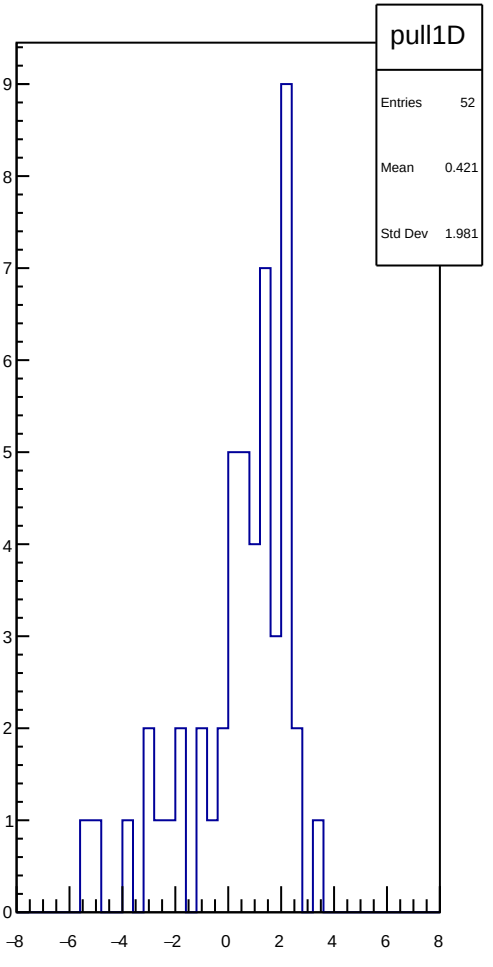

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 69.68 / 50
p0 9.744 ± 2.349
80
60
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

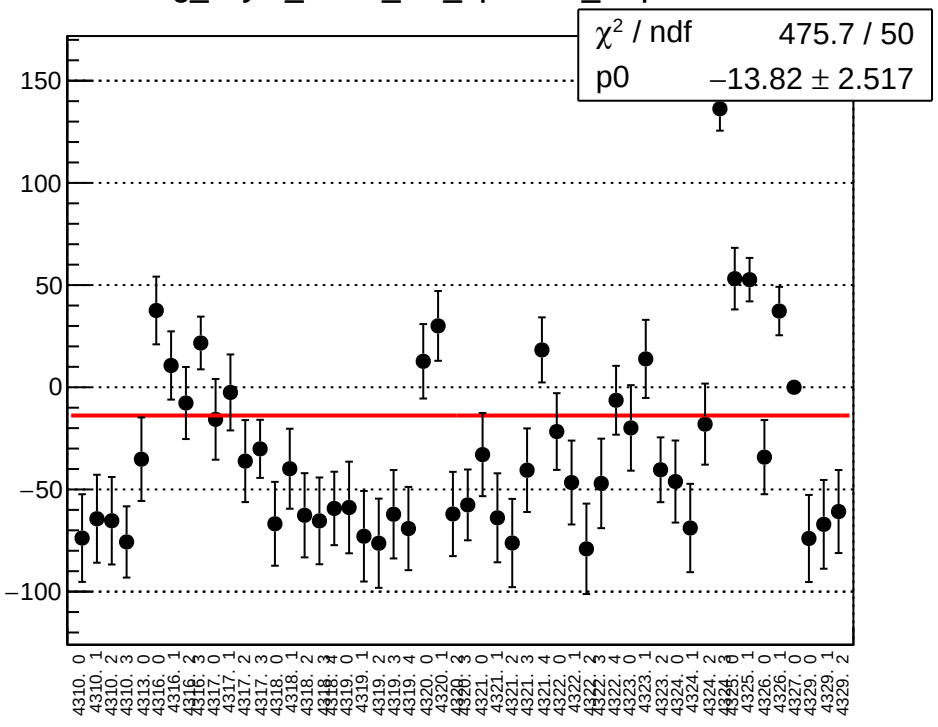

pull1D
Entries 52
Mean −0.08176
Std Dev 1.166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

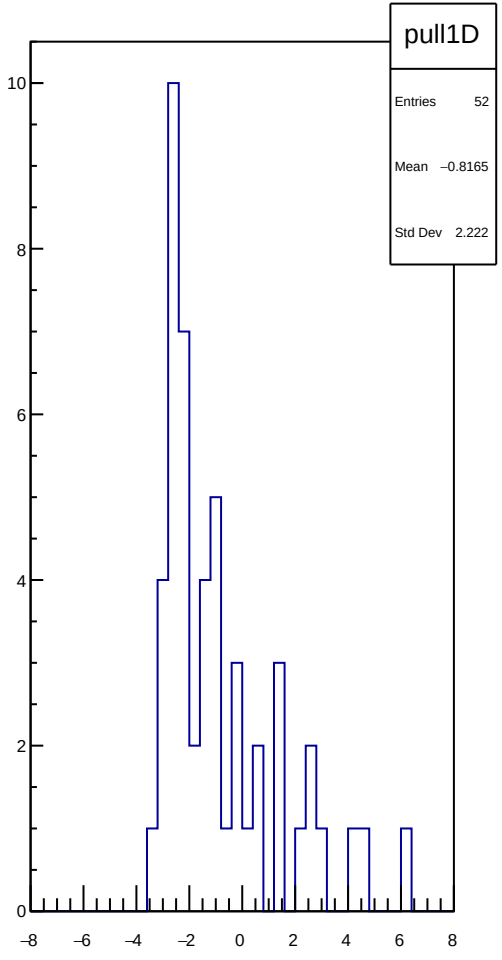

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 357.4 / 50
p0 8.825 ± 2.372
100
50
0
−50
−100
−150

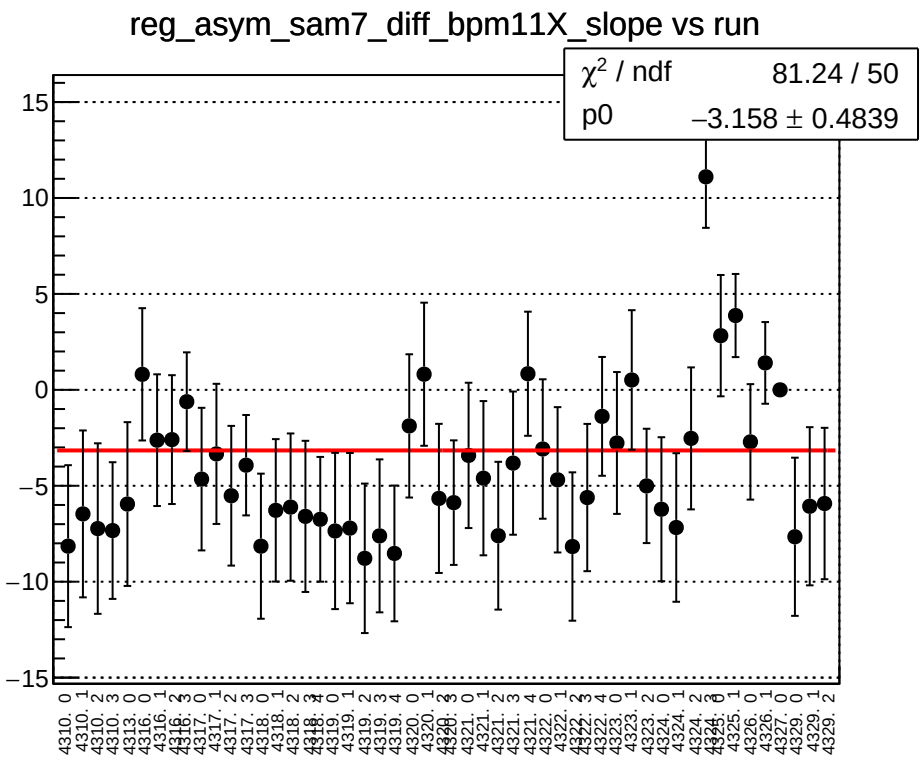

pull1D
Entries 52
Mean 0.6348
Std Dev 1.985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

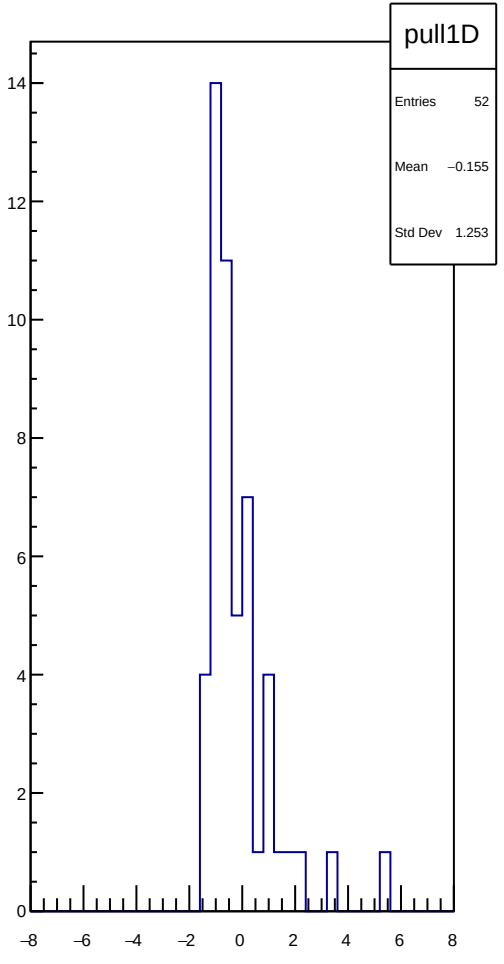

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 315.5 / 50
p0 180.1 ± 0.4057

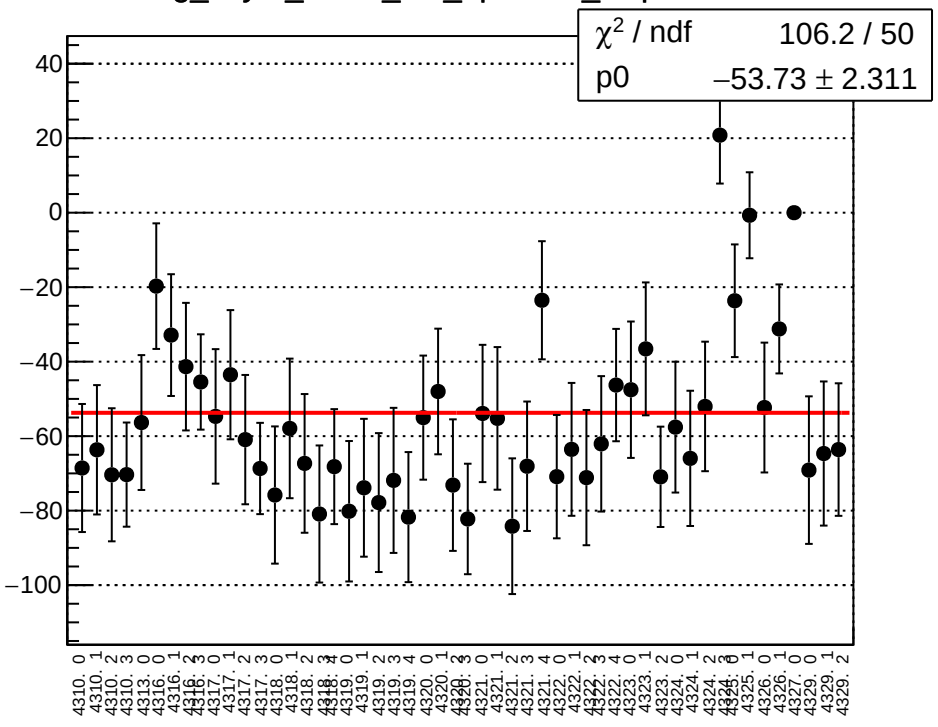

pull1D
Entries 52
Mean 0.421
Std Dev 1.981

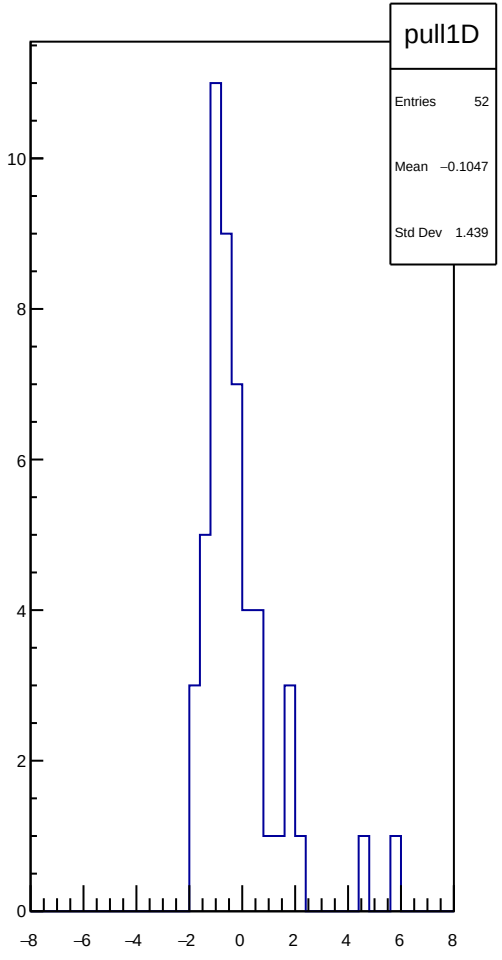

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 475.7 / 50
p0 −13.82 ± 2.517
150
100
50
0
−50
−100

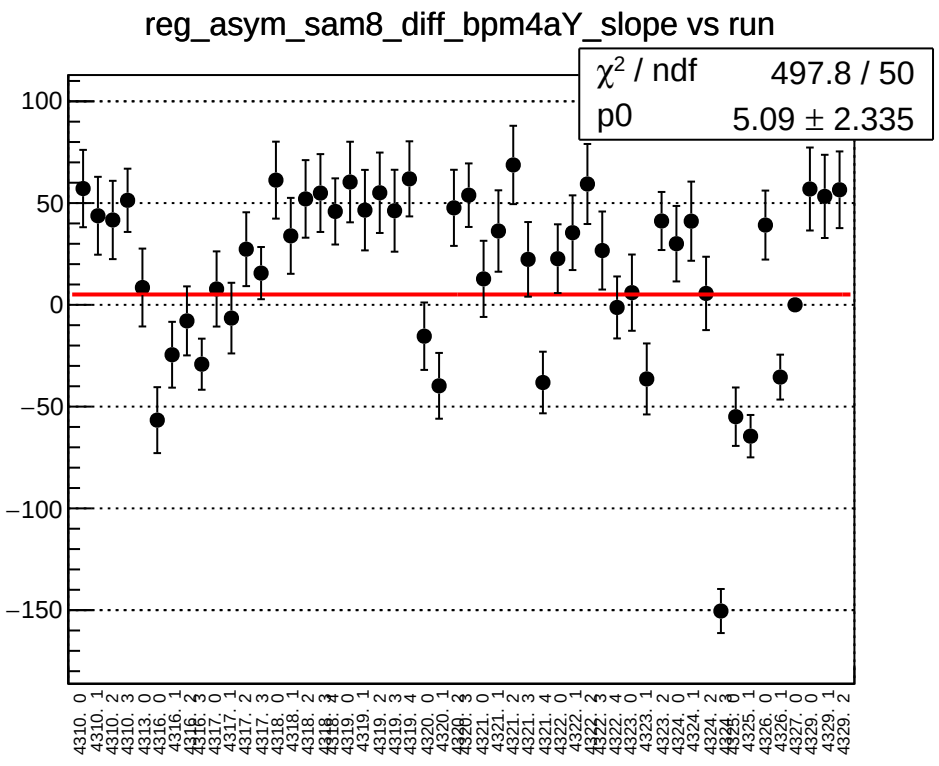

pull1D
Entries 52
Mean −0.8165
Std Dev 2.222
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

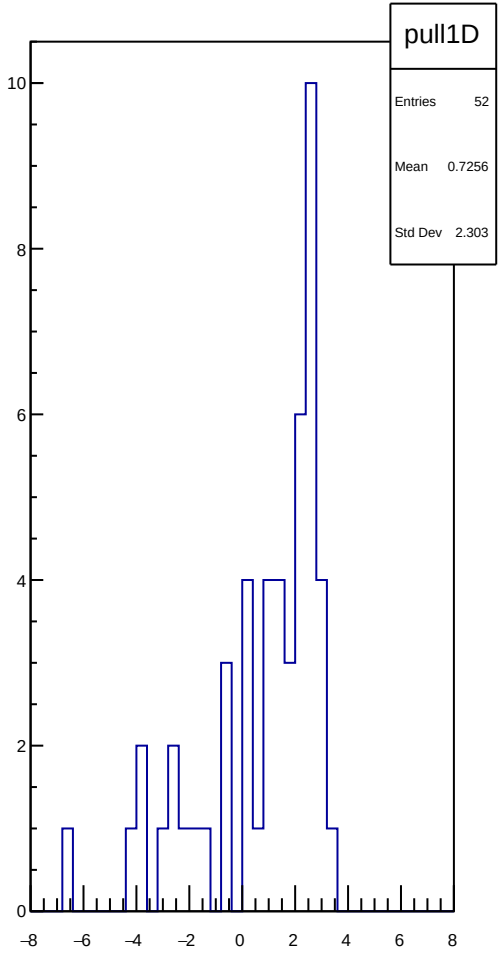

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 81.24 / 50
p0 −3.158 ± 0.4839
15
10
5
0
−5
−10
−15

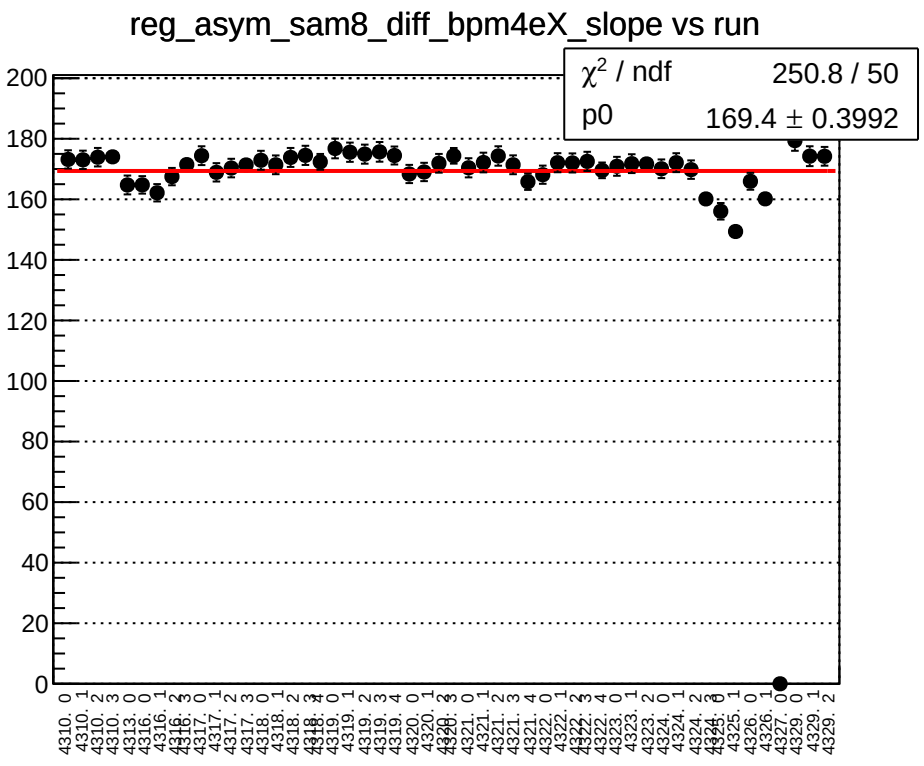

pull1D
Entries 52
Mean −0.155
Std Dev 1.253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

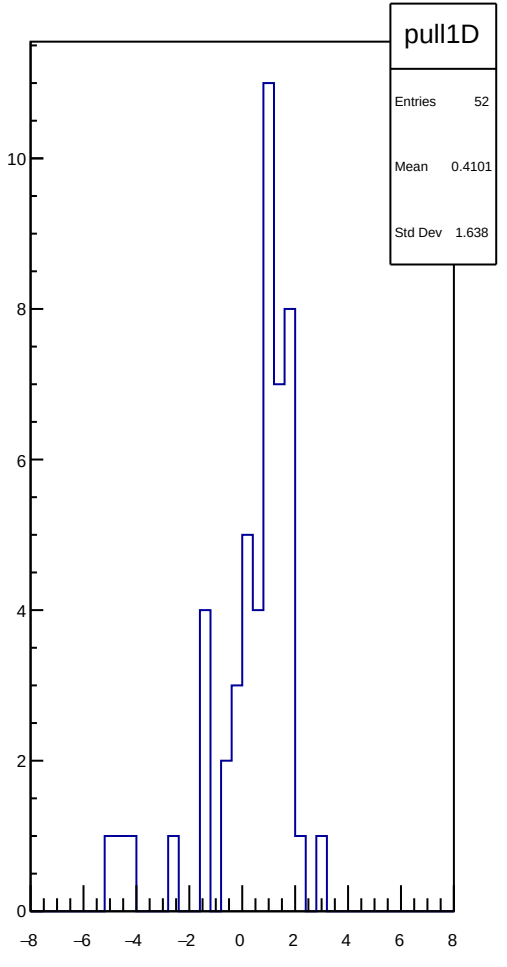

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 106.2 / 50
p0 −53.73 ± 2.311
40
20
0
−20
−40
−60
−80
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.1047
Std Dev 1.439
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 497.8 / 50
p0 5.09 ± 2.335
100
50
0
−50
−100
−150


pull1D
Entries 52
Mean 0.7256
Std Dev 2.303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 250.8 / 50
p0 169.4 ± 0.3992
200
180
160
140
120
100
80
60
40
20
0


pull1D
Entries 52
Mean 0.4101
Std Dev 1.638
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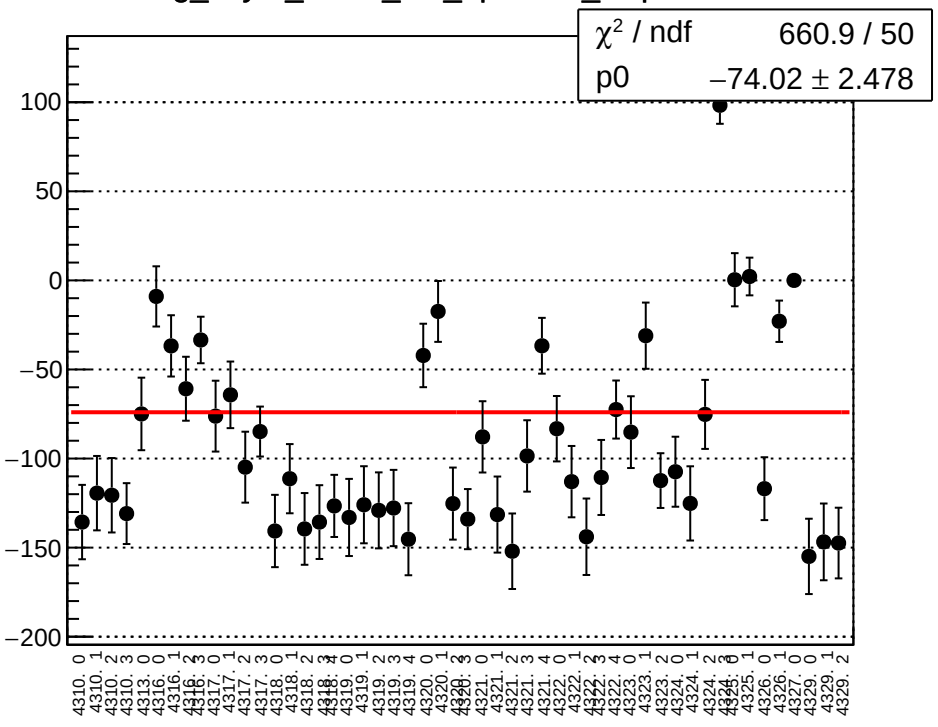
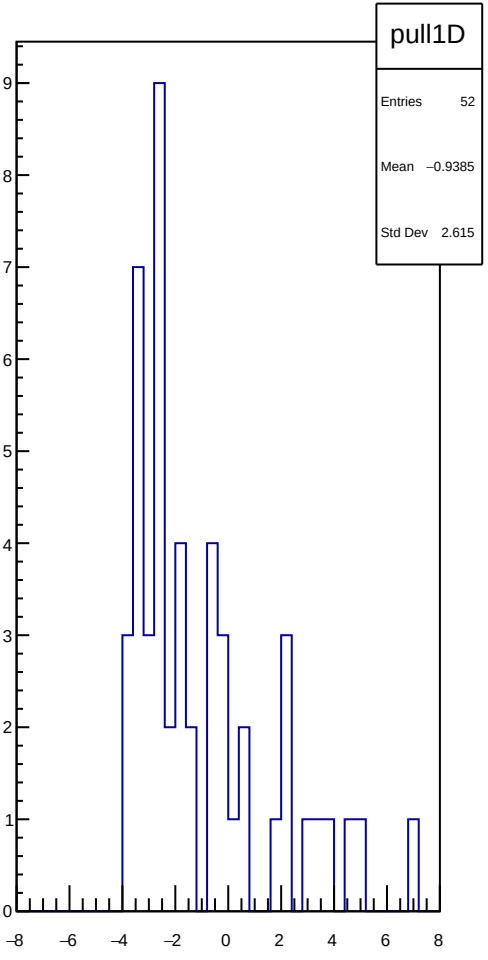
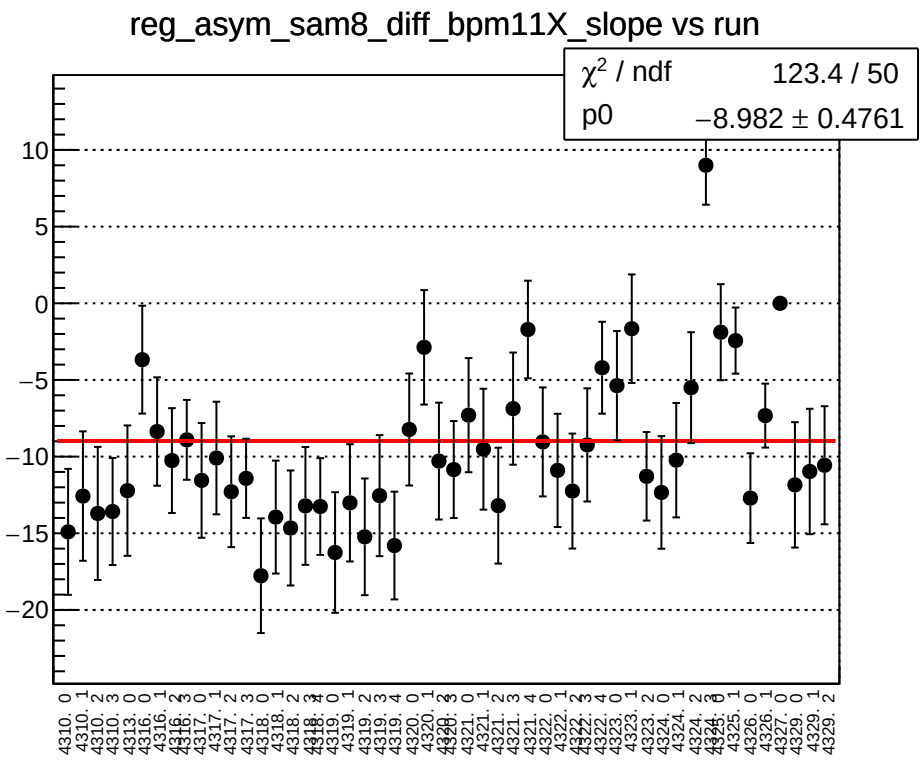
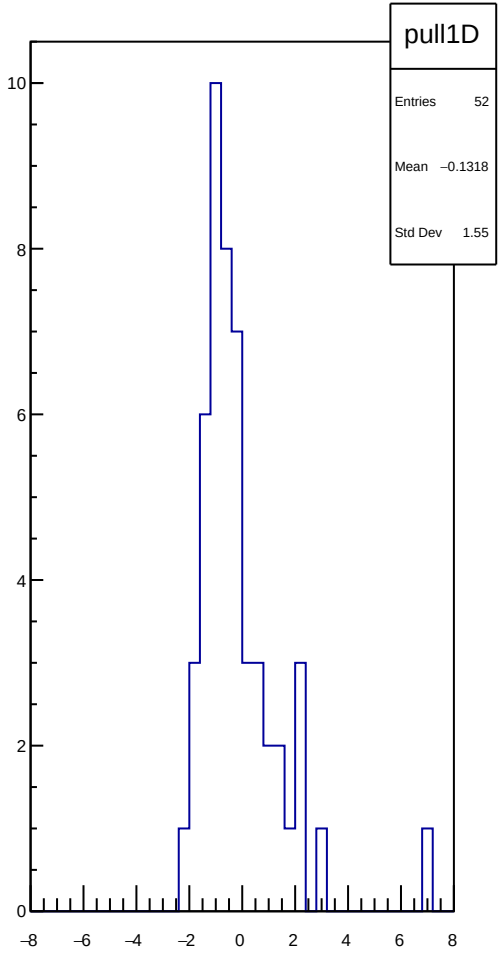
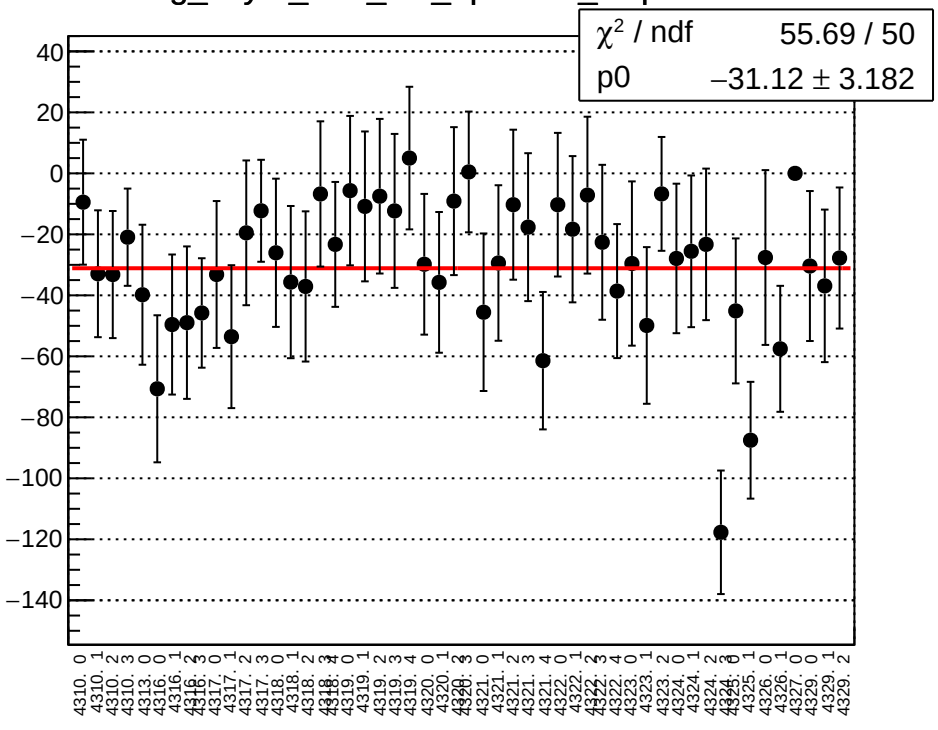
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

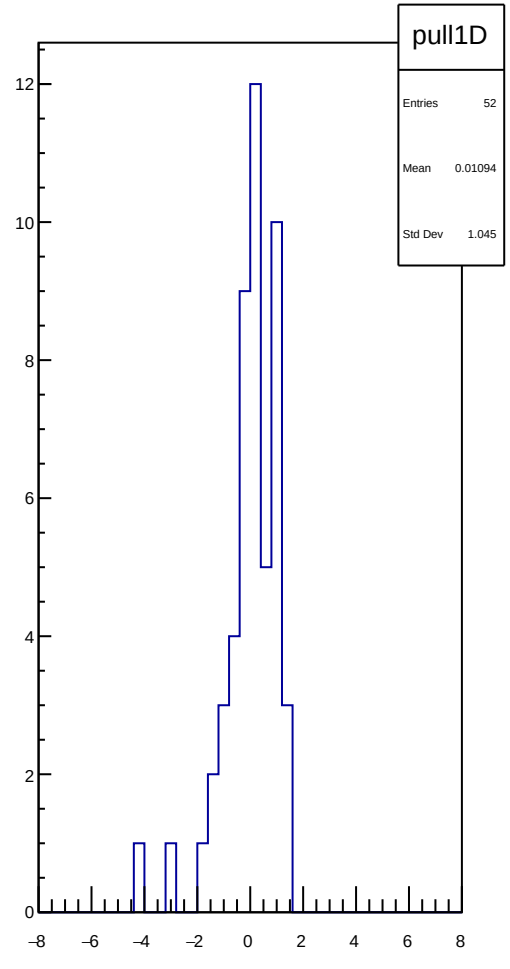

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 660.9 / 50
p0 −74.02 ± 2.478
100
50
0
−50
−100
−150
−200

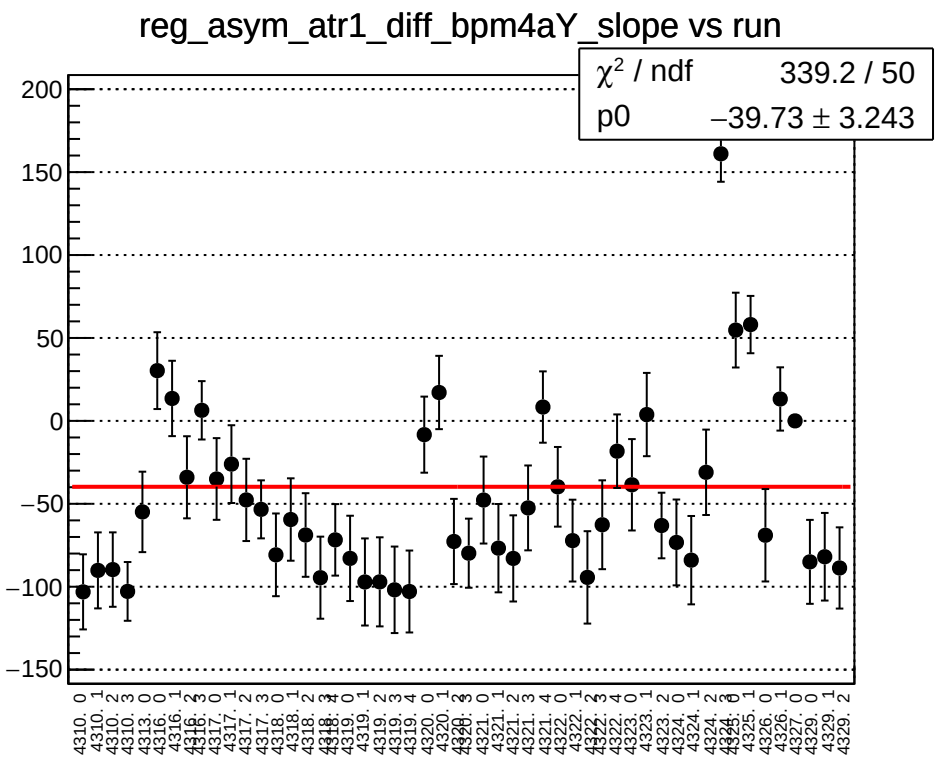

pull1D
Entries 52
Mean −0.9385
Std Dev 2.615
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

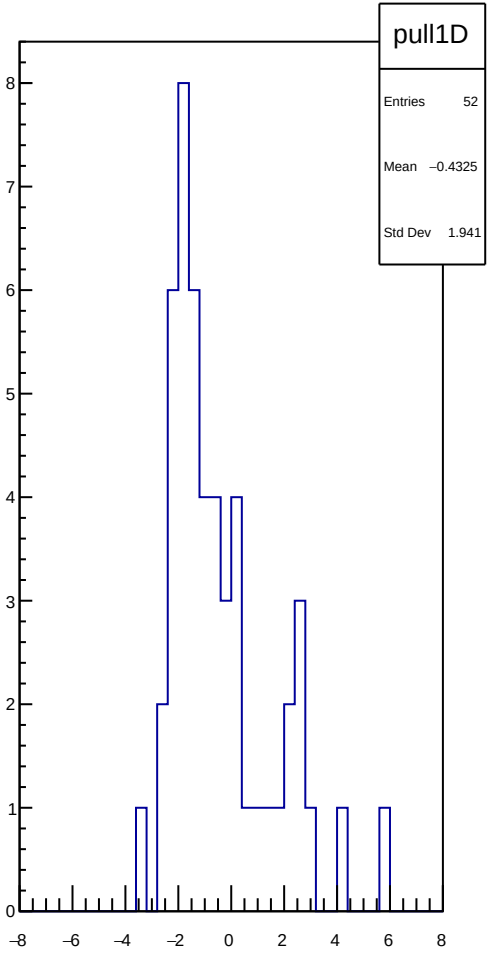

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 123.4 / 50
p0 −8.982 ± 0.4761
10
5
0
−5
−10
−15
−20

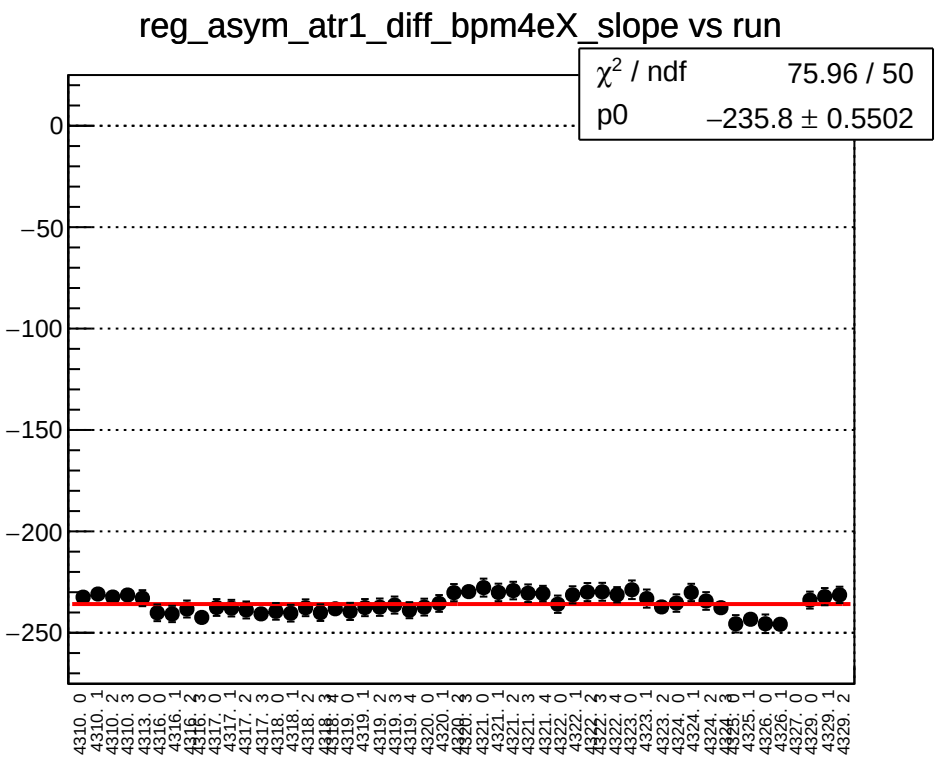

pull1D
Entries 52
Mean −0.1318
Std Dev 1.55
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

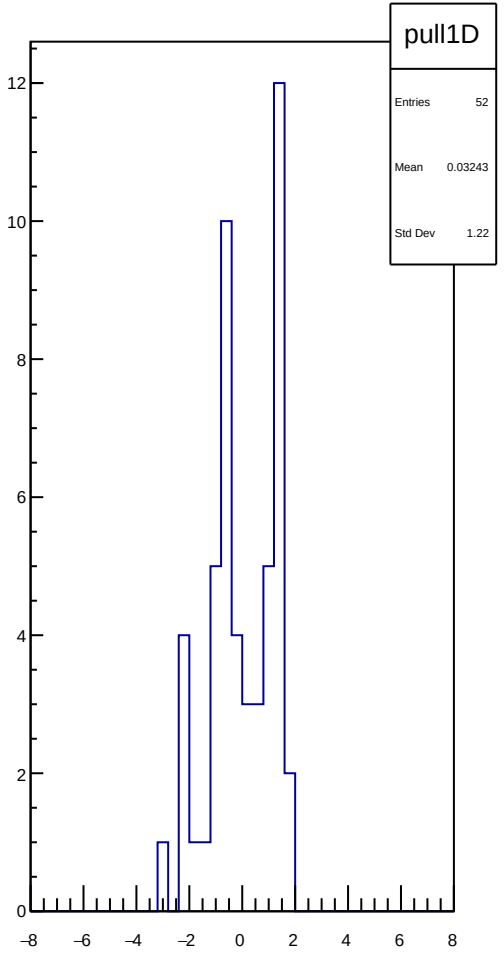

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 55.69 / 50
p0 −31.12 ± 3.182
40
20
0
−20
−40
−60
−80
−100
−120
−140

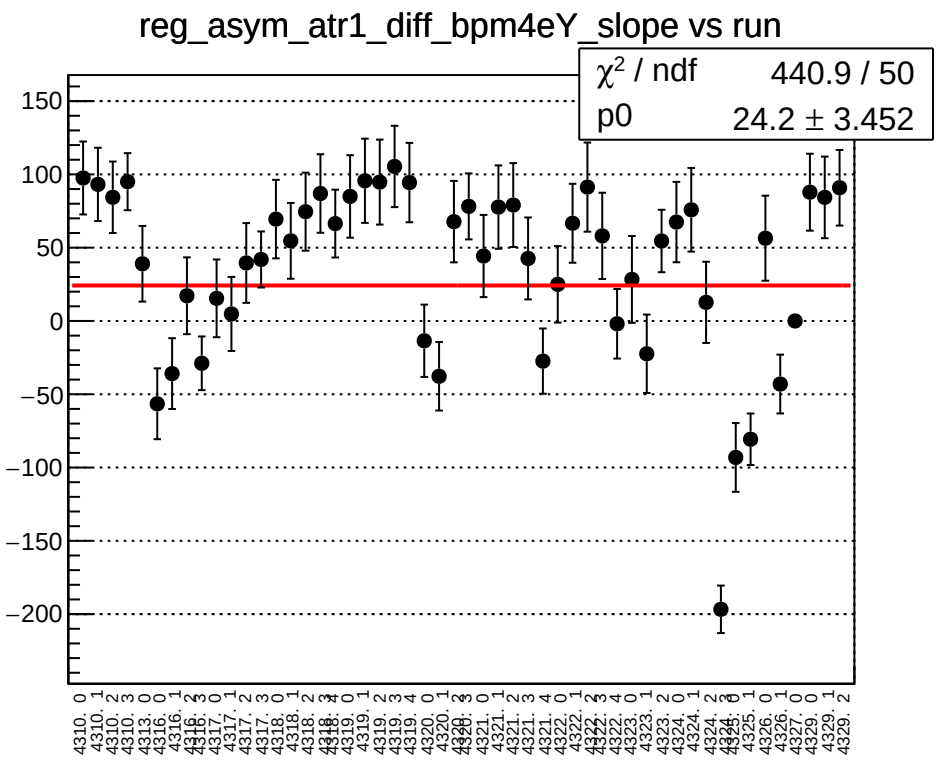

pull1D
Entries 52
Mean 0.01094
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

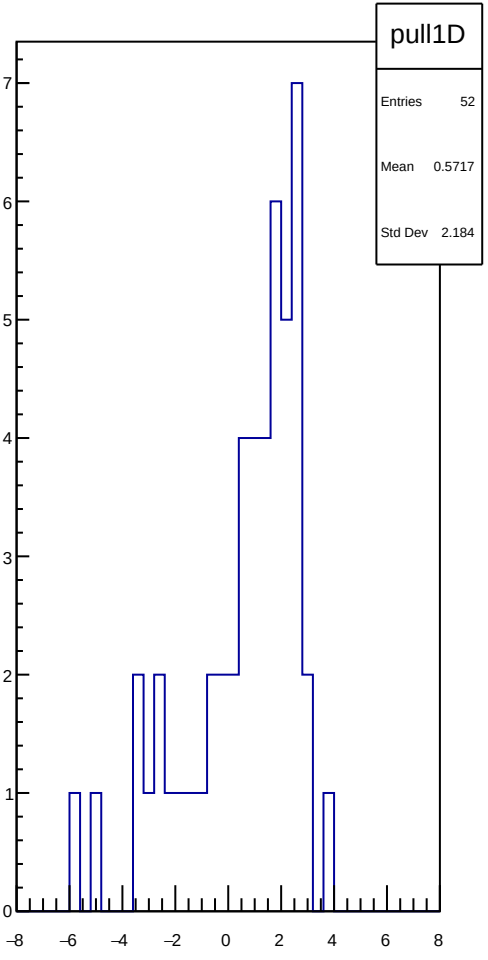

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 339.2 / 50
p0 −39.73 ± 3.243
200
150
100
50
0
−50
−100
−150
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

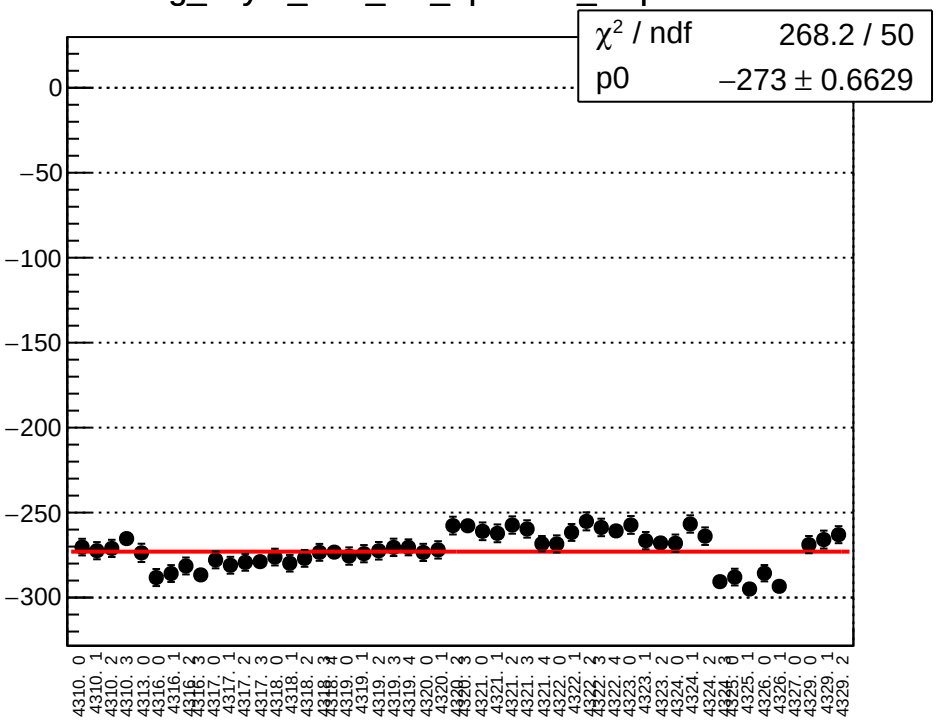

pull1D
Entries 52
Mean −0.4325
Std Dev 1.941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

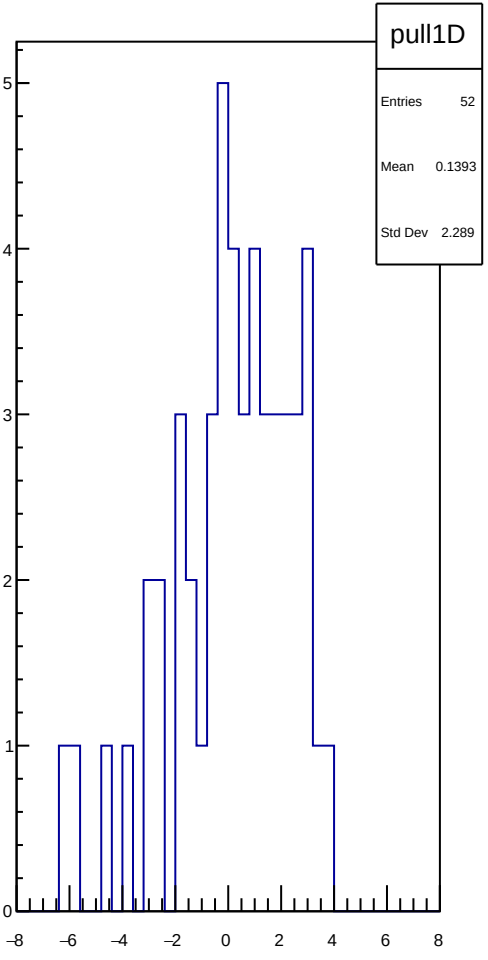

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 75.96 / 50
p0 −235.8 ± 0.5502
0
−50
−100
−150
−200
−250

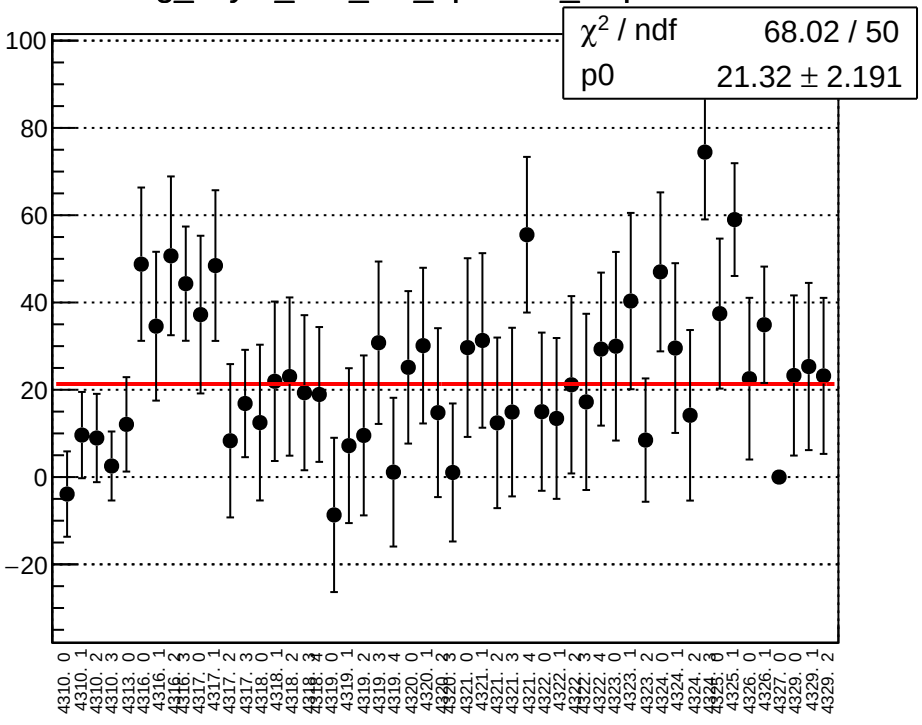

pull1D
Entries 52
Mean 0.03243
Std Dev 1.22
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

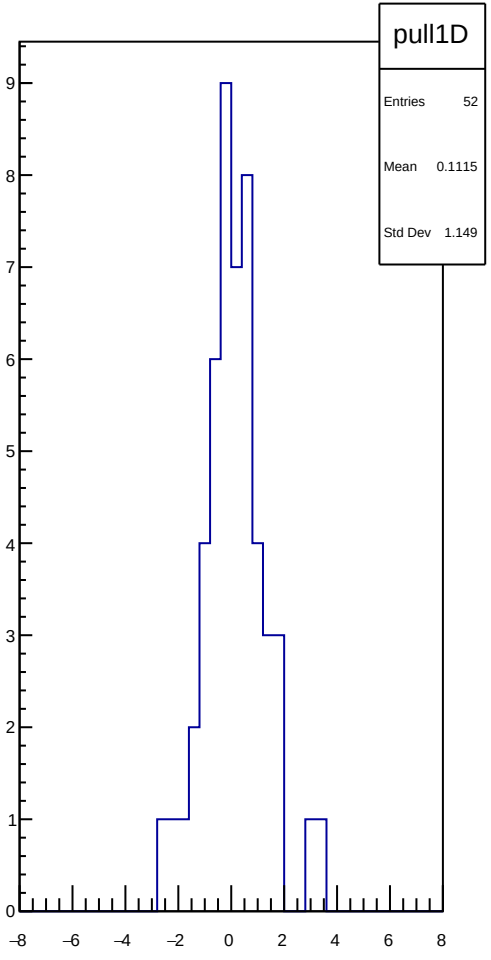

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 440.9 / 50
p0 24.2 ± 3.452
150
100
50
0
−50
−100
−150
−200
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

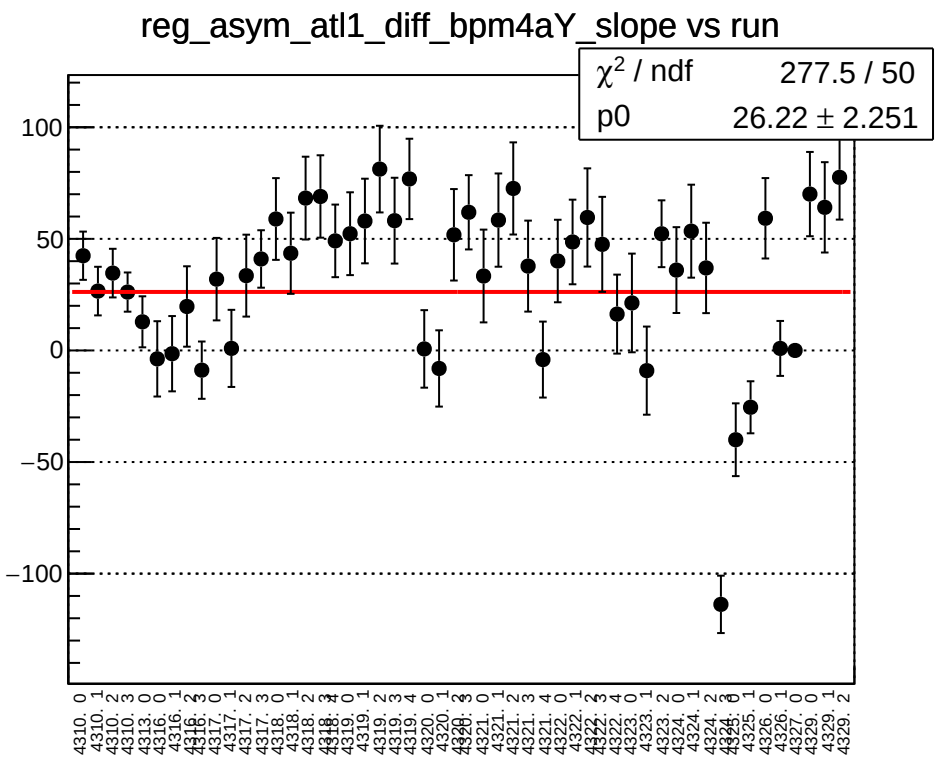

pull1D
Entries 52
Mean 0.5717
Std Dev 2.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

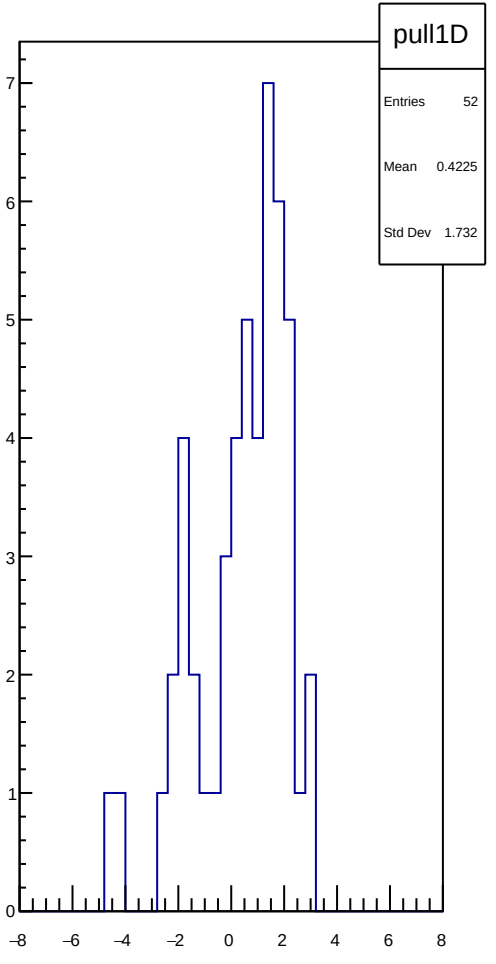

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 268.2 / 50
p0 −273 ± 0.6629
0
−50
−100
−150
−200
−250
−300

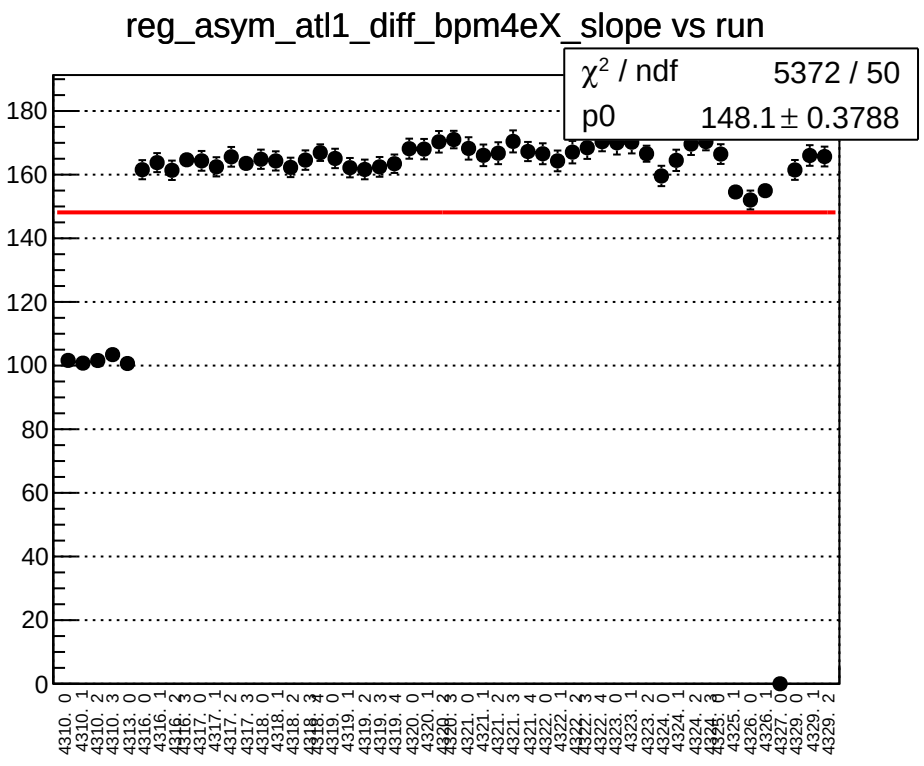

pull1D
Entries 52
Mean 0.1393
Std Dev 2.289
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

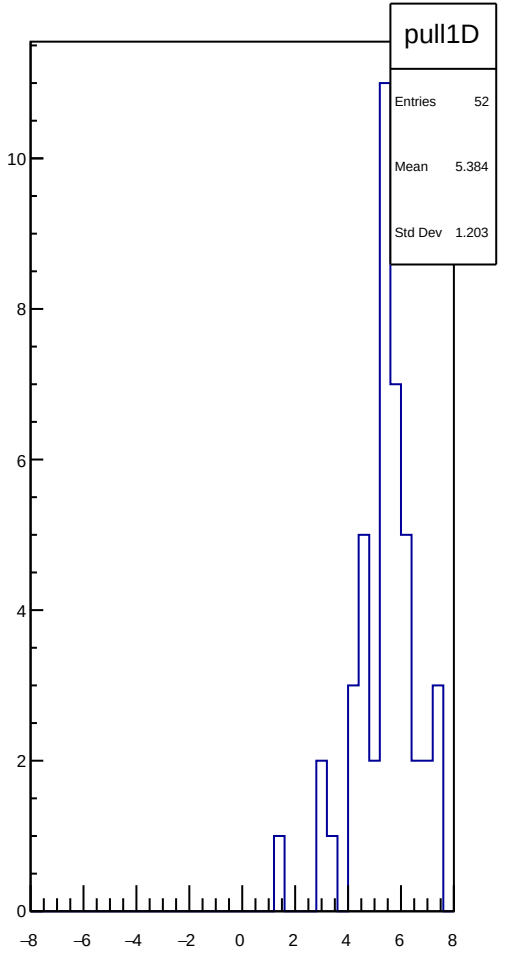

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 68.02 / 50
p0 21.32 ± 2.191
100
80
60
40
20
0
−20

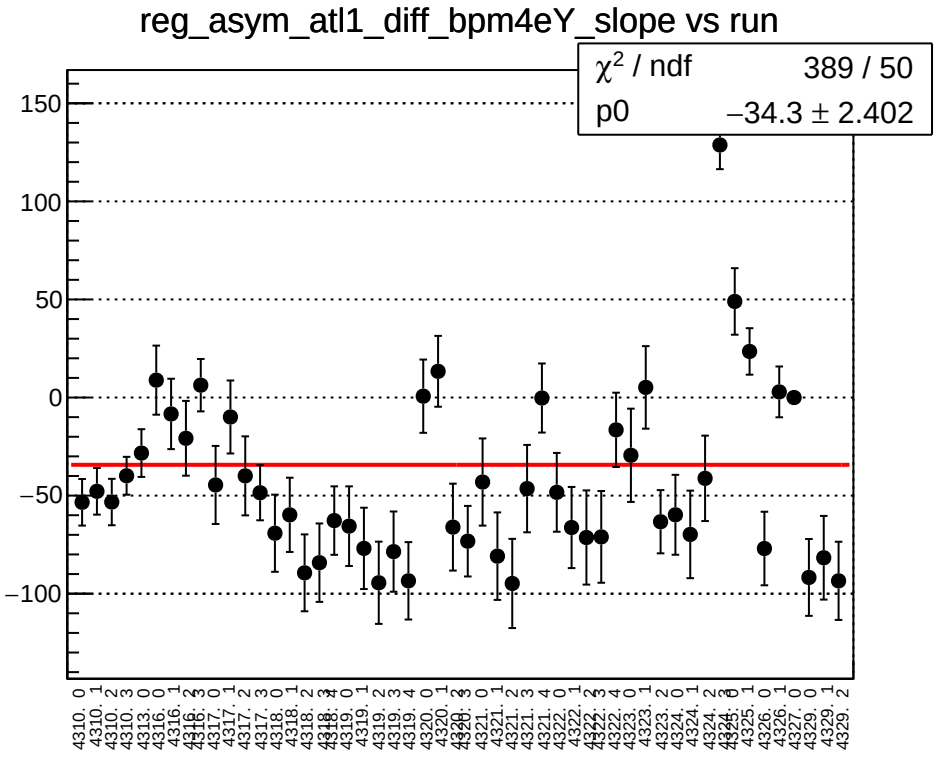

pull1D
Entries 52
Mean 0.1115
Std Dev 1.149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 277.5 / 50
p0 26.22 ± 2.251
100
50
0
−50
−100


pull1D
Entries 52
Mean 0.4225
Std Dev 1.732
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 5372 / 50
p0 148.1 ± 0.3788
180
160
140
120
100
80
60
40
20
0


pull1D
Entries 52
Mean 5.384
Std Dev 1.203
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 389 / 50
p0 −34.3 ± 2.402
150
100
50
0
−50
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
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4324. 0
4324. 1
4324. 2
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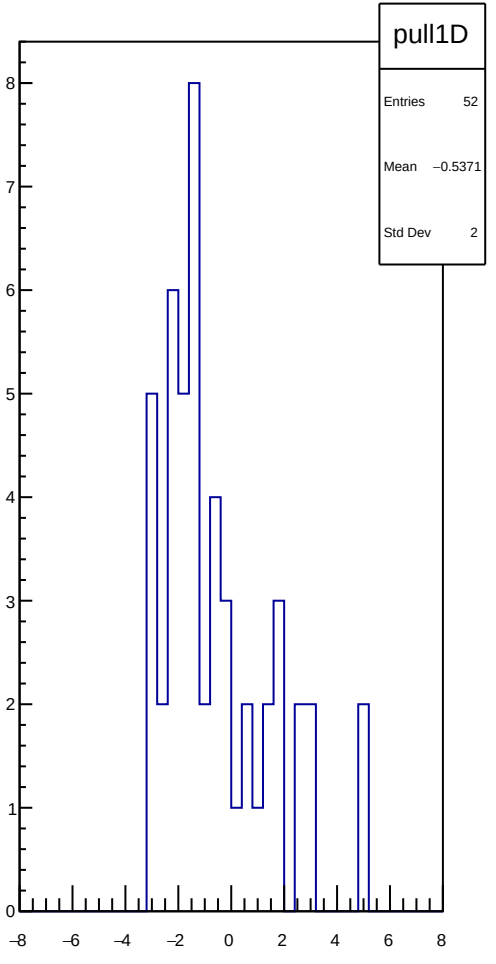
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.5371
Std Dev 2
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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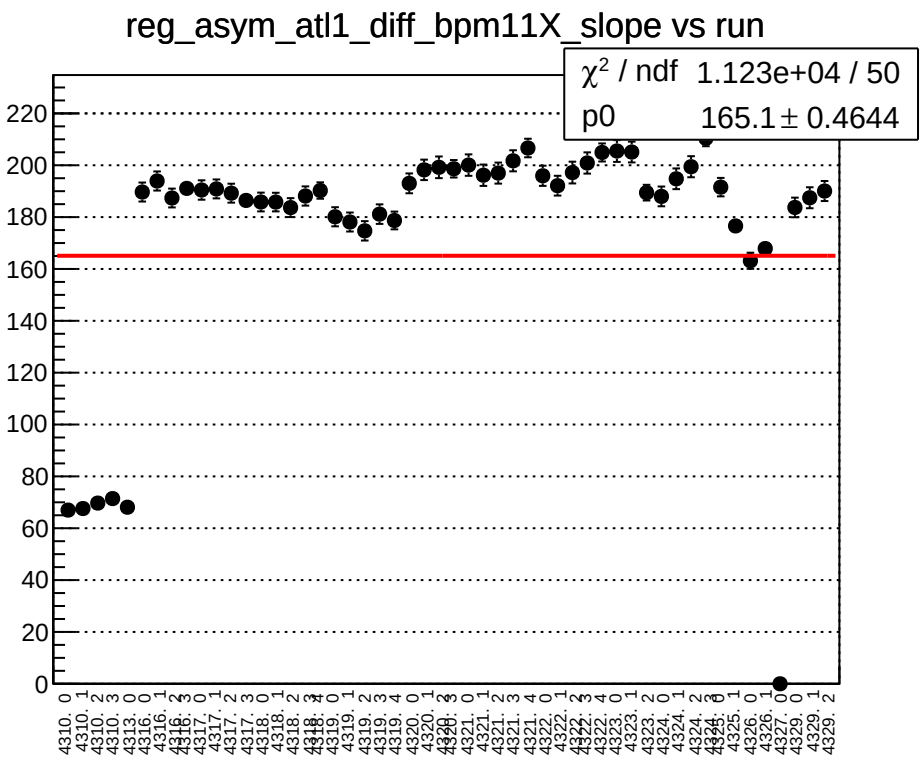
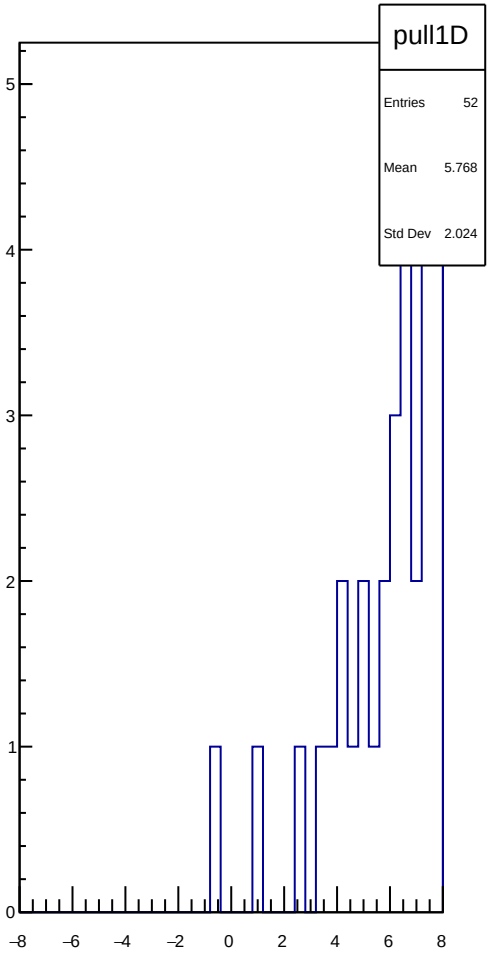
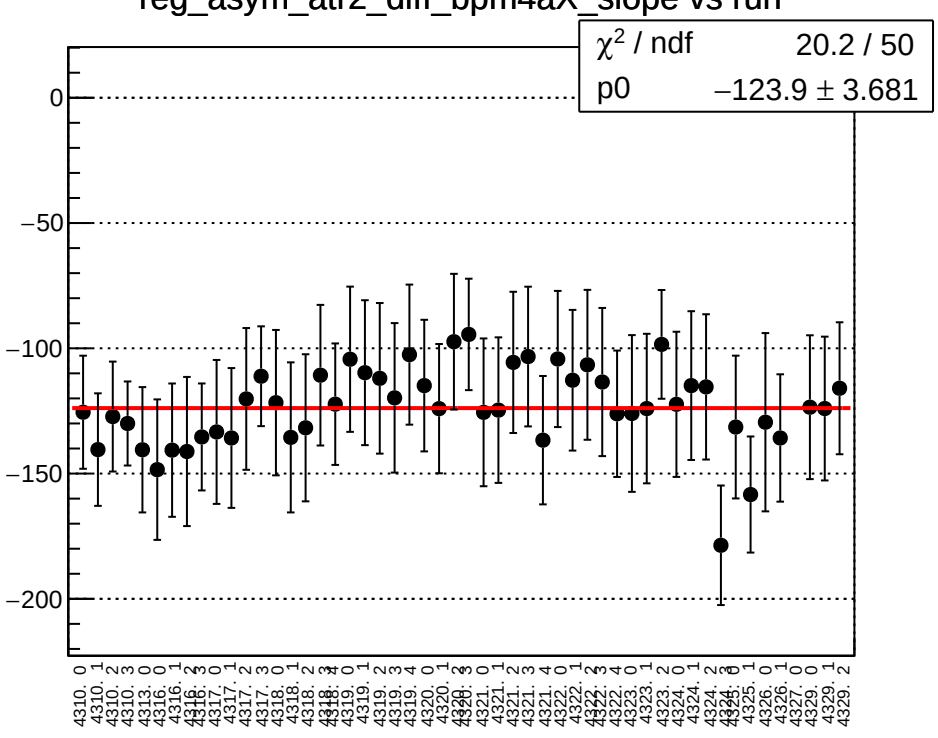
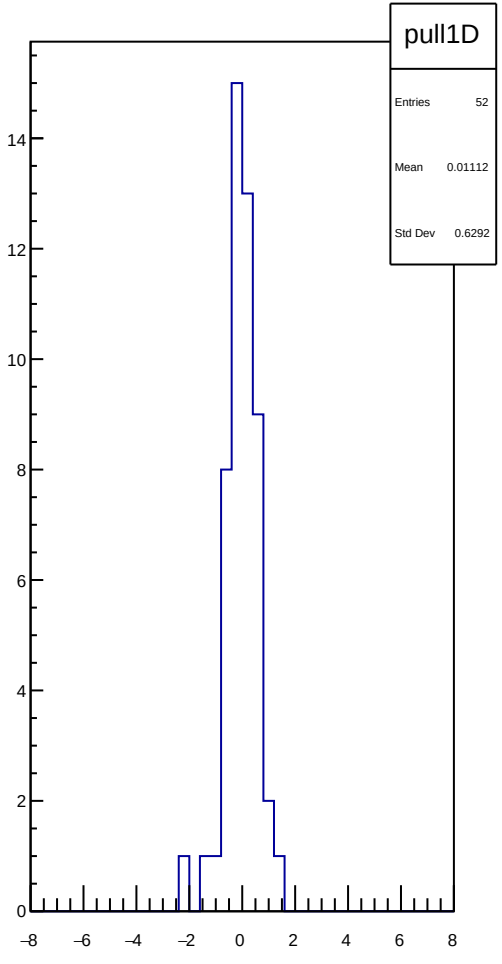
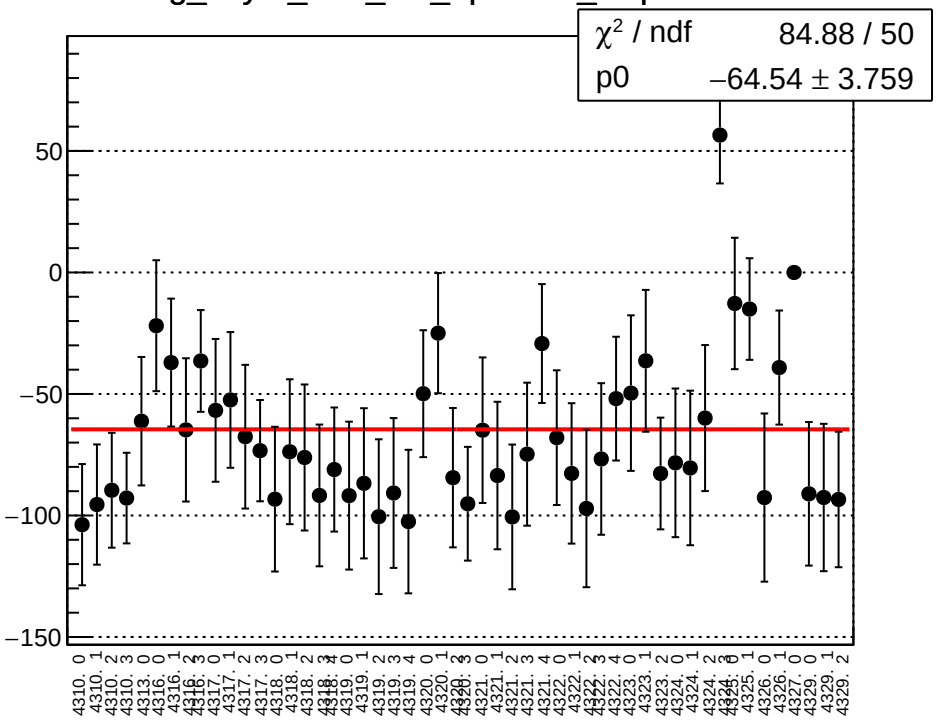
2
4
6
8

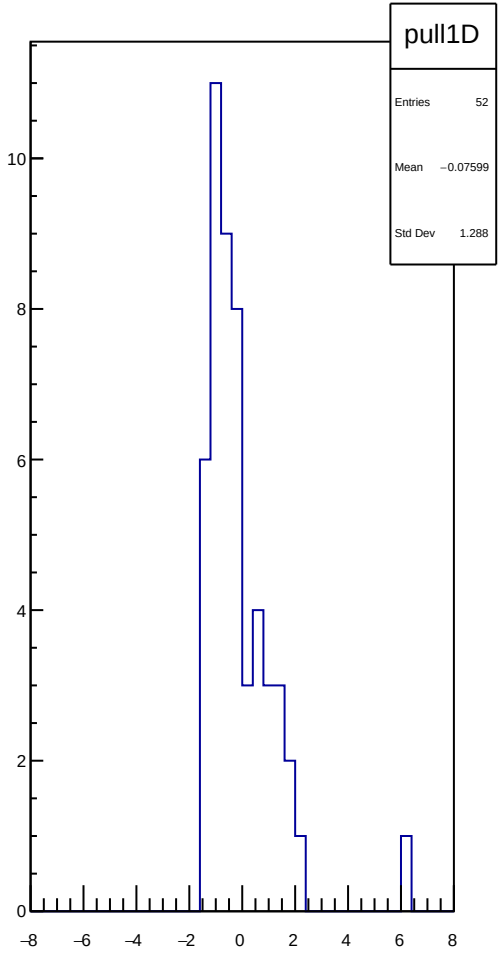

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 1.123e+04 / 50
p0 165.1 ± 0.4644

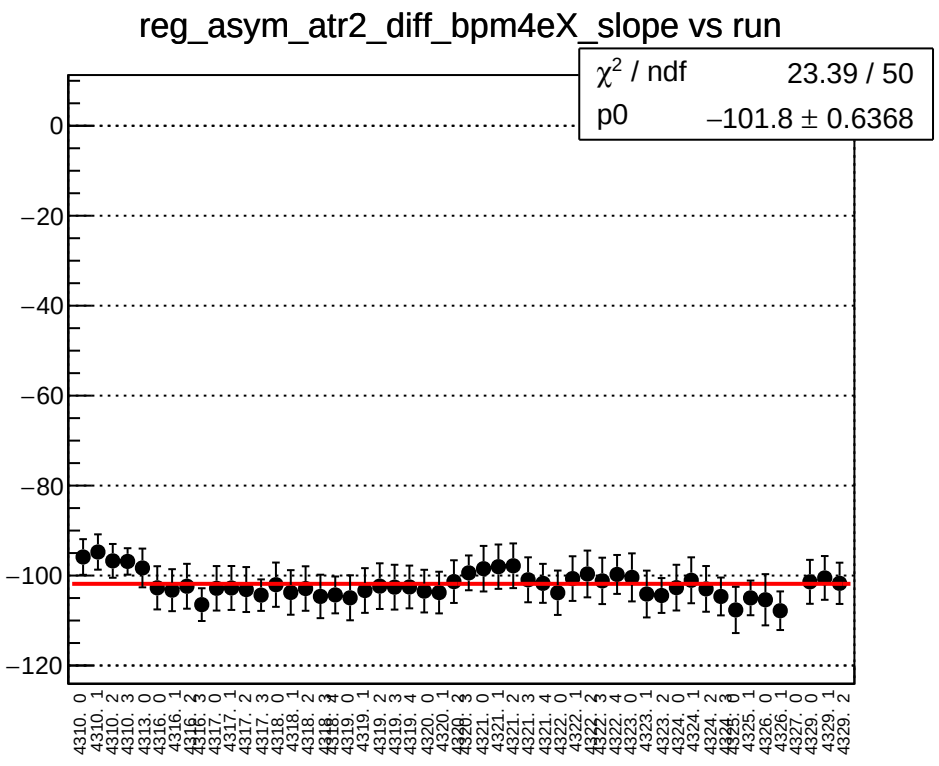

pull1D
Entries 52
Mean 5.768
Std Dev 2.024

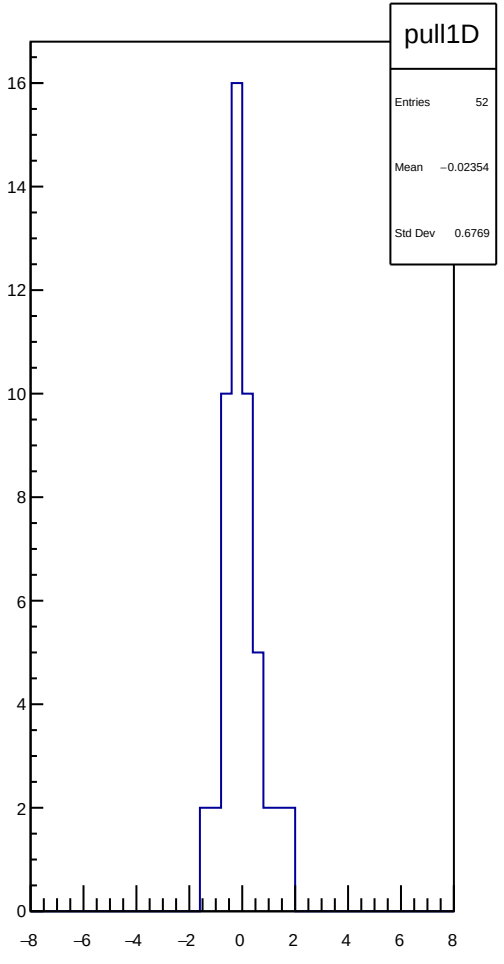

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 20.2 / 50
p0 −123.9 ± 3.681
0
−50
−100
−150
−200


pull1D
Entries 52
Mean 0.01112
Std Dev 0.6292
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 84.88 / 50
p0 −64.54 ± 3.759
50
0
−50
−100
−150


pull1D
Entries 52
Mean −0.07599
Std Dev 1.288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 23.39 / 50
p0 −101.8 ± 0.6368
0
−20
−40
−60
−80
−100
−120


pull1D
Entries 52
Mean −0.02354
Std Dev 0.6769
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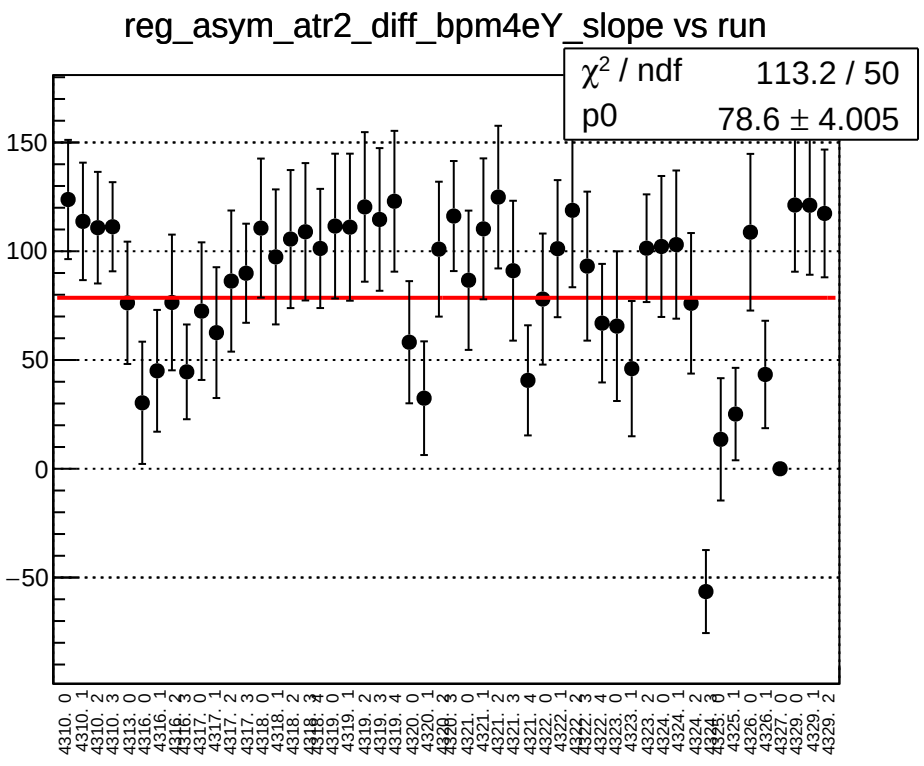
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 113.2 / 50
p0 78.6 ± 4.005
150
100
50
0
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
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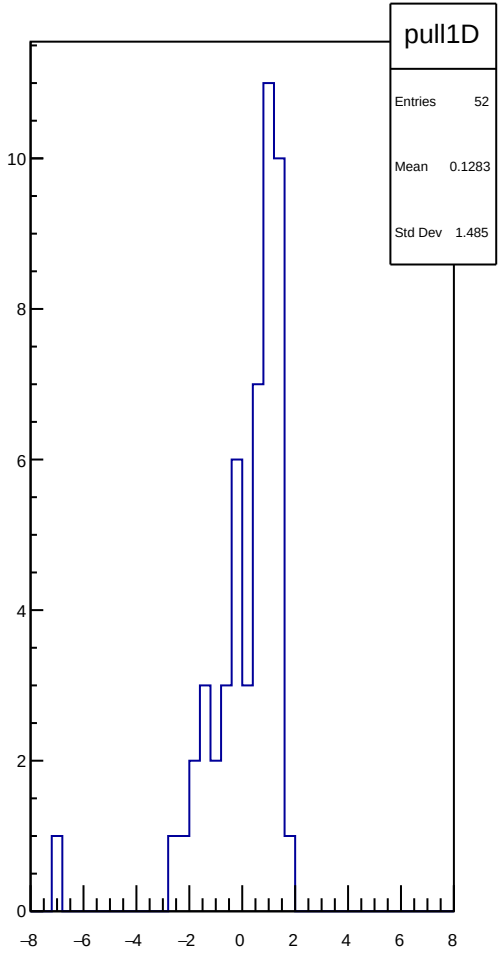
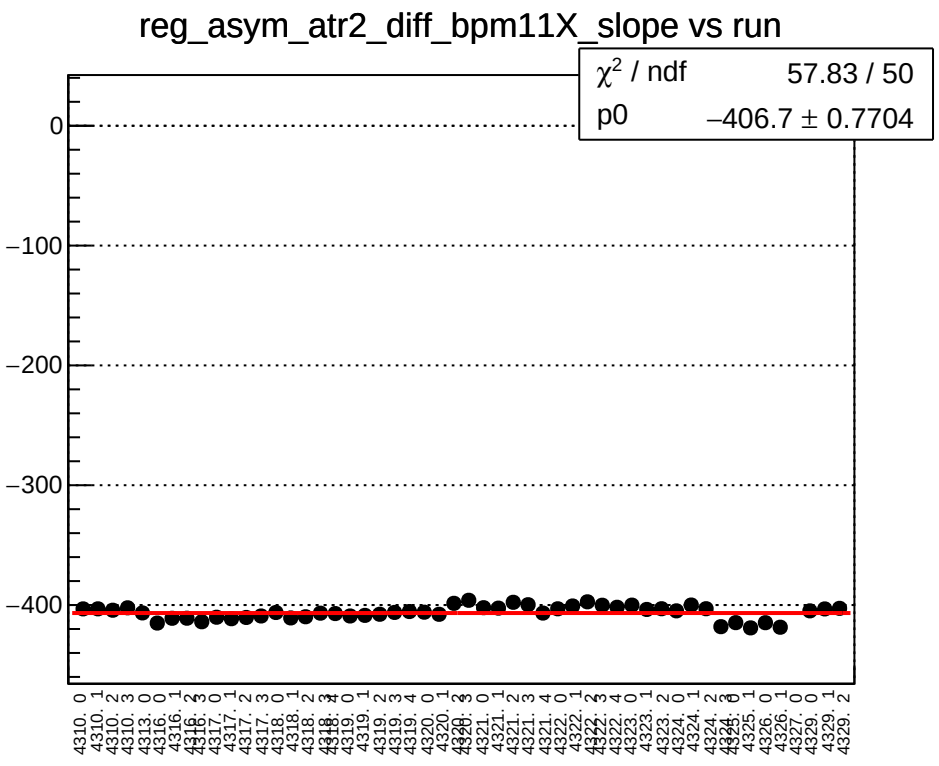
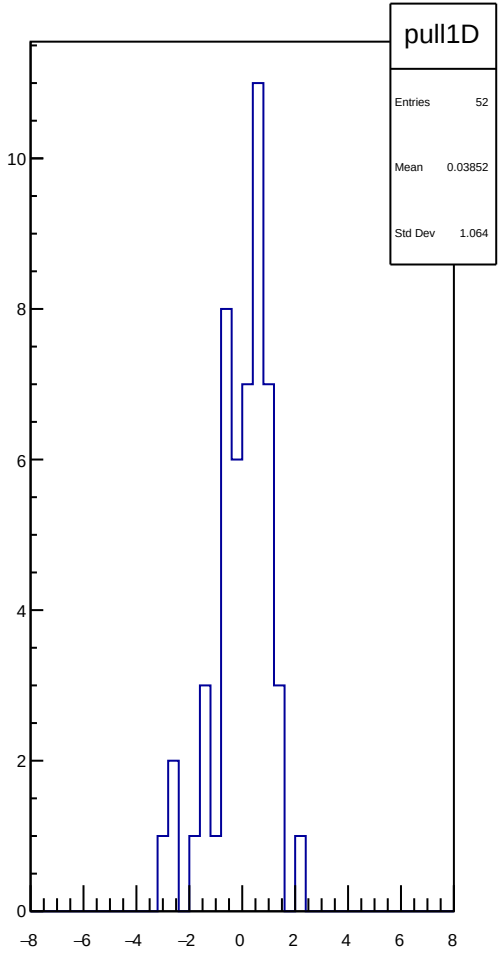
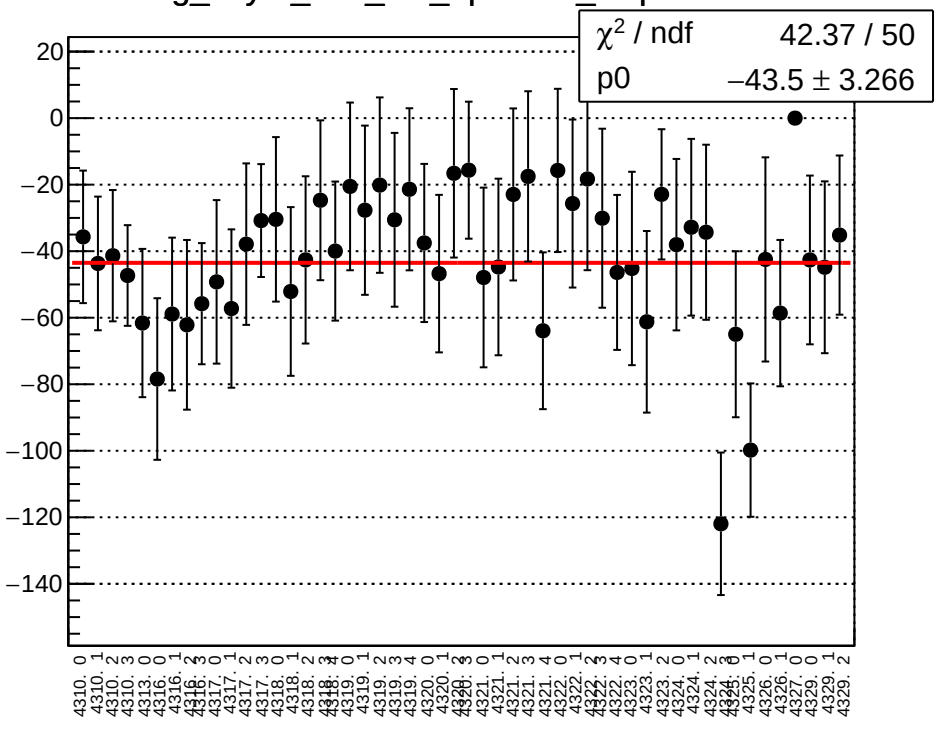
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.1283
Std Dev 1.485
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 57.83 / 50
p0 −406.7 ± 0.7704
0
−100
−200
−300
−400


pull1D
Entries 52
Mean 0.03852
Std Dev 1.064
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 42.37 / 50
p0 −43.5 ± 3.266
20
0
−20
−40
−60
−80
−100
−120
−140
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
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4324. 2
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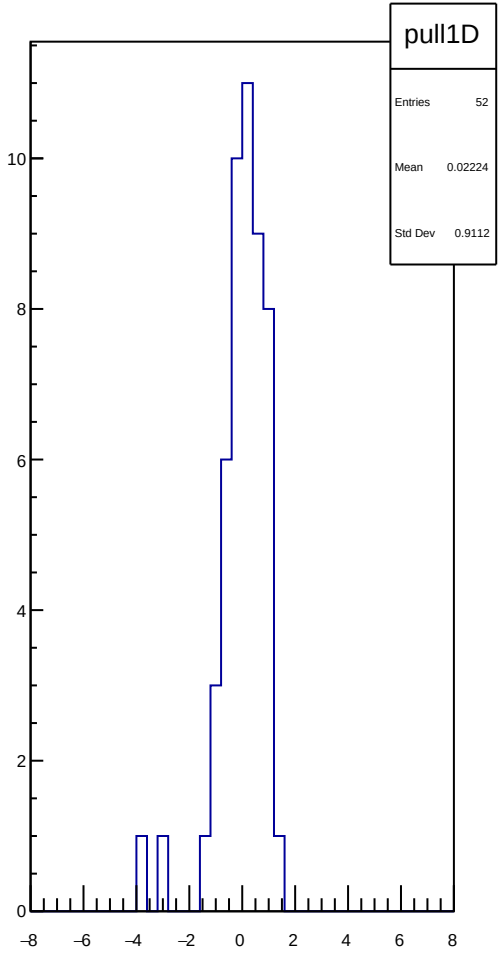
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.02224
Std Dev 0.9112
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2
0
−8
−6
−4
−2
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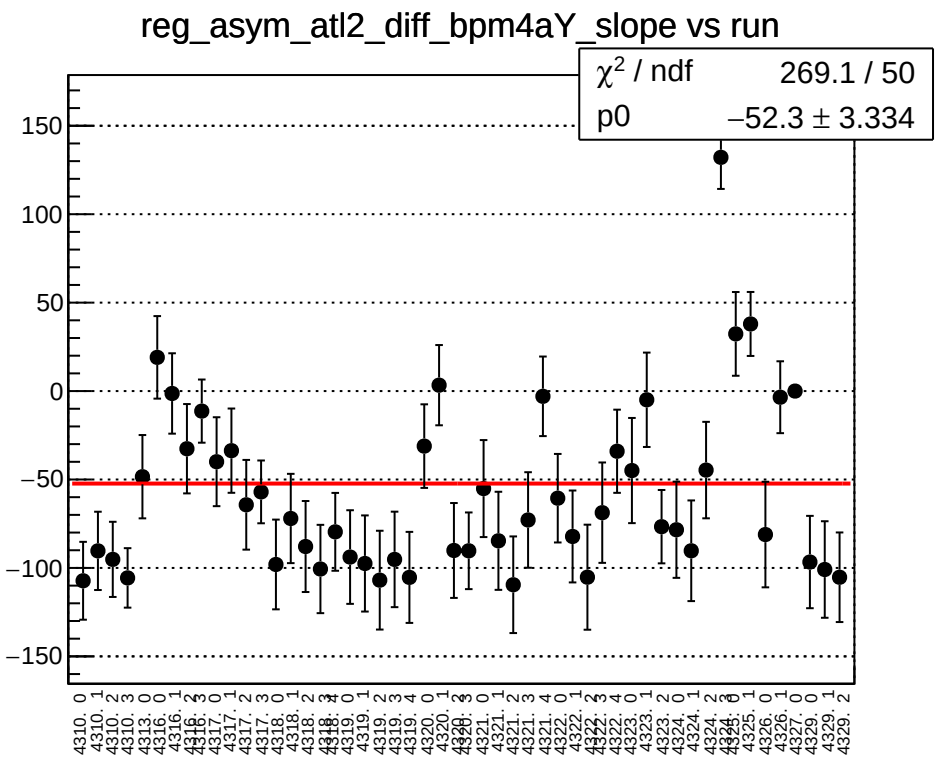
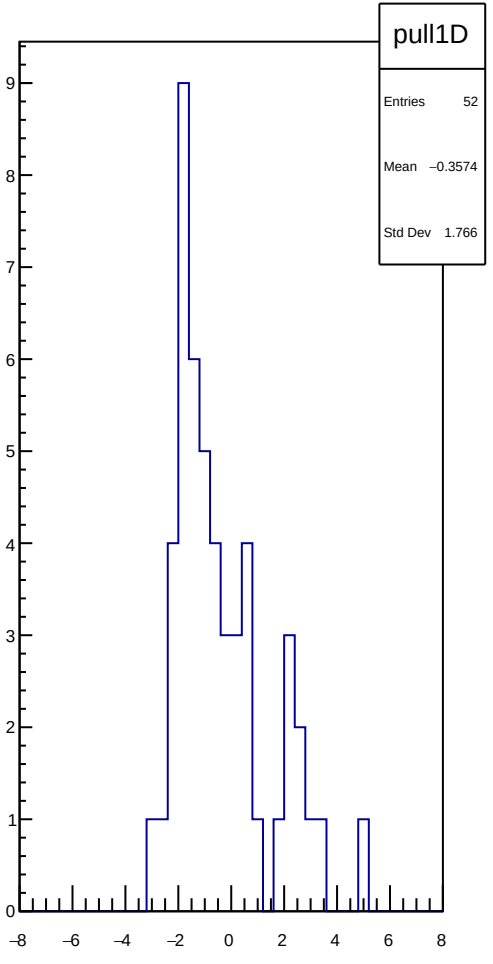
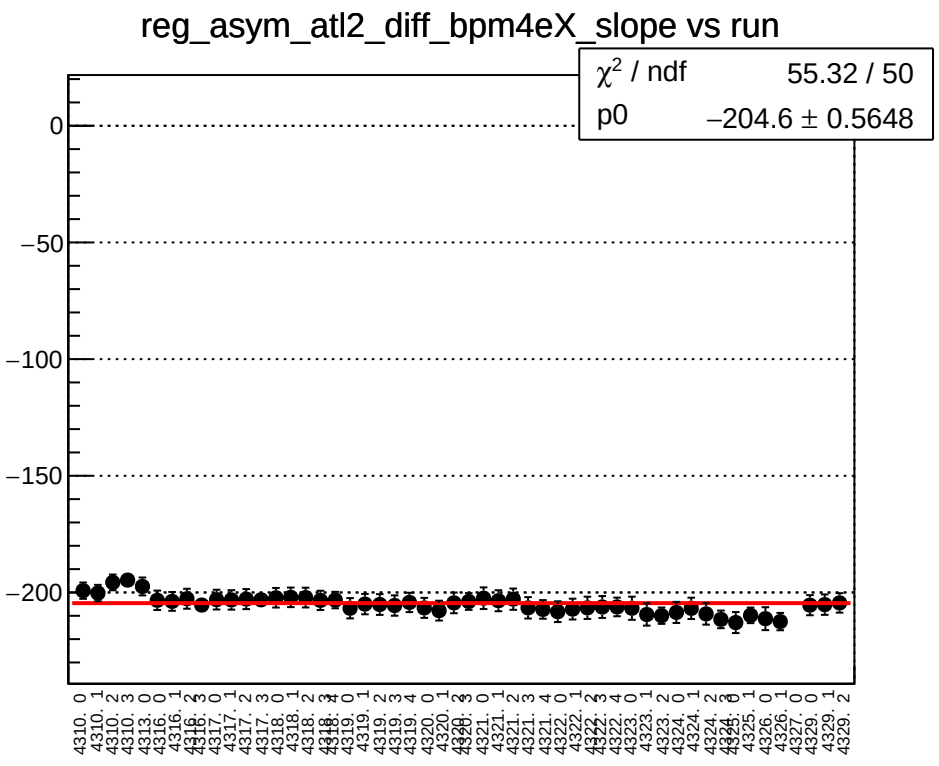
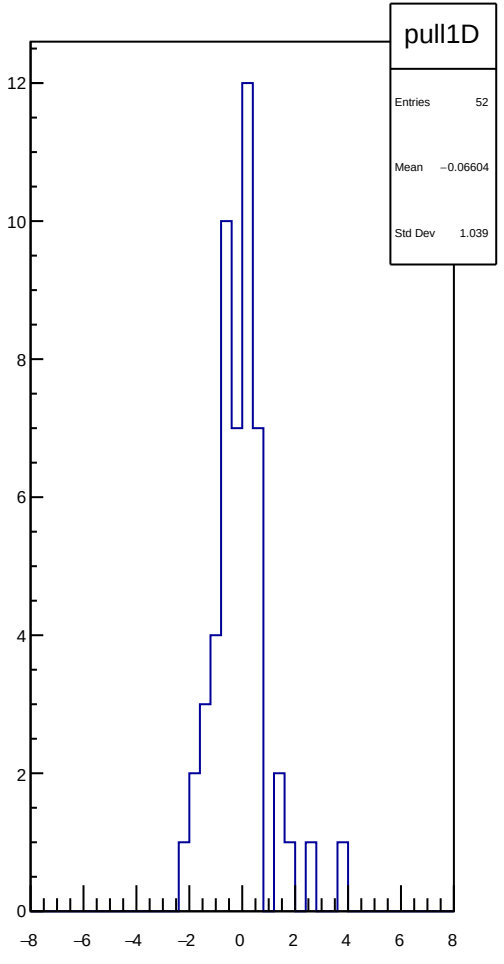
2
4
6
8


reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 269.1 / 50
p0 −52.3 ± 3.334
150
100
50
0
−50
−100
−150


pull1D
Entries 52
Mean −0.3574
Std Dev 1.766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 55.32 / 50
p0 −204.6 ± 0.5648
0
−50
−100
−150
−200


pull1D
Entries 52
Mean −0.06604
Std Dev 1.039
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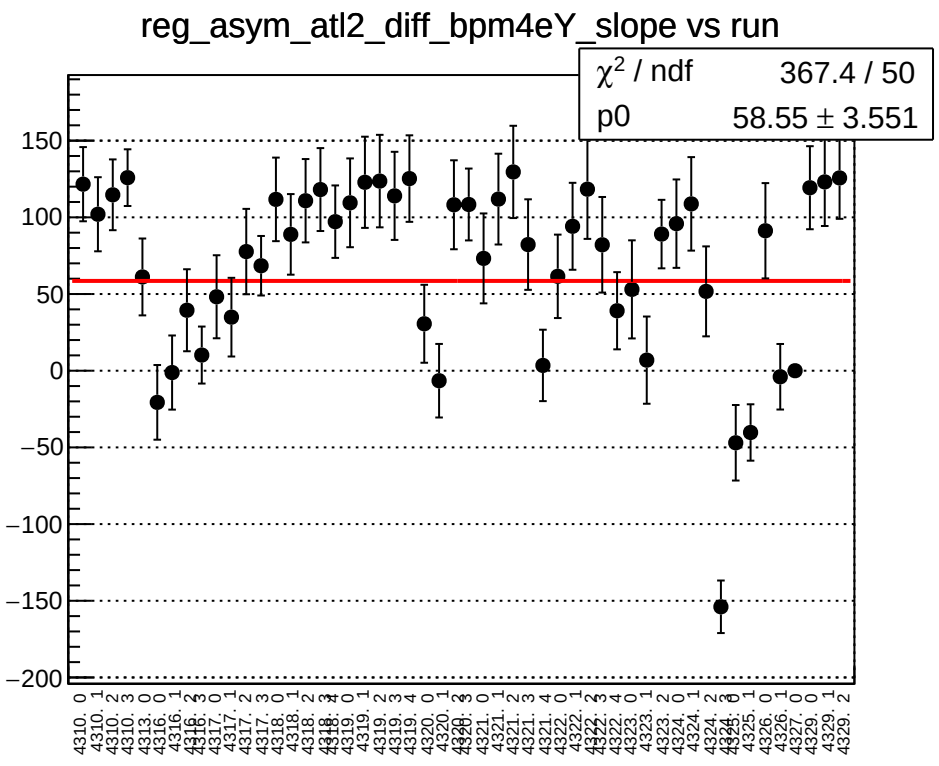
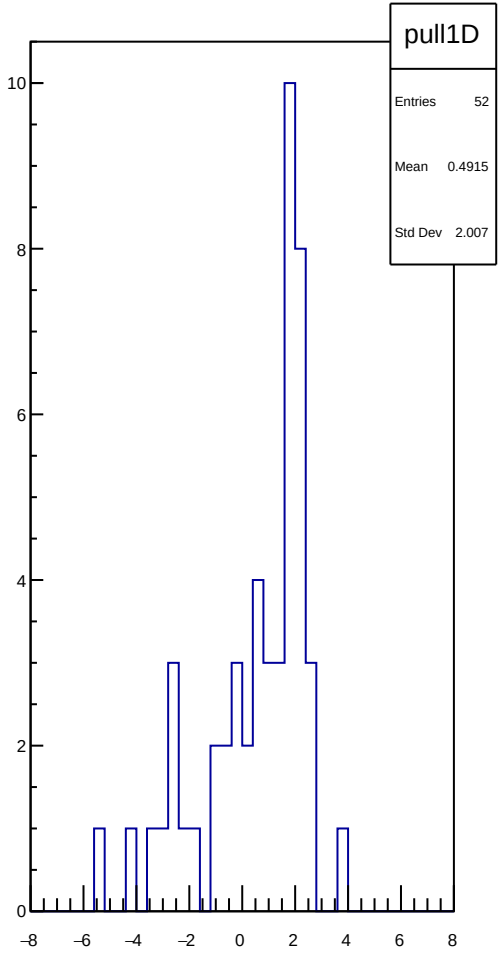
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 367.4 / 50
p0 58.55 ± 3.551
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 52
Mean 0.4915
Std Dev 2.007
10
8
6
4
2
0
−8
−6
−4
−2
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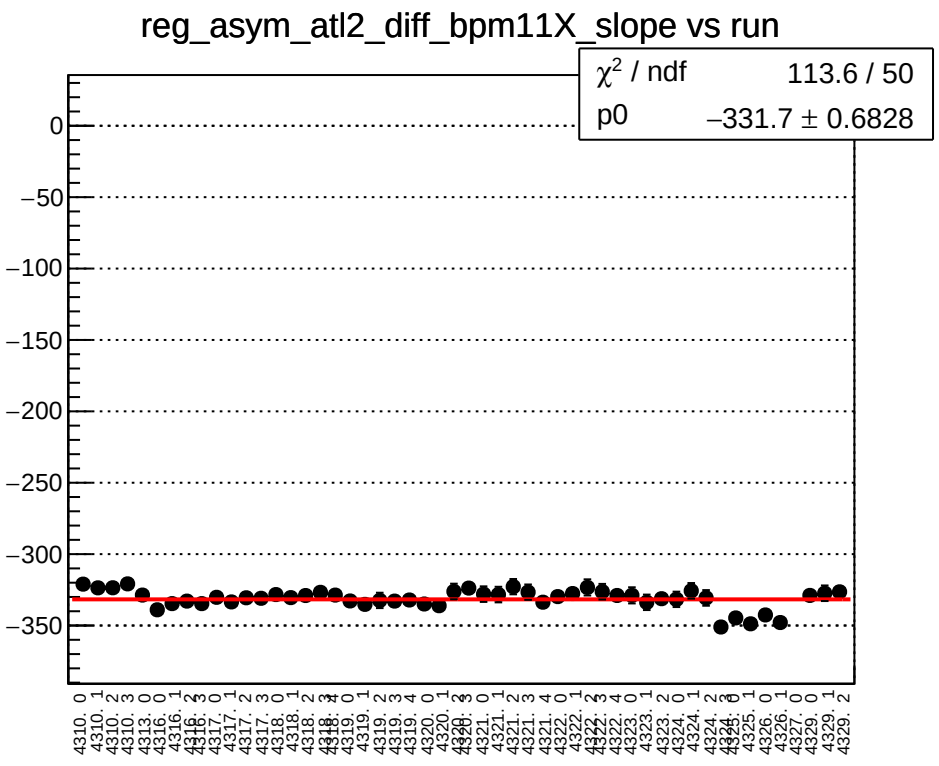
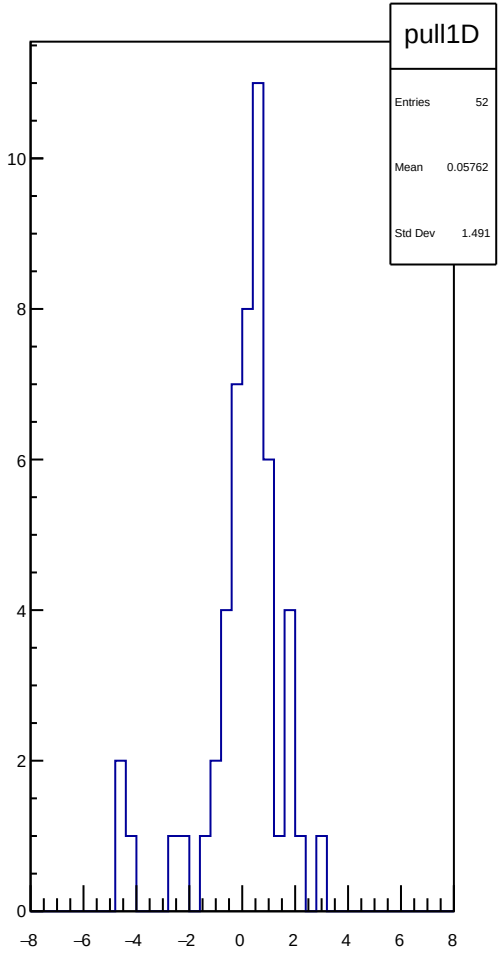
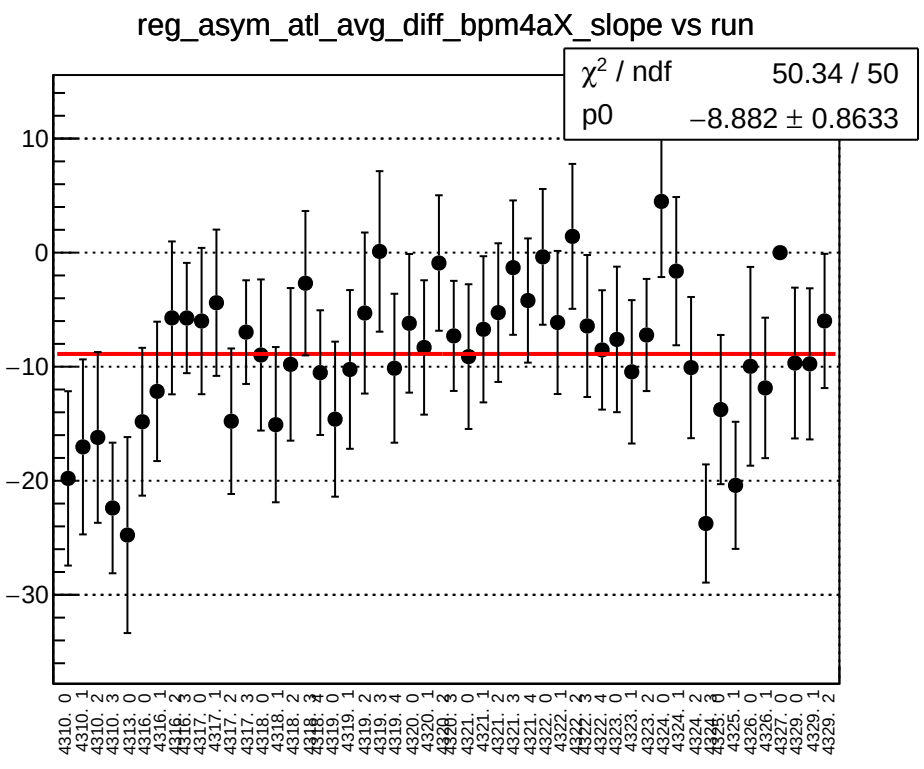
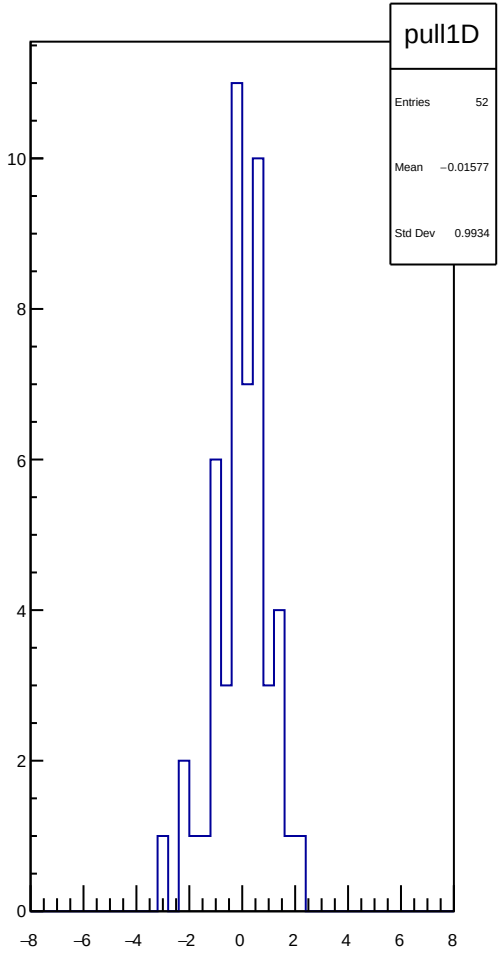
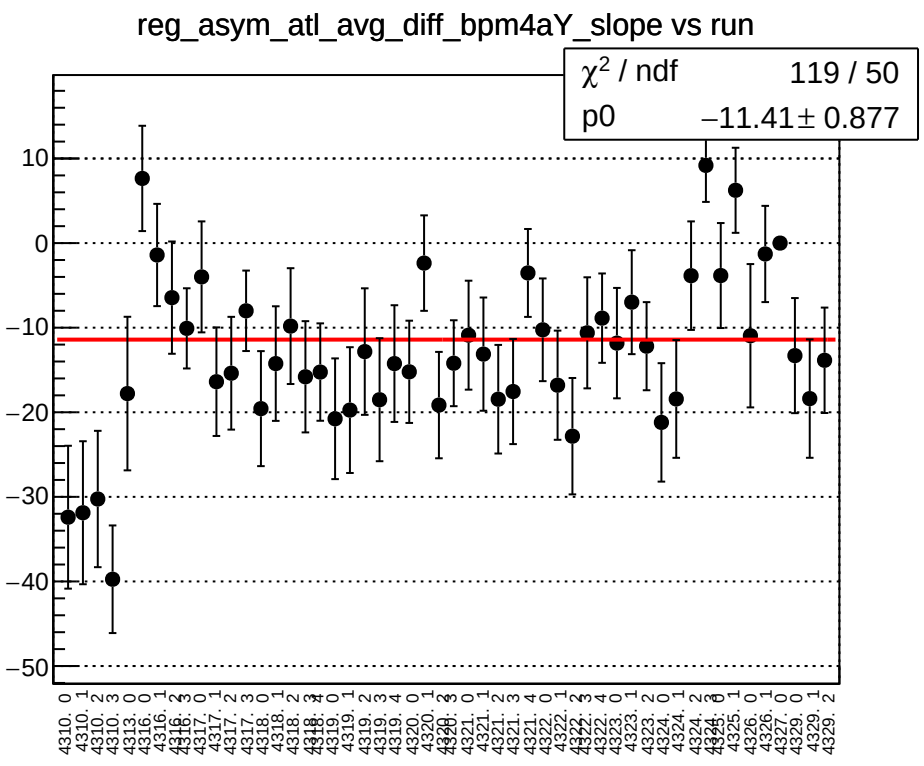
2
4
6
8

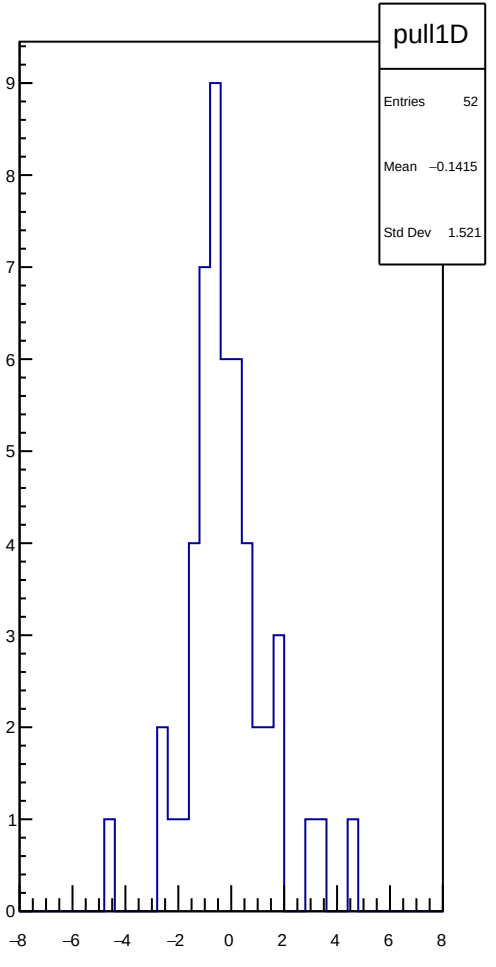

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 113.6 / 50
p0 −331.7 ± 0.6828
0
−50
−100
−150
−200
−250
−300
−350

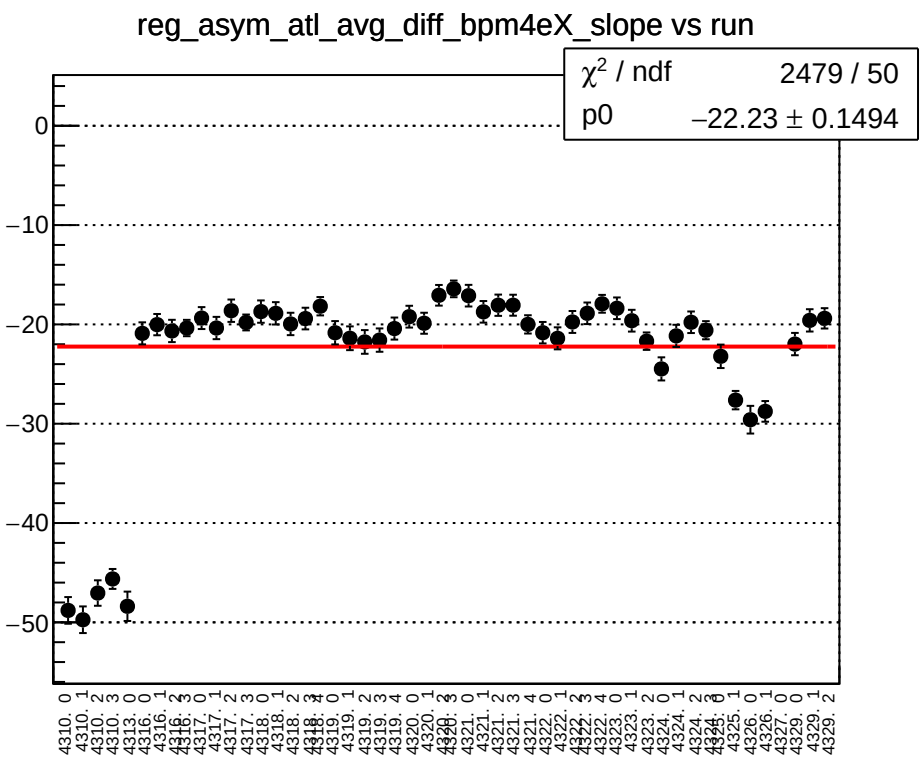

pull1D
Entries 52
Mean 0.05762
Std Dev 1.491
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

