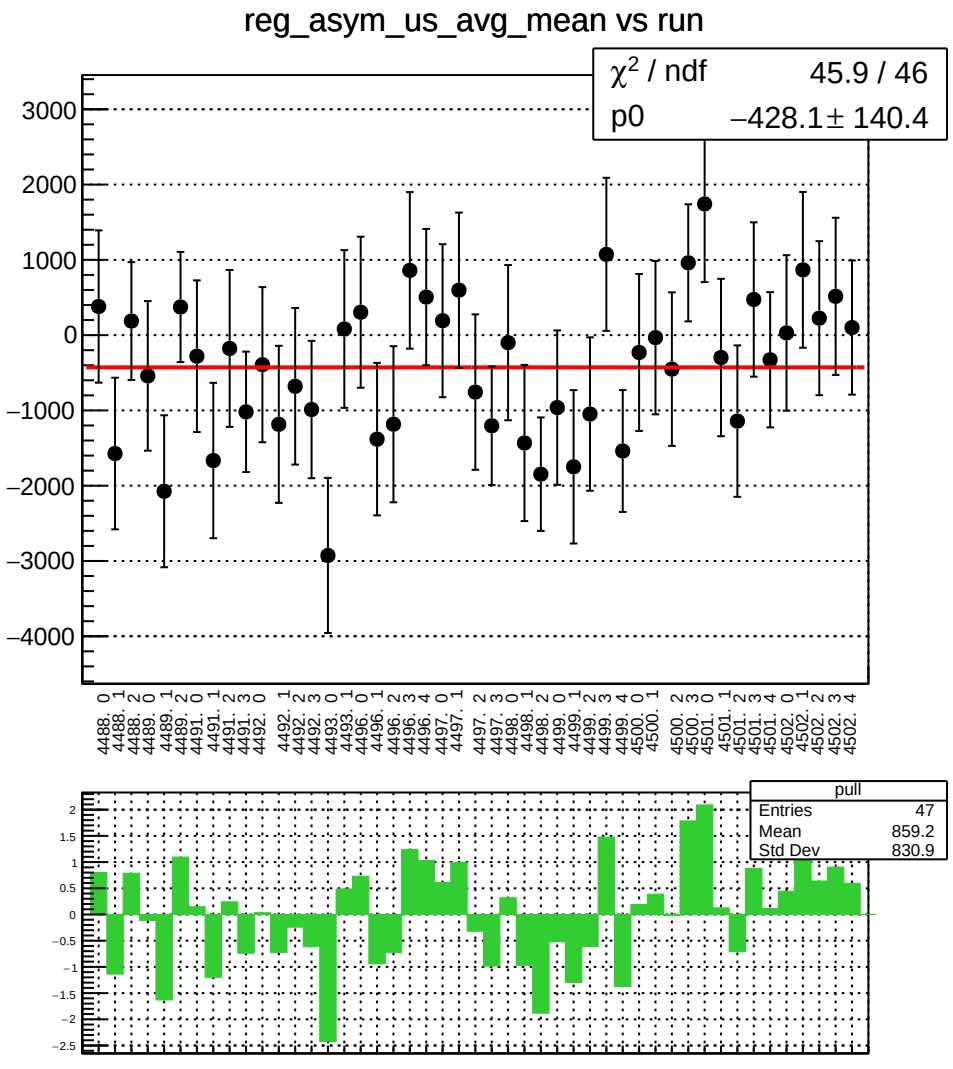
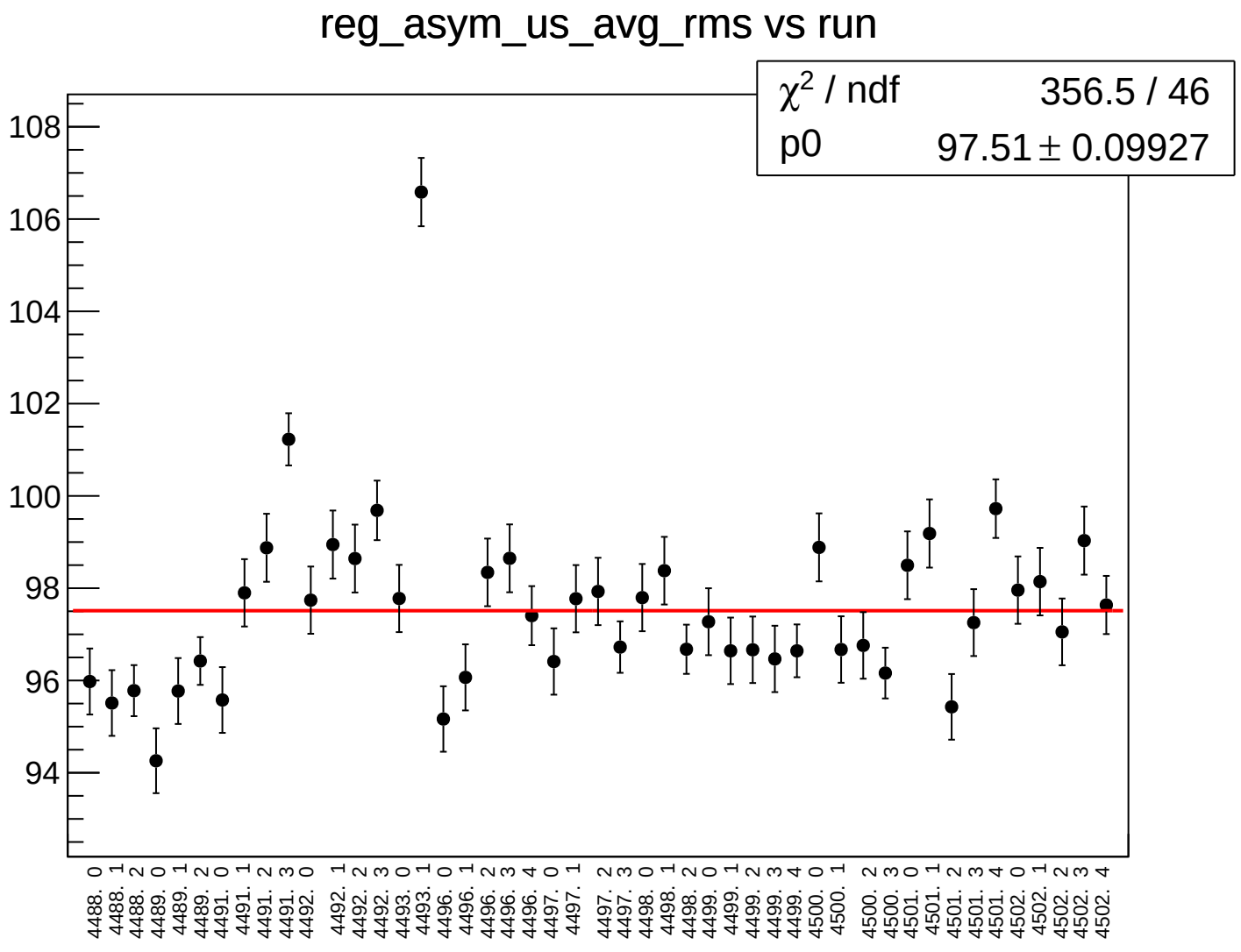
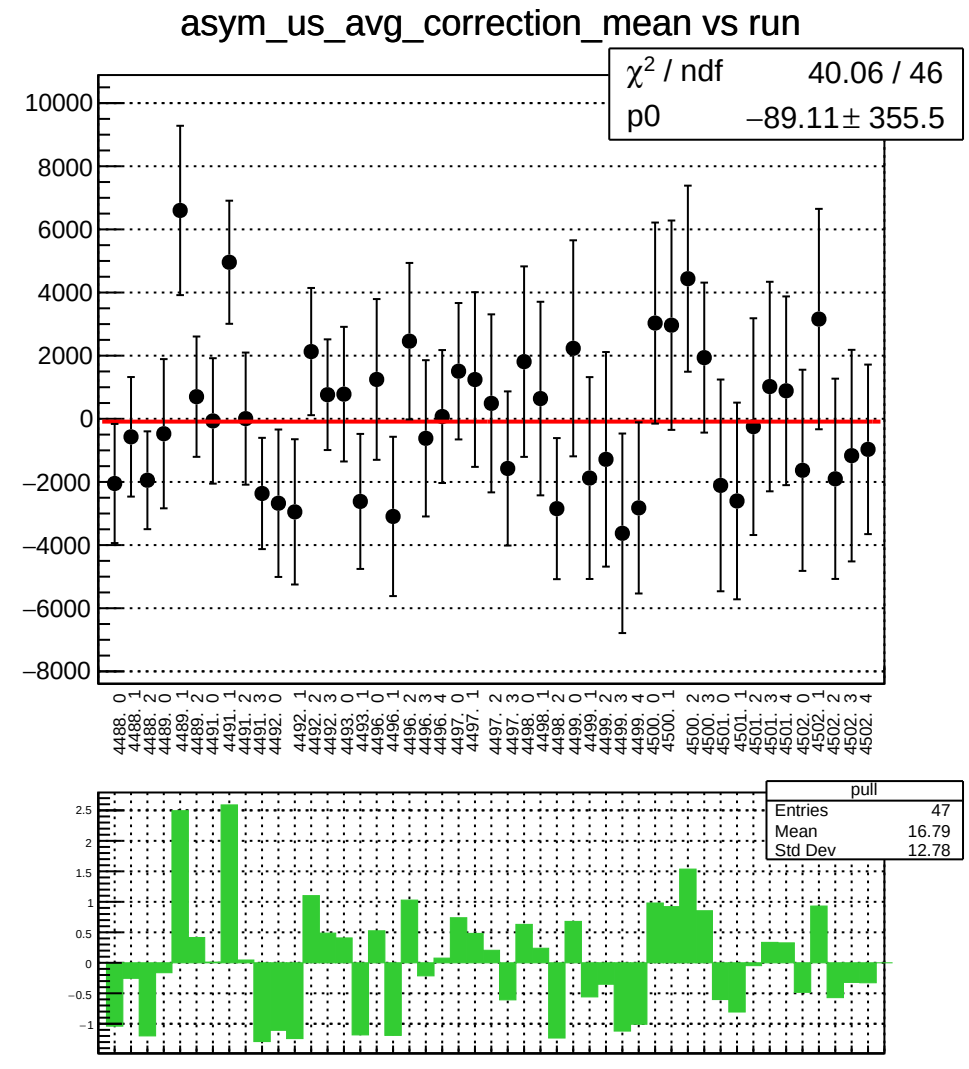
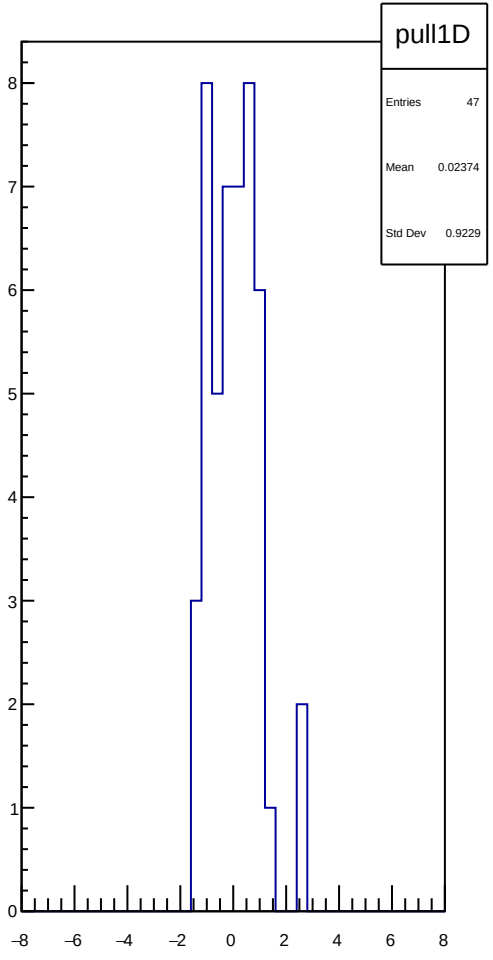
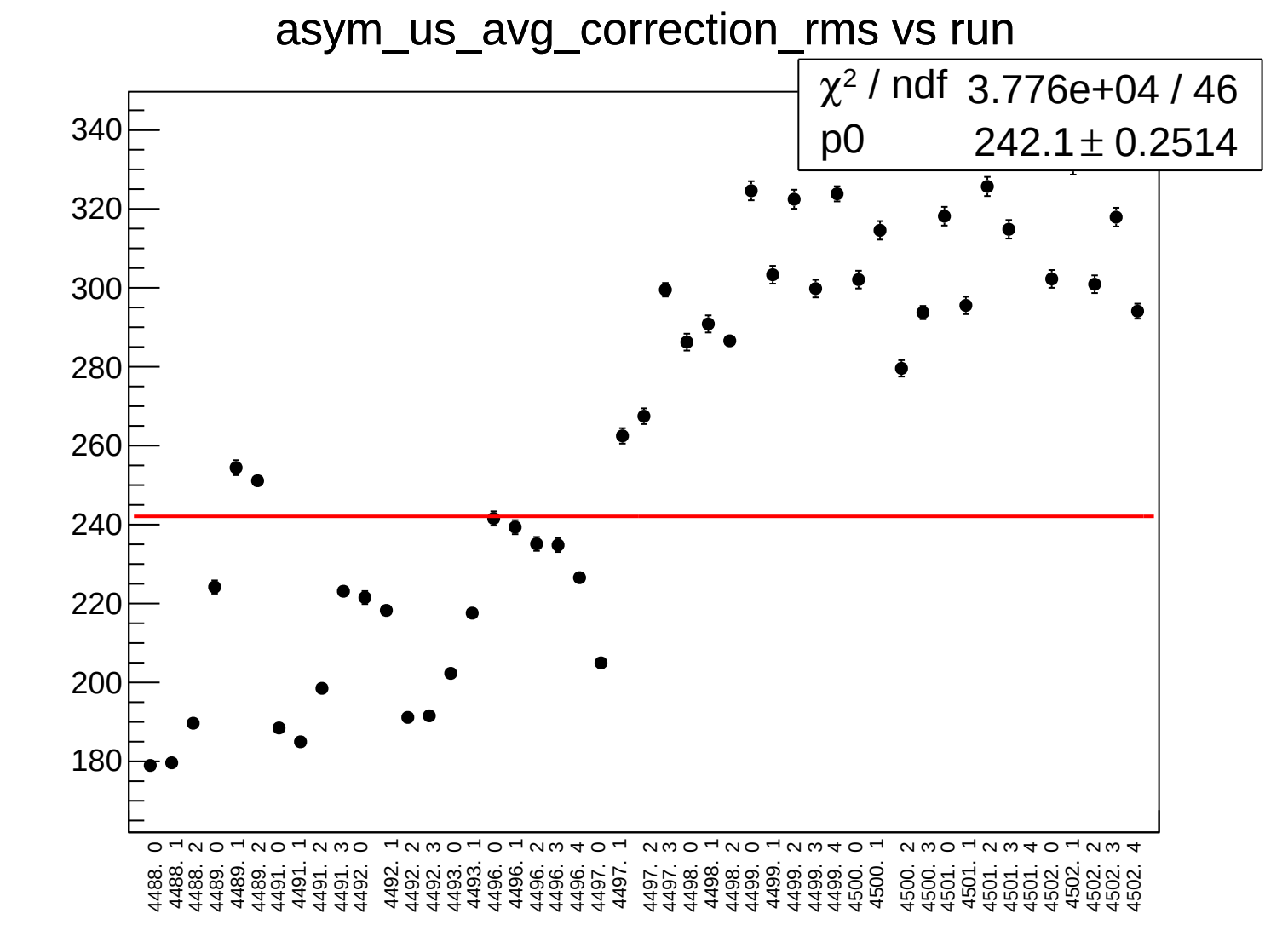
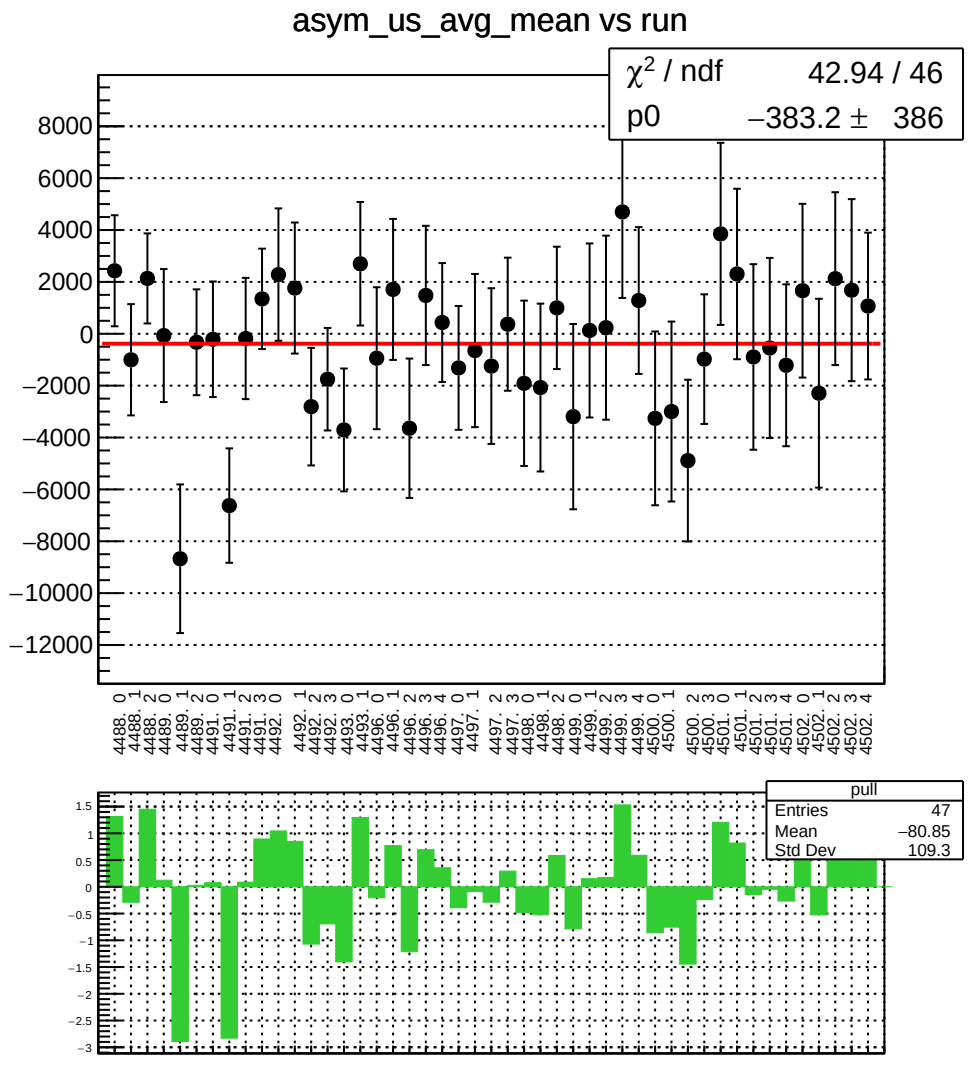

reg_asym_us_avg_mean vs run
χ² / ndf 45.9 / 46
p0 −428.1± 140.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 859.2
Std Dev 830.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean 0.004487
Std Dev 0.9883
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

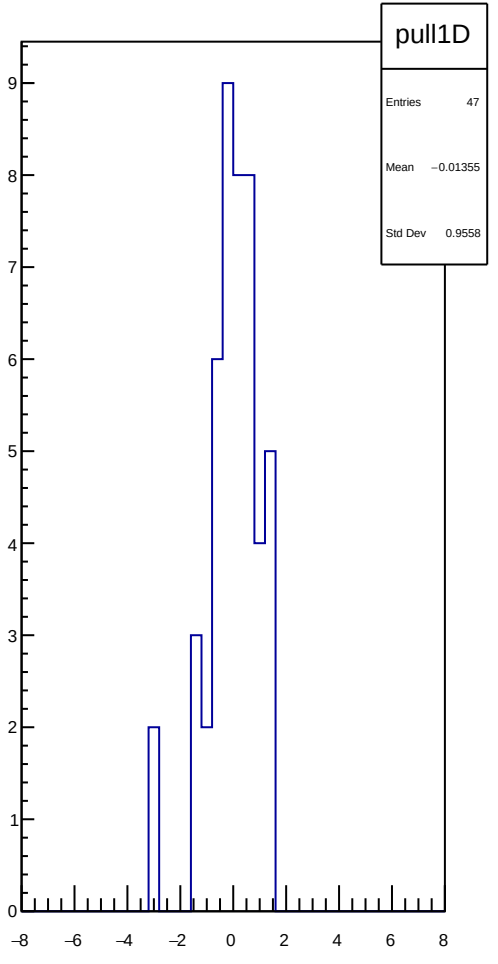

reg_asym_us_avg_rms vs run
χ² / ndf 356.5 / 46
p0 97.51 ± 0.09927
108
106
104
102
100
98
96
94
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

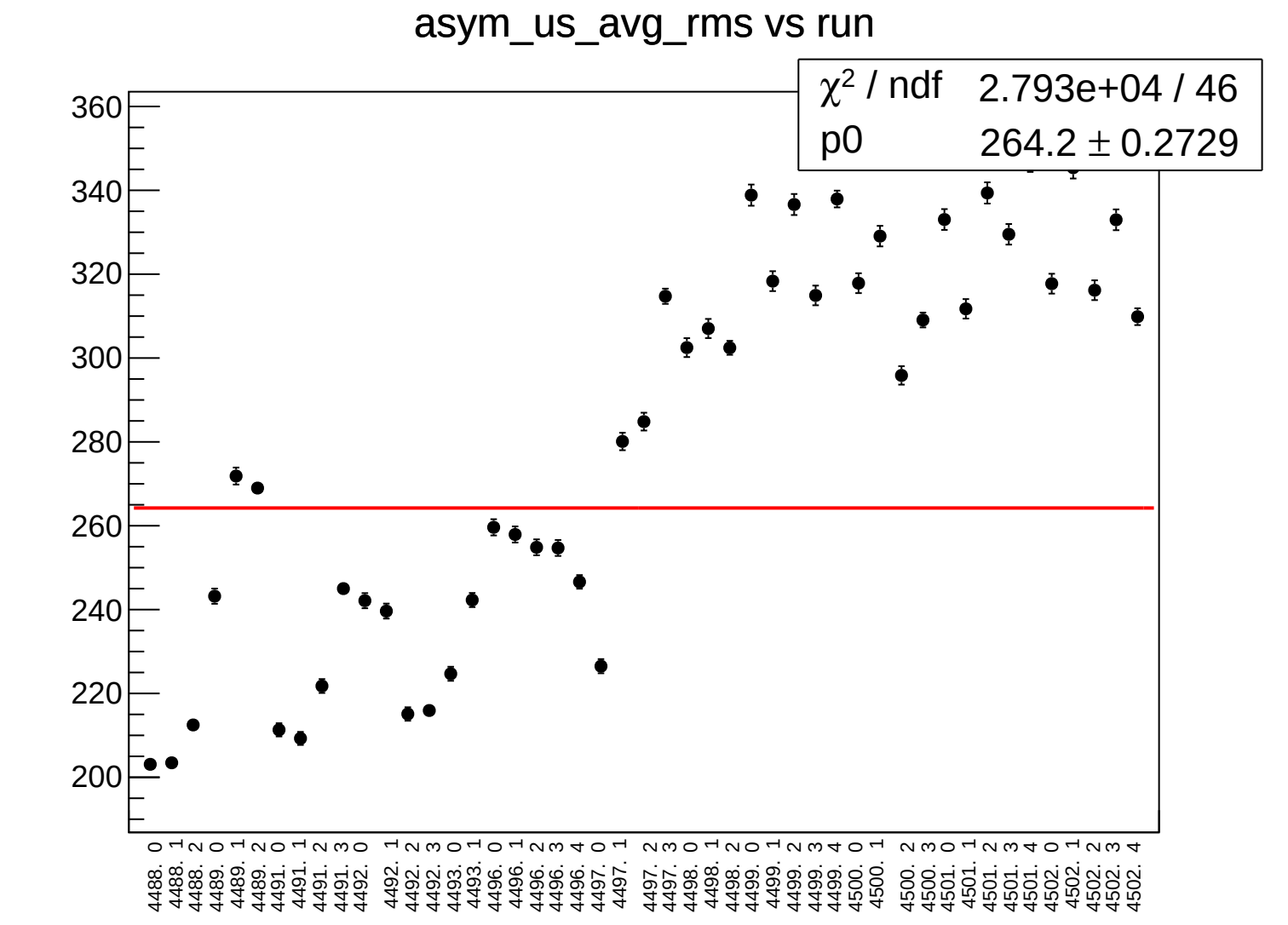

asym_us_avg_correction_mean vs run
χ² / ndf 40.06 / 46
p0 −89.11± 355.5
pull
Entries 47
Mean 16.79
Std Dev 12.78

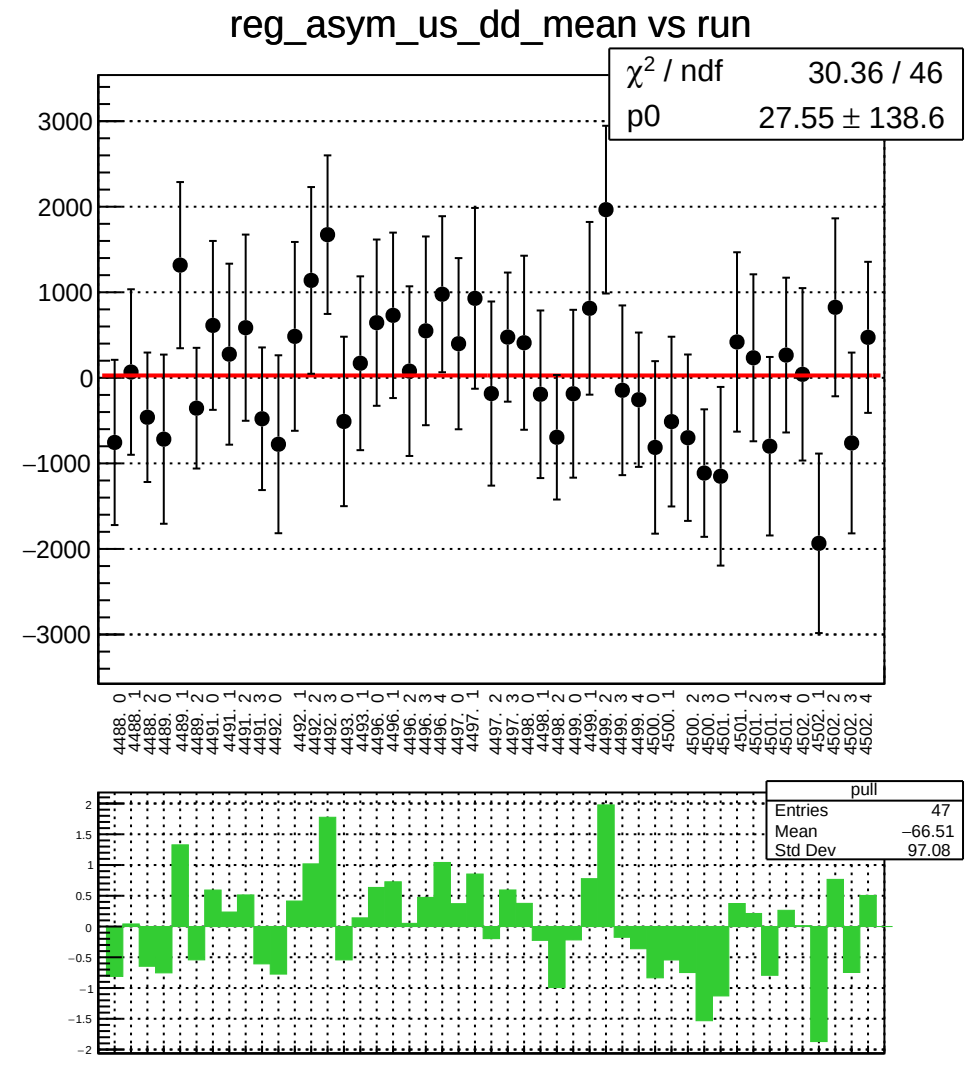

pull1D
Entries 47
Mean 0.02374
Std Dev 0.9229

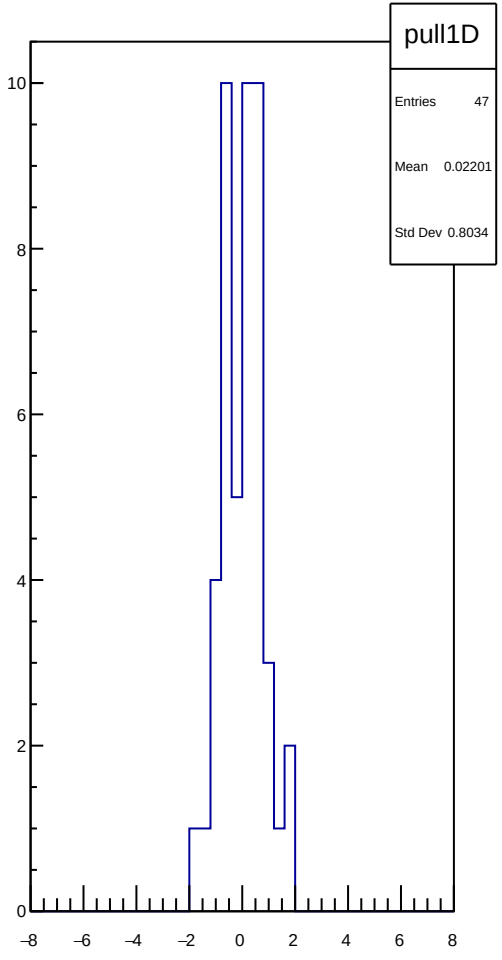

asym_us_avg_correction_rms vs run
χ² / ndf 3.776e+04 / 46
p0 242.1 ± 0.2514
340
320
300
280
260
240
220
200
180
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

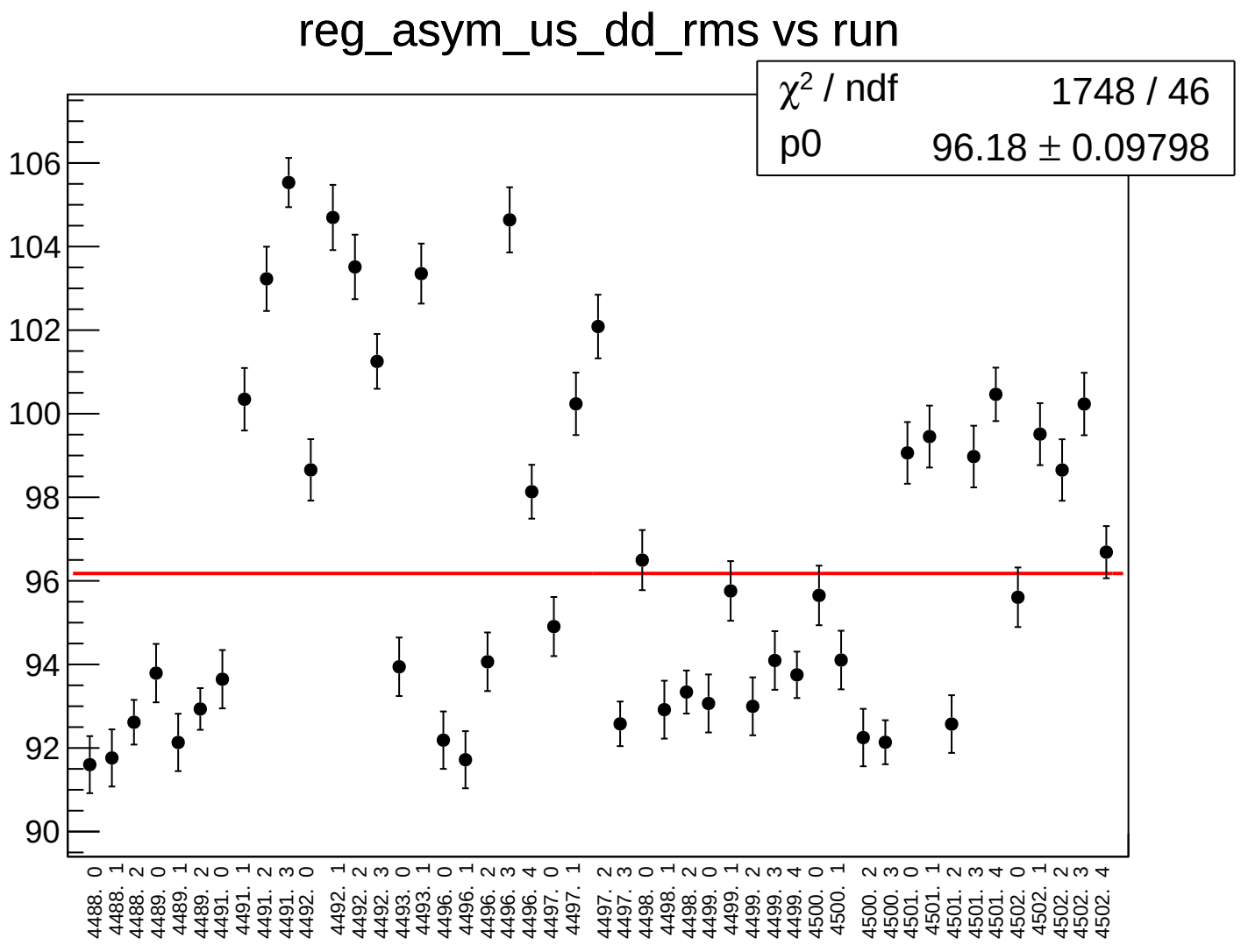

asym_us_avg_mean vs run
χ² / ndf 42.94 / 46
p0 −383.2 ± 386
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −80.85
Std Dev 109.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

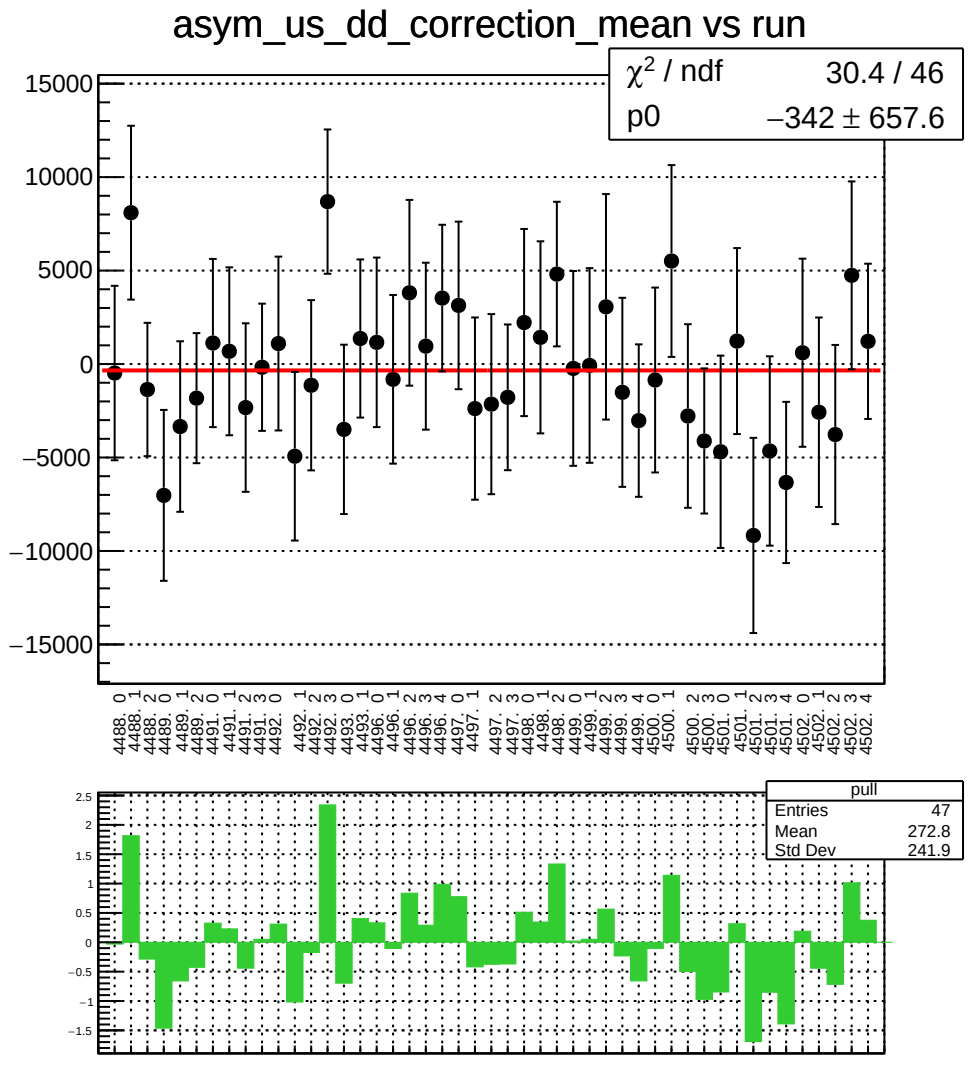

pull1D
Entries 47
Mean −0.01355
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

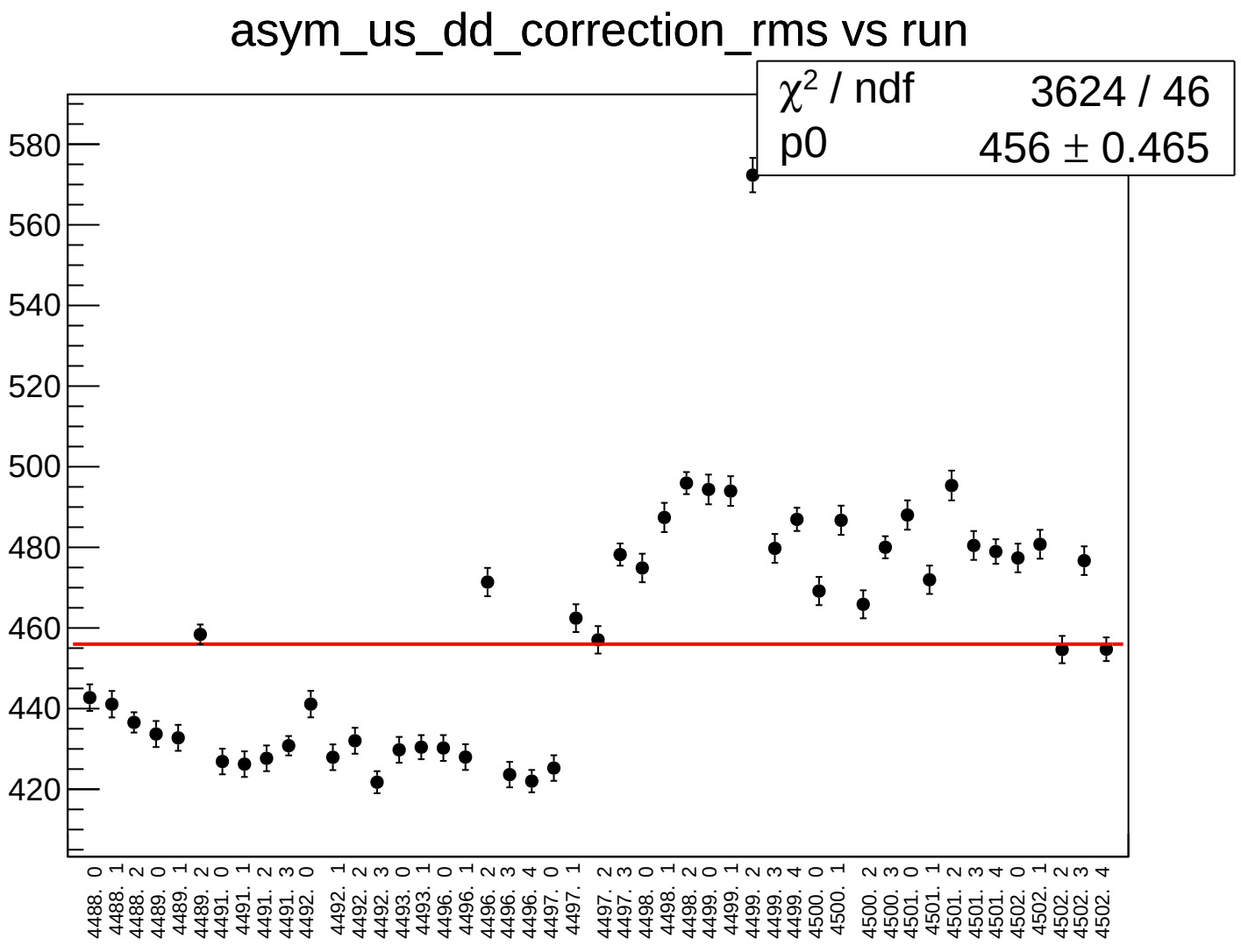

asym_us_avg_rms vs run
χ² / ndf 2.793e+04 / 46
p0 264.2 ± 0.2729
360
340
320
300
280
260
240
220
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

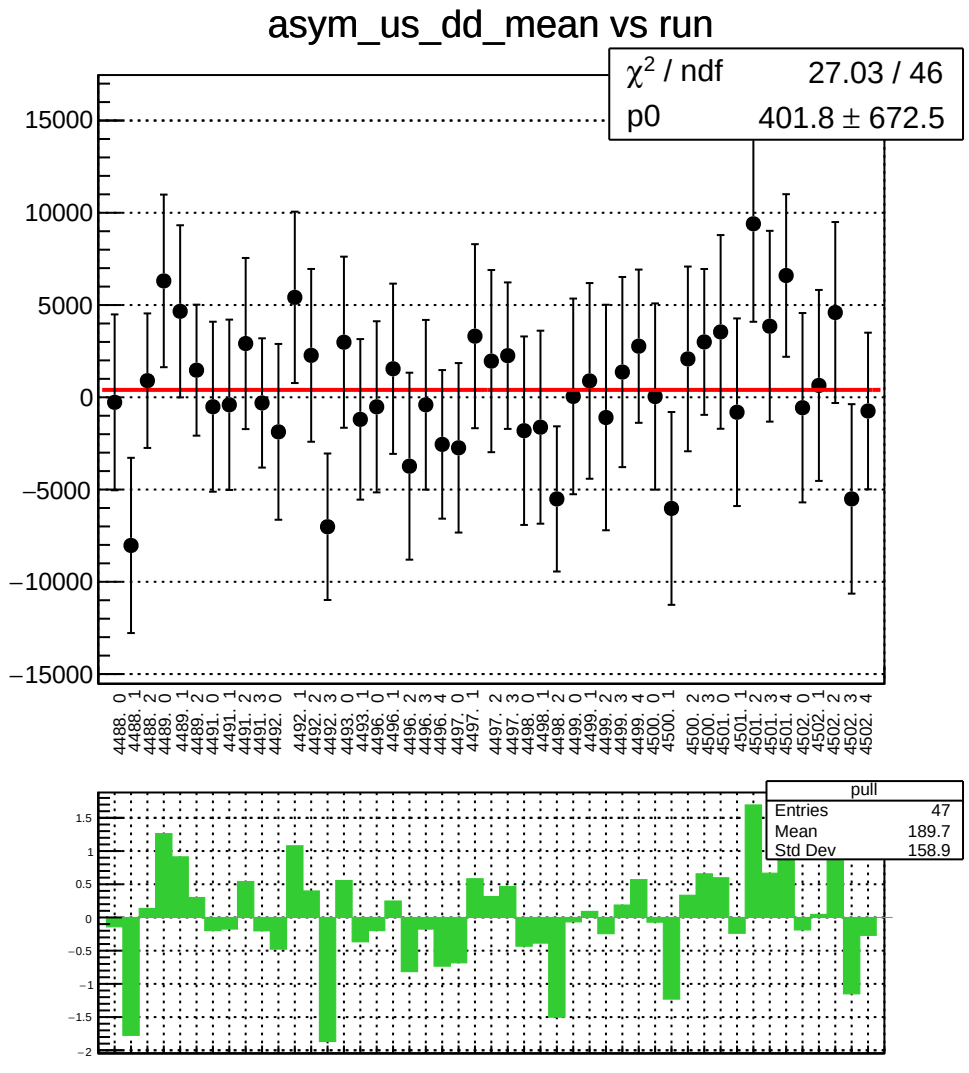

reg_asym_us_dd_mean vs run
χ^2 / ndf 30.36 / 46
p0 27.55 ± 138.6
3000
2000
1000
0
−1000
−2000
−3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −66.51
Std Dev 97.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

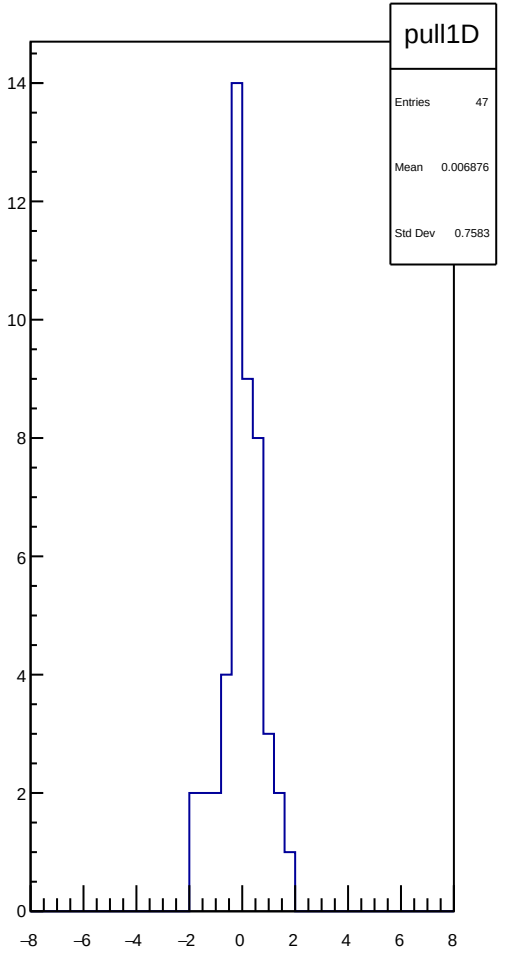

pull1D
Entries 47
Mean 0.02201
Std Dev 0.8034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

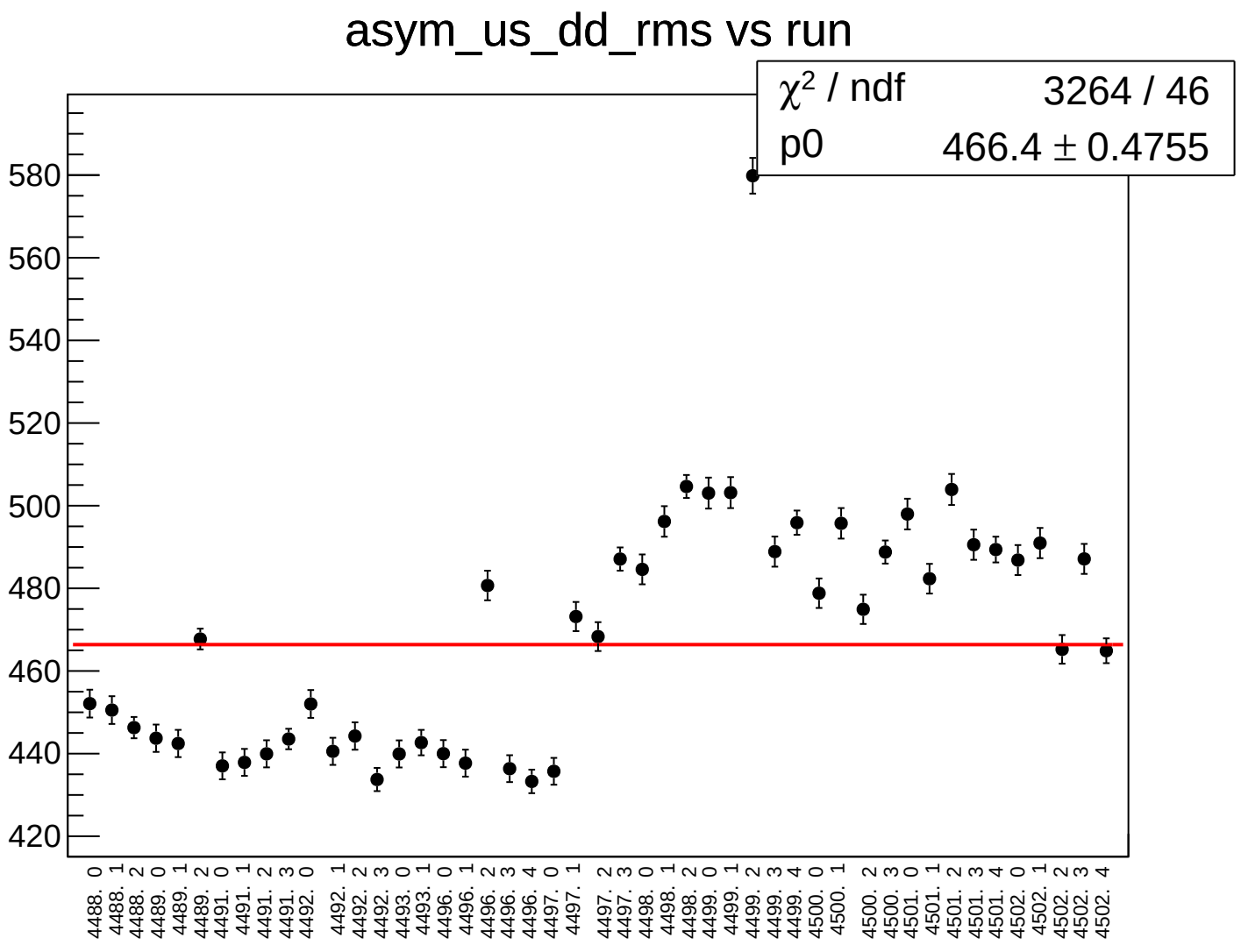

reg_asym_us_dd_rms vs run
χ² / ndf 1748 / 46
p0 96.18 ± 0.09798
106
104
102
100
98
96
94
92
90
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

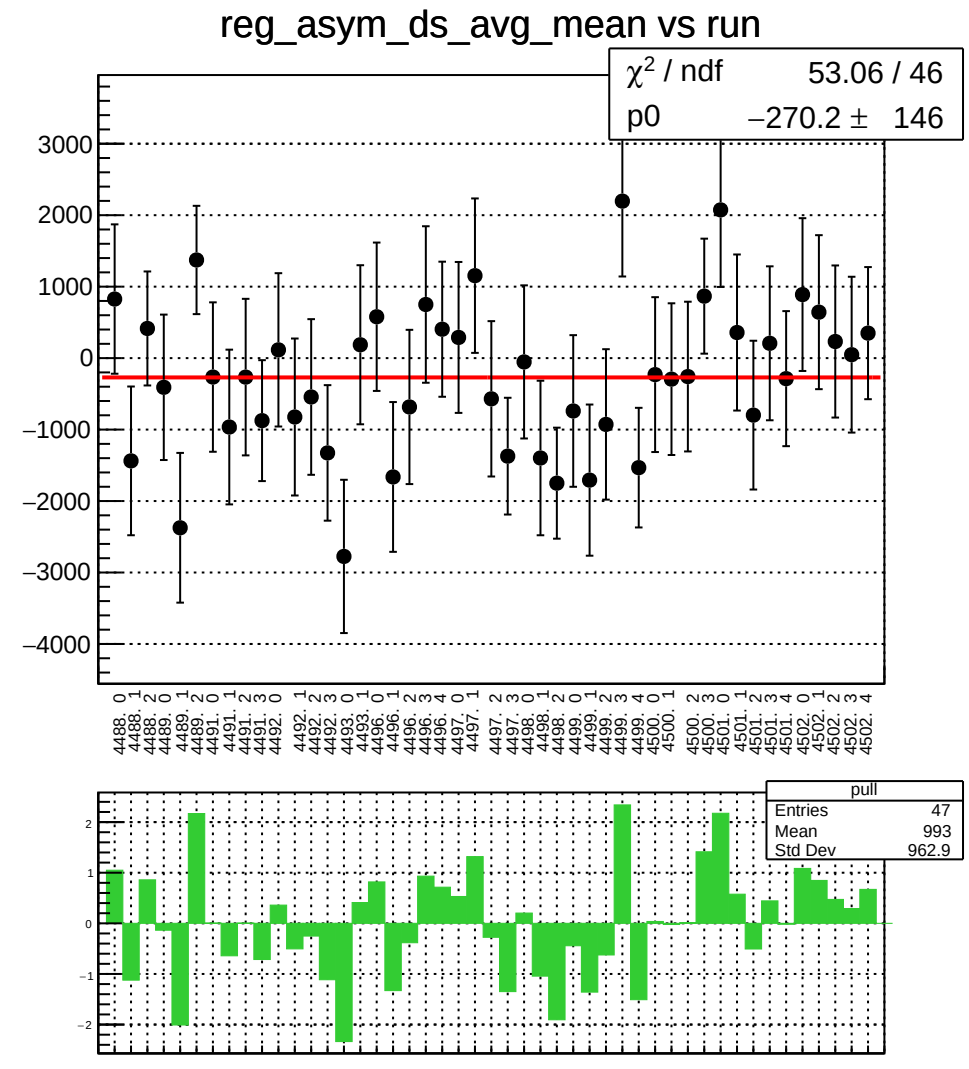

asym_us_dd_correction_mean vs run
χ² / ndf 30.4 / 46
p0 −342 ± 657.6
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 272.8
Std Dev 241.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.006397
Std Dev 0.8043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

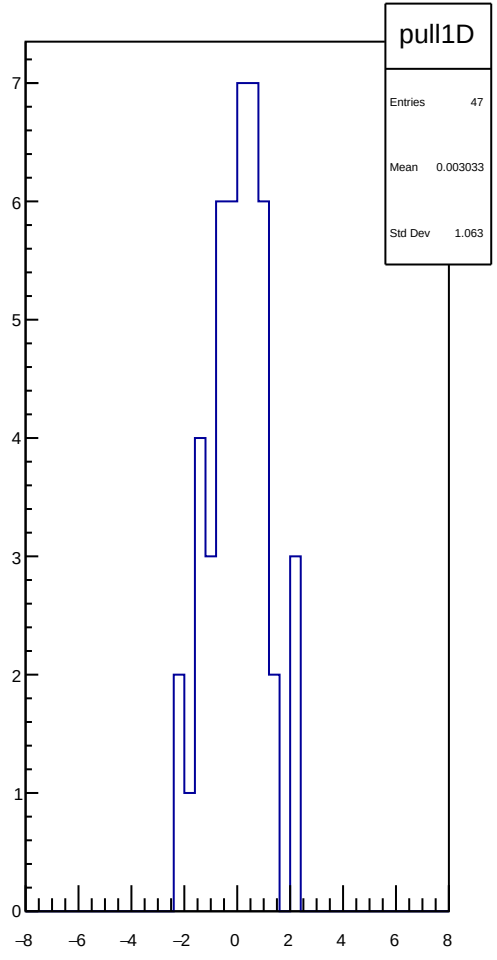

asym_us_dd_correction_rms vs run
χ² / ndf 3624 / 46
p0 456 ± 0.465
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

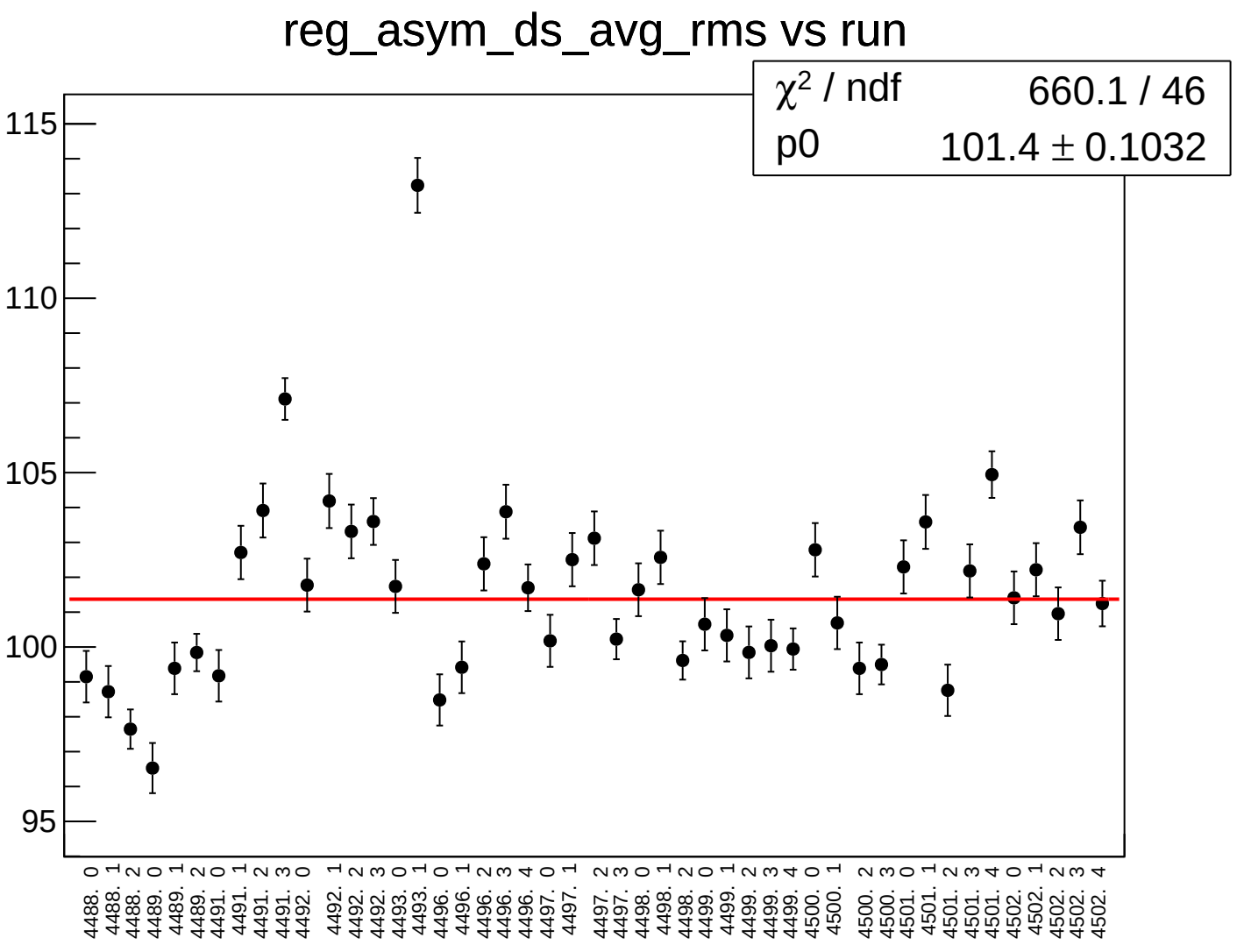

asym_us_dd_mean vs run
χ² / ndf 27.03 / 46
p0 401.8 ± 672.5
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 189.7
Std Dev 158.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

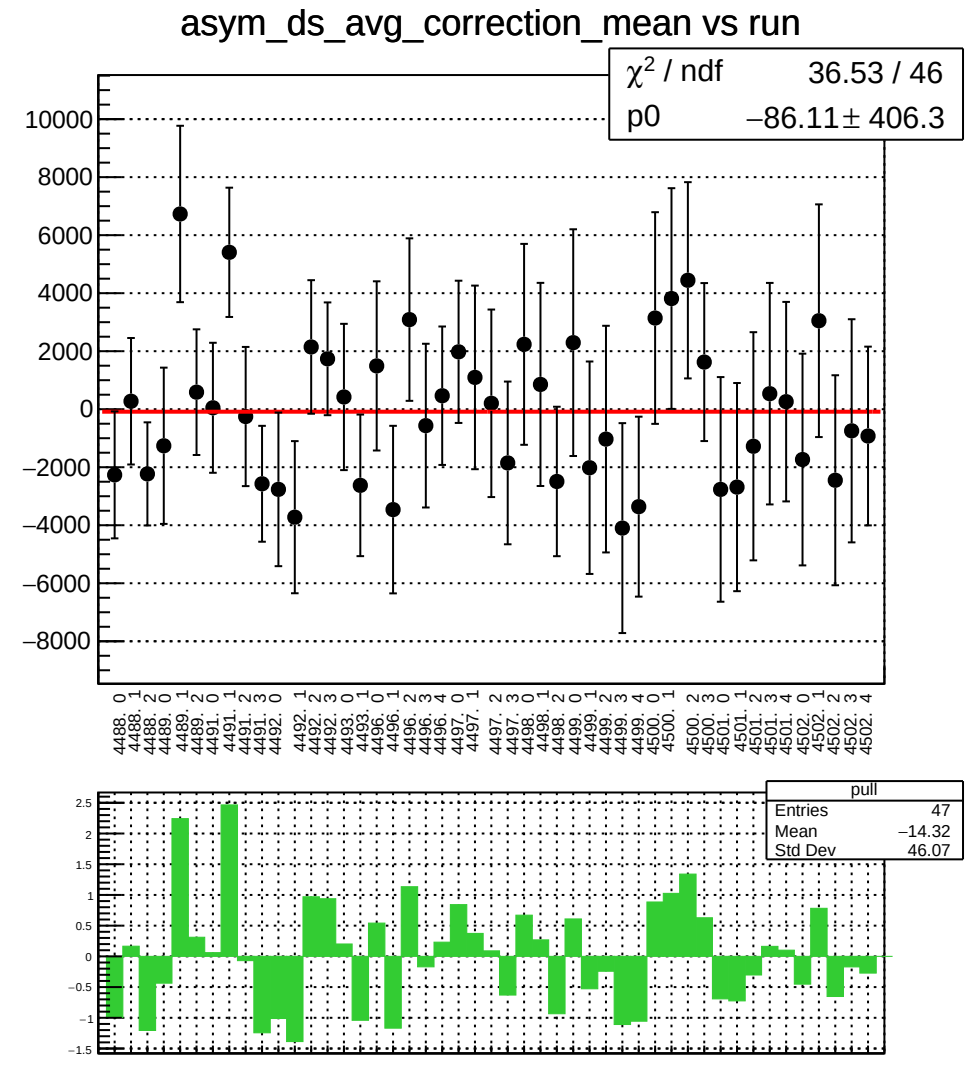

pull1D
Entries 47
Mean 0.006876
Std Dev 0.7583
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

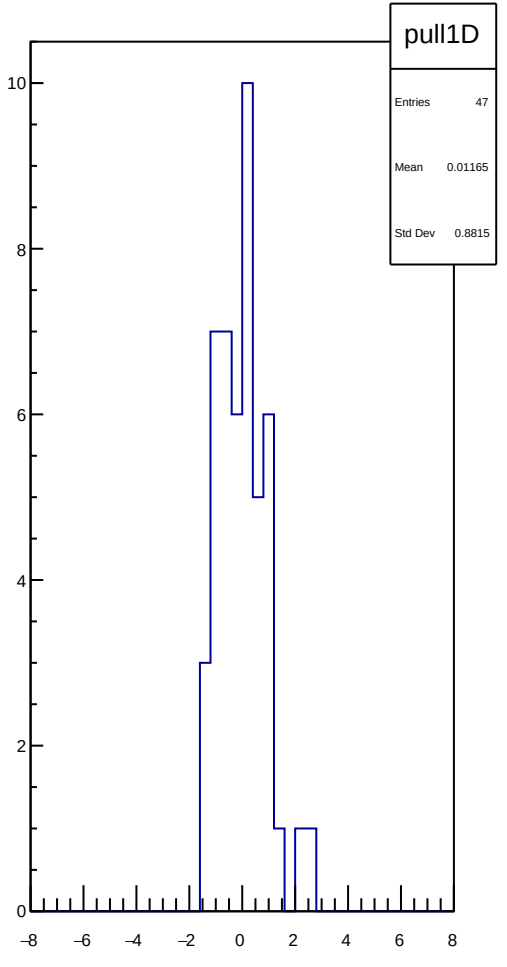

asym_us_dd_rms vs run
χ² / ndf 3264 / 46
p0 466.4 ± 0.4755
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

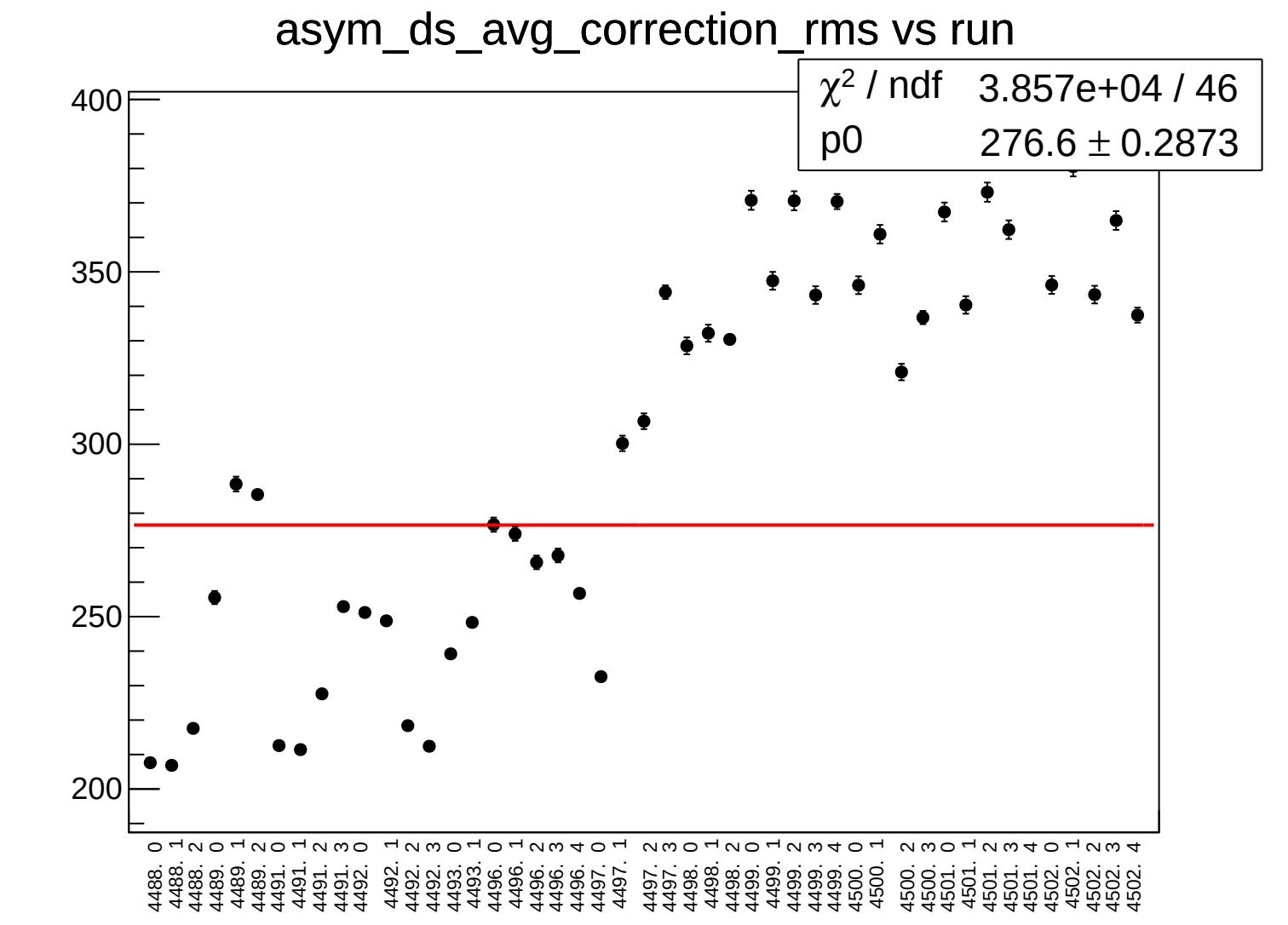

reg_asym_ds_avg_mean vs run
χ² / ndf 53.06 / 46
p0 −270.2 ± 146
3000
2000
1000
0
−1000
−2000
−3000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 993
Std Dev 962.9
2
1
0
−1
−2

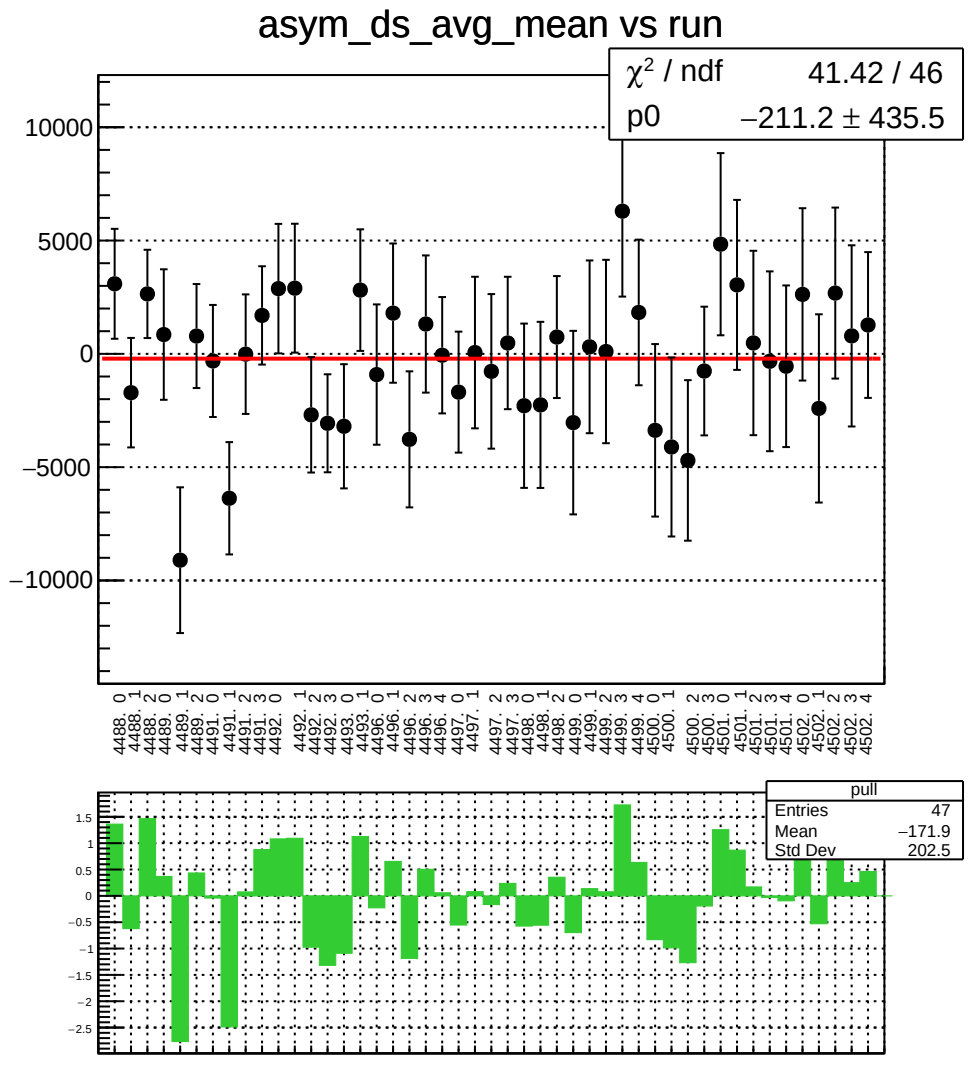

pull1D
Entries 47
Mean 0.003033
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

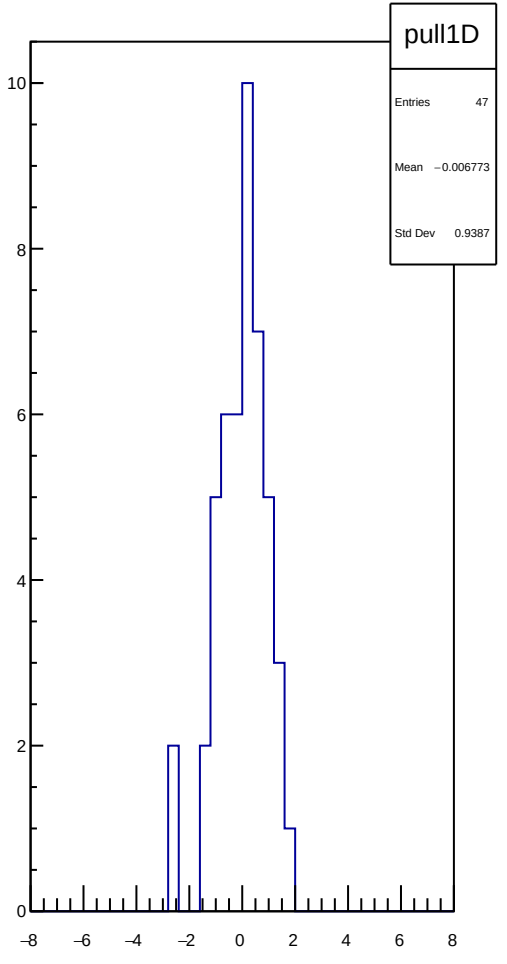

reg_asym_ds_avg_rms vs run
χ² / ndf 660.1 / 46
p0 101.4 ± 0.1032
115
110
105
100
95
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

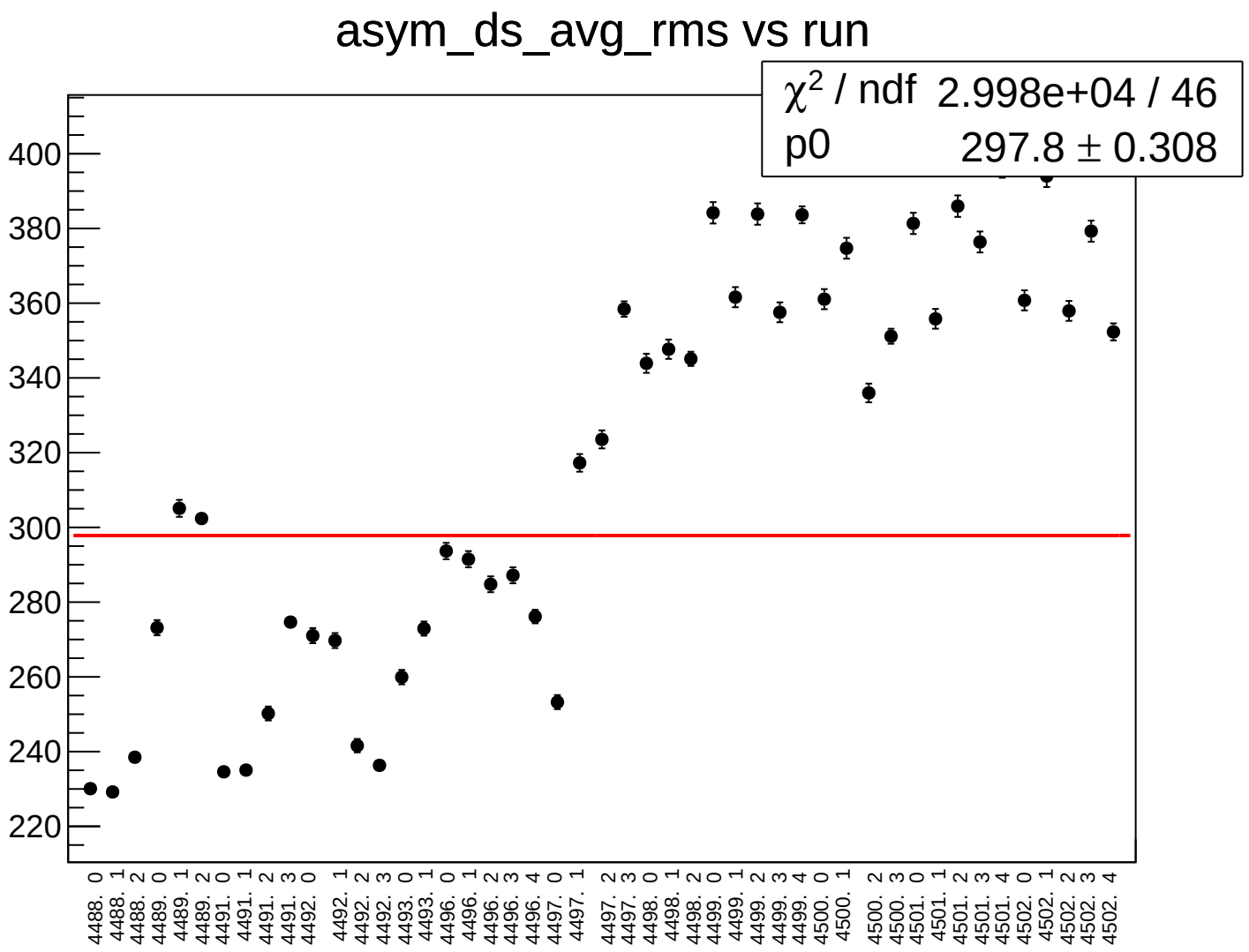

asym_ds_avg_correction_mean vs run
χ² / ndf 36.53 / 46
p0 –86.11± 406.3
pull
Entries 47
Mean –14.32
Std Dev 46.07

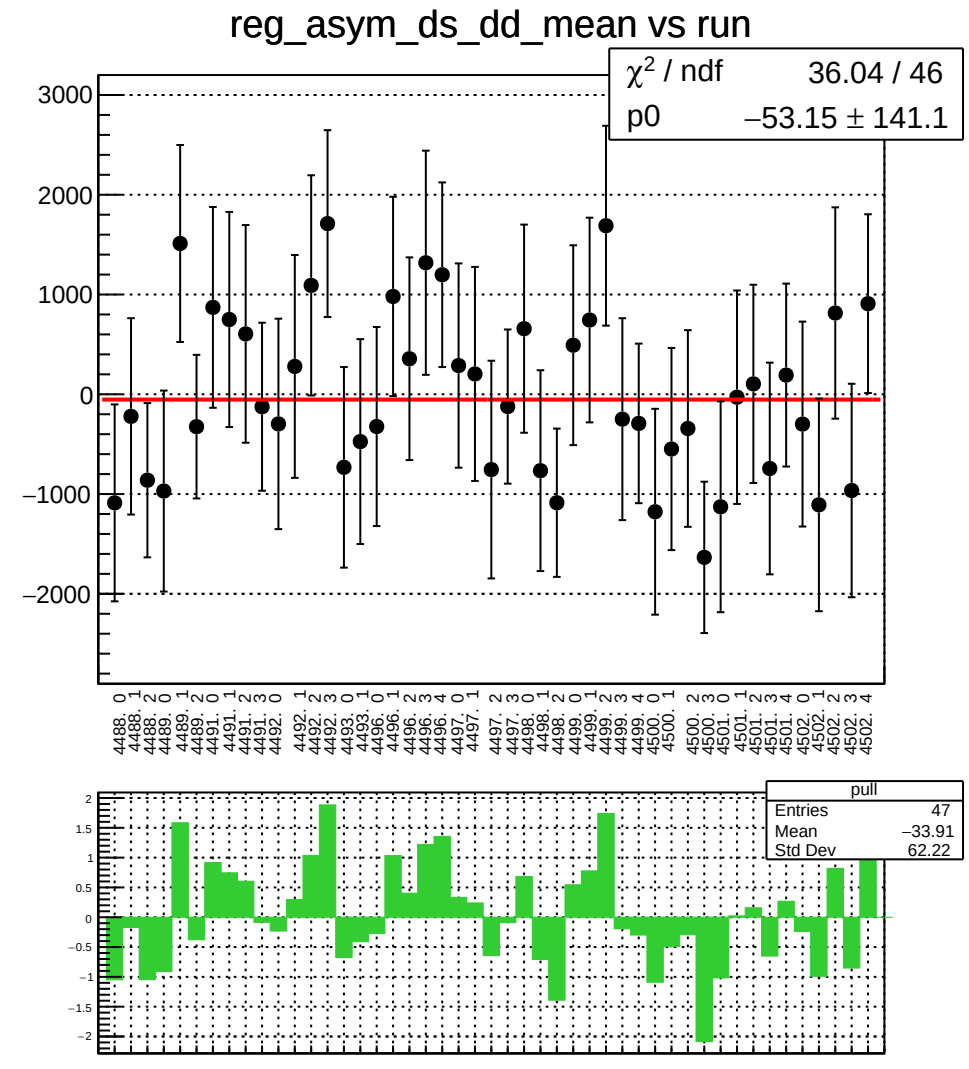

pull1D
Entries 47
Mean 0.01165
Std Dev 0.8815

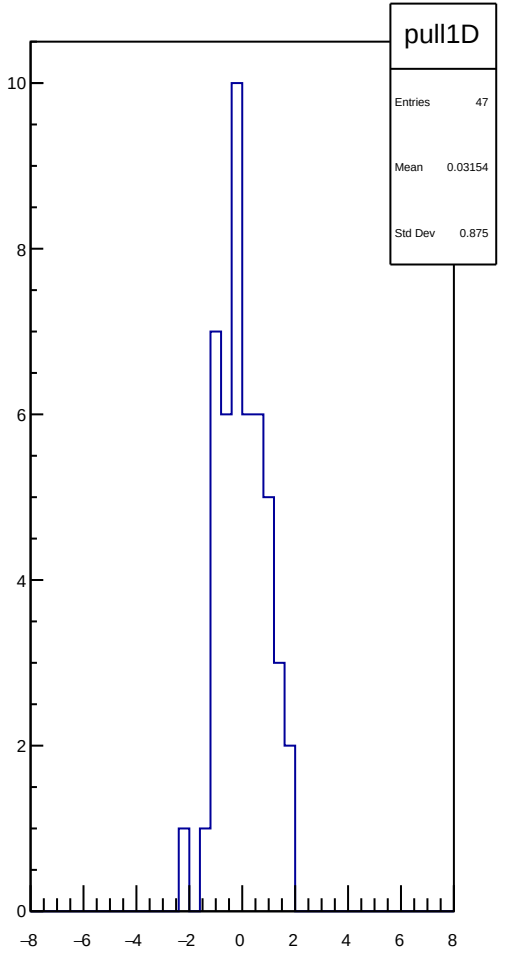

asym_ds_avg_correction_rms vs run
χ² / ndf 3.857e+04 / 46
p0 276.6 ± 0.2873
400
350
300
250
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

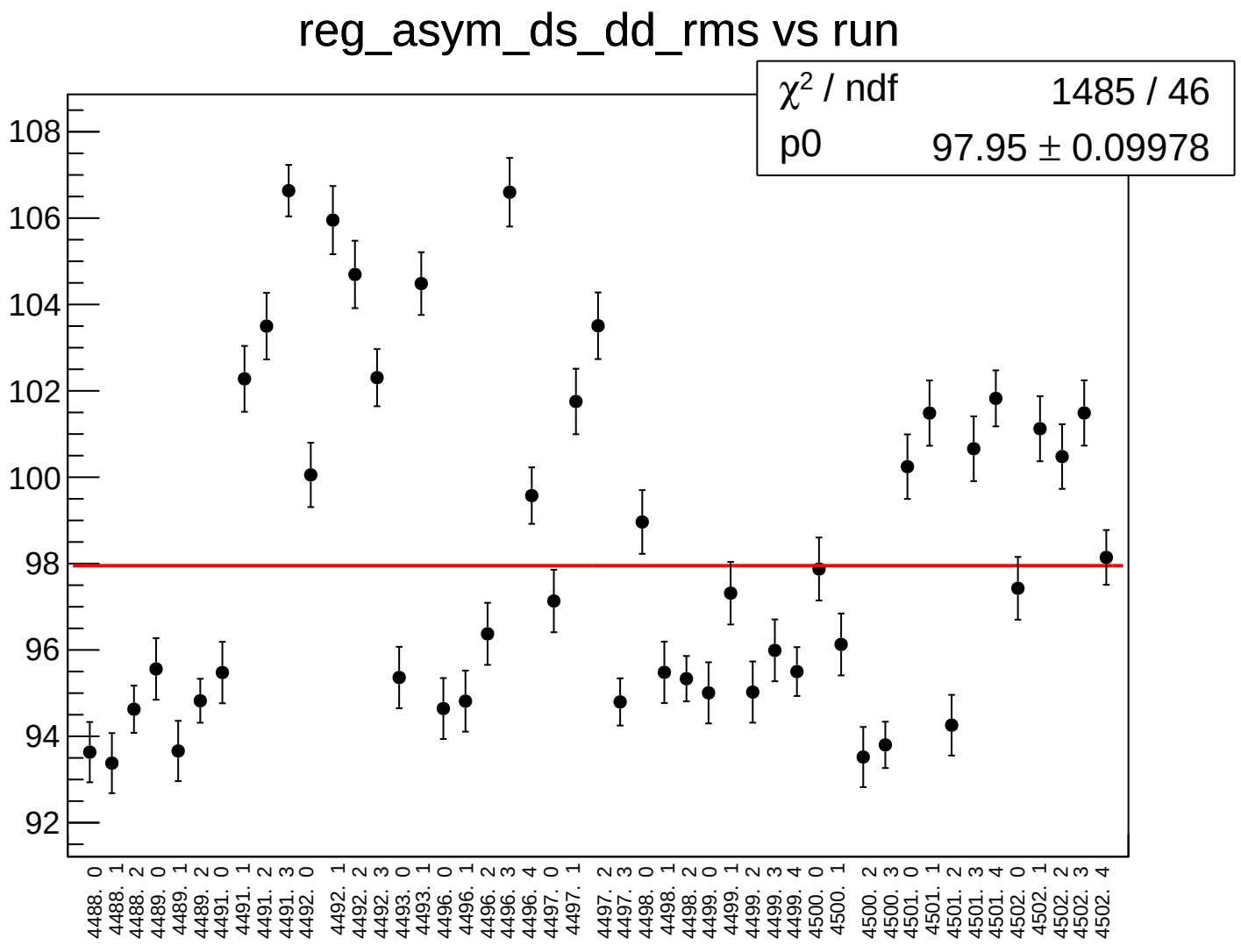

asym_ds_avg_mean vs run
χ^2 / ndf 41.42 / 46
p0 −211.2 ± 435.5
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −171.9
Std Dev 202.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

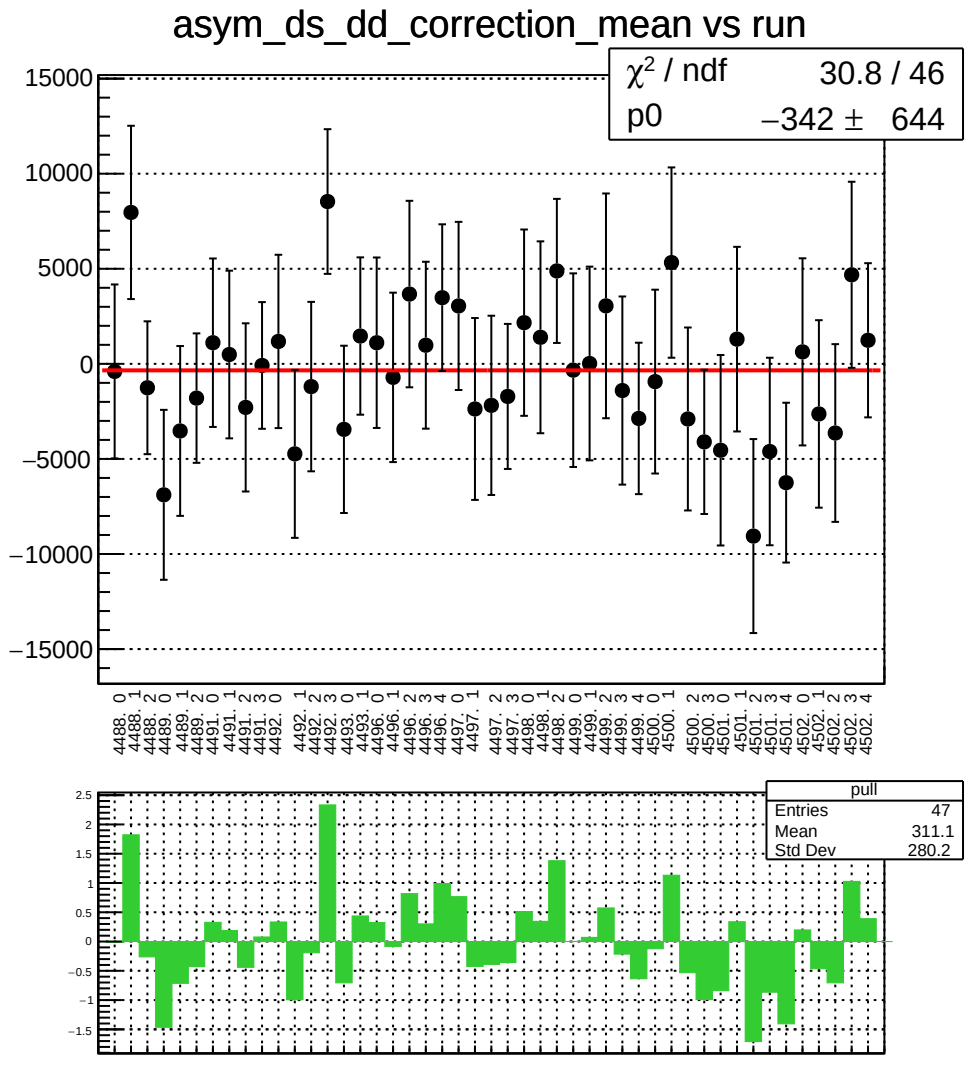

pull1D
Entries 47
Mean −0.006773
Std Dev 0.9387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

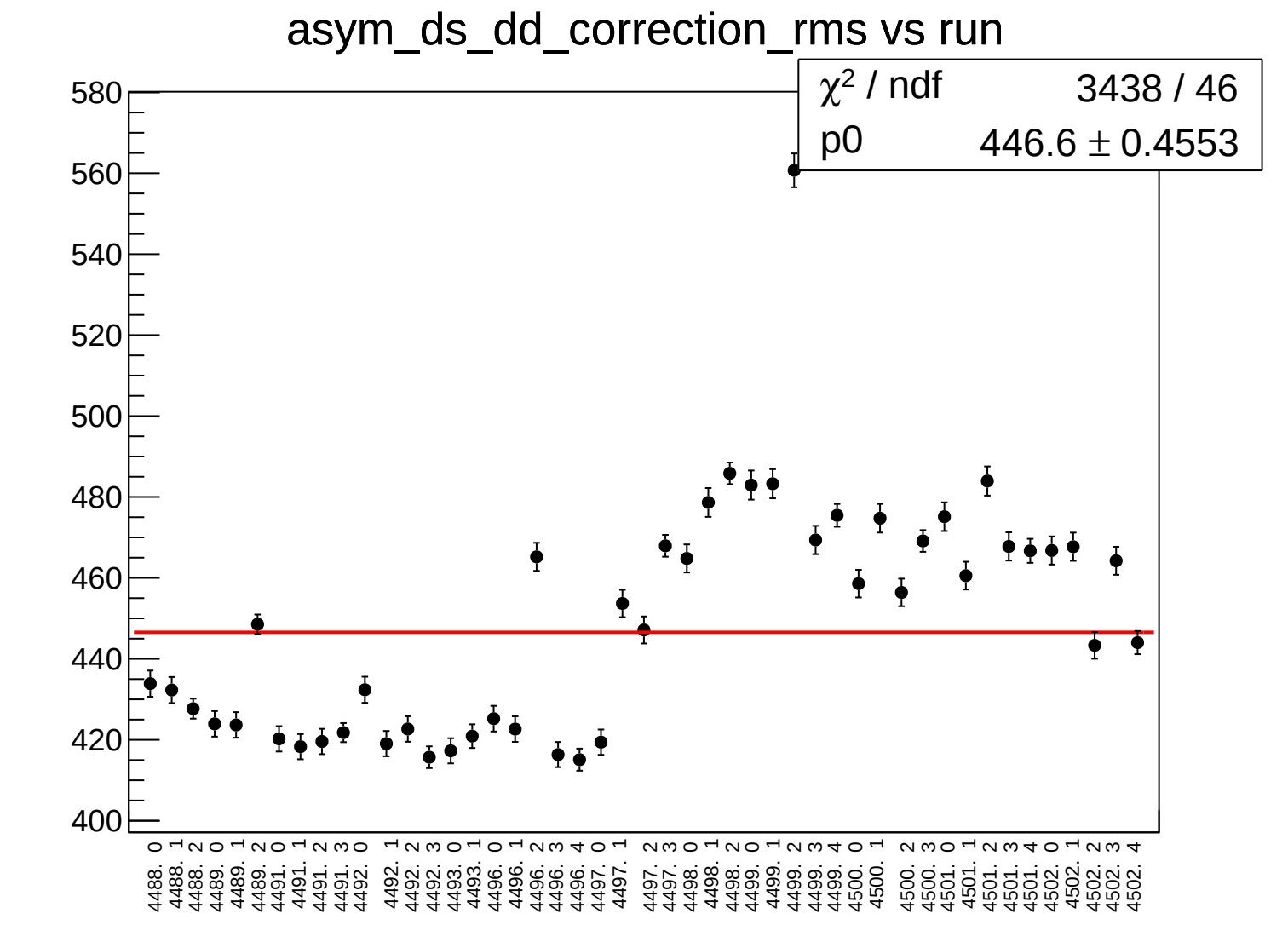

asym_ds_avg_rms vs run
χ² / ndf 2.998e+04 / 46
p0 297.8 ± 0.308
400
380
360
340
320
300
280
260
240
220
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

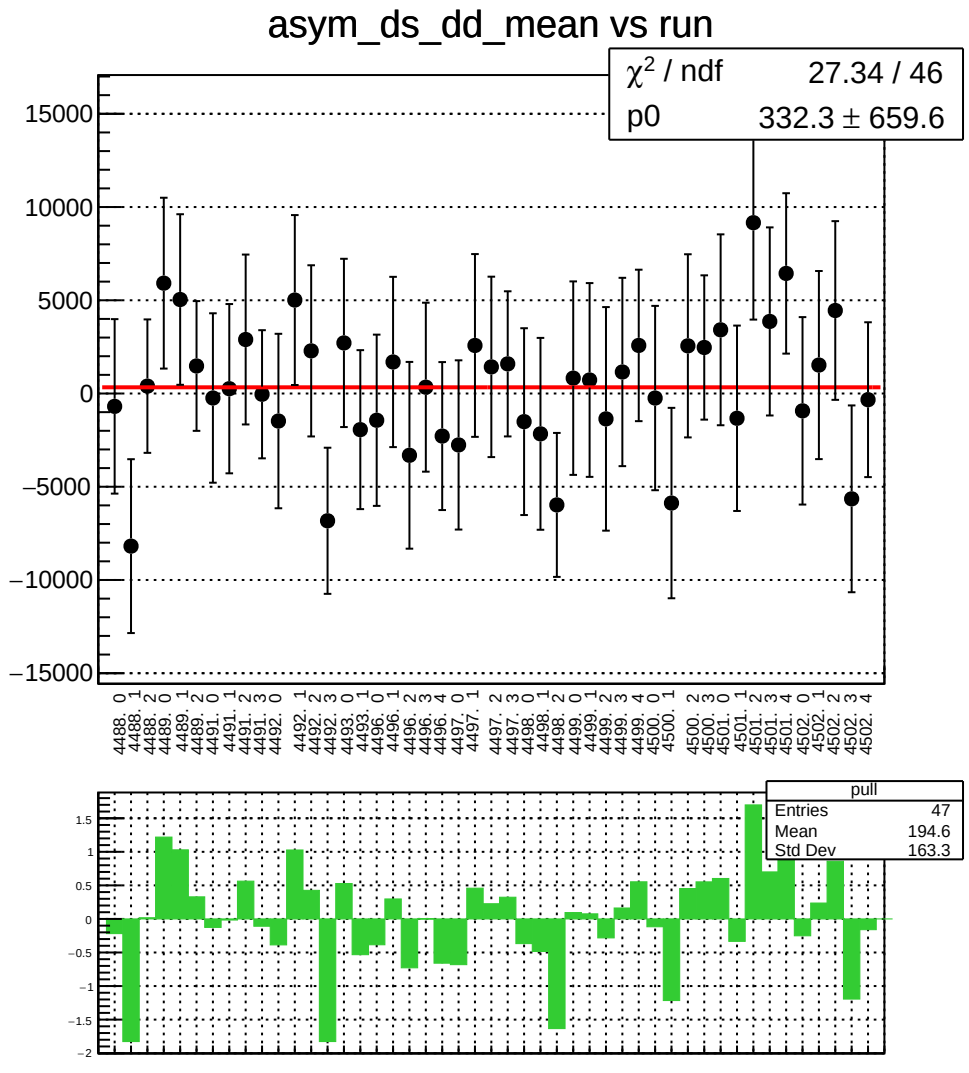

reg_asym_ds_dd_mean vs run
χ² / ndf 36.04 / 46
p0 −53.15 ± 141.1
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −33.91
Std Dev 62.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

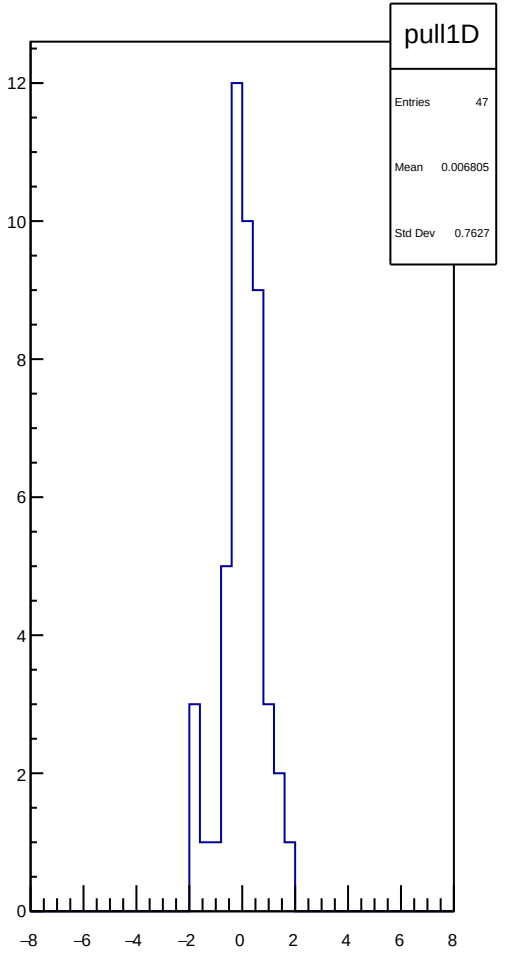

pull1D
Entries 47
Mean 0.03154
Std Dev 0.875
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

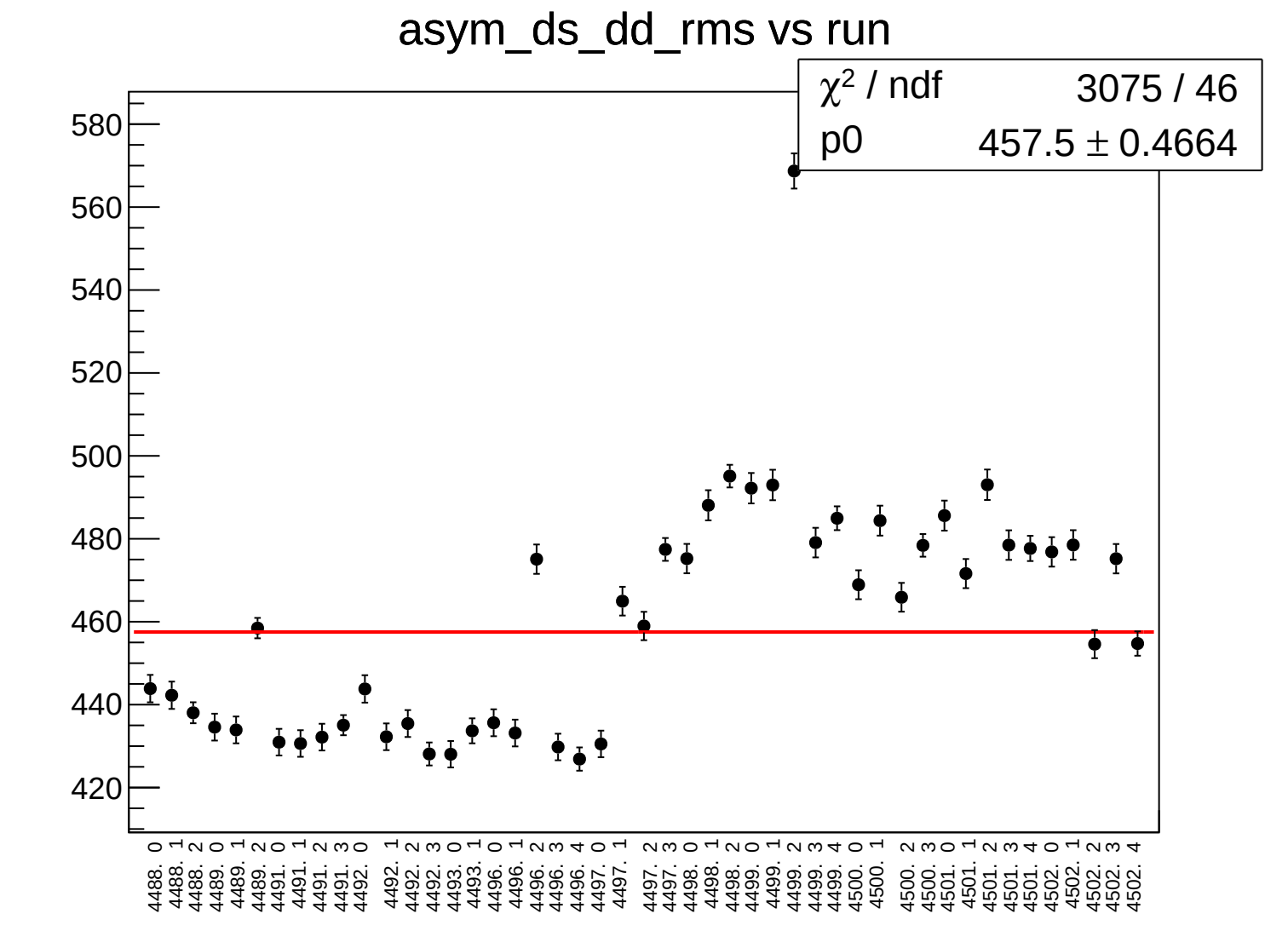

reg_asym_ds_dd_rms vs run
χ² / ndf 1485 / 46
p0 97.95 ± 0.09978
108
106
104
102
100
98
96
94
92
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

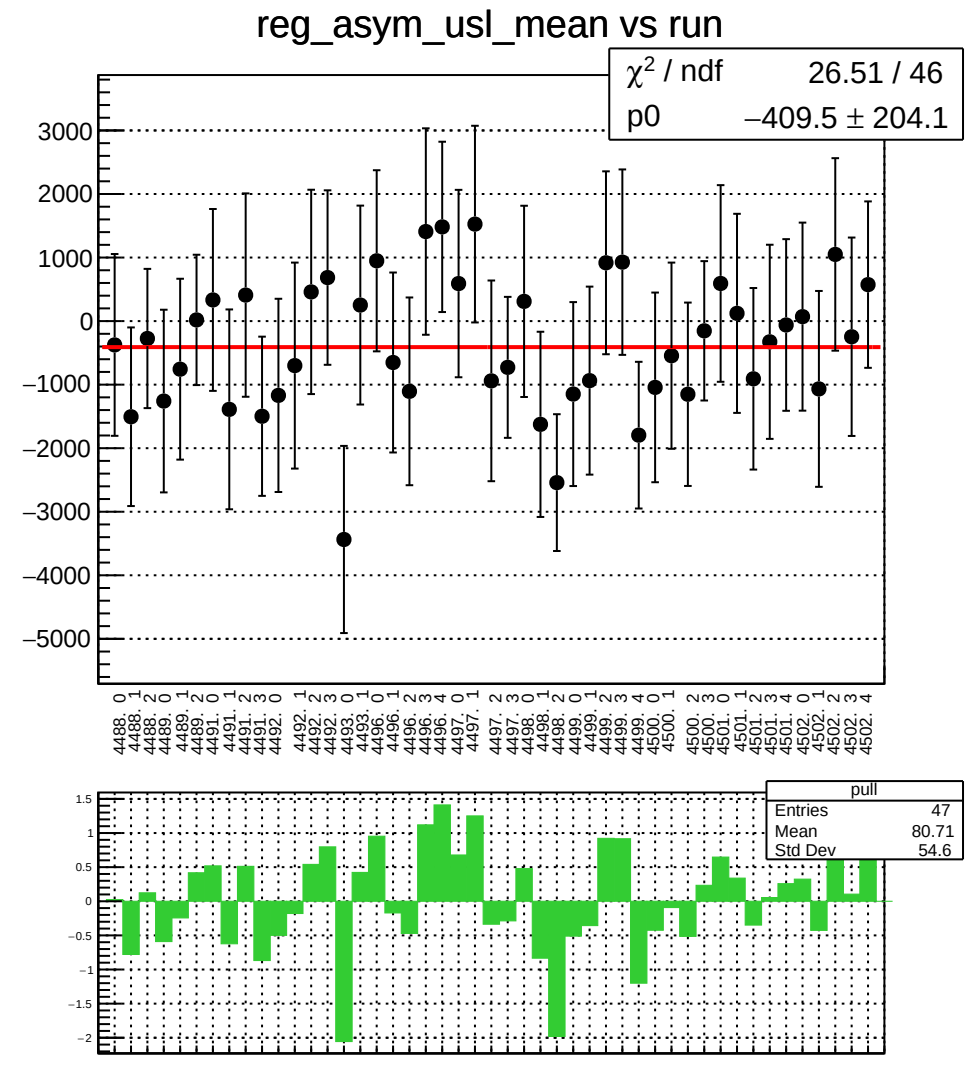

asym_ds_dd_correction_mean vs run
χ² / ndf 30.8 / 46
p0 −342 ± 644
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 311.1
Std Dev 280.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.005573
Std Dev 0.8095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

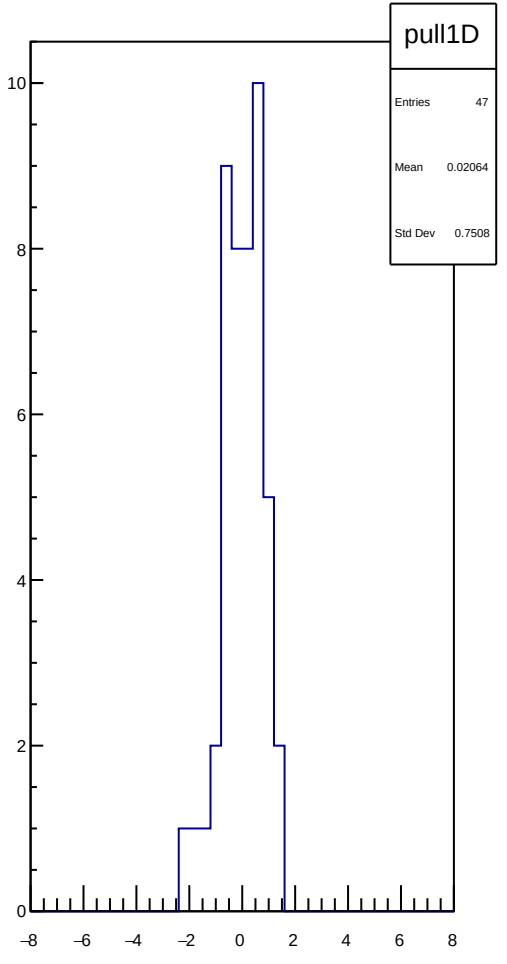

asym_ds_dd_correction_rms vs run
χ² / ndf 3438 / 46
p0 446.6 ± 0.4553
580
560
540
520
500
480
460
440
420
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

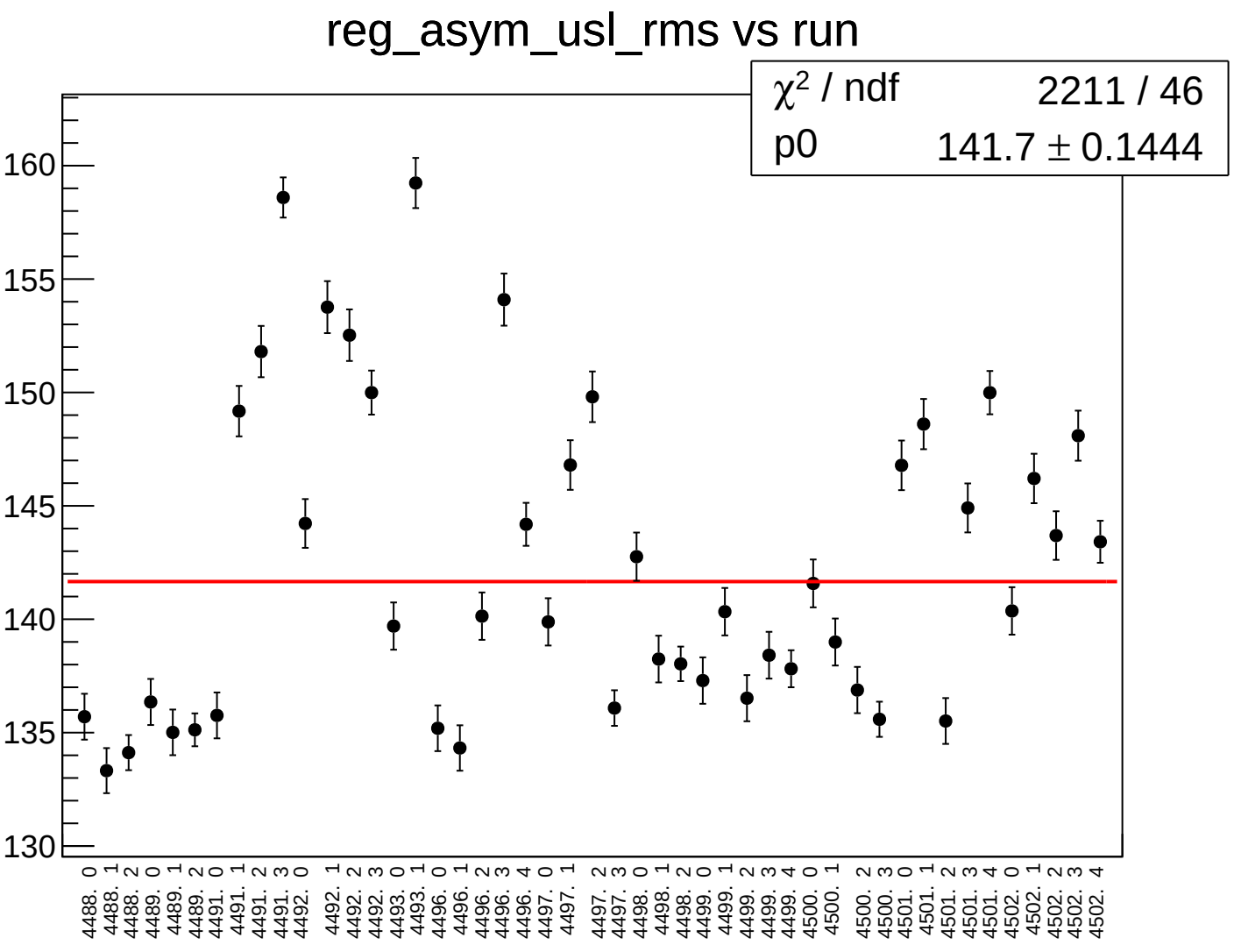

asym_ds_dd_mean vs run
χ² / ndf 27.34 / 46
p0 332.3 ± 659.6
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 194.6
Std Dev 163.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

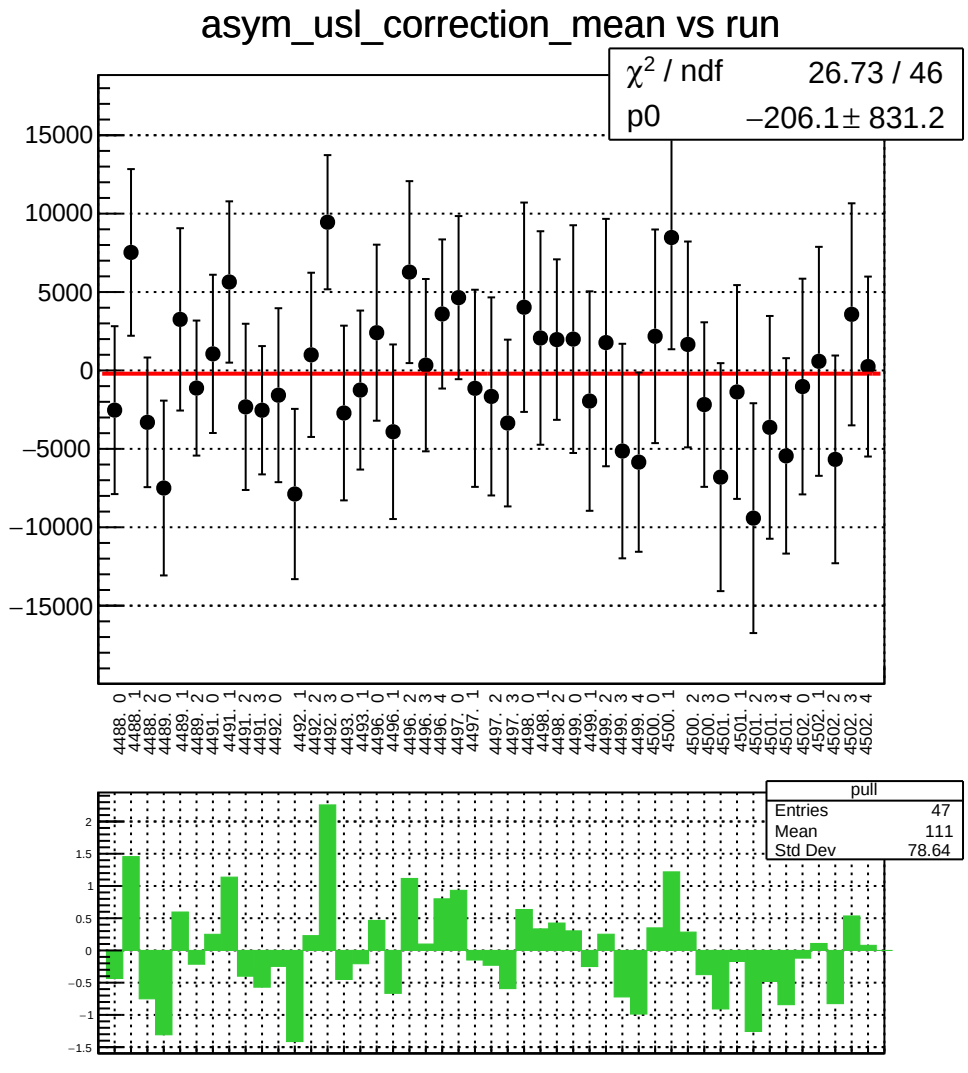

pull1D
Entries 47
Mean 0.006805
Std Dev 0.7627
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

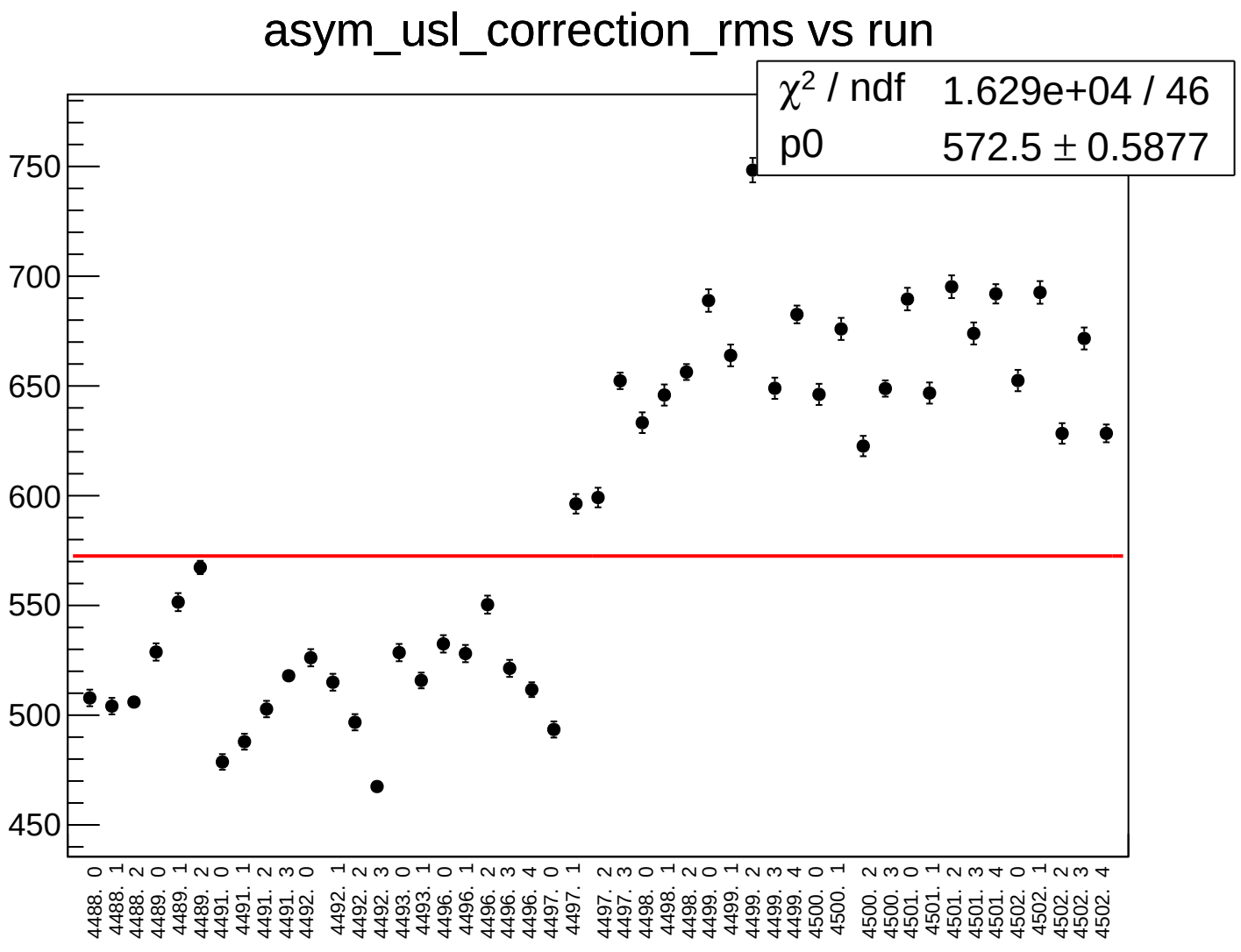

asym_ds_dd_rms vs run
χ² / ndf 3075 / 46
p0 457.5 ± 0.4664
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

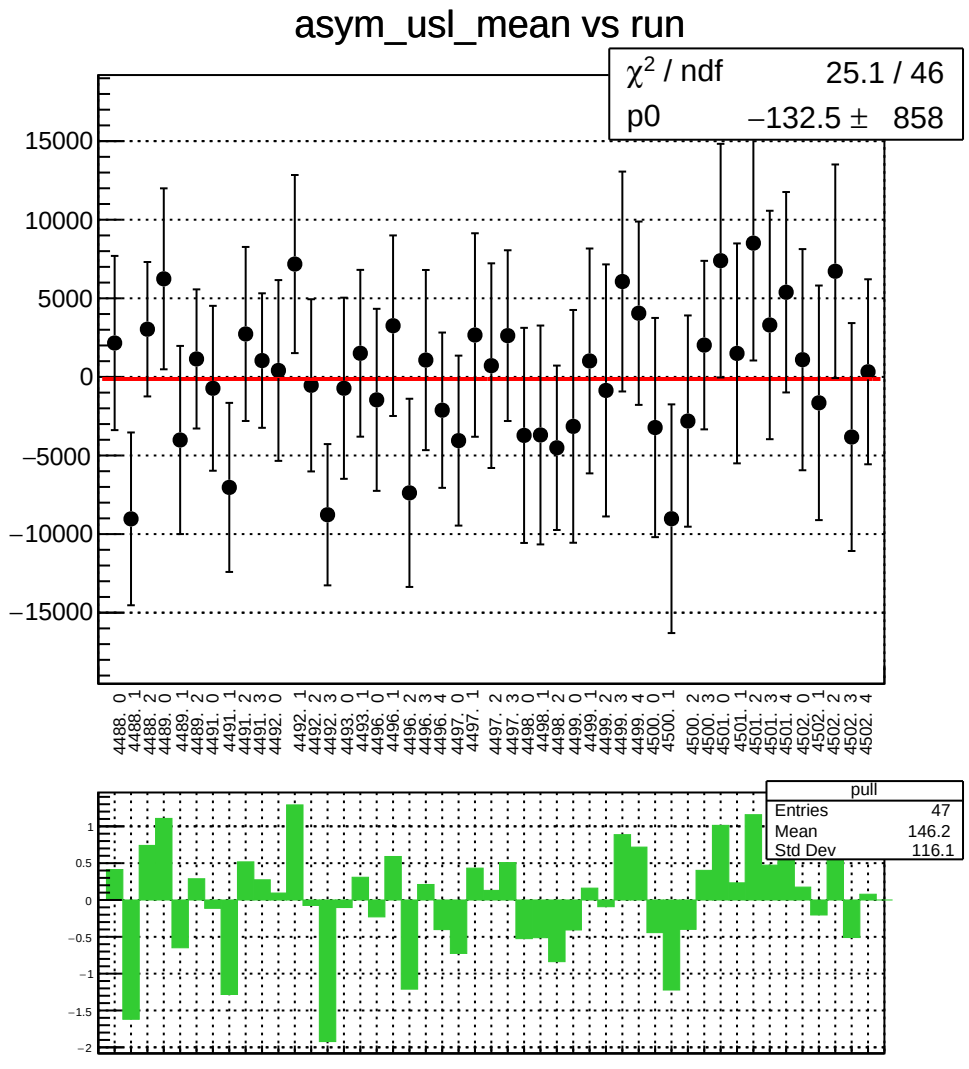

reg_asym_usl_mean vs run
χ² / ndf 26.51 / 46
p0 −409.5 ± 204.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 80.71
Std Dev 54.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

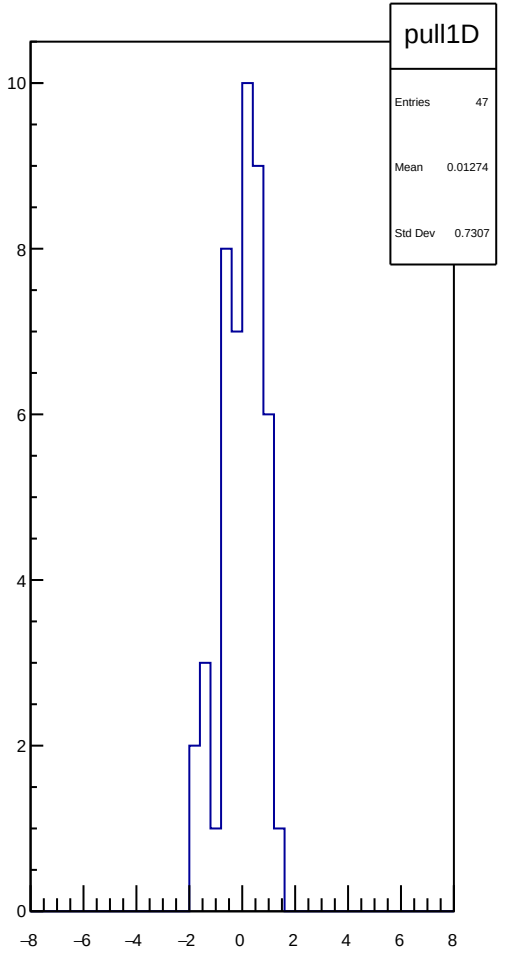

pull1D
Entries 47
Mean 0.02064
Std Dev 0.7508
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

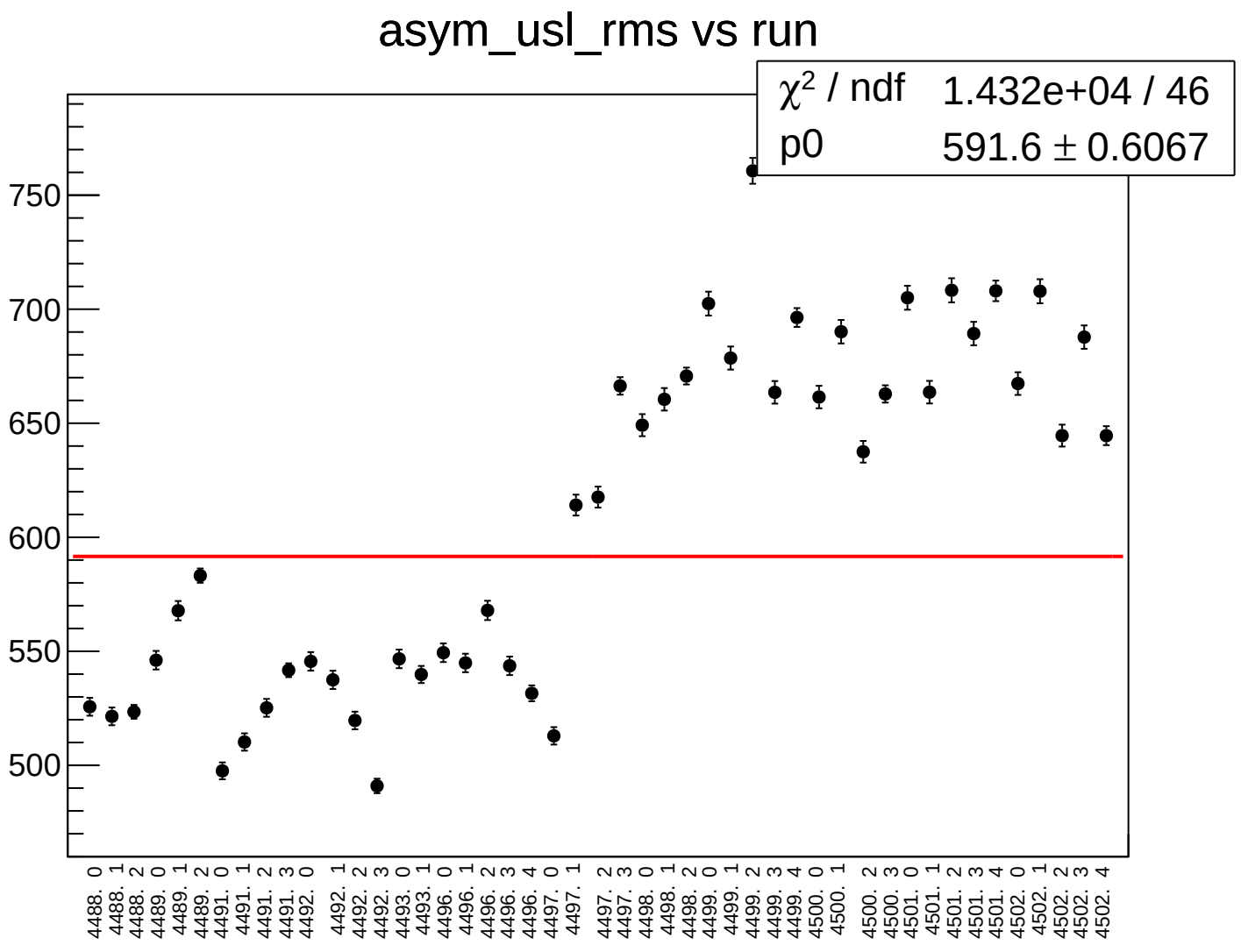

reg_asym_usl_rms vs run
χ² / ndf 2211 / 46
p0 141.7 ± 0.1444
160
155
150
145
140
135
130
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

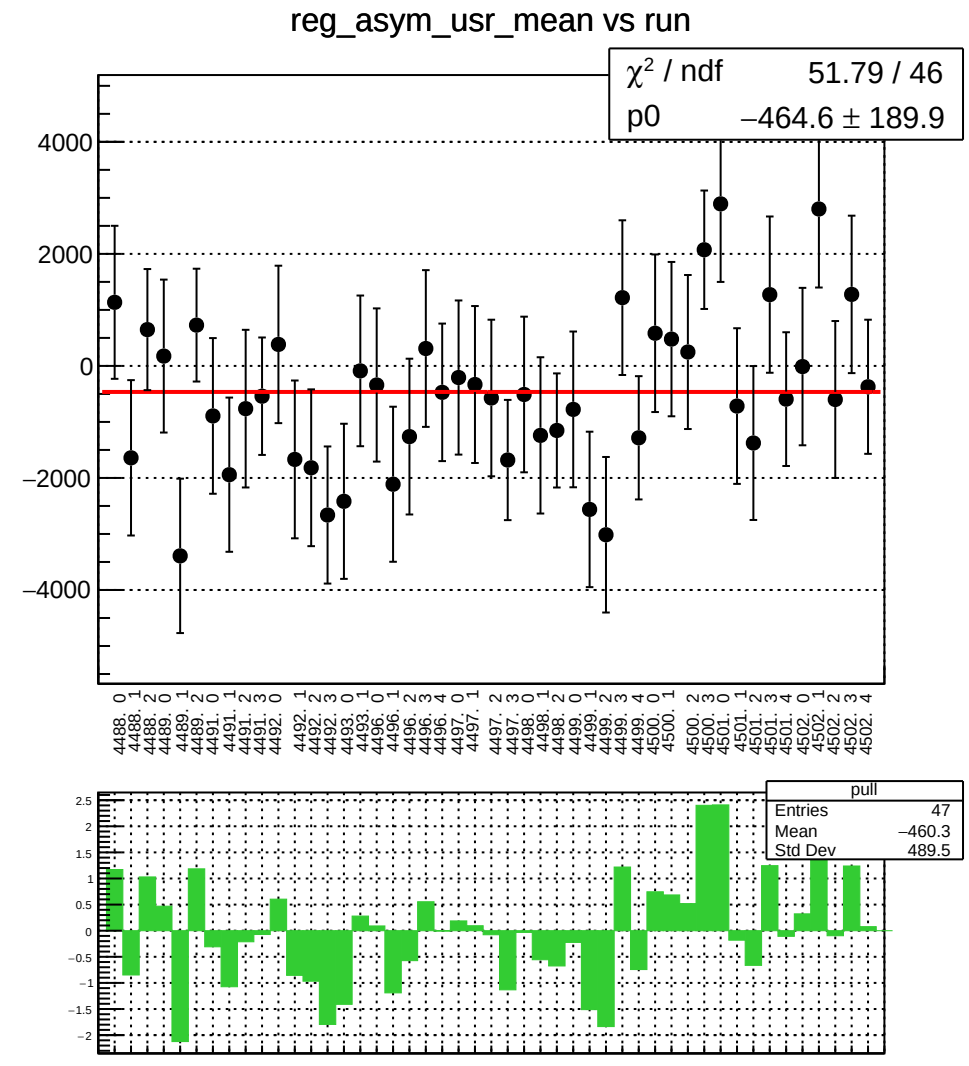

asym_usl_correction_mean vs run
χ² / ndf 26.73 / 46
p0 −206.1 ± 831.2
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 111
Std Dev 78.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.0149
Std Dev 0.754
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

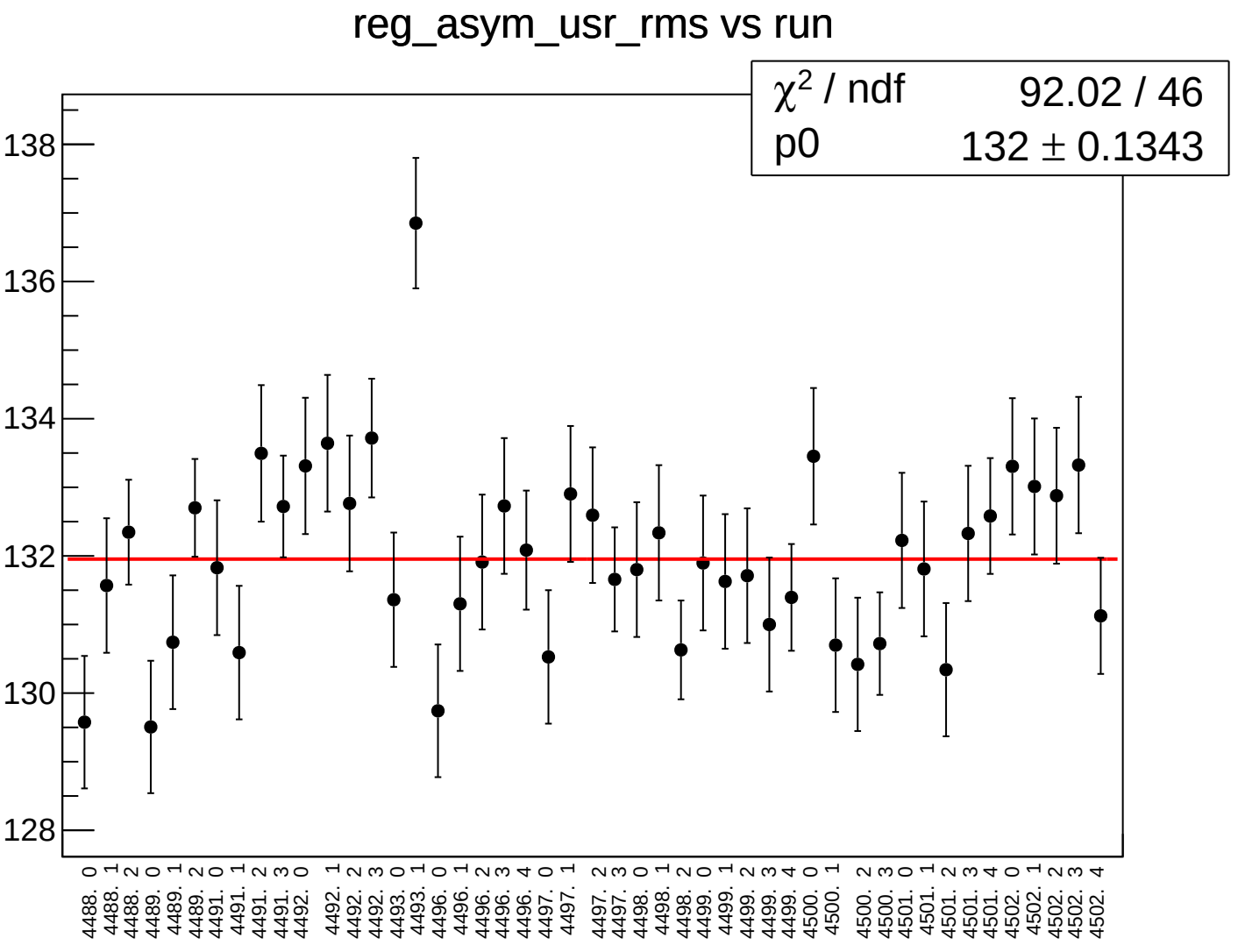

asym_usl_correction_rms vs run
χ² / ndf 1.629e+04 / 46
p0 572.5 ± 0.5877
750
700
650
600
550
500
450
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

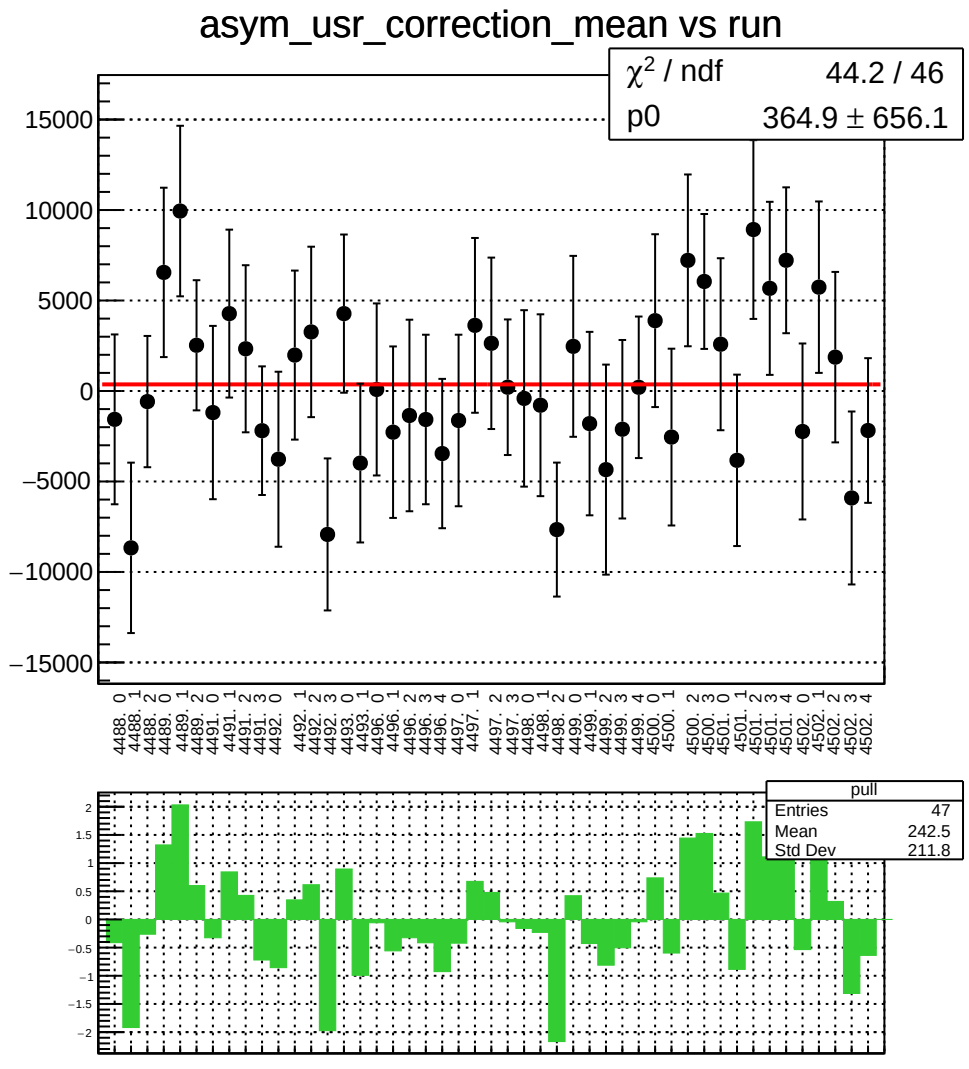

asym_usl_mean vs run
χ² / ndf 25.1 / 46
p0 −132.5 ± 858
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 146.2
Std Dev 116.1
1
0.5
0
−0.5
−1
−1.5
−2

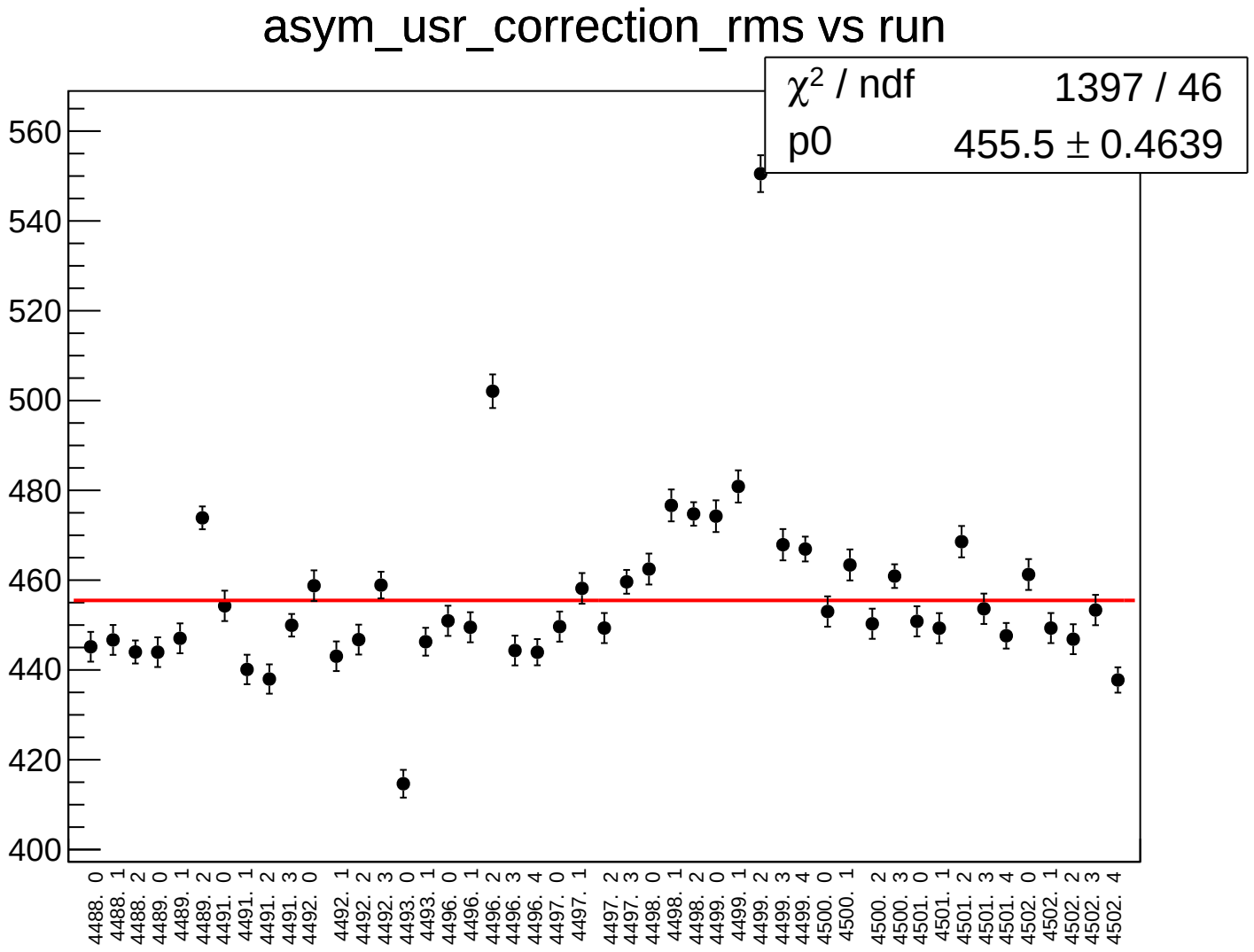

pull1D
Entries 47
Mean 0.01274
Std Dev 0.7307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

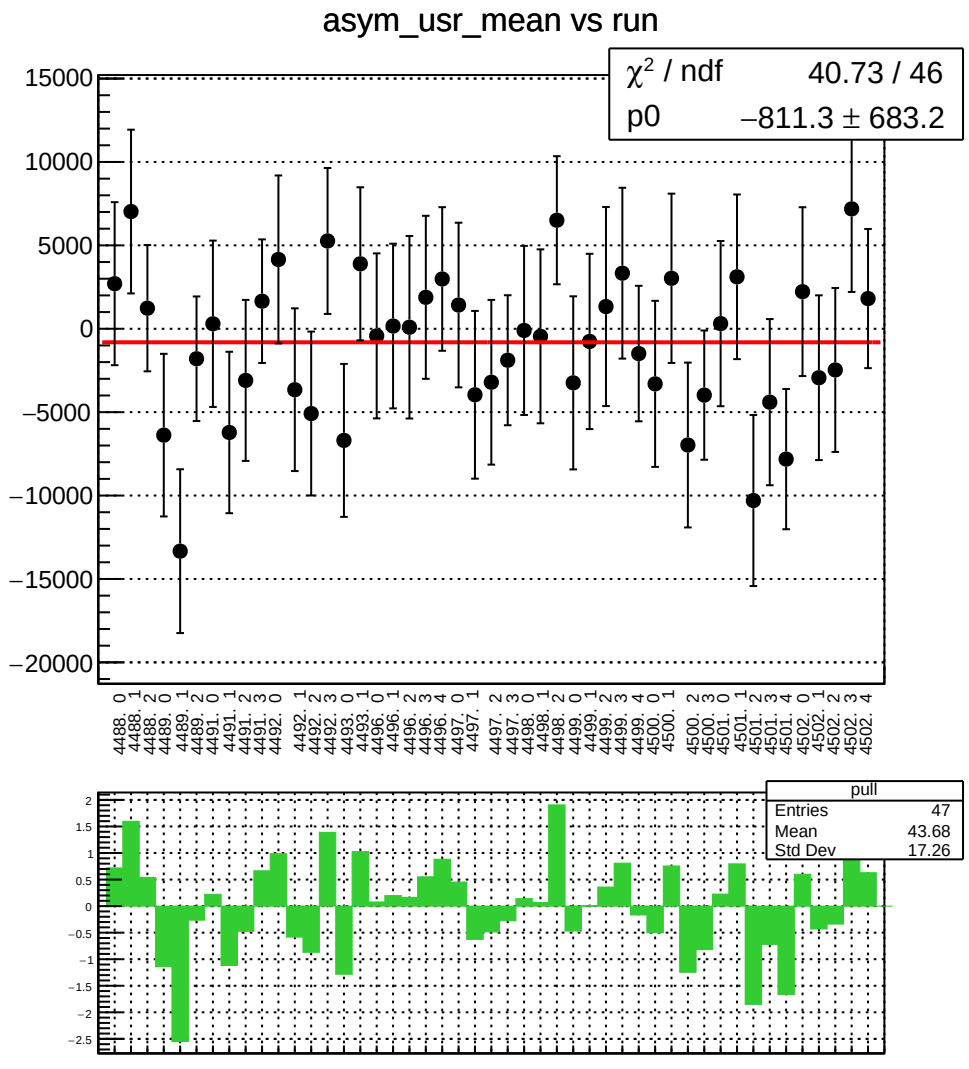

asym_usl_rms vs run
χ² / ndf 1.432e+04 / 46
p0 591.6 ± 0.6067
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

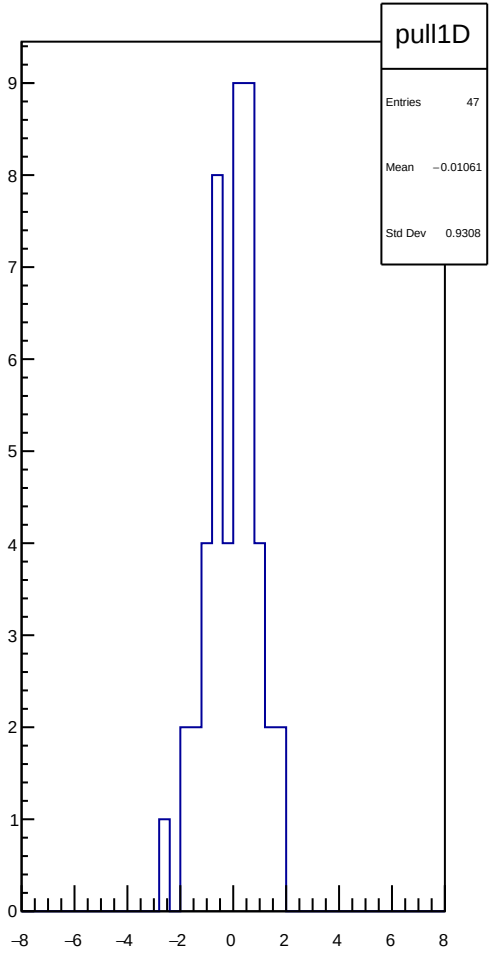

reg_asym_usr_mean vs run
χ² / ndf 51.79 / 46
p0 −464.6 ± 189.9
4000
2000
0
−2000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −460.3
Std Dev 489.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.008827
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

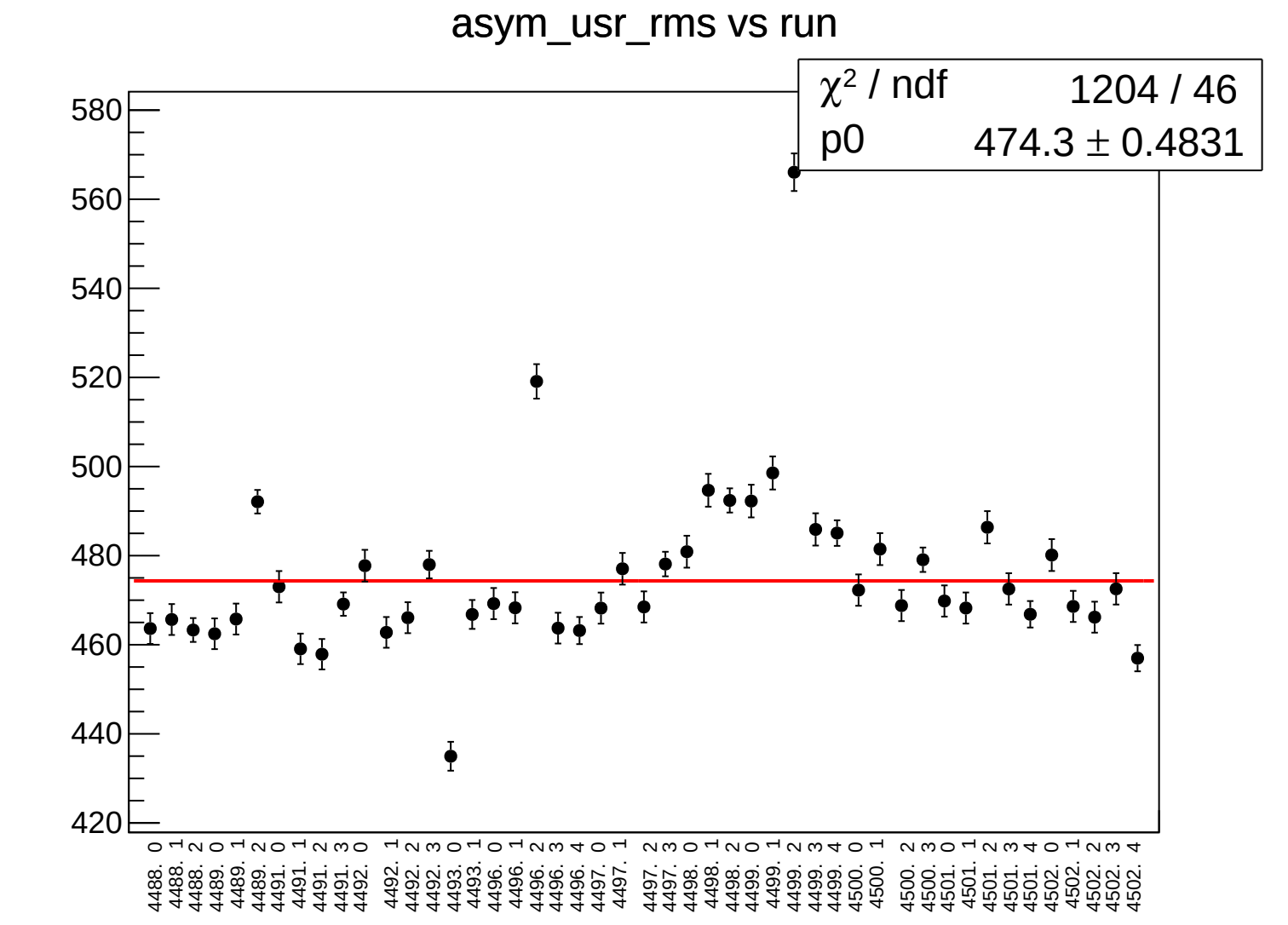

reg_asym_usr_rms vs run
χ² / ndf 92.02 / 46
p0 132 ± 0.1343
138
136
134
132
130
128
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

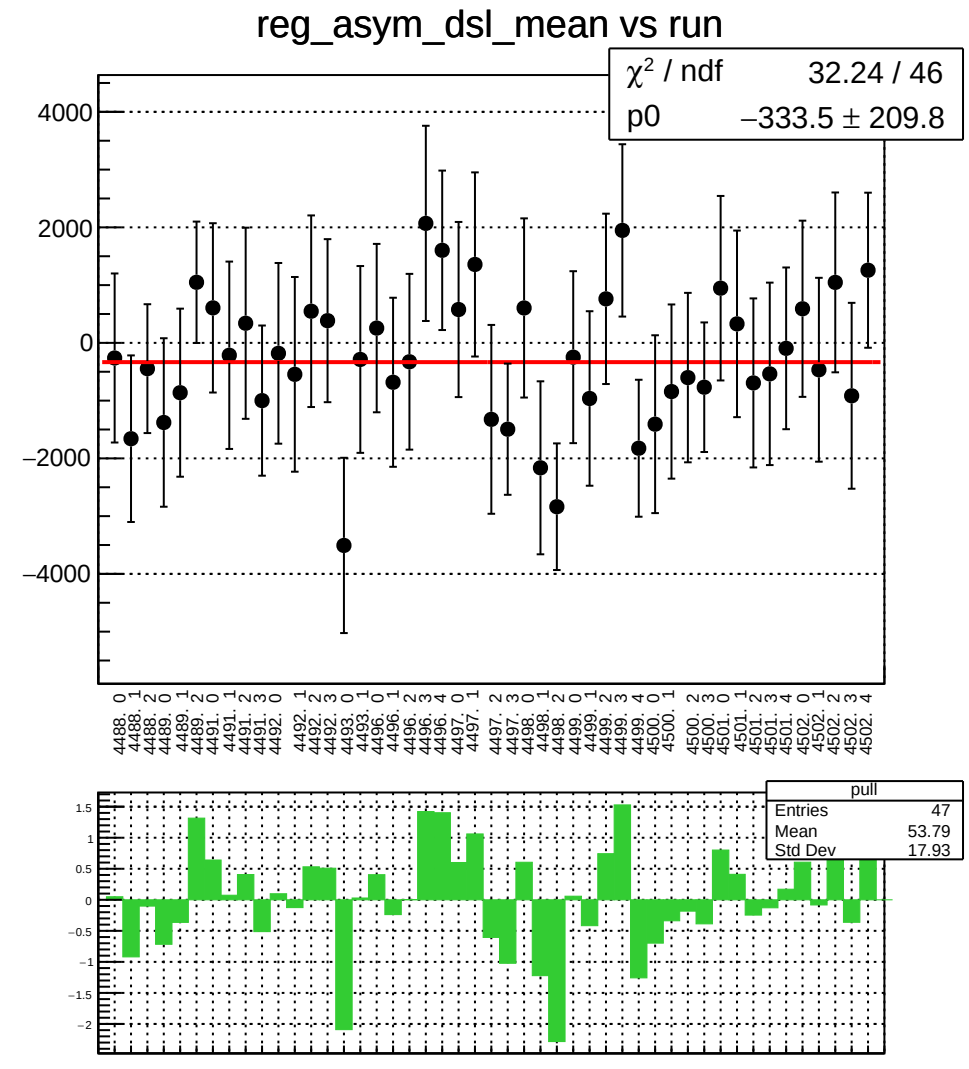

asym_usr_correction_mean vs run
χ² / ndf 44.2 / 46
p0 364.9 ± 656.1
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 242.5
Std Dev 211.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean 0.006863
Std Dev 0.9697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

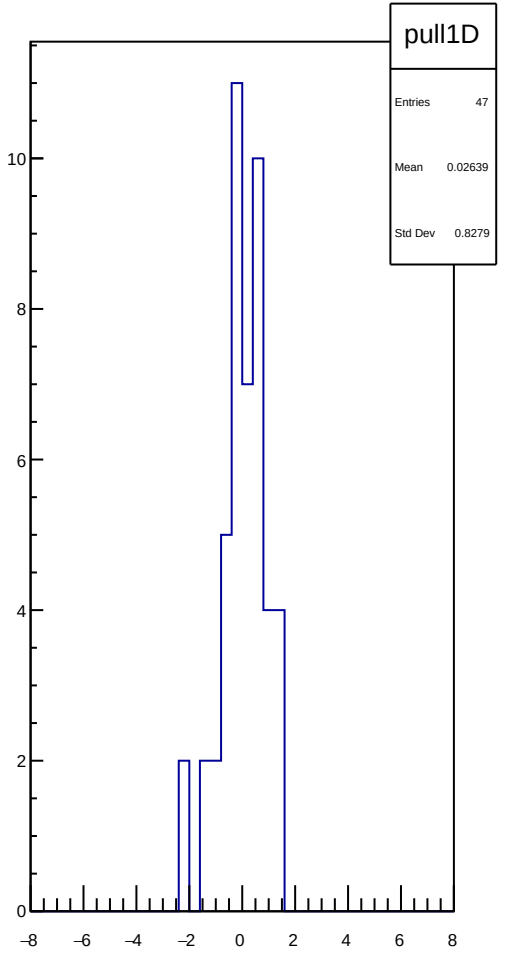

asym_usr_correction_rms vs run
χ² / ndf 1397 / 46
p0 455.5 ± 0.4639
560
540
520
500
480
460
440
420
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

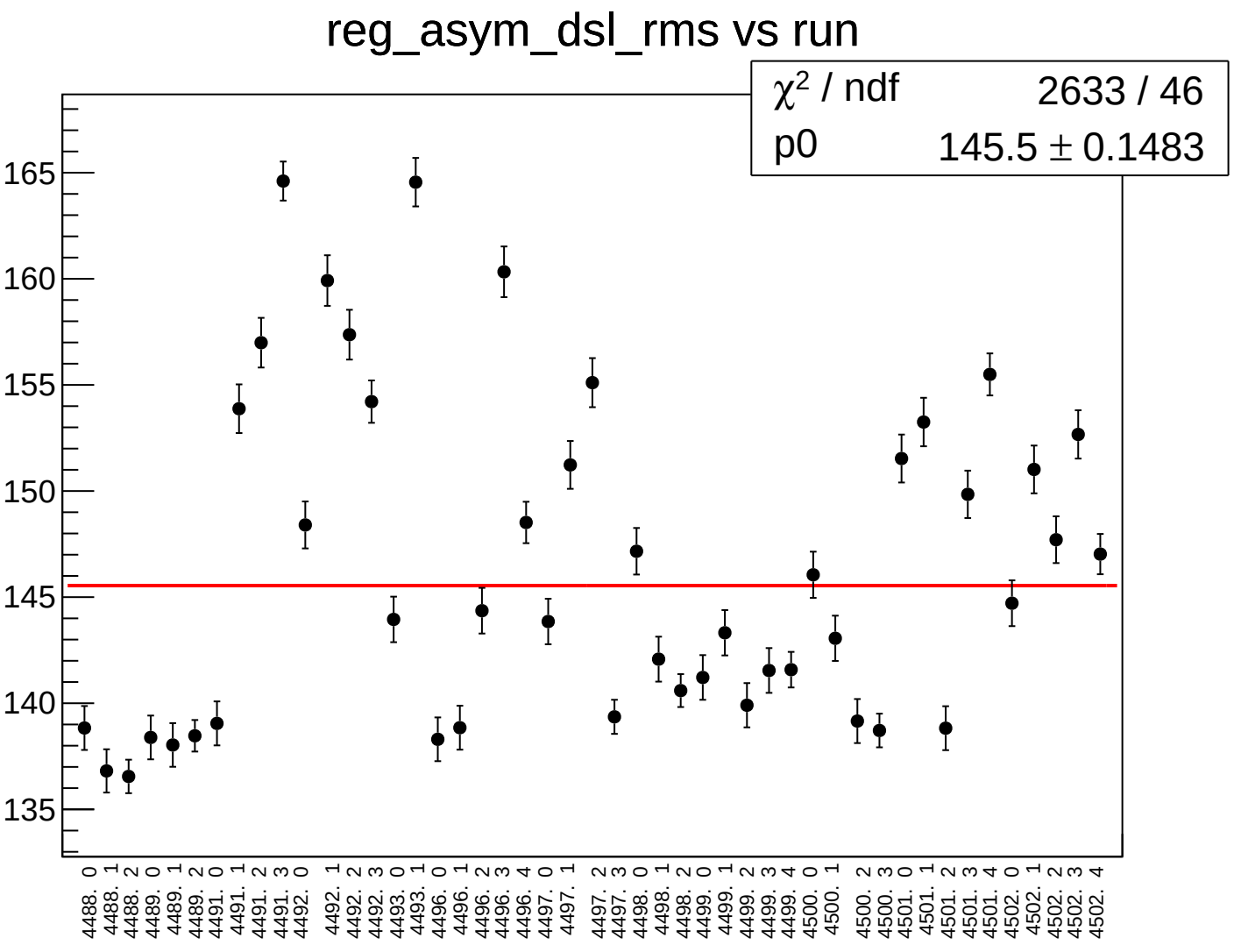

asym_usr_mean vs run
χ² / ndf 40.73 / 46
p0 −811.3 ± 683.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 43.68
Std Dev 17.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

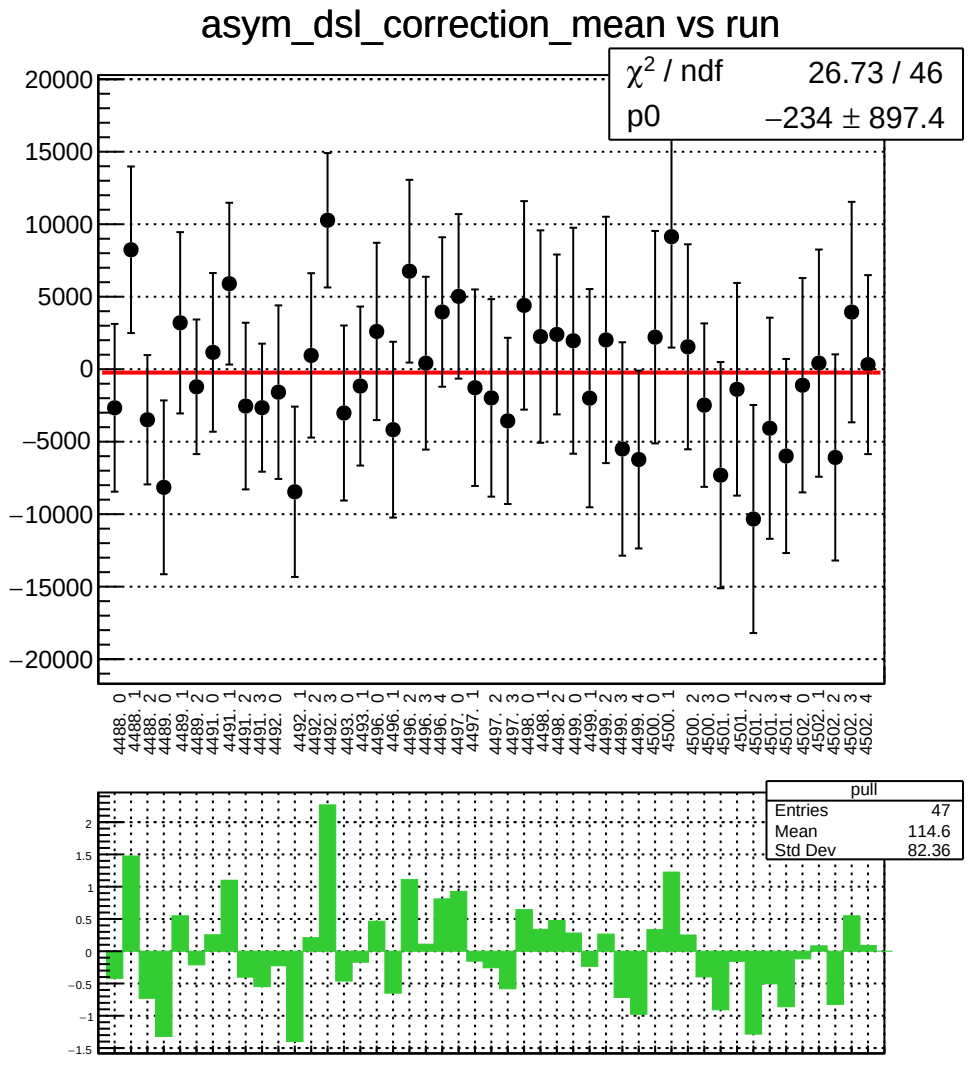

pull1D
Entries 47
Mean −0.01061
Std Dev 0.9308
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

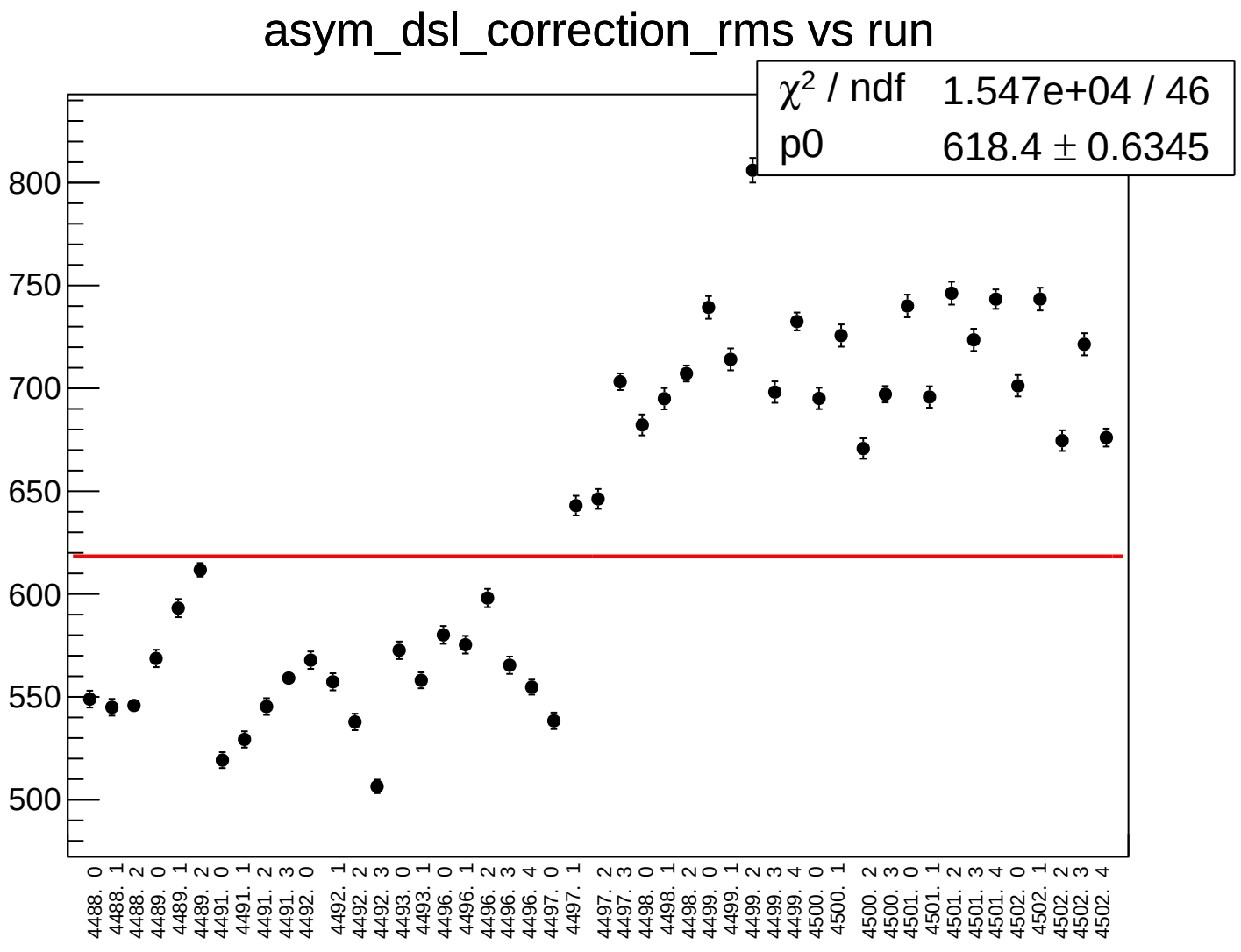

asym_usr_rms vs run
χ² / ndf 1204 / 46
p0 474.3 ± 0.4831
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

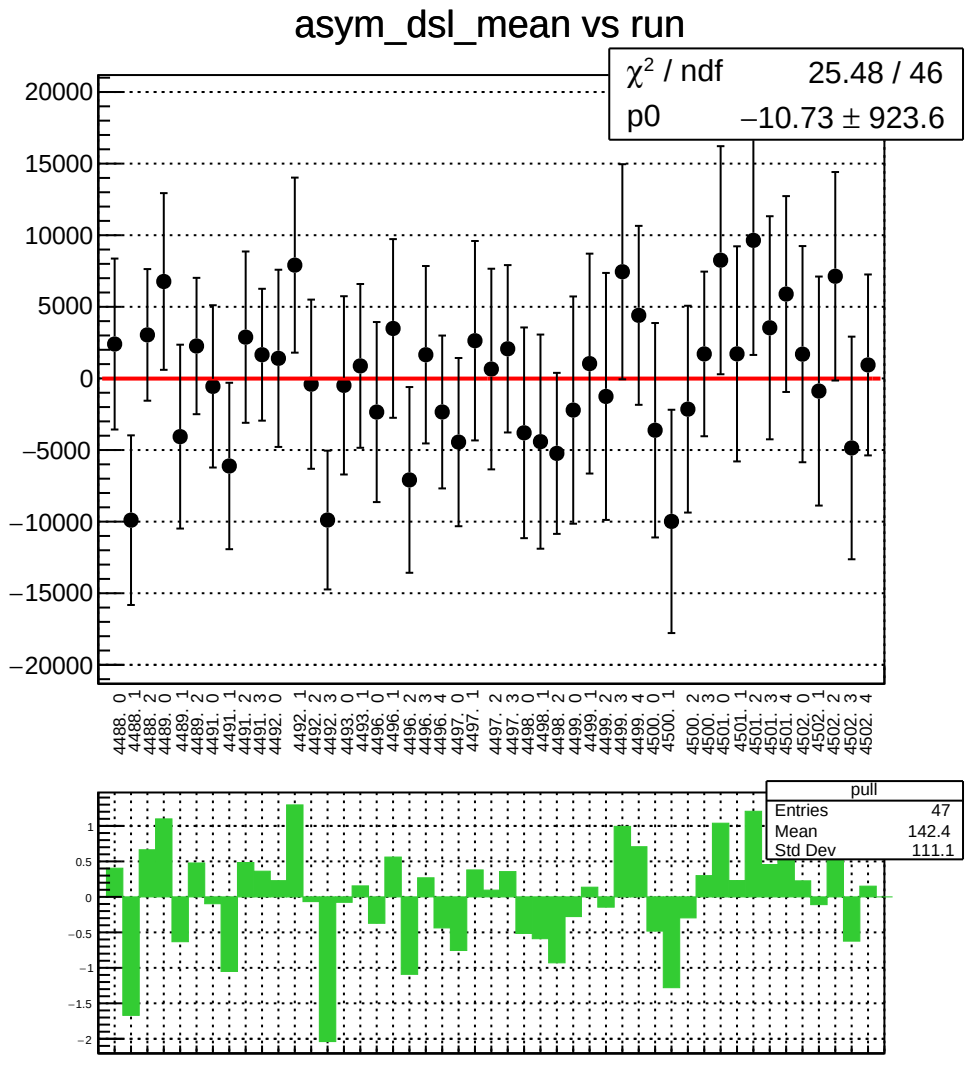

reg_asym_dsl_mean vs run
χ² / ndf 32.24 / 46
p0 −333.5 ± 209.8
4000
2000
0
−2000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 53.79
Std Dev 17.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2

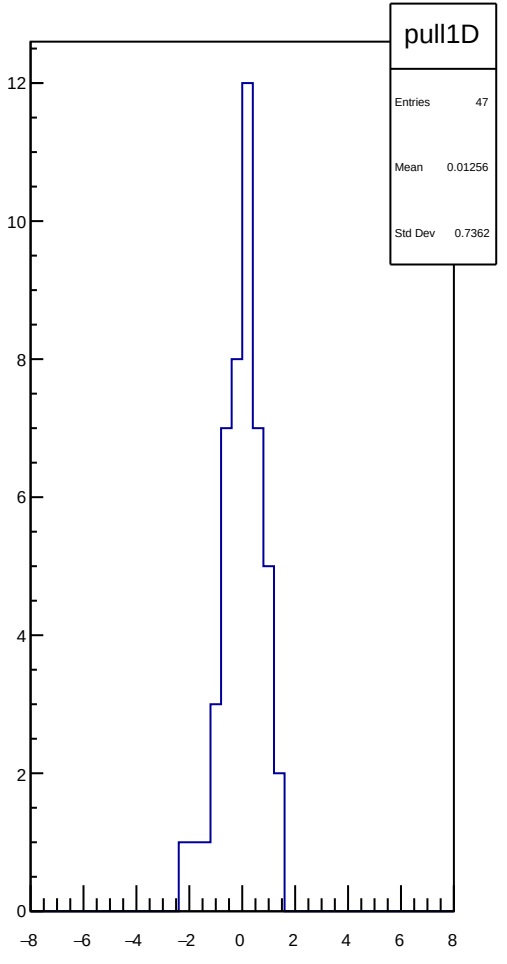

pull1D
Entries 47
Mean 0.02639
Std Dev 0.8279
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

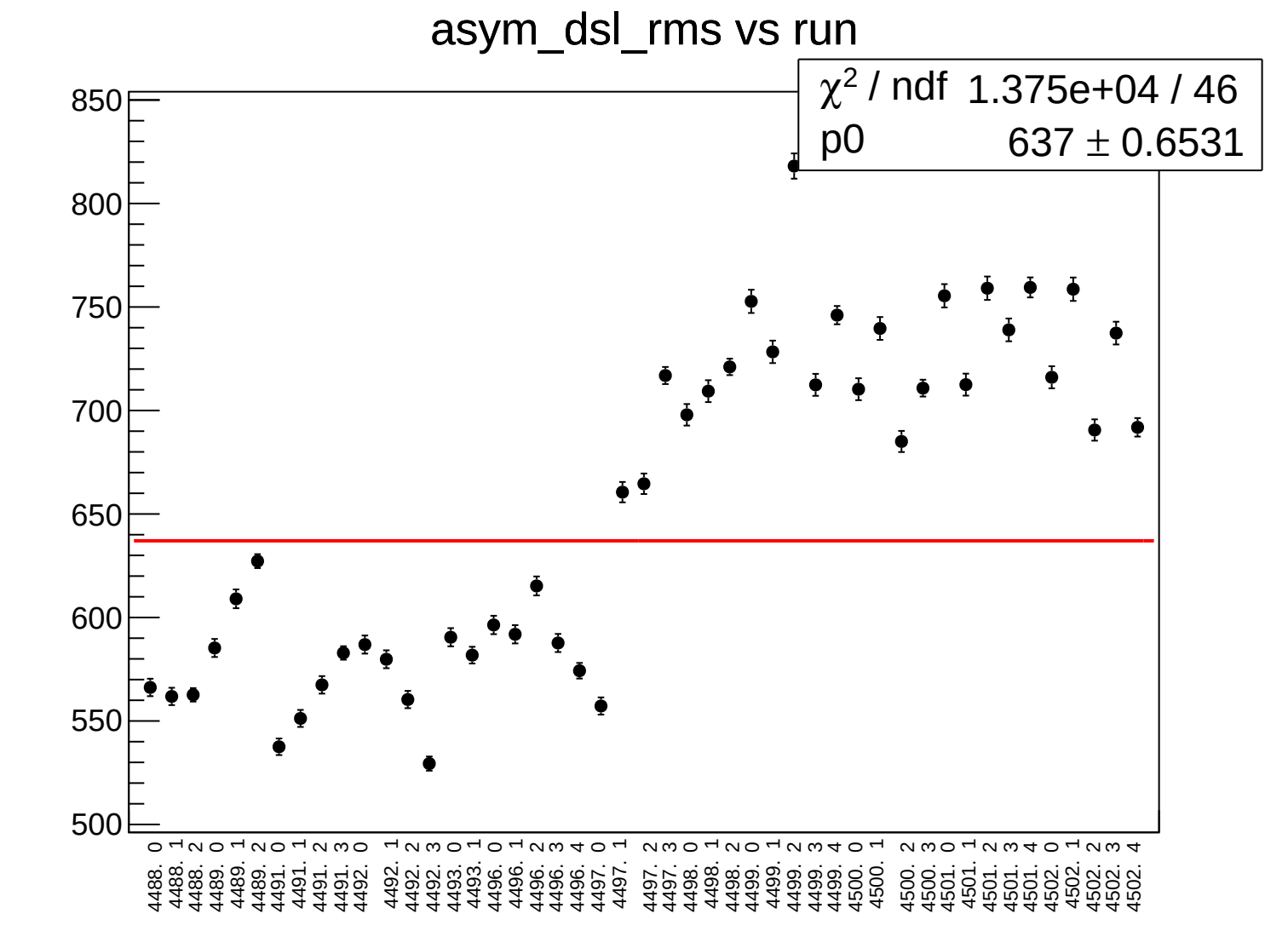

reg_asym_dsl_rms vs run
χ² / ndf 2633 / 46
p0 145.5 ± 0.1483
165
160
155
150
145
140
135
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

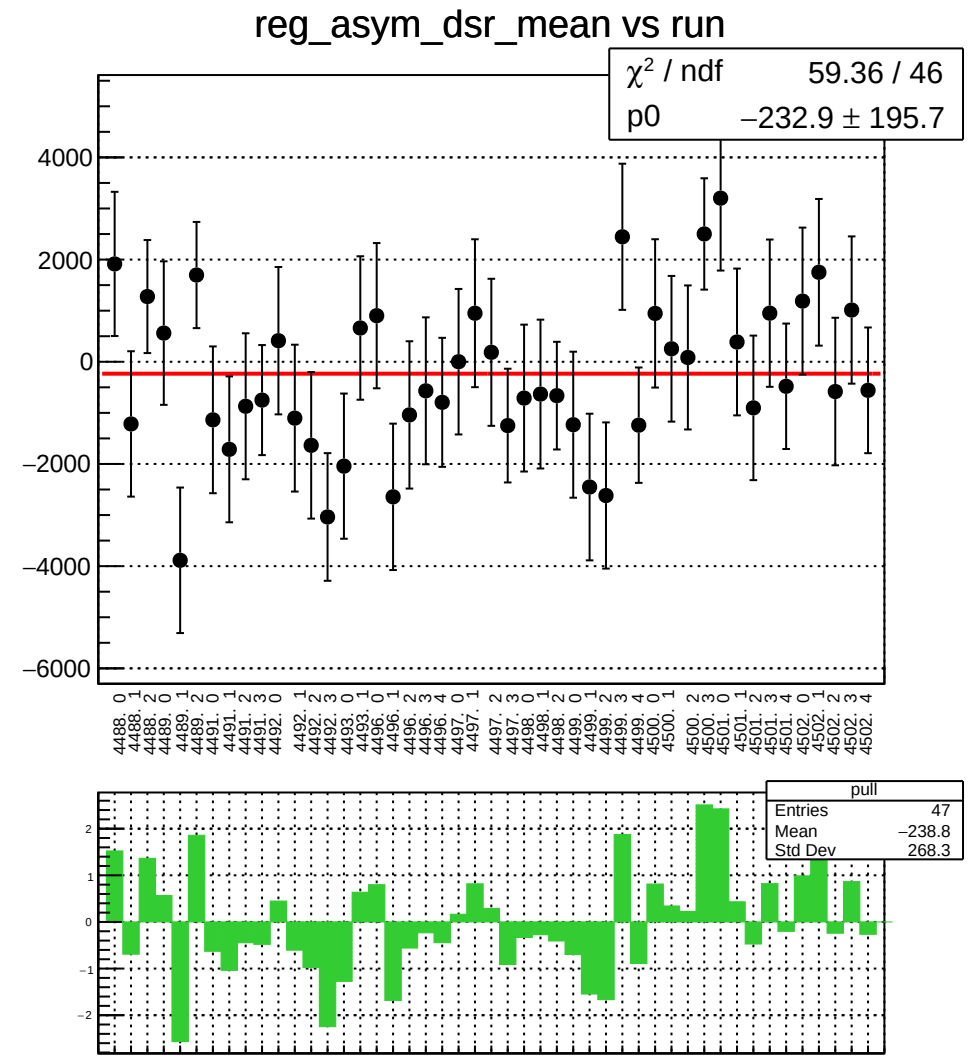

asym_dsl_correction_mean vs run
χ² / ndf 26.73 / 46
p0 −234 ± 897.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 114.6
Std Dev 82.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.01469
Std Dev 0.7539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

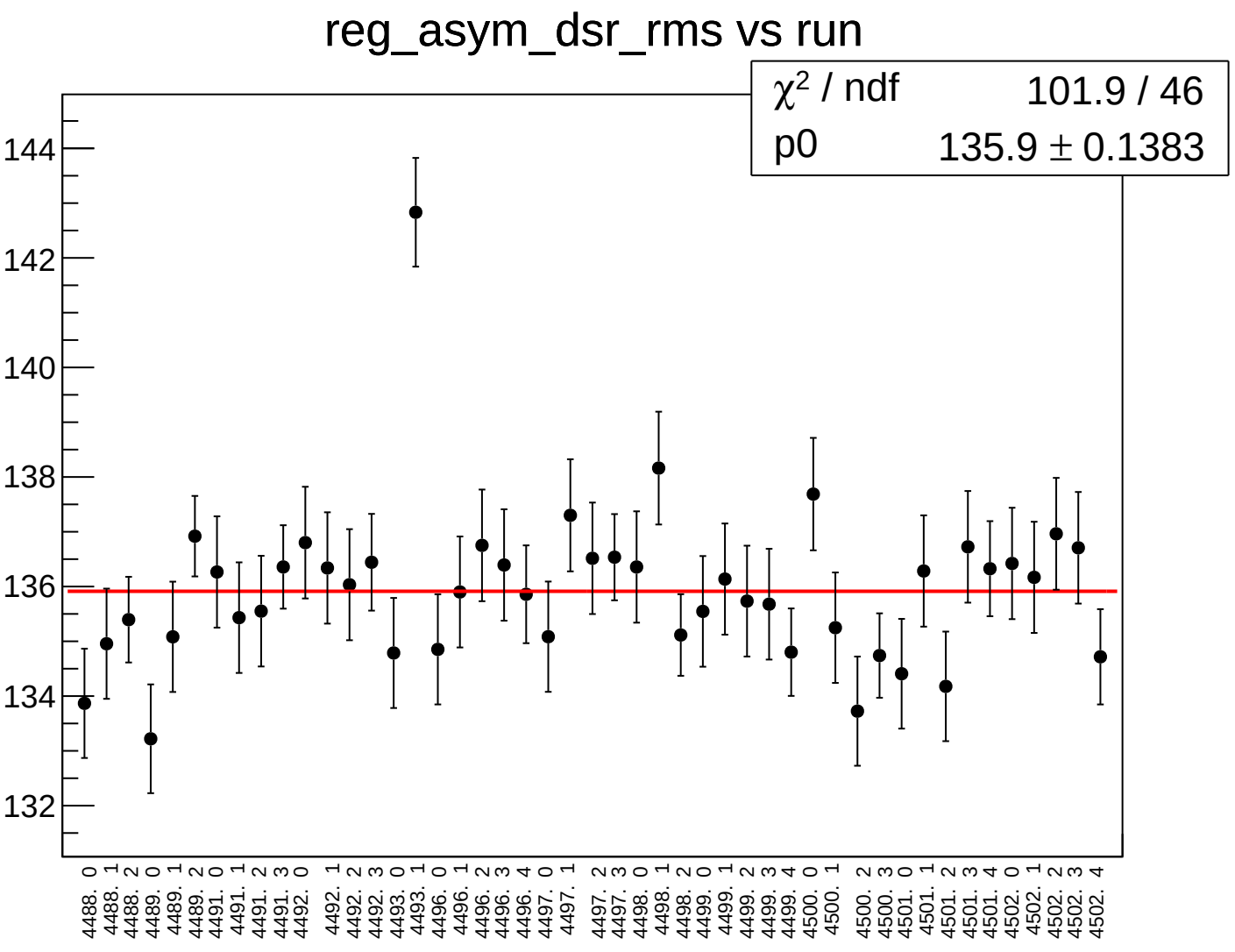

asym_dsl_correction_rms vs run
χ² / ndf 1.547e+04 / 46
p0 618.4 ± 0.6345
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

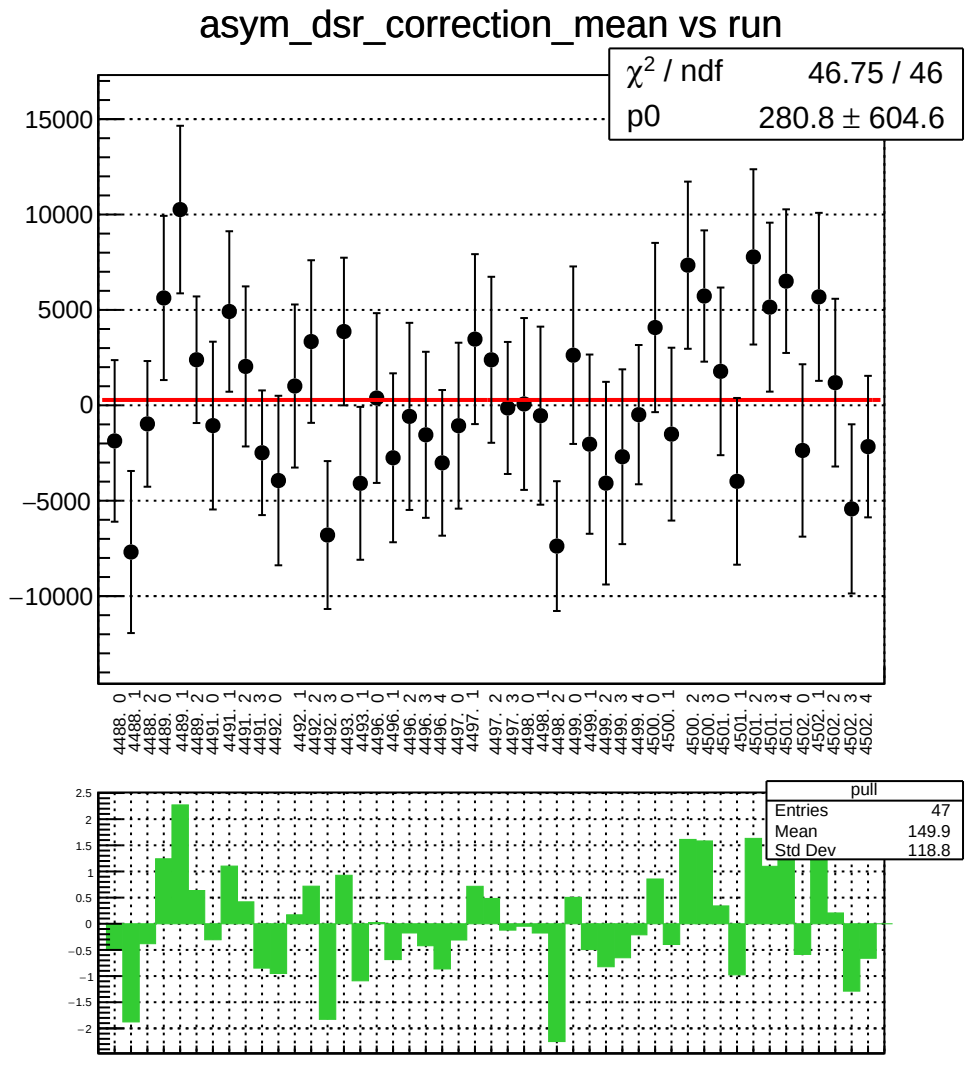

asym_dsl_mean vs run
χ² / ndf 25.48 / 46
p0 −10.73 ± 923.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 142.4
Std Dev 111.1
1
0.5
0
−0.5
−1
−1.5
−2

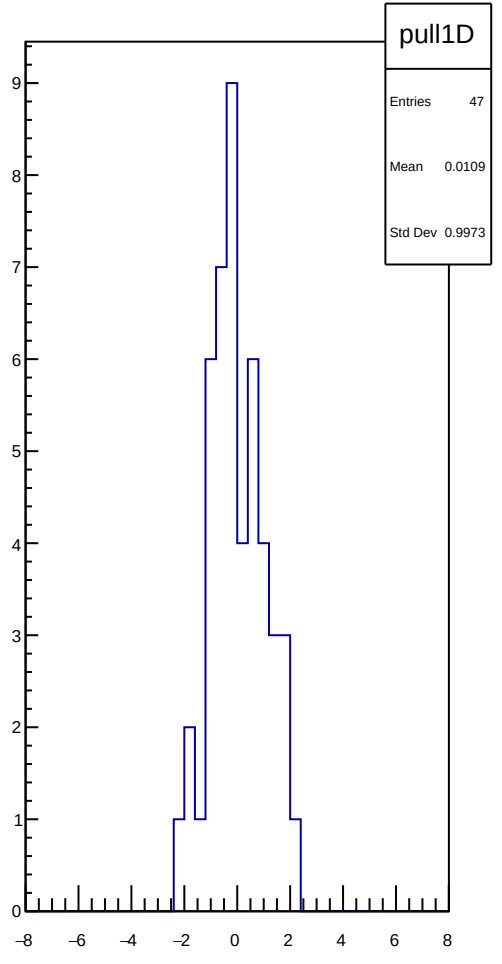

pull1D
Entries 47
Mean 0.01256
Std Dev 0.7362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

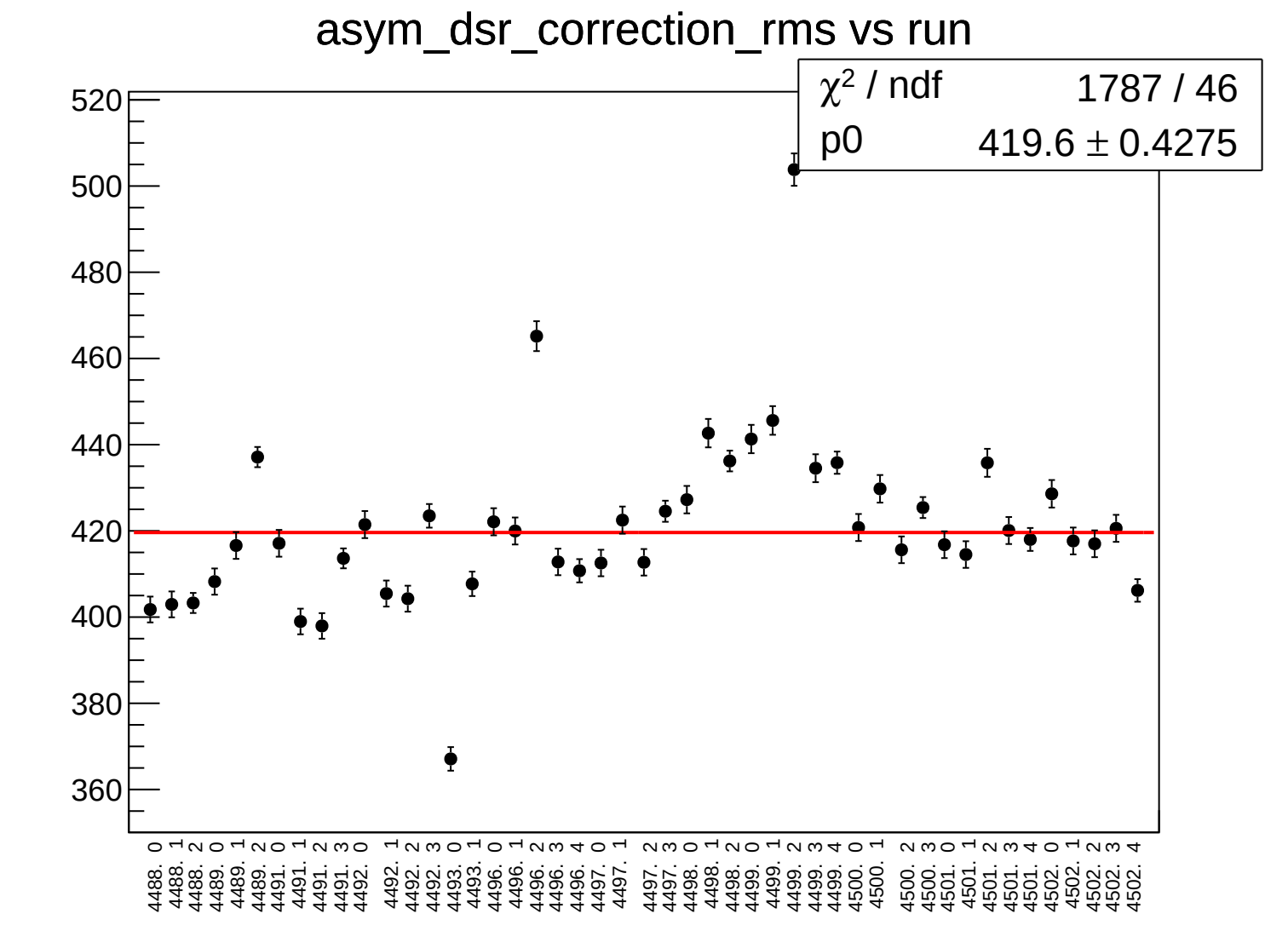

asym_dsl_rms vs run
χ² / ndf 1.375e+04 / 46
p0 637 ± 0.6531
850
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

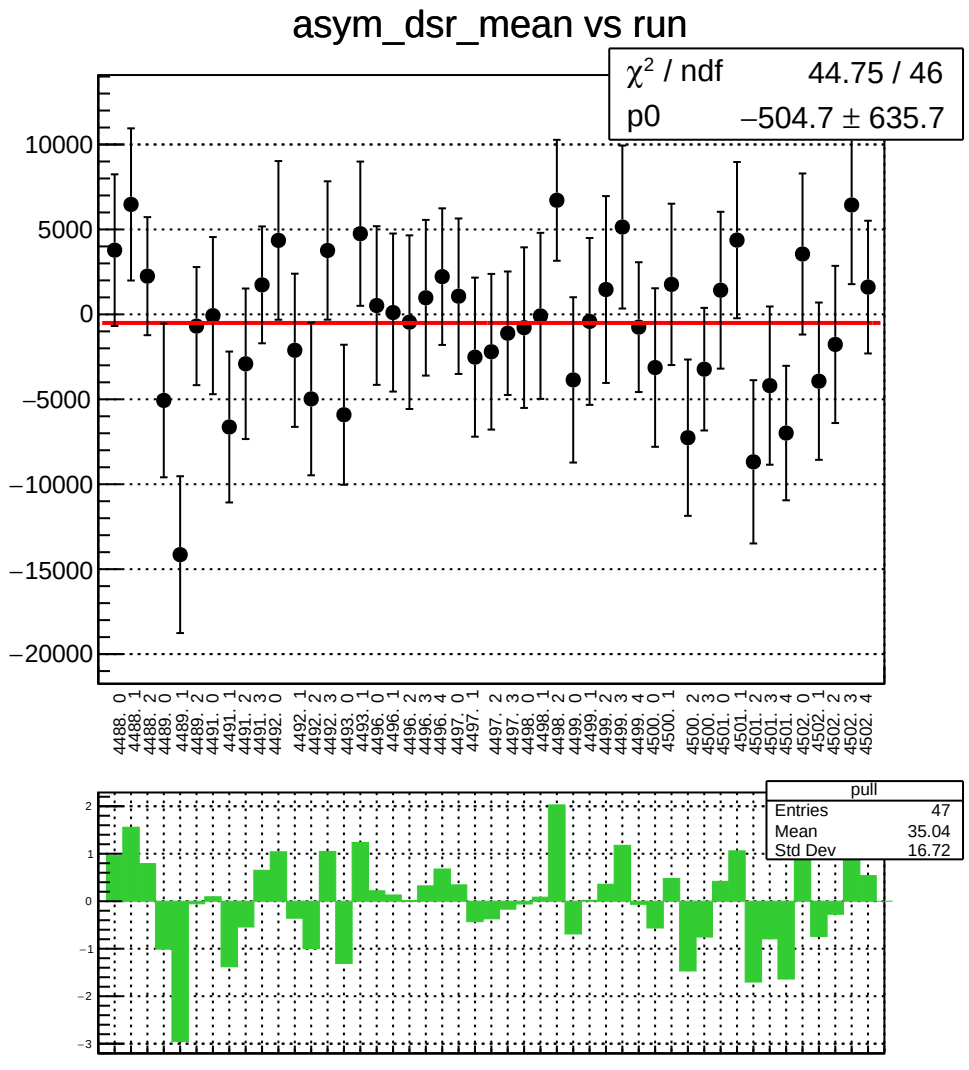

reg_asym_dsr_mean vs run
χ² / ndf 59.36 / 46
p0 −232.9 ± 195.7
4000
2000
0
−2000
−4000
−6000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −238.8
Std Dev 268.3
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.01369
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

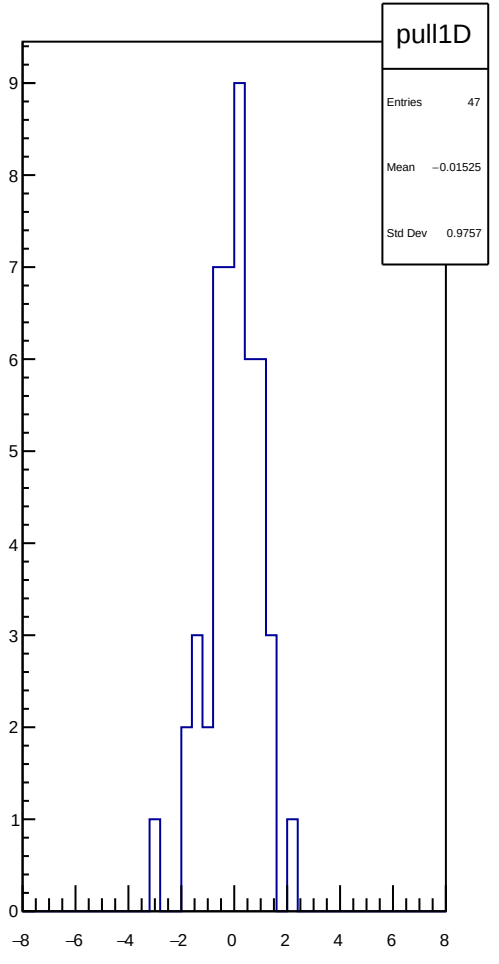

reg_asym_dsr_rms vs run
χ^2 / ndf 101.9 / 46
p0 135.9 ± 0.1383
144
142
140
138
136
134
132
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

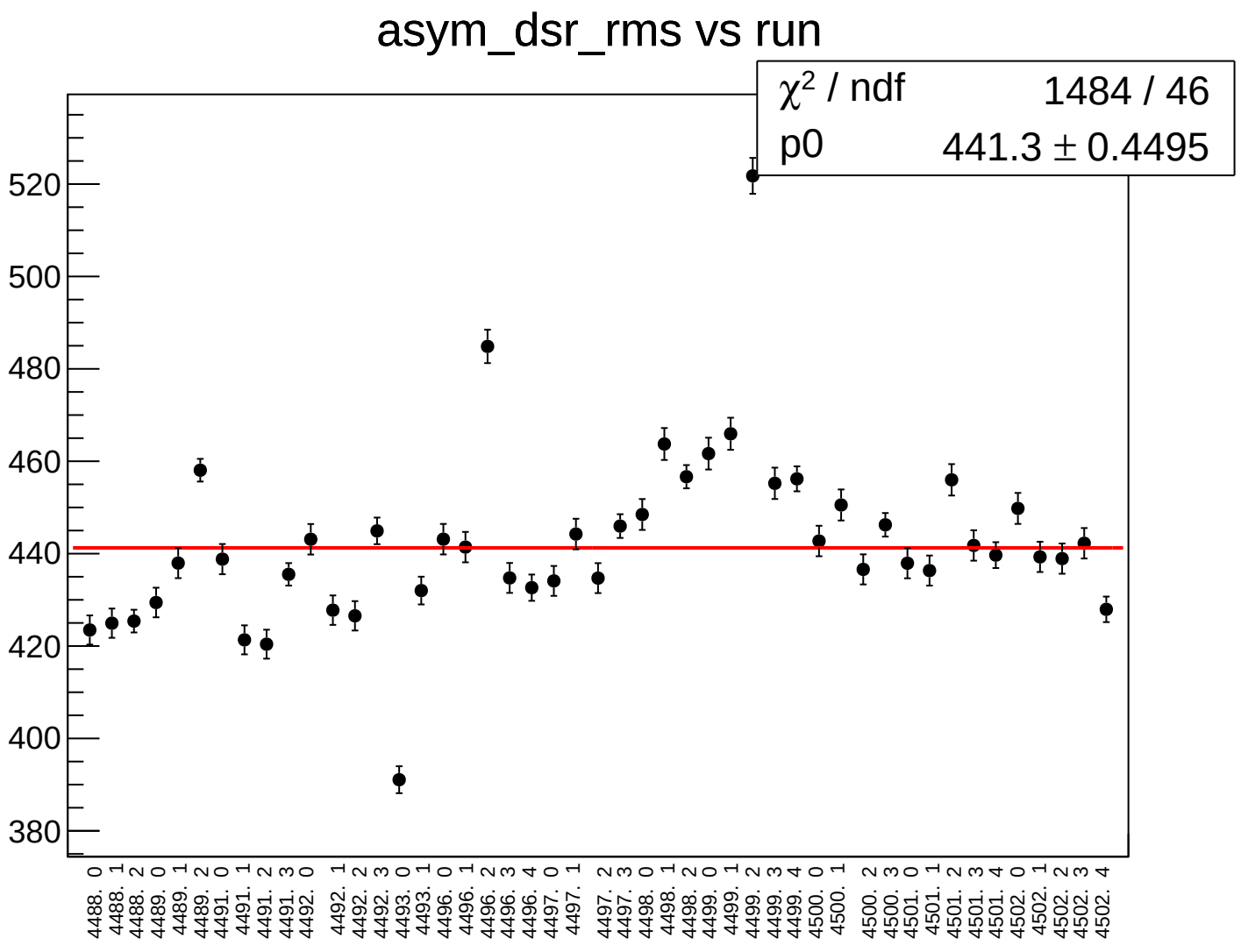

asym_dsr_correction_mean vs run
χ² / ndf 46.75 / 46
p0 280.8 ± 604.6
15000
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 149.9
Std Dev 118.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

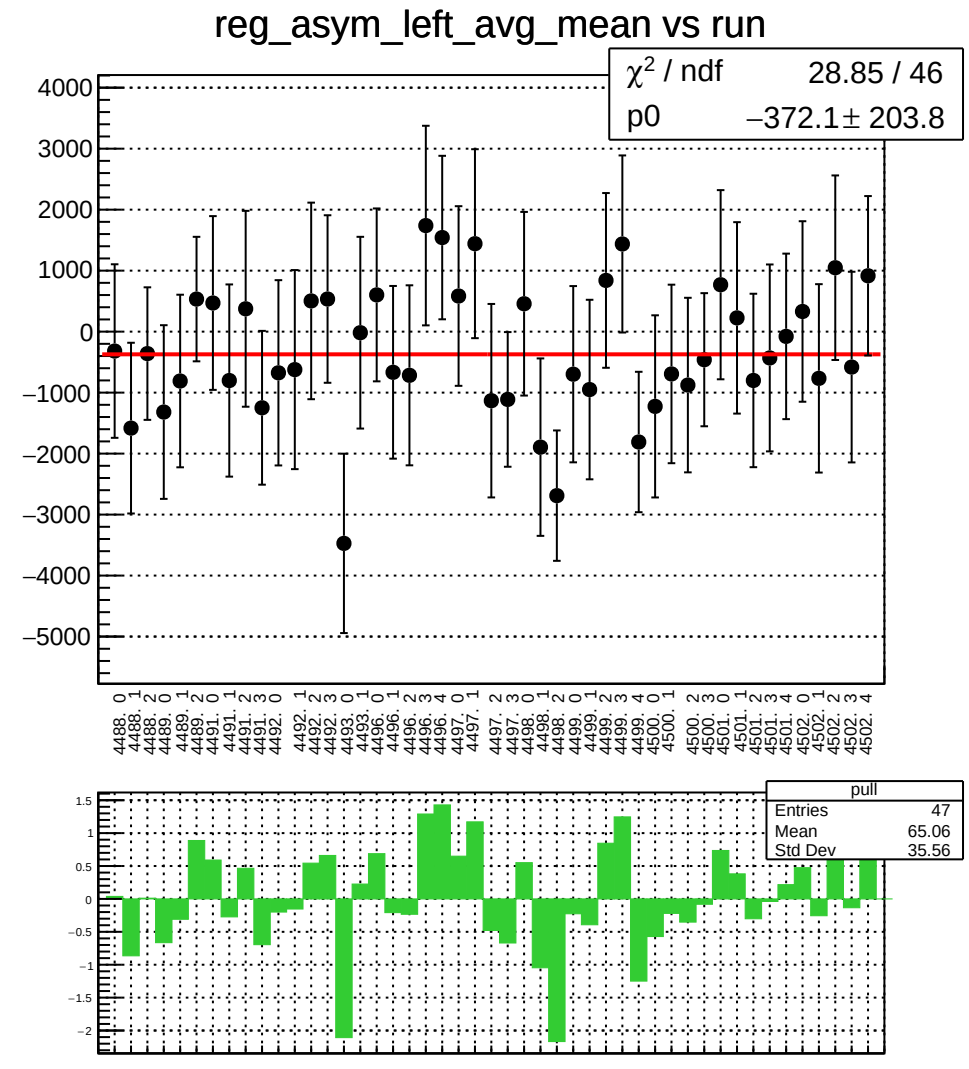

pull1D
Entries 47
Mean 0.0109
Std Dev 0.9973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

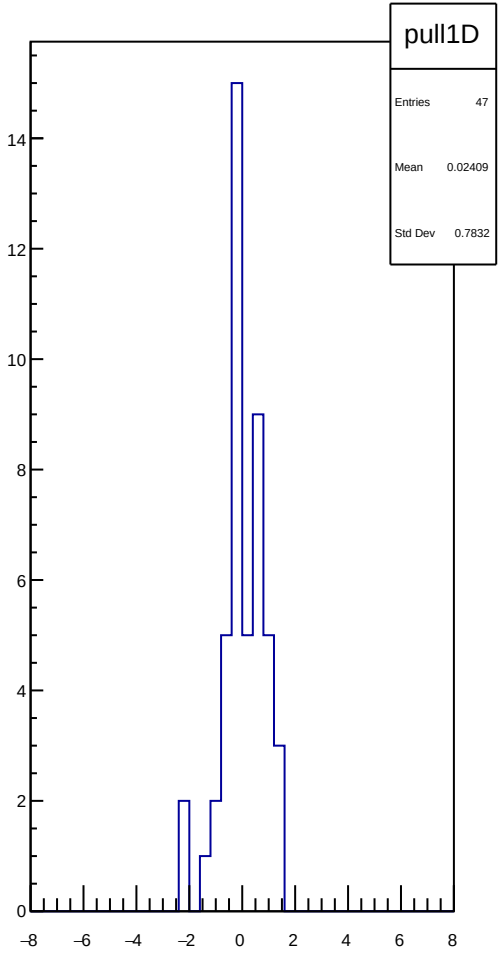

asym_dsr_correction_rms vs run
χ² / ndf 1787 / 46
p0 419.6 ± 0.4275
520
500
480
460
440
420
400
380
360
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

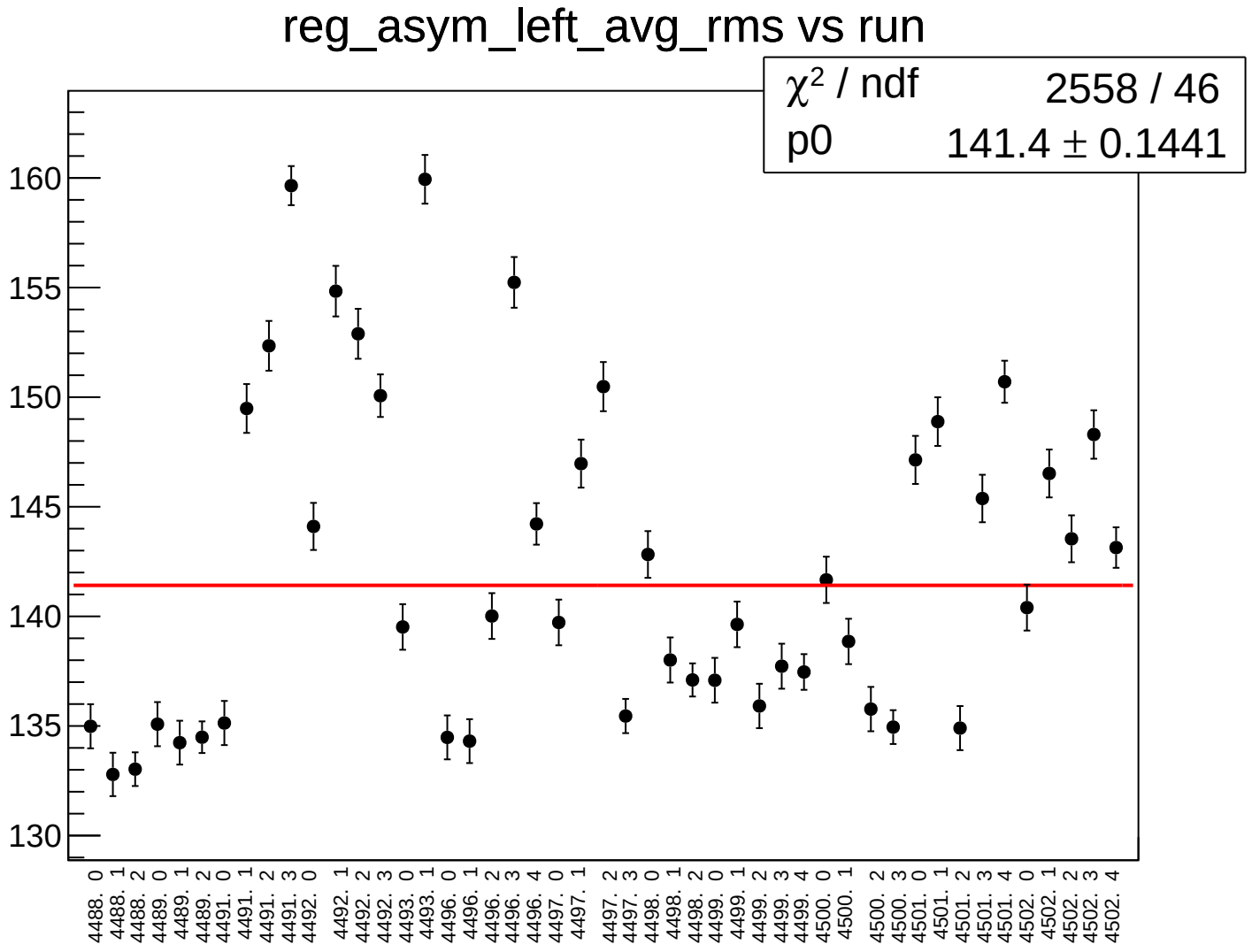

asym_dsr_mean vs run
χ² / ndf 44.75 / 46
p0 −504.7 ± 635.7
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 35.04
Std Dev 16.72
2
1
0
−1
−2
−3

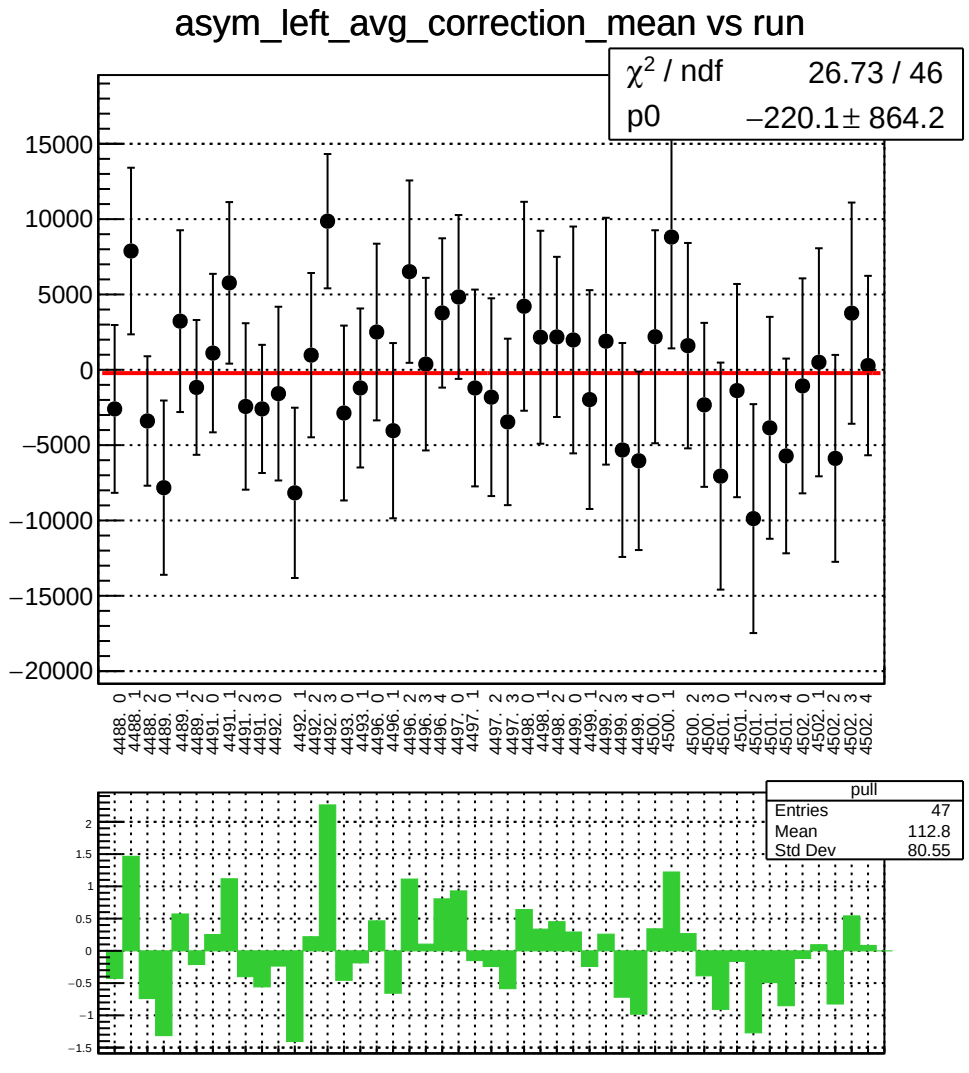

pull1D
Entries 47
Mean −0.01525
Std Dev 0.9757
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

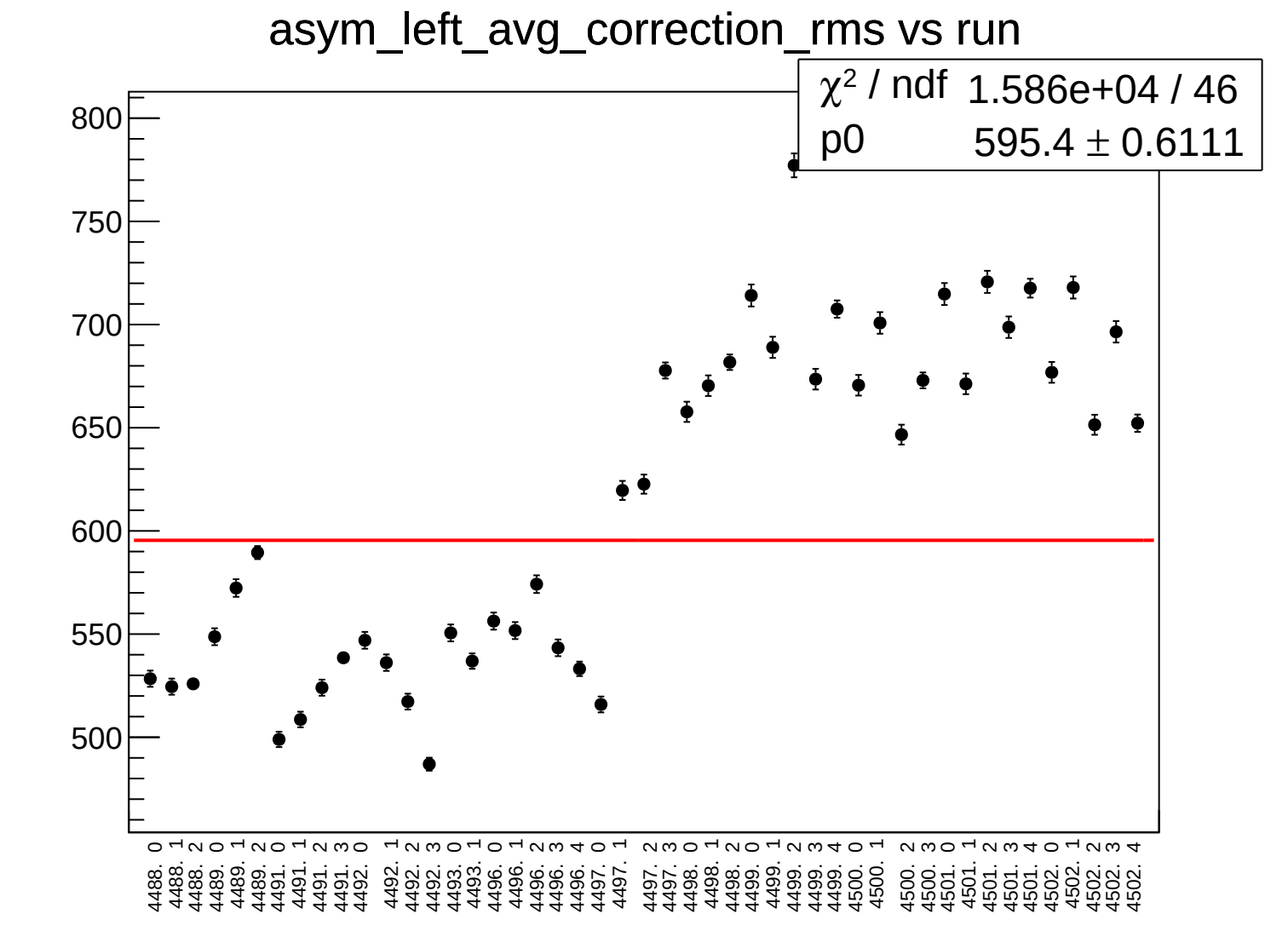

asym_dsr_rms vs run
χ² / ndf 1484 / 46
p0 441.3 ± 0.4495
520
500
480
460
440
420
400
380
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

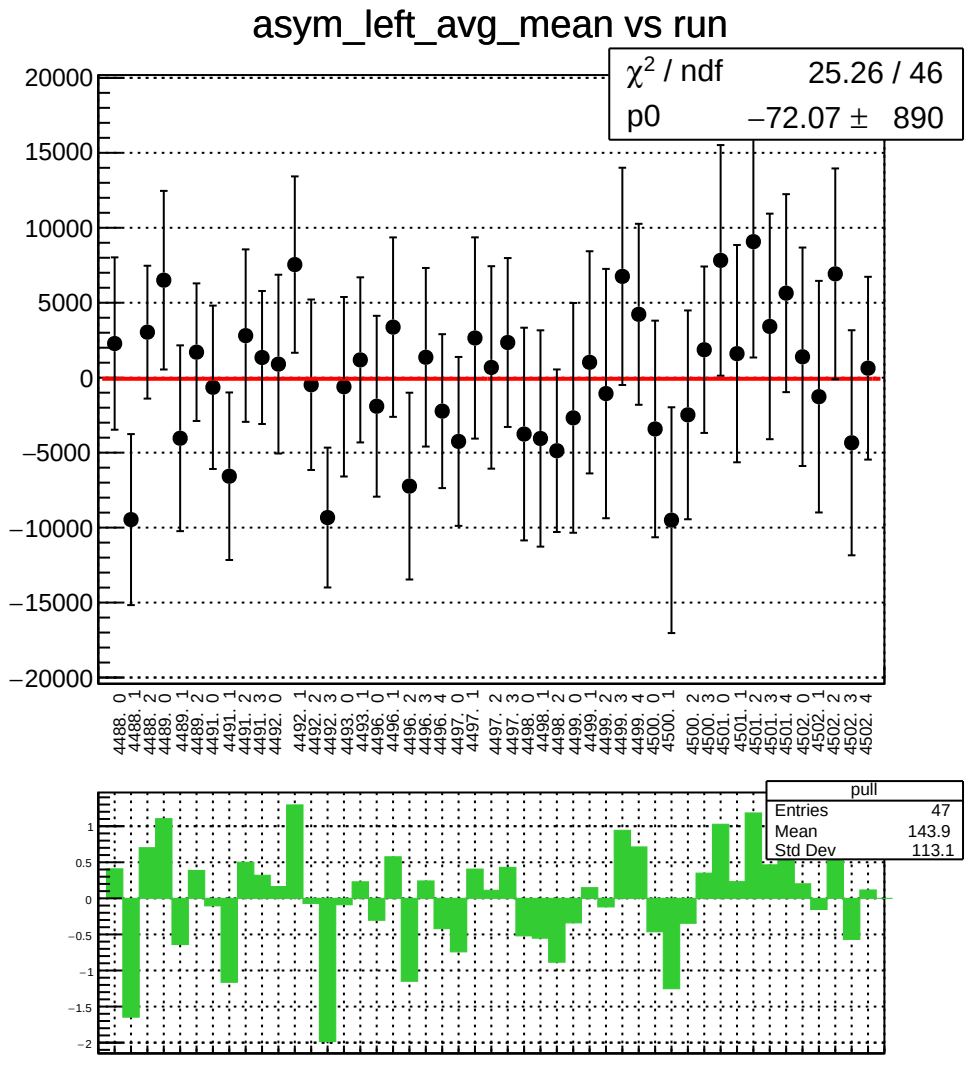

reg_asym_left_avg_mean vs run
χ² / ndf 28.85 / 46
p0 −372.1± 203.8
pull
Entries 47
Mean 65.06
Std Dev 35.56

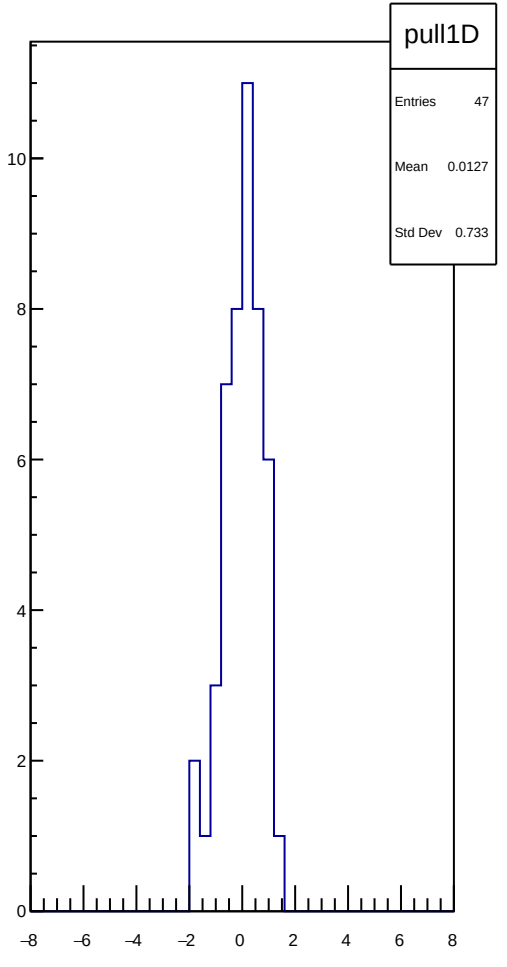

pull1D
Entries 47
Mean 0.02409
Std Dev 0.7832

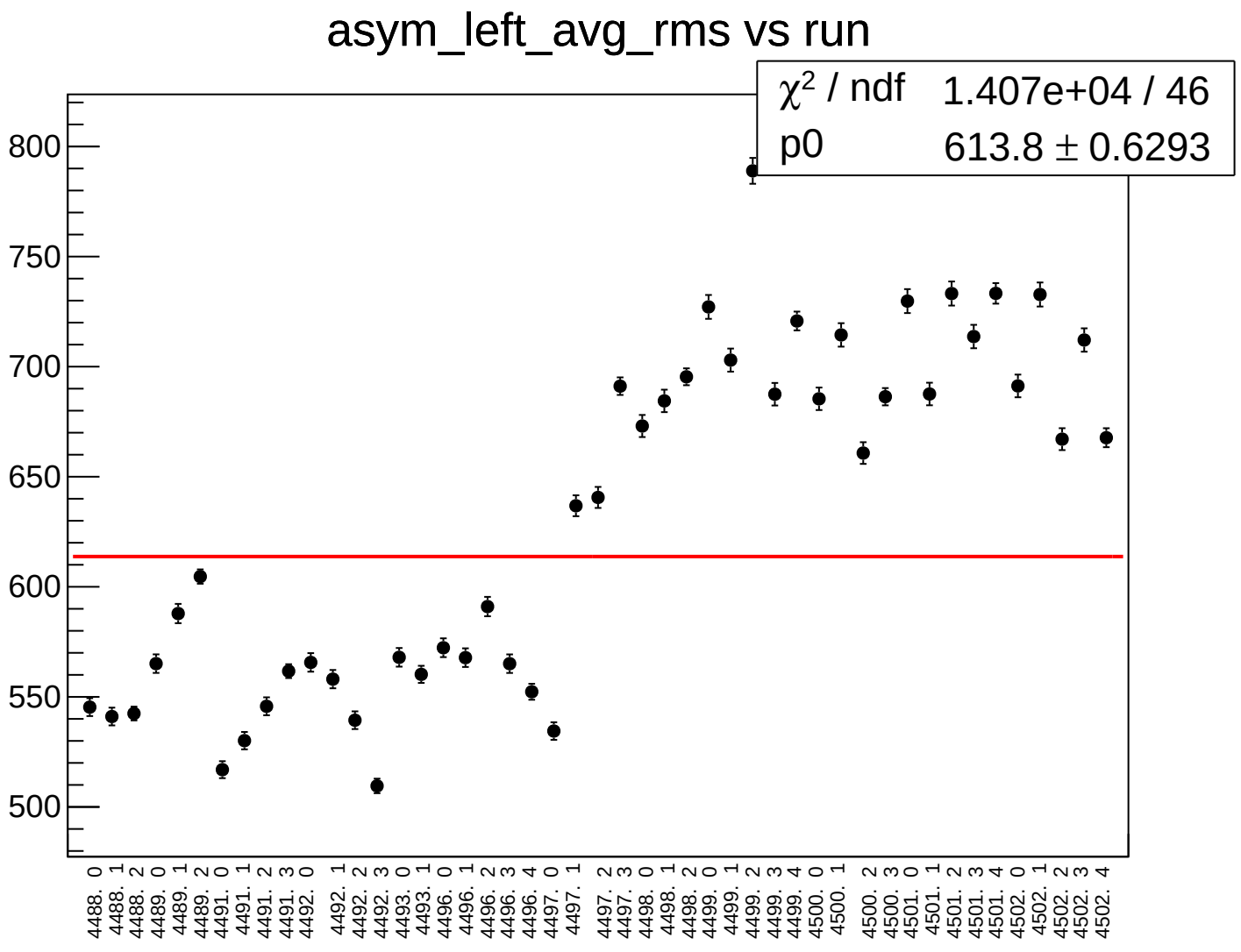

reg_asym_left_avg_rms vs run
χ² / ndf 2558 / 46
p0 141.4 ± 0.1441
160
155
150
145
140
135
130
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

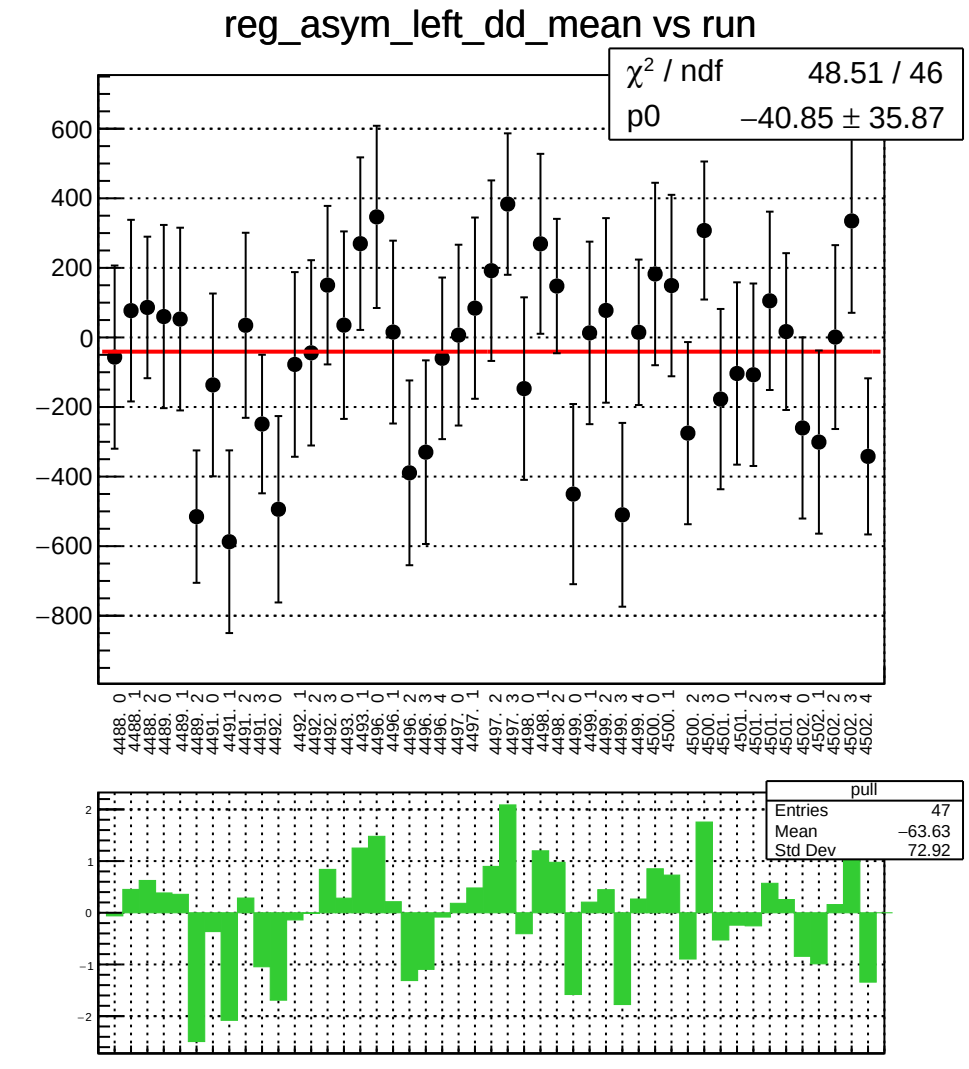

asym_left_avg_correction_mean vs run
χ² / ndf 26.73 / 46
p0 −220.1 ± 864.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 112.8
Std Dev 80.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.01479
Std Dev 0.7539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

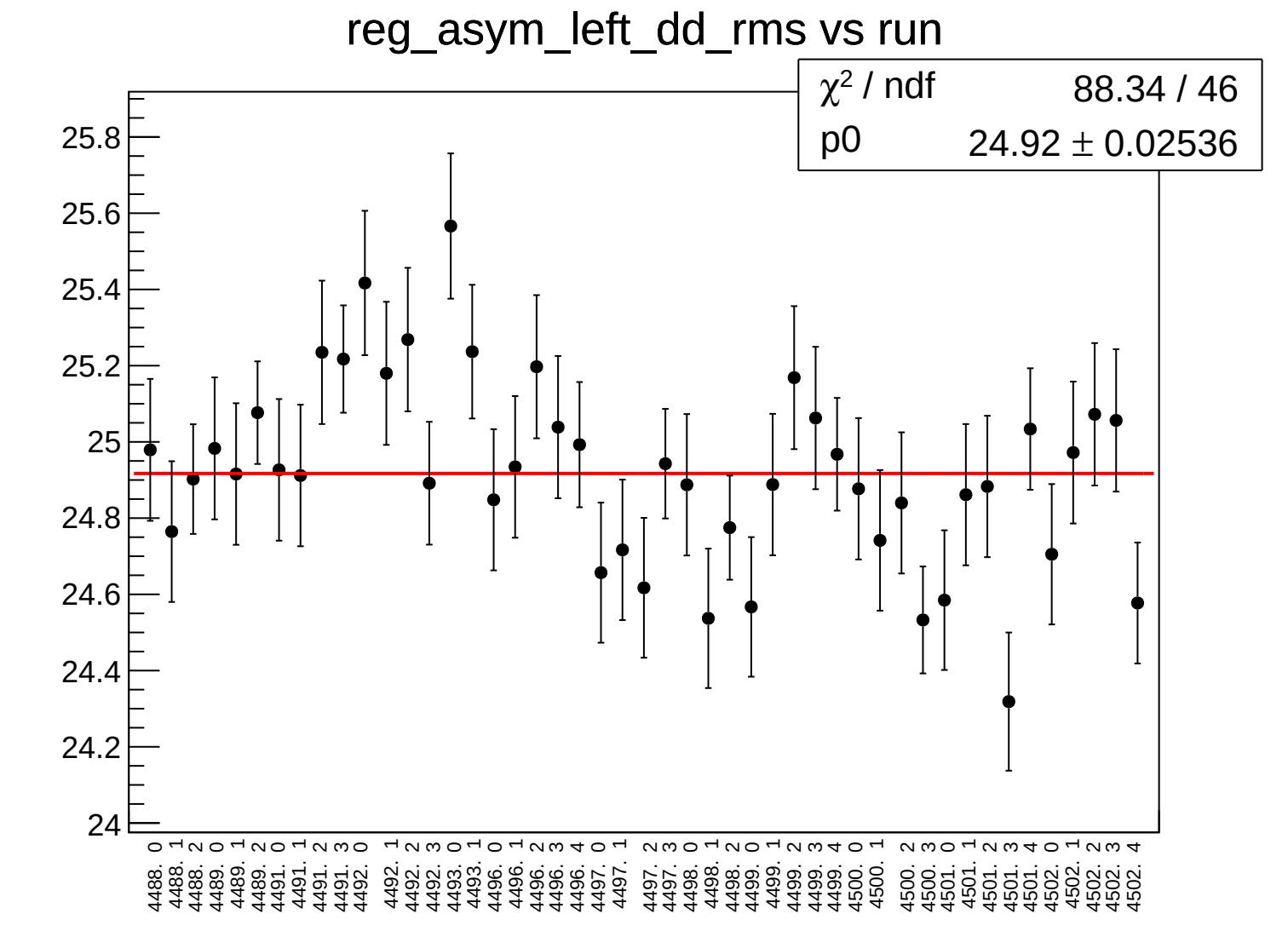

asym_left_avg_correction_rms vs run
χ² / ndf 1.586e+04 / 46
p0 595.4 ± 0.6111
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_left_avg_mean vs run
χ² / ndf 25.26 / 46
p0 −72.07 ± 890
pull
Entries 47
Mean 143.9
Std Dev 113.1


pull1D
Entries 47
Mean 0.0127
Std Dev 0.733


asym_left_avg_rms vs run
χ² / ndf 1.407e+04 / 46
p0 613.8 ± 0.6293
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


reg_asym_left_dd_mean vs run
χ² / ndf 48.51 / 46
p0 −40.85 ± 35.87
600
400
200
0
−200
−400
−600
−800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −63.63
Std Dev 72.92
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.01207
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_dd_rms vs run
χ² / ndf 88.34 / 46
p0 24.92 ± 0.02536
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
24.2
24
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
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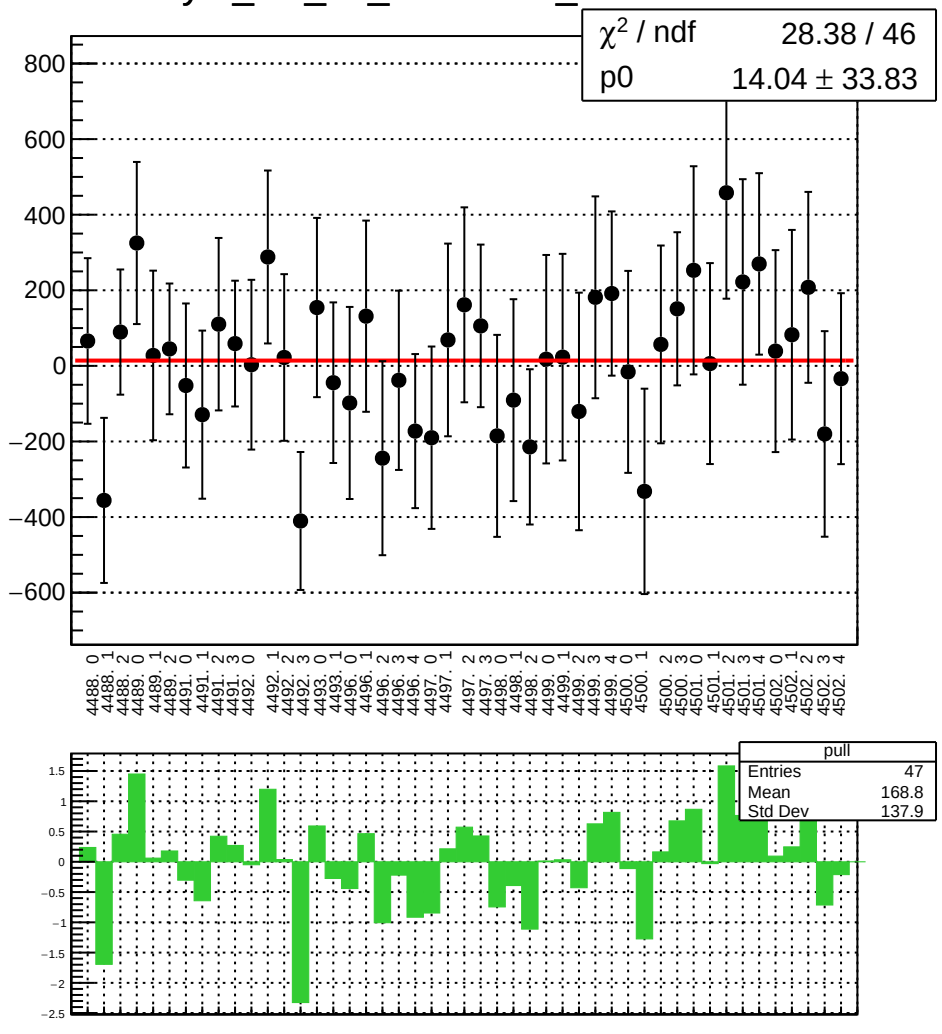
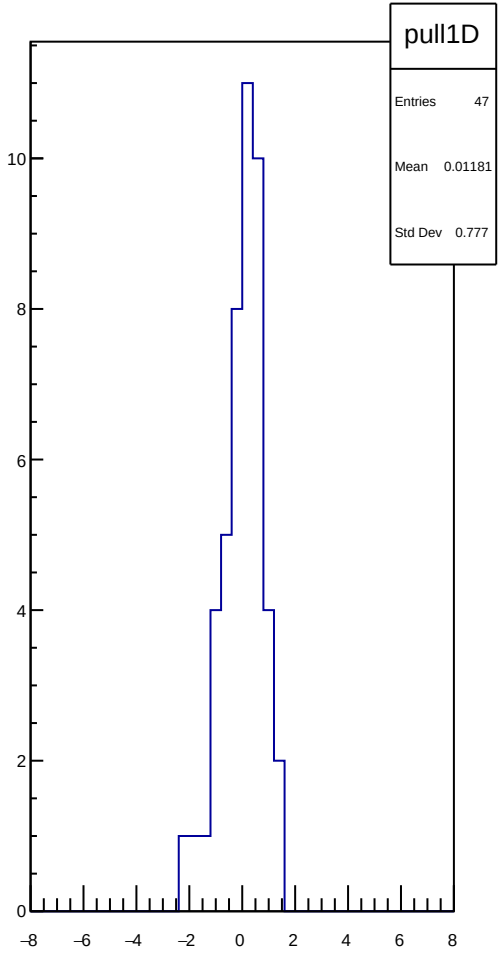
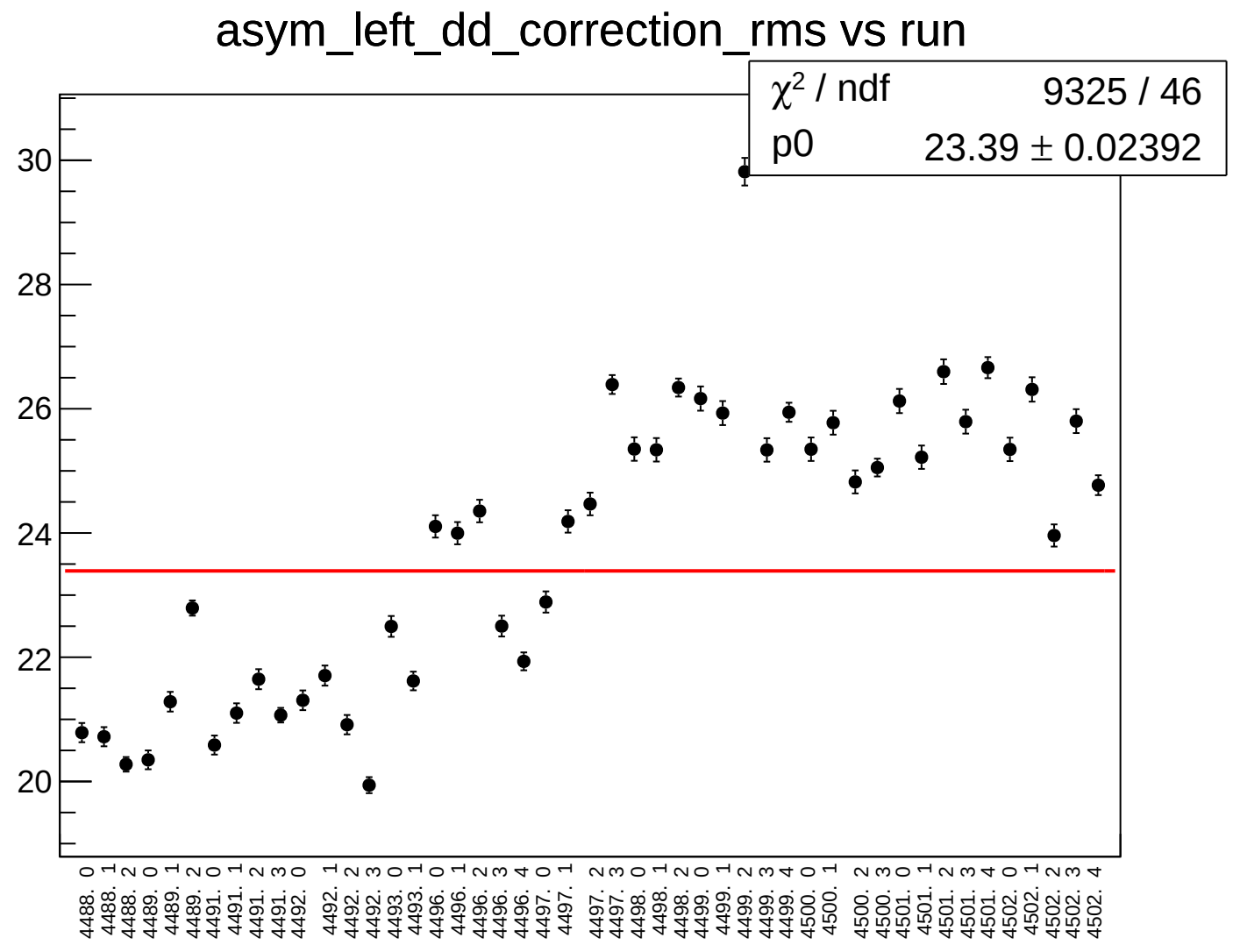
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_left_dd_correction_mean vs run
χ² / ndf 28.38 / 46
p0 14.04 ± 33.83
pull
Entries 47
Mean 168.8
Std Dev 137.9


pull1D
Entries 47
Mean 0.01181
Std Dev 0.777


asym_left_dd_correction_rms vs run
χ^2 / ndf 9325 / 46
p0 23.39 ± 0.02392
30
28
26
24
22
20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
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4491. 3
4492. 0
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4492. 2
4492. 3
4493. 0
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4496. 0
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4496. 2
4496. 3
4496. 4
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4497. 1
4497. 2
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4499. 0
4499. 1
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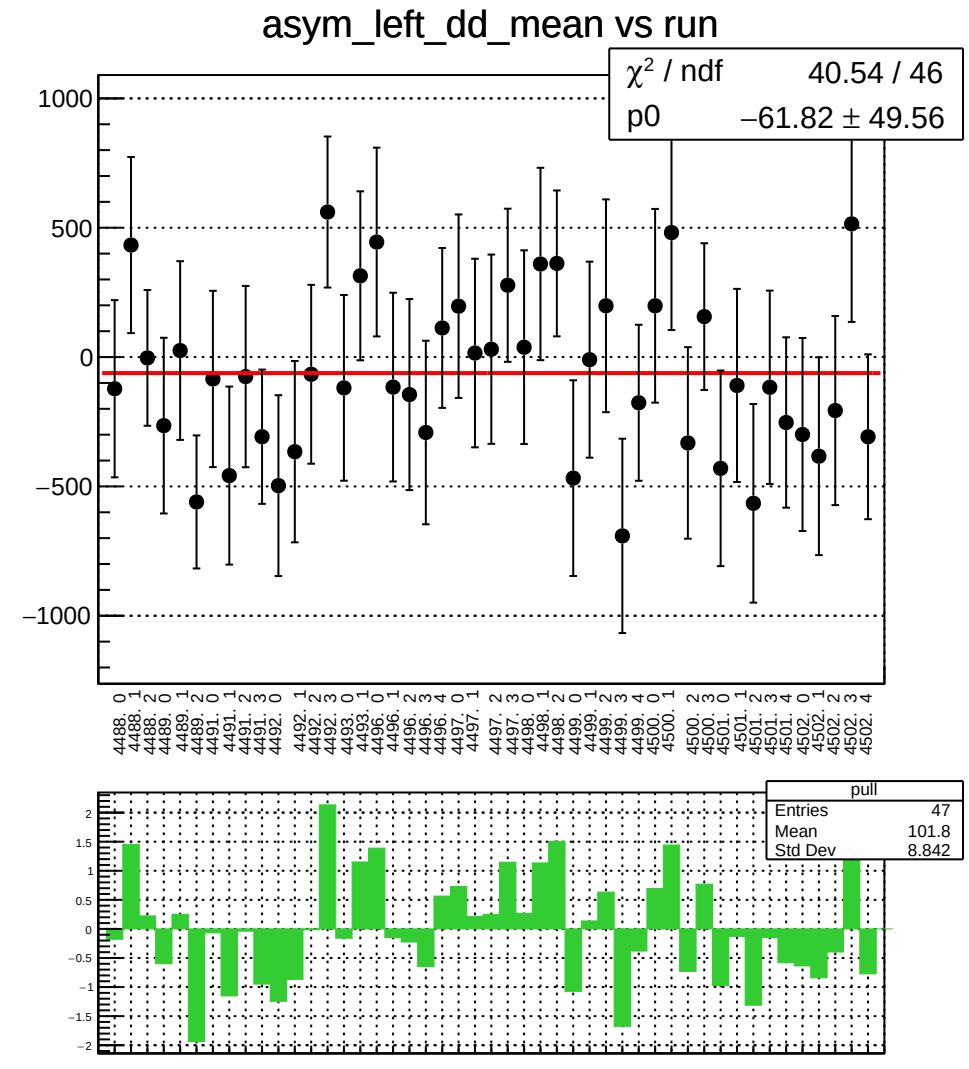
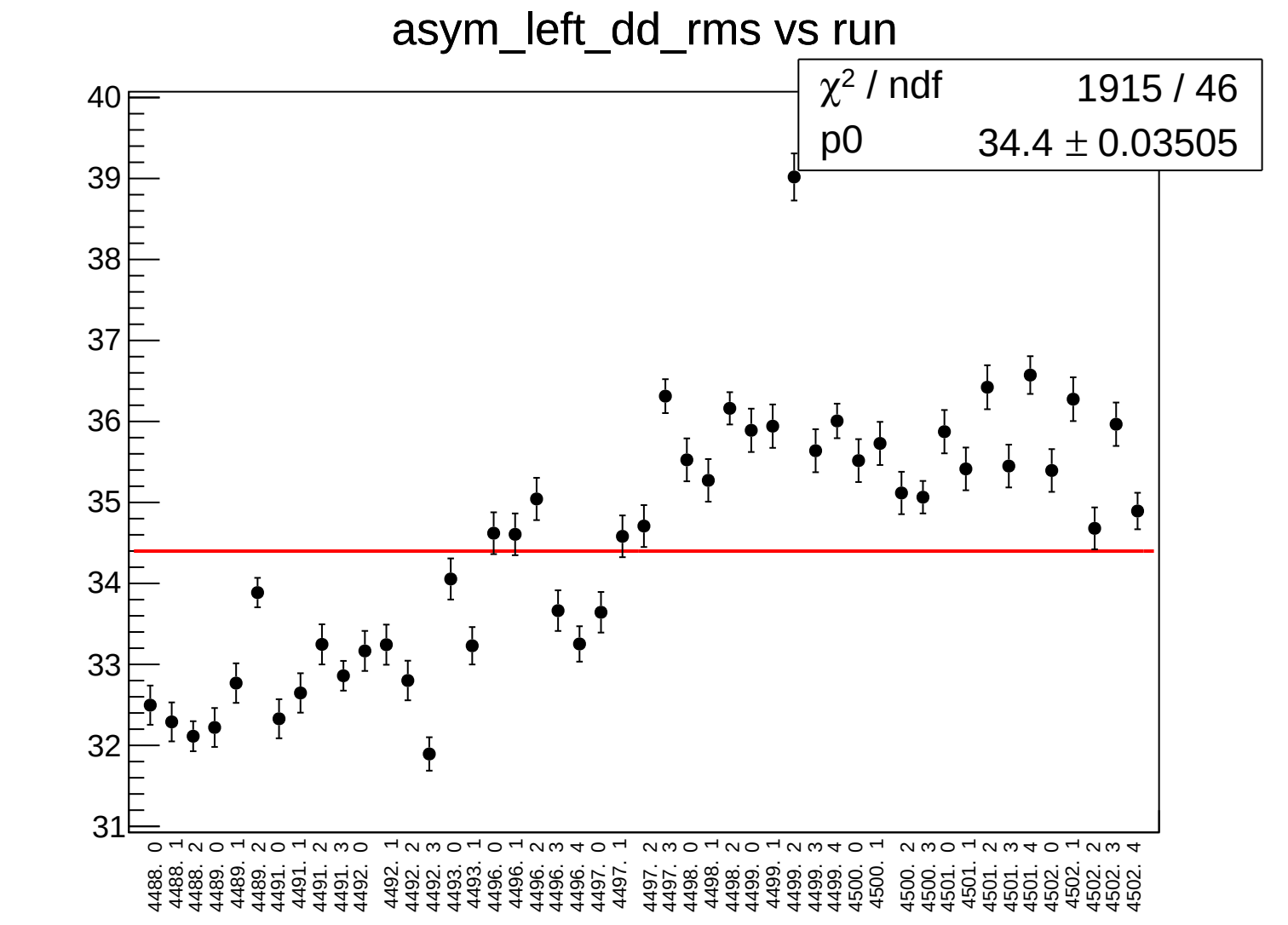
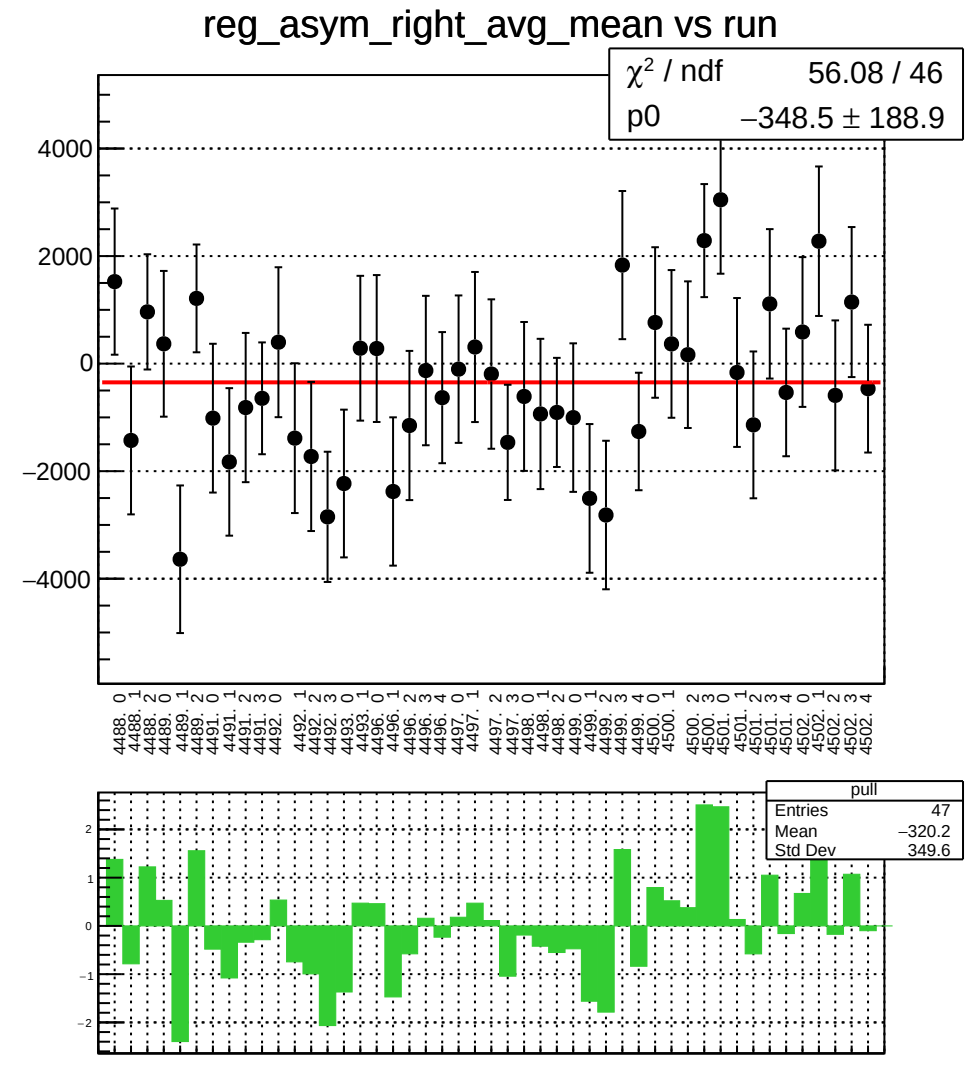
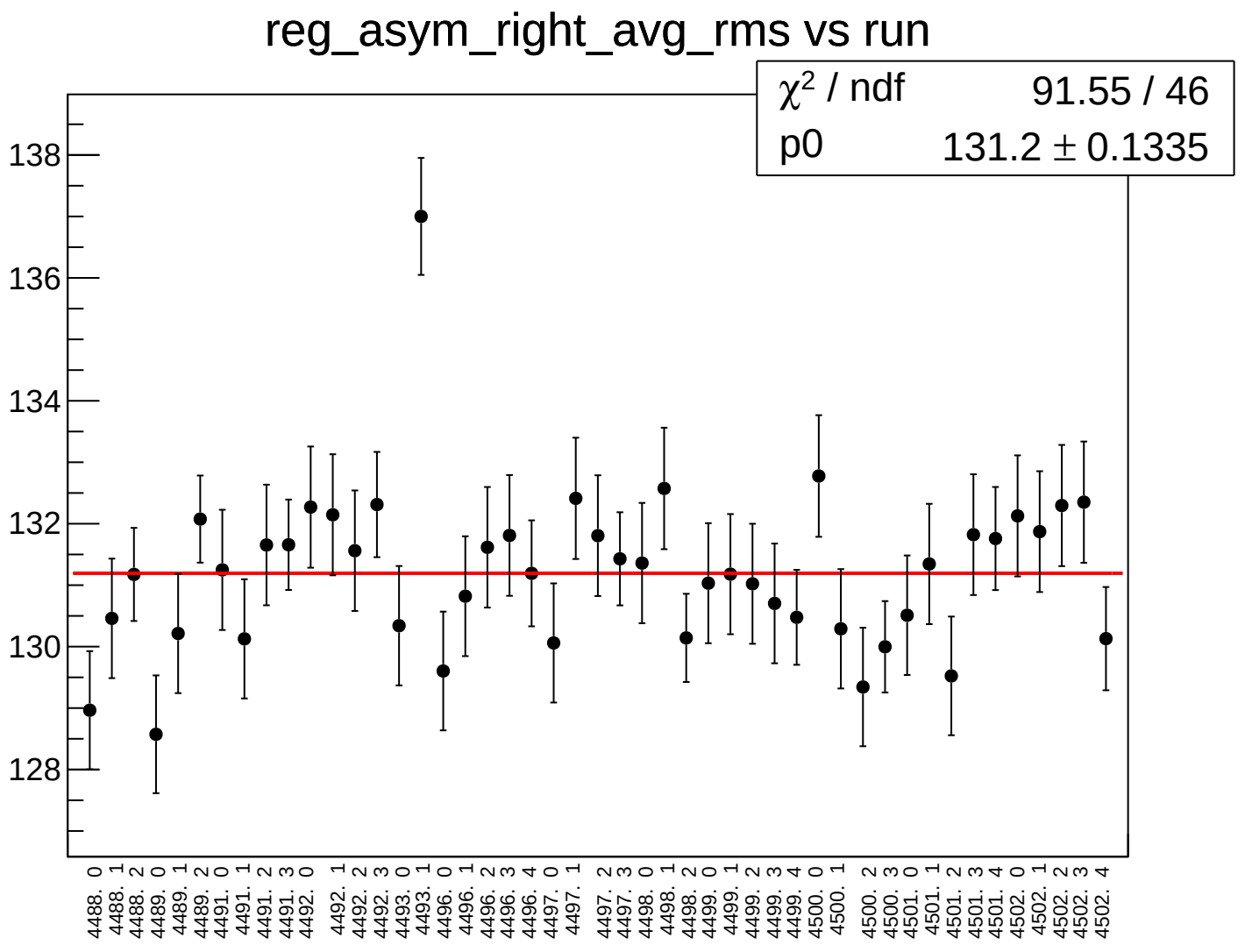
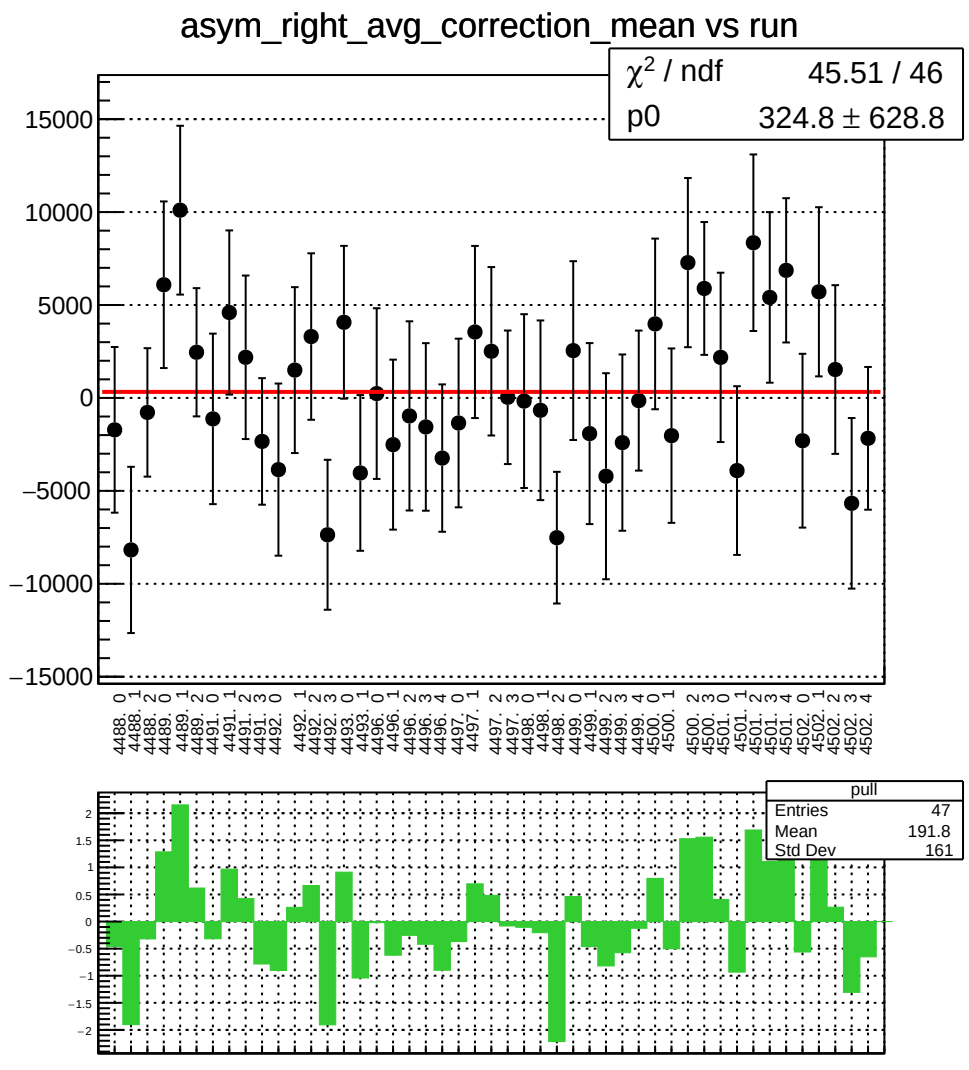
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

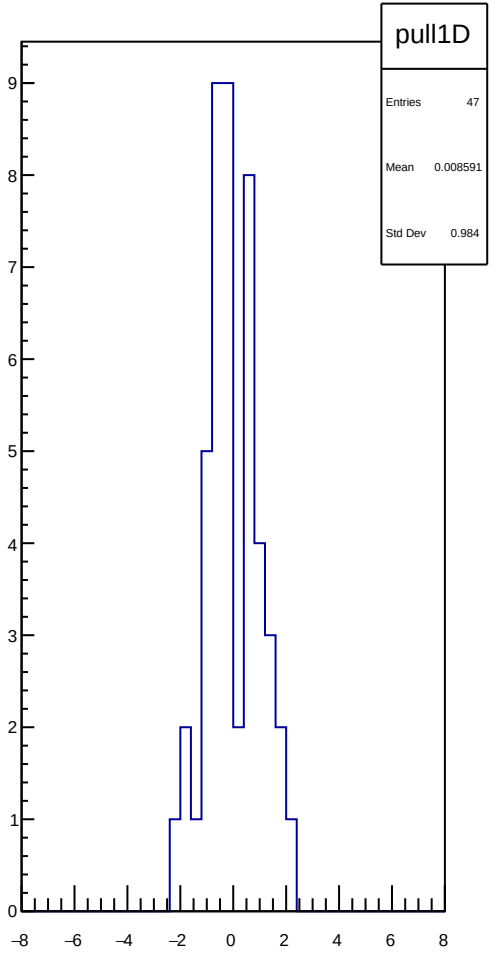

asym_left_dd_mean vs run
χ² / ndf 40.54 / 46
p0 −61.82 ± 49.56
1000
500
0
−500
−1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 101.8
Std Dev 8.842
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.005652
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

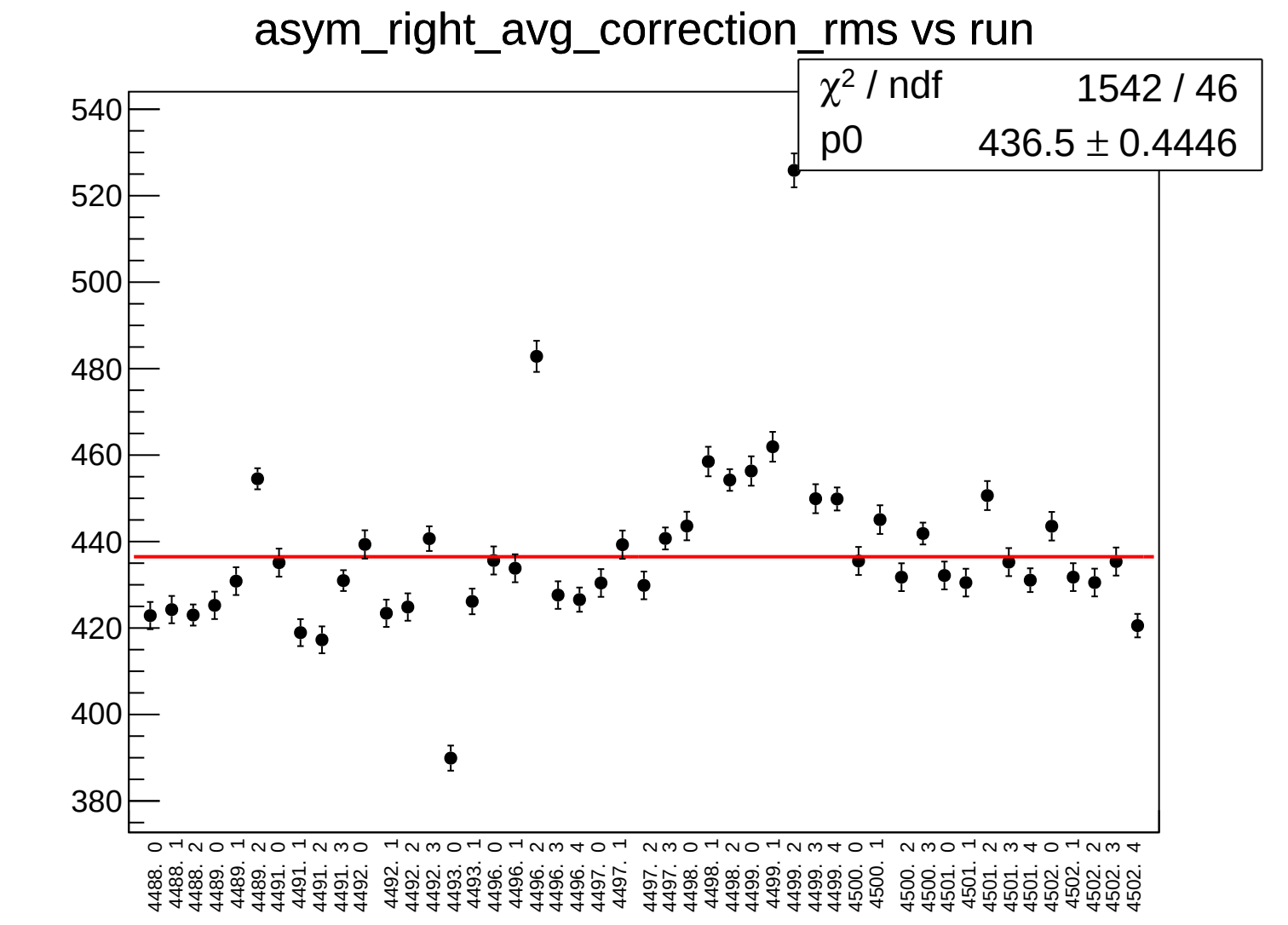

asym_left_dd_rms vs run
χ² / ndf 1915 / 46
p0 34.4 ± 0.03505
40
39
38
37
36
35
34
33
32
31
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

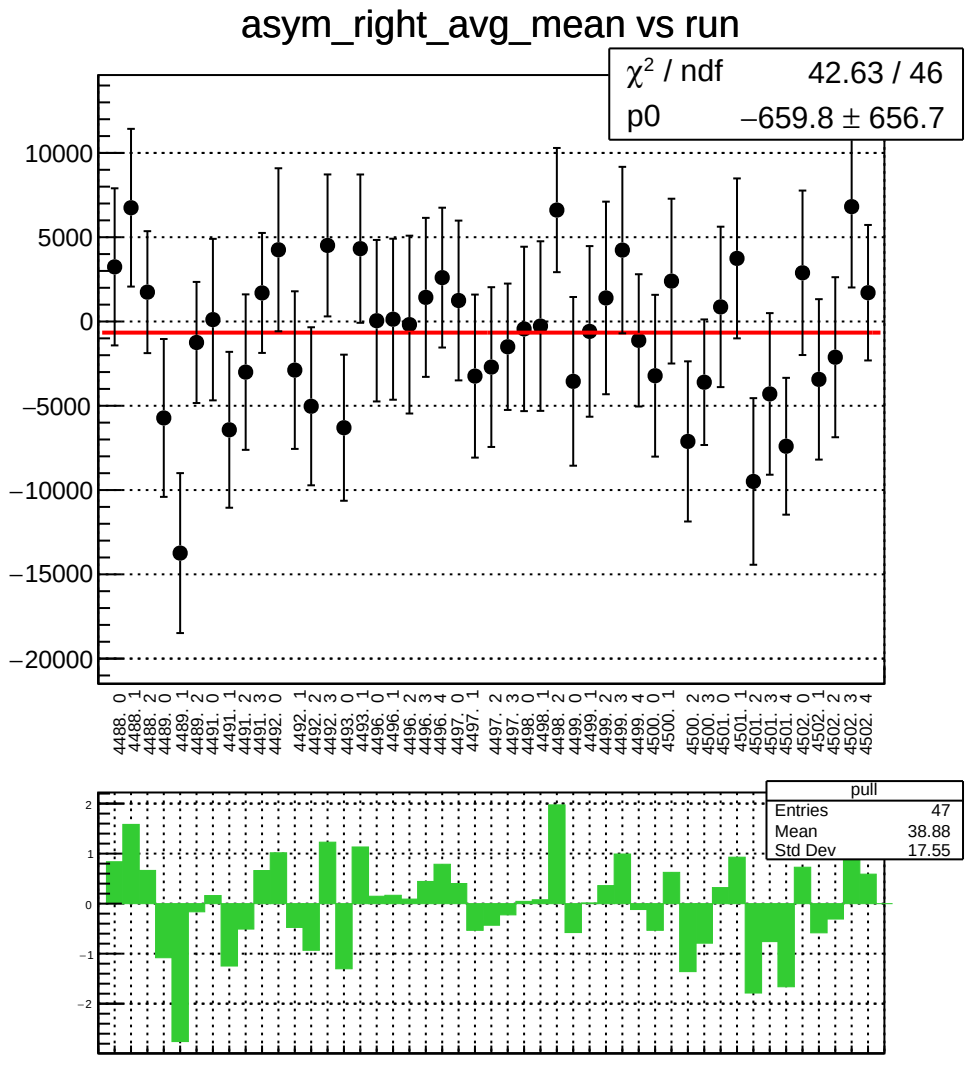

reg_asym_right_avg_mean vs run
χ² / ndf 56.08 / 46
p0 −348.5 ± 188.9
4000
2000
0
−2000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −320.2
Std Dev 349.6
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.01167
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

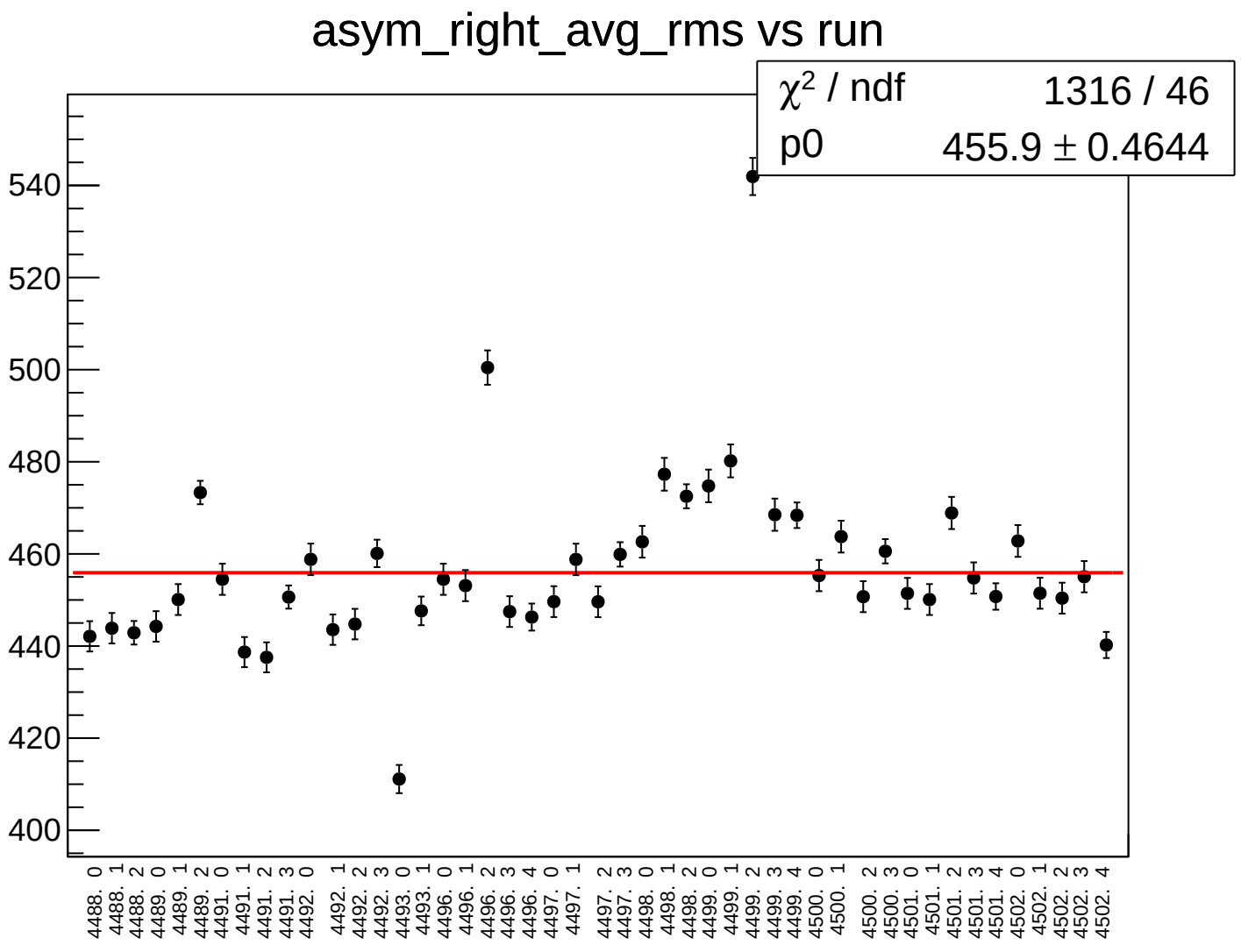

reg_asym_right_avg_rms vs run
χ^2 / ndf 91.55 / 46
p0 131.2 ± 0.1335
138
136
134
132
130
128
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

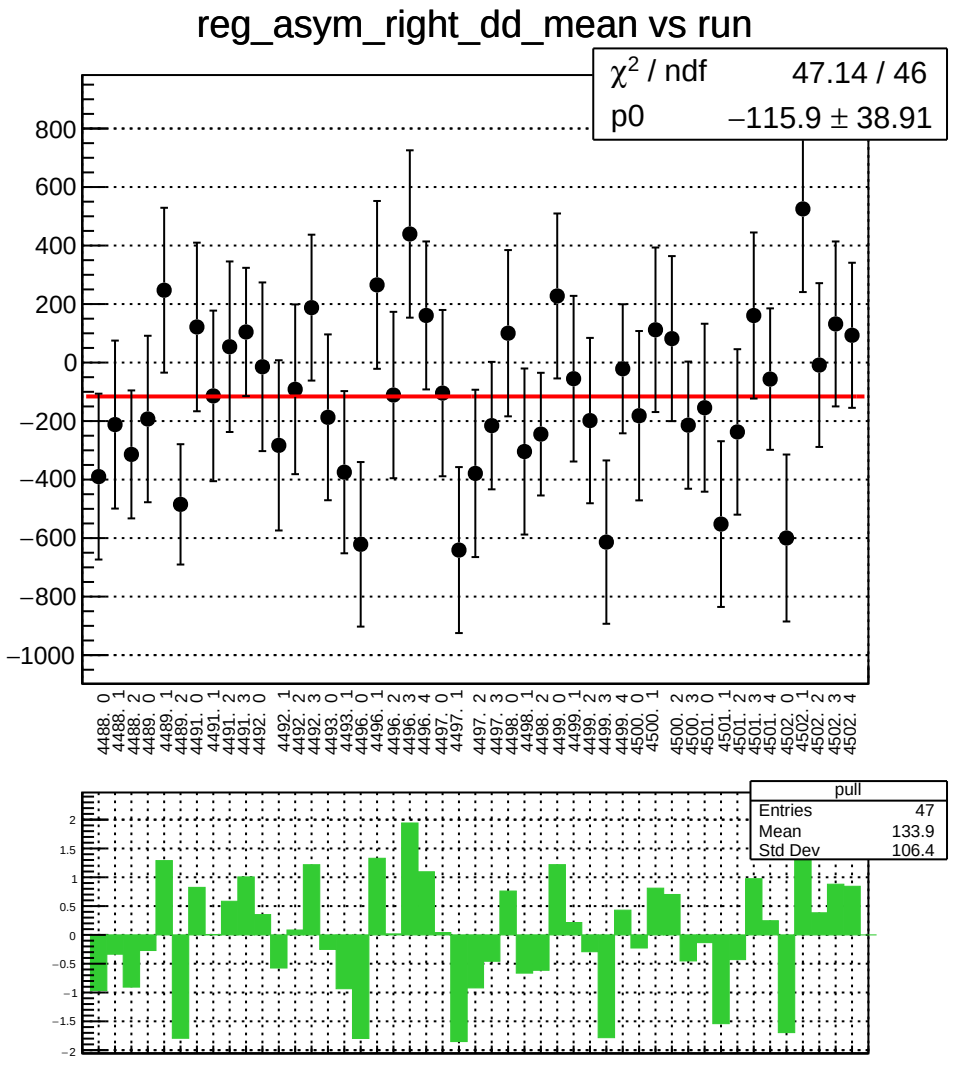

asym_right_avg_correction_mean vs run
χ² / ndf 45.51 / 46
p0 324.8 ± 628.8
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 191.8
Std Dev 161
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

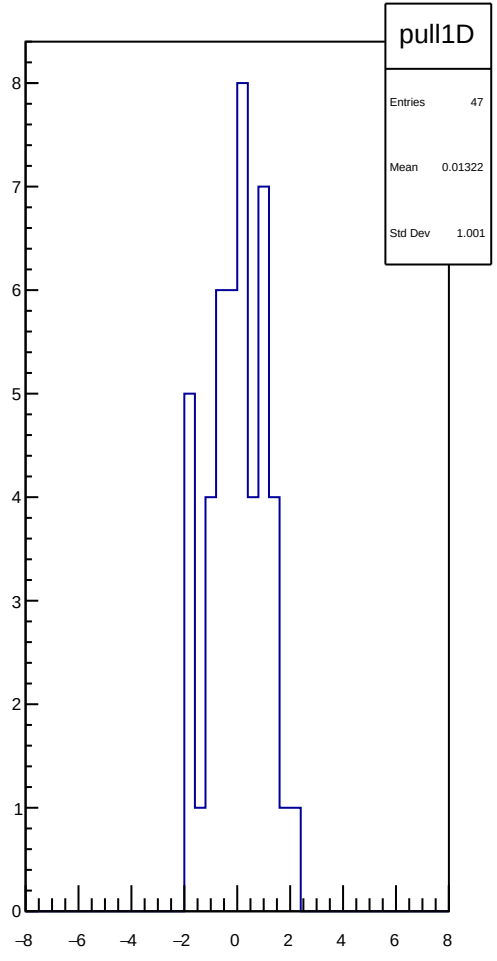

pull1D
Entries 47
Mean 0.008591
Std Dev 0.984
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

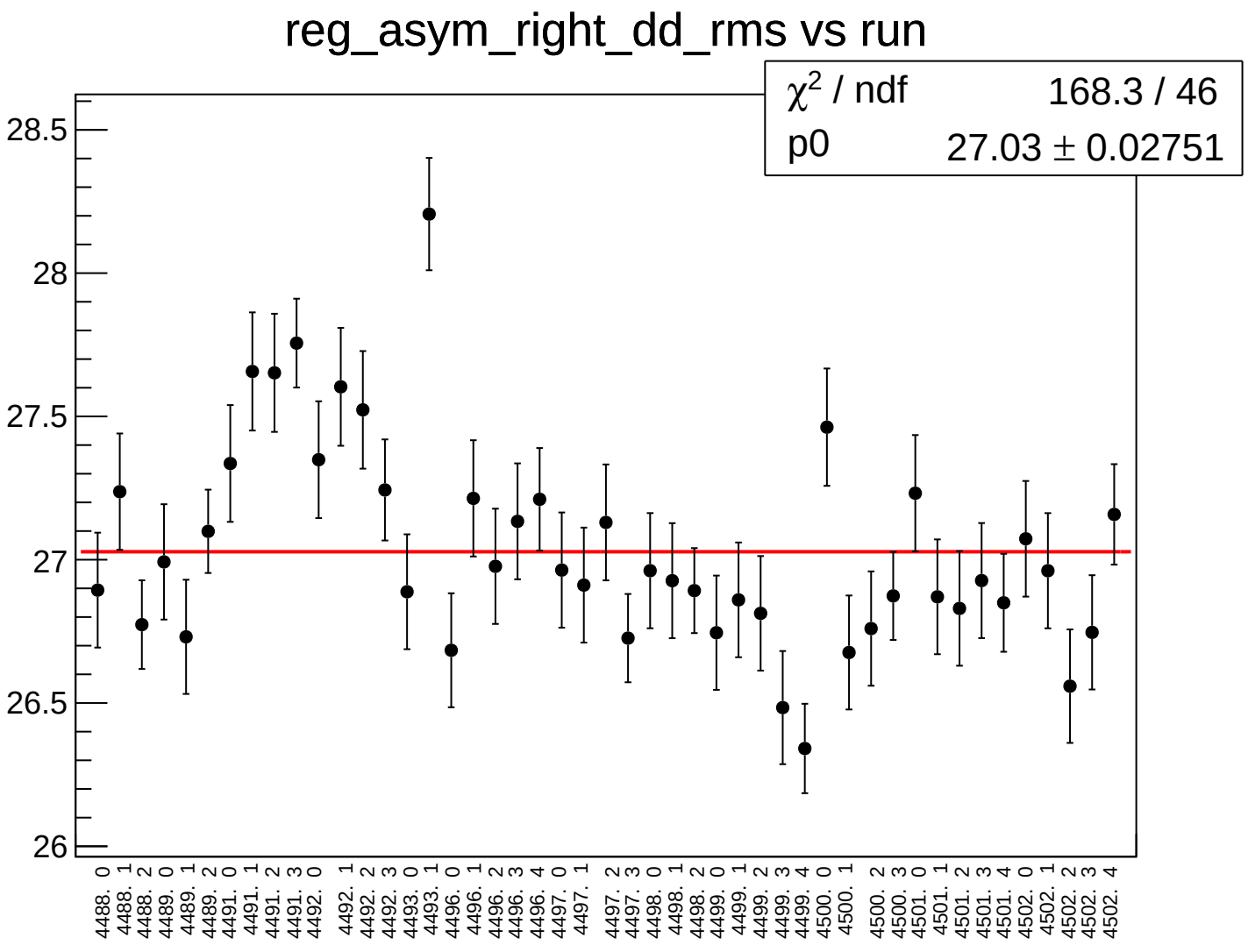

asym_right_avg_correction_rms vs run
χ² / ndf 1542 / 46
p0 436.5 ± 0.4446
540
520
500
480
460
440
420
400
380
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

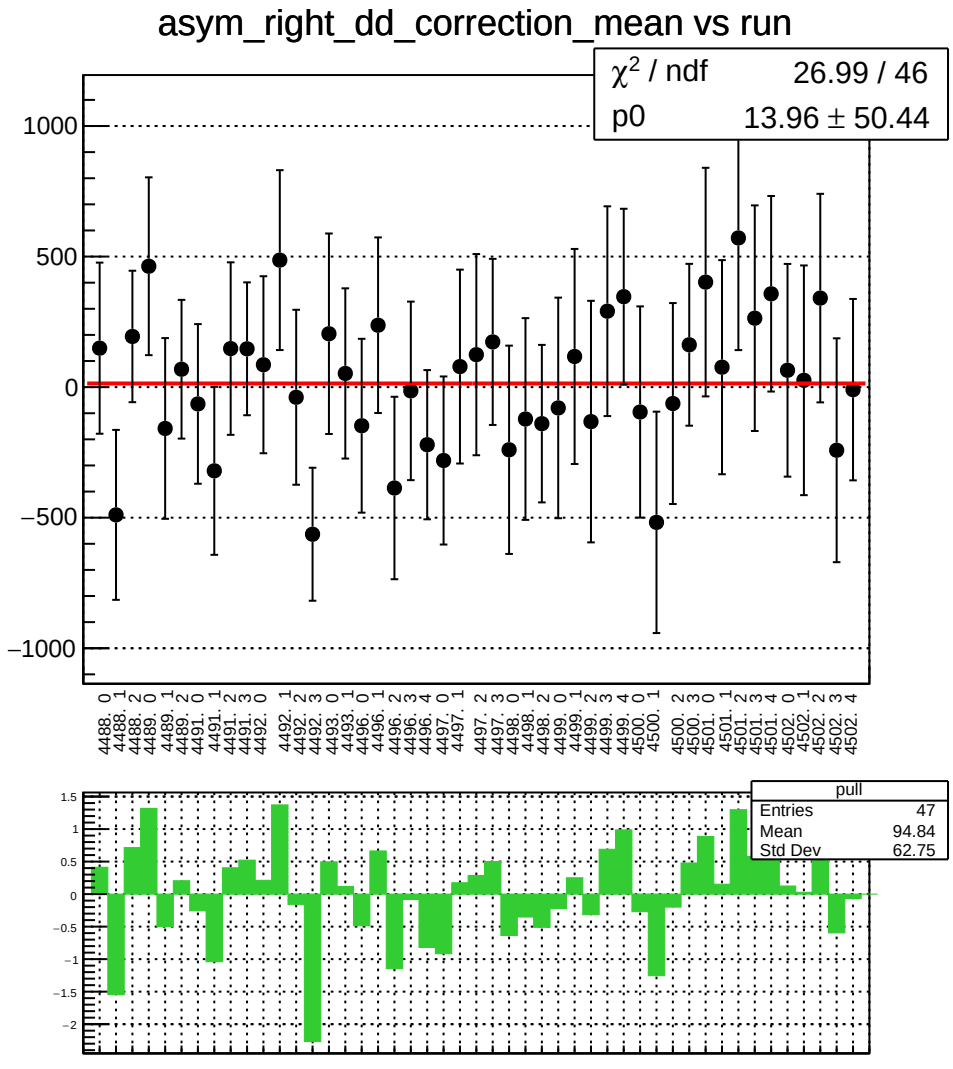

asym_right_avg_mean vs run
χ² / ndf 42.63 / 46
p0 −659.8 ± 656.7
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 38.88
Std Dev 17.55
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.01269
Std Dev 0.9523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

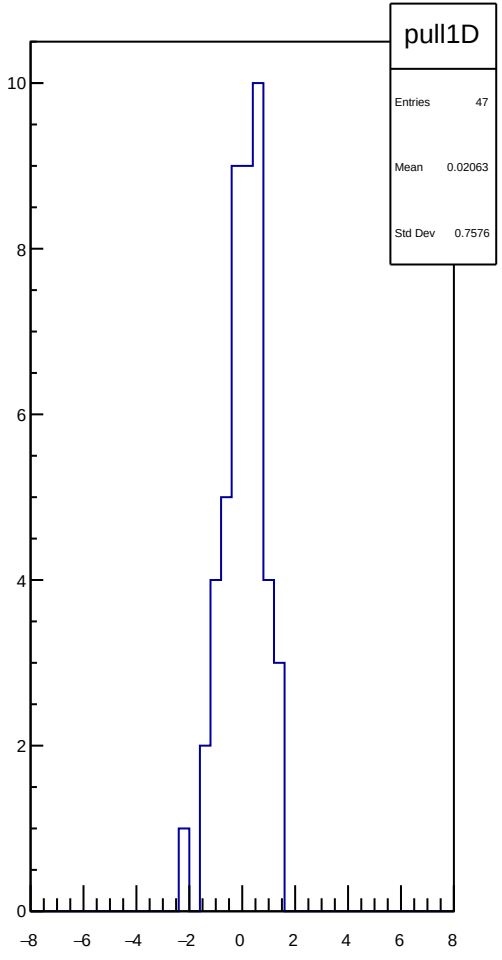

asym_right_avg_rms vs run
χ² / ndf 1316 / 46
p0 455.9 ± 0.4644
540
520
500
480
460
440
420
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

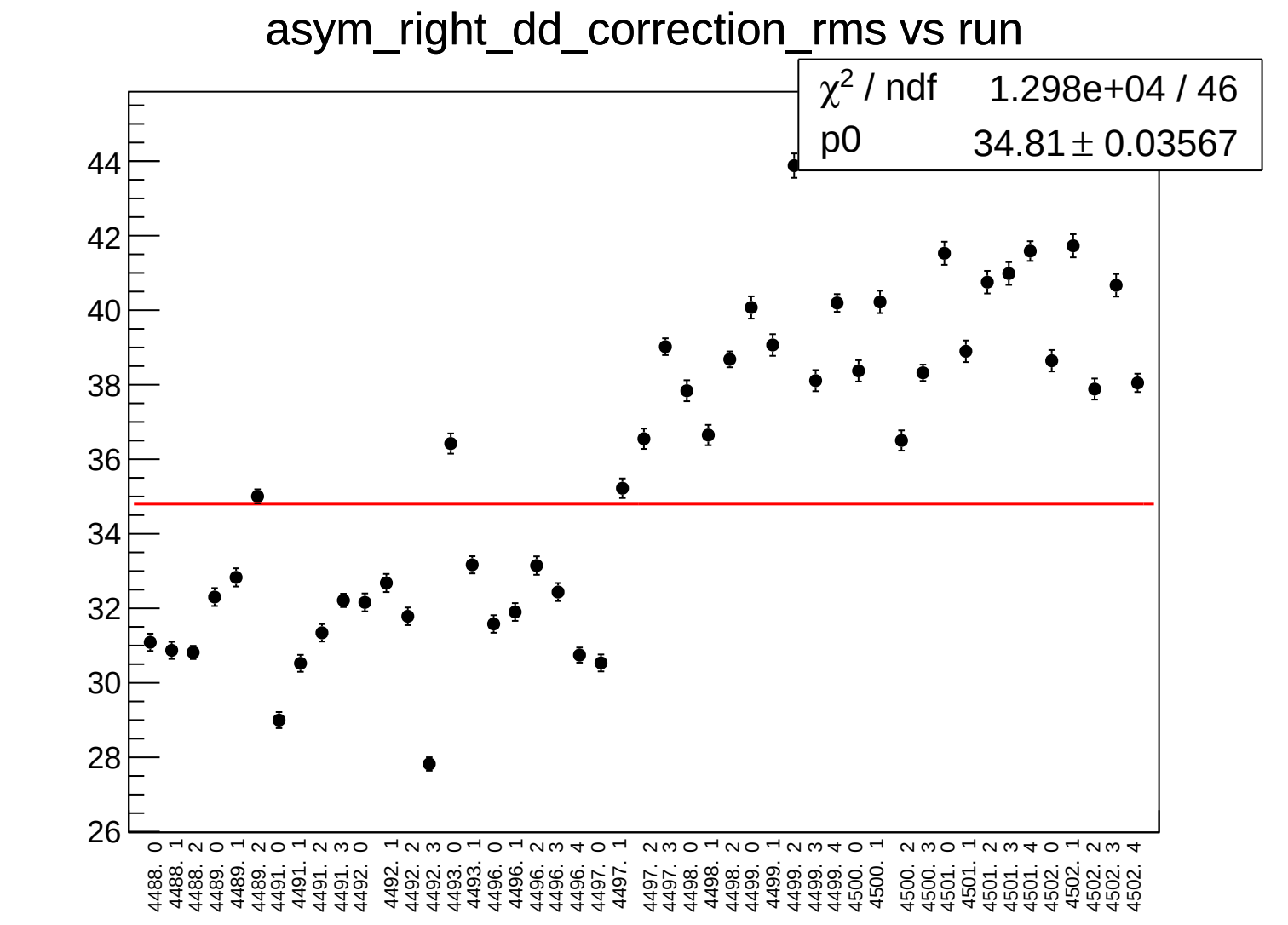

reg_asym_right_dd_mean vs run
χ² / ndf 47.14 / 46
p0 −115.9 ± 38.91
pull
Entries 47
Mean 133.9
Std Dev 106.4

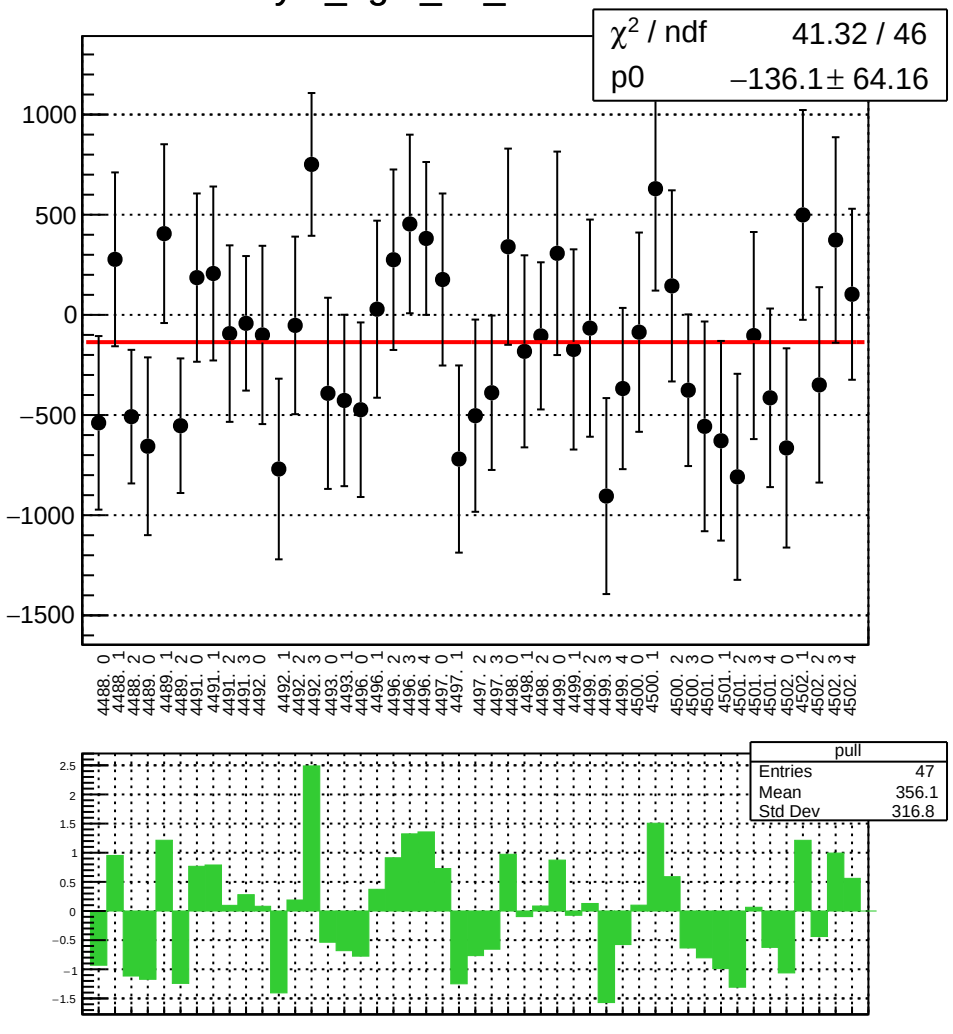

pull1D
Entries 47
Mean 0.01322
Std Dev 1.001

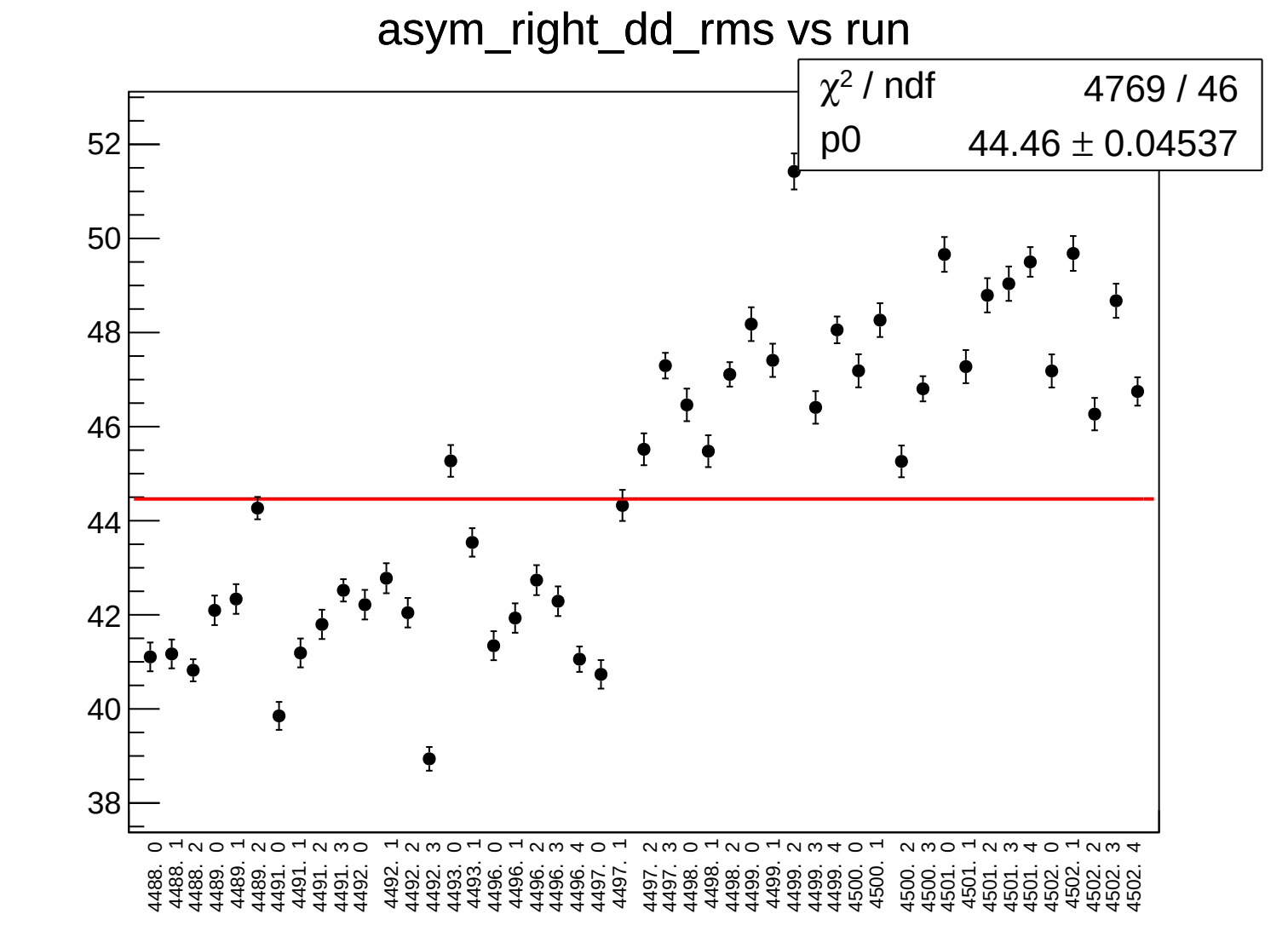

reg_asym_right_dd_rms vs run
χ² / ndf 168.3 / 46
p0 27.03 ± 0.02751
28.5
28
27.5
27
26.5
26
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

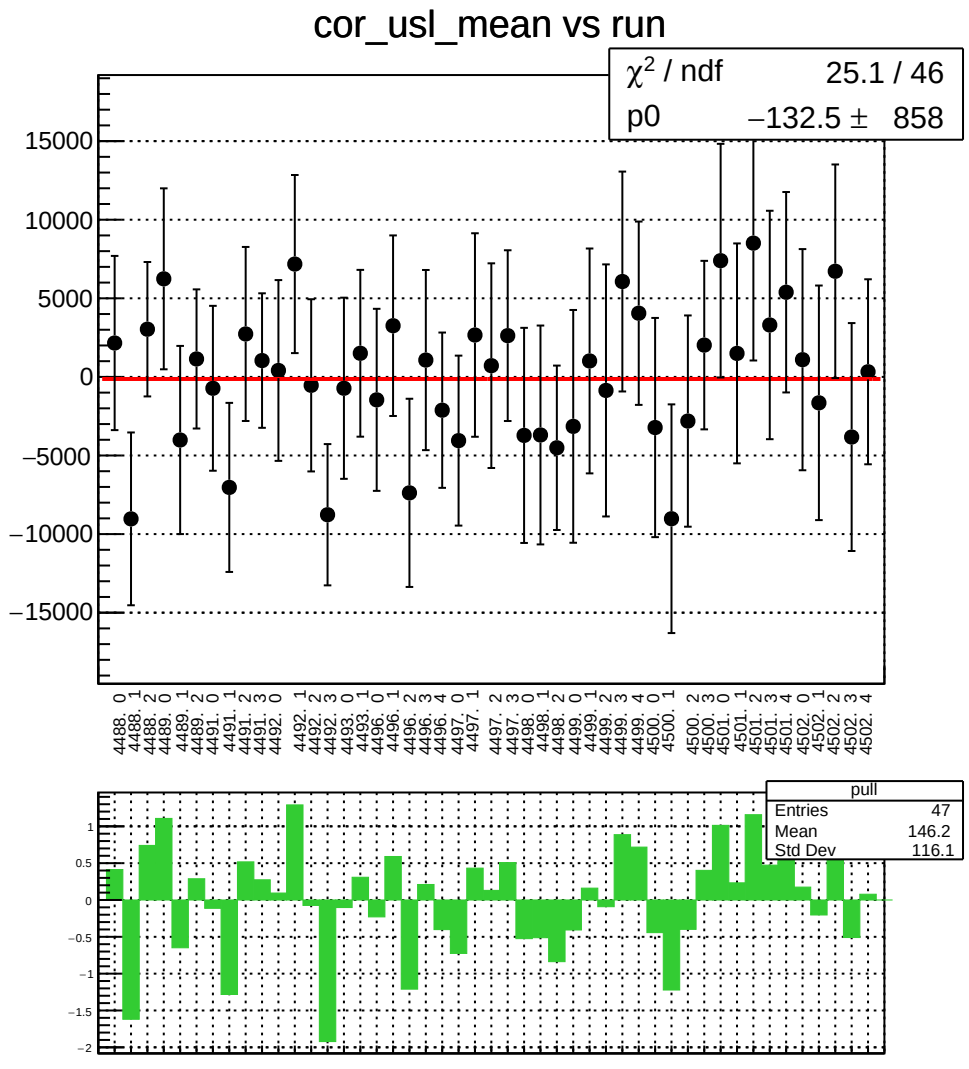

asym_right_dd_correction_mean vs run
χ² / ndf 26.99 / 46
p0 13.96 ± 50.44
1000
500
0
−500
−1000
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 94.84
Std Dev 62.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2

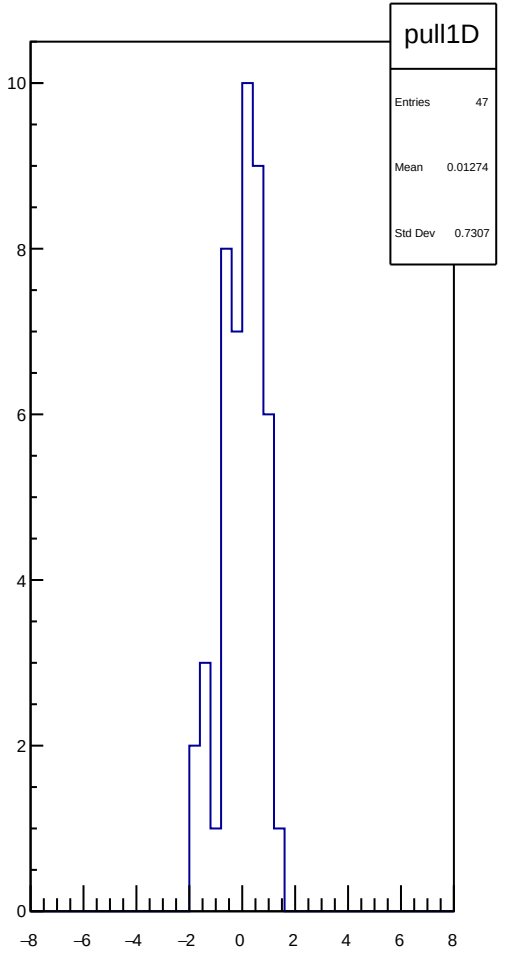

pull1D
Entries 47
Mean 0.02063
Std Dev 0.7576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

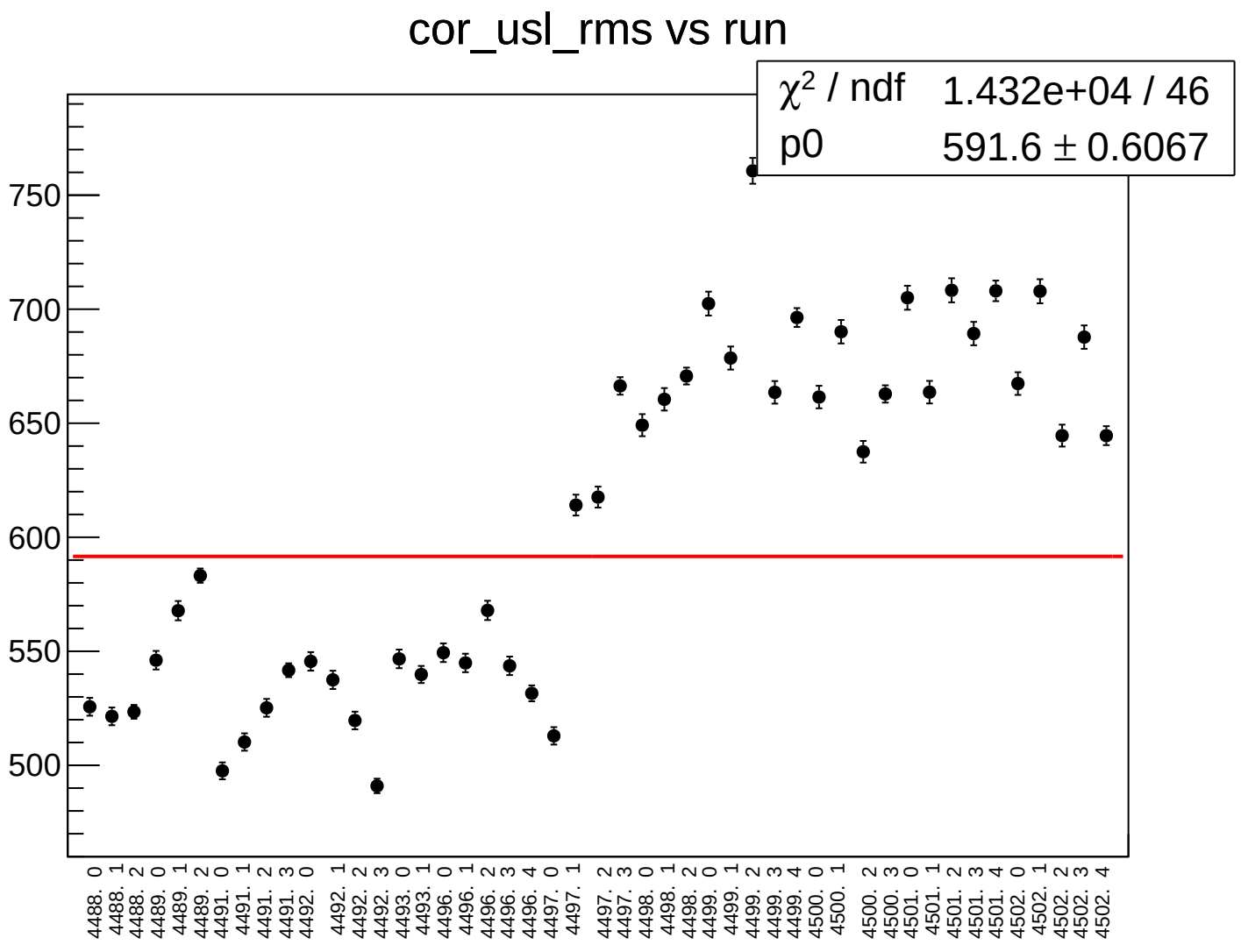

asym_right_dd_correction_rms vs run
χ² / ndf 1.298e+04 / 46
p0 34.81 ± 0.03567
44
42
40
38
36
34
32
30
28
26
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

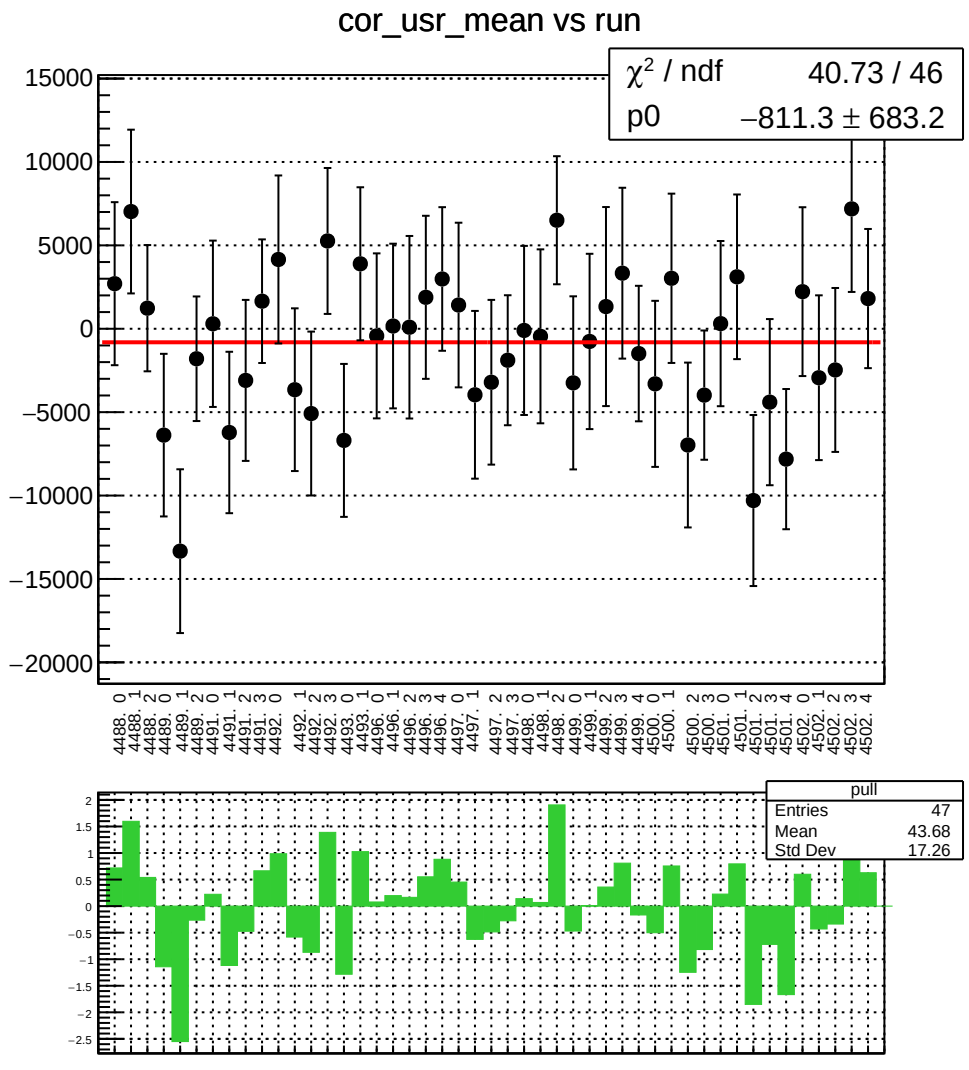

asym_right_dd_mean vs run
χ^2 / ndf 41.32 / 46
p0 −136.1± 64.16
1000
500
0
−500
−1000
−1500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 356.1
Std Dev 316.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.001216
Std Dev 0.9376
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

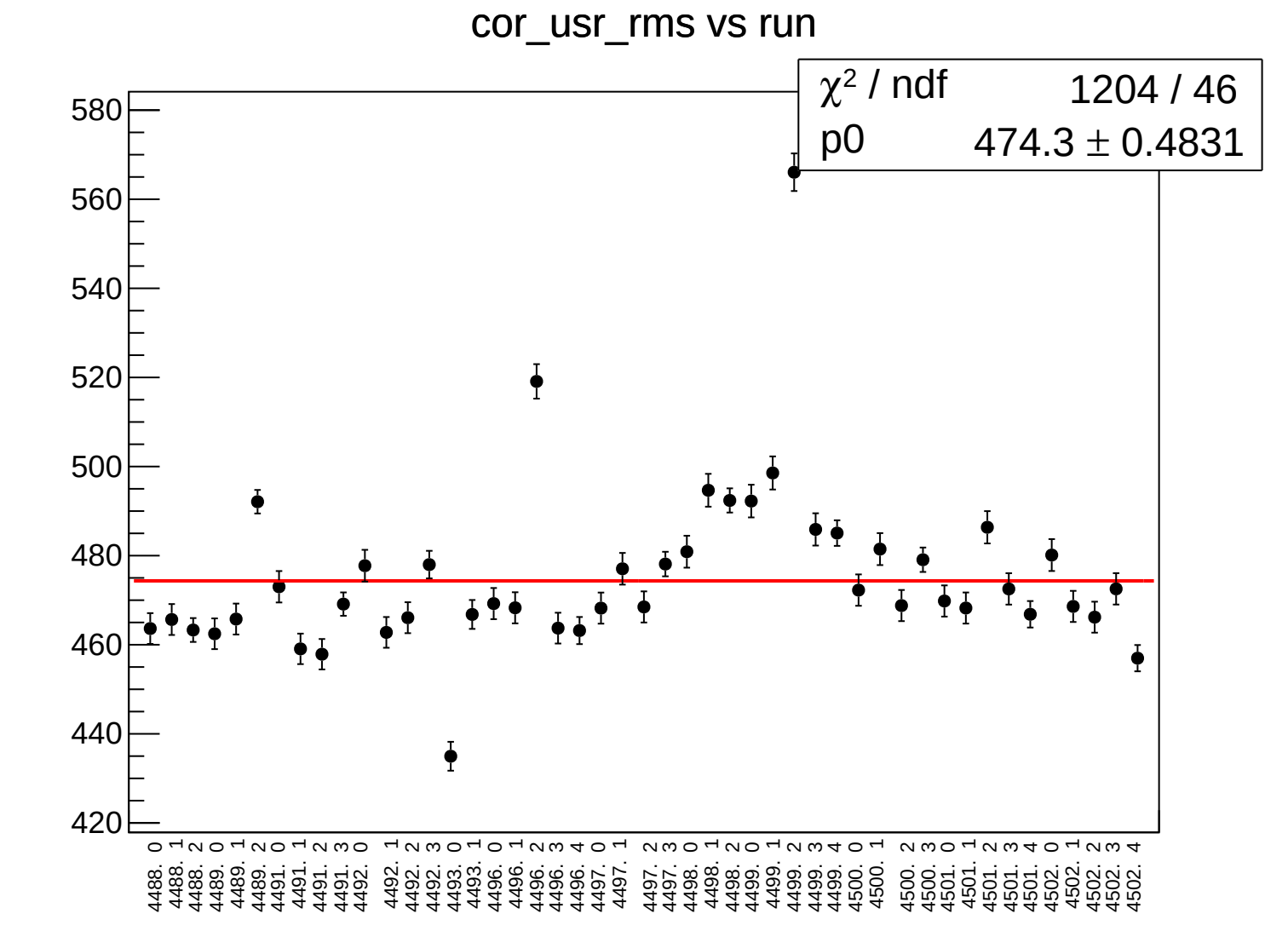

asym_right_dd_rms vs run
χ² / ndf 4769 / 46
p0 44.46 ± 0.04537
52
50
48
46
44
42
40
38
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

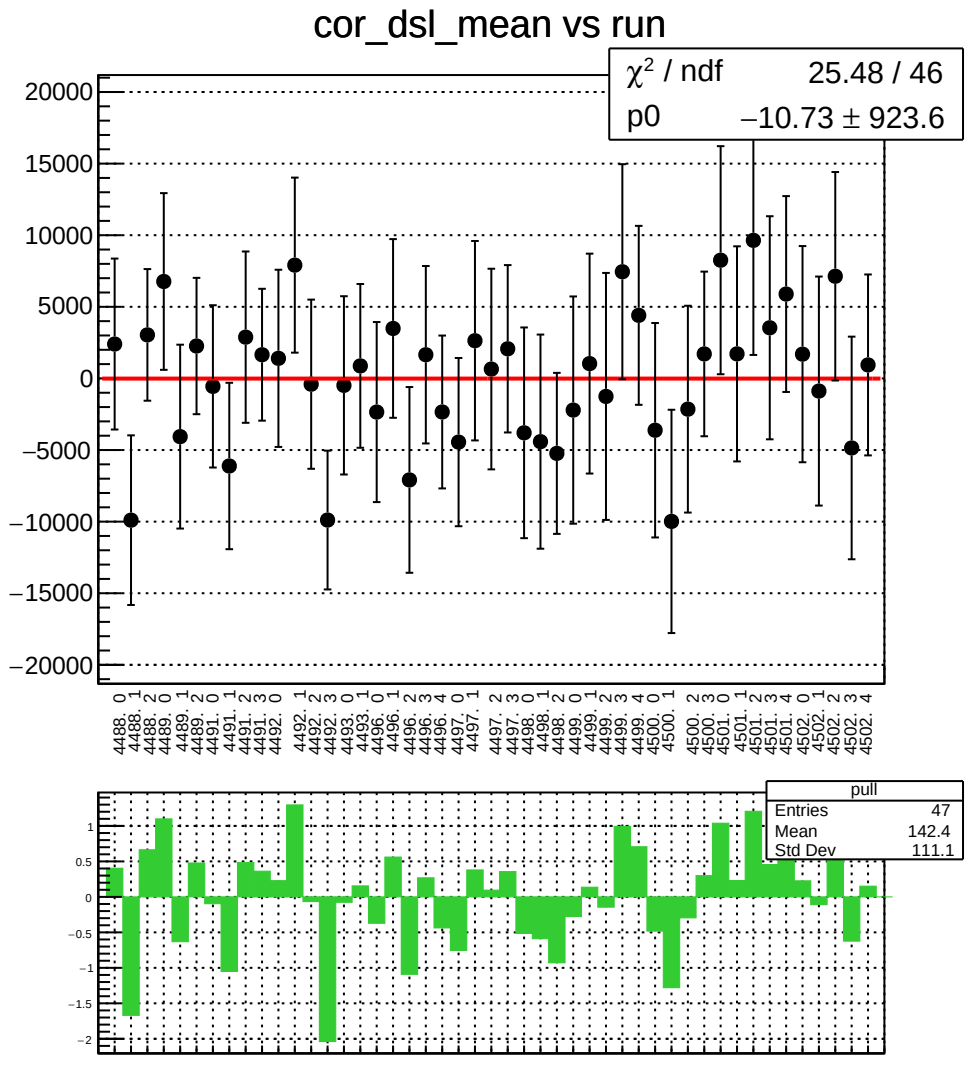

cor_usl_mean vs run
χ² / ndf 25.1 / 46
p0 −132.5 ± 858
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 146.2
Std Dev 116.1
1
0.5
0
−0.5
−1
−1.5
−2

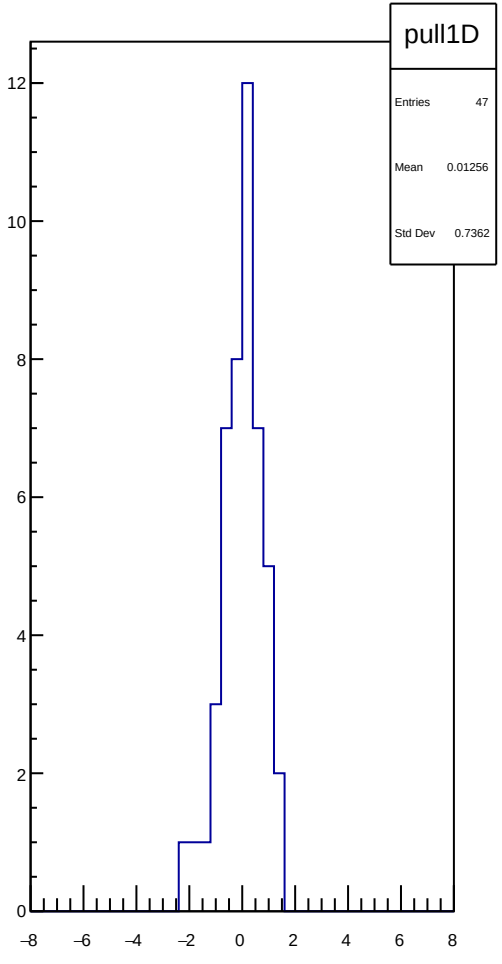

pull1D
Entries 47
Mean 0.01274
Std Dev 0.7307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

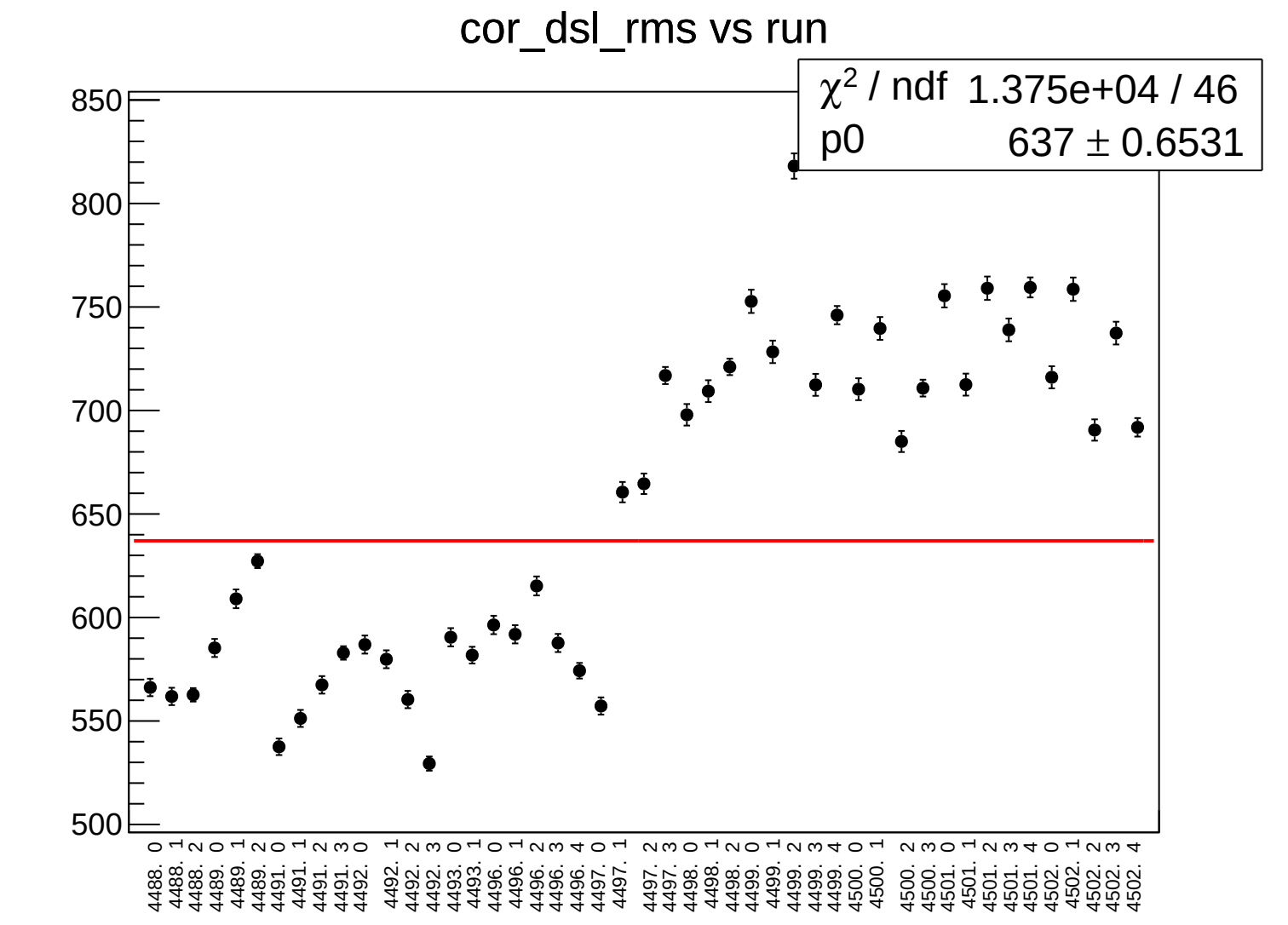

cor_usl_rms vs run
χ² / ndf 1.432e+04 / 46
p0 591.6 ± 0.6067
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

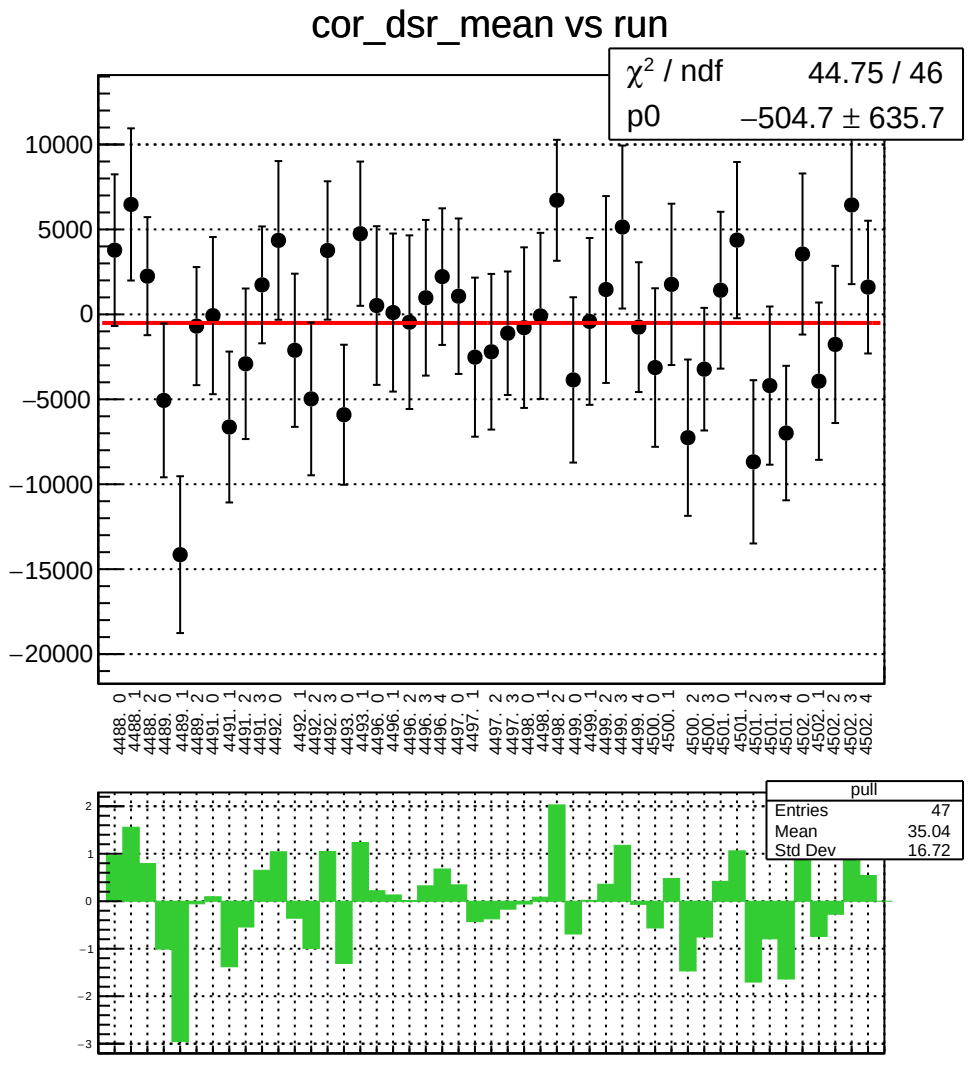

cor_usr_mean vs run
χ² / ndf 40.73 / 46
p0 −811.3 ± 683.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 43.68
Std Dev 17.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean −0.01061
Std Dev 0.9308
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

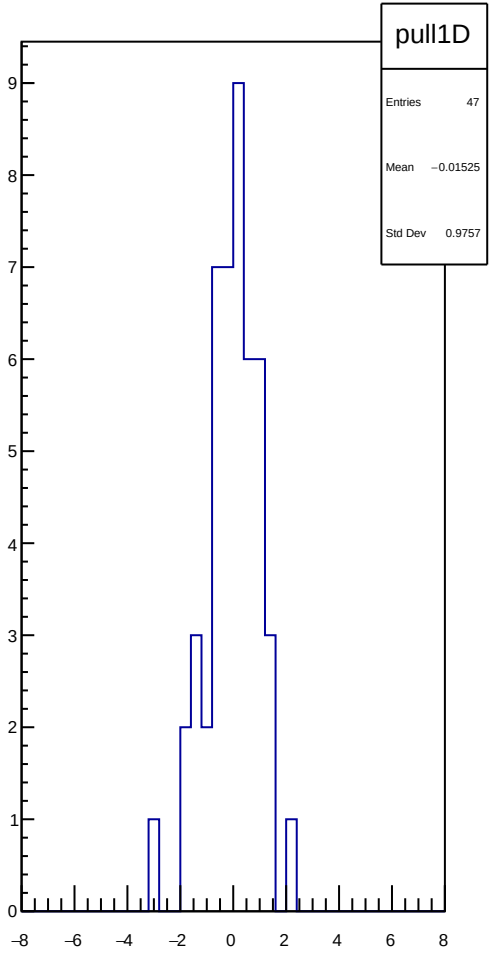

cor_usr_rms vs run
χ² / ndf 1204 / 46
p0 474.3 ± 0.4831
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

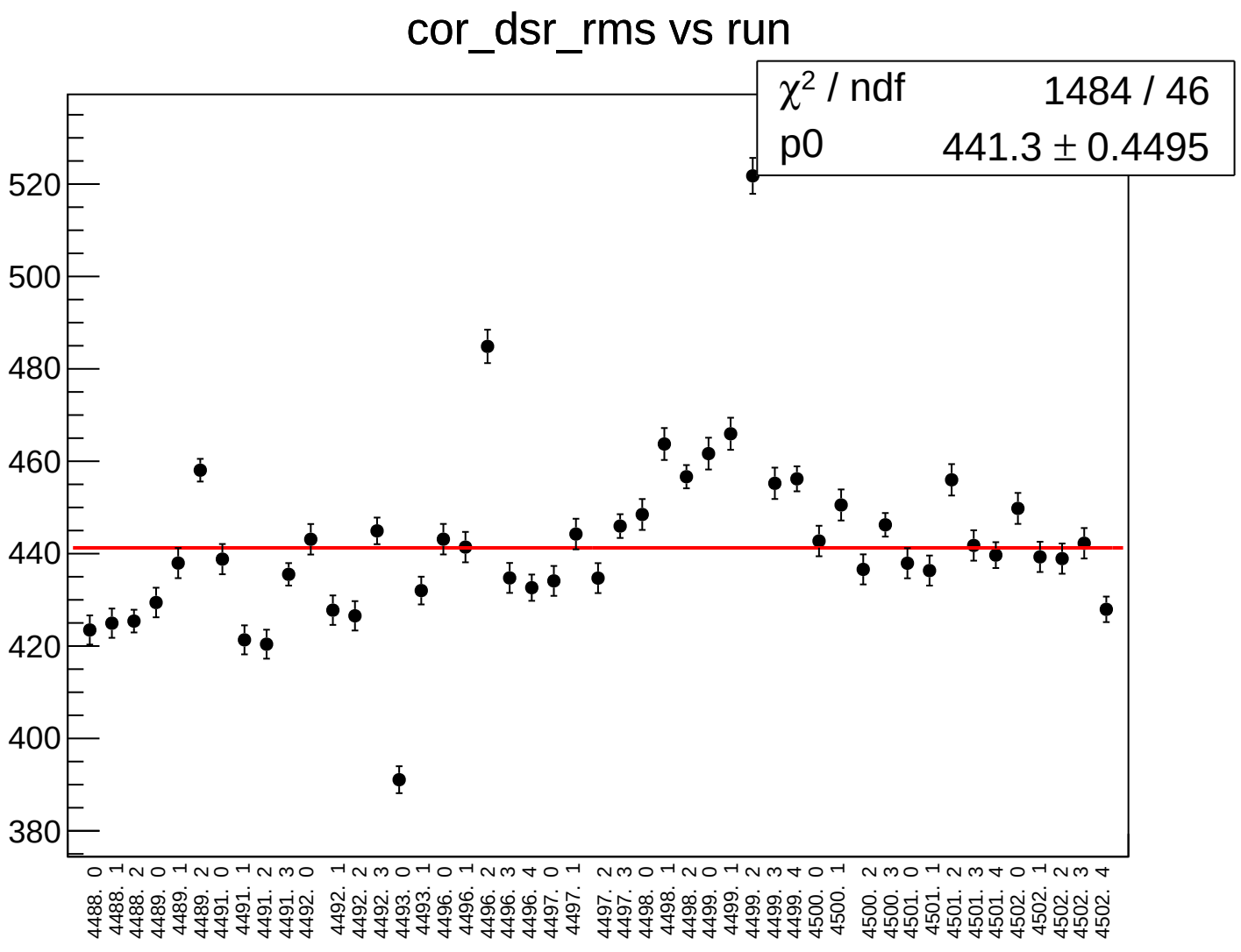

cor_dsl_mean vs run
χ² / ndf 25.48 / 46
p0 −10.73 ± 923.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 142.4
Std Dev 111.1
1
0.5
0
−0.5
−1
−1.5
−2

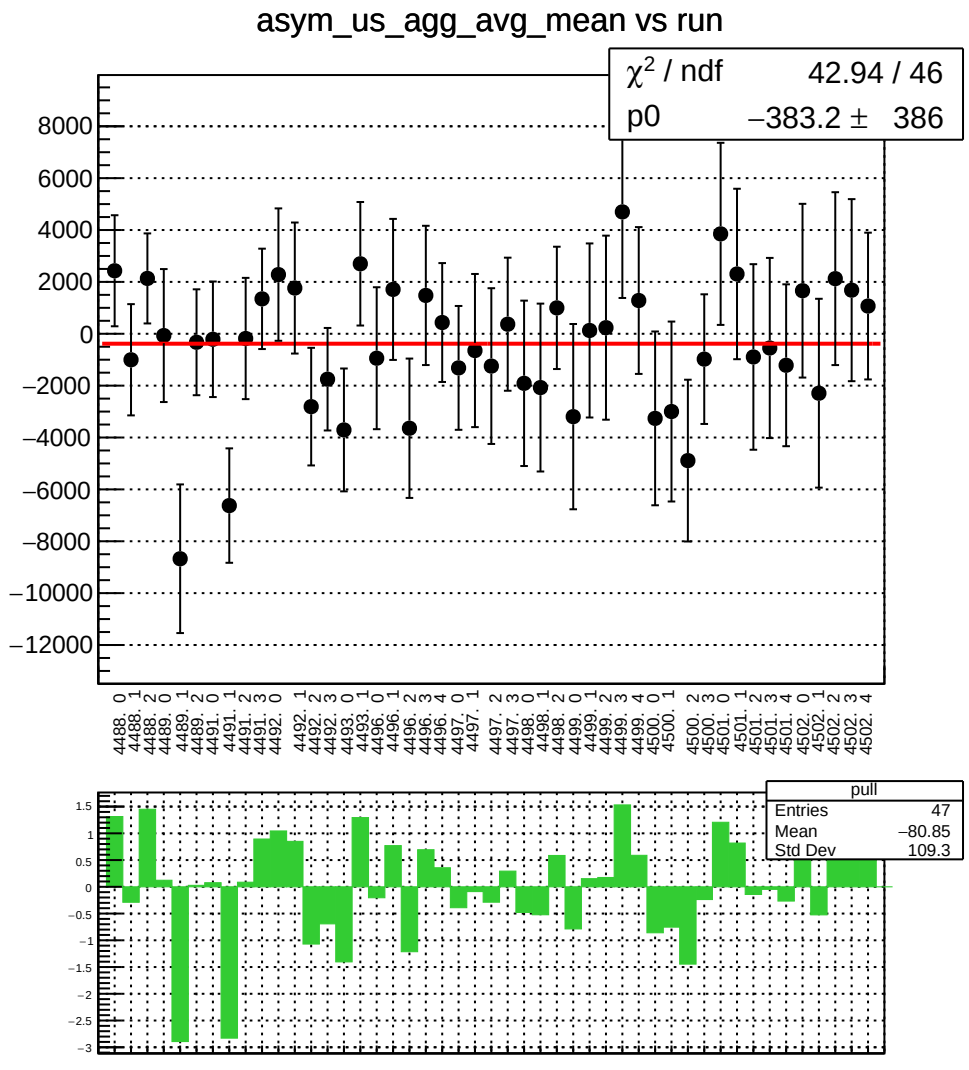

pull1D
Entries 47
Mean 0.01256
Std Dev 0.7362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

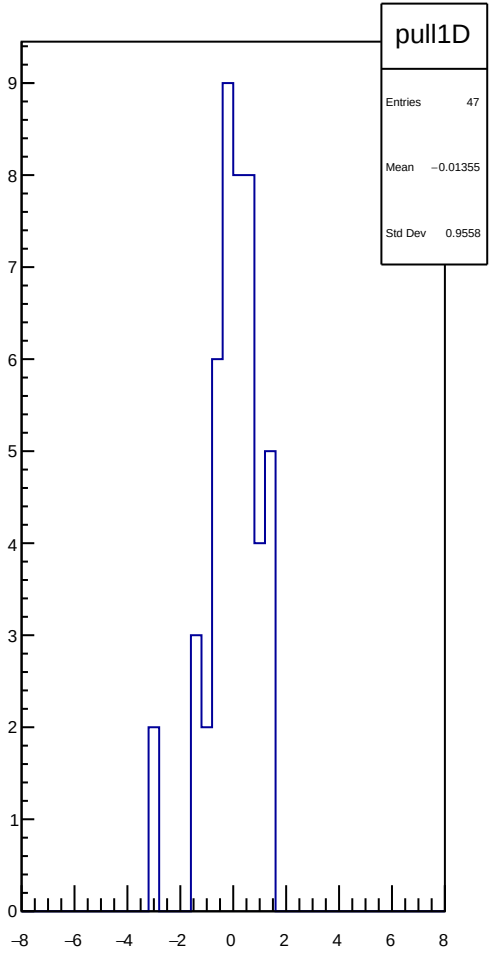

cor_dsl_rms vs run
χ² / ndf 1.375e+04 / 46
p0 637 ± 0.6531
850
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

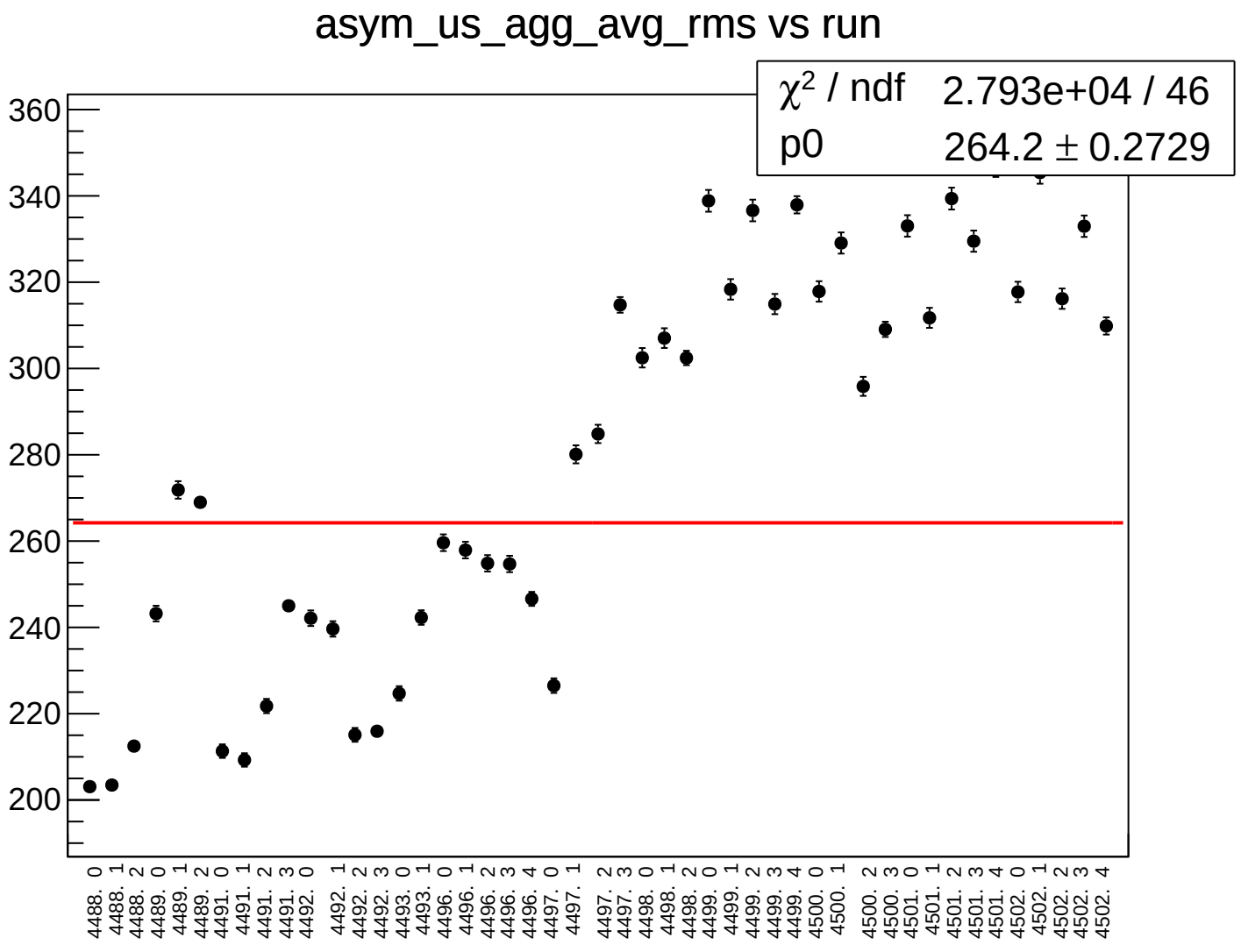

cor_dsr_mean vs run
χ² / ndf 44.75 / 46
p0 −504.7 ± 635.7
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 35.04
Std Dev 16.72
2
1
0
−1
−2
−3

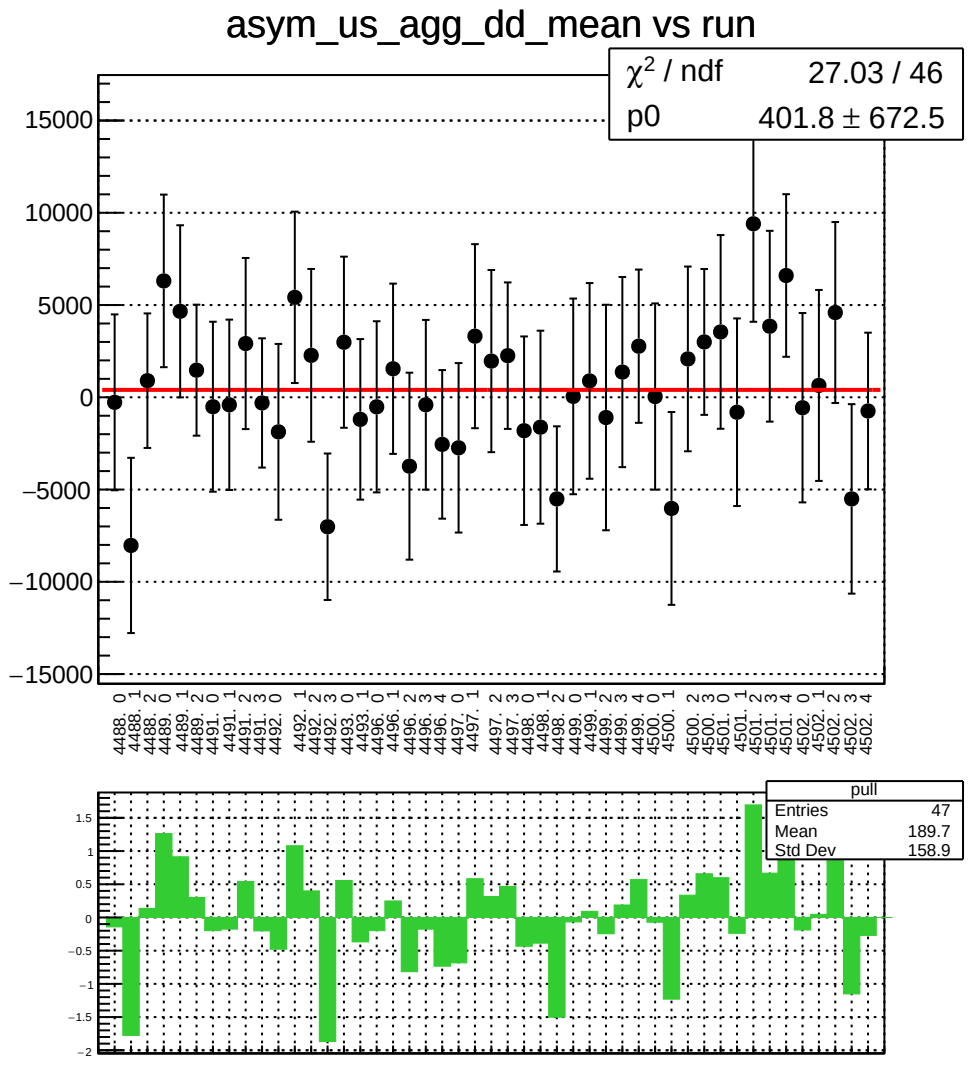

pull1D
Entries 47
Mean −0.01525
Std Dev 0.9757
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

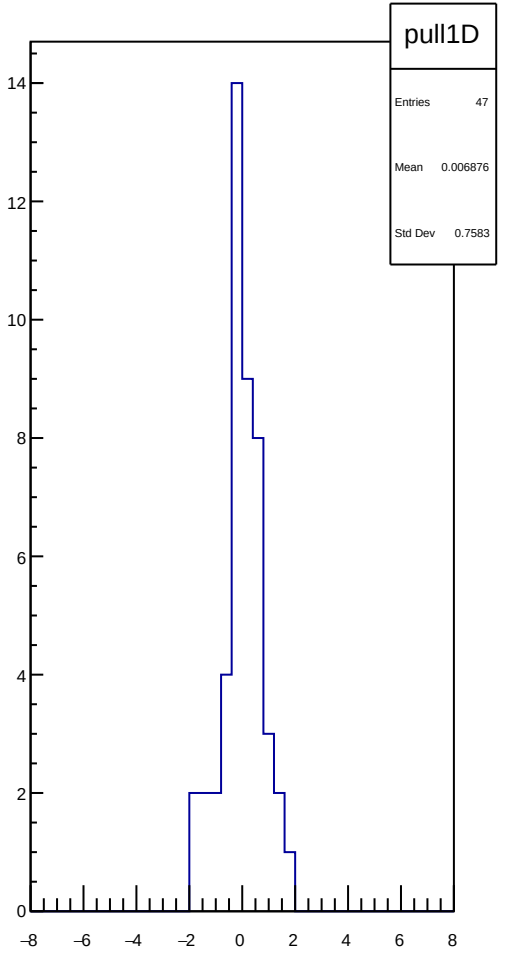

cor_dsr_rms vs run
χ² / ndf 1484 / 46
p0 441.3 ± 0.4495
520
500
480
460
440
420
400
380
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

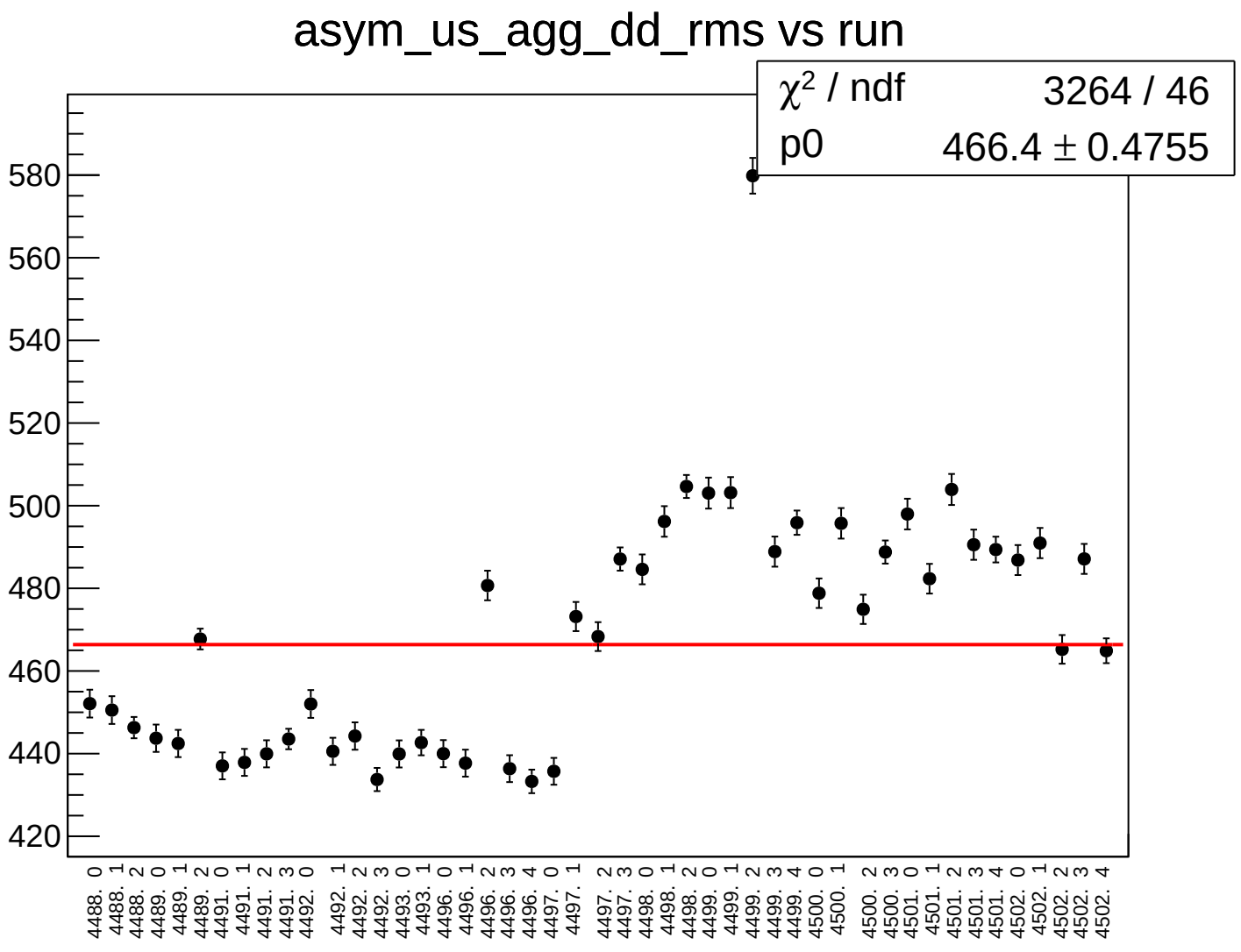

asym_us_agg_avg_mean vs run
χ² / ndf 42.94 / 46
p0 −383.2 ± 386
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −80.85
Std Dev 109.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

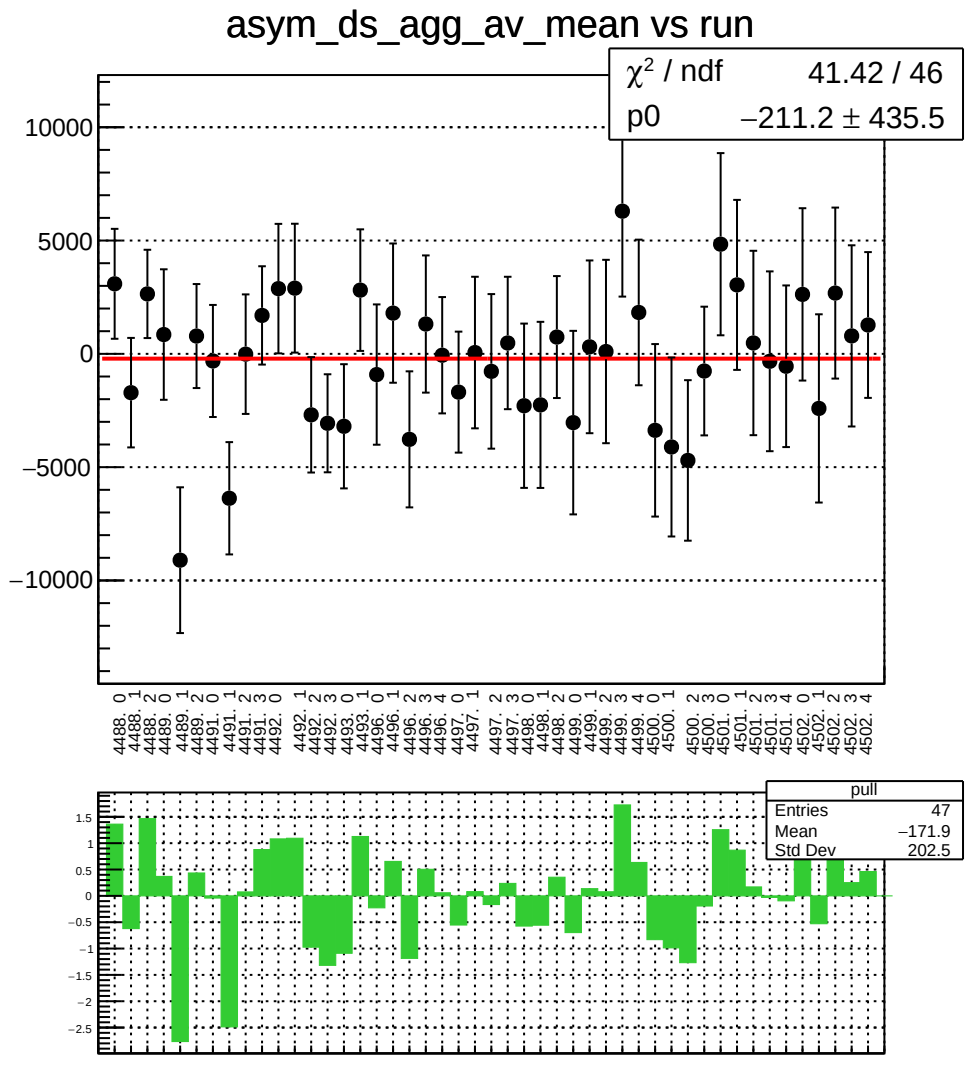

pull1D
Entries 47
Mean −0.01355
Std Dev 0.9558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

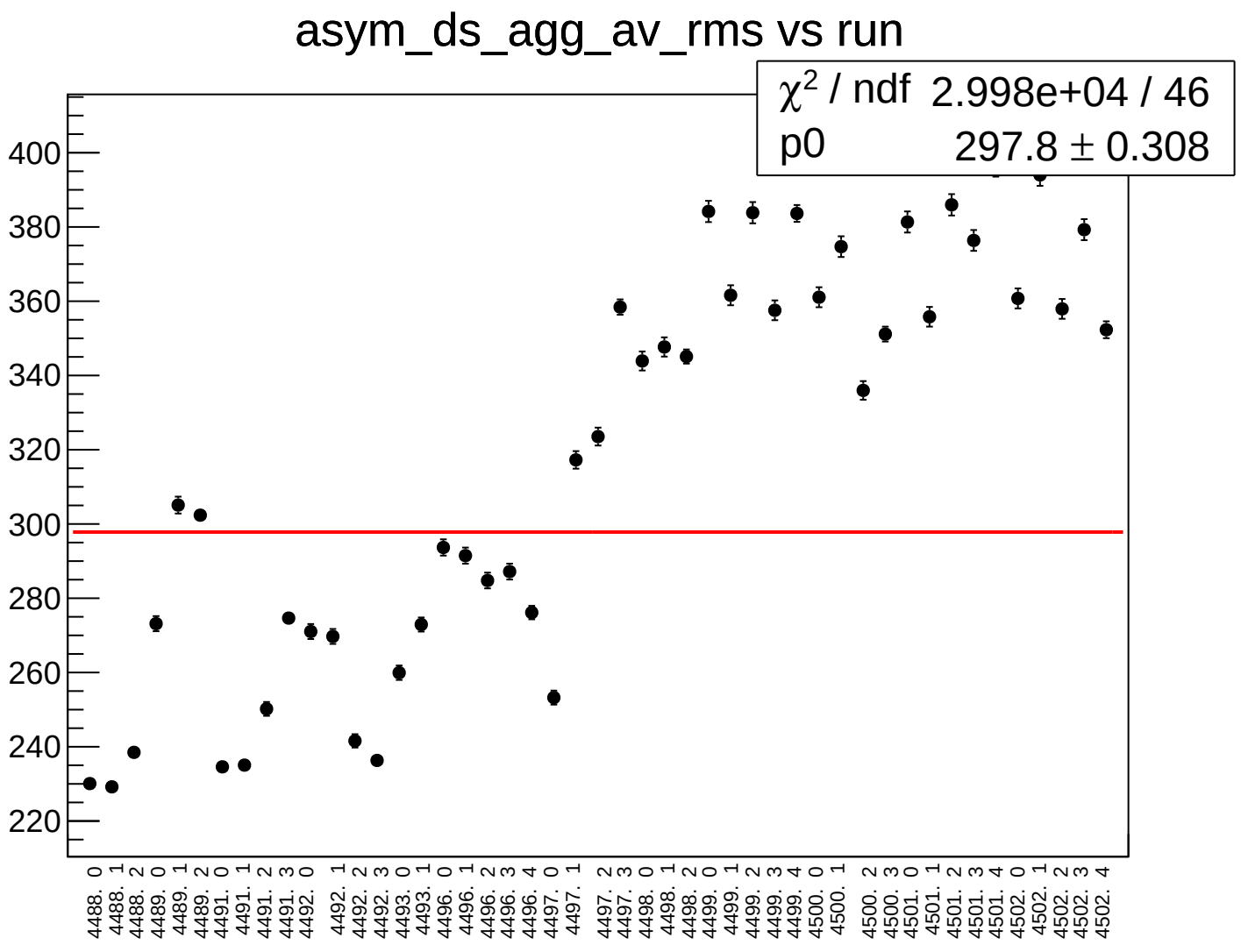

asym_us_agg_avg_rms vs run
χ² / ndf 2.793e+04 / 46
p0 264.2 ± 0.2729
360
340
320
300
280
260
240
220
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_us_agg_dd_mean vs run
χ² / ndf 27.03 / 46
p0 401.8 ± 672.5
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 189.7
Std Dev 158.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 47
Mean 0.006876
Std Dev 0.7583
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 3264 / 46
p0 466.4 ± 0.4755
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_ds_agg_av_mean vs run
χ² / ndf 41.42 / 46
p0 −211.2 ± 435.5
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −171.9
Std Dev 202.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean −0.006773
Std Dev 0.9387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_agg_av_rms vs run
χ² / ndf 2.998e+04 / 46
p0 297.8 ± 0.308
400
380
360
340
320
300
280
260
240
220
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
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4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
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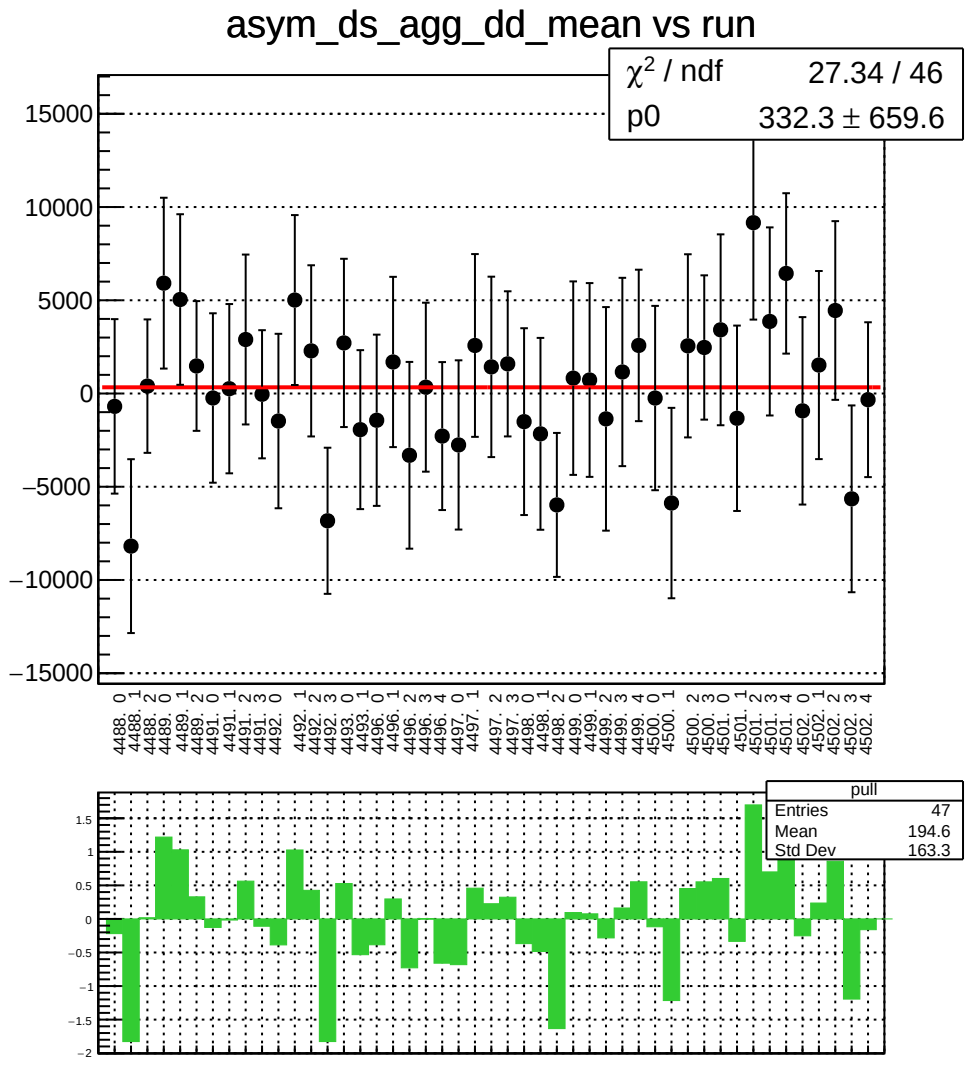
4502. 3
4502. 4


asym_ds_agg_dd_mean vs run
χ² / ndf 27.34 / 46
p0 332.3 ± 659.6
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
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4497. 1
4497. 2
4497. 3
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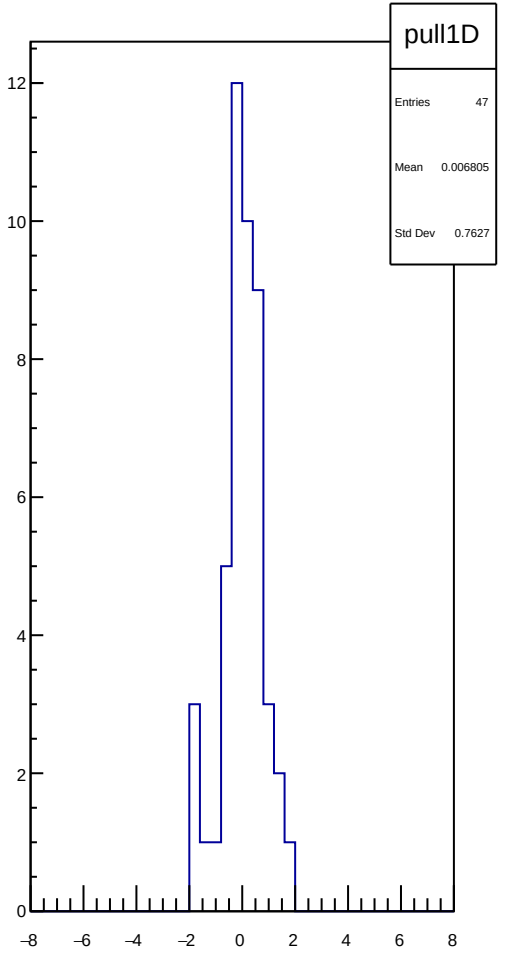
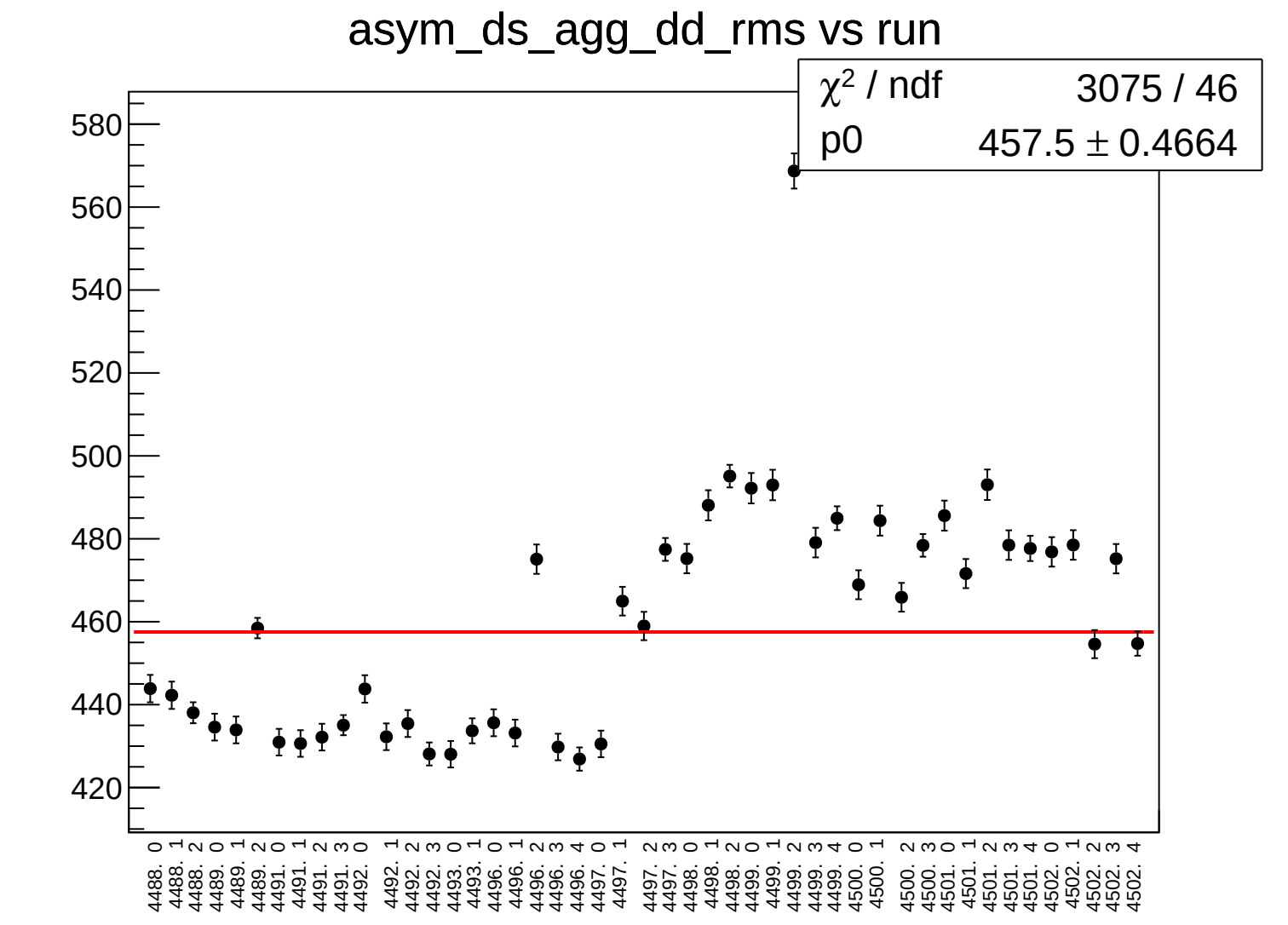
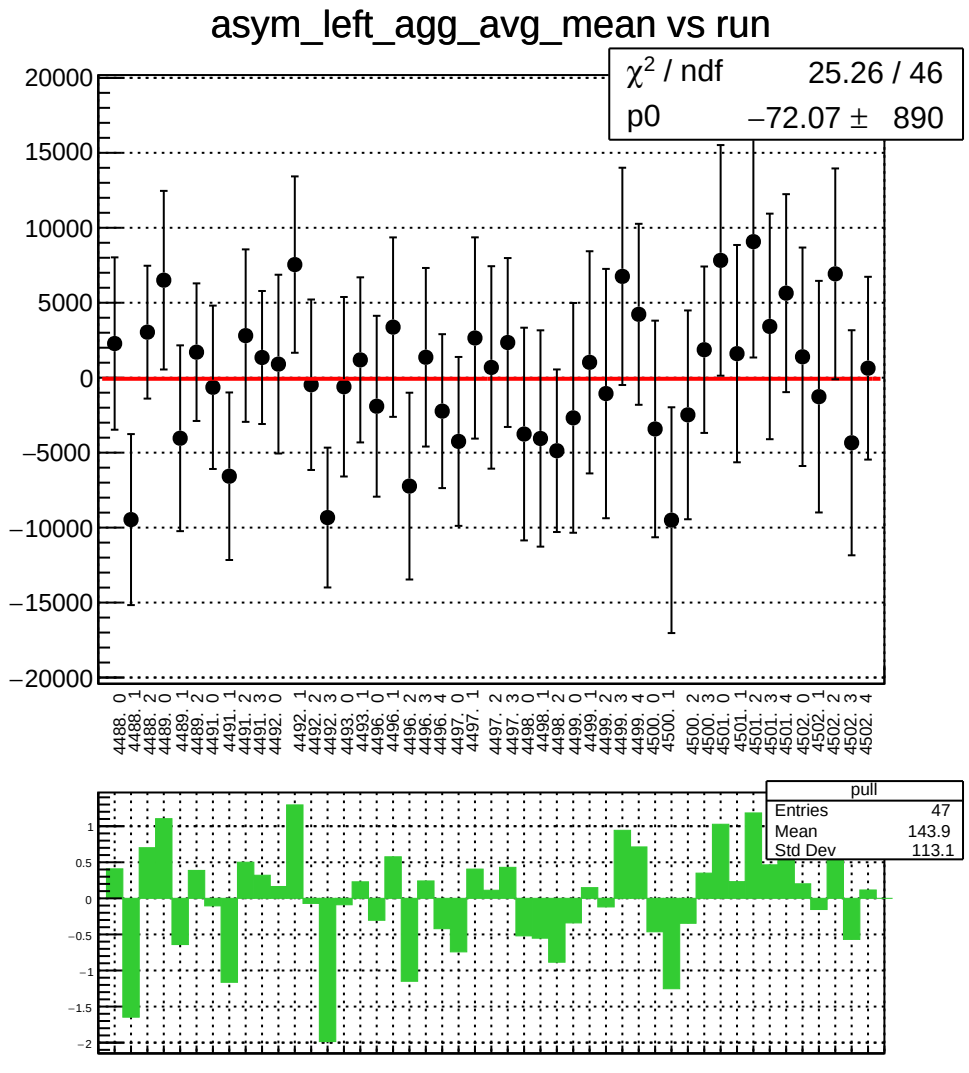
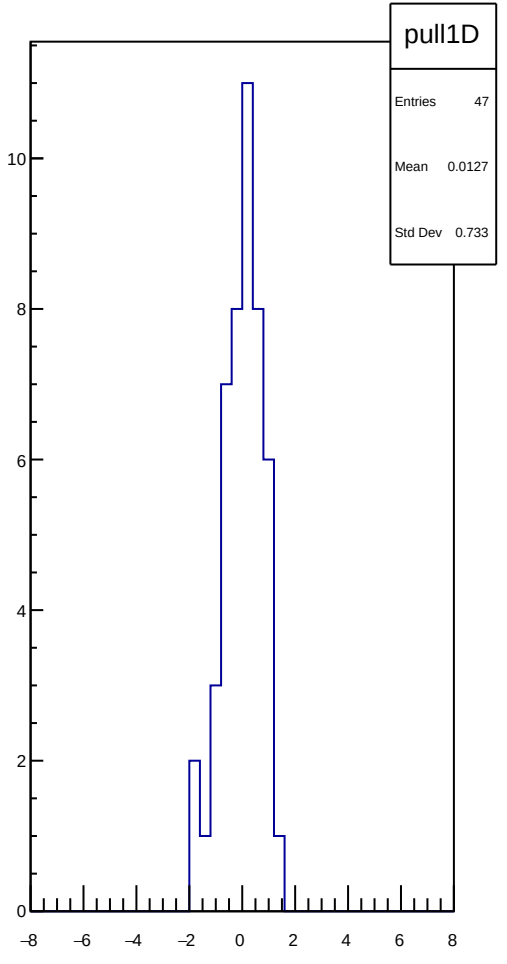
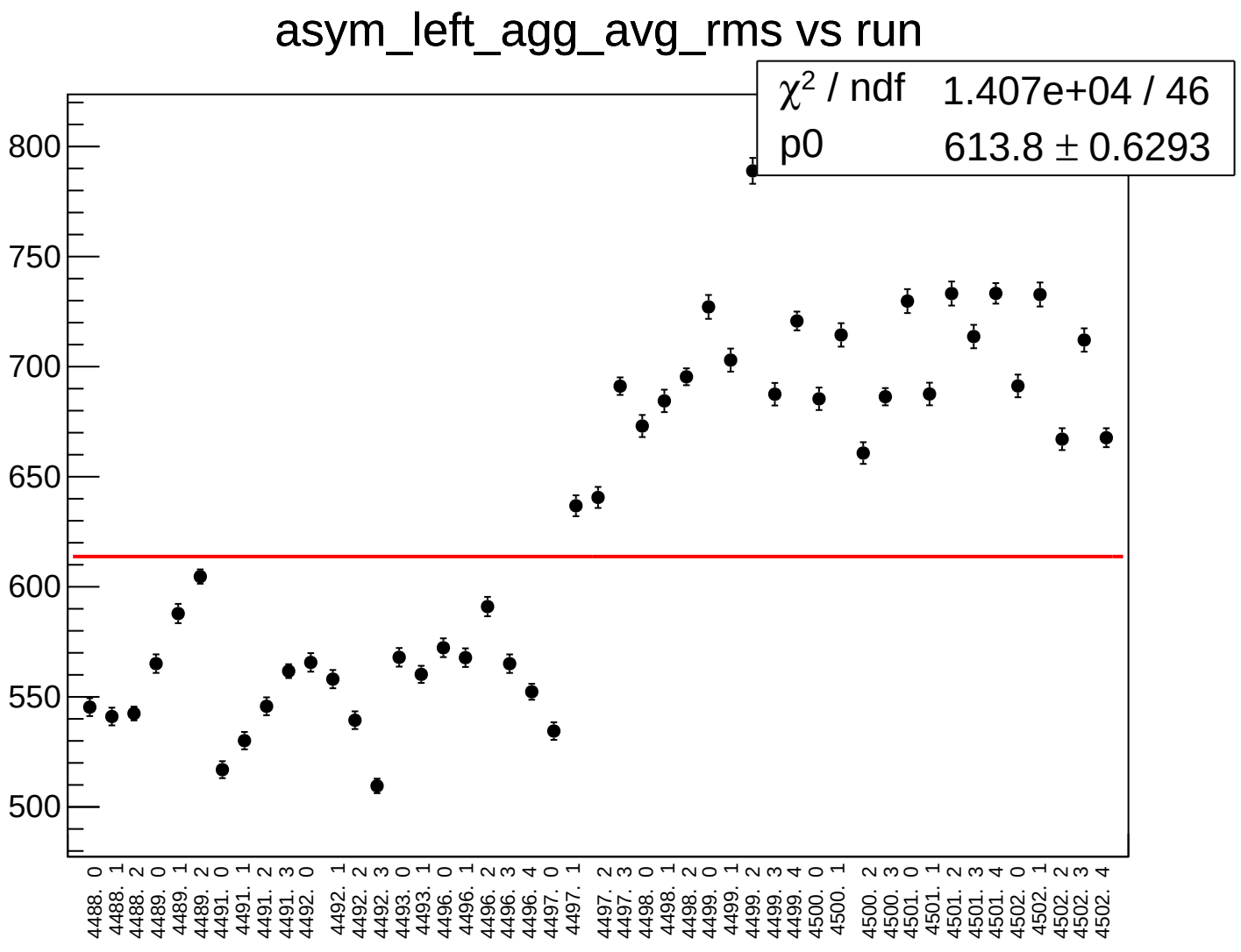
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 194.6
Std Dev 163.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

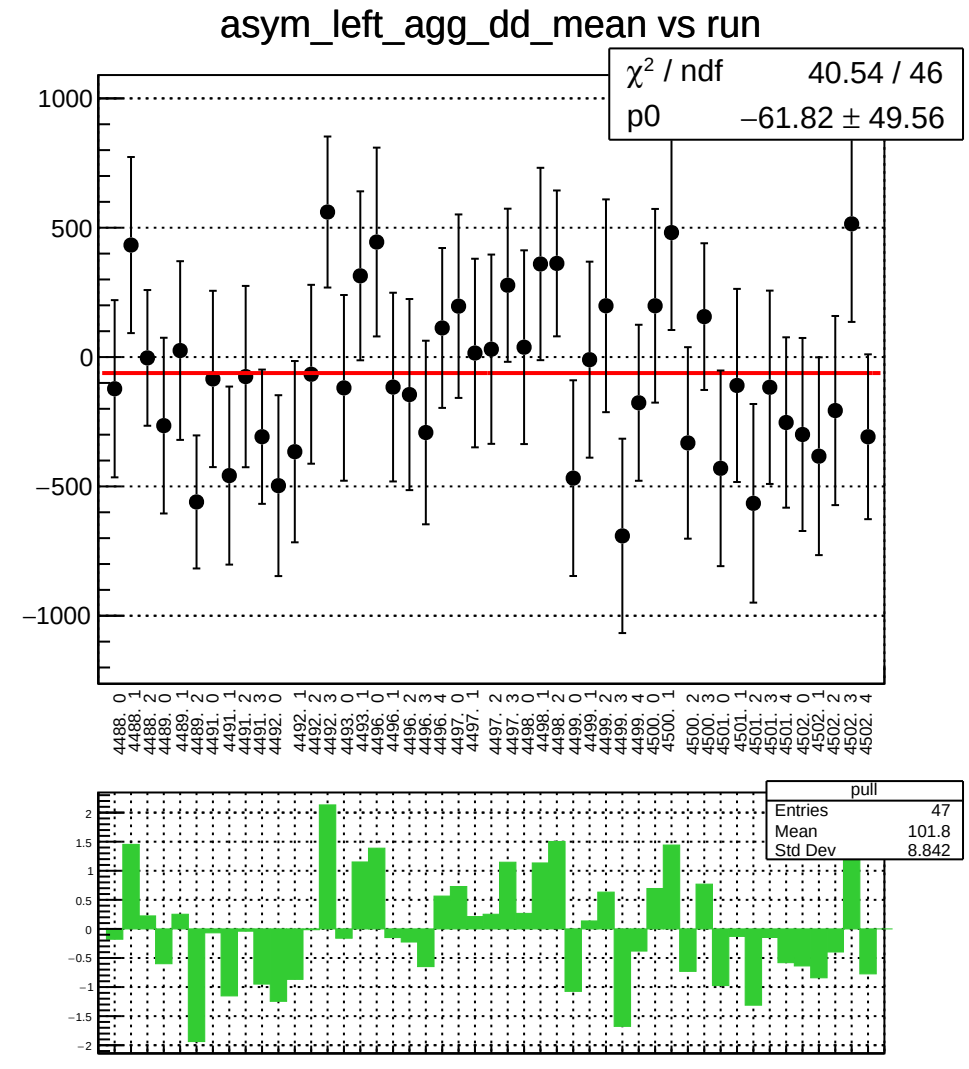

pull1D
Entries 47
Mean 0.006805
Std Dev 0.7627
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

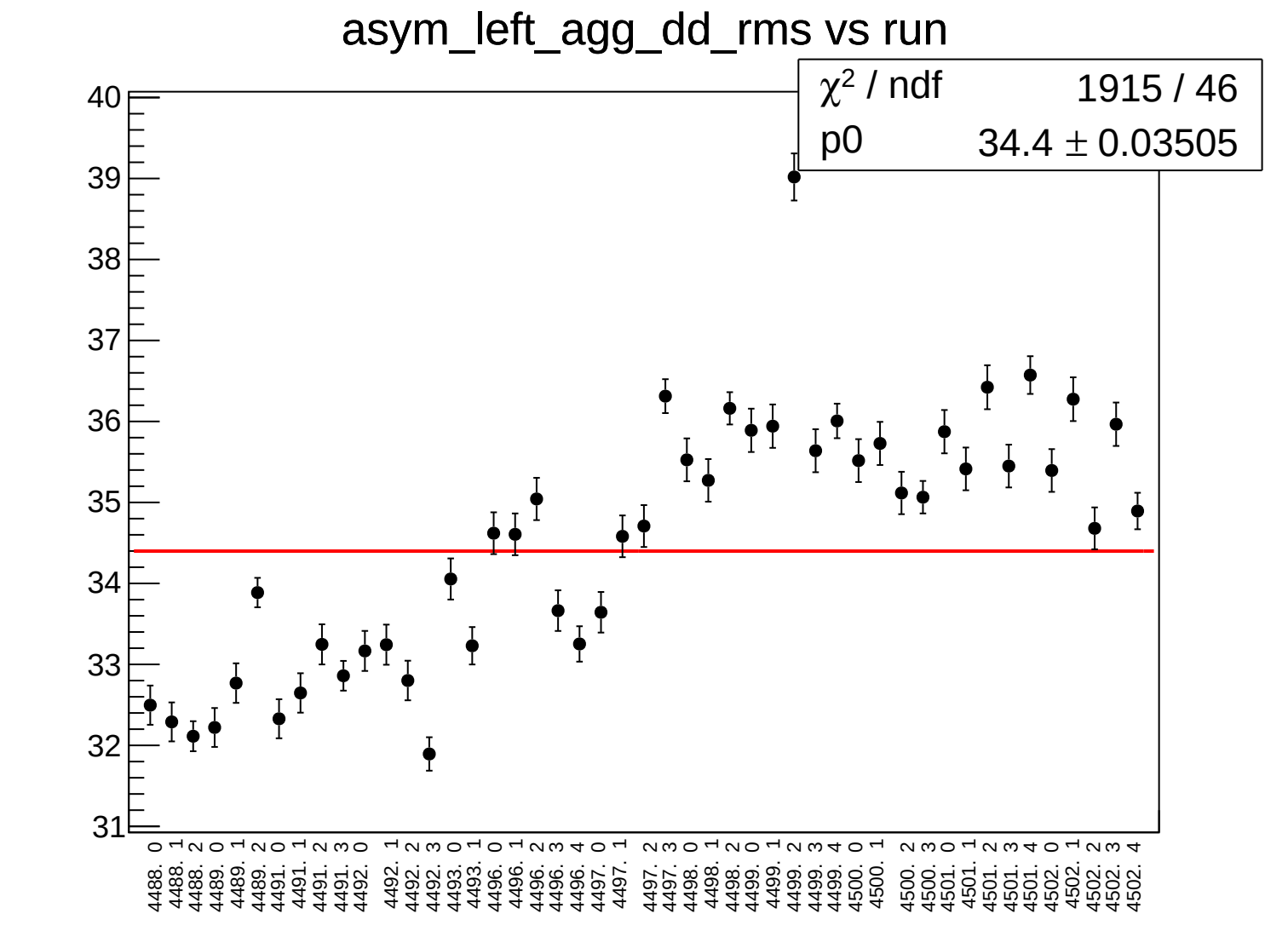

asym_ds_agg_dd_rms vs run
χ² / ndf 3075 / 46
p0 457.5 ± 0.4664
580
560
540
520
500
480
460
440
420
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

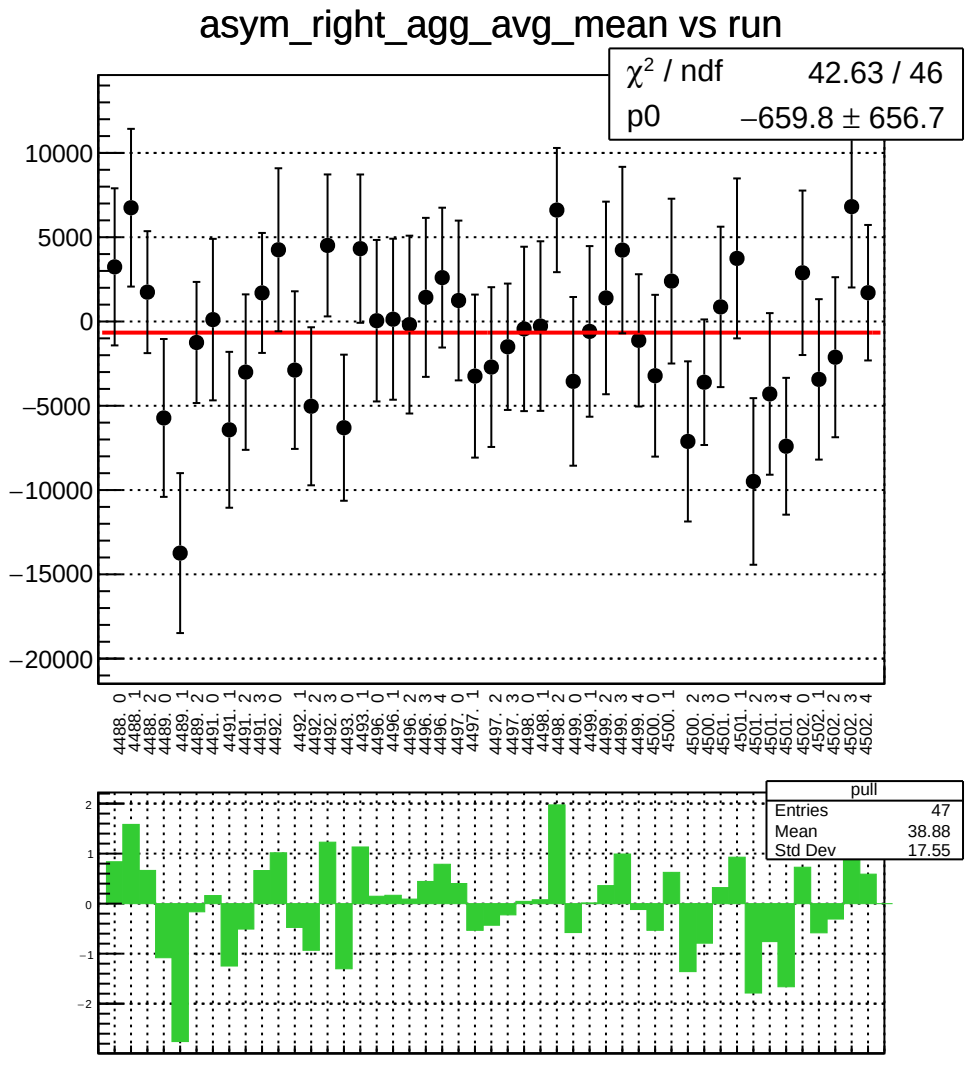

asym_left_agg_avg_mean vs run
χ² / ndf 25.26 / 46
p0 −72.07 ± 890
pull
Entries 47
Mean 143.9
Std Dev 113.1

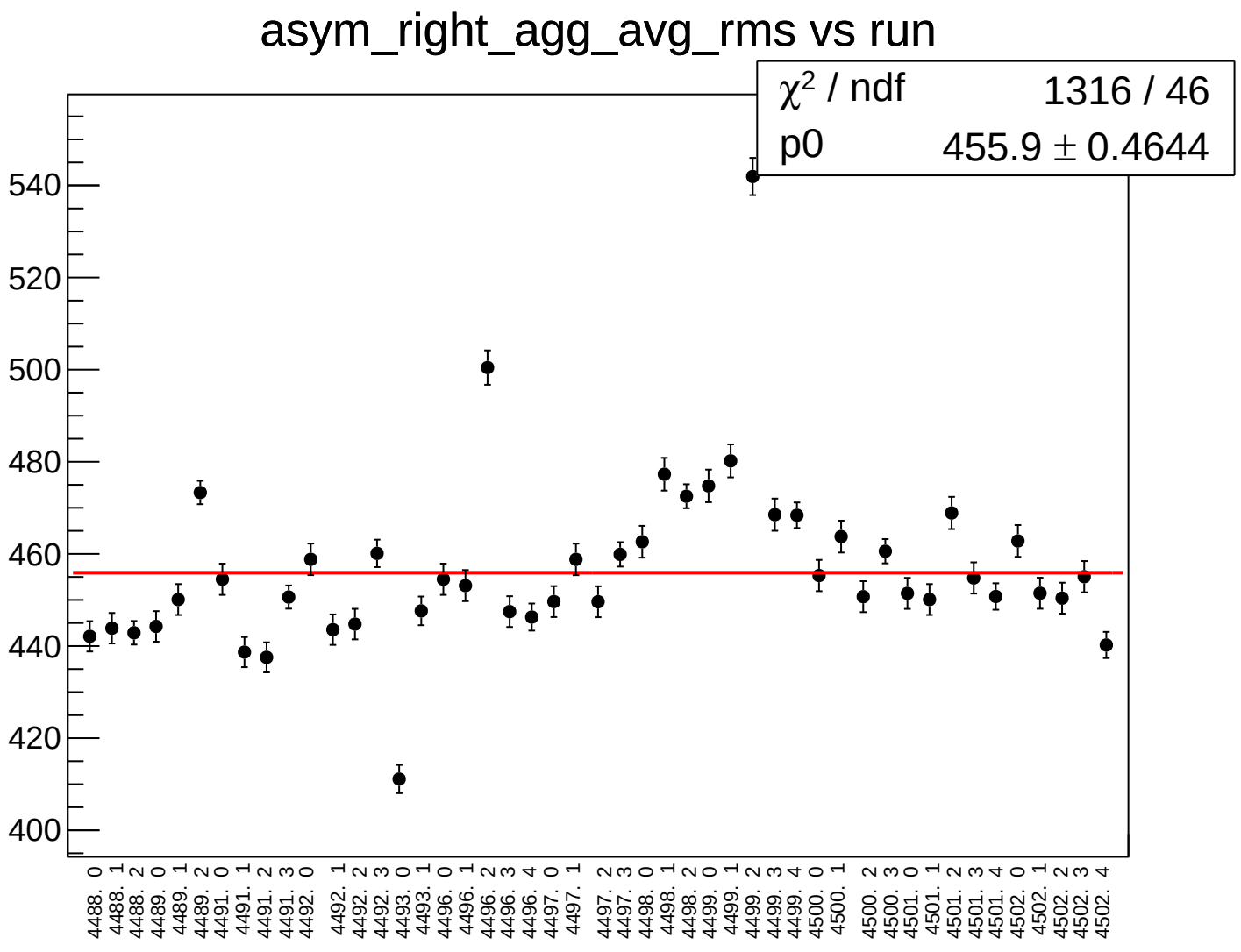

pull1D
Entries 47
Mean 0.0127
Std Dev 0.733

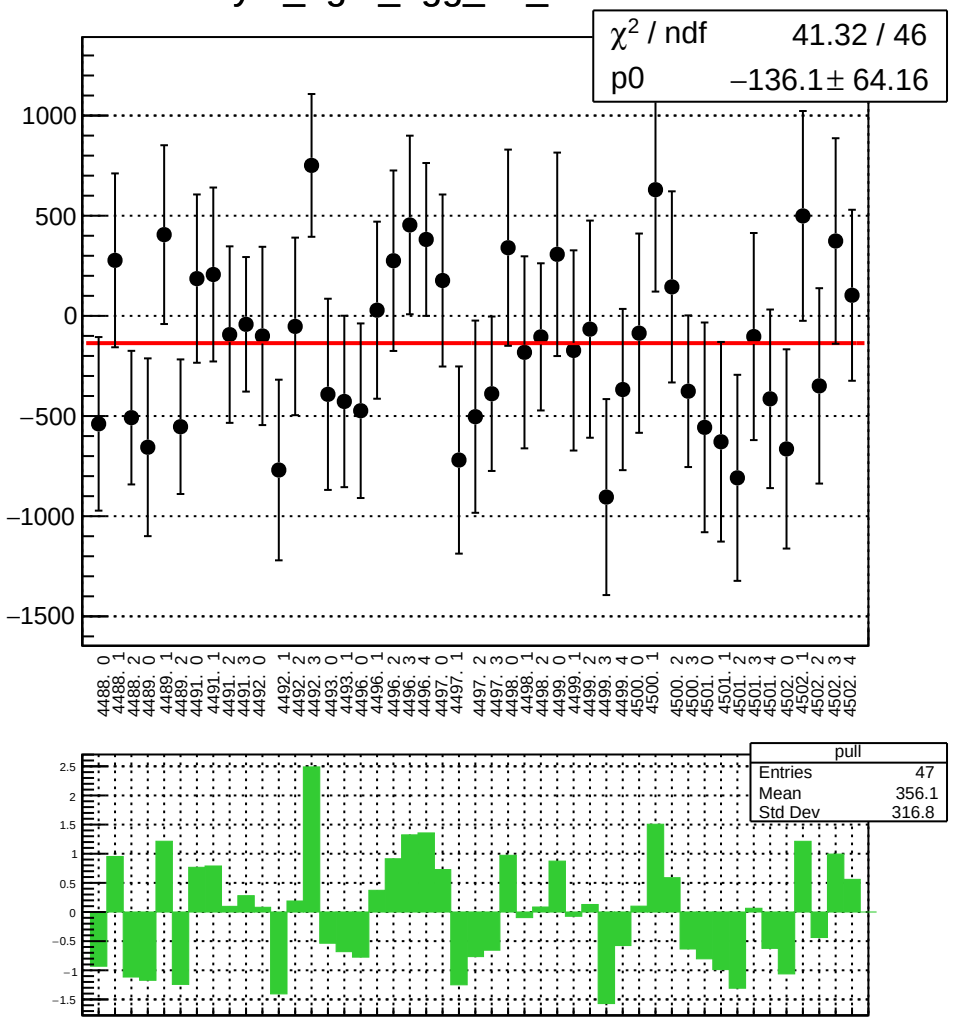

asym_left_agg_avg_rms vs run
χ² / ndf 1.407e+04 / 46
p0 613.8 ± 0.6293
800
750
700
650
600
550
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

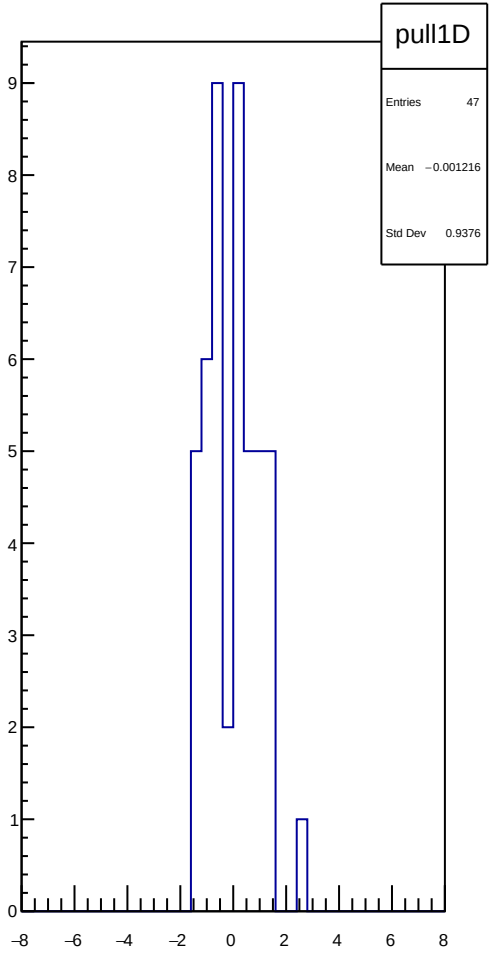

asym_left_agg_dd_mean vs run
χ² / ndf 40.54 / 46
p0 −61.82 ± 49.56
1000
500
0
−500
−1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 101.8
Std Dev 8.842
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.005652
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

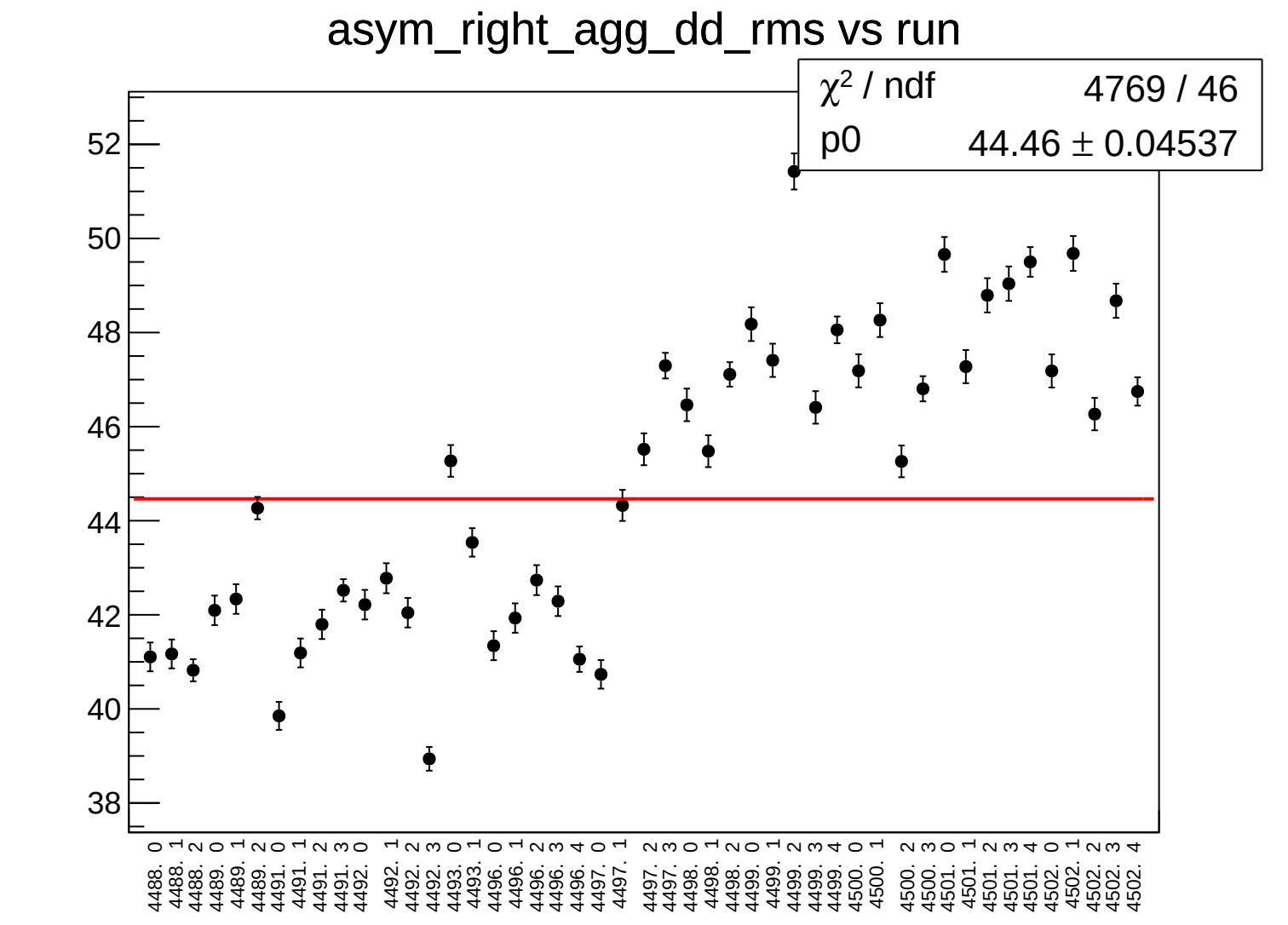

asym_left_agg_dd_rms vs run
χ² / ndf 1915 / 46
p0 34.4 ± 0.03505
40
39
38
37
36
35
34
33
32
31
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

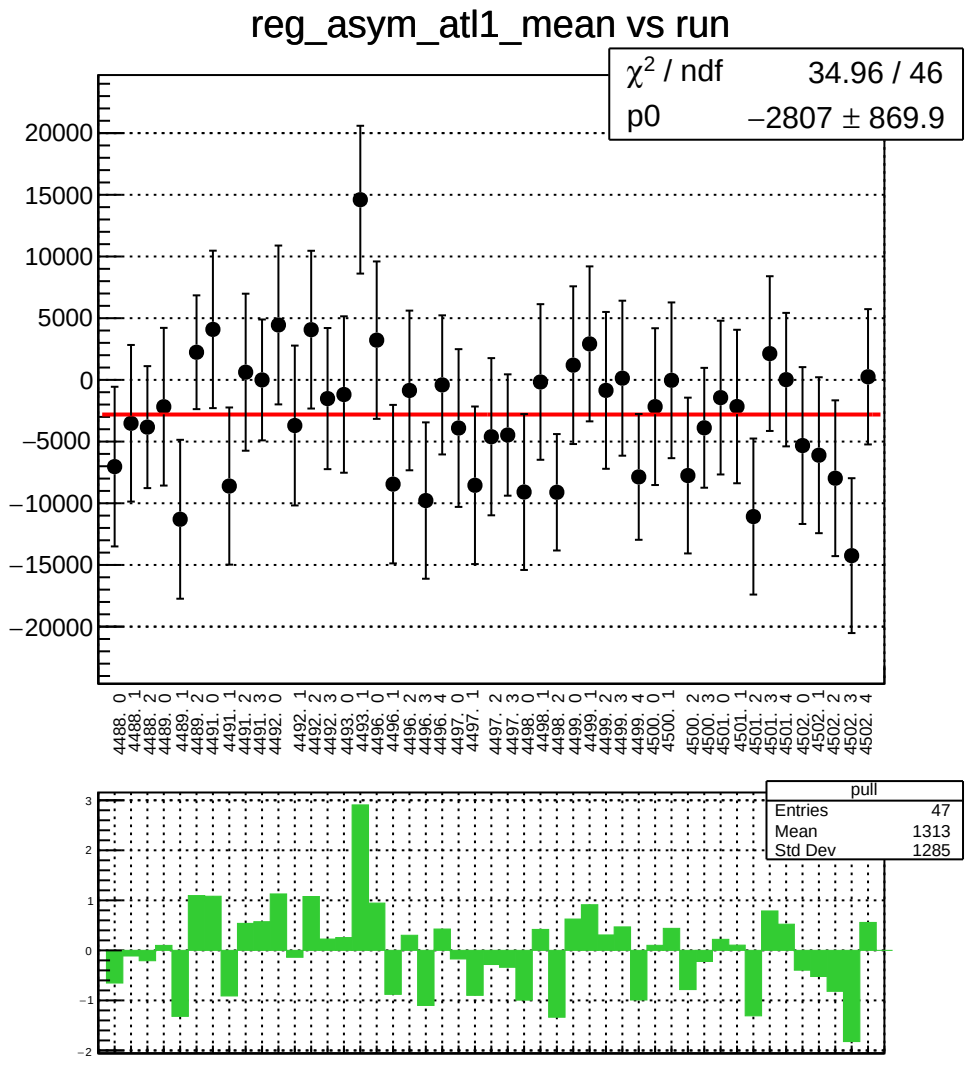

asym_right_agg_avg_mean vs run
χ² / ndf 42.63 / 46
p0 −659.8 ± 656.7
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 38.88
Std Dev 17.55
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.01269
Std Dev 0.9523
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

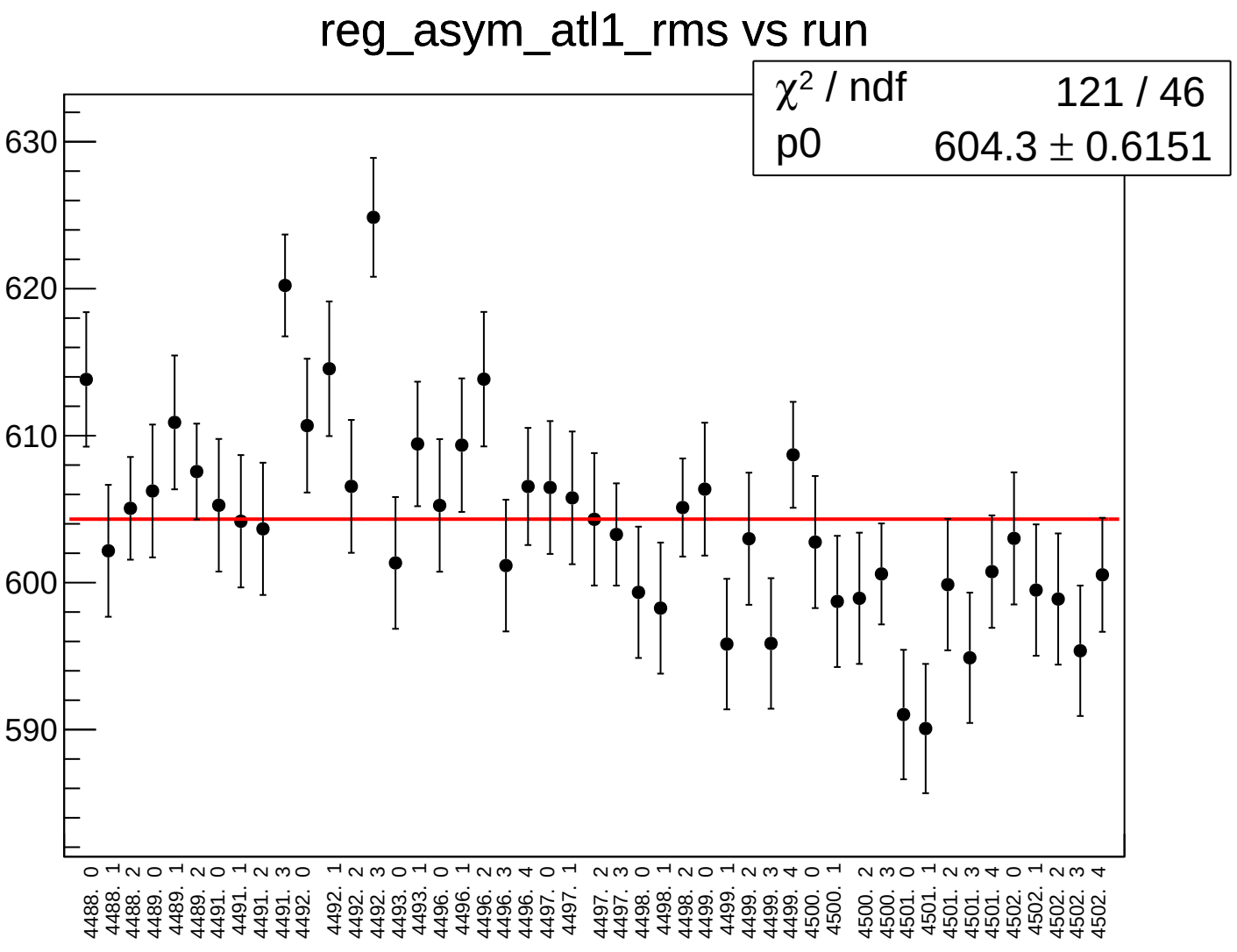

asym_right_agg_avg_rms vs run
χ² / ndf 1316 / 46
p0 455.9 ± 0.4644
540
520
500
480
460
440
420
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

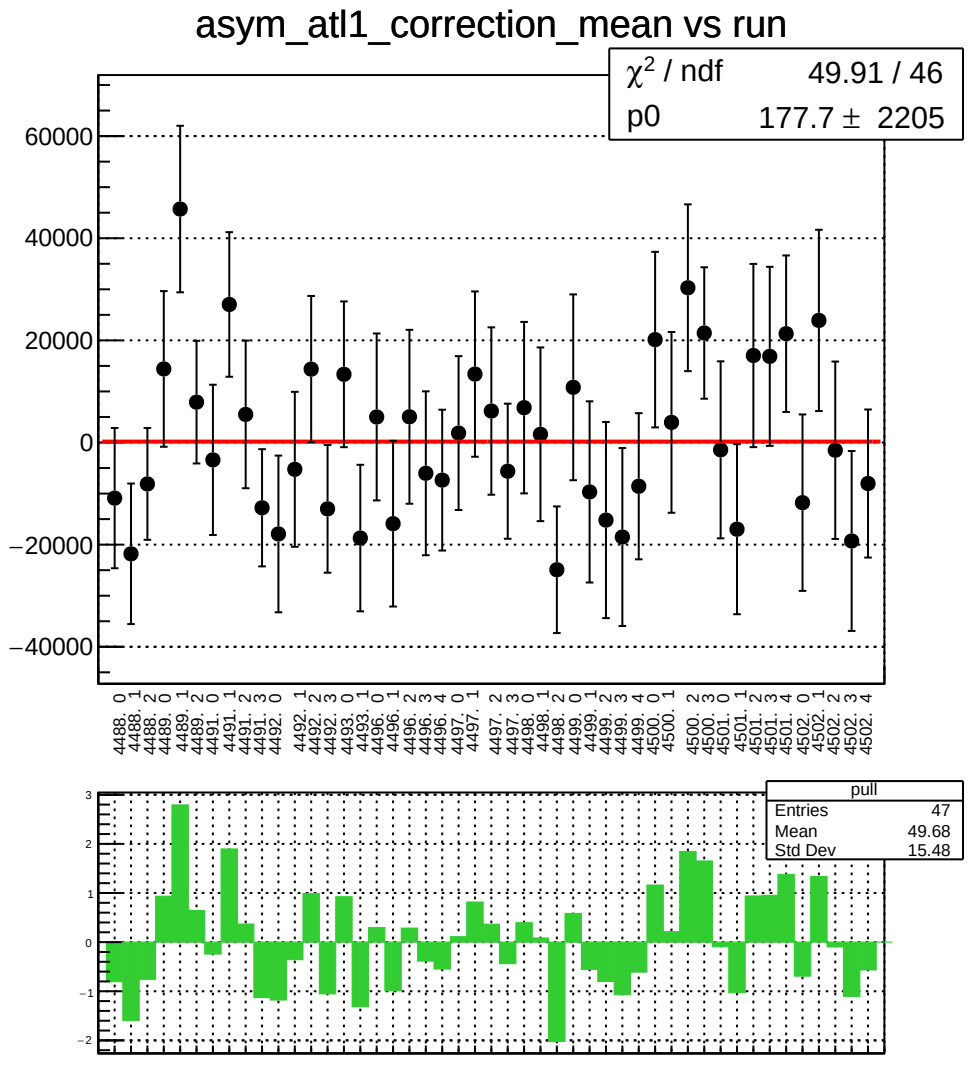

asym_right_agg_dd_mean vs run
χ² / ndf 41.32 / 46
p0 −136.1± 64.16
1000
500
0
−500
−1000
−1500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 356.1
Std Dev 316.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

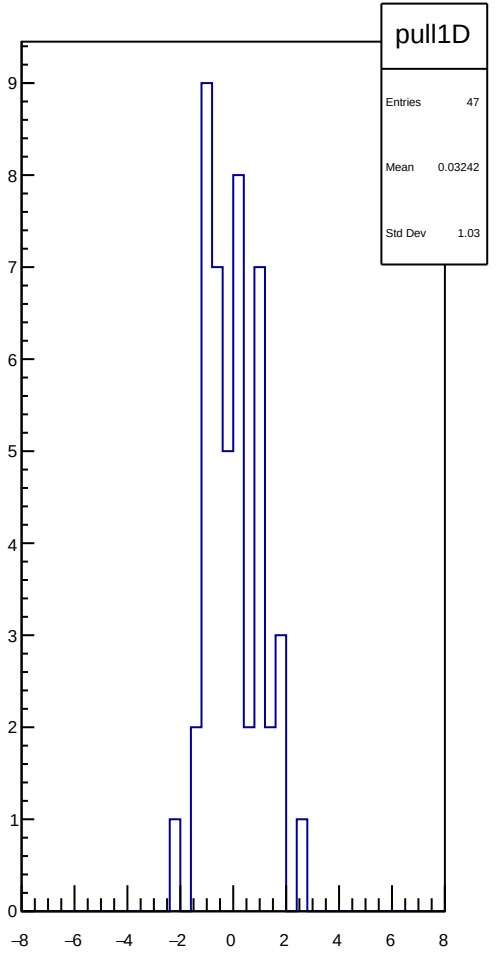

pull1D
Entries 47
Mean −0.001216
Std Dev 0.9376
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

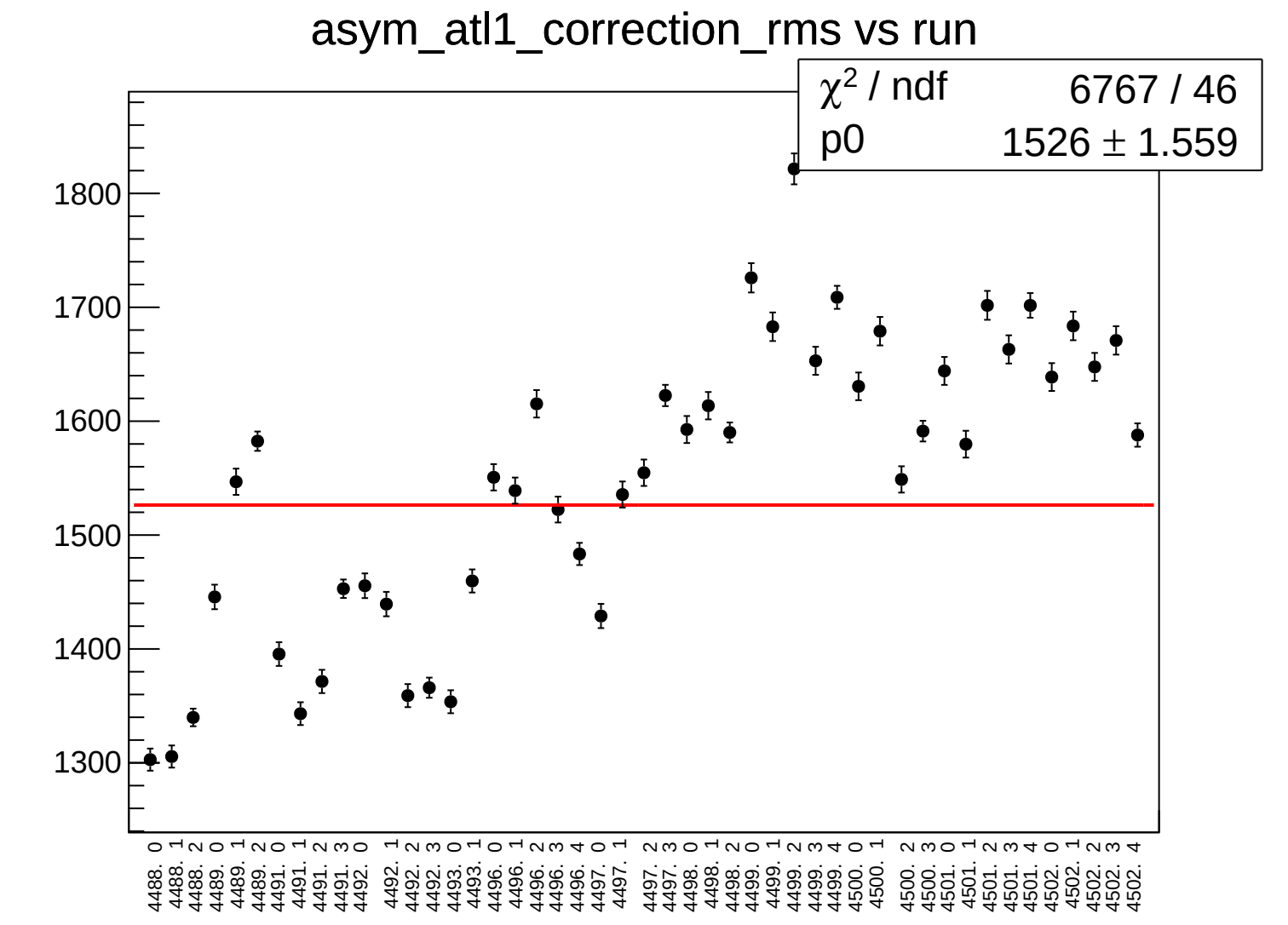

asym_right_agg_dd_rms vs run
χ² / ndf 4769 / 46
p0 44.46 ± 0.04537
52
50
48
46
44
42
40
38
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

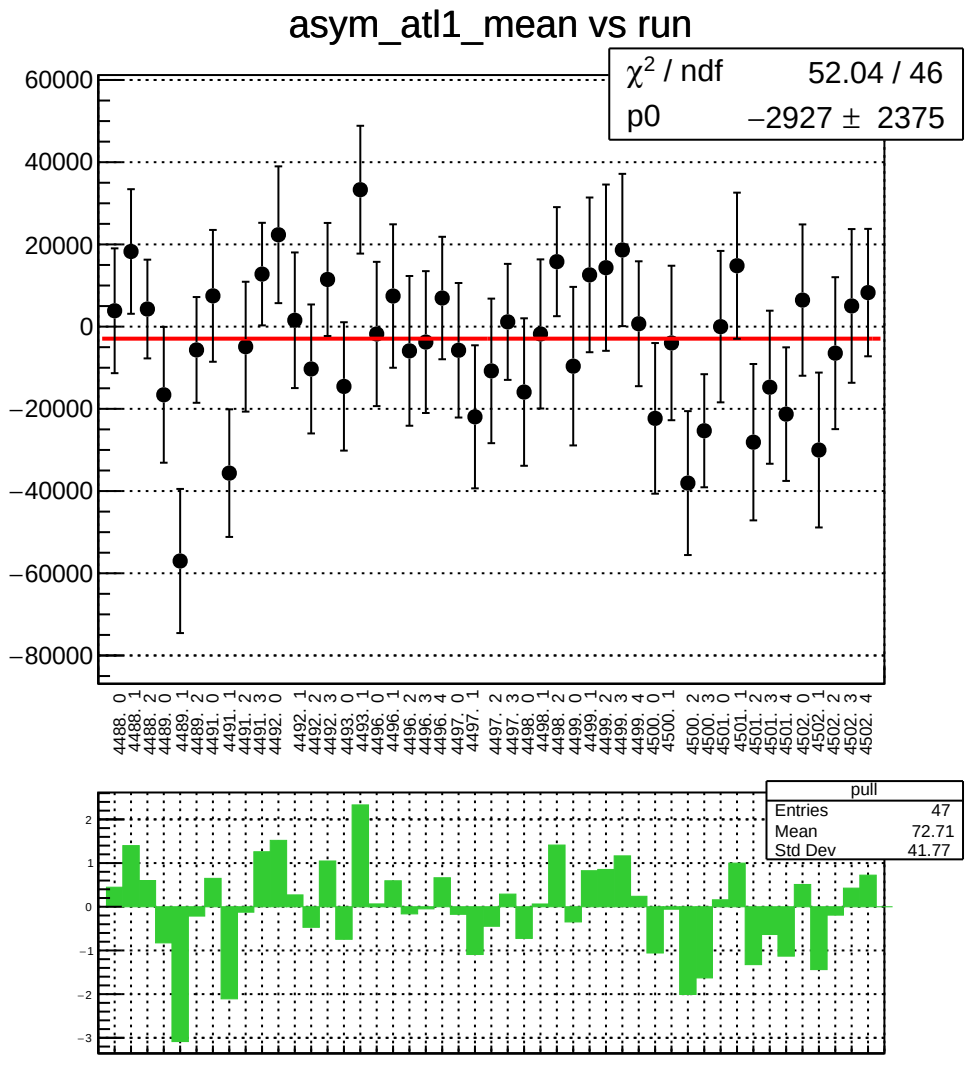

reg_asym_atl1_mean vs run
χ² / ndf 34.96 / 46
p0 −2807 ± 869.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 1313
Std Dev 1285
3
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.0018
Std Dev 0.8625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

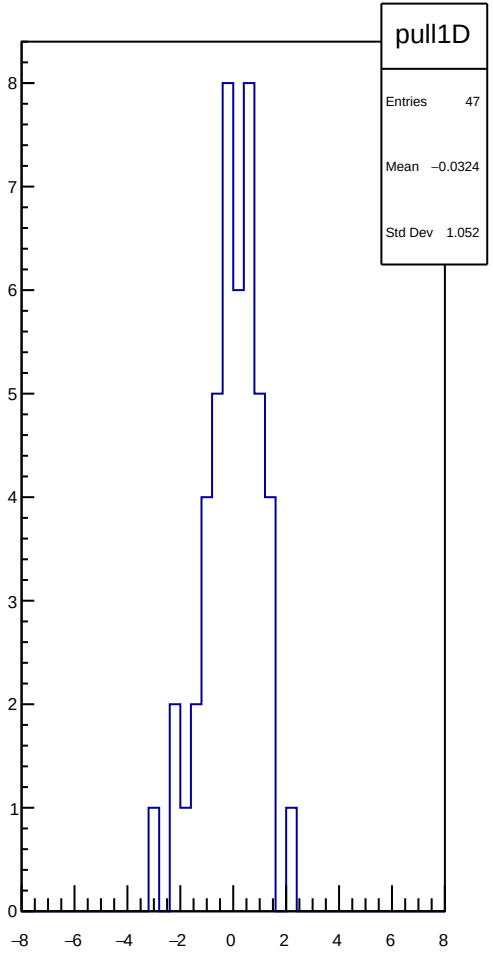

reg_asym_atl1_rms vs run
χ² / ndf 121 / 46
p0 604.3 ± 0.6151
630
620
610
600
590
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

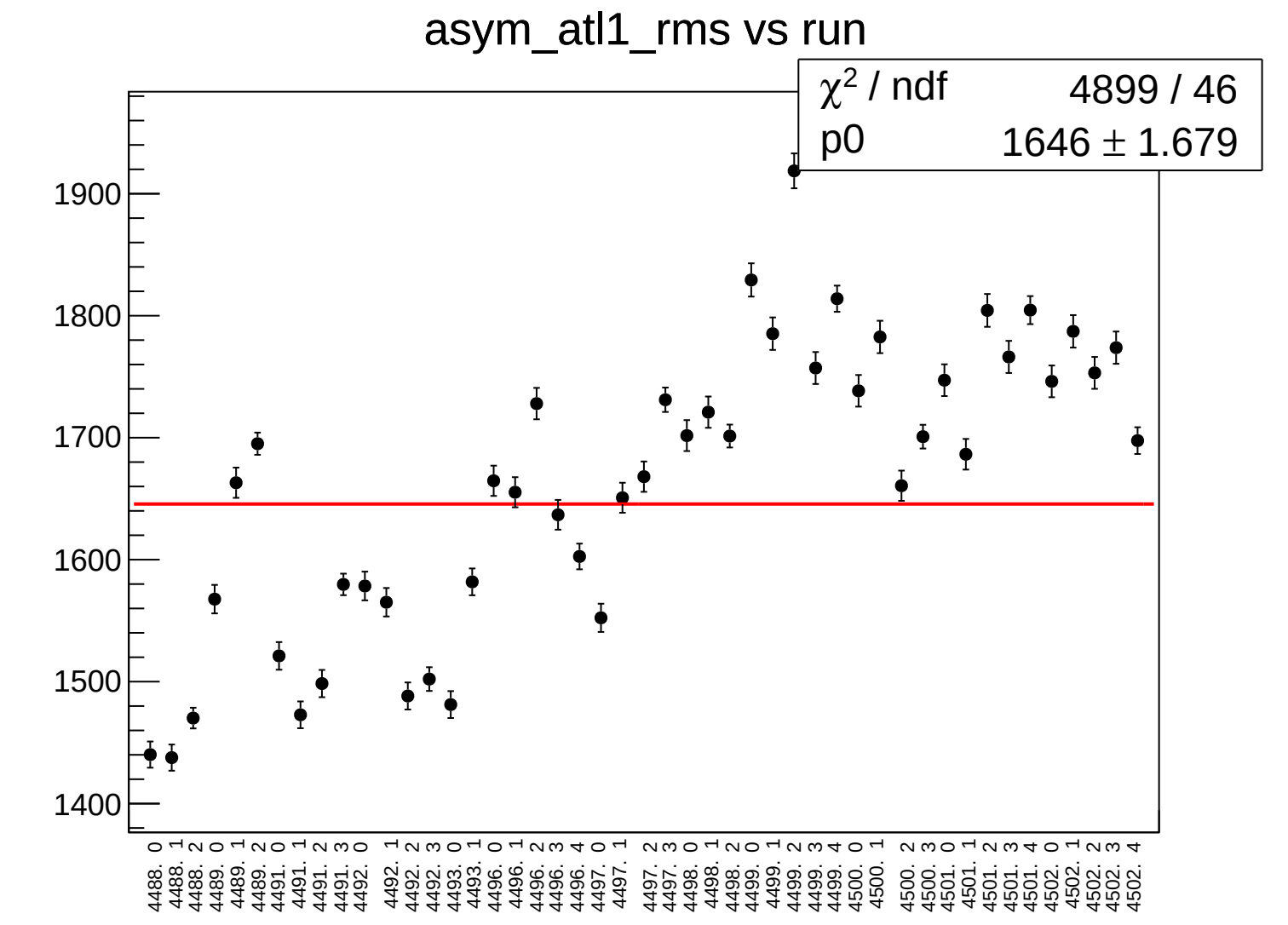

asym_atl1_correction_mean vs run
χ² / ndf 49.91 / 46
p0 177.7 ± 2205
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 49.68
Std Dev 15.48
3
2
1
0
−1
−2

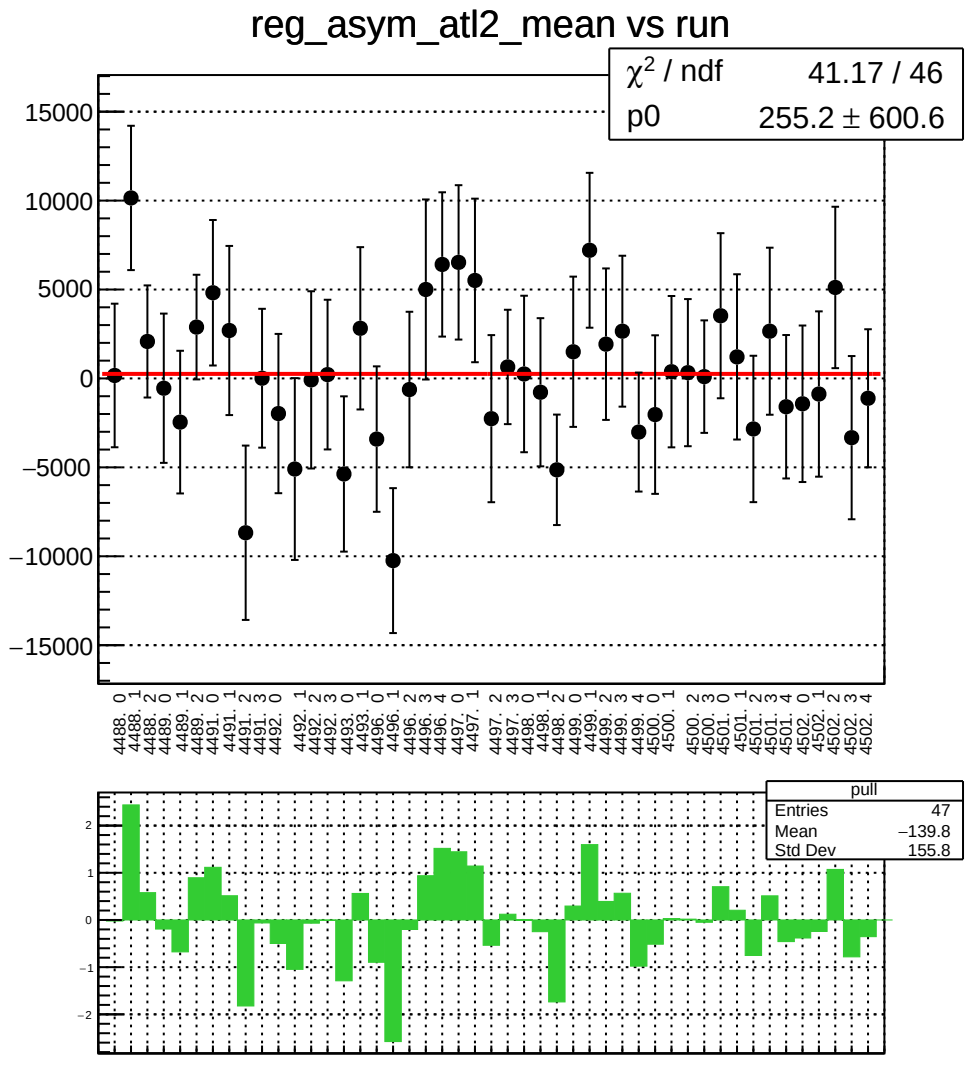

pull1D
Entries 47
Mean 0.03242
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

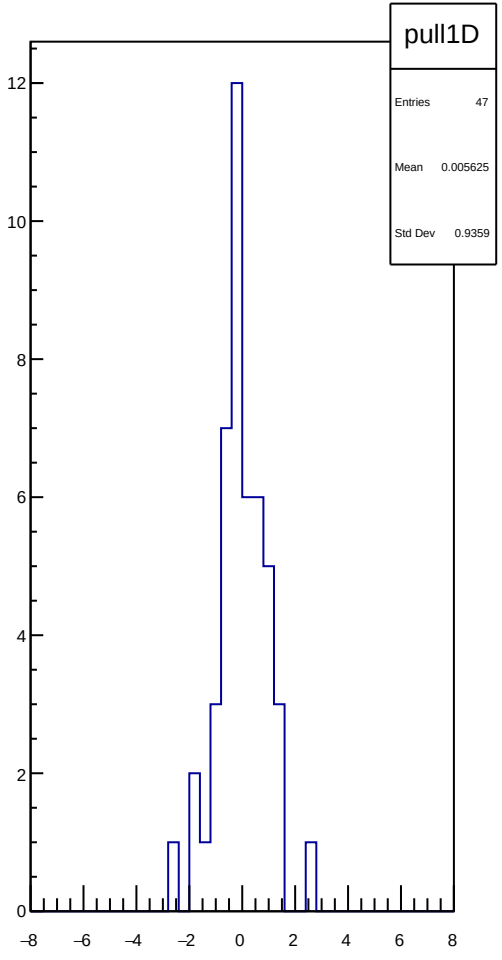

asym_atl1_correction_rms vs run
χ² / ndf 6767 / 46
p0 1526 ± 1.559
1800
1700
1600
1500
1400
1300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

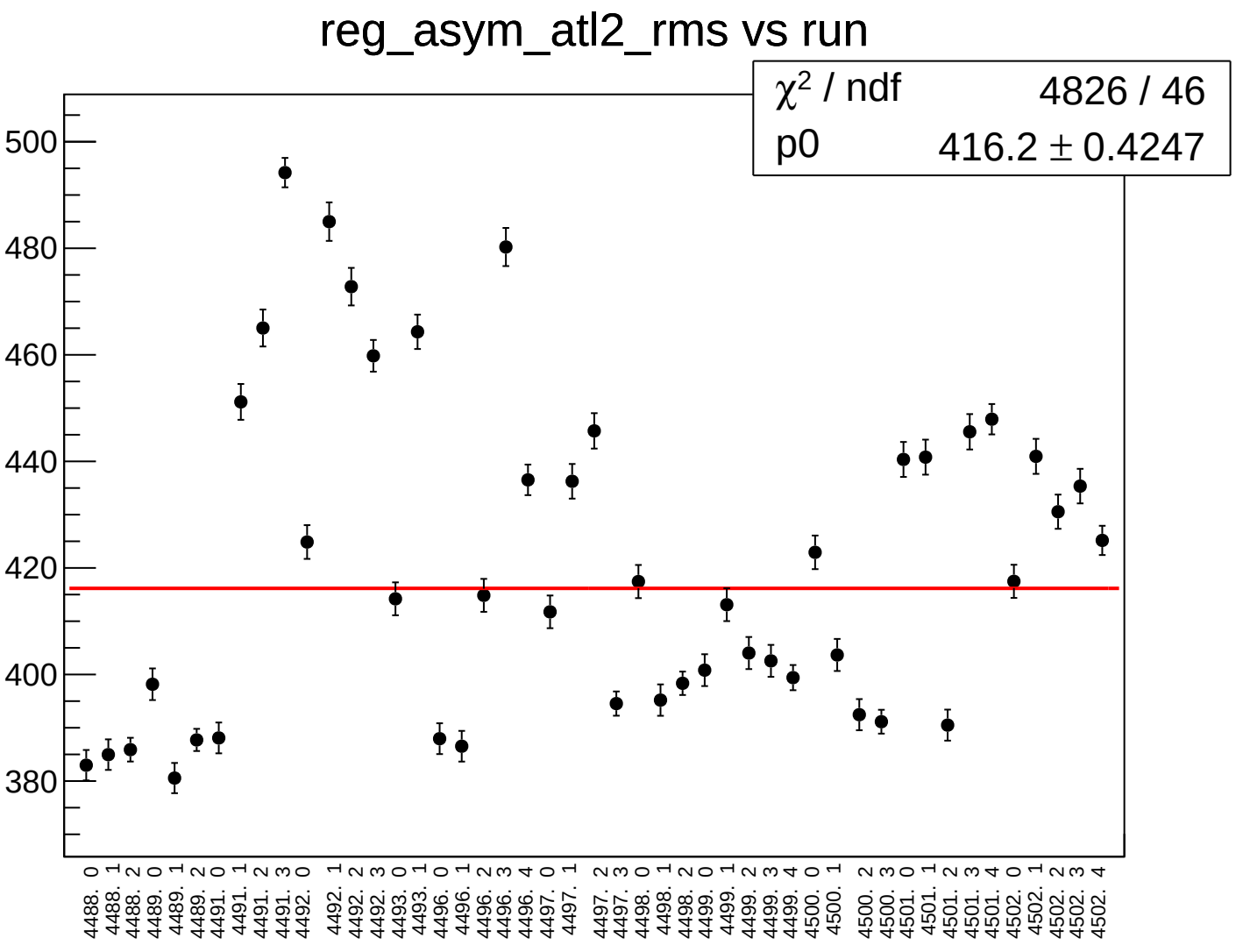

asym_atl1_mean vs run
χ² / ndf 52.04 / 46
p0 −2927 ± 2375
pull
Entries 47
Mean 72.71
Std Dev 41.77

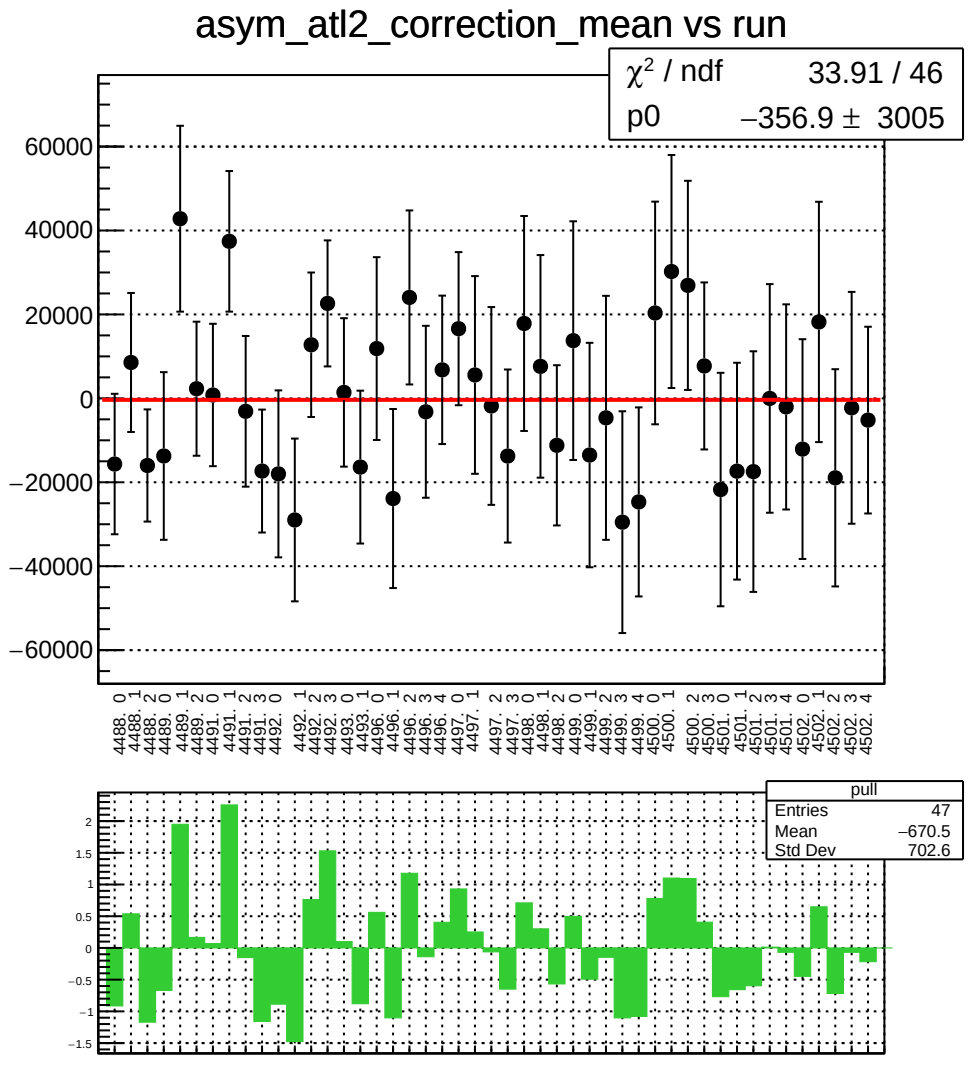

pull1D
Entries 47
Mean −0.0324
Std Dev 1.052

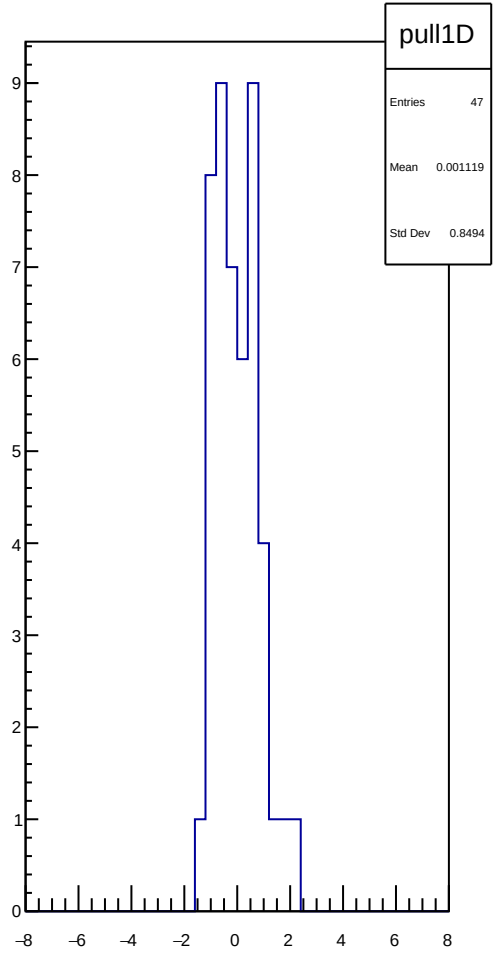

asym_atl1_rms vs run
χ² / ndf 4899 / 46
p0 1646 ± 1.679
1900
1800
1700
1600
1500
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

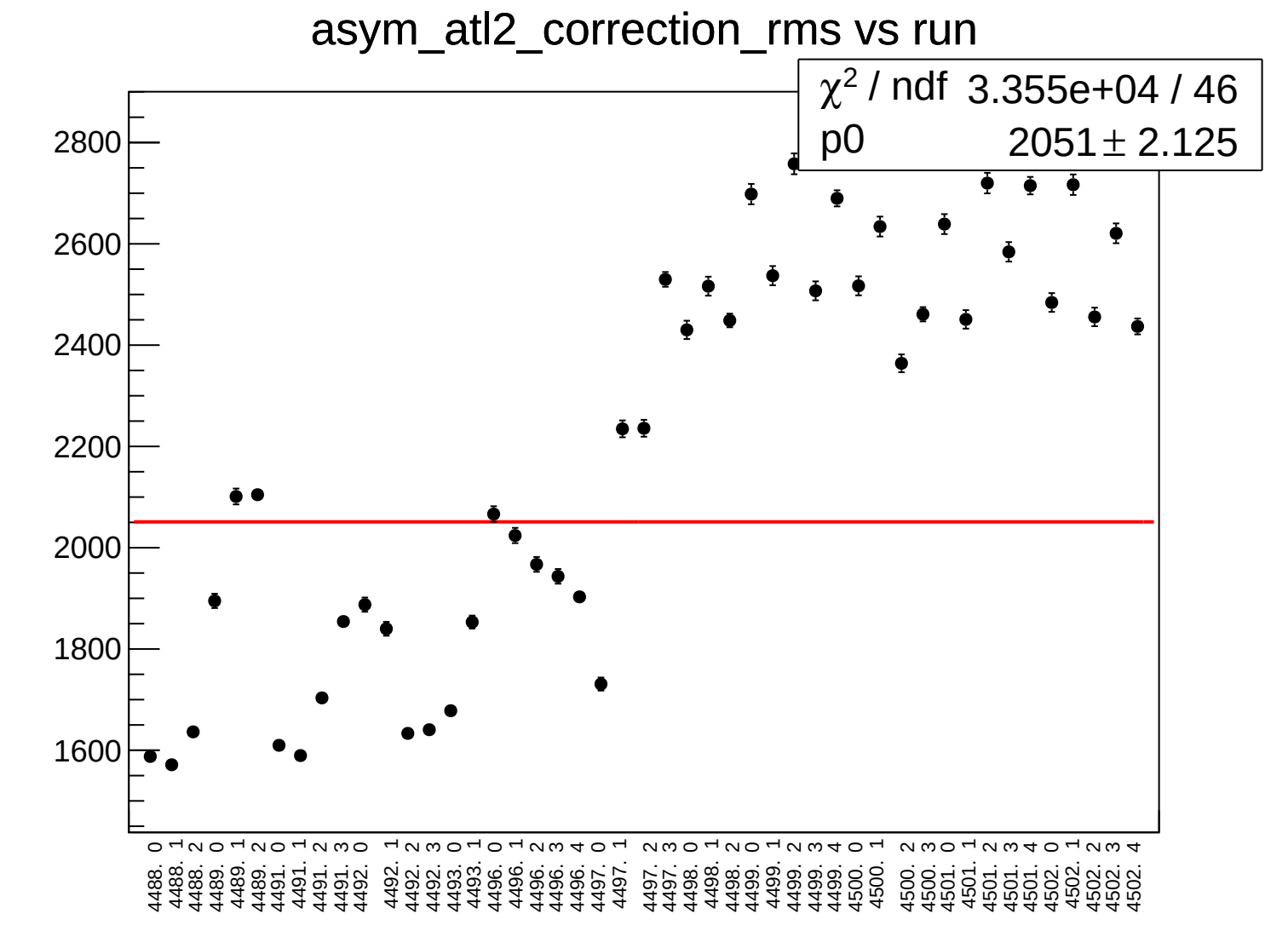

reg_asym_atl2_mean vs run
χ² / ndf 41.17 / 46
p0 255.2 ± 600.6
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −139.8
Std Dev 155.8
2
1
0
−1
−2

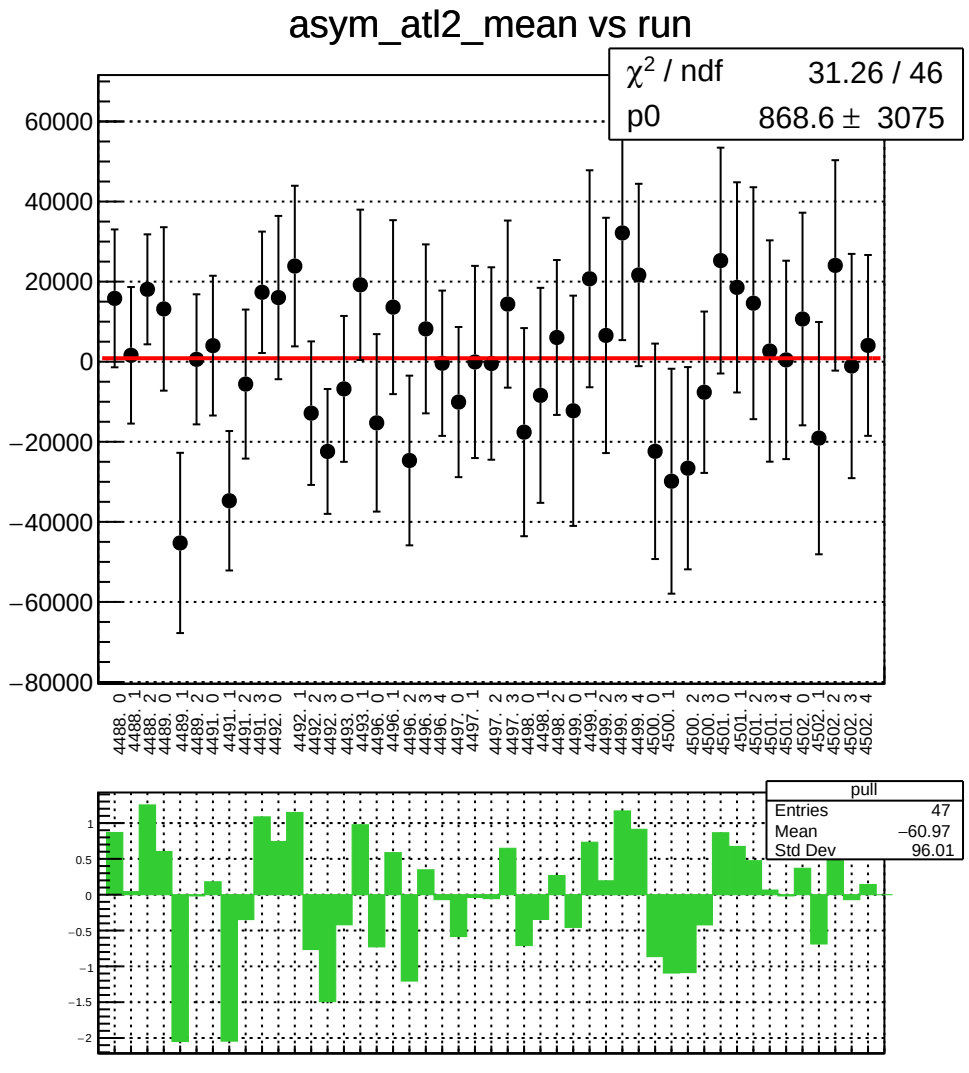

pull1D
Entries 47
Mean 0.005625
Std Dev 0.9359
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

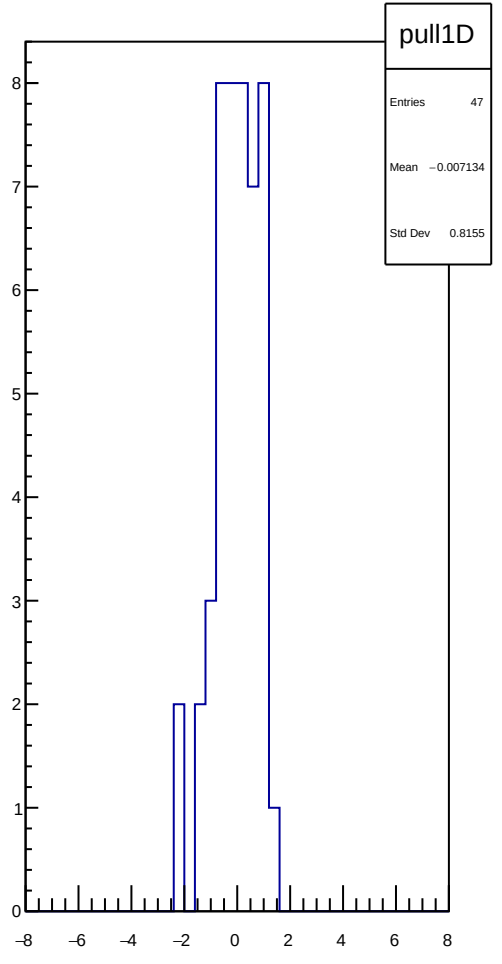

reg_asym_atl2_rms vs run
χ² / ndf 4826 / 46
p0 416.2 ± 0.4247
500
480
460
440
420
400
380
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

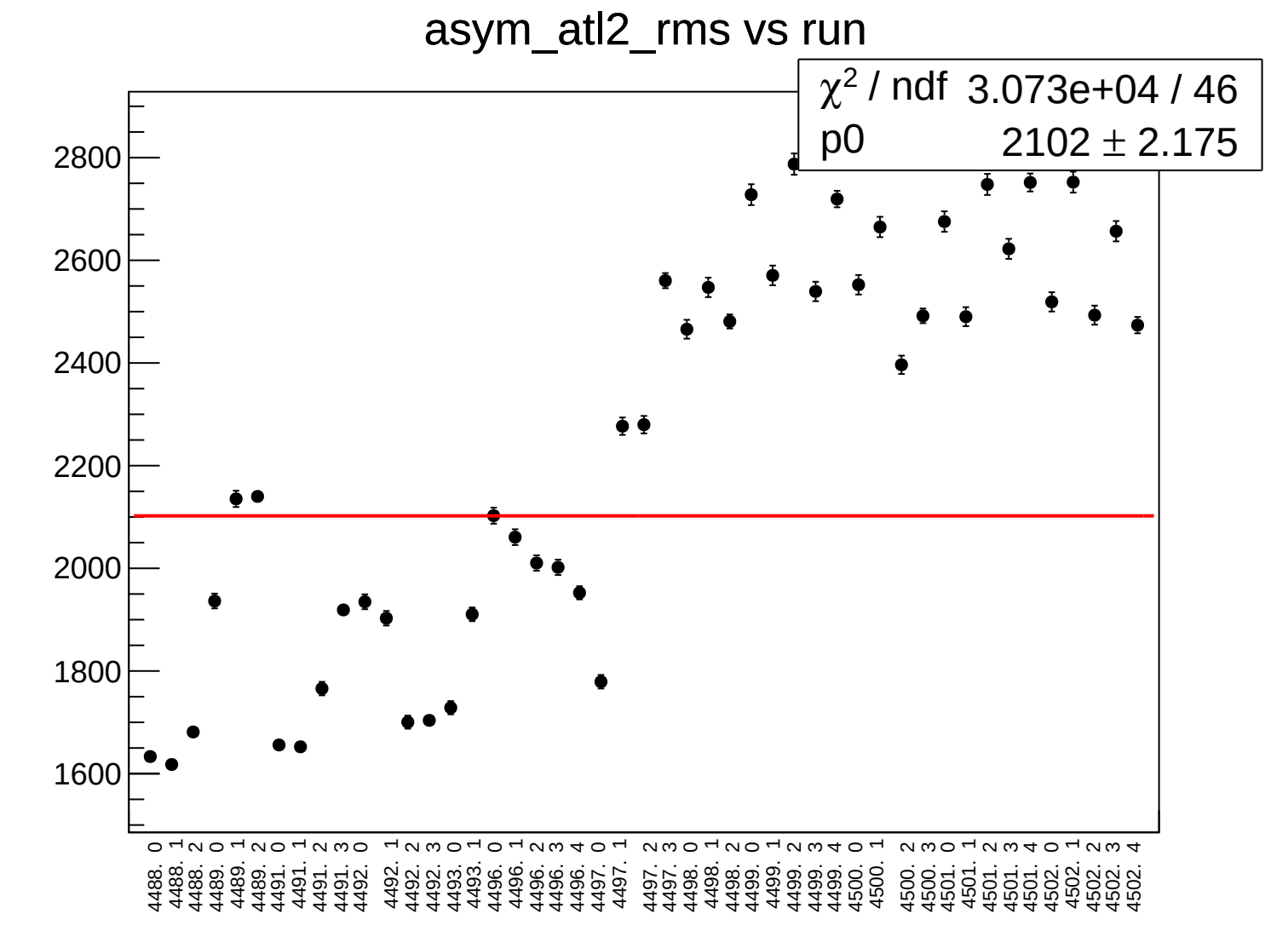

asym_atl2_correction_mean vs run
χ² / ndf 33.91 / 46
p0 −356.9 ± 3005
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −670.5
Std Dev 702.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

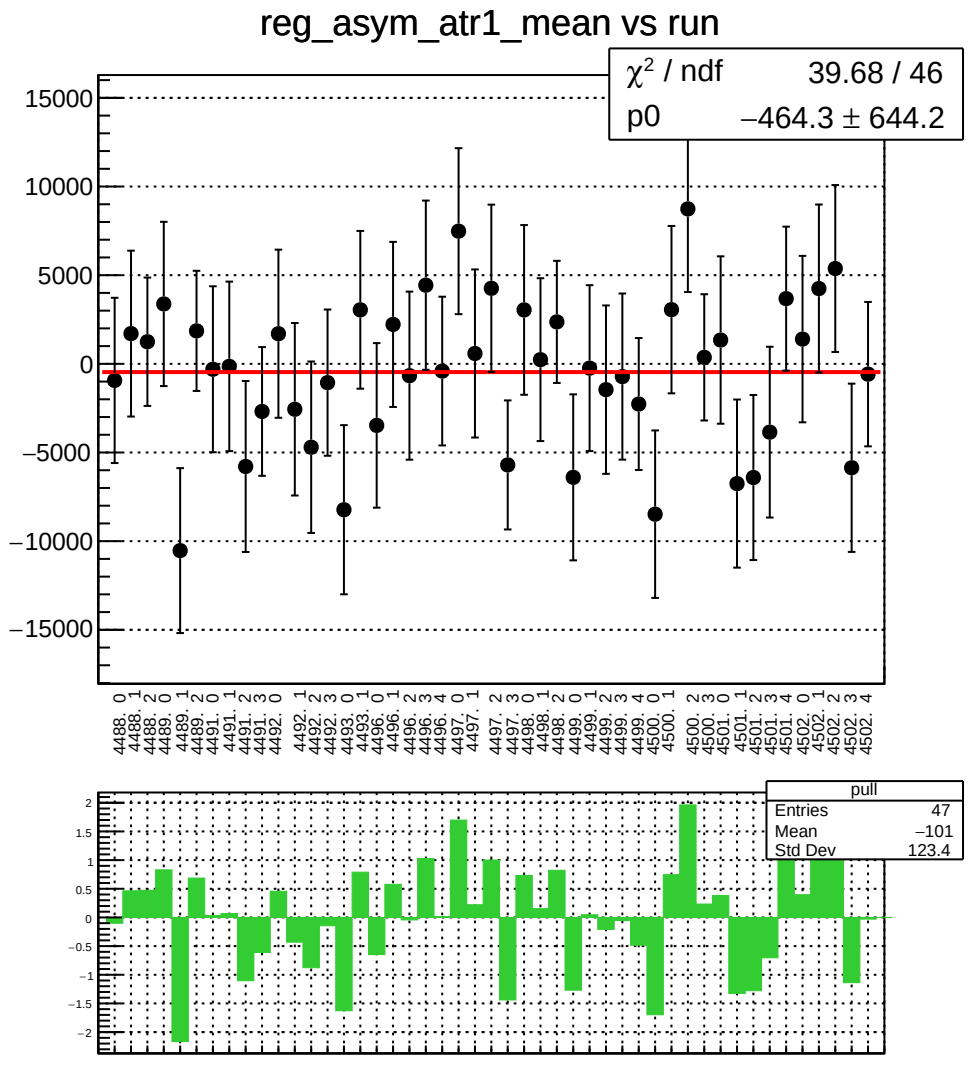

pull1D
Entries 47
Mean 0.001119
Std Dev 0.8494
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

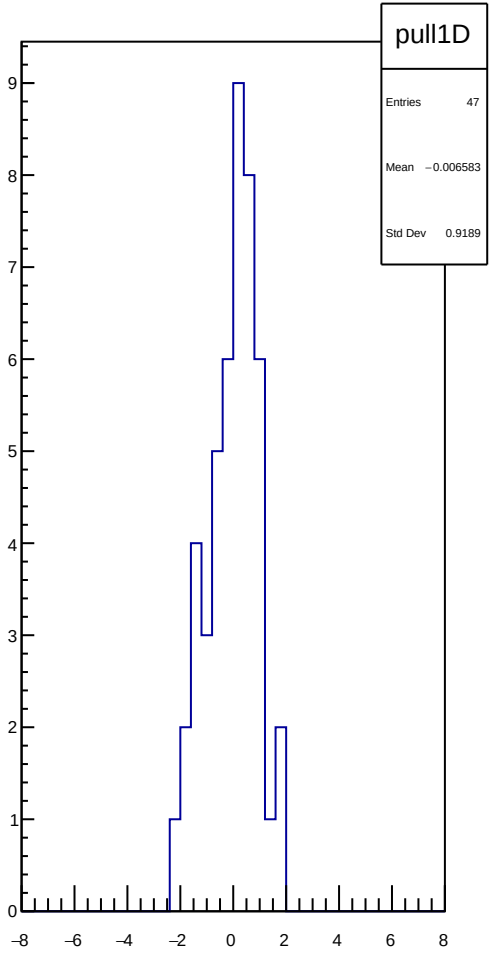

asym_atl2_correction_rms vs run
χ² / ndf 3.355e+04 / 46
p0 2051 ± 2.125
2800
2600
2400
2200
2000
1800
1600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

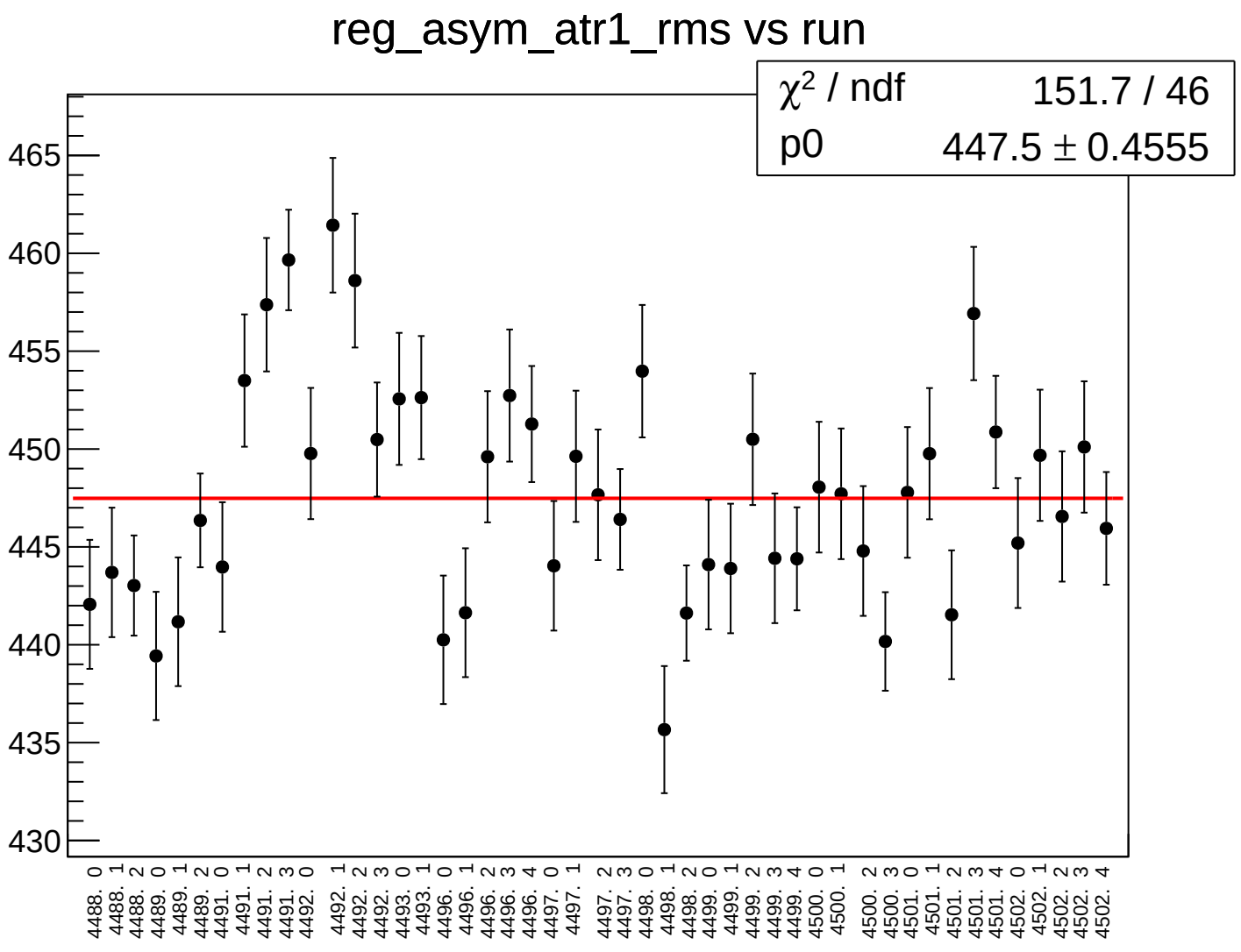

asym_atl2_mean vs run
χ^2 / ndf 31.26 / 46
p0 868.6 ± 3075
60000
40000
20000
0
−20000
−40000
−60000
−80000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −60.97
Std Dev 96.01
1
0.5
0
−0.5
−1
−1.5
−2

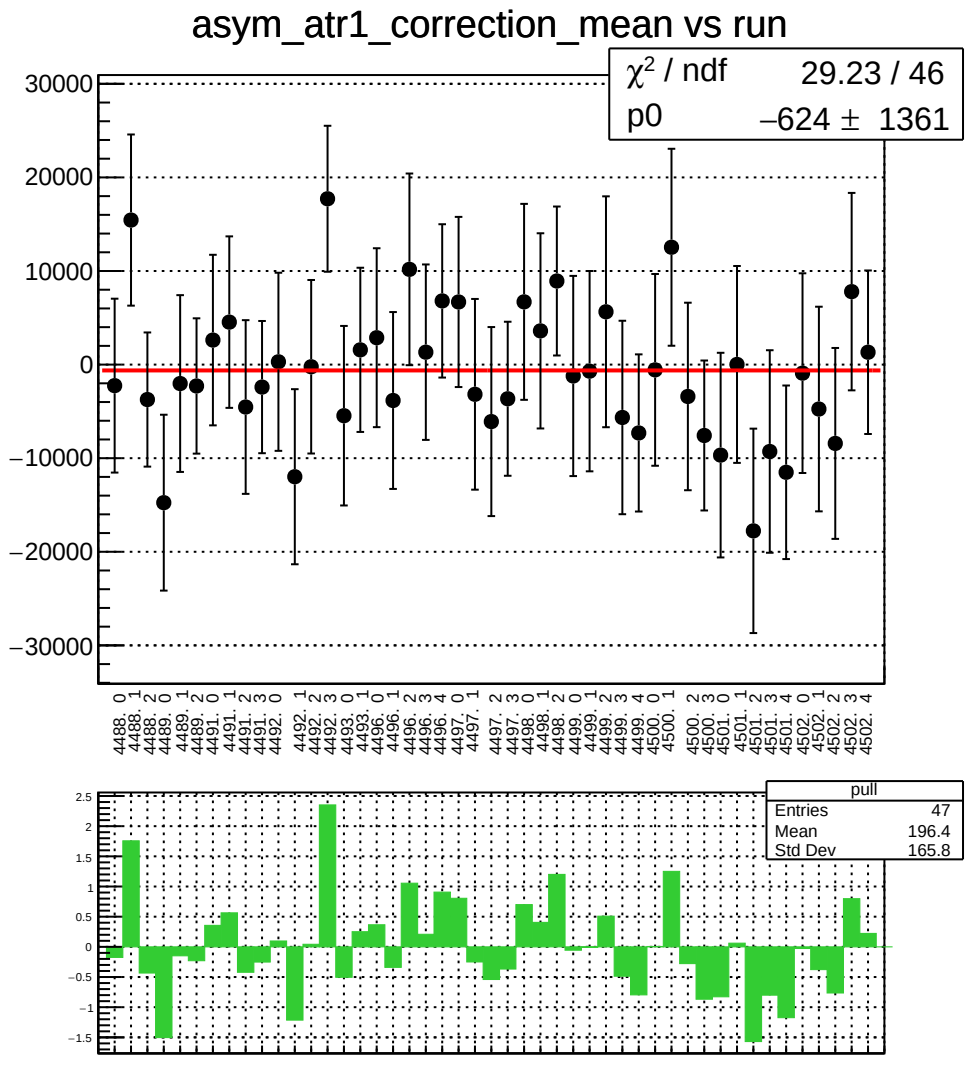

pull1D
Entries 47
Mean −0.007134
Std Dev 0.8155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

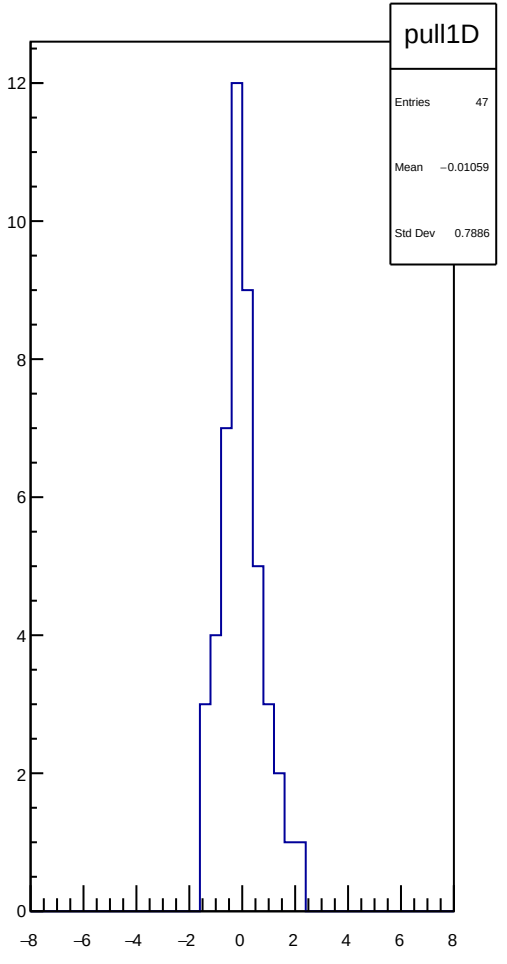

asym_atl2_rms vs run
χ² / ndf 3.073e+04 / 46
p0 2102 ± 2.175
2800
2600
2400
2200
2000
1800
1600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

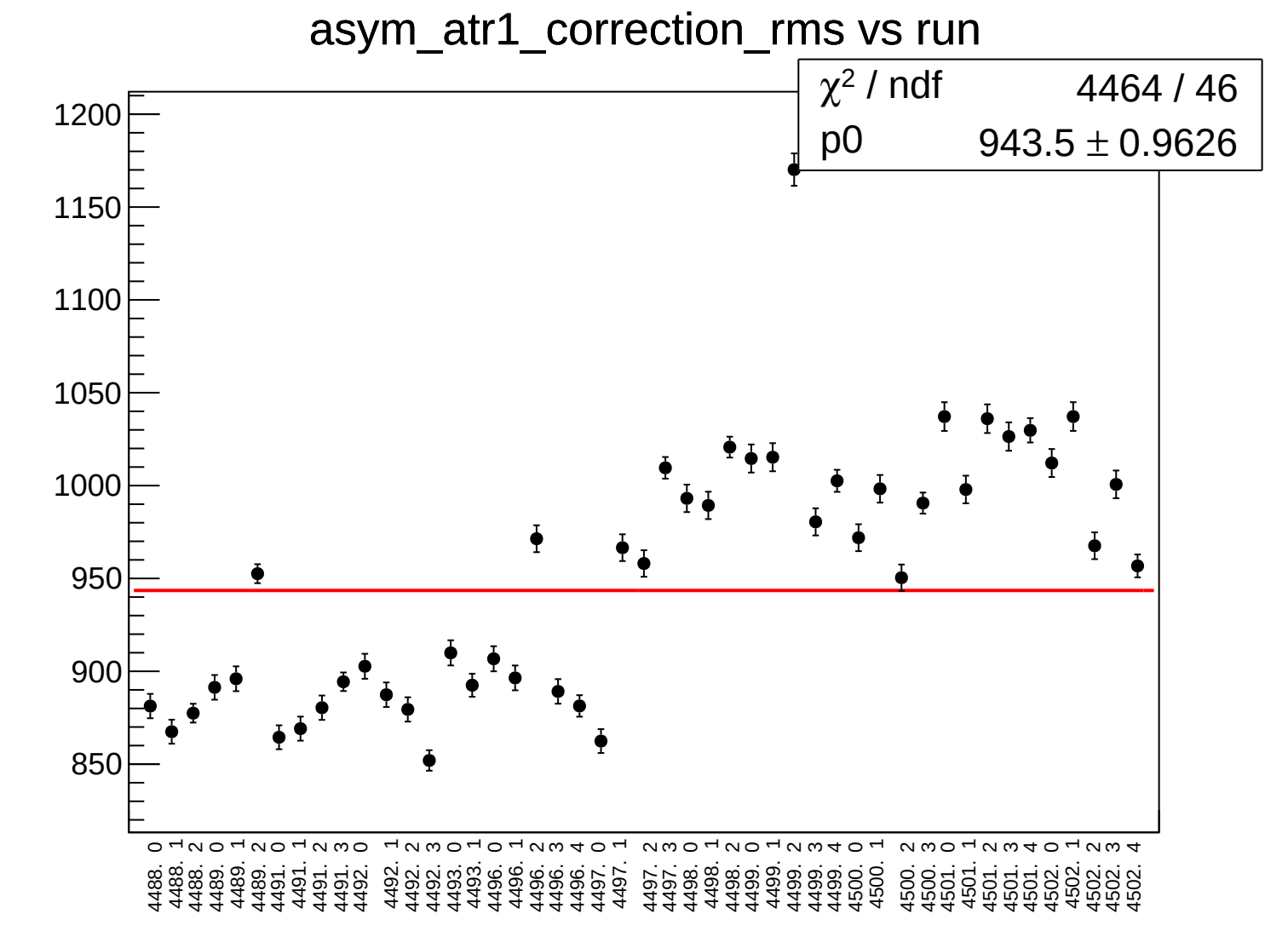

reg_asym_atr1_mean vs run
χ² / ndf 39.68 / 46
p0 −464.3 ± 644.2
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −101
Std Dev 123.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

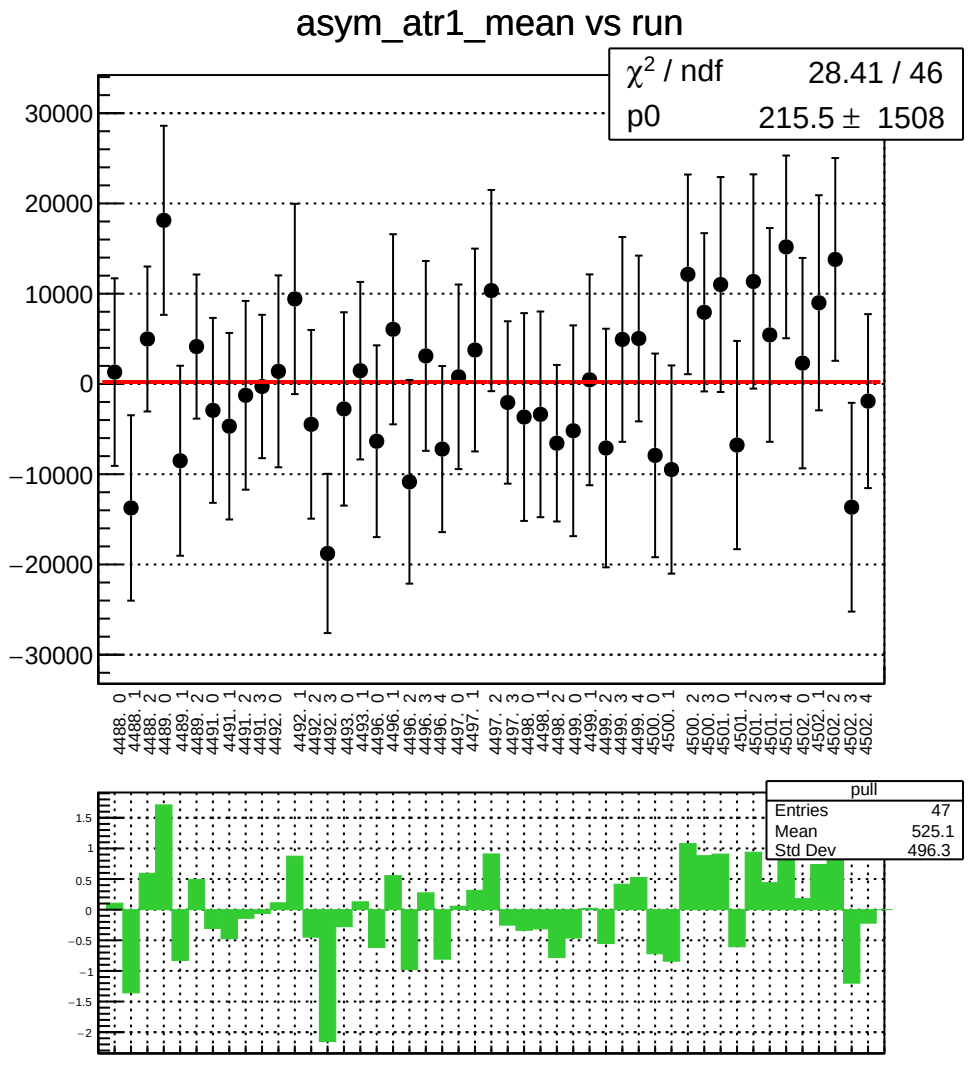

pull1D
Entries 47
Mean −0.006583
Std Dev 0.9189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

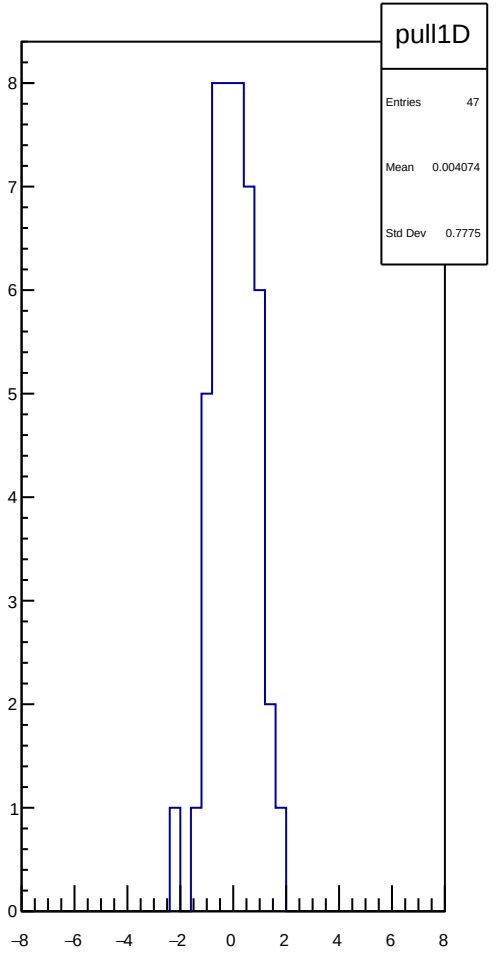

reg_asym_atr1_rms vs run
χ² / ndf 151.7 / 46
p0 447.5 ± 0.4555
465
460
455
450
445
440
435
430
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

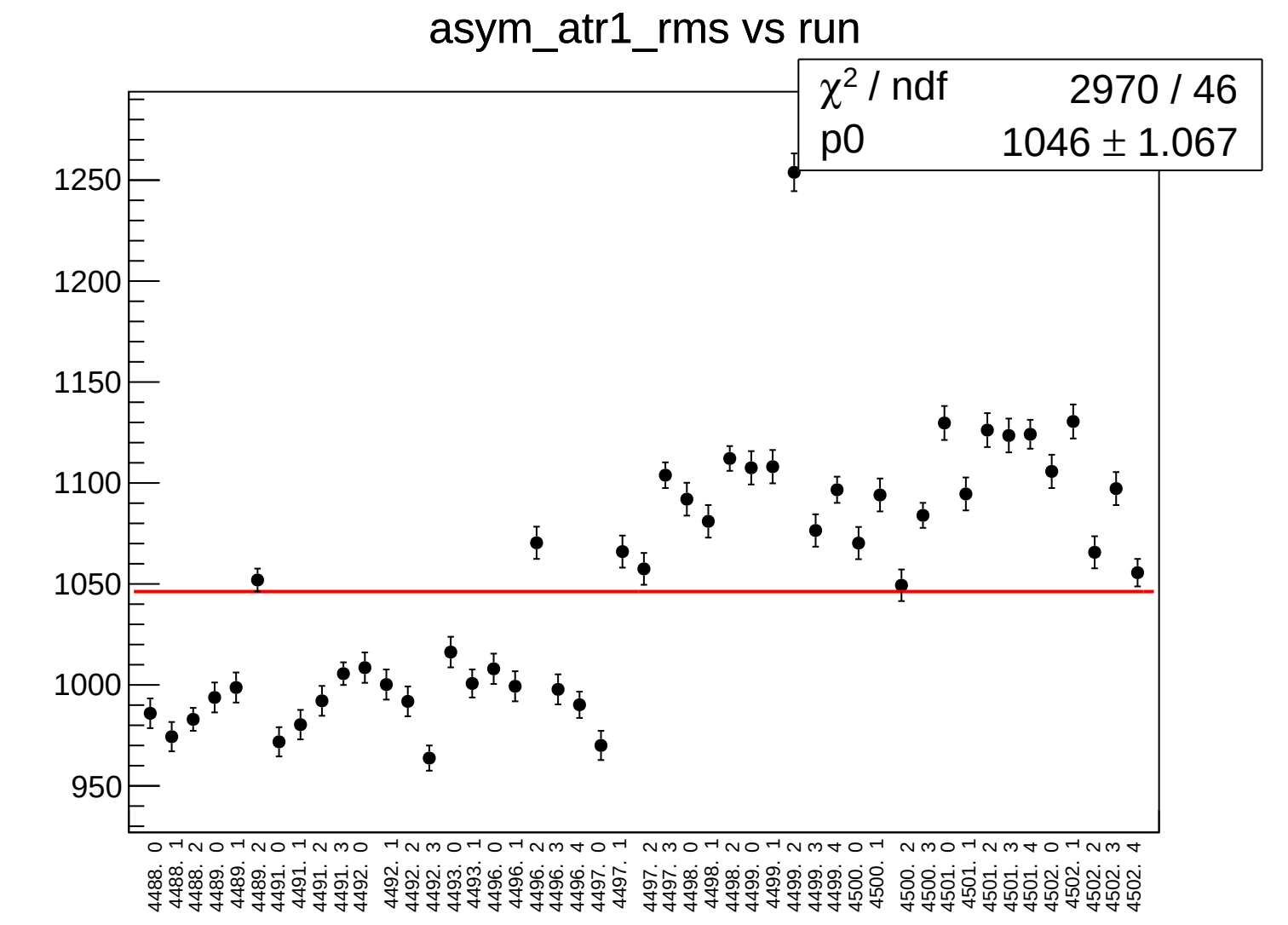

asym_atr1_correction_mean vs run
χ² / ndf 29.23 / 46
p0 −624 ± 1361
pull
Entries 47
Mean 196.4
Std Dev 165.8

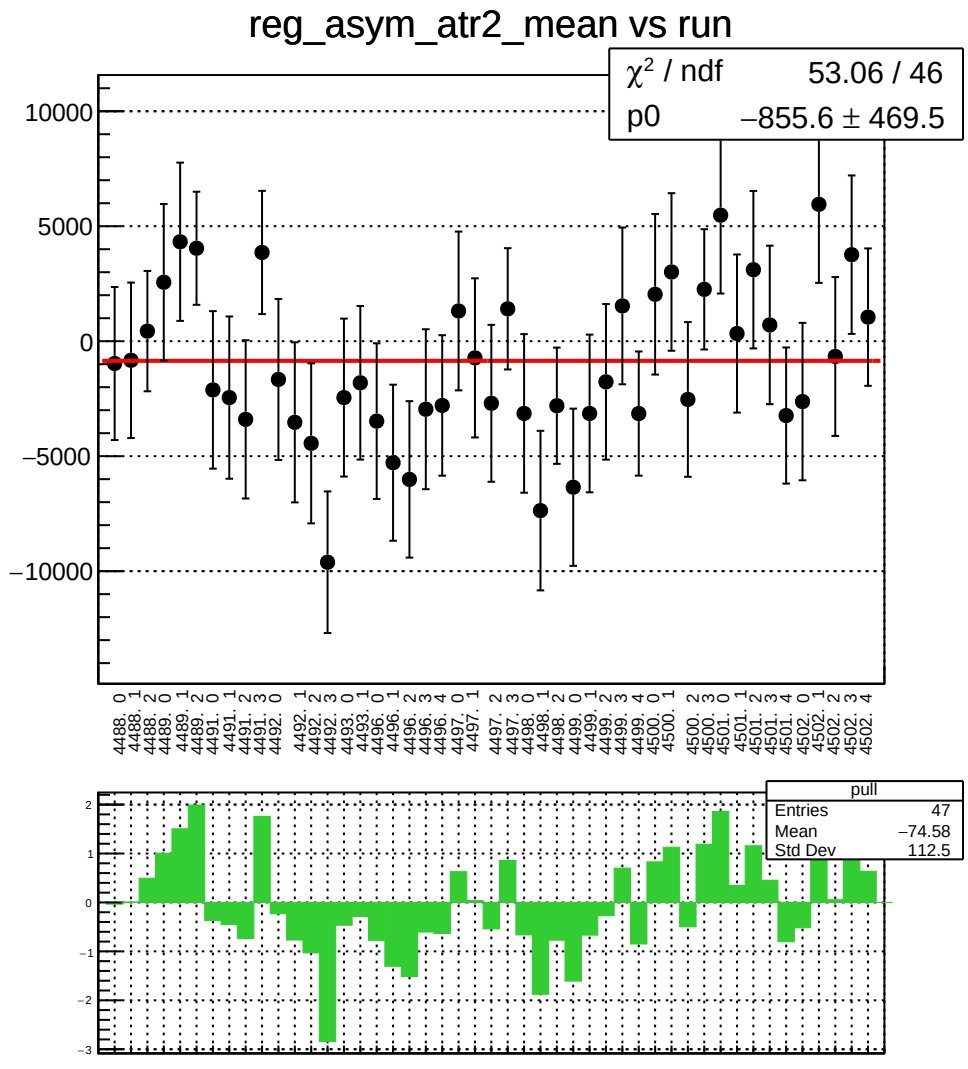

pull1D
Entries 47
Mean −0.01059
Std Dev 0.7886

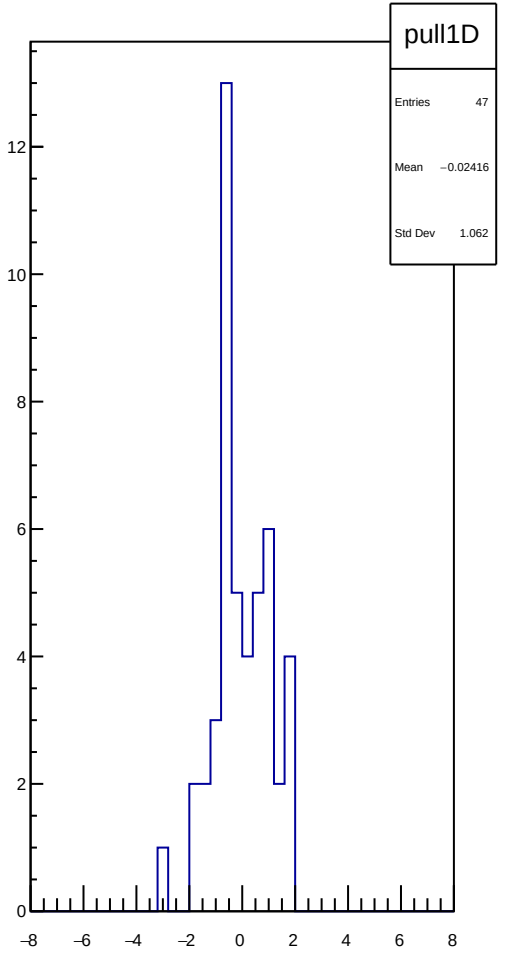

asym_atr1_correction_rms vs run
χ² / ndf 4464 / 46
p0 943.5 ± 0.9626
1200
1150
1100
1050
1000
950
900
850
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

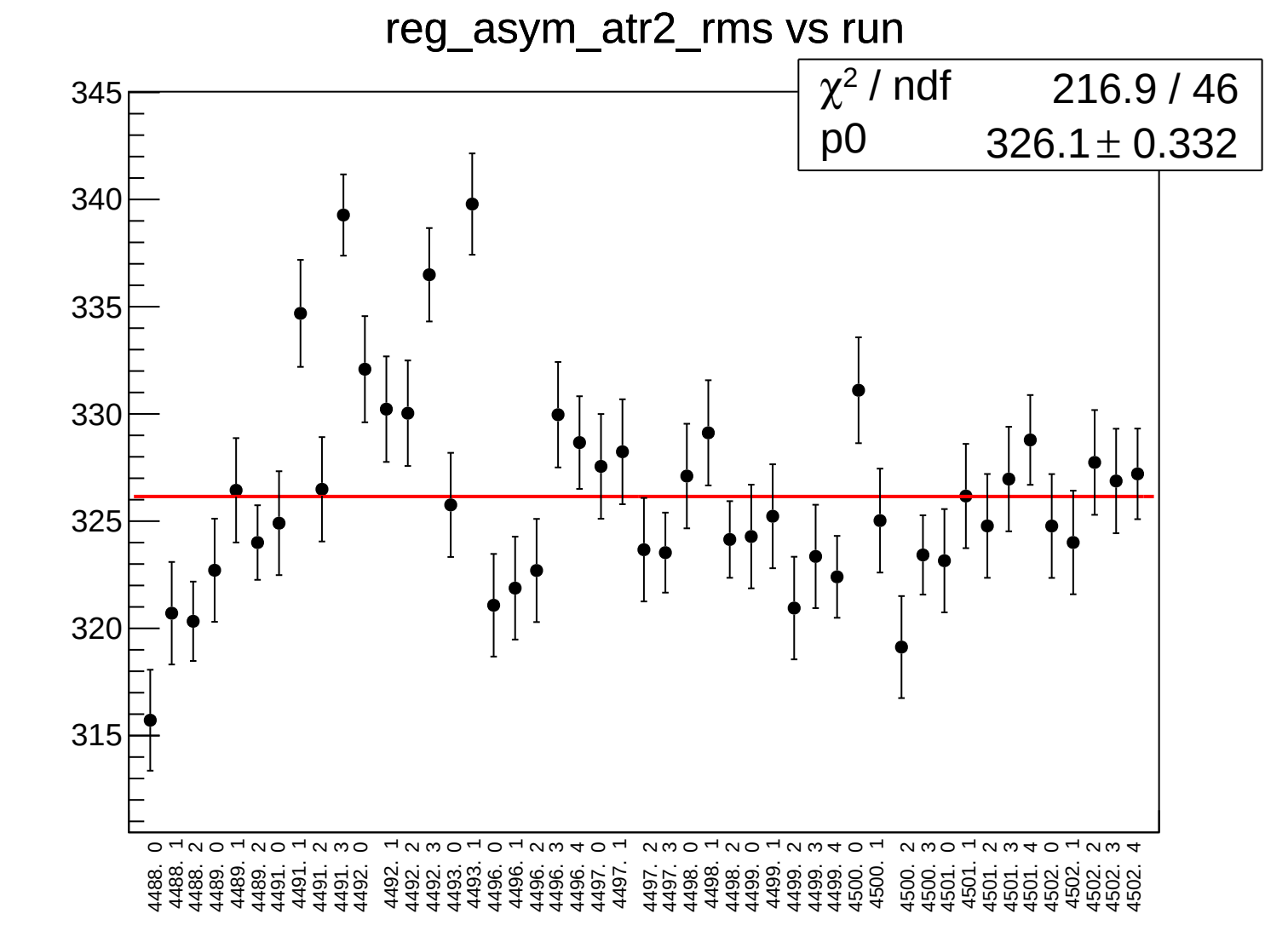

asym_atr1_mean vs run
χ² / ndf 28.41 / 46
p0 215.5 ± 1508
30000
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 525.1
Std Dev 496.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

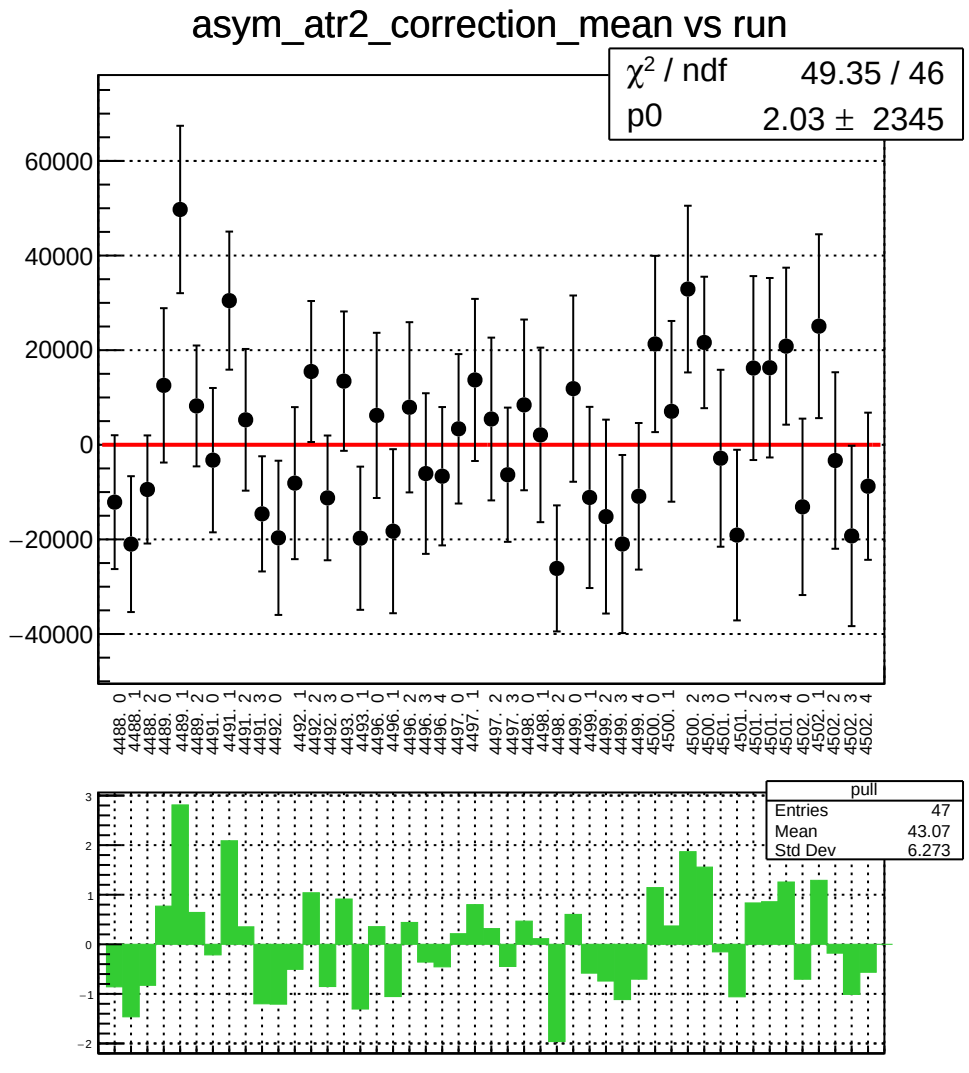

pull1D
Entries 47
Mean 0.004074
Std Dev 0.7775
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

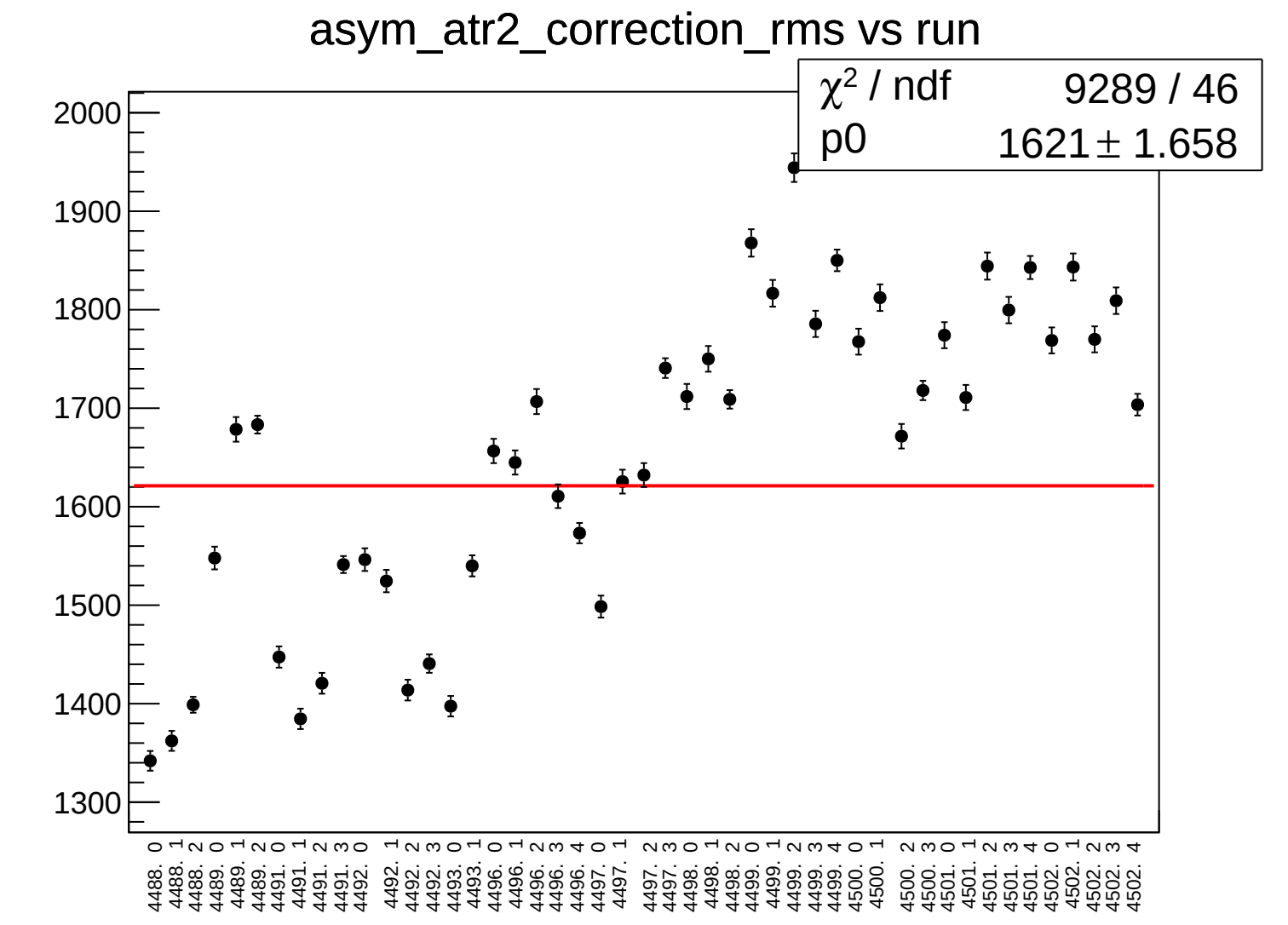

asym_atr1_rms vs run
χ^2 / ndf 2970 / 46
p0 1046 ± 1.067
1250
1200
1150
1100
1050
1000
950
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

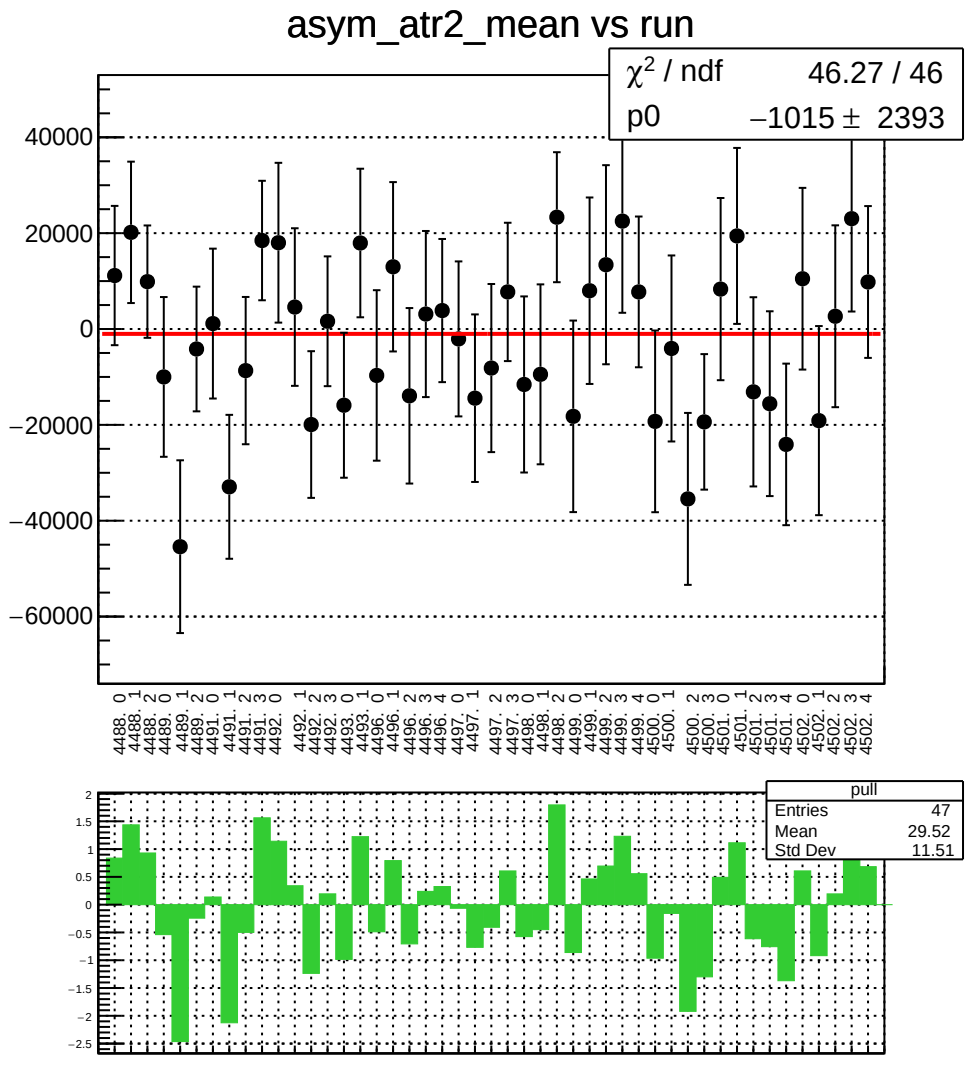

reg_asym_atr2_mean vs run
χ² / ndf 53.06 / 46
p0 −855.6 ± 469.5
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −74.58
Std Dev 112.5
2
1
0
−1
−2
−3

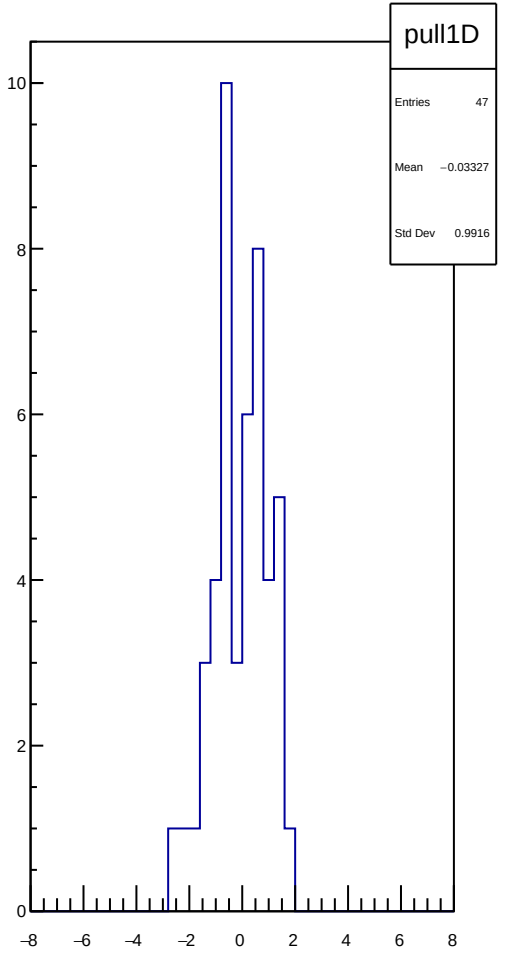

pull1D
Entries 47
Mean −0.02416
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

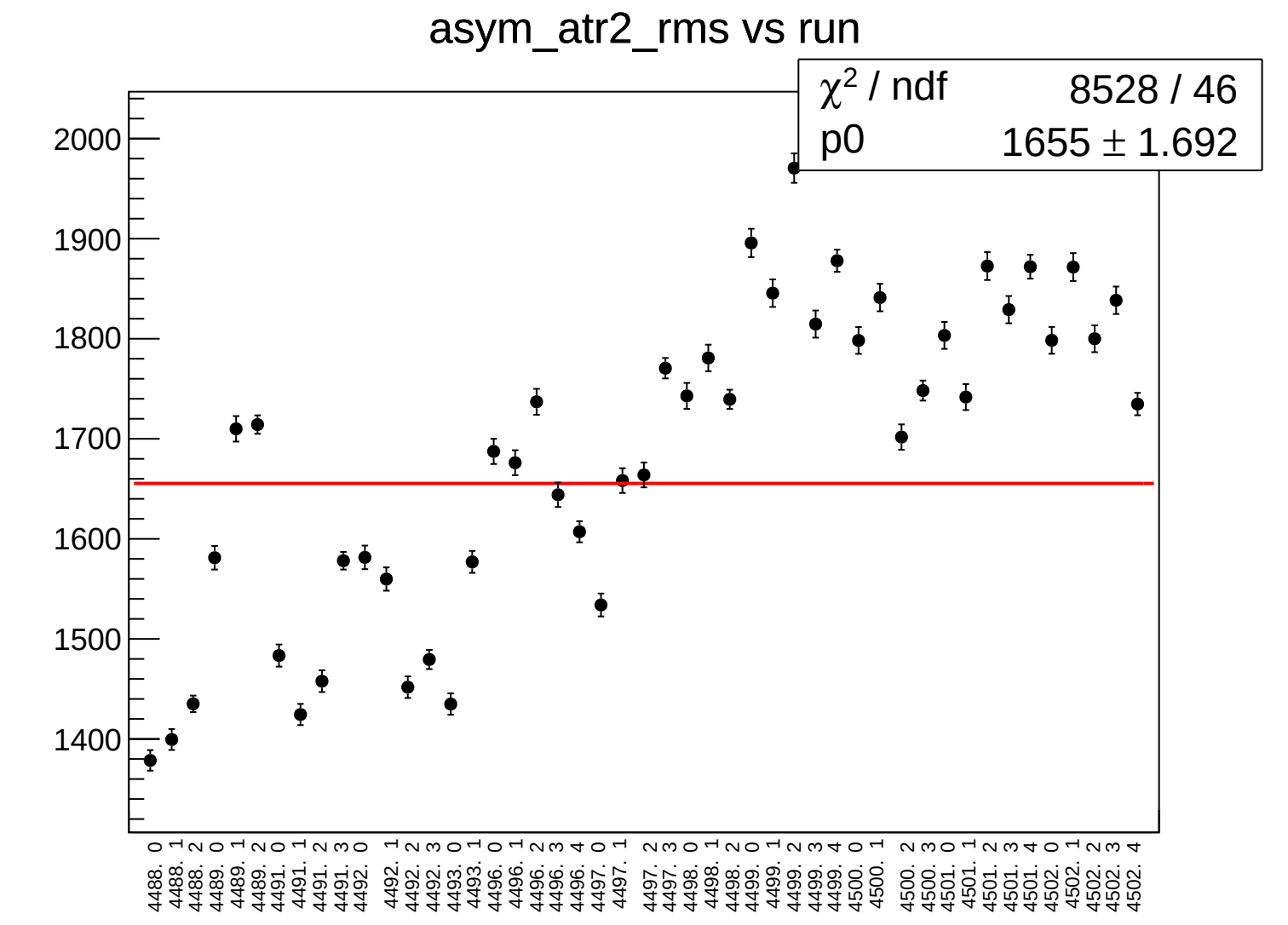

reg_asym_atr2_rms vs run
χ² / ndf 216.9 / 46
p0 326.1 ± 0.332
345
340
335
330
325
320
315
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

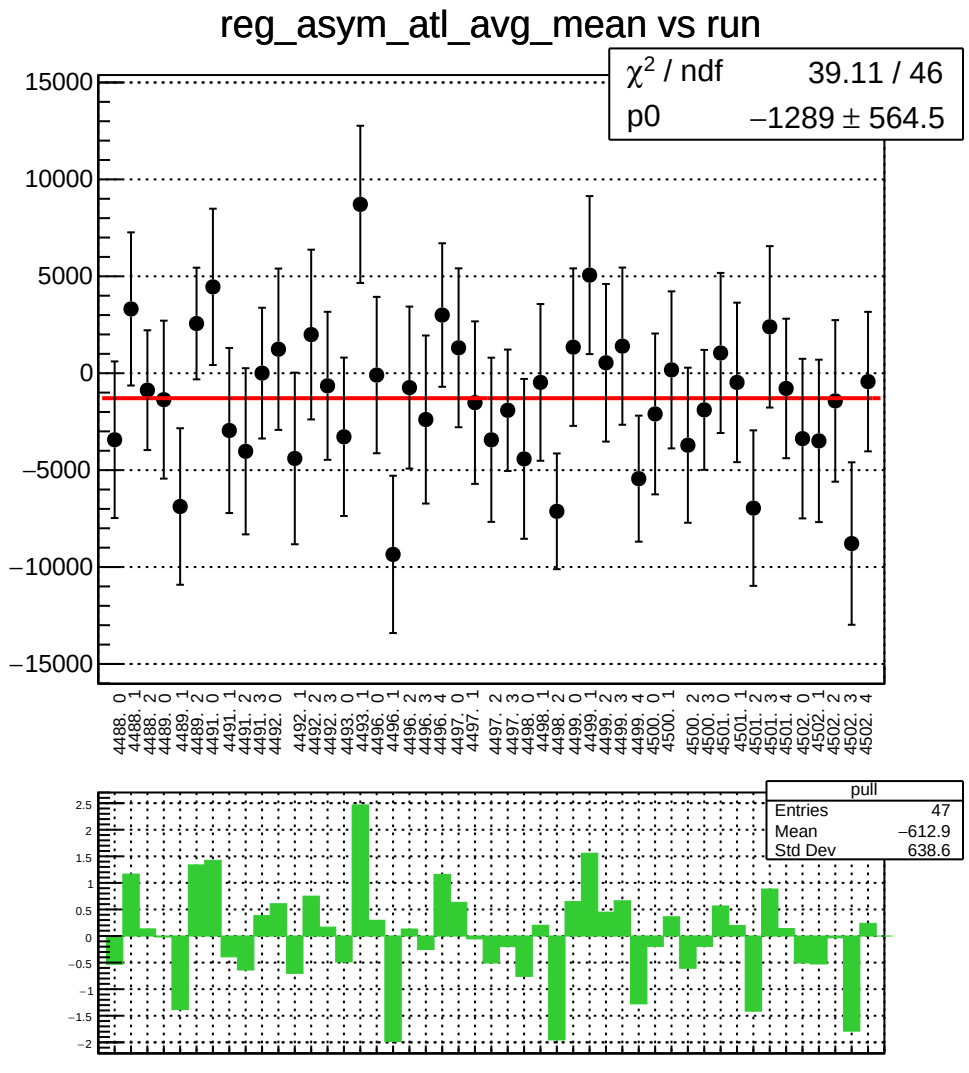

asym_atr2_correction_mean vs run
χ² / ndf 49.35 / 46
p0 2.03 ± 2345
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 43.07
Std Dev 6.273
3
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.03386
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

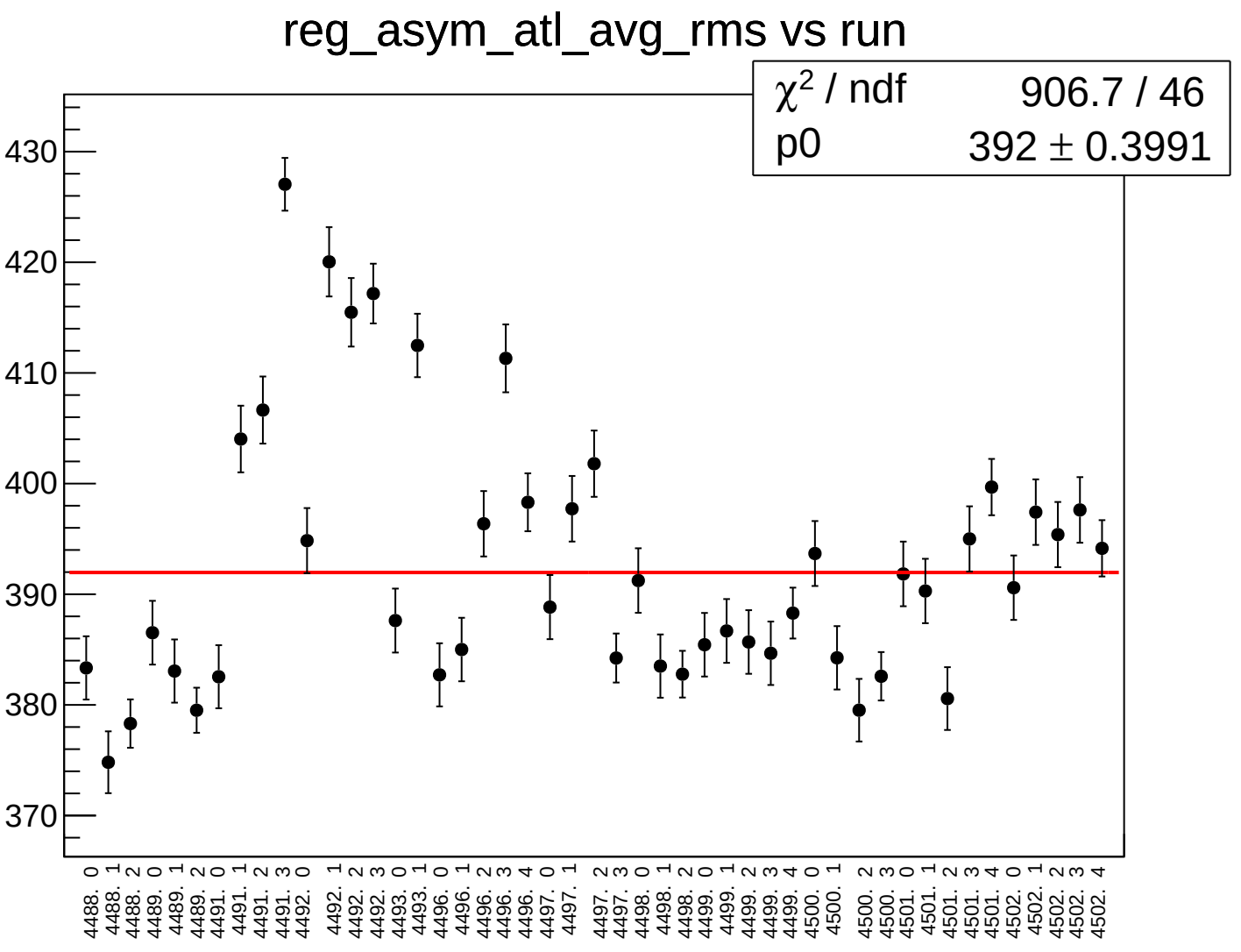

asym_atr2_correction_rms vs run
χ² / ndf 9289 / 46
p0 1621 ± 1.658
2000
1900
1800
1700
1600
1500
1400
1300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

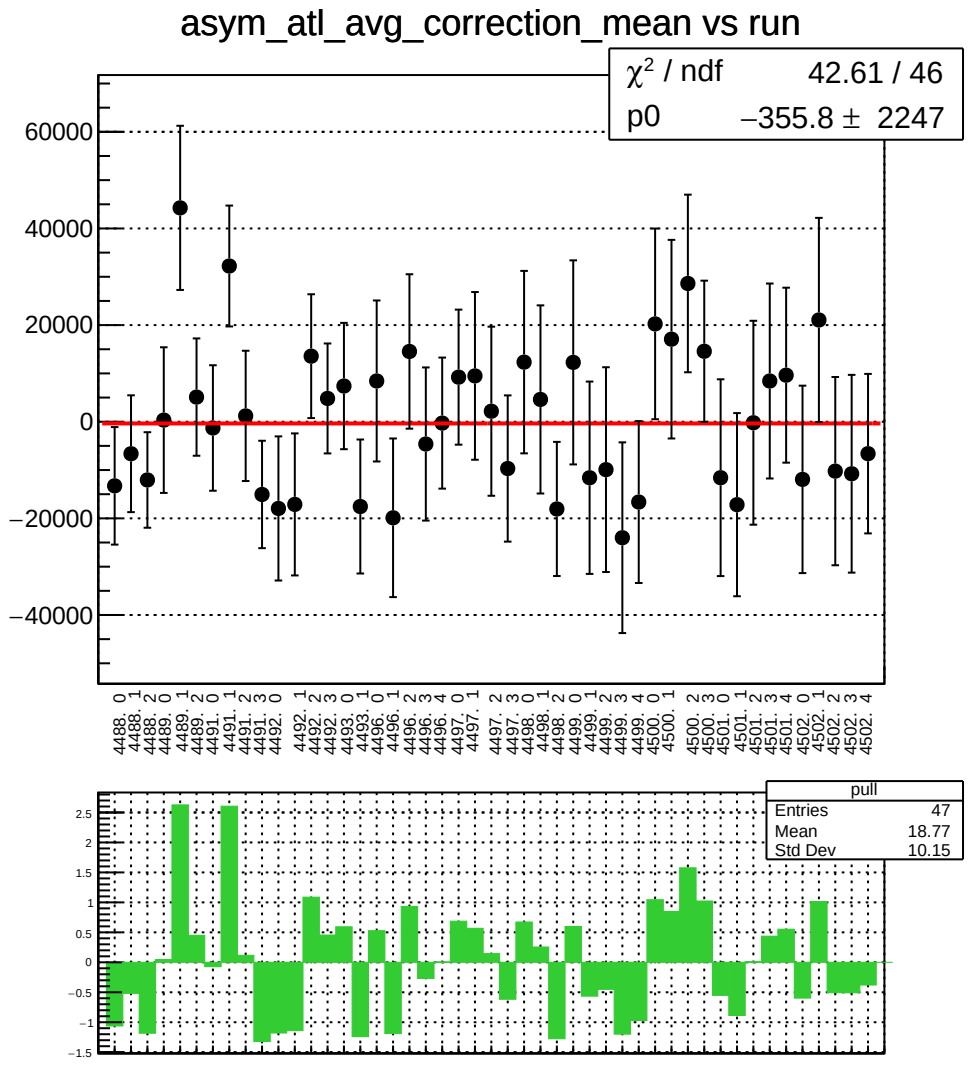

asym_atr2_mean vs run
χ² / ndf 46.27 / 46
p0 −1015 ± 2393
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 29.52
Std Dev 11.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

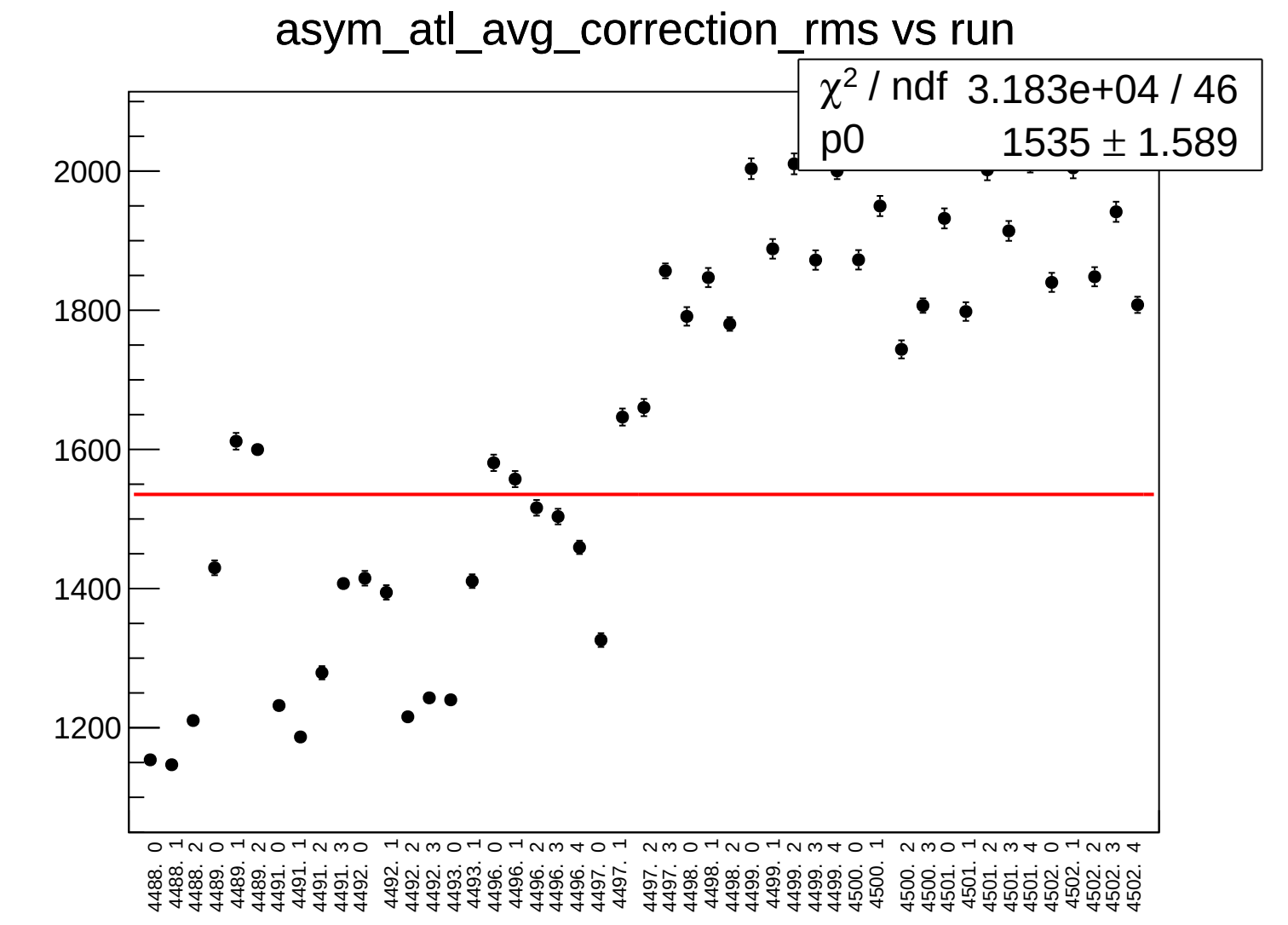

pull1D
Entries 47
Mean −0.03327
Std Dev 0.9916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

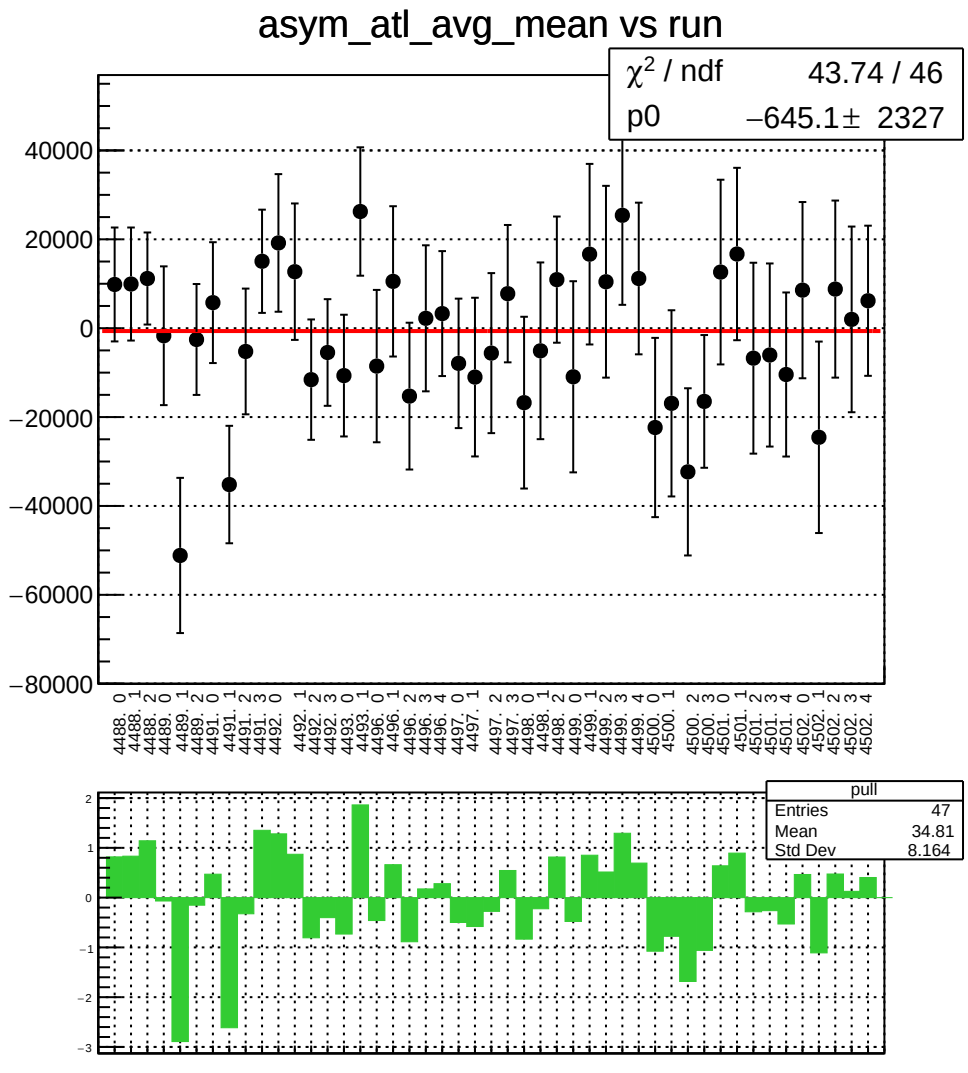

asym_atr2_rms vs run
χ² / ndf 8528 / 46
p0 1655 ± 1.692
2000
1900
1800
1700
1600
1500
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

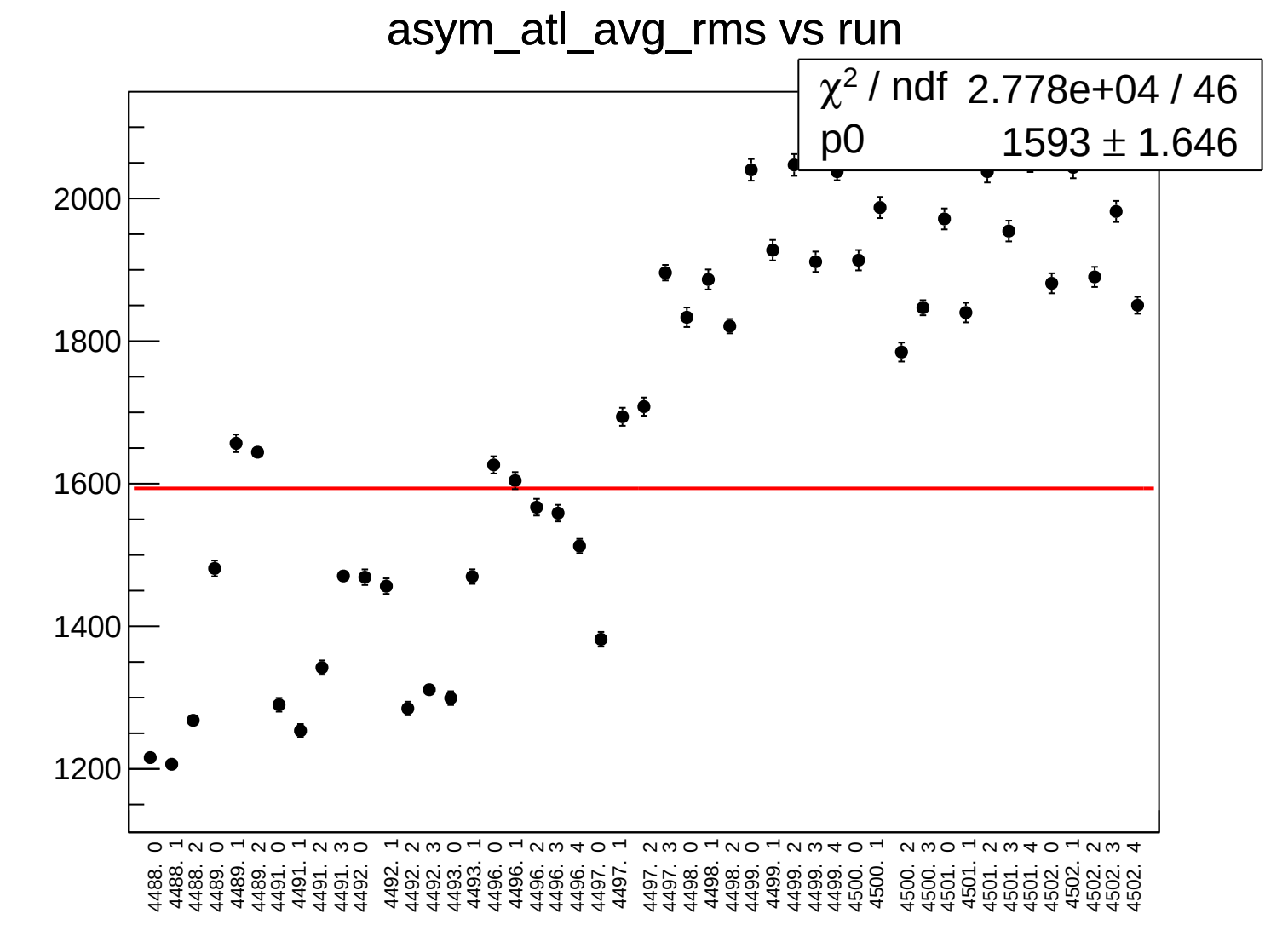

reg_asym_atl_avg_mean vs run
χ^2 / ndf 39.11 / 46
p0 −1289 ± 564.5
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −612.9
Std Dev 638.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean 0.003434
Std Dev 0.9122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

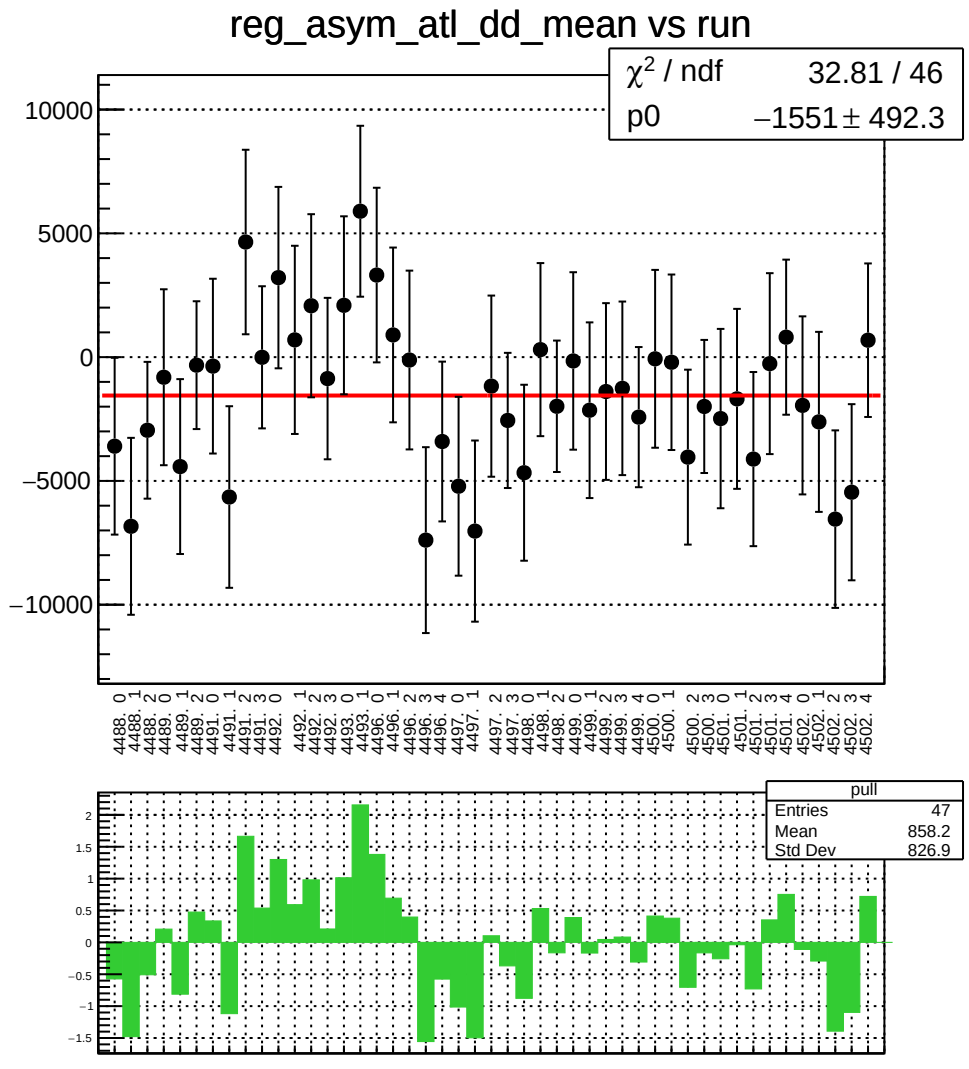

reg_asym_atl_avg_rms vs run
χ^2 / ndf 906.7 / 46
p0 392 ± 0.3991
430
420
410
400
390
380
370
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

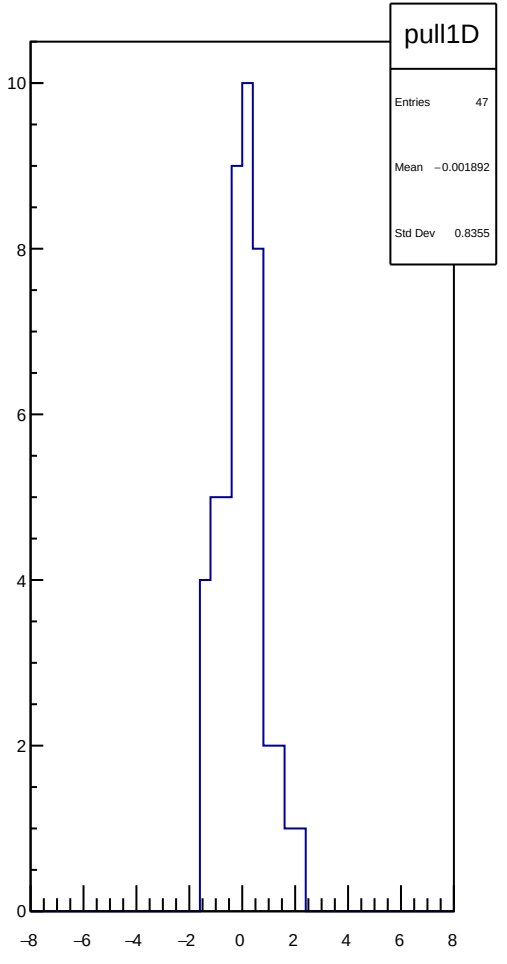

asym_atl_avg_correction_mean vs run
χ² / ndf 42.61 / 46
p0 −355.8 ± 2247
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 18.77
Std Dev 10.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.02515
Std Dev 0.9518
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

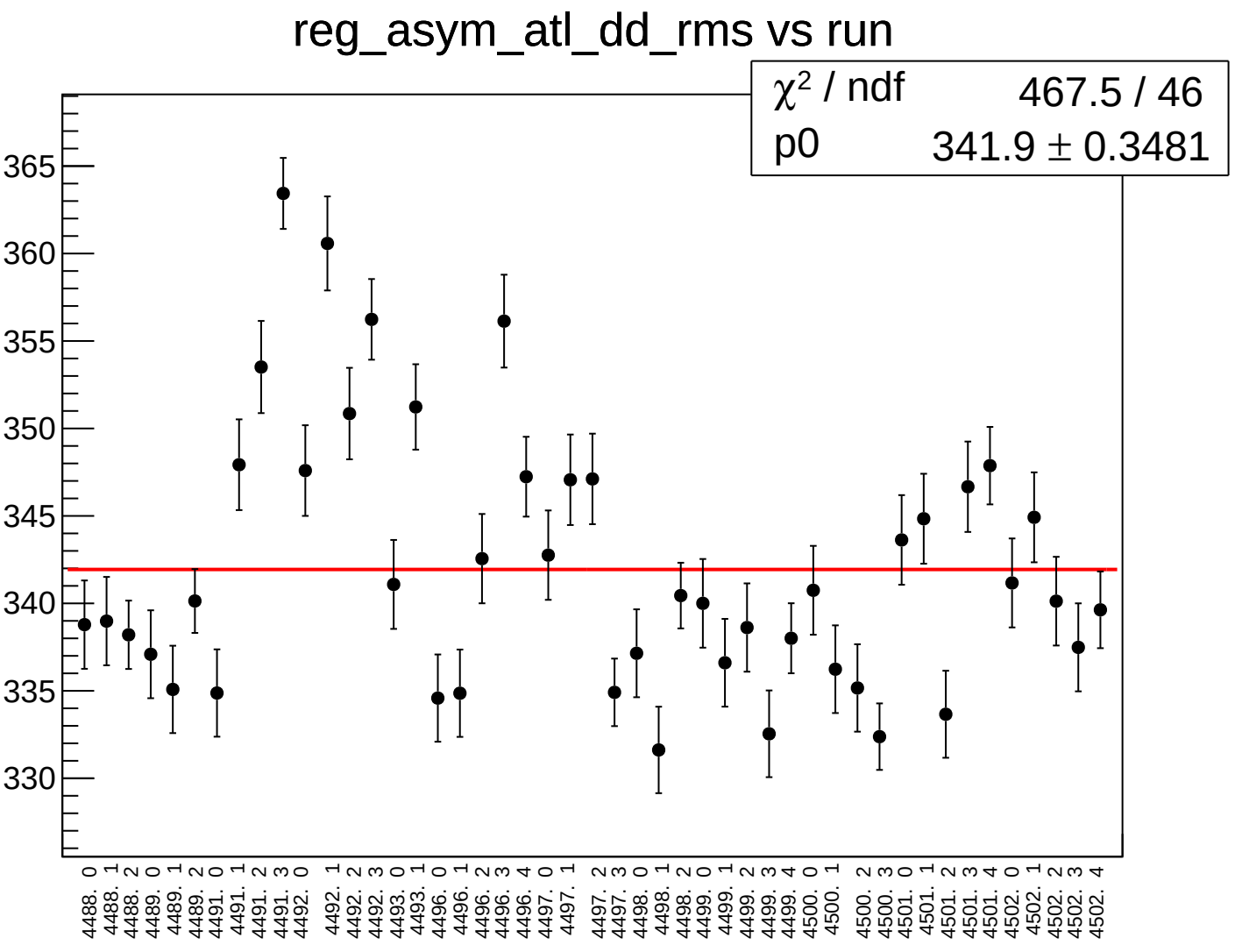

asym_atl_avg_correction_rms vs run
χ² / ndf 3.183e+04 / 46
p0 1535 ± 1.589
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

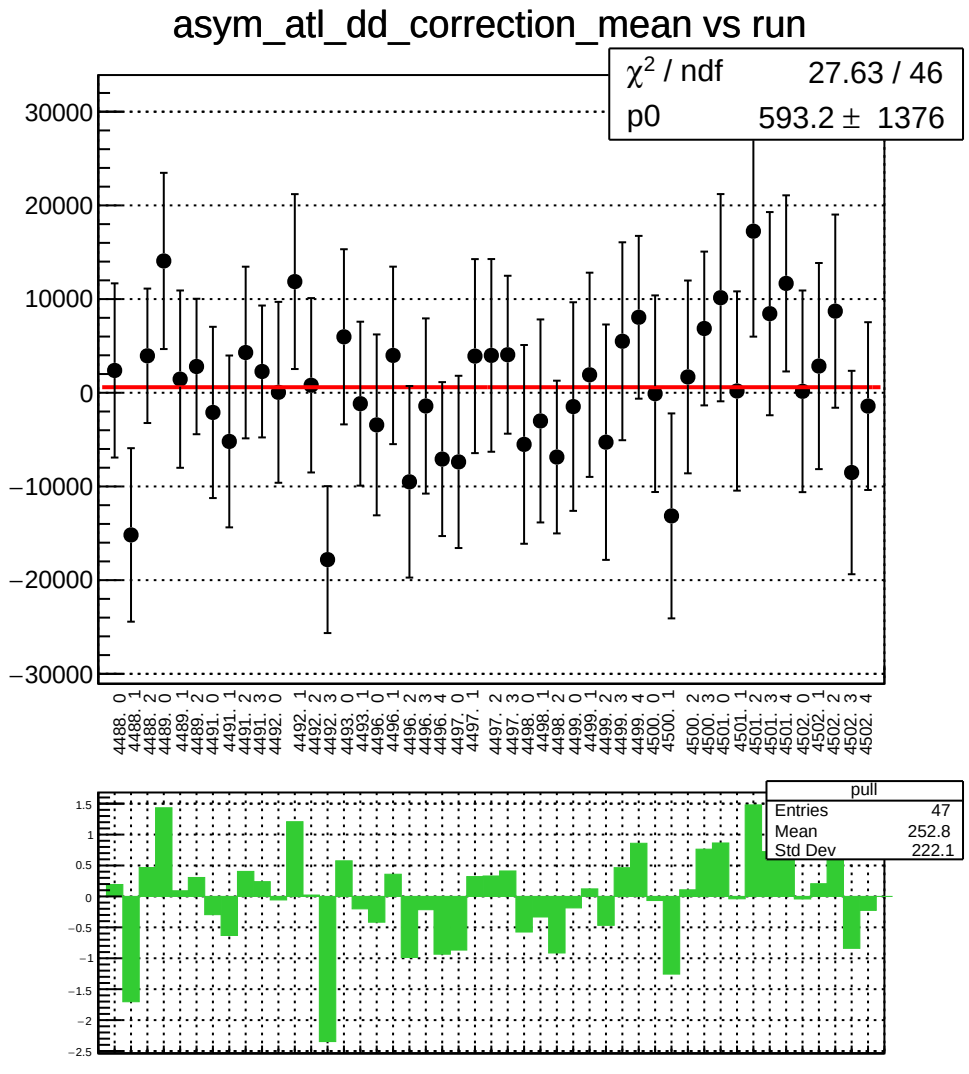

asym_atl_avg_mean vs run
χ² / ndf 43.74 / 46
p0 −645.1± 2327
40000
20000
0
−20000
−40000
−60000
−80000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 34.81
Std Dev 8.164
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean −0.03305
Std Dev 0.9642
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

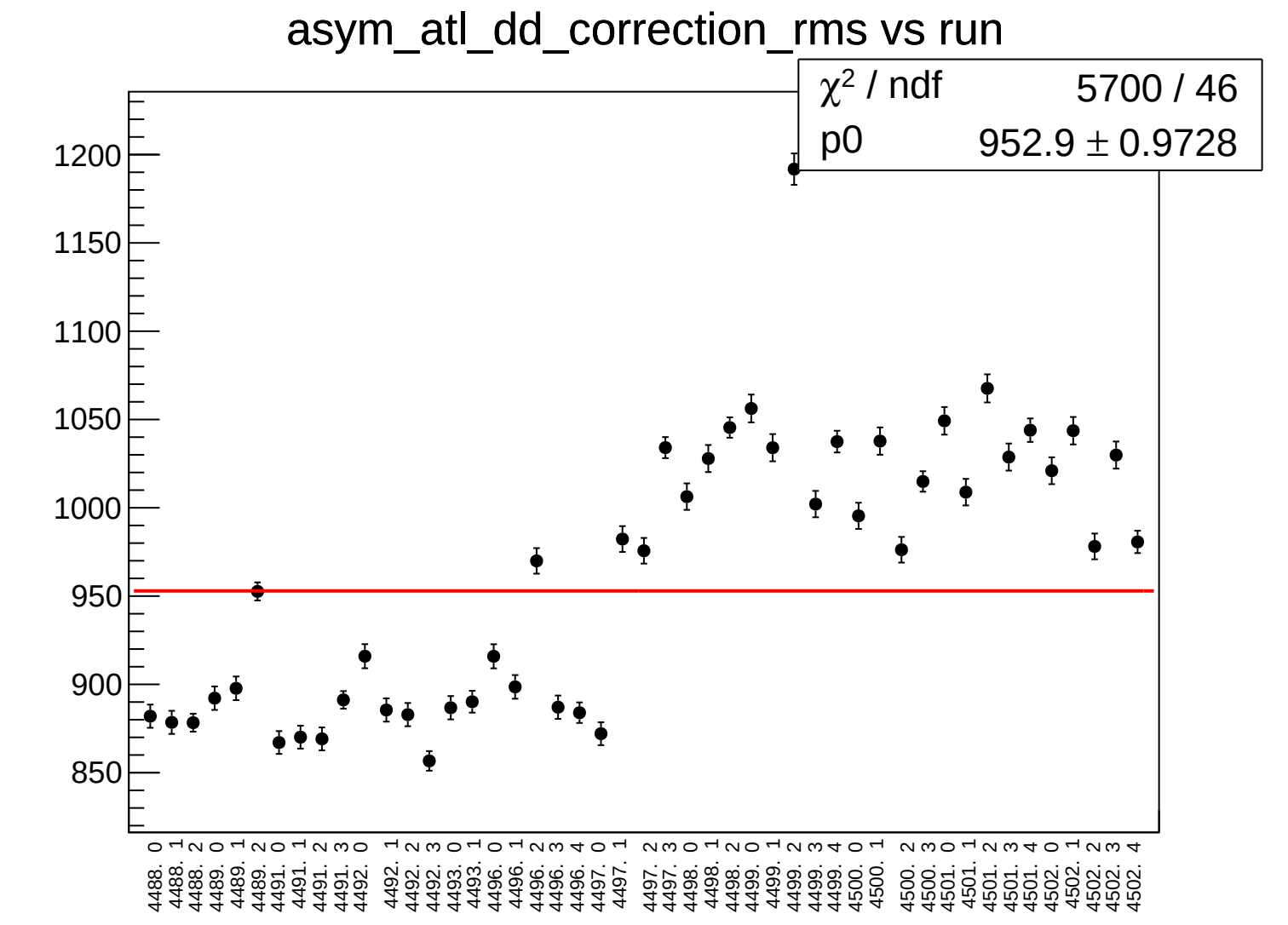

asym_atl_avg_rms vs run
χ^2 / ndf 2.778e+04 / 46
p0 1593 ± 1.646
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

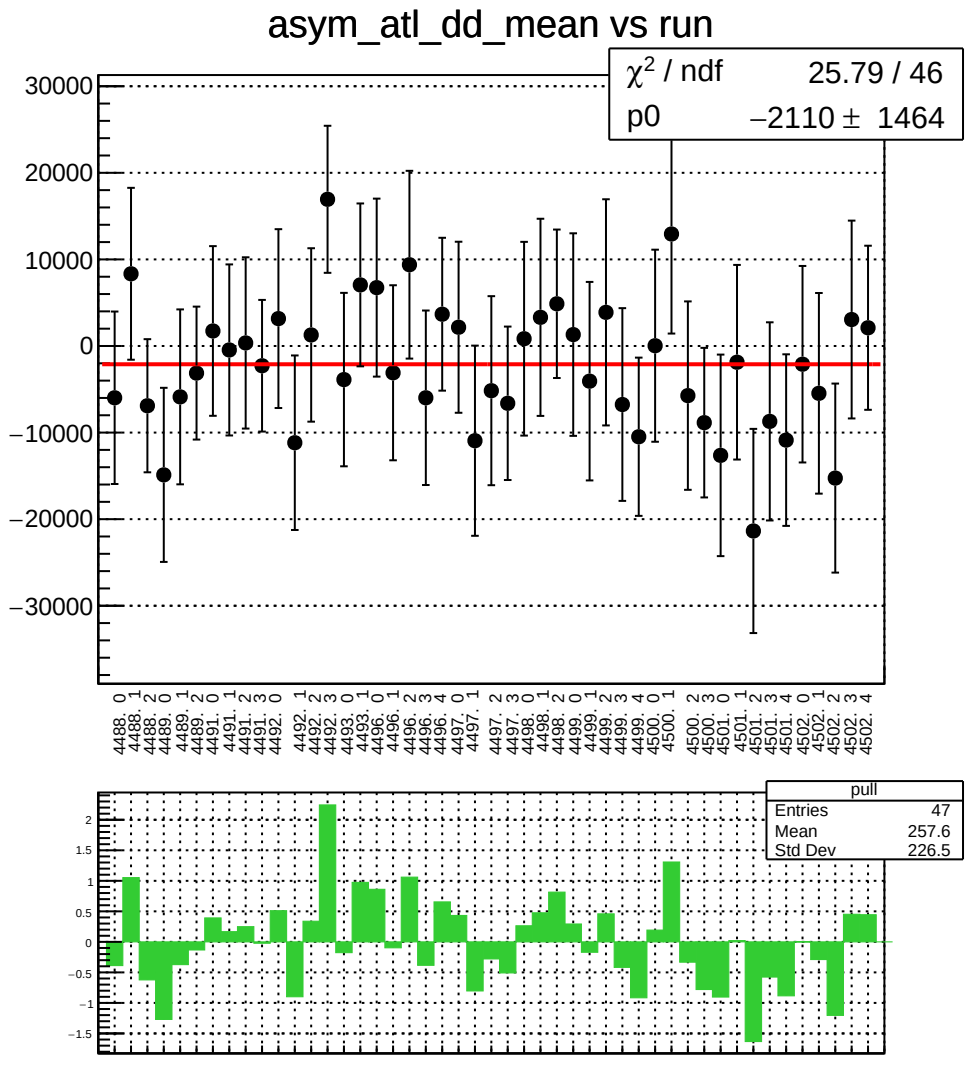

reg_asym_atl_dd_mean vs run
χ^2 / ndf 32.81 / 46
p0 −1551 ± 492.3
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 858.2
Std Dev 826.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

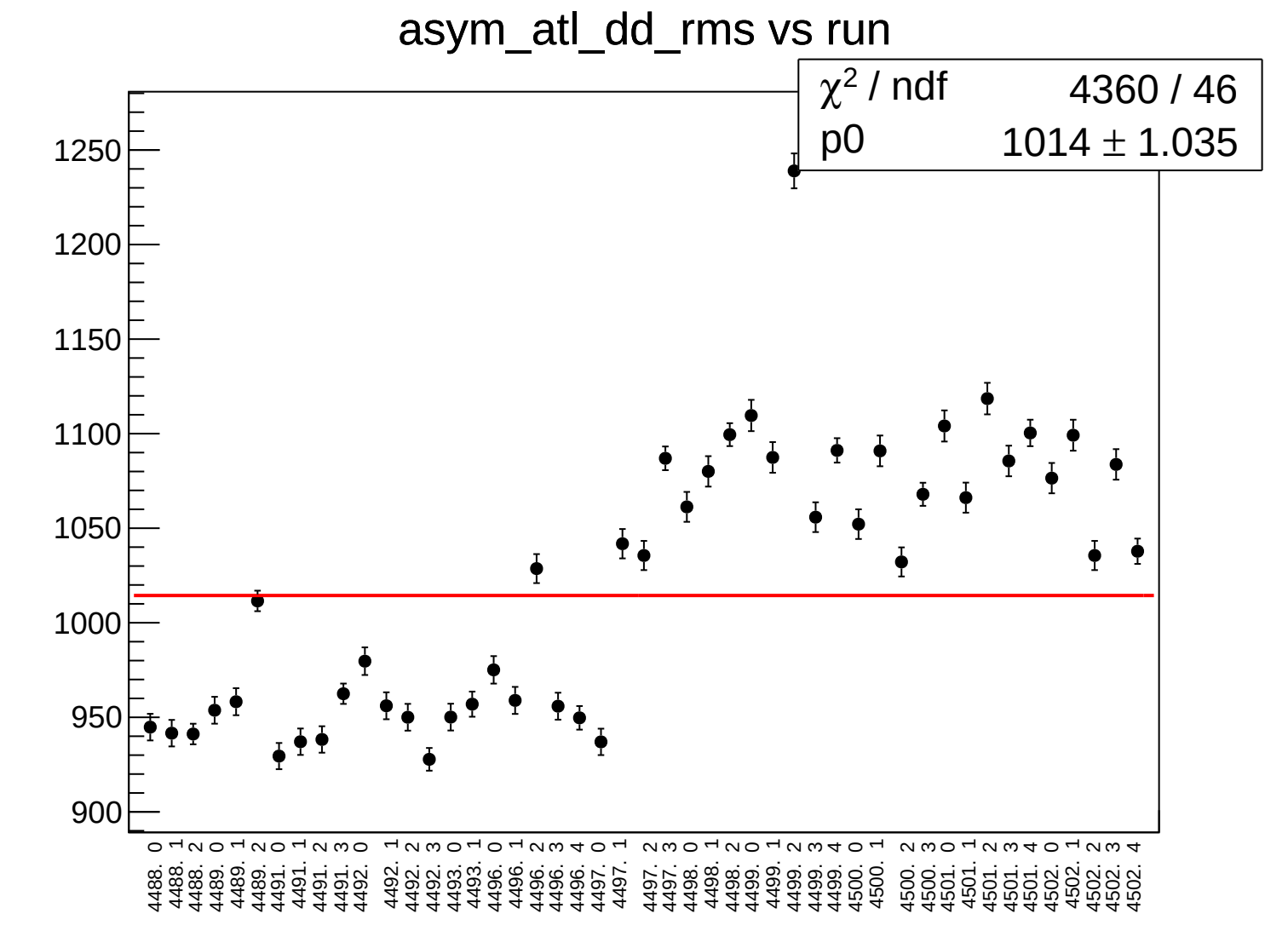

pull1D
Entries 47
Mean −0.001892
Std Dev 0.8355
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

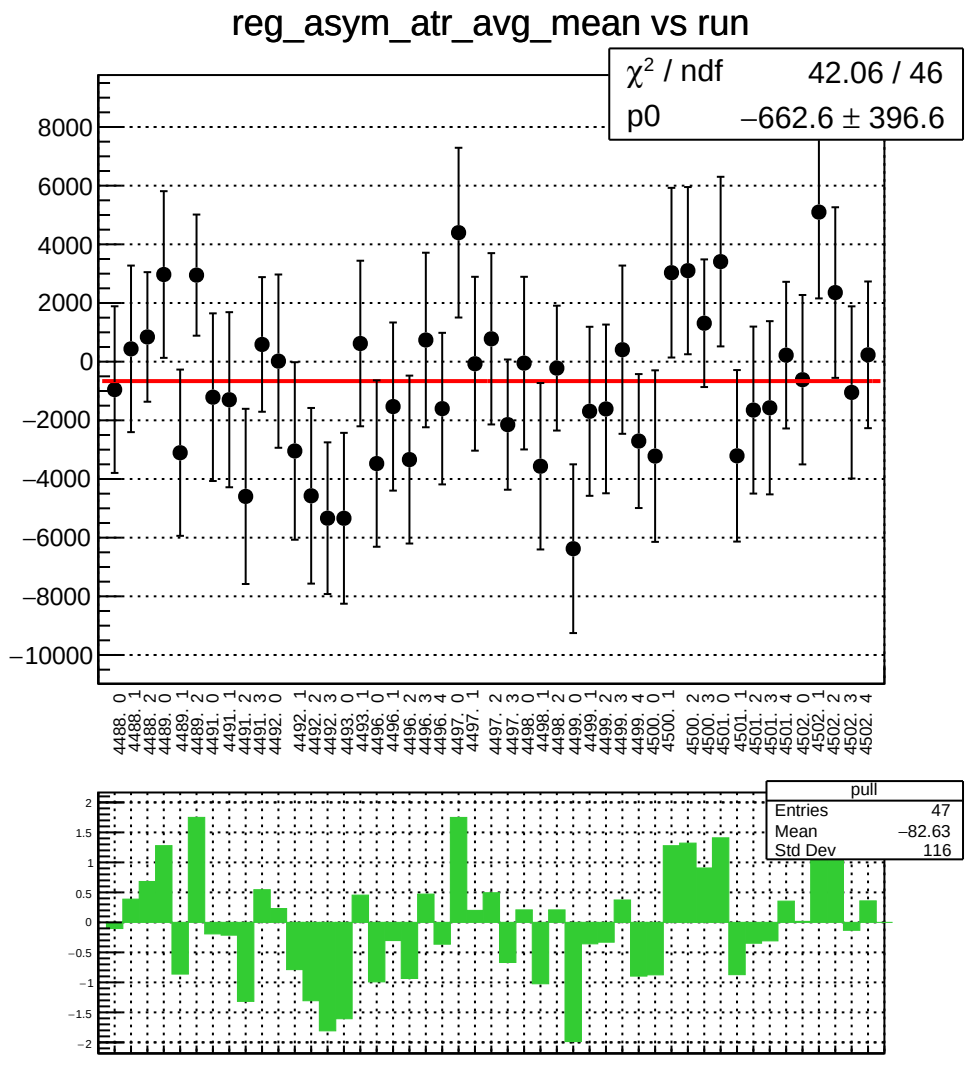

reg_asym_atl_dd_rms vs run
χ² / ndf 467.5 / 46
p0 341.9 ± 0.3481
365
360
355
350
345
340
335
330
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

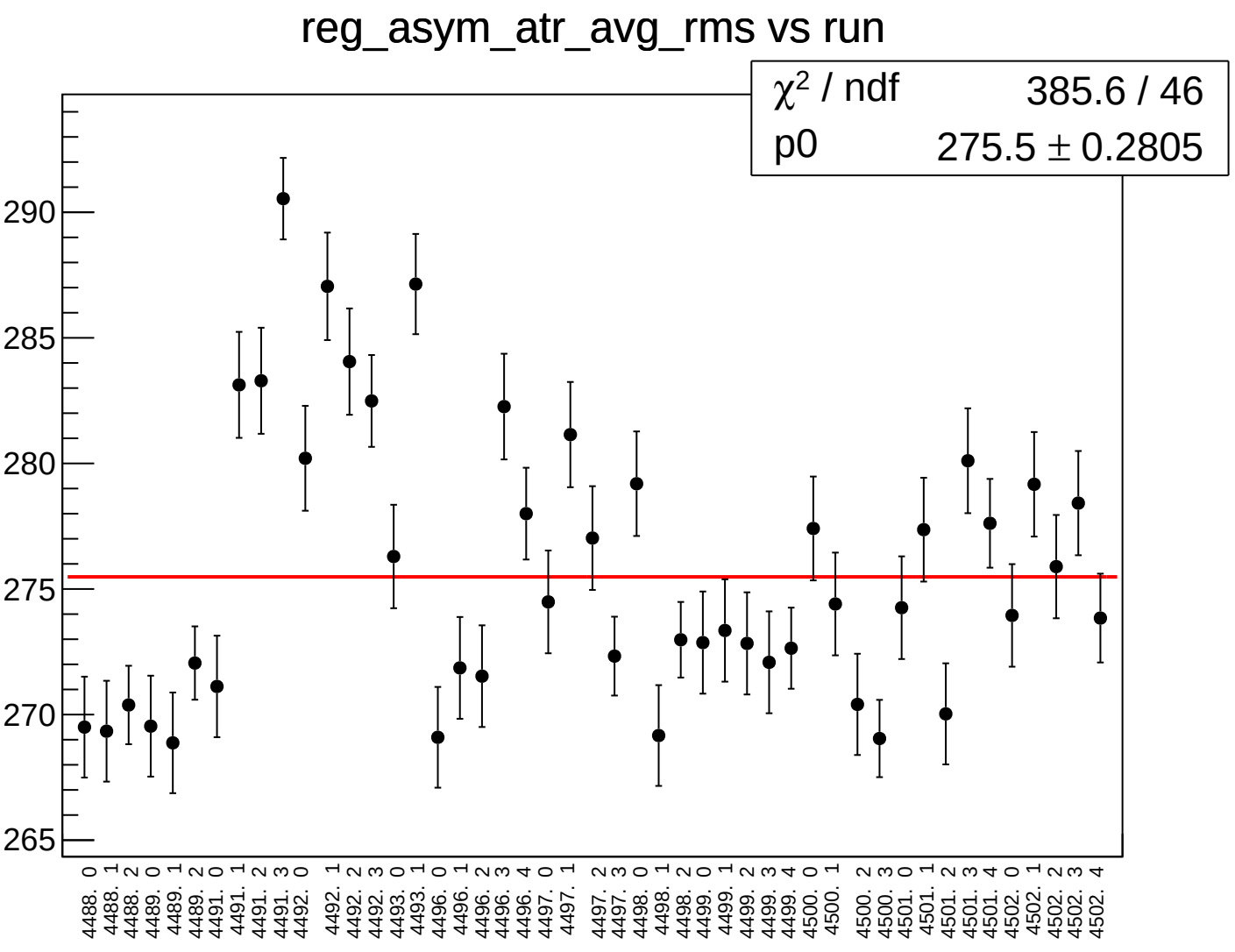

asym_atl_dd_correction_mean vs run
χ² / ndf 27.63 / 46
p0 593.2 ± 1376
30000
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 252.8
Std Dev 222.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean 0.006863
Std Dev 0.7667
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

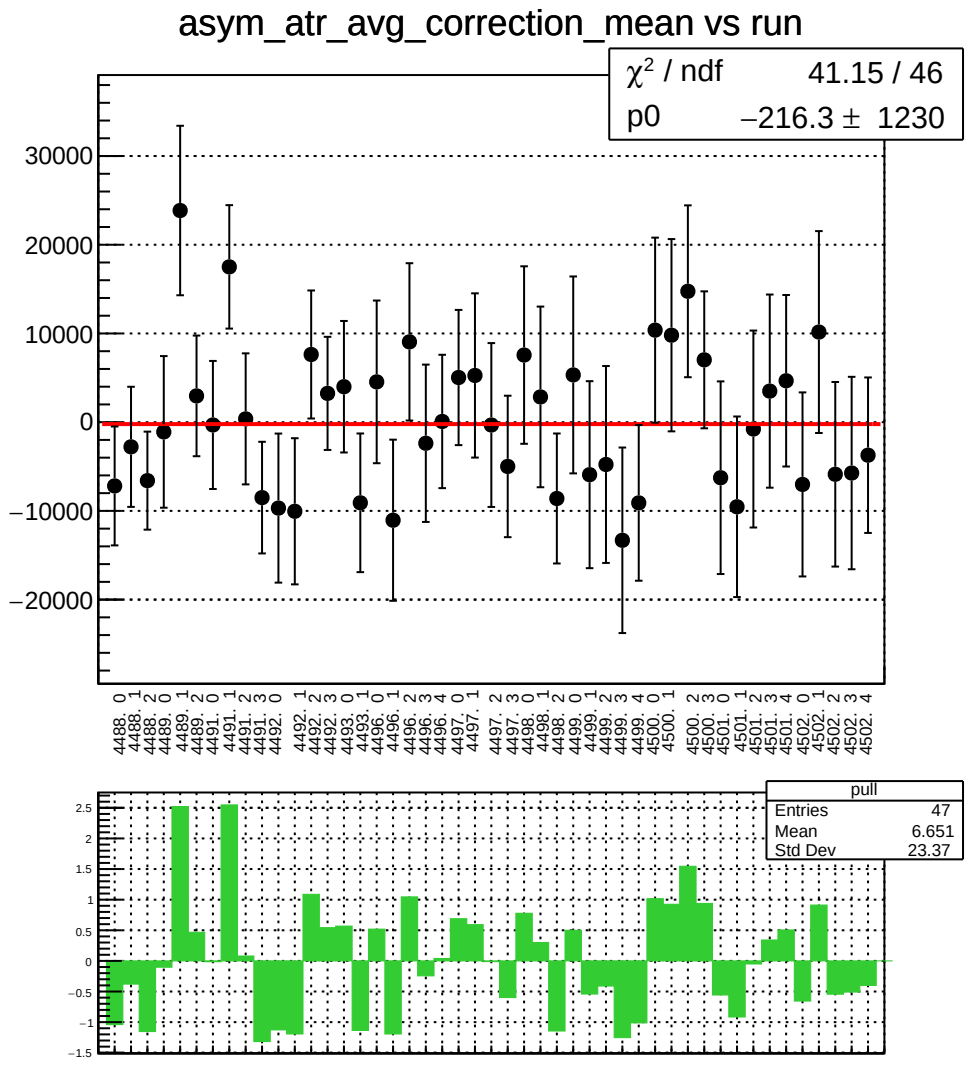

asym_atl_dd_correction_rms vs run
χ² / ndf 5700 / 46
p0 952.9 ± 0.9728
1200
1150
1100
1050
1000
950
900
850
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

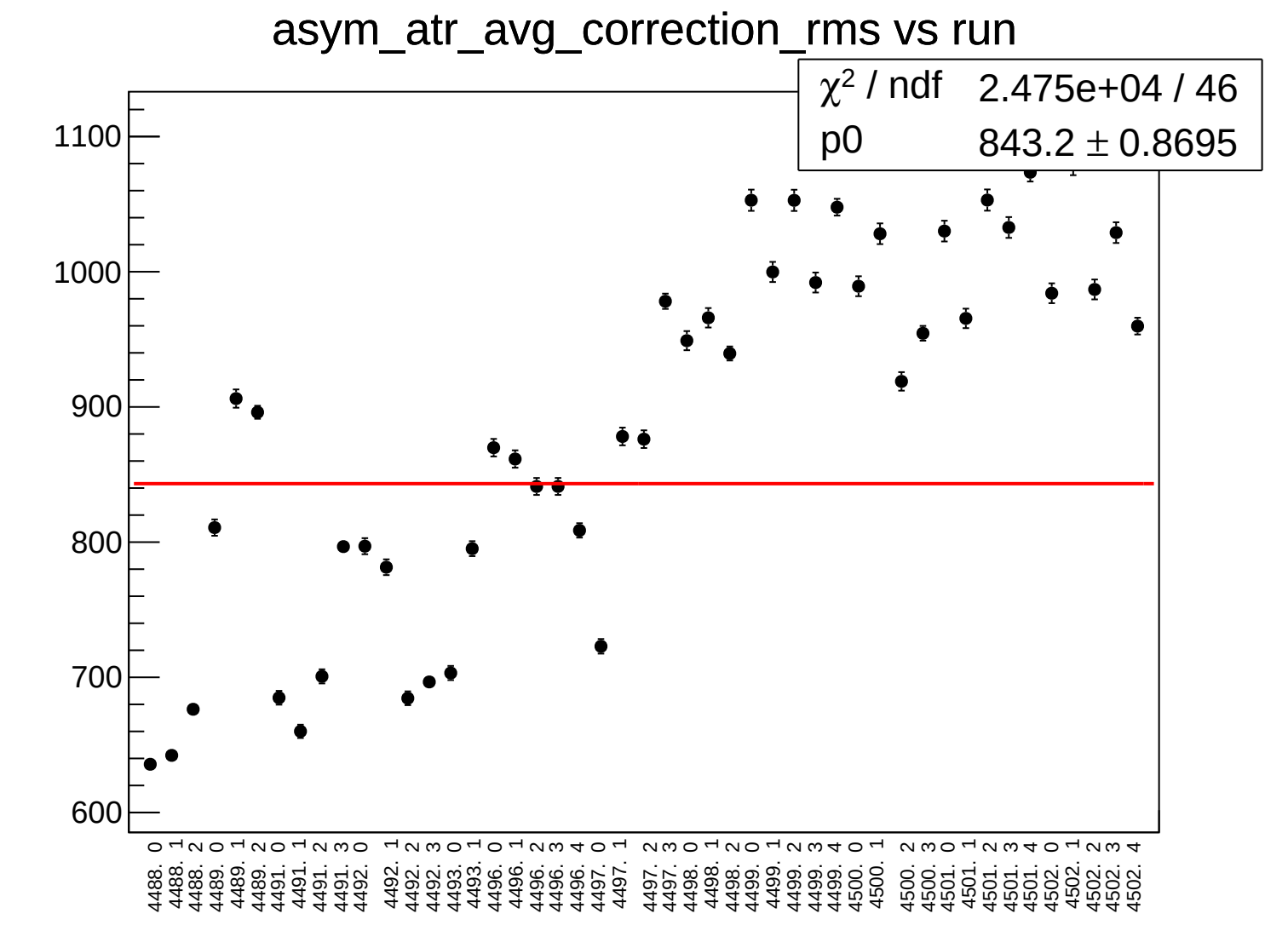

asym_atl_dd_mean vs run
χ² / ndf 25.79 / 46
p0 −2110 ± 1464
30000
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 257.6
Std Dev 226.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.008597
Std Dev 0.7407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

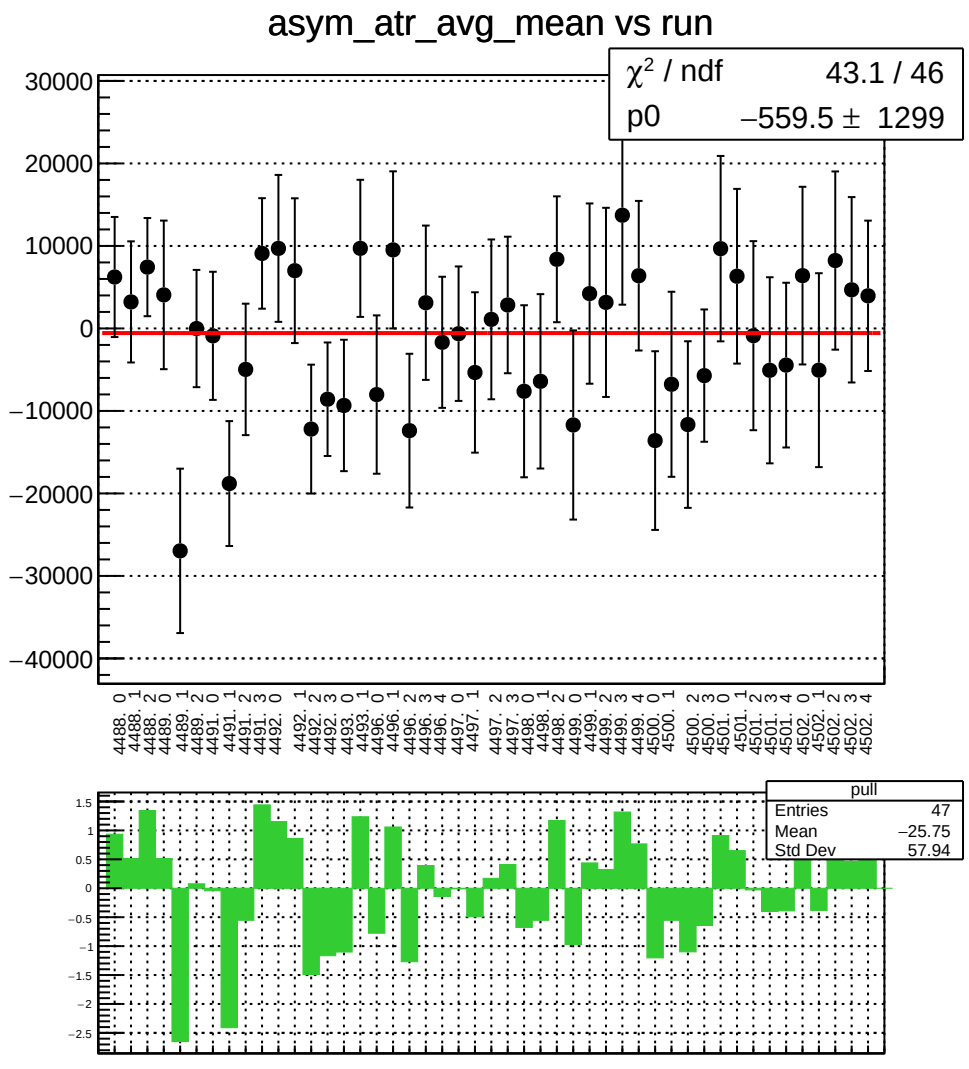

asym_atl_dd_rms vs run
χ² / ndf 4360 / 46
p0 1014 ± 1.035
1250
1200
1150
1100
1050
1000
950
900
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

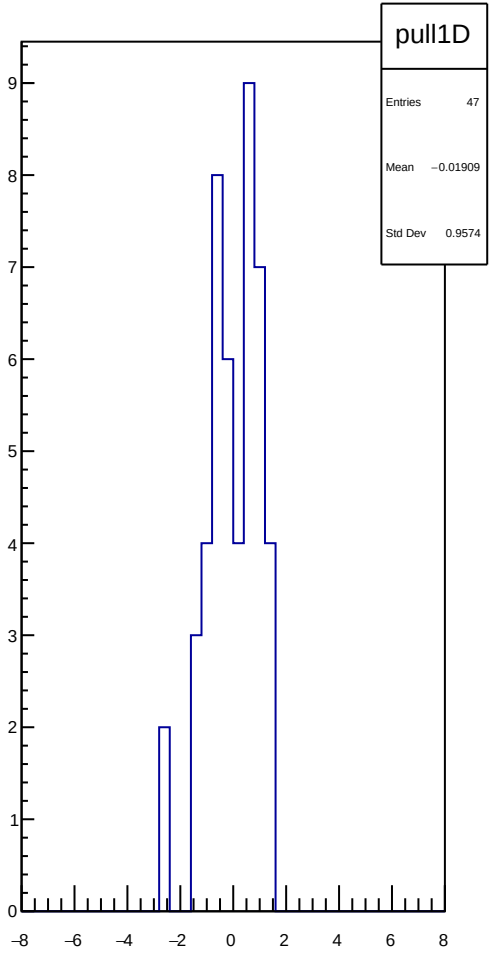

reg_asym_atr_avg_mean vs run
χ² / ndf 42.06 / 46
p0 −662.6 ± 396.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −82.63
Std Dev 116
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.01927
Std Dev 0.9458
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

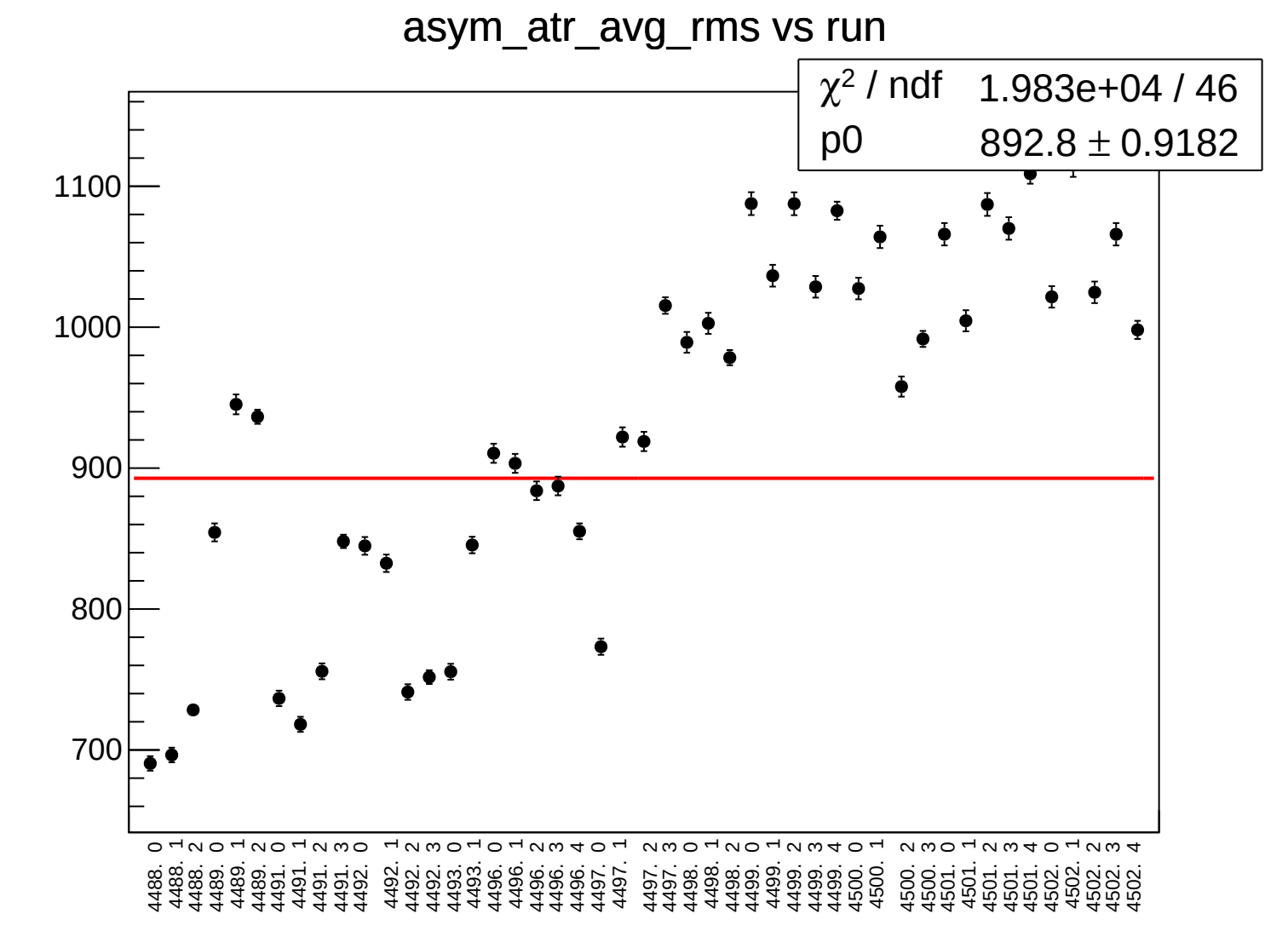

reg_asym_atr_avg_rms vs run
χ² / ndf 385.6 / 46
p0 275.5 ± 0.2805
290
285
280
275
270
265
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

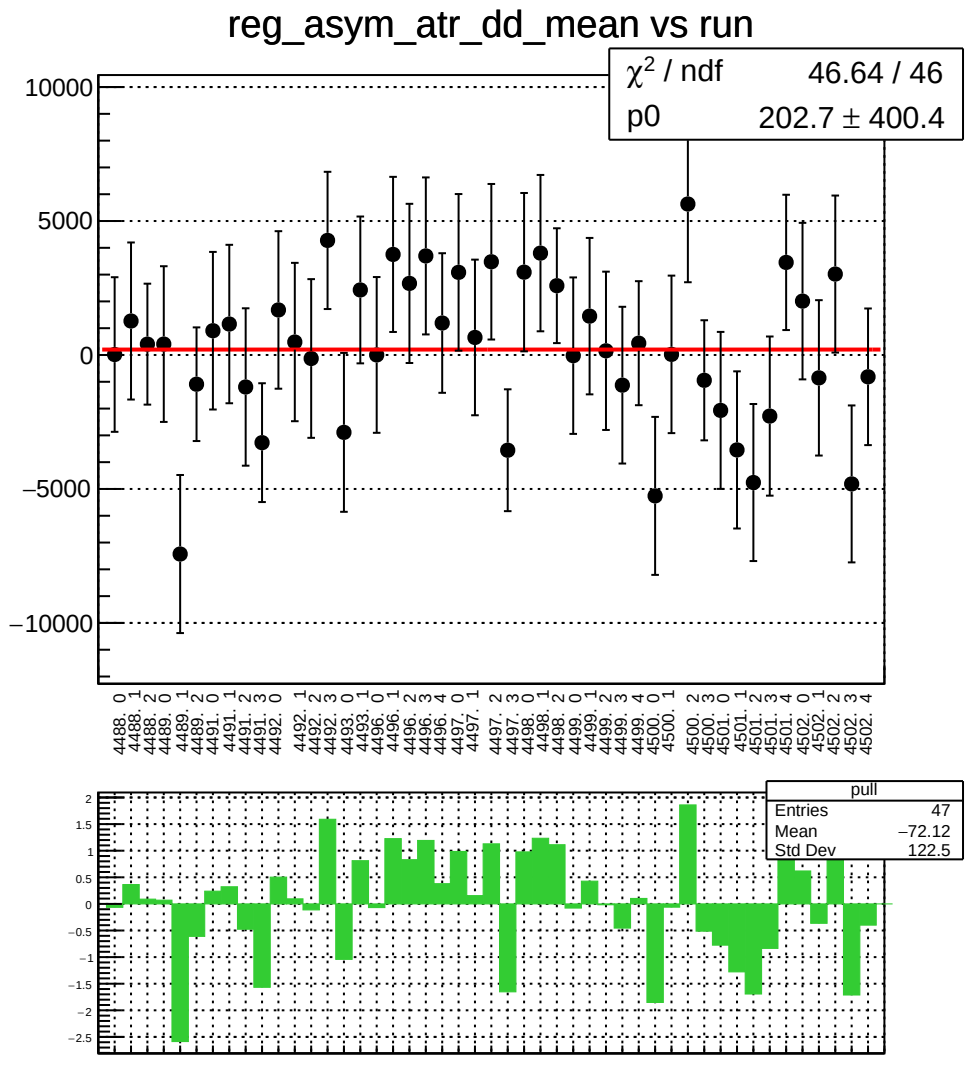

asym_atr_avg_correction_mean vs run
χ² / ndf 41.15 / 46
p0 −216.3 ± 1230
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 6.651
Std Dev 23.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.02042
Std Dev 0.9354
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

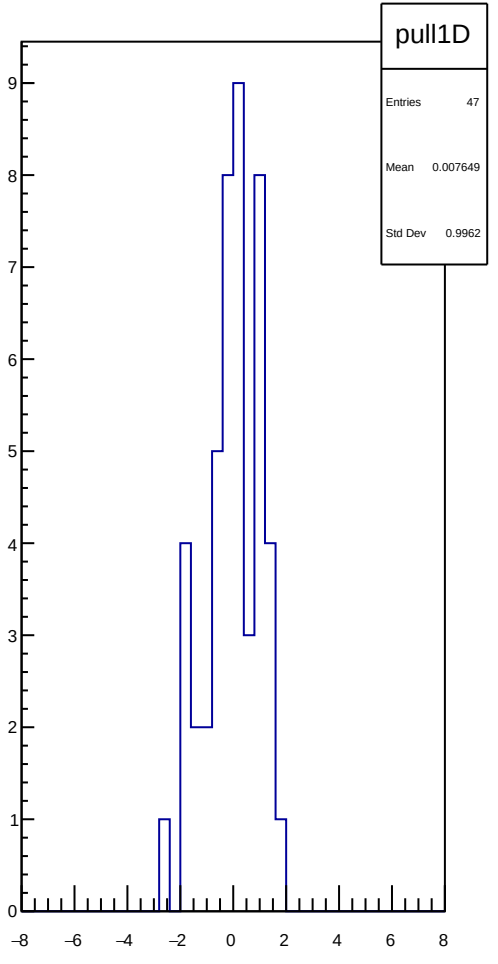

asym_atr_avg_correction_rms vs run
χ² / ndf 2.475e+04 / 46
p0 843.2 ± 0.8695
1100
1000
900
800
700
600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

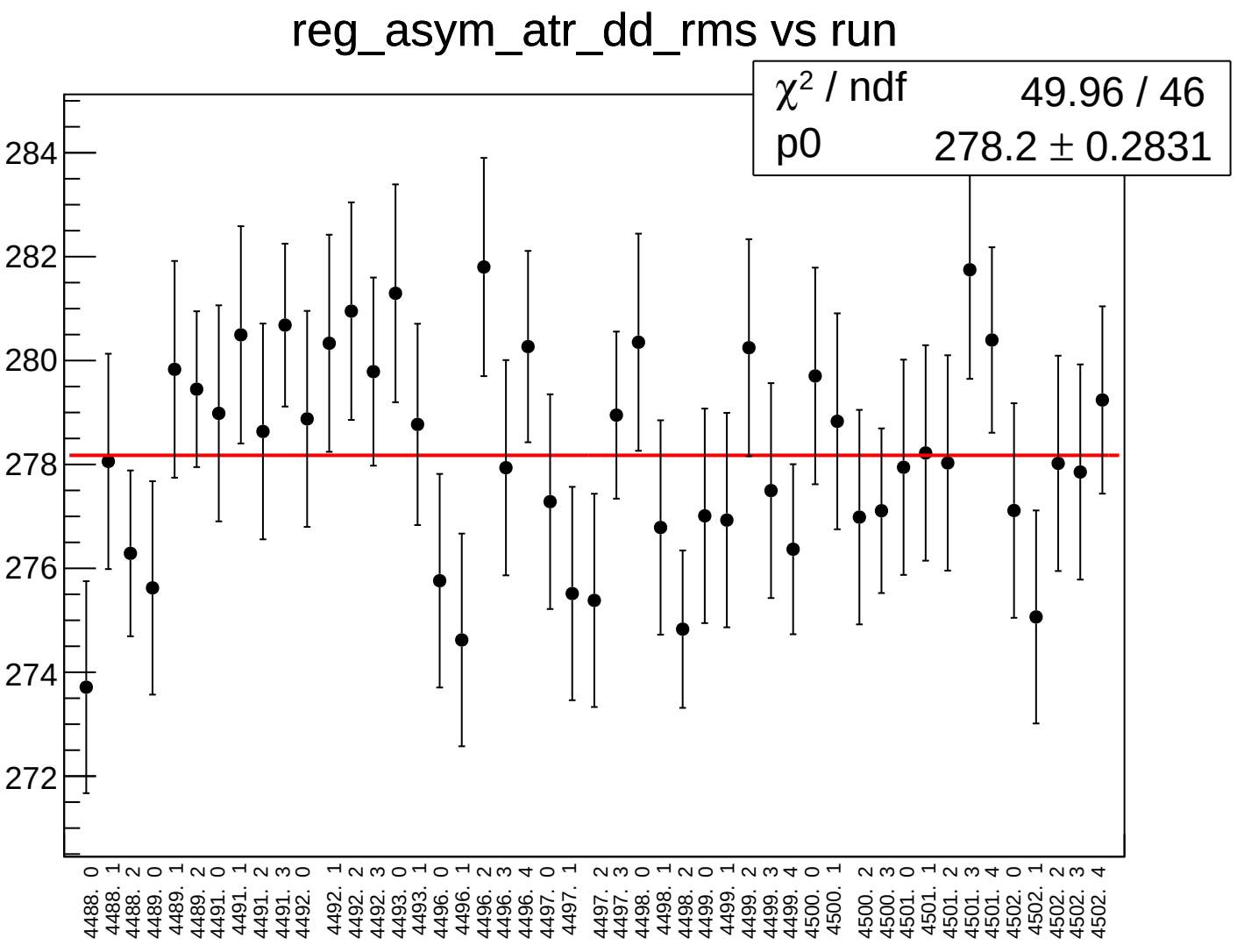

asym_atr_avg_mean vs run
χ² / ndf 43.1 / 46
p0 −559.5 ± 1299
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −25.75
Std Dev 57.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

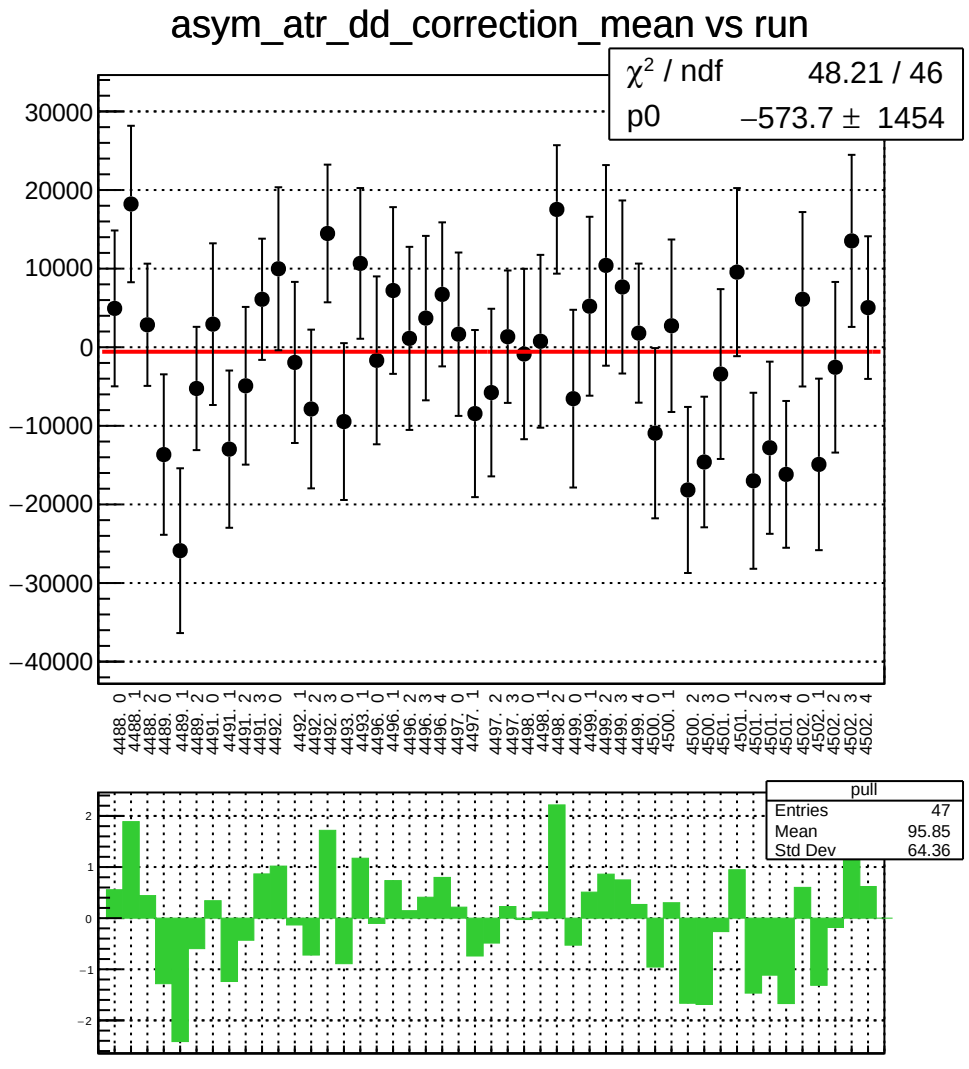

pull1D
Entries 47
Mean −0.01909
Std Dev 0.9574
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

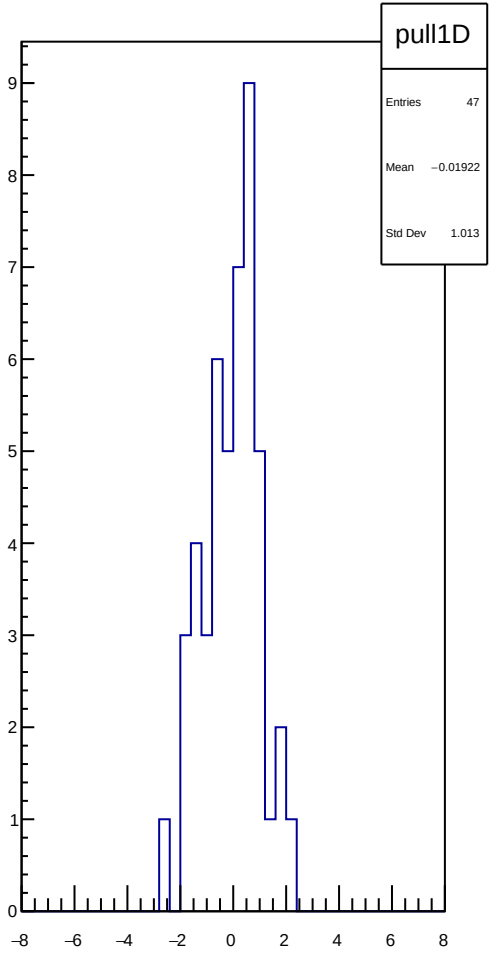

asym_atr_avg_rms vs run
χ^2 / ndf 1.983e+04 / 46
p0 892.8 ± 0.9182
1100
1000
900
800
700
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

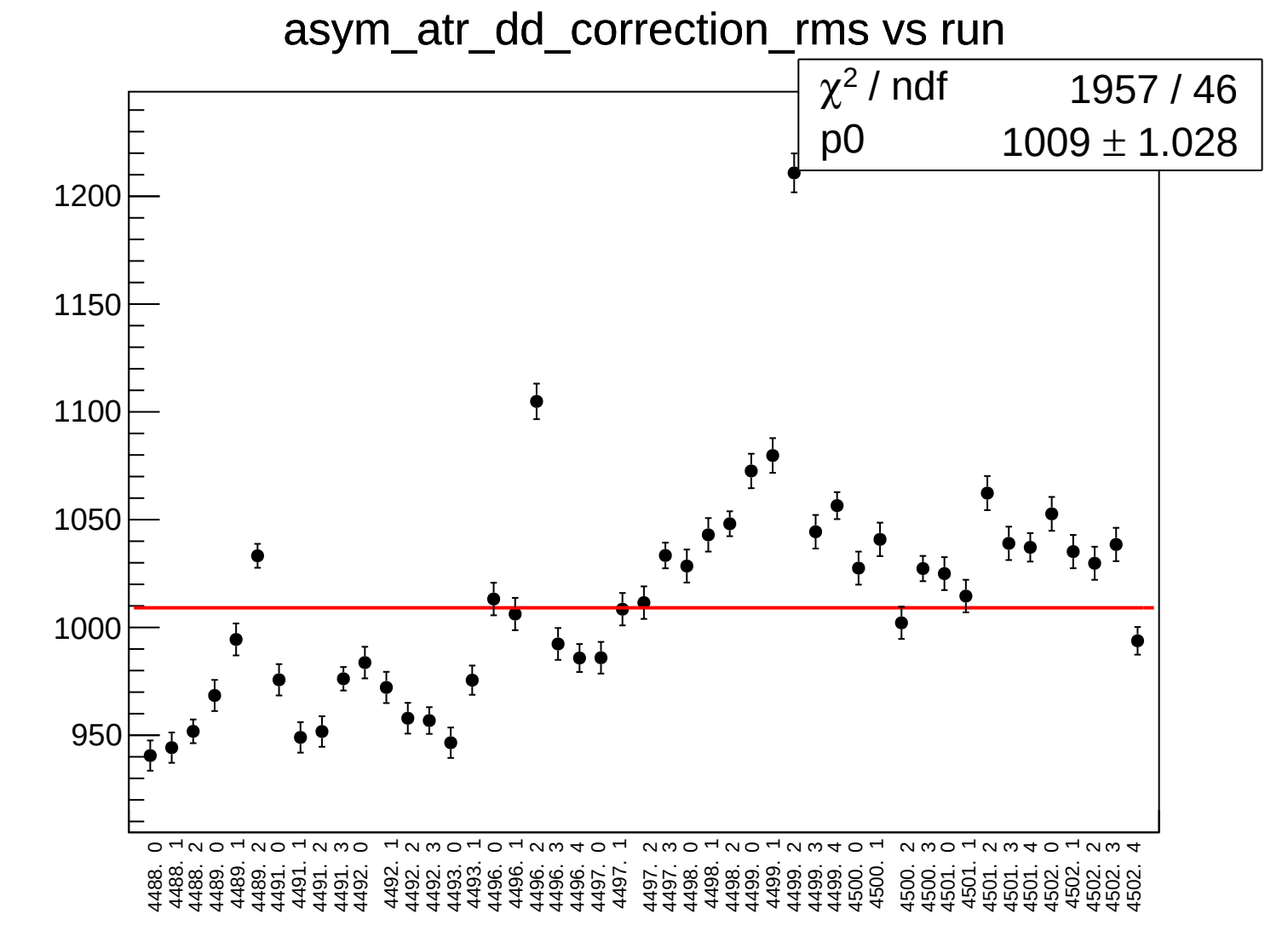

reg_asym_atr_dd_mean vs run
χ^2 / ndf 46.64 / 46
p0 202.7 ± 400.4
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −72.12
Std Dev 122.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

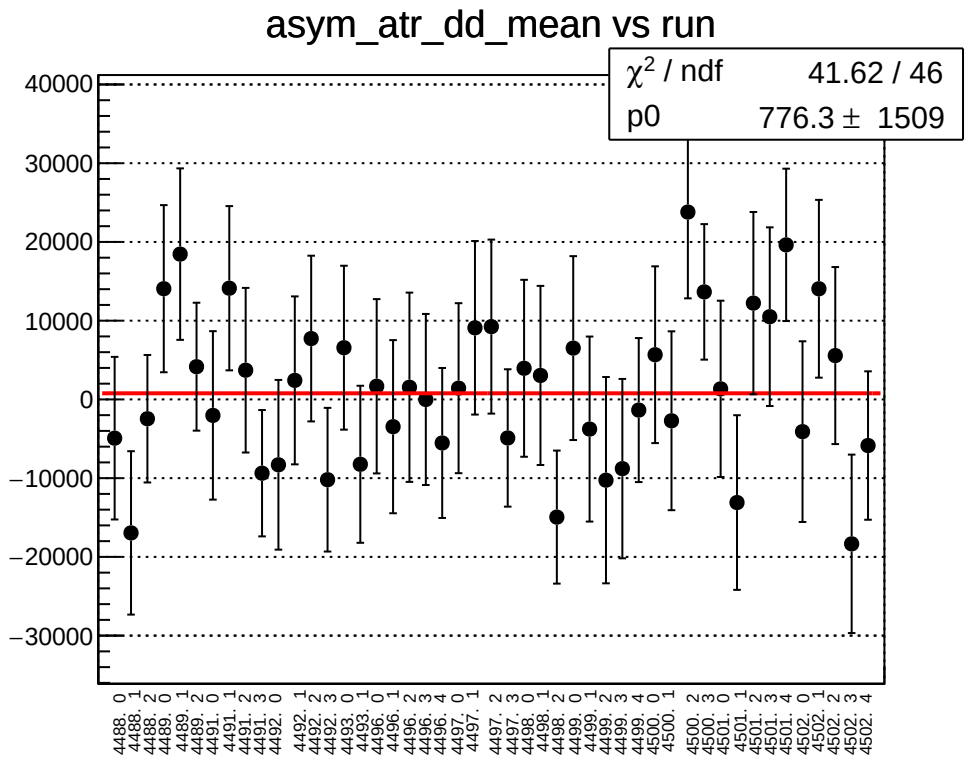

pull1D
Entries 47
Mean 0.007649
Std Dev 0.9962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

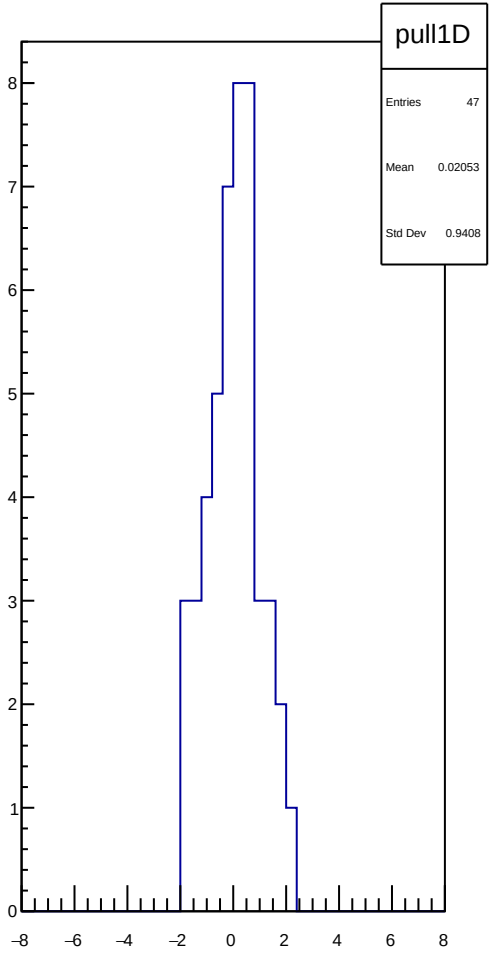

reg_asym_atr_dd_rms vs run
χ² / ndf 49.96 / 46
p0 278.2 ± 0.2831
284
282
280
278
276
274
272
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

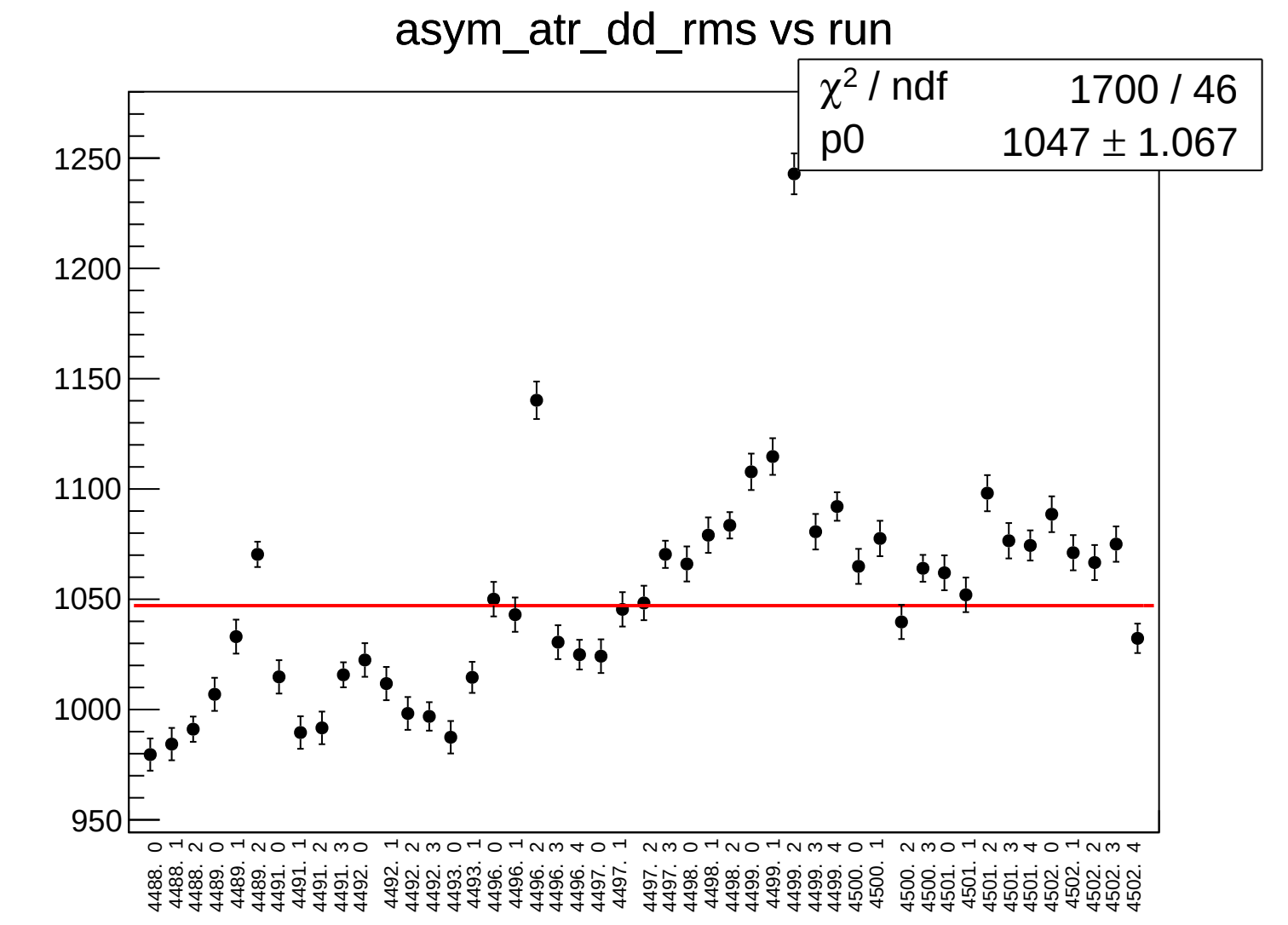

asym_atr_dd_correction_mean vs run
χ² / ndf 48.21 / 46
p0 −573.7 ± 1454
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 95.85
Std Dev 64.36
2
1
0
−1
−2

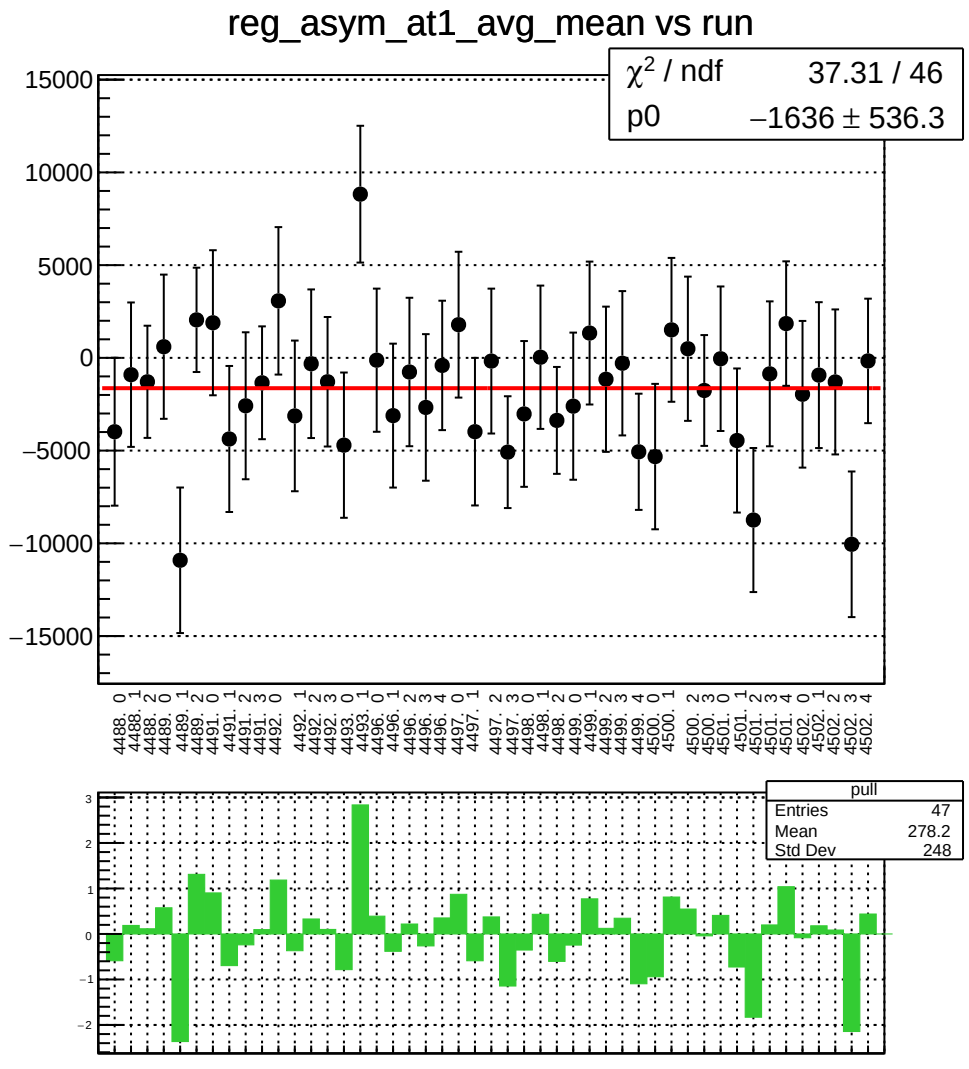

pull1D
Entries 47
Mean −0.01922
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

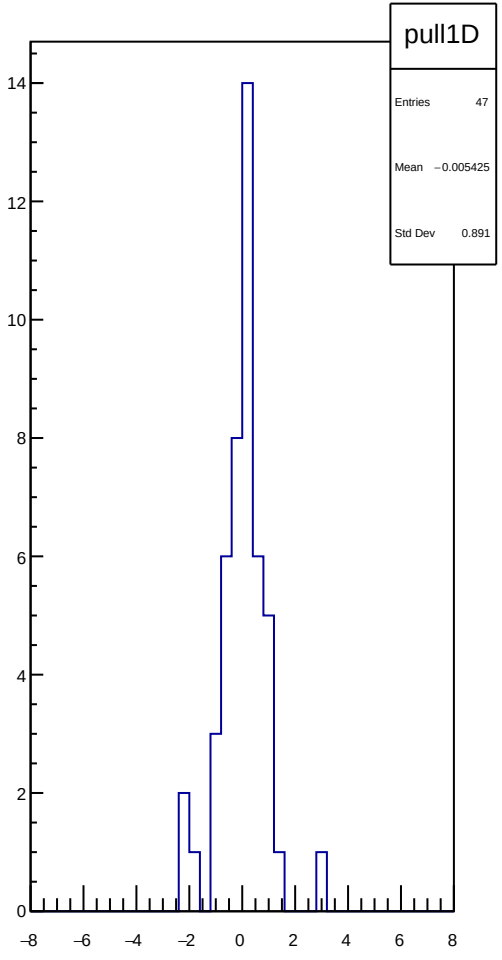

asym_atr_dd_correction_rms vs run
χ² / ndf 1957 / 46
p0 1009 ± 1.028
1200
1150
1100
1050
1000
950
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

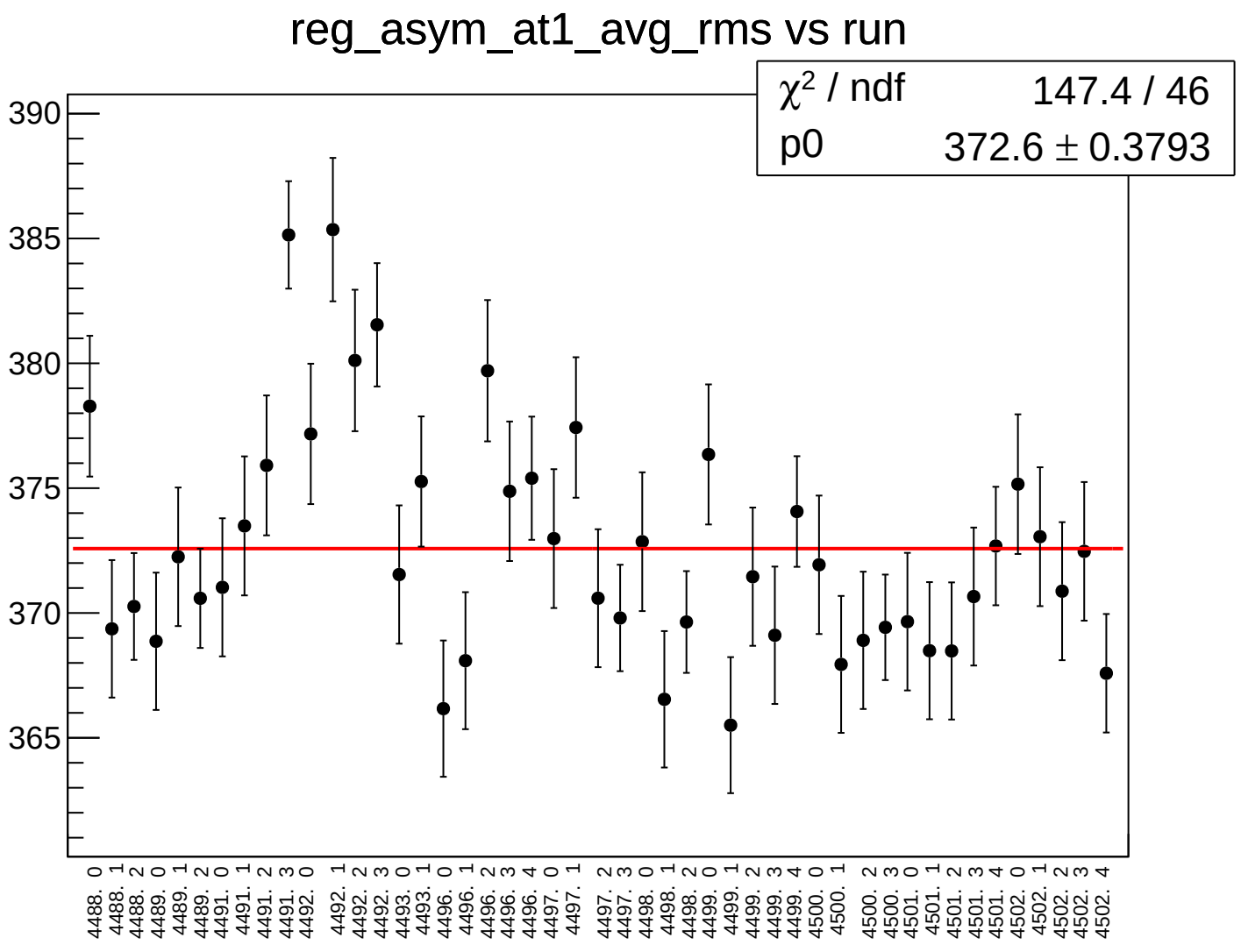

asym_atr_dd_mean vs run
χ² / ndf 41.62 / 46
p0 776.3 ± 1509
40000
30000
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 79.86
Std Dev 52.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

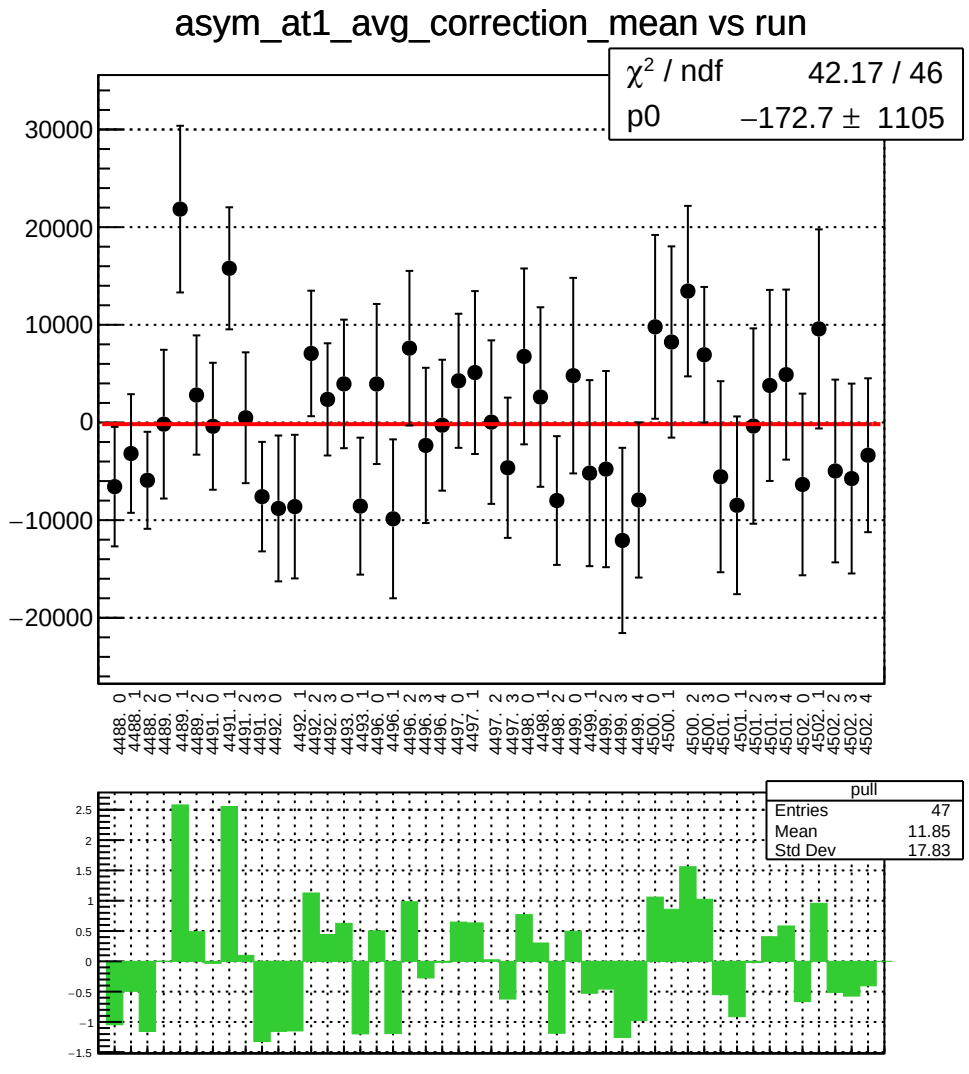

pull1D
Entries 47
Mean 0.02053
Std Dev 0.9408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

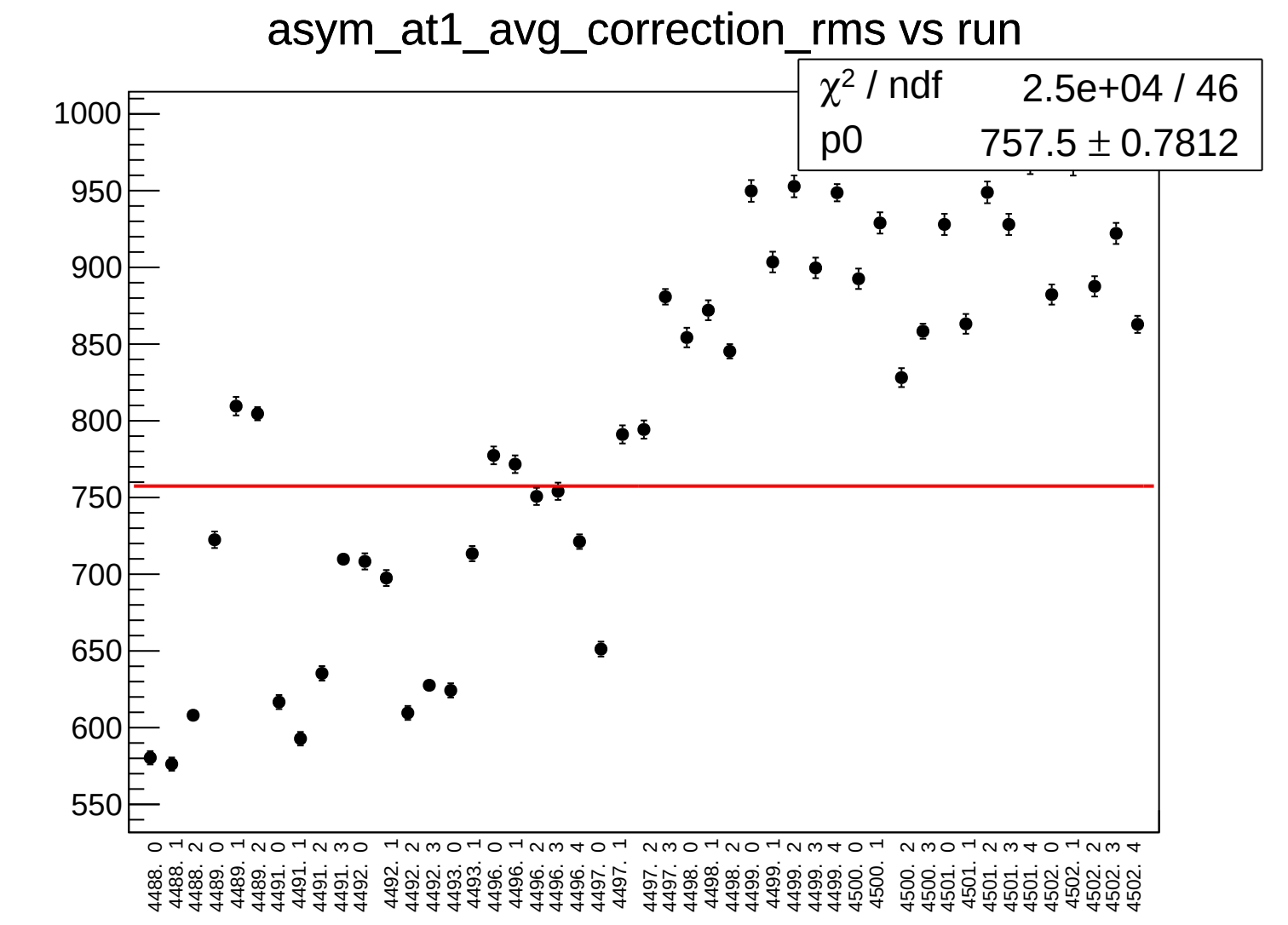

asym_atr_dd_rms vs run
χ^2 / ndf 1700 / 46
p0 1047 ± 1.067
1250
1200
1150
1100
1050
1000
950
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

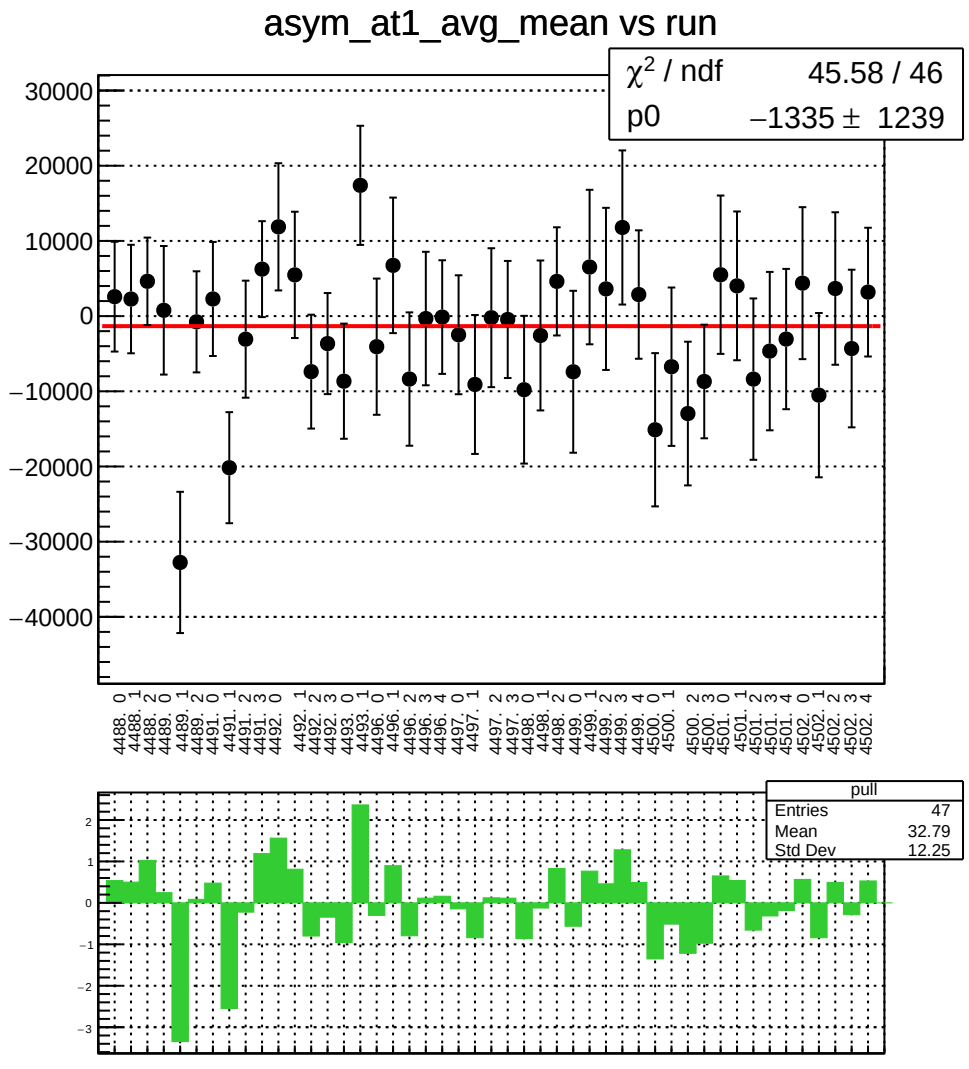

reg_asym_at1_avg_mean vs run
χ² / ndf 37.31 / 46
p0 −1636 ± 536.3
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 278.2
Std Dev 248
3
2
1
0
−1
−2

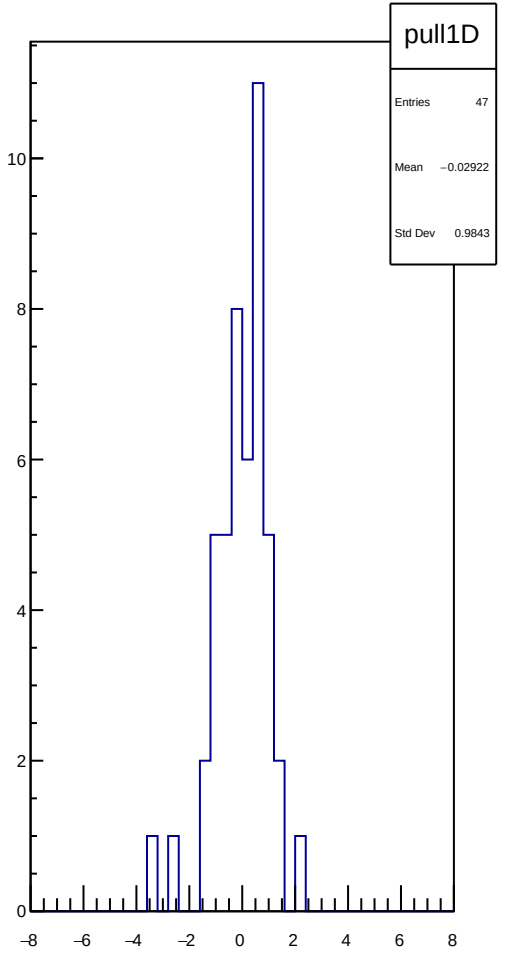

pull1D
Entries 47
Mean −0.005425
Std Dev 0.891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

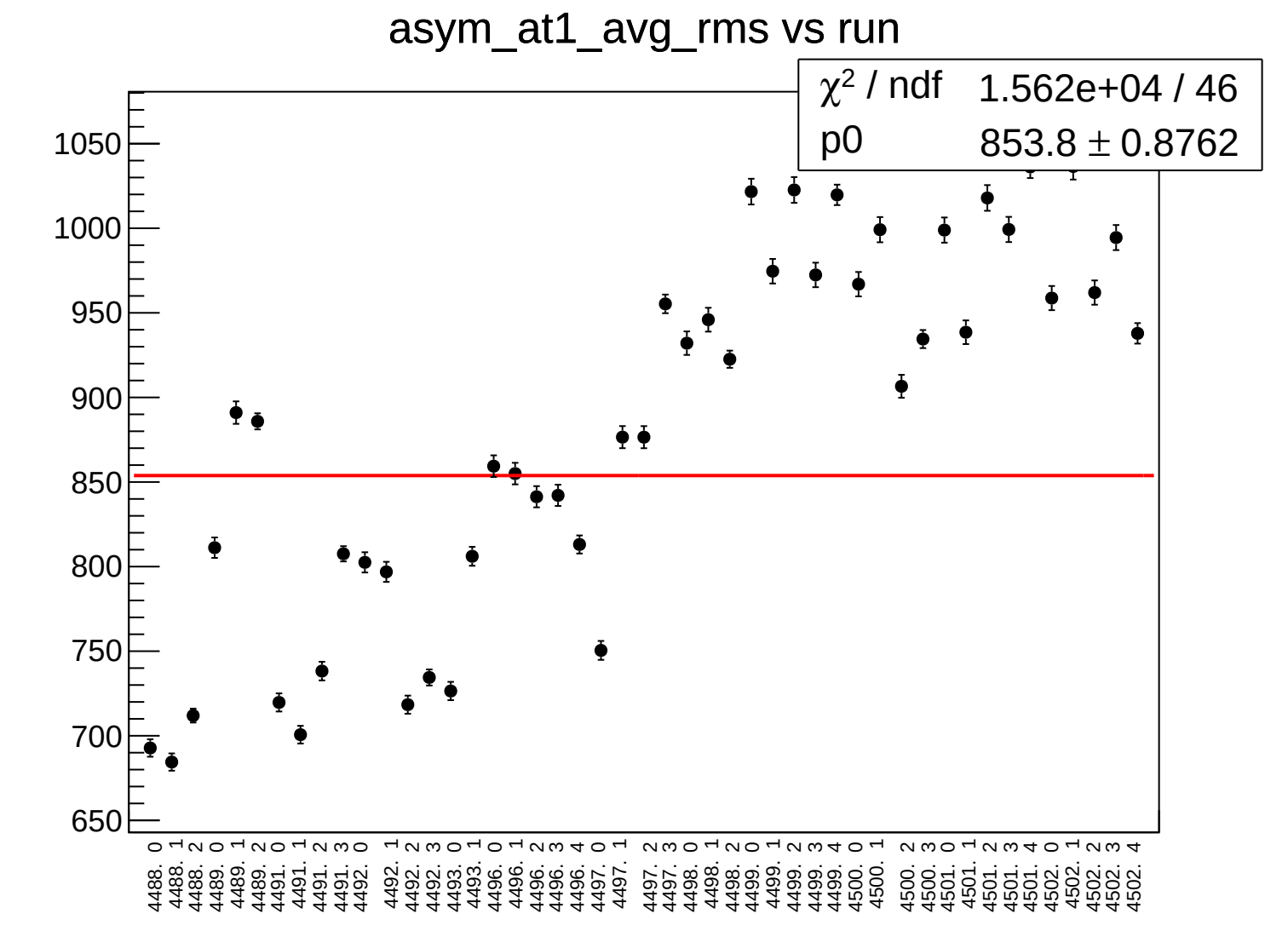

reg_asym_at1_avg_rms vs run
χ² / ndf 147.4 / 46
p0 372.6 ± 0.3793
390
385
380
375
370
365
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

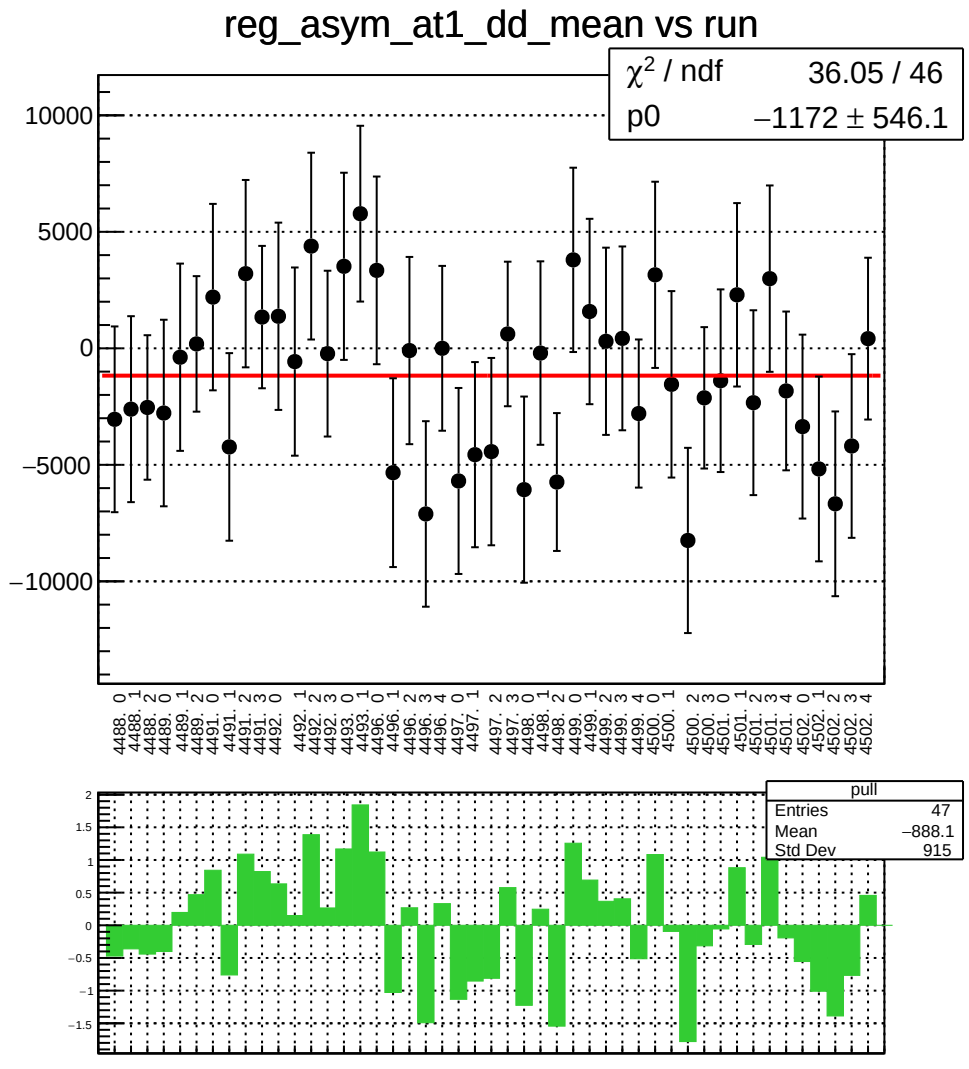

asym_at1_avg_correction_mean vs run
χ² / ndf 42.17 / 46
p0 −172.7 ± 1105
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 11.85
Std Dev 17.83
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.02191
Std Dev 0.947
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

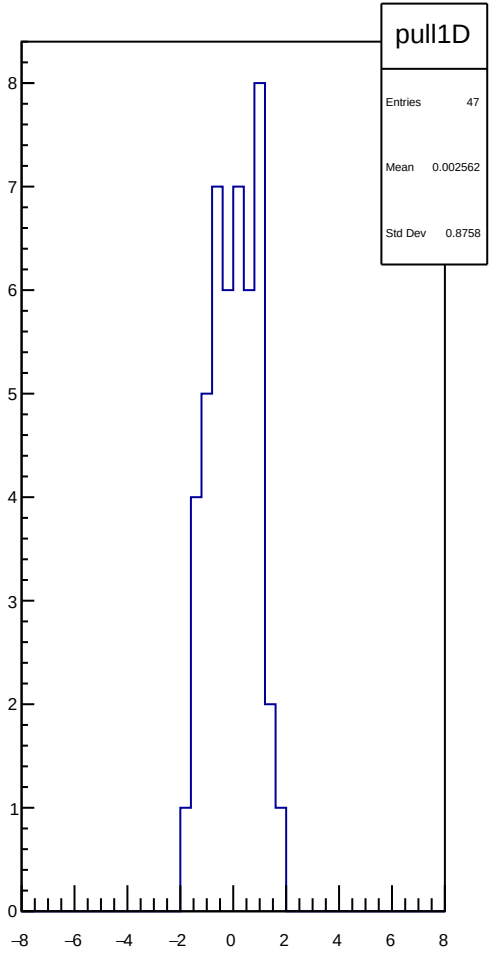

asym_at1_avg_correction_rms vs run
χ² / ndf 2.5e+04 / 46
p0 757.5 ± 0.7812
1000
950
900
850
800
750
700
650
600
550
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

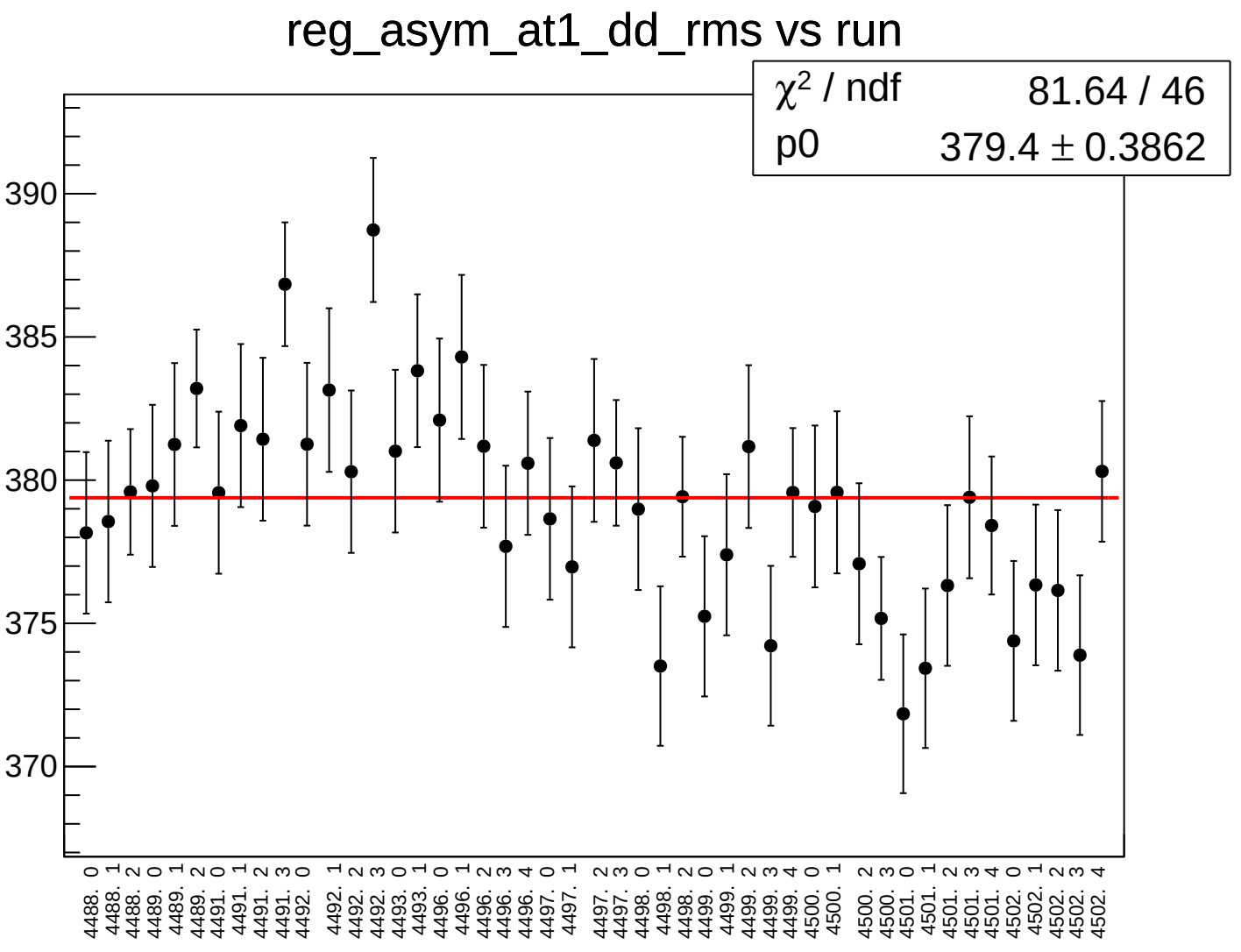

asym_at1_avg_mean vs run
χ² / ndf 45.58 / 46
p0 −1335 ± 1239
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 32.79
Std Dev 12.25
2
1
0
−1
−2
−3

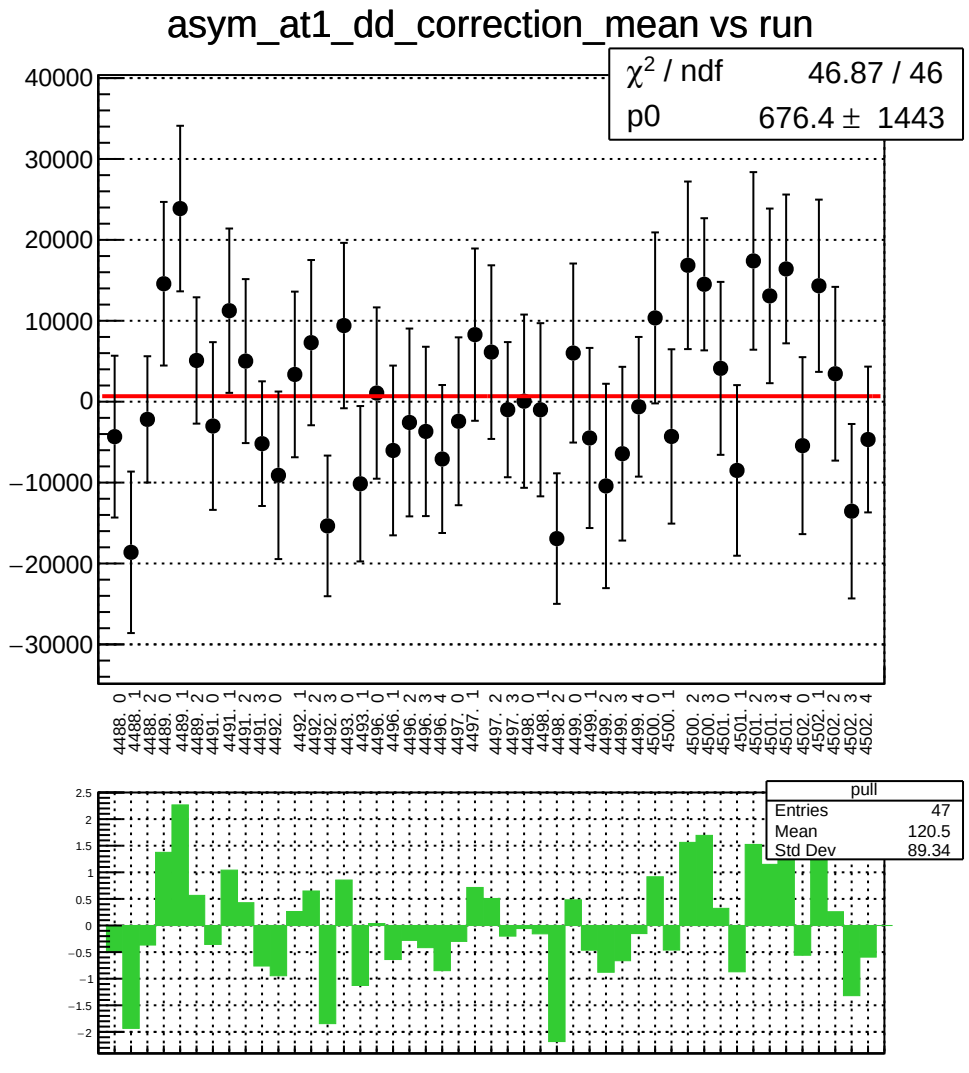

pull1D
Entries 47
Mean −0.02922
Std Dev 0.9843
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

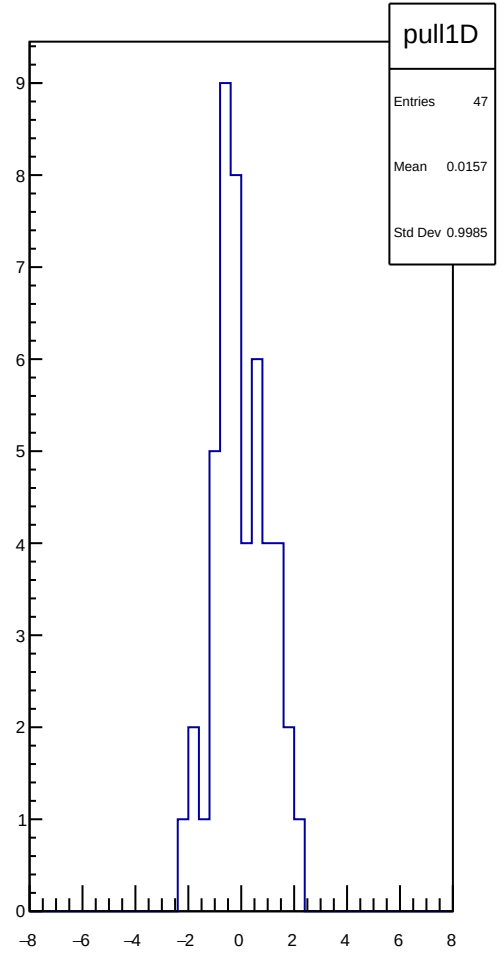

asym_at1_avg_rms vs run
χ^2 / ndf 1.562e+04 / 46
p0 853.8 ± 0.8762
1050
1000
950
900
850
800
750
700
650
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