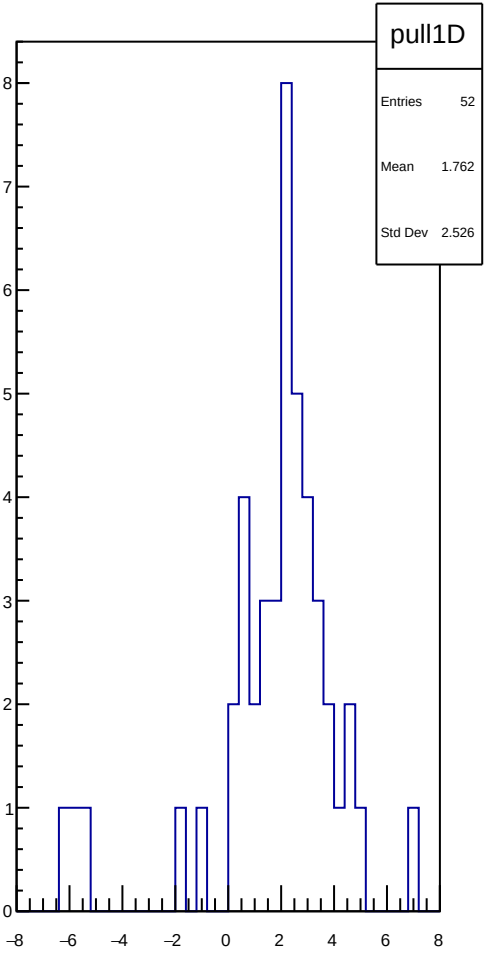

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.34 / 50
p0 −8.882 ± 0.8633
10
0
−10
−20
−30


pull1D
Entries 52
Mean −0.01577
Std Dev 0.9934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 119 / 50
p0 −11.41 ± 0.877
10
0
−10
−20
−30
−40
−50


pull1D
Entries 52
Mean −0.1415
Std Dev 1.521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 2479 / 50
p0 −22.23 ± 0.1494
0
−10
−20
−30
−40
−50


pull1D
Entries 52
Mean 1.762
Std Dev 2.526
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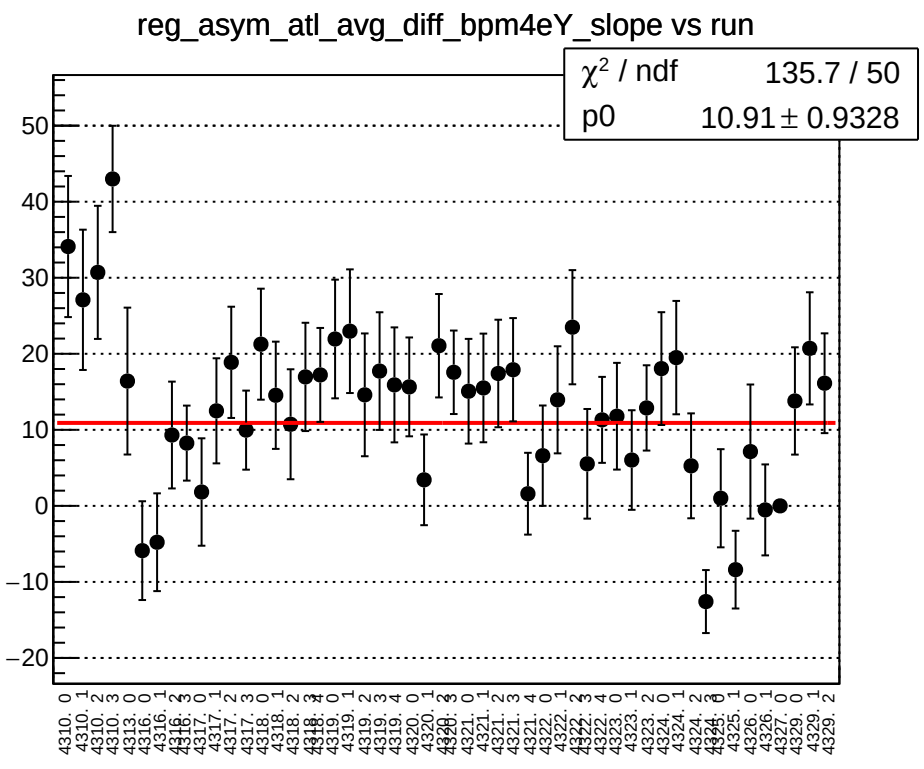
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 135.7 / 50
p0 10.91 ± 0.9328
50
40
30
20
10
0
−10
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
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4326. 1
4327. 0
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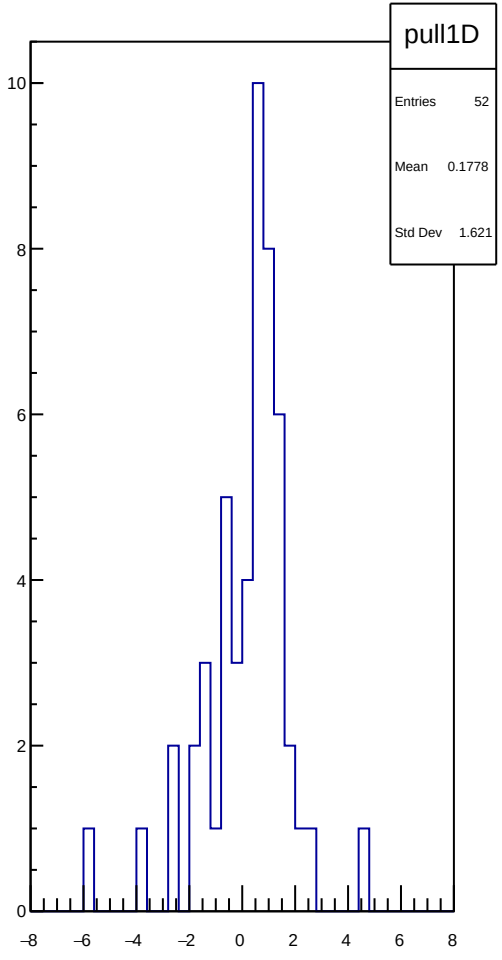
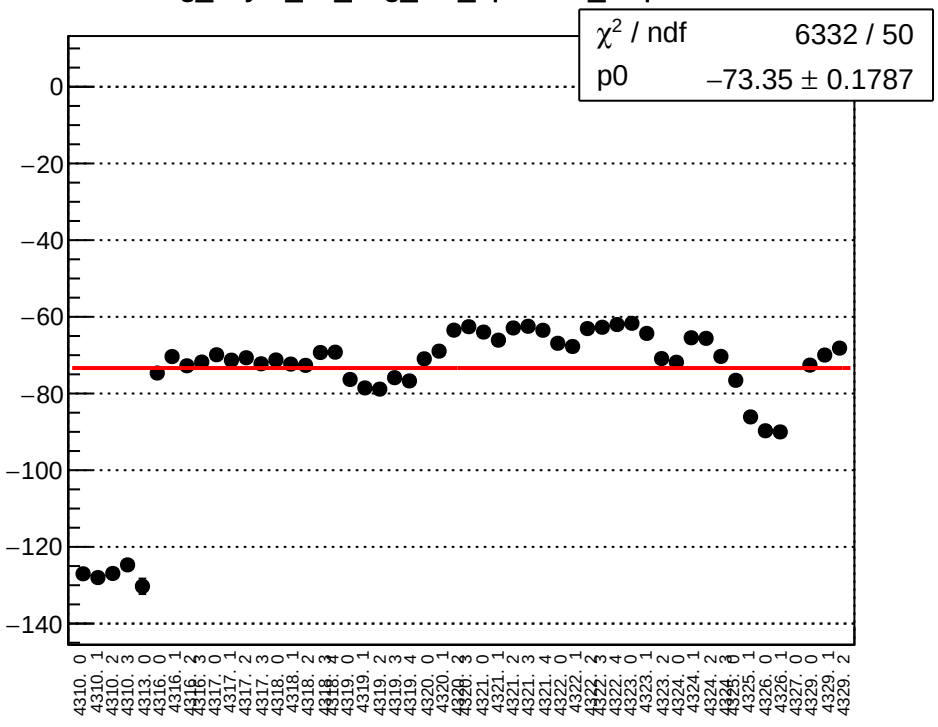
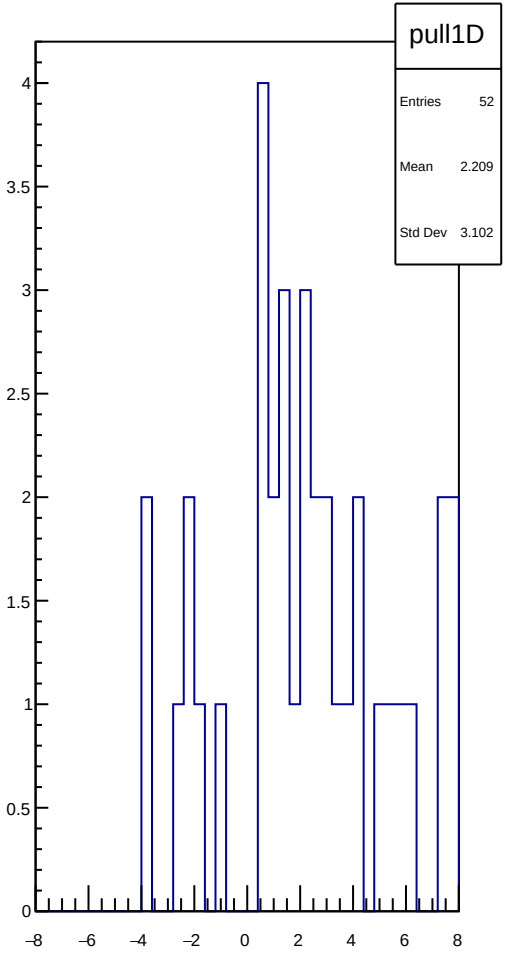
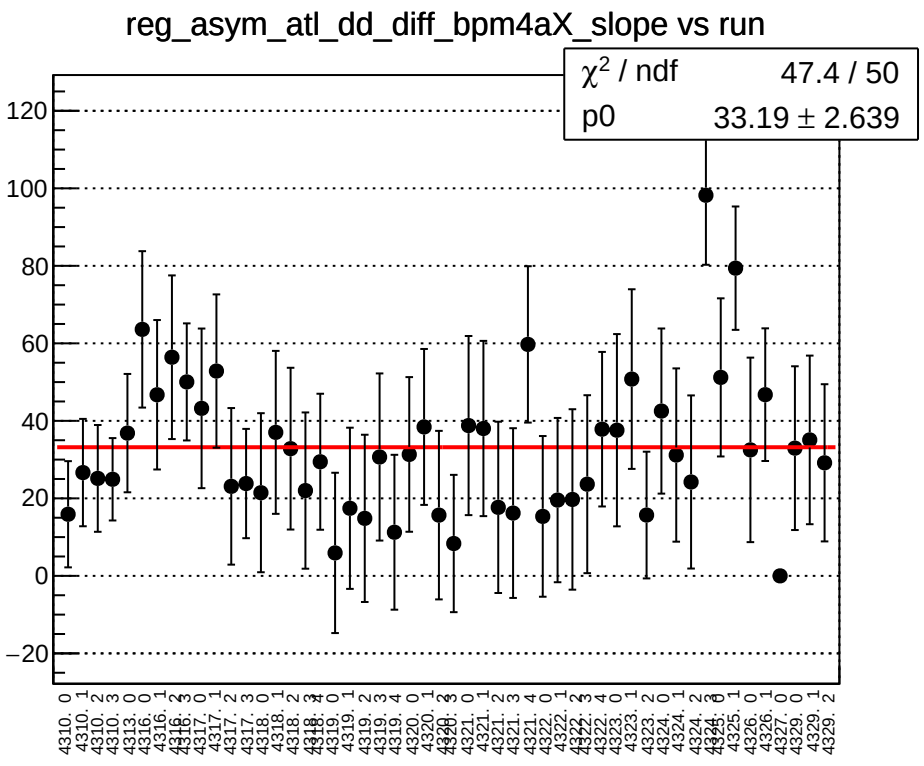
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.1778
Std Dev 1.621
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 6332 / 50
p0 −73.35 ± 0.1787
0
−20
−40
−60
−80
−100
−120
−140


pull1D
Entries 52
Mean 2.209
Std Dev 3.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.4 / 50
p0 33.19 ± 2.639
120
100
80
60
40
20
0
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
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4324. 2
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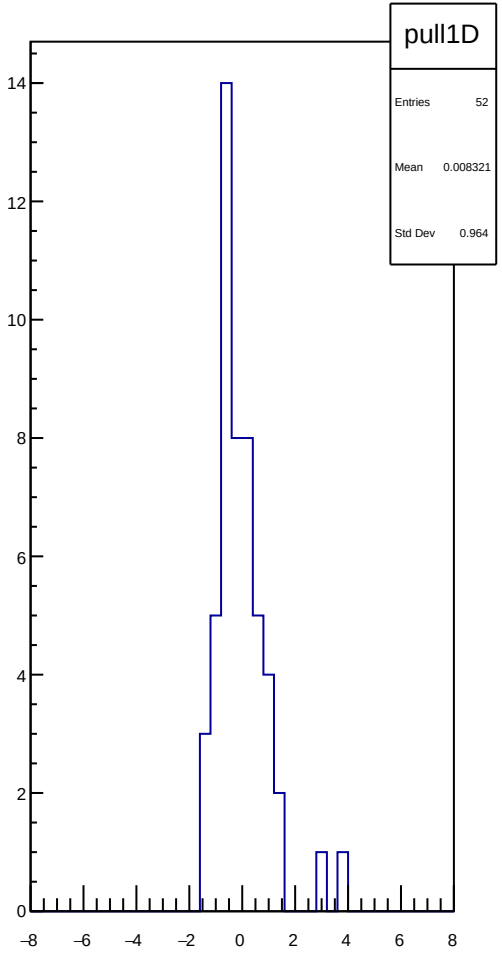
4329. 2


pull1D
Entries 52
Mean 0.008321
Std Dev 0.964
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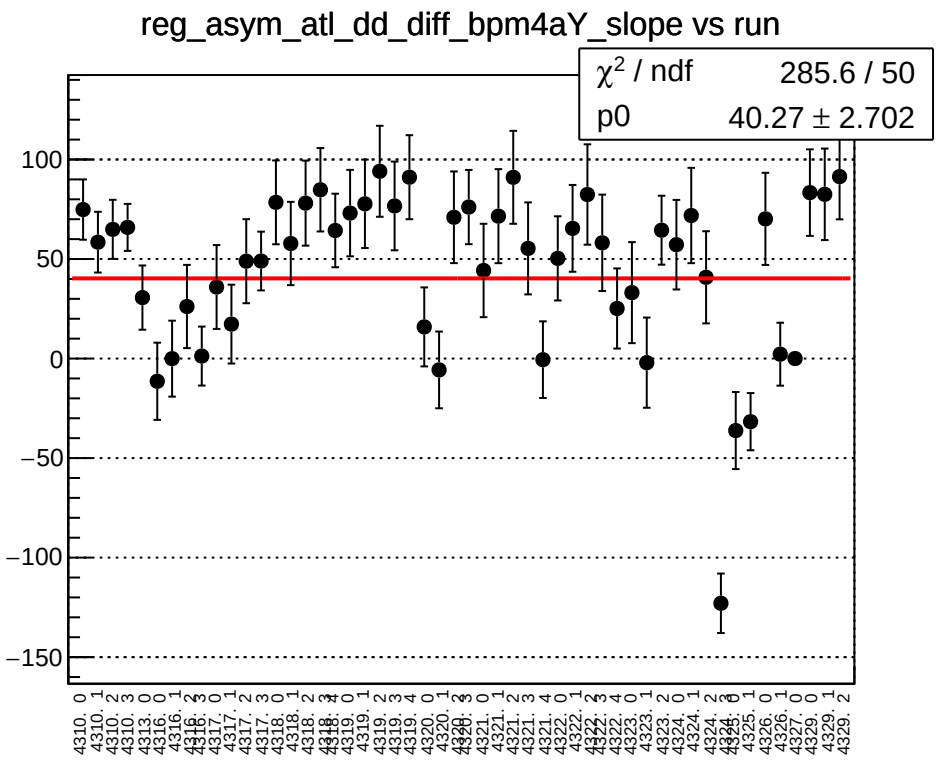
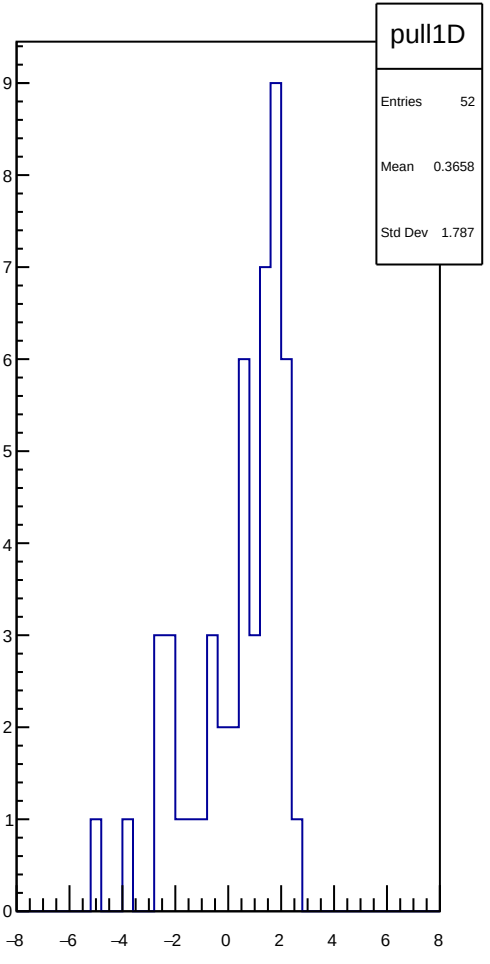
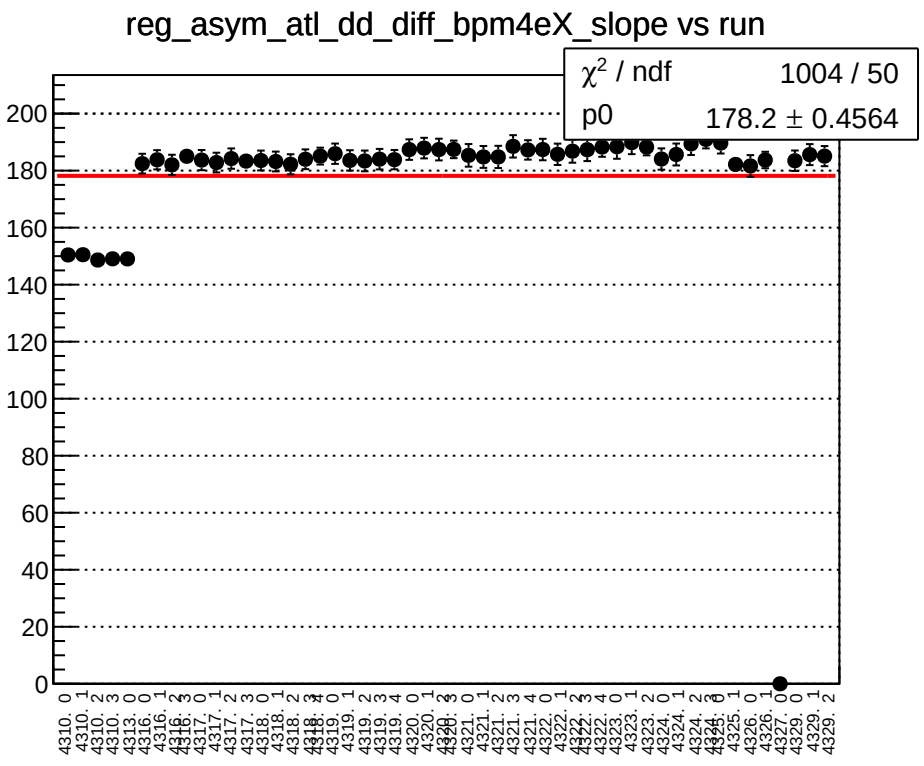
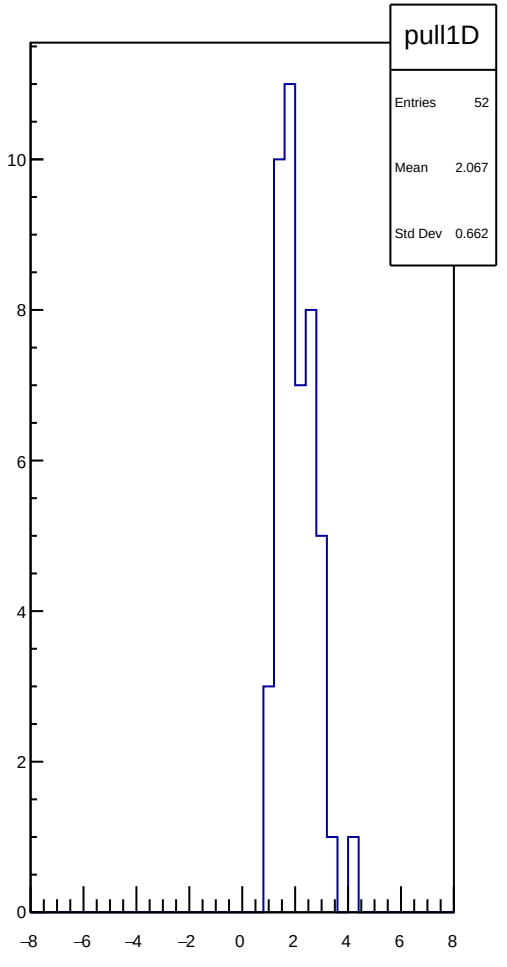
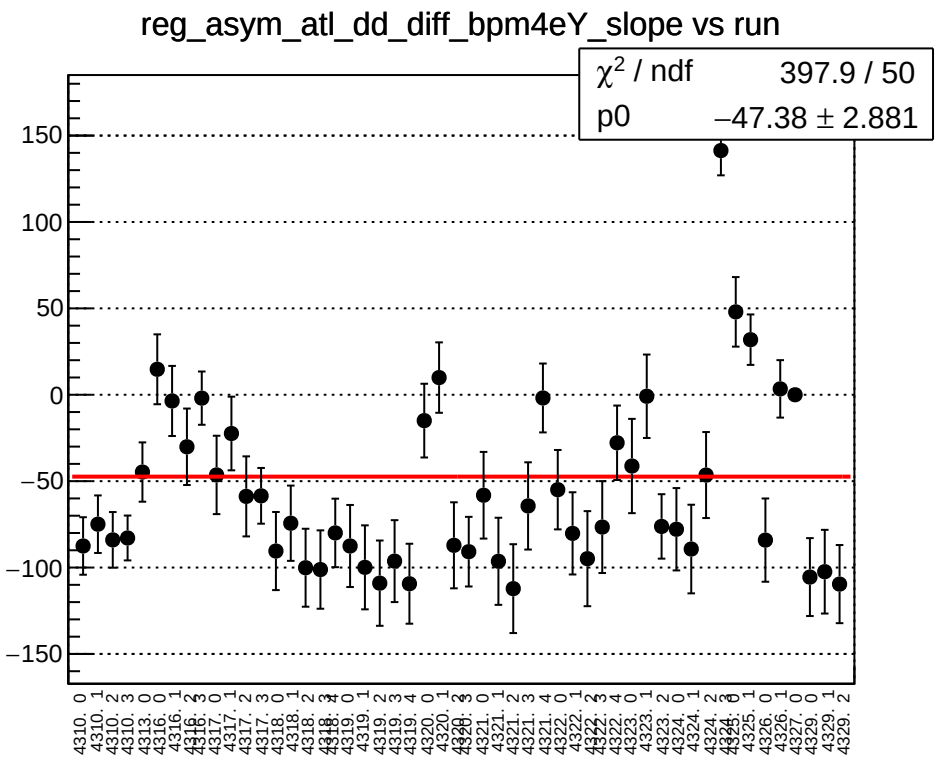
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

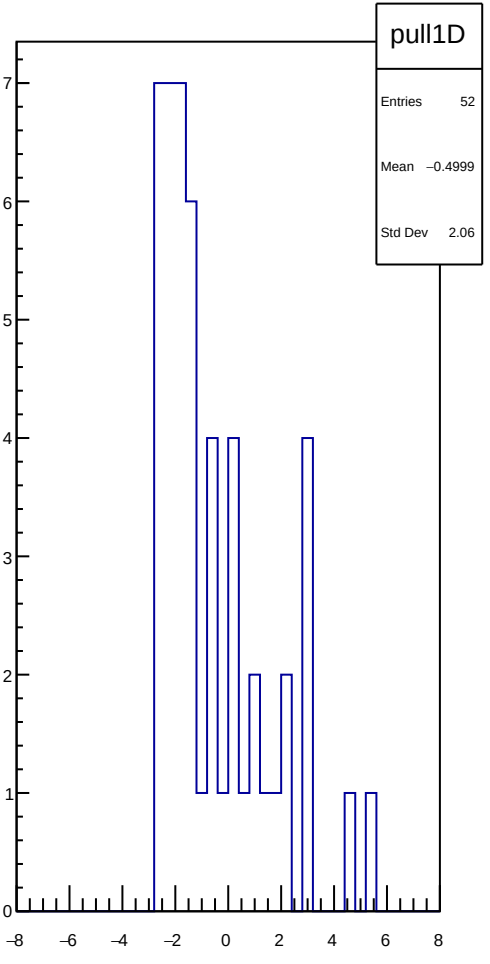

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 285.6 / 50
p0 40.27 ± 2.702
100
50
0
−50
−100
−150

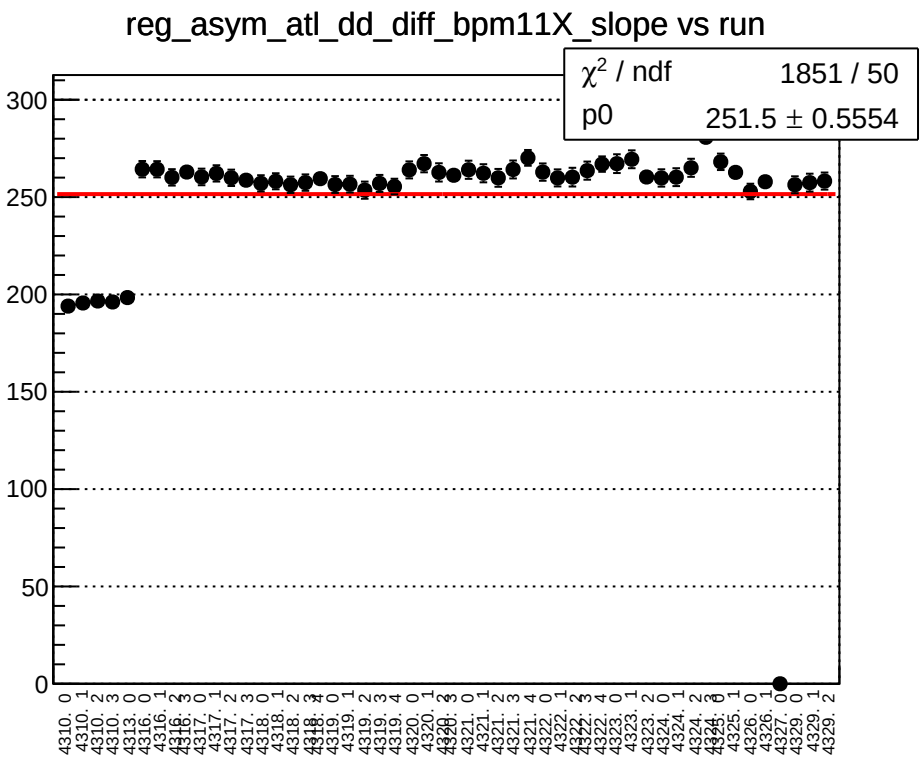

pull1D
Entries 52
Mean 0.3658
Std Dev 1.787
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

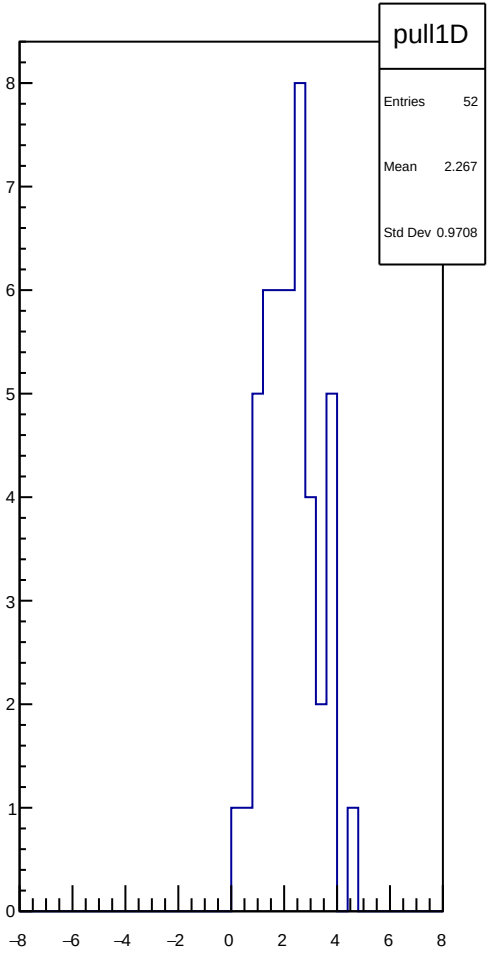

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 1004 / 50
p0 178.2 ± 0.4564

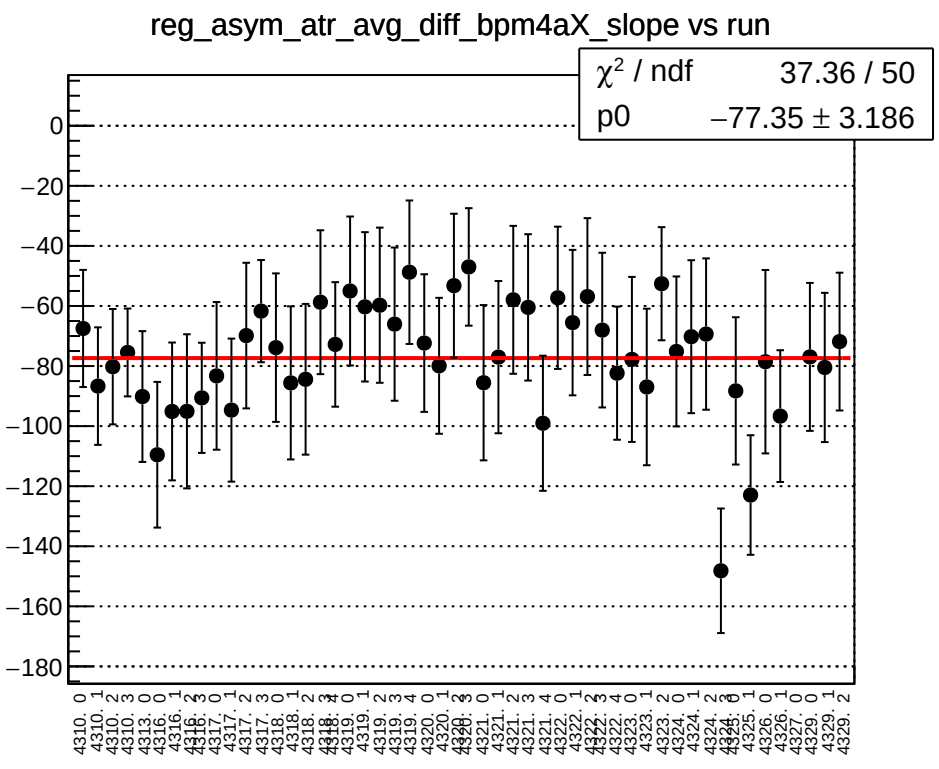

pull1D
Entries 52
Mean 2.067
Std Dev 0.662

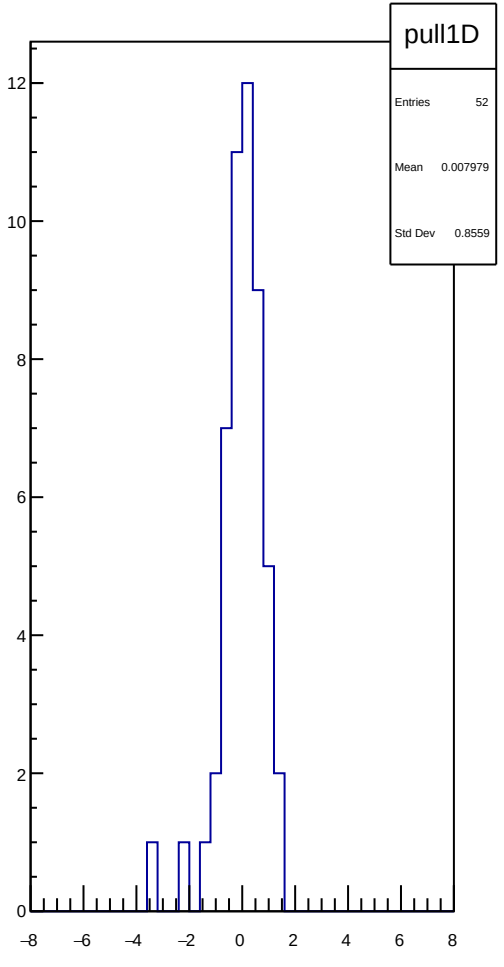

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 397.9 / 50
p0 −47.38 ± 2.881
150
100
50
0
−50
−100
−150

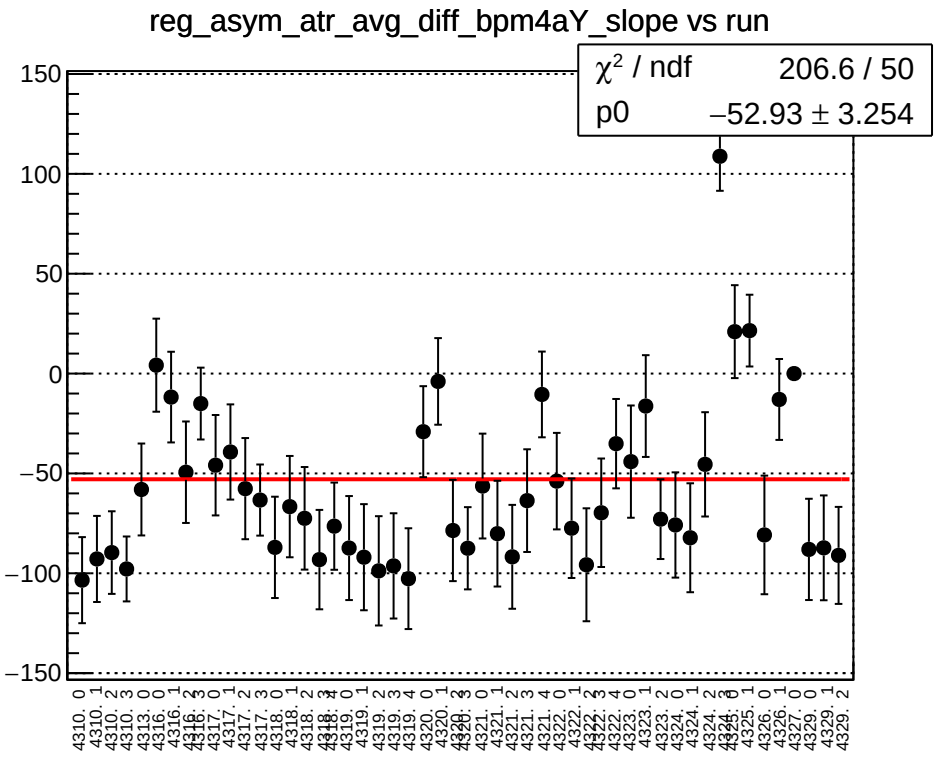

pull1D
Entries 52
Mean −0.4999
Std Dev 2.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

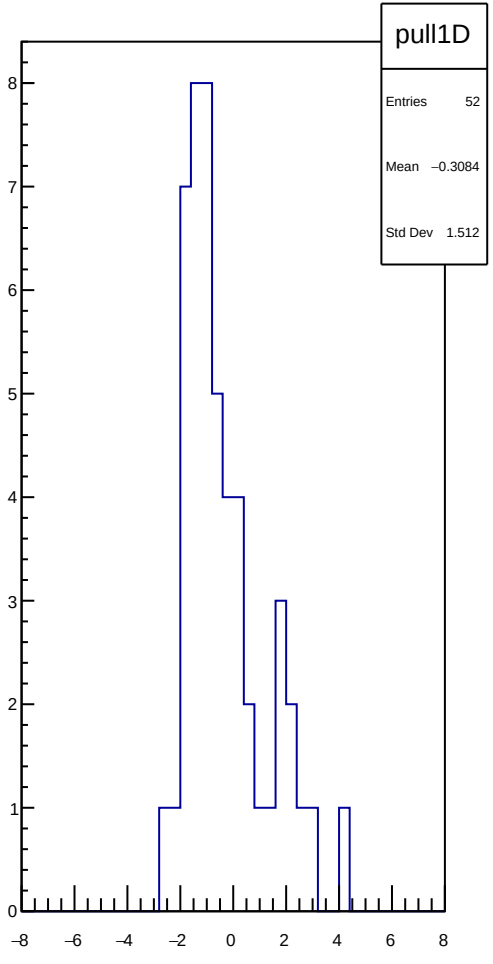

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 1851 / 50
p0 251.5 ± 0.5554
300
250
200
150
100
50
0

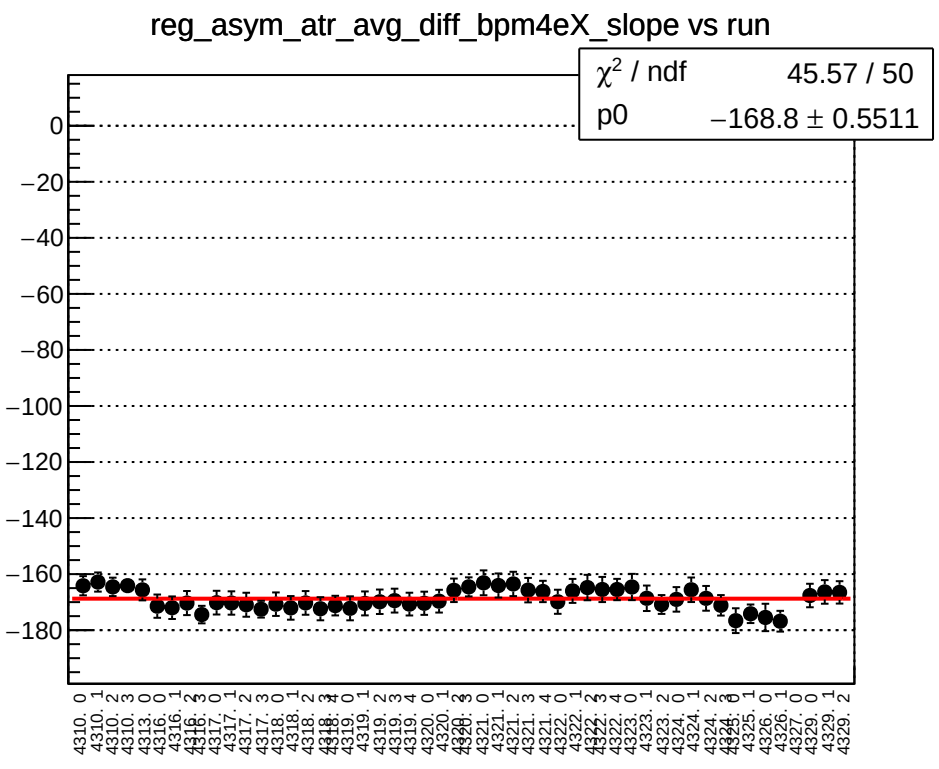

pull1D
Entries 52
Mean 2.267
Std Dev 0.9708
8
7
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

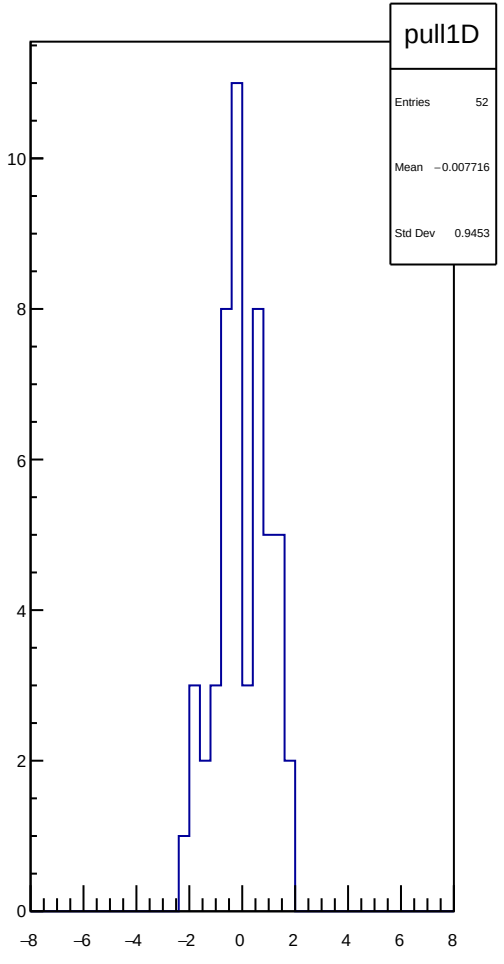

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 37.36 / 50
p0 −77.35 ± 3.186
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

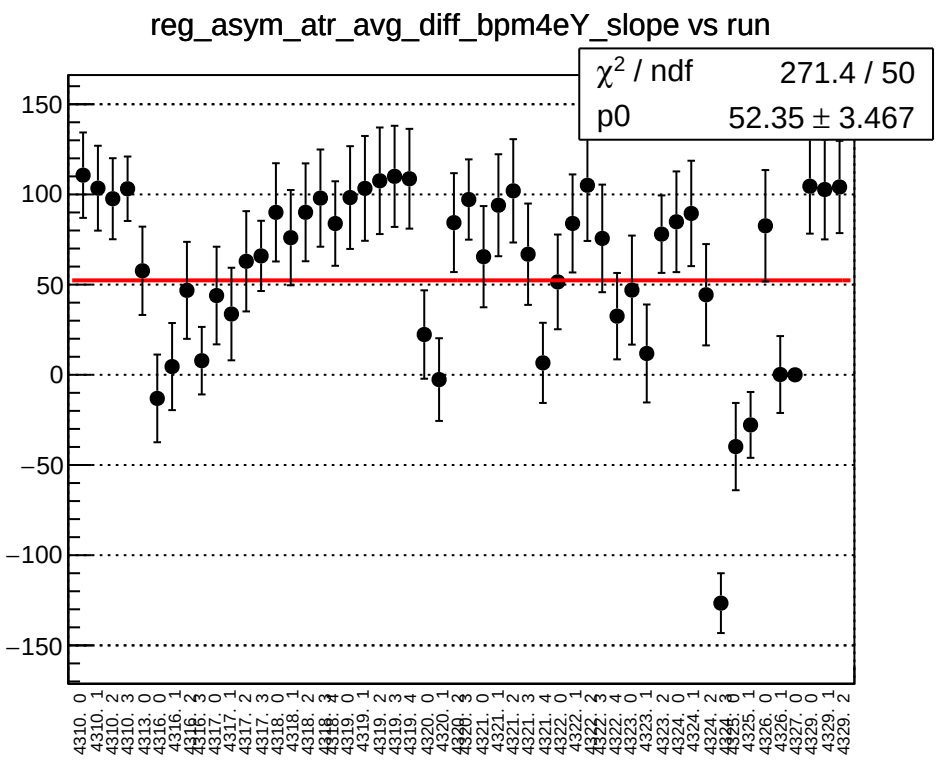

pull1D
Entries 52
Mean 0.007979
Std Dev 0.8559
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

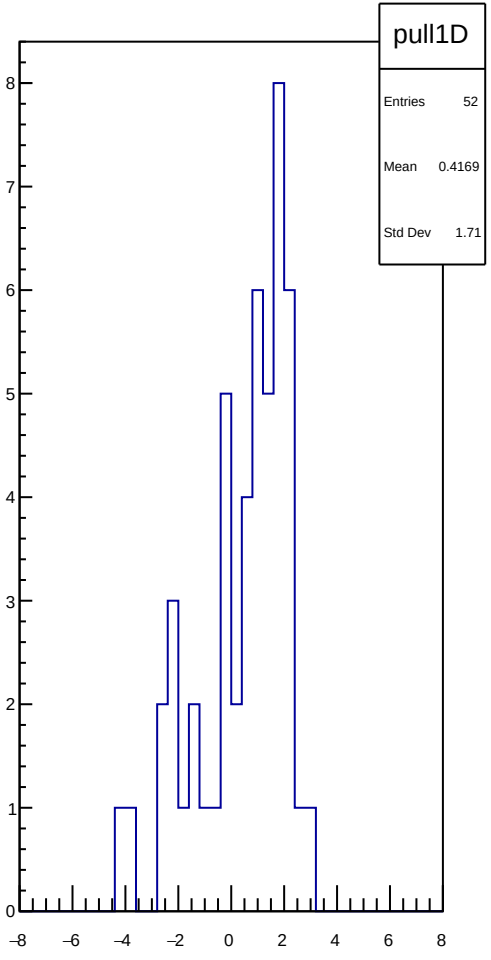

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 206.6 / 50
p0 −52.93 ± 3.254
150
100
50
0
−50
−100
−150

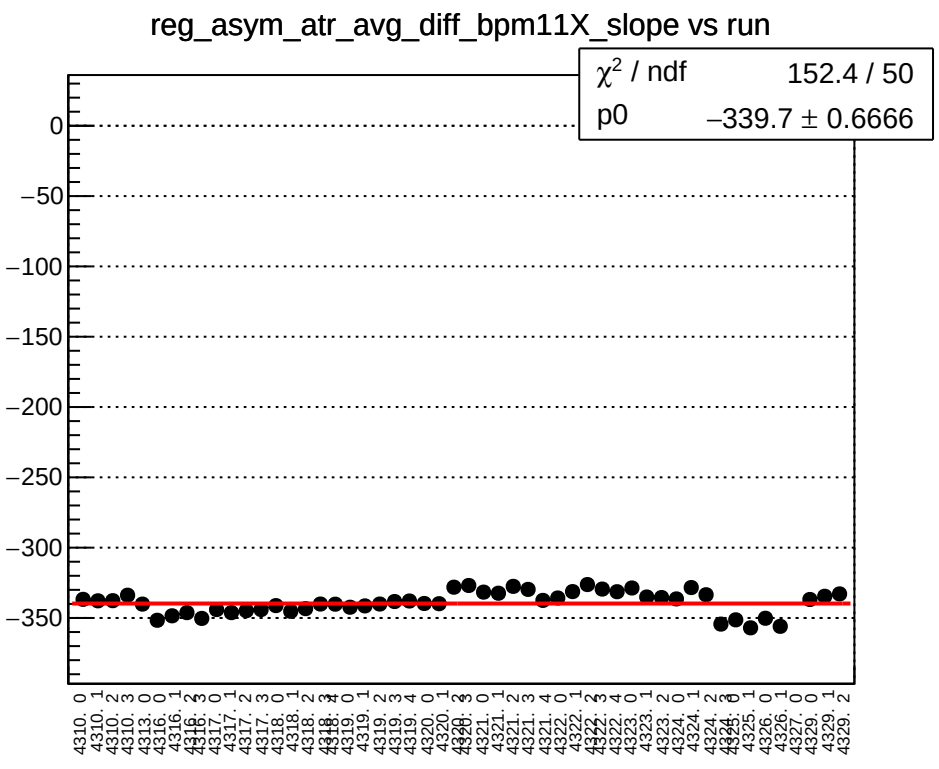

pull1D
Entries 52
Mean −0.3084
Std Dev 1.512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

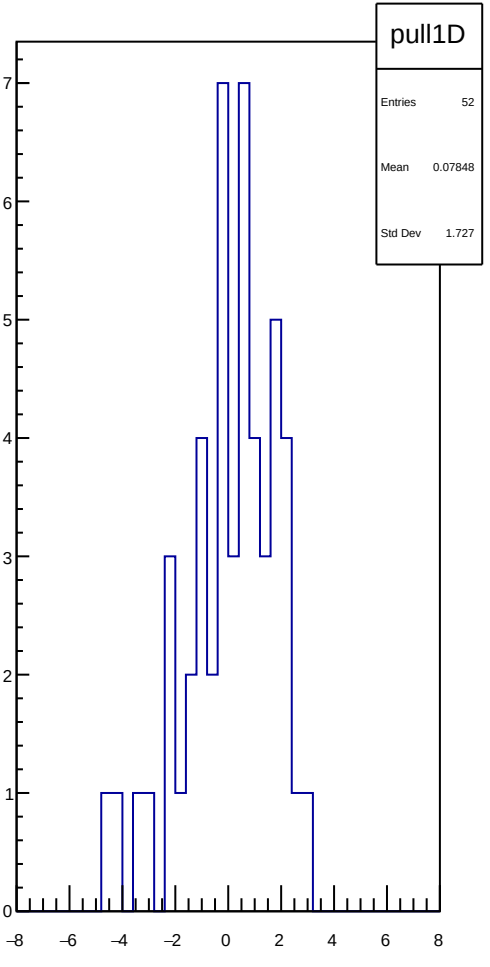

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.57 / 50
p0 −168.8 ± 0.5511
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

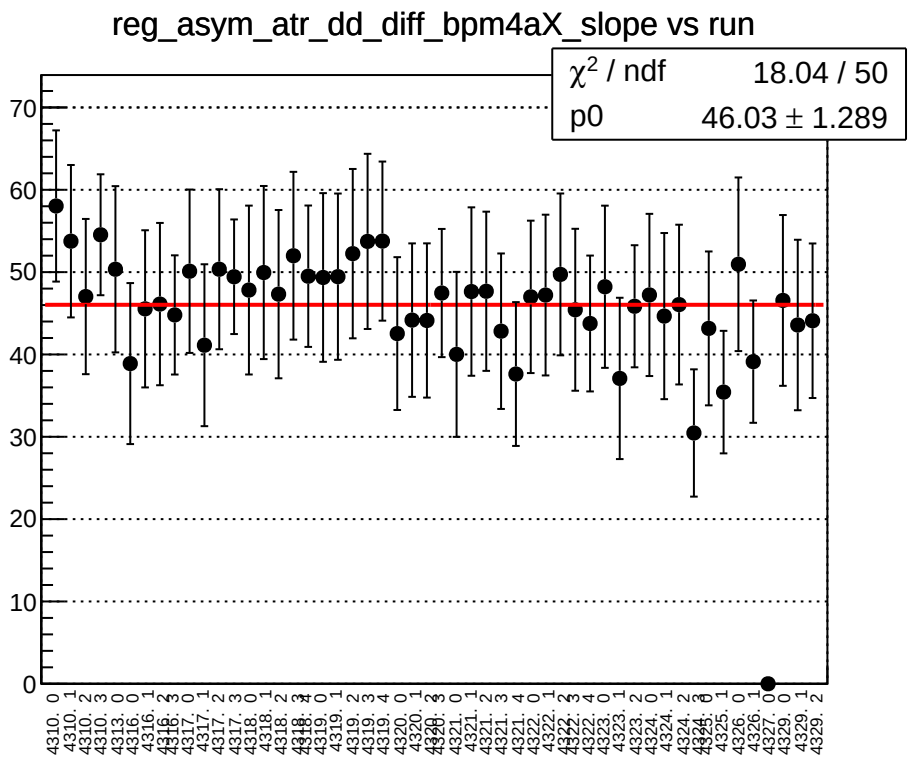

pull1D
Entries 52
Mean −0.007716
Std Dev 0.9453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

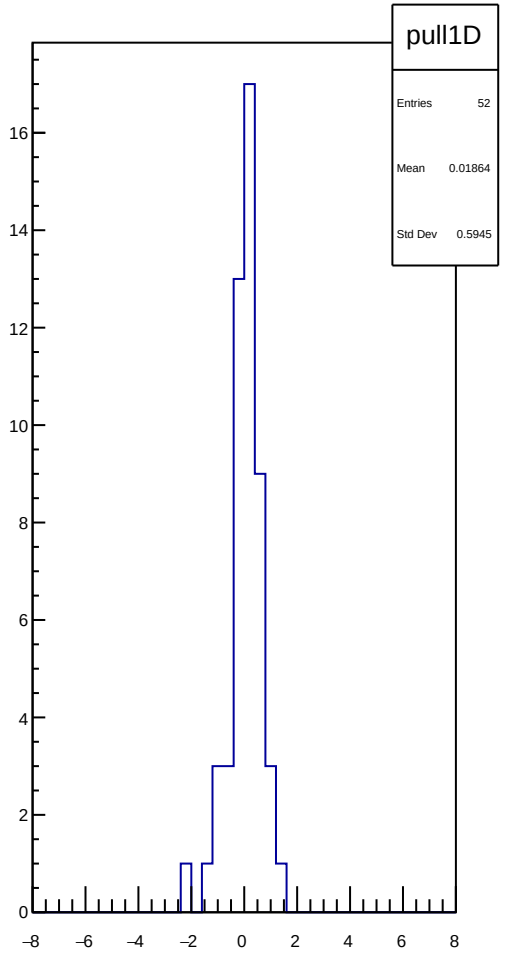

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 271.4 / 50
p0 52.35 ± 3.467
150
100
50
0
−50
−100
−150

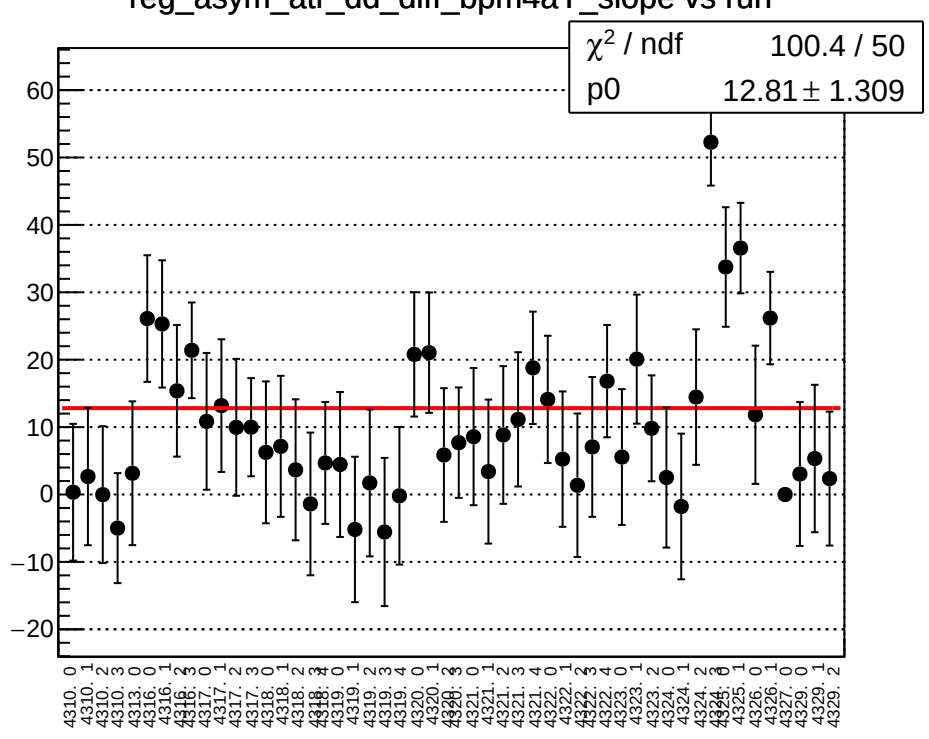

pull1D
Entries 52
Mean 0.4169
Std Dev 1.71
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

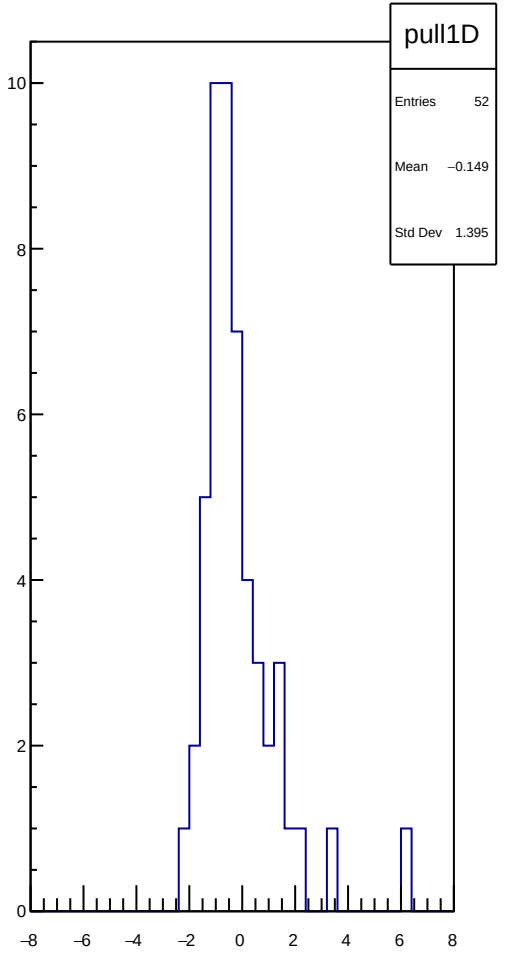

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 152.4 / 50
p0 −339.7 ± 0.6666
0
−50
−100
−150
−200
−250
−300
−350

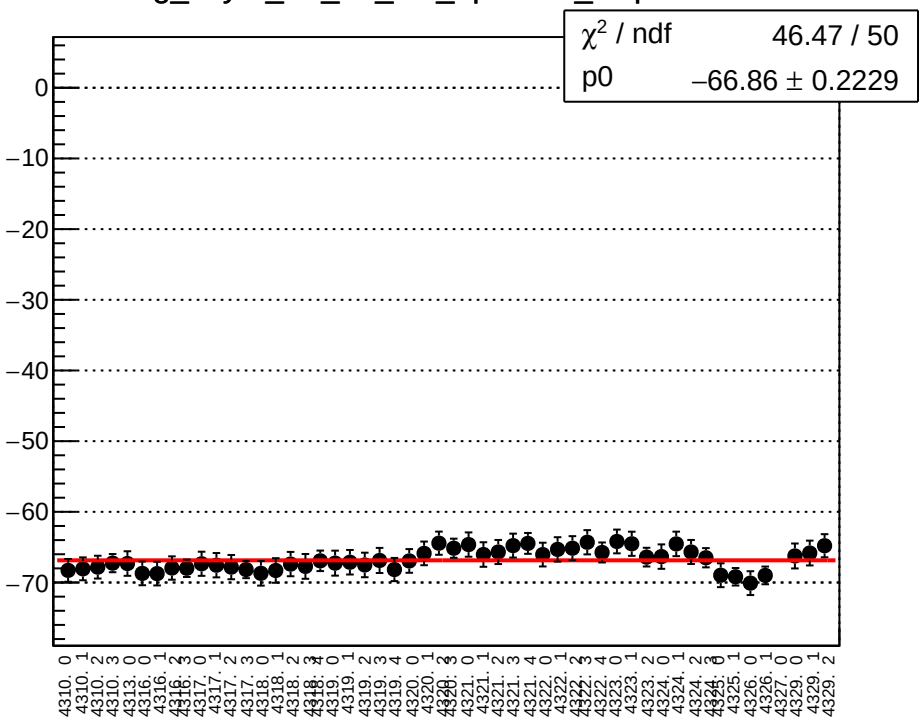

pull1D
Entries 52
Mean 0.07848
Std Dev 1.727
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

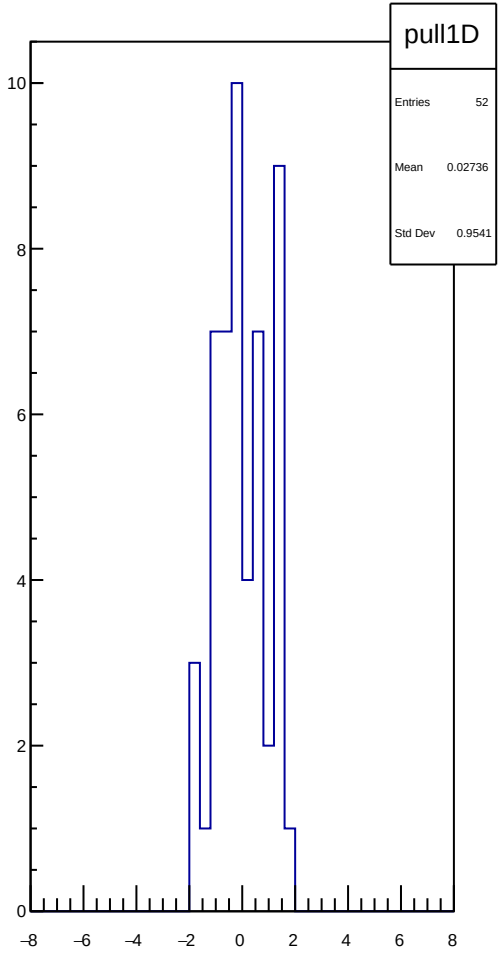

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.04 / 50
p0 46.03 ± 1.289

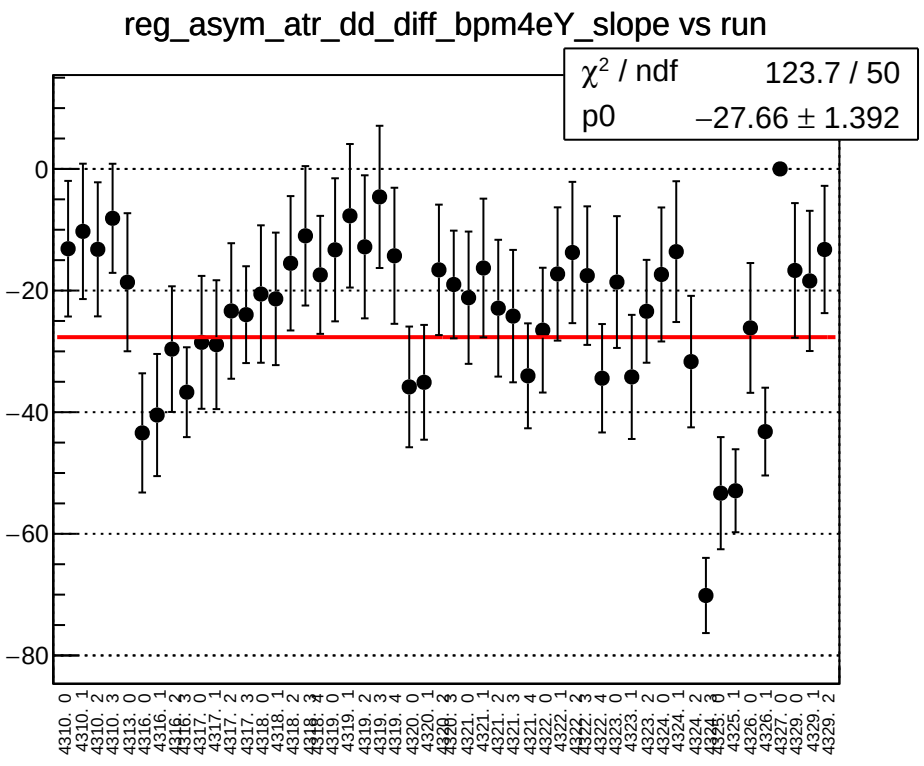

pull1D
Entries 52
Mean 0.01864
Std Dev 0.5945

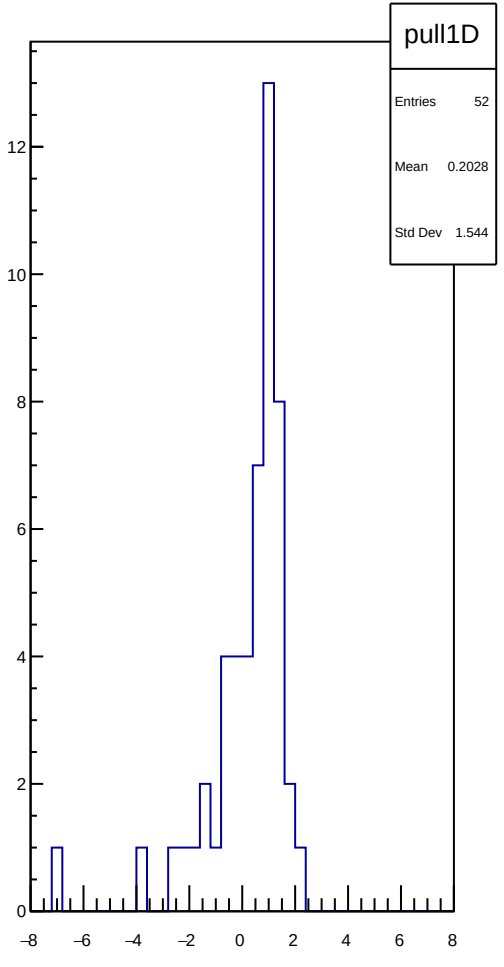

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 50
p0 12.81 ± 1.309

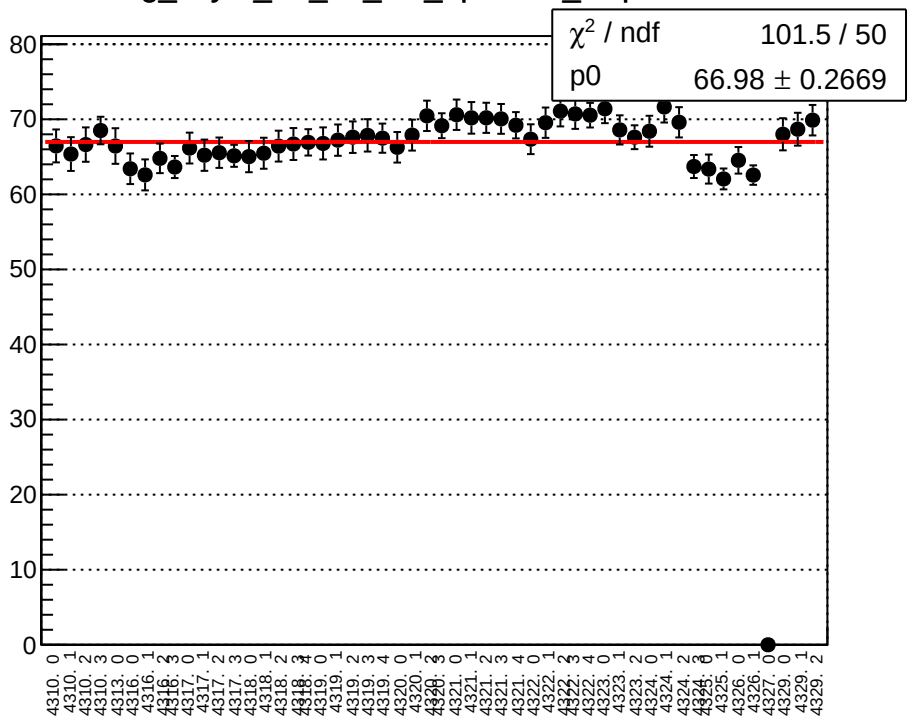

pull1D
Entries 52
Mean −0.149
Std Dev 1.395

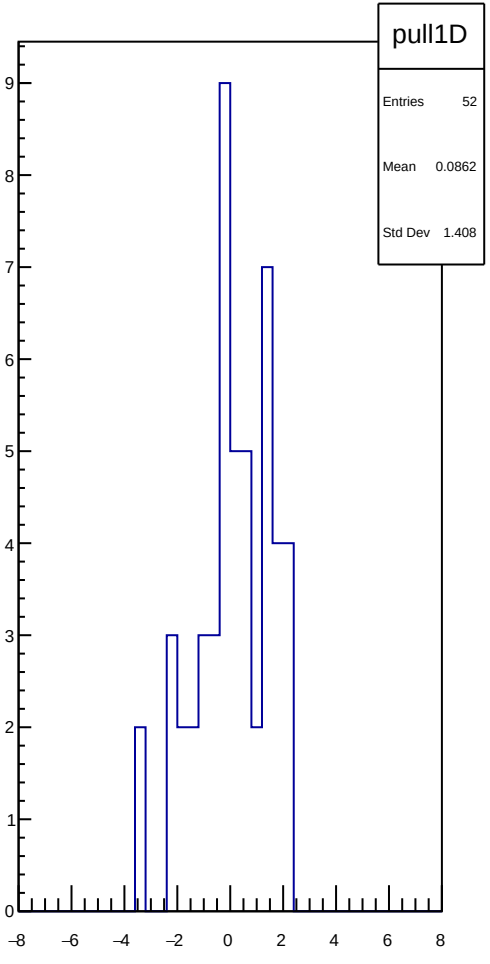

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.47 / 50
p0 −66.86 ± 0.2229
0
−10
−20
−30
−40
−50
−60
−70

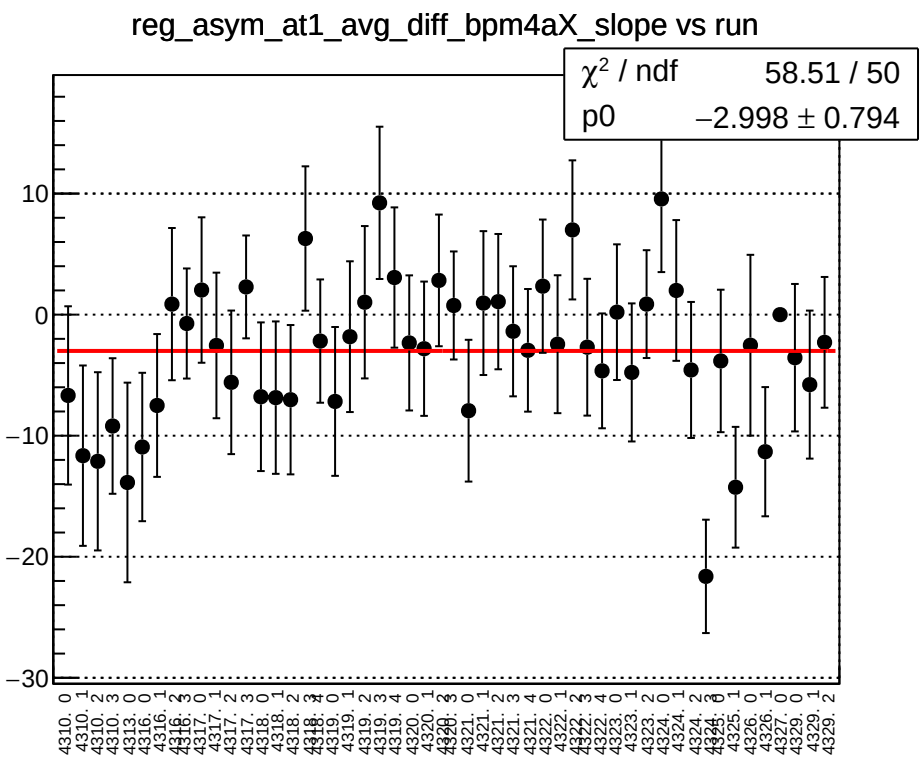

pull1D
Entries 52
Mean 0.02736
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

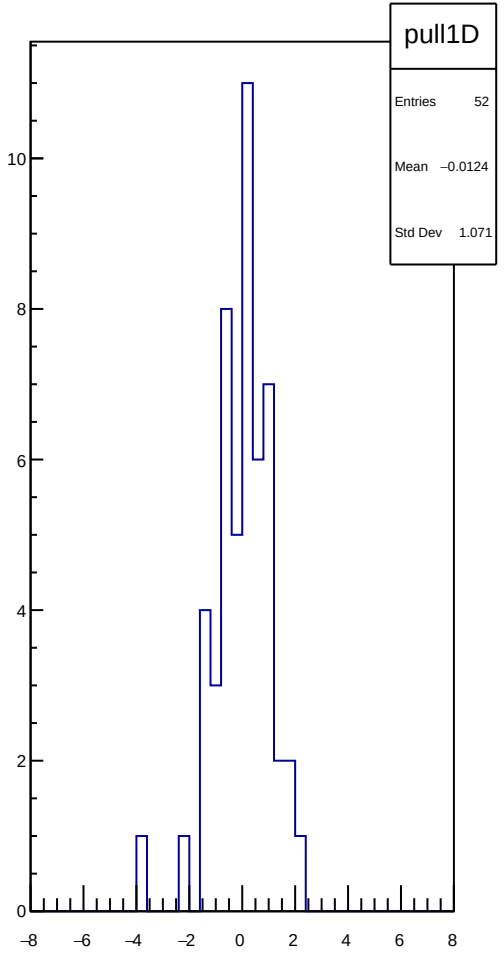

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 123.7 / 50
p0 −27.66 ± 1.392
0
−20
−40
−60
−80

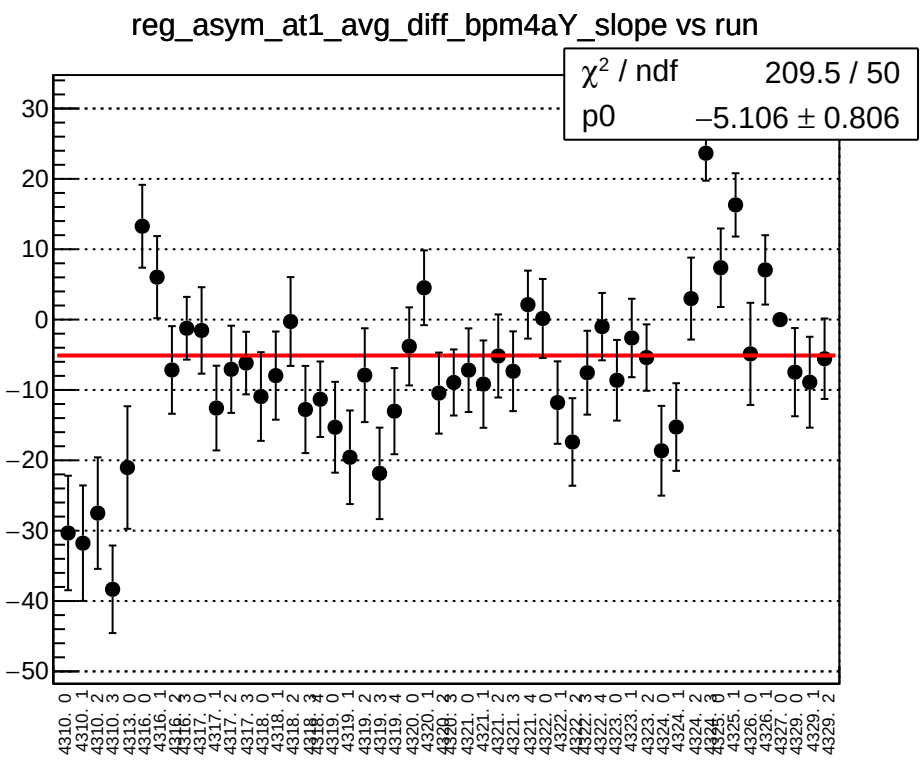

pull1D
Entries 52
Mean 0.2028
Std Dev 1.544
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

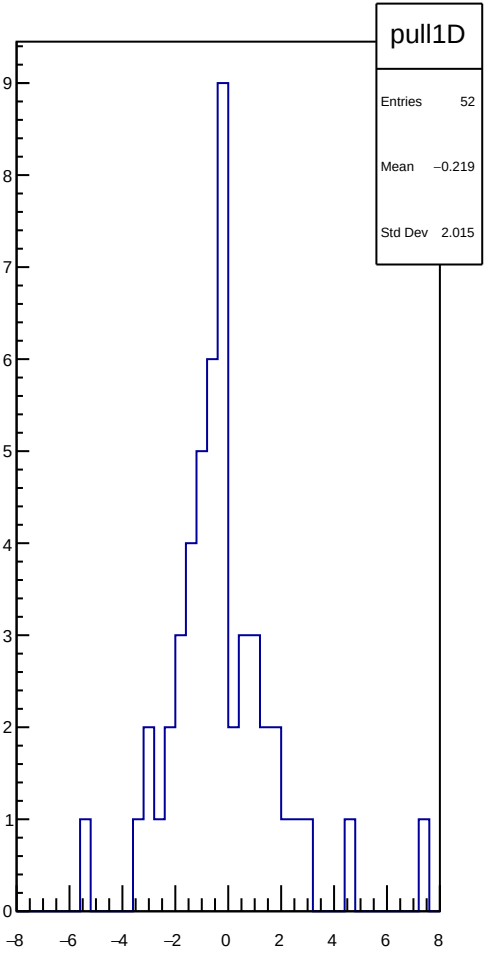

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 101.5 / 50
p0 66.98 ± 0.2669
80
70
60
50
40
30
20
10
0

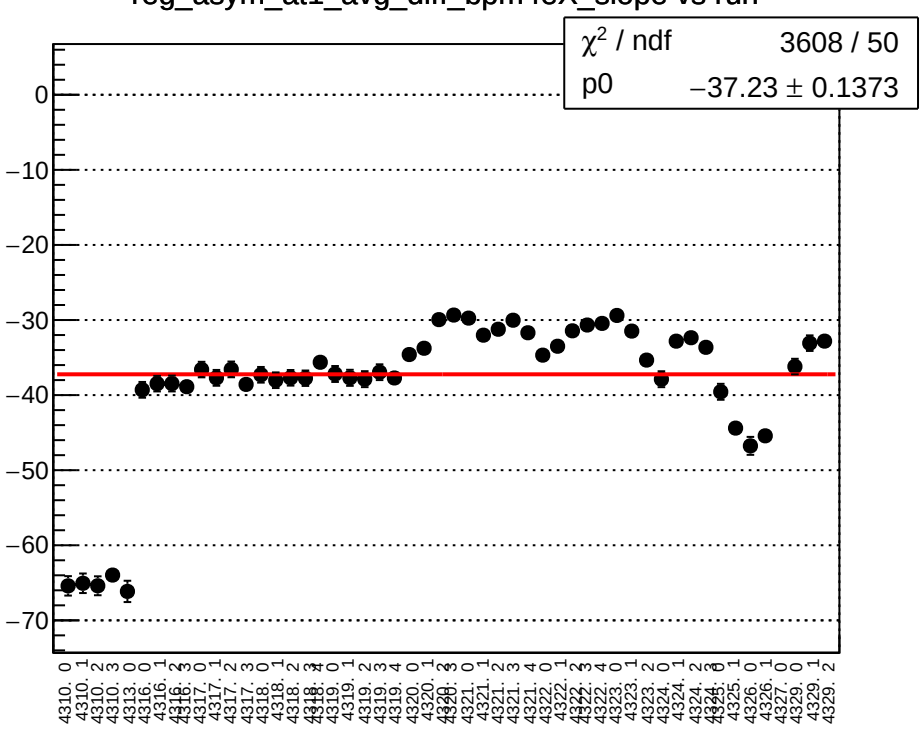

pull1D
Entries 52
Mean 0.0862
Std Dev 1.408
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

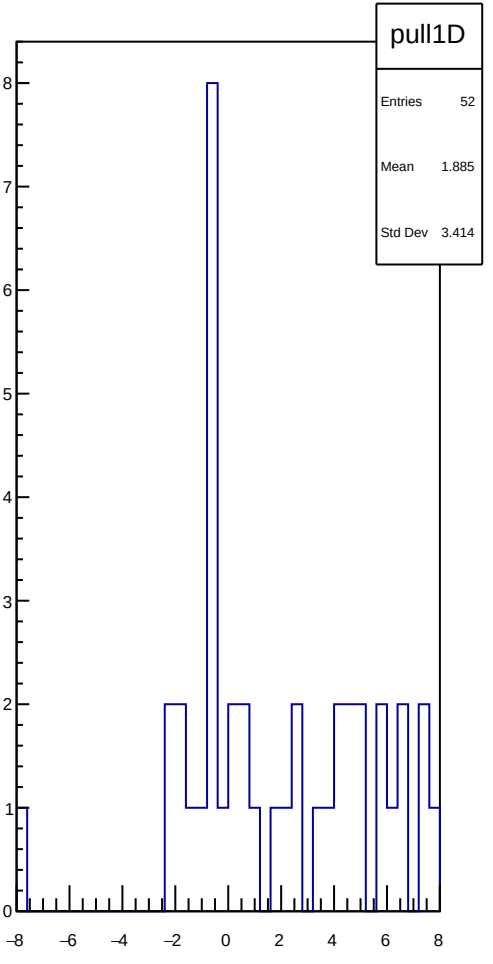

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 58.51 / 50
p0 −2.998 ± 0.794
10
0
−10
−20
−30

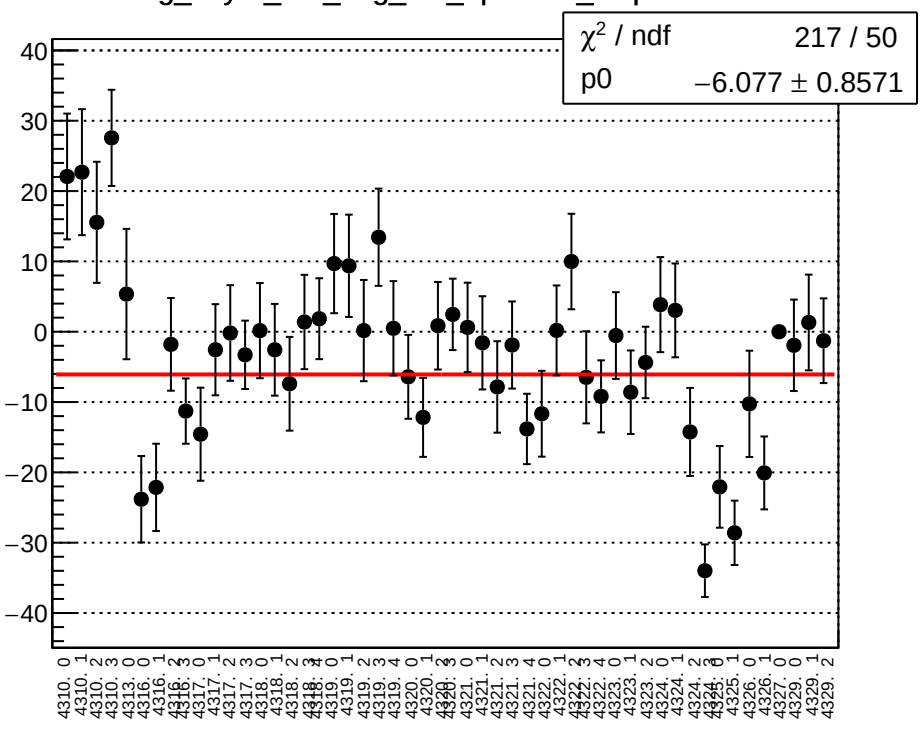

pull1D
Entries 52
Mean −0.0124
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

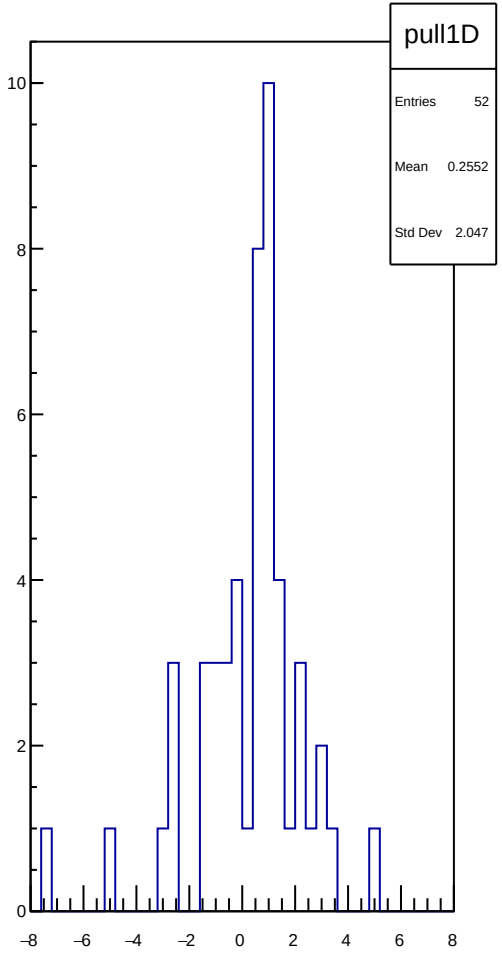

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 209.5 / 50
p0 −5.106 ± 0.806
30
20
10
0
−10
−20
−30
−40
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

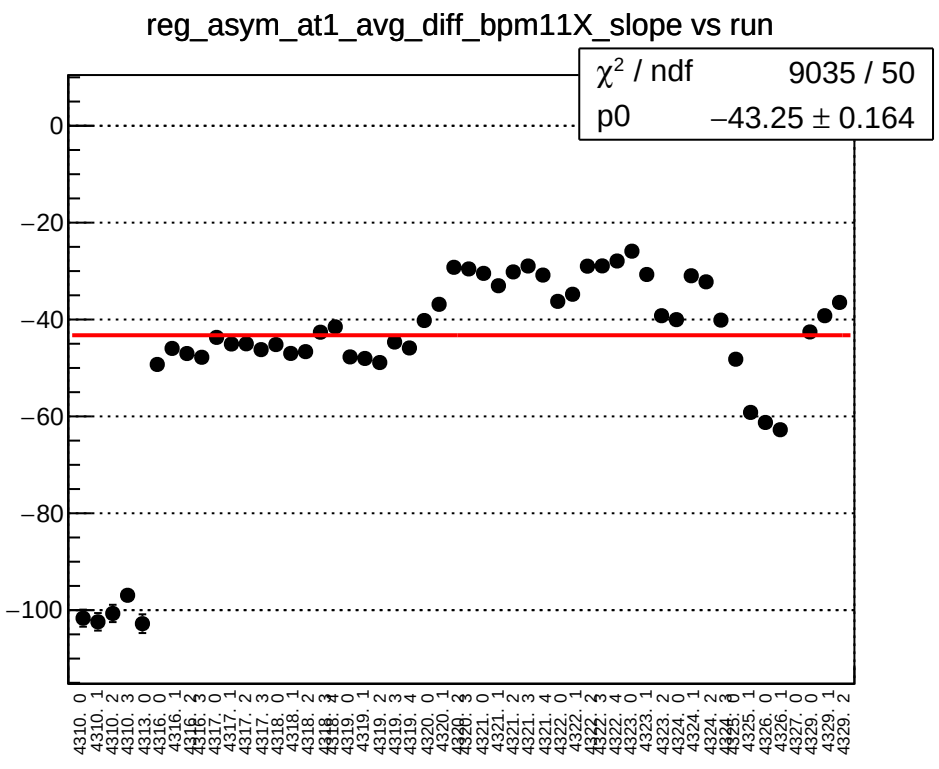

pull1D
Entries 52
Mean −0.219
Std Dev 2.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

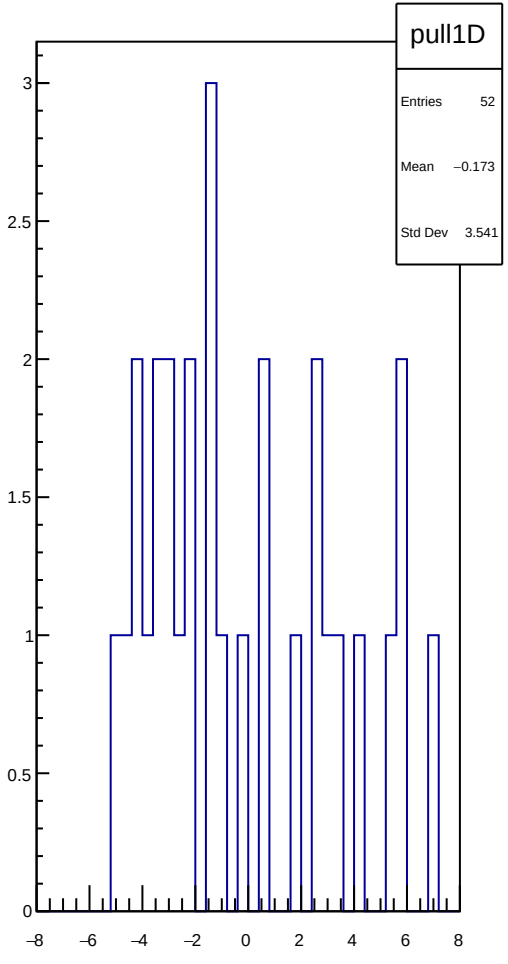

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 3608 / 50
p0 −37.23 ± 0.1373
0
−10
−20
−30
−40
−50
−60
−70
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

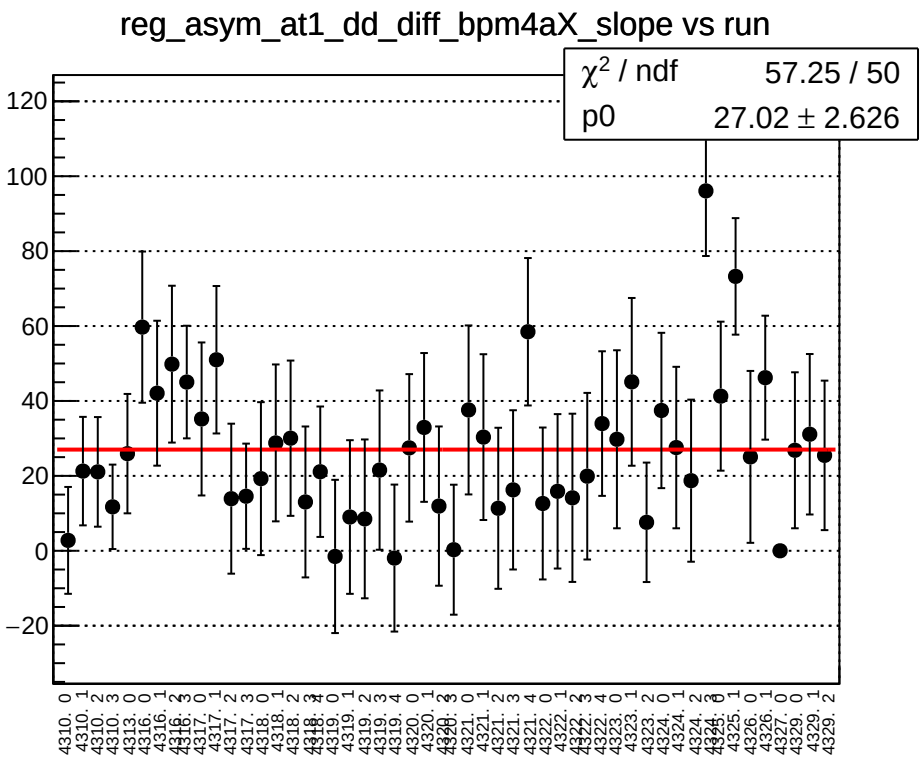

pull1D
Entries 52
Mean 1.885
Std Dev 3.414
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

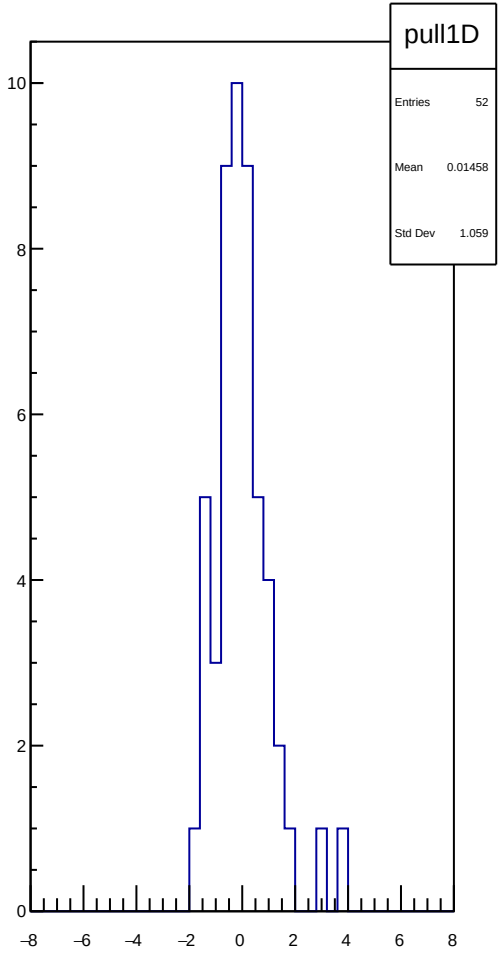

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 217 / 50
p0 −6.077 ± 0.8571
40
30
20
10
0
−10
−20
−30
−40

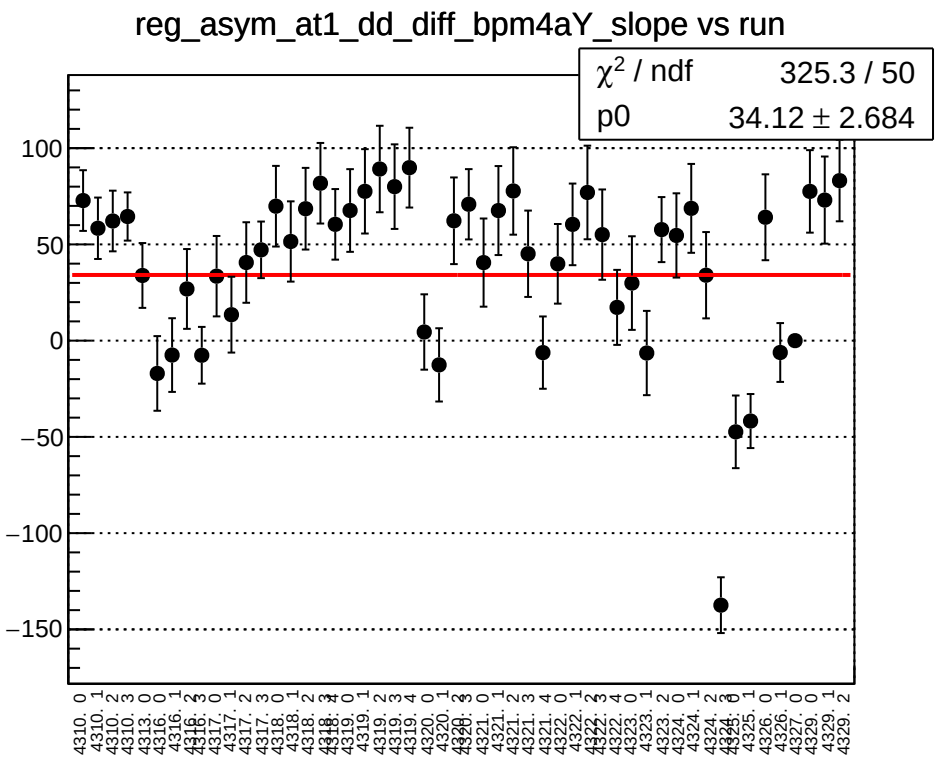

pull1D
Entries 52
Mean 0.2552
Std Dev 2.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

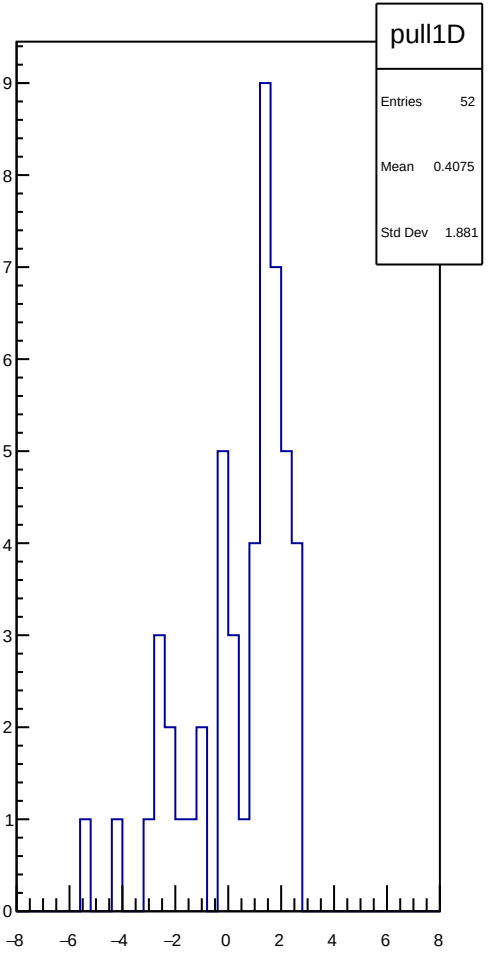

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ^2 / ndf 9035 / 50
p0 −43.25 ± 0.164
0
−20
−40
−60
−80
−100

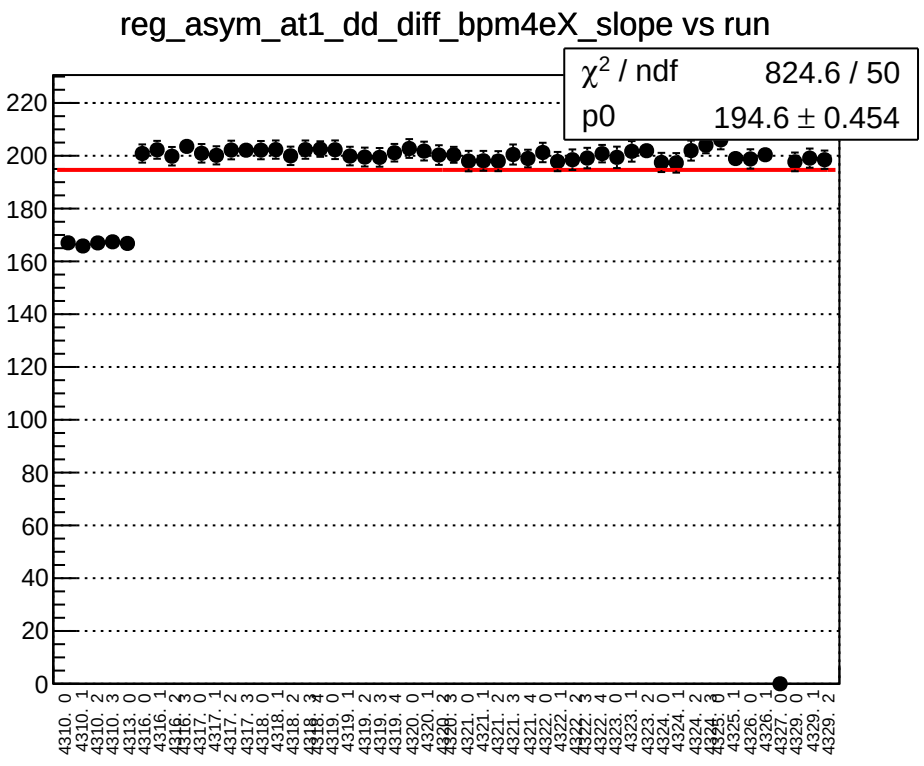

pull1D
Entries 52
Mean −0.173
Std Dev 3.541
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

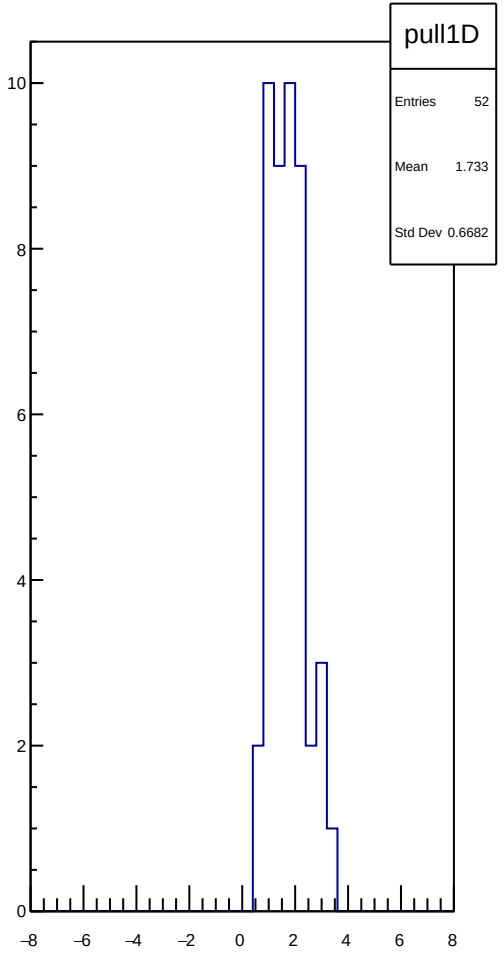

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.25 / 50
p0 27.02 ± 2.626
120
100
80
60
40
20
0
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

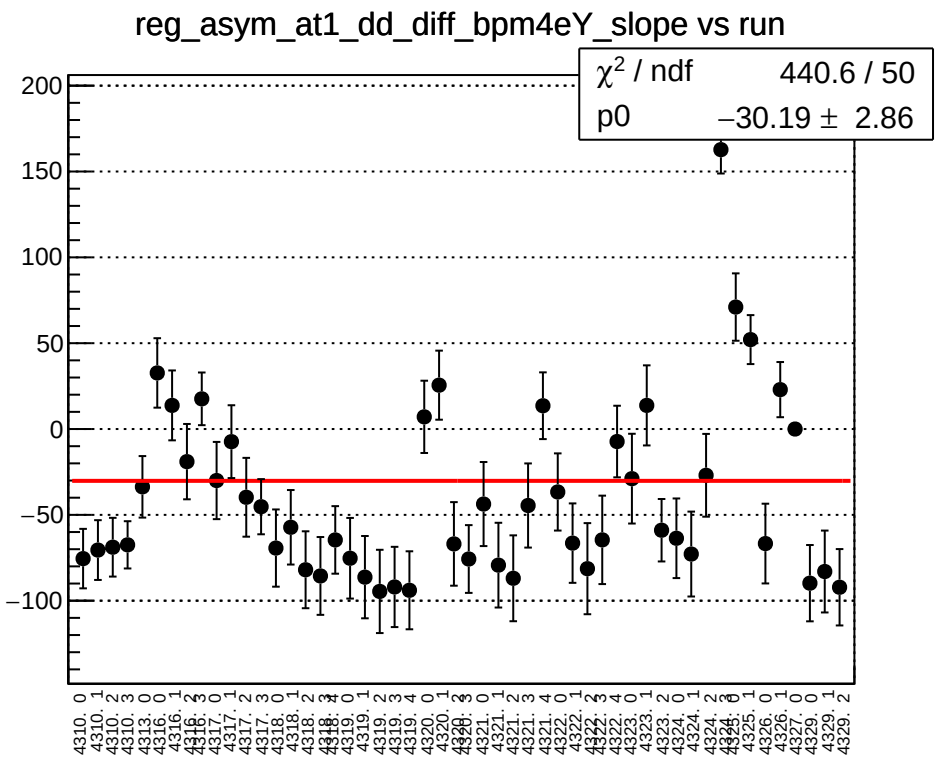

pull1D
Entries 52
Mean 0.01458
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

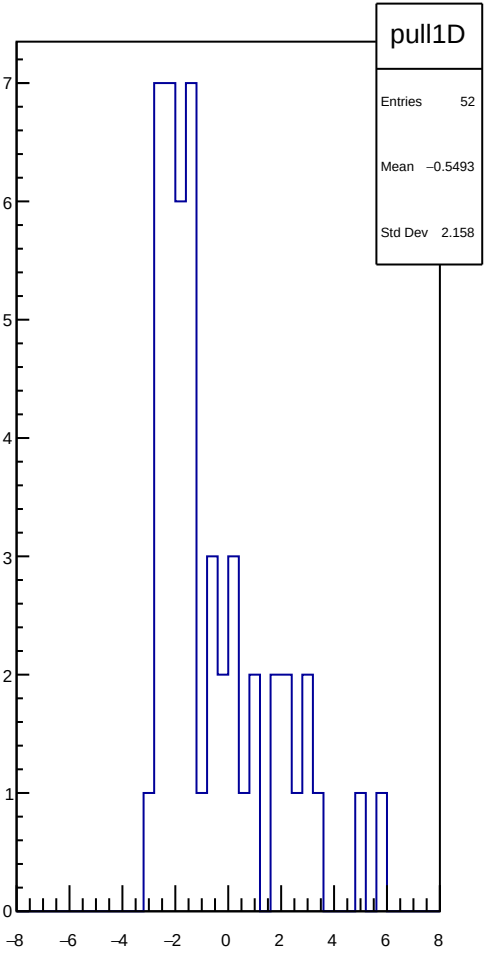

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 325.3 / 50
p0 34.12 ± 2.684
100
50
0
−50
−100
−150

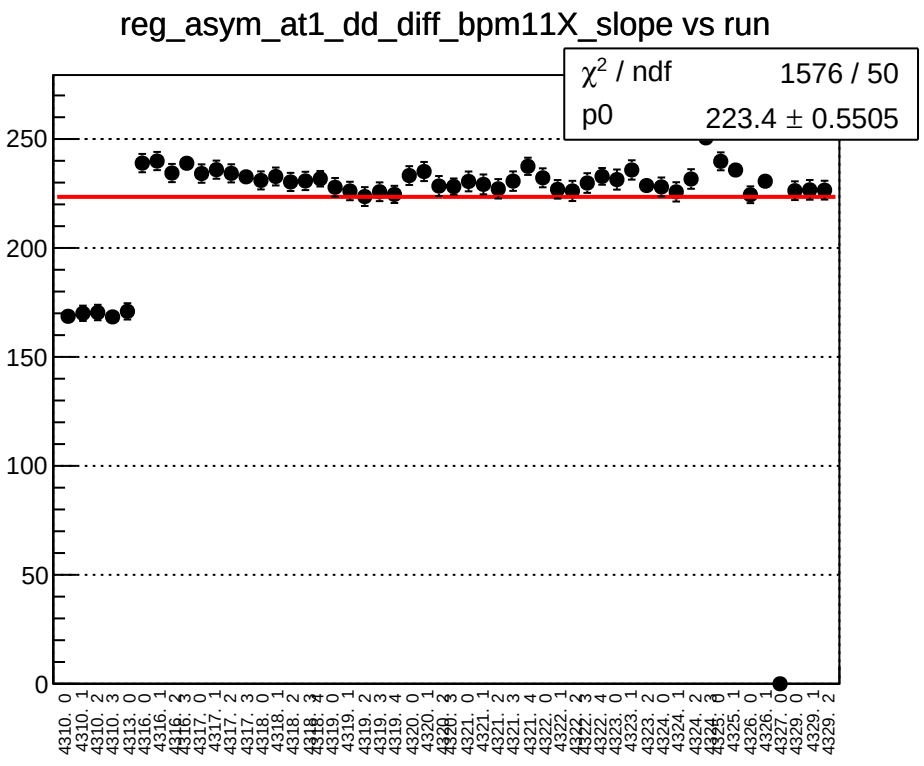

pull1D
Entries 52
Mean 0.4075
Std Dev 1.881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

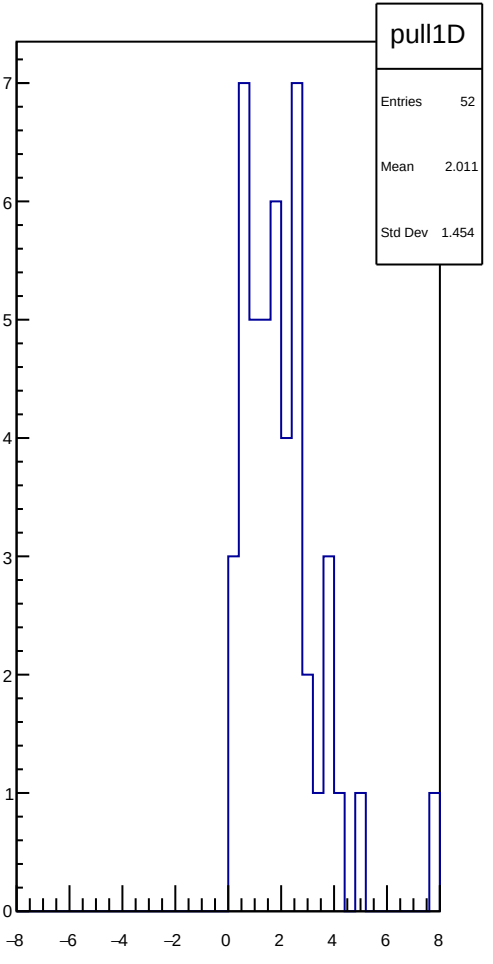

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 824.6 / 50
p0 194.6 ± 0.454
220
200
180
160
140
120
100
80
60
40
20
0

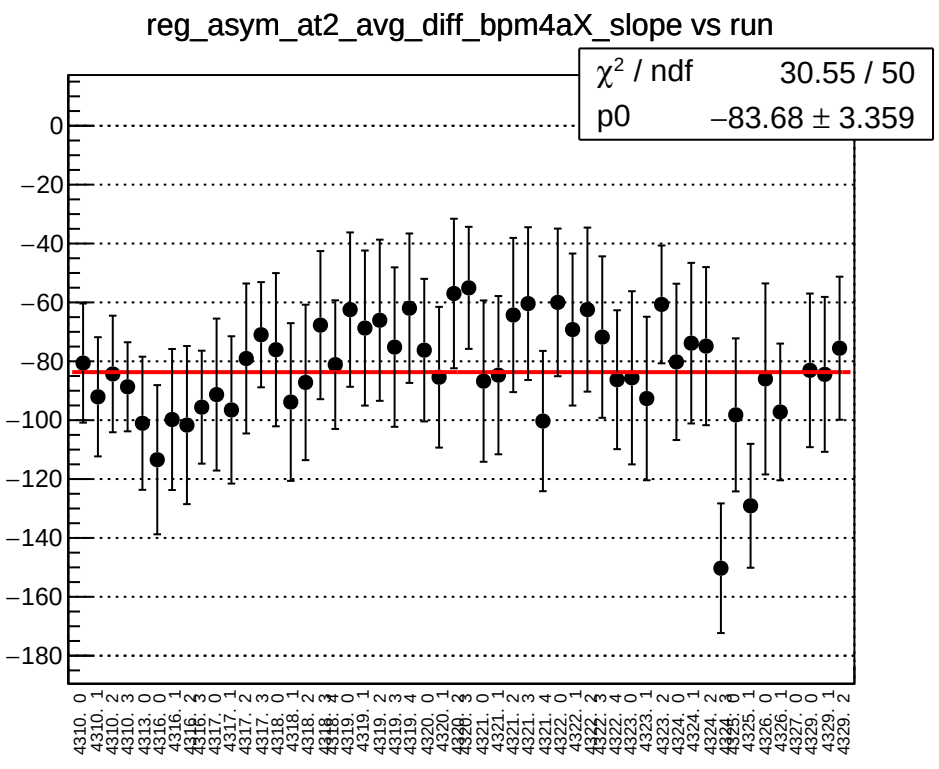

pull1D
Entries 52
Mean 1.733
Std Dev 0.6682
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

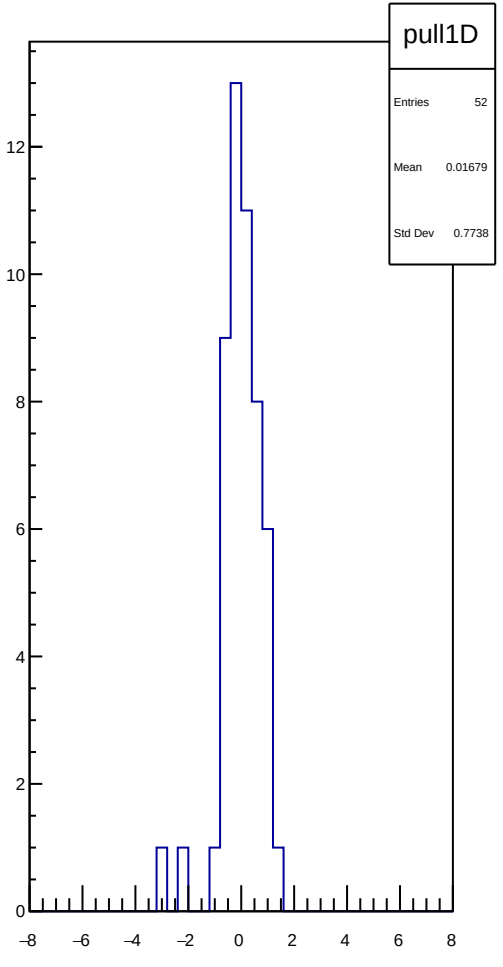

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 440.6 / 50
p0 −30.19 ± 2.86
200
150
100
50
0
−50
−100

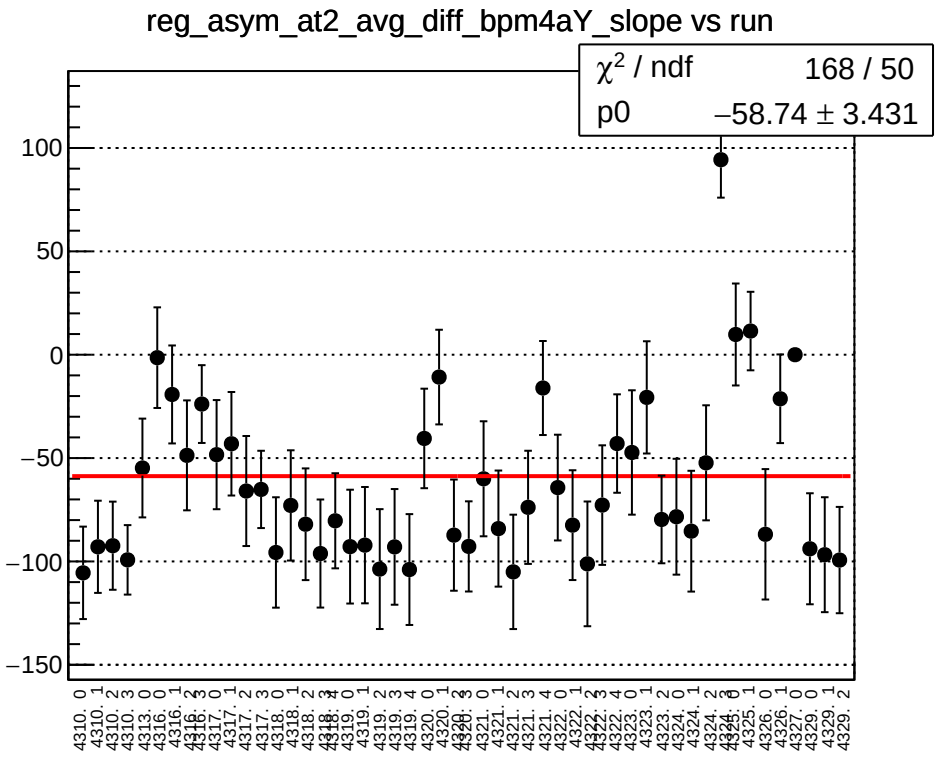

pull1D
Entries 52
Mean −0.5493
Std Dev 2.158
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

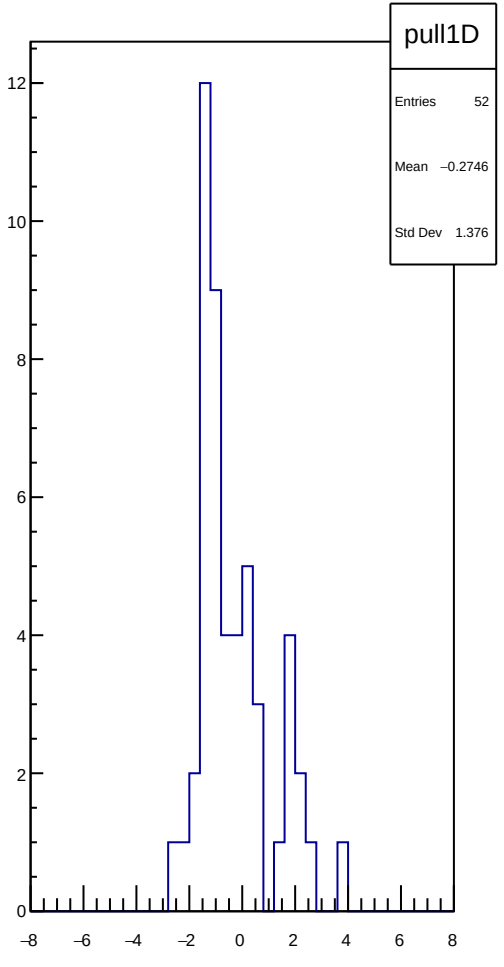

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 1576 / 50
p0 223.4 ± 0.5505
250
200
150
100
50
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

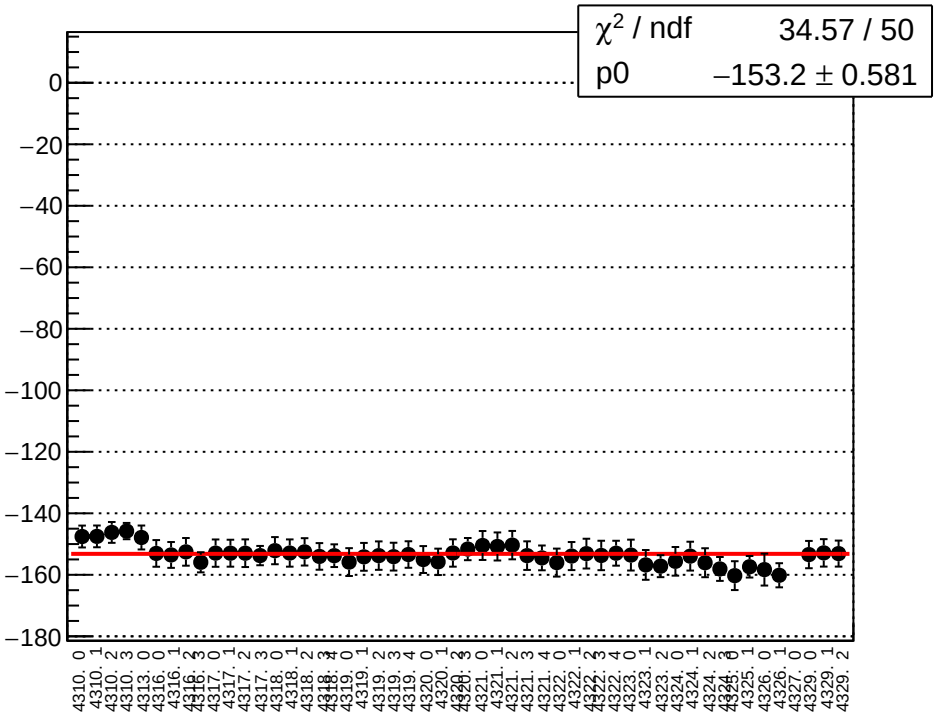

pull1D
Entries 52
Mean 2.011
Std Dev 1.454
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

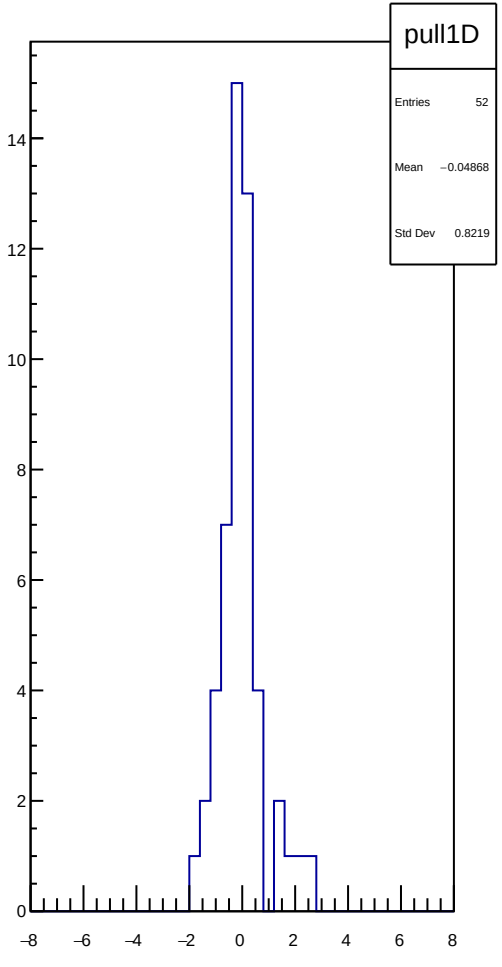

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.55 / 50
p0 −83.68 ± 3.359
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

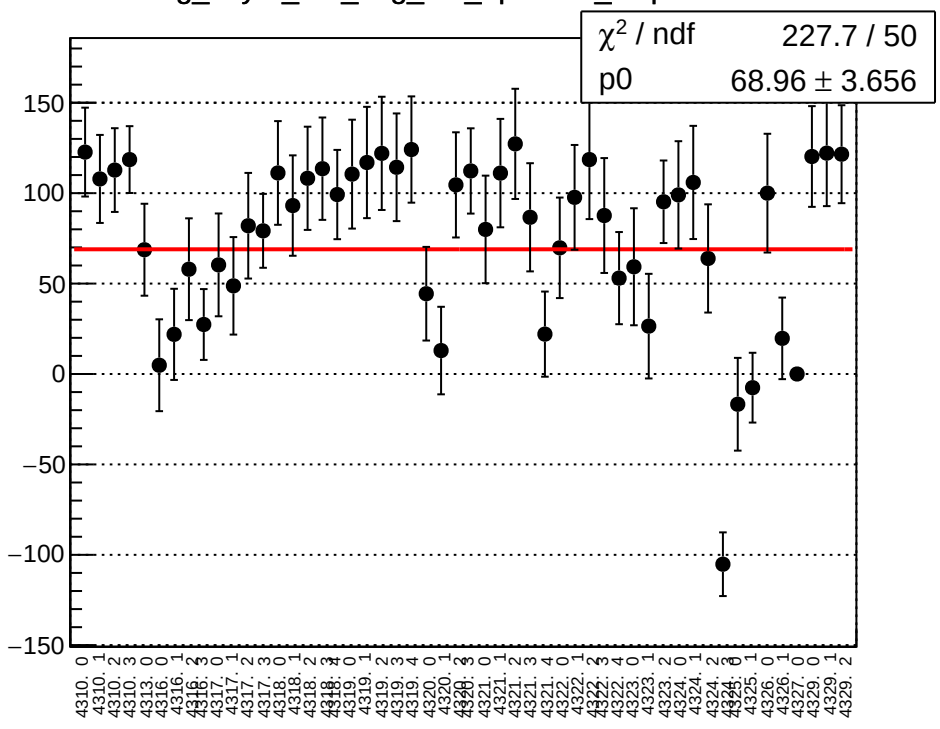

pull1D
Entries 52
Mean 0.01679
Std Dev 0.7738
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

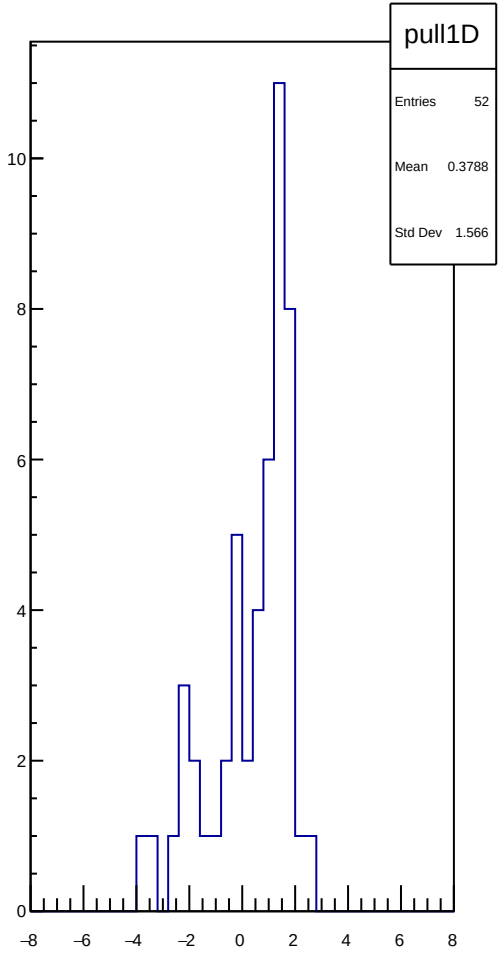

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 168 / 50
p0 −58.74 ± 3.431
100
50
0
−50
−100
−150

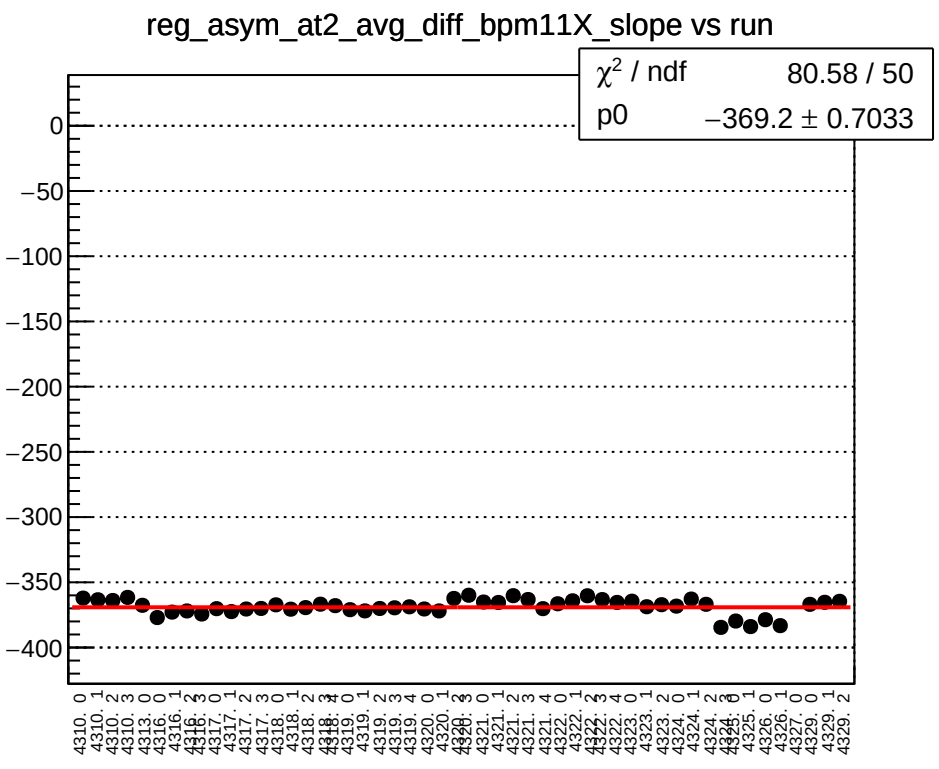

pull1D
Entries 52
Mean −0.2746
Std Dev 1.376
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

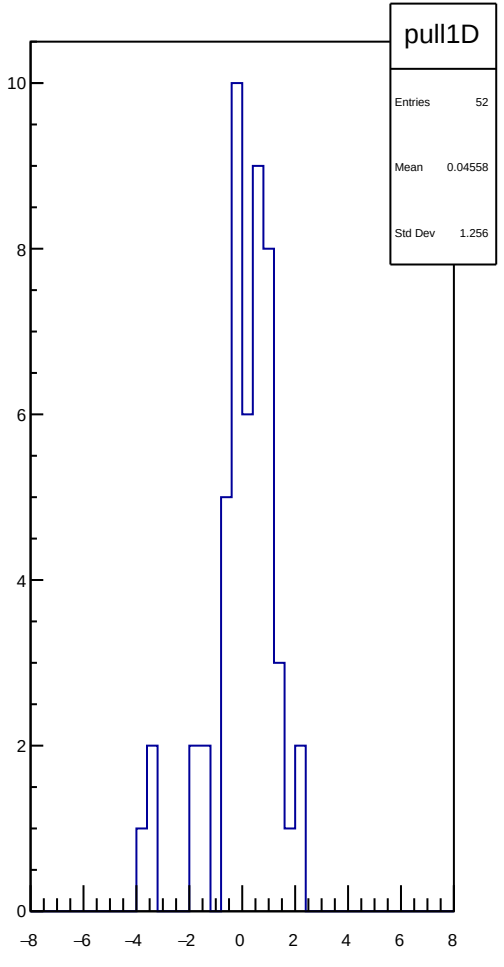

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.57 / 50
p0 −153.2 ± 0.581
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

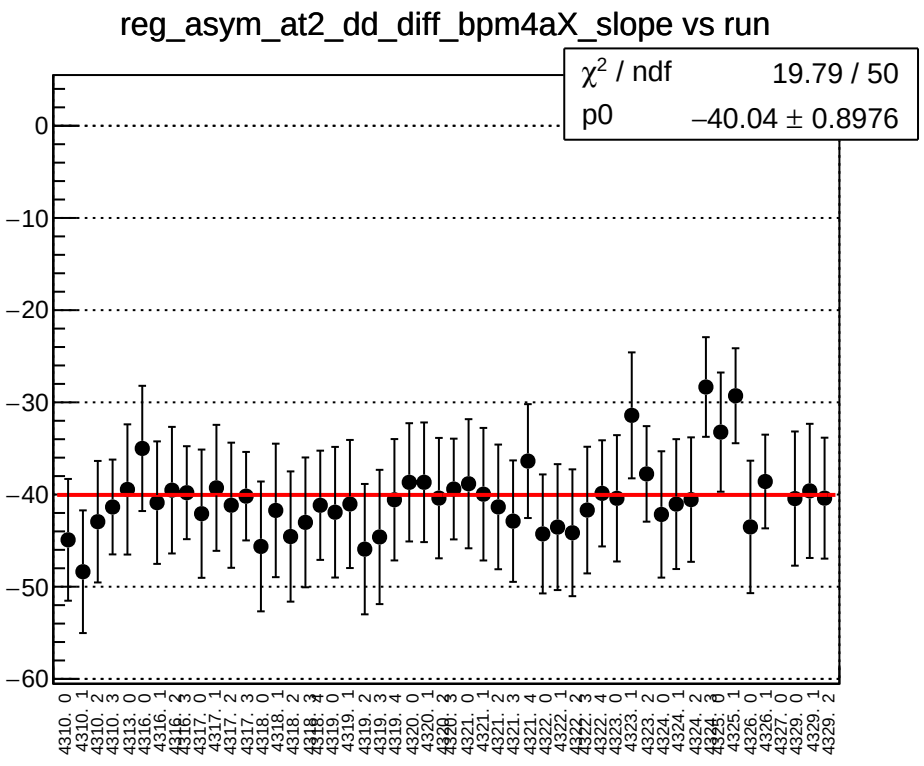

pull1D
Entries 52
Mean −0.04868
Std Dev 0.8219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

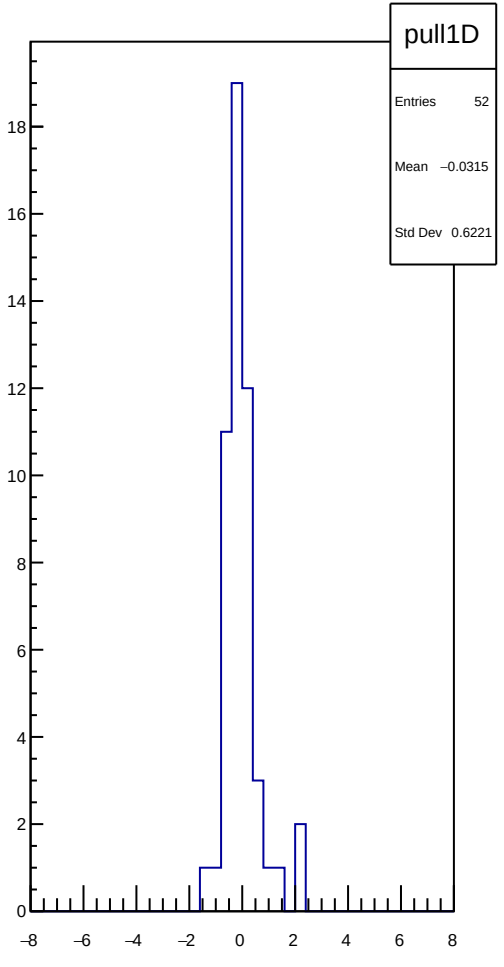

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 227.7 / 50
p0 68.96 ± 3.656
150
100
50
0
−50
−100
−150
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