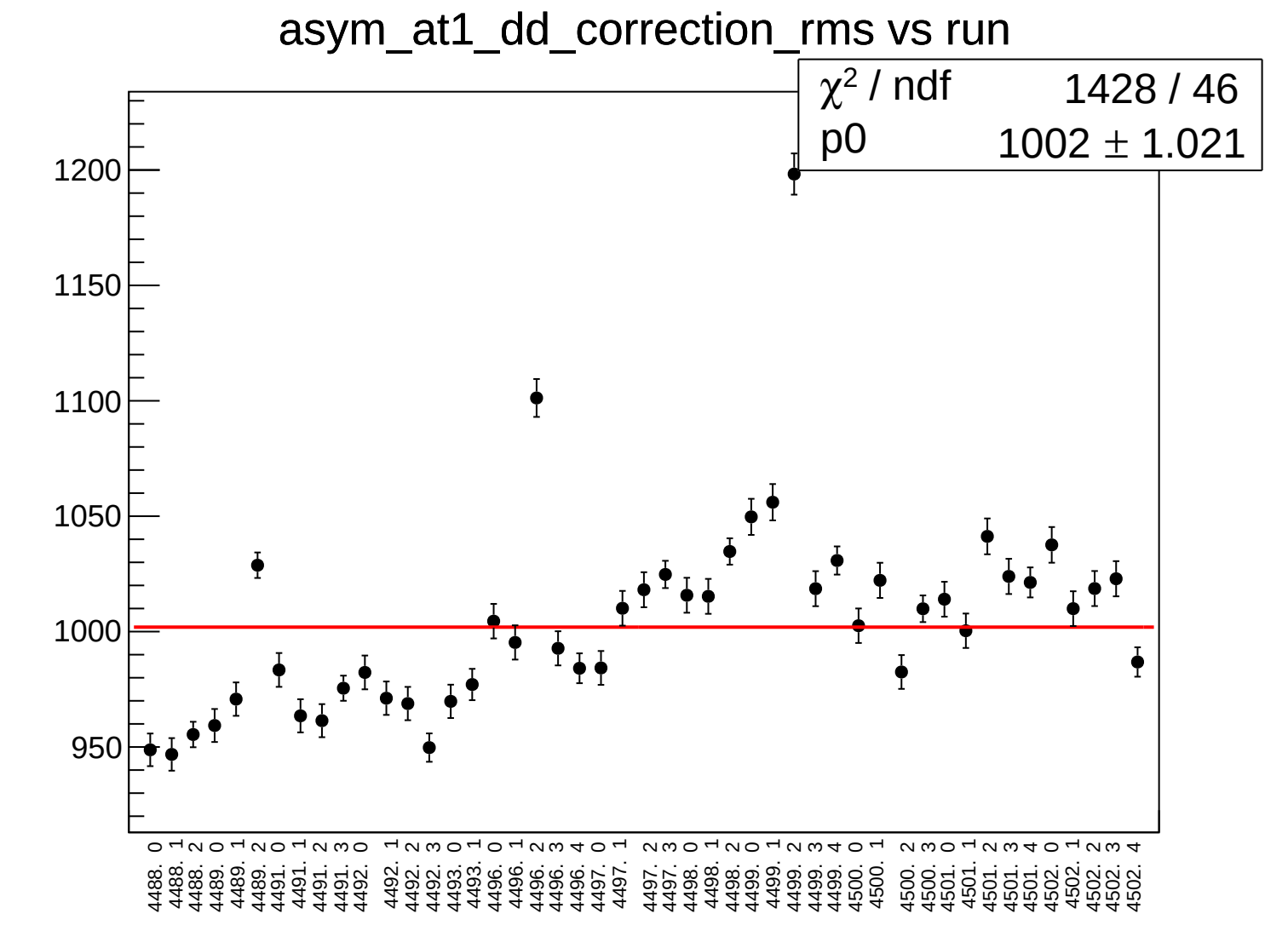

reg_asym_at1_dd_mean vs run
χ² / ndf 36.05 / 46
p0 −1172 ± 546.1
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −888.1
Std Dev 915
2
1.5
1
0.5
0
−0.5
−1
−1.5

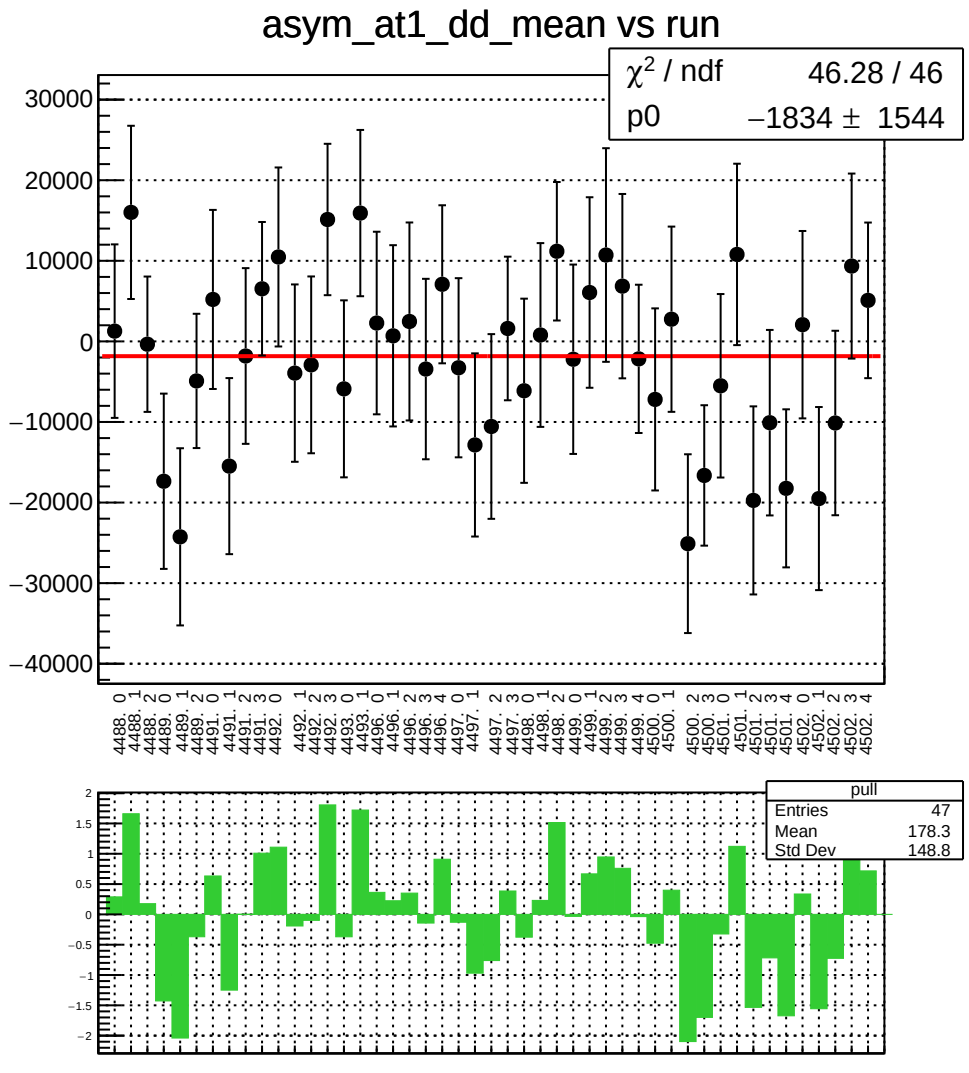

pull1D
Entries 47
Mean 0.002562
Std Dev 0.8758
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

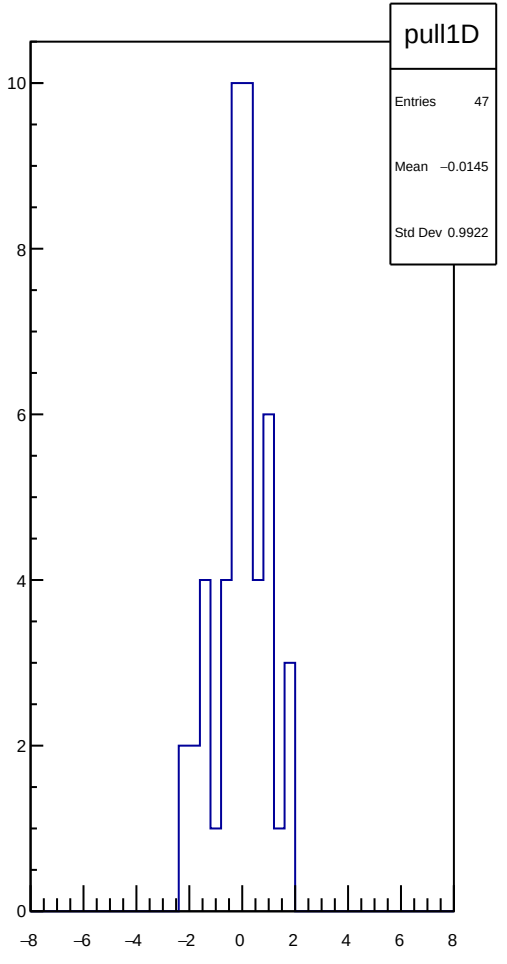

reg_asym_at1_dd_rms vs run
χ² / ndf 81.64 / 46
p0 379.4 ± 0.3862
390
385
380
375
370
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

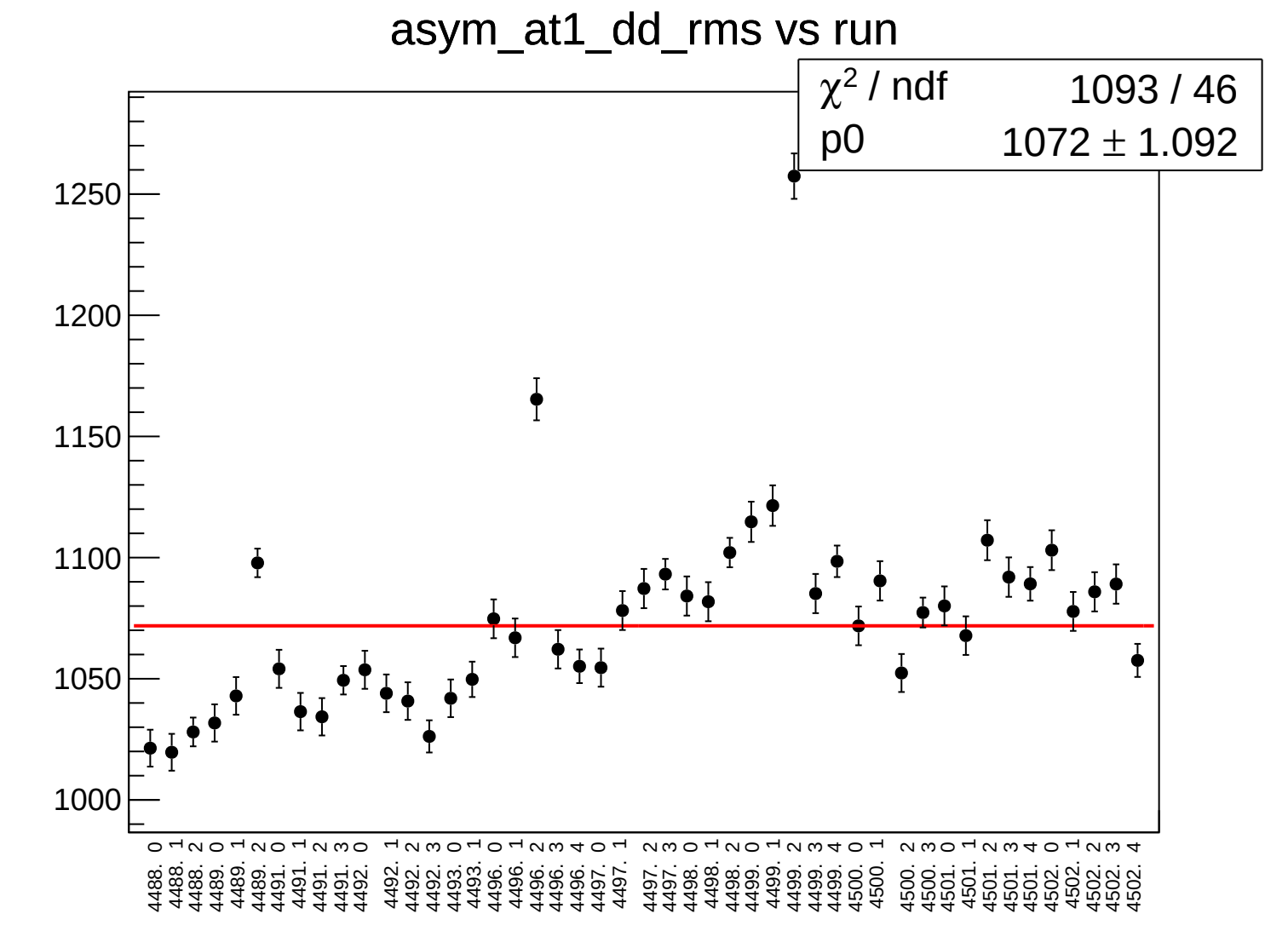

asym_at1_dd_correction_mean vs run
χ² / ndf 46.87 / 46
p0 676.4 ± 1443
pull
Entries 47
Mean 120.5
Std Dev 89.34

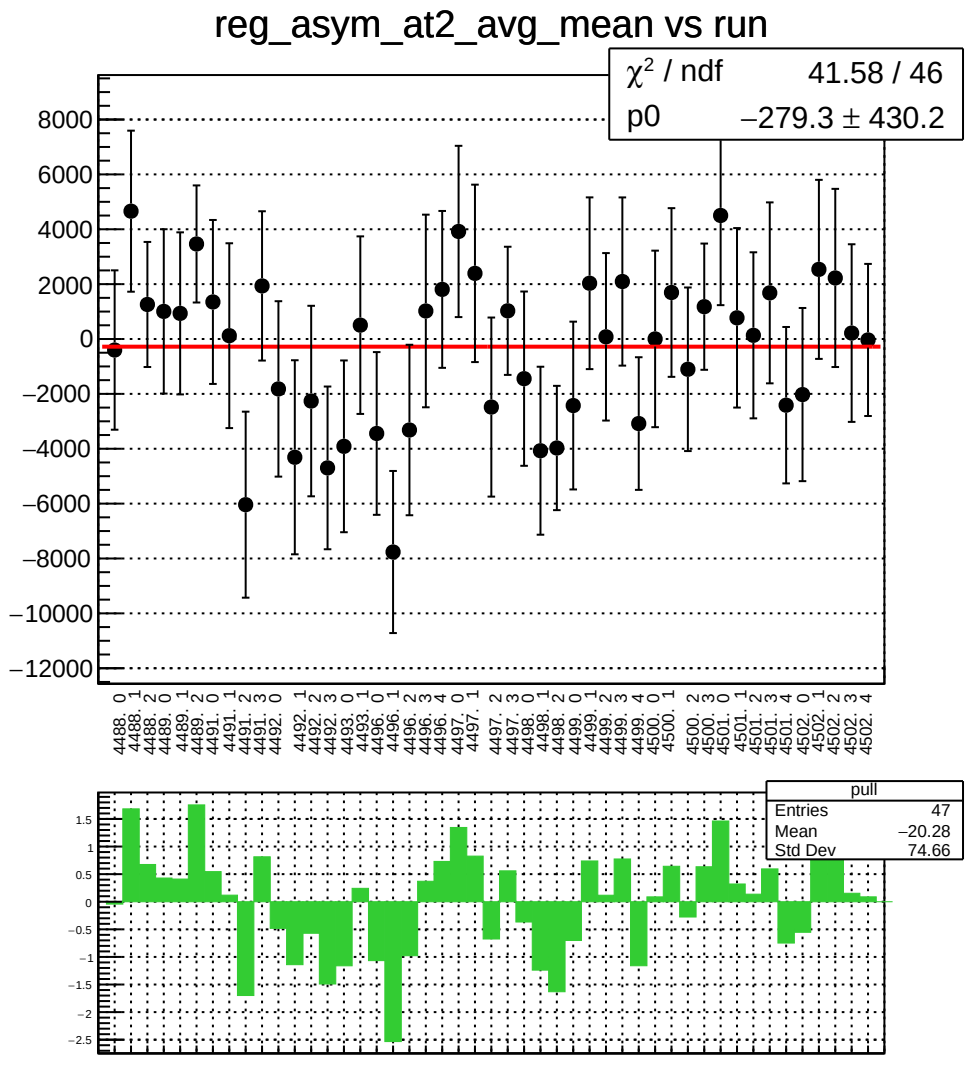

pull1D
Entries 47
Mean 0.0157
Std Dev 0.9985

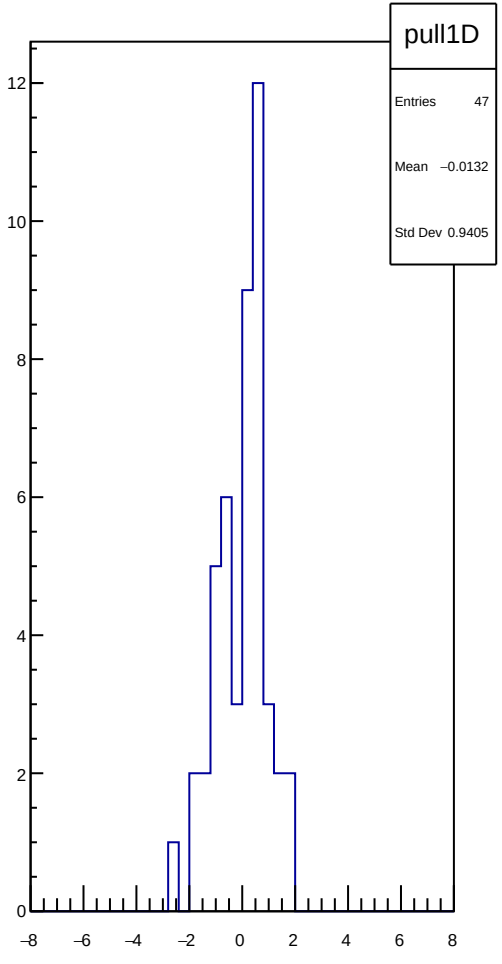

asym_at1_dd_correction_rms vs run
χ² / ndf 1428 / 46
p0 1002 ± 1.021
1200
1150
1100
1050
1000
950
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

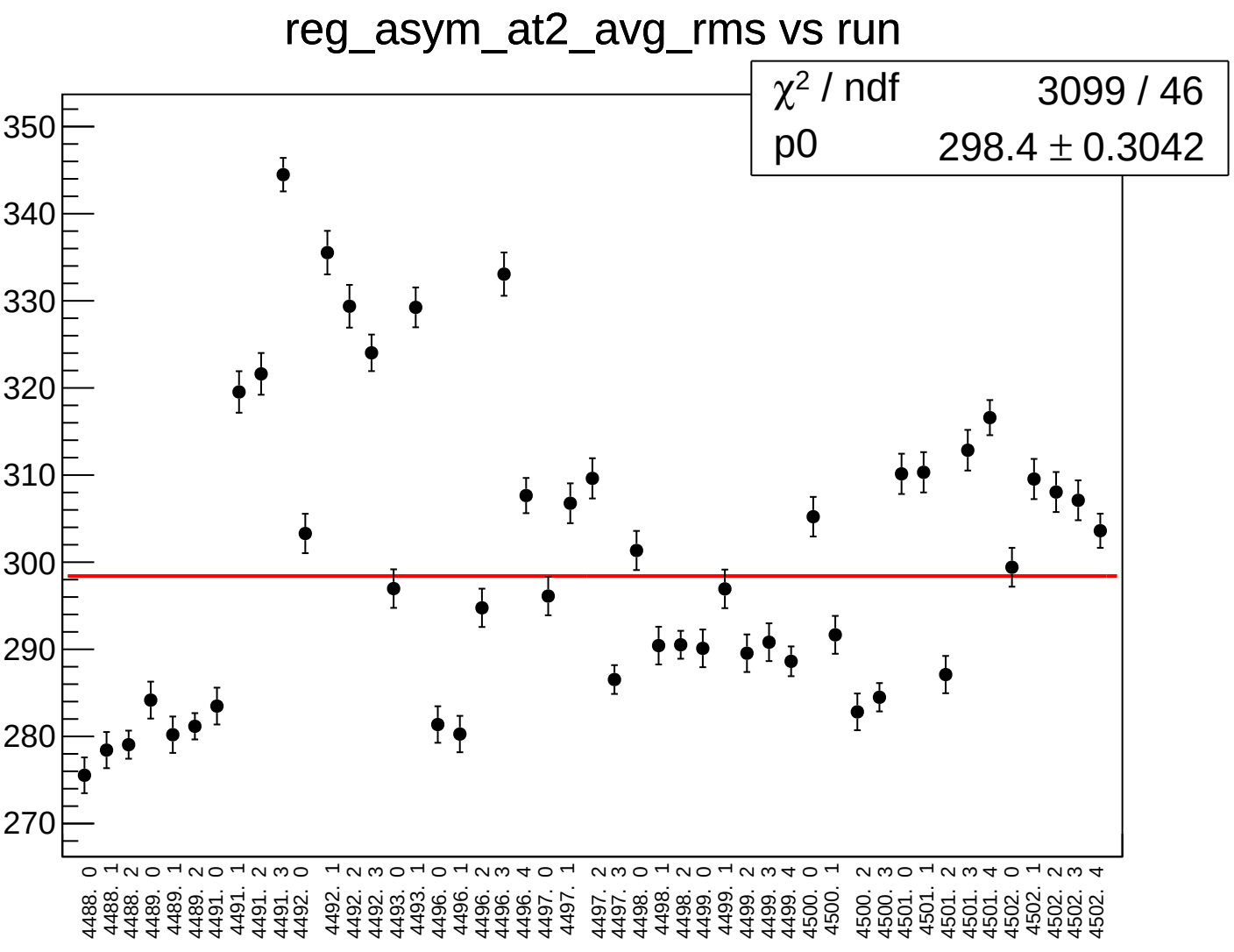

asym_at1_dd_mean vs run
χ² / ndf 46.28 / 46
p0 −1834 ± 1544
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 178.3
Std Dev 148.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

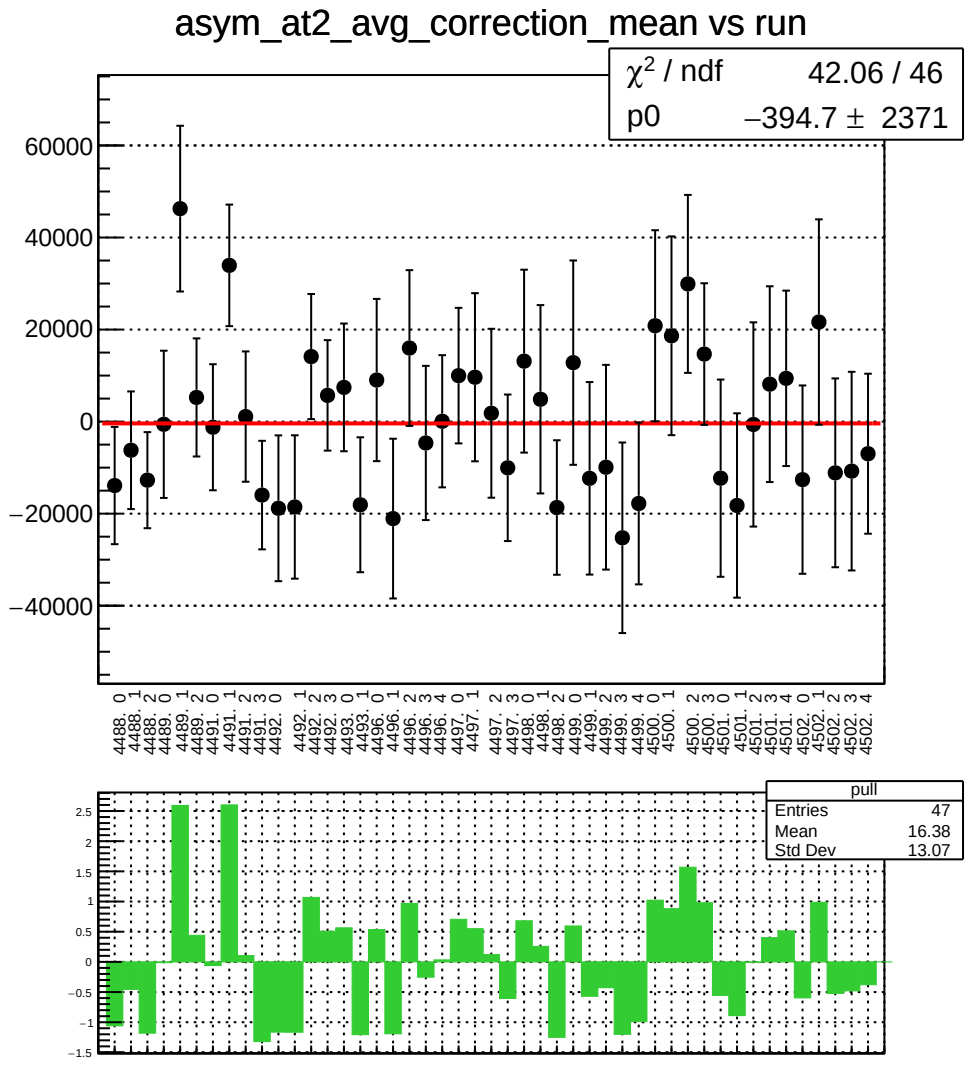

pull1D
Entries 47
Mean −0.0145
Std Dev 0.9922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

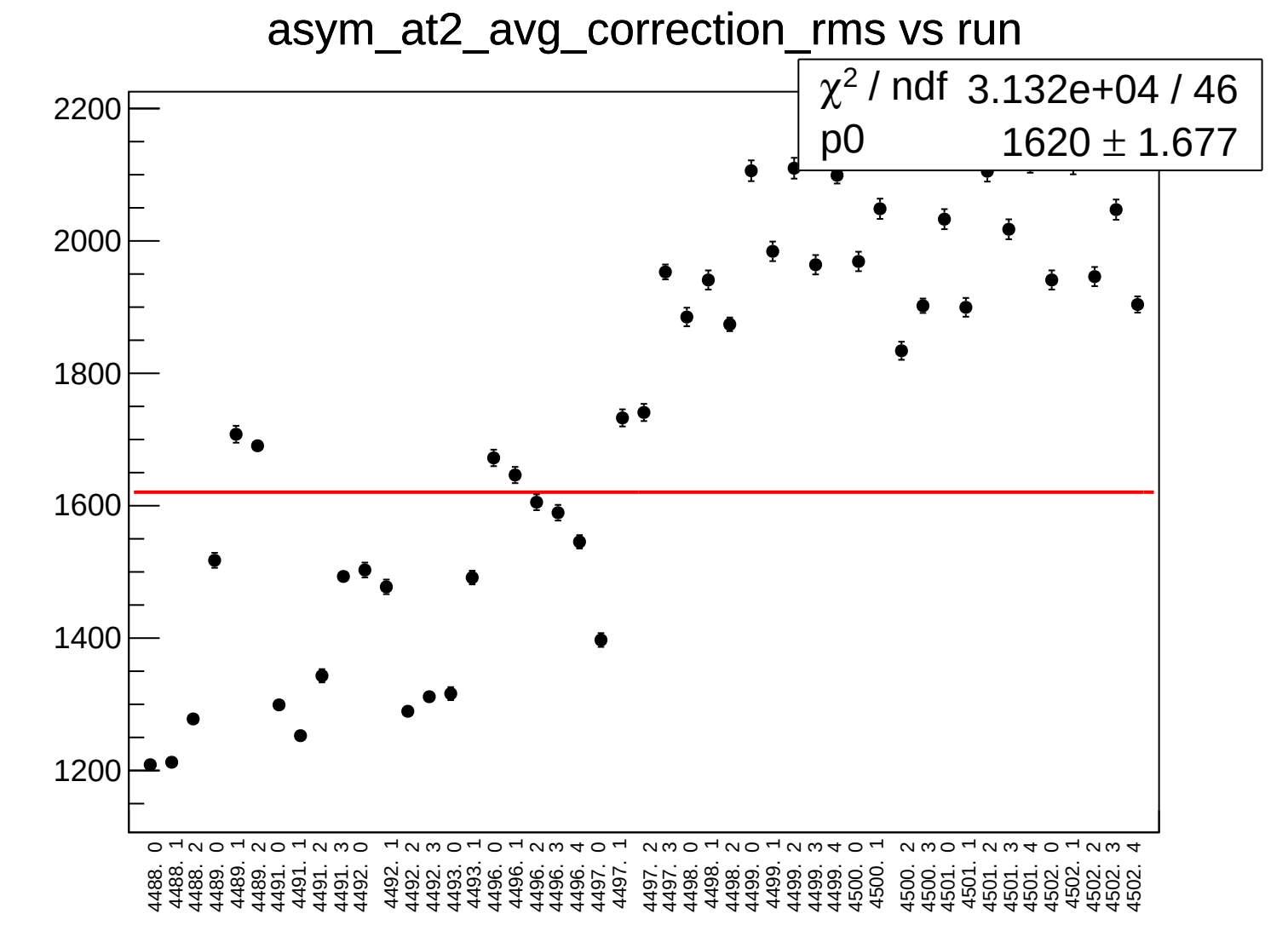

asym_at1_dd_rms vs run
χ² / ndf 1093 / 46
p0 1072 ± 1.092
1250
1200
1150
1100
1050
1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

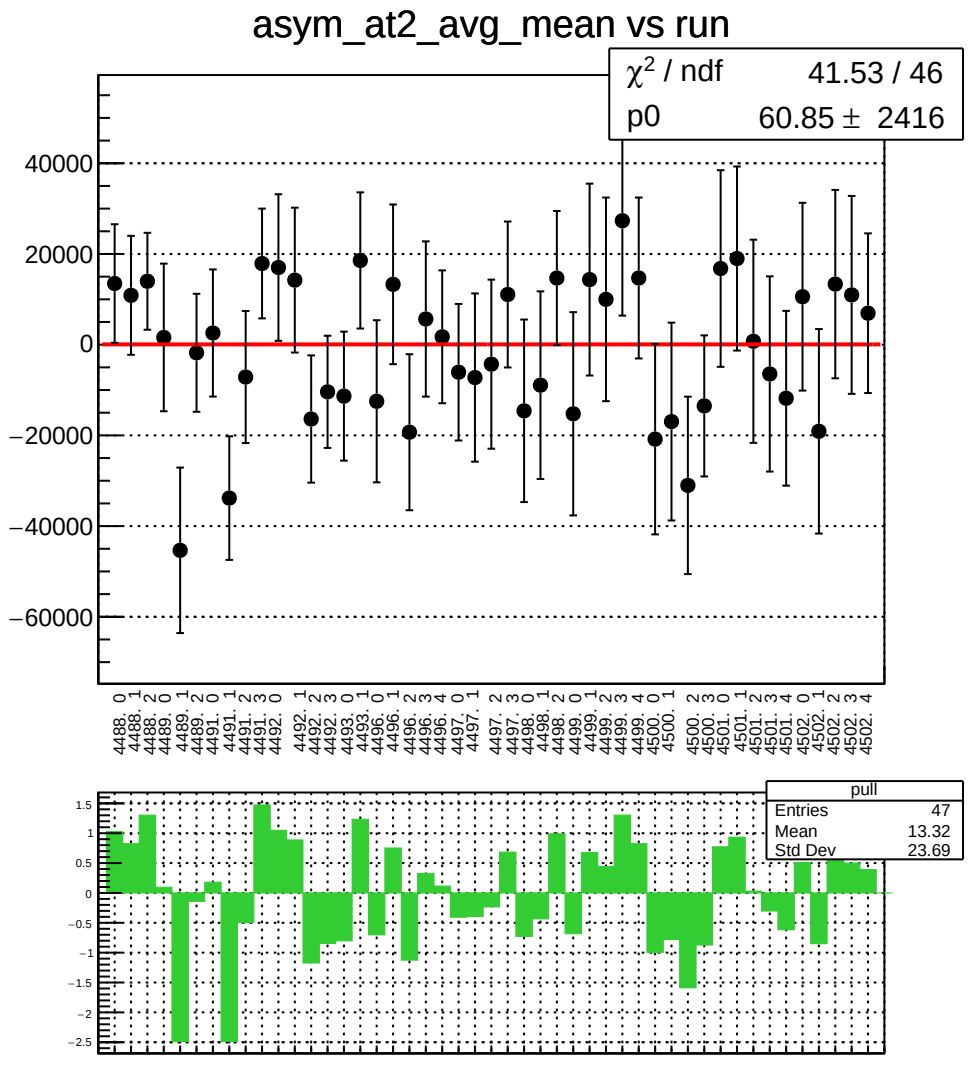

reg_asym_at2_avg_mean vs run
χ² / ndf 41.58 / 46
p0 −279.3 ± 430.2
pull
Entries 47
Mean −20.28
Std Dev 74.66

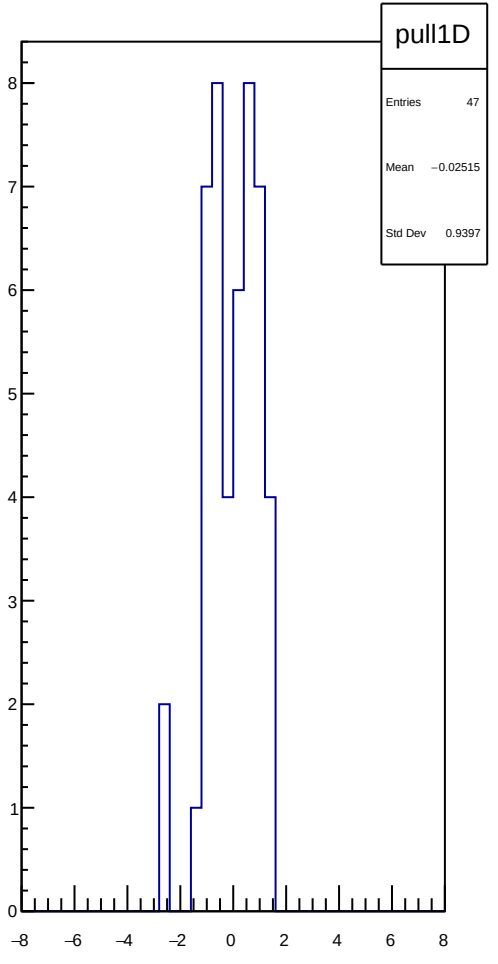

pull1D
Entries 47
Mean −0.0132
Std Dev 0.9405

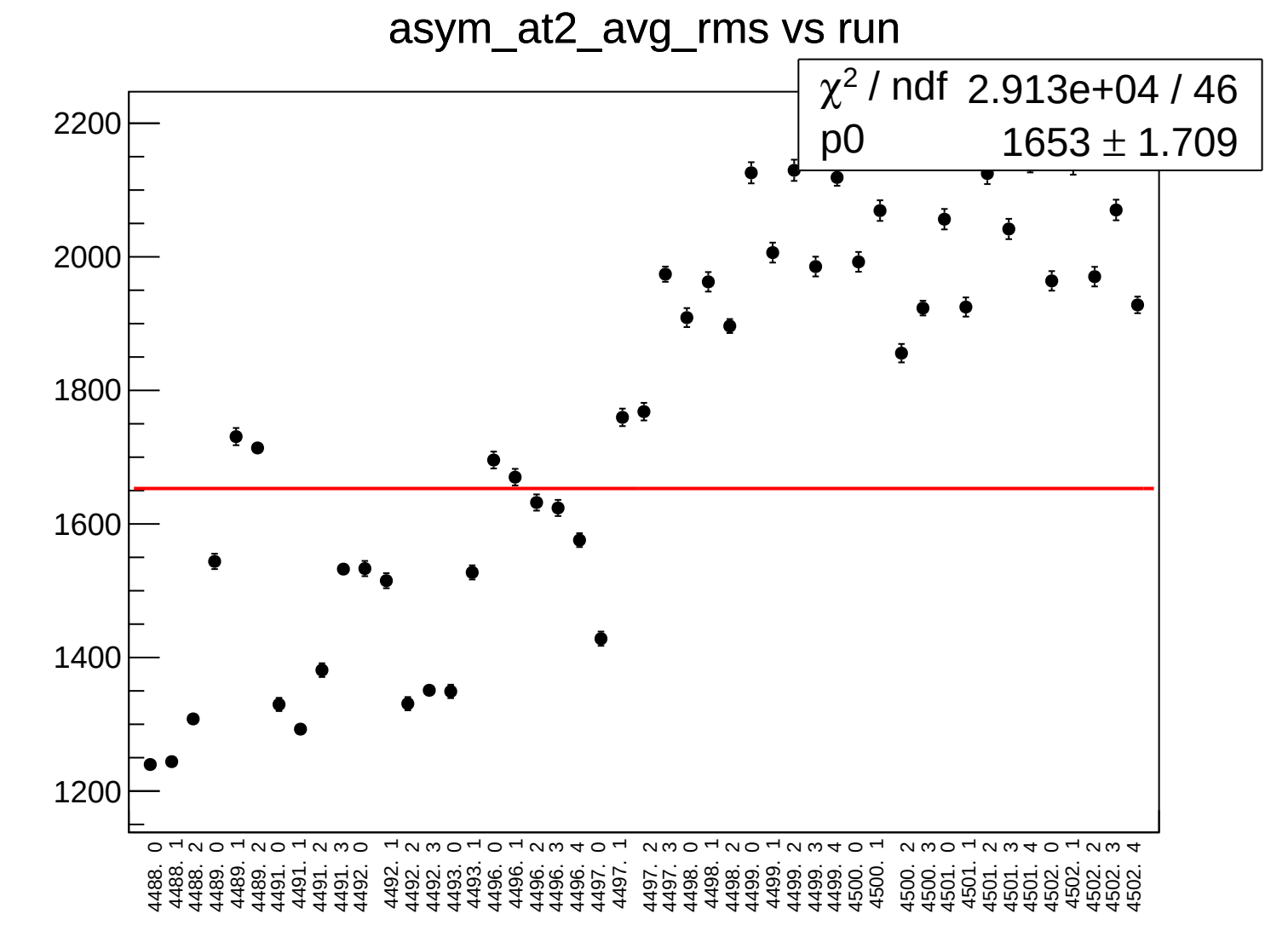

reg_asym_at2_avg_rms vs run
χ² / ndf 3099 / 46
p0 298.4 ± 0.3042
350
340
330
320
310
300
290
280
270
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

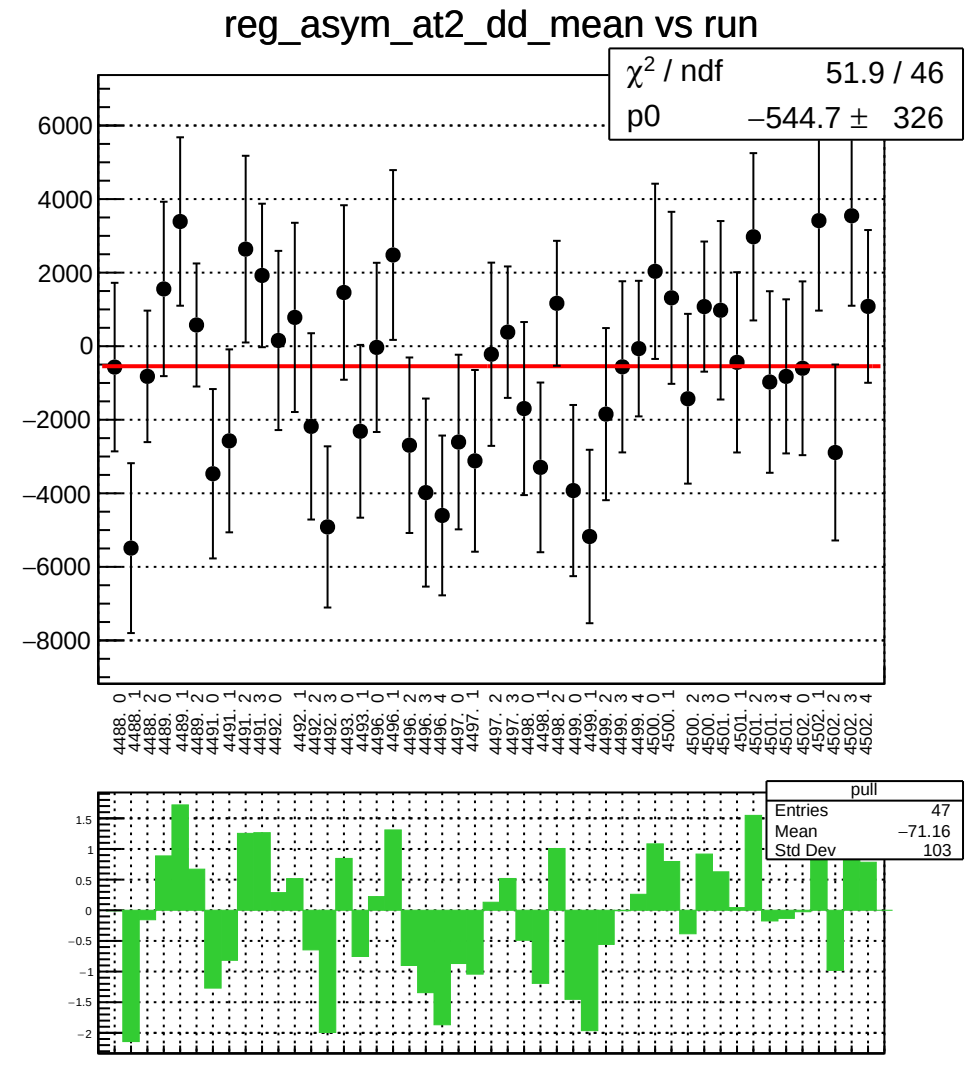

asym_at2_avg_correction_mean vs run
χ² / ndf 42.06 / 46
p0 −394.7 ± 2371
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 16.38
Std Dev 13.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.02406
Std Dev 0.9456
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

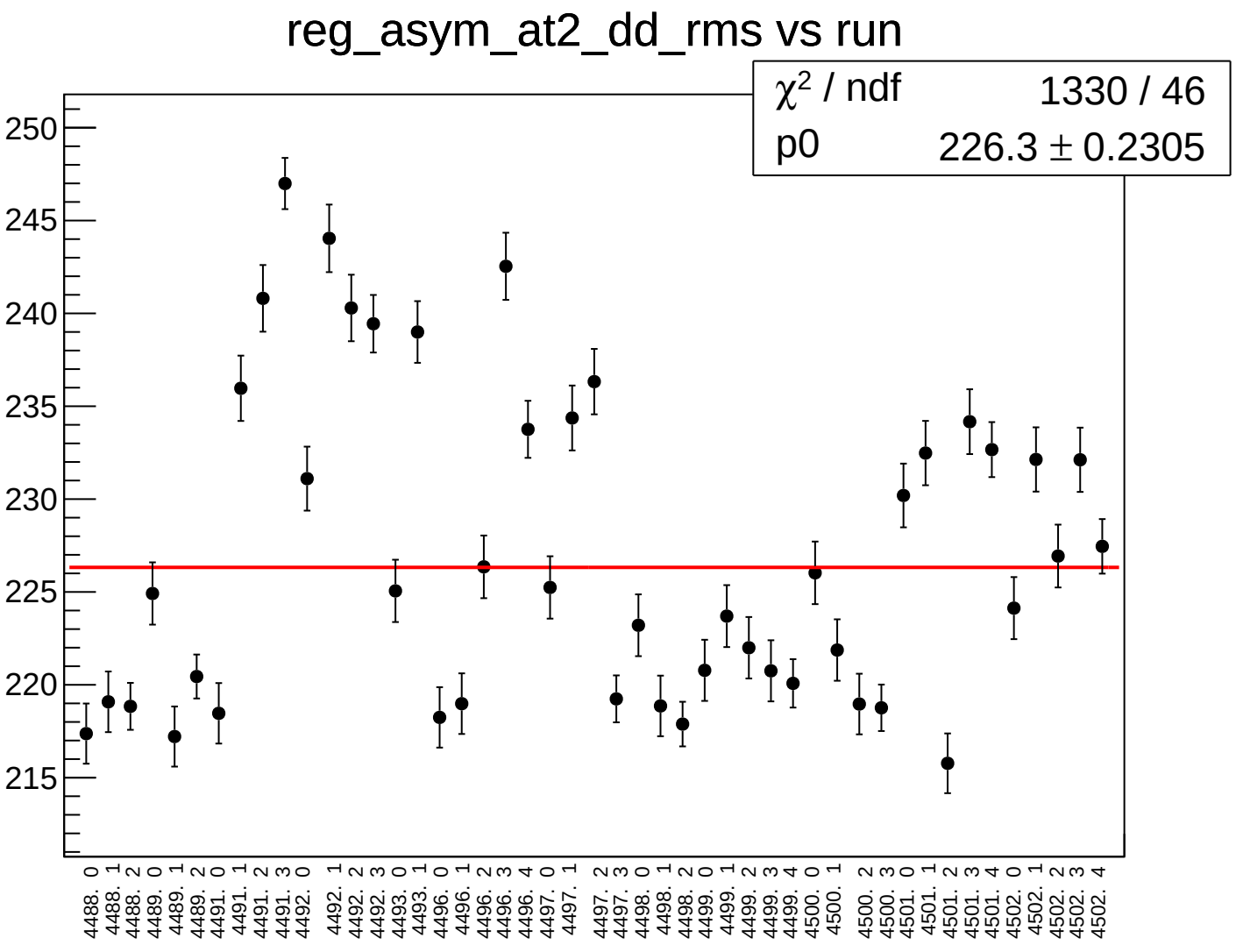

asym_at2_avg_correction_rms vs run
χ² / ndf 3.132e+04 / 46
p0 1620 ± 1.677
2200
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

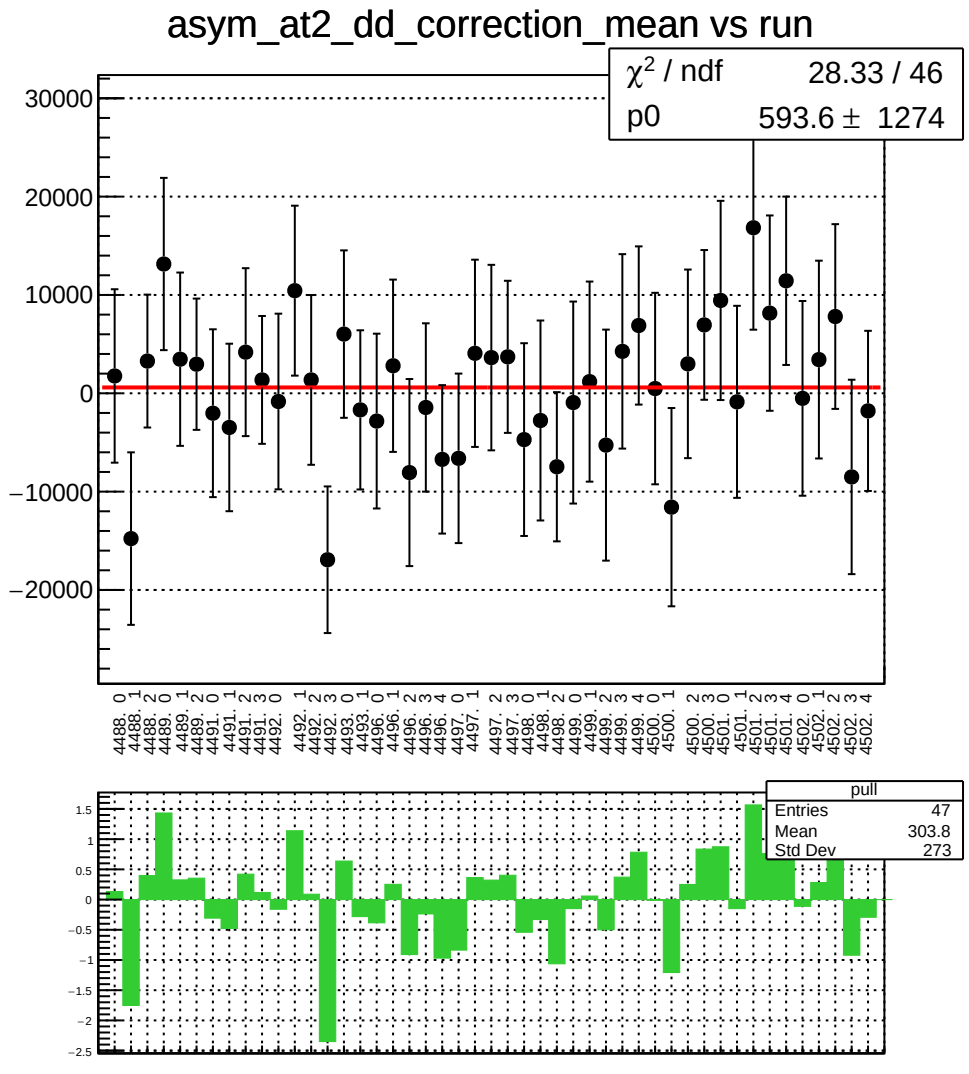

asym_at2_avg_mean vs run
χ² / ndf 41.53 / 46
p0 60.85 ± 2416
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 13.32
Std Dev 23.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

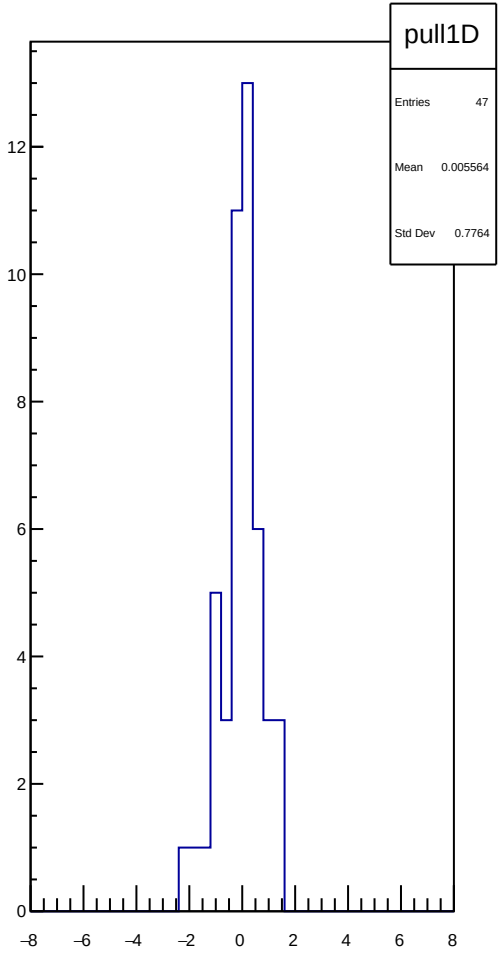

pull1D
Entries 47
Mean −0.02515
Std Dev 0.9397
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

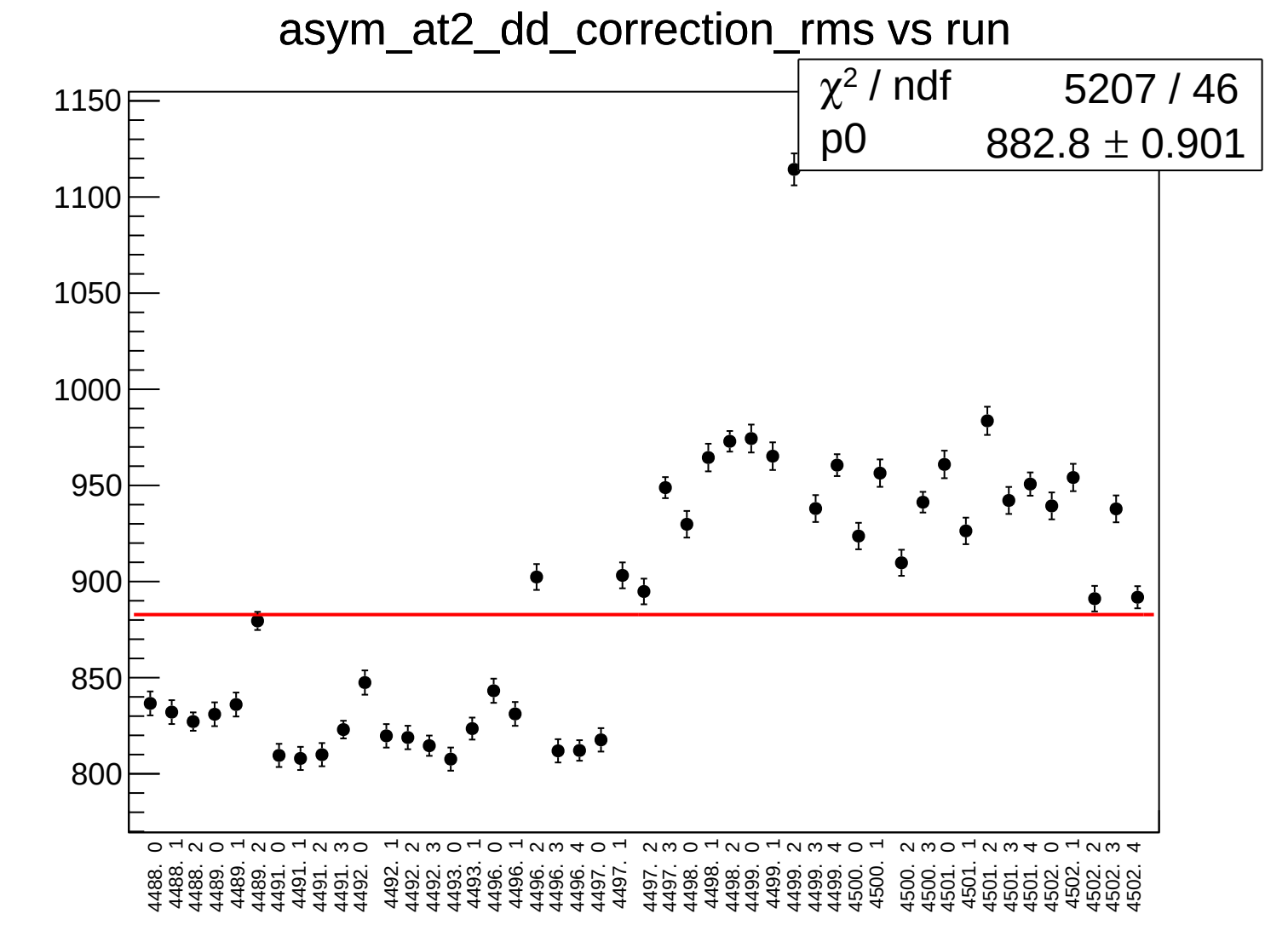

asym_at2_avg_rms vs run
χ^2 / ndf 2.913e+04 / 46
p0 1653 ± 1.709
2200
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

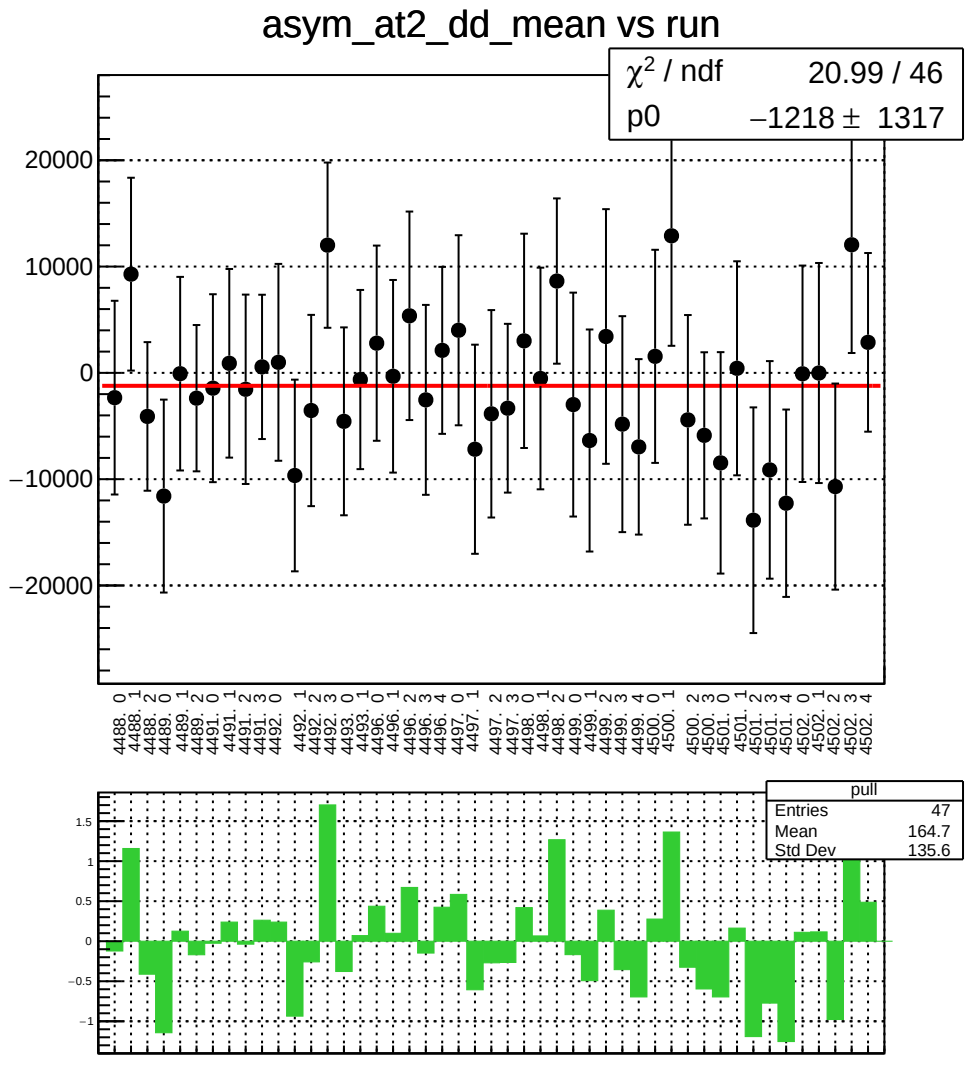

reg_asym_at2_dd_mean vs run
χ² / ndf 51.9 / 46
p0 −544.7 ± 326
6000
4000
2000
0
−2000
−4000
−6000
−8000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −71.16
Std Dev 103
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.02513
Std Dev 1.051
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

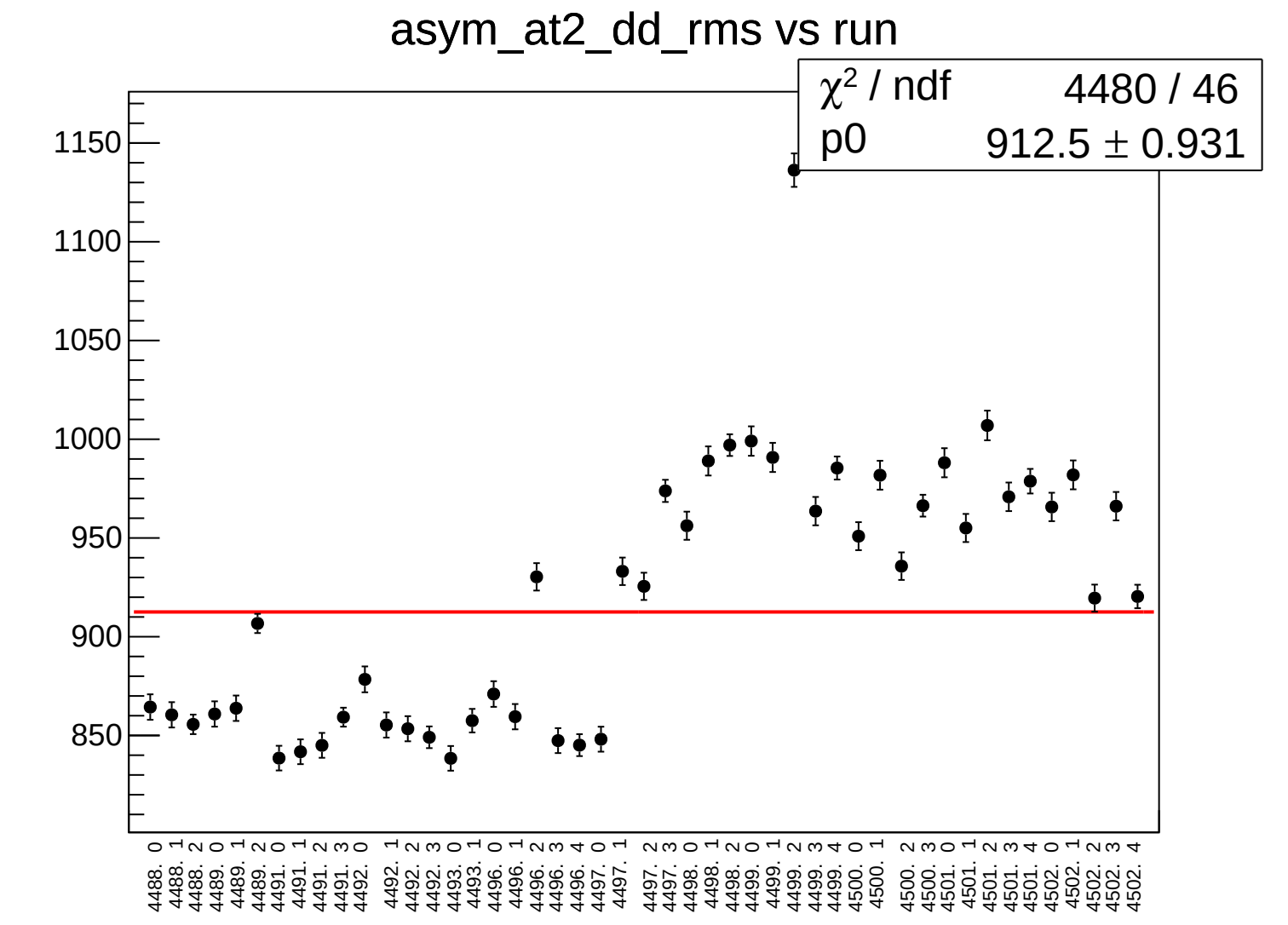

reg_asym_at2_dd_rms vs run
χ² / ndf 1330 / 46
p0 226.3 ± 0.2305
250
245
240
235
230
225
220
215
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

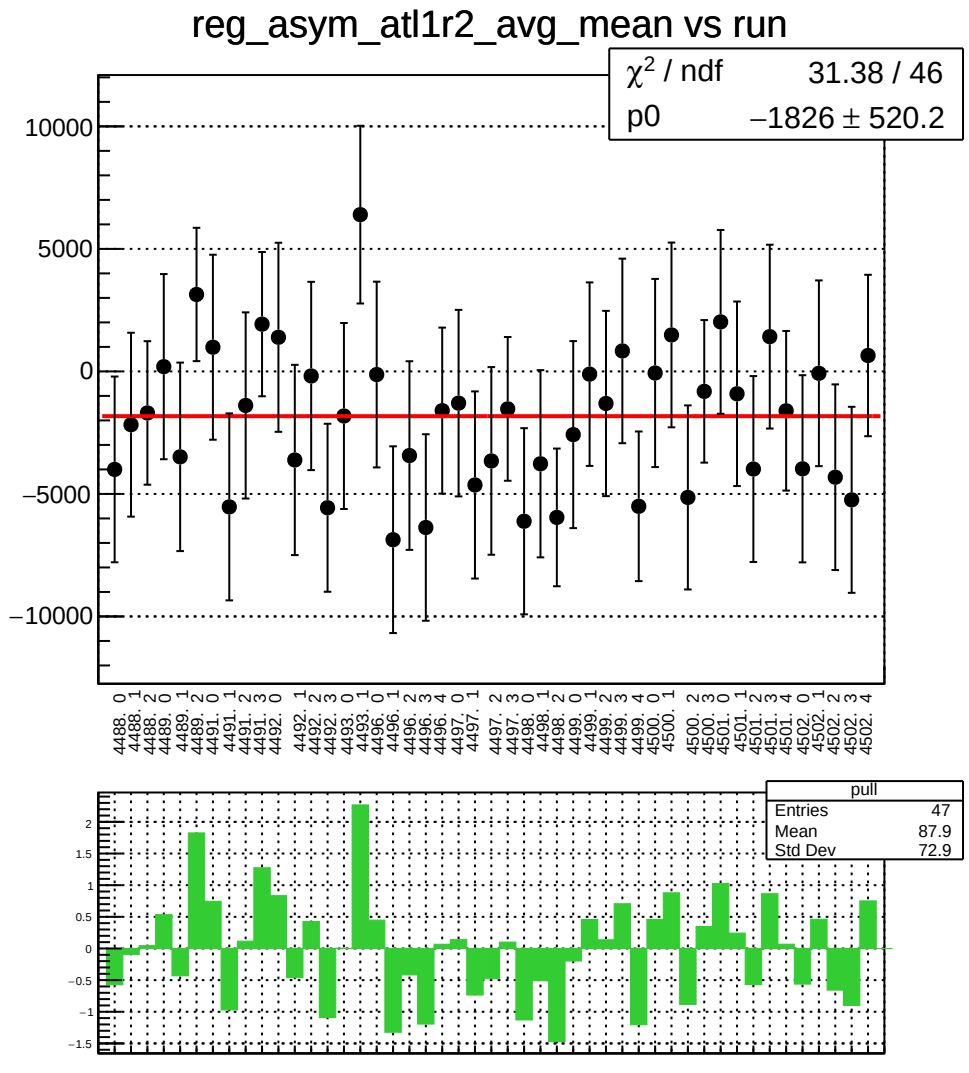

asym_at2_dd_correction_mean vs run
χ² / ndf 28.33 / 46
p0 593.6 ± 1274
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 303.8
Std Dev 273
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

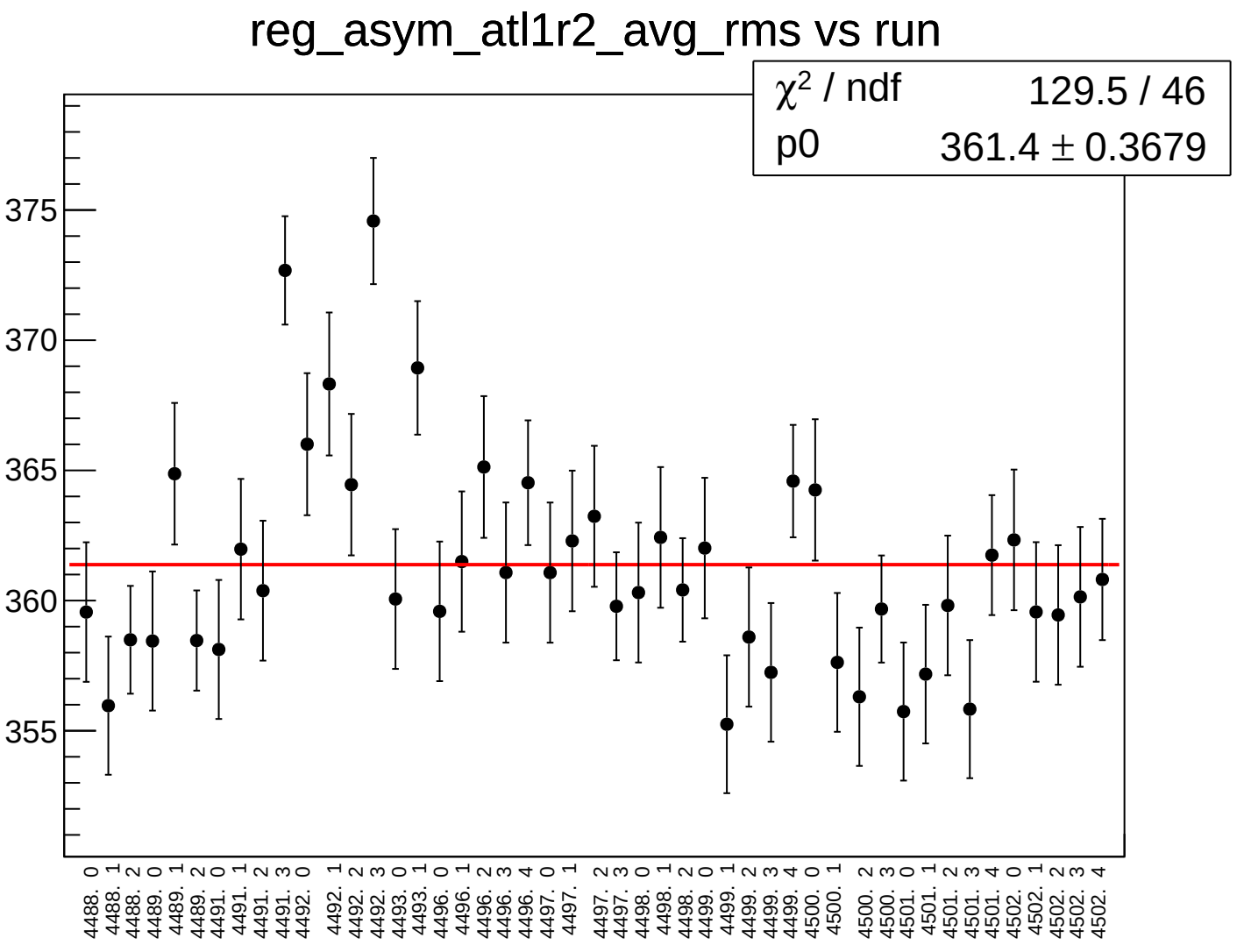

pull1D
Entries 47
Mean 0.005564
Std Dev 0.7764
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

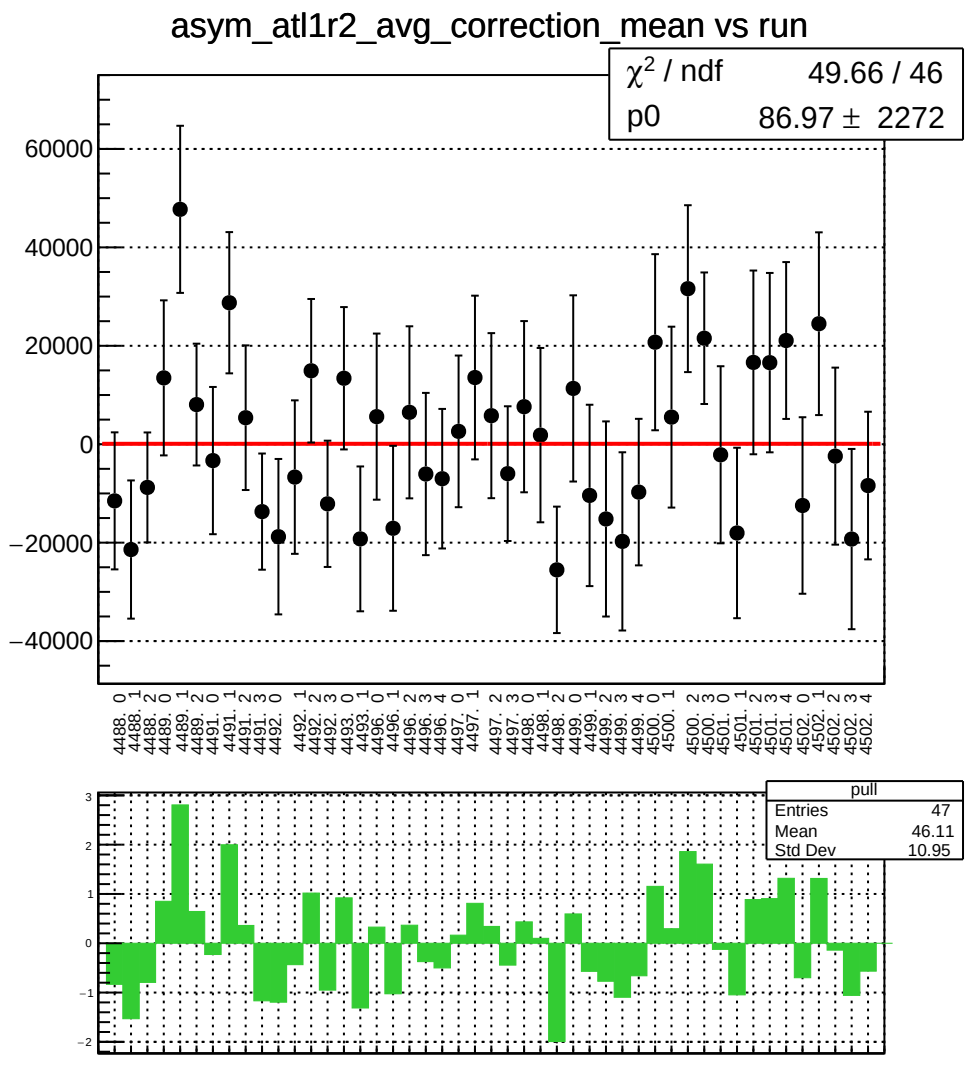

asym_at2_dd_correction_rms vs run
χ² / ndf 5207 / 46
p0 882.8 ± 0.901
1150
1100
1050
1000
950
900
850
800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

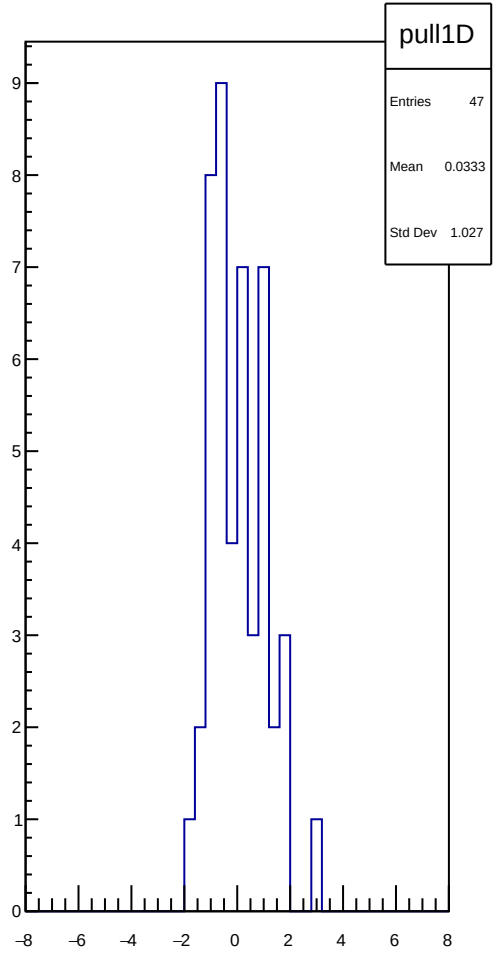

asym_at2_dd_mean vs run
χ² / ndf 20.99 / 46
p0 −1218 ± 1317
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 164.7
Std Dev 135.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 47
Mean −0.006777
Std Dev 0.6682
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

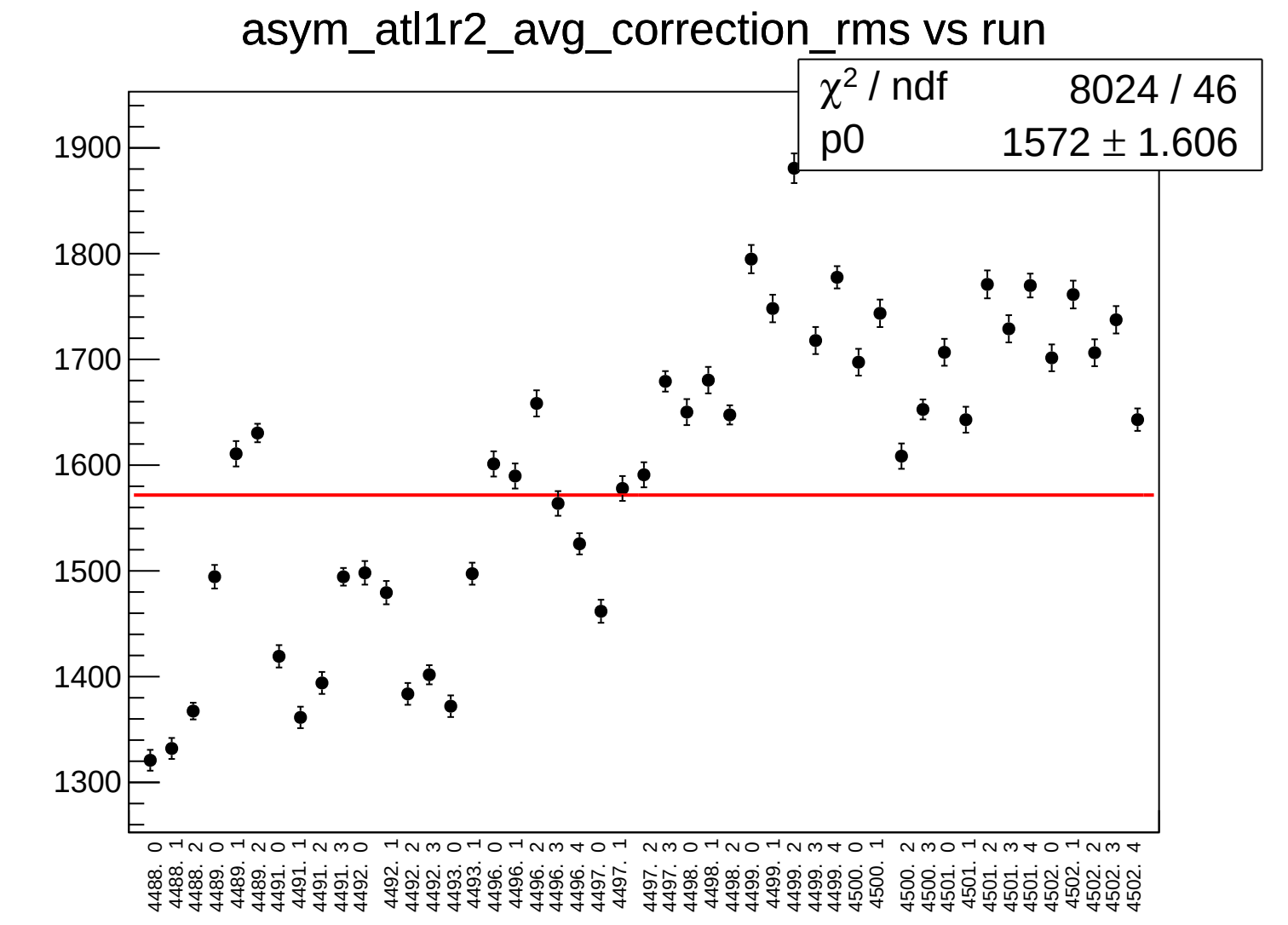

asym_at2_dd_rms vs run
χ² / ndf 4480 / 46
p0 912.5 ± 0.931
1150
1100
1050
1000
950
900
850
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

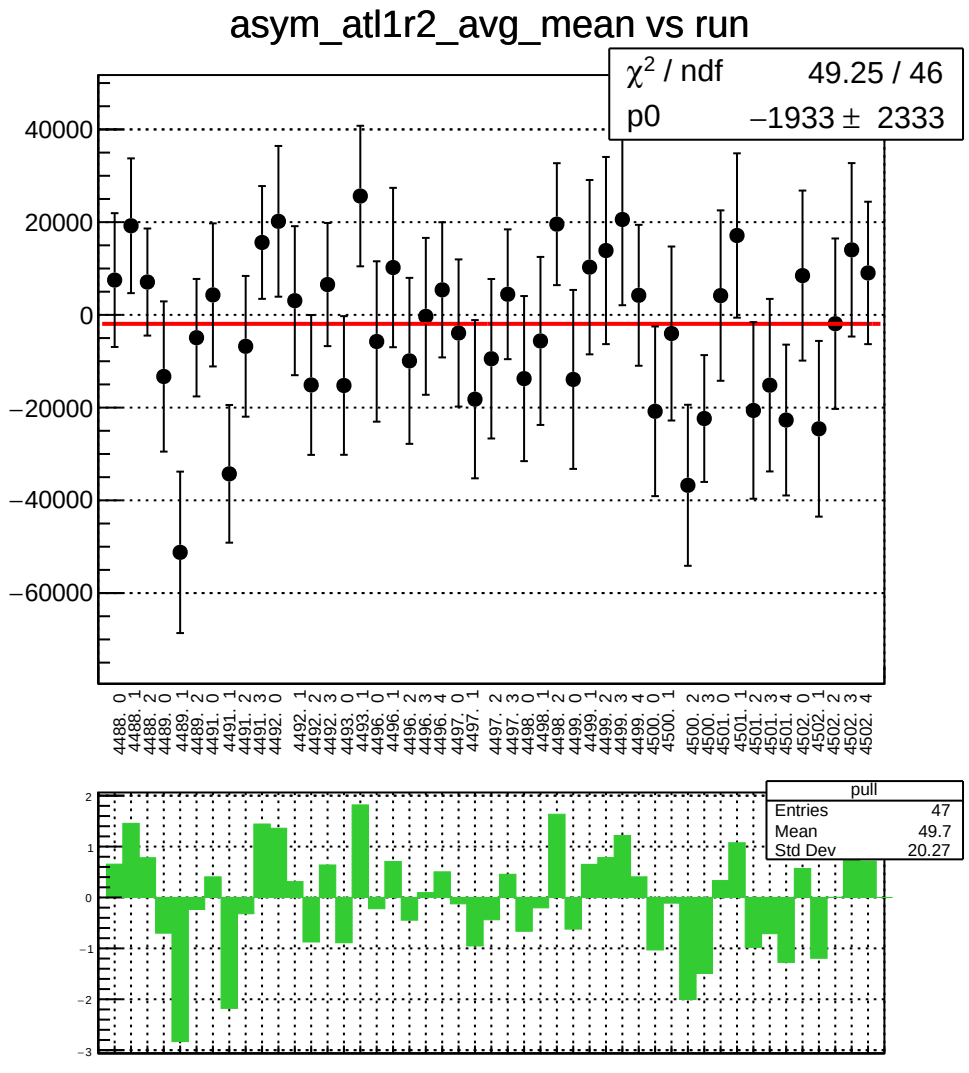

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 31.38 / 46
p0 −1826 ± 520.2
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 87.9
Std Dev 72.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.01319
Std Dev 0.817
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

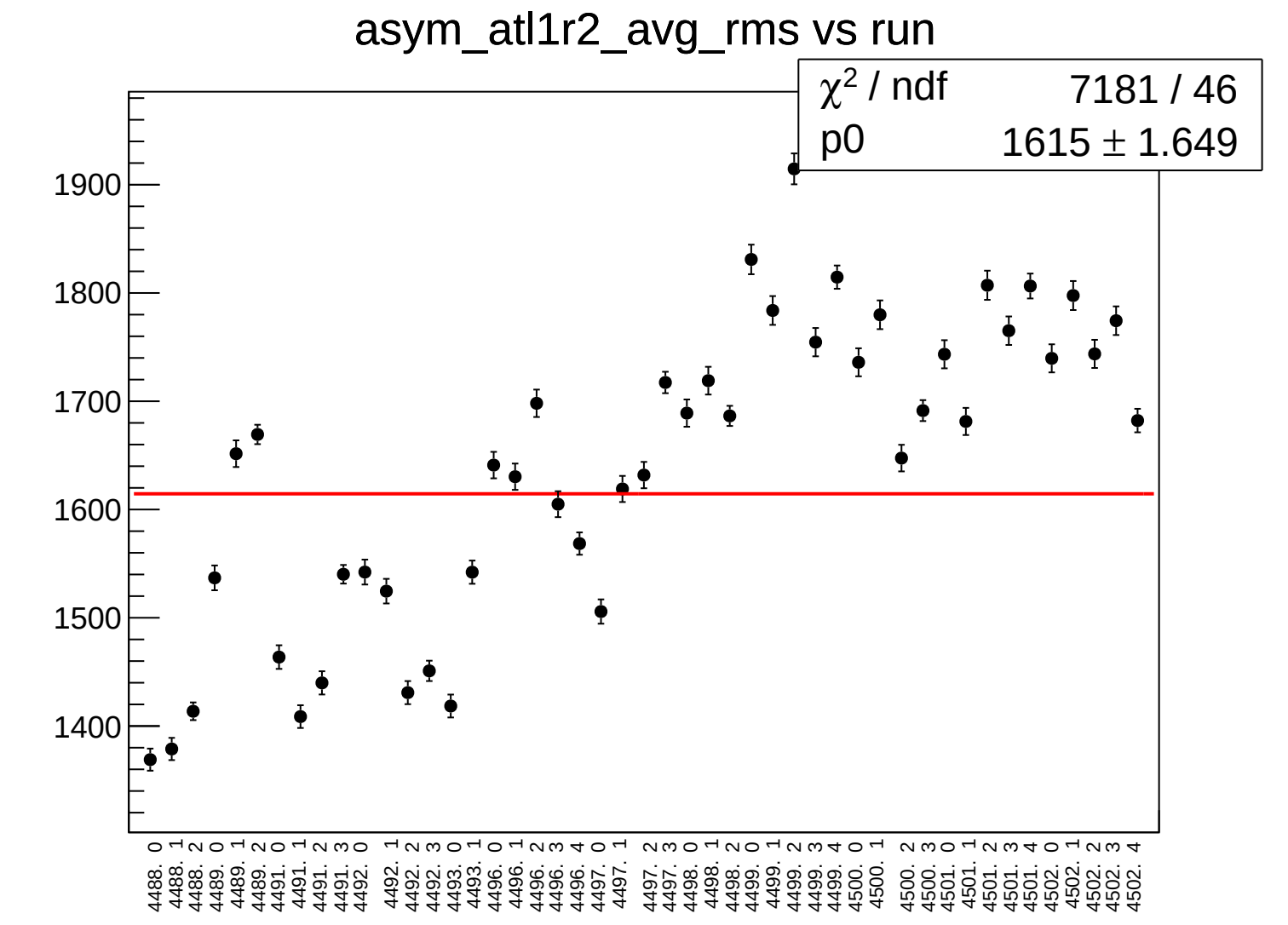

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 129.5 / 46
p0 361.4 ± 0.3679
375
370
365
360
355
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

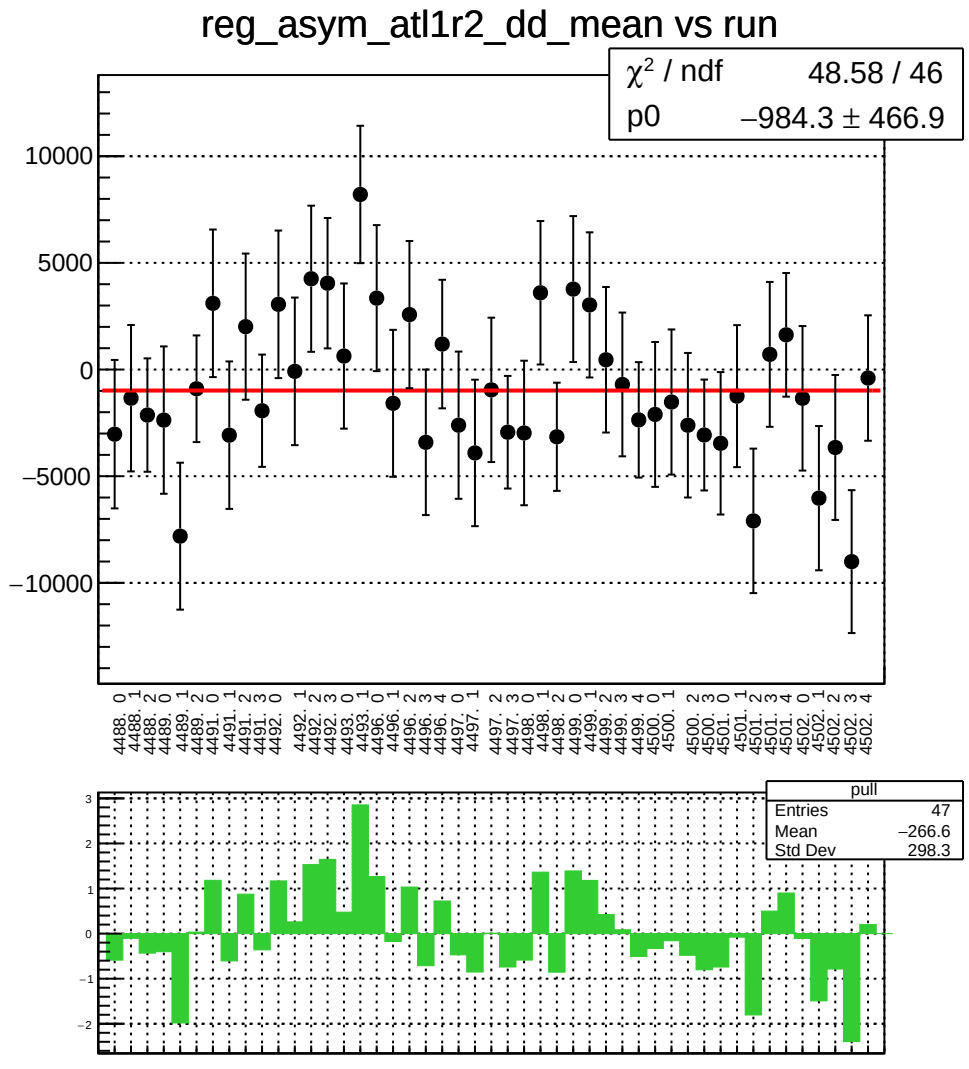

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 49.66 / 46
p0 86.97 ± 2272
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 46.11
Std Dev 10.95
3
2
1
0
−1
−2

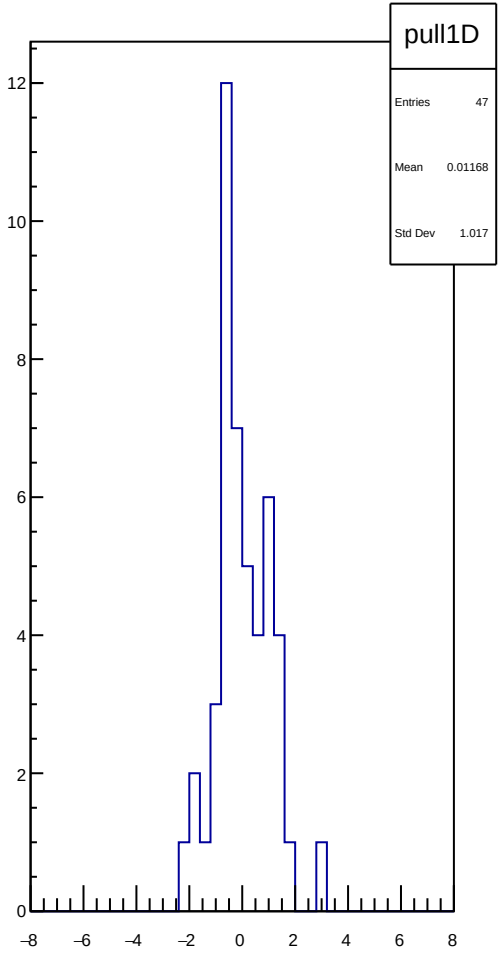

pull1D
Entries 47
Mean 0.0333
Std Dev 1.027
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

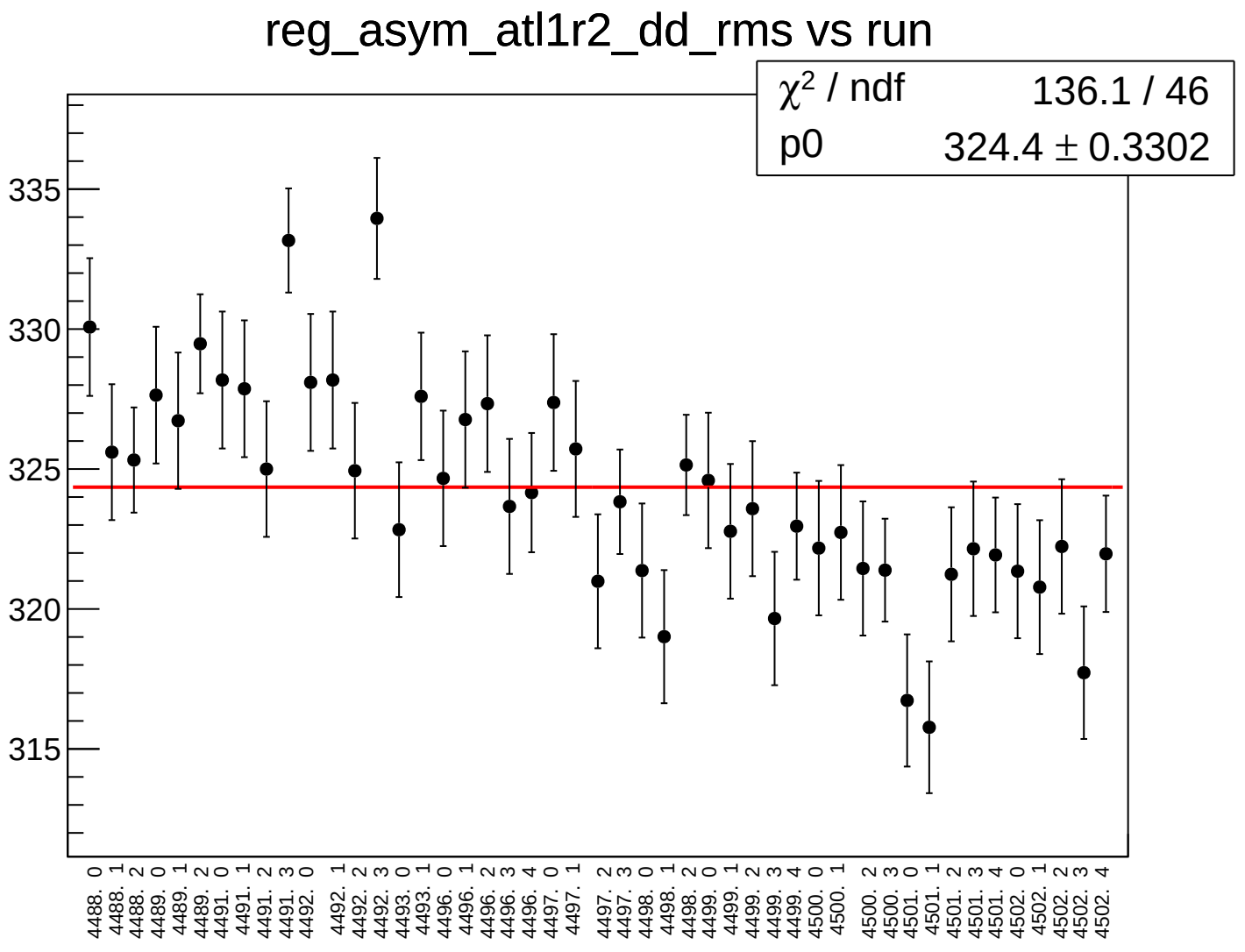

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 8024 / 46
p0 1572 ± 1.606
1900
1800
1700
1600
1500
1400
1300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

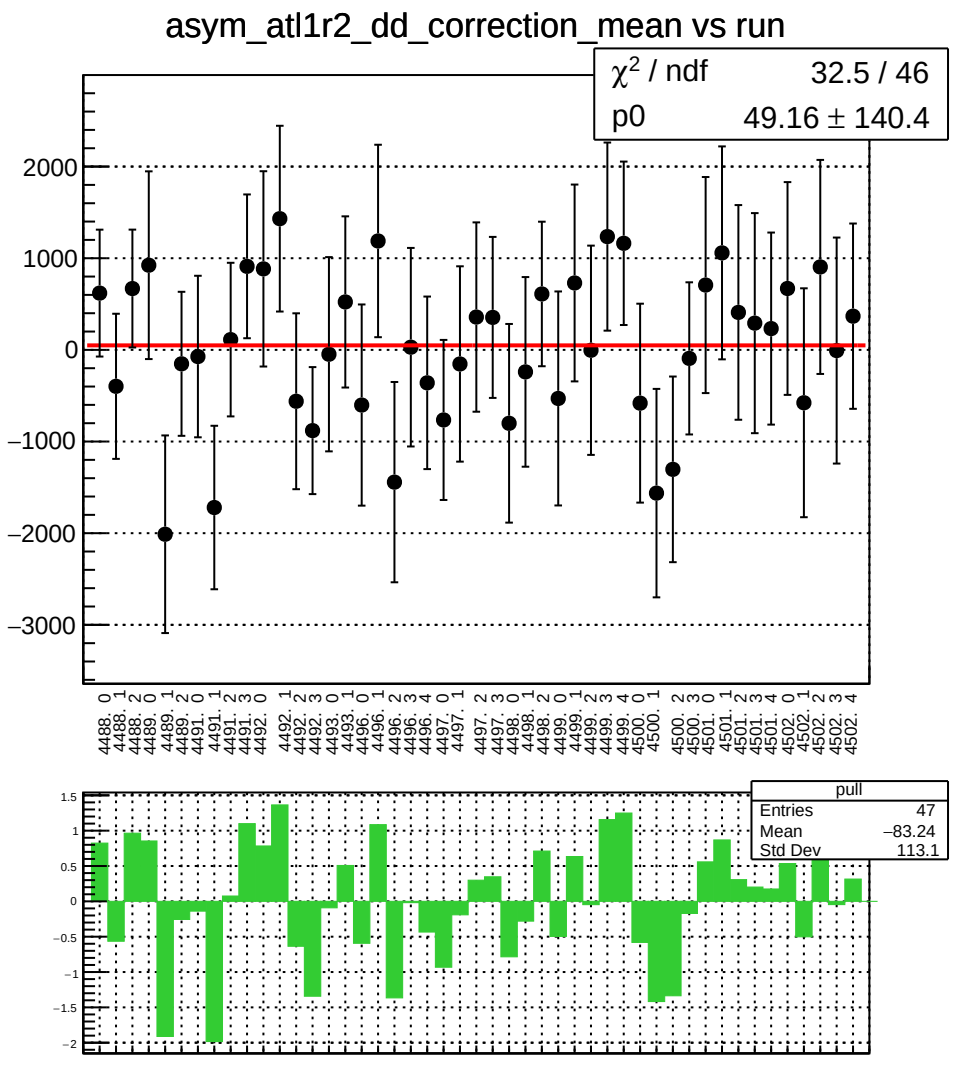

asym_atl1r2_avg_mean vs run
χ² / ndf 49.25 / 46
p0 −1933 ± 2333
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 49.7
Std Dev 20.27
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean −0.03478
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

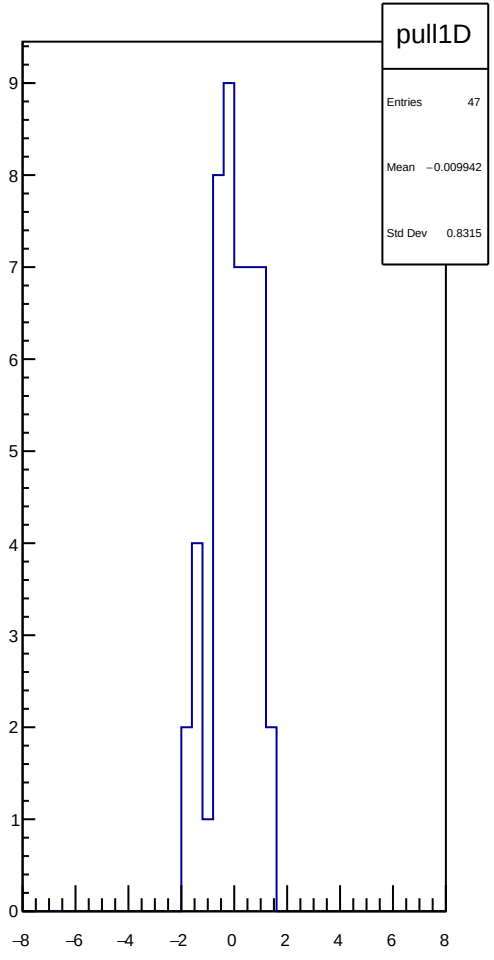

asym_atl1r2_avg_rms vs run
χ^2 / ndf 7181 / 46
p0 1615 ± 1.649
1900
1800
1700
1600
1500
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

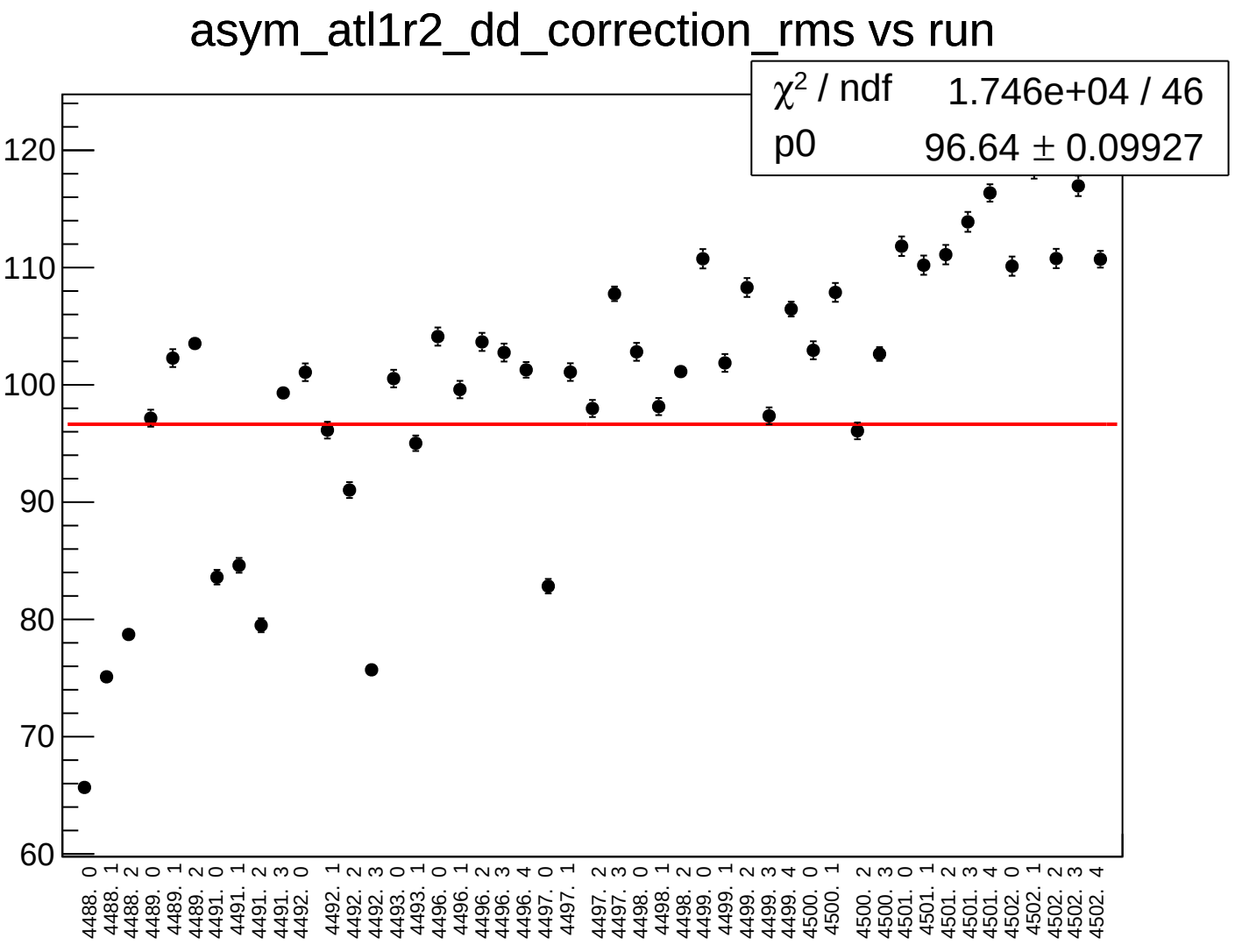

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 48.58 / 46
p0 −984.3 ± 466.9
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −266.6
Std Dev 298.3
3
2
1
0
−1
−2

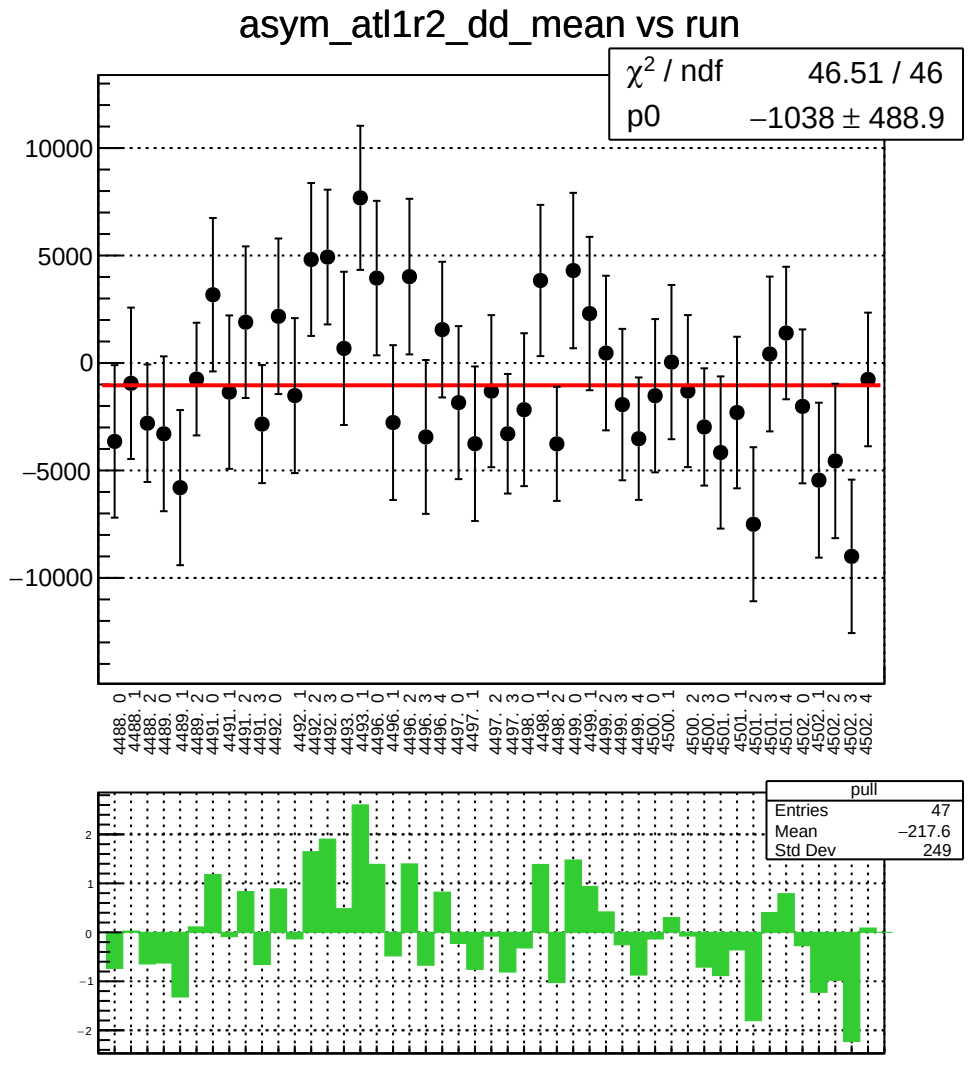

pull1D
Entries 47
Mean 0.01168
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

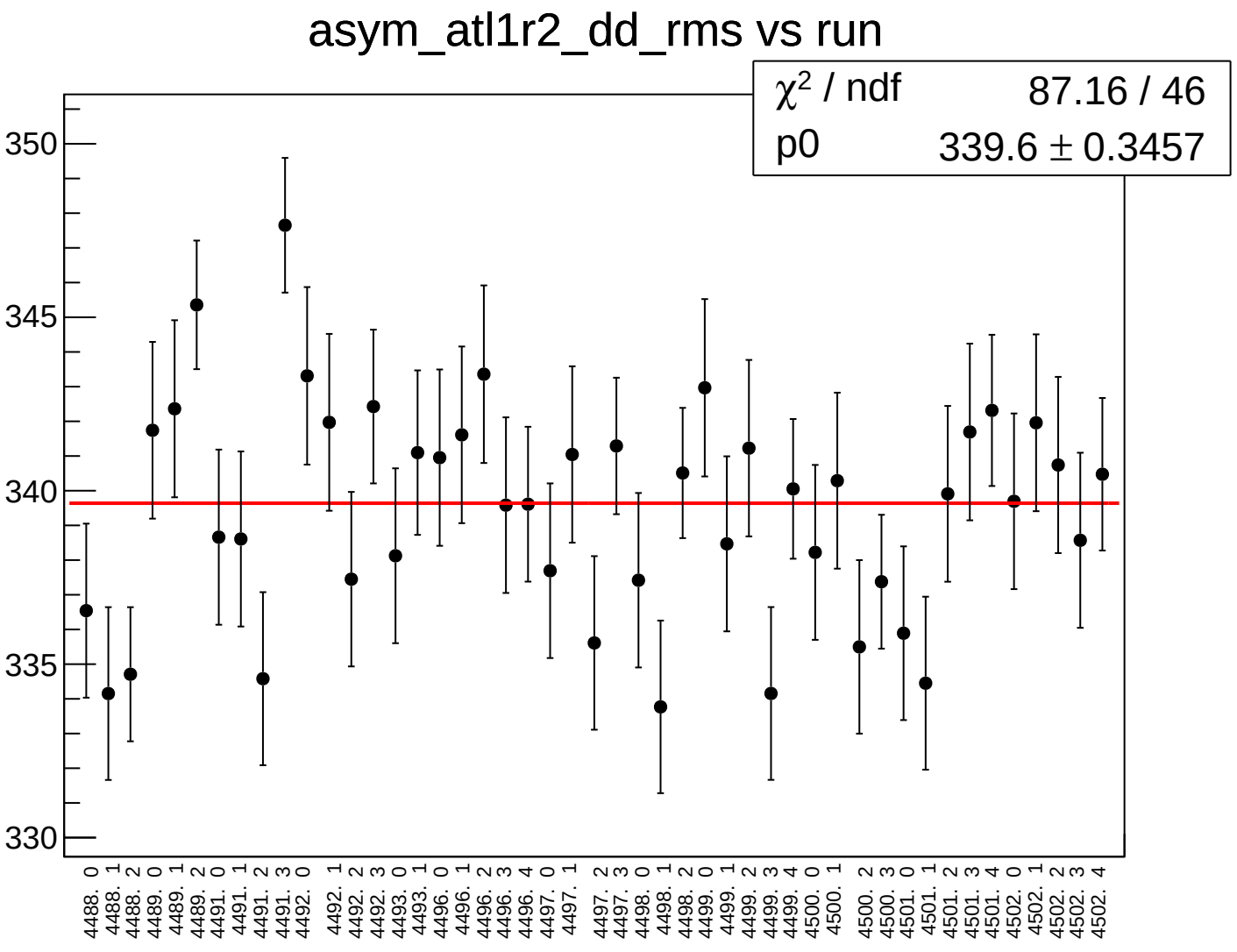

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 136.1 / 46
p0 324.4 ± 0.3302
335
330
325
320
315
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

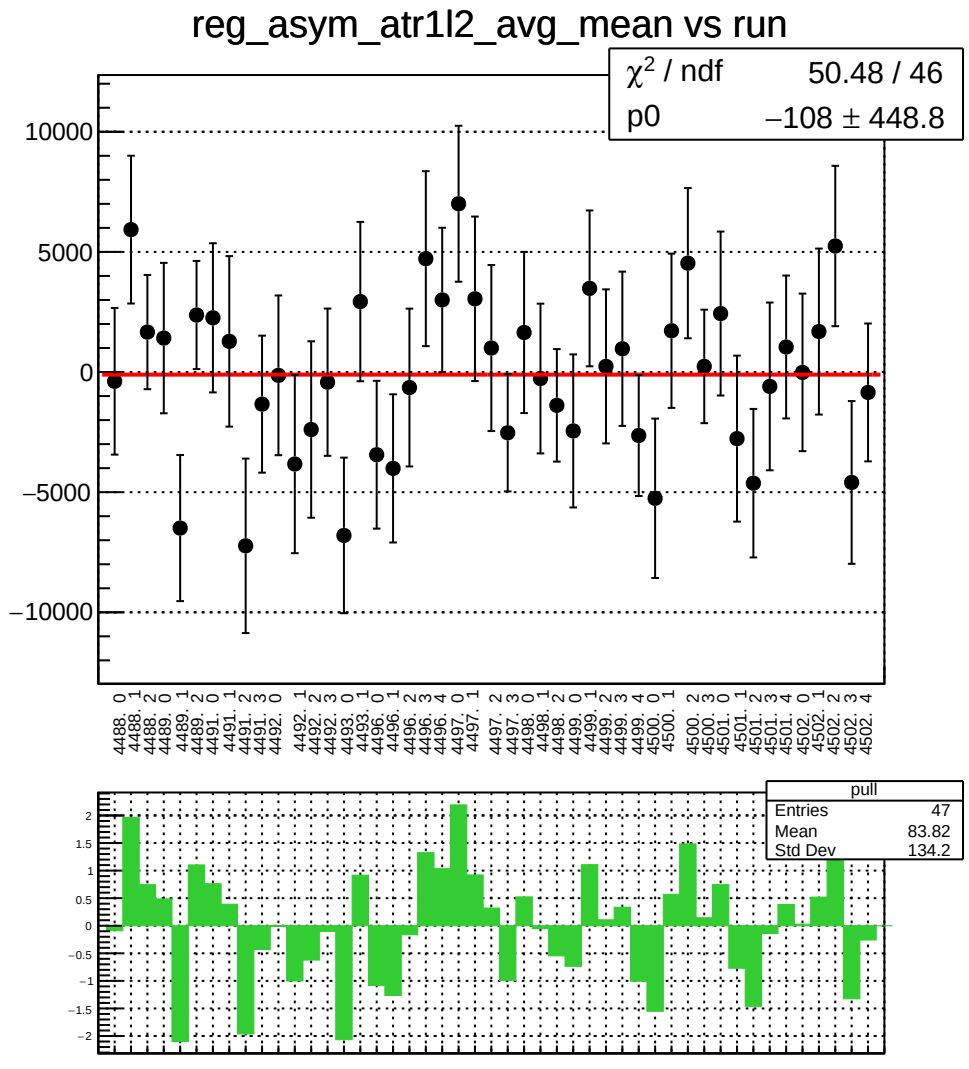

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 32.5 / 46
p0 49.16 ± 140.4
2000
1000
0
−1000
−2000
−3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −83.24
Std Dev 113.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

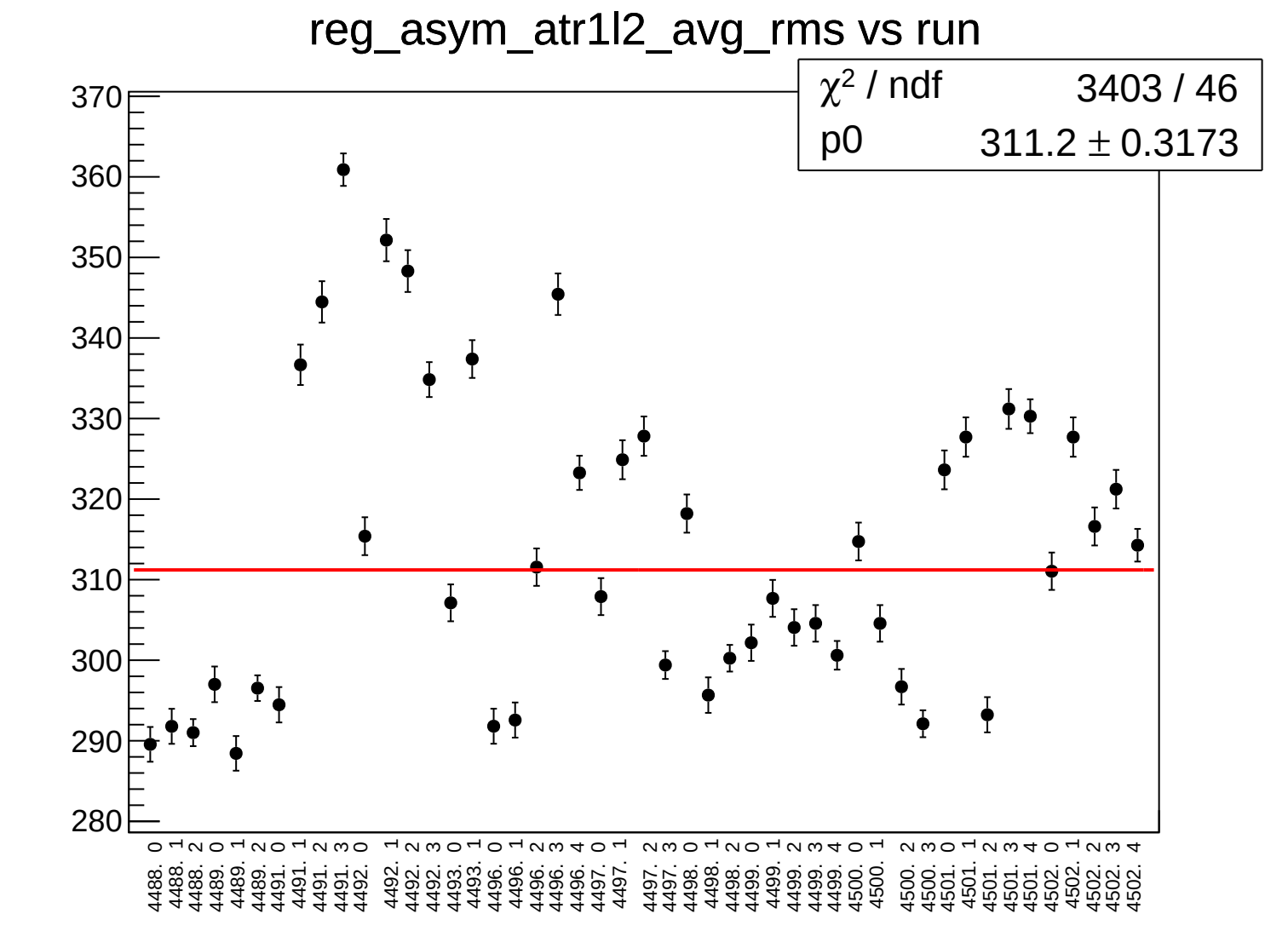

pull1D
Entries 47
Mean −0.009942
Std Dev 0.8315
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

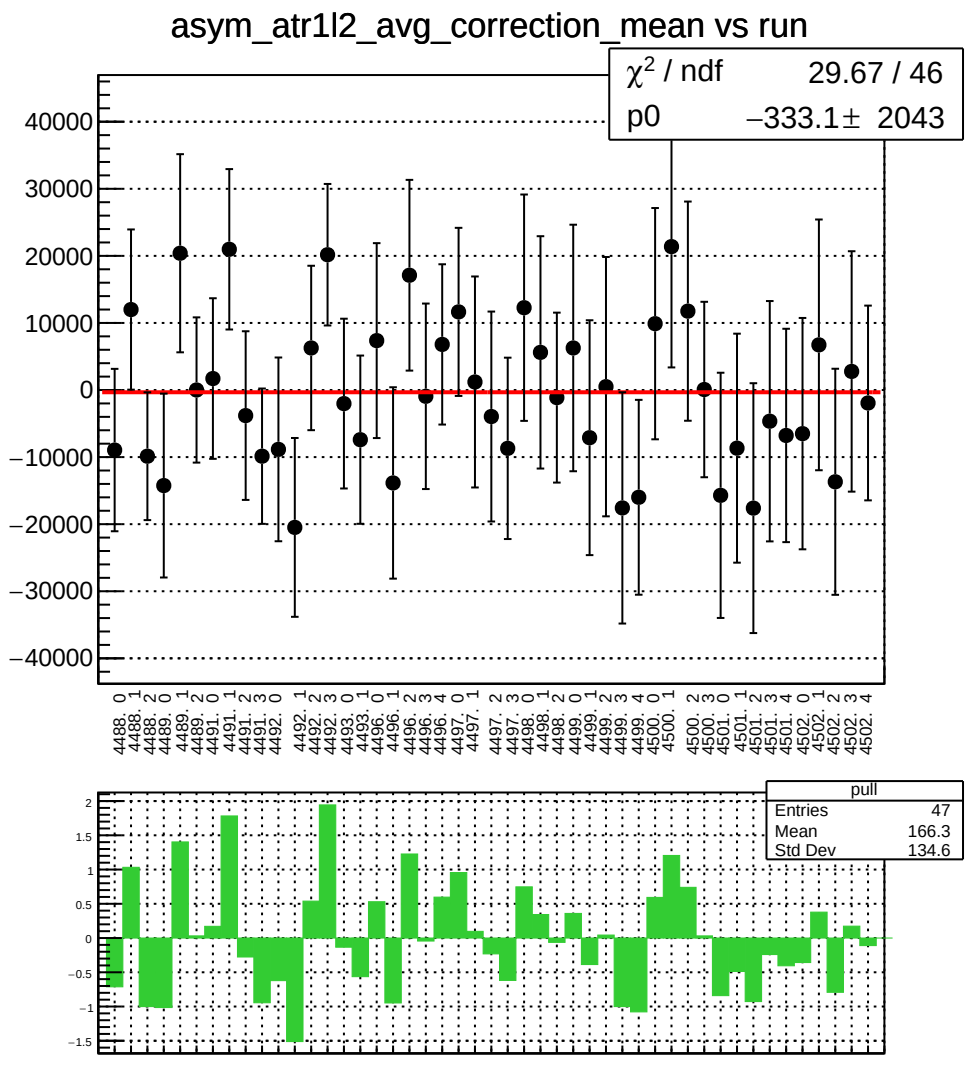

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.746e+04 / 46
p0 96.64 ± 0.09927
120
110
100
90
80
70
60
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

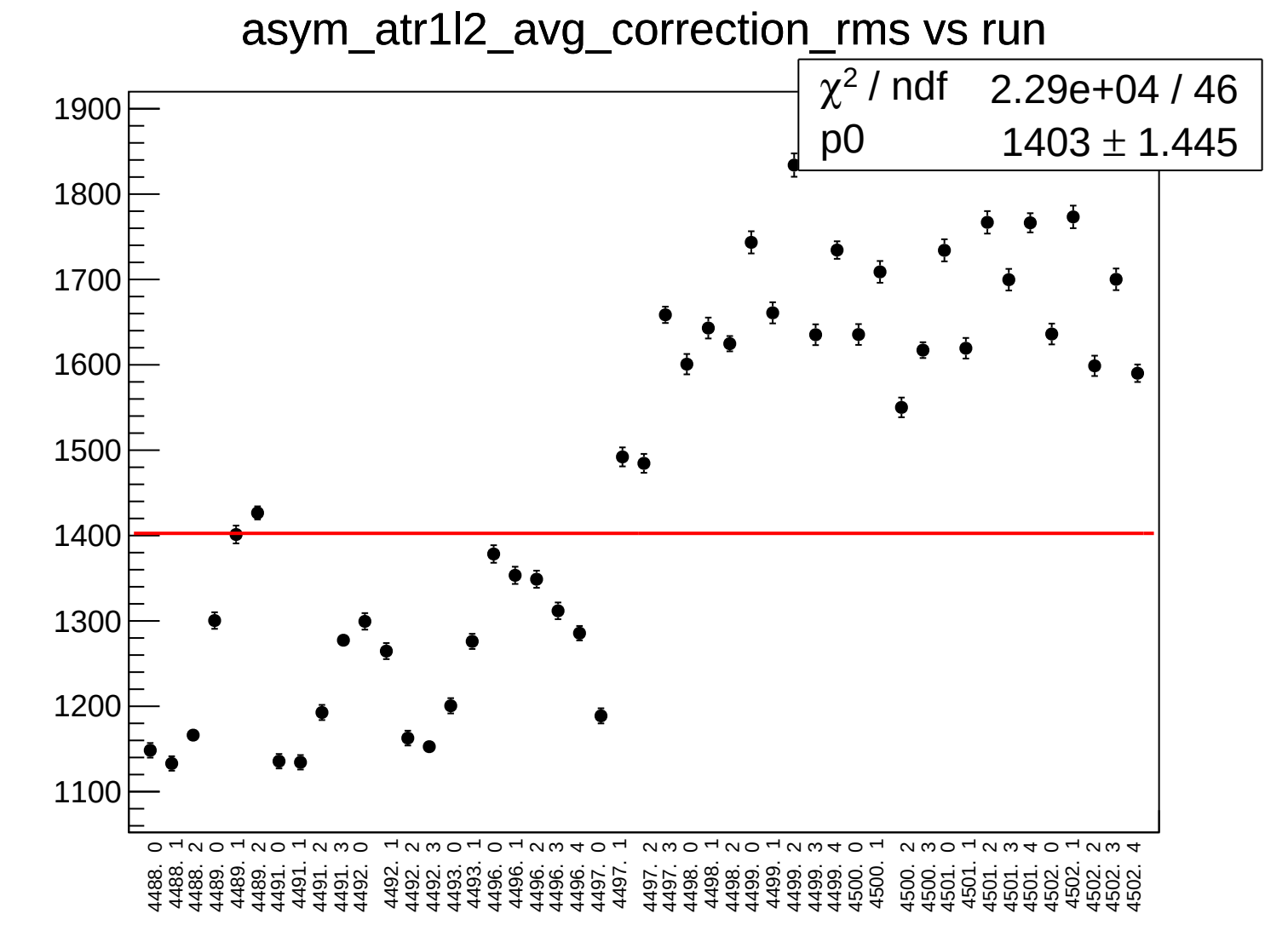

asym_atl1r2_dd_mean vs run
χ² / ndf 46.51 / 46
p0 −1038 ± 488.9
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −217.6
Std Dev 249
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.01478
Std Dev 0.9946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

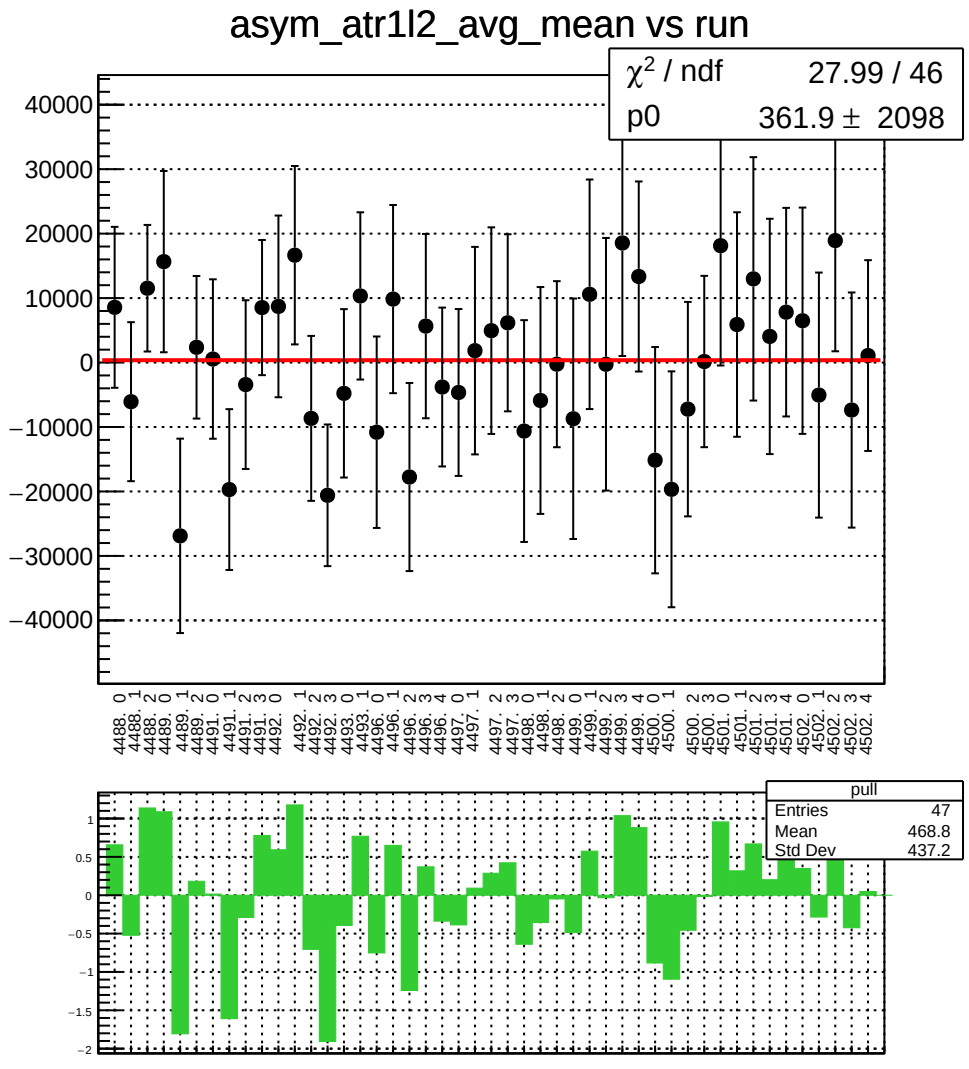

asym_atl1r2_dd_rms vs run
χ² / ndf 87.16 / 46
p0 339.6 ± 0.3457
350
345
340
335
330
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

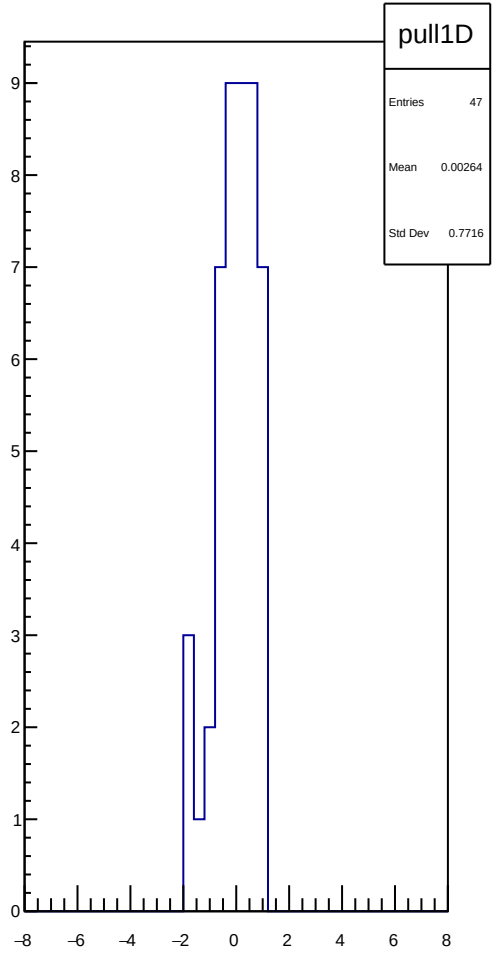

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 50.48 / 46
p0 −108 ± 448.8
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 83.82
Std Dev 134.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.0005283
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

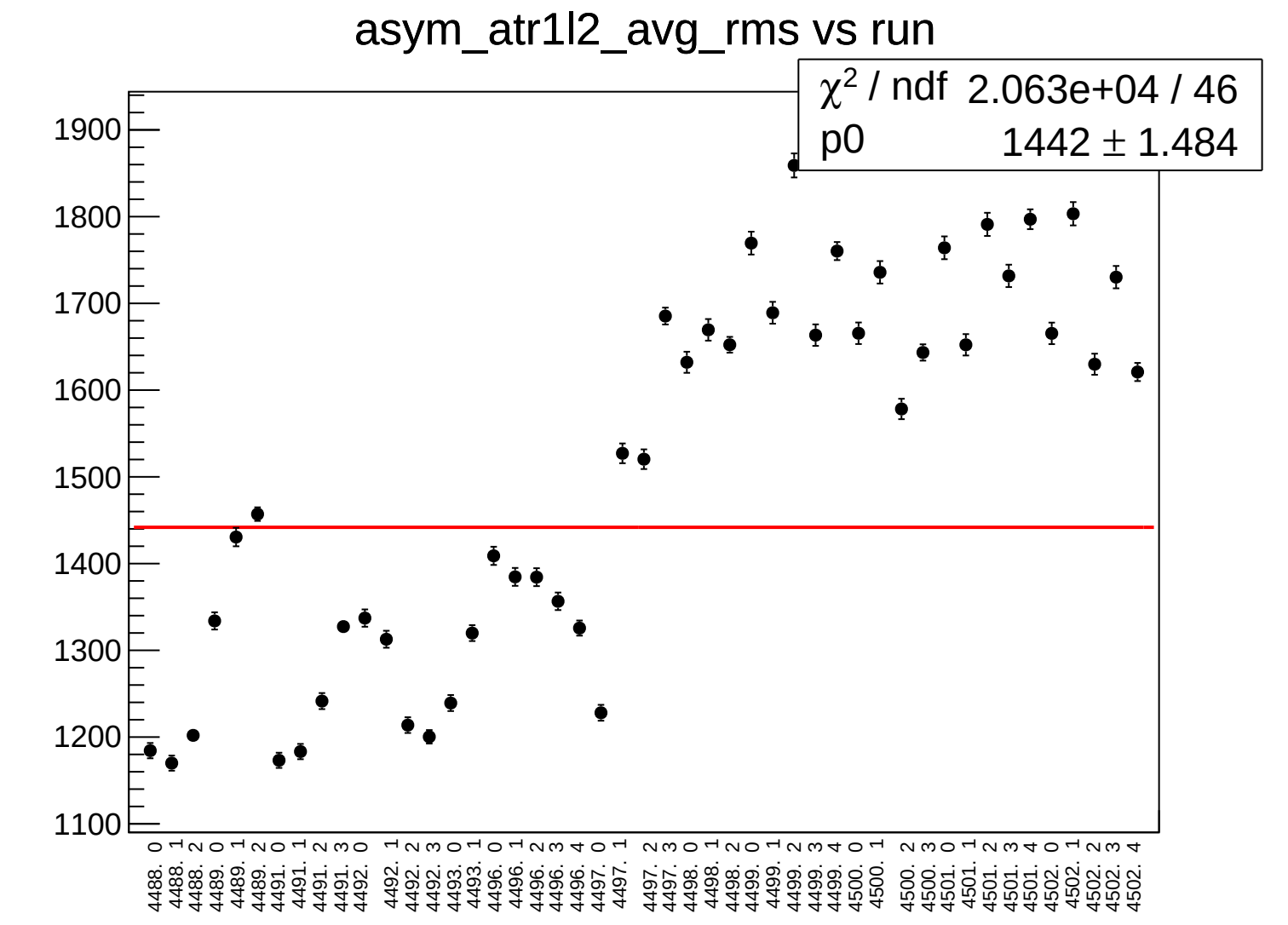

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 3403 / 46
p0 311.2 ± 0.3173
370
360
350
340
330
320
310
300
290
280
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

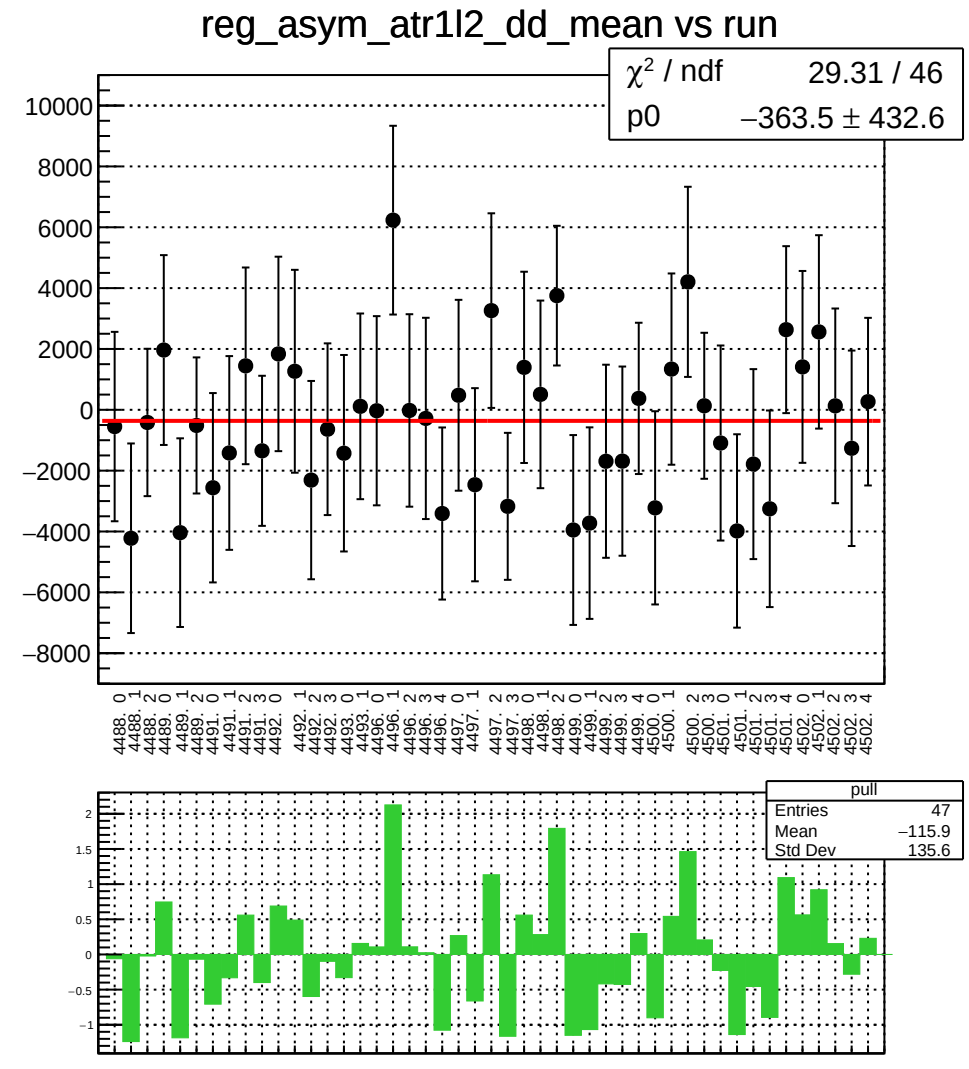

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 29.67 / 46
p0 −333.1± 2043
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 166.3
Std Dev 134.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.00823
Std Dev 0.7945
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

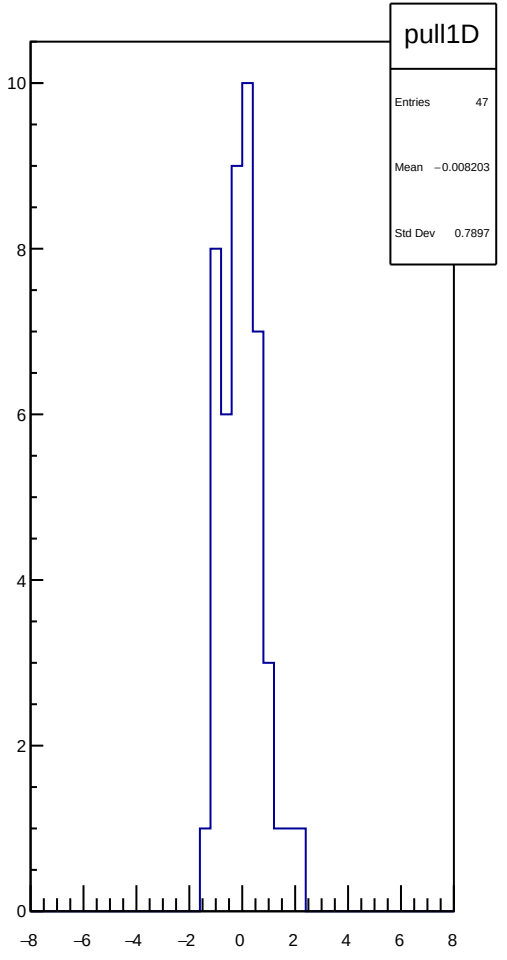

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.29e+04 / 46
p0 1403 ± 1.445
1900
1800
1700
1600
1500
1400
1300
1200
1100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

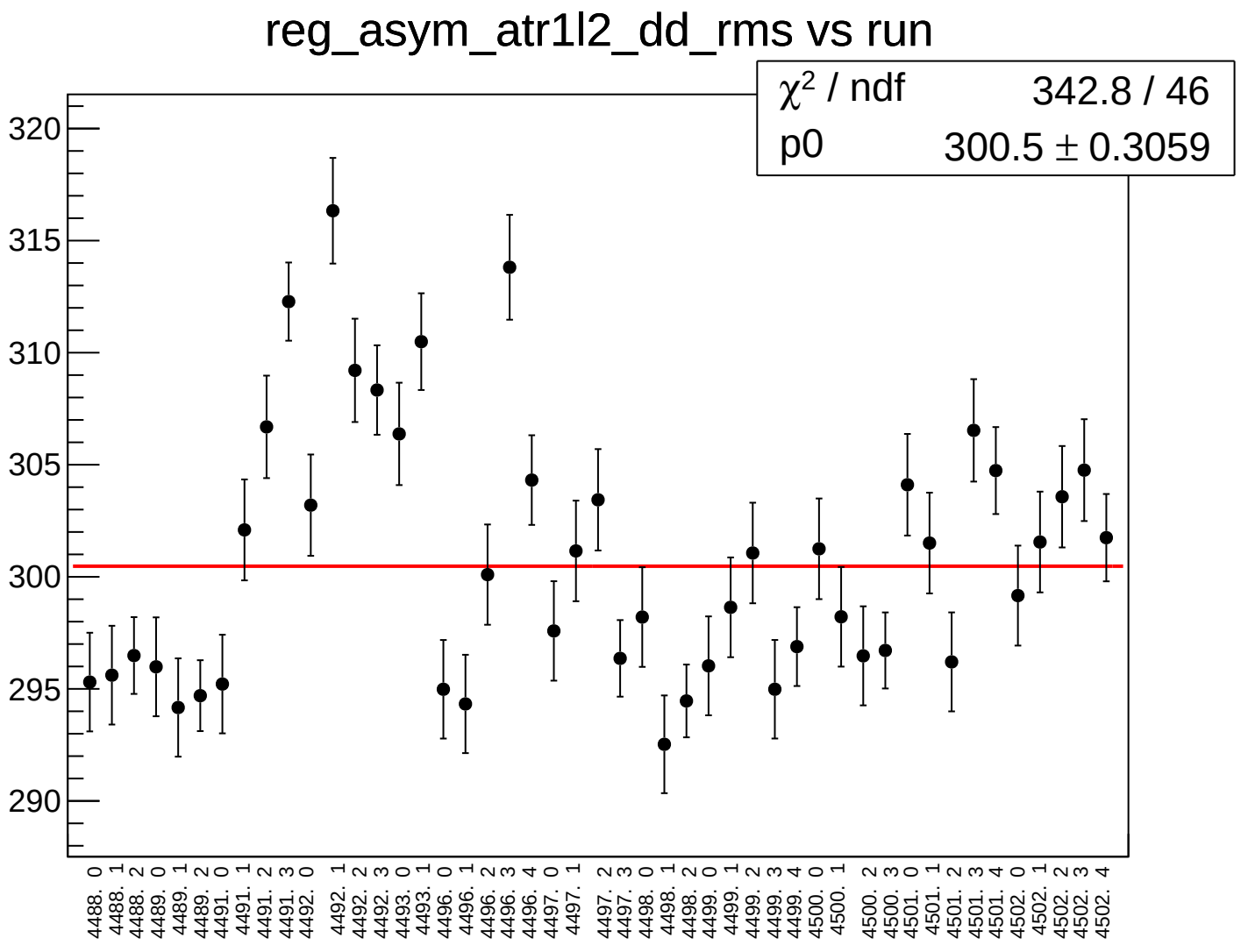

asym_atr1l2_avg_mean vs run
χ² / ndf 27.99 / 46
p0 361.9 ± 2098
pull
Entries 47
Mean 468.8
Std Dev 437.2

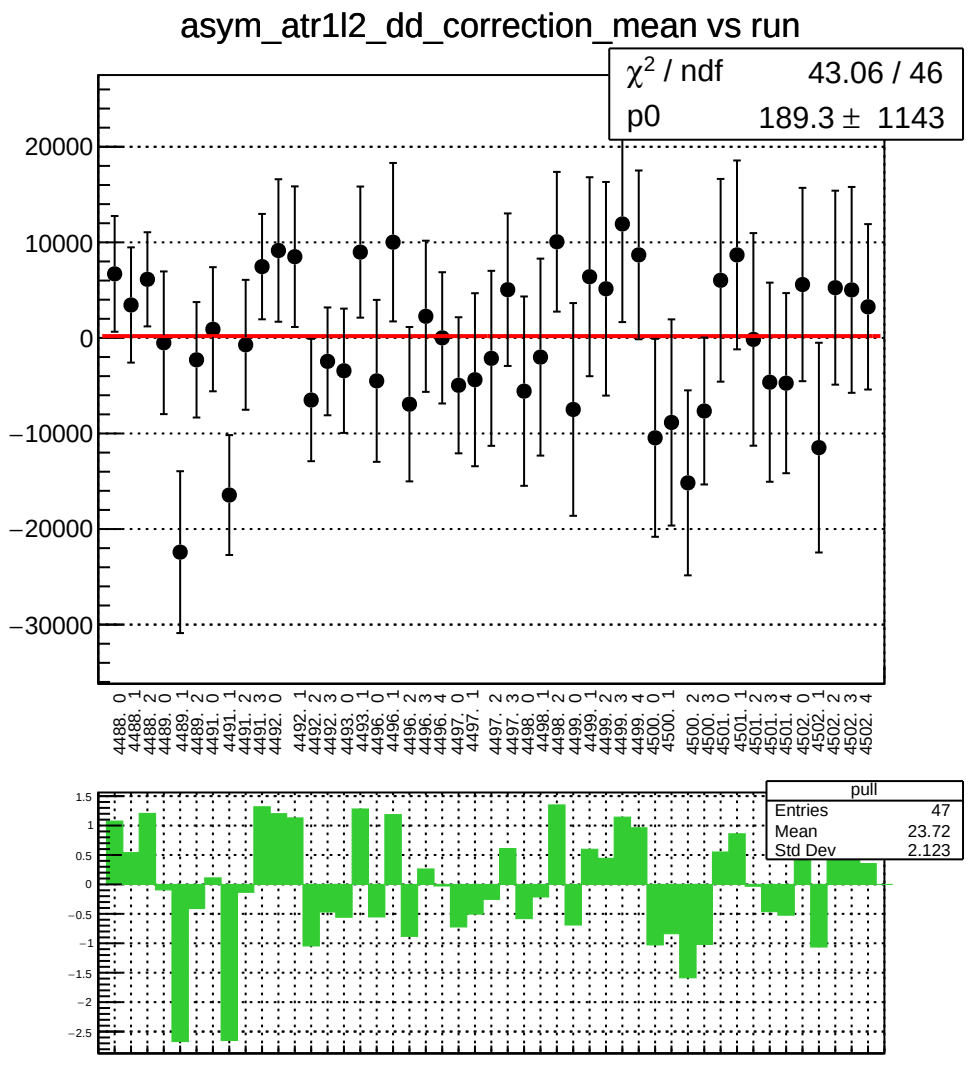

pull1D
Entries 47
Mean 0.00264
Std Dev 0.7716

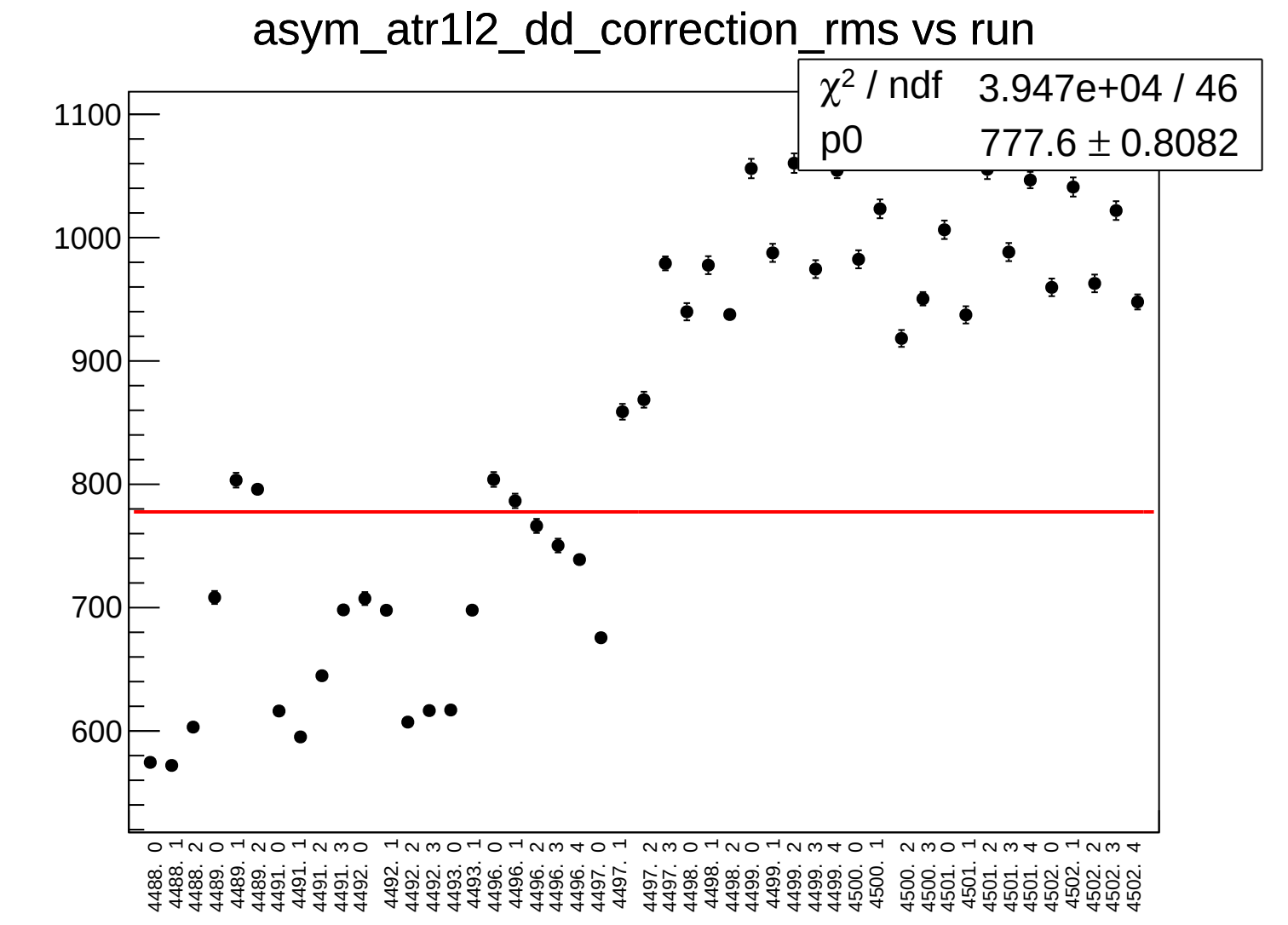

asym_atr1l2_avg_rms vs run
χ² / ndf 2.063e+04 / 46
p0 1442 ± 1.484
1900
1800
1700
1600
1500
1400
1300
1200
1100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

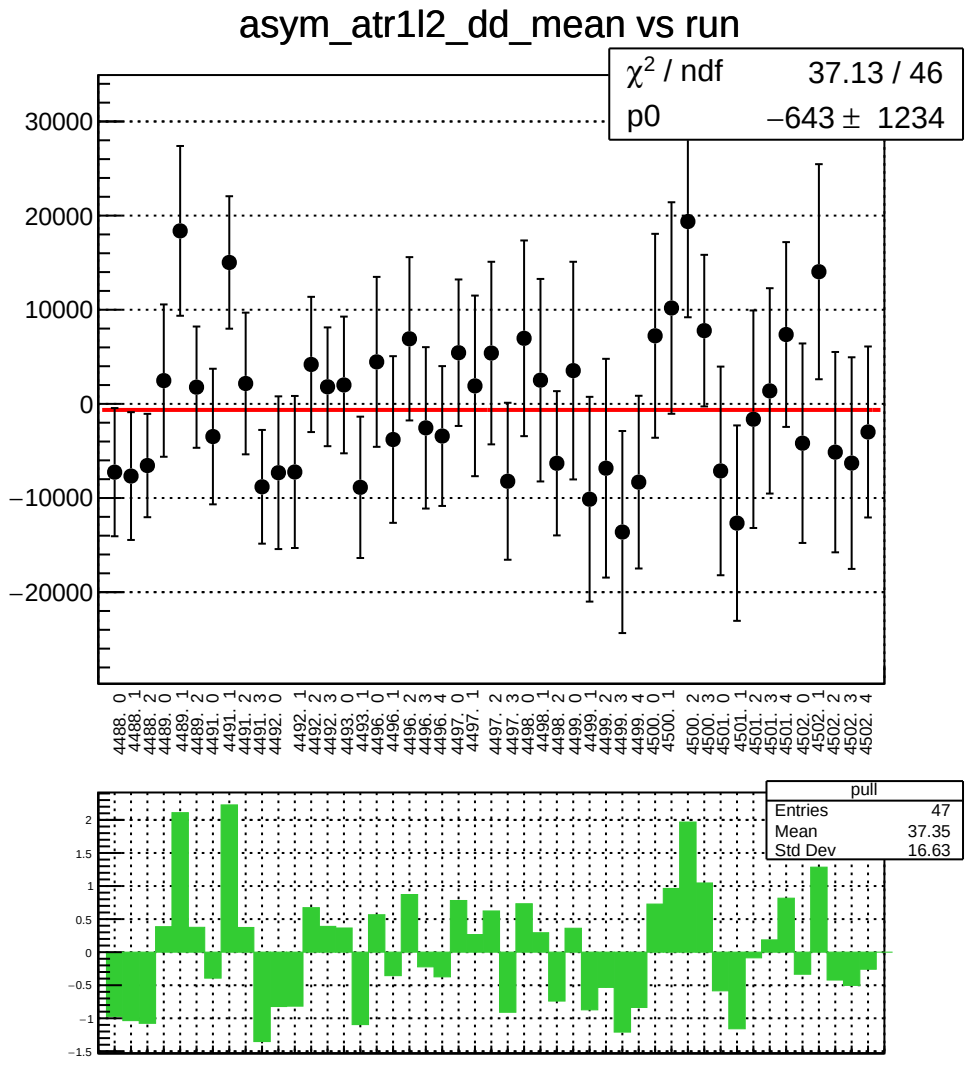

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 29.31 / 46
p0 −363.5 ± 432.6
pull
Entries 47
Mean −115.9
Std Dev 135.6

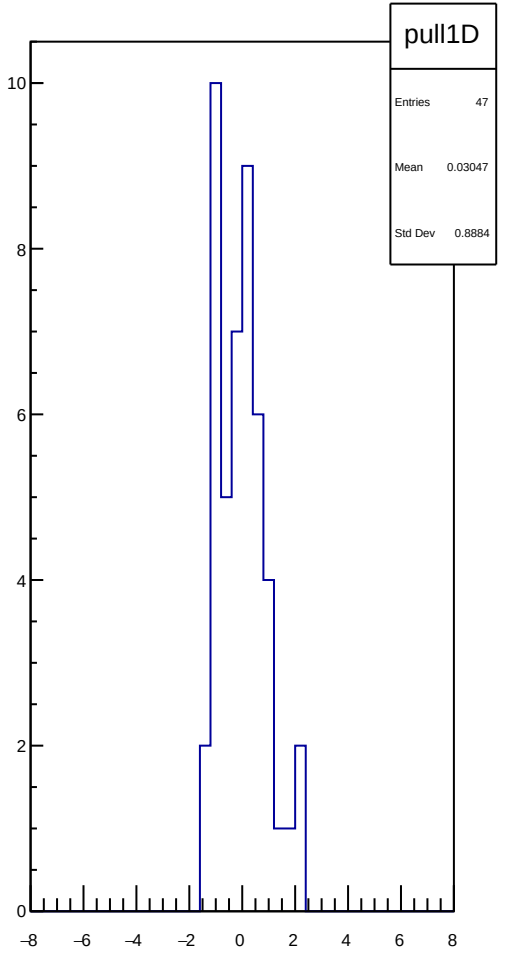

pull1D
Entries 47
Mean −0.008203
Std Dev 0.7897

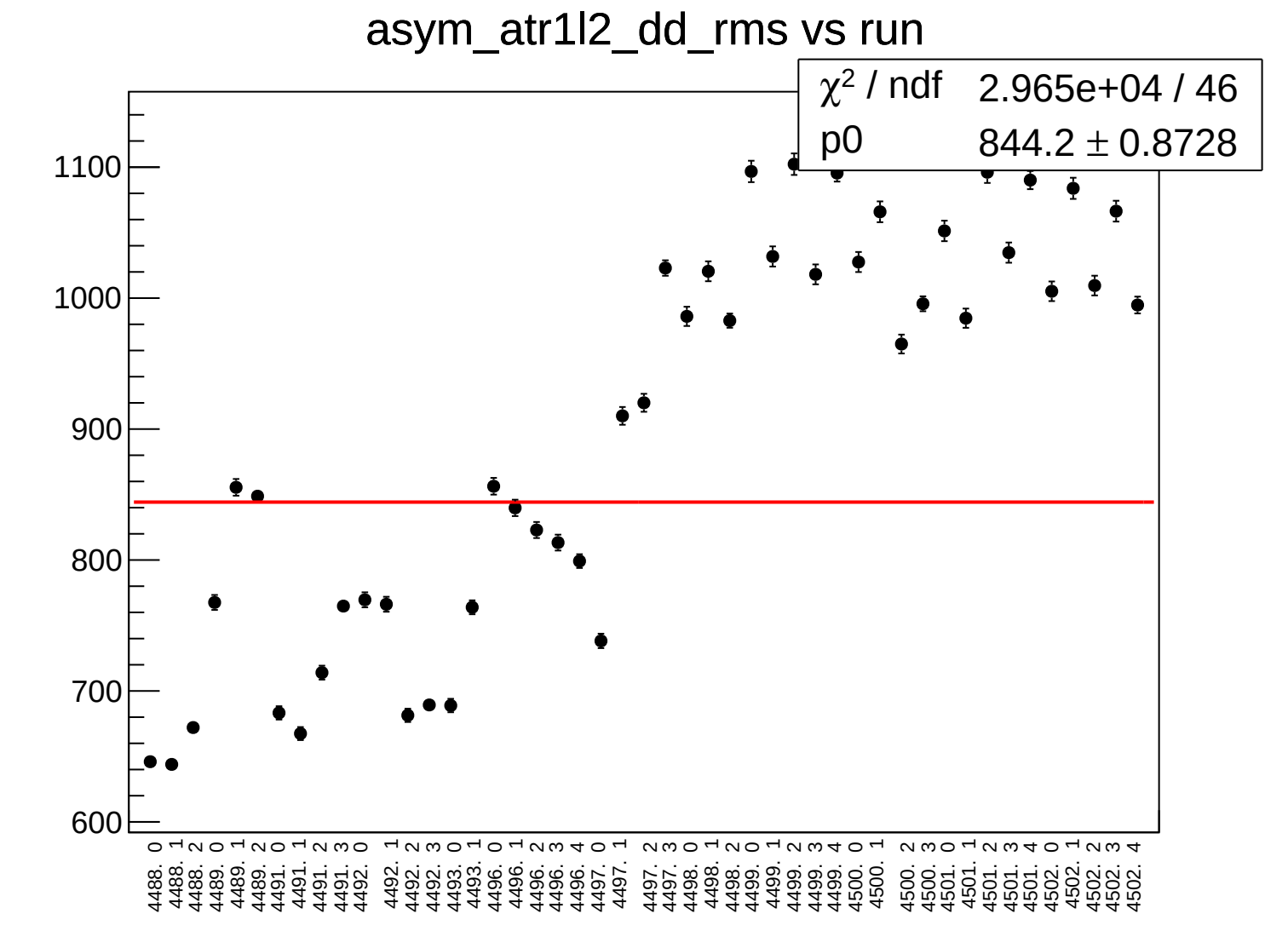

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 342.8 / 46
p0 300.5 ± 0.3059
320
315
310
305
300
295
290
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 43.06 / 46
p0 189.3 ± 1143
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 23.72
Std Dev 2.123
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean −0.0286
Std Dev 0.9568
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3.947e+04 / 46
p0 777.6 ± 0.8082
1100
1000
900
800
700
600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_atr1l2_dd_mean vs run
χ² / ndf 37.13 / 46
p0 −643 ± 1234
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 37.35
Std Dev 16.63
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 47
Mean 0.03047
Std Dev 0.8884
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 2.965e+04 / 46
p0 844.2 ± 0.8728
1100
1000
900
800
700
600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
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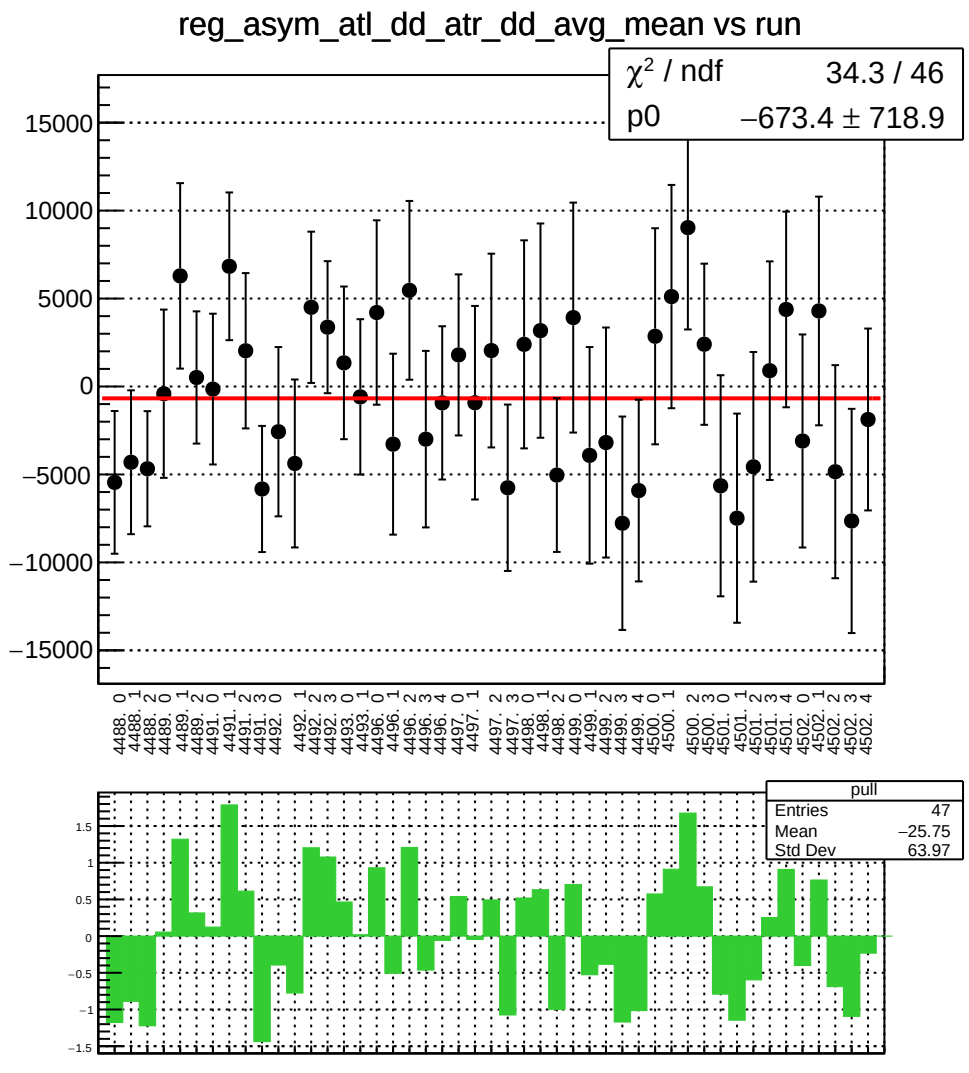
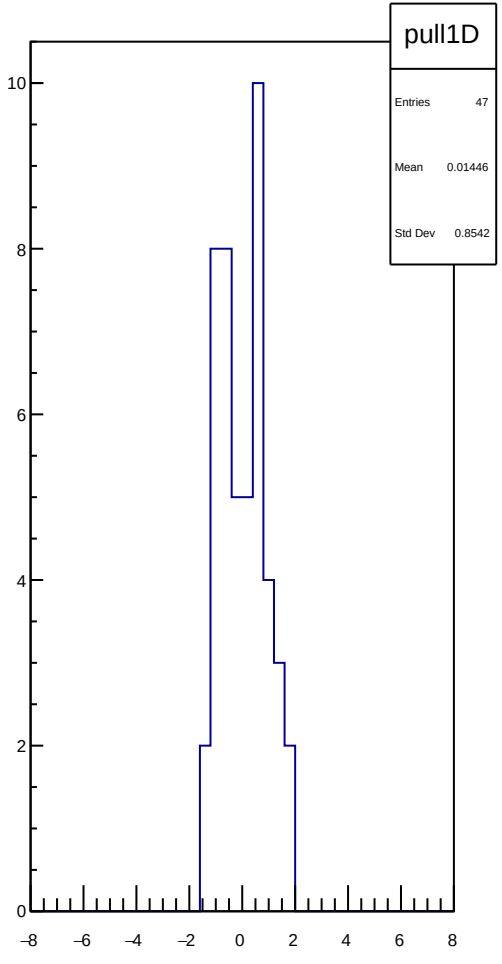
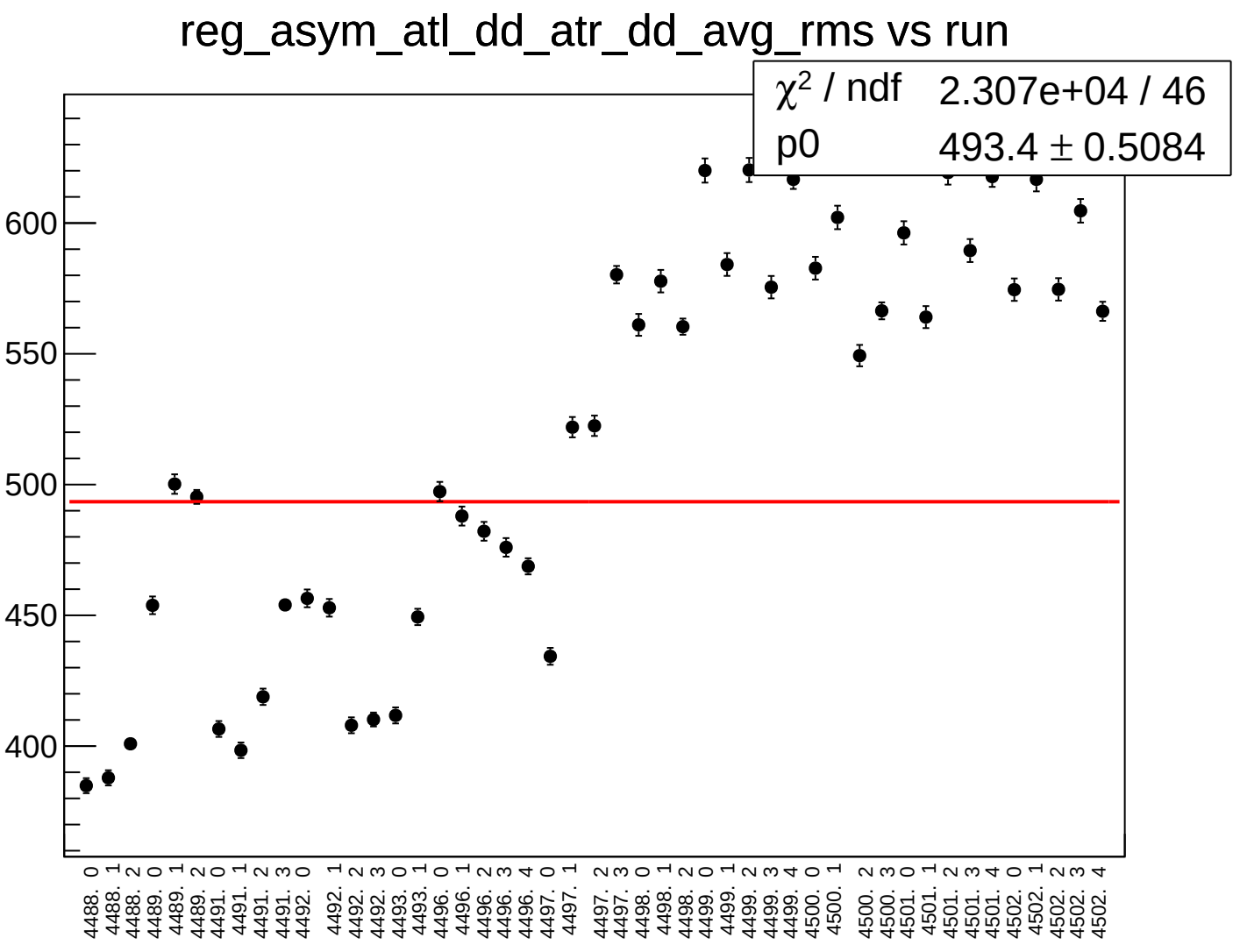
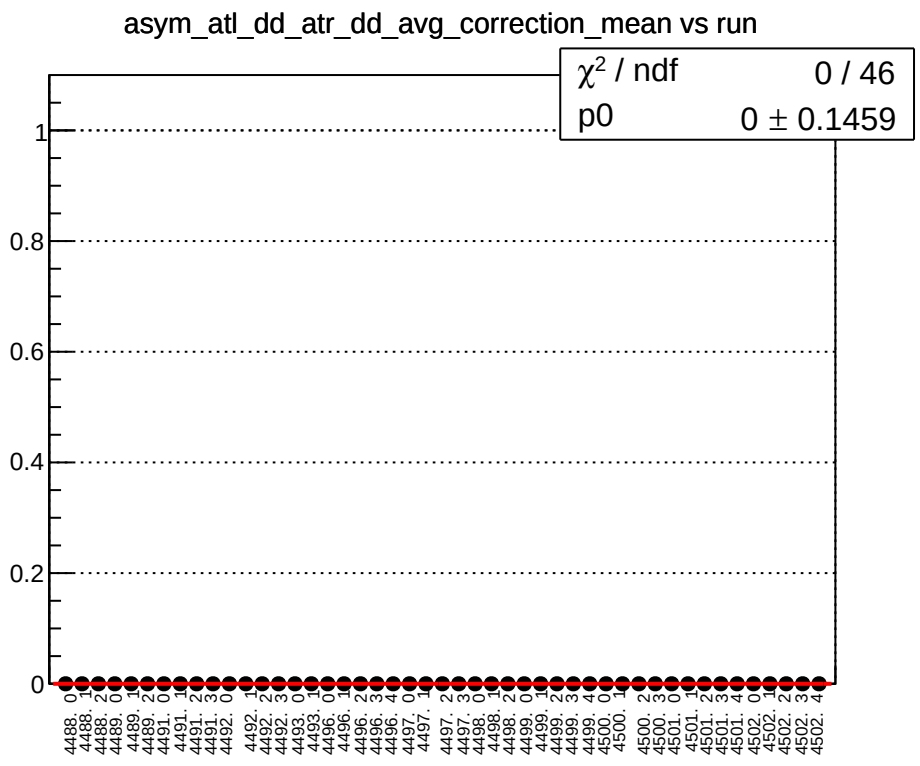
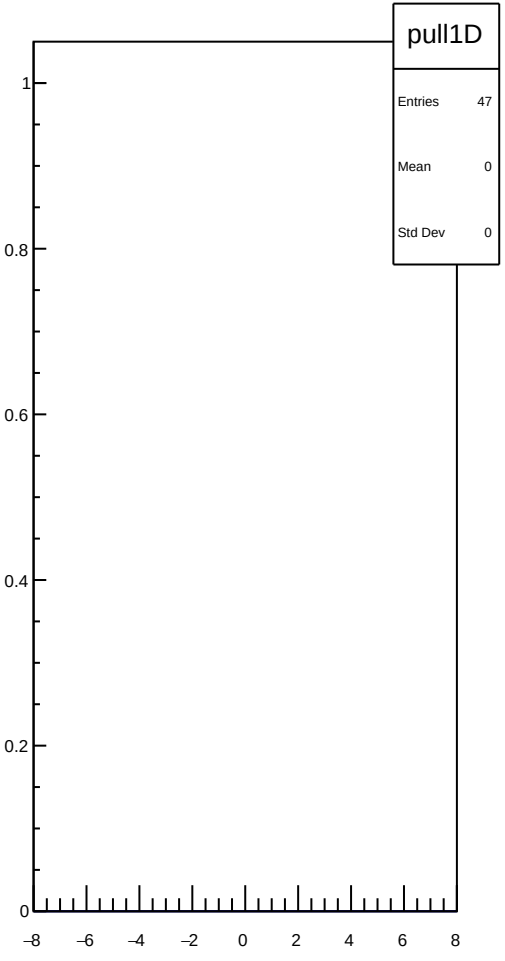
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

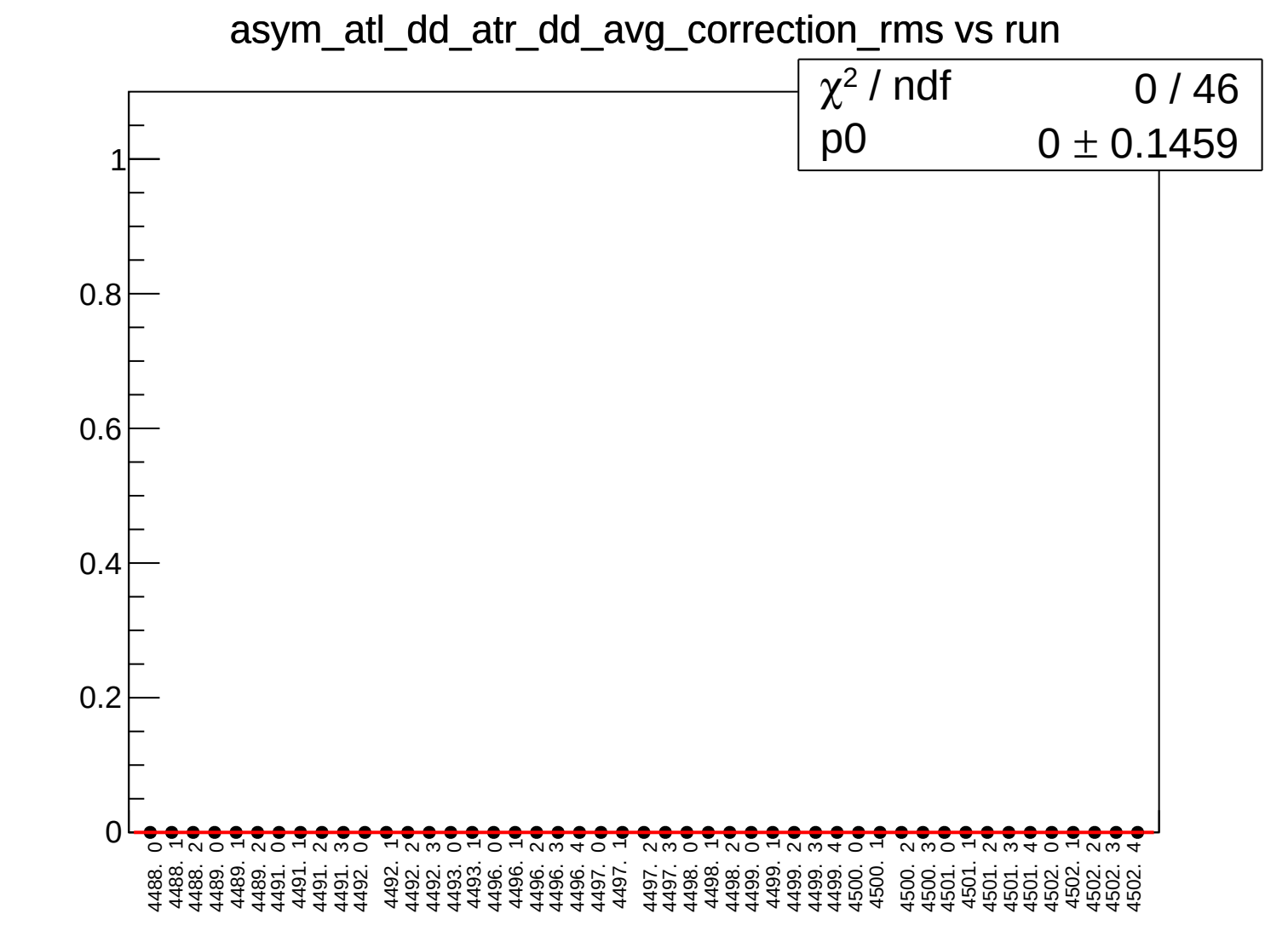

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.3 / 46
p0 −673.4 ± 718.9
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −25.75
Std Dev 63.97
1.5
1
0.5
0
−0.5
−1
−1.5

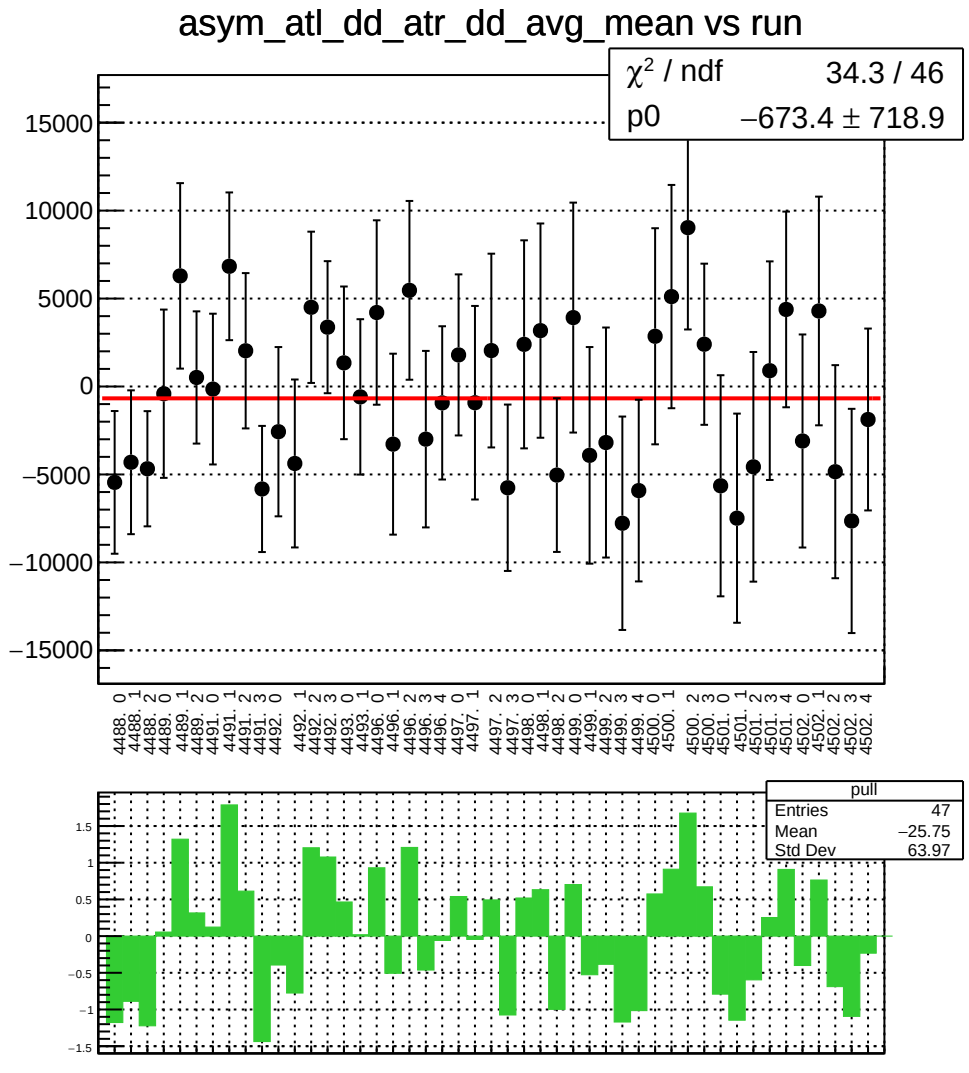

pull1D
Entries 47
Mean 0.01446
Std Dev 0.8542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

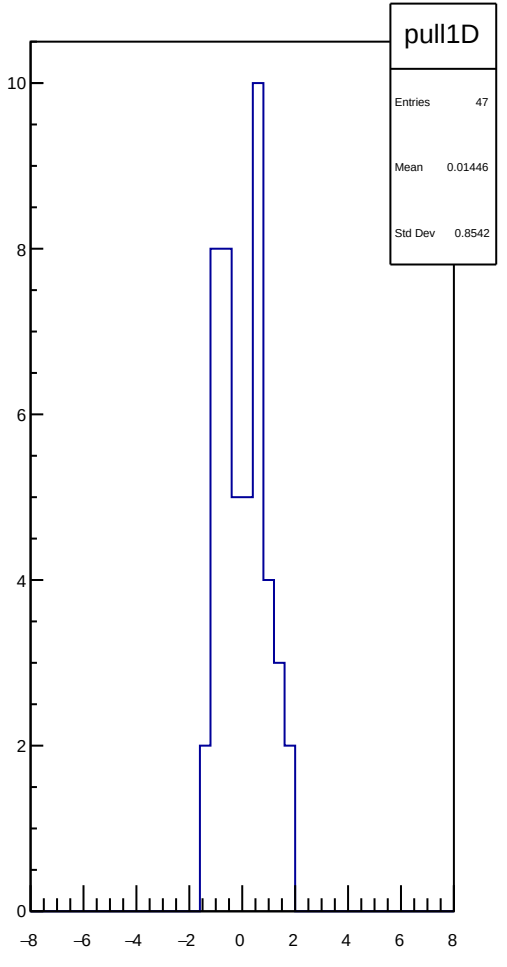

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.307e+04 / 46
p0 493.4 ± 0.5084
600
550
500
450
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

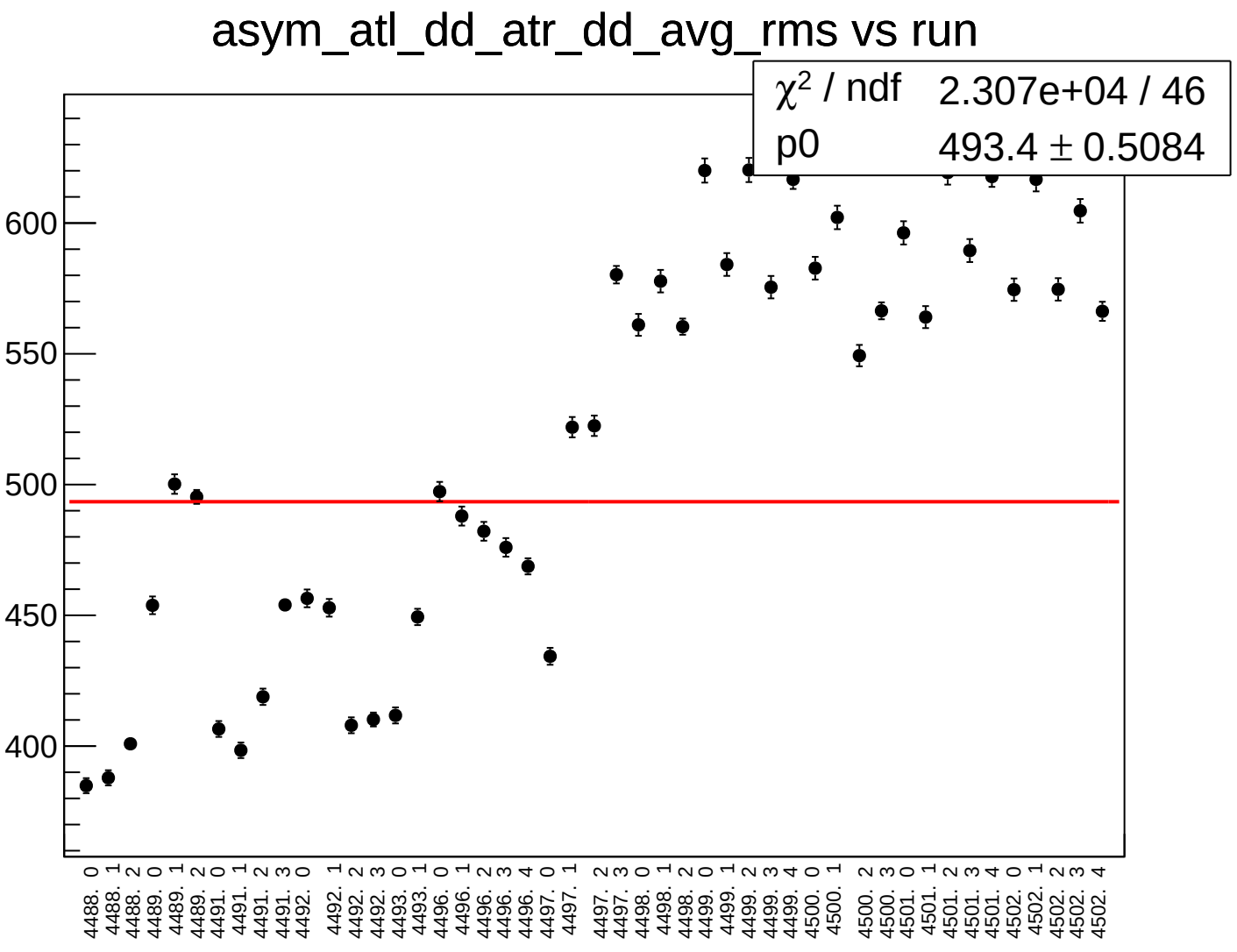

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 46
p0 0 ± 0.1459
1
0.8
0.6
0.4
0.2
0
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

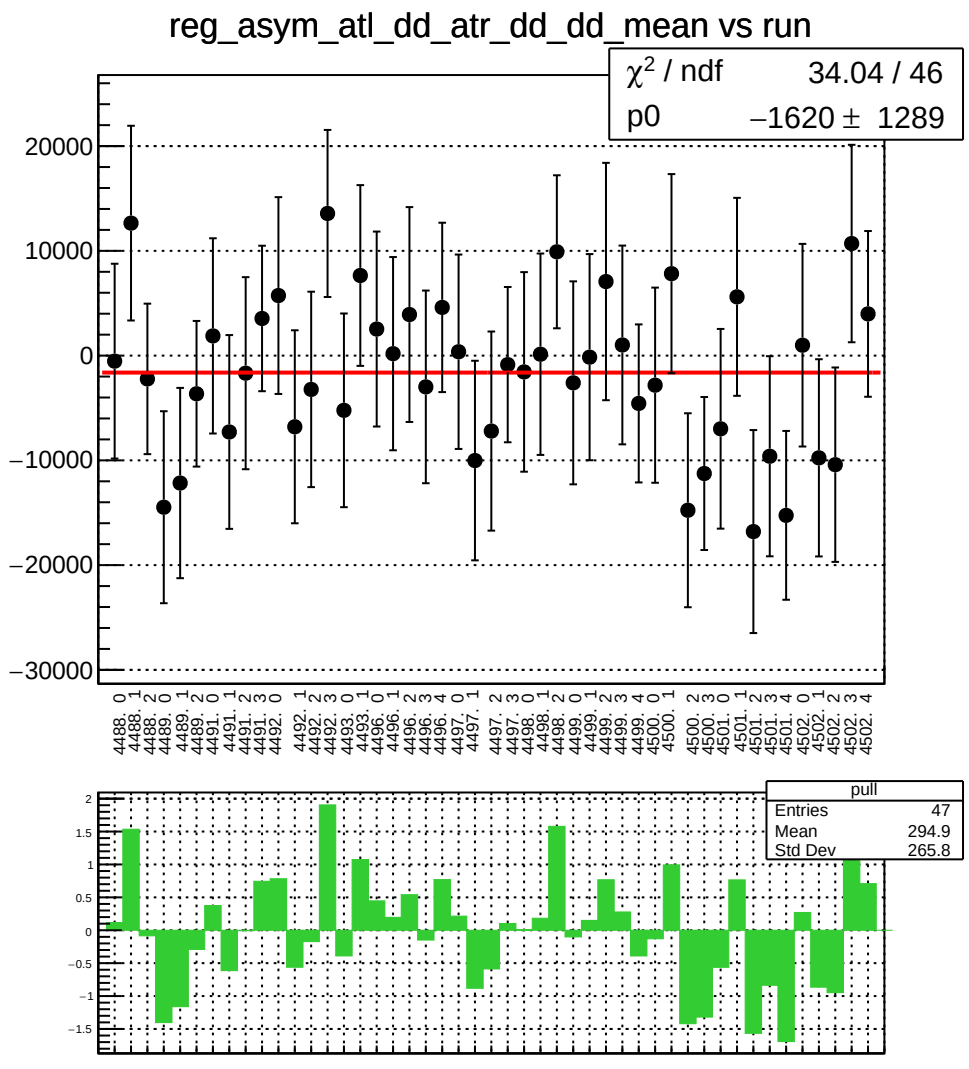

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

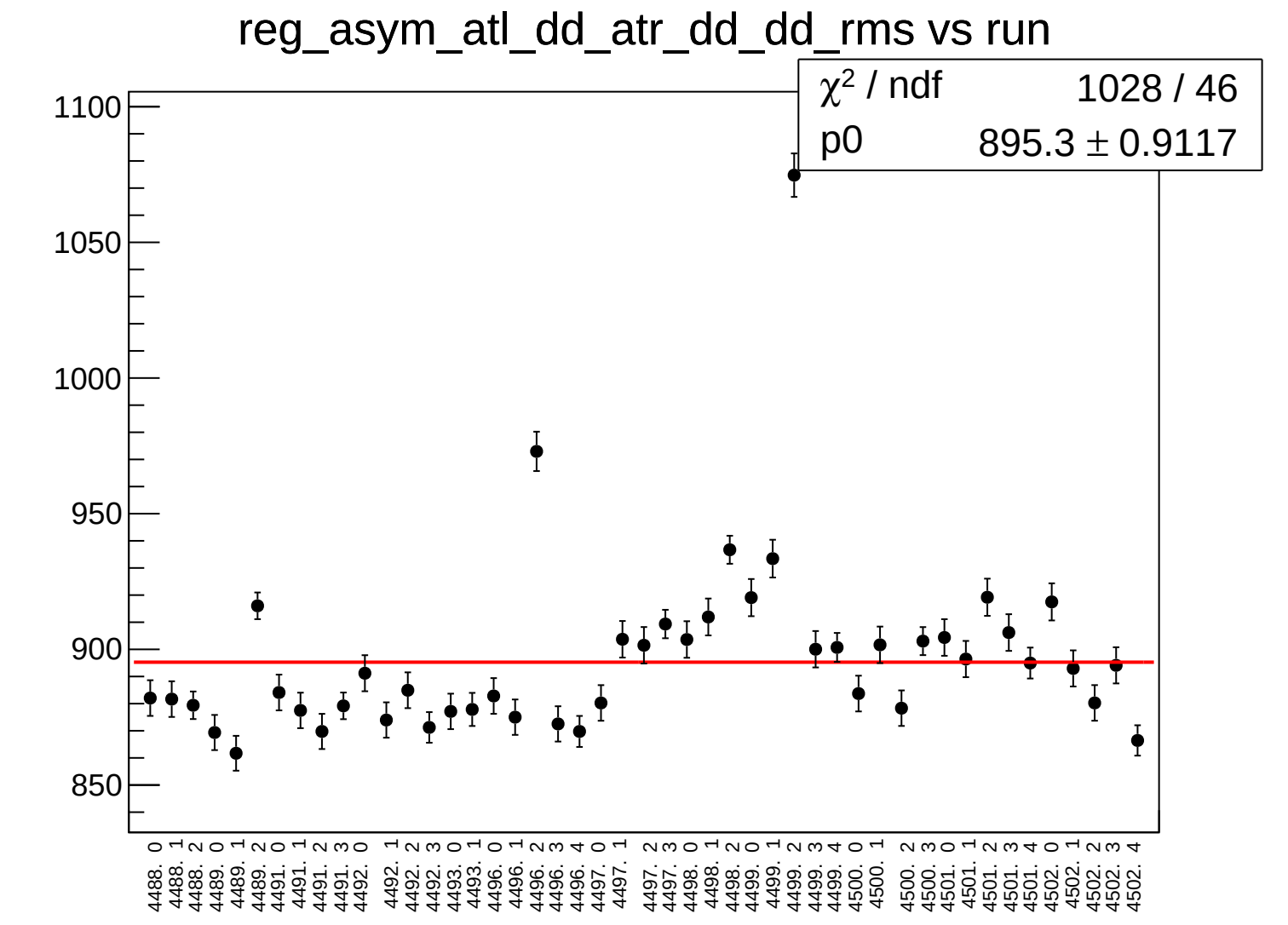

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 46
p0 0 ± 0.1459
1
0.8
0.6
0.4
0.2
0
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.3 / 46
p0 −673.4 ± 718.9
15000
10000
5000
0
−5000
−10000
−15000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −25.75
Std Dev 63.97
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 47
Mean 0.01446
Std Dev 0.8542
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 2.307e+04 / 46
p0 493.4 ± 0.5084
600
550
500
450
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.04 / 46
p0 −1620 ± 1289
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 294.9
Std Dev 265.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.006776
Std Dev 0.851
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 1028 / 46
p0 895.3 ± 0.9117
1100
1050
1000
950
900
850
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
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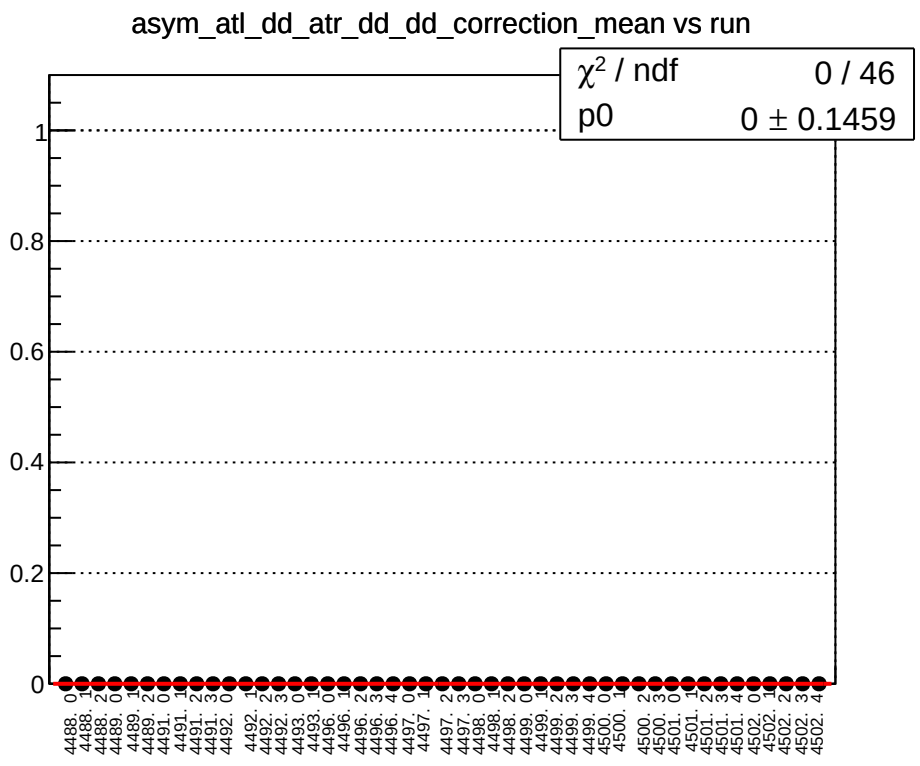
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 46
p0 0 ± 0.1459
1
0.8
0.6
0.4
0.2
0
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
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4496. 2
4496. 3
4496. 4
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4497. 1
4497. 2
4497. 3
4498. 0
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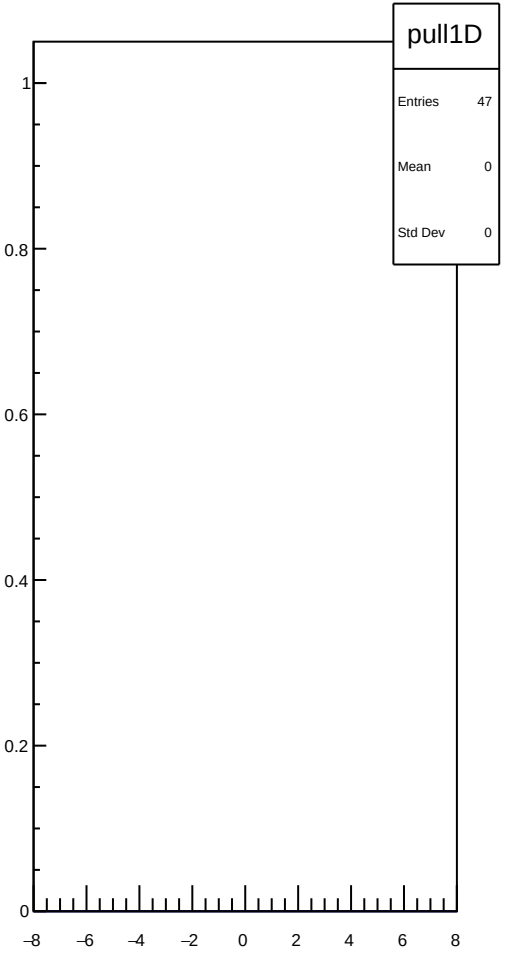
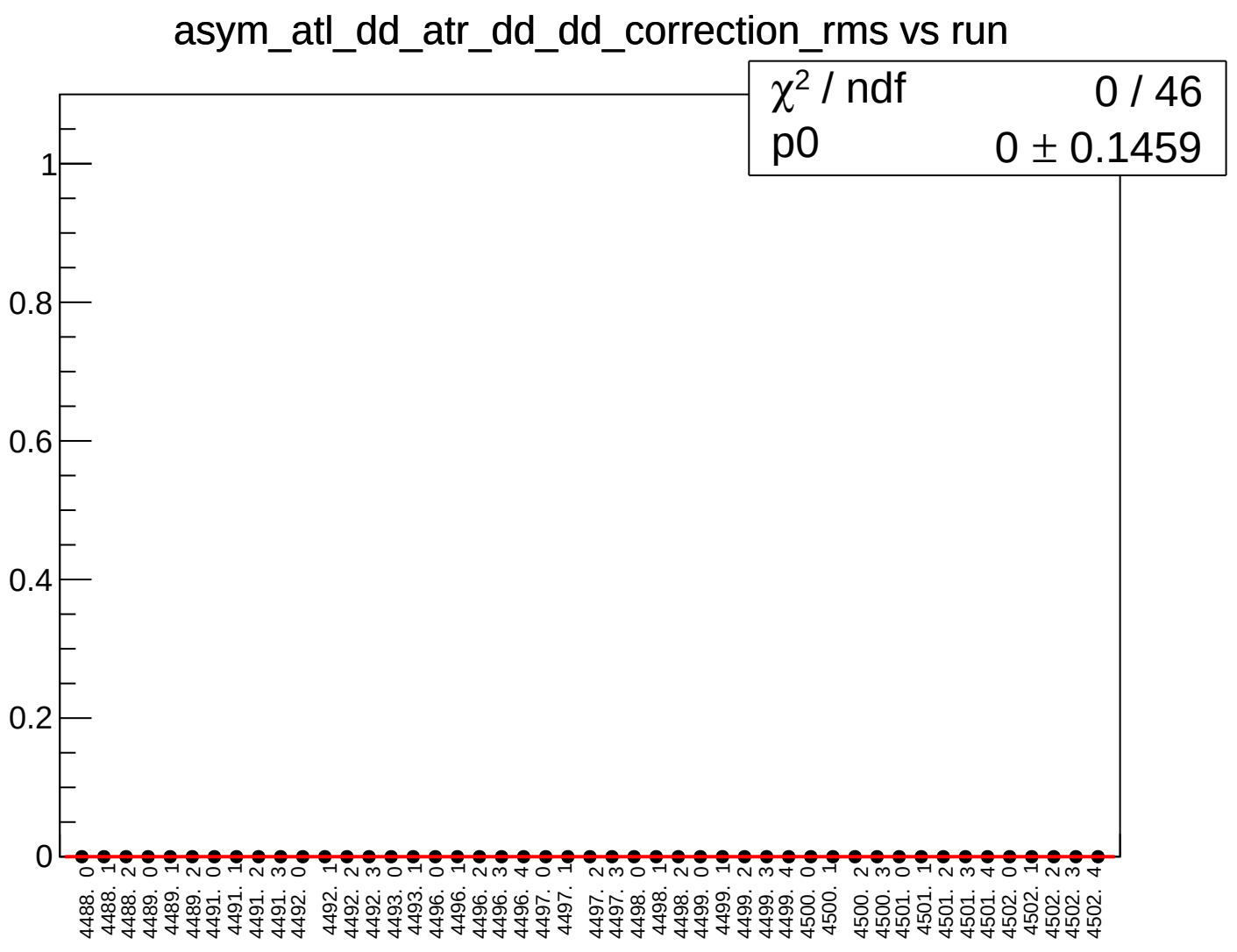
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


pull1D
Entries 47
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 / 46
p0 0 ± 0.1459
1
0.8
0.6
0.4
0.2
0
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
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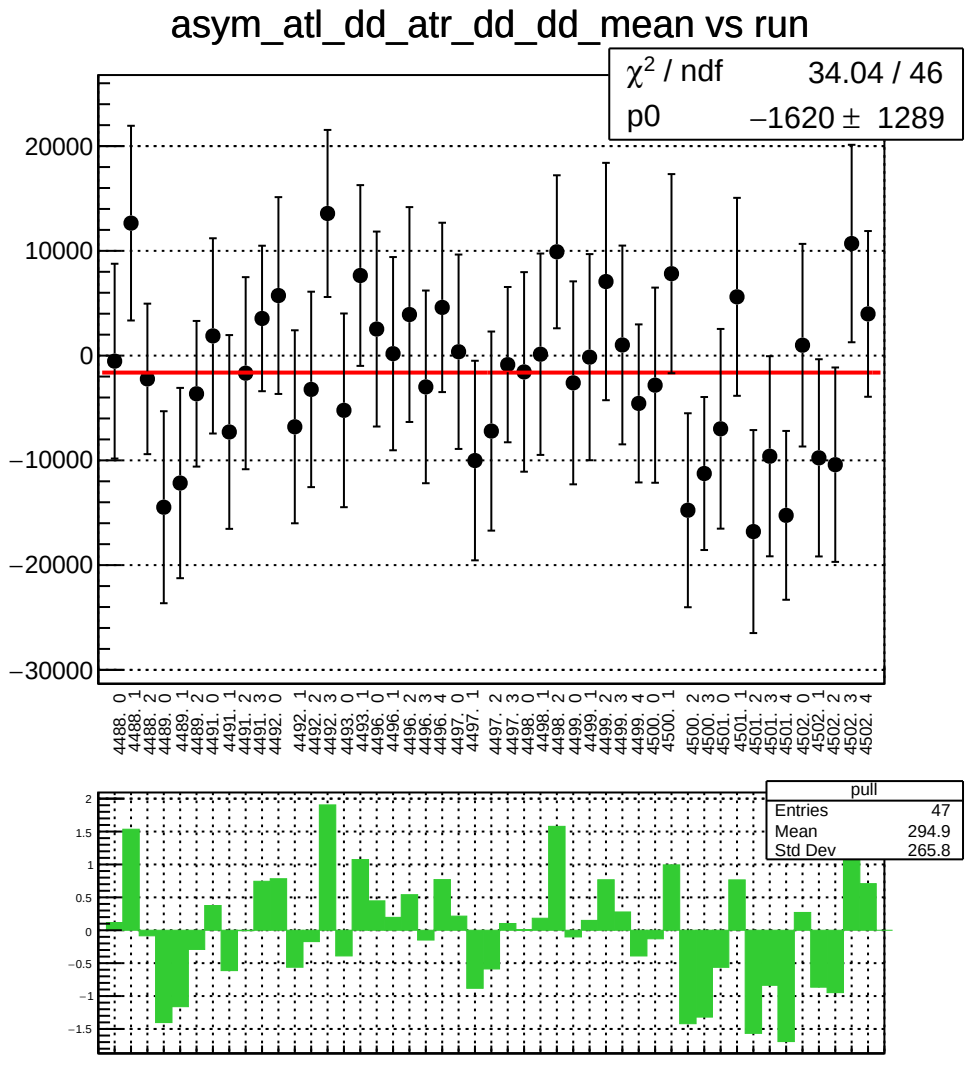
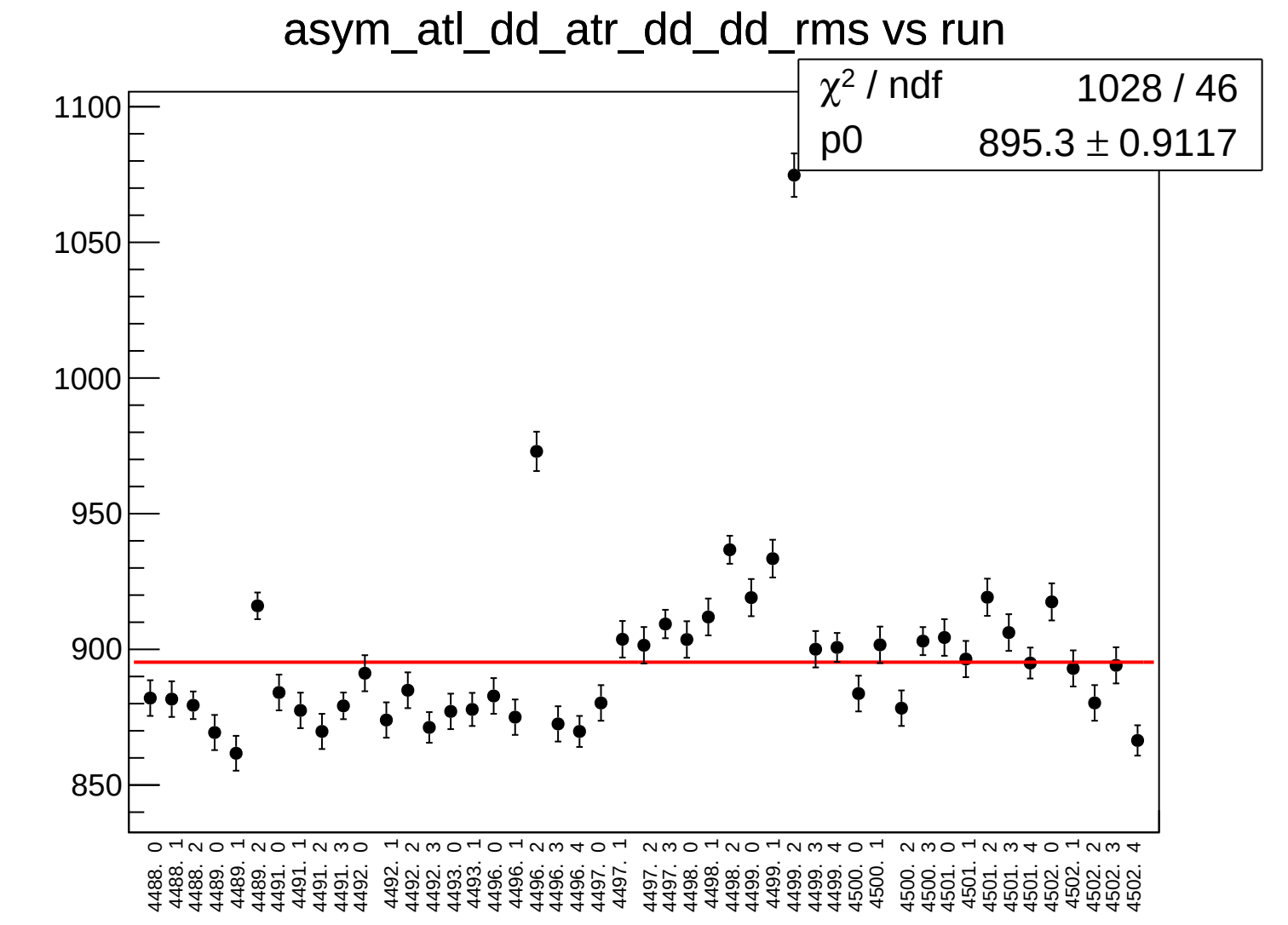
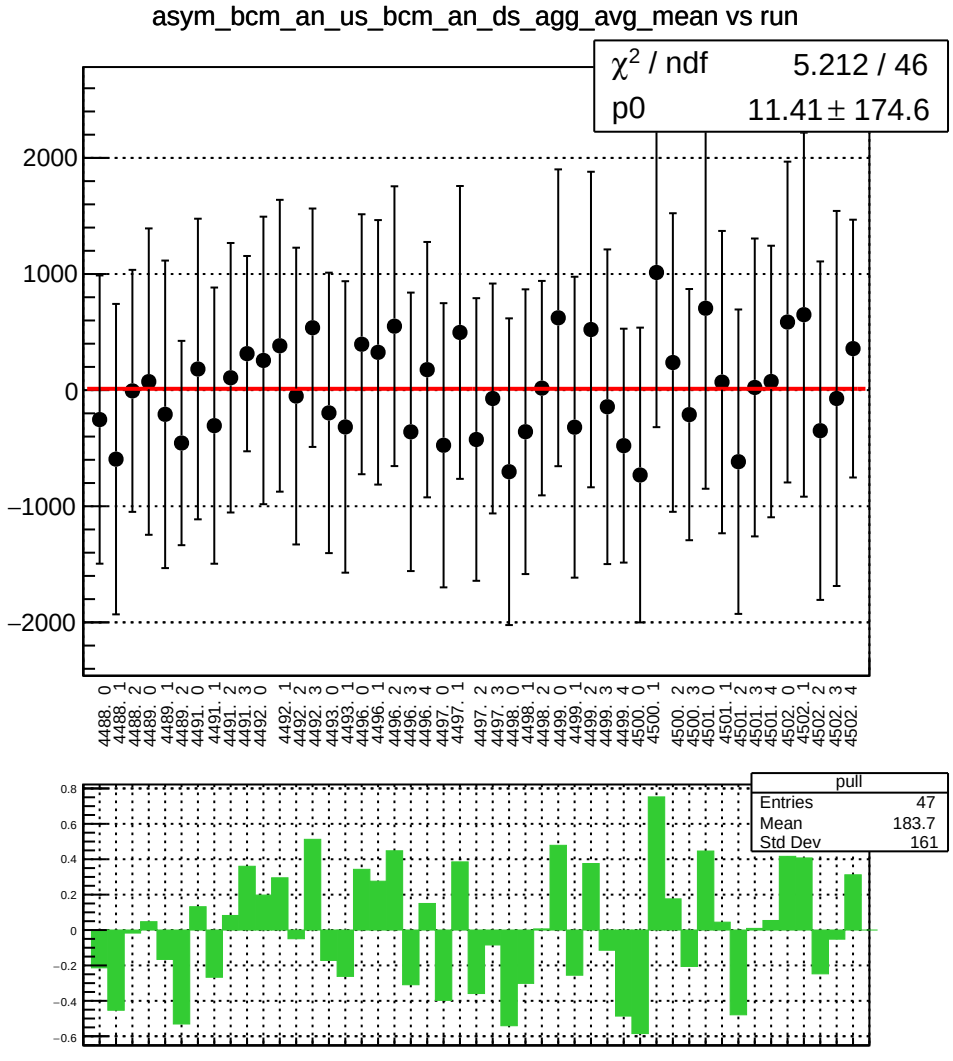
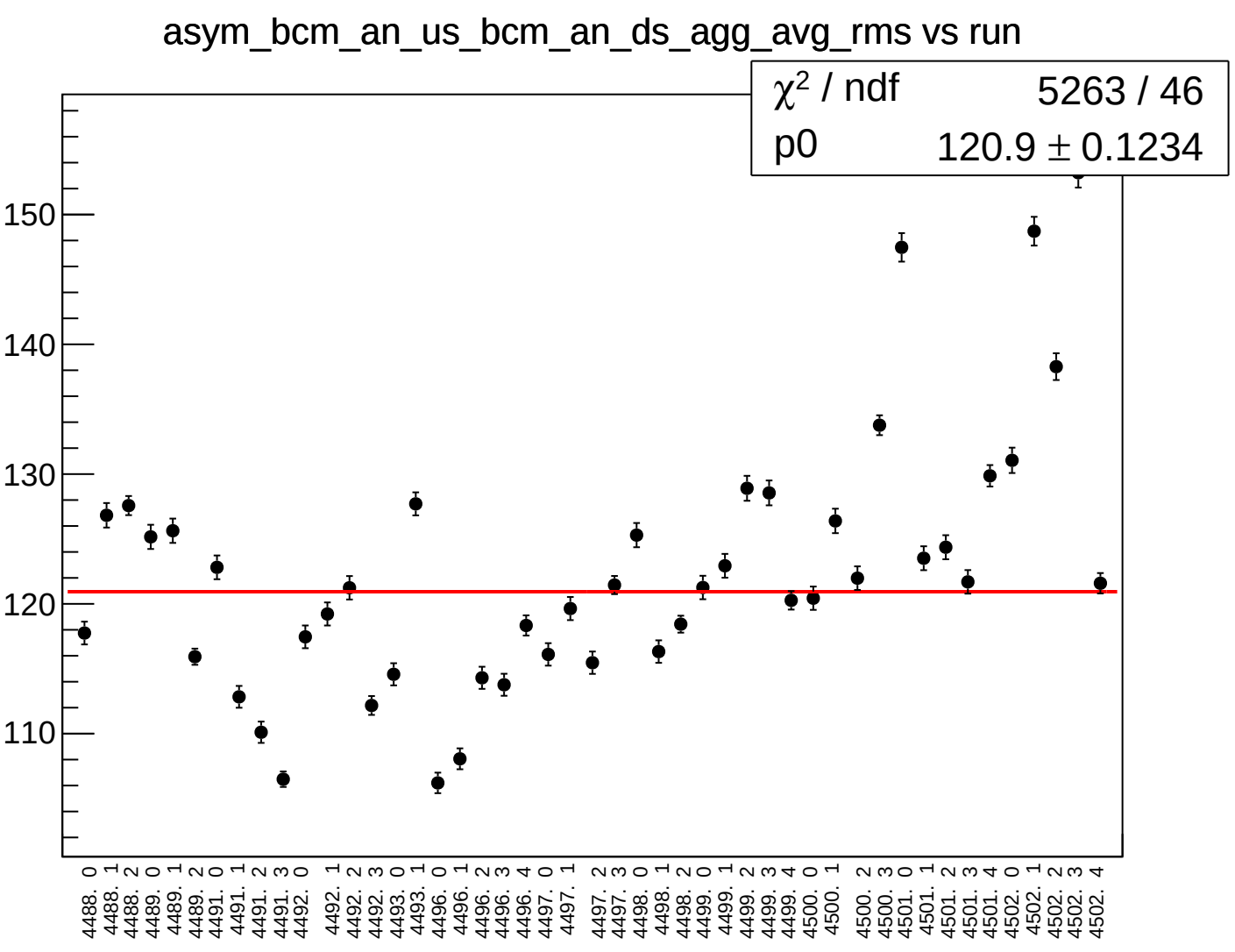
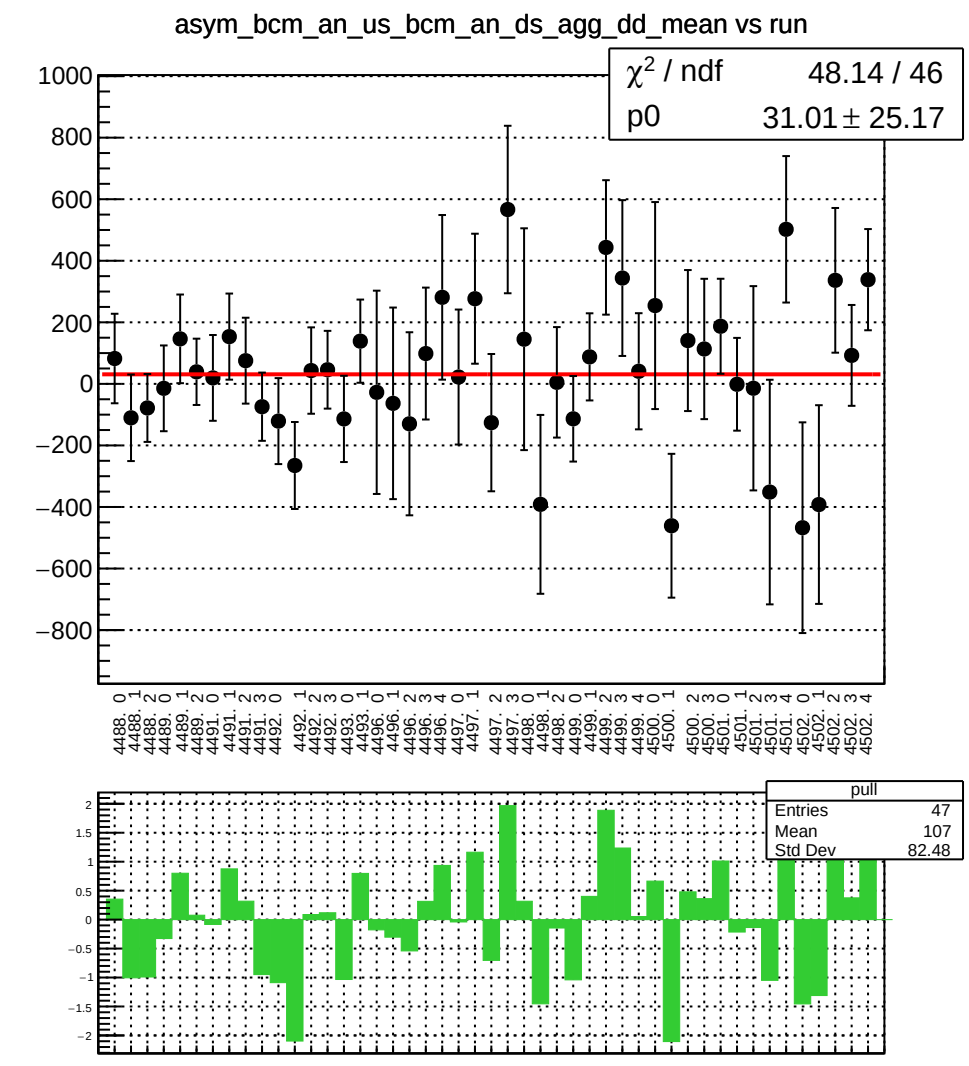
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

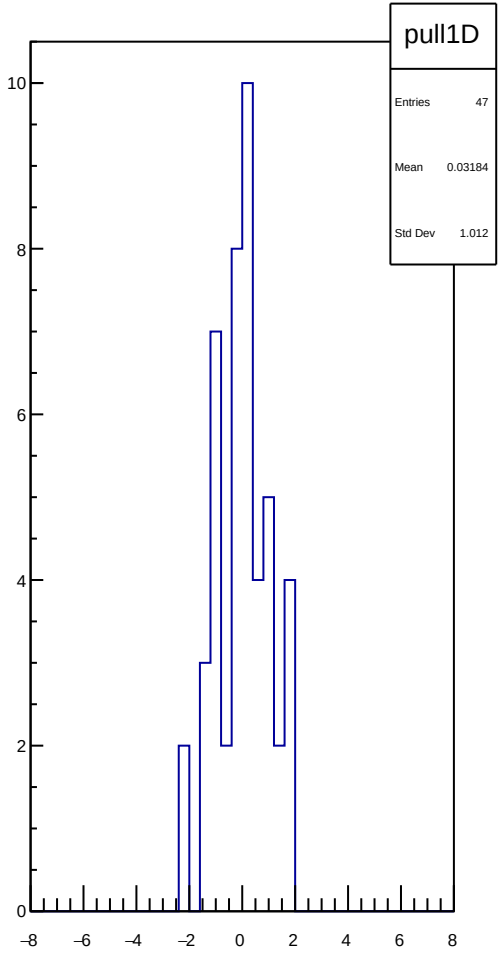

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.04 / 46
p0 −1620 ± 1289
20000
10000
0
−10000
−20000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 294.9
Std Dev 265.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.006776
Std Dev 0.851
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

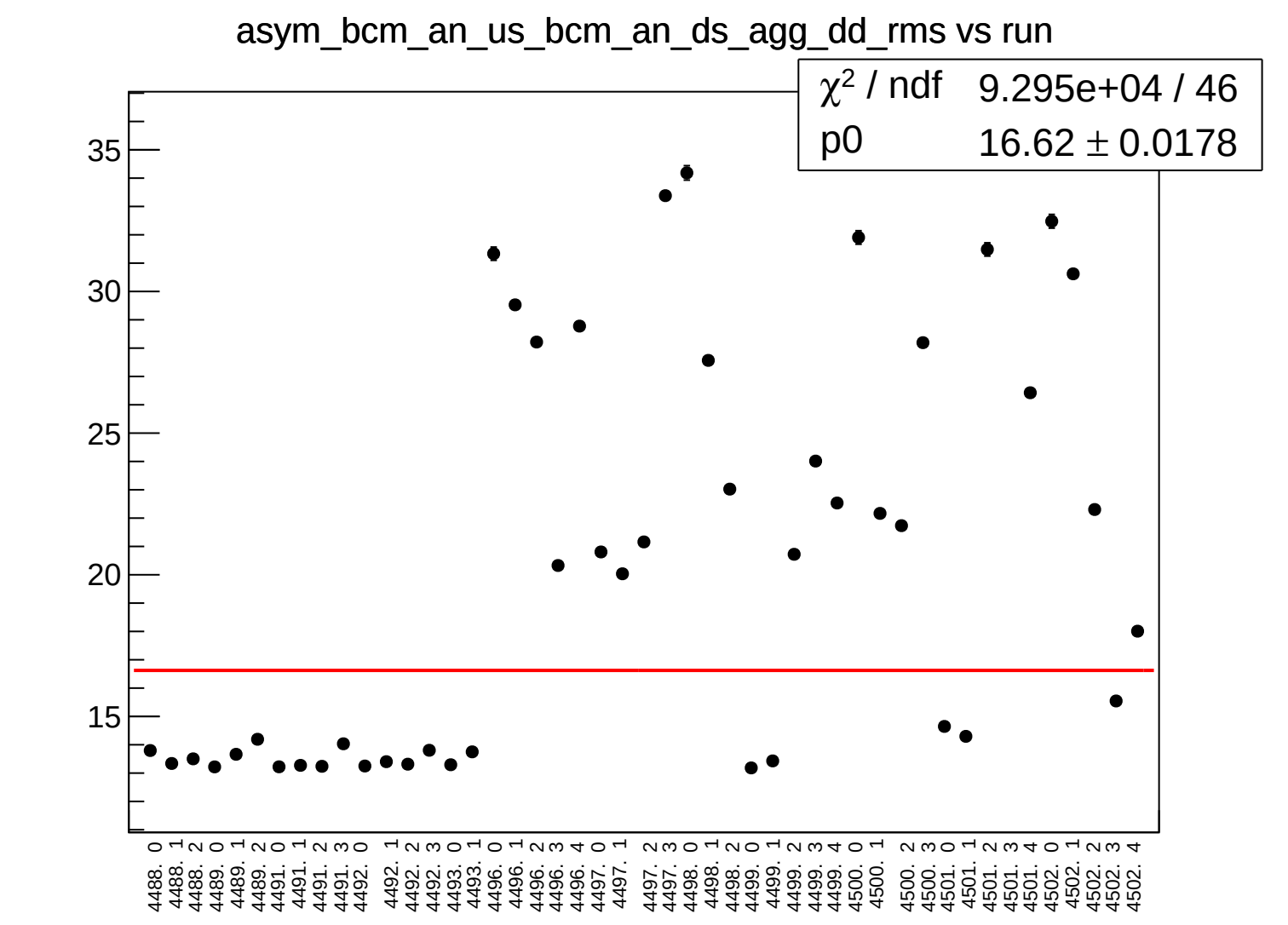

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1028 / 46
p0 895.3 ± 0.9117
1100
1050
1000
950
900
850
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

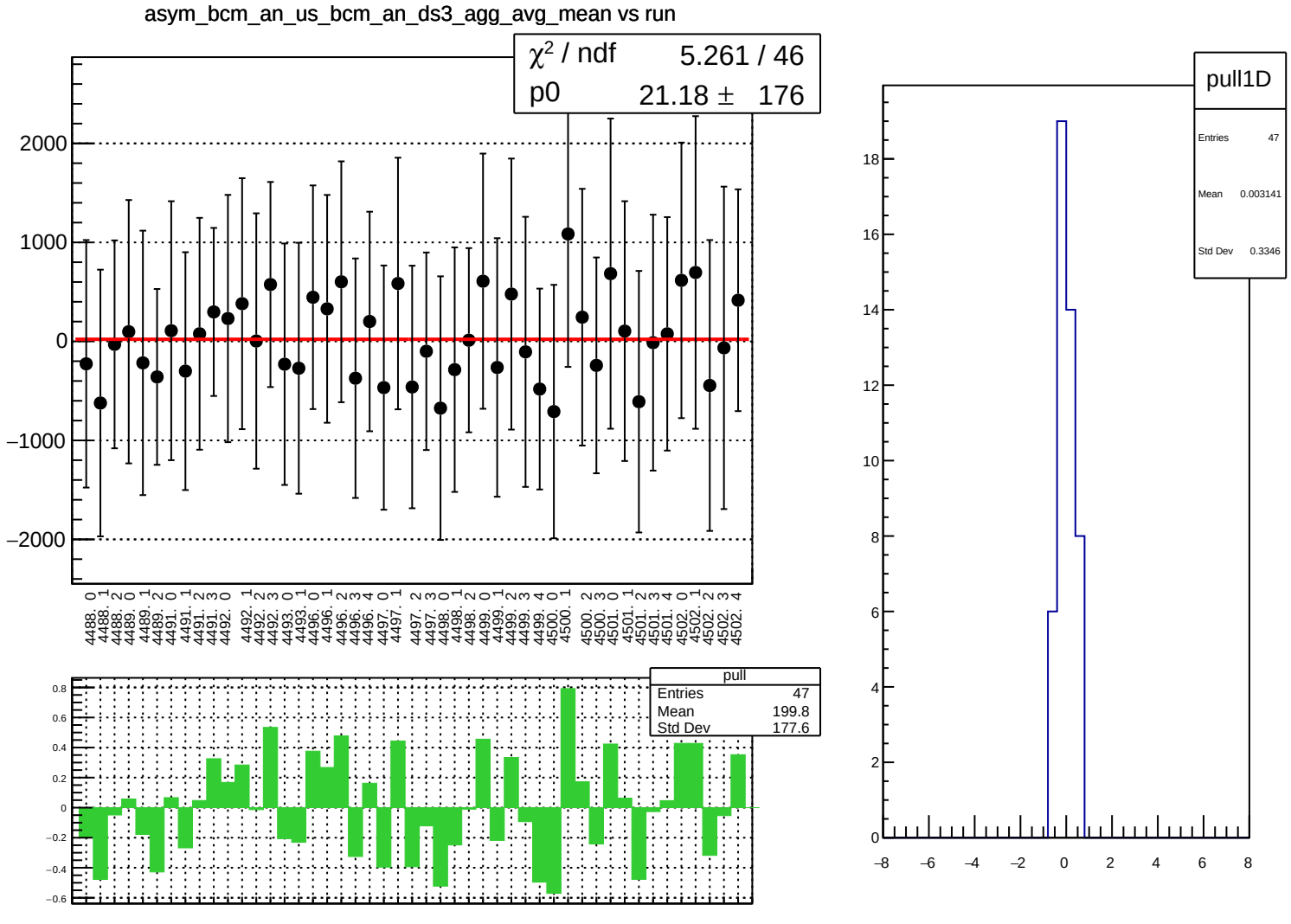

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.212 / 46
p0 11.41 ± 174.6
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 183.7
Std Dev 161
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 47
Mean 0.00344
Std Dev 0.333
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

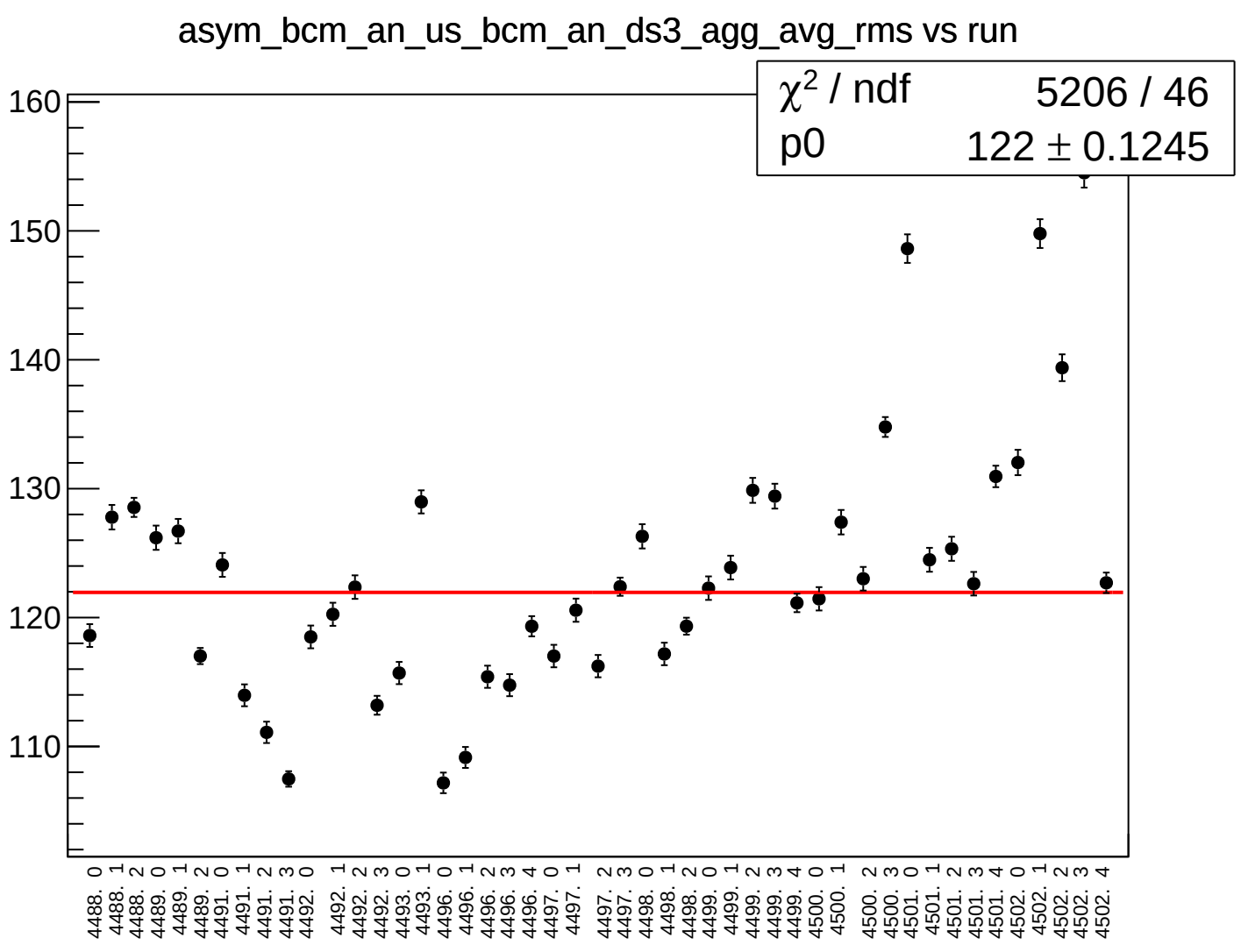

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5263 / 46
p0 120.9 ± 0.1234
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

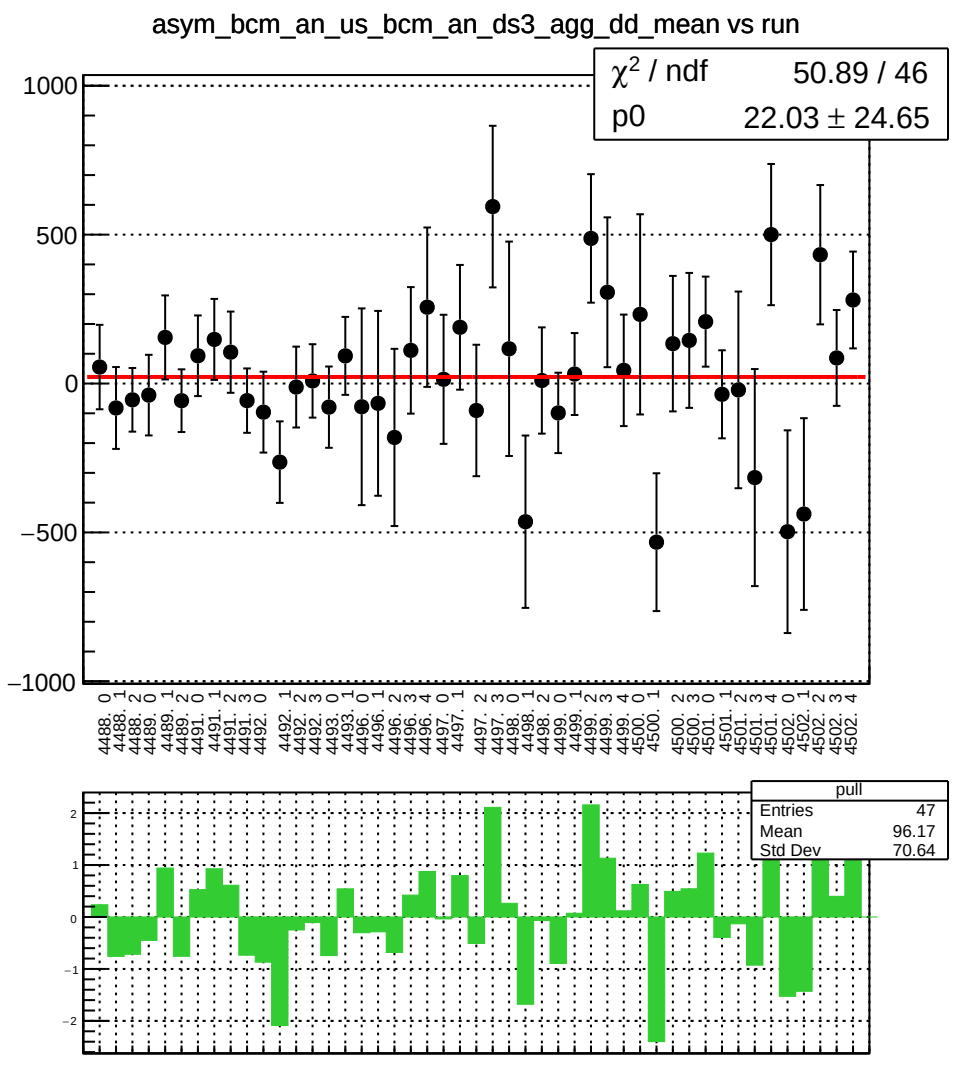

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.14 / 46
p0 31.01 ± 25.17
pull
Entries 47
Mean 107
Std Dev 82.48

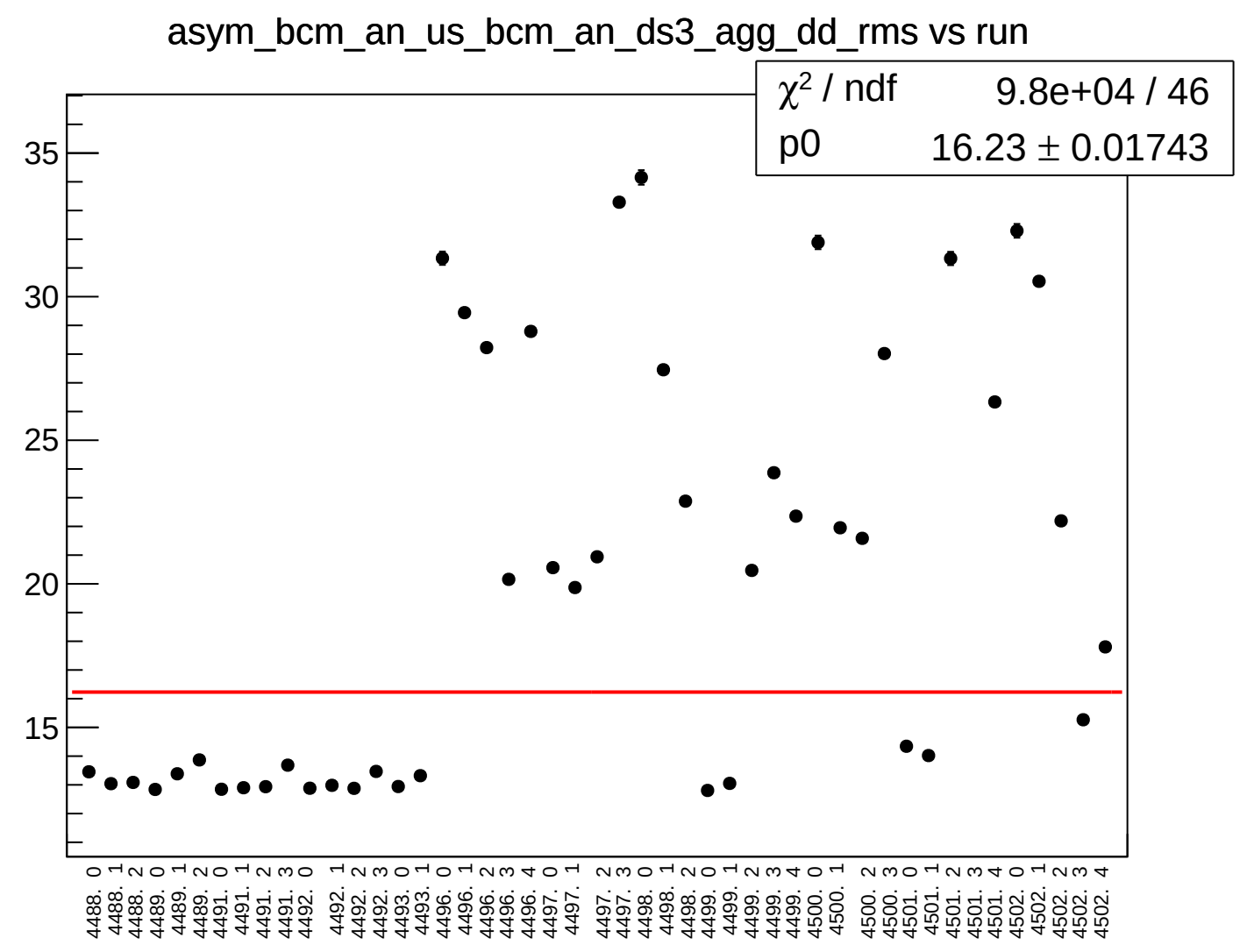

pull1D
Entries 47
Mean 0.03184
Std Dev 1.012

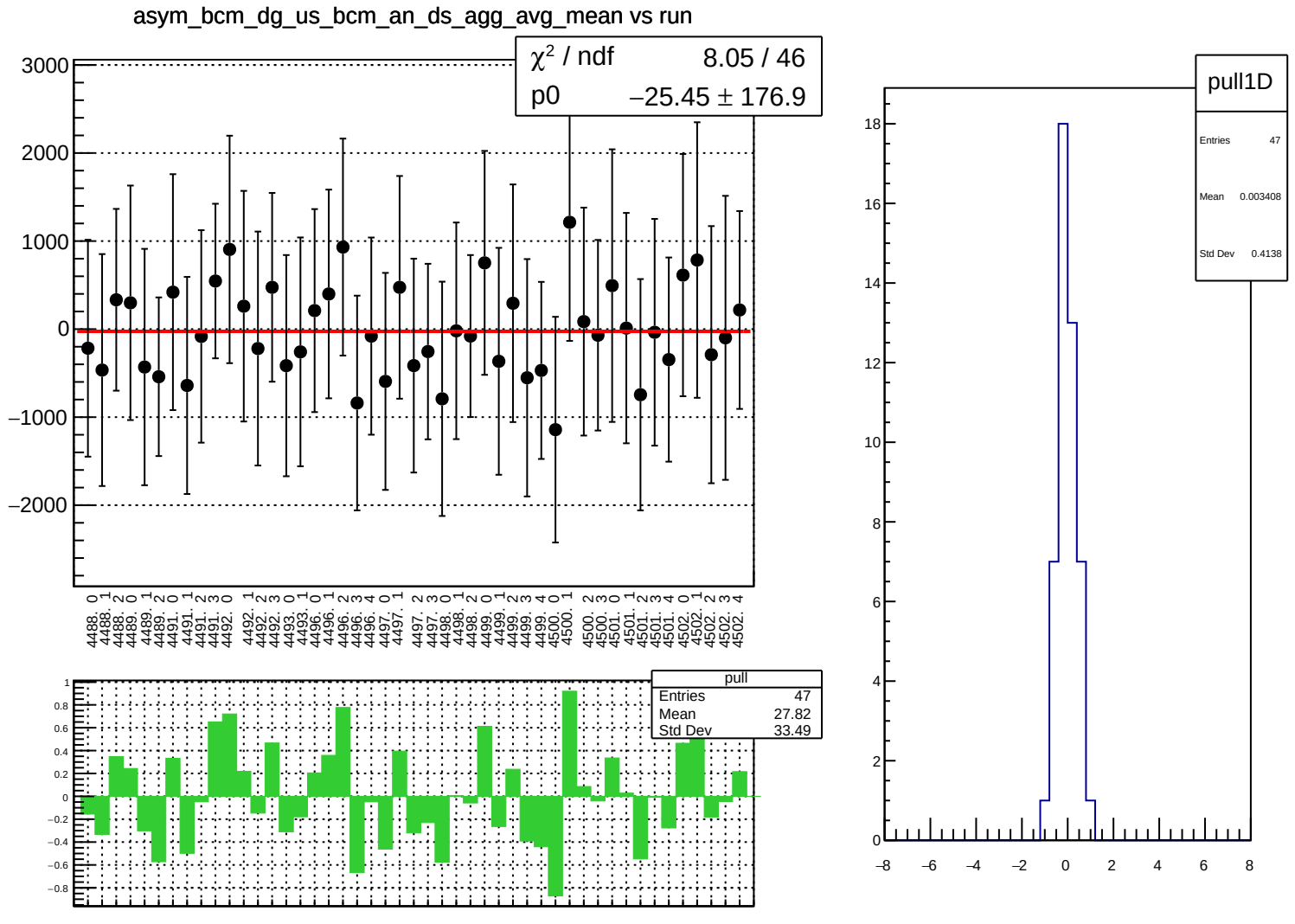

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9.295e+04 / 46
p0 16.62 ± 0.0178
35
30
25
20
15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

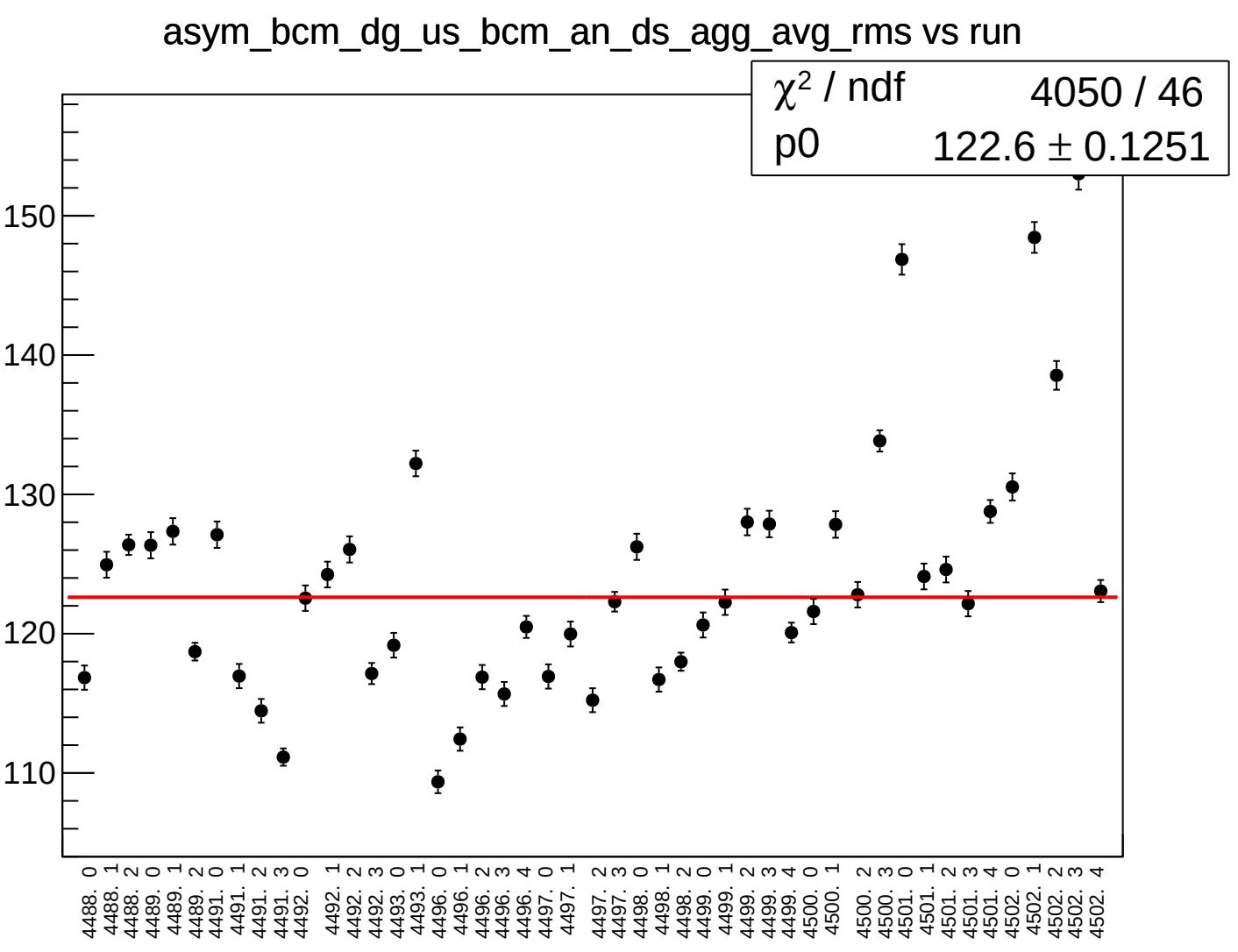

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 5.261 / 46
p0 21.18 ± 176
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 199.8
Std Dev 177.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 47
Mean 0.003141
Std Dev 0.3346
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

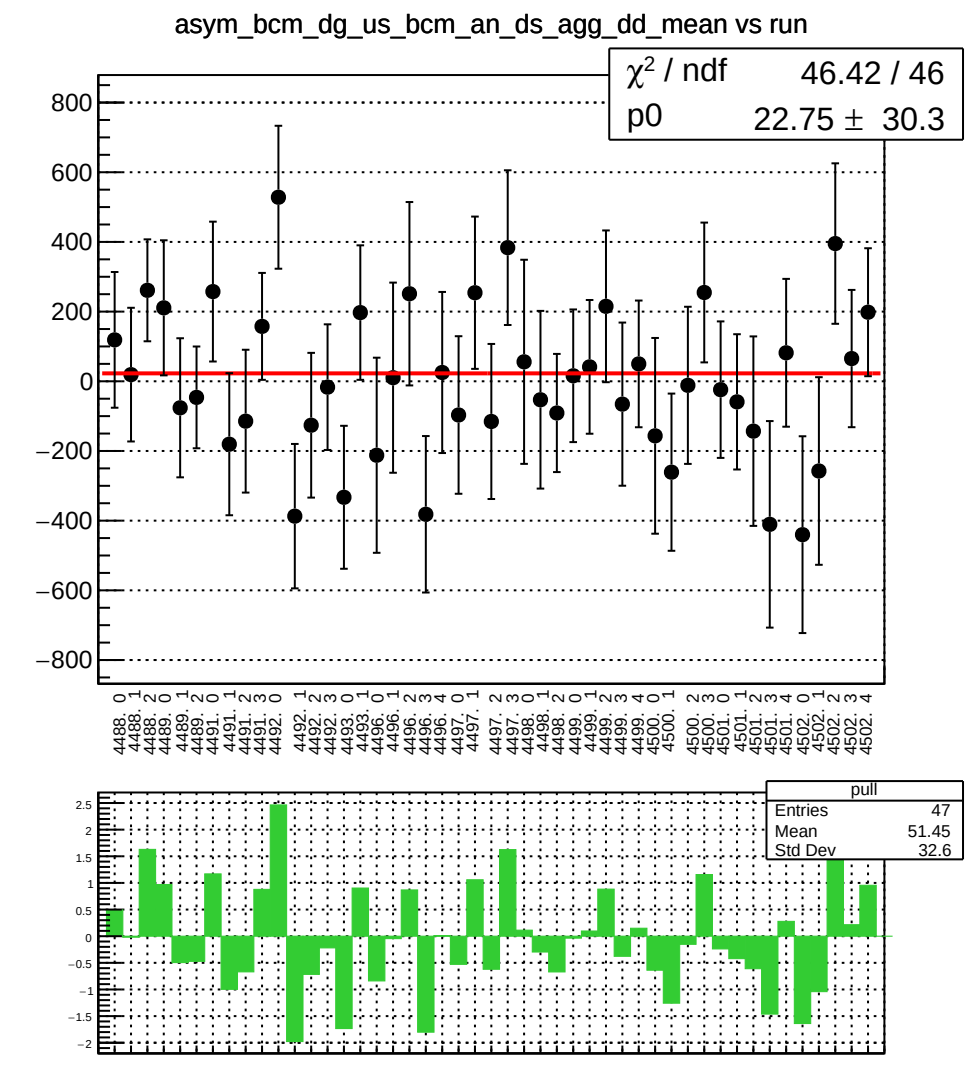

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5206 / 46
p0 122 ± 0.1245
160
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

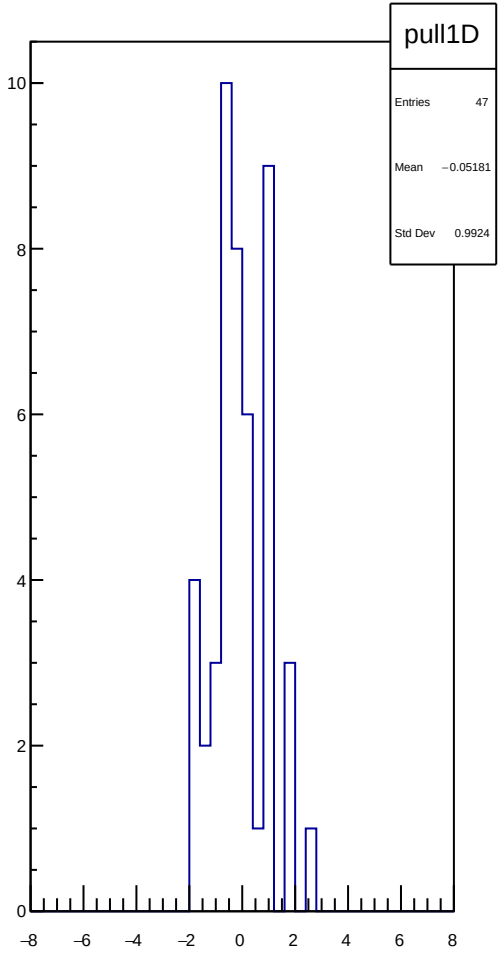

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 50.89 / 46
p0 22.03 ± 24.65
1000
500
0
−500
−1000
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 96.17
Std Dev 70.64
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.03479
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

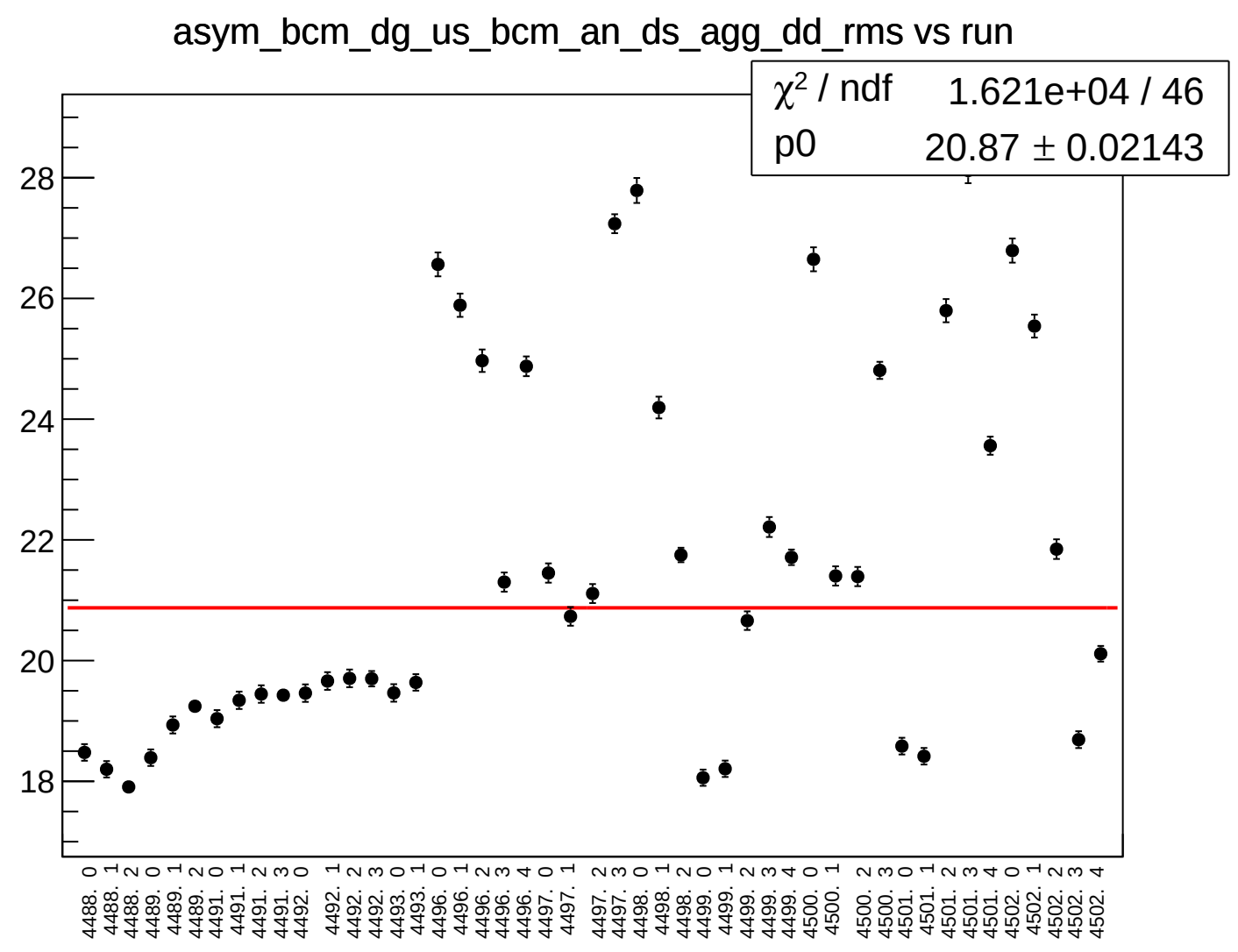

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 9.8e+04 / 46
p0 16.23 ± 0.01743
35
30
25
20
15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

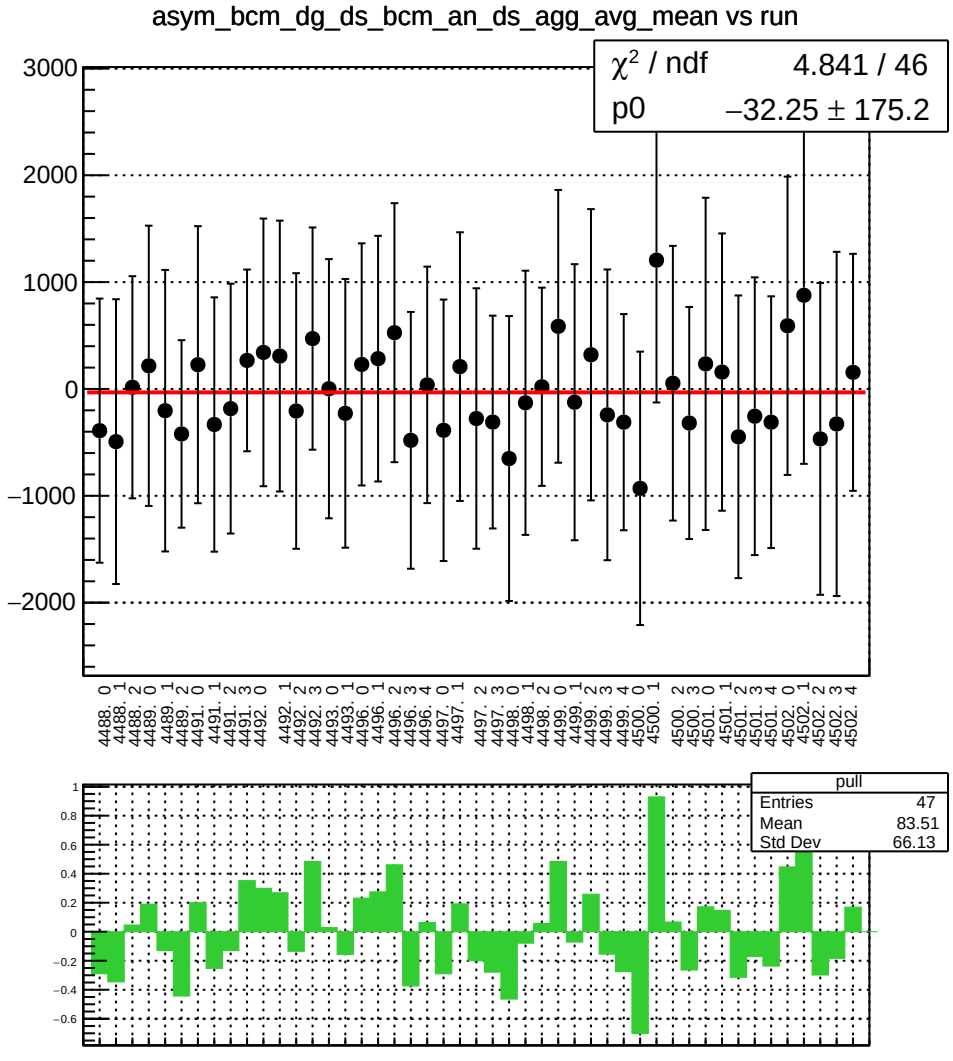

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.05 / 46
p0 −25.45 ± 176.9
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 27.82
Std Dev 33.49
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean 0.003408
Std Dev 0.4138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

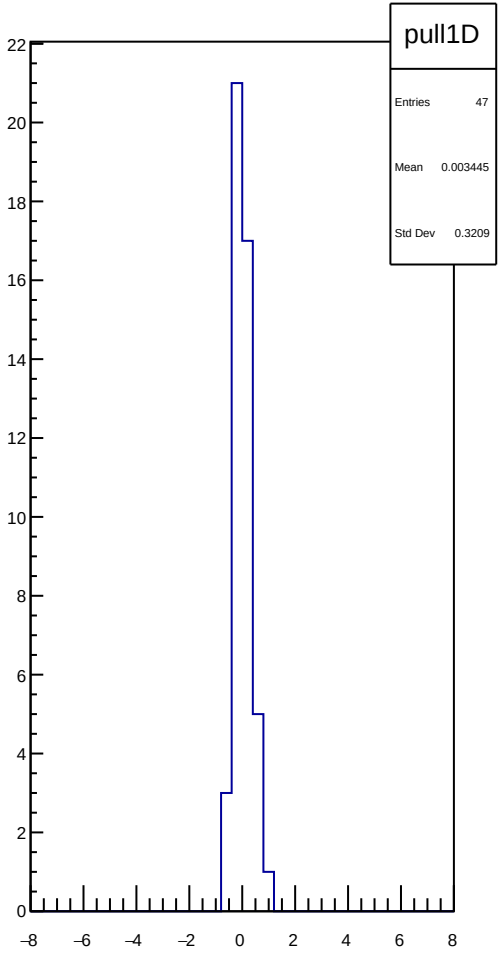

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4050 / 46
p0 122.6 ± 0.1251
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

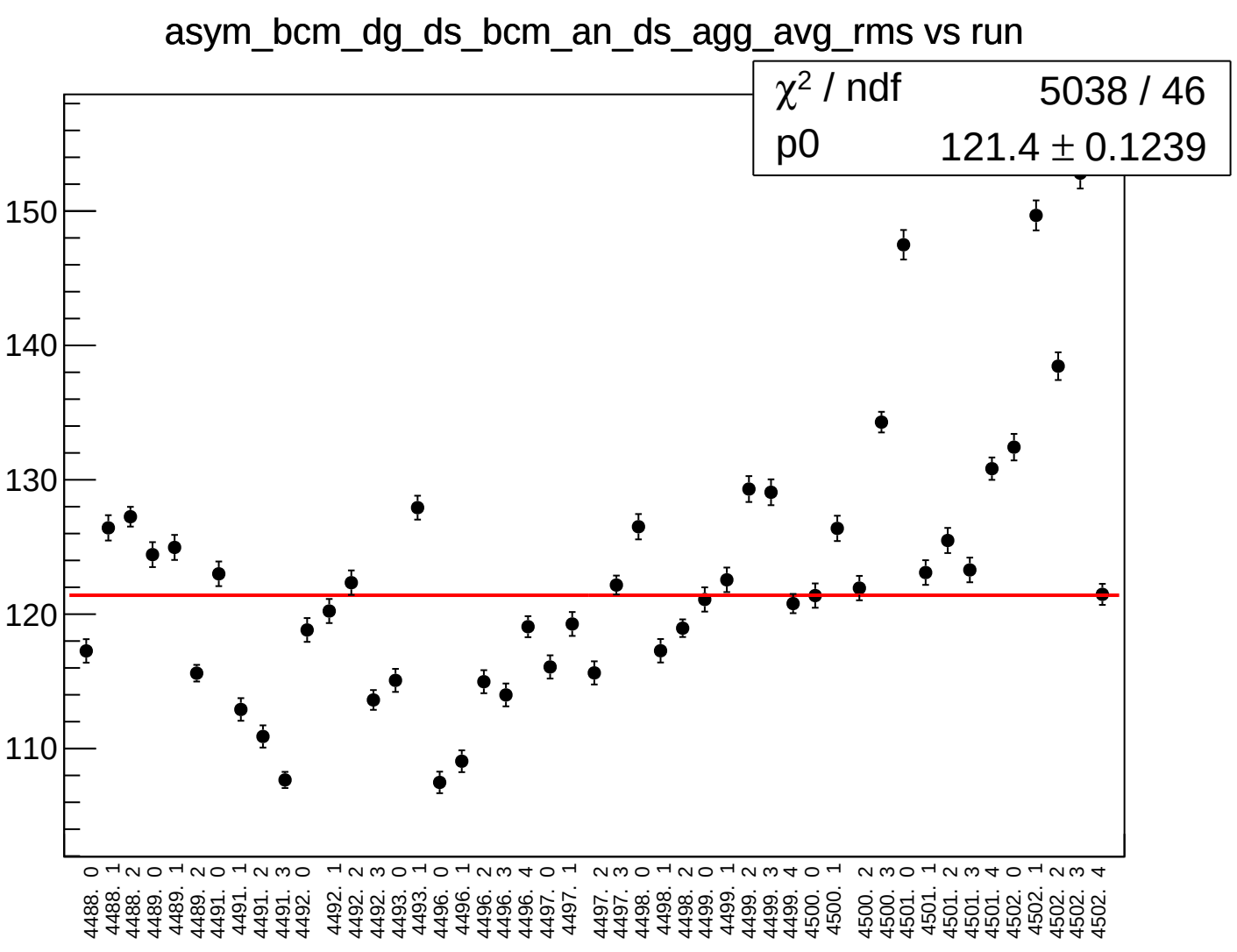

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.42 / 46
p0 22.75 ± 30.3
pull
Entries 47
Mean 51.45
Std Dev 32.6

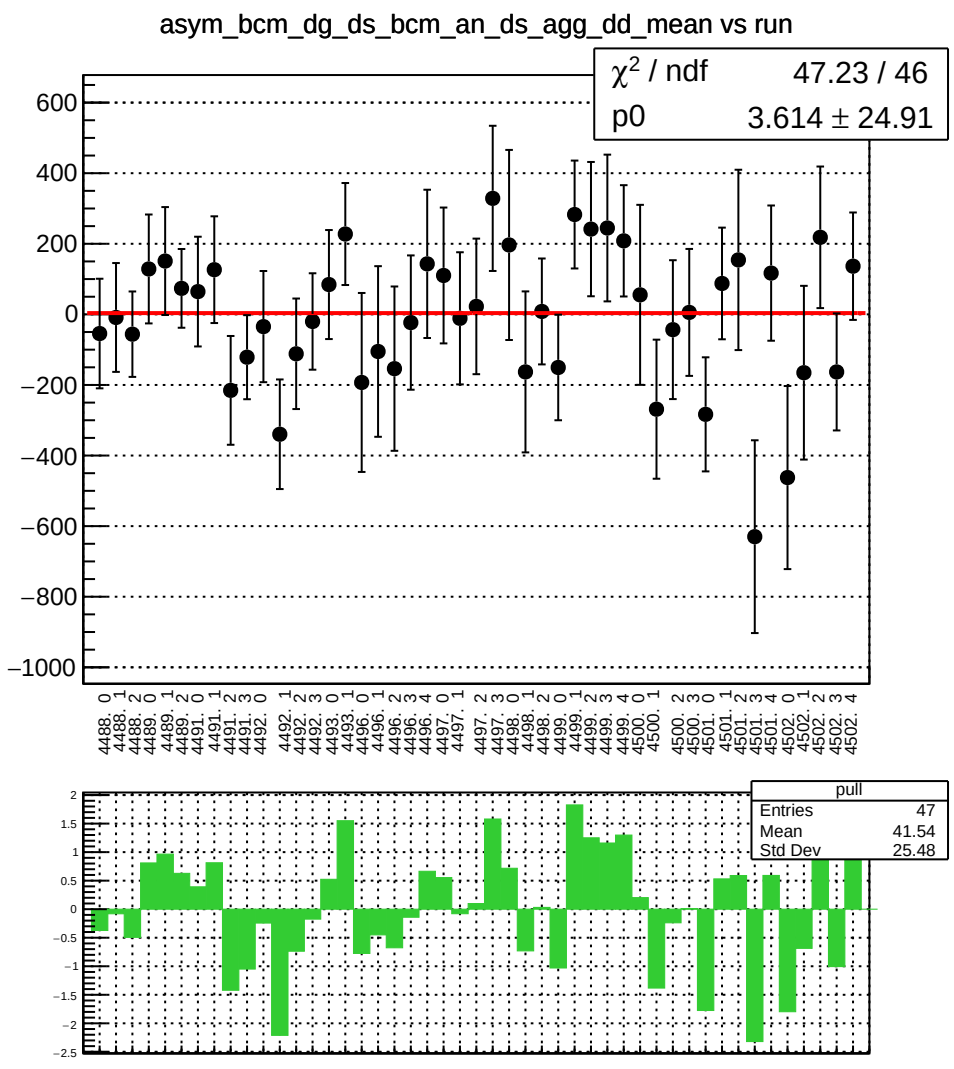

pull1D
Entries 47
Mean −0.05181
Std Dev 0.9924

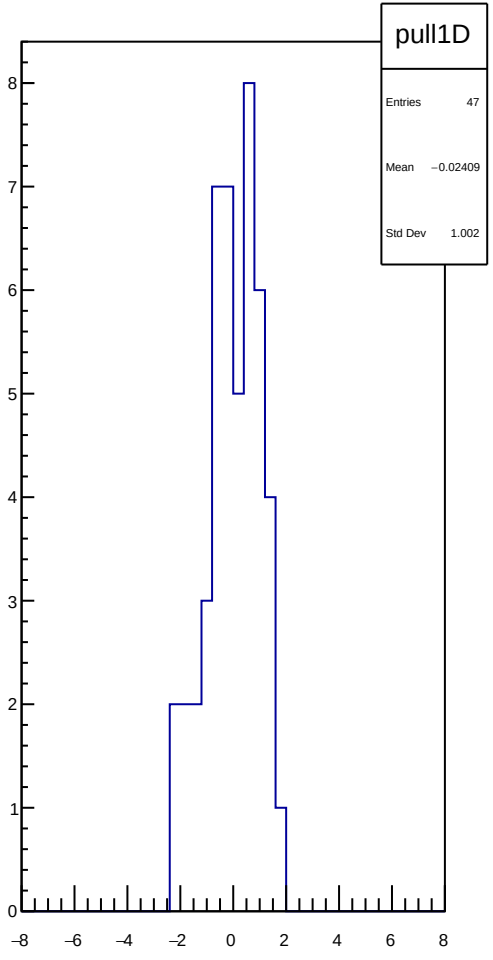

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.621e+04 / 46
p0 20.87 ± 0.02143
28
26
24
22
20
18
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

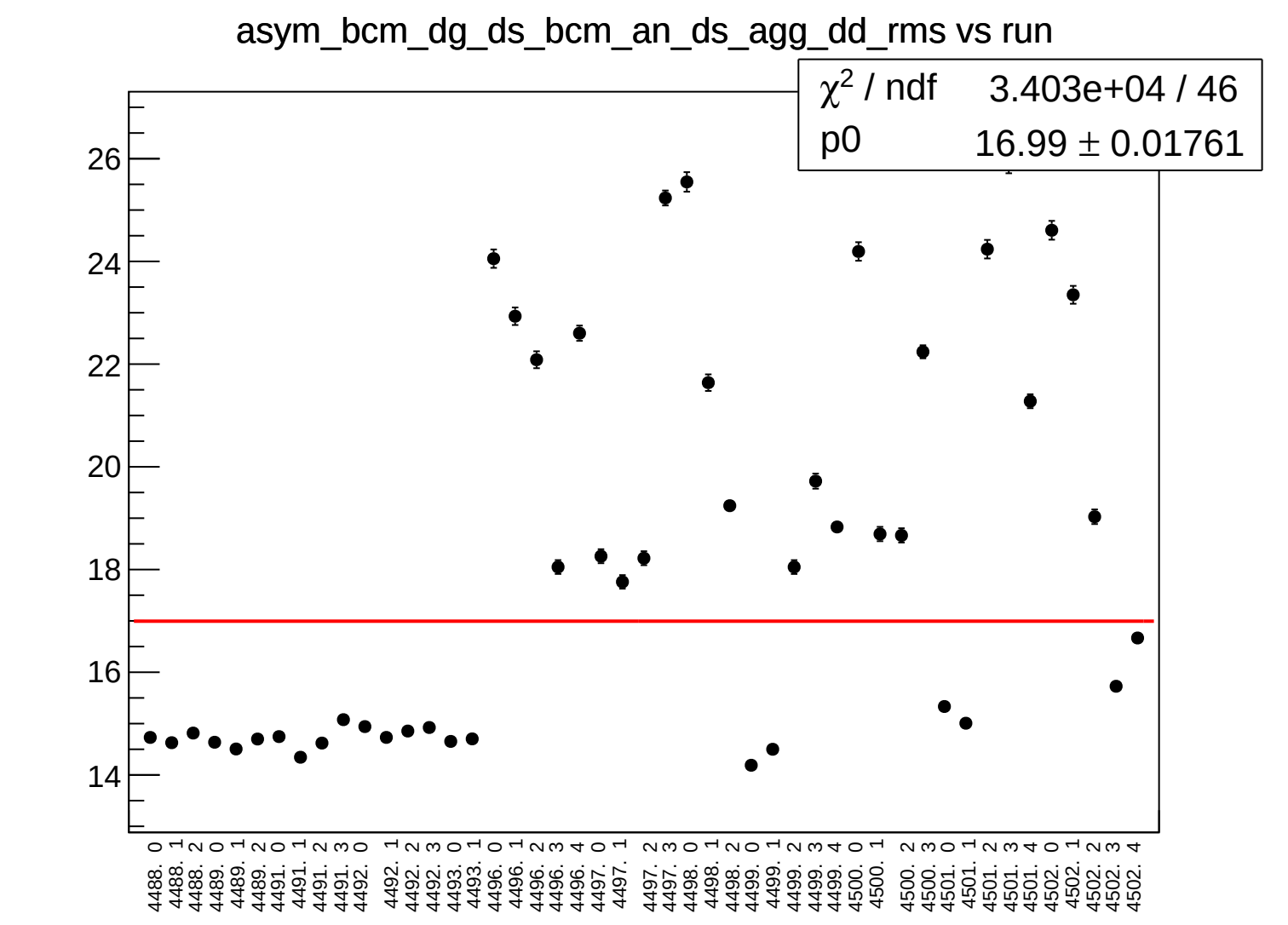

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.841 / 46
p0 −32.25 ± 175.2
pull
Entries 47
Mean 83.51
Std Dev 66.13

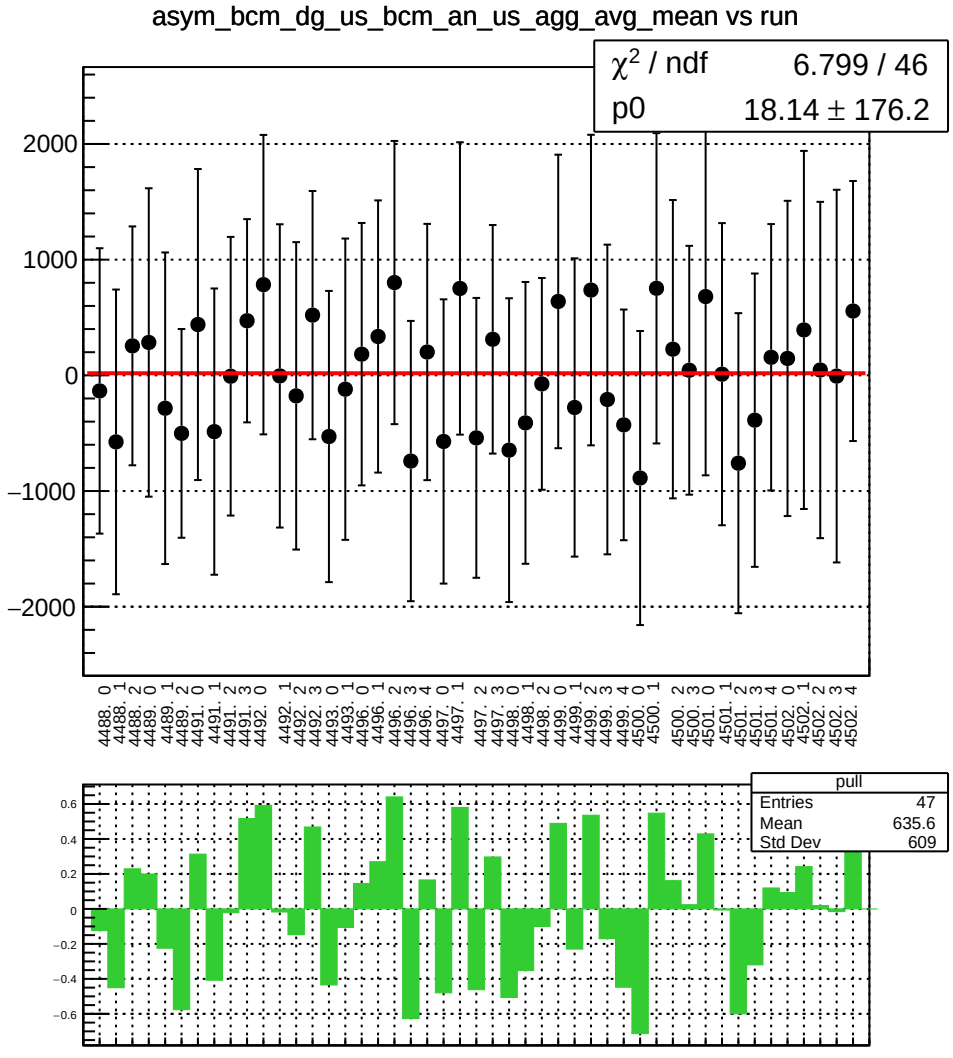

pull1D
Entries 47
Mean 0.003445
Std Dev 0.3209

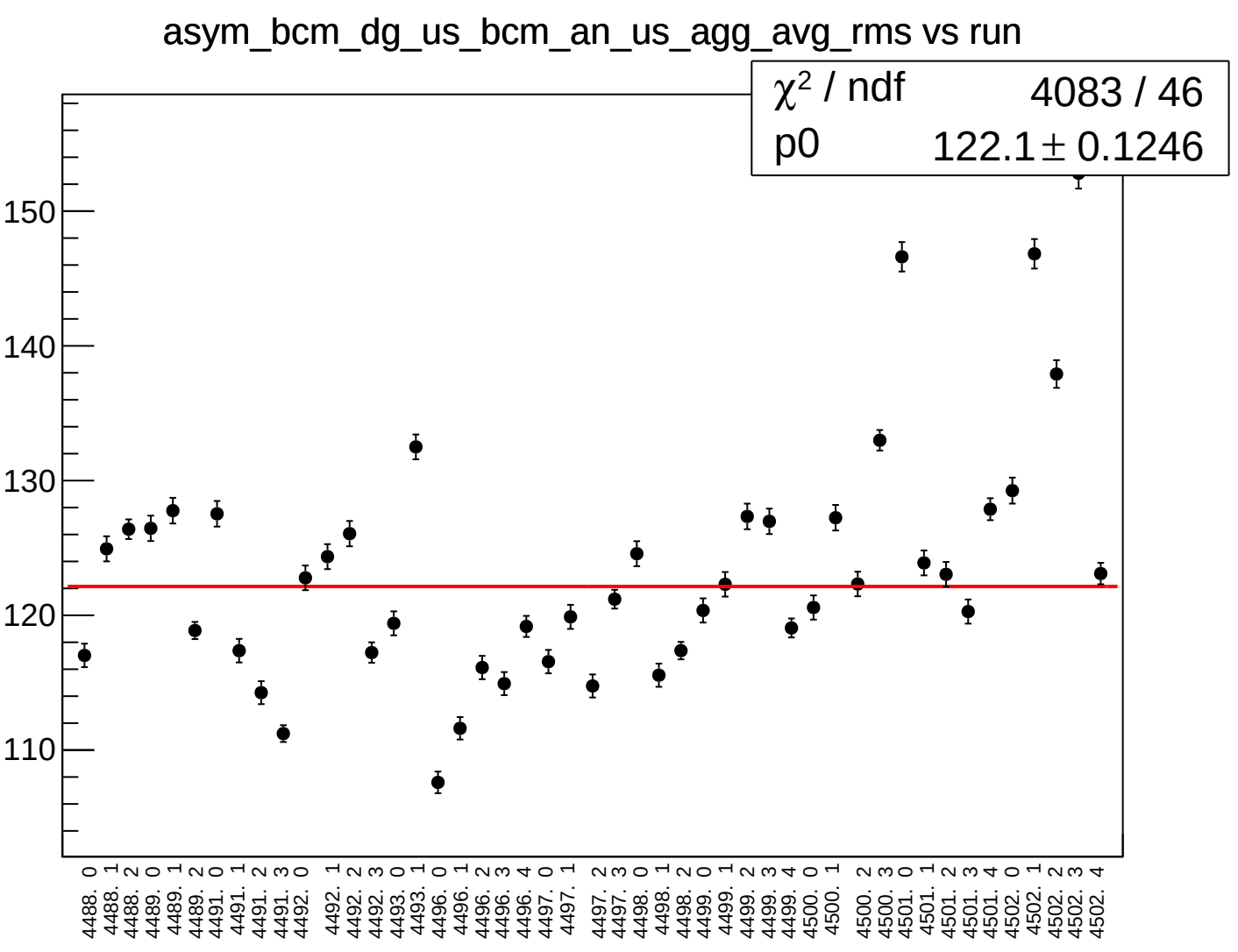

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5038 / 46
p0 121.4 ± 0.1239
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

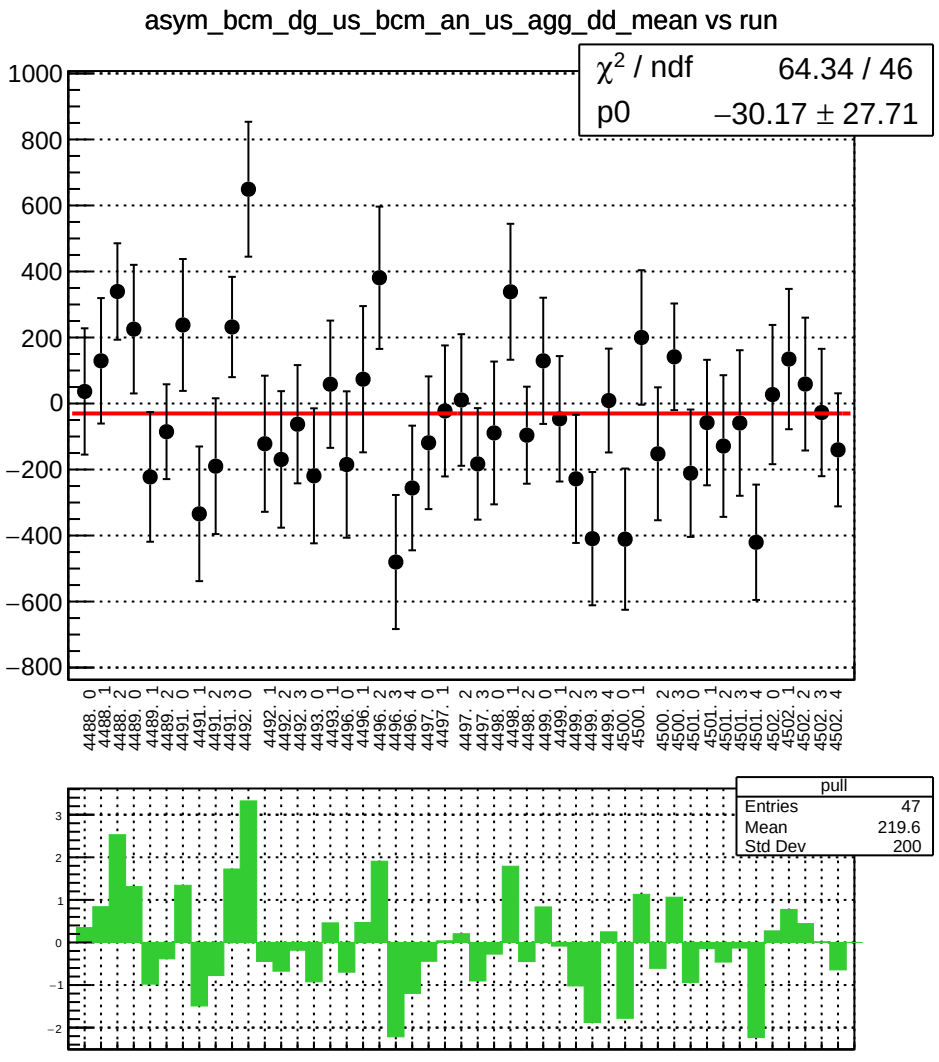

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 47.23 / 46
p0 3.614 ± 24.91
pull
Entries 47
Mean 41.54
Std Dev 25.48

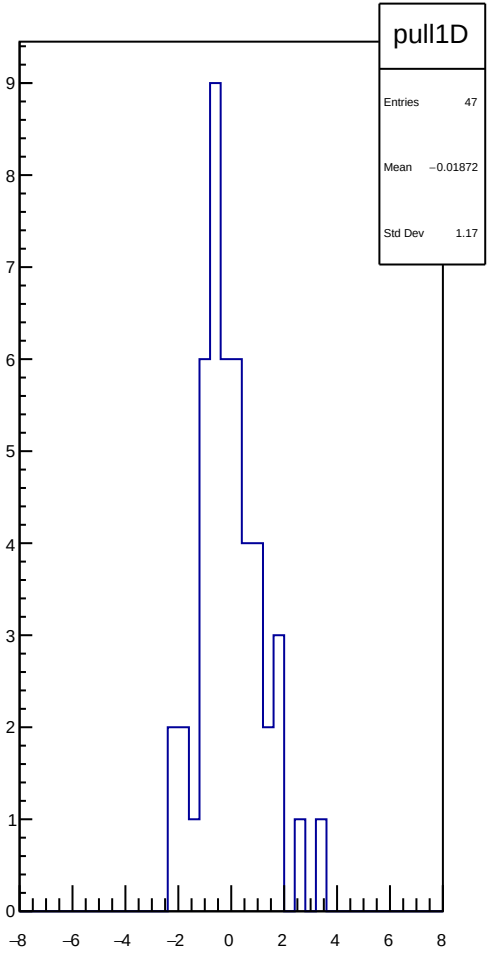

pull1D
Entries 47
Mean −0.02409
Std Dev 1.002

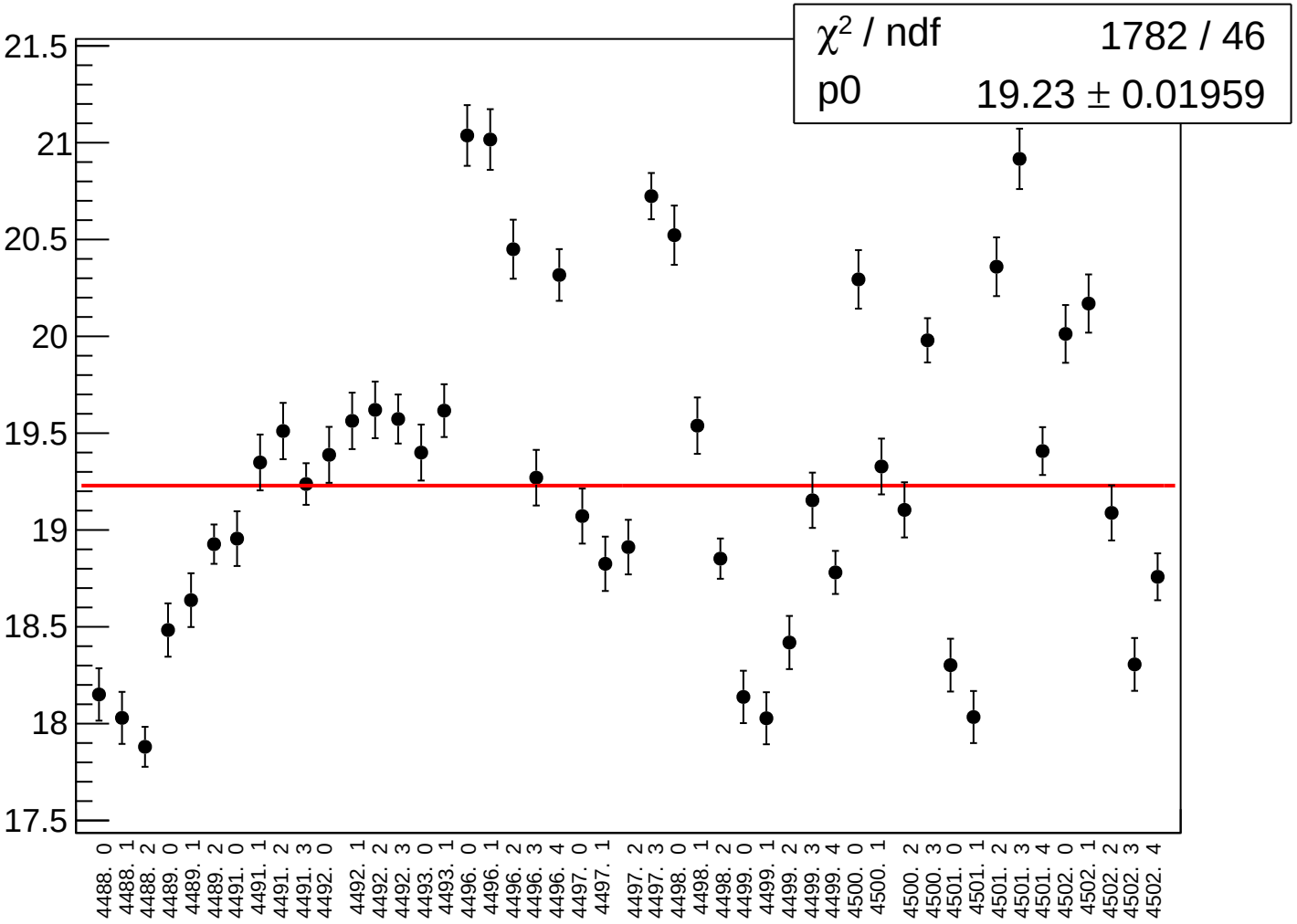

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.403e+04 / 46
p0 16.99 ± 0.01761
26
24
22
20
18
16
14
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

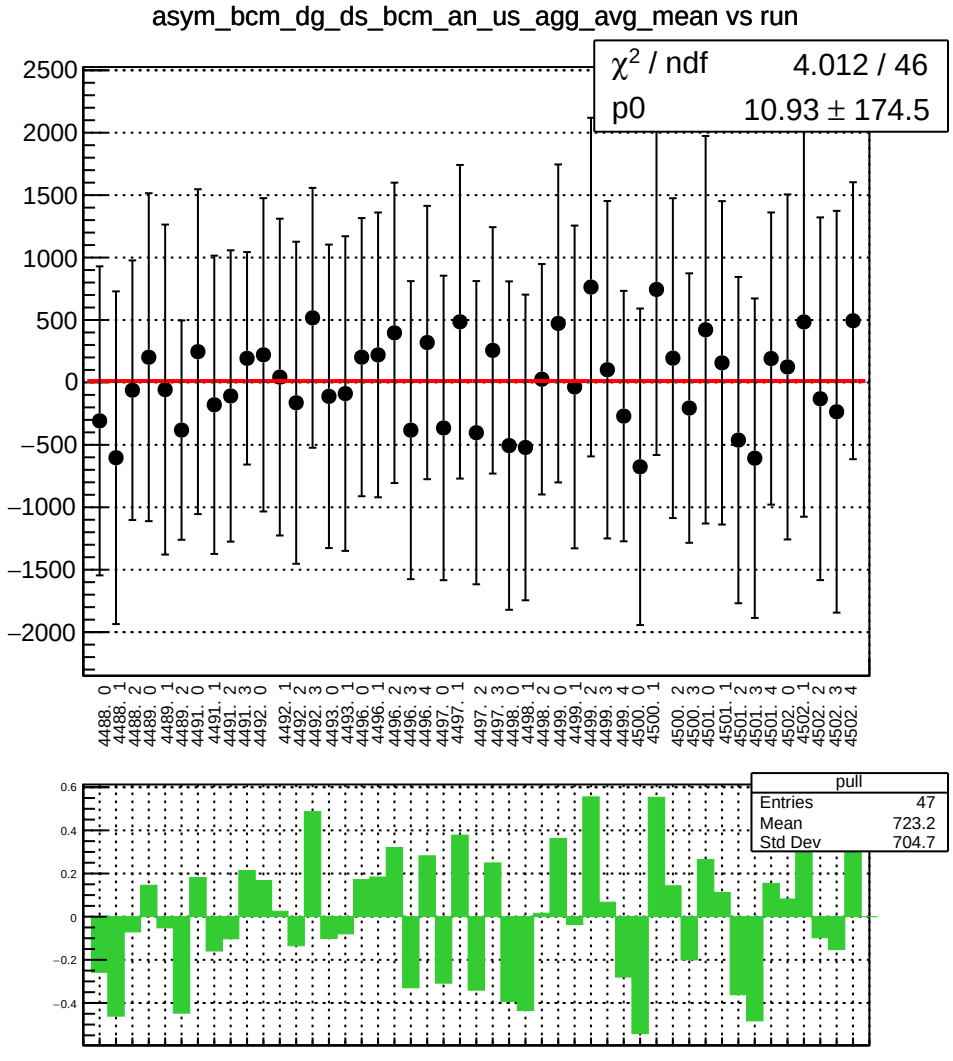

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.799 / 46
p0 18.14 ± 176.2
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 635.6
Std Dev 609
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 47
Mean 0.0004443
Std Dev 0.3803
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

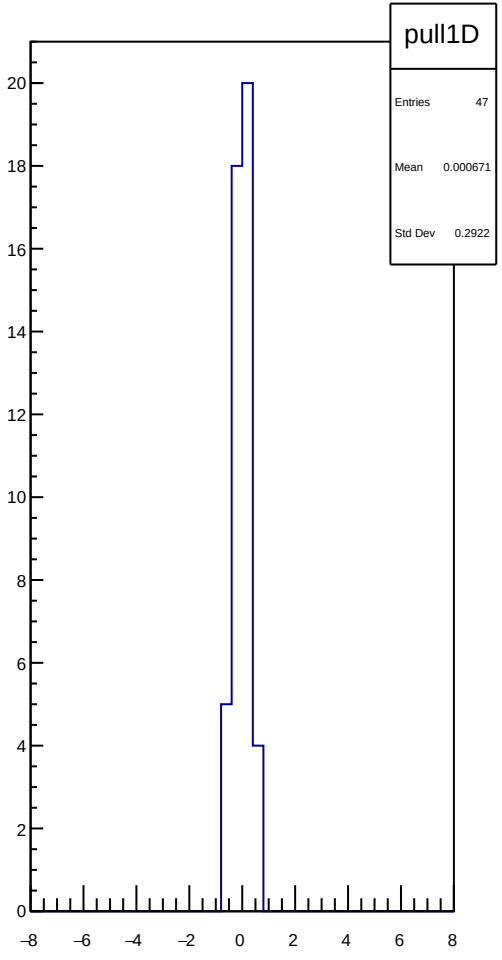

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4083 / 46
p0 122.1 ± 0.1246
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

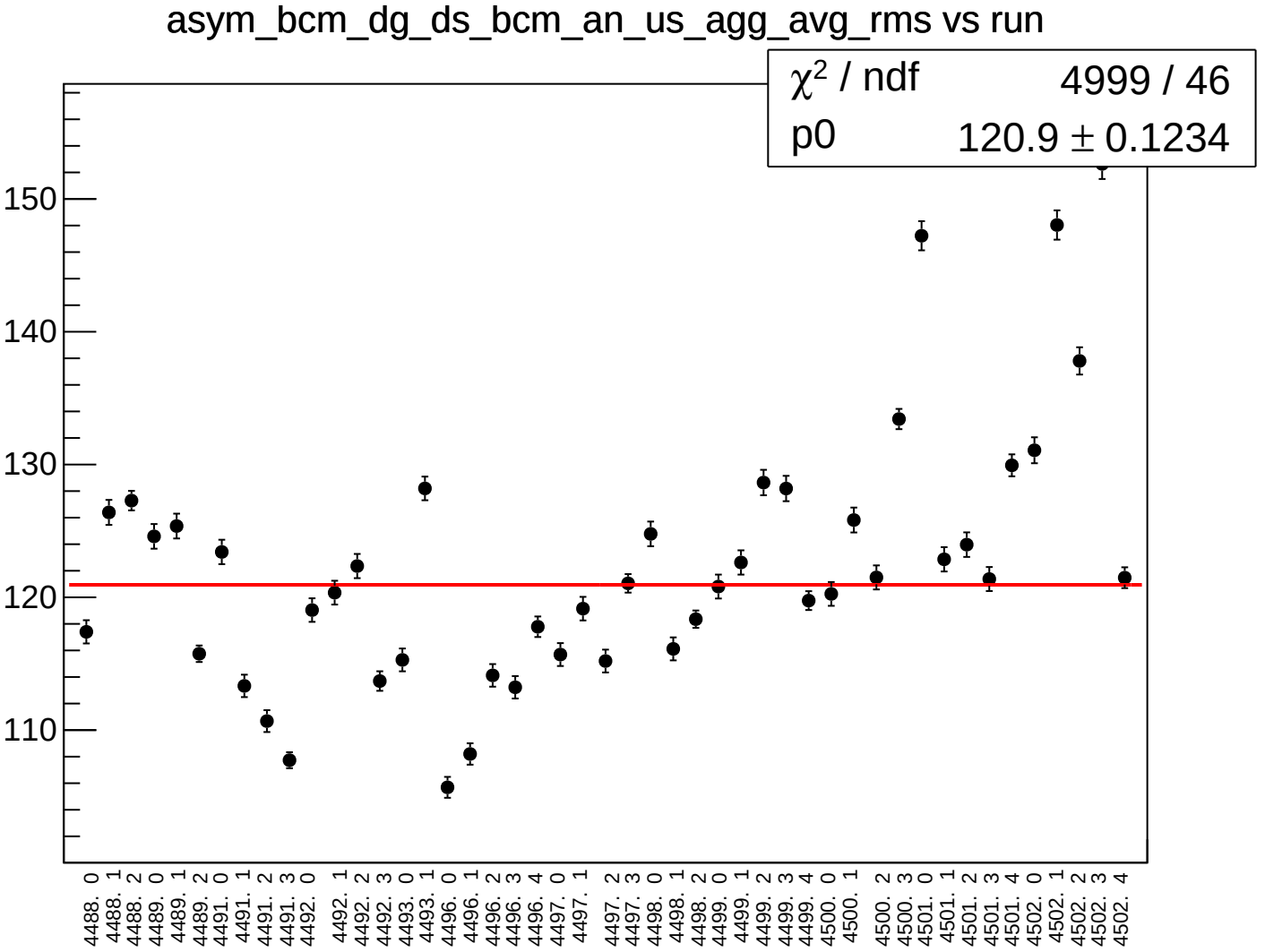

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 64.34 / 46
p0 −30.17 ± 27.71
pull
Entries 47
Mean 219.6
Std Dev 200

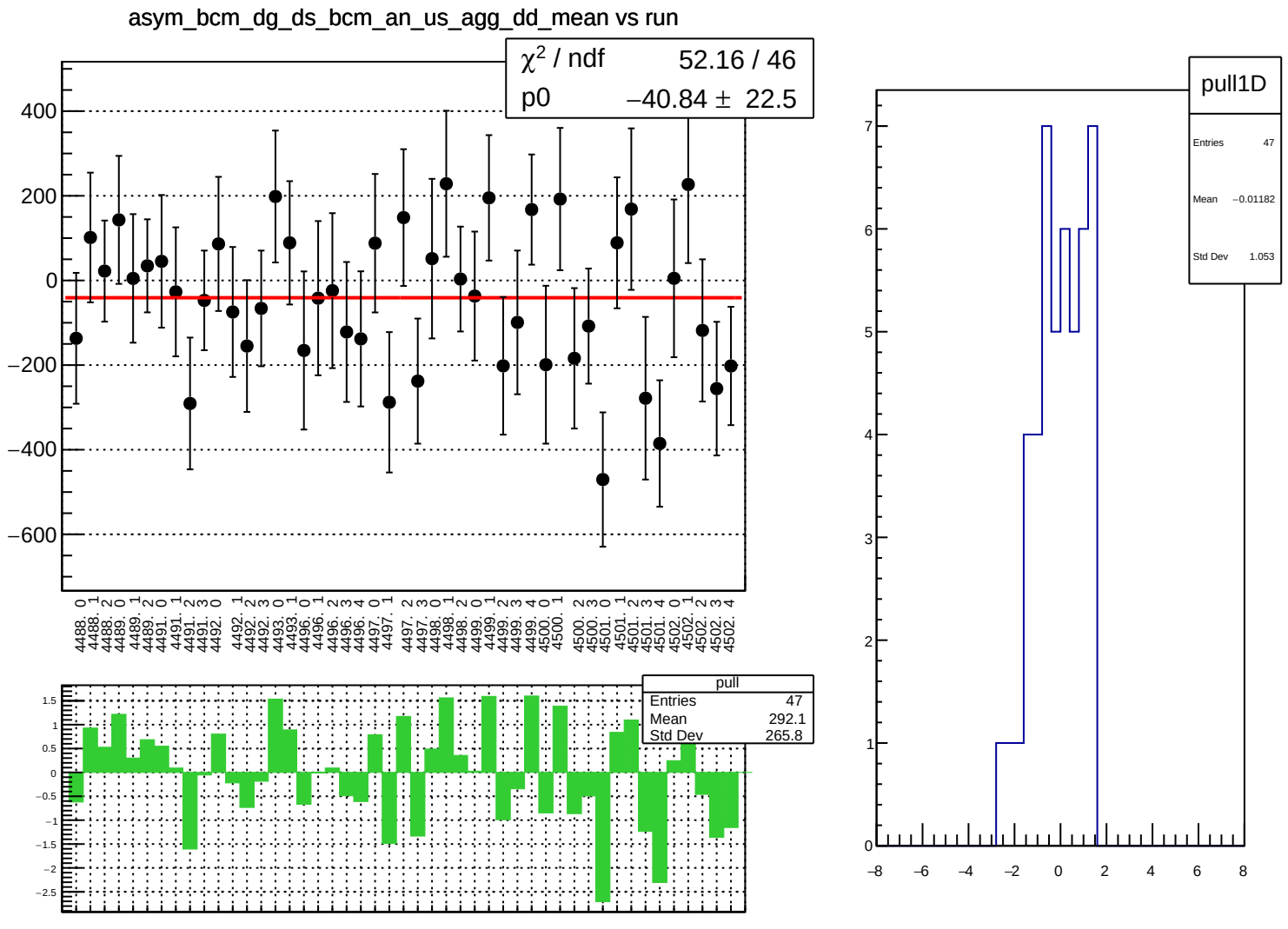

pull1D
Entries 47
Mean −0.01872
Std Dev 1.17

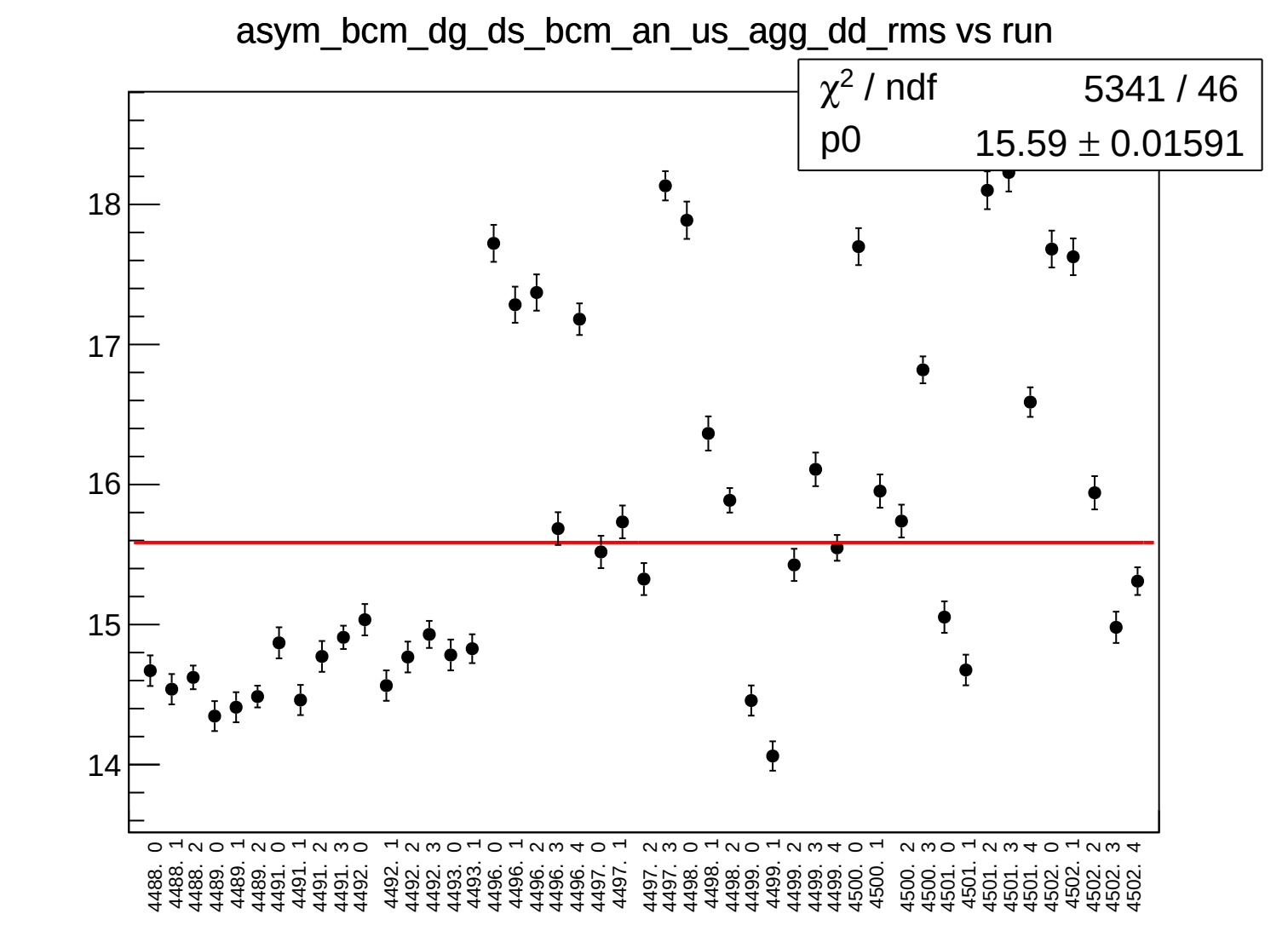

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1782 / 46
p0 19.23 ± 0.01959
21.5
21
20.5
20
19.5
19
18.5
18
17.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

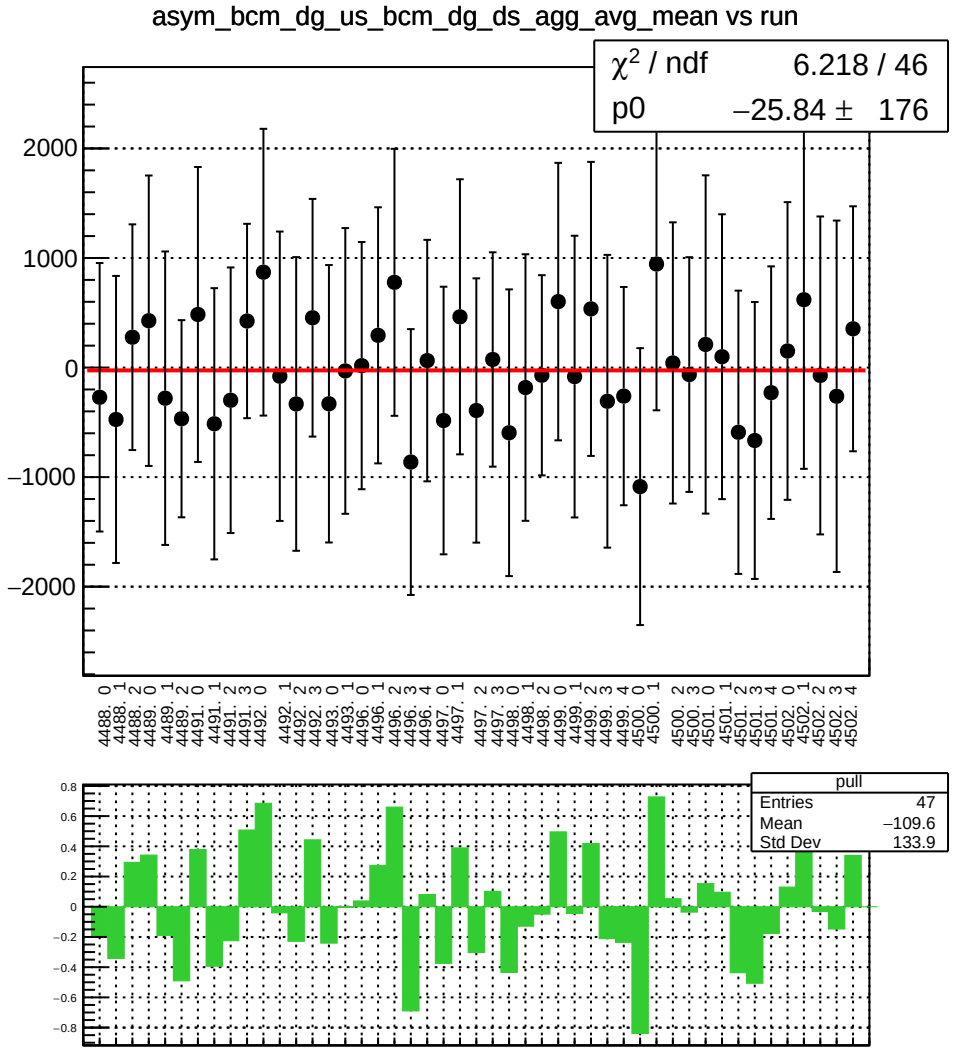

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.012 / 46
p0 10.93 ± 174.5
pull
Entries 47
Mean 723.2
Std Dev 704.7

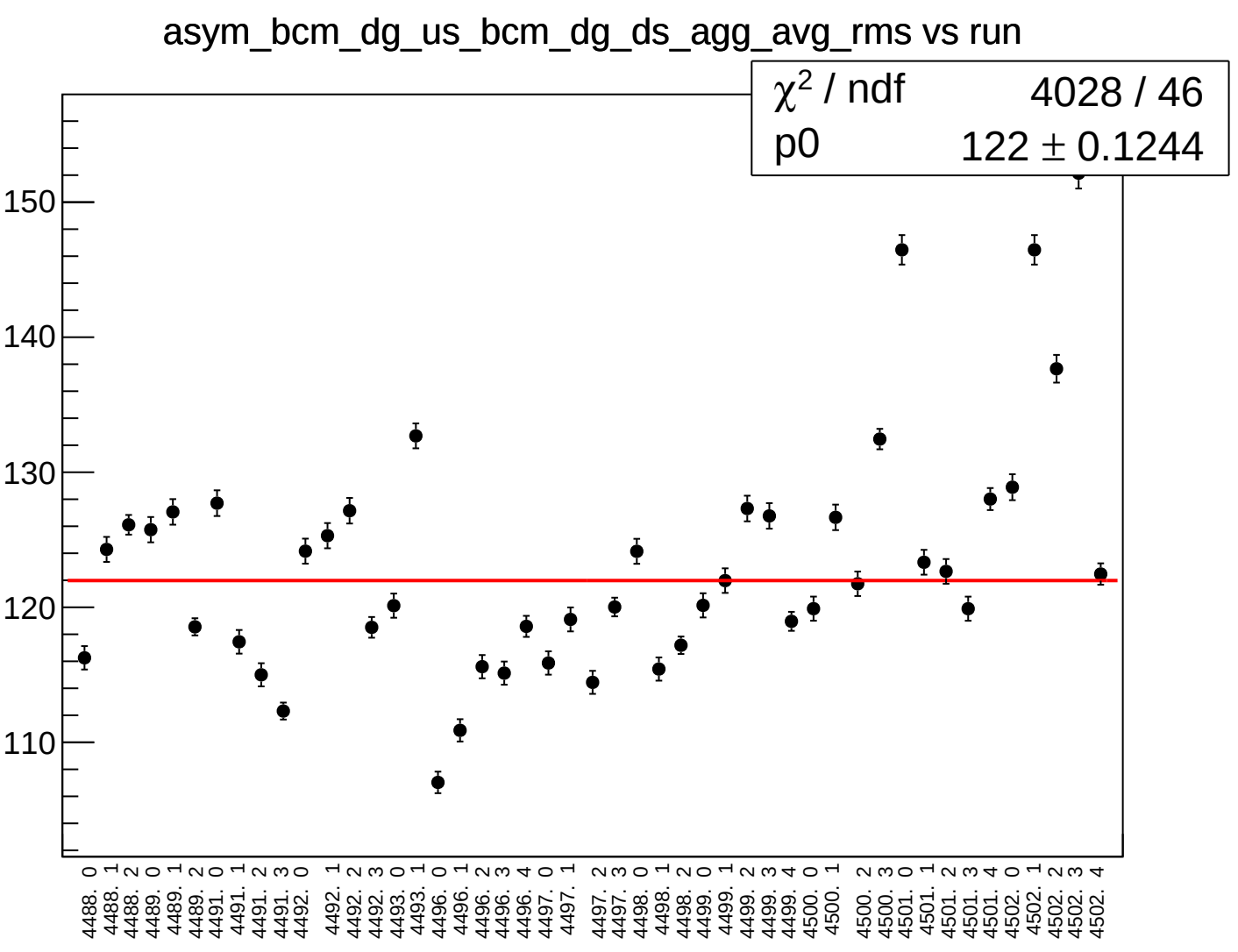

pull1D
Entries 47
Mean 0.000671
Std Dev 0.2922

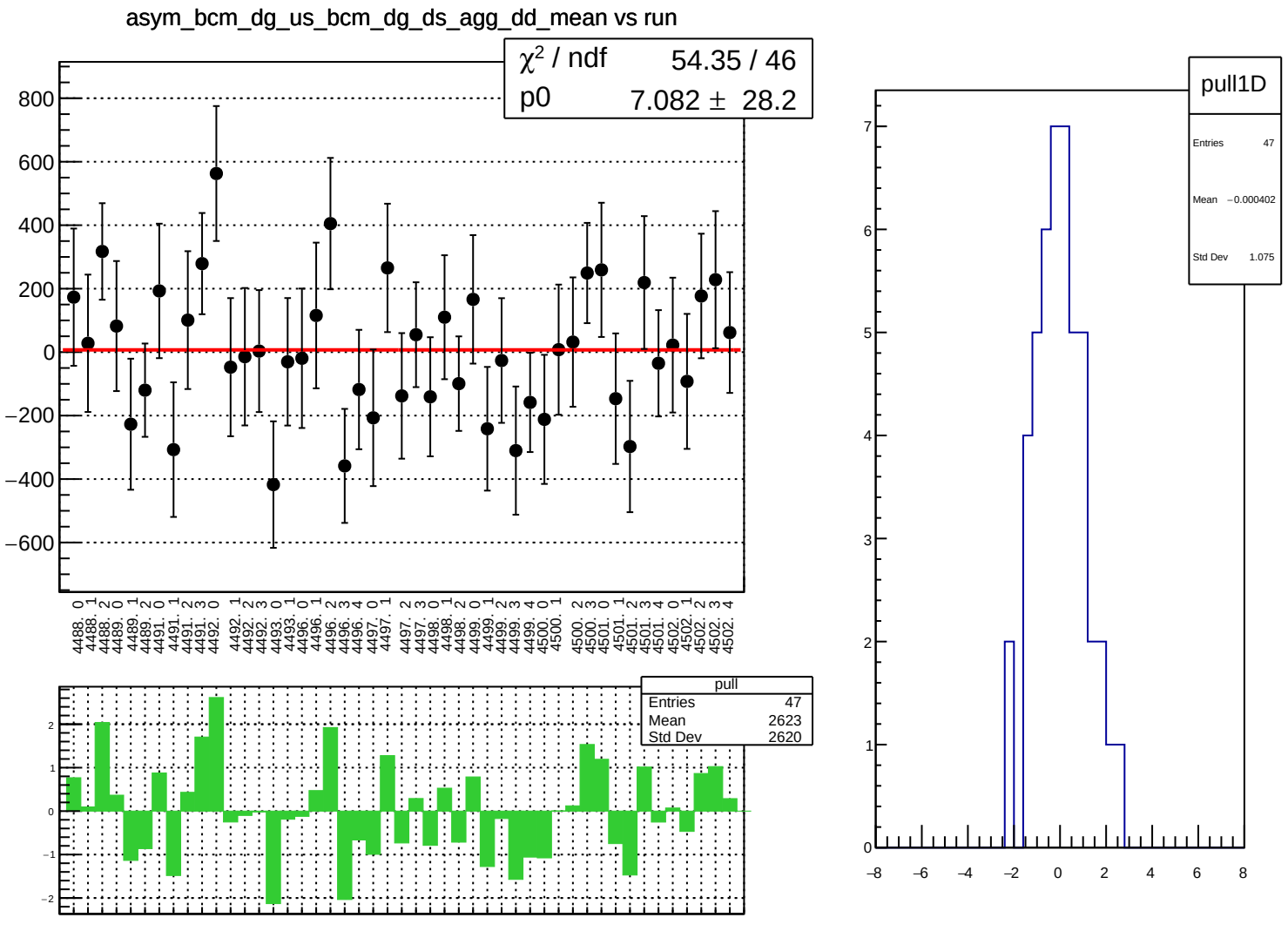

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4999 / 46
p0 120.9 ± 0.1234
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

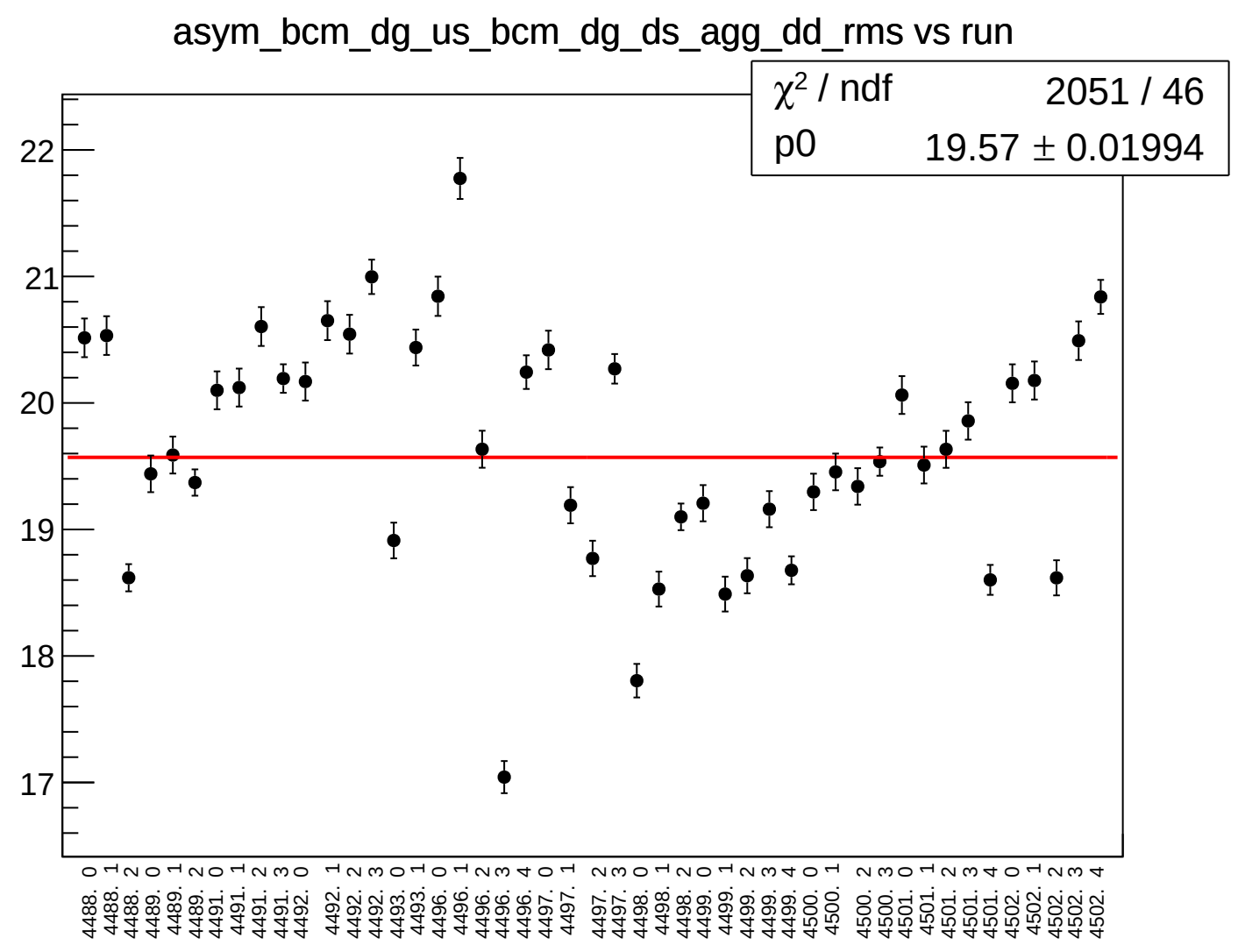

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 52.16 / 46
p0 −40.84 ± 22.5
400
200
0
−200
−400
−600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 292.1
Std Dev 265.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean −0.01182
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

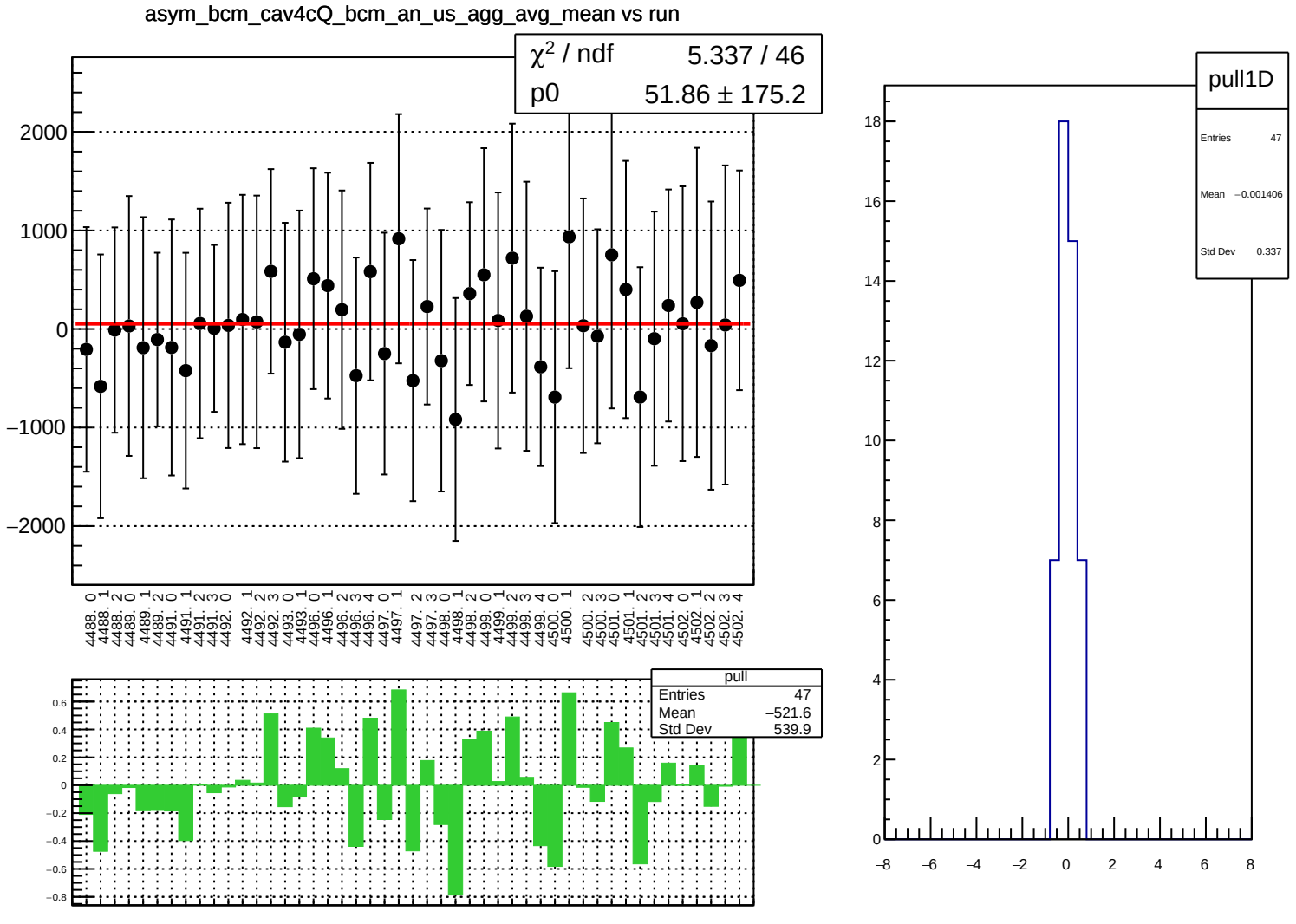

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5341 / 46
p0 15.59 ± 0.01591
18
17
16
15
14
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

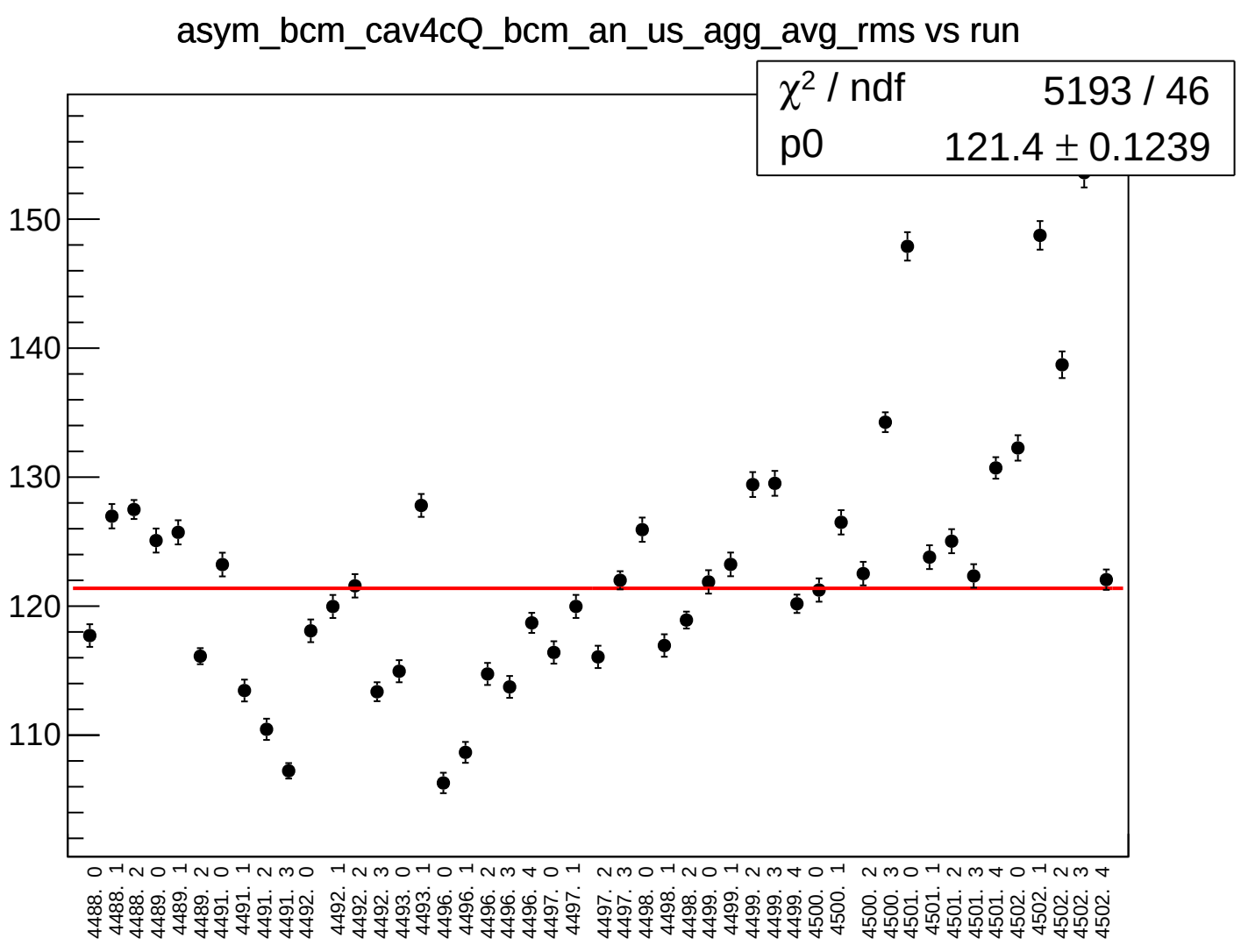

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 6.218 / 46
p0 −25.84 ± 176
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −109.6
Std Dev 133.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean 0.0005599
Std Dev 0.3637
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

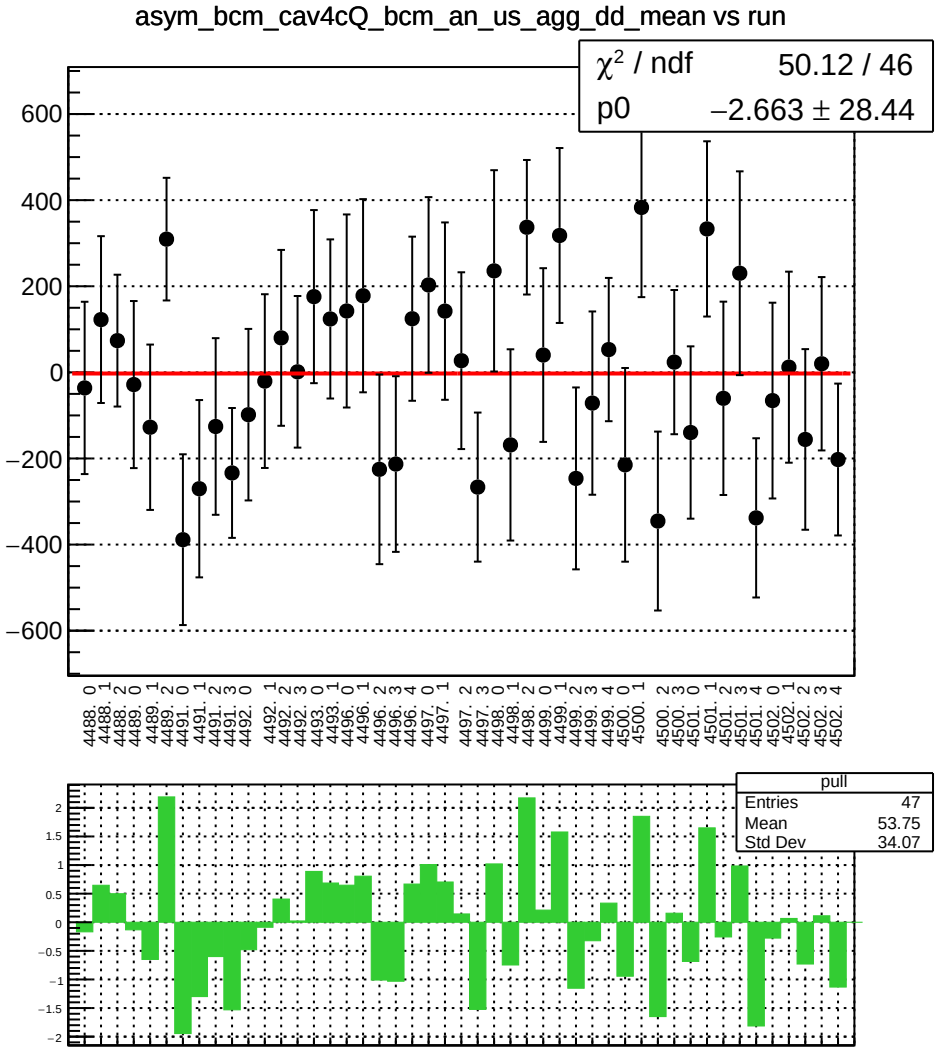

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4028 / 46
p0 122 ± 0.1244
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

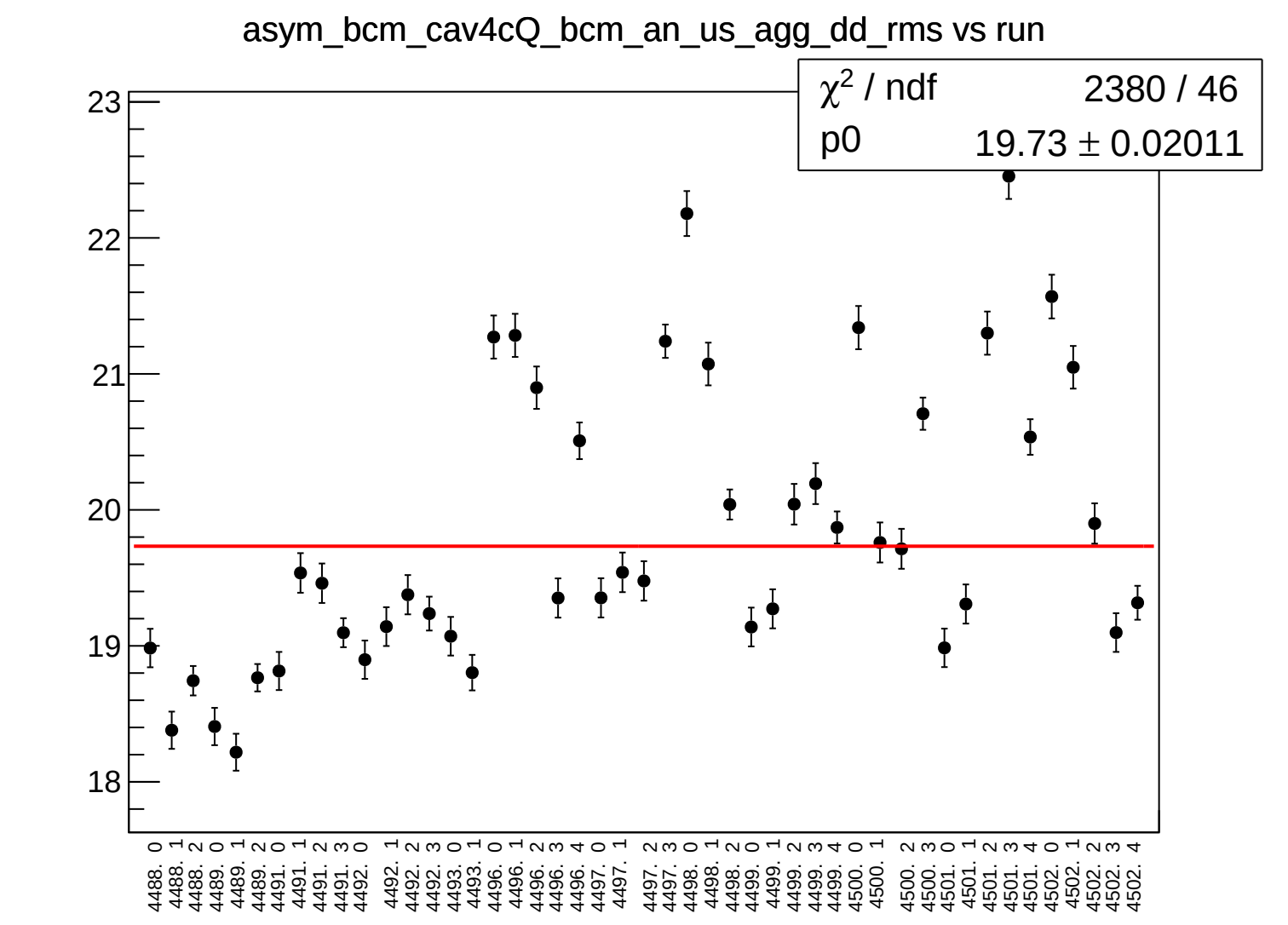

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.35 / 46
p0 7.082 ± 28.2
pull
Entries 47
Mean 2623
Std Dev 2620
pull1D
Entries 47
Mean −0.000402
Std Dev 1.075

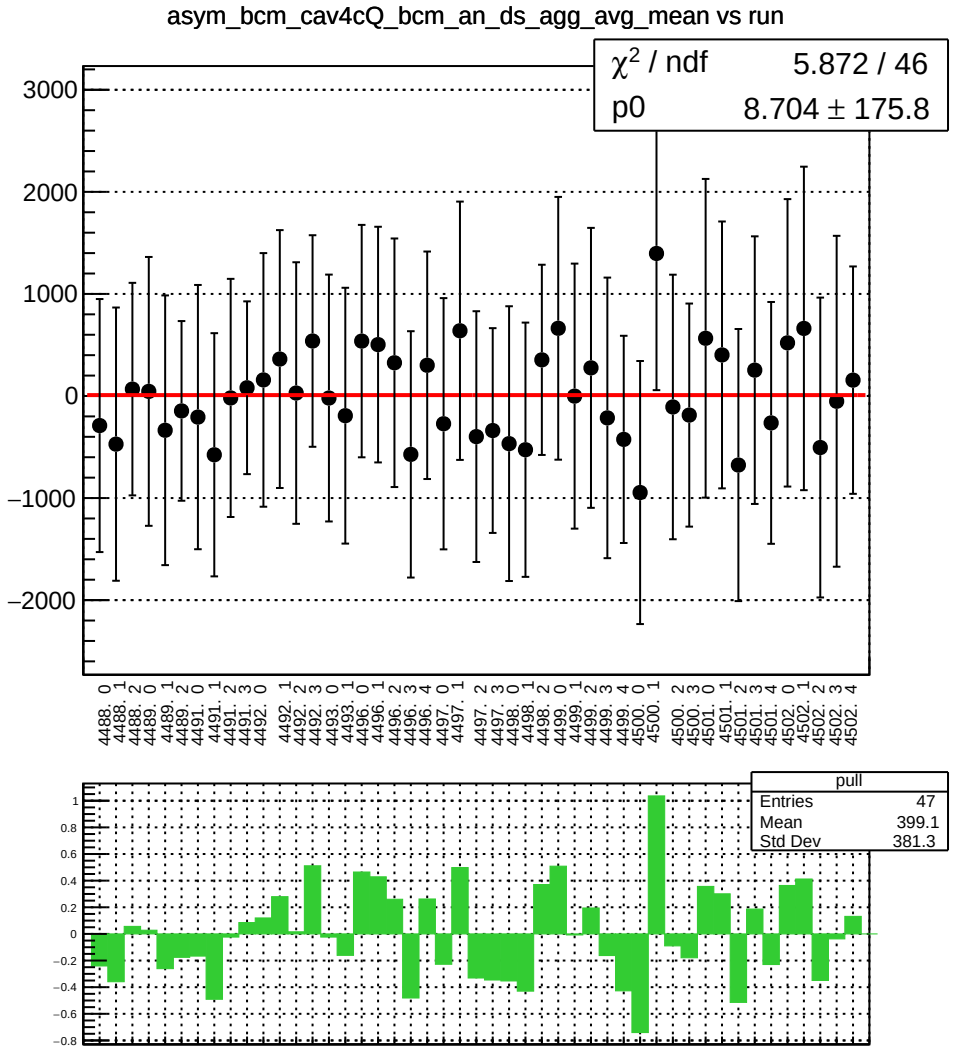

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2051 / 46
p0 19.57 ± 0.01994
22
21
20
19
18
17
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

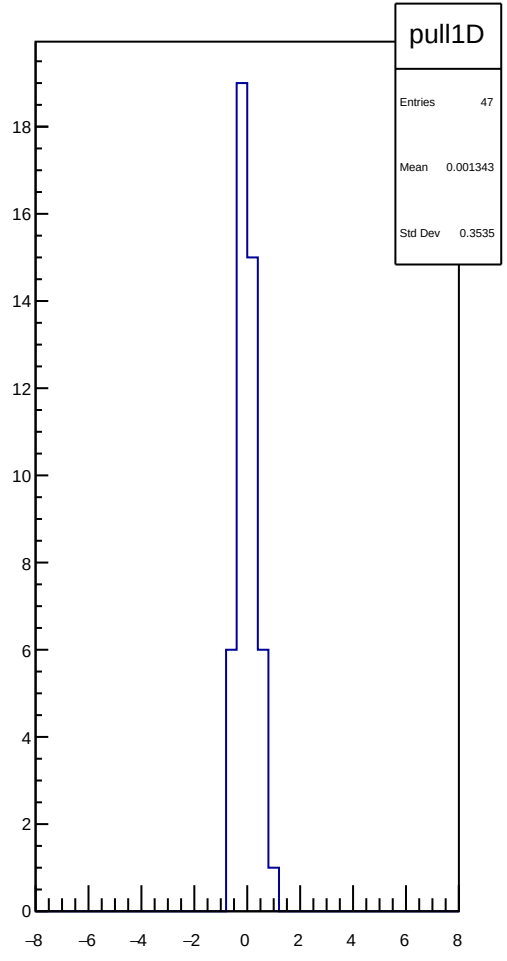

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.337 / 46
p0 51.86 ± 175.2
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −521.6
Std Dev 539.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean −0.001406
Std Dev 0.337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

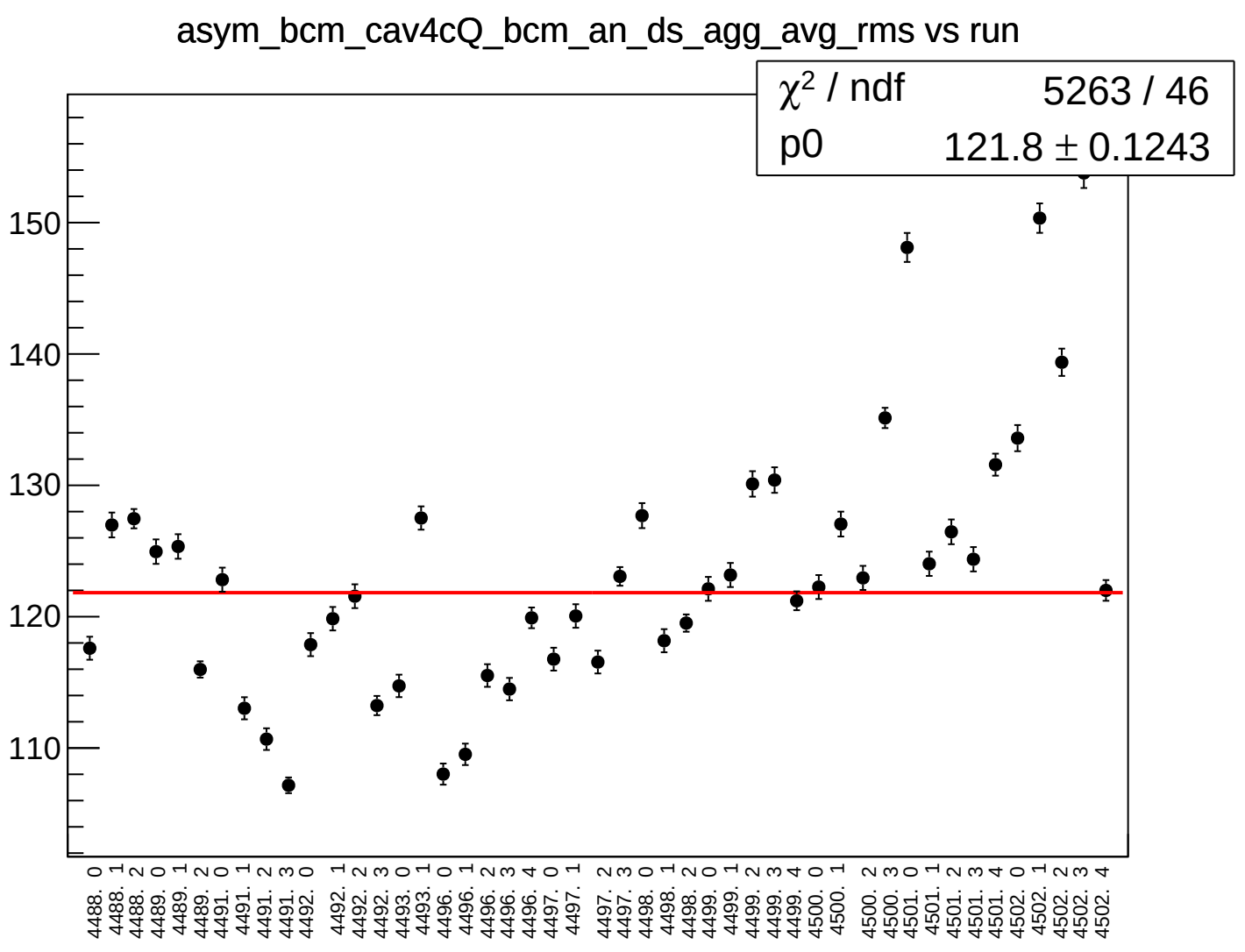

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5193 / 46
p0 121.4 ± 0.1239
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

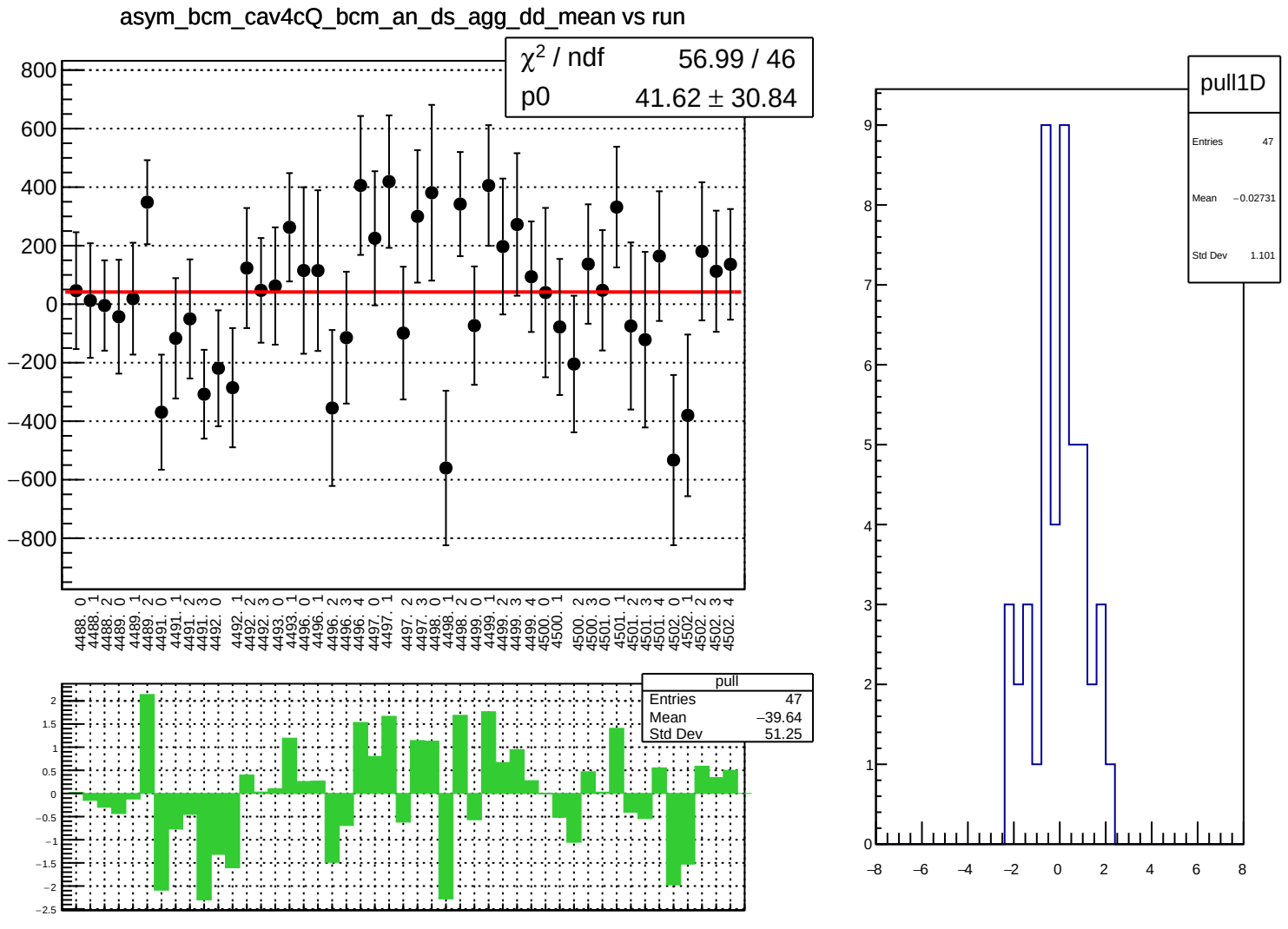

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.12 / 46
p0 −2.663 ± 28.44
600
400
200
0
−200
−400
−600
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 53.75
Std Dev 34.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.01507
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

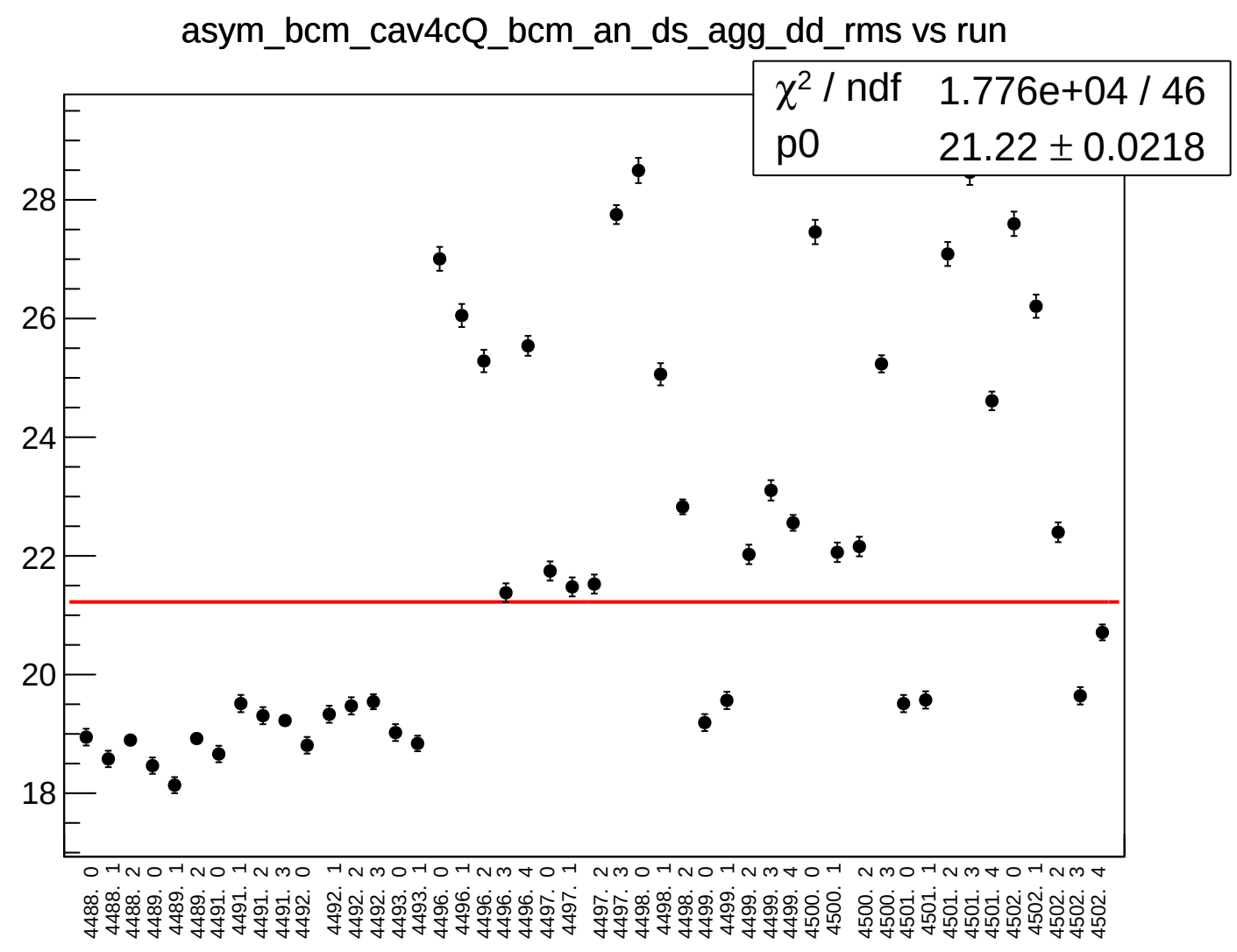

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2380 / 46
p0 19.73 ± 0.02011
23
22
21
20
19
18
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

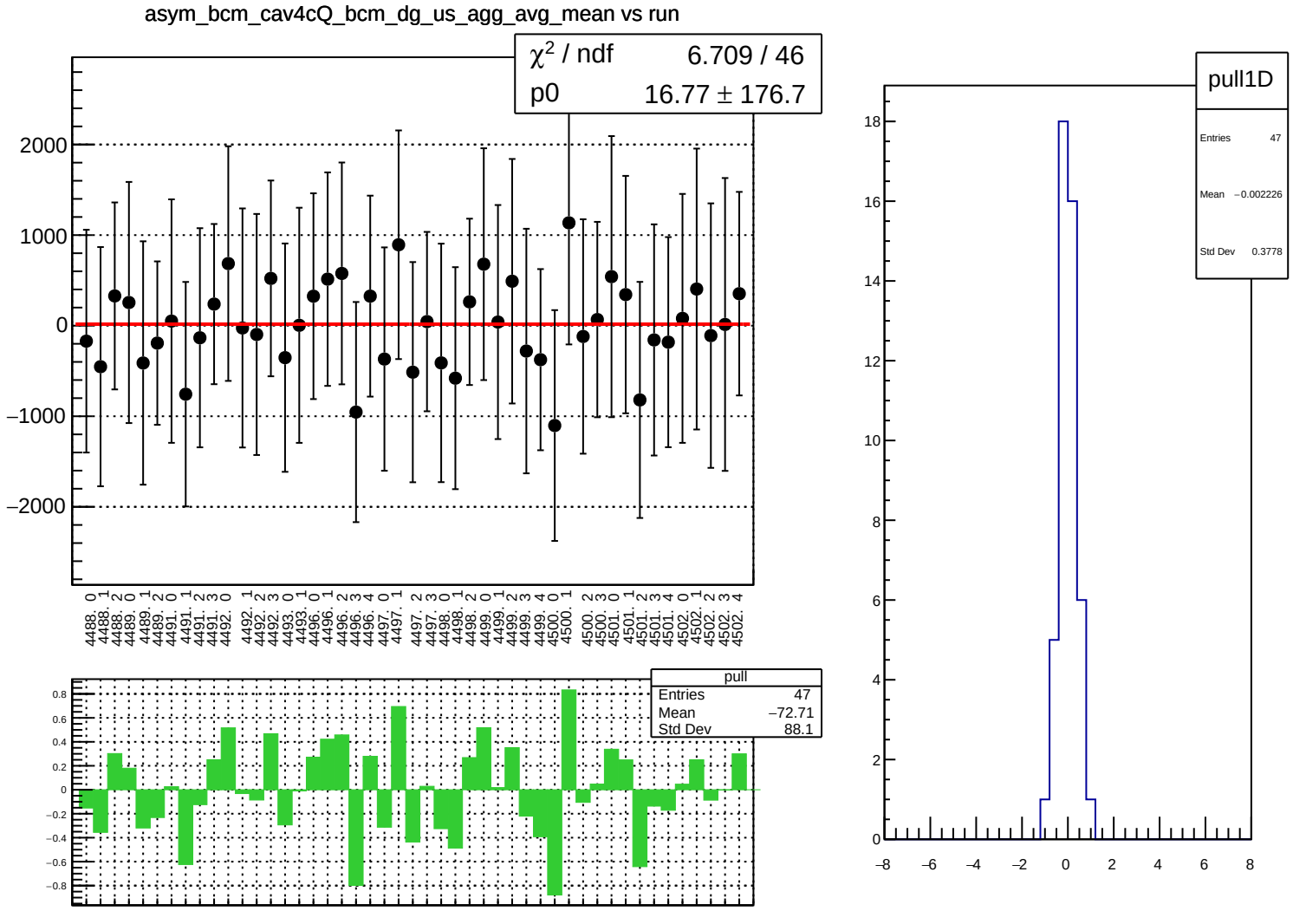

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.872 / 46
p0 8.704 ± 175.8
pull
Entries 47
Mean 399.1
Std Dev 381.3

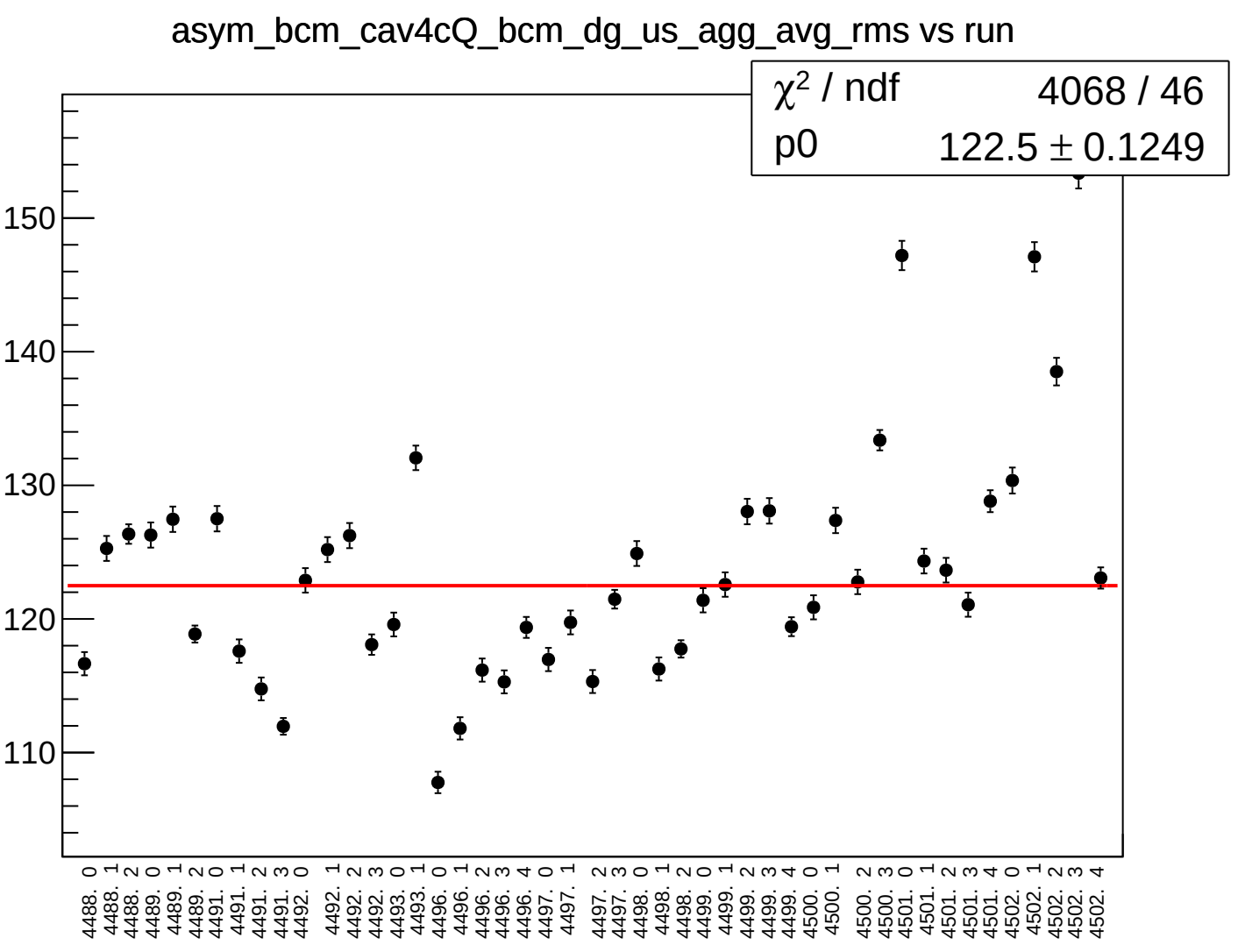

pull1D
Entries 47
Mean 0.001343
Std Dev 0.3535

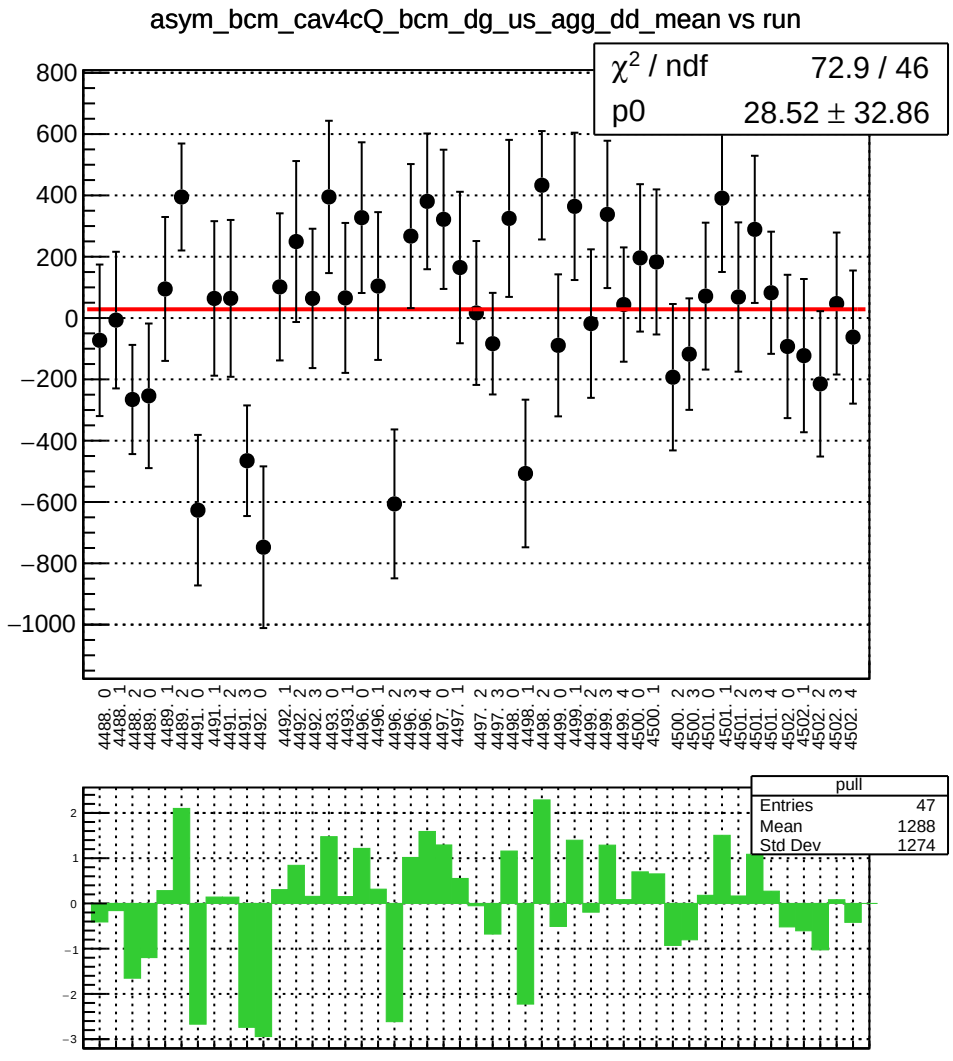

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5263 / 46
p0 121.8 ± 0.1243
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

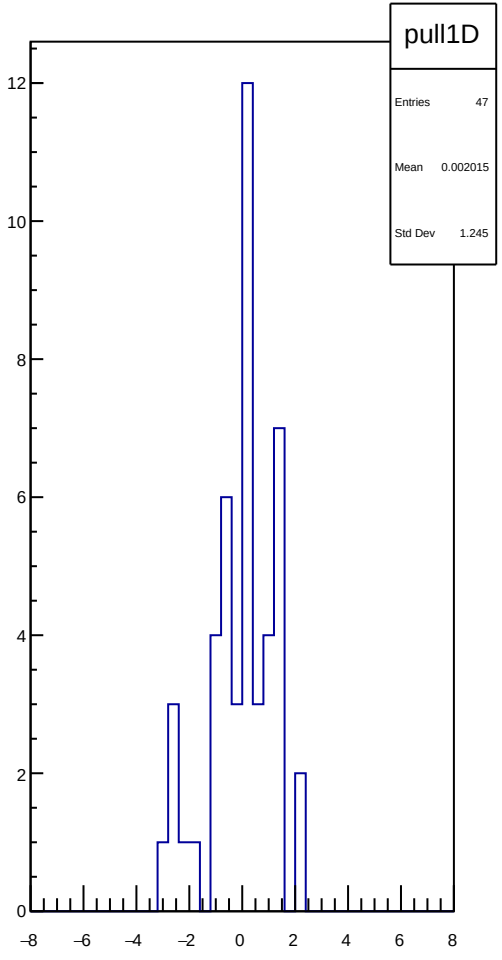

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 56.99 / 46
p0 41.62 ± 30.84
pull
Entries 47
Mean −39.64
Std Dev 51.25
pull1D
Entries 47
Mean −0.02731
Std Dev 1.101

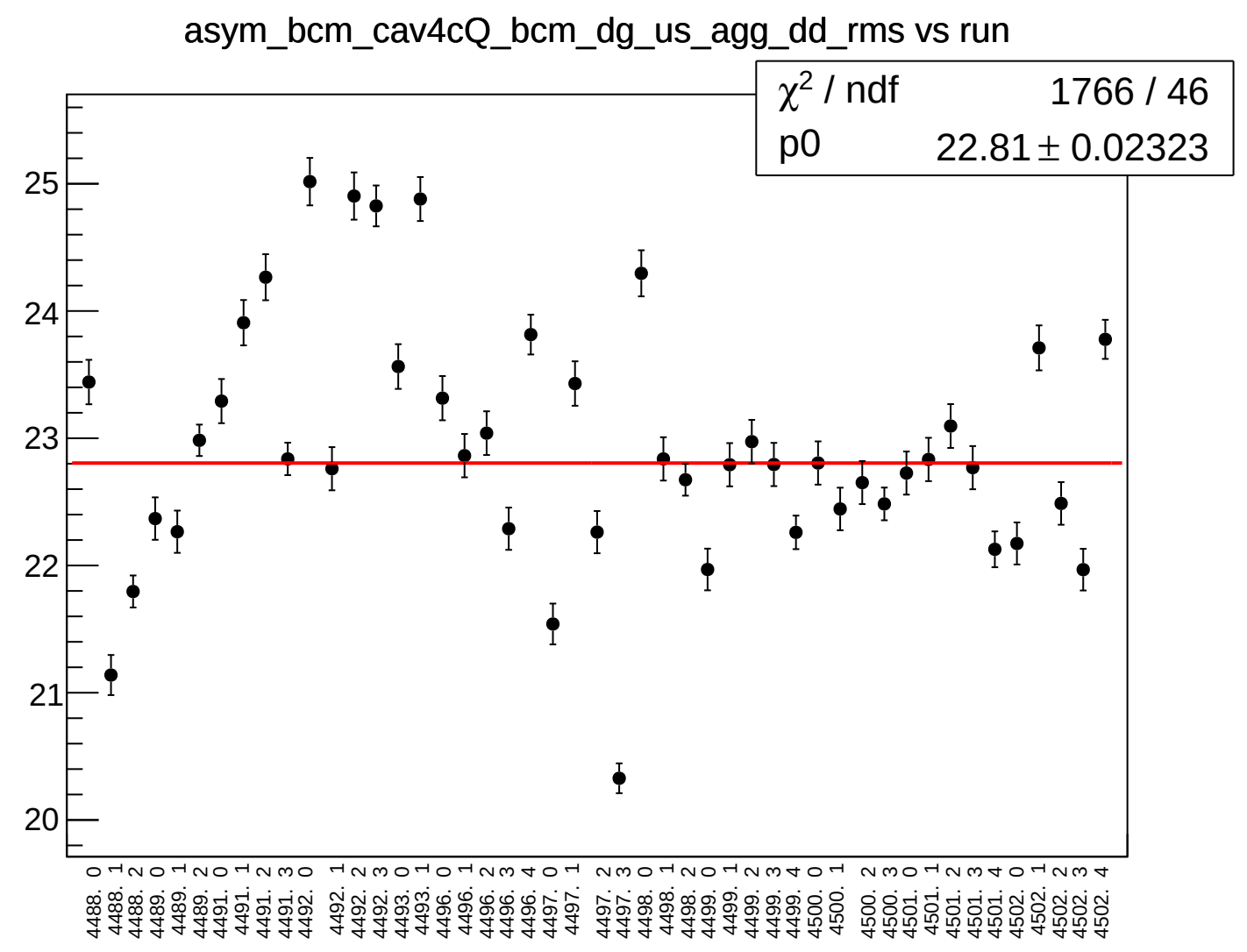

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.776e+04 / 46
p0 21.22 ± 0.0218
28
26
24
22
20
18
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

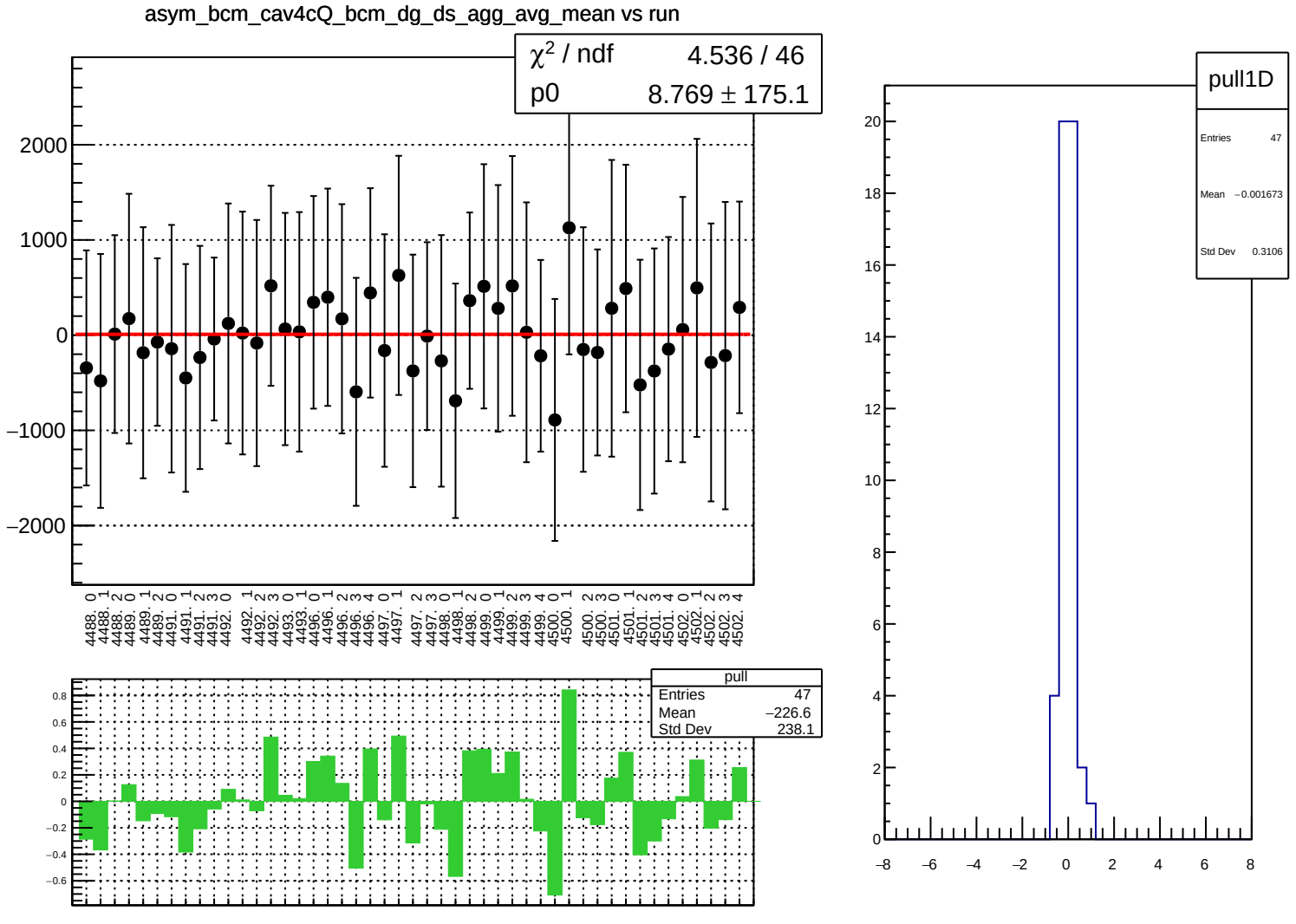

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 6.709 / 46
p0 16.77 ± 176.7
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −72.71
Std Dev 88.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean −0.002226
Std Dev 0.3778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

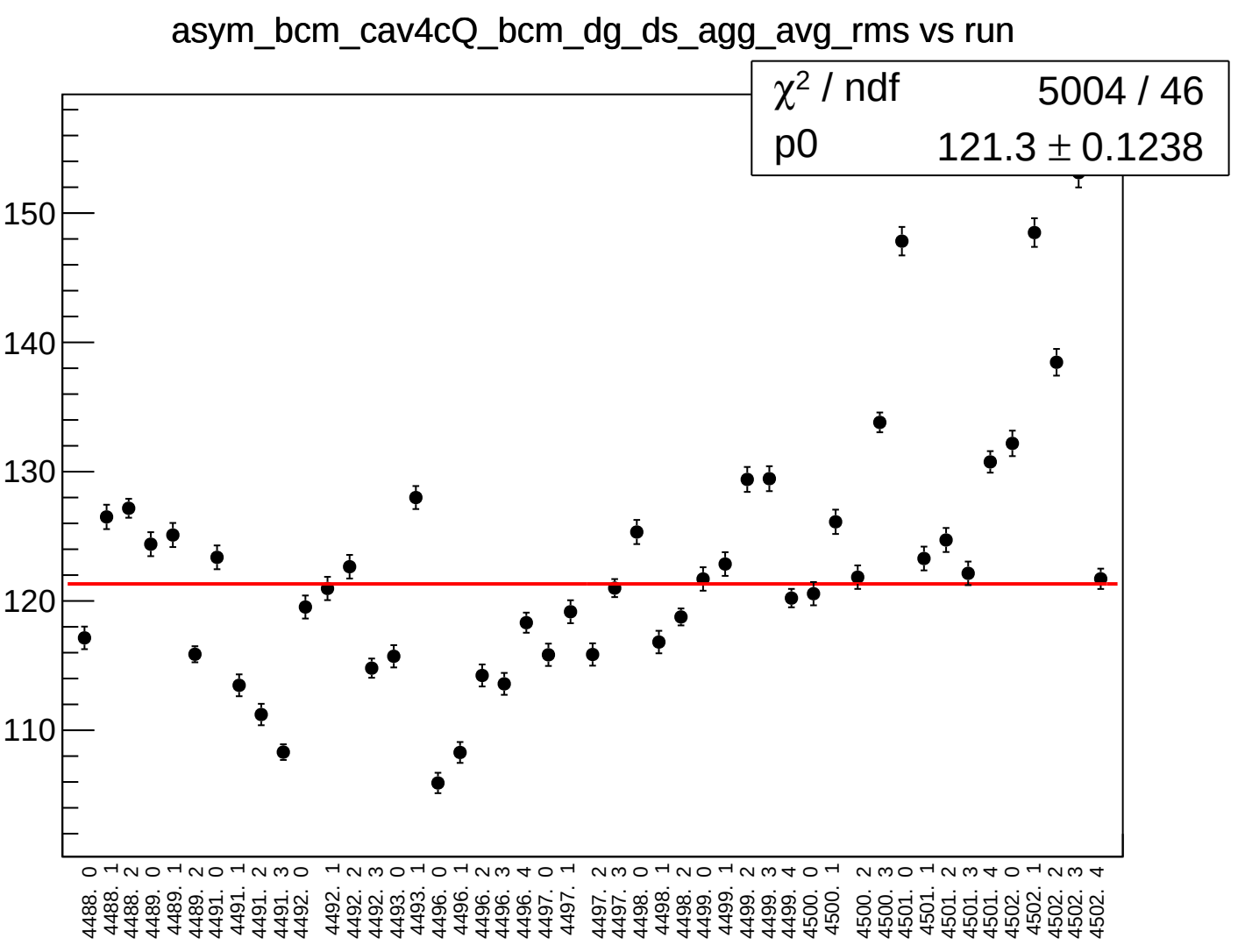

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4068 / 46
p0 122.5 ± 0.1249
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

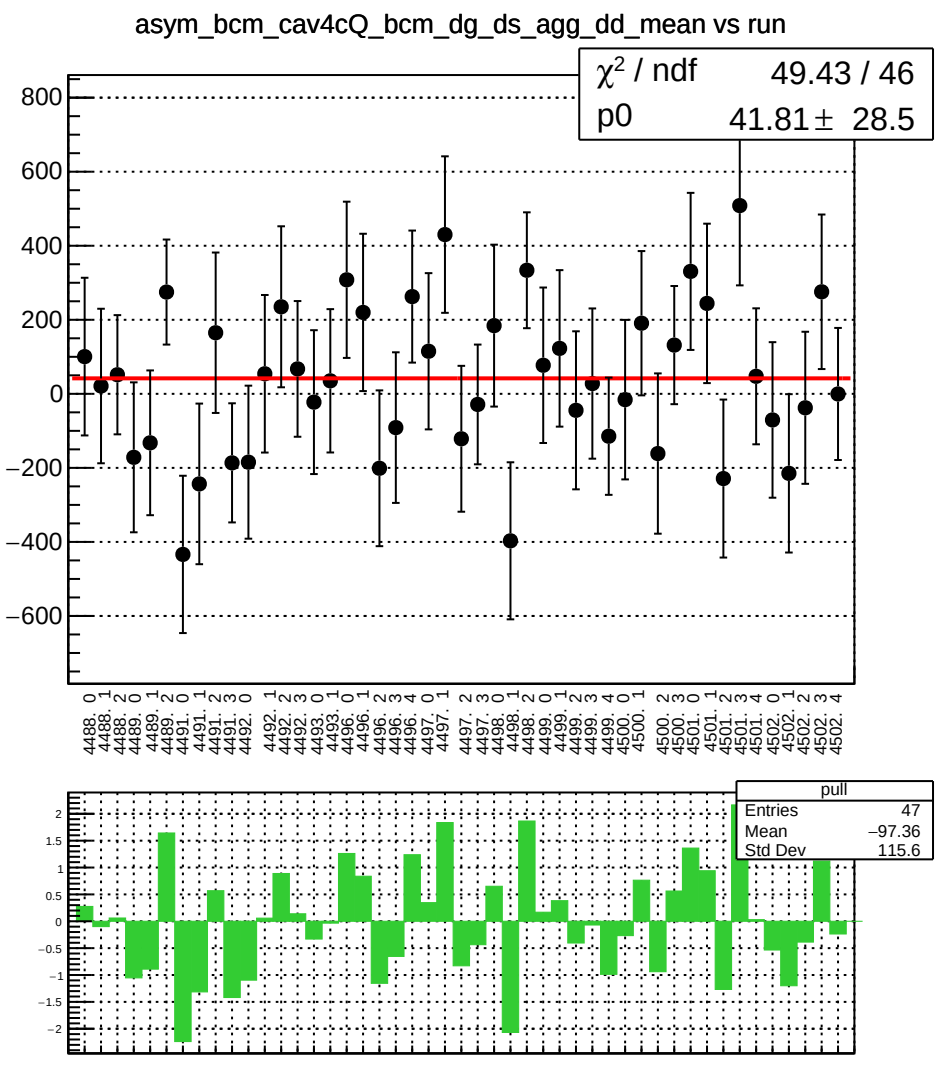

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 72.9 / 46
p0 28.52 ± 32.86
pull
Entries 47
Mean 1288
Std Dev 1274

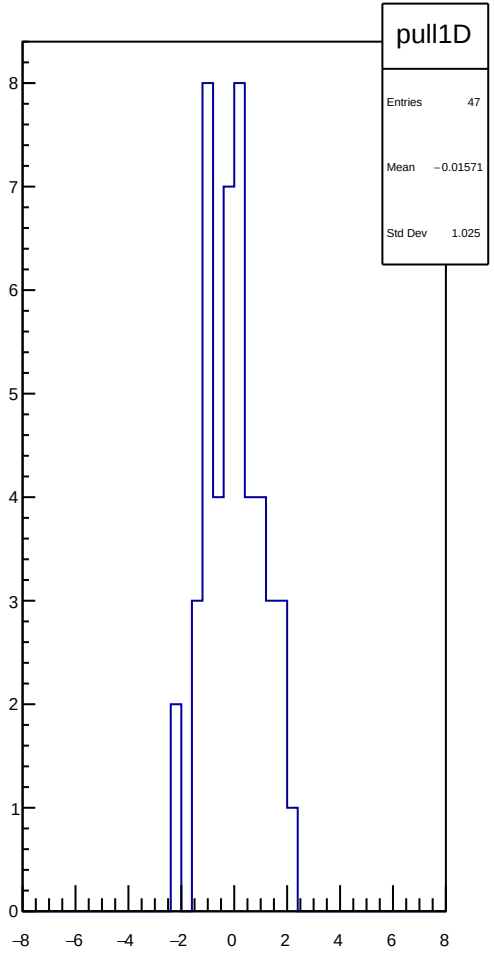

pull1D
Entries 47
Mean 0.002015
Std Dev 1.245

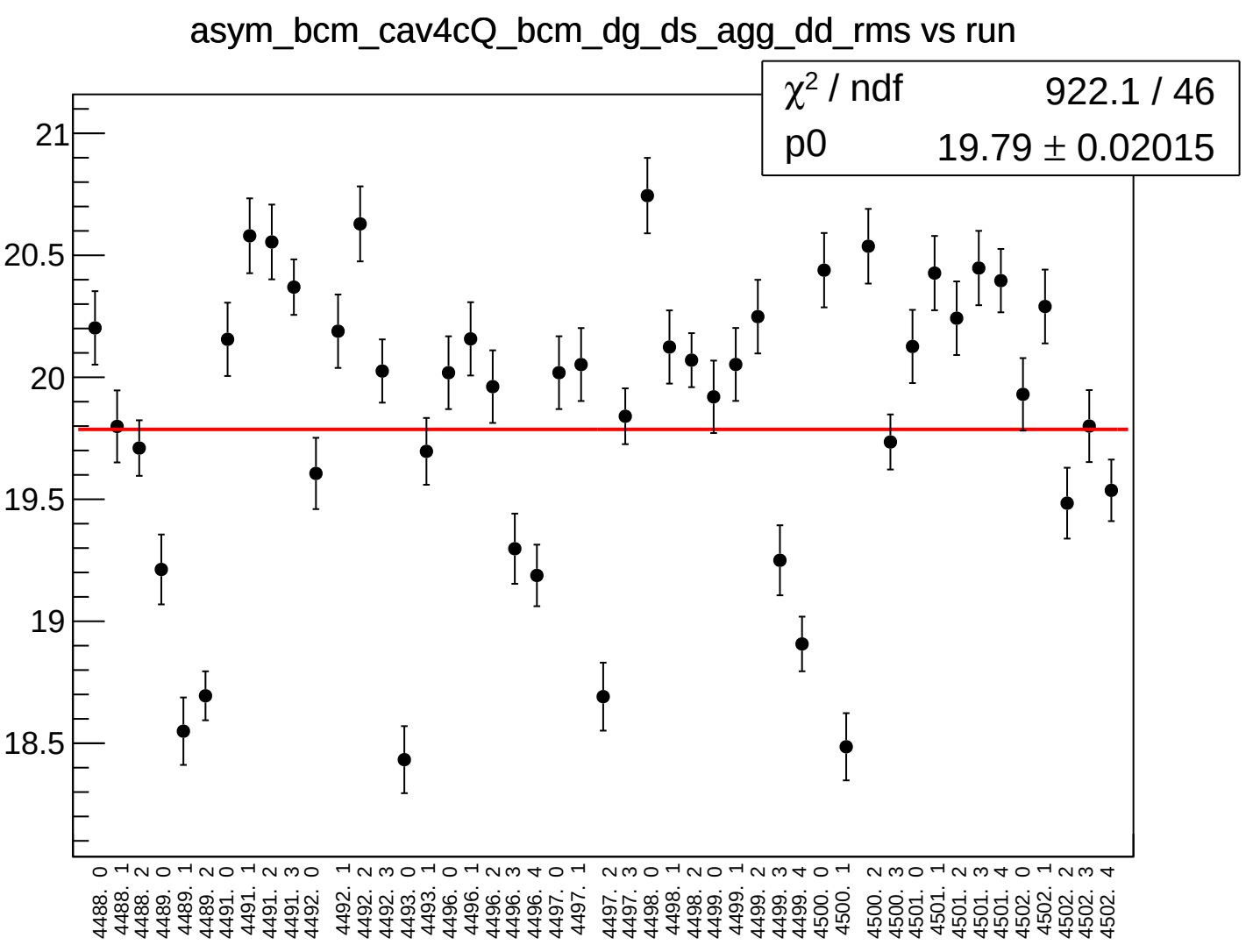

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1766 / 46
p0 22.81 ± 0.02323
25
24
23
22
21
20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

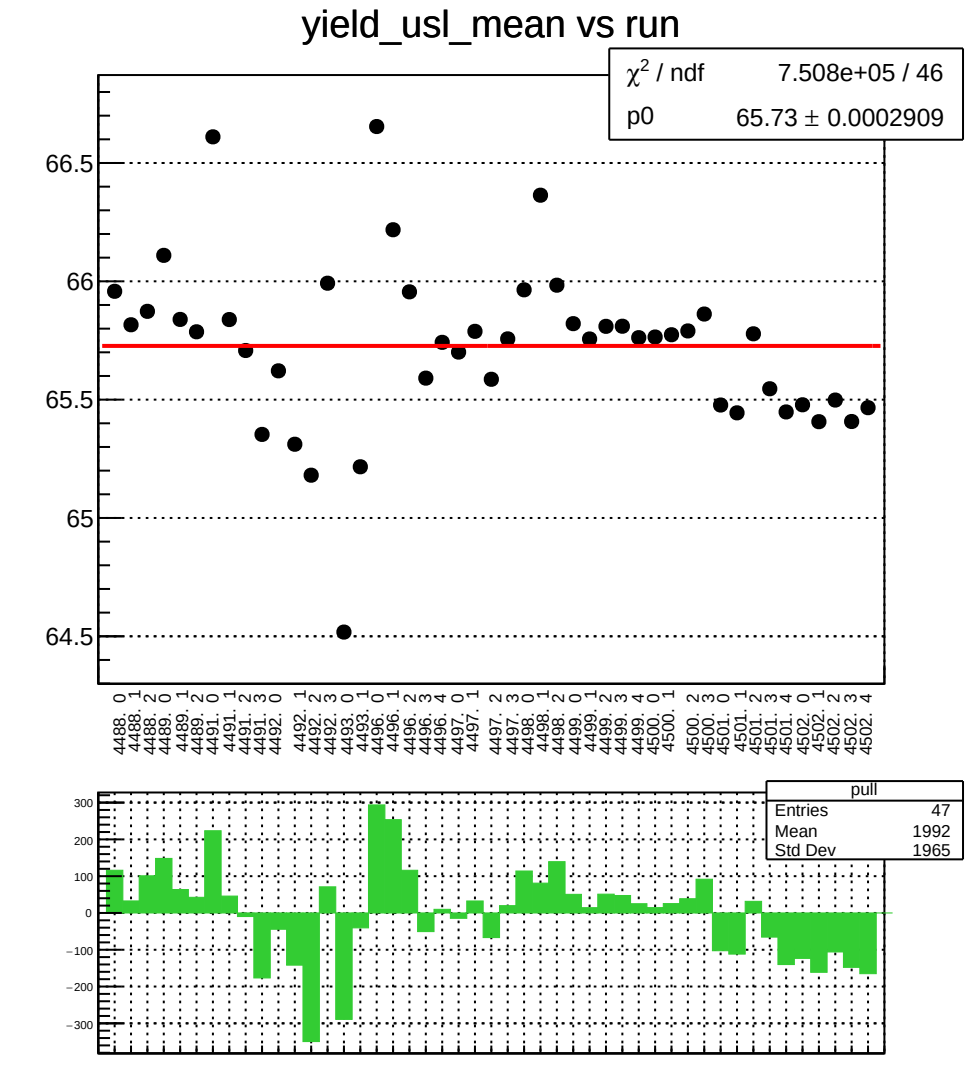

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.536 / 46
p0 8.769 ± 175.1
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −226.6
Std Dev 238.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 47
Mean −0.001673
Std Dev 0.3106
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

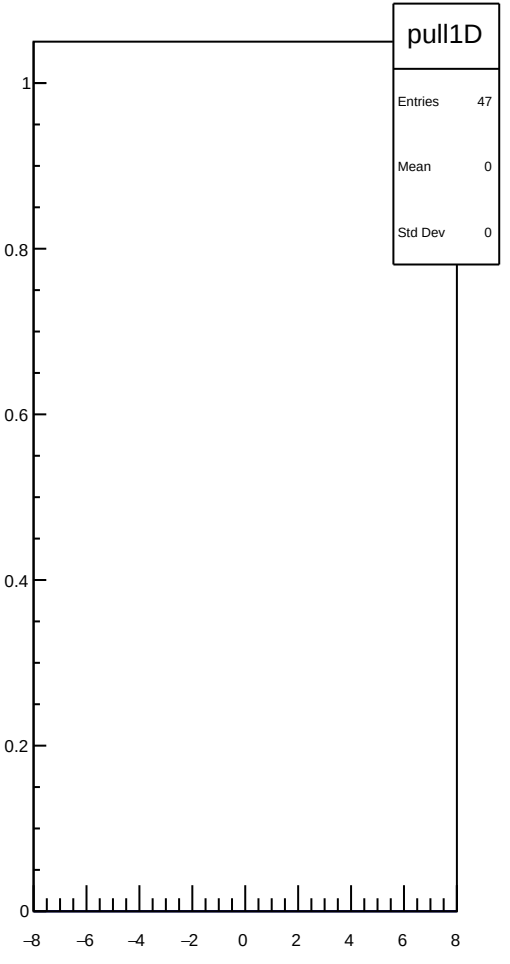

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5004 / 46
p0 121.3 ± 0.1238
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

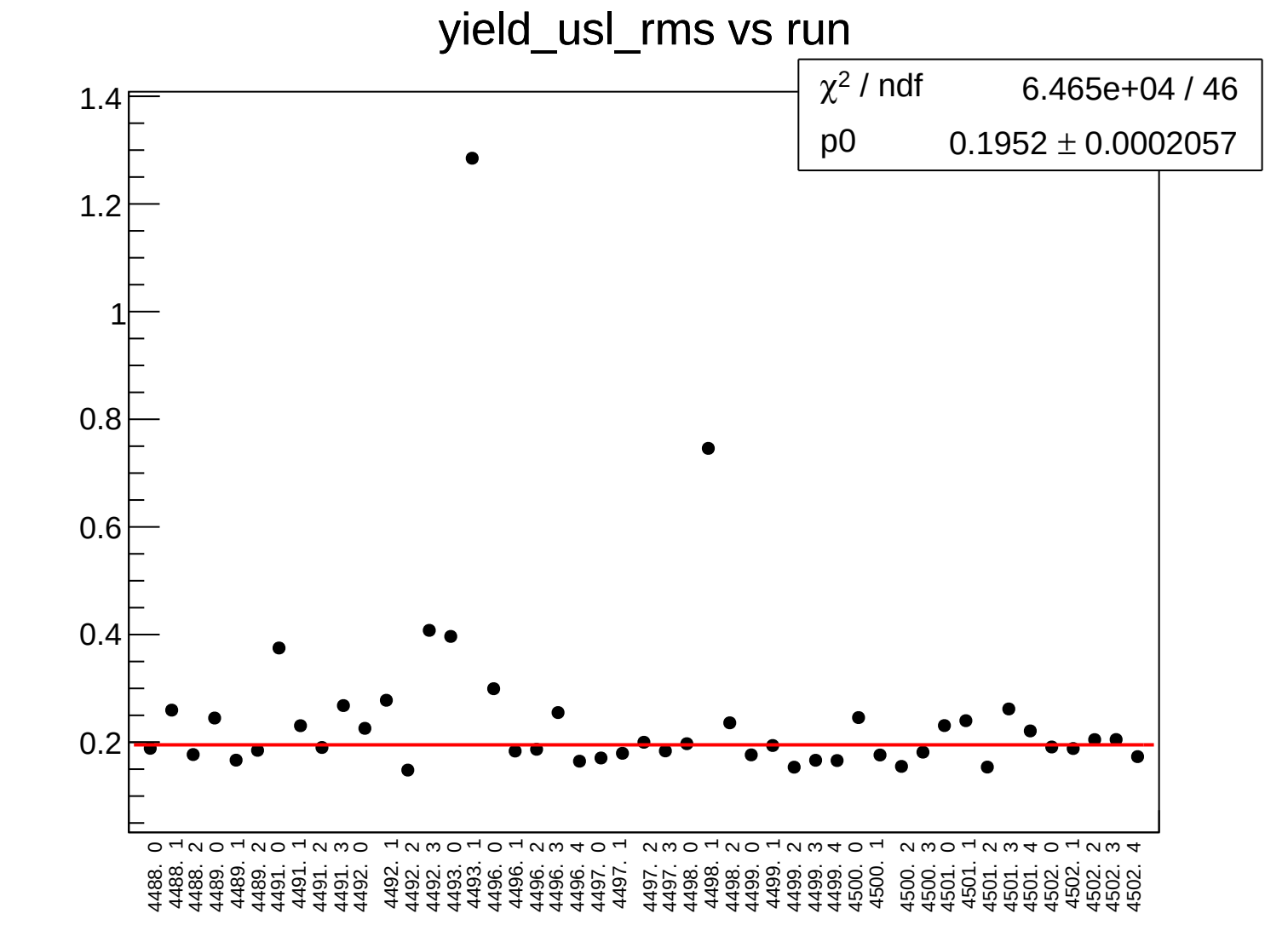

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 49.43 / 46
p0 41.81 ± 28.5
pull
Entries 47
Mean −97.36
Std Dev 115.6

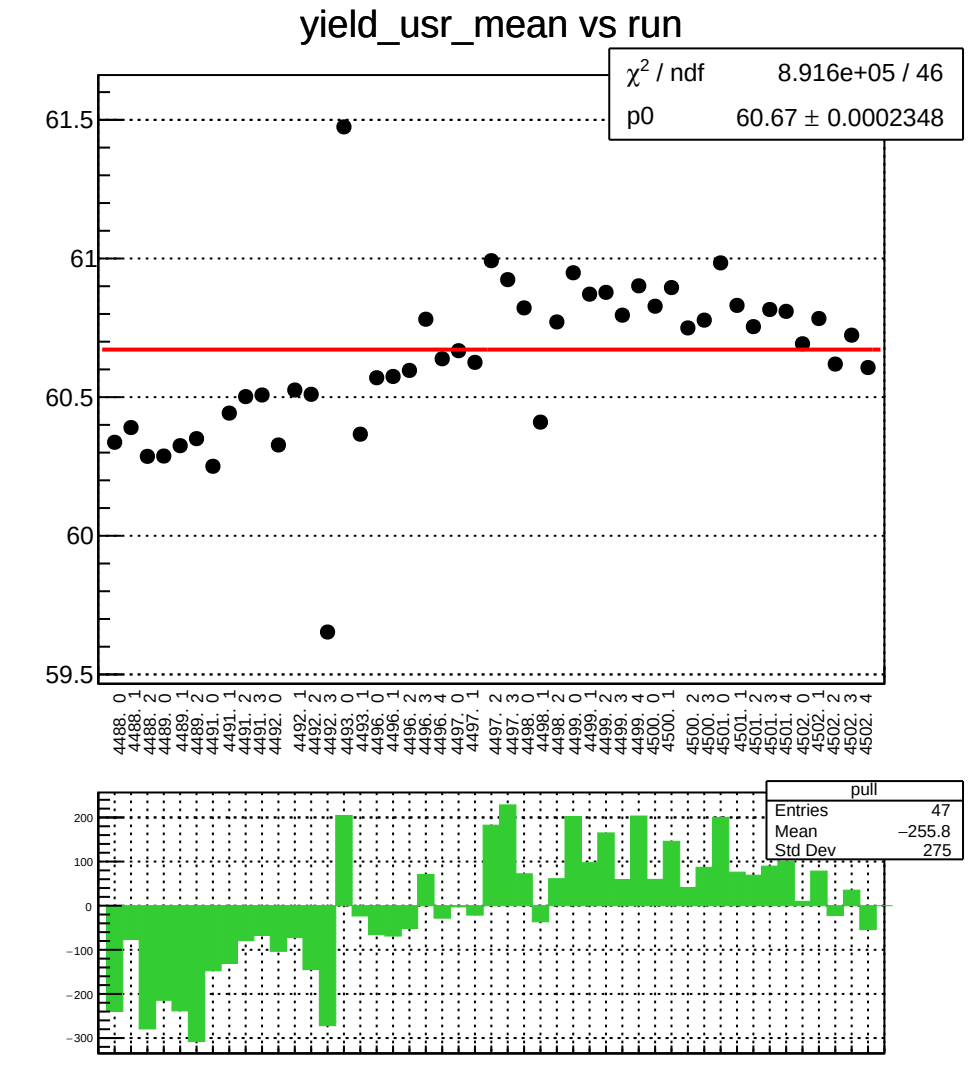

pull1D
Entries 47
Mean −0.01571
Std Dev 1.025

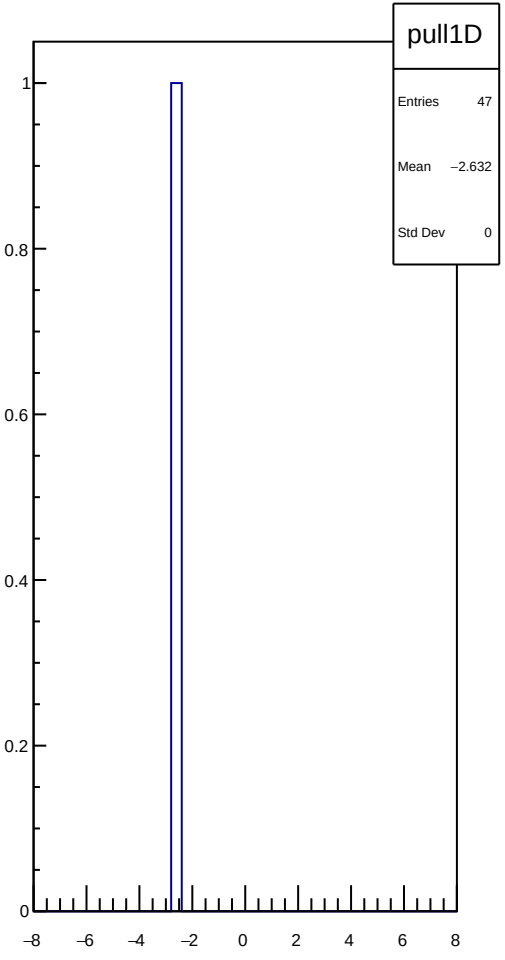

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 922.1 / 46
p0 19.79 ± 0.02015
21
20.5
20
19.5
19
18.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

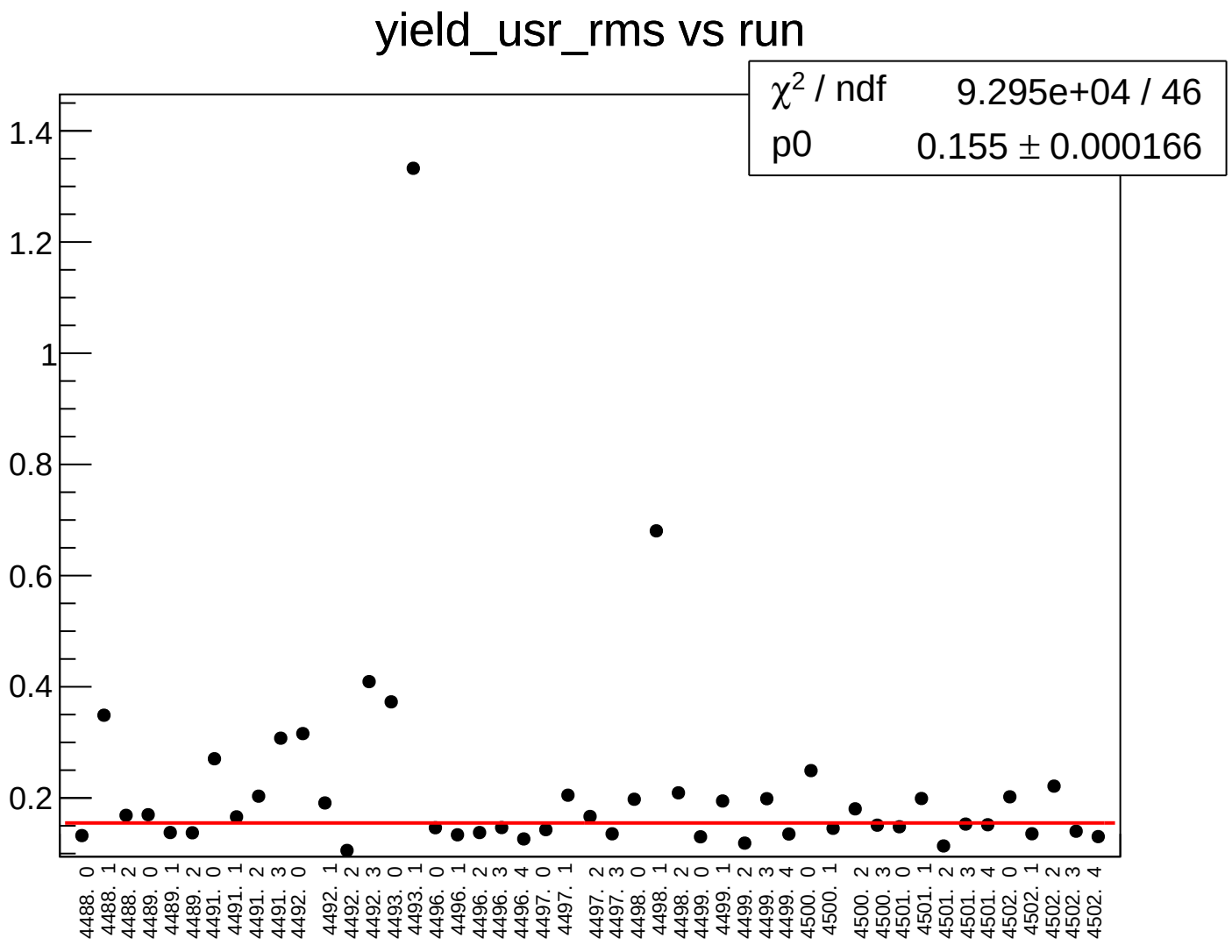

yield_usl_mean vs run
χ² / ndf 7.508e+05 / 46
p0 65.73 ± 0.0002909
66.5
66
65.5
65
64.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 1992
Std Dev 1965
300
200
100
0
−100
−200
−300

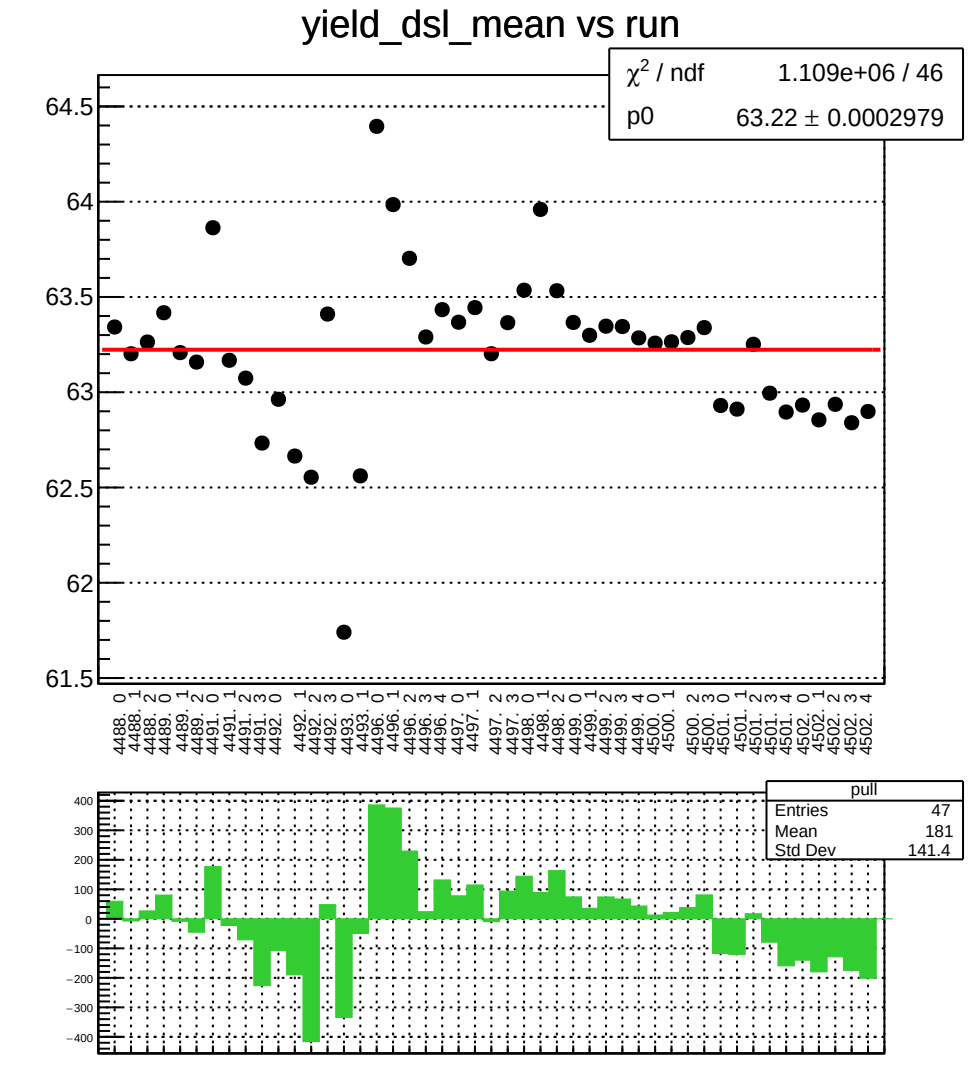

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

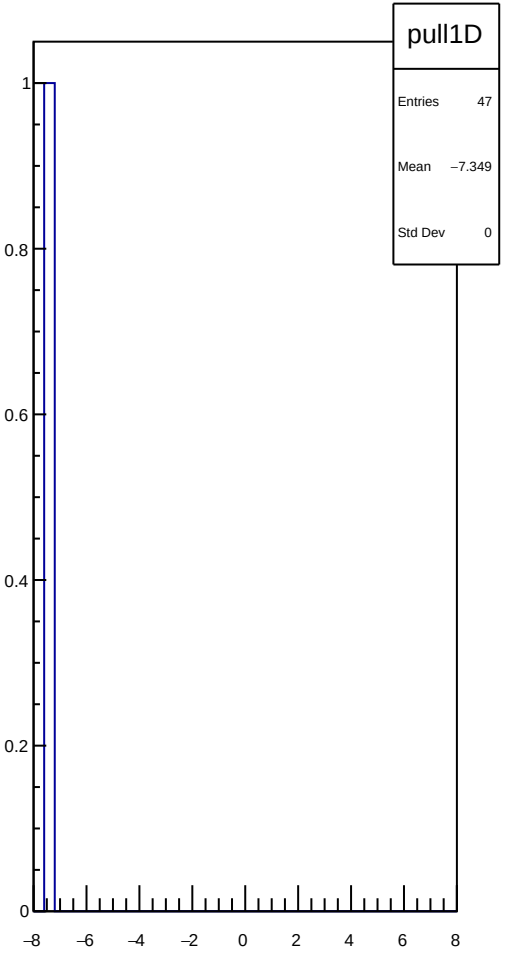

yield_usl_rms vs run
χ² / ndf 6.465e+04 / 46
p0 0.1952 ± 0.0002057
1.4
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

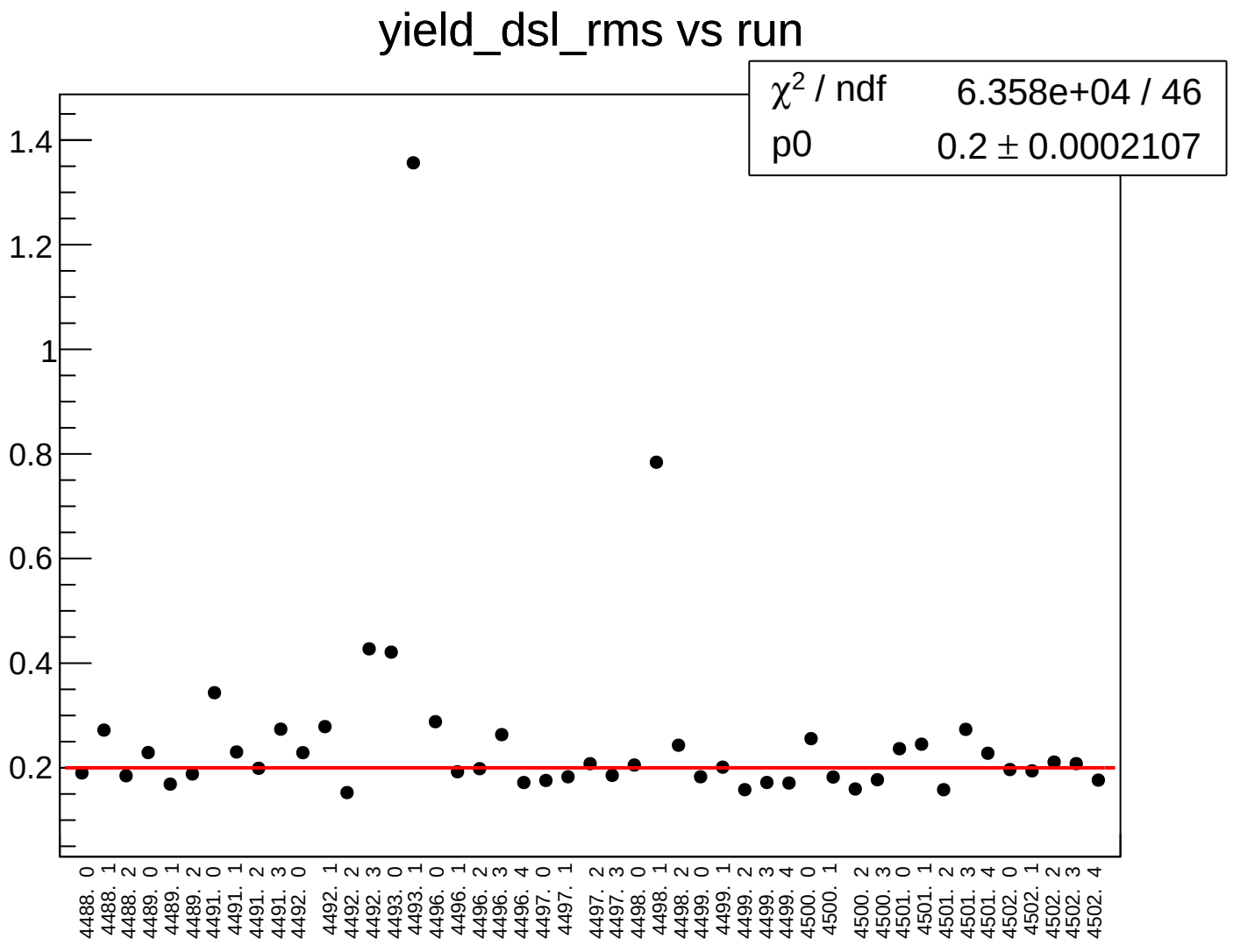

yield_usr_mean vs run
χ² / ndf 8.916e+05 / 46
p0 60.67 ± 0.0002348
61.5
61
60.5
60
59.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −255.8
Std Dev 275
200
100
0
−100
−200
−300

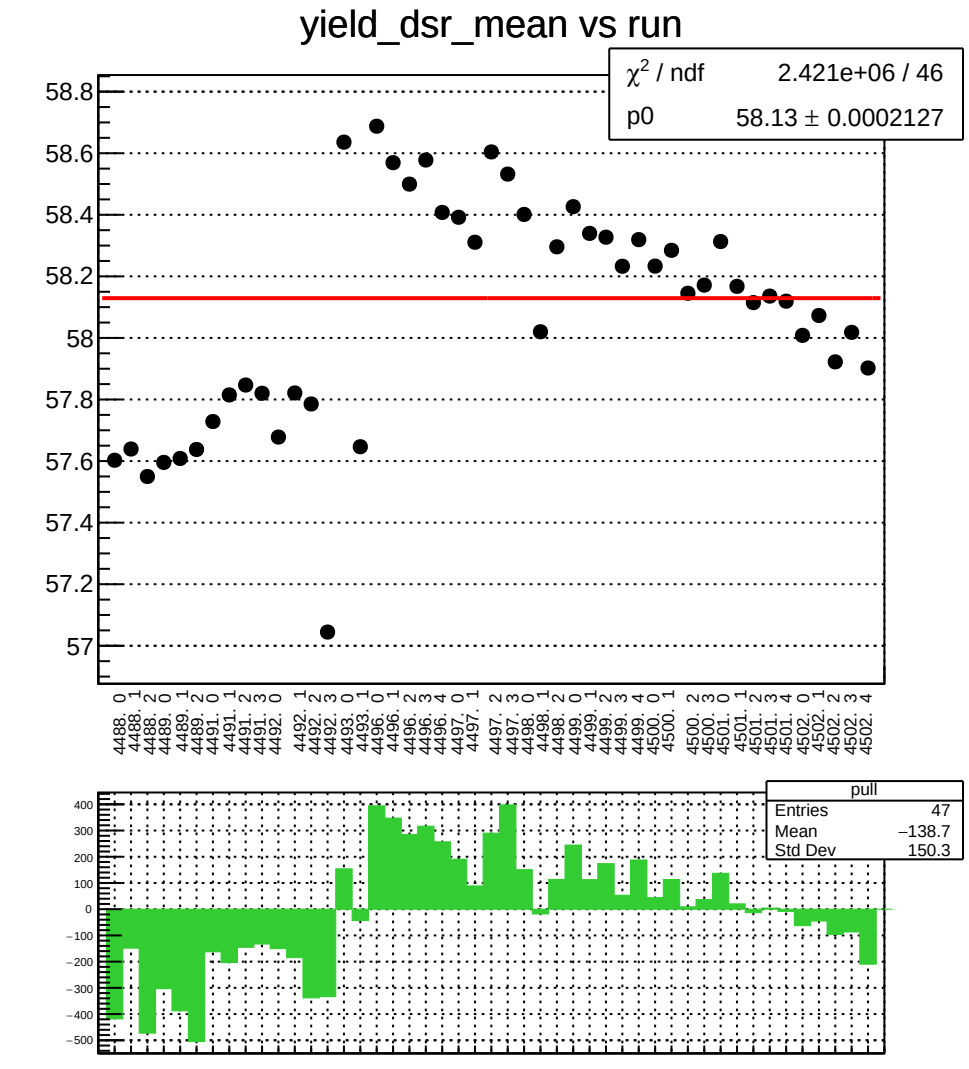

pull1D
Entries 47
Mean −2.632
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

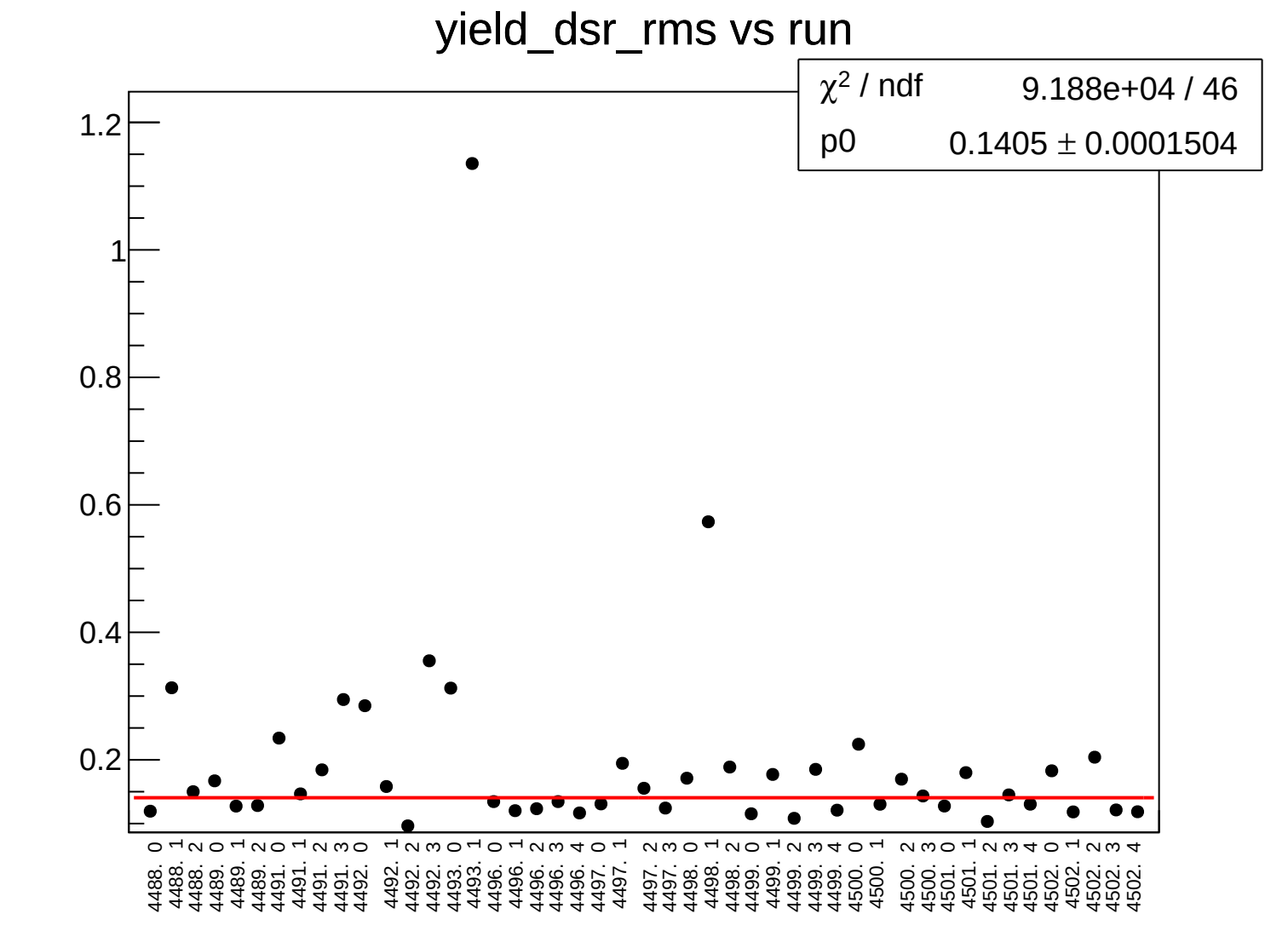

yield_usr_rms vs run
χ^2 / ndf 9.295e+04 / 46
p0 0.155 ± 0.000166
1.4
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

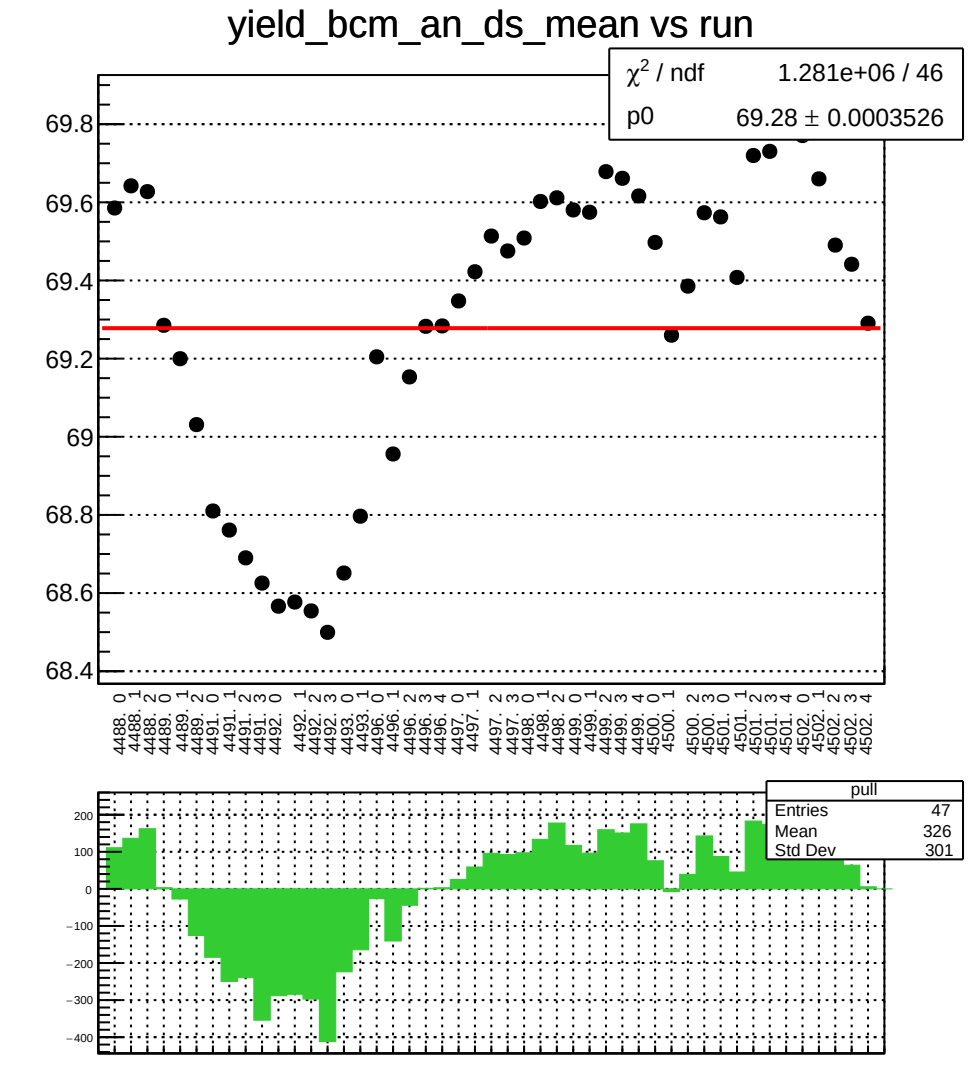

yield_dsl_mean vs run
χ² / ndf 1.109e+06 / 46
p0 63.22 ± 0.0002979
64.5
64
63.5
63
62.5
62
61.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 181
Std Dev 141.4
400
300
200
100
0
−100
−200
−300
−400

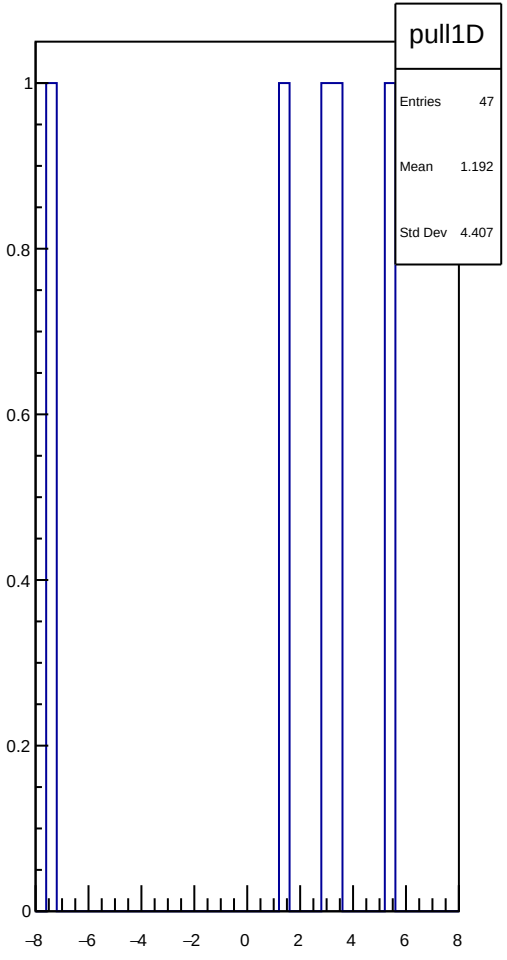

pull1D
Entries 47
Mean −7.349
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

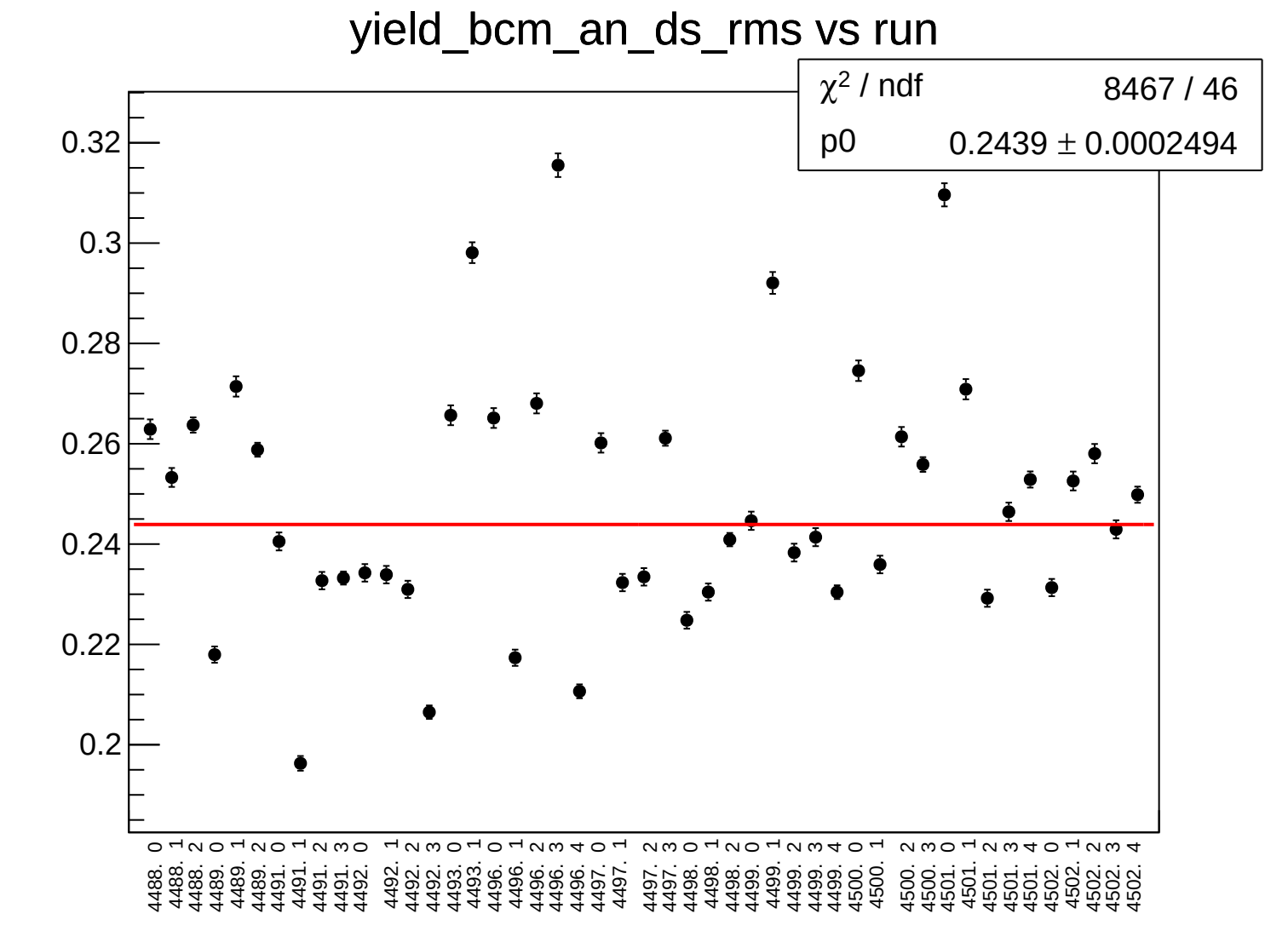

yield_dsl_rms vs run
χ^2 / ndf 6.358e+04 / 46
p0 0.2 ± 0.0002107
1.4
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

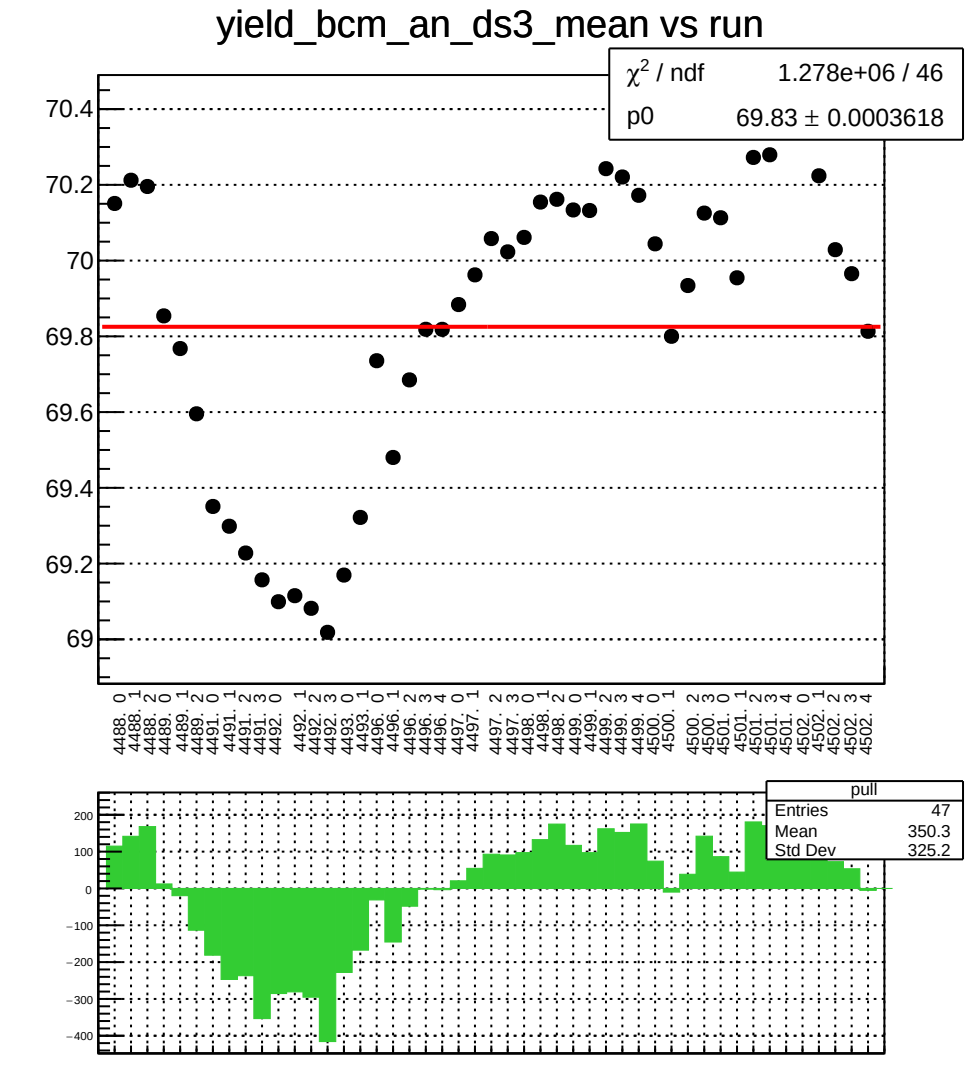

yield_dsr_mean vs run
χ² / ndf 2.421e+06 / 46
p0 58.13 ± 0.0002127
58.8
58.6
58.4
58.2
58
57.8
57.6
57.4
57.2
57
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −138.7
Std Dev 150.3
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 47
Mean 4.385
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

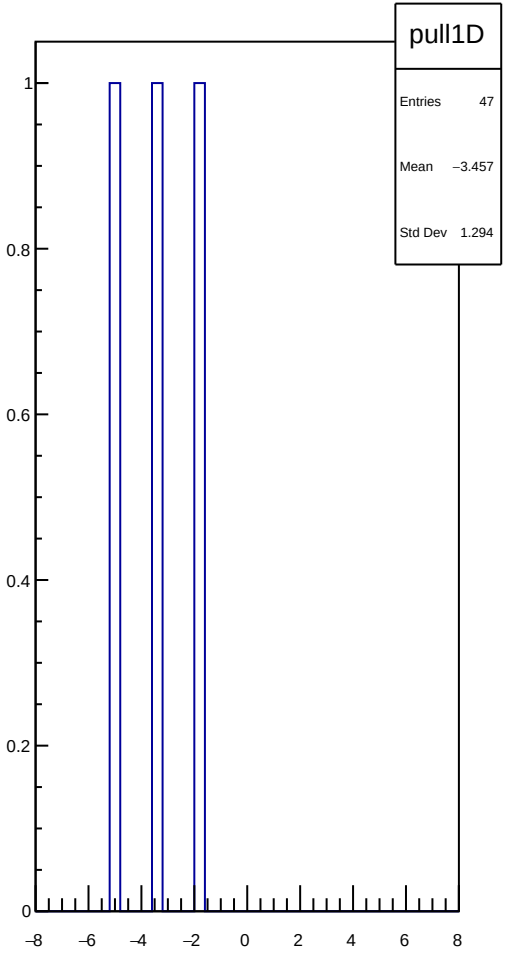

yield_dsr_rms vs run
χ^2 / ndf 9.188e+04 / 46
p0 0.1405 ± 0.0001504
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

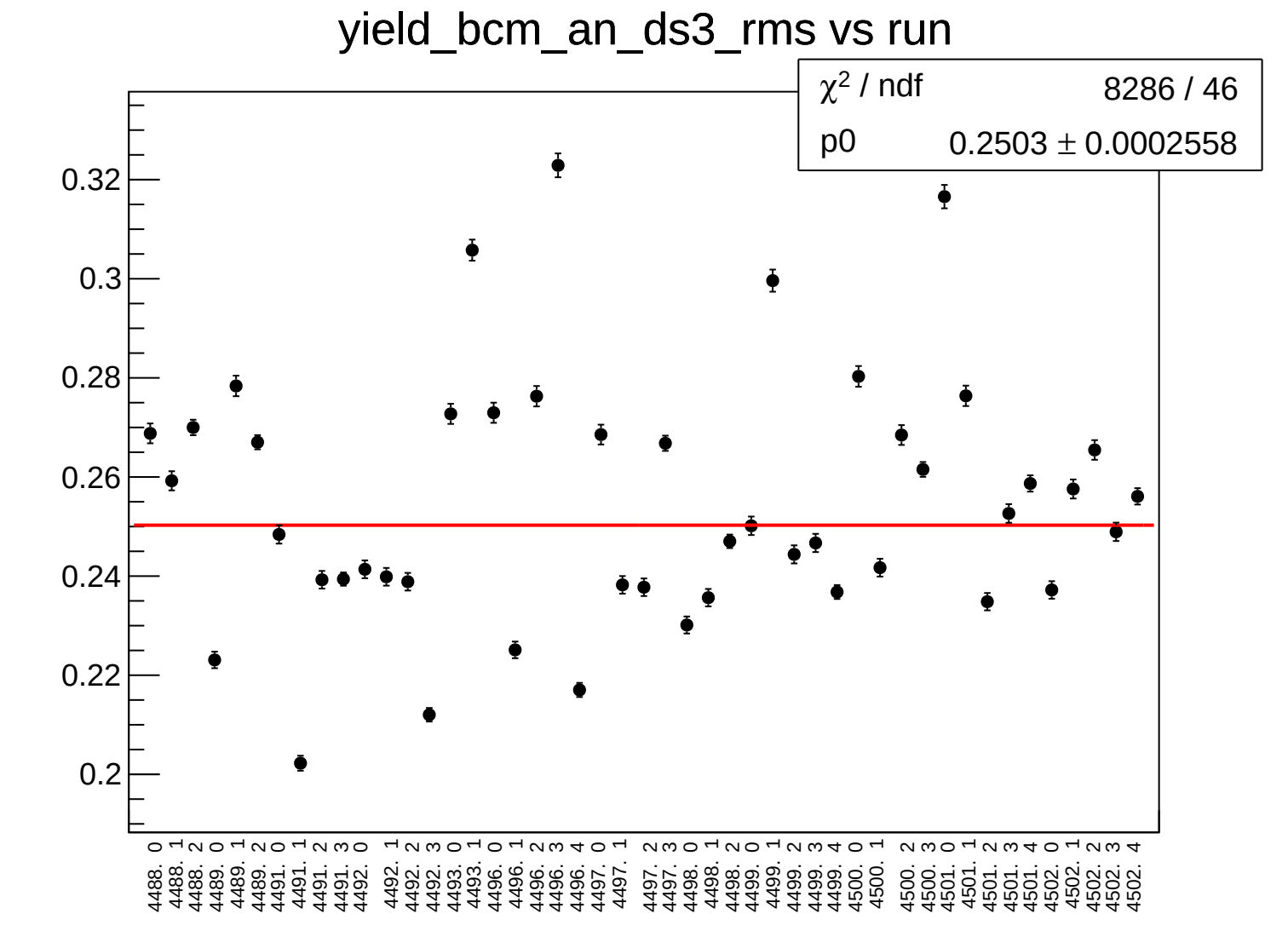

yield_bcm_an_ds_mean vs run
χ² / ndf 1.281e+06 / 46
p0 69.28 ± 0.0003526
pull
Entries 47
Mean 326
Std Dev 301

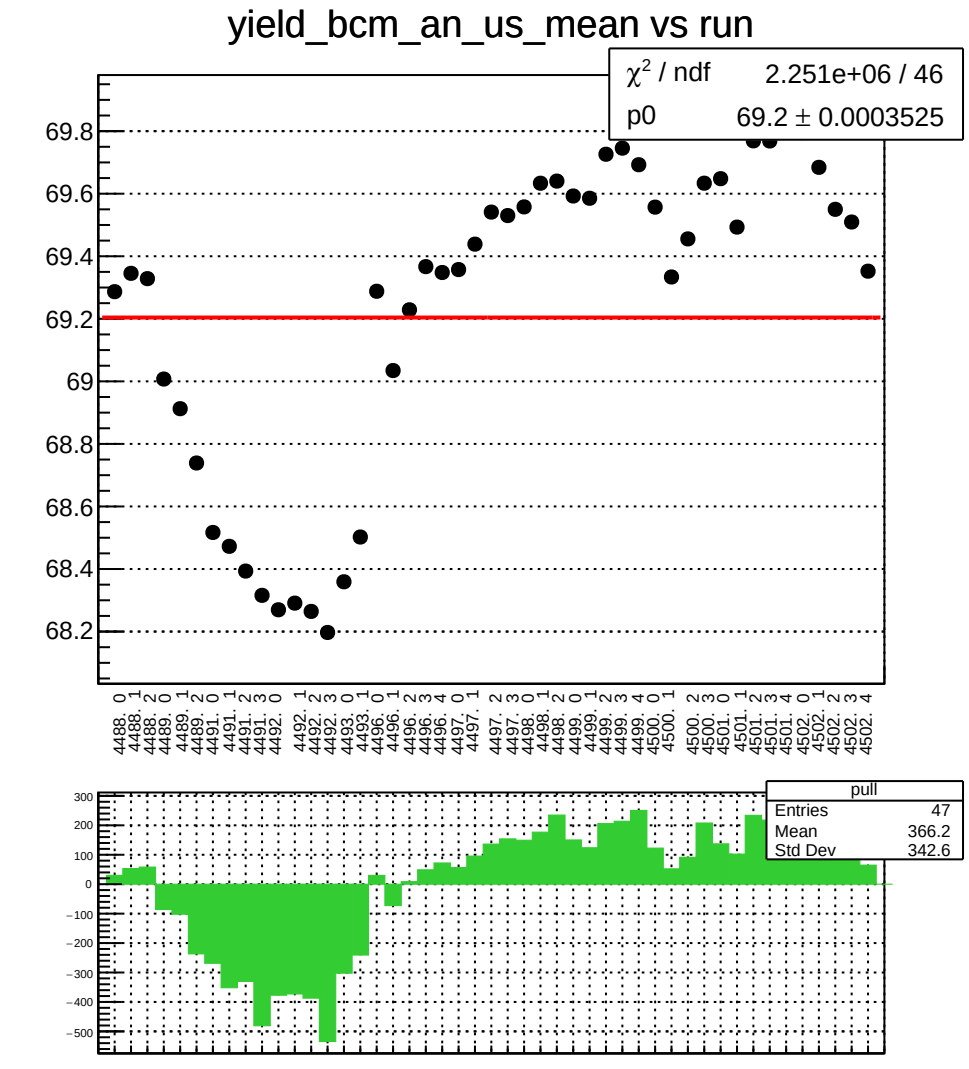

pull1D
Entries 47
Mean 1.192
Std Dev 4.407

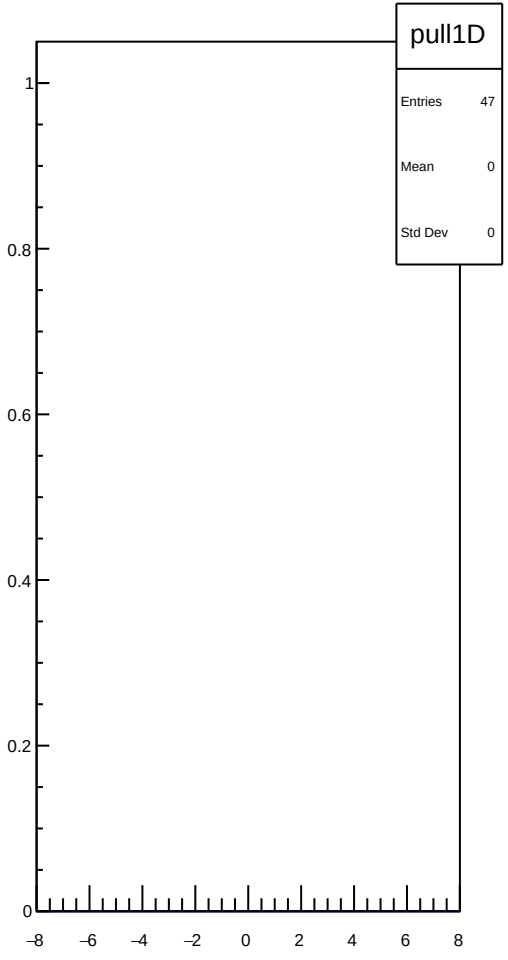

yield_bcm_an_ds_rms vs run
χ² / ndf 8467 / 46
p0 0.2439 ± 0.0002494
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

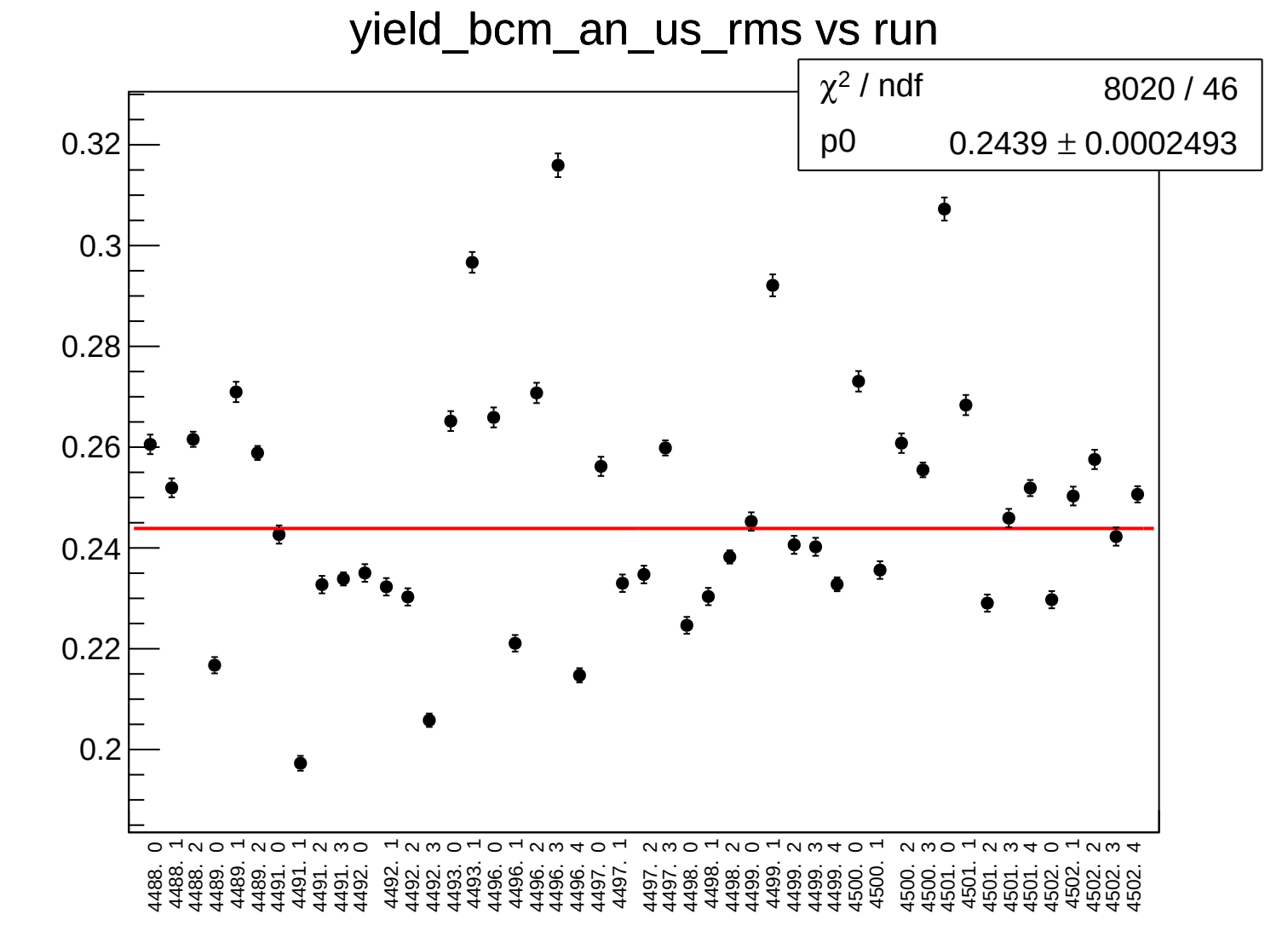

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.278e+06 / 46
p0 69.83 ± 0.0003618
70.4
70.2
70
69.8
69.6
69.4
69.2
69
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 350.3
Std Dev 325.2
200
100
0
−100
−200
−300
−400

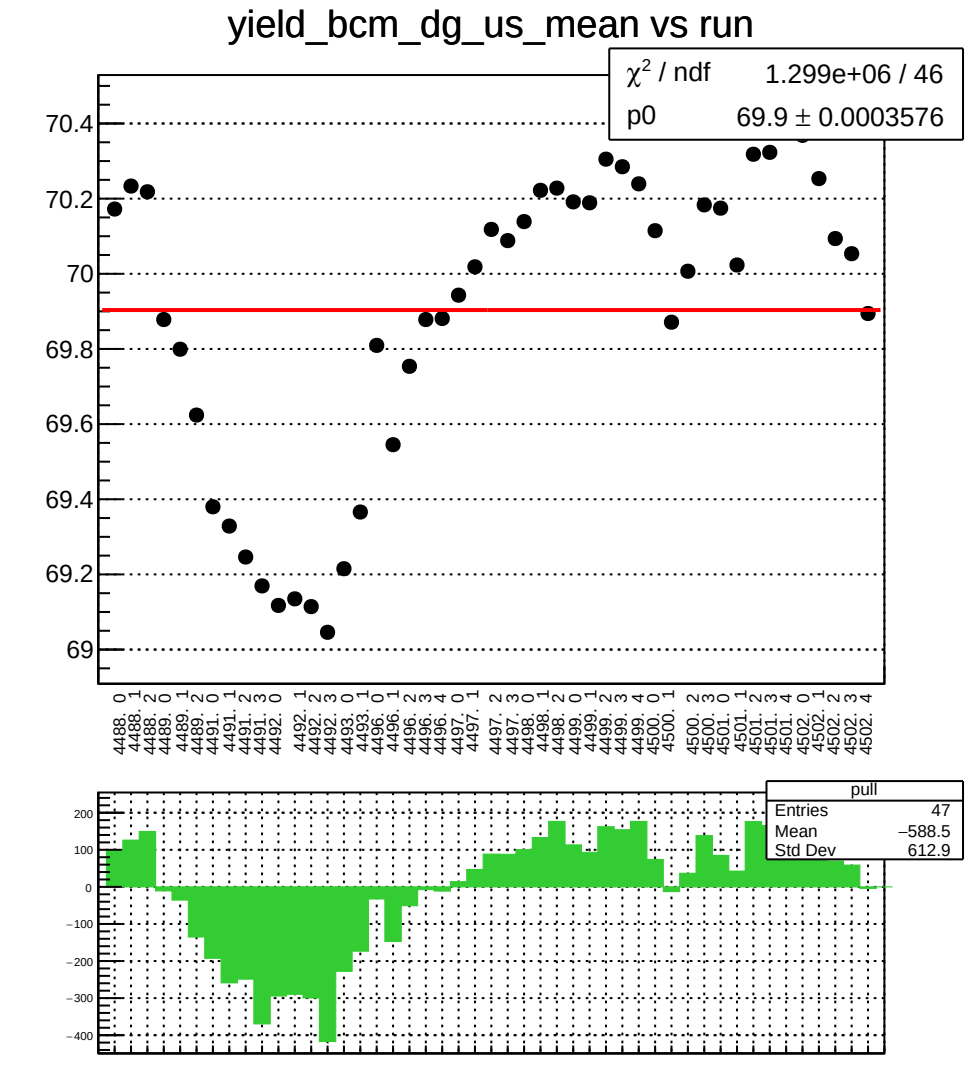

pull1D
Entries 47
Mean −3.457
Std Dev 1.294
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 8286 / 46
p0 0.2503 ± 0.0002558
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


yield_bcm_an_us_mean vs run
χ² / ndf 2.251e+06 / 46
p0 69.2 ± 0.0003525
pull
Entries 47
Mean 366.2
Std Dev 342.6


pull1D
Entries 47
Mean 0
Std Dev 0


yield_bcm_an_us_rms vs run
χ² / ndf 8020 / 46
p0 0.2439 ± 0.0002493
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


yield_bcm_dg_us_mean vs run
χ² / ndf 1.299e+06 / 46
p0 69.9 ± 0.0003576
70.4
70.2
70
69.8
69.6
69.4
69.2
69
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
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4492. 2
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4493. 0
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4496. 0
4496. 1
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4496. 4
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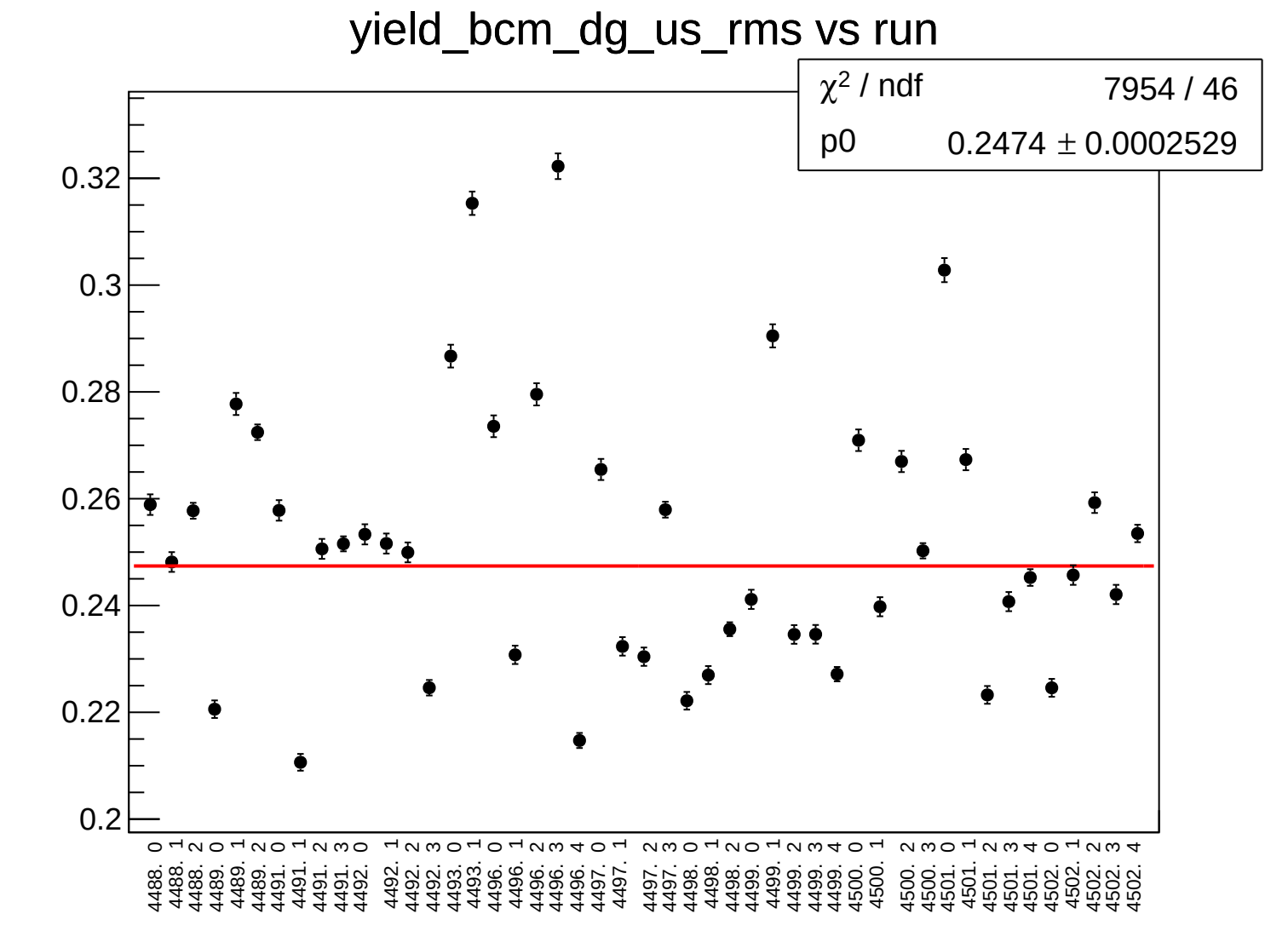
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −588.5
Std Dev 612.9
200
100
0
−100
−200
−300
−400
pull1D
Entries 47
Mean −5.721
Std Dev 1.723
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 7954 / 46
p0 0.2474 ± 0.0002529
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
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4499. 1
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4499. 3
4499. 4
4500. 0
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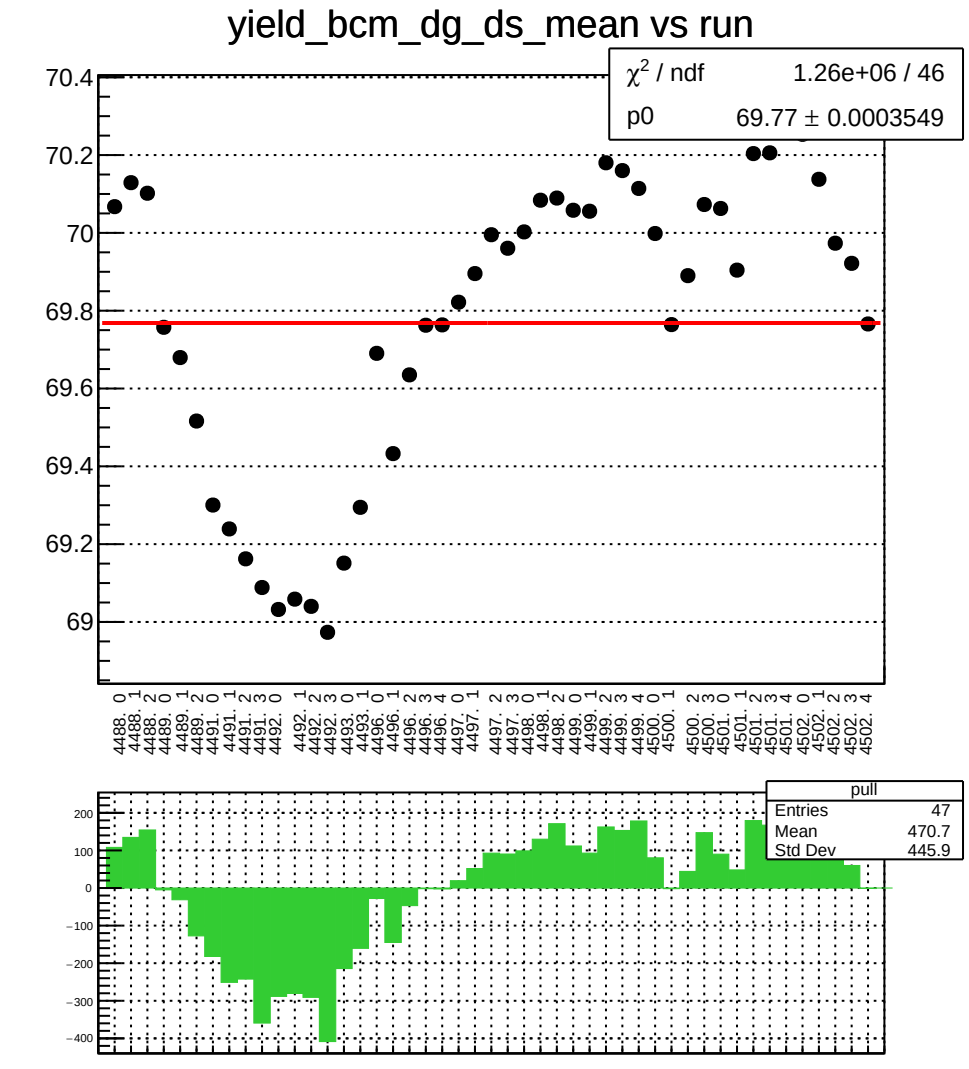
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4


yield_bcm_dg_ds_mean vs run
χ² / ndf 1.26e+06 / 46
p0 69.77 ± 0.0003549
70.4
70.2
70
69.8
69.6
69.4
69.2
69
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
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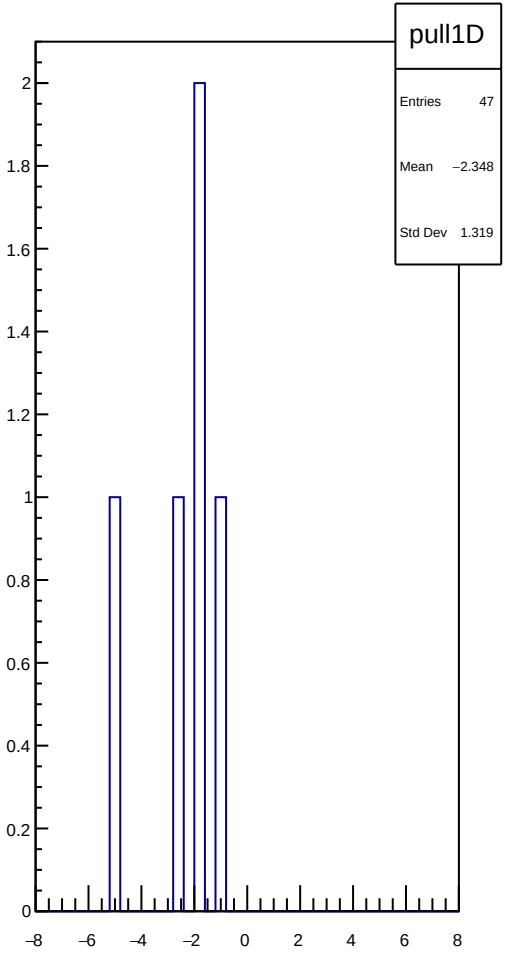
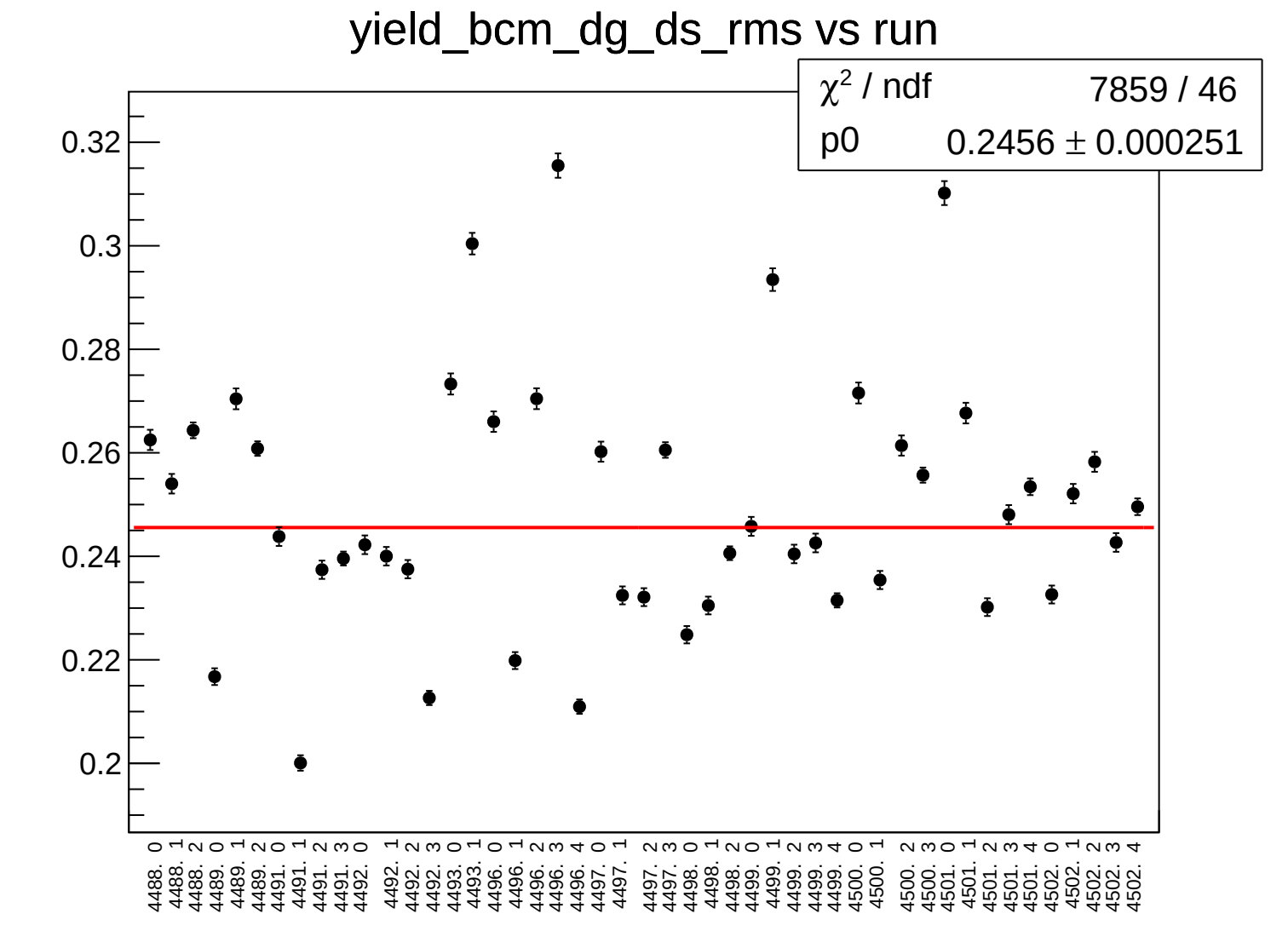
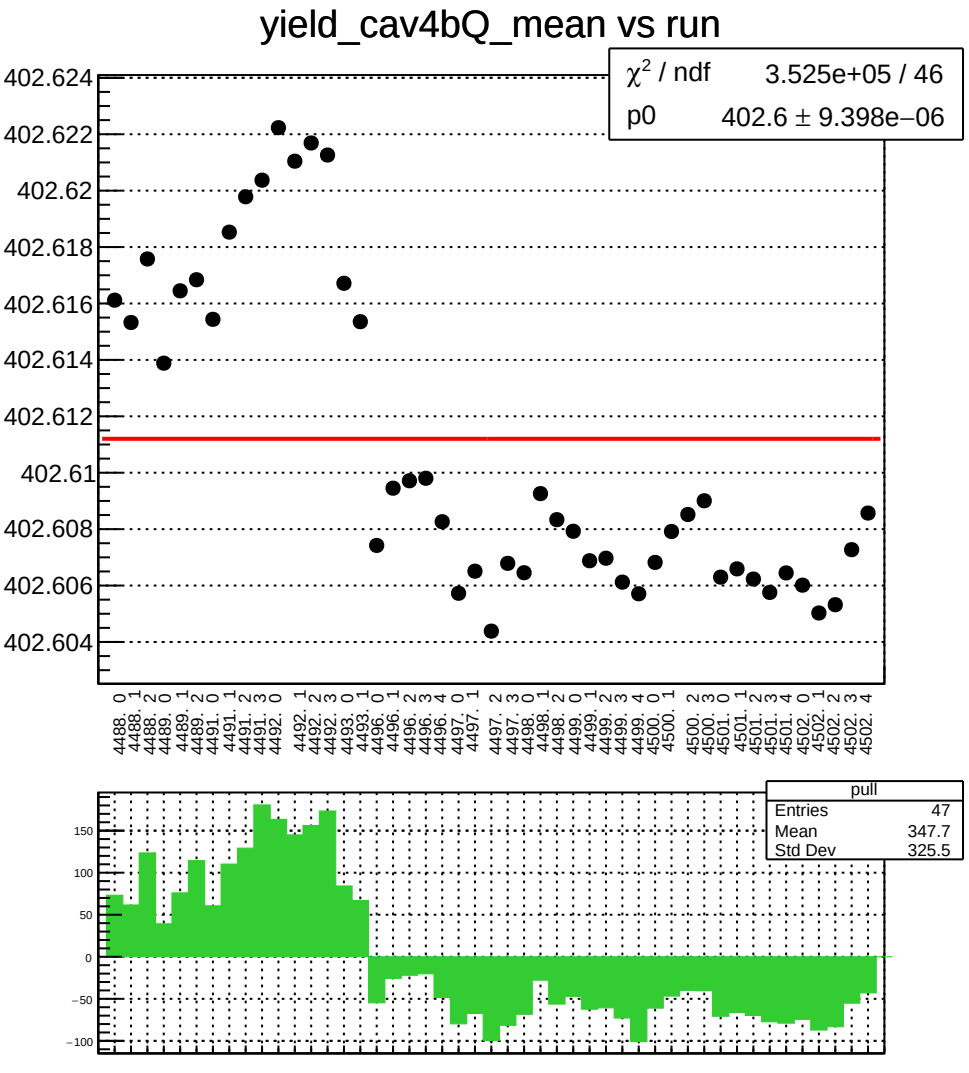
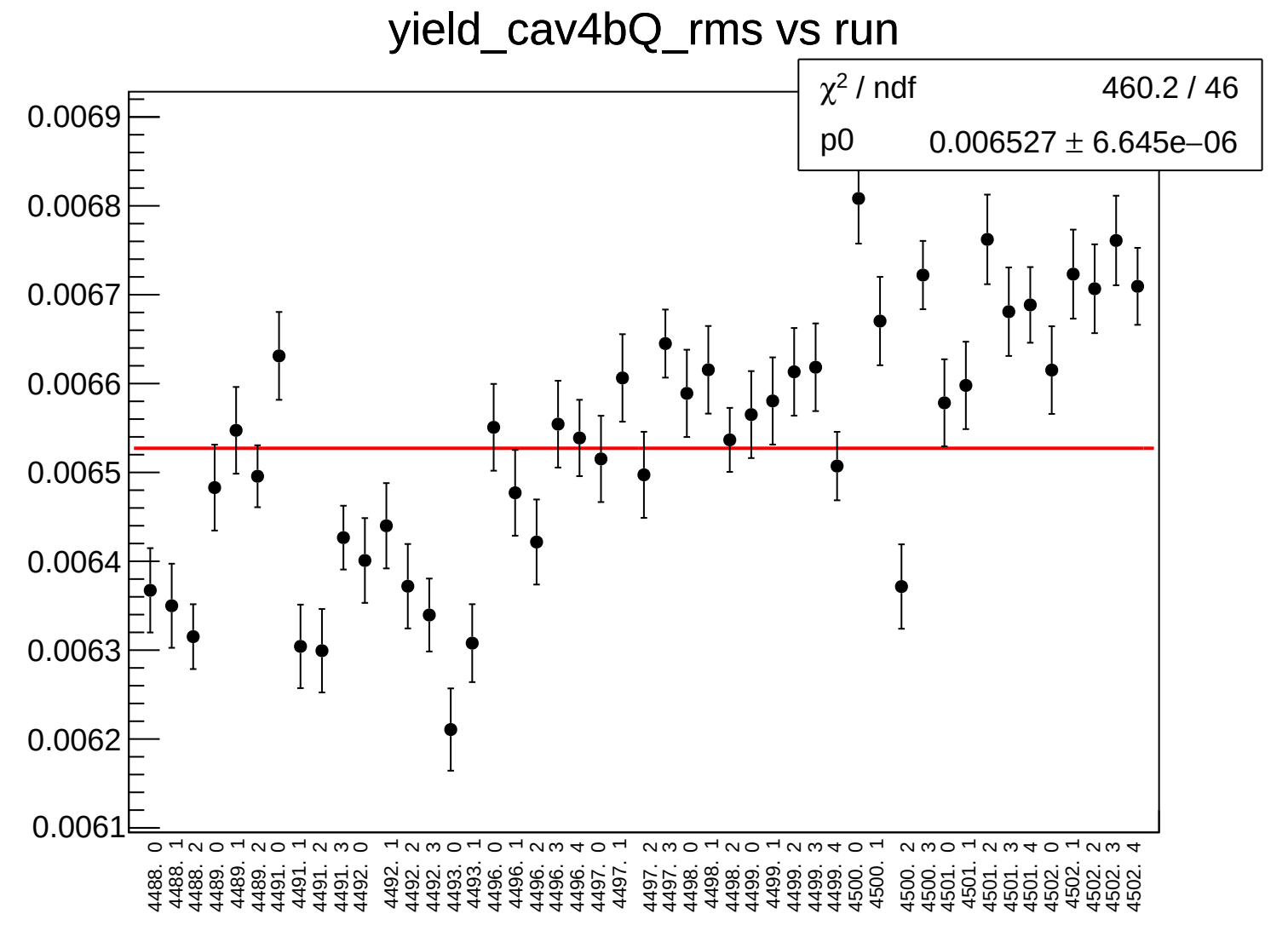
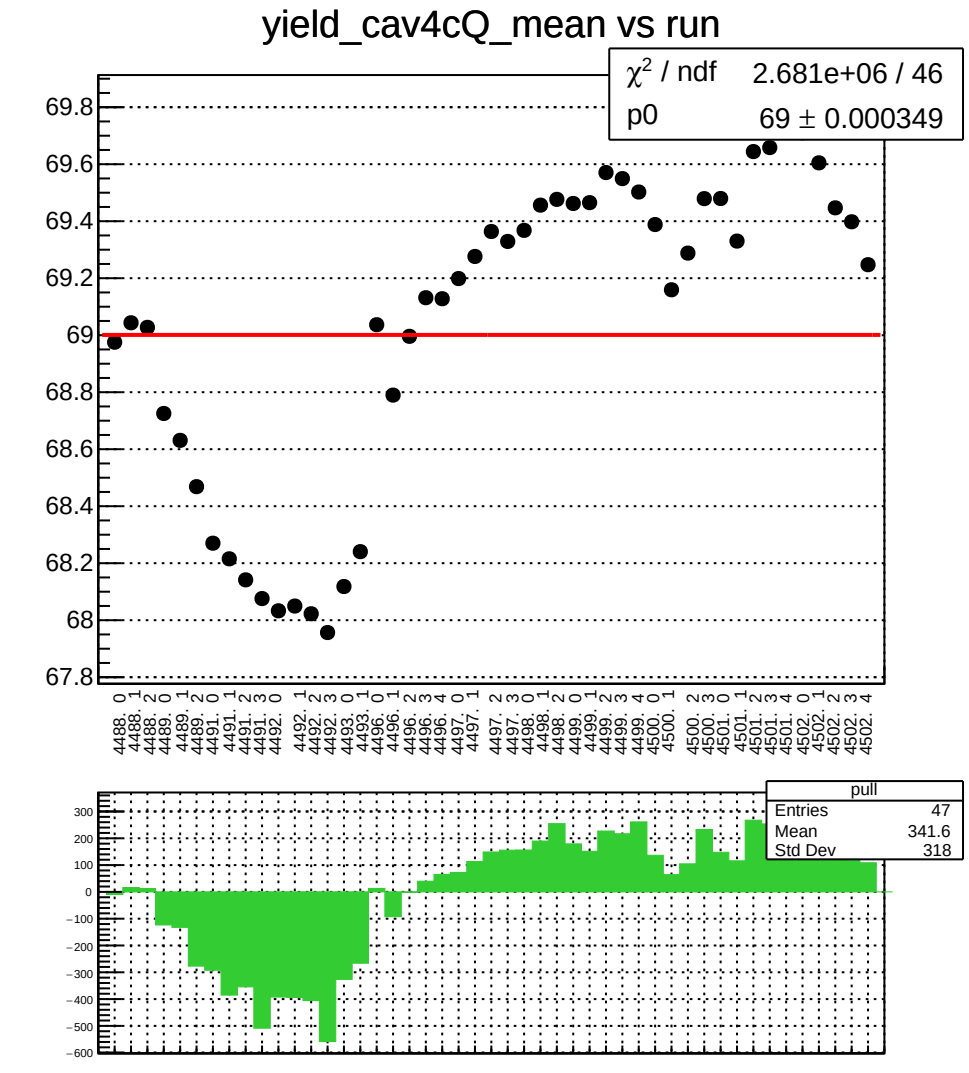
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 470.7
Std Dev 445.9
200
100
0
−100
−200
−300
−400

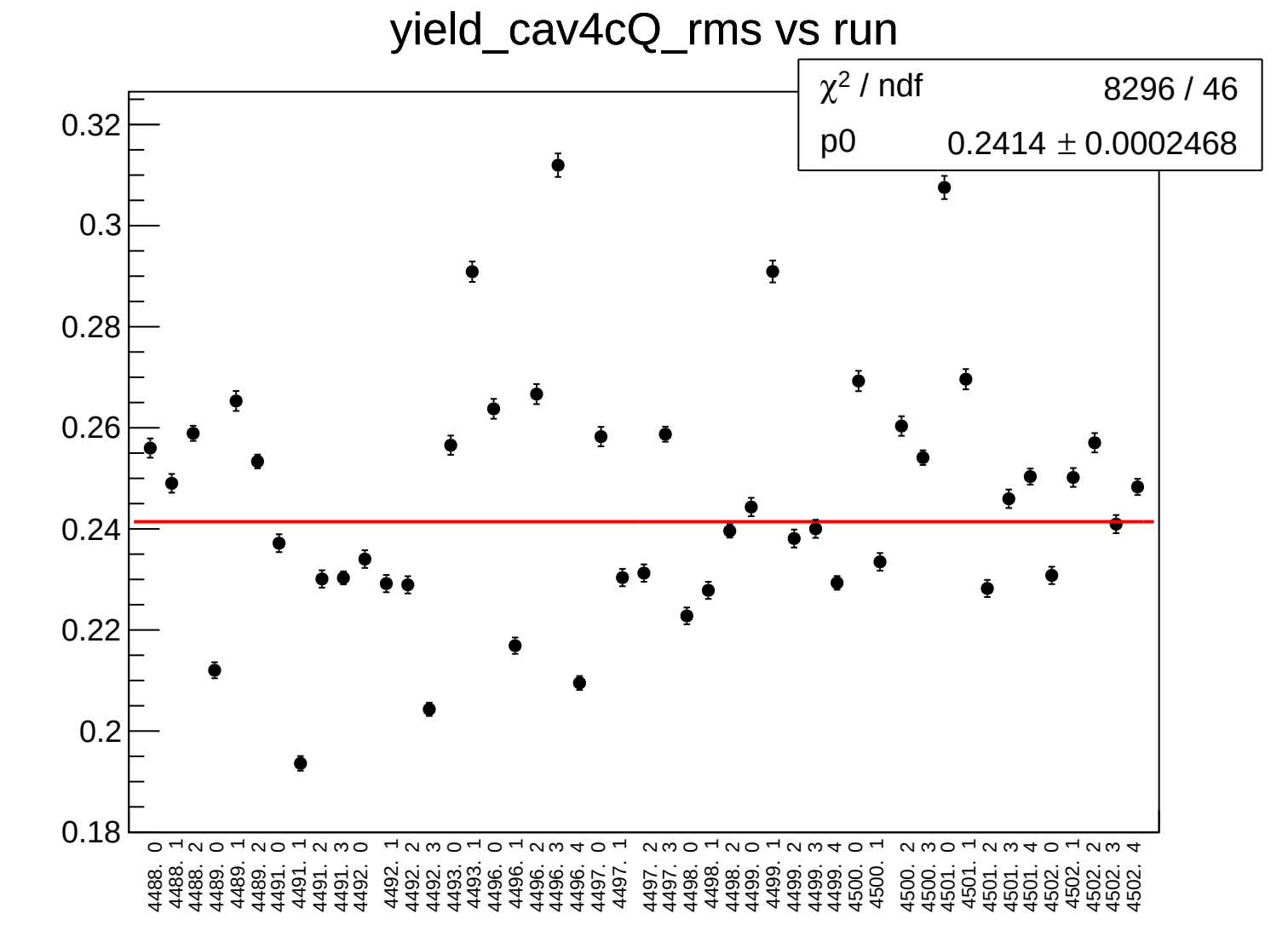

pull1D
Entries 47
Mean −2.348
Std Dev 1.319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

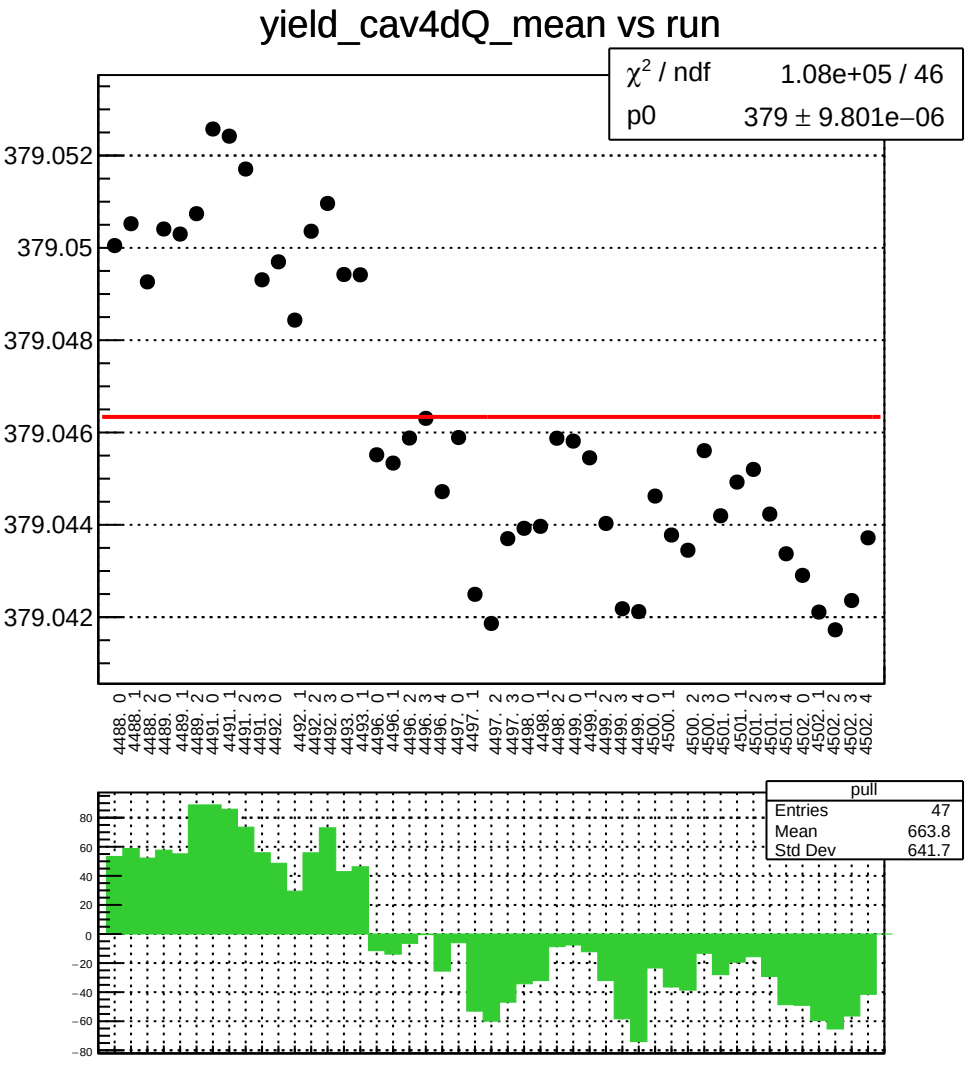

yield_bcm_dg_ds_rms vs run
χ² / ndf 7859 / 46
p0 0.2456 ± 0.000251
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

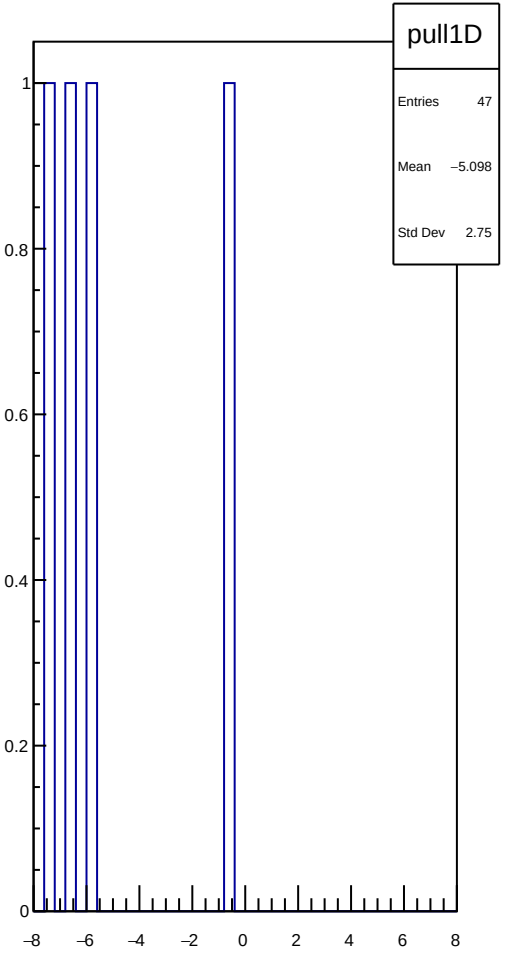

yield_cav4bQ_mean vs run
χ² / ndf 3.525e+05 / 46
p0 402.6 ± 9.398e−06
402.624
402.622
402.62
402.618
402.616
402.614
402.612
402.61
402.608
402.606
402.604
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 347.7
Std Dev 325.5
150
100
50
0
−50
−100
pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

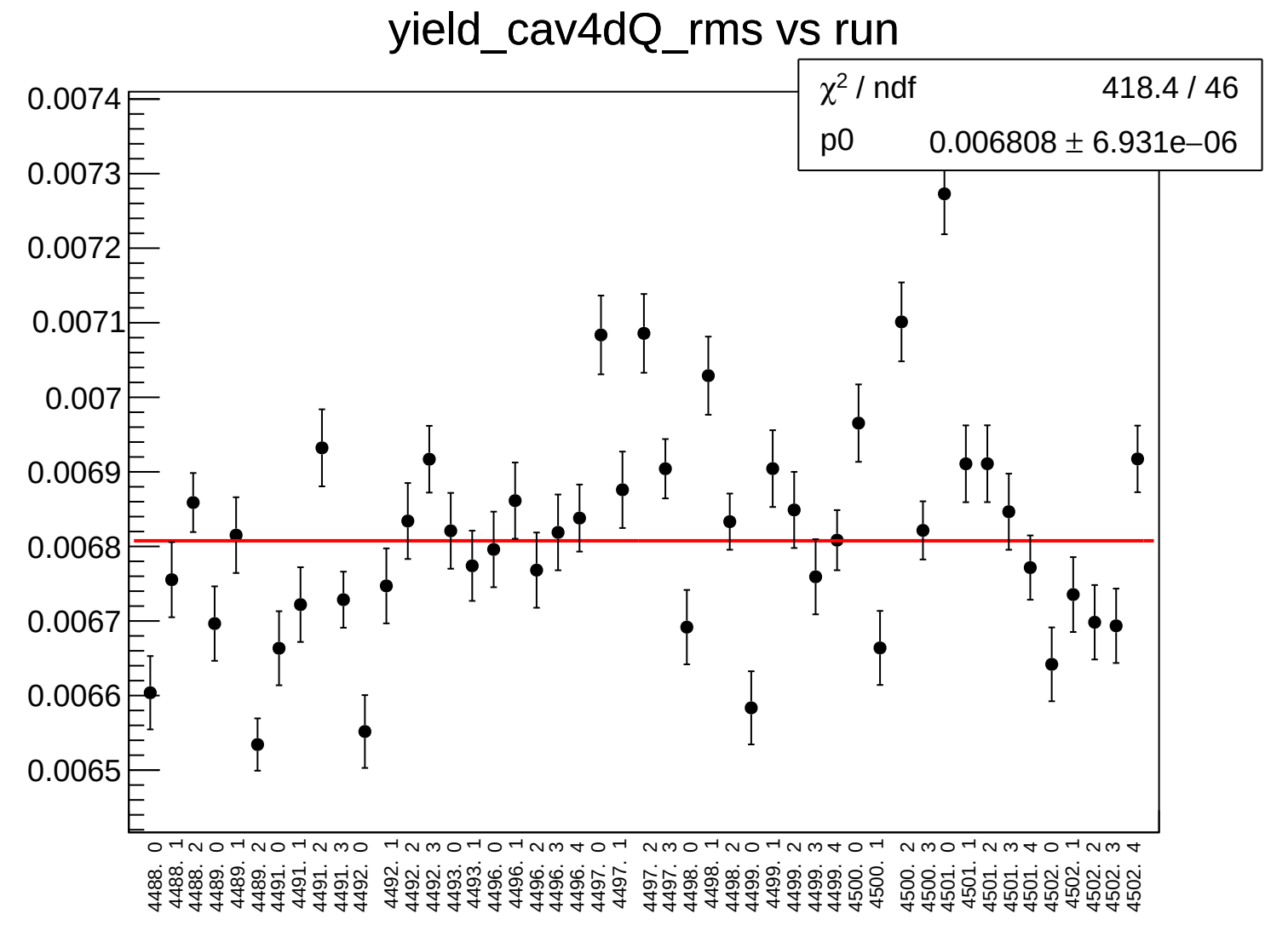

yield_cav4bQ_rms vs run
χ² / ndf 460.2 / 46
p0 0.006527 ± 6.645e−06
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

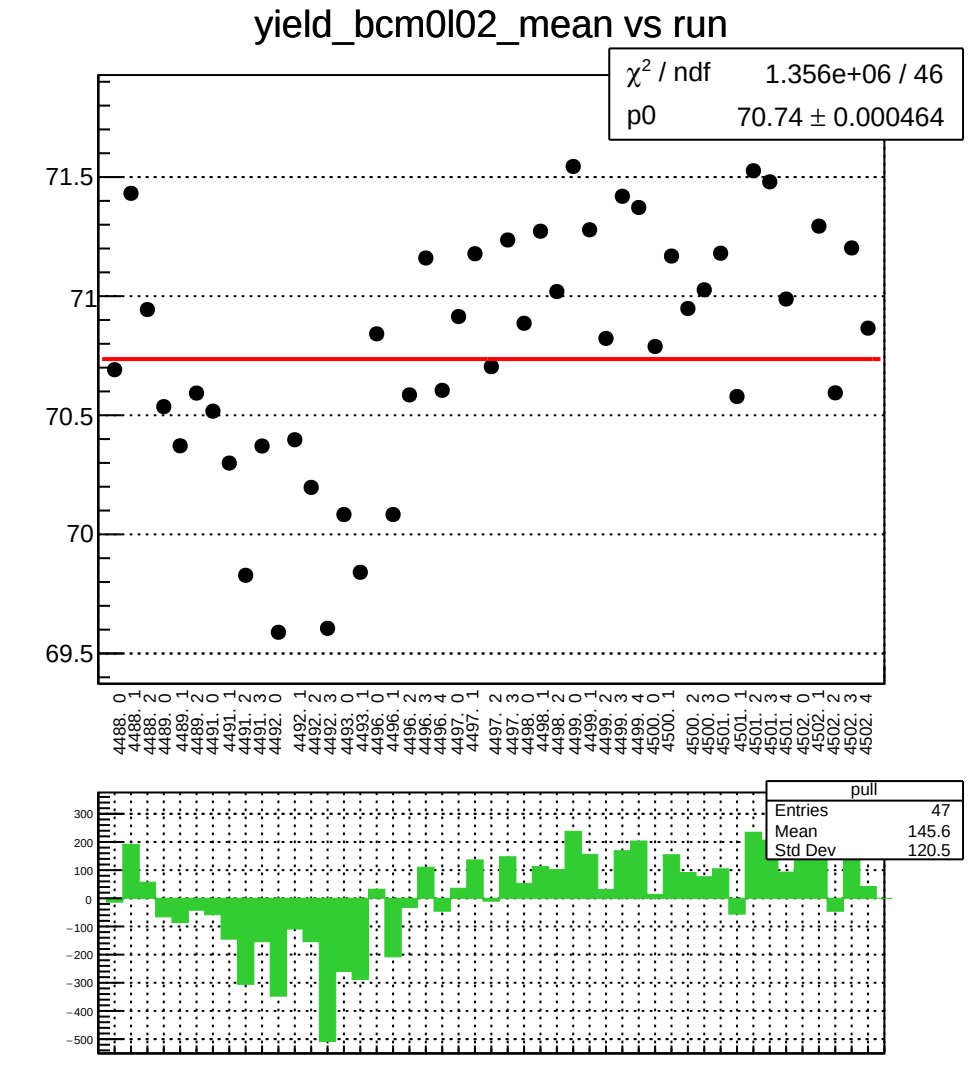

yield_cav4cQ_mean vs run
χ² / ndf 2.681e+06 / 46
p0 69 ± 0.000349
69.8
69.6
69.4
69.2
69
68.8
68.6
68.4
68.2
68
67.8
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 341.6
Std Dev 318
300
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 47
Mean −1.765
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

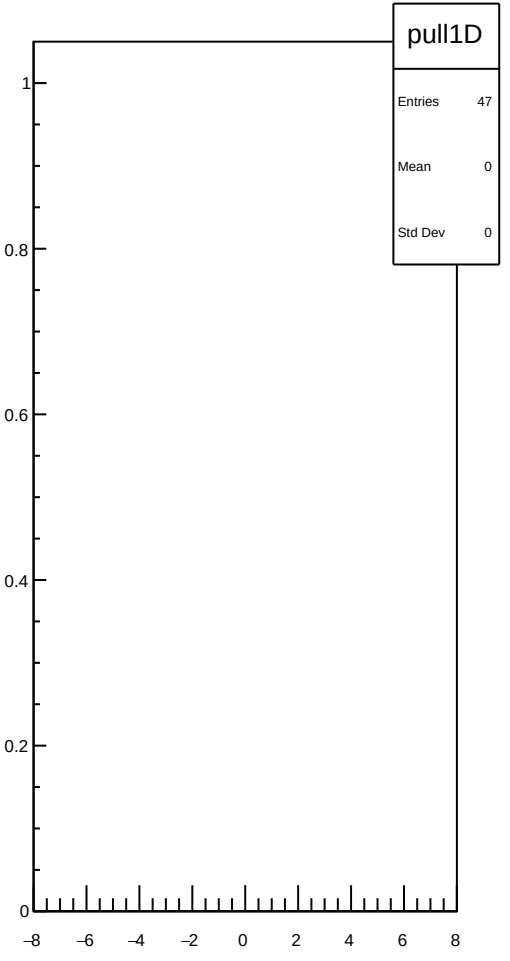

yield_cav4cQ_rms vs run
χ² / ndf 8296 / 46
p0 0.2414 ± 0.0002468
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

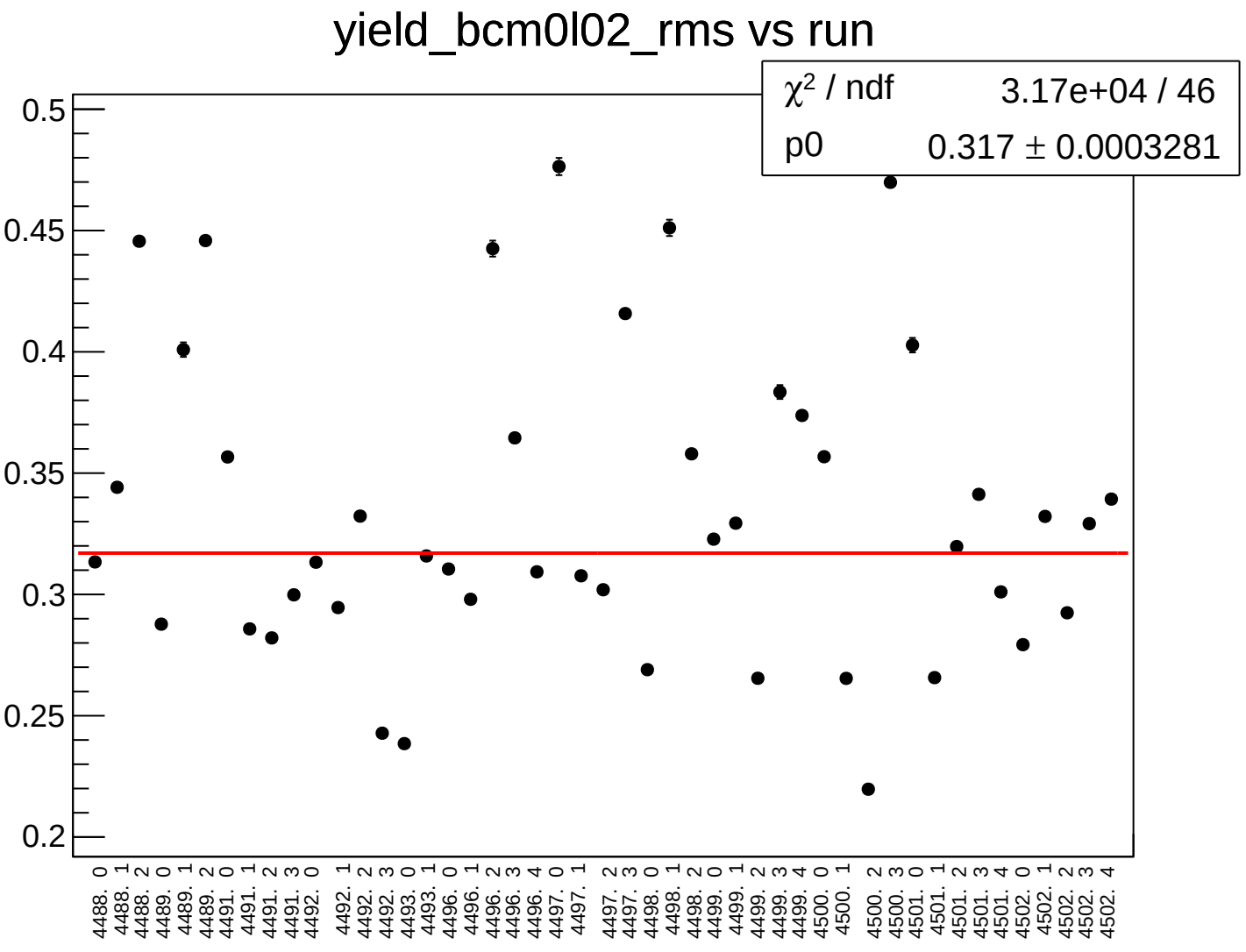

yield_cav4dQ_mean vs run
χ² / ndf 1.08e+05 / 46
p0 379 ± 9.801e−06
379.052
379.05
379.048
379.046
379.044
379.042
pull
Entries 47
Mean 663.8
Std Dev 641.7
80
60
40
20
0
−20
−40
−60
−80

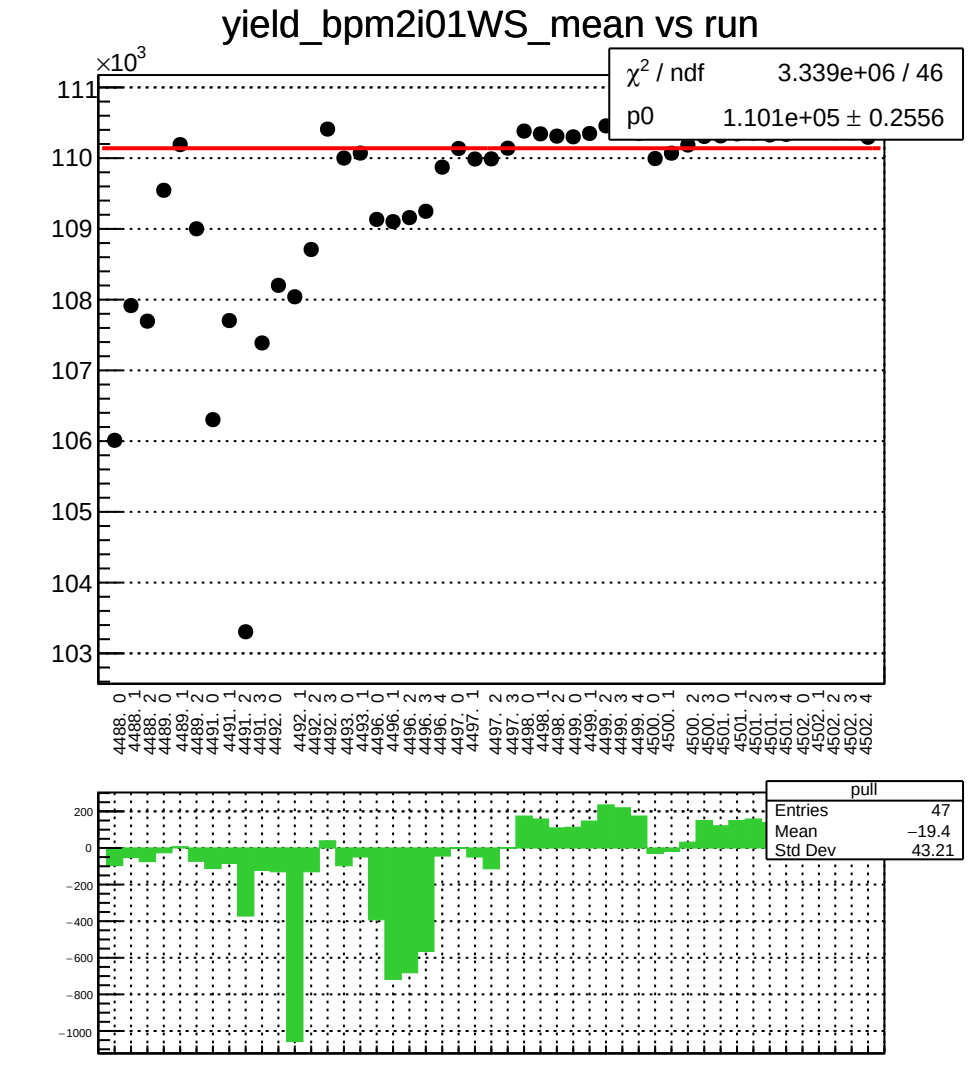

pull1D
Entries 47
Mean −5.098
Std Dev 2.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

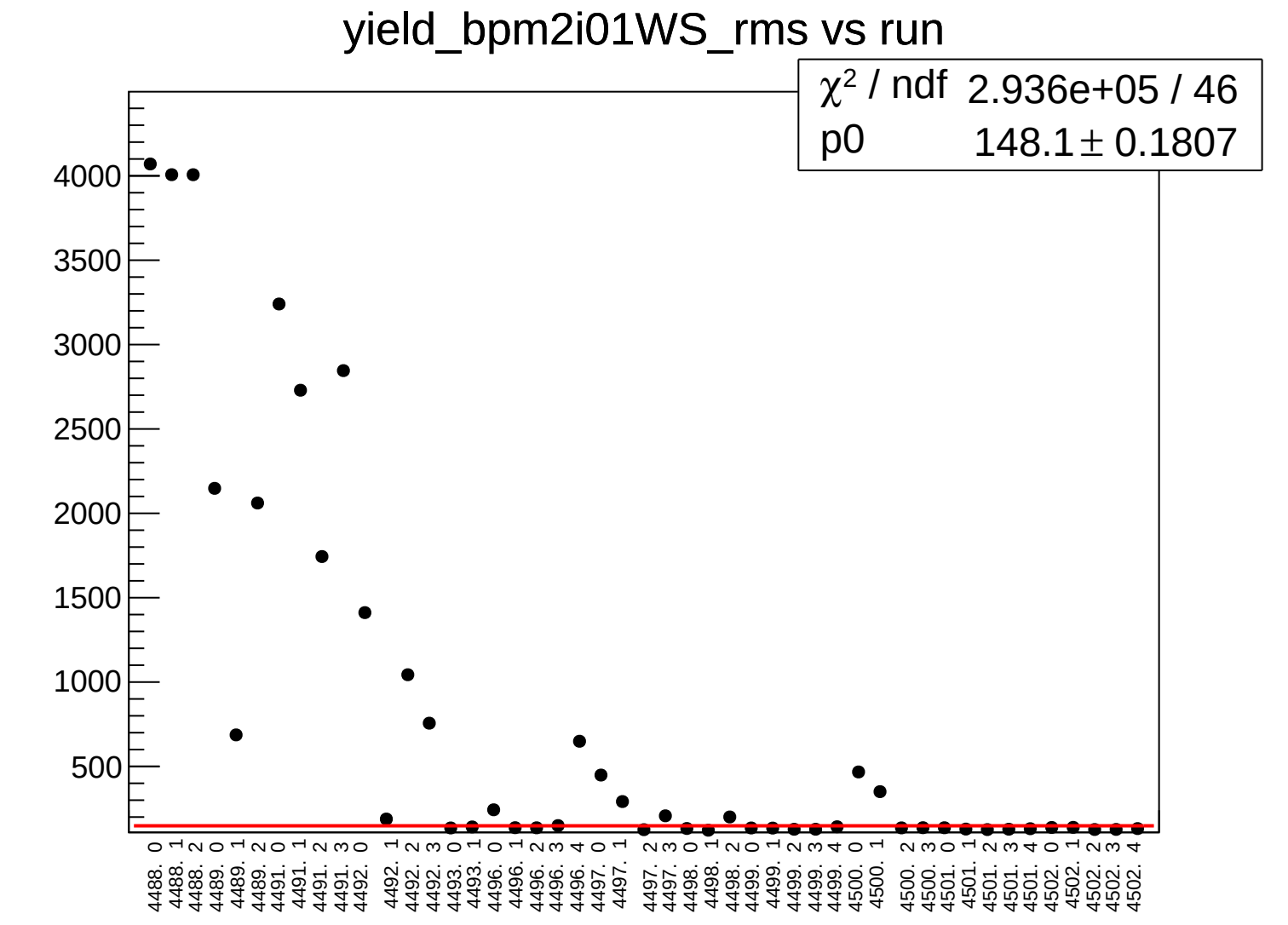

yield_cav4dQ_rms vs run
χ² / ndf 418.4 / 46
p0 0.006808 ± 6.931e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
0.0065
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

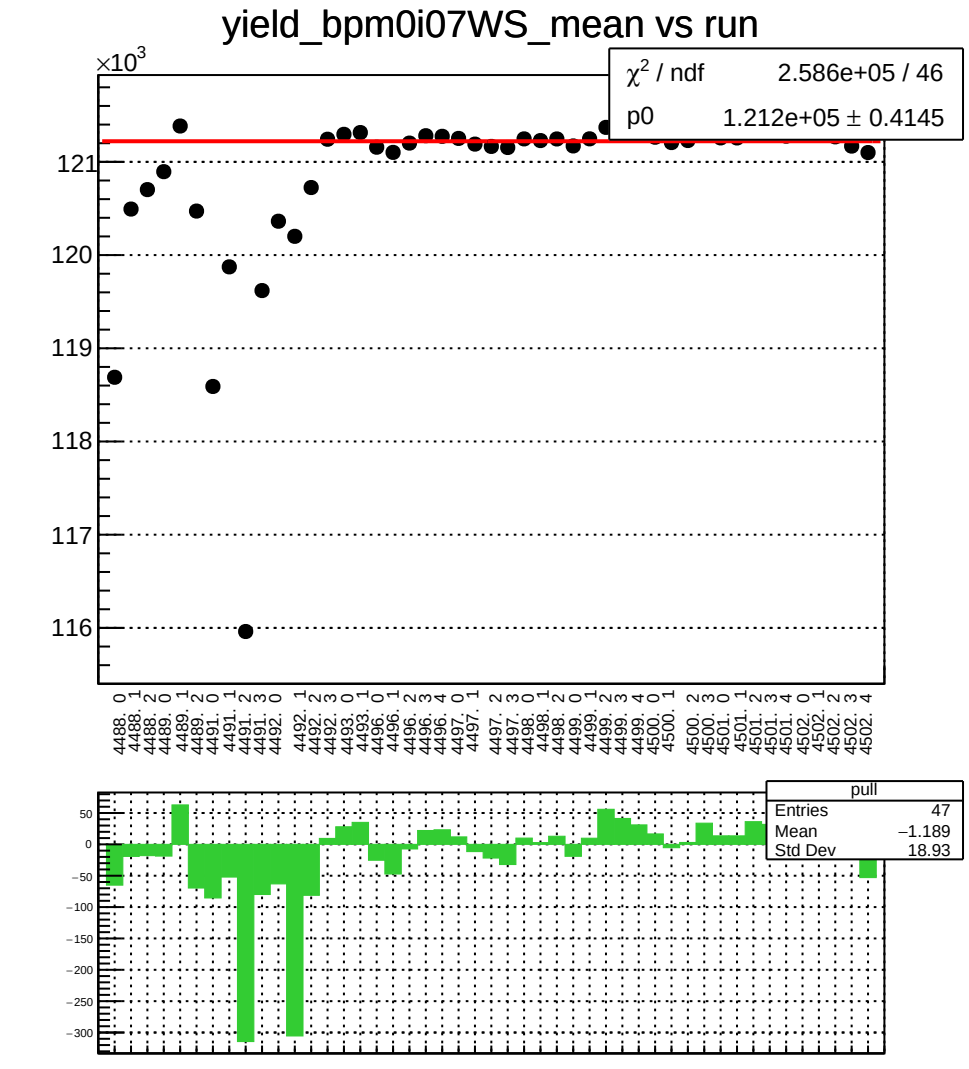

yield_bcm0l02_mean vs run
χ² / ndf 1.356e+06 / 46
p0 70.74 ± 0.000464
71.5
71
70.5
70
69.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 145.6
Std Dev 120.5
300
200
100
0
−100
−200
−300
−400
−500

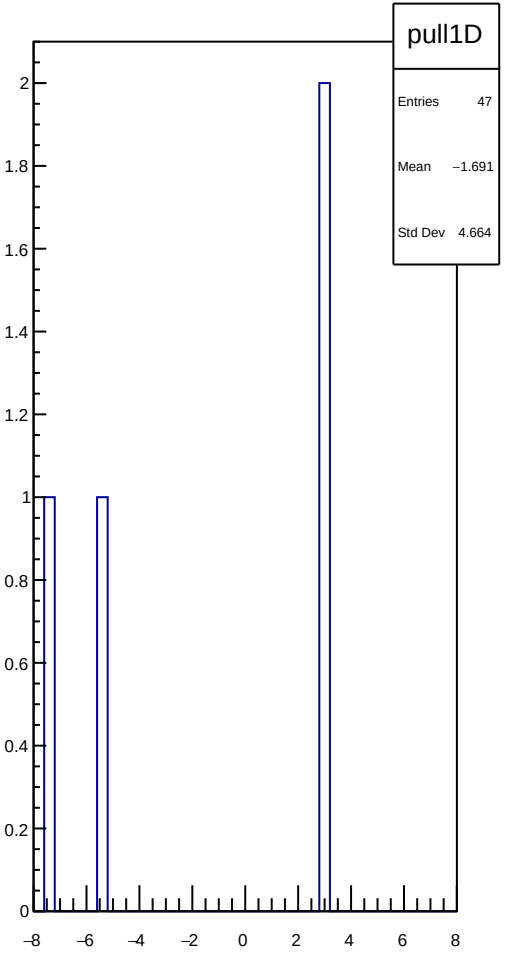

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

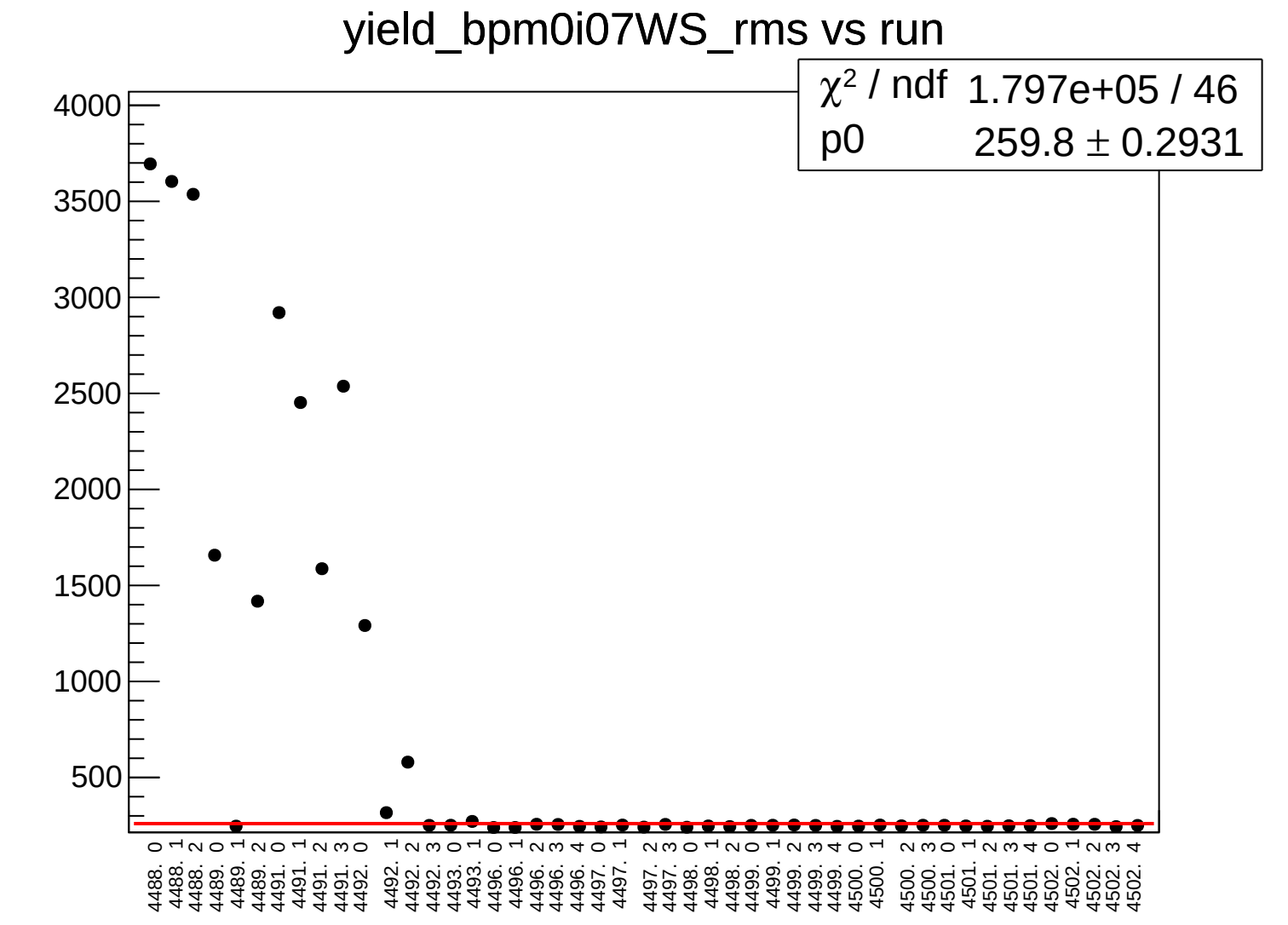

yield_bcm0l02_rms vs run
χ² / ndf 3.17e+04 / 46
p0 0.317 ± 0.0003281
0.5
0.45
0.4
0.35
0.3
0.25
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

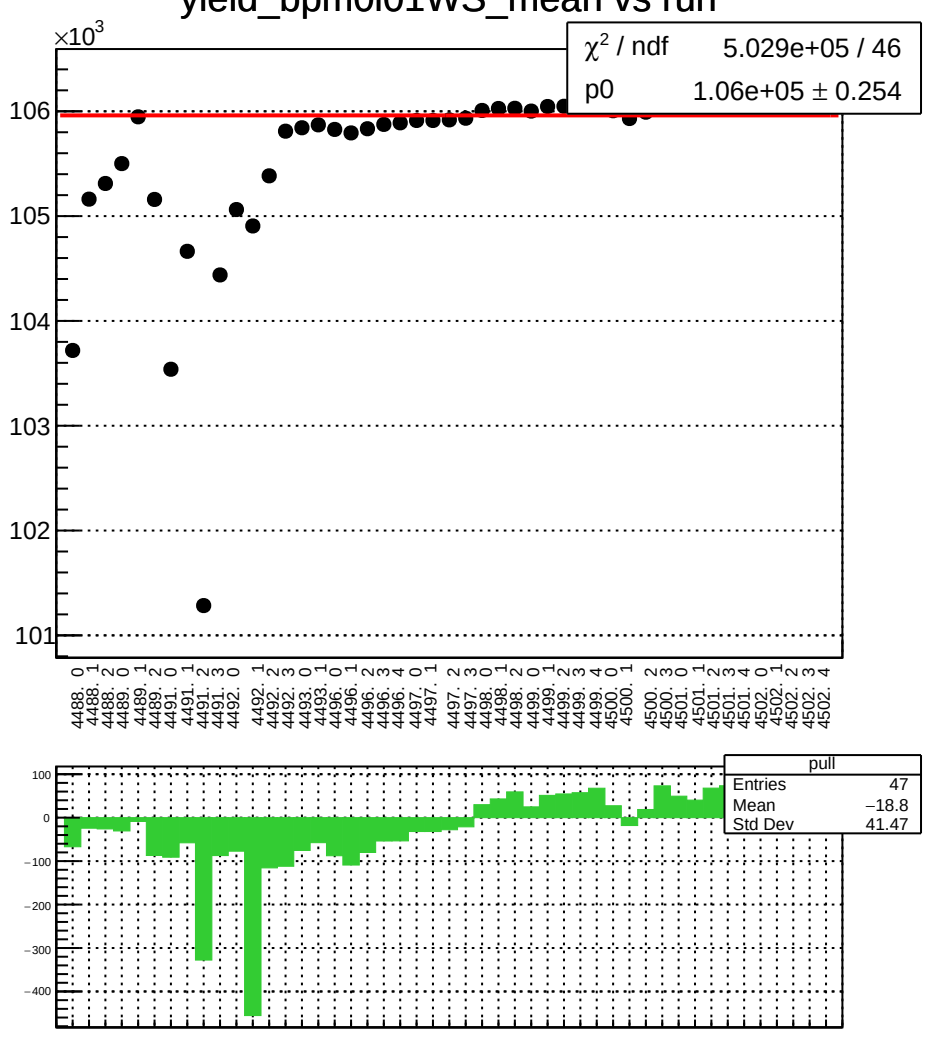

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.339e+06 / 46
p0 1.101e+05 ± 0.2556
111
110
109
108
107
106
105
104
103
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −19.4
Std Dev 43.21
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 47
Mean 2.314
Std Dev 3.447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

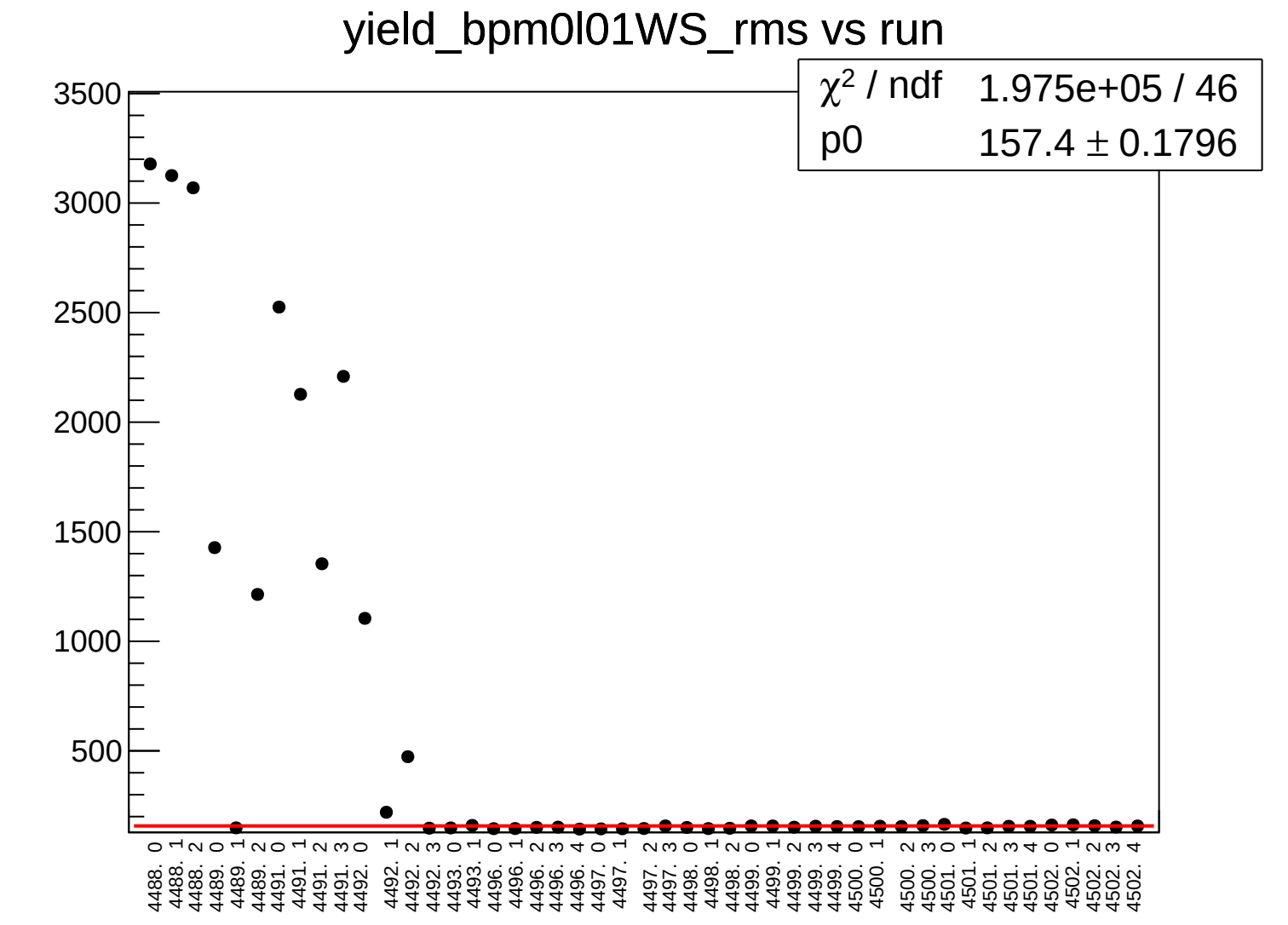

yield_bpm2i01WS_rms vs run
χ² / ndf 2.936e+05 / 46
p0 148.1 ± 0.1807
4000
3500
3000
2500
2000
1500
1000
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

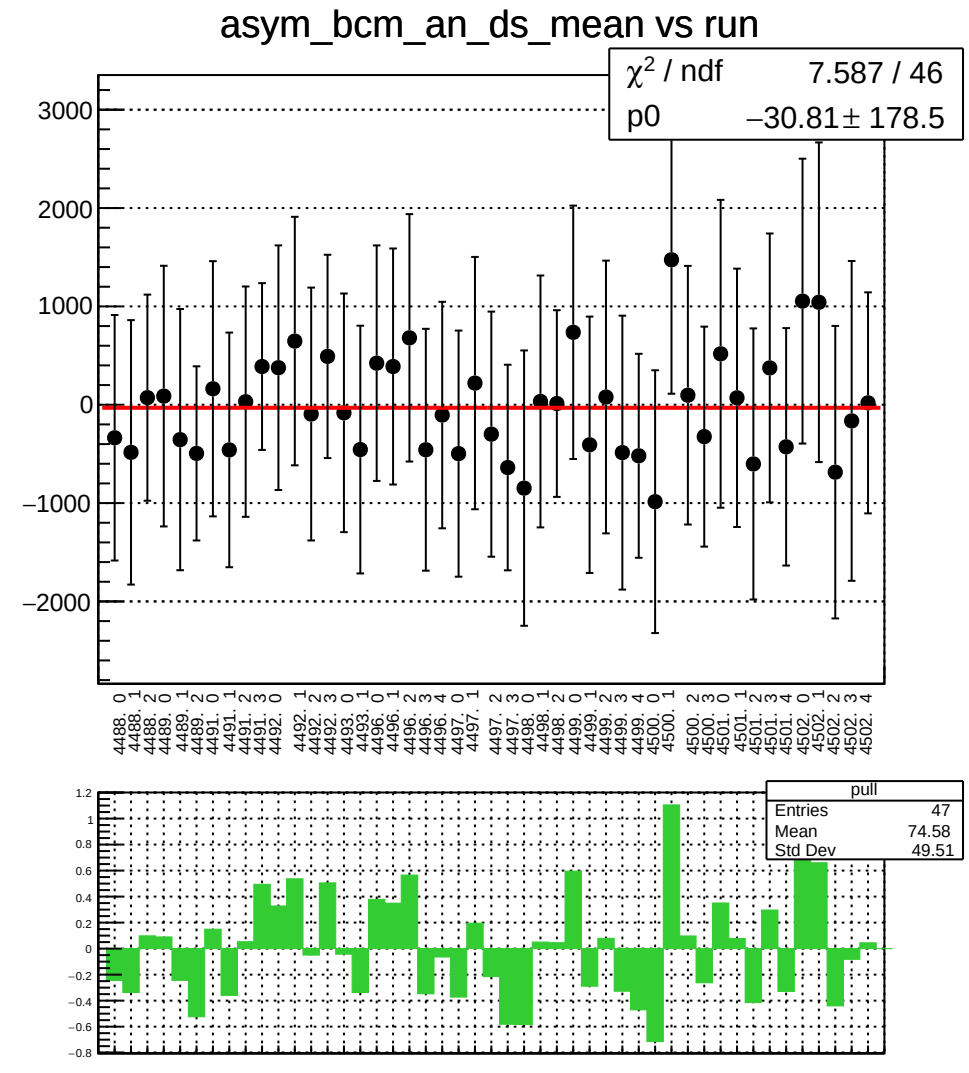

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.586e+05 / 46
p0 1.212e+05 ± 0.4145
121
120
119
118
117
116
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −1.189
Std Dev 18.93
50
0
−50
−100
−150
−200
−250
−300

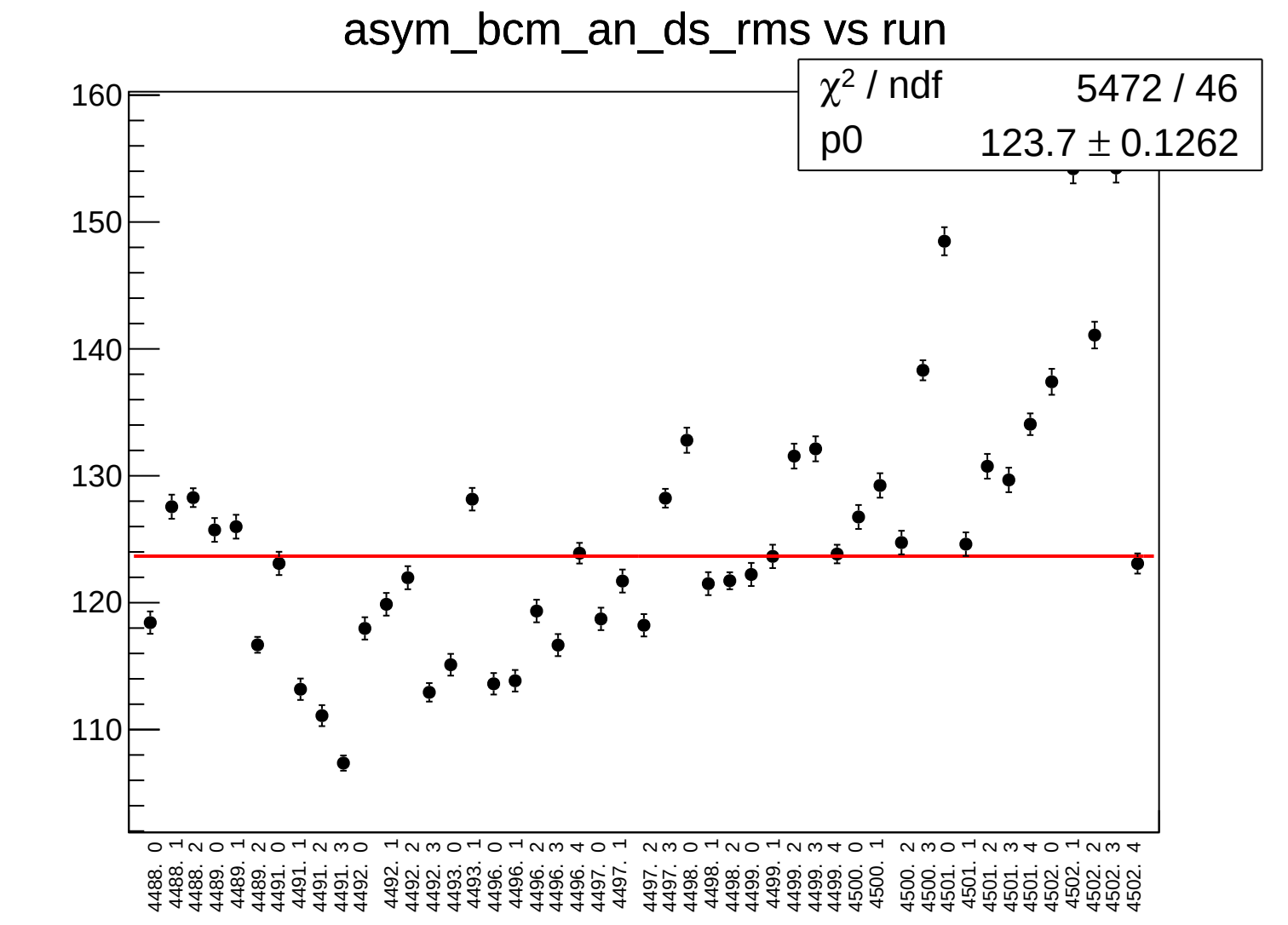

pull1D
Entries 47
Mean −1.691
Std Dev 4.664
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

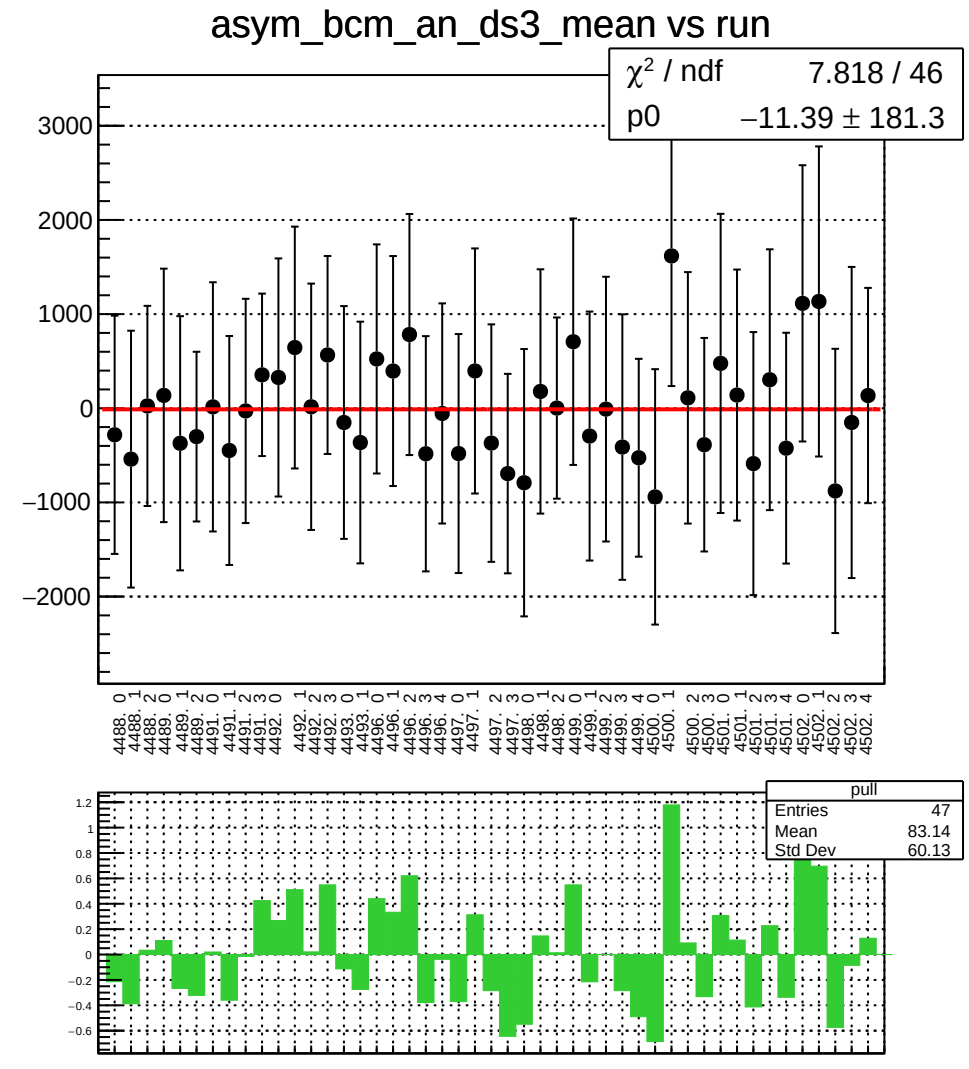

yield_bpm0i07WS_rms vs run
χ² / ndf 1.797e+05 / 46
p0 259.8 ± 0.2931
4000
3500
3000
2500
2000
1500
1000
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

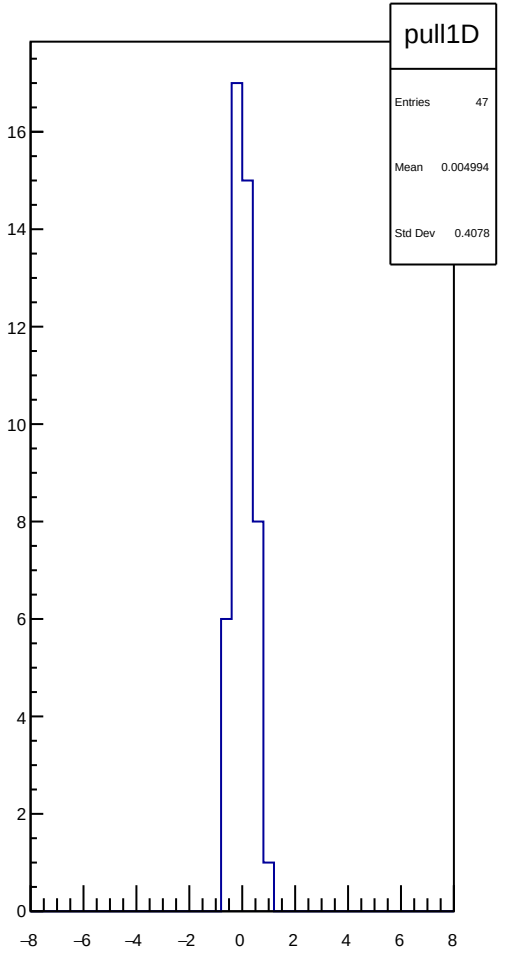

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.029e+05 / 46
p0 1.06e+05 ± 0.254
106
105
104
103
102
101
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −18.8
Std Dev 41.47
100
0
−100
−200
−300
−400
pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

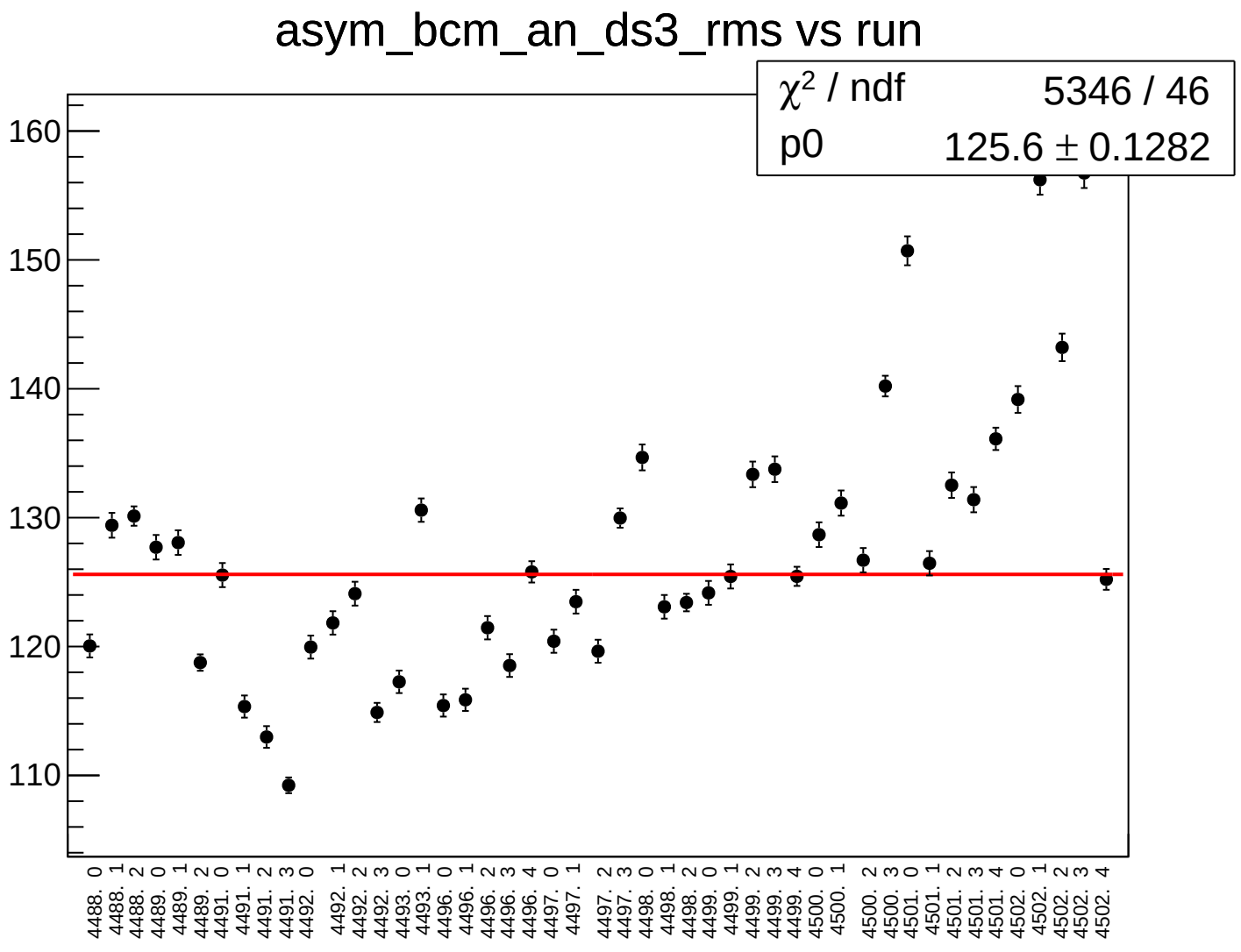

yield_bpm0l01WS_rms vs run
χ² / ndf 1.975e+05 / 46
p0 157.4 ± 0.1796
3500
3000
2500
2000
1500
1000
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

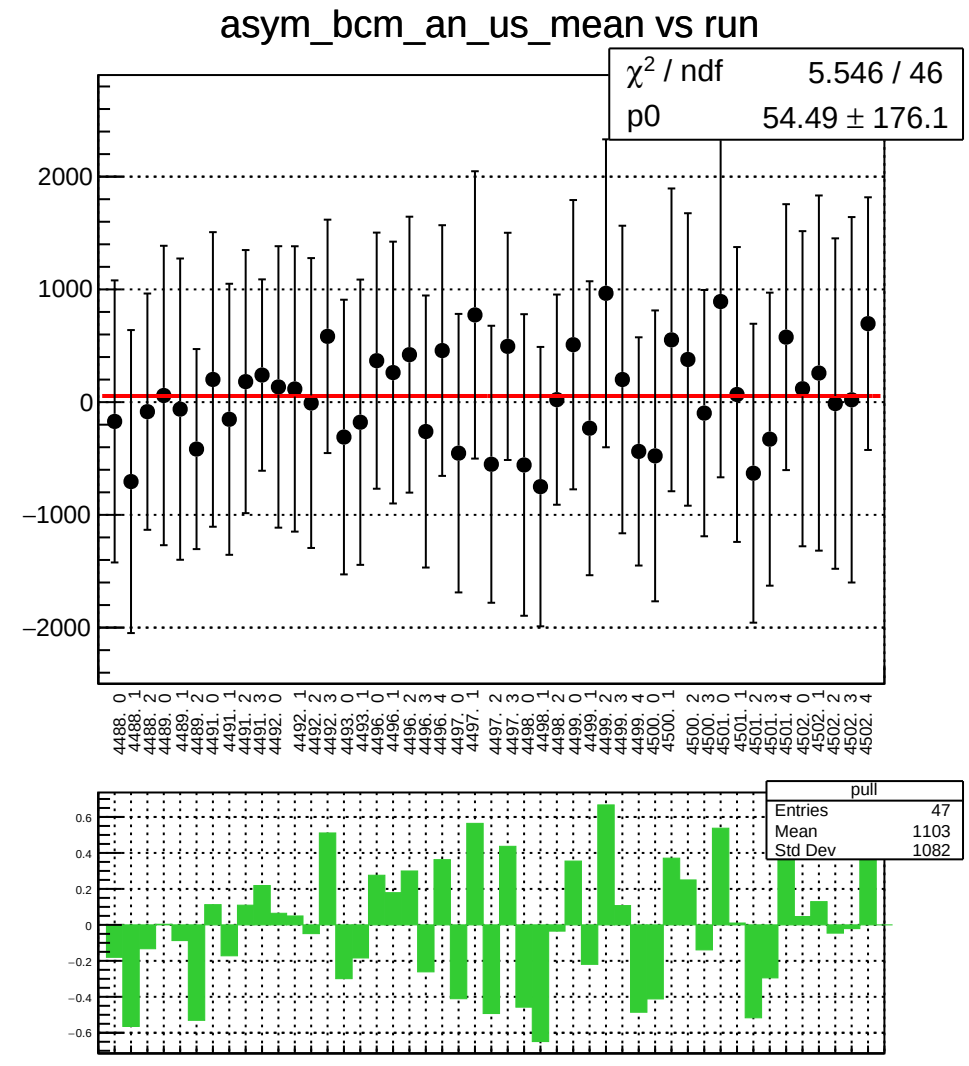

asym_bcm_an_ds_mean vs run
χ² / ndf 7.587 / 46
p0 −30.81 ± 178.5
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 74.58
Std Dev 49.51
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean 0.005585
Std Dev 0.4017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

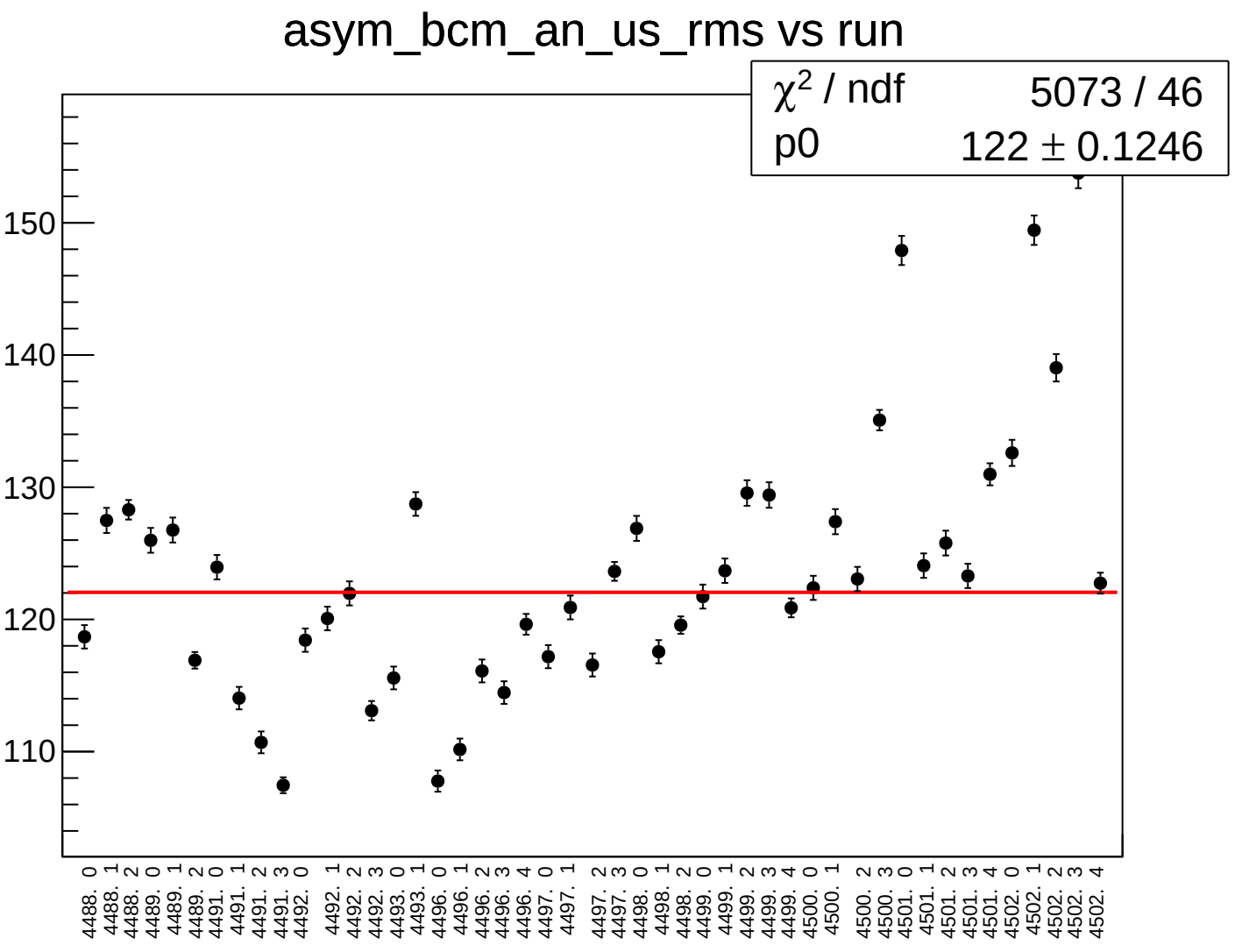

asym_bcm_an_ds_rms vs run
χ² / ndf 5472 / 46
p0 123.7 ± 0.1262
160
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

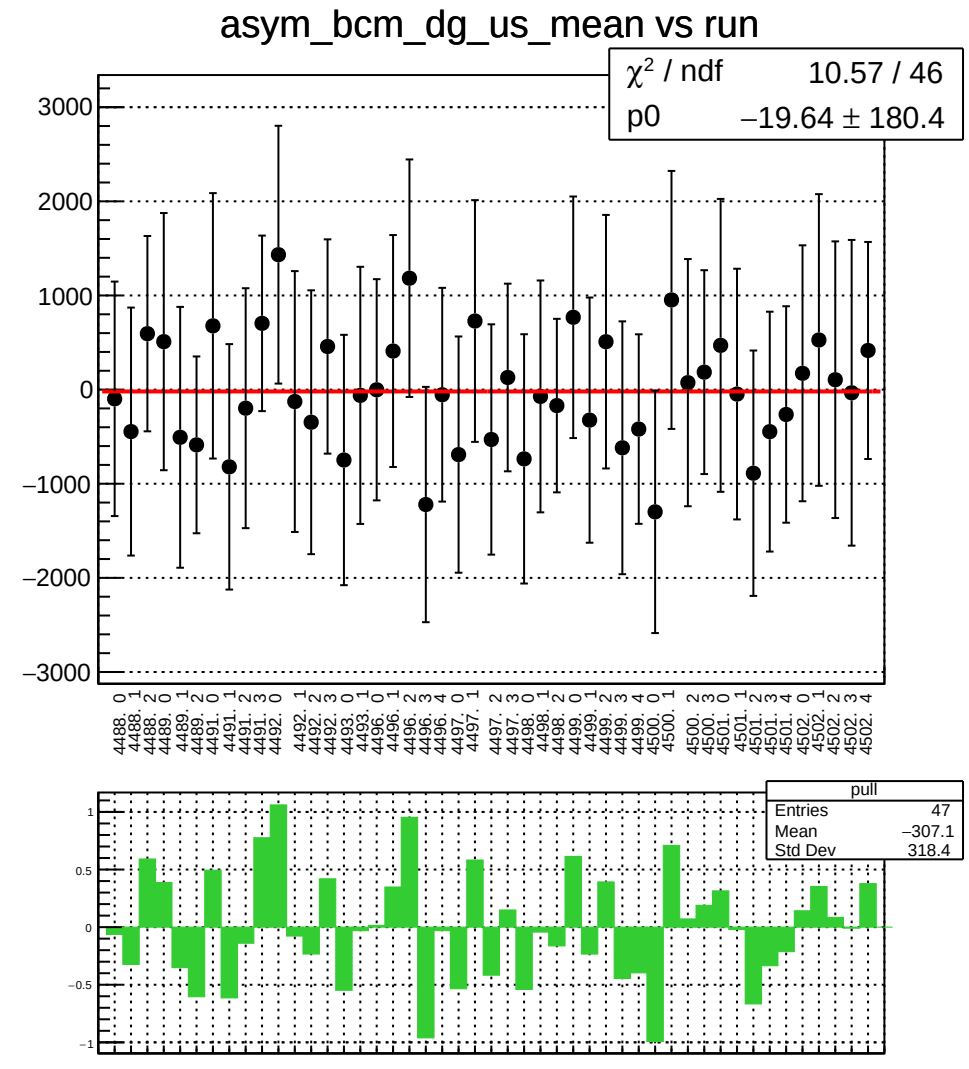

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.818 / 46
p0 −11.39 ± 181.3
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 83.14
Std Dev 60.13
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

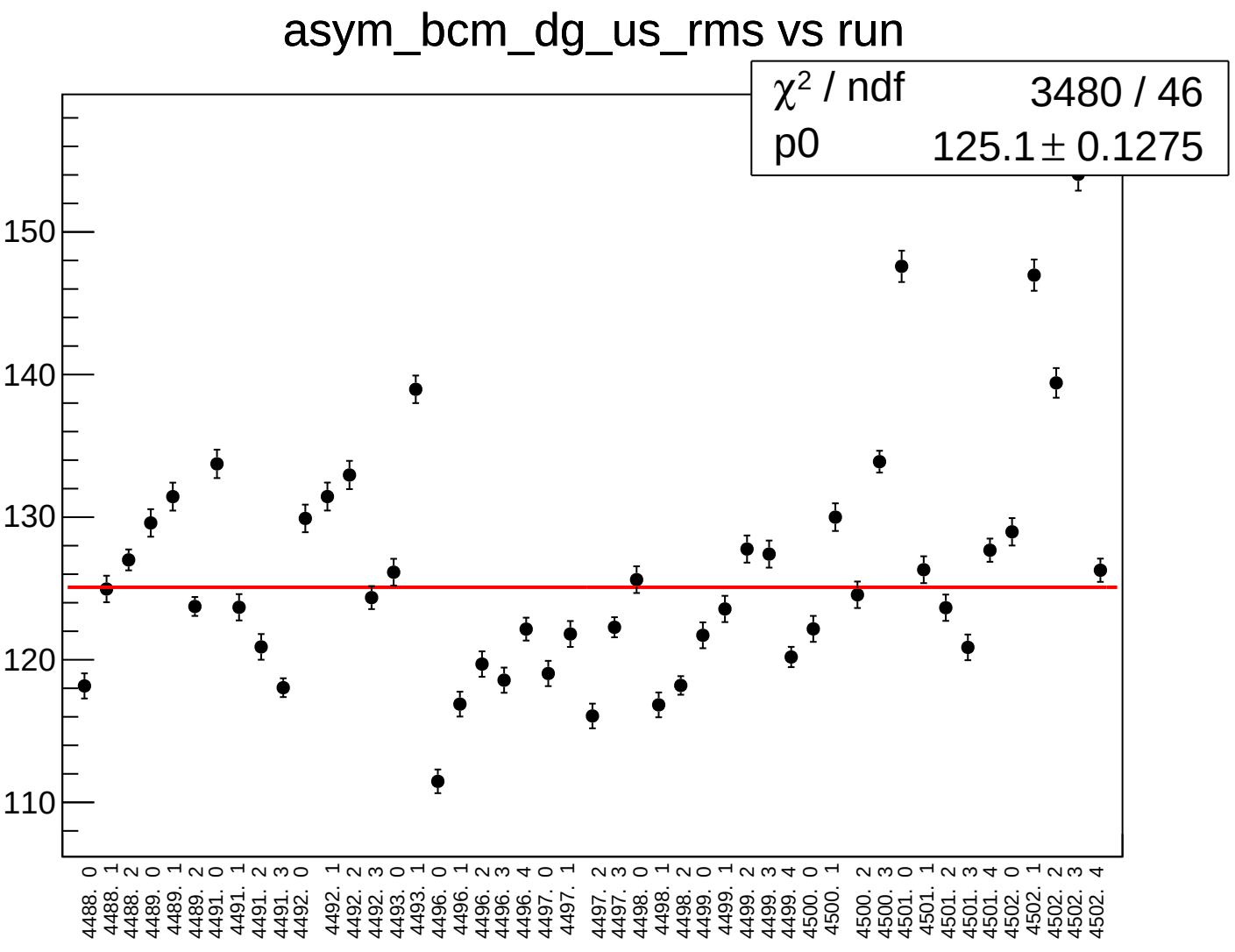

pull1D
Entries 47
Mean 0.004994
Std Dev 0.4078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

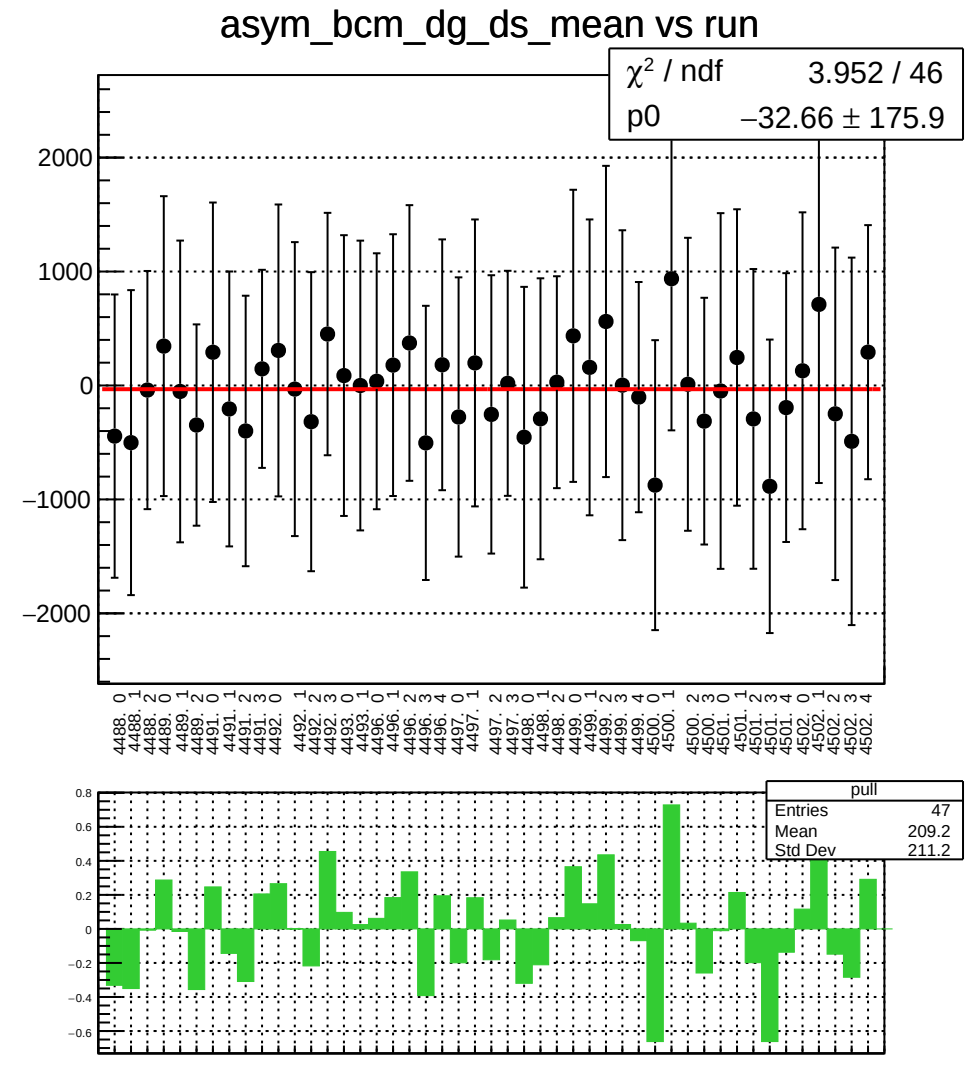

asym_bcm_an_ds3_rms vs run
χ² / ndf 5346 / 46
p0 125.6 ± 0.1282
160
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

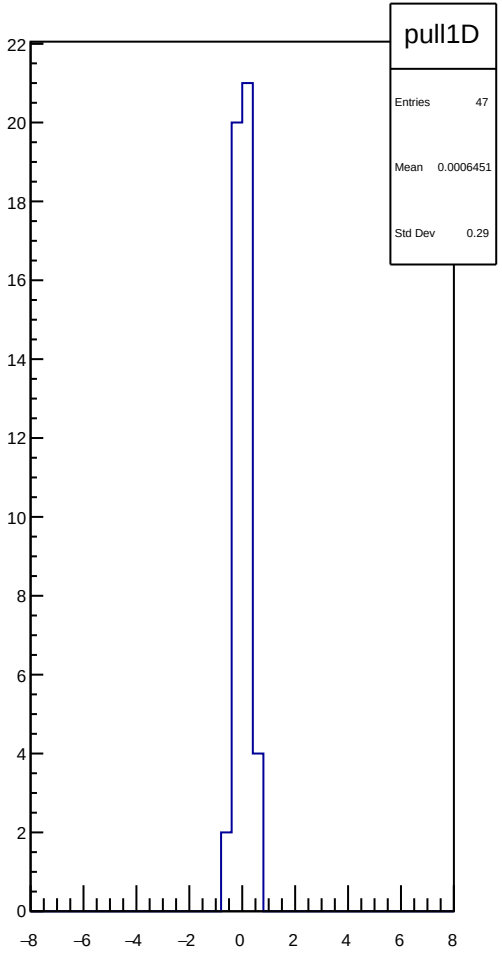

asym_bcm_an_us_mean vs run
χ² / ndf 5.546 / 46
p0 54.49 ± 176.1
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 1103
Std Dev 1082
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 47
Mean 0.0007544
Std Dev 0.3435
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

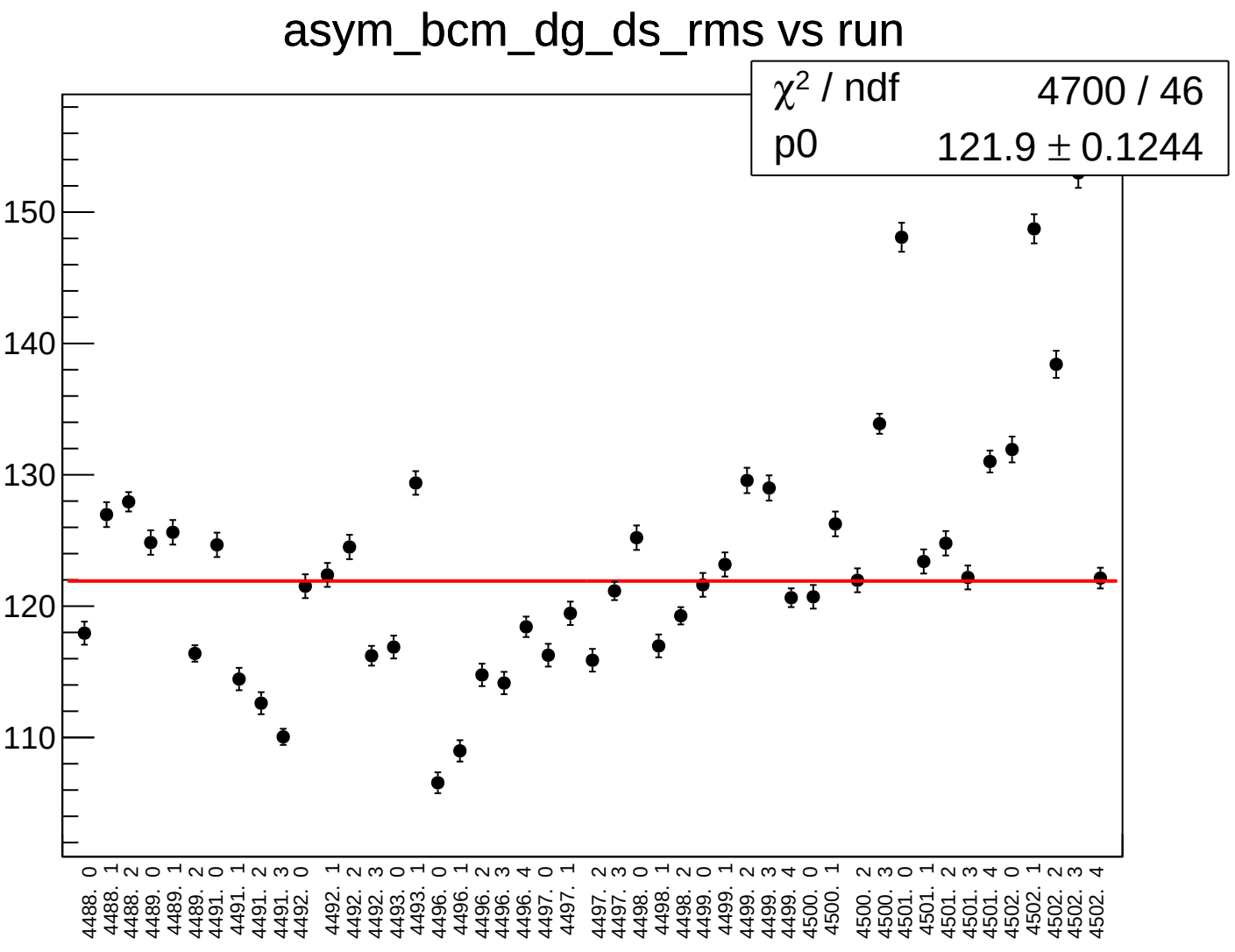

asym_bcm_an_us_rms vs run
χ² / ndf 5073 / 46
p0 122 ± 0.1246
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

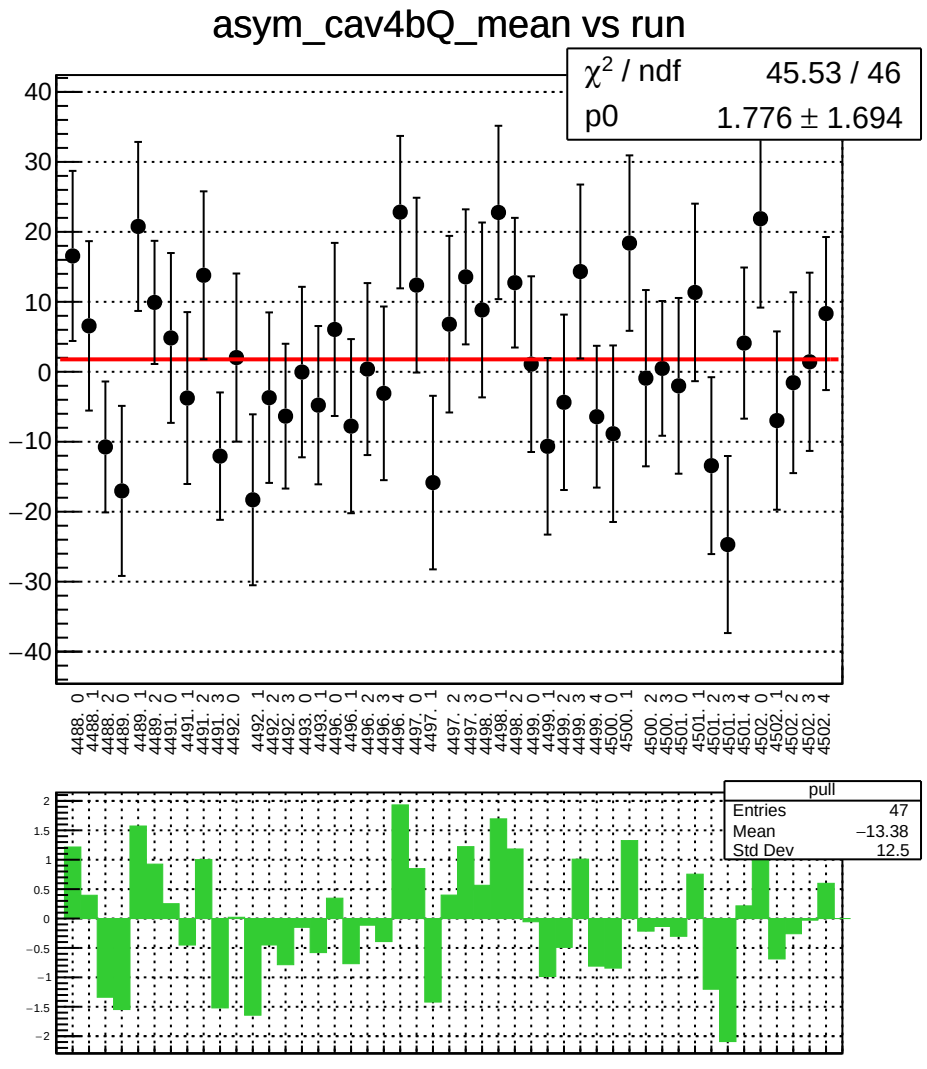

asym_bcm_dg_us_mean vs run
χ² / ndf 10.57 / 46
p0 −19.64 ± 180.4
3000
2000
1000
0
−1000
−2000
−3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −307.1
Std Dev 318.4
1
0.5
0
−0.5
−1
pull1D
Entries 47
Mean 0.000809
Std Dev 0.4742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

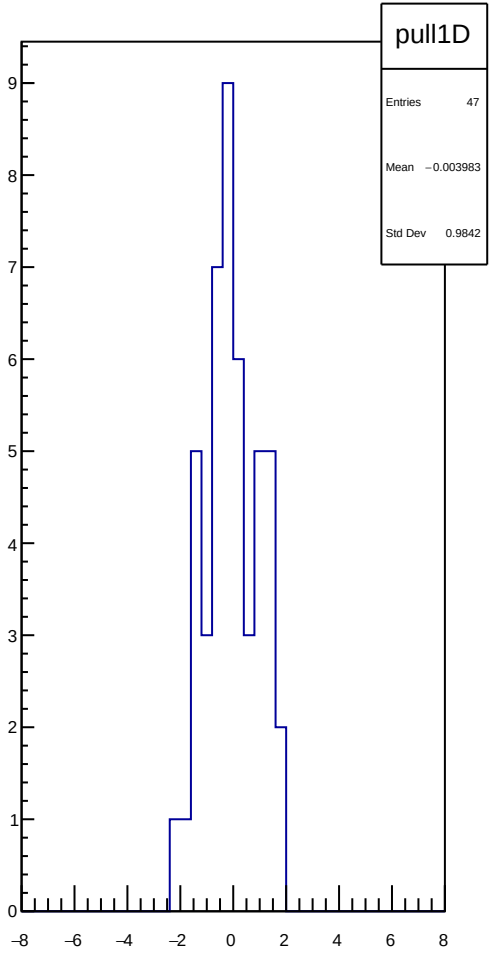

asym_bcm_dg_us_rms vs run
χ² / ndf 3480 / 46
p0 125.1 ± 0.1275
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

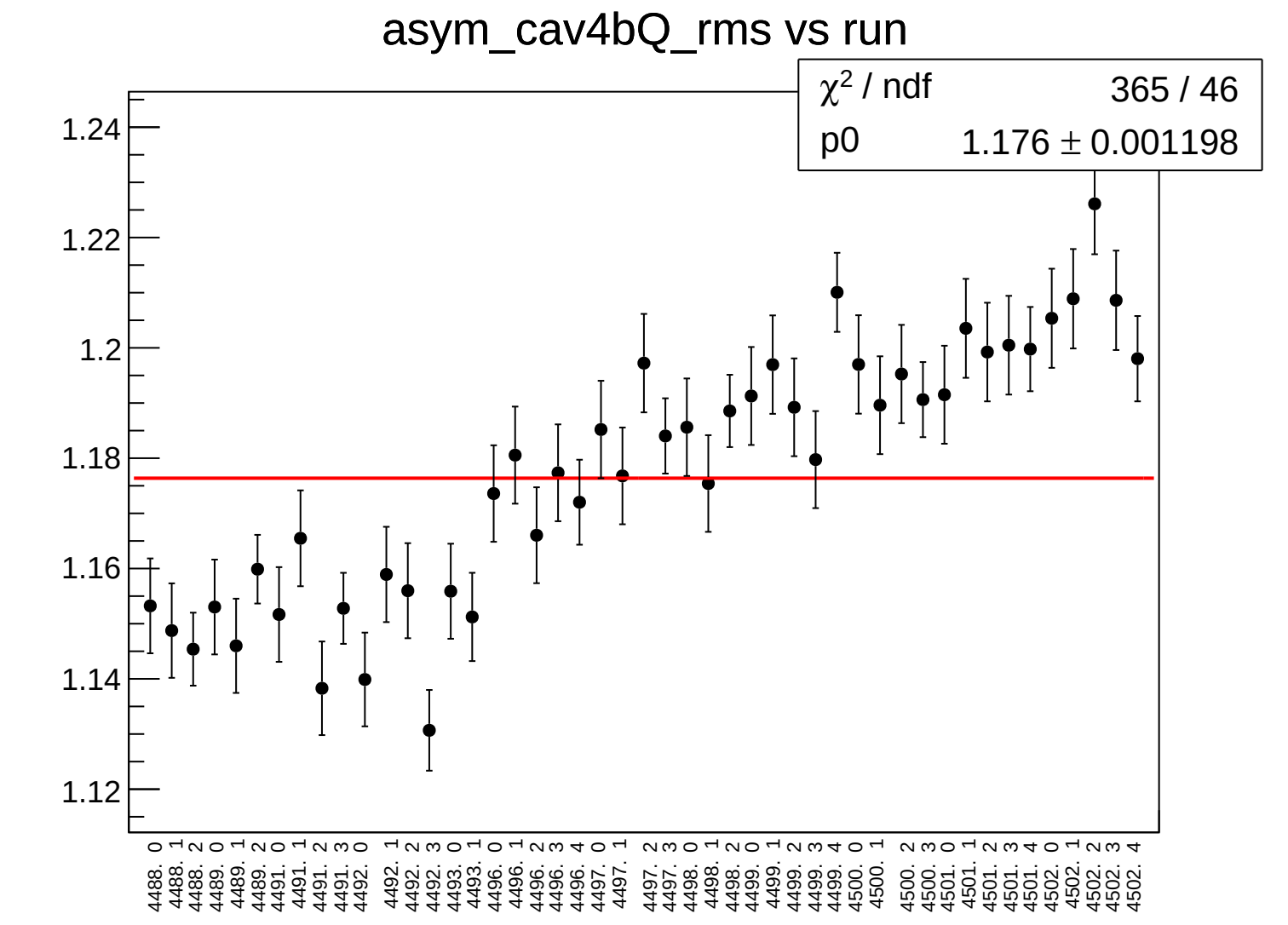

asym_bcm_dg_ds_mean vs run
χ² / ndf 3.952 / 46
p0 −32.66 ± 175.9
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 209.2
Std Dev 211.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

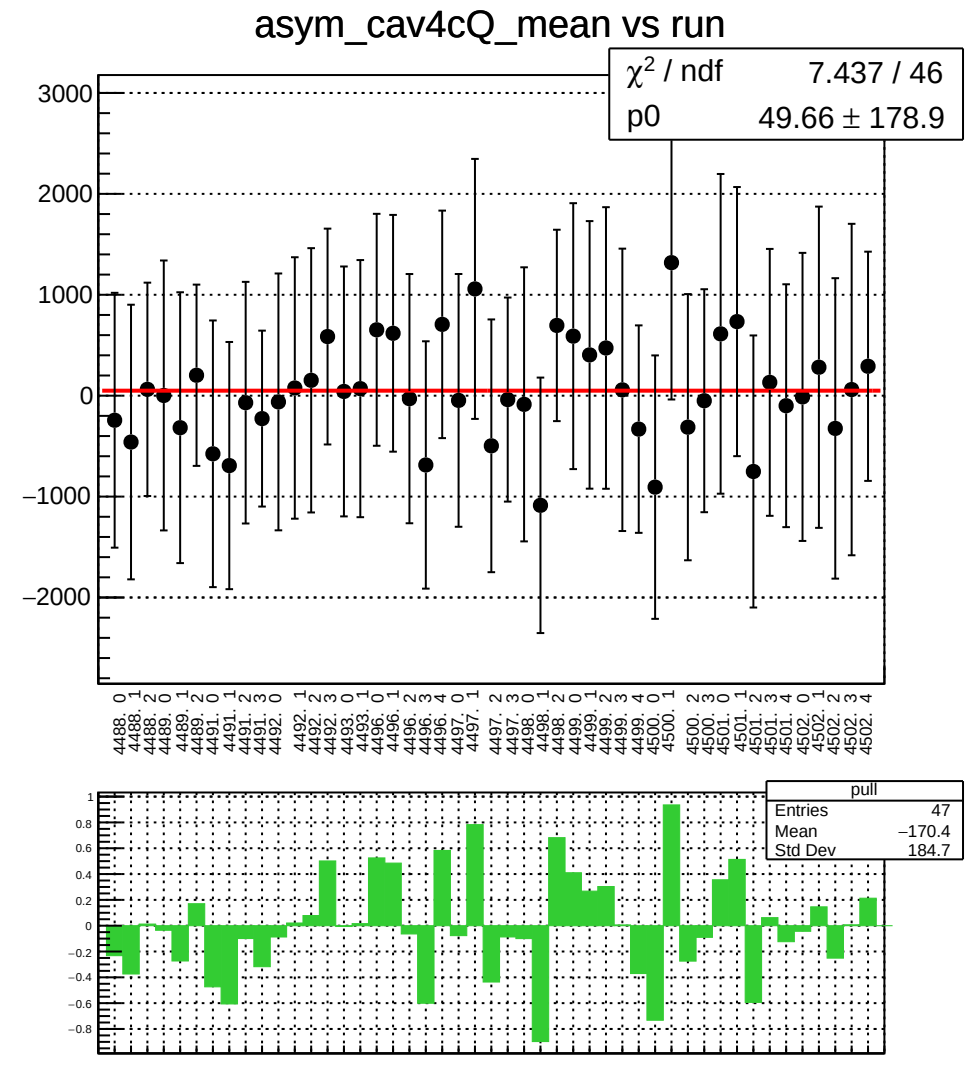

pull1D
Entries 47
Mean 0.0006451
Std Dev 0.29
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

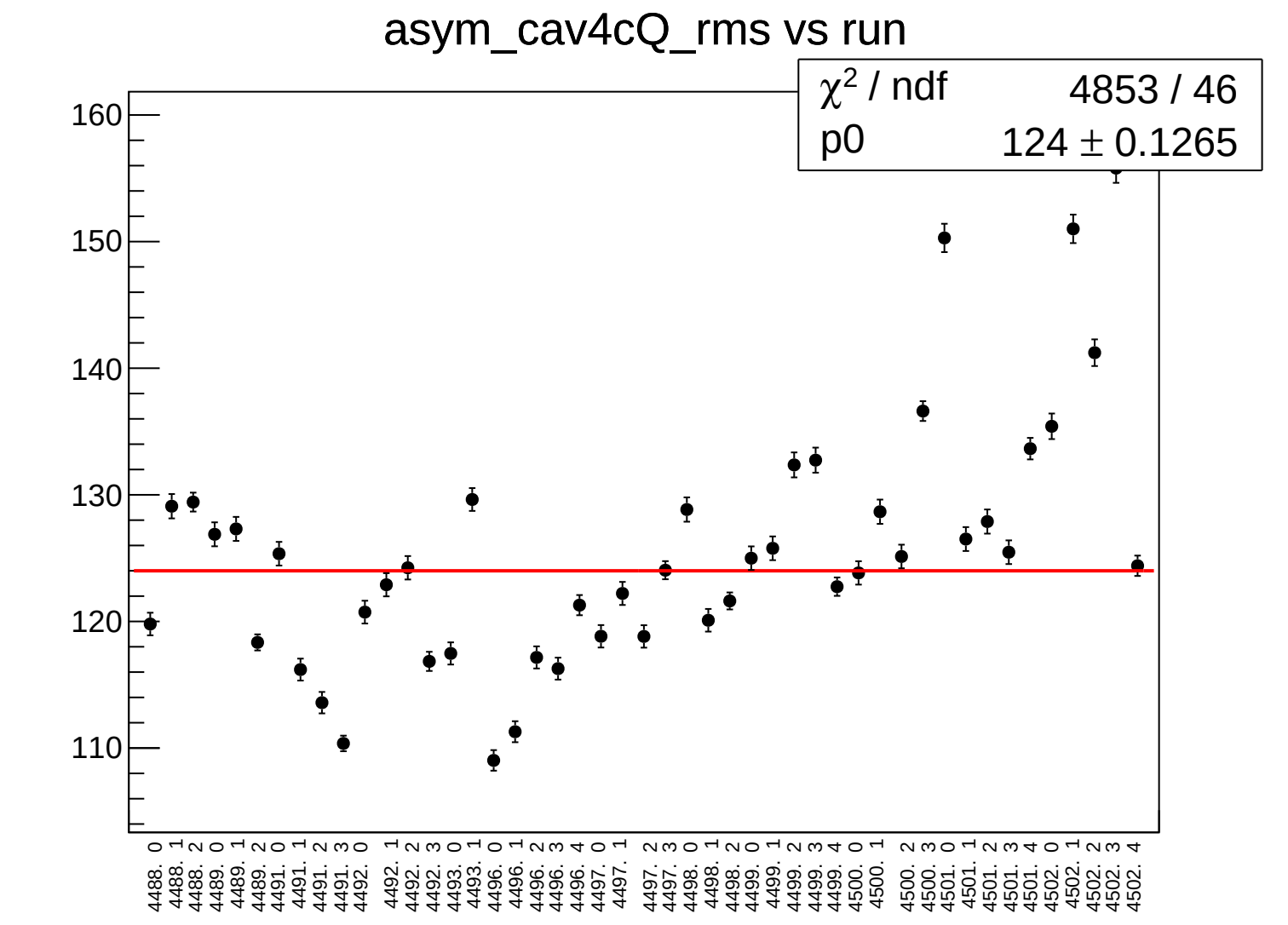

asym_bcm_dg_ds_rms vs run
χ² / ndf 4700 / 46
p0 121.9 ± 0.1244
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

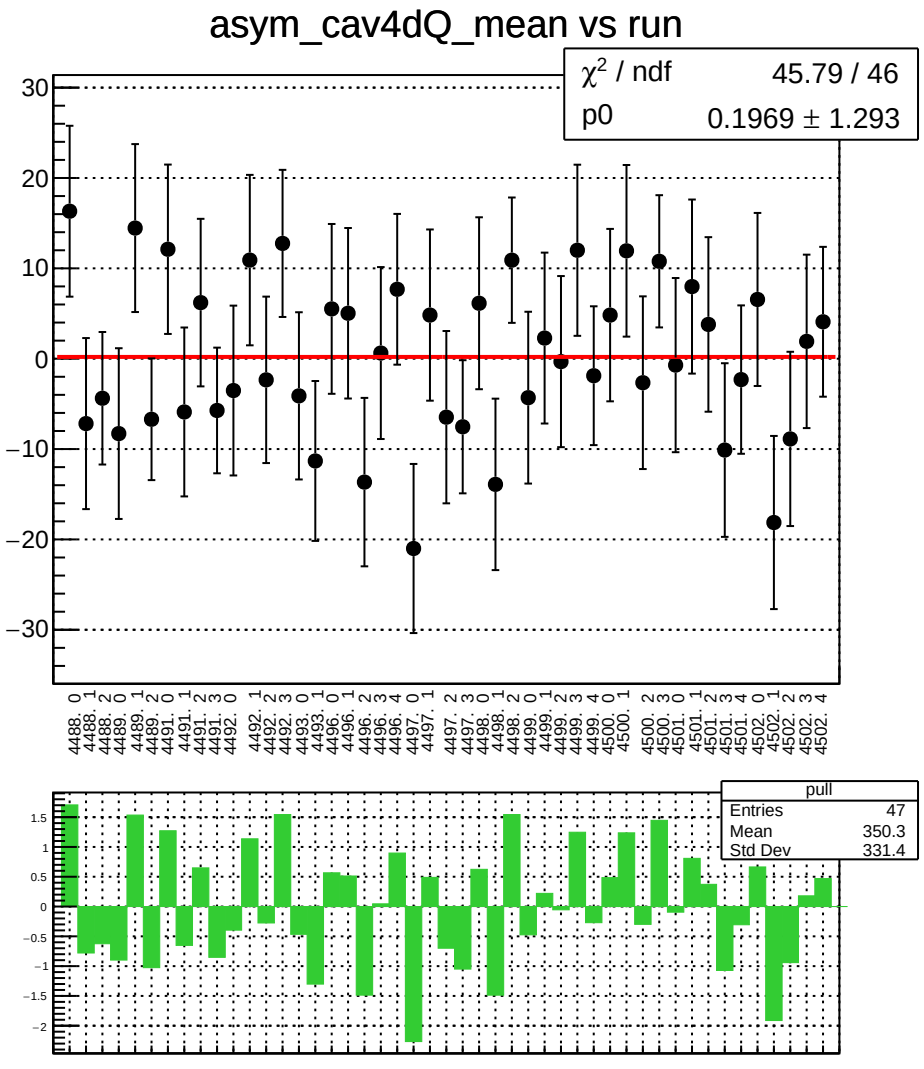

asym_cav4bQ_mean vs run
χ² / ndf 45.53 / 46
p0 1.776 ± 1.694
pull
Entries 47
Mean −13.38
Std Dev 12.5

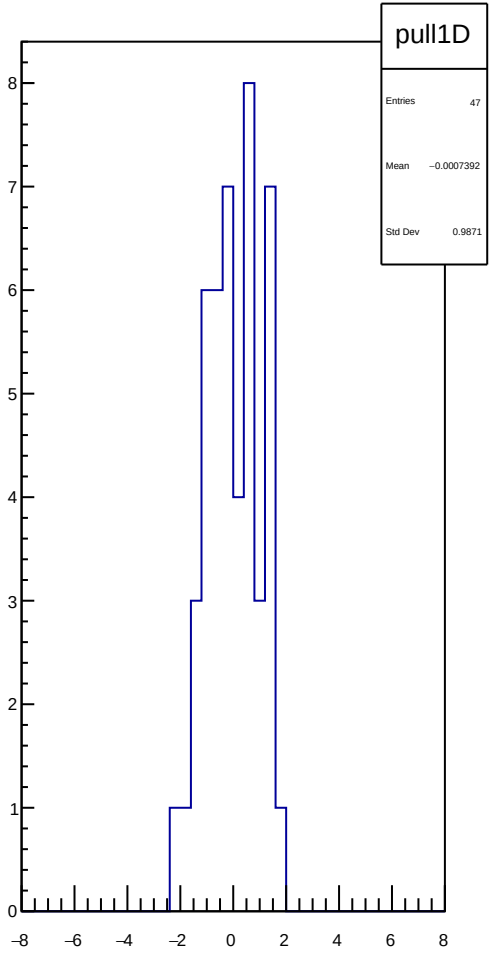

pull1D
Entries 47
Mean −0.003983
Std Dev 0.9842

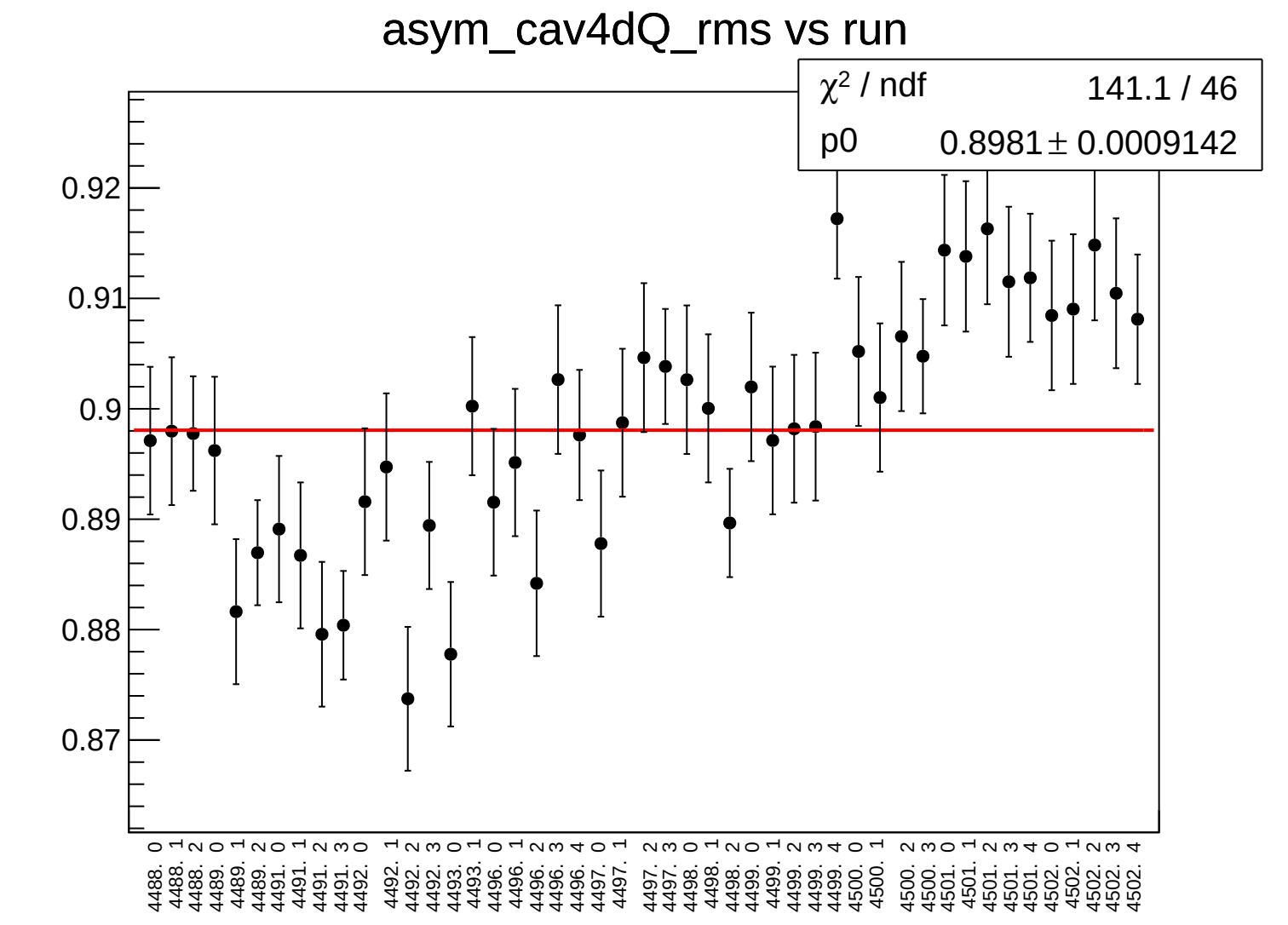

asym_cav4bQ_rms vs run
χ² / ndf 365 / 46
p0 1.176 ± 0.001198
1.24
1.22
1.2
1.18
1.16
1.14
1.12
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

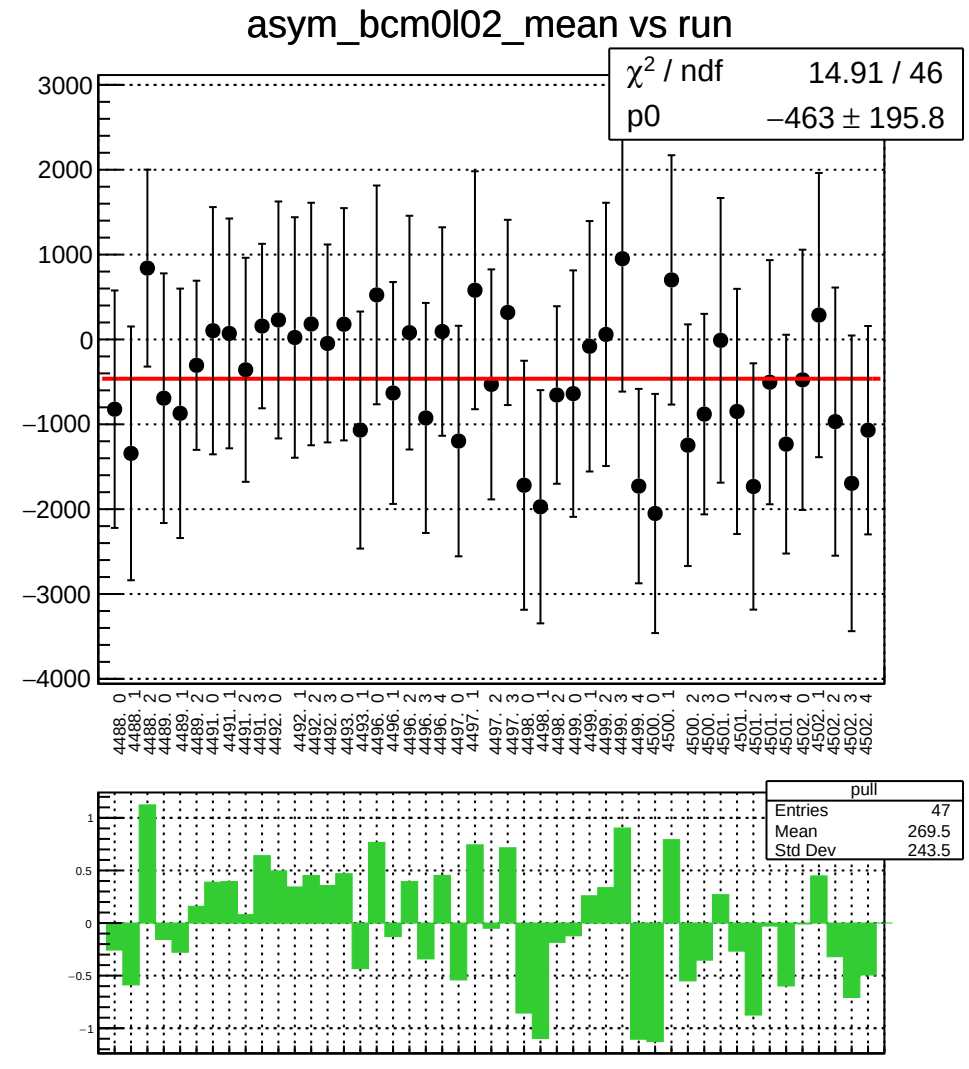

asym_cav4cQ_mean vs run
χ² / ndf 7.437 / 46
p0 49.66 ± 178.9
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −170.4
Std Dev 184.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean −0.003635
Std Dev 0.3978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

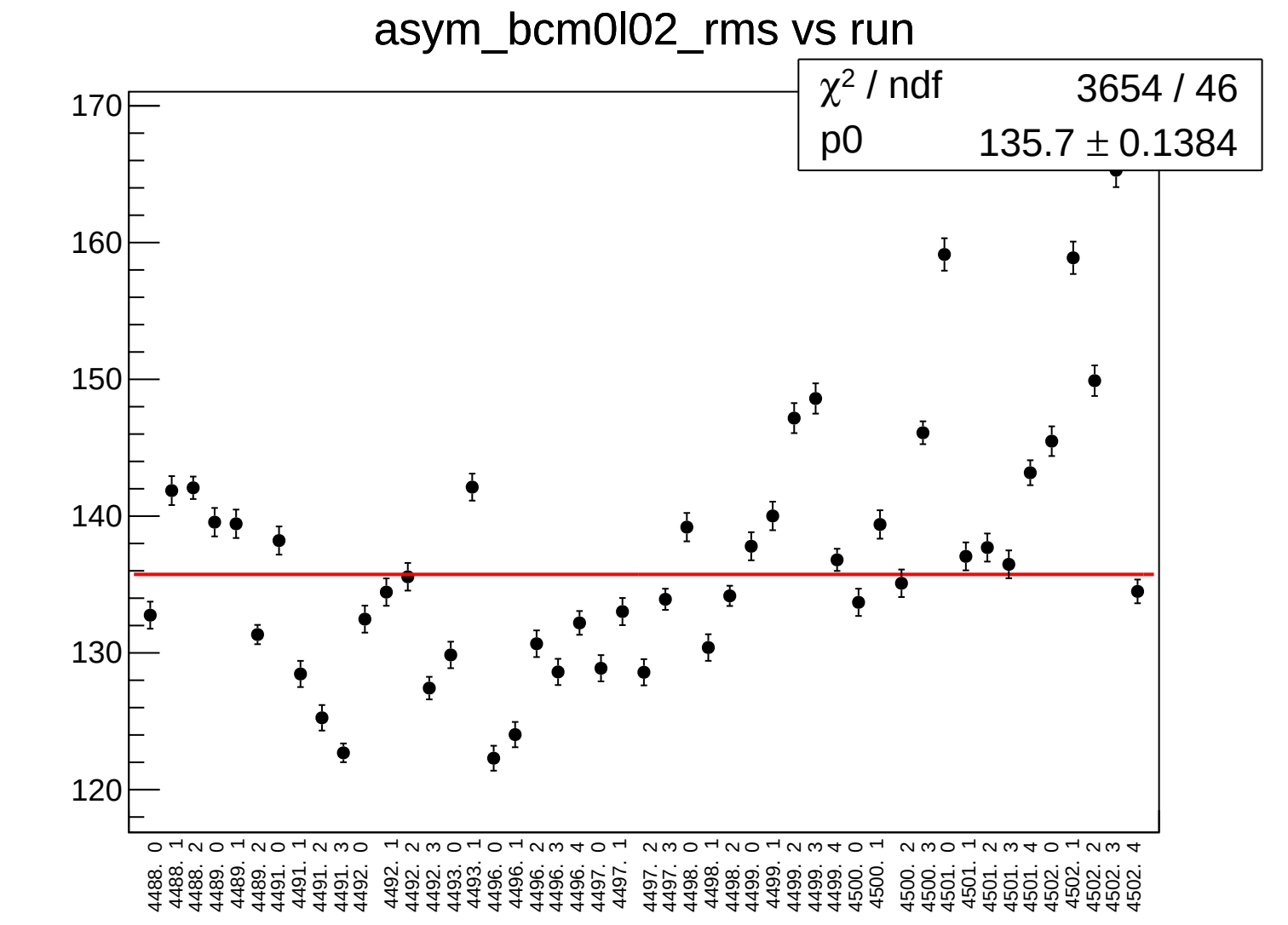

asym_cav4cQ_rms vs run
χ² / ndf 4853 / 46
p0 124 ± 0.1265
160
150
140
130
120
110
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

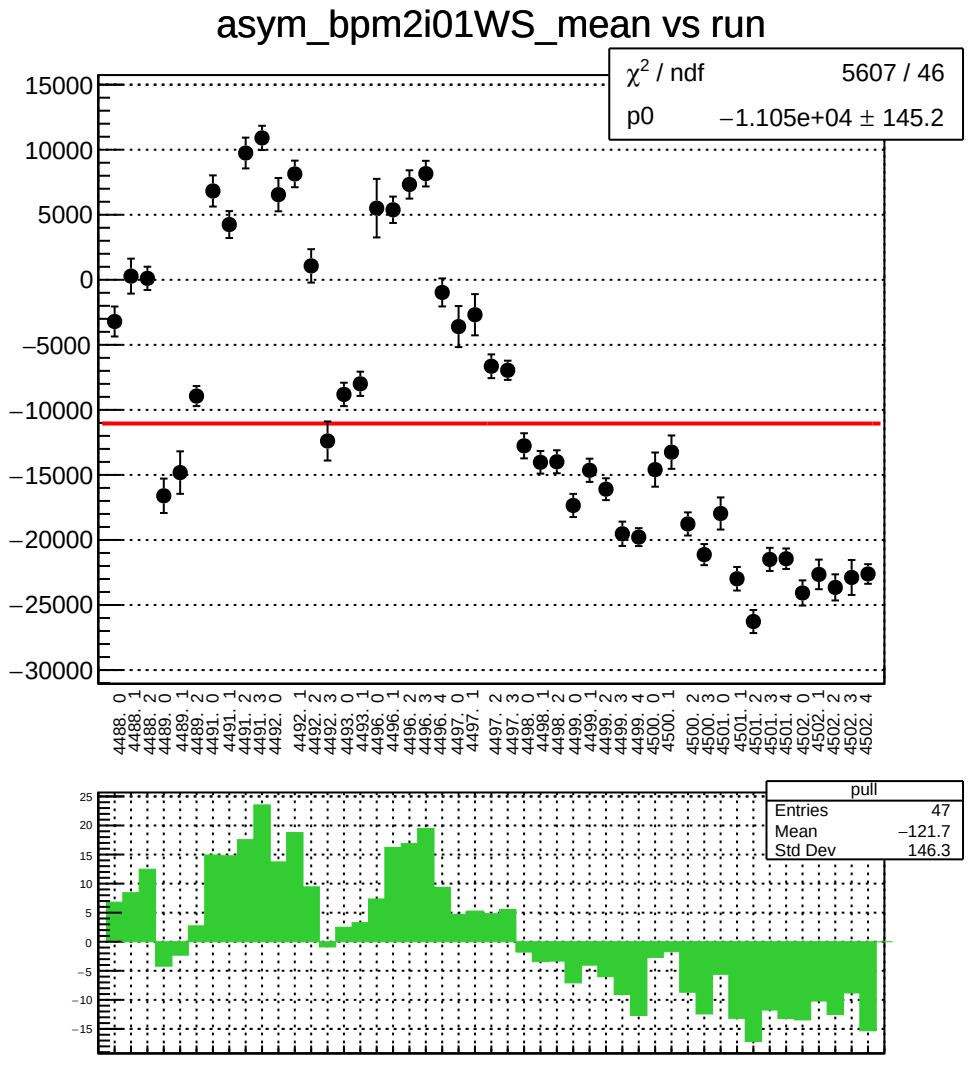

asym_cav4dQ_mean vs run
χ² / ndf 45.79 / 46
p0 0.1969 ± 1.293
pull
Entries 47
Mean 350.3
Std Dev 331.4

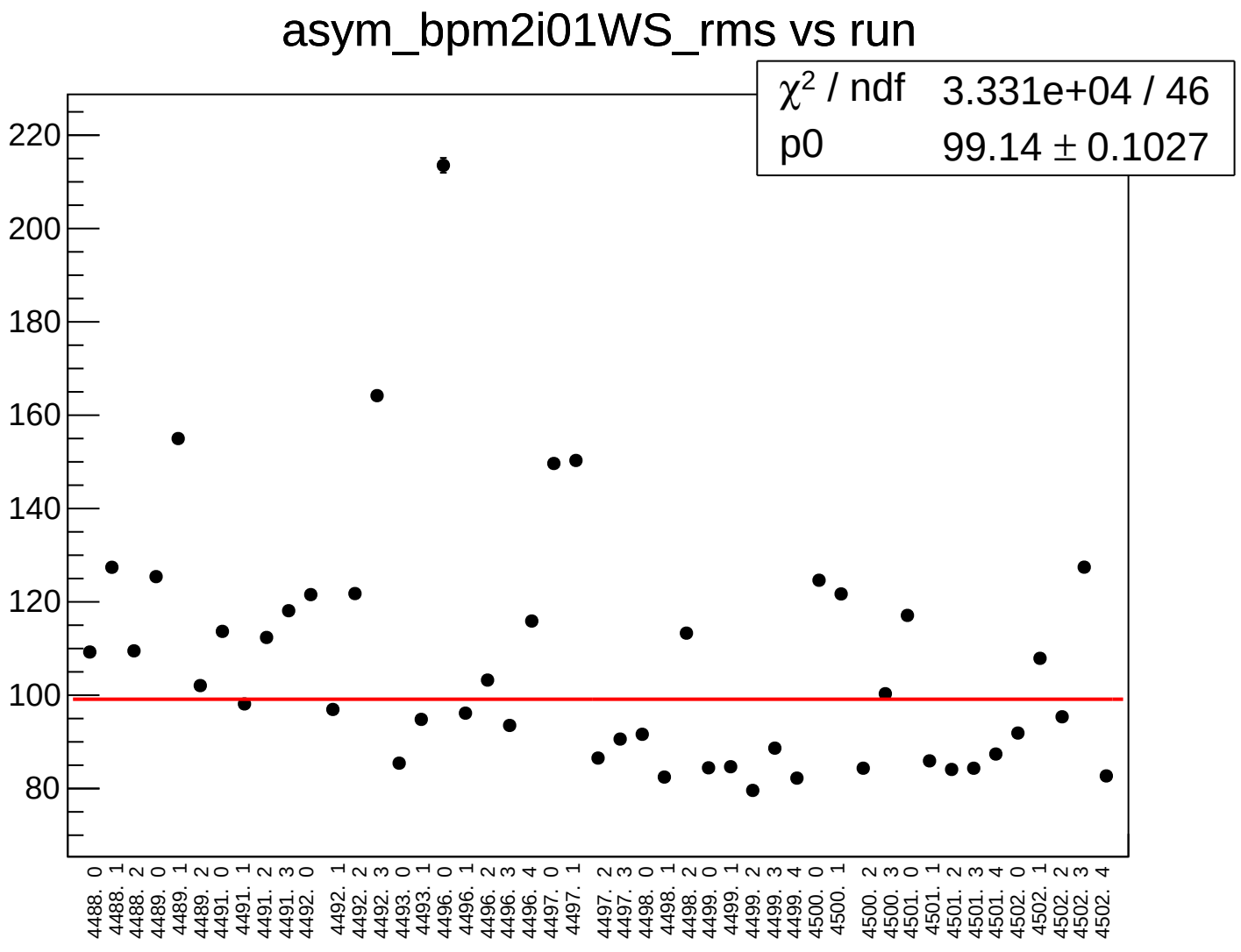

pull1D
Entries 47
Mean −0.0007392
Std Dev 0.9871

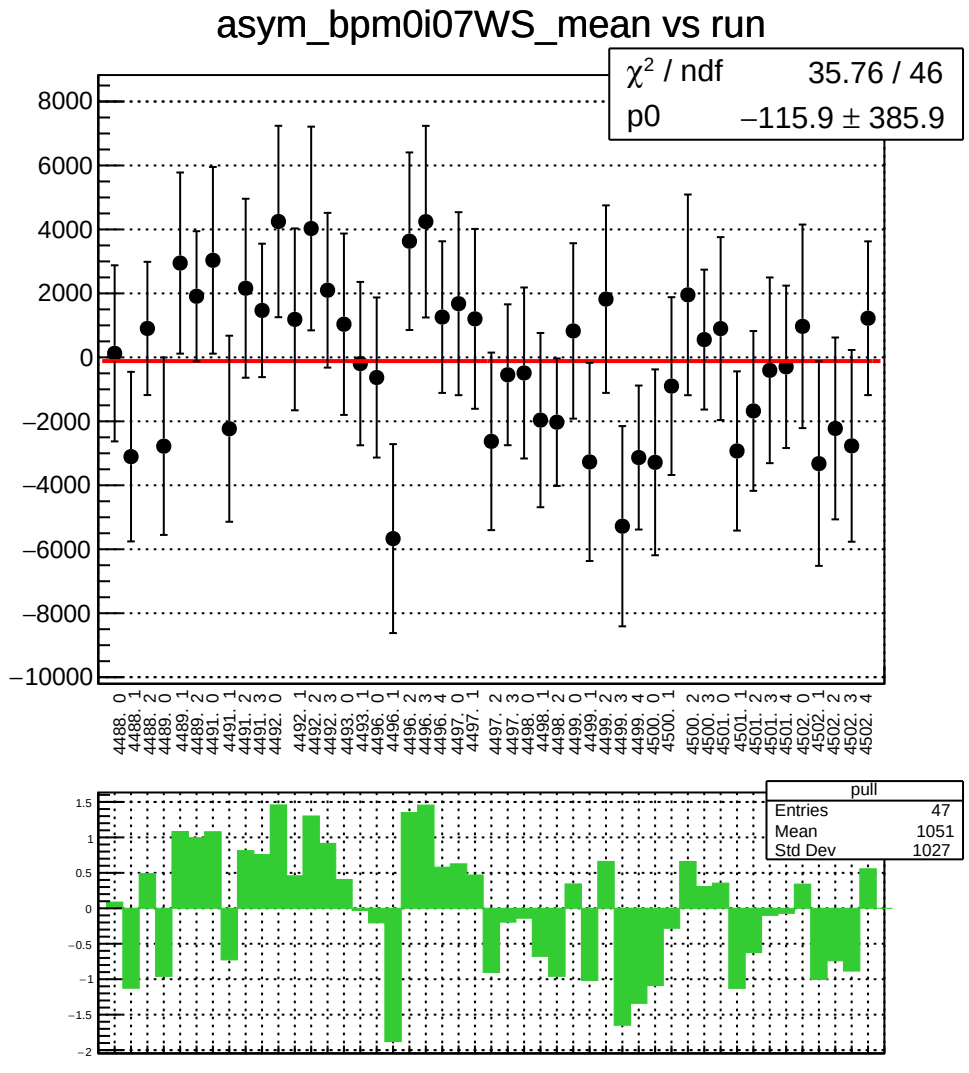

asym_cav4dQ_rms vs run
χ² / ndf 141.1 / 46
p0 0.8981 ± 0.0009142
0.92
0.91
0.9
0.89
0.88
0.87
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

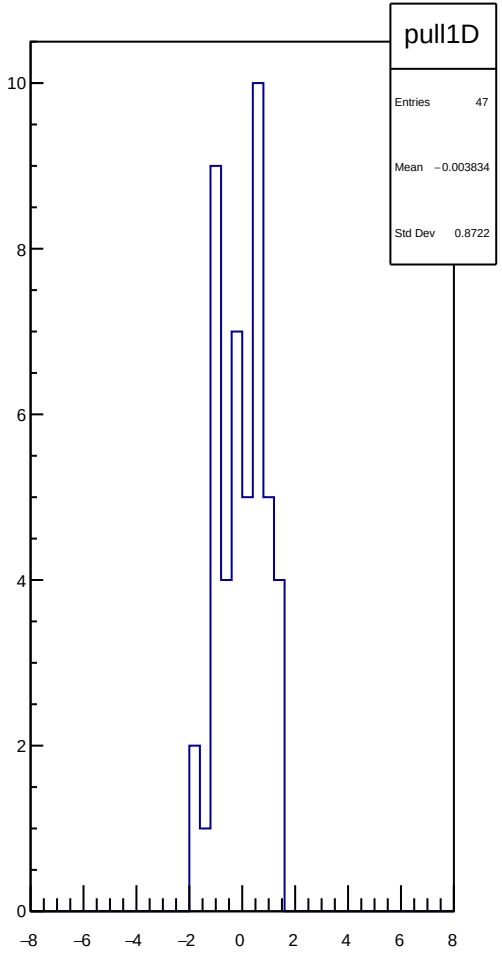

asym_bcm0l02_mean vs run
χ² / ndf 14.91 / 46
p0 −463 ± 195.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 269.5
Std Dev 243.5
1
0.5
0
−0.5
−1
pull1D
Entries 47
Mean −0.0101
Std Dev 0.5631
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

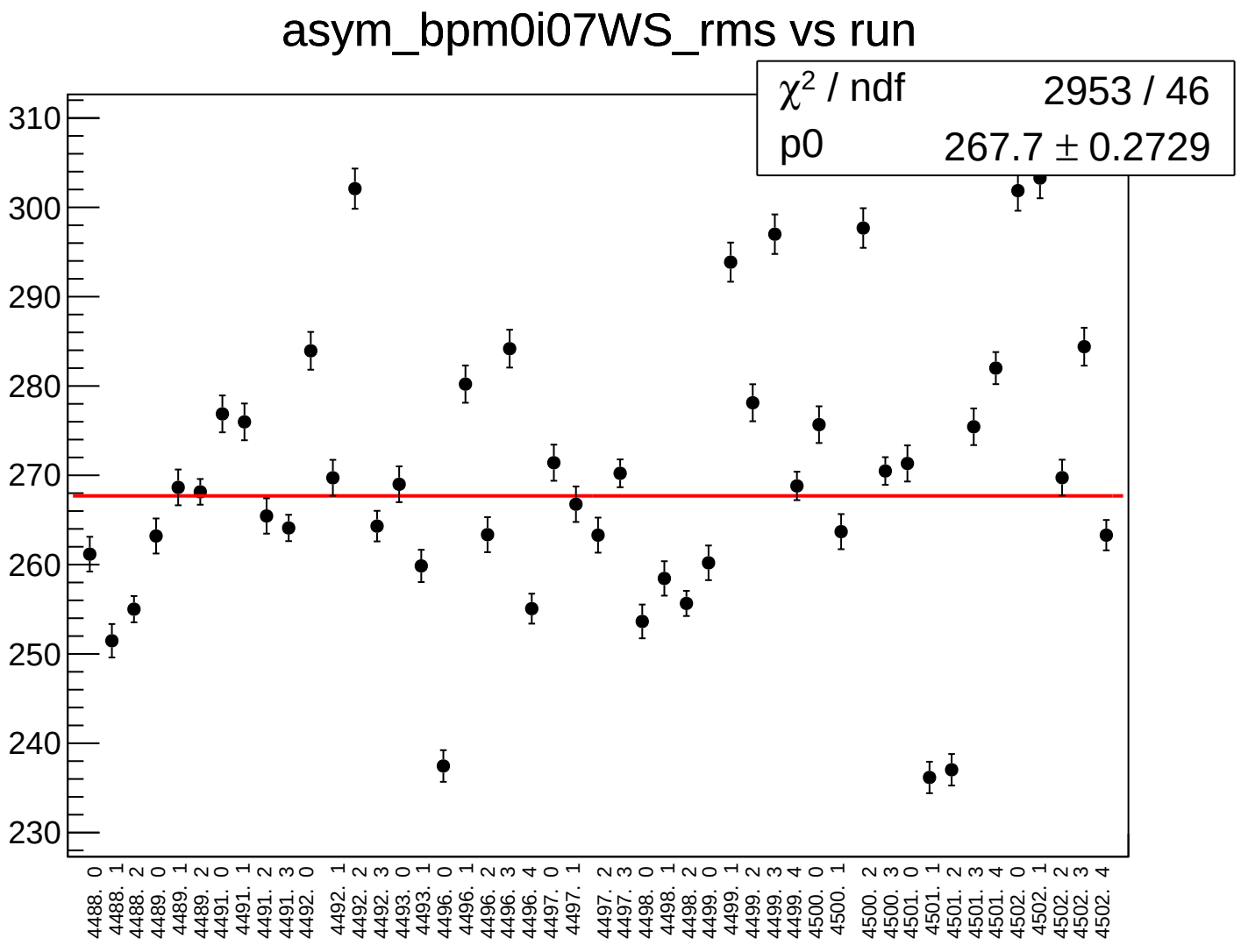

asym_bcm0l02_rms vs run
χ² / ndf 3654 / 46
p0 135.7 ± 0.1384
170
160
150
140
130
120
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

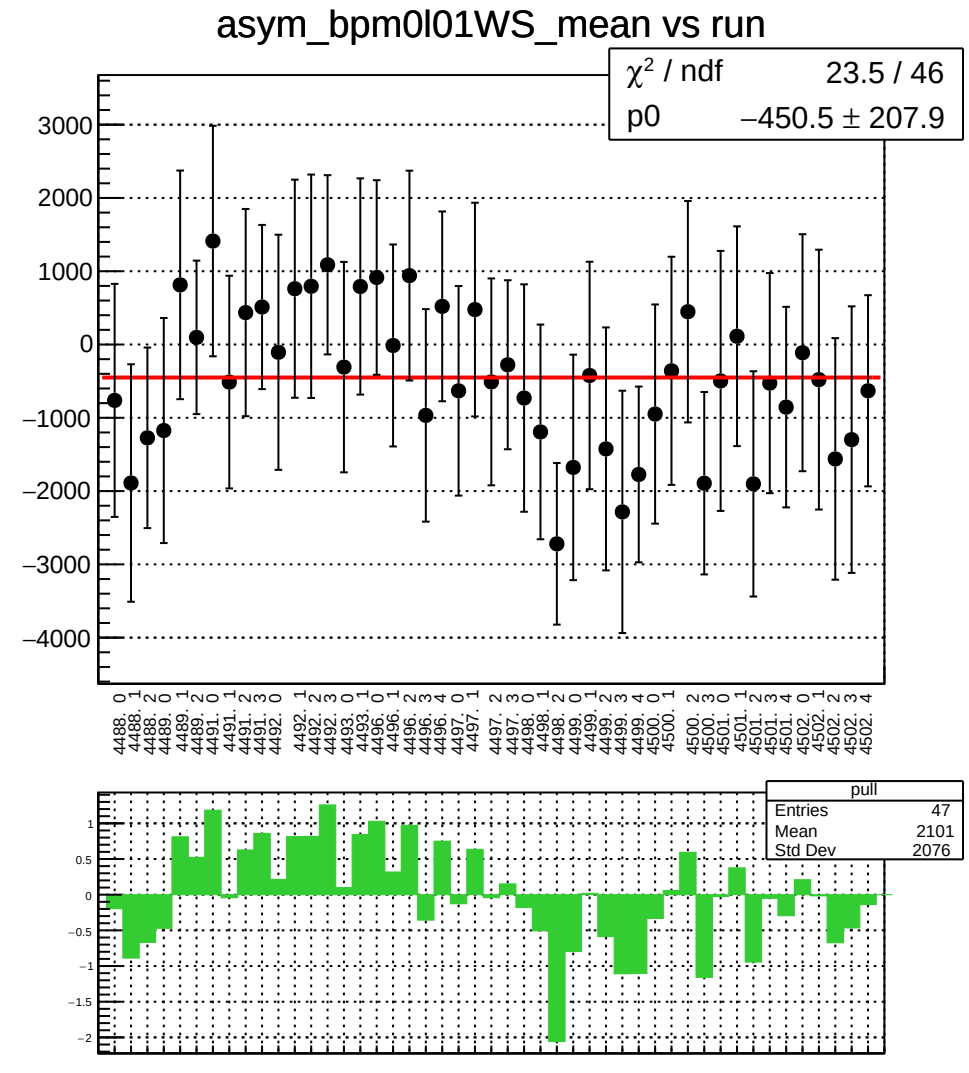

asym_bpm2i01WS_mean vs run
χ² / ndf 5607 / 46
p0 −1.105e+04 ± 145.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −121.7
Std Dev 146.3
25
20
15
10
5
0
−5
−10
−15
pull1D
Entries 47
Mean −0.001694
Std Dev 4.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

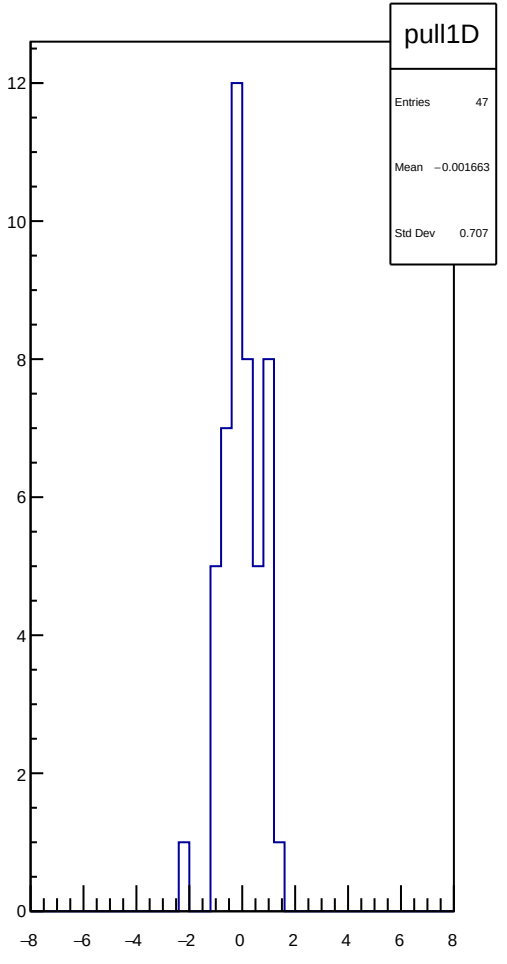

asym_bpm2i01WS_rms vs run
χ² / ndf 3.331e+04 / 46
p0 99.14 ± 0.1027
220
200
180
160
140
120
100
80
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

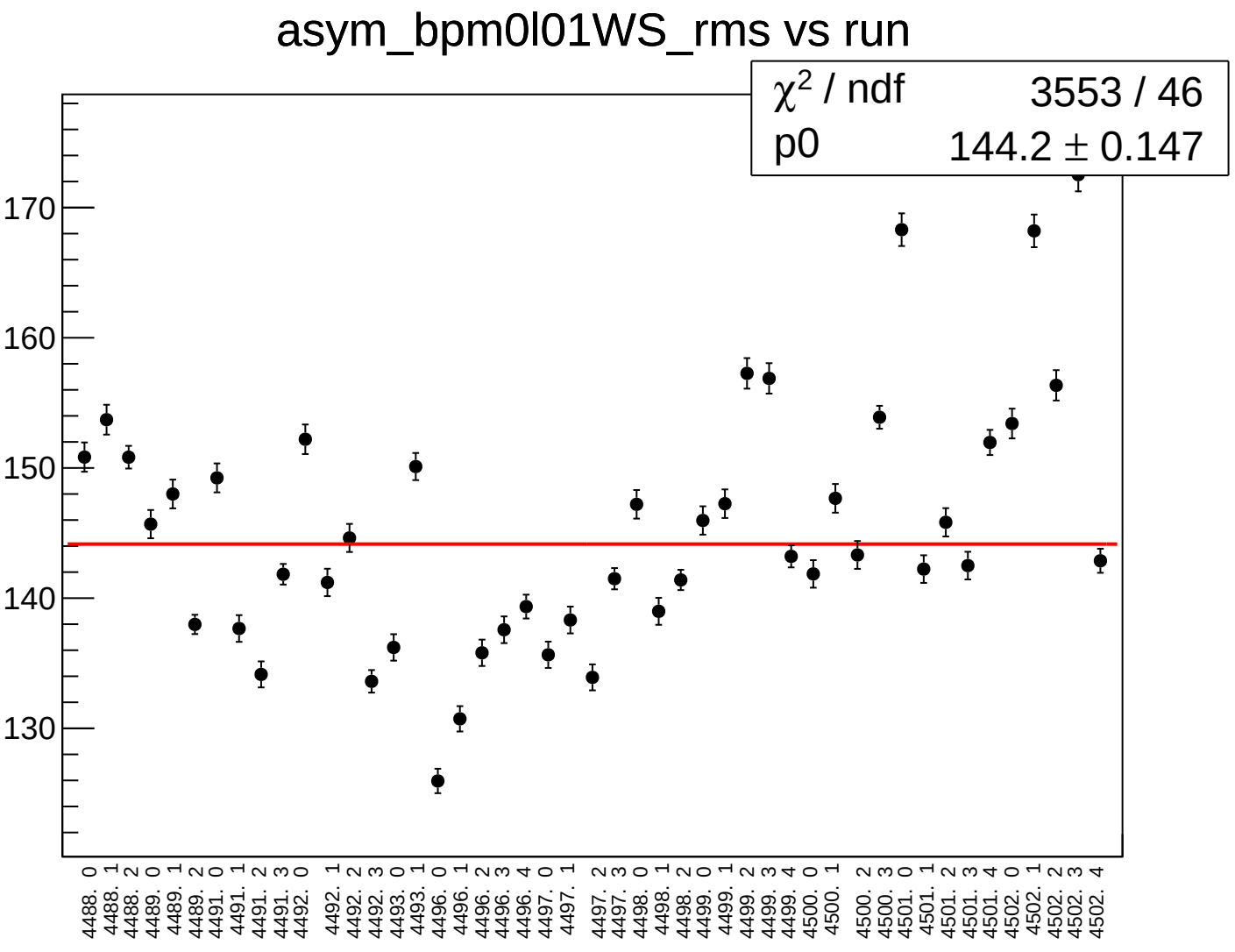

asym_bpm0i07WS_mean vs run
χ² / ndf 35.76 / 46
p0 −115.9 ± 385.9
pull
Entries 47
Mean 1051
Std Dev 1027

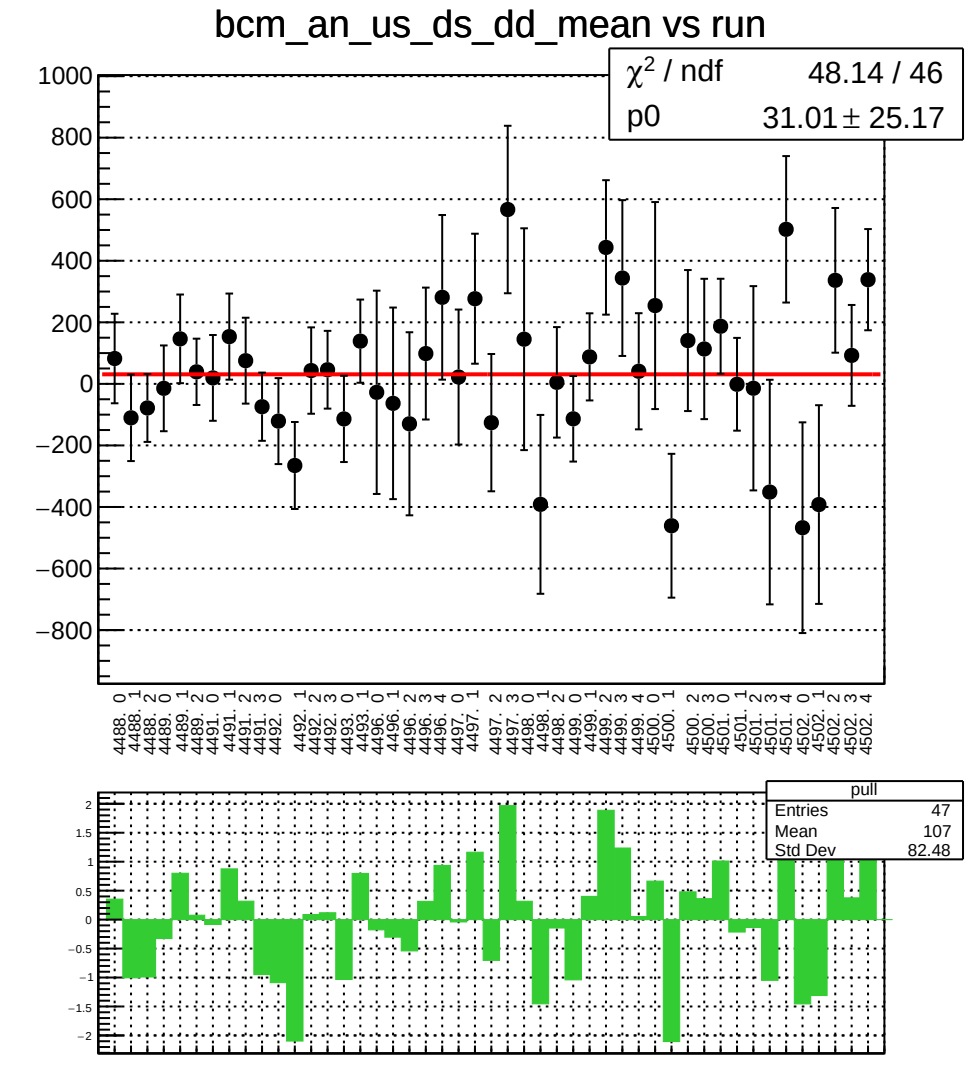

pull1D
Entries 47
Mean −0.003834
Std Dev 0.8722

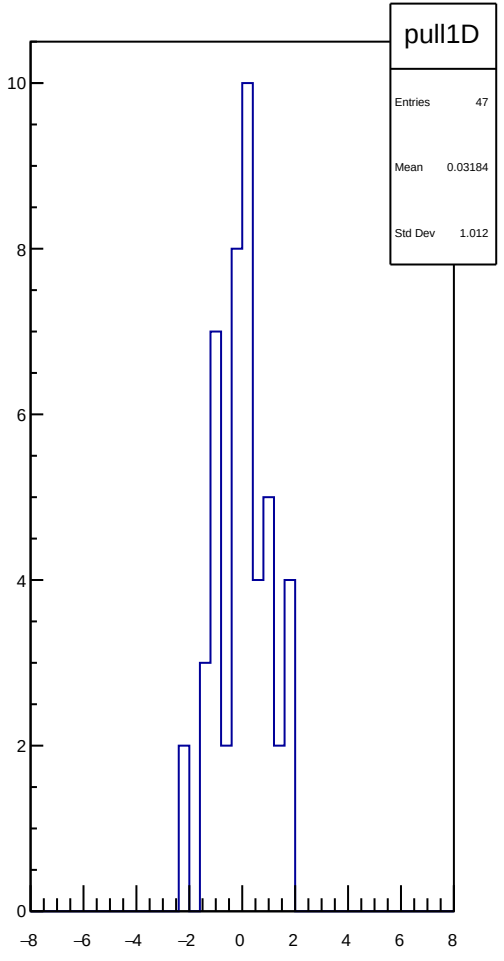

asym_bpm0i07WS_rms vs run
χ² / ndf 2953 / 46
p0 267.7 ± 0.2729
310
300
290
280
270
260
250
240
230
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

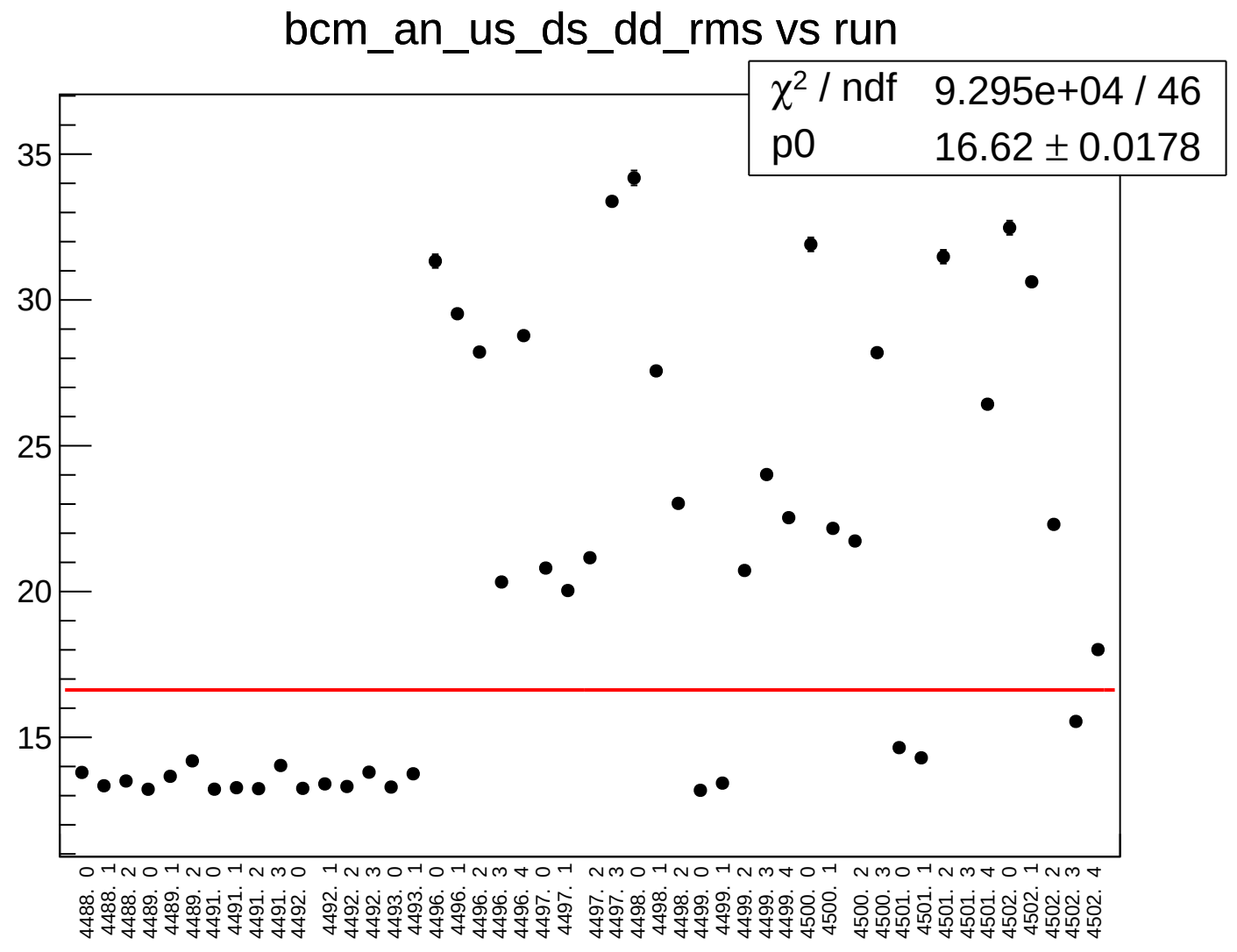

asym_bpm0l01WS_mean vs run
χ² / ndf 23.5 / 46
p0 −450.5 ± 207.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 2101
Std Dev 2076
1
0.5
0
−0.5
−1
−1.5
−2

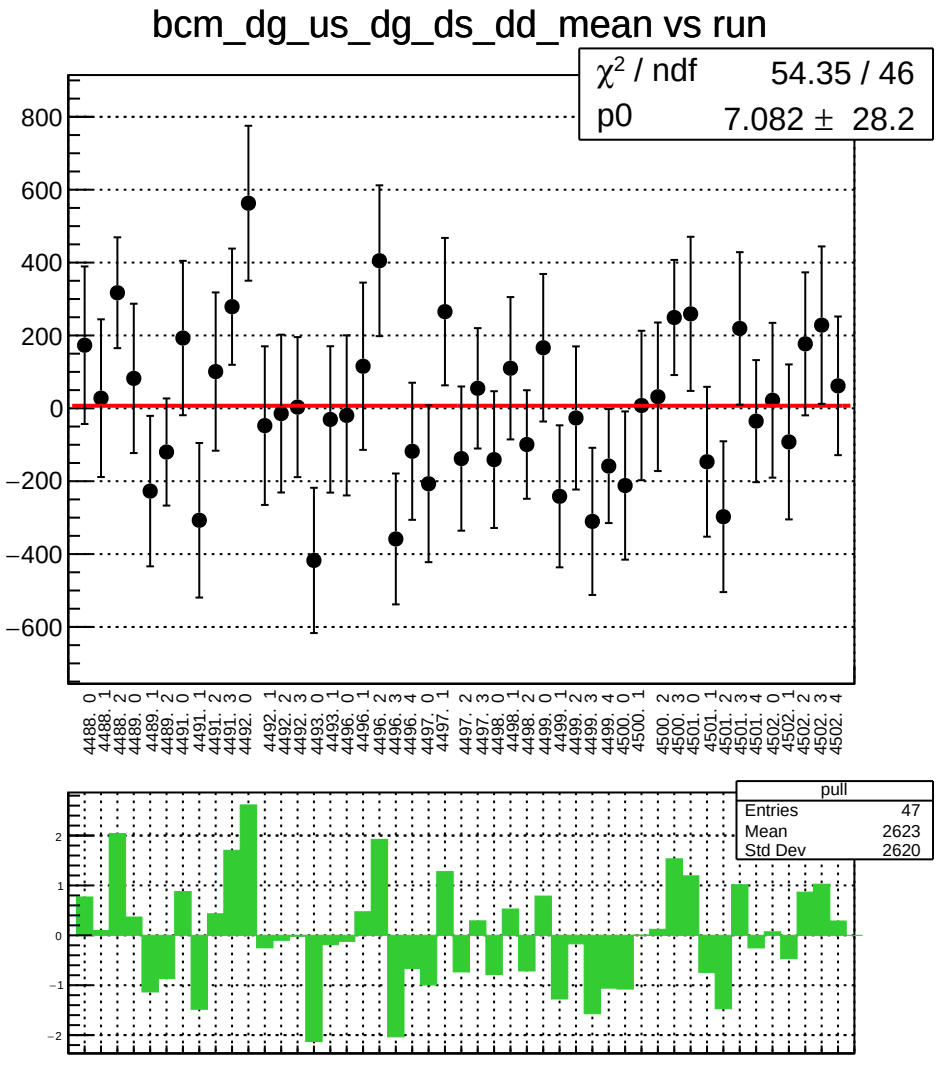

pull1D
Entries 47
Mean −0.001663
Std Dev 0.707
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

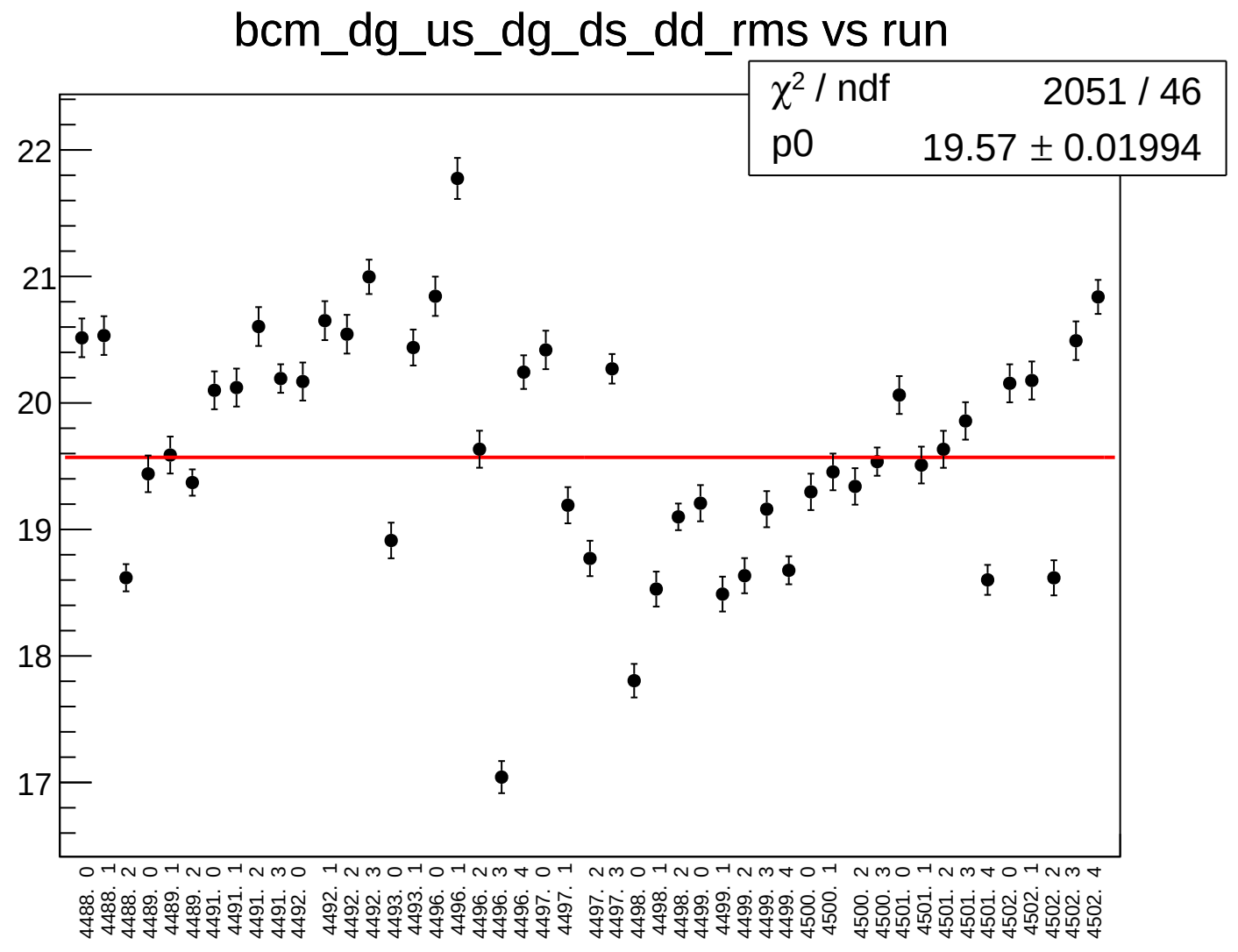

asym_bpm0l01WS_rms vs run
χ² / ndf 3553 / 46
p0 144.2 ± 0.147
170
160
150
140
130
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

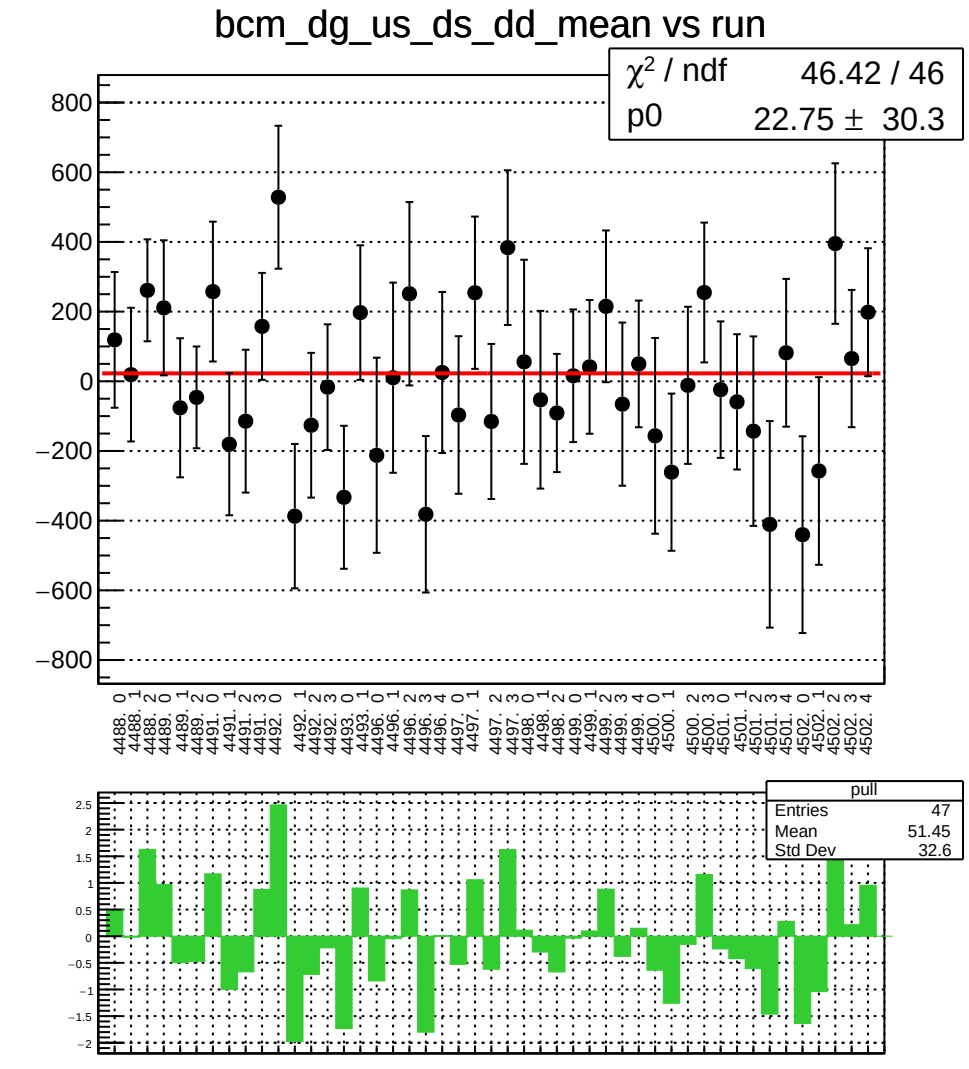

bcm_an_us_ds_dd_mean vs run
χ² / ndf 48.14 / 46
p0 31.01 ± 25.17
pull
Entries 47
Mean 107
Std Dev 82.48

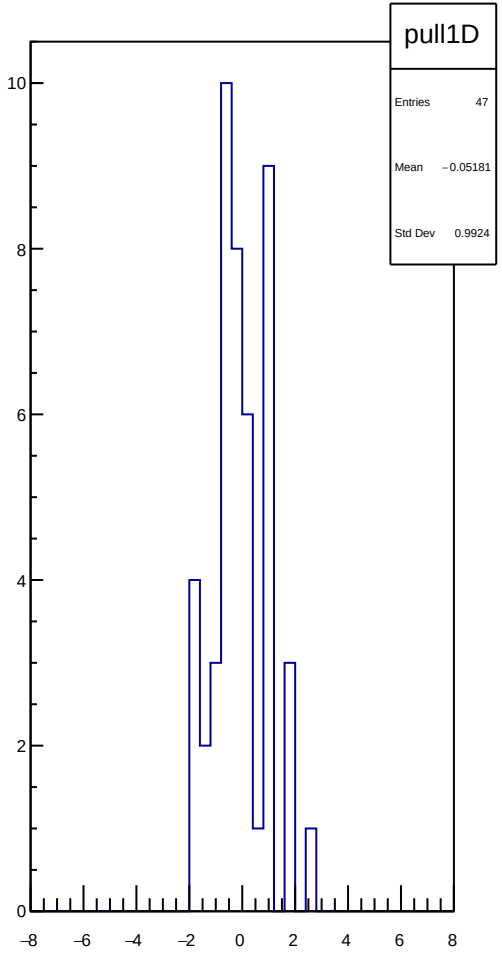

pull1D
Entries 47
Mean 0.03184
Std Dev 1.012

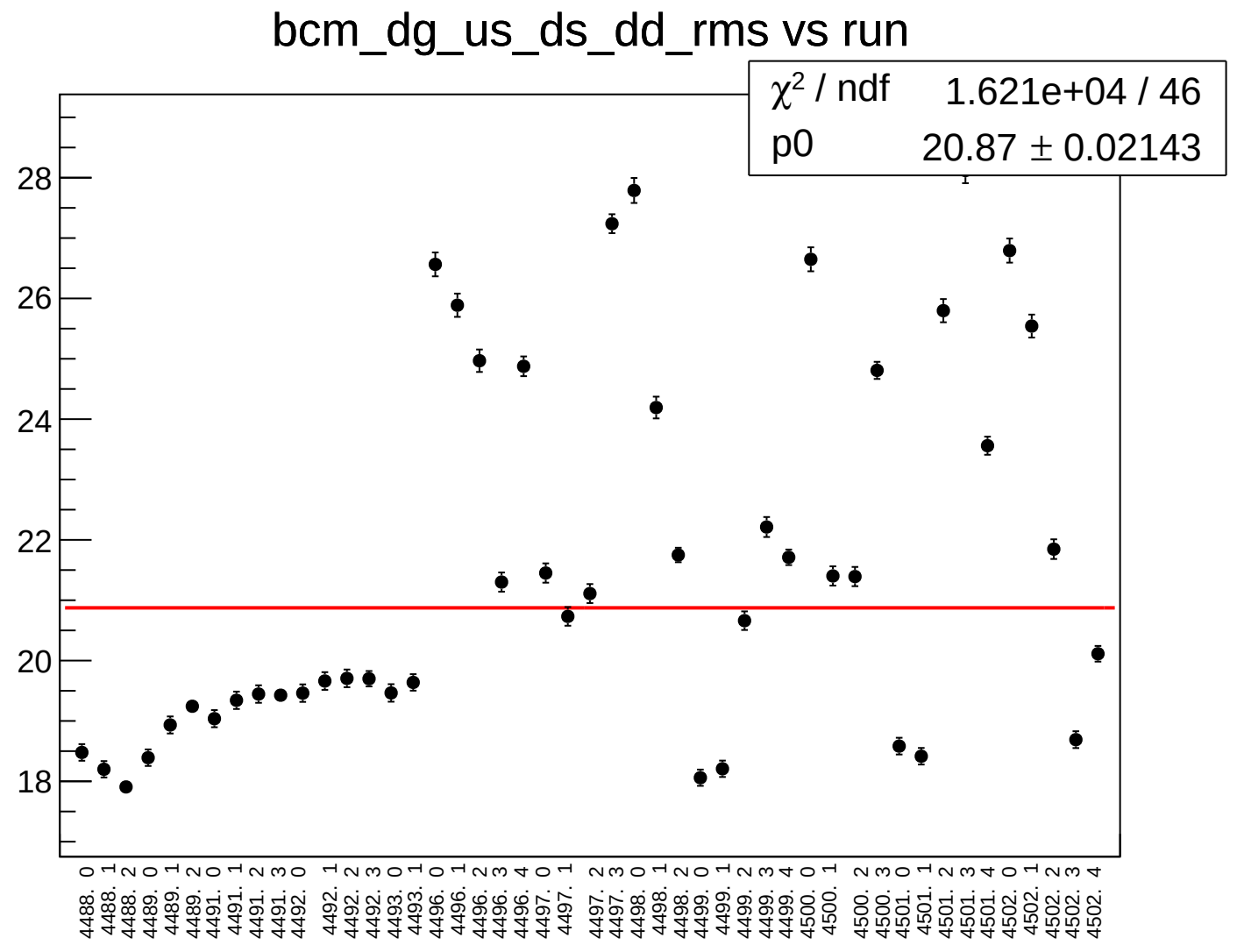

bcm_an_us_ds_dd_rms vs run
χ² / ndf 9.295e+04 / 46
p0 16.62 ± 0.0178
35
30
25
20
15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