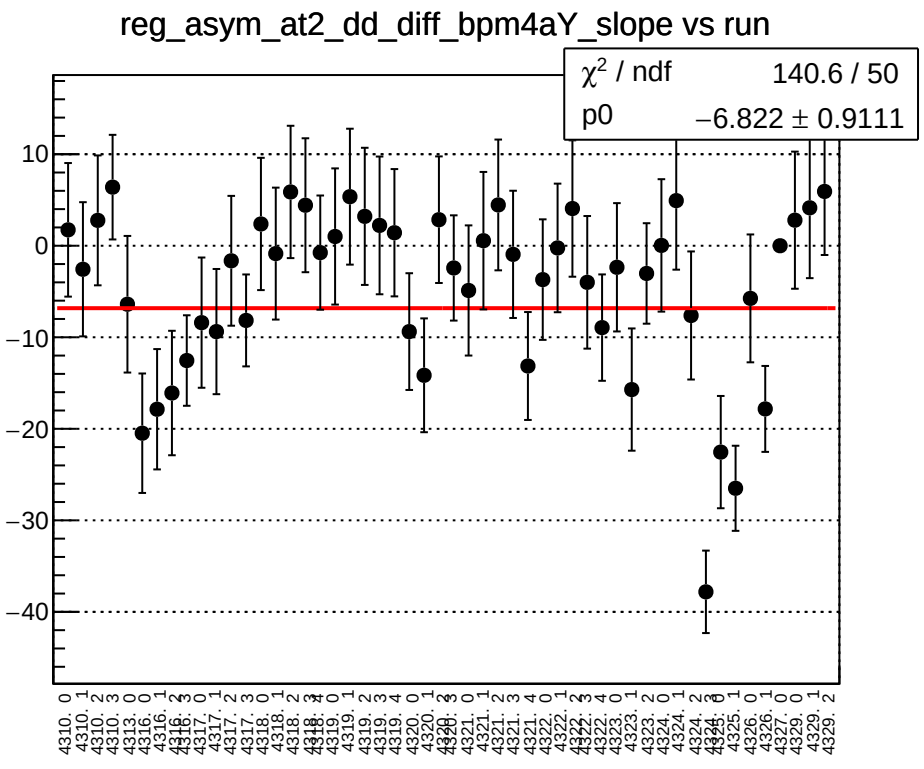

pull1D
Entries 52
Mean 0.3788
Std Dev 1.566
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

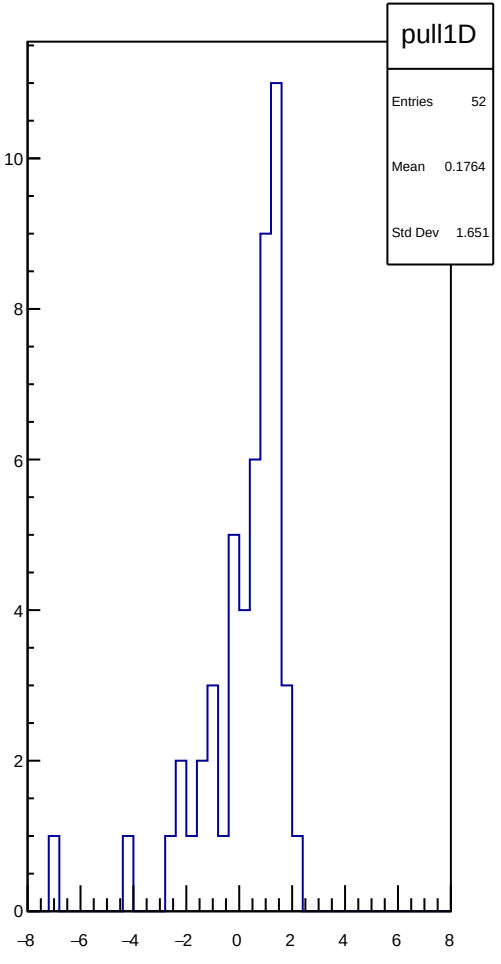

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 80.58 / 50
p0 −369.2 ± 0.7033
0
−50
−100
−150
−200
−250
−300
−350
−400

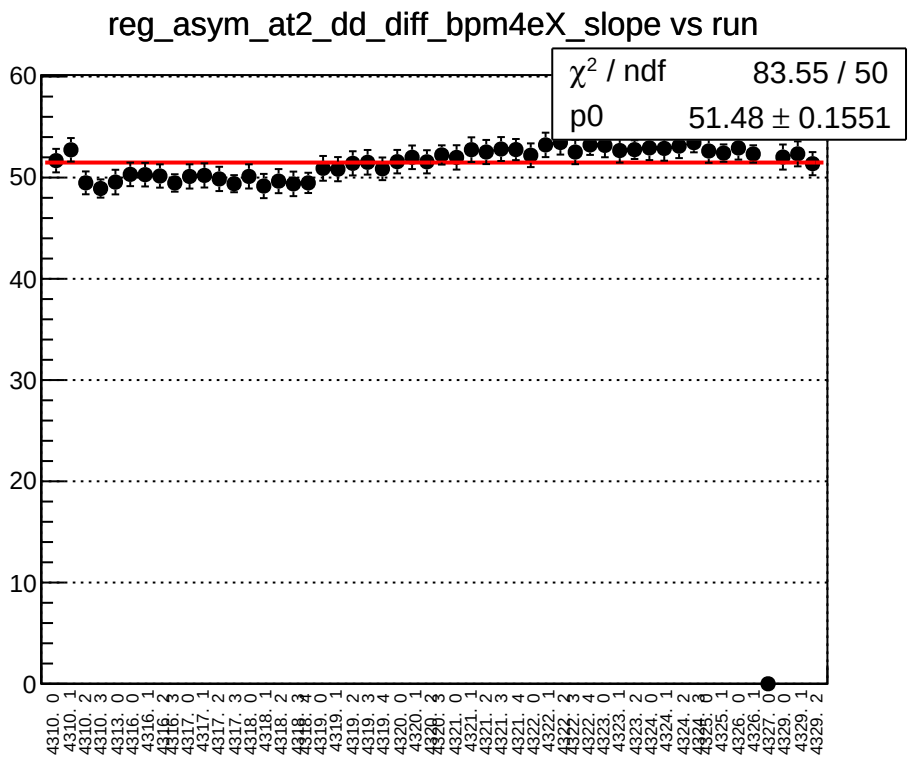

pull1D
Entries 52
Mean 0.04558
Std Dev 1.256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

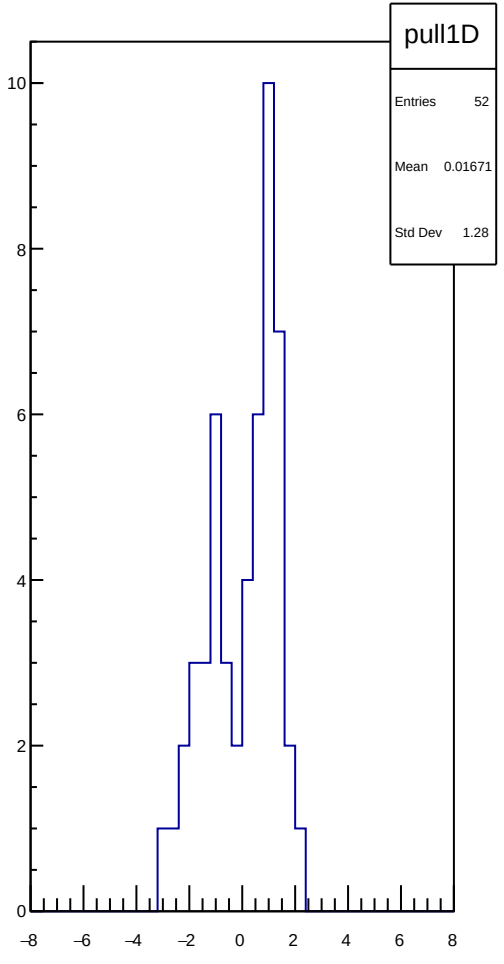

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.79 / 50
p0 −40.04 ± 0.8976
0
−10
−20
−30
−40
−50
−60

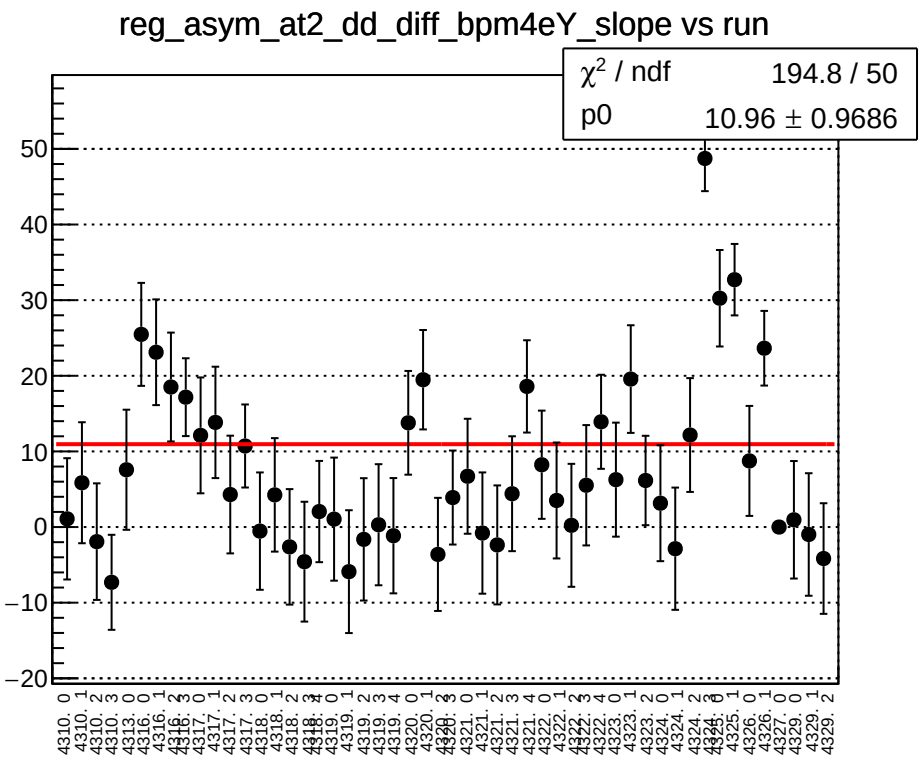

pull1D
Entries 52
Mean −0.0315
Std Dev 0.6221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

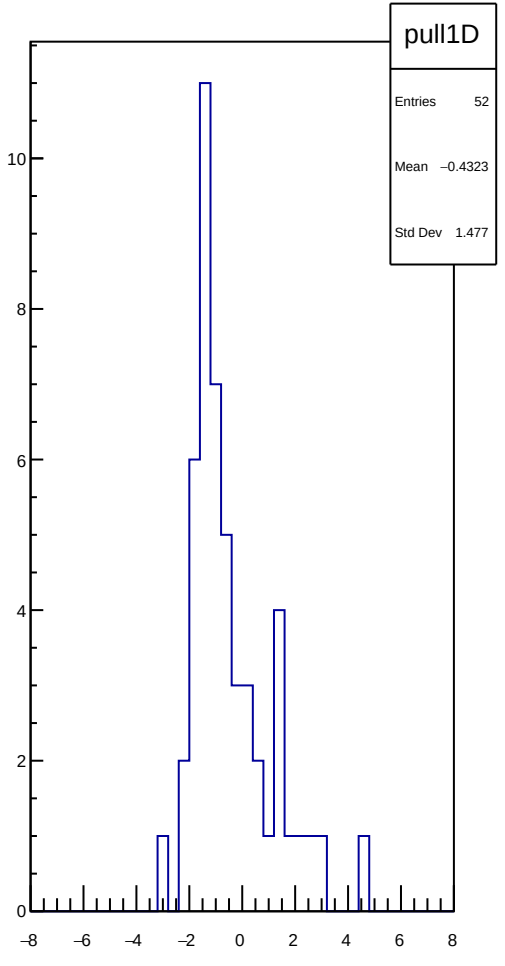

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 140.6 / 50
p0 −6.822 ± 0.9111
10
0
−10
−20
−30
−40


pull1D
Entries 52
Mean 0.1764
Std Dev 1.651
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.55 / 50
p0 51.48 ± 0.1551
60
50
40
30
20
10
0


pull1D
Entries 52
Mean 0.01671
Std Dev 1.28
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 194.8 / 50
p0 10.96 ± 0.9686
50
40
30
20
10
0
−10
−20


pull1D
Entries 52
Mean −0.4323
Std Dev 1.477
10
8
6
4
2
0
−8
−6
−4
−2
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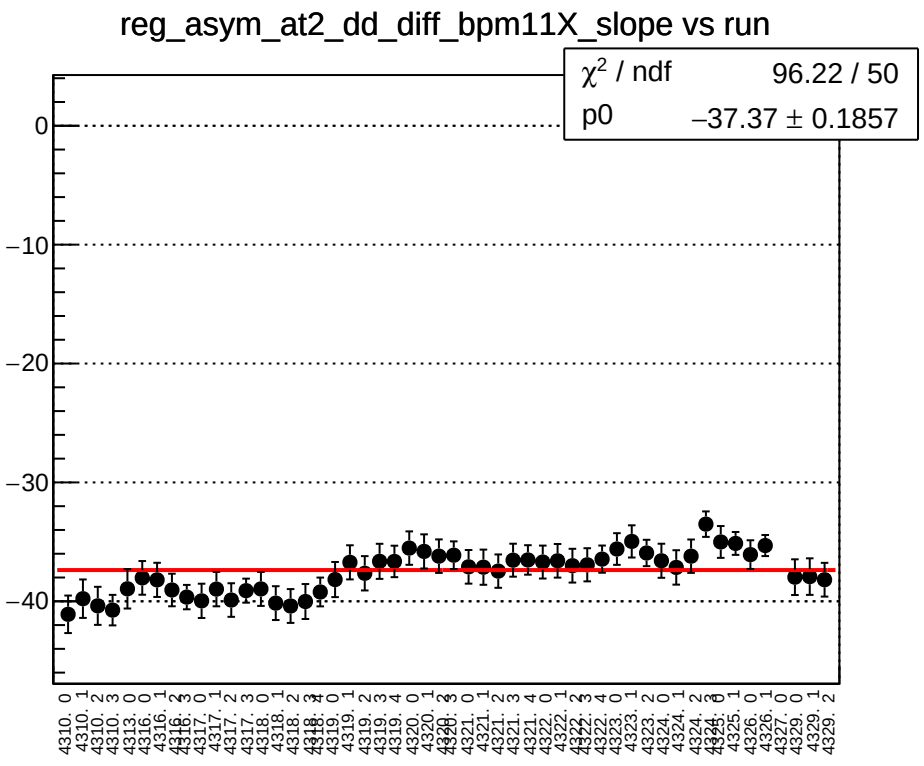
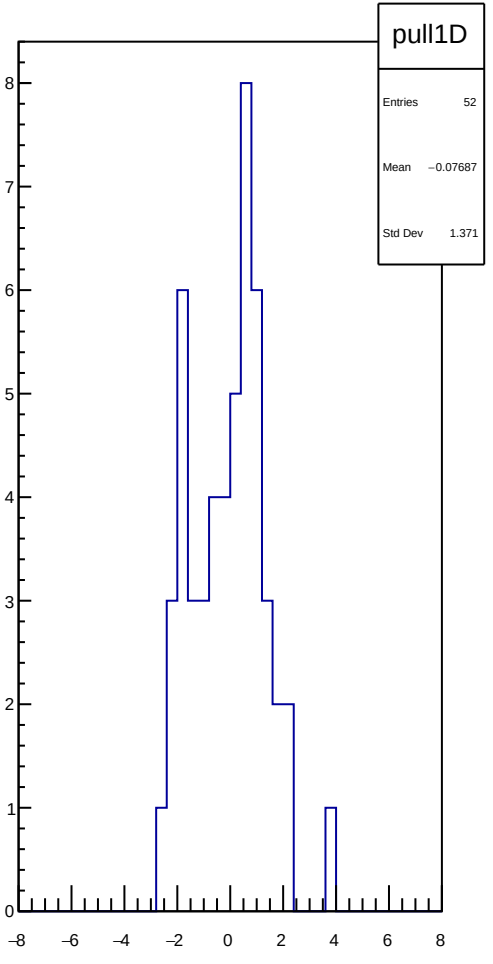
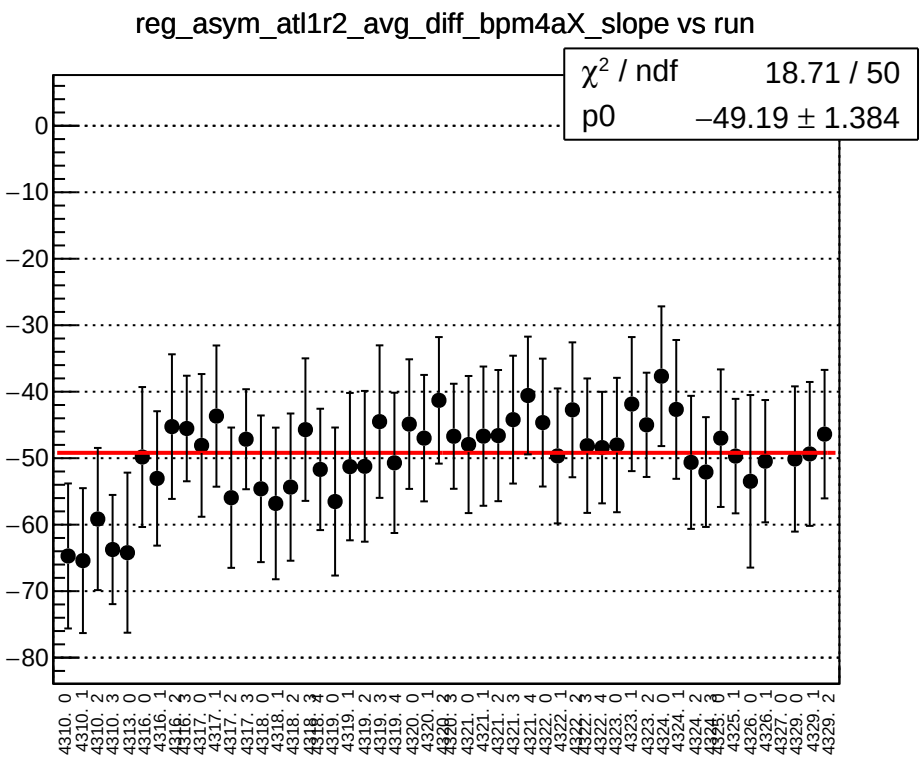
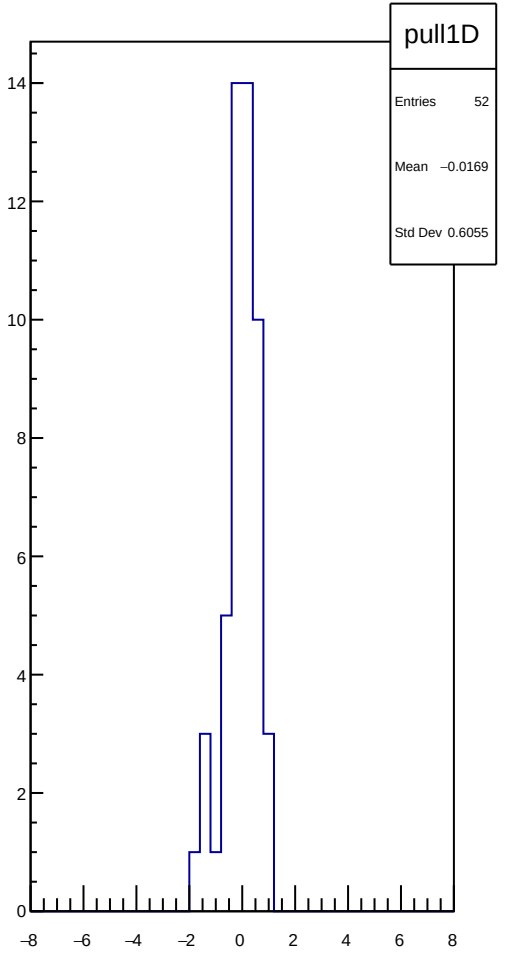
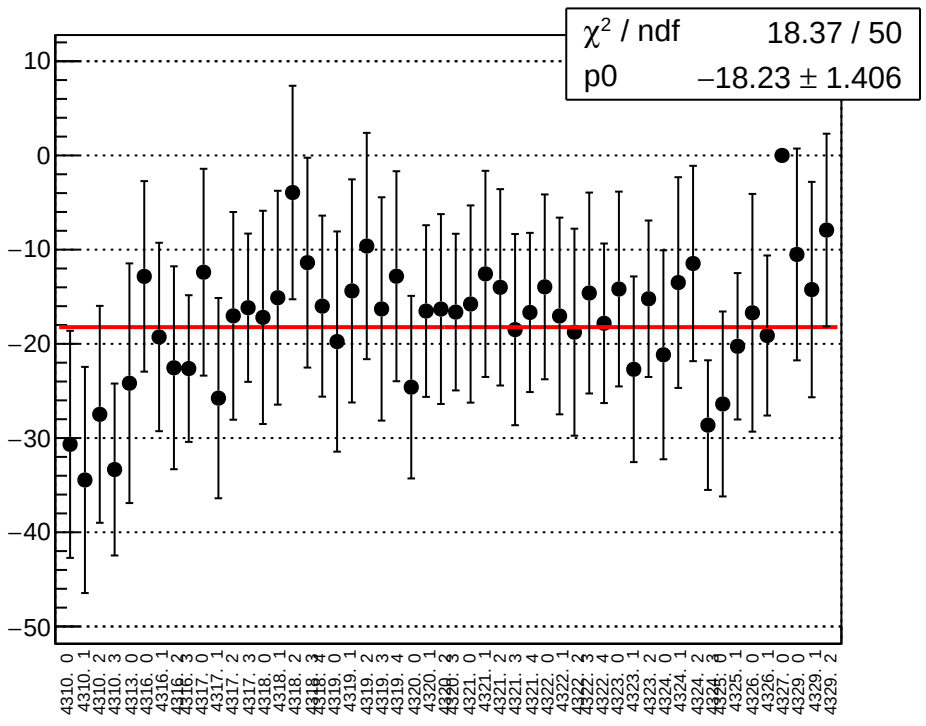
2
4
6
8

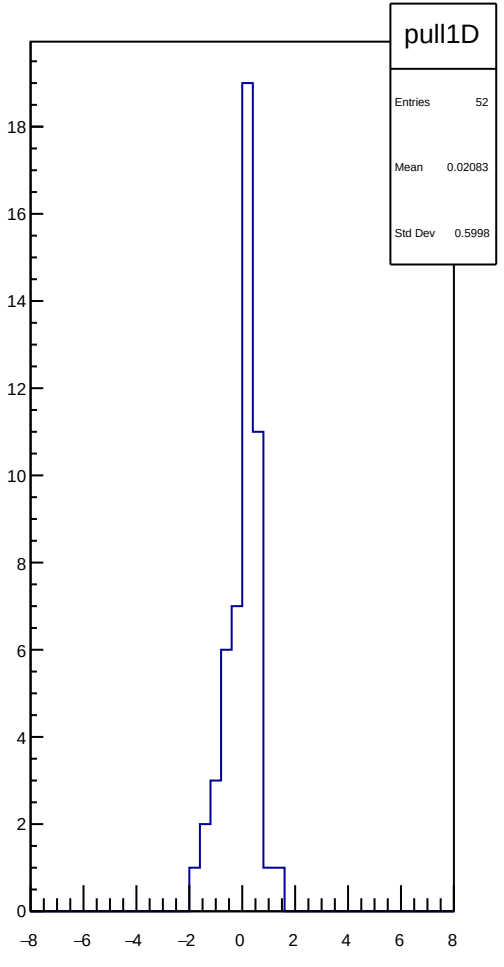

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 96.22 / 50
p0 −37.37 ± 0.1857
0
−10
−20
−30
−40

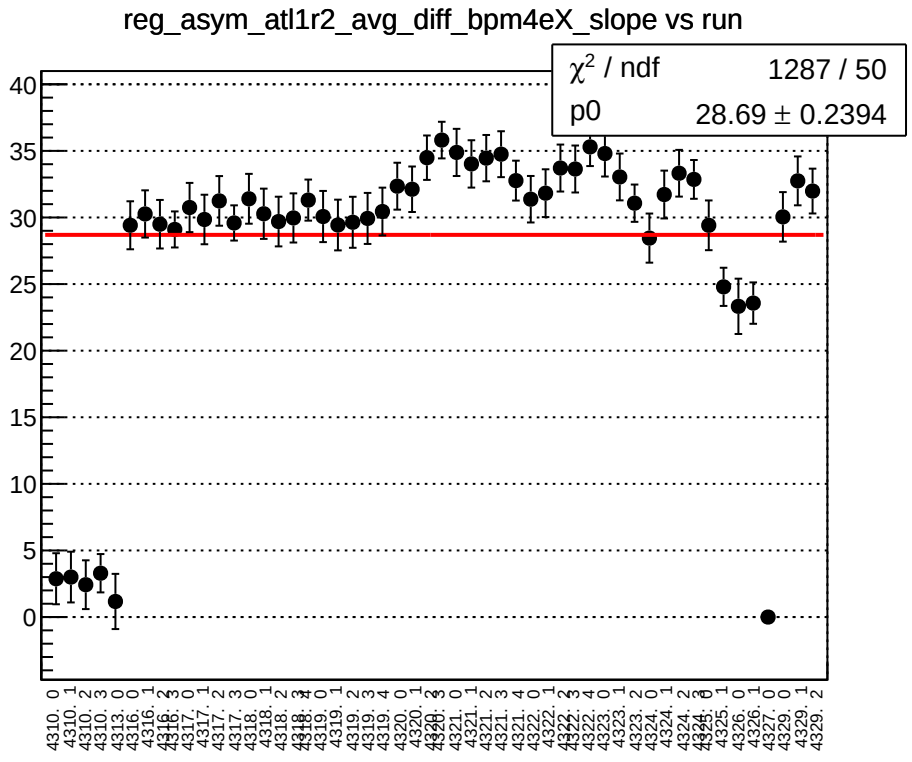

pull1D
Entries 52
Mean −0.07687
Std Dev 1.371
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

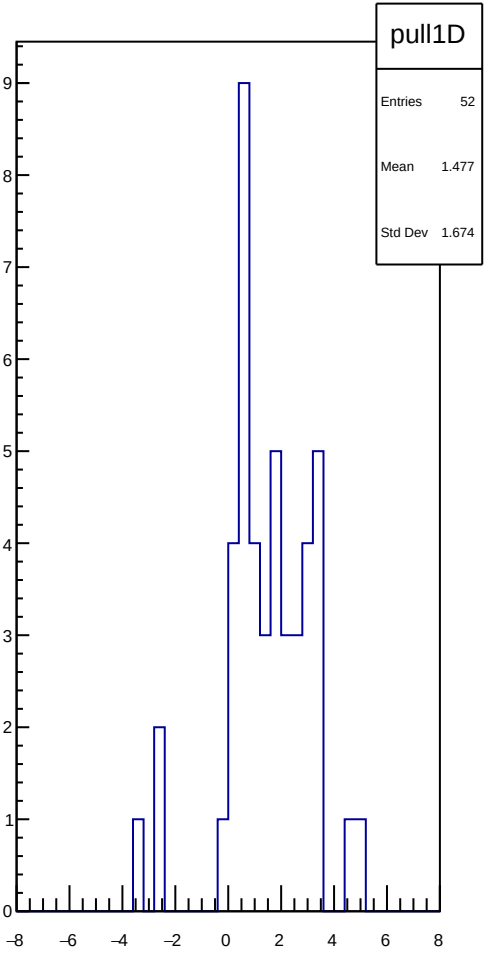

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.71 / 50
p0 −49.19 ± 1.384
0
−10
−20
−30
−40
−50
−60
−70
−80
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

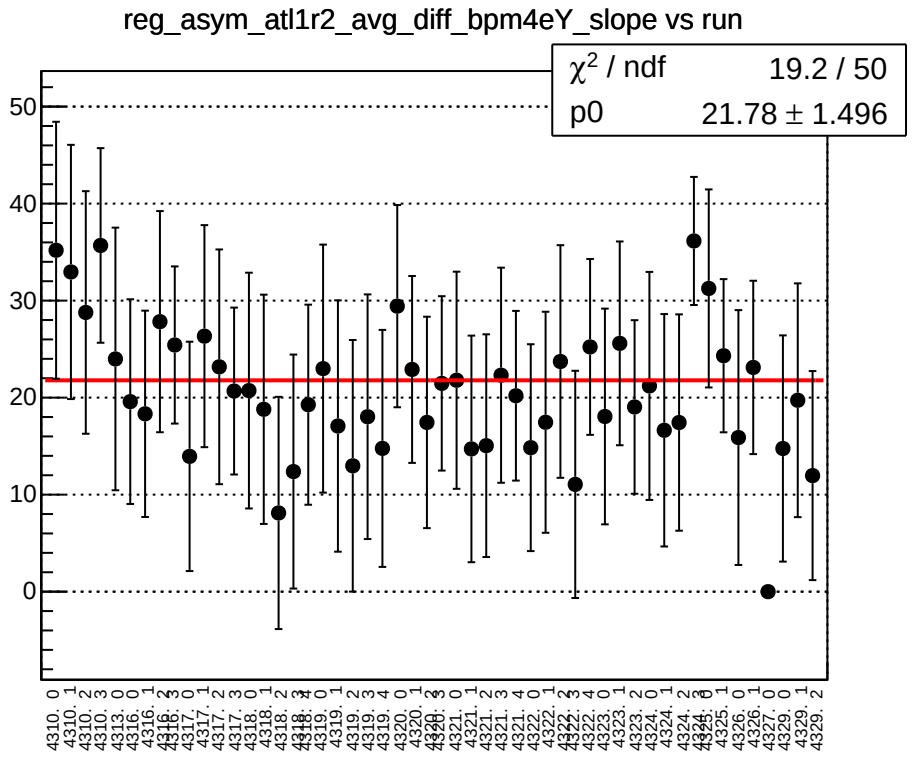

pull1D
Entries 52
Mean −0.0169
Std Dev 0.6055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

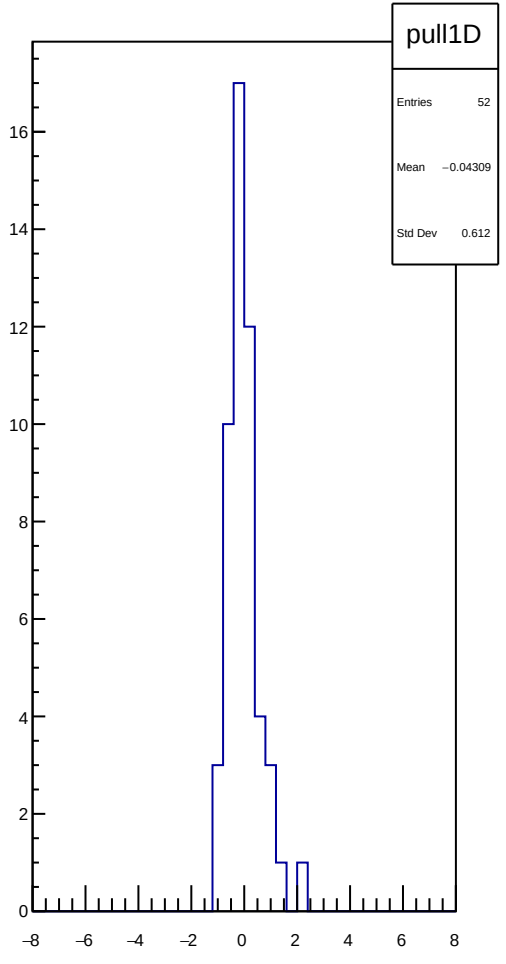

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.37 / 50
p0 −18.23 ± 1.406
10
0
−10
−20
−30
−40
−50

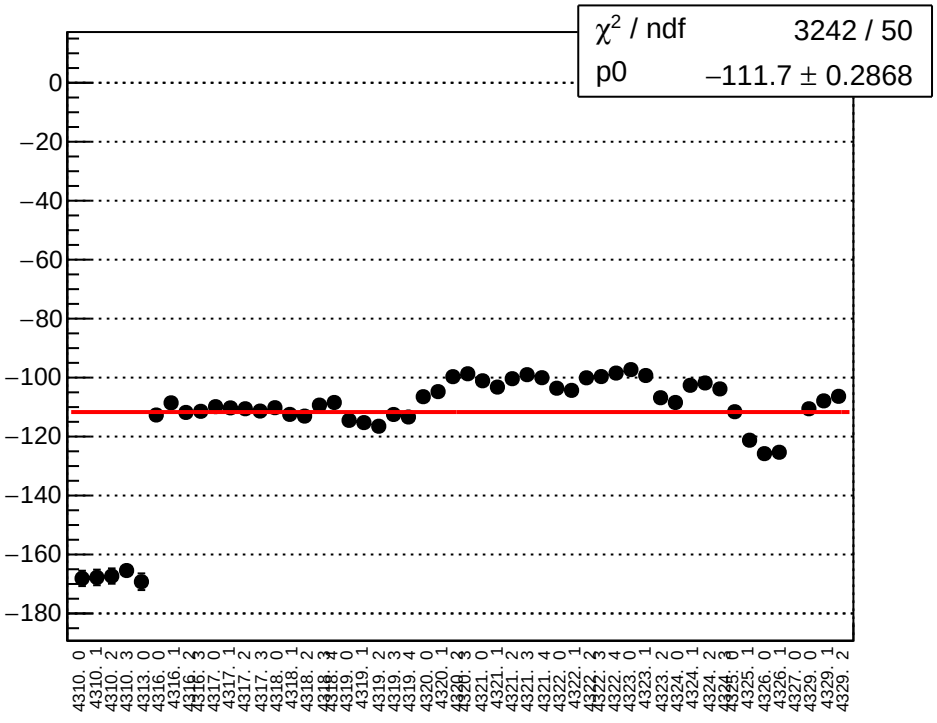

pull1D
Entries 52
Mean 0.02083
Std Dev 0.5998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

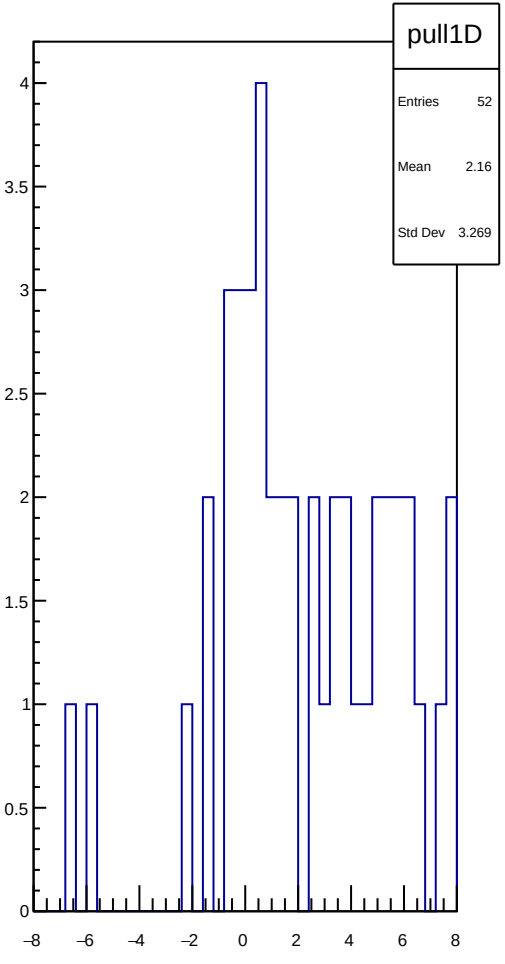

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1287 / 50
p0 28.69 ± 0.2394

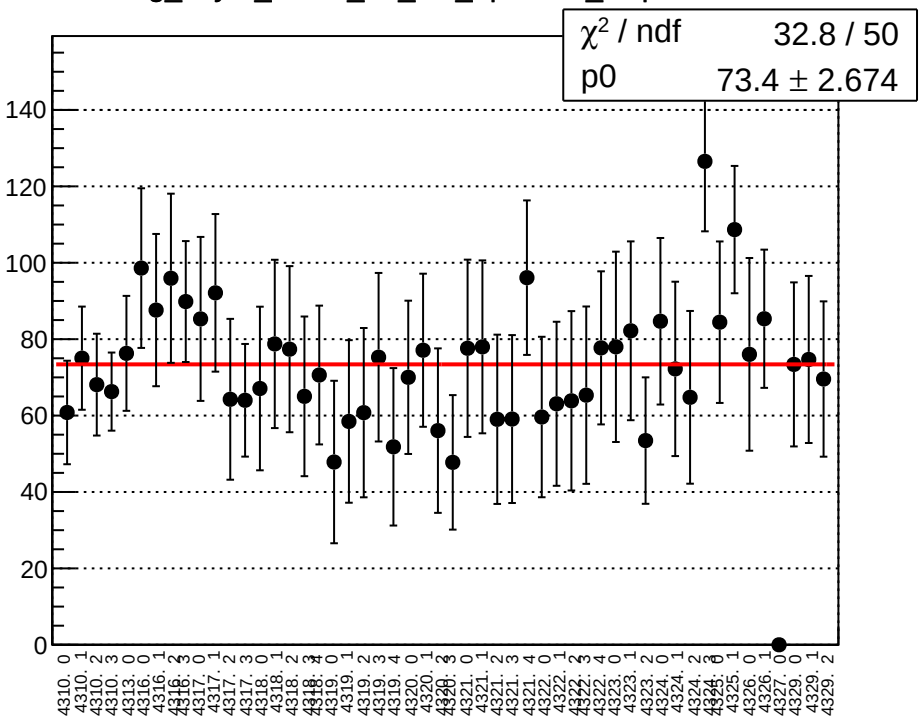

pull1D
Entries 52
Mean 1.477
Std Dev 1.674

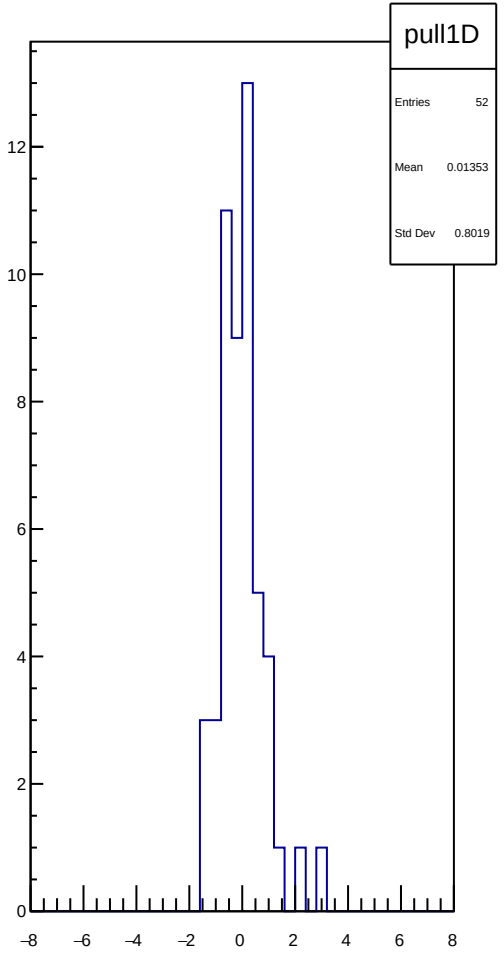

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.2 / 50
p0 21.78 ± 1.496
50
40
30
20
10
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

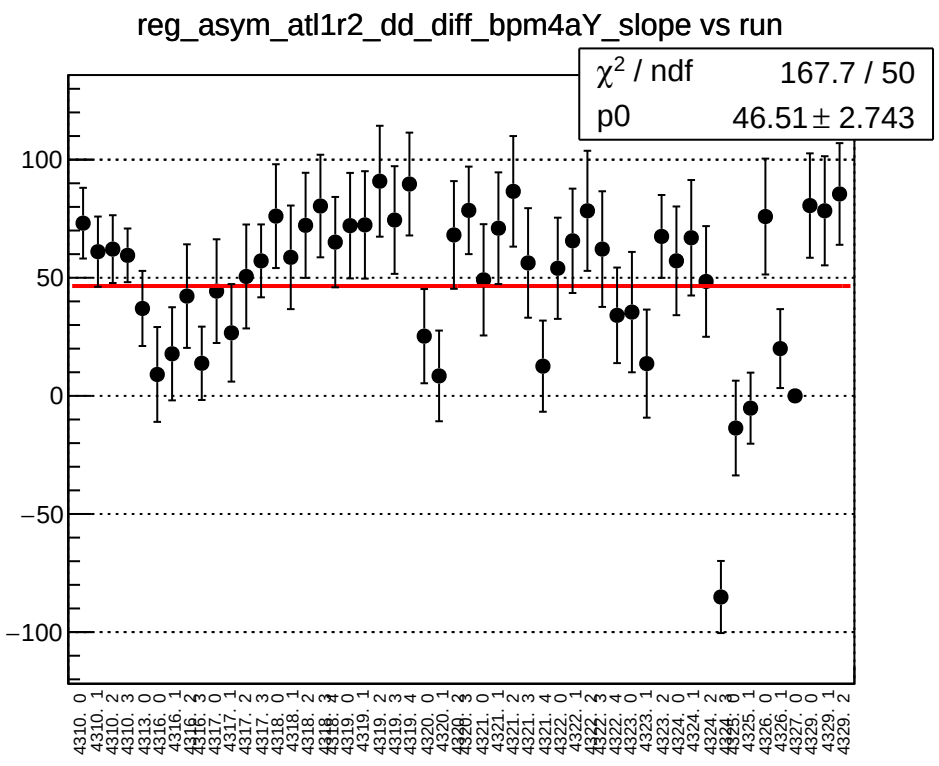

pull1D
Entries 52
Mean −0.04309
Std Dev 0.612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

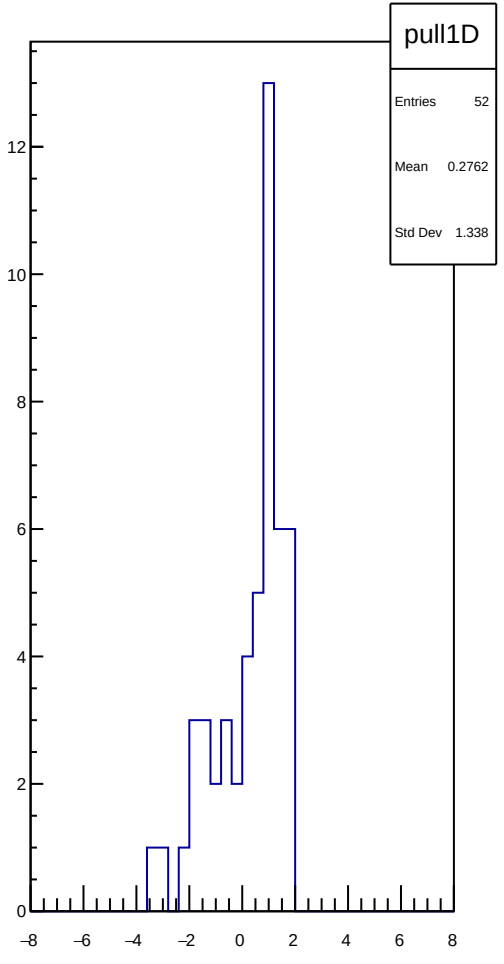

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 3242 / 50
p0 −111.7 ± 0.2868
0
−20
−40
−60
−80
−100
−120
−140
−160
−180


pull1D
Entries 52
Mean 2.16
Std Dev 3.269
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.8 / 50
p0 73.4 ± 2.674
140
120
100
80
60
40
20
0


pull1D
Entries 52
Mean 0.01353
Std Dev 0.8019
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 167.7 / 50
p0 46.51 ± 2.743
100
50
0
−50
−100


pull1D
Entries 52
Mean 0.2762
Std Dev 1.338
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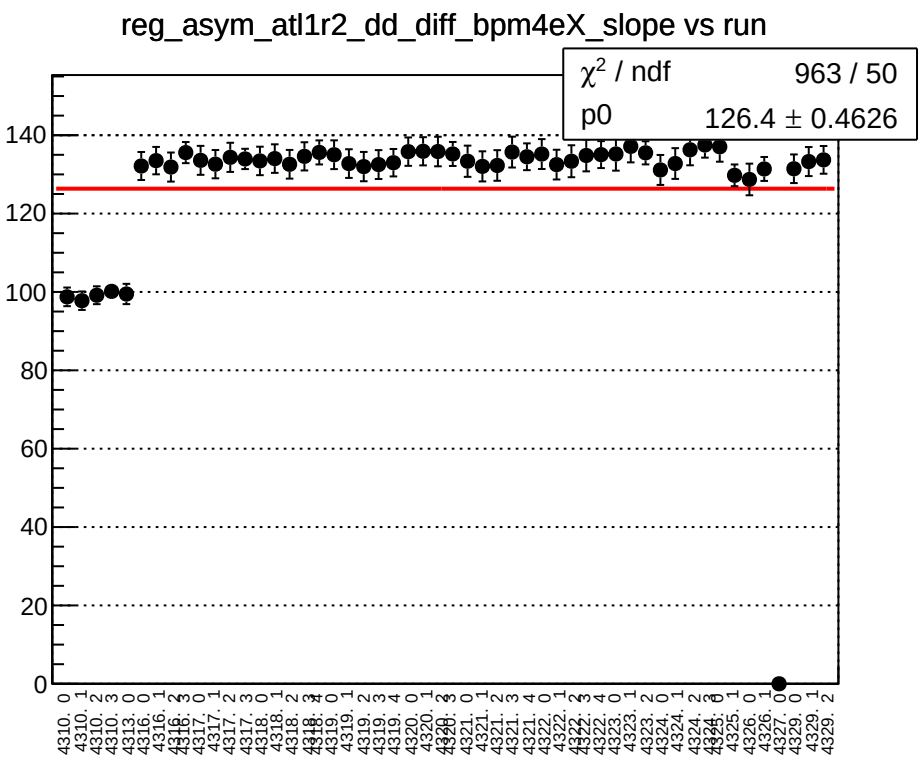
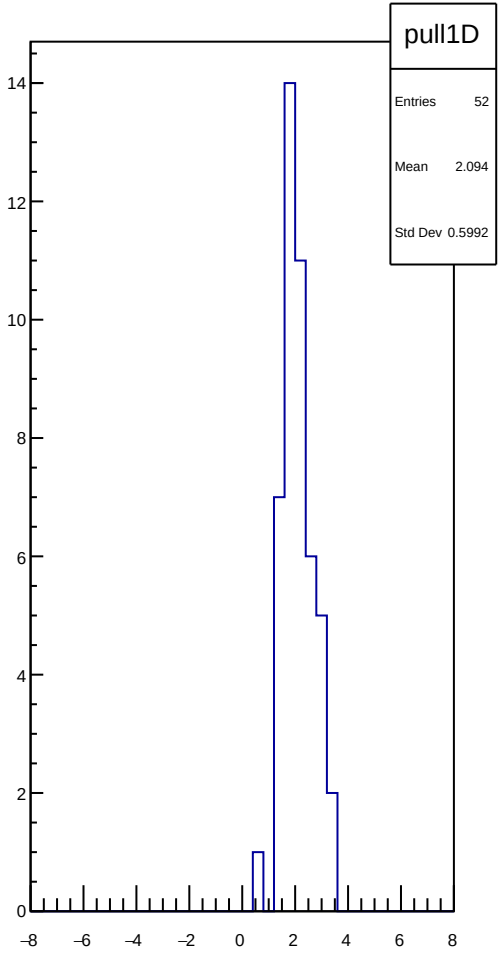
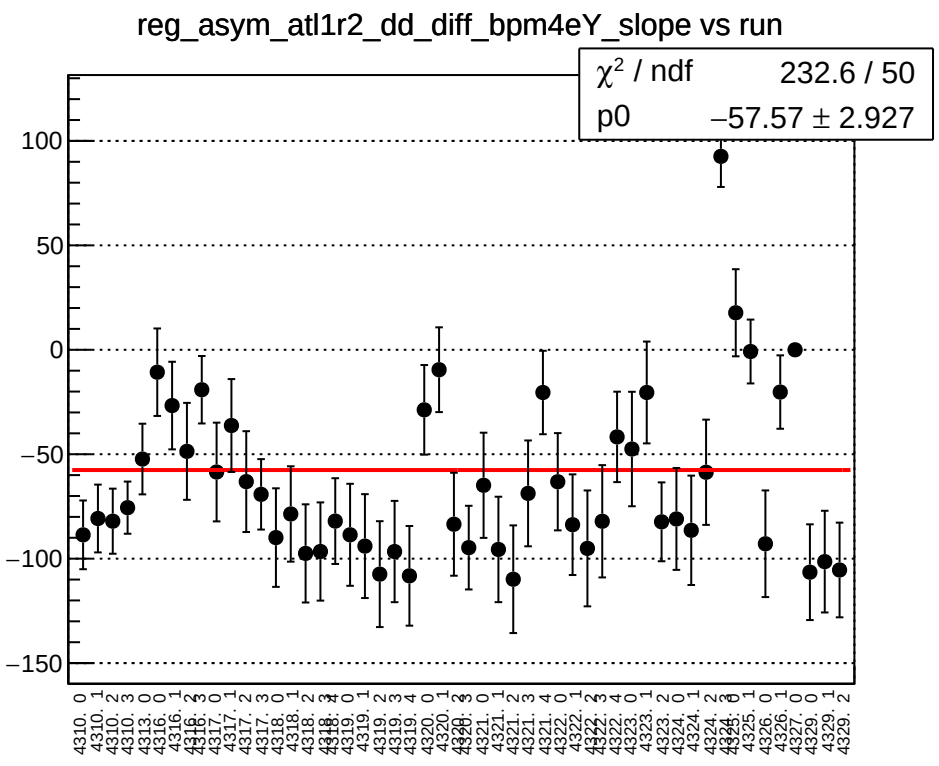
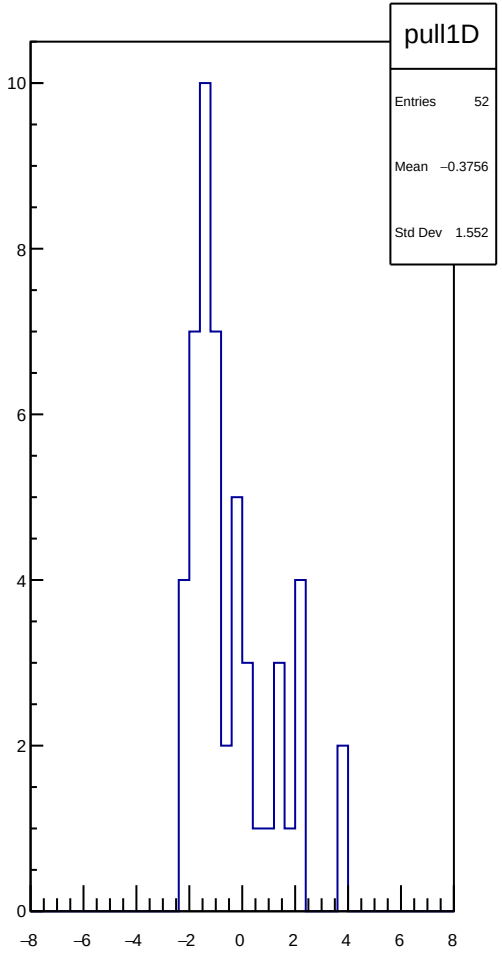
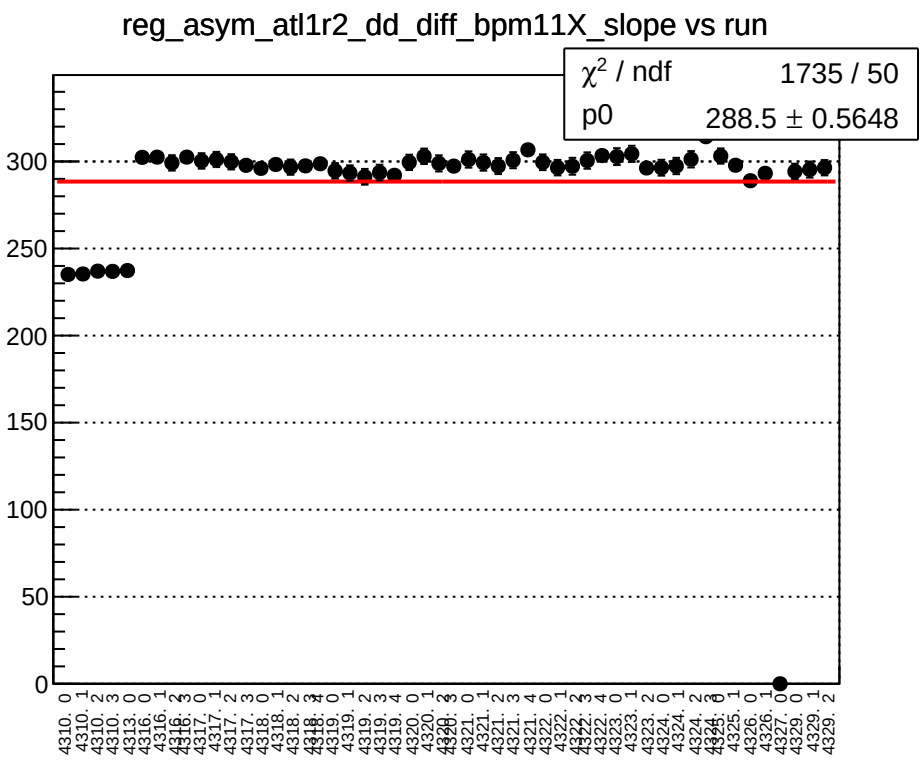
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

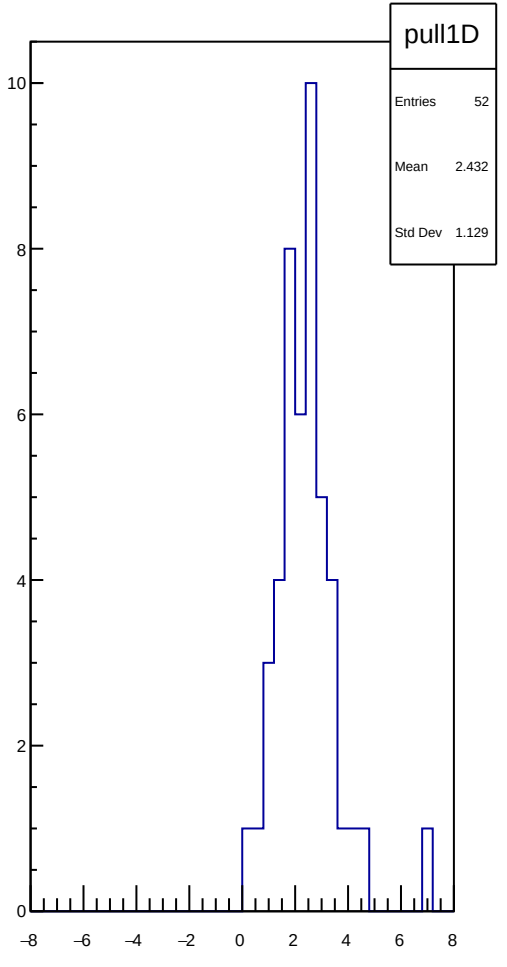

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 963 / 50
p0 126.4 ± 0.4626
140
120
100
80
60
40
20
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

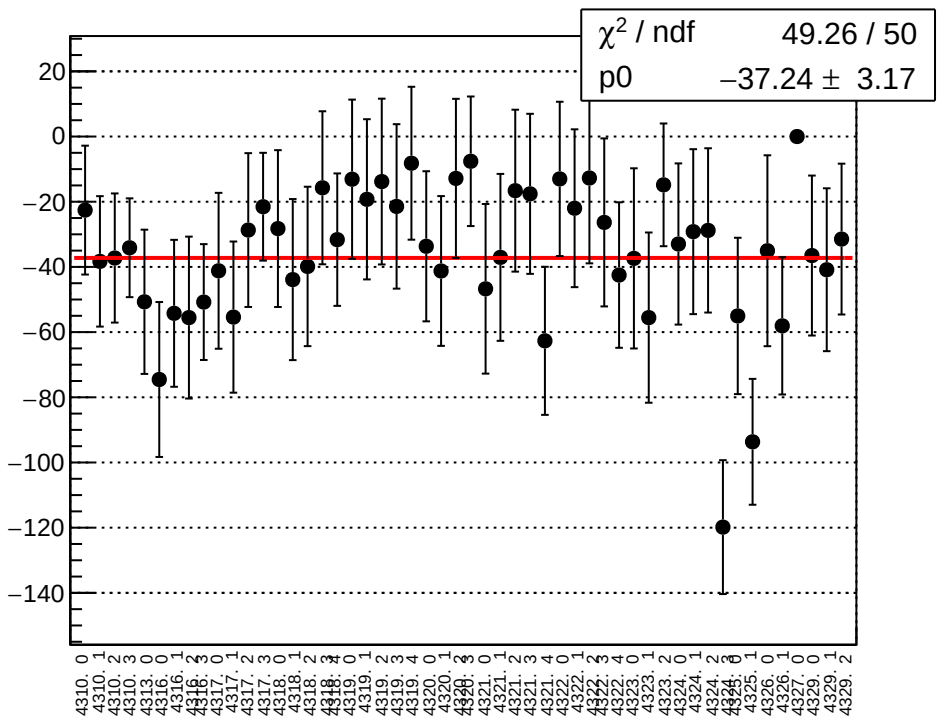

pull1D
Entries 52
Mean 2.094
Std Dev 0.5992
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

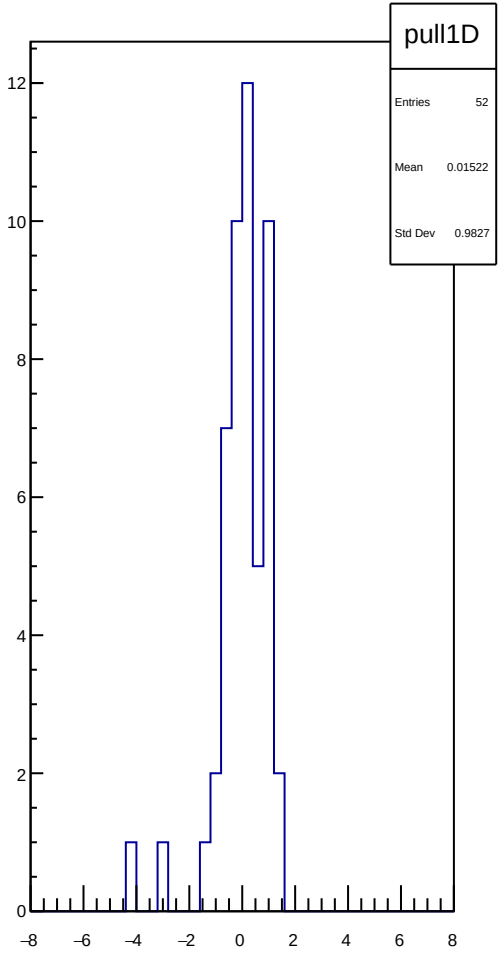

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 232.6 / 50
p0 −57.57 ± 2.927
100
50
0
−50
−100
−150

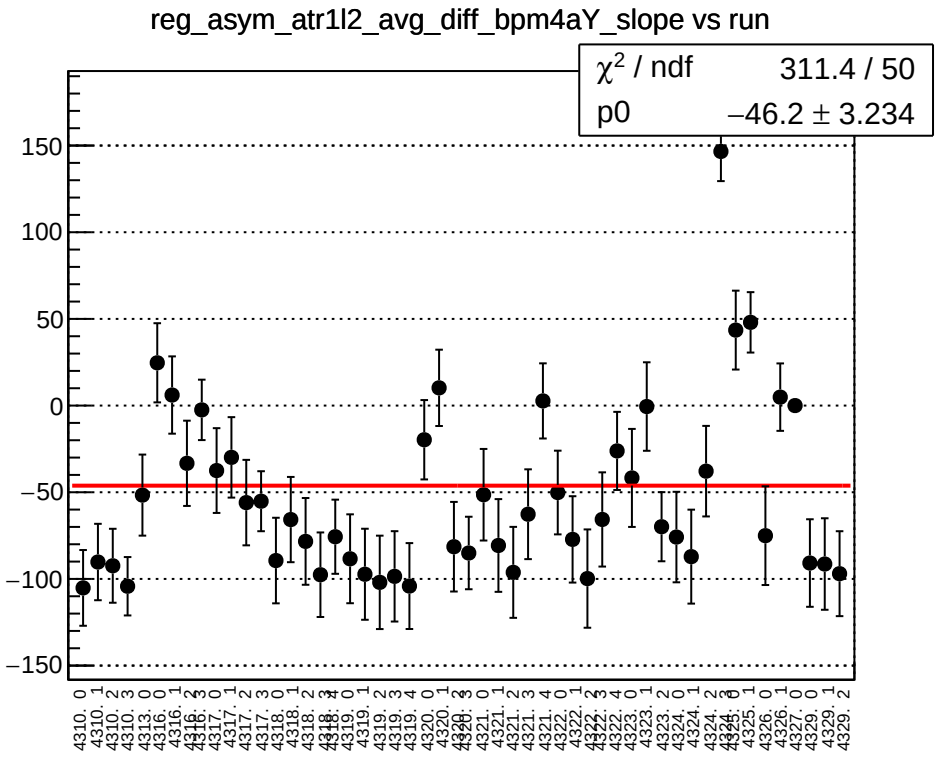

pull1D
Entries 52
Mean −0.3756
Std Dev 1.552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

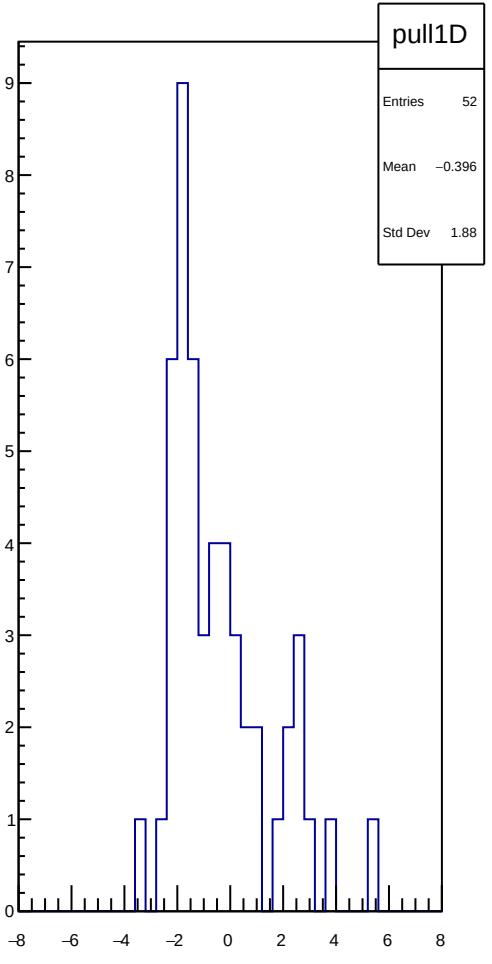

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 1735 / 50
p0 288.5 ± 0.5648
300
250
200
150
100
50
0

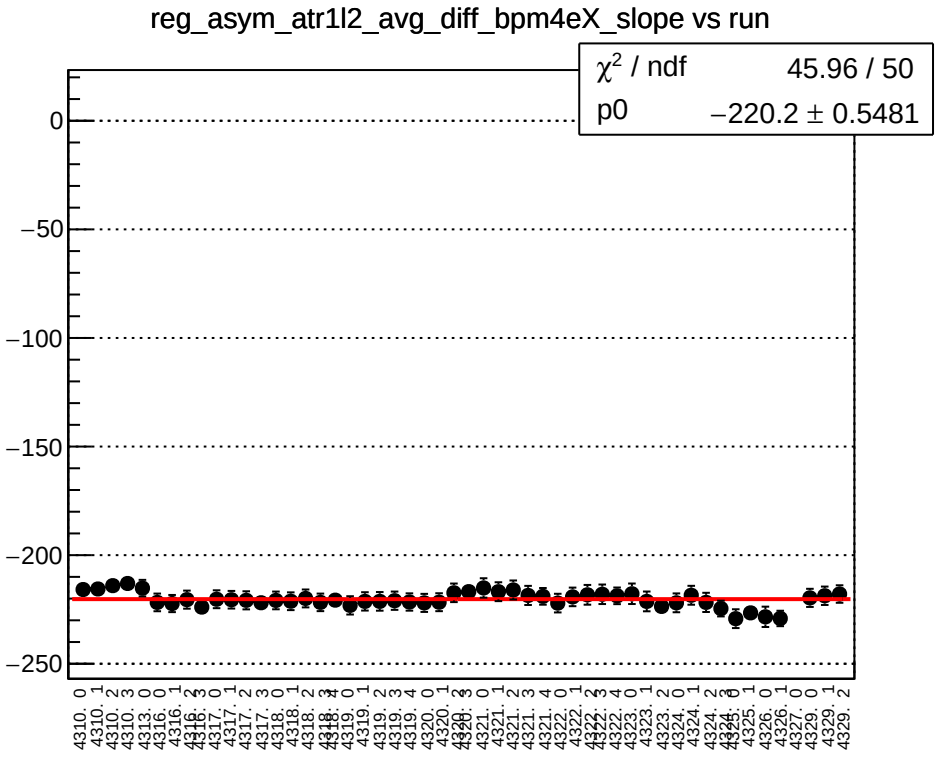

pull1D
Entries 52
Mean 2.432
Std Dev 1.129
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

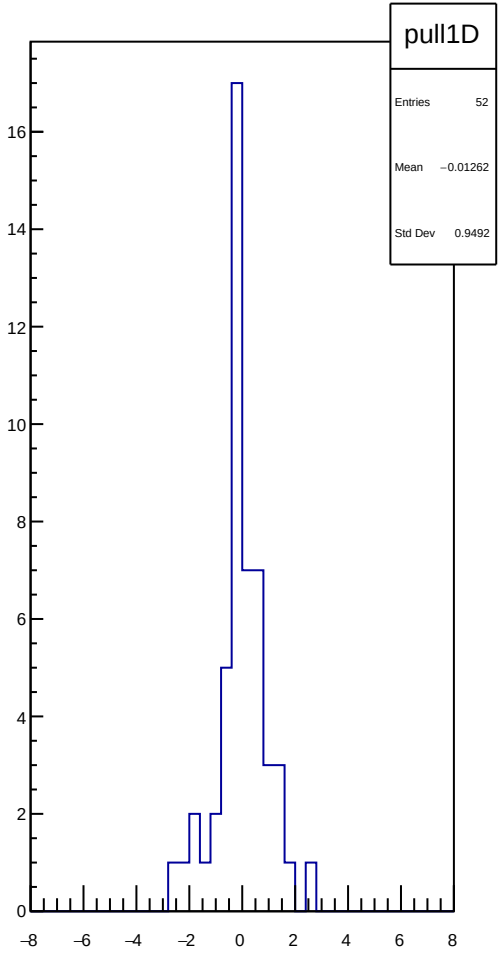

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 49.26 / 50
p0 −37.24 ± 3.17
20
0
−20
−40
−60
−80
−100
−120
−140
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

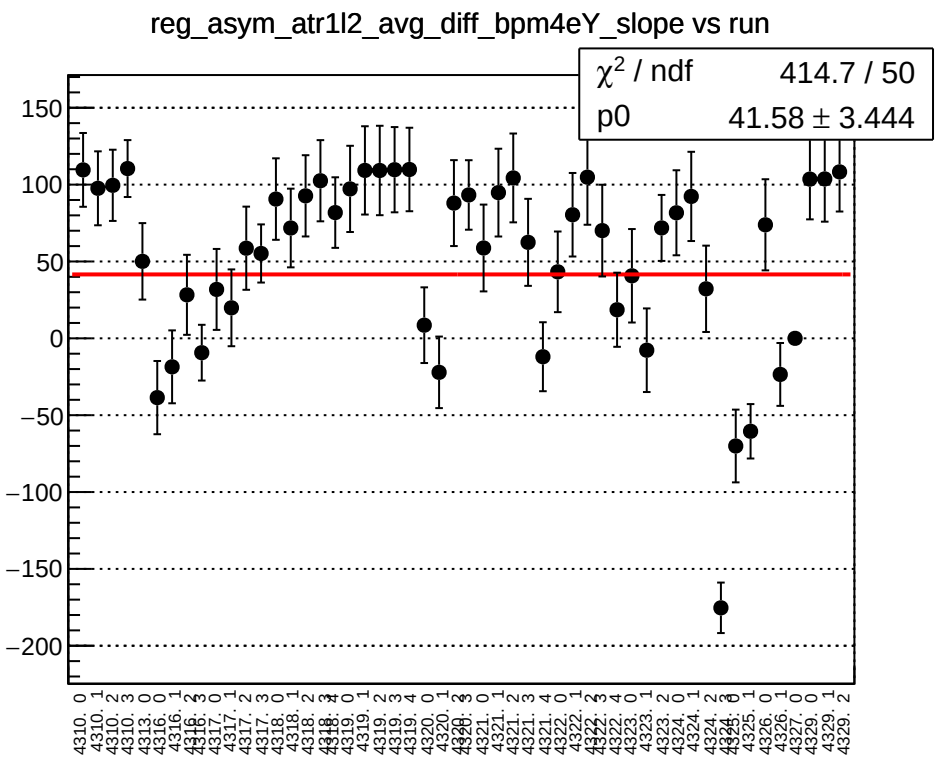

pull1D
Entries 52
Mean 0.01522
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

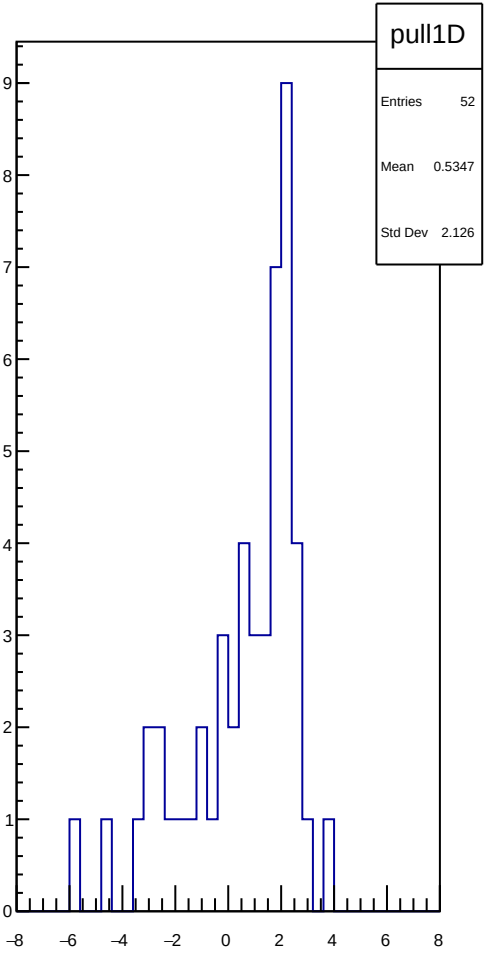

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 311.4 / 50
p0 −46.2 ± 3.234
150
100
50
0
−50
−100
−150

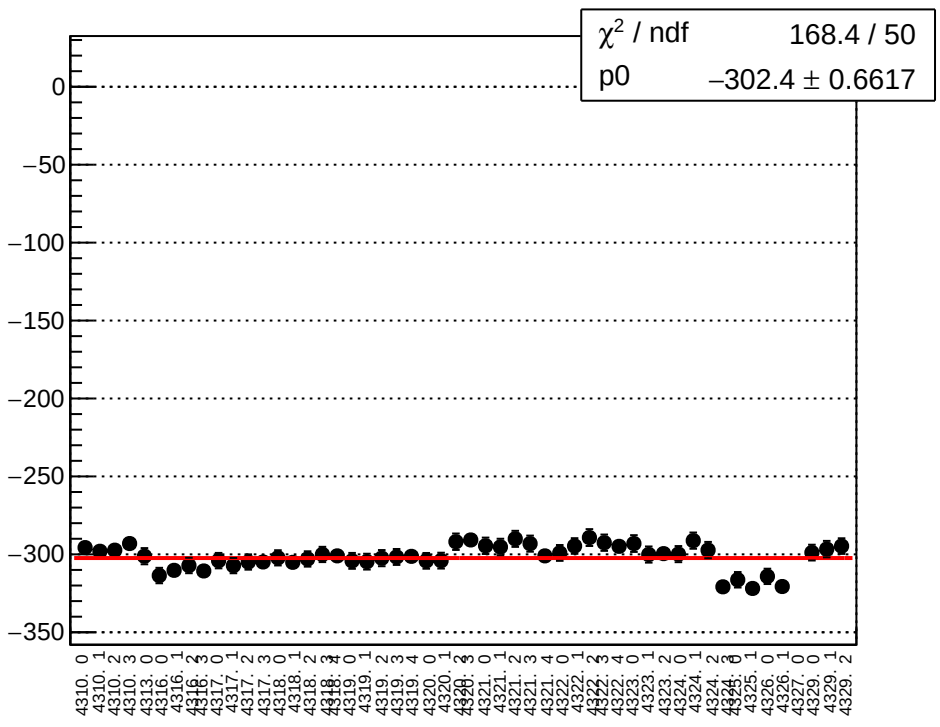

pull1D
Entries 52
Mean −0.396
Std Dev 1.88
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

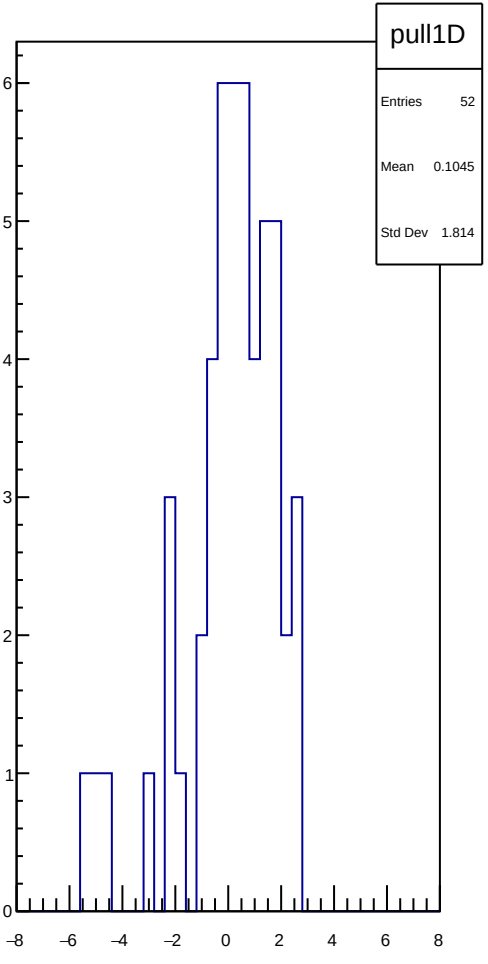

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.96 / 50
p0 −220.2 ± 0.5481
0
−50
−100
−150
−200
−250

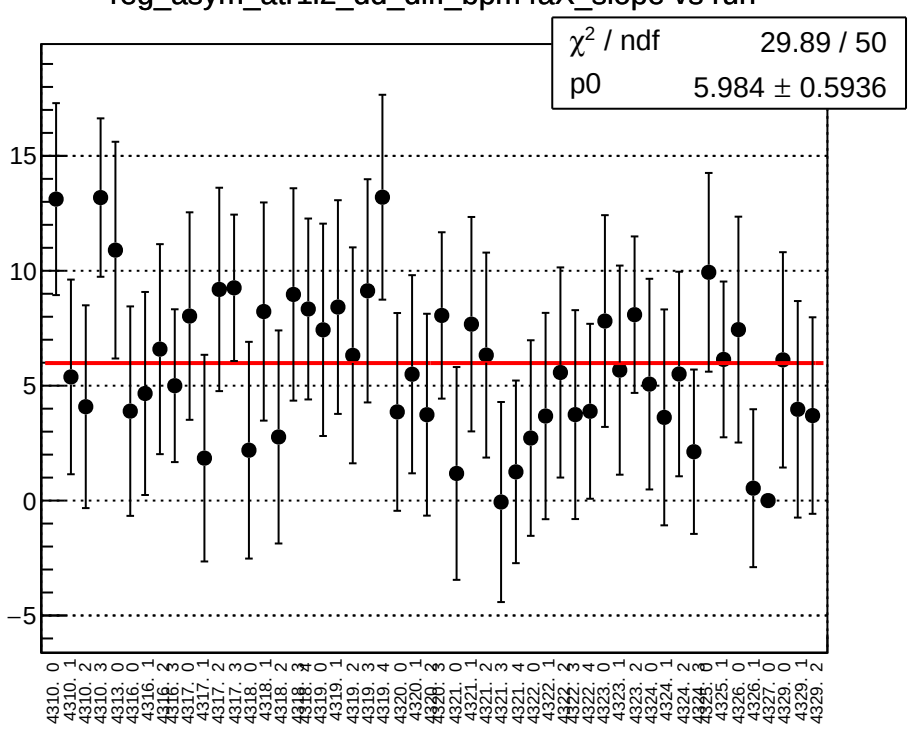

pull1D
Entries 52
Mean −0.01262
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 414.7 / 50
p0 41.58 ± 3.444
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 52
Mean 0.5347
Std Dev 2.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 168.4 / 50
p0 −302.4 ± 0.6617
0
−50
−100
−150
−200
−250
−300
−350


pull1D
Entries 52
Mean 0.1045
Std Dev 1.814
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.89 / 50
p0 5.984 ± 0.5936
15
10
5
0
−5
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
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4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
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4325. 0
4325. 1
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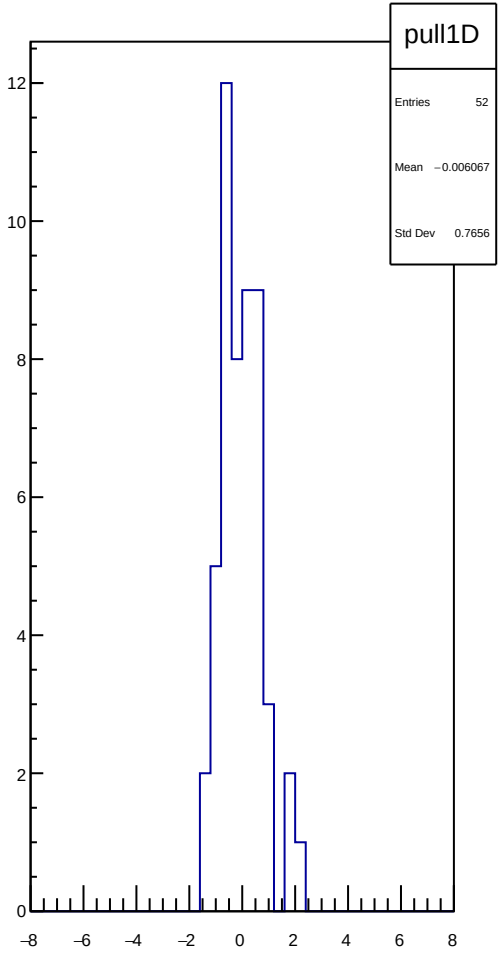
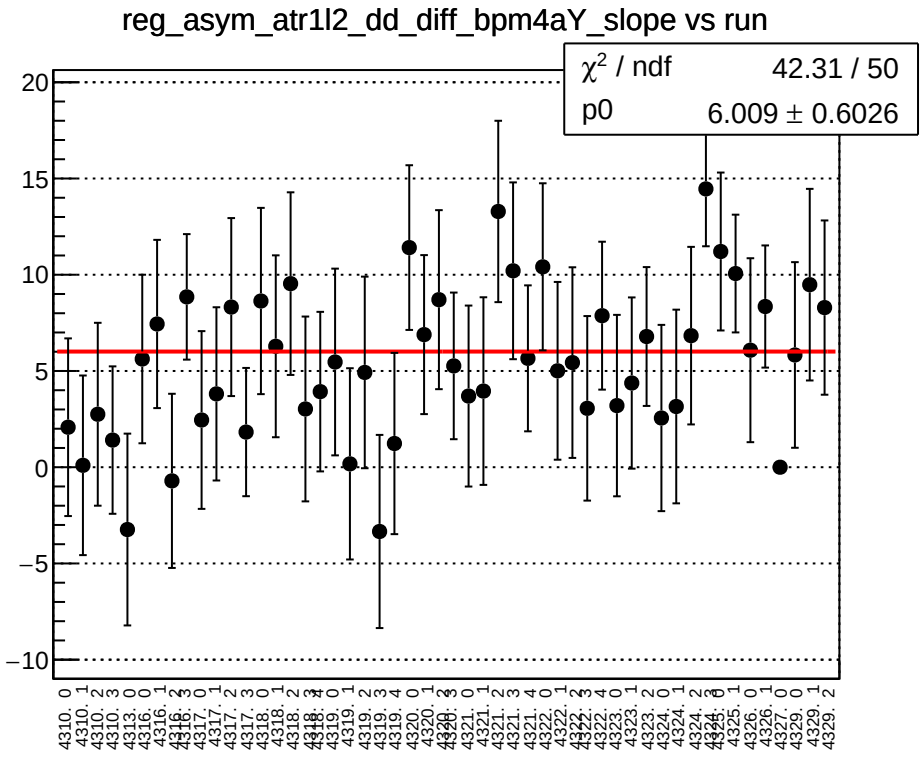
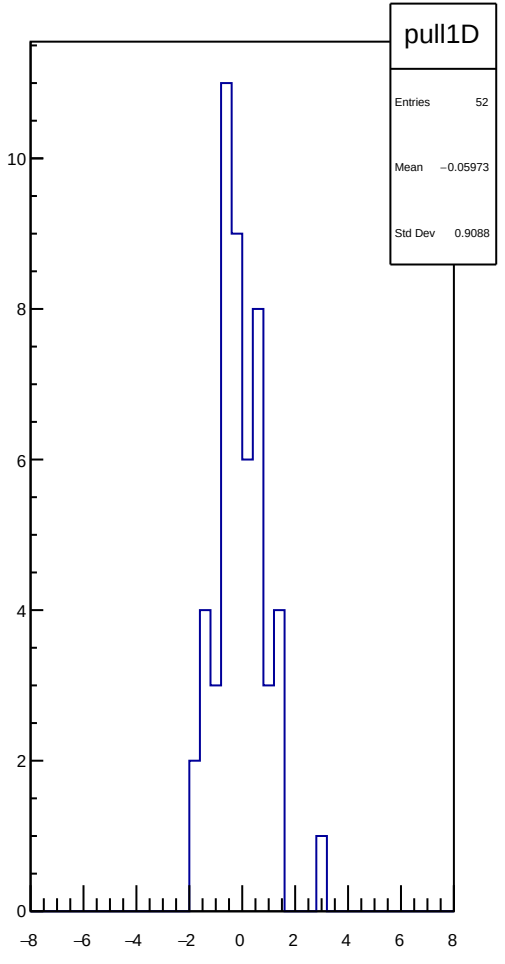
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.006067
Std Dev 0.7656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.31 / 50
p0 6.009 ± 0.6026
20
15
10
5
0
−5
−10


pull1D
Entries 52
Mean −0.05973
Std Dev 0.9088
10
8
6
4
2
0
−8
−6
−4
−2
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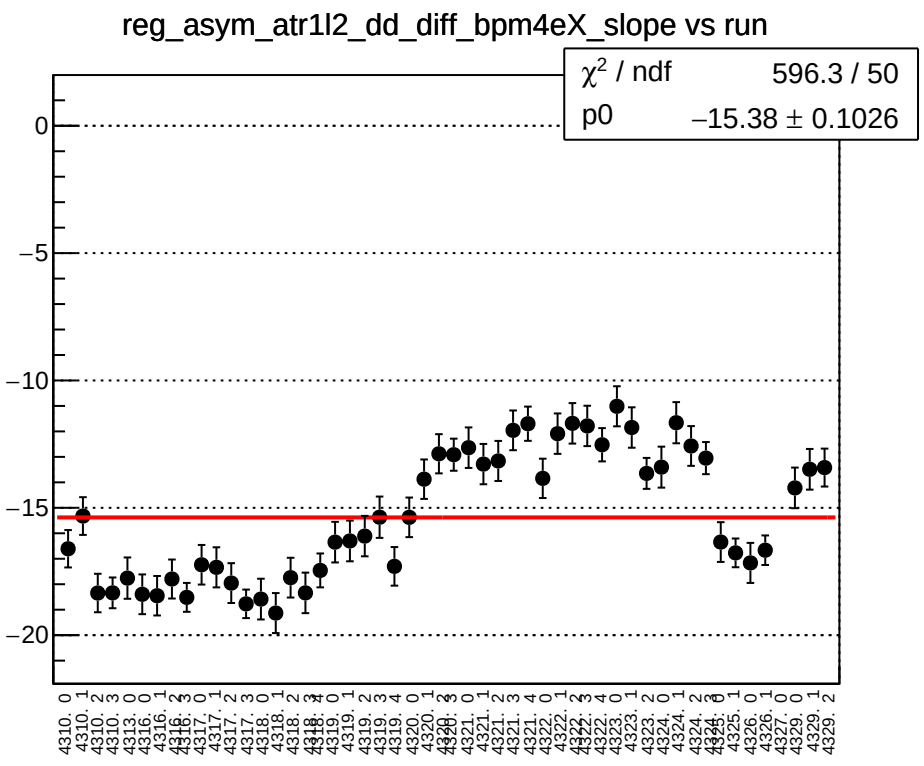
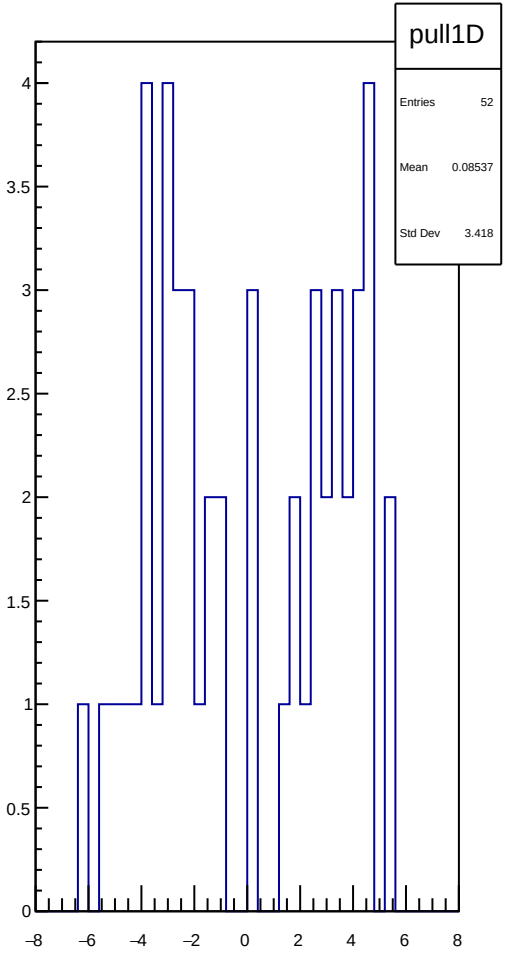
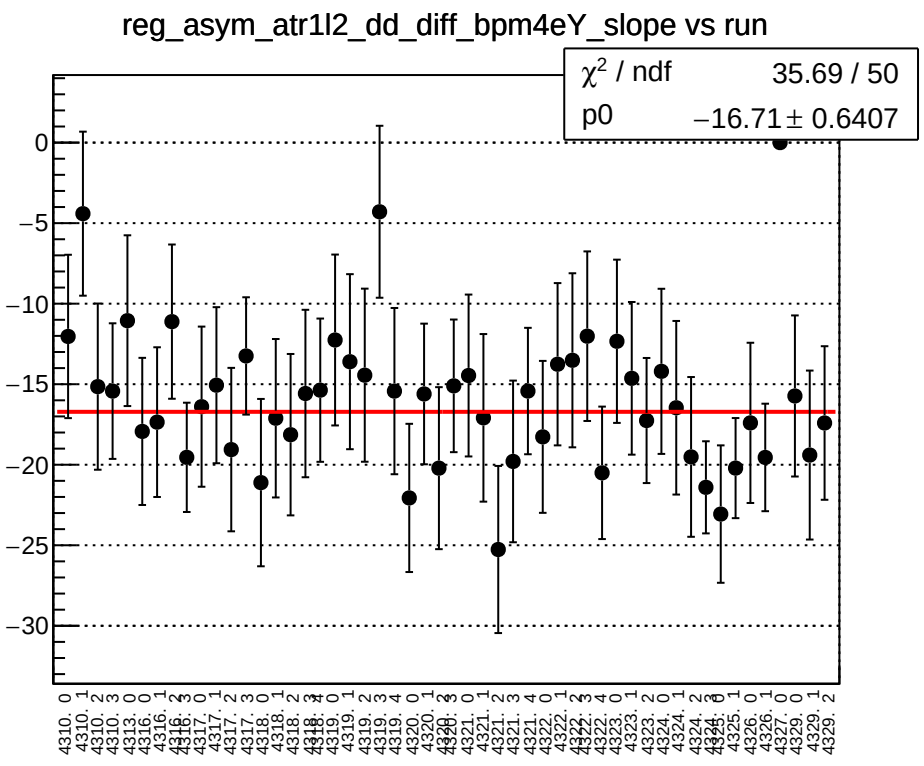
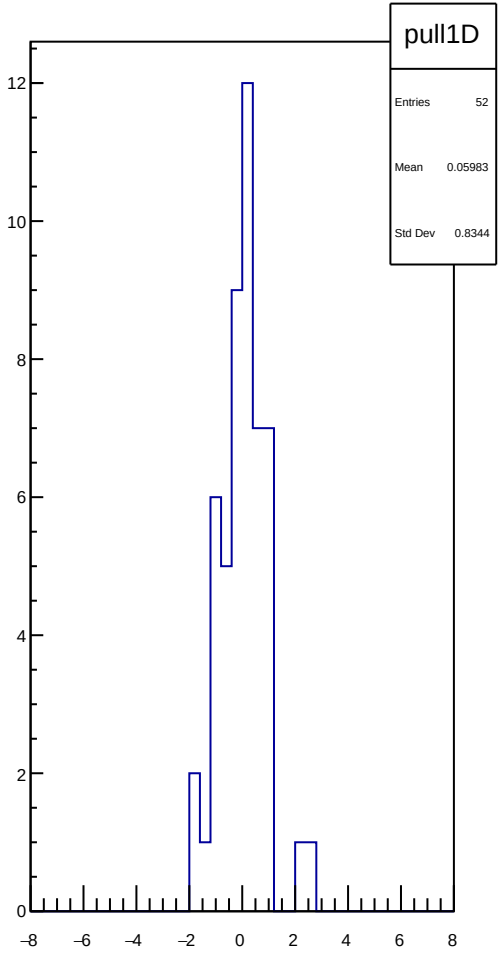
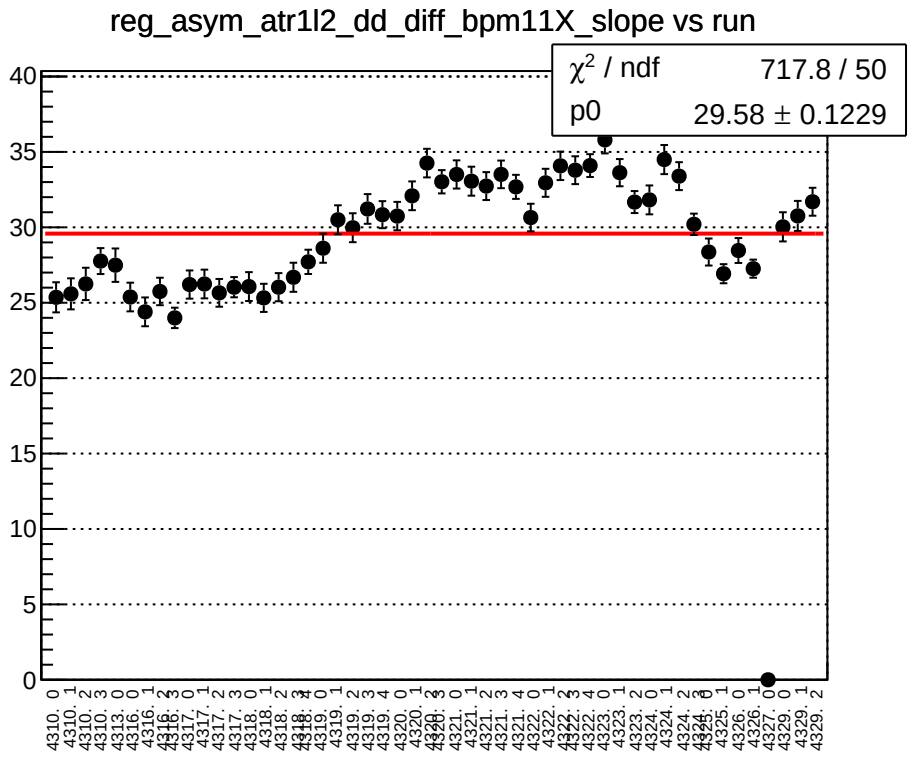
2
4
6
8

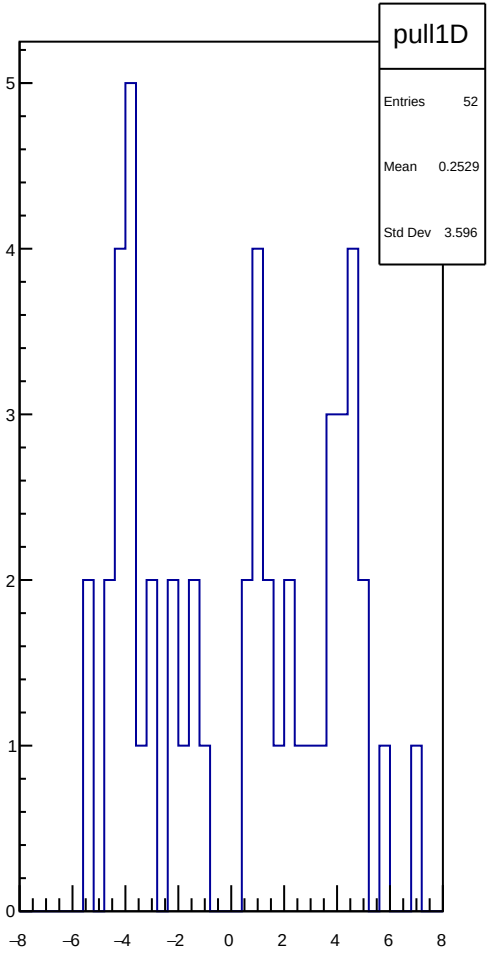

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 596.3 / 50
p0 −15.38 ± 0.1026
0
−5
−10
−15
−20

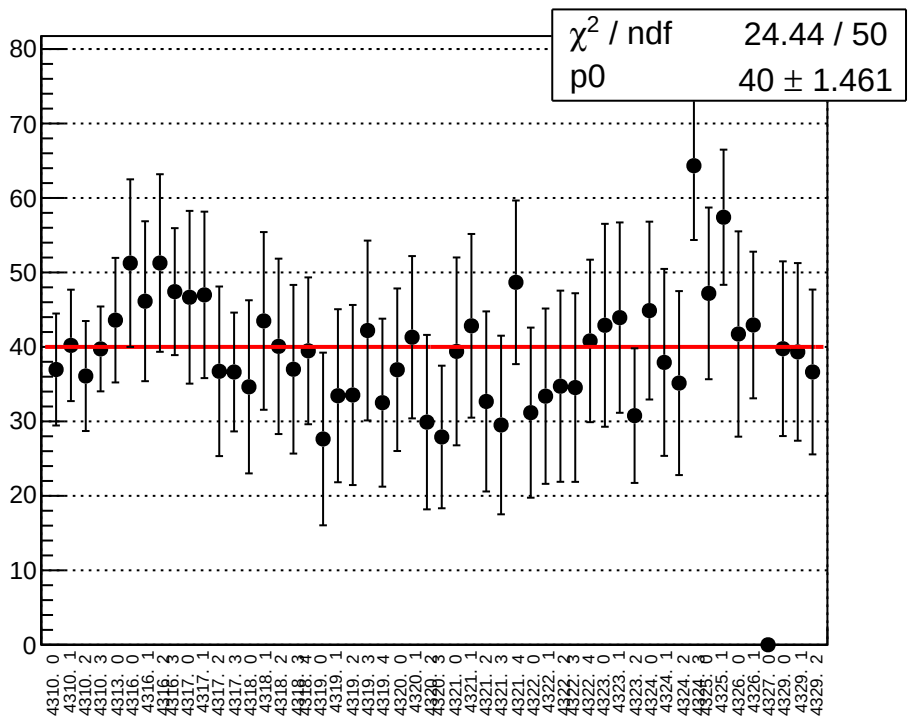

pull1D
Entries 52
Mean 0.08537
Std Dev 3.418
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

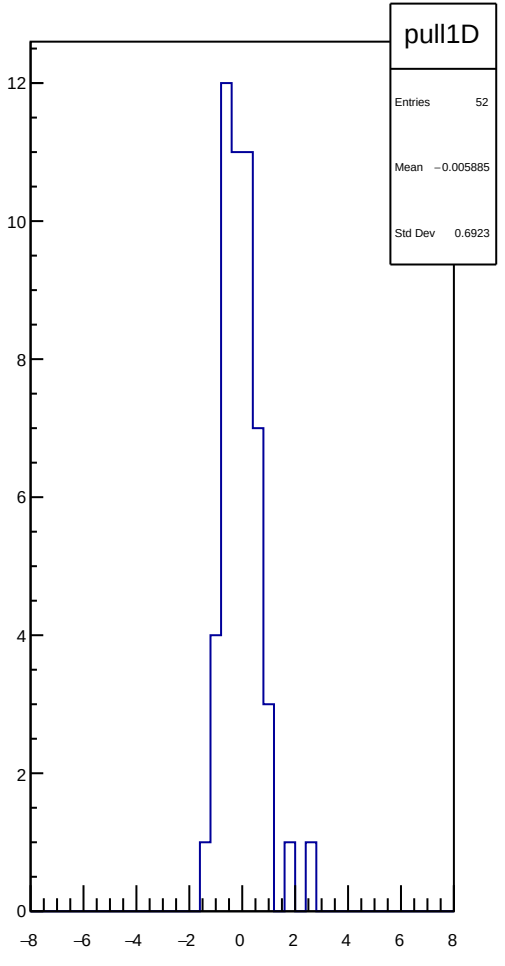

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.69 / 50
p0 −16.71 ± 0.6407
0
−5
−10
−15
−20
−25
−30
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

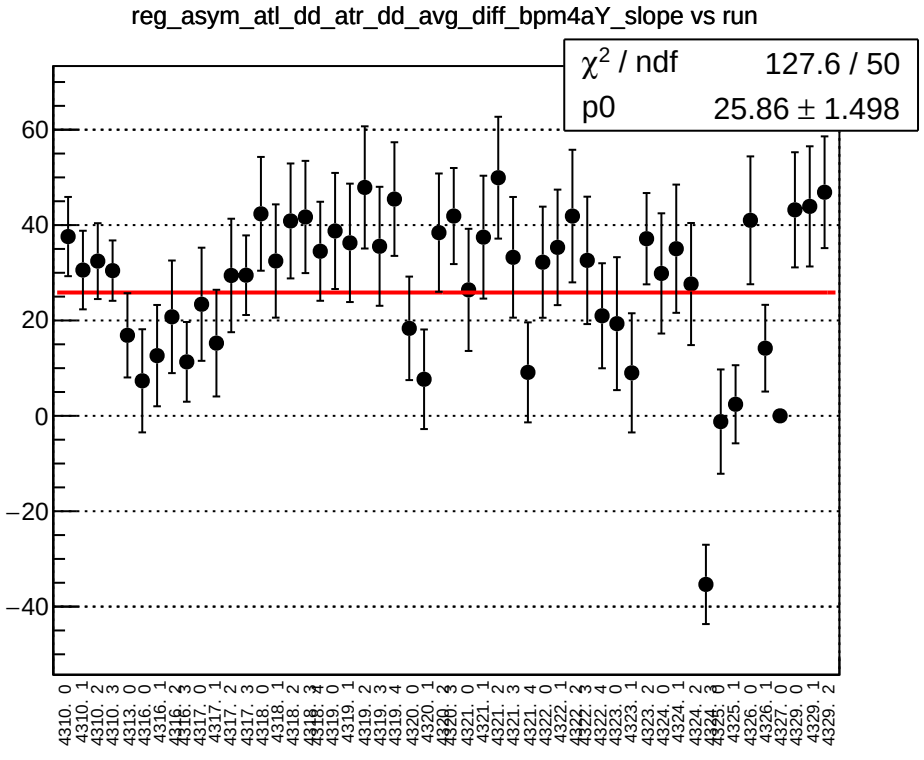

pull1D
Entries 52
Mean 0.05983
Std Dev 0.8344
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

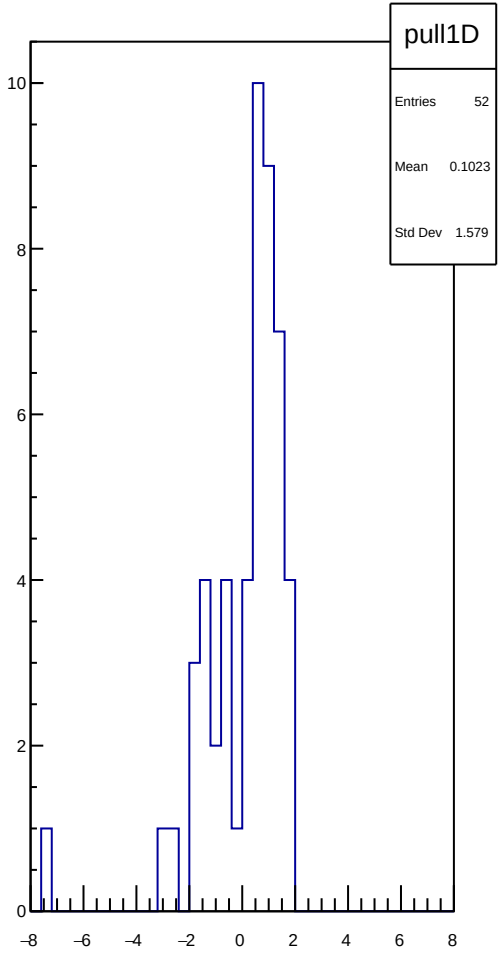

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 717.8 / 50
p0 29.58 ± 0.1229
40
35
30
25
20
15
10
5
0

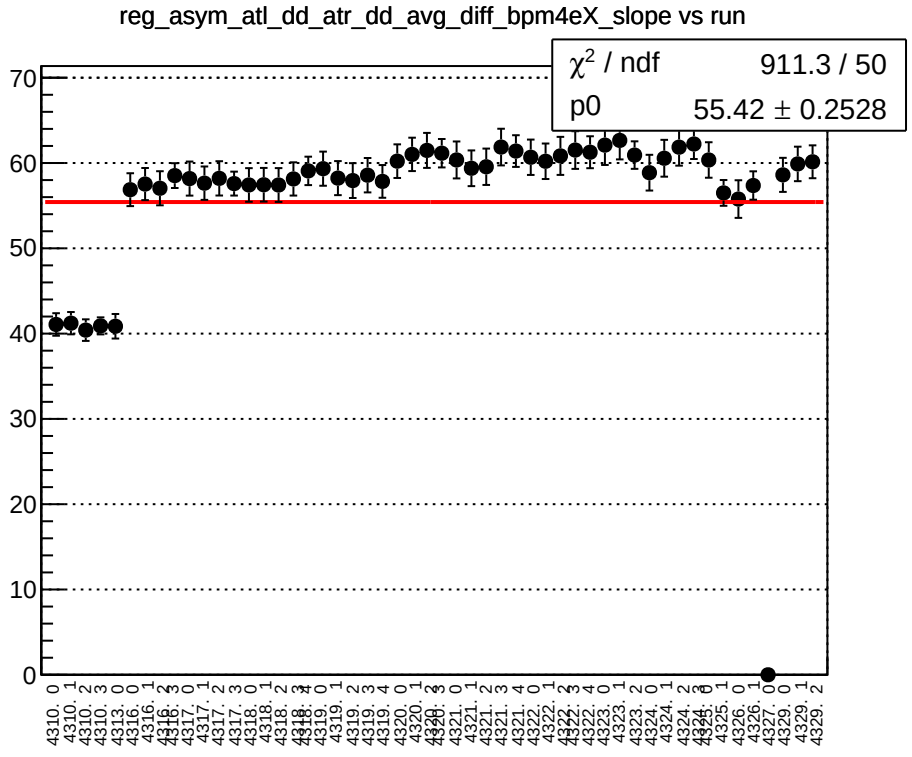

pull1D
Entries 52
Mean 0.2529
Std Dev 3.596
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

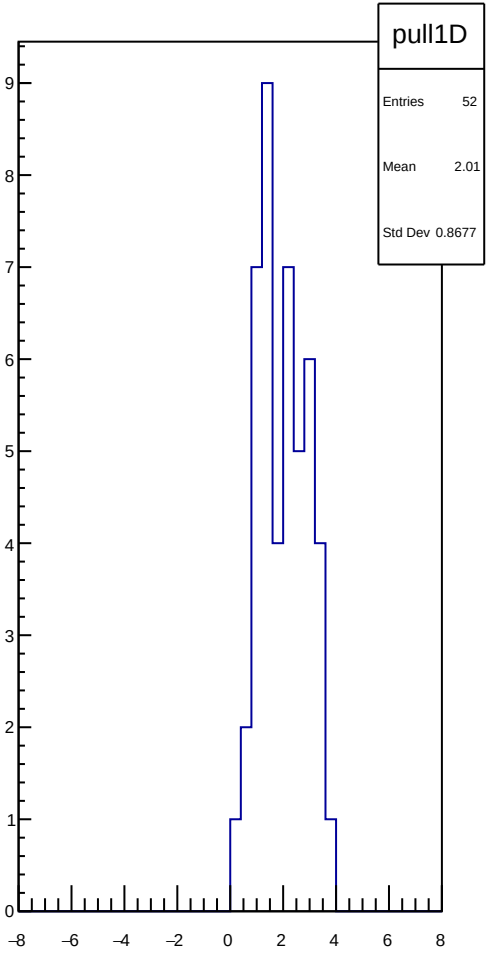

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.44 / 50
p0 40 ± 1.461

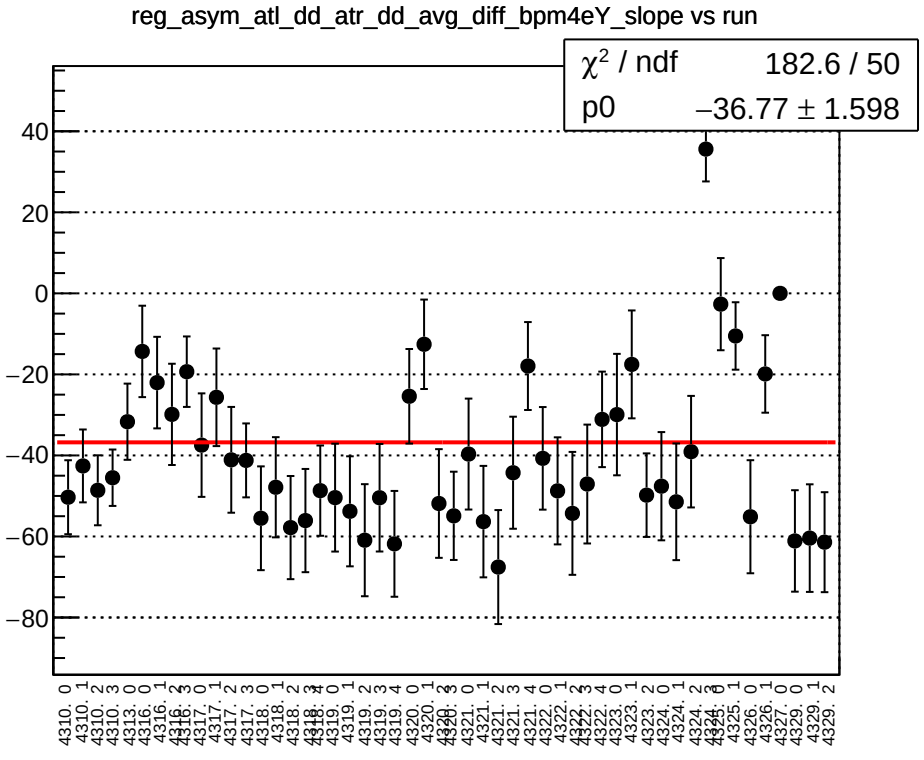

pull1D
Entries 52
Mean −0.005885
Std Dev 0.6923

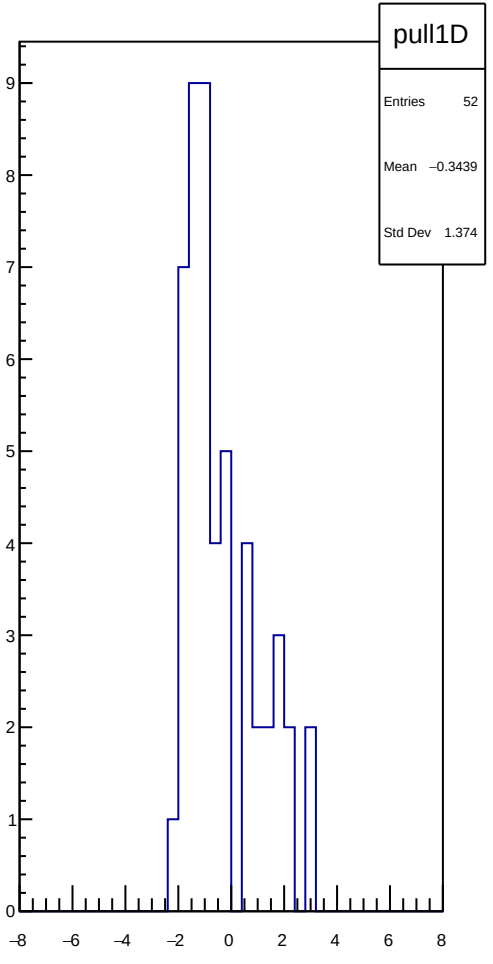

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 127.6 / 50
p0 25.86 ± 1.498
60
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

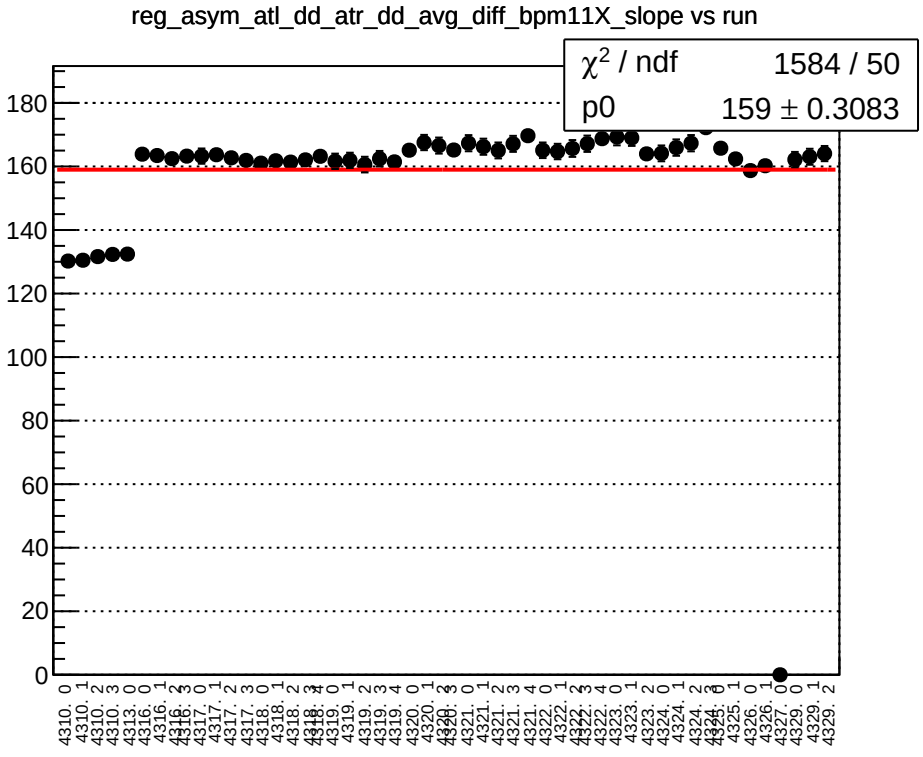

pull1D
Entries 52
Mean 0.1023
Std Dev 1.579
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

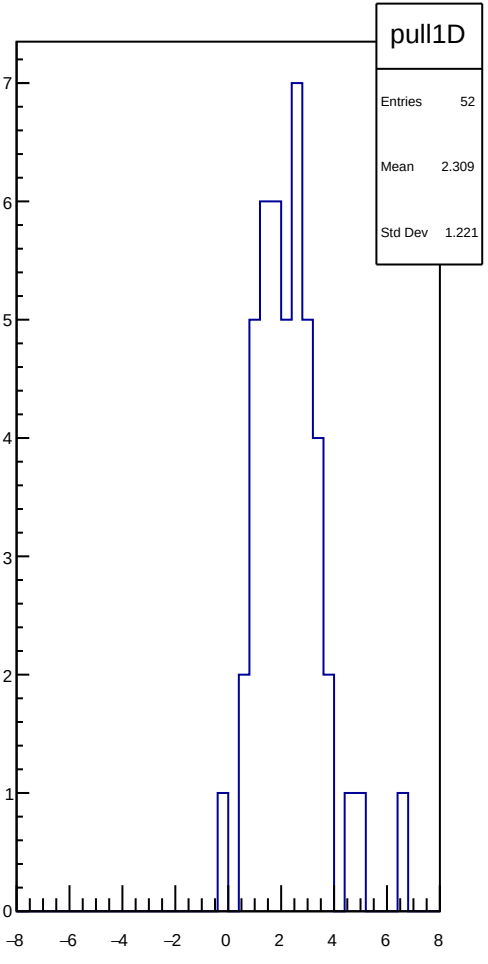

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 911.3 / 50
p0 55.42 ± 0.2528

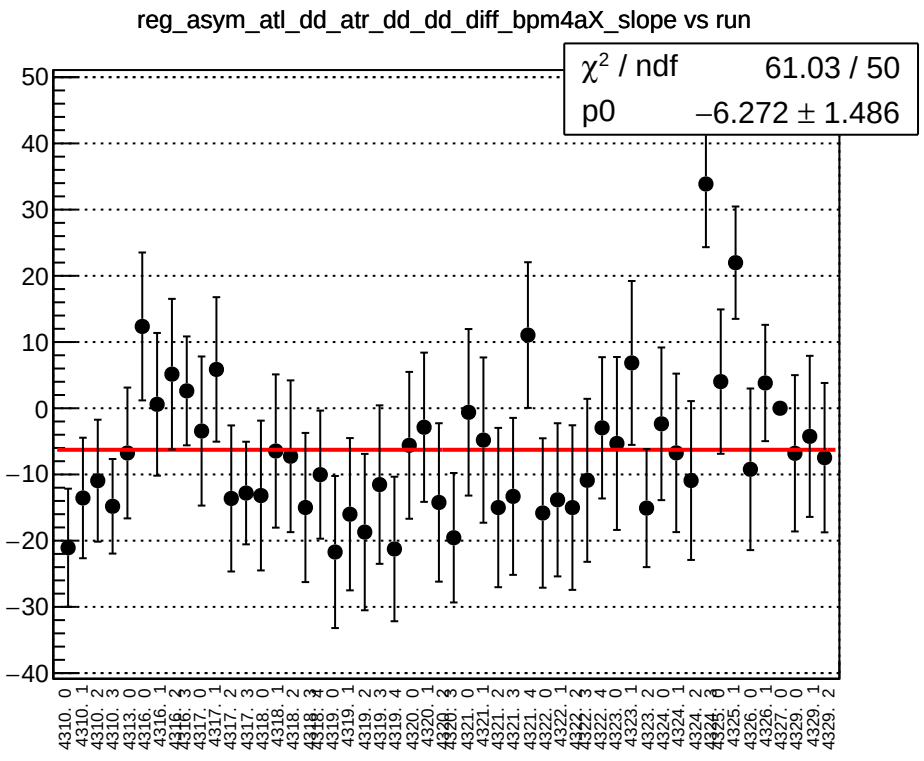

pull1D
Entries 52
Mean 2.01
Std Dev 0.8677

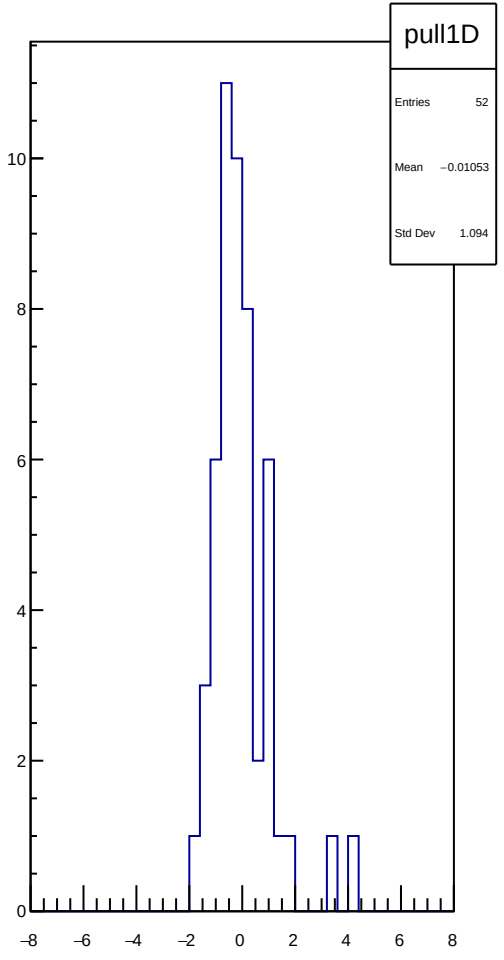

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 182.6 / 50
p0 −36.77 ± 1.598
40
20
0
−20
−40
−60
−80

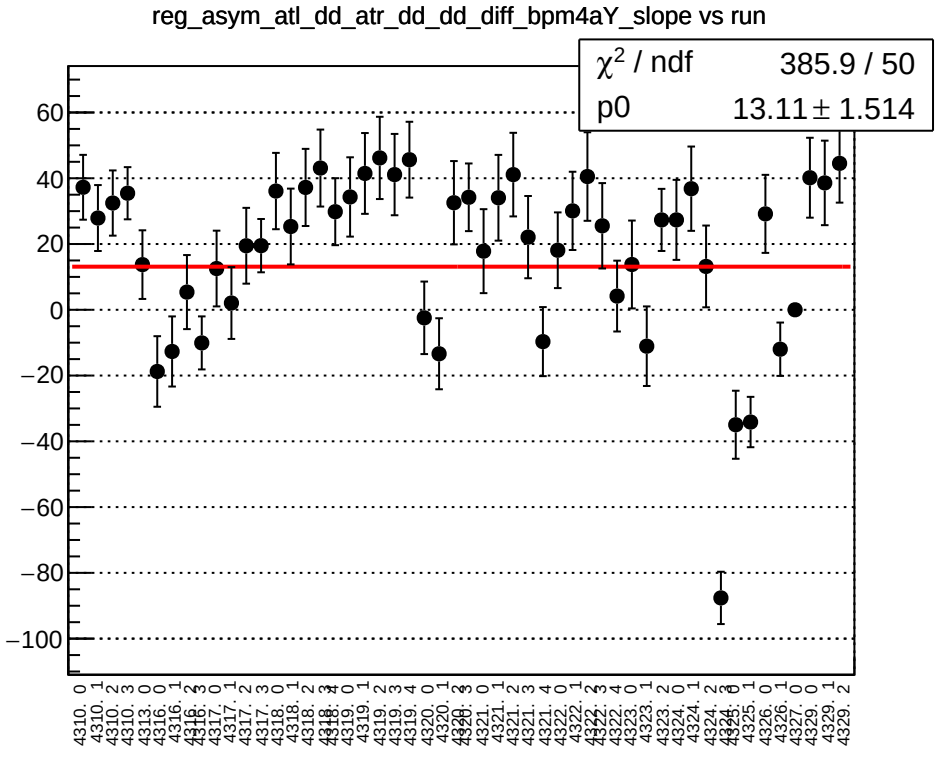

pull1D
Entries 52
Mean −0.3439
Std Dev 1.374
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

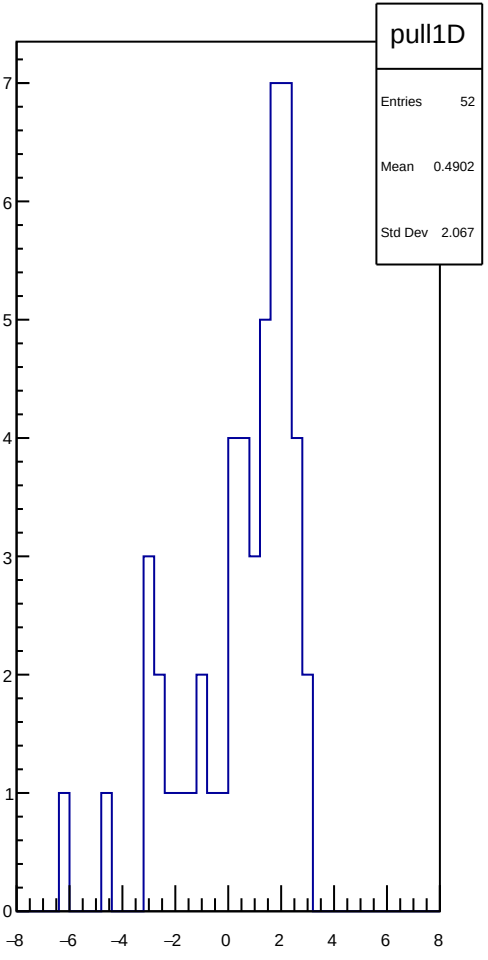

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 1584 / 50
p0 159 ± 0.3083
180
160
140
120
100
80
60
40
20
0

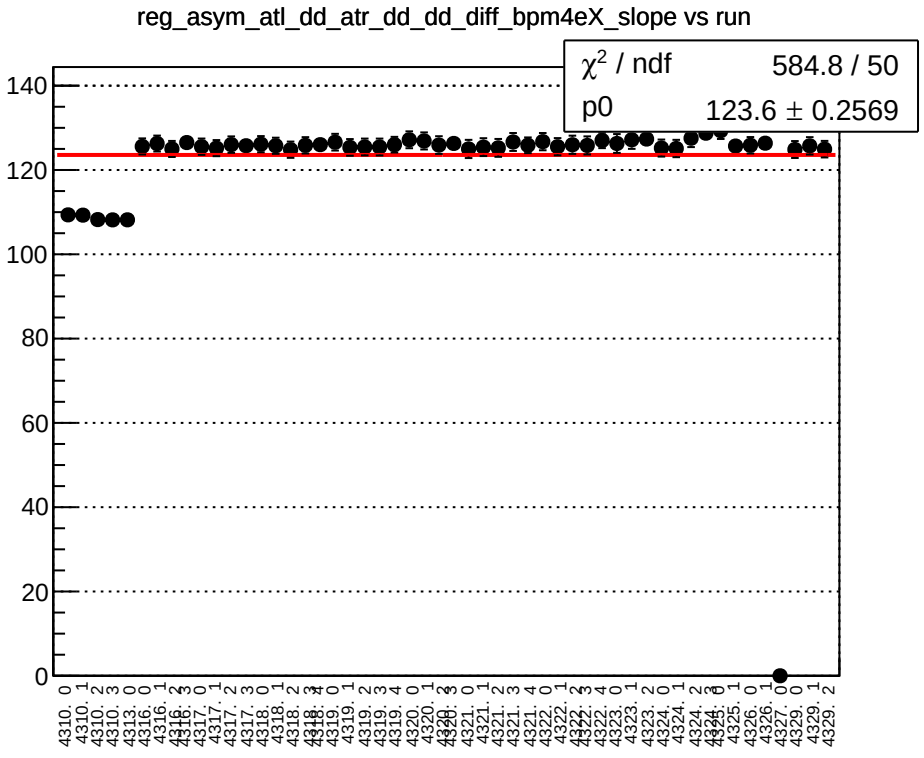

pull1D
Entries 52
Mean 2.309
Std Dev 1.221
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