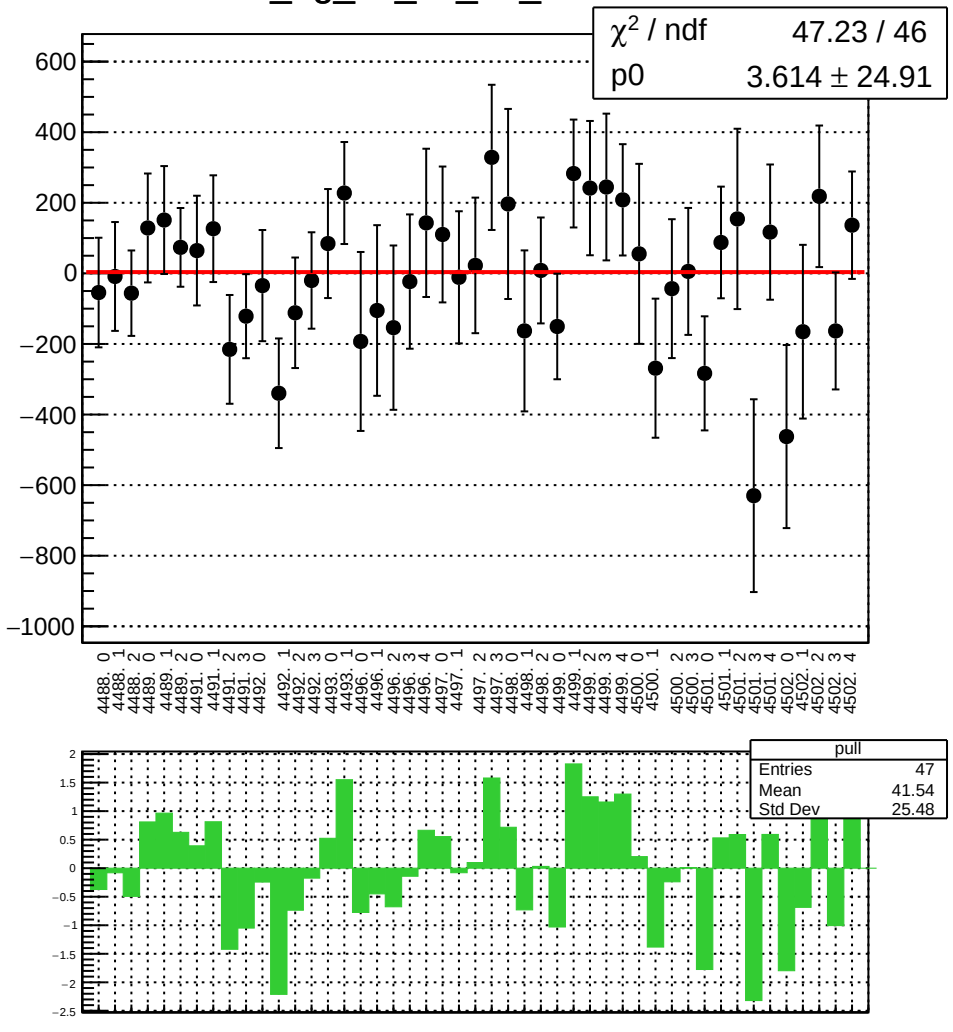

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 54.35 / 46
p0 7.082 ± 28.2
800
600
400
200
0
−200
−400
−600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 2623
Std Dev 2620
2
1
0
−1
−2
pull1D
Entries 47
Mean −0.000402
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

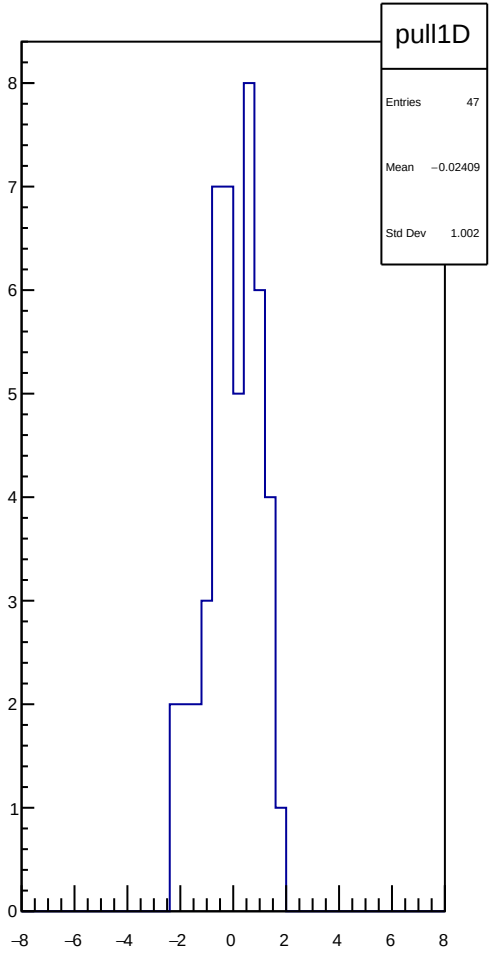

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2051 / 46
p0 19.57 ± 0.01994
22
21
20
19
18
17
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

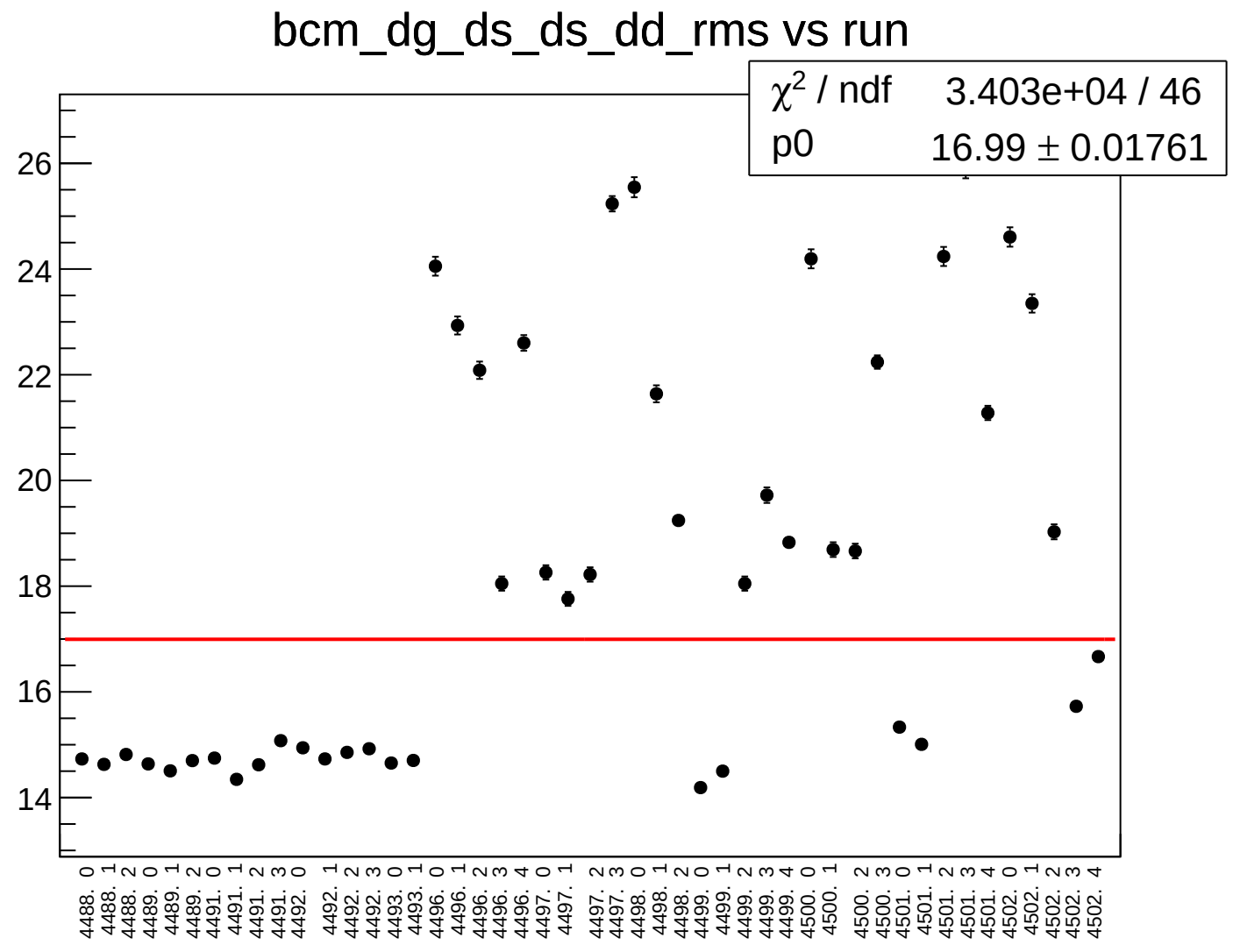

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 46.42 / 46
p0 22.75 ± 30.3
pull
Entries 47
Mean 51.45
Std Dev 32.6

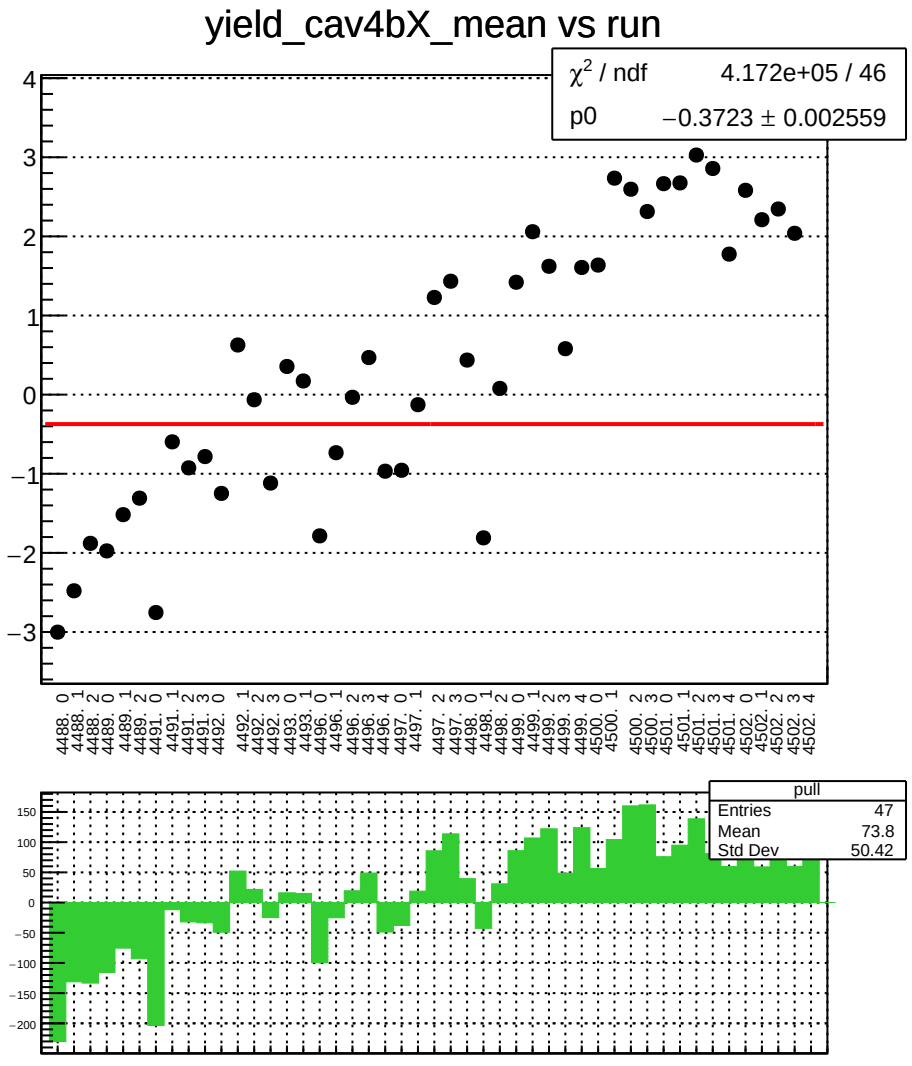

pull1D
Entries 47
Mean −0.05181
Std Dev 0.9924

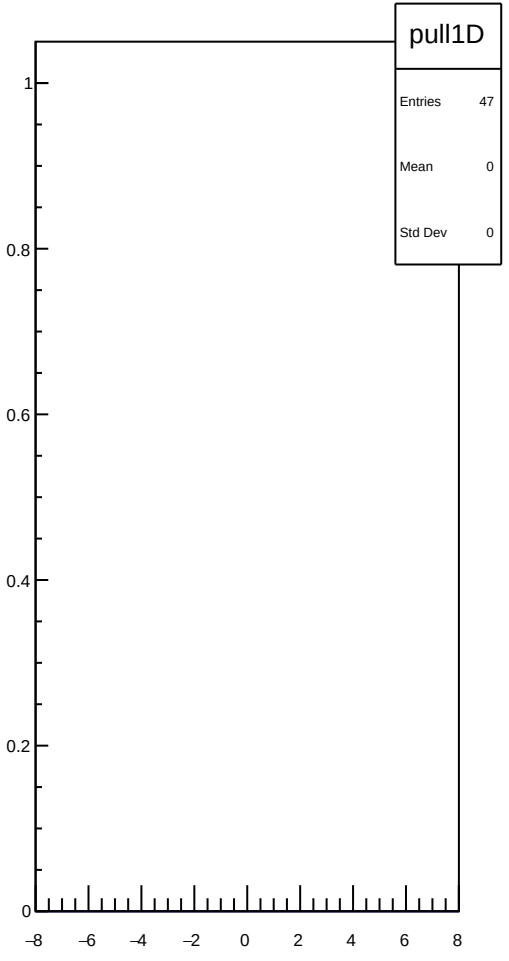

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 1.621e+04 / 46
p0 20.87 ± 0.02143
28
26
24
22
20
18
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

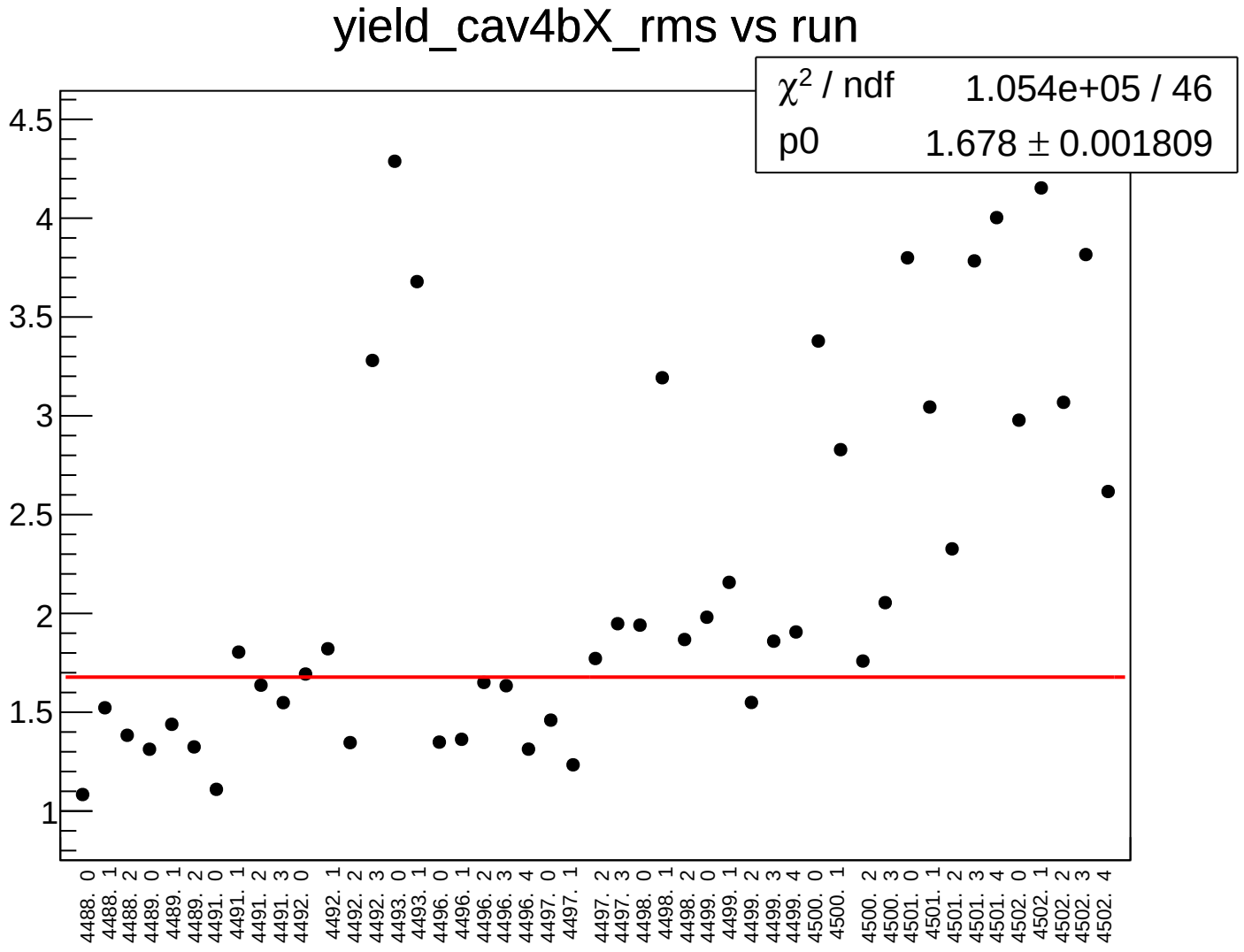

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 47.23 / 46
p0 3.614 ± 24.91
pull
Entries 47
Mean 41.54
Std Dev 25.48

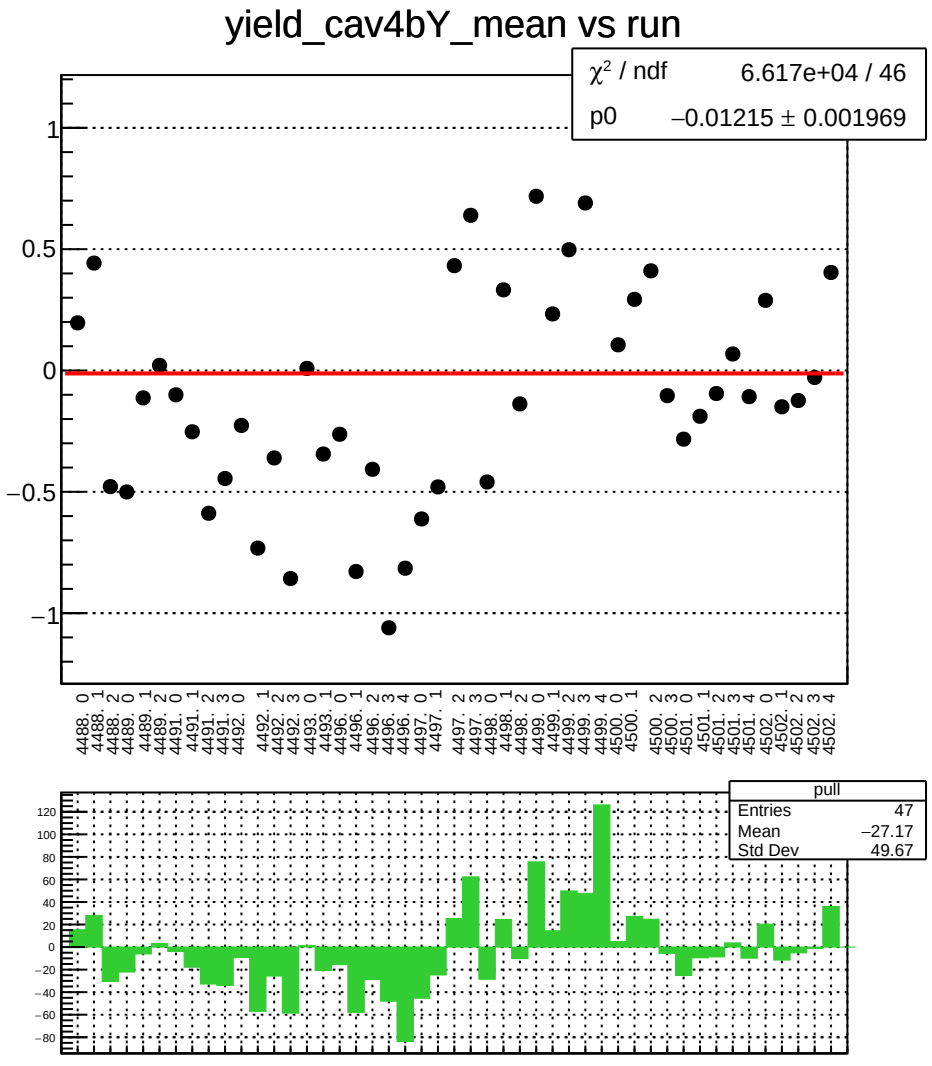

pull1D
Entries 47
Mean −0.02409
Std Dev 1.002

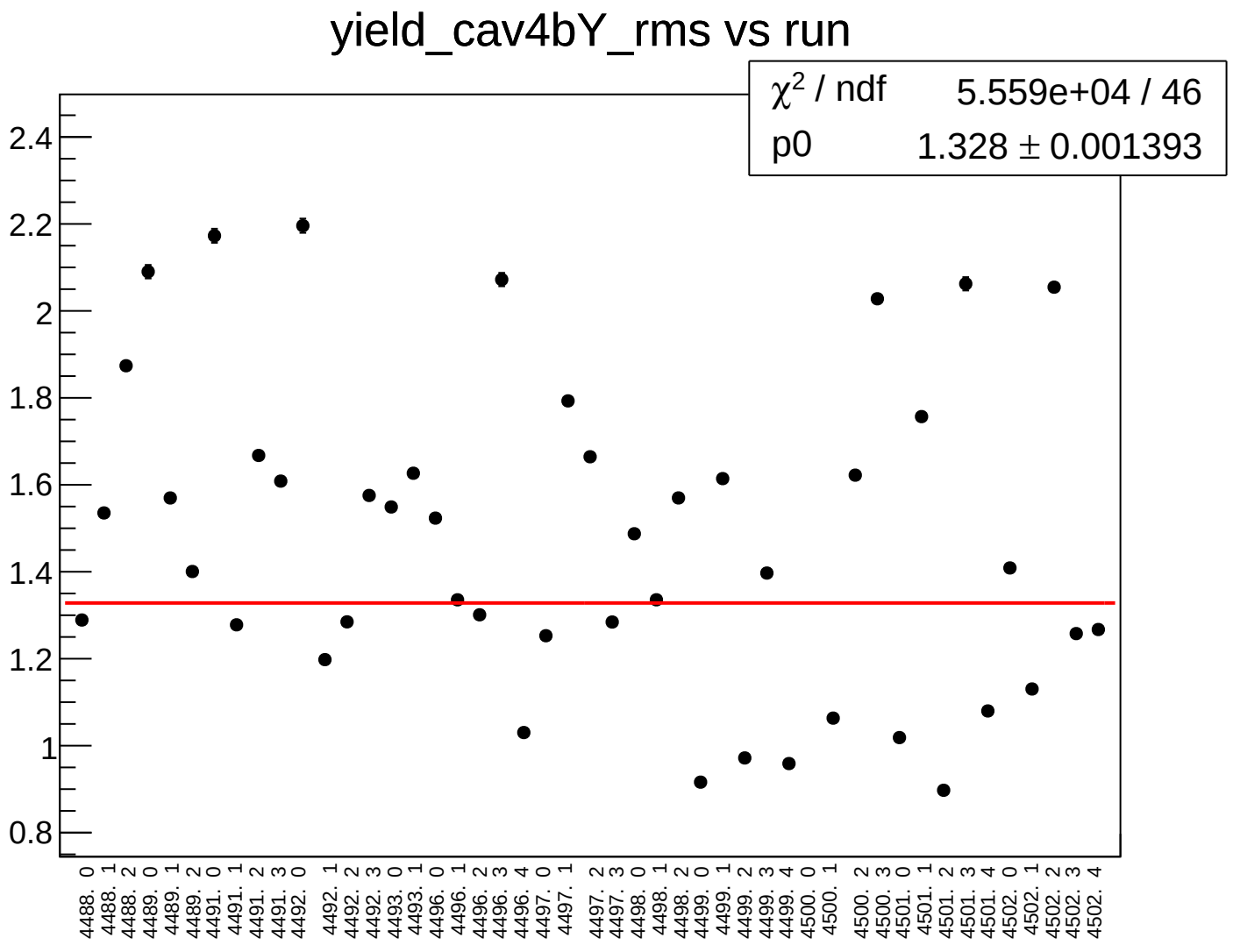

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 3.403e+04 / 46
p0 16.99 ± 0.01761
26
24
22
20
18
16
14
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

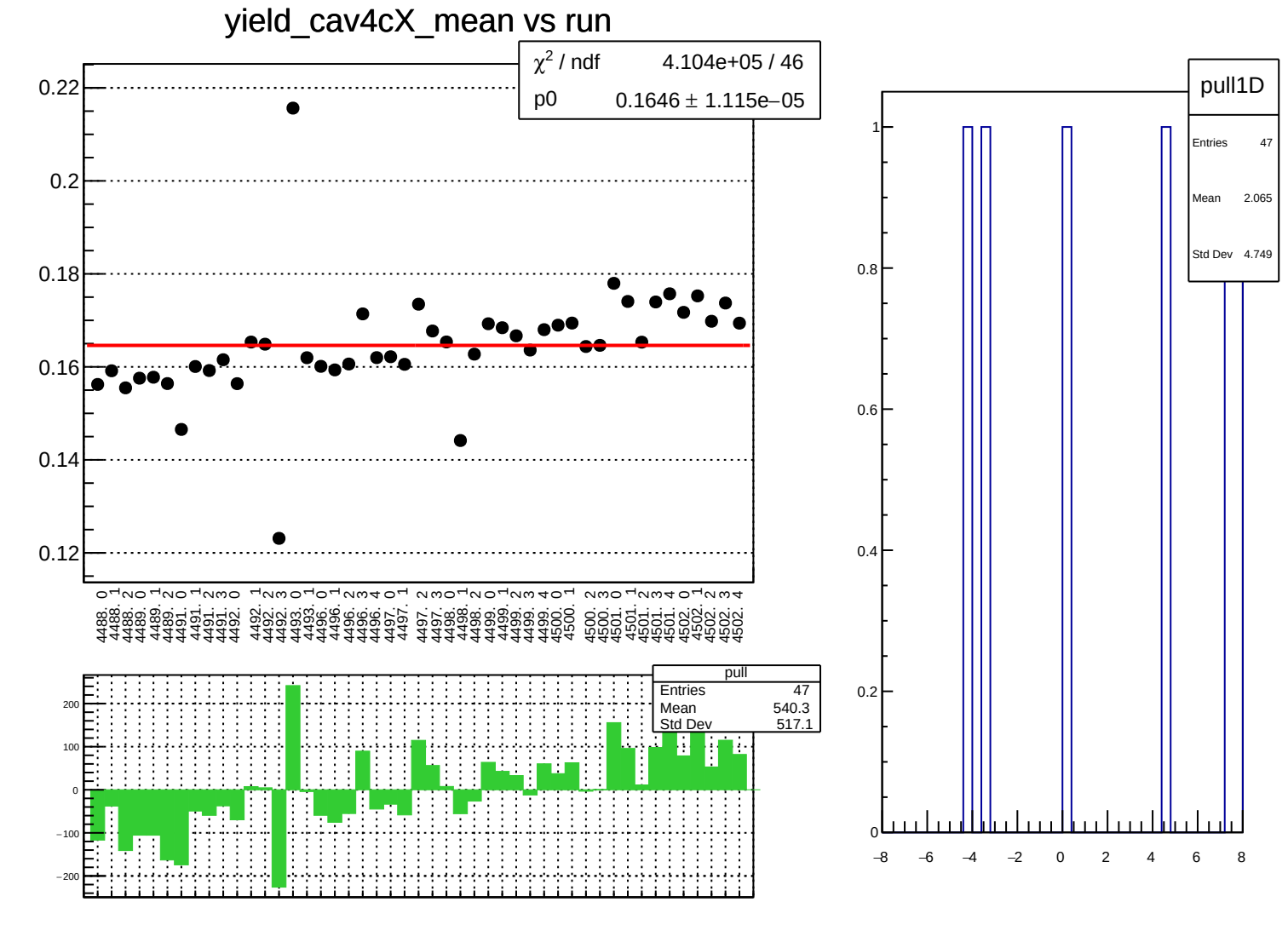

yield_cav4bX_mean vs run
χ² / ndf 4.172e+05 / 46
p0 −0.3723 ± 0.002559
pull
Entries 47
Mean 73.8
Std Dev 50.42

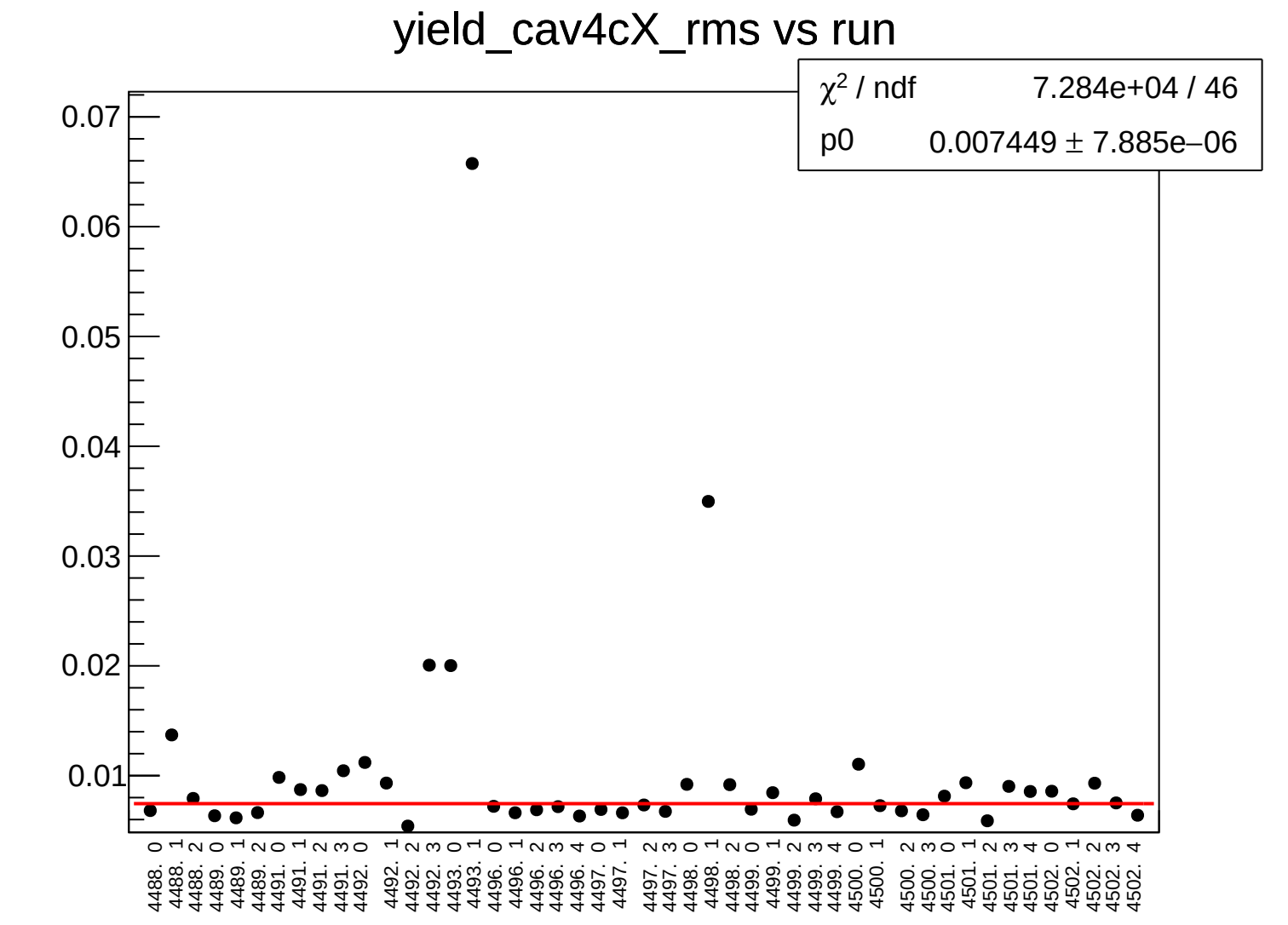

pull1D
Entries 47
Mean 0
Std Dev 0

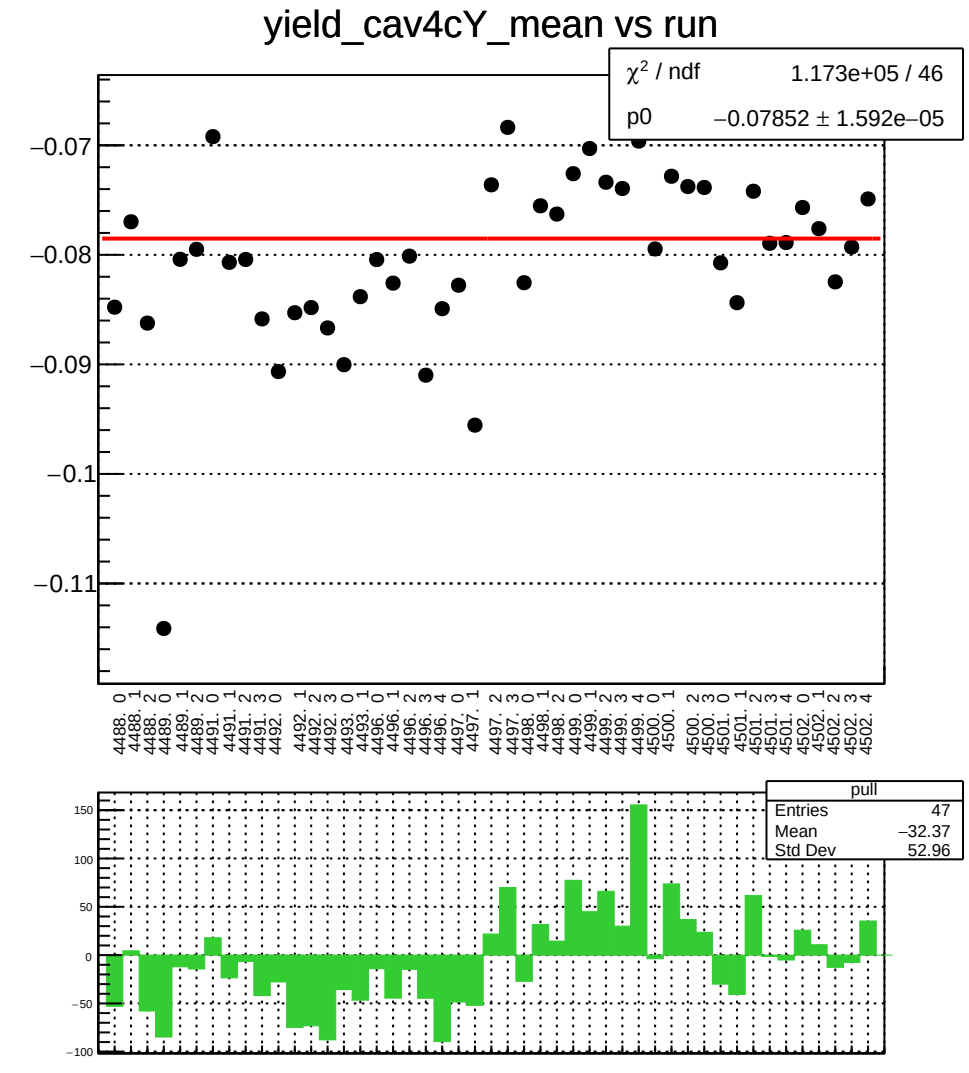

yield_cav4bX_rms vs run
χ^2 / ndf 1.054e+05 / 46
p0 1.678 ± 0.001809
4.5
4
3.5
3
2.5
2
1.5
1
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

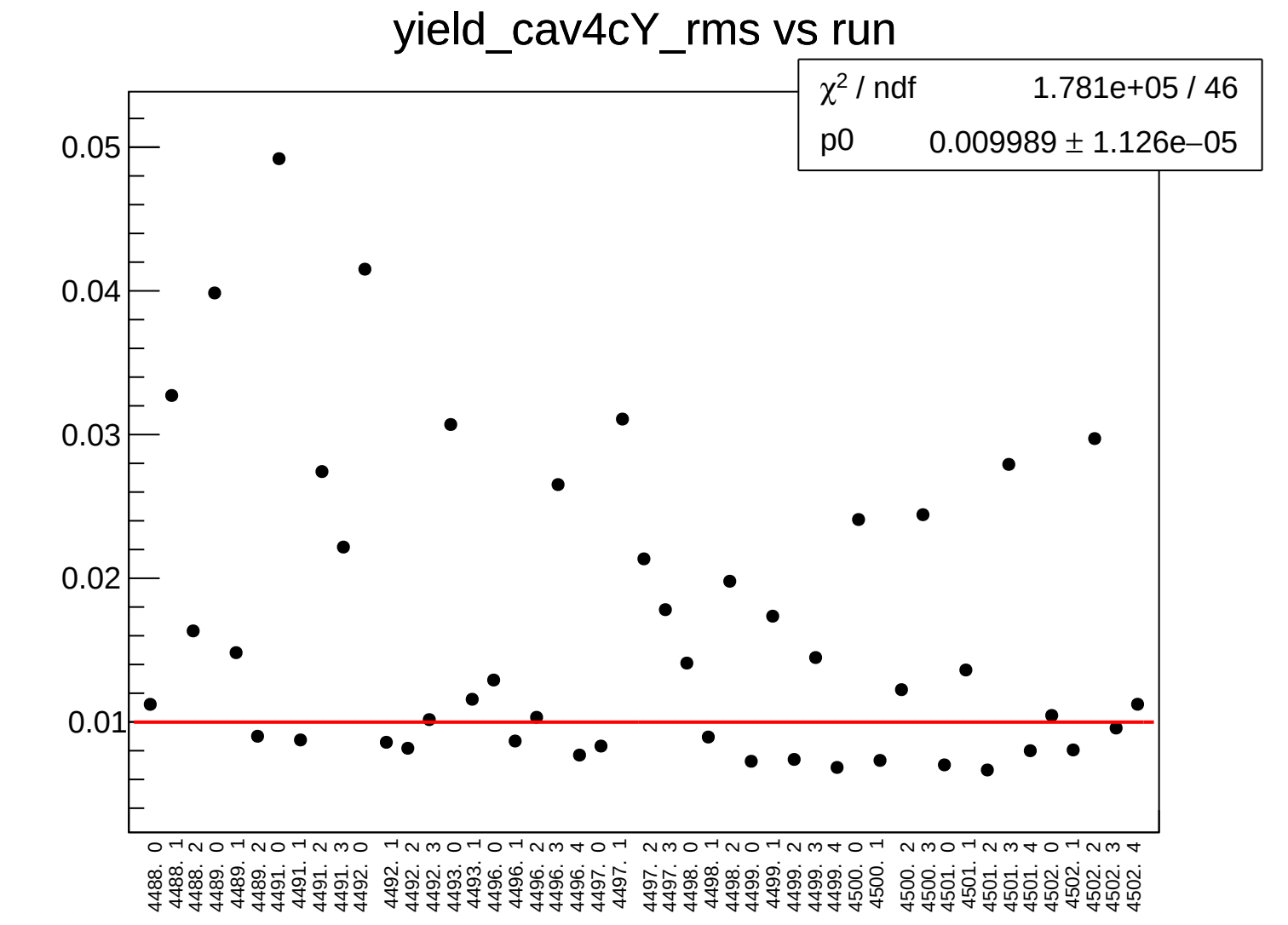

yield_cav4bY_mean vs run
χ² / ndf 6.617e+04 / 46
p0 −0.01215 ± 0.001969
pull
Entries 47
Mean −27.17
Std Dev 49.67
pull1D
Entries 47
Mean −0.9999
Std Dev 4.084

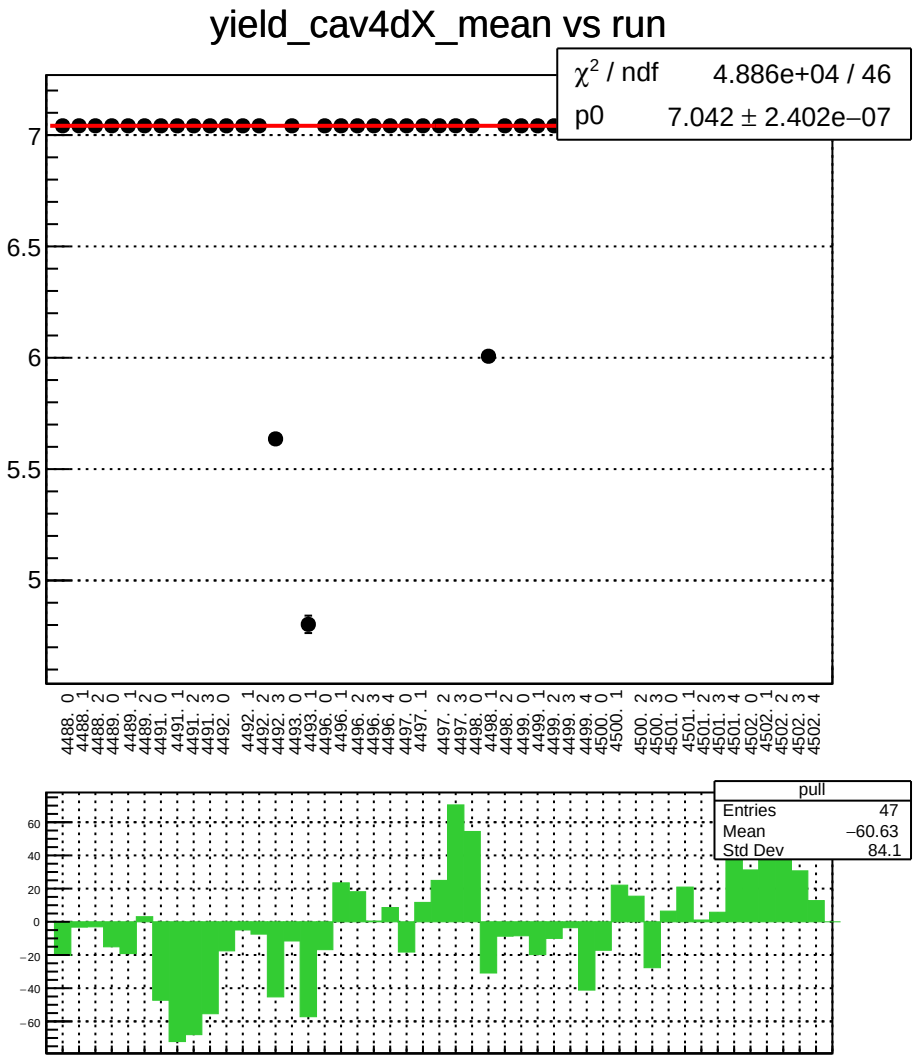

yield_cav4bY_rms vs run
χ² / ndf 5.559e+04 / 46
p0 1.328 ± 0.001393
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

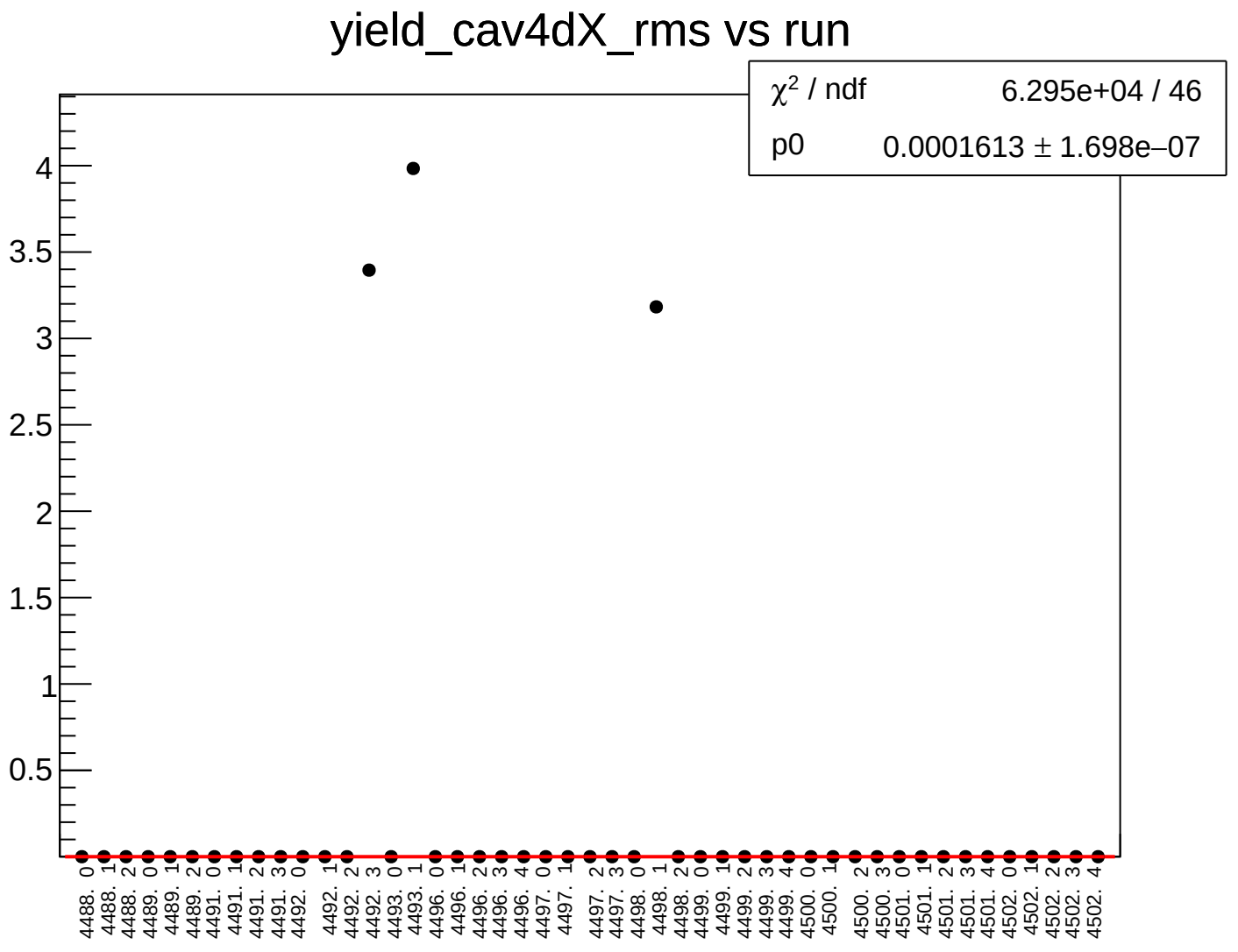

yield_cav4cX_mean vs run
χ² / ndf 4.104e+05 / 46
p0 0.1646 ± 1.115e−05
0.22
0.2
0.18
0.16
0.14
0.12
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 540.3
Std Dev 517.1
200
100
0
−100
−200
pull1D
Entries 47
Mean 2.065
Std Dev 4.749
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

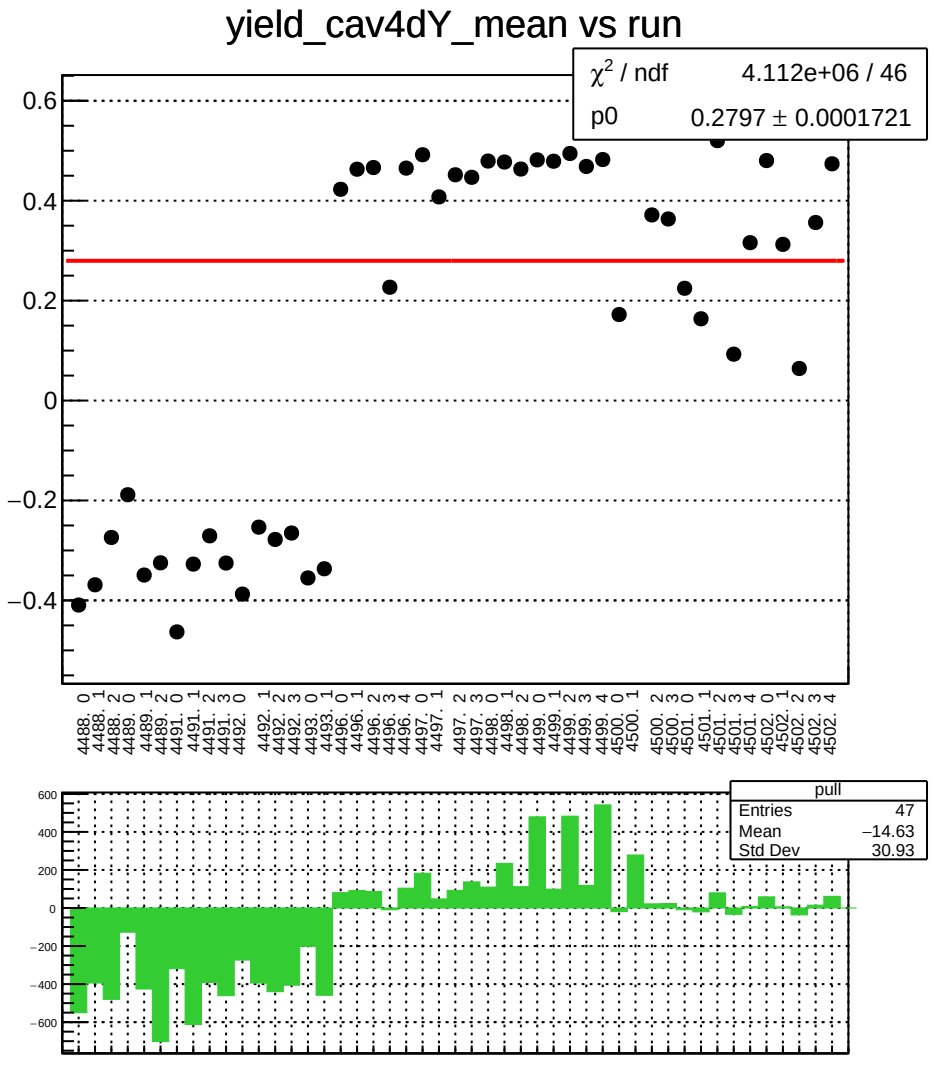

yield_cav4cX_rms vs run
χ² / ndf 7.284e+04 / 46
p0 0.007449 ± 7.885e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

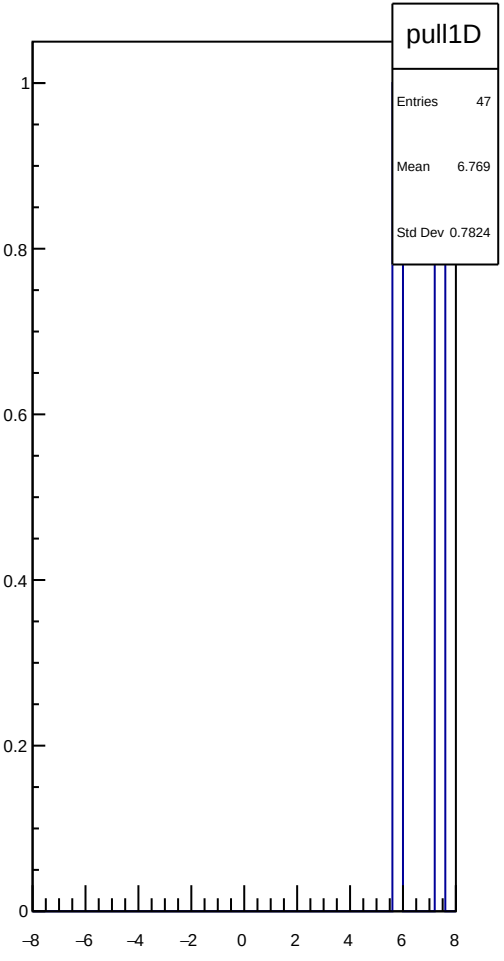

yield_cav4cY_mean vs run
χ² / ndf 1.173e+05 / 46
p0 −0.07852 ± 1.592e−05
−0.07
−0.08
−0.09
−0.1
−0.11
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −32.37
Std Dev 52.96
150
100
50
0
−50
−100
pull1D
Entries 47
Mean −3.33
Std Dev 4.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

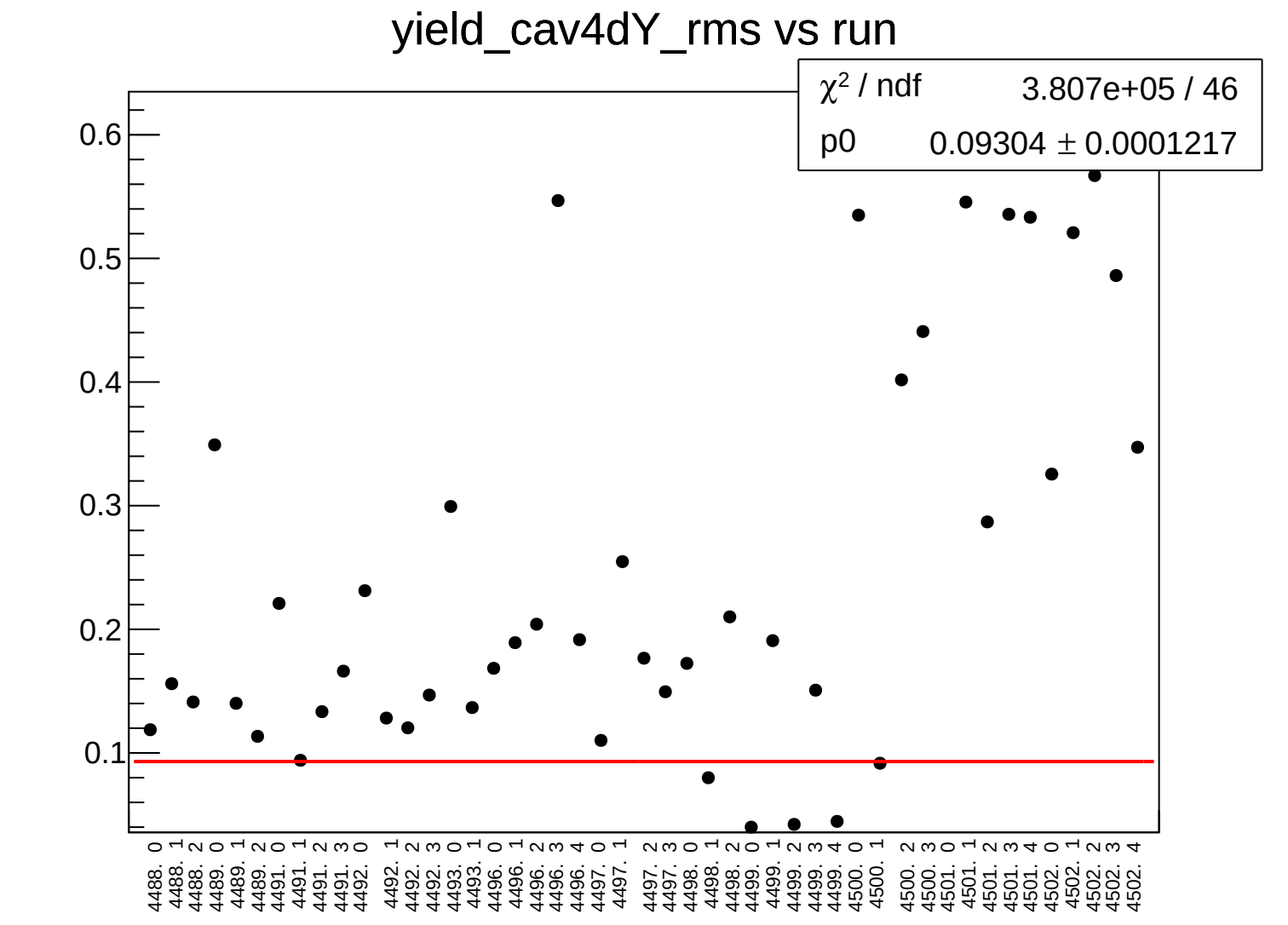

yield_cav4cY_rms vs run
χ² / ndf 1.781e+05 / 46
p0 0.009989 ± 1.126e−05
0.05
0.04
0.03
0.02
0.01
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

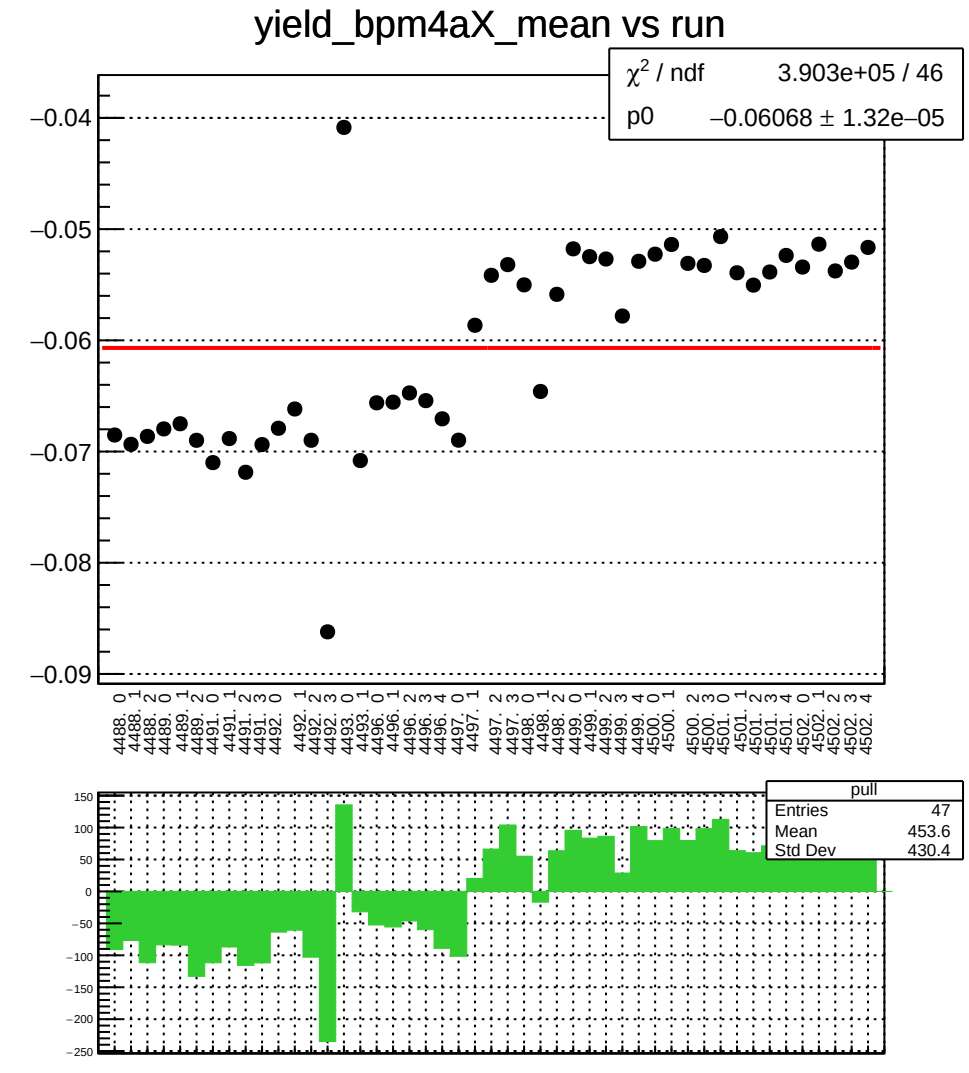

yield_cav4dX_mean vs run
χ² / ndf 4.886e+04 / 46
p0 7.042 ± 2.402e−07
7
6.5
6
5.5
5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −60.63
Std Dev 84.1
60
40
20
0
−20
−40
−60
pull1D
Entries 47
Mean −0.5326
Std Dev 4.396
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

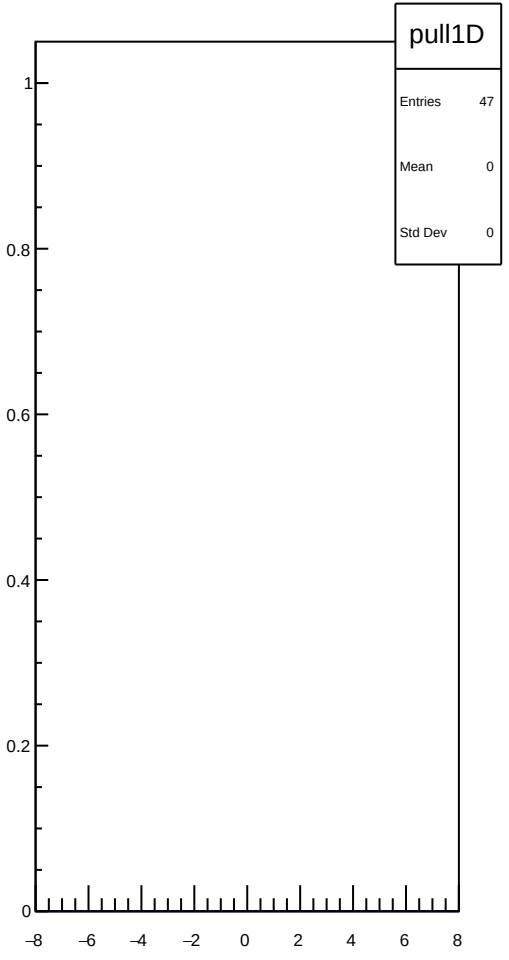

yield_cav4dX_rms vs run
χ² / ndf 6.295e+04 / 46
p0 0.0001613 ± 1.698e−07
4
3.5
3
2.5
2
1.5
1
0.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

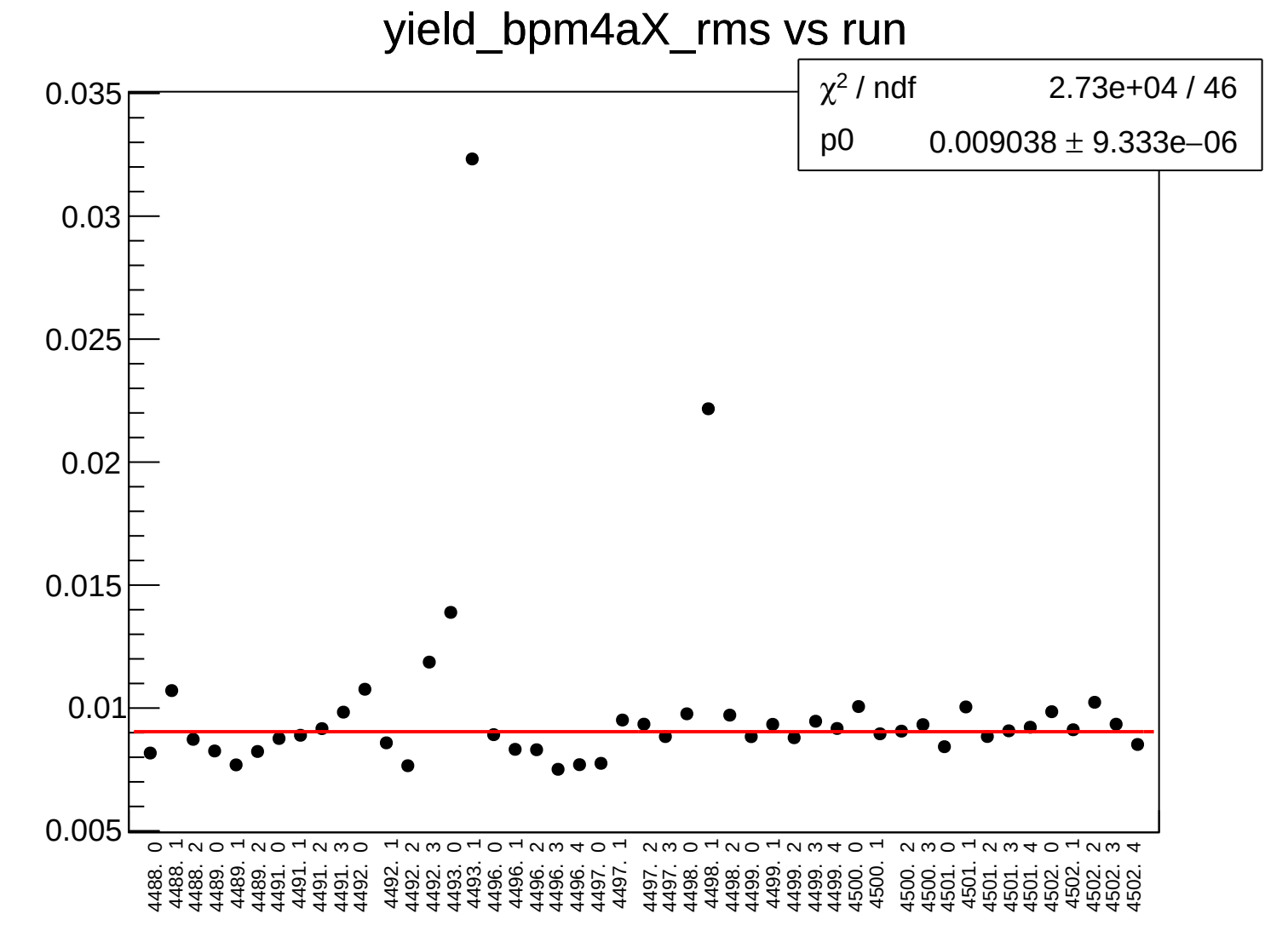

yield_cav4dY_mean vs run
χ² / ndf 4.112e+06 / 46
p0 0.2797 ± 0.0001721
0.6
0.4
0.2
0
−0.2
−0.4
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −14.63
Std Dev 30.93
600
400
200
0
−200
−400
−600

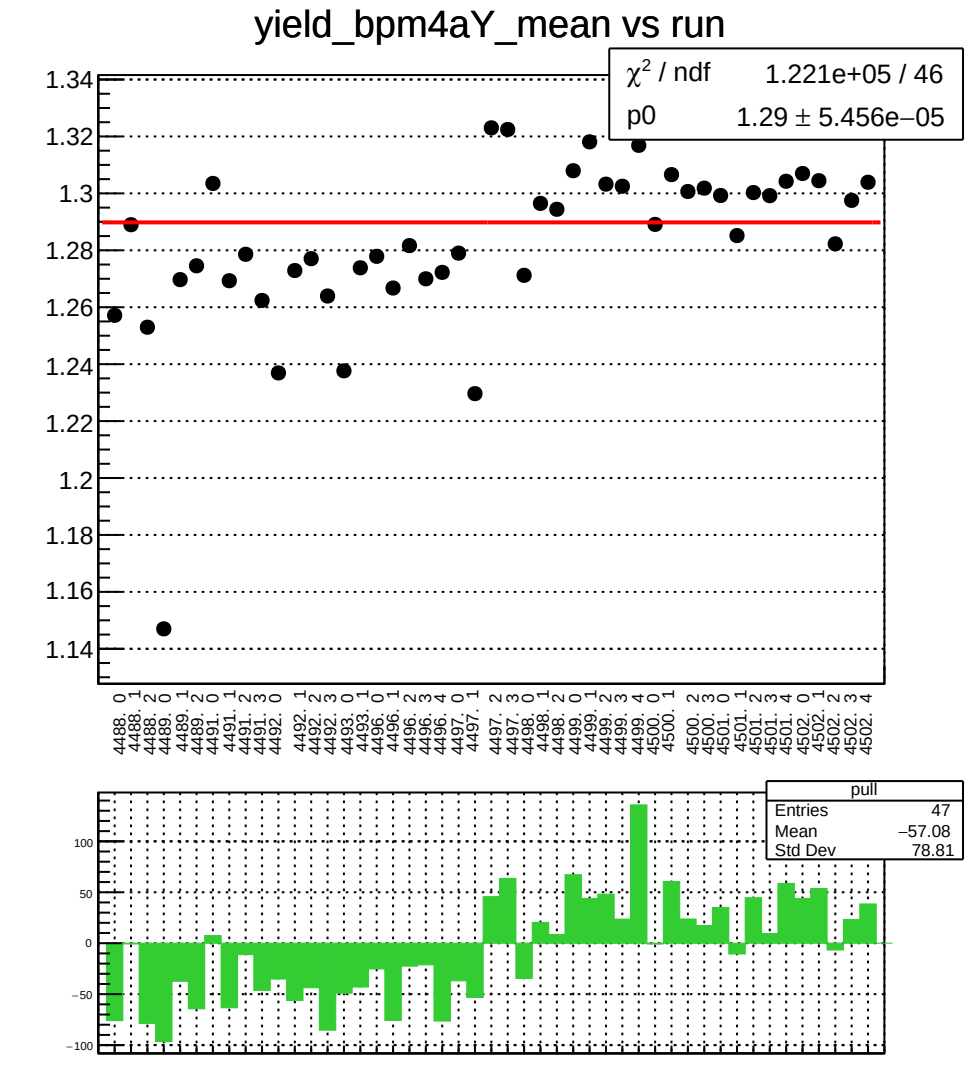

pull1D
Entries 47
Mean 6.769
Std Dev 0.7824
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

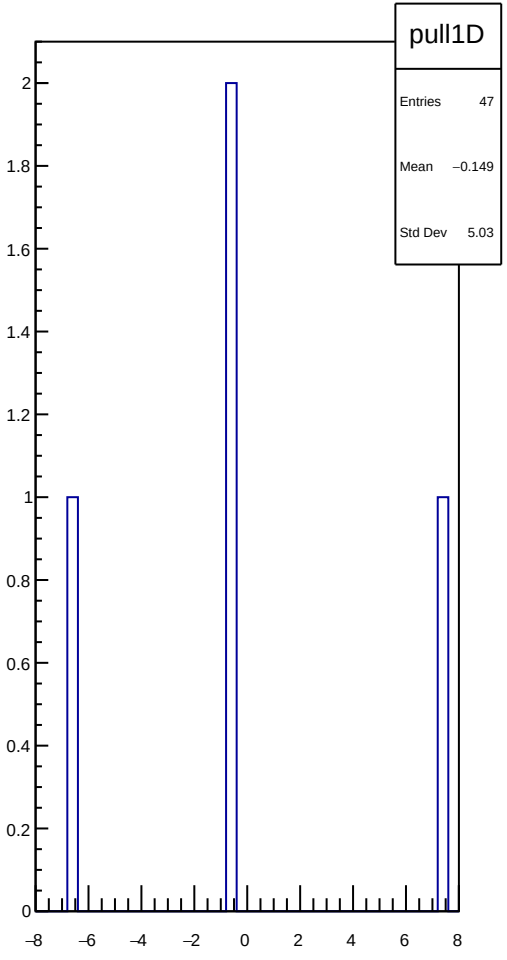

yield_cav4dY_rms vs run
χ² / ndf 3.807e+05 / 46
p0 0.09304 ± 0.0001217
0.6
0.5
0.4
0.3
0.2
0.1
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

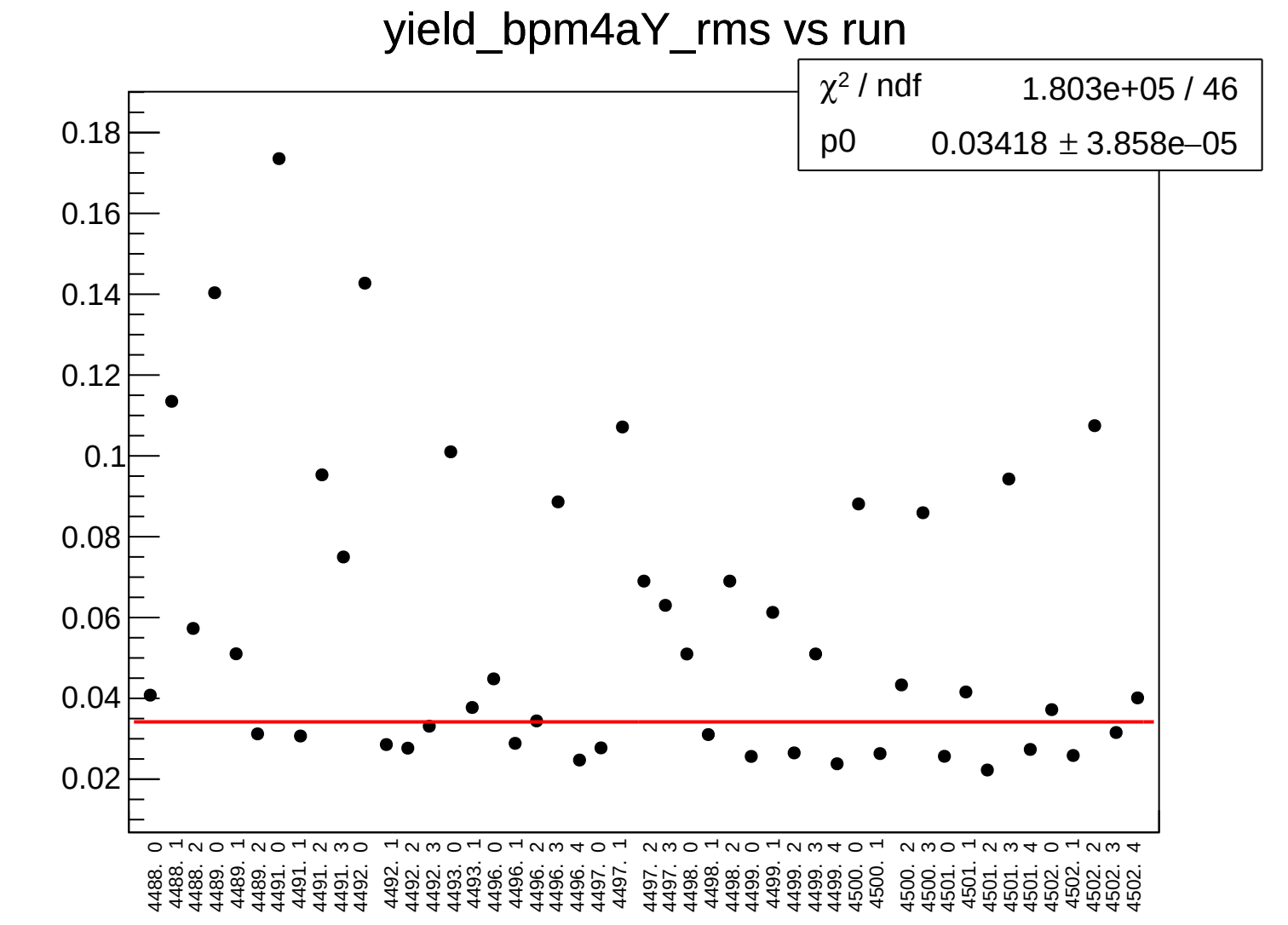

yield_bpm4aX_mean vs run
χ² / ndf 3.903e+05 / 46
p0 −0.06068 ± 1.32e−05
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 453.6
Std Dev 430.4
150
100
50
0
−50
−100
−150
−200
−250

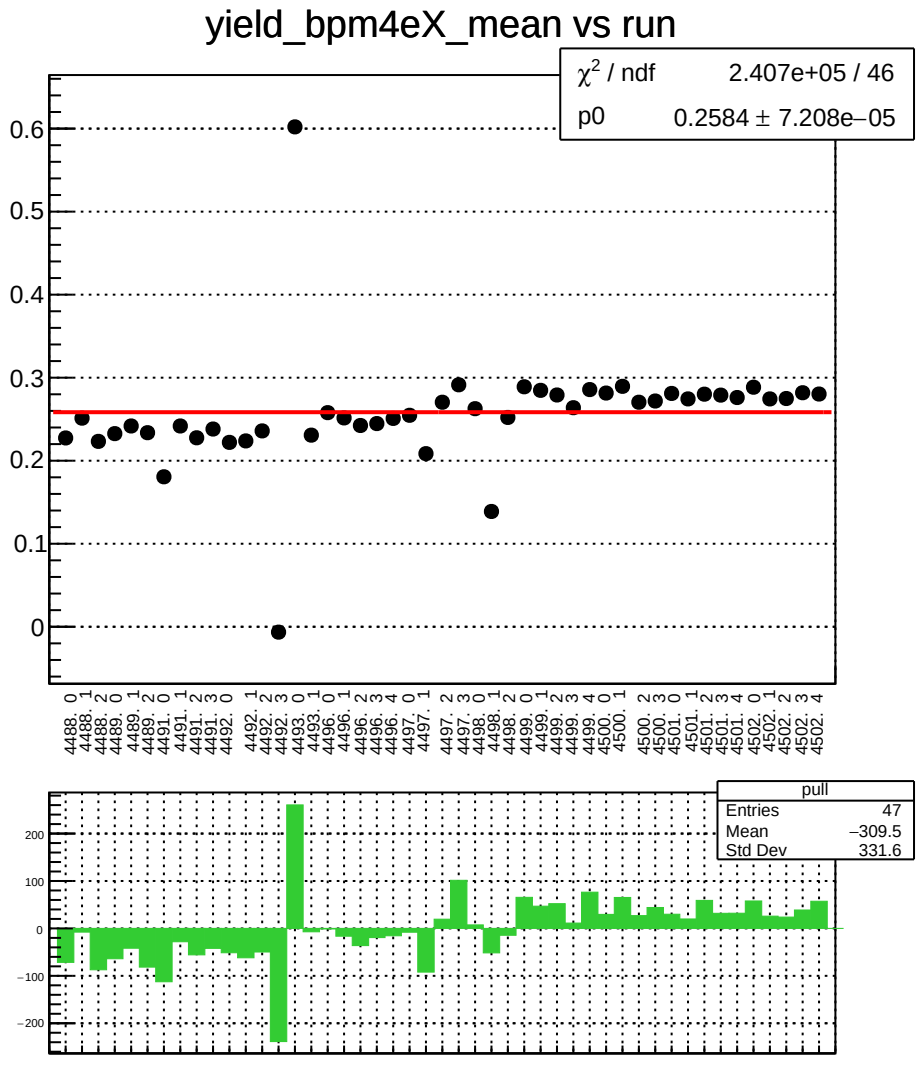

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

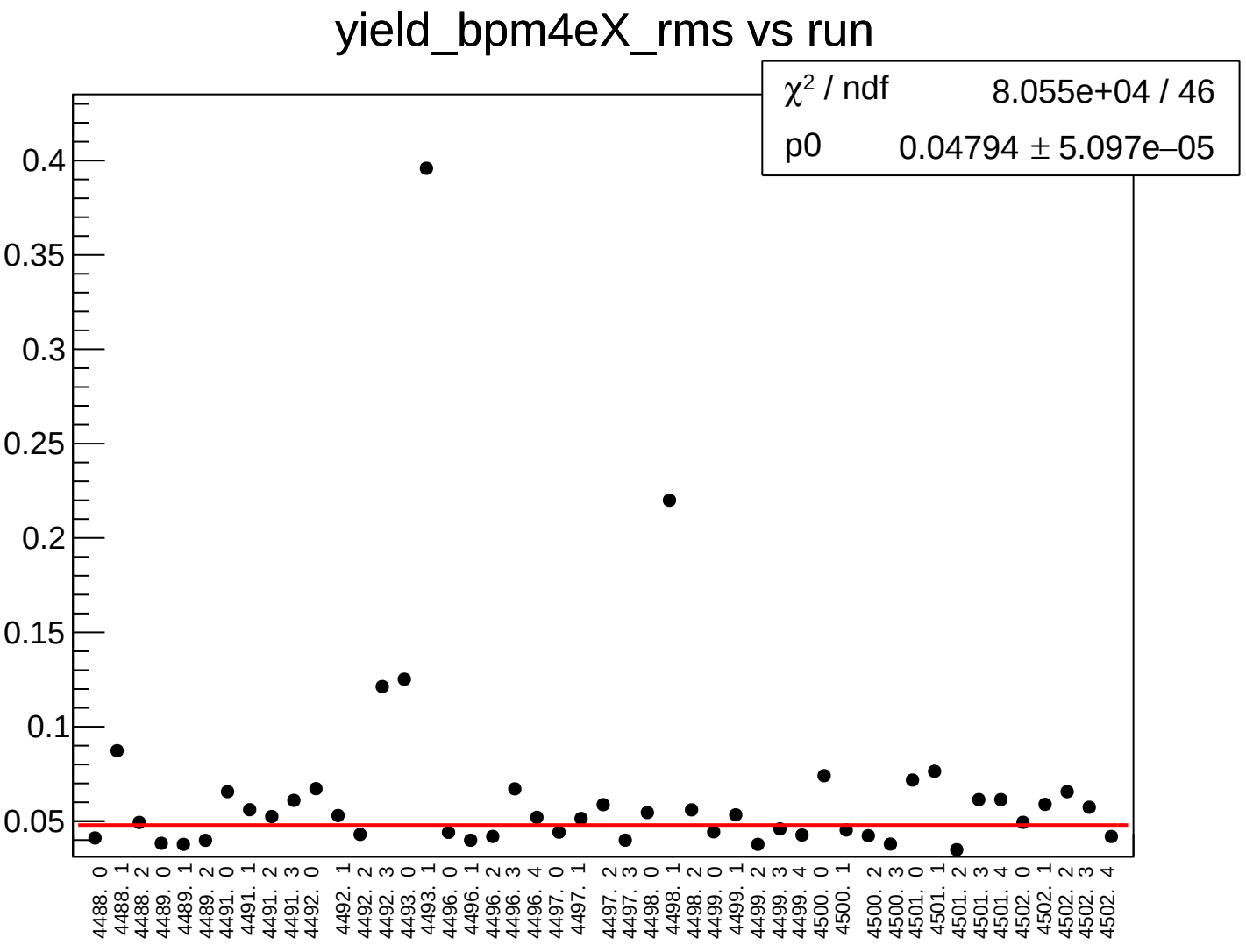

yield_bpm4aX_rms vs run
χ² / ndf 2.73e+04 / 46
p0 0.009038 ± 9.333e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

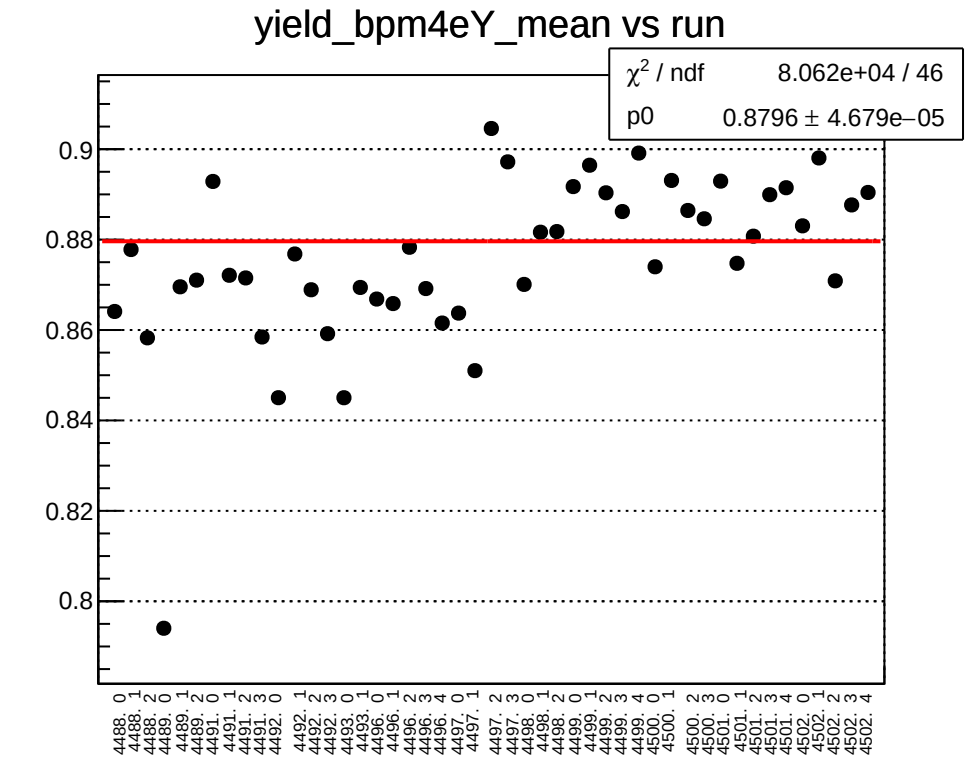

yield_bpm4aY_mean vs run
χ² / ndf 1.221e+05 / 46
p0 1.29 ± 5.456e−05
pull
Entries 47
Mean −57.08
Std Dev 78.81

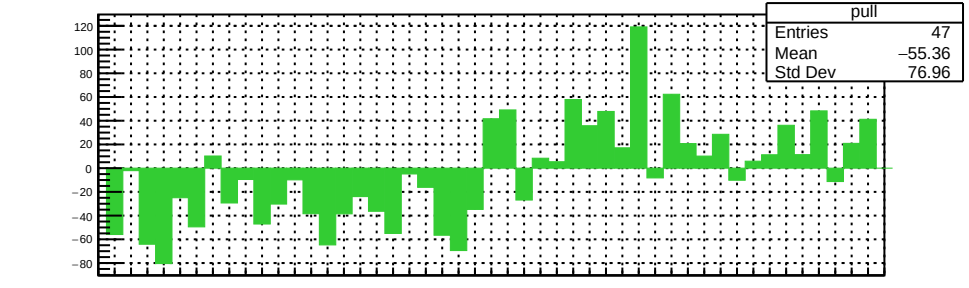

pull1D
Entries 47
Mean −0.149
Std Dev 5.03

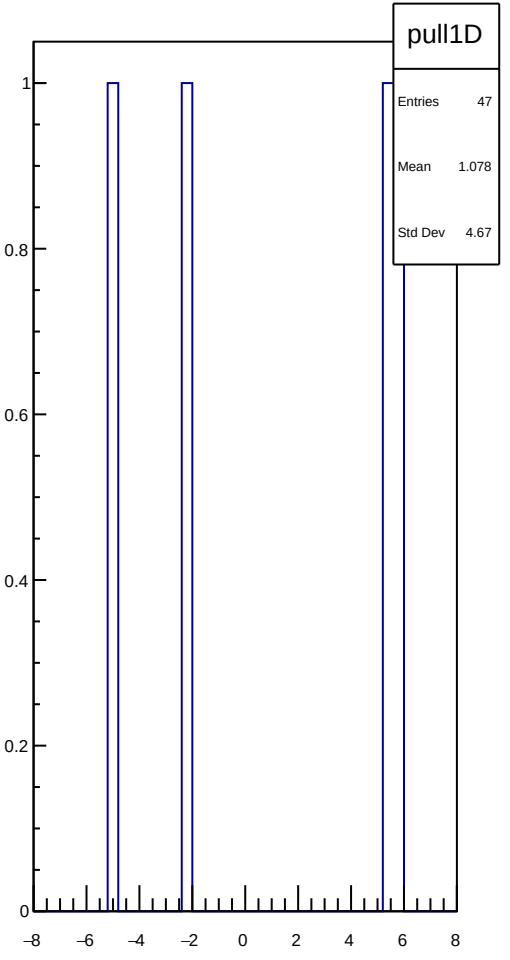

yield_bpm4aY_rms vs run
χ² / ndf 1.803e+05 / 46
p0 0.03418 ± 3.858e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

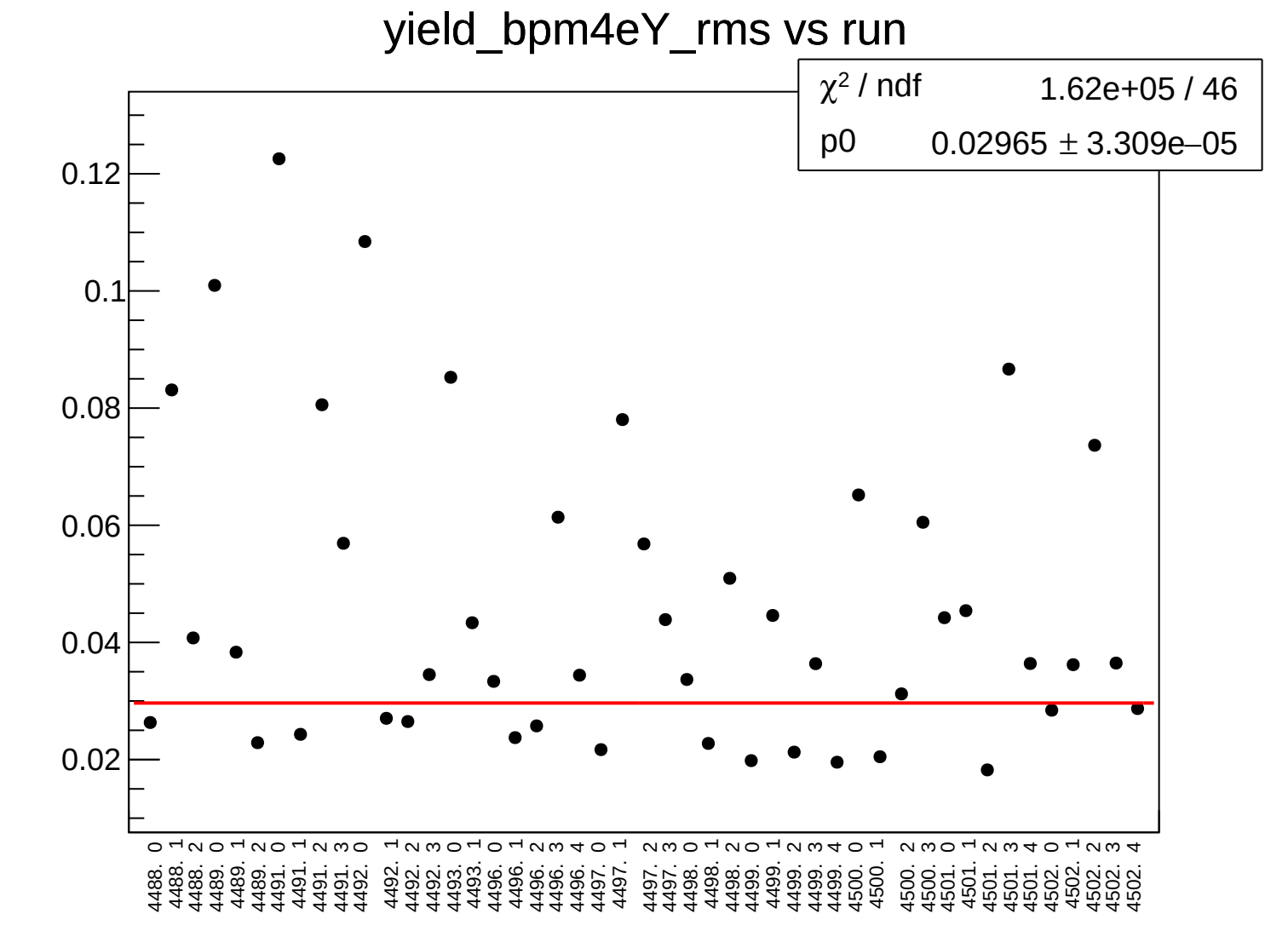

yield_bpm4eX_mean vs run
χ² / ndf 2.407e+05 / 46
p0 0.2584 ± 7.208e−05
pull
Entries 47
Mean −309.5
Std Dev 331.6
pull1D
Entries 47
Mean −3.316
Std Dev 5.92

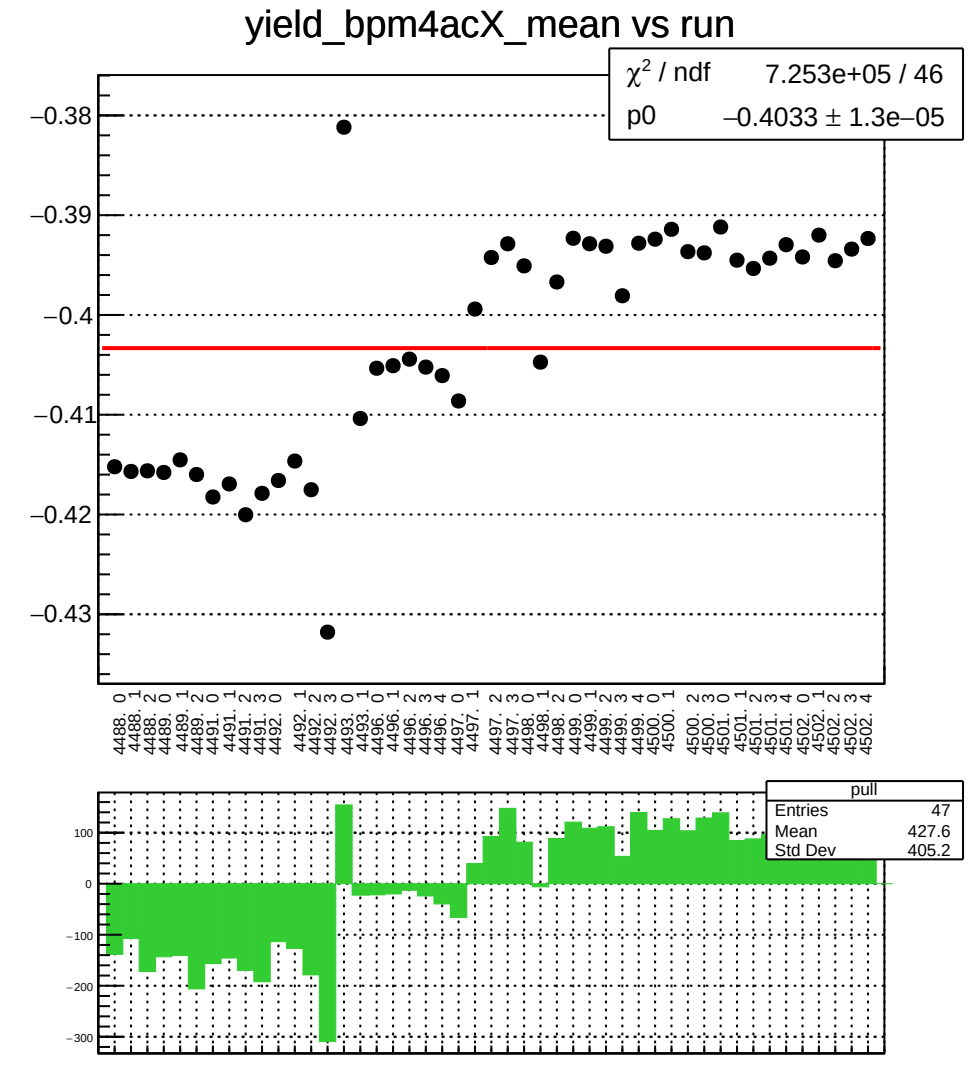

yield_bpm4eX_rms vs run
χ² / ndf 8.055e+04 / 46
p0 0.04794 ± 5.097e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

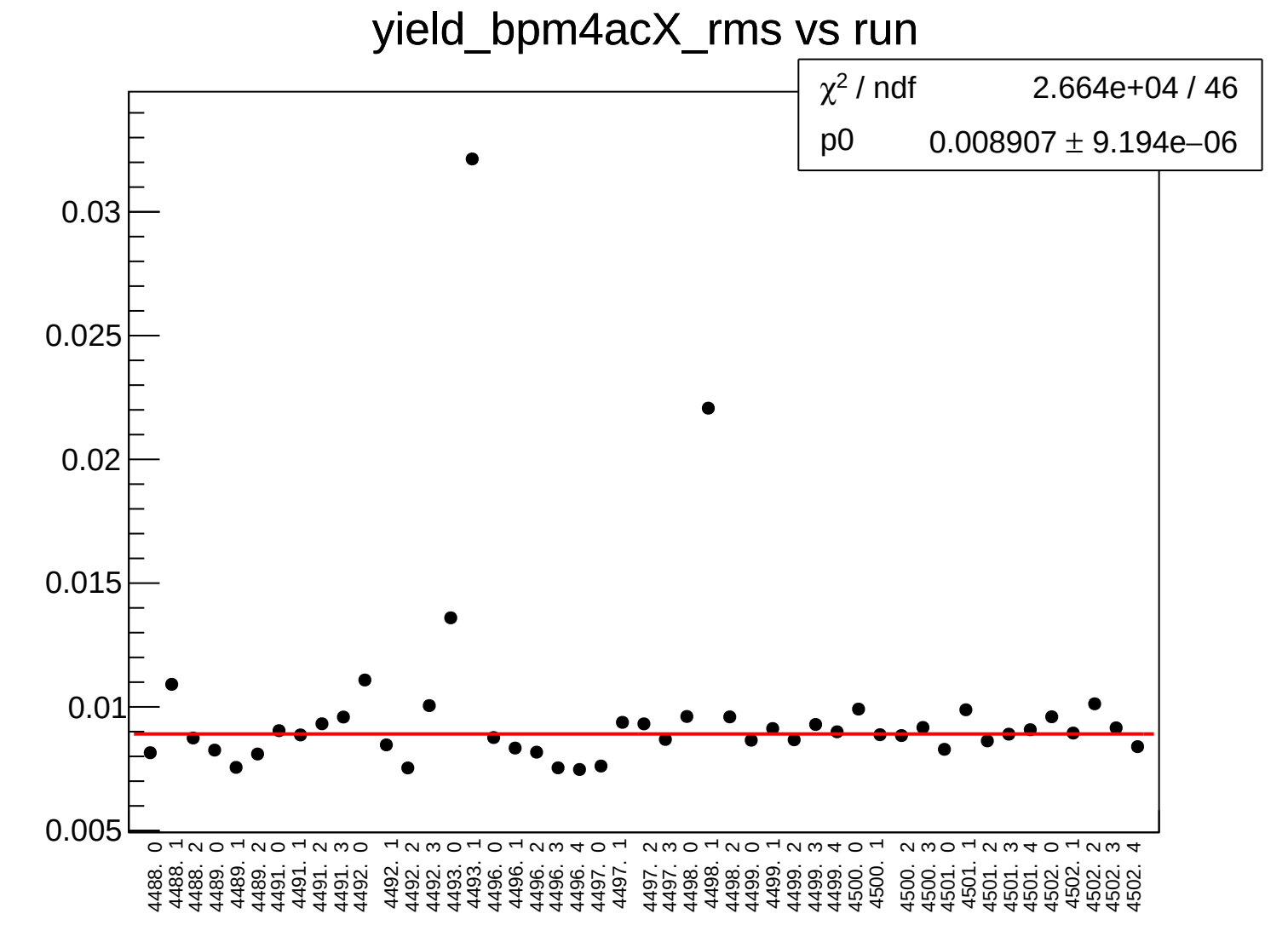

yield_bpm4eY_mean vs run
χ² / ndf 8.062e+04 / 46
p0 0.8796 ± 4.679e−05
0.9
0.88
0.86
0.84
0.82
0.8
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

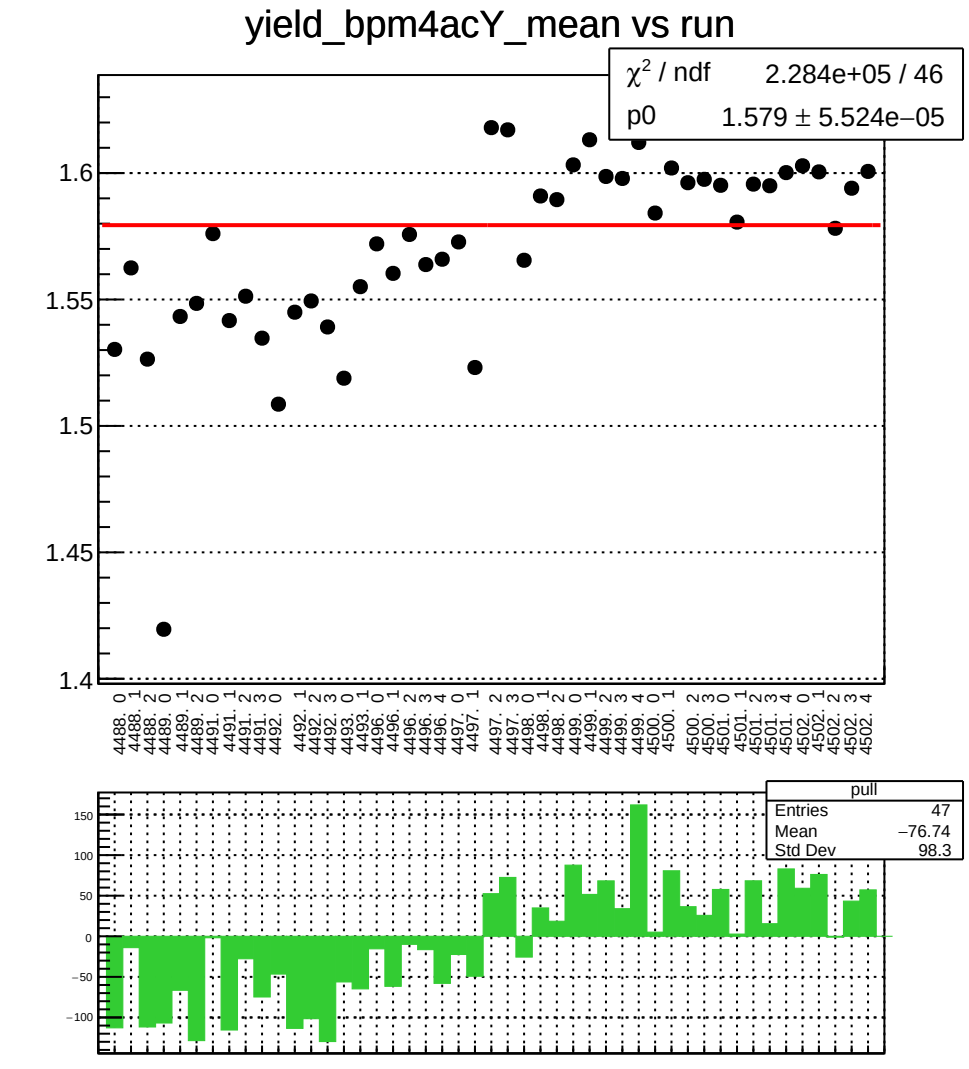

pull
Entries 47
Mean −55.36
Std Dev 76.96
120
100
80
60
40
20
0
−20
−40
−60
−80

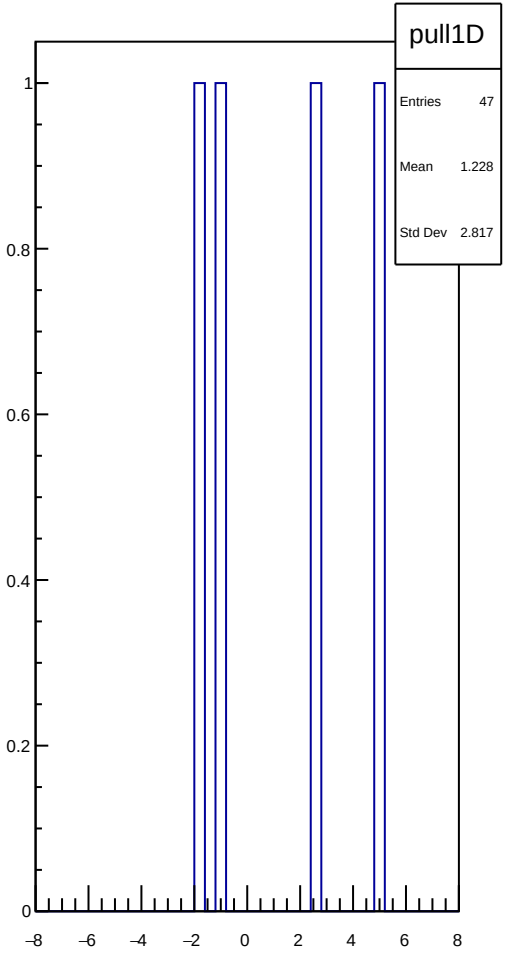

pull1D
Entries 47
Mean 1.078
Std Dev 4.67
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

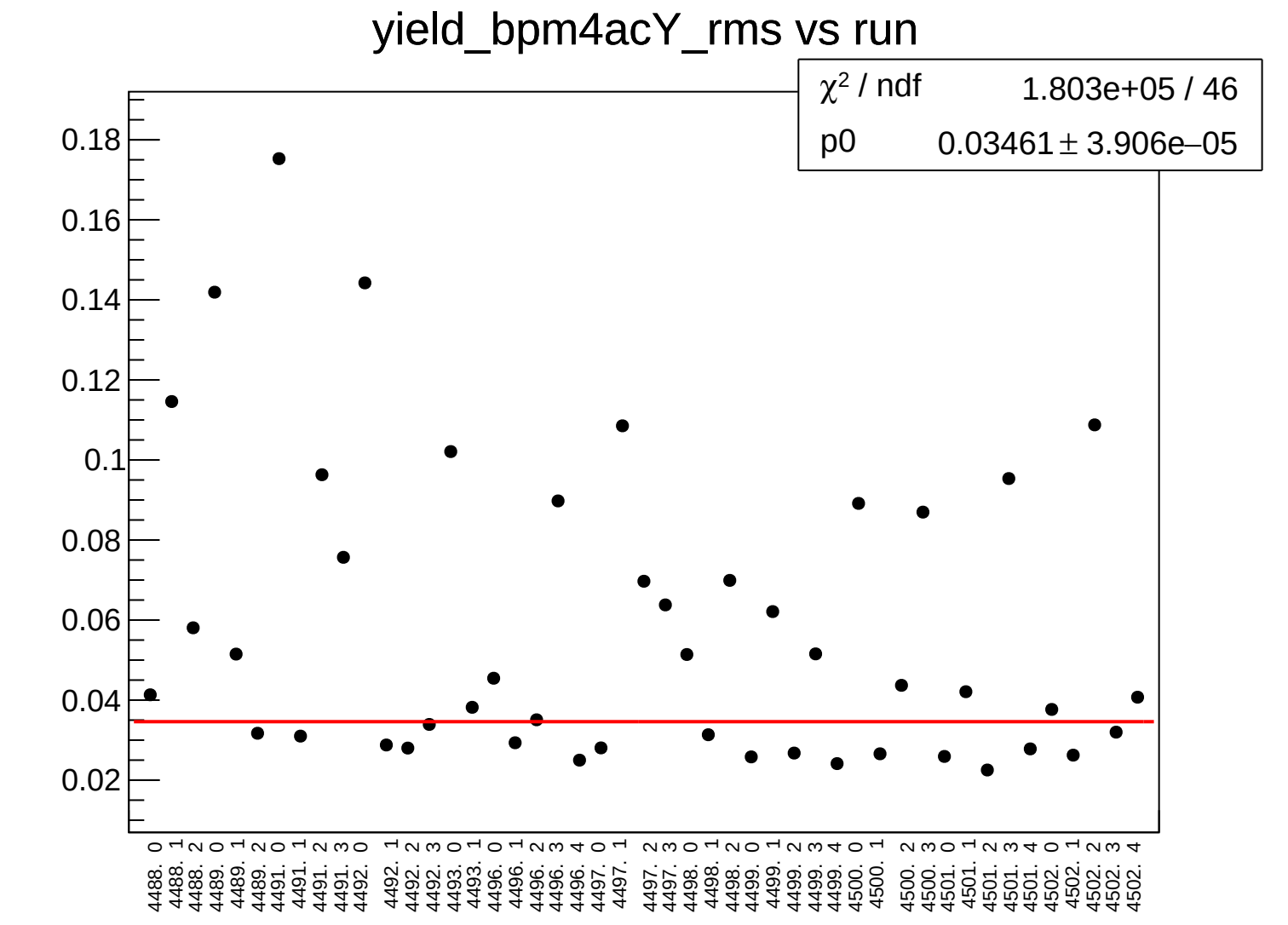

yield_bpm4eY_rms vs run
χ² / ndf 1.62e+05 / 46
p0 0.02965 ± 3.309e–05
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

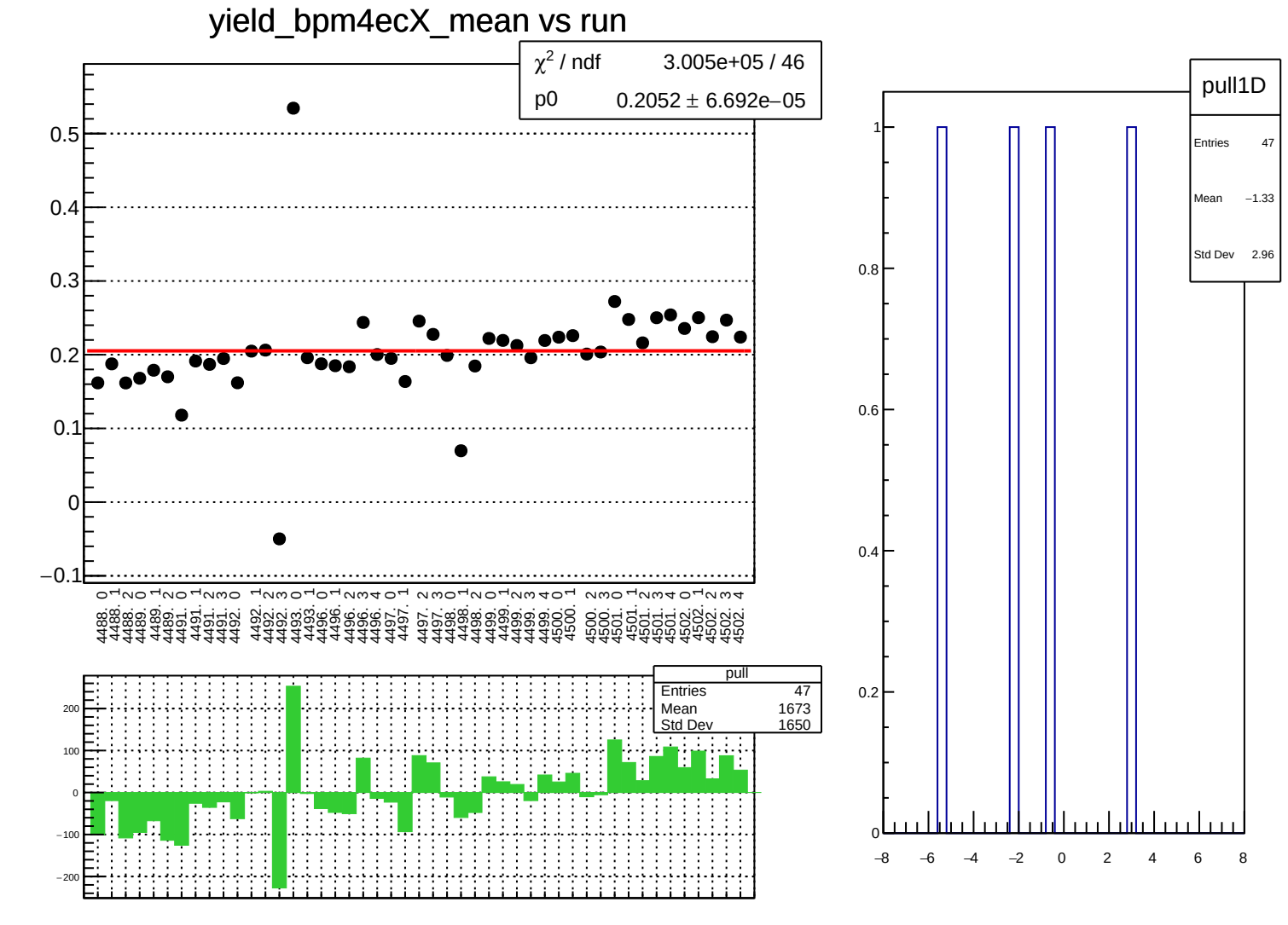

yield_bpm4acX_mean vs run
χ² / ndf 7.253e+05 / 46
p0 −0.4033 ± 1.3e−05
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 427.6
Std Dev 405.2
100
0
−100
−200
−300
pull1D
Entries 47
Mean −6.029
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

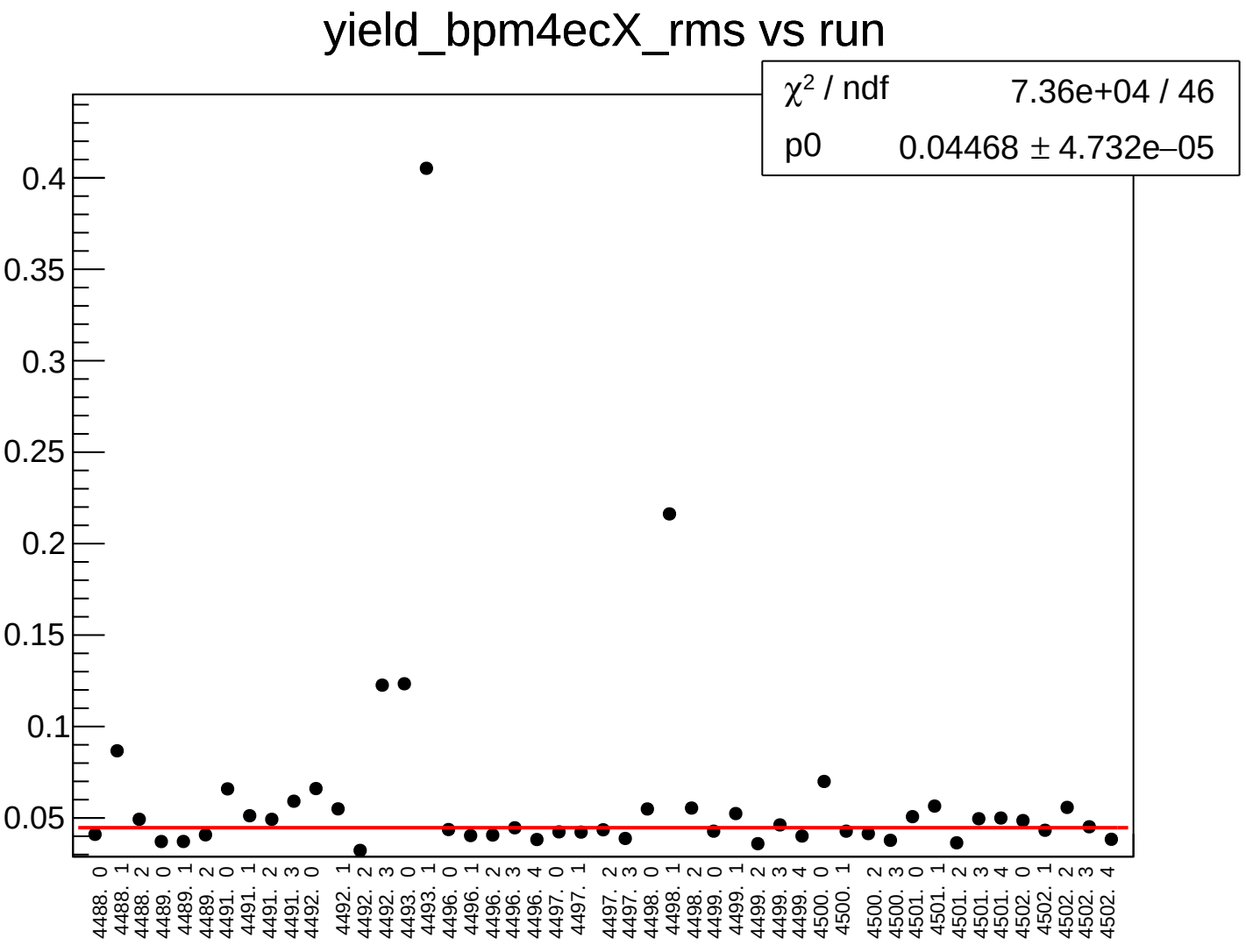

yield_bpm4acX_rms vs run
χ² / ndf 2.664e+04 / 46
p0 0.008907 ± 9.194e−06
0.03
0.025
0.02
0.015
0.01
0.005
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

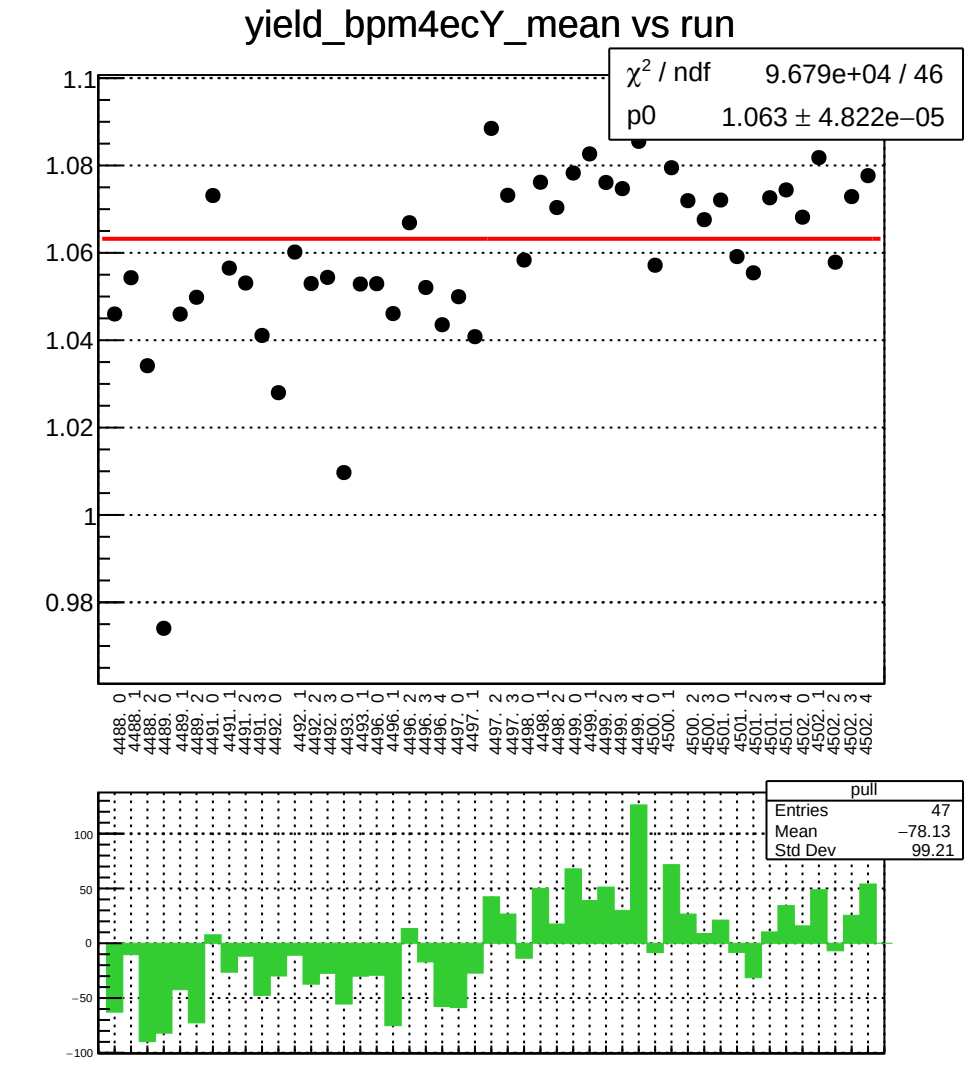

yield_bpm4acY_mean vs run
χ² / ndf 2.284e+05 / 46
p0 1.579 ± 5.524e−05
1.6
1.55
1.5
1.45
1.4
pull
Entries 47
Mean −76.74
Std Dev 98.3
150
100
50
0
−50
−100

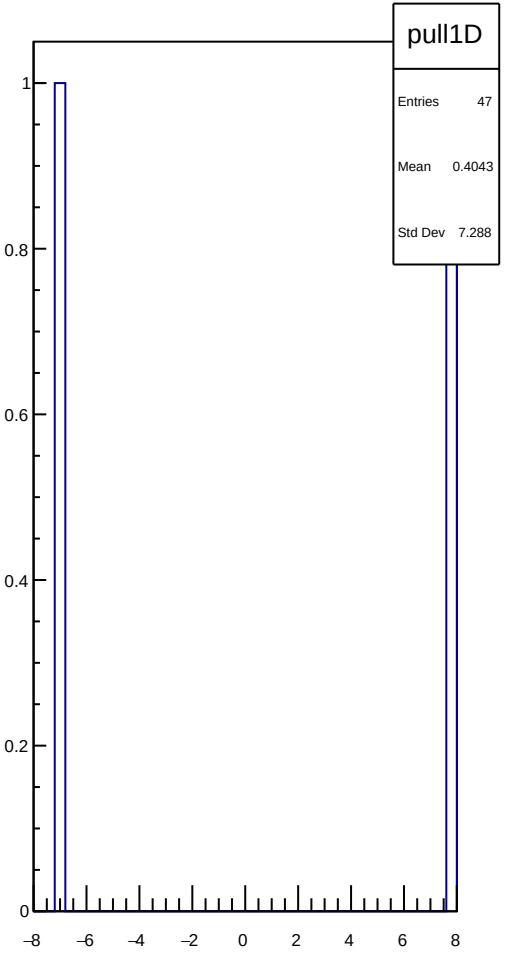

pull1D
Entries 47
Mean 1.228
Std Dev 2.817
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

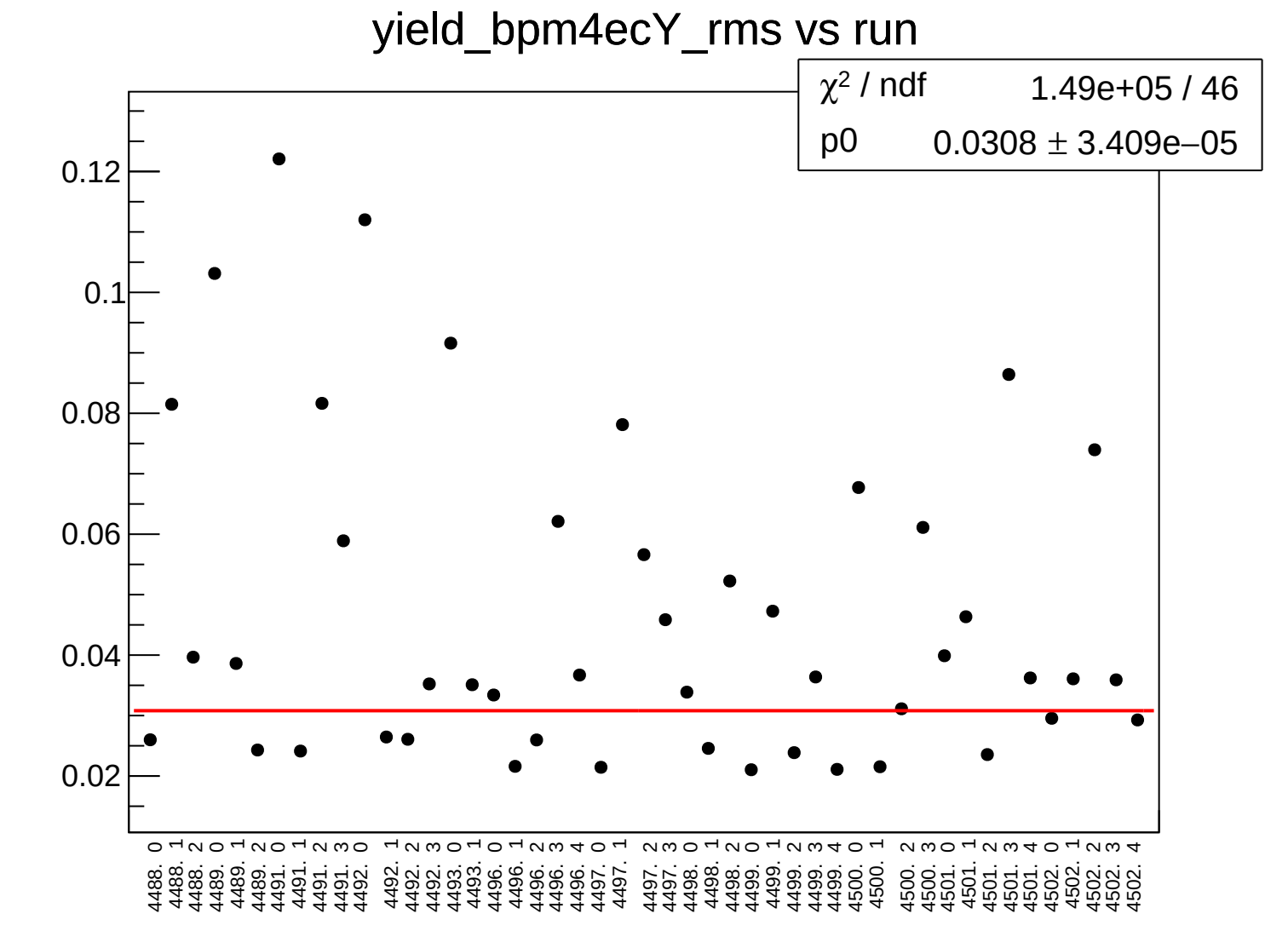

yield_bpm4acY_rms vs run
χ² / ndf 1.803e+05 / 46
p0 0.03461 ± 3.906e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

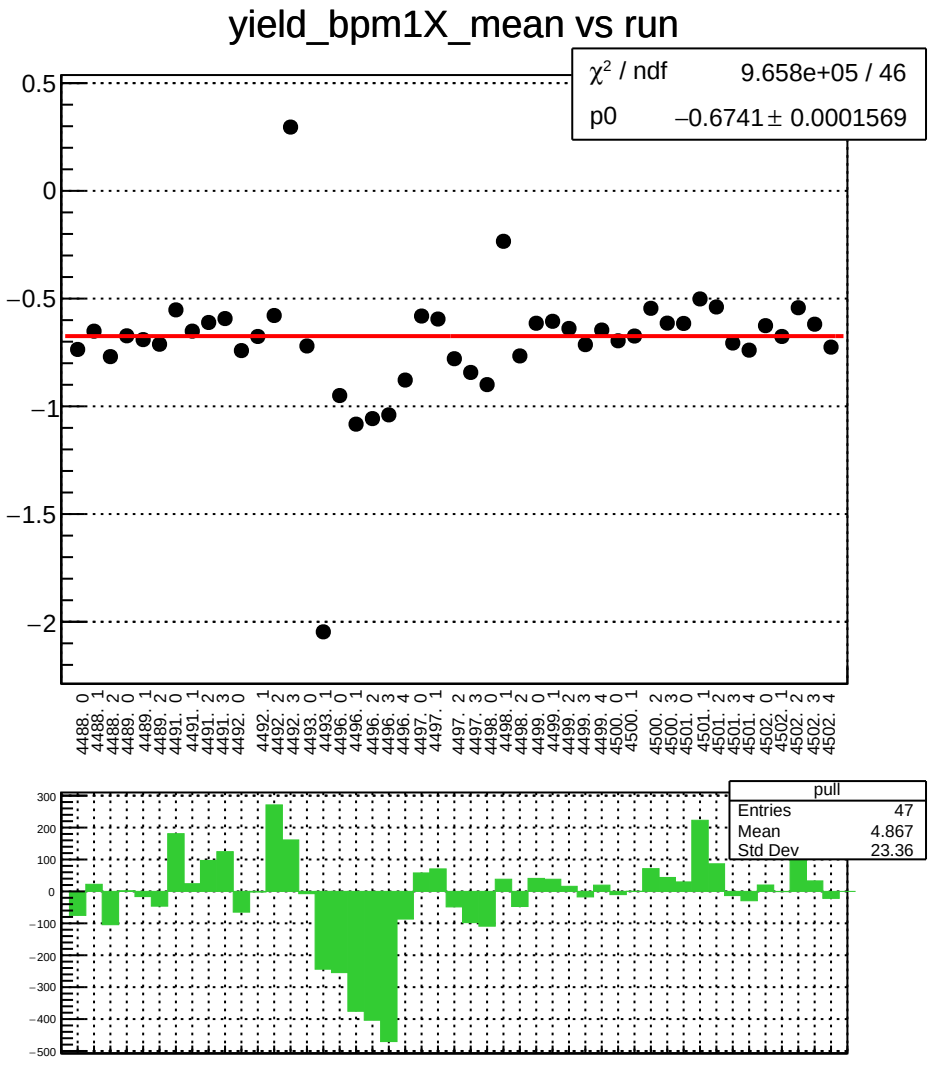

yield_bpm4ecX_mean vs run
χ² / ndf 3.005e+05 / 46
p0 0.2052 ± 6.692e−05
pull
Entries 47
Mean 1673
Std Dev 1650
pull1D
Entries 47
Mean −1.33
Std Dev 2.96

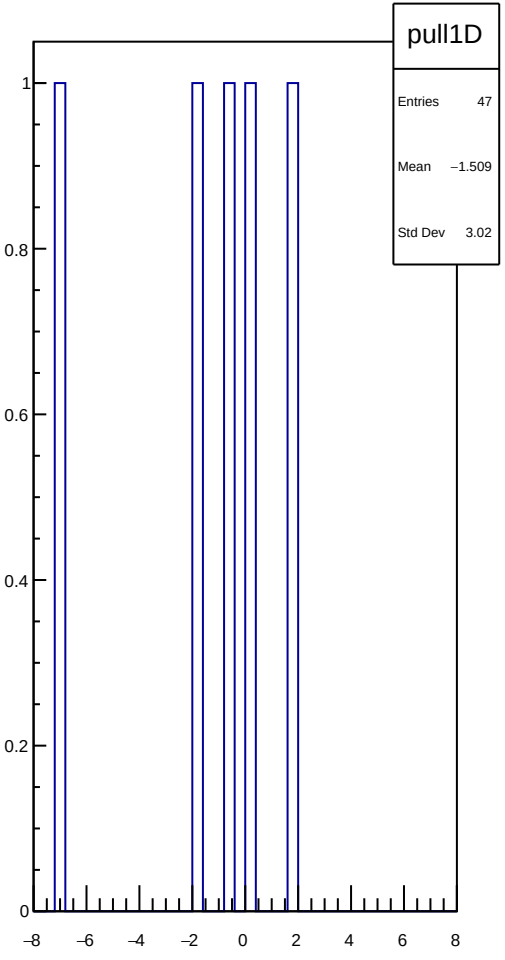

yield_bpm4ecX_rms vs run
χ² / ndf 7.36e+04 / 46
p0 0.04468 ± 4.732e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

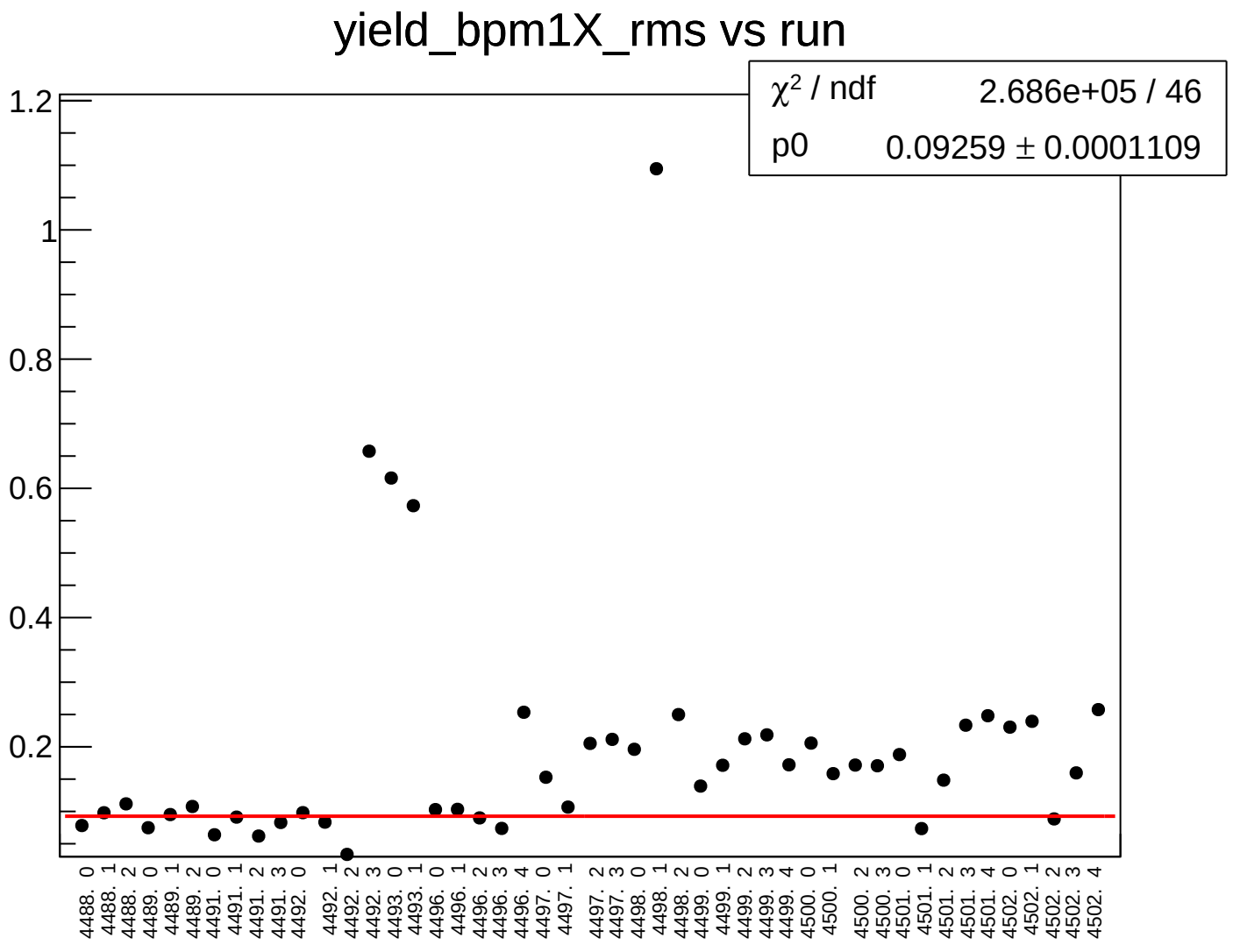

yield_bpm4ecY_mean vs run
χ² / ndf 9.679e+04 / 46
p0 1.063 ± 4.822e−05
1.1
1.08
1.06
1.04
1.02
1
0.98
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −78.13
Std Dev 99.21
100
50
0
−50
−100

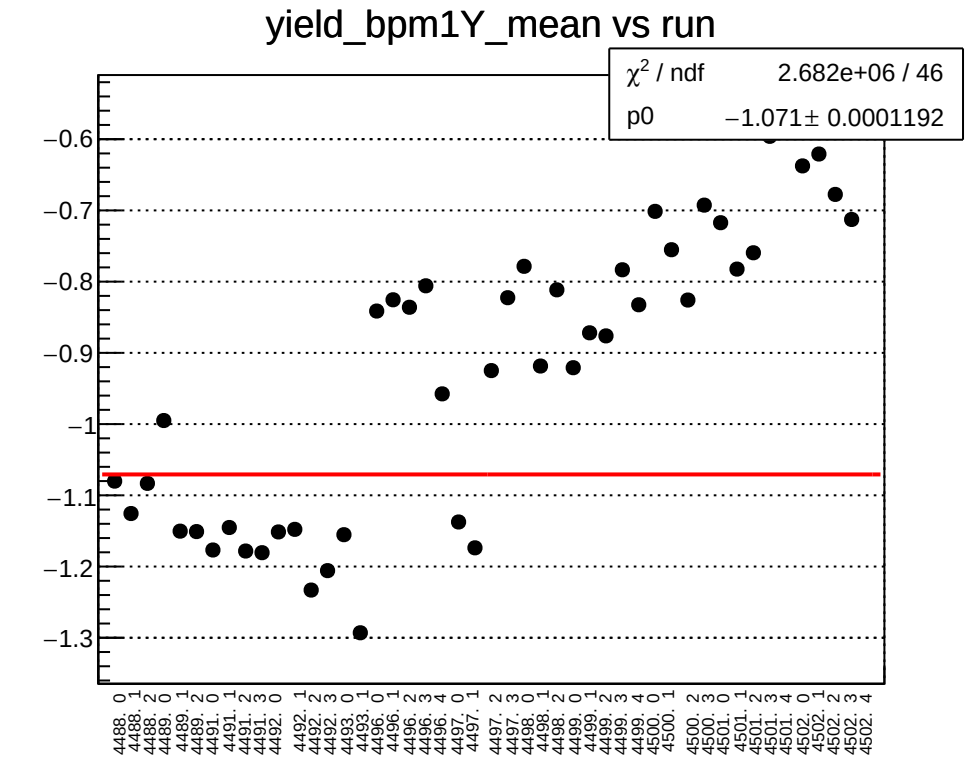

pull1D
Entries 47
Mean 0.4043
Std Dev 7.288
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

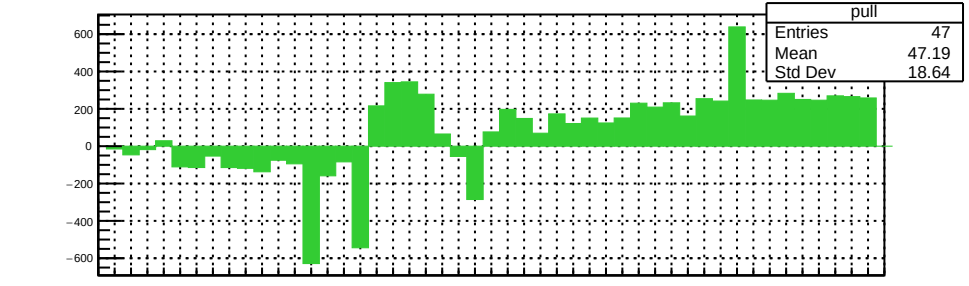

yield_bpm4ecY_rms vs run
χ² / ndf 1.49e+05 / 46
p0 0.0308 ± 3.409e−05
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

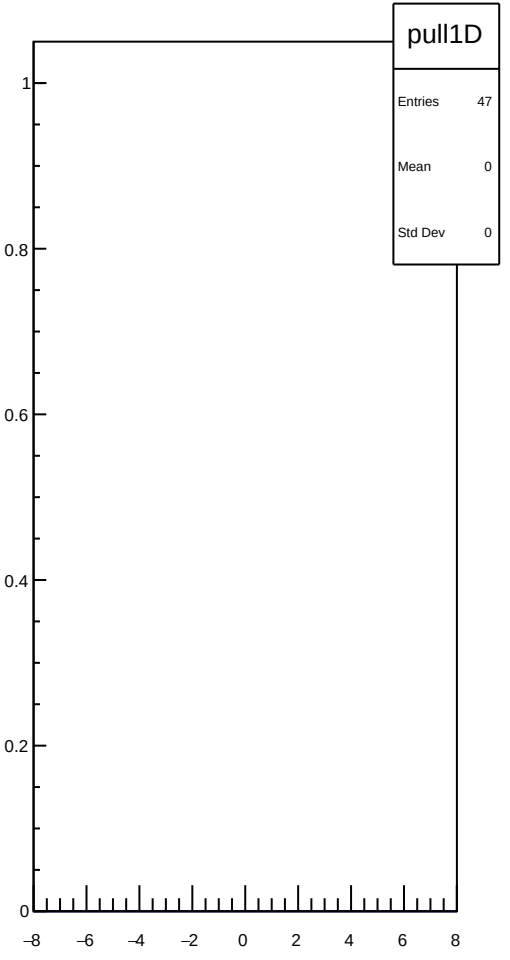

yield_bpm1X_mean vs run
χ² / ndf 9.658e+05 / 46
p0 −0.6741 ± 0.0001569
pull
Entries 47
Mean 4.867
Std Dev 23.36

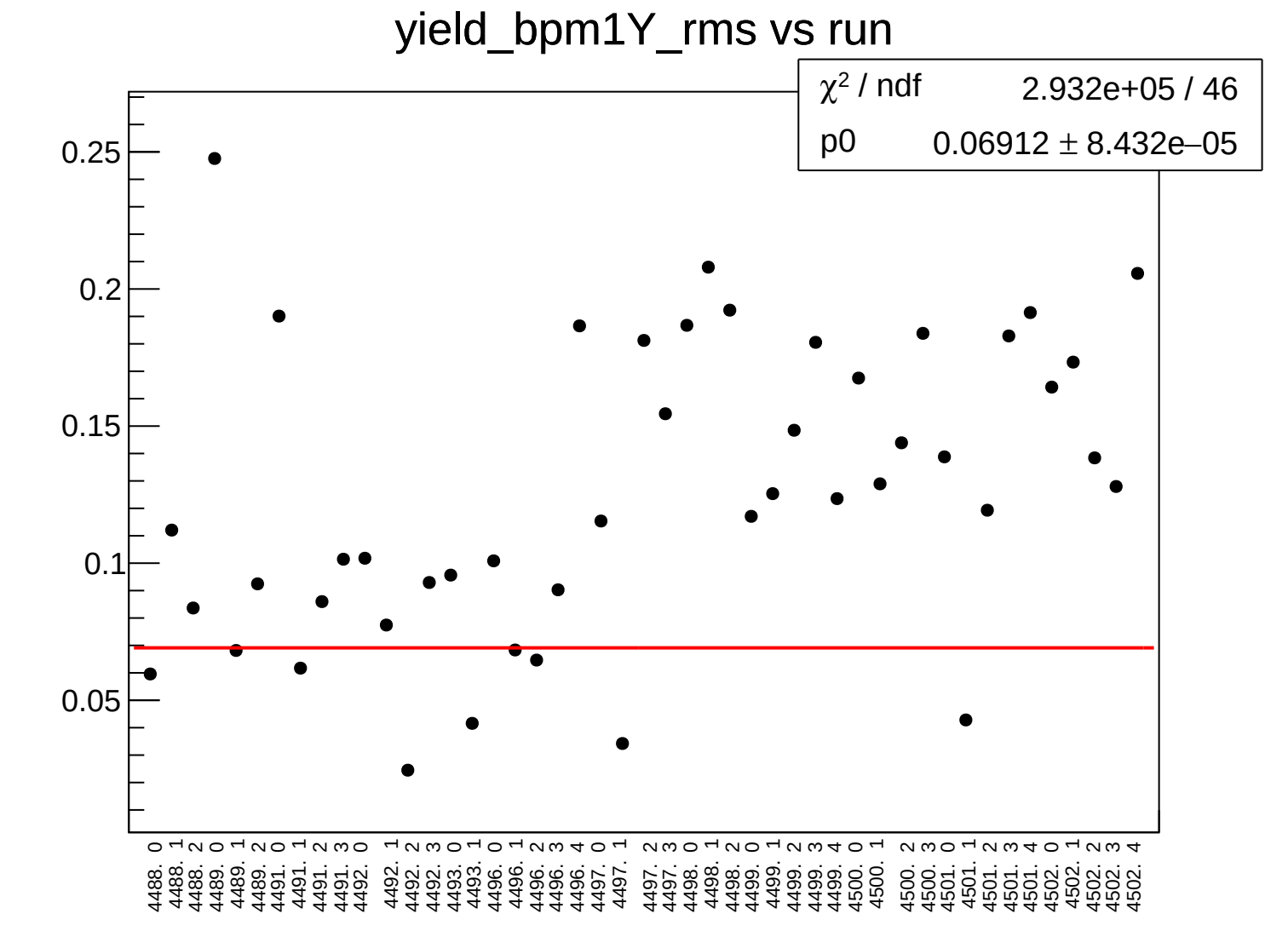

pull1D
Entries 47
Mean −1.509
Std Dev 3.02

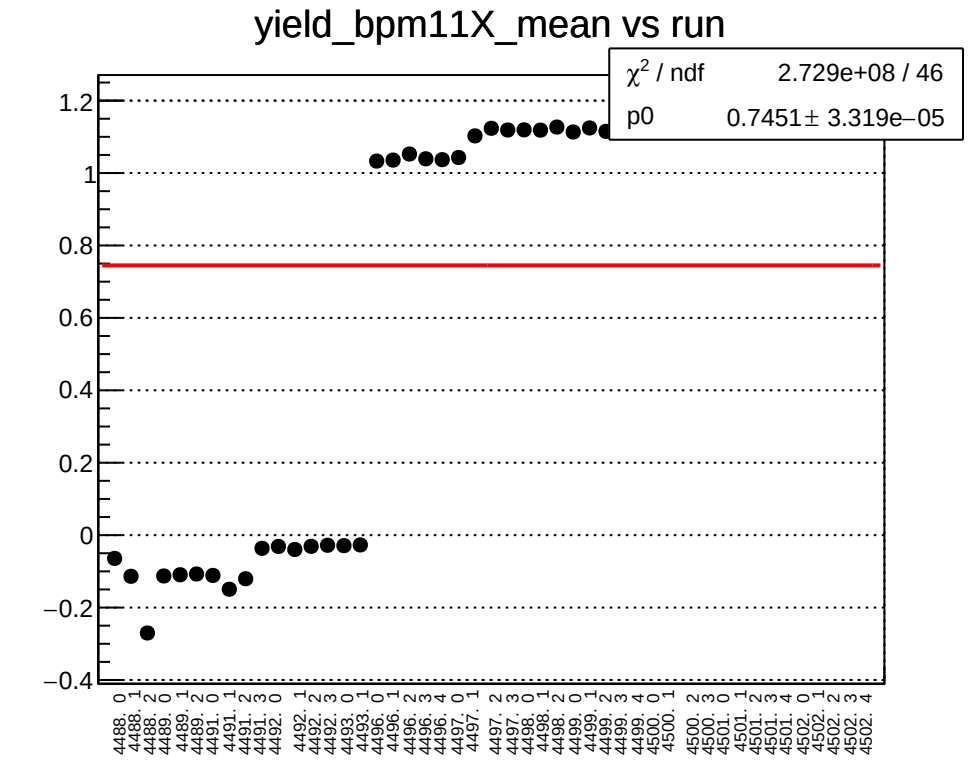

yield_bpm1X_rms vs run
χ² / ndf 2.686e+05 / 46
p0 0.09259 ± 0.0001109
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

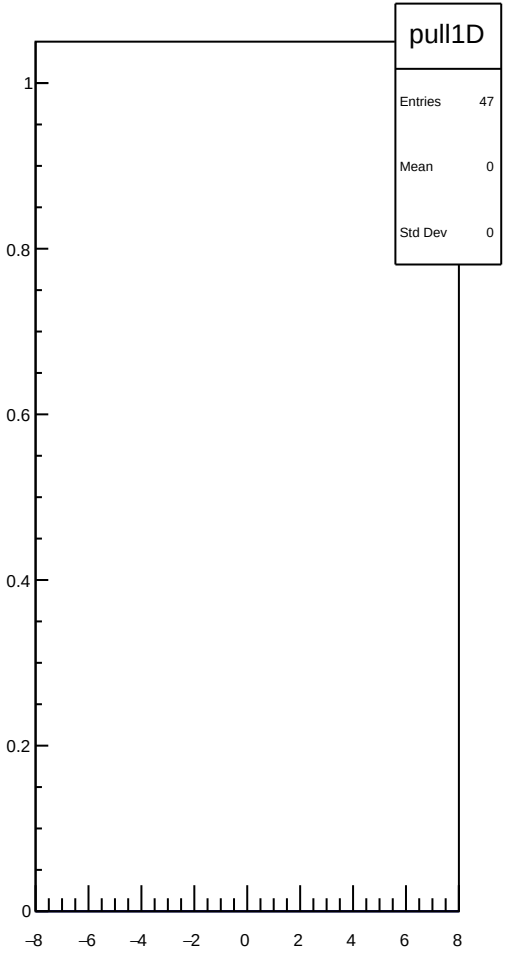

yield_bpm1Y_mean vs run
χ² / ndf 2.682e+06 / 46
p0 −1.071± 0.0001192
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

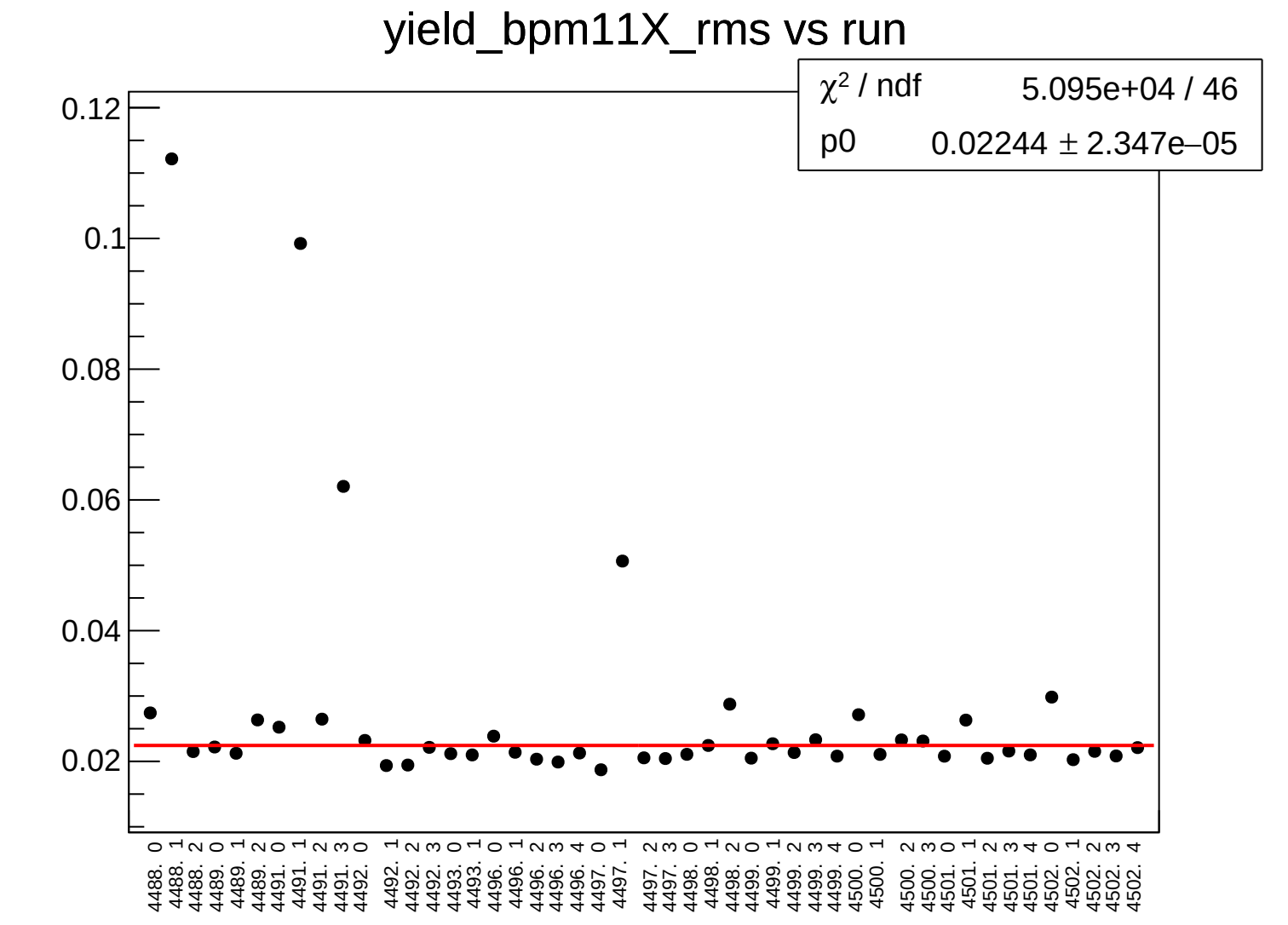

pull
Entries 47
Mean 47.19
Std Dev 18.64
600
400
200
0
−200
−400
−600

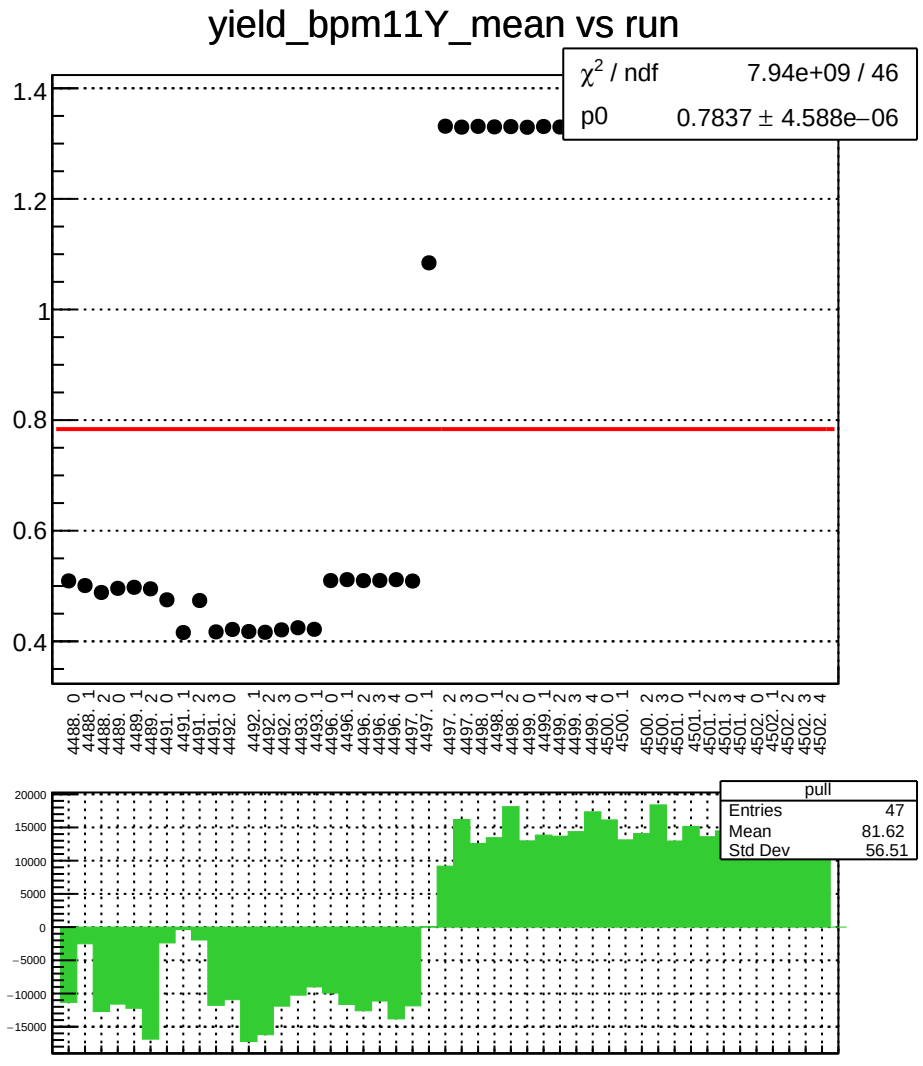

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

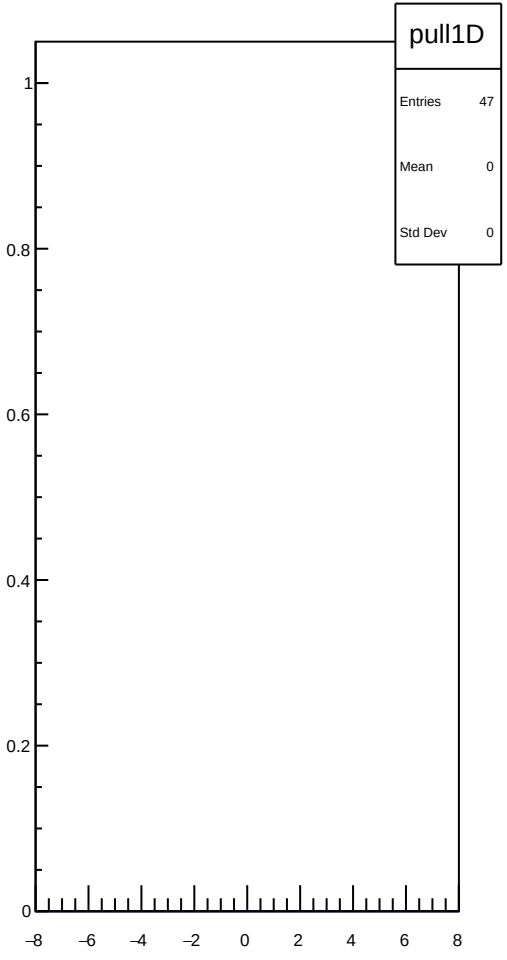

yield_bpm1Y_rms vs run
χ² / ndf 2.932e+05 / 46
p0 0.06912 ± 8.432e−05
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

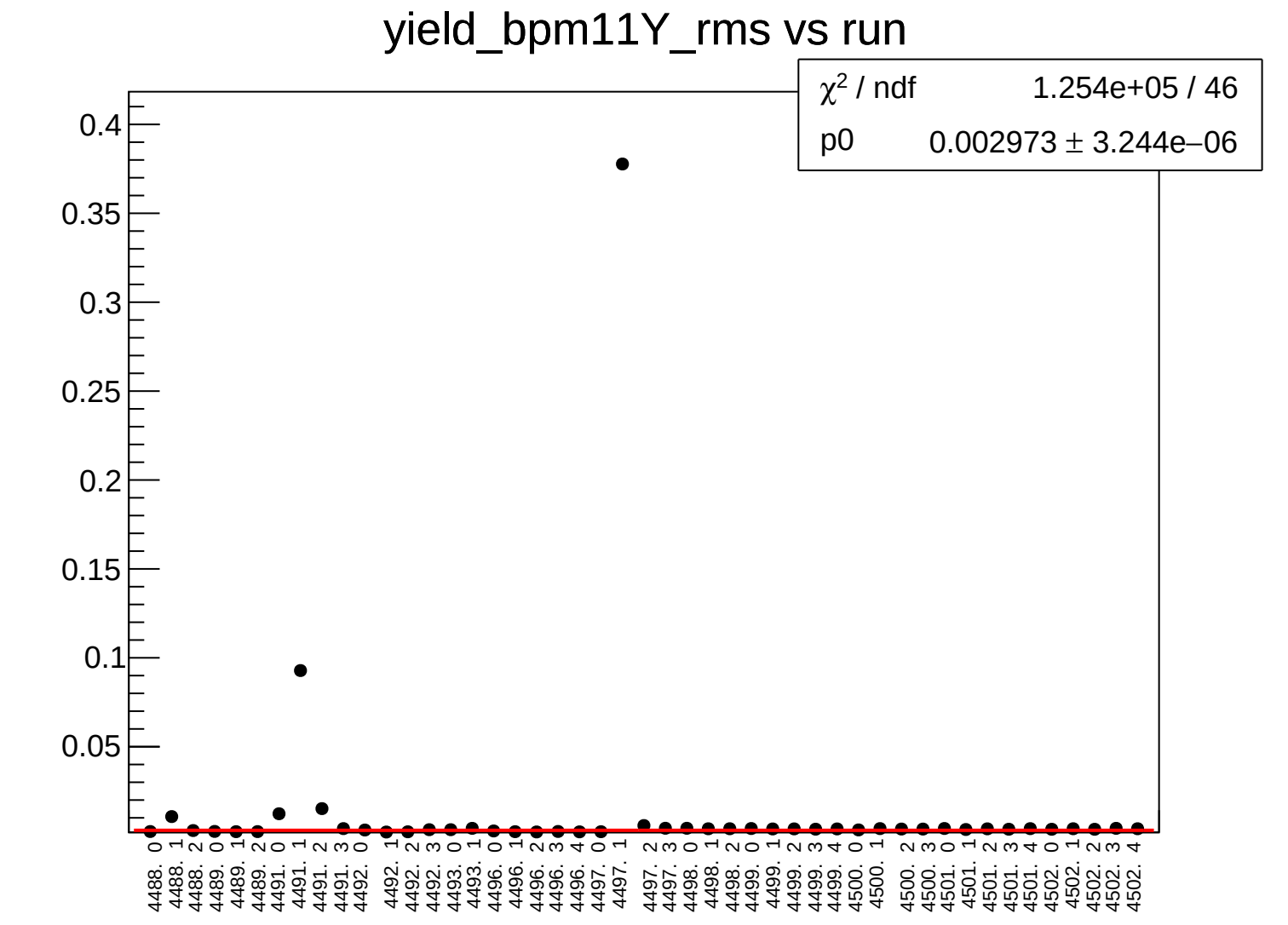

yield_bpm11X_mean vs run
χ² / ndf 2.729e+08 / 46
p0 0.7451 ± 3.319e−05
pull
Entries 47
Mean −564.7
Std Dev 585.8

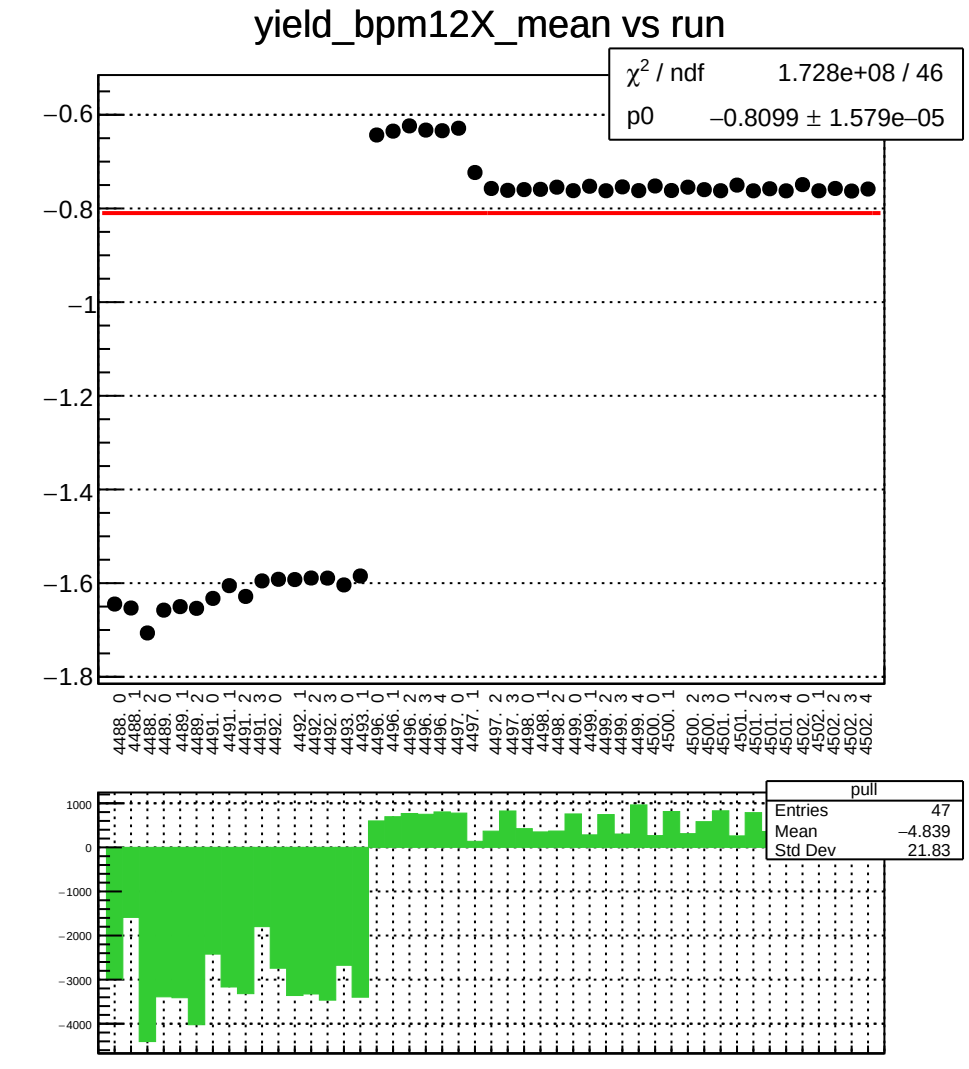

pull1D
Entries 47
Mean 0
Std Dev 0

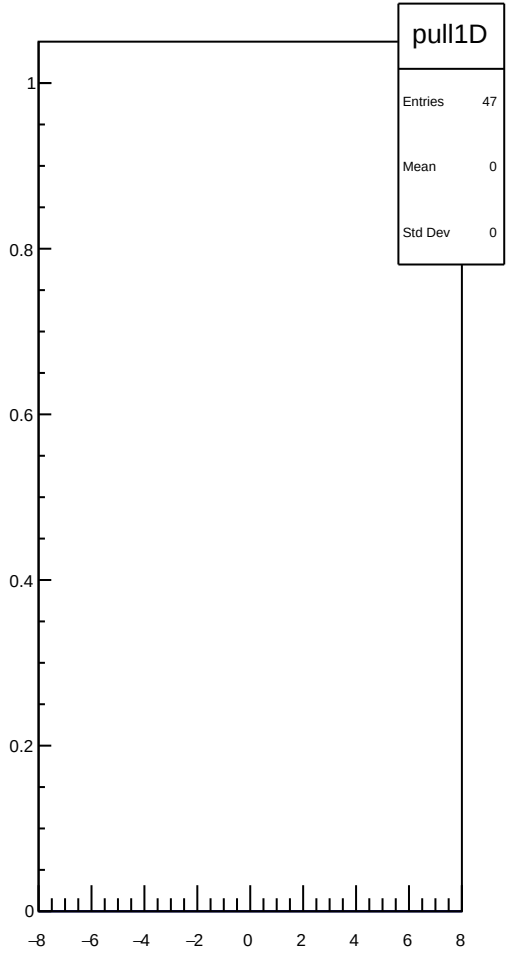

yield_bpm11X_rms vs run
χ² / ndf 5.095e+04 / 46
p0 0.02244 ± 2.347e–05
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

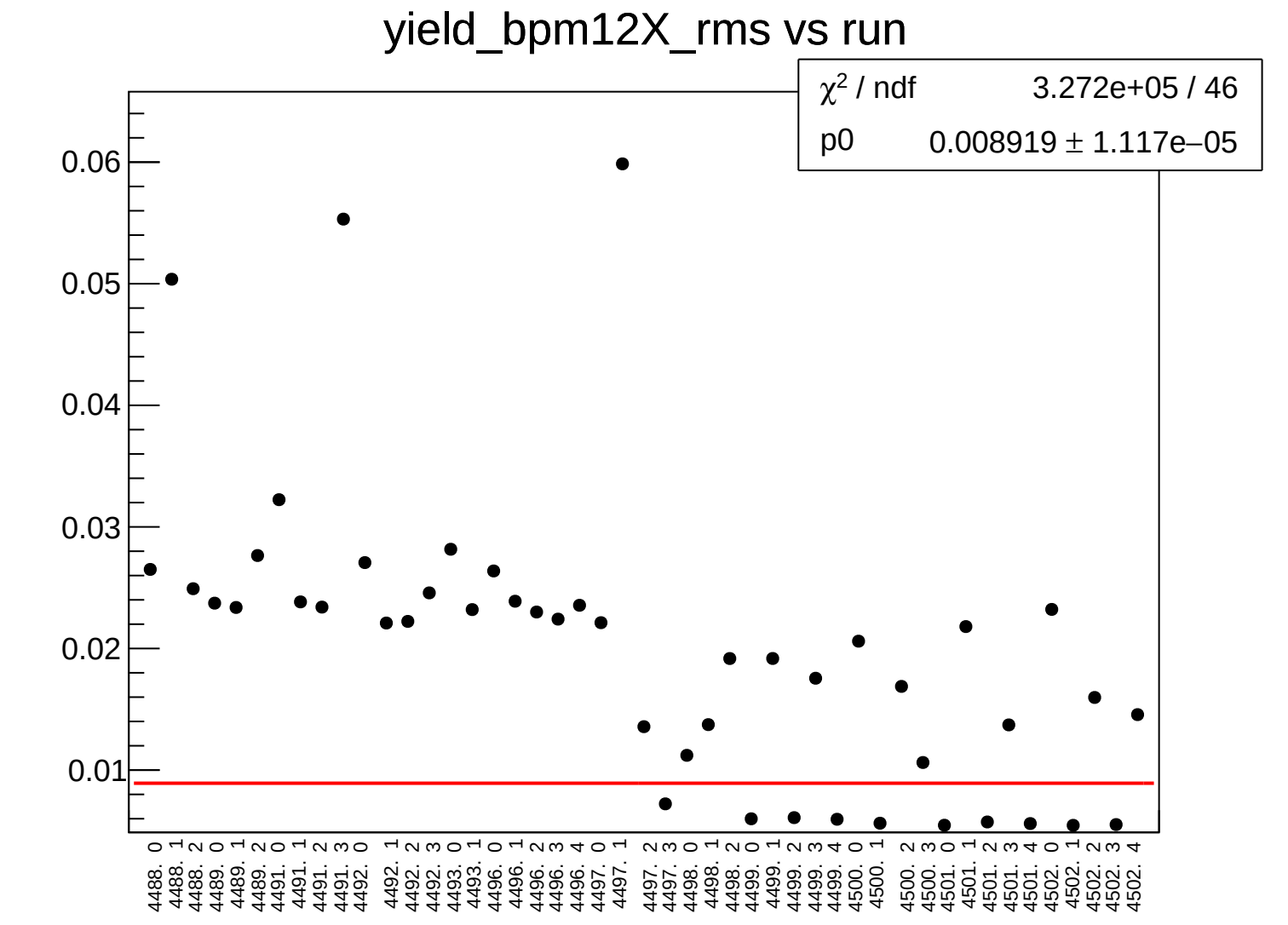

yield_bpm11Y_mean vs run
χ² / ndf 7.94e+09 / 46
p0 0.7837 ± 4.588e−06
1.4
1.2
1
0.8
0.6
0.4
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 47
Mean 81.62
Std Dev 56.51

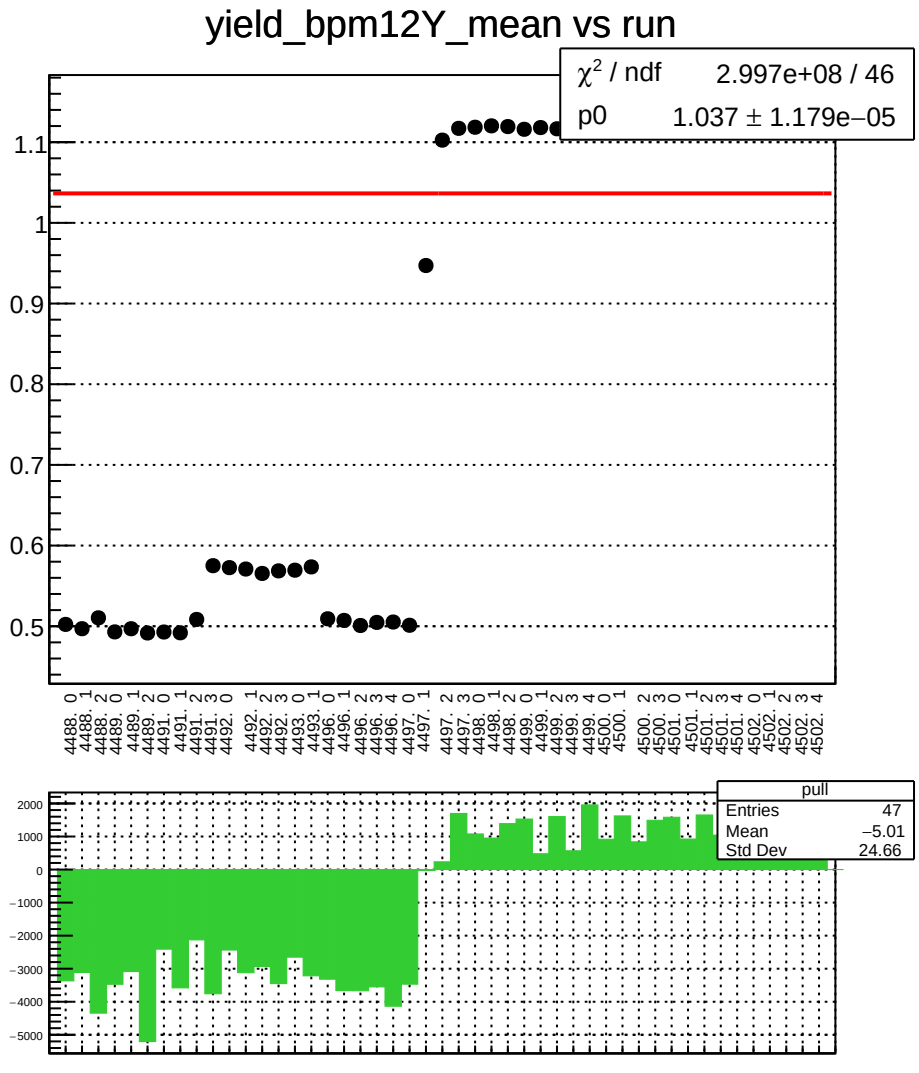

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

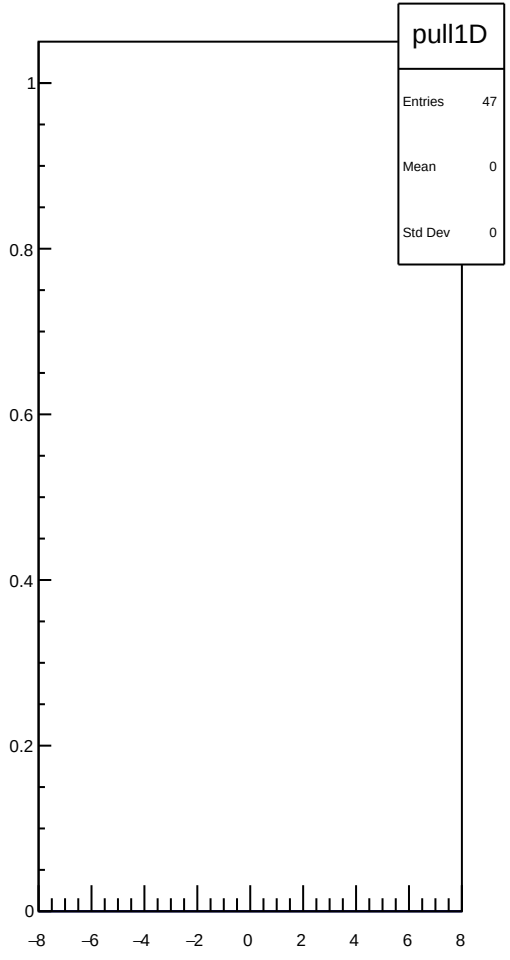

yield_bpm11Y_rms vs run
χ² / ndf 1.254e+05 / 46
p0 0.002973 ± 3.244e−06
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

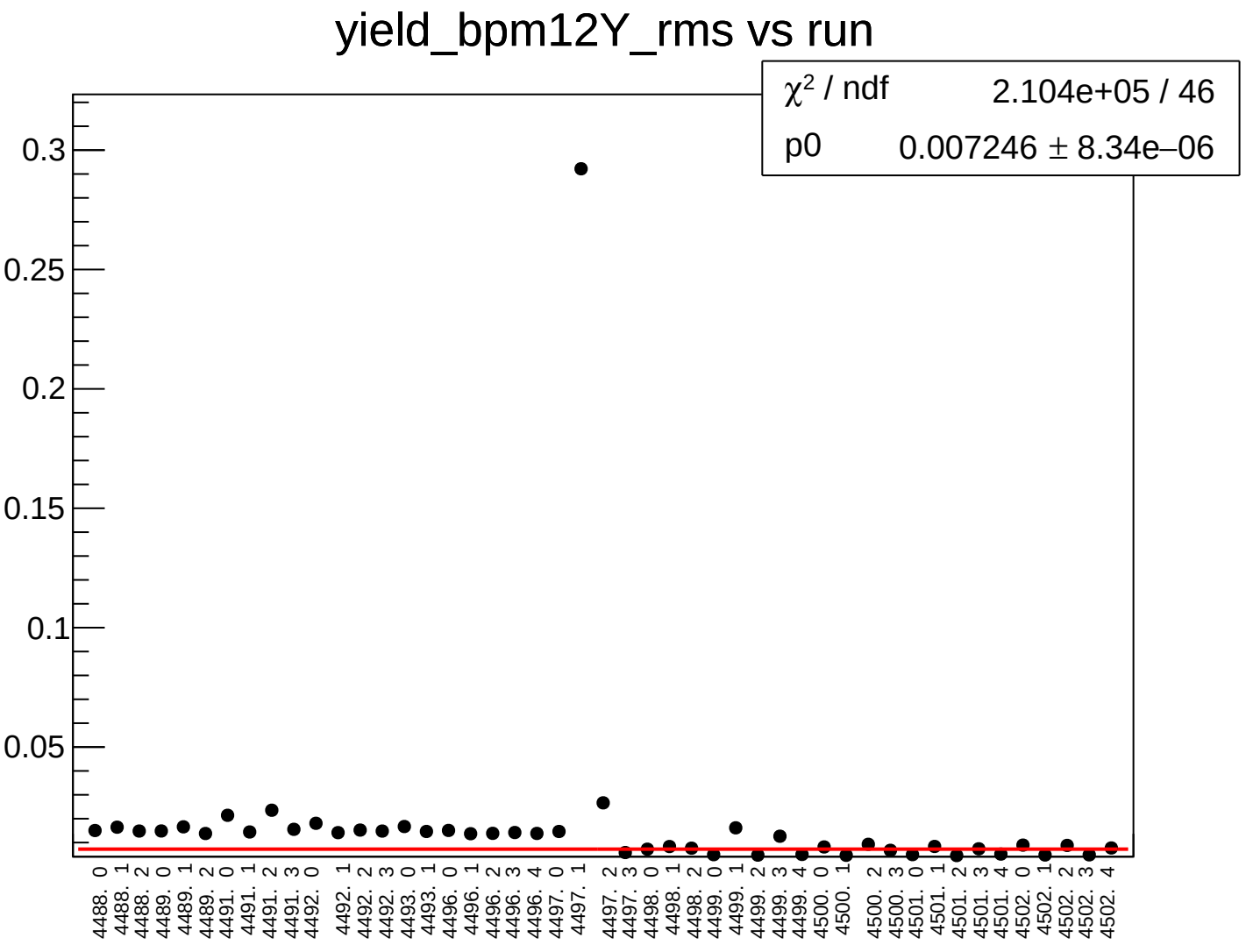

yield_bpm12X_mean vs run
χ² / ndf 1.728e+08 / 46
p0 −0.8099 ± 1.579e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4489. 3
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −4.839
Std Dev 21.83
1000
0
−1000
−2000
−3000
−4000

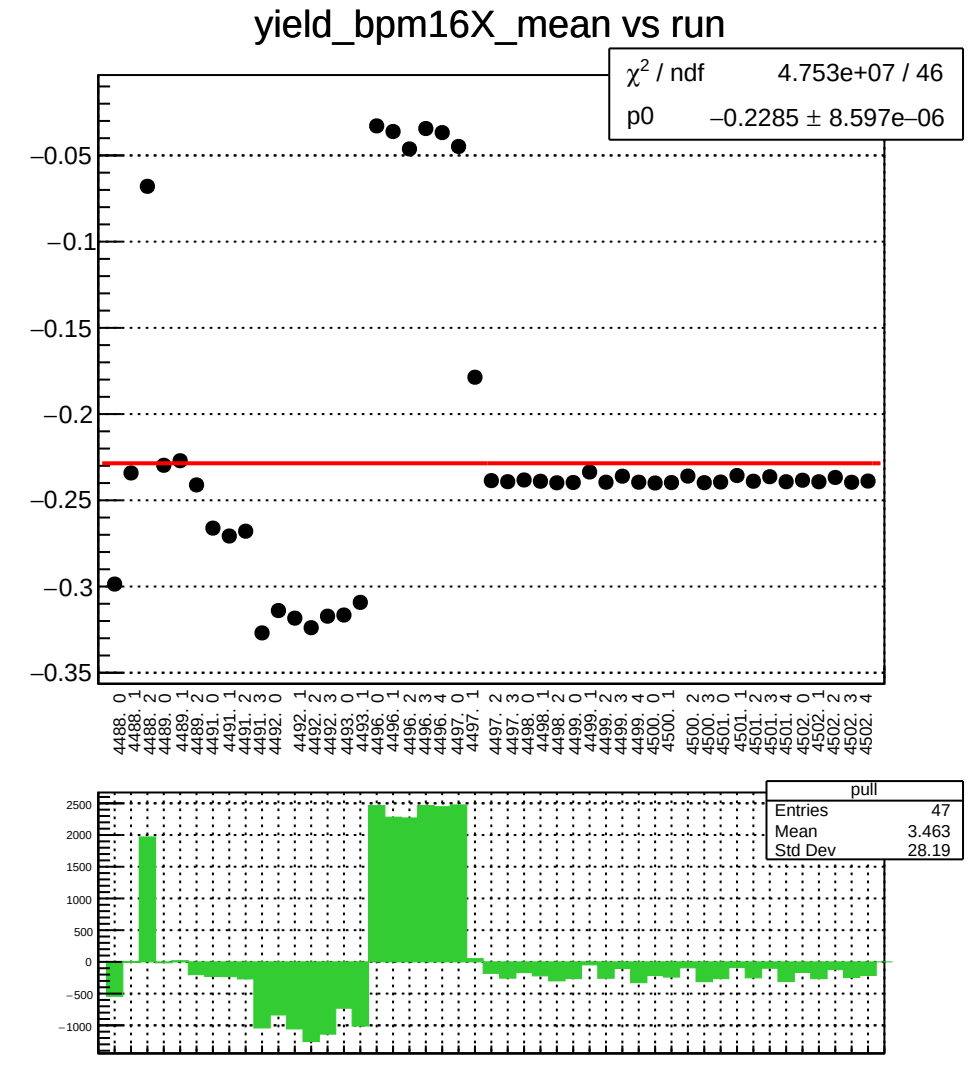

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

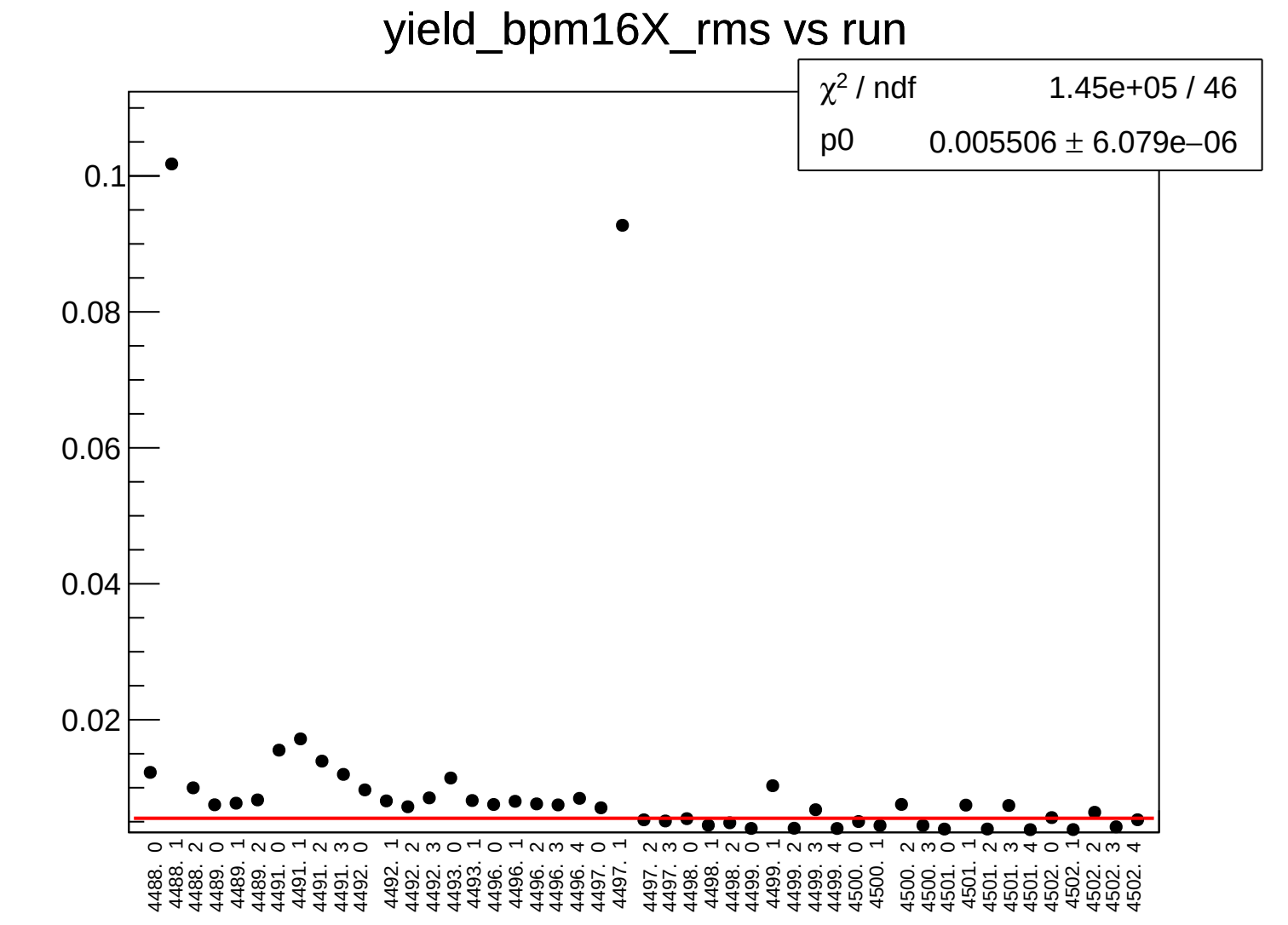

yield_bpm12X_rms vs run
χ² / ndf 3.272e+05 / 46
p0 0.008919 ± 1.117e−05
0.06
0.05
0.04
0.03
0.02
0.01
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

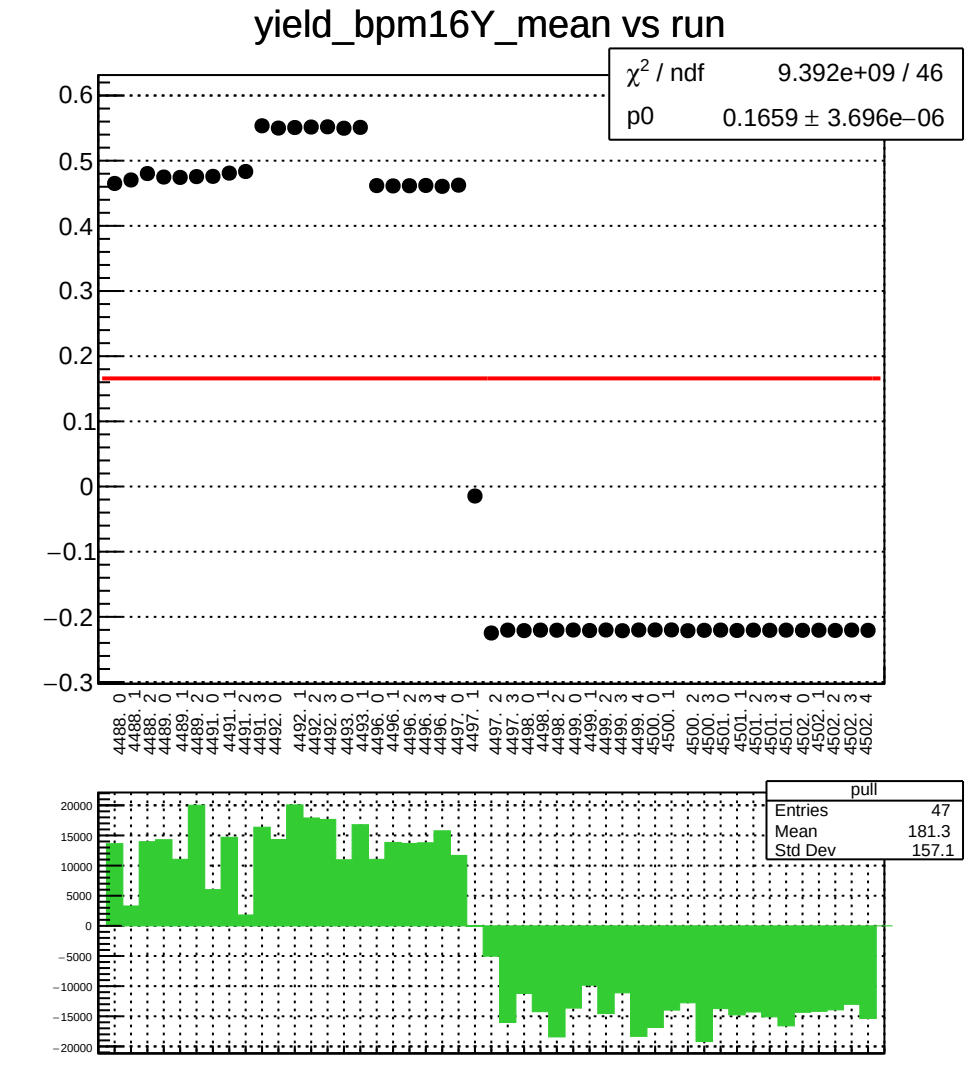

yield_bpm12Y_mean vs run
χ² / ndf 2.997e+08 / 46
p0 1.037 ± 1.179e−05
pull
Entries 47
Mean −5.01
Std Dev 24.66

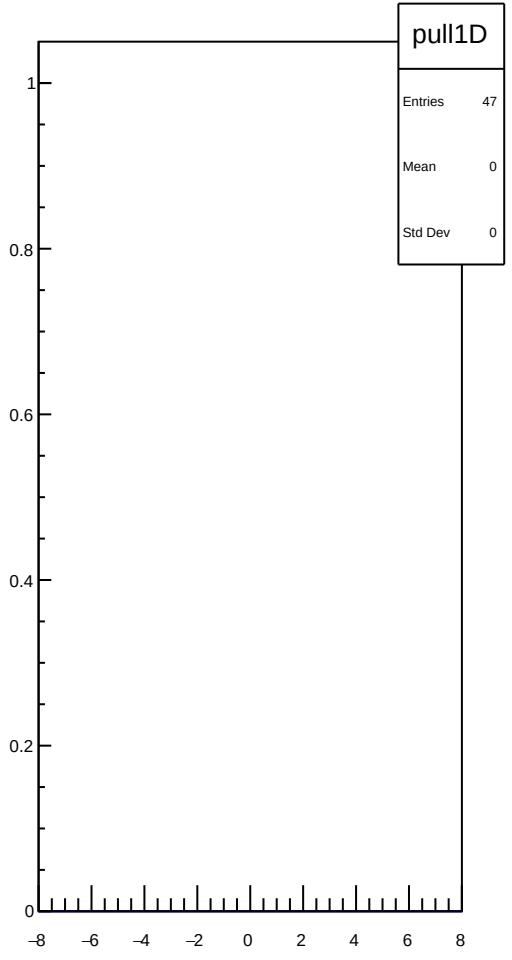

pull1D
Entries 47
Mean 0
Std Dev 0

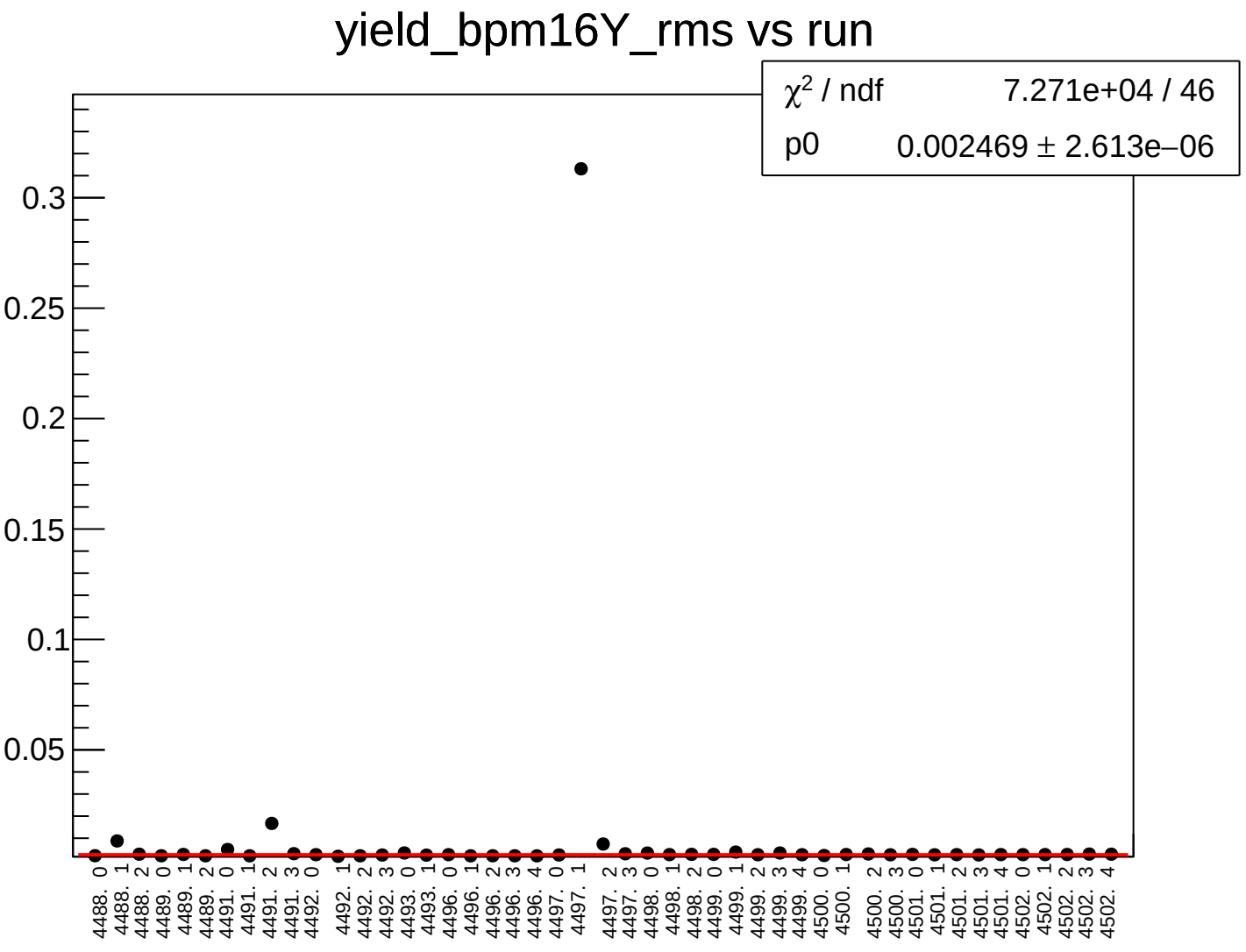

yield_bpm12Y_rms vs run
χ² / ndf 2.104e+05 / 46
p0 0.007246 ± 8.34e−06
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

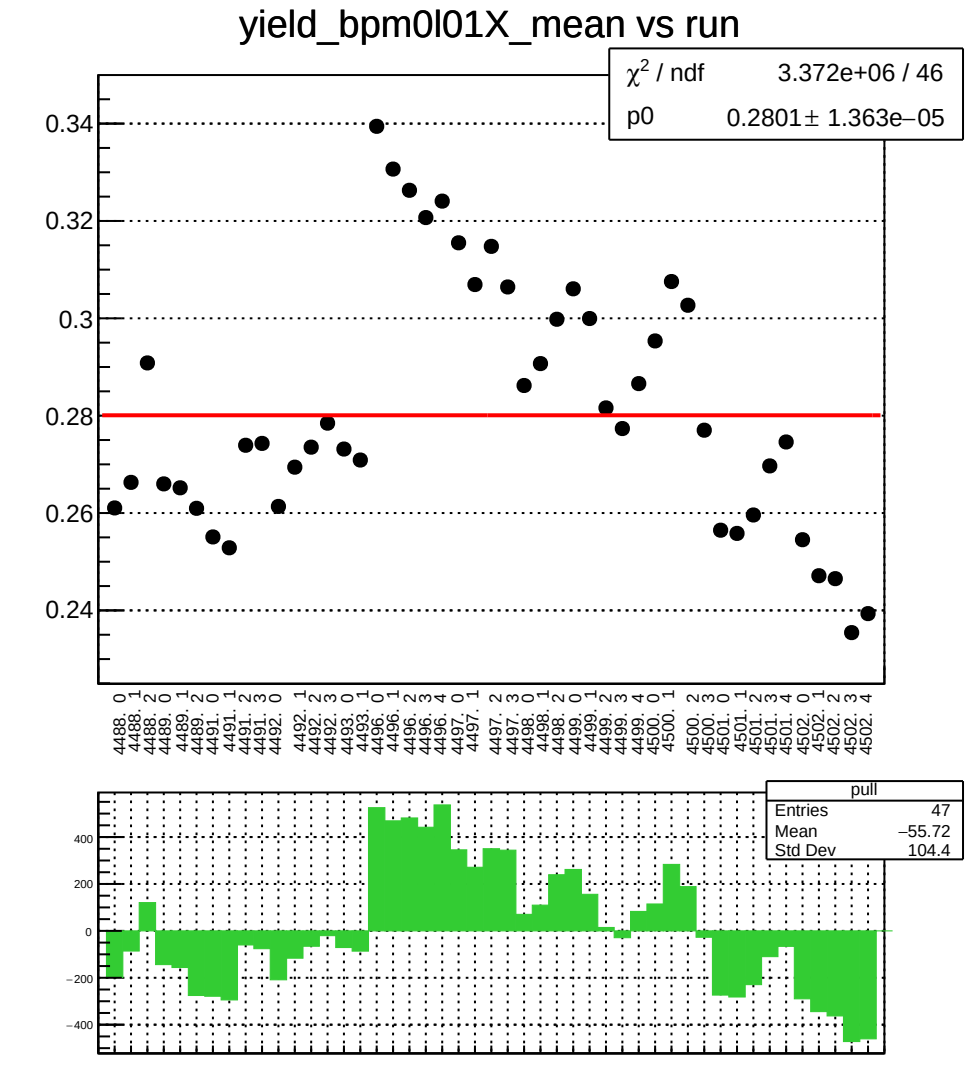

yield_bpm16X_mean vs run
χ² / ndf 4.753e+07 / 46
p0 −0.2285 ± 8.597e−06
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 3.463
Std Dev 28.19
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 47
Mean −5.232
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

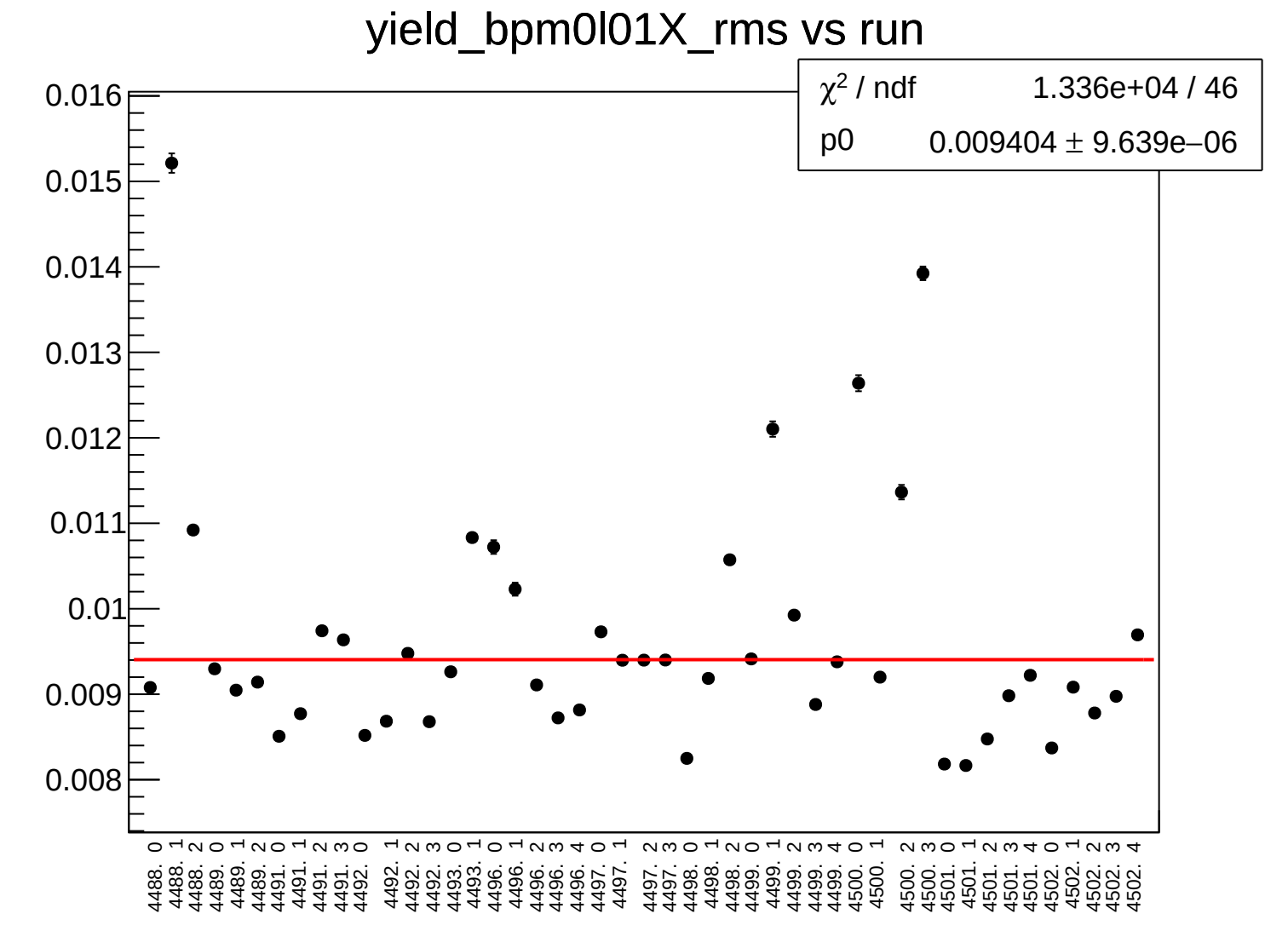

yield_bpm16X_rms vs run
χ² / ndf 1.45e+05 / 46
p0 0.005506 ± 6.079e−06
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

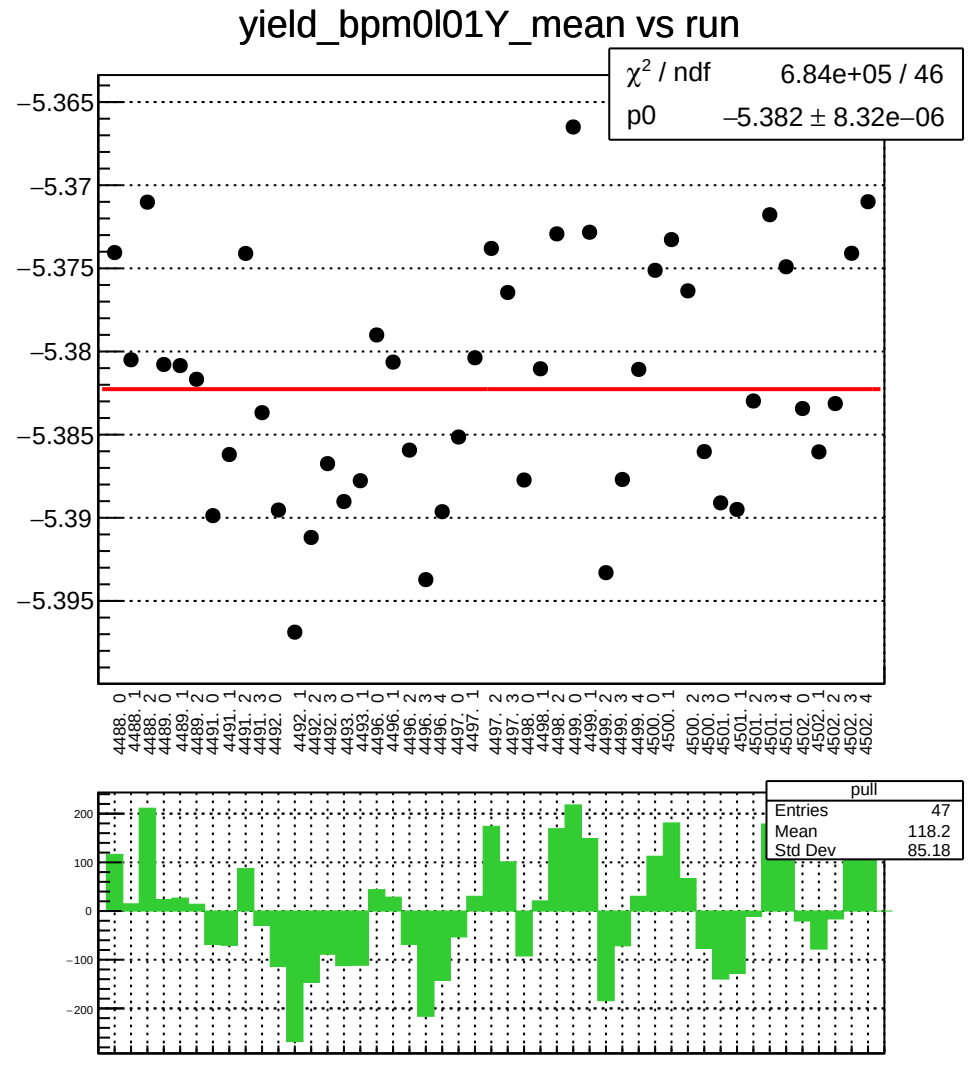

yield_bpm16Y_mean vs run
χ² / ndf 9.392e+09 / 46
p0 0.1659 ± 3.696e−06
pull
Entries 47
Mean 181.3
Std Dev 157.1

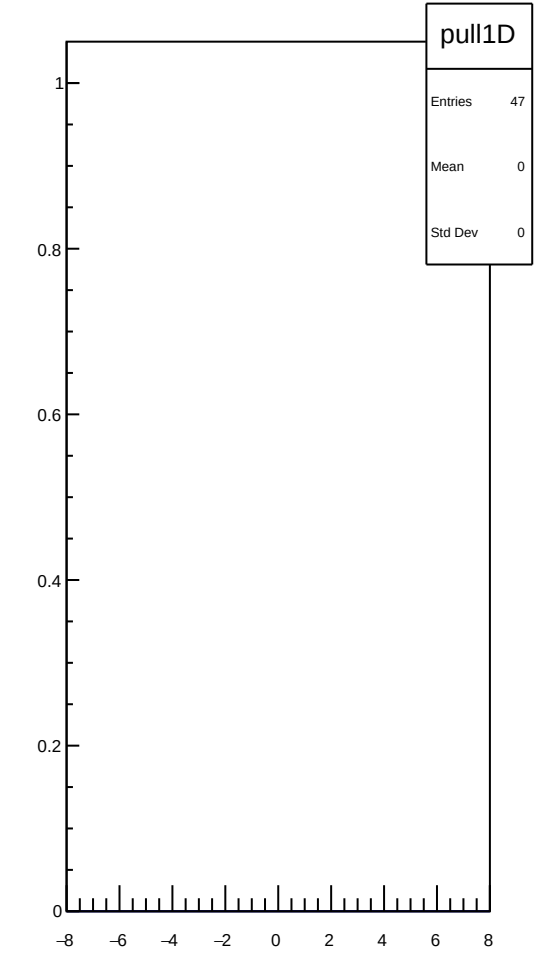

pull1D
Entries 47
Mean 0
Std Dev 0

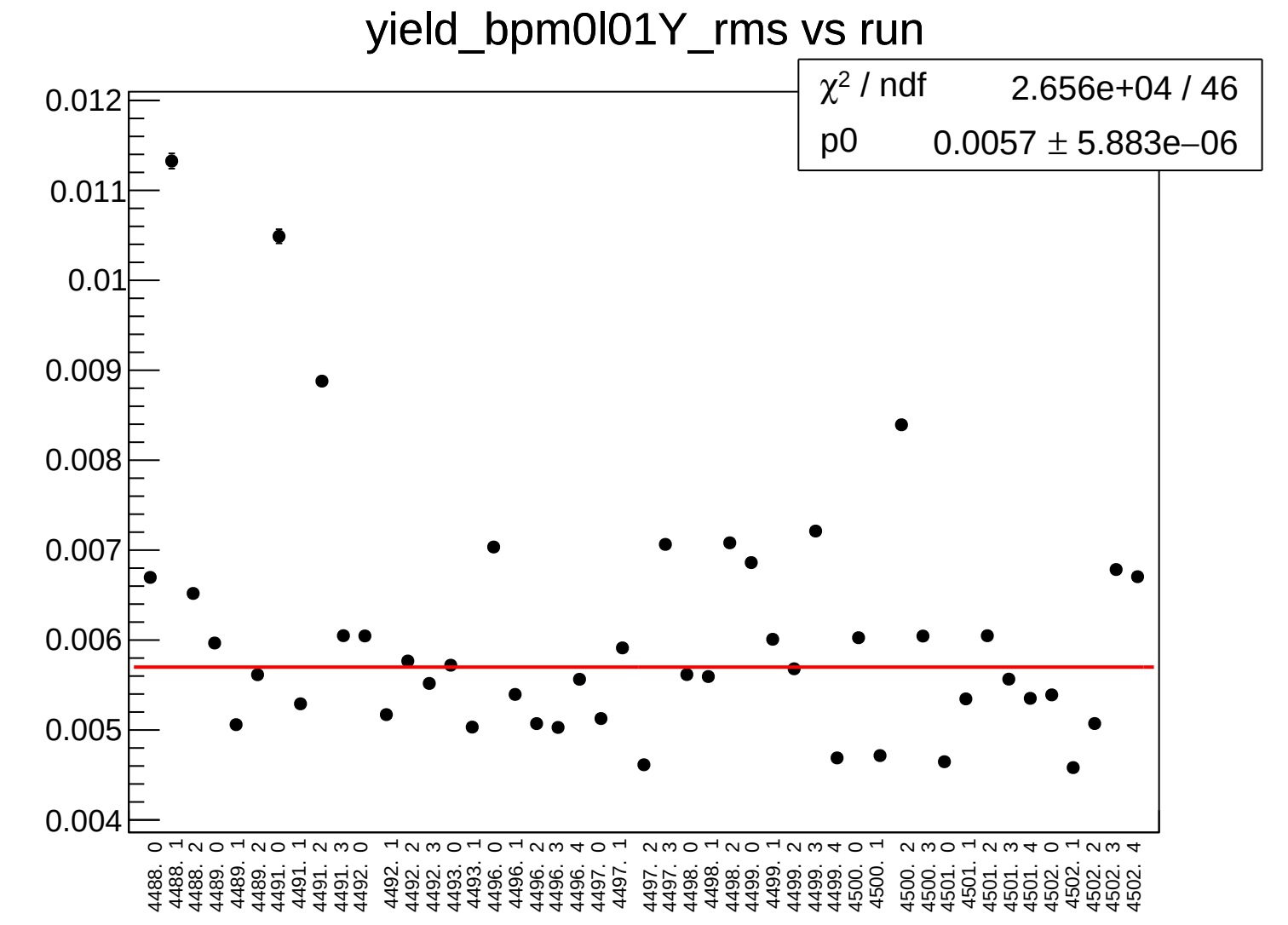

yield_bpm16Y_rms vs run
χ² / ndf 7.271e+04 / 46
p0 0.002469 ± 2.613e−06
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

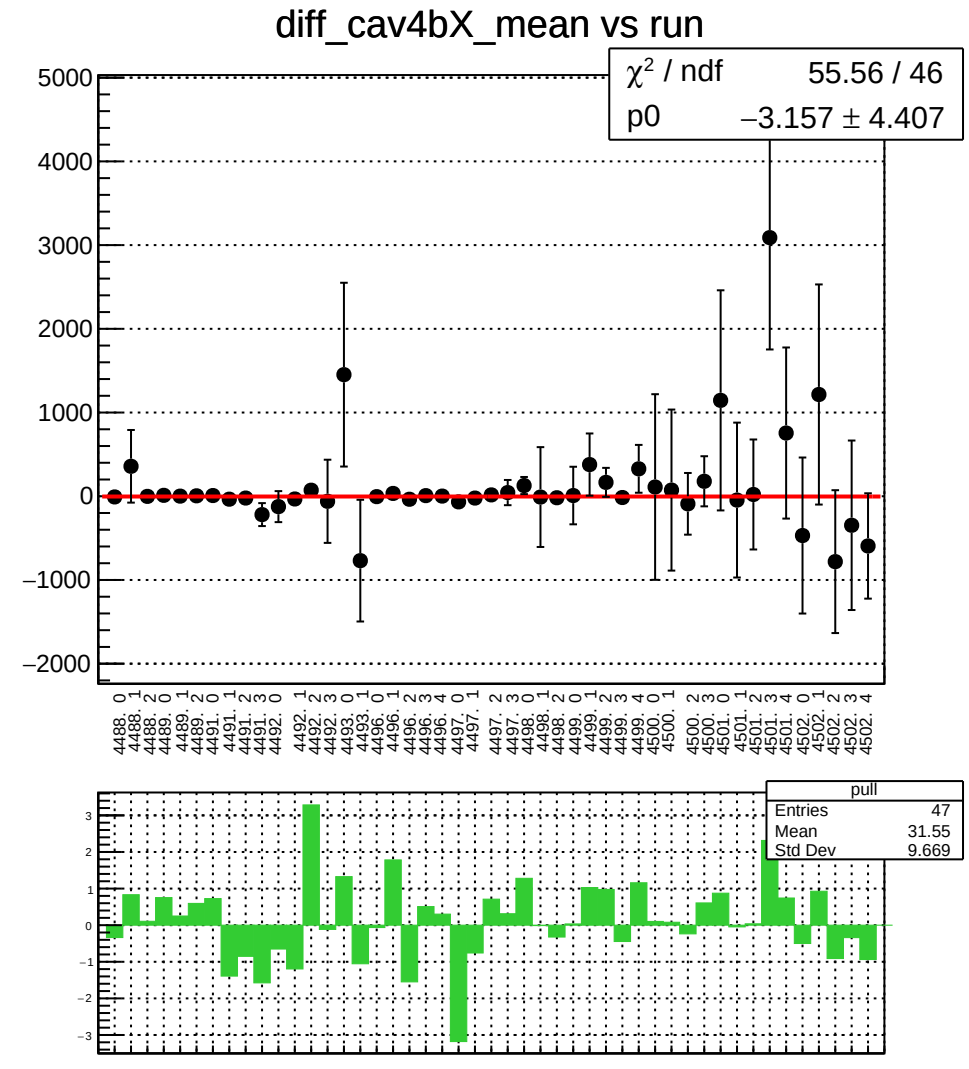

yield_bpm0l01X_mean vs run
χ² / ndf 3.372e+06 / 46
p0 0.2801 ± 1.363e−05
0.34
0.32
0.3
0.28
0.26
0.24
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −55.72
Std Dev 104.4
400
200
0
−200
−400
pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

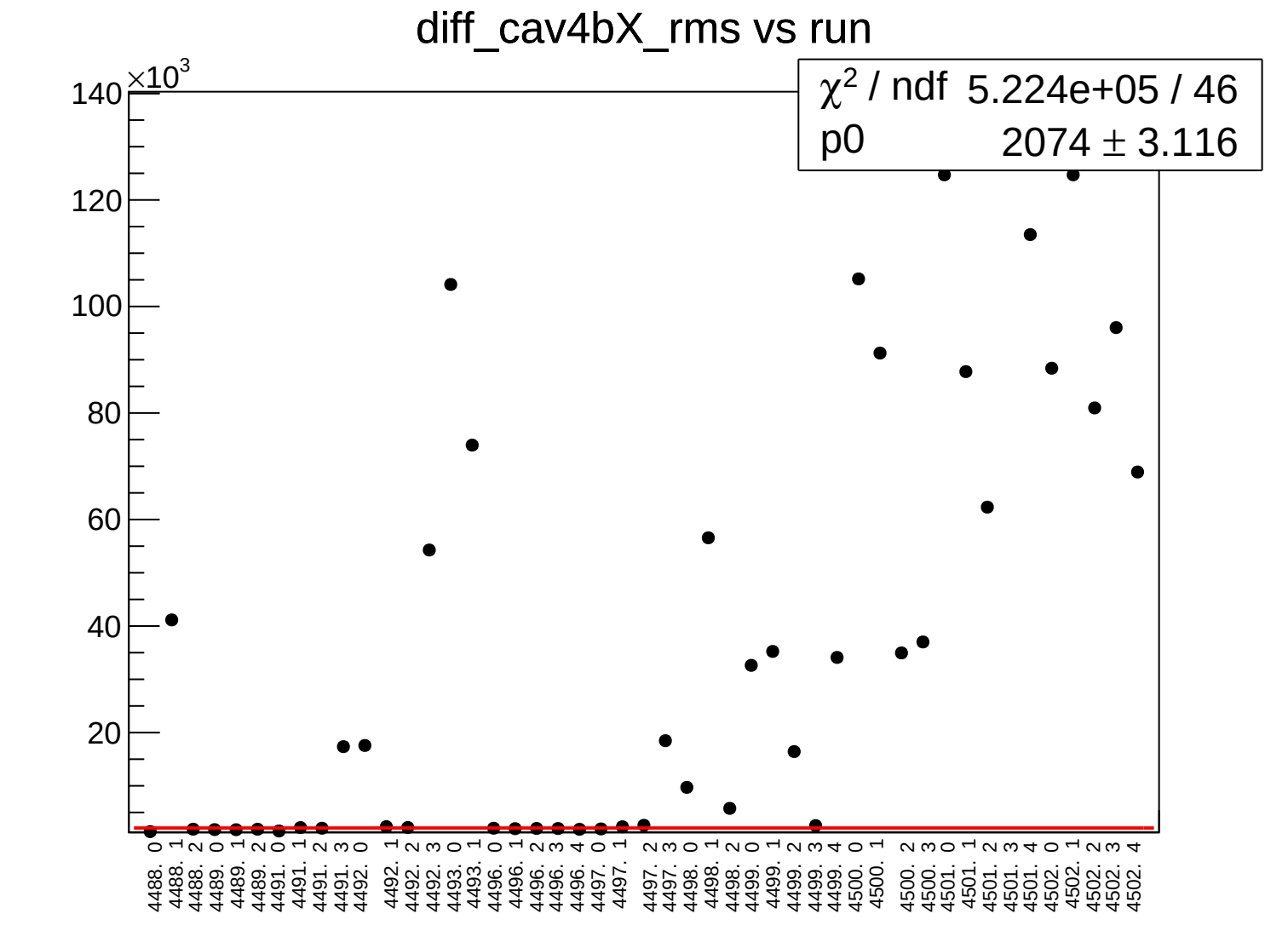

yield_bpm0l01X_rms vs run
χ² / ndf 1.336e+04 / 46
p0 0.009404 ± 9.639e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

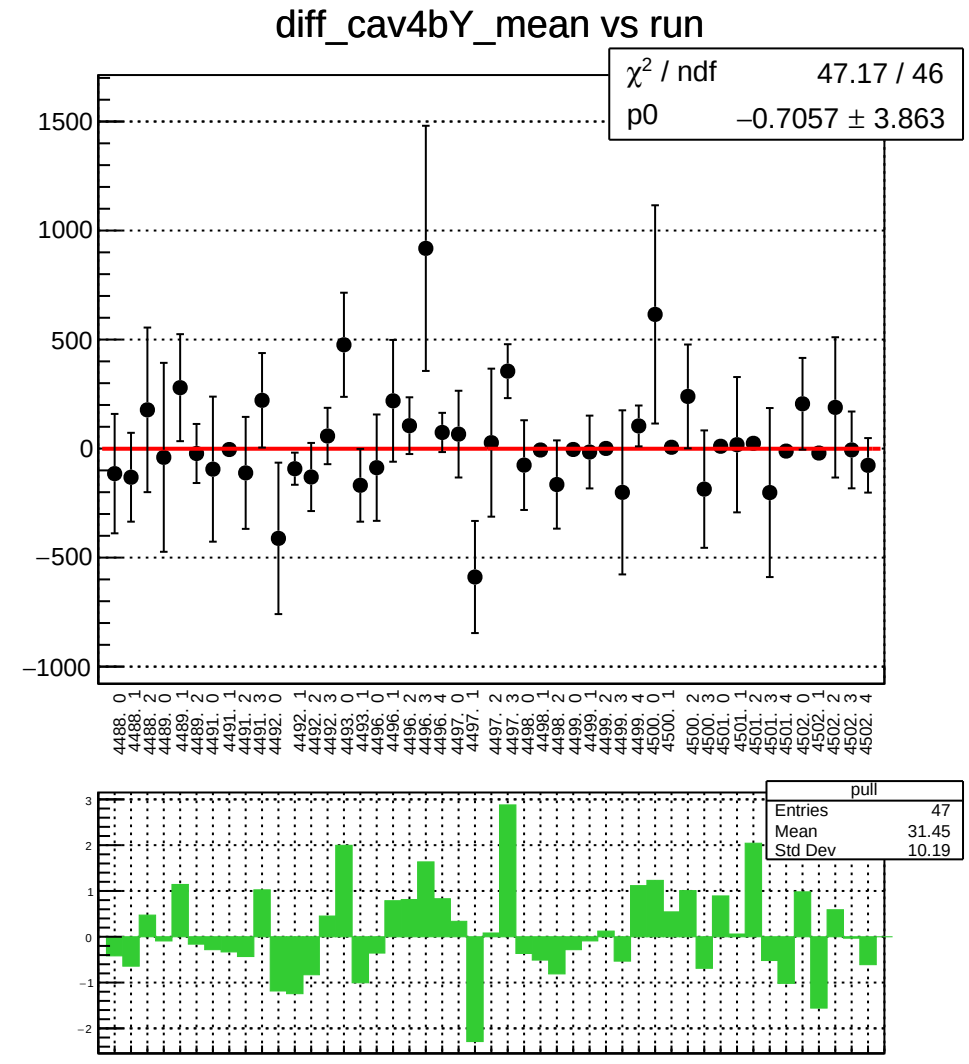

yield_bpm0l01Y_mean vs run
χ² / ndf 6.84e+05 / 46
p0 −5.382 ± 8.32e−06
−5.365
−5.37
−5.375
−5.38
−5.385
−5.39
−5.395
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 118.2
Std Dev 85.18
200
100
0
−100
−200

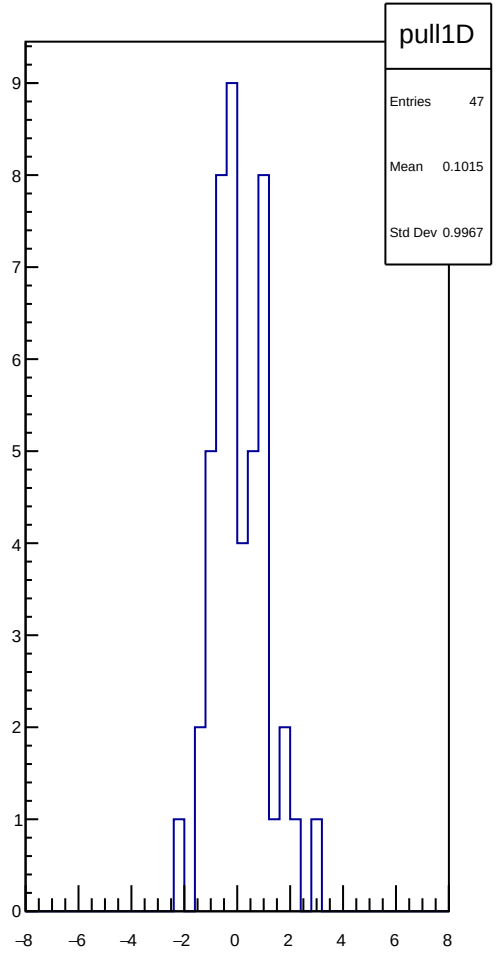

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

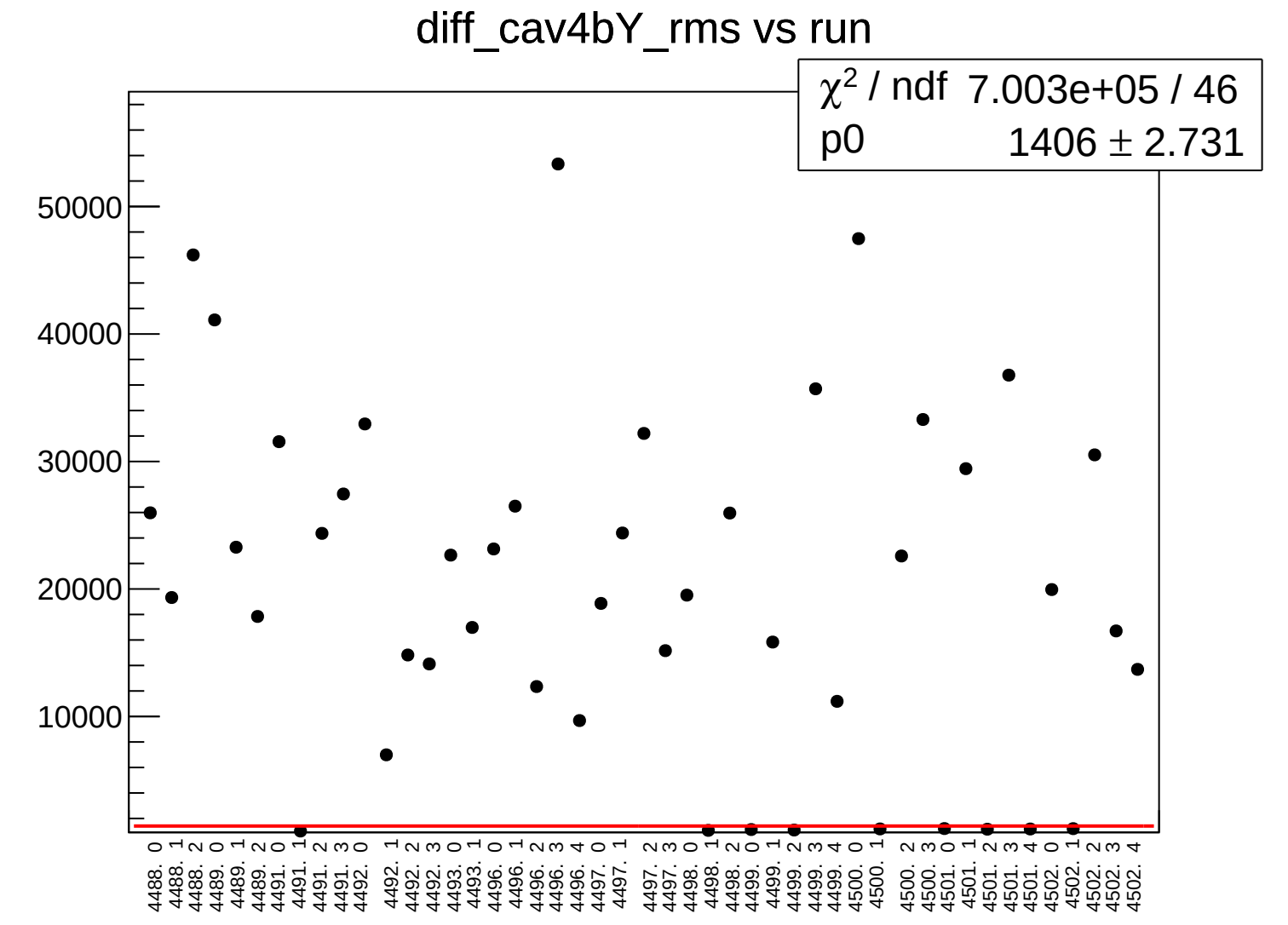

yield_bpm0l01Y_rms vs run
χ² / ndf 2.656e+04 / 46
p0 0.0057 ± 5.883e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

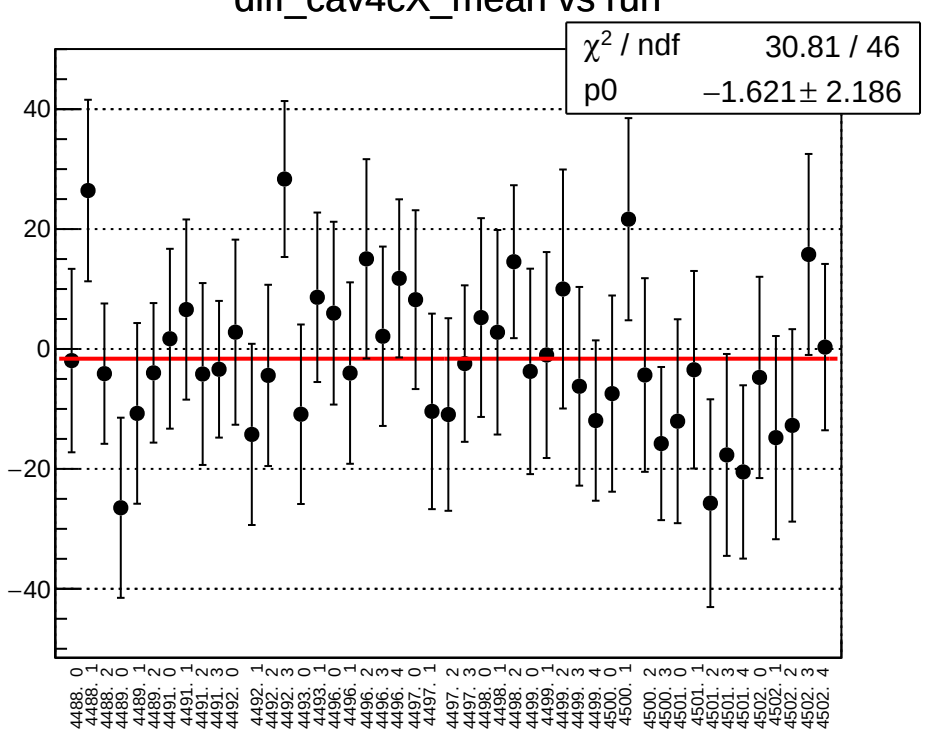

diff_cav4bX_mean vs run
χ² / ndf 55.56 / 46
p0 −3.157 ± 4.407
5000
4000
3000
2000
1000
0
−1000
−2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 31.55
Std Dev 9.669
3
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean 0.1101
Std Dev 1.082
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

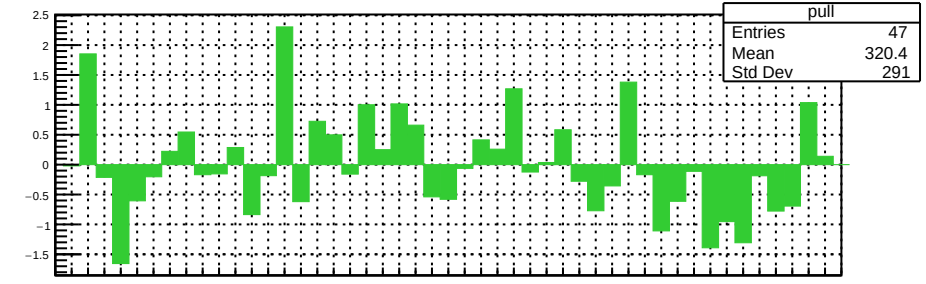

diff_cav4bX_rms vs run
χ^2 / ndf 5.224e+05 / 46
p0 2074 ± 3.116
×10^3
140
120
100
80
60
40
20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

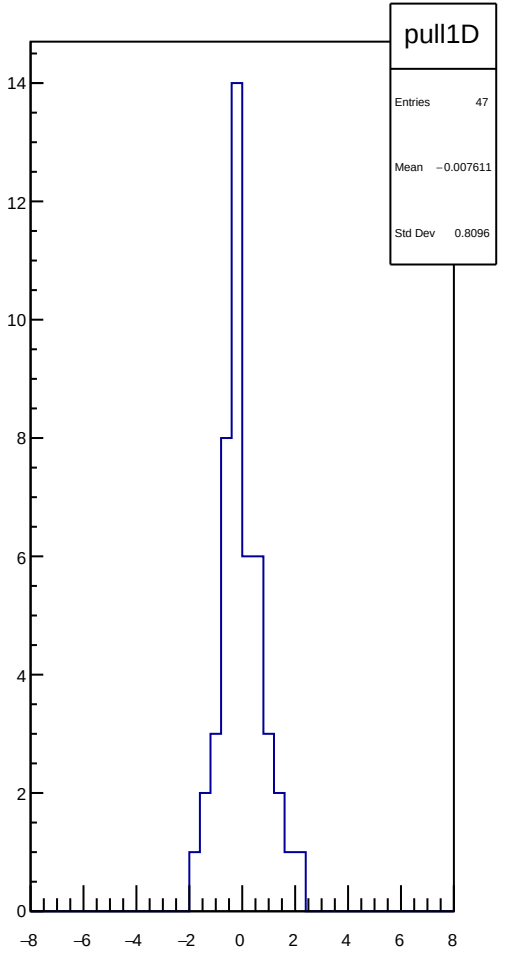

diff_cav4bY_mean vs run
χ² / ndf 47.17 / 46
p0 −0.7057 ± 3.863
1500
1000
500
0
−500
−1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 31.45
Std Dev 10.19
3
2
1
0
−1
−2

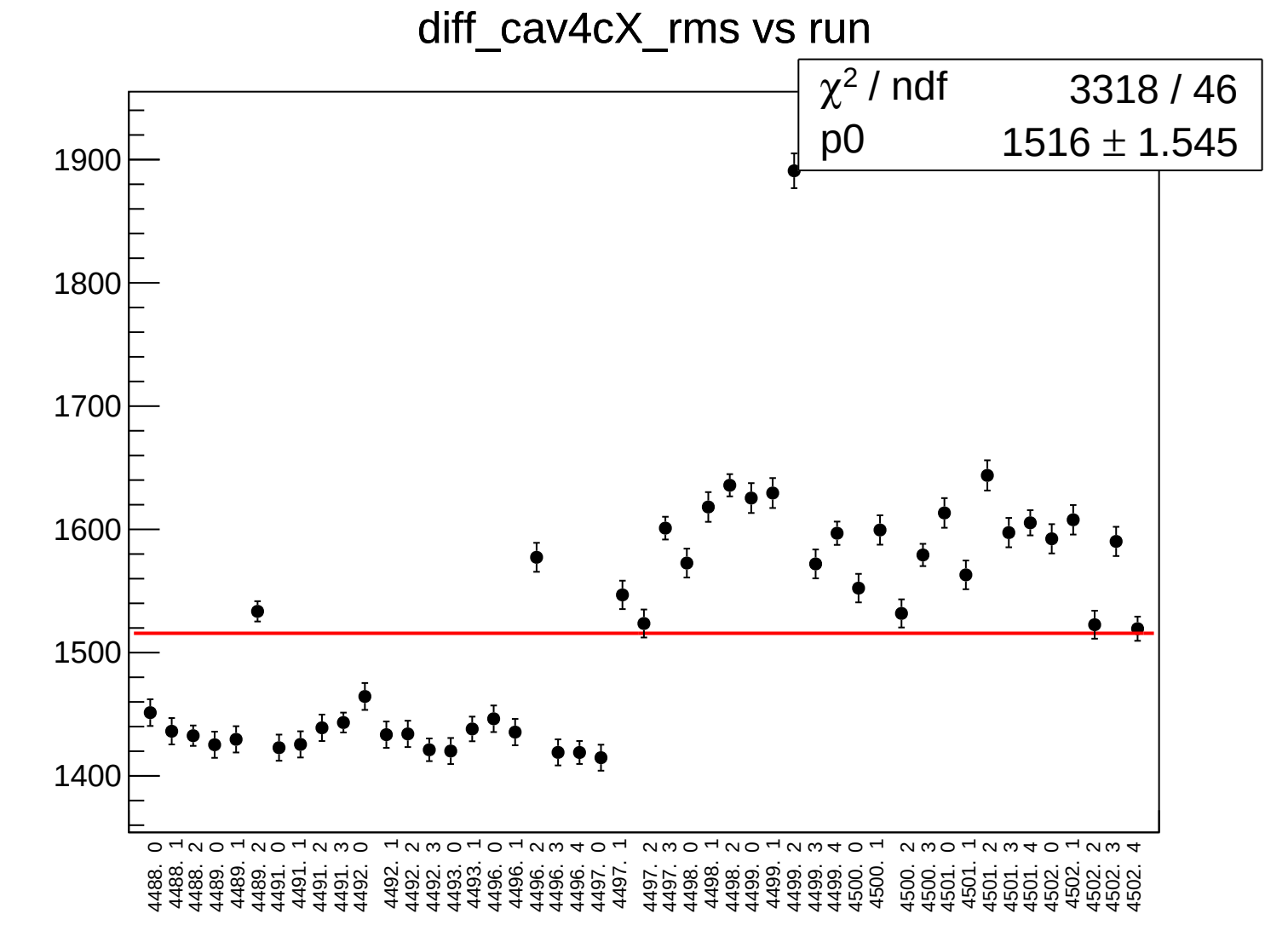

pull1D
Entries 47
Mean 0.1015
Std Dev 0.9967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

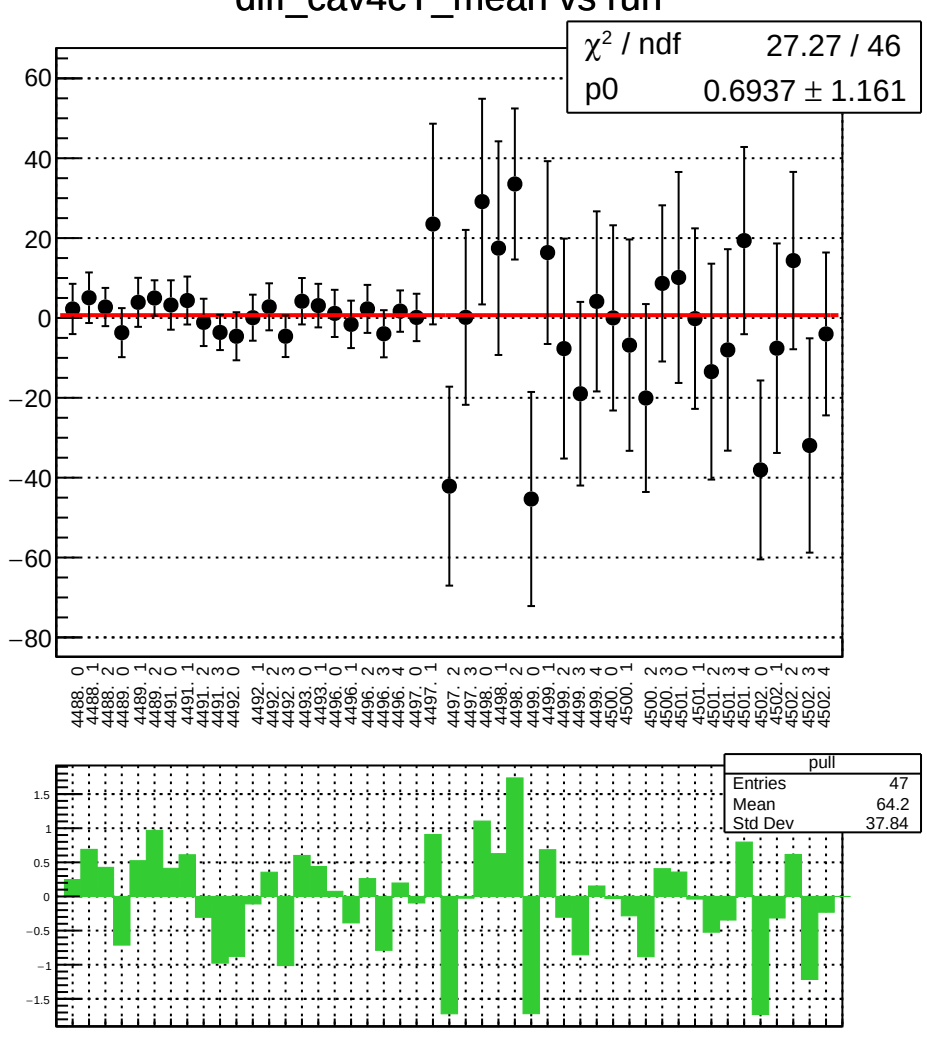

diff_cav4bY_rms vs run
χ² / ndf 7.003e+05 / 46
p0 1406 ± 2.731
50000
40000
30000
20000
10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

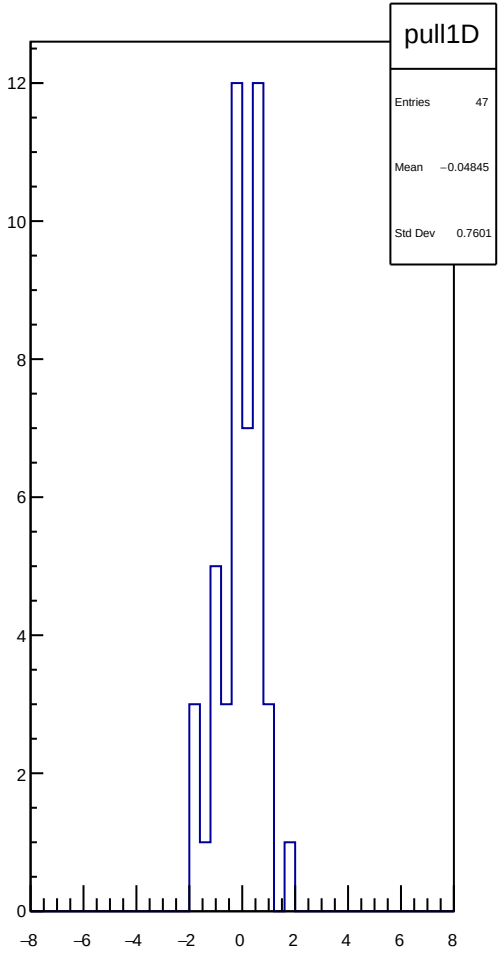

diff_cav4cX_mean vs run
χ² / ndf 30.81 / 46
p0 −1.621± 2.186
40
20
0
−20
−40
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

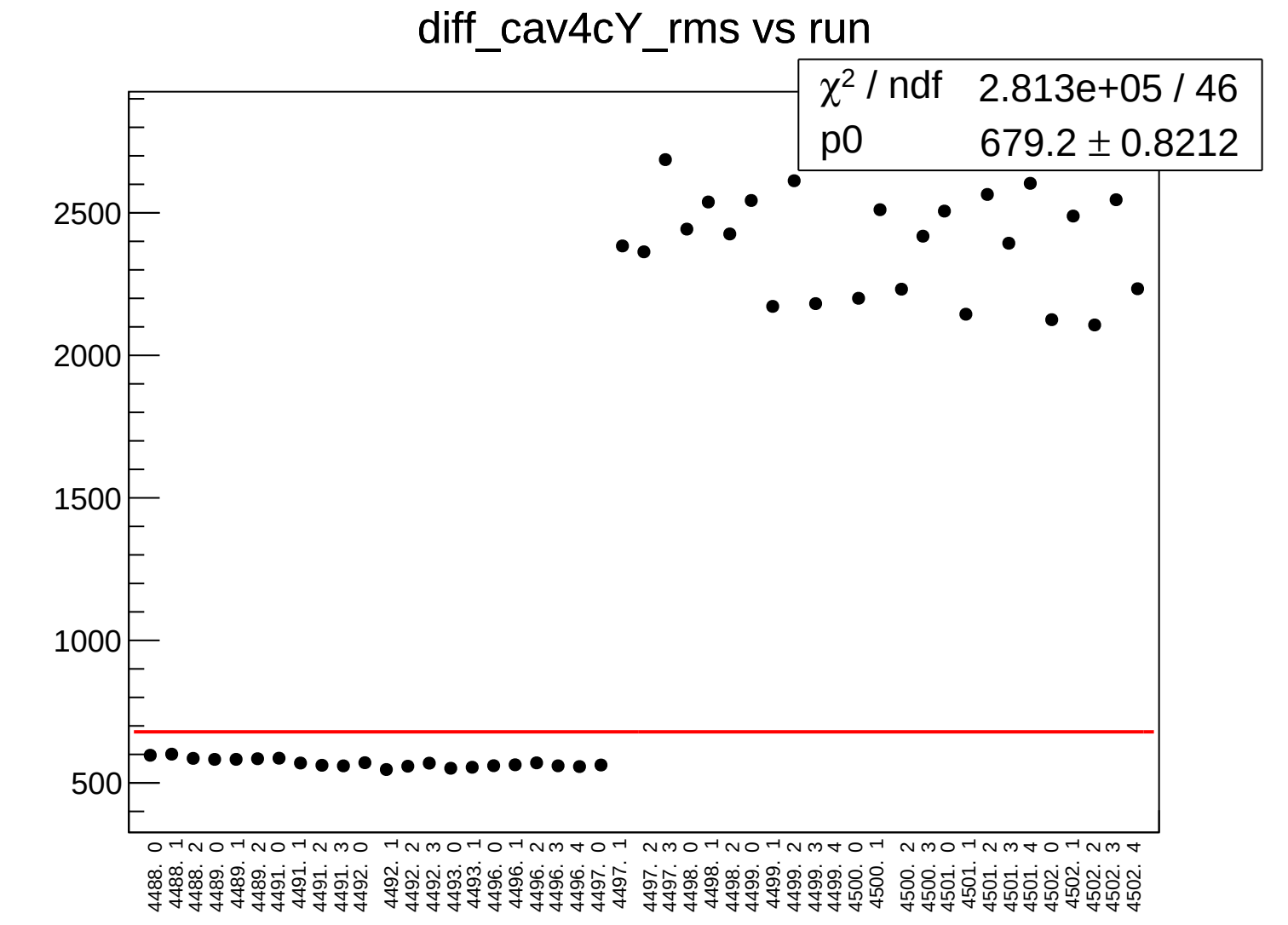

pull
Entries 47
Mean 320.4
Std Dev 291
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

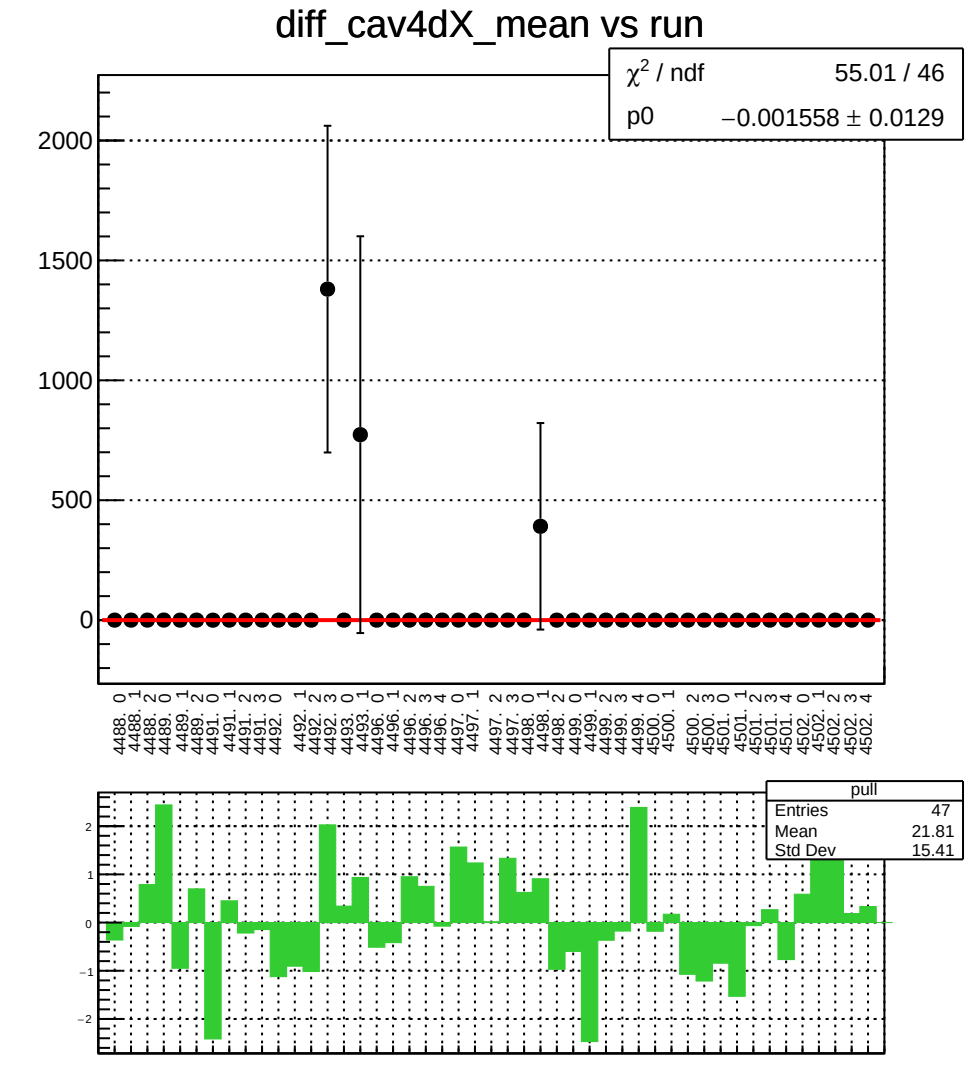

pull1D
Entries 47
Mean −0.007611
Std Dev 0.8096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

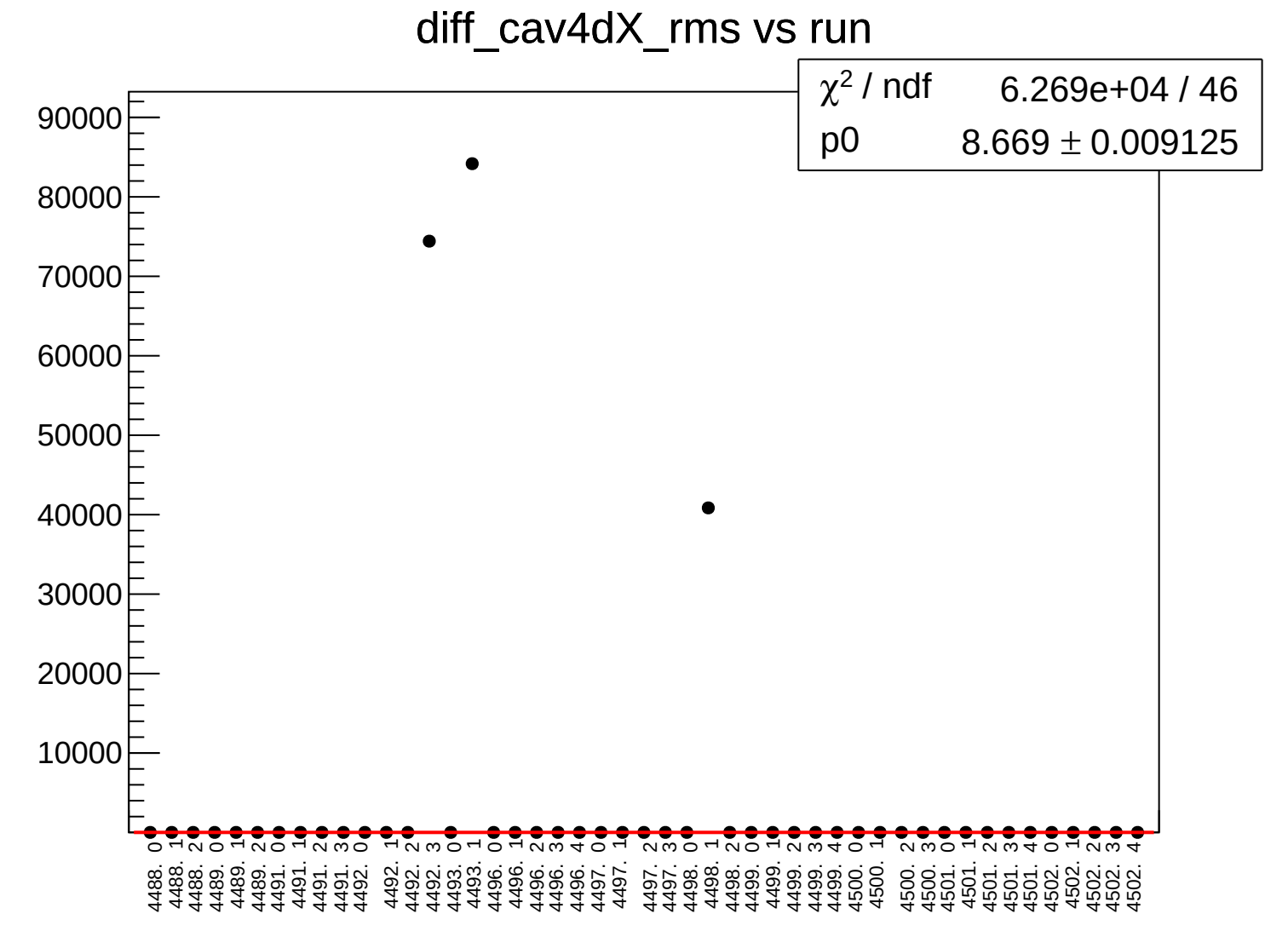

diff_cav4cX_rms vs run
χ² / ndf 3318 / 46
p0 1516 ± 1.545
1900
1800
1700
1600
1500
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

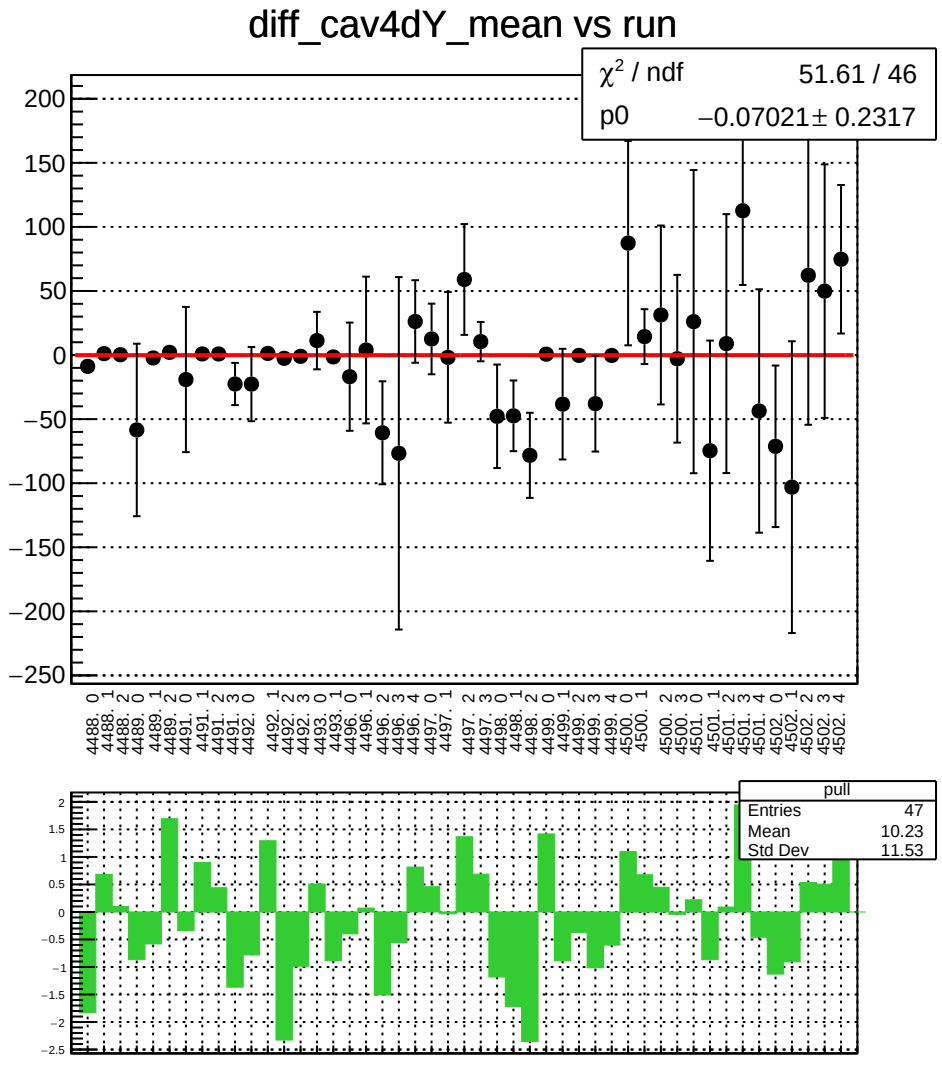

diff_cav4cY_mean vs run
χ² / ndf 27.27 / 46
p0 0.6937 ± 1.161
pull
Entries 47
Mean 64.2
Std Dev 37.84

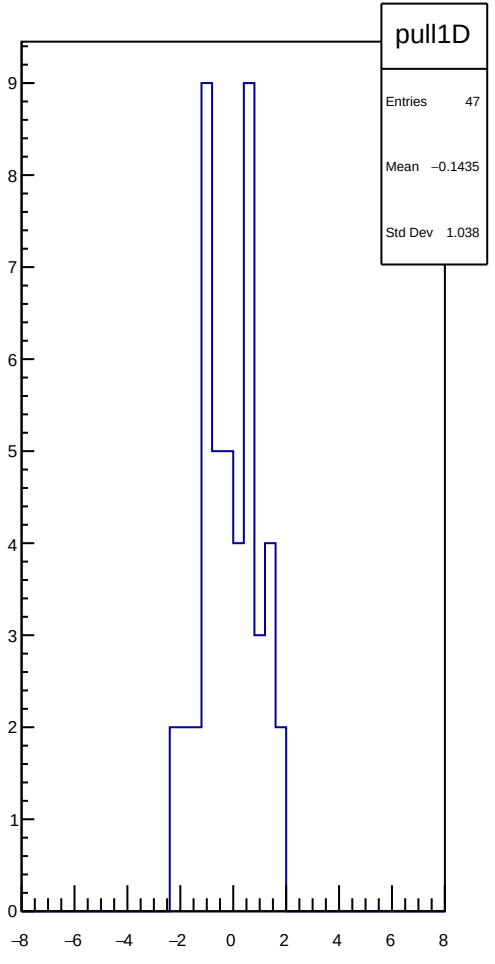

pull1D
Entries 47
Mean −0.04845
Std Dev 0.7601

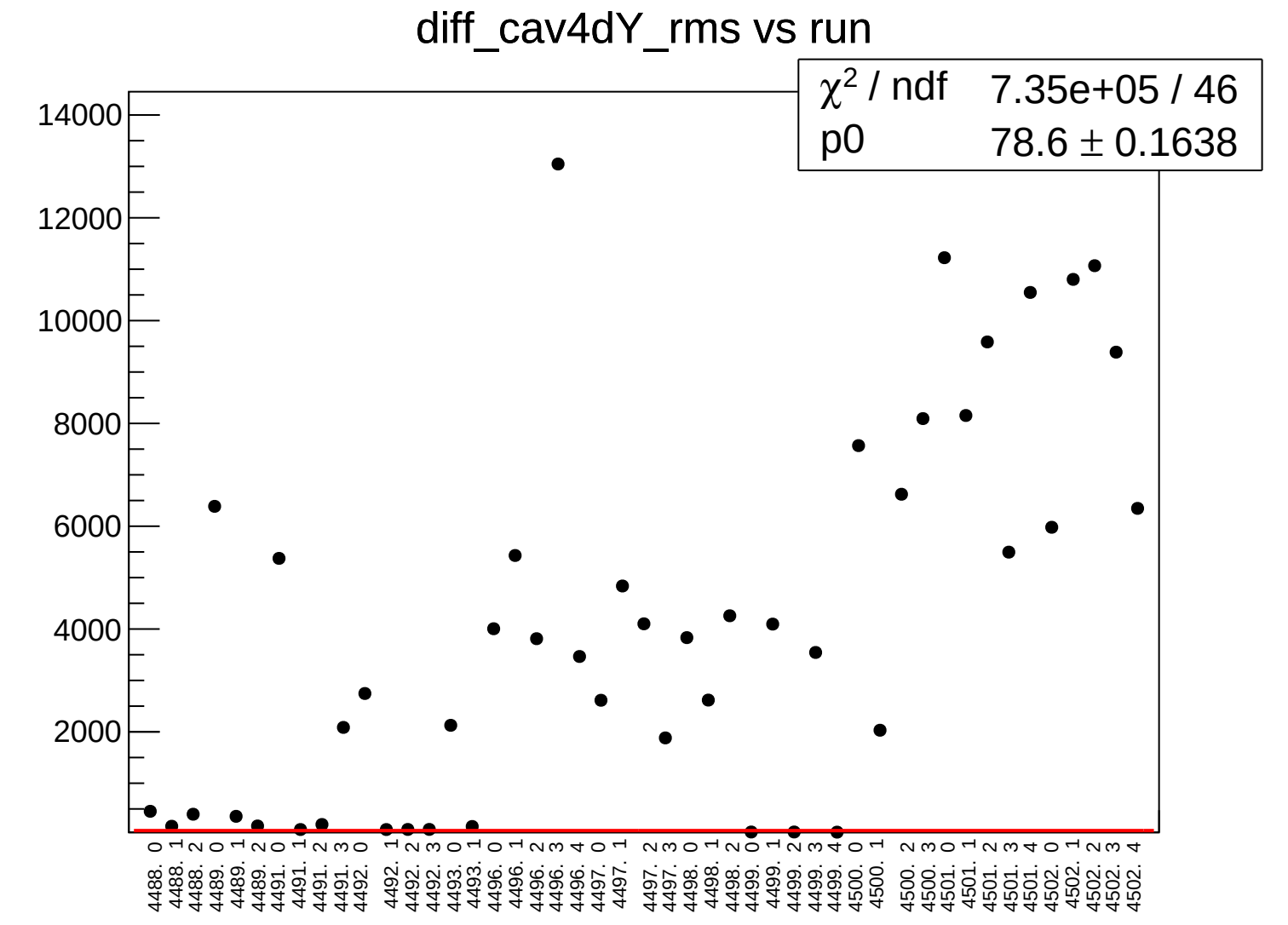

diff_cav4cY_rms vs run
χ² / ndf 2.813e+05 / 46
p0 679.2 ± 0.8212
2500
2000
1500
1000
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

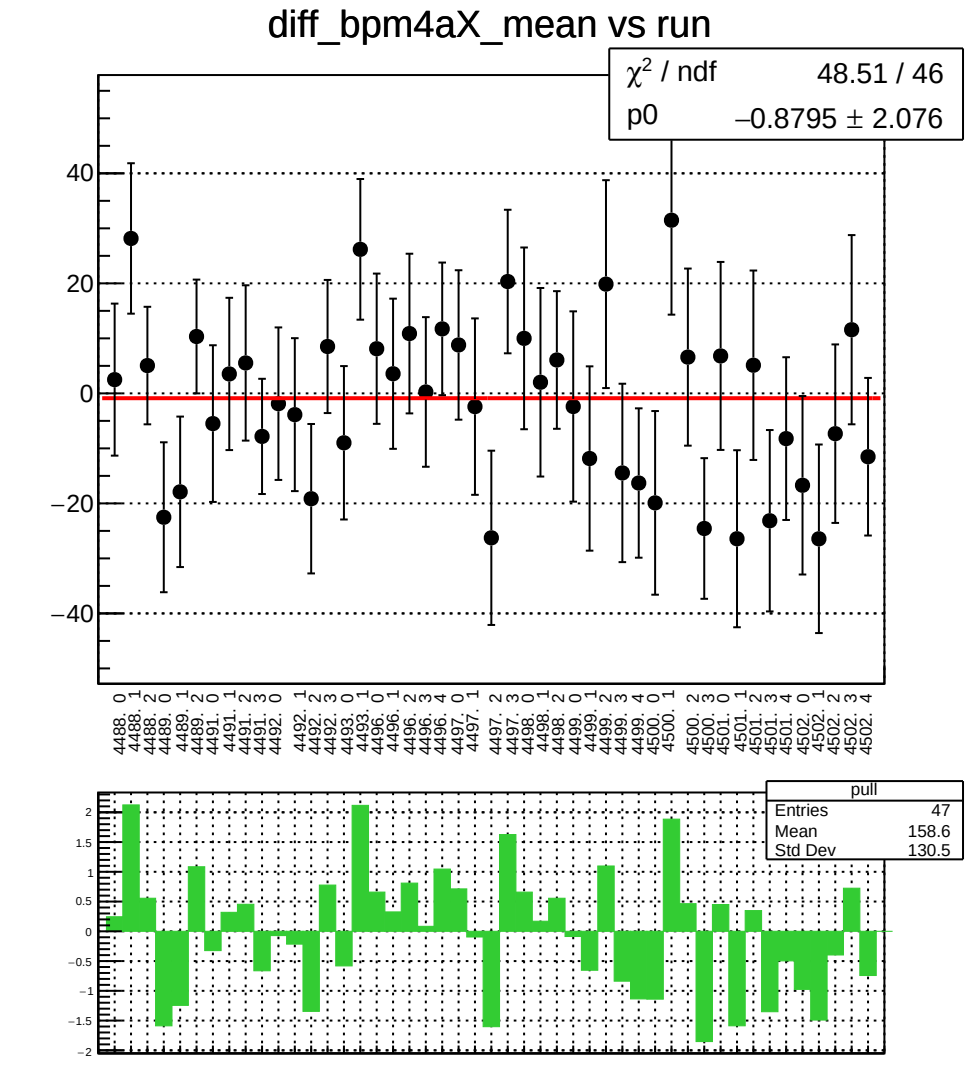

diff_cav4dX_mean vs run
χ² / ndf 55.01 / 46
p0 −0.001558 ± 0.0129
2000
1500
1000
500
0
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 21.81
Std Dev 15.41
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.06859
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

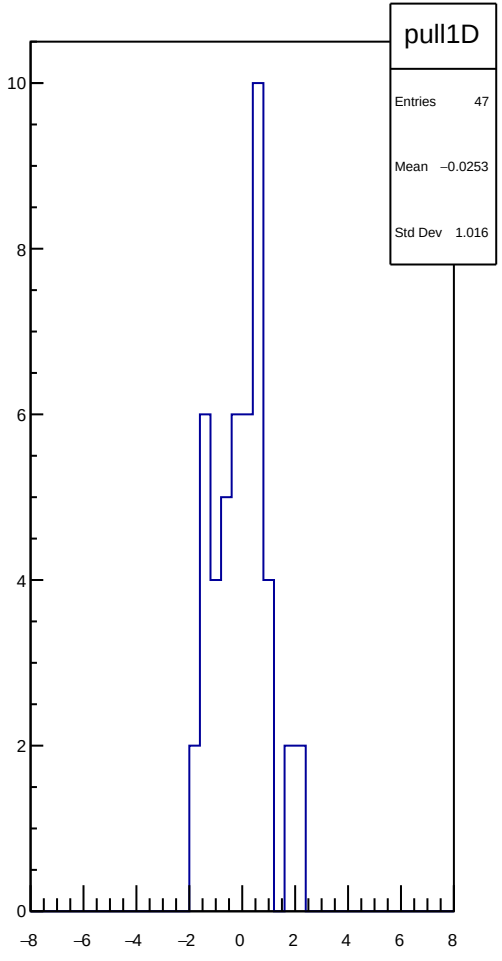

diff_cav4dX_rms vs run
χ^2 / ndf 6.269e+04 / 46
p0 8.669 ± 0.009125
90000
80000
70000
60000
50000
40000
30000
20000
10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

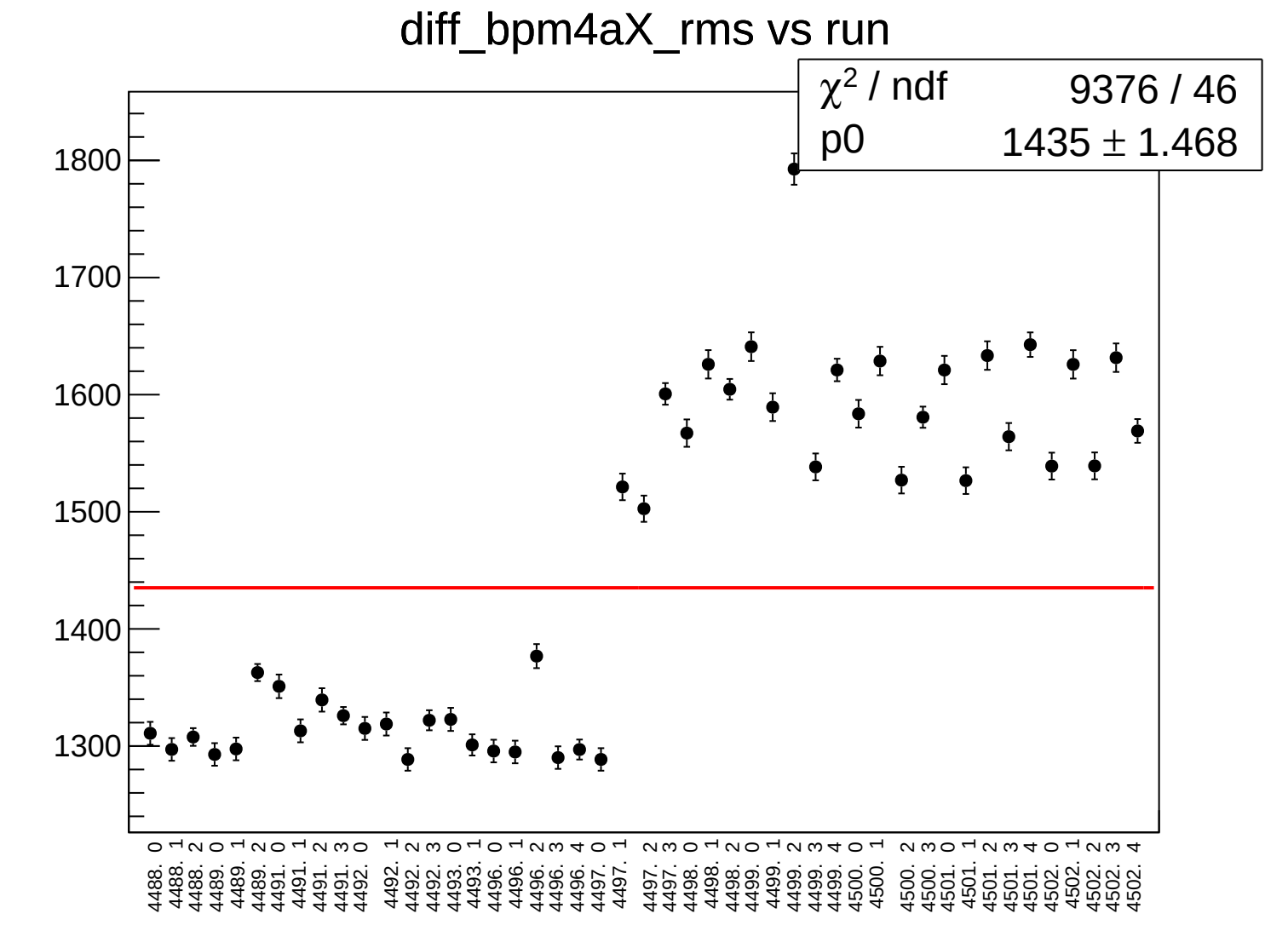

diff_cav4dY_mean vs run
χ² / ndf 51.61 / 46
p0 −0.07021± 0.2317
pull
Entries 47
Mean 10.23
Std Dev 11.53

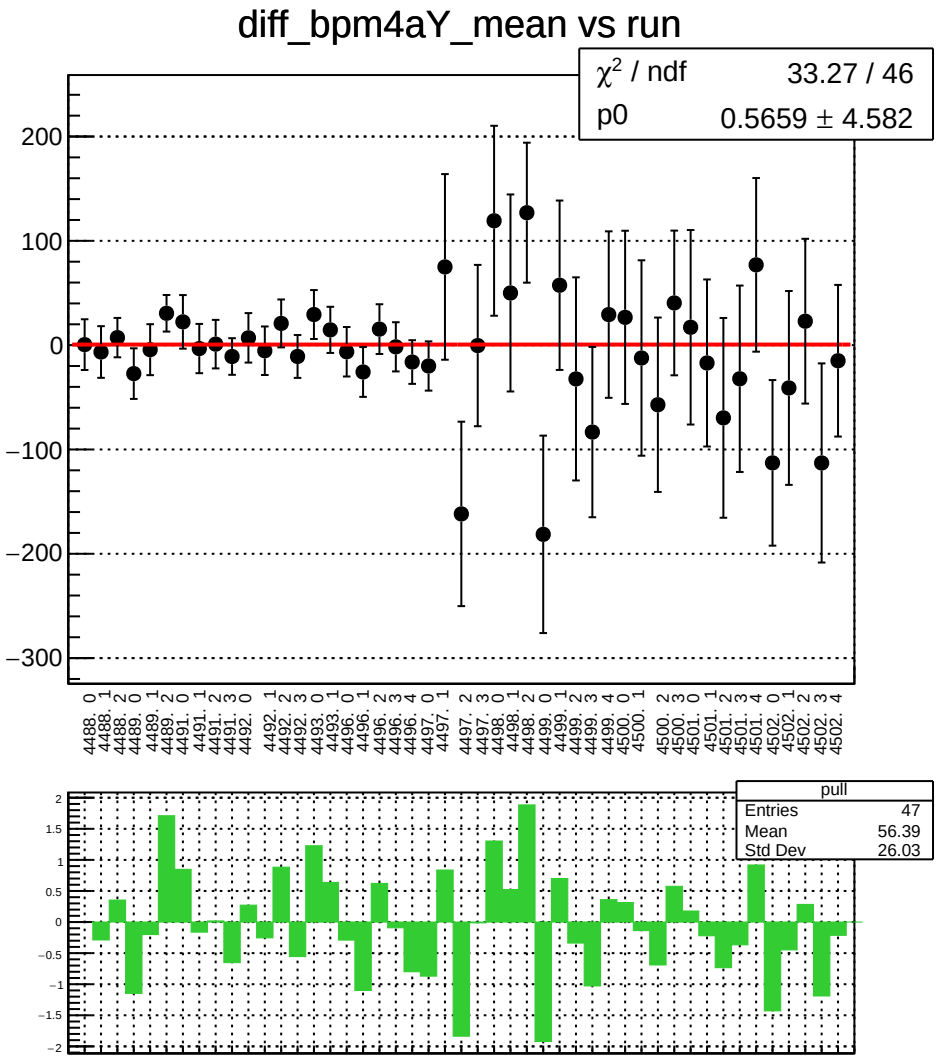

pull1D
Entries 47
Mean −0.1435
Std Dev 1.038

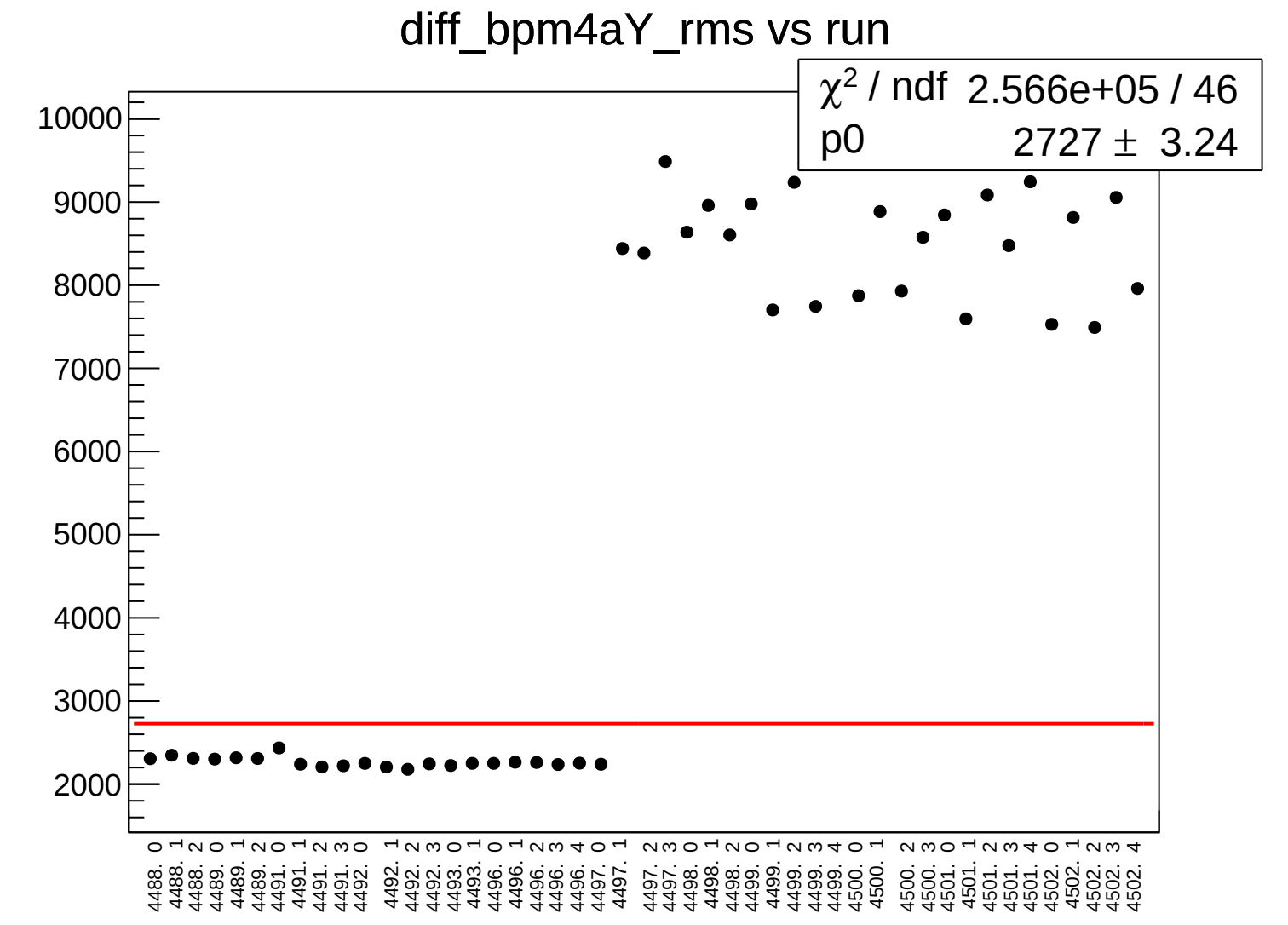

diff_cav4dY_rms vs run
χ^2 / ndf 7.35e+05 / 46
p0 78.6 ± 0.1638
14000
12000
10000
8000
6000
4000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

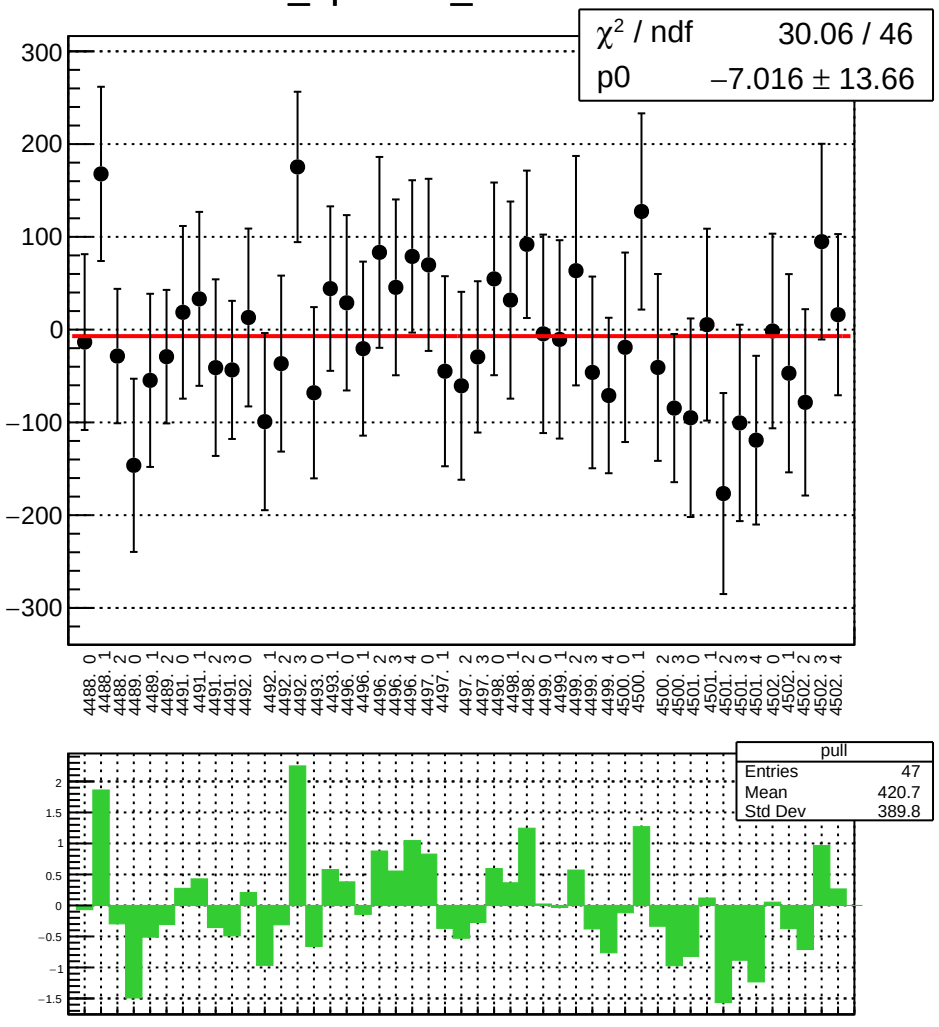

diff_bpm4aX_mean vs run
χ² / ndf 48.51 / 46
p0 −0.8795 ± 2.076
pull
Entries 47
Mean 158.6
Std Dev 130.5

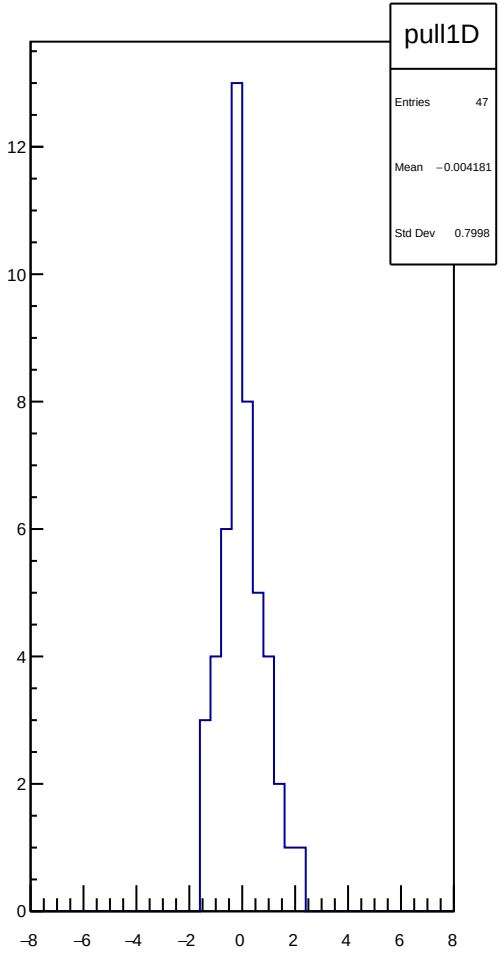

pull1D
Entries 47
Mean −0.0253
Std Dev 1.016

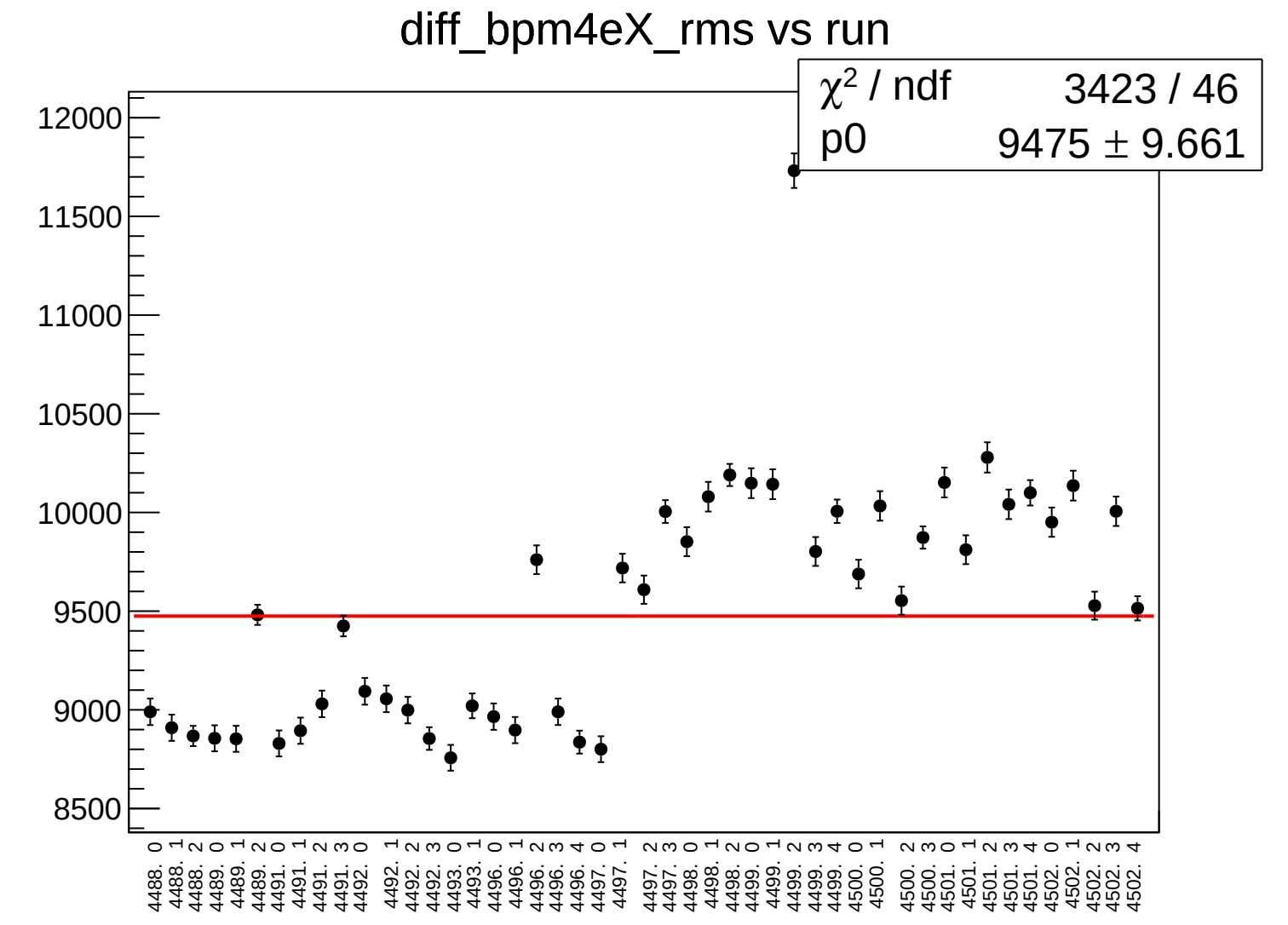

diff_bpm4aX_rms vs run
χ² / ndf 9376 / 46
p0 1435 ± 1.468
1800
1700
1600
1500
1400
1300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

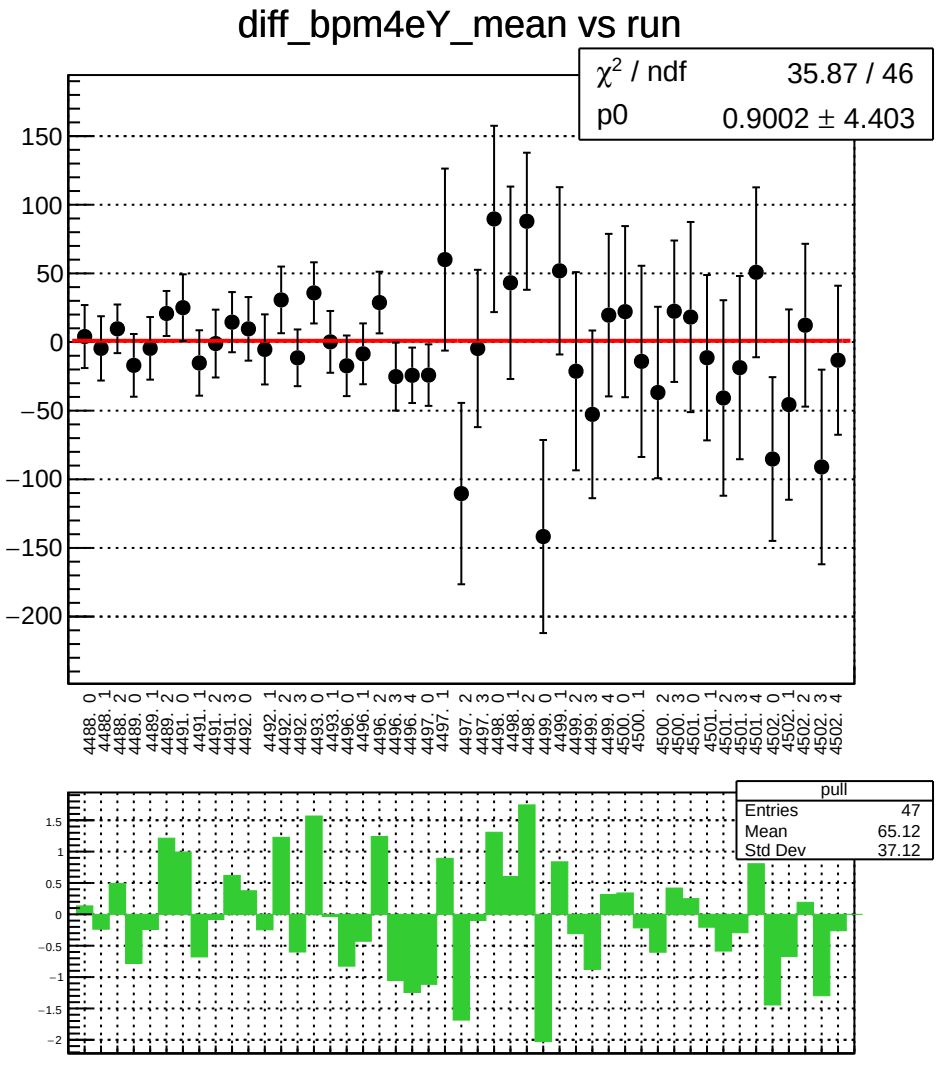

diff_bpm4aY_mean vs run
χ² / ndf 33.27 / 46
p0 0.5659 ± 4.582
200
100
0
−100
−200
−300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 56.39
Std Dev 26.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.05389
Std Dev 0.8397
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

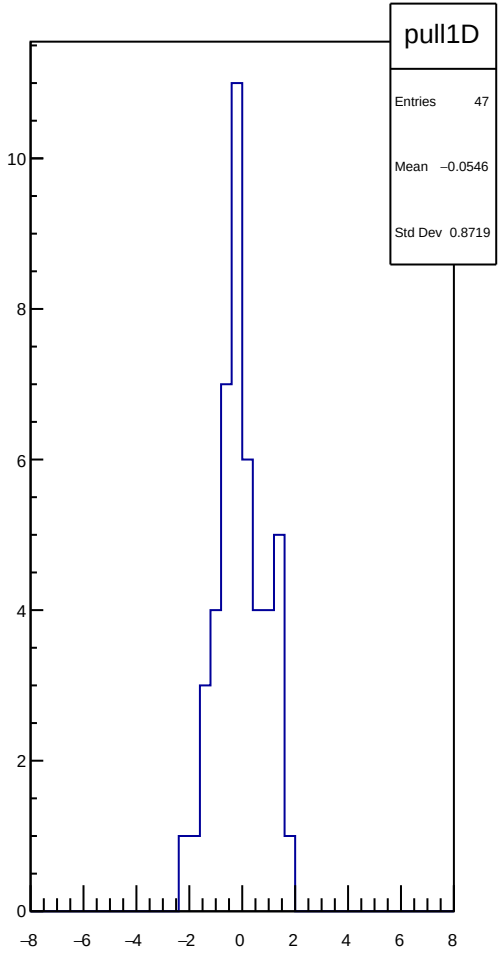

diff_bpm4aY_rms vs run
χ² / ndf 2.566e+05 / 46
p0 2727 ± 3.24
10000
9000
8000
7000
6000
5000
4000
3000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

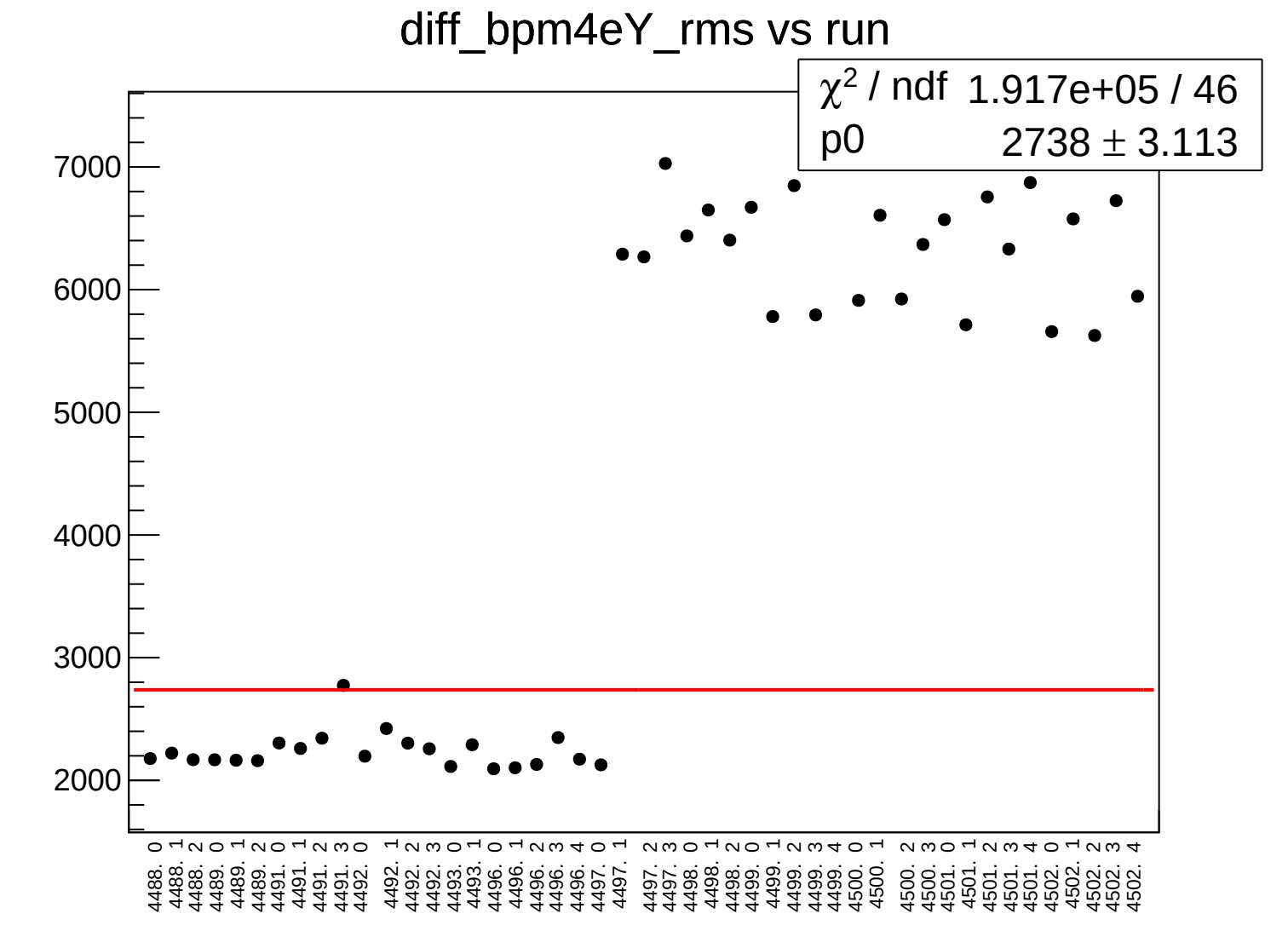

diff_bpm4eX_mean vs run
χ² / ndf 30.06 / 46
p0 −7.016 ± 13.66
pull
Entries 47
Mean 420.7
Std Dev 389.8

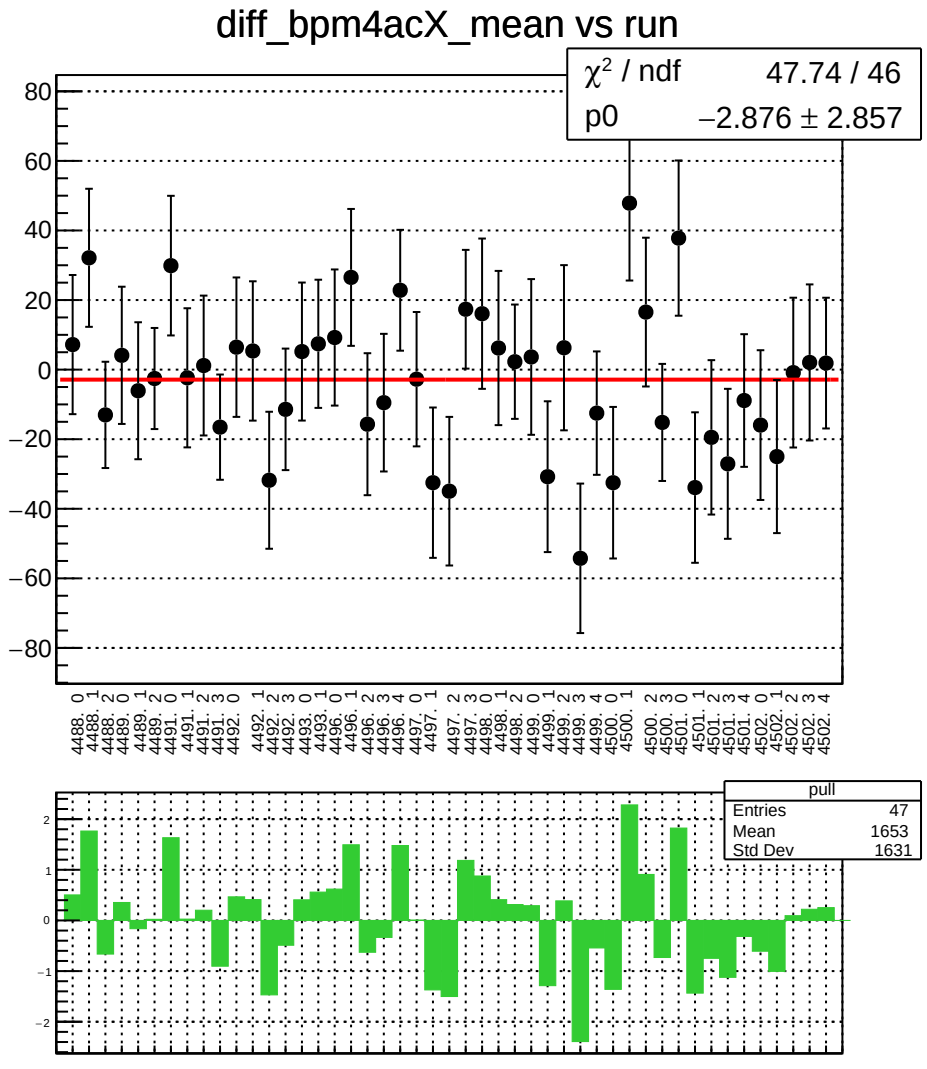

pull1D
Entries 47
Mean −0.004181
Std Dev 0.7998

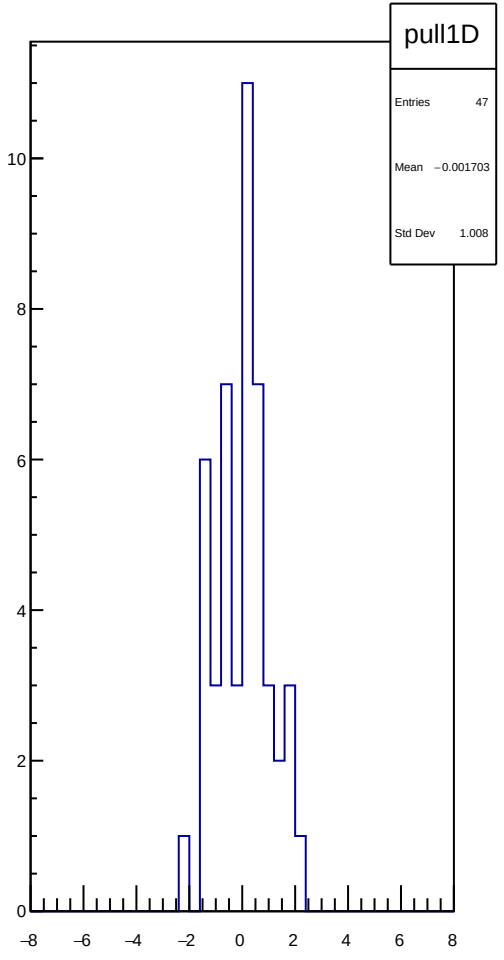

diff_bpm4eX_rms vs run
χ² / ndf 3423 / 46
p0 9475 ± 9.661
12000
11500
11000
10500
10000
9500
9000
8500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

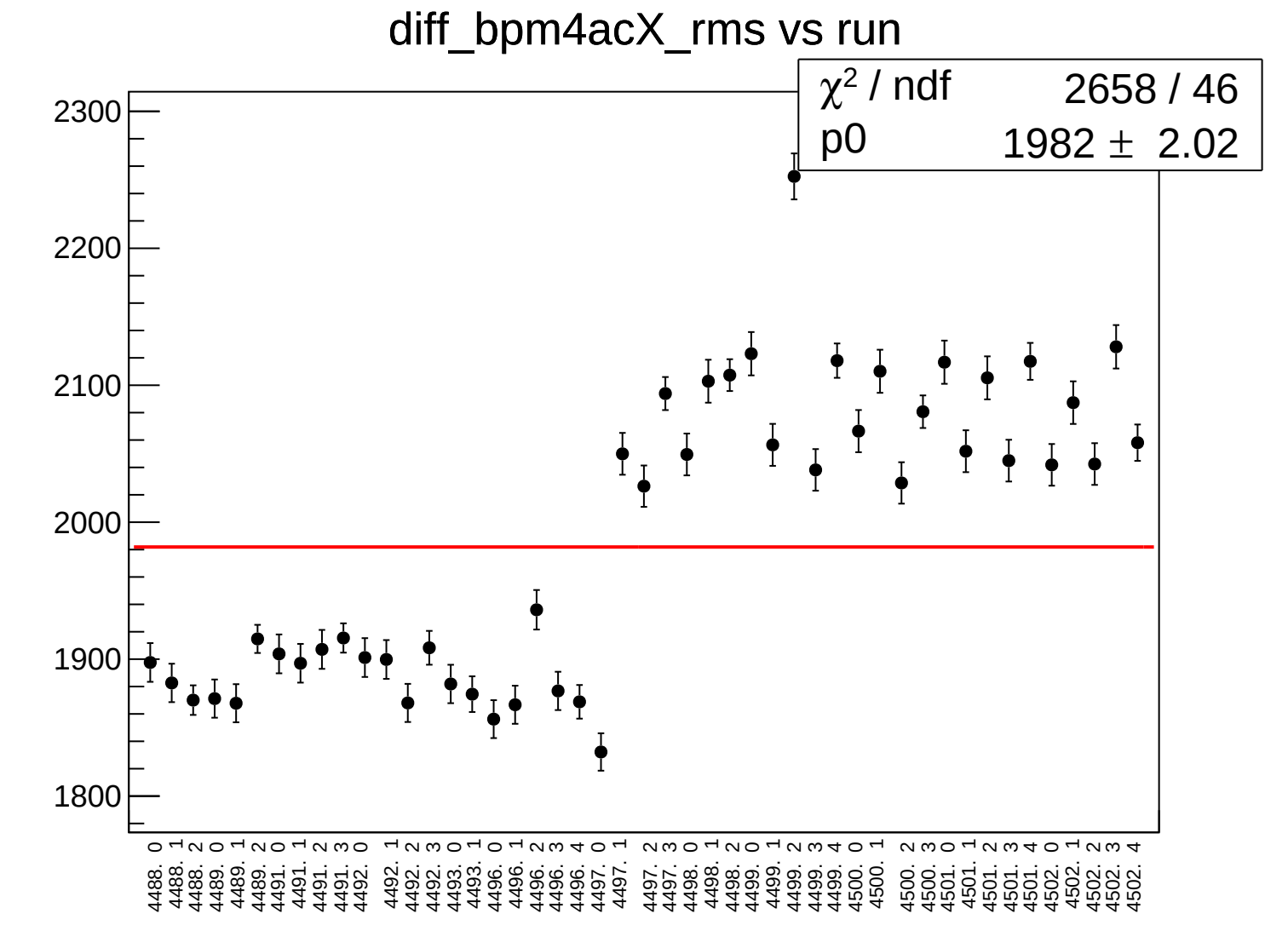

diff_bpm4eY_mean vs run
χ² / ndf 35.87 / 46
p0 0.9002 ± 4.403
150
100
50
0
−50
−100
−150
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 65.12
Std Dev 37.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

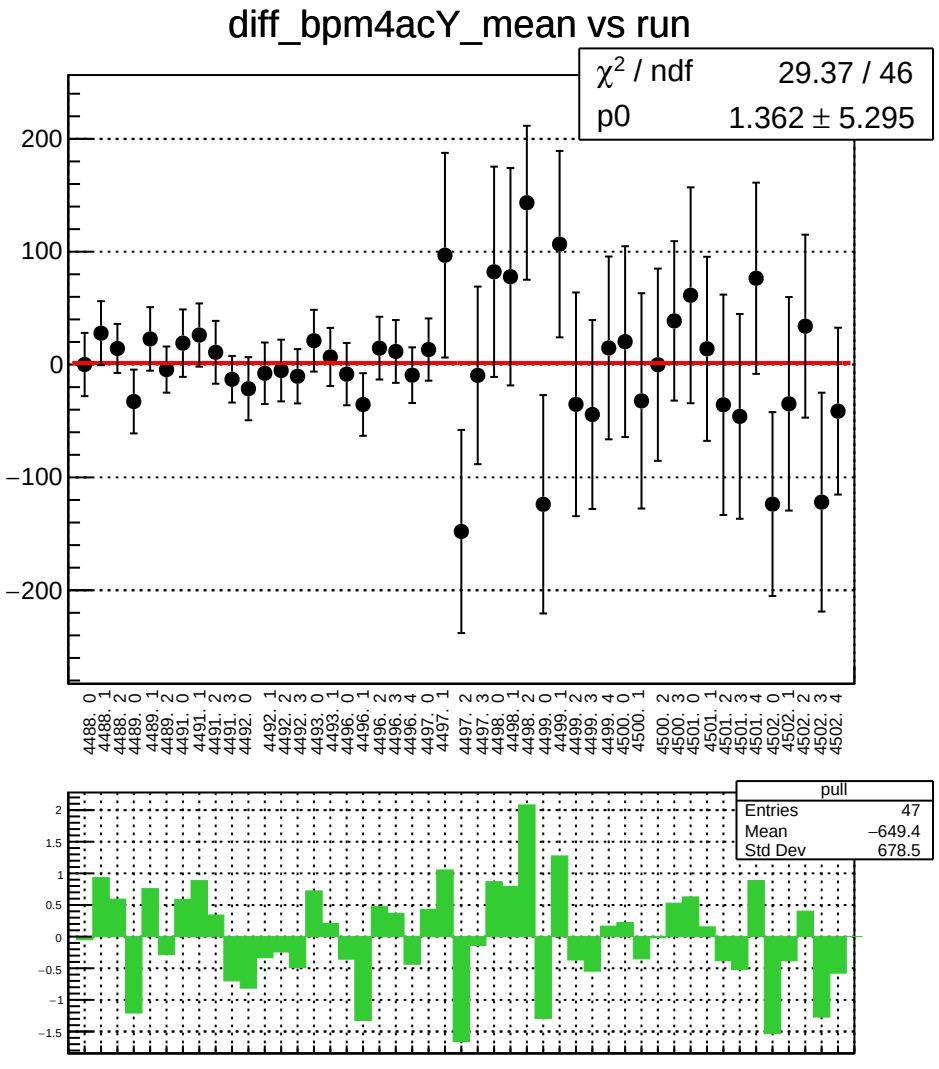

pull1D
Entries 47
Mean −0.0546
Std Dev 0.8719
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

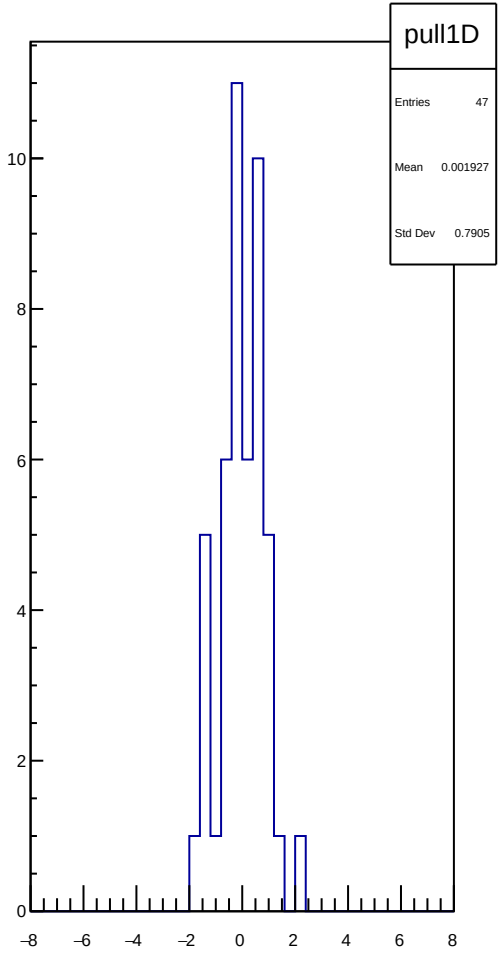

diff_bpm4eY_rms vs run
χ^2 / ndf 1.917e+05 / 46
p0 2738 ± 3.113
7000
6000
5000
4000
3000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

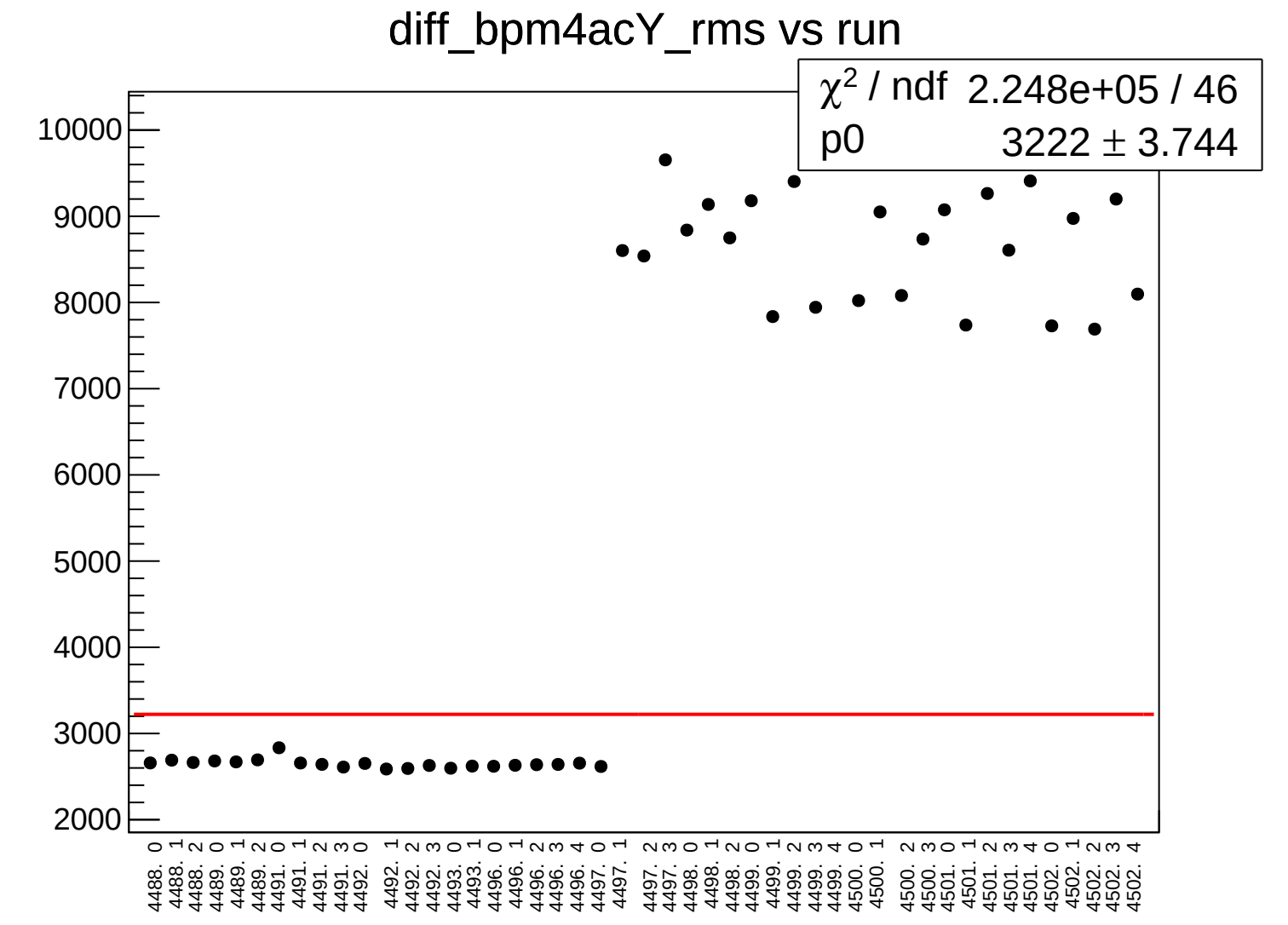

diff_bpm4acX_mean vs run
χ² / ndf 47.74 / 46
p0 −2.876 ± 2.857
pull
Entries 47
Mean 1653
Std Dev 1631

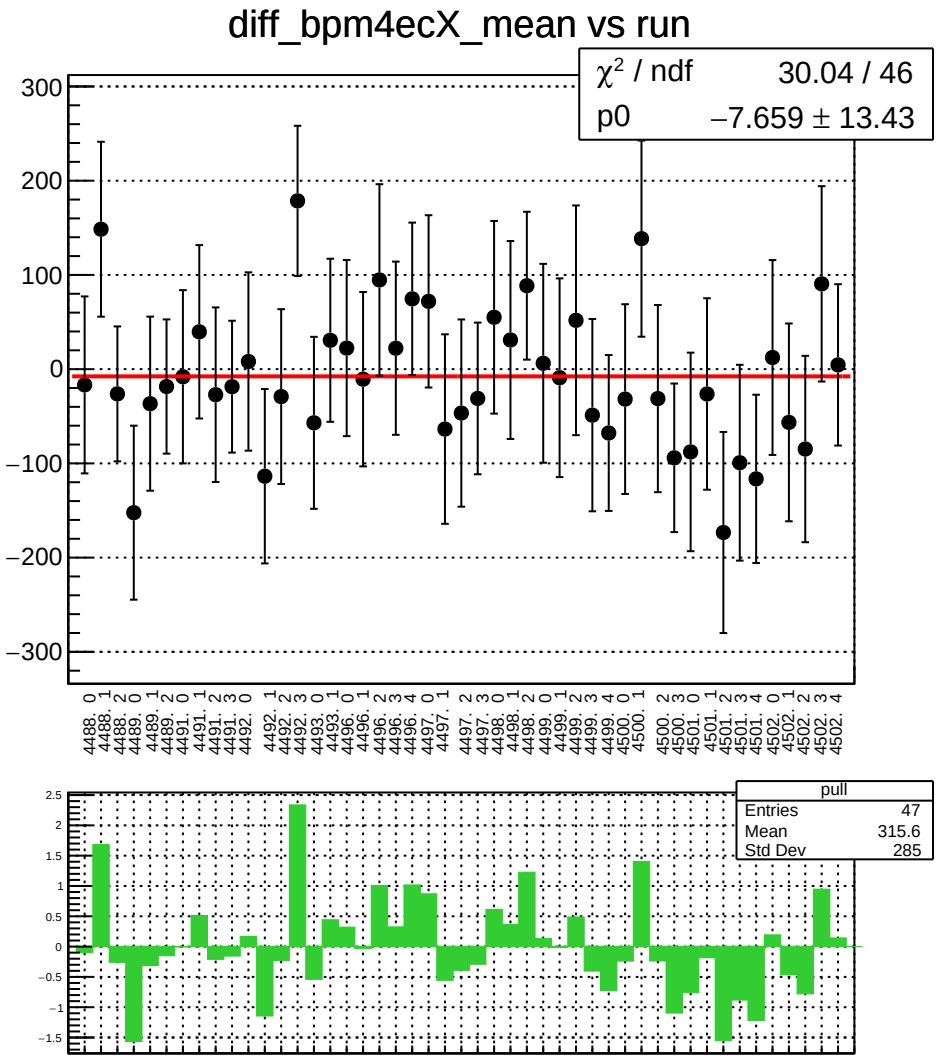

pull1D
Entries 47
Mean −0.001703
Std Dev 1.008

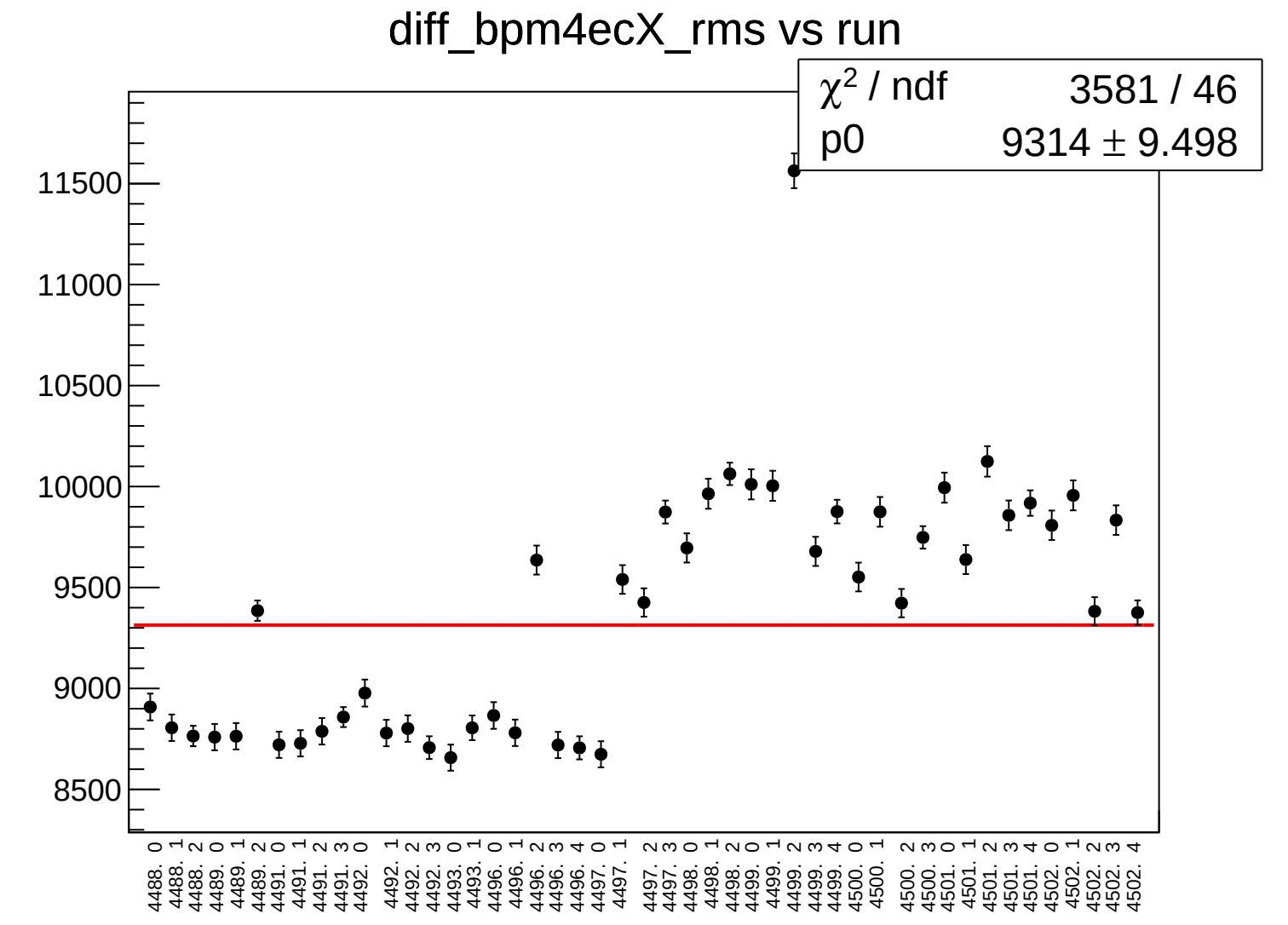

diff_bpm4acX_rms vs run
χ² / ndf 2658 / 46
p0 1982 ± 2.02
2300
2200
2100
2000
1900
1800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

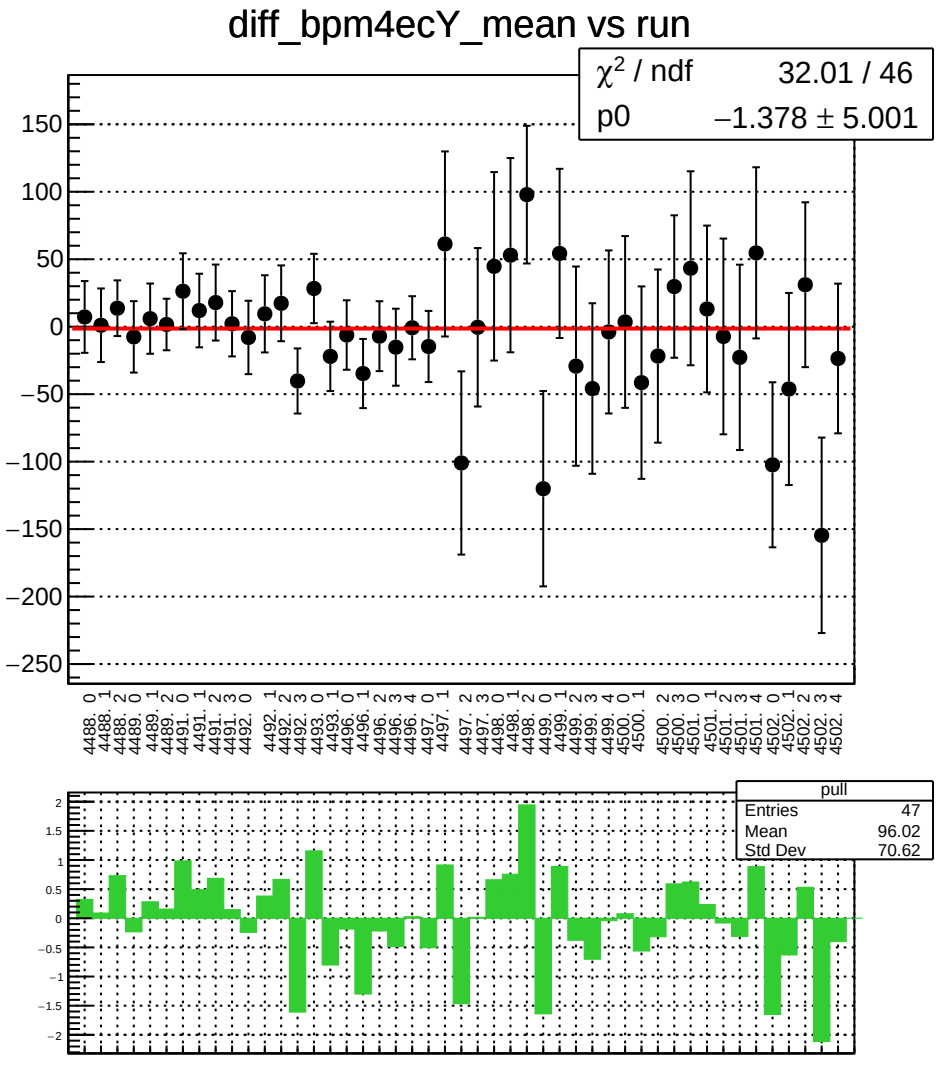

diff_bpm4acY_mean vs run
χ² / ndf 29.37 / 46
p0 1.362 ± 5.295
200
100
0
−100
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −649.4
Std Dev 678.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