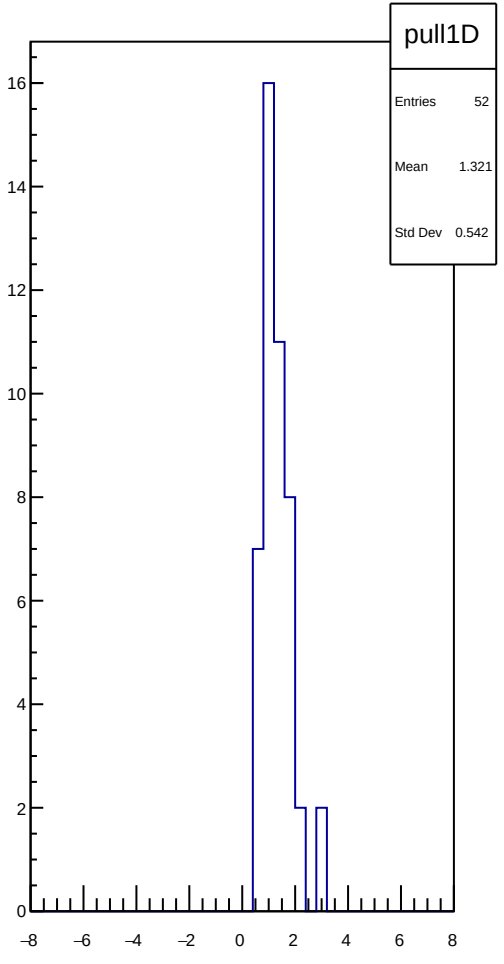

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 61.03 / 50
p0 −6.272 ± 1.486

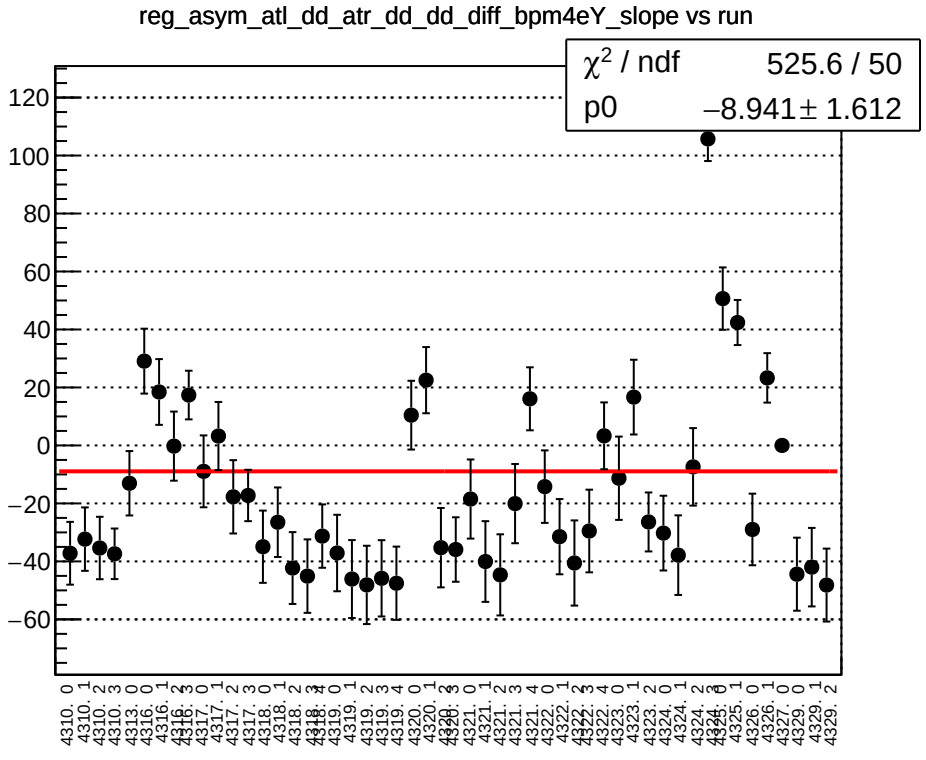

pull1D
Entries 52
Mean −0.01053
Std Dev 1.094

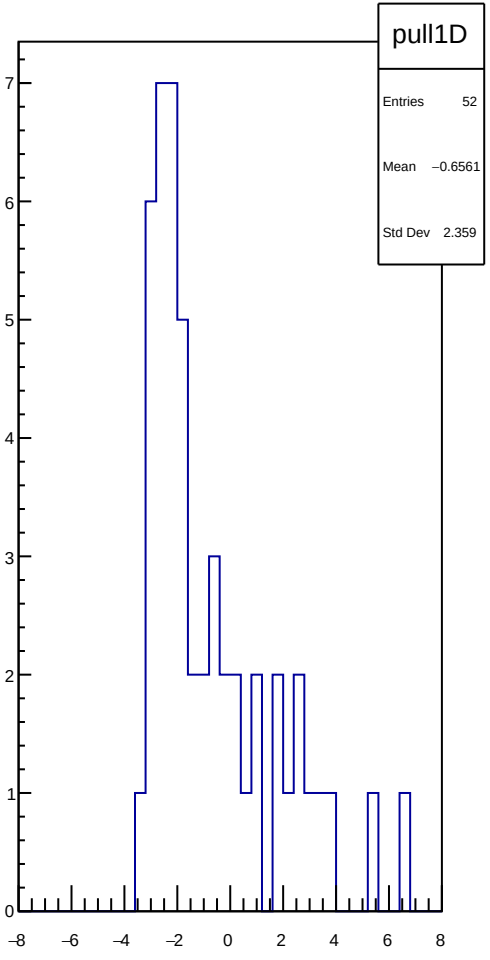

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 385.9 / 50
p0 13.11 ± 1.514
60
40
20
0
−20
−40
−60
−80
−100

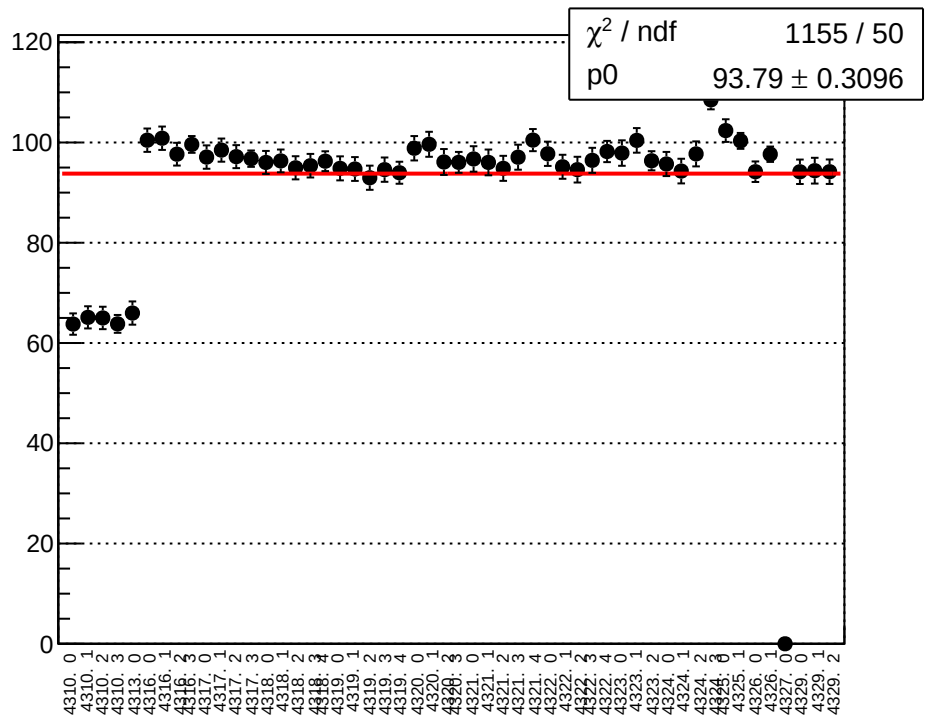

pull1D
Entries 52
Mean 0.4902
Std Dev 2.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

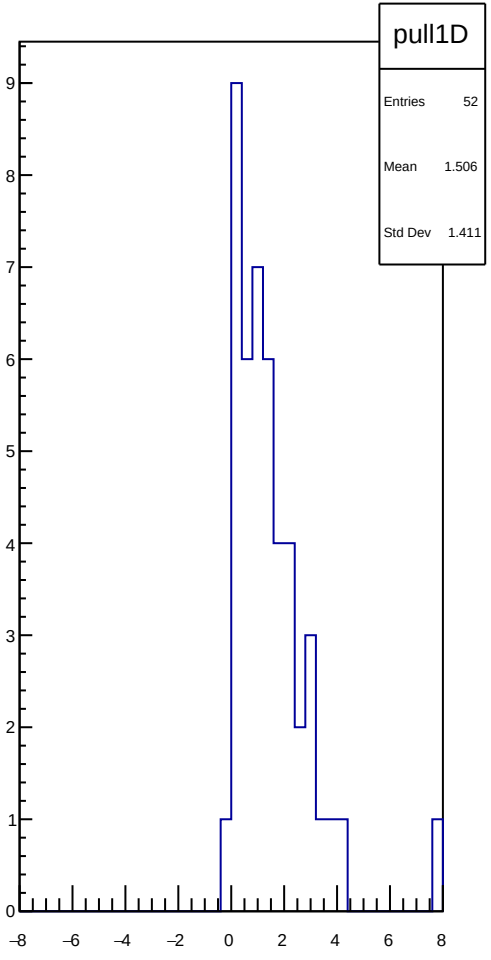

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 584.8 / 50
p0 123.6 ± 0.2569
140
120
100
80
60
40
20
0

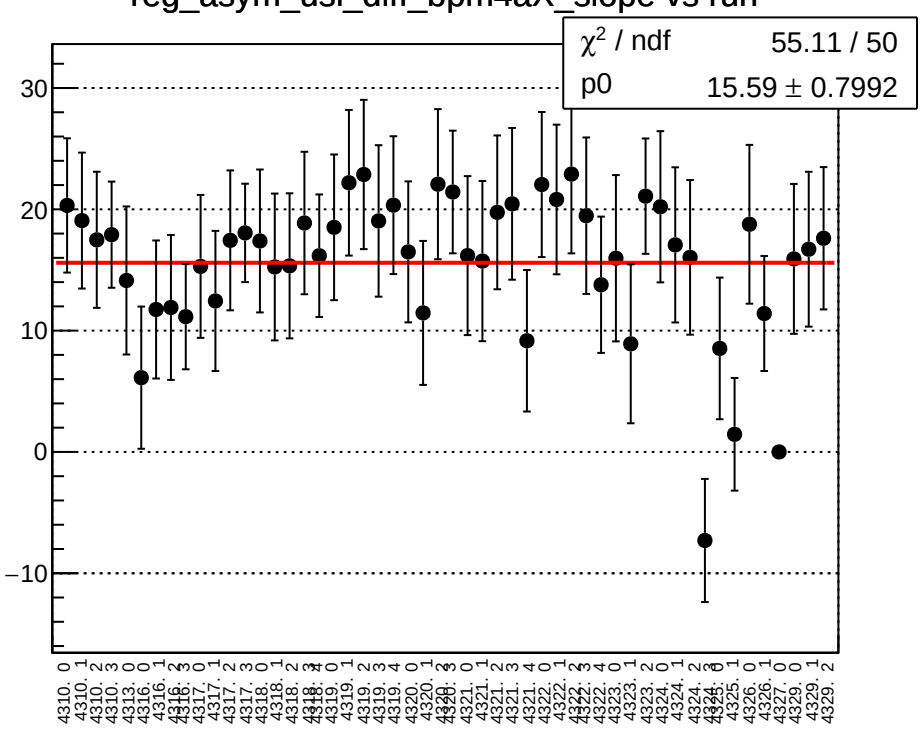

pull1D
Entries 52
Mean 1.321
Std Dev 0.542
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

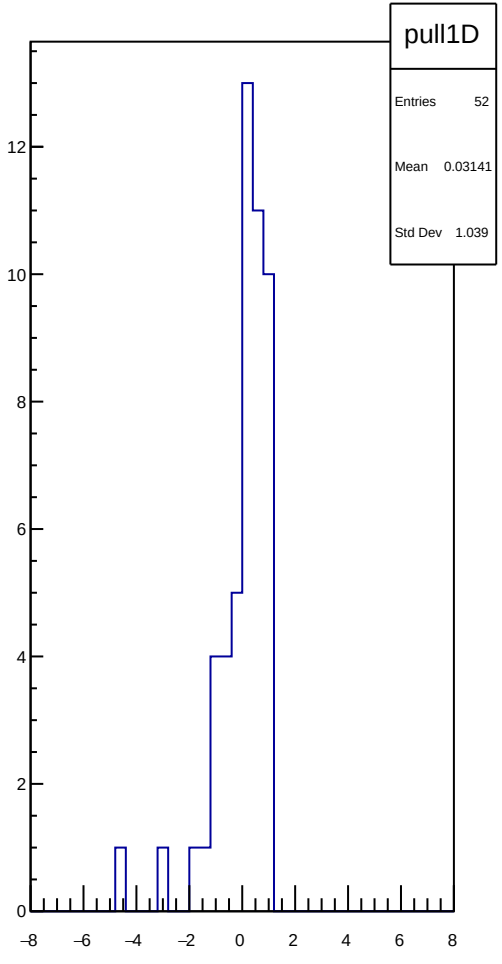

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 525.6 / 50
p0 −8.941 ± 1.612
120
100
80
60
40
20
0
−20
−40
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

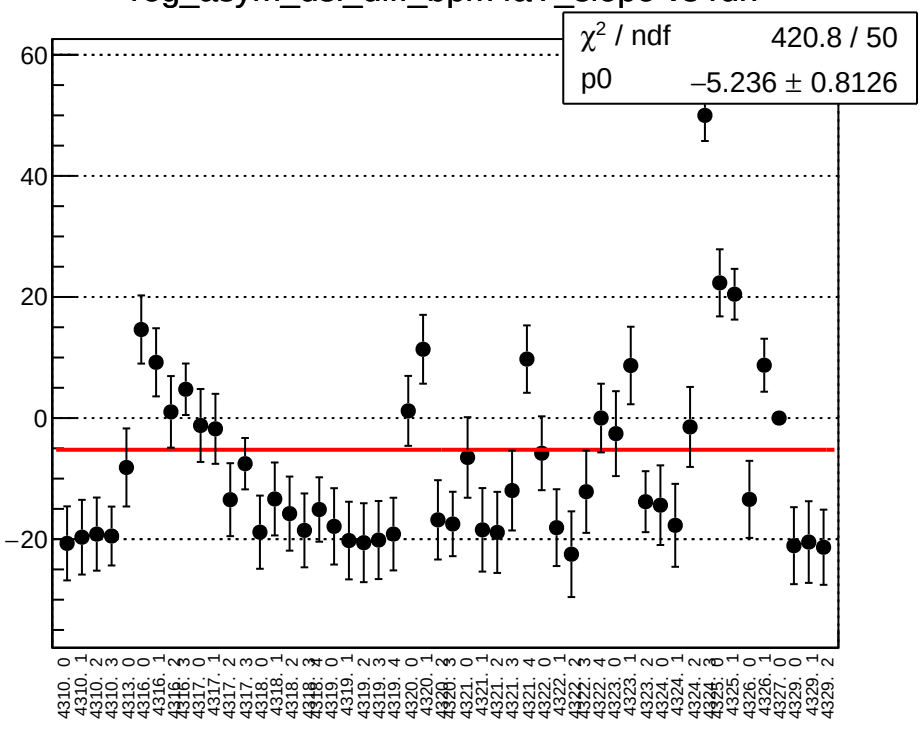

pull1D
Entries 52
Mean −0.6561
Std Dev 2.359
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

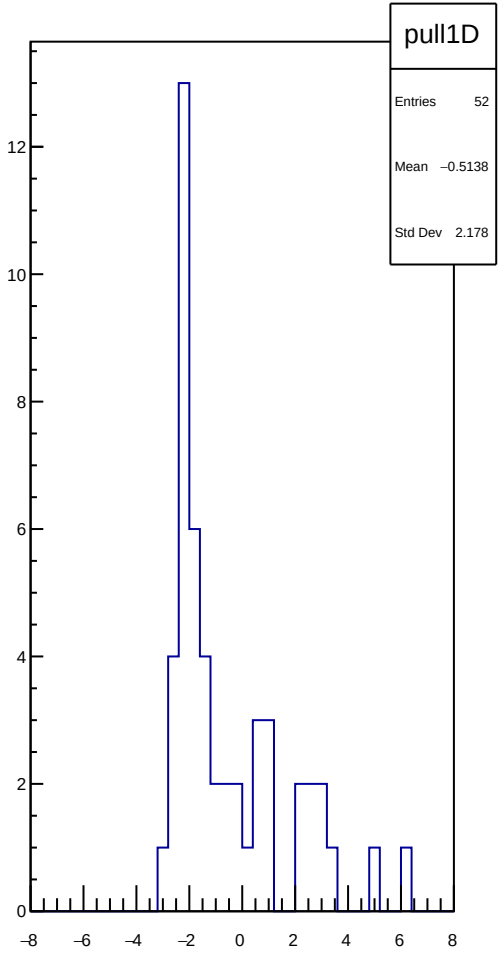

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 1155 / 50
p0 93.79 ± 0.3096
120
100
80
60
40
20
0

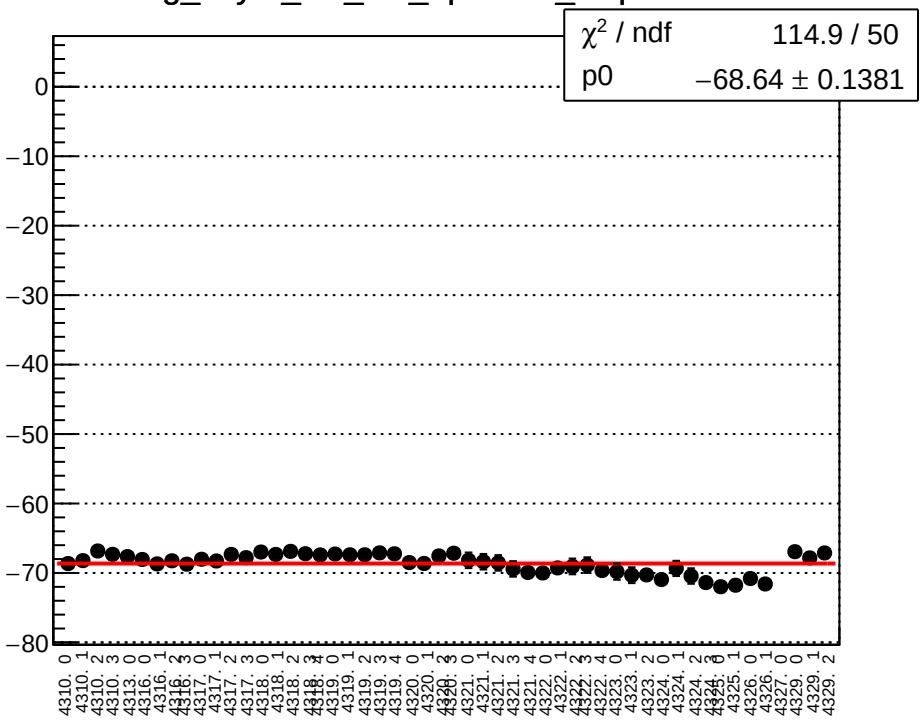

pull1D
Entries 52
Mean 1.506
Std Dev 1.411
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

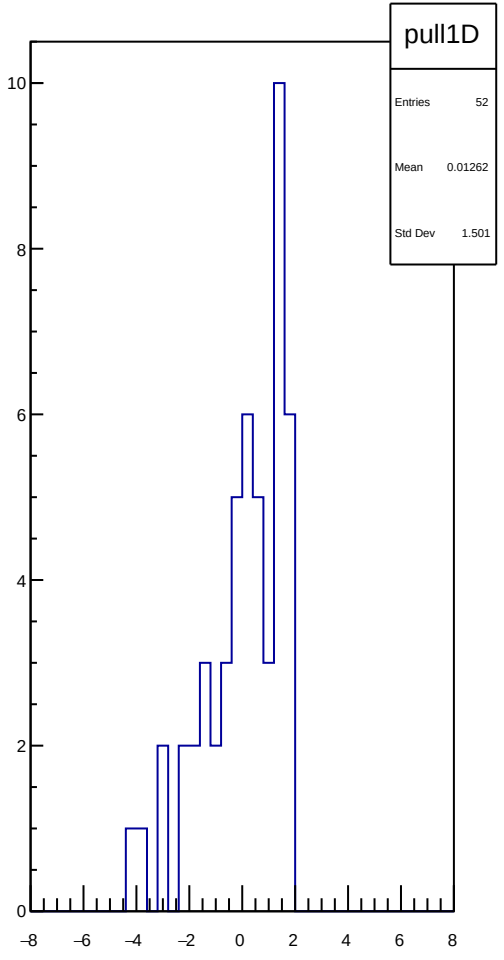

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 55.11 / 50
p0 15.59 ± 0.7992
30
20
10
0
−10

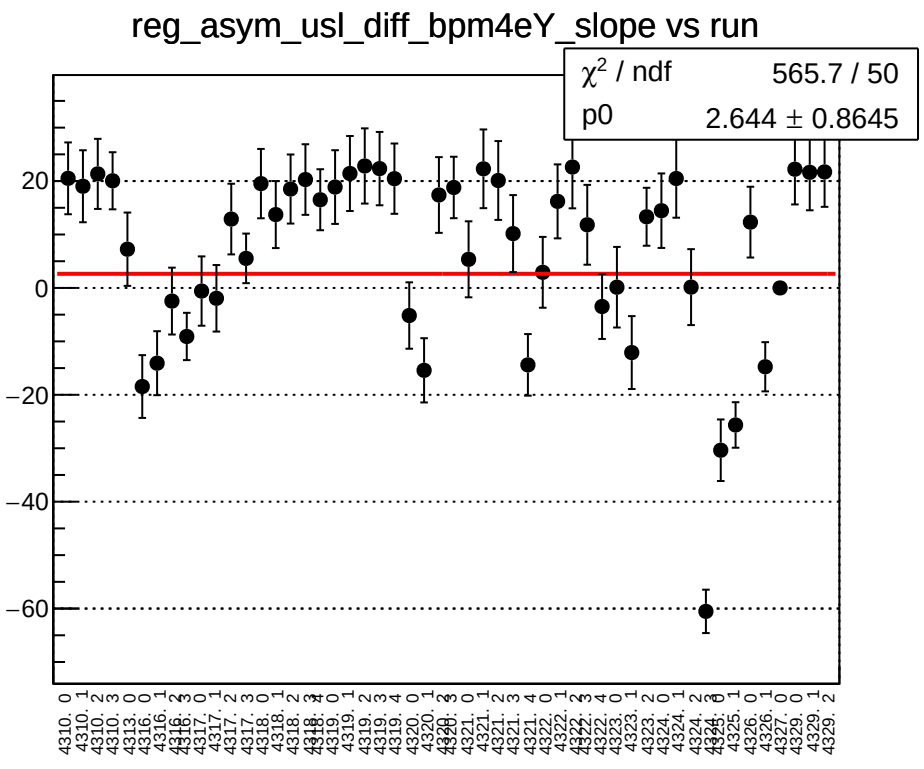

pull1D
Entries 52
Mean 0.03141
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

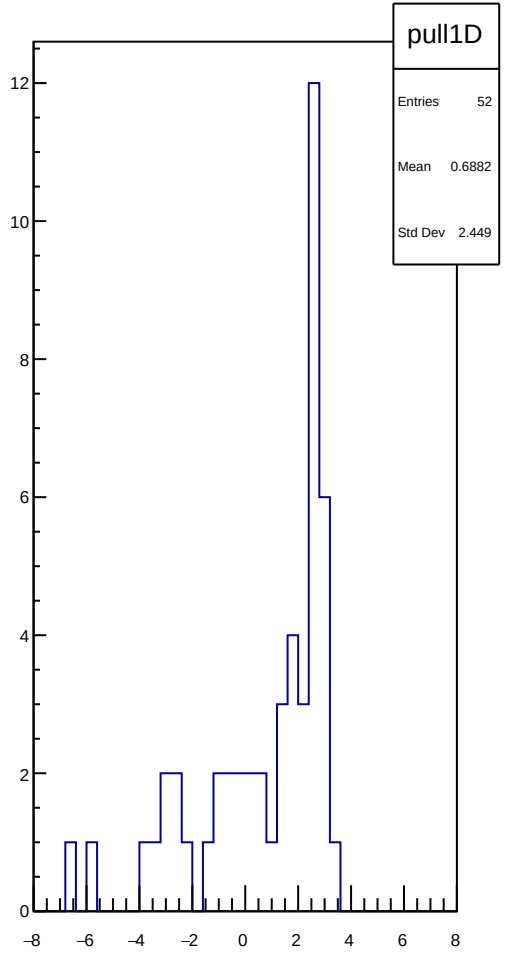

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 420.8 / 50
p0 −5.236 ± 0.8126
60
40
20
0
−20

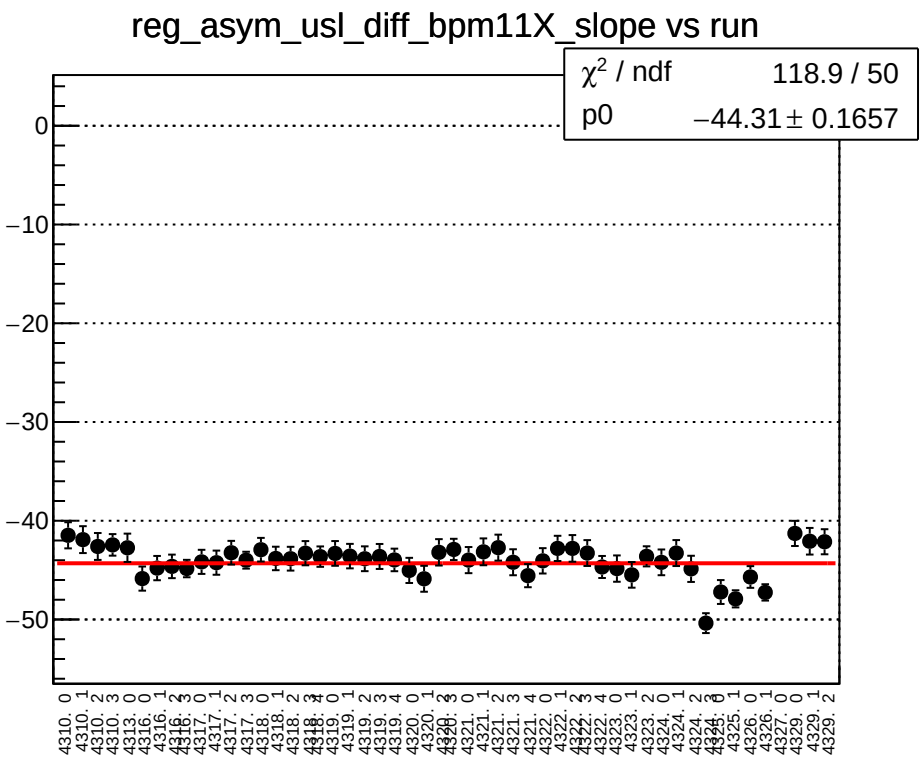

pull1D
Entries 52
Mean −0.5138
Std Dev 2.178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

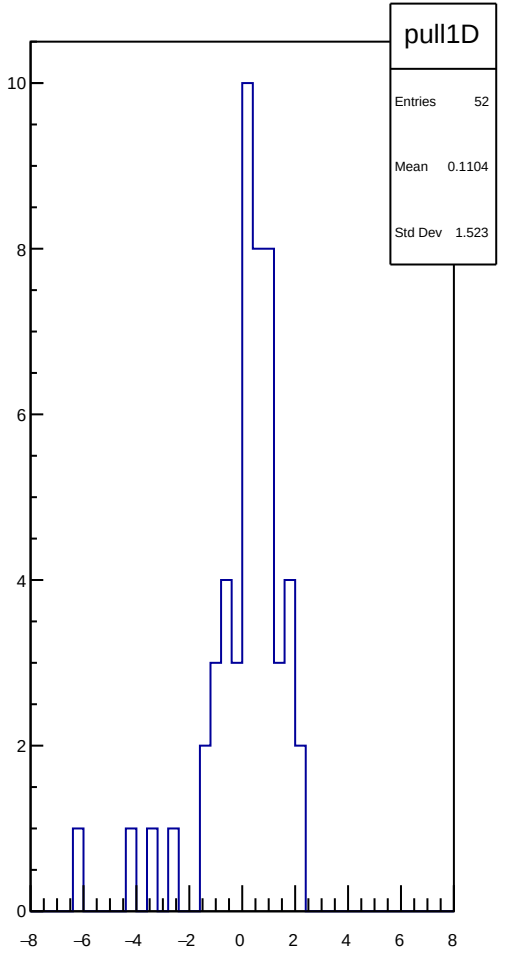

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 114.9 / 50
p0 −68.64 ± 0.1381
0
−10
−20
−30
−40
−50
−60
−70
−80
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

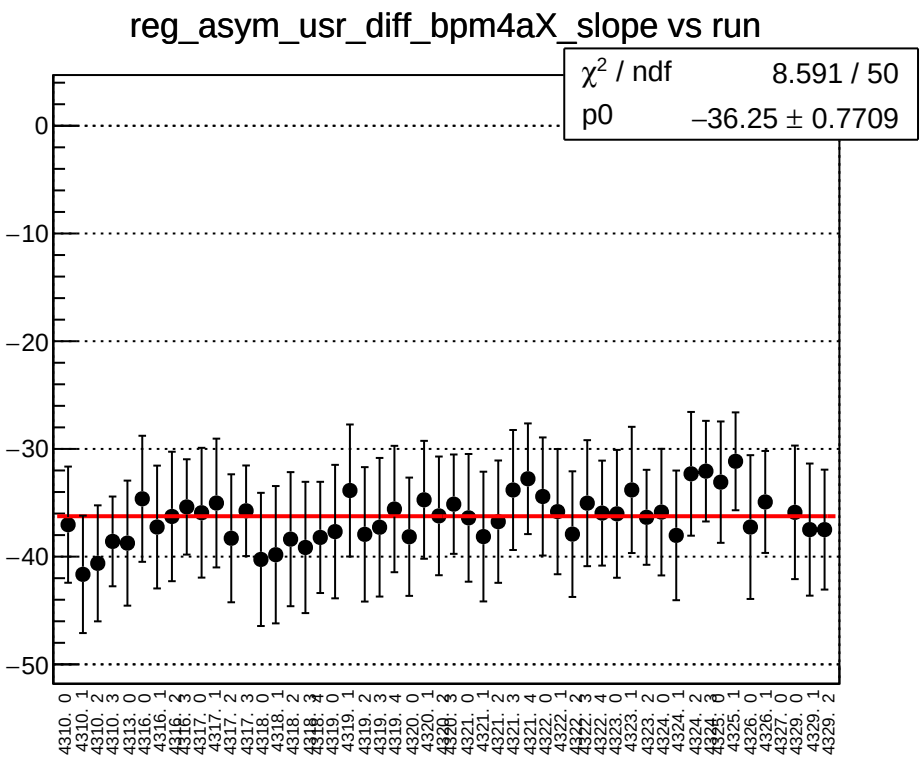

pull1D
Entries 52
Mean 0.01262
Std Dev 1.501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

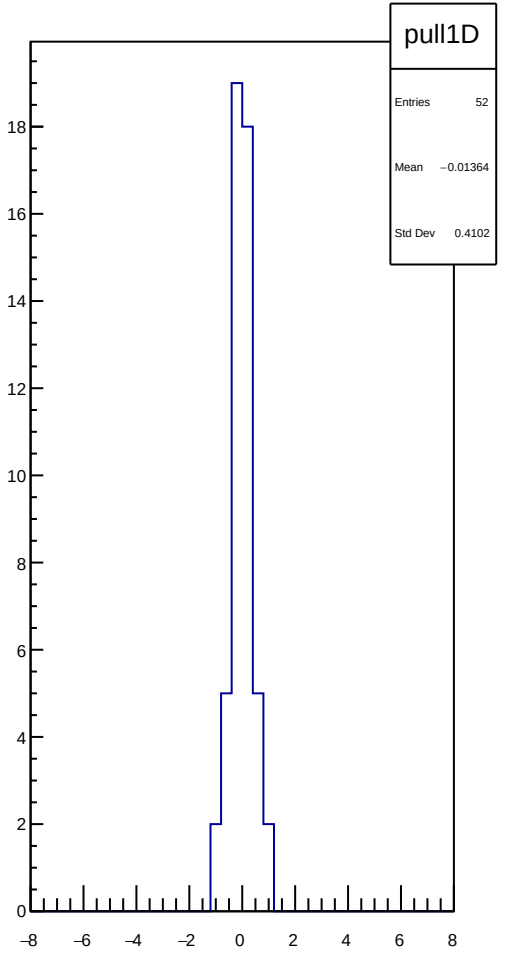

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 565.7 / 50
p0 2.644 ± 0.8645
20
0
−20
−40
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

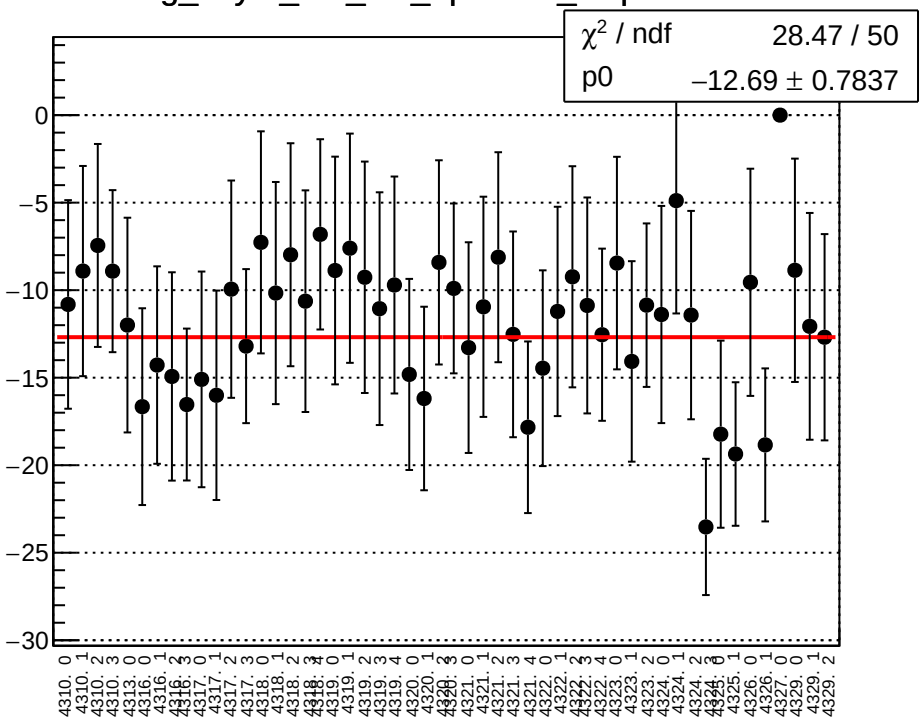

pull1D
Entries 52
Mean 0.6882
Std Dev 2.449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

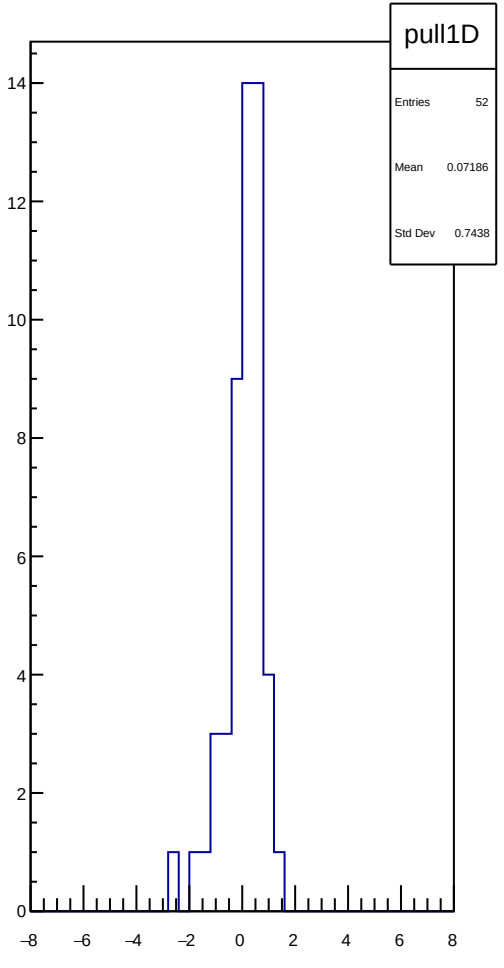

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 118.9 / 50
p0 −44.31 ± 0.1657
0
−10
−20
−30
−40
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

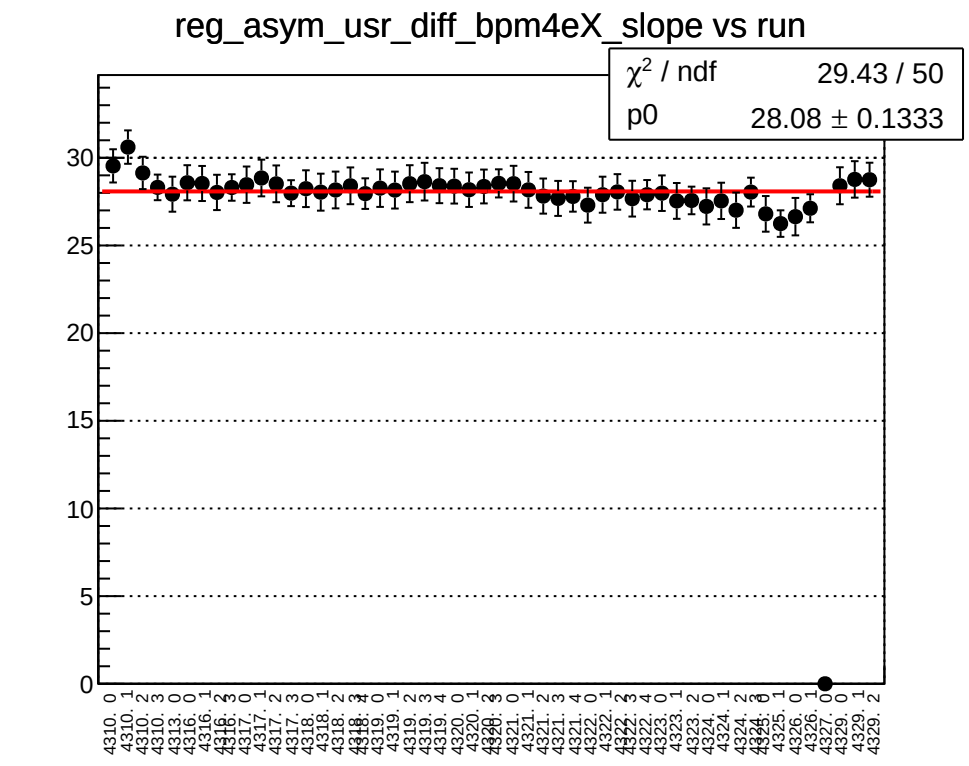

pull1D
Entries 52
Mean 0.1104
Std Dev 1.523
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

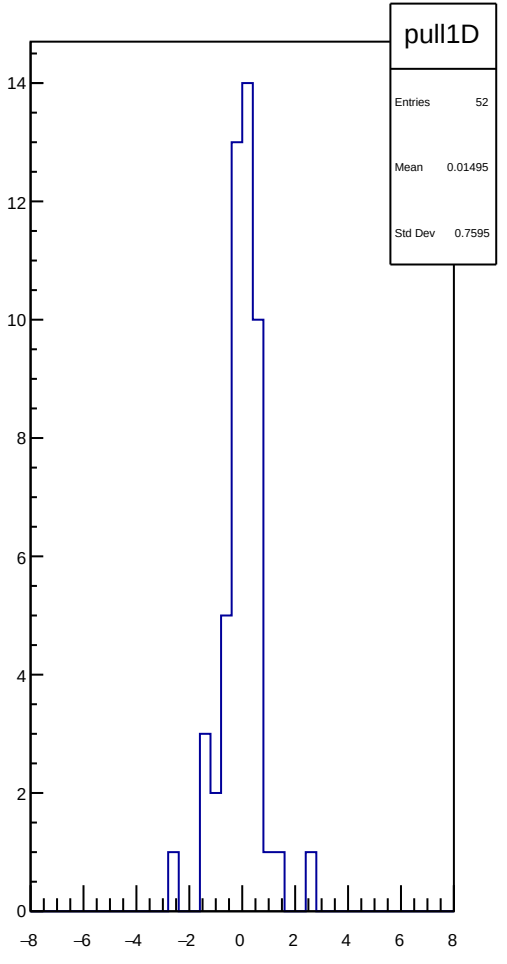

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 8.591 / 50
p0 −36.25 ± 0.7709
0
−10
−20
−30
−40
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01364
Std Dev 0.4102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 28.47 / 50
p0 −12.69 ± 0.7837
0
−5
−10
−15
−20
−25
−30


pull1D
Entries 52
Mean 0.07186
Std Dev 0.7438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 29.43 / 50
p0 28.08 ± 0.1333
30
25
20
15
10
5
0


pull1D
Entries 52
Mean 0.01495
Std Dev 0.7595
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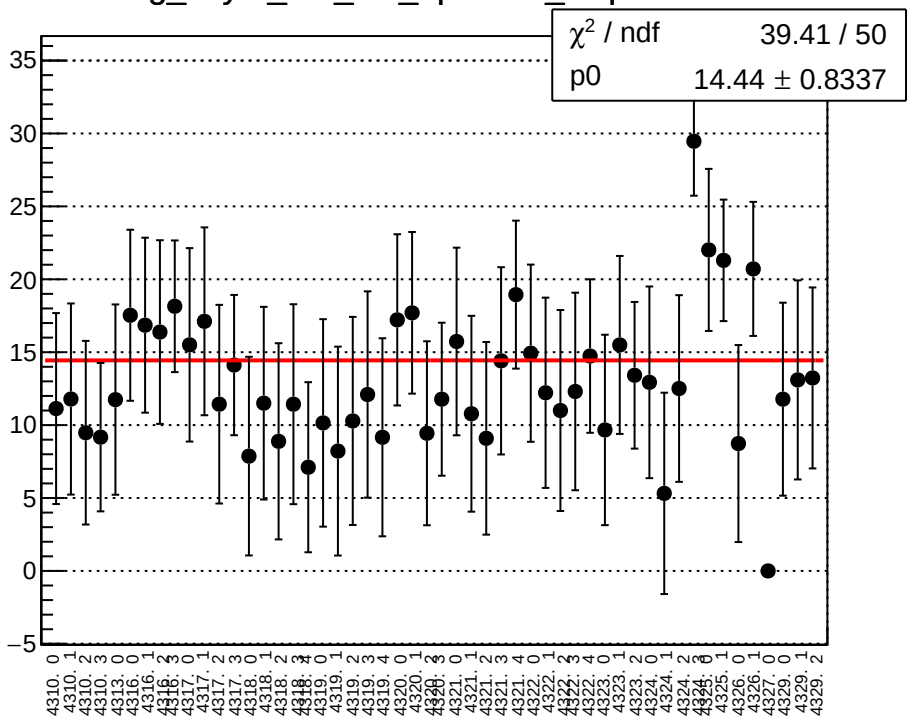
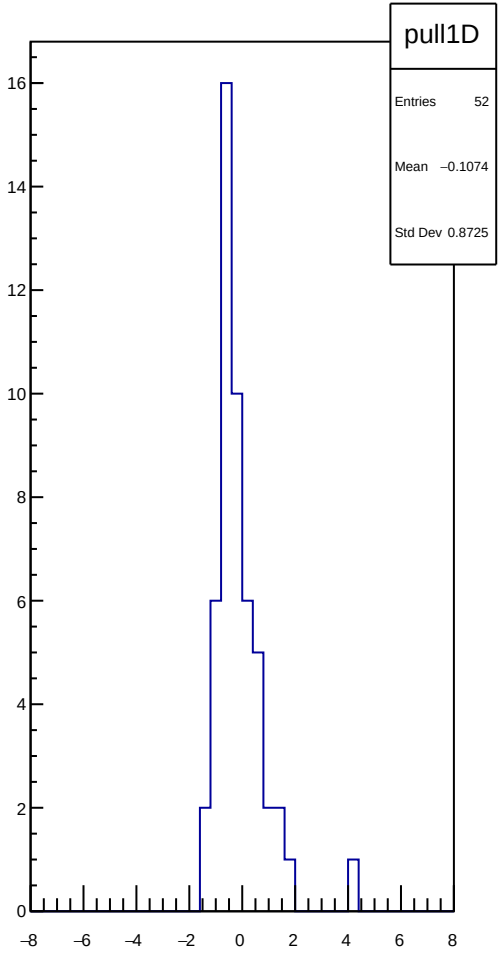
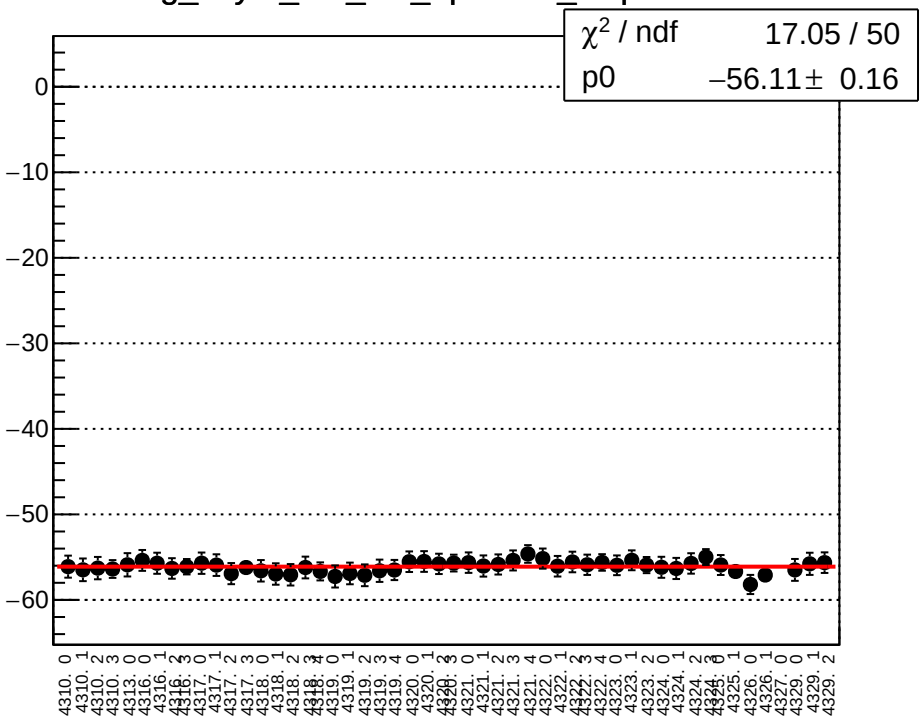
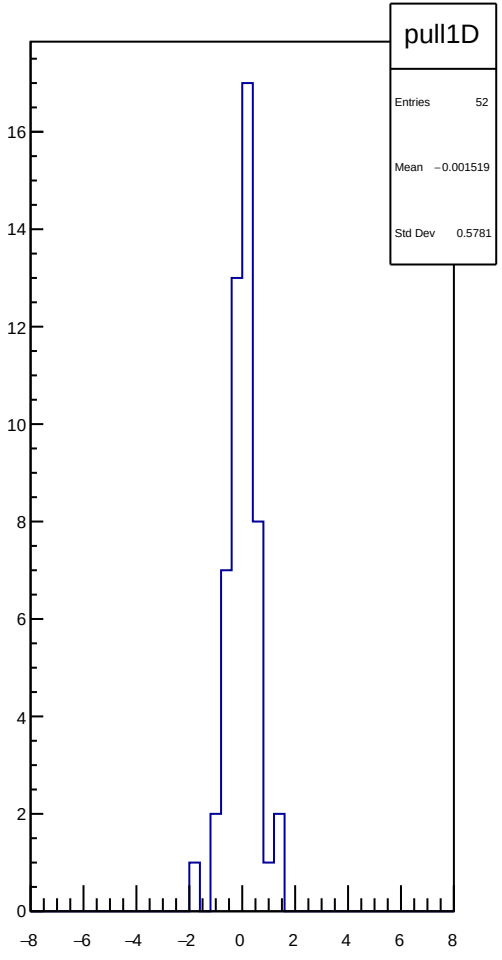
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 39.41 / 50
p0 14.44 ± 0.8337


pull1D
Entries 52
Mean −0.1074
Std Dev 0.8725


reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 17.05 / 50
p0 −56.11 ± 0.16
0
−10
−20
−30
−40
−50
−60
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.001519
Std Dev 0.5781
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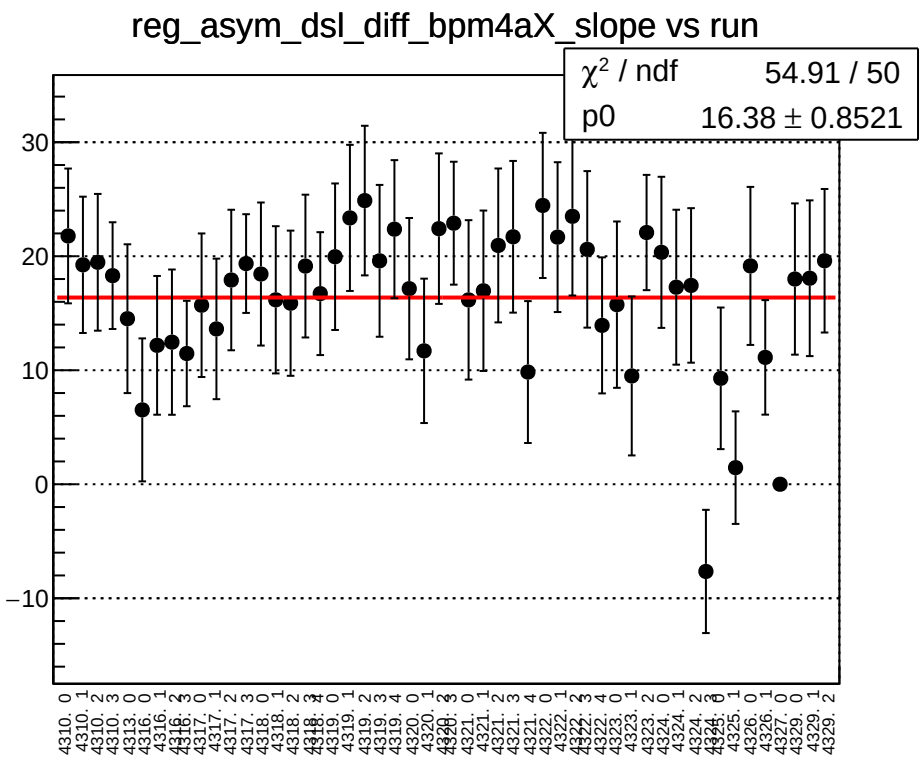
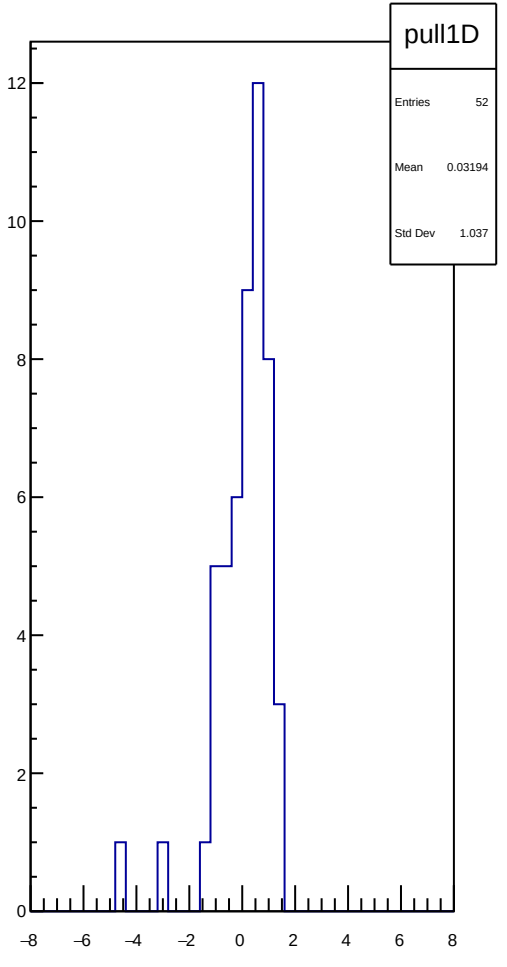
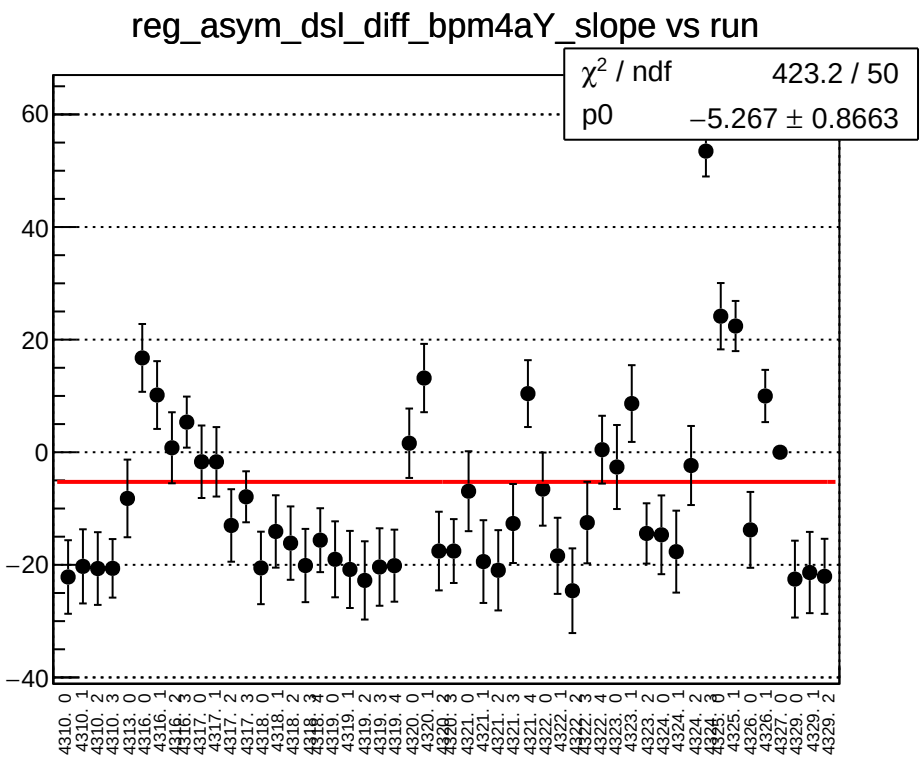
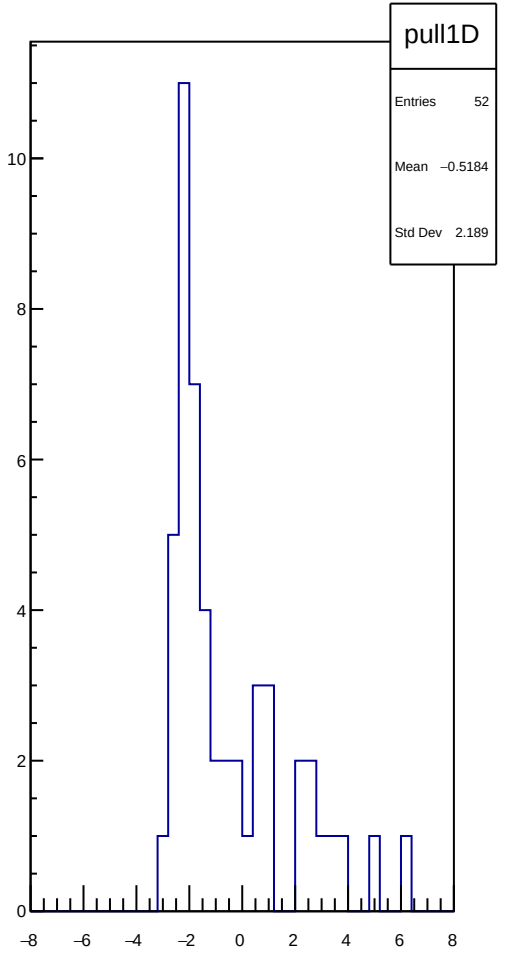
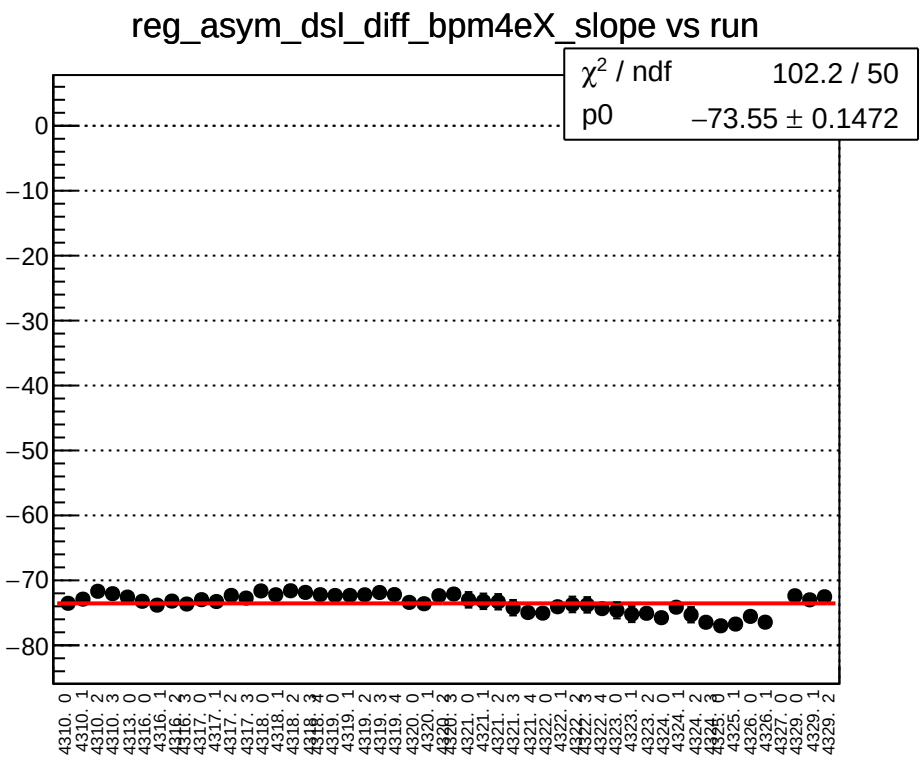
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

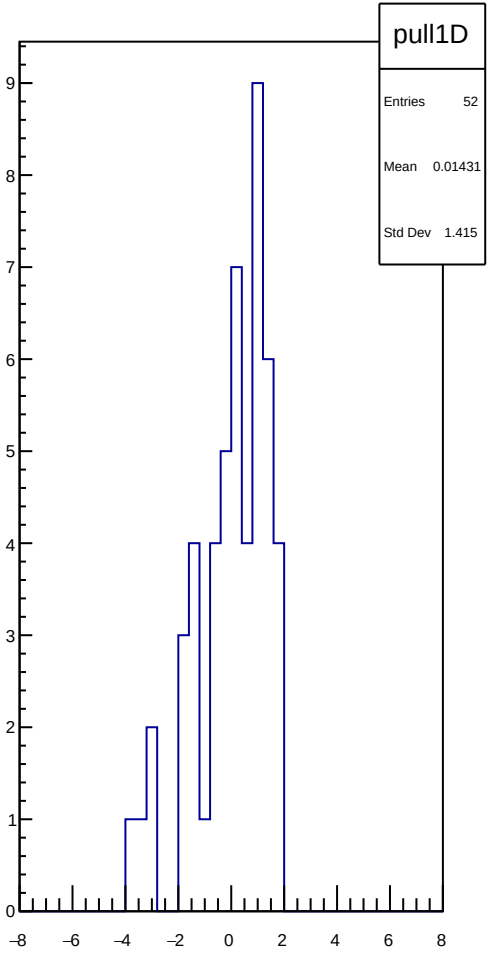

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 54.91 / 50
p0 16.38 ± 0.8521
30
20
10
0
−10
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

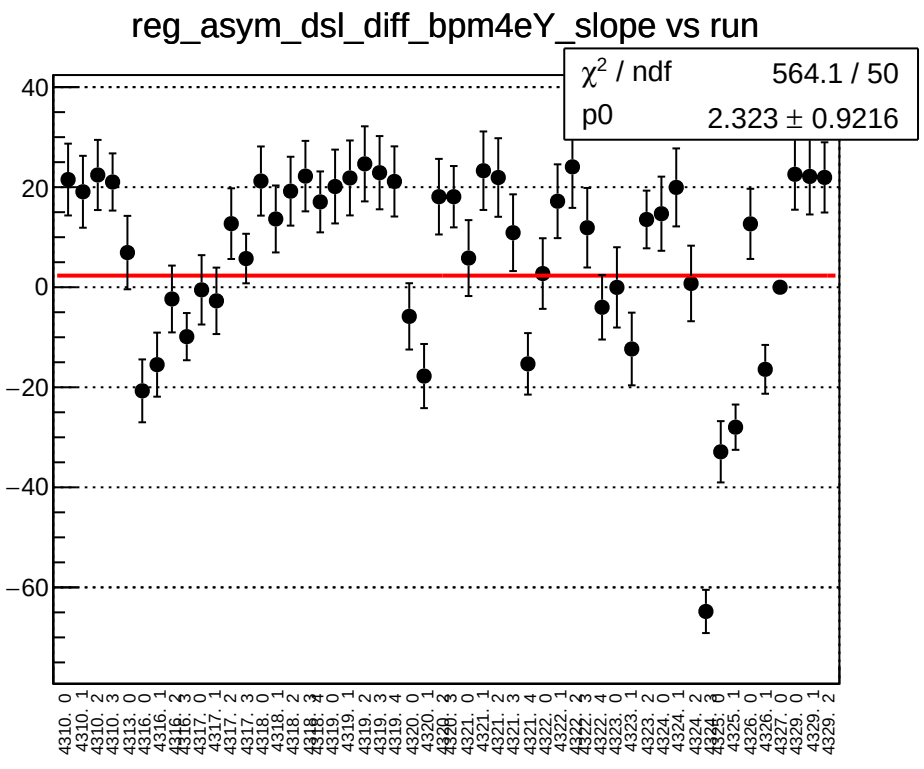

pull1D
Entries 52
Mean 0.03194
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

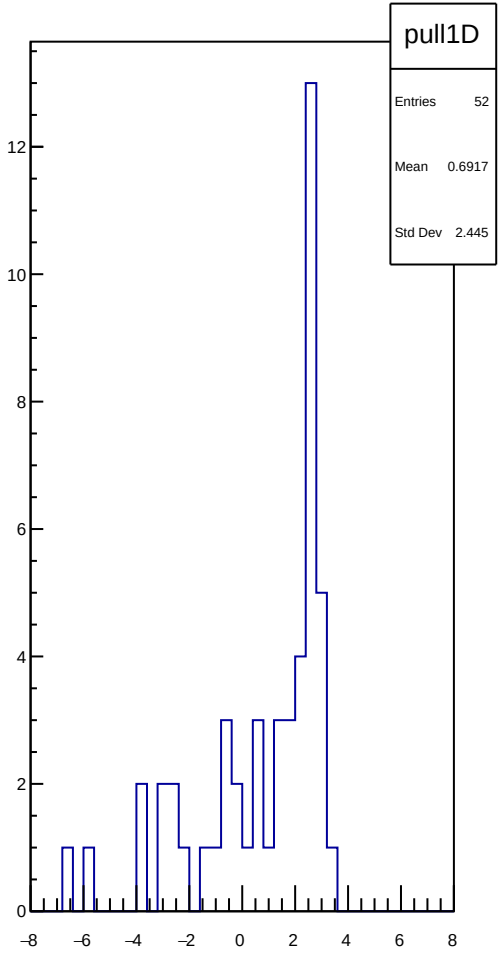

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 423.2 / 50
p0 −5.267 ± 0.8663
60
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.5184
Std Dev 2.189
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 102.2 / 50
p0 −73.55 ± 0.1472
0
−10
−20
−30
−40
−50
−60
−70
−80


pull1D
Entries 52
Mean 0.01431
Std Dev 1.415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 564.1 / 50
p0 2.323 ± 0.9216
40
20
0
−20
−40
−60


pull1D
Entries 52
Mean 0.6917
Std Dev 2.445
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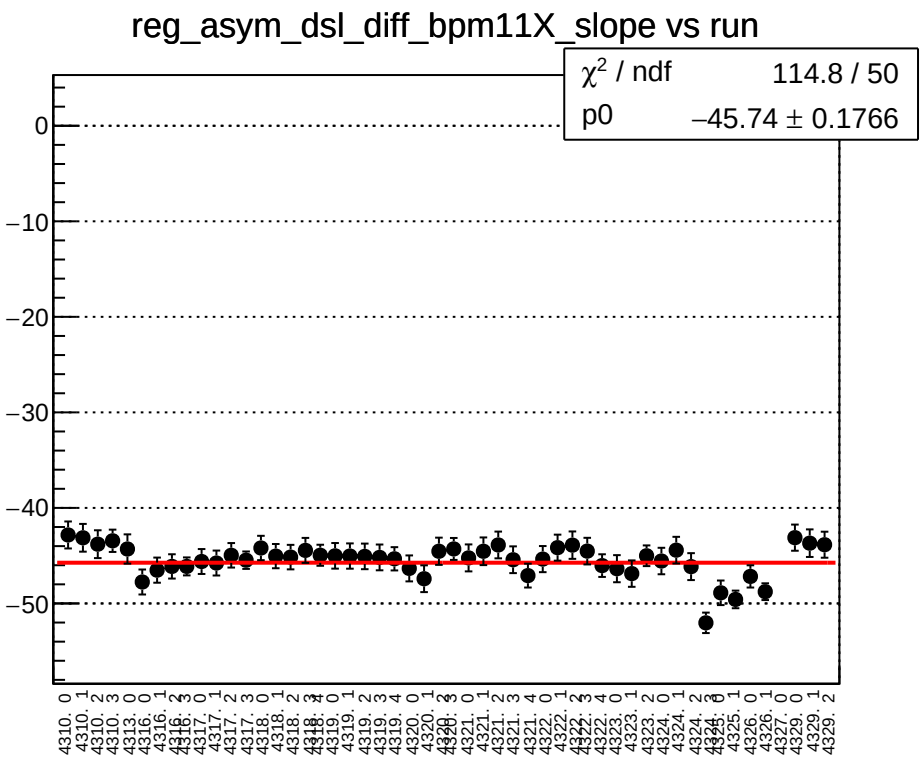
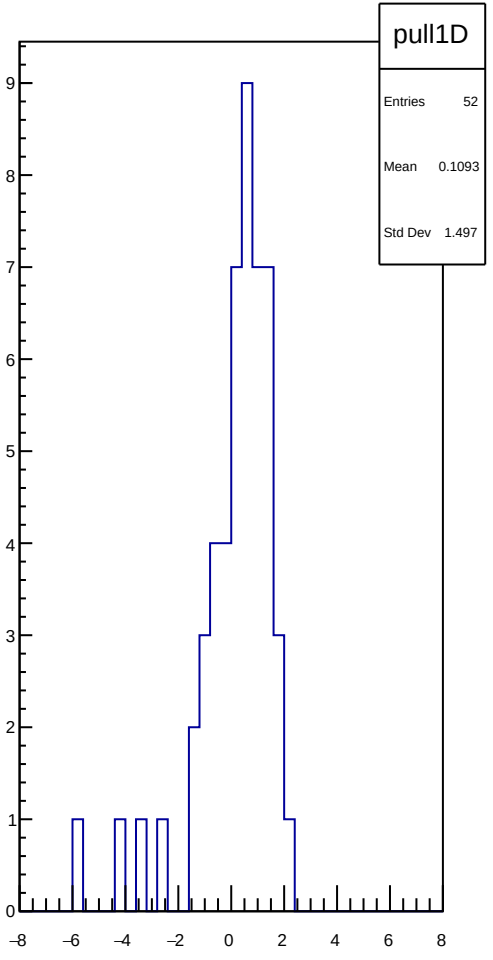
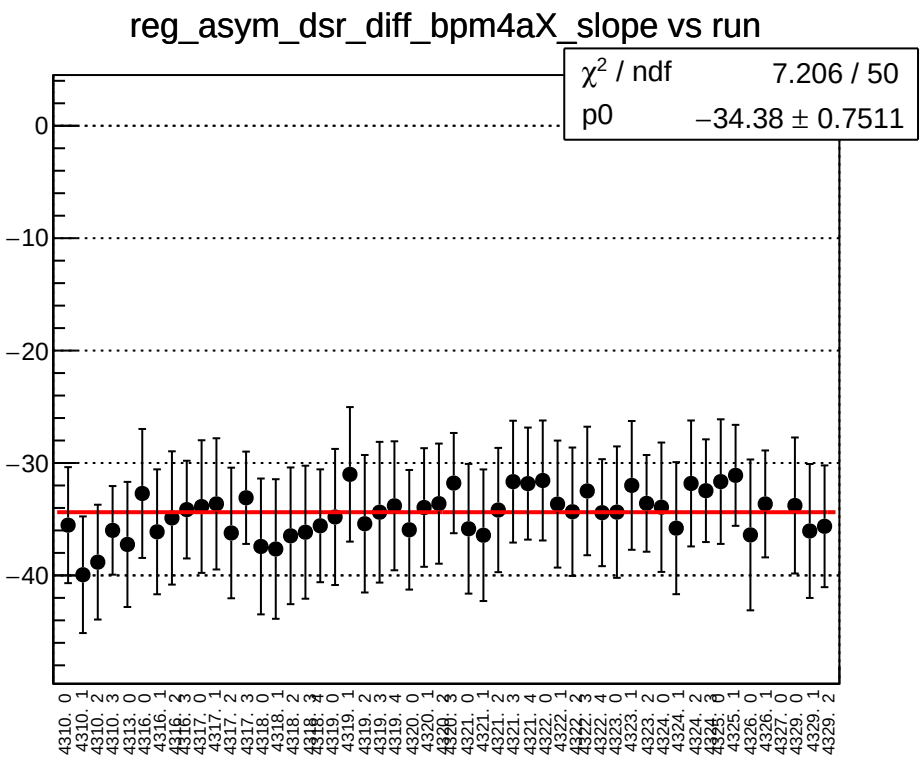
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 114.8 / 50
p0 −45.74 ± 0.1766
0
−10
−20
−30
−40
−50


pull1D
Entries 52
Mean 0.1093
Std Dev 1.497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 7.206 / 50
p0 −34.38 ± 0.7511
0
−10
−20
−30
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 1
4324. 2
4325. 1
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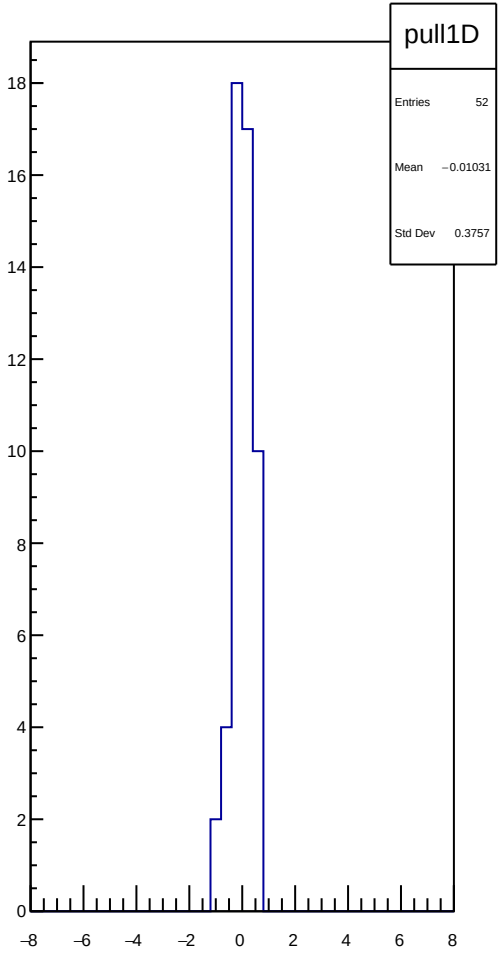
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.01031
Std Dev 0.3757
18
16
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12
10
8
6
4
2
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−8
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−4
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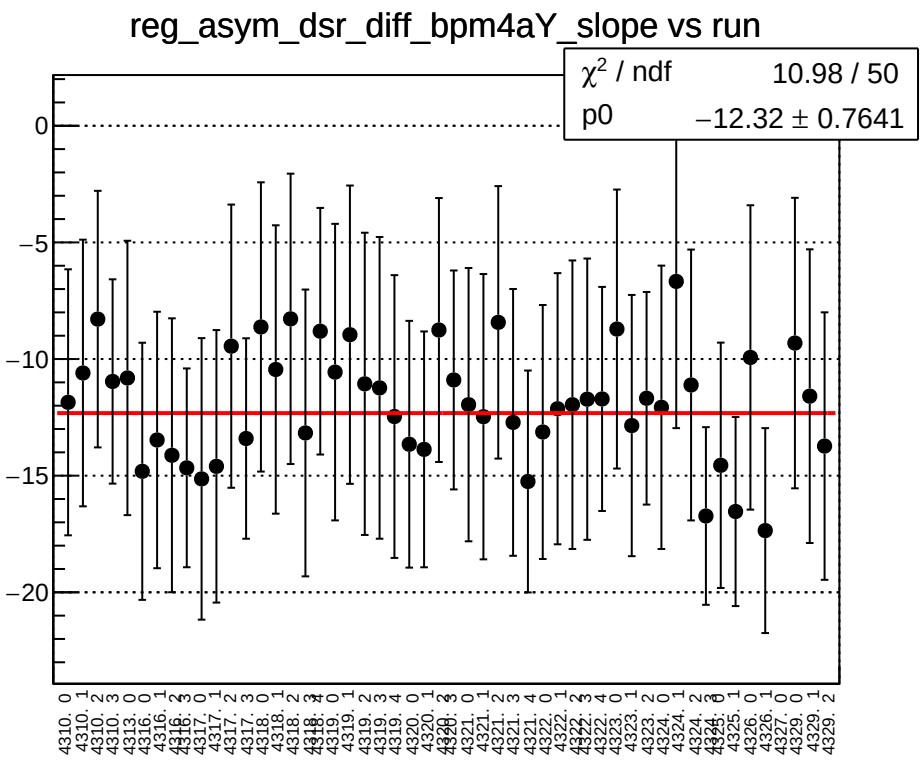
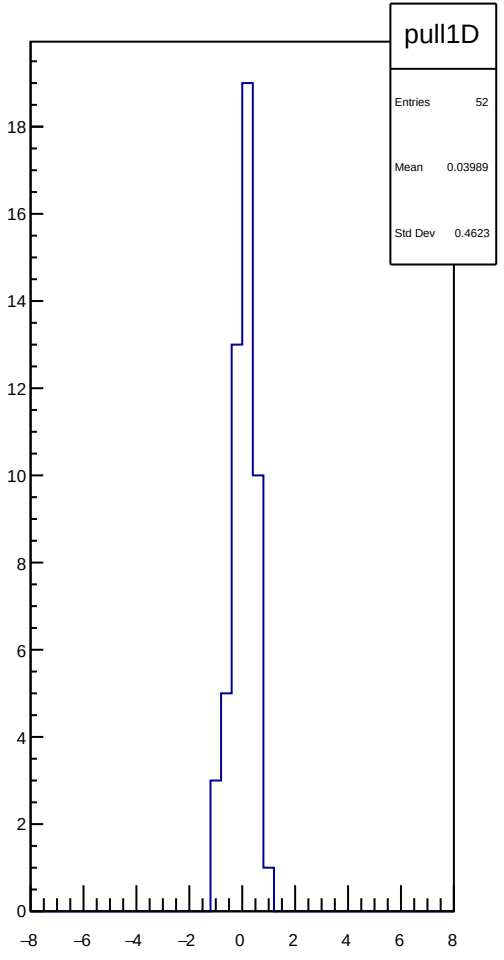
2
4
6
8


reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 10.98 / 50
p0 −12.32 ± 0.7641
0
−5
−10
−15
−20


pull1D
Entries 52
Mean 0.03989
Std Dev 0.4623
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16
14
12
10
8
6
4
2
0
−8
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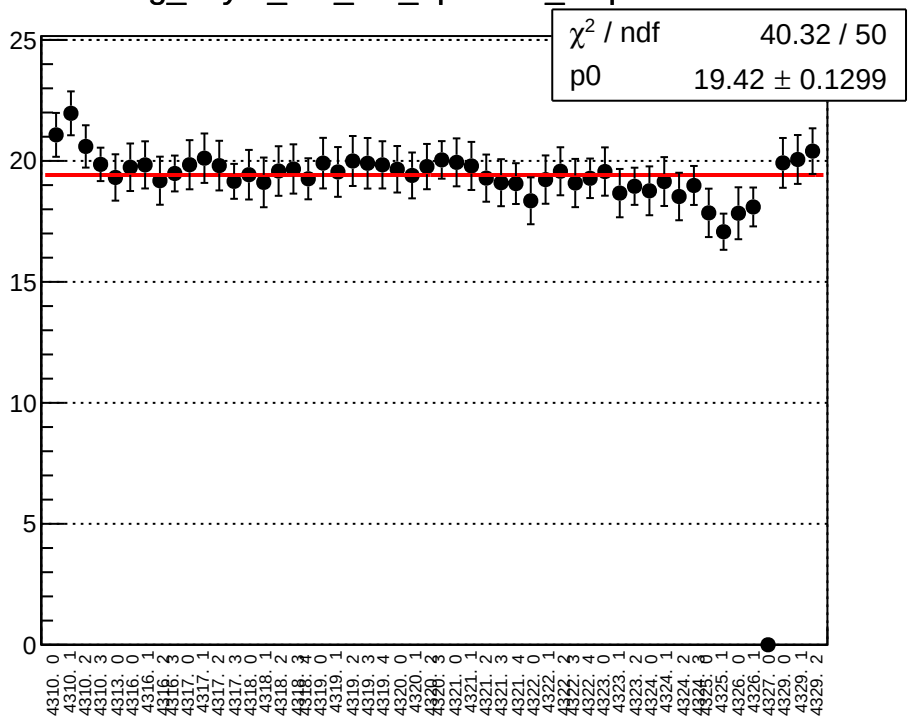
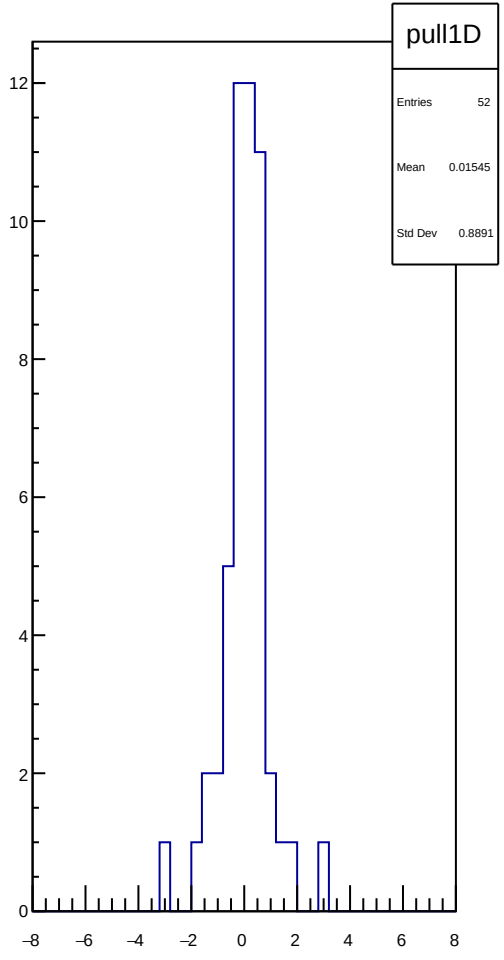
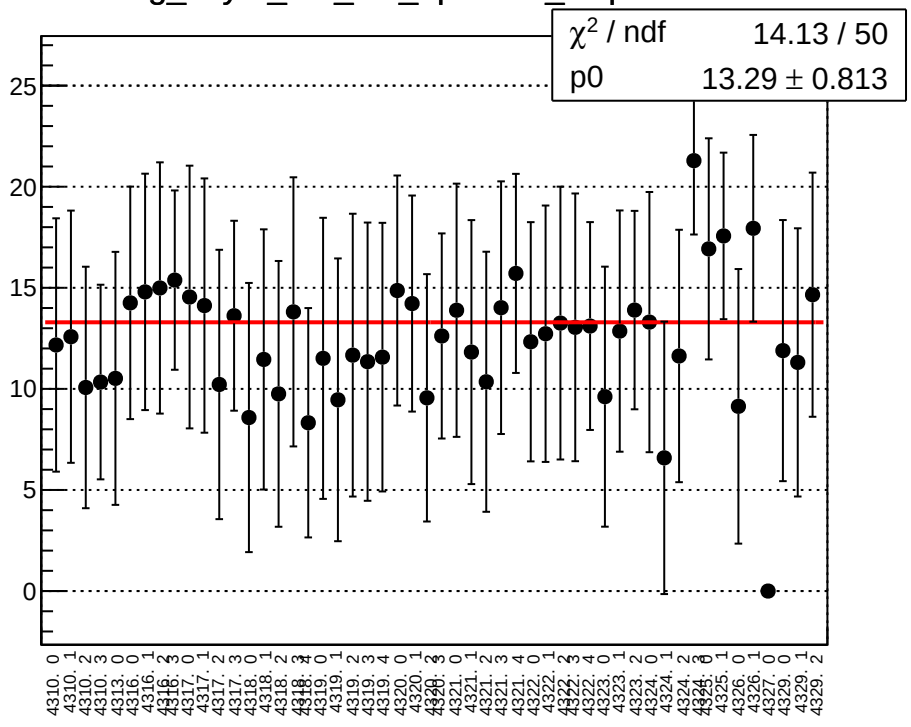
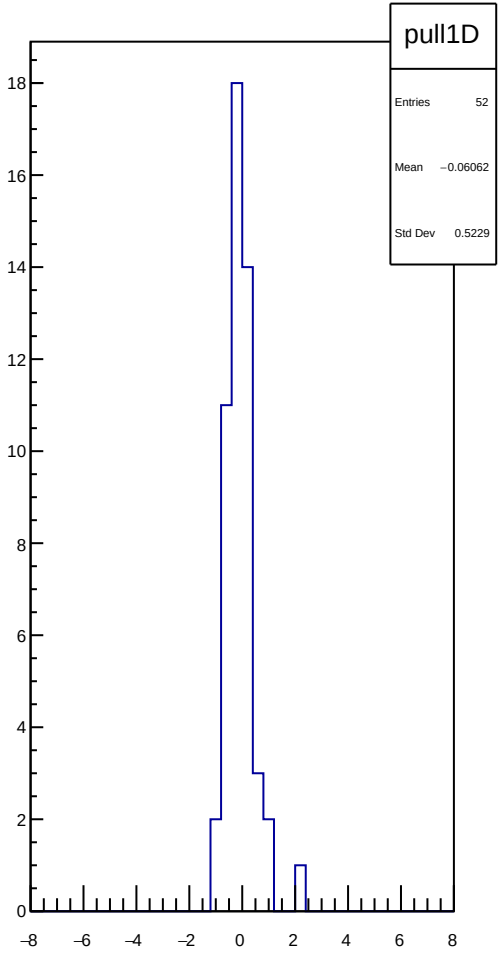
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 40.32 / 50
p0 19.42 ± 0.1299
25
20
15
10
5
0


pull1D
Entries 52
Mean 0.01545
Std Dev 0.8891
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 14.13 / 50
p0 13.29 ± 0.813
25
20
15
10
5
0


pull1D
Entries 52
Mean −0.06062
Std Dev 0.5229
18
16
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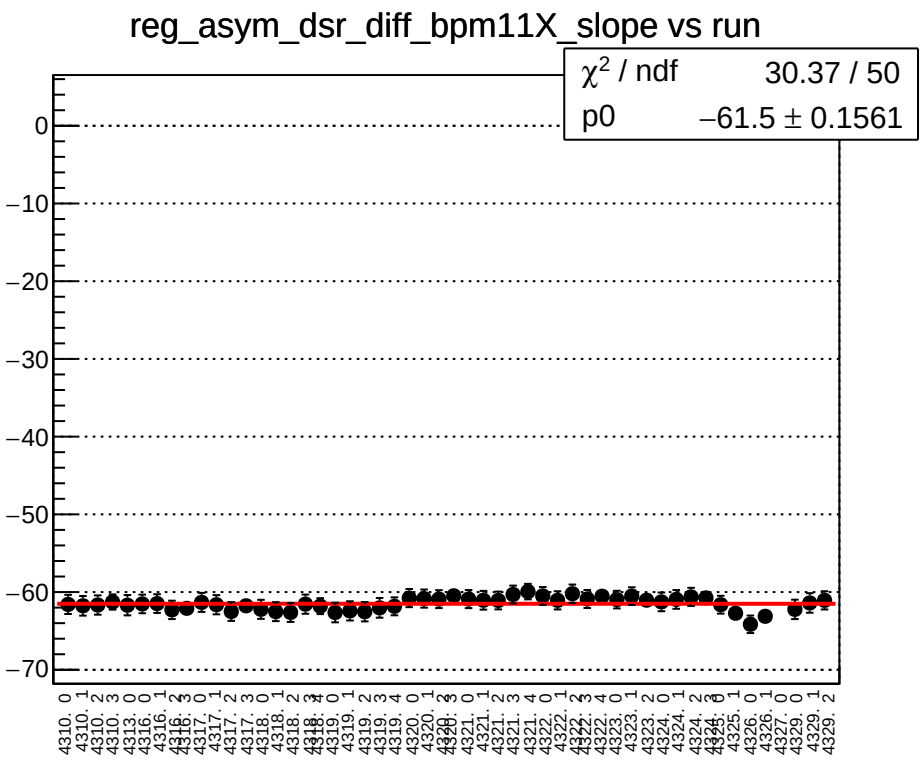
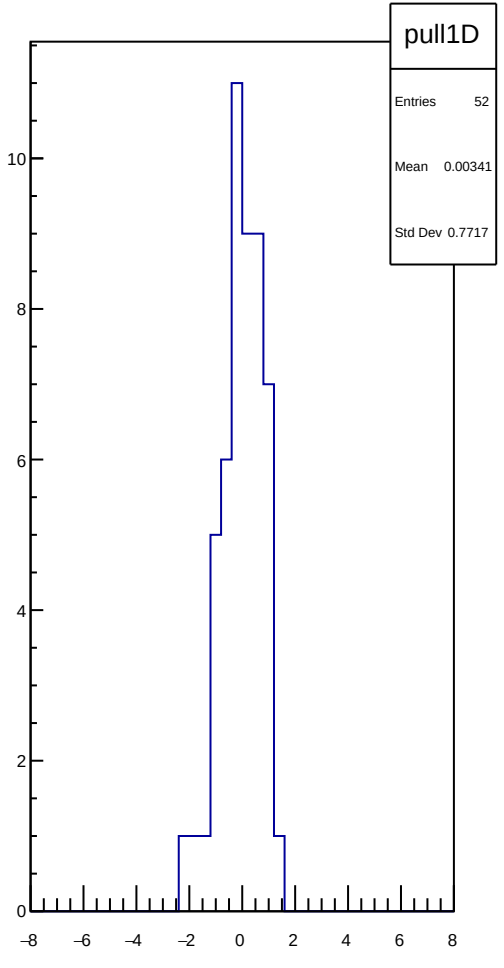
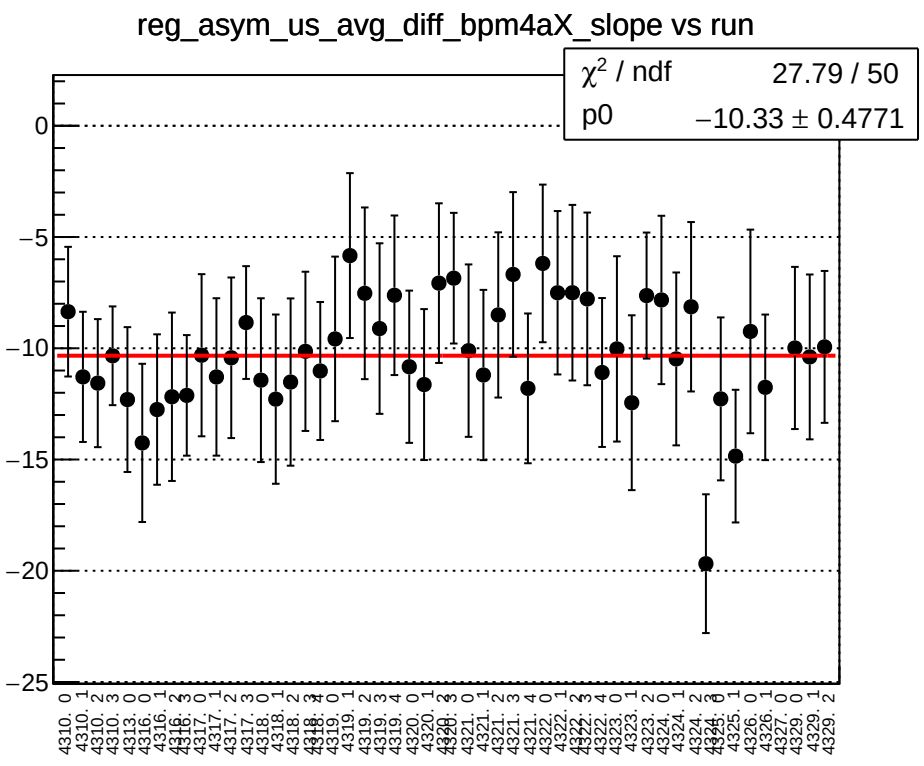
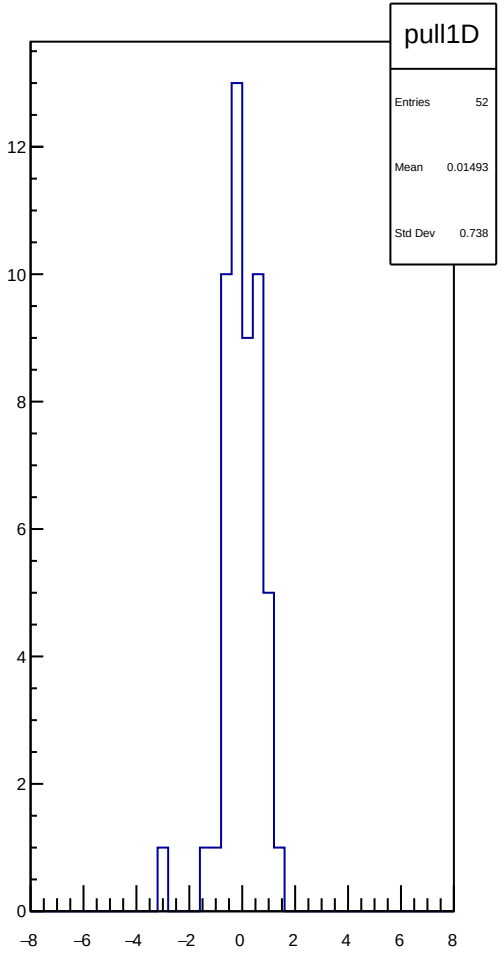
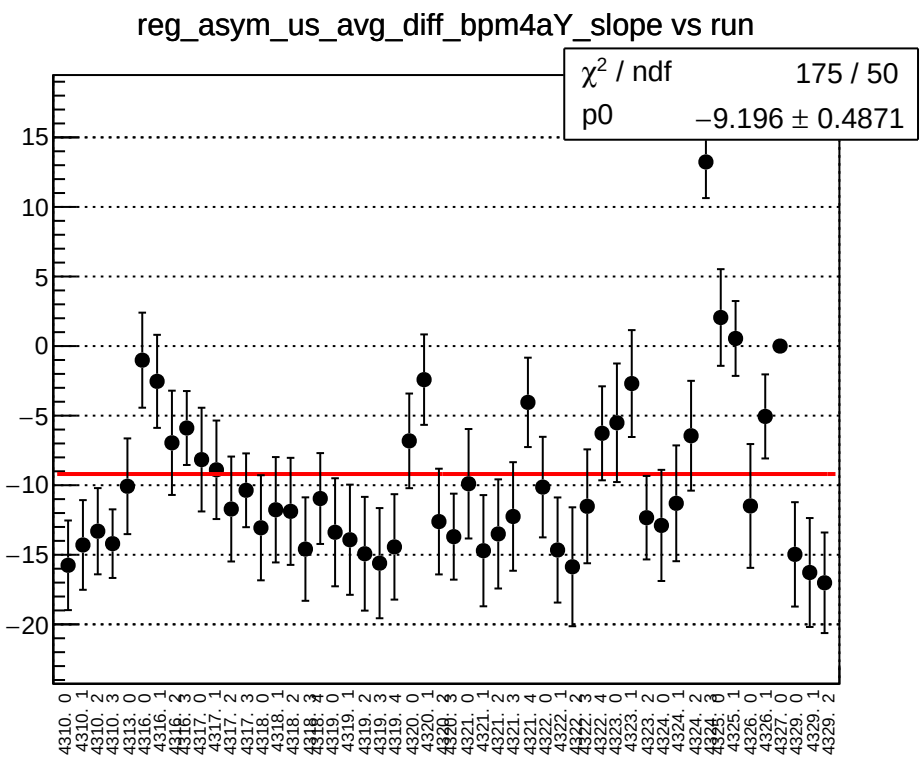
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 30.37 / 50
p0 −61.5 ± 0.1561
0
−10
−20
−30
−40
−50
−60
−70


pull1D
Entries 52
Mean 0.00341
Std Dev 0.7717
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.79 / 50
p0 −10.33 ± 0.4771
0
−5
−10
−15
−20
−25


pull1D
Entries 52
Mean 0.01493
Std Dev 0.738
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 175 / 50
p0 −9.196 ± 0.4871
15
10
5
0
−5
−10
−15
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 2
4325. 1
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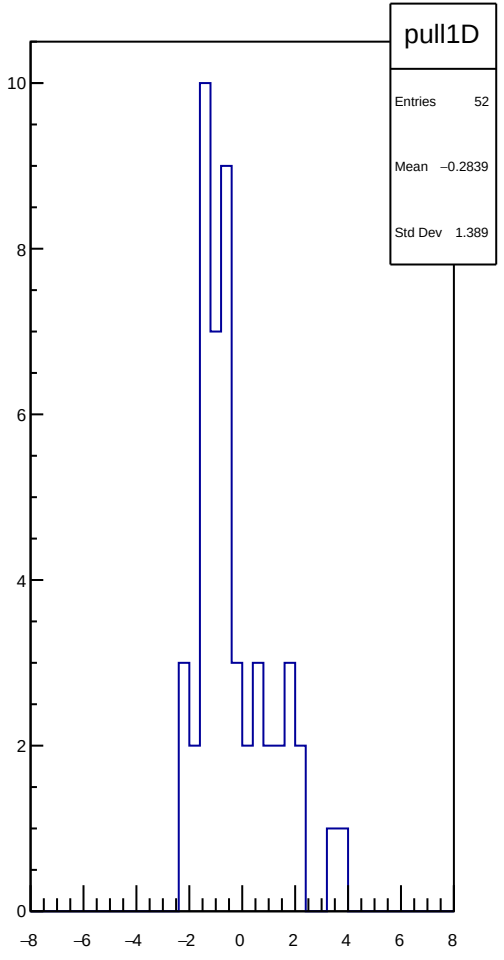
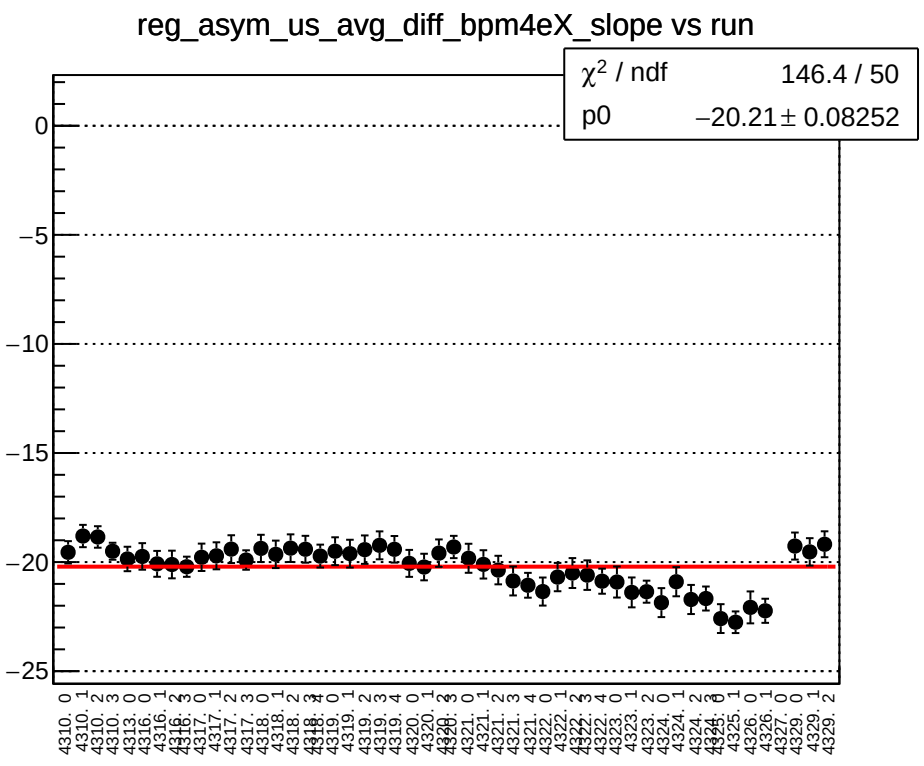
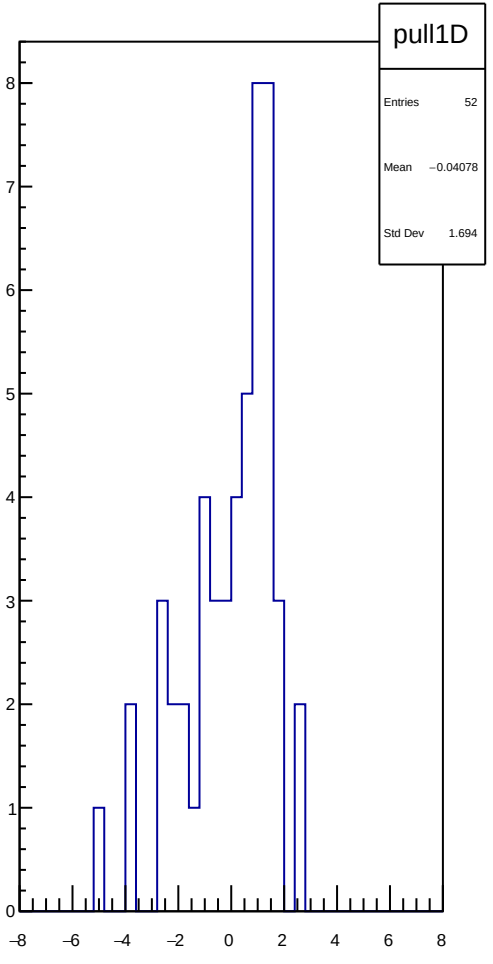
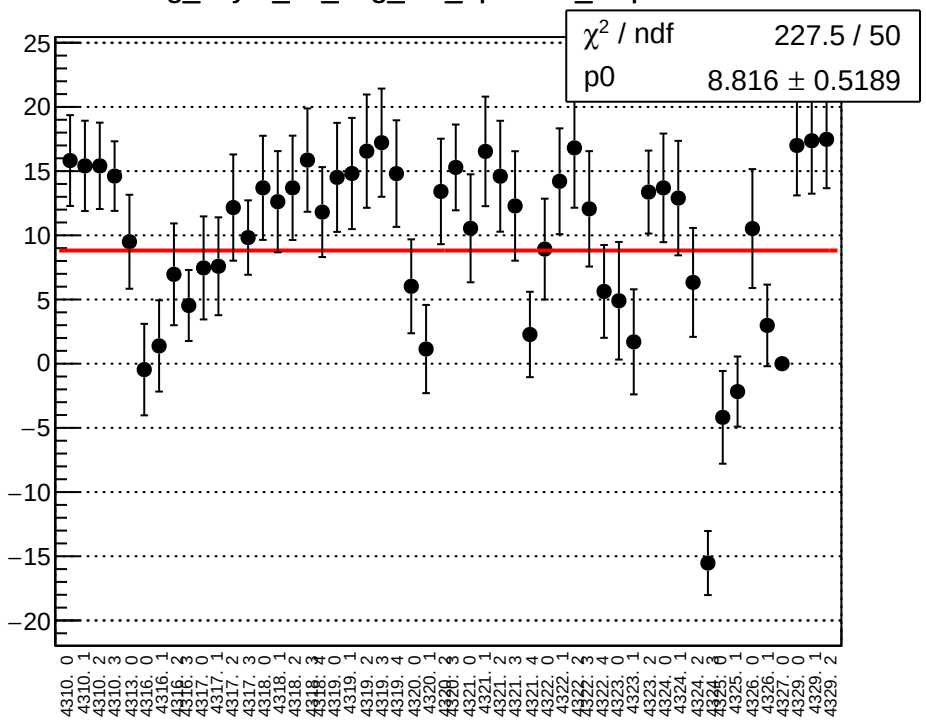
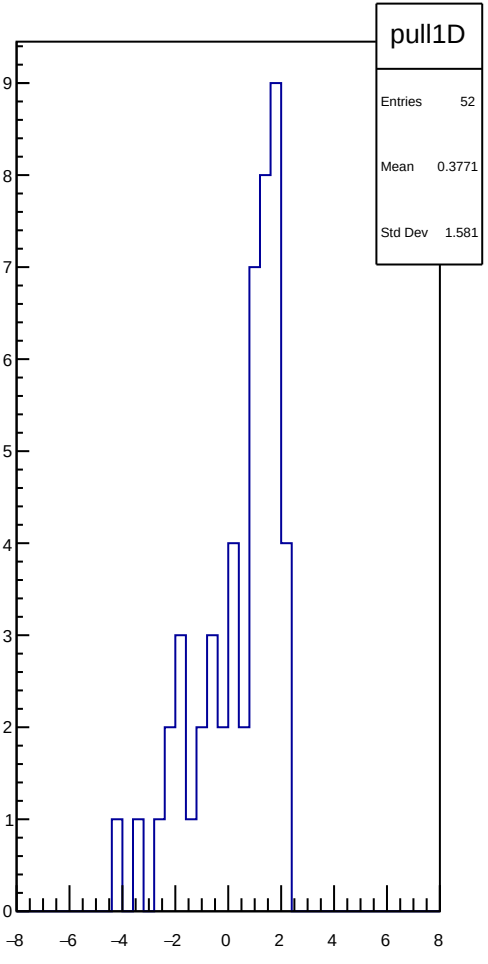
4326. 1
4327. 0
4329. 1
4329. 2

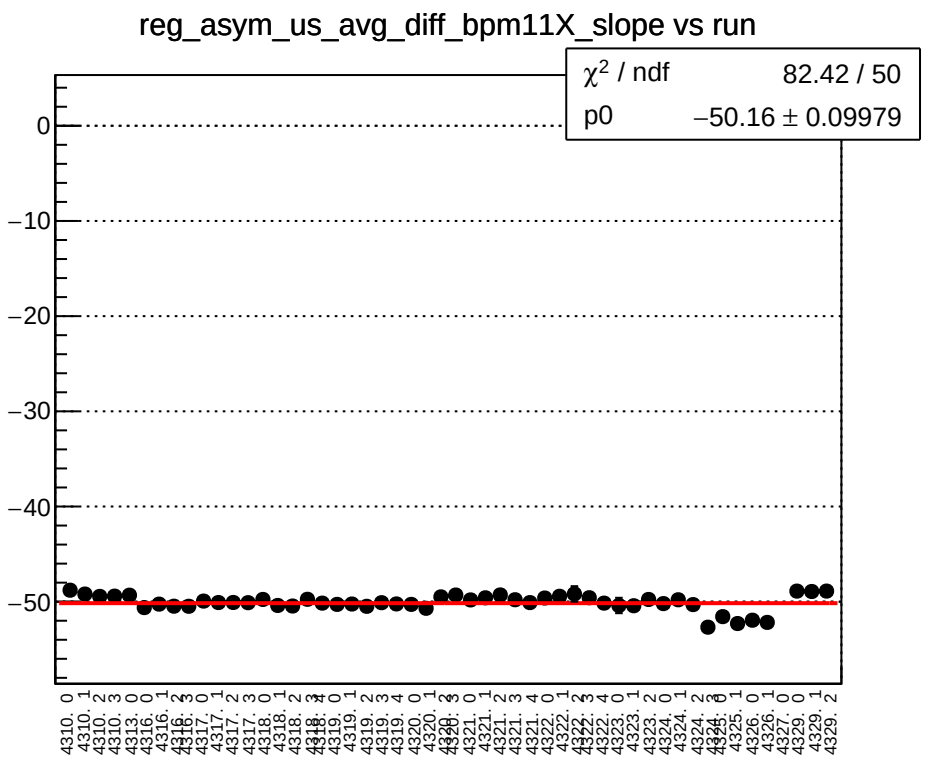

pull1D
Entries 52
Mean −0.2839
Std Dev 1.389
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

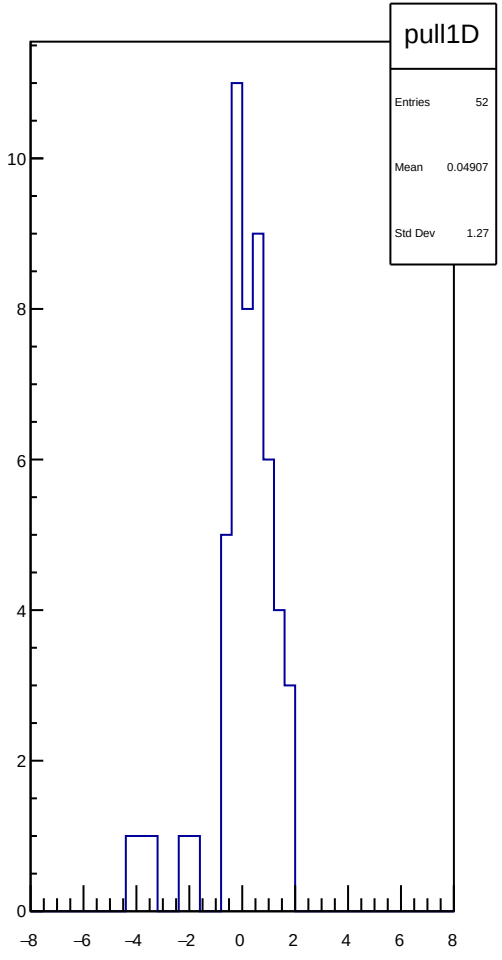

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 146.4 / 50
p0 −20.21 ± 0.08252
0
−5
−10
−15
−20
−25

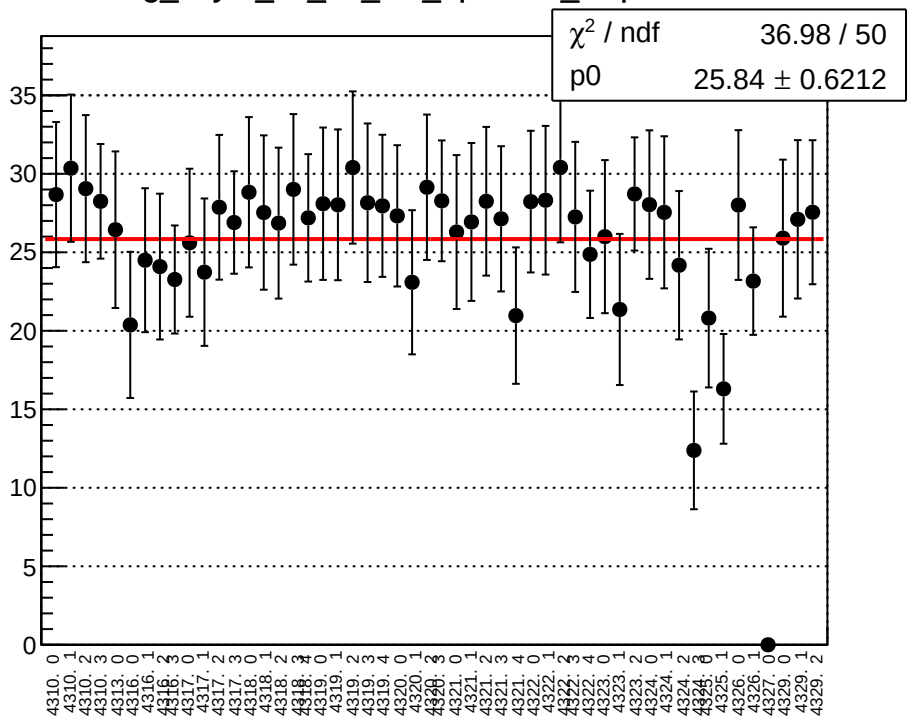

pull1D
Entries 52
Mean −0.04078
Std Dev 1.694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

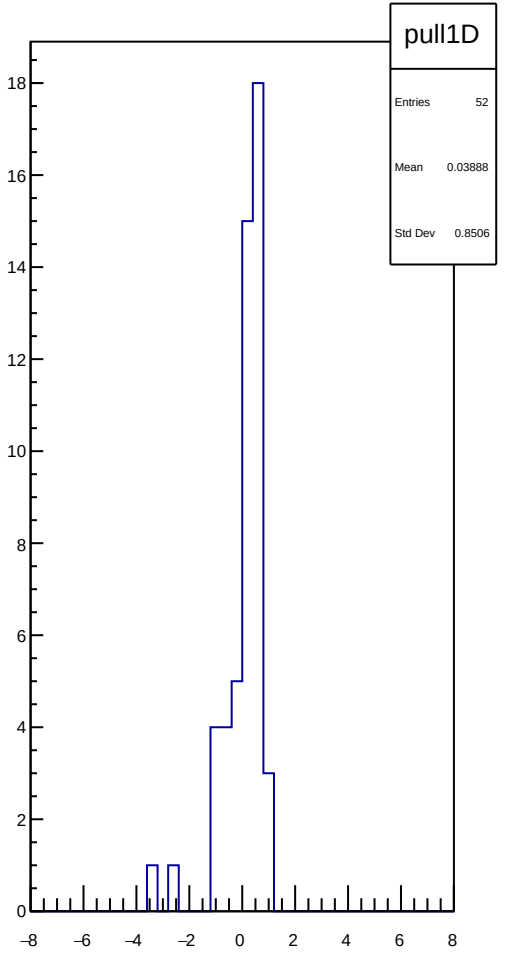

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 227.5 / 50
p0 8.816 ± 0.5189

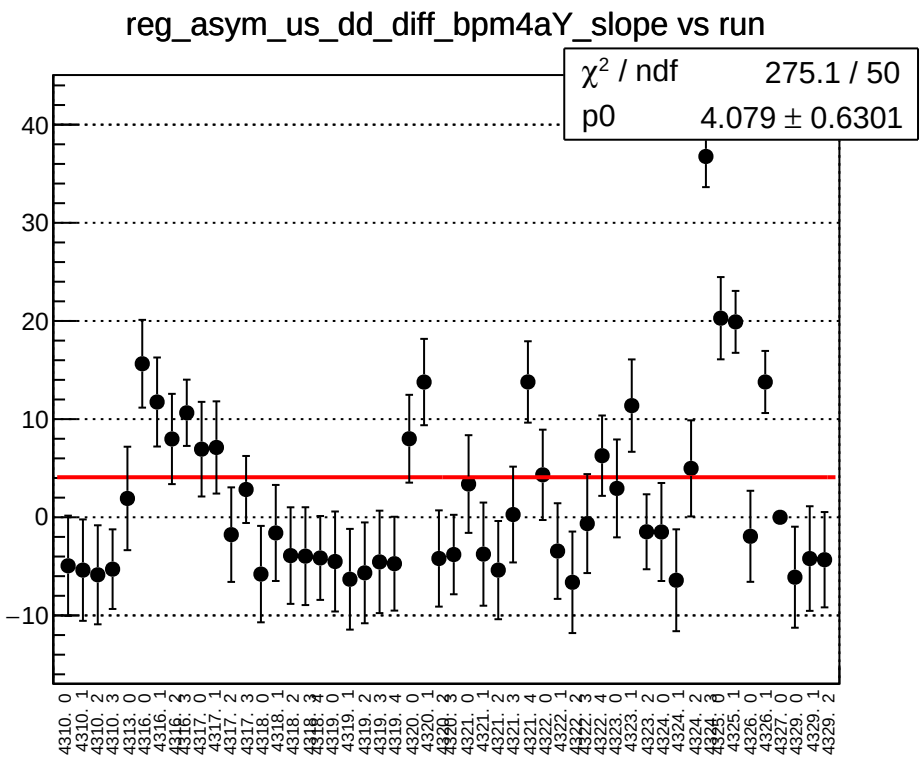

pull1D
Entries 52
Mean 0.3771
Std Dev 1.581

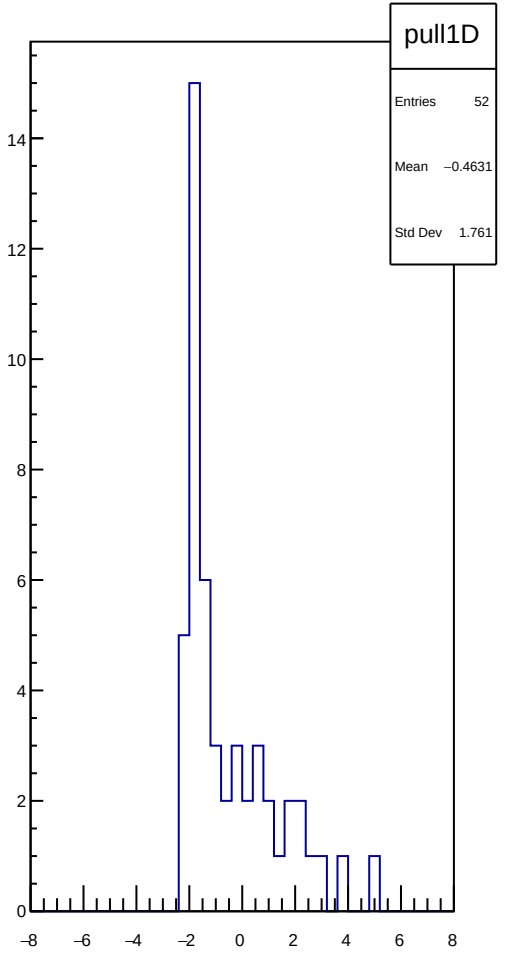

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 82.42 / 50
p0 −50.16 ± 0.09979
0
−10
−20
−30
−40
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

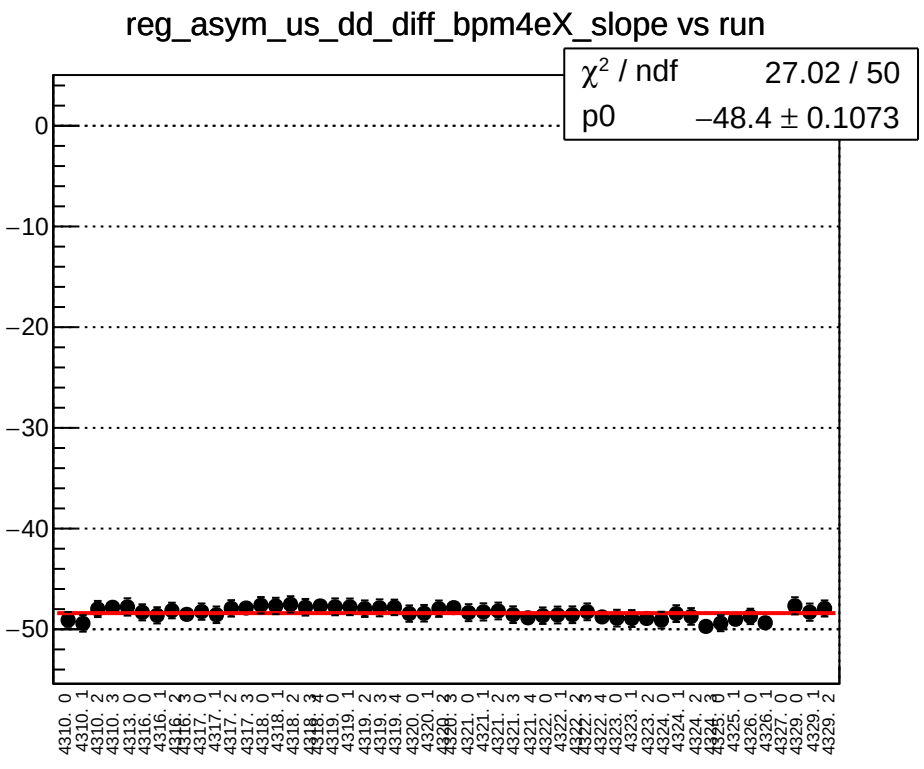

pull1D
Entries 52
Mean 0.04907
Std Dev 1.27
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

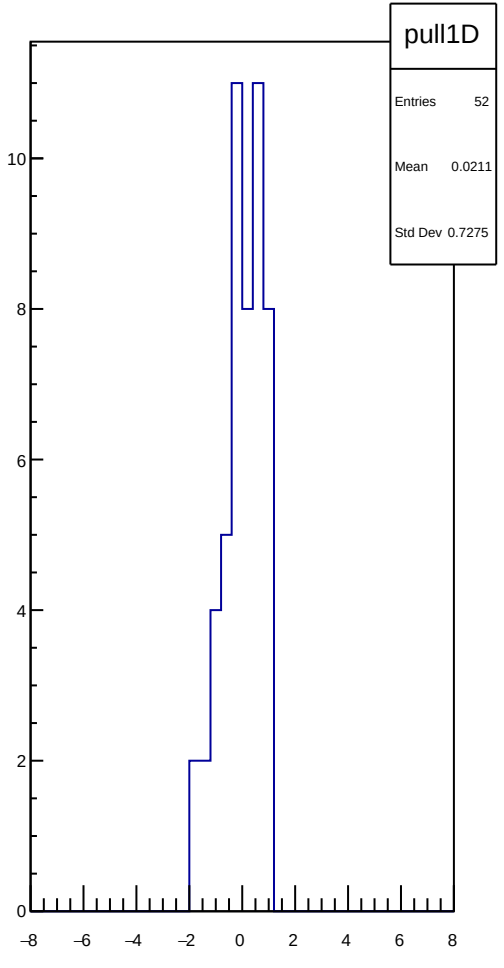

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.98 / 50
p0 25.84 ± 0.6212

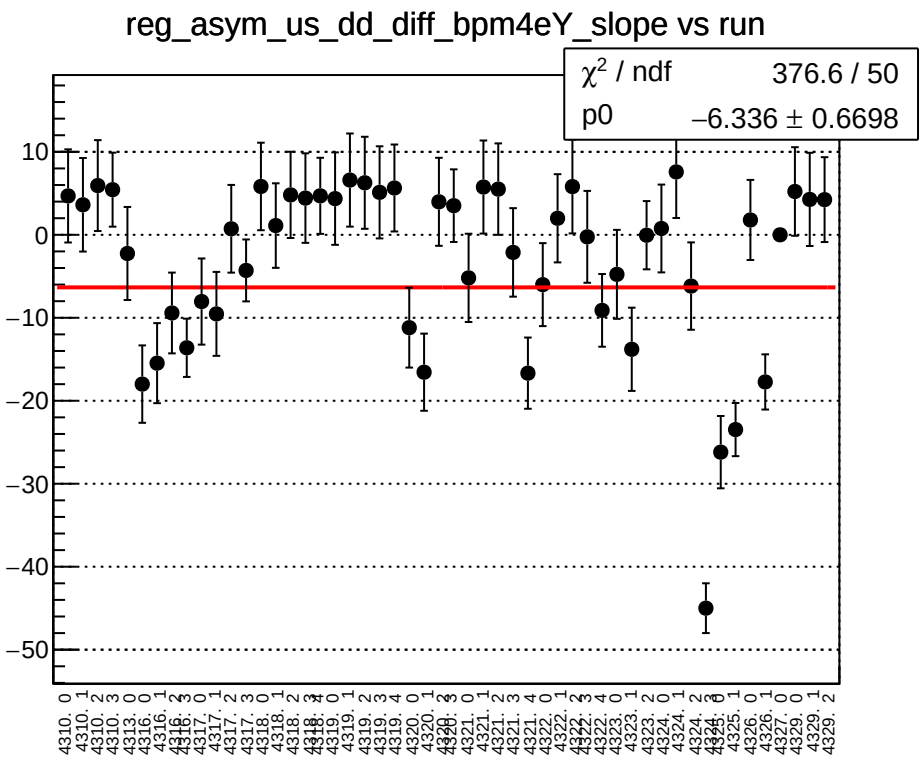

pull1D
Entries 52
Mean 0.03888
Std Dev 0.8506

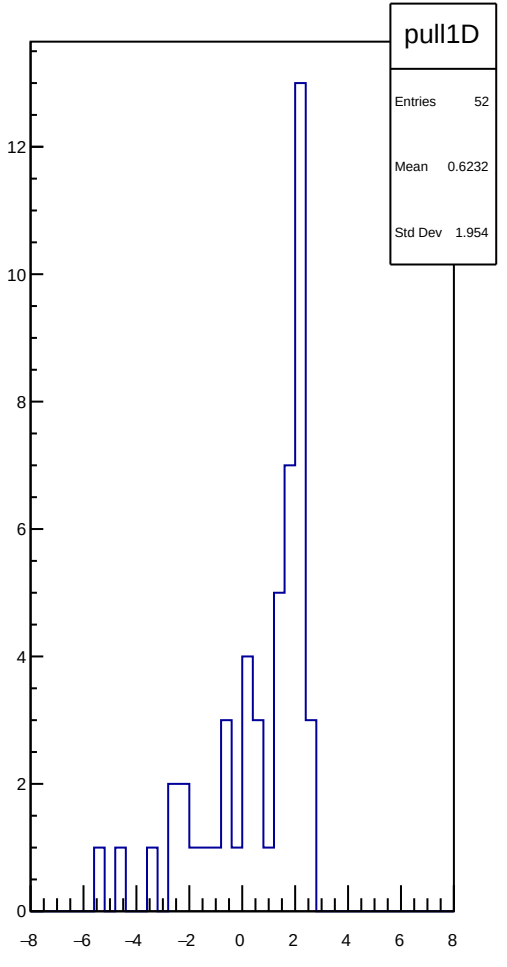

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 275.1 / 50
p0 4.079 ± 0.6301
40
30
20
10
0
−10
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

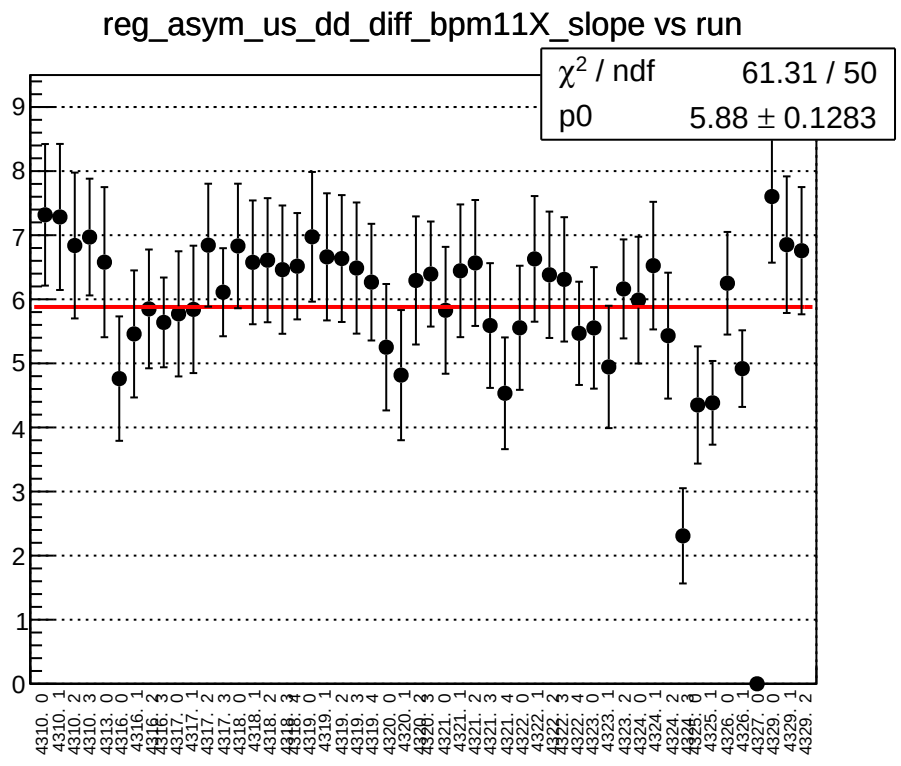

pull1D
Entries 52
Mean −0.4631
Std Dev 1.761
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

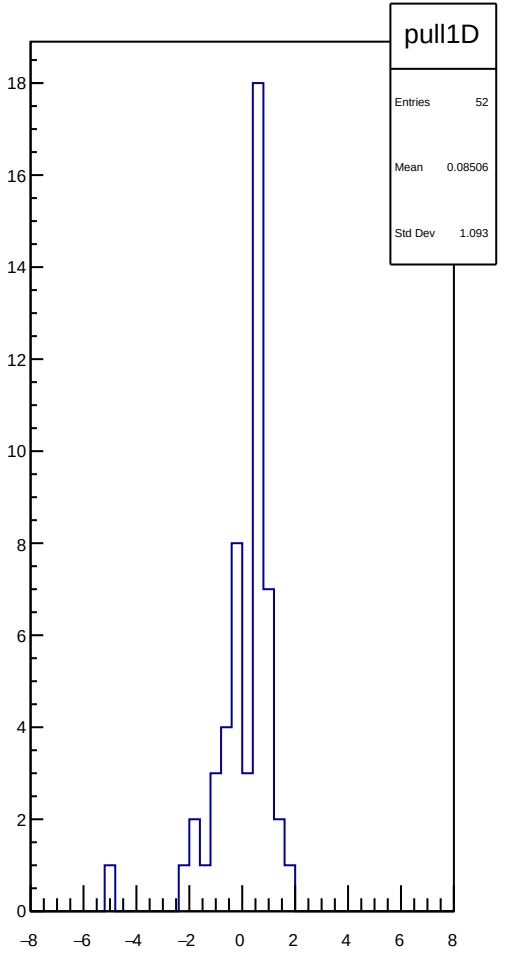

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.02 / 50
p0 −48.4 ± 0.1073
0
−10
−20
−30
−40
−50

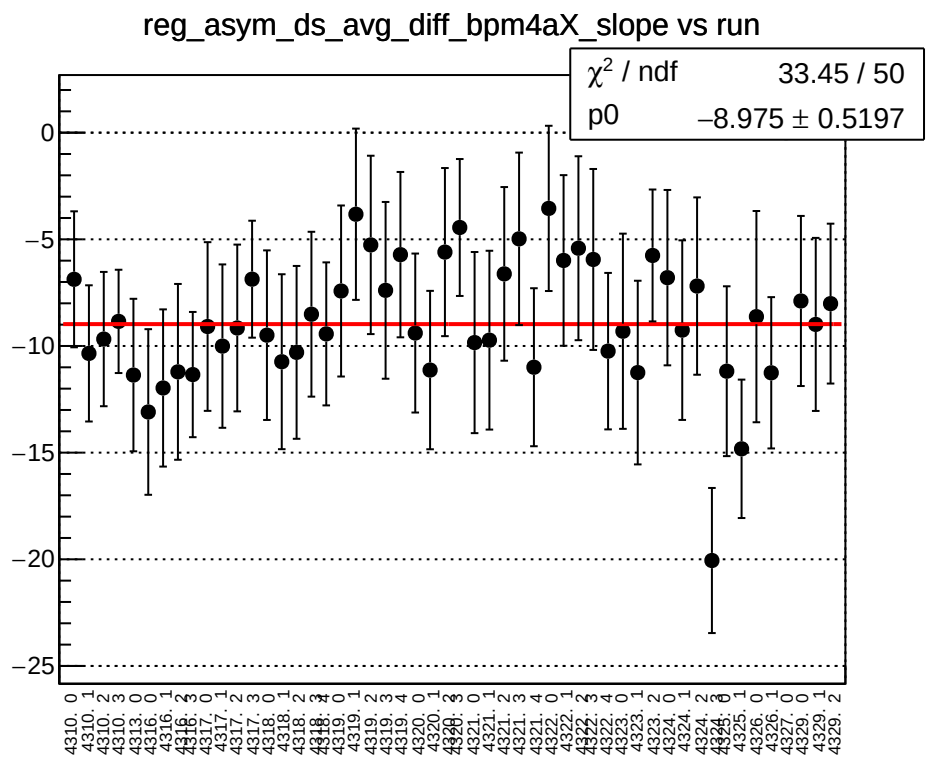

pull1D
Entries 52
Mean 0.0211
Std Dev 0.7275
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

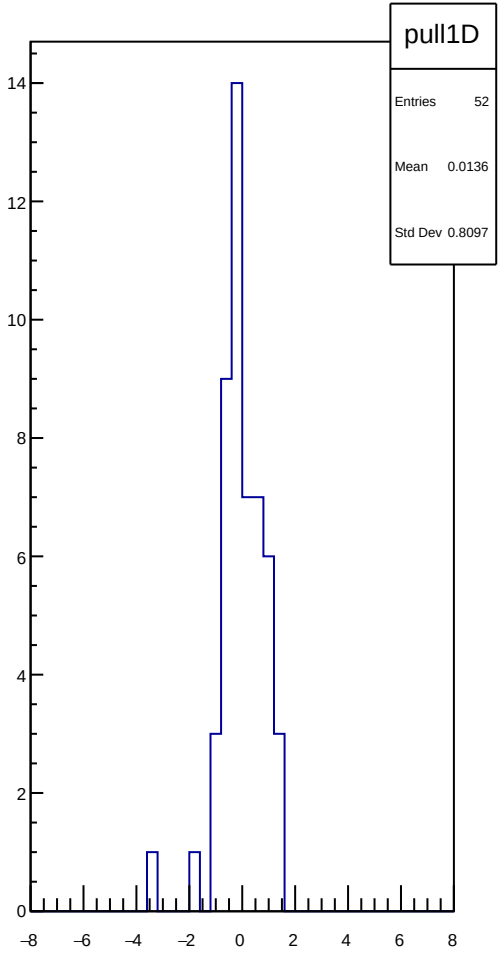

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 376.6 / 50
p0 −6.336 ± 0.6698
10
0
−10
−20
−30
−40
−50
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

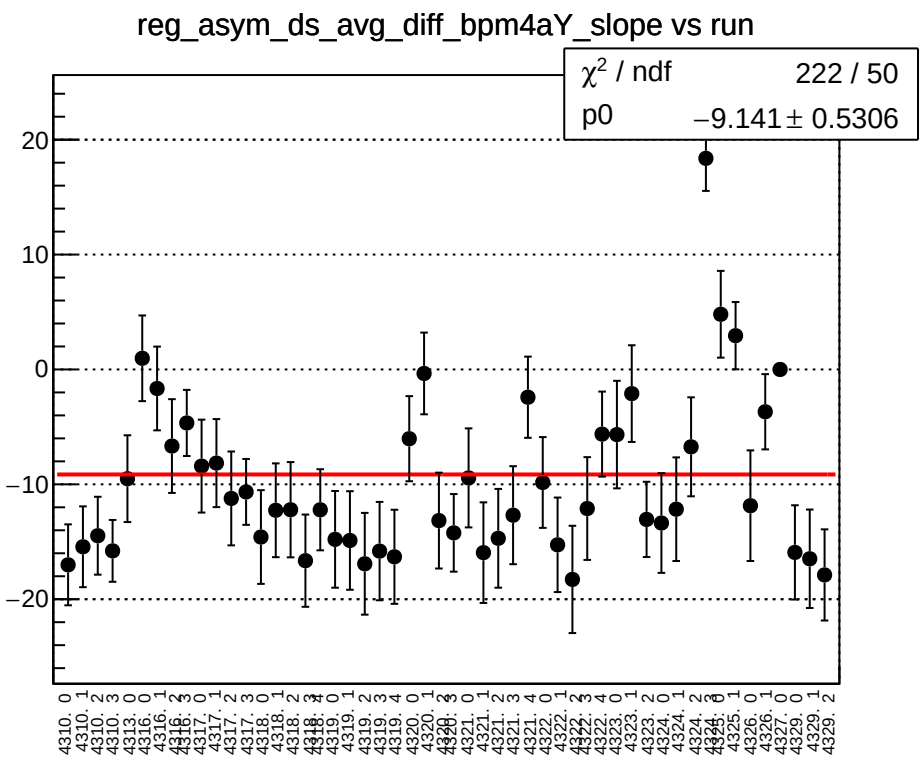

pull1D
Entries 52
Mean 0.6232
Std Dev 1.954
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

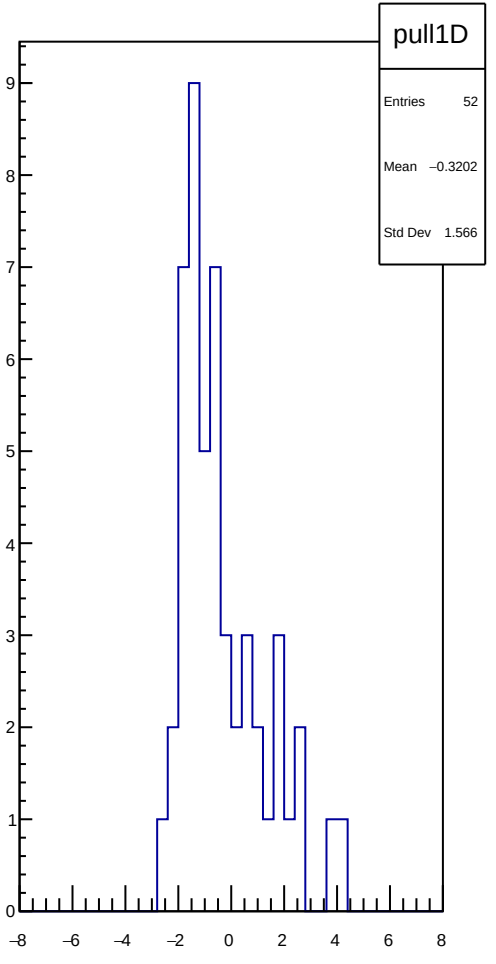

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 61.31 / 50
p0 5.88 ± 0.1283

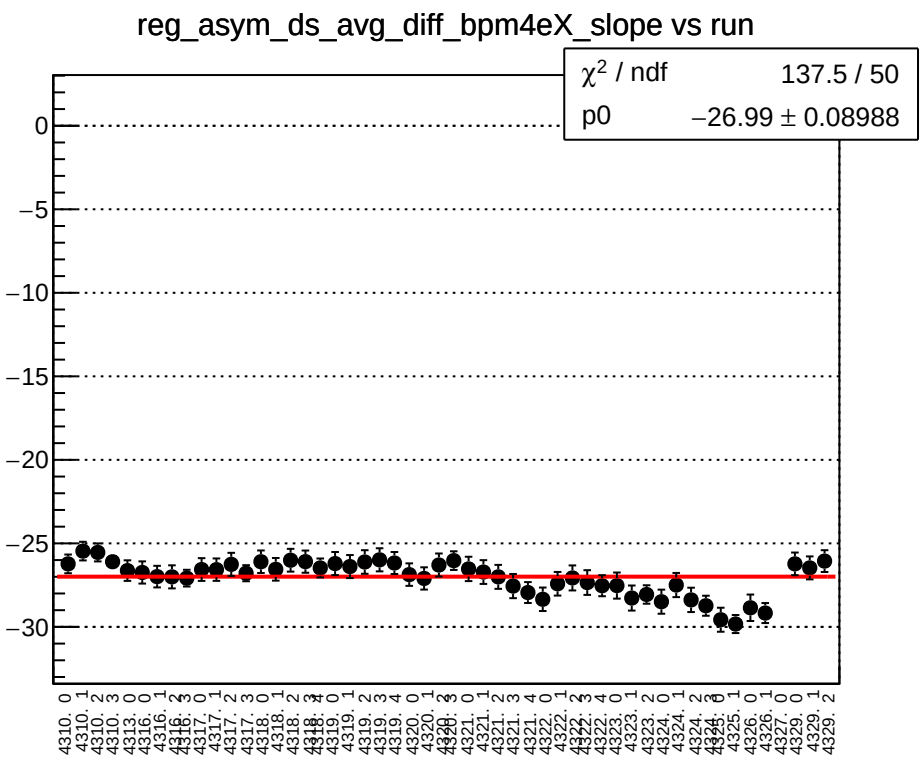

pull1D
Entries 52
Mean 0.08506
Std Dev 1.093

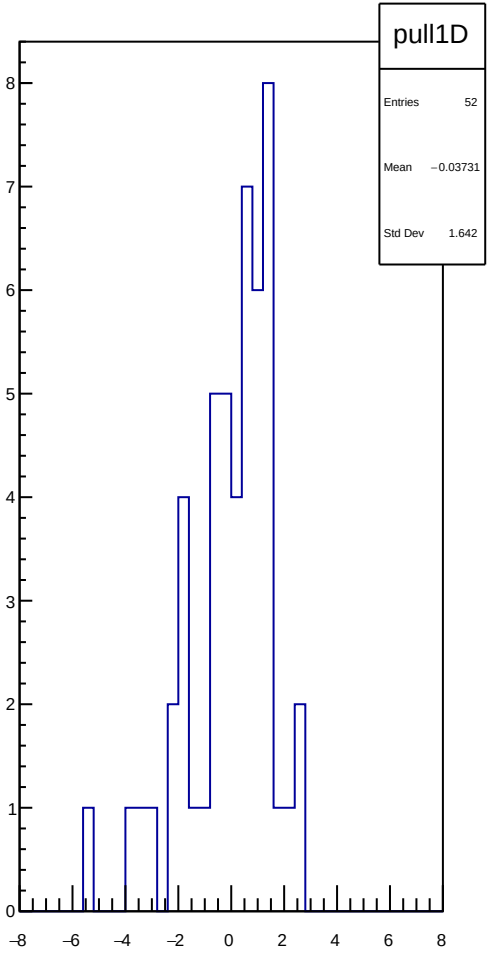

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.45 / 50
p0 −8.975 ± 0.5197
0
−5
−10
−15
−20
−25

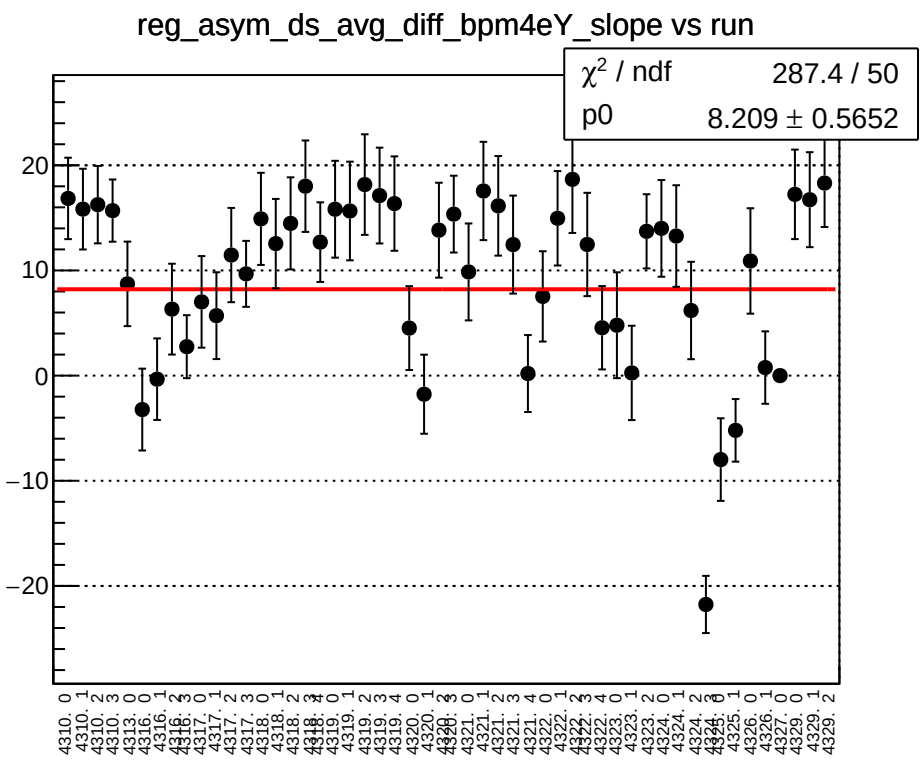

pull1D
Entries 52
Mean 0.0136
Std Dev 0.8097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

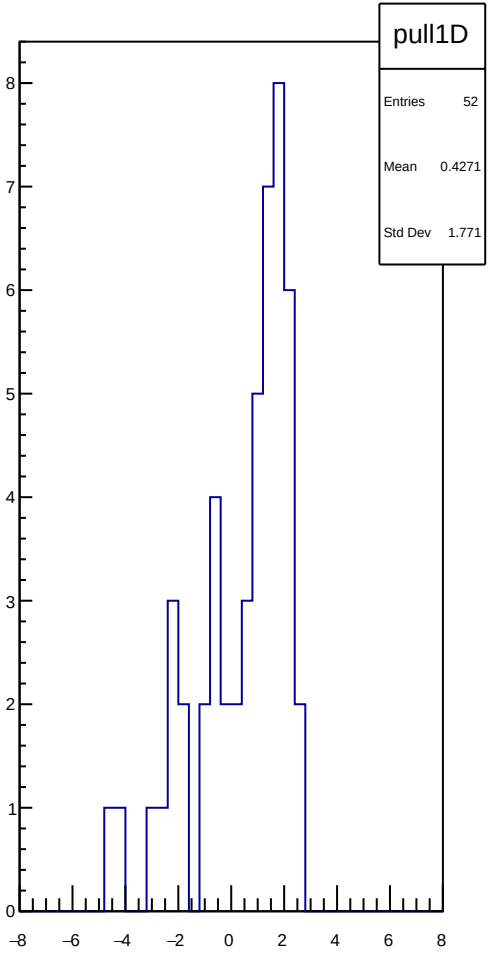

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 222 / 50
p0 −9.141 ± 0.5306
20
10
0
−10
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

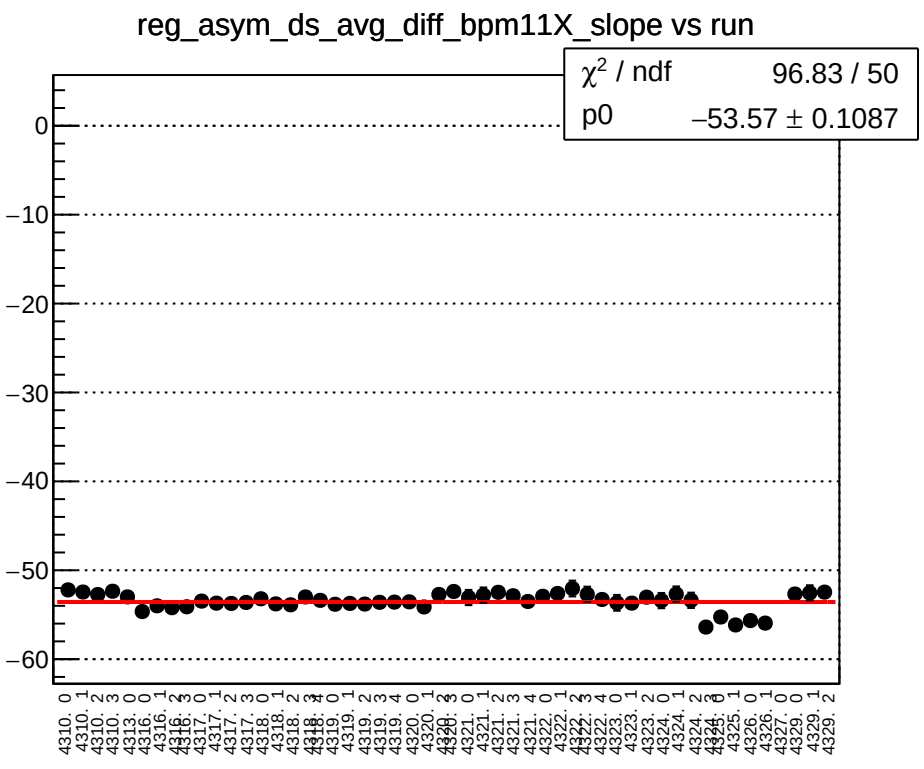

pull1D
Entries 52
Mean −0.3202
Std Dev 1.566
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

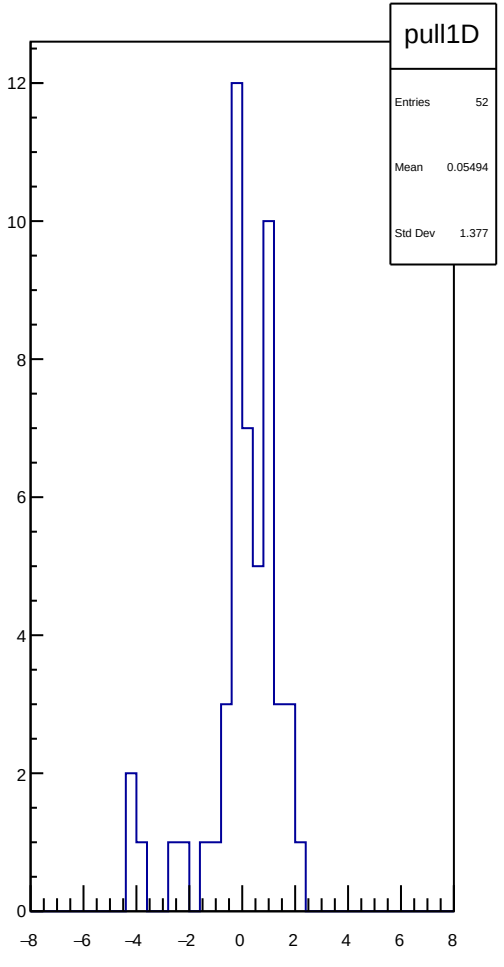

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 137.5 / 50
p0 −26.99 ± 0.08988
0
−5
−10
−15
−20
−25
−30

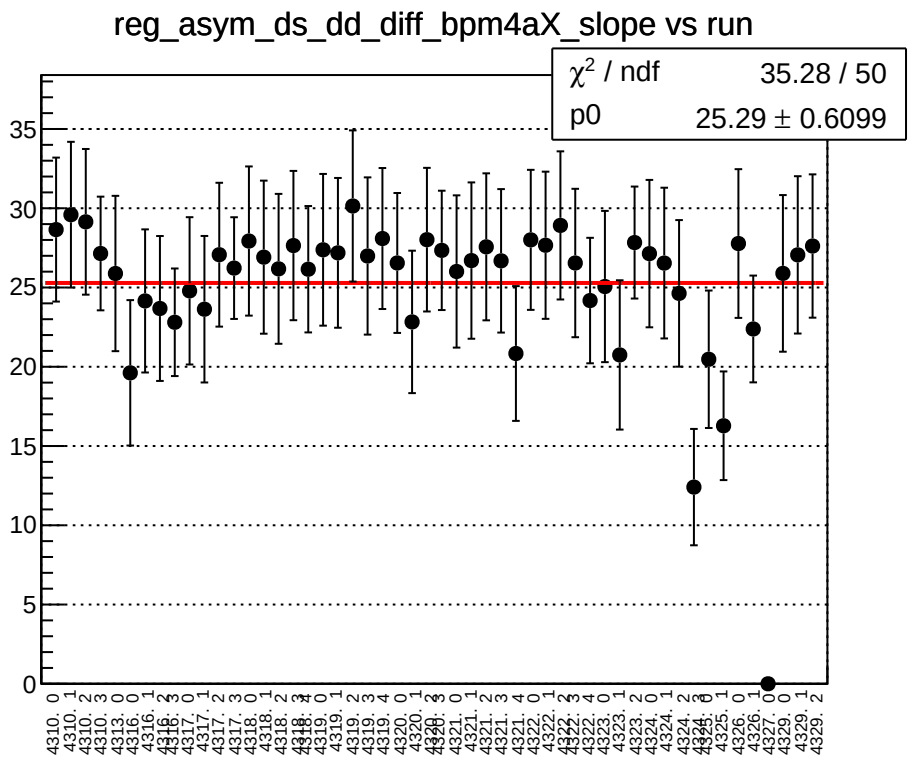

pull1D
Entries 52
Mean −0.03731
Std Dev 1.642
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

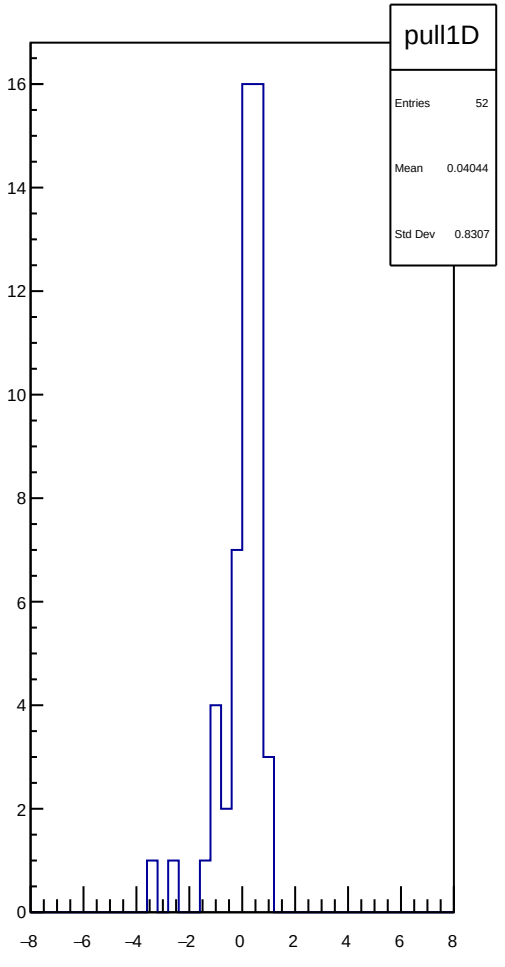

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 287.4 / 50
p0 8.209 ± 0.5652
20
10
0
−10
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

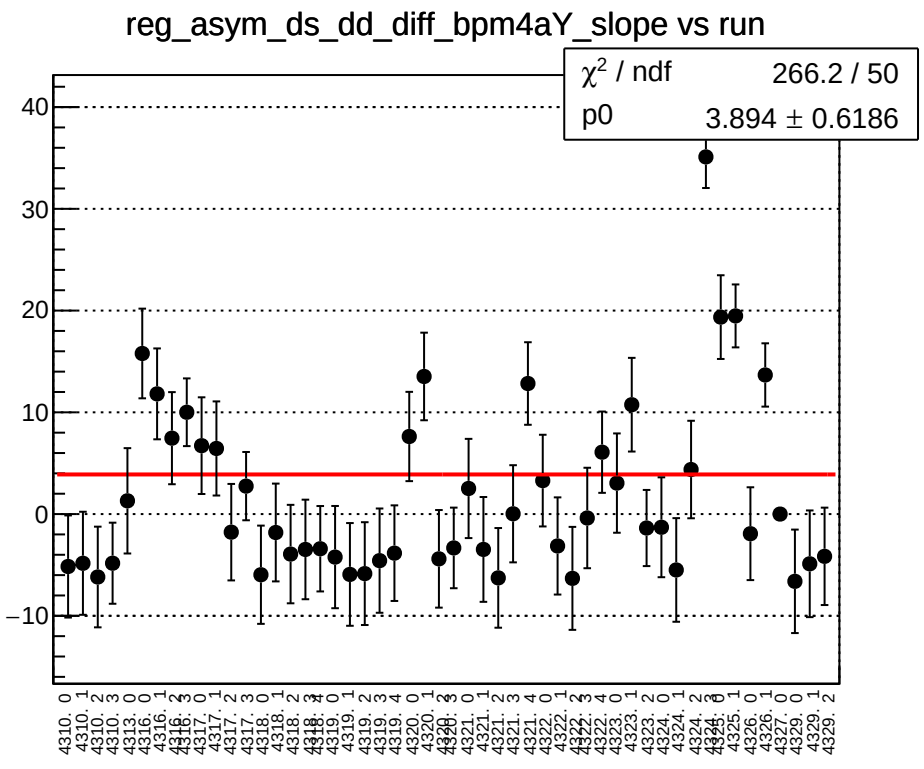

pull1D
Entries 52
Mean 0.4271
Std Dev 1.771
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

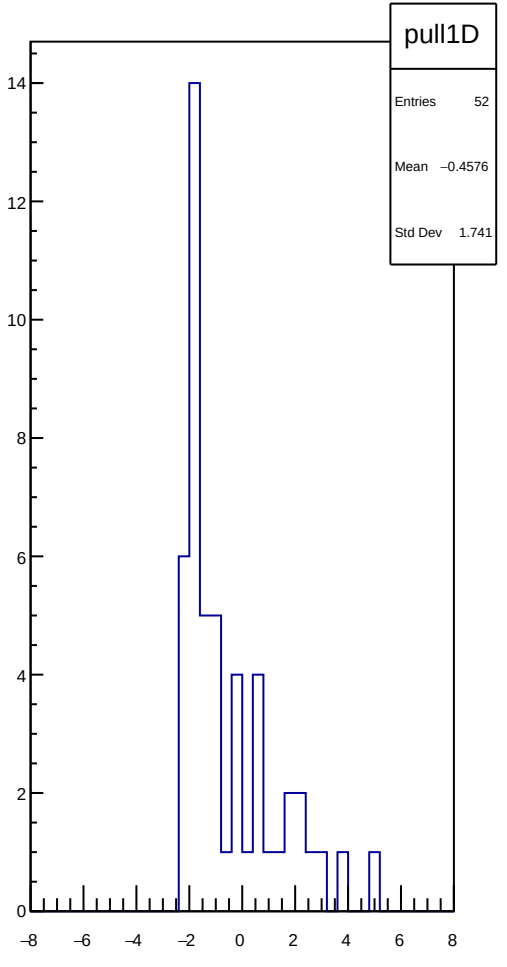

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 96.83 / 50
p0 −53.57 ± 0.1087
0
−10
−20
−30
−40
−50
−60

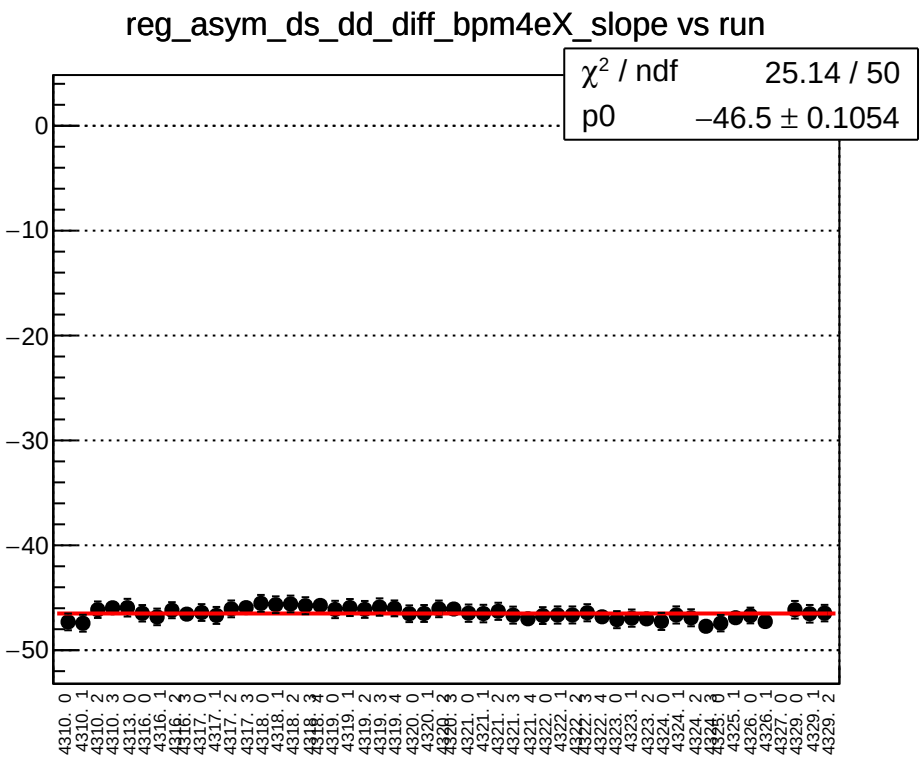

pull1D
Entries 52
Mean 0.05494
Std Dev 1.377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

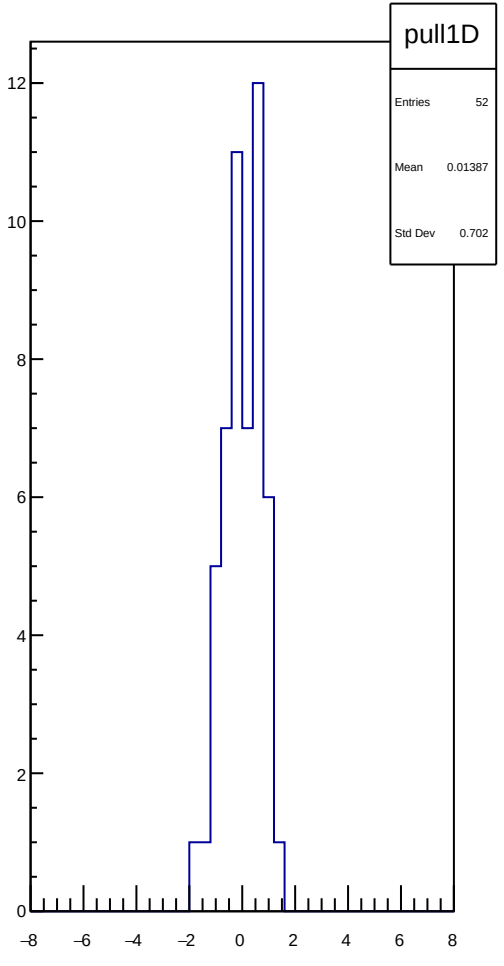

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.28 / 50
p0 25.29 ± 0.6099

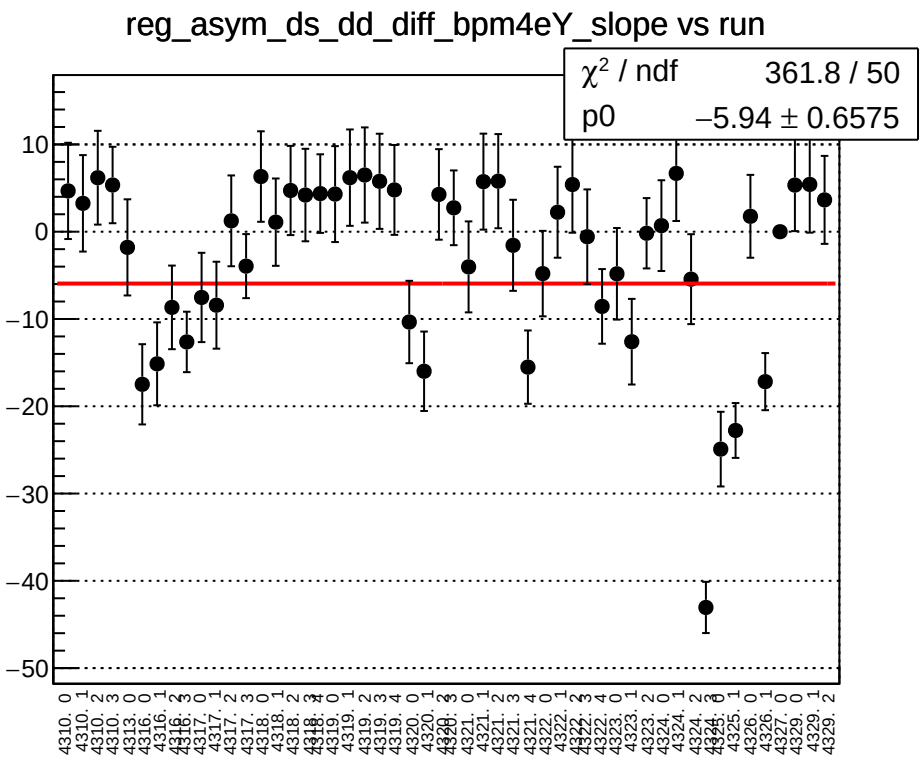

pull1D
Entries 52
Mean 0.04044
Std Dev 0.8307

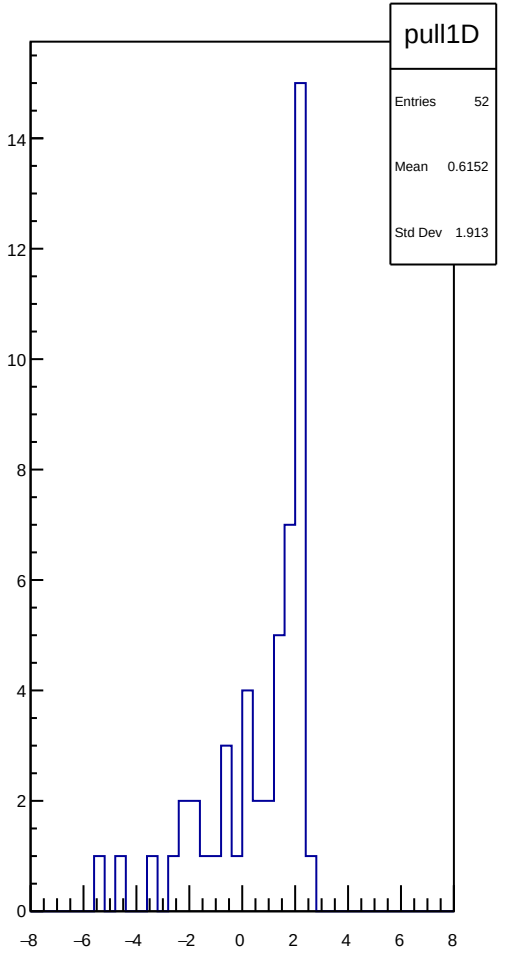

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 266.2 / 50
p0 3.894 ± 0.6186
40
30
20
10
0
−10
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

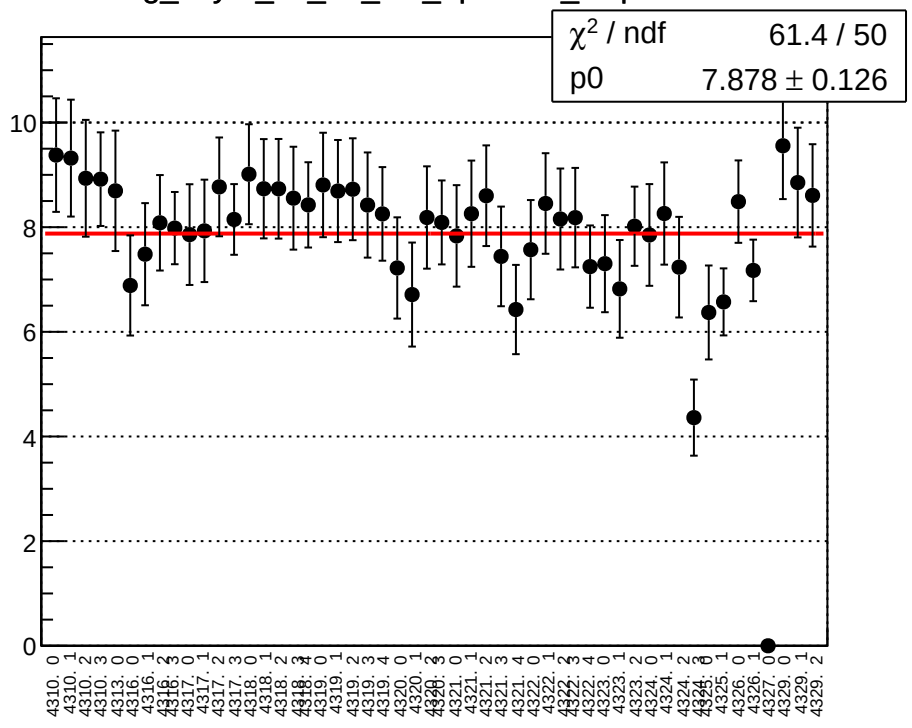

pull1D
Entries 52
Mean −0.4576
Std Dev 1.741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

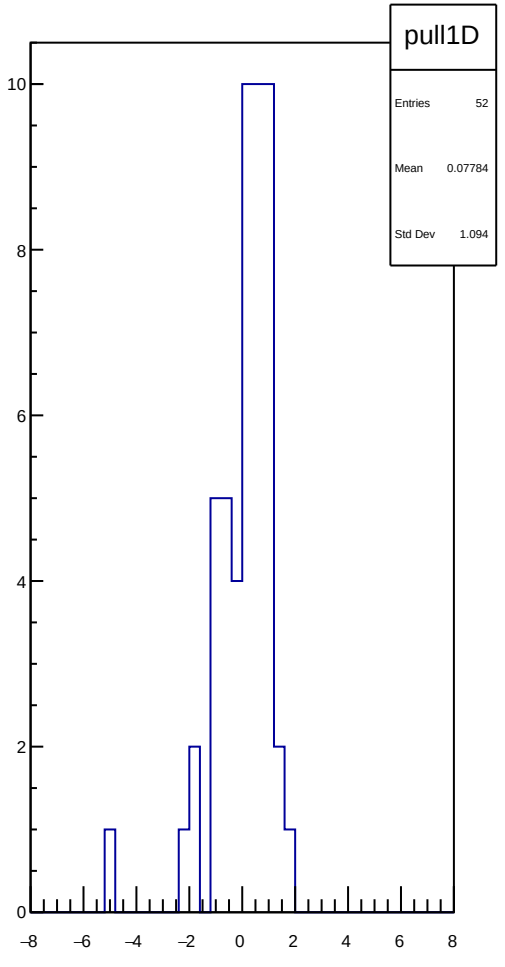

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.14 / 50
p0 −46.5 ± 0.1054
0
−10
−20
−30
−40
−50

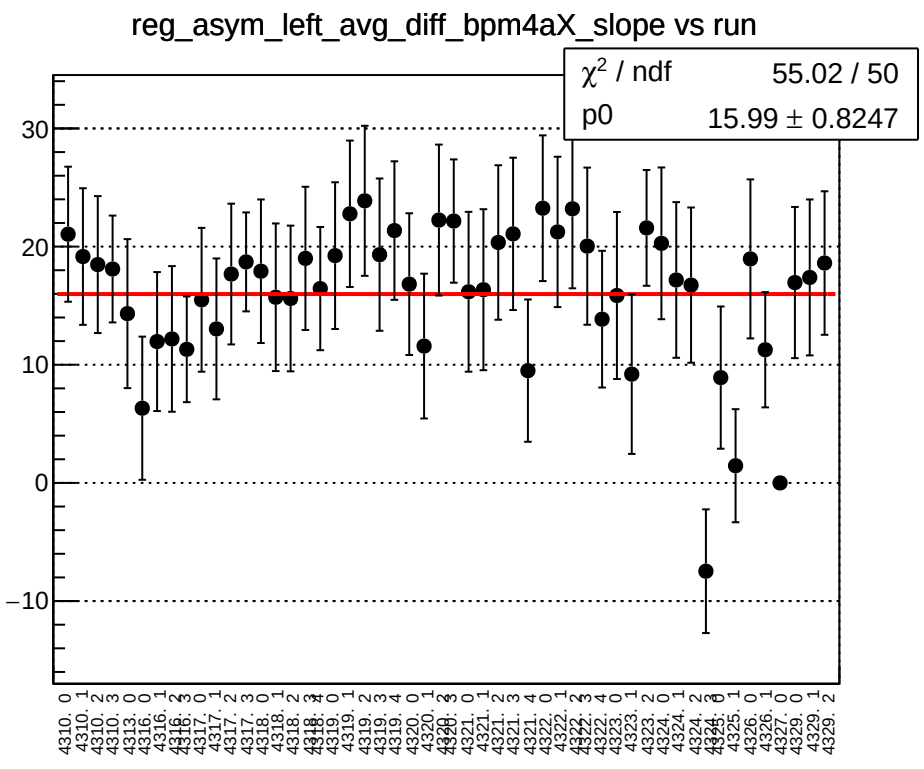

pull1D
Entries 52
Mean 0.01387
Std Dev 0.702
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 361.8 / 50
p0 −5.94 ± 0.6575
10
0
−10
−20
−30
−40
−50


pull1D
Entries 52
Mean 0.6152
Std Dev 1.913
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 61.4 / 50
p0 7.878 ± 0.126


pull1D
Entries 52
Mean 0.07784
Std Dev 1.094


reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.02 / 50
p0 15.99 ± 0.8247
30
20
10
0
−10
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
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4325. 1
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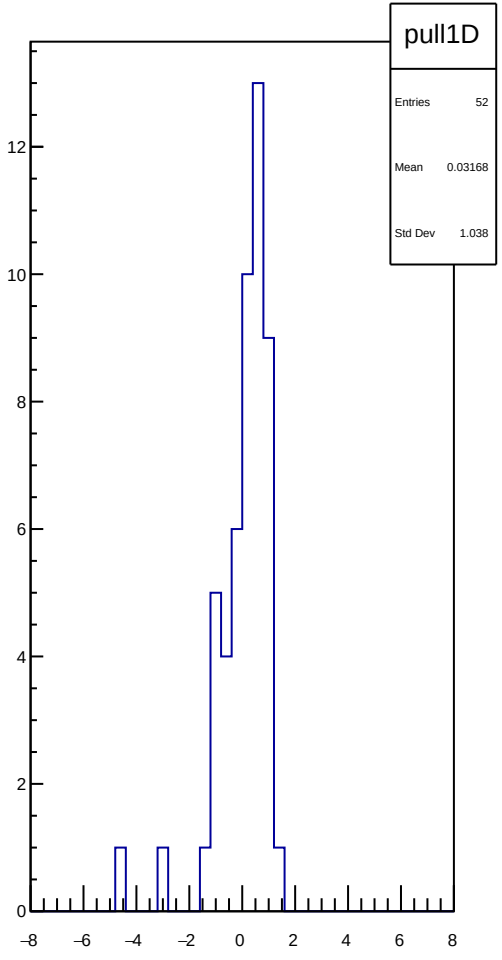
4329. 1
4329. 2


pull1D
Entries 52
Mean 0.03168
Std Dev 1.038
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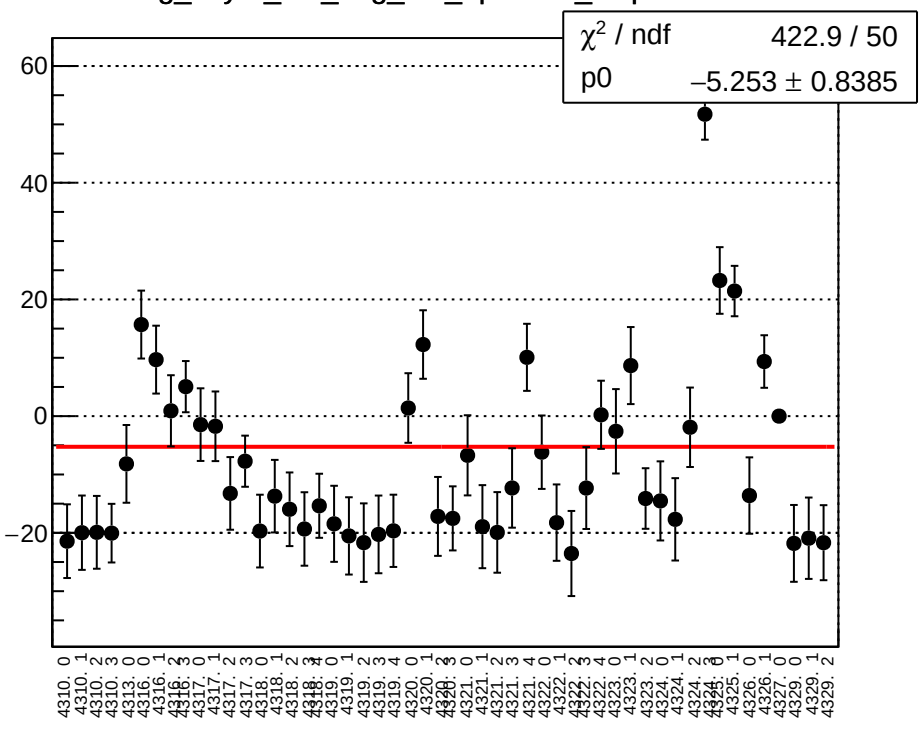
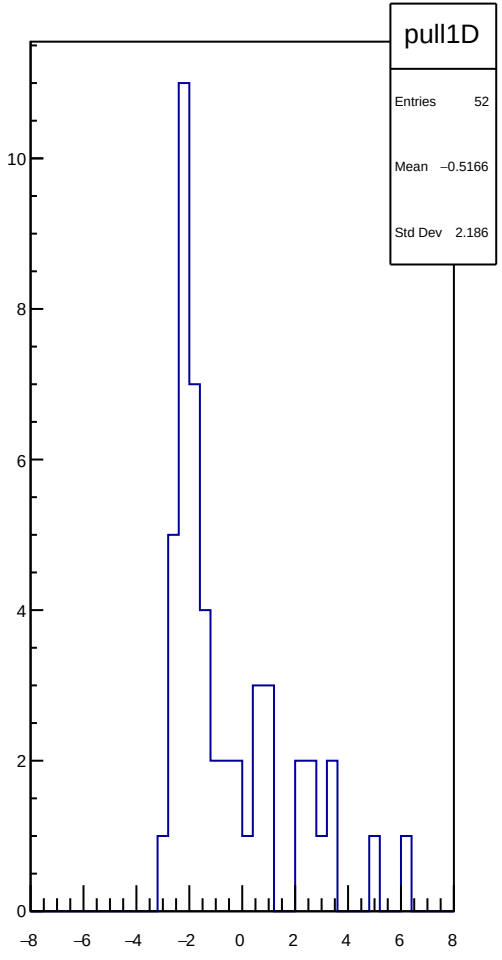
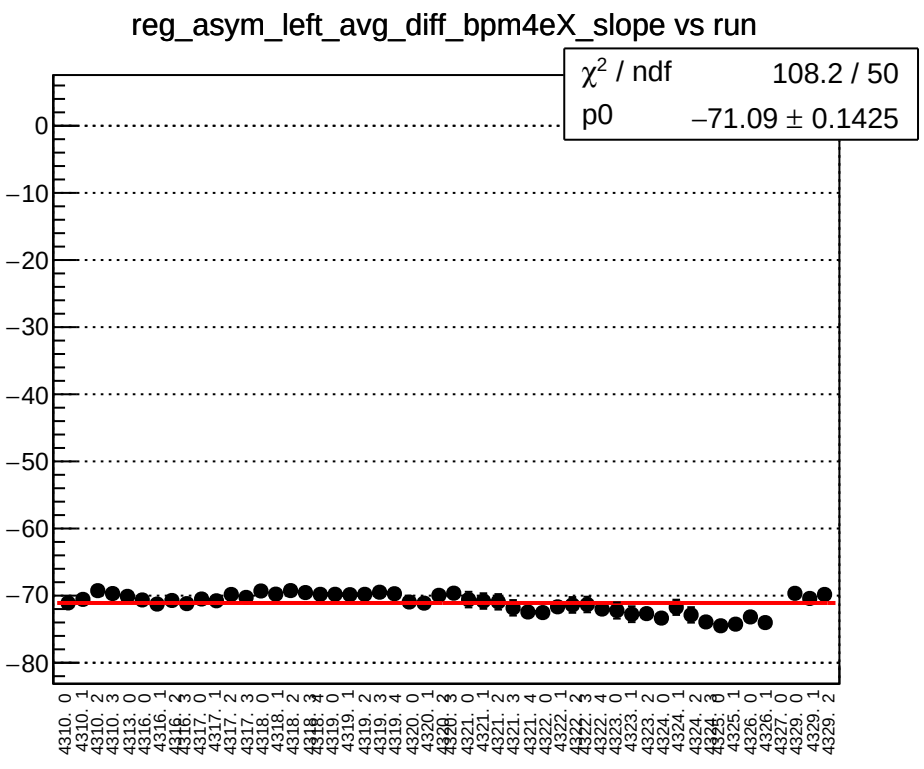
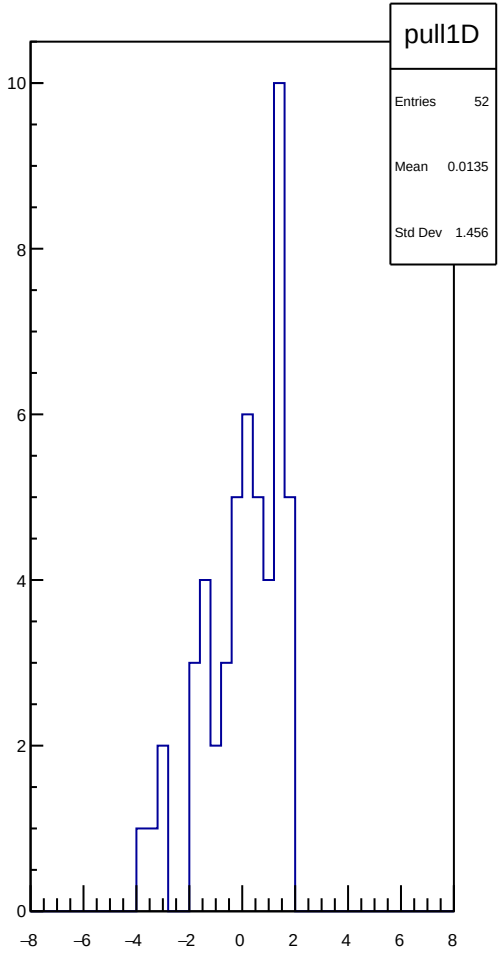
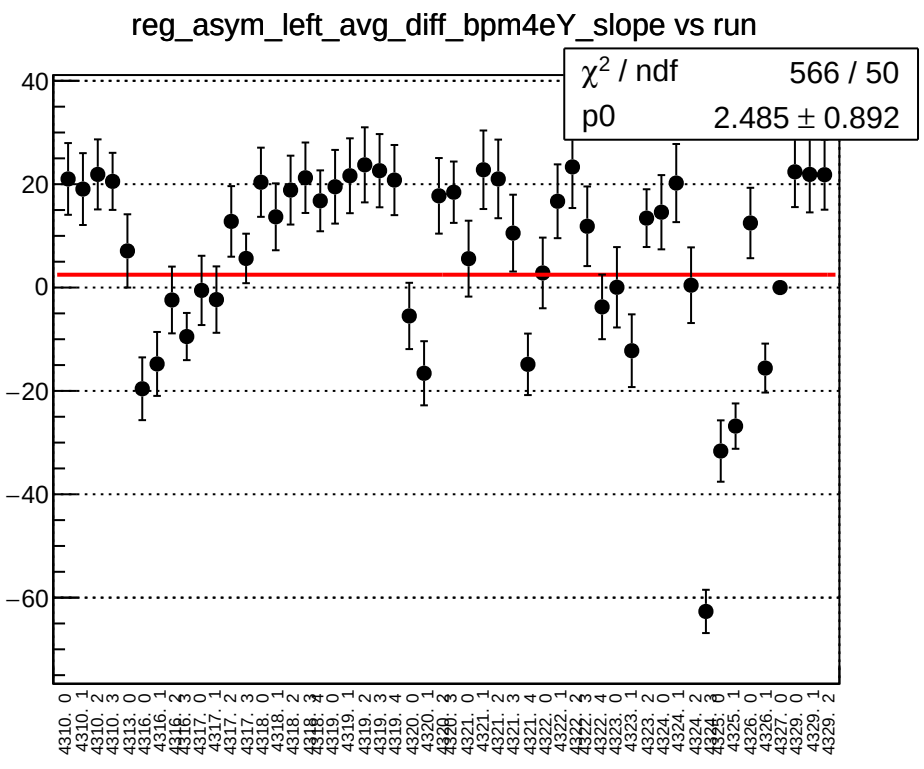
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

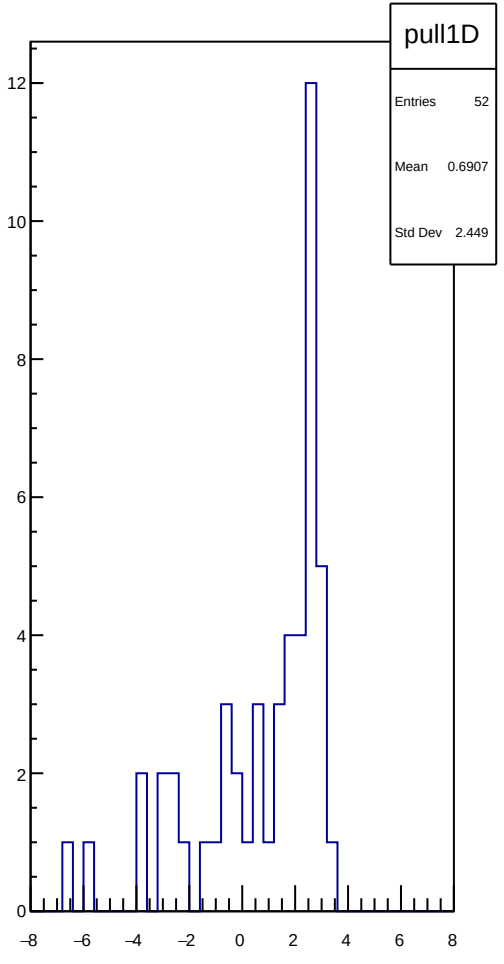

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 422.9 / 50
p0 −5.253 ± 0.8385
60
40
20
0
−20

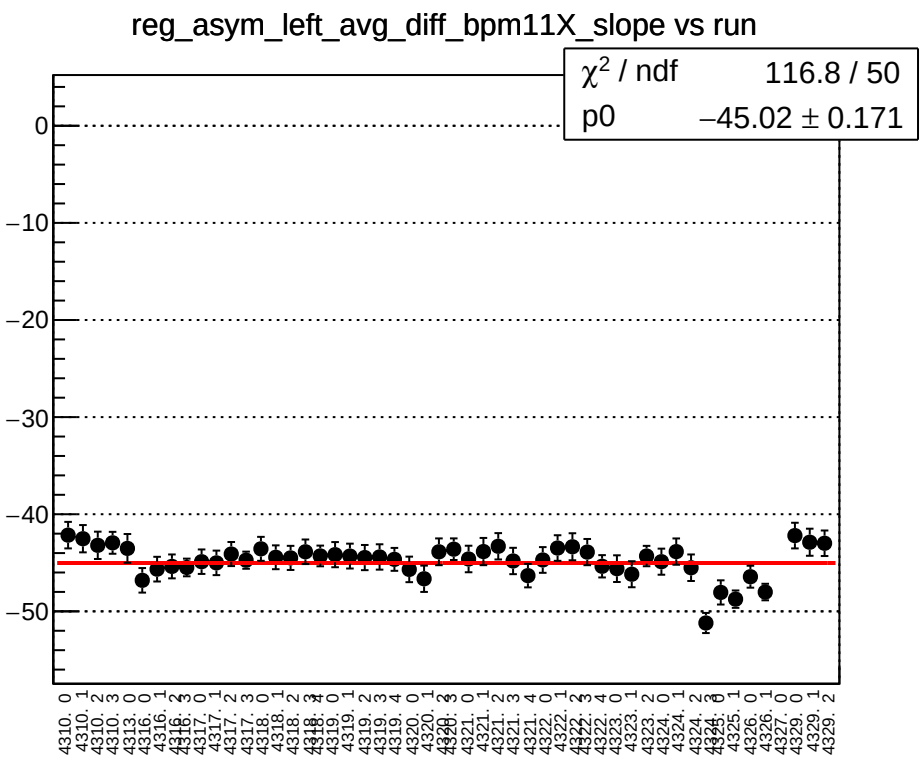

pull1D
Entries 52
Mean −0.5166
Std Dev 2.186
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

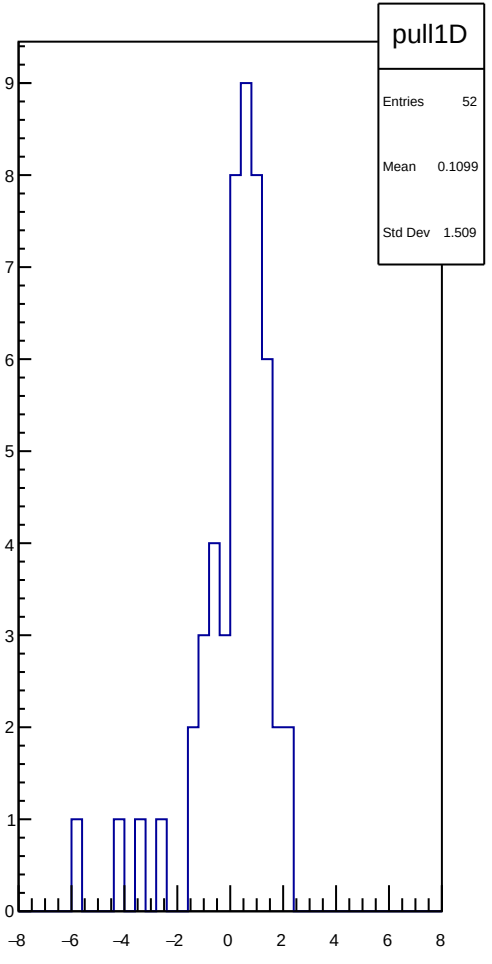

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.2 / 50
p0 −71.09 ± 0.1425
0
−10
−20
−30
−40
−50
−60
−70
−80

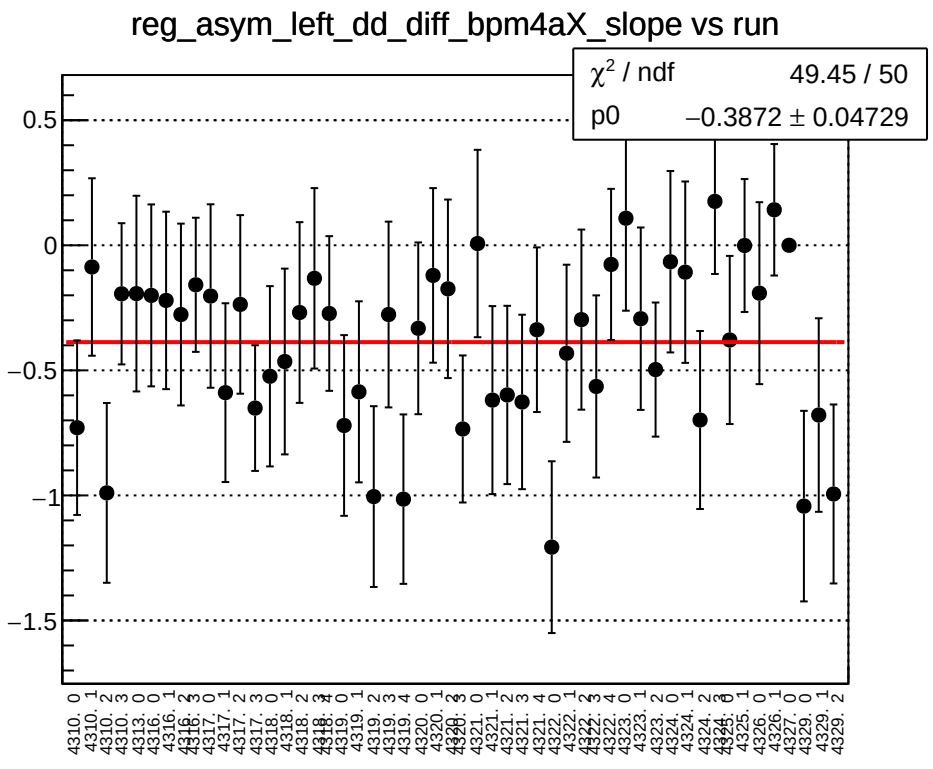

pull1D
Entries 52
Mean 0.0135
Std Dev 1.456
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

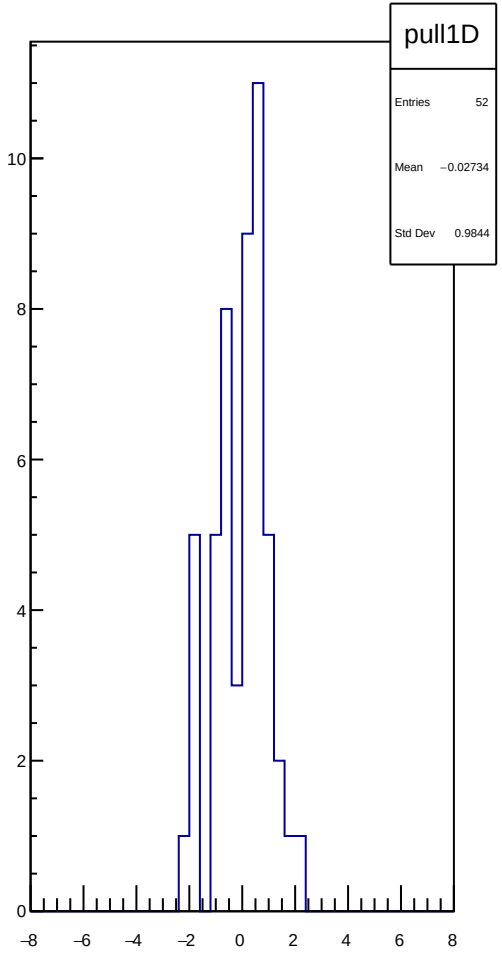

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 566 / 50
p0 2.485 ± 0.892
40
20
0
−20
−40
−60

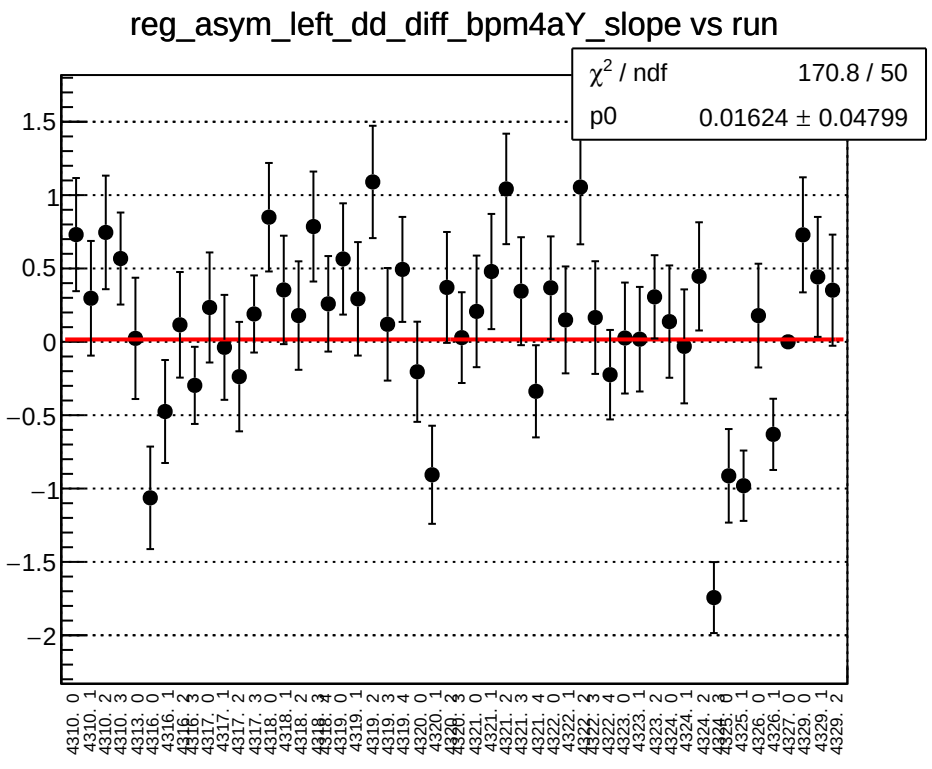

pull1D
Entries 52
Mean 0.6907
Std Dev 2.449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

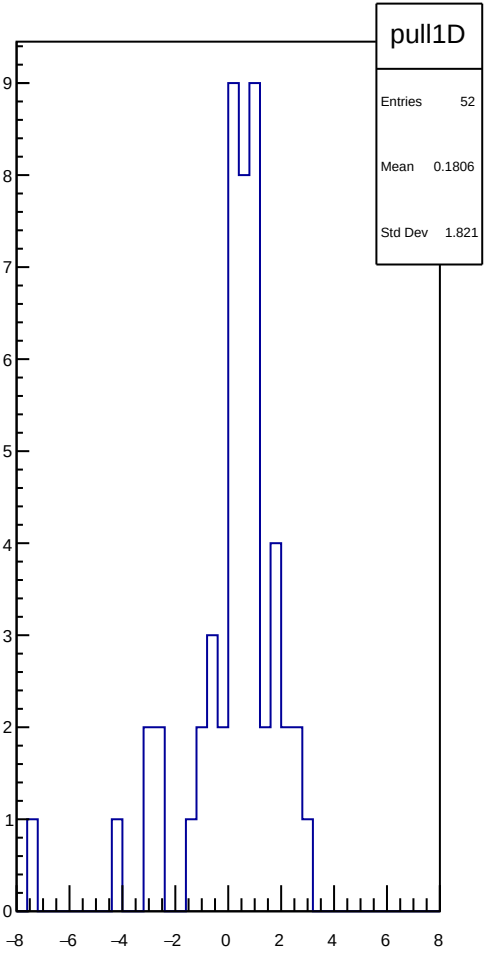

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 116.8 / 50
p0 −45.02 ± 0.171
0
−10
−20
−30
−40
−50

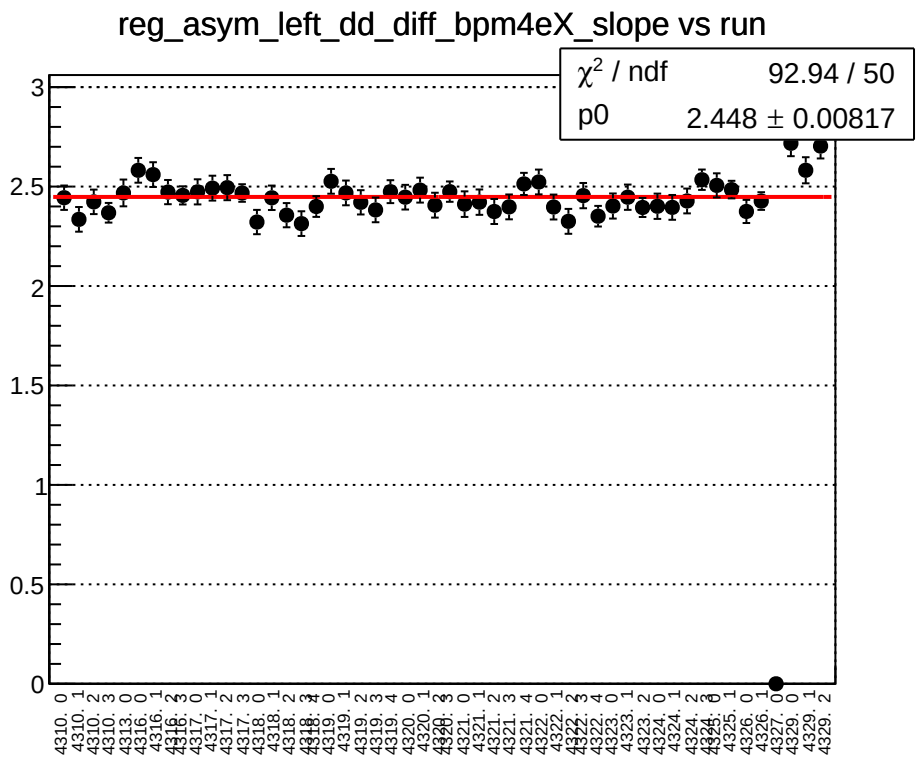

pull1D
Entries 52
Mean 0.1099
Std Dev 1.509
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

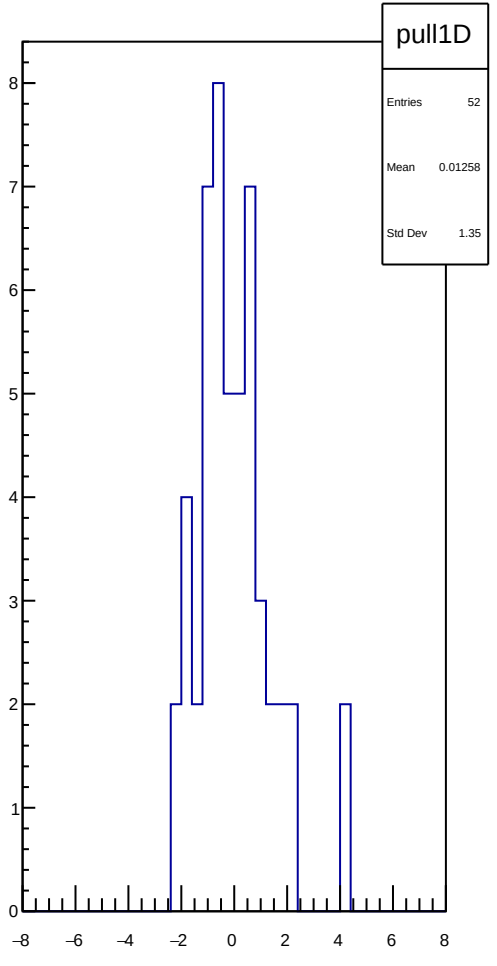

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.45 / 50
p0 −0.3872 ± 0.04729
0.5
0
−0.5
−1
−1.5
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

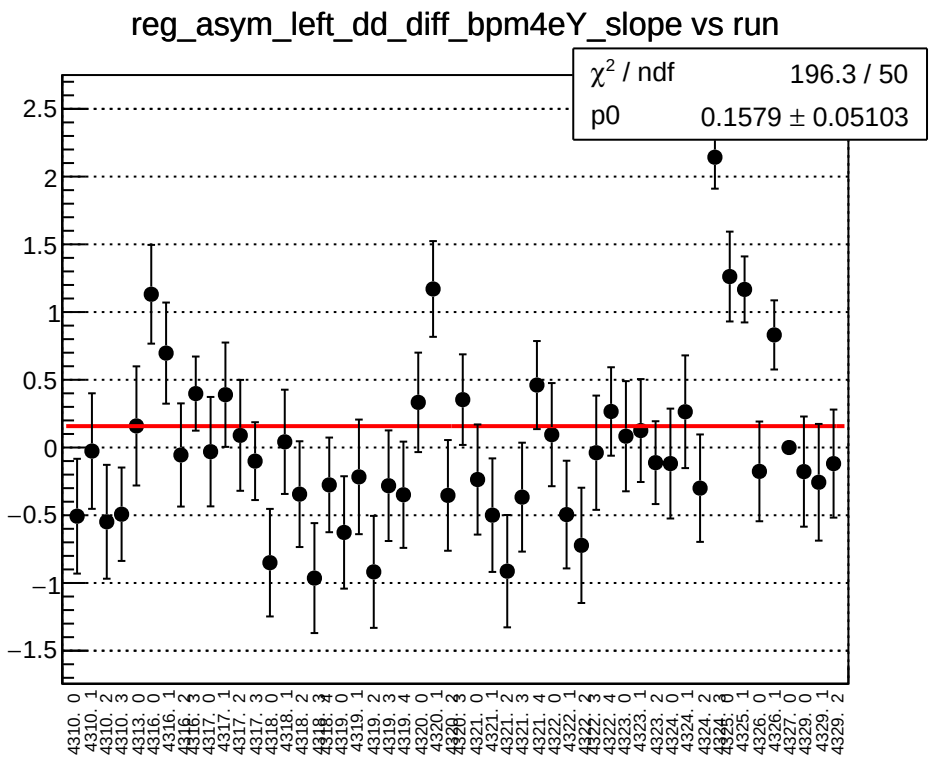

pull1D
Entries 52
Mean −0.02734
Std Dev 0.9844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

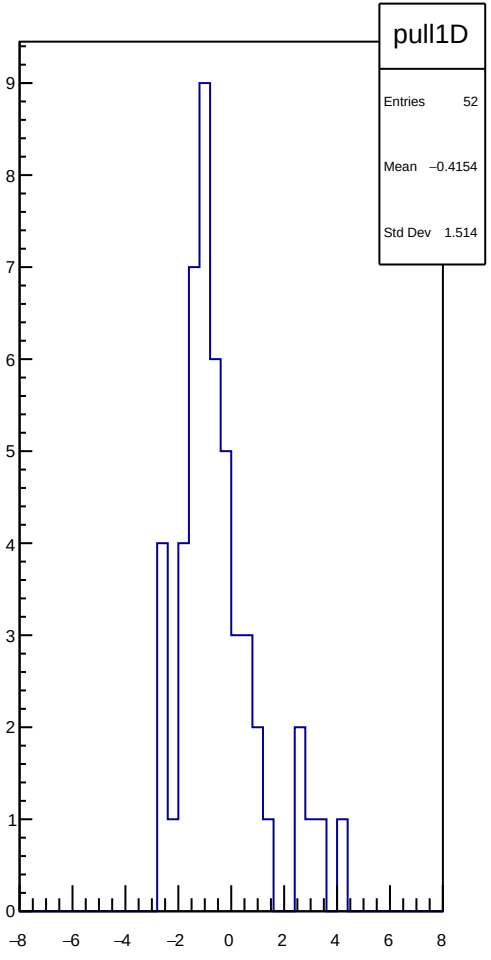

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 170.8 / 50
p0 0.01624 ± 0.04799
1.5
1
0.5
0
−0.5
−1
−1.5
−2
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 1
4327. 0
4329. 1
4329. 2

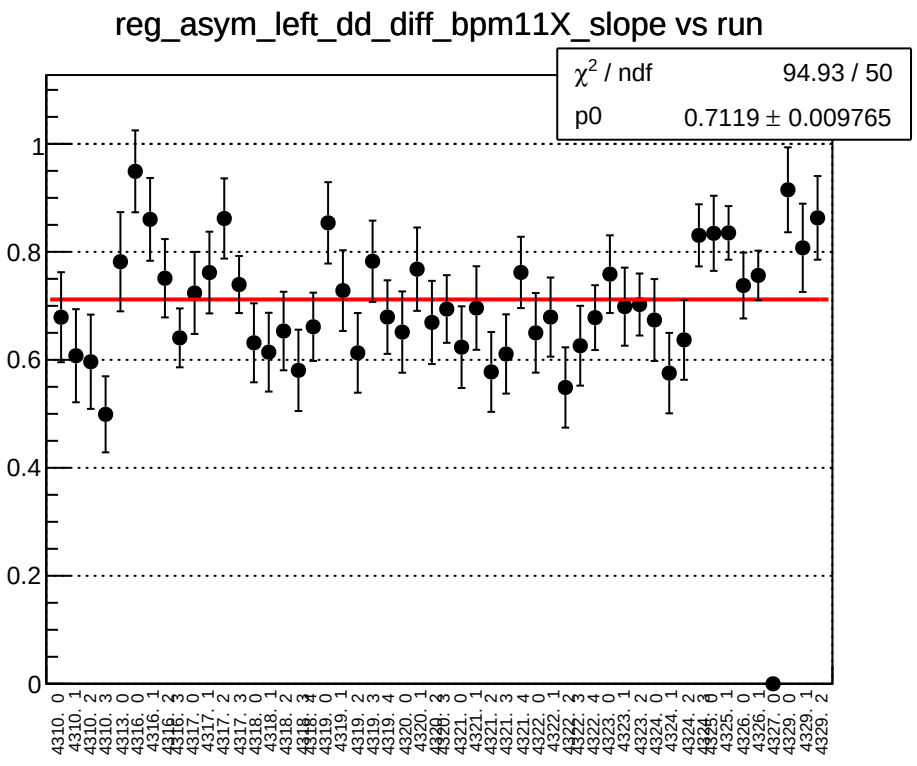

pull1D
Entries 52
Mean 0.1806
Std Dev 1.821
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

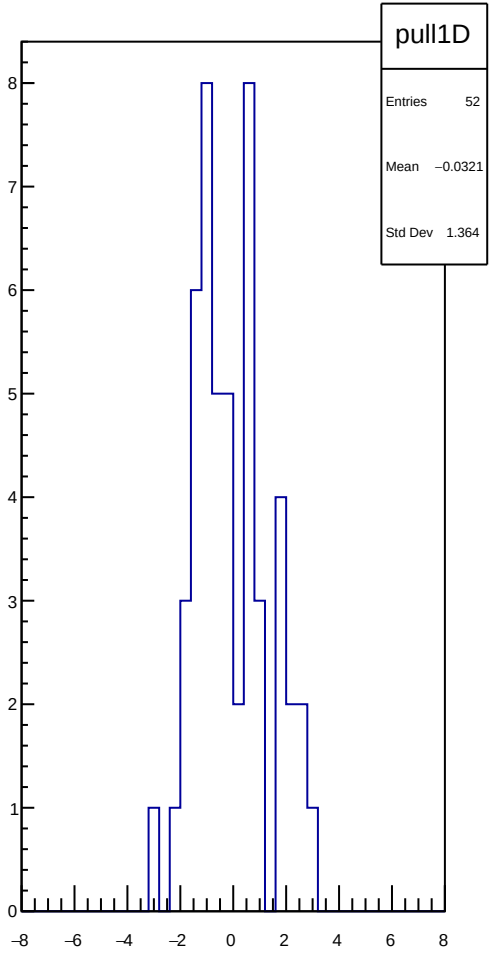

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.94 / 50
p0 2.448 ± 0.00817
3
2.5
2
1.5
1
0.5
0

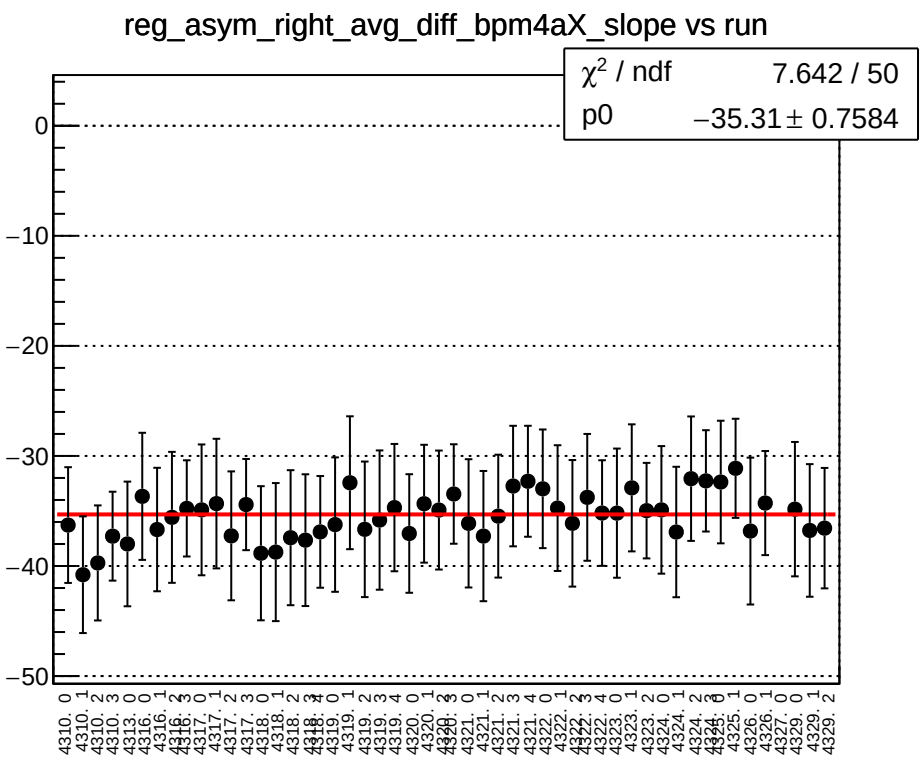

pull1D
Entries 52
Mean 0.01258
Std Dev 1.35
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

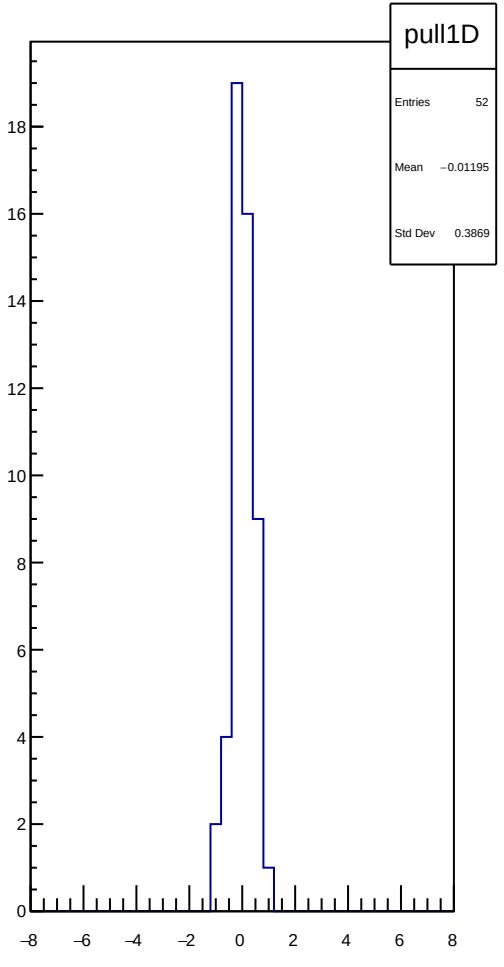

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 196.3 / 50
p0 0.1579 ± 0.05103
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

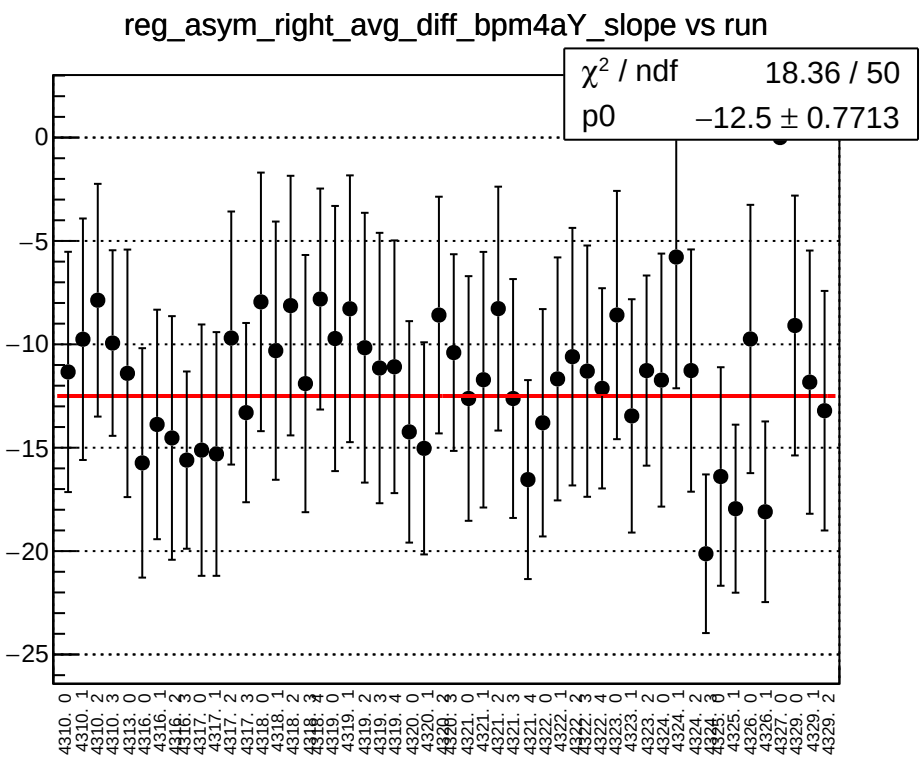

pull1D
Entries 52
Mean −0.4154
Std Dev 1.514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

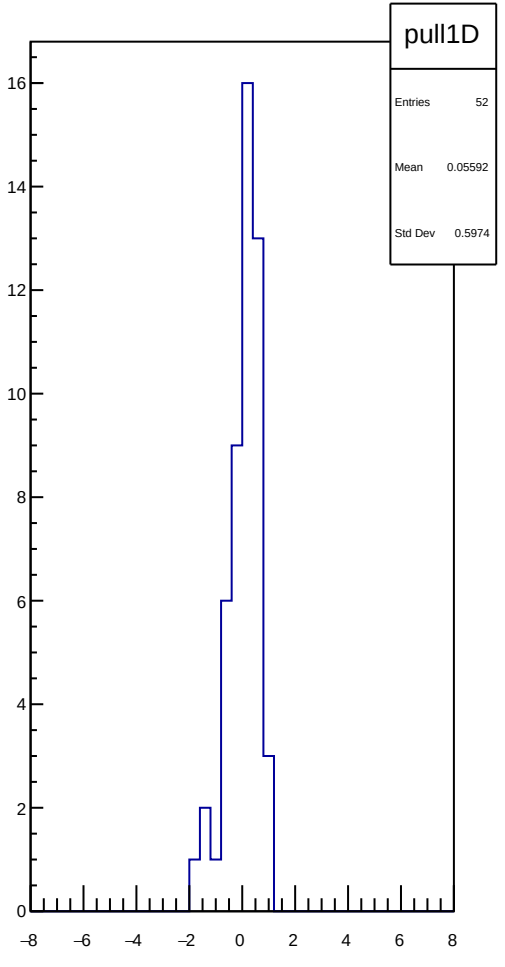

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 94.93 / 50
p0 0.7119 ± 0.009765
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

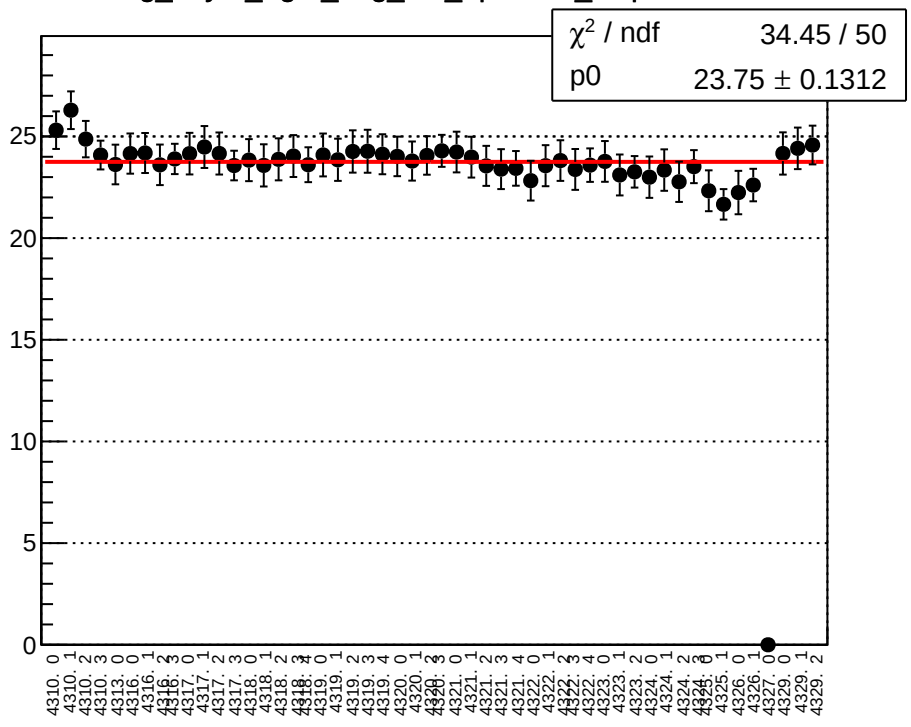

pull1D
Entries 52
Mean −0.0321
Std Dev 1.364
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

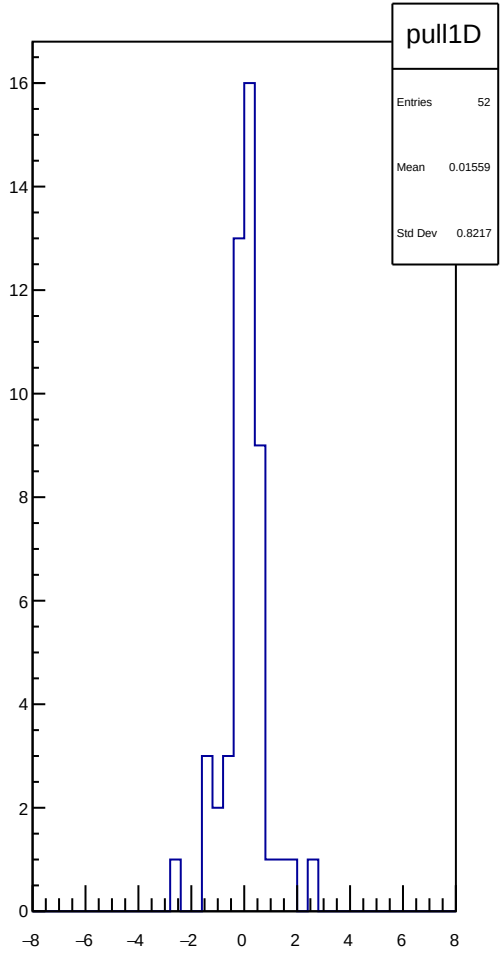

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.642 / 50
p0 −35.31 ± 0.7584
0
−10
−20
−30
−40
−50

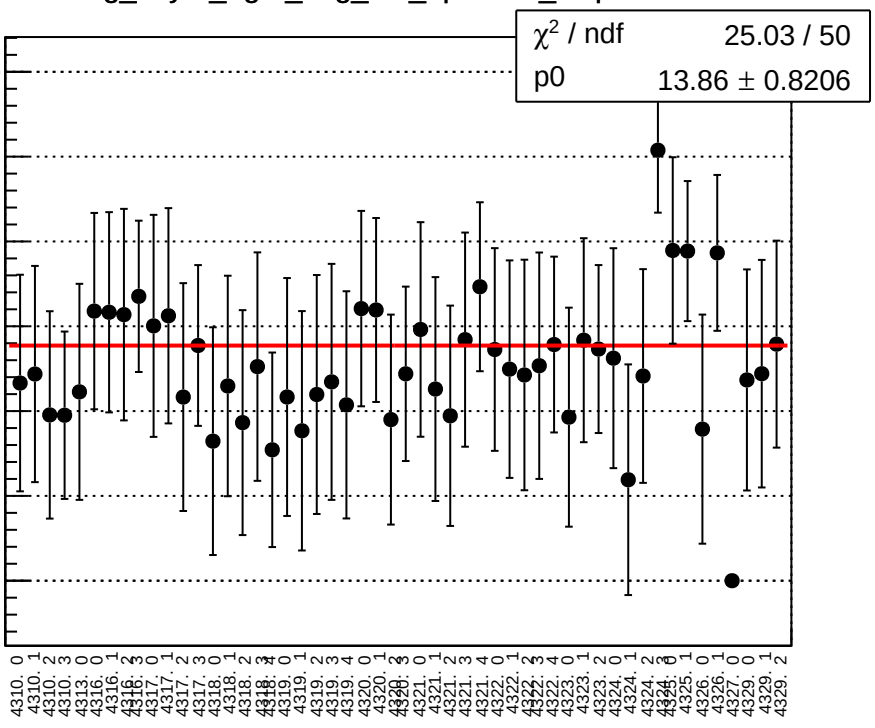

pull1D
Entries 52
Mean −0.01195
Std Dev 0.3869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

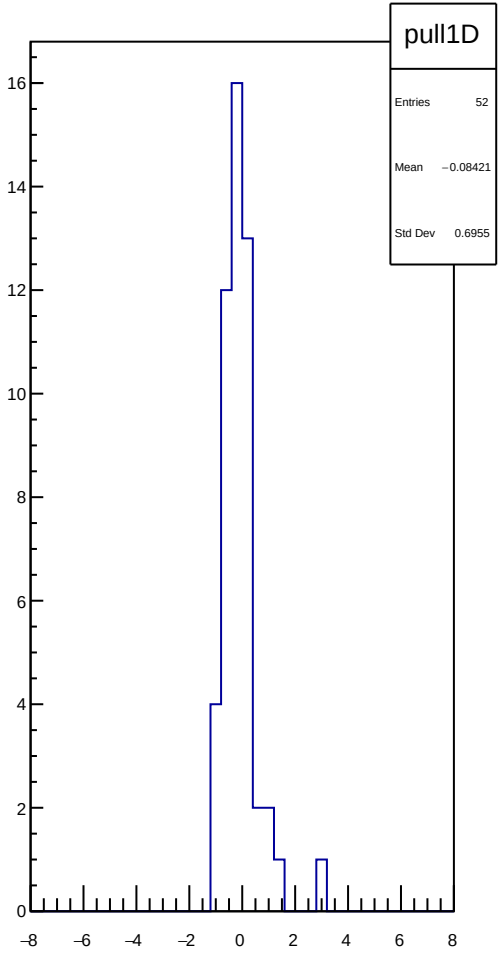

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.36 / 50
p0 −12.5 ± 0.7713
0
−5
−10
−15
−20
−25

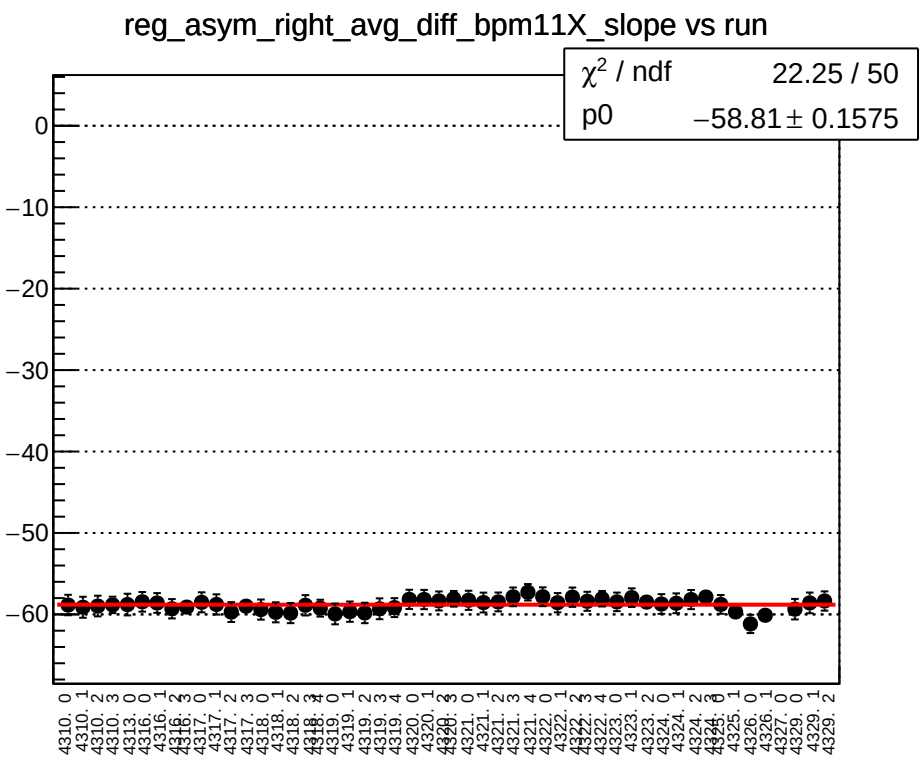

pull1D
Entries 52
Mean 0.05592
Std Dev 0.5974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

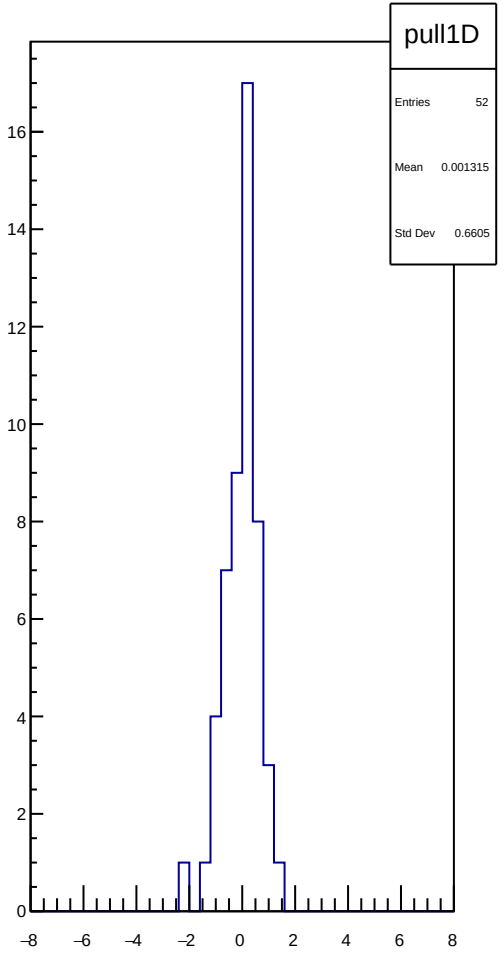

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.45 / 50
p0 23.75 ± 0.1312
25
20
15
10
5
0

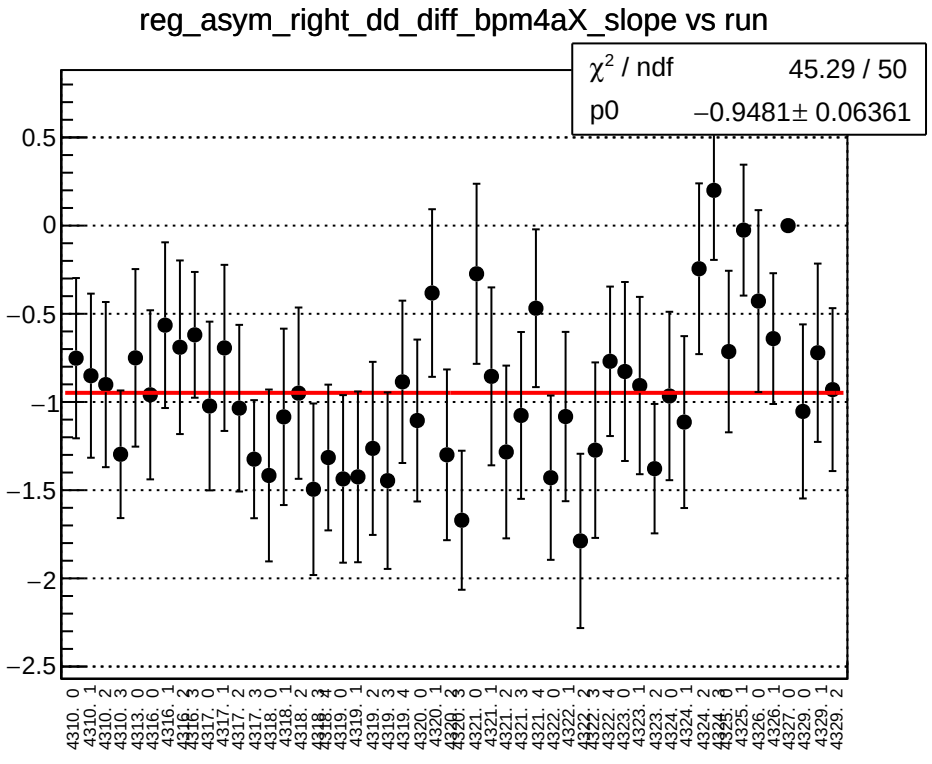

pull1D
Entries 52
Mean 0.01559
Std Dev 0.8217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

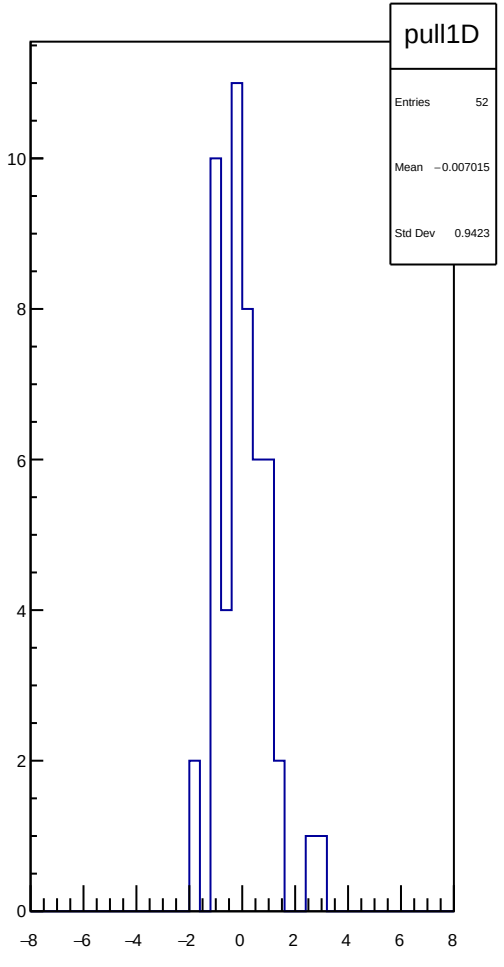

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.03 / 50
p0 13.86 ± 0.8206
30
25
20
15
10
5
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

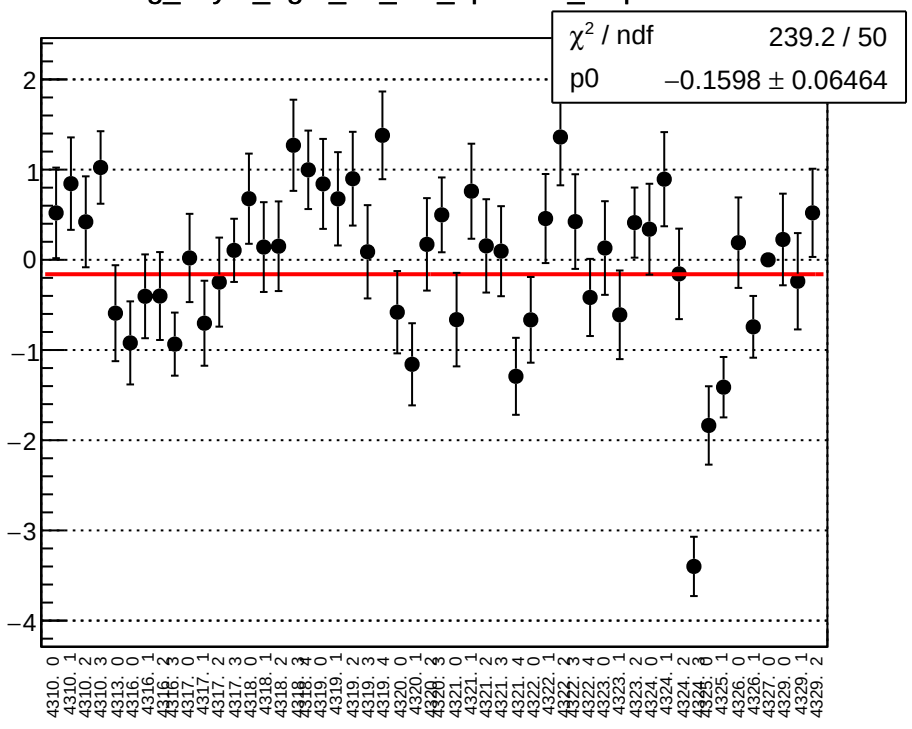

pull1D
Entries 52
Mean −0.08421
Std Dev 0.6955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

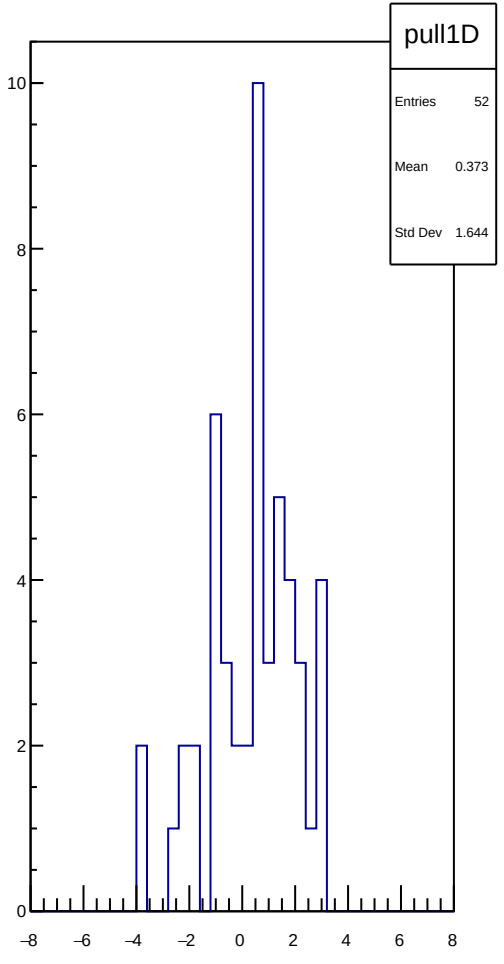

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 22.25 / 50
p0 −58.81 ± 0.1575
0
−10
−20
−30
−40
−50
−60

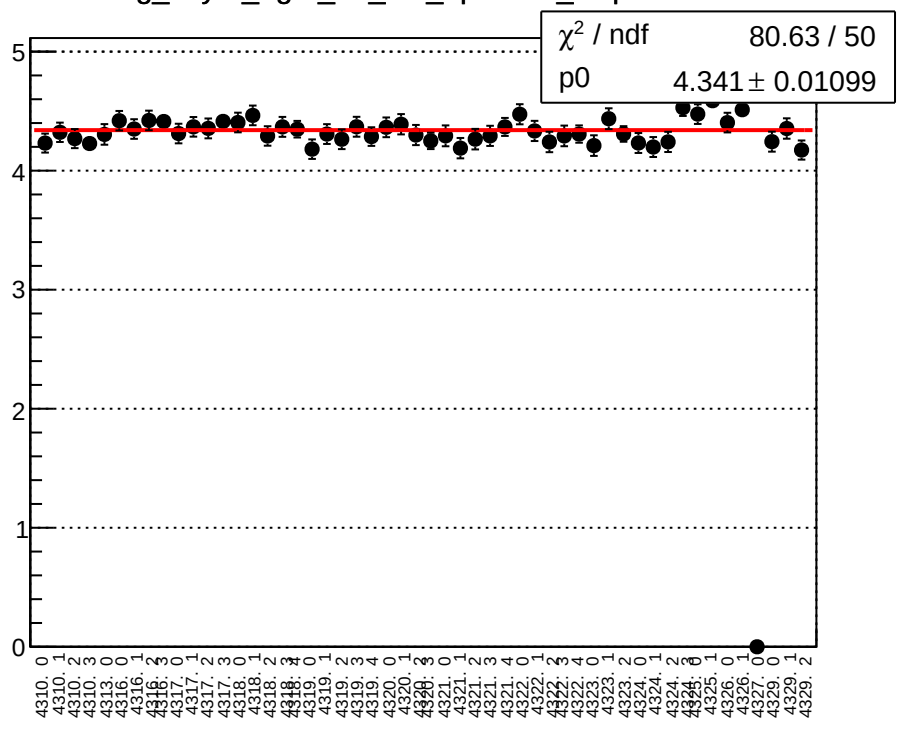

pull1D
Entries 52
Mean 0.001315
Std Dev 0.6605
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

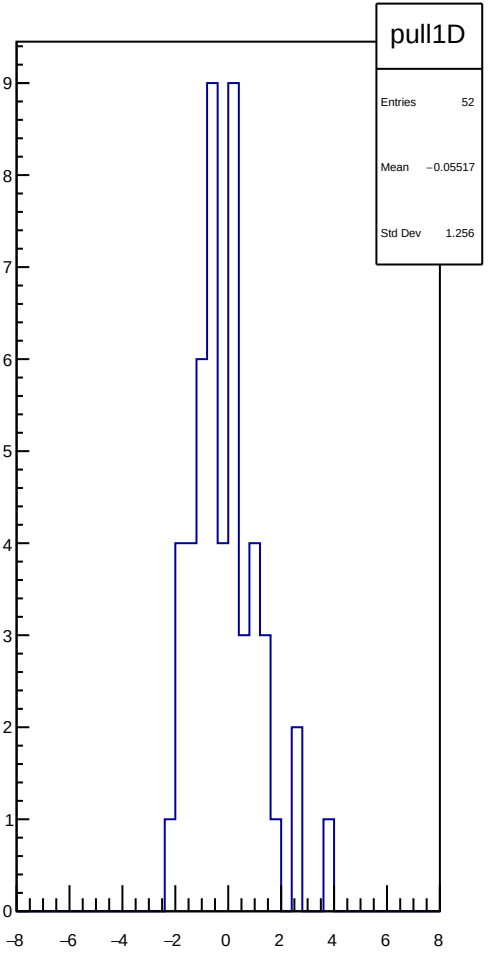

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.29 / 50
p0 −0.9481± 0.06361
0.5
0
−0.5
−1
−1.5
−2
−2.5

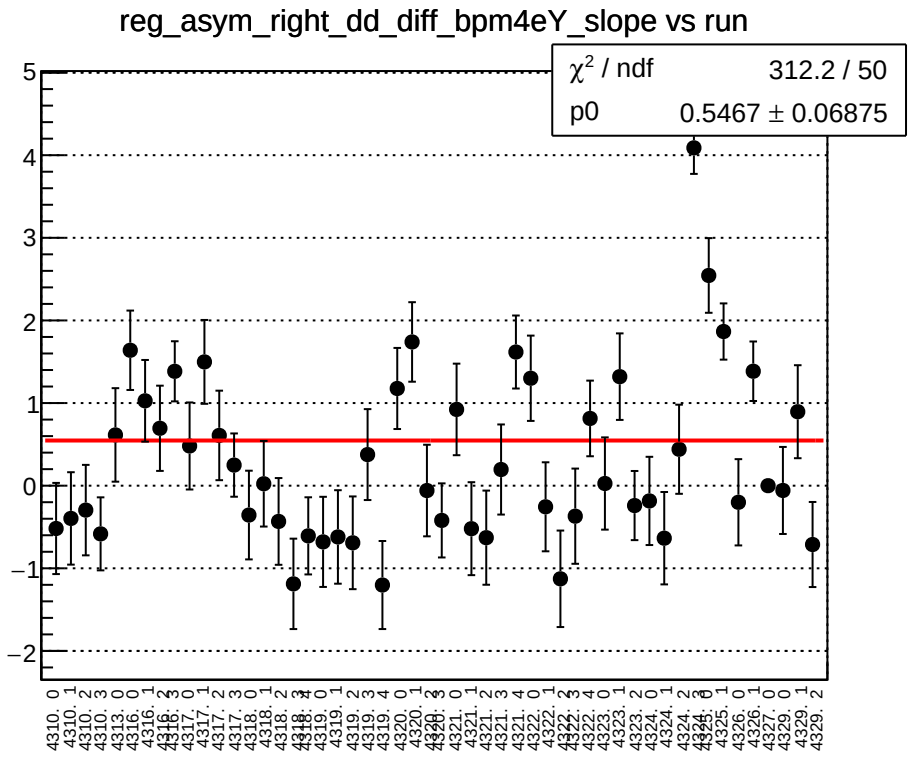

pull1D
Entries 52
Mean −0.007015
Std Dev 0.9423
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

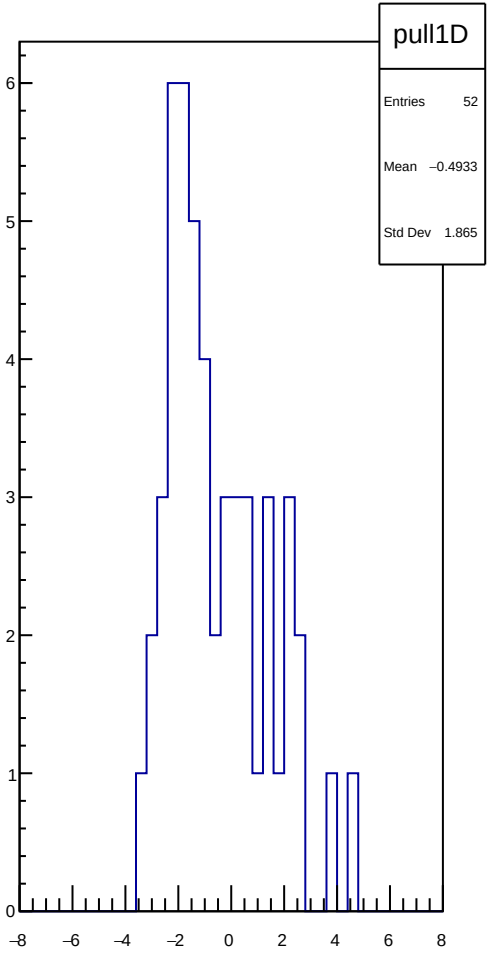

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 239.2 / 50
p0 −0.1598 ± 0.06464

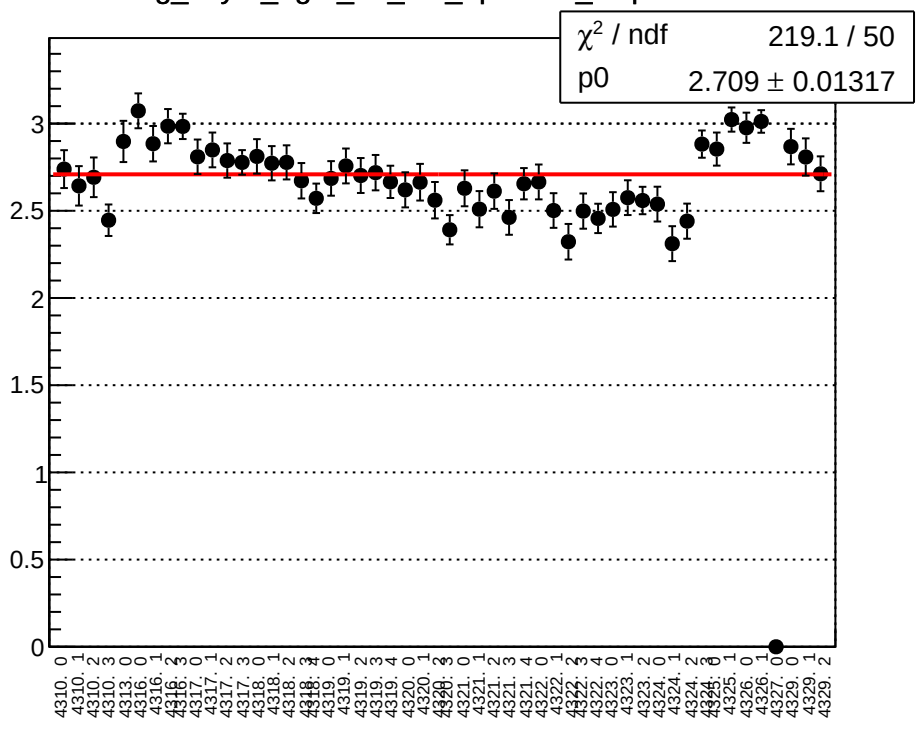

pull1D
Entries 52
Mean 0.373
Std Dev 1.644

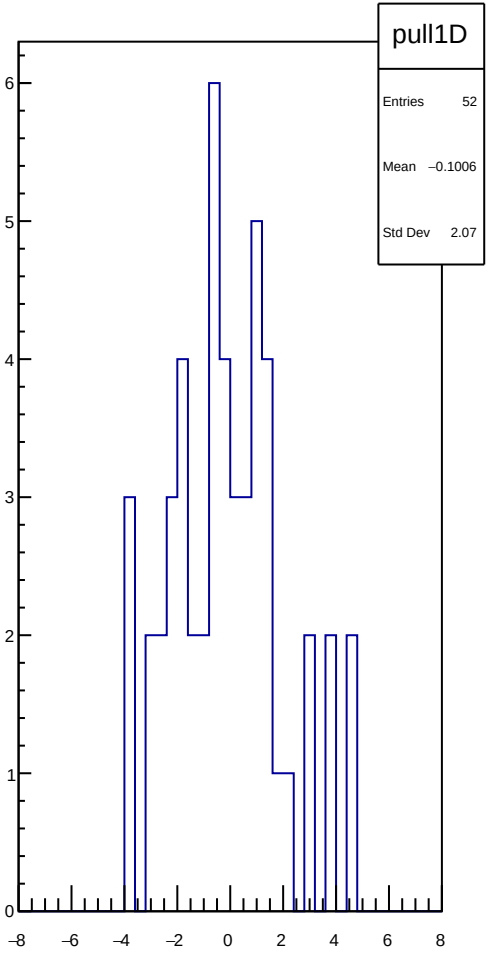

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.63 / 50
p0 4.341 ± 0.01099

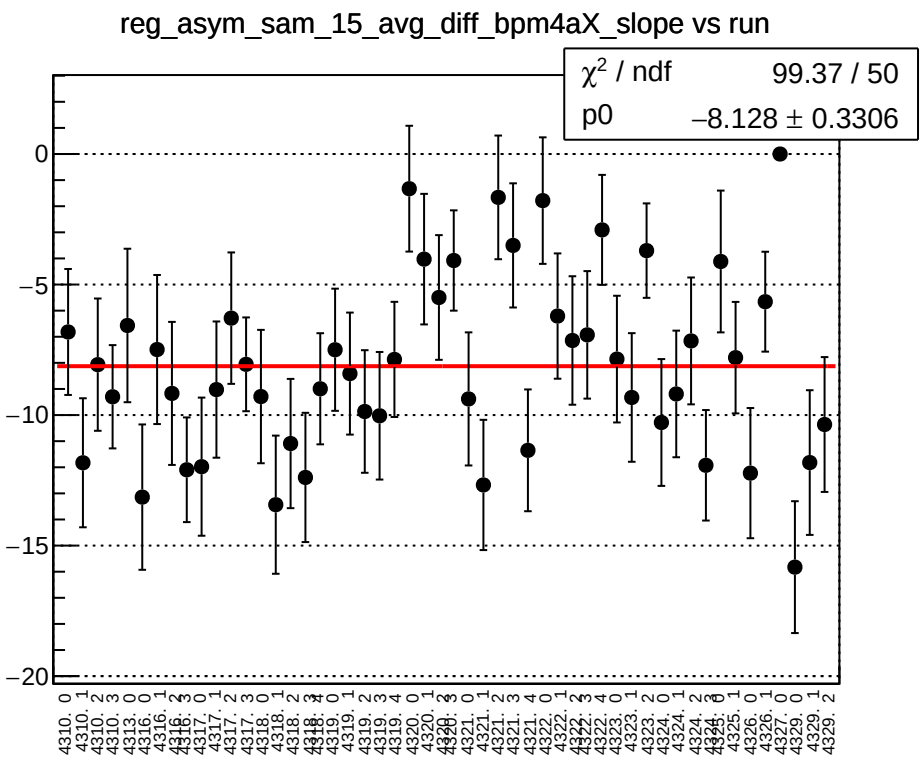

pull1D
Entries 52
Mean −0.05517
Std Dev 1.256

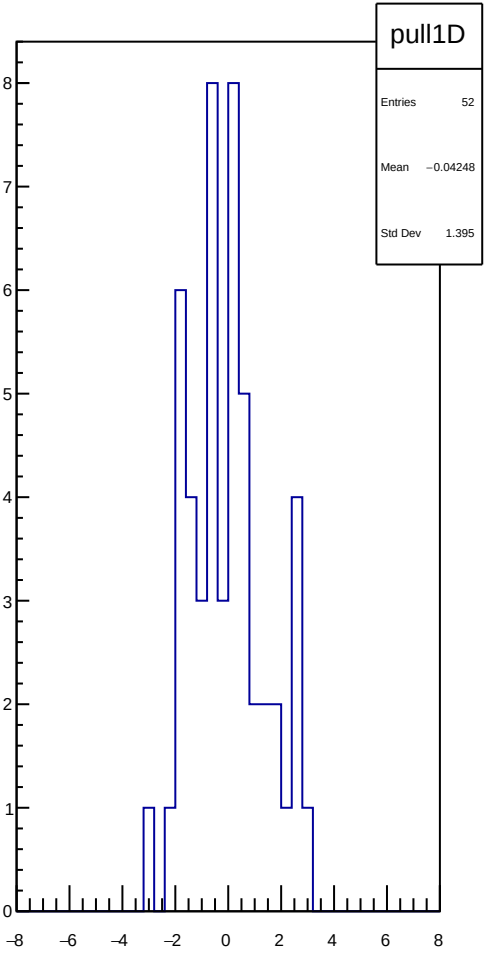

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 312.2 / 50
p0 0.5467 ± 0.06875