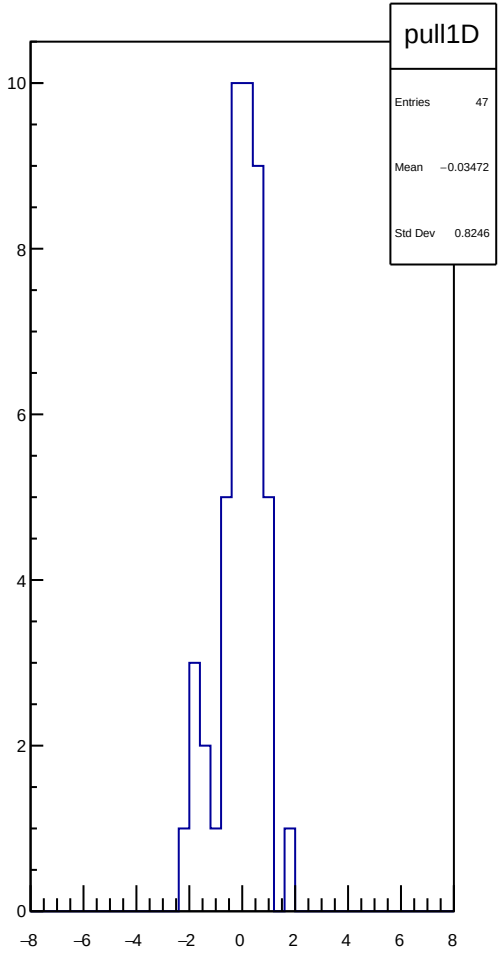

pull1D
Entries 47
Mean 0.001927
Std Dev 0.7905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

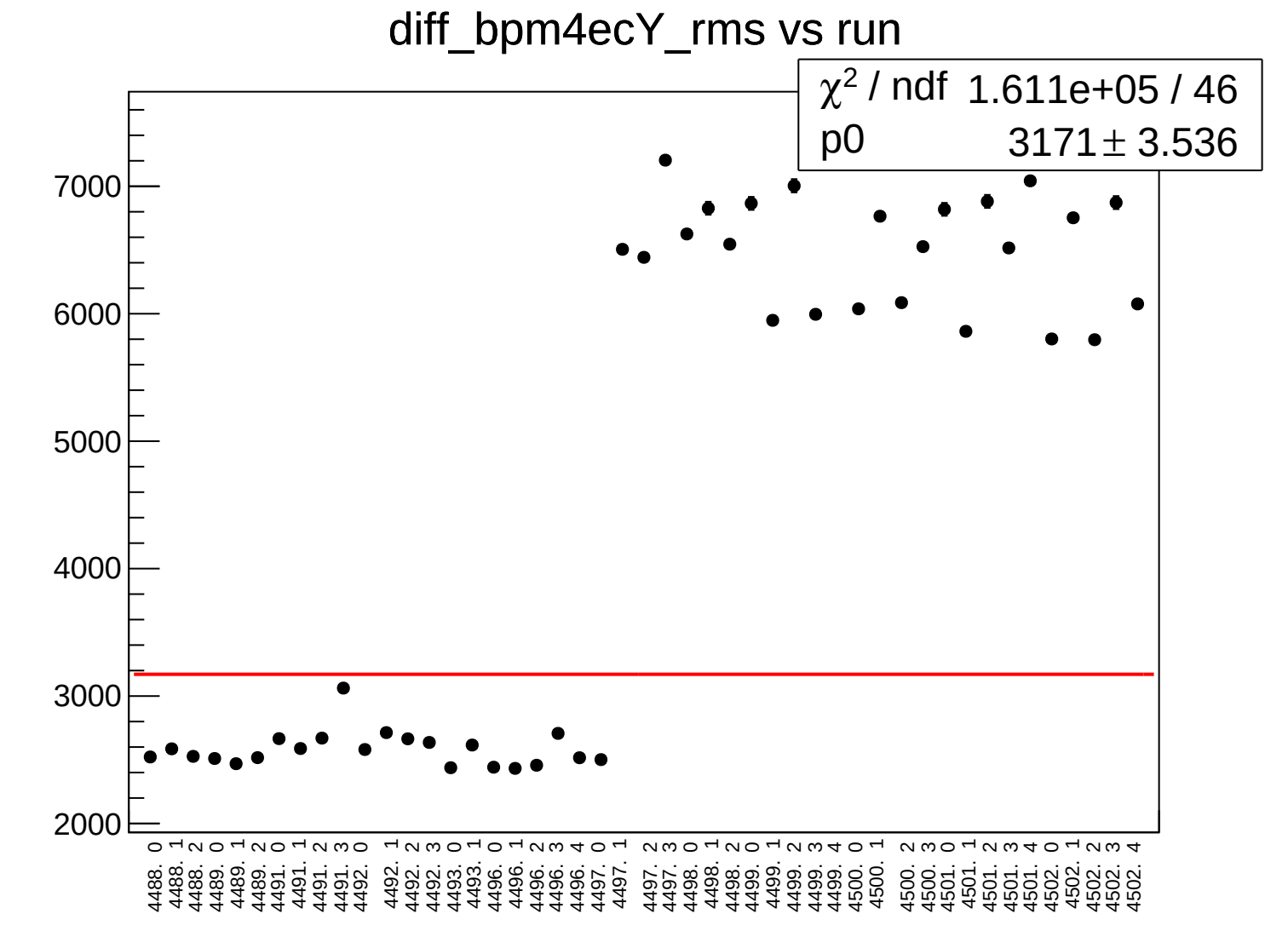

diff_bpm4acY_rms vs run
χ² / ndf 2.248e+05 / 46
p0 3222 ± 3.744
10000
9000
8000
7000
6000
5000
4000
3000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

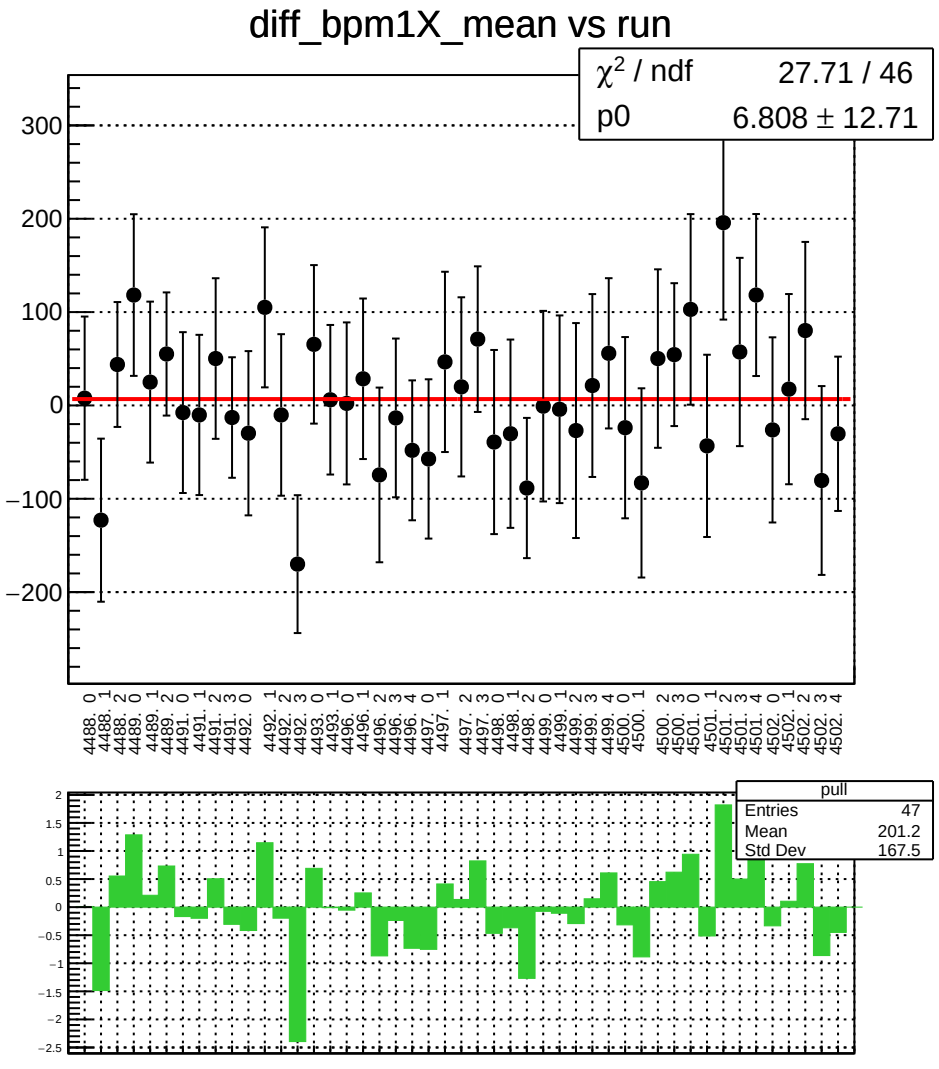

diff_bpm4ecX_mean vs run
χ² / ndf 30.04 / 46
p0 −7.659 ± 13.43
300
200
100
0
−100
−200
−300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 315.6
Std Dev 285
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.006456
Std Dev 0.7994
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

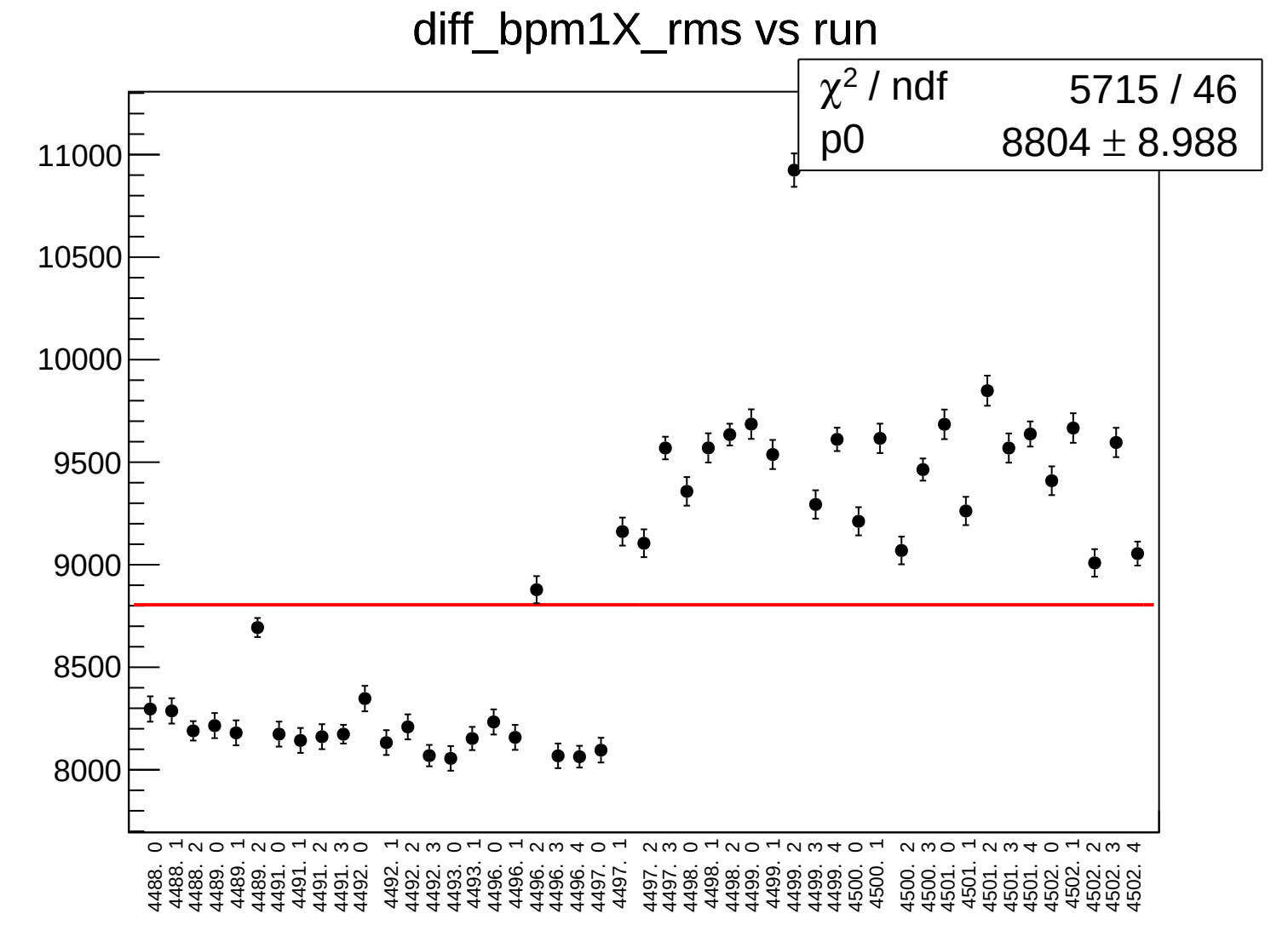

diff_bpm4ecX_rms vs run
χ² / ndf 3581 / 46
p0 9314 ± 9.498
11500
11000
10500
10000
9500
9000
8500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

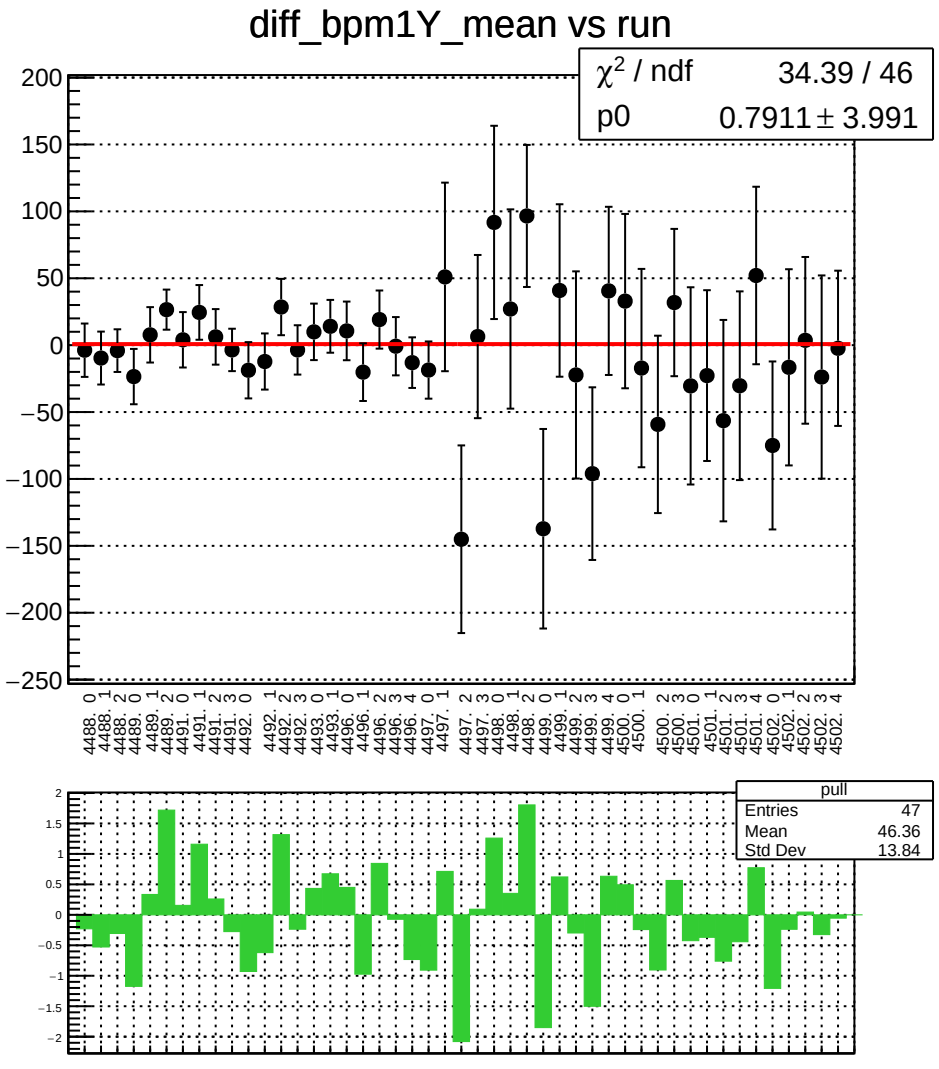

diff_bpm4ecY_mean vs run
χ² / ndf 32.01 / 46
p0 −1.378 ± 5.001
150
100
50
0
−50
−100
−150
−200
−250
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 96.02
Std Dev 70.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

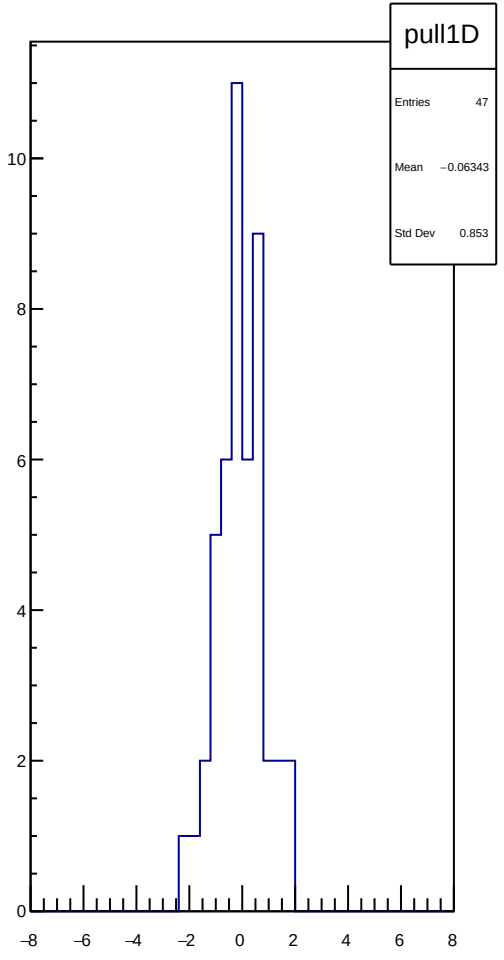

pull1D
Entries 47
Mean −0.03472
Std Dev 0.8246
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

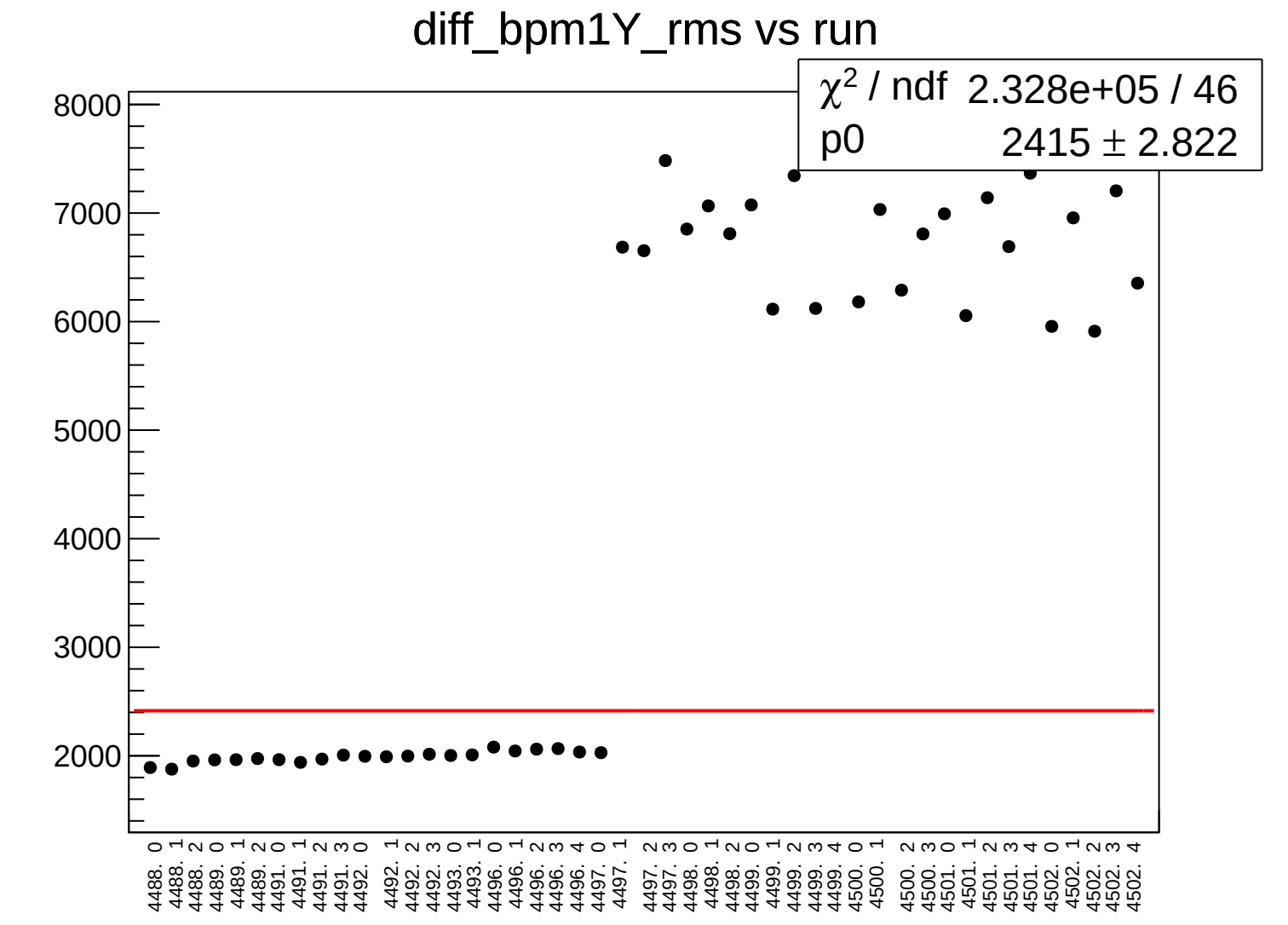

diff_bpm4ecY_rms vs run
χ² / ndf 1.611e+05 / 46
p0 3171 ± 3.536
7000
6000
5000
4000
3000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

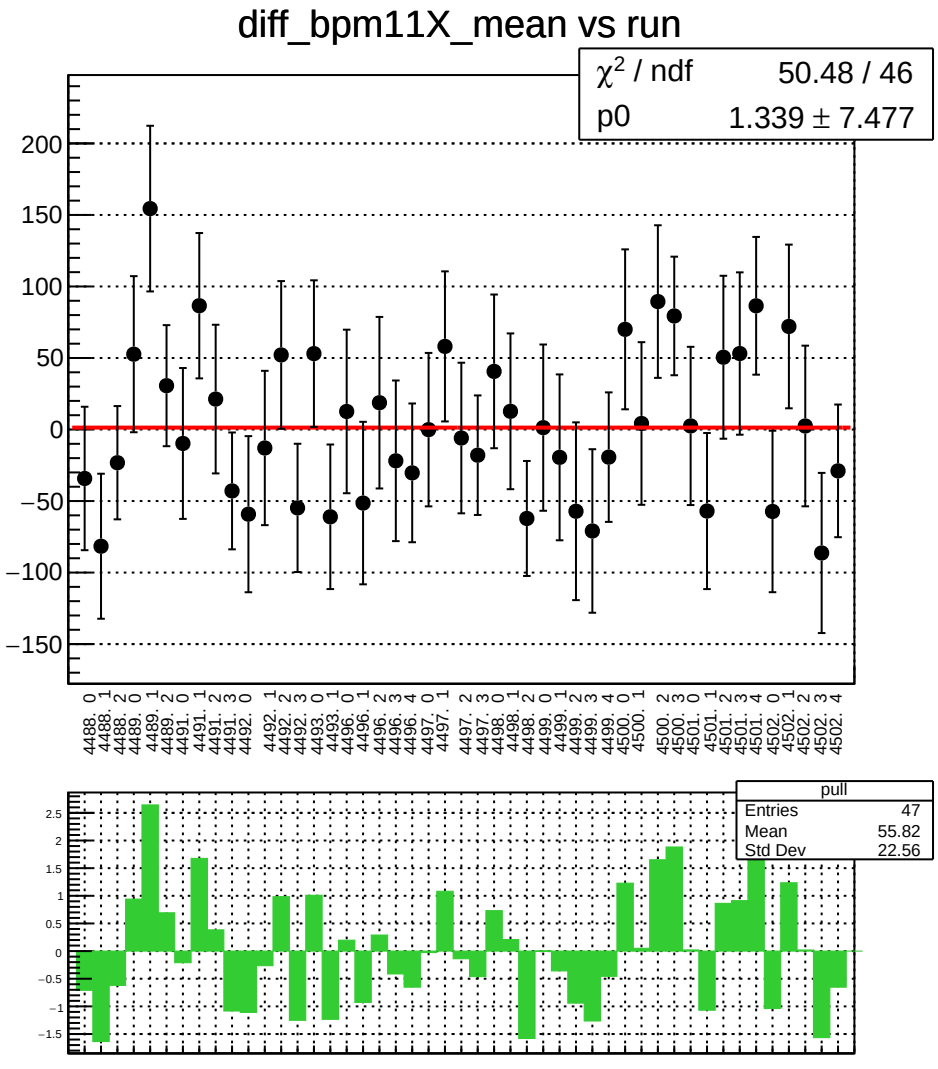

diff_bpm1X_mean vs run
χ² / ndf 27.71 / 46
p0 6.808 ± 12.71
300
200
100
0
−100
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 201.2
Std Dev 167.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean 0.005568
Std Dev 0.7678
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

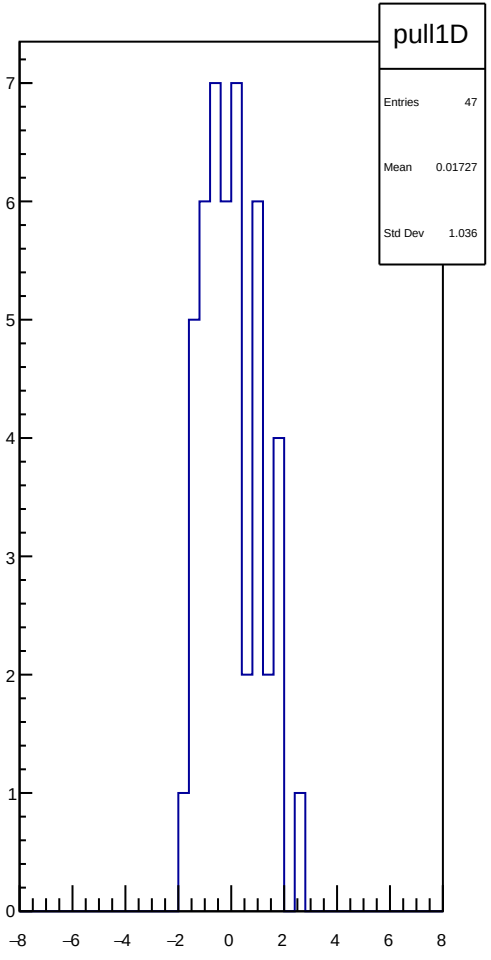

diff_bpm1X_rms vs run
χ² / ndf 5715 / 46
p0 8804 ± 8.988
11000
10500
10000
9500
9000
8500
8000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

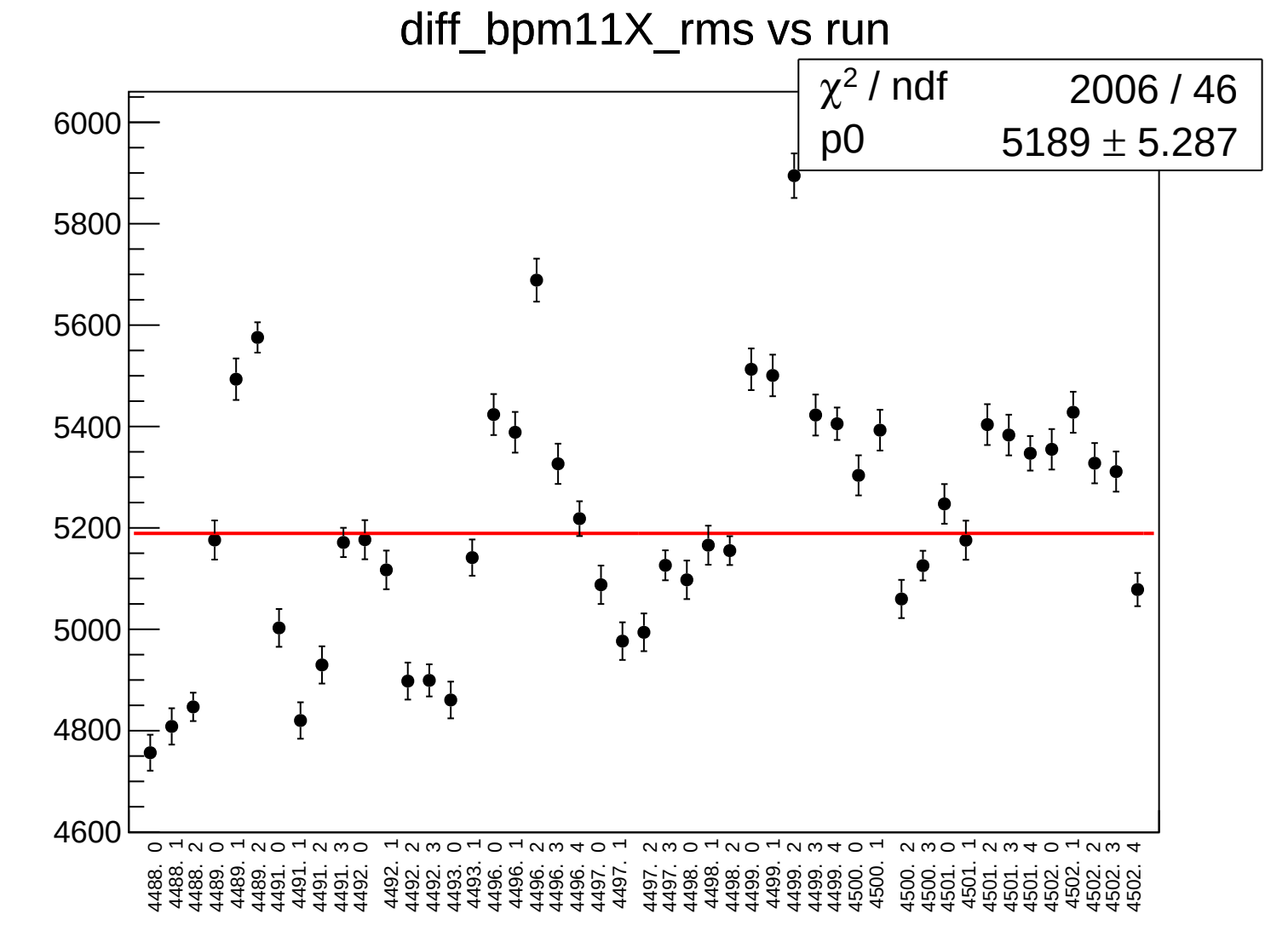

diff_bpm1Y_mean vs run
χ² / ndf 34.39 / 46
p0 0.7911 ± 3.991
pull
Entries 47
Mean 46.36
Std Dev 13.84

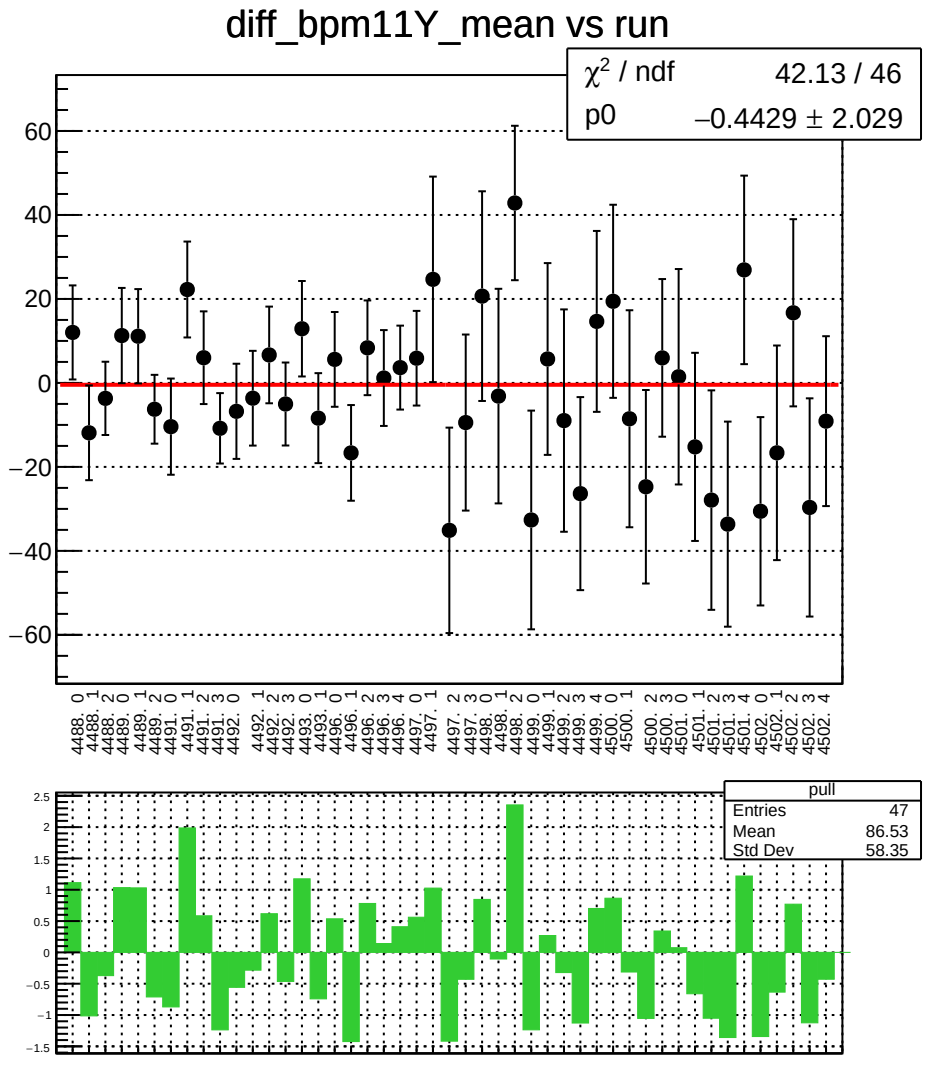

pull1D
Entries 47
Mean −0.06343
Std Dev 0.853

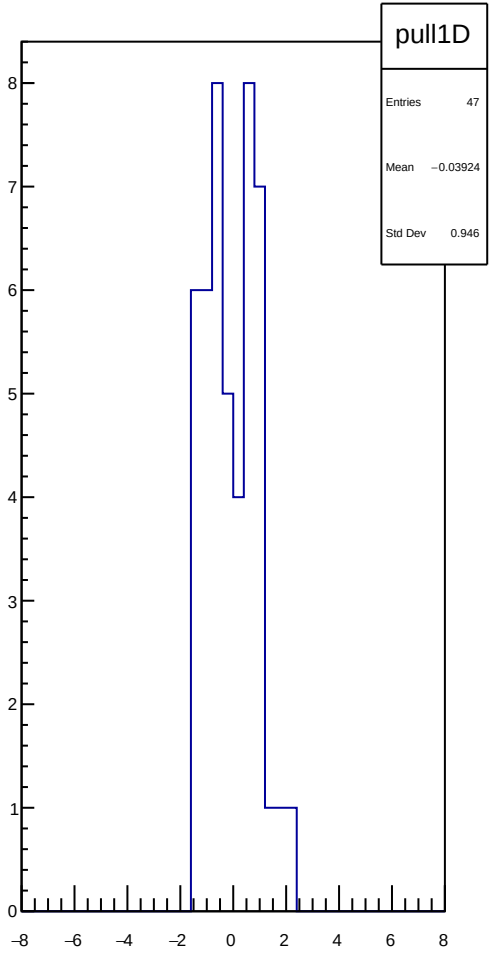

diff_bpm1Y_rms vs run
χ² / ndf 2.328e+05 / 46
p0 2415 ± 2.822
8000
7000
6000
5000
4000
3000
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

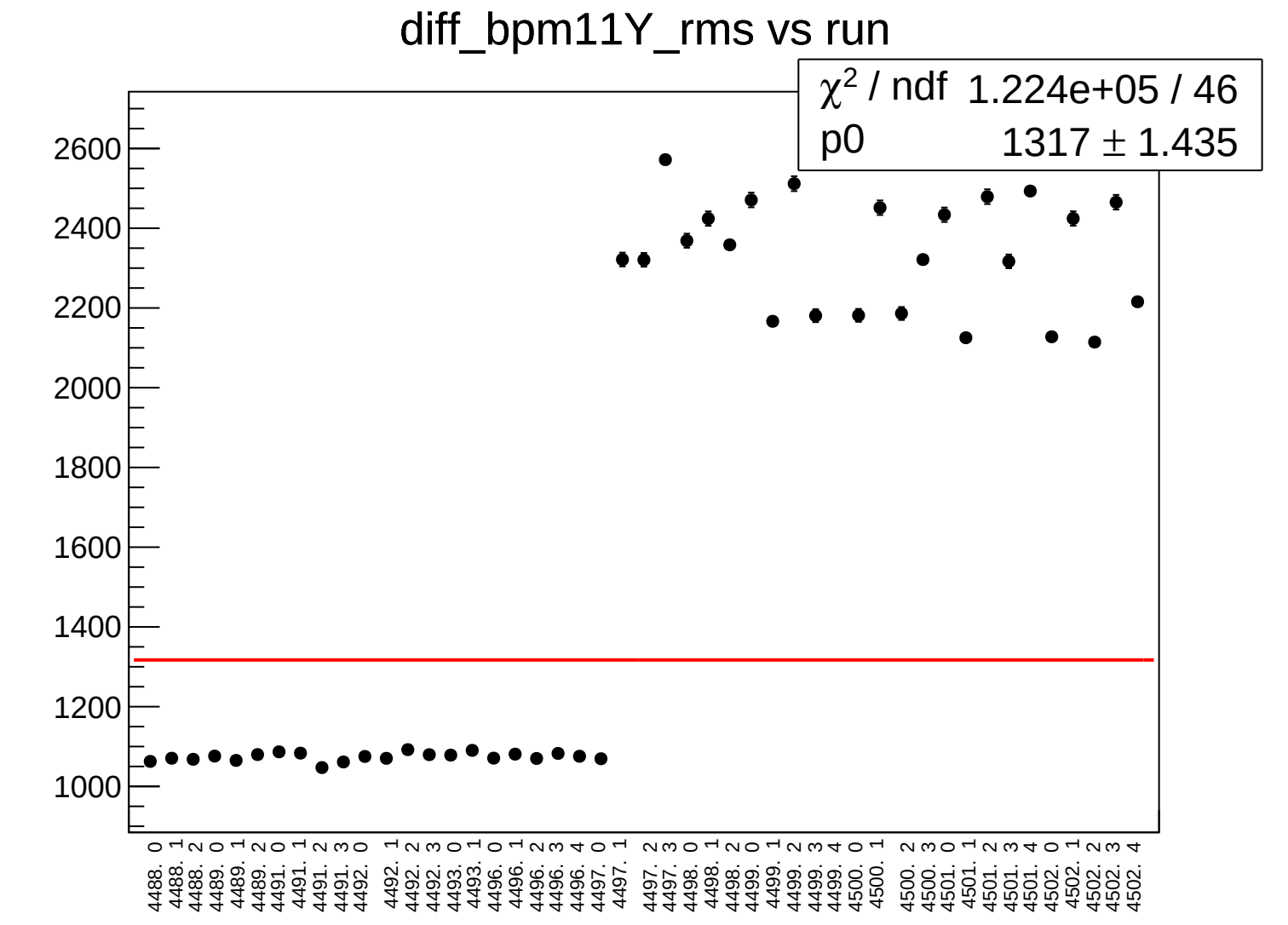

diff_bpm11X_mean vs run
χ^2 / ndf 50.48 / 46
p0 1.339 ± 7.477
200
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 55.82
Std Dev 22.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

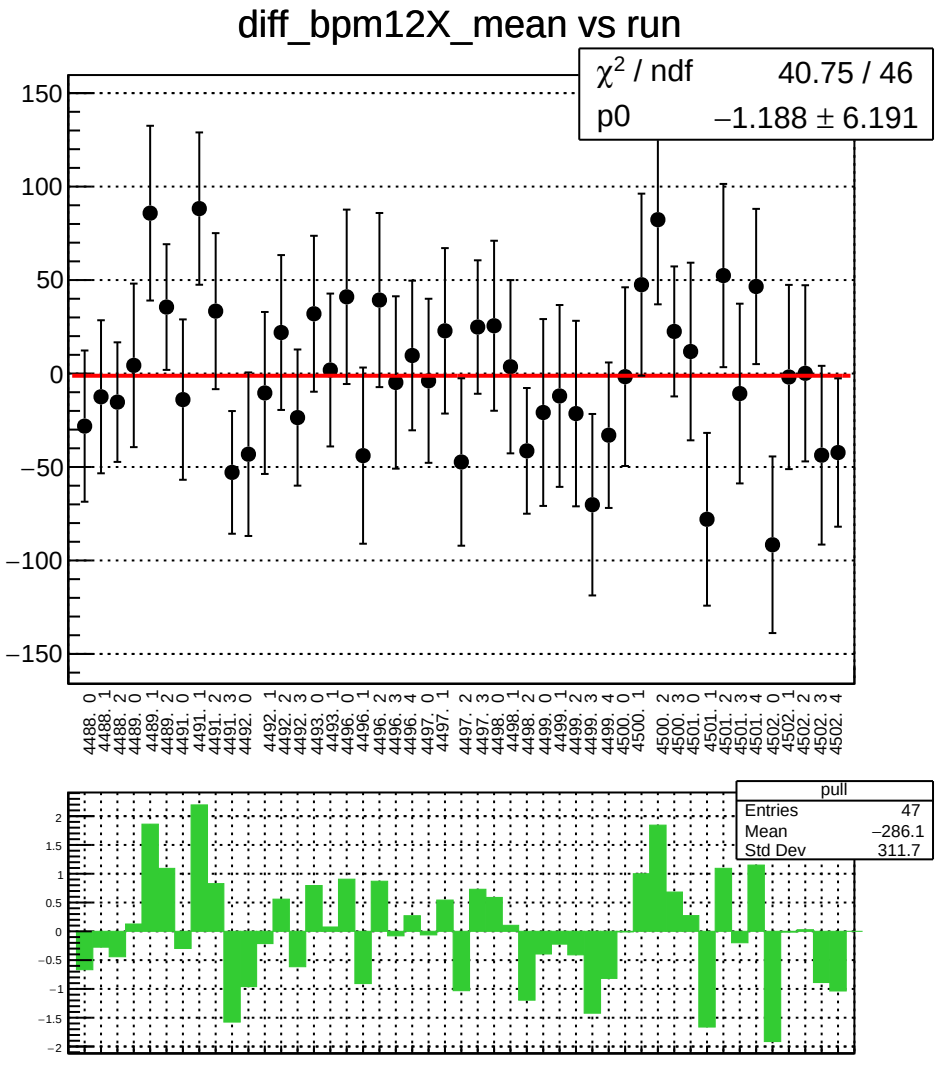

pull1D
Entries 47
Mean 0.01727
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

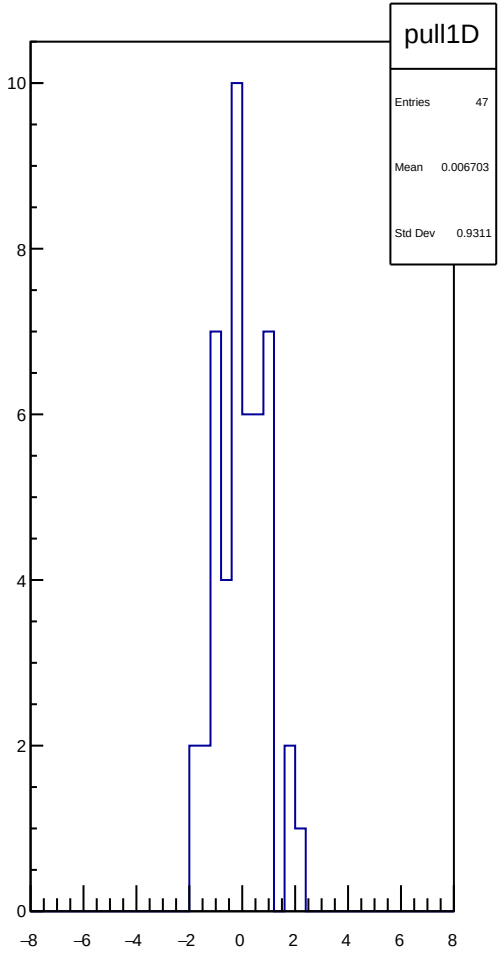

diff_bpm11X_rms vs run
χ² / ndf 2006 / 46
p0 5189 ± 5.287
6000
5800
5600
5400
5200
5000
4800
4600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

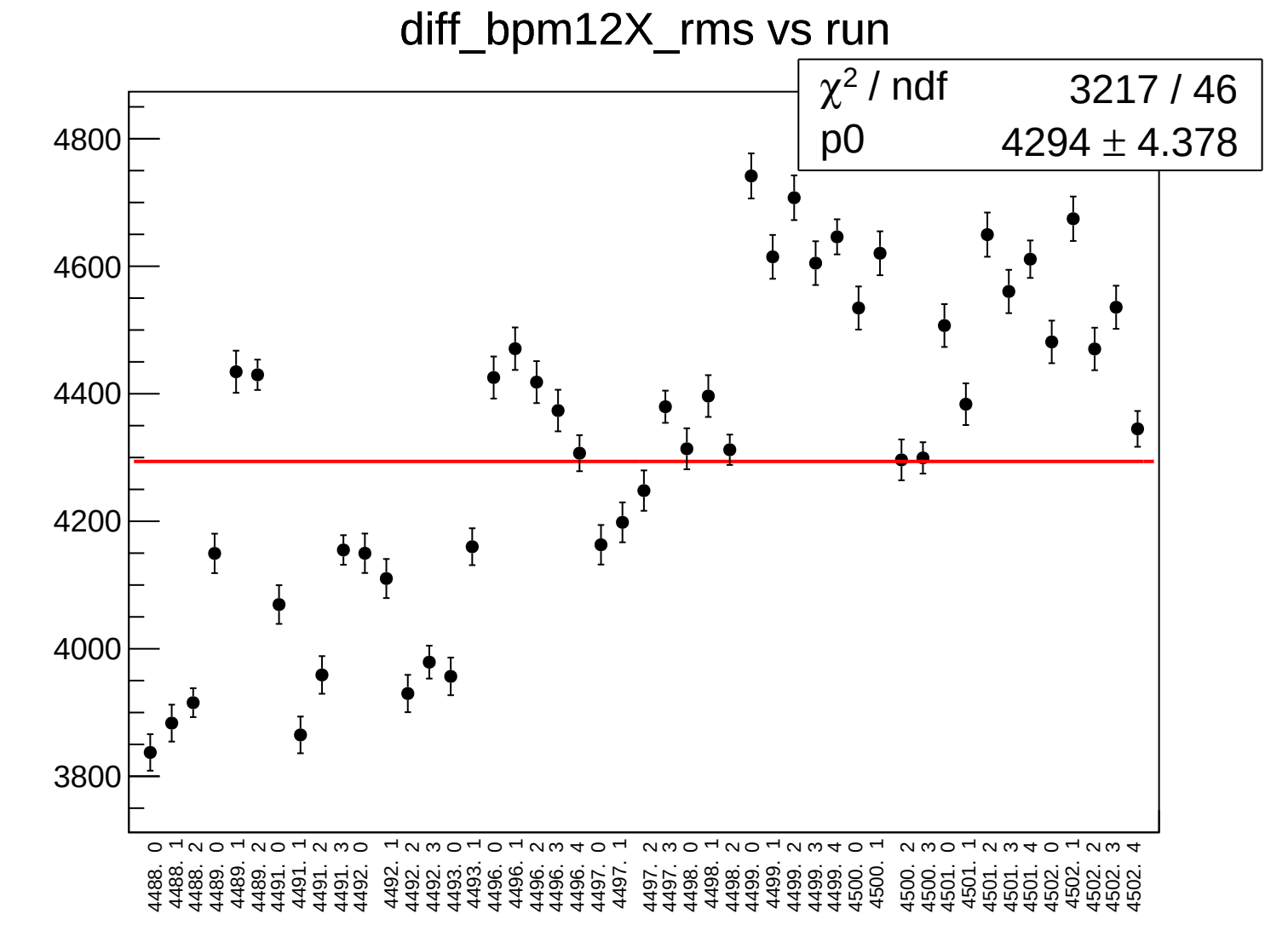

diff_bpm11Y_mean vs run
χ² / ndf 42.13 / 46
p0 −0.4429 ± 2.029
pull
Entries 47
Mean 86.53
Std Dev 58.35

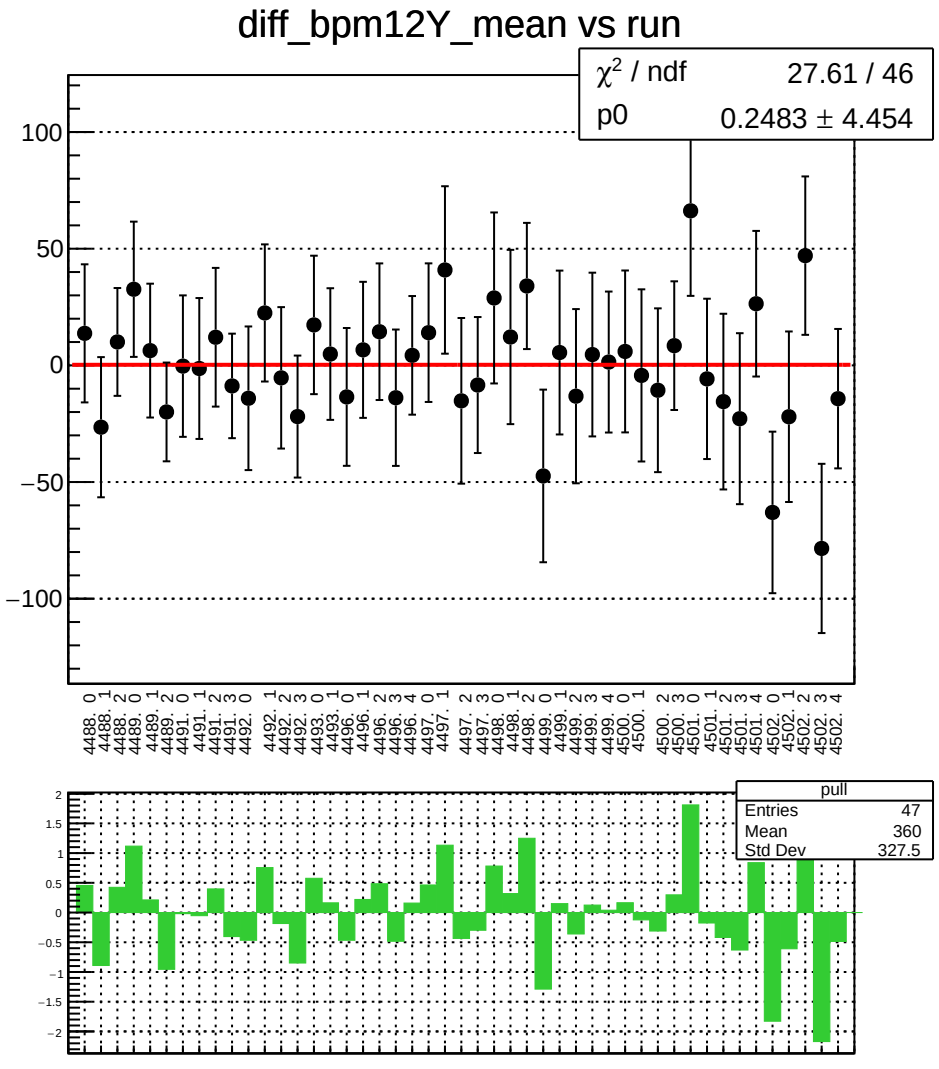

pull1D
Entries 47
Mean −0.03924
Std Dev 0.946

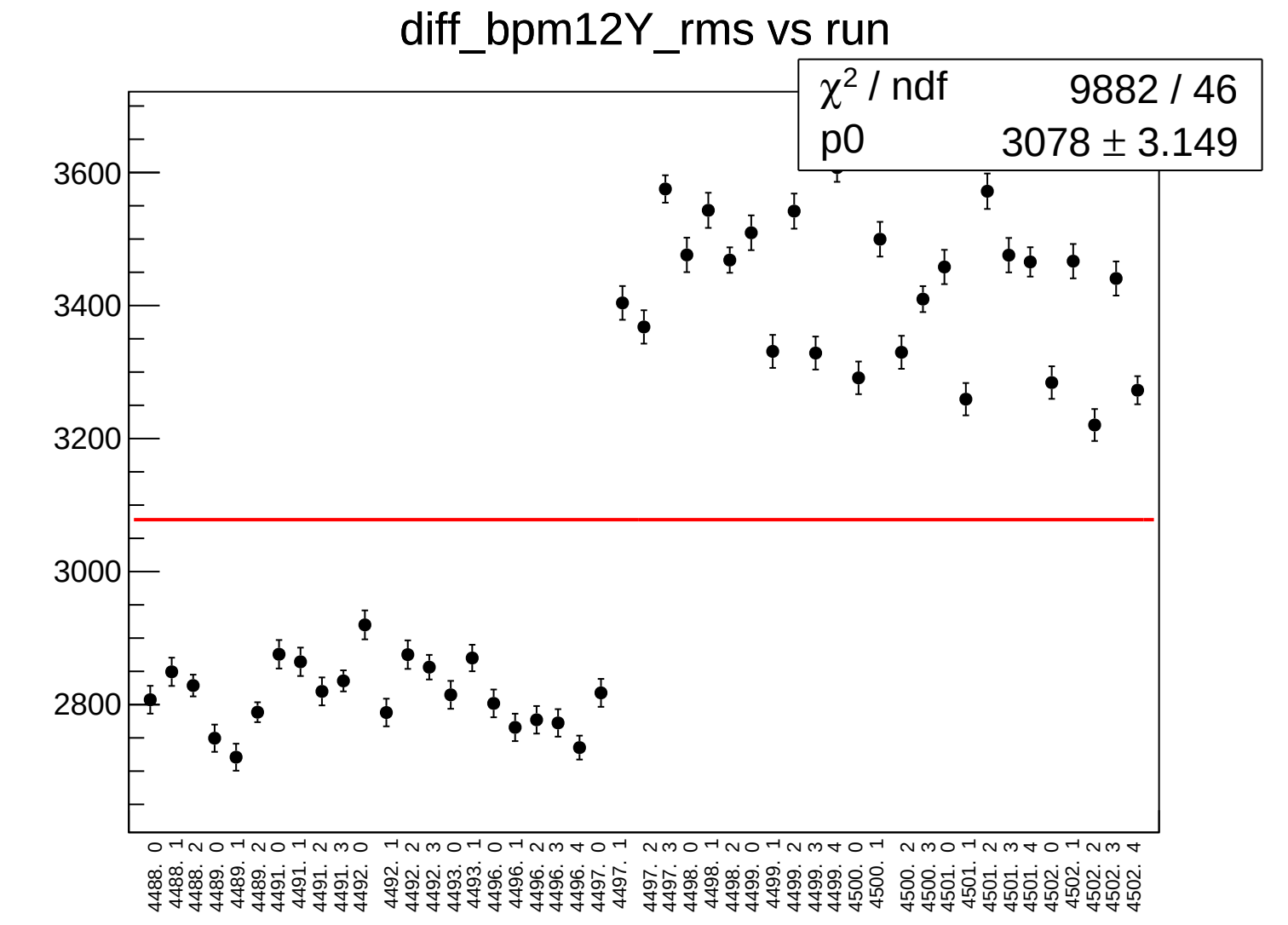

diff_bpm11Y_rms vs run
χ^2 / ndf 1.224e+05 / 46
p0 1317 ± 1.435
2600
2400
2200
2000
1800
1600
1400
1200
1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

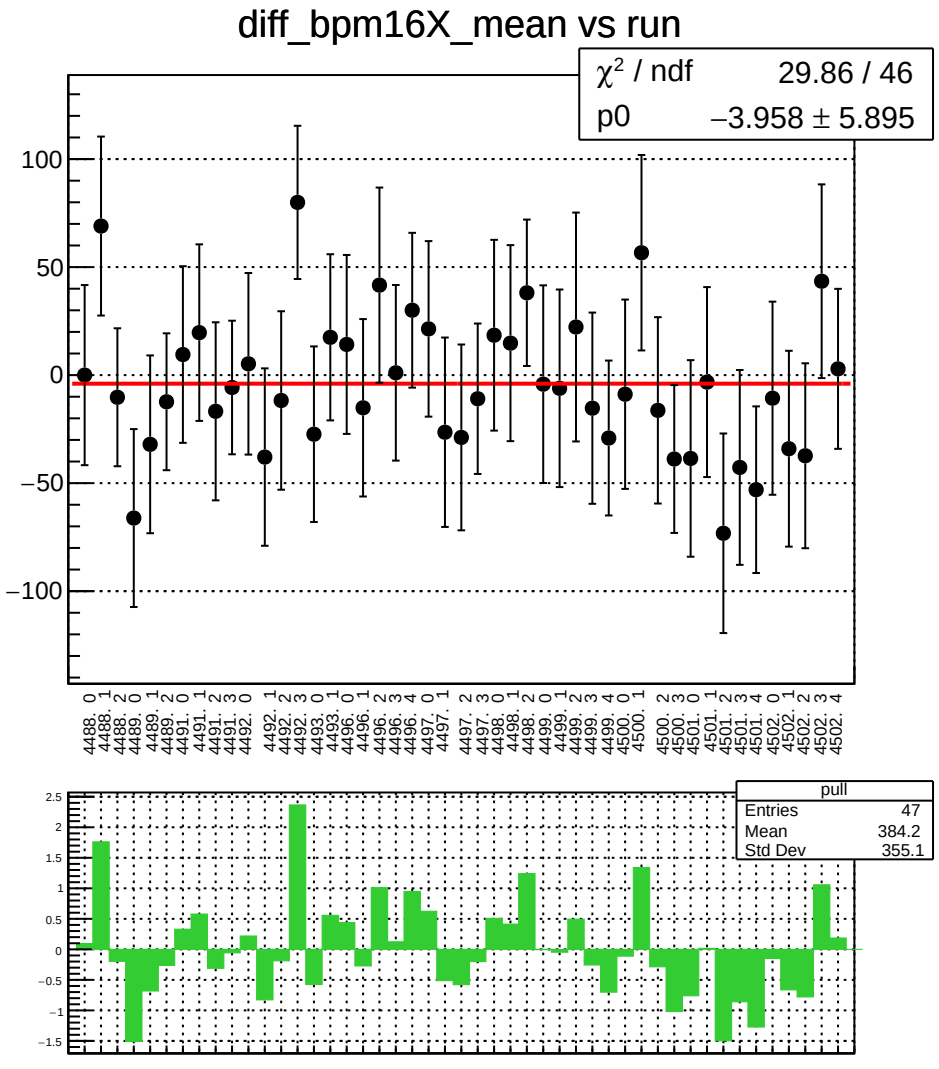

diff_bpm12X_mean vs run
χ^2 / ndf 40.75 / 46
p0 −1.188 ± 6.191
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −286.1
Std Dev 311.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

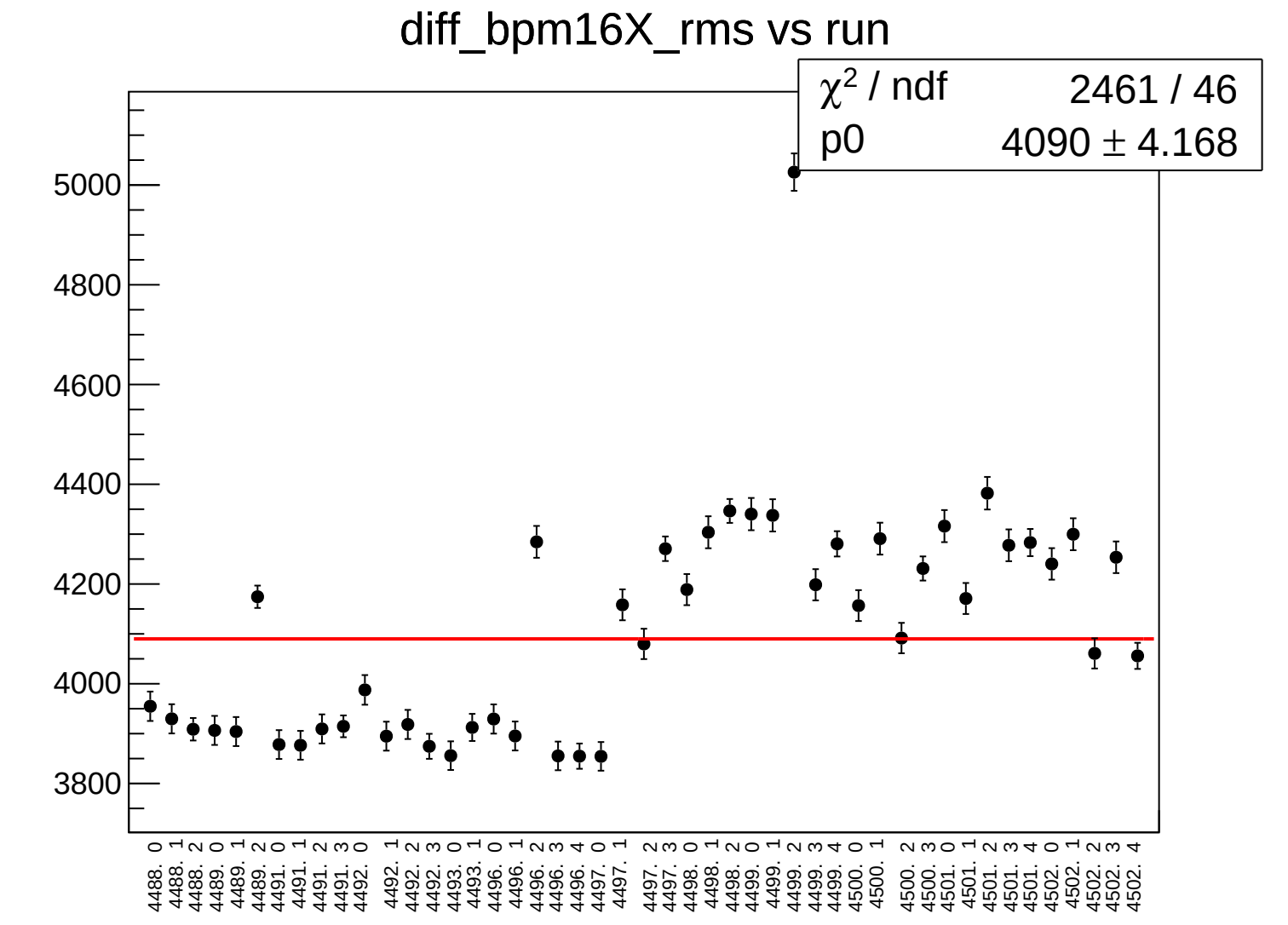

pull1D
Entries 47
Mean 0.006703
Std Dev 0.9311
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

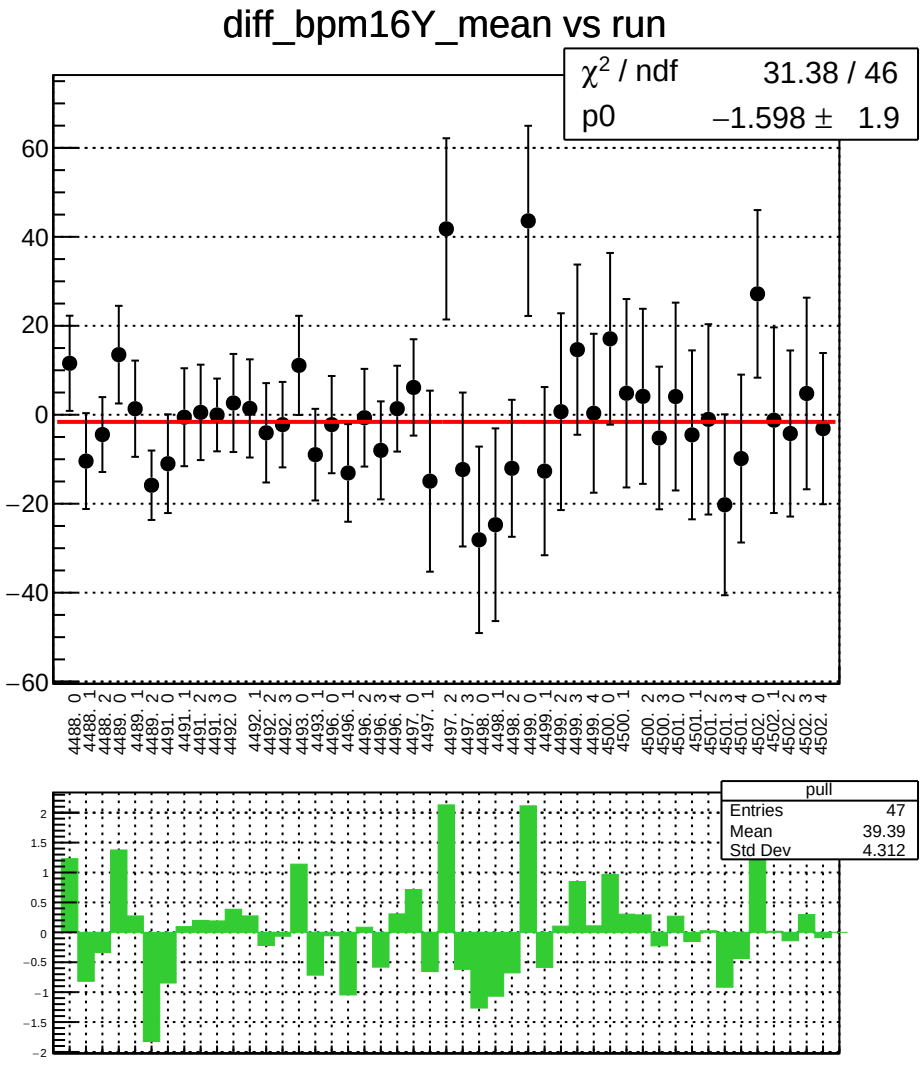

diff_bpm12X_rms vs run
χ² / ndf 3217 / 46
p0 4294 ± 4.378
4800
4600
4400
4200
4000
3800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

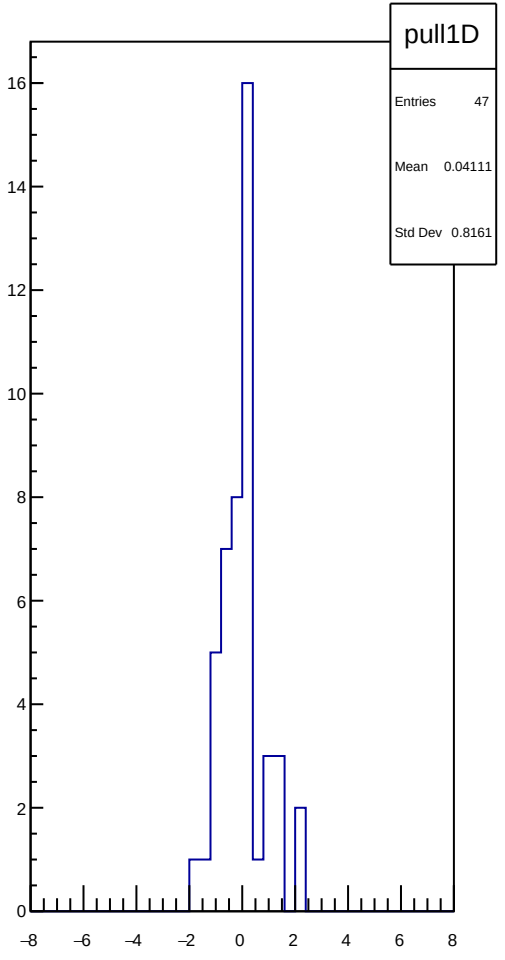

diff_bpm12Y_mean vs run
χ² / ndf 27.61 / 46
p0 0.2483 ± 4.454
100
50
0
−50
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 360
Std Dev 327.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.00403
Std Dev 0.7665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

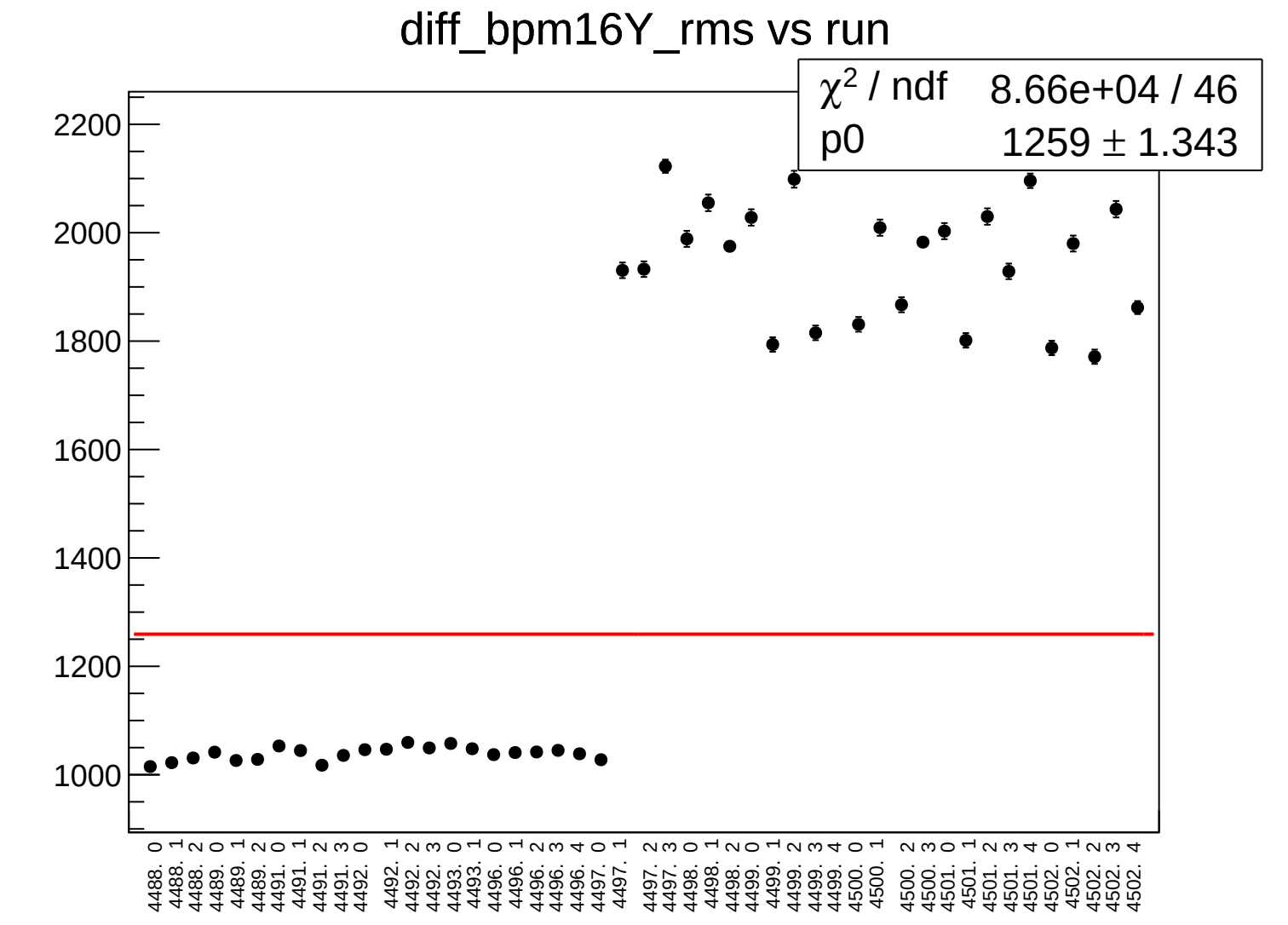

diff_bpm12Y_rms vs run
χ² / ndf 9882 / 46
p0 3078 ± 3.149
3600
3400
3200
3000
2800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

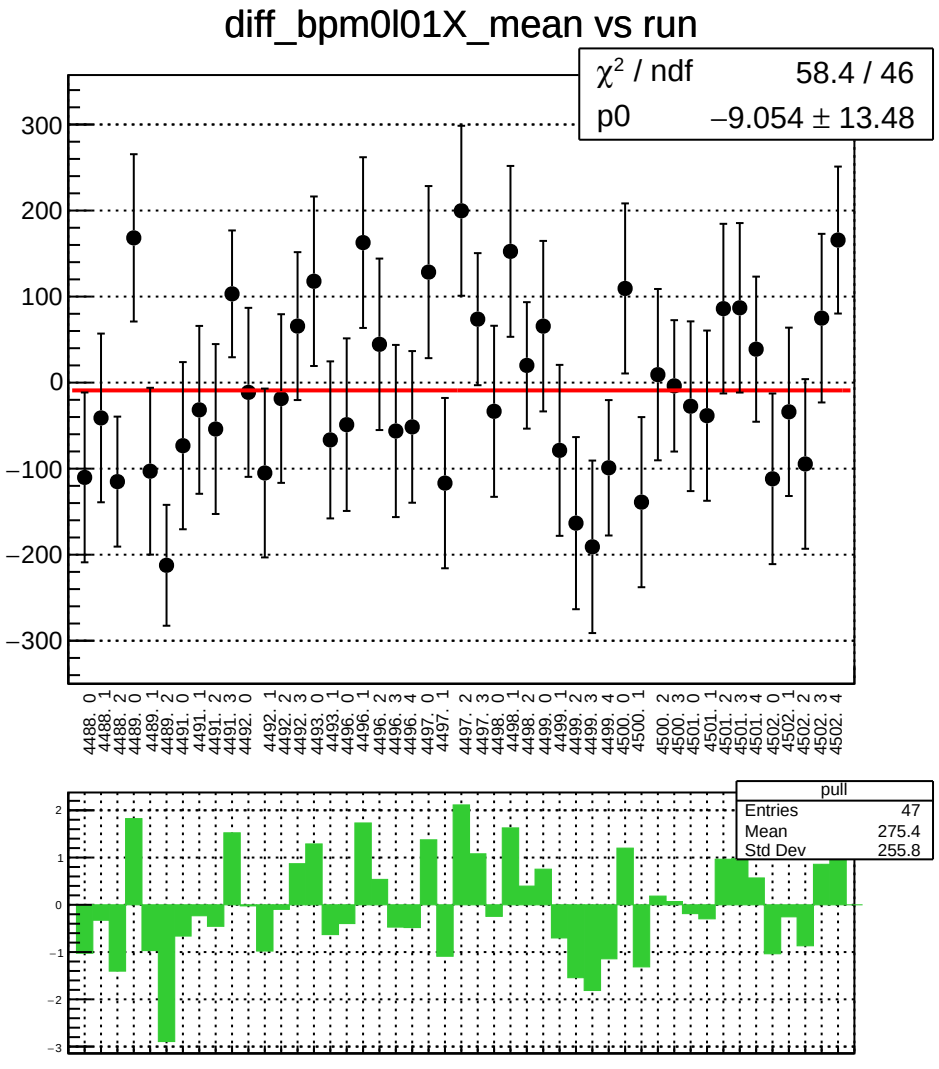

diff_bpm16X_mean vs run
χ² / ndf 29.86 / 46
p0 −3.958 ± 5.895
100
50
0
−50
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 384.2
Std Dev 355.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.005944
Std Dev 0.7971
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

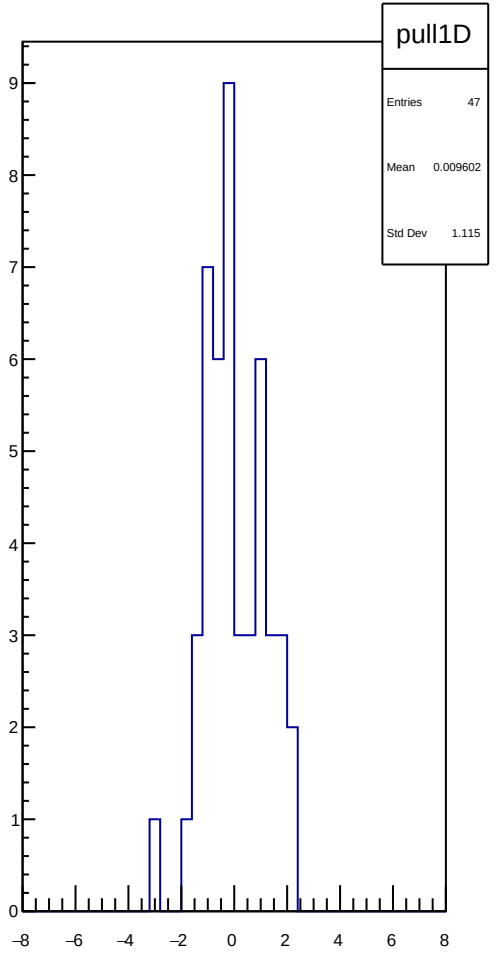

diff_bpm16X_rms vs run
χ² / ndf 2461 / 46
p0 4090 ± 4.168
5000
4800
4600
4400
4200
4000
3800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

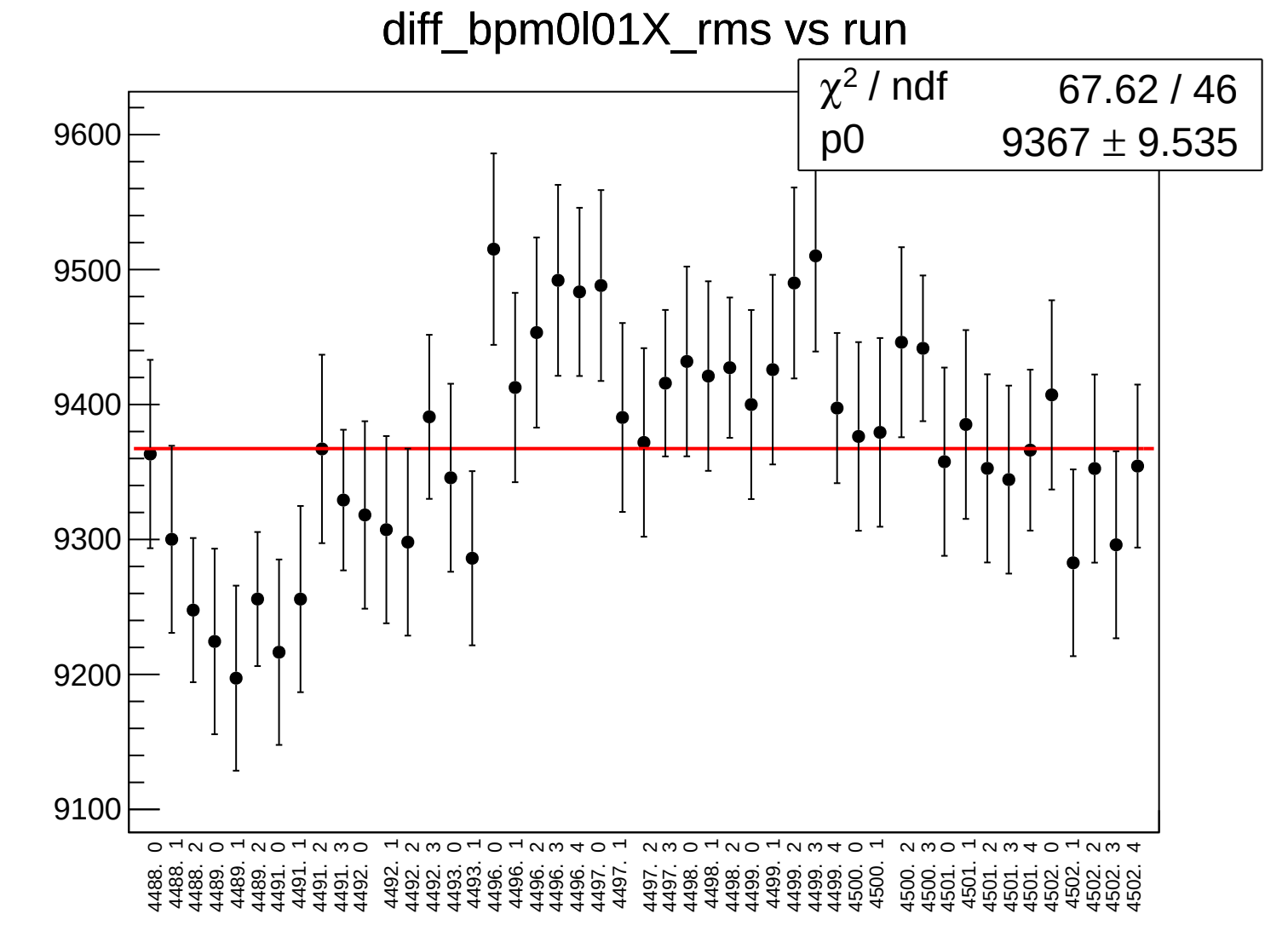

diff_bpm16Y_mean vs run
χ² / ndf 31.38 / 46
p0 −1.598 ± 1.9
pull
Entries 47
Mean 39.39
Std Dev 4.312

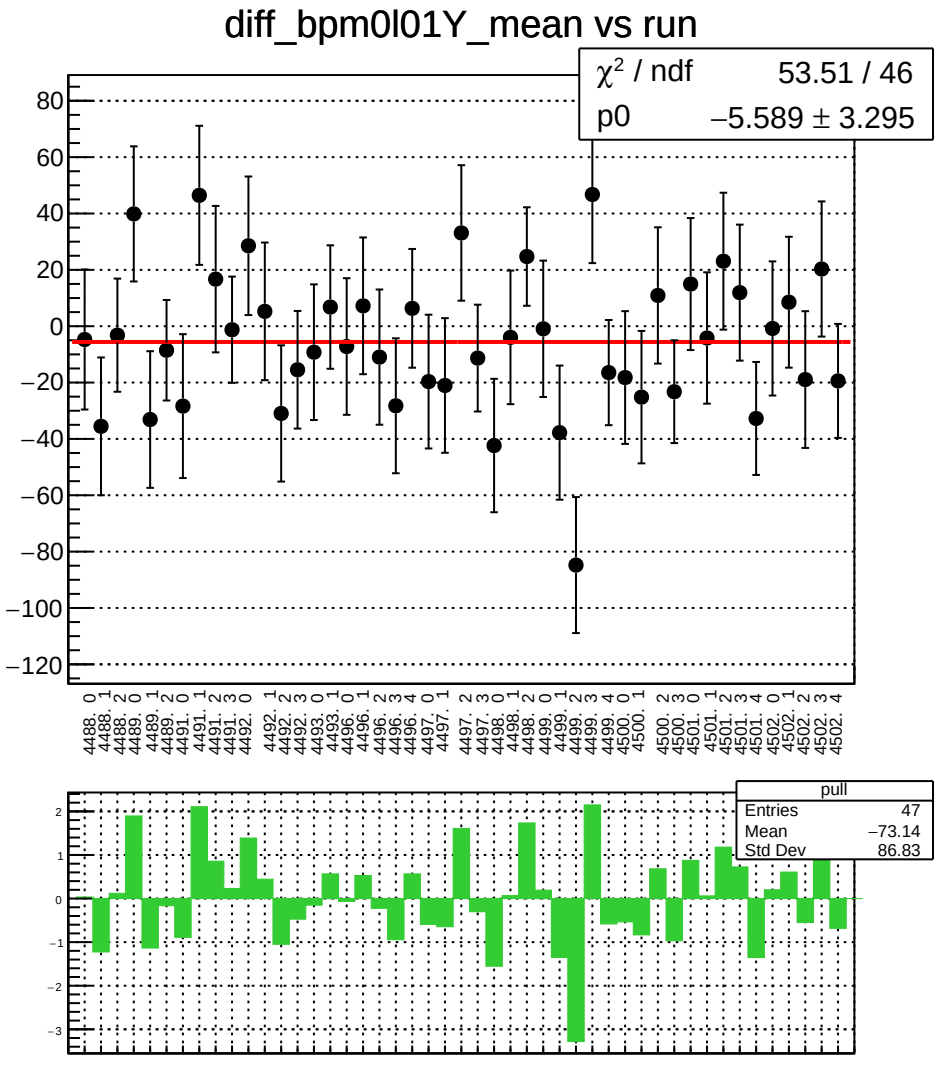

pull1D
Entries 47
Mean 0.04111
Std Dev 0.8161

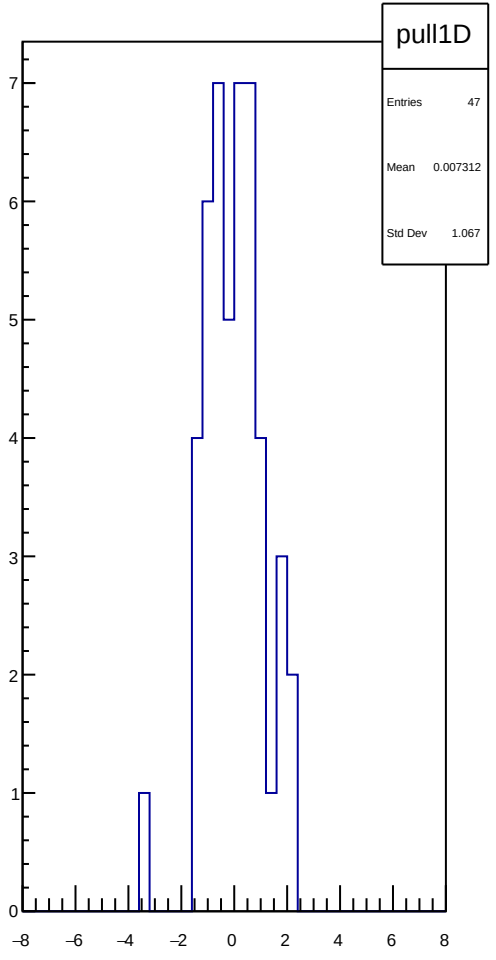

diff_bpm16Y_rms vs run
χ² / ndf 8.66e+04 / 46
p0 1259 ± 1.343
2200
2000
1800
1600
1400
1200
1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

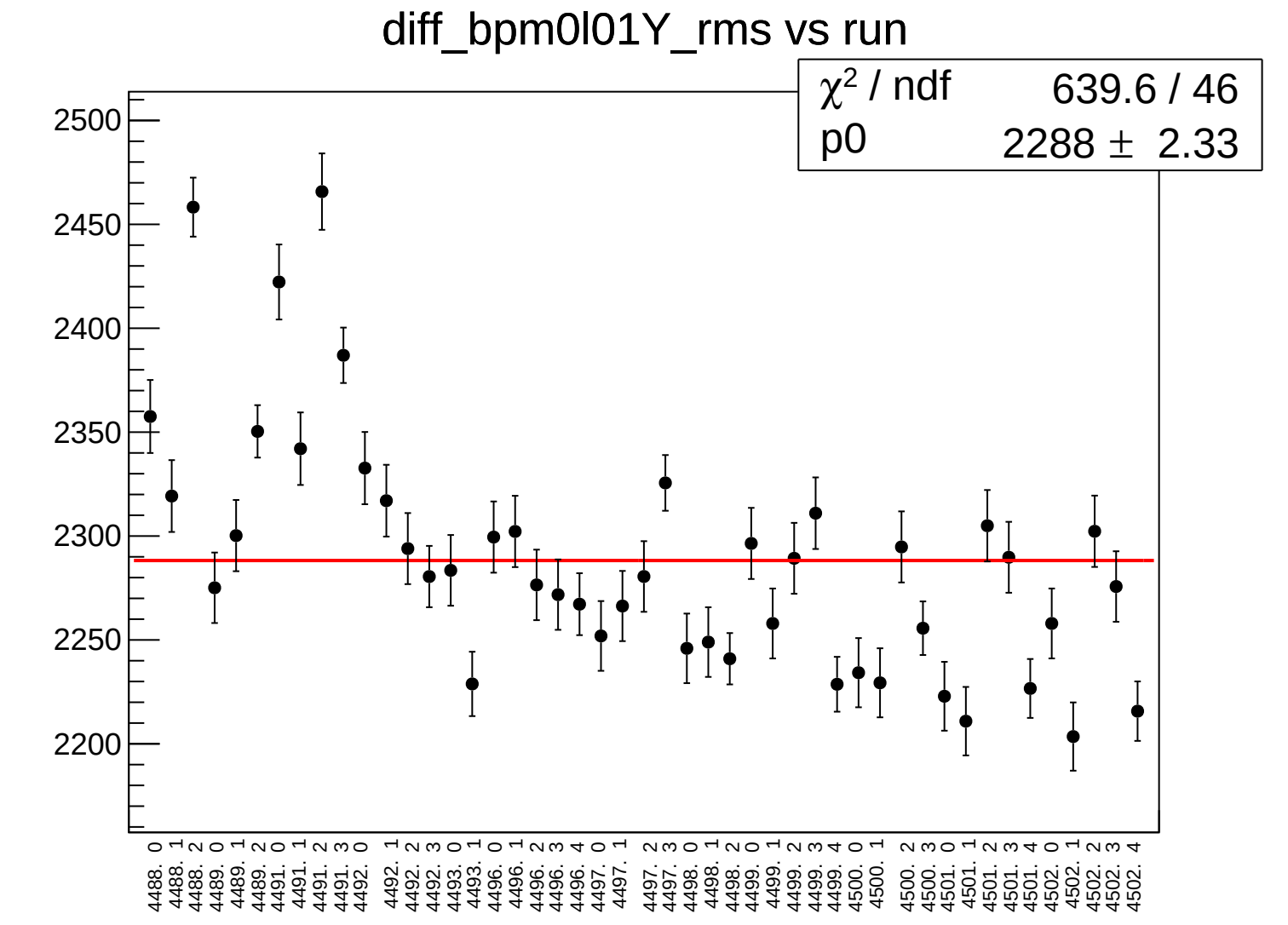

diff_bpm0l01X_mean vs run
χ² / ndf 58.4 / 46
p0 −9.054 ± 13.48
pull
Entries 47
Mean 275.4
Std Dev 255.8

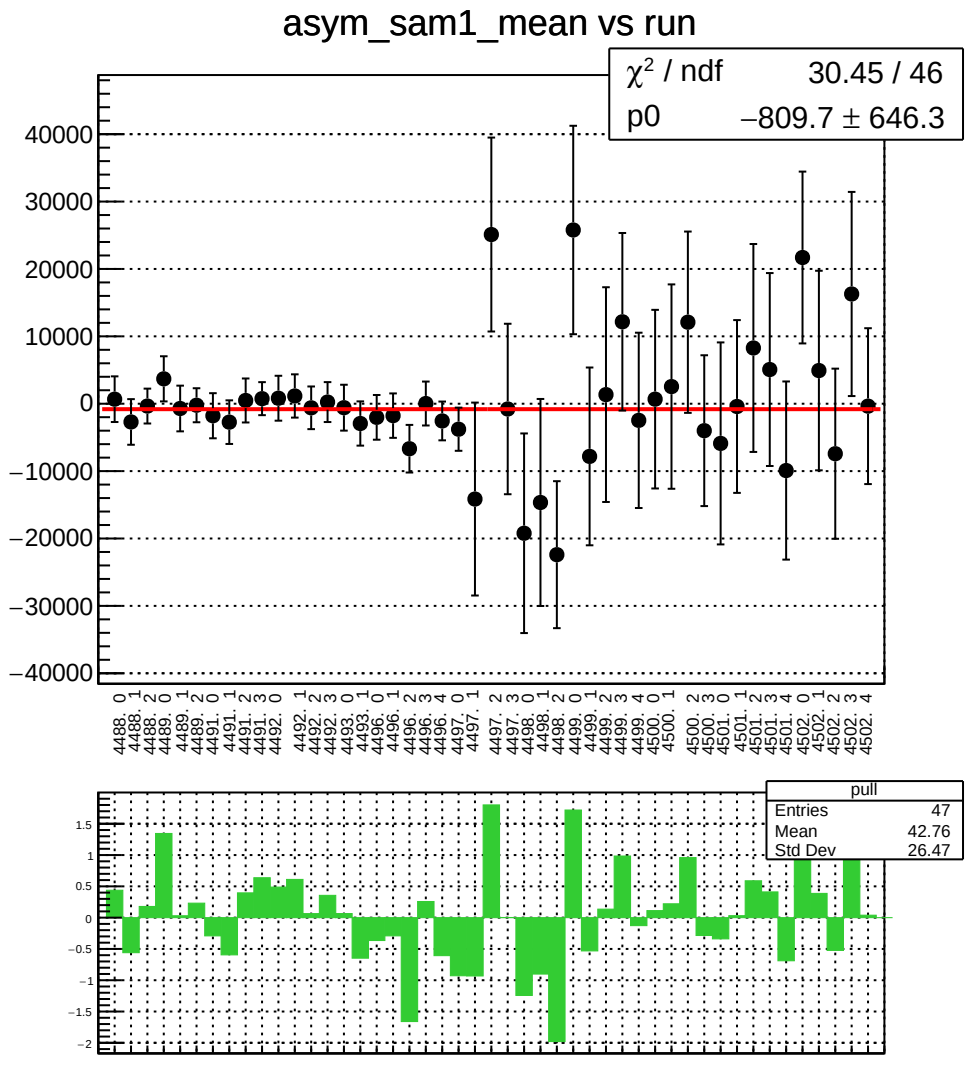

pull1D
Entries 47
Mean 0.009602
Std Dev 1.115

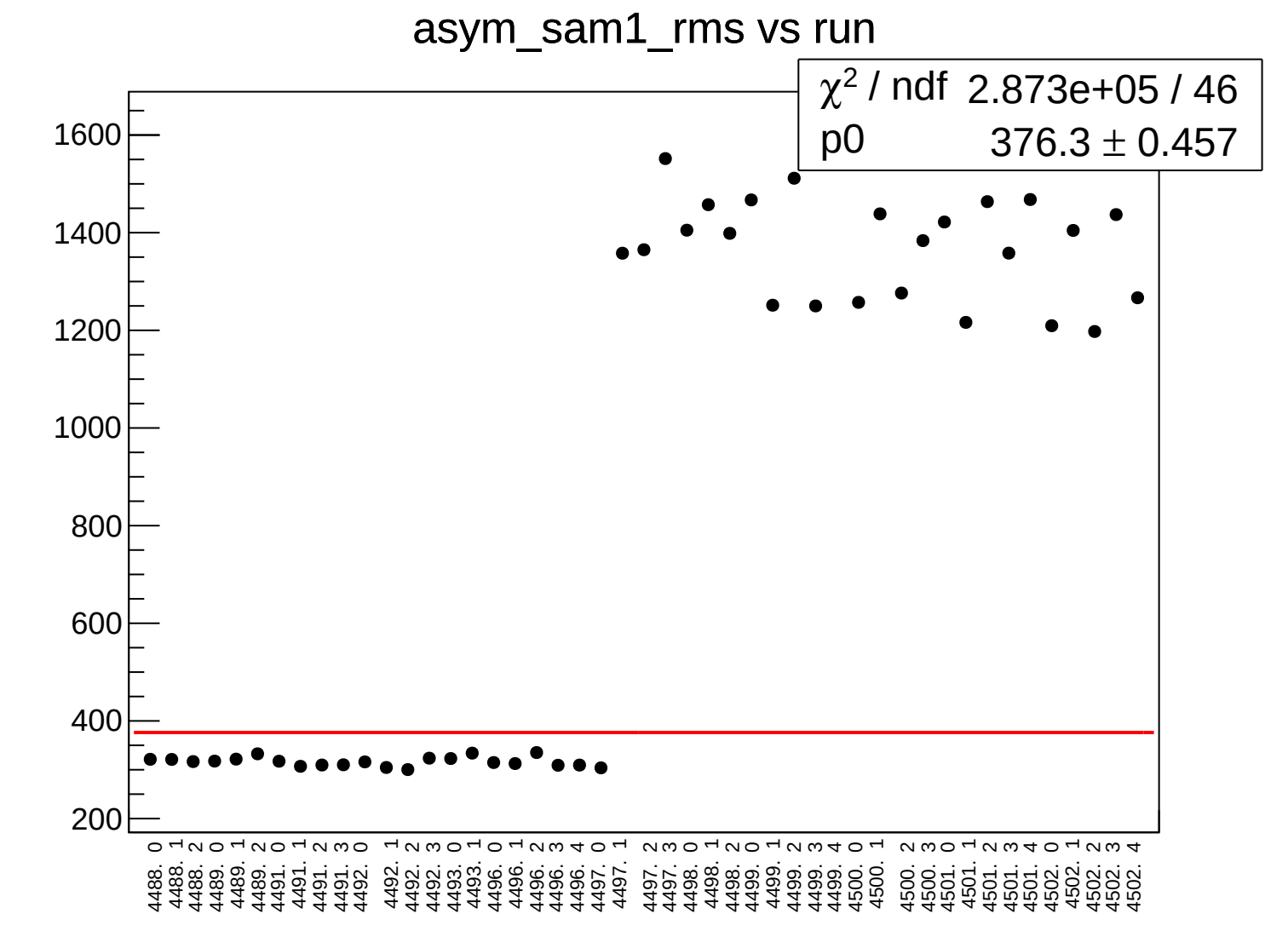

diff_bpm0l01X_rms vs run
χ² / ndf 67.62 / 46
p0 9367 ± 9.535
9600
9500
9400
9300
9200
9100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

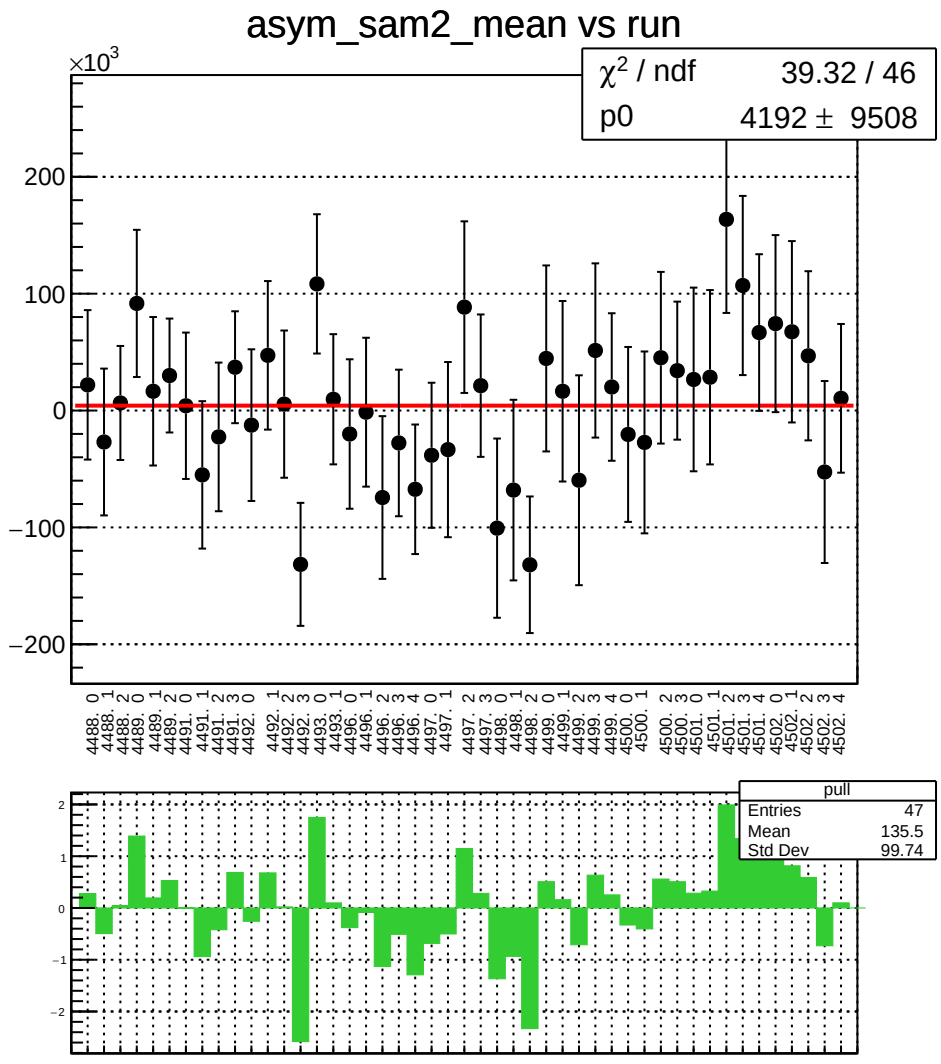

diff_bpm0l01Y_mean vs run
χ² / ndf 53.51 / 46
p0 −5.589 ± 3.295
pull
Entries 47
Mean −73.14
Std Dev 86.83

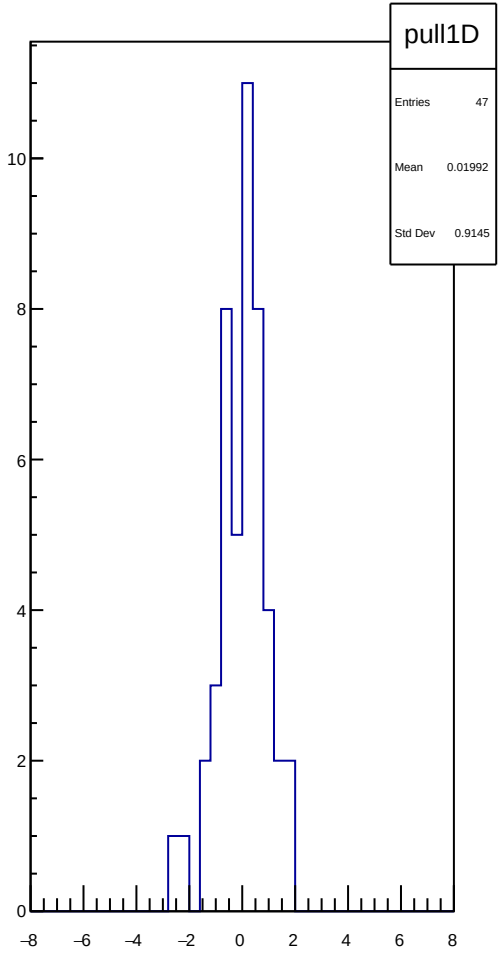

pull1D
Entries 47
Mean 0.007312
Std Dev 1.067

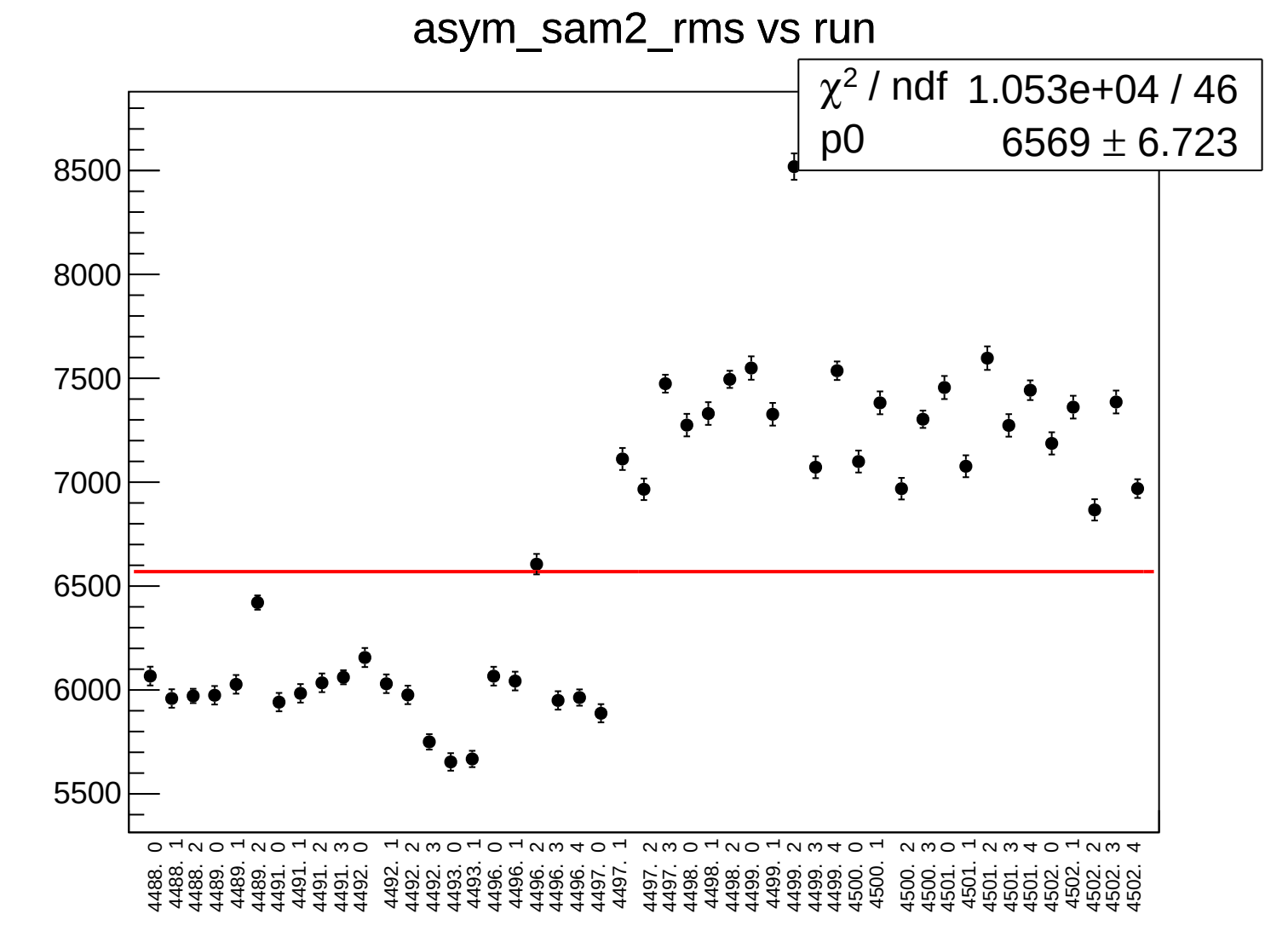

diff_bpm0l01Y_rms vs run
χ² / ndf 639.6 / 46
p0 2288 ± 2.33
2500
2450
2400
2350
2300
2250
2200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

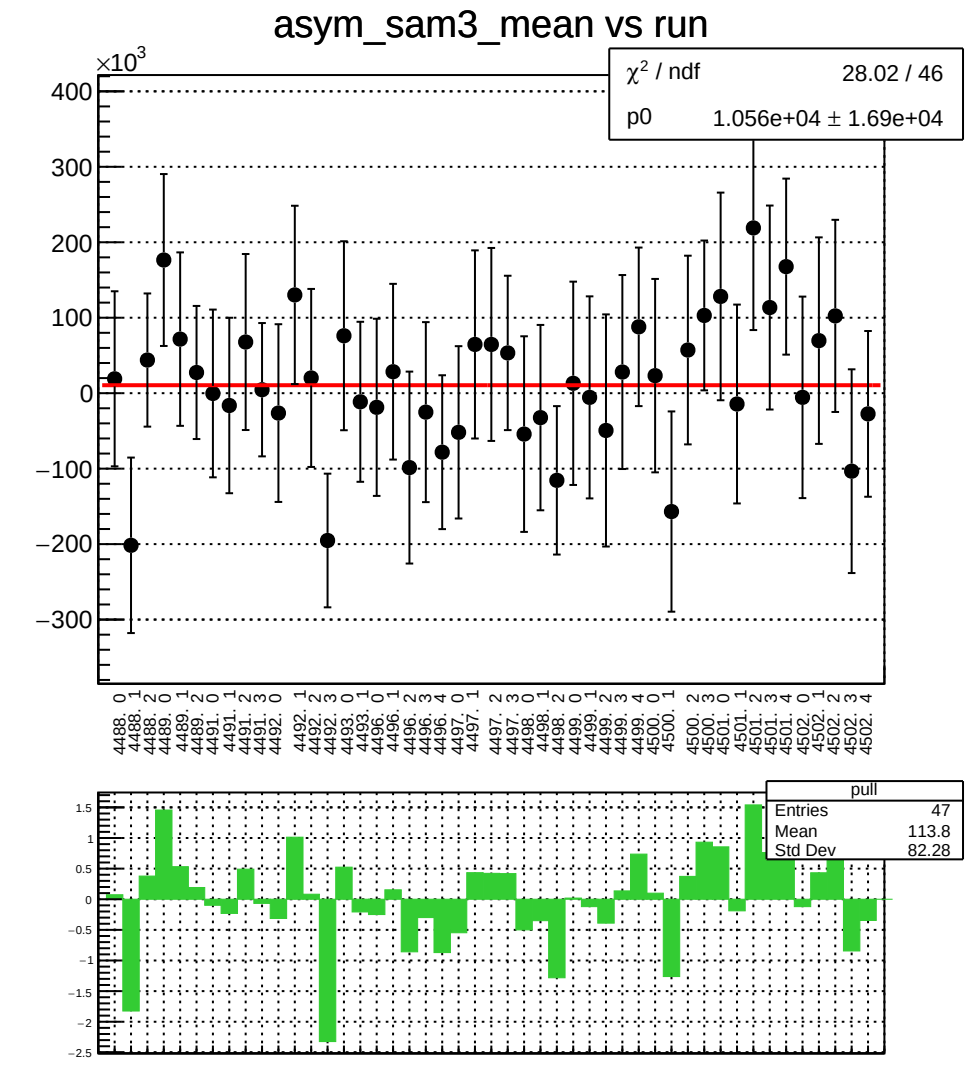

asym_sam1_mean vs run
χ² / ndf 30.45 / 46
p0 −809.7 ± 646.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 42.76
Std Dev 26.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean 0.0402
Std Dev 0.8039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

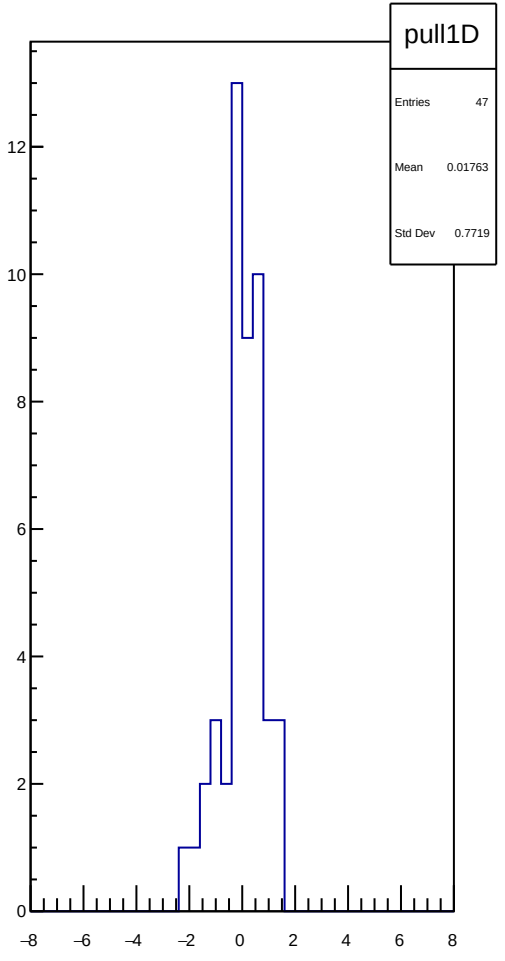

asym_sam1_rms vs run
χ² / ndf 2.873e+05 / 46
p0 376.3 ± 0.457
1600
1400
1200
1000
800
600
400
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

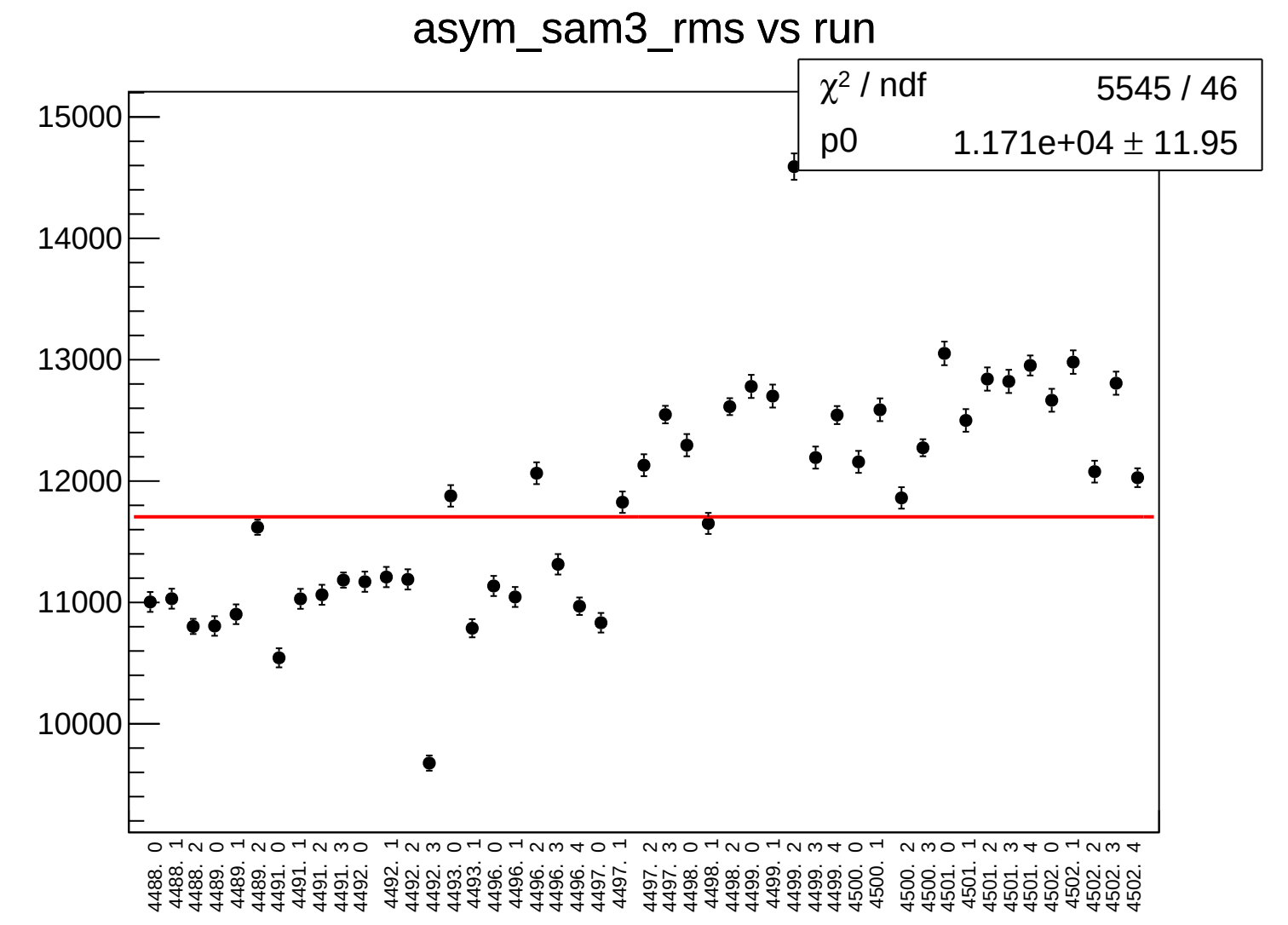

asym_sam2_mean vs run
×10^3
χ^2 / ndf 39.32 / 46
p0 4192 ± 9508
200
100
0
−100
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 135.5
Std Dev 99.74
2
1
0
−1
−2

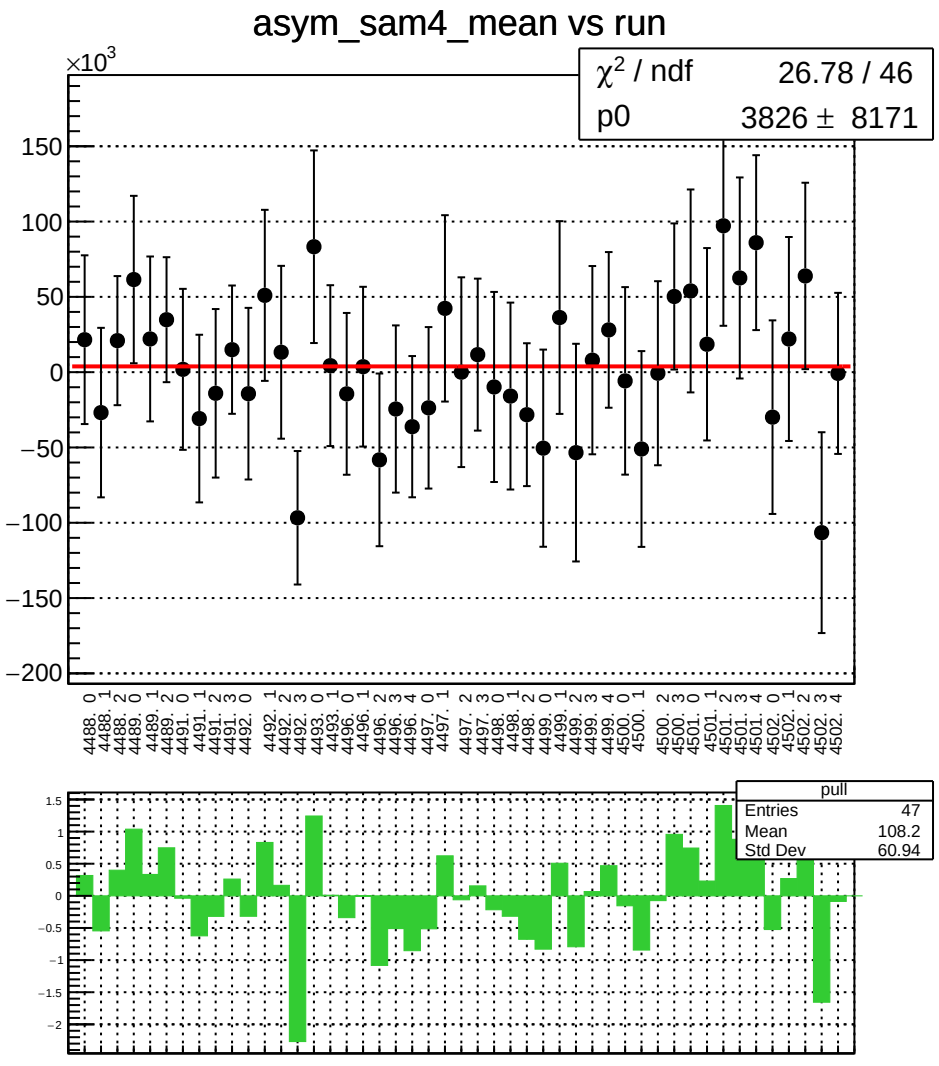

pull1D
Entries 47
Mean 0.01992
Std Dev 0.9145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

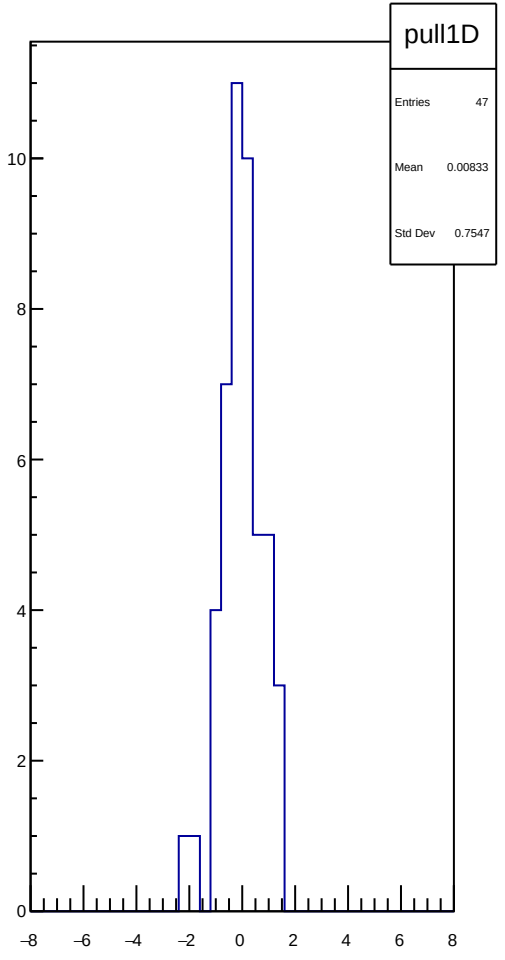

asym_sam2_rms vs run
χ² / ndf 1.053e+04 / 46
p0 6569 ± 6.723
8500
8000
7500
7000
6500
6000
5500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

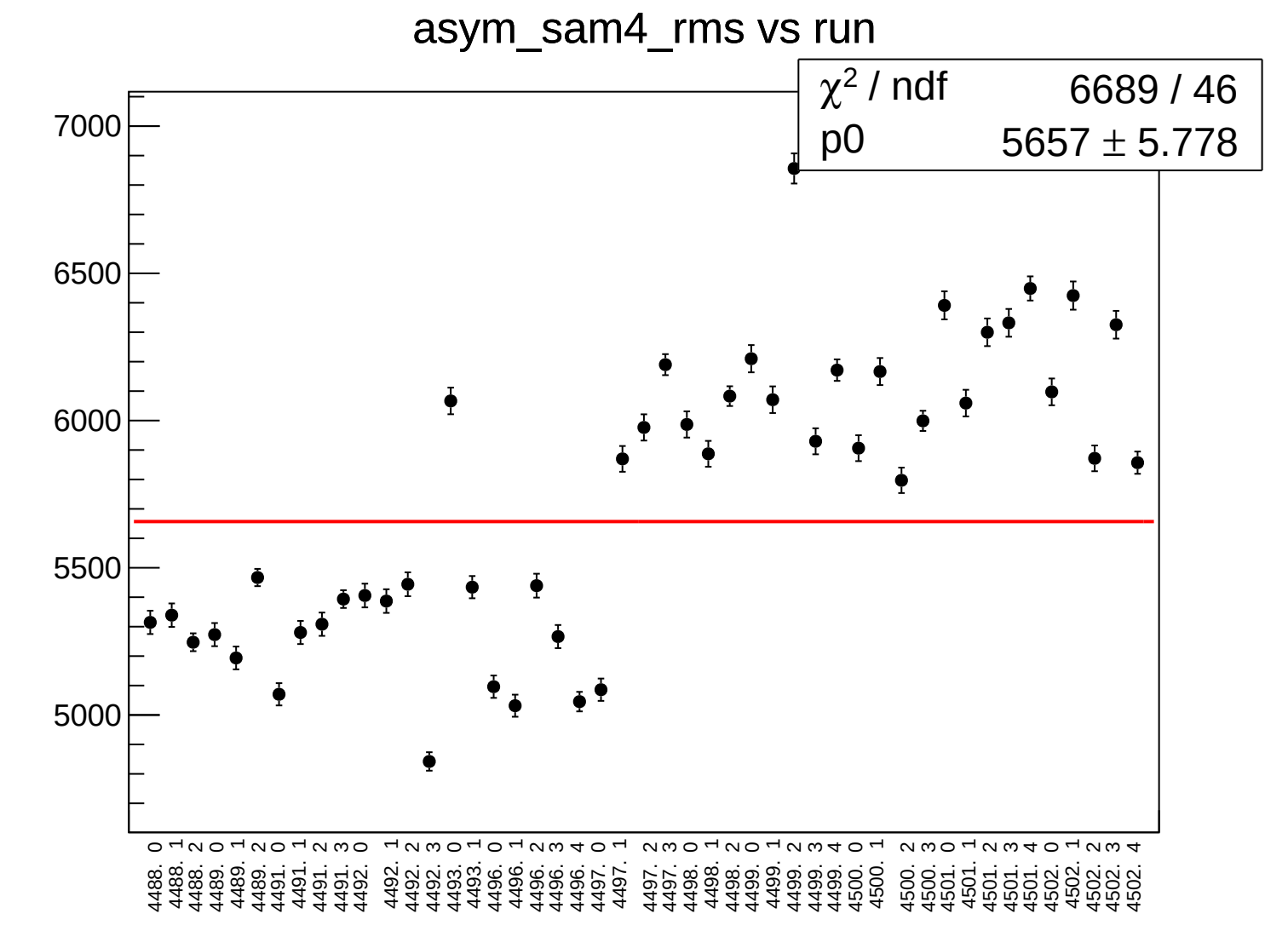

asym_sam3_mean vs run
×10^3
χ² / ndf 28.02 / 46
p0 1.056e+04 ± 1.69e+04
pull
Entries 47
Mean 113.8
Std Dev 82.28

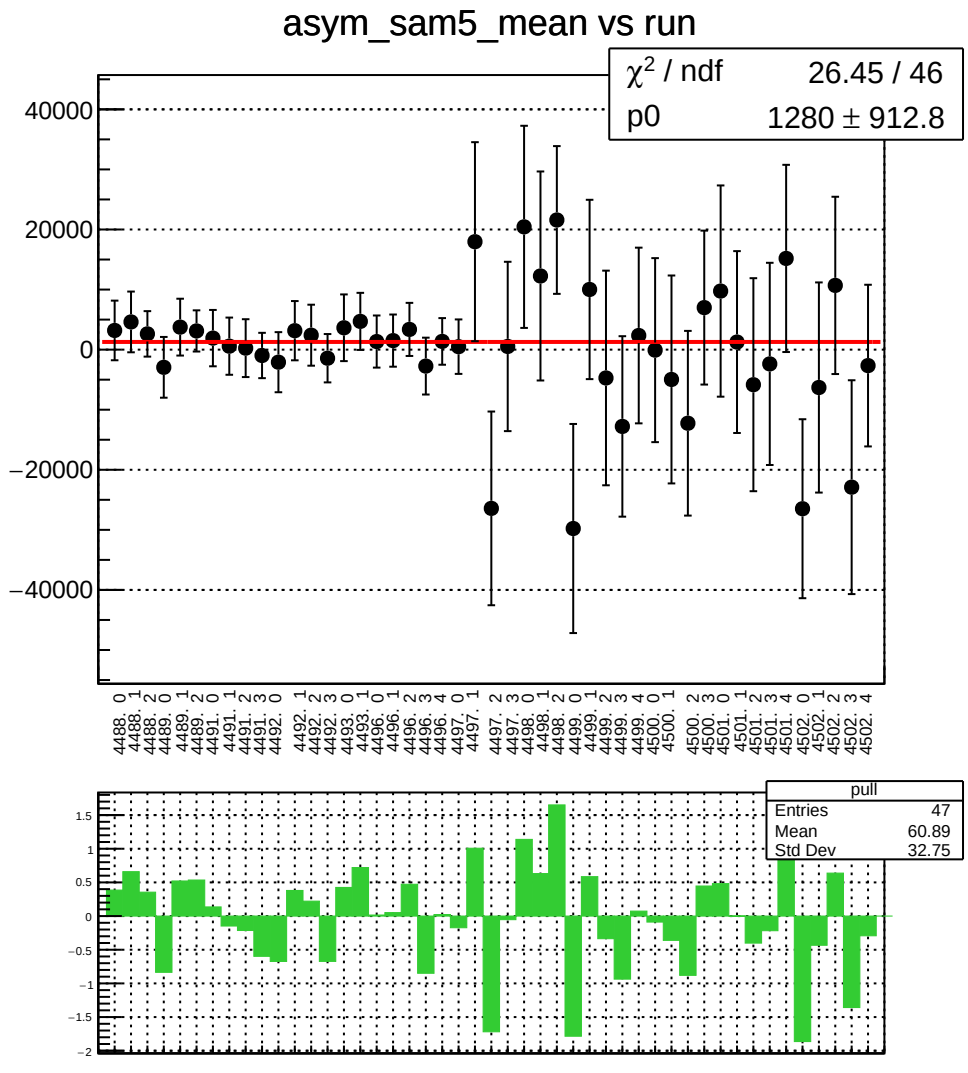

pull1D
Entries 47
Mean 0.01763
Std Dev 0.7719

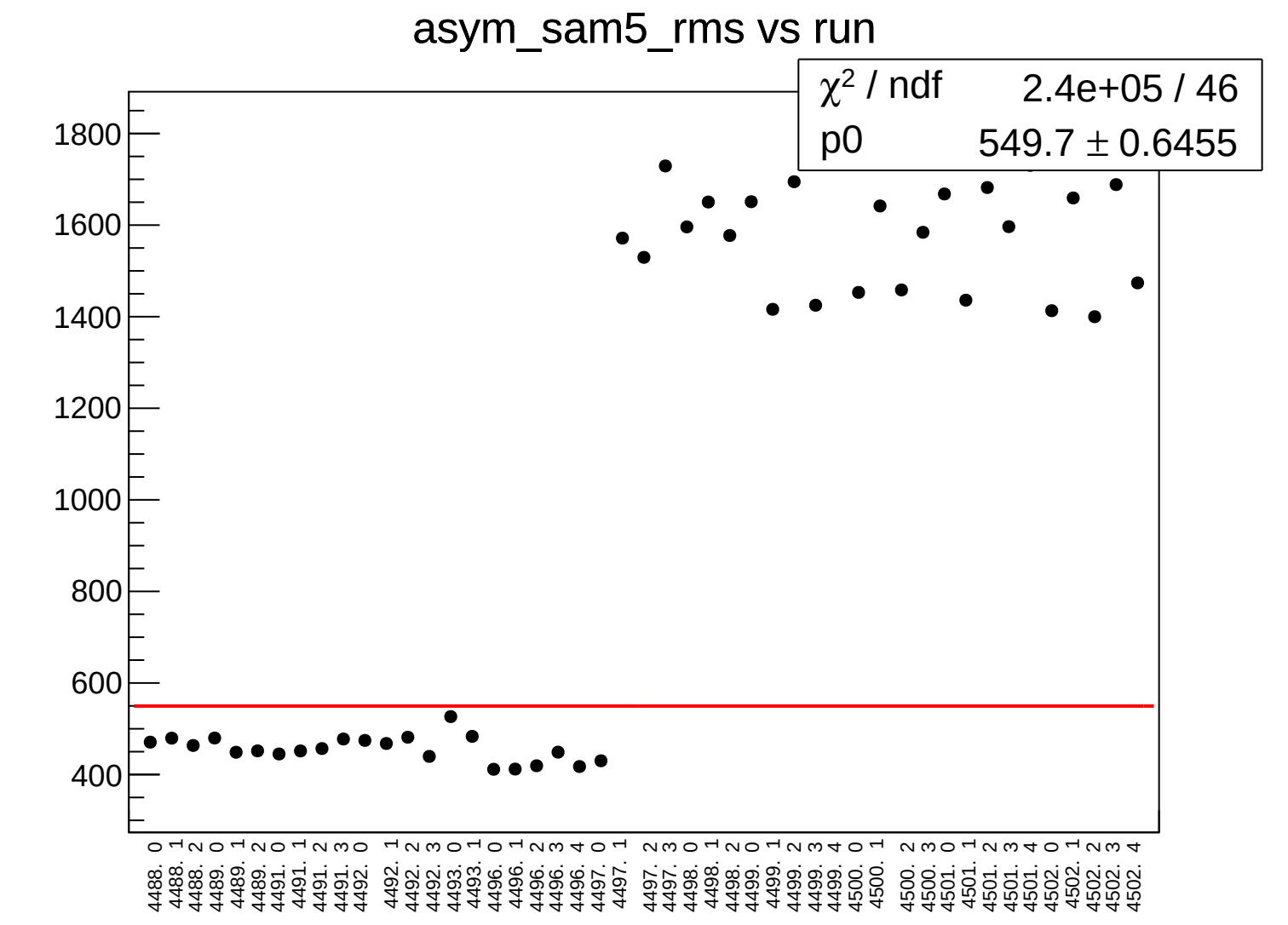

asym_sam3_rms vs run
χ² / ndf 5545 / 46
p0 1.171e+04 ± 11.95
15000
14000
13000
12000
11000
10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

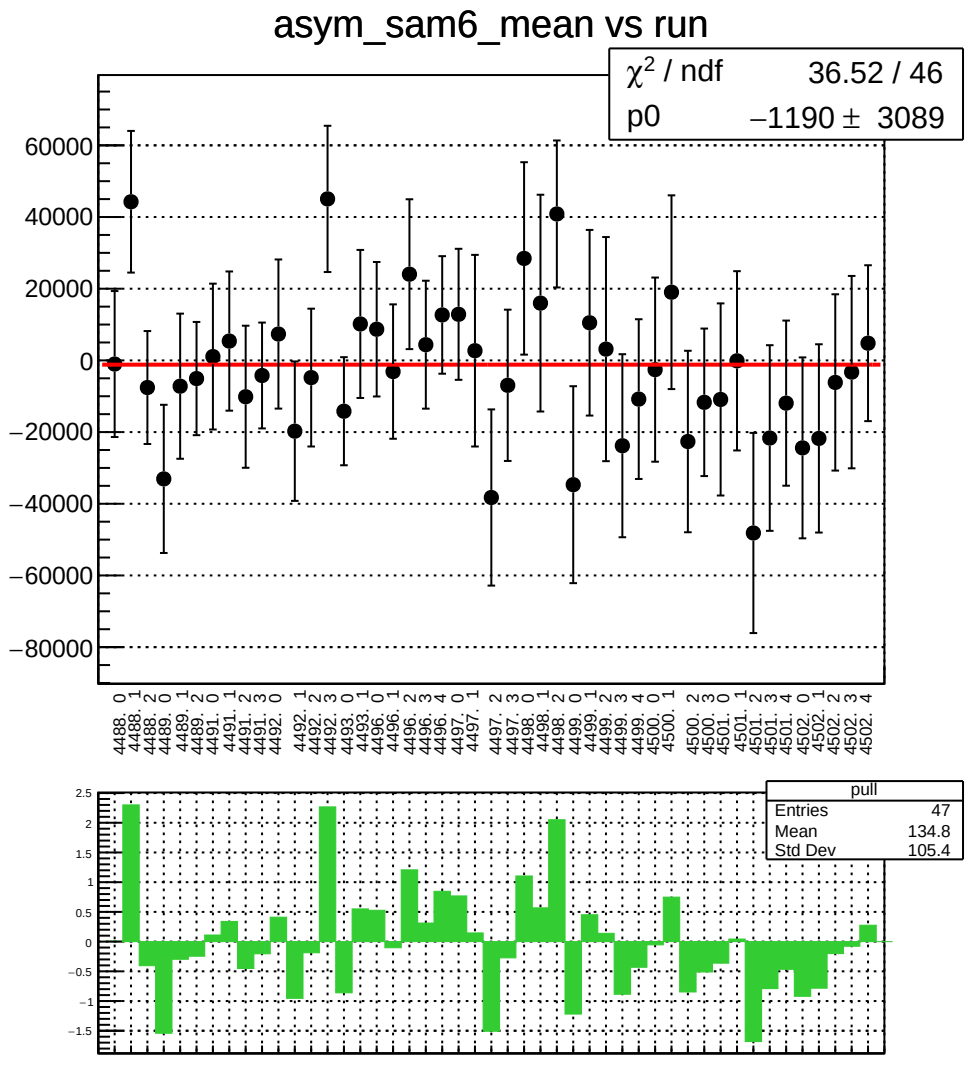

asym_sam4_mean vs run
χ² / ndf 26.78 / 46
p0 3826 ± 8171
×10³
pull
Entries 47
Mean 108.2
Std Dev 60.94

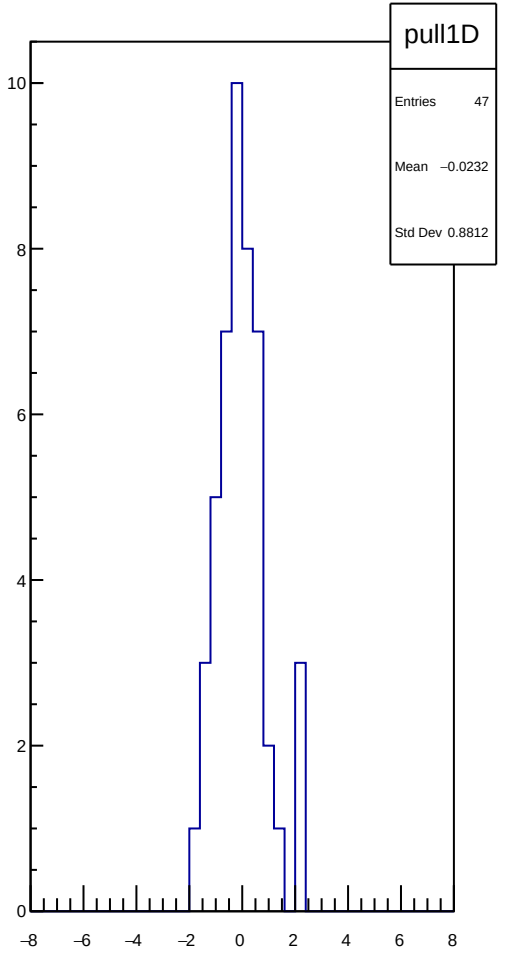

pull1D
Entries 47
Mean 0.00833
Std Dev 0.7547

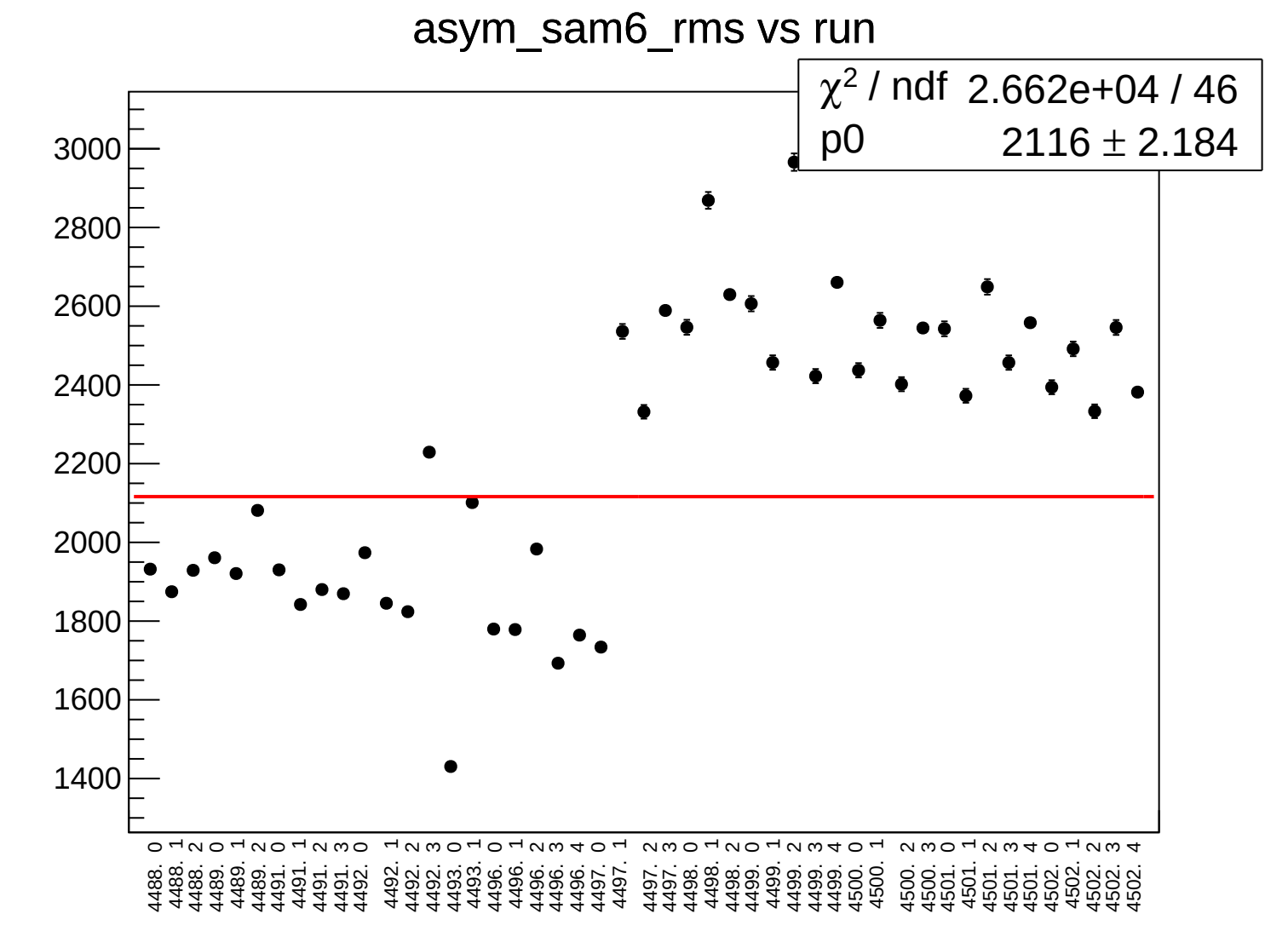

asym_sam4_rms vs run
χ^2 / ndf 6689 / 46
p0 5657 ± 5.778
7000
6500
6000
5500
5000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

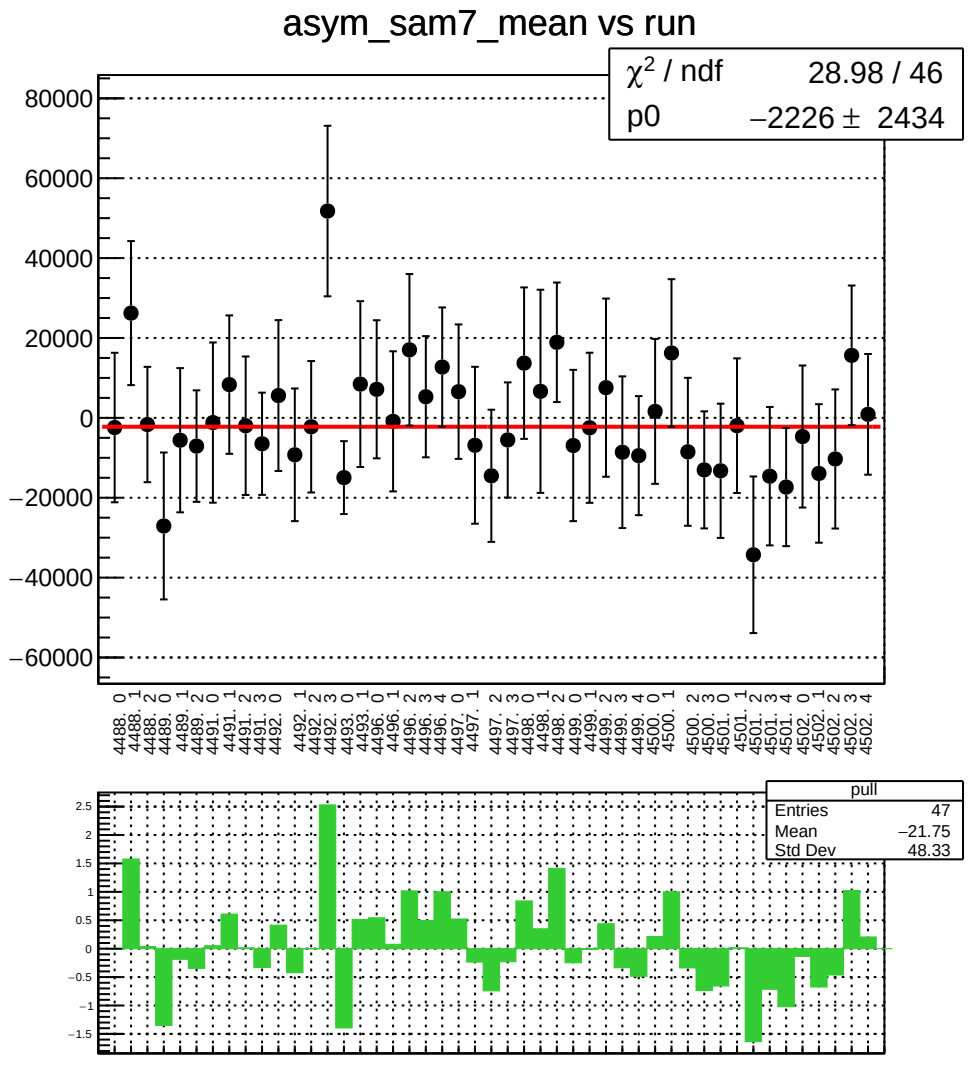

asym_sam5_mean vs run
χ² / ndf 26.45 / 46
p0 1280 ± 912.8
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 60.89
Std Dev 32.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.05198
Std Dev 0.7483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

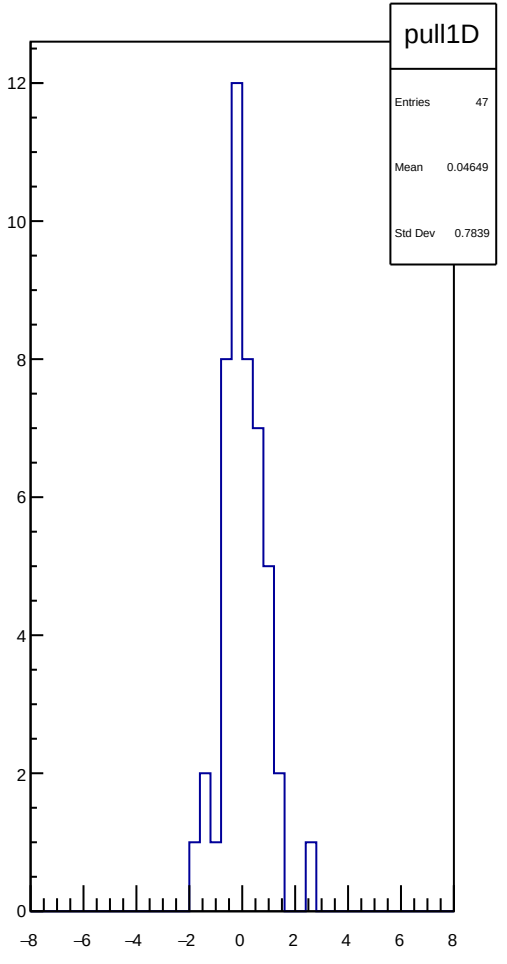

asym_sam5_rms vs run
χ² / ndf 2.4e+05 / 46
p0 549.7 ± 0.6455
1800
1600
1400
1200
1000
800
600
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

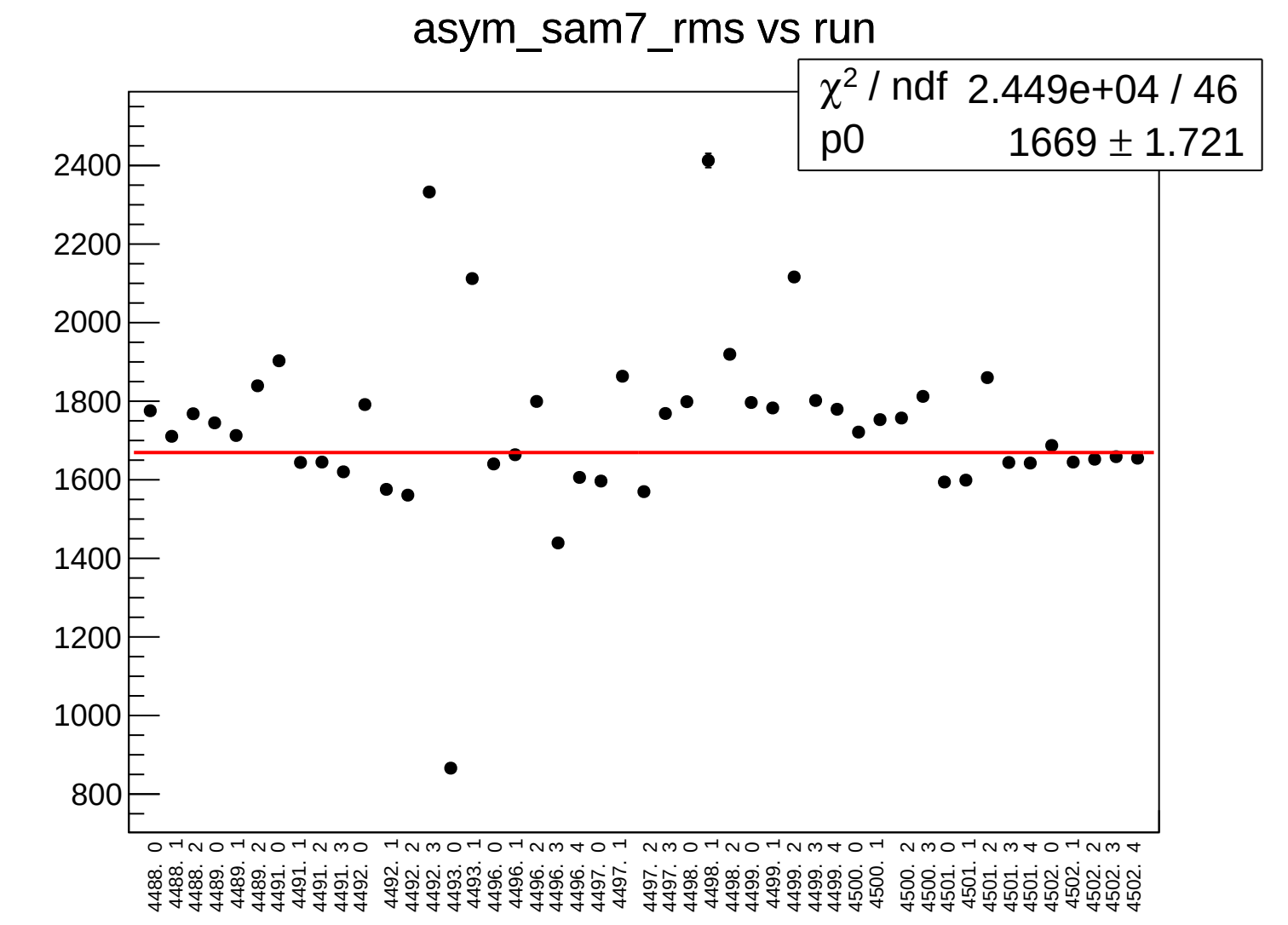

asym_sam6_mean vs run
χ² / ndf 36.52 / 46
p0 −1190 ± 3089
60000
40000
20000
0
−20000
−40000
−60000
−80000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 134.8
Std Dev 105.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

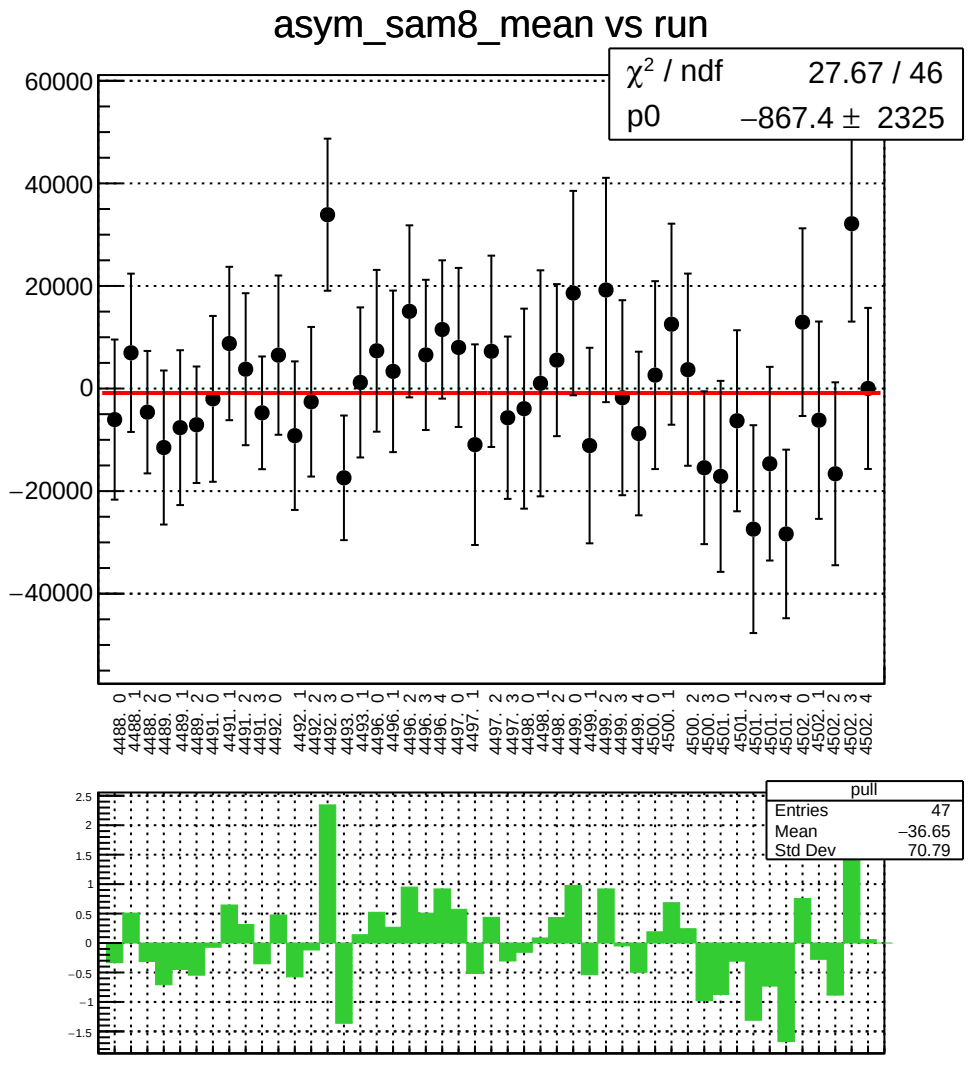

pull1D
Entries 47
Mean −0.0232
Std Dev 0.8812
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

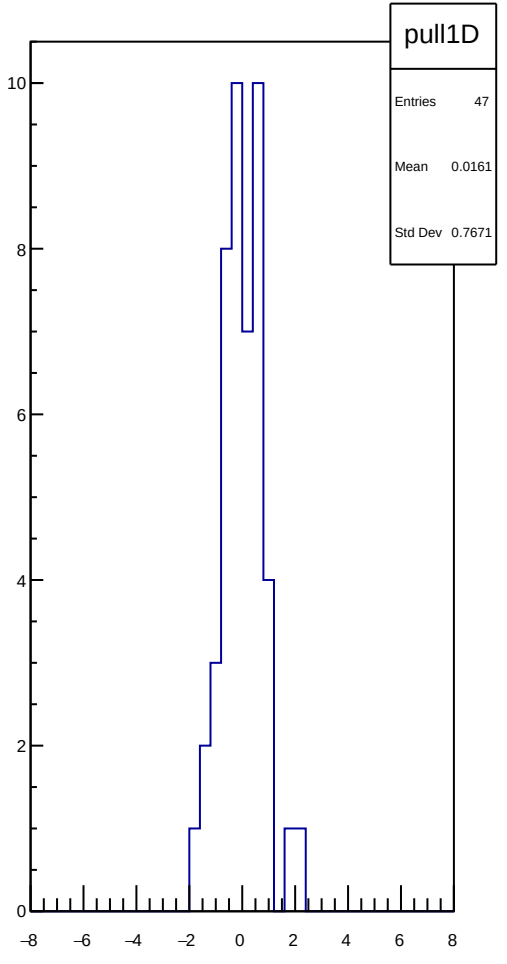

asym_sam6_rms vs run
χ² / ndf 2.662e+04 / 46
p0 2116 ± 2.184
3000
2800
2600
2400
2200
2000
1800
1600
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

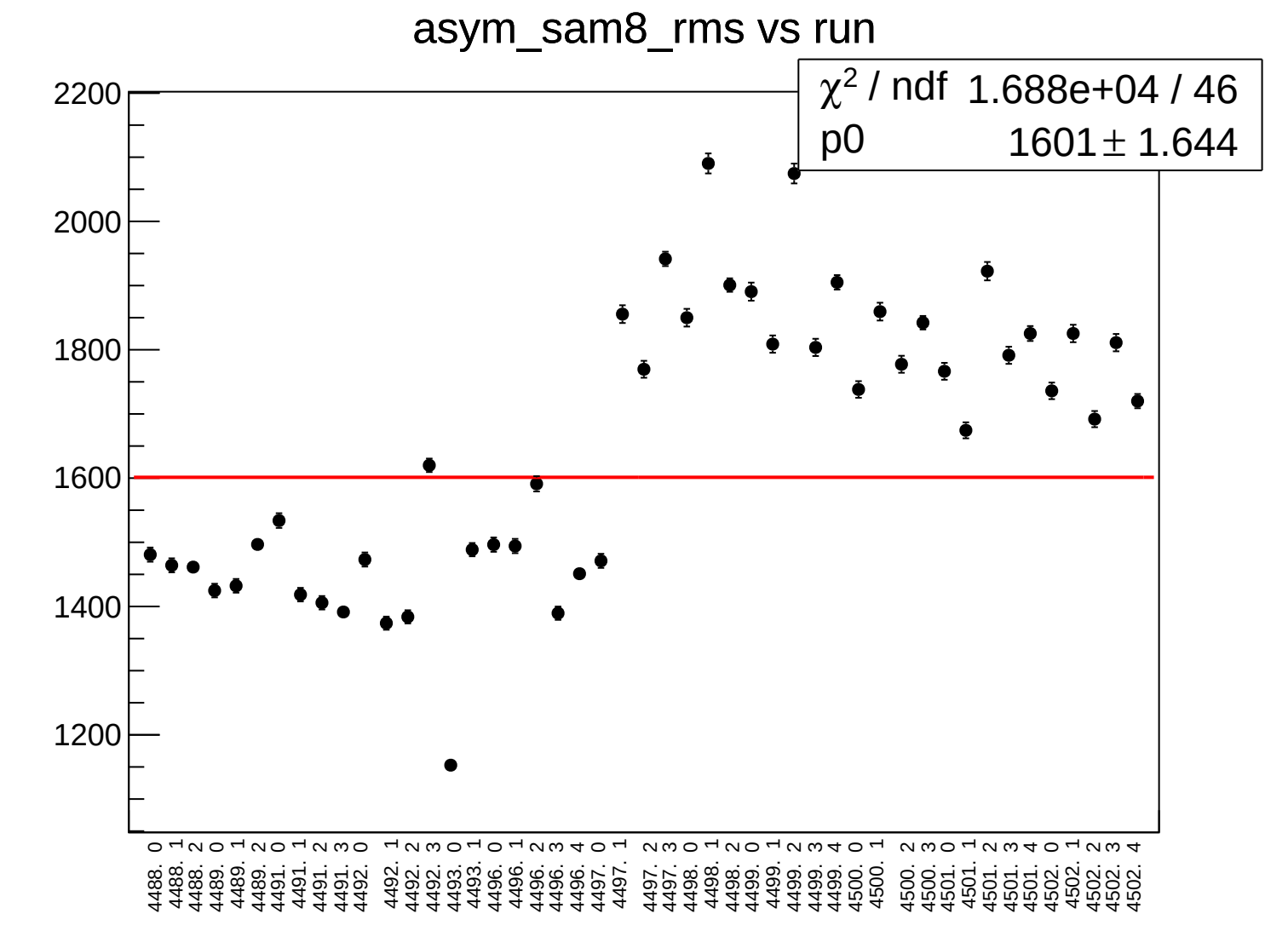

asym_sam7_mean vs run
χ² / ndf 28.98 / 46
p0 −2226 ± 2434
80000
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −21.75
Std Dev 48.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

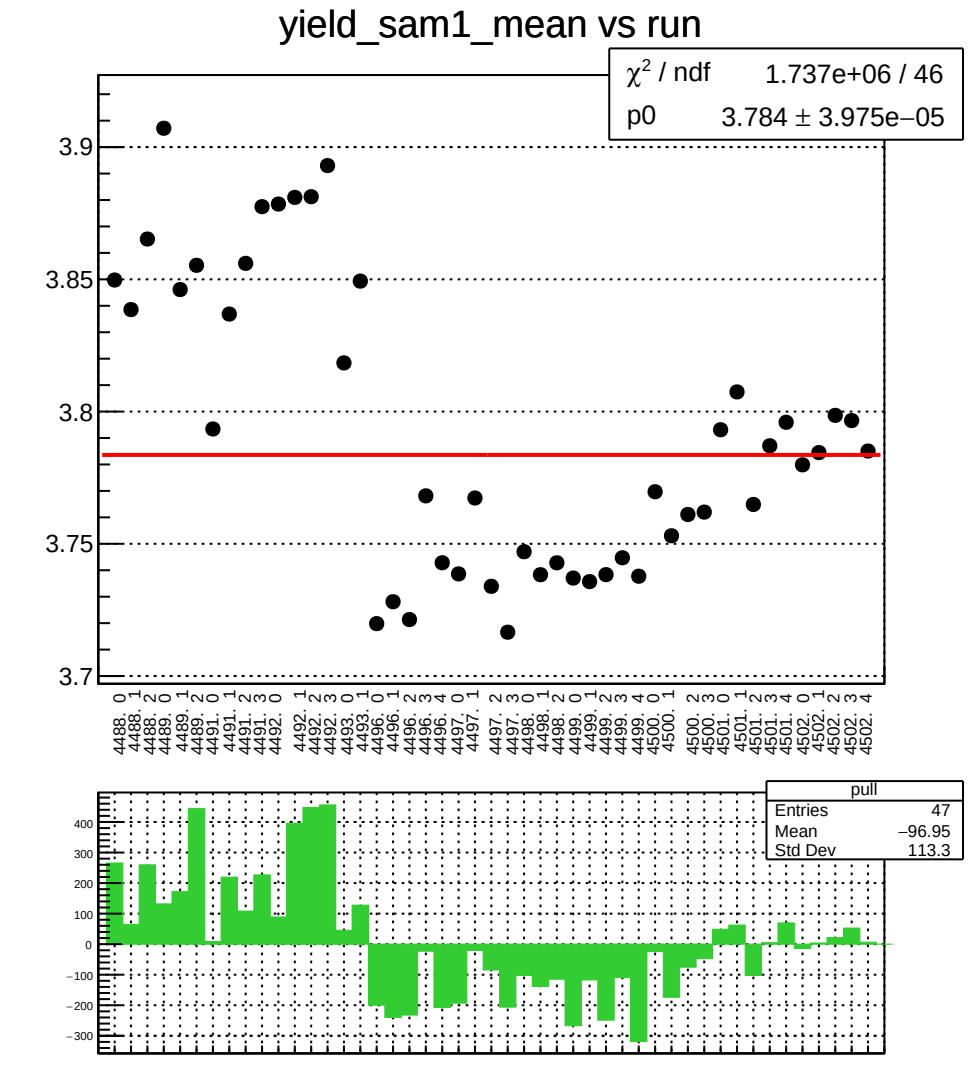

pull1D
Entries 47
Mean 0.04649
Std Dev 0.7839
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

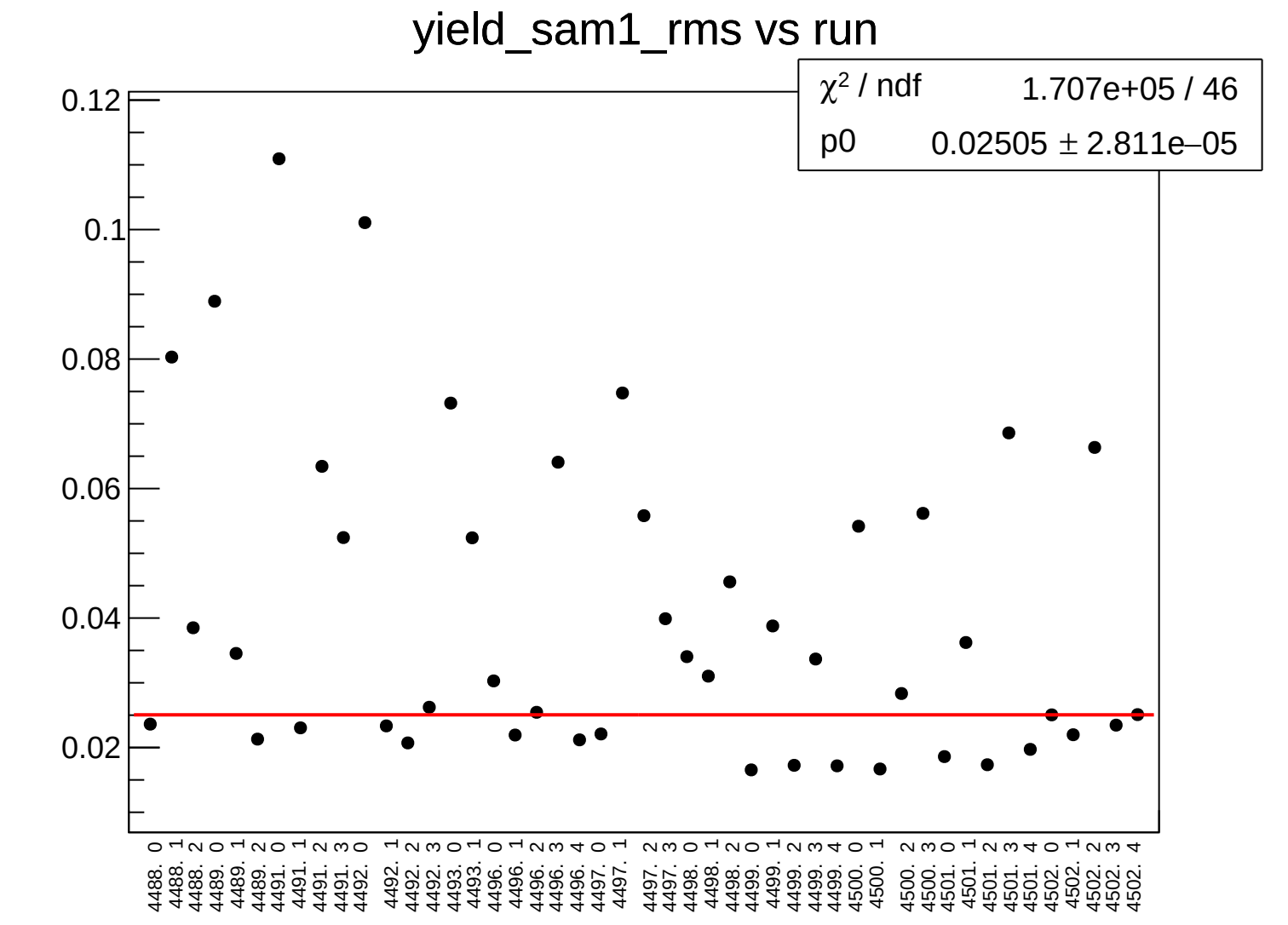

asym_sam7_rms vs run
χ² / ndf 2.449e+04 / 46
p0 1669 ± 1.721
2400
2200
2000
1800
1600
1400
1200
1000
800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

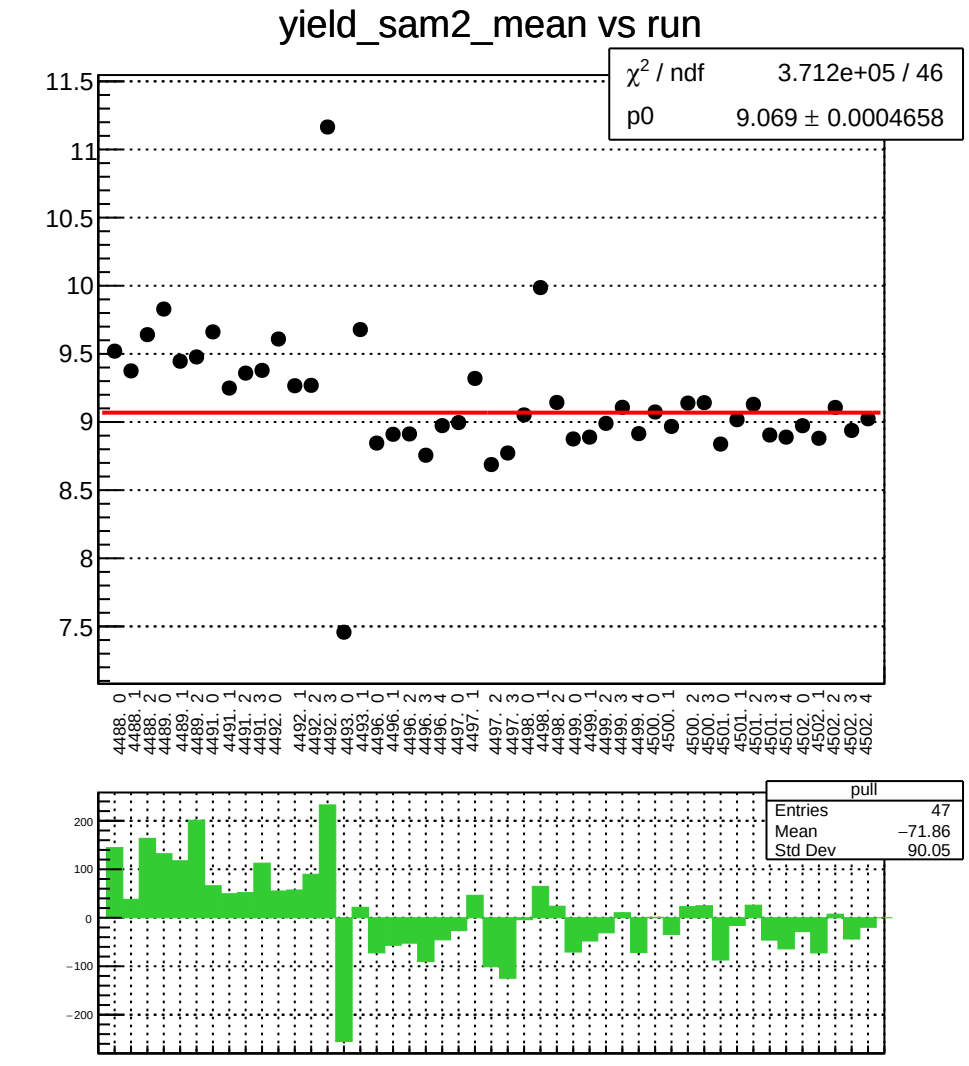

asym_sam8_mean vs run
χ² / ndf 27.67 / 46
p0 −867.4 ± 2325
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −36.65
Std Dev 70.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

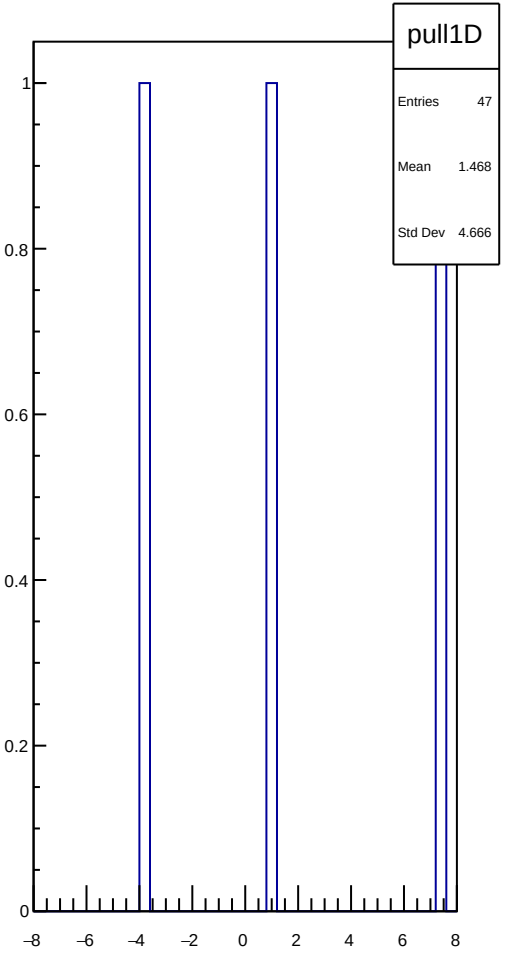

pull1D
Entries 47
Mean 0.0161
Std Dev 0.7671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

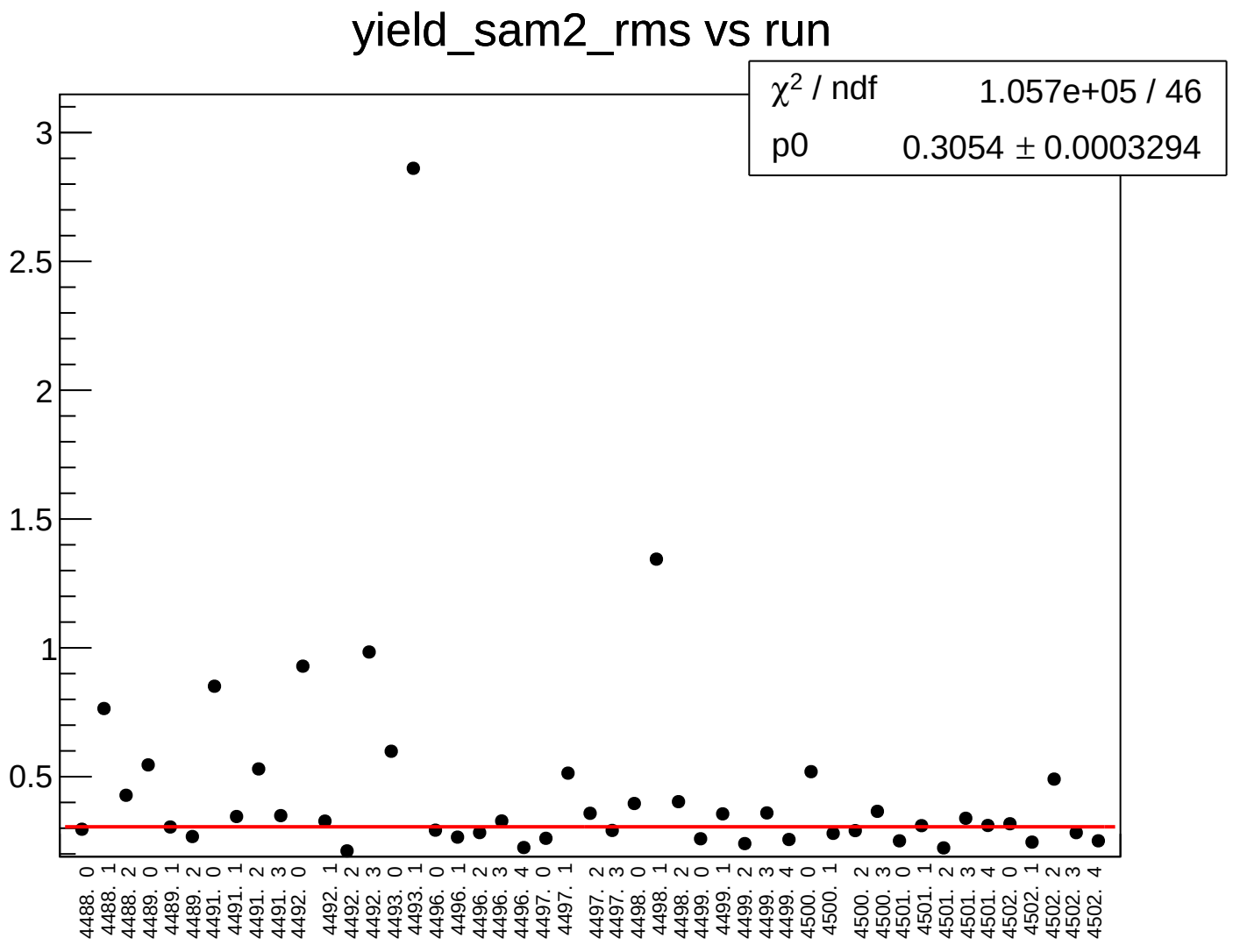

asym_sam8_rms vs run
χ² / ndf 1.688e+04 / 46
p0 1601 ± 1.644
2200
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

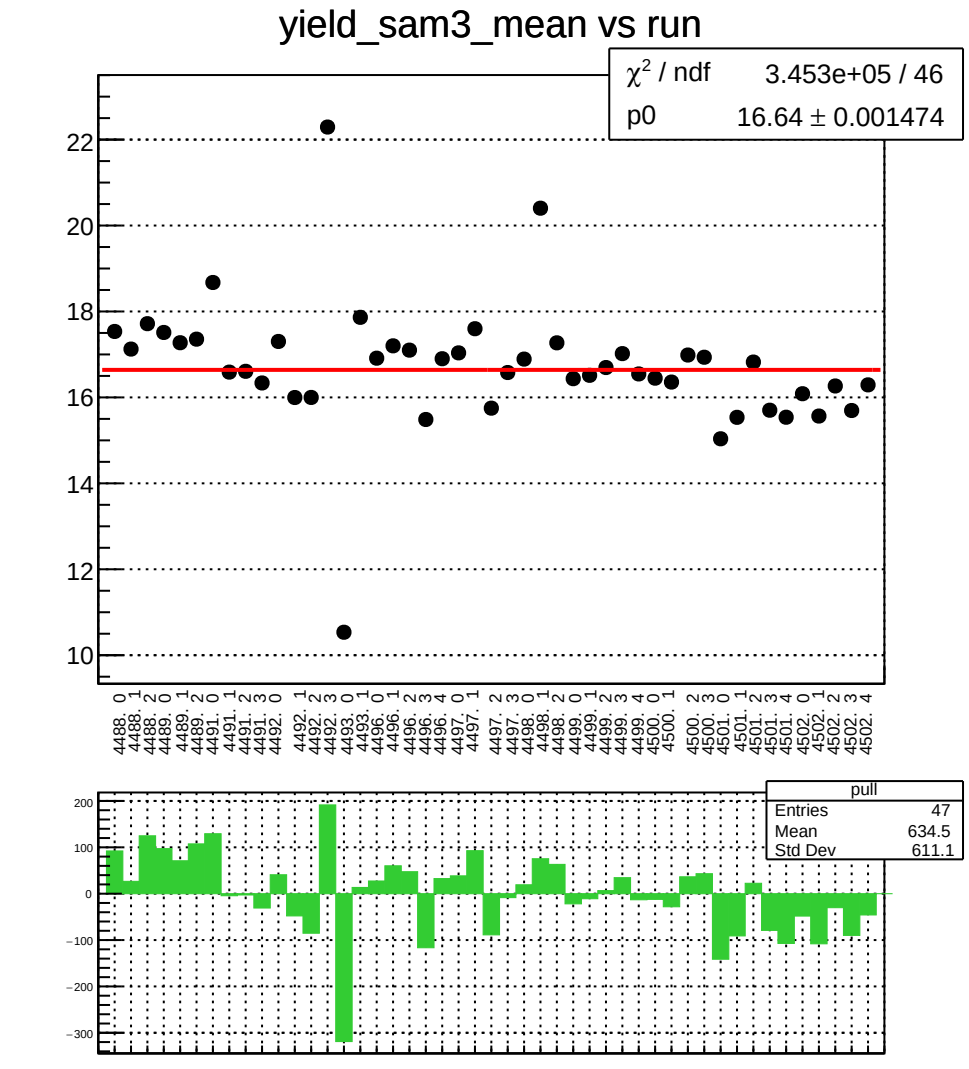

yield_sam1_mean vs run
χ² / ndf 1.737e+06 / 46
p0 3.784 ± 3.975e−05
3.9
3.85
3.8
3.75
3.7
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −96.95
Std Dev 113.3
400
300
200
100
0
−100
−200
−300
pull1D
Entries 47
Mean 5.022
Std Dev 1.069
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

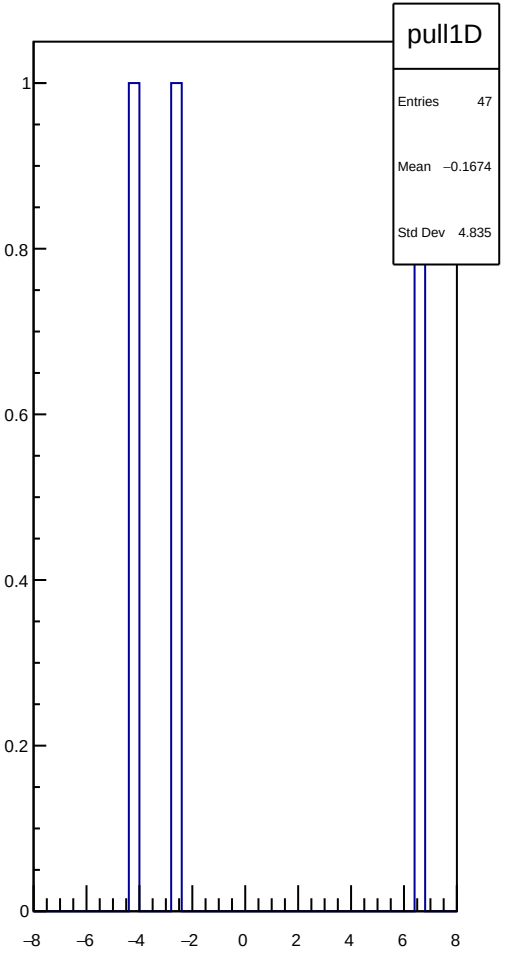

yield_sam1_rms vs run
χ² / ndf 1.707e+05 / 46
p0 0.02505 ± 2.811e–05
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

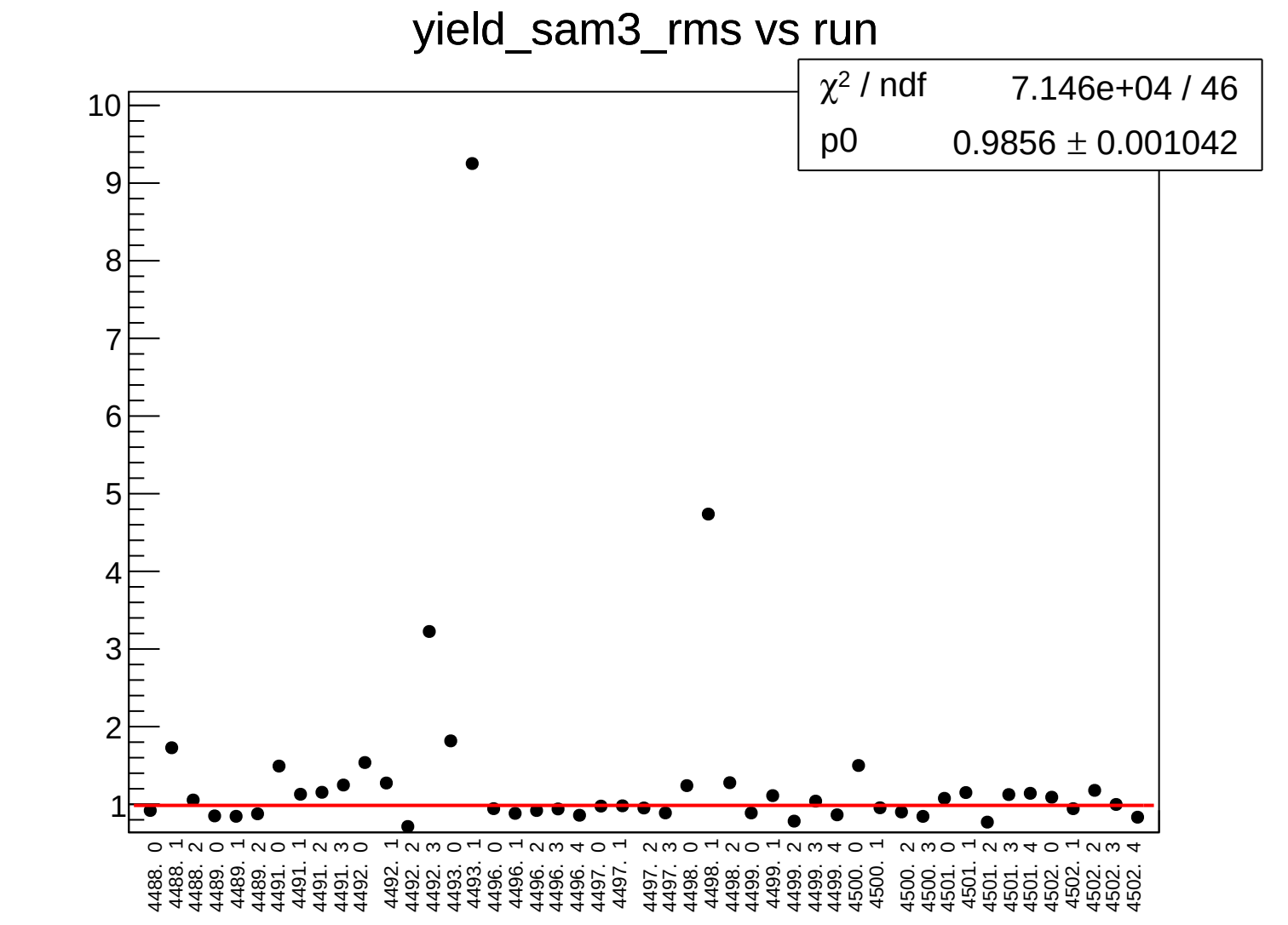

yield_sam2_mean vs run
χ² / ndf 3.712e+05 / 46
p0 9.069 ± 0.0004658
pull
Entries 47
Mean −71.86
Std Dev 90.05

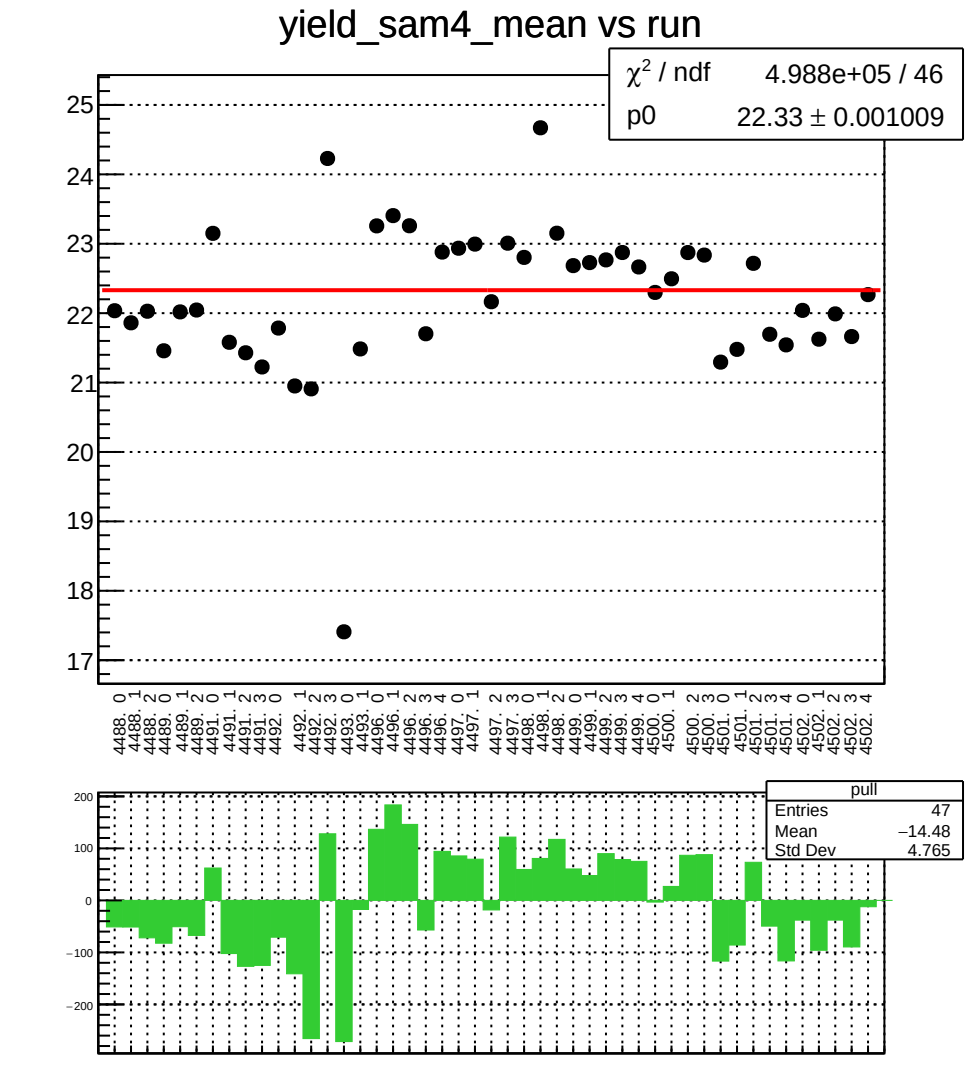

pull1D
Entries 47
Mean 1.468
Std Dev 4.666

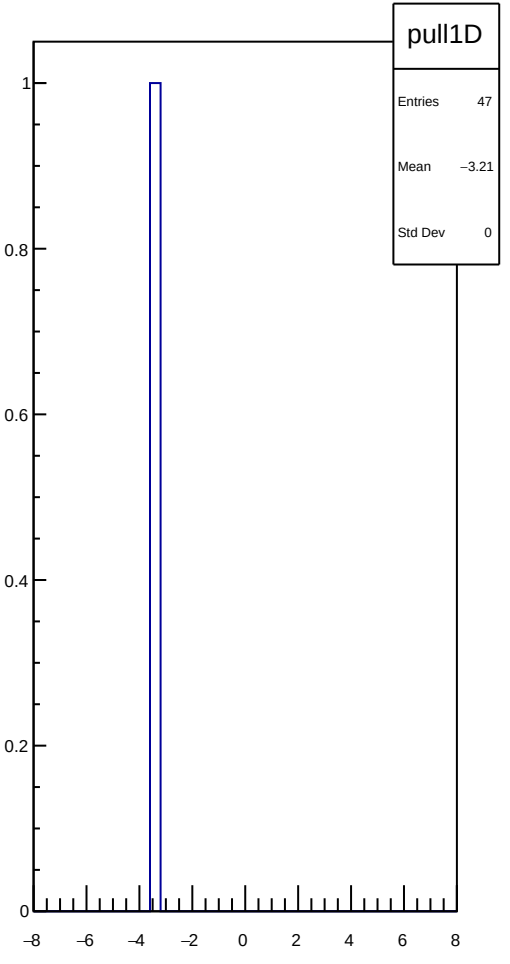

yield_sam2_rms vs run
χ² / ndf 1.057e+05 / 46
p0 0.3054 ± 0.0003294
3
2.5
2
1.5
1
0.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

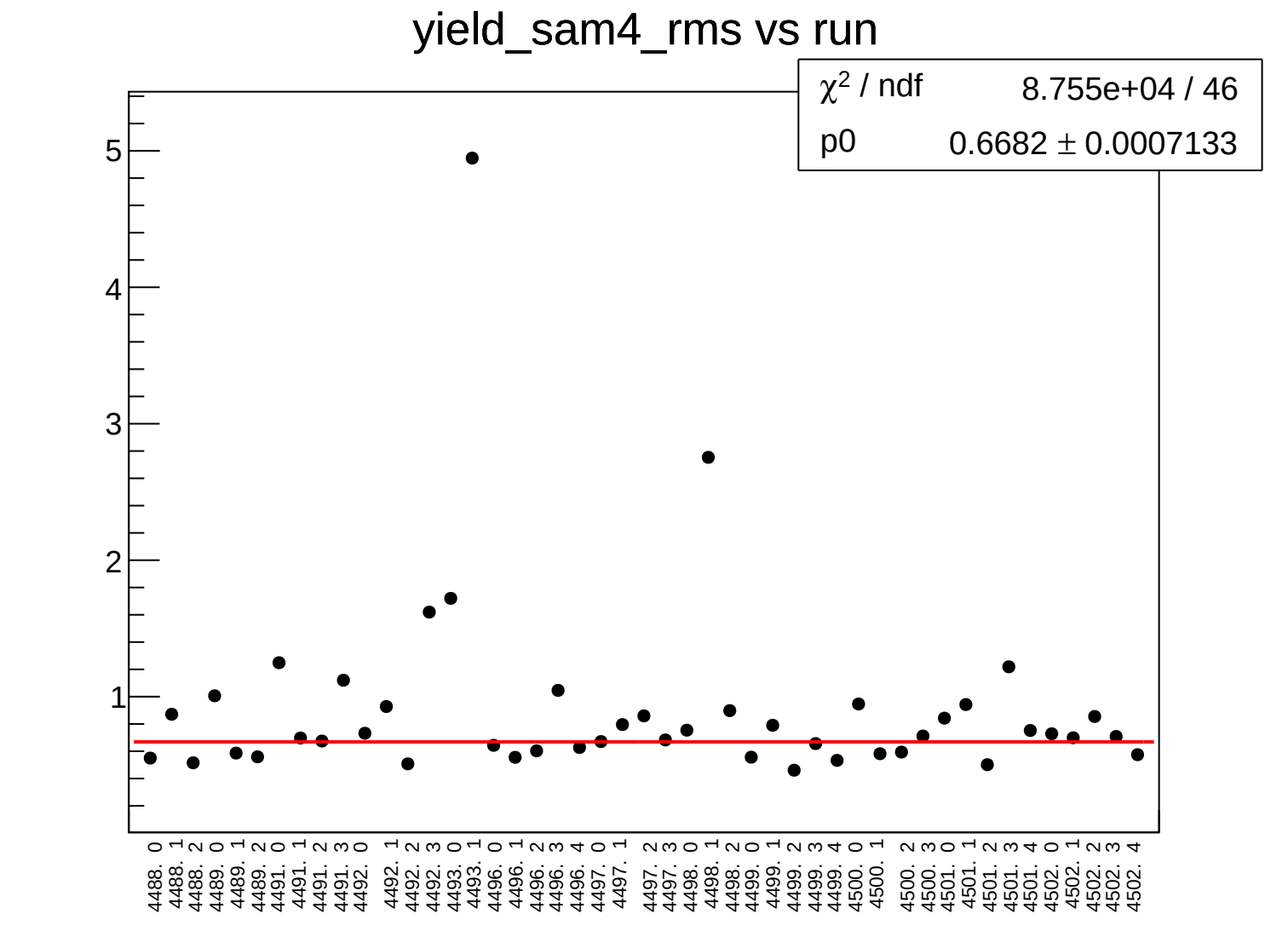

yield_sam3_mean vs run
χ² / ndf 3.453e+05 / 46
p0 16.64 ± 0.001474
22
20
18
16
14
12
10
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 634.5
Std Dev 611.1
200
100
0
−100
−200
−300

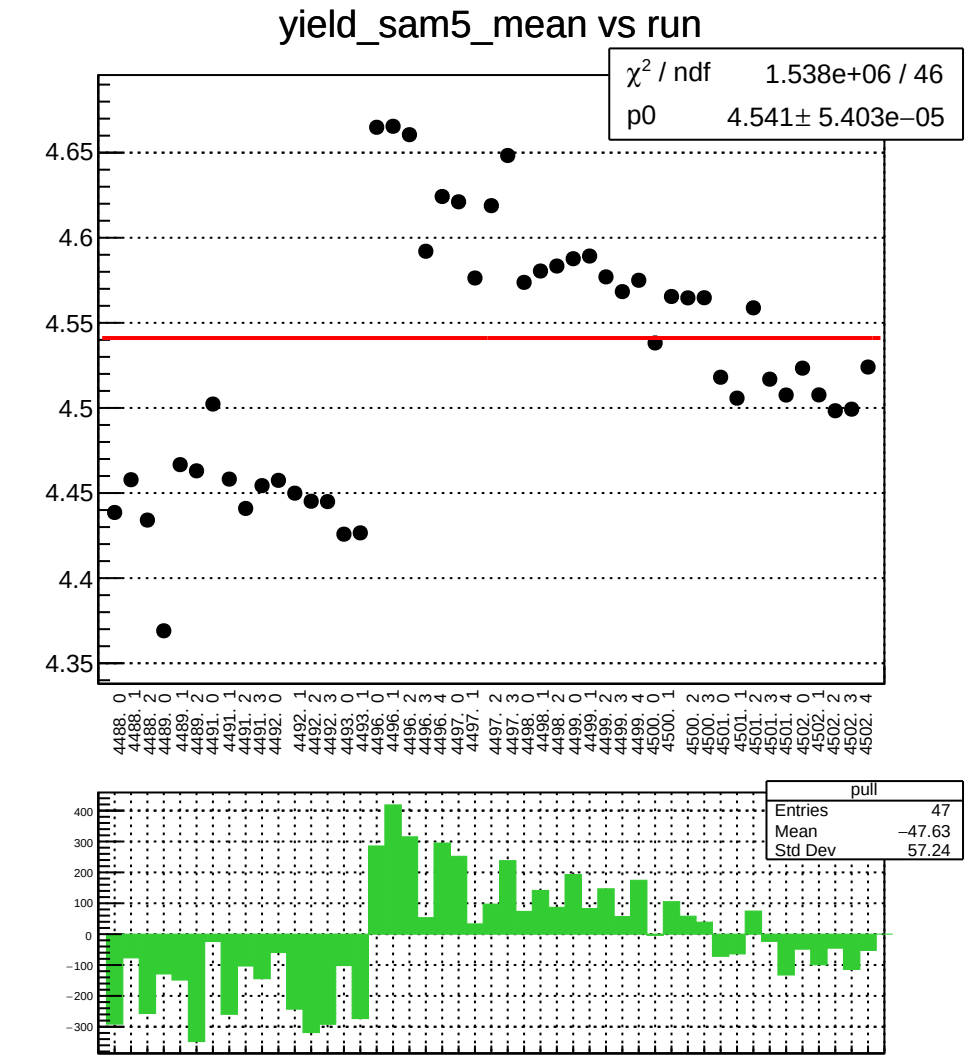

pull1D
Entries 47
Mean −0.1674
Std Dev 4.835
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

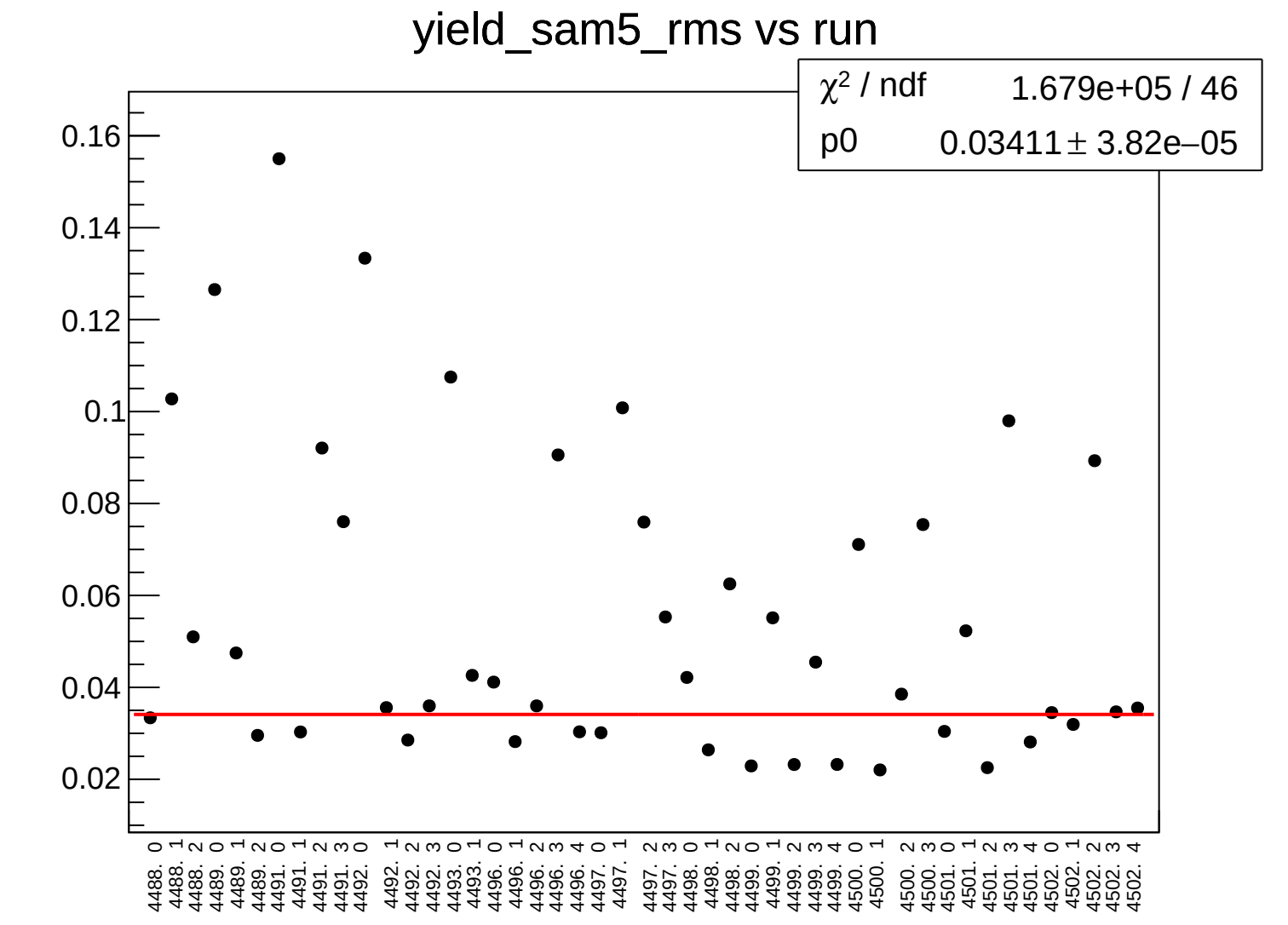

yield_sam3_rms vs run
χ² / ndf 7.146e+04 / 46
p0 0.9856 ± 0.001042
10
9
8
7
6
5
4
3
2
1
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

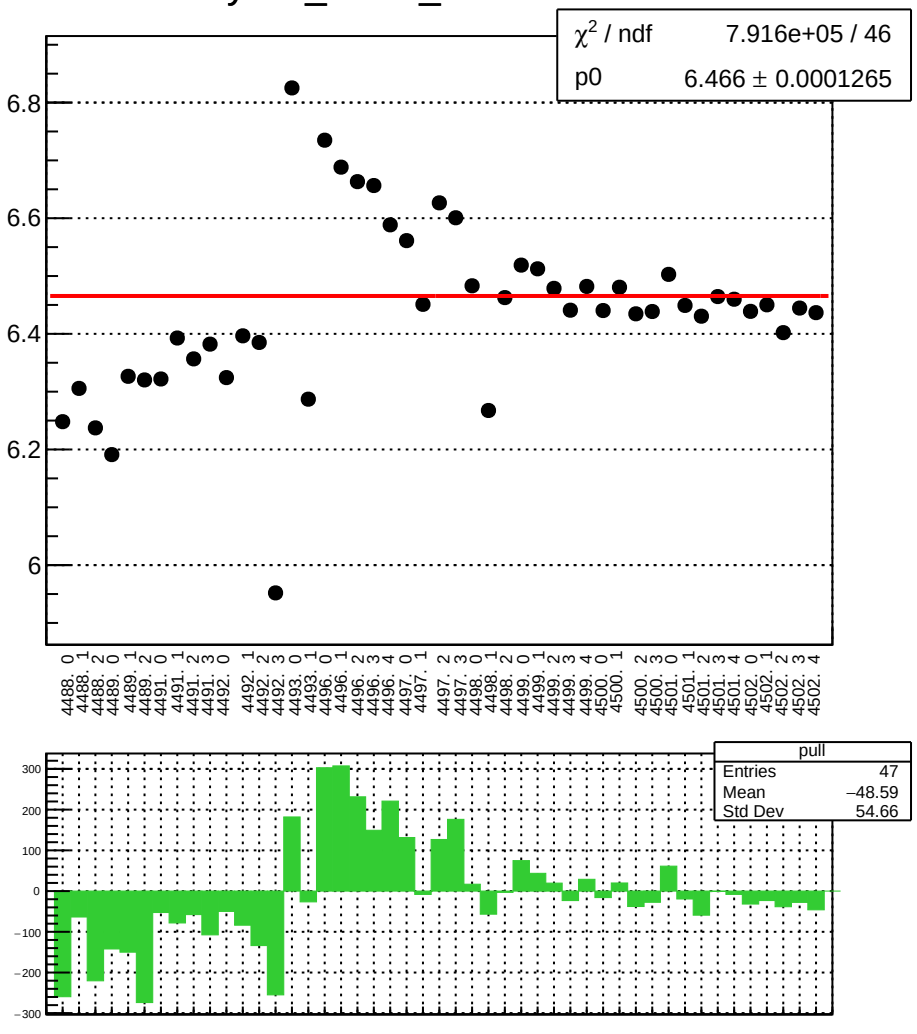

yield_sam4_mean vs run
χ² / ndf 4.988e+05 / 46
p0 22.33 ± 0.001009
pull
Entries 47
Mean −14.48
Std Dev 4.765

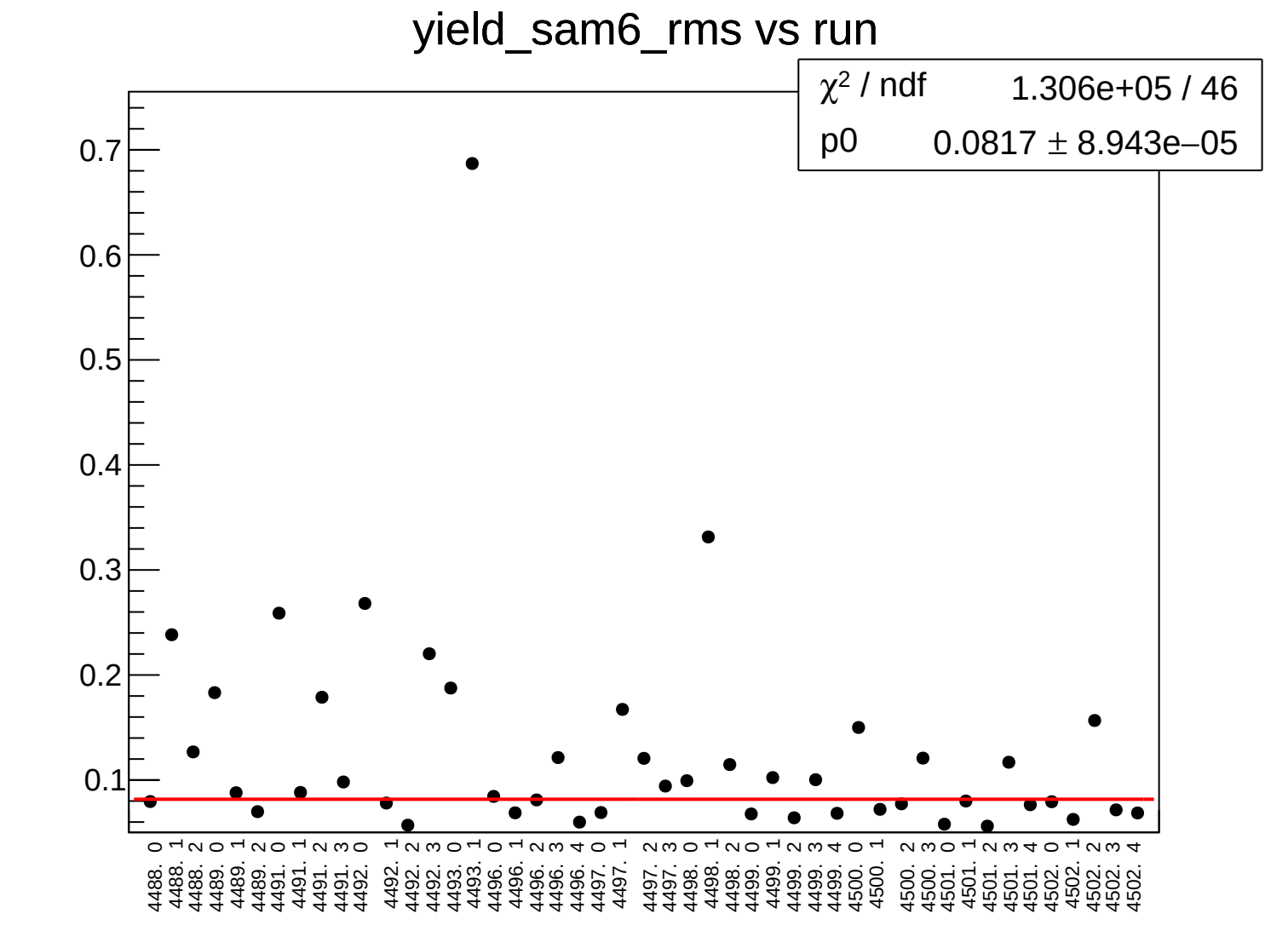

pull1D
Entries 47
Mean −3.21
Std Dev 0

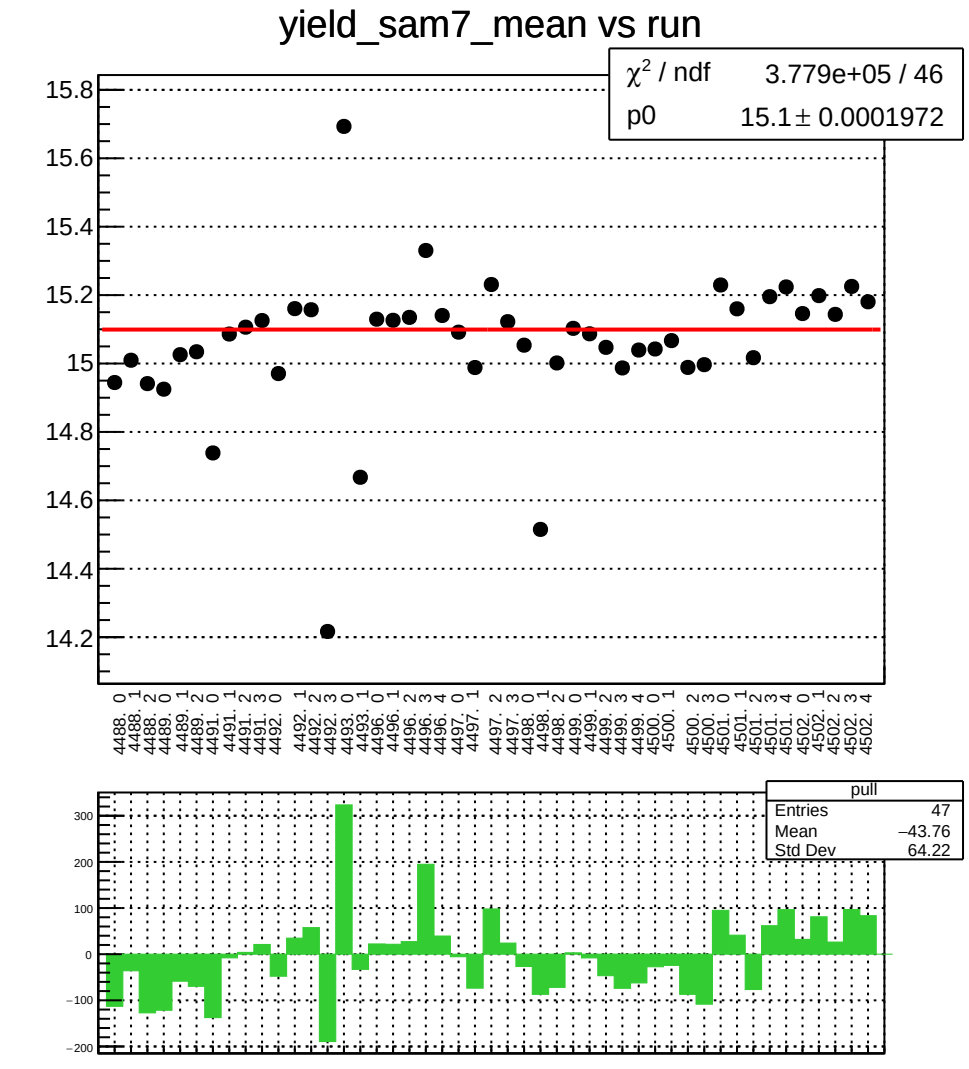

yield_sam4_rms vs run
χ² / ndf 8.755e+04 / 46
p0 0.6682 ± 0.0007133
5
4
3
2
1
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

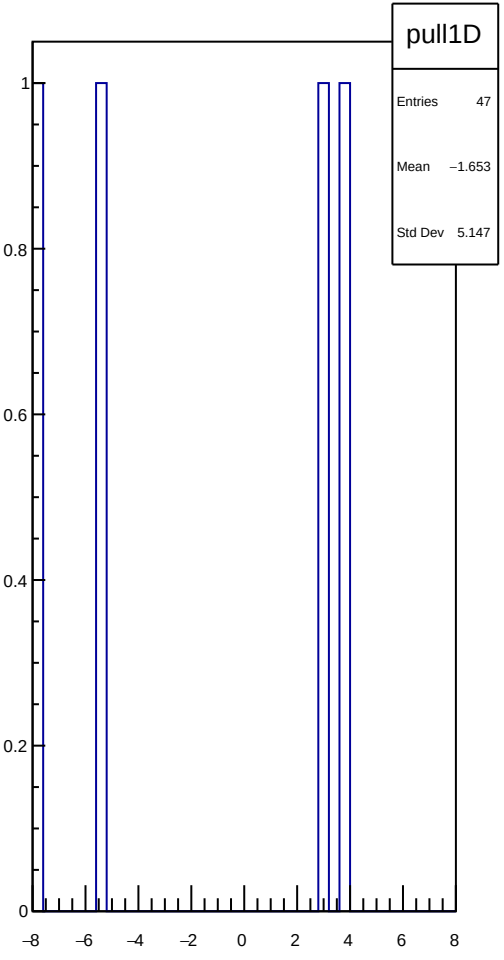

yield_sam5_mean vs run
χ² / ndf 1.538e+06 / 46
p0 4.541± 5.403e−05
4.65
4.6
4.55
4.5
4.45
4.4
4.35
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −47.63
Std Dev 57.24
400
300
200
100
0
−100
−200
−300
pull1D
Entries 47
Mean −3.858
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

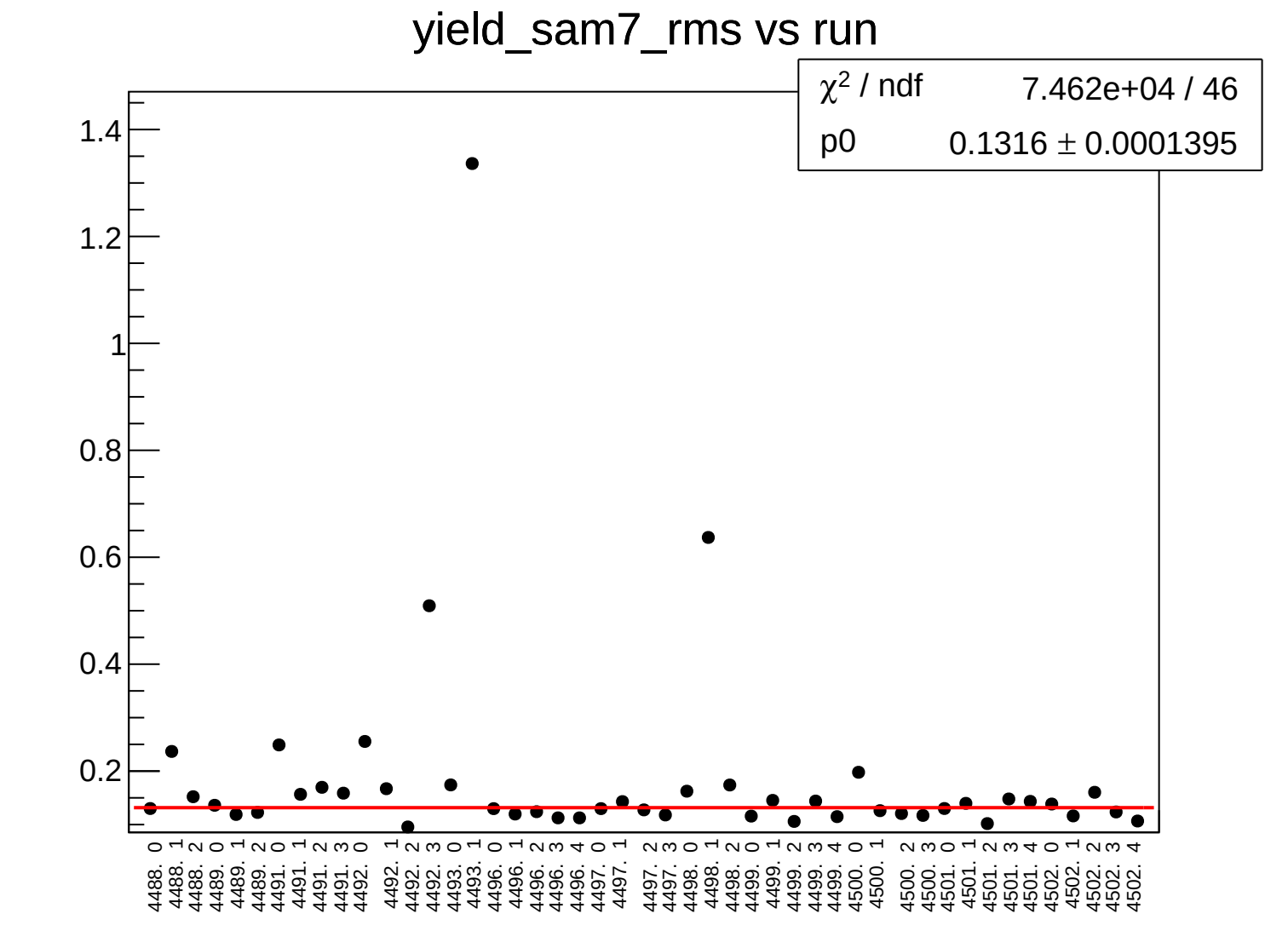

yield_sam5_rms vs run
χ² / ndf 1.679e+05 / 46
p0 0.03411 ± 3.82e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

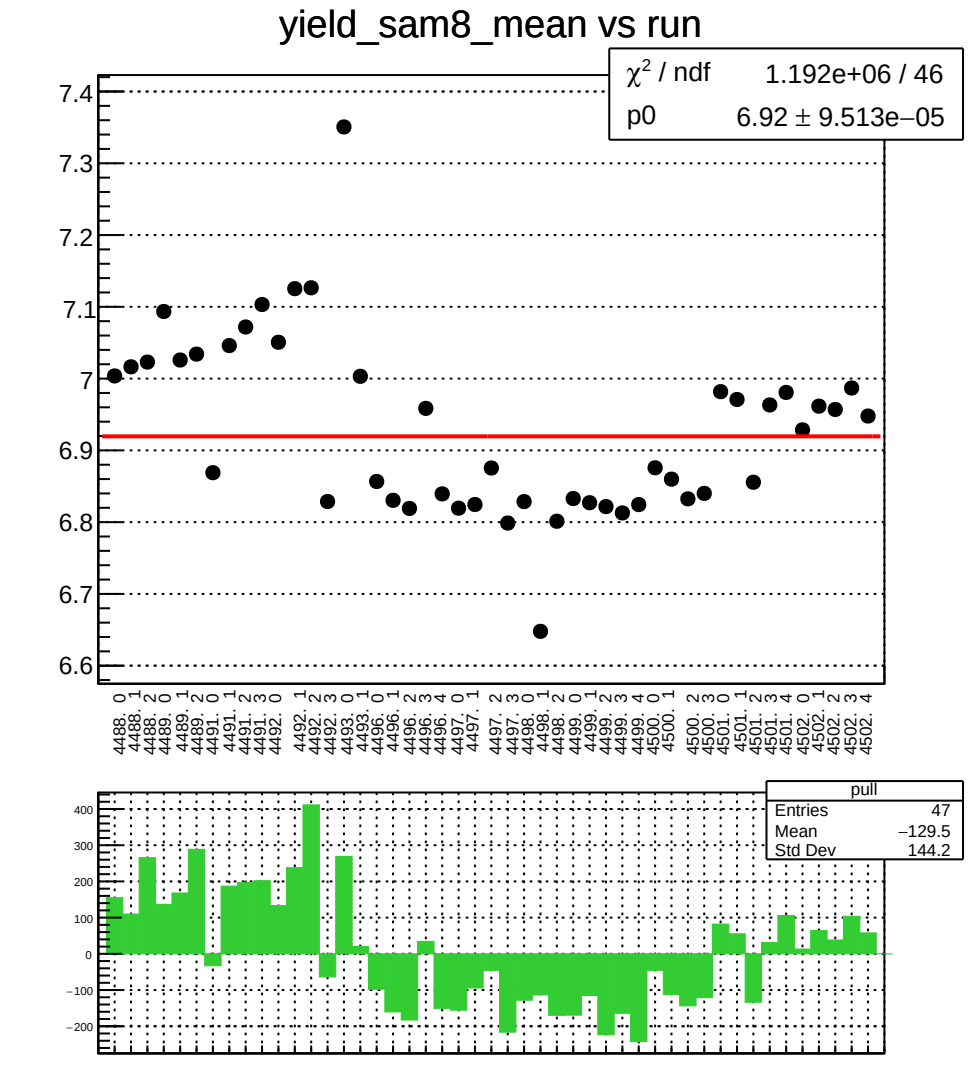

yield_sam6_mean vs run
χ² / ndf 7.916e+05 / 46
p0 6.466 ± 0.0001265
6.8
6.6
6.4
6.2
6
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −48.59
Std Dev 54.66
300
200
100
0
−100
−200
−300
pull1D
Entries 47
Mean −1.975
Std Dev 1.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

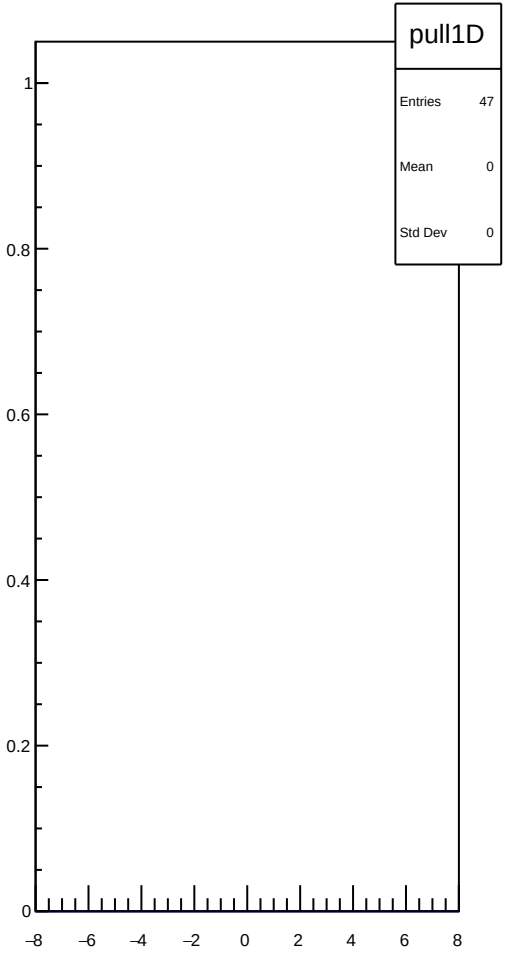

yield_sam6_rms vs run
χ² / ndf 1.306e+05 / 46
p0 0.0817 ± 8.943e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

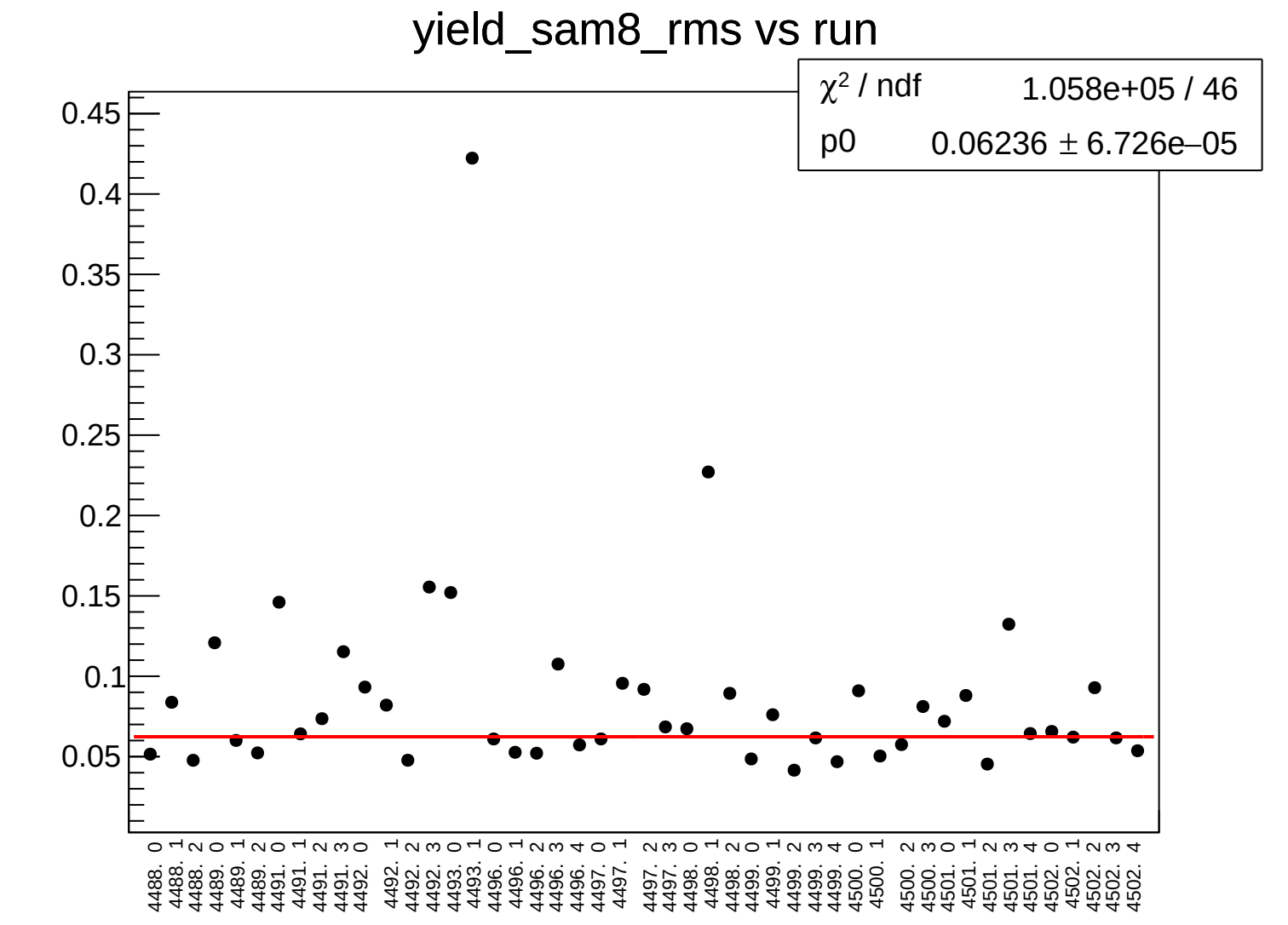

yield_sam7_mean vs run
χ² / ndf 3.779e+05 / 46
p0 15.1 ± 0.0001972
15.8
15.6
15.4
15.2
15
14.8
14.6
14.4
14.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −43.76
Std Dev 64.22
300
200
100
0
−100
−200

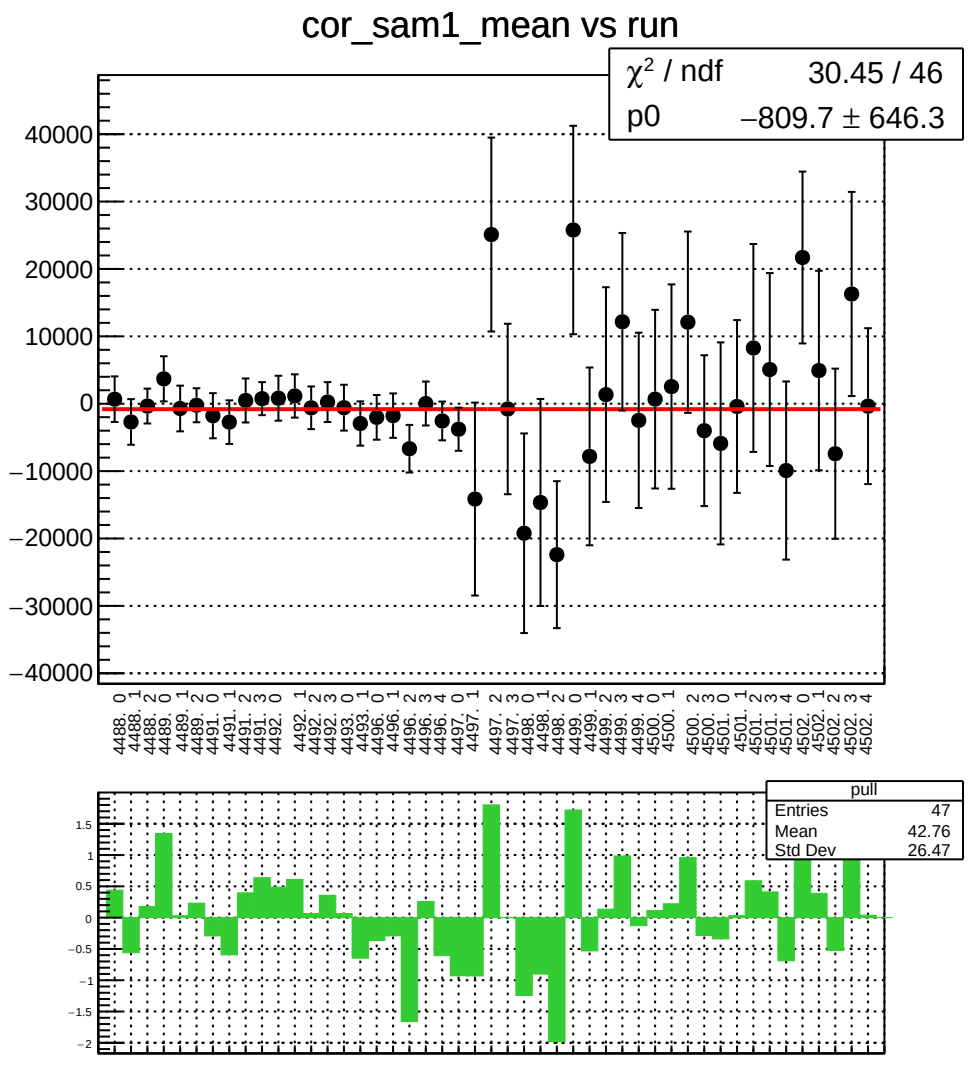

pull1D
Entries 47
Mean −1.653
Std Dev 5.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

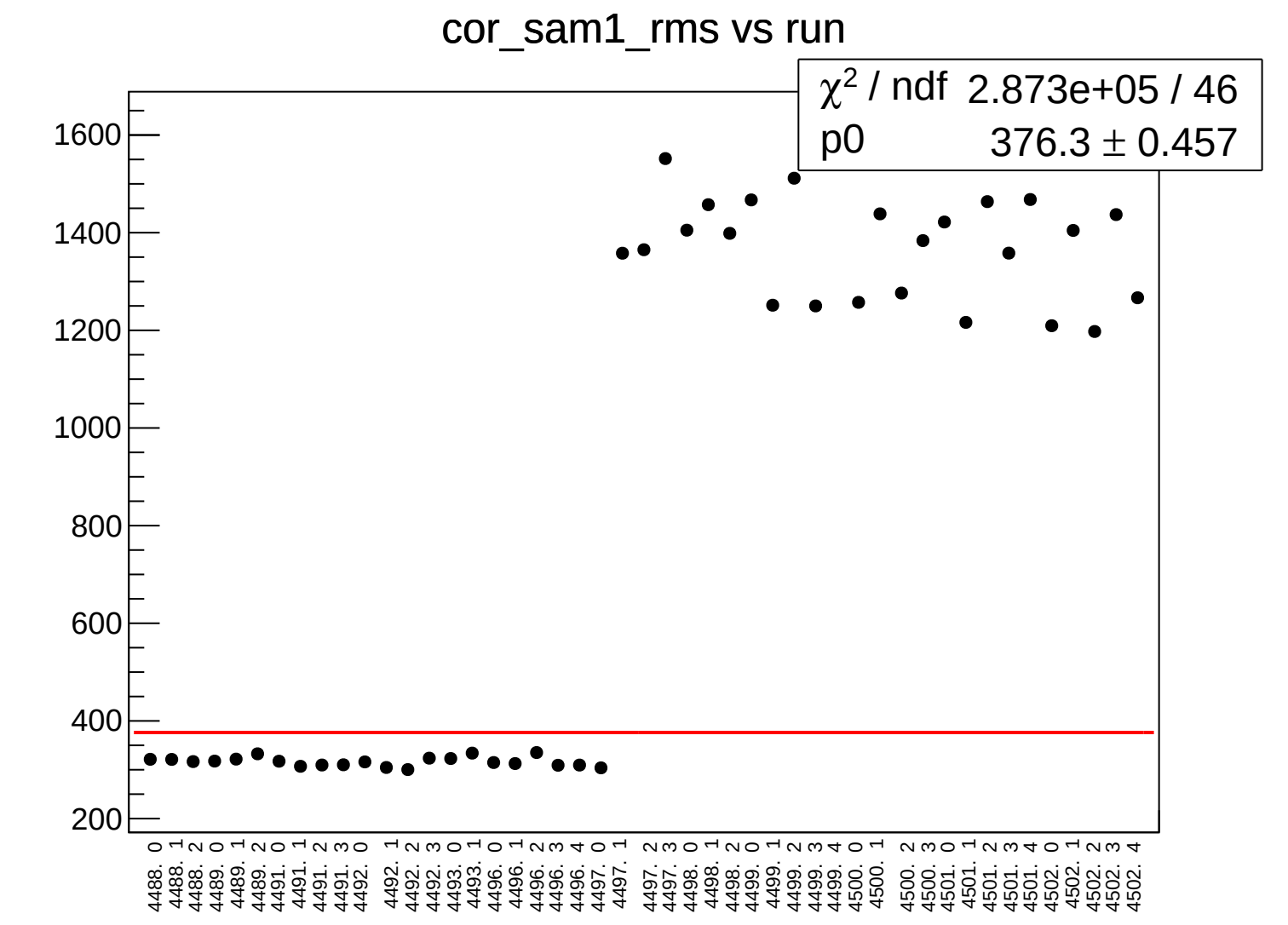

yield_sam7_rms vs run
χ² / ndf 7.462e+04 / 46
p0 0.1316 ± 0.0001395
1.4
1.2
1
0.8
0.6
0.4
0.2
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

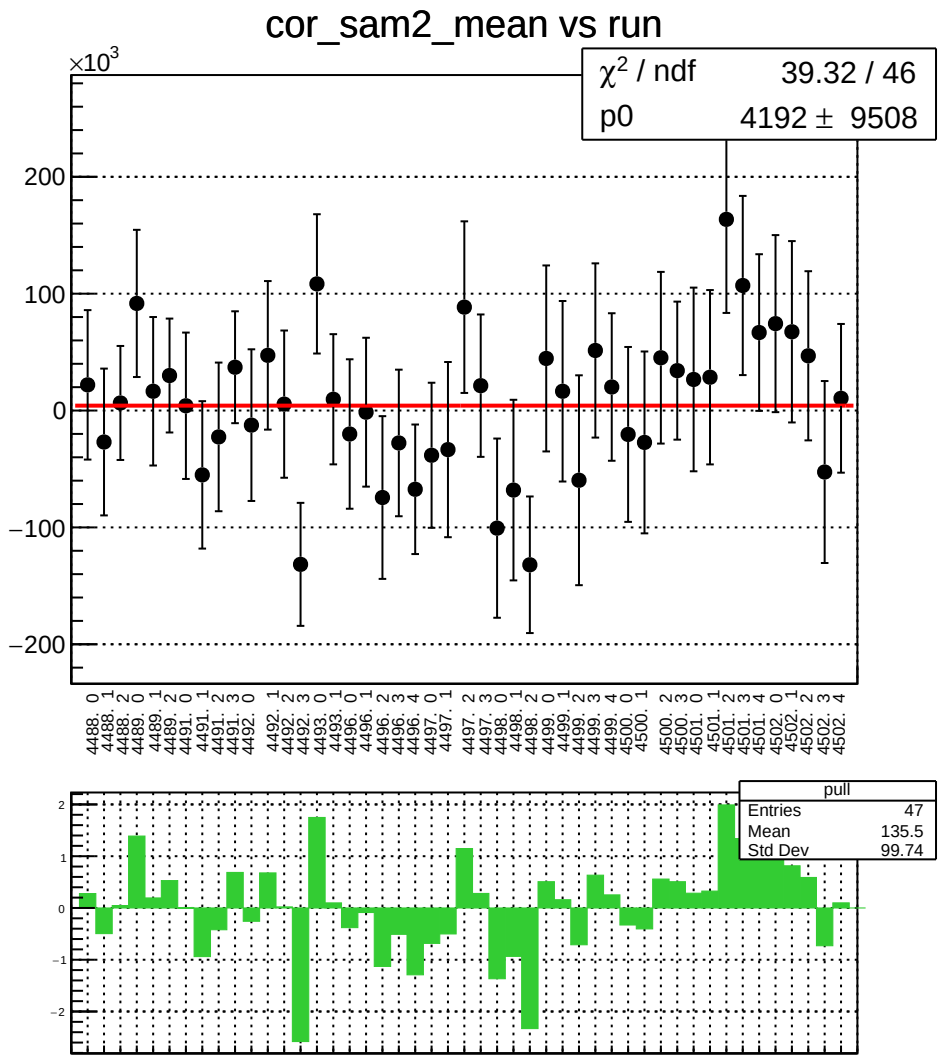

yield_sam8_mean vs run
χ² / ndf 1.192e+06 / 46
p0 6.92 ± 9.513e−05
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −129.5
Std Dev 144.2
400
300
200
100
0
−100
−200

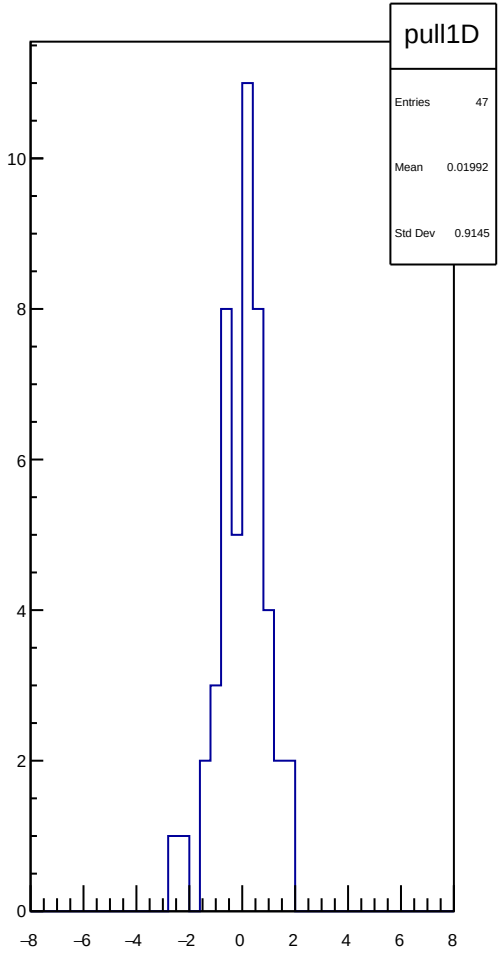

pull1D
Entries 47
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

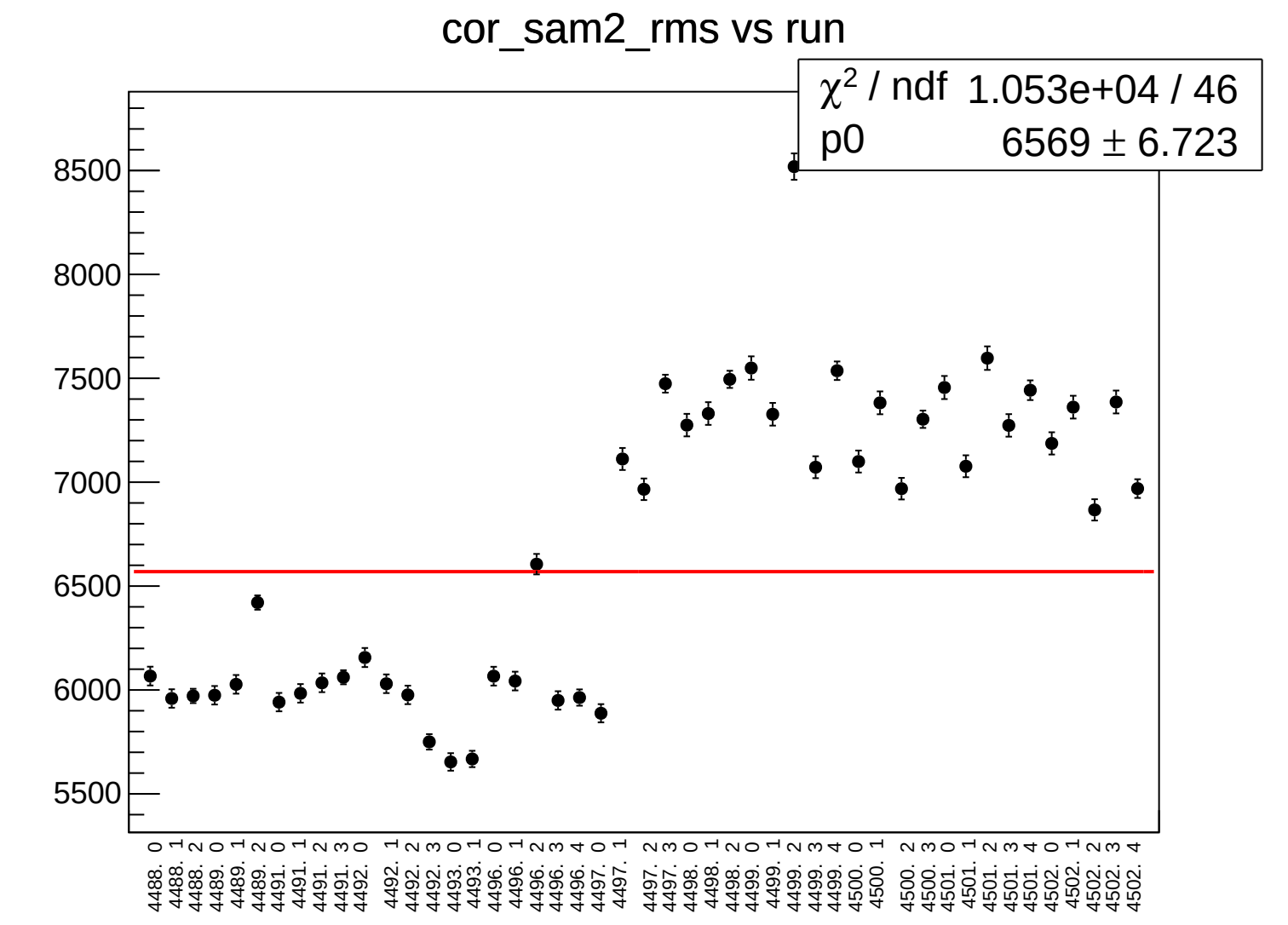

yield_sam8_rms vs run
χ² / ndf 1.058e+05 / 46
p0 0.06236 ± 6.726e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

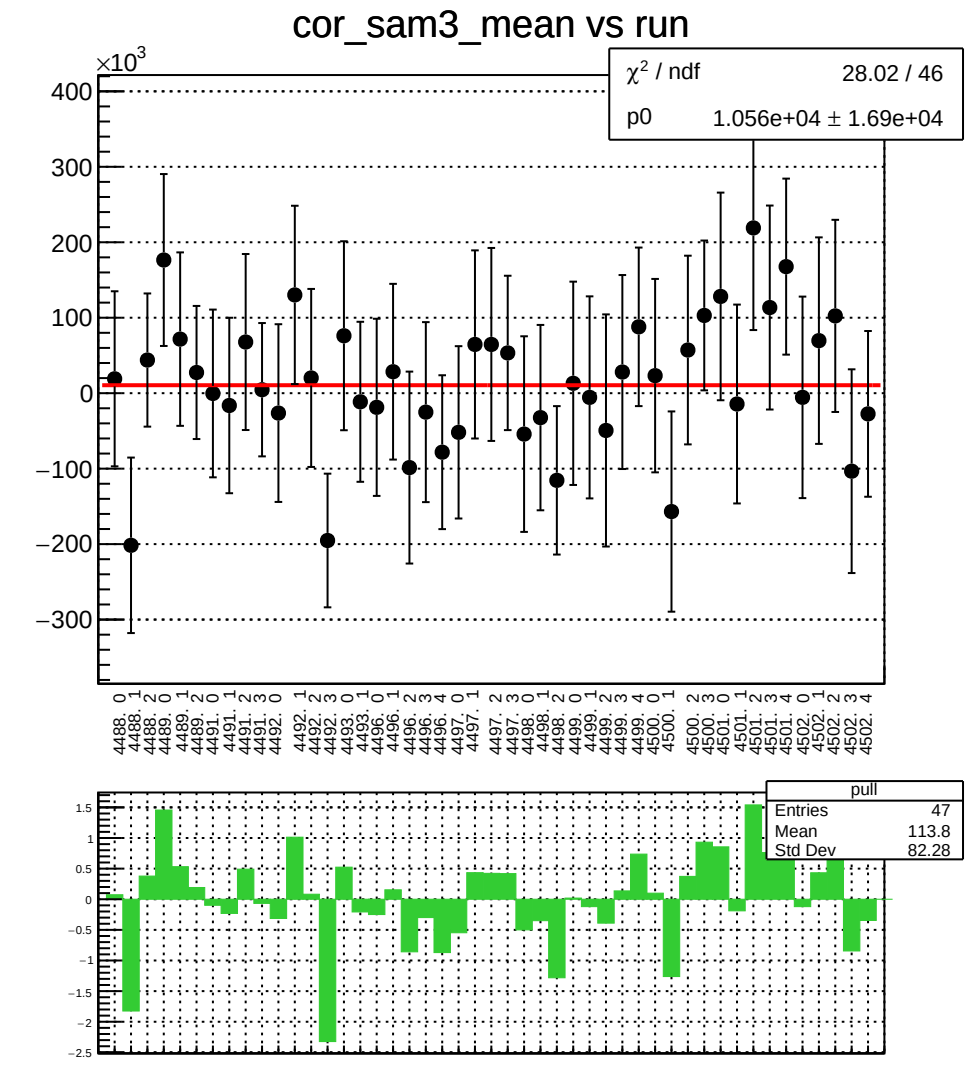

cor_sam1_mean vs run
χ² / ndf 30.45 / 46
p0 −809.7 ± 646.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 42.76
Std Dev 26.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean 0.0402
Std Dev 0.8039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

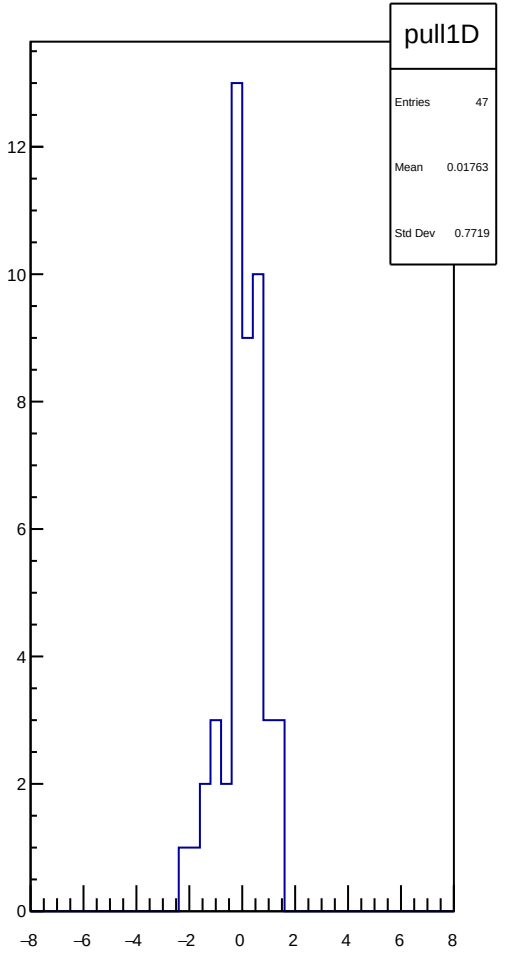

cor_sam1_rms vs run
χ² / ndf 2.873e+05 / 46
p0 376.3 ± 0.457
1600
1400
1200
1000
800
600
400
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

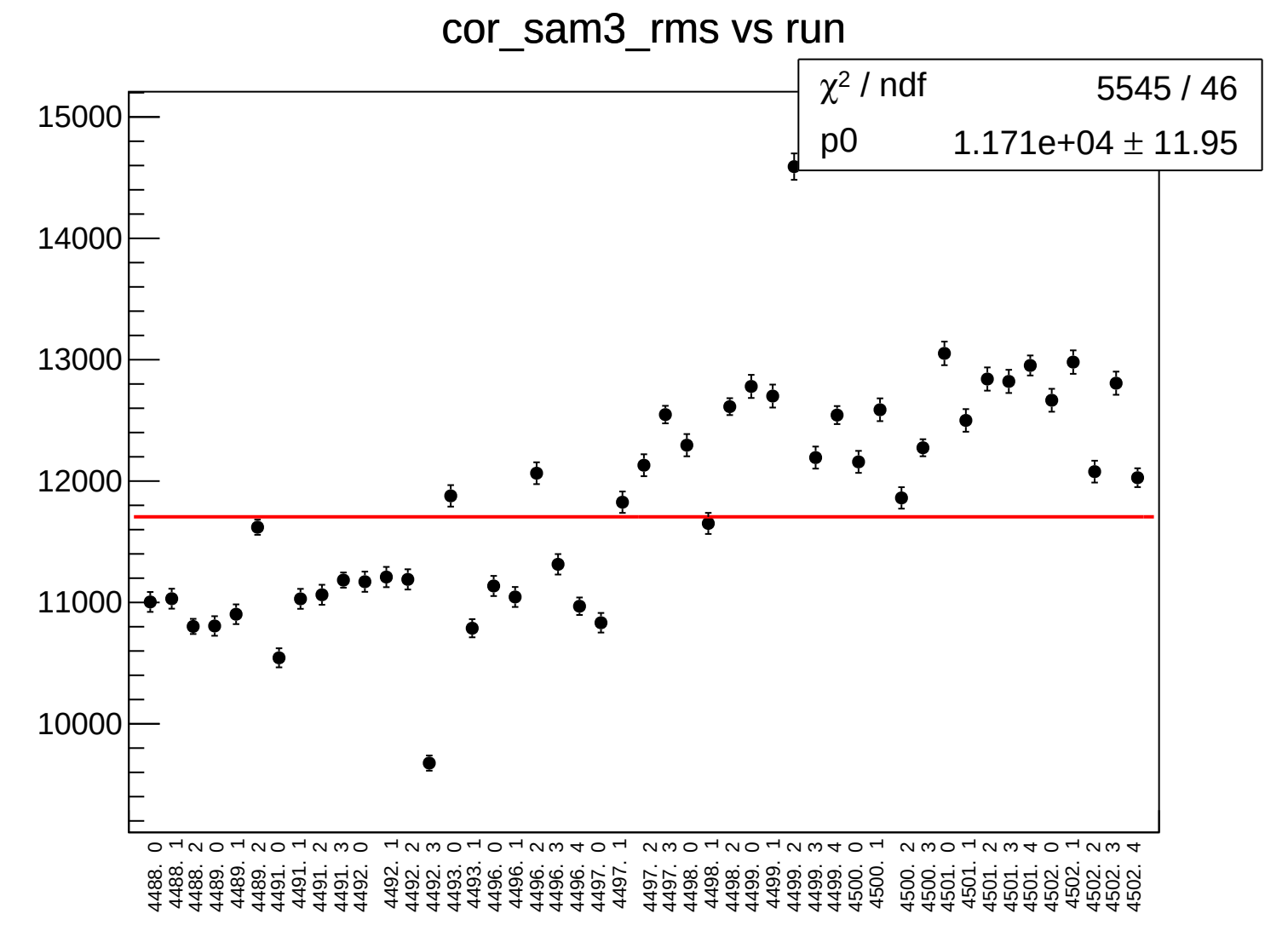

cor_sam2_mean vs run
×10^3
χ^2 / ndf 39.32 / 46
p0 4192 ± 9508
200
100
0
−100
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 135.5
Std Dev 99.74
2
1
0
−1
−2

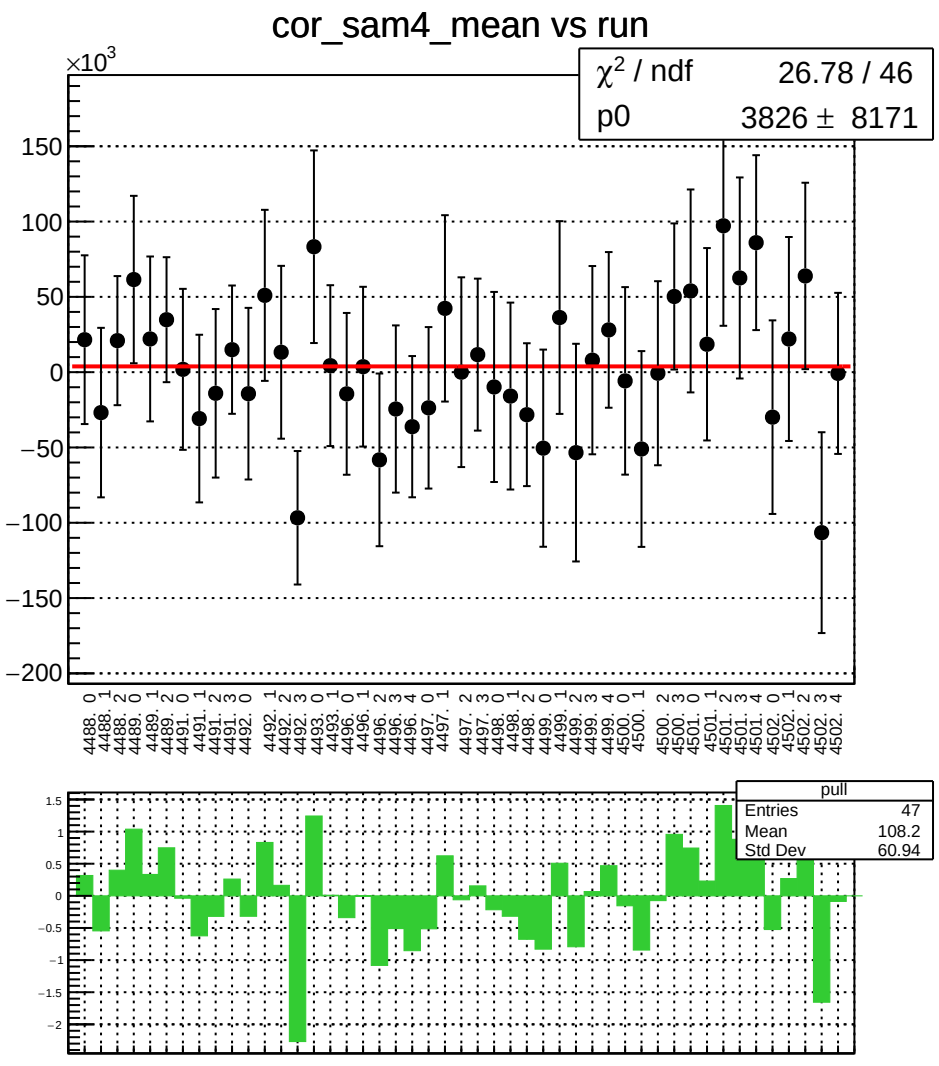

pull1D
Entries 47
Mean 0.01992
Std Dev 0.9145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

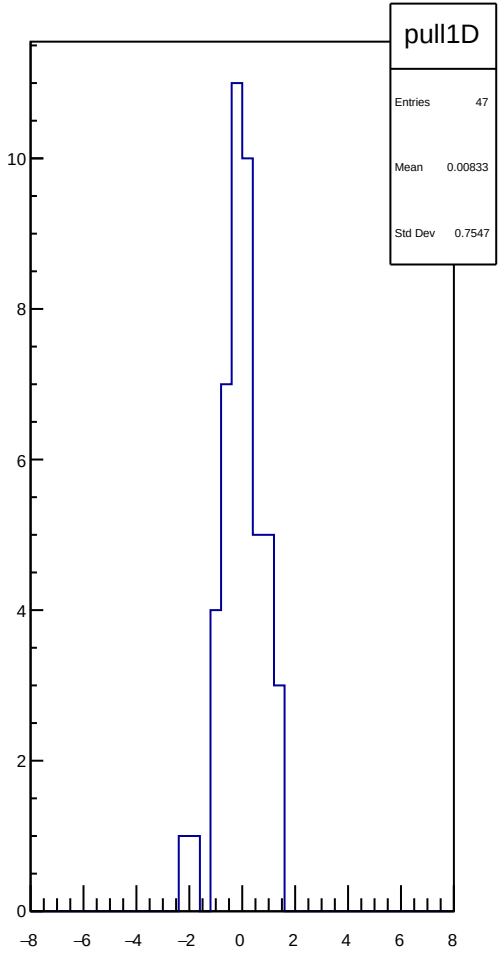

cor_sam2_rms vs run
χ² / ndf 1.053e+04 / 46
p0 6569 ± 6.723
8500
8000
7500
7000
6500
6000
5500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

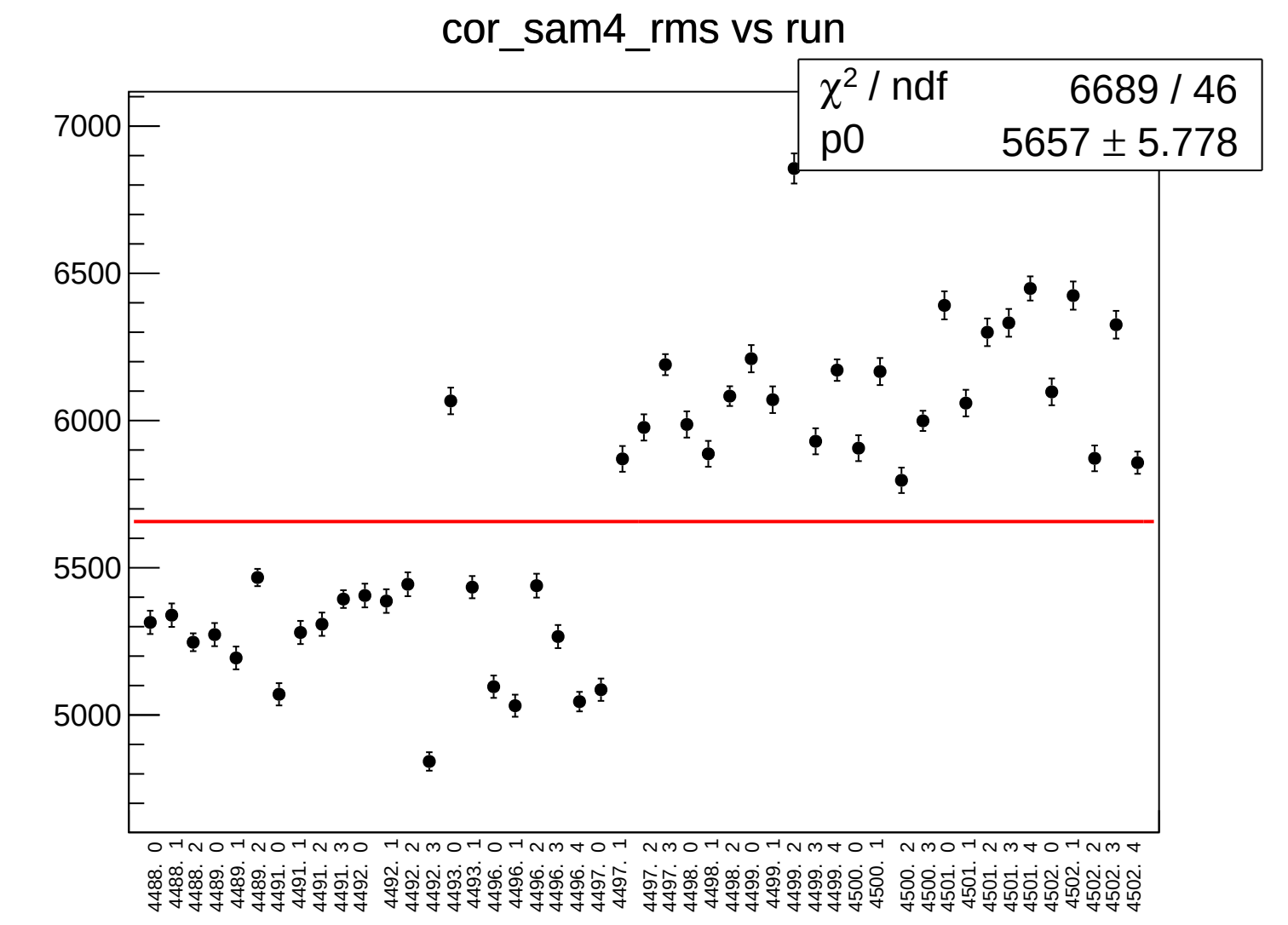

cor_sam3_mean vs run
×10^3
χ² / ndf 28.02 / 46
p0 1.056e+04 ± 1.69e+04
400
300
200
100
0
−100
−200
−300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 113.8
Std Dev 82.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

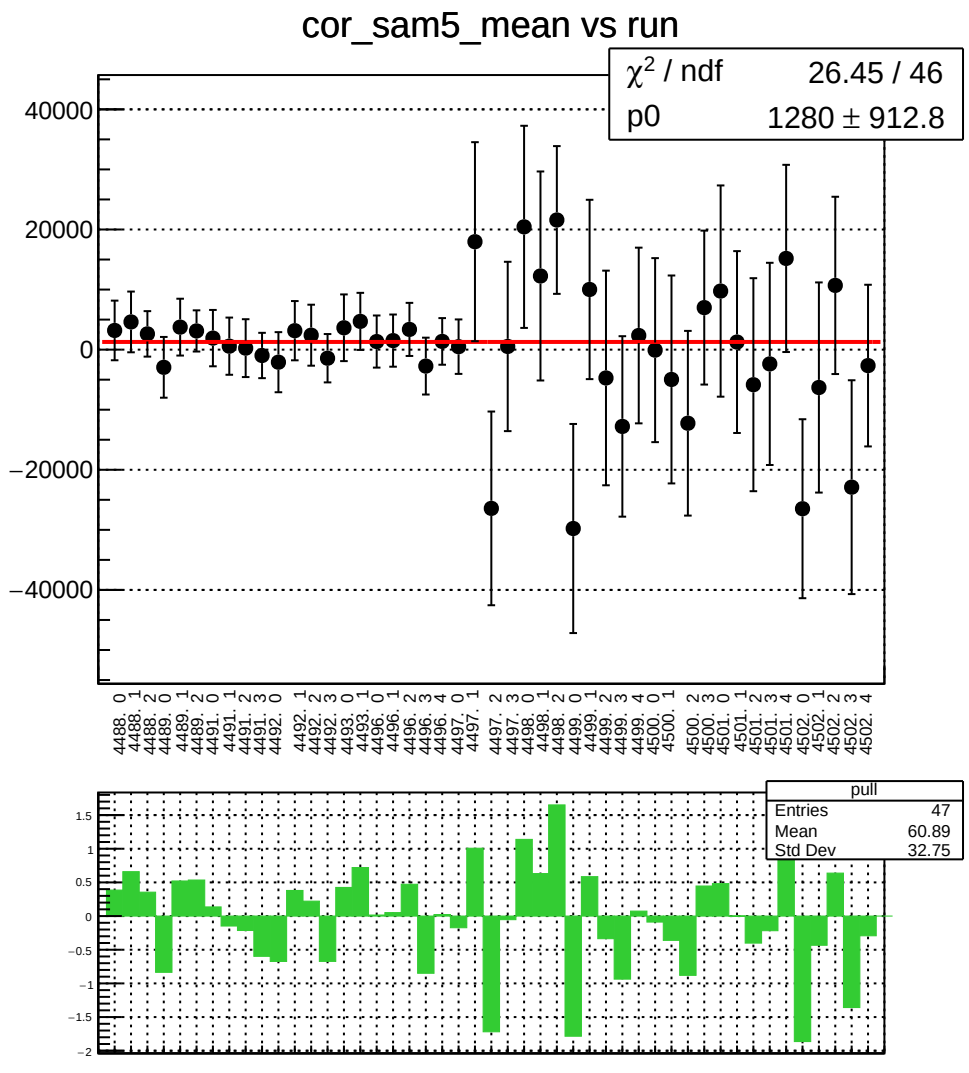

pull1D
Entries 47
Mean 0.01763
Std Dev 0.7719
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

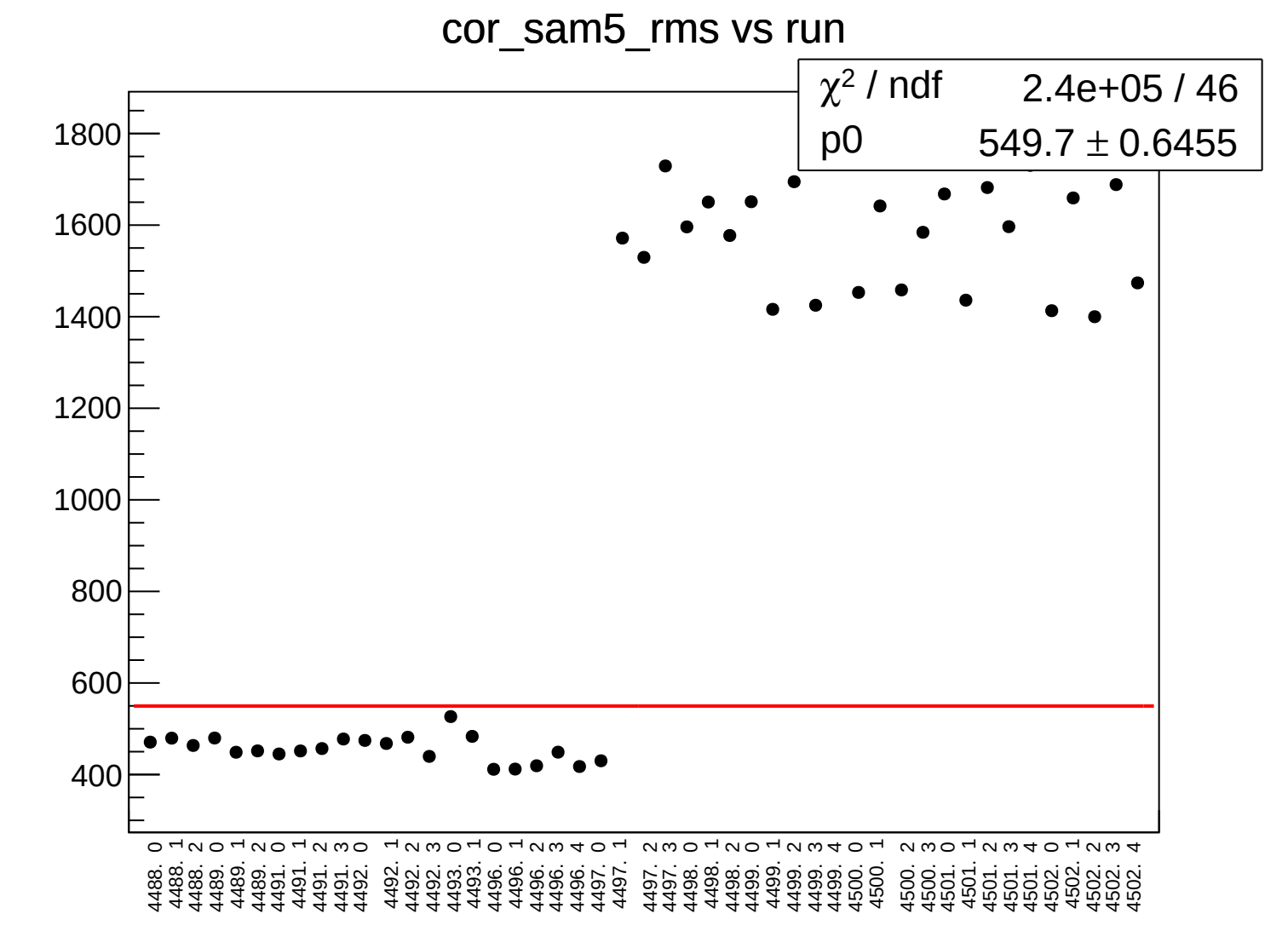

cor_sam3_rms vs run
χ² / ndf 5545 / 46
p0 1.171e+04 ± 11.95
15000
14000
13000
12000
11000
10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

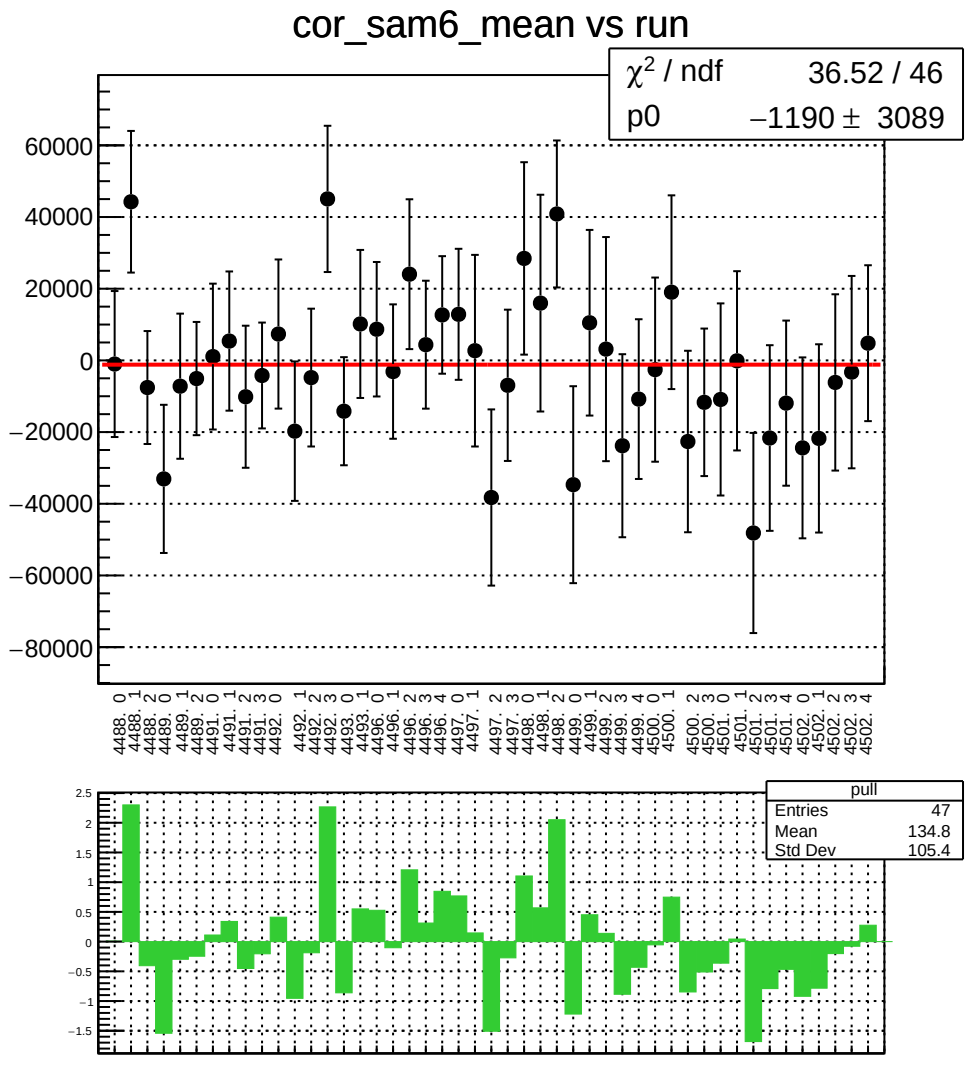

cor_sam4_mean vs run
×10^3
χ² / ndf 26.78 / 46
p0 3826 ± 8171
150
100
50
0
−50
−100
−150
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 108.2
Std Dev 60.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2

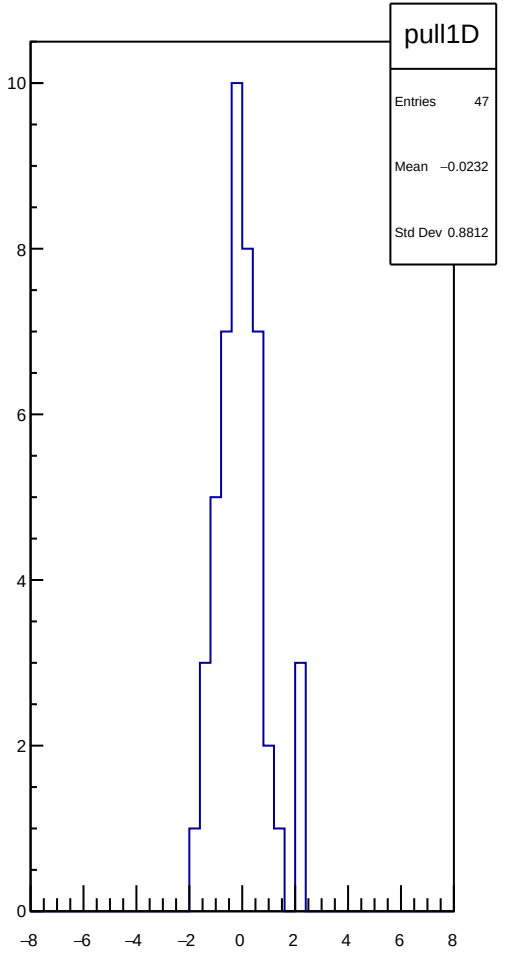

pull1D
Entries 47
Mean 0.00833
Std Dev 0.7547
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

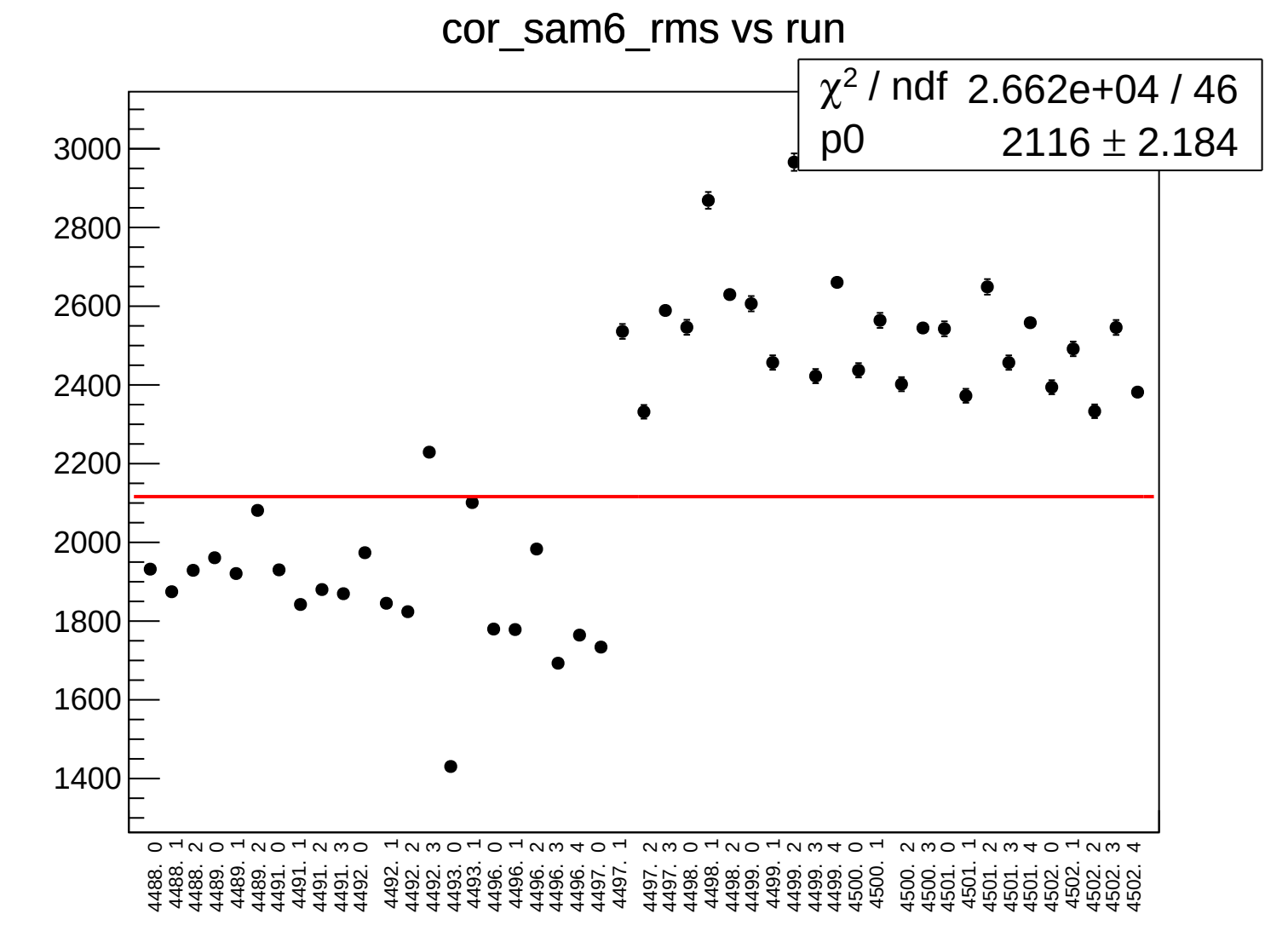

cor_sam4_rms vs run
χ^2 / ndf 6689 / 46
p0 5657 ± 5.778
7000
6500
6000
5500
5000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

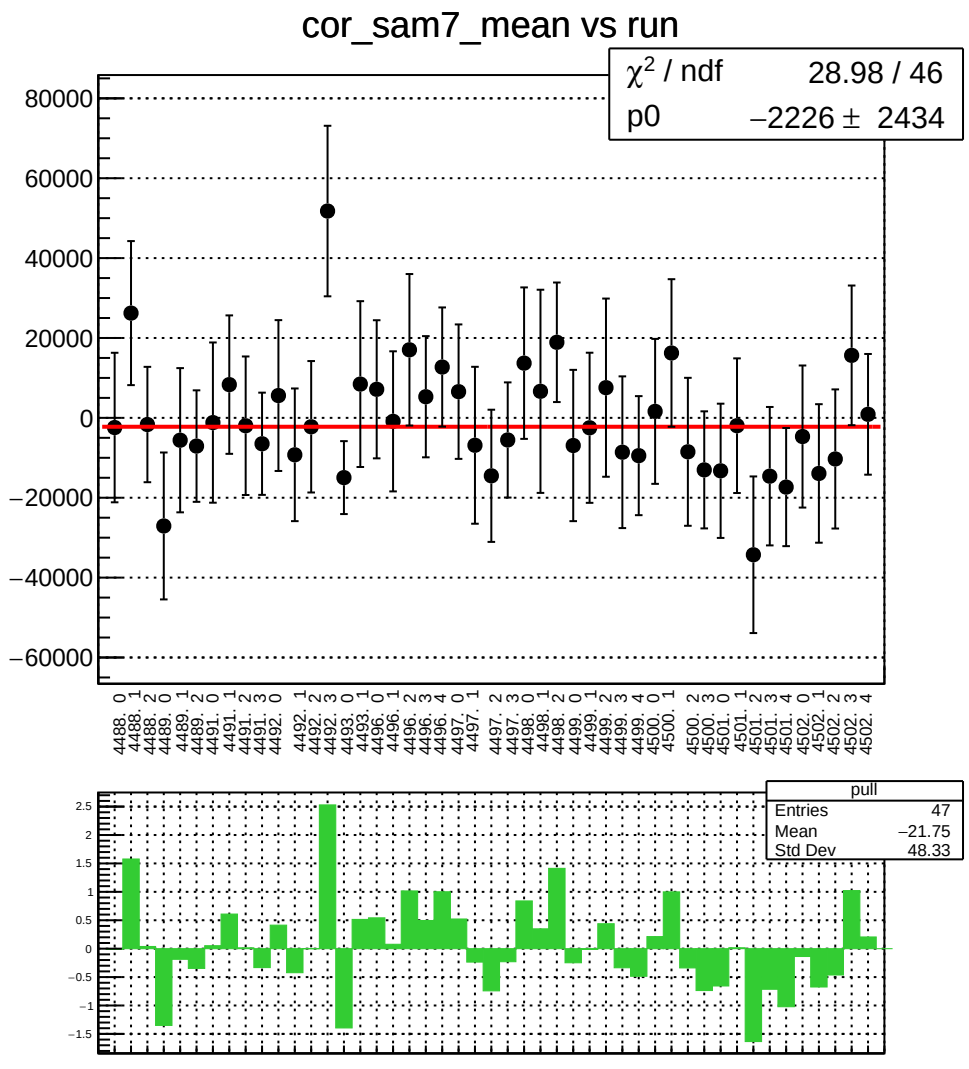

cor_sam5_mean vs run
χ² / ndf 26.45 / 46
p0 1280 ± 912.8
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 60.89
Std Dev 32.75
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.05198
Std Dev 0.7483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

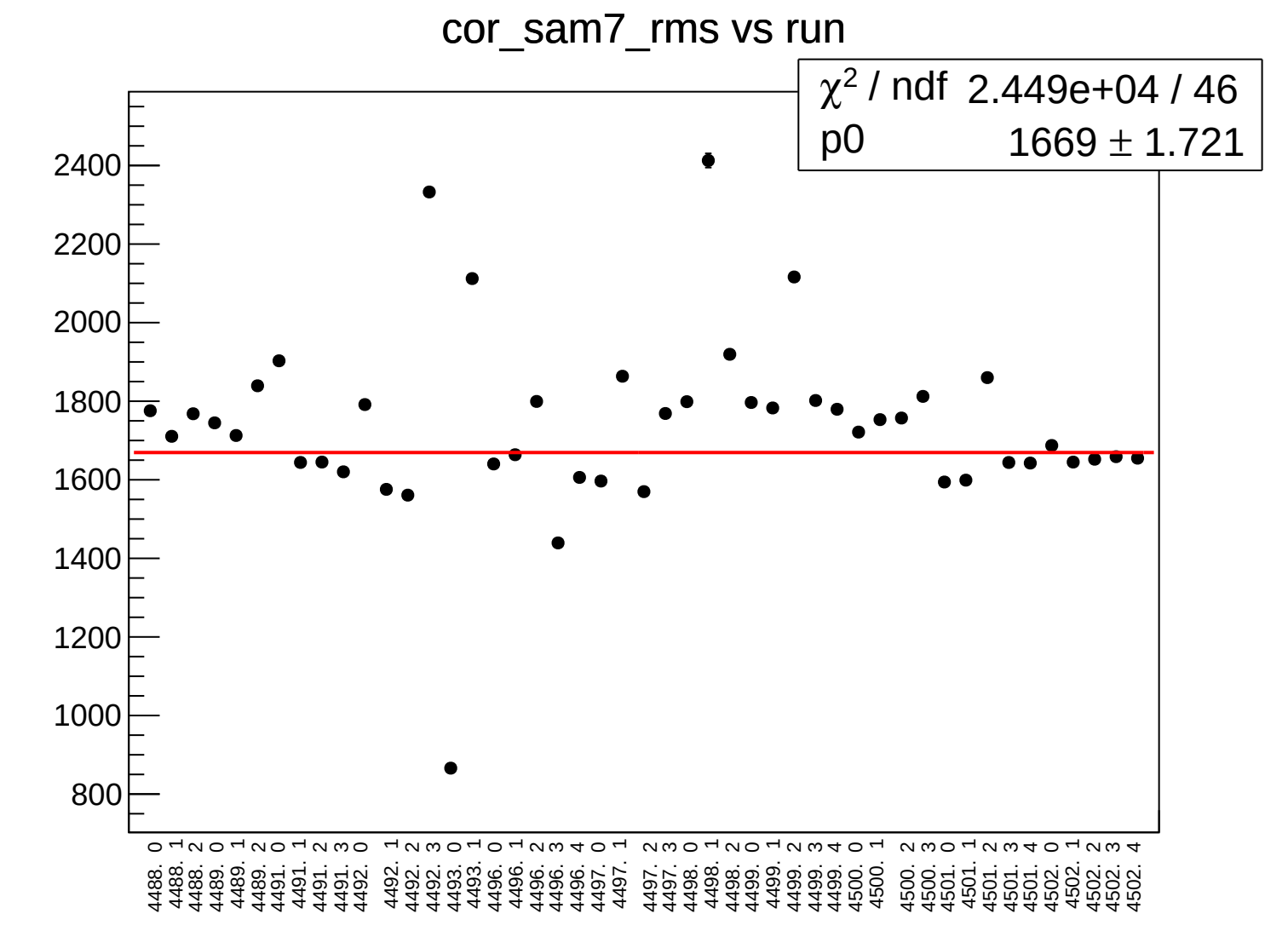

cor_sam5_rms vs run
χ² / ndf 2.4e+05 / 46
p0 549.7 ± 0.6455
1800
1600
1400
1200
1000
800
600
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

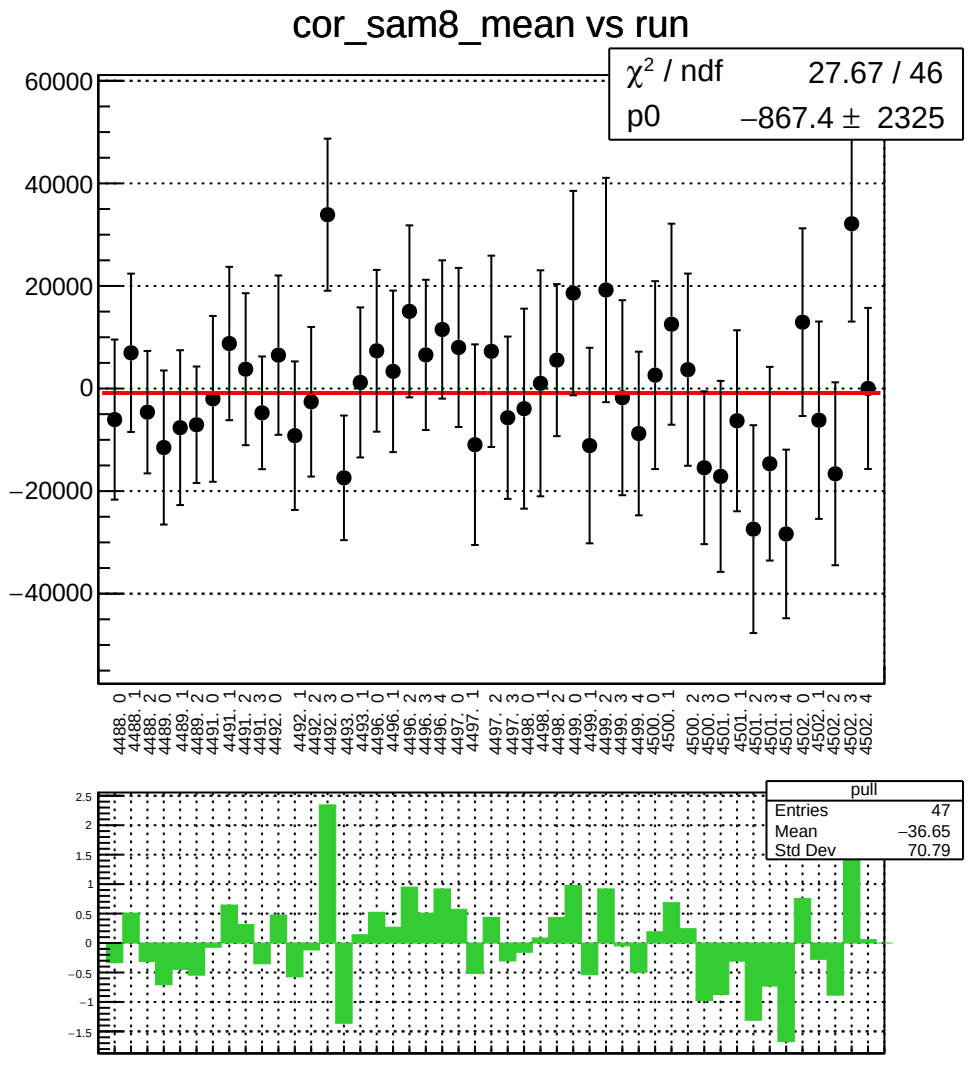

cor_sam6_mean vs run
χ² / ndf 36.52 / 46
p0 −1190 ± 3089
60000
40000
20000
0
−20000
−40000
−60000
−80000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 134.8
Std Dev 105.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

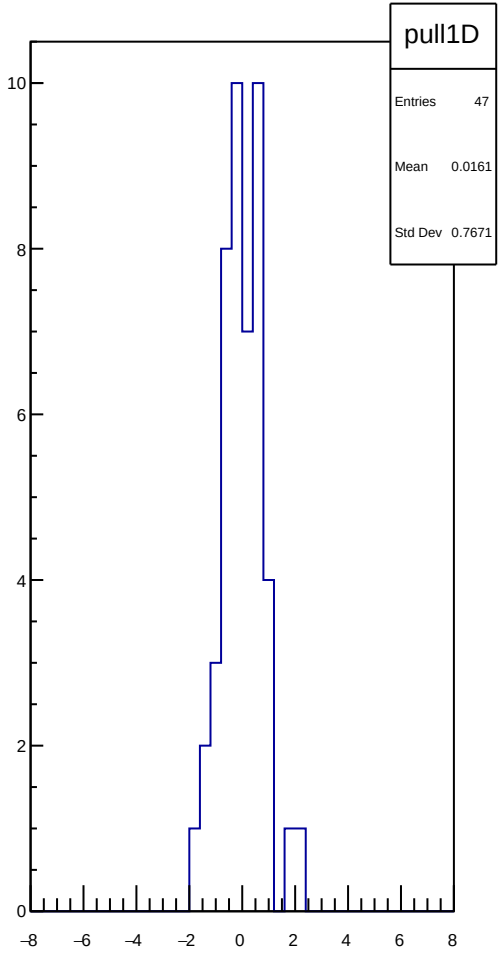

pull1D
Entries 47
Mean −0.0232
Std Dev 0.8812
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

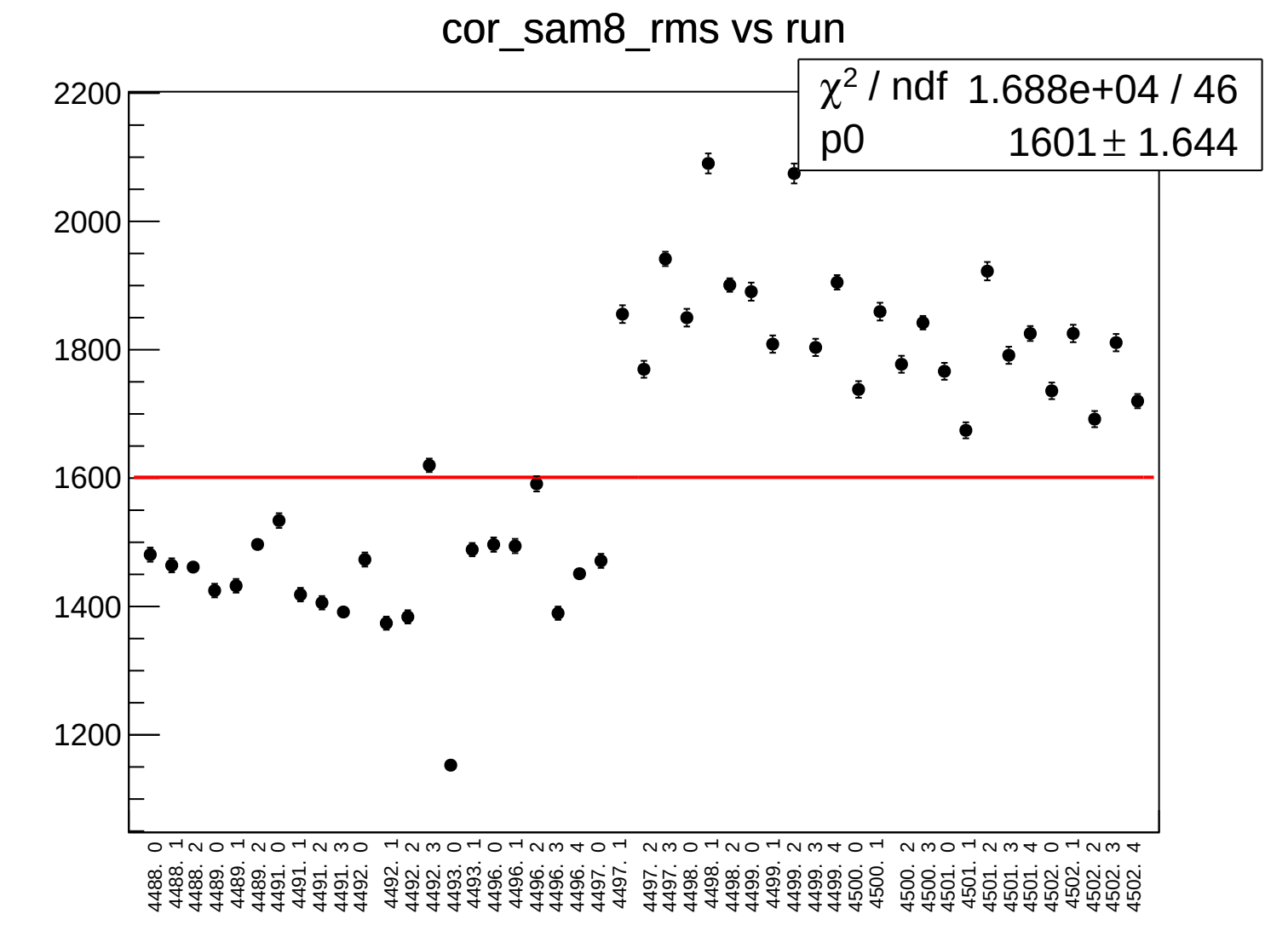

cor_sam6_rms vs run
χ² / ndf 2.662e+04 / 46
p0 2116 ± 2.184
3000
2800
2600
2400
2200
2000
1800
1600
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

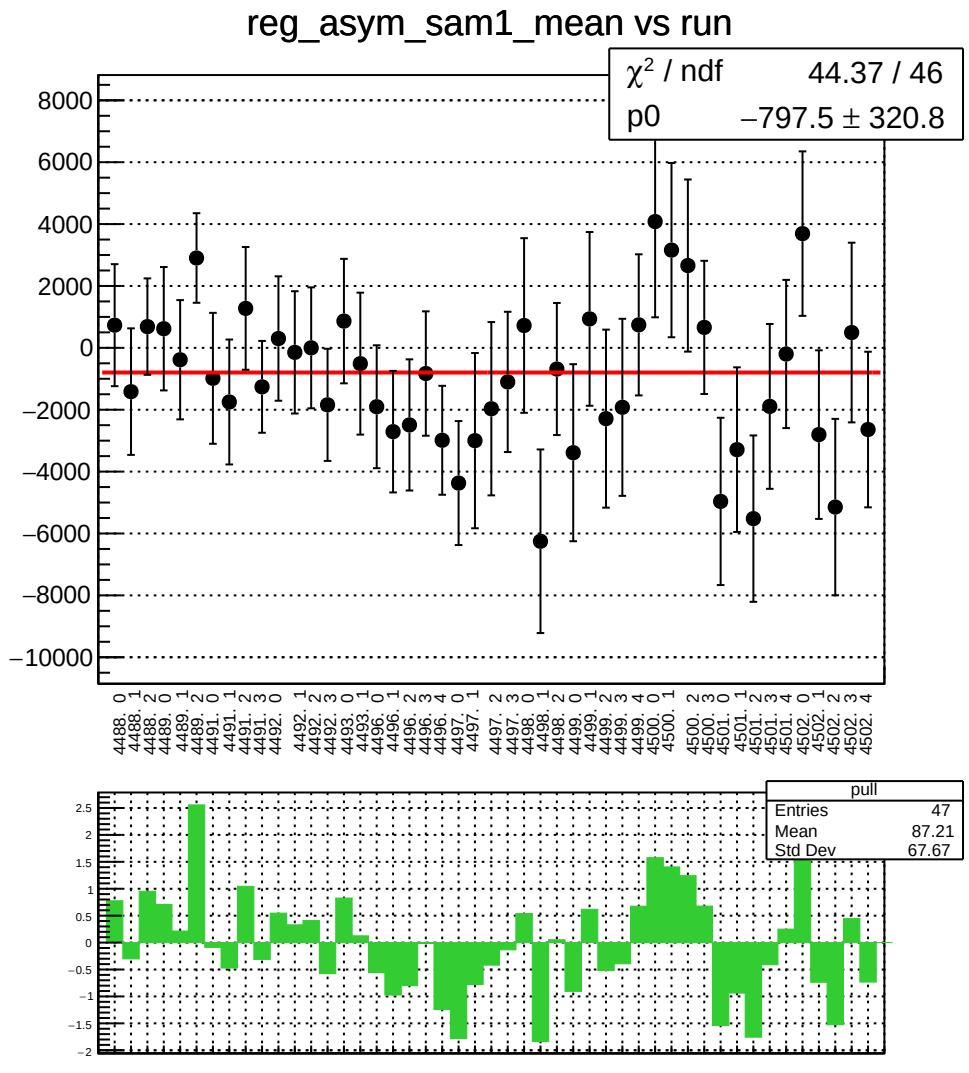

cor_sam7_mean vs run
χ² / ndf 28.98 / 46
p0 −2226 ± 2434
80000
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −21.75
Std Dev 48.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.04649
Std Dev 0.7839
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

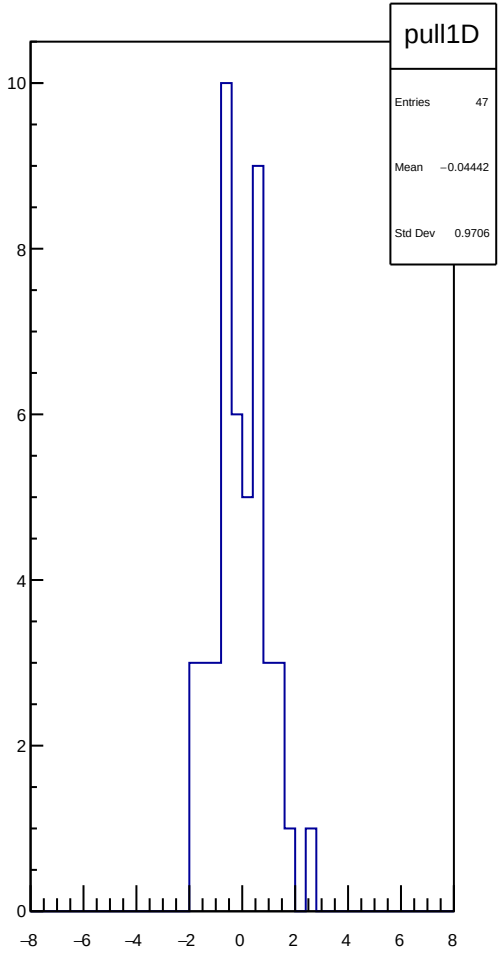

cor_sam7_rms vs run
χ² / ndf 2.449e+04 / 46
p0 1669 ± 1.721
2400
2200
2000
1800
1600
1400
1200
1000
800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

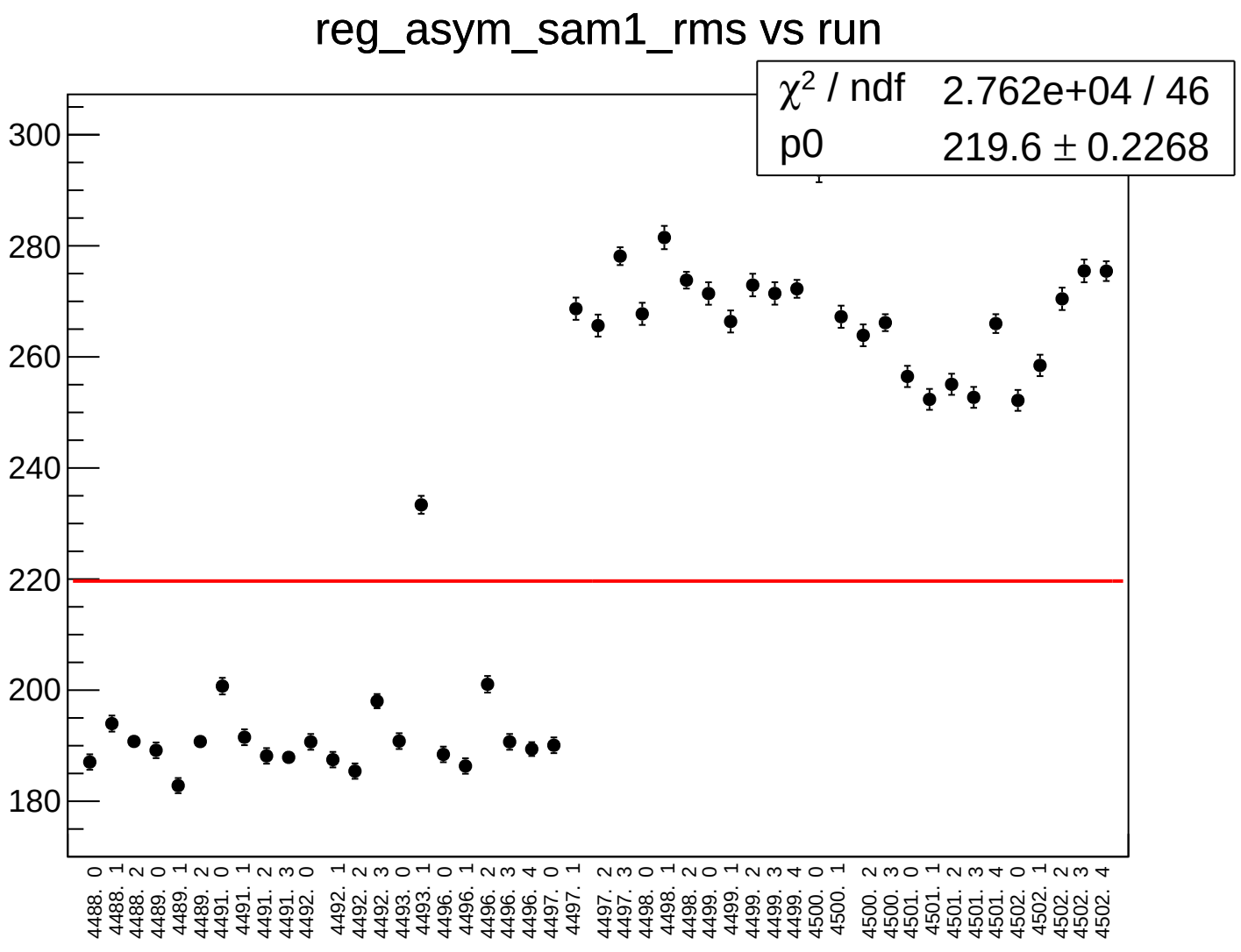

cor_sam8_mean vs run
χ² / ndf 27.67 / 46
p0 −867.4 ± 2325
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −36.65
Std Dev 70.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

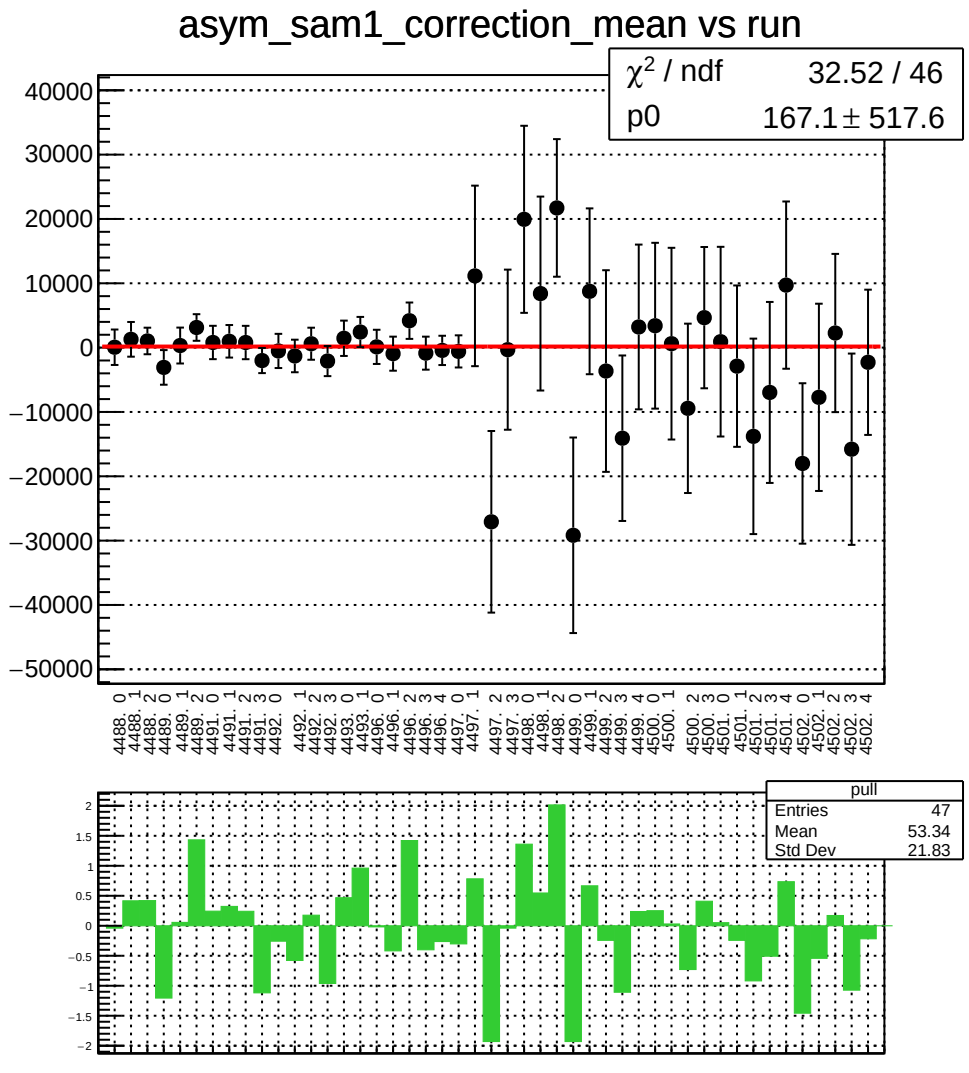

pull1D
Entries 47
Mean 0.0161
Std Dev 0.7671
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

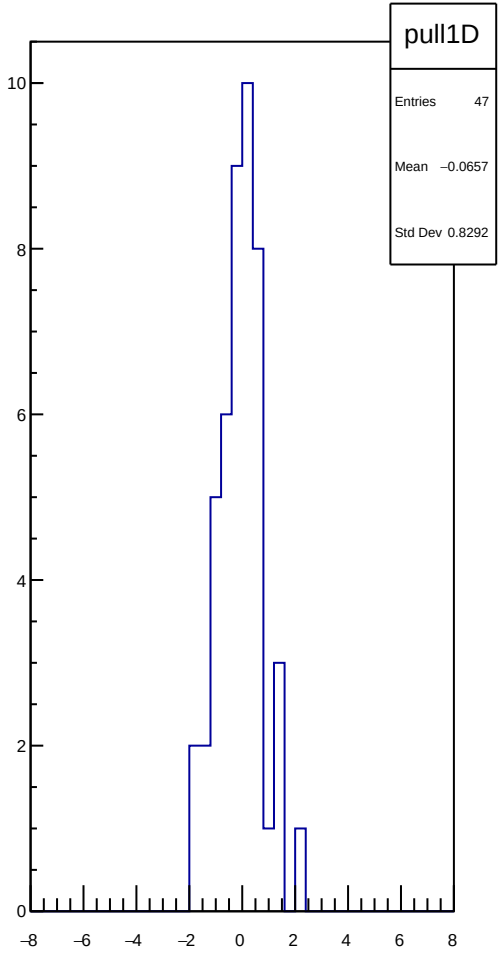

cor_sam8_rms vs run
χ² / ndf 1.688e+04 / 46
p0 1601 ± 1.644
2200
2000
1800
1600
1400
1200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

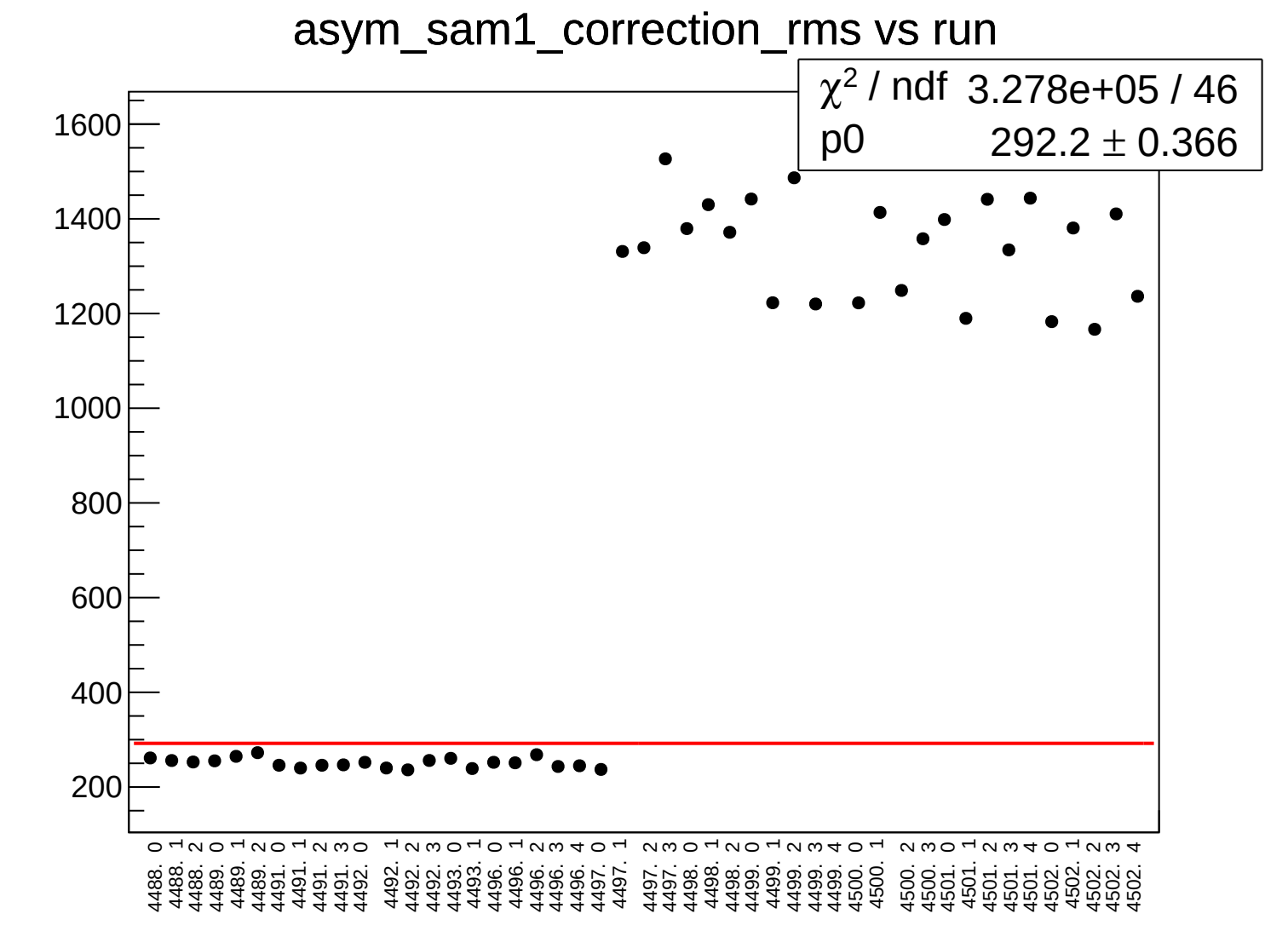

reg_asym_sam1_mean vs run
χ² / ndf 44.37 / 46
p0 −797.5 ± 320.8
pull
Entries 47
Mean 87.21
Std Dev 67.67

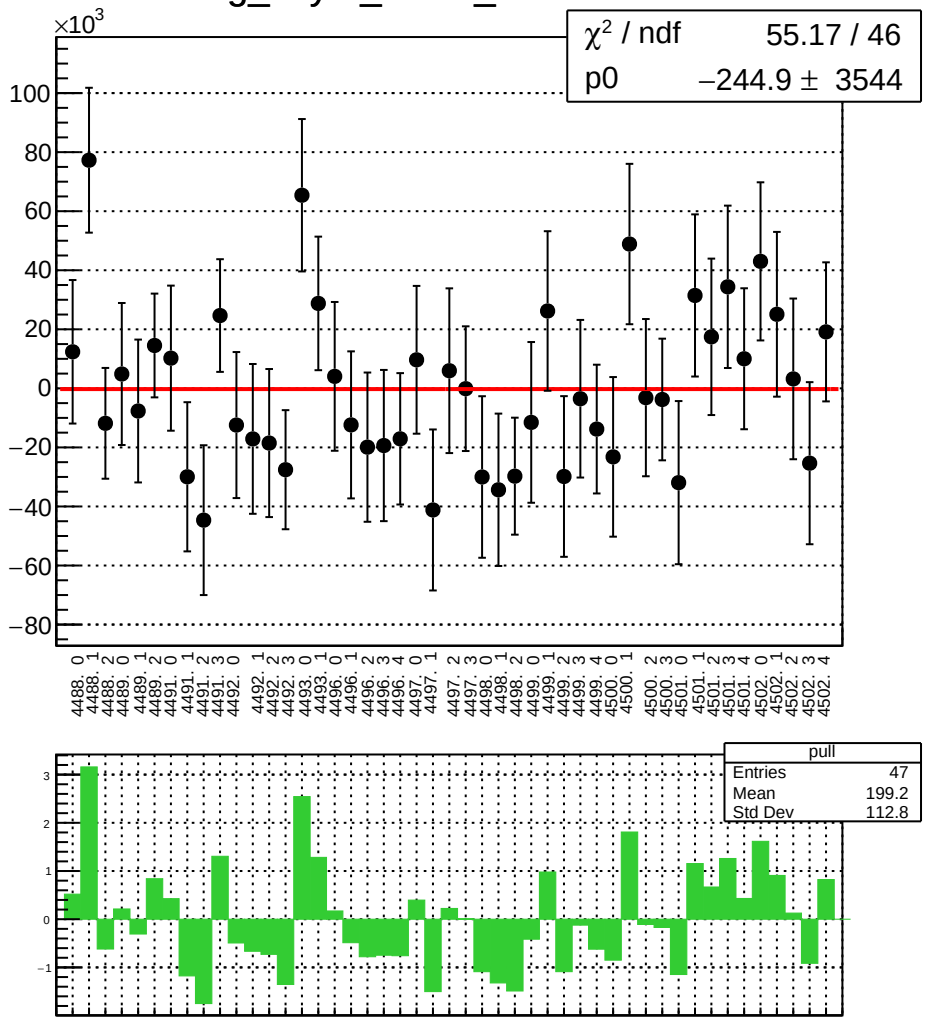

pull1D
Entries 47
Mean −0.04442
Std Dev 0.9706

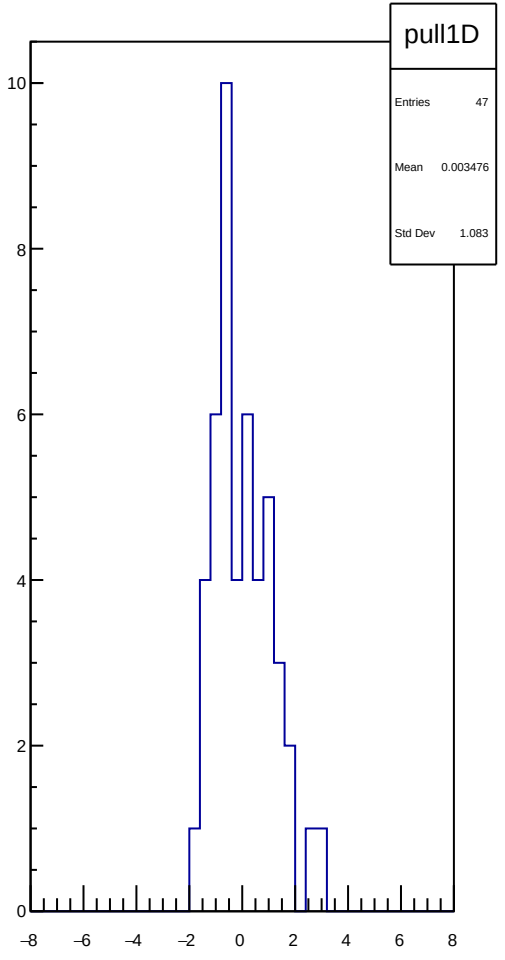

reg_asym_sam1_rms vs run
χ² / ndf 2.762e+04 / 46
p0 219.6 ± 0.2268
300
280
260
240
220
200
180
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

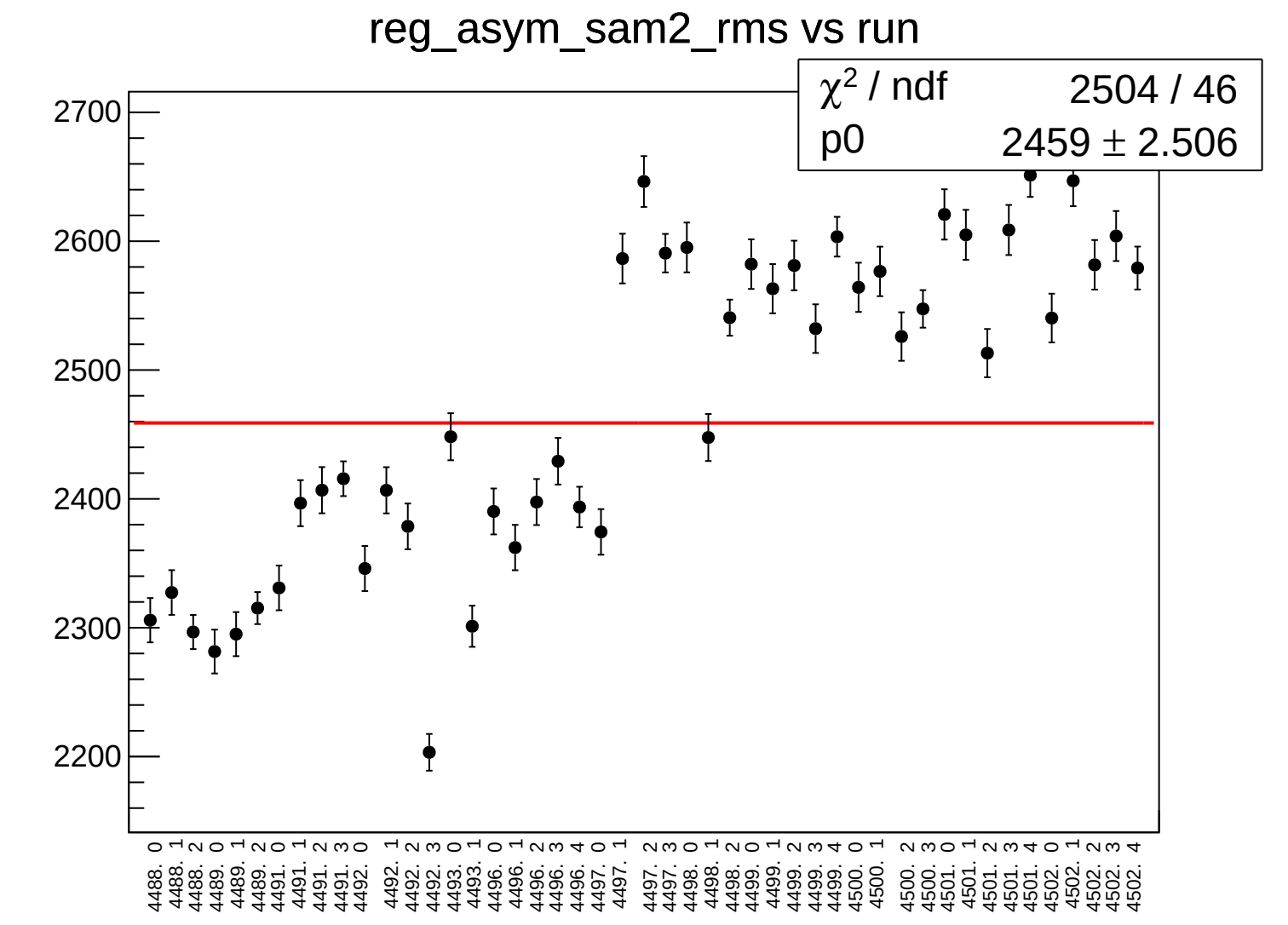

asym_sam1_correction_mean vs run
χ² / ndf 32.52 / 46
p0 167.1 ± 517.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 53.34
Std Dev 21.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