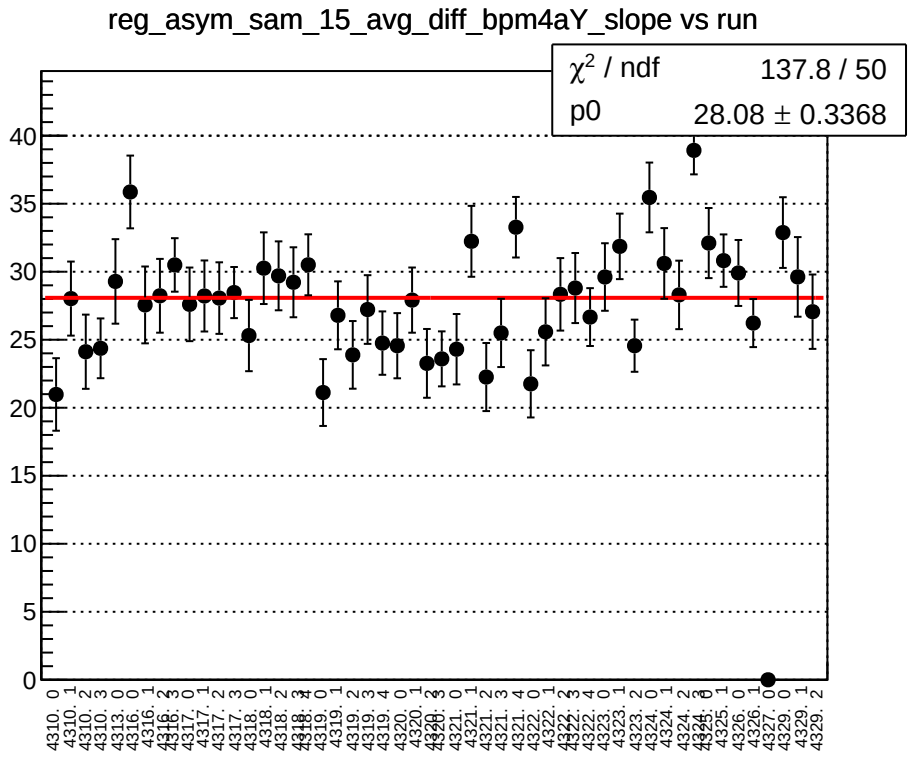

pull1D
Entries 52
Mean −0.4933
Std Dev 1.865

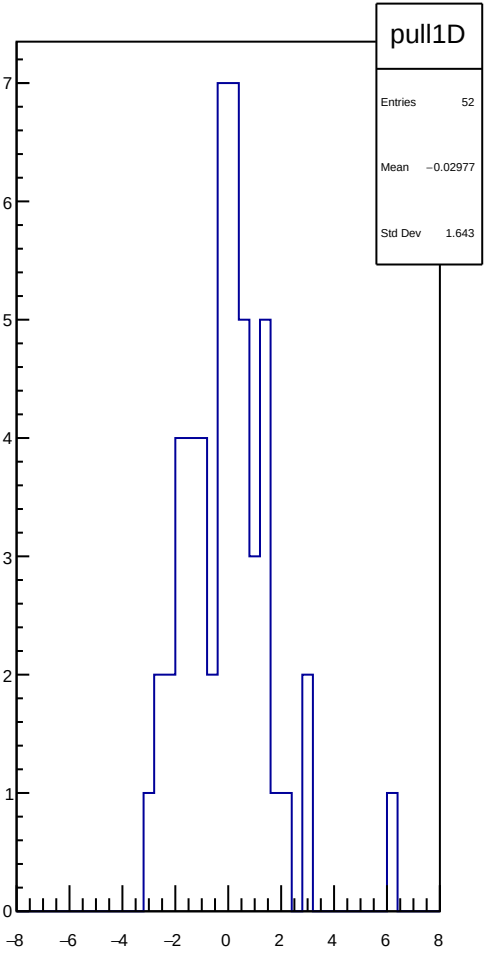

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 219.1 / 50
p0 2.709 ± 0.01317
3
2.5
2
1.5
1
0.5
0

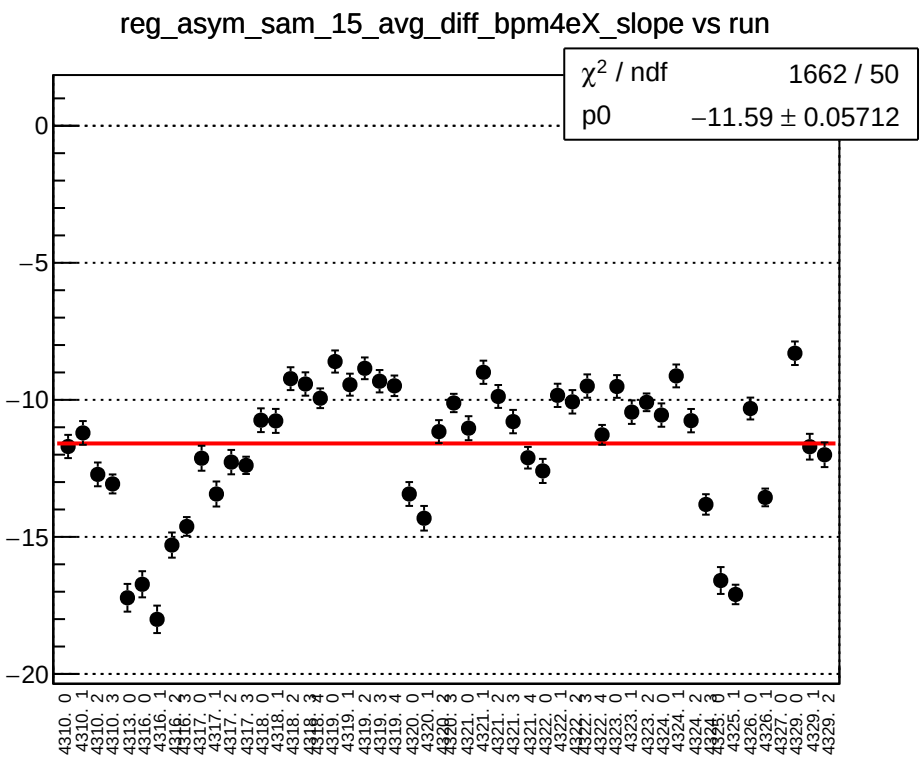

pull1D
Entries 52
Mean −0.1006
Std Dev 2.07
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

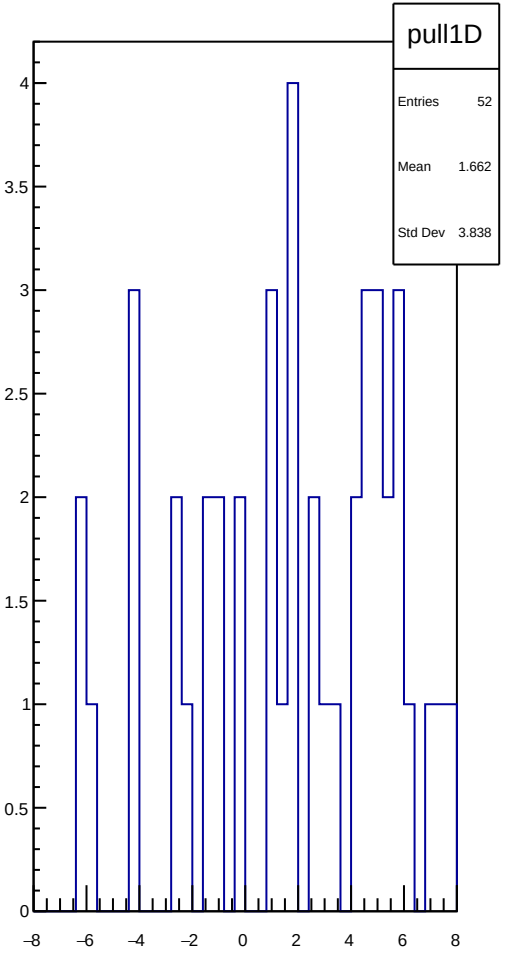

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 99.37 / 50
p0 −8.128 ± 0.3306
0
−5
−10
−15
−20

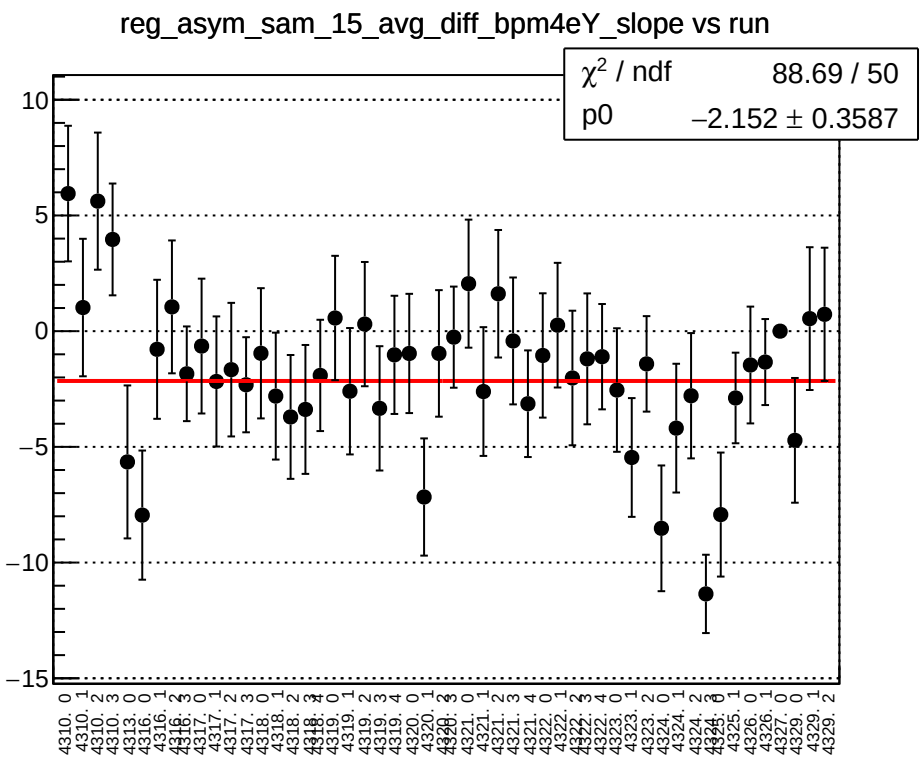

pull1D
Entries 52
Mean −0.04248
Std Dev 1.395
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

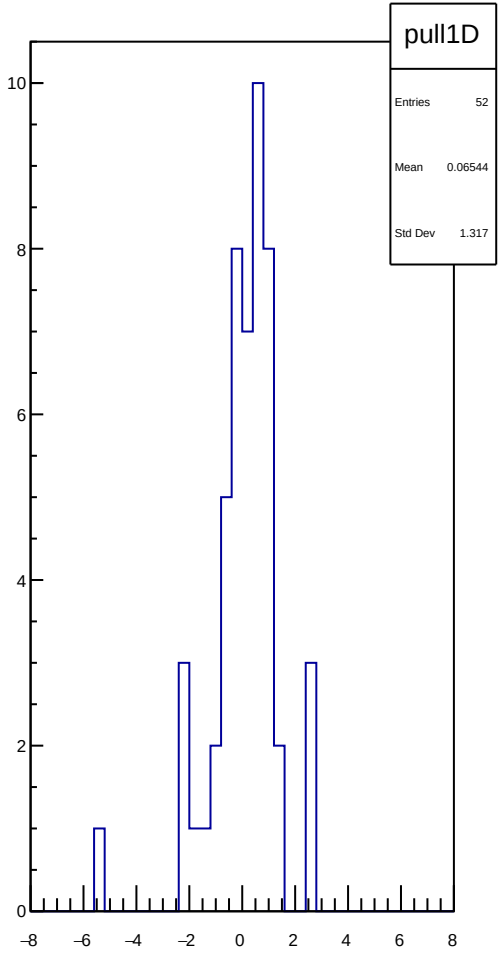

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 137.8 / 50
p0 28.08 ± 0.3368

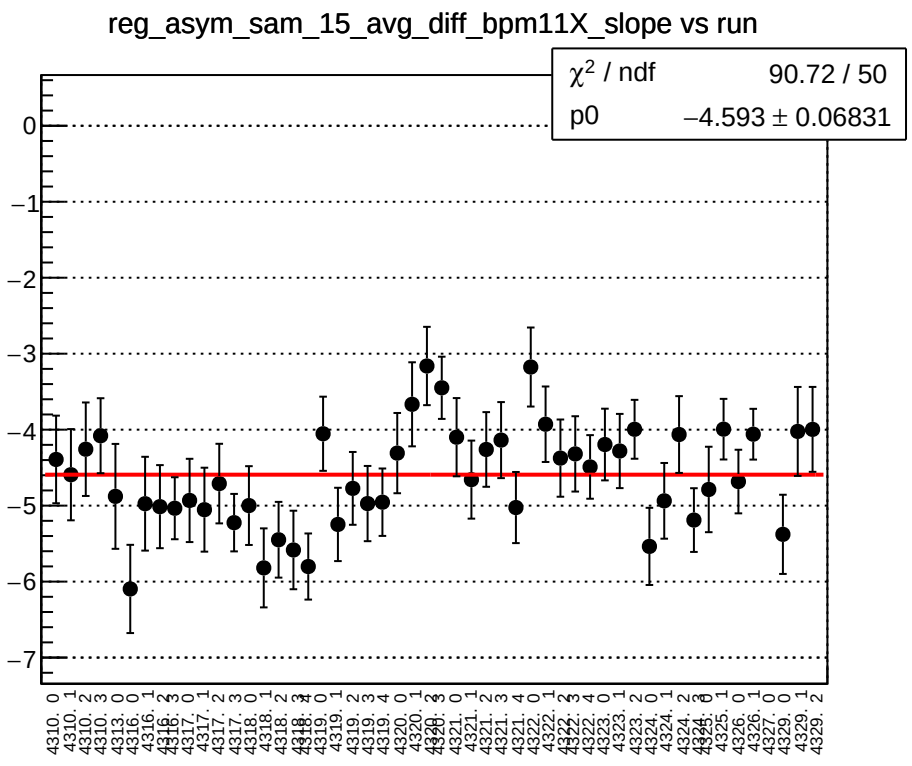

pull1D
Entries 52
Mean −0.02977
Std Dev 1.643

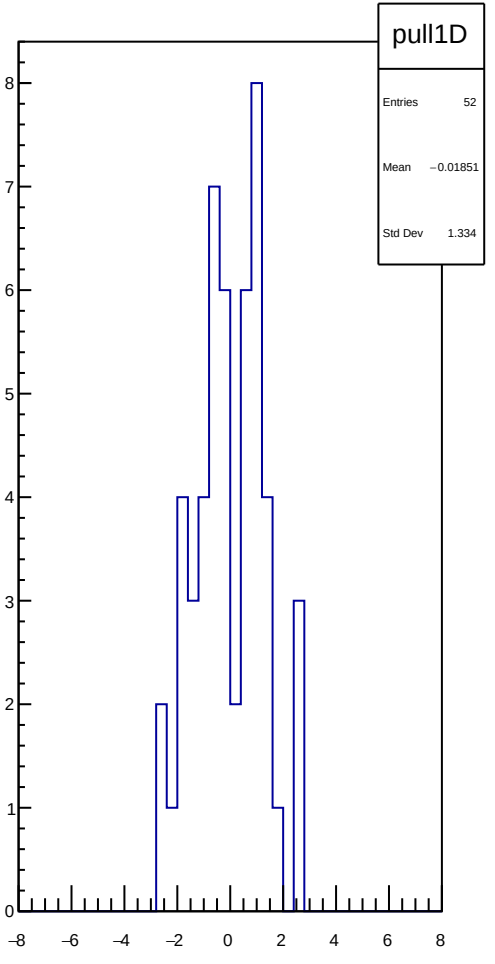

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1662 / 50
p0 −11.59 ± 0.05712
0
−5
−10
−15
−20

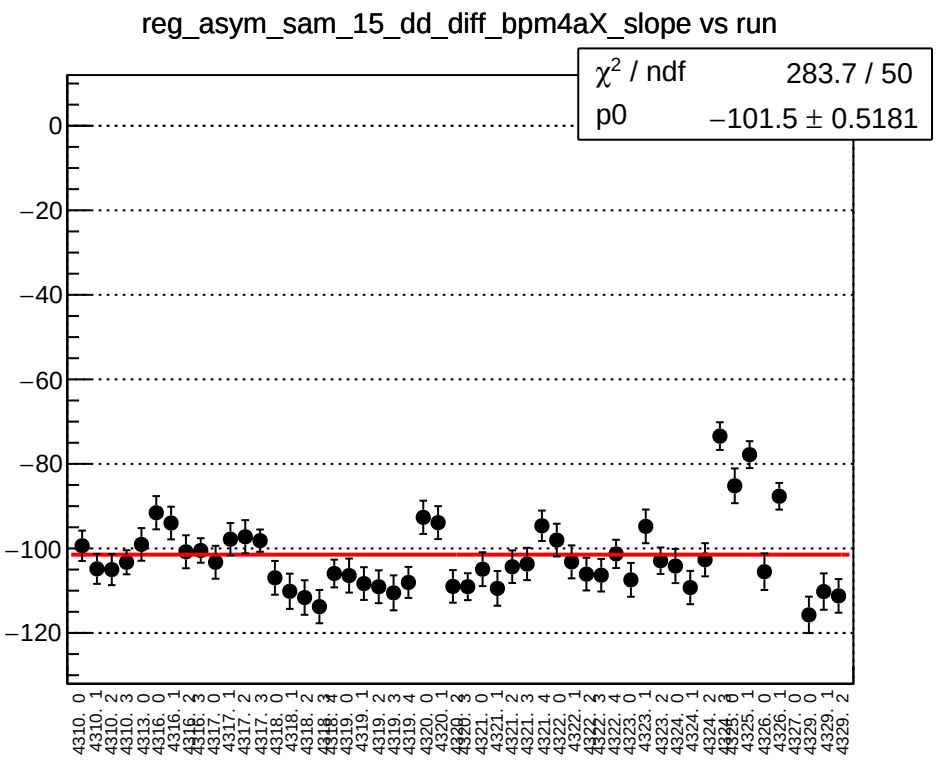

pull1D
Entries 52
Mean 1.662
Std Dev 3.838
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

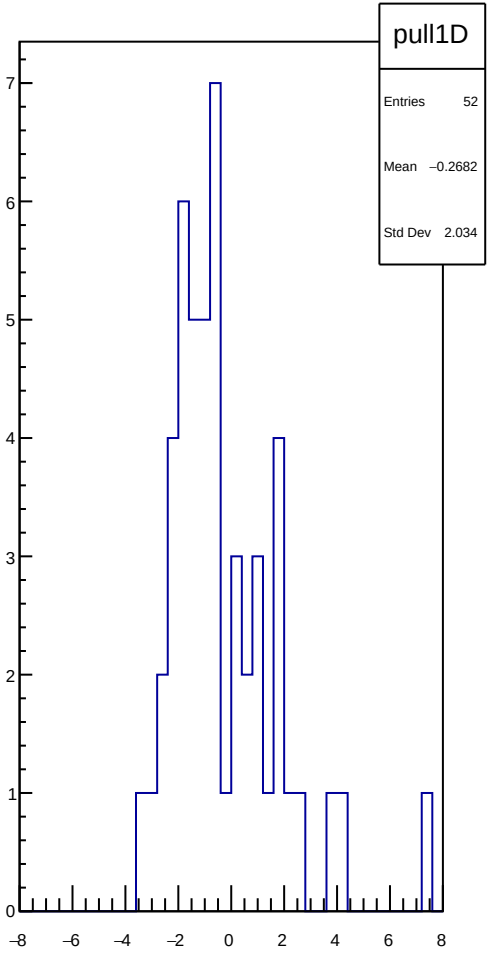

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.69 / 50
p0 −2.152 ± 0.3587
10
5
0
−5
−10
−15

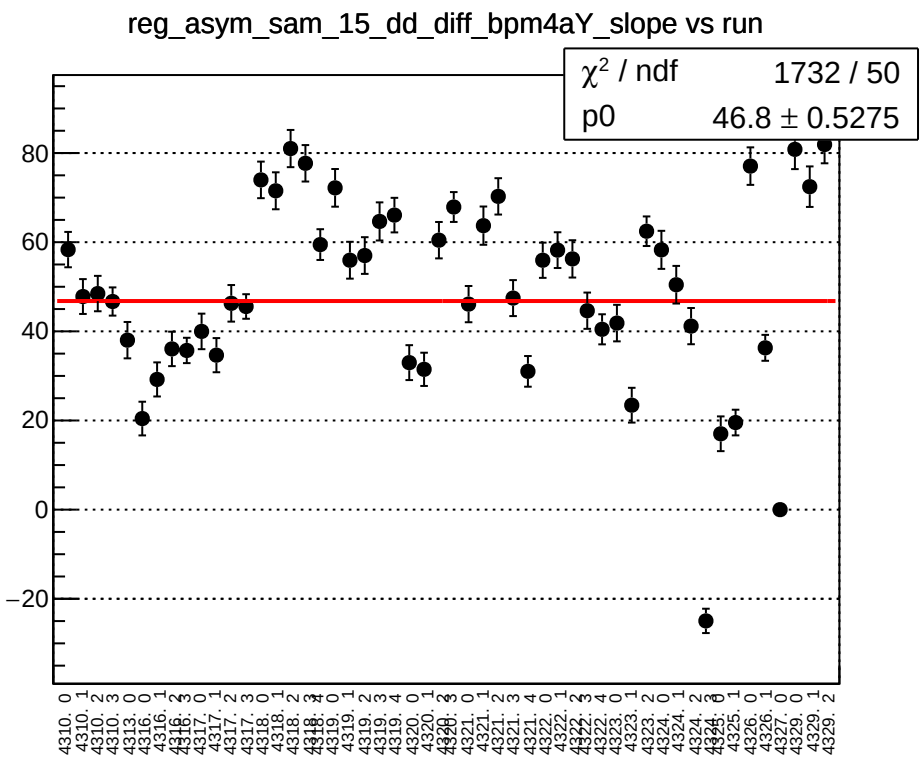

pull1D
Entries 52
Mean 0.06544
Std Dev 1.317
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

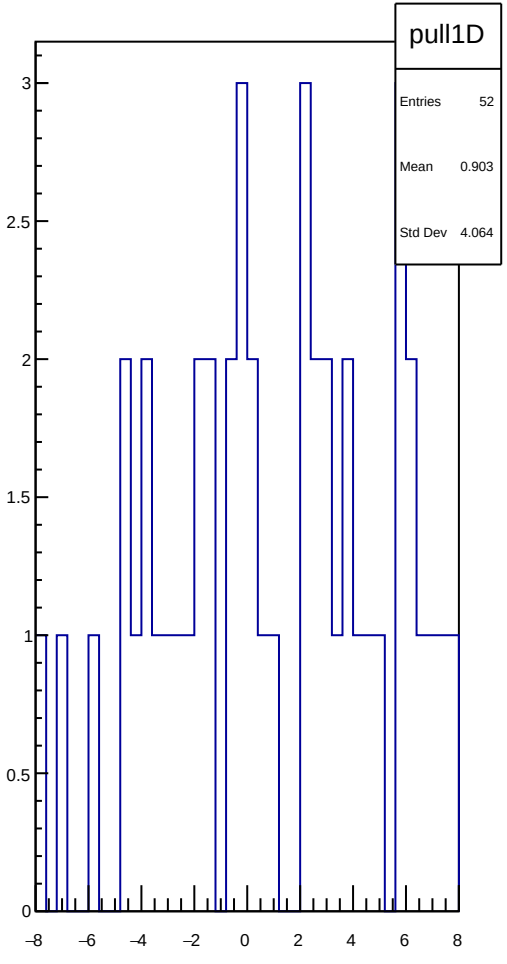

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 90.72 / 50
p0 −4.593 ± 0.06831
0
−1
−2
−3
−4
−5
−6
−7
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

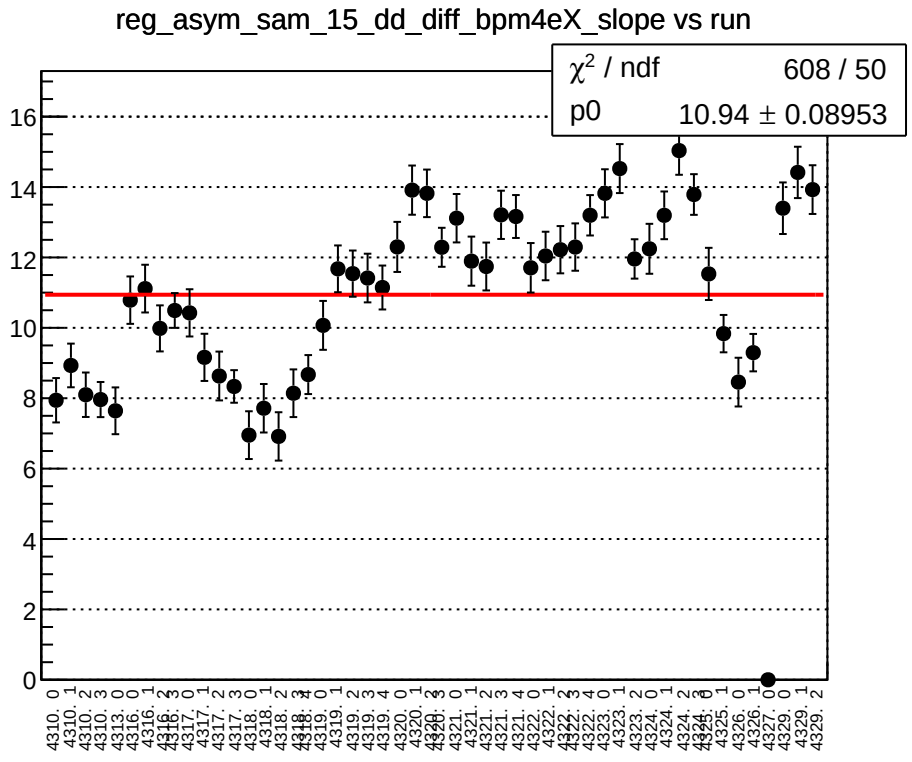

pull1D
Entries 52
Mean −0.01851
Std Dev 1.334
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

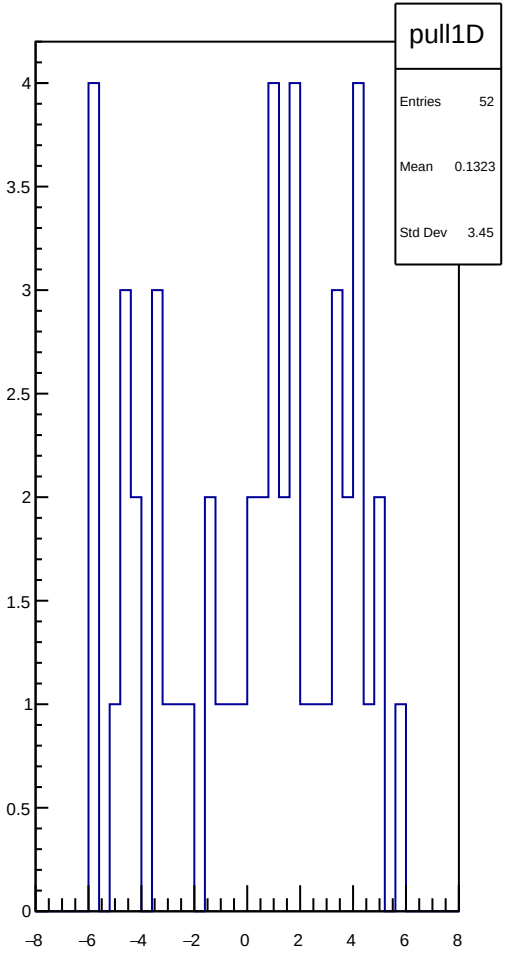

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 283.7 / 50
p0 −101.5 ± 0.5181
0
−20
−40
−60
−80
−100
−120

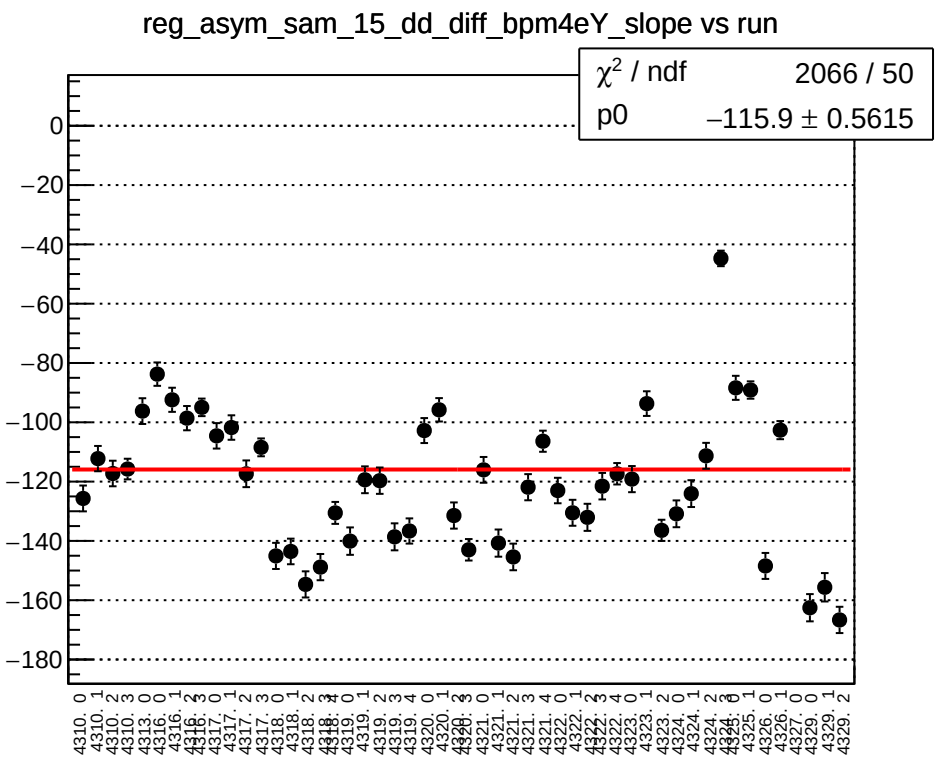

pull1D
Entries 52
Mean −0.2682
Std Dev 2.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

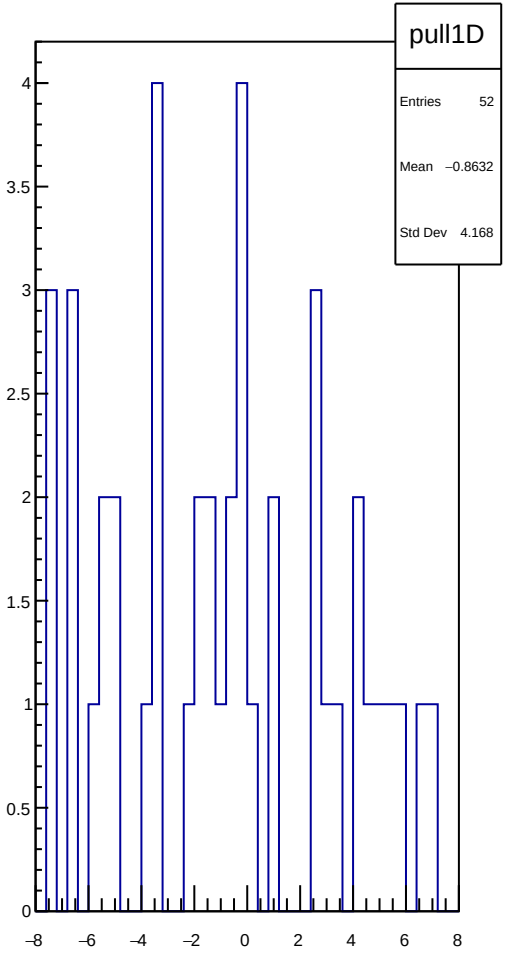

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 1732 / 50
p0 46.8 ± 0.5275
80
60
40
20
0
−20
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

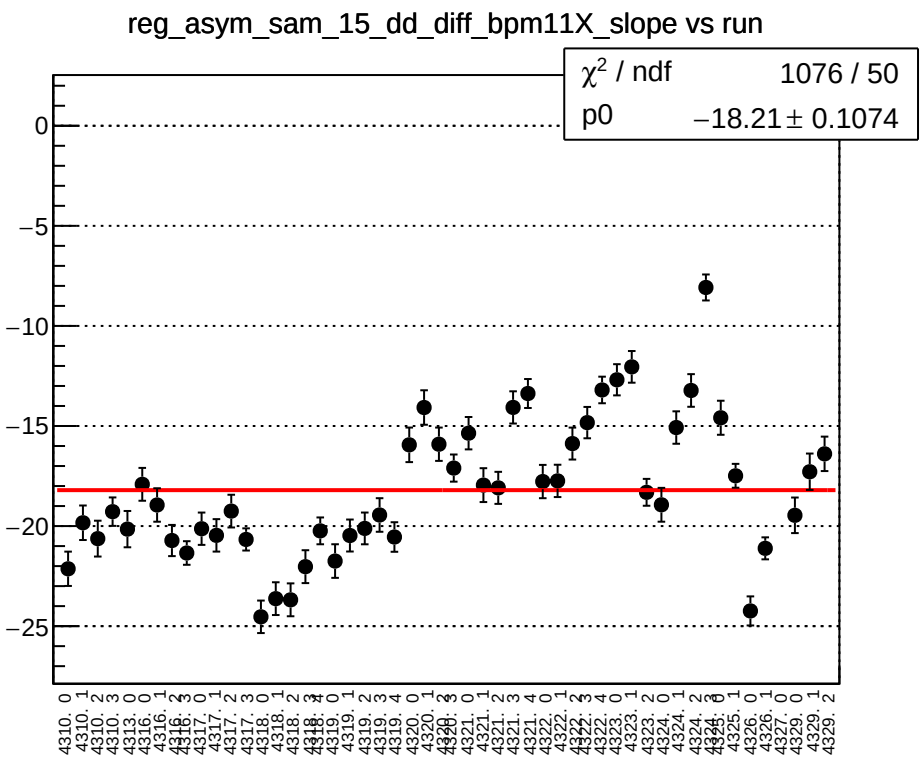

pull1D
Entries 52
Mean 0.903
Std Dev 4.064
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

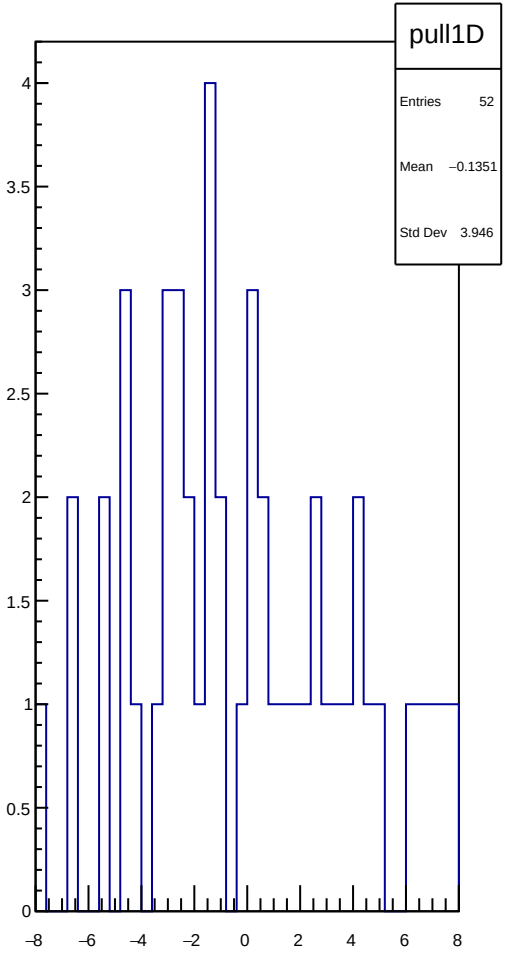

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 608 / 50
p0 10.94 ± 0.08953

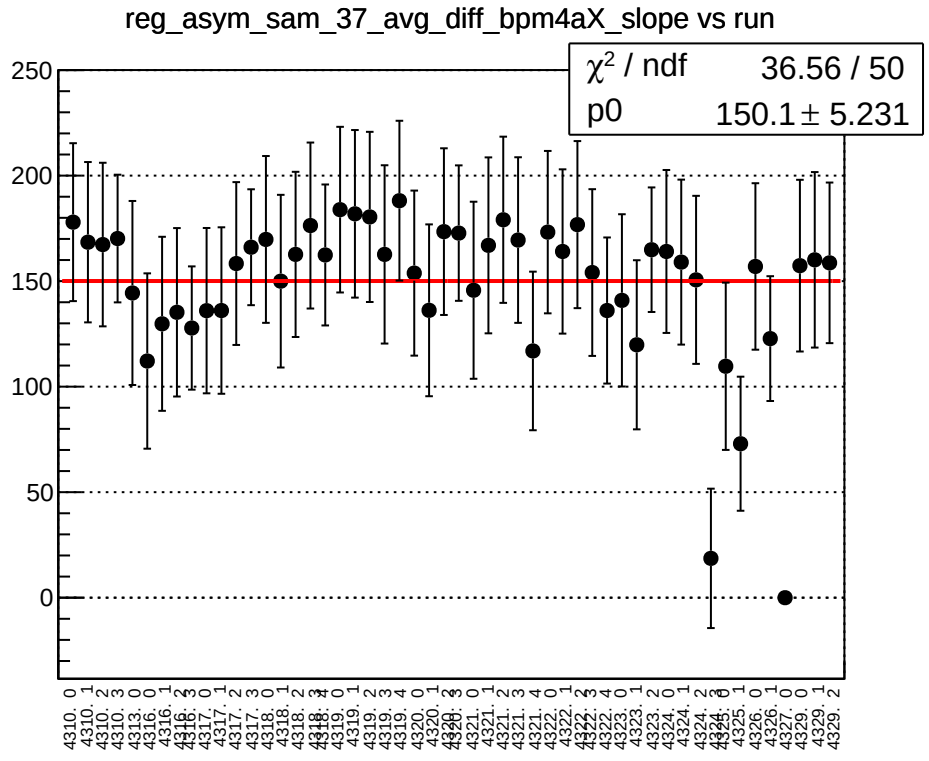

pull1D
Entries 52
Mean 0.1323
Std Dev 3.45

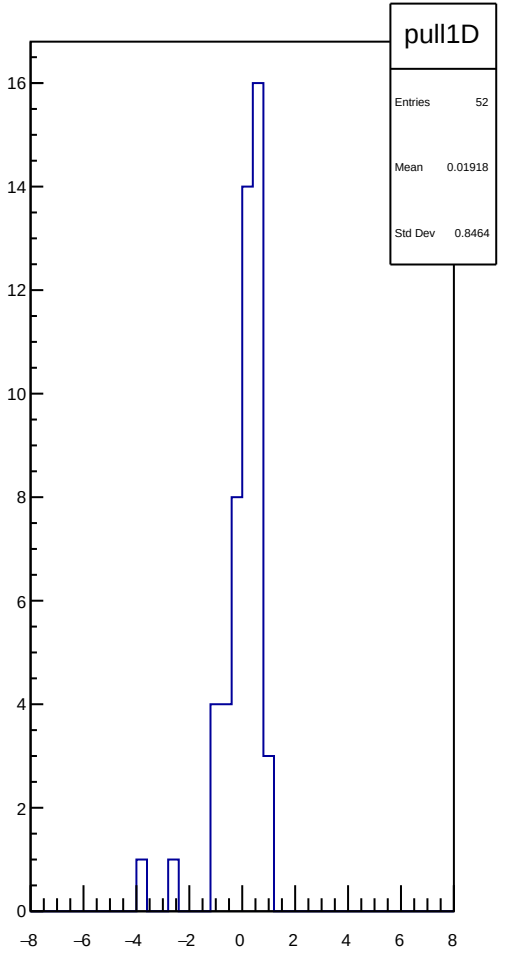

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 2066 / 50
p0 −115.9 ± 0.5615
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

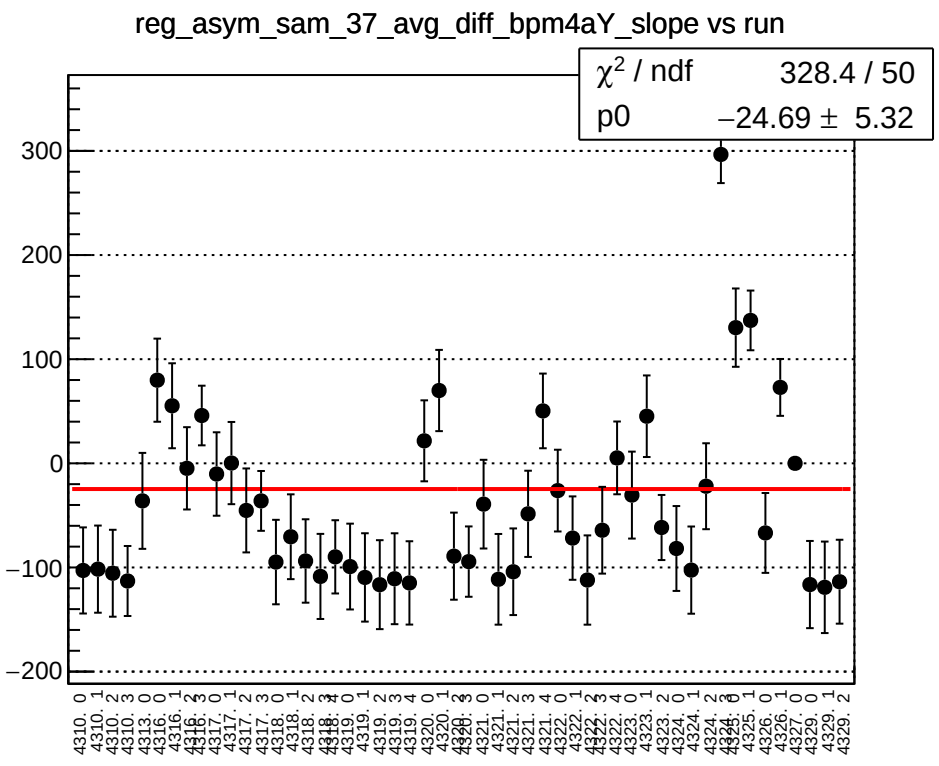

pull1D
Entries 52
Mean −0.8632
Std Dev 4.168
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

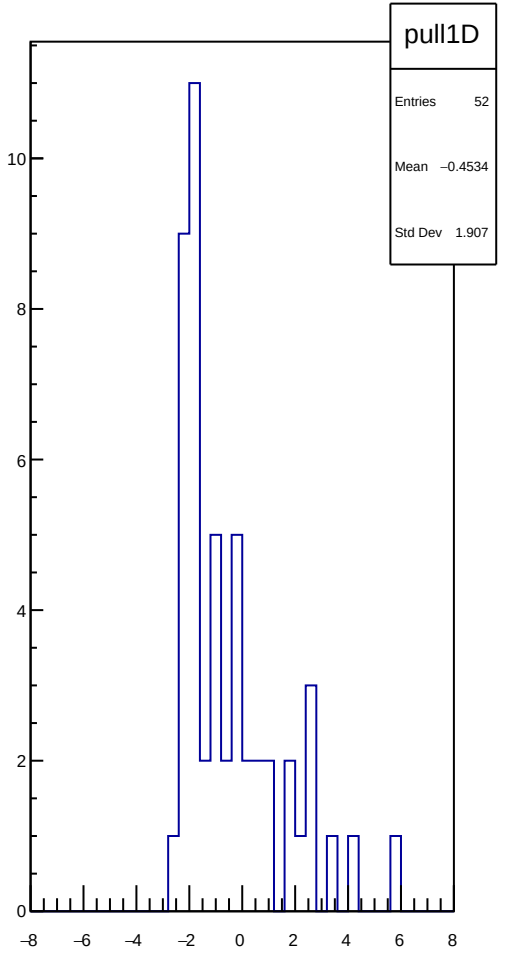

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 1076 / 50
p0 −18.21 ± 0.1074
0
−5
−10
−15
−20
−25
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

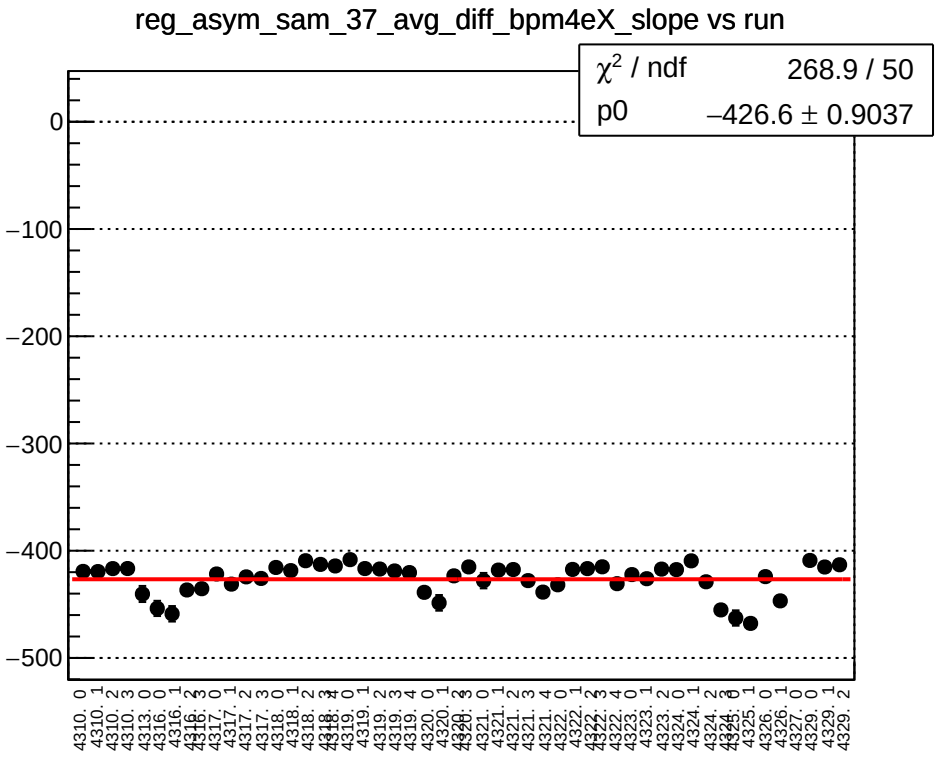

pull1D
Entries 52
Mean −0.1351
Std Dev 3.946
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

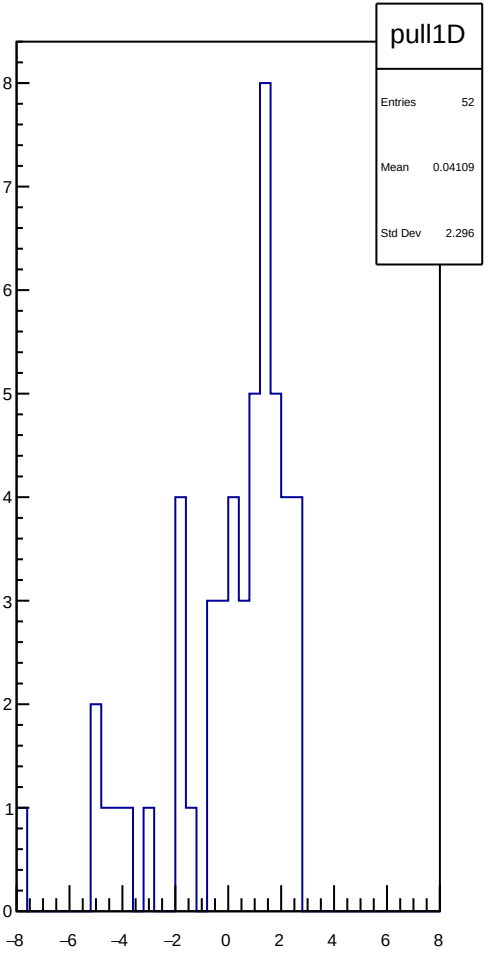

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.56 / 50
p0 150.1 ± 5.231
250
200
150
100
50
0

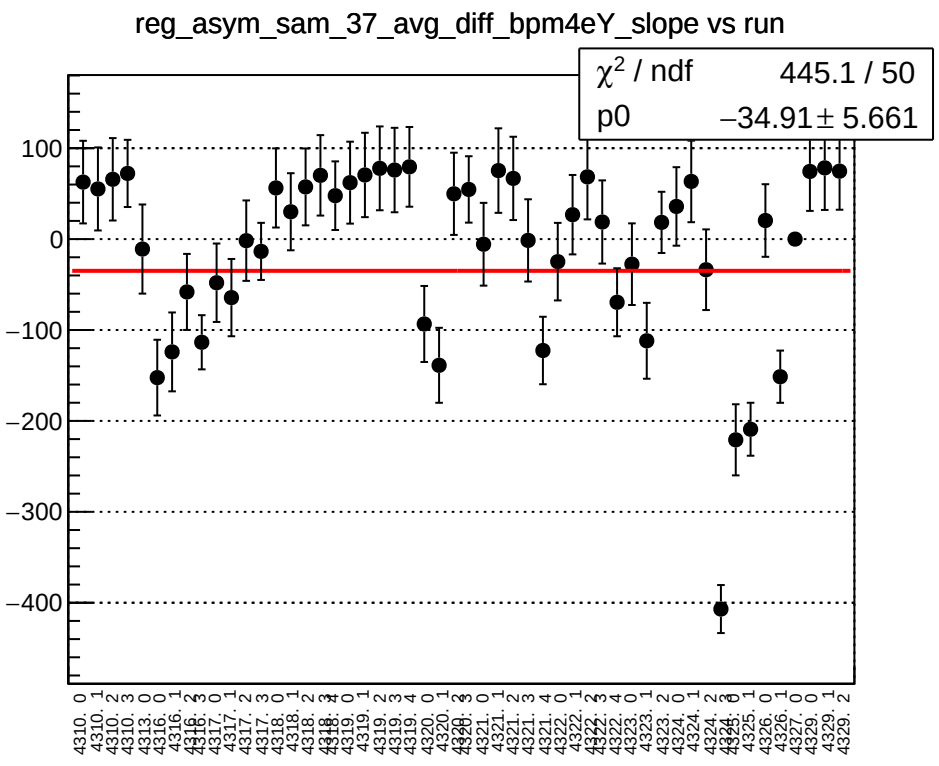

pull1D
Entries 52
Mean 0.01918
Std Dev 0.8464
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

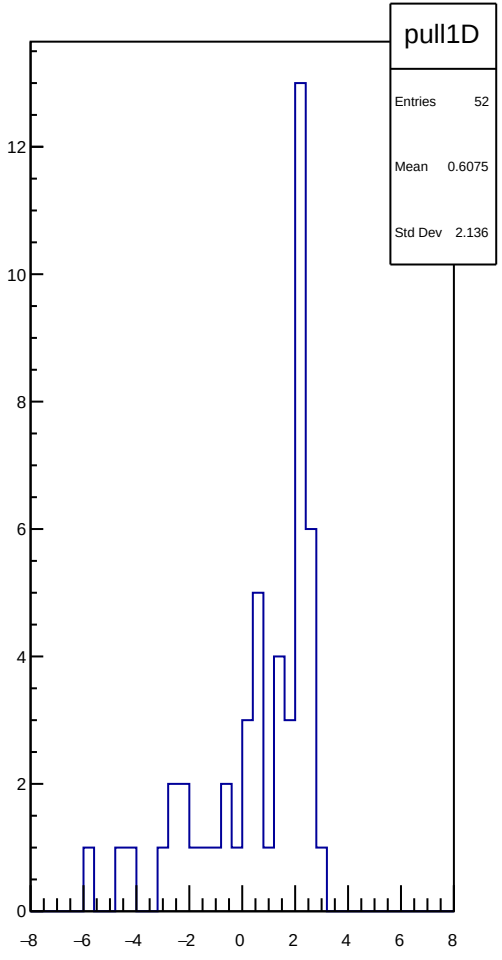

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 328.4 / 50
p0 −24.69 ± 5.32
300
200
100
0
−100
−200

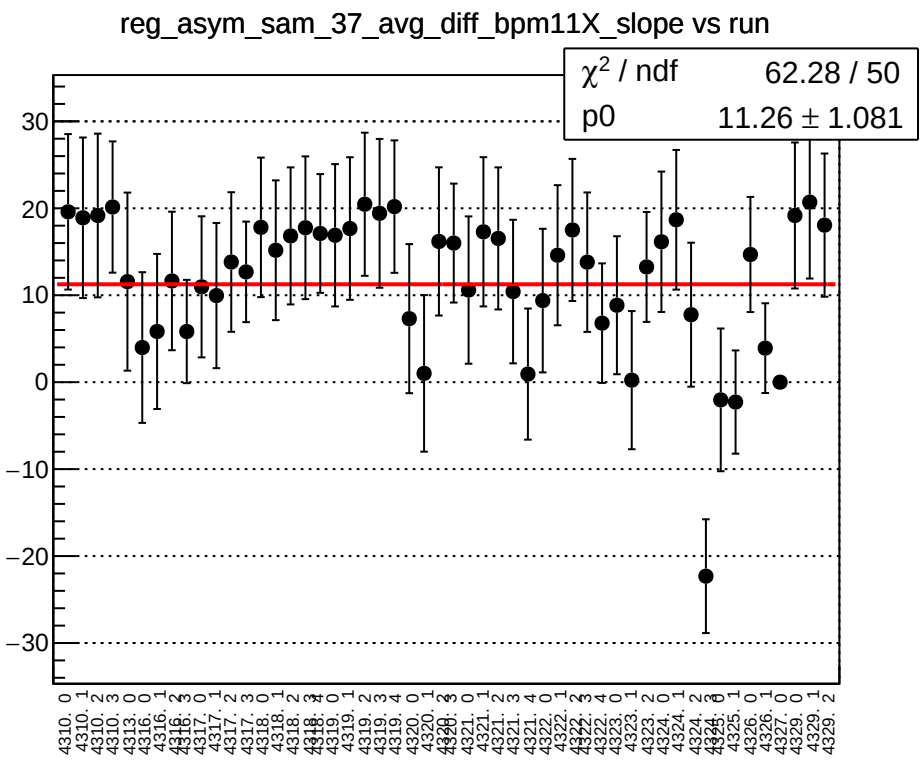

pull1D
Entries 52
Mean −0.4534
Std Dev 1.907
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

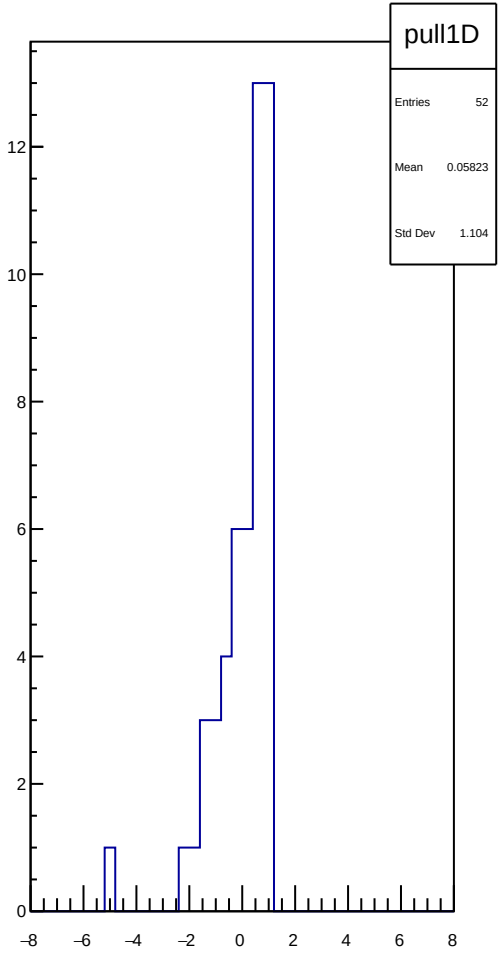

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 268.9 / 50
p0 −426.6 ± 0.9037
0
−100
−200
−300
−400
−500

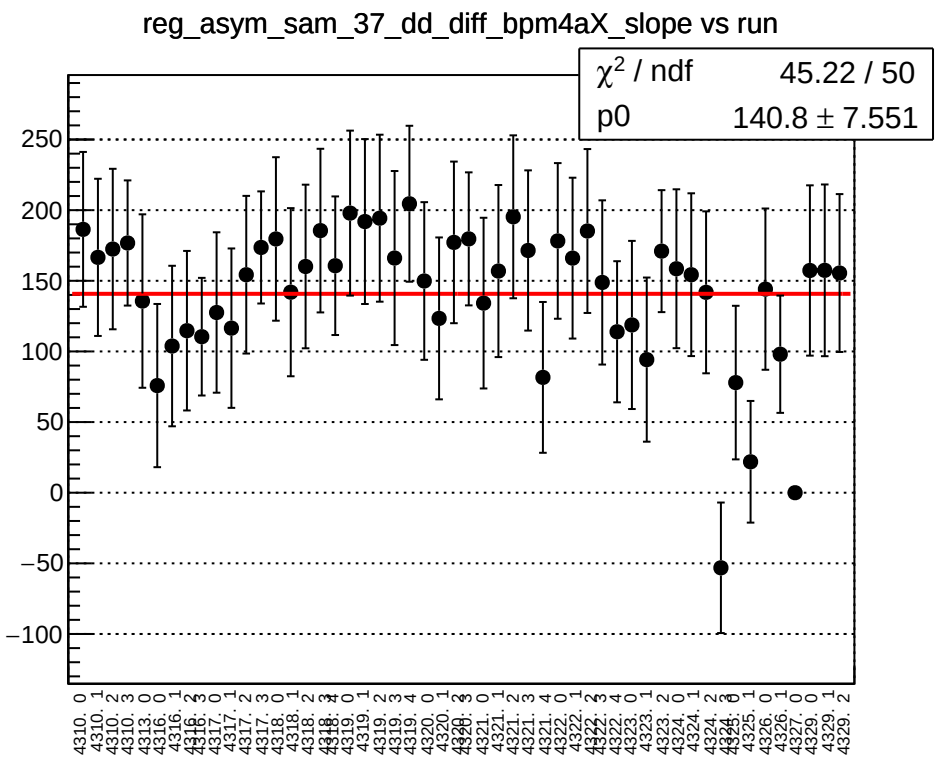

pull1D
Entries 52
Mean 0.04109
Std Dev 2.296
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

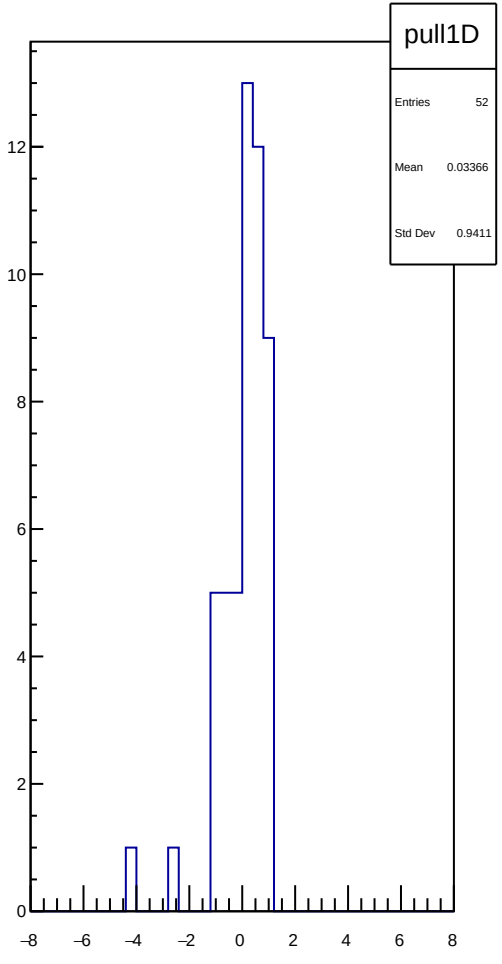

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 445.1 / 50
p0 −34.91 ± 5.661
100
0
−100
−200
−300
−400
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

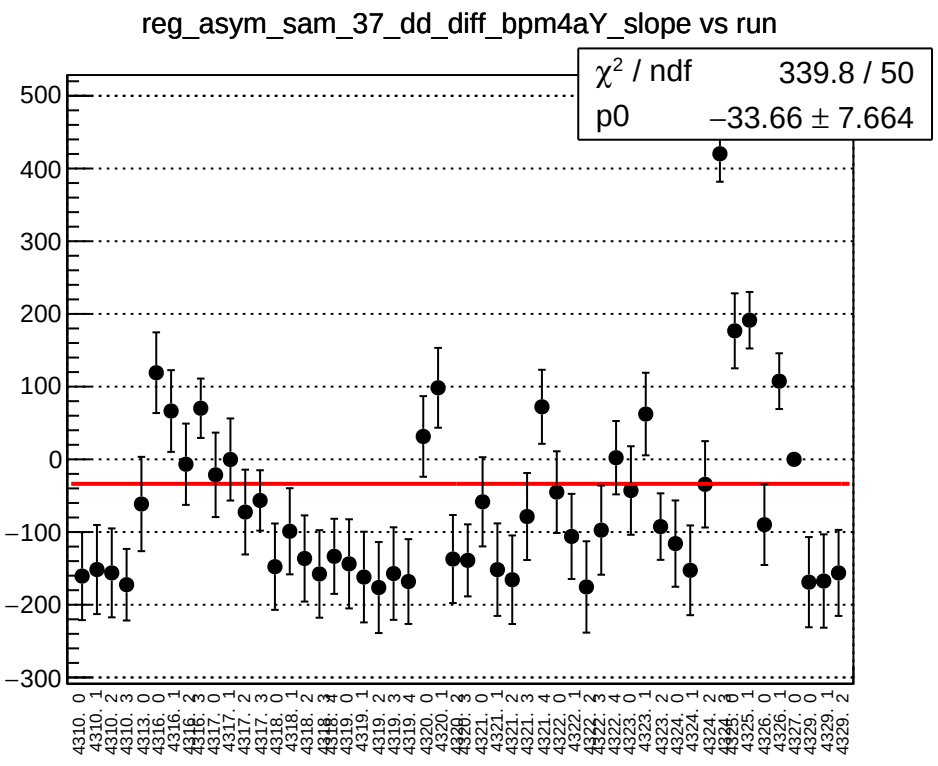

pull1D
Entries 52
Mean 0.6075
Std Dev 2.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

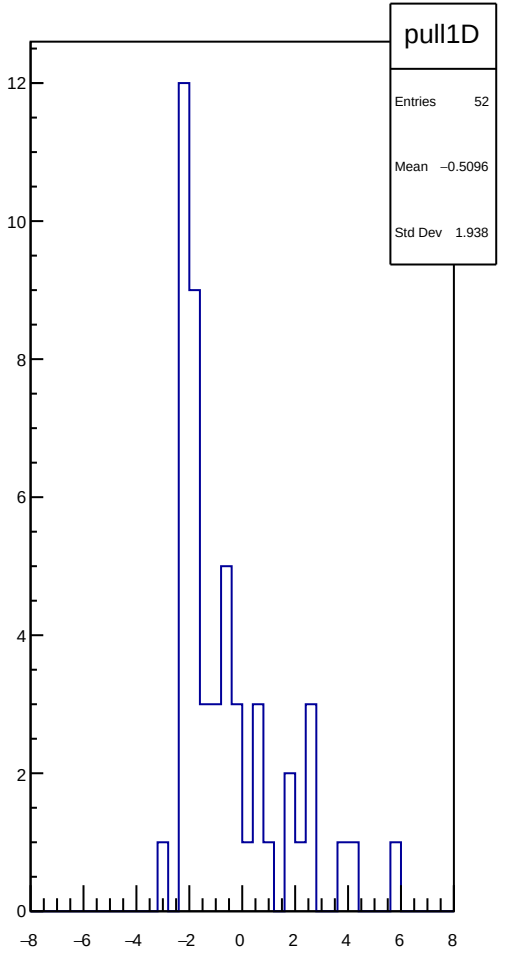

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 62.28 / 50
p0 11.26 ± 1.081
30
20
10
0
−10
−20
−30

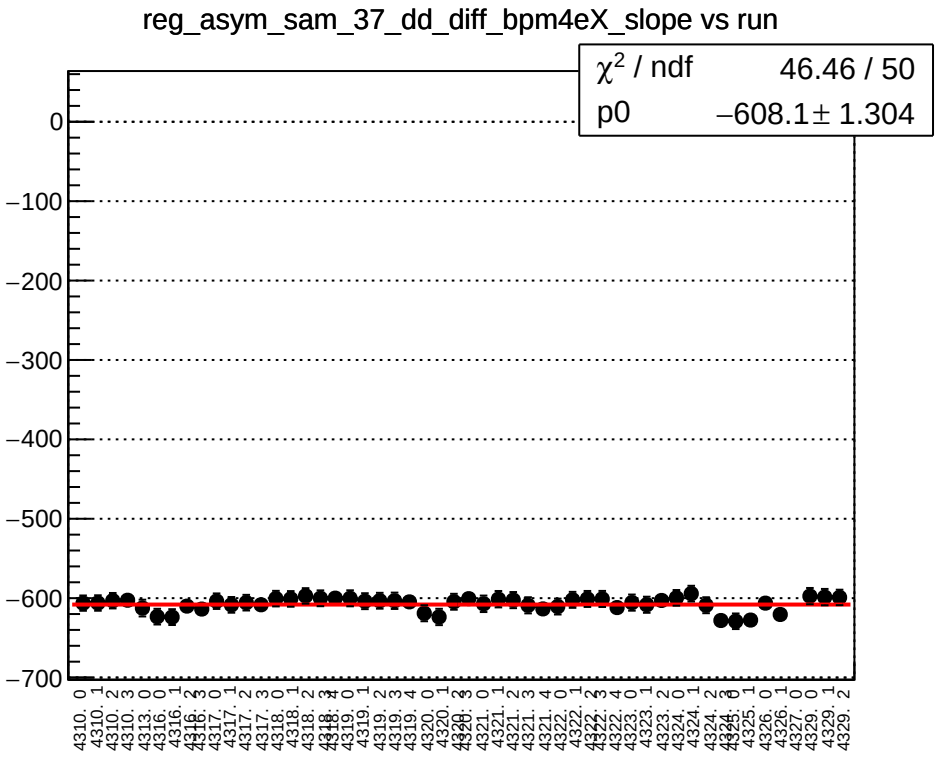

pull1D
Entries 52
Mean 0.05823
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

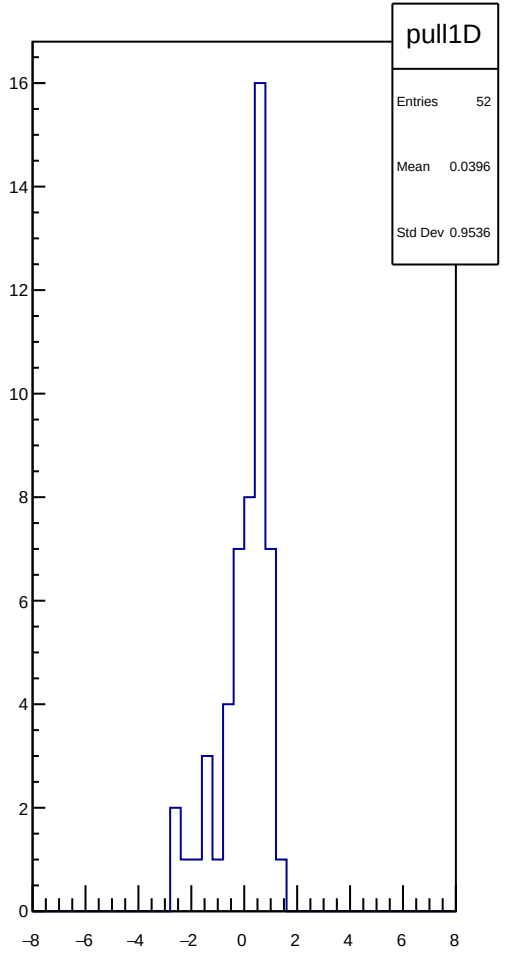

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.22 / 50
p0 140.8 ± 7.551
250
200
150
100
50
0
−50
−100
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

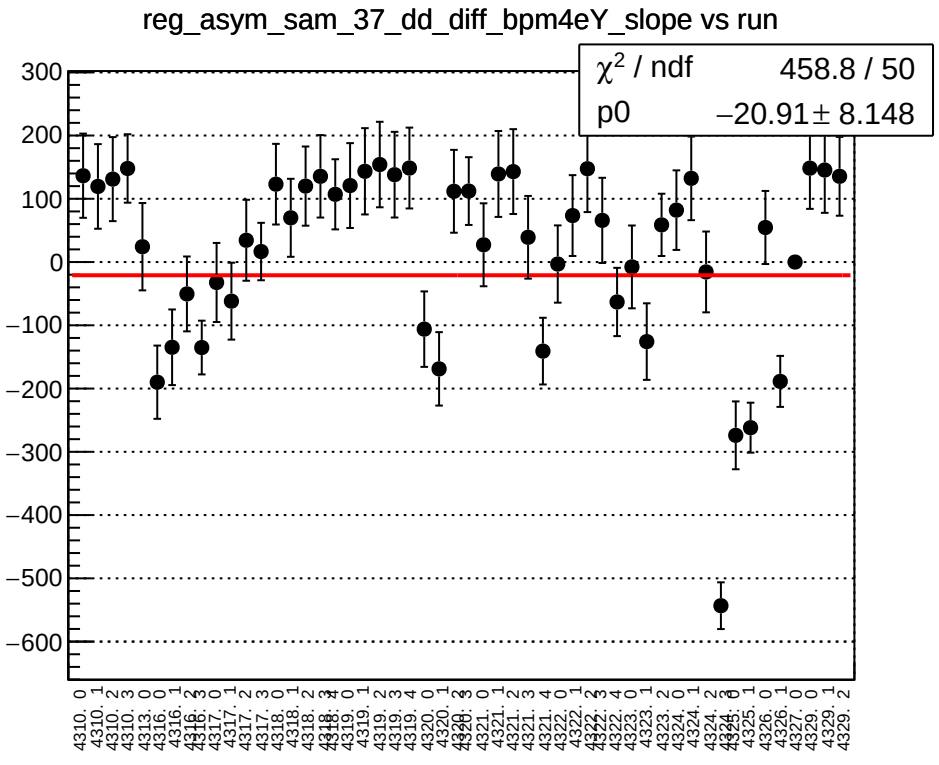

pull1D
Entries 52
Mean 0.03366
Std Dev 0.9411
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

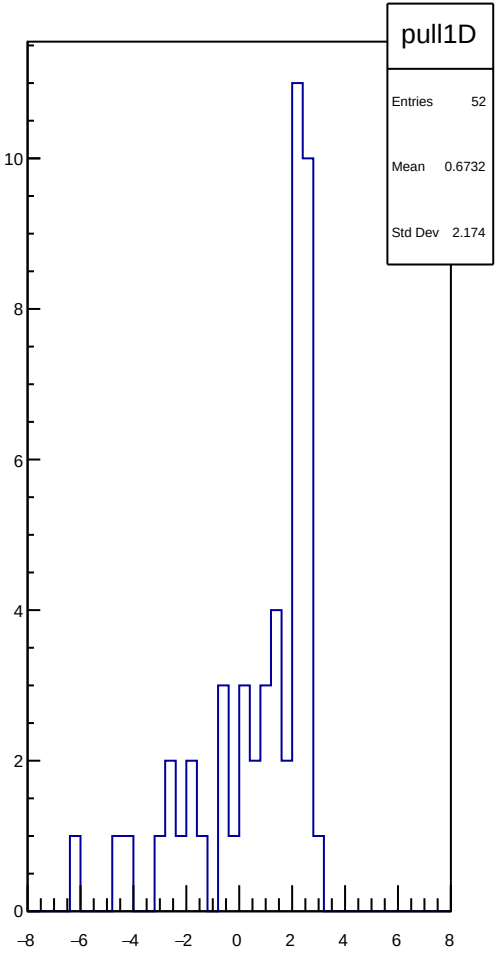

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 339.8 / 50
p0 −33.66 ± 7.664
500
400
300
200
100
0
−100
−200
−300

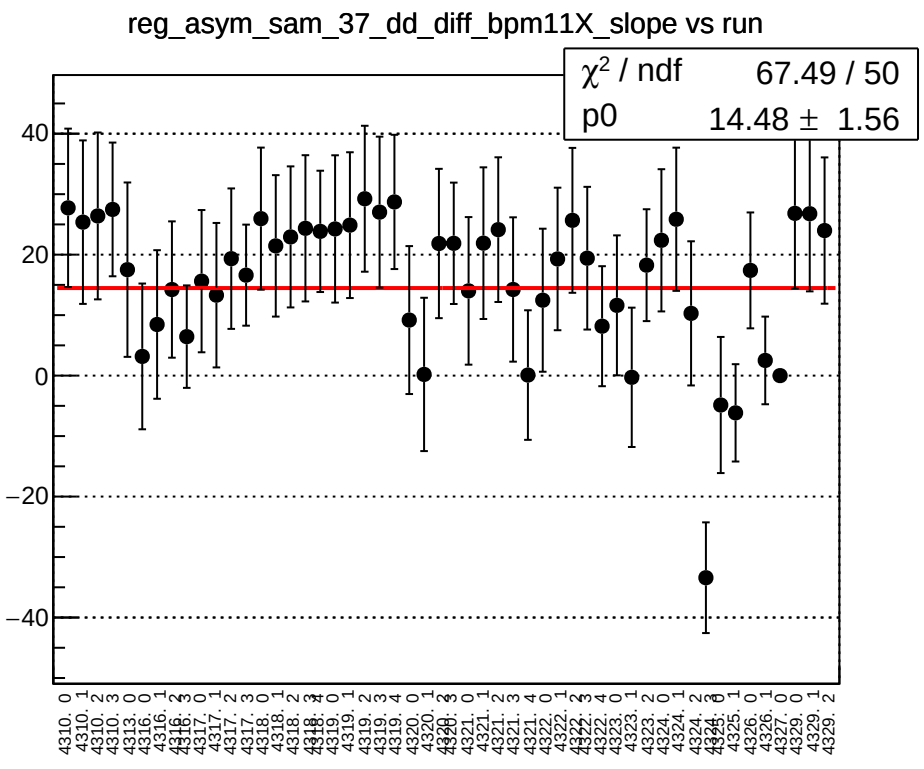

pull1D
Entries 52
Mean −0.5096
Std Dev 1.938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

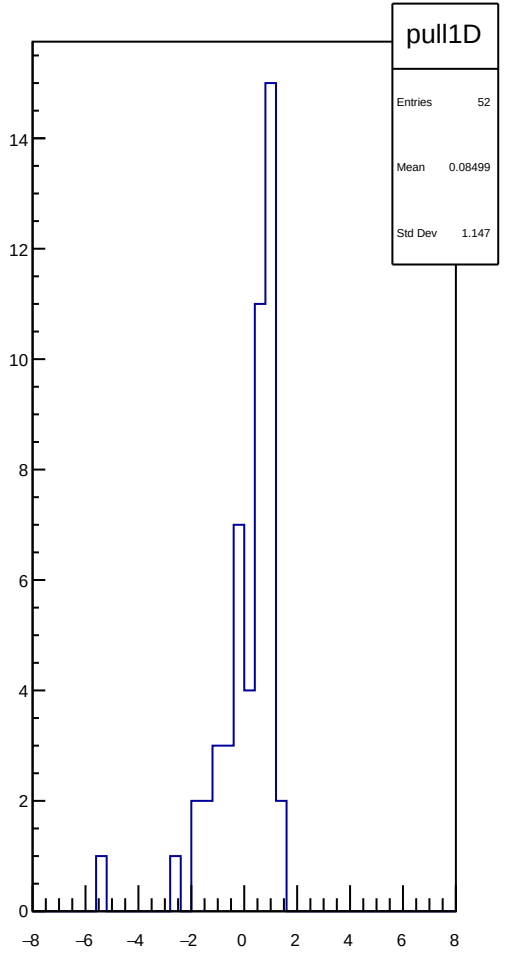

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.46 / 50
p0 −608.1± 1.304
0
−100
−200
−300
−400
−500
−600
−700

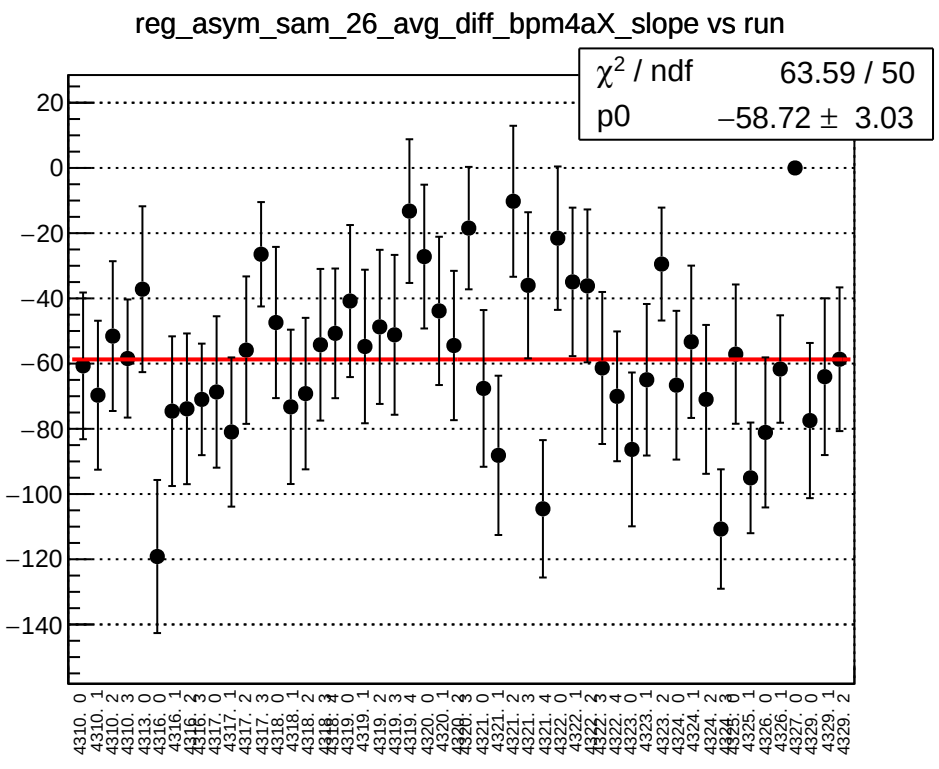

pull1D
Entries 52
Mean 0.0396
Std Dev 0.9536
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

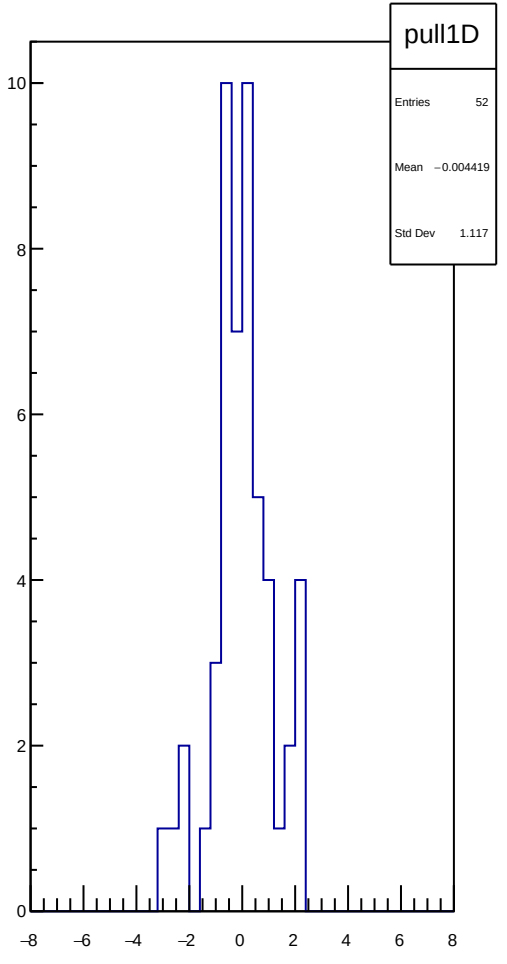

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 458.8 / 50
p0 −20.91 ± 8.148
300
200
100
0
−100
−200
−300
−400
−500
−600

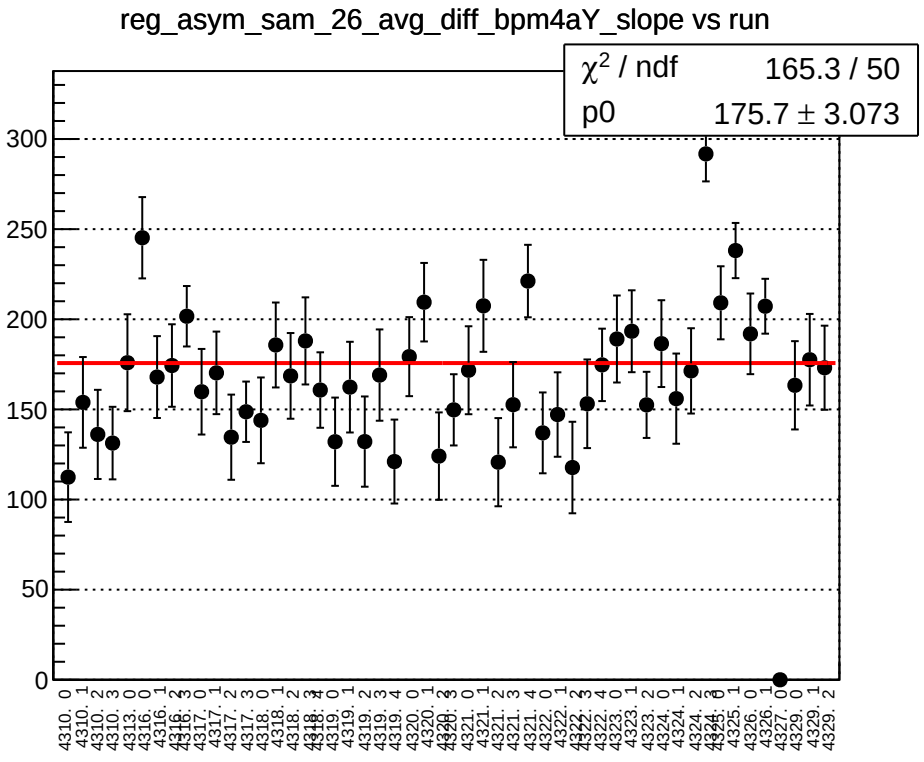

pull1D
Entries 52
Mean 0.6732
Std Dev 2.174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

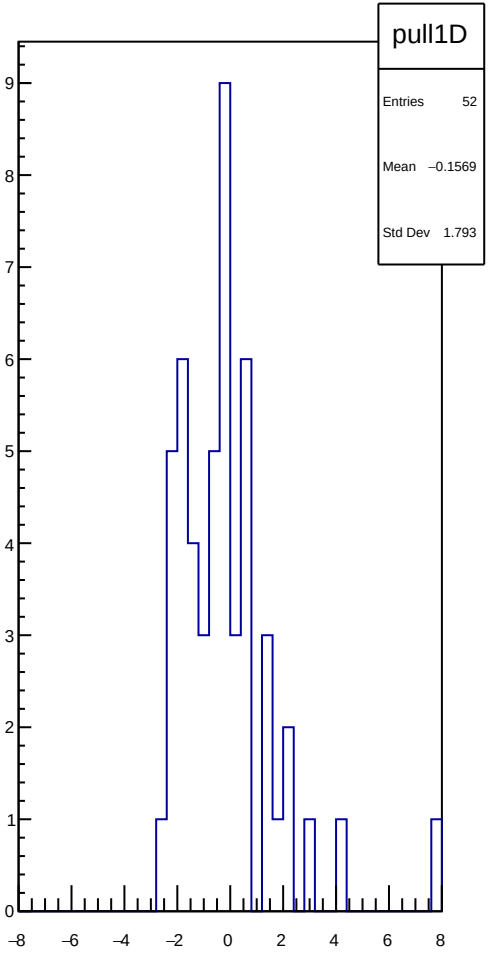

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 67.49 / 50
p0 14.48 ± 1.56
40
20
0
−20
−40
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

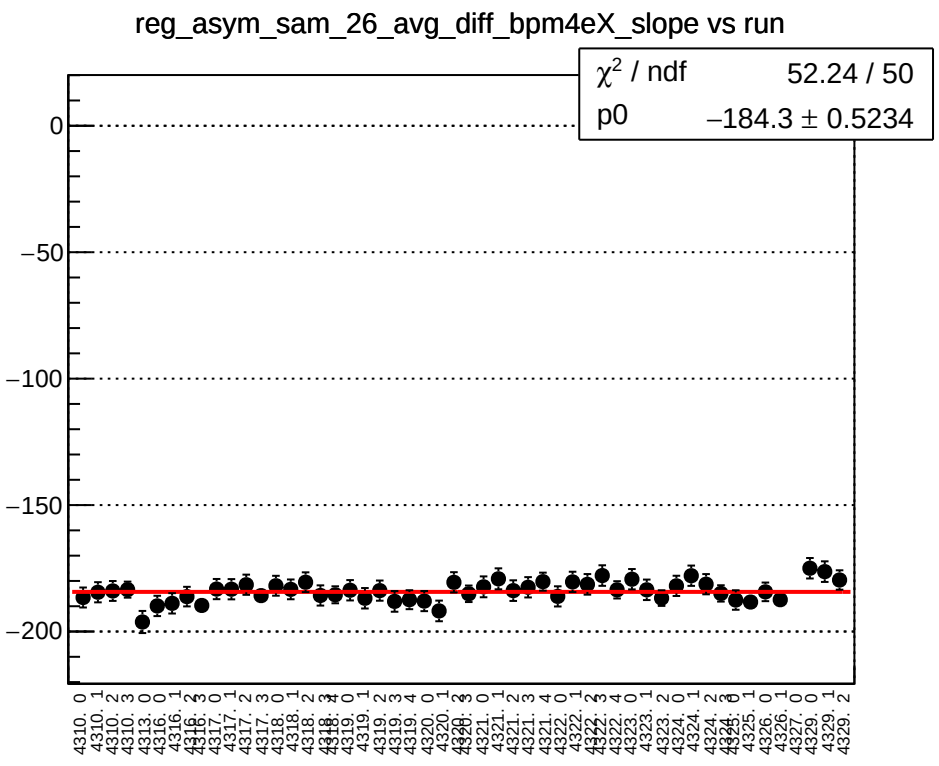

pull1D
Entries 52
Mean 0.08499
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

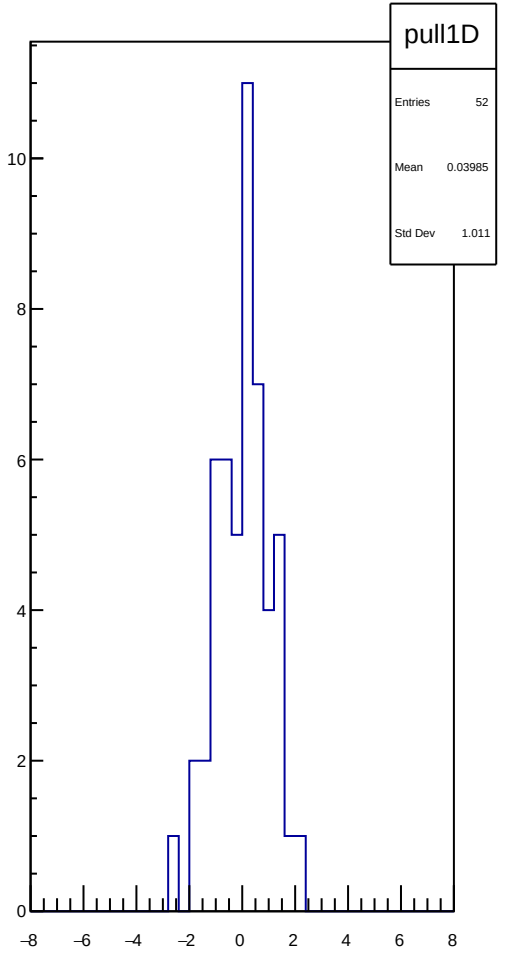

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 63.59 / 50
p0 −58.72 ± 3.03
20
0
−20
−40
−60
−80
−100
−120
−140
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

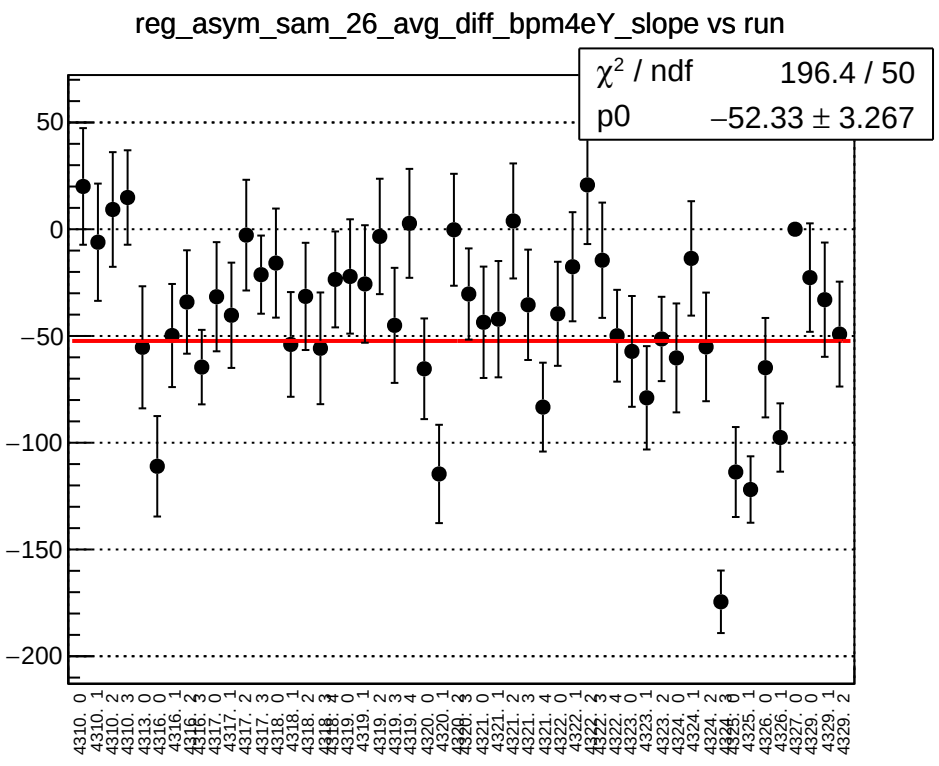

pull1D
Entries 52
Mean −0.004419
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

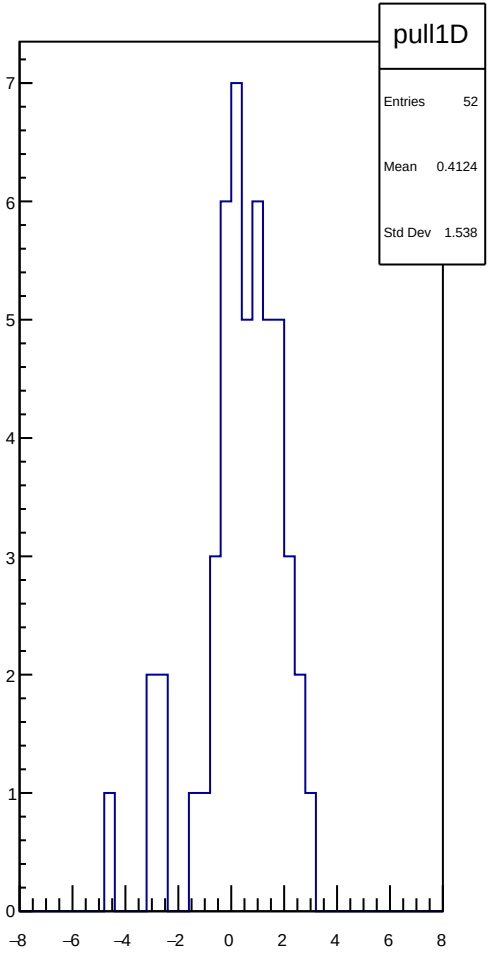

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 165.3 / 50
p0 175.7 ± 3.073
300
250
200
150
100
50
0

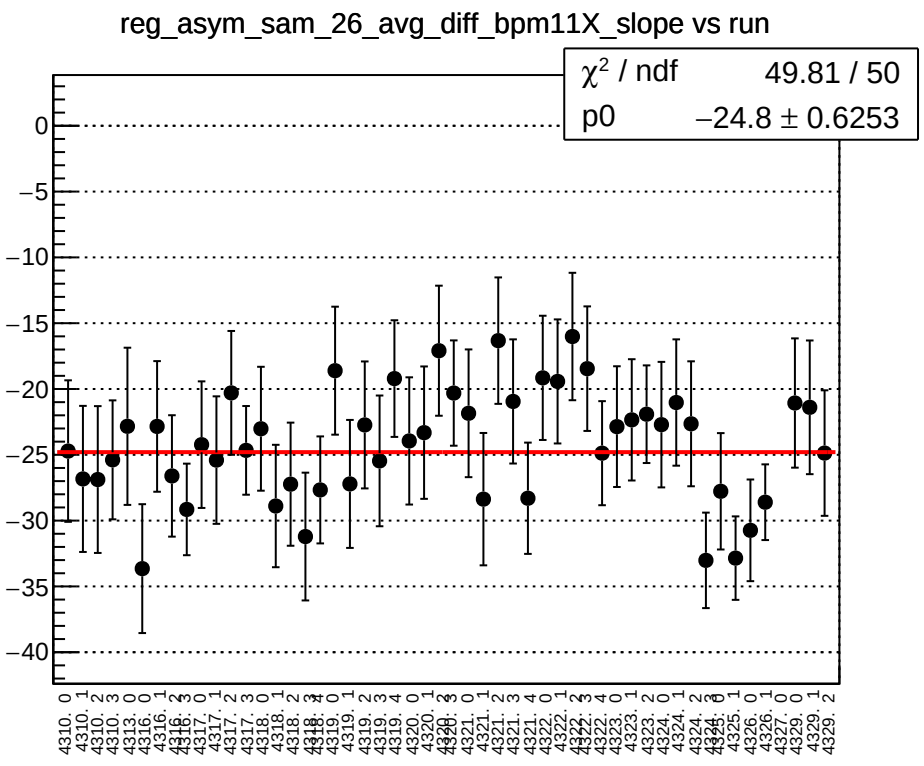

pull1D
Entries 52
Mean −0.1569
Std Dev 1.793
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

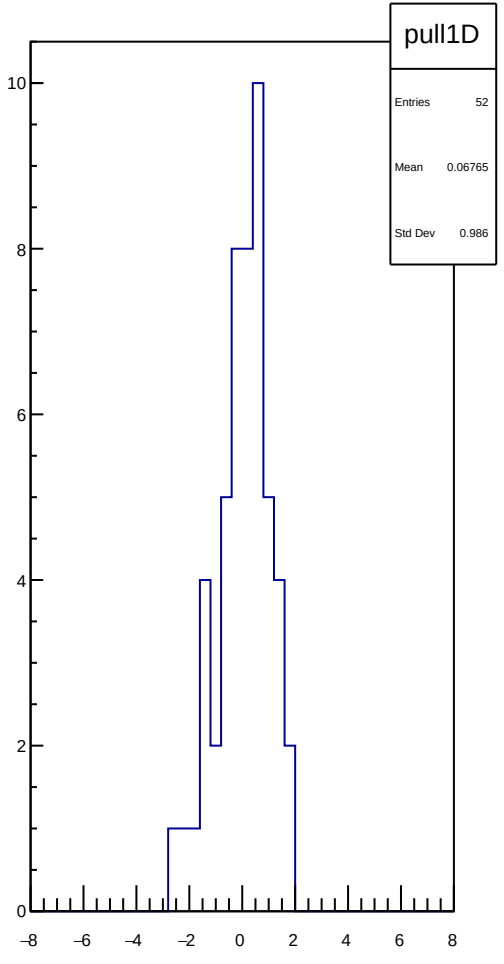

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.24 / 50
p0 −184.3 ± 0.5234
0
−50
−100
−150
−200

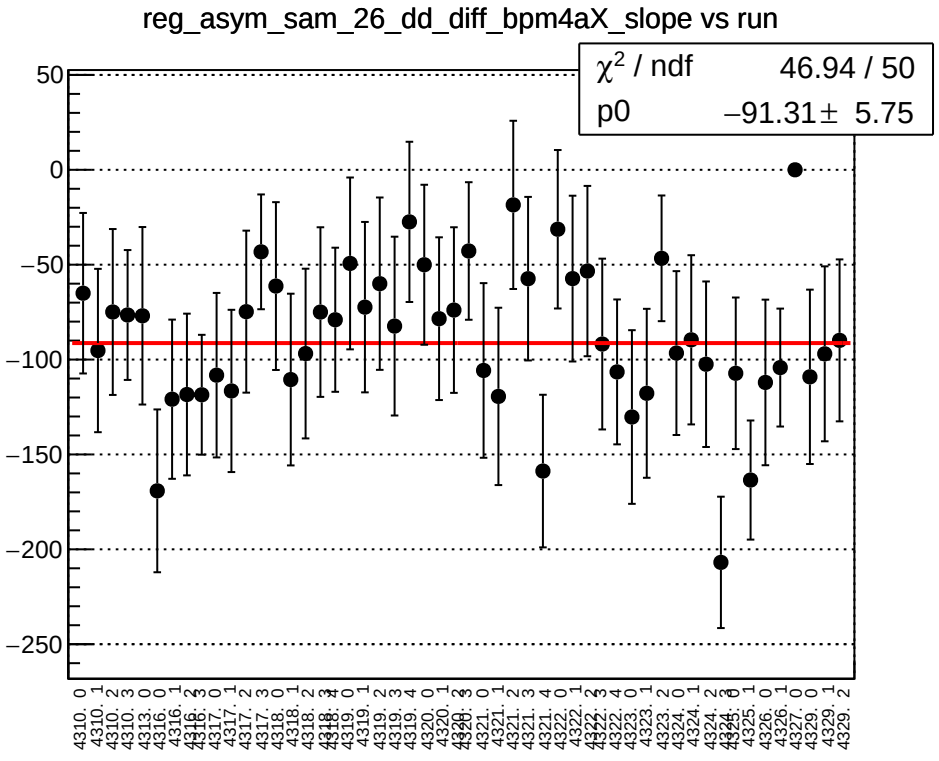

pull1D
Entries 52
Mean 0.03985
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

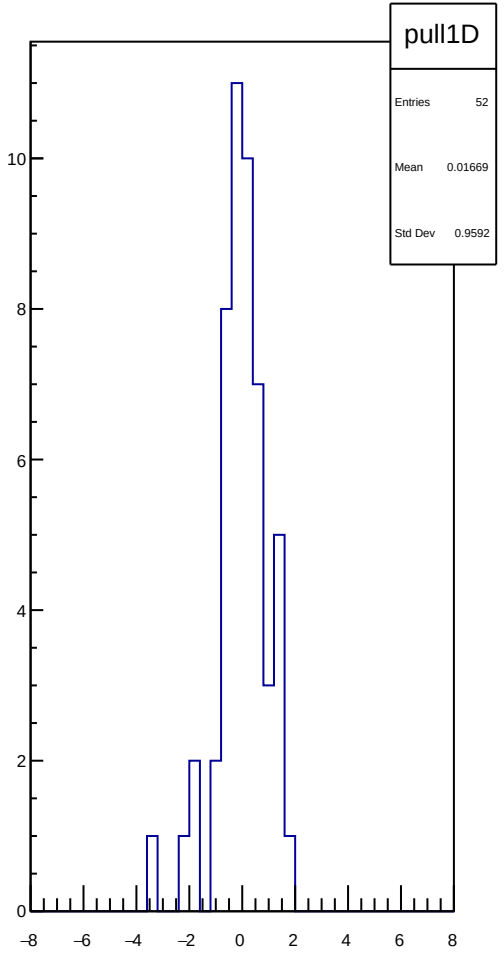

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 196.4 / 50
p0 −52.33 ± 3.267
50
0
−50
−100
−150
−200

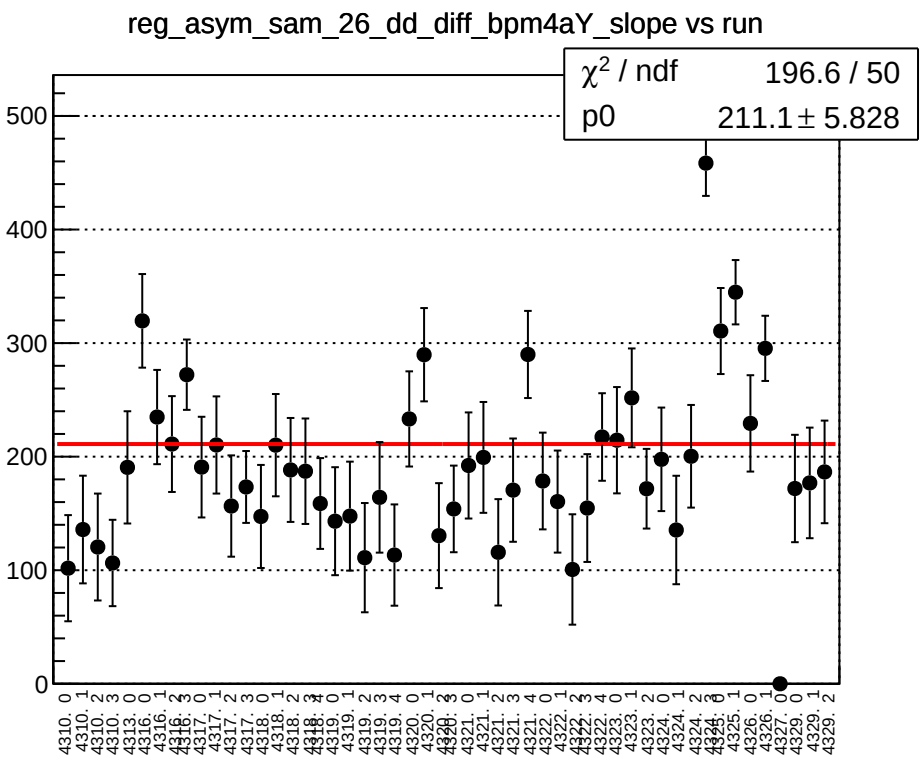

pull1D
Entries 52
Mean 0.4124
Std Dev 1.538
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

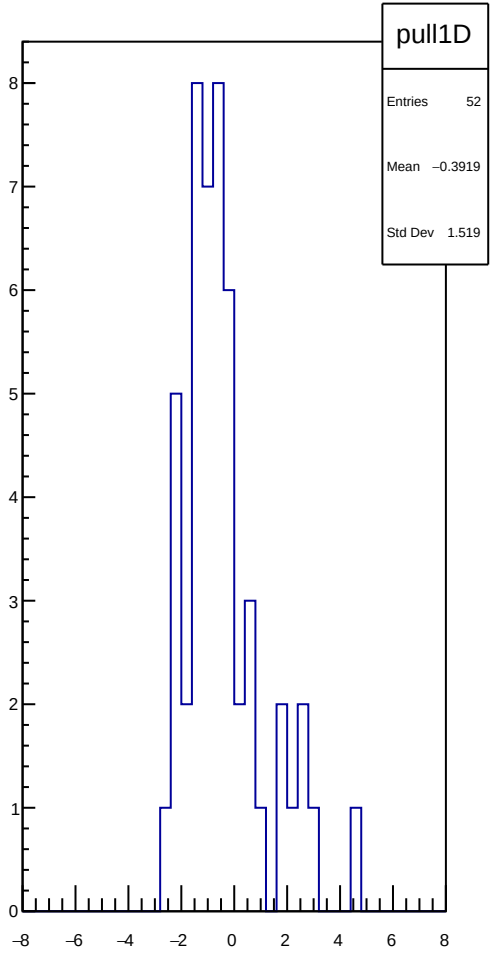

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 49.81 / 50
p0 −24.8 ± 0.6253
0
−5
−10
−15
−20
−25
−30
−35
−40

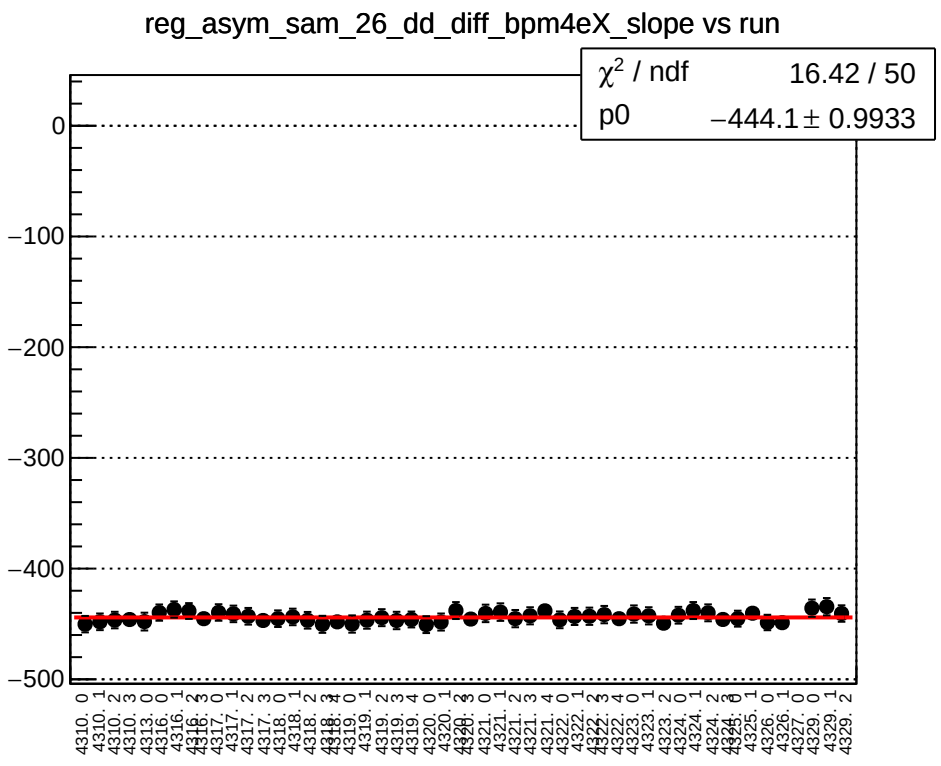

pull1D
Entries 52
Mean 0.06765
Std Dev 0.986
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

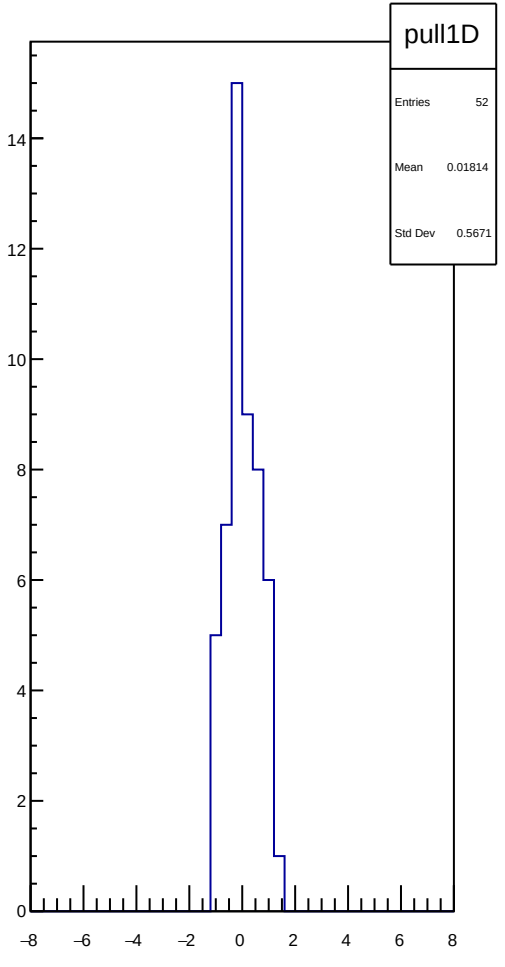

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.94 / 50
p0 −91.31± 5.75
50
0
−50
−100
−150
−200
−250

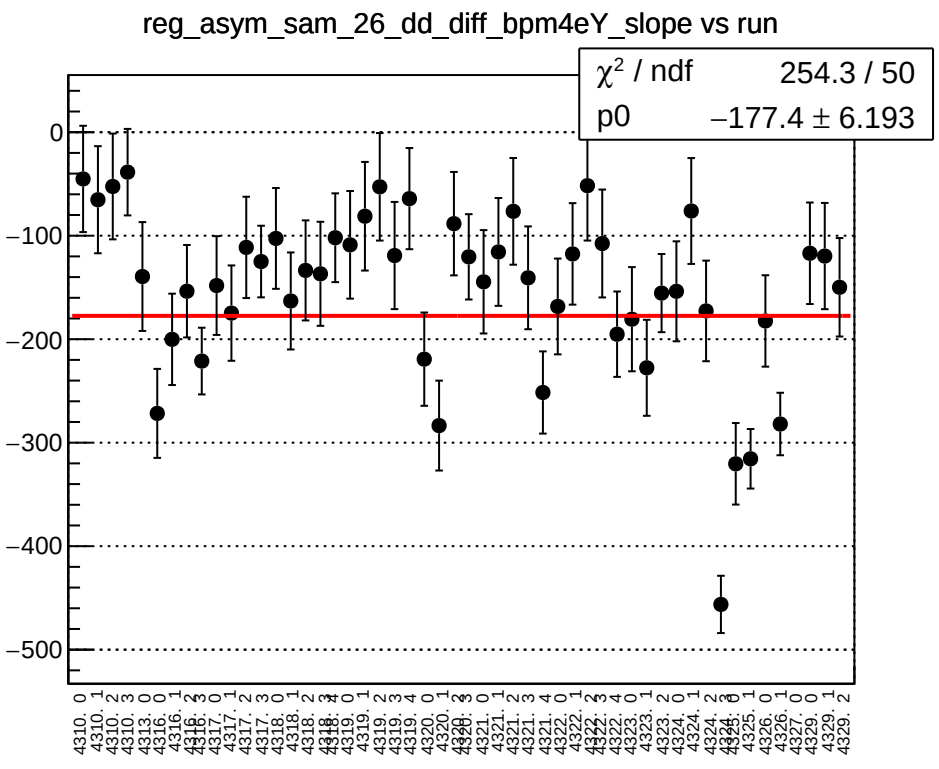

pull1D
Entries 52
Mean 0.01669
Std Dev 0.9592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

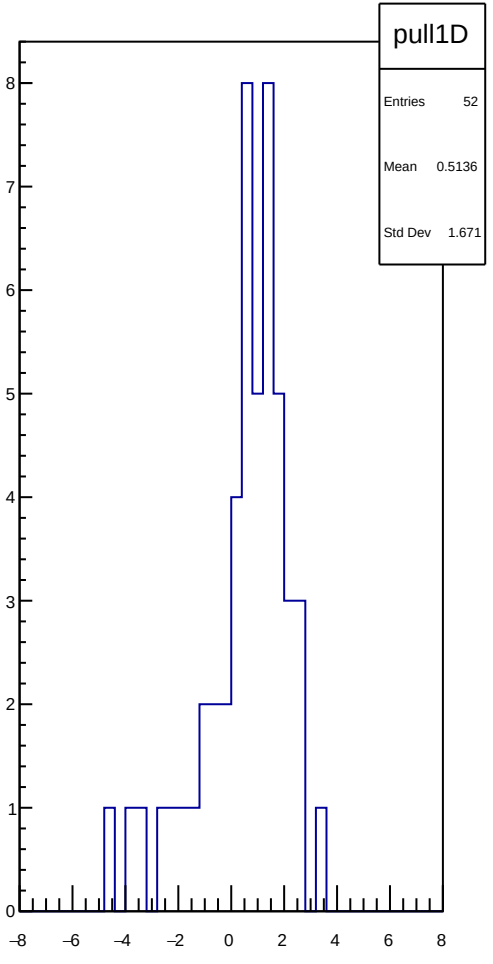

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 196.6 / 50
p0 211.1 ± 5.828
500
400
300
200
100
0


pull1D
Entries 52
Mean −0.3919
Std Dev 1.519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.42 / 50
p0 −444.1 ± 0.9933
0
−100
−200
−300
−400
−500


pull1D
Entries 52
Mean 0.01814
Std Dev 0.5671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 254.3 / 50
p0 −177.4 ± 6.193
0
−100
−200
−300
−400
−500


pull1D
Entries 52
Mean 0.5136
Std Dev 1.671
8
7
6
5
4
3
2
1
0
−8
−6
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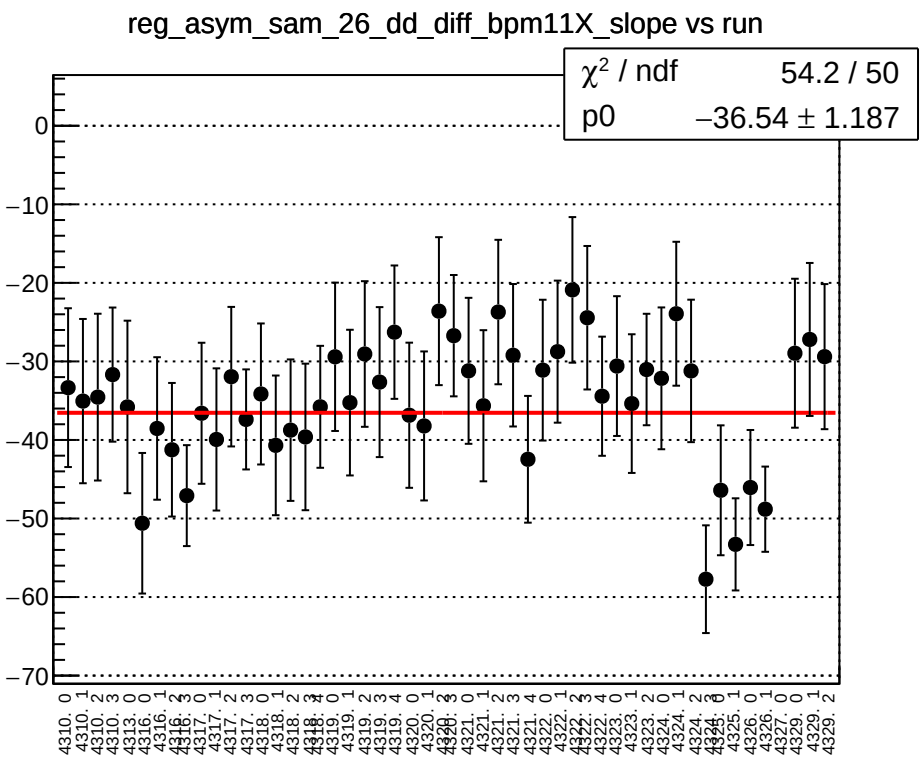
2
4
6
8


reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 54.2 / 50
p0 −36.54 ± 1.187
0
−10
−20
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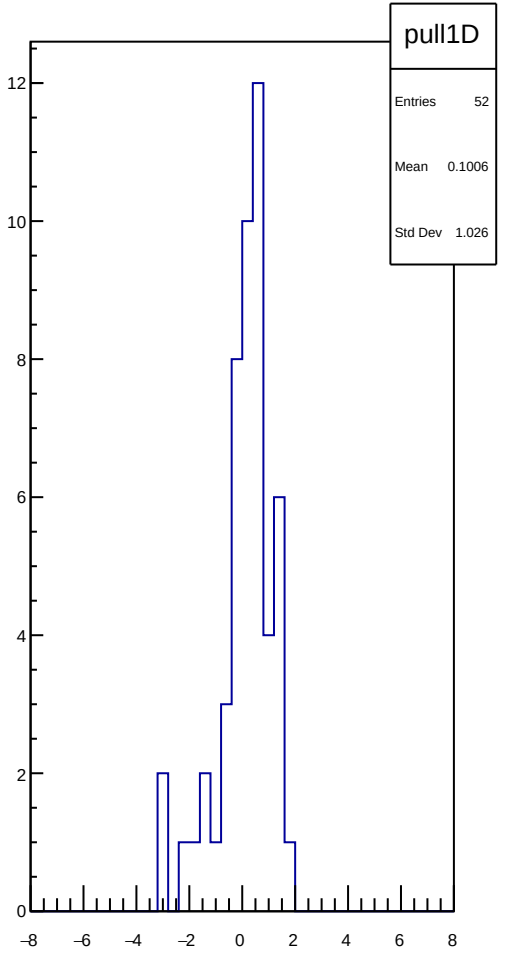
−40
−50
−60
−70


pull1D
Entries 52
Mean 0.1006
Std Dev 1.026
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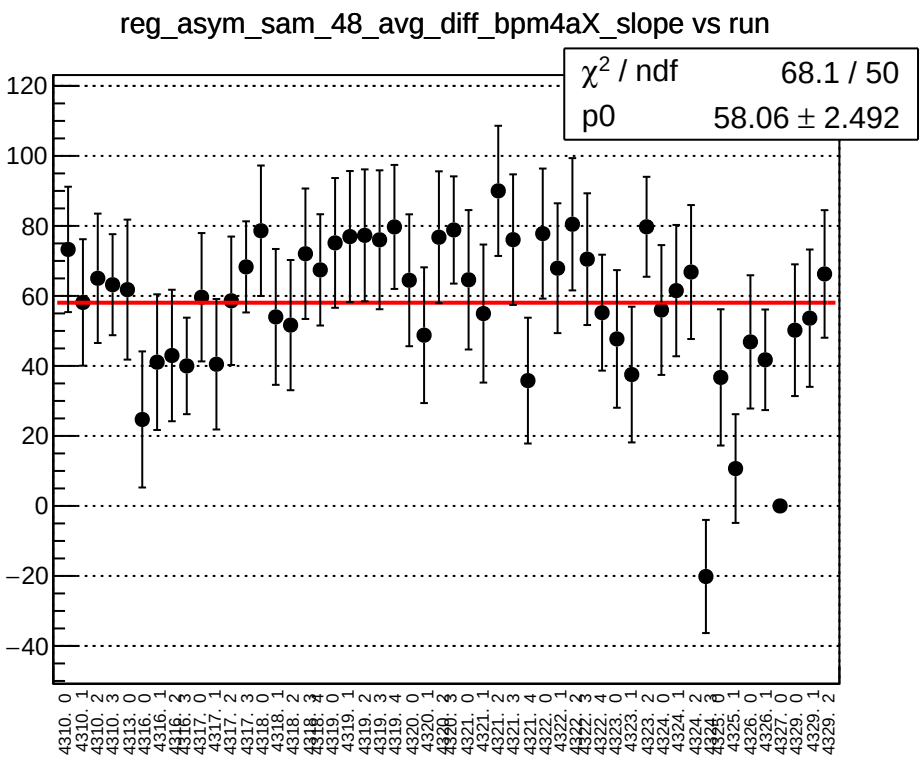
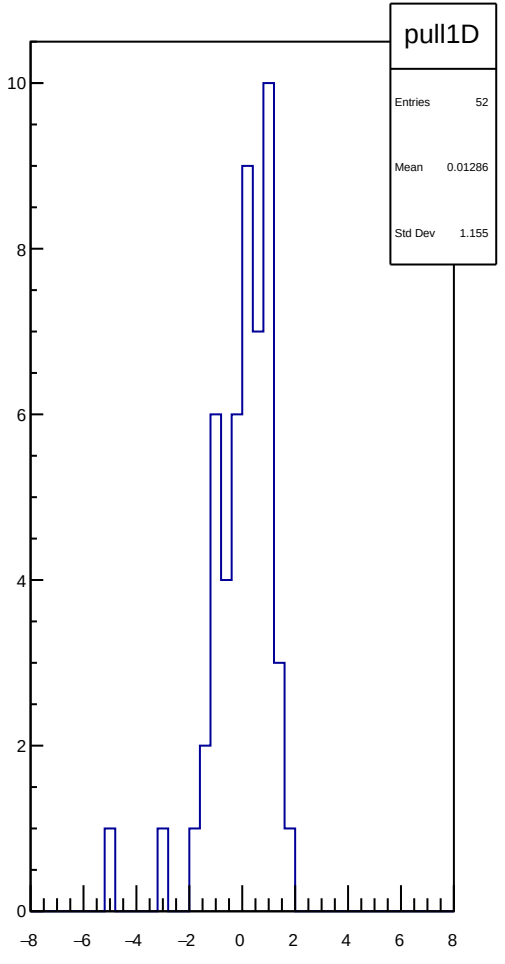
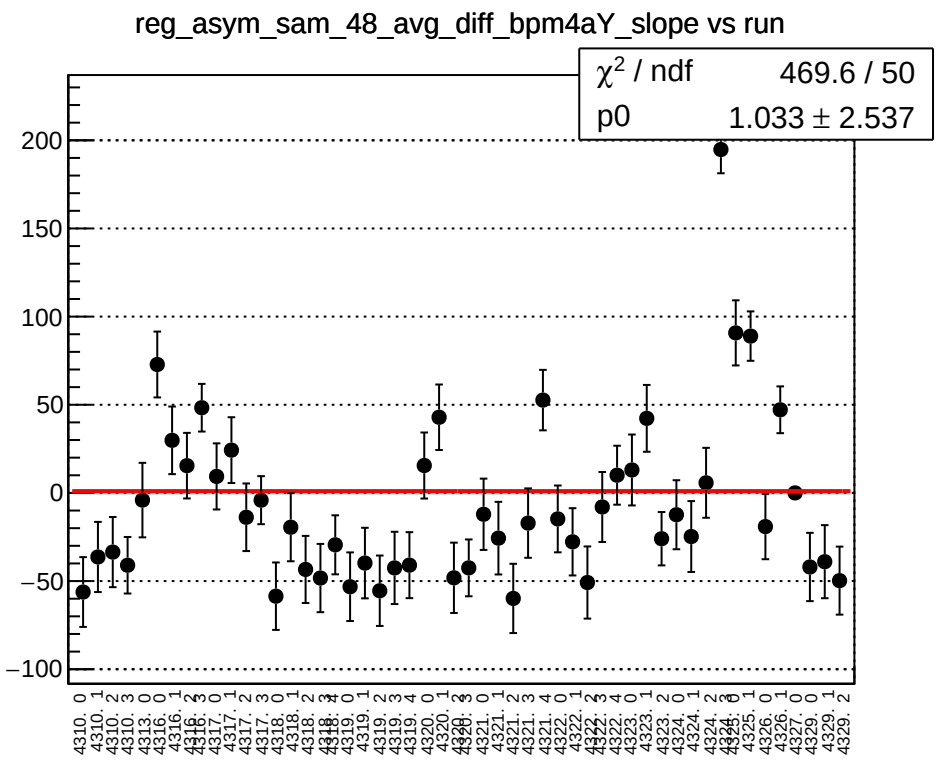
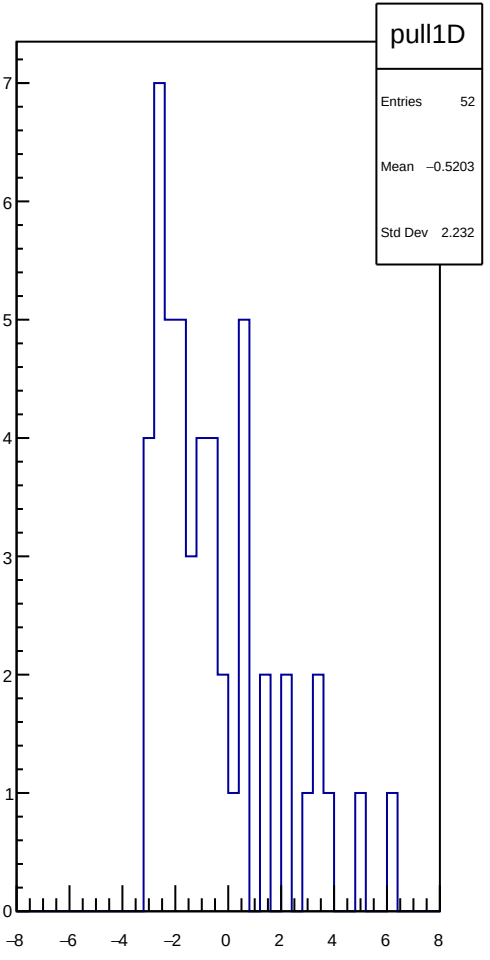
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 68.1 / 50
p0 58.06 ± 2.492
120
100
80
60
40
20
0
−20
−40


pull1D
Entries 52
Mean 0.01286
Std Dev 1.155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 469.6 / 50
p0 1.033 ± 2.537
200
150
100
50
0
−50
−100


pull1D
Entries 52
Mean −0.5203
Std Dev 2.232
7
6
5
4
3
2
1
0
−8
−6
−4
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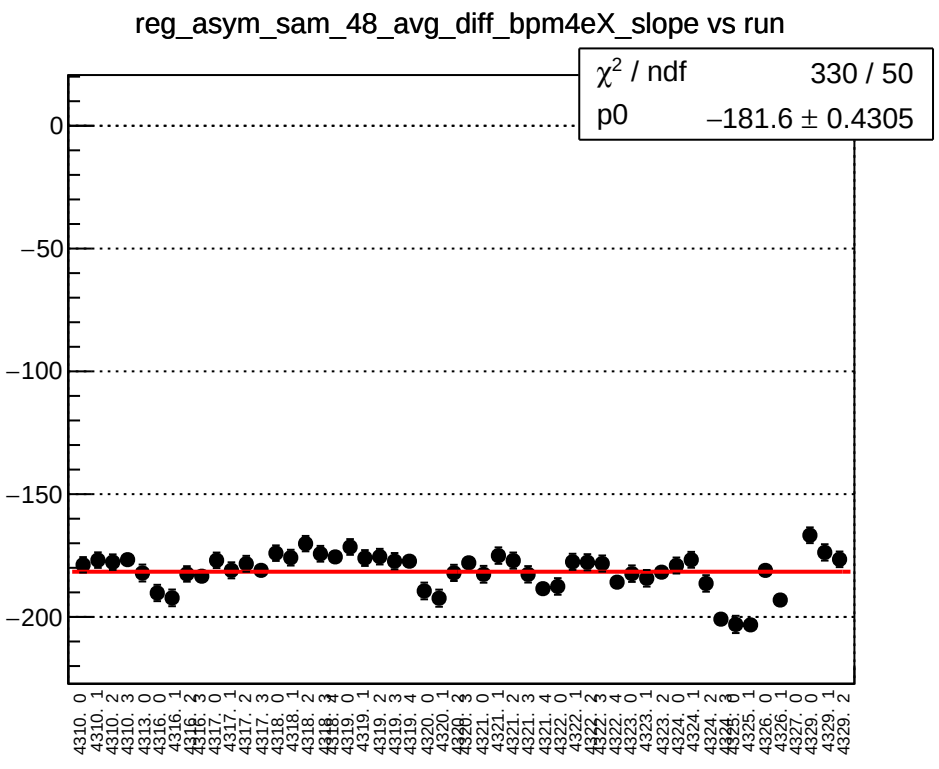
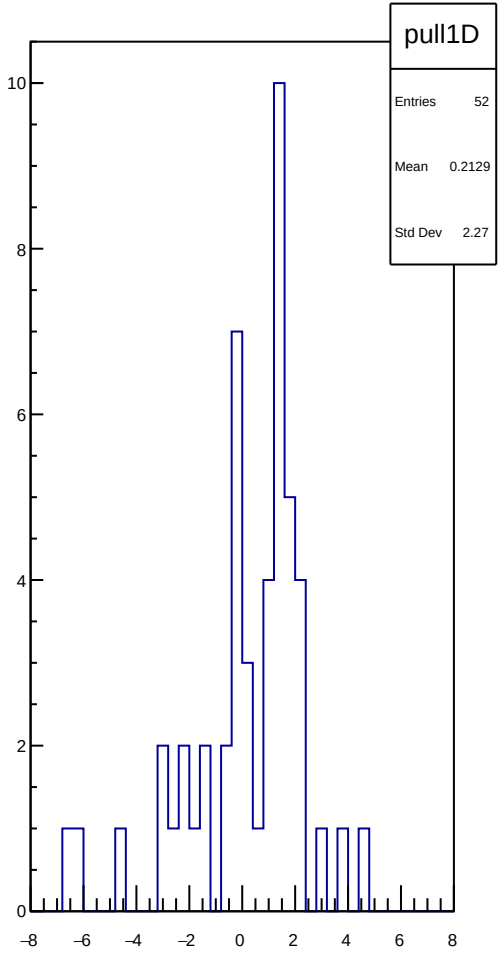
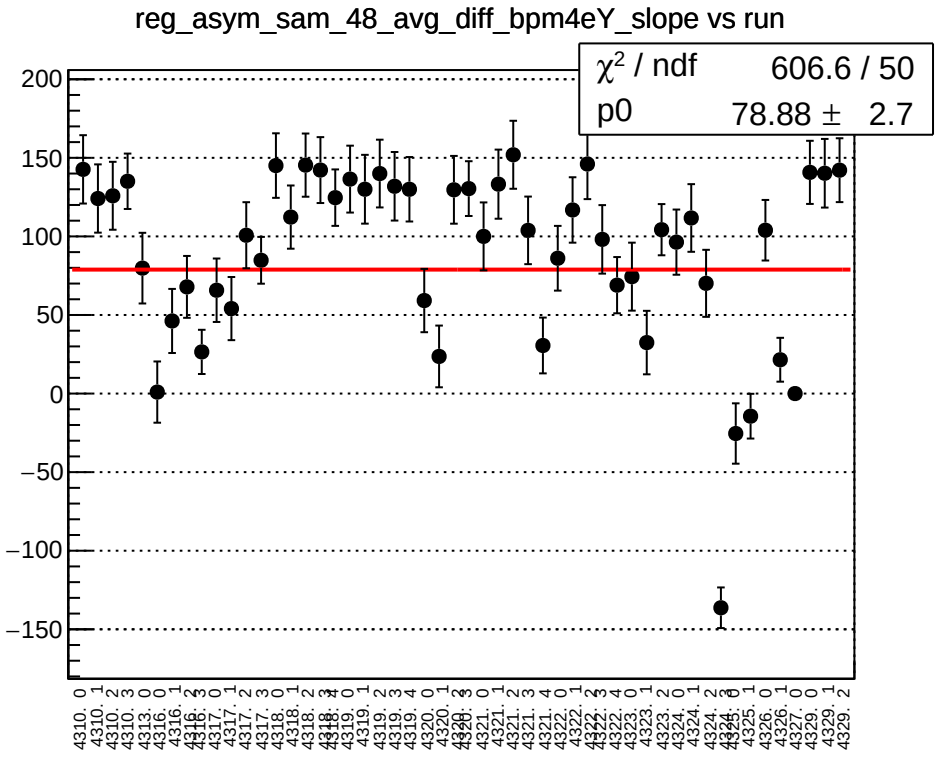
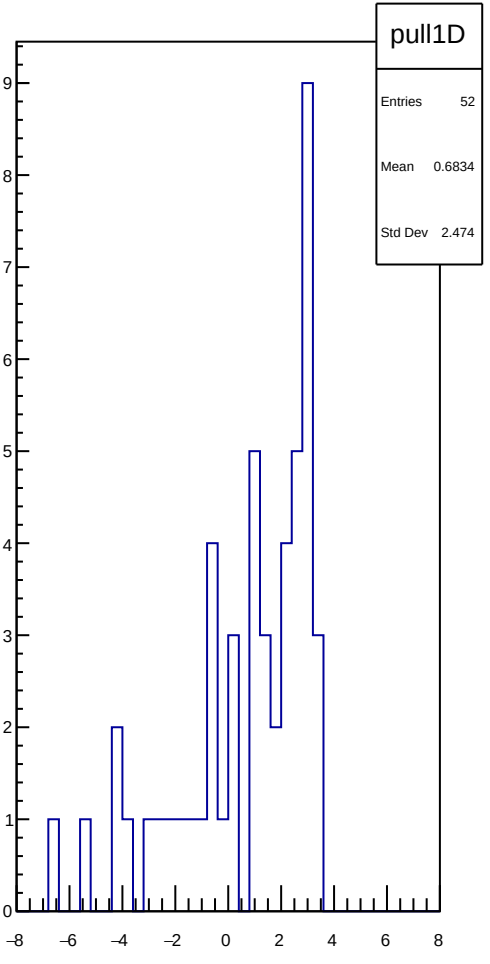
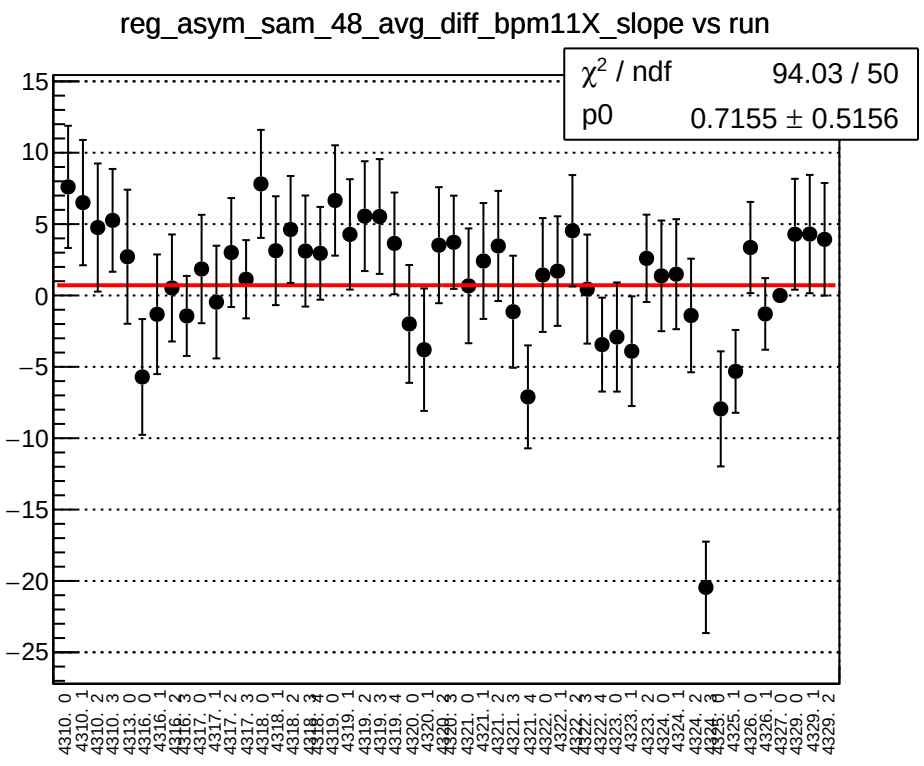
0
2
4
6
8

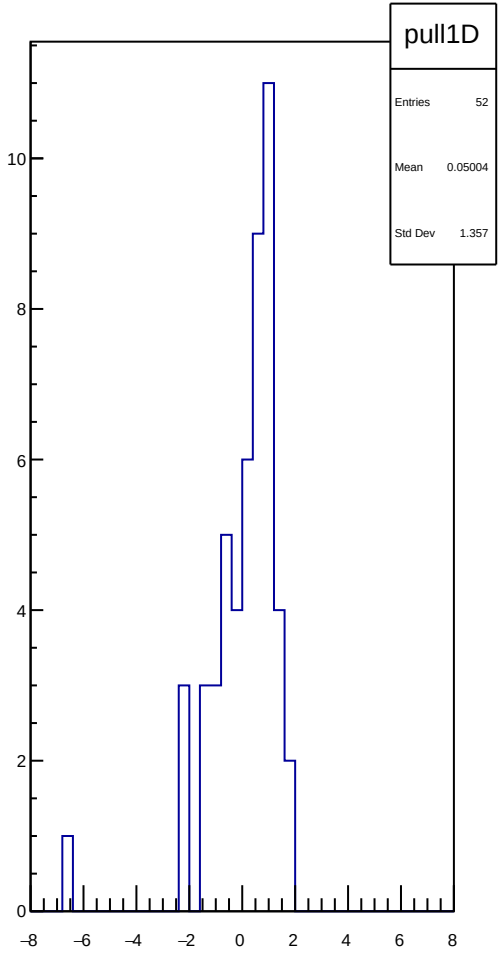

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 330 / 50
p0 −181.6 ± 0.4305
0
−50
−100
−150
−200

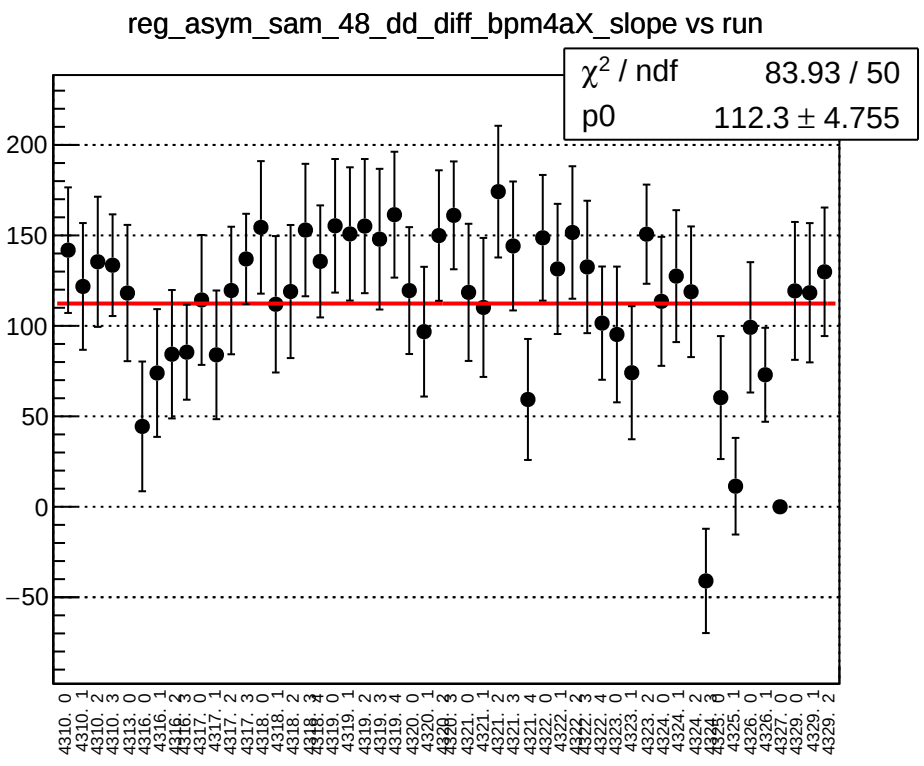

pull1D
Entries 52
Mean 0.2129
Std Dev 2.27
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

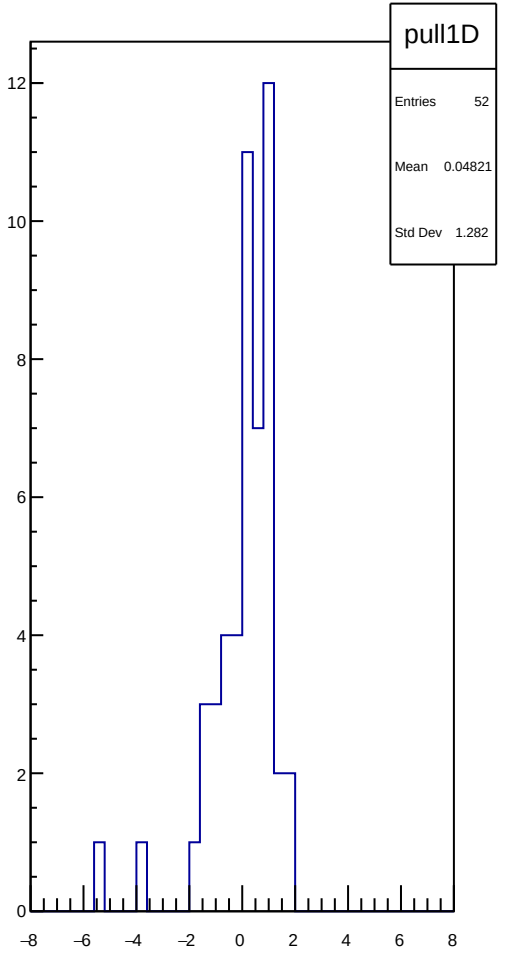

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 606.6 / 50
p0 78.88 ± 2.7
200
150
100
50
0
−50
−100
−150

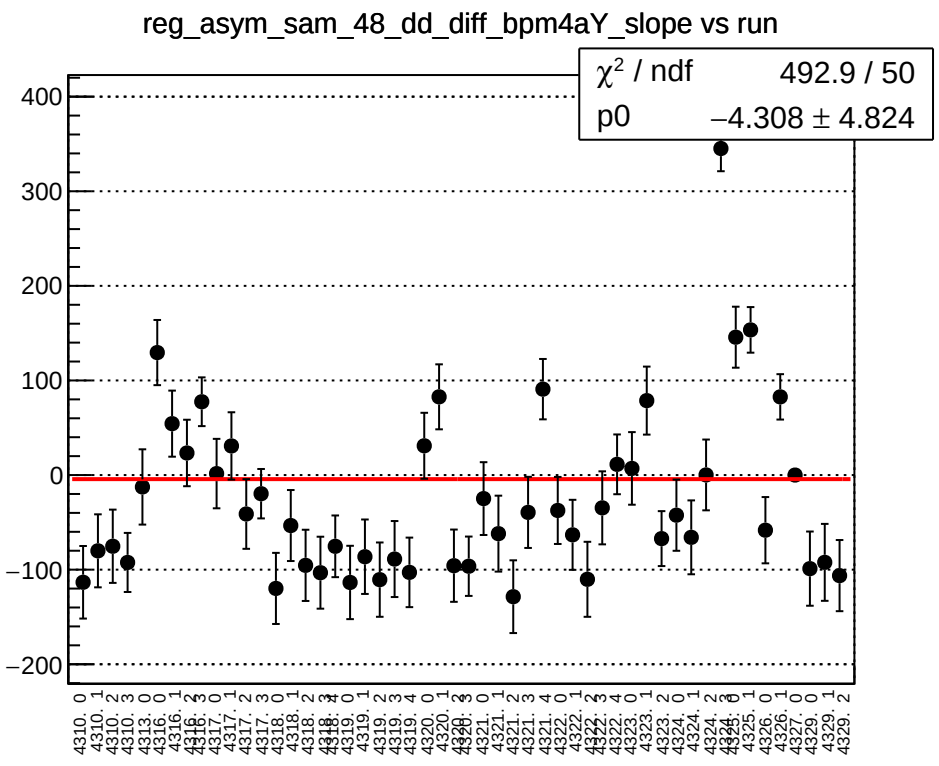

pull1D
Entries 52
Mean 0.6834
Std Dev 2.474
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

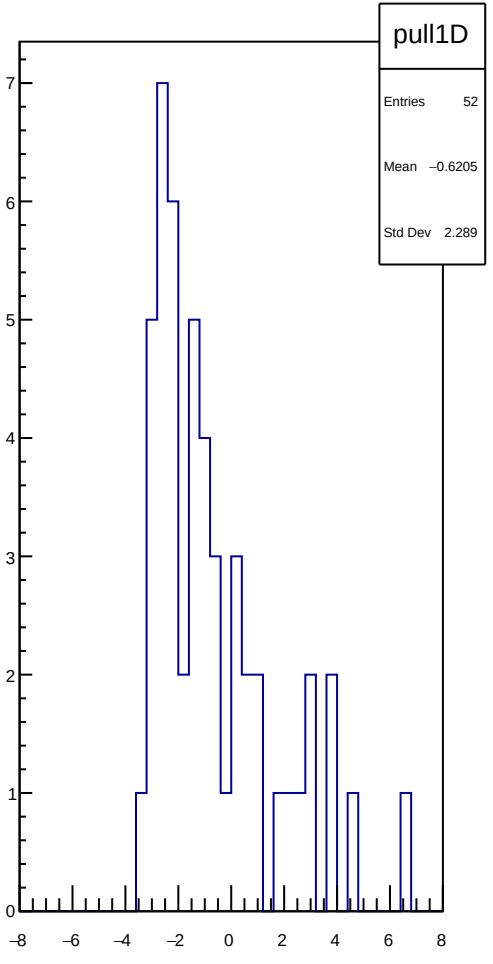

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 94.03 / 50
p0 0.7155 ± 0.5156
15
10
5
0
−5
−10
−15
−20
−25
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

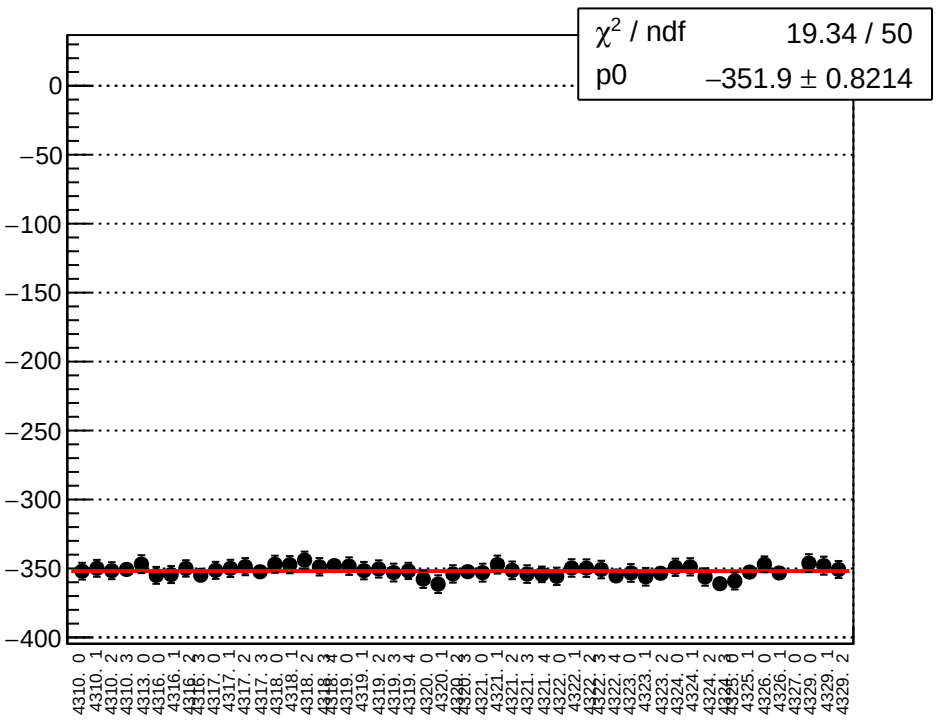

pull1D
Entries 52
Mean 0.05004
Std Dev 1.357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

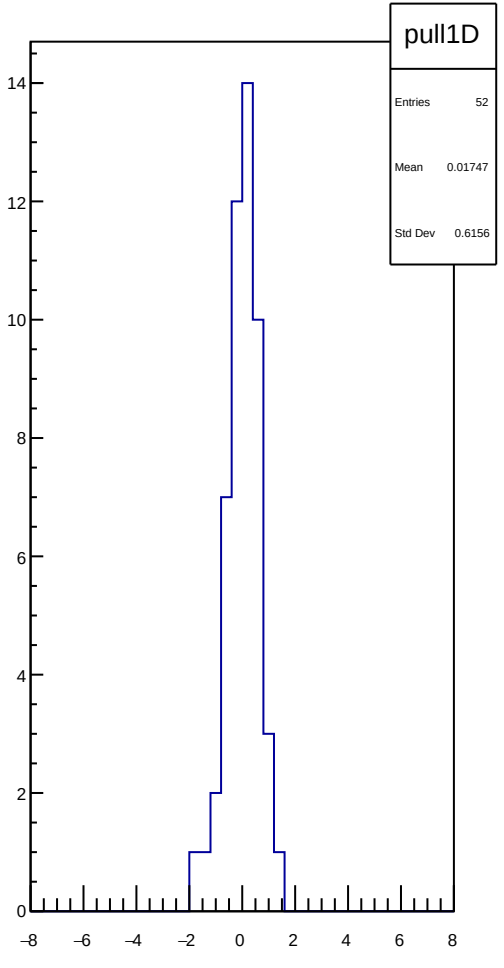

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 83.93 / 50
p0 112.3 ± 4.755
200
150
100
50
0
−50

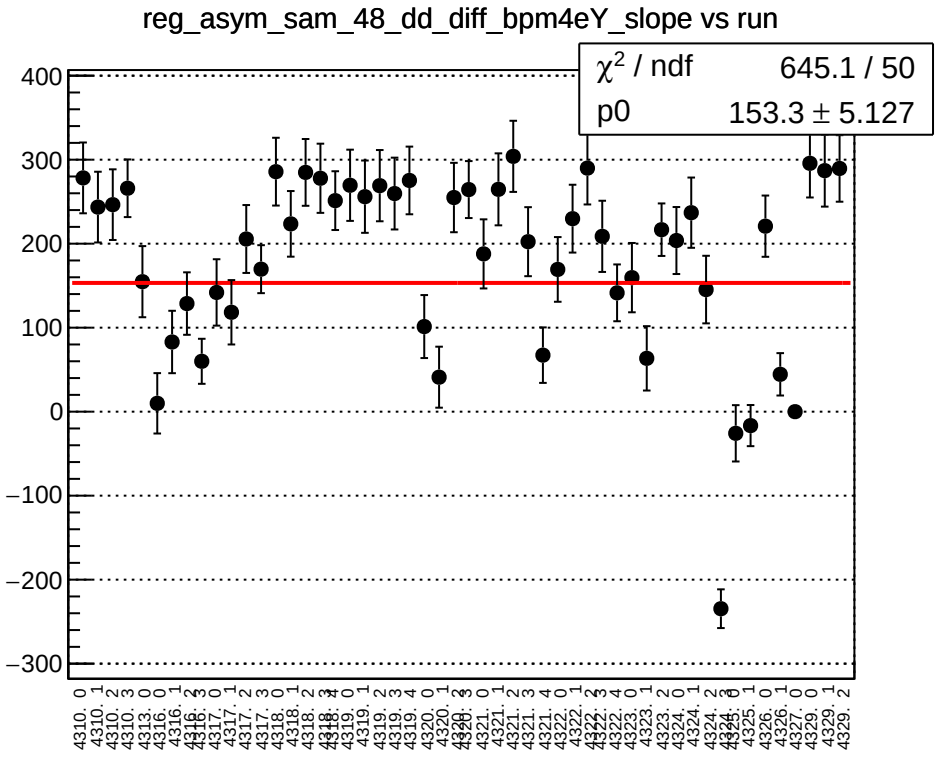

pull1D
Entries 52
Mean 0.04821
Std Dev 1.282
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

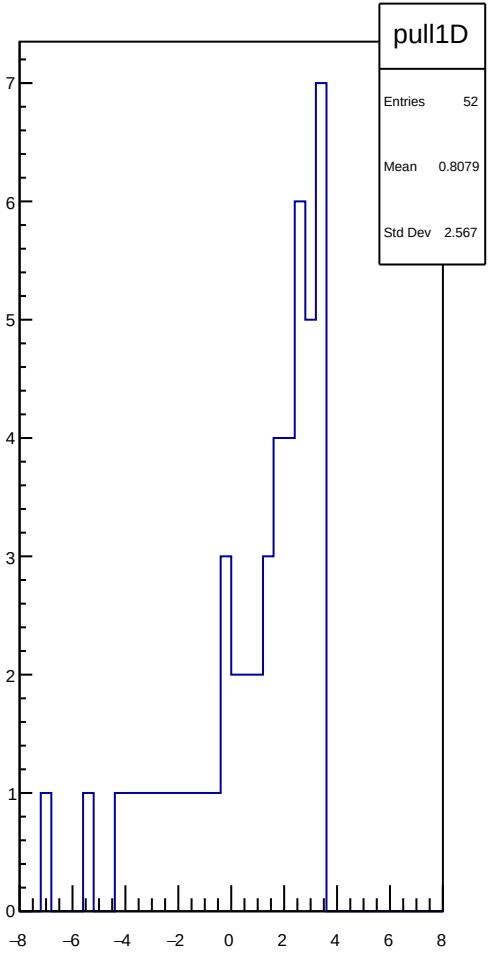

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 492.9 / 50
p0 −4.308 ± 4.824
400
300
200
100
0
−100
−200

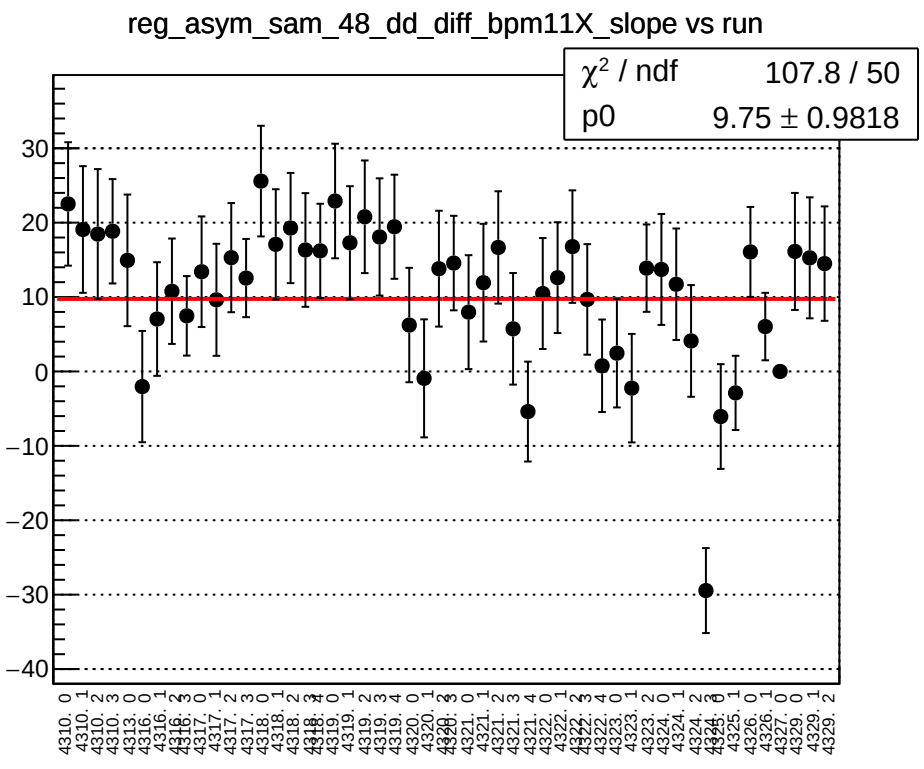

pull1D
Entries 52
Mean −0.6205
Std Dev 2.289
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

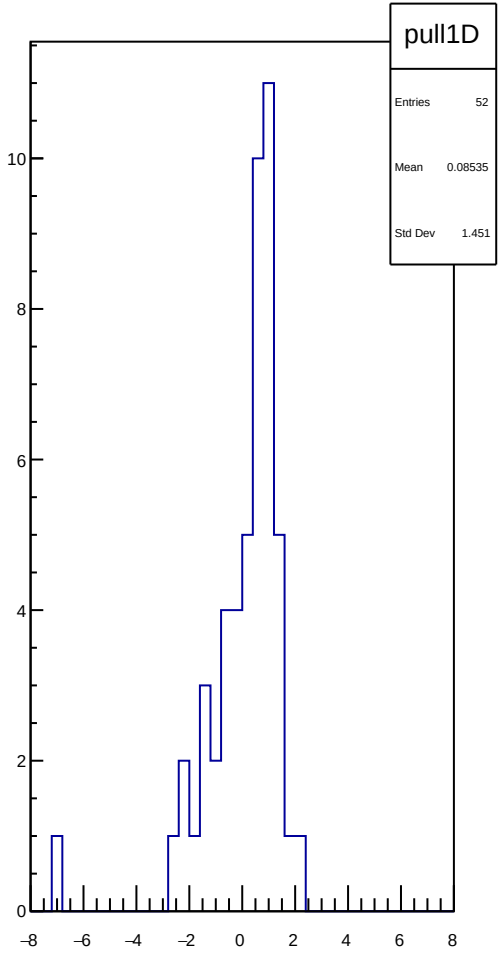

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.34 / 50
p0 −351.9 ± 0.8214
0
−50
−100
−150
−200
−250
−300
−350
−400

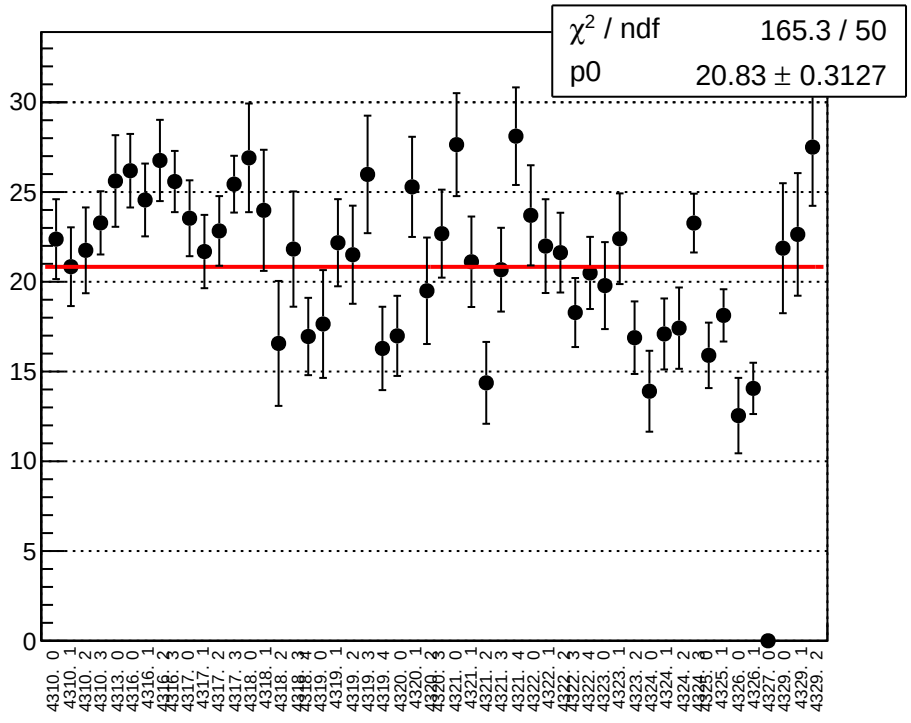

pull1D
Entries 52
Mean 0.01747
Std Dev 0.6156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

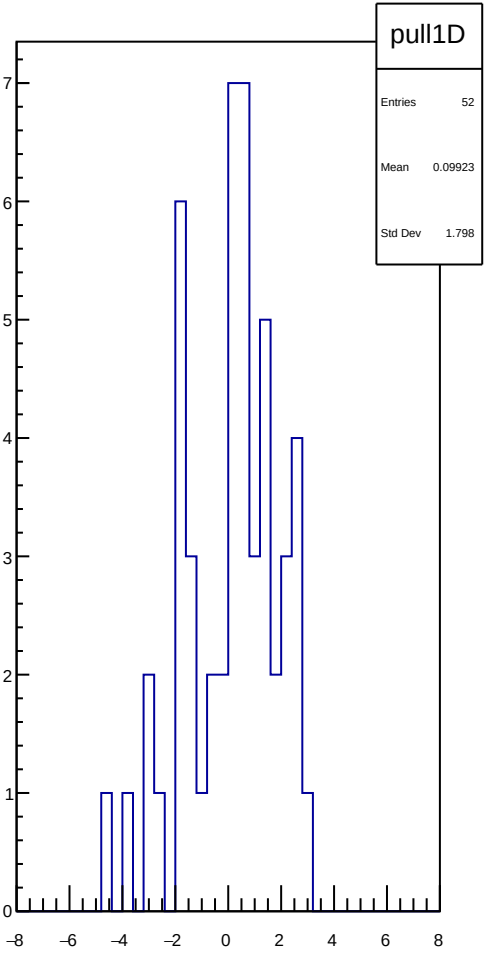

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 645.1 / 50
p0 153.3 ± 5.127
400
300
200
100
0
−100
−200
−300

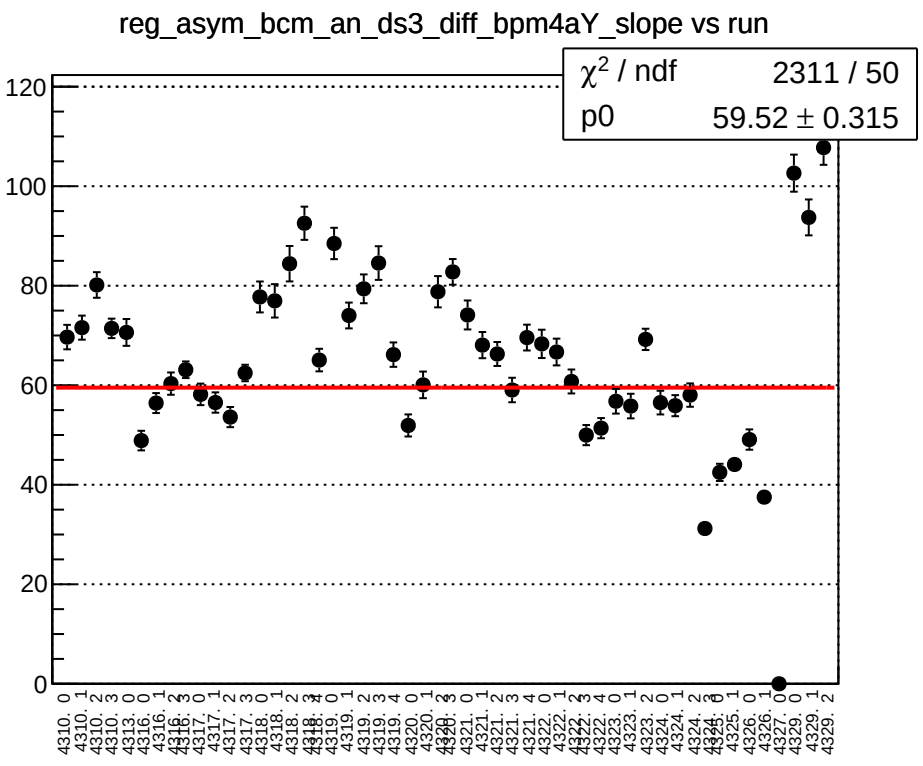

pull1D
Entries 52
Mean 0.8079
Std Dev 2.567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

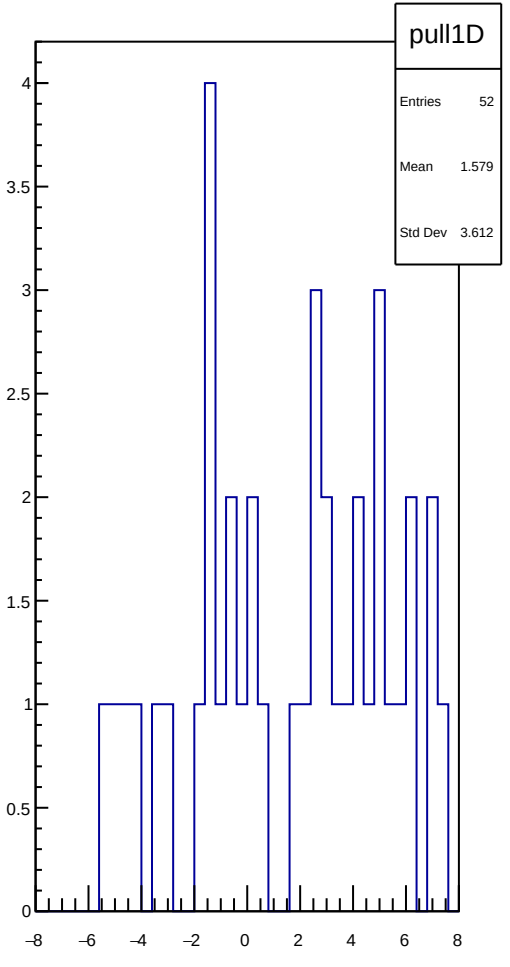

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 107.8 / 50
p0 9.75 ± 0.9818
30
20
10
0
−10
−20
−30
−40

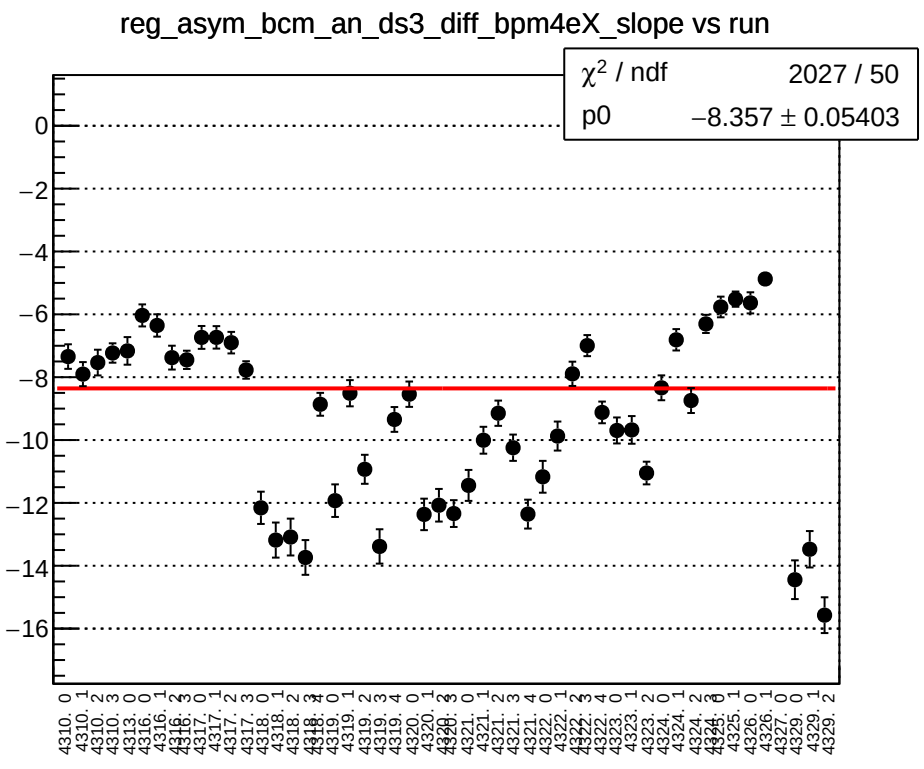

pull1D
Entries 52
Mean 0.08535
Std Dev 1.451
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

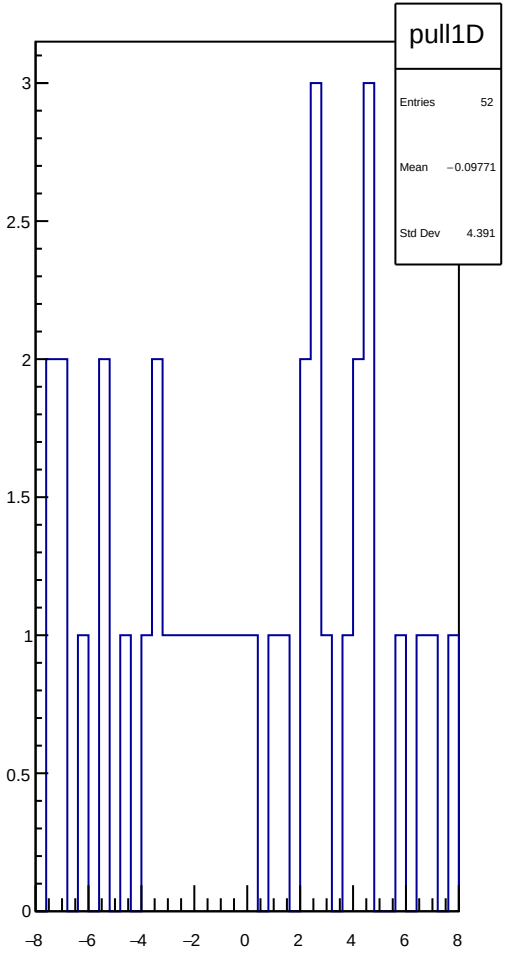

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 165.3 / 50
p0 20.83 ± 0.3127

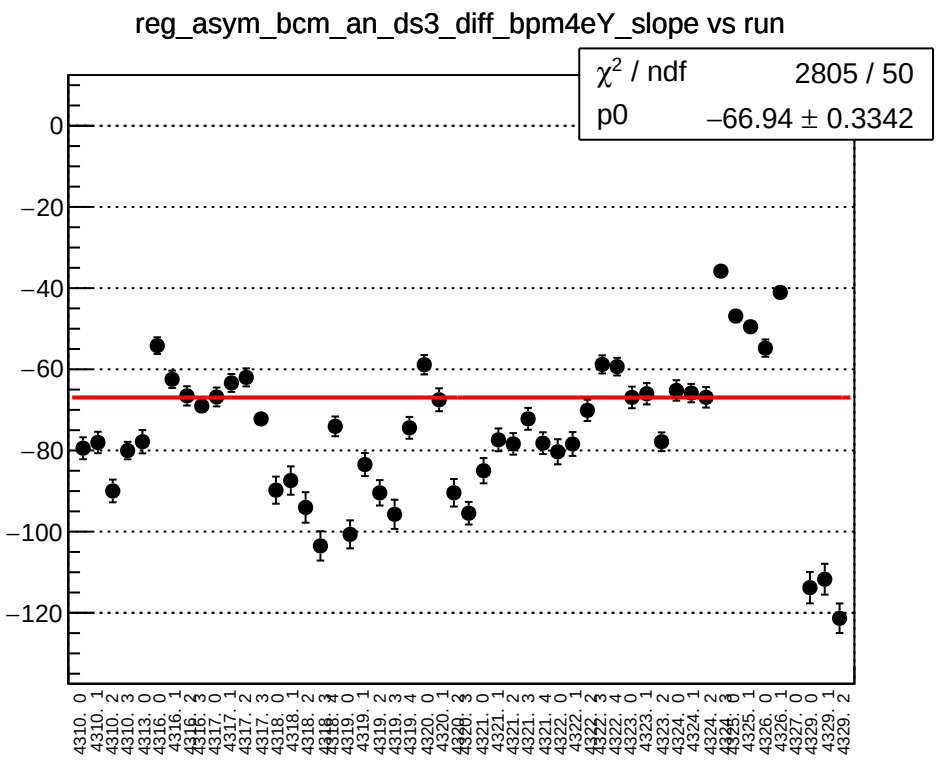

pull1D
Entries 52
Mean 0.09923
Std Dev 1.798

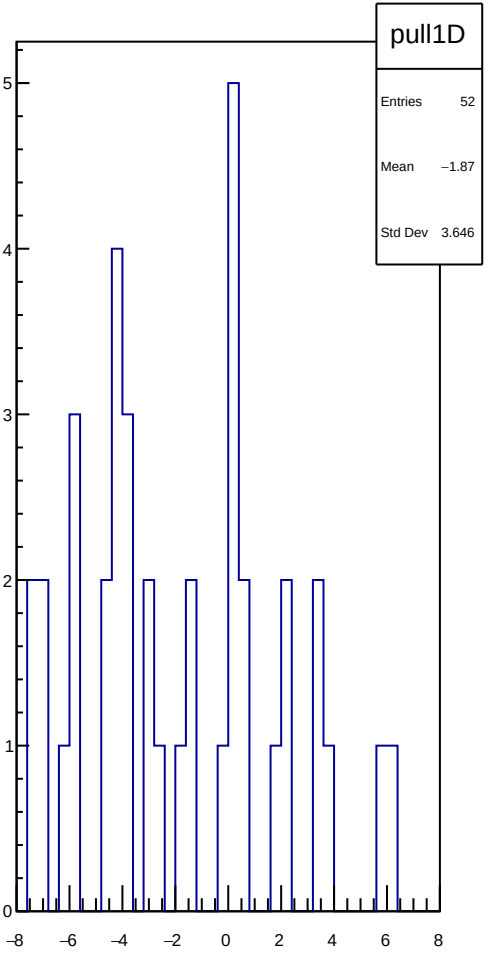

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 2311 / 50
p0 59.52 ± 0.315
120
100
80
60
40
20
0

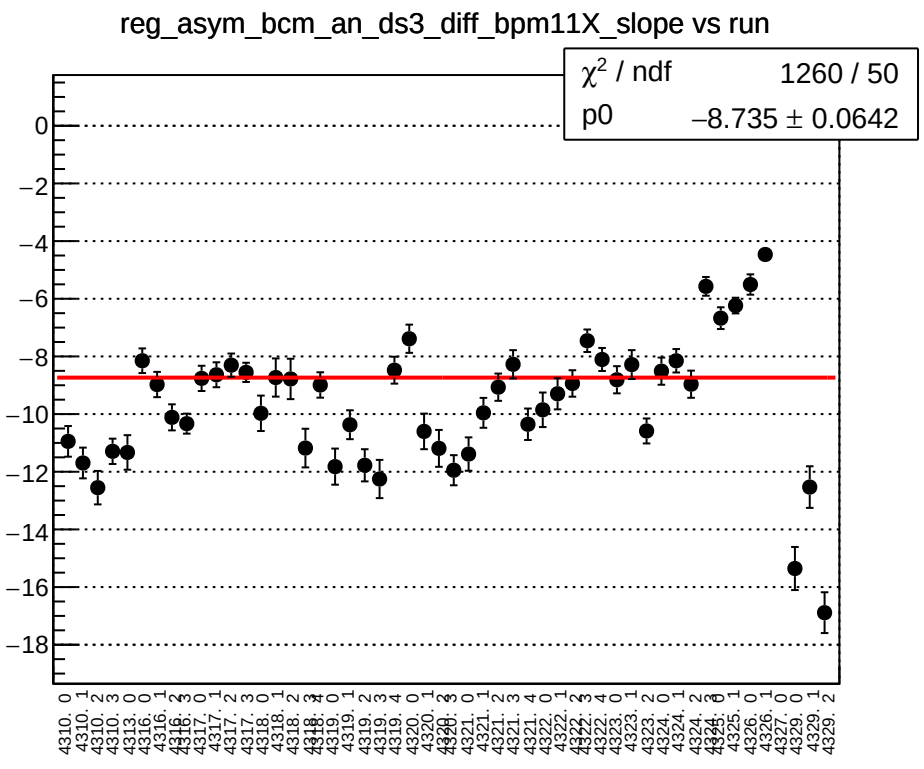

pull1D
Entries 52
Mean 1.579
Std Dev 3.612
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

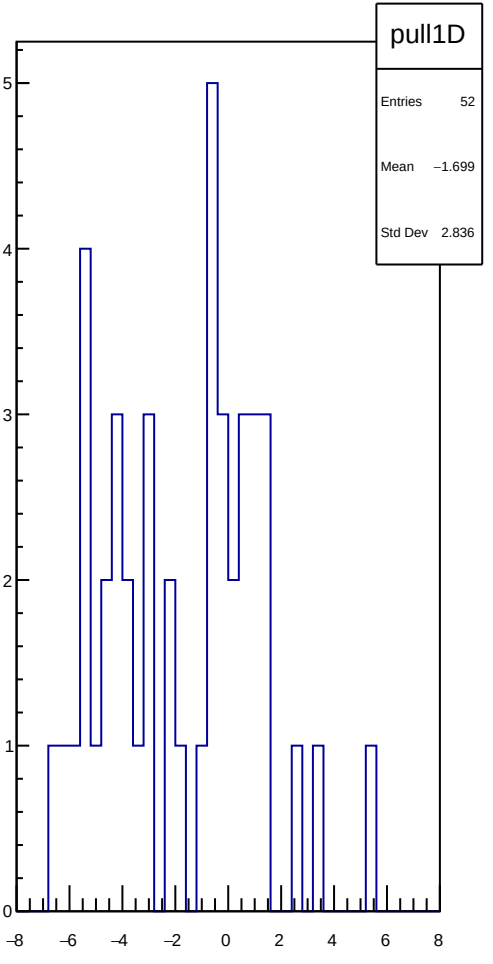

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2027 / 50
p0 −8.357 ± 0.05403
0
−2
−4
−6
−8
−10
−12
−14
−16

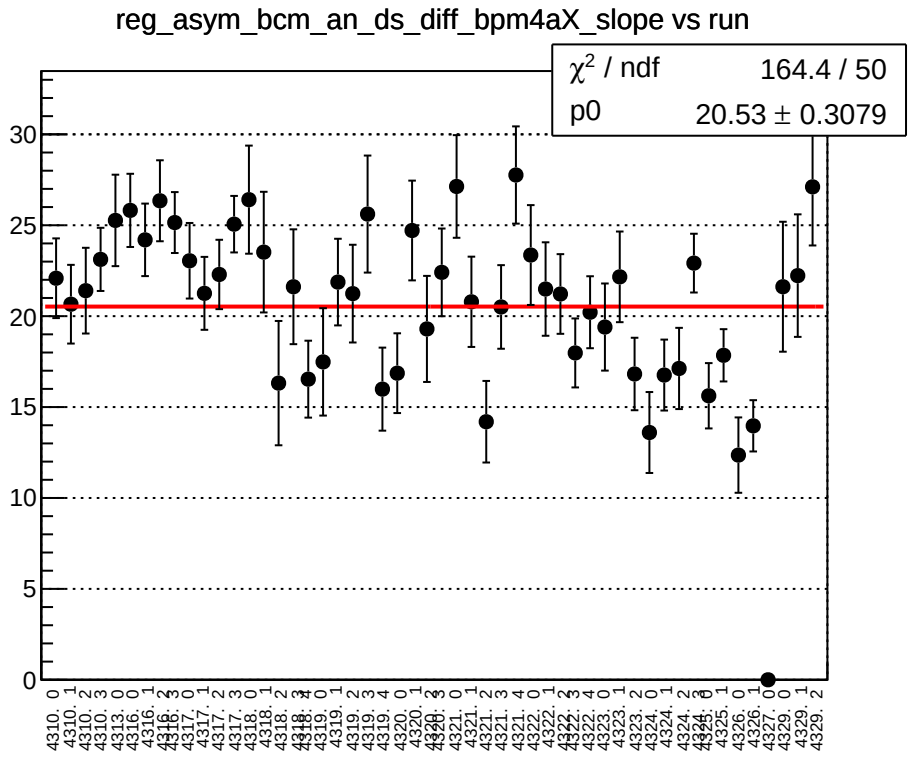

pull1D
Entries 52
Mean −0.09771
Std Dev 4.391
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

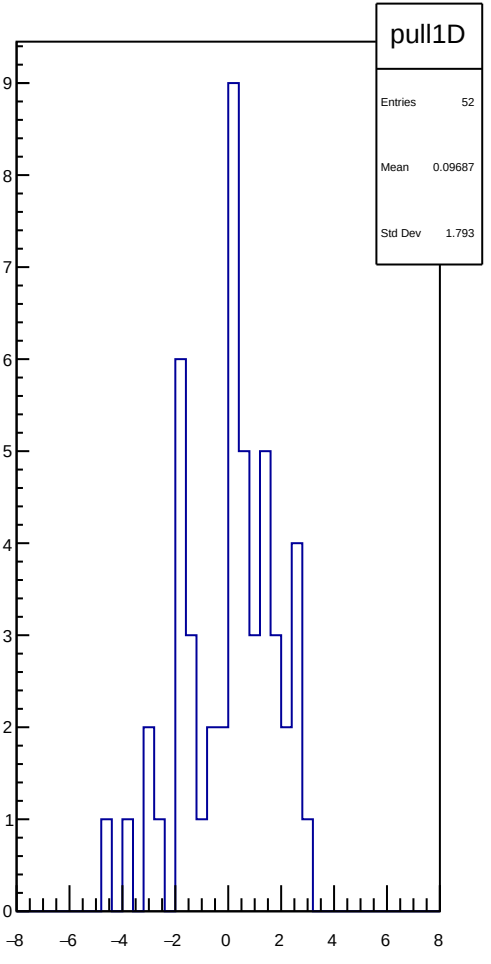

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 2805 / 50
p0 −66.94 ± 0.3342
0
−20
−40
−60
−80
−100
−120
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

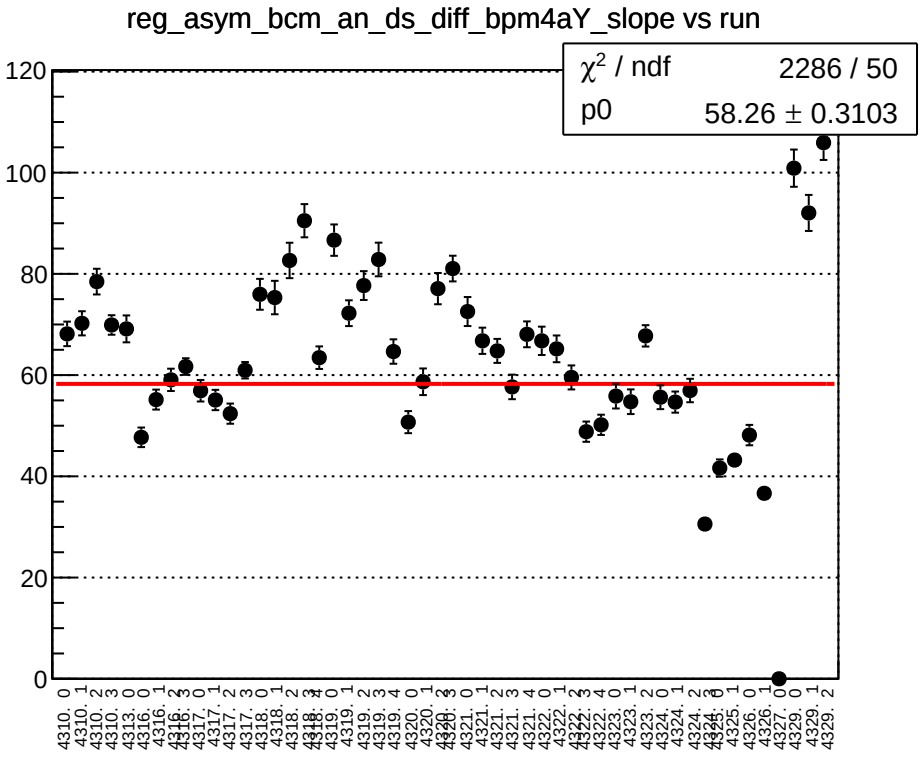

pull1D
Entries 52
Mean −1.87
Std Dev 3.646
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

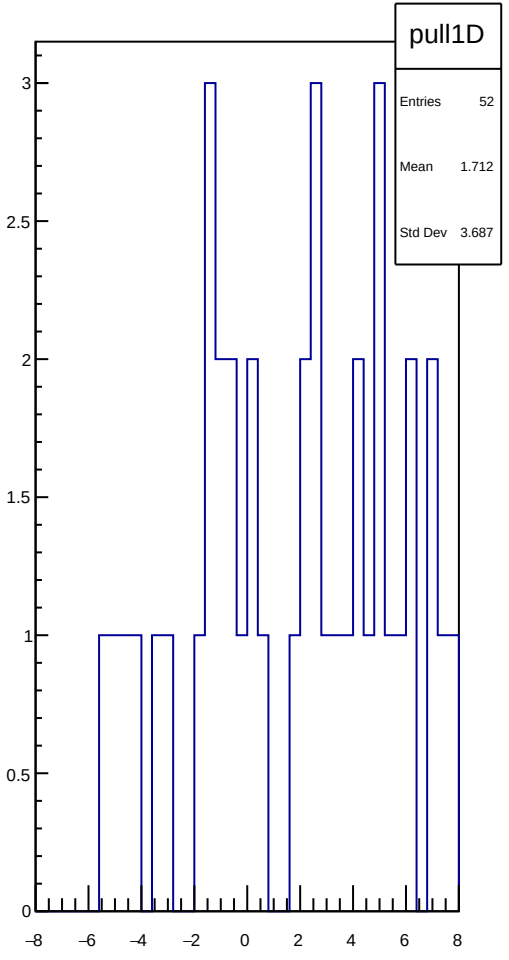

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 1260 / 50
p0 −8.735 ± 0.0642
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

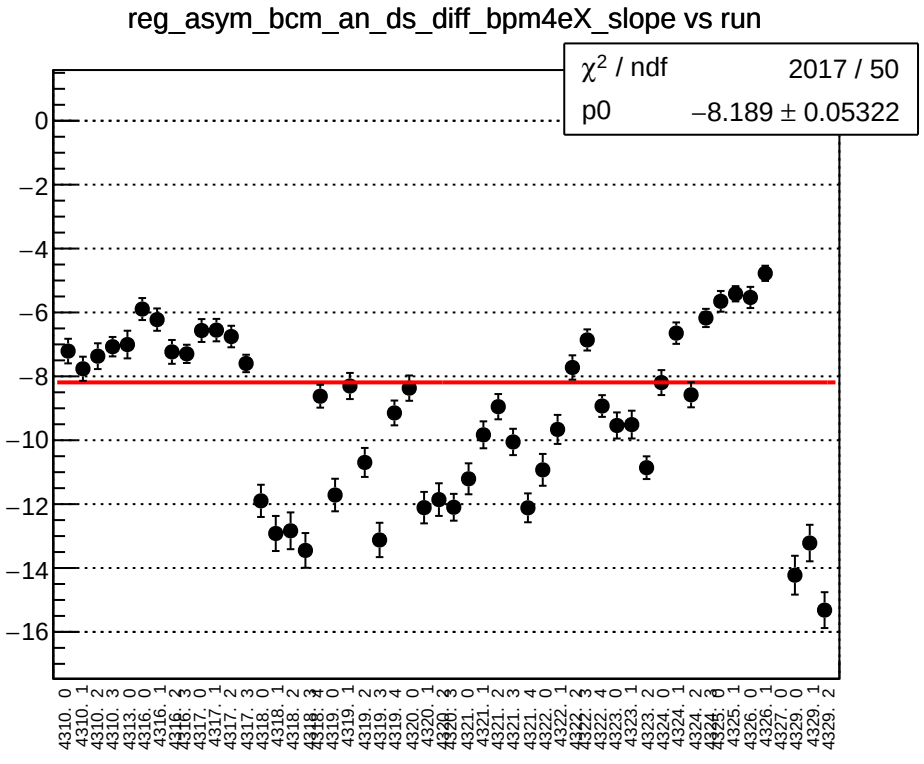

pull1D
Entries 52
Mean −1.699
Std Dev 2.836
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

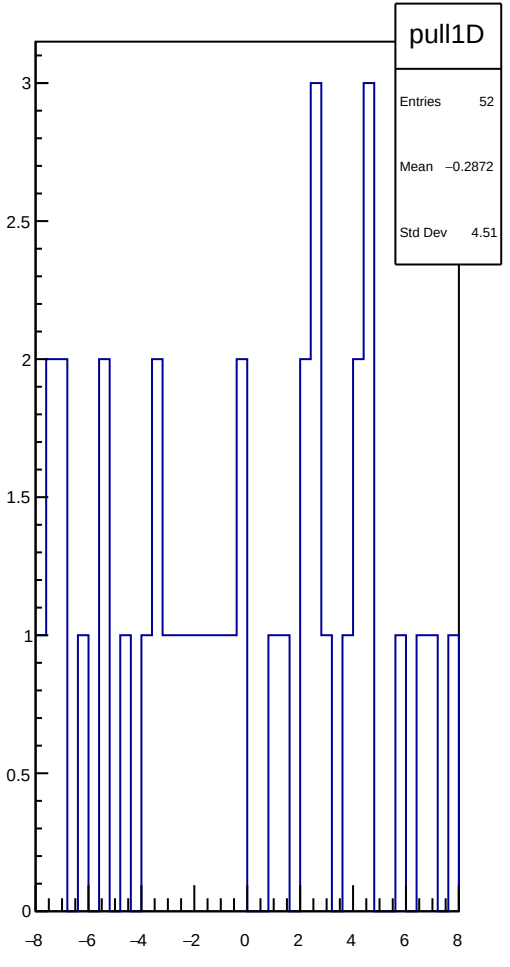

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 164.4 / 50
p0 20.53 ± 0.3079

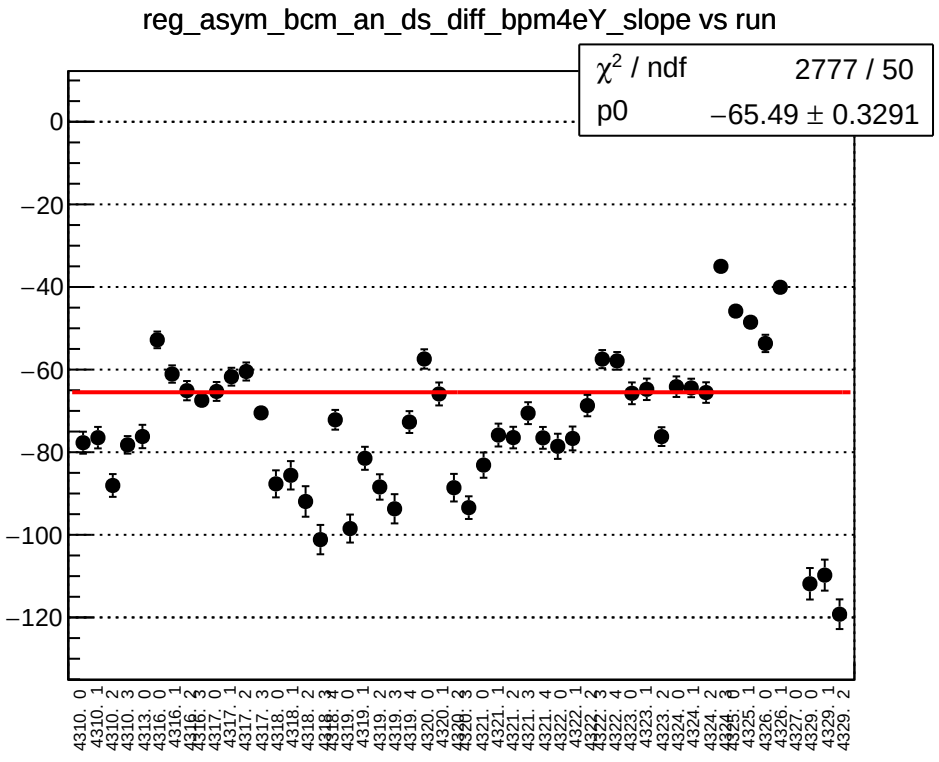

pull1D
Entries 52
Mean 0.09687
Std Dev 1.793

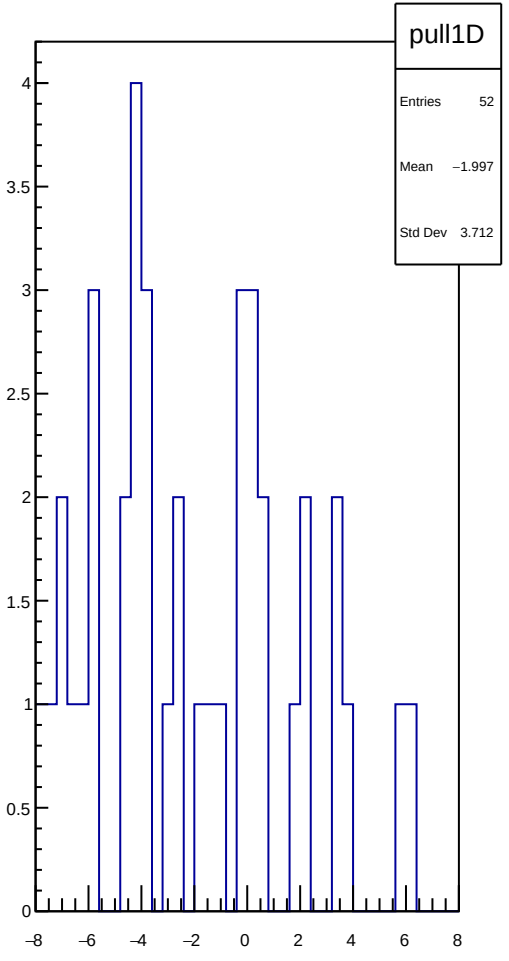

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 2286 / 50
p0 58.26 ± 0.3103
120
100
80
60
40
20
0

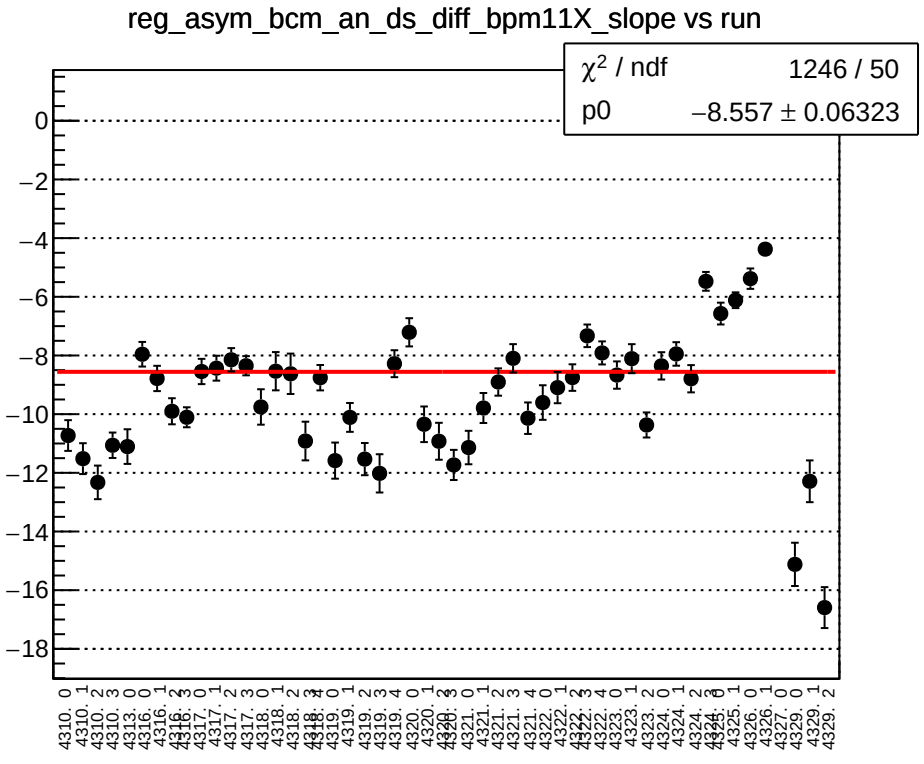

pull1D
Entries 52
Mean 1.712
Std Dev 3.687
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

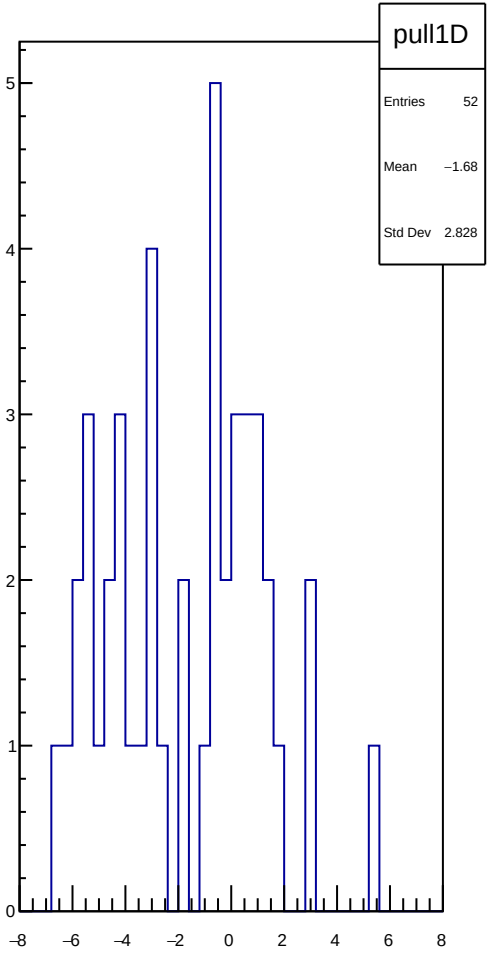

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2017 / 50
p0 −8.189 ± 0.05322
0
−2
−4
−6
−8
−10
−12
−14
−16

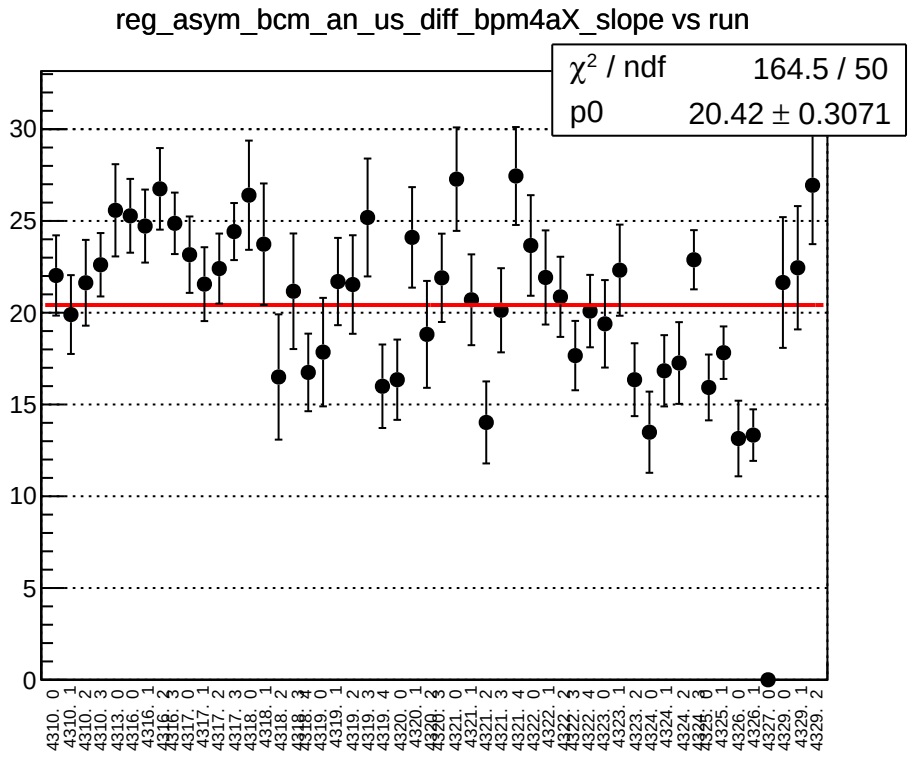

pull1D
Entries 52
Mean −0.2872
Std Dev 4.51
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

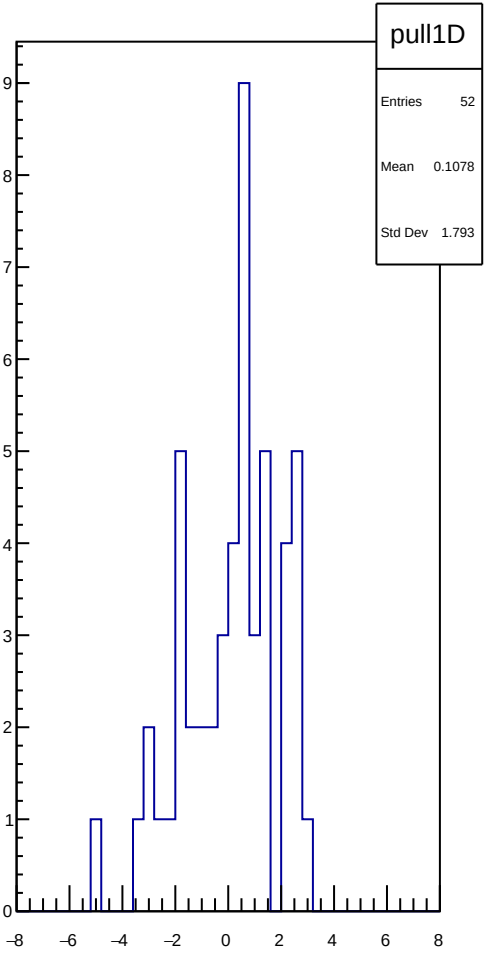

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 2777 / 50
p0 −65.49 ± 0.3291
0
−20
−40
−60
−80
−100
−120
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

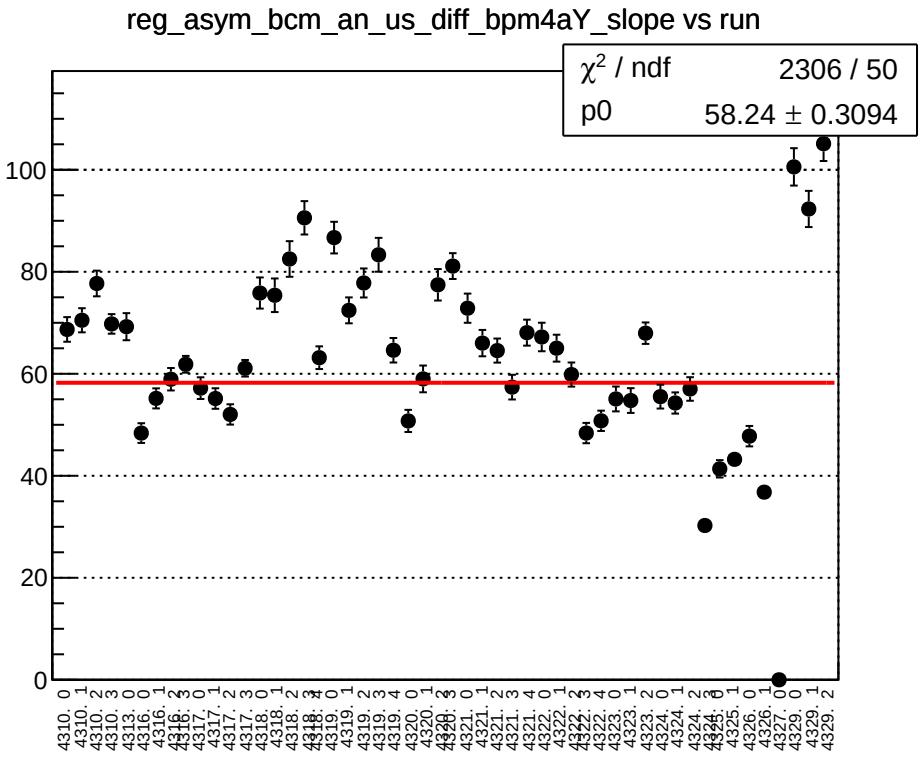

pull1D
Entries 52
Mean −1.997
Std Dev 3.712
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

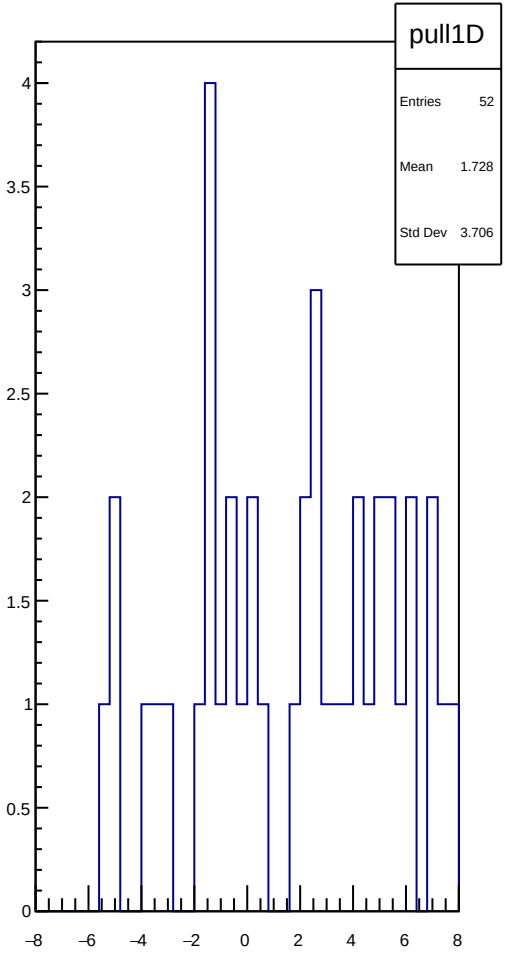

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 1246 / 50
p0 −8.557 ± 0.06323
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

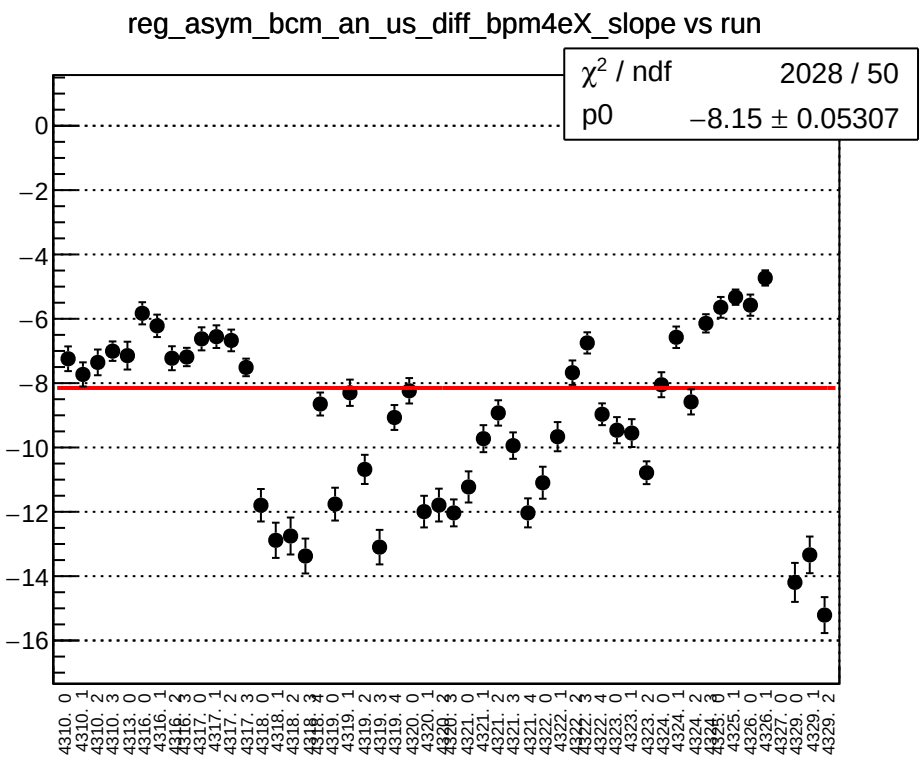

pull1D
Entries 52
Mean −1.68
Std Dev 2.828
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

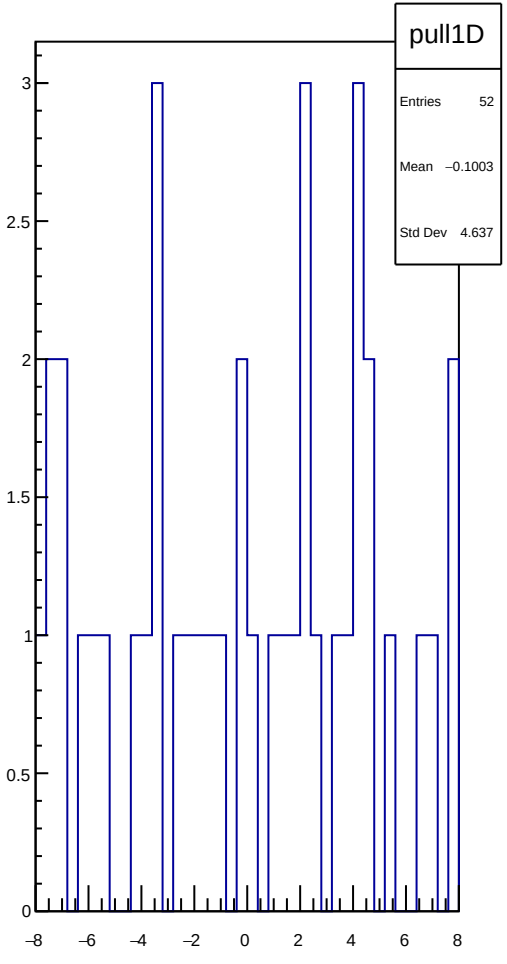

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 164.5 / 50
p0 20.42 ± 0.3071
30
25
20
15
10
5
0

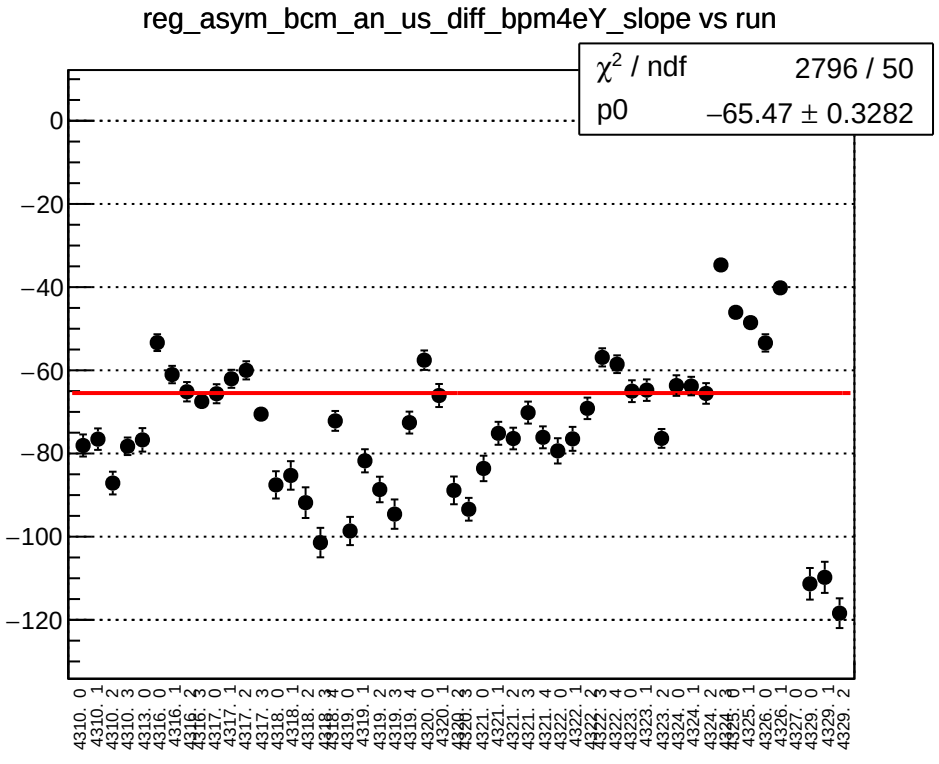

pull1D
Entries 52
Mean 0.1078
Std Dev 1.793
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

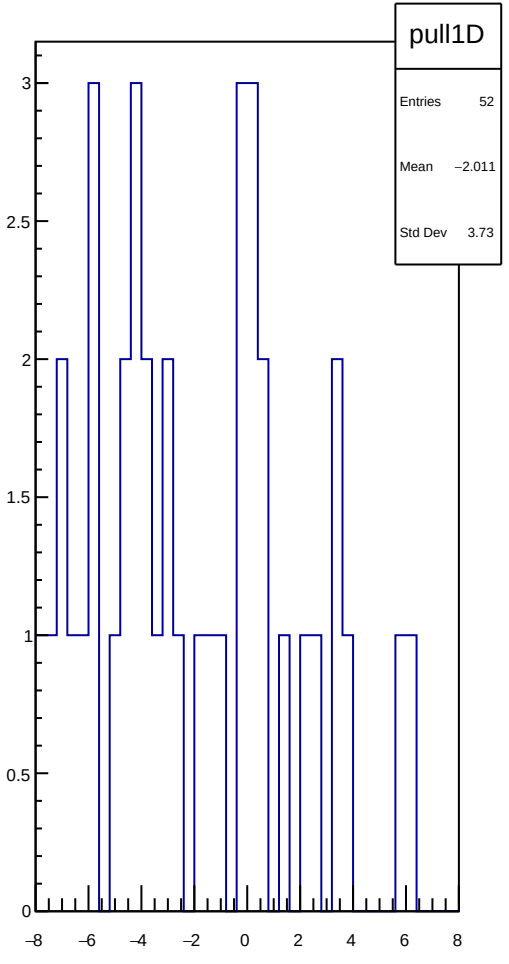

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 2306 / 50
p0 58.24 ± 0.3094
100
80
60
40
20
0

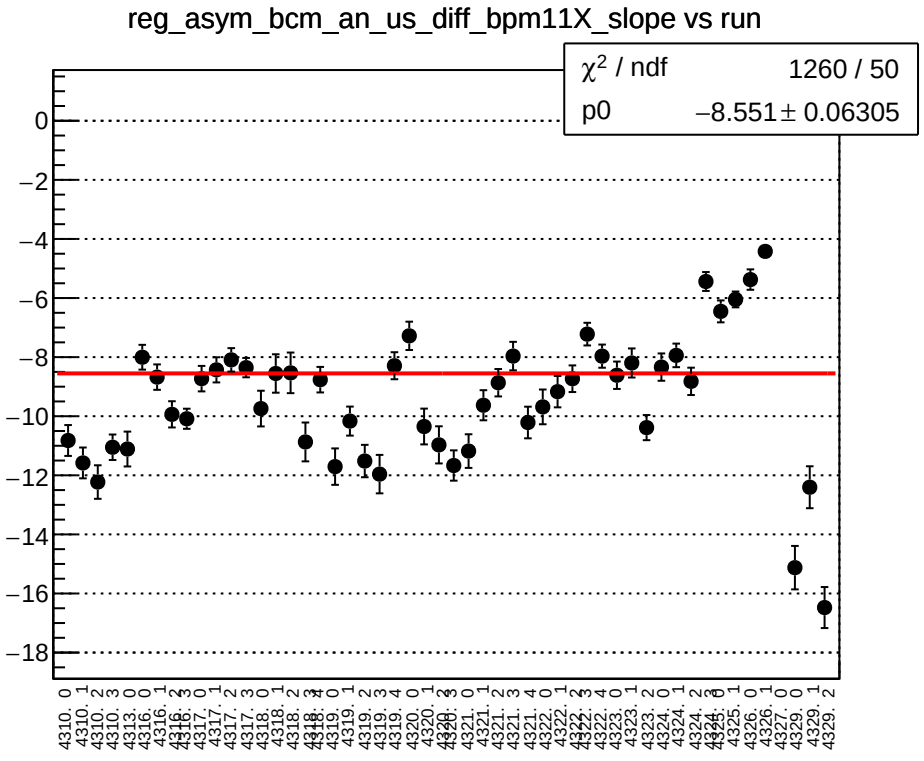

pull1D
Entries 52
Mean 1.728
Std Dev 3.706
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2028 / 50
p0 −8.15 ± 0.05307
0
−2
−4
−6
−8
−10
−12
−14
−16
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.1003
Std Dev 4.637
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 2796 / 50
p0 −65.47 ± 0.3282
0
−20
−40
−60
−80
−100
−120


pull1D
Entries 52
Mean −2.011
Std Dev 3.73
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 1260 / 50
p0 −8.551 ± 0.06305
0
−2
−4
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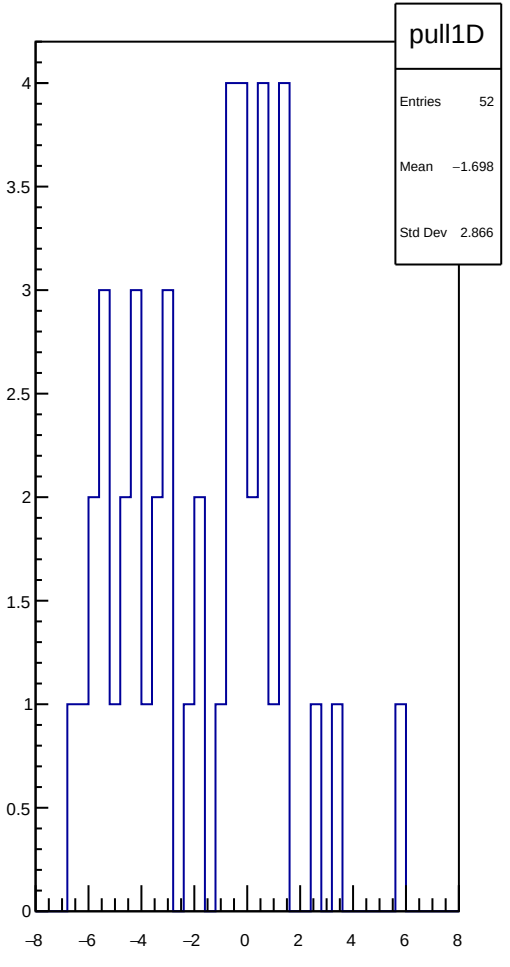
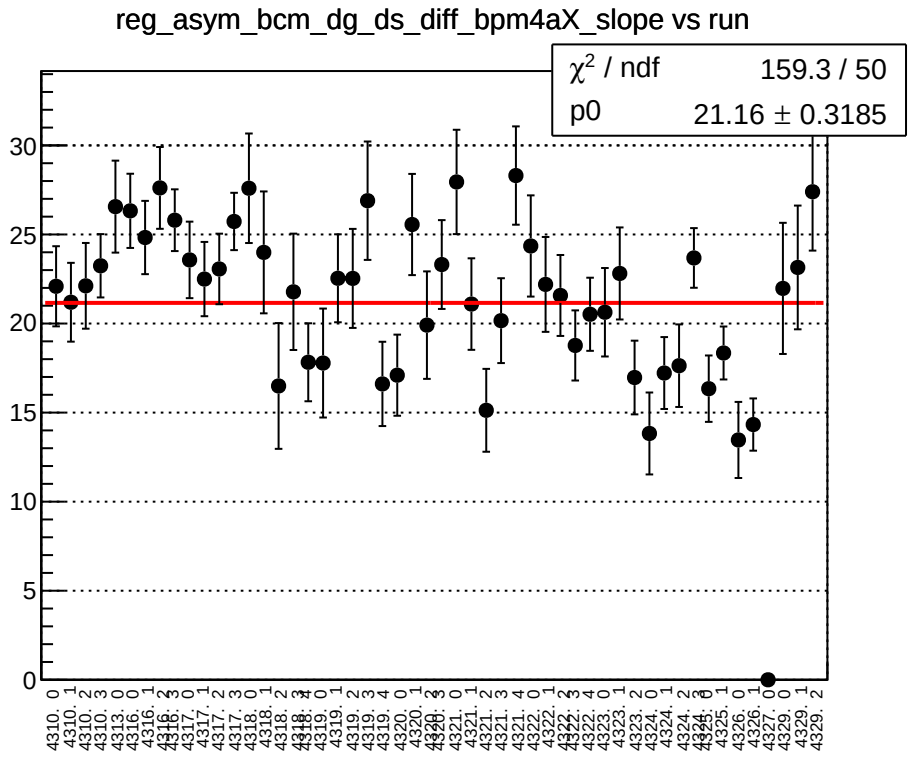
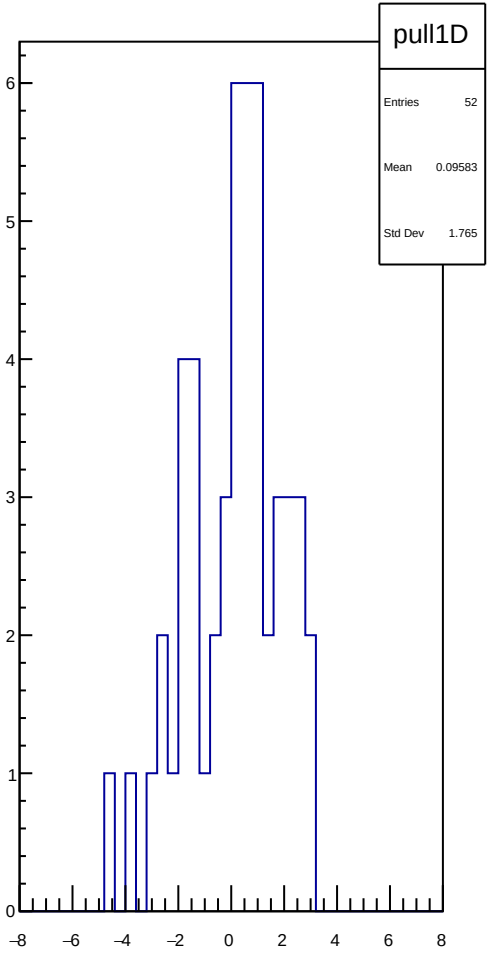
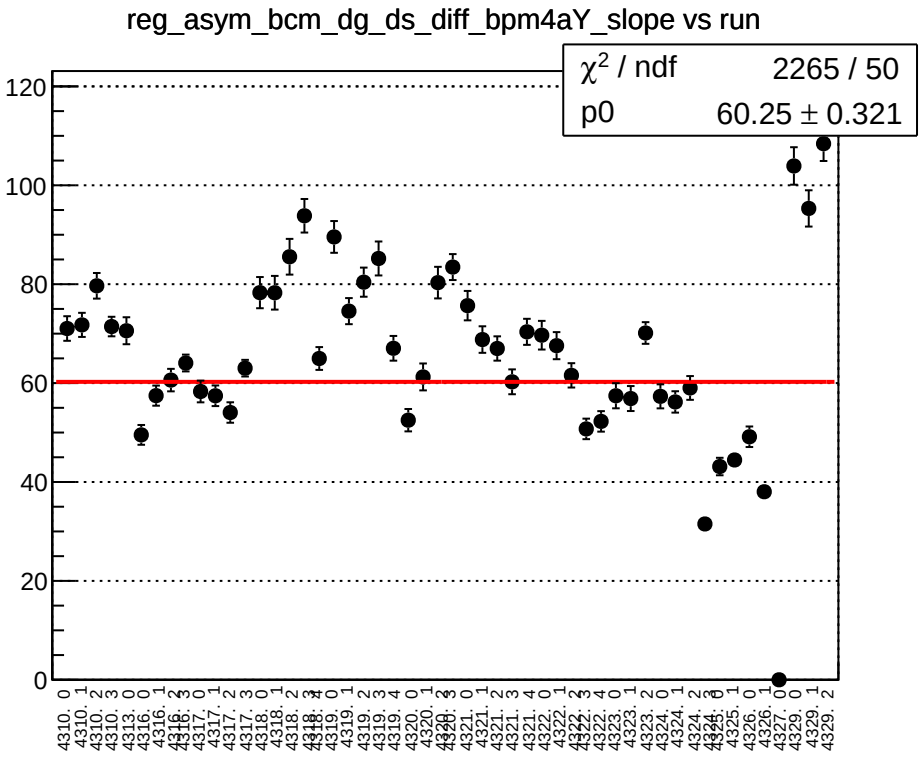
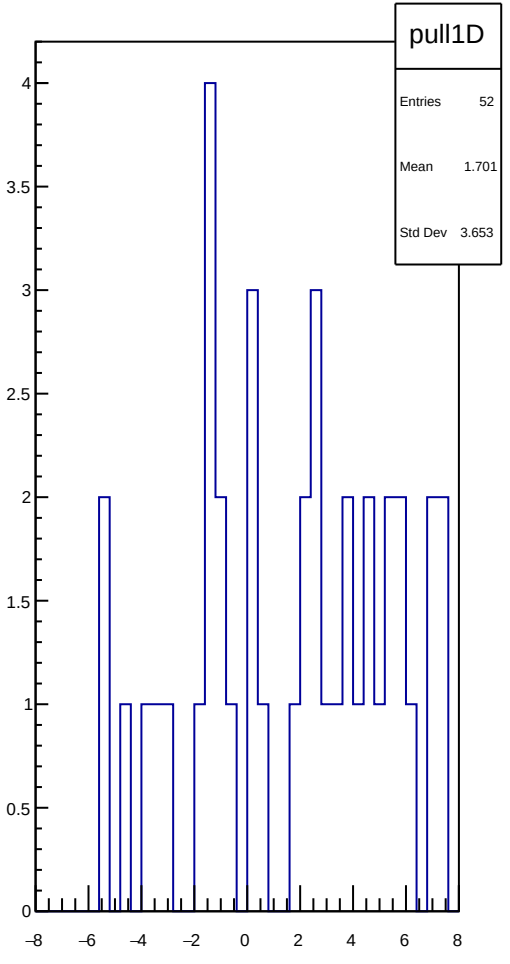
−8
−10
−12
−14
−16
−18

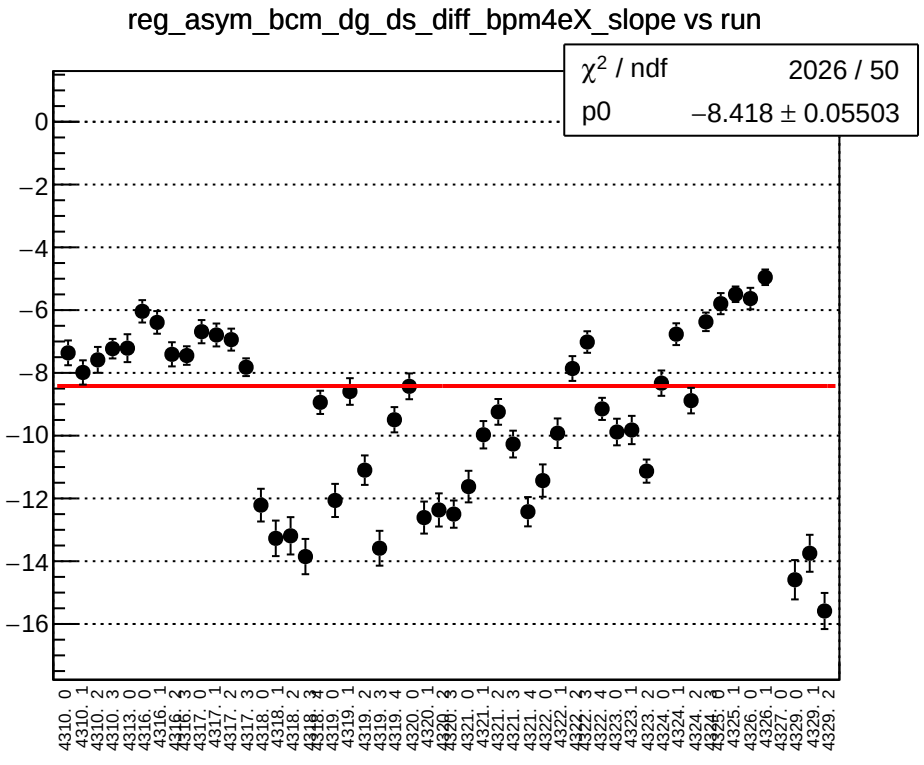

pull1D
Entries 52
Mean −1.698
Std Dev 2.866
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

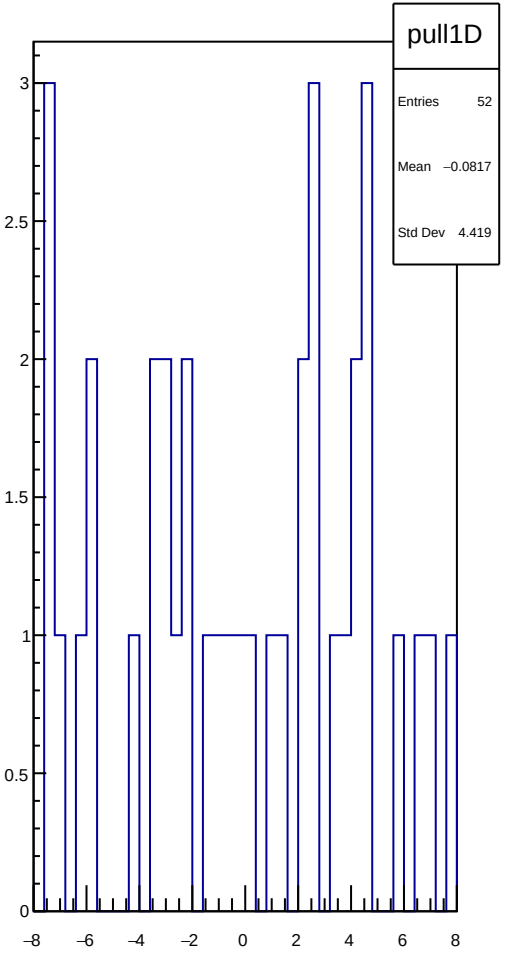

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 159.3 / 50
p0 21.16 ± 0.3185

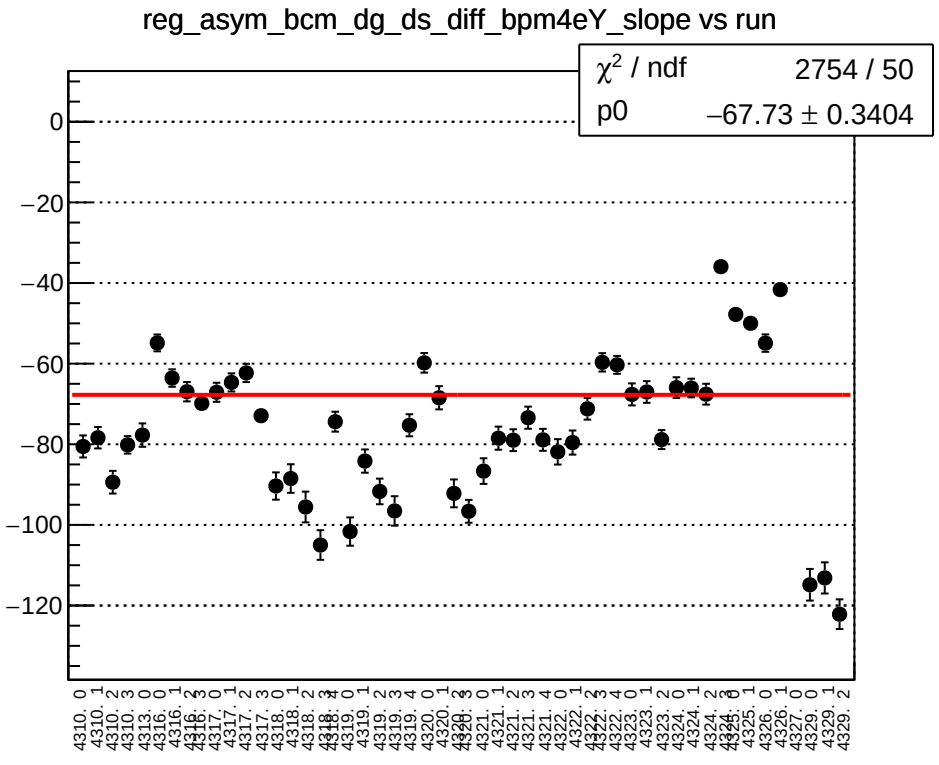

pull1D
Entries 52
Mean 0.09583
Std Dev 1.765


reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 2265 / 50
p0 60.25 ± 0.321


pull1D
Entries 52
Mean 1.701
Std Dev 3.653


reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2026 / 50
p0 −8.418 ± 0.05503
0
−2
−4
−6
−8
−10
−12
−14
−16


pull1D
Entries 52
Mean −0.0817
Std Dev 4.419
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 2754 / 50
p0 −67.73 ± 0.3404
0
−20
−40
−60
−80
−100
−120
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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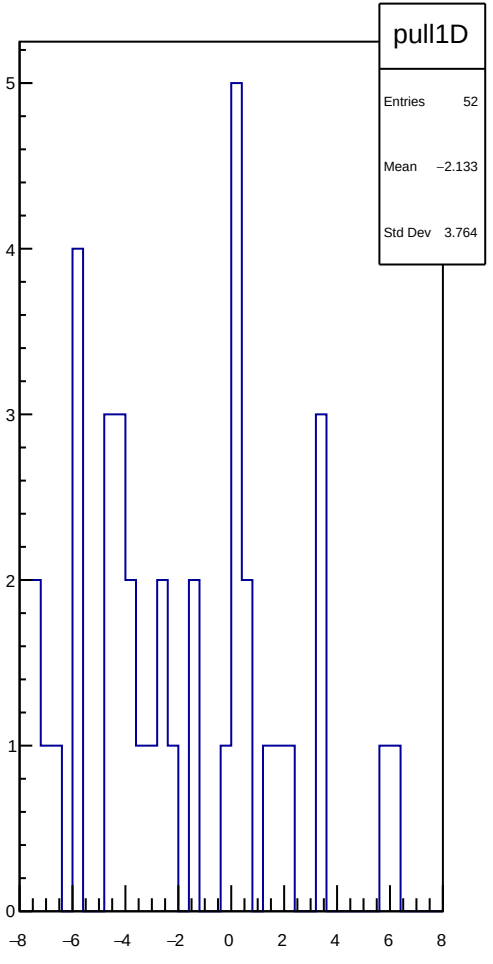
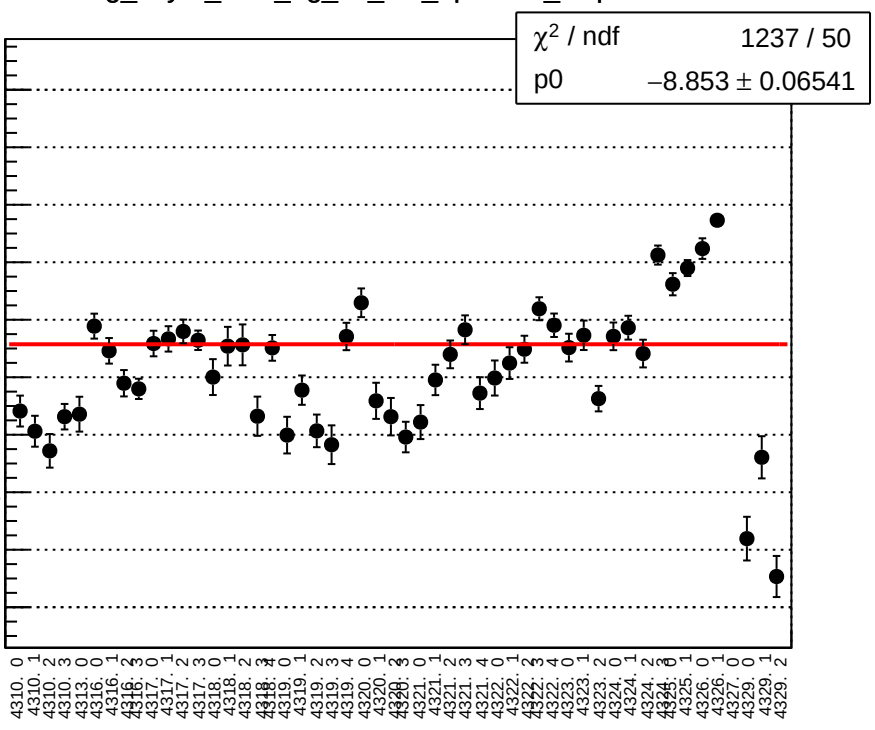
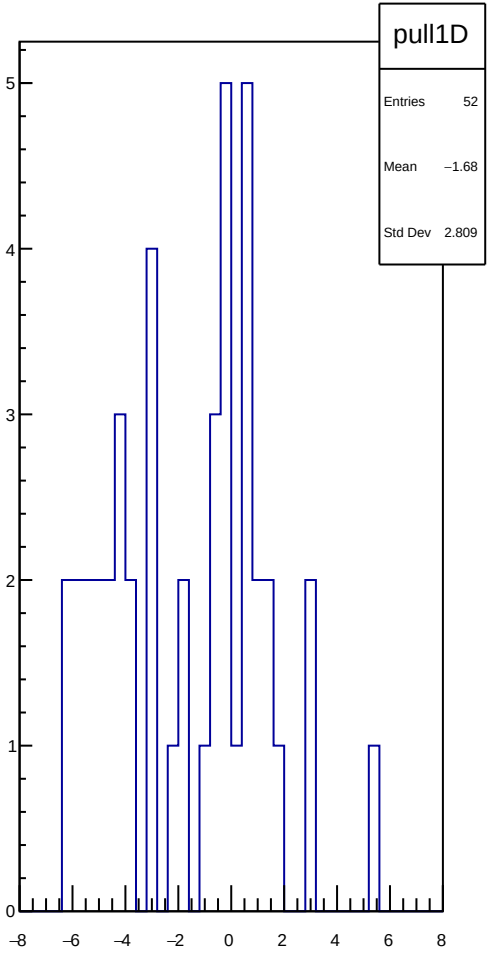
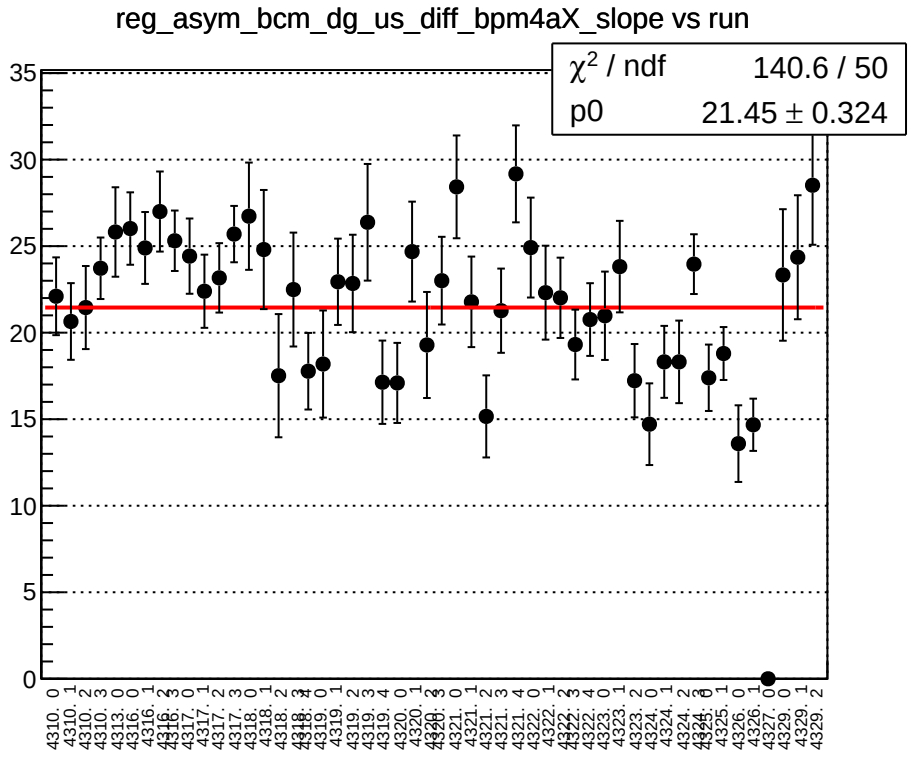
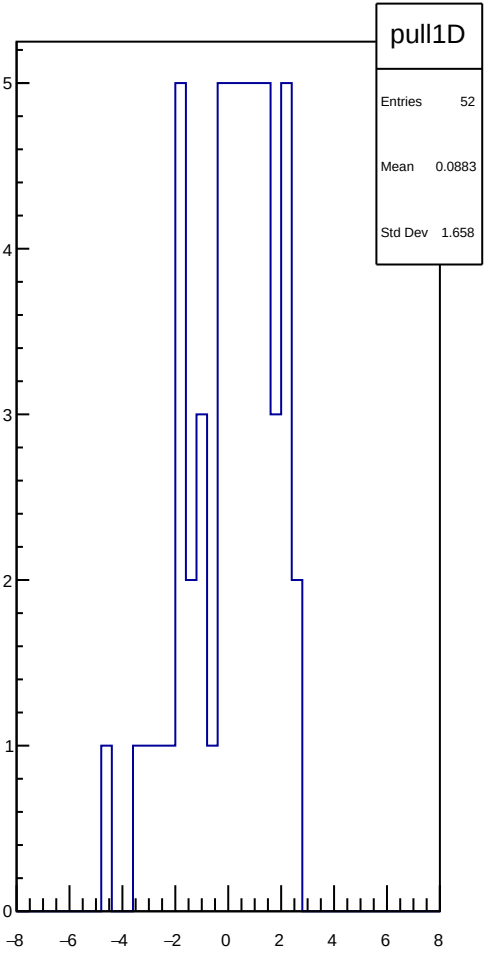
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

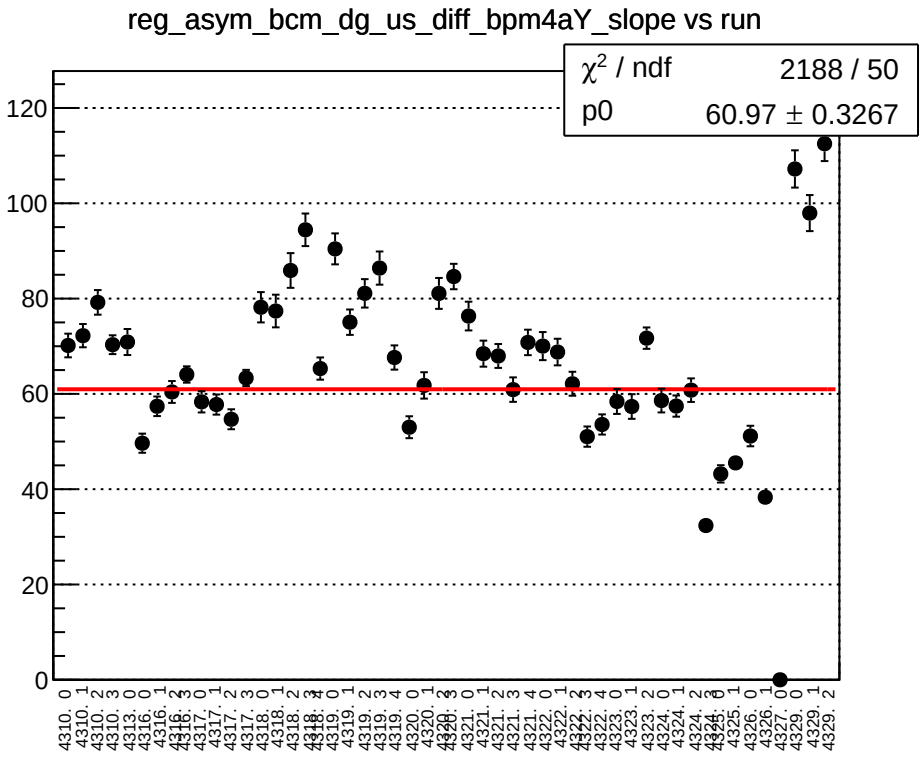

pull1D
Entries 52
Mean −2.133
Std Dev 3.764
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

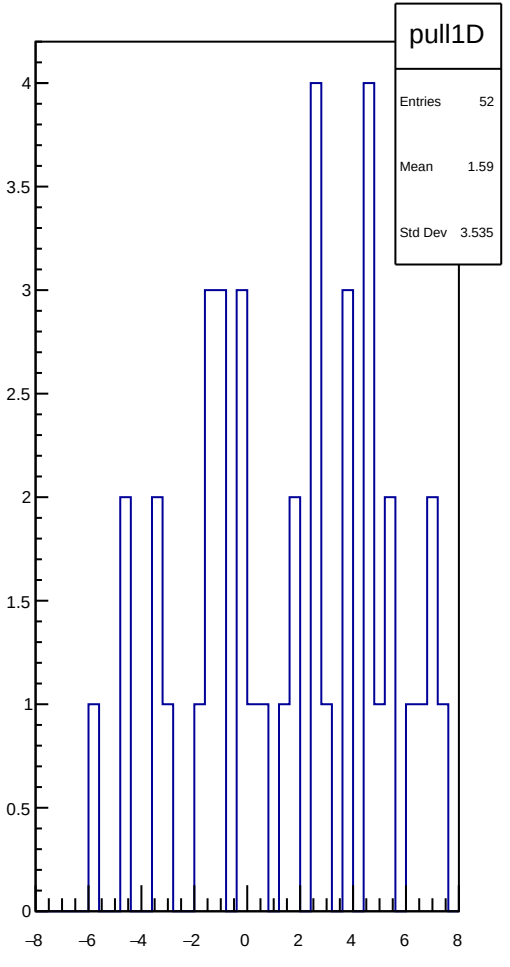

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 1237 / 50
p0 −8.853 ± 0.06541
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

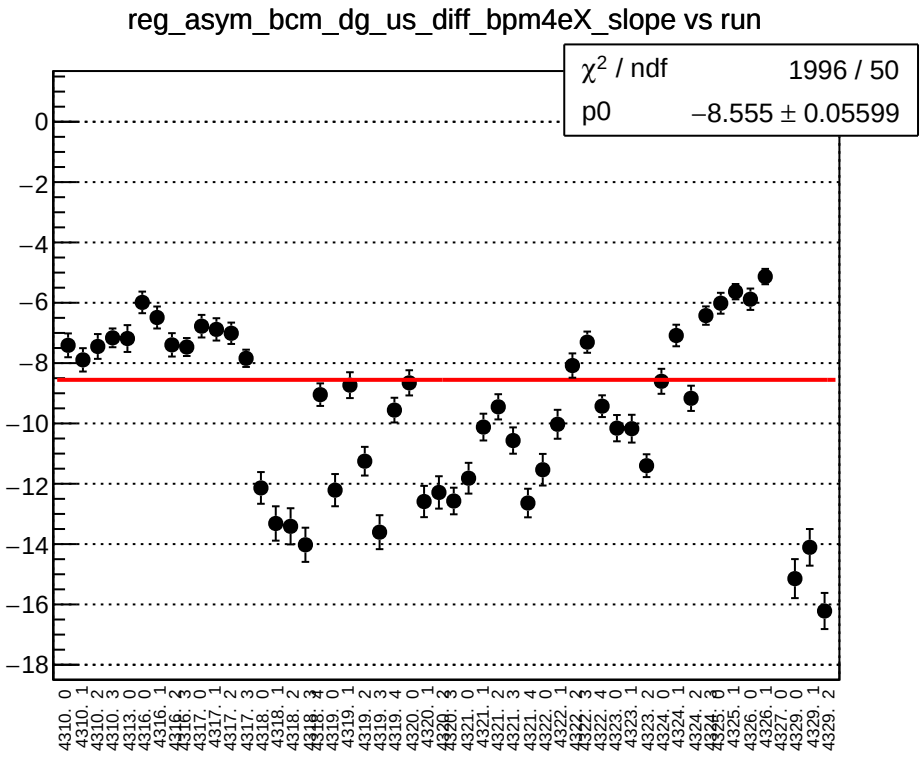

pull1D
Entries 52
Mean −1.68
Std Dev 2.809
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

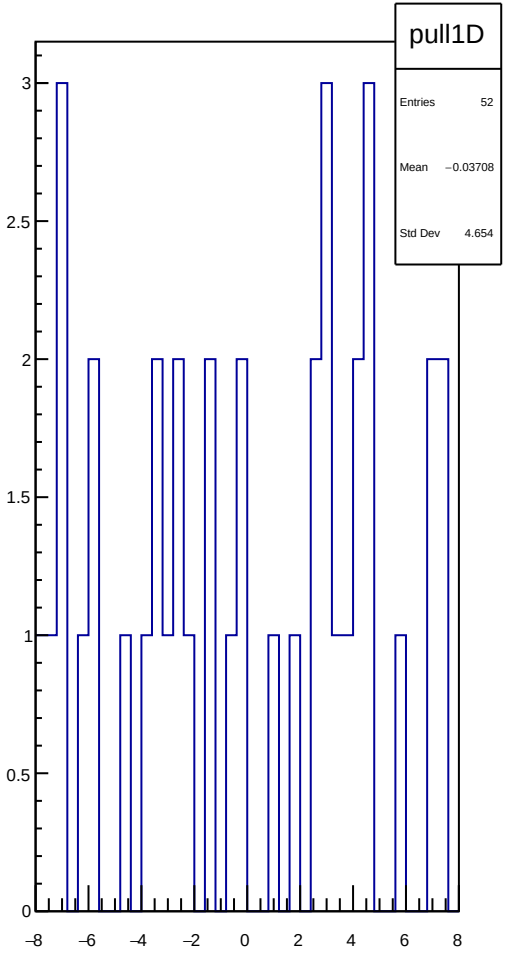

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 140.6 / 50
p0 21.45 ± 0.324

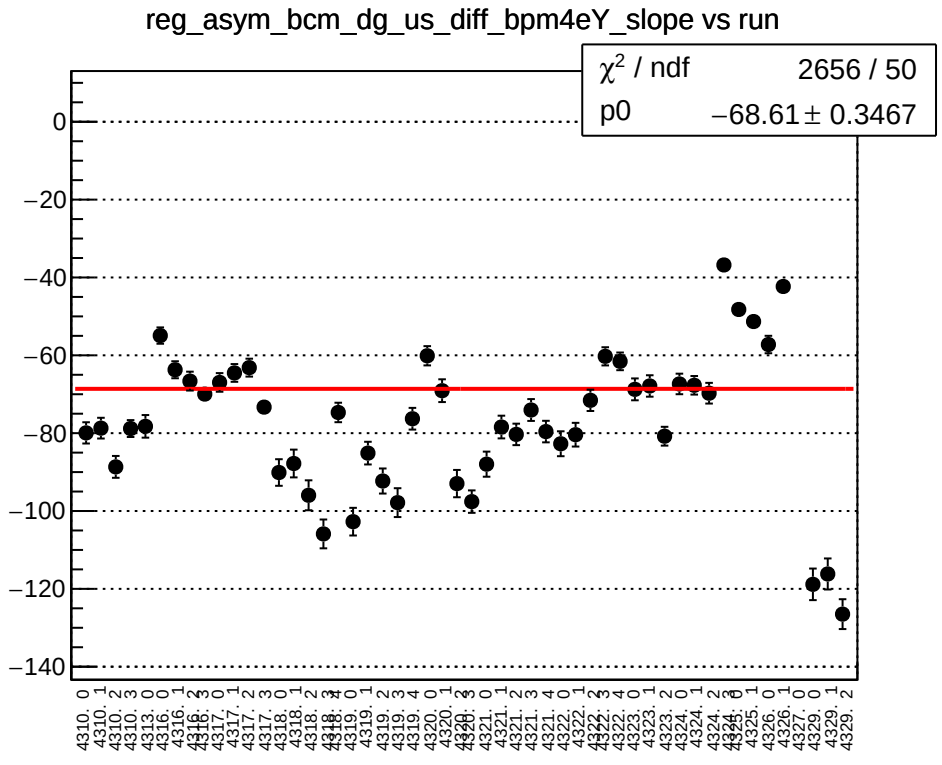

pull1D
Entries 52
Mean 0.0883
Std Dev 1.658

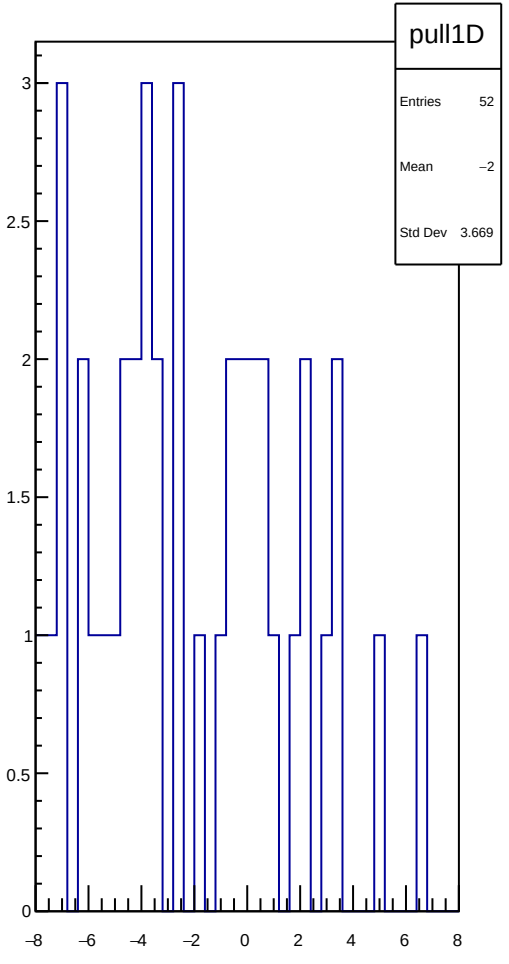

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 2188 / 50
p0 60.97 ± 0.3267
120
100
80
60
40
20
0