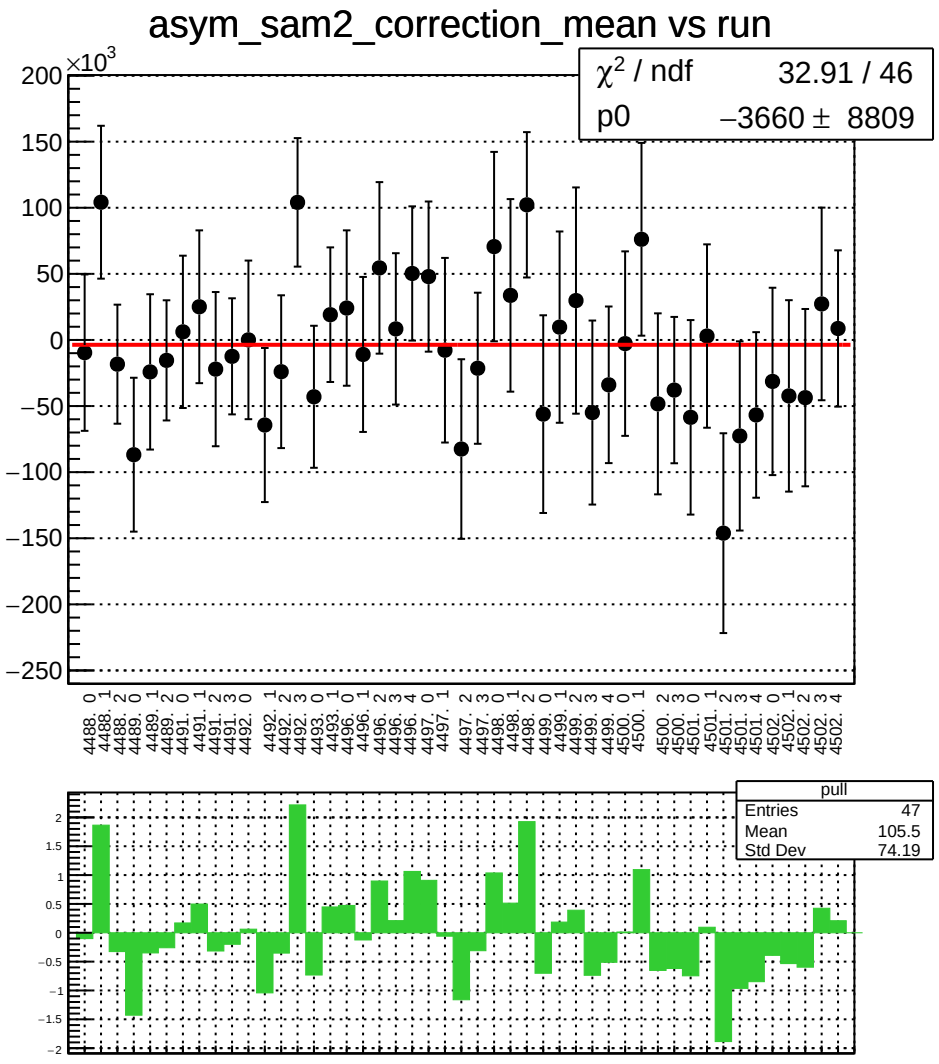

pull1D
Entries 47
Mean −0.0657
Std Dev 0.8292
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

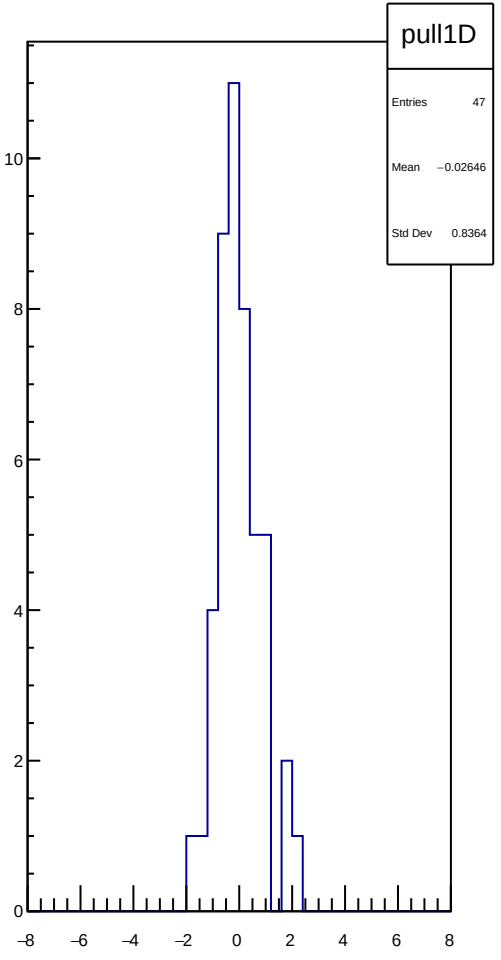

asym_sam1_correction_rms vs run
χ² / ndf 3.278e+05 / 46
p0 292.2 ± 0.366
1600
1400
1200
1000
800
600
400
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

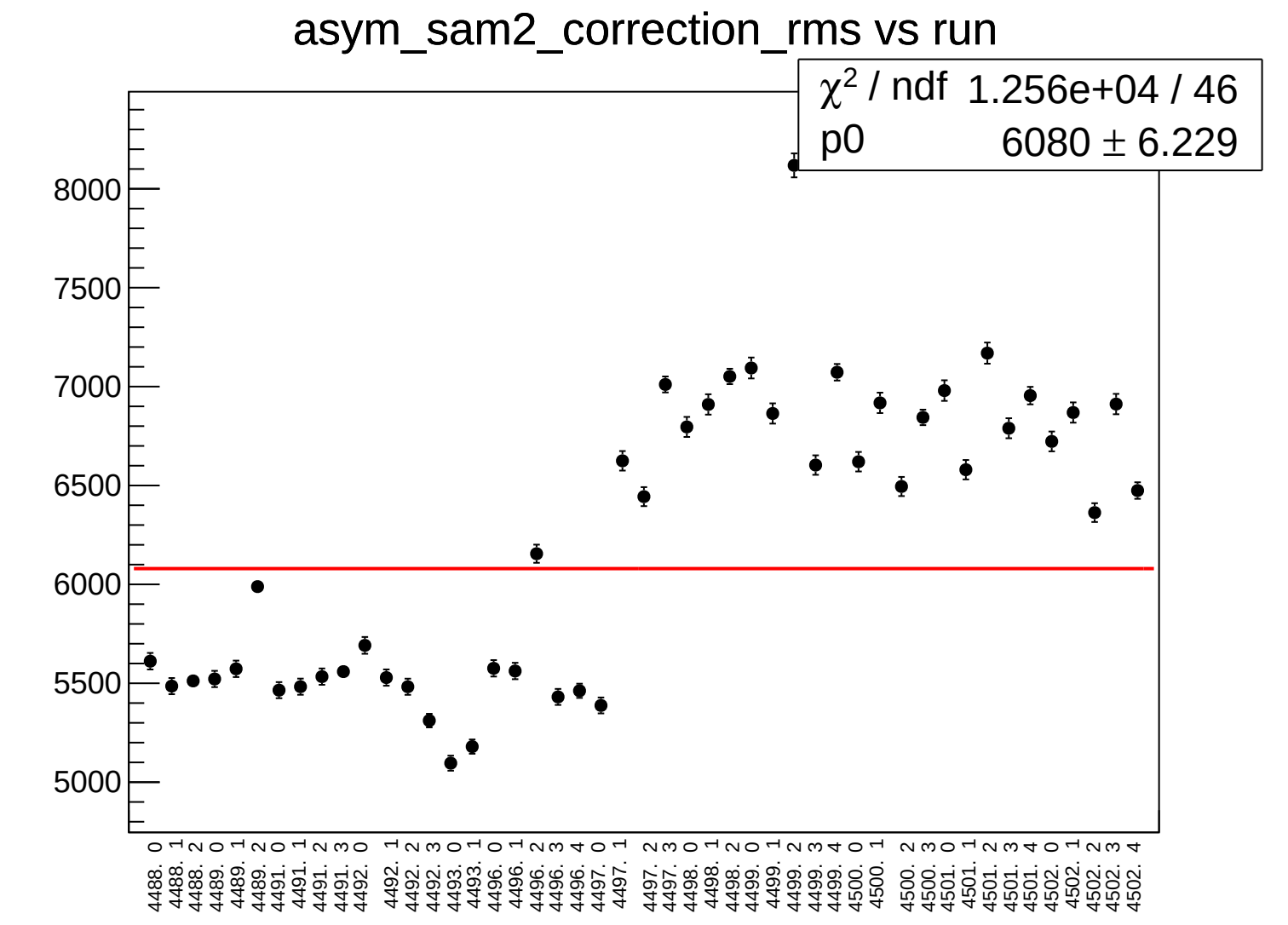

reg_asym_sam2_mean vs run
×10^3
χ² / ndf 55.17 / 46
p0 −244.9 ± 3544
pull
Entries 47
Mean 199.2
Std Dev 112.8

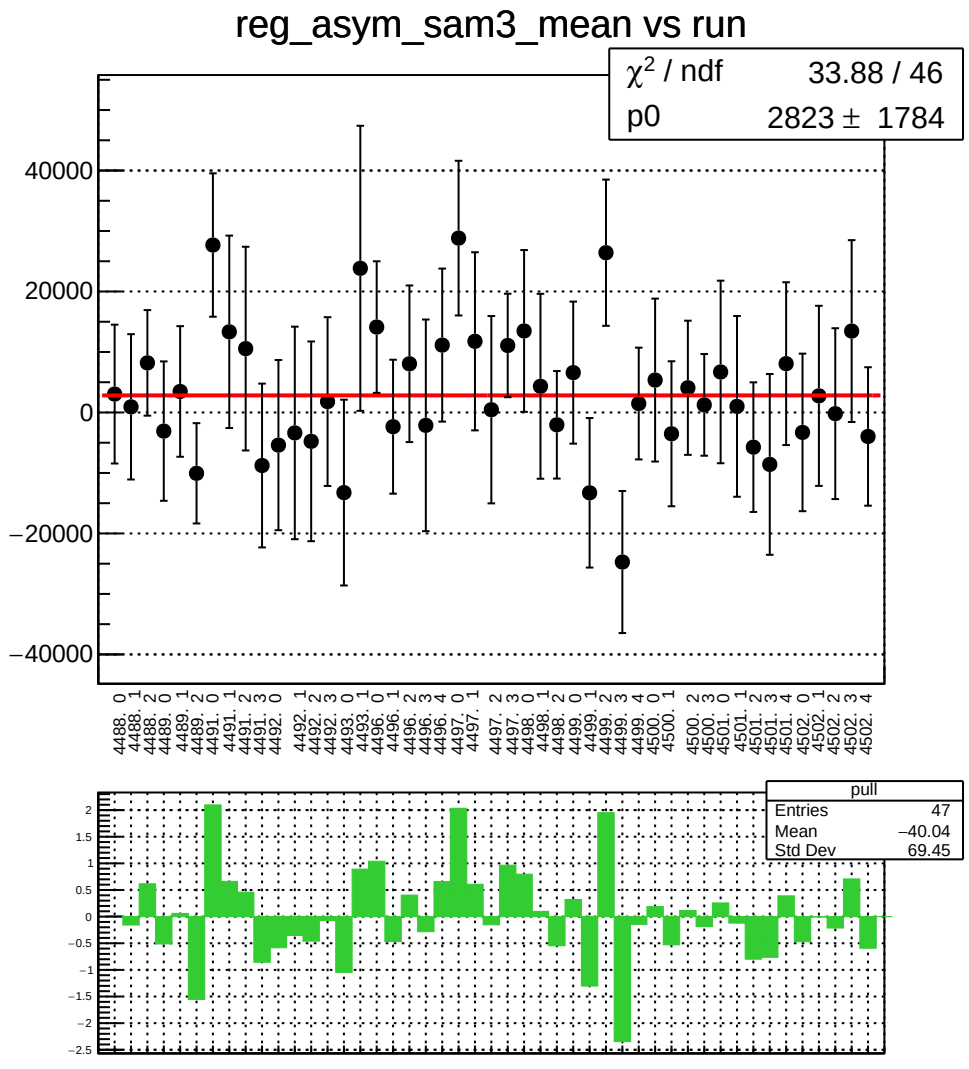

pull1D
Entries 47
Mean 0.003476
Std Dev 1.083

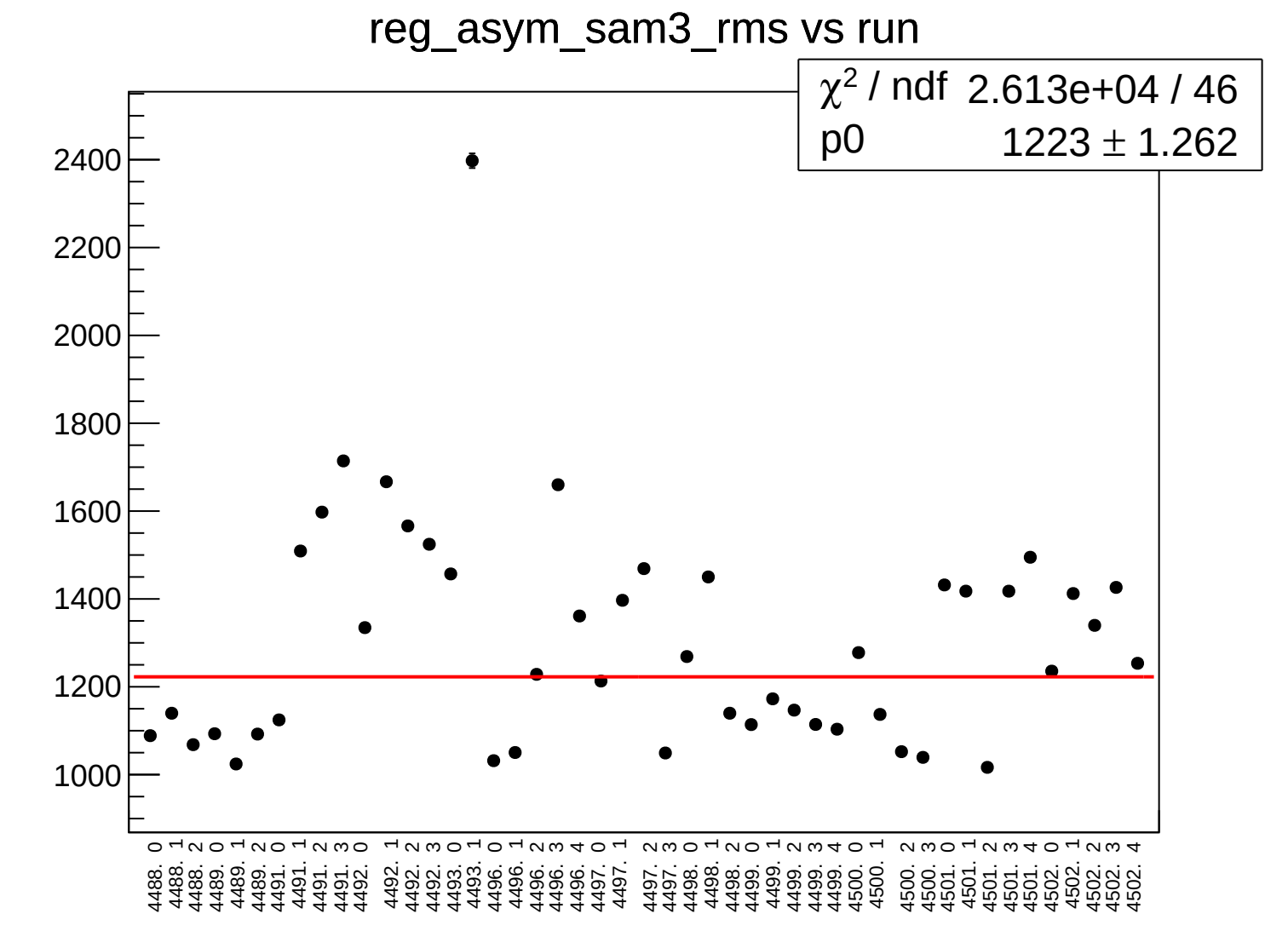

reg_asym_sam2_rms vs run
χ² / ndf 2504 / 46
p0 2459 ± 2.506
2700
2600
2500
2400
2300
2200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

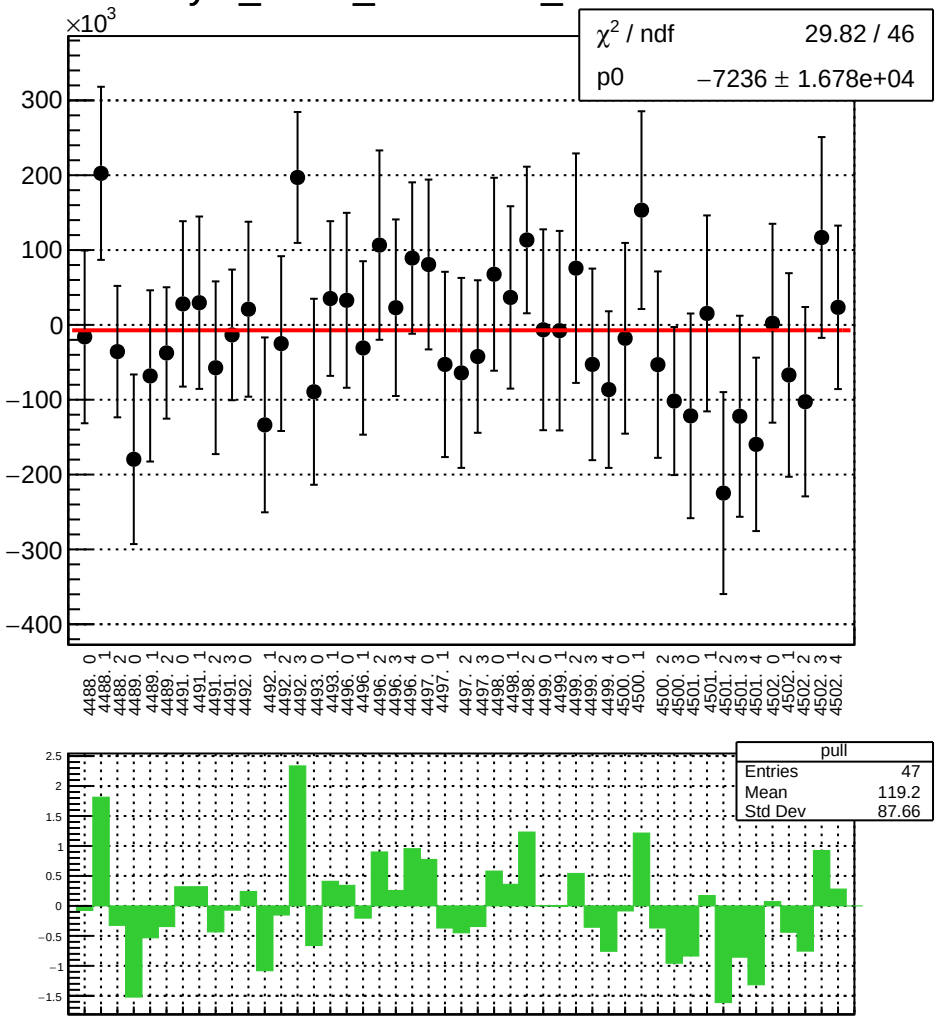

asym_sam2_correction_mean vs run
χ^2 / ndf 32.91 / 46
p0 −3660 ± 8809
×10^3
pull
Entries 47
Mean 105.5
Std Dev 74.19

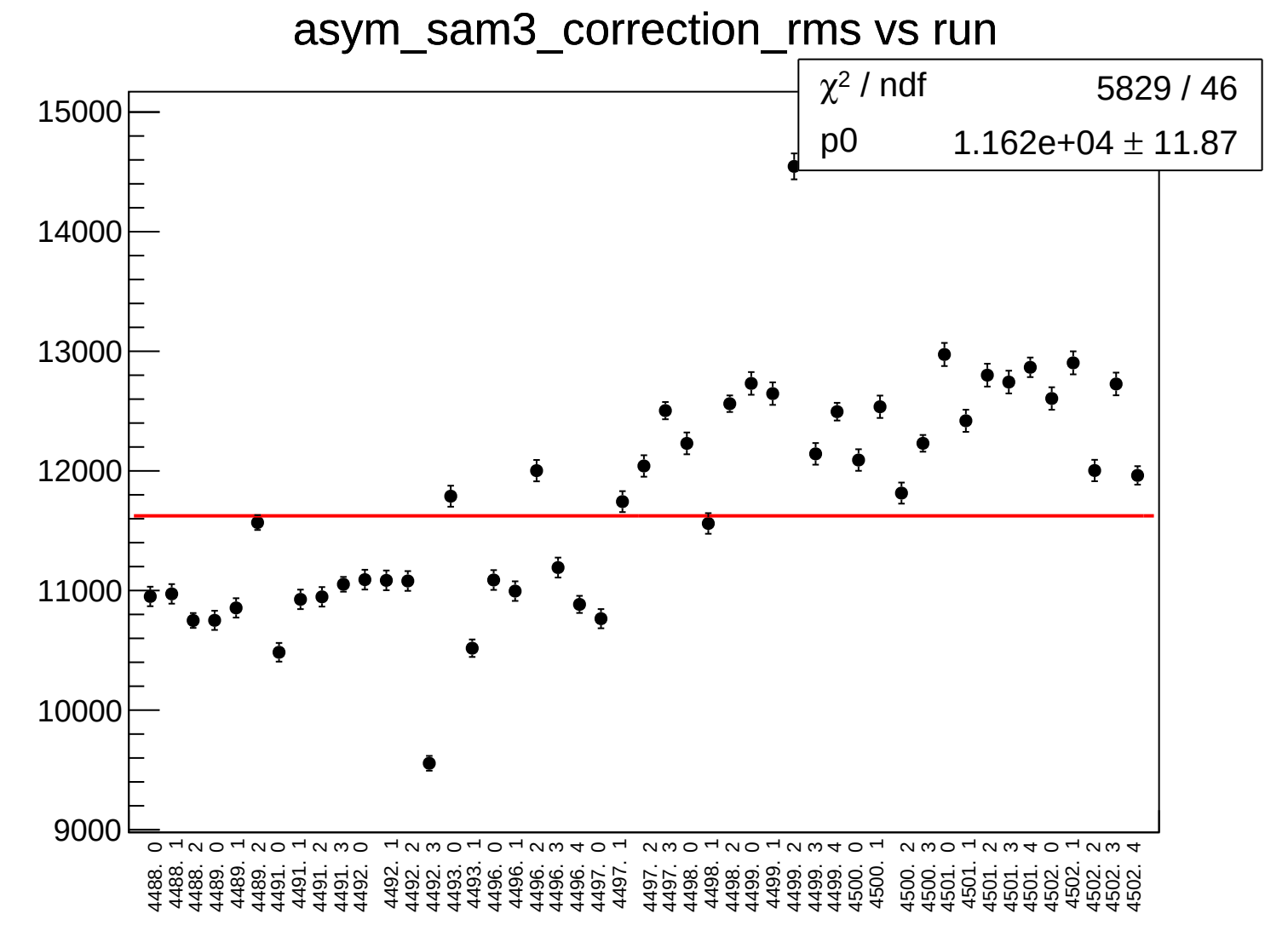

pull1D
Entries 47
Mean −0.02646
Std Dev 0.8364

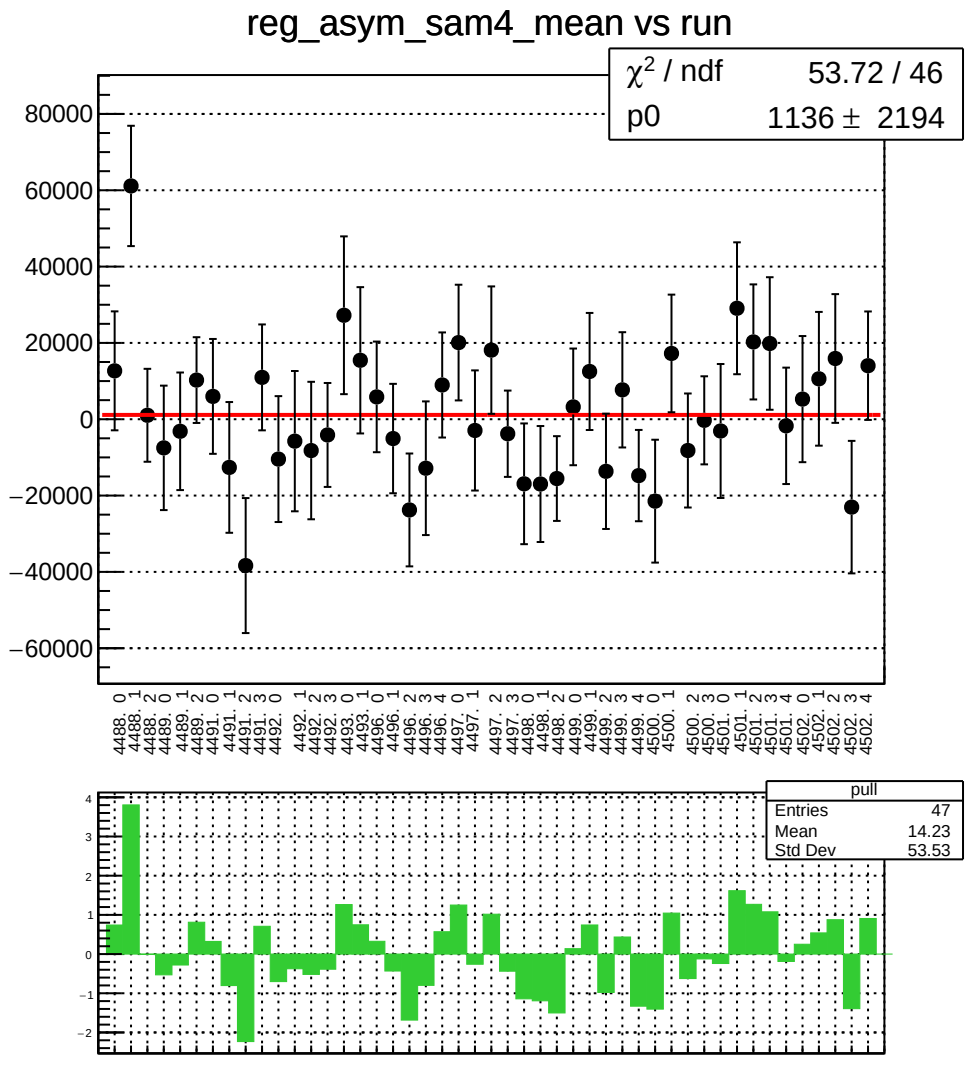

asym_sam2_correction_rms vs run
χ² / ndf 1.256e+04 / 46
p0 6080 ± 6.229
8000
7500
7000
6500
6000
5500
5000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

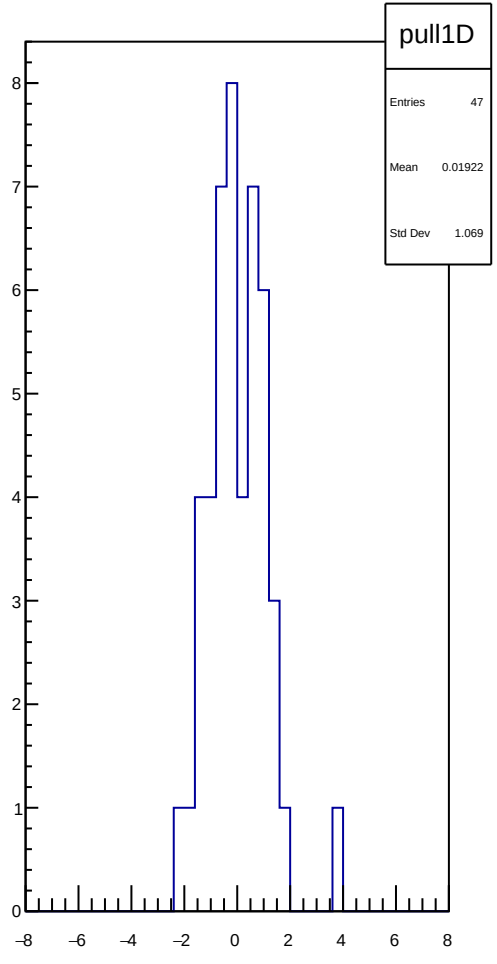

reg_asym_sam3_mean vs run
χ² / ndf 33.88 / 46
p0 2823 ± 1784
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −40.04
Std Dev 69.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean 0.01727
Std Dev 0.8488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

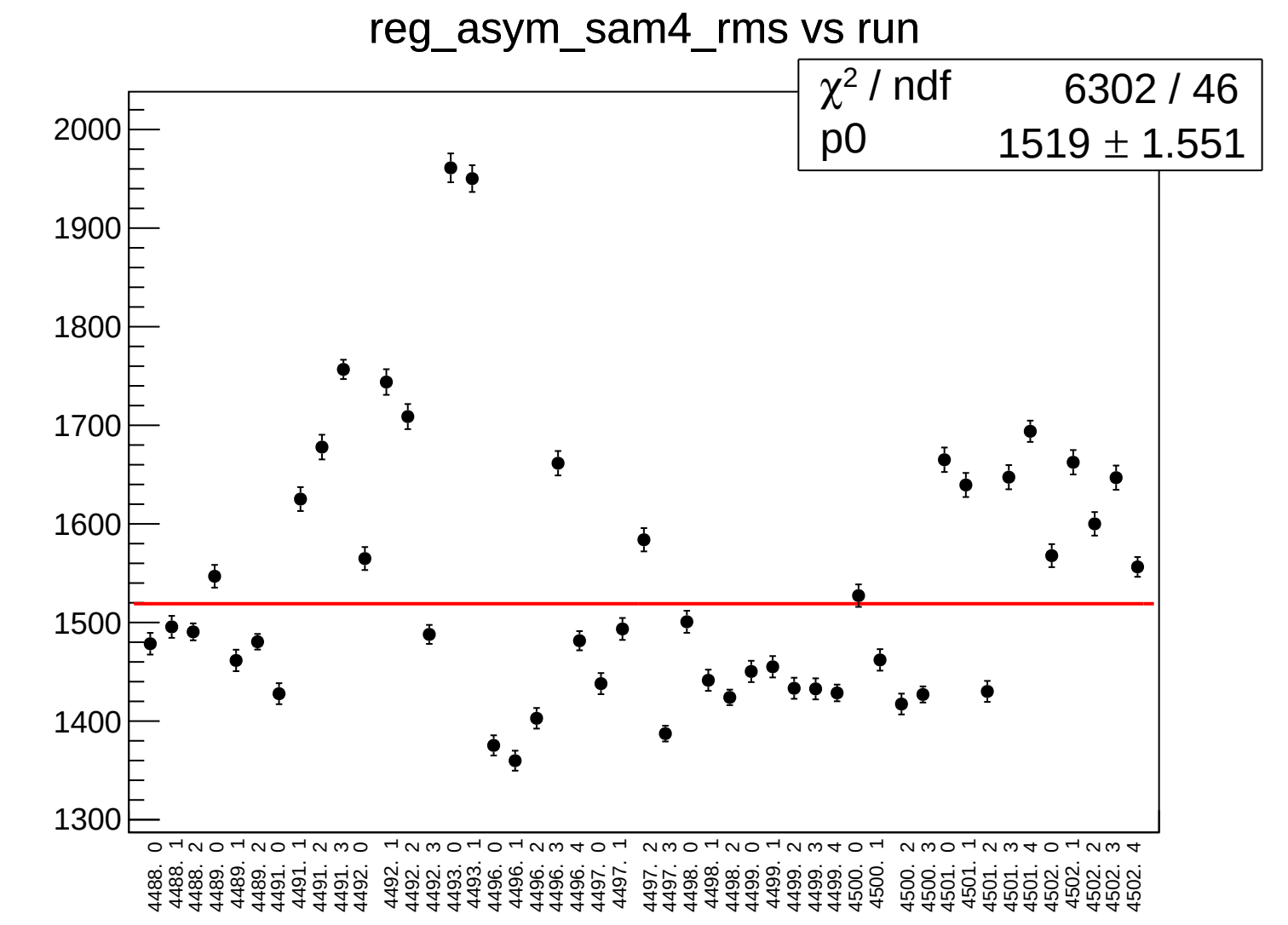

reg_asym_sam3_rms vs run
χ² / ndf 2.613e+04 / 46
p0 1223 ± 1.262
2400
2200
2000
1800
1600
1400
1200
1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

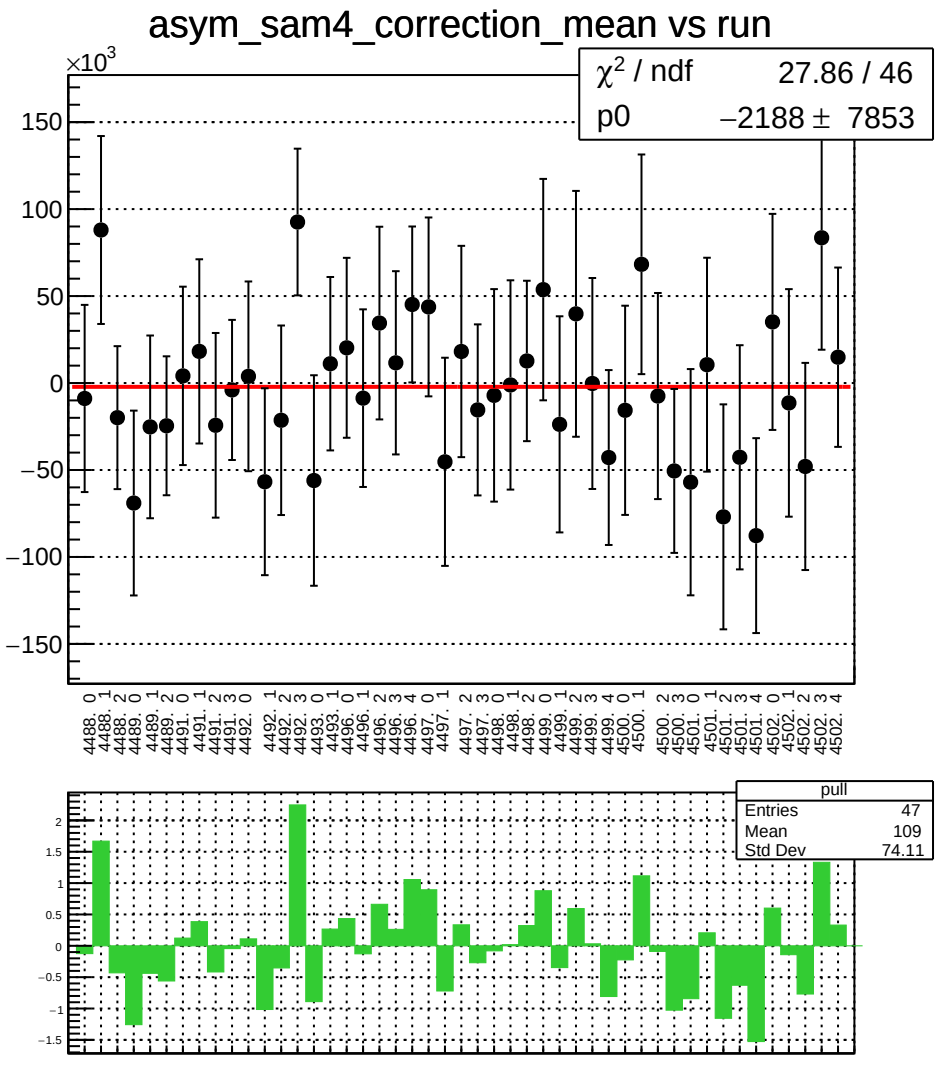

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 29.82 / 46
p0 −7236 ± 1.678e+04
300
200
100
0
−100
−200
−300
−400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 119.2
Std Dev 87.66
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.0179
Std Dev 0.7964
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

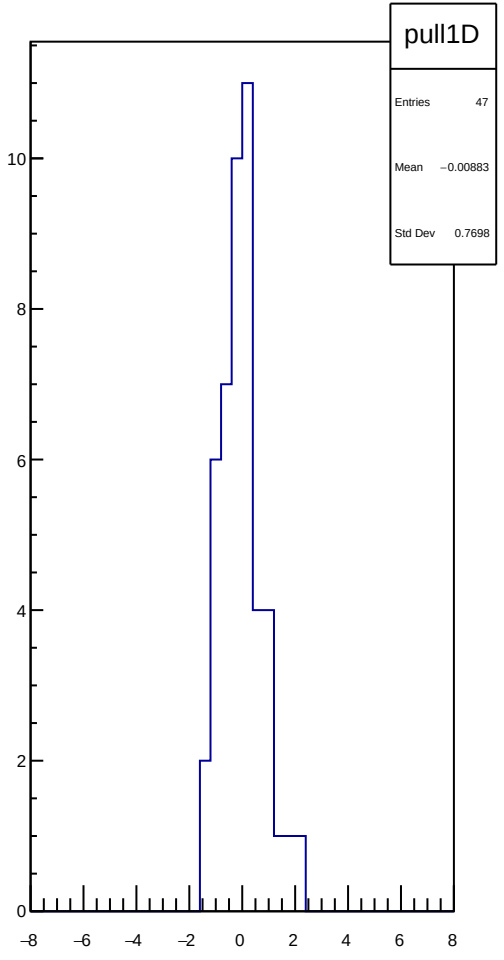

asym_sam3_correction_rms vs run
χ² / ndf 5829 / 46
p0 1.162e+04 ± 11.87
15000
14000
13000
12000
11000
10000
9000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

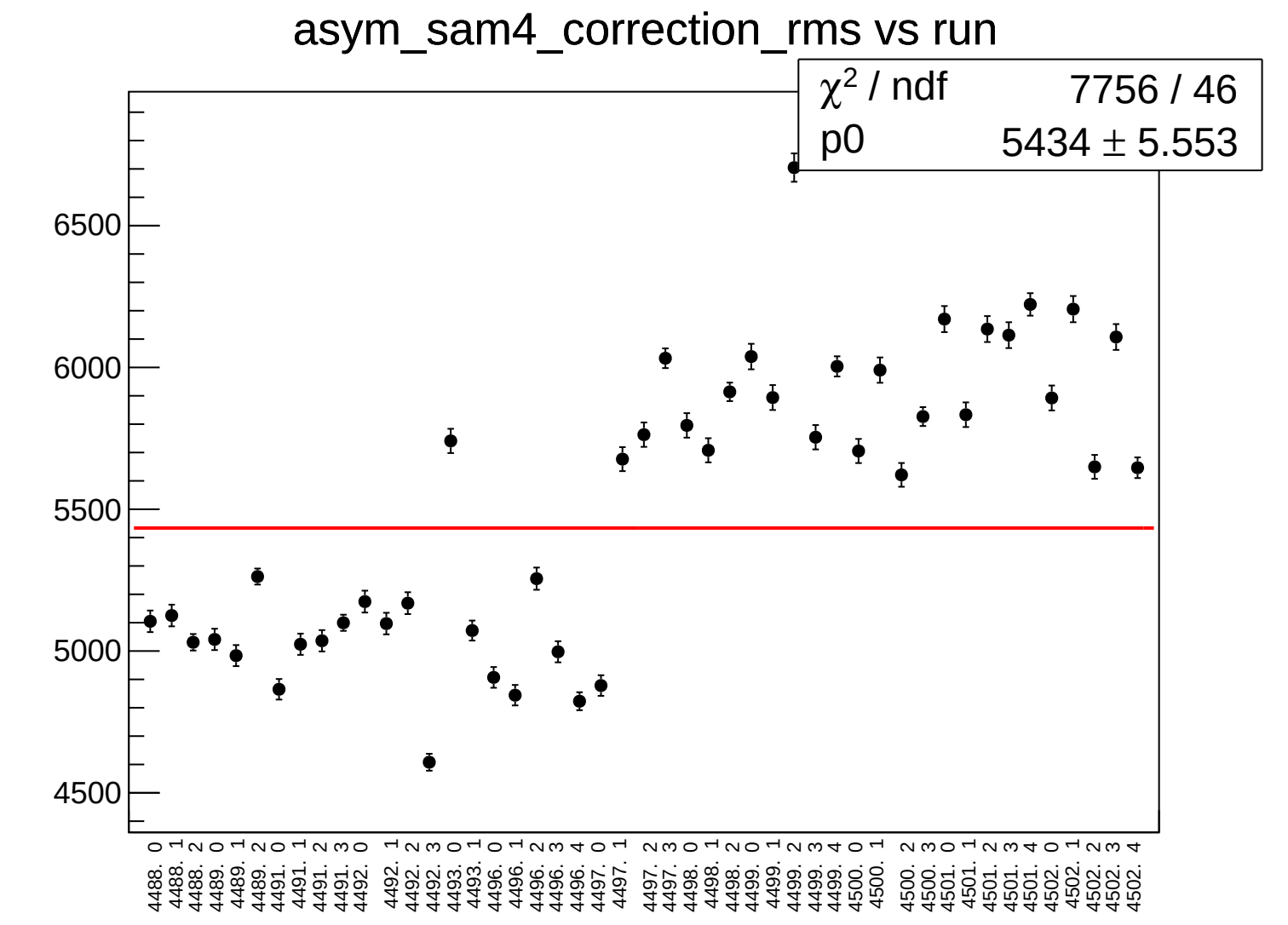

reg_asym_sam4_mean vs run
χ² / ndf 53.72 / 46
p0 1136 ± 2194
80000
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 14.23
Std Dev 53.53
4
3
2
1
0
−1
−2

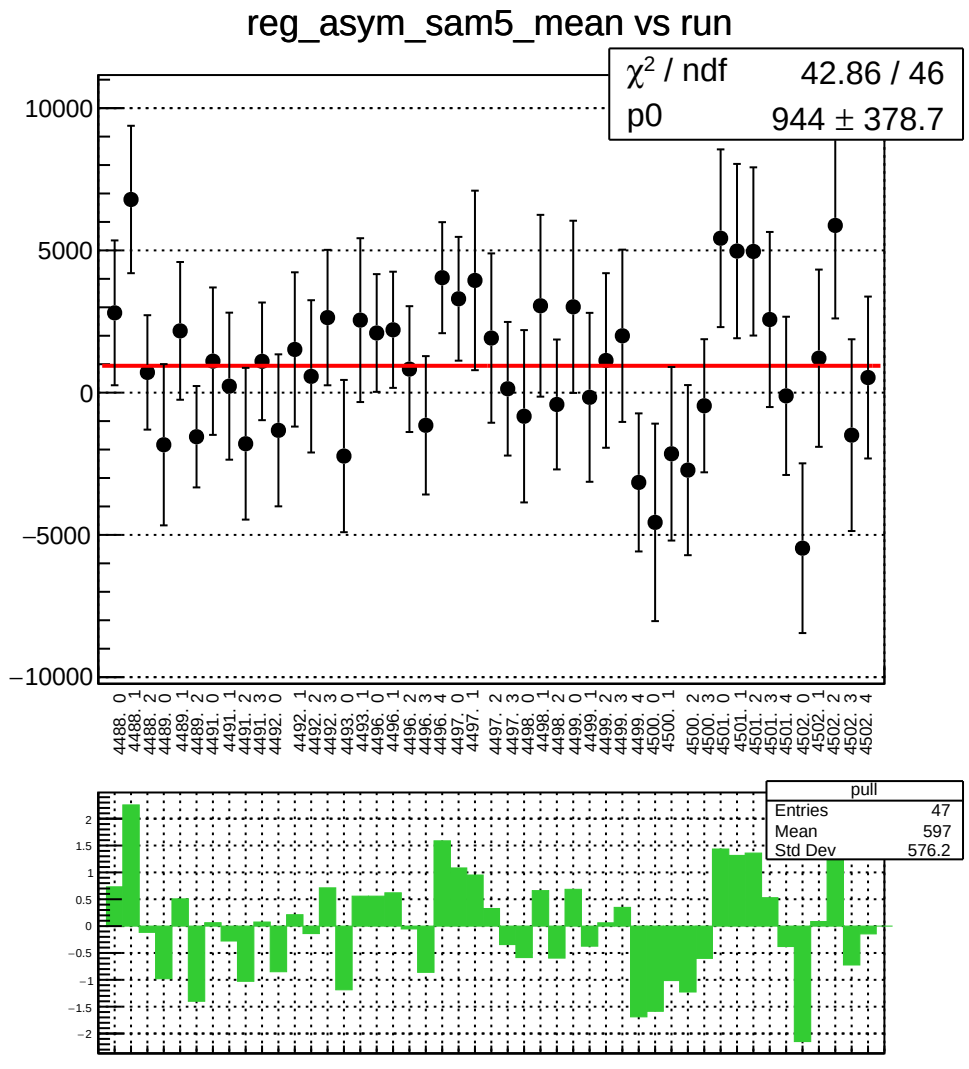

pull1D
Entries 47
Mean 0.01922
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

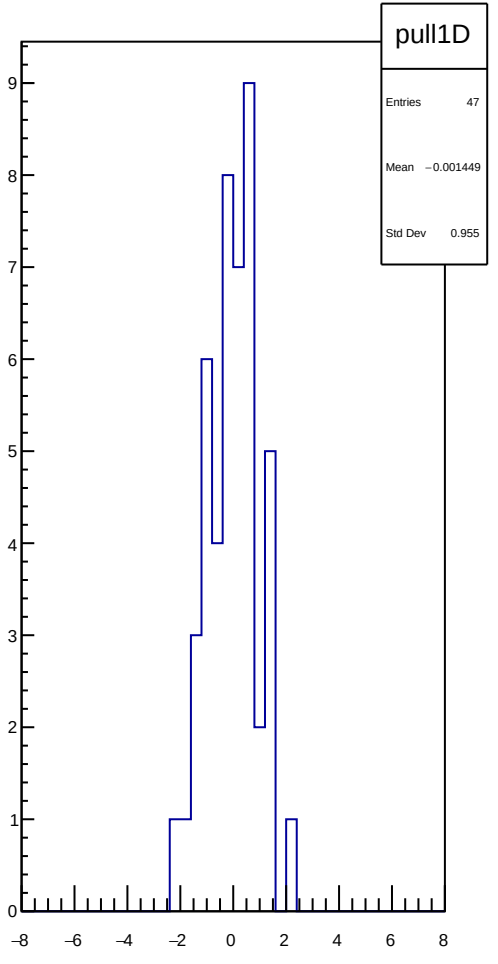

reg_asym_sam4_rms vs run
χ² / ndf 6302 / 46
p0 1519 ± 1.551
2000
1900
1800
1700
1600
1500
1400
1300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

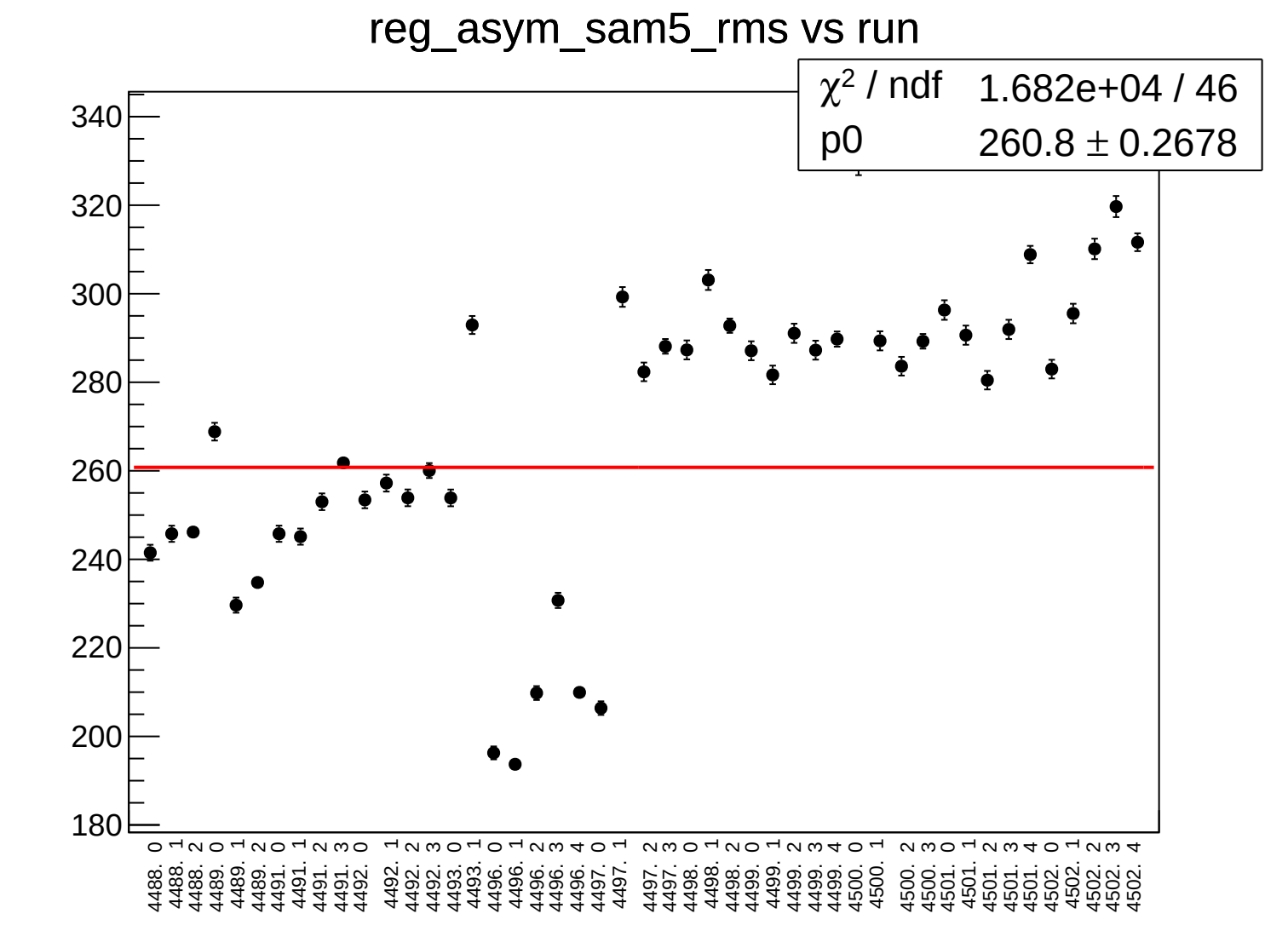

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 27.86 / 46
p0 −2188 ± 7853
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 109
Std Dev 74.11
2
1.5
1
0.5
0
−0.5
−1
−1.5

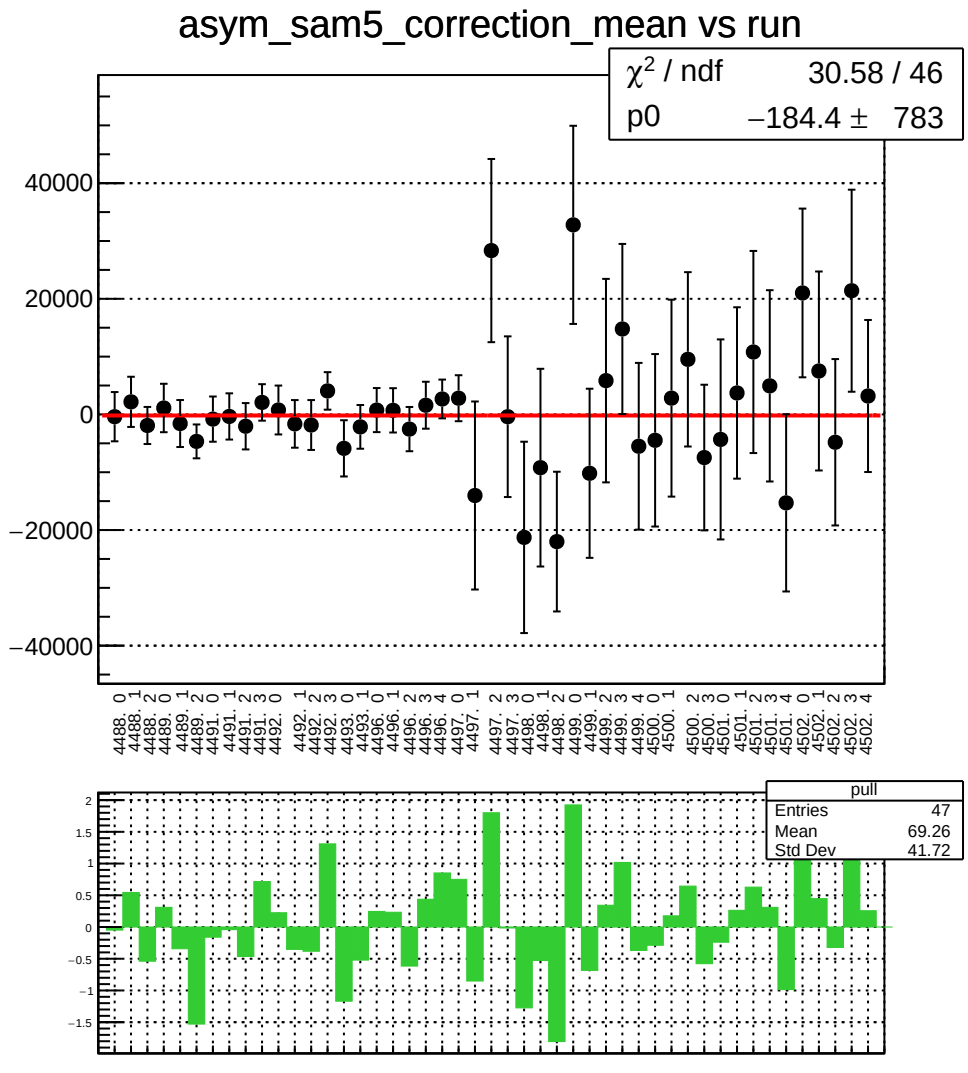

pull1D
Entries 47
Mean −0.00883
Std Dev 0.7698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

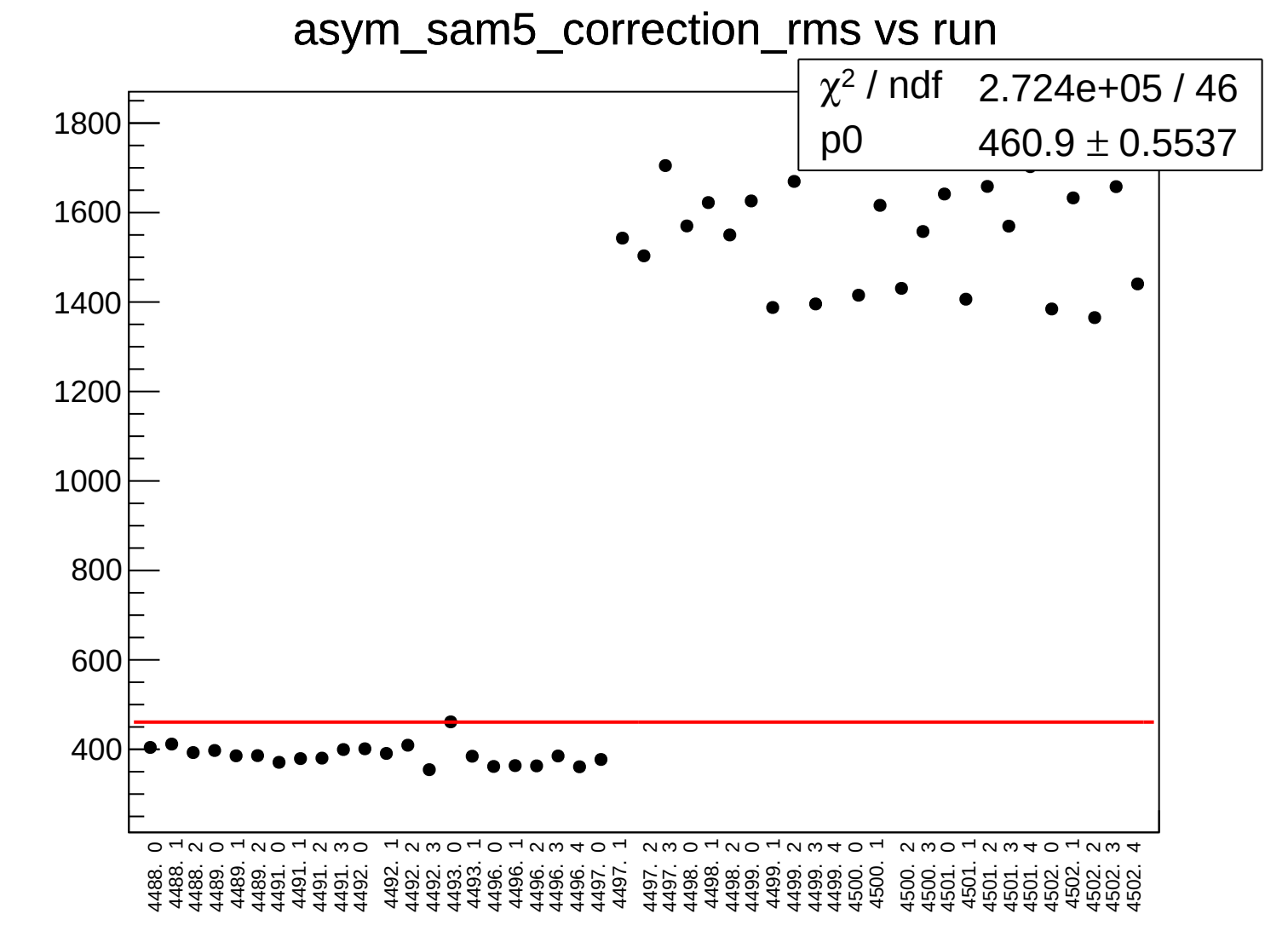

asym_sam4_correction_rms vs run
χ^2 / ndf 7756 / 46
p0 5434 ± 5.553
6500
6000
5500
5000
4500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

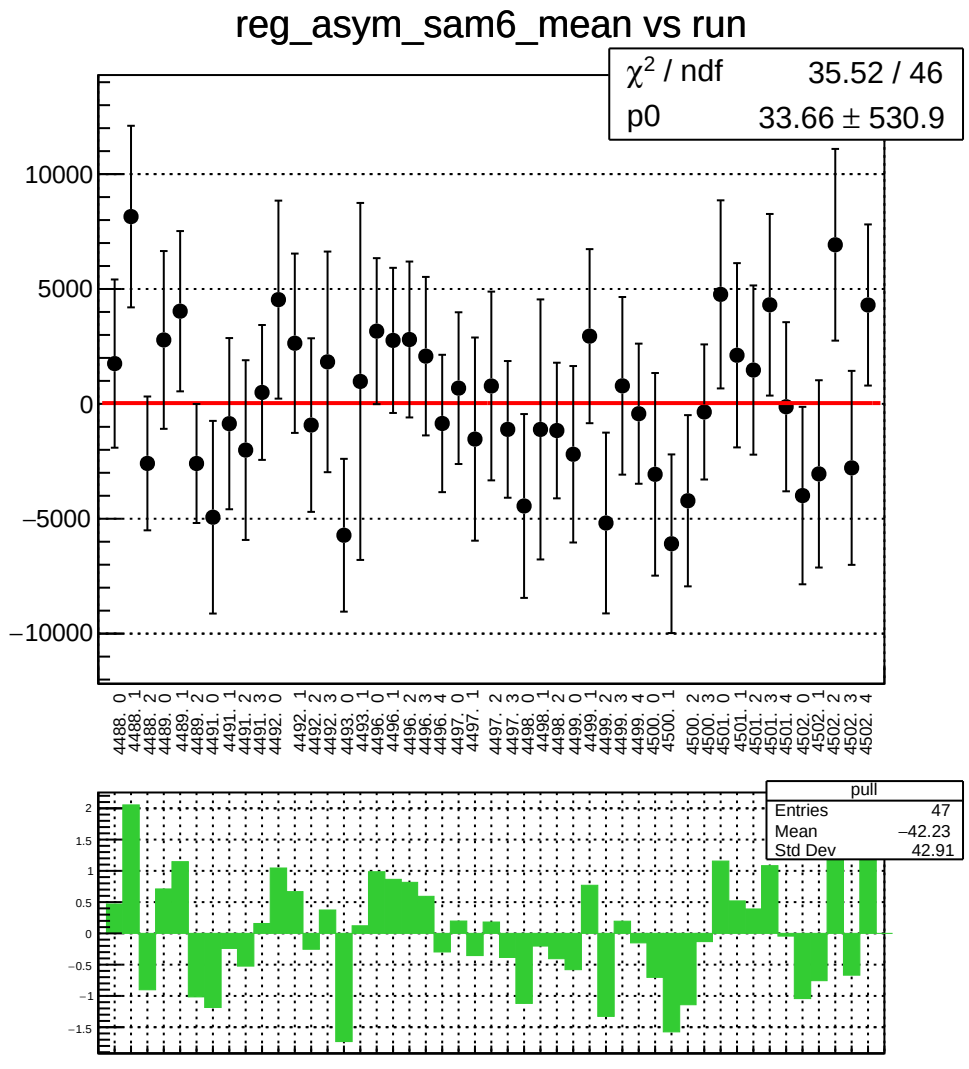

reg_asym_sam5_mean vs run
χ² / ndf 42.86 / 46
p0 944 ± 378.7
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 597
Std Dev 576.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

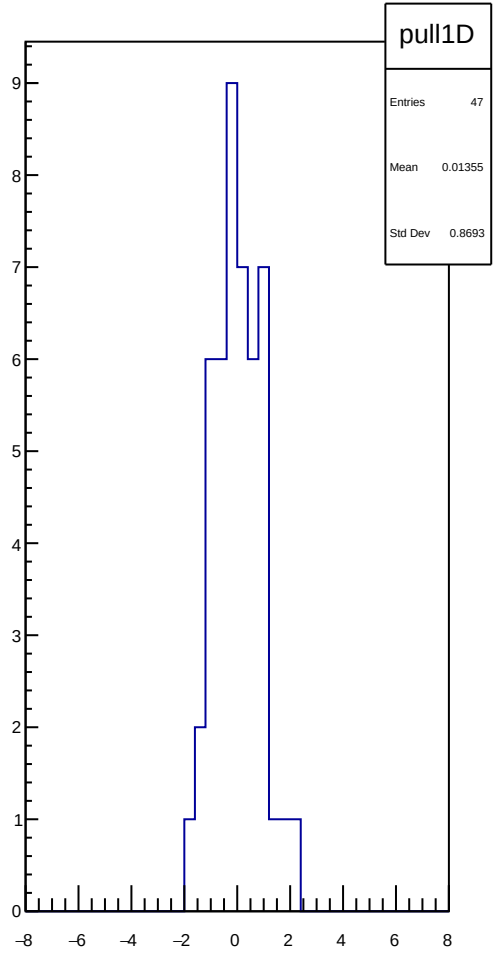

pull1D
Entries 47
Mean −0.001449
Std Dev 0.955
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

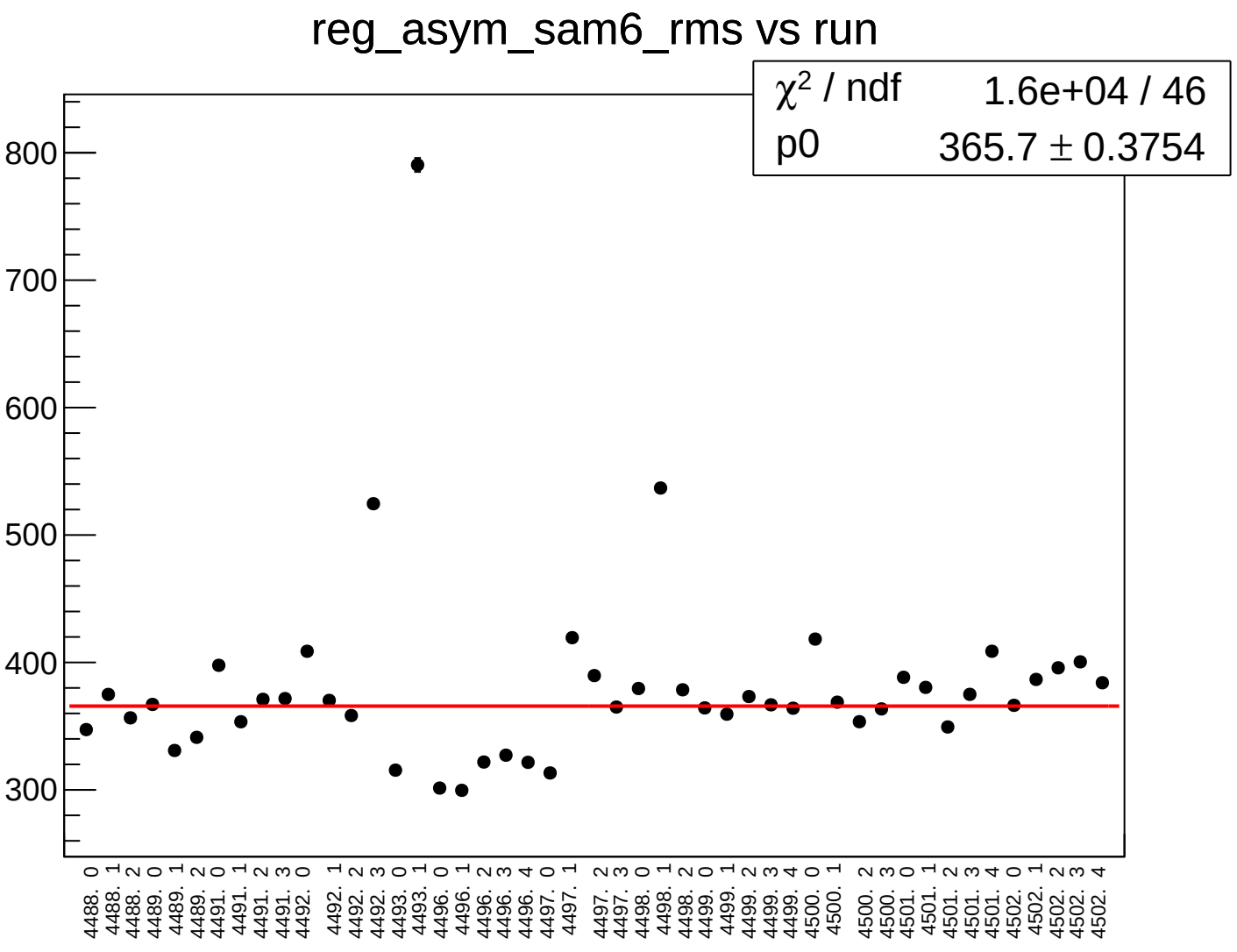

reg_asym_sam5_rms vs run
χ² / ndf 1.682e+04 / 46
p0 260.8 ± 0.2678
340
320
300
280
260
240
220
200
180
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

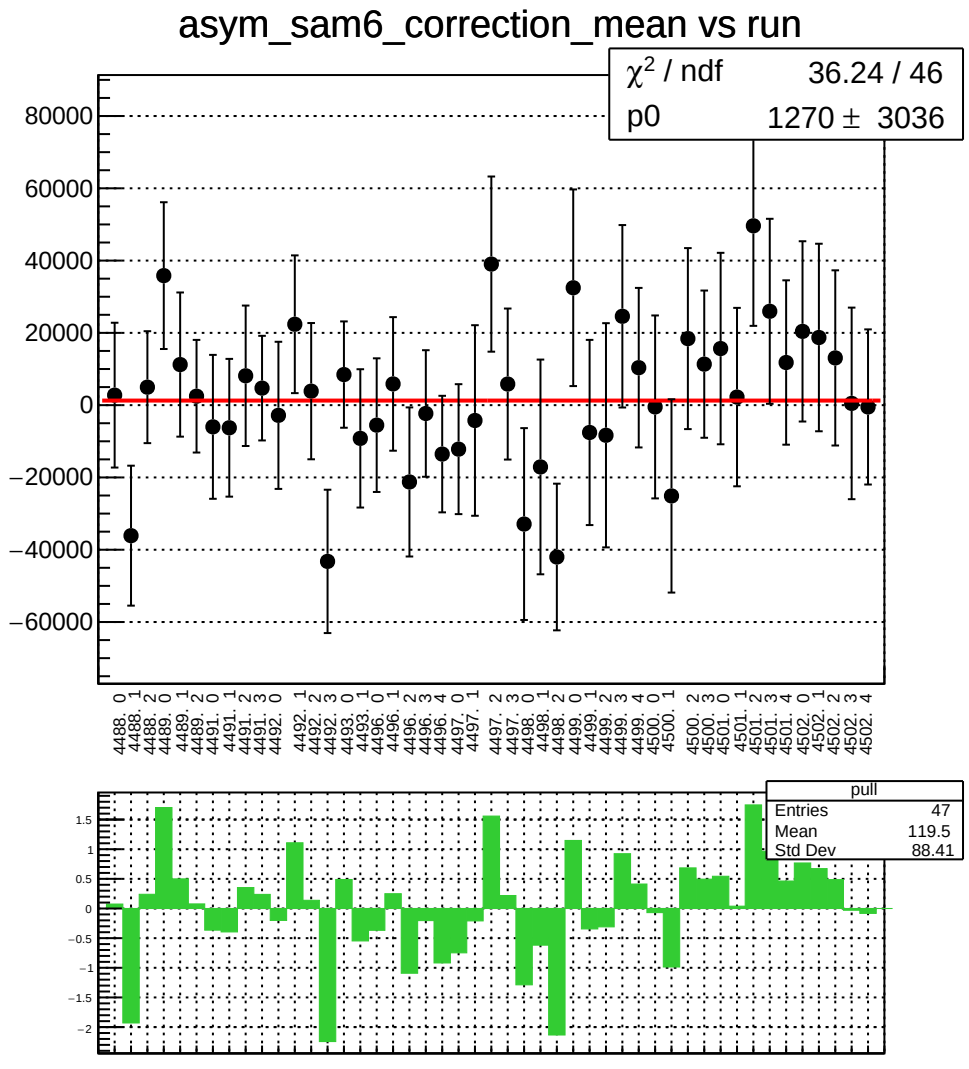

asym_sam5_correction_mean vs run
χ² / ndf 30.58 / 46
p0 −184.4 ± 783
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 69.26
Std Dev 41.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.04296
Std Dev 0.8055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

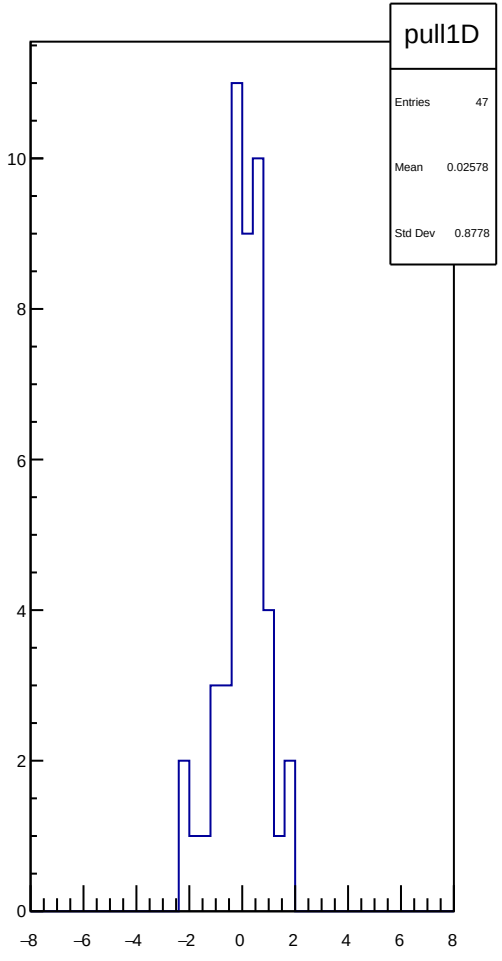

asym_sam5_correction_rms vs run
χ² / ndf 2.724e+05 / 46
p0 460.9 ± 0.5537
1800
1600
1400
1200
1000
800
600
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

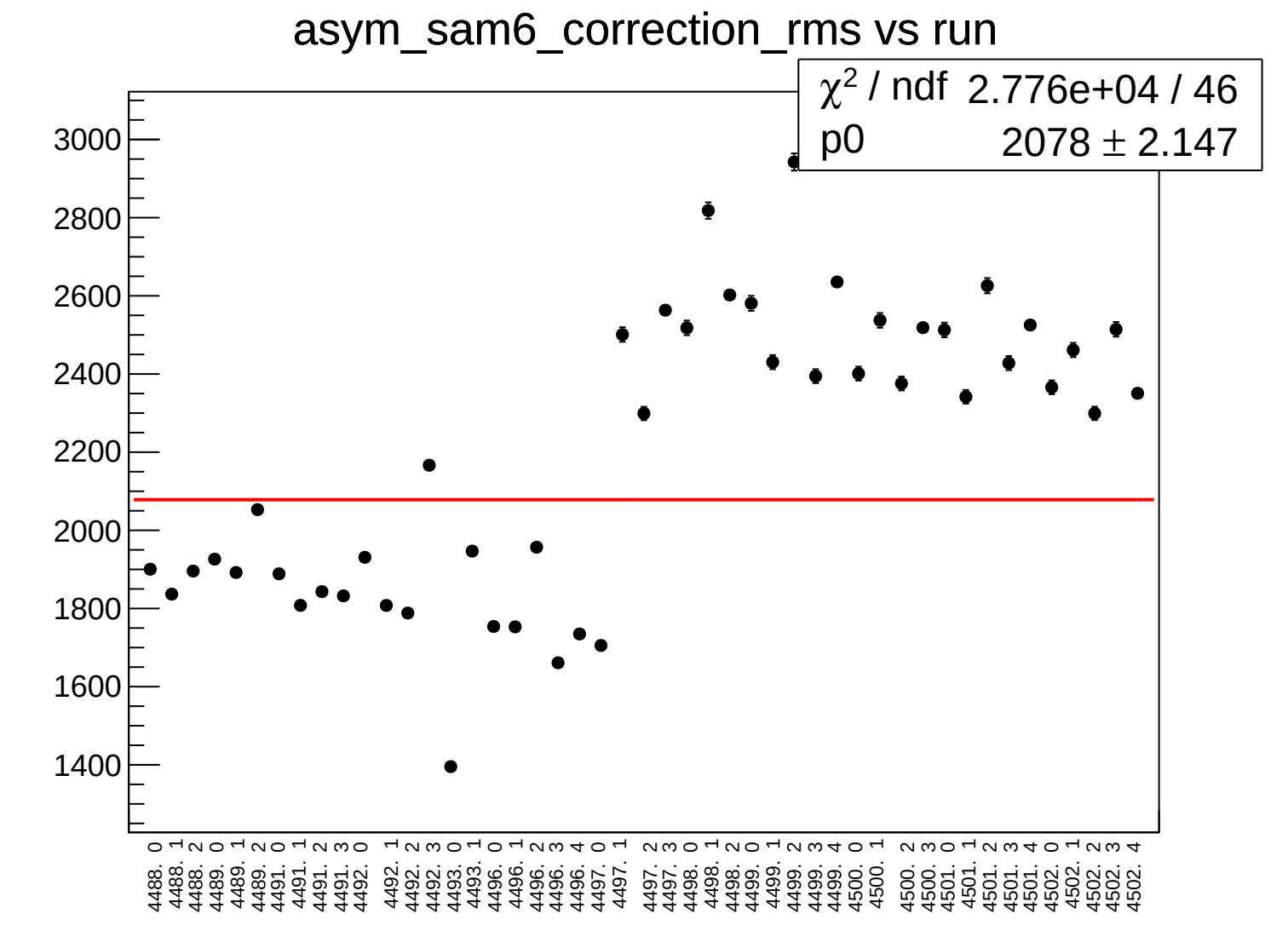

reg_asym_sam6_mean vs run
χ² / ndf 35.52 / 46
p0 33.66 ± 530.9
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −42.23
Std Dev 42.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

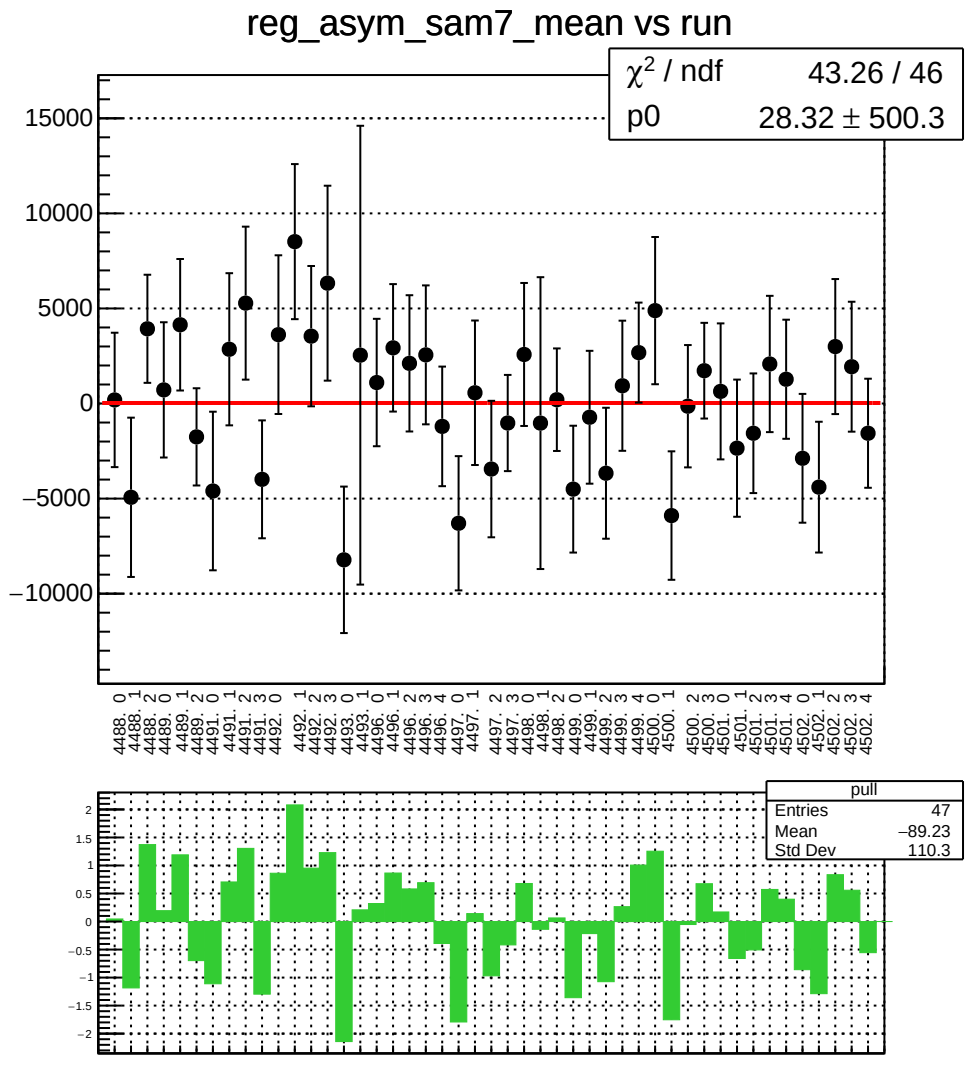

pull1D
Entries 47
Mean 0.01355
Std Dev 0.8693
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

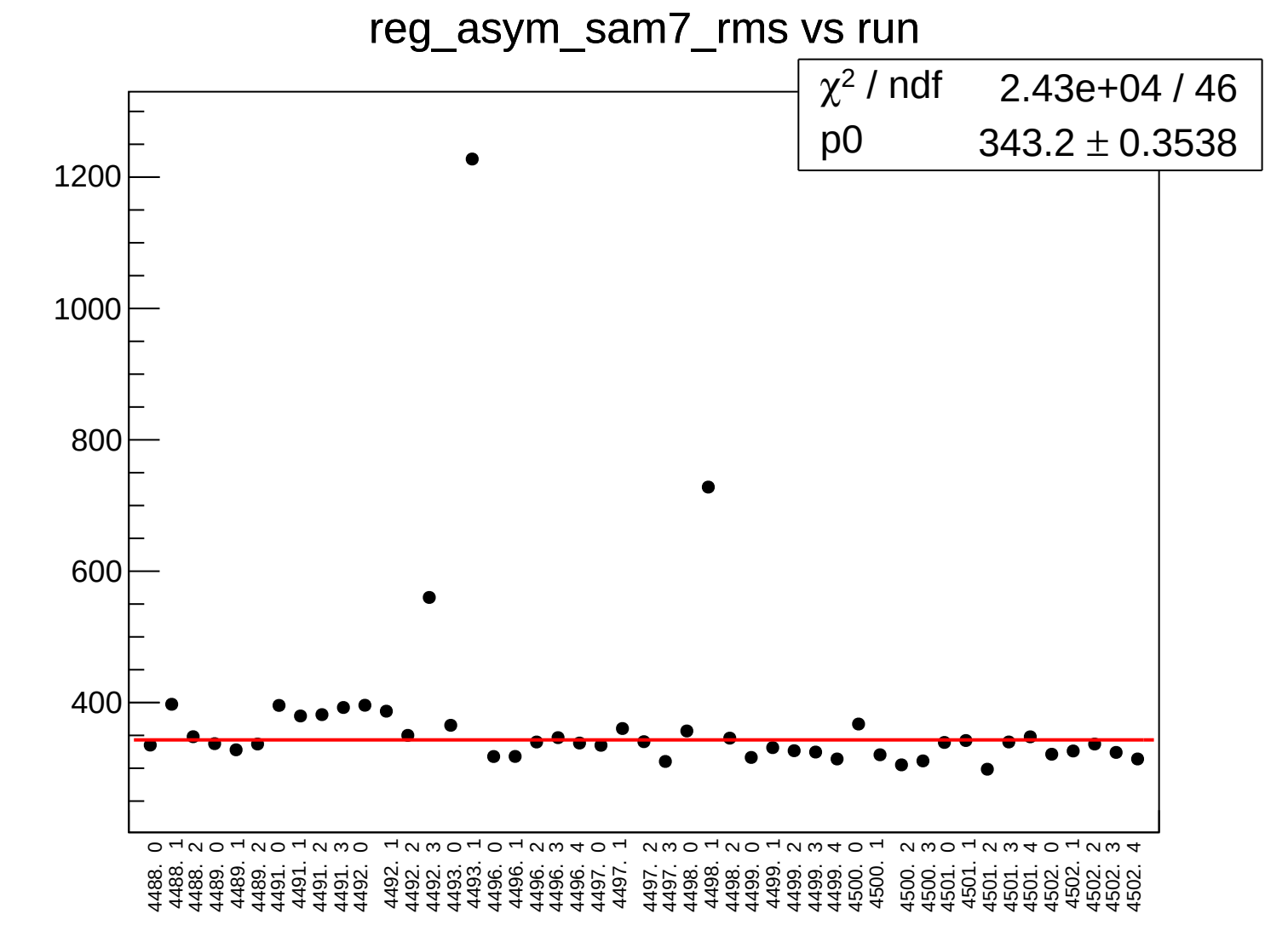

reg_asym_sam6_rms vs run
χ² / ndf 1.6e+04 / 46
p0 365.7 ± 0.3754
800
700
600
500
400
300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

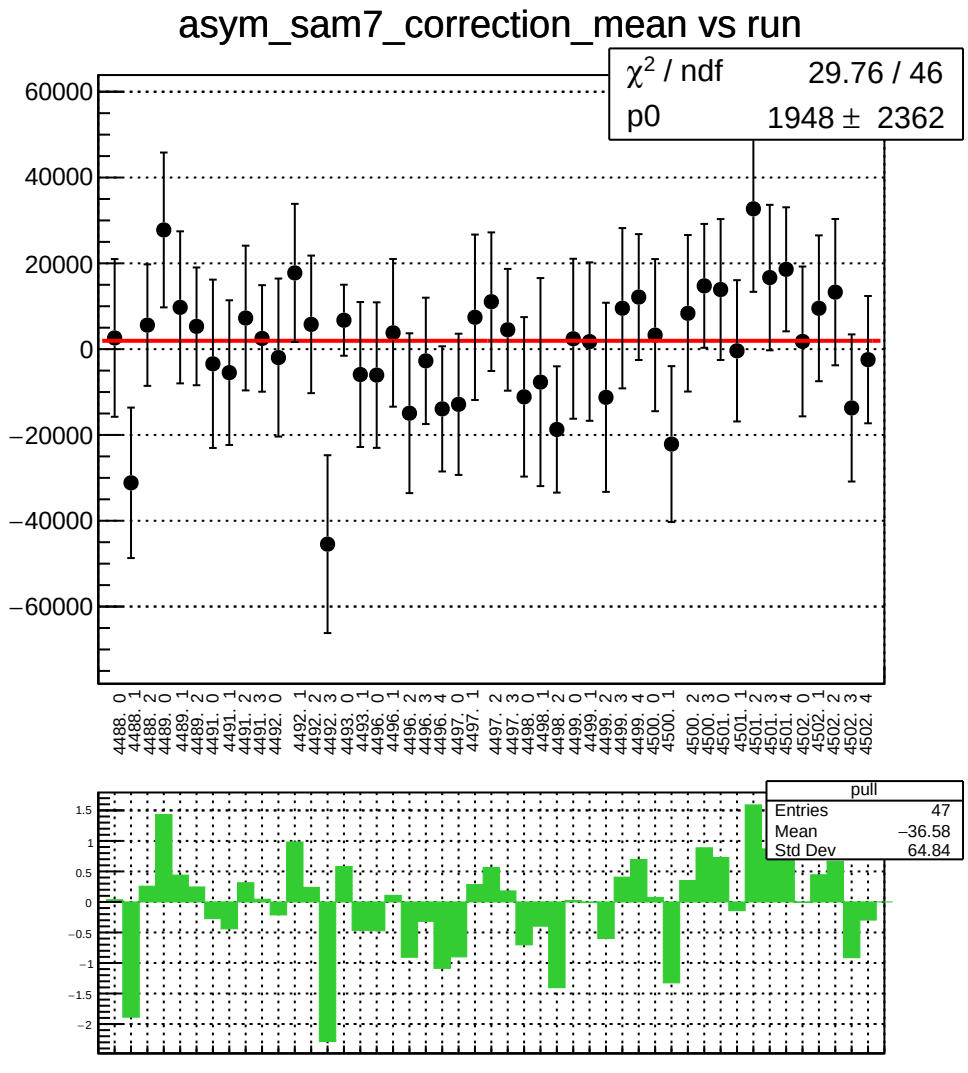

asym_sam6_correction_mean vs run
χ² / ndf 36.24 / 46
p0 1270 ± 3036
80000
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 119.5
Std Dev 88.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2

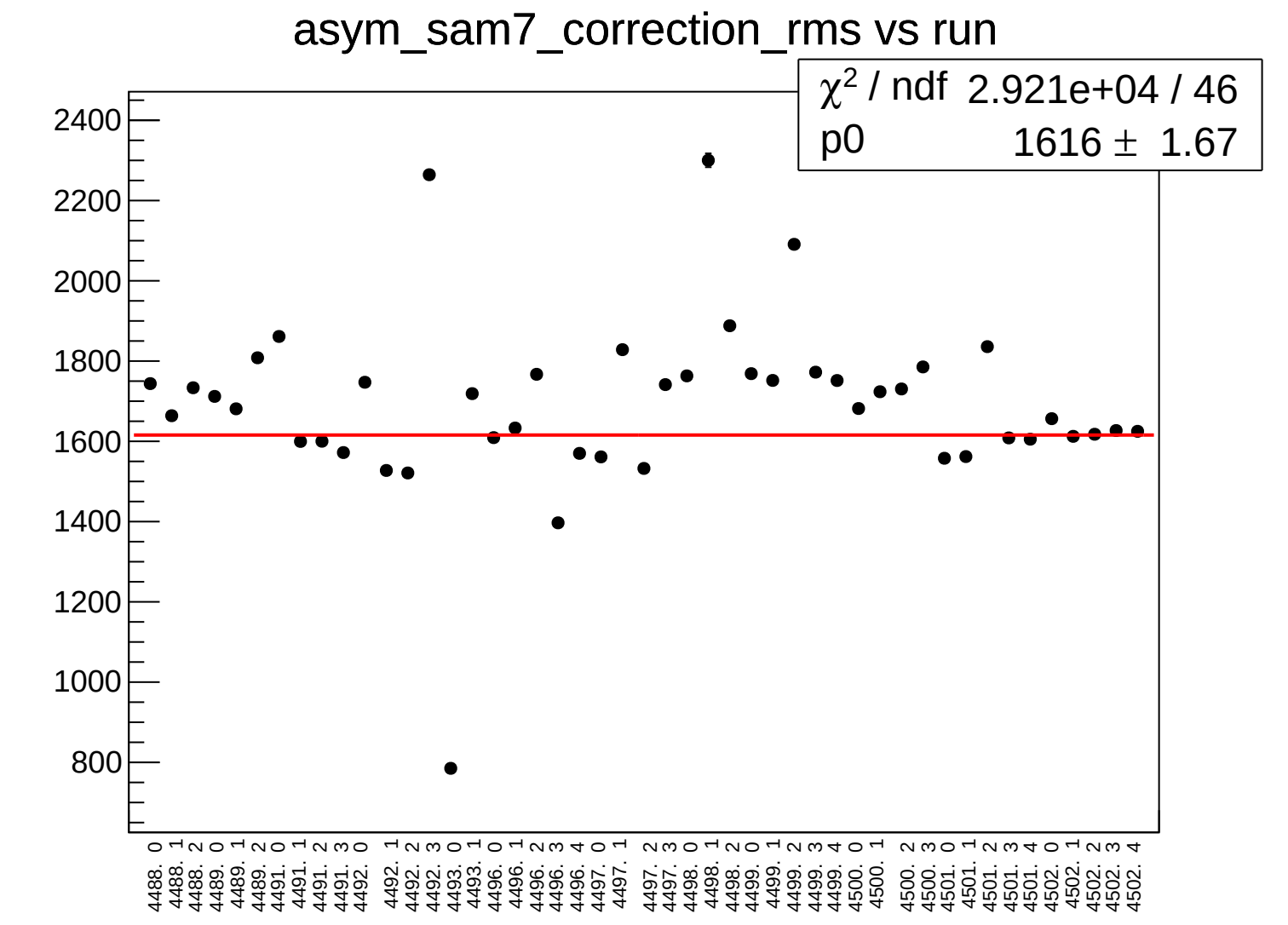

pull1D
Entries 47
Mean 0.02578
Std Dev 0.8778
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

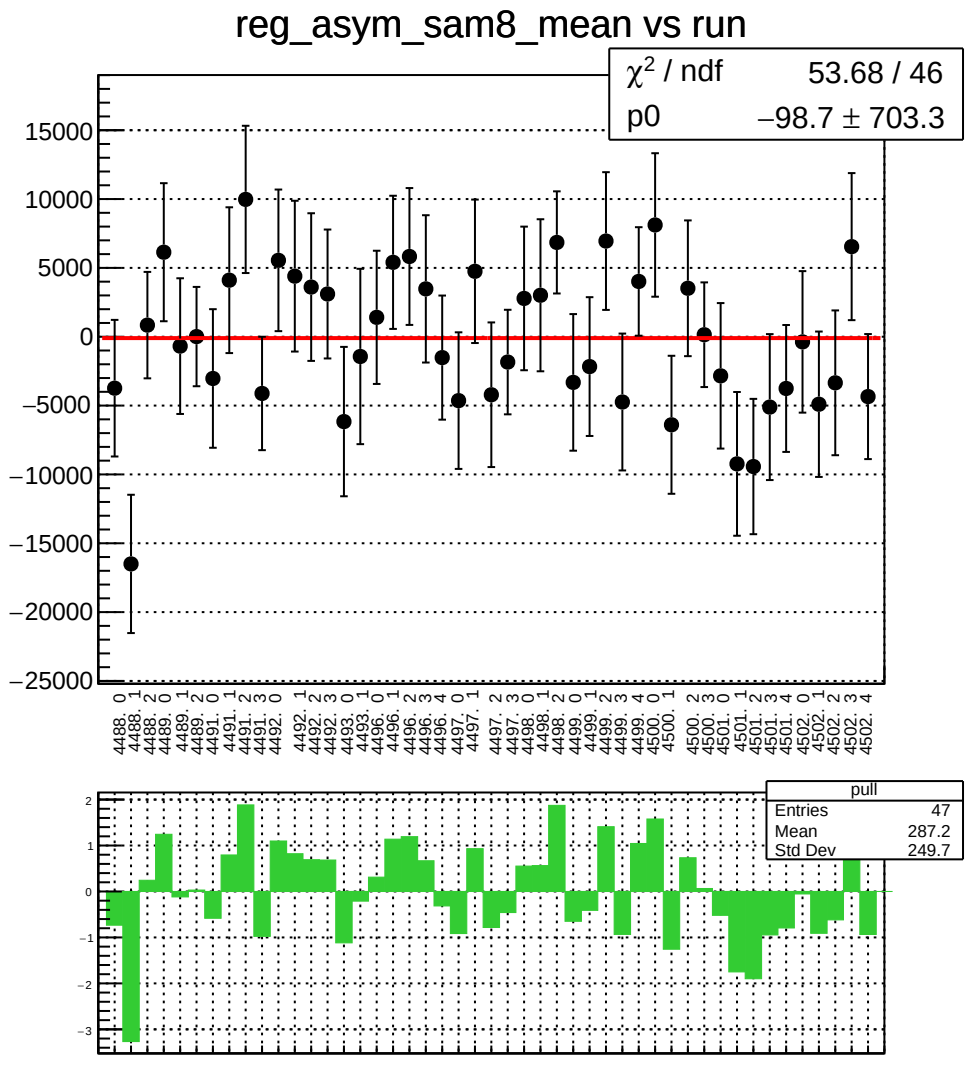

asym_sam6_correction_rms vs run
χ² / ndf 2.776e+04 / 46
p0 2078 ± 2.147
3000
2800
2600
2400
2200
2000
1800
1600
1400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

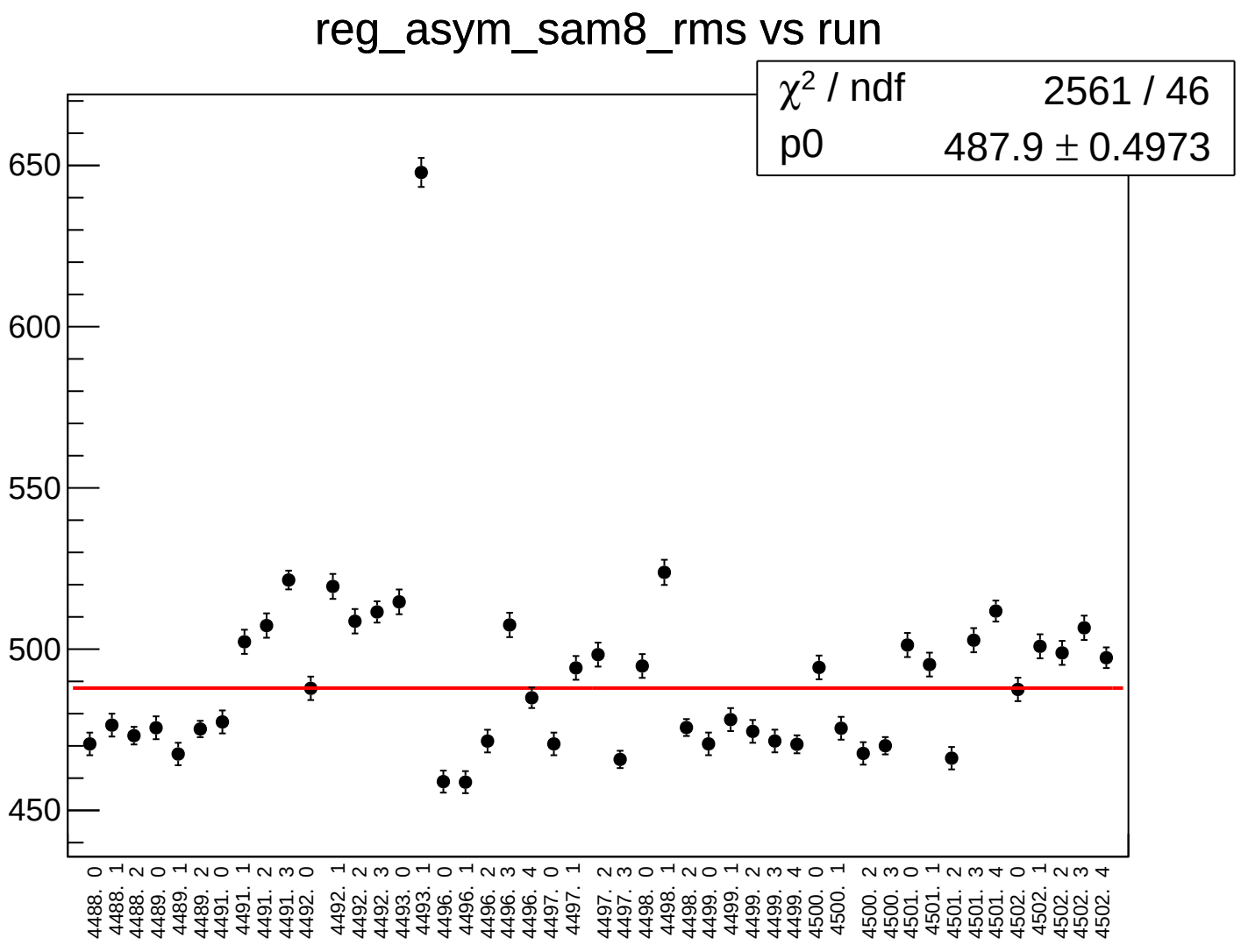

reg_asym_sam7_mean vs run
χ² / ndf 43.26 / 46
p0 28.32 ± 500.3
15000
10000
5000
0
−5000
−10000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −89.23
Std Dev 110.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean 0.01649
Std Dev 0.9592
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

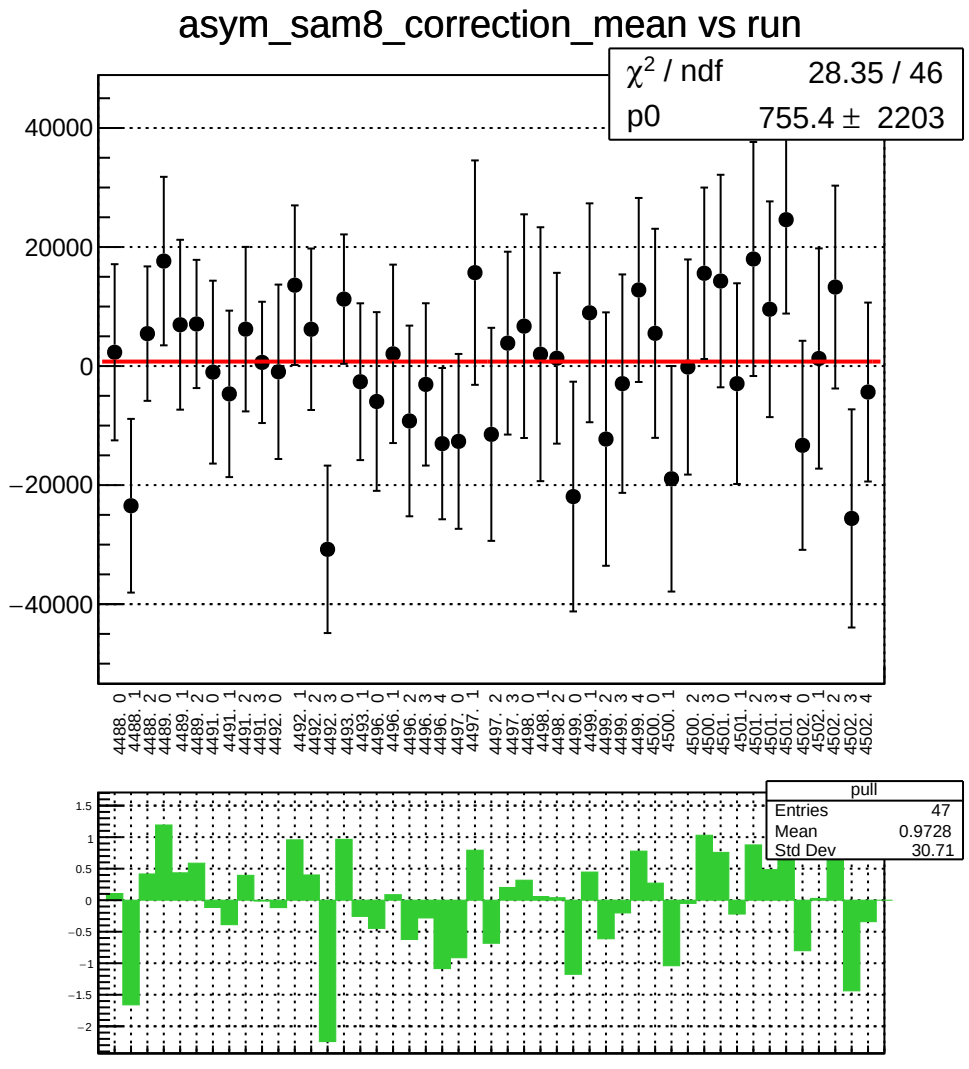

reg_asym_sam7_rms vs run
χ² / ndf 2.43e+04 / 46
p0 343.2 ± 0.3538
1200
1000
800
600
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

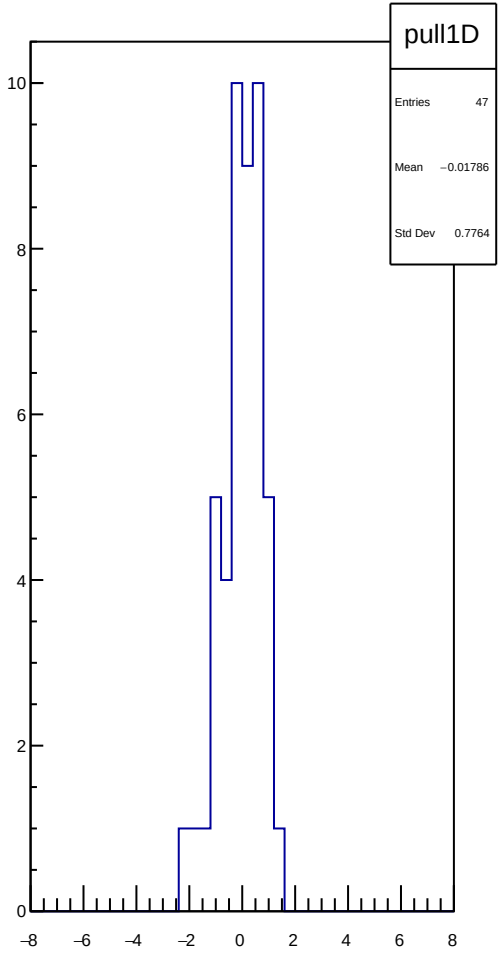

asym_sam7_correction_mean vs run
χ² / ndf 29.76 / 46
p0 1948 ± 2362
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −36.58
Std Dev 64.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.0309
Std Dev 0.7951
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

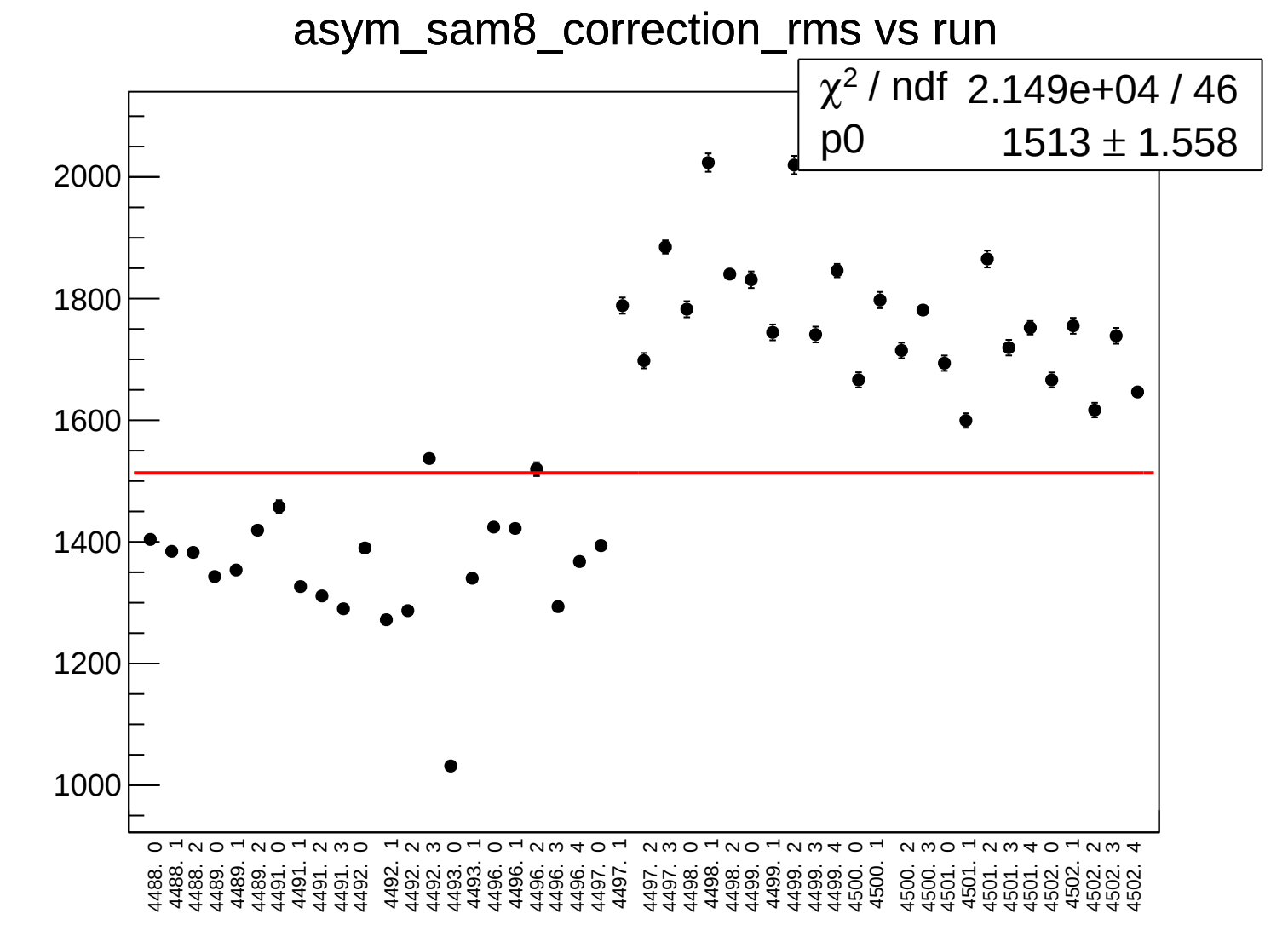

asym_sam7_correction_rms vs run
χ² / ndf 2.921e+04 / 46
p0 1616 ± 1.67
2400
2200
2000
1800
1600
1400
1200
1000
800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

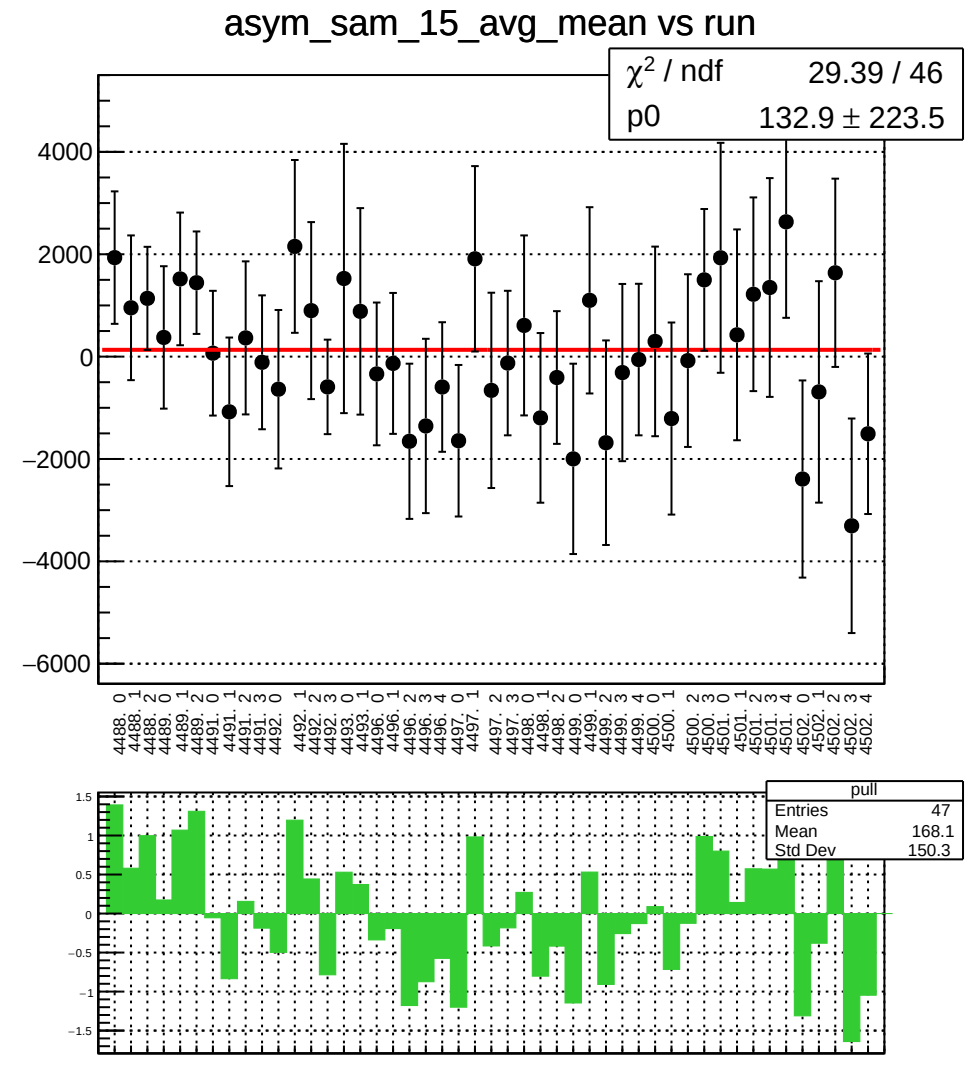

reg_asym_sam8_mean vs run
χ² / ndf 53.68 / 46
p0 −98.7 ± 703.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 287.2
Std Dev 249.7
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean −0.007478
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

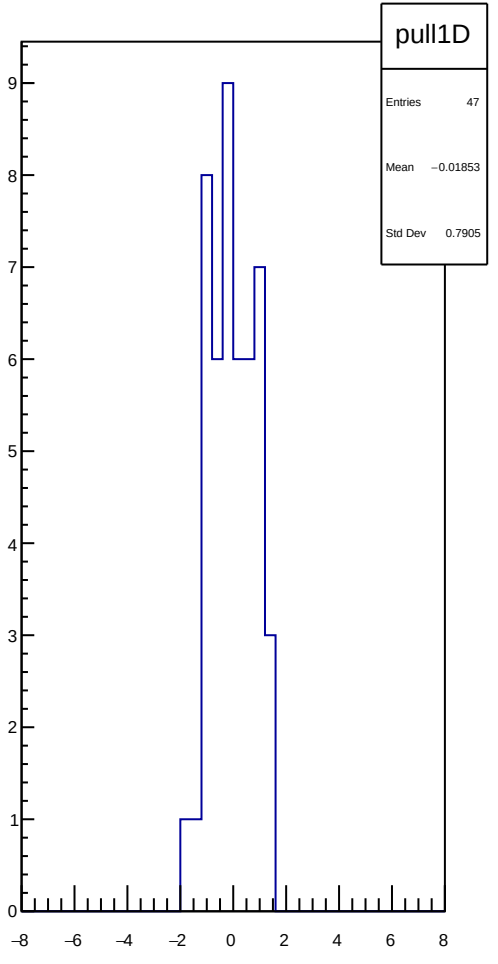

reg_asym_sam8_rms vs run
χ² / ndf 2561 / 46
p0 487.9 ± 0.4973
650
600
550
500
450
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

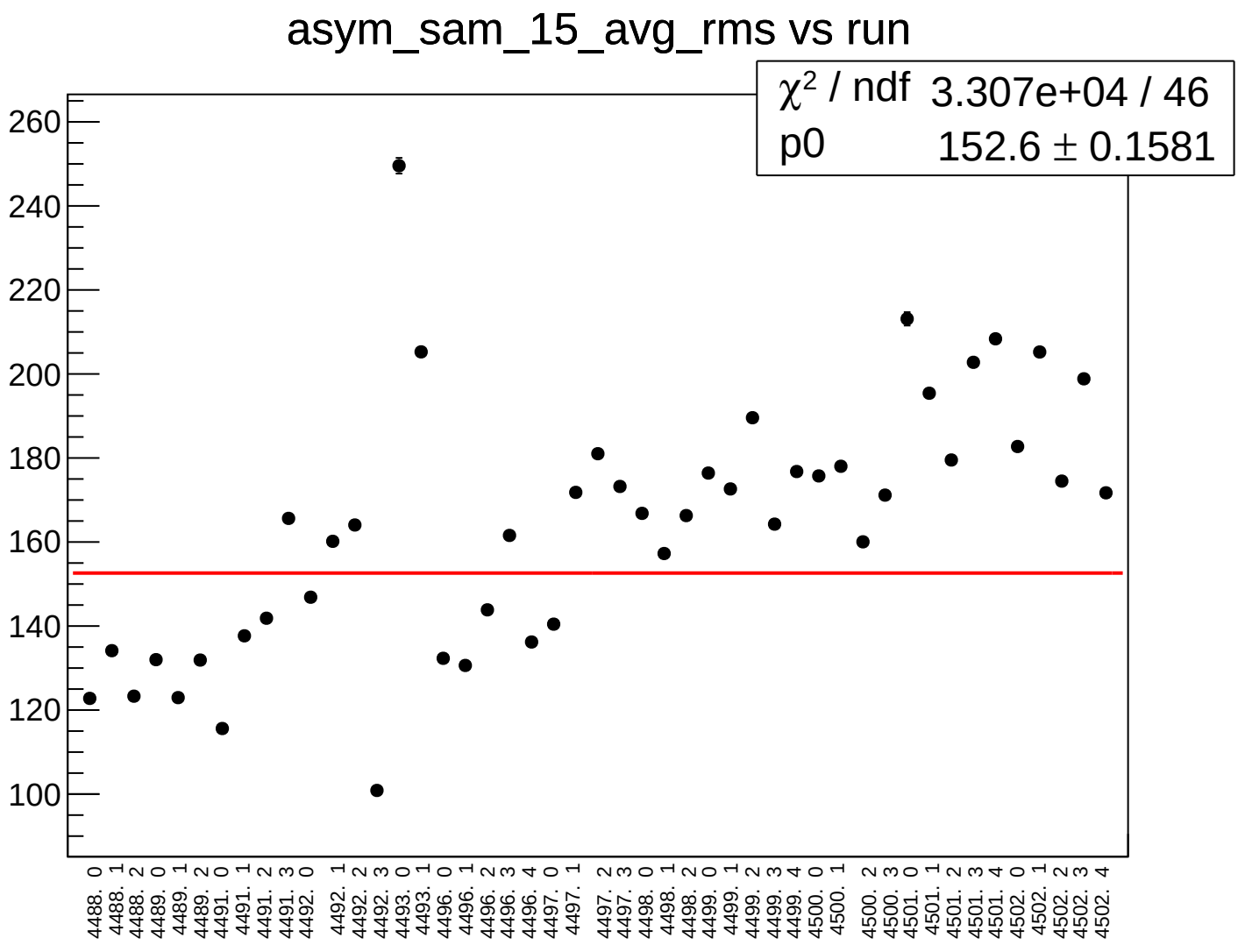

asym_sam8_correction_mean vs run
χ² / ndf 28.35 / 46
p0 755.4 ± 2203
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 0.9728
Std Dev 30.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2

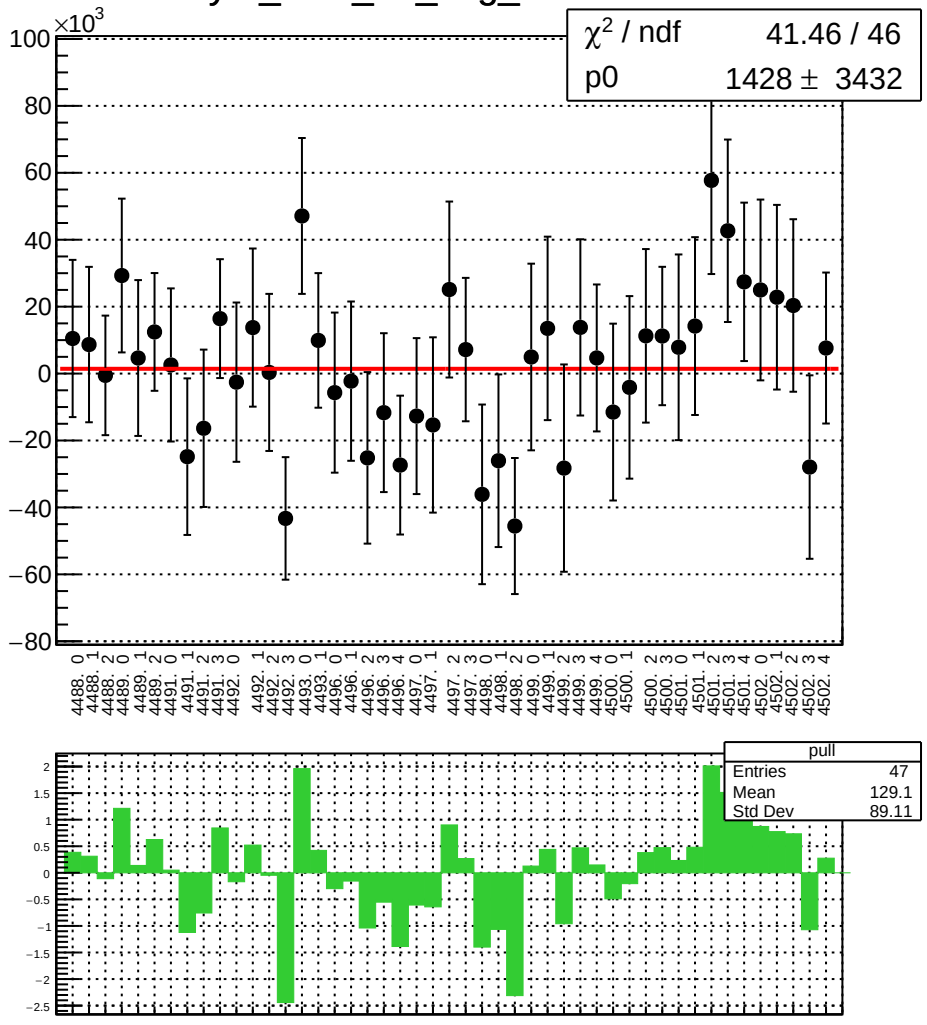

pull1D
Entries 47
Mean −0.01786
Std Dev 0.7764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

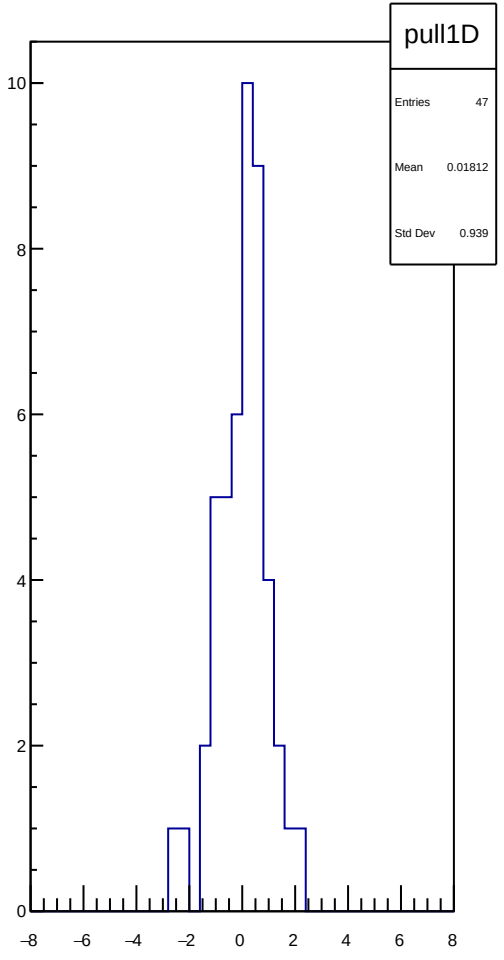

asym_sam8_correction_rms vs run
χ² / ndf 2.149e+04 / 46
p0 1513 ± 1.558
2000
1800
1600
1400
1200
1000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

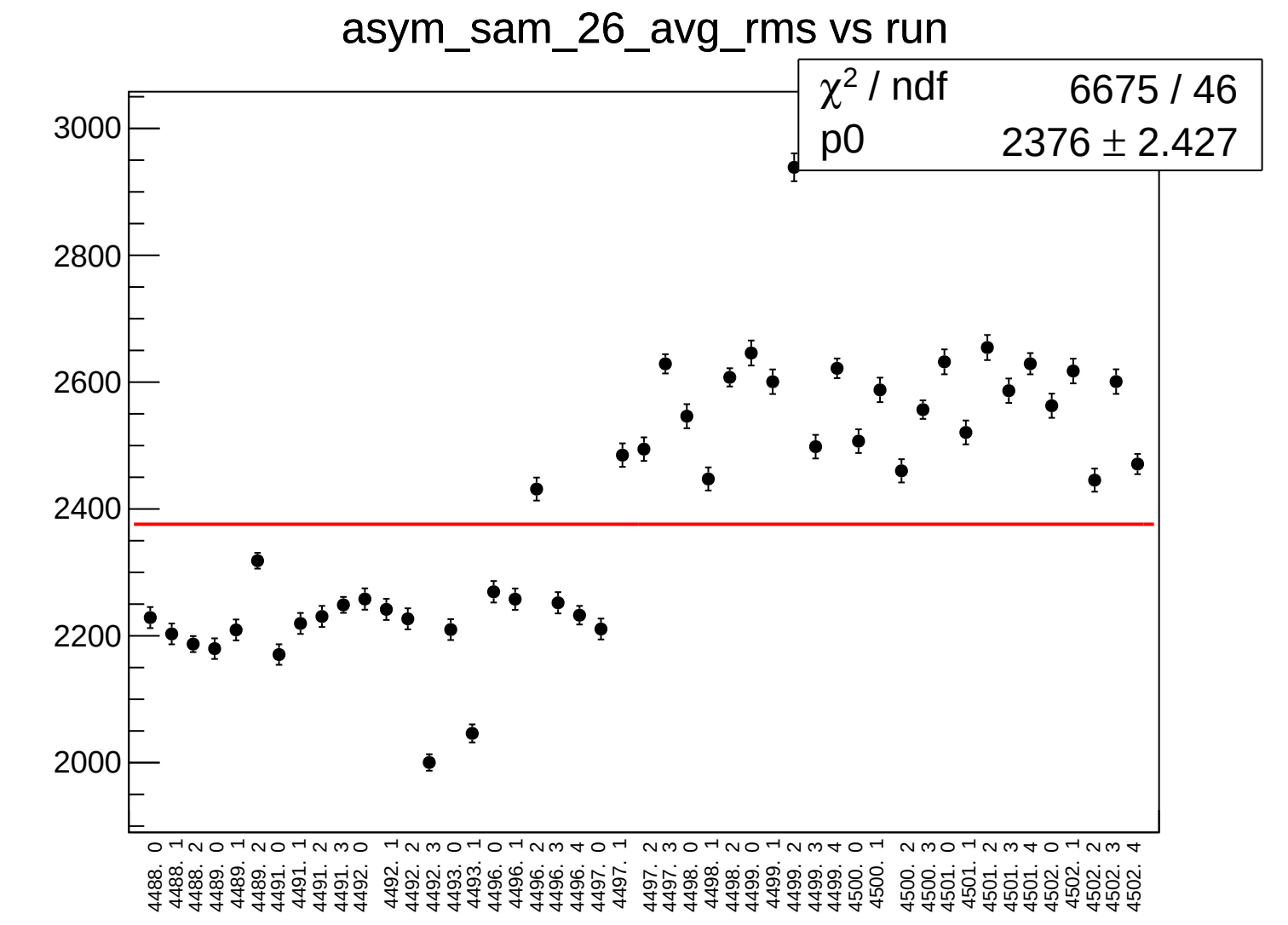

asym_sam_15_avg_mean vs run
χ² / ndf 29.39 / 46
p0 132.9 ± 223.5
4000
2000
0
−2000
−4000
−6000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 168.1
Std Dev 150.3
1.5
1
0.5
0
−0.5
−1
−1.5

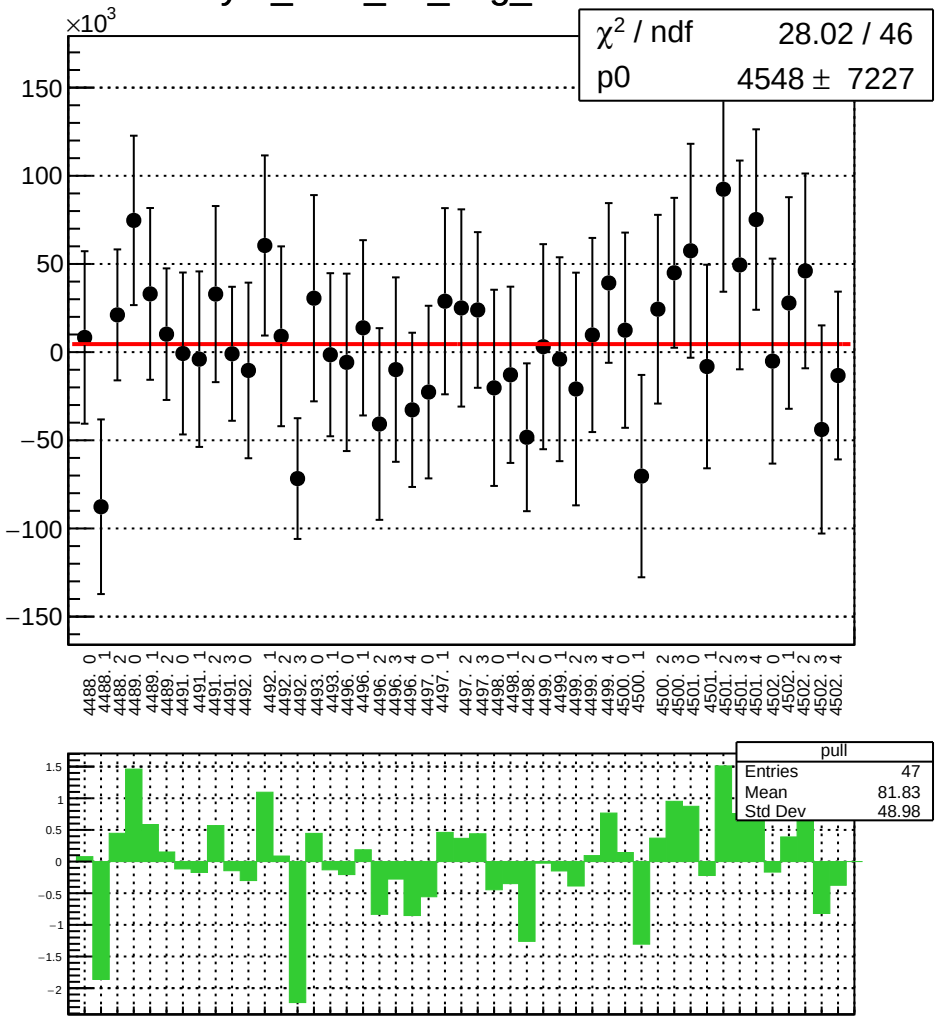

pull1D
Entries 47
Mean −0.01853
Std Dev 0.7905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

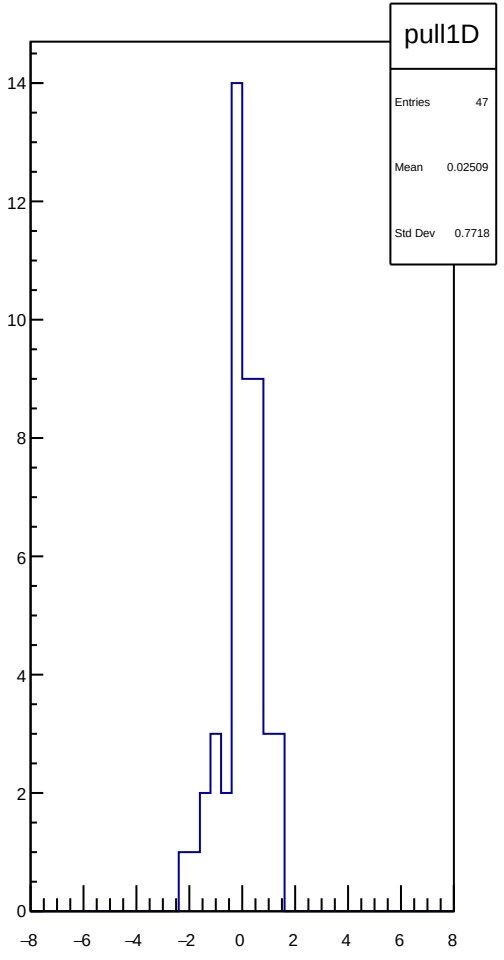

asym_sam_15_avg_rms vs run
χ² / ndf 3.307e+04 / 46
p0 152.6 ± 0.1581
260
240
220
200
180
160
140
120
100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

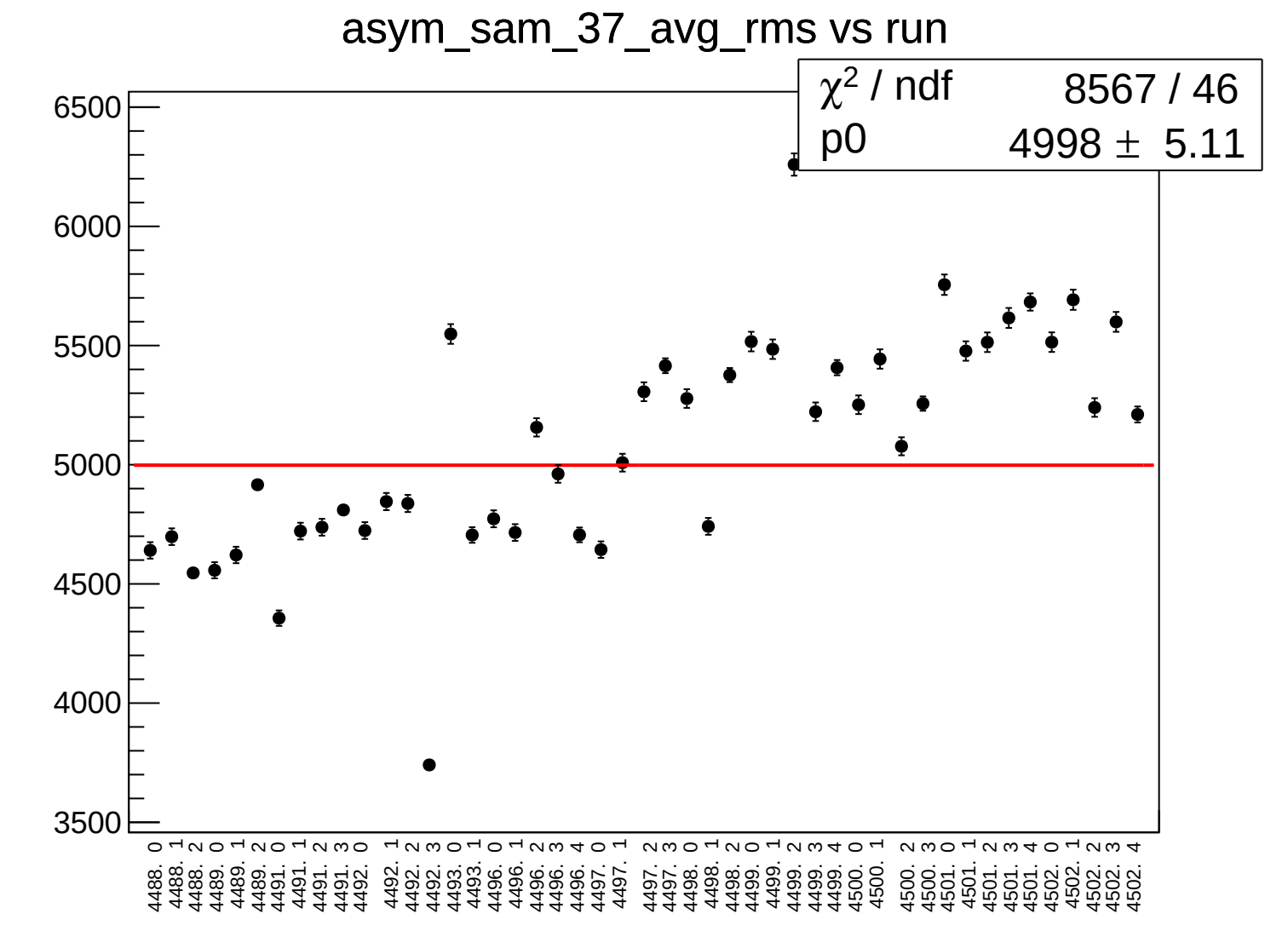

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 41.46 / 46
p0 1428 ± 3432
pull
Entries 47
Mean 129.1
Std Dev 89.11

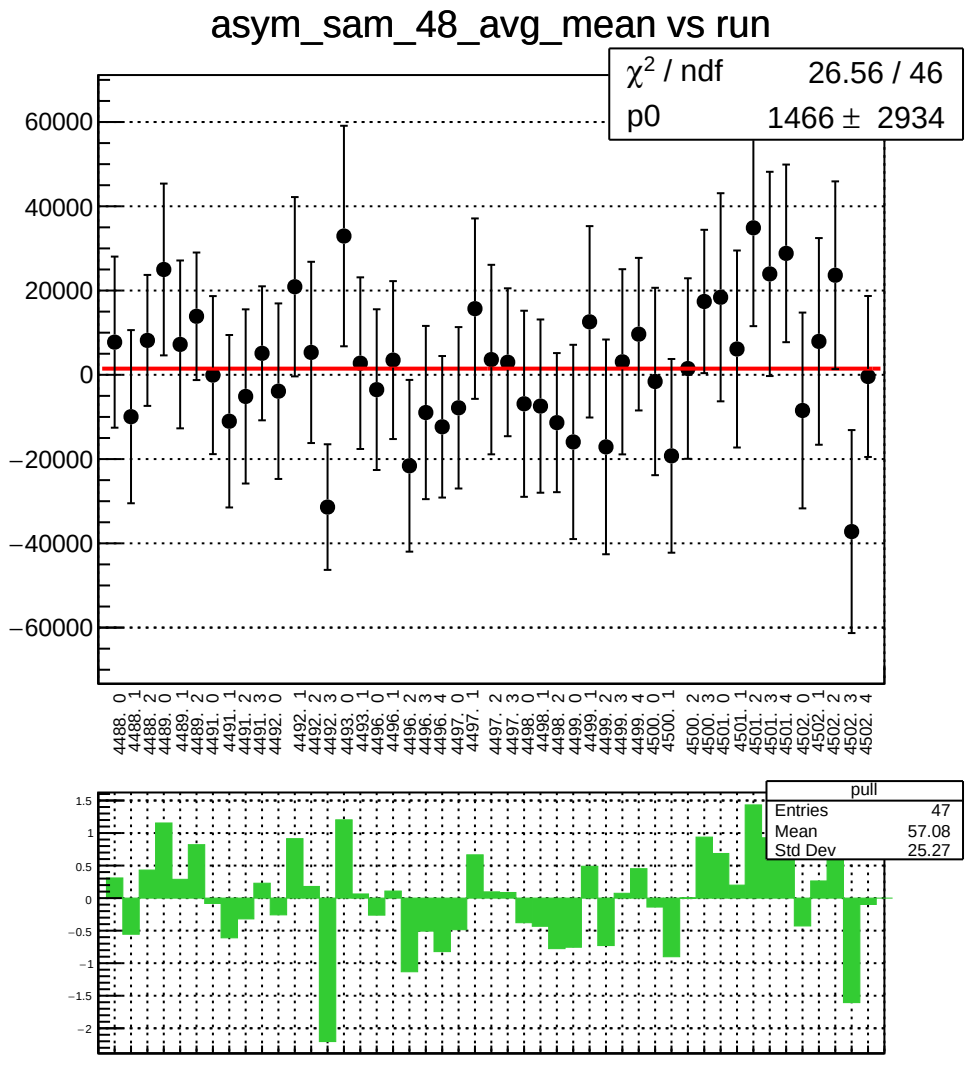

pull1D
Entries 47
Mean 0.01812
Std Dev 0.939

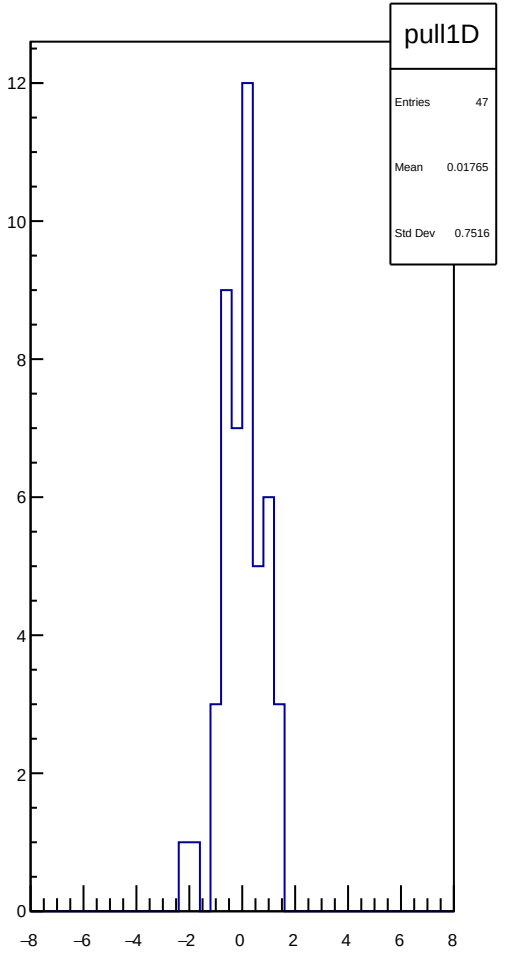

asym_sam_26_avg_rms vs run
χ² / ndf 6675 / 46
p0 2376 ± 2.427
3000
2800
2600
2400
2200
2000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

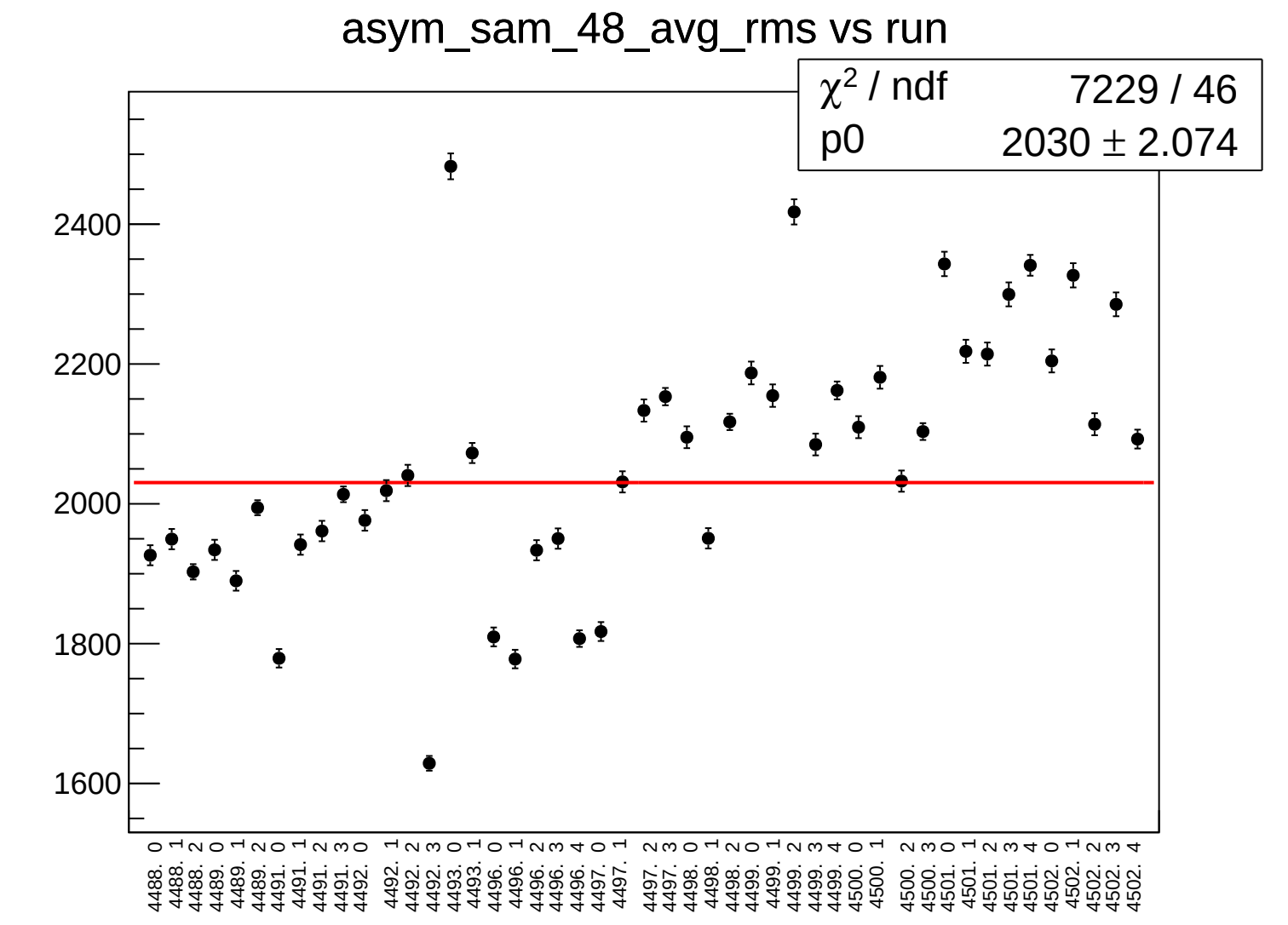

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 28.02 / 46
p0 4548 ± 7227
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 81.83
Std Dev 48.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2

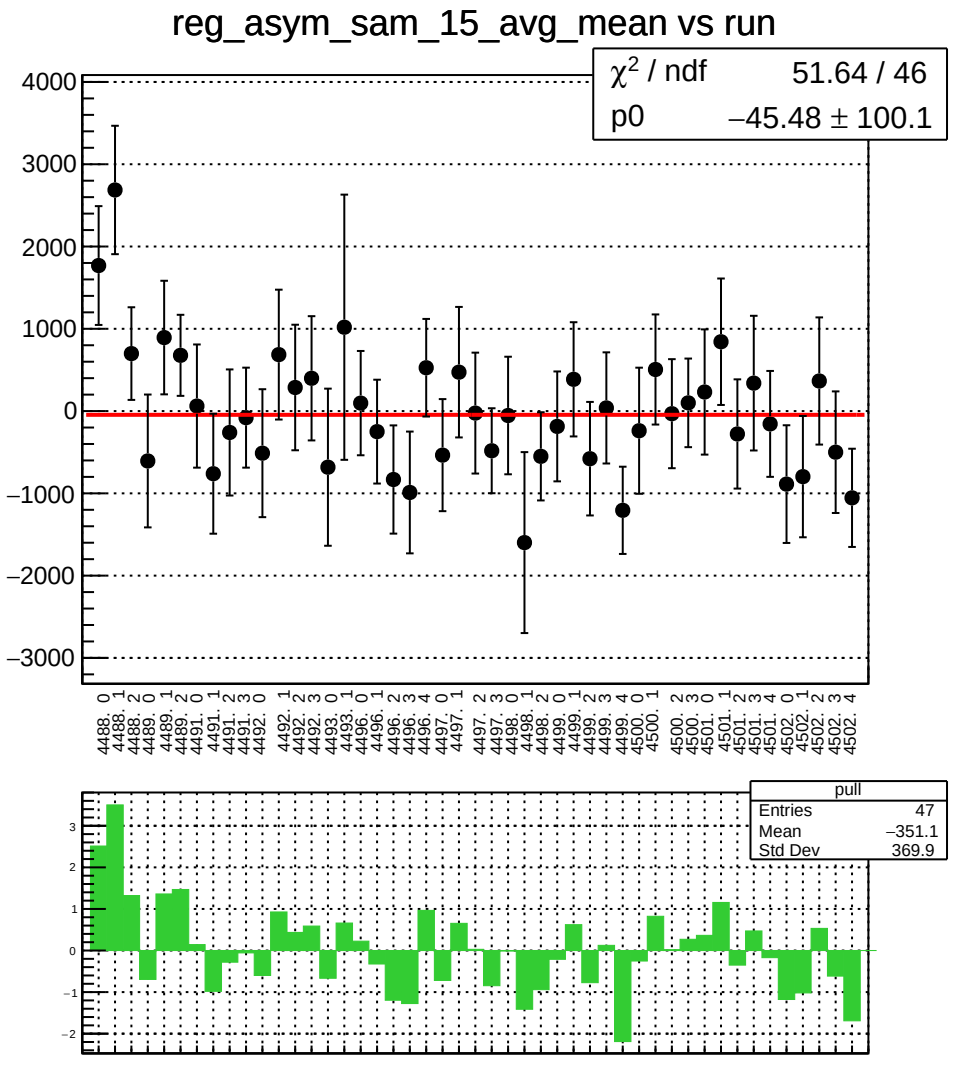

pull1D
Entries 47
Mean 0.02509
Std Dev 0.7718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

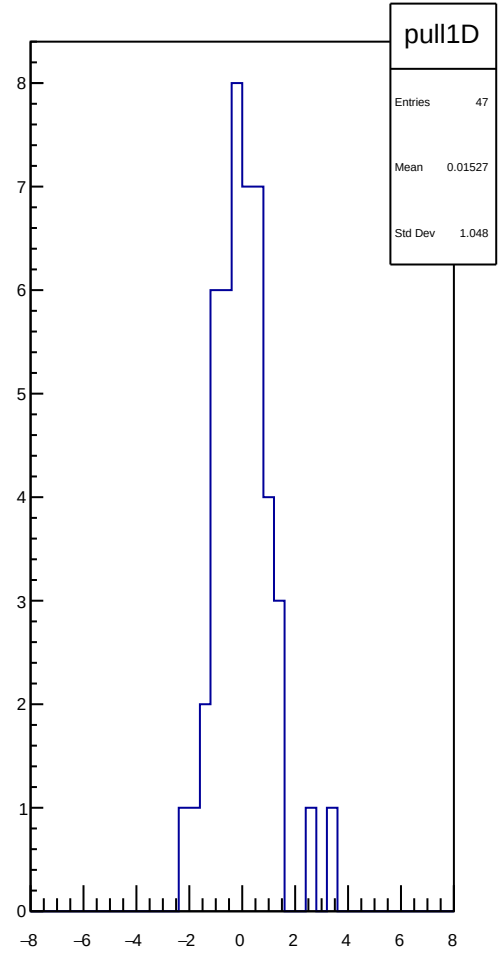

asym_sam_37_avg_rms vs run
χ² / ndf 8567 / 46
p0 4998 ± 5.11
6500
6000
5500
5000
4500
4000
3500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

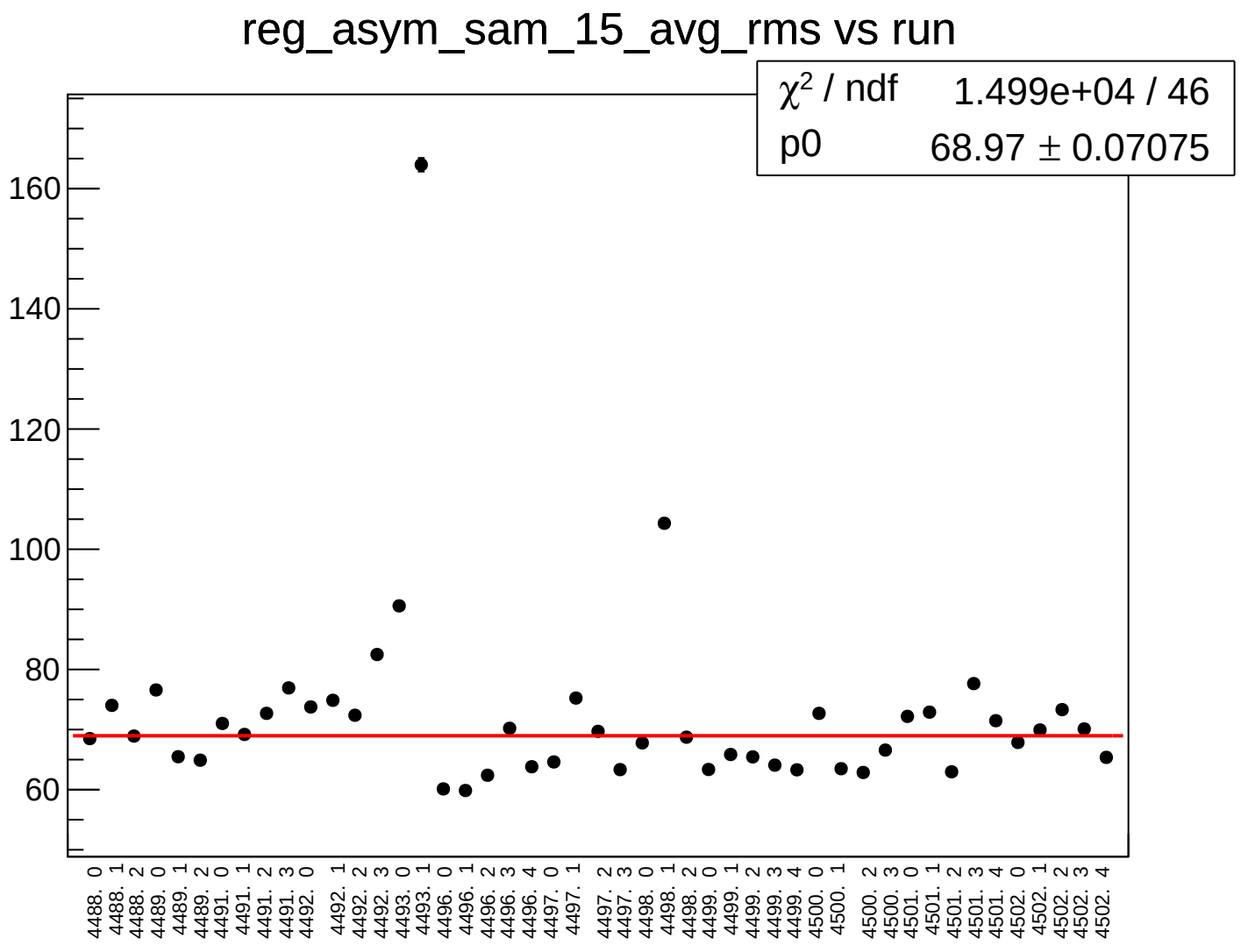

asym_sam_48_avg_mean vs run
χ² / ndf 26.56 / 46
p0 1466 ± 2934
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 57.08
Std Dev 25.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

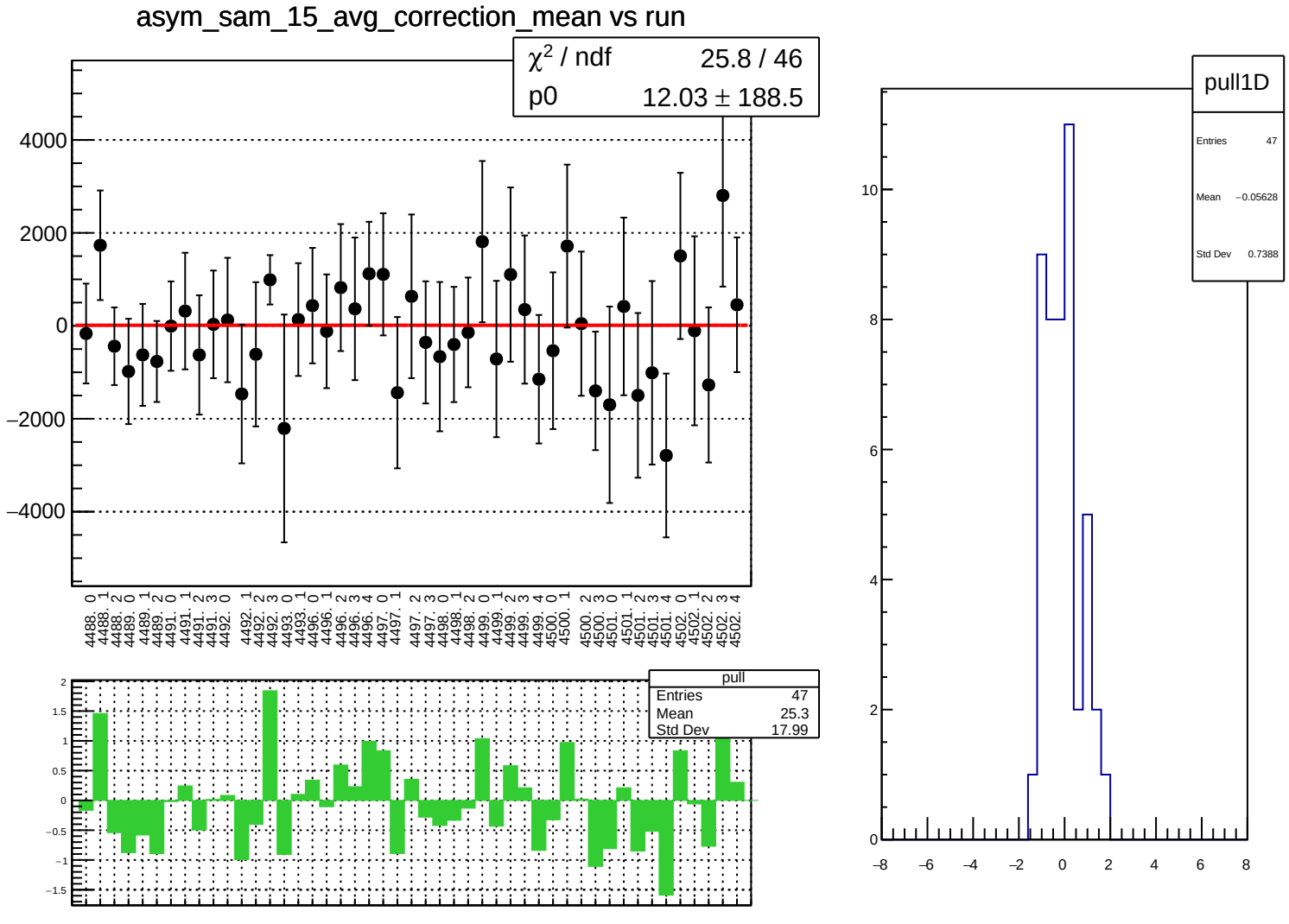

pull1D
Entries 47
Mean 0.01765
Std Dev 0.7516
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

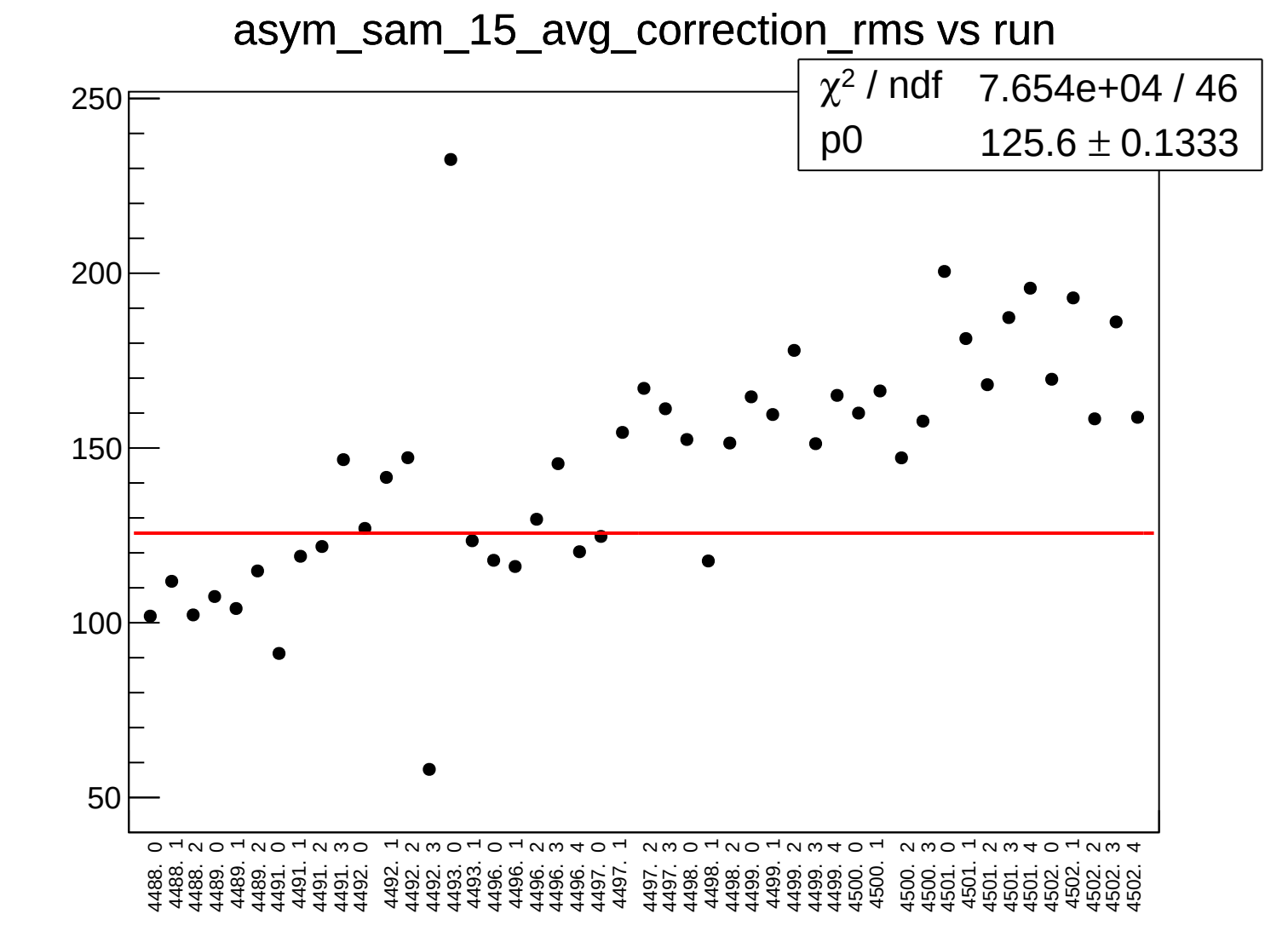

asym_sam_48_avg_rms vs run
χ² / ndf 7229 / 46
p0 2030 ± 2.074
2400
2200
2000
1800
1600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

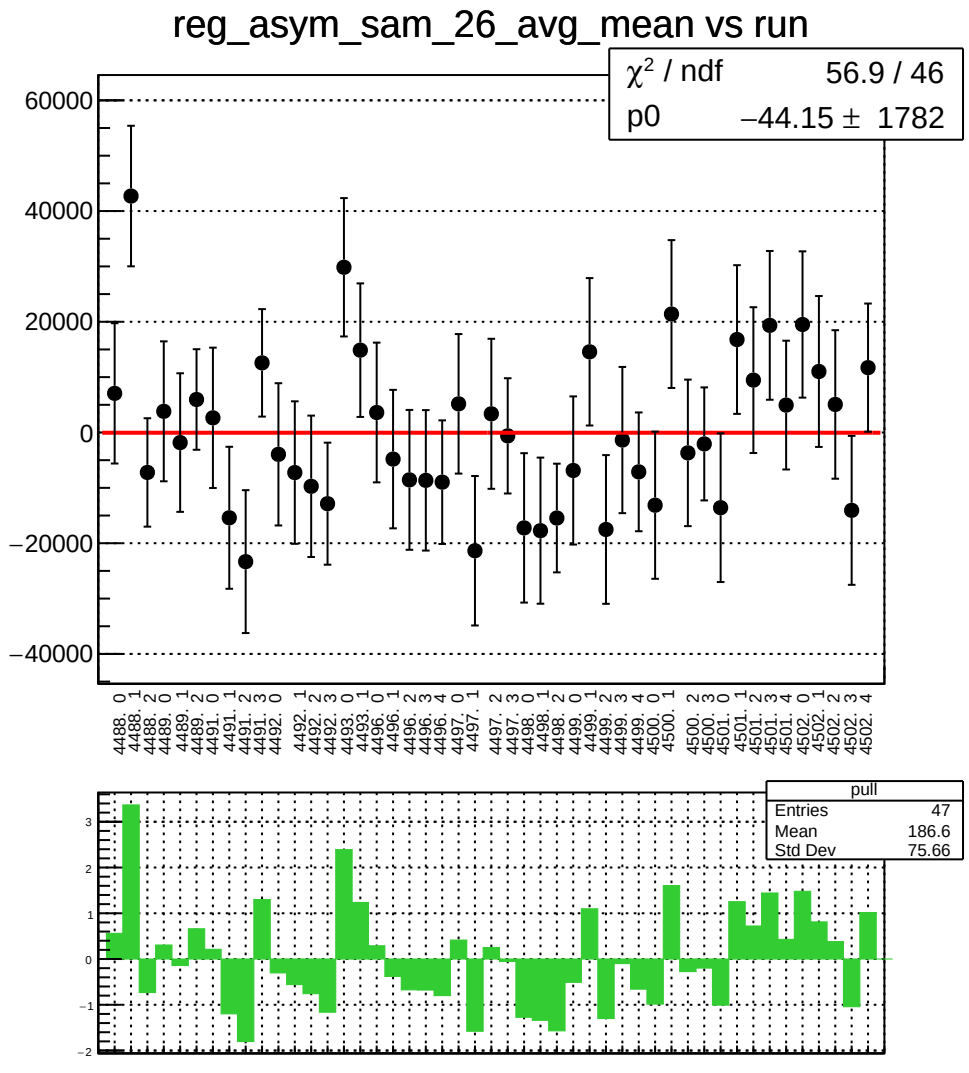

reg_asym_sam_15_avg_mean vs run
χ² / ndf 51.64 / 46
p0 −45.48 ± 100.1
4000
3000
2000
1000
0
−1000
−2000
−3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −351.1
Std Dev 369.9
3
2
1
0
−1
−2

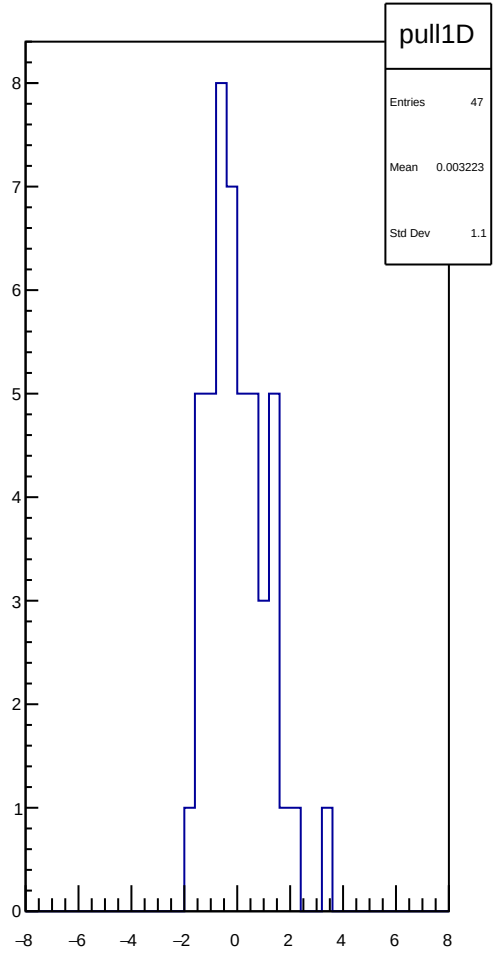

pull1D
Entries 47
Mean 0.01527
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

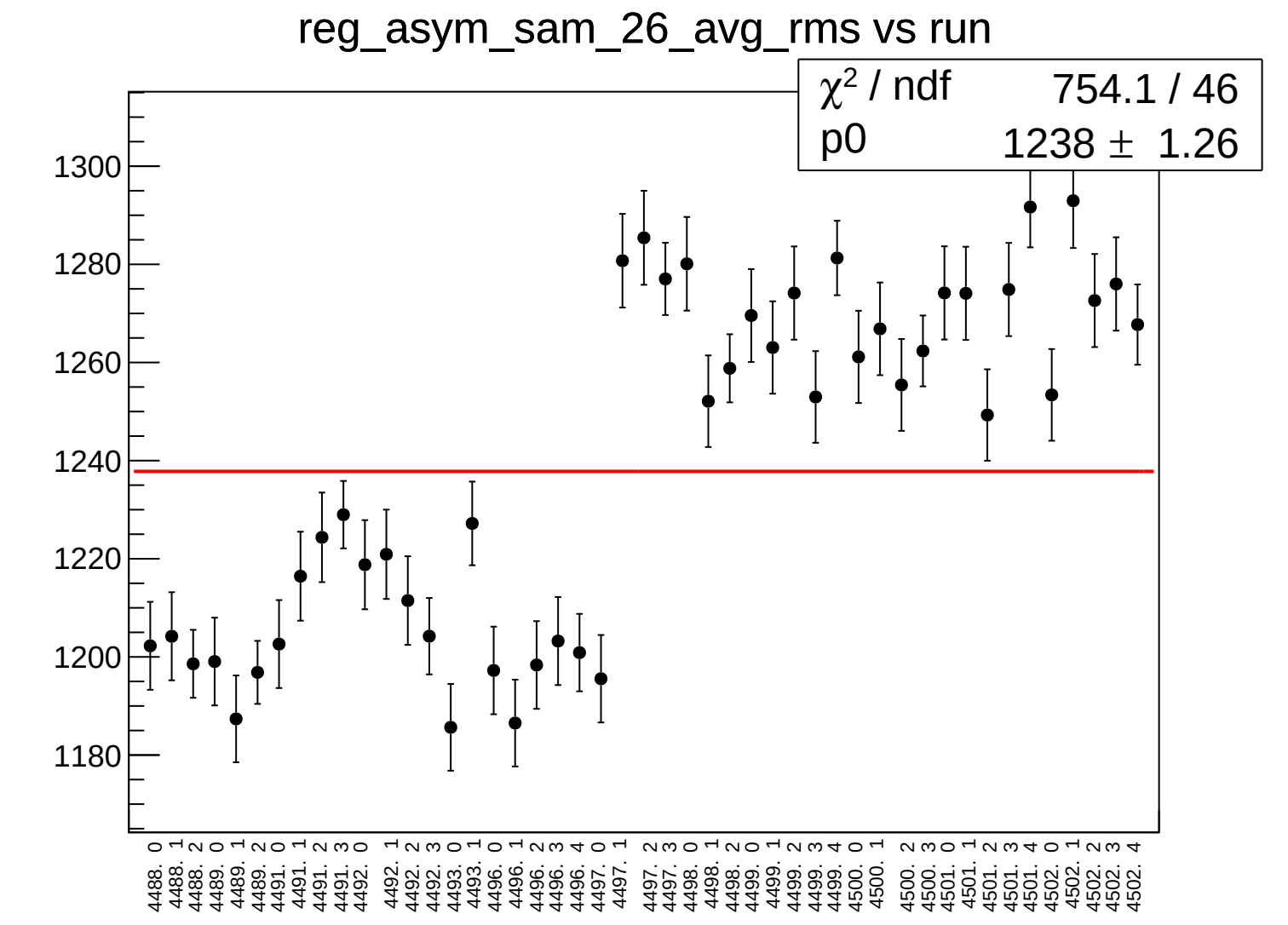

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.499e+04 / 46
p0 68.97 ± 0.07075
160
140
120
100
80
60
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

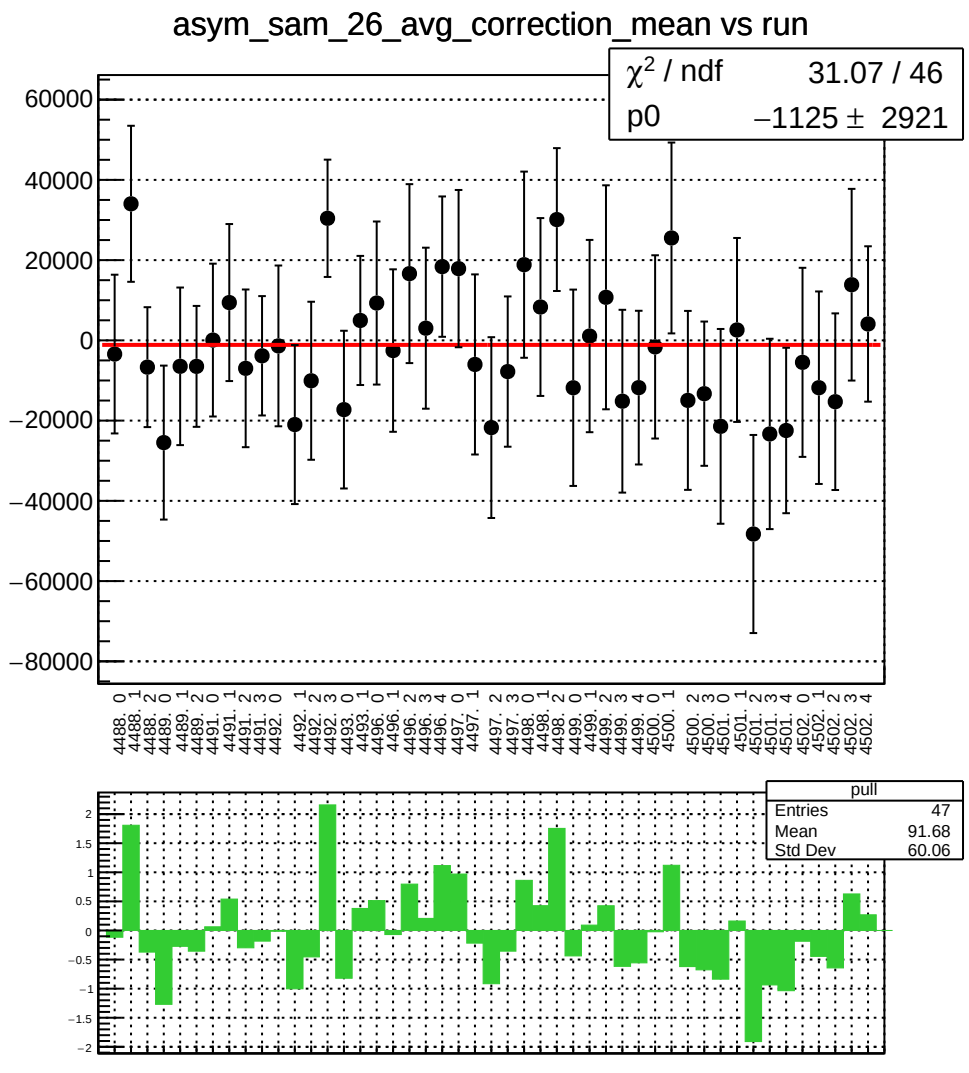

asym_sam_15_avg_correction_mean vs run
χ² / ndf 25.8 / 46
p0 12.03 ± 188.5
4000
2000
0
−2000
−4000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 25.3
Std Dev 17.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.05628
Std Dev 0.7388
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

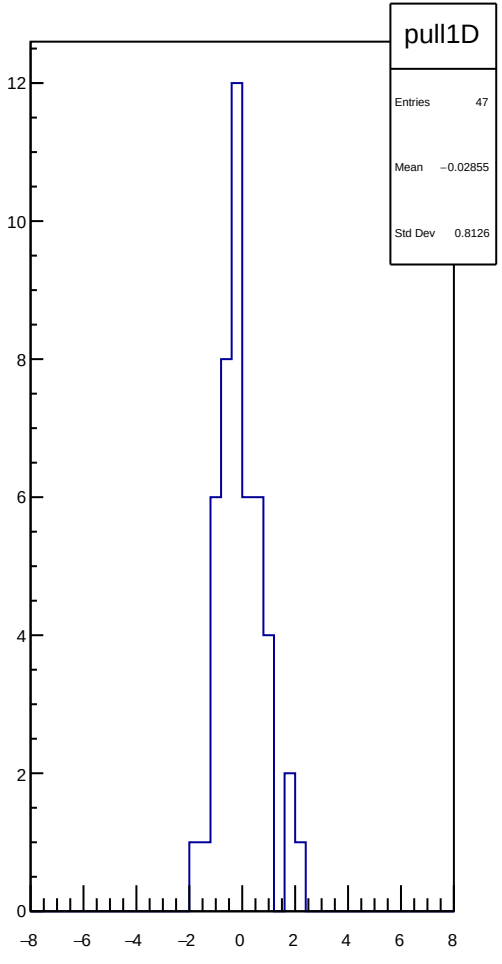

asym_sam_15_avg_correction_rms vs run
χ² / ndf 7.654e+04 / 46
p0 125.6 ± 0.1333
250
200
150
100
50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

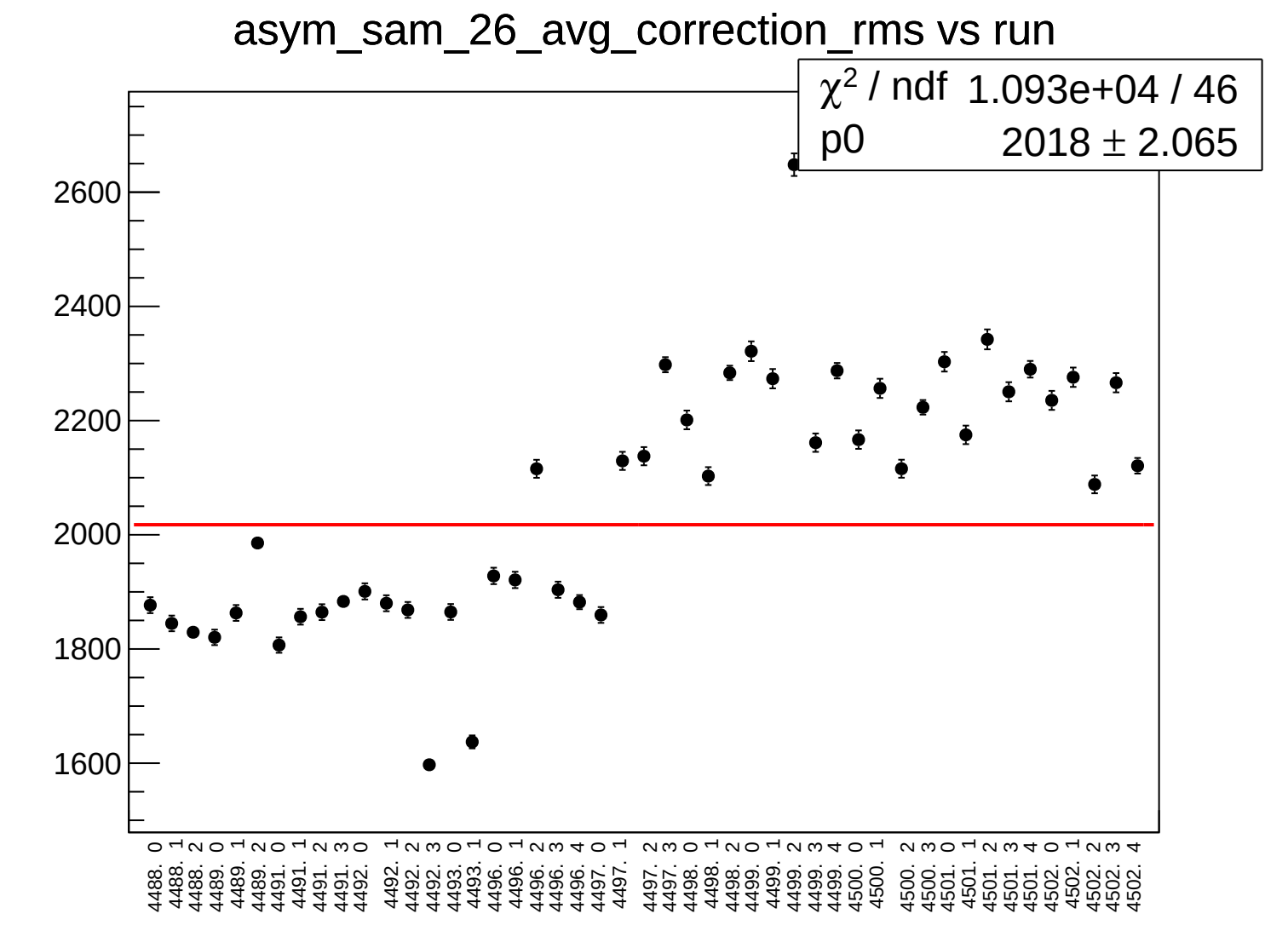

reg_asym_sam_26_avg_mean vs run
χ² / ndf 56.9 / 46
p0 −44.15 ± 1782
60000
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 186.6
Std Dev 75.66
3
2
1
0
−1
−2

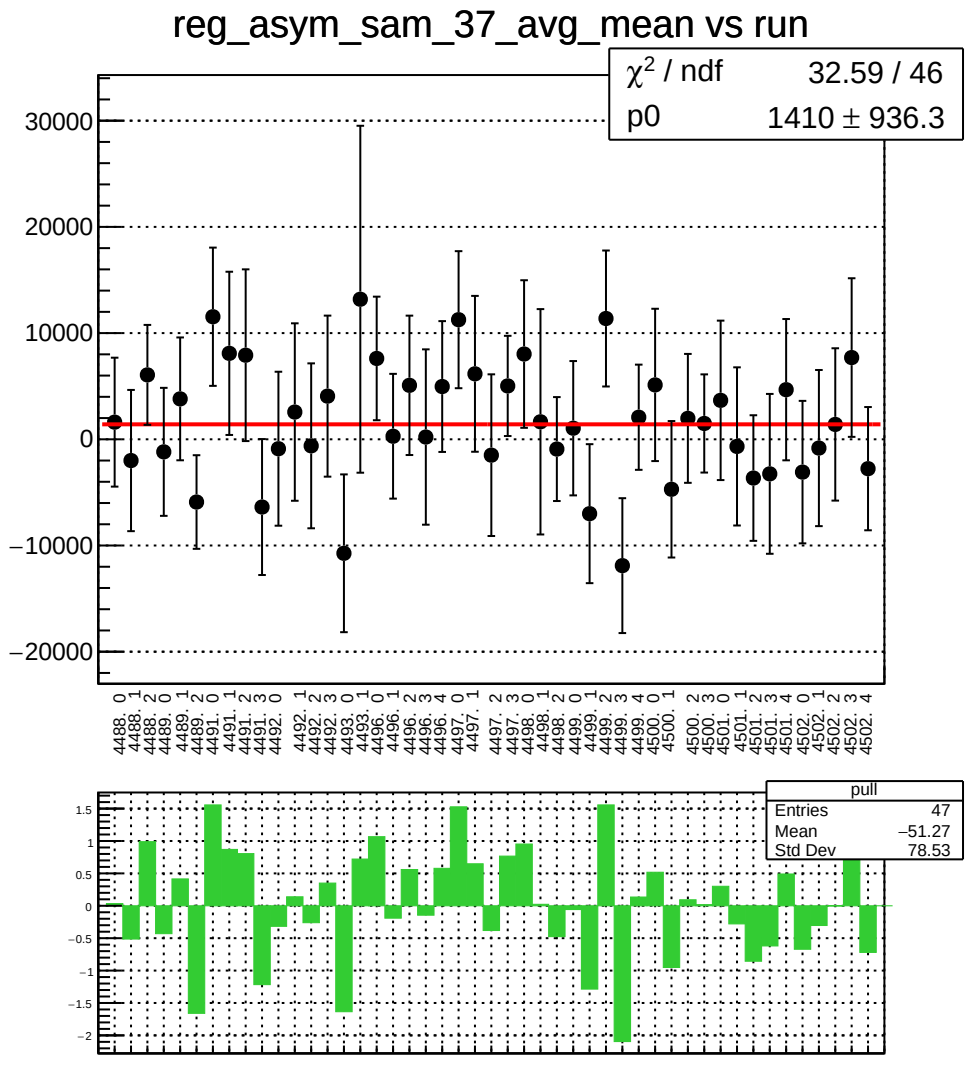

pull1D
Entries 47
Mean 0.003223
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

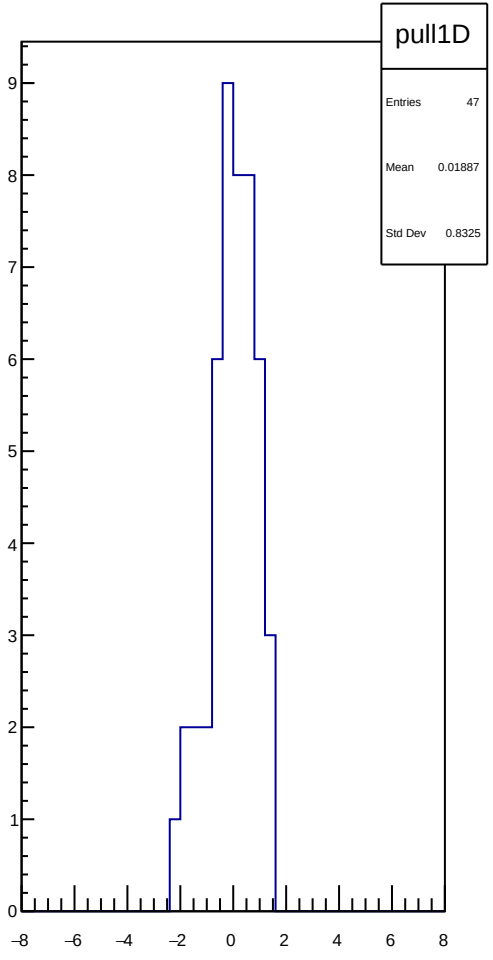

reg_asym_sam_26_avg_rms vs run
χ² / ndf 754.1 / 46
p0 1238 ± 1.26
1300
1280
1260
1240
1220
1200
1180
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

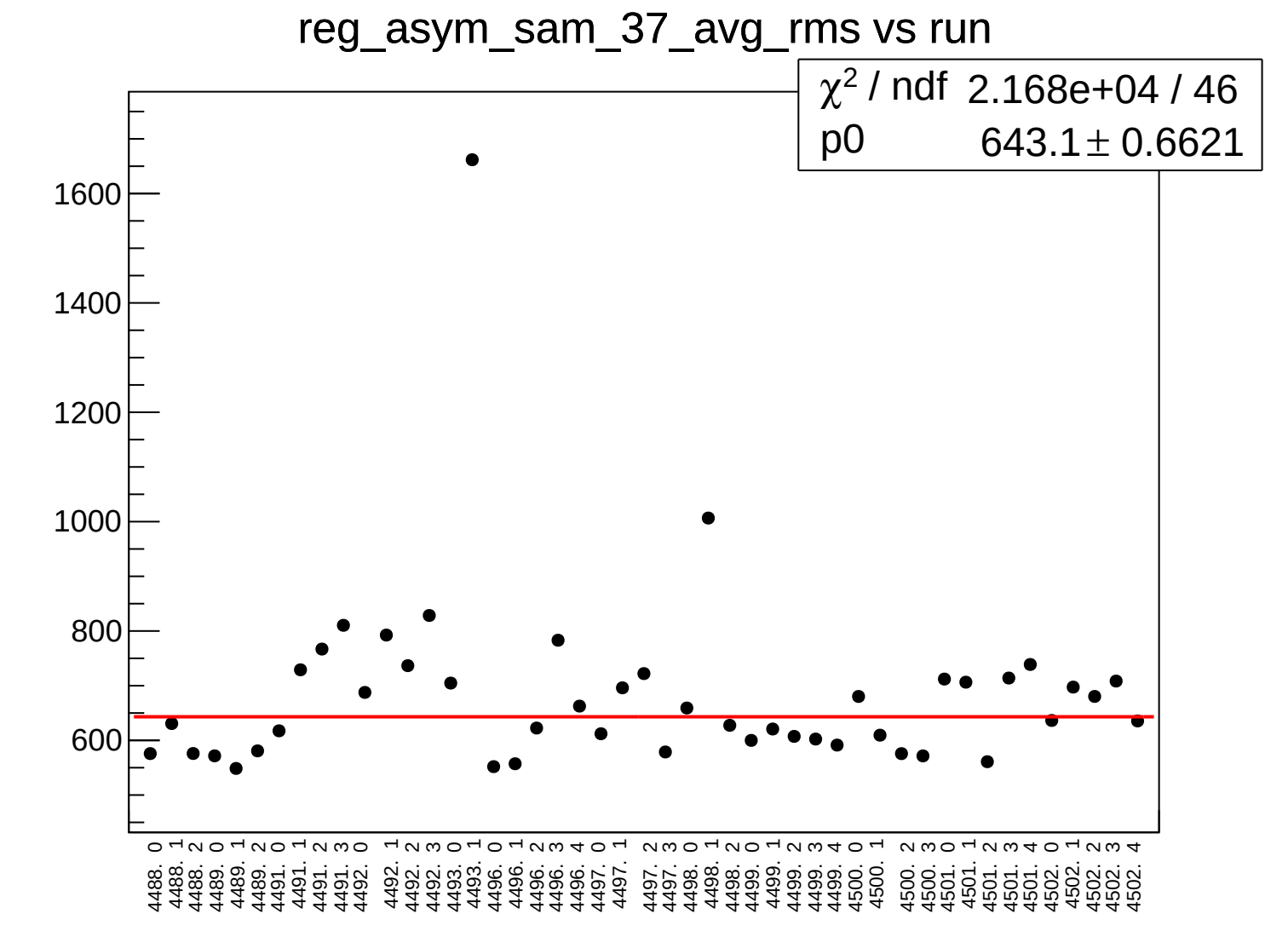

asym_sam_26_avg_correction_mean vs run
χ² / ndf 31.07 / 46
p0 −1125 ± 2921
60000
40000
20000
0
−20000
−40000
−60000
−80000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 91.68
Std Dev 60.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

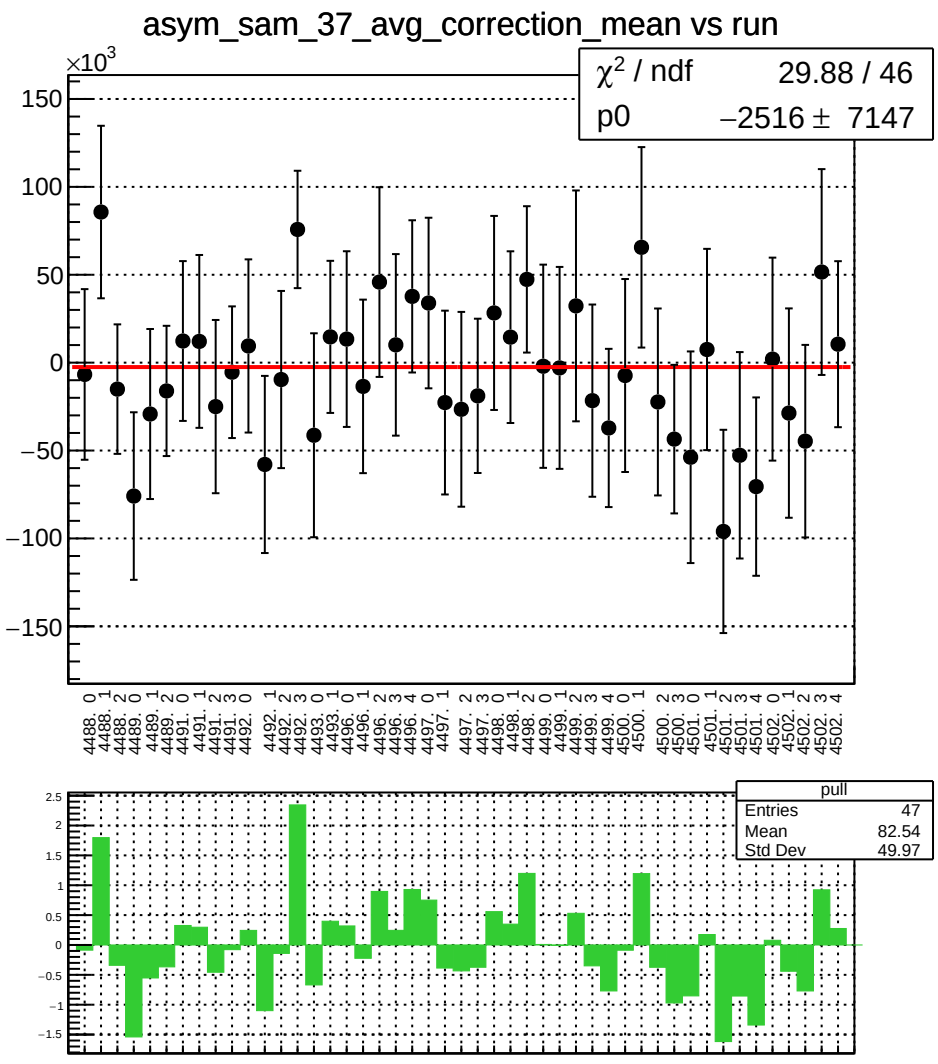

pull1D
Entries 47
Mean −0.02855
Std Dev 0.8126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

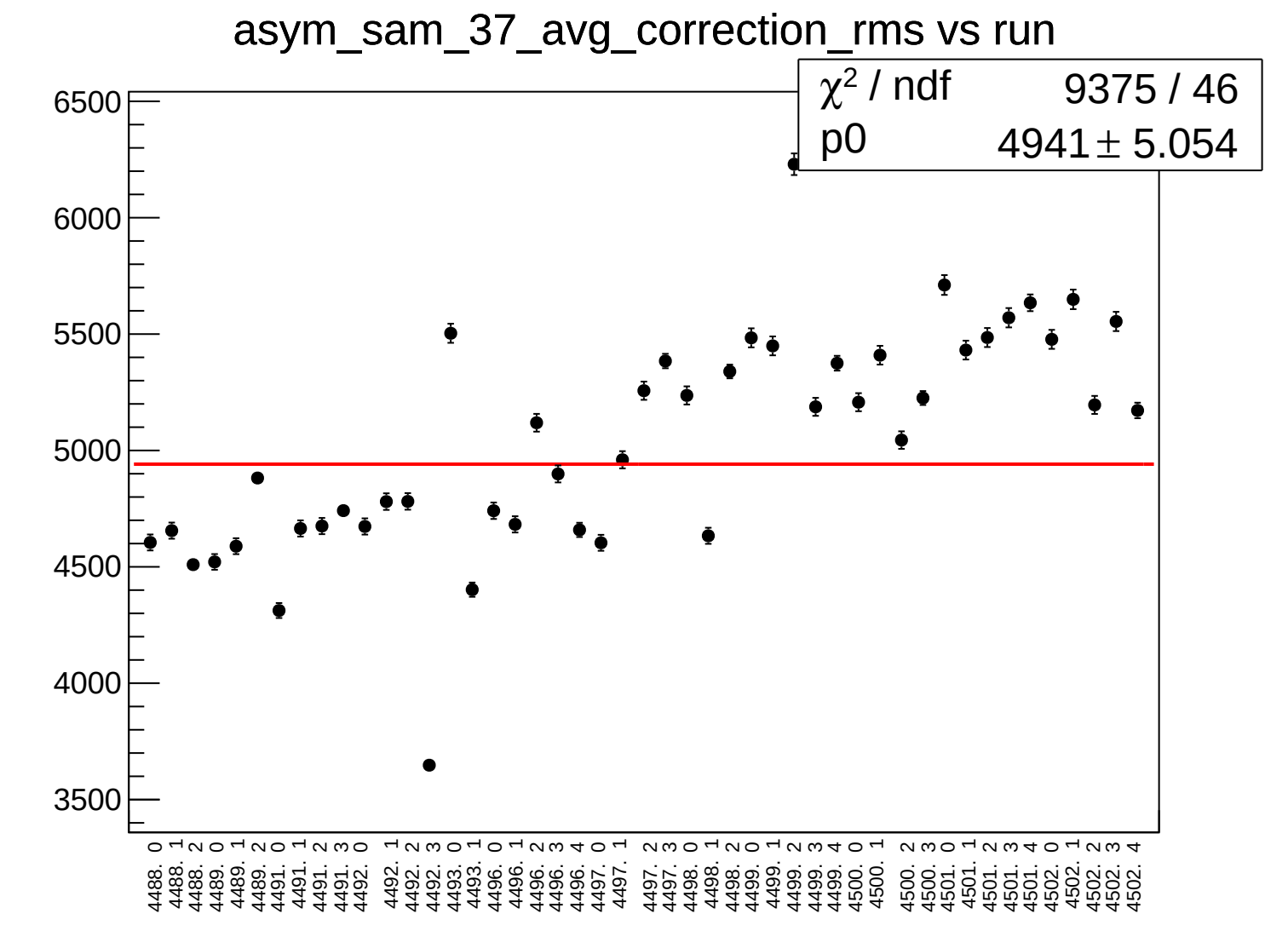

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.093e+04 / 46
p0 2018 ± 2.065
2600
2400
2200
2000
1800
1600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

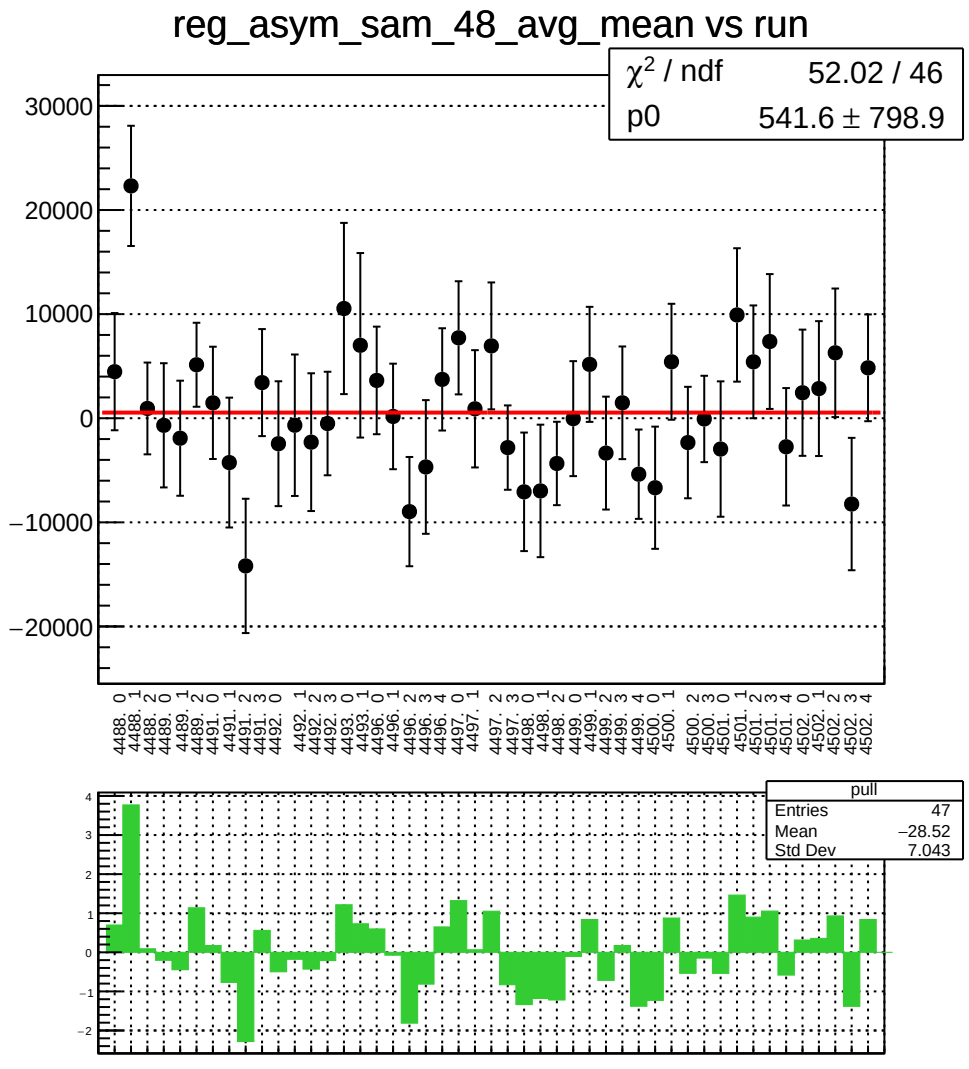

reg_asym_sam_37_avg_mean vs run
χ² / ndf 32.59 / 46
p0 1410 ± 936.3
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −51.27
Std Dev 78.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

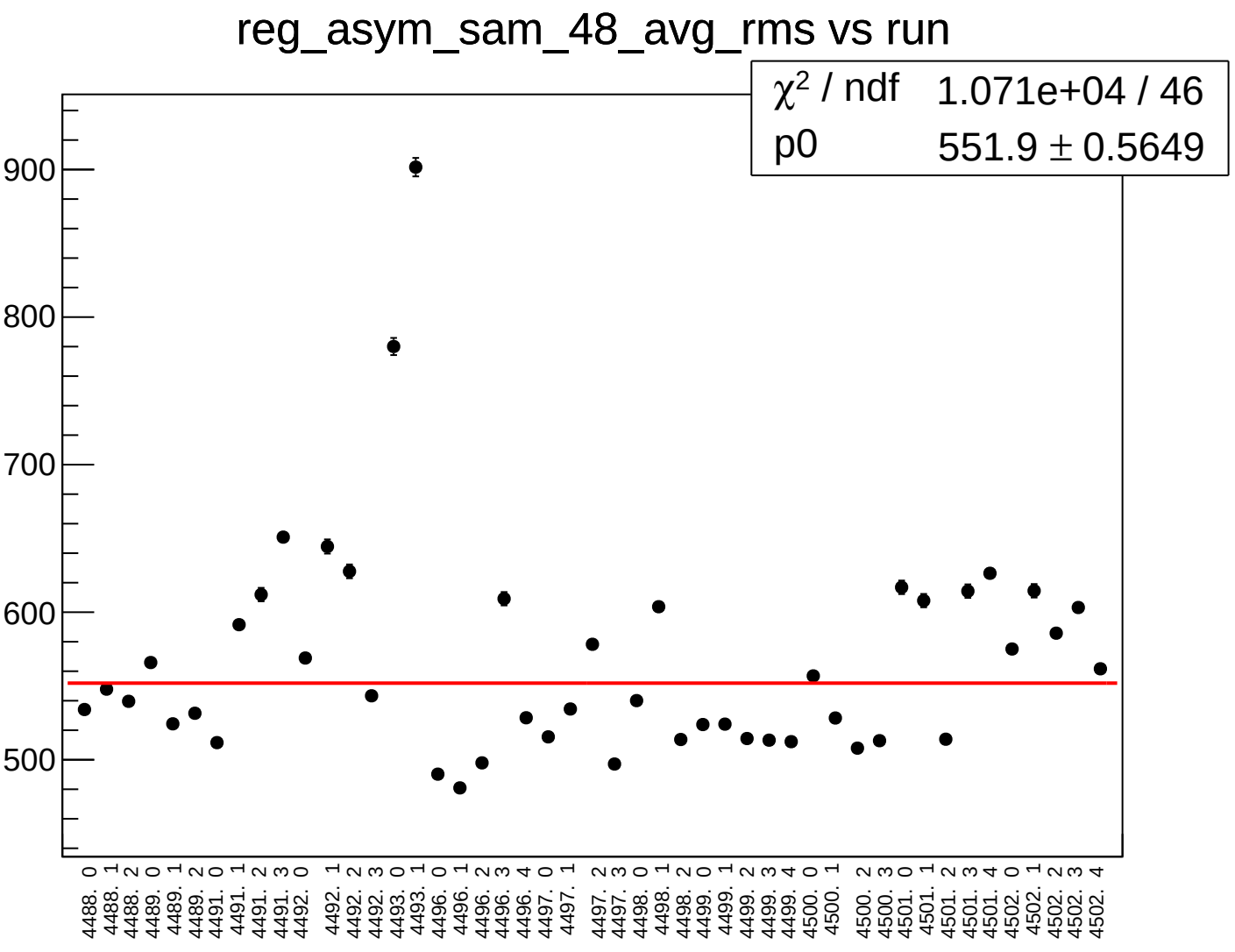

pull1D
Entries 47
Mean 0.01887
Std Dev 0.8325
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

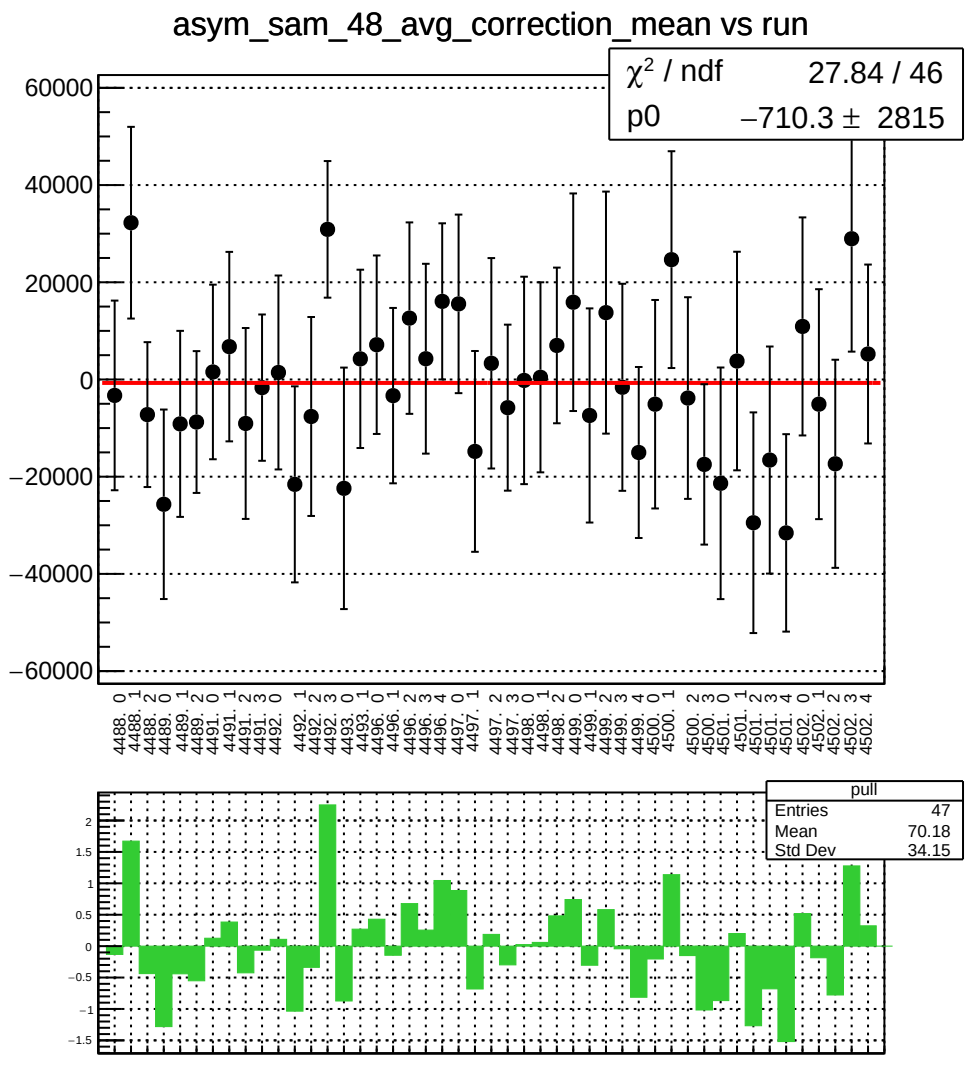

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.168e+04 / 46
p0 643.1 ± 0.6621
1600
1400
1200
1000
800
600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

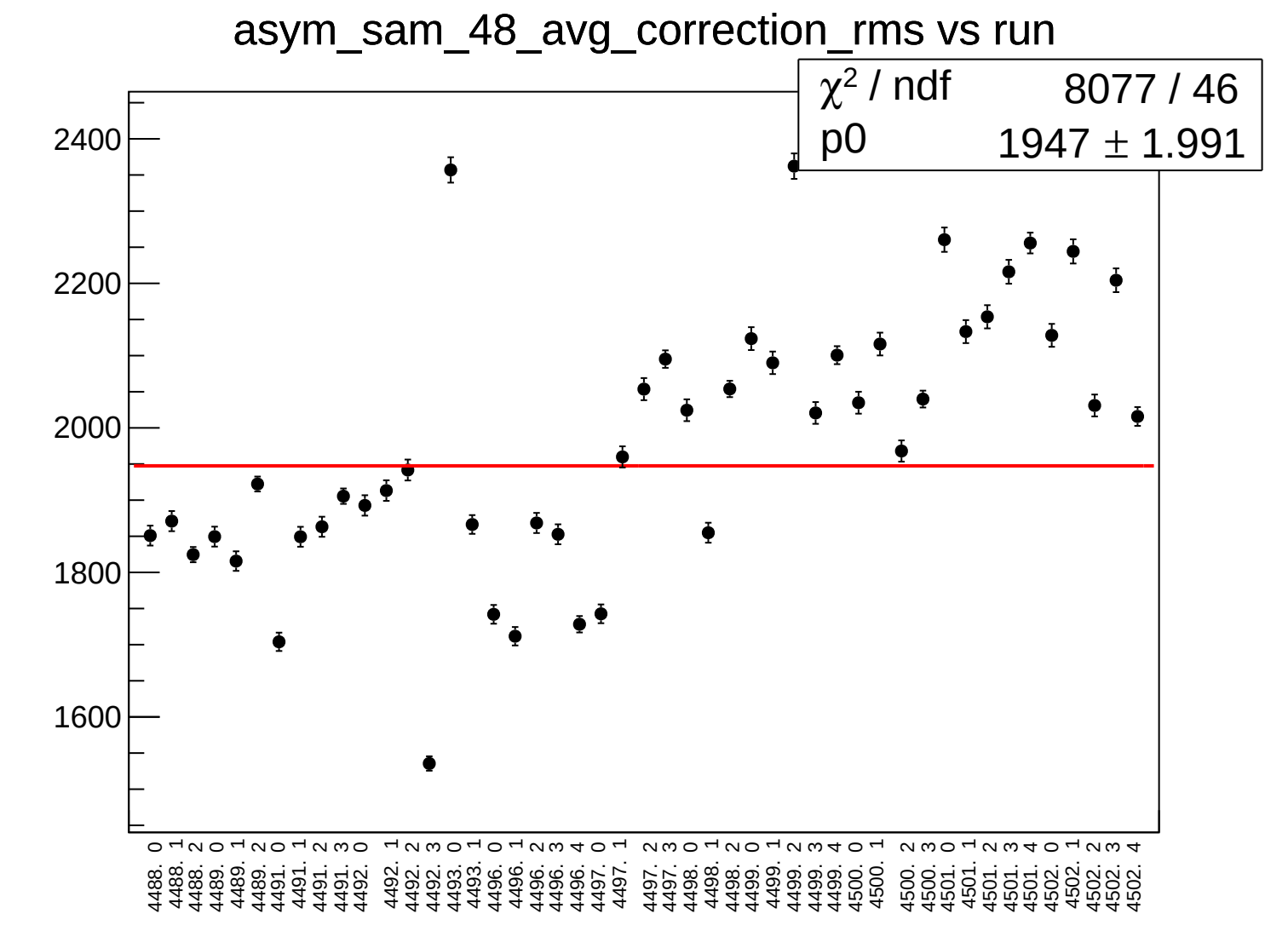

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 29.88 / 46
p0 −2516 ± 7147
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 82.54
Std Dev 49.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.0285
Std Dev 0.7968
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

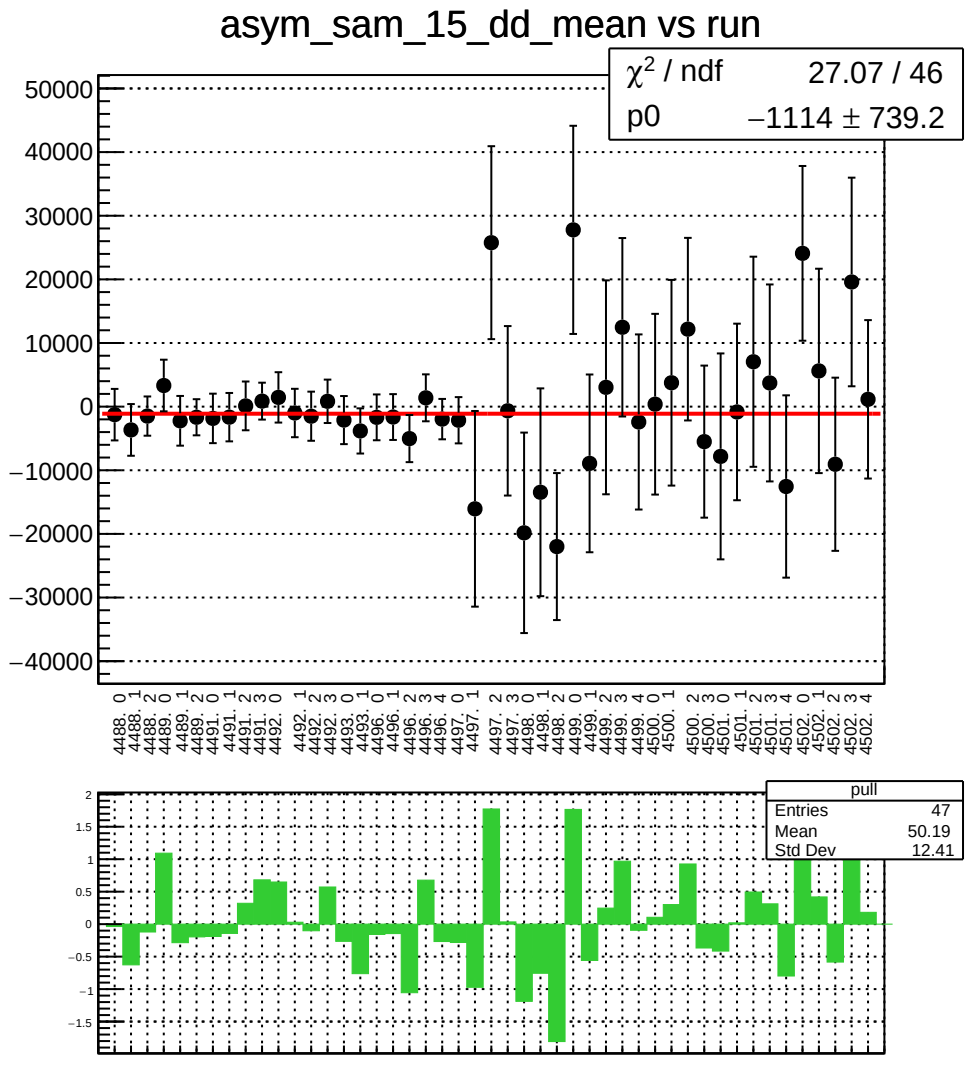

asym_sam_37_avg_correction_rms vs run
χ² / ndf 9375 / 46
p0 4941 ± 5.054
6500
6000
5500
5000
4500
4000
3500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

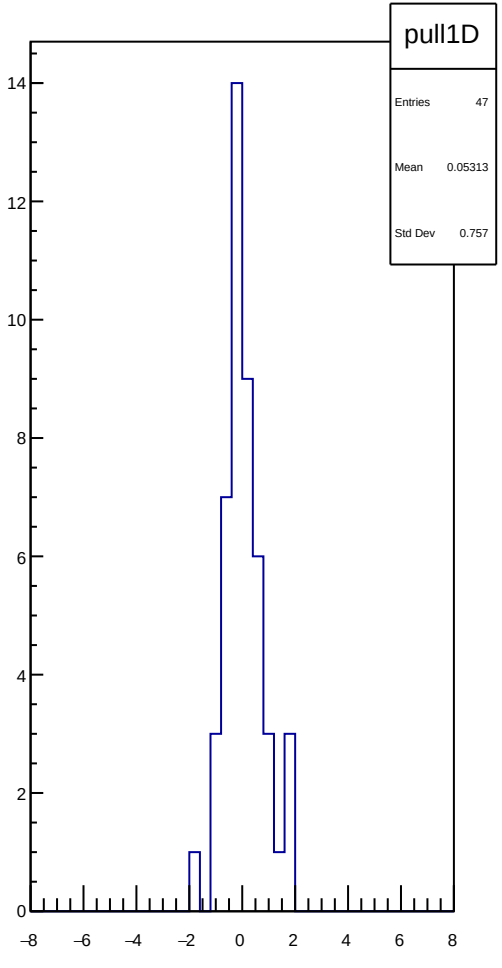

reg_asym_sam_48_avg_mean vs run
χ² / ndf 52.02 / 46
p0 541.6 ± 798.9
30000
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −28.52
Std Dev 7.043
4
3
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.0193
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

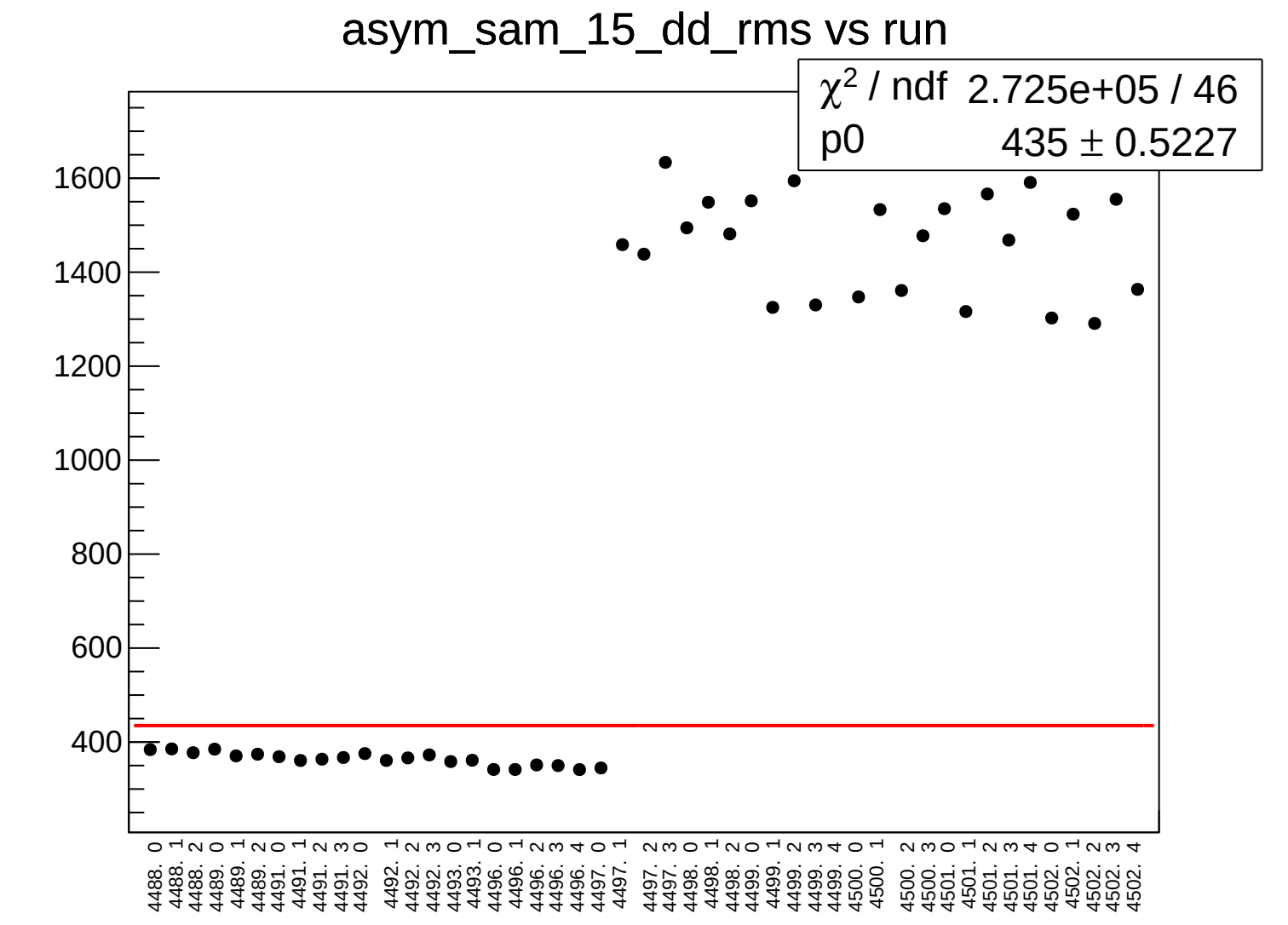

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.071e+04 / 46
p0 551.9 ± 0.5649
900
800
700
600
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

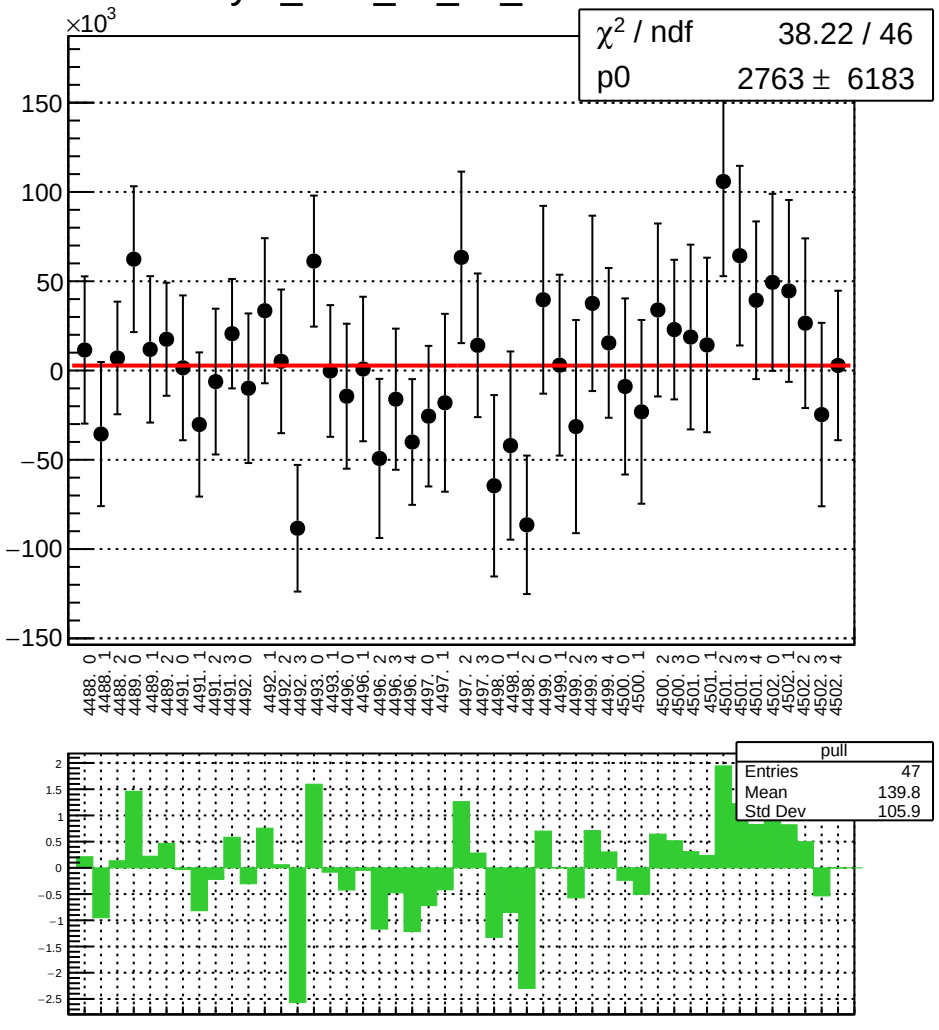

asym_sam_48_avg_correction_mean vs run
χ² / ndf 27.84 / 46
p0 −710.3 ± 2815
60000
40000
20000
0
−20000
−40000
−60000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 70.18
Std Dev 34.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.01905
Std Dev 0.7694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

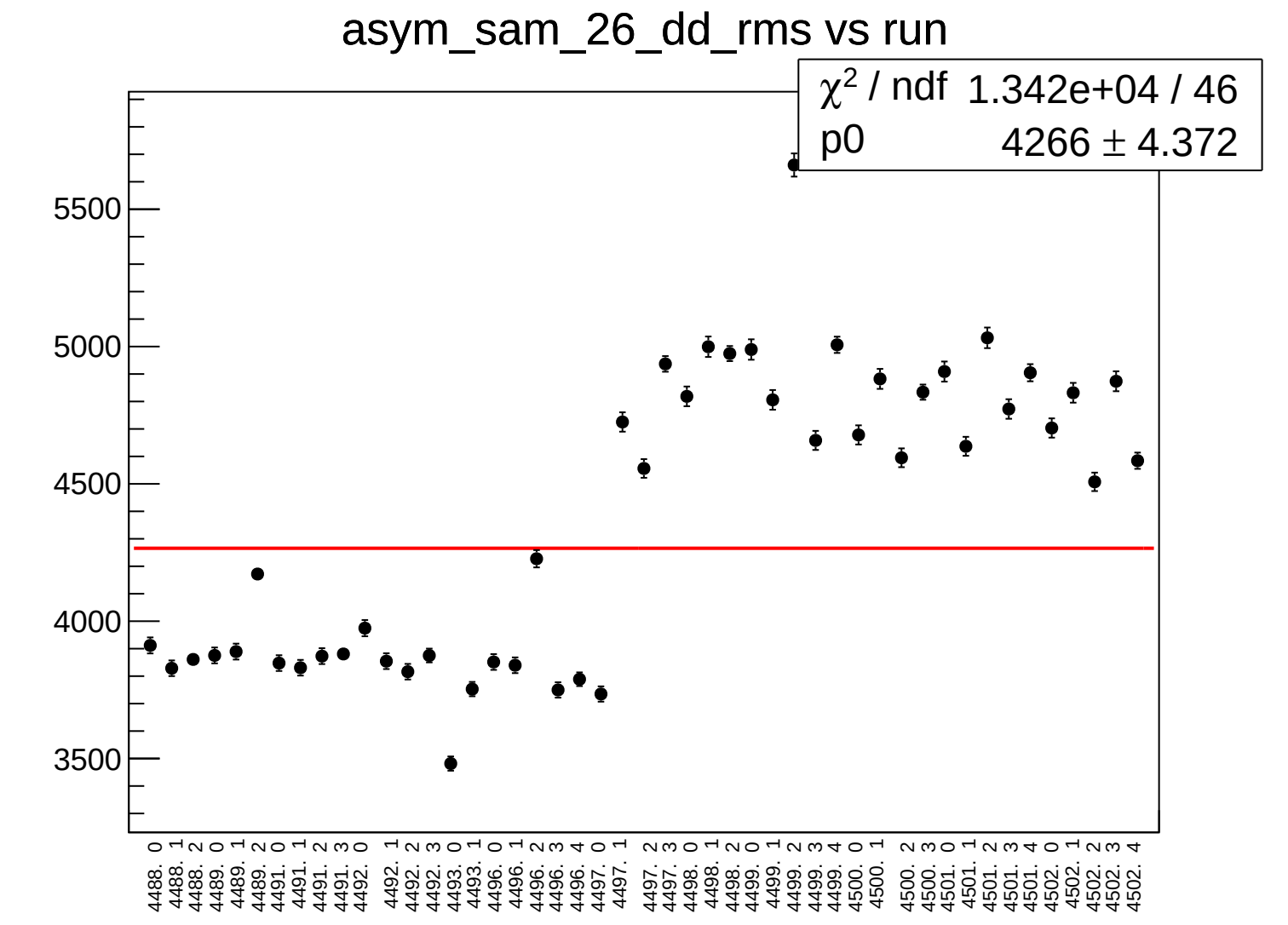

asym_sam_48_avg_correction_rms vs run
χ² / ndf 8077 / 46
p0 1947 ± 1.991
2400
2200
2000
1800
1600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

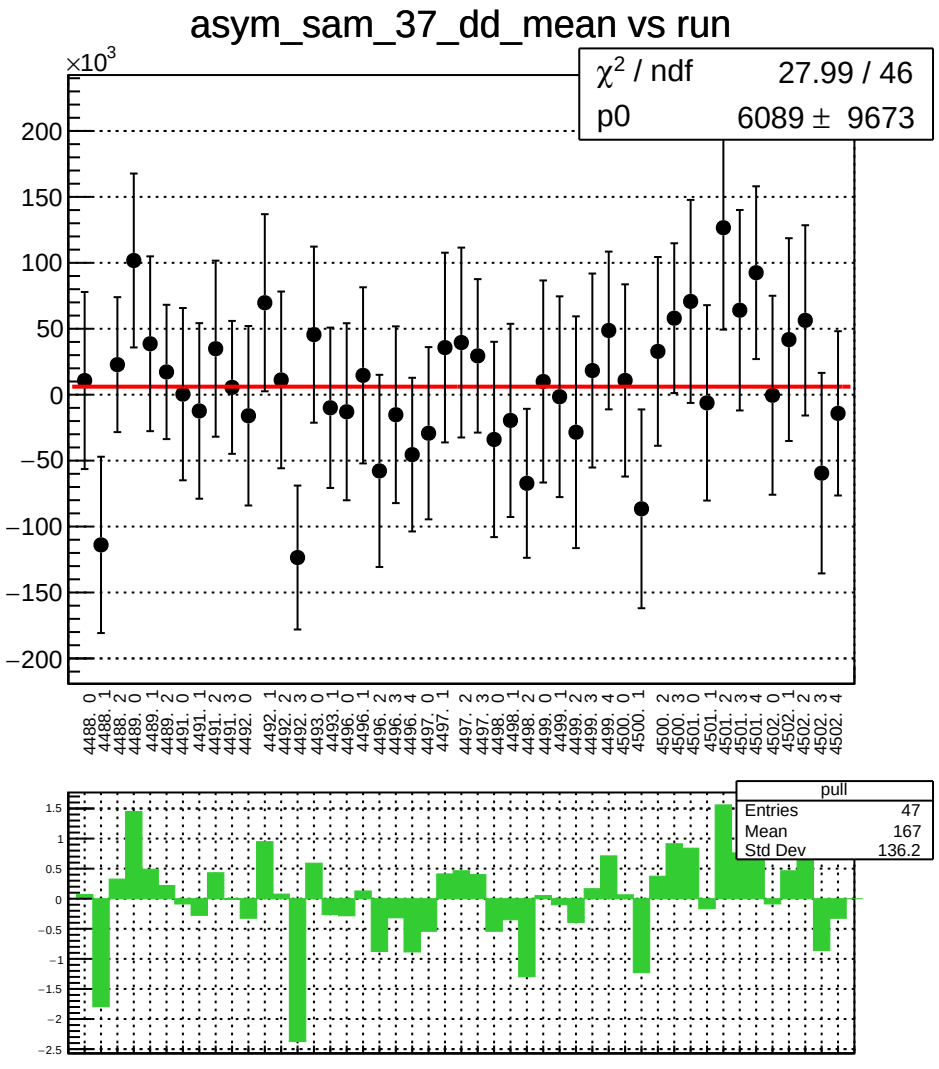

asym_sam_15_dd_mean vs run
χ² / ndf 27.07 / 46
p0 −1114 ± 739.2
pull
Entries 47
Mean 50.19
Std Dev 12.41

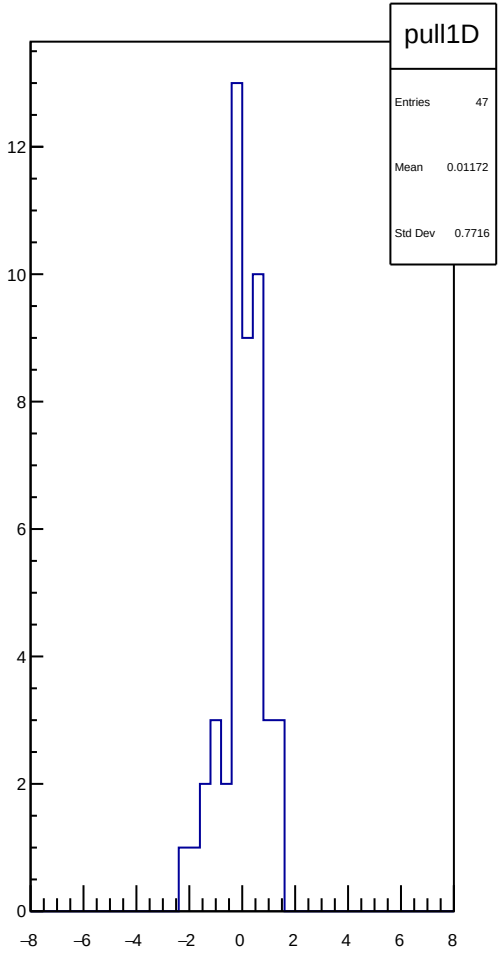

pull1D
Entries 47
Mean 0.05313
Std Dev 0.757

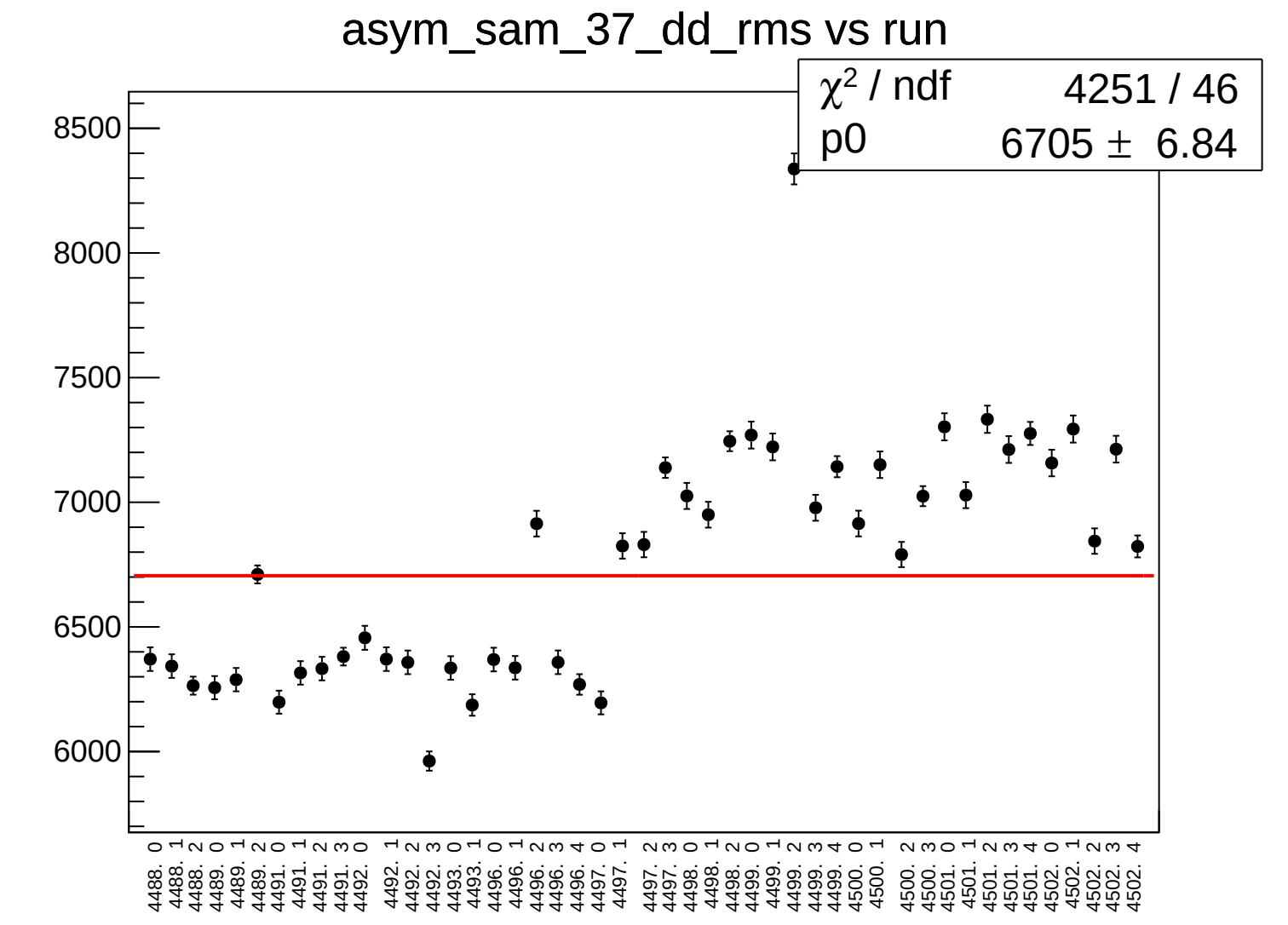

asym_sam_15_dd_rms vs run
χ² / ndf 2.725e+05 / 46
p0 435 ± 0.5227
1600
1400
1200
1000
800
600
400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

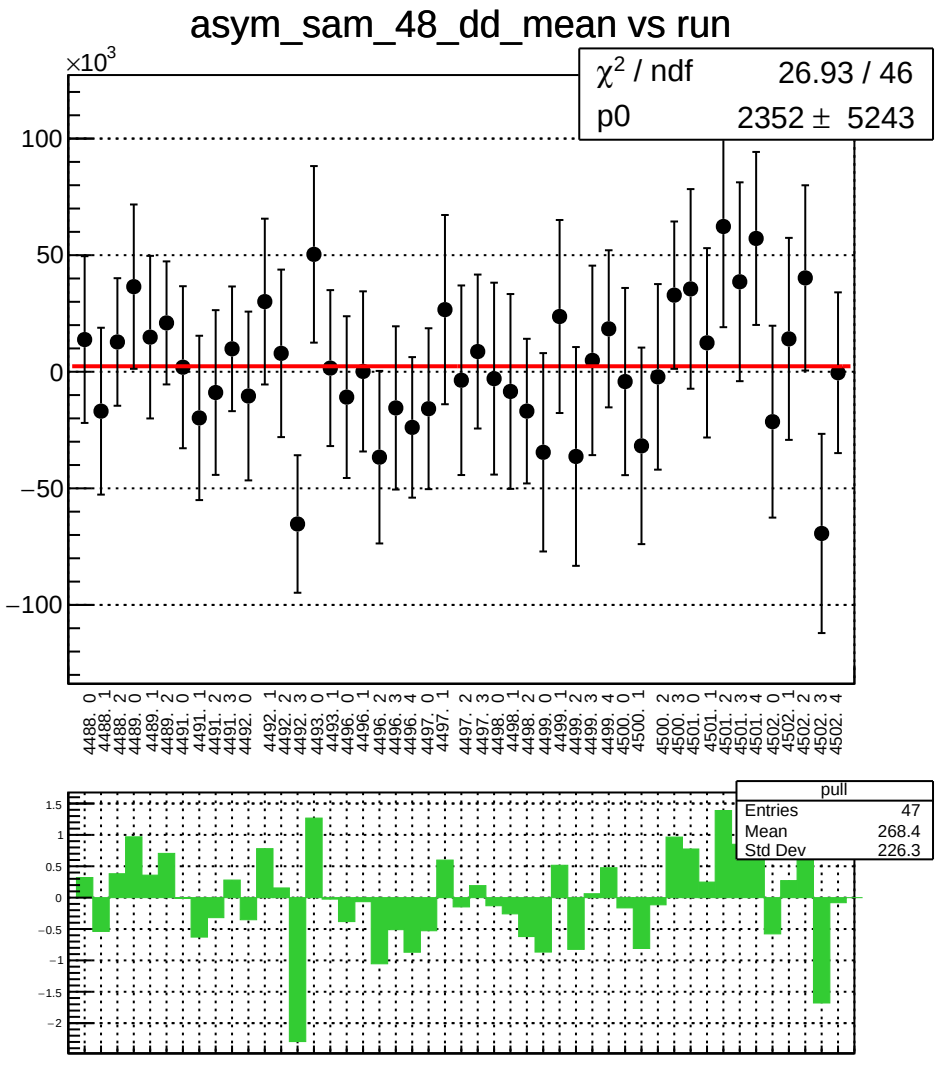

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 38.22 / 46
p0 2763 ± 6183
150
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 139.8
Std Dev 105.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 47
Mean 0.02029
Std Dev 0.9015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

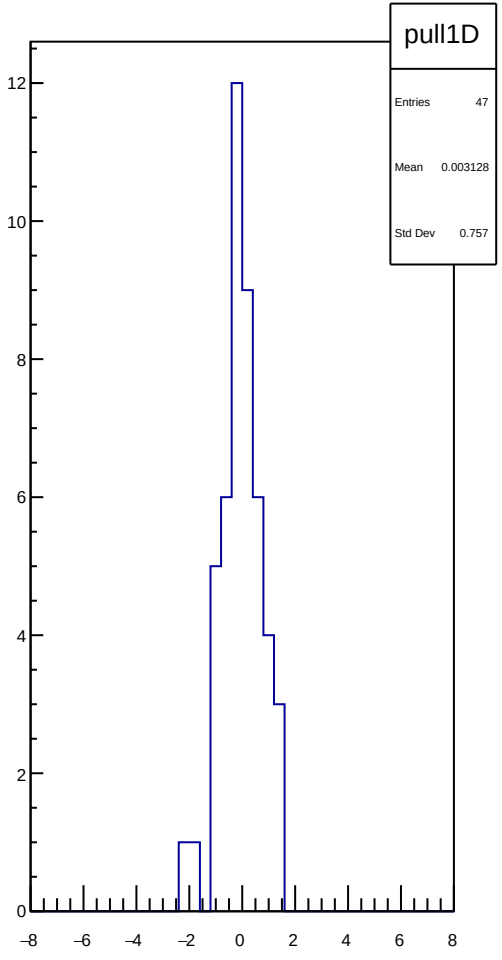

asym_sam_26_dd_rms vs run
χ^2 / ndf 1.342e+04 / 46
p0 4266 ± 4.372
5500
5000
4500
4000
3500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

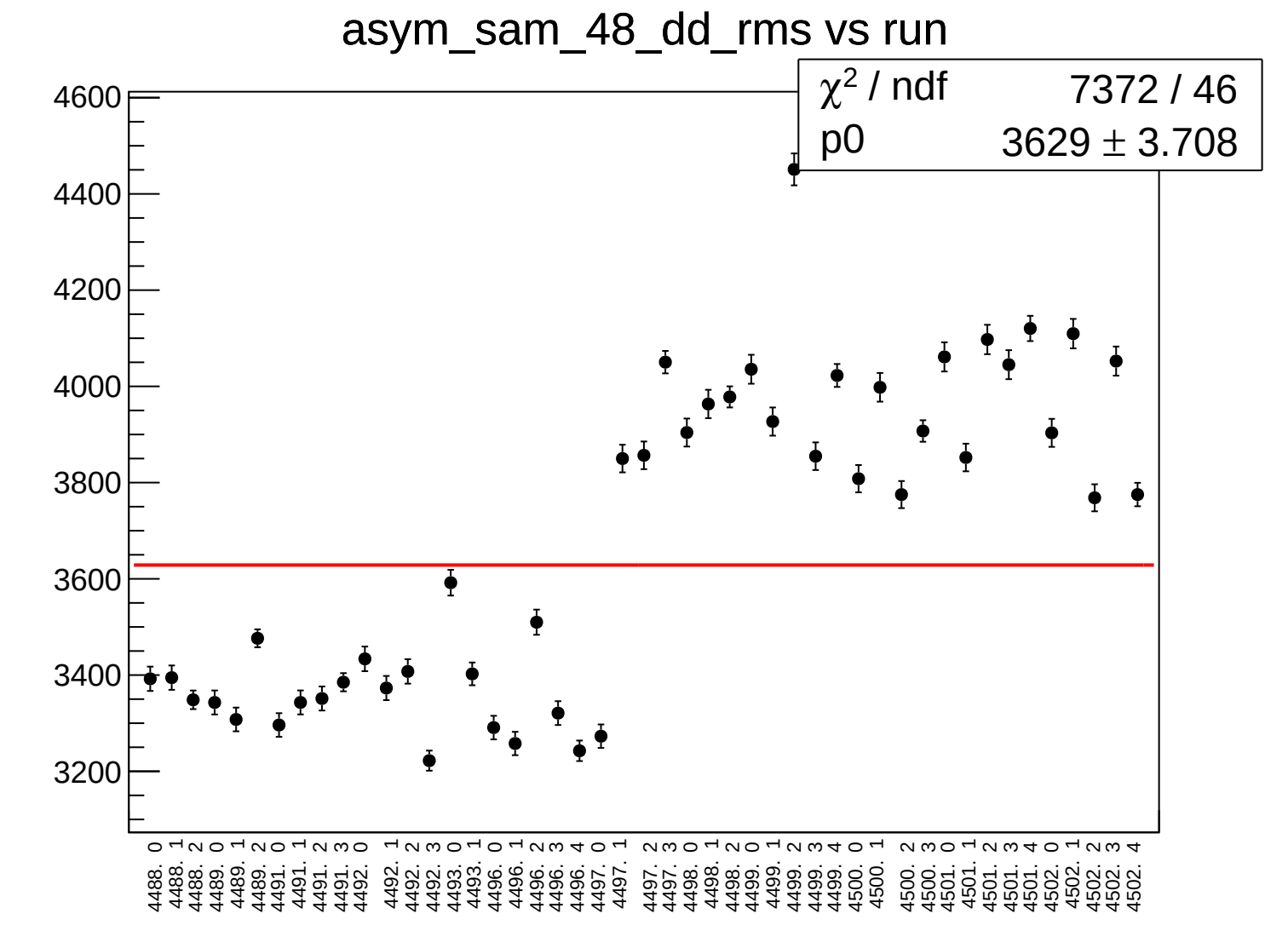

asym_sam_37_dd_mean vs run
×10^3
χ^2 / ndf 27.99 / 46
p0 6089 ± 9673
200
150
100
50
0
−50
−100
−150
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 167
Std Dev 136.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

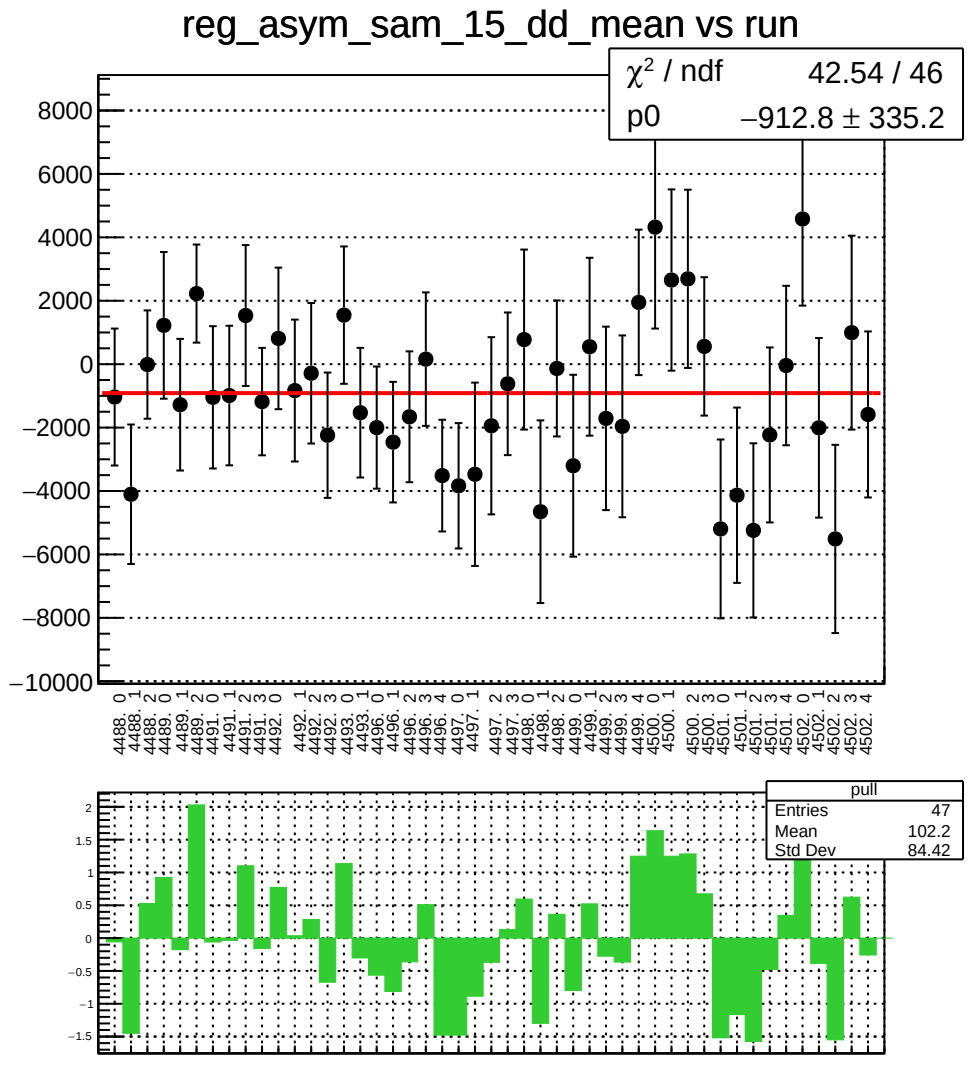

pull1D
Entries 47
Mean 0.01172
Std Dev 0.7716
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

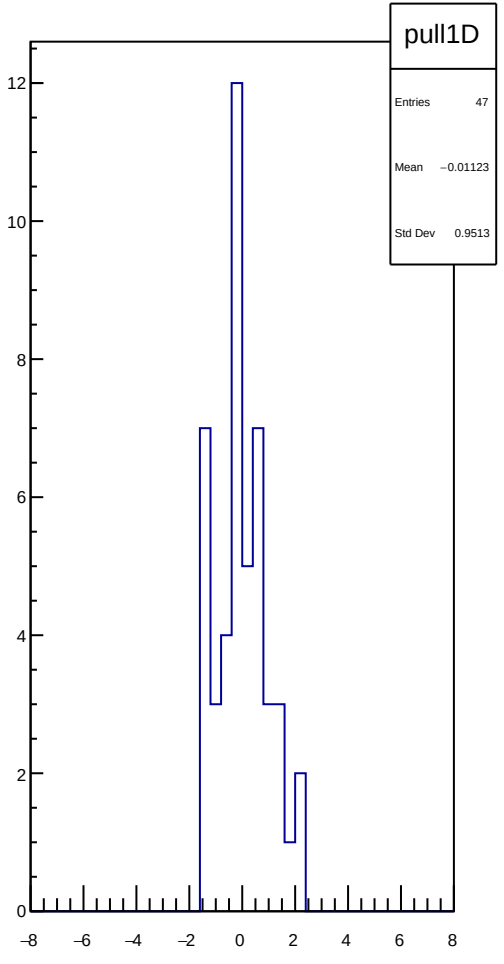

asym_sam_37_dd_rms vs run
χ² / ndf 4251 / 46
p0 6705 ± 6.84
8500
8000
7500
7000
6500
6000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

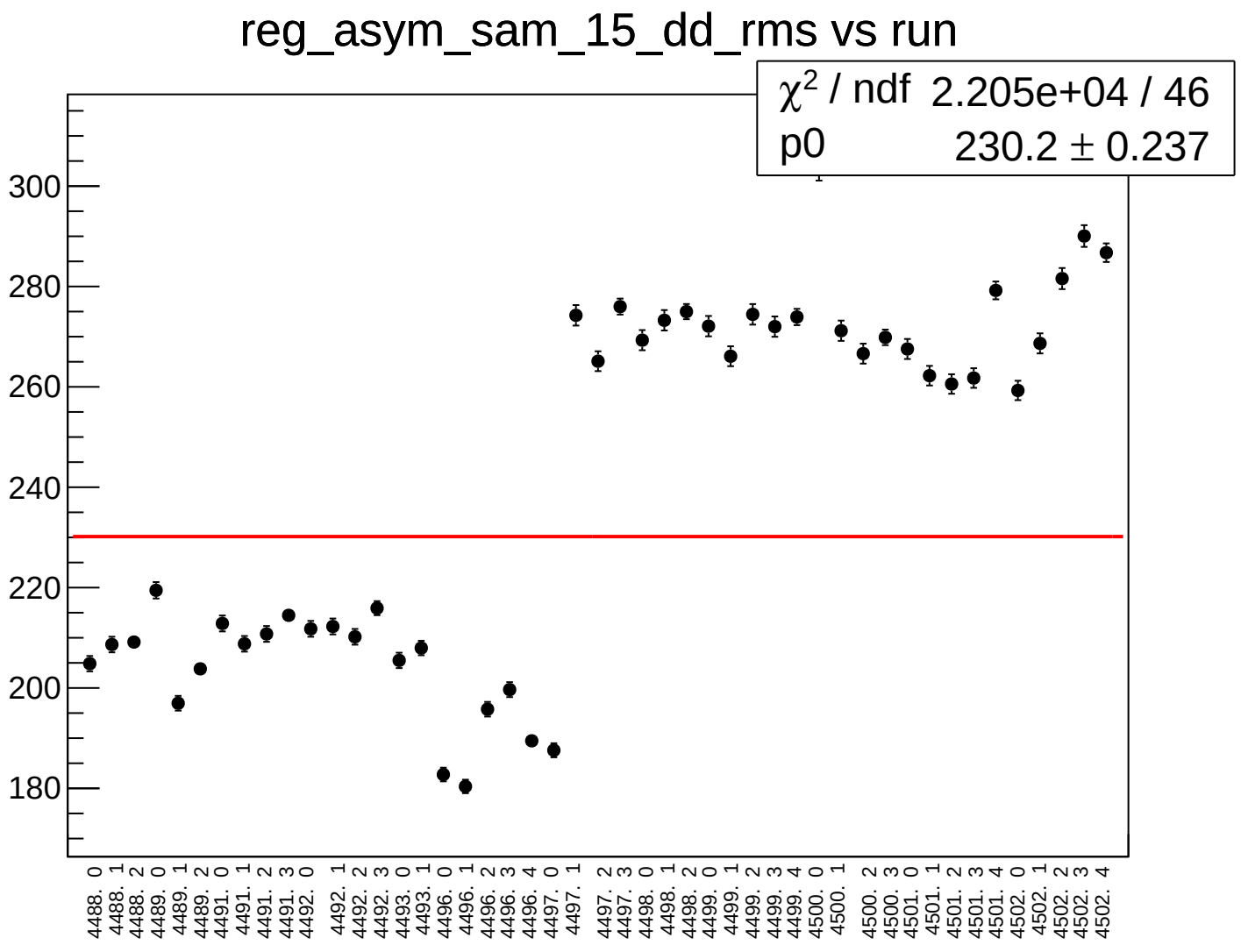

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 26.93 / 46
p0 2352 ± 5243
100
50
0
−50
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 268.4
Std Dev 226.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

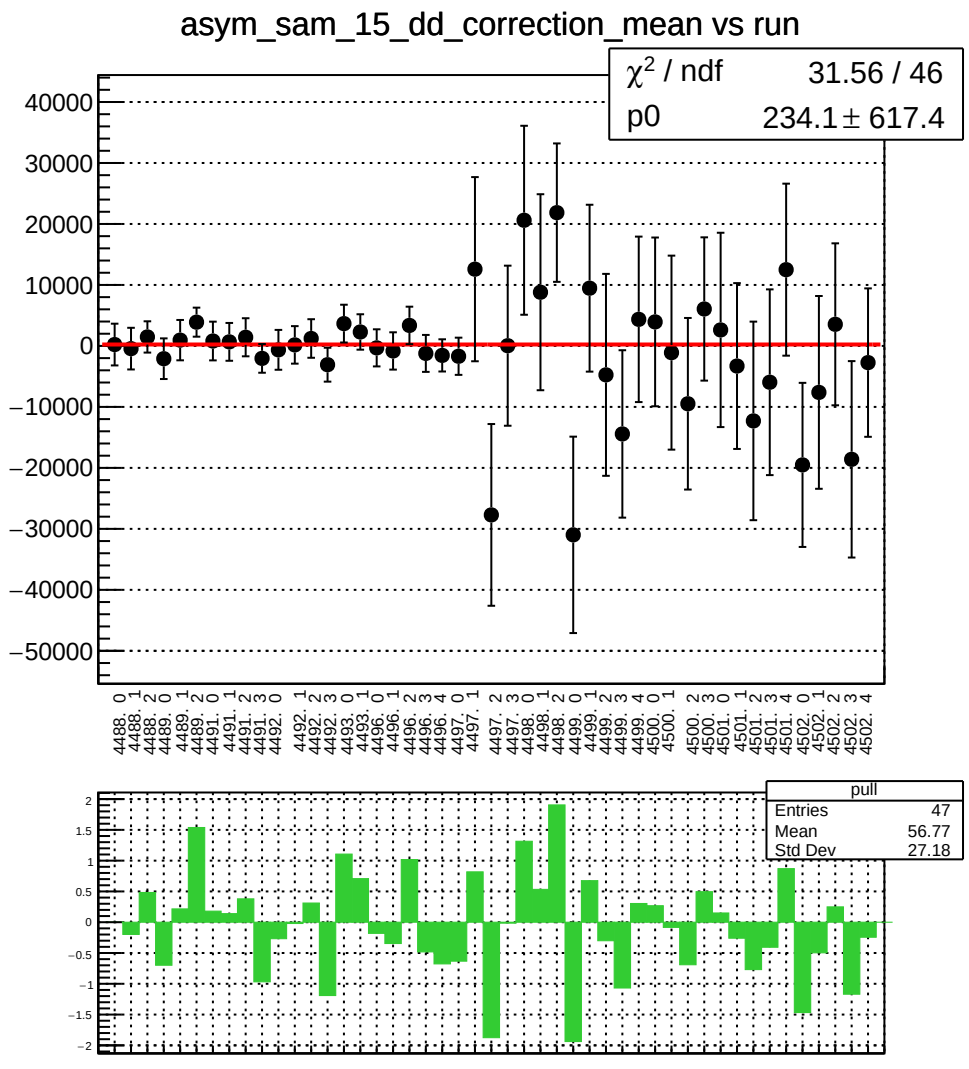

pull1D
Entries 47
Mean 0.003128
Std Dev 0.757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

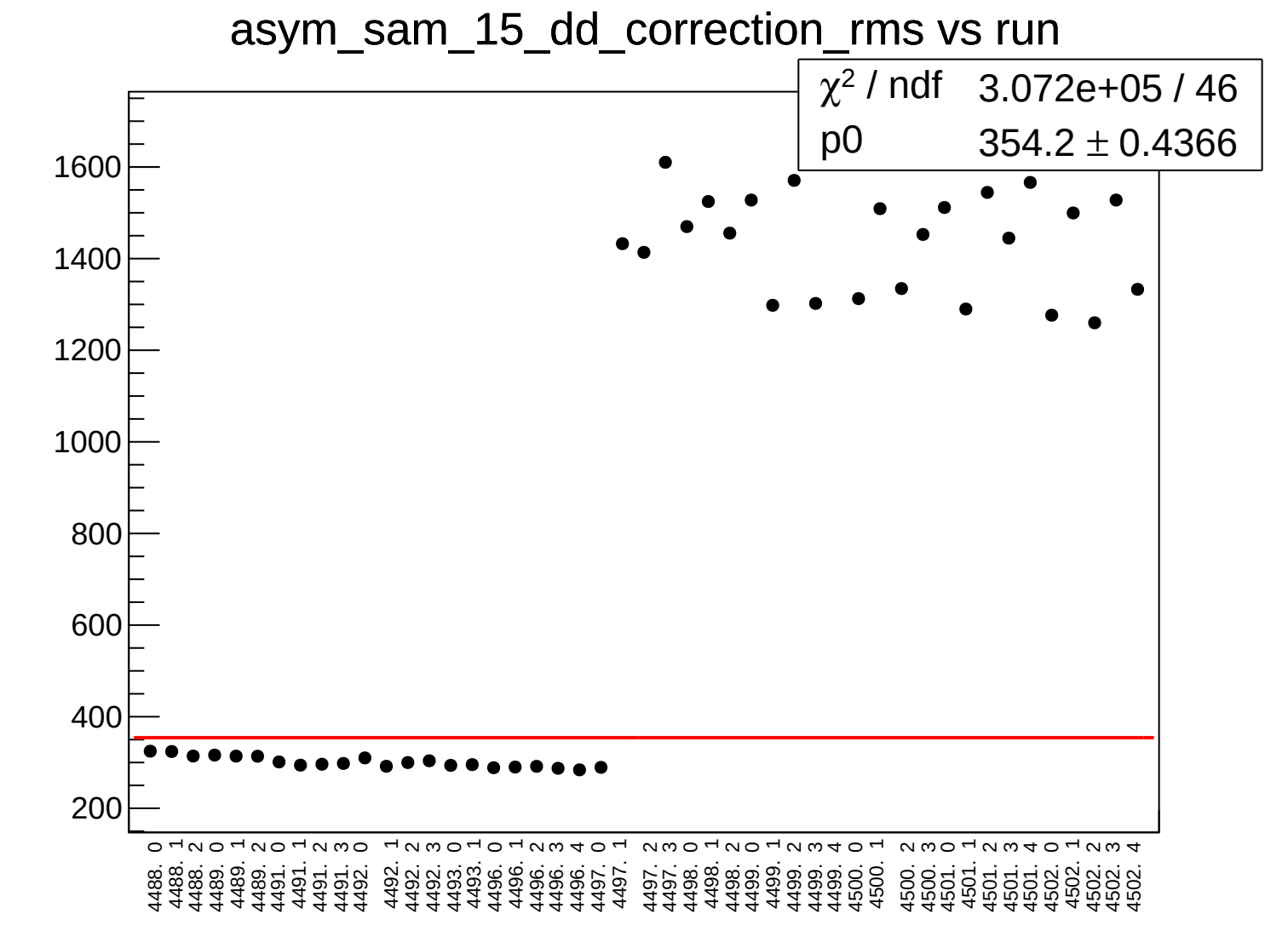

asym_sam_48_dd_rms vs run
χ² / ndf 7372 / 46
p0 3629 ± 3.708
4600
4400
4200
4000
3800
3600
3400
3200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

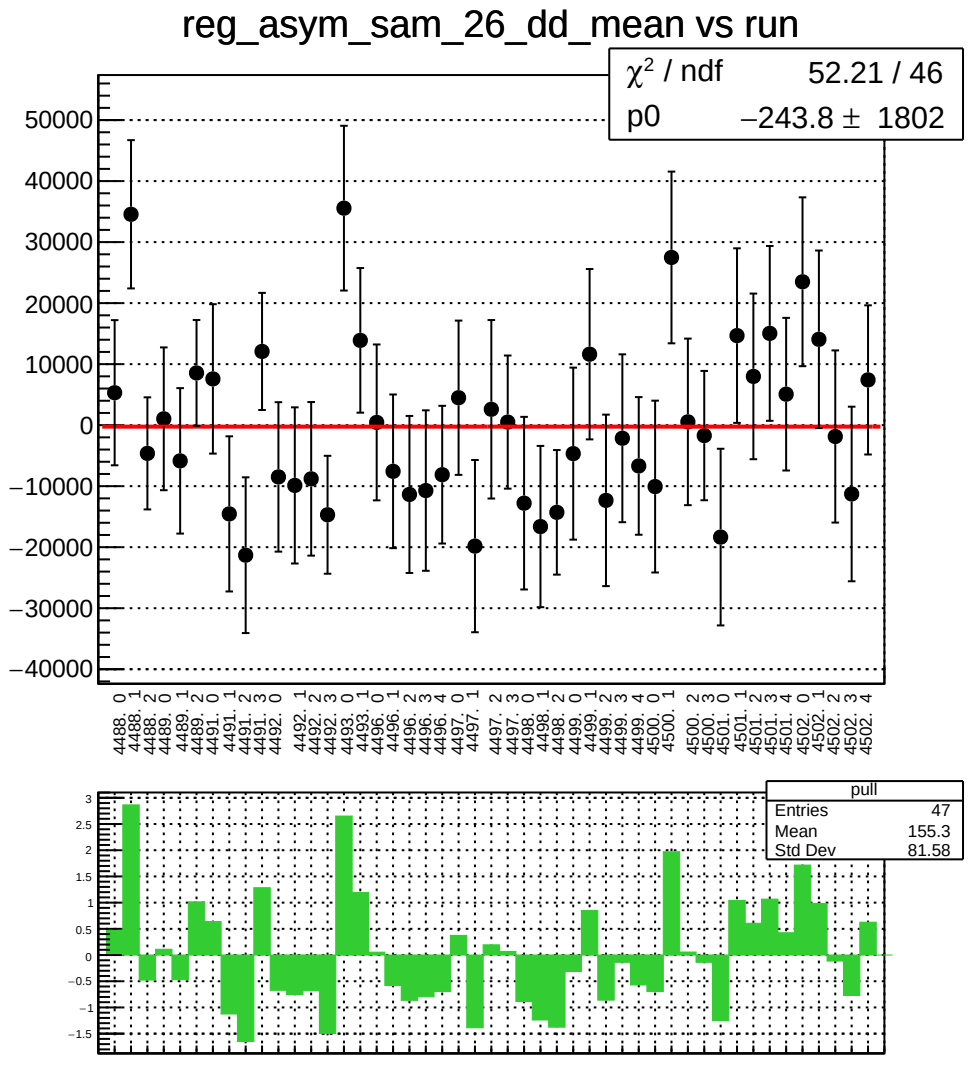

reg_asym_sam_15_dd_mean vs run
χ² / ndf 42.54 / 46
p0 −912.8 ± 335.2
pull
Entries 47
Mean 102.2
Std Dev 84.42

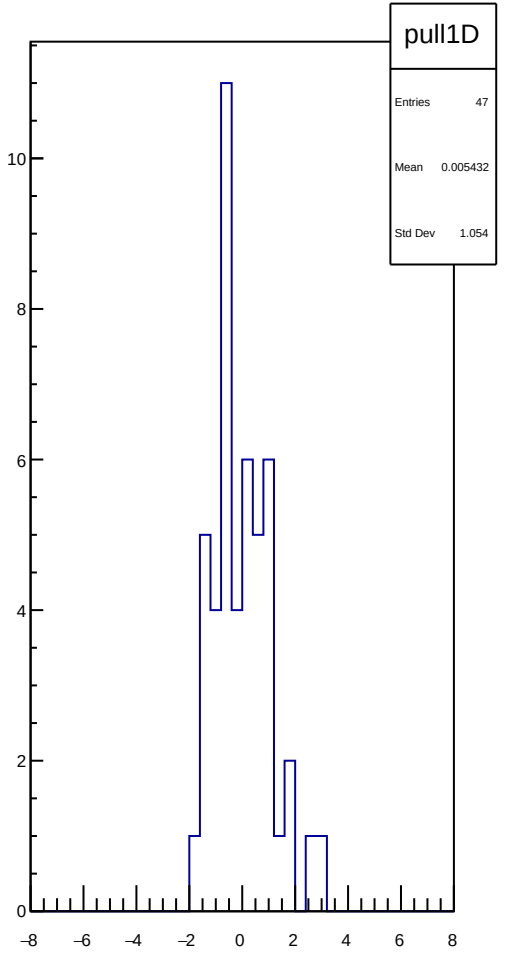

pull1D
Entries 47
Mean −0.01123
Std Dev 0.9513

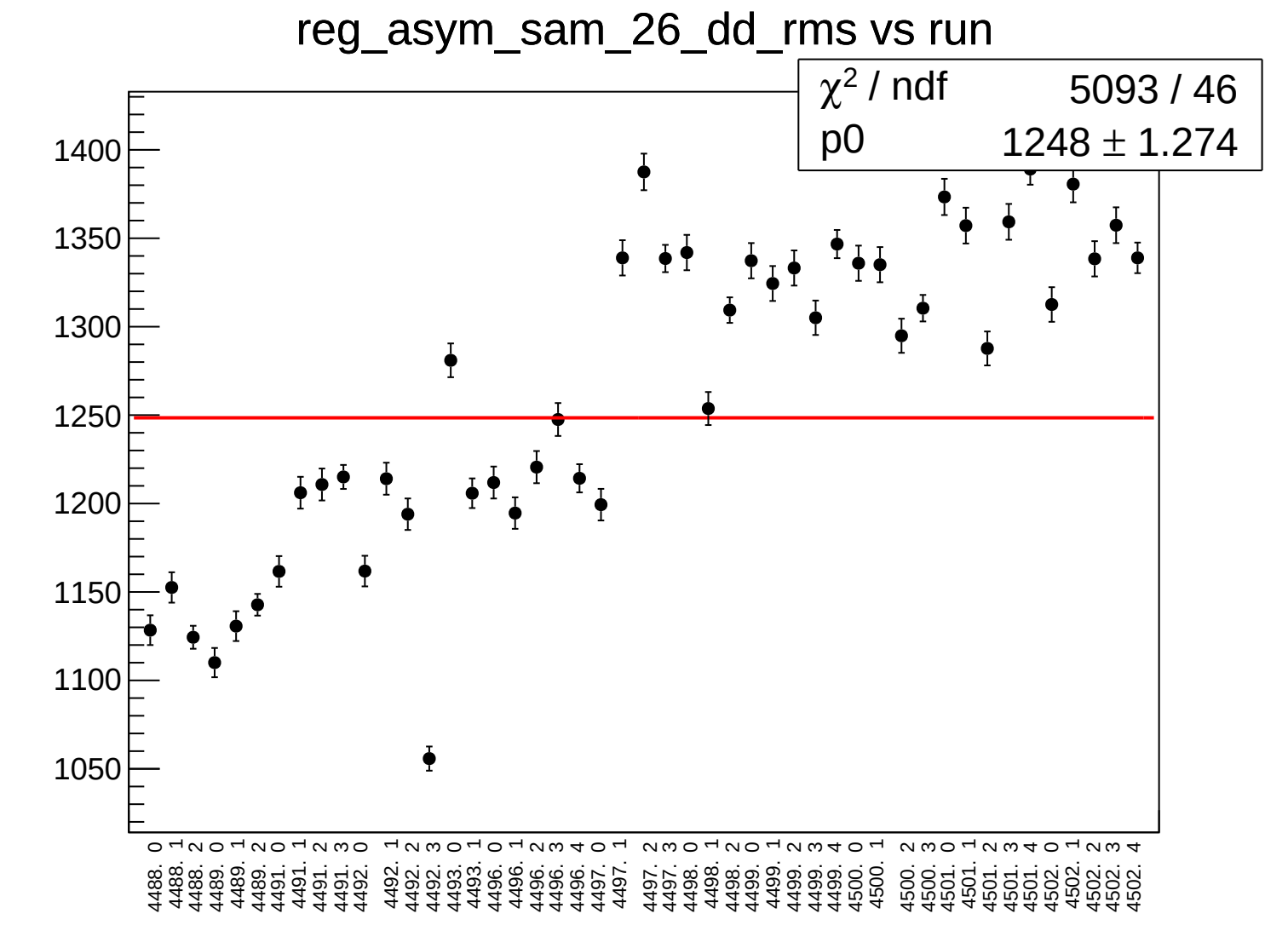

reg_asym_sam_15_dd_rms vs run
χ² / ndf 2.205e+04 / 46
p0 230.2 ± 0.237
300
280
260
240
220
200
180
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

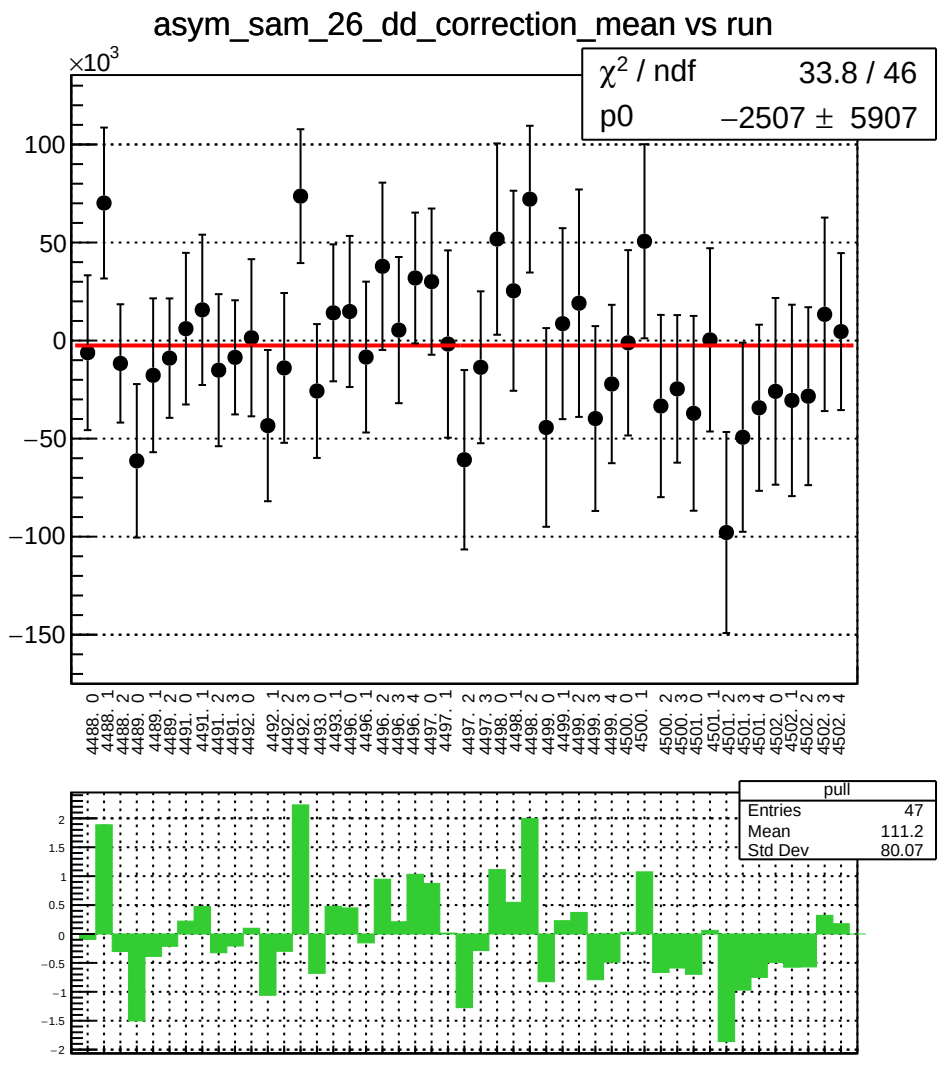

asym_sam_15_dd_correction_mean vs run
χ² / ndf 31.56 / 46
p0 234.1 ± 617.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 56.77
Std Dev 27.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 47
Mean −0.05934
Std Dev 0.8173
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

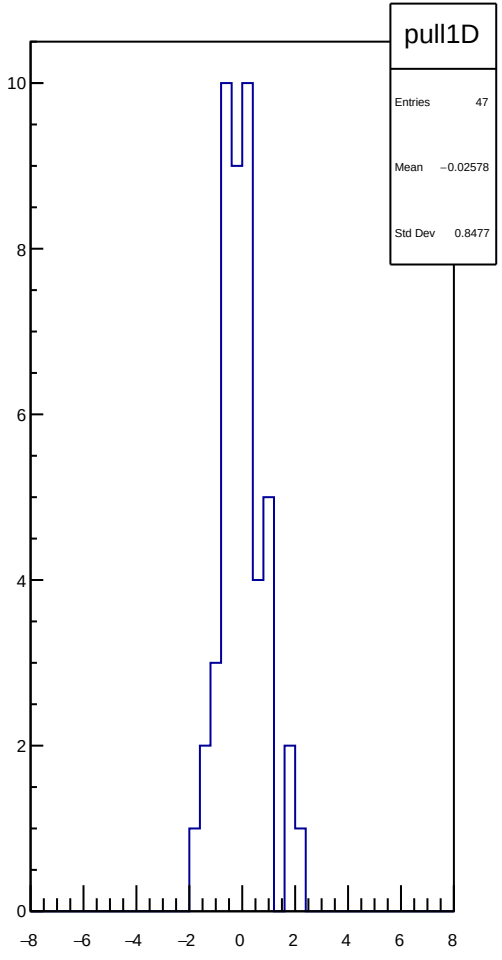

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3.072e+05 / 46
p0 354.2 ± 0.4366
1600
1400
1200
1000
800
600
400
200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

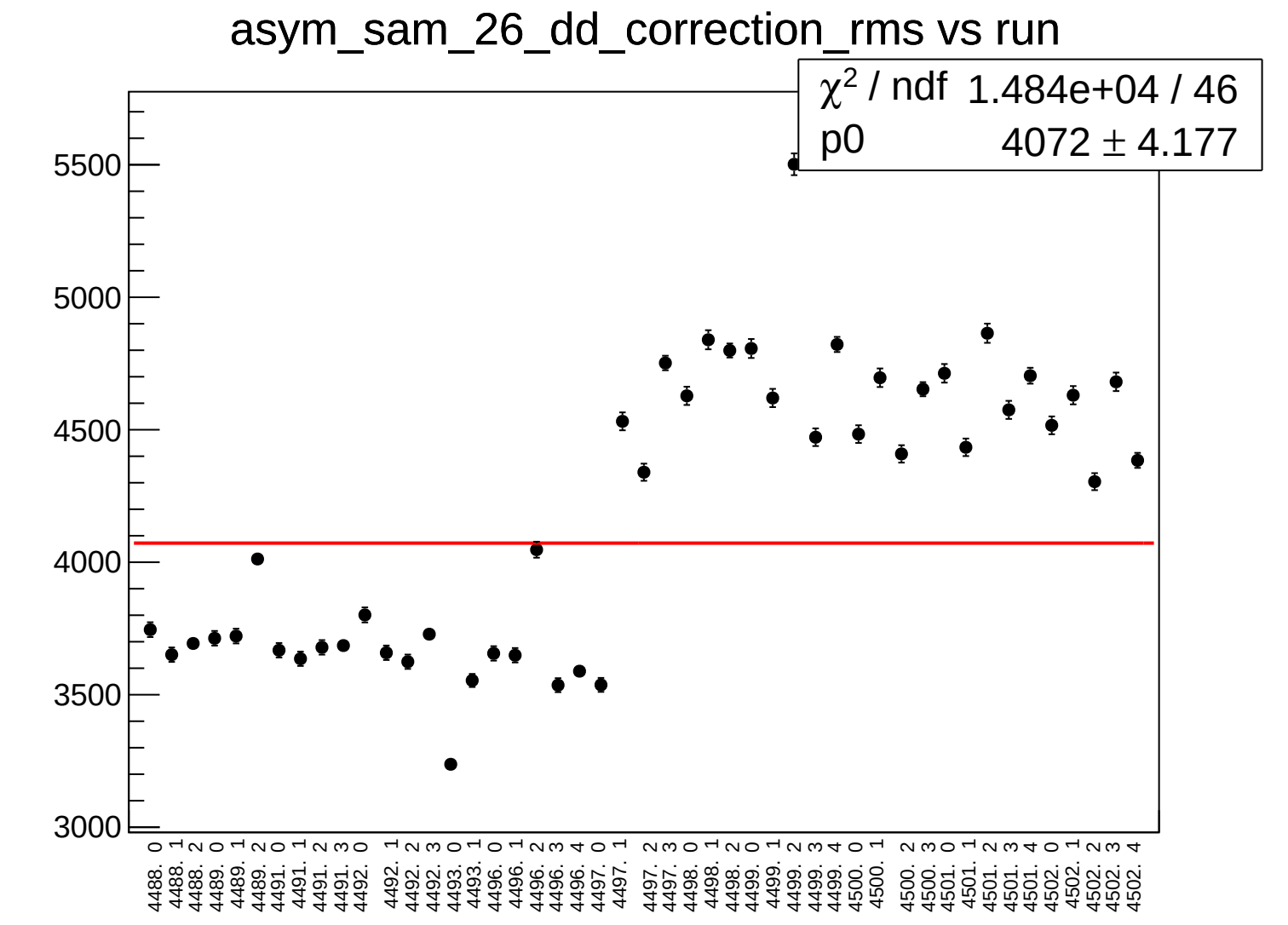

reg_asym_sam_26_dd_mean vs run
χ² / ndf 52.21 / 46
p0 −243.8 ± 1802
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 155.3
Std Dev 81.58
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

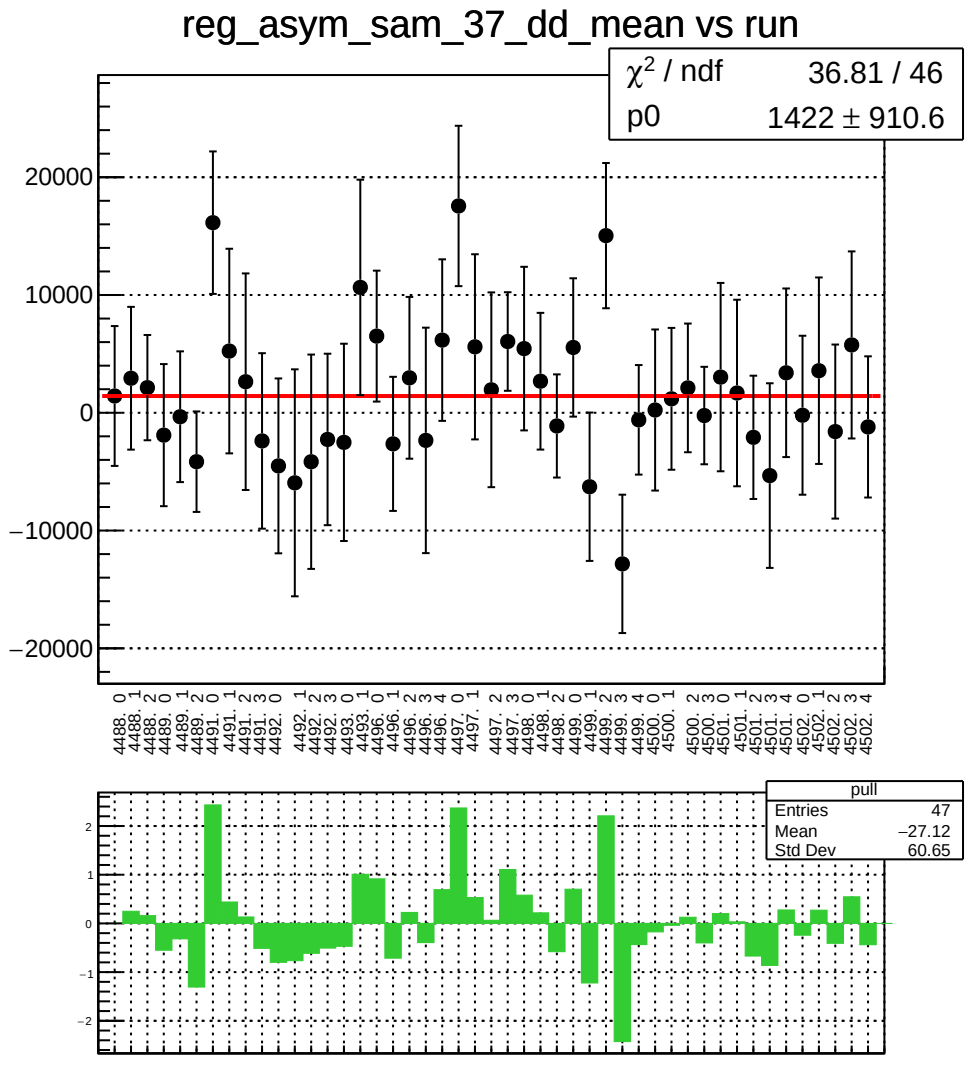

pull1D
Entries 47
Mean 0.005432
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

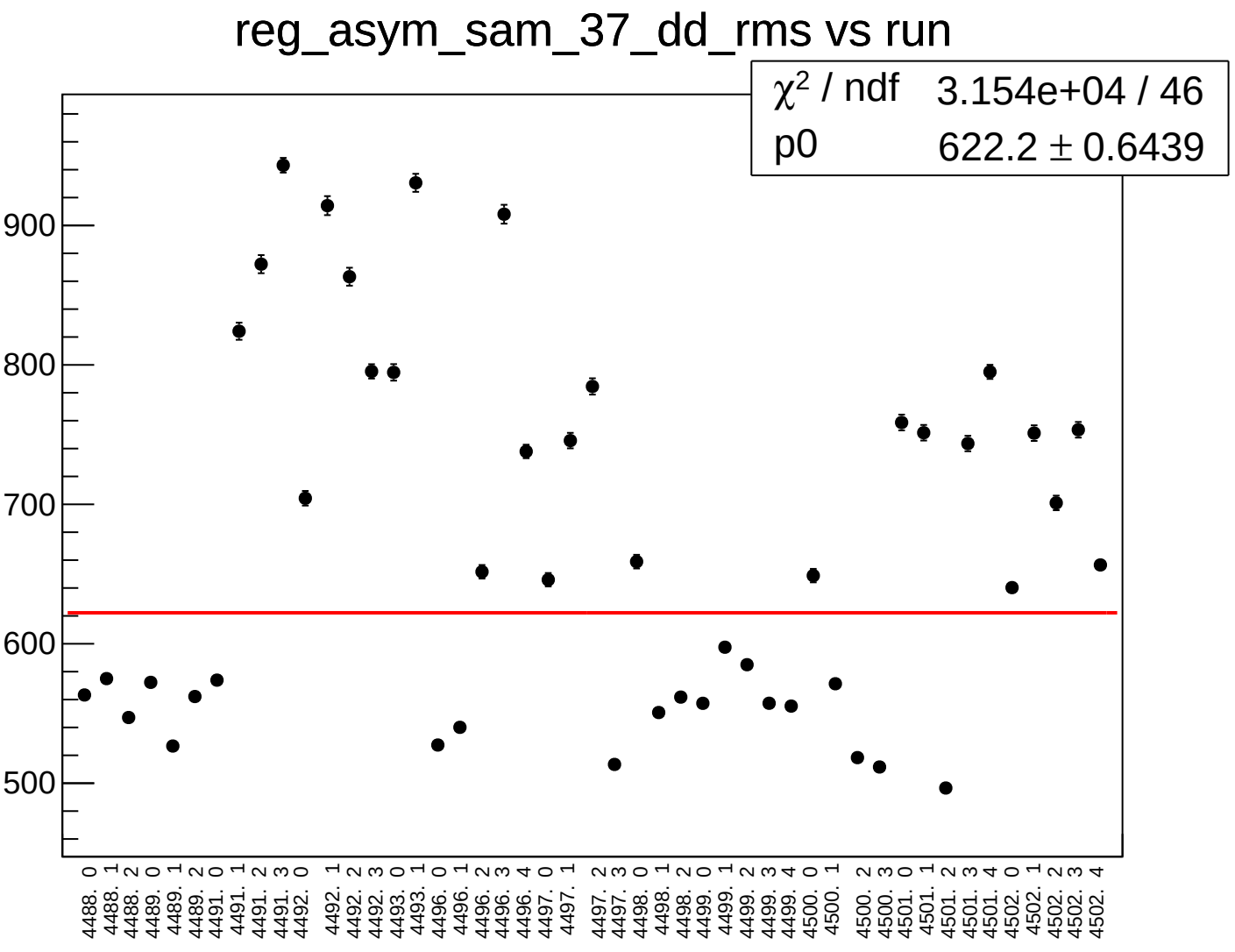

reg_asym_sam_26_dd_rms vs run
χ² / ndf 5093 / 46
p0 1248 ± 1.274
1400
1350
1300
1250
1200
1150
1100
1050
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

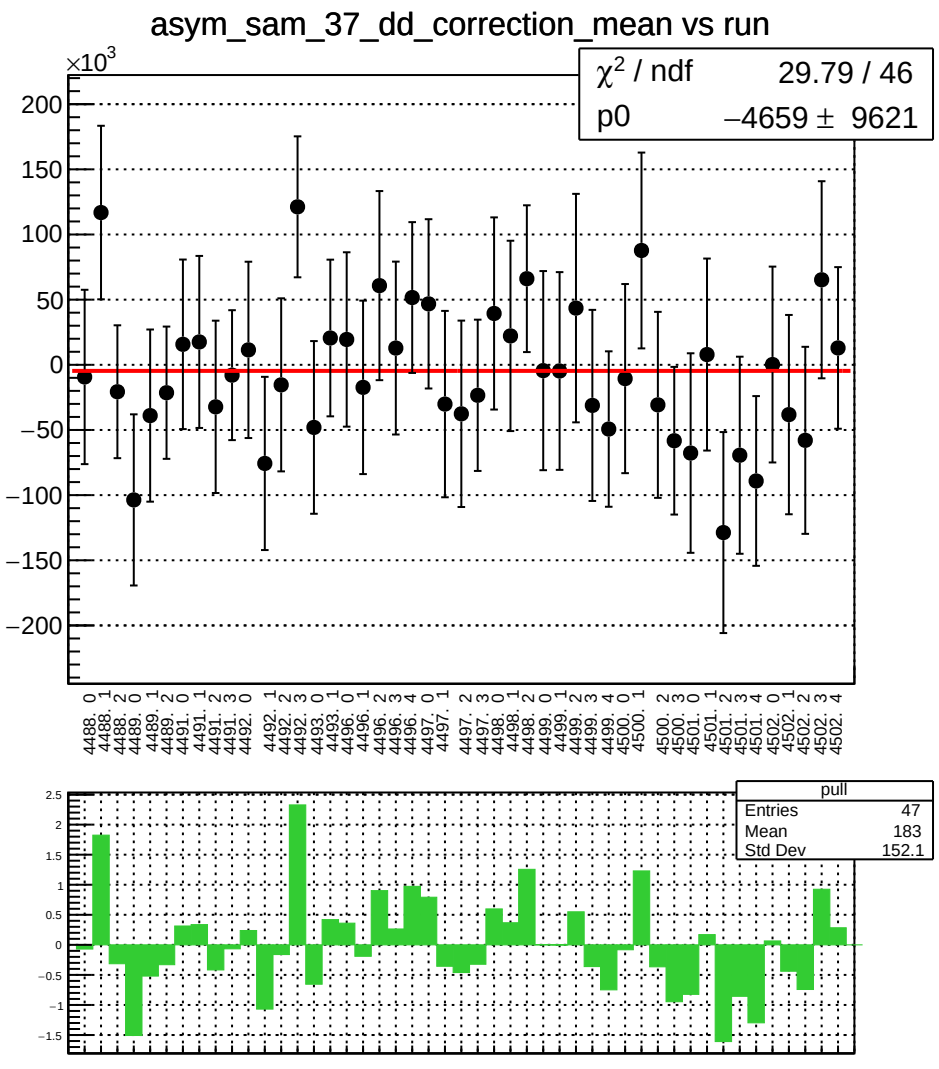

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 33.8 / 46
p0 −2507 ± 5907
100
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 111.2
Std Dev 80.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

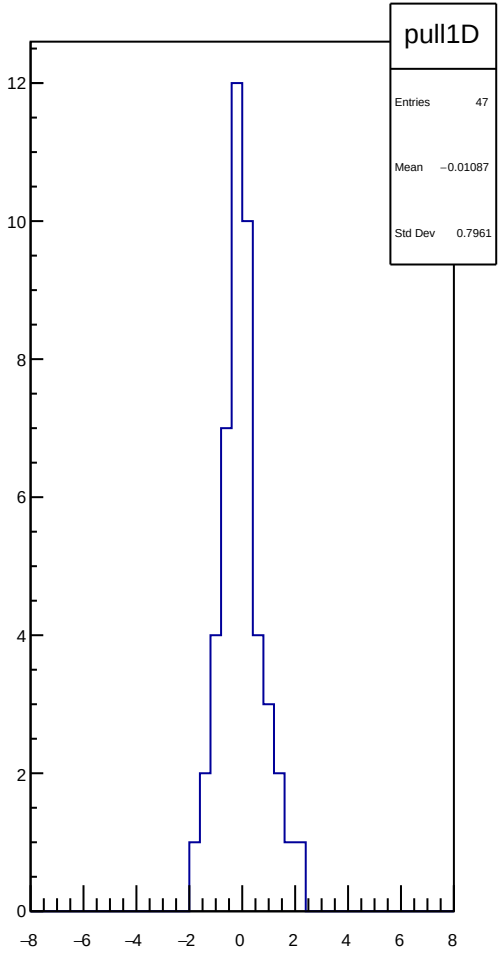

pull1D
Entries 47
Mean −0.02578
Std Dev 0.8477
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

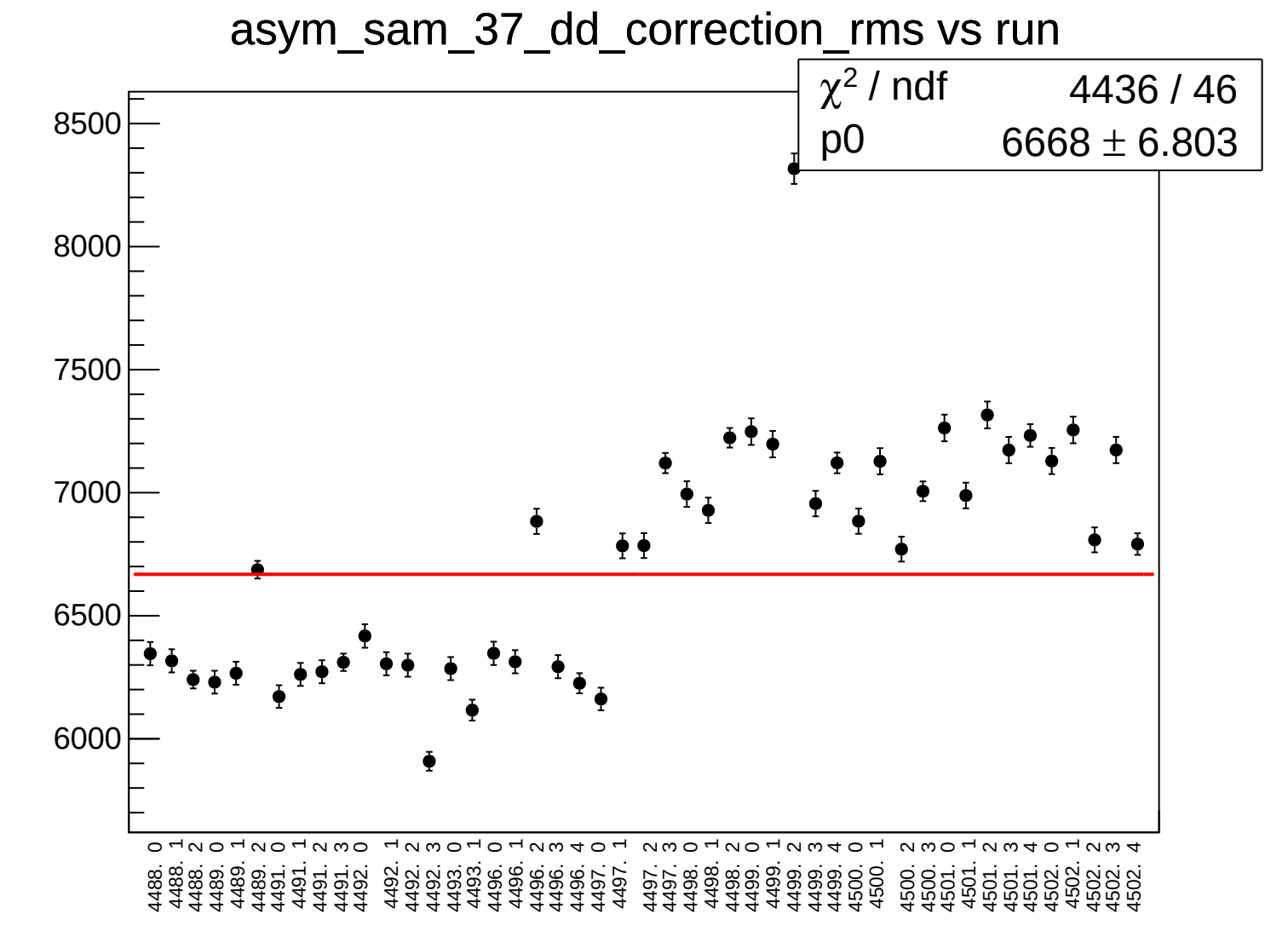

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.484e+04 / 46
p0 4072 ± 4.177
5500
5000
4500
4000
3500
3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

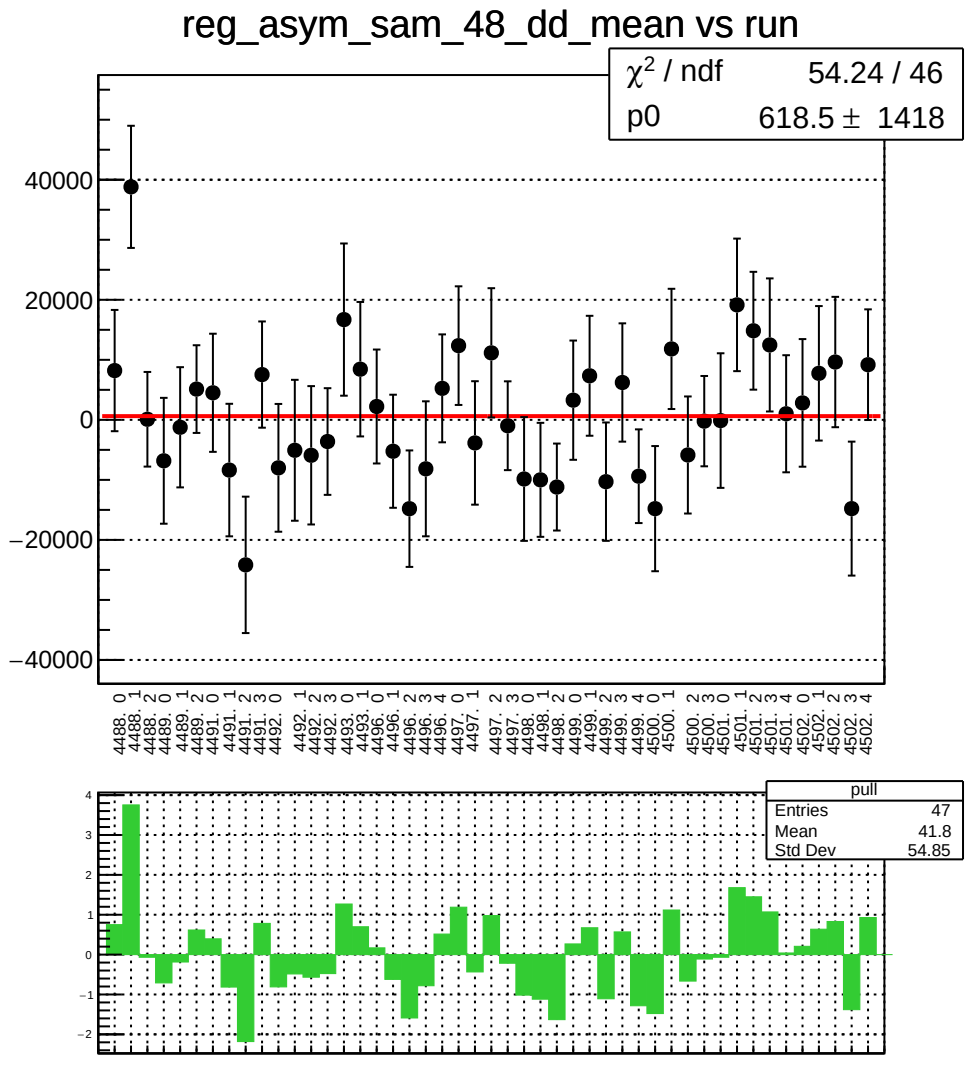

reg_asym_sam_37_dd_mean vs run
χ² / ndf 36.81 / 46
p0 1422 ± 910.6
20000
10000
0
−10000
−20000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −27.12
Std Dev 60.65
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.01381
Std Dev 0.8849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

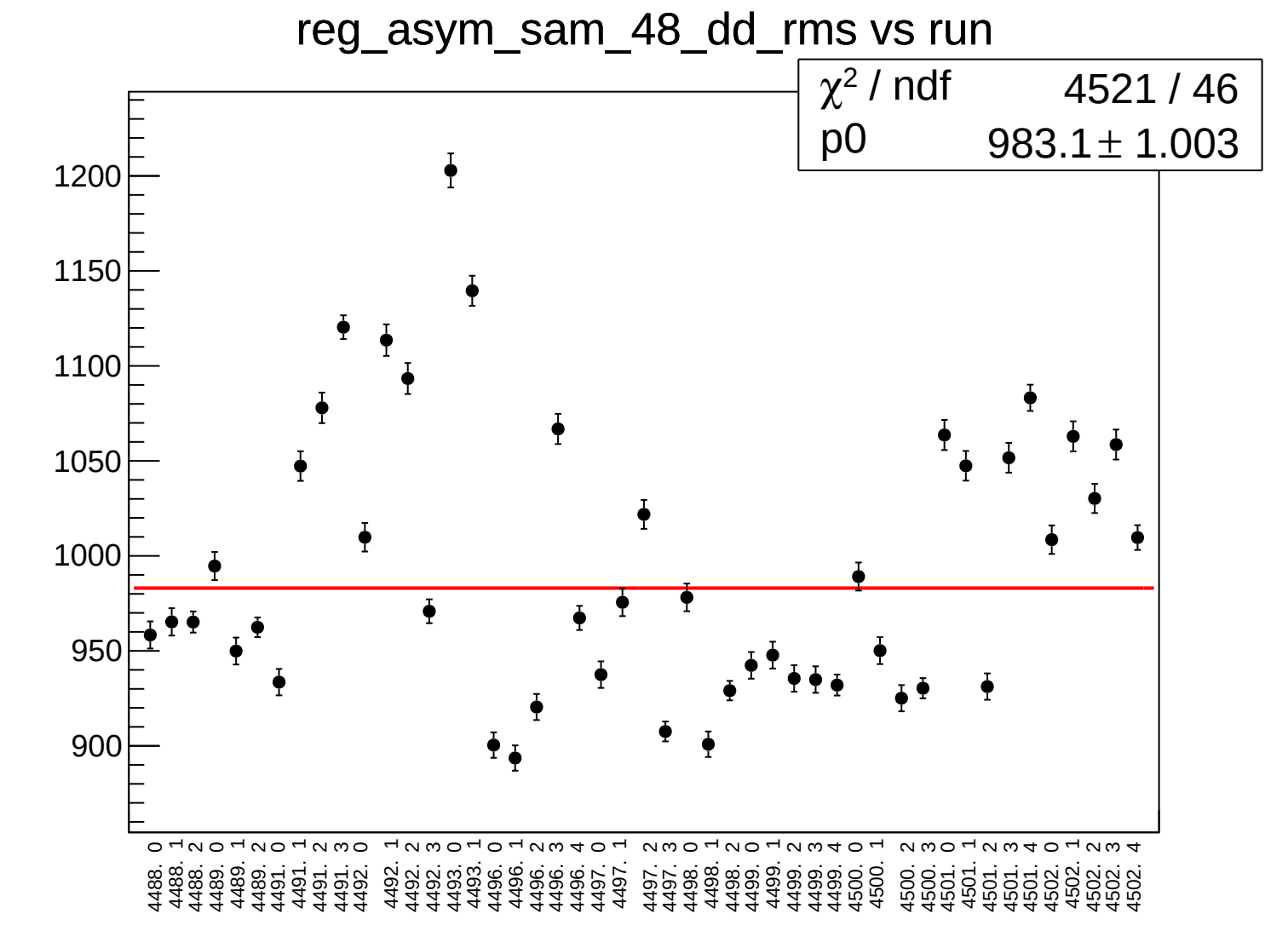

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.154e+04 / 46
p0 622.2 ± 0.6439
900
800
700
600
500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

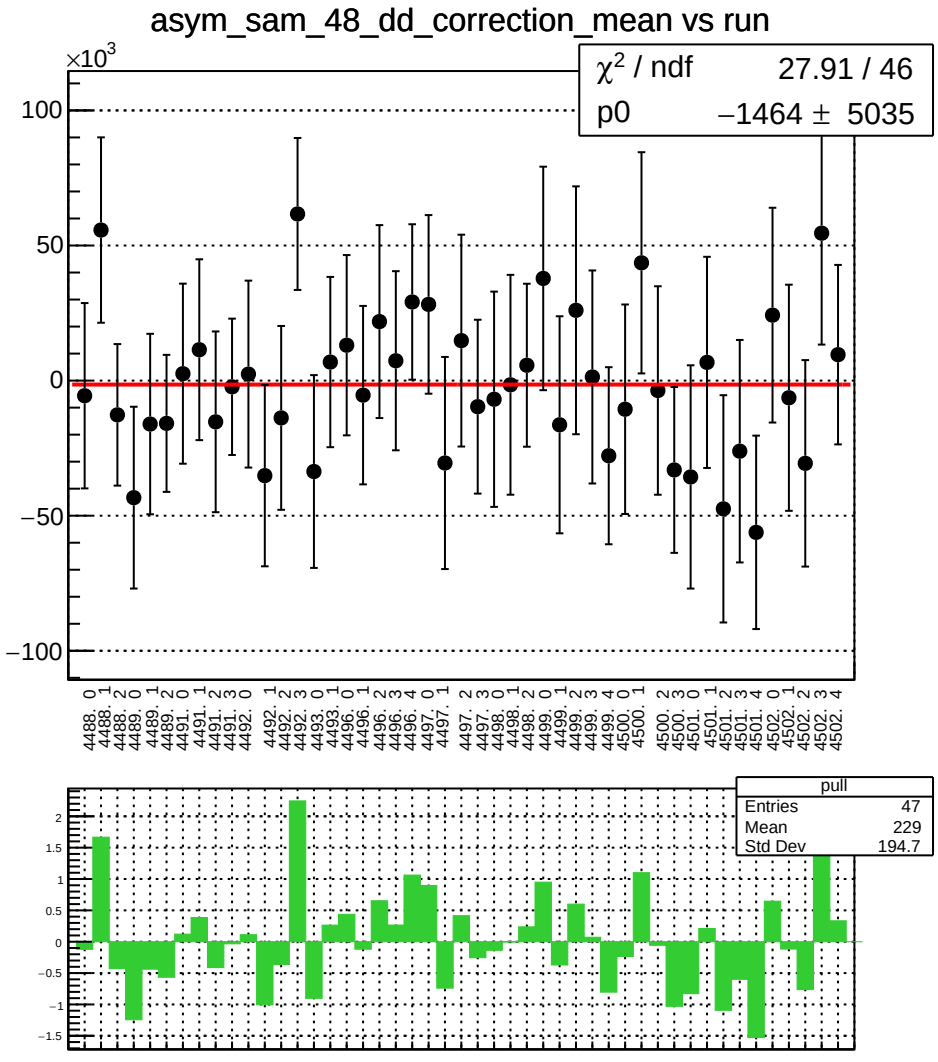

asym_sam_37_dd_correction_mean vs run
×10^3
χ^2 / ndf 29.79 / 46
p0 −4659 ± 9621
200
150
100
50
0
−50
−100
−150
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 183
Std Dev 152.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

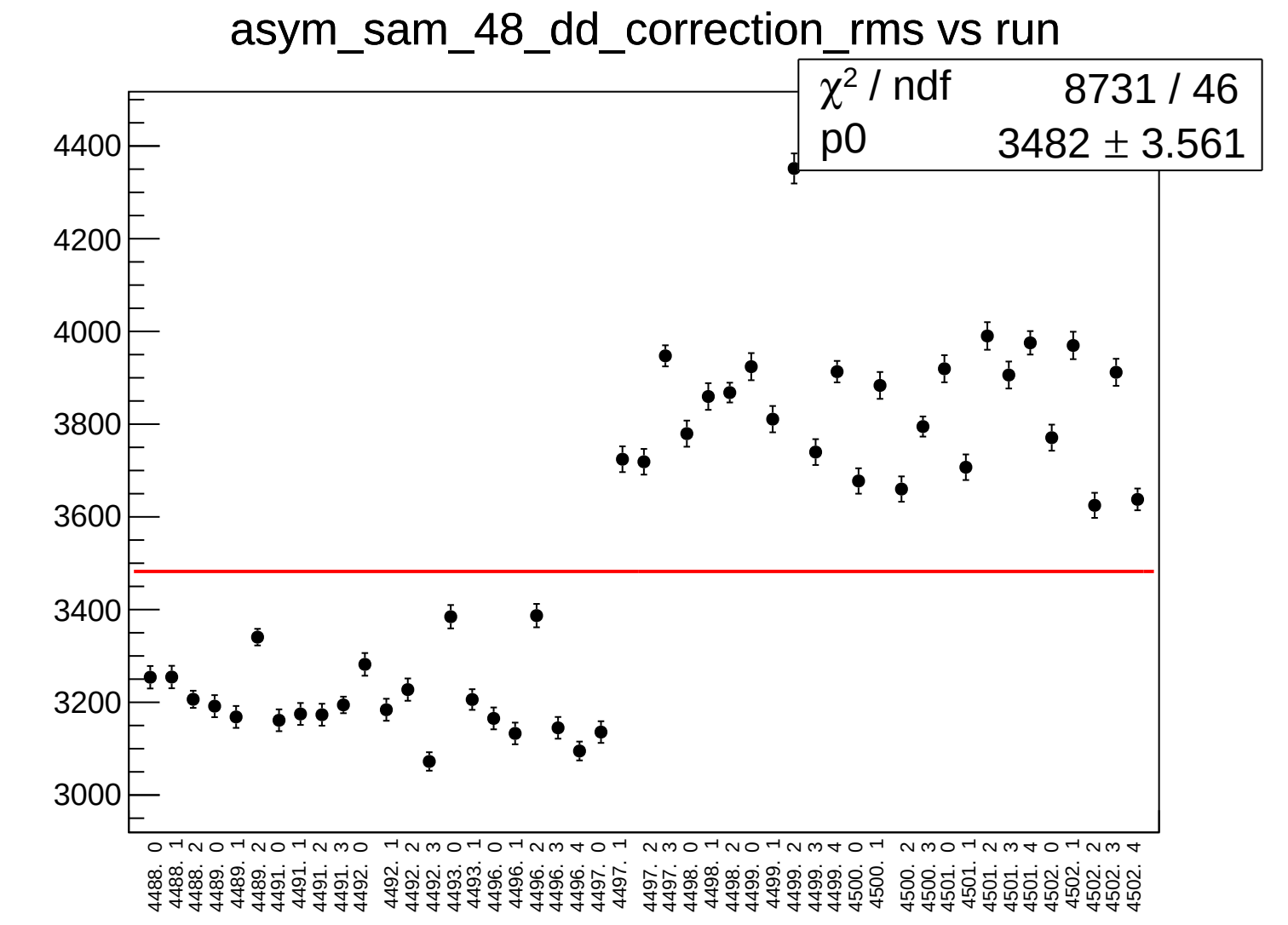

pull1D
Entries 47
Mean −0.01087
Std Dev 0.7961
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

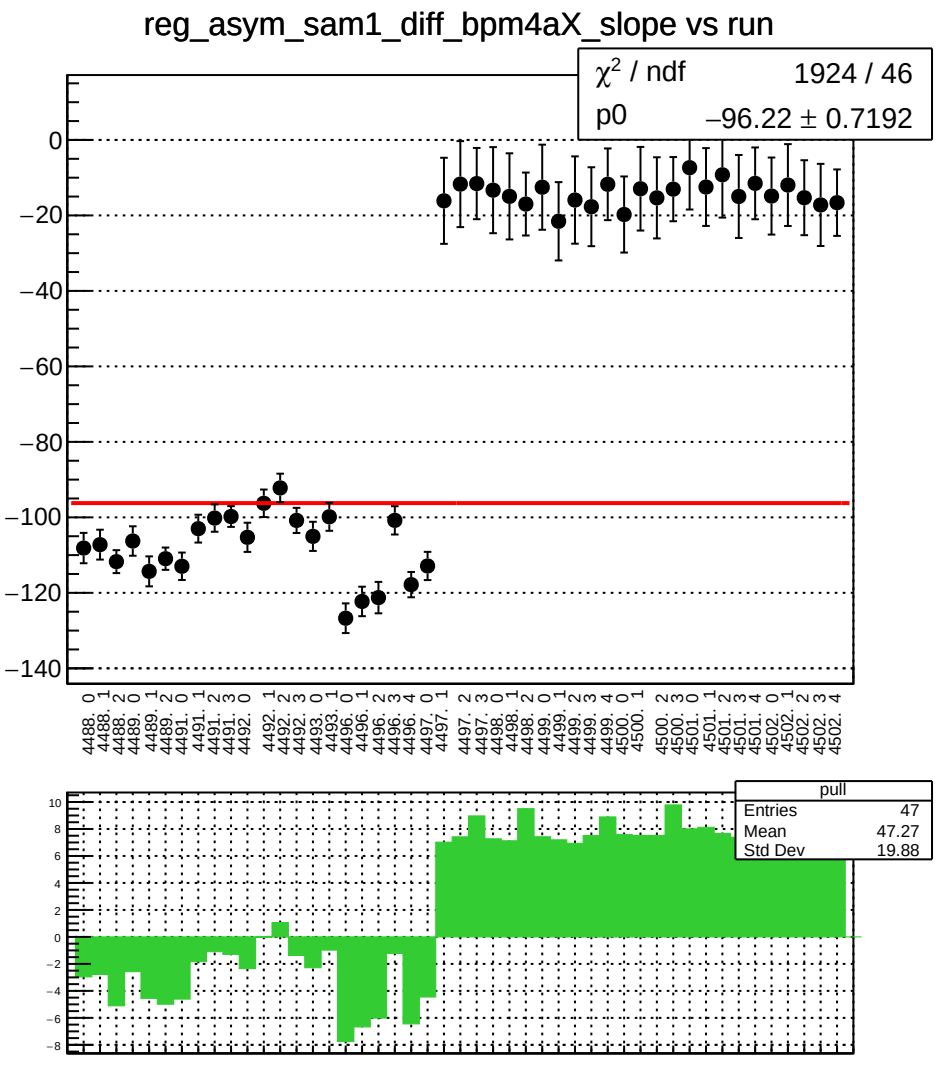

asym_sam_37_dd_correction_rms vs run
χ² / ndf 4436 / 46
p0 6668 ± 6.803
8500
8000
7500
7000
6500
6000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

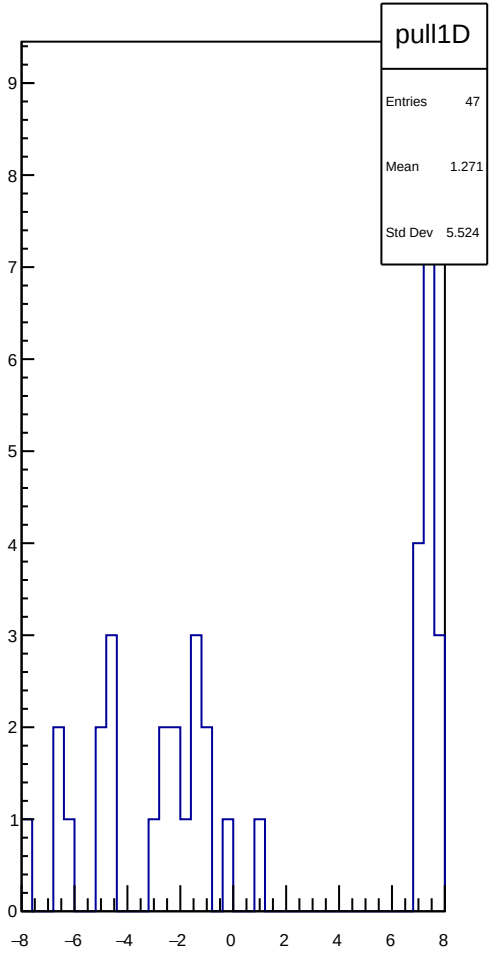

reg_asym_sam_48_dd_mean vs run
χ² / ndf 54.24 / 46
p0 618.5 ± 1418
40000
20000
0
−20000
−40000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 41.8
Std Dev 54.85
4
3
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.01712
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

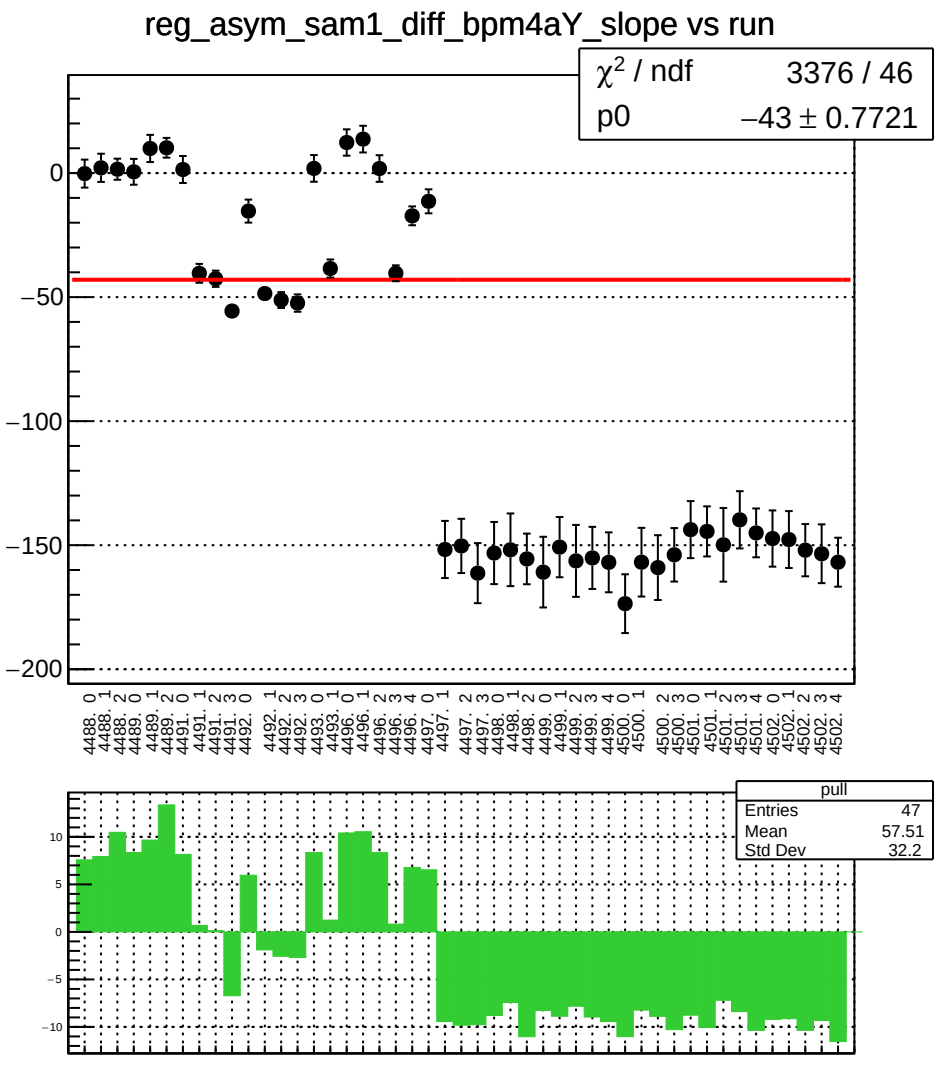

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4521 / 46
p0 983.1 ± 1.003
1200
1150
1100
1050
1000
950
900
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

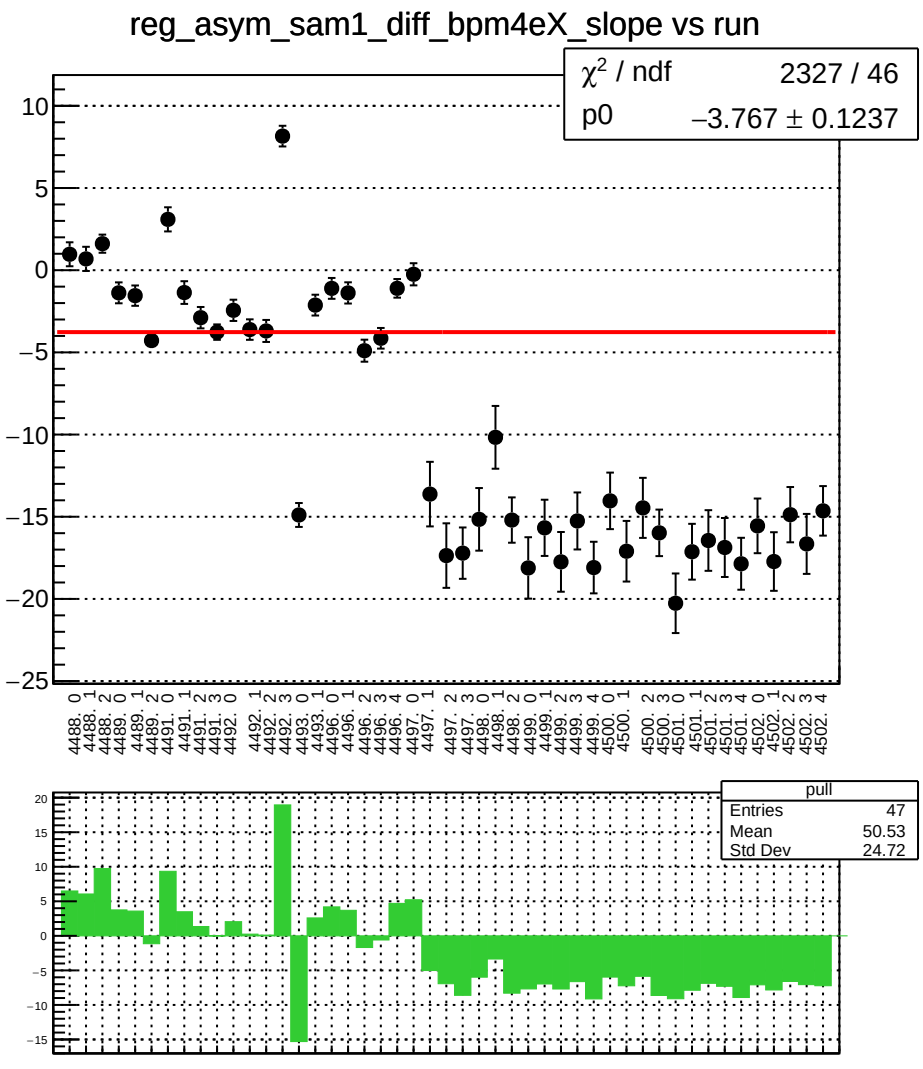

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 27.91 / 46
p0 −1464 ± 5035
100
50
0
−50
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 229
Std Dev 194.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean −0.003299
Std Dev 0.7707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

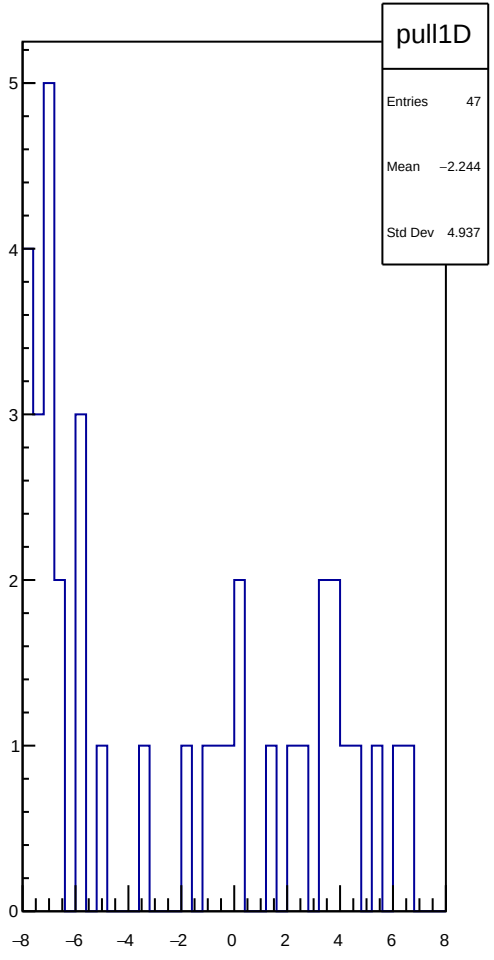

asym_sam_48_dd_correction_rms vs run
χ² / ndf 8731 / 46
p0 3482 ± 3.561
4400
4200
4000
3800
3600
3400
3200
3000
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4