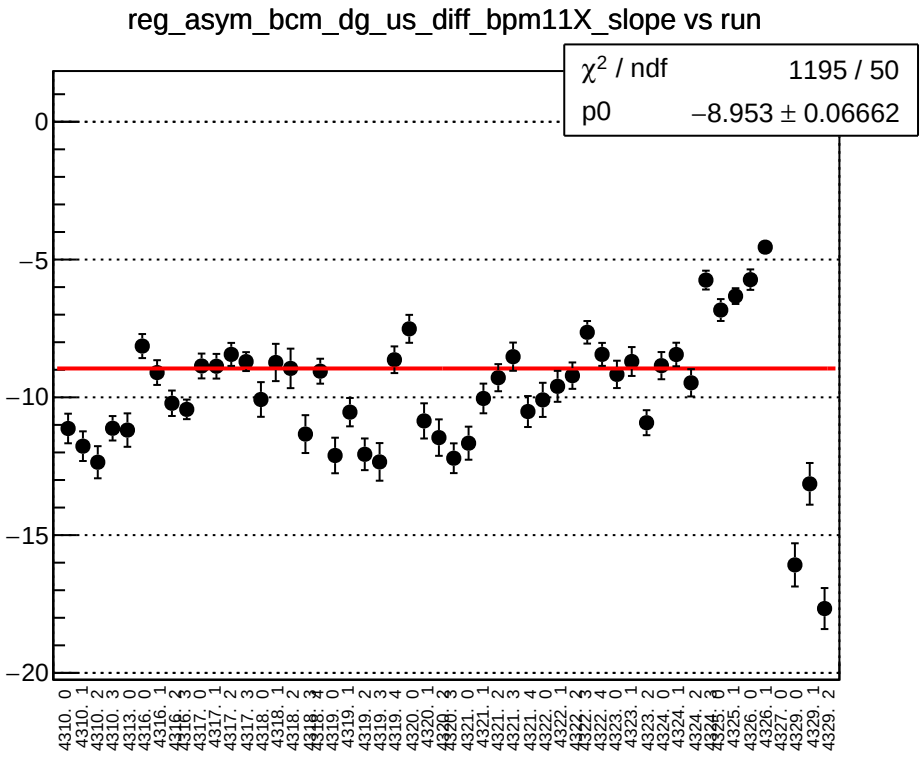

pull1D
Entries 52
Mean 1.59
Std Dev 3.535
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

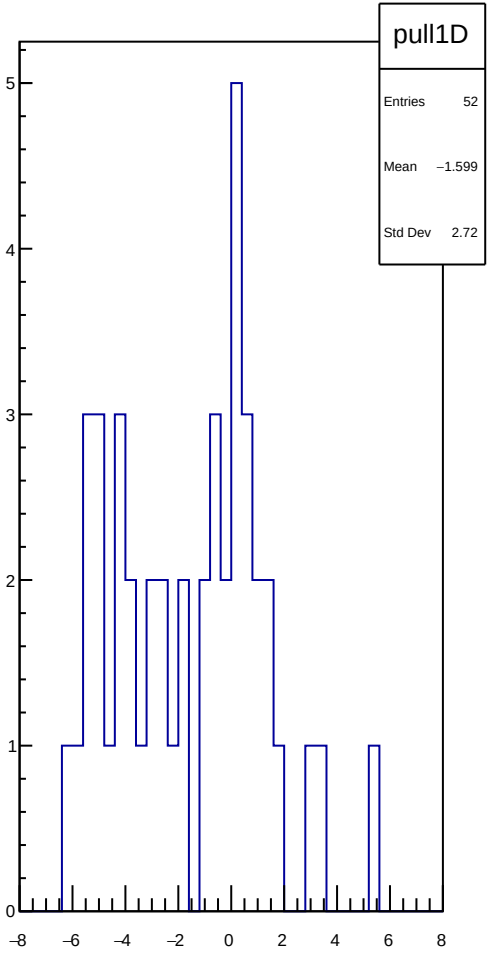

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1996 / 50
p0 −8.555 ± 0.05599
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

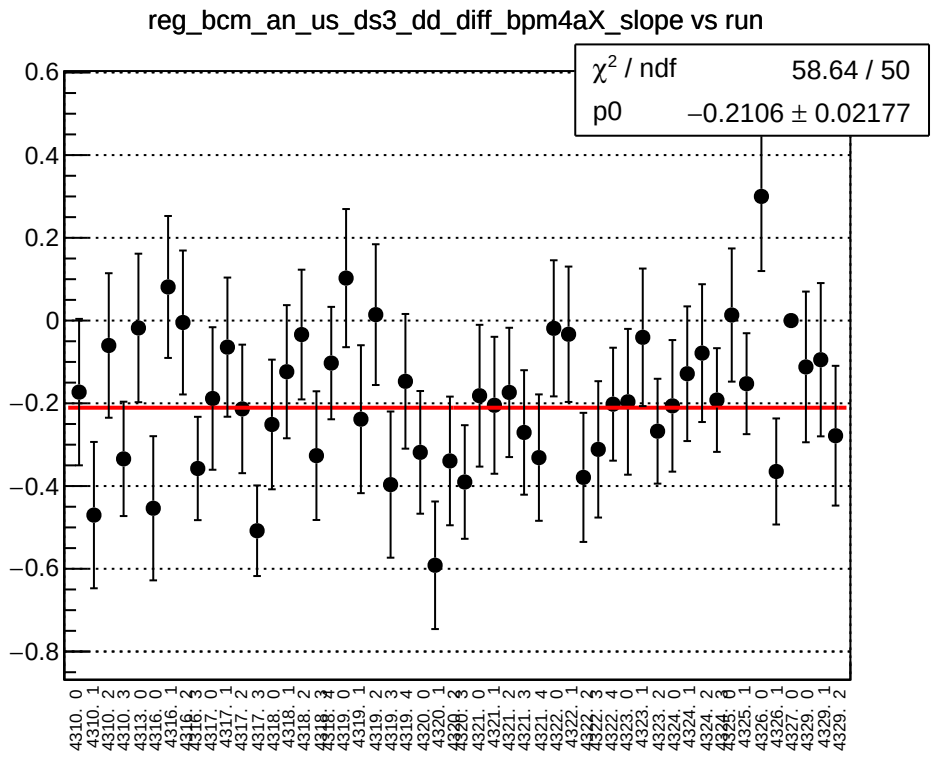

pull1D
Entries 52
Mean −0.03708
Std Dev 4.654
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

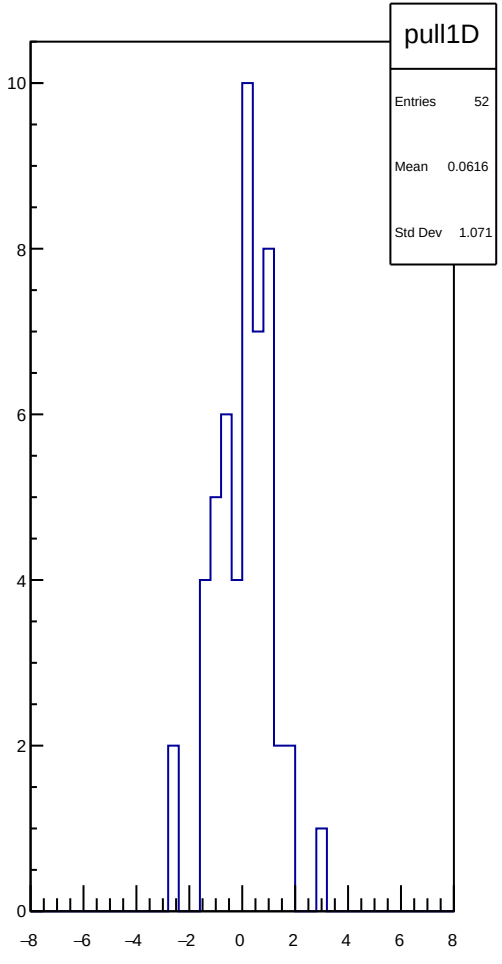

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 2656 / 50
p0 −68.61 ± 0.3467
0
−20
−40
−60
−80
−100
−120
−140

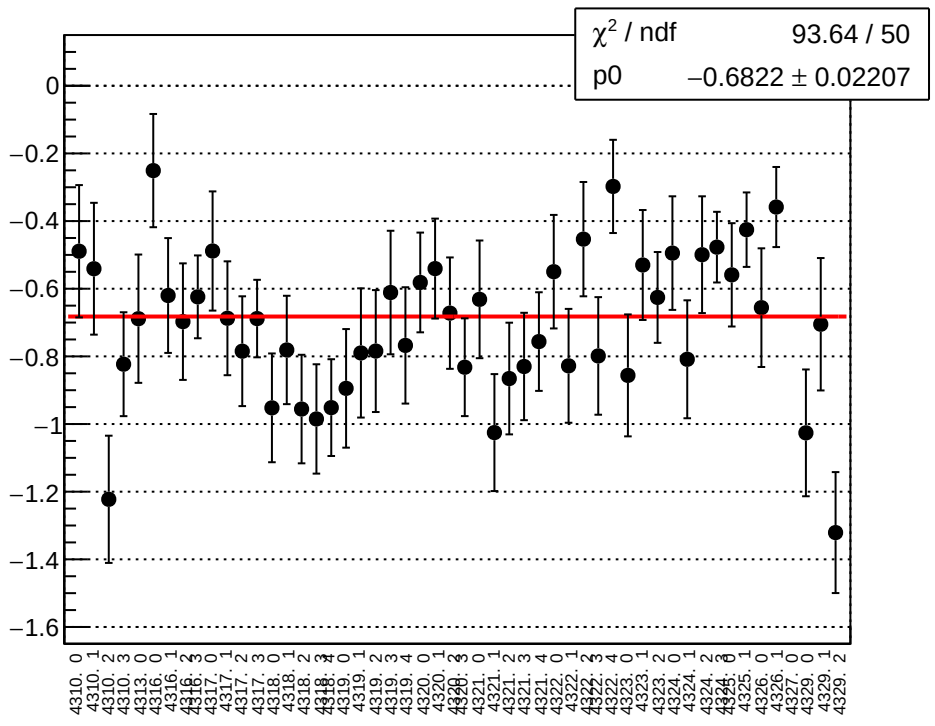

pull1D
Entries 52
Mean −2
Std Dev 3.669
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

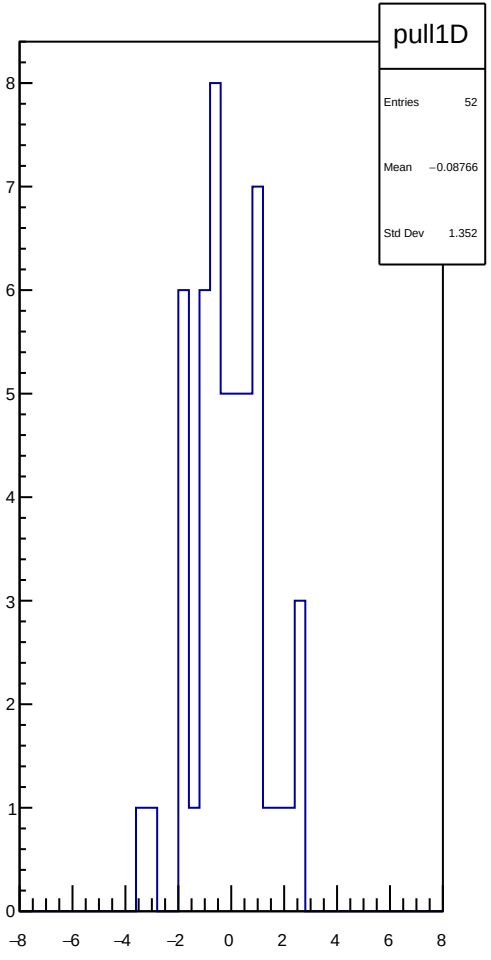

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 1195 / 50
p0 −8.953 ± 0.06662
0
−5
−10
−15
−20

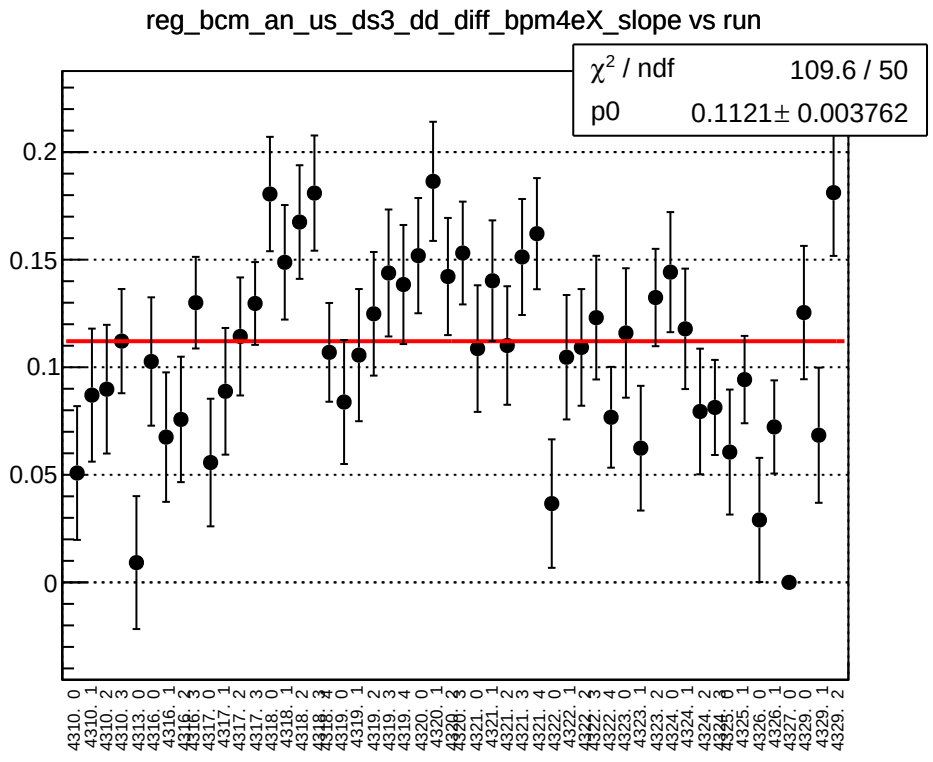

pull1D
Entries 52
Mean −1.599
Std Dev 2.72
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

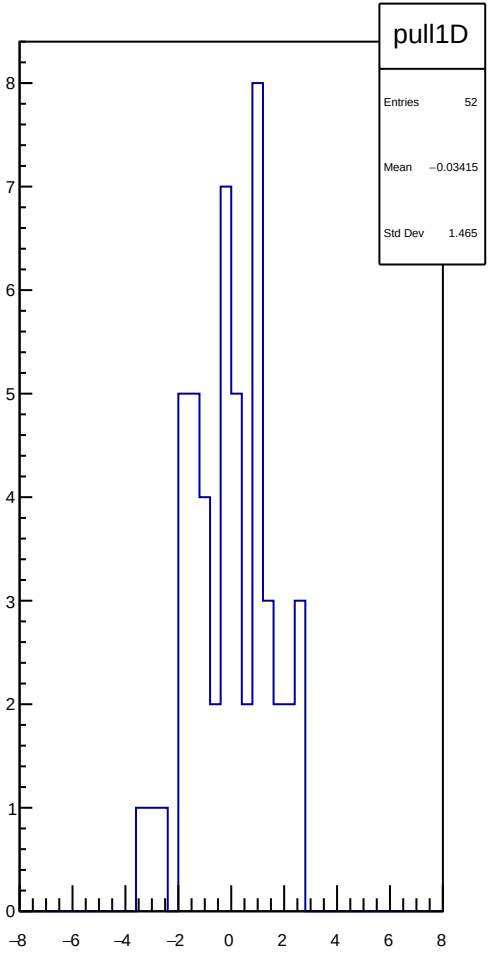

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.64 / 50
p0 −0.2106 ± 0.02177
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

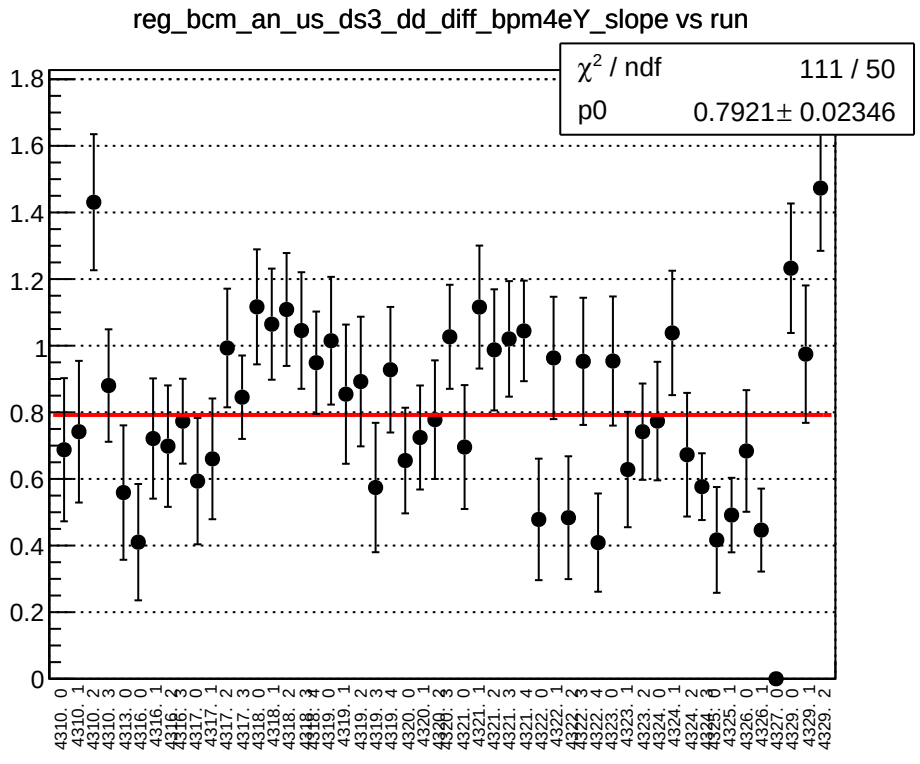

pull1D
Entries 52
Mean 0.0616
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

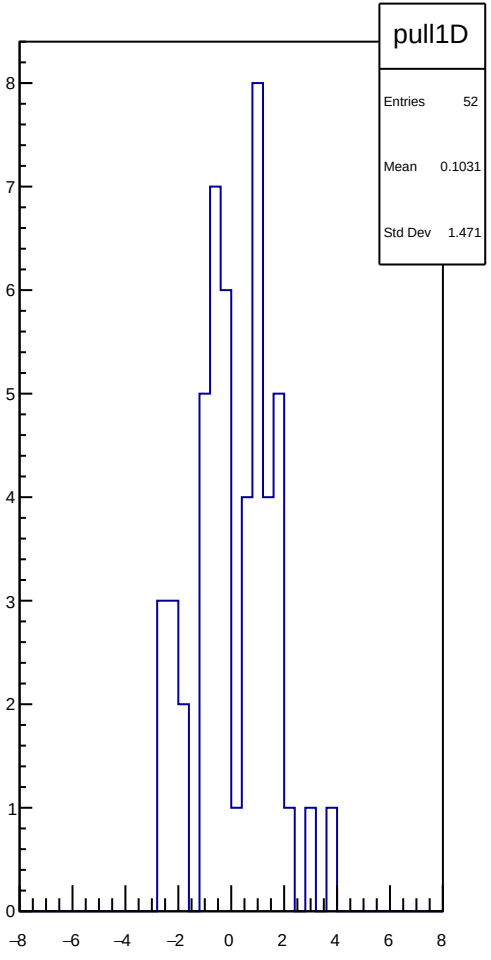

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.64 / 50
p0 −0.6822 ± 0.02207
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

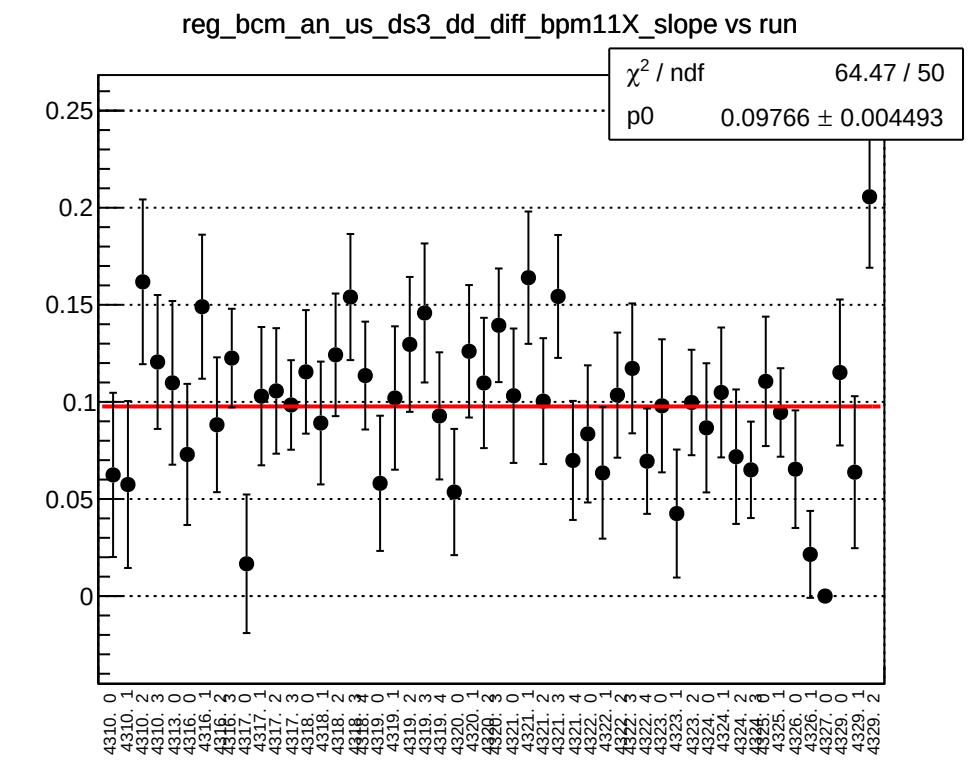

pull1D
Entries 52
Mean −0.08766
Std Dev 1.352
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

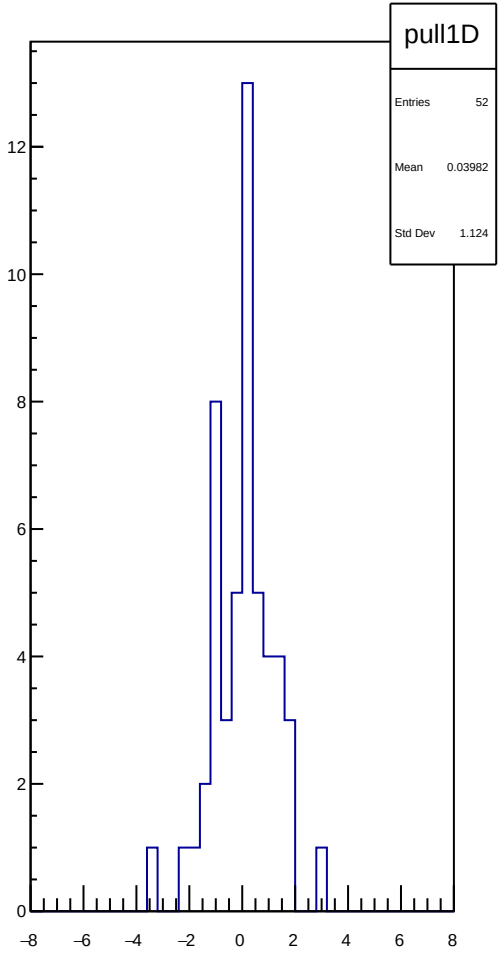

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.6 / 50
p0 0.1121± 0.003762
0.2
0.15
0.1
0.05
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

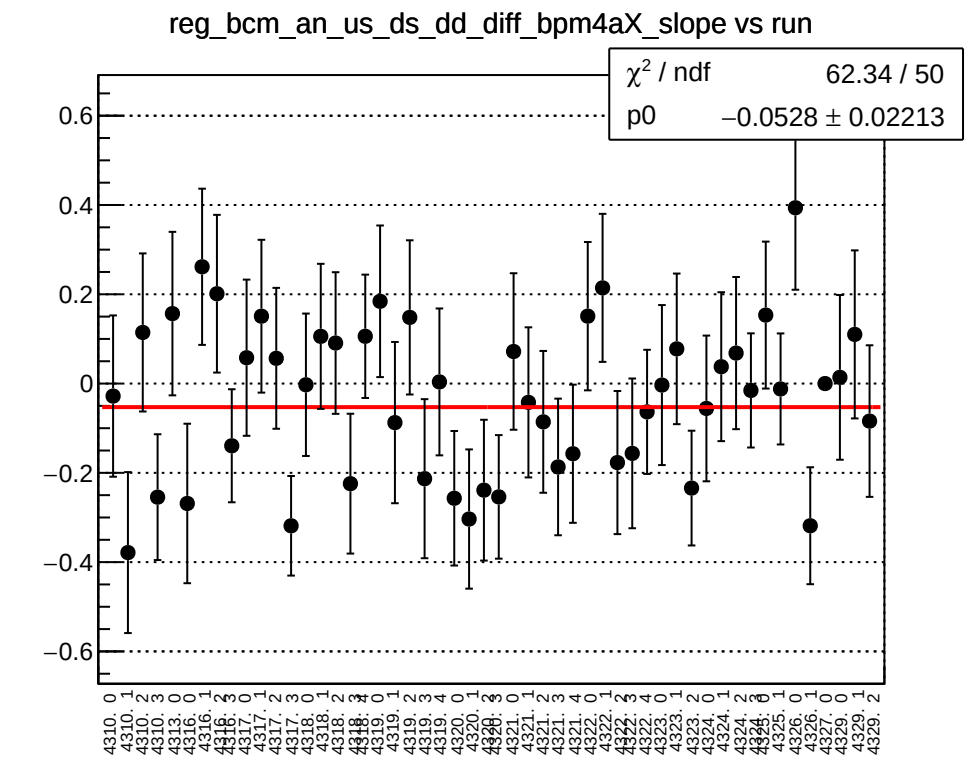

pull1D
Entries 52
Mean −0.03415
Std Dev 1.465
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

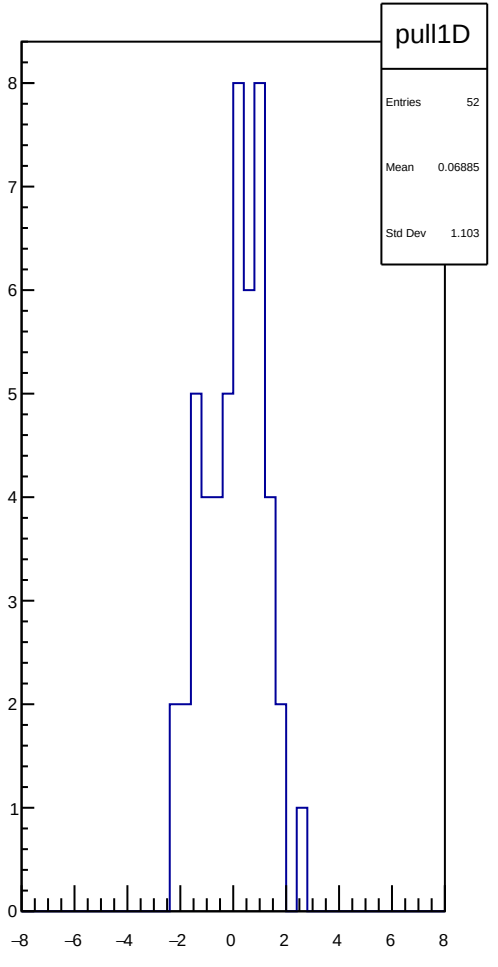

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 111 / 50
p0 0.7921± 0.02346
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

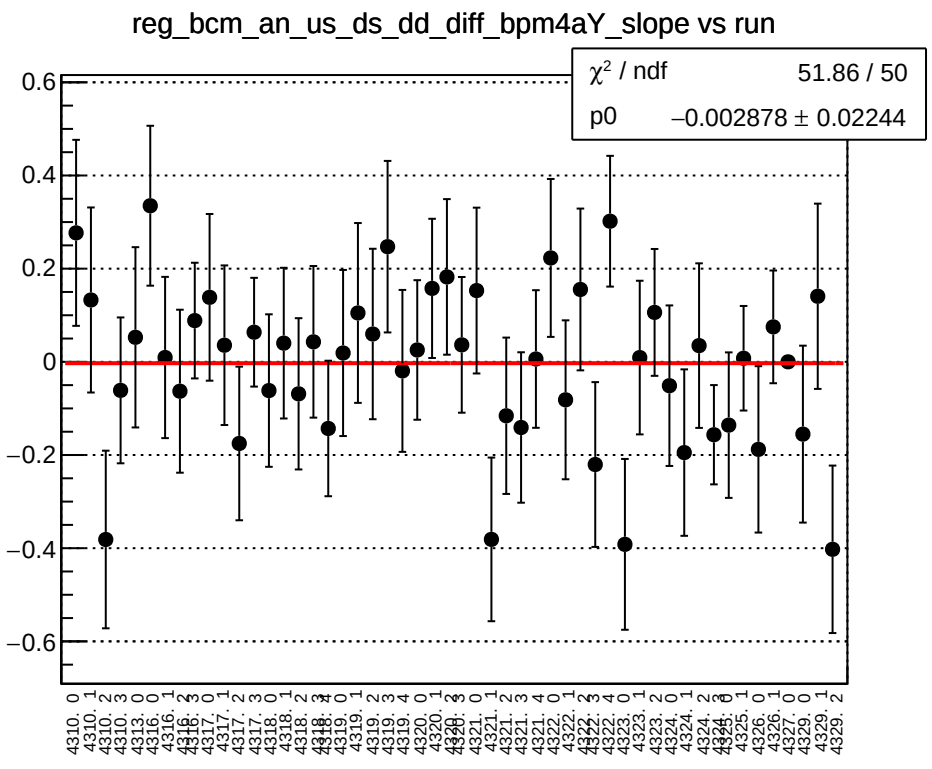

pull1D
Entries 52
Mean 0.1031
Std Dev 1.471
8
7
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

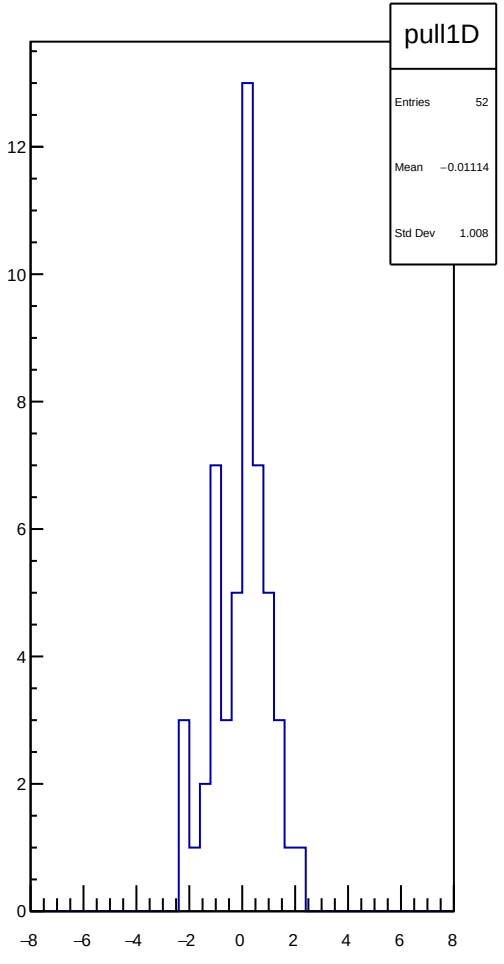

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 64.47 / 50
p0 0.09766 ± 0.004493
0.25
0.2
0.15
0.1
0.05
0

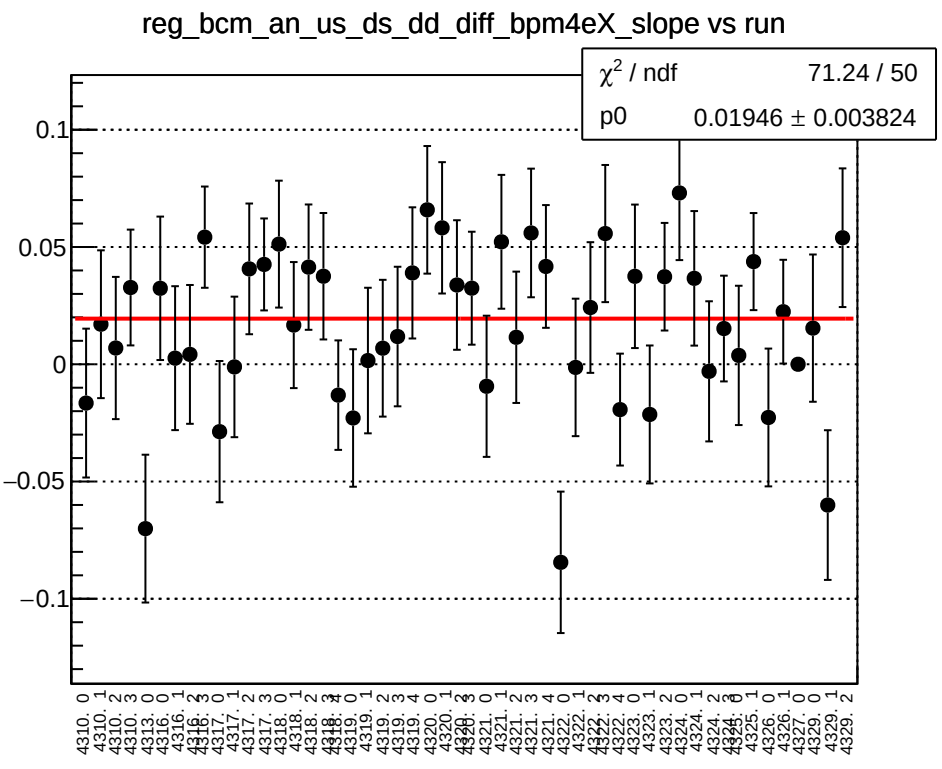

pull1D
Entries 52
Mean 0.03982
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

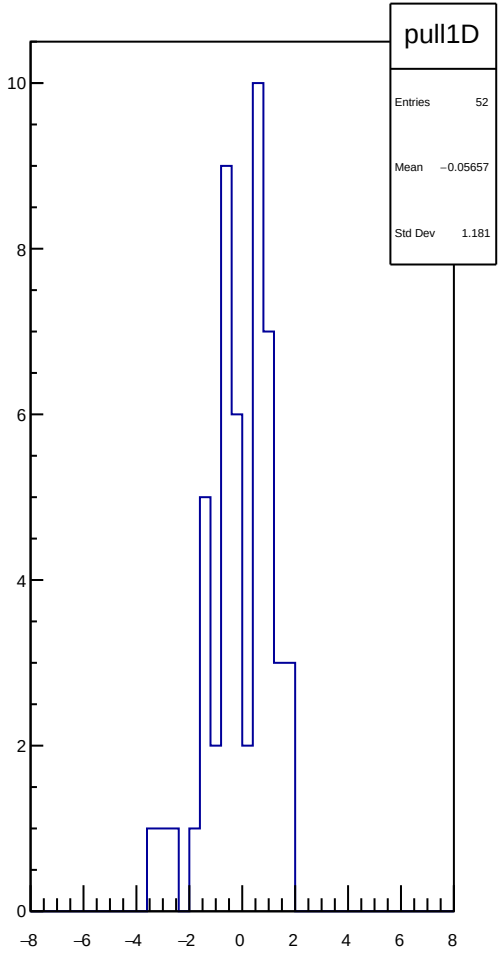

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 62.34 / 50
p0 −0.0528 ± 0.02213
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

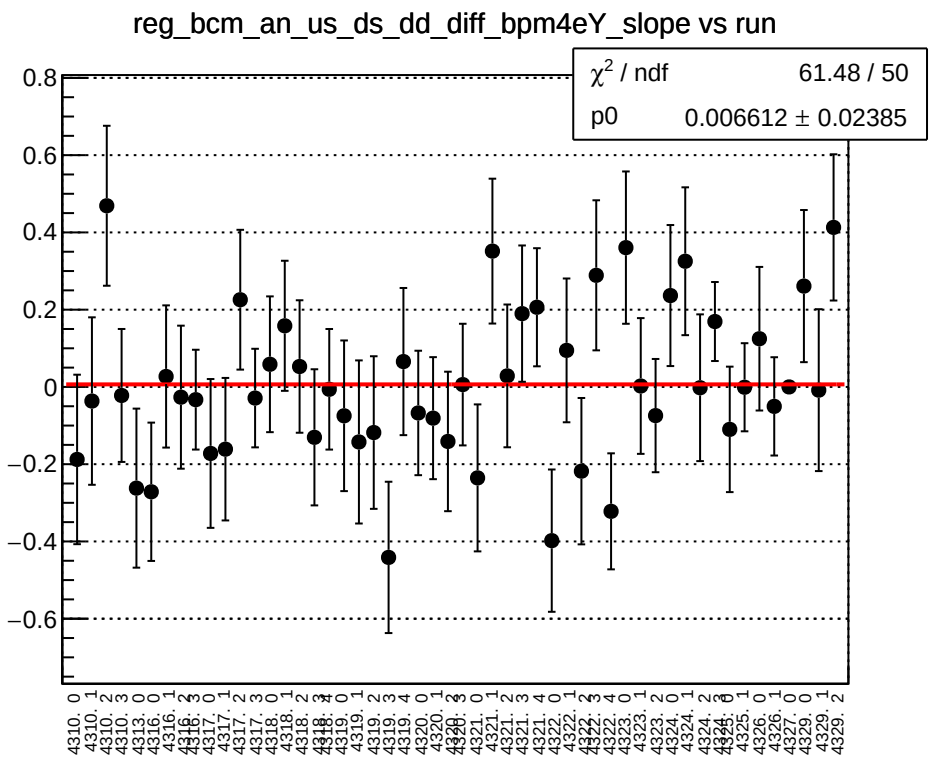

pull1D
Entries 52
Mean 0.06885
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

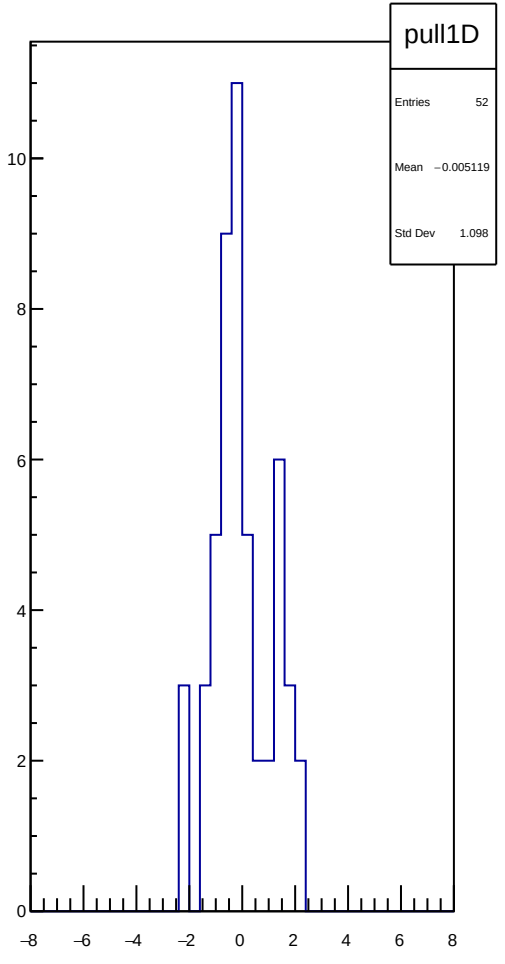

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.86 / 50
p0 −0.002878 ± 0.02244
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

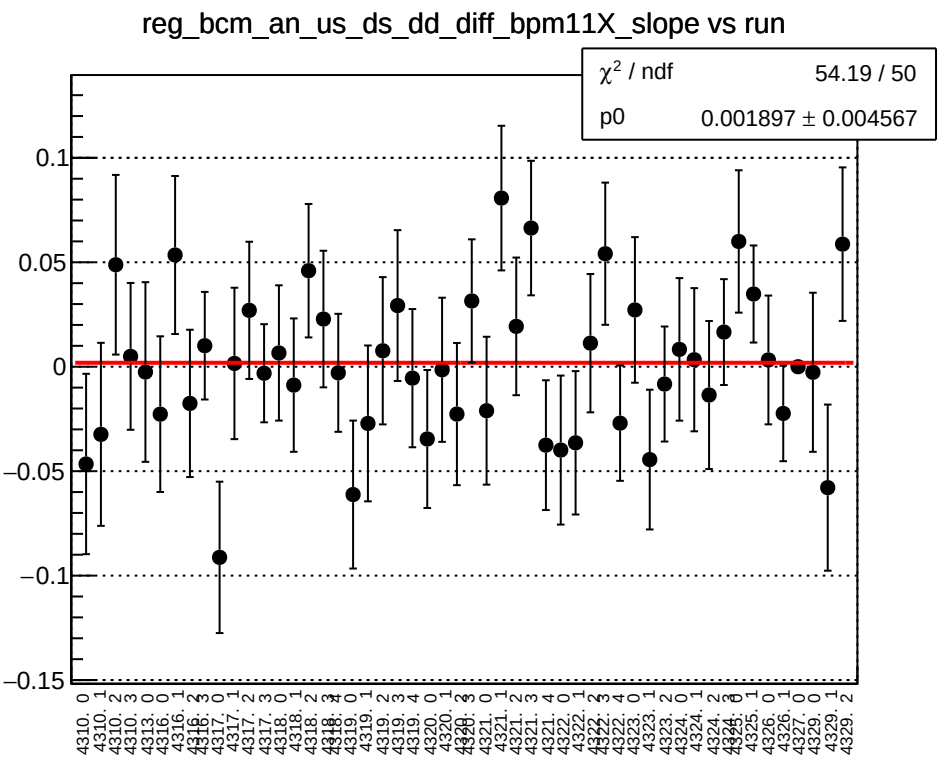

pull1D
Entries 52
Mean −0.01114
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

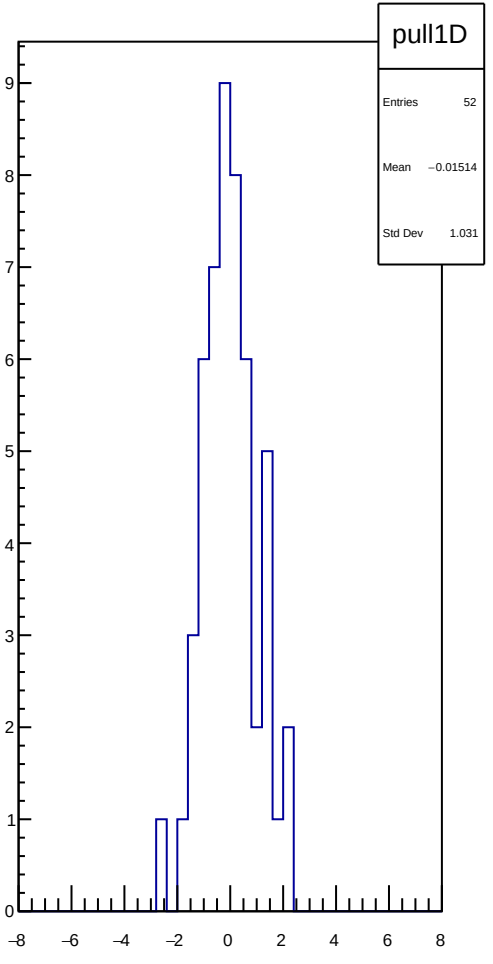

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.24 / 50
p0 0.01946 ± 0.003824
0.1
0.05
0
−0.05
−0.1

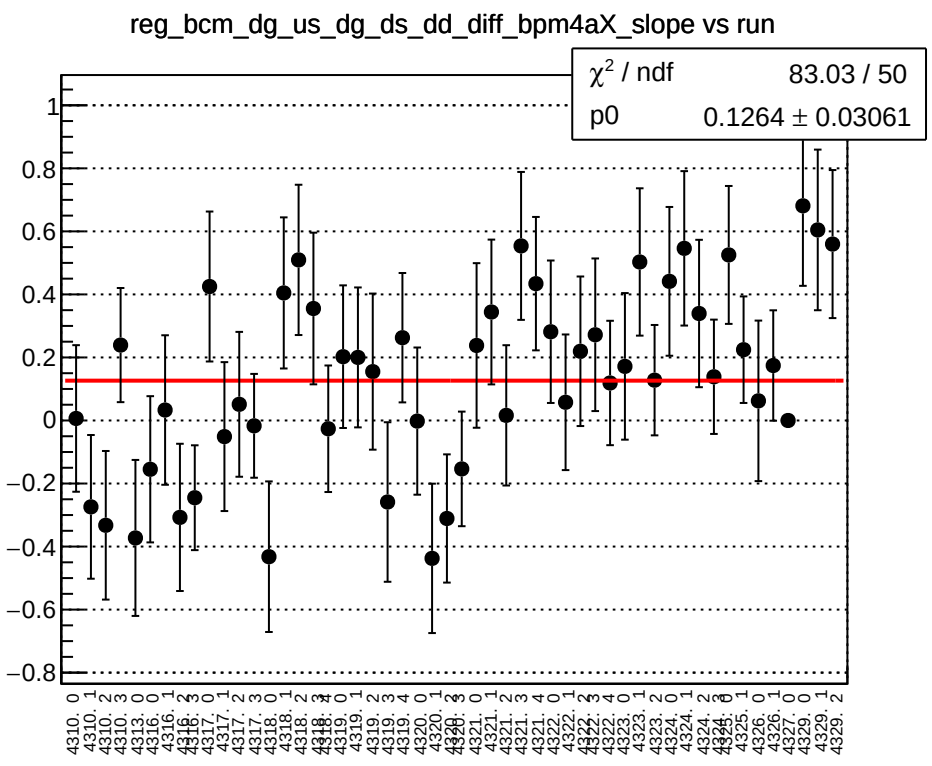

pull1D
Entries 52
Mean −0.05657
Std Dev 1.181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

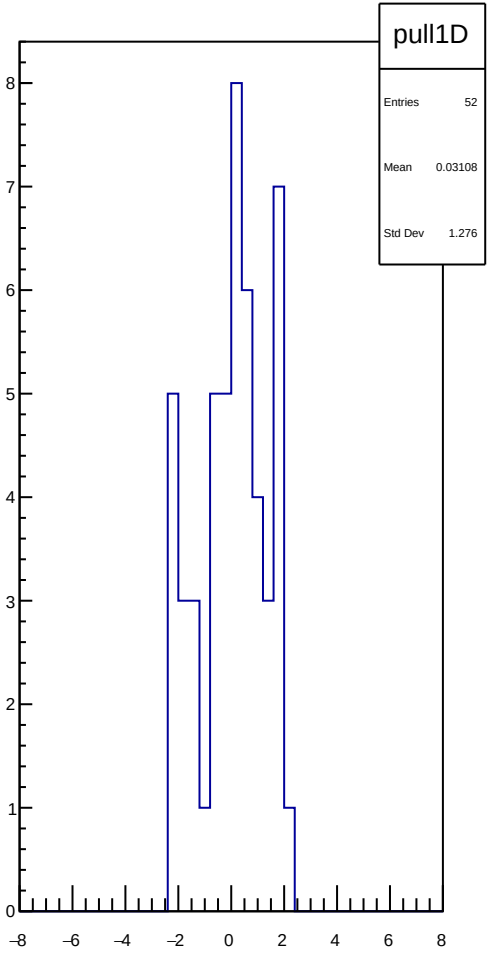

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.48 / 50
p0 0.006612 ± 0.02385
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

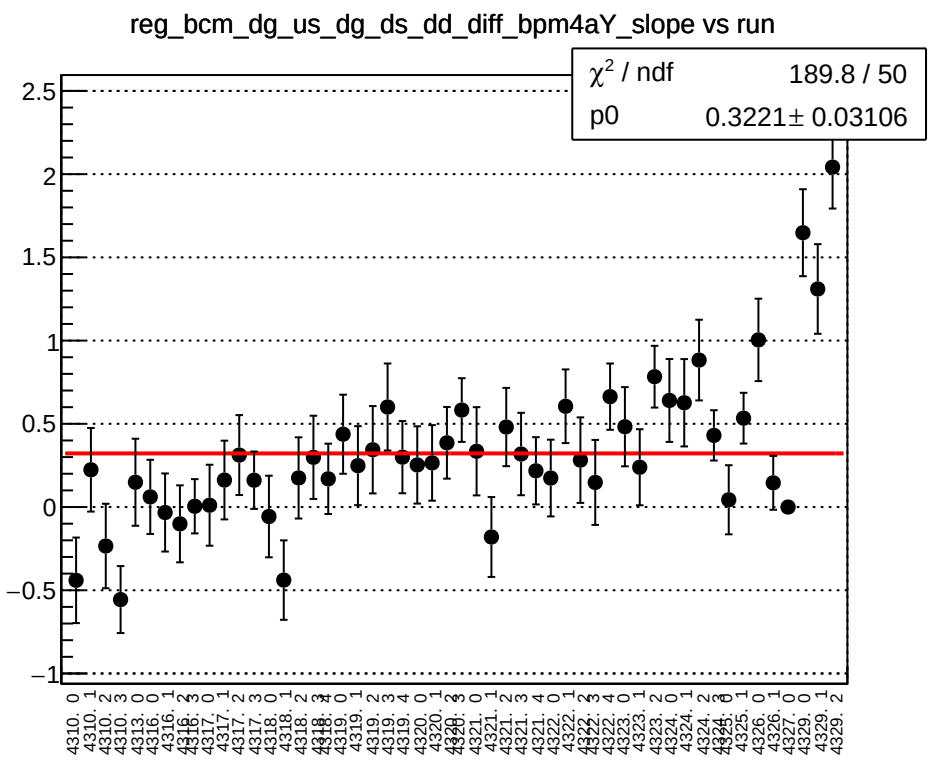

pull1D
Entries 52
Mean −0.005119
Std Dev 1.098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

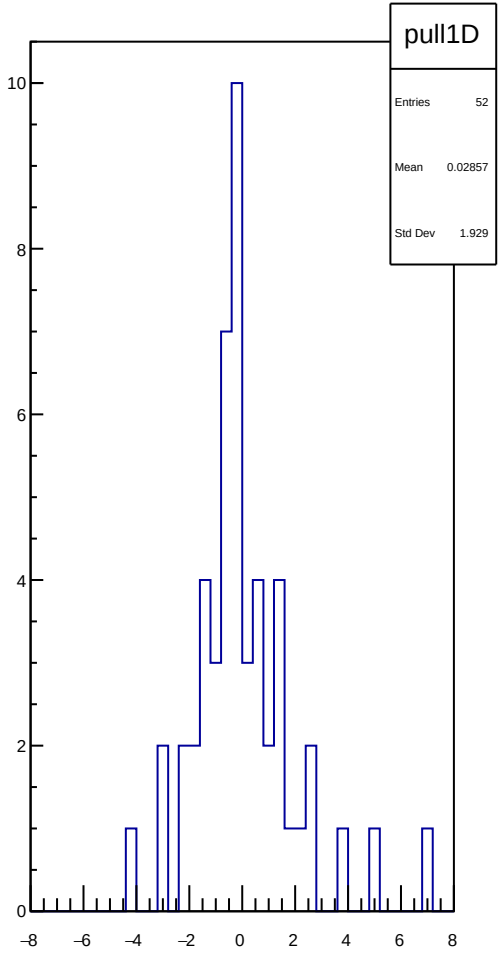

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 54.19 / 50
p0 0.001897 ± 0.004567
0.1
0.05
0
−0.05
−0.1
−0.15

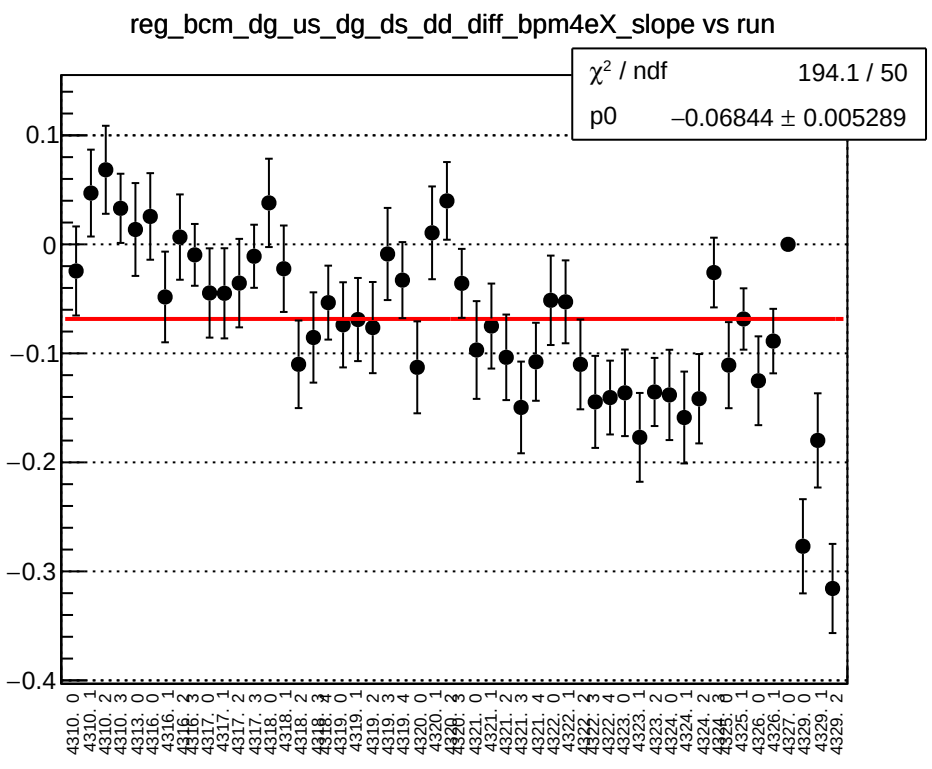

pull1D
Entries 52
Mean −0.01514
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

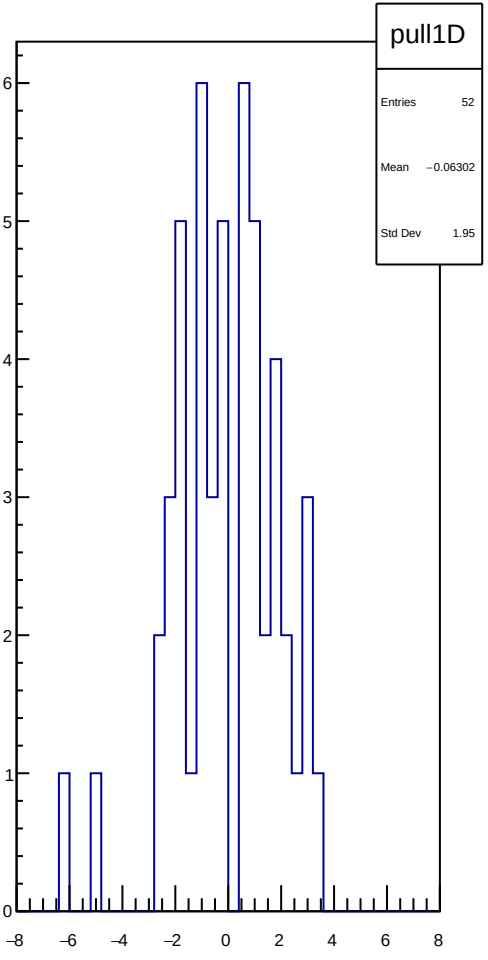

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 83.03 / 50
p0 0.1264 ± 0.03061
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

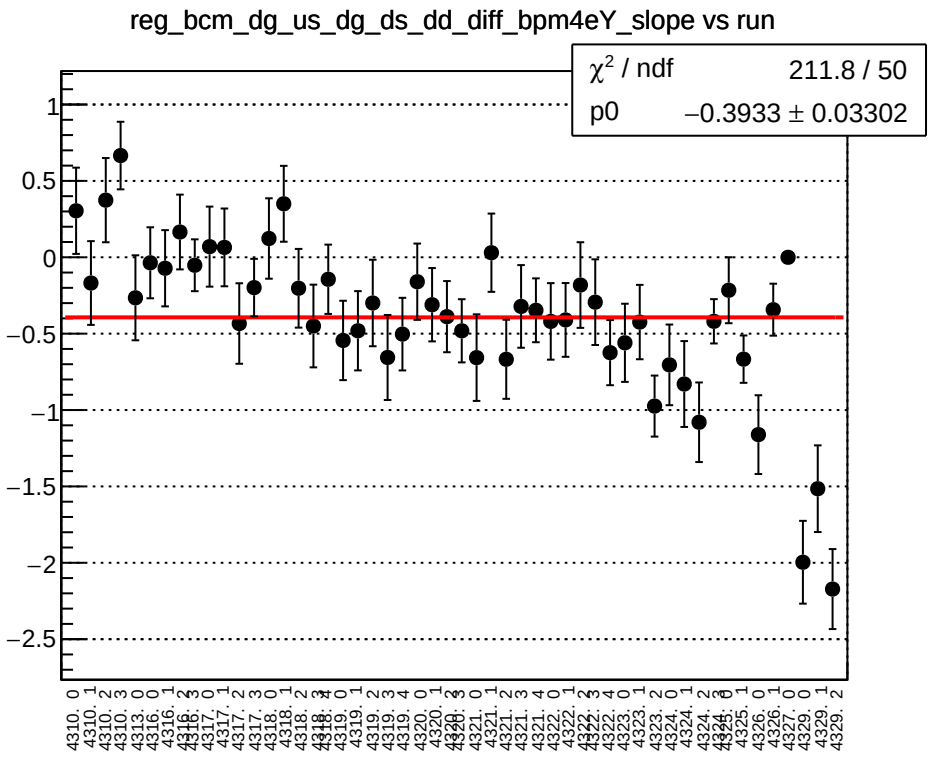

pull1D
Entries 52
Mean 0.03108
Std Dev 1.276
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

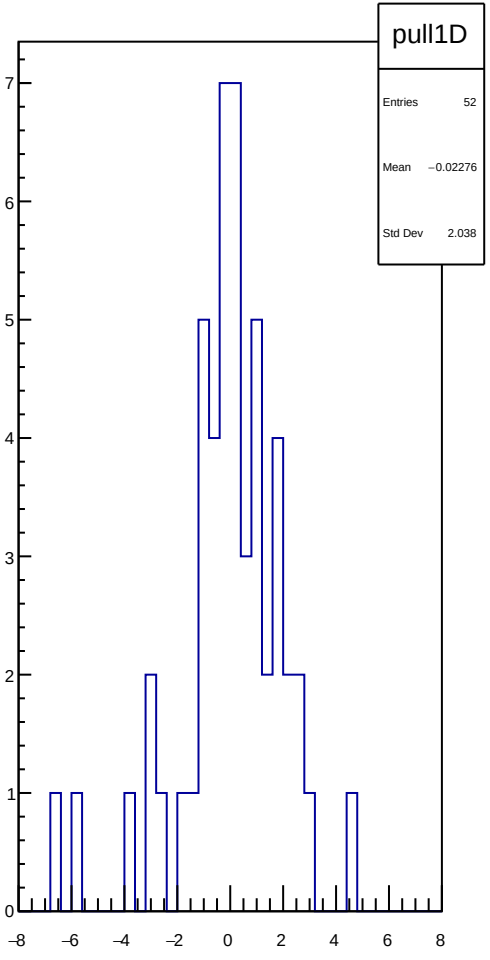

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 189.8 / 50
p0 0.3221± 0.03106
2.5
2
1.5
1
0.5
0
−0.5
−1
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

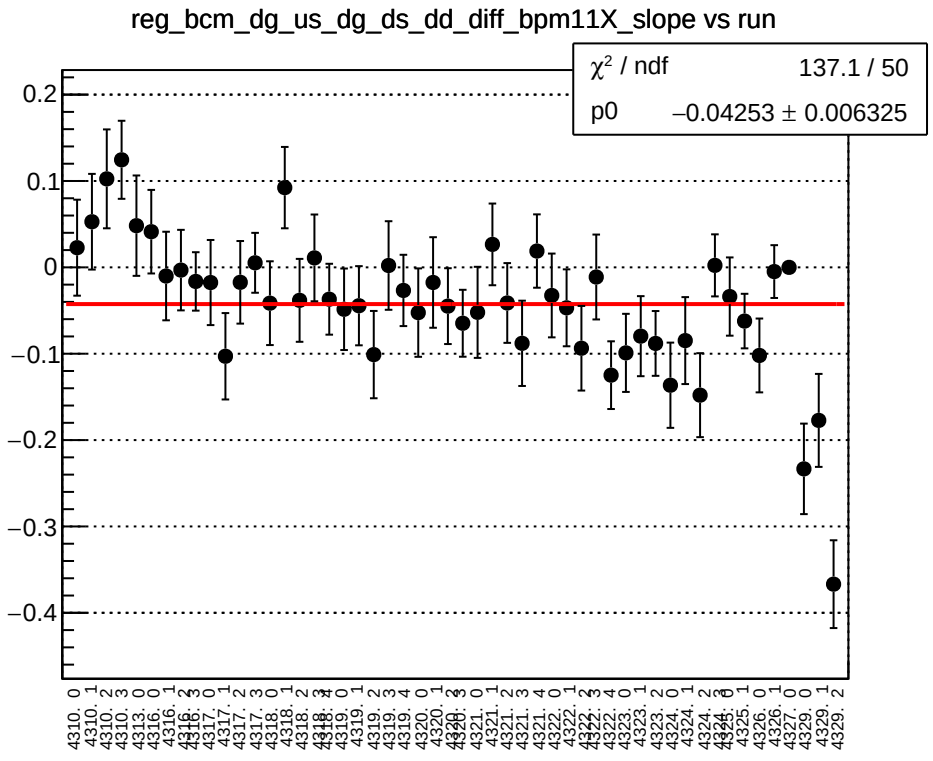

pull1D
Entries 52
Mean 0.02857
Std Dev 1.929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

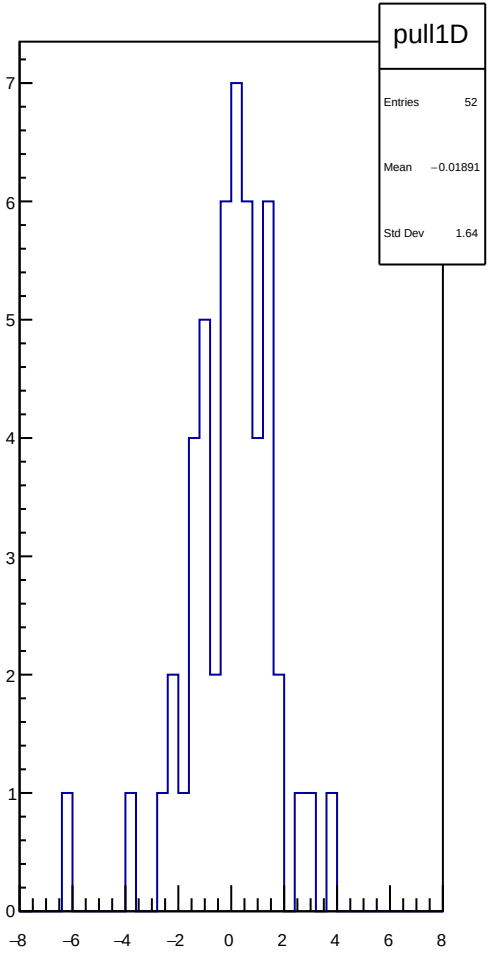

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 194.1 / 50
p0 −0.06844 ± 0.005289
0.1
0
−0.1
−0.2
−0.3
−0.4
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

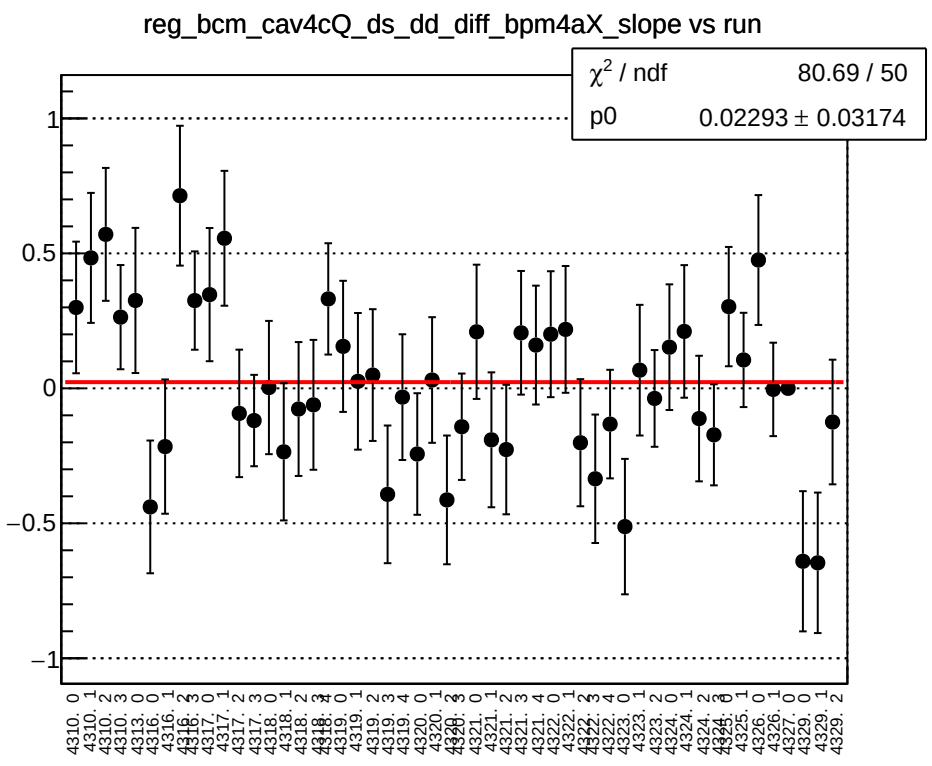

pull1D
Entries 52
Mean −0.06302
Std Dev 1.95
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

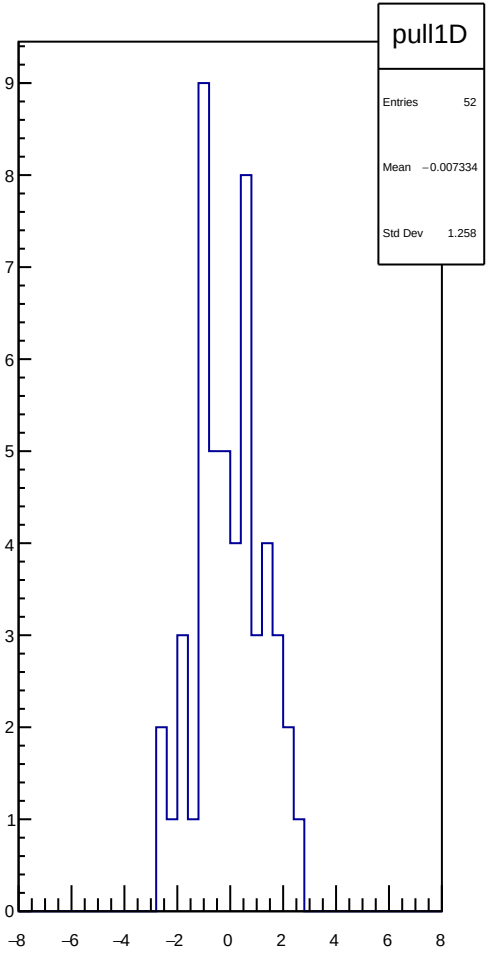

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 211.8 / 50
p0 −0.3933 ± 0.03302
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

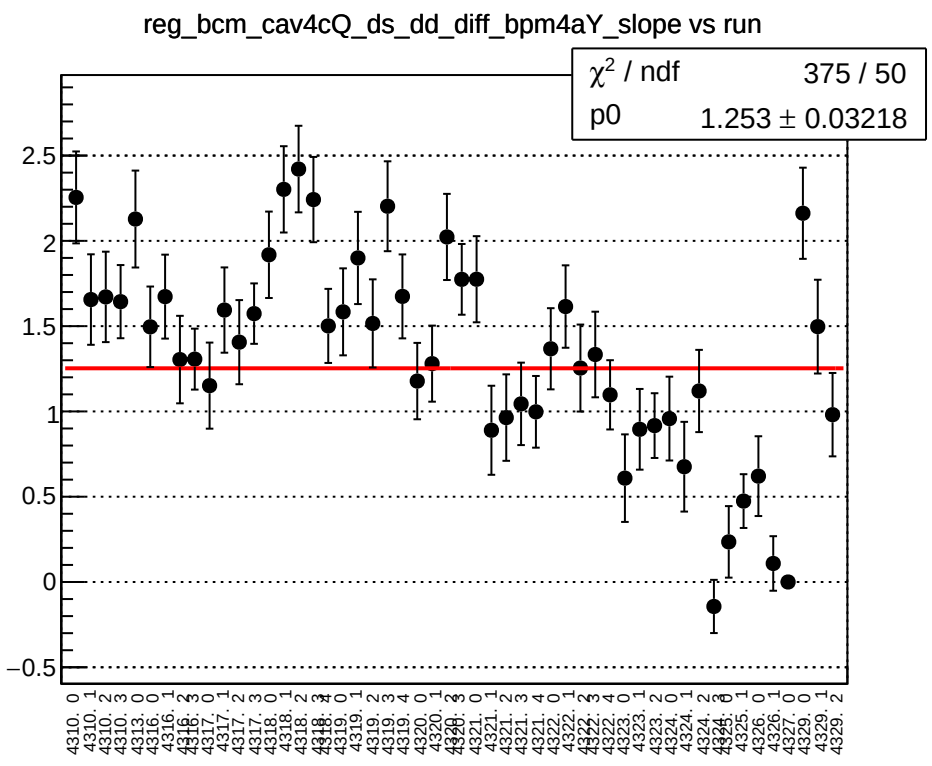

pull1D
Entries 52
Mean −0.02276
Std Dev 2.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

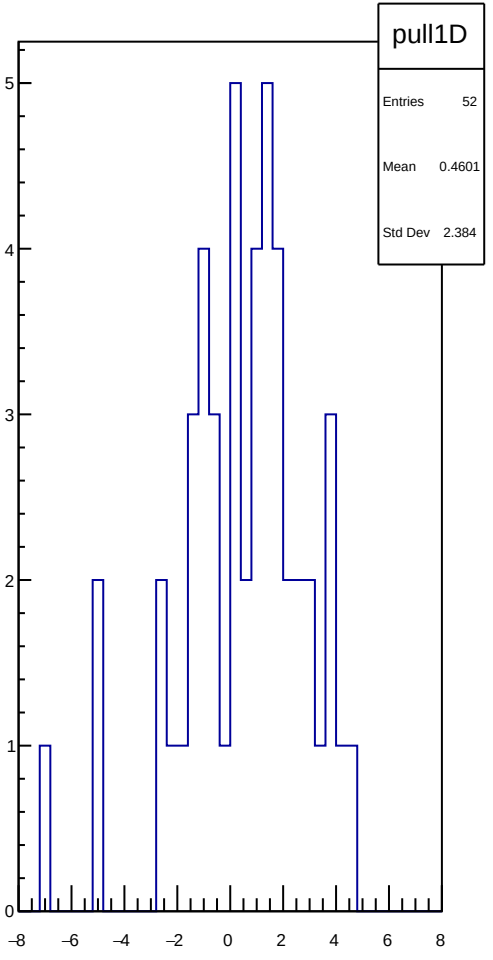

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 137.1 / 50
p0 −0.04253 ± 0.006325
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

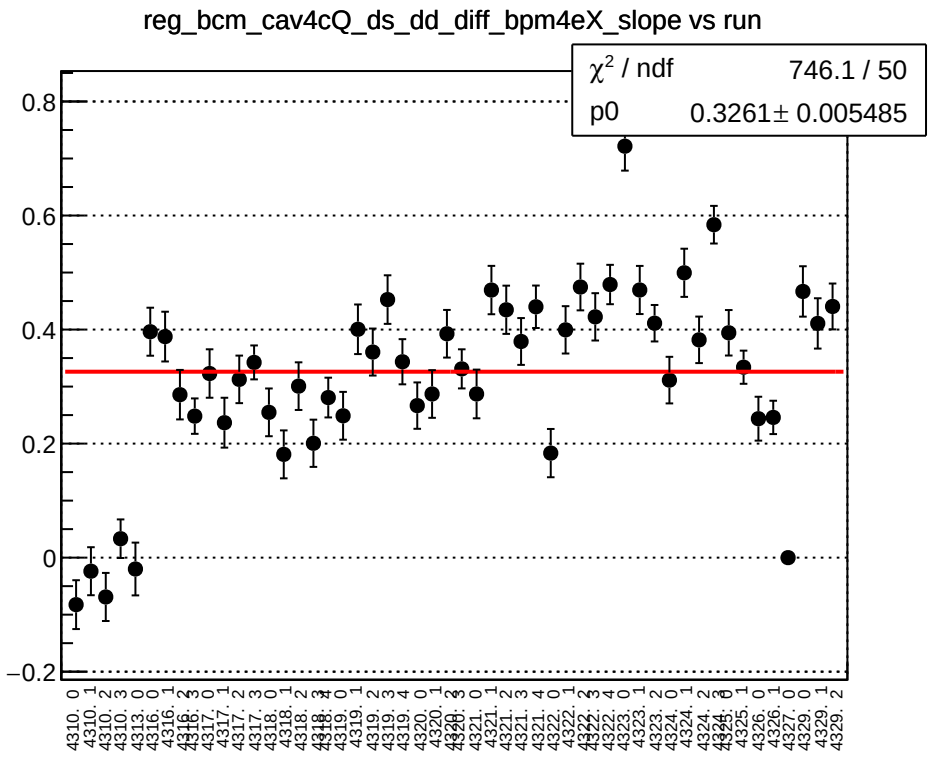

pull1D
Entries 52
Mean −0.01891
Std Dev 1.64
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

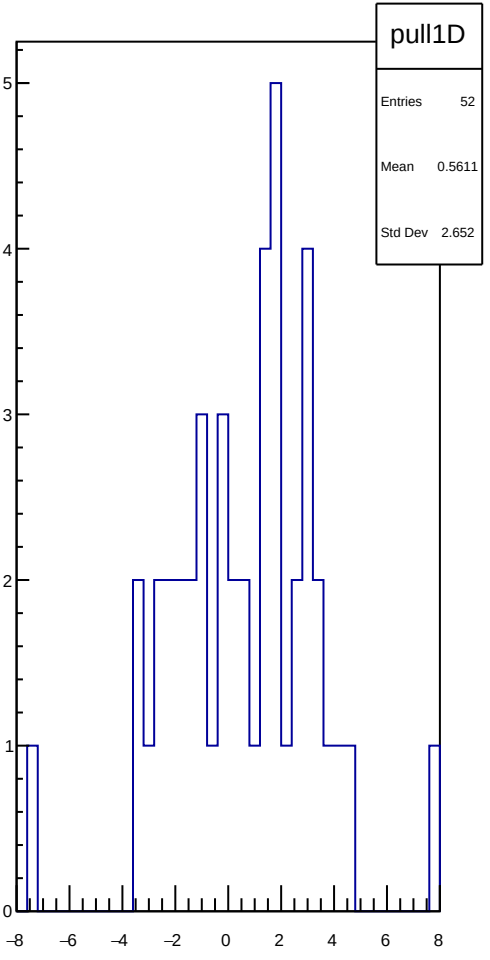

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 80.69 / 50
p0 0.02293 ± 0.03174
1
0.5
0
−0.5
−1

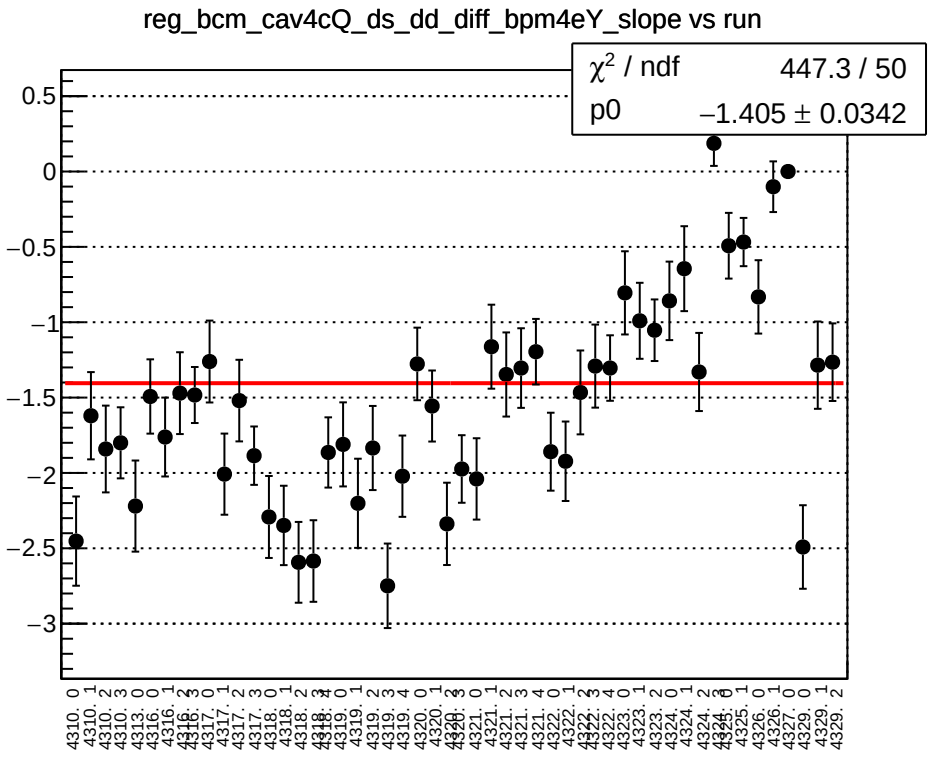

pull1D
Entries 52
Mean −0.007334
Std Dev 1.258
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

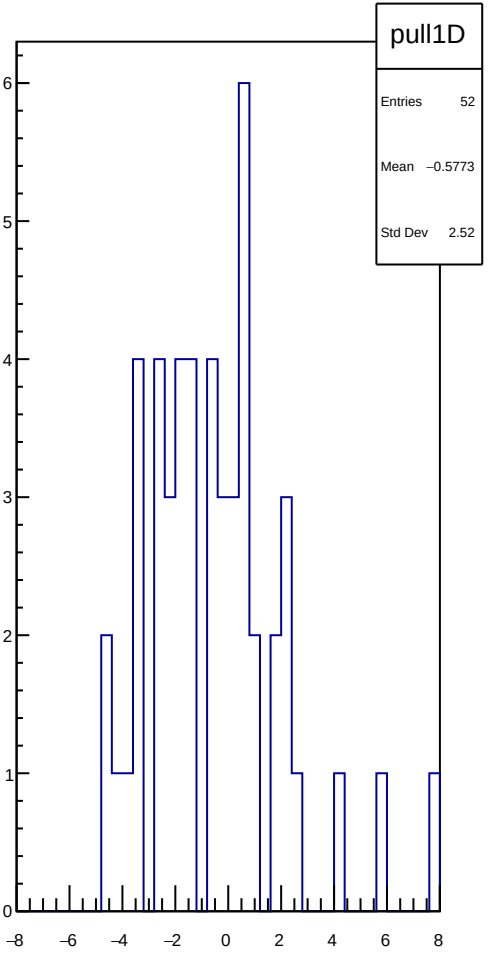

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 375 / 50
p0 1.253 ± 0.03218
2.5
2
1.5
1
0.5
0
−0.5
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2

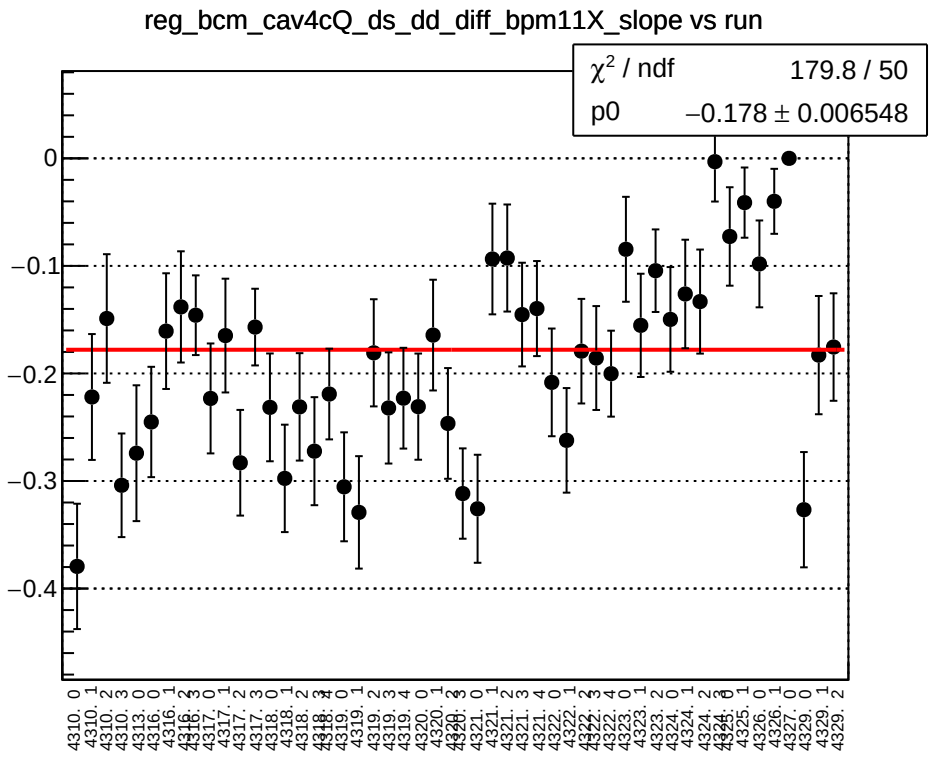

pull1D
Entries 52
Mean 0.4601
Std Dev 2.384
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

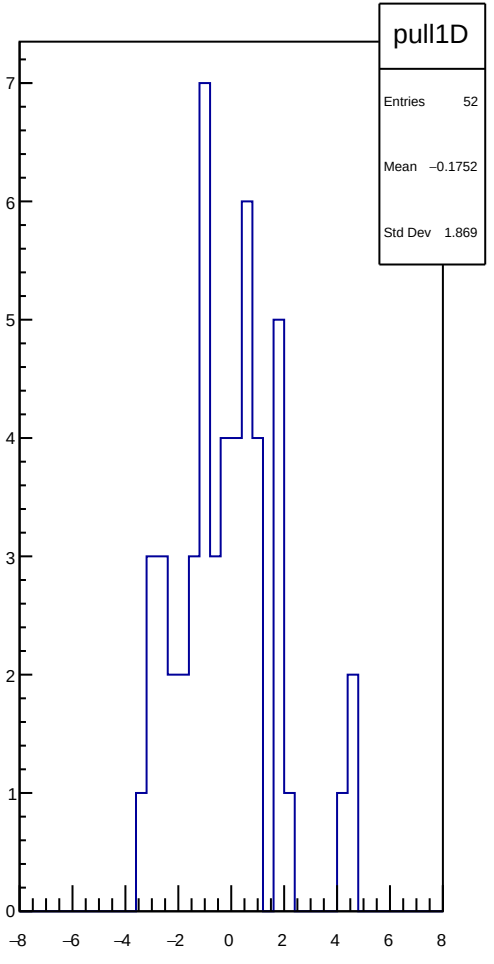

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 746.1 / 50
p0 0.3261± 0.005485
0.8
0.6
0.4
0.2
0
−0.2

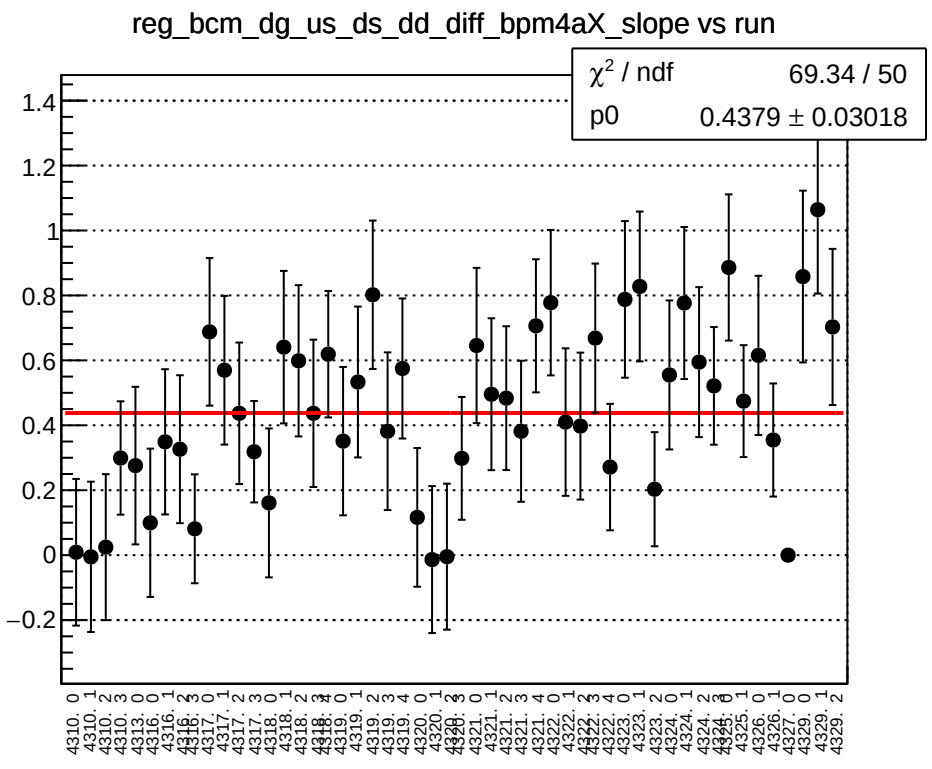

pull1D
Entries 52
Mean 0.5611
Std Dev 2.652
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

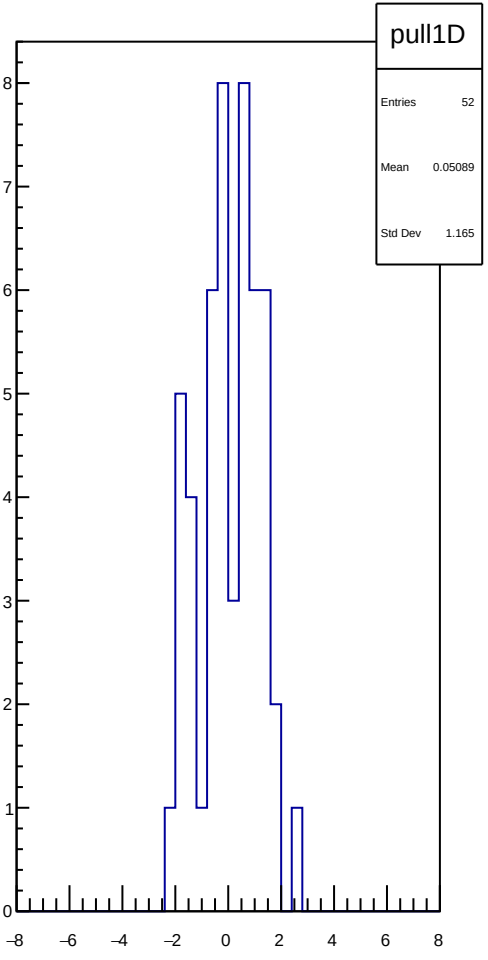

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 447.3 / 50
p0 −1.405 ± 0.0342
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

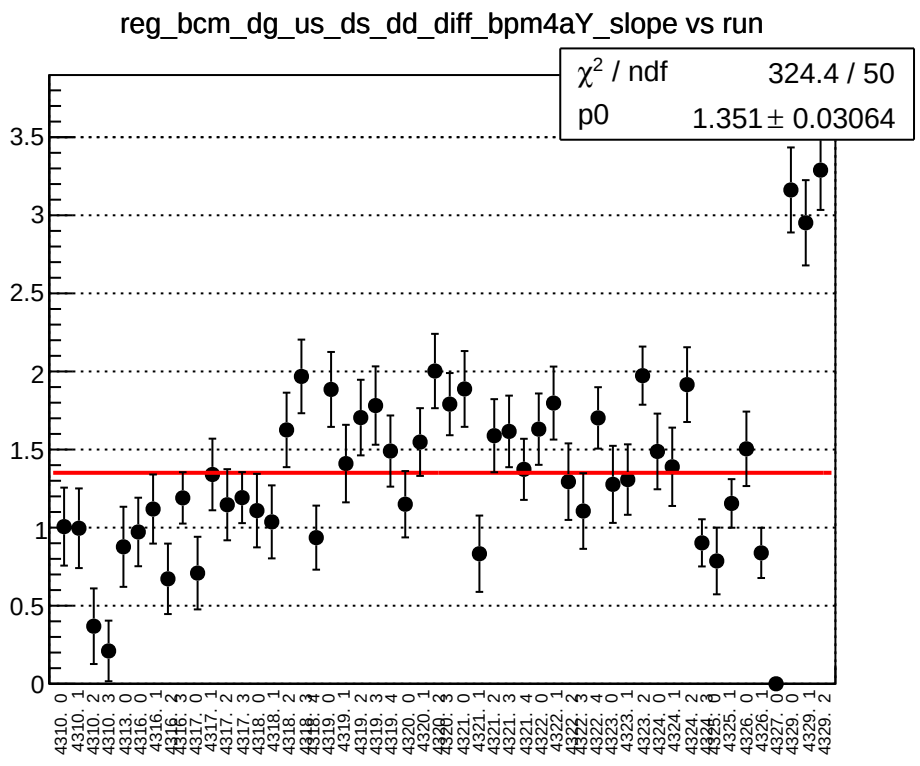

pull1D
Entries 52
Mean −0.5773
Std Dev 2.52
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

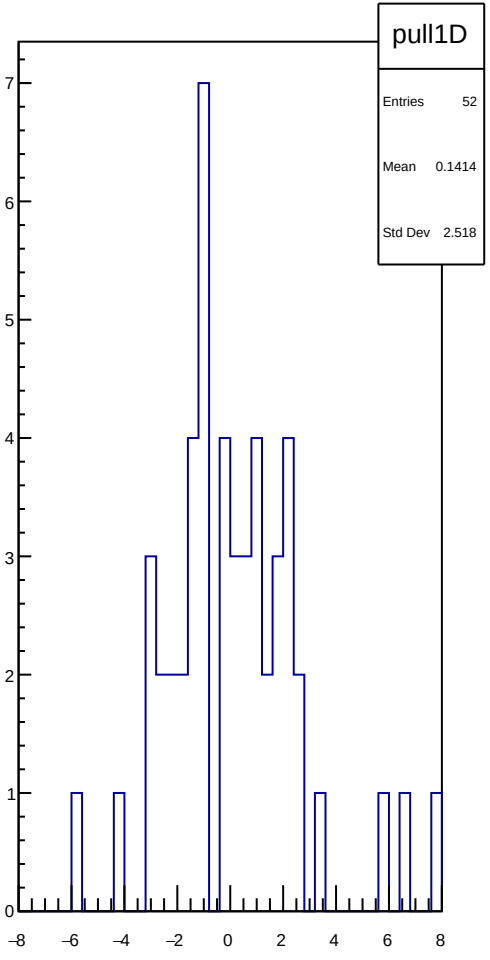

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 179.8 / 50
p0 −0.178 ± 0.006548
0
−0.1
−0.2
−0.3
−0.4

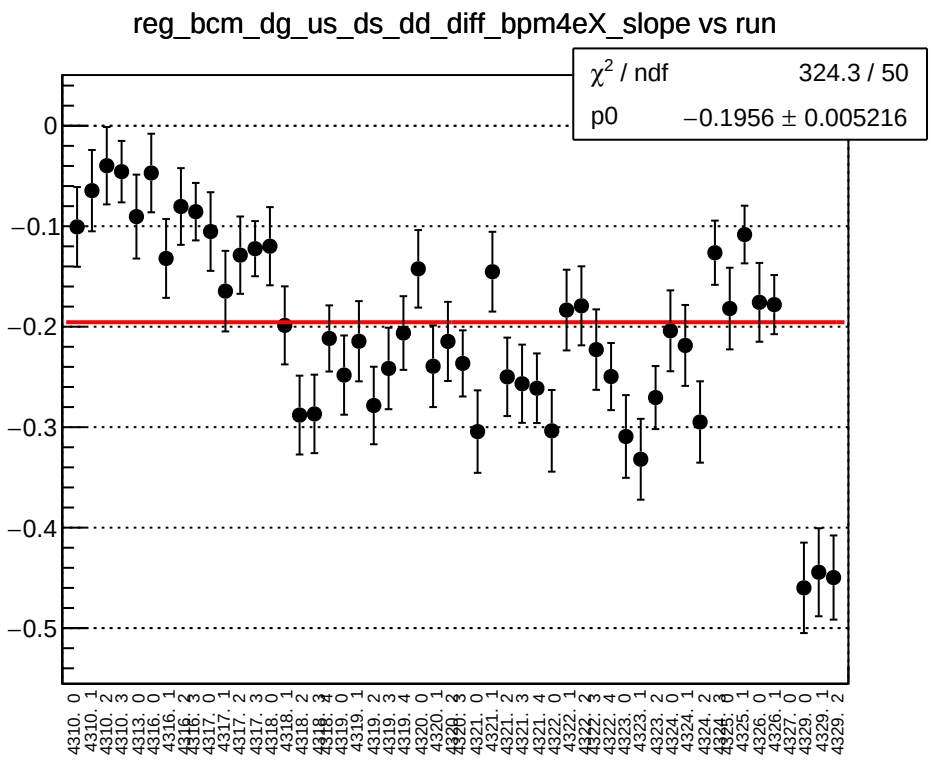

pull1D
Entries 52
Mean −0.1752
Std Dev 1.869
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

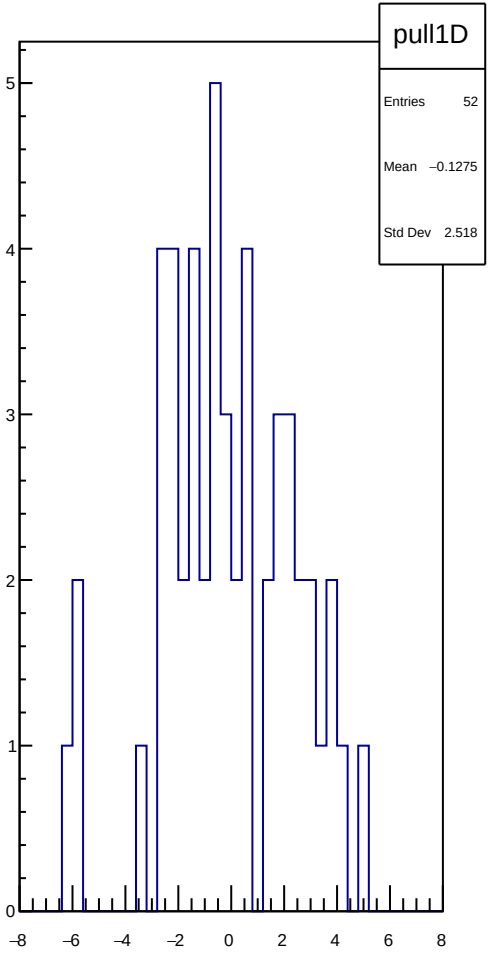

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 69.34 / 50
p0 0.4379 ± 0.03018
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

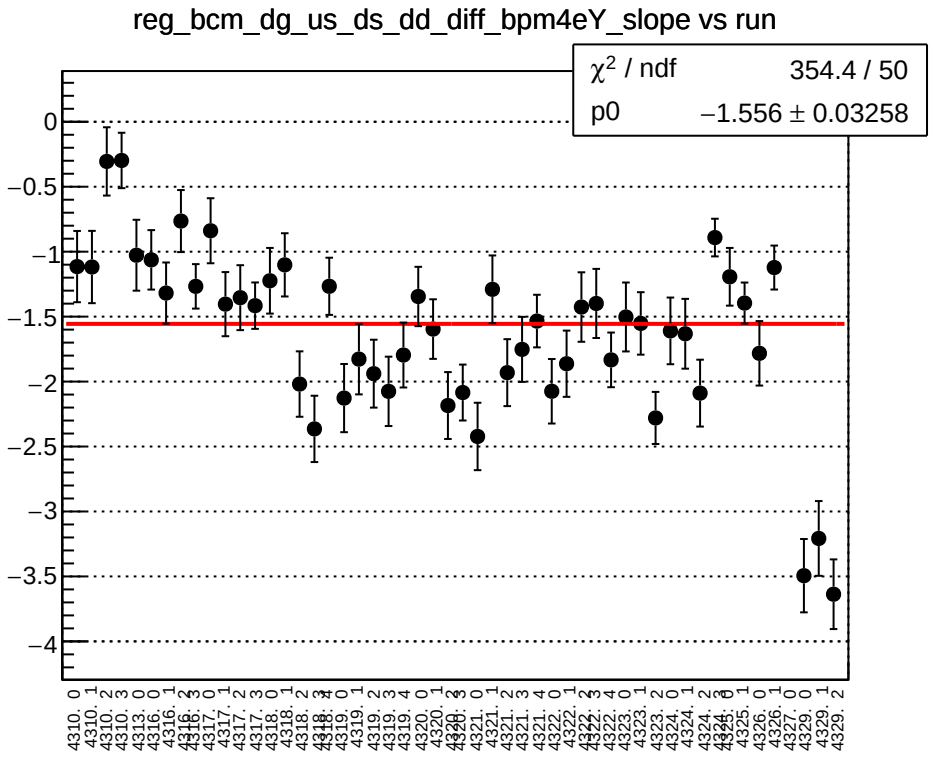

pull1D
Entries 52
Mean 0.05089
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 324.4 / 50
p0 1.351 ± 0.03064
3.5
3
2.5
2
1.5
1
0.5
0


pull1D
Entries 52
Mean 0.1414
Std Dev 2.518
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 324.3 / 50
p0 −0.1956 ± 0.005216
0
−0.1
−0.2
−0.3
−0.4
−0.5


pull1D
Entries 52
Mean −0.1275
Std Dev 2.518
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 354.4 / 50
p0 −1.556 ± 0.03258
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
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4324. 1
4324. 2
4324. 3
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4325. 1
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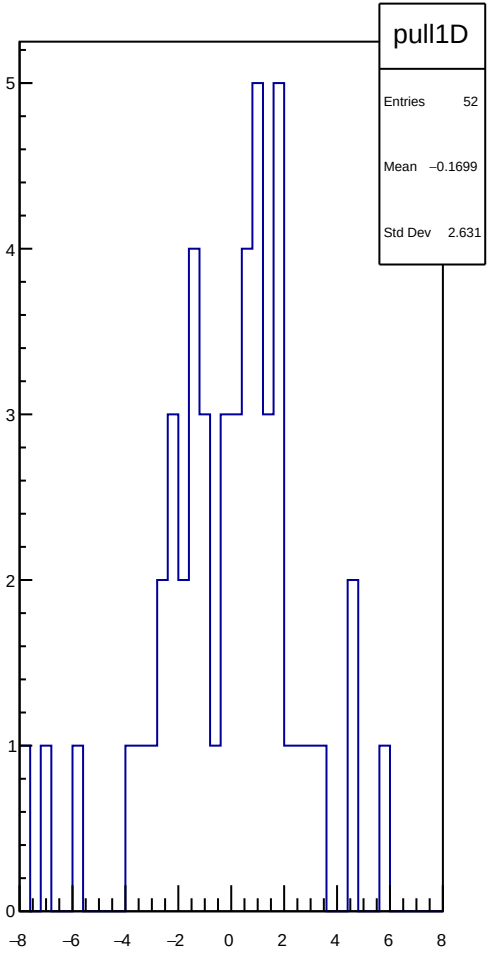
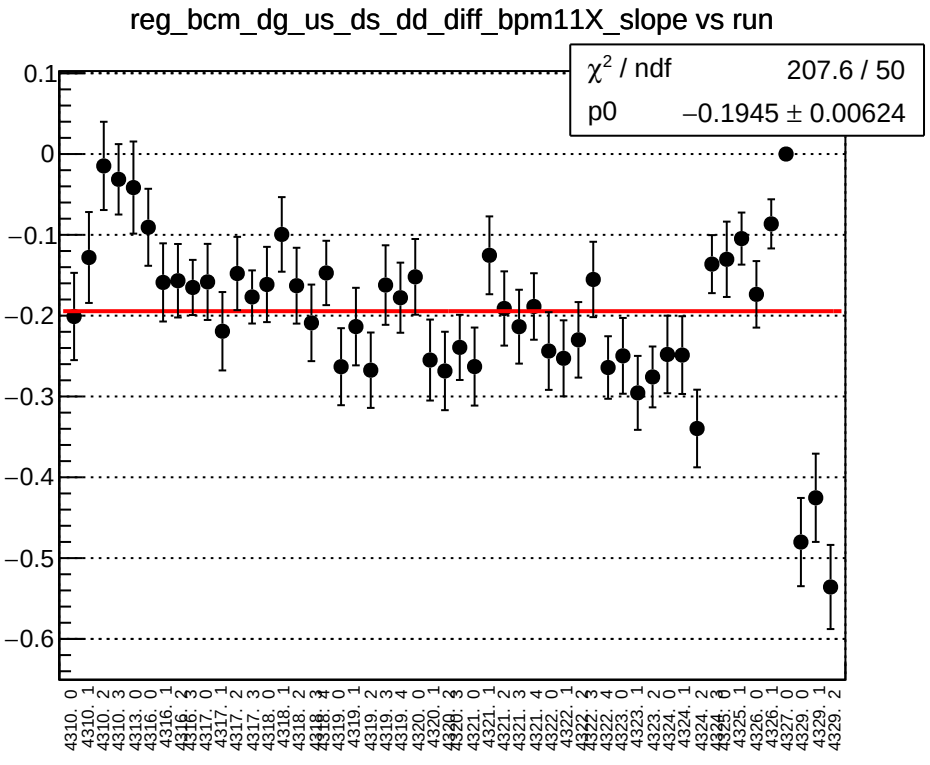
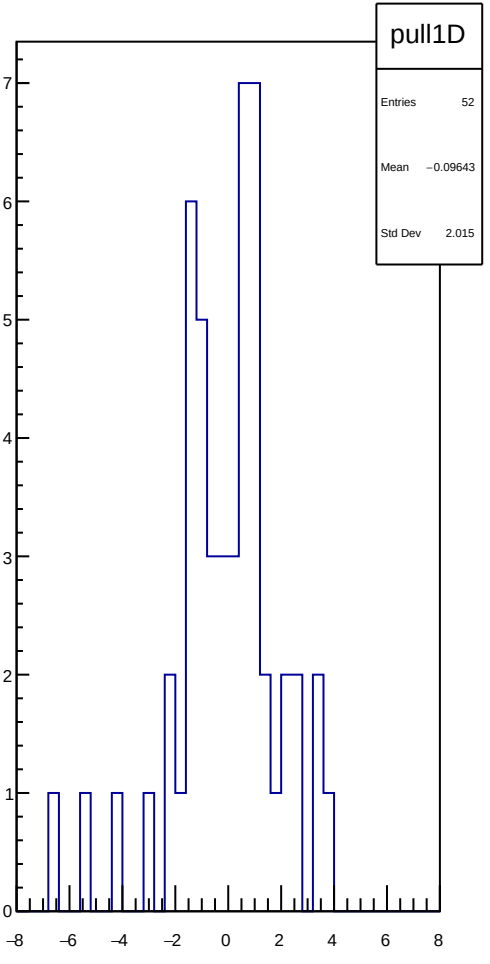
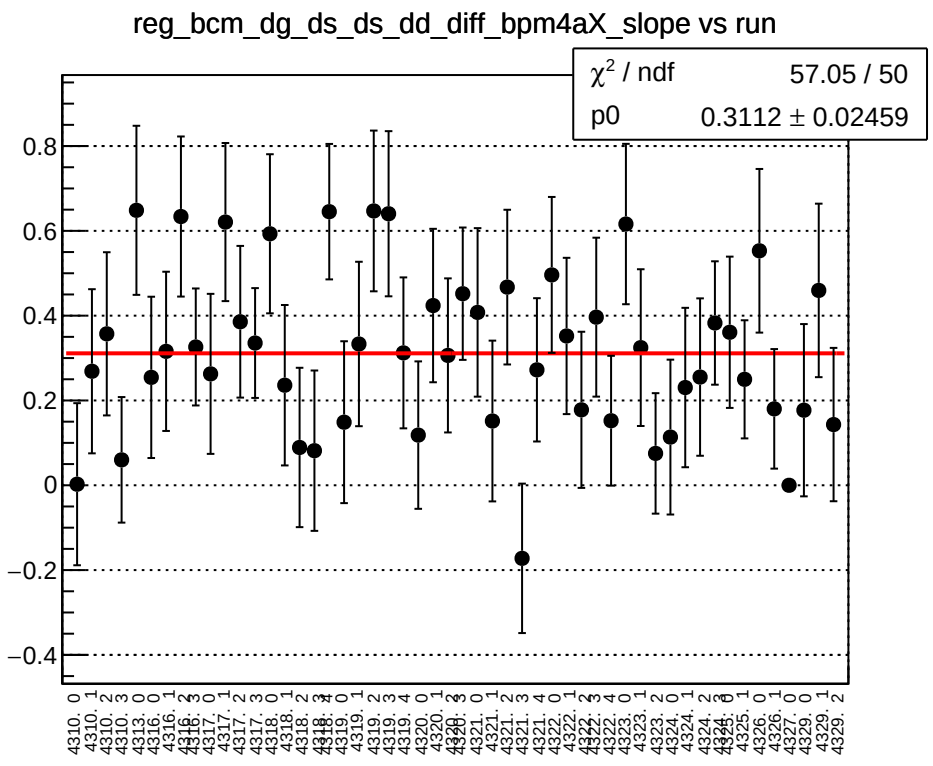
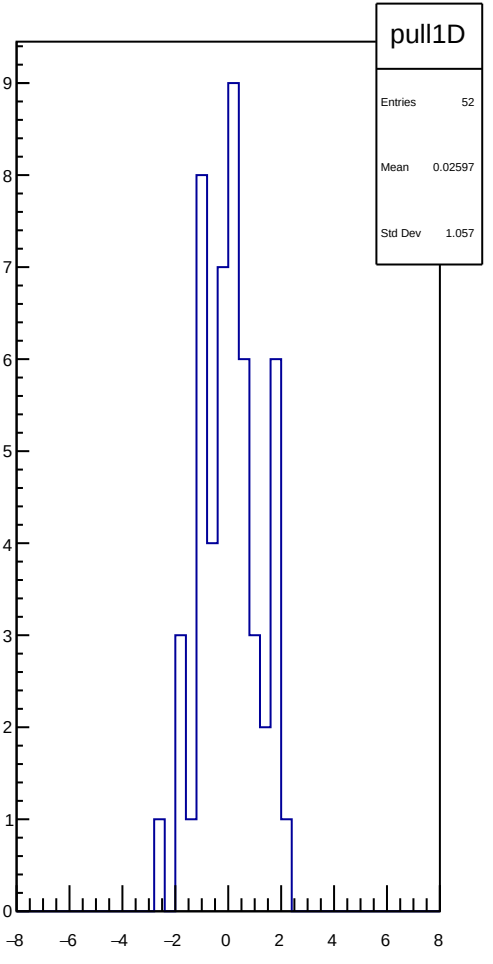
4329. 1
4329. 2

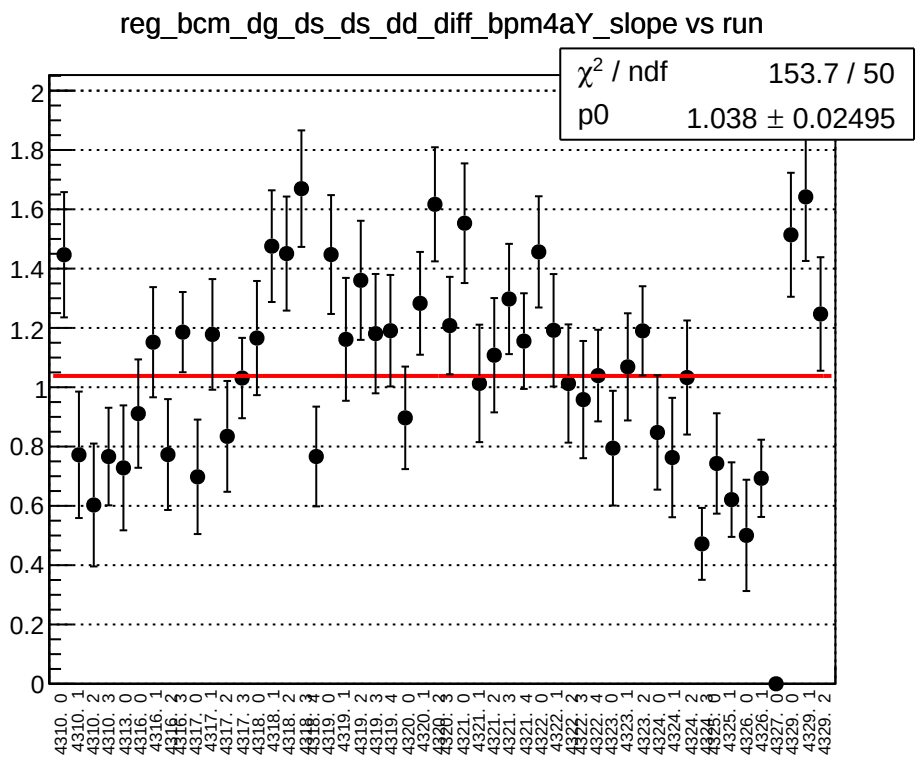

pull1D
Entries 52
Mean −0.1699
Std Dev 2.631
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

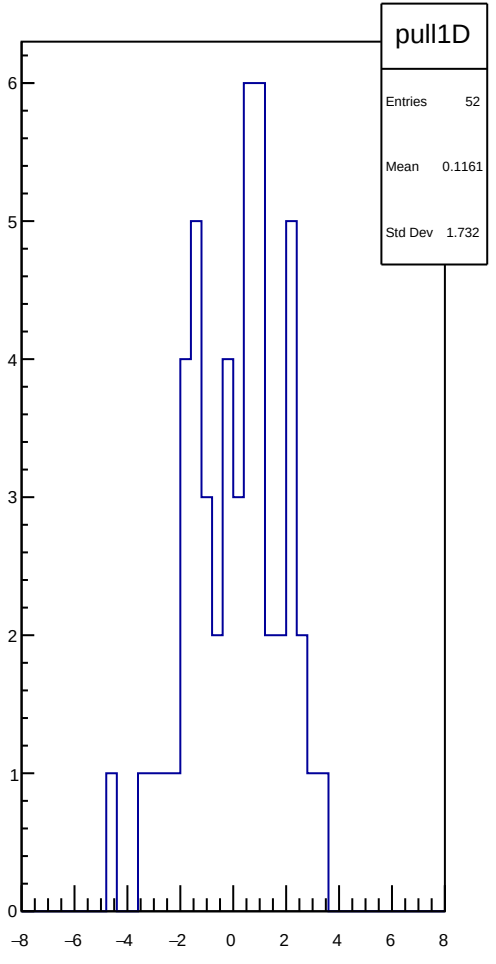

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 207.6 / 50
p0 −0.1945 ± 0.00624
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

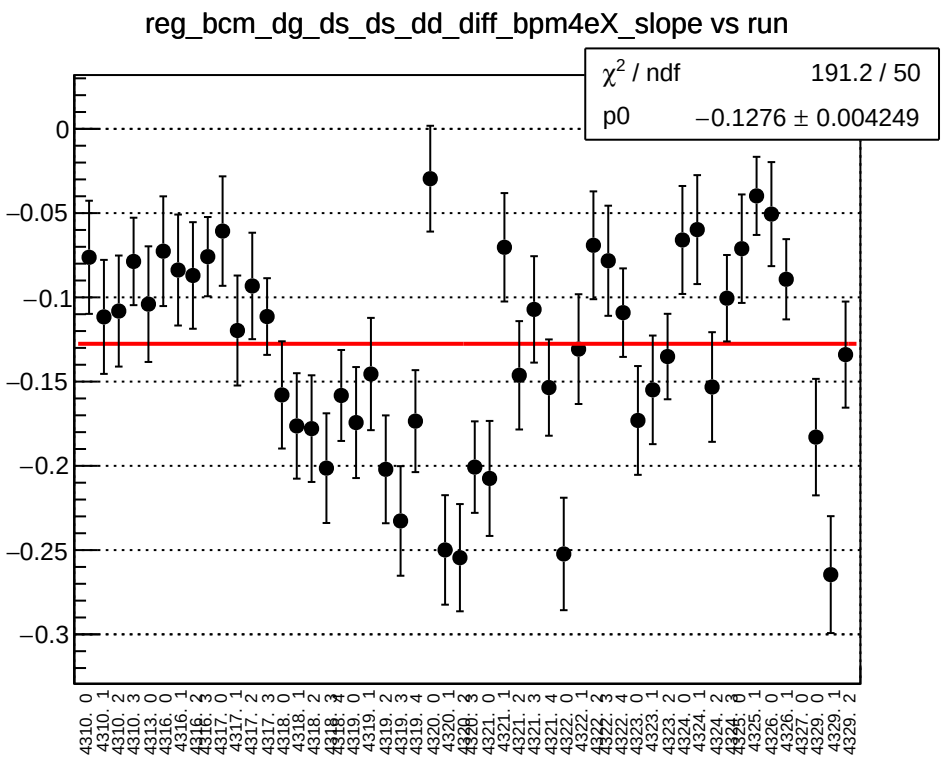

pull1D
Entries 52
Mean −0.09643
Std Dev 2.015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

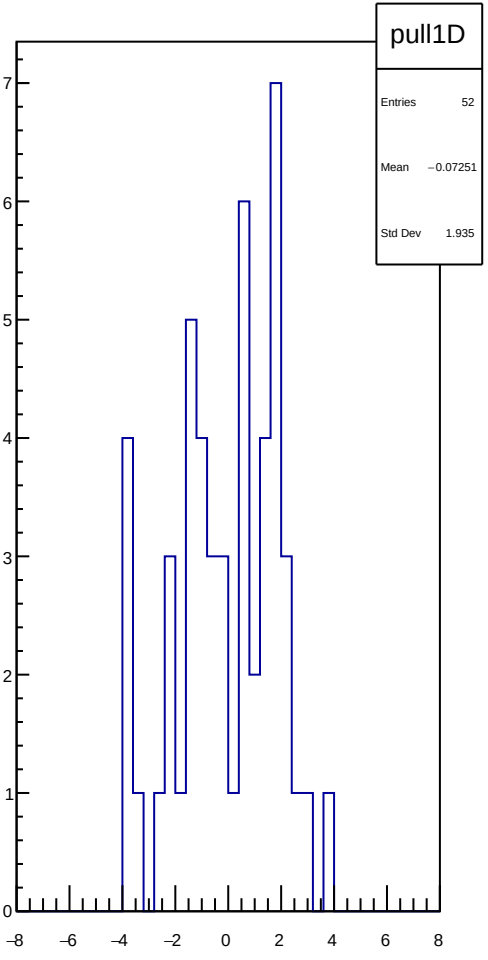

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.05 / 50
p0 0.3112 ± 0.02459
0.8
0.6
0.4
0.2
0
−0.2
−0.4
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2

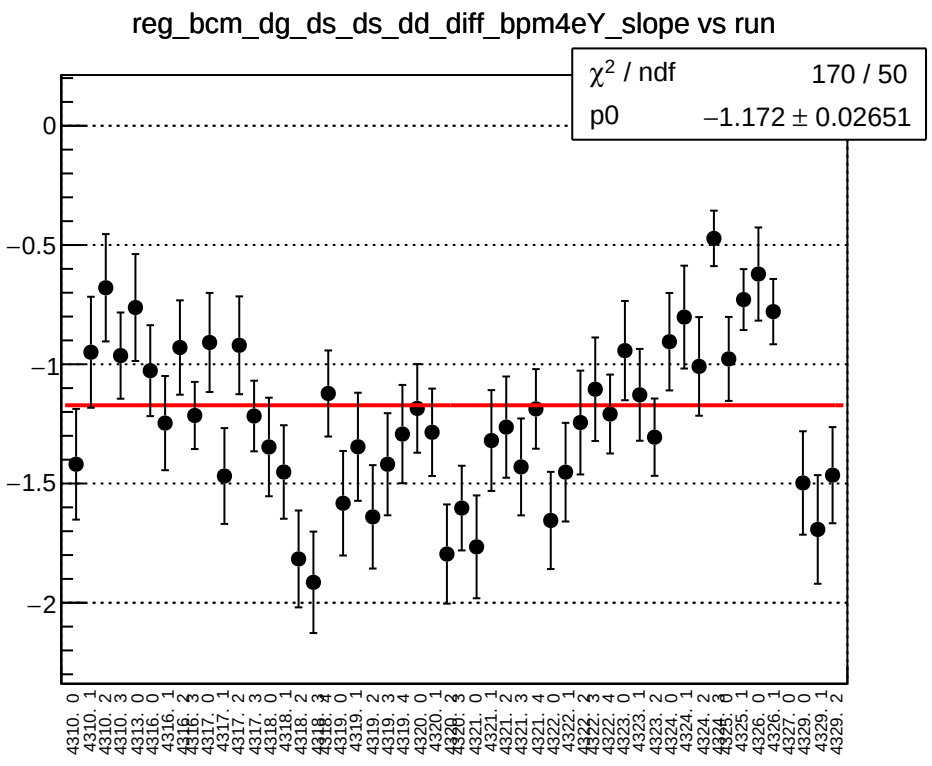

pull1D
Entries 52
Mean 0.02597
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

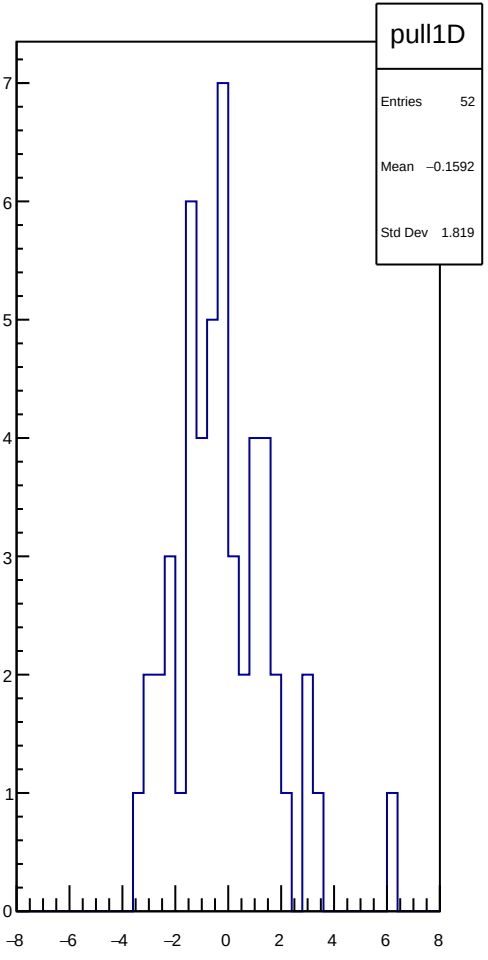

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 153.7 / 50
p0 1.038 ± 0.02495

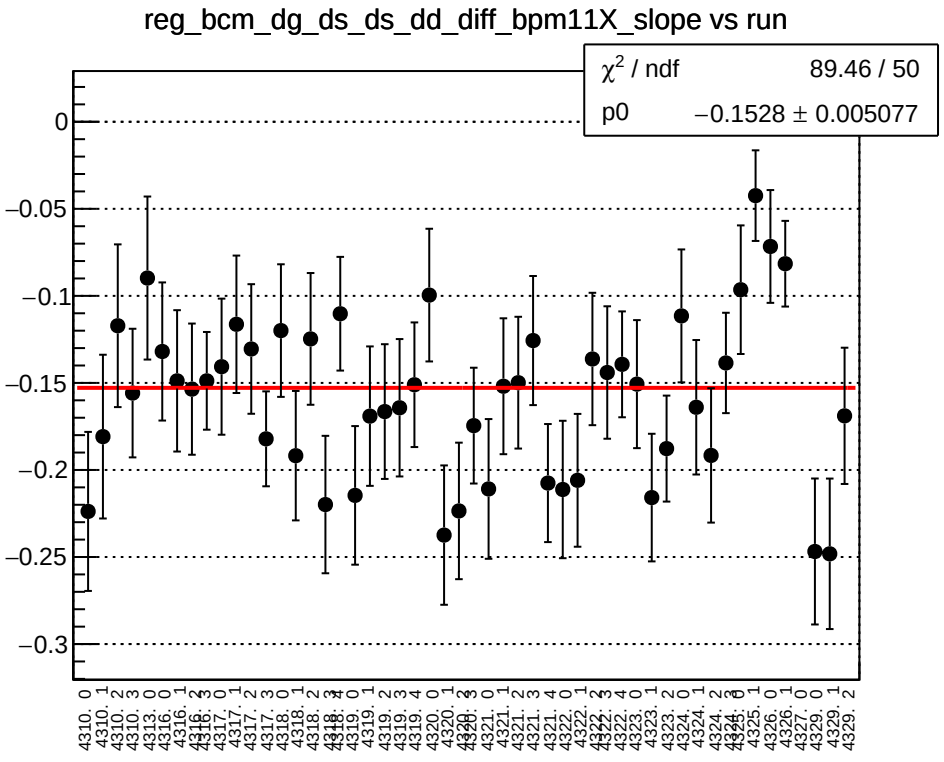

pull1D
Entries 52
Mean 0.1161
Std Dev 1.732

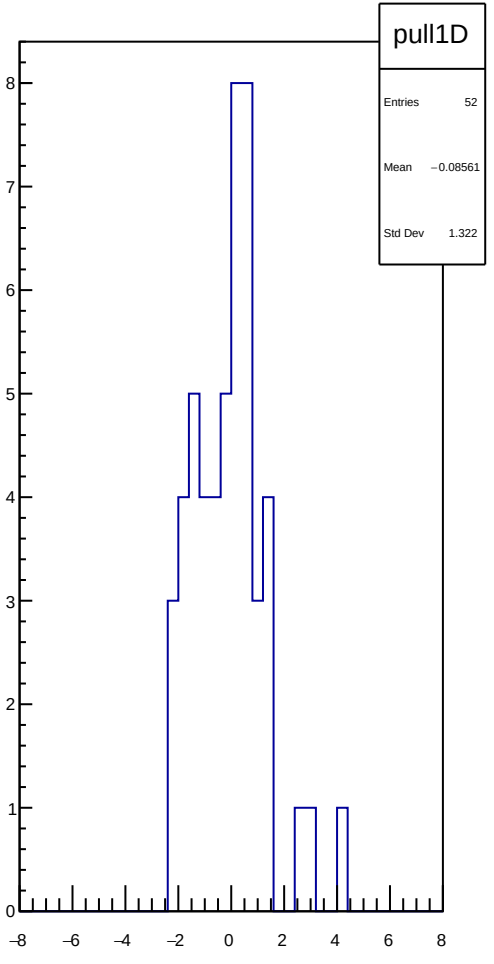

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 191.2 / 50
p0 −0.1276 ± 0.004249
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4326. 0
4326. 1
4327. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.07251
Std Dev 1.935
7
6
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 170 / 50
p0 −1.172 ± 0.02651
0
−0.5
−1
−1.5
−2
4310. 0
4310. 1
4310. 2
4310. 3
4313. 0
4316. 0
4316. 1
4316. 2
4316. 3
4317. 0
4317. 1
4317. 2
4317. 3
4318. 0
4318. 1
4318. 2
4318. 3
4318. 4
4319. 0
4319. 1
4319. 2
4319. 3
4319. 4
4320. 0
4320. 1
4320. 2
4320. 3
4321. 0
4321. 1
4321. 2
4321. 3
4321. 4
4322. 0
4322. 1
4322. 2
4322. 3
4322. 4
4323. 0
4323. 1
4323. 2
4324. 0
4324. 1
4324. 2
4324. 3
4324. 4
4325. 0
4325. 1
4326. 0
4326. 1
4327. 0
4329. 0
4329. 1
4329. 2


pull1D
Entries 52
Mean −0.1592
Std Dev 1.819
0
1
2
3
4
5
6
7
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 89.46 / 50
p0 −0.1528 ± 0.005077
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3


pull1D
Entries 52
Mean −0.08561
Std Dev 1.322
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8