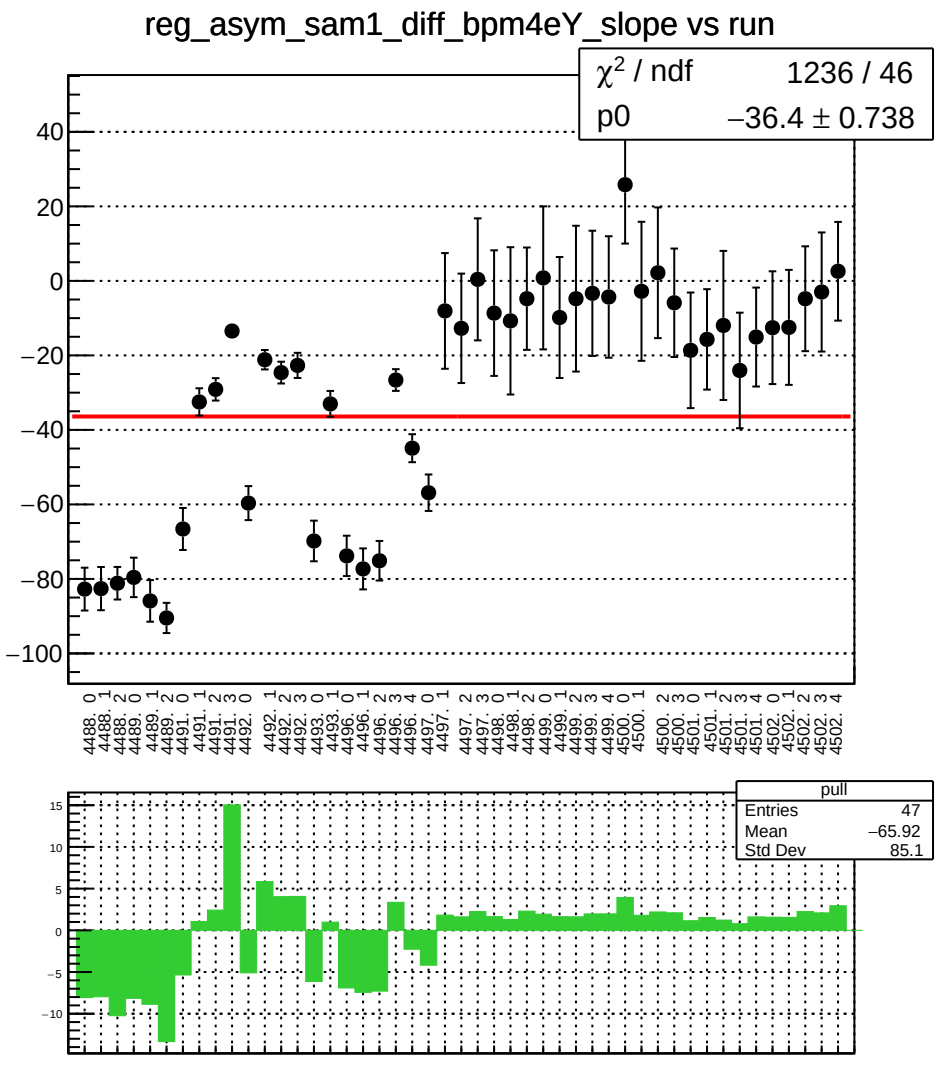

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 1924 / 46
p0 −96.22 ± 0.7192
pull
Entries 47
Mean 47.27
Std Dev 19.88

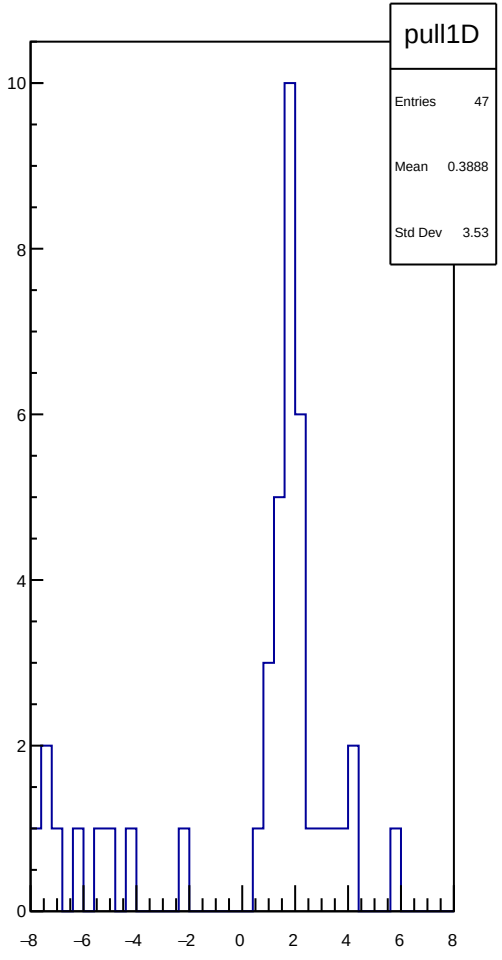

pull1D
Entries 47
Mean 1.271
Std Dev 5.524

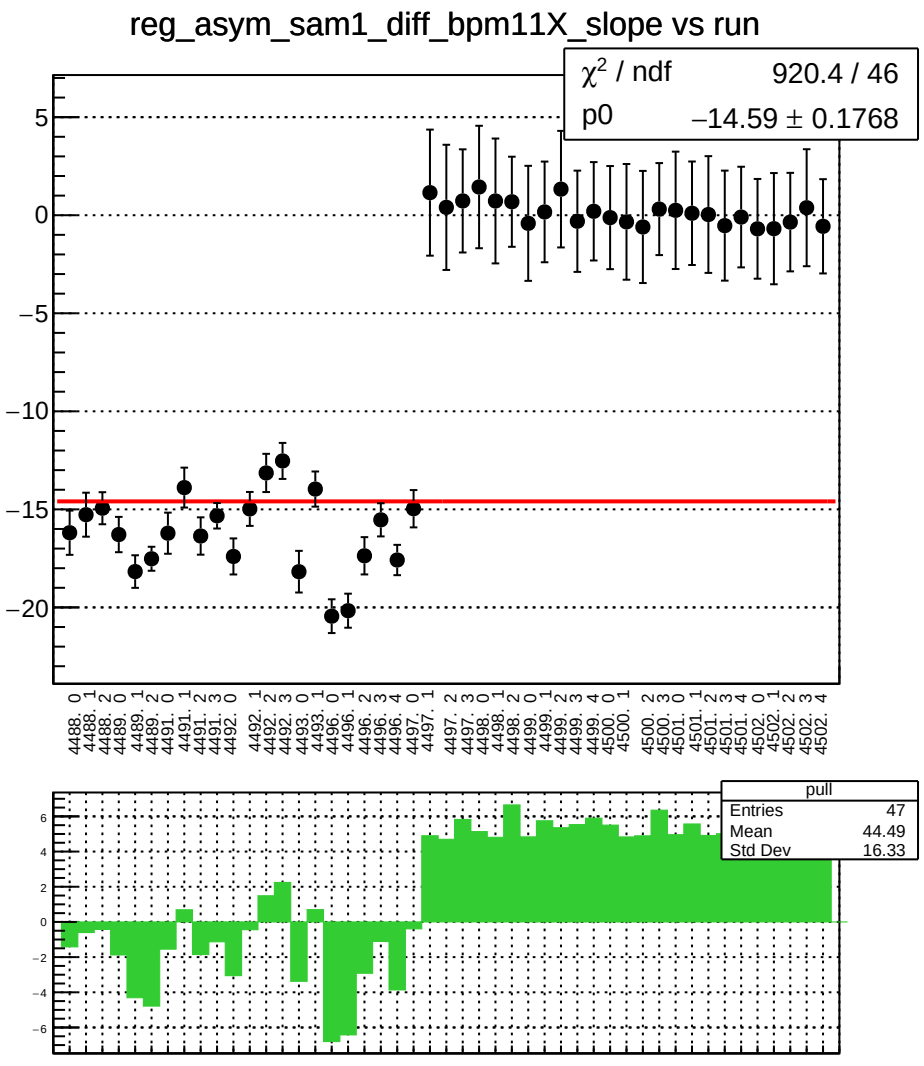

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 3376 / 46
p0 −43 ± 0.7721
0
−50
−100
−150
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 57.51
Std Dev 32.2
10
5
0
−5
−10
pull1D
Entries 47
Mean 0.08363
Std Dev 5.464
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

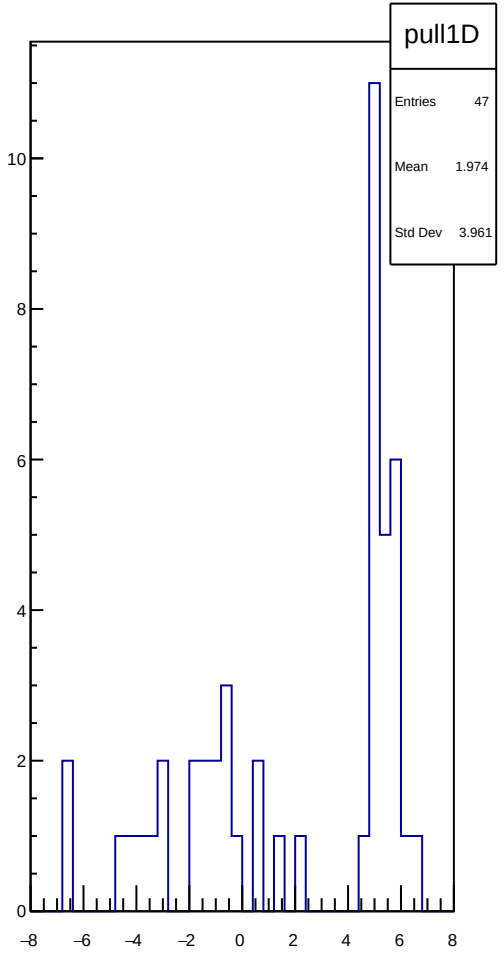

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 2327 / 46
p0 −3.767 ± 0.1237
pull
Entries 47
Mean 50.53
Std Dev 24.72

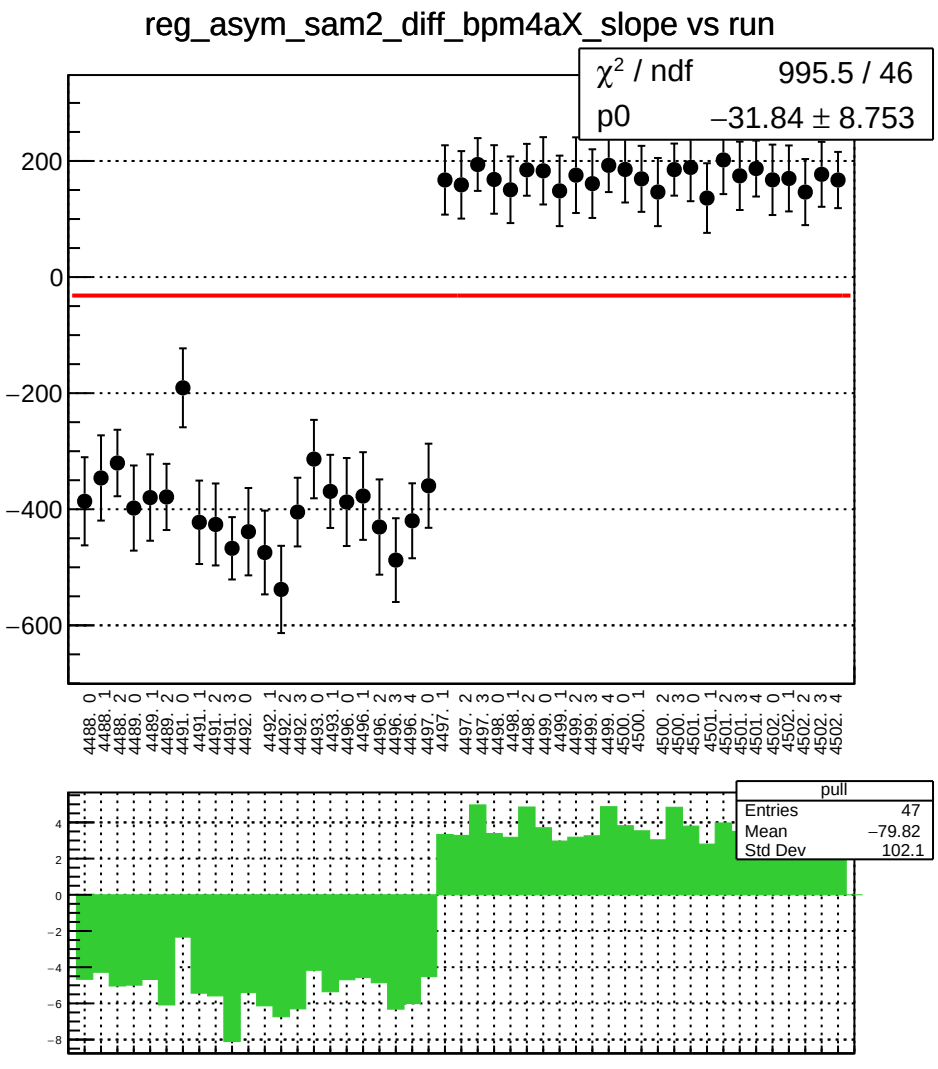

pull1D
Entries 47
Mean −2.244
Std Dev 4.937

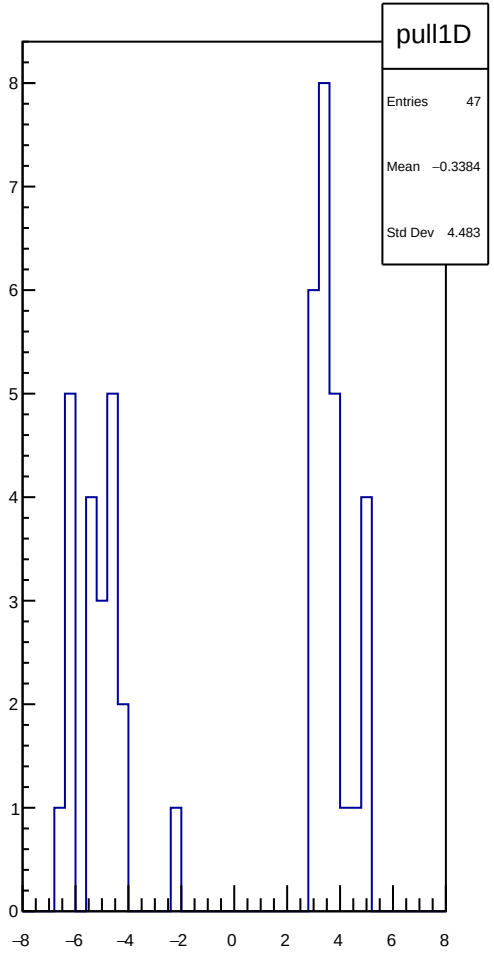

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 1236 / 46
p0 −36.4 ± 0.738
pull
Entries 47
Mean −65.92
Std Dev 85.1

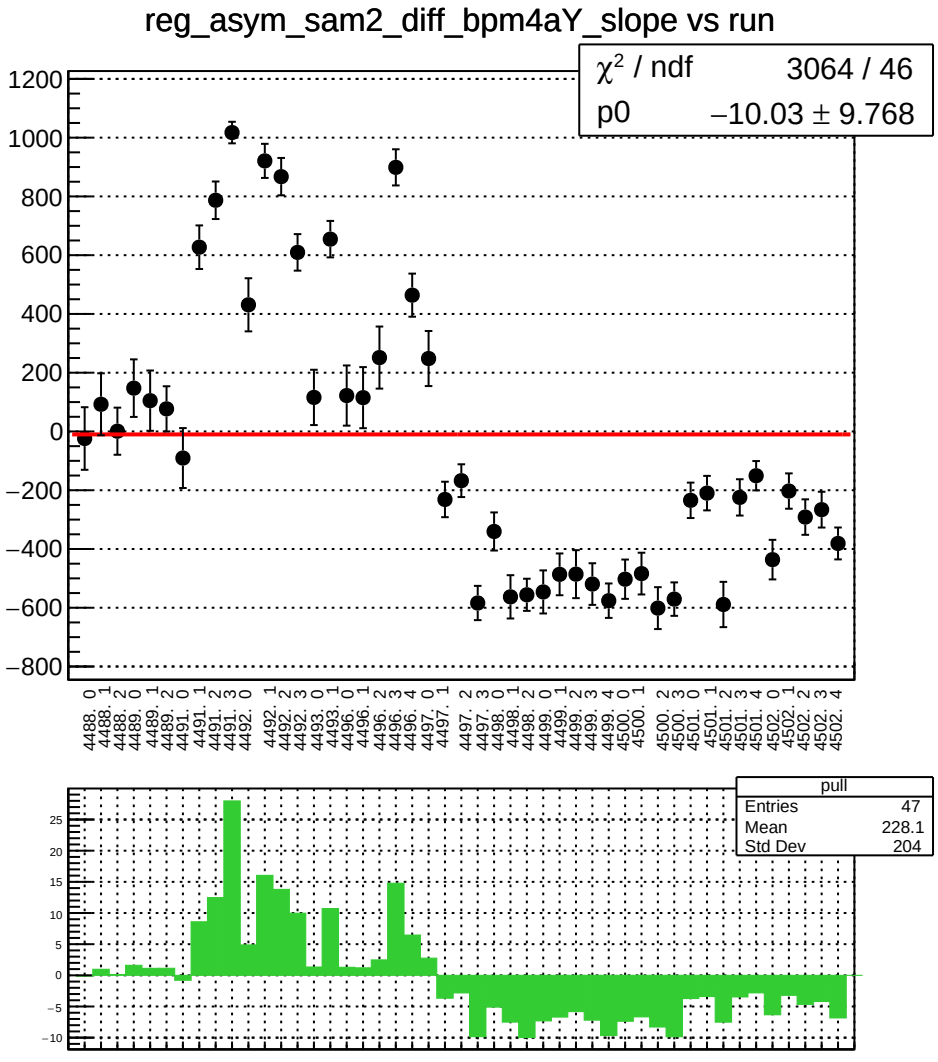

pull1D
Entries 47
Mean 0.3888
Std Dev 3.53

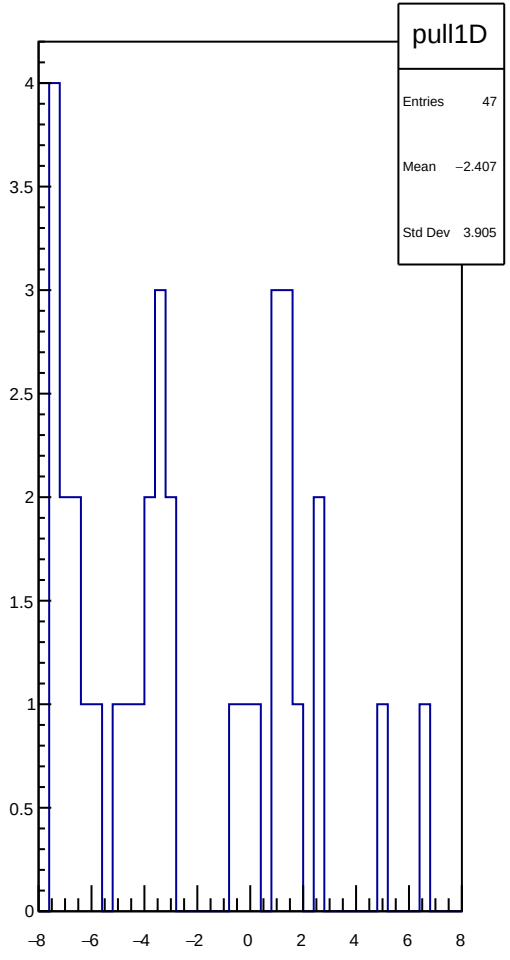

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 920.4 / 46
p0 −14.59 ± 0.1768
pull
Entries 47
Mean 44.49
Std Dev 16.33

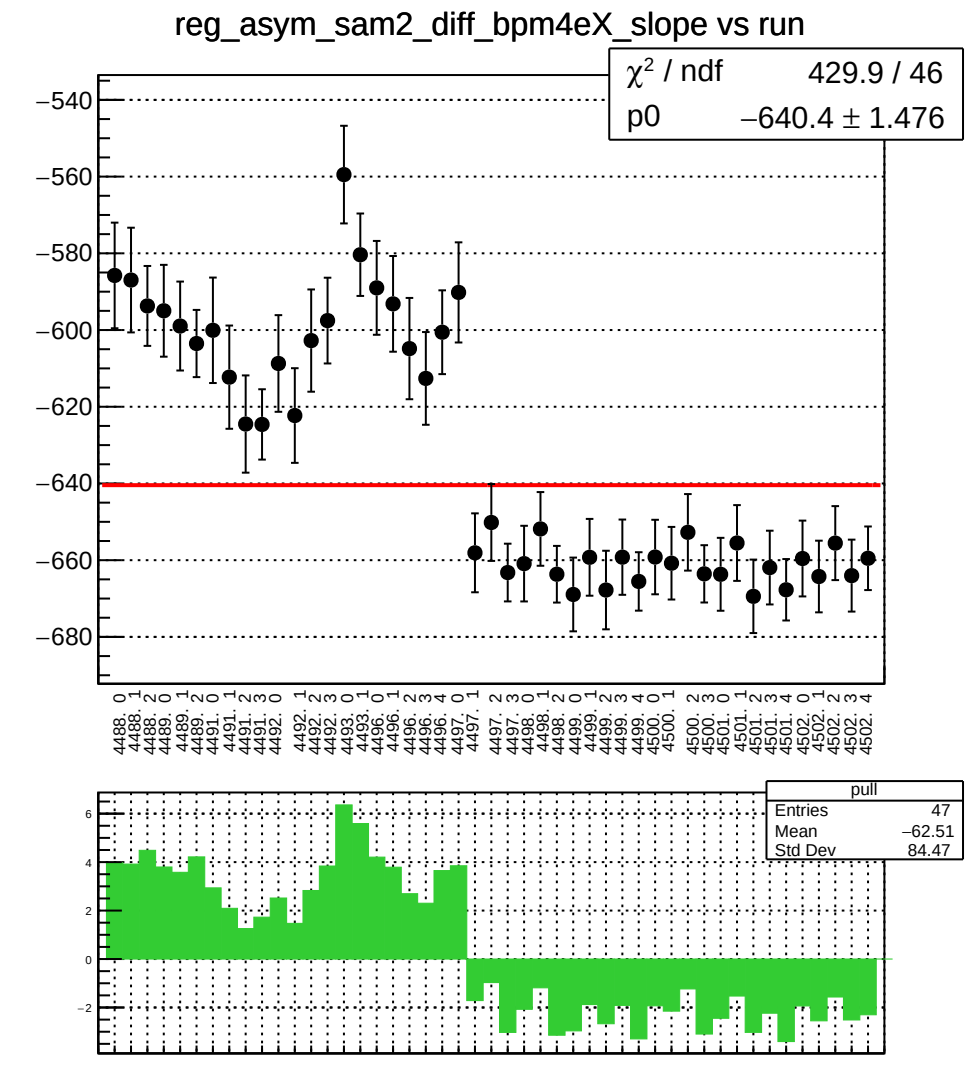

pull1D
Entries 47
Mean 1.974
Std Dev 3.961

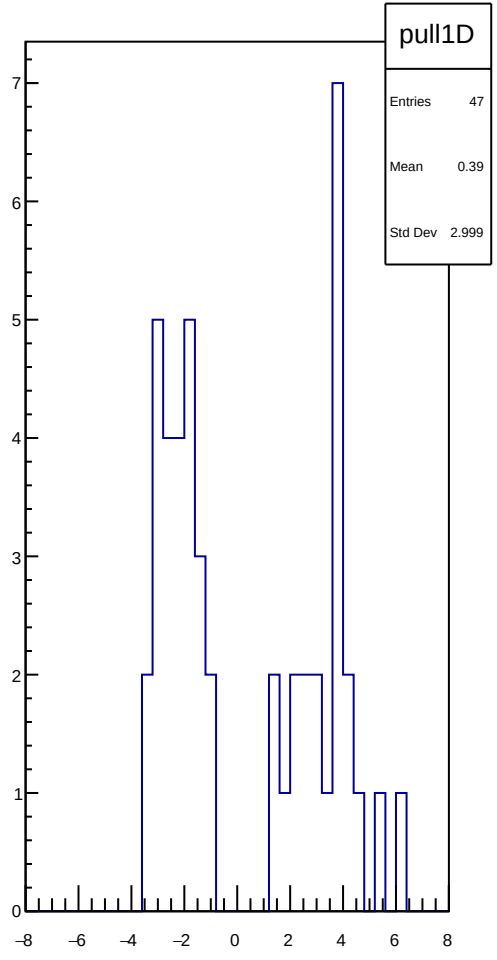

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 995.5 / 46
p0 −31.84 ± 8.753
200
0
−200
−400
−600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −79.82
Std Dev 102.1
4
2
0
−2
−4
−6
−8

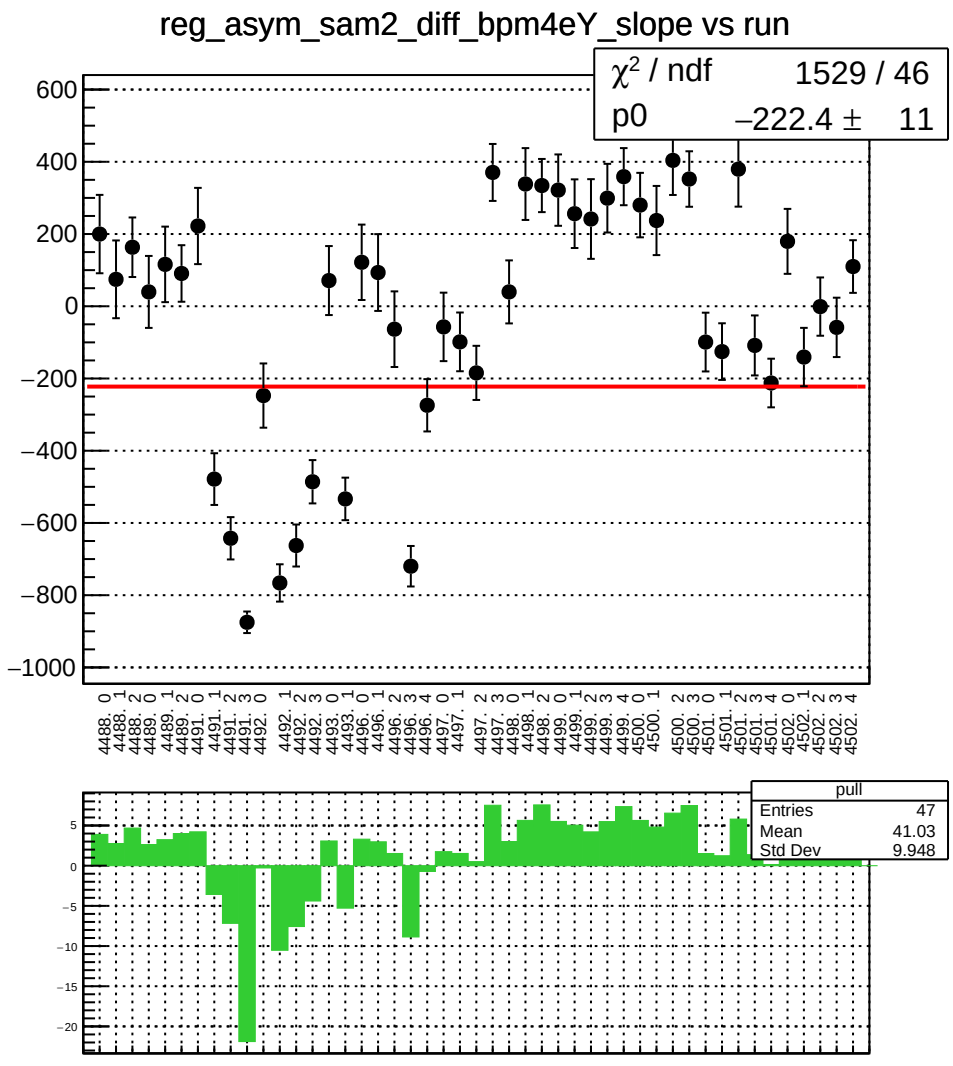

pull1D
Entries 47
Mean −0.3384
Std Dev 4.483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

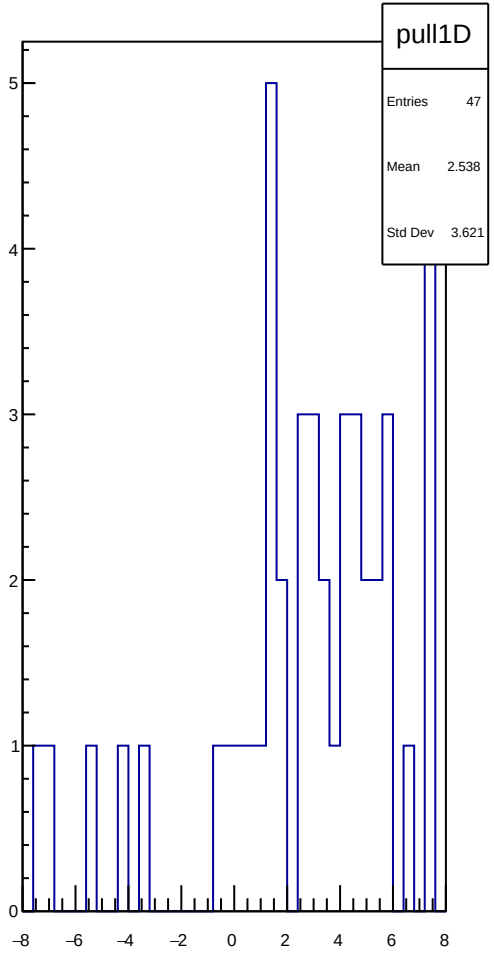

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3064 / 46
p0 −10.03 ± 9.768
pull
Entries 47
Mean 228.1
Std Dev 204

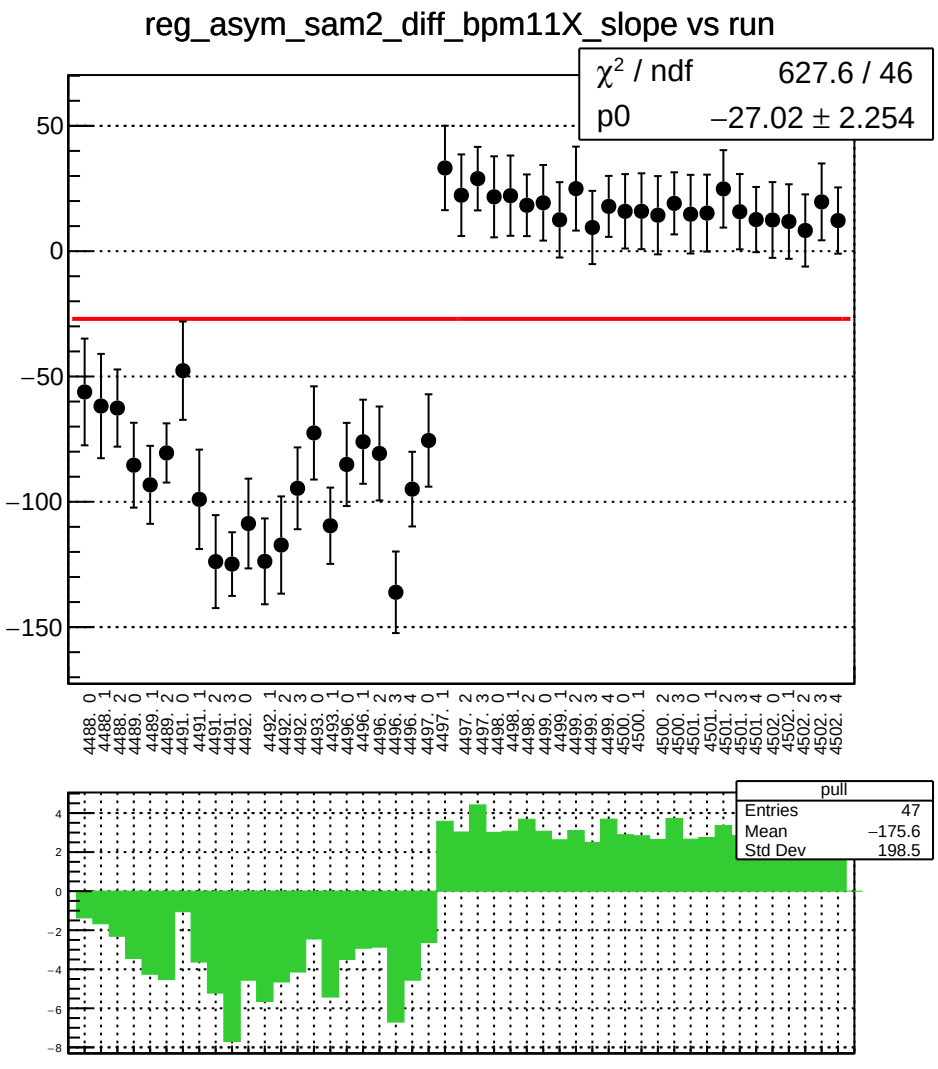

pull1D
Entries 47
Mean −2.407
Std Dev 3.905

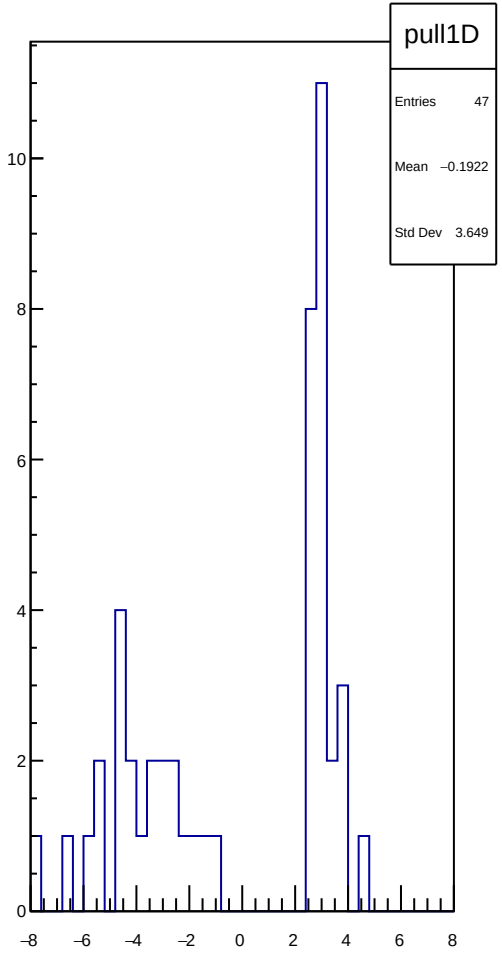

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 429.9 / 46
p0 −640.4 ± 1.476
pull
Entries 47
Mean −62.51
Std Dev 84.47

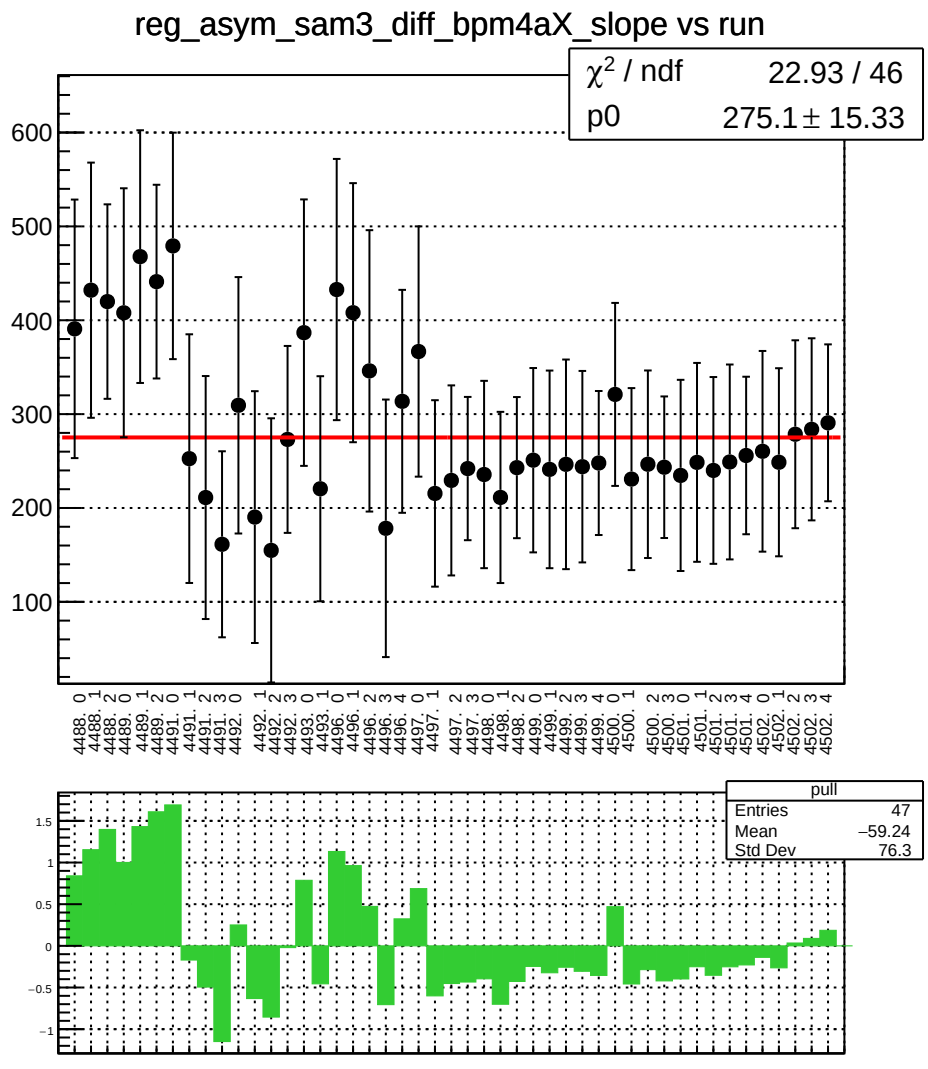

pull1D
Entries 47
Mean 0.39
Std Dev 2.999

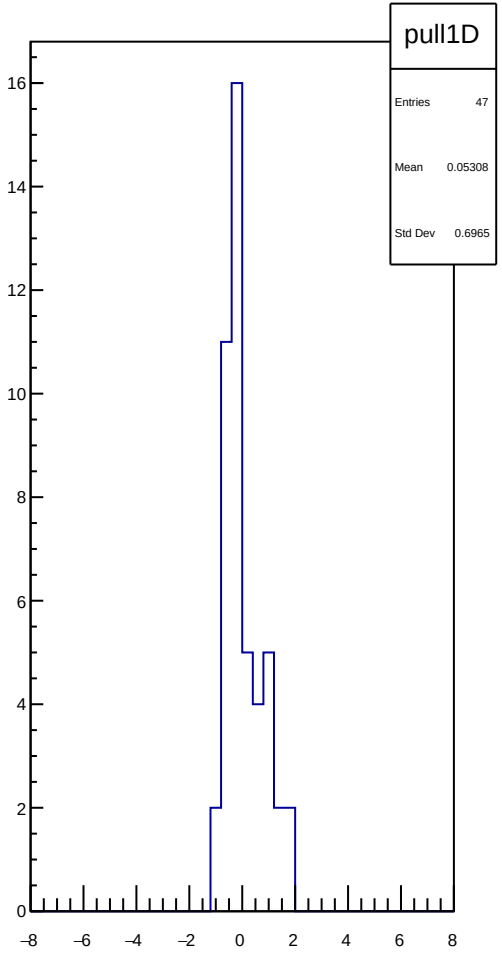

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1529 / 46
p0 −222.4 ± 11
pull
Entries 47
Mean 41.03
Std Dev 9.948

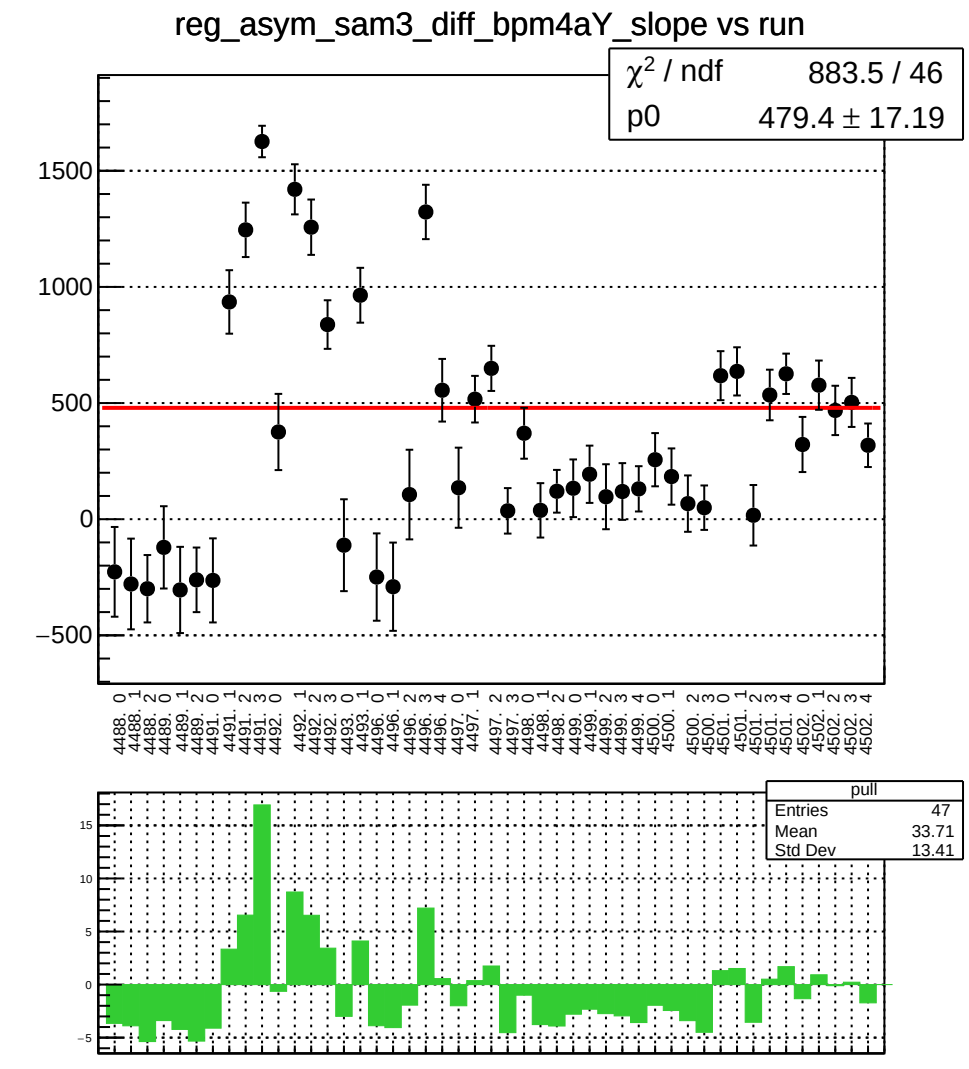

pull1D
Entries 47
Mean 2.538
Std Dev 3.621

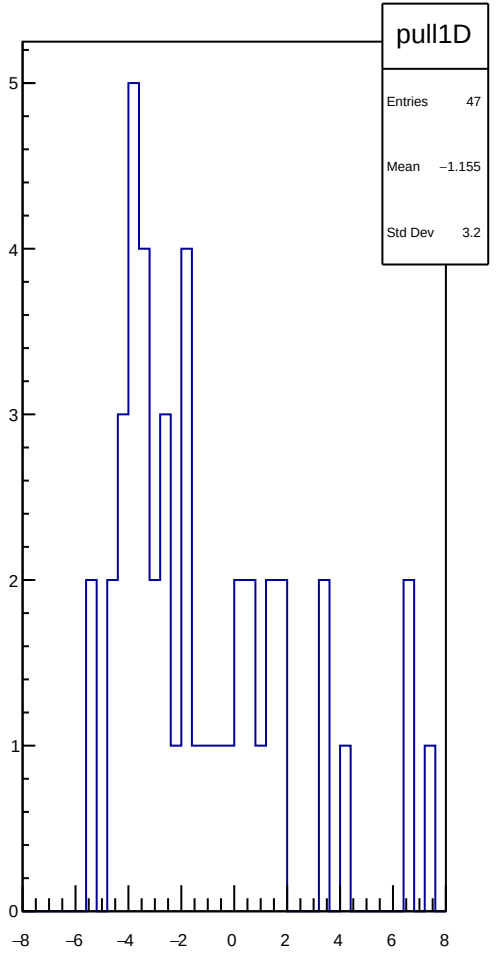

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 627.6 / 46
p0 −27.02 ± 2.254
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −175.6
Std Dev 198.5
4
2
0
−2
−4
−6
−8

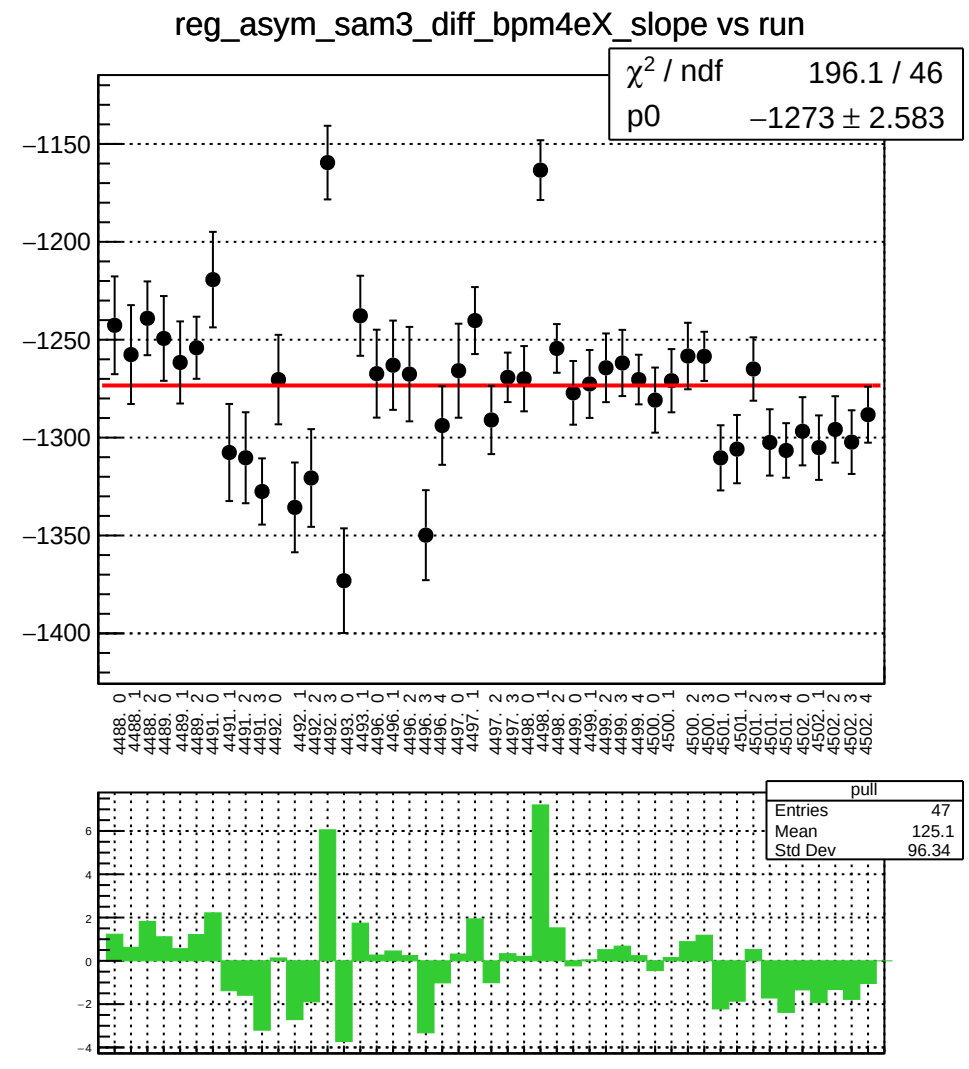

pull1D
Entries 47
Mean −0.1922
Std Dev 3.649
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

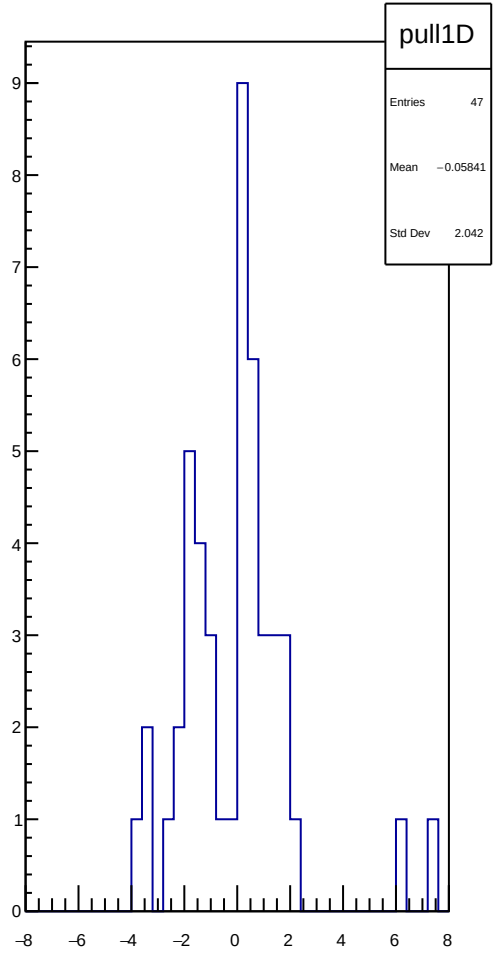

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 22.93 / 46
p0 275.1 ± 15.33
pull
Entries 47
Mean −59.24
Std Dev 76.3

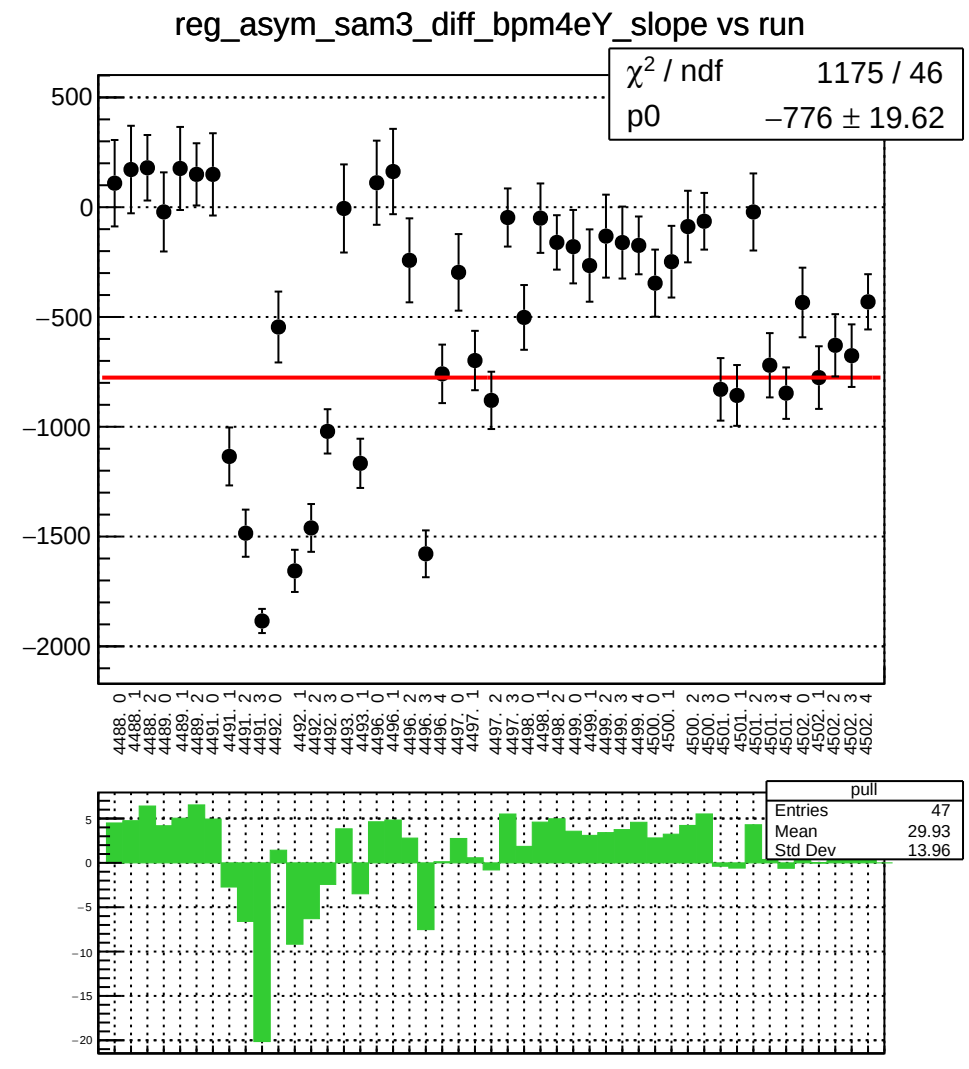

pull1D
Entries 47
Mean 0.05308
Std Dev 0.6965

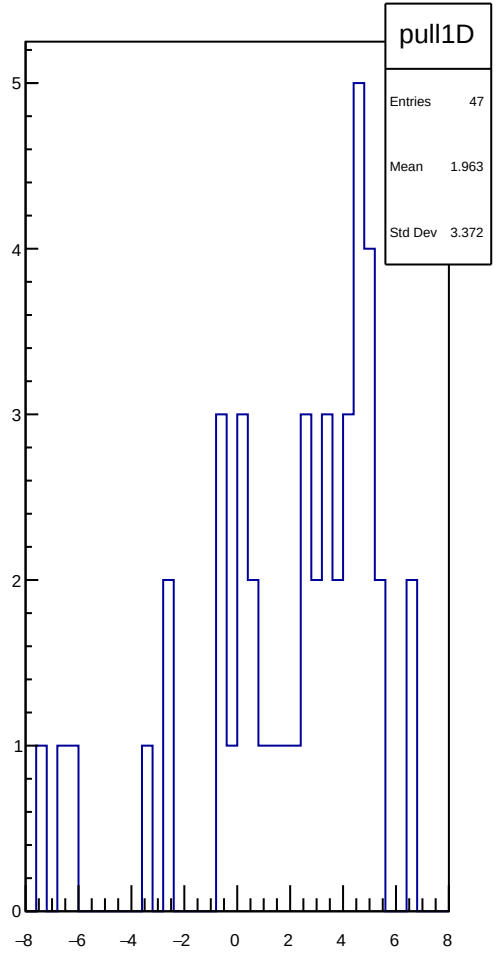

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 883.5 / 46
p0 479.4 ± 17.19
1500
1000
500
0
−500
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 33.71
Std Dev 13.41
15
10
5
0
−5

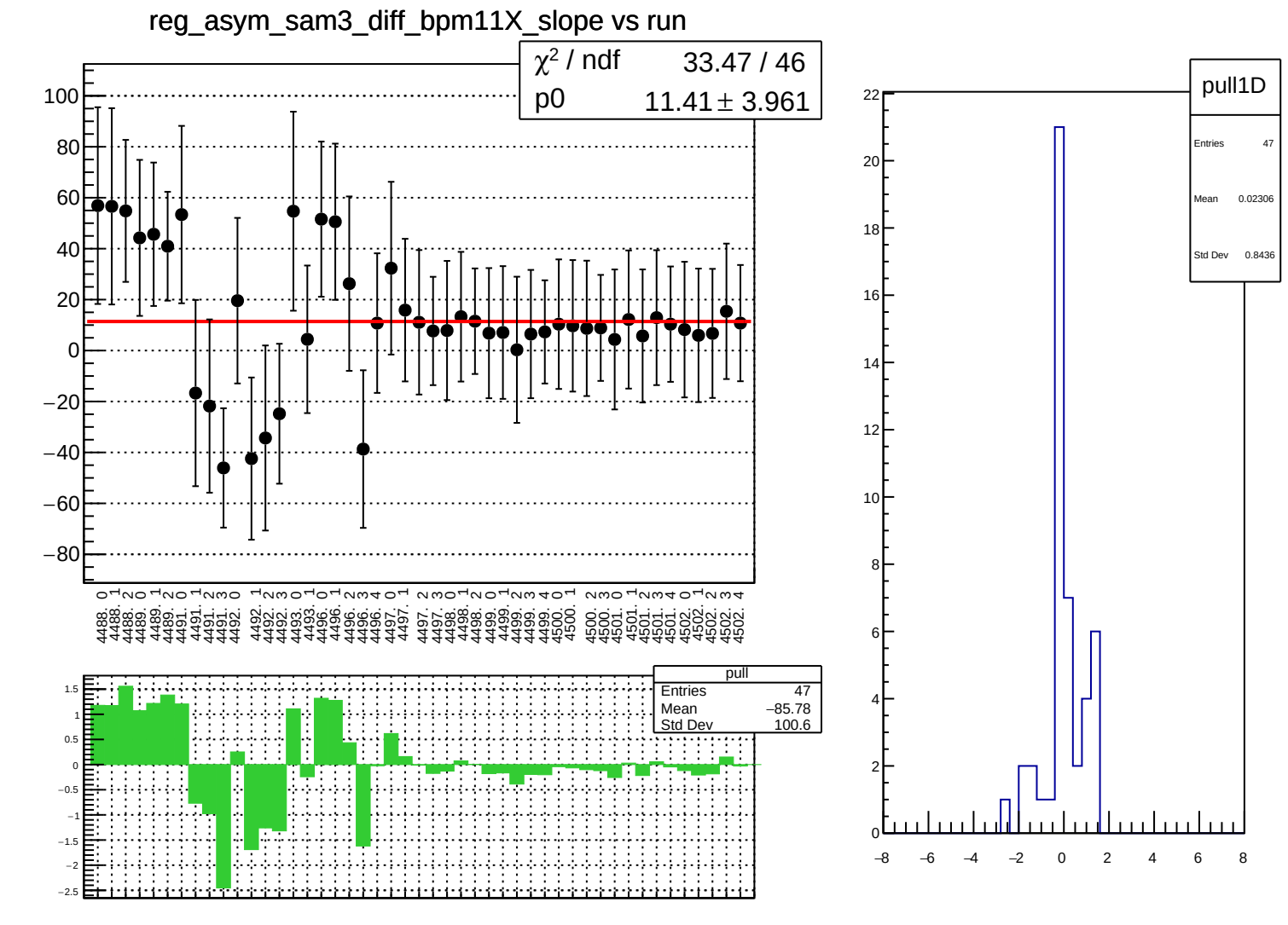

pull1D
Entries 47
Mean −1.155
Std Dev 3.2
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

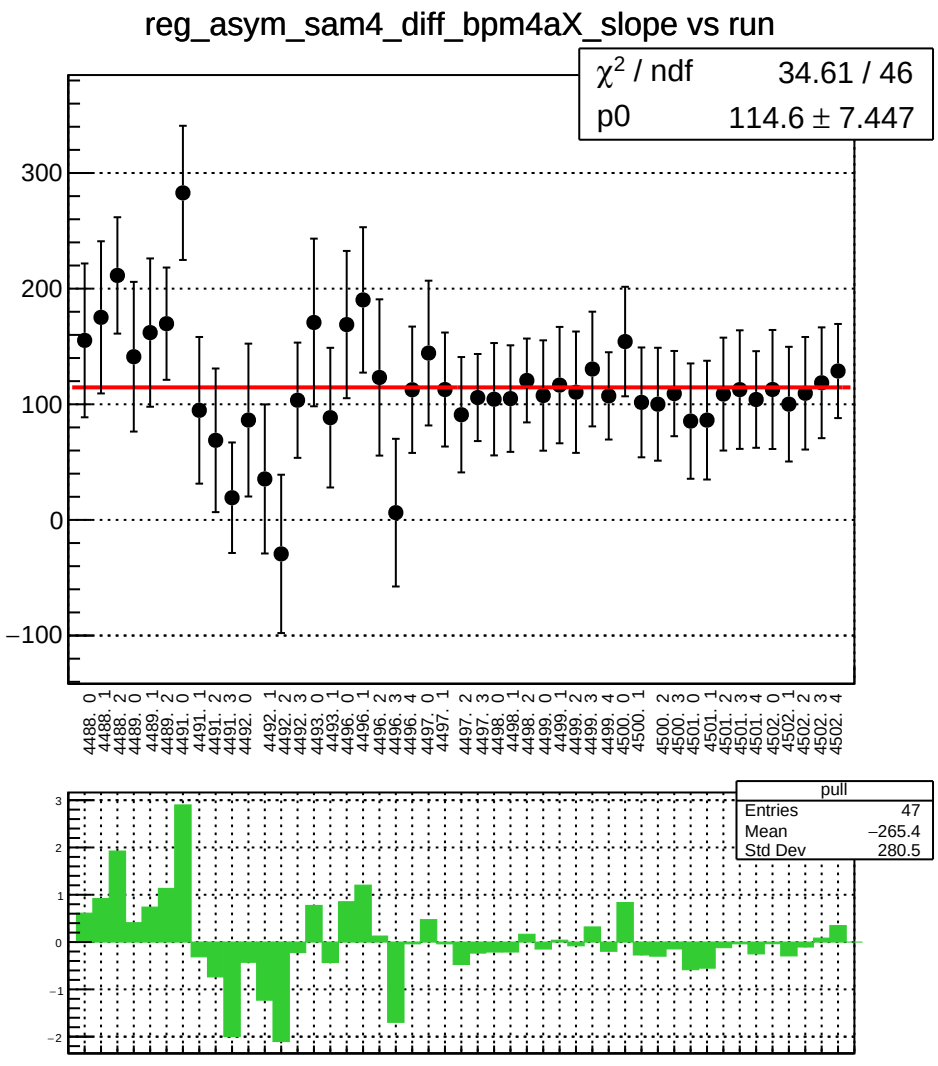

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 196.1 / 46
p0 −1273 ± 2.583
pull
Entries 47
Mean 125.1
Std Dev 96.34

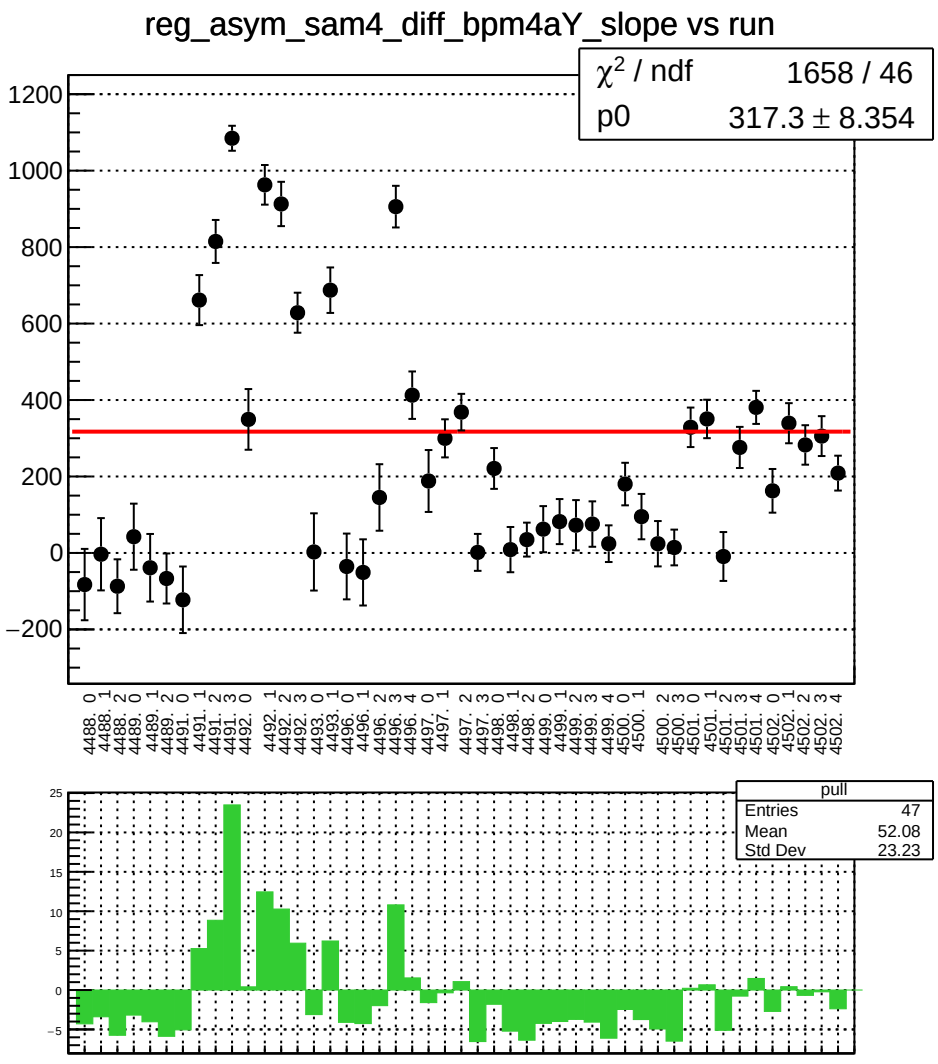

pull1D
Entries 47
Mean −0.05841
Std Dev 2.042

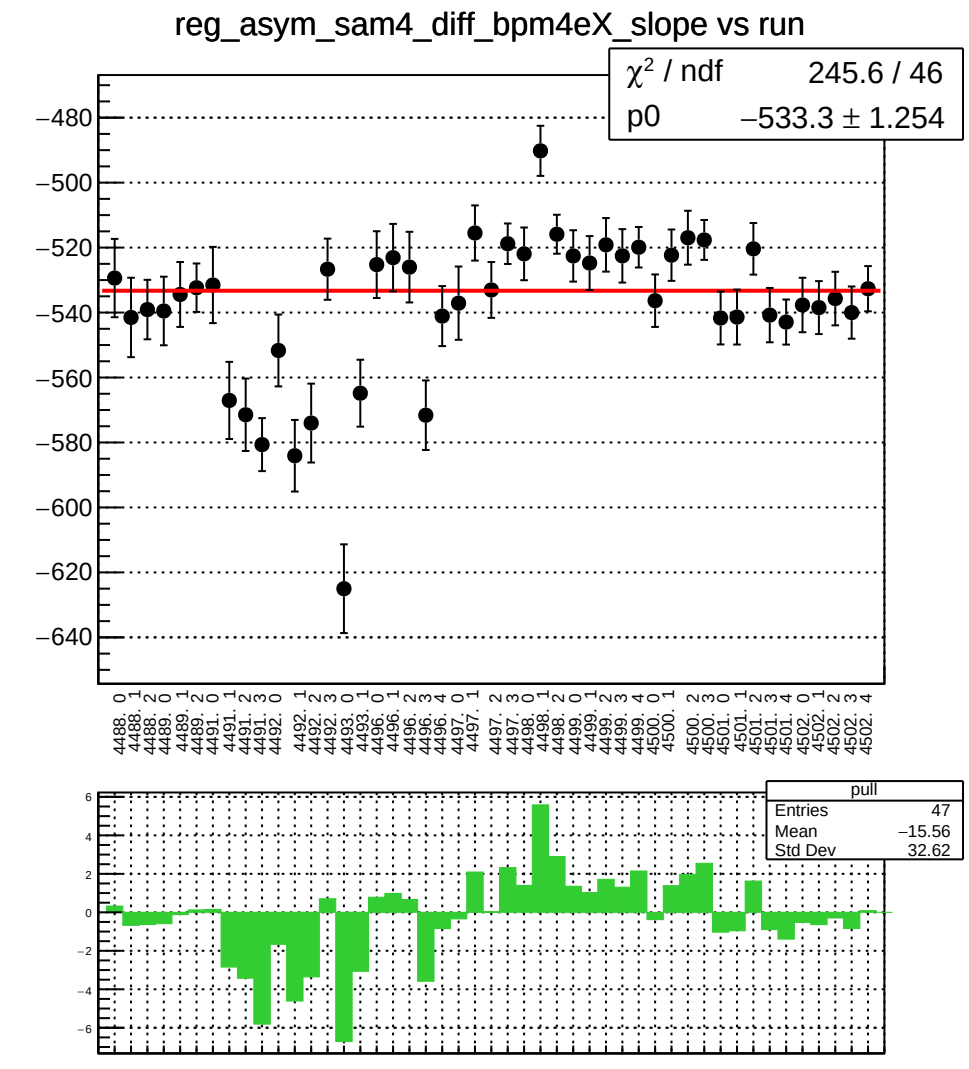

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1175 / 46
p0 −776 ± 19.62
pull
Entries 47
Mean 29.93
Std Dev 13.96

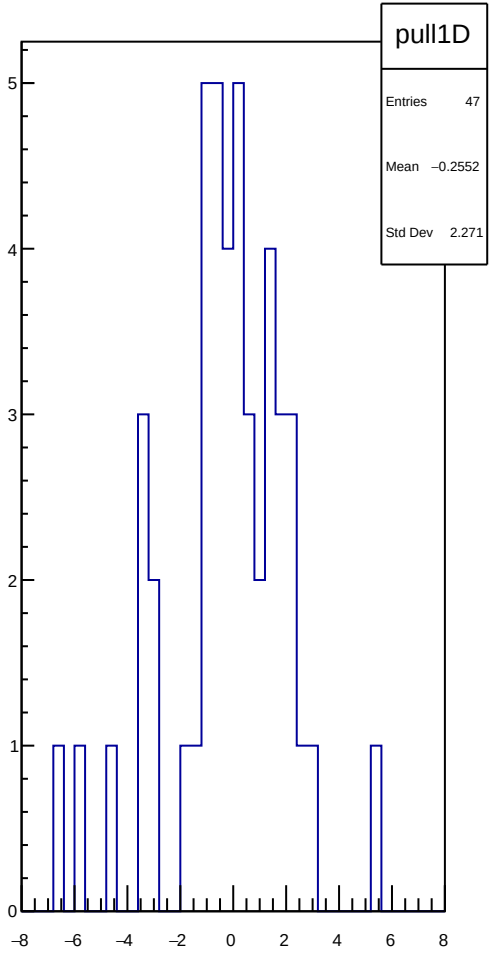

pull1D
Entries 47
Mean 1.963
Std Dev 3.372

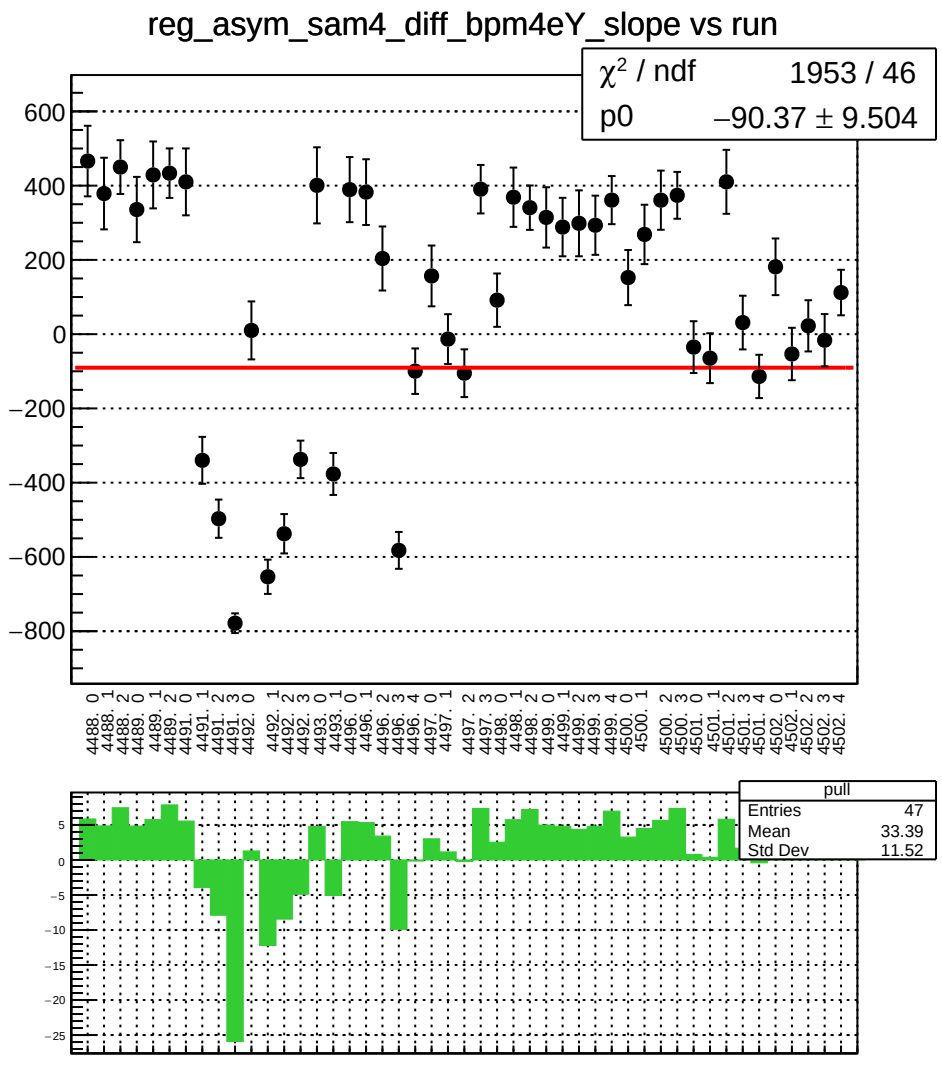

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 33.47 / 46
p0 11.41 ± 3.961
pull
Entries 47
Mean −85.78
Std Dev 100.6
pull1D
Entries 47
Mean 0.02306
Std Dev 0.8436

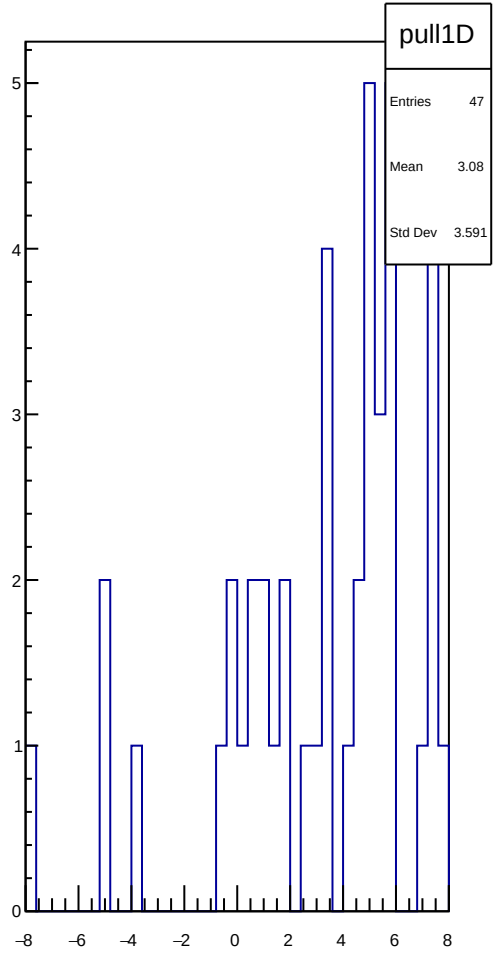

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 34.61 / 46
p0 114.6 ± 7.447
300
200
100
0
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −265.4
Std Dev 280.5
3
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.008226
Std Dev 0.8581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

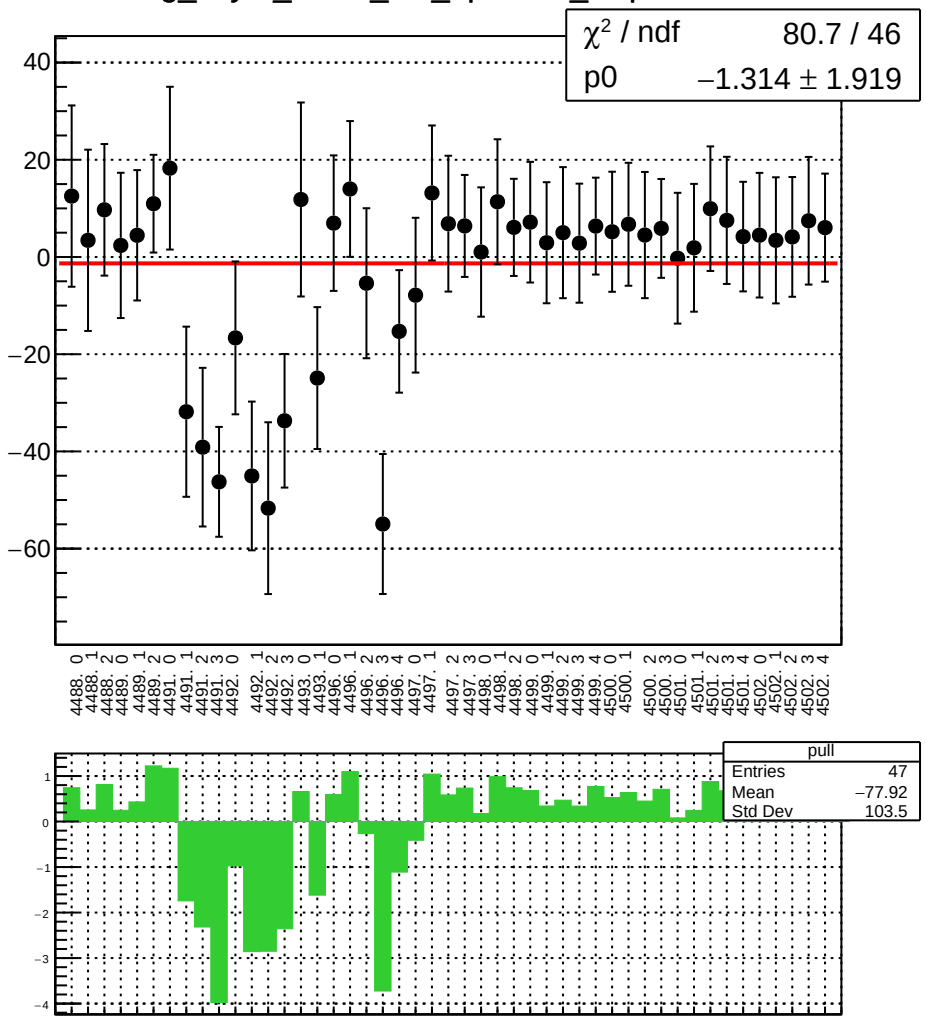

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1658 / 46
p0 317.3 ± 8.354
1200
1000
800
600
400
200
0
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 52.08
Std Dev 23.23
25
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.269
Std Dev 3.216
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

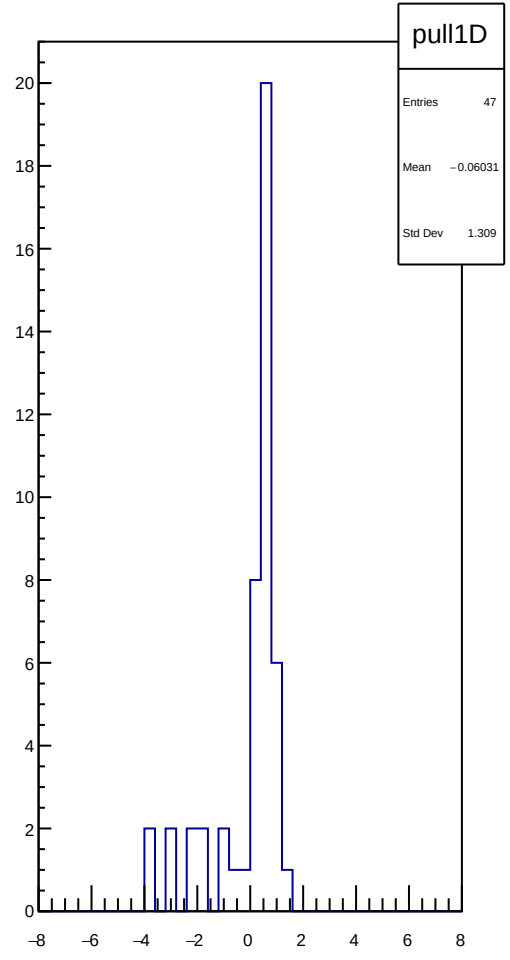

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 245.6 / 46
p0 −533.3 ± 1.254
pull
Entries 47
Mean −15.56
Std Dev 32.62

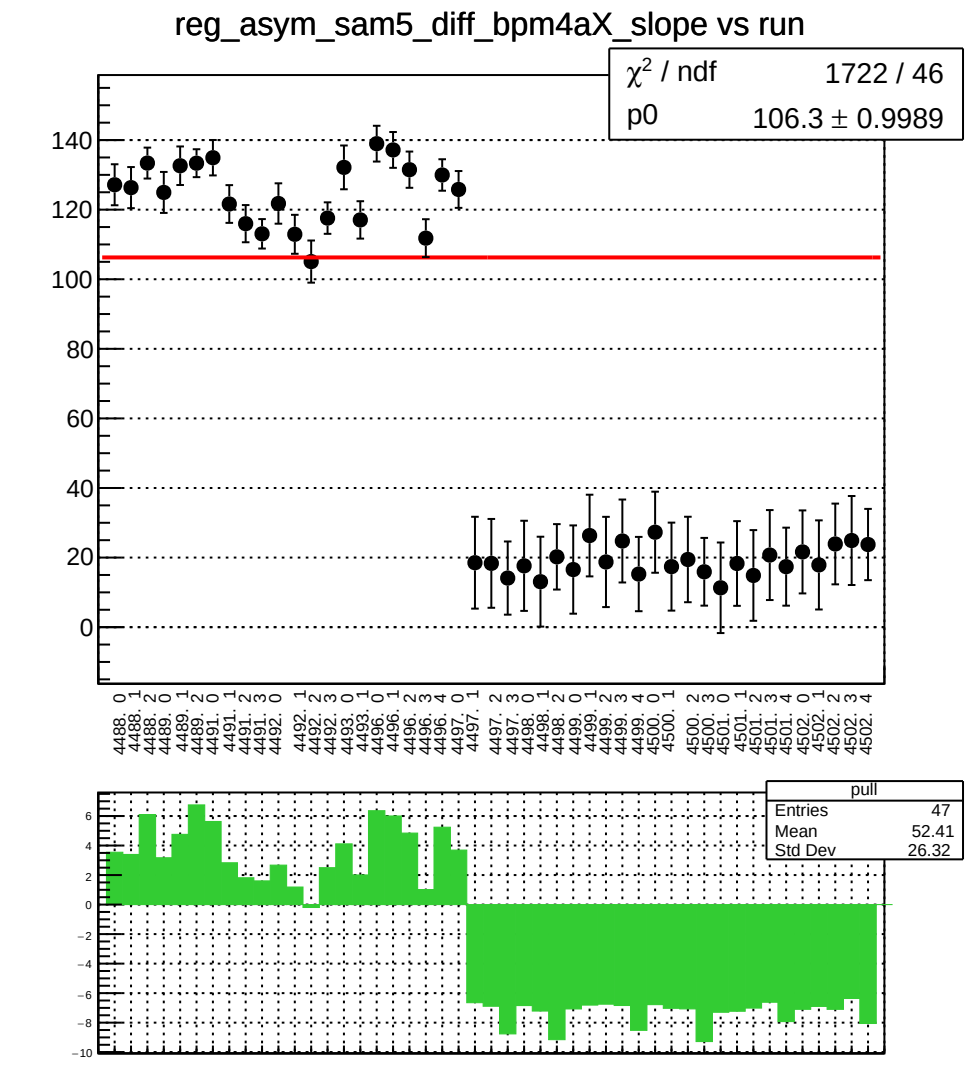

pull1D
Entries 47
Mean −0.2552
Std Dev 2.271

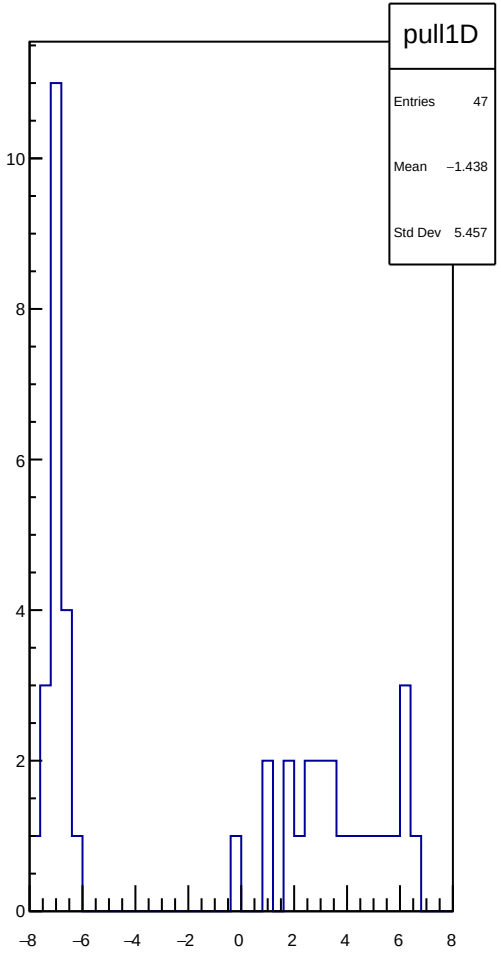

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1953 / 46
p0 −90.37 ± 9.504
pull
Entries 47
Mean 33.39
Std Dev 11.52

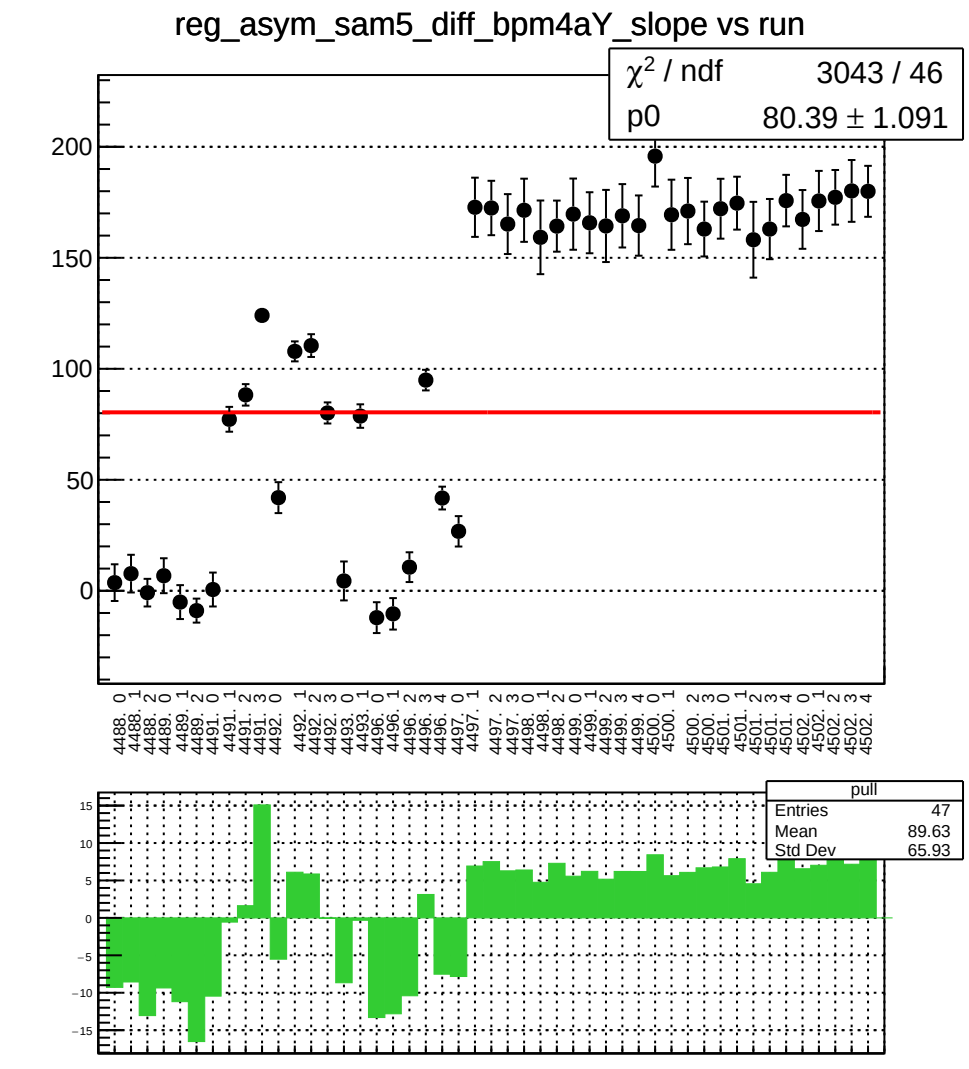

pull1D
Entries 47
Mean 3.08
Std Dev 3.591

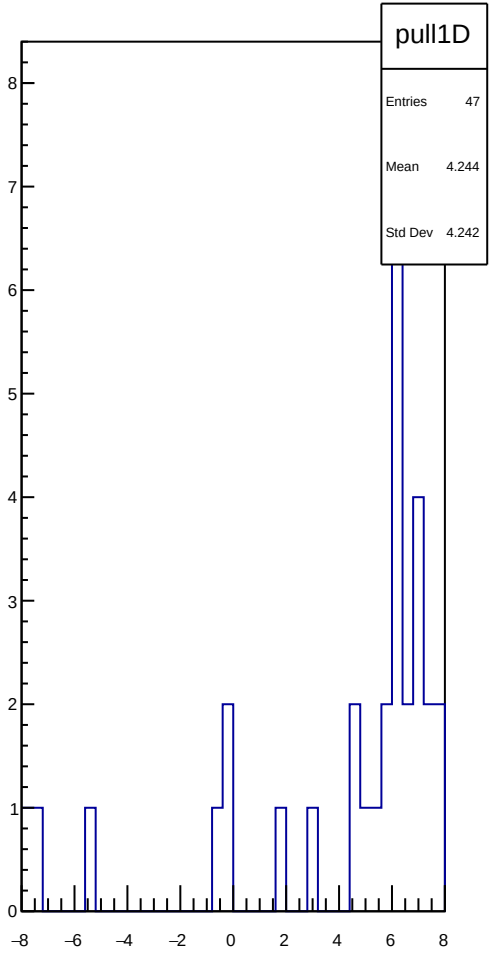

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 80.7 / 46
p0 −1.314 ± 1.919
pull
Entries 47
Mean −77.92
Std Dev 103.5

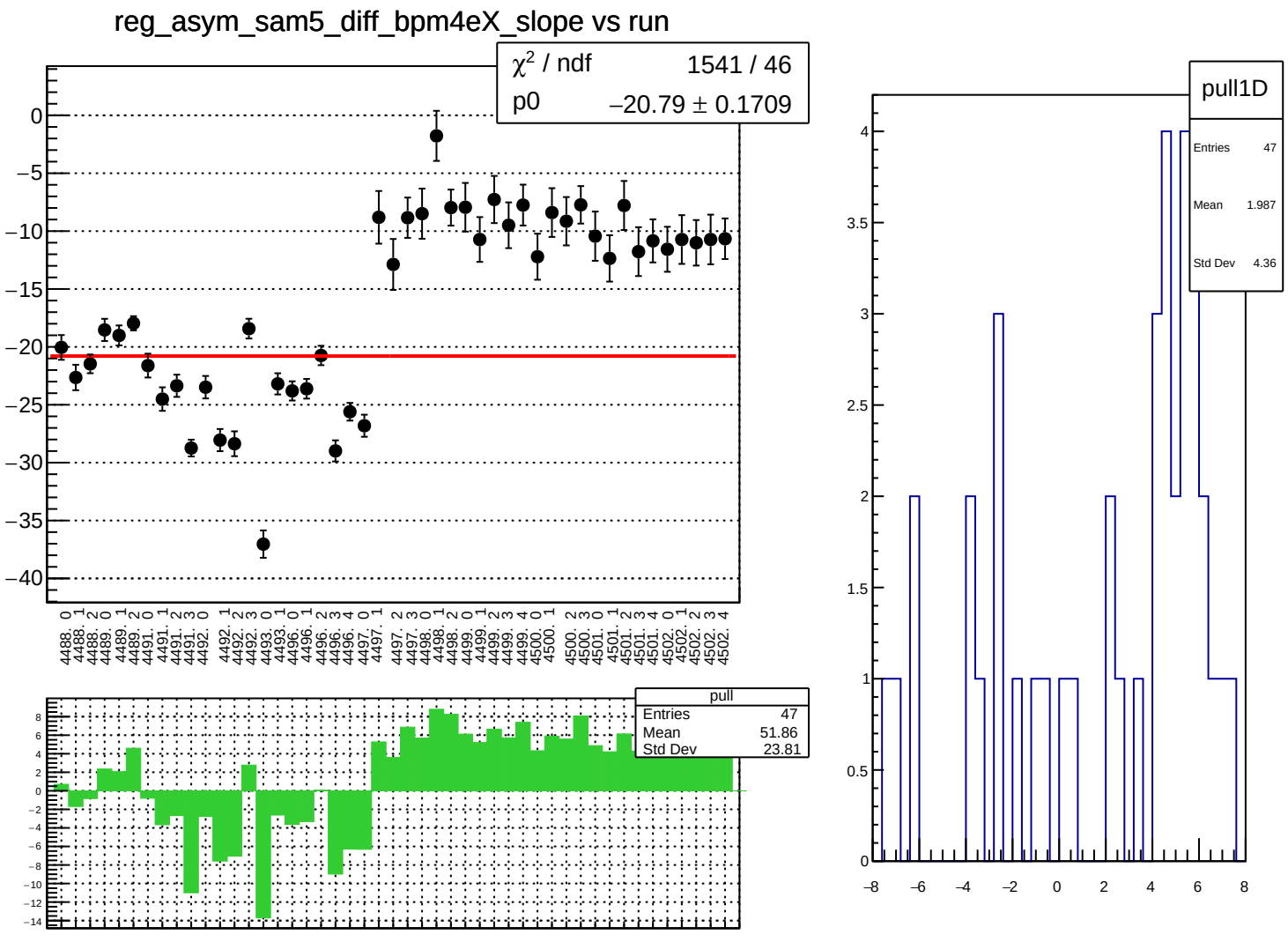

pull1D
Entries 47
Mean −0.06031
Std Dev 1.309

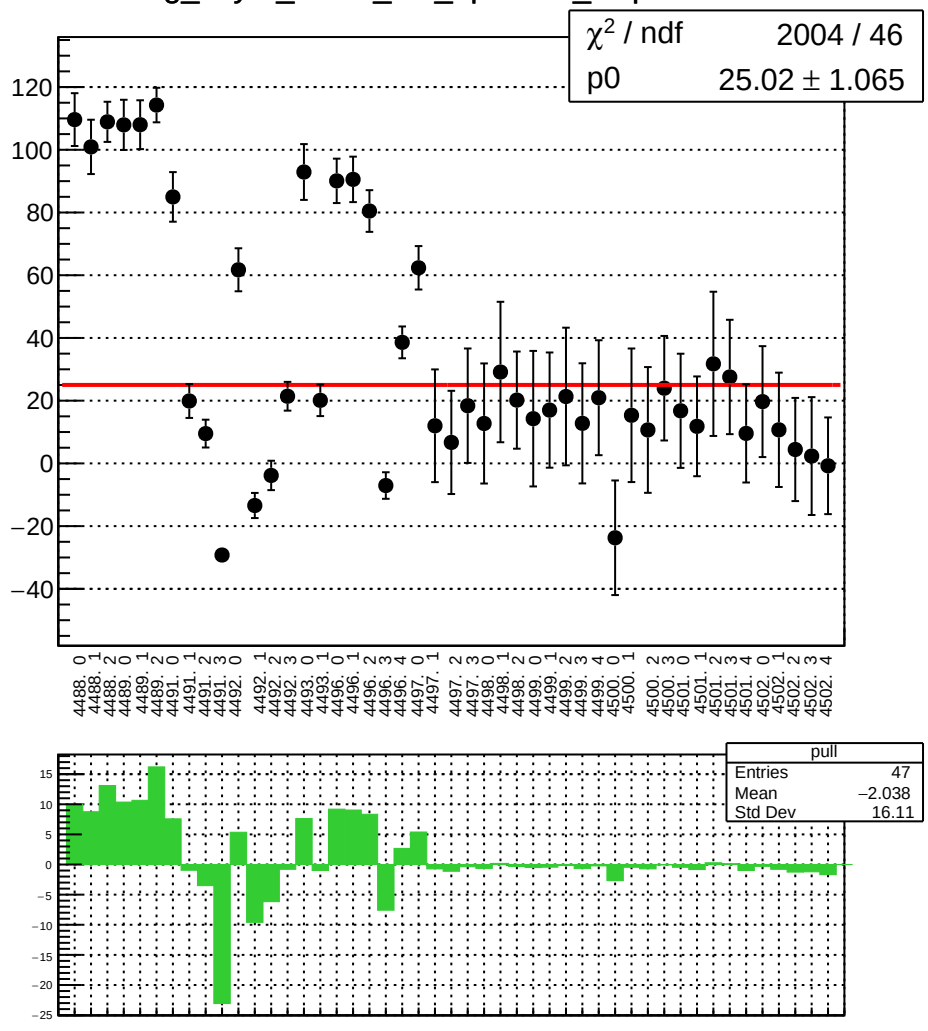

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 1722 / 46
p0 106.3 ± 0.9989
pull
Entries 47
Mean 52.41
Std Dev 26.32

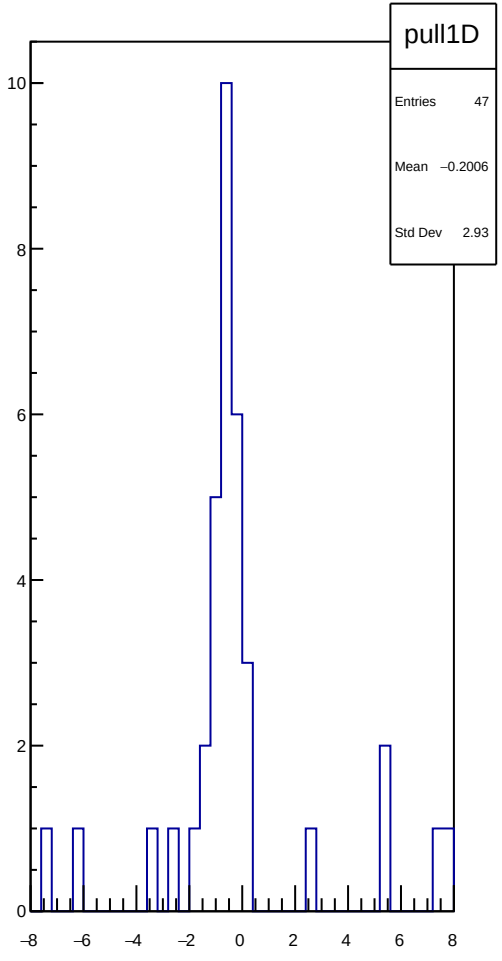

pull1D
Entries 47
Mean −1.438
Std Dev 5.457

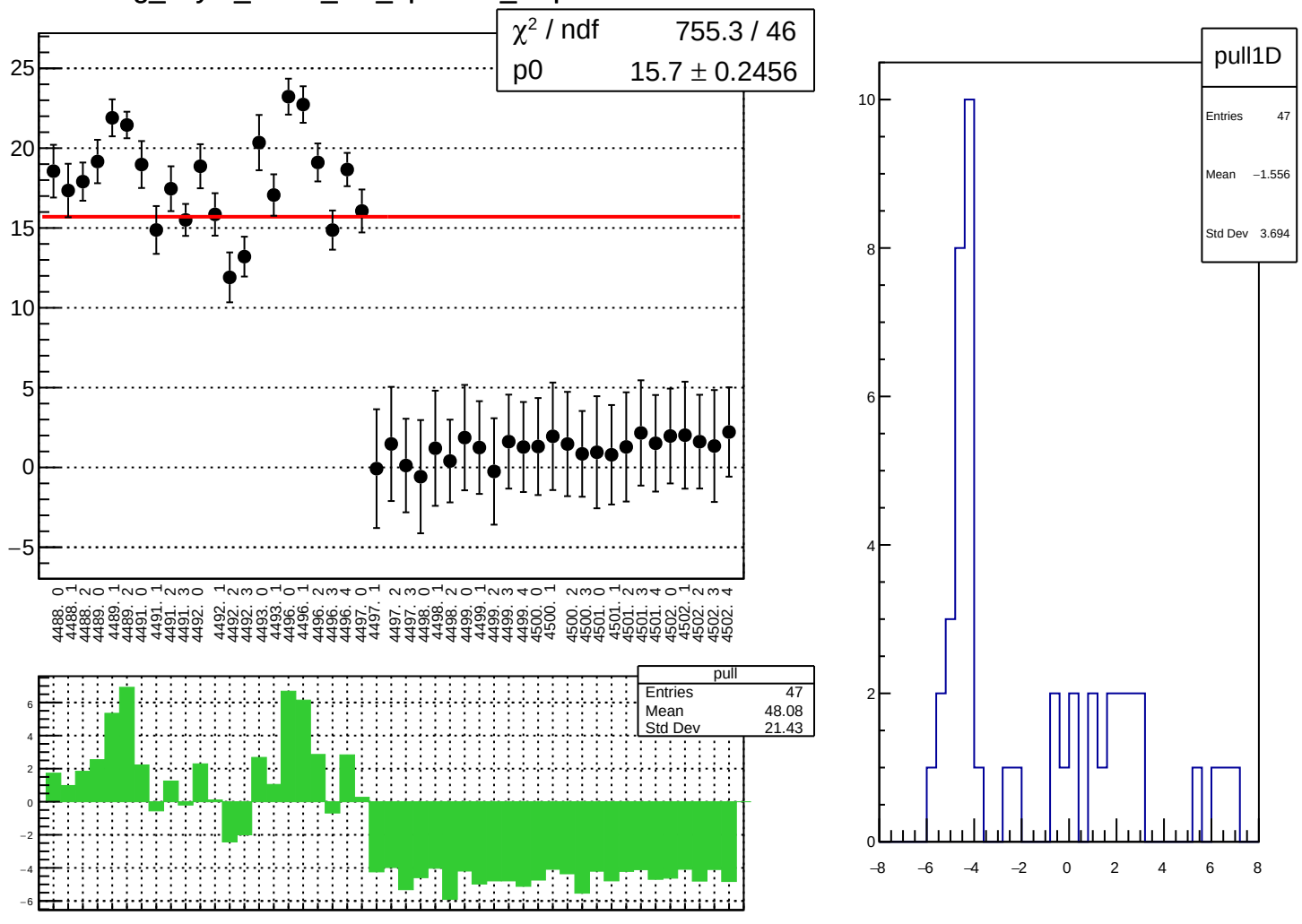

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3043 / 46
p0 80.39 ± 1.091
200
150
100
50
0
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 89.63
Std Dev 65.93
15
10
5
0
−5
−10
−15

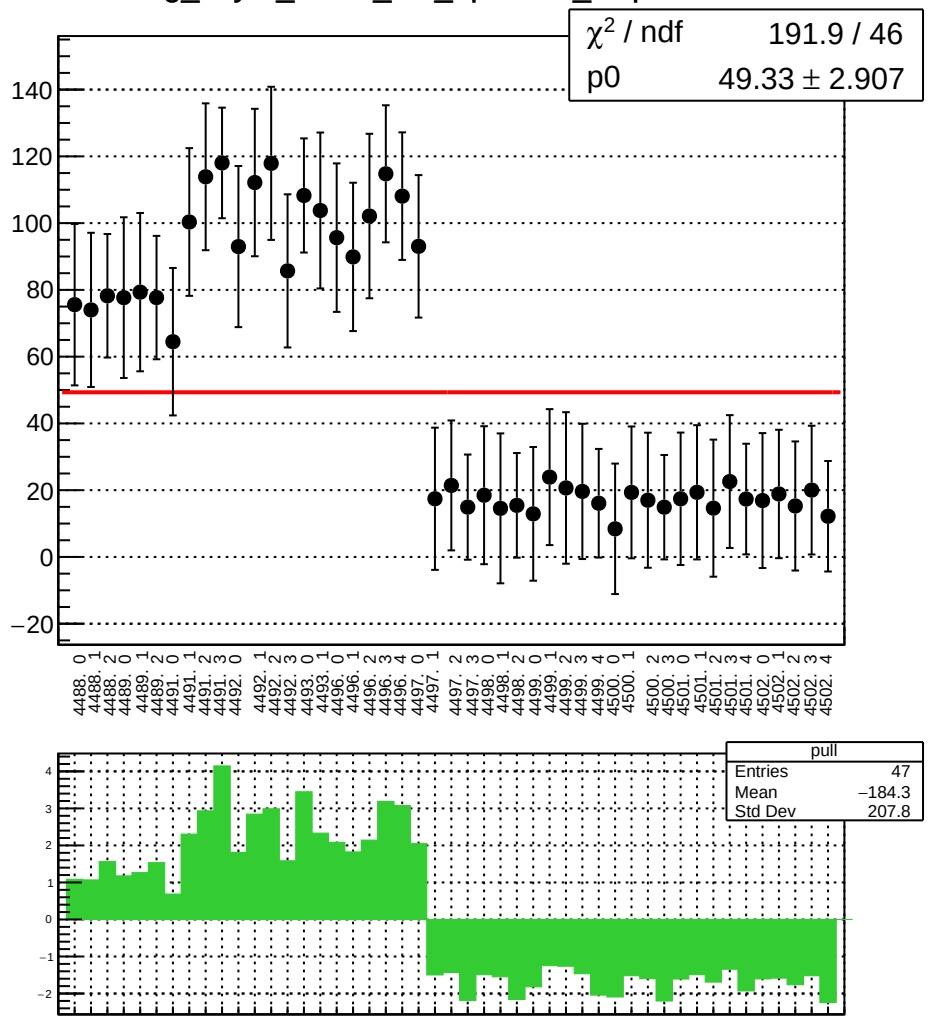

pull1D
Entries 47
Mean 4.244
Std Dev 4.242
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

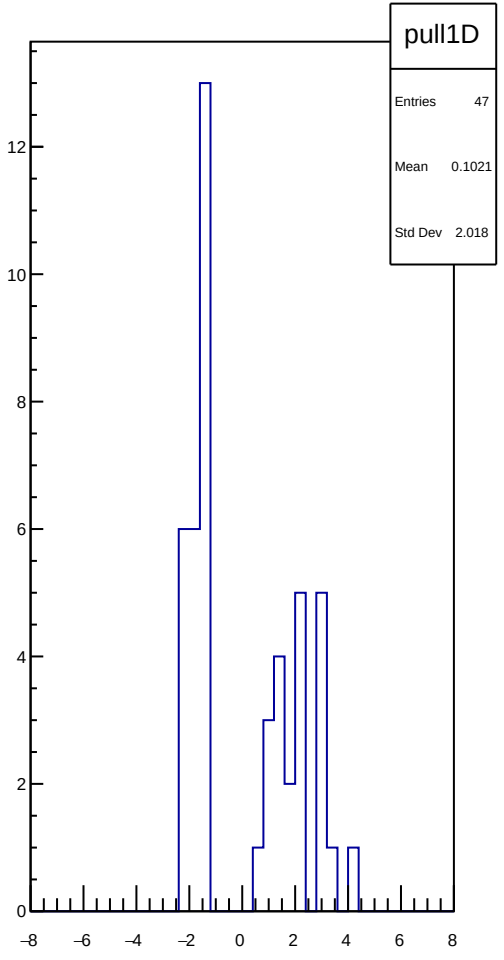

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1541 / 46
p0 −20.79 ± 0.1709
pull
Entries 47
Mean 51.86
Std Dev 23.81
pull1D
Entries 47
Mean 1.987
Std Dev 4.36

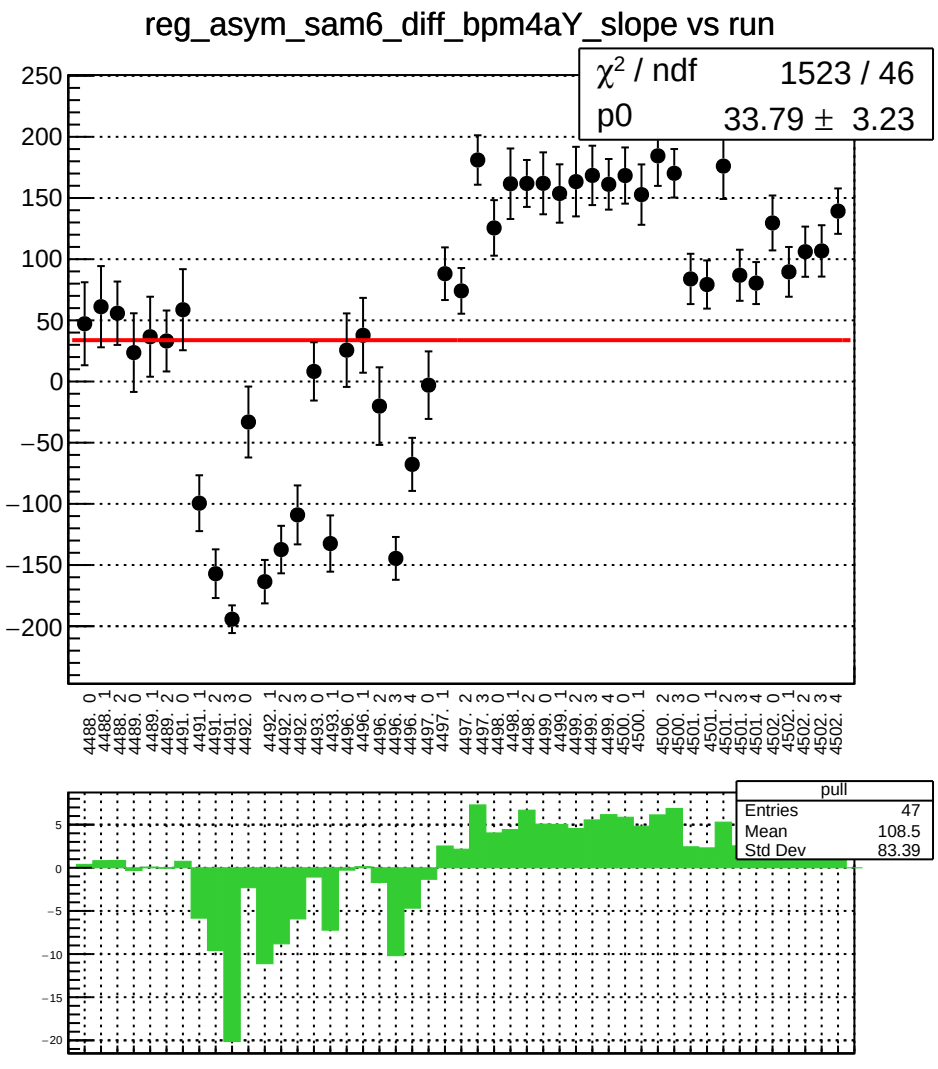

reg_asym_sam5_diff_bpm4eY_slope vs run
χ^2 / ndf 2004 / 46
p0 25.02 ± 1.065
pull
Entries 47
Mean −2.038
Std Dev 16.11

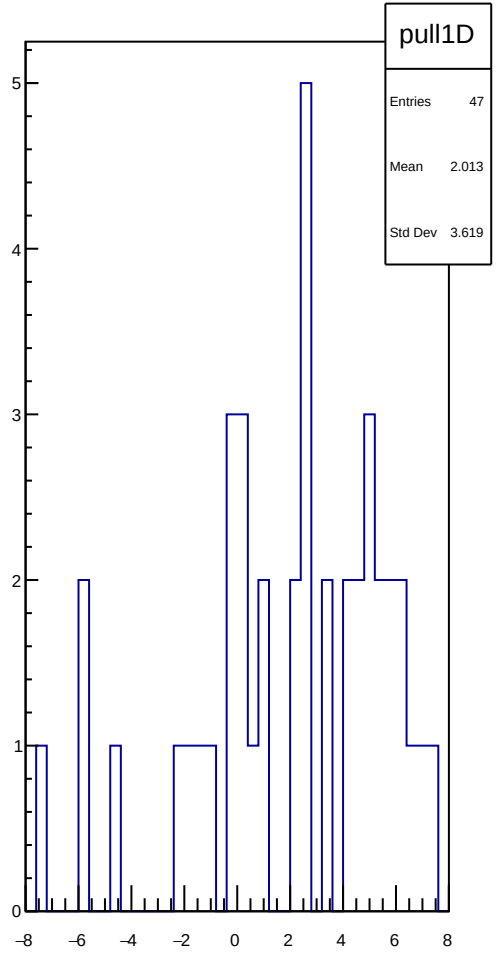

pull1D
Entries 47
Mean −0.2006
Std Dev 2.93

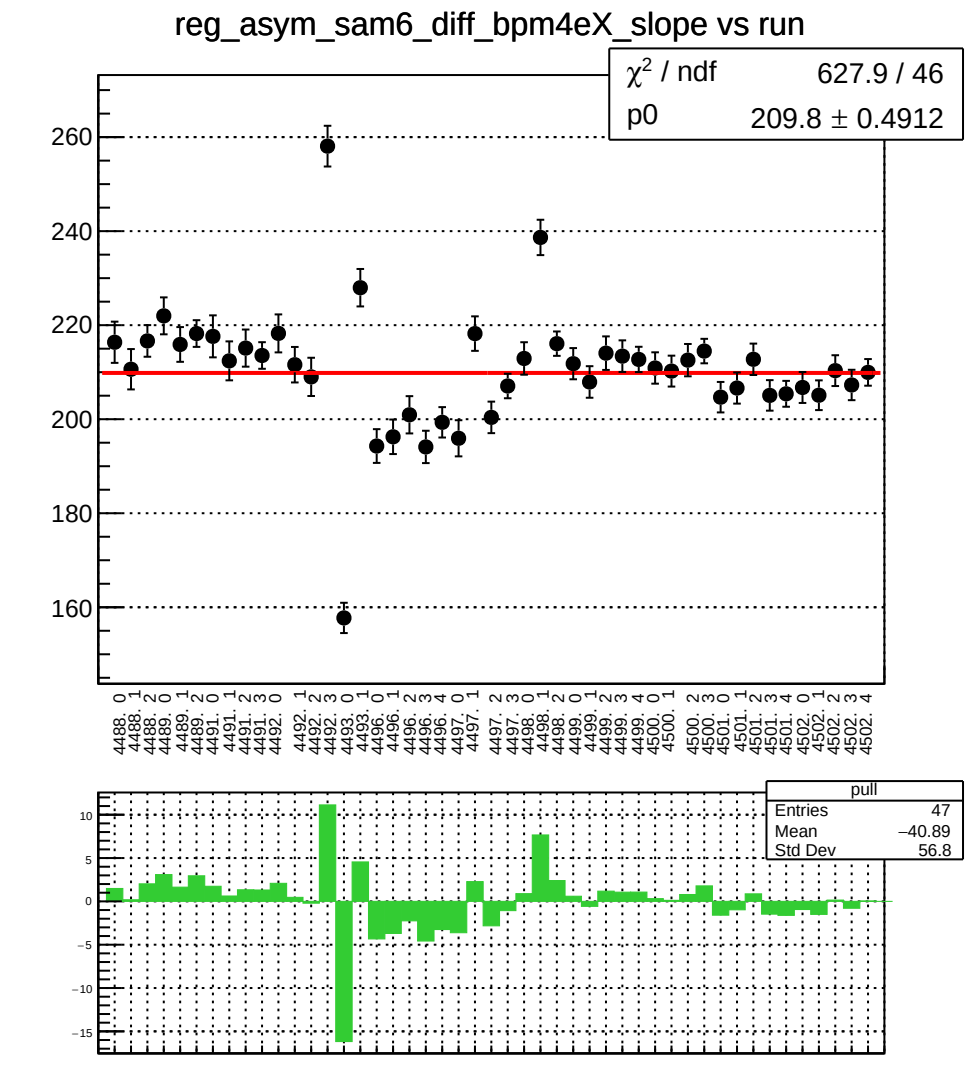

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 755.3 / 46
p0 15.7 ± 0.2456
pull
Entries 47
Mean 48.08
Std Dev 21.43
pull1D
Entries 47
Mean −1.556
Std Dev 3.694

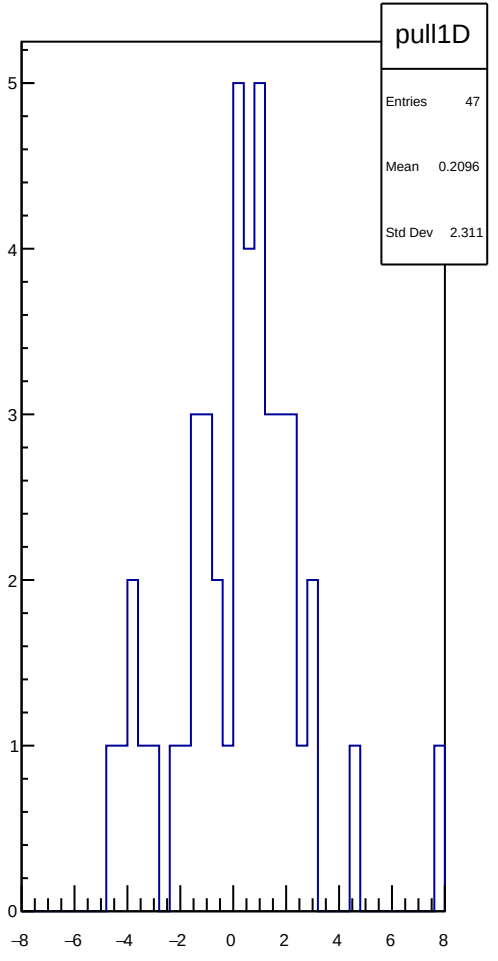

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 191.9 / 46
p0 49.33 ± 2.907
pull
Entries 47
Mean −184.3
Std Dev 207.8

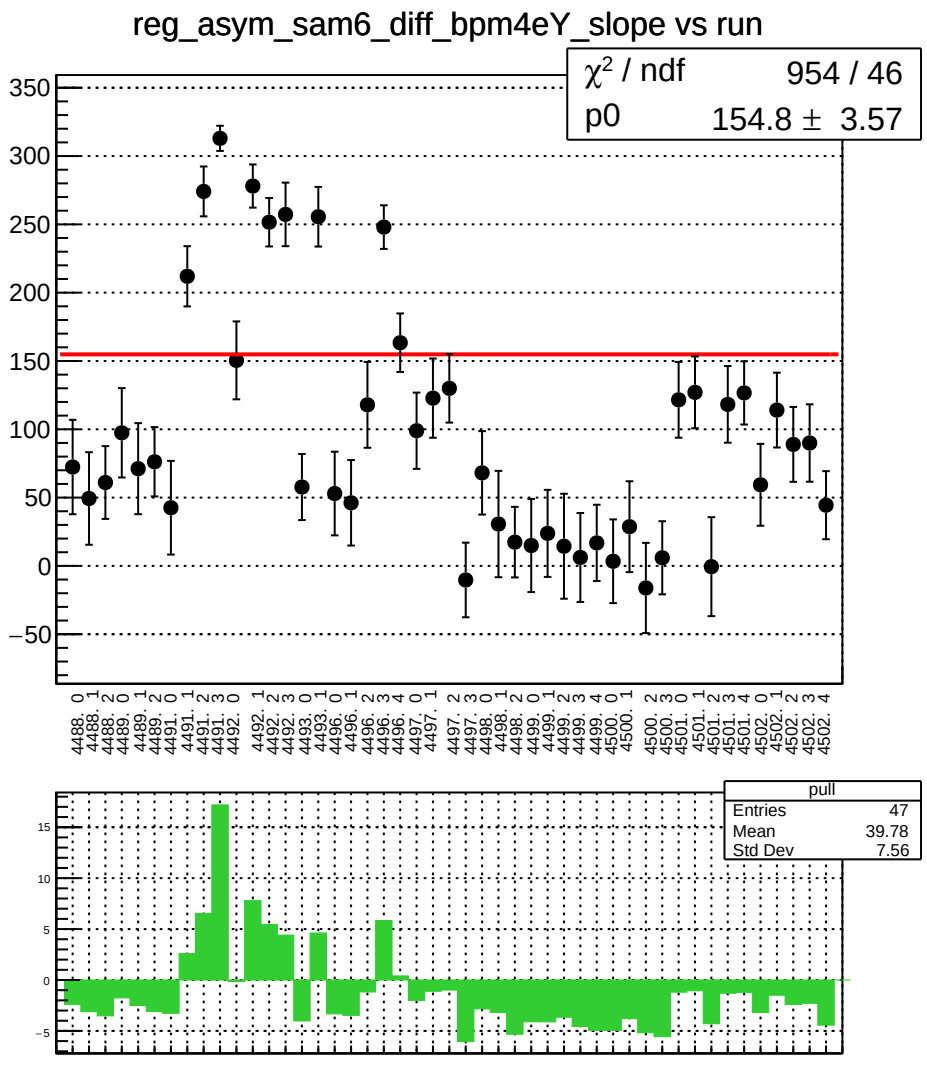

pull1D
Entries 47
Mean 0.1021
Std Dev 2.018

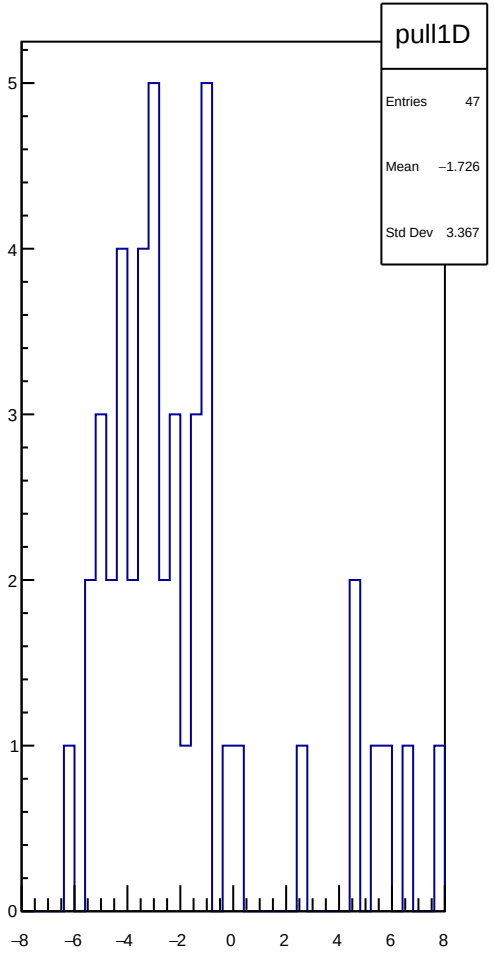

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 1523 / 46
p0 33.79 ± 3.23
pull
Entries 47
Mean 108.5
Std Dev 83.39

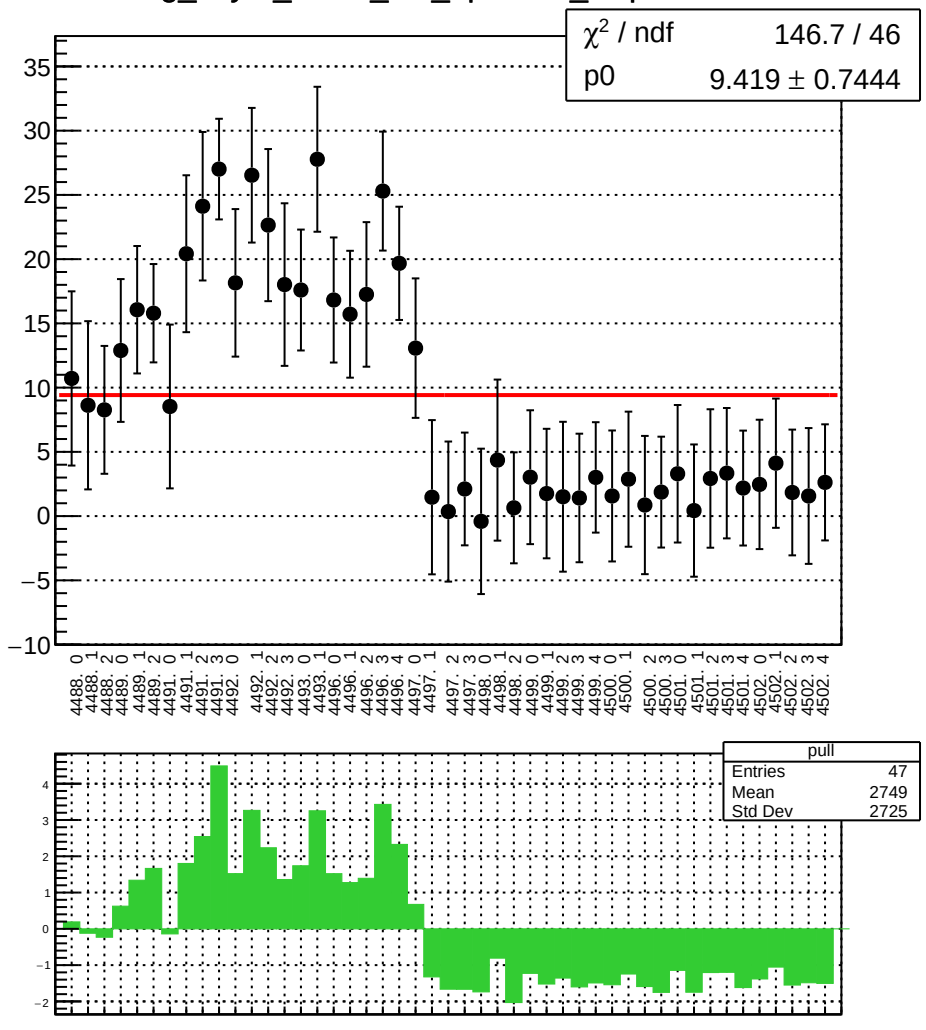

pull1D
Entries 47
Mean 2.013
Std Dev 3.619

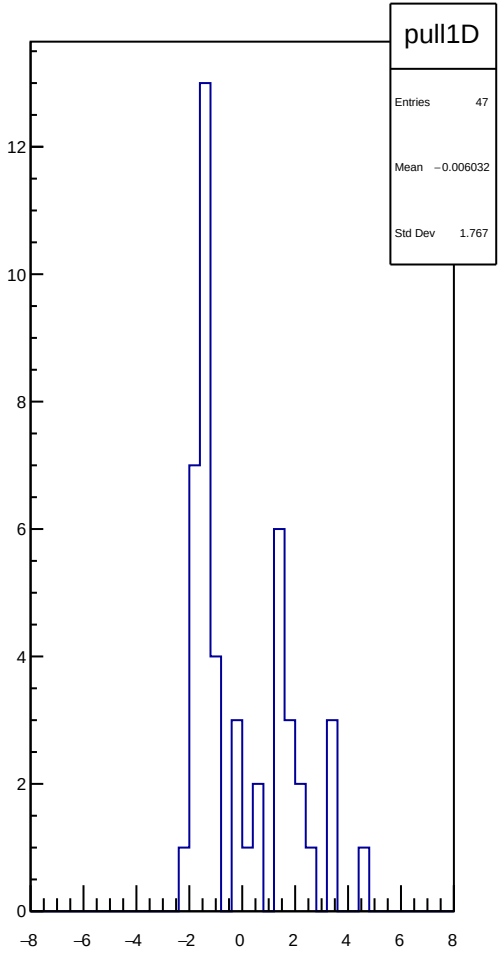

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 627.9 / 46
p0 209.8 ± 0.4912
260
240
220
200
180
160
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −40.89
Std Dev 56.8
10
5
0
−5
−10
−15

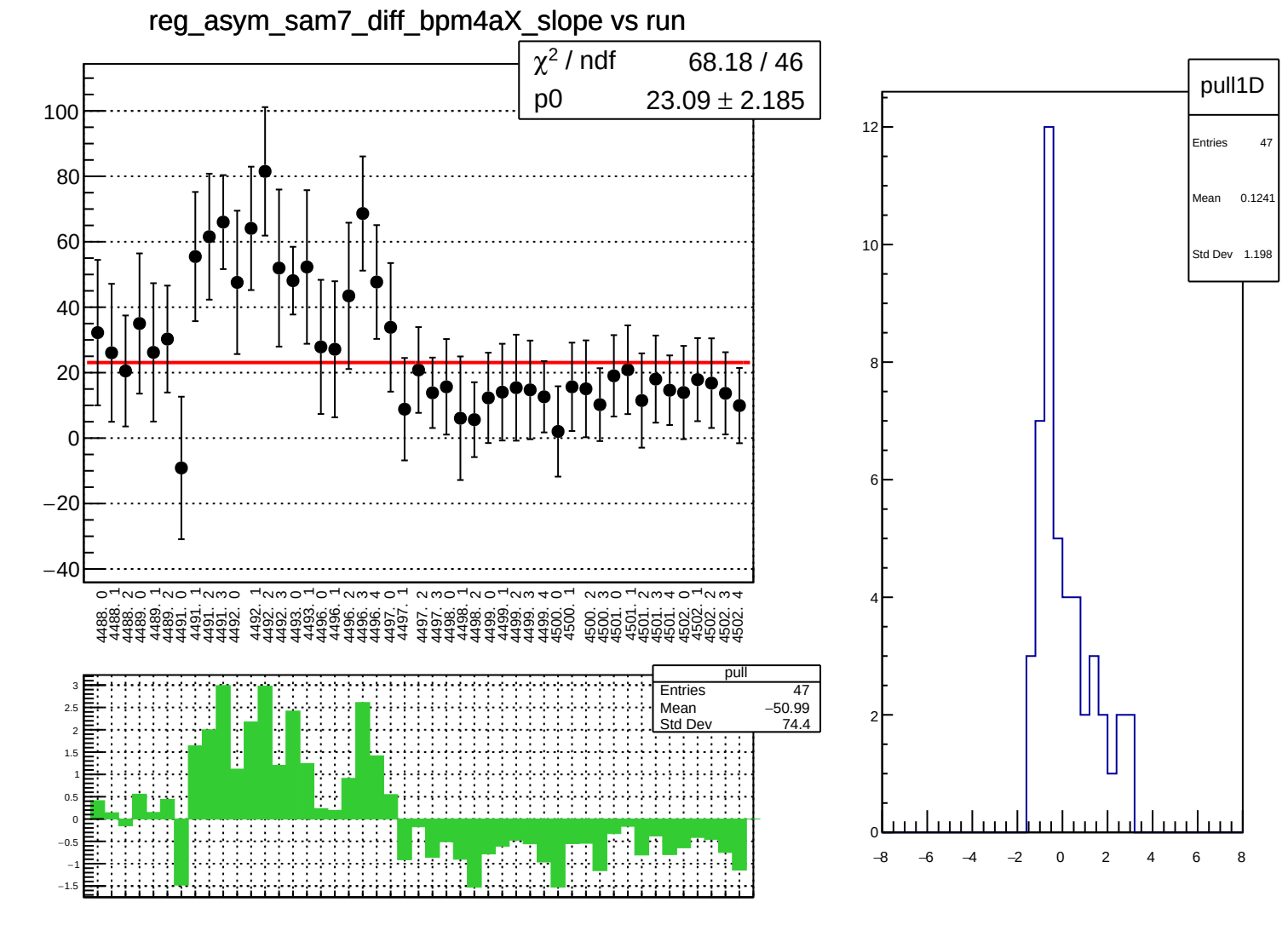

pull1D
Entries 47
Mean 0.2096
Std Dev 2.311
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

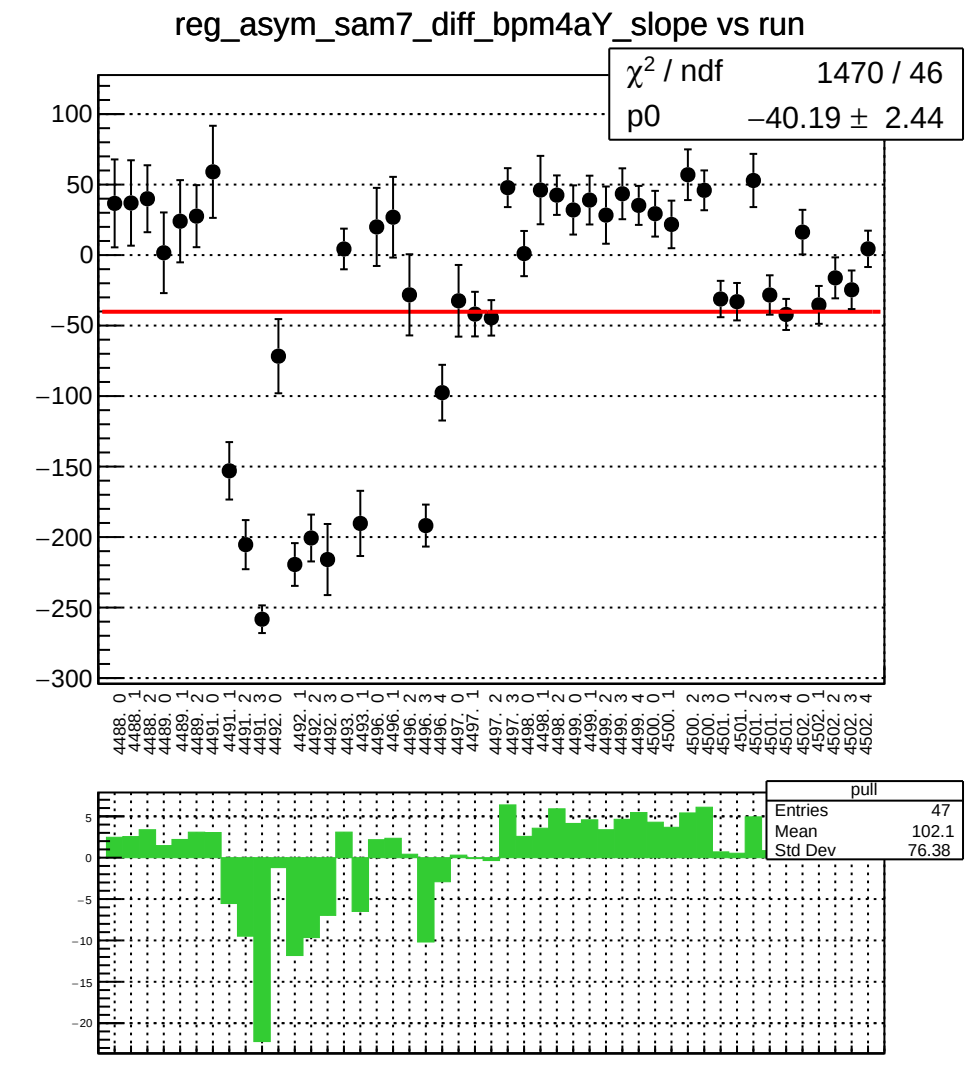

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 954 / 46
p0 154.8 ± 3.57
pull
Entries 47
Mean 39.78
Std Dev 7.56

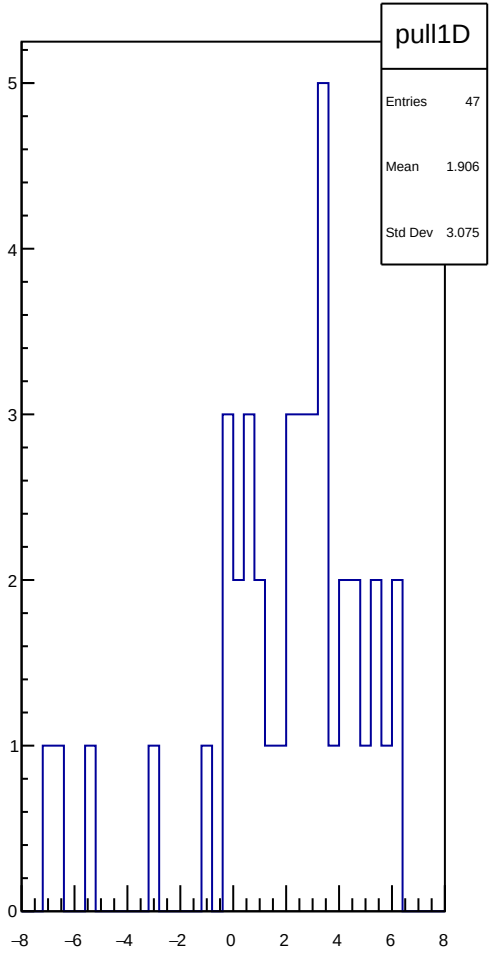

pull1D
Entries 47
Mean −1.726
Std Dev 3.367

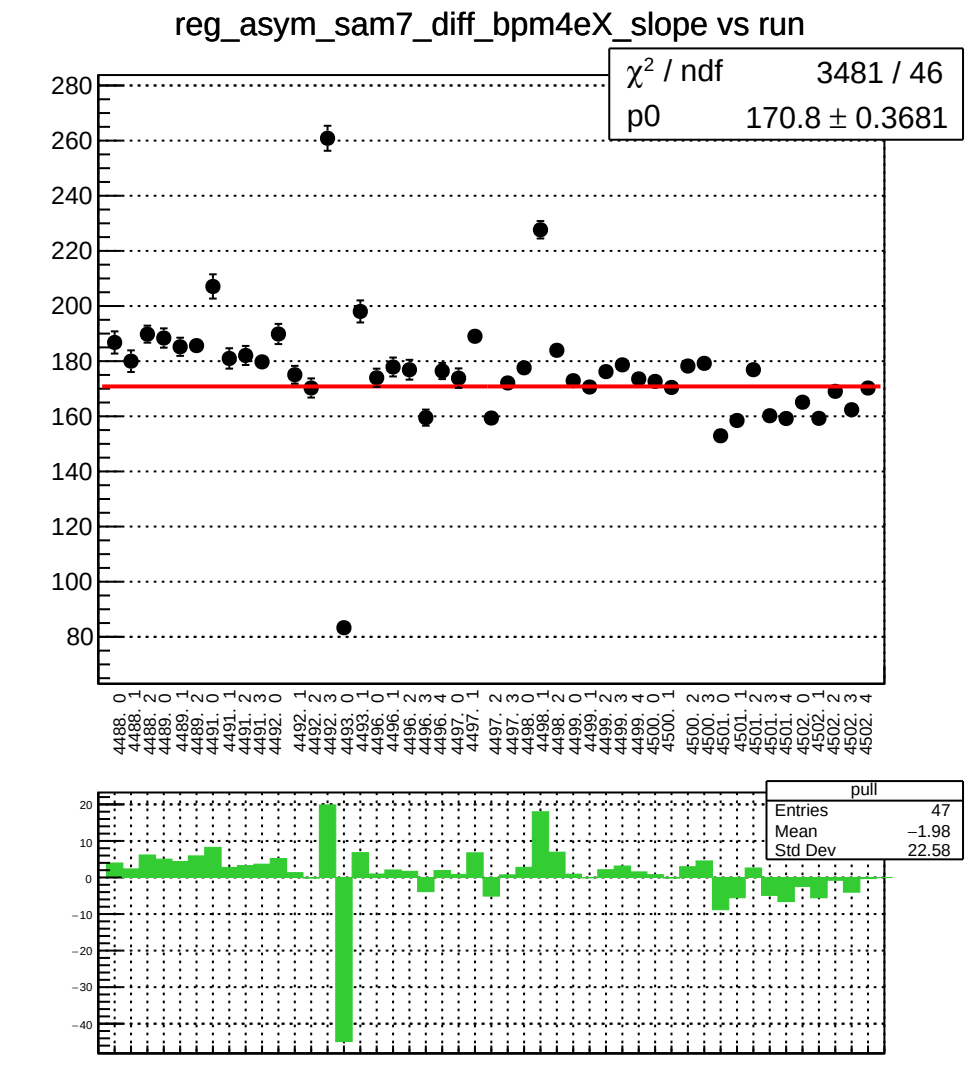

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 146.7 / 46
p0 9.419 ± 0.7444
pull
Entries 47
Mean 2749
Std Dev 2725

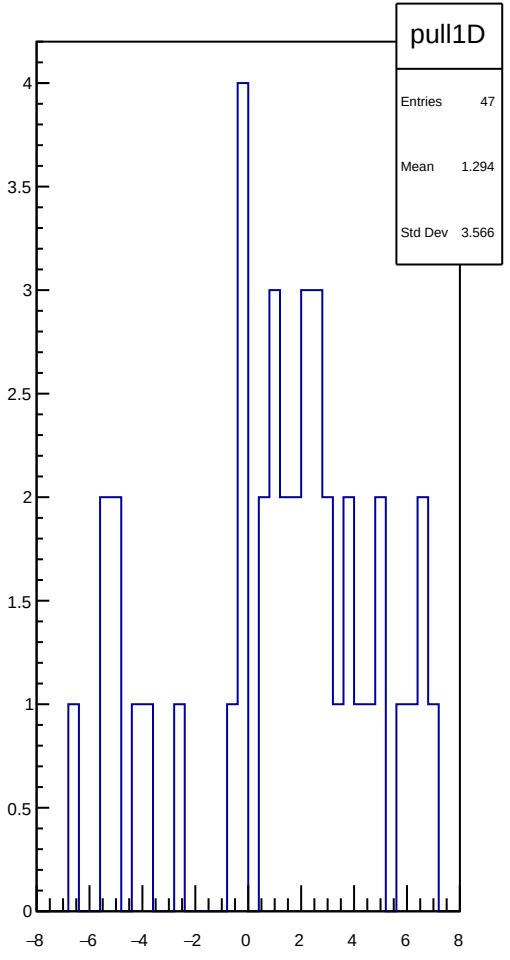

pull1D
Entries 47
Mean −0.006032
Std Dev 1.767

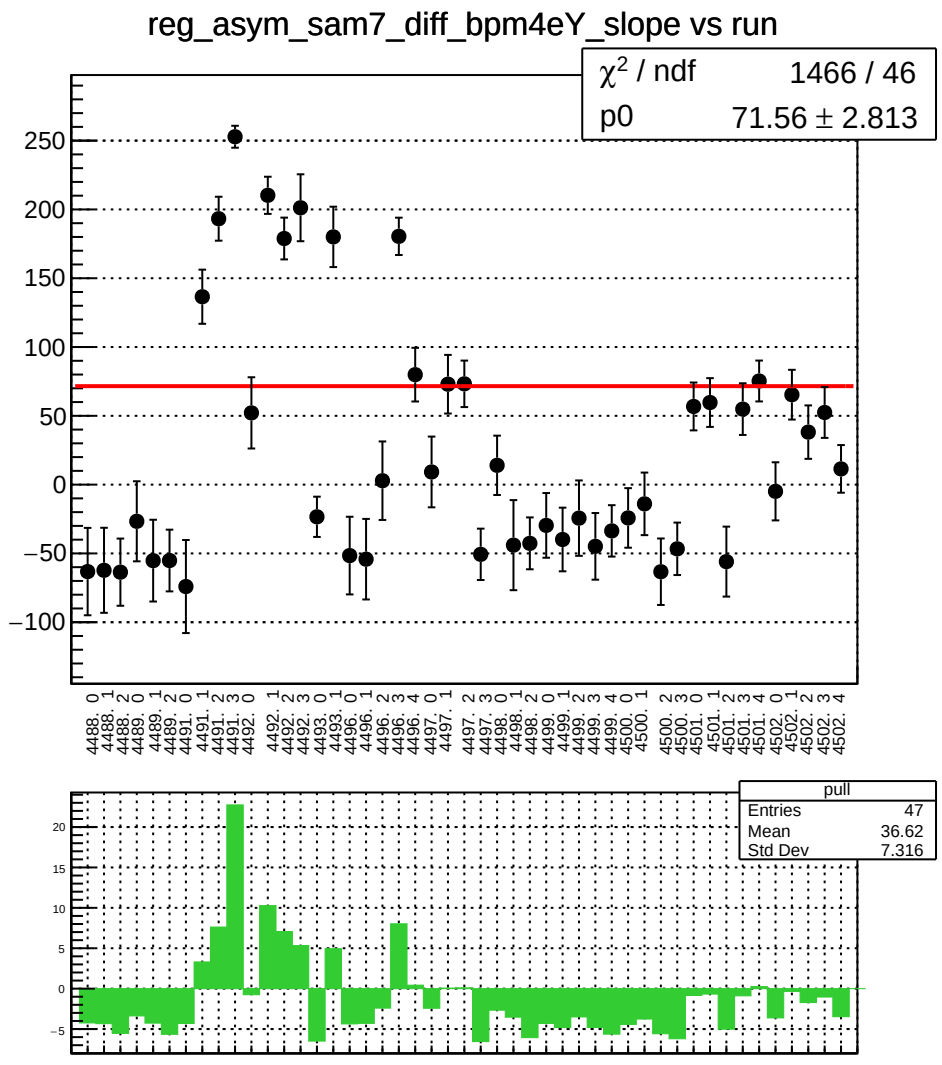

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 68.18 / 46
p0 23.09 ± 2.185
pull
Entries 47
Mean −50.99
Std Dev 74.4
pull1D
Entries 47
Mean 0.1241
Std Dev 1.198

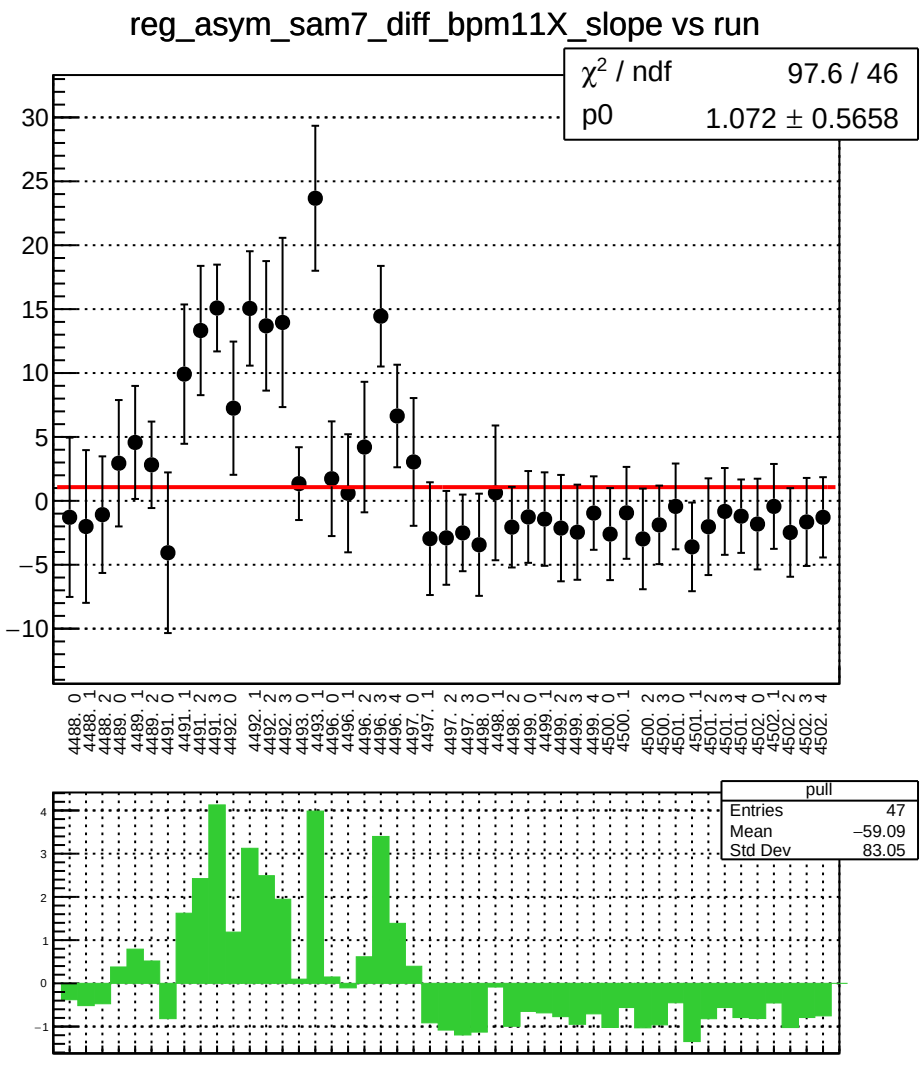

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1470 / 46
p0 −40.19 ± 2.44
pull
Entries 47
Mean 102.1
Std Dev 76.38

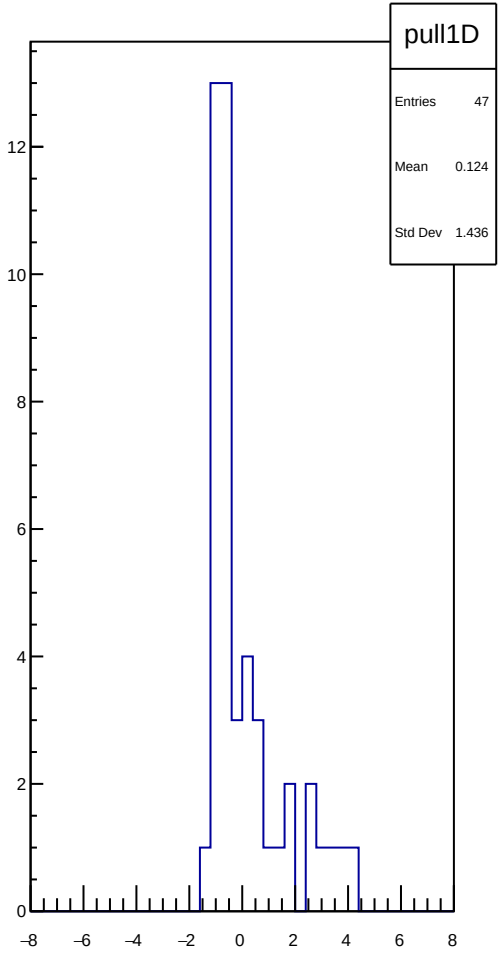

pull1D
Entries 47
Mean 1.906
Std Dev 3.075

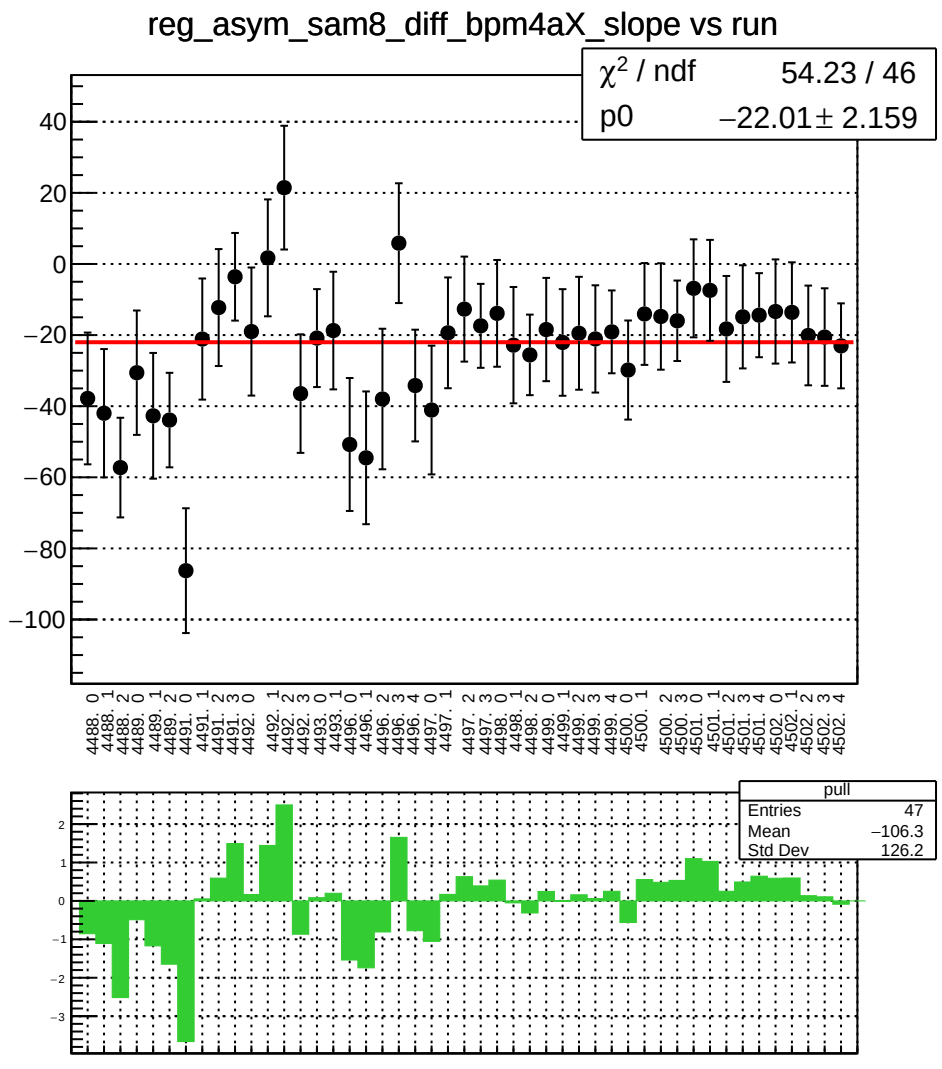

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3481 / 46
p0 170.8 ± 0.3681
pull
Entries 47
Mean −1.98
Std Dev 22.58

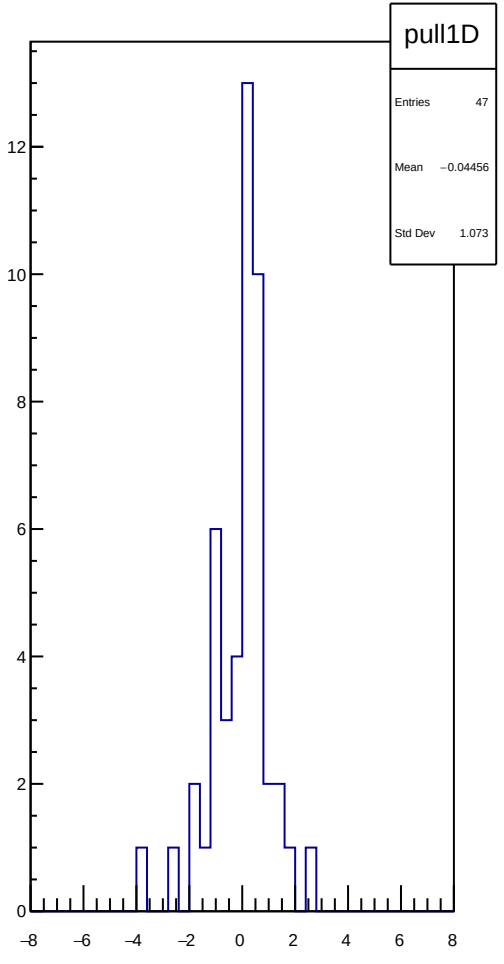

pull1D
Entries 47
Mean 1.294
Std Dev 3.566

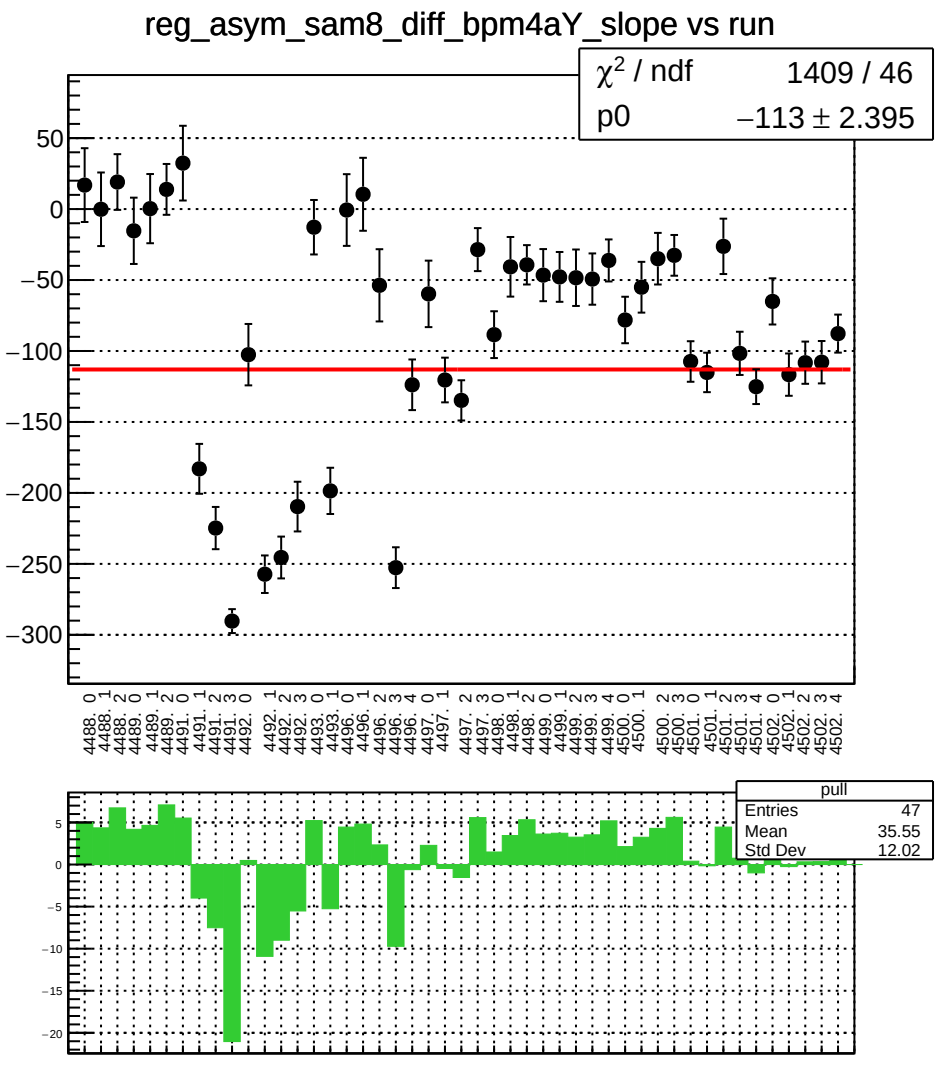

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1466 / 46
p0 71.56 ± 2.813
250
200
150
100
50
0
−50
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 36.62
Std Dev 7.316
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.336
Std Dev 3.5
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

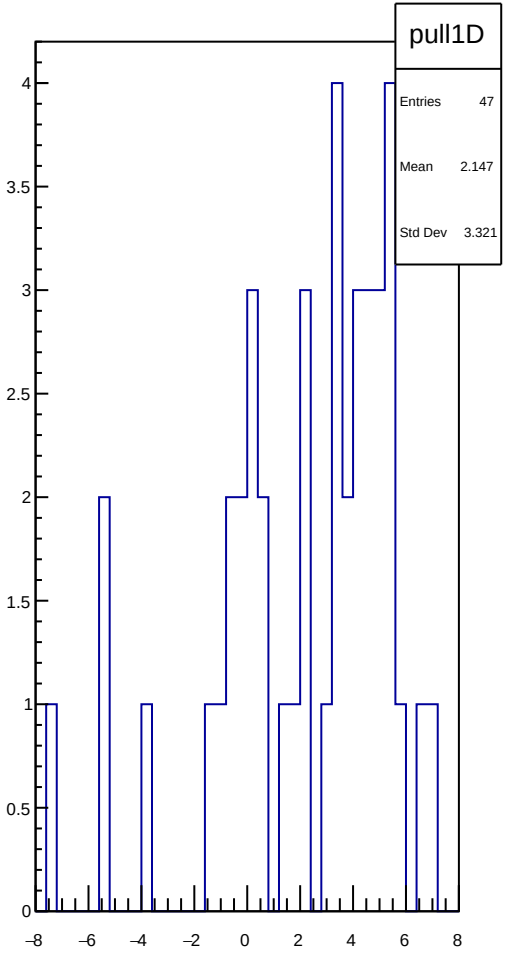

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 97.6 / 46
p0 1.072 ± 0.5658
pull
Entries 47
Mean −59.09
Std Dev 83.05

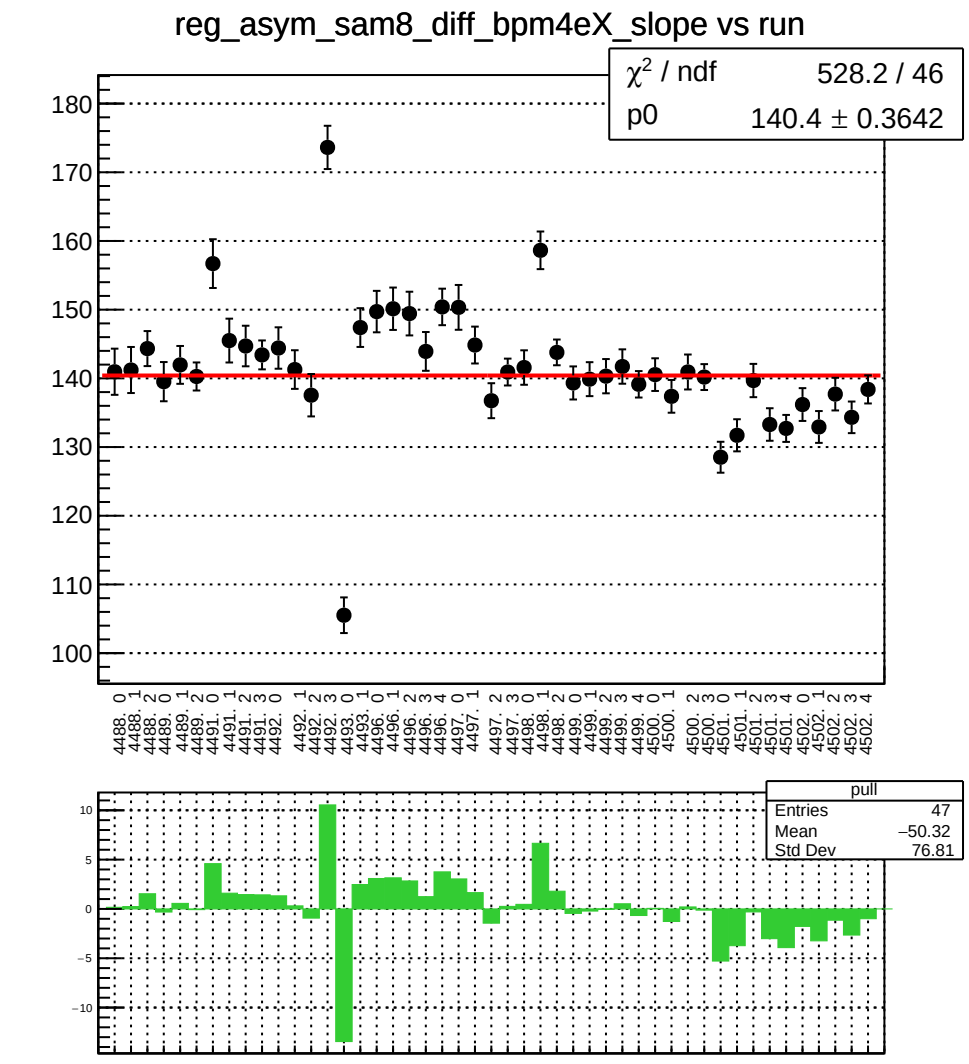

pull1D
Entries 47
Mean 0.124
Std Dev 1.436

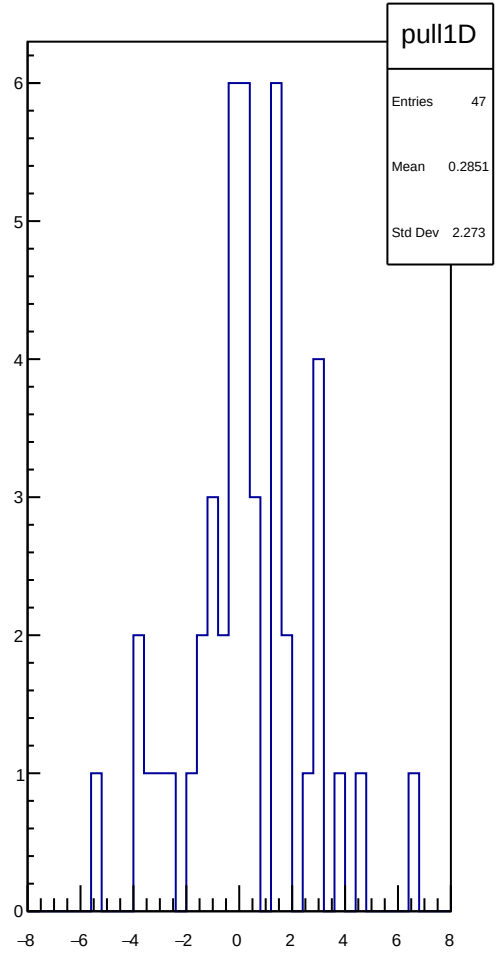

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 54.23 / 46
p0 −22.01± 2.159
pull
Entries 47
Mean −106.3
Std Dev 126.2

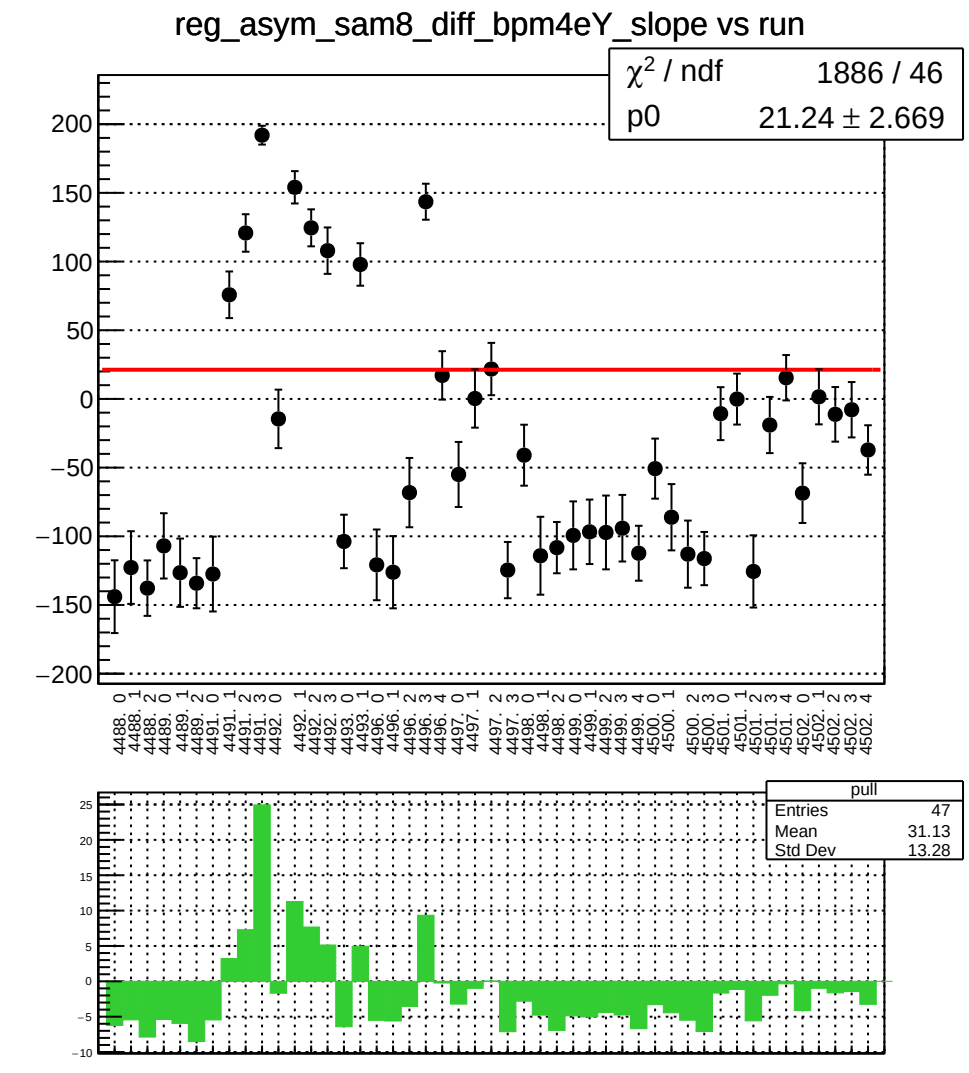

pull1D
Entries 47
Mean −0.04456
Std Dev 1.073

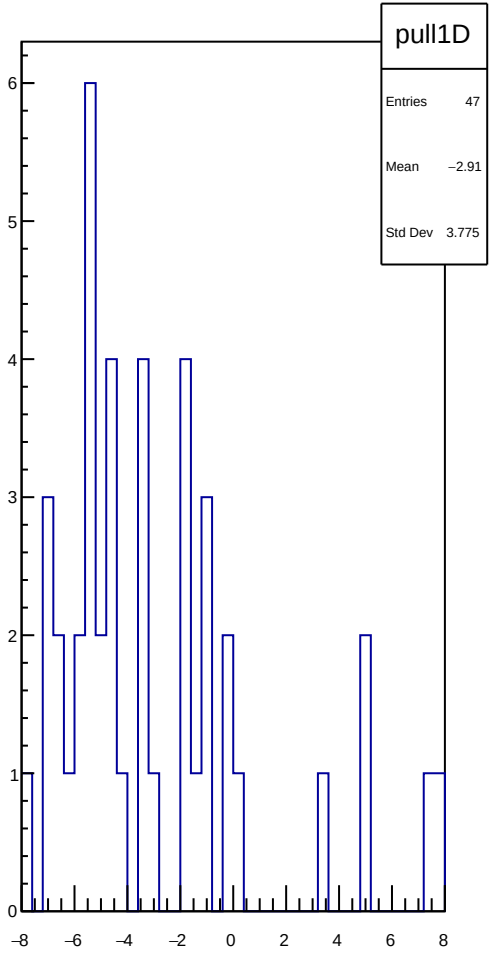

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1409 / 46
p0 −113 ± 2.395
50
0
−50
−100
−150
−200
−250
−300
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 35.55
Std Dev 12.02
5
0
−5
−10
−15
−20

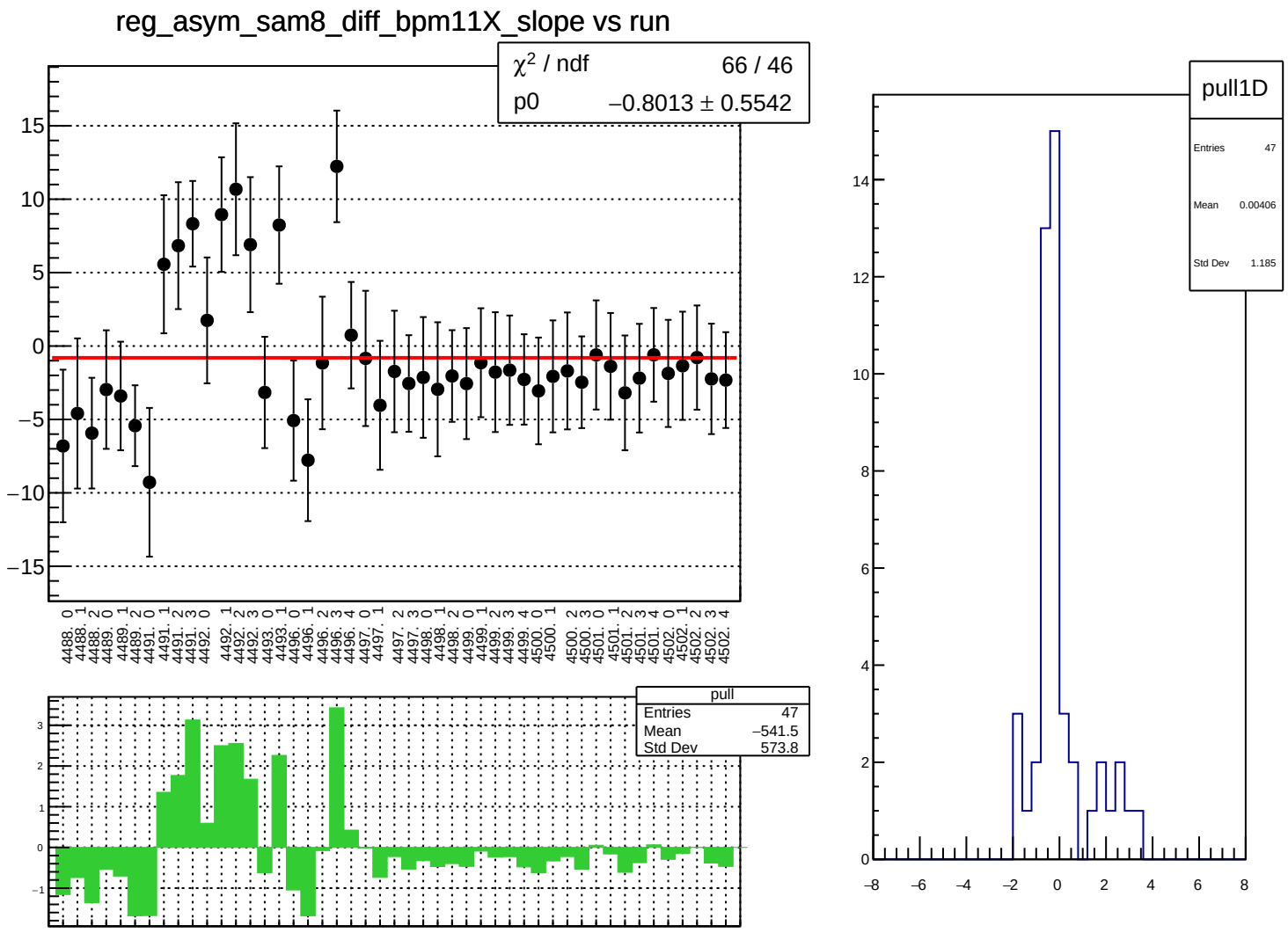

pull1D
Entries 47
Mean 2.147
Std Dev 3.321
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

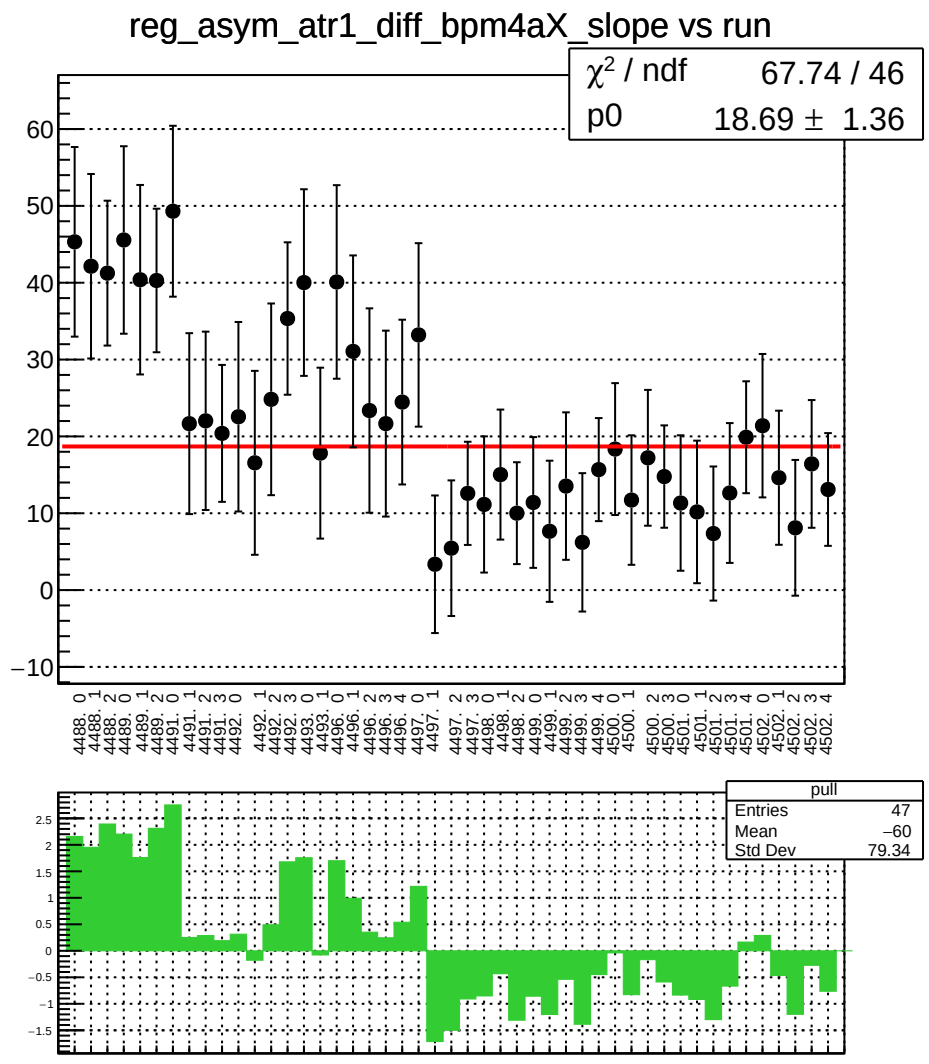

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 528.2 / 46
p0 140.4 ± 0.3642
pull
Entries 47
Mean −50.32
Std Dev 76.81

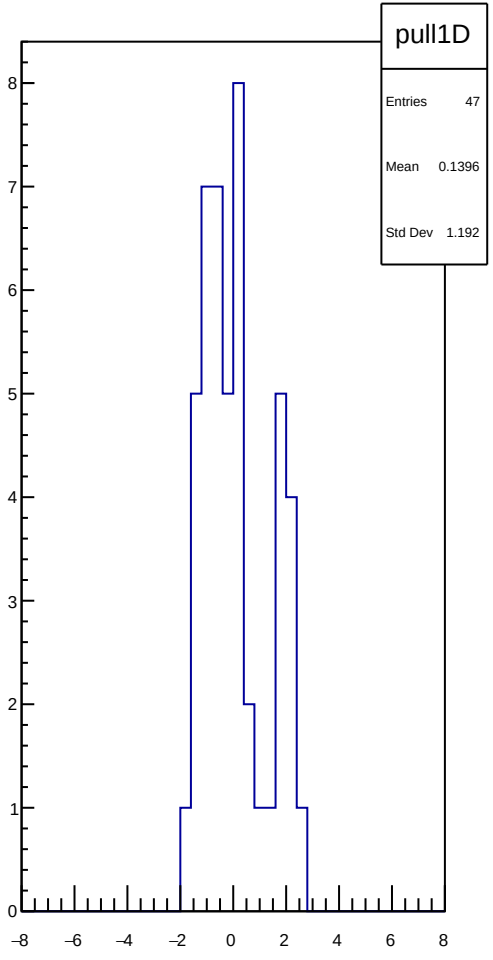

pull1D
Entries 47
Mean 0.2851
Std Dev 2.273

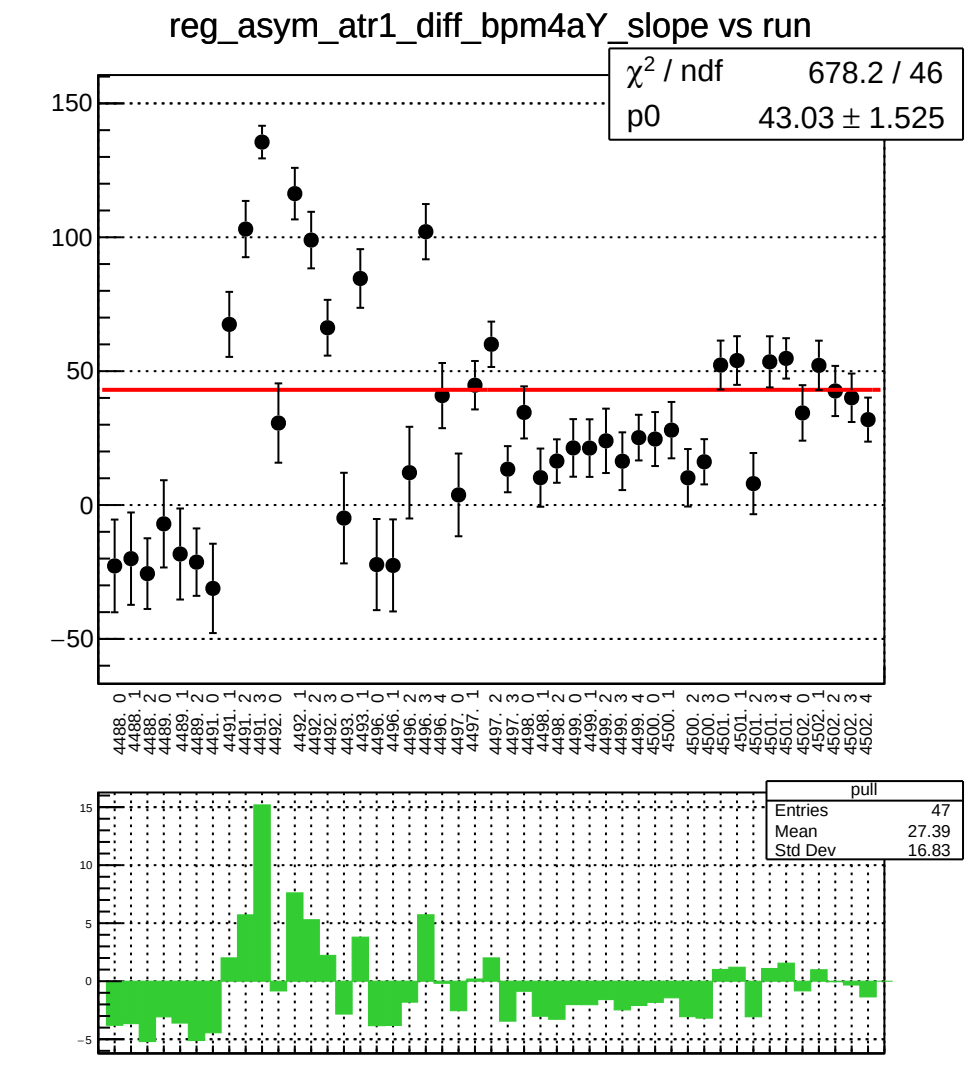

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1886 / 46
p0 21.24 ± 2.669
pull
Entries 47
Mean 31.13
Std Dev 13.28

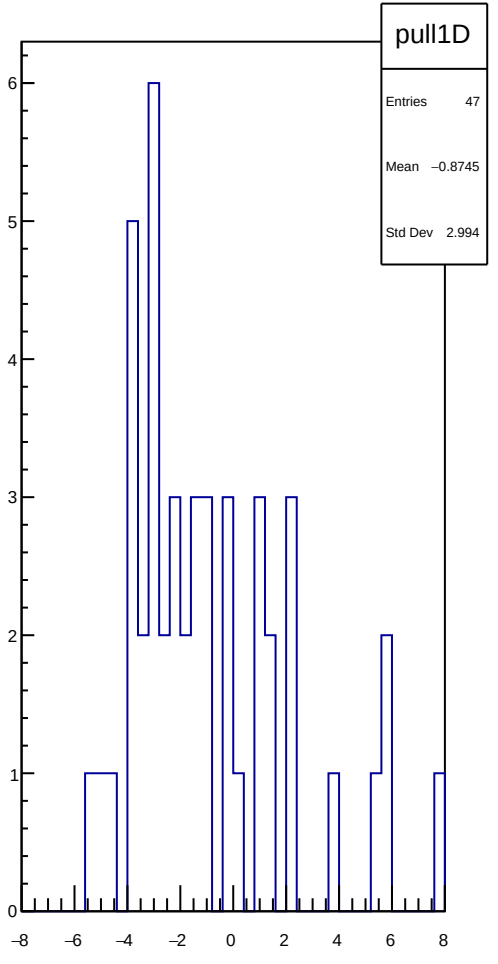

pull1D
Entries 47
Mean −2.91
Std Dev 3.775

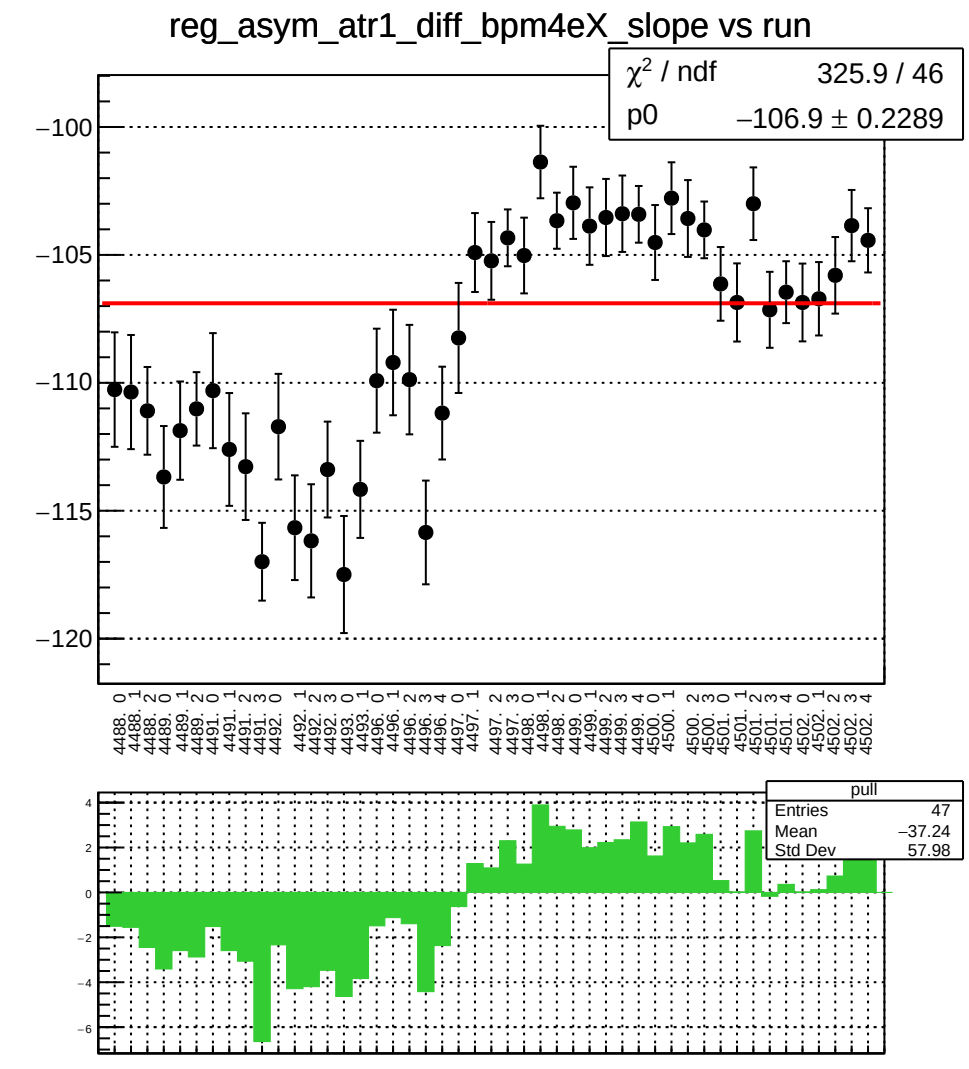

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 66 / 46
p0 −0.8013 ± 0.5542
15
10
5
0
−5
−10
−15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −541.5
Std Dev 573.8
3
2
1
0
−1
pull1D
Entries 47
Mean 0.00406
Std Dev 1.185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

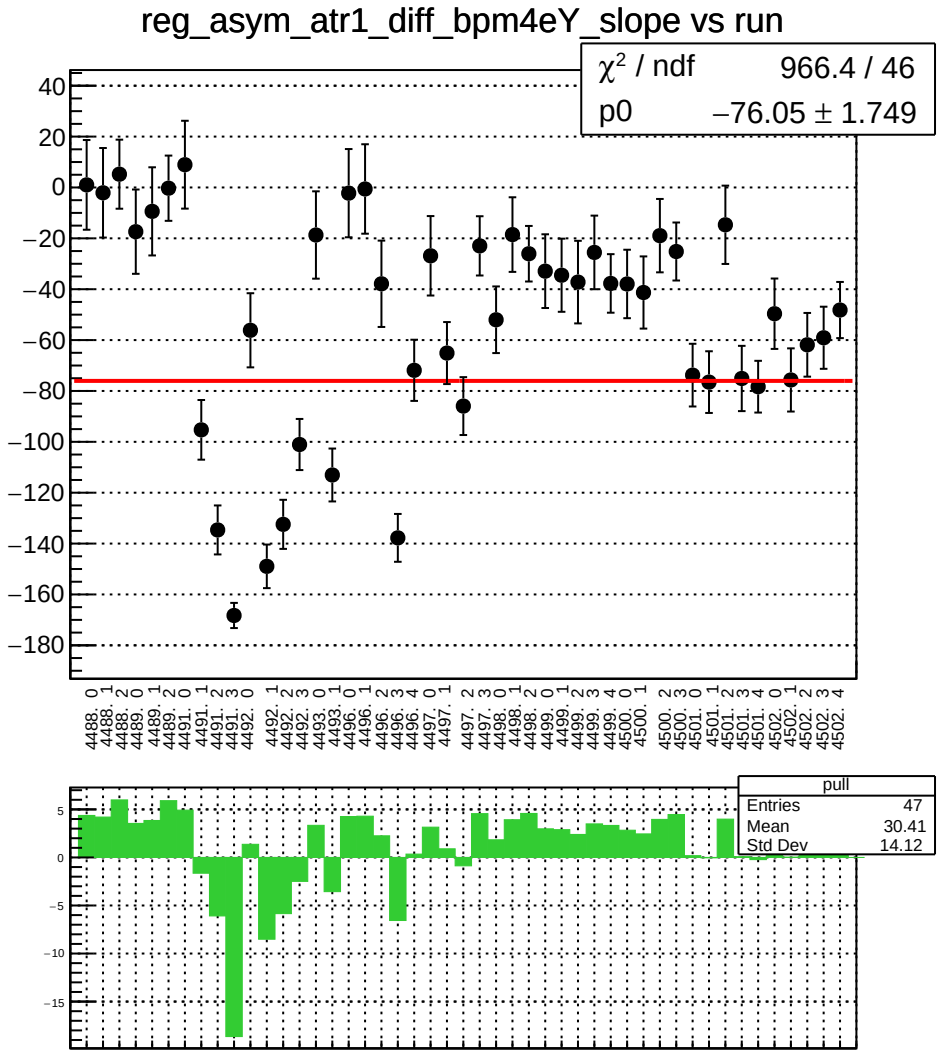

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 67.74 / 46
p0 18.69 ± 1.36
pull
Entries 47
Mean −60
Std Dev 79.34

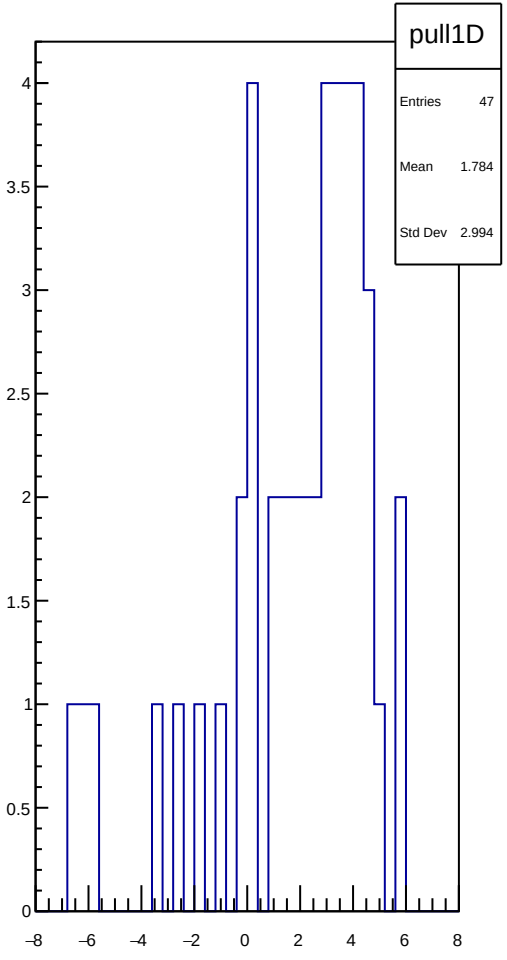

pull1D
Entries 47
Mean 0.1396
Std Dev 1.192

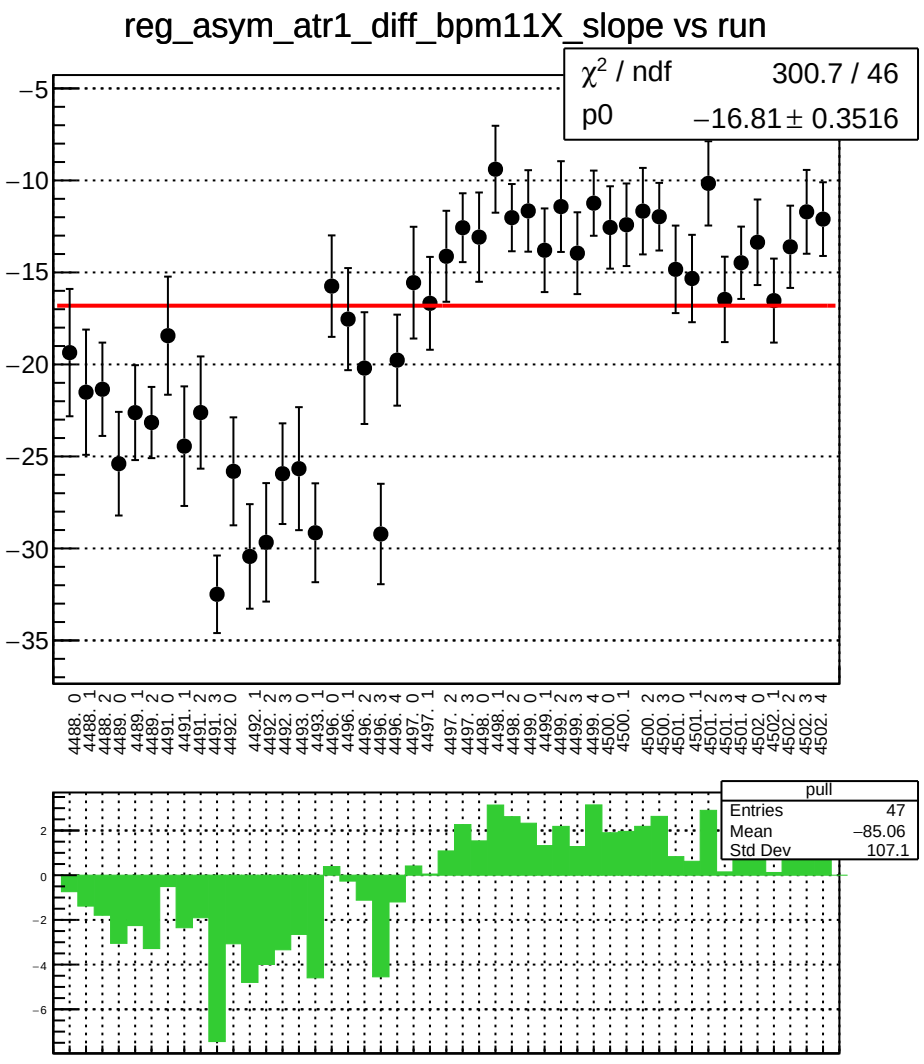

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 678.2 / 46
p0 43.03 ± 1.525
150
100
50
0
−50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 27.39
Std Dev 16.83
15
10
5
0
−5

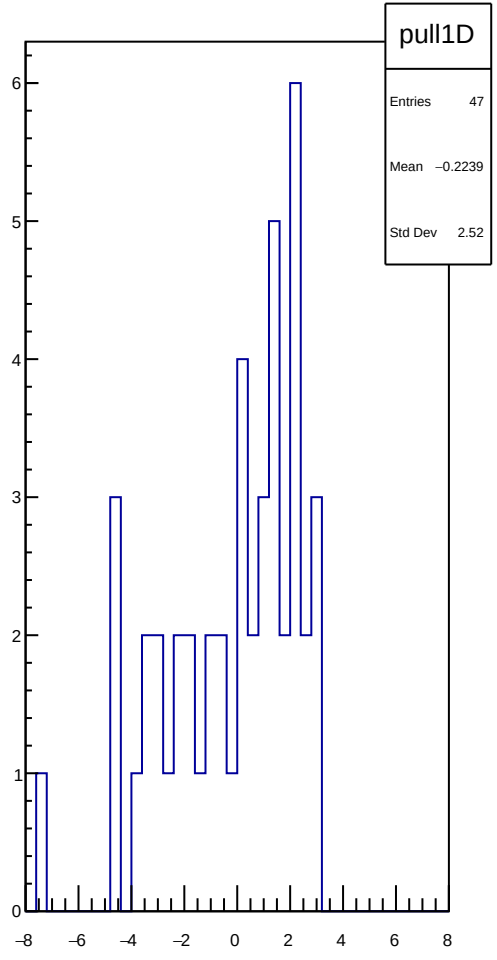

pull1D
Entries 47
Mean −0.8745
Std Dev 2.994
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

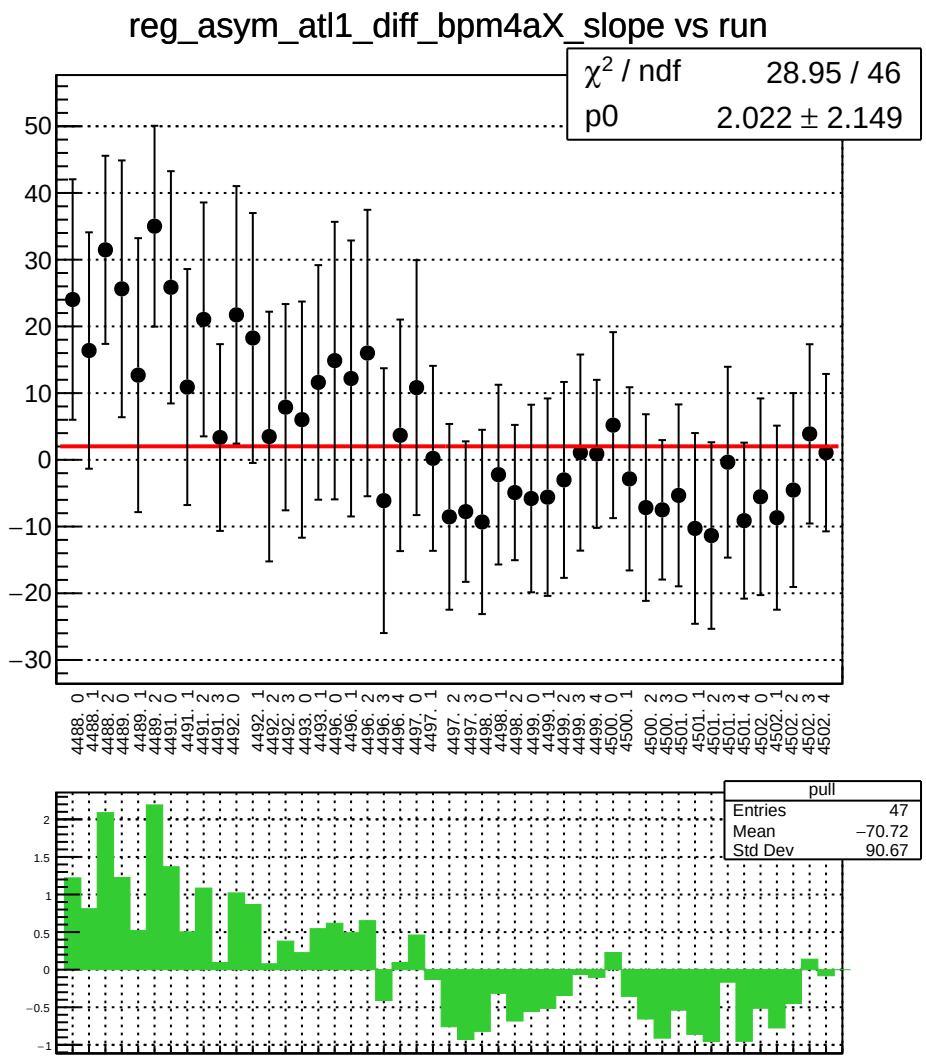

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 325.9 / 46
p0 −106.9 ± 0.2289
−100
−105
−110
−115
−120
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −37.24
Std Dev 57.98
4
2
0
−2
−4
−6
pull1D
Entries 47
Mean −0.4103
Std Dev 2.601
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

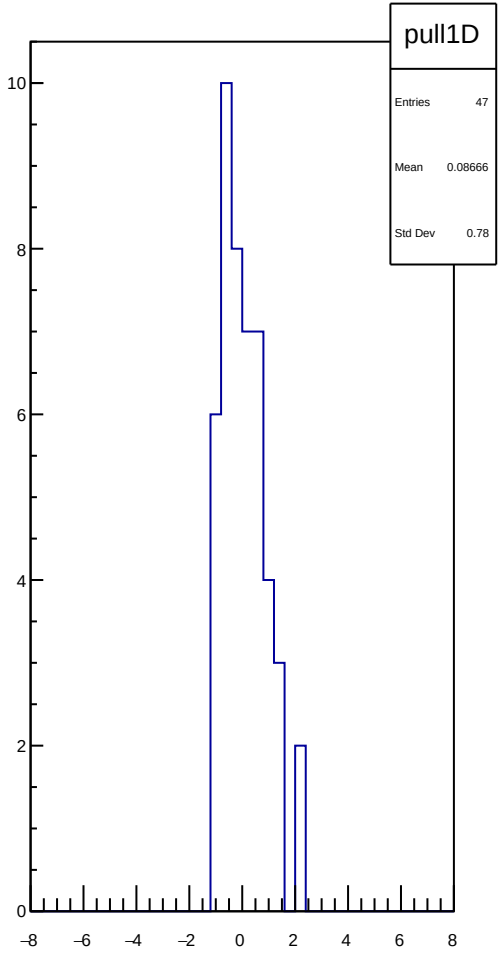

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 966.4 / 46
p0 −76.05 ± 1.749
pull
Entries 47
Mean 30.41
Std Dev 14.12

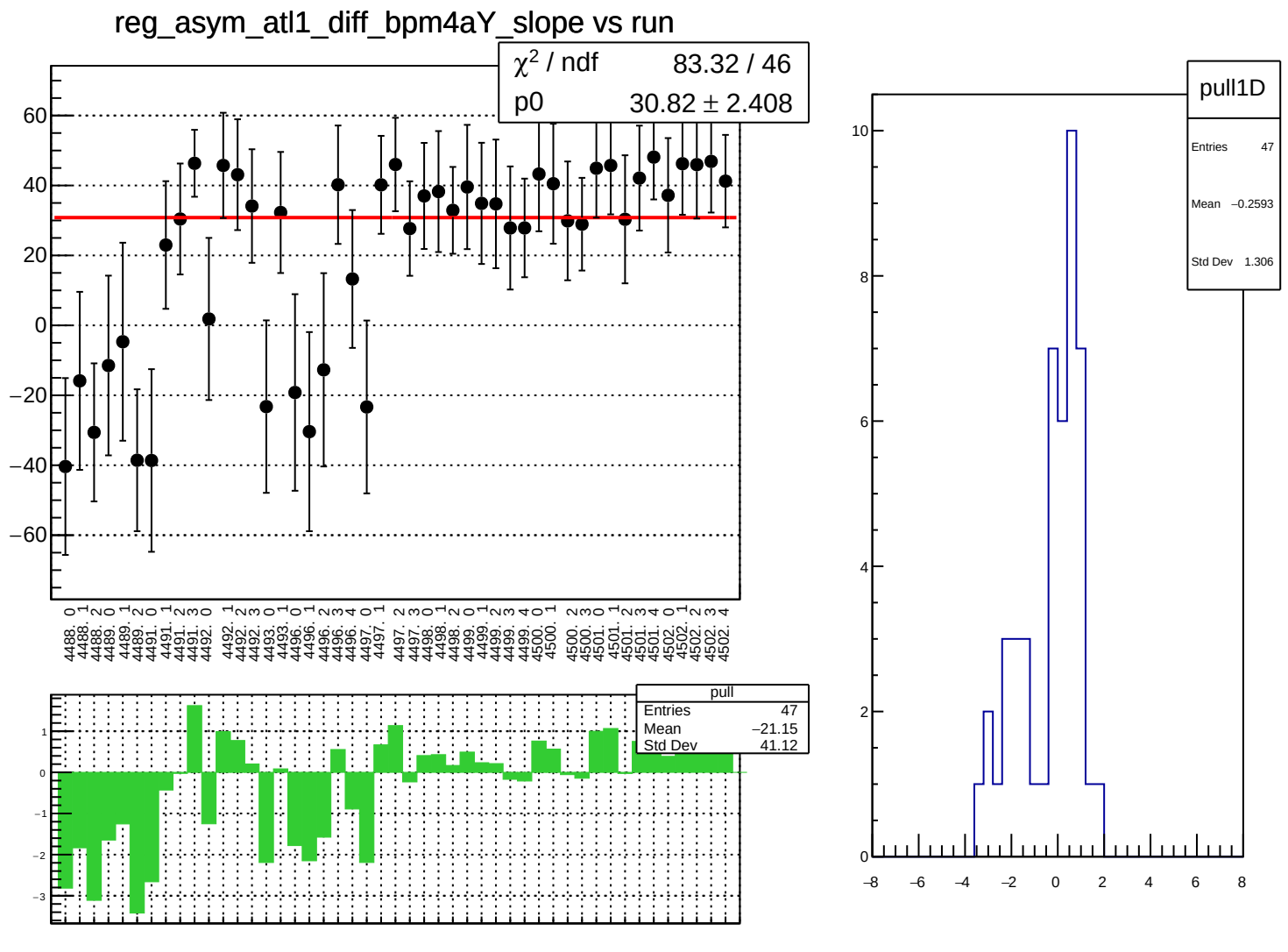

pull1D
Entries 47
Mean 1.784
Std Dev 2.994

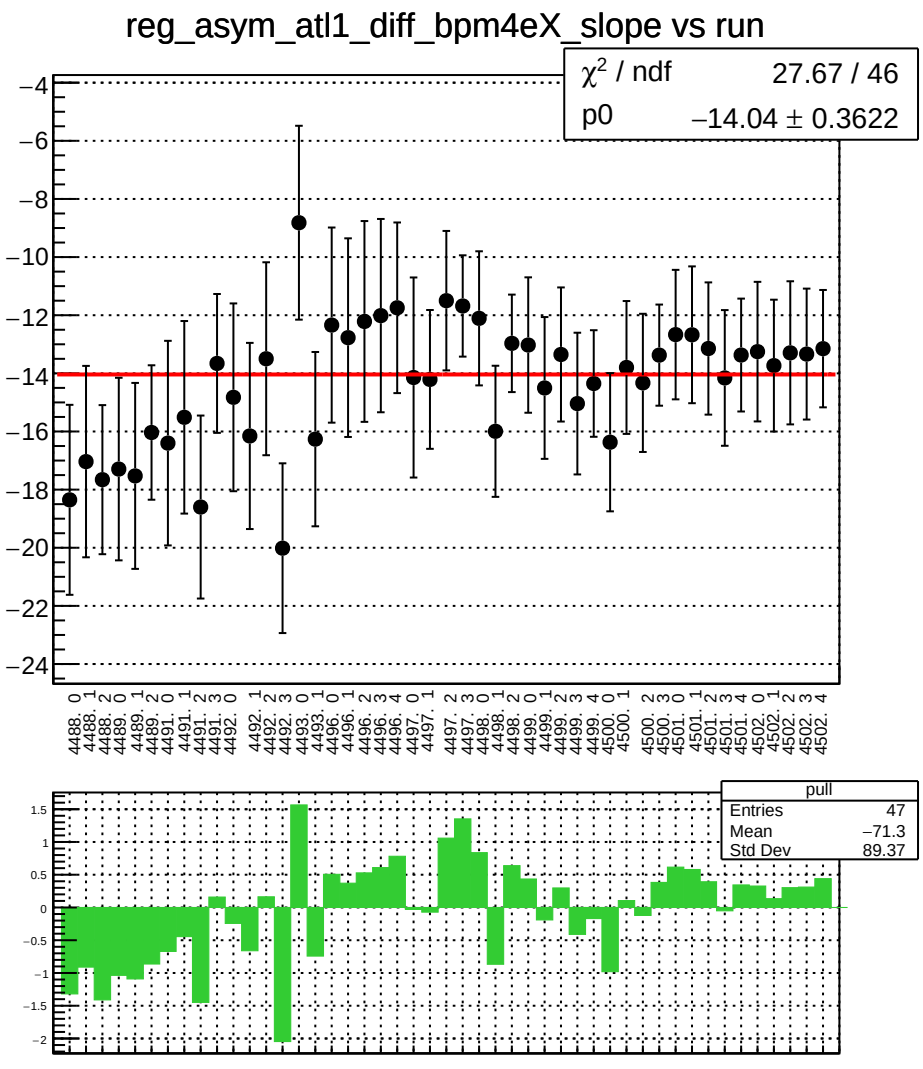

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 300.7 / 46
p0 −16.81 ± 0.3516
pull
Entries 47
Mean −85.06
Std Dev 107.1

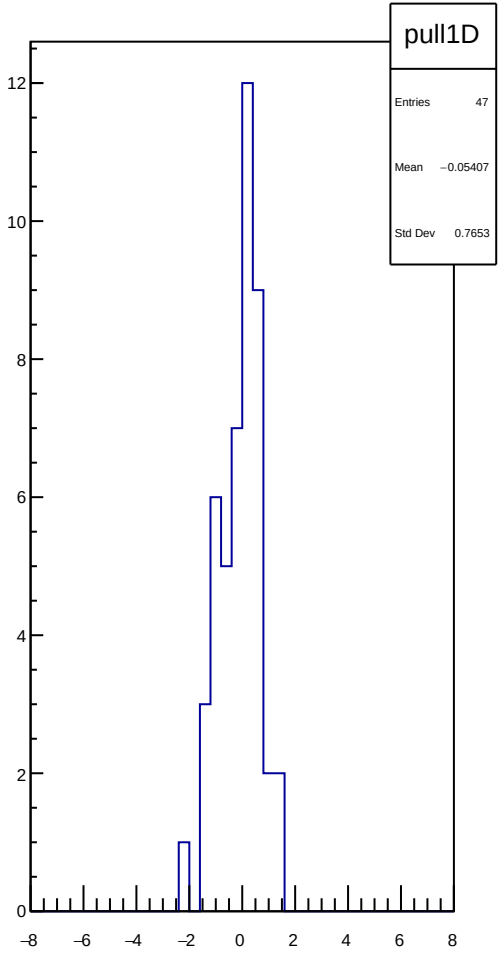

pull1D
Entries 47
Mean −0.2239
Std Dev 2.52

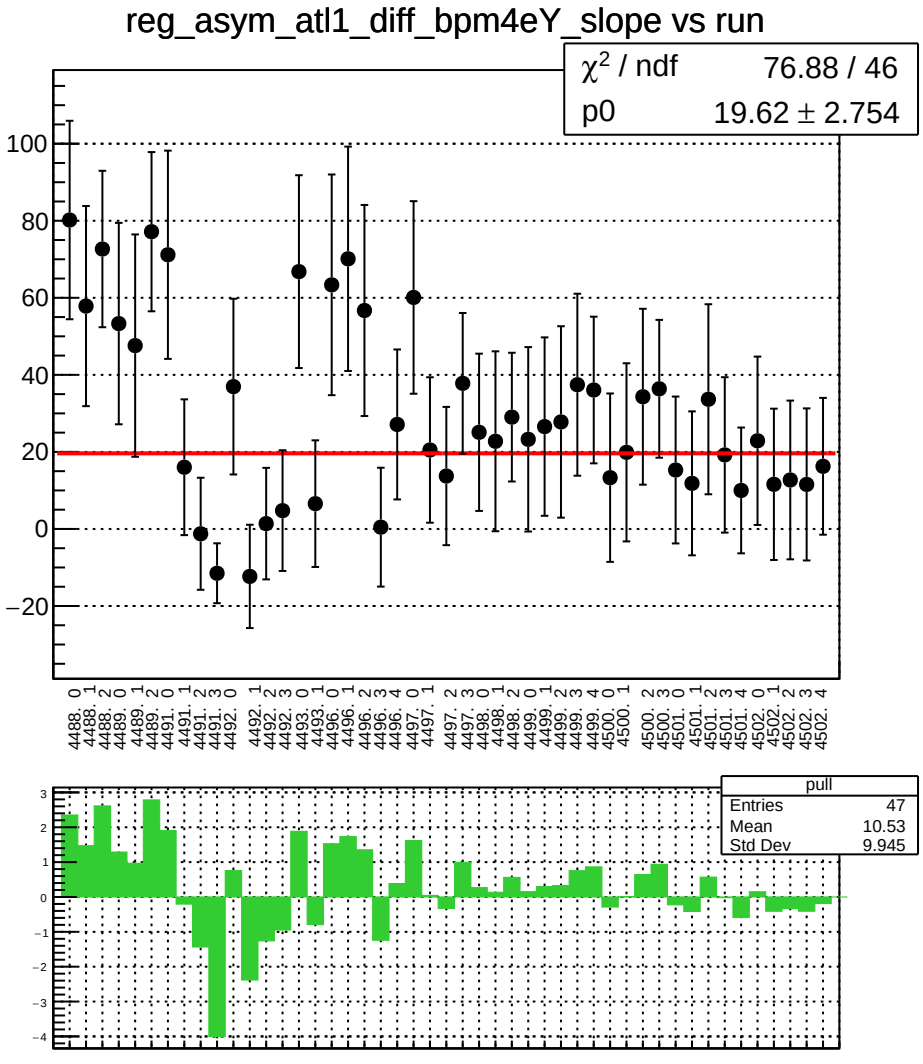

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 28.95 / 46
p0 2.022 ± 2.149
pull
Entries 47
Mean −70.72
Std Dev 90.67

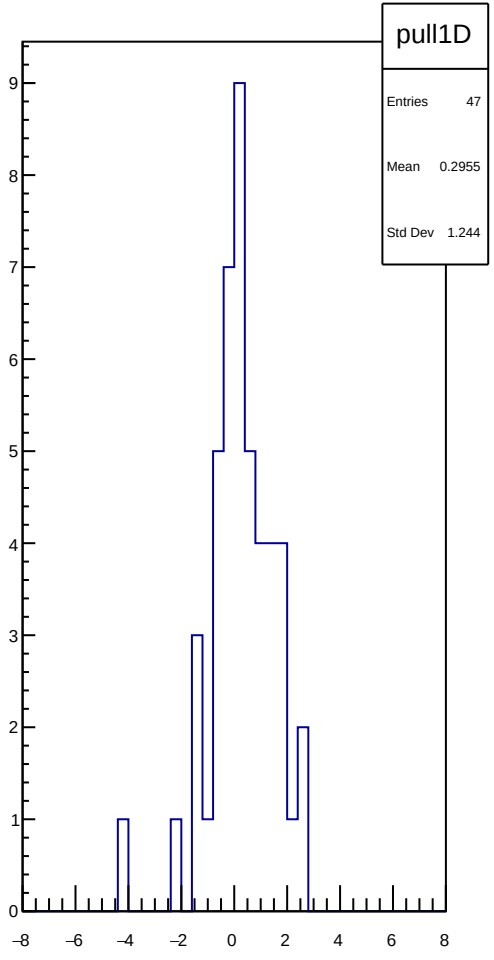

pull1D
Entries 47
Mean 0.08666
Std Dev 0.78

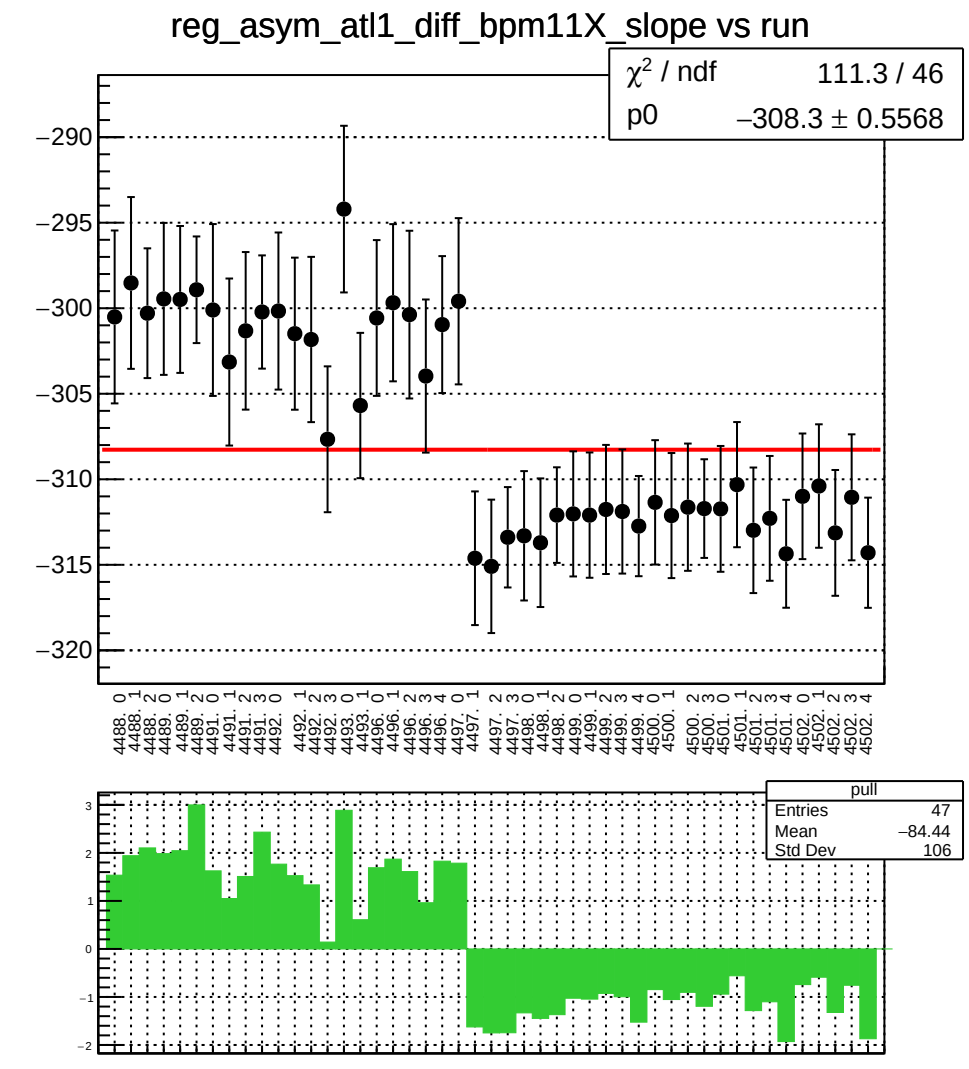

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 83.32 / 46
p0 30.82 ± 2.408
pull
Entries 47
Mean −21.15
Std Dev 41.12
pull1D
Entries 47
Mean −0.2593
Std Dev 1.306

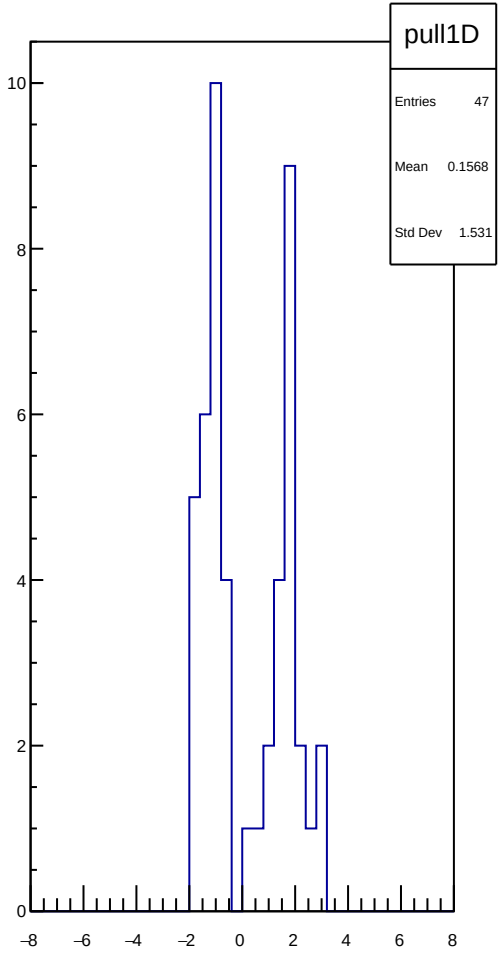

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 27.67 / 46
p0 −14.04 ± 0.3622
pull
Entries 47
Mean −71.3
Std Dev 89.37

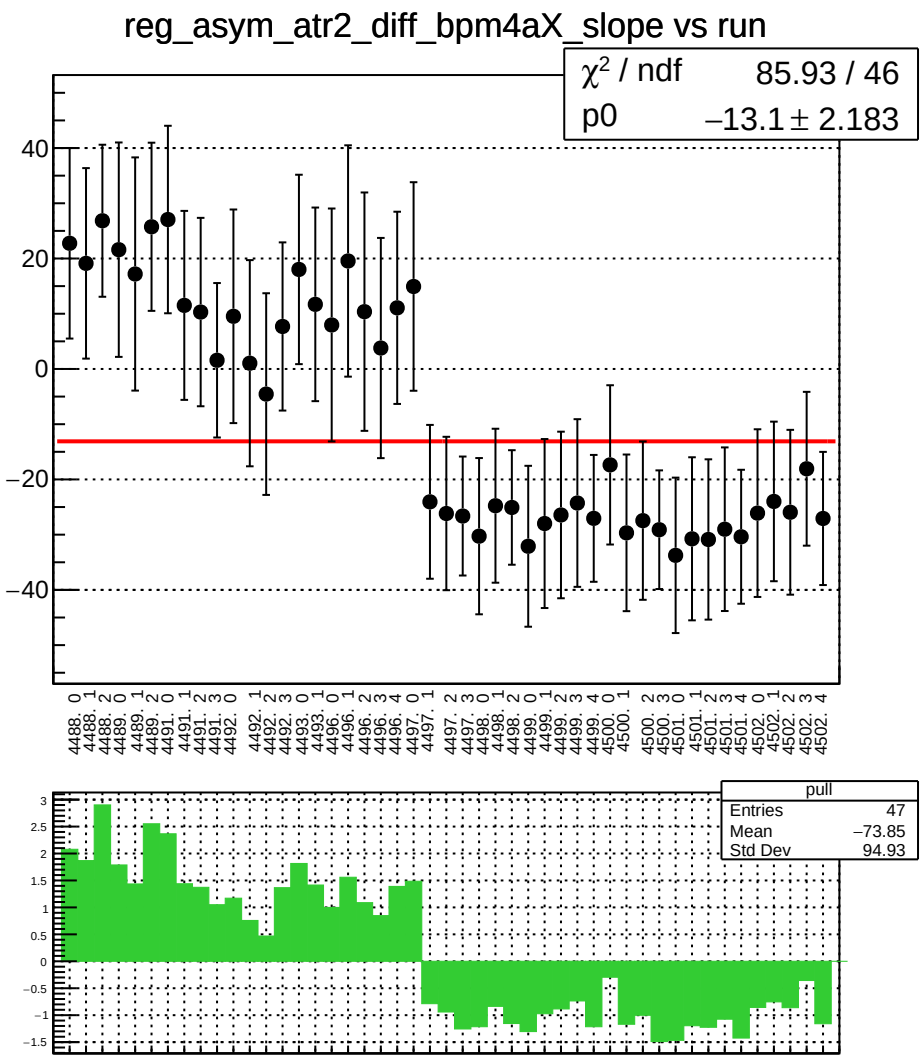

pull1D
Entries 47
Mean −0.05407
Std Dev 0.7653

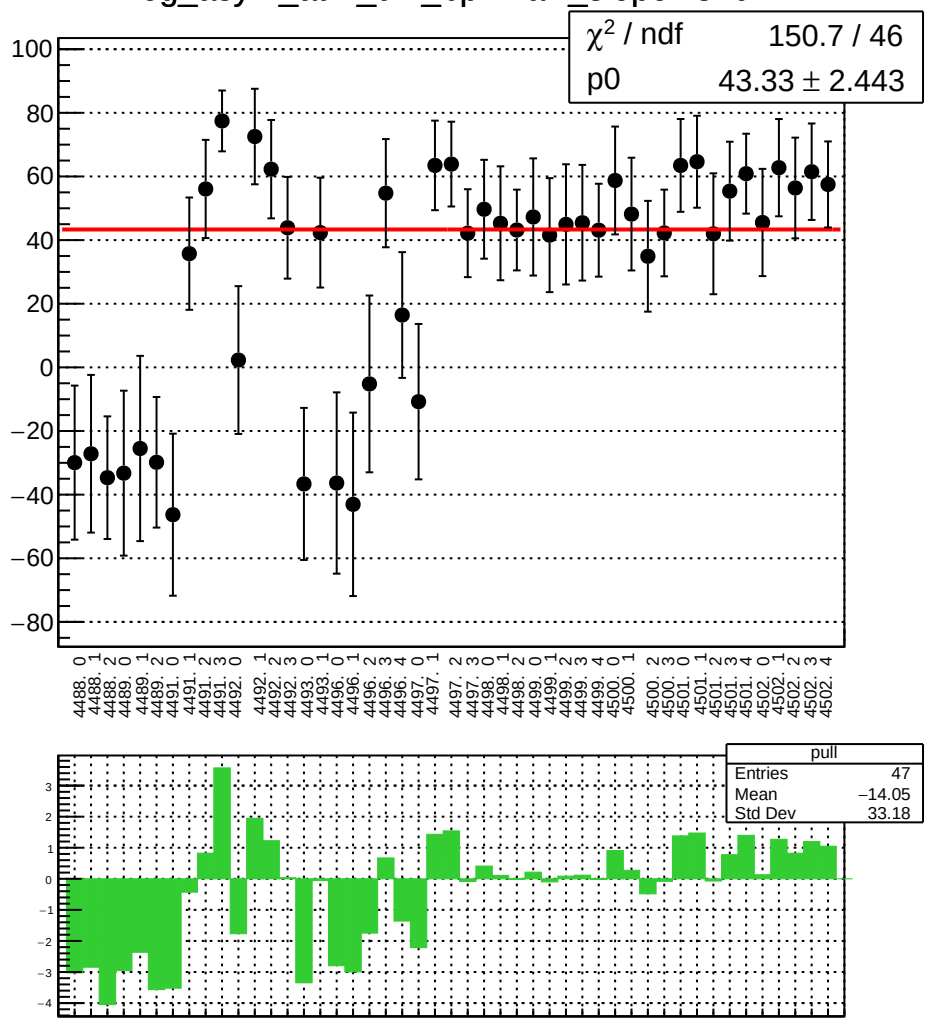

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 76.88 / 46
p0 19.62 ± 2.754
pull
Entries 47
Mean 10.53
Std Dev 9.945

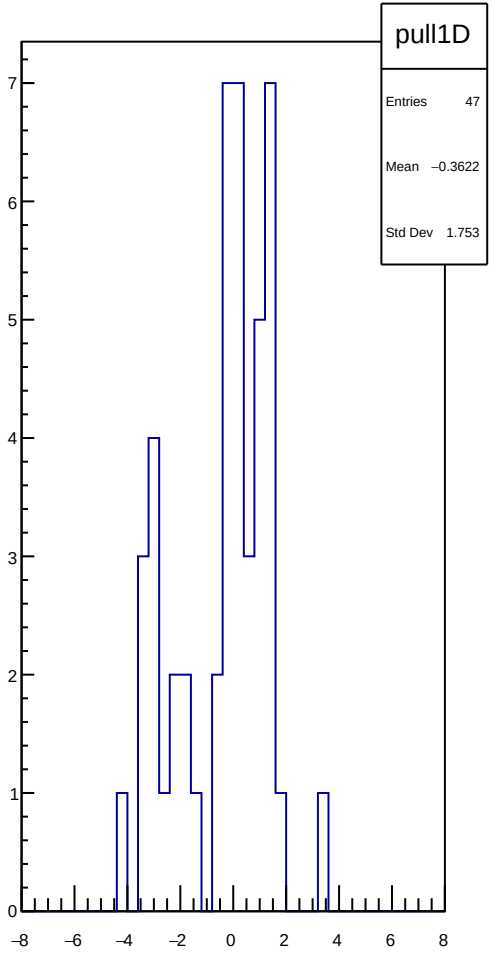

pull1D
Entries 47
Mean 0.2955
Std Dev 1.244

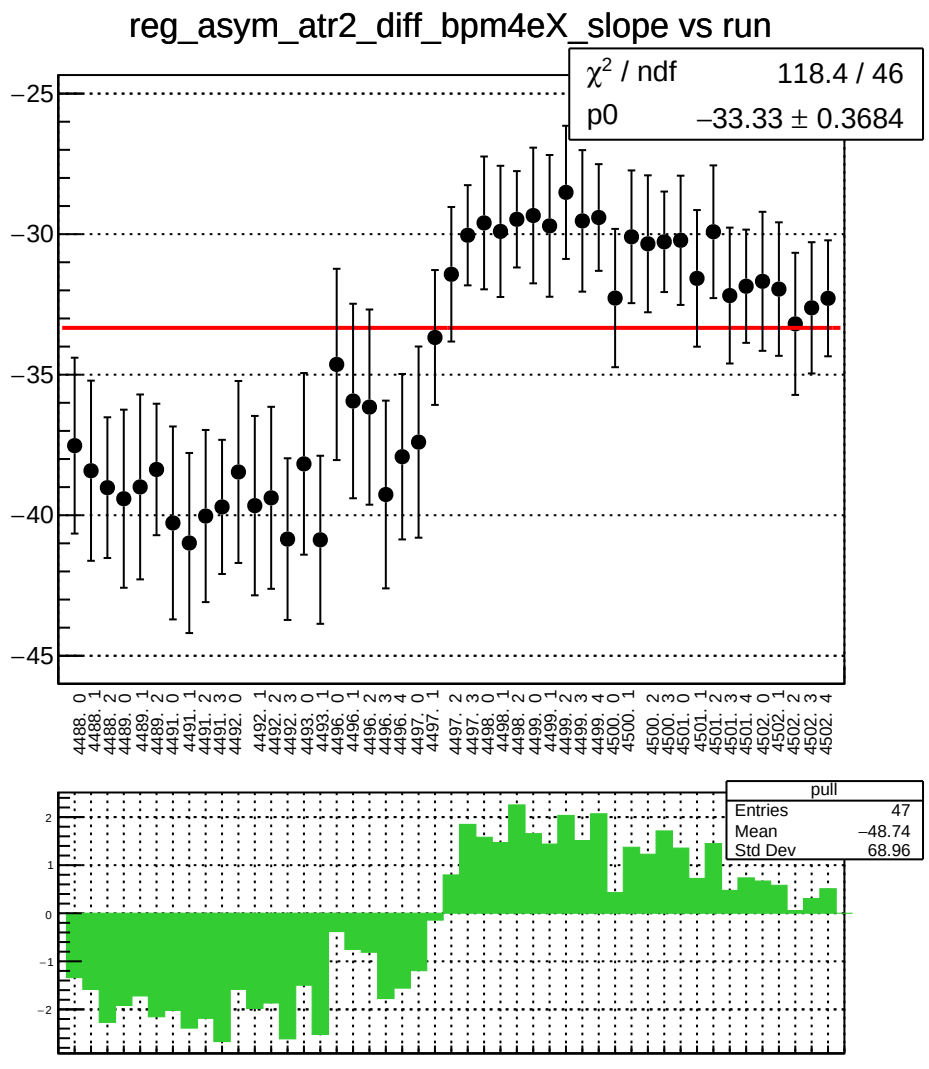

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 111.3 / 46
p0 −308.3 ± 0.5568
pull
Entries 47
Mean −84.44
Std Dev 106

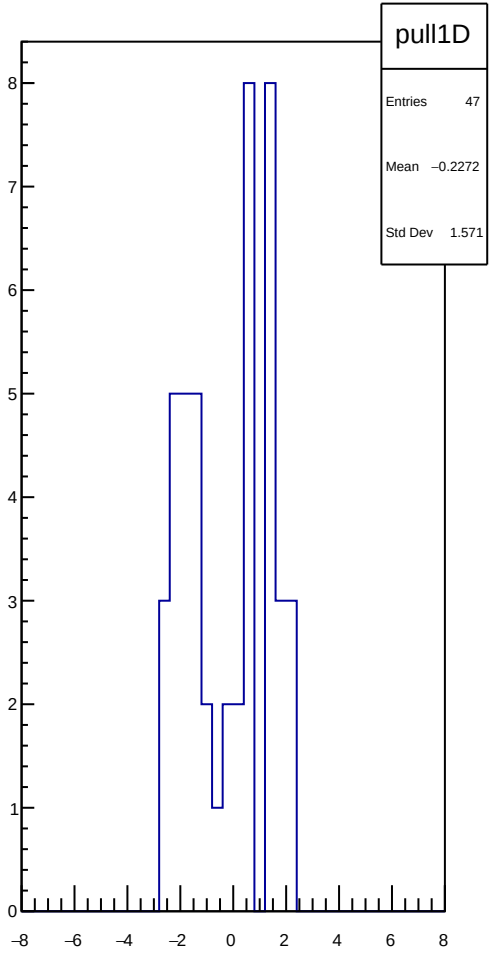

pull1D
Entries 47
Mean 0.1568
Std Dev 1.531

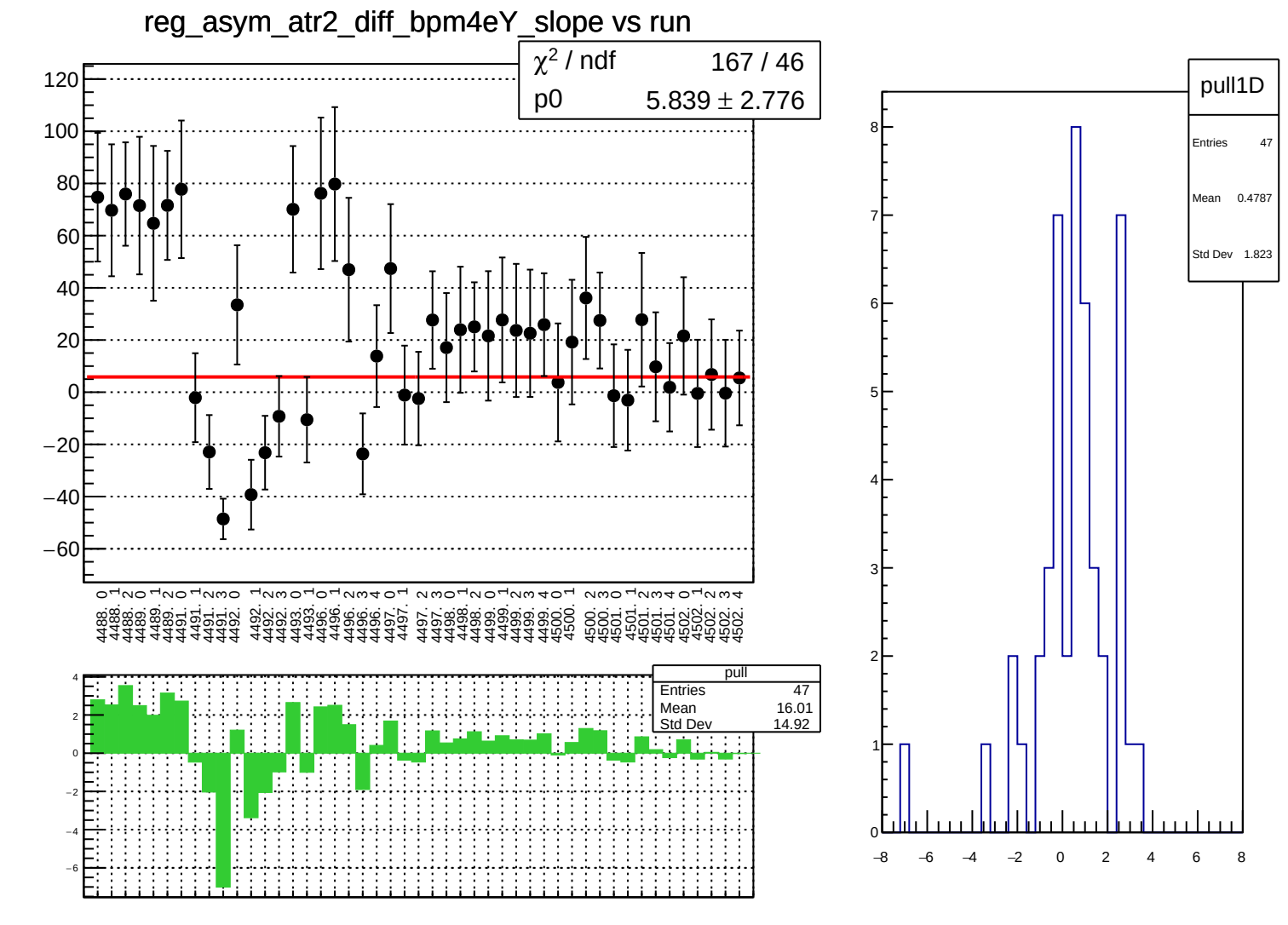

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 85.93 / 46
p0 −13.1 ± 2.183
40
20
0
−20
−40
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −73.85
Std Dev 94.93
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.1615
Std Dev 1.342
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

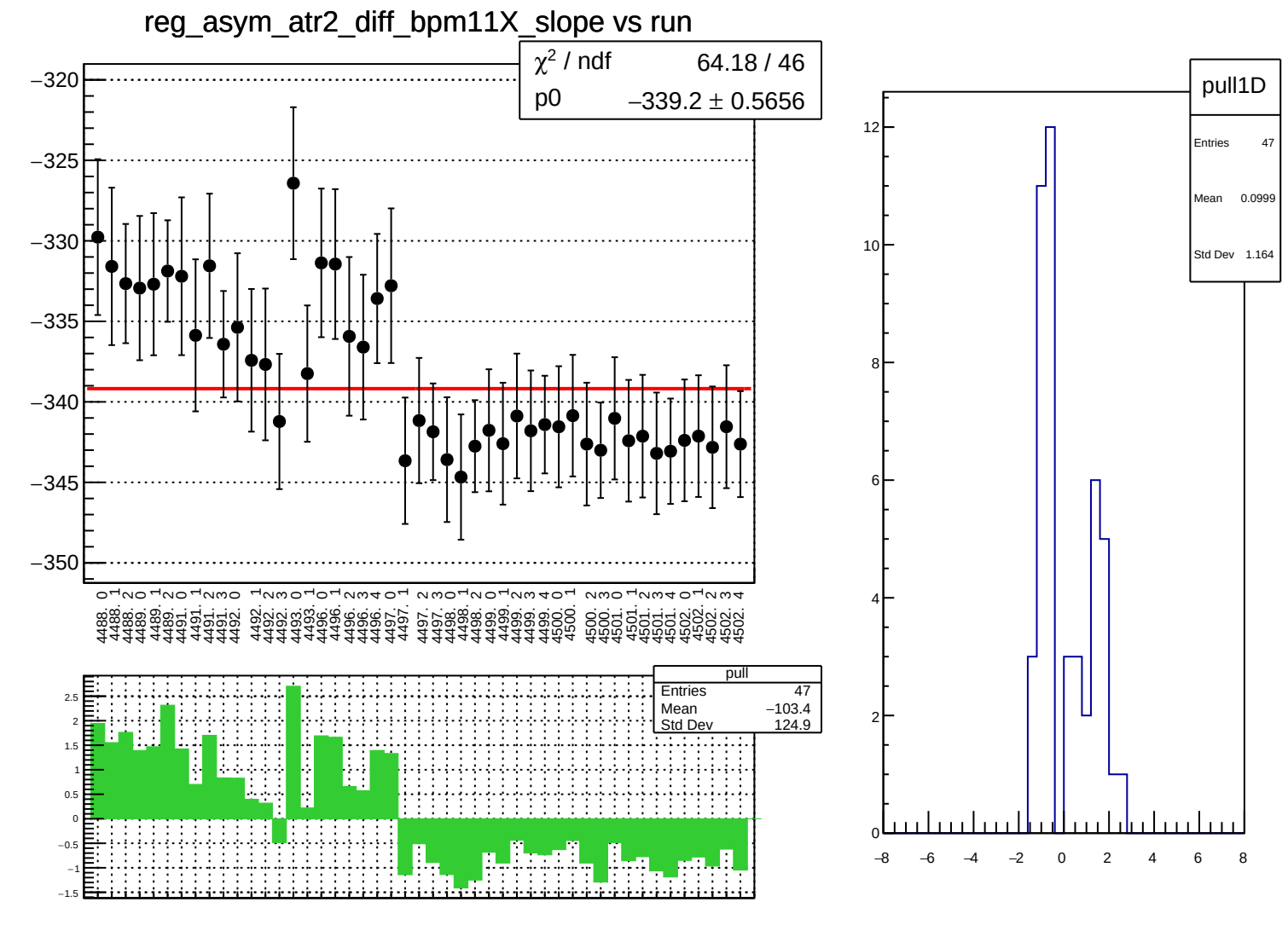

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 150.7 / 46
p0 43.33 ± 2.443
pull
Entries 47
Mean −14.05
Std Dev 33.18

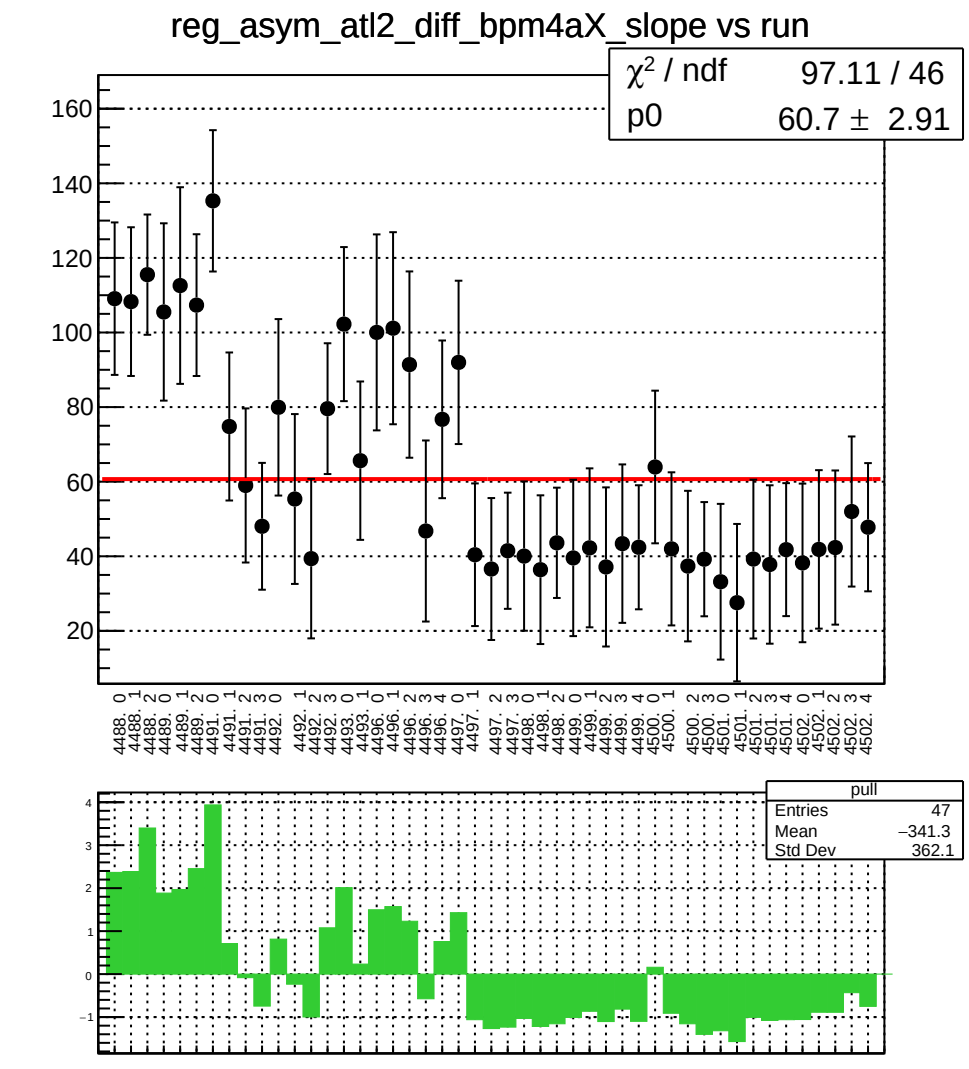

pull1D
Entries 47
Mean −0.3622
Std Dev 1.753

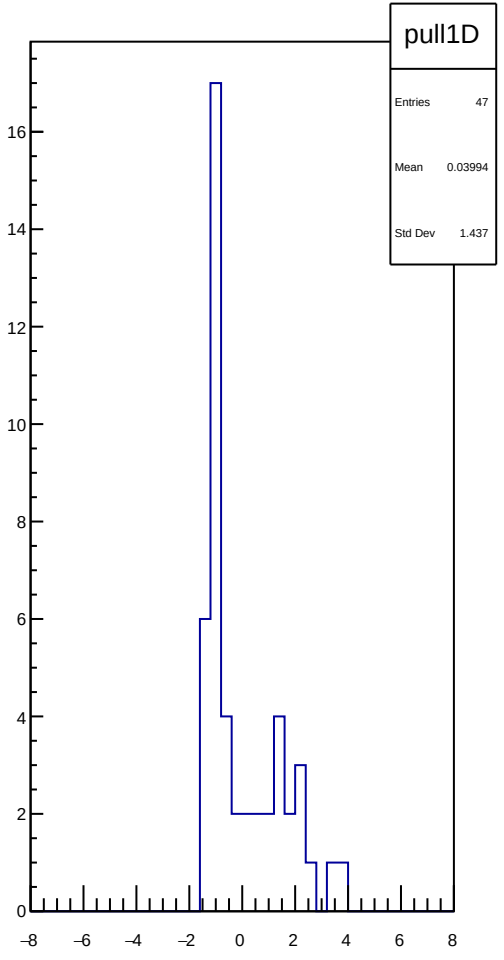

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 118.4 / 46
p0 −33.33 ± 0.3684
pull
Entries 47
Mean −48.74
Std Dev 68.96

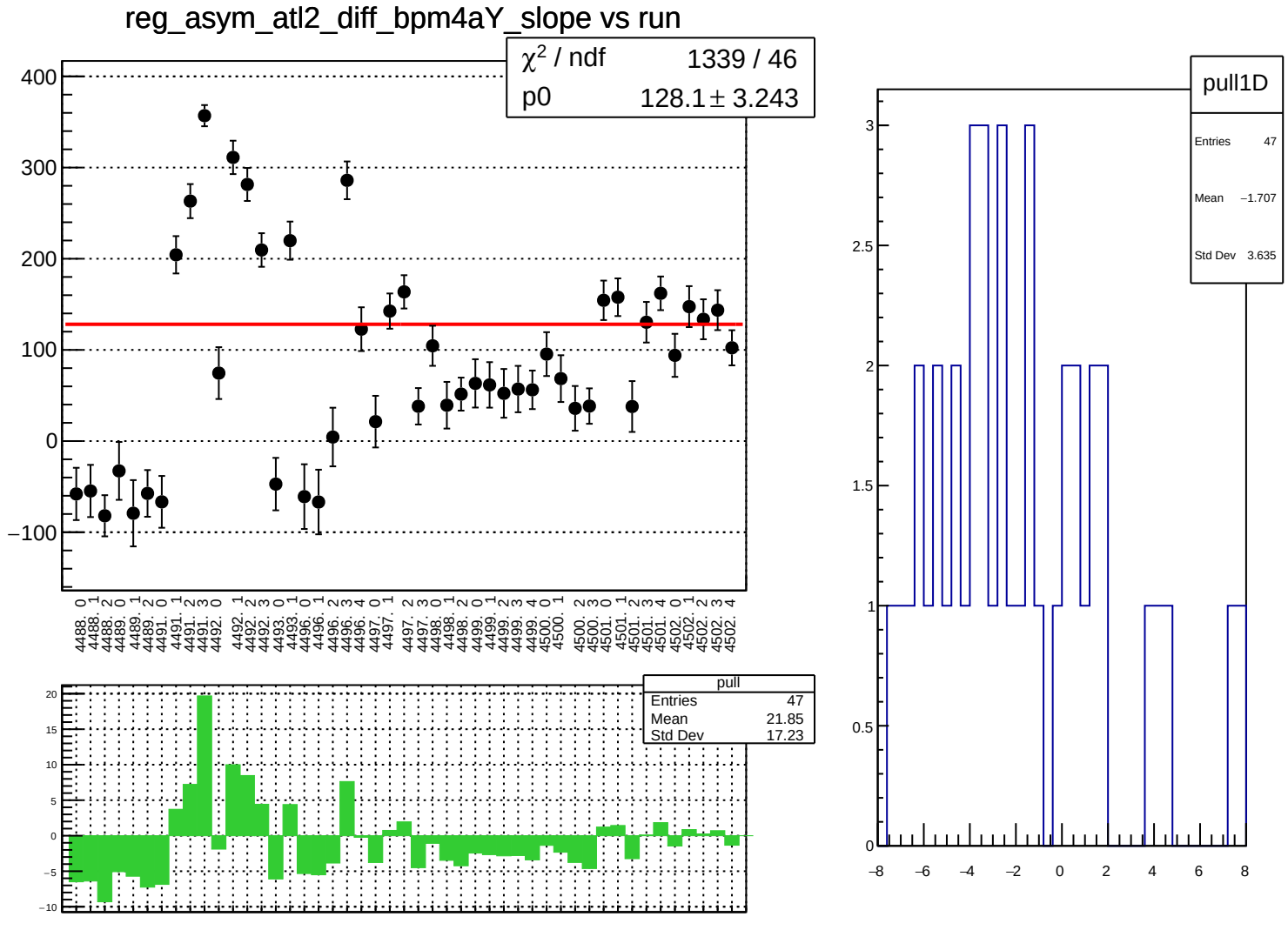

pull1D
Entries 47
Mean −0.2272
Std Dev 1.571

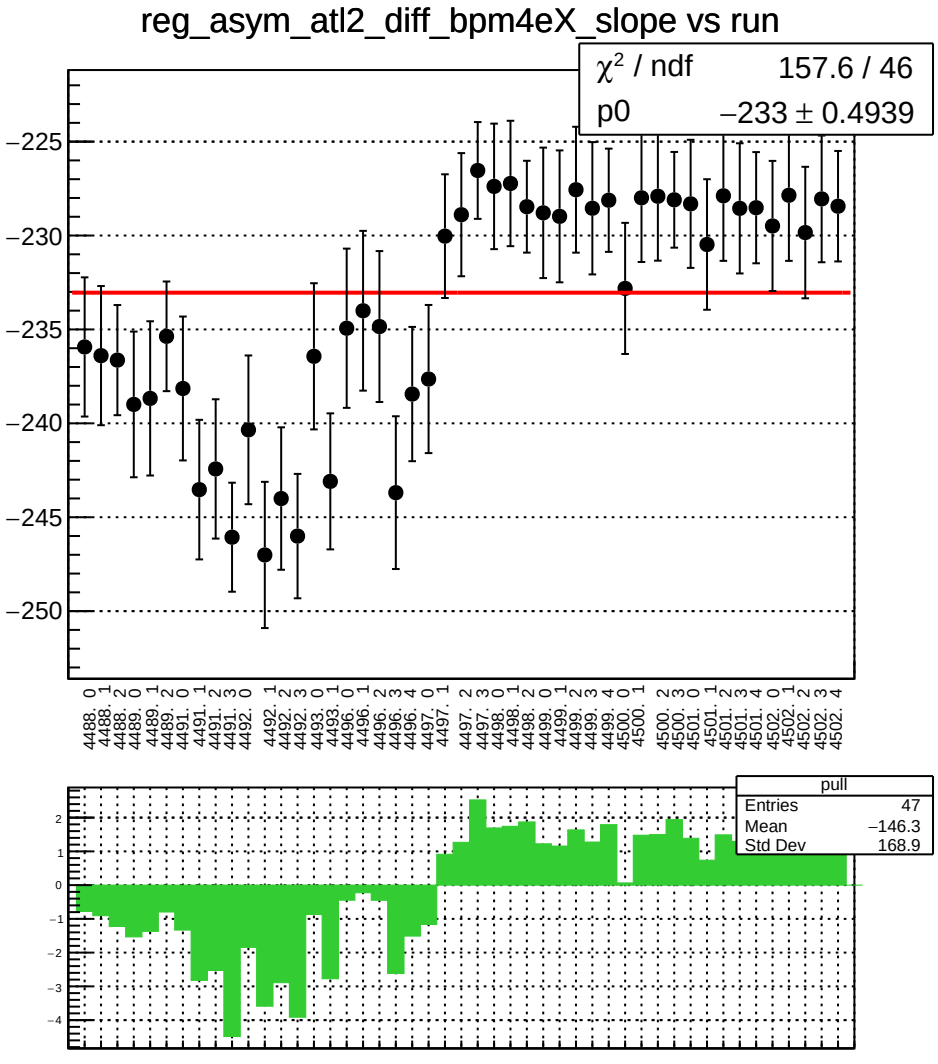

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 167 / 46
p0 5.839 ± 2.776
pull
Entries 47
Mean 16.01
Std Dev 14.92
pull1D
Entries 47
Mean 0.4787
Std Dev 1.823

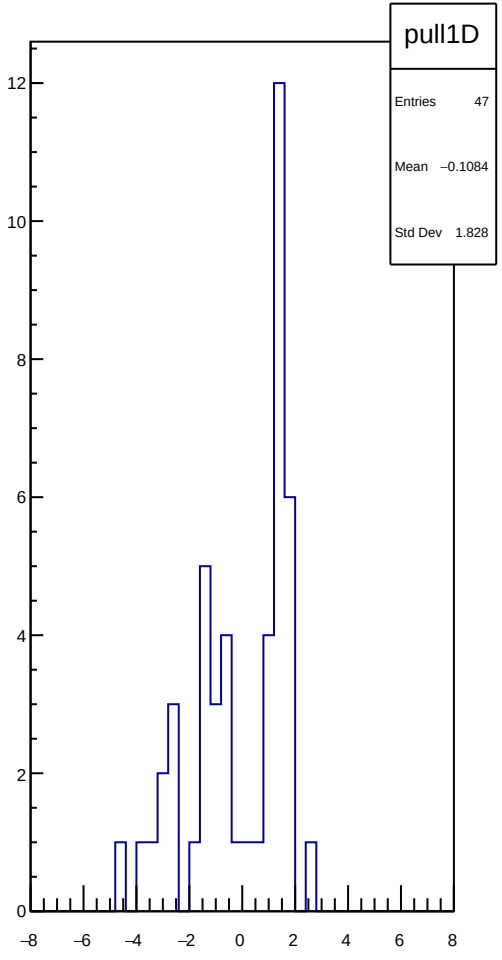

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 64.18 / 46
p0 −339.2 ± 0.5656
pull
Entries 47
Mean −103.4
Std Dev 124.9
pull1D
Entries 47
Mean 0.0999
Std Dev 1.164

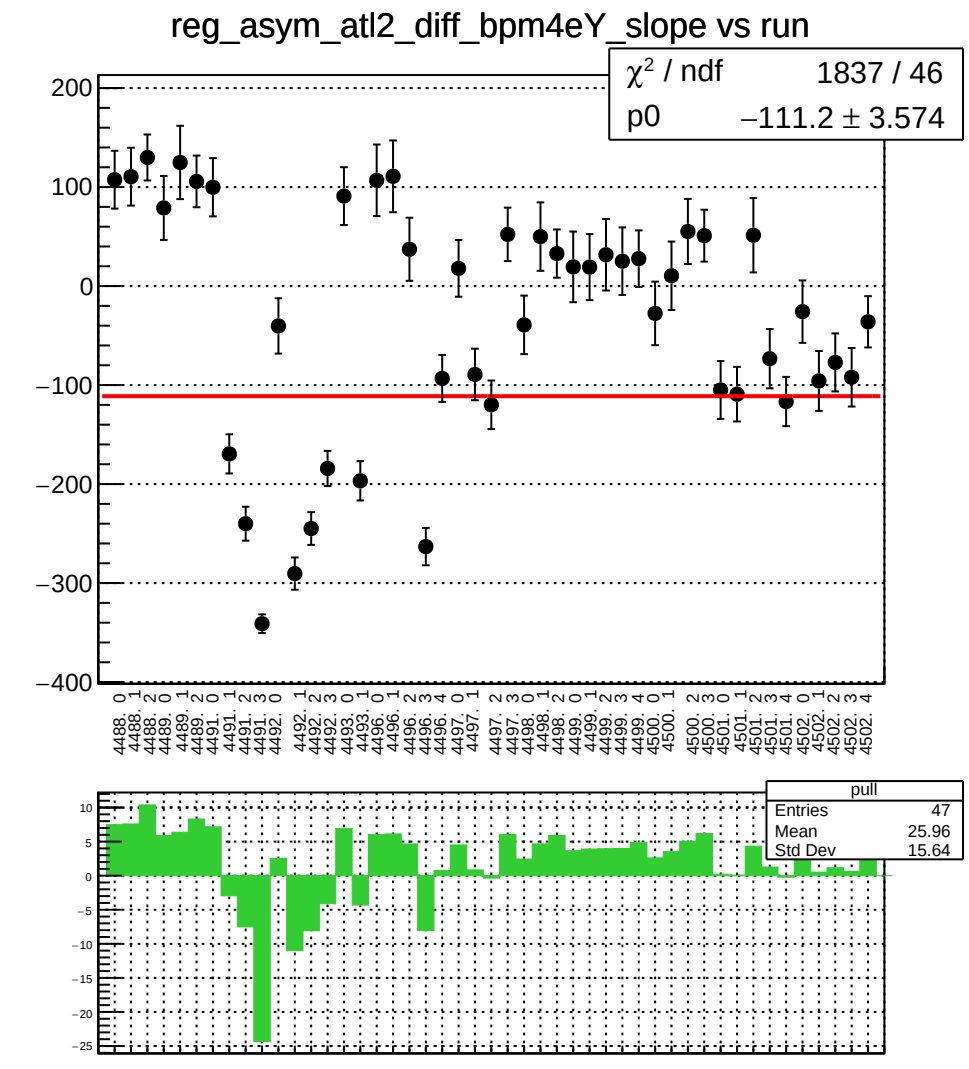

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 97.11 / 46
p0 60.7 ± 2.91
pull
Entries 47
Mean −341.3
Std Dev 362.1

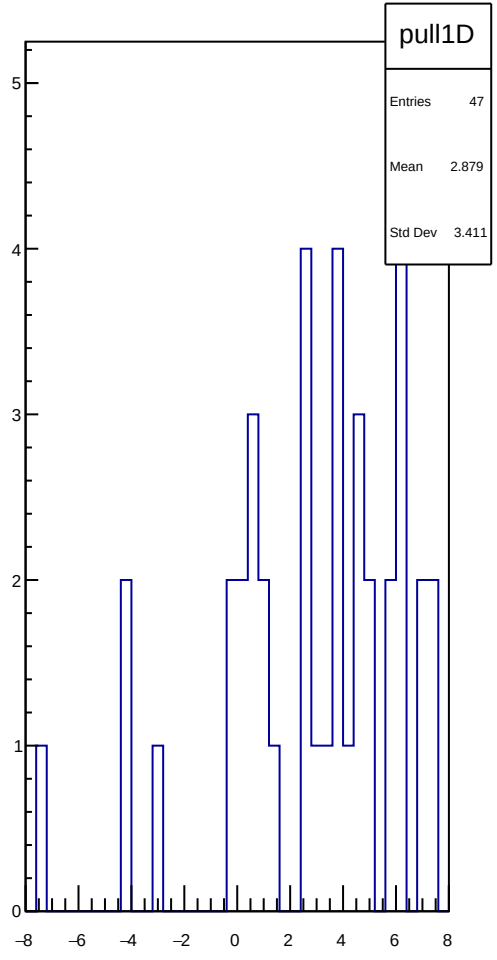

pull1D
Entries 47
Mean 0.03994
Std Dev 1.437

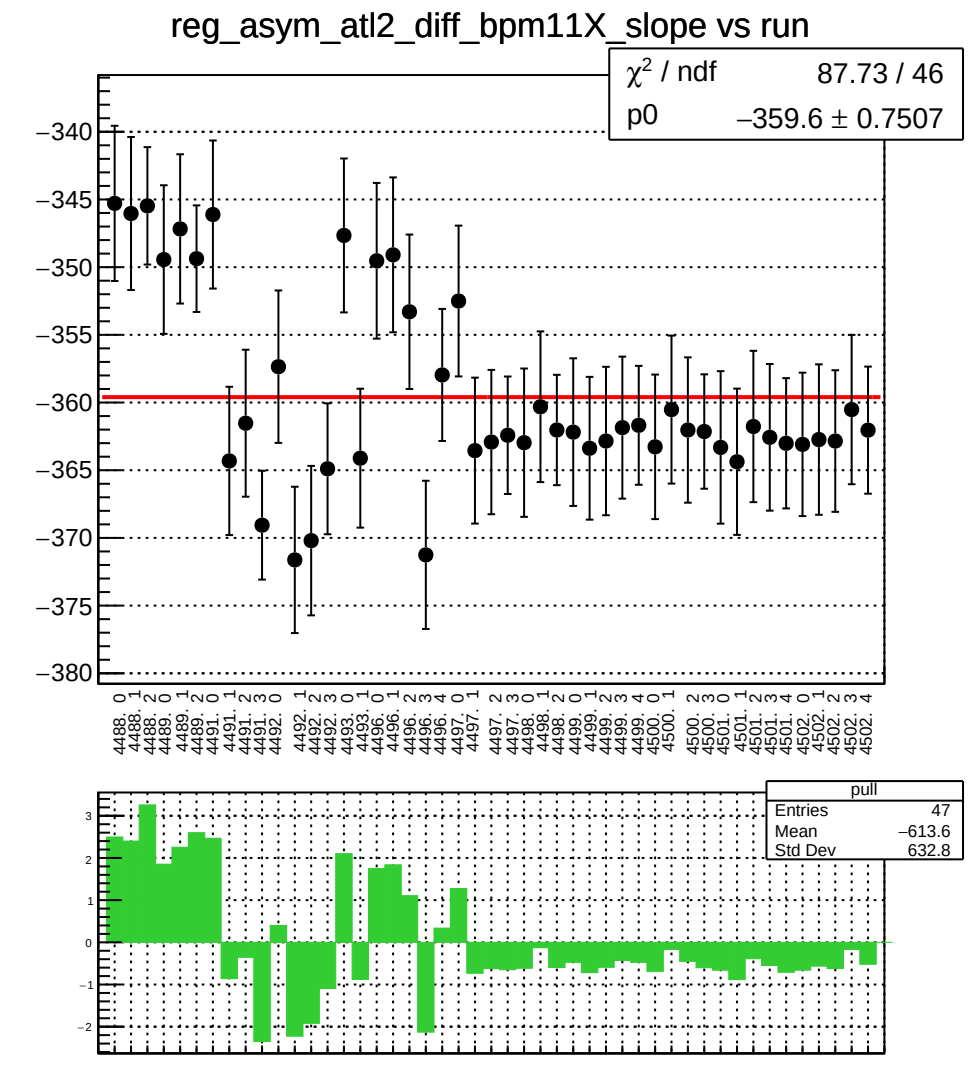

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1339 / 46
p0 128.1 ± 3.243
pull
Entries 47
Mean 21.85
Std Dev 17.23
pull1D
Entries 47
Mean −1.707
Std Dev 3.635

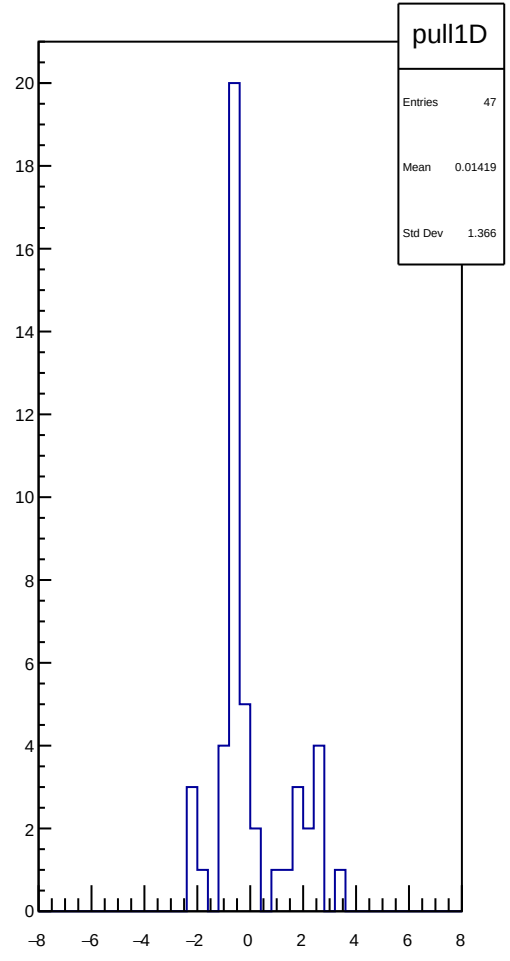

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 157.6 / 46
p0 −233 ± 0.4939
pull
Entries 47
Mean −146.3
Std Dev 168.9

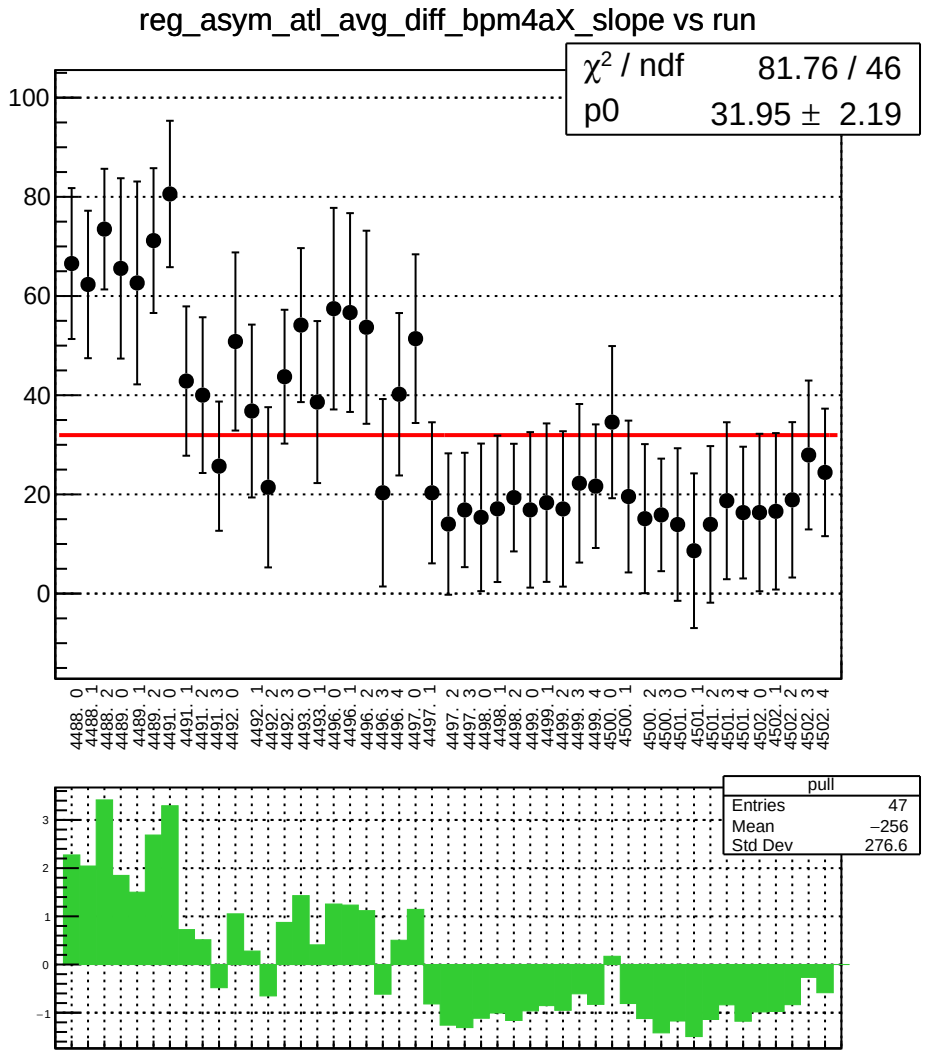

pull1D
Entries 47
Mean −0.1084
Std Dev 1.828

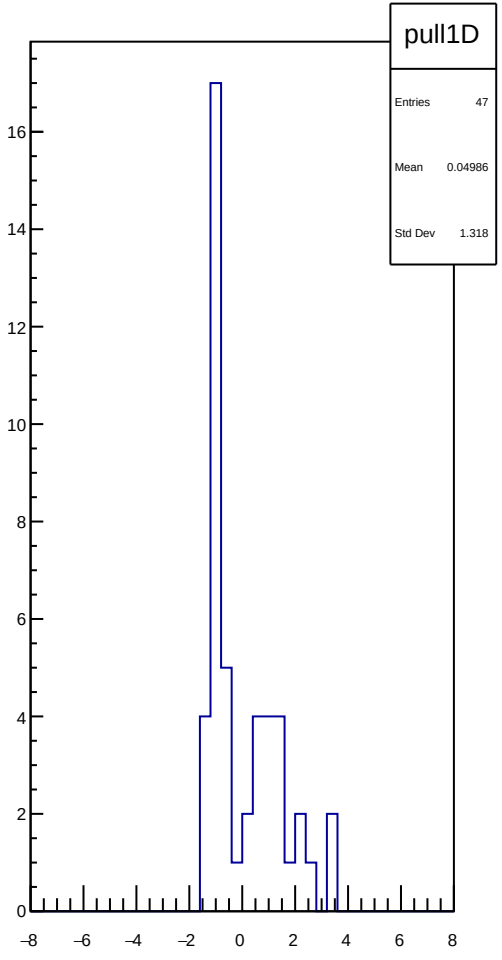

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 1837 / 46
p0 −111.2 ± 3.574
pull
Entries 47
Mean 25.96
Std Dev 15.64

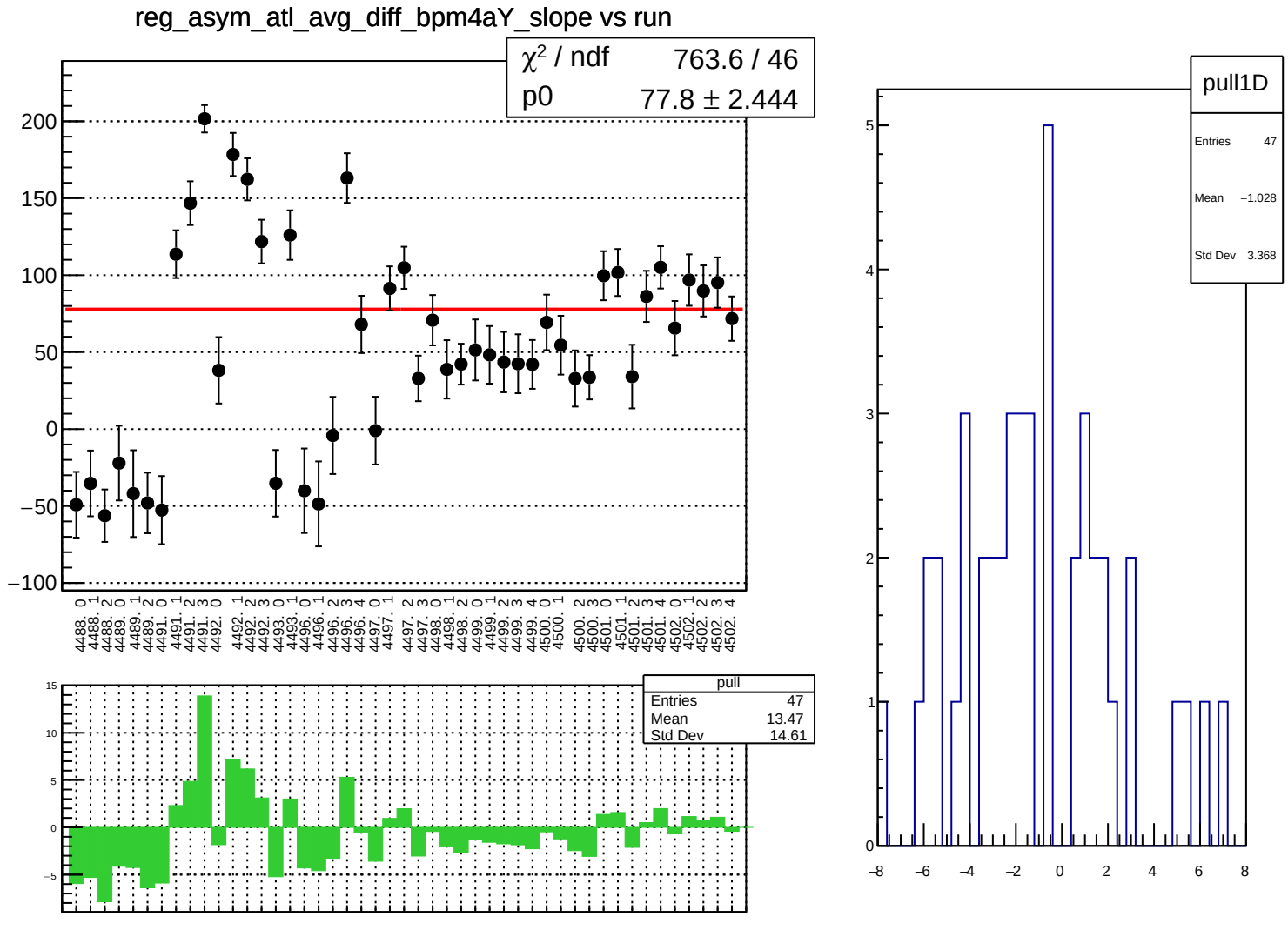

pull1D
Entries 47
Mean 2.879
Std Dev 3.411

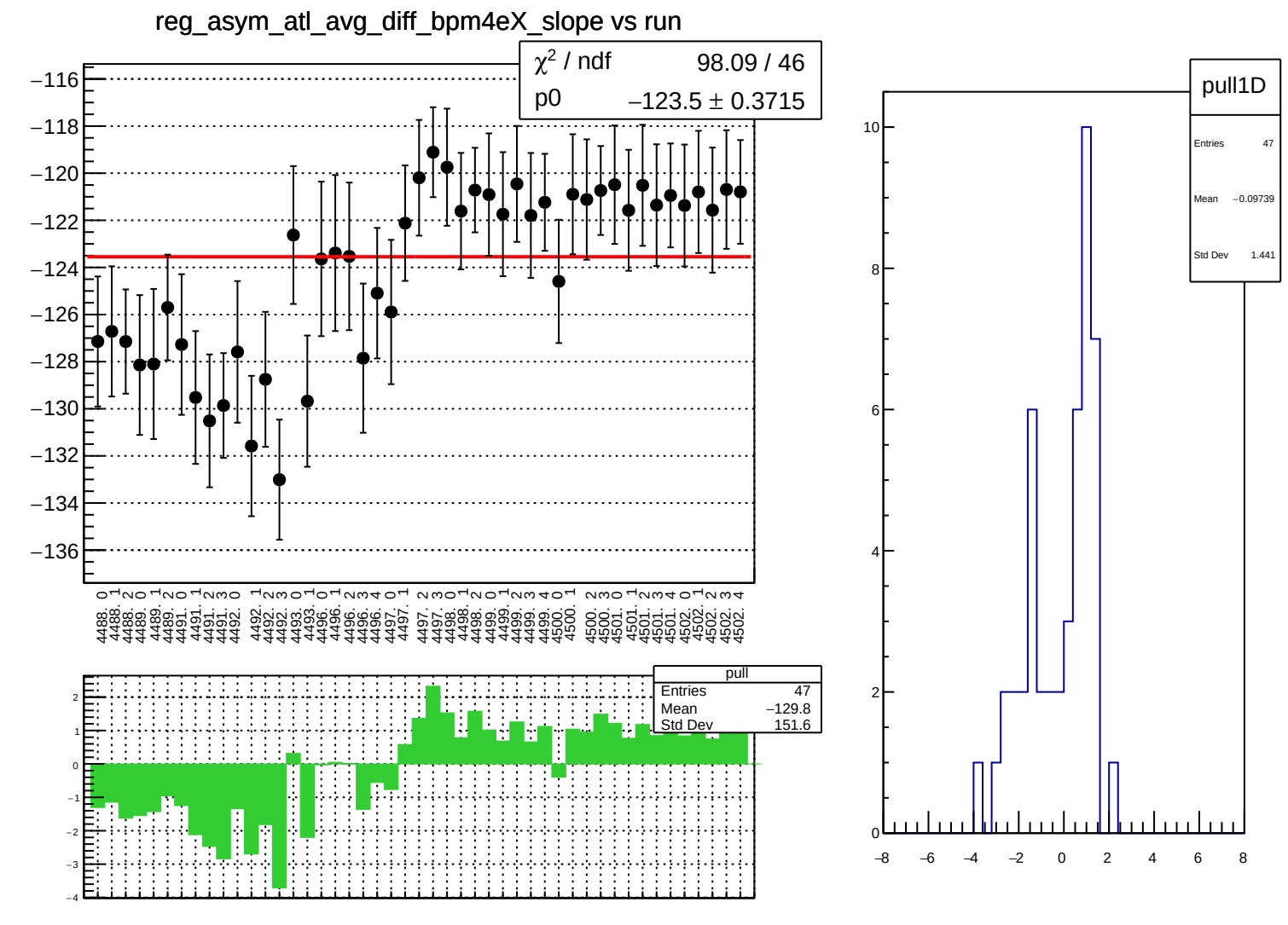

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 87.73 / 46
p0 −359.6 ± 0.7507
pull
Entries 47
Mean −613.6
Std Dev 632.8

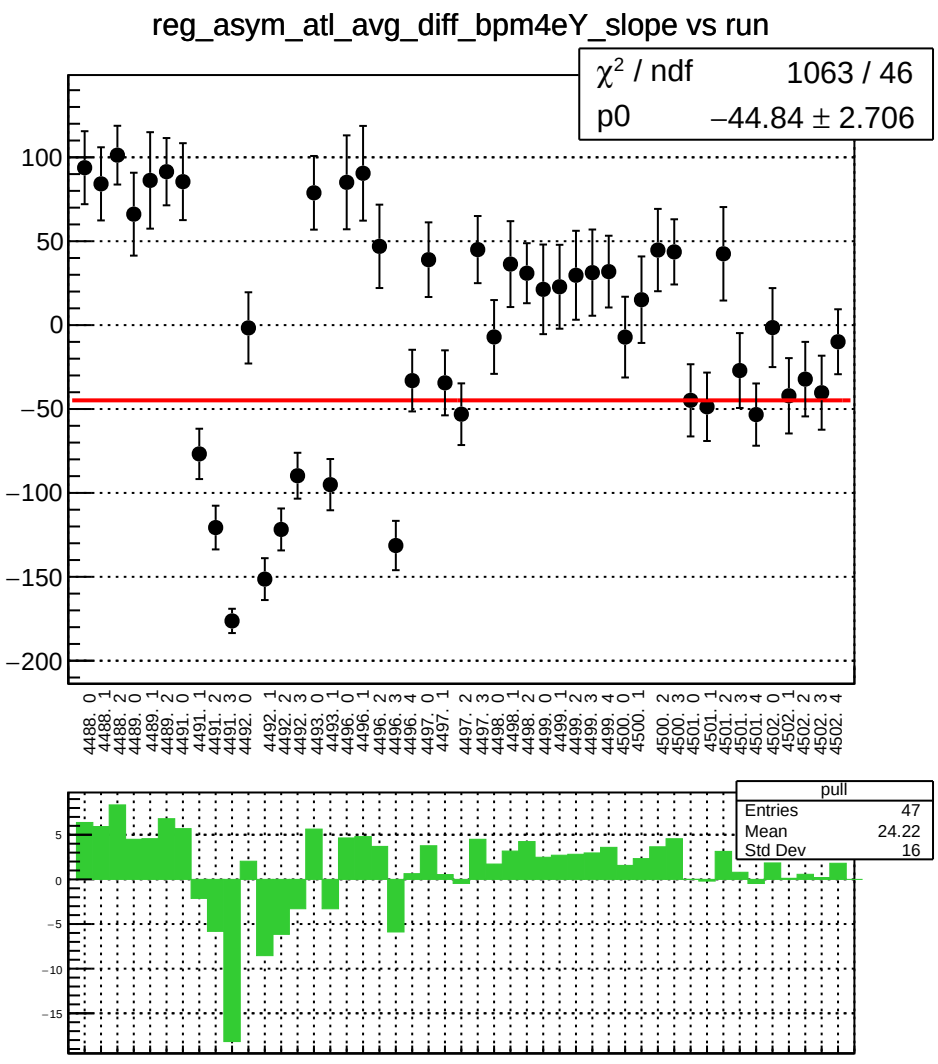

pull1D
Entries 47
Mean 0.01419
Std Dev 1.366

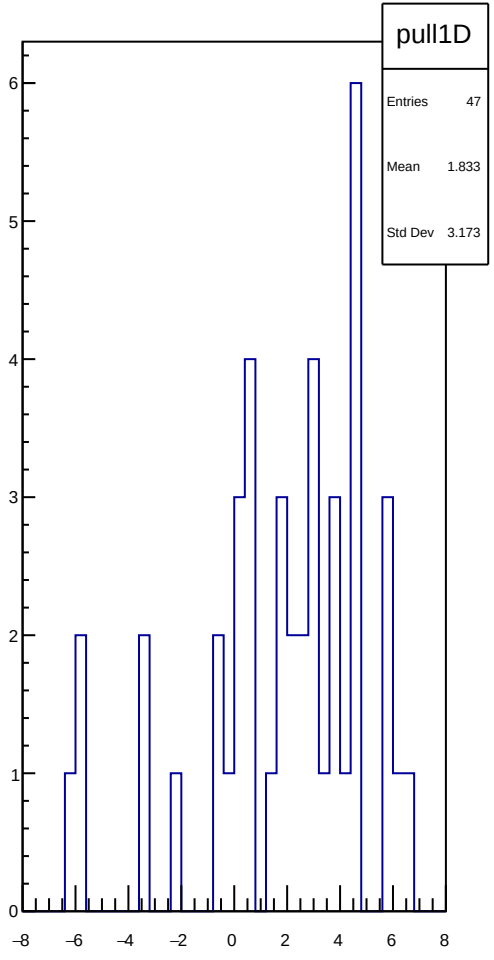

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 81.76 / 46
p0 31.95 ± 2.19
pull
Entries 47
Mean −256
Std Dev 276.6

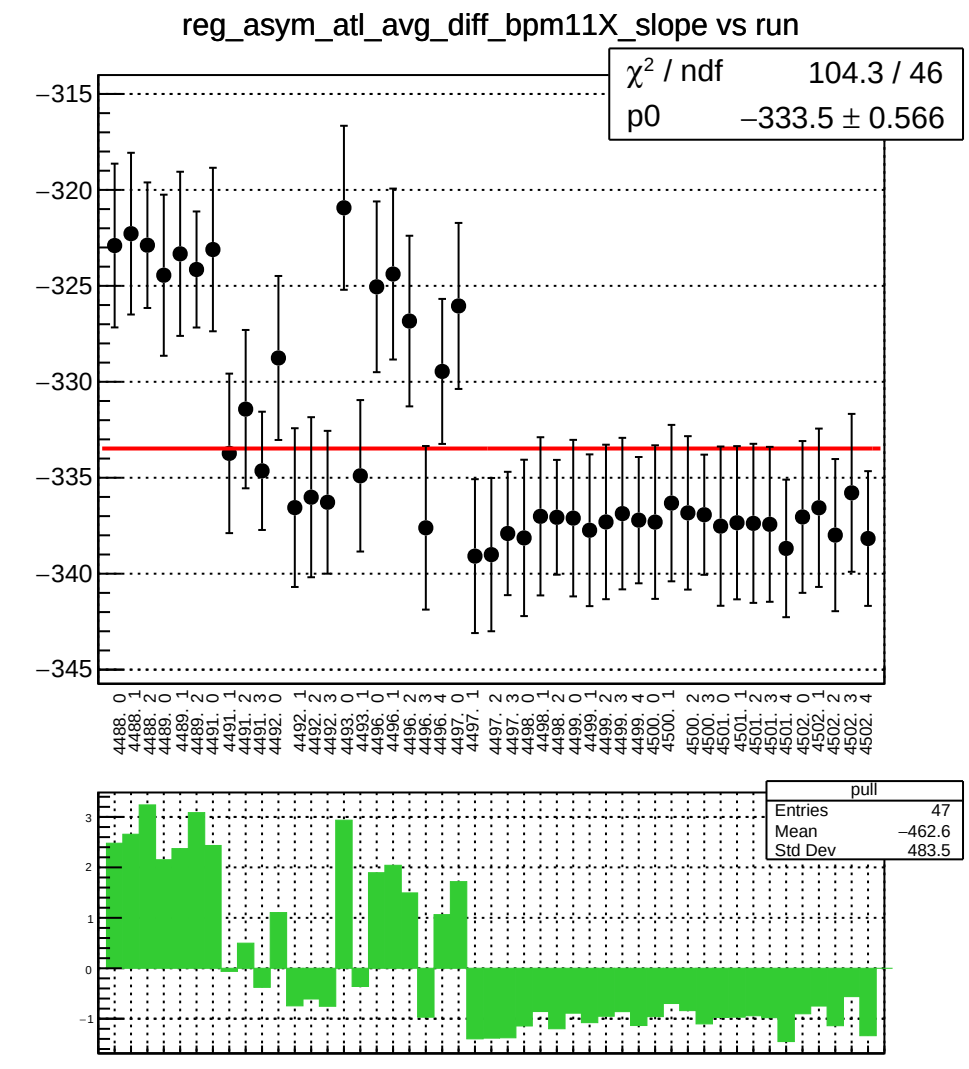

pull1D
Entries 47
Mean 0.04986
Std Dev 1.318

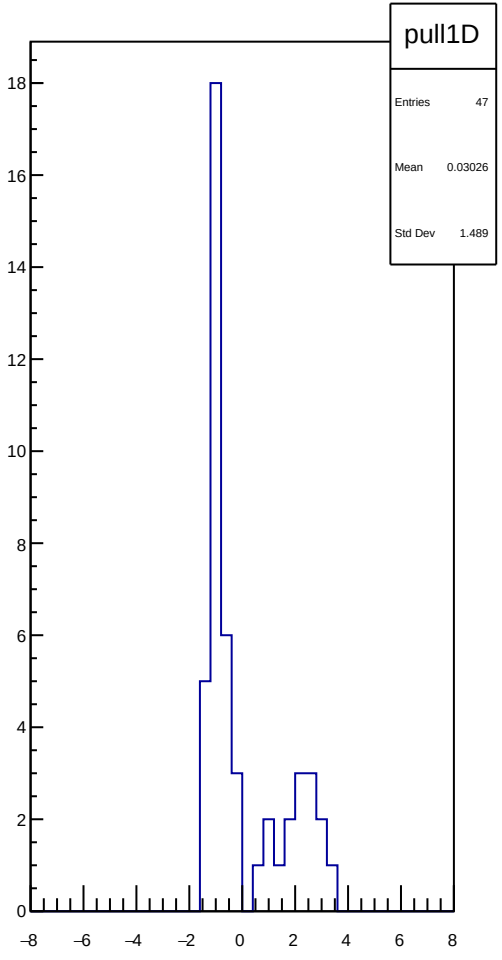

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 763.6 / 46
p0 77.8 ± 2.444
pull
Entries 47
Mean 13.47
Std Dev 14.61
pull1D
Entries 47
Mean −1.028
Std Dev 3.368

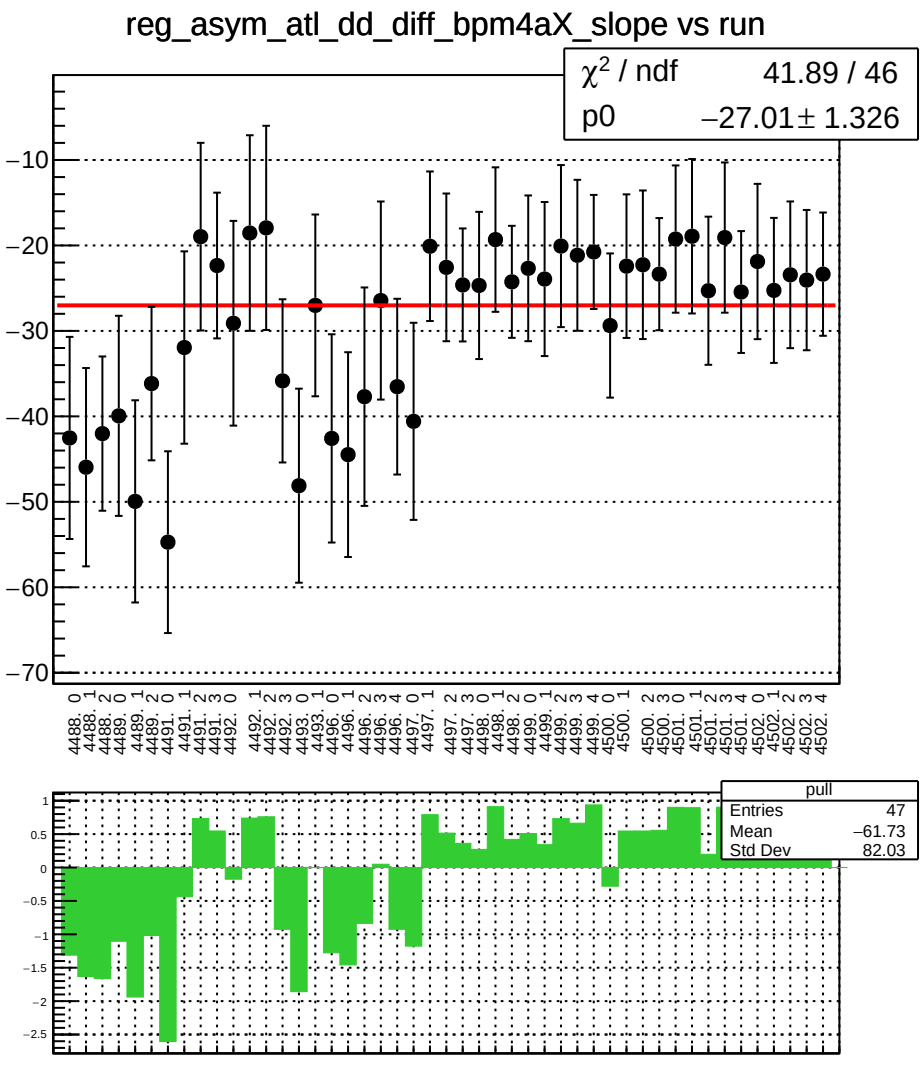

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.09 / 46
p0 −123.5 ± 0.3715
pull
Entries 47
Mean −129.8
Std Dev 151.6
pull1D
Entries 47
Mean −0.09739
Std Dev 1.441

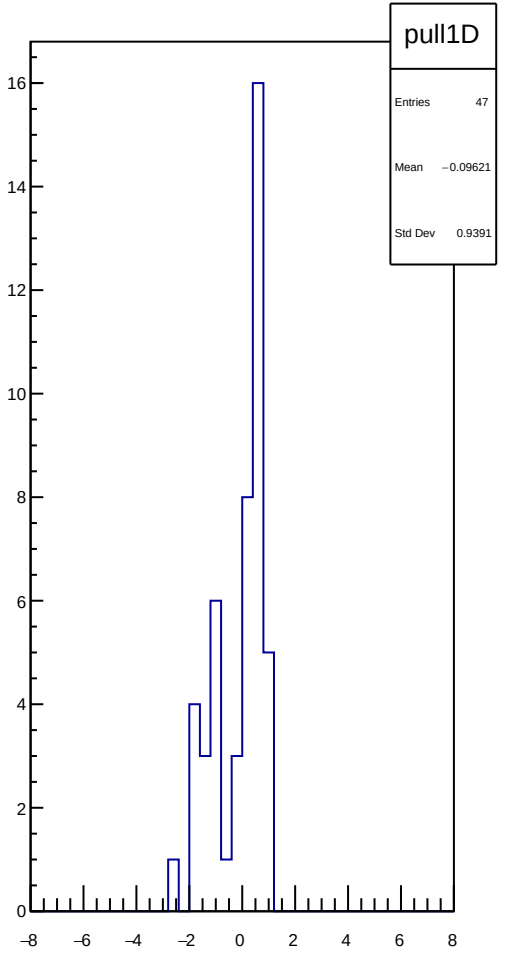

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 1063 / 46
p0 −44.84 ± 2.706
pull
Entries 47
Mean 24.22
Std Dev 16

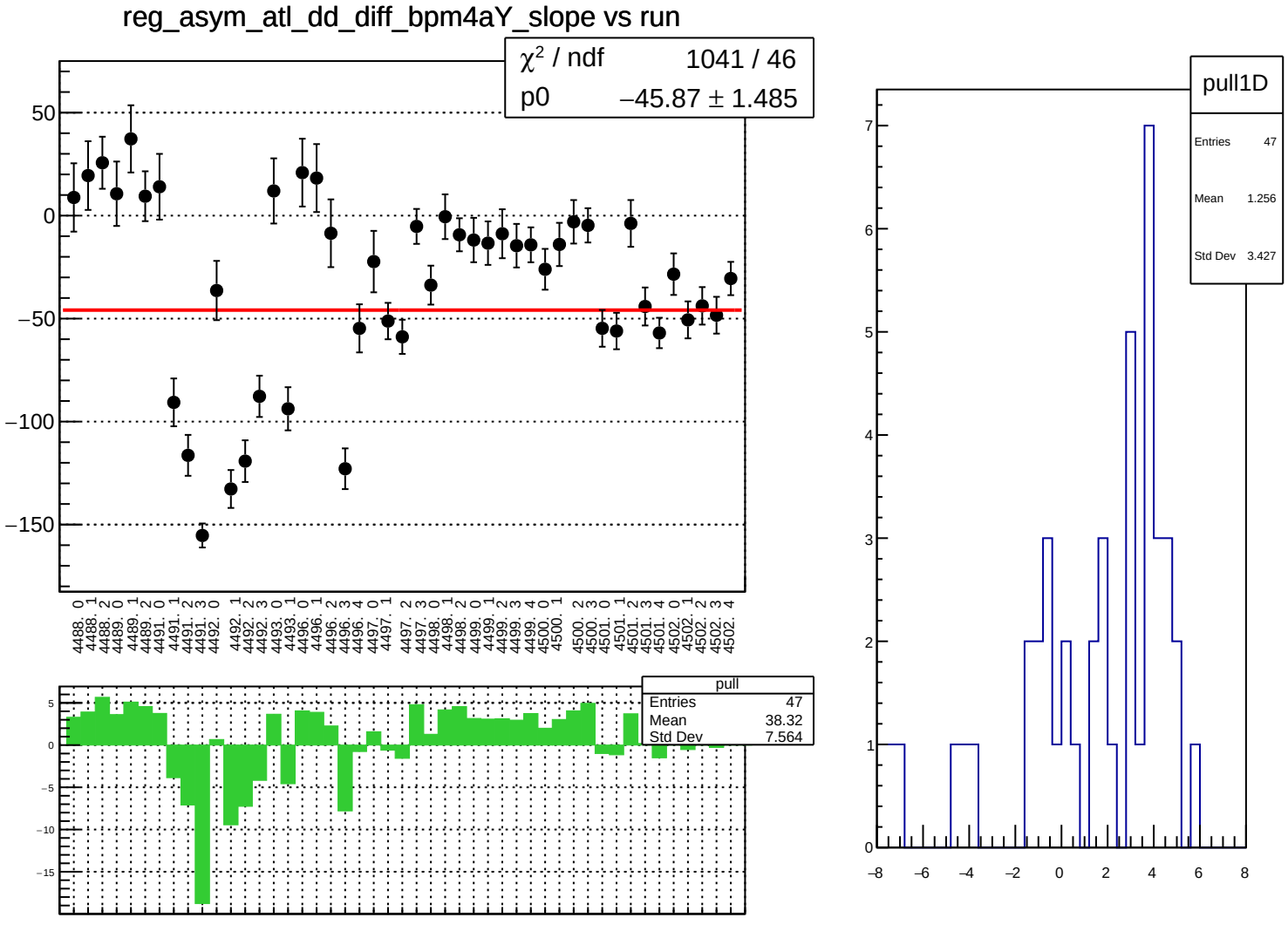

pull1D
Entries 47
Mean 1.833
Std Dev 3.173

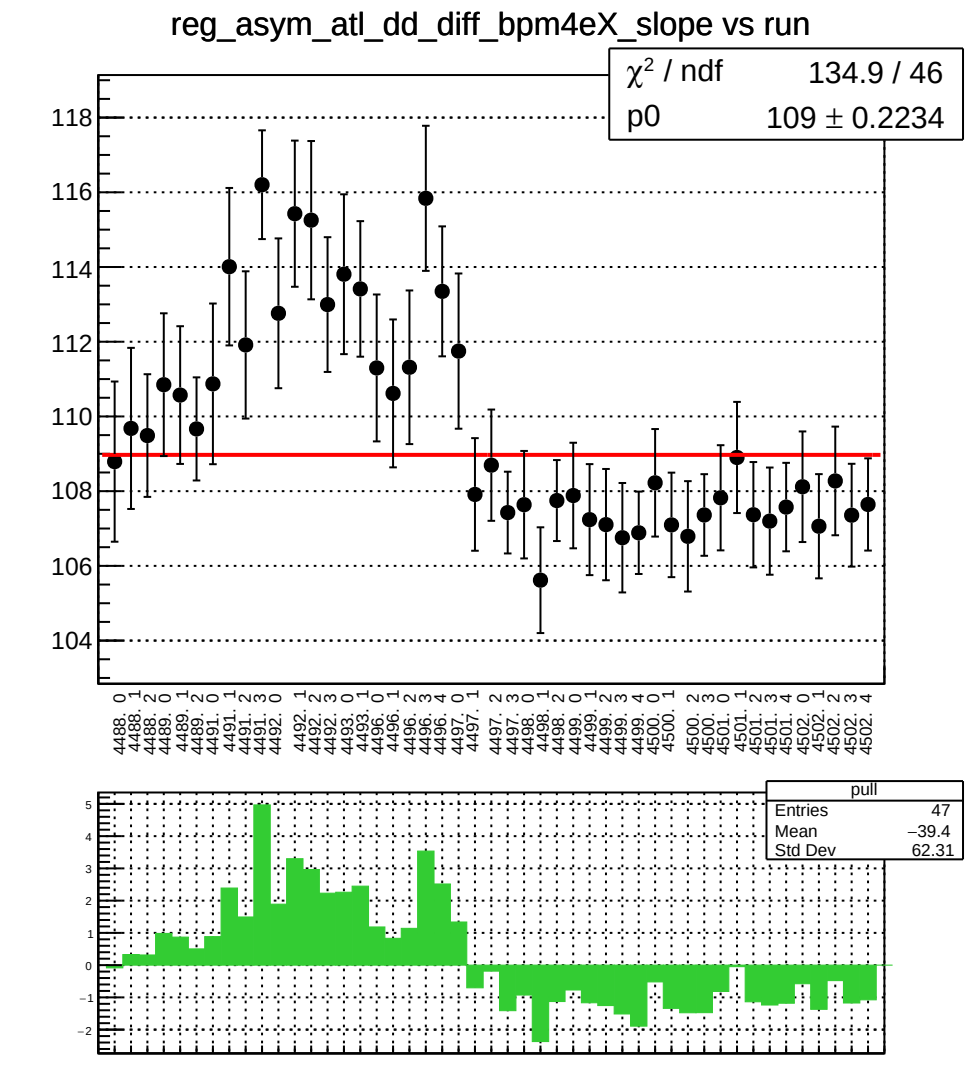

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 104.3 / 46
p0 −333.5 ± 0.566
pull
Entries 47
Mean −462.6
Std Dev 483.5

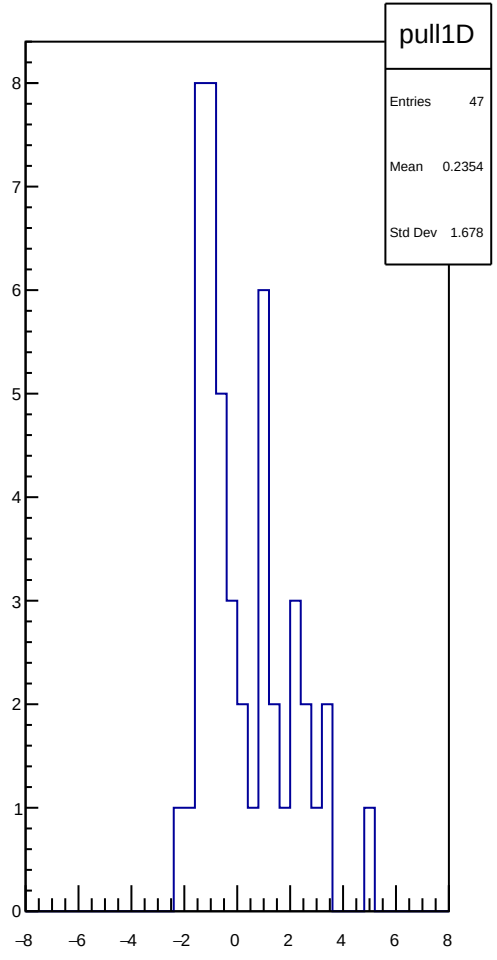

pull1D
Entries 47
Mean 0.03026
Std Dev 1.489

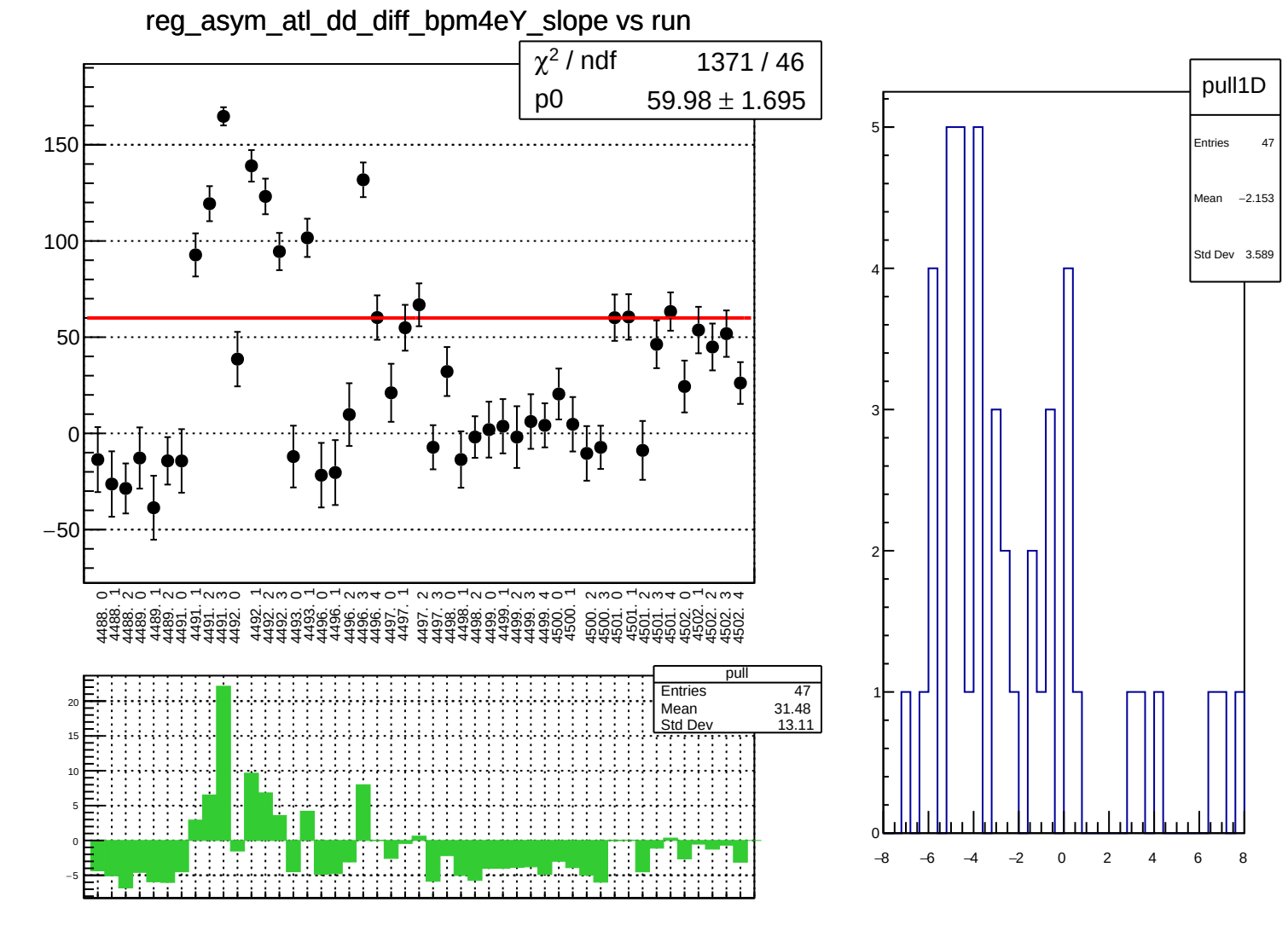

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 41.89 / 46
p0 −27.01± 1.326
pull
Entries 47
Mean −61.73
Std Dev 82.03

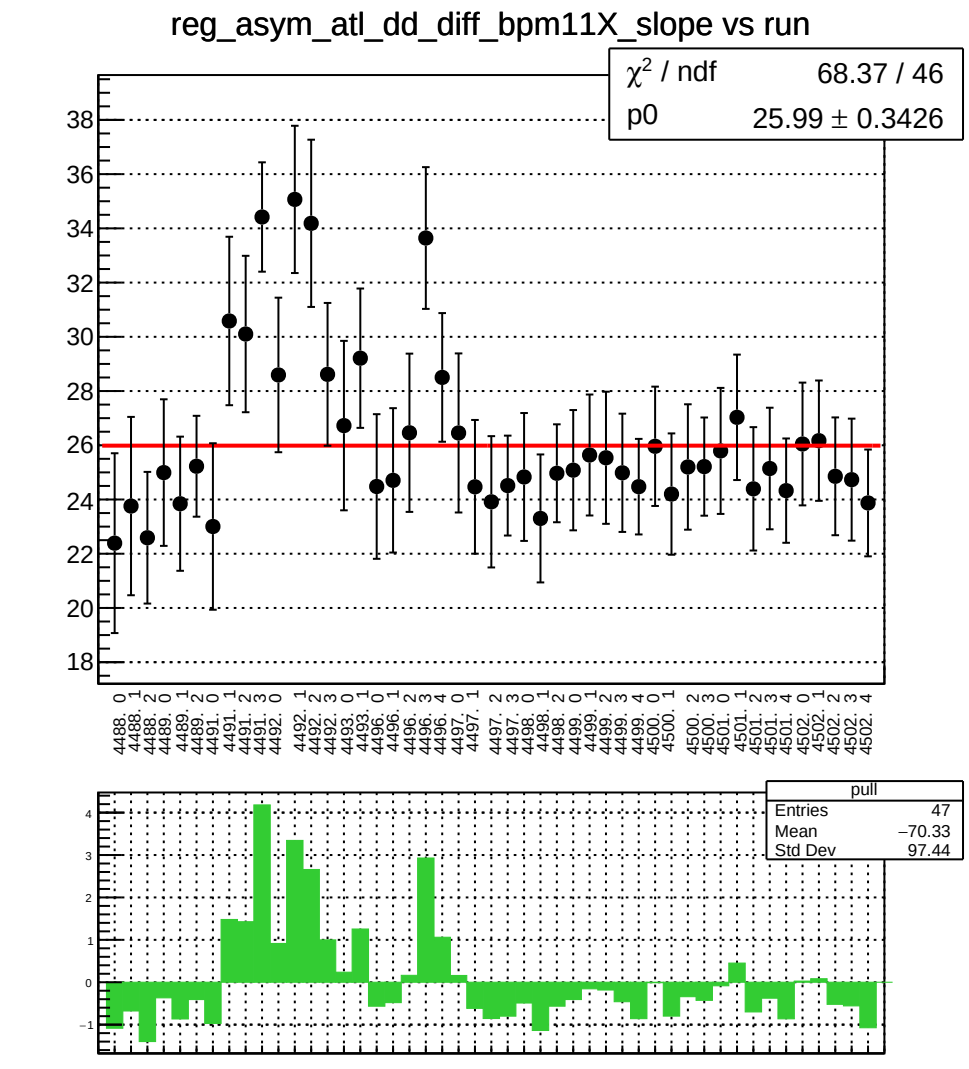

pull1D
Entries 47
Mean −0.09621
Std Dev 0.9391

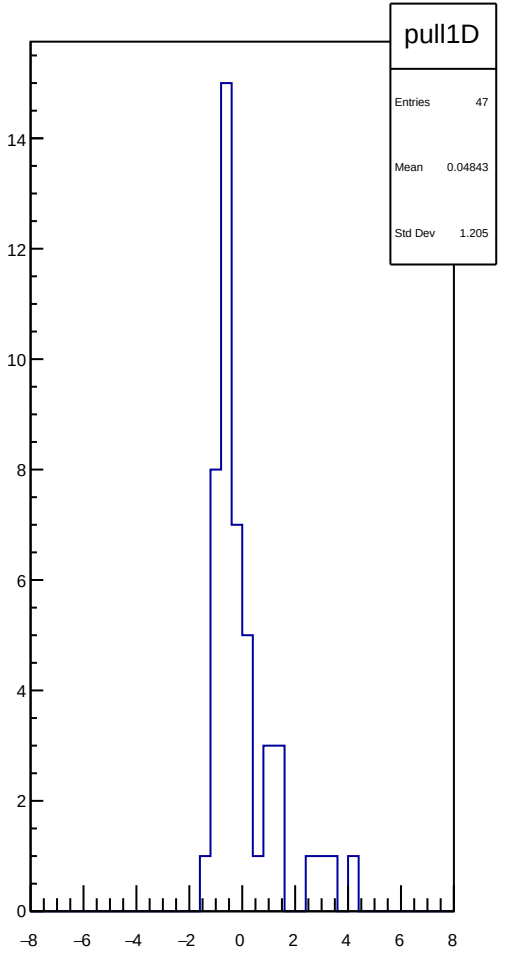

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 1041 / 46
p0 −45.87 ± 1.485
50
0
−50
−100
−150
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 38.32
Std Dev 7.564
5
0
−5
−10
−15
pull1D
Entries 47
Mean 1.256
Std Dev 3.427
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

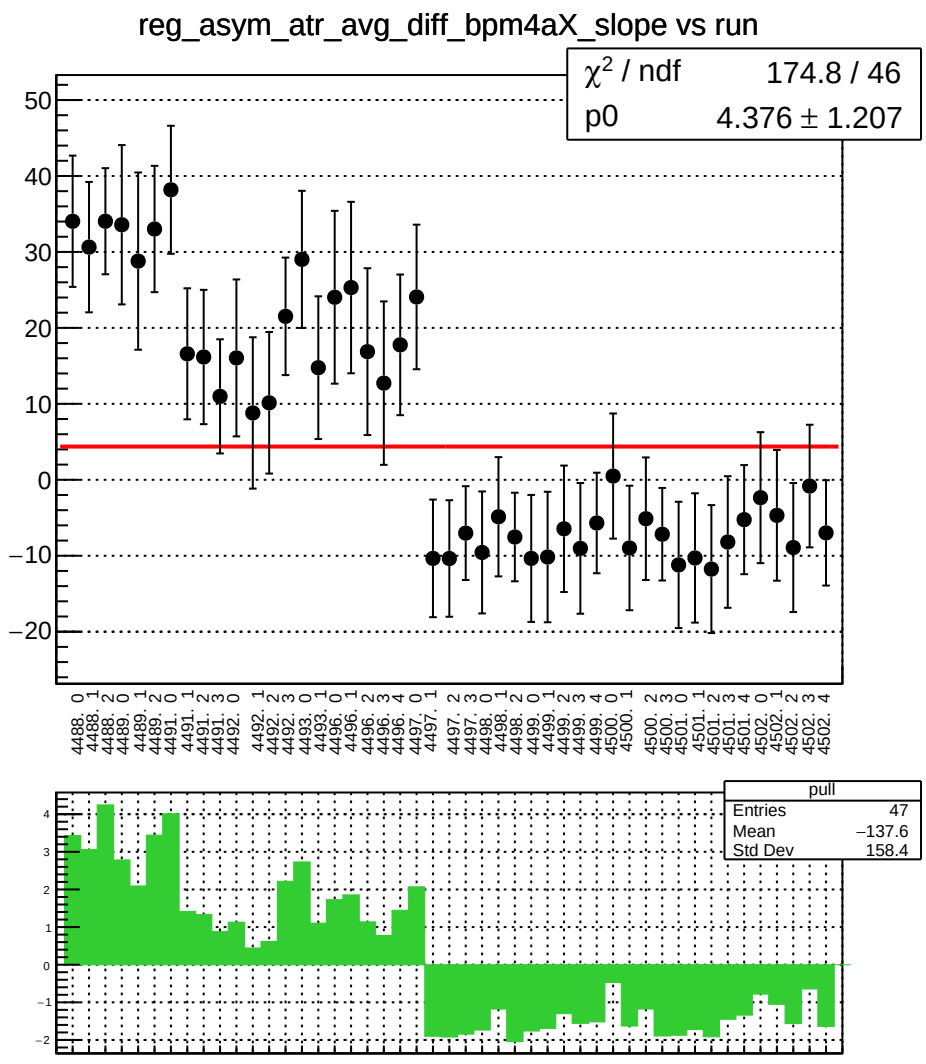

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 134.9 / 46
p0 109 ± 0.2234
pull
Entries 47
Mean −39.4
Std Dev 62.31

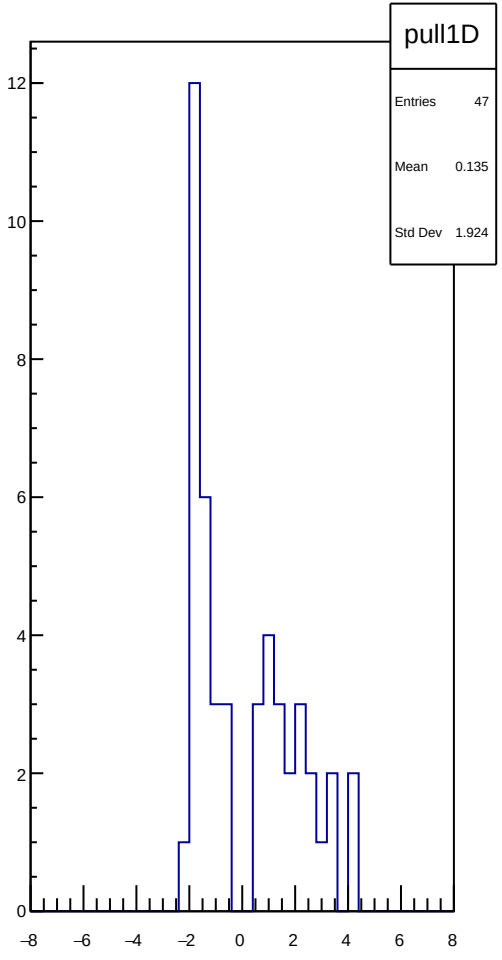

pull1D
Entries 47
Mean 0.2354
Std Dev 1.678

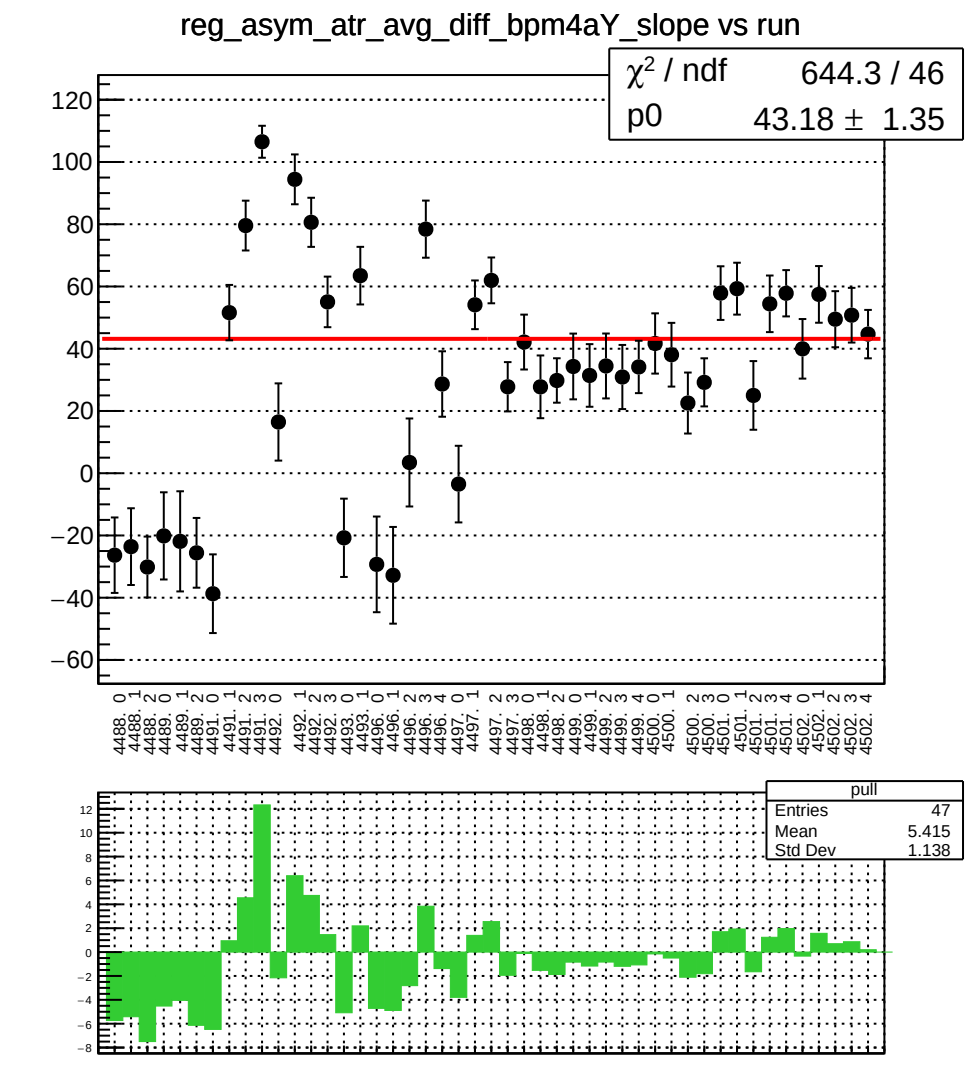

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 1371 / 46
p0 59.98 ± 1.695
150
100
50
0
−50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 31.48
Std Dev 13.11
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.153
Std Dev 3.589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

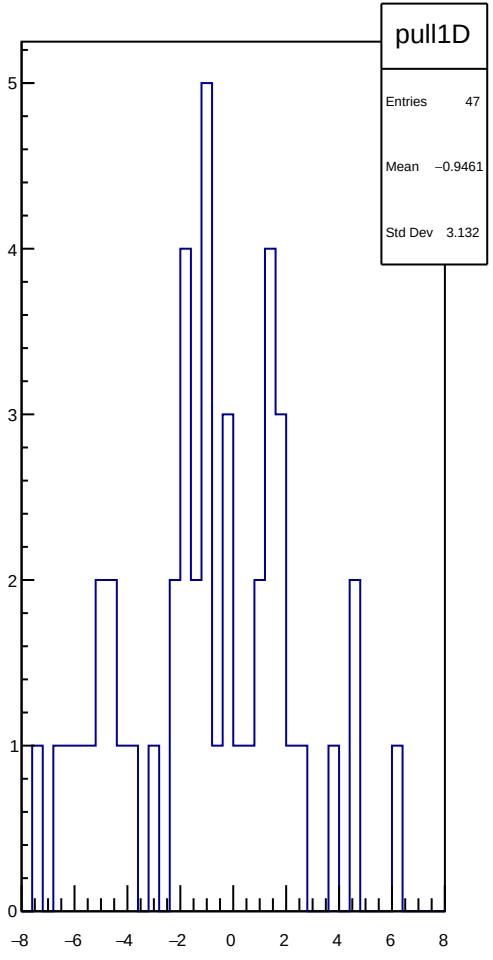

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 68.37 / 46
p0 25.99 ± 0.3426
pull
Entries 47
Mean −70.33
Std Dev 97.44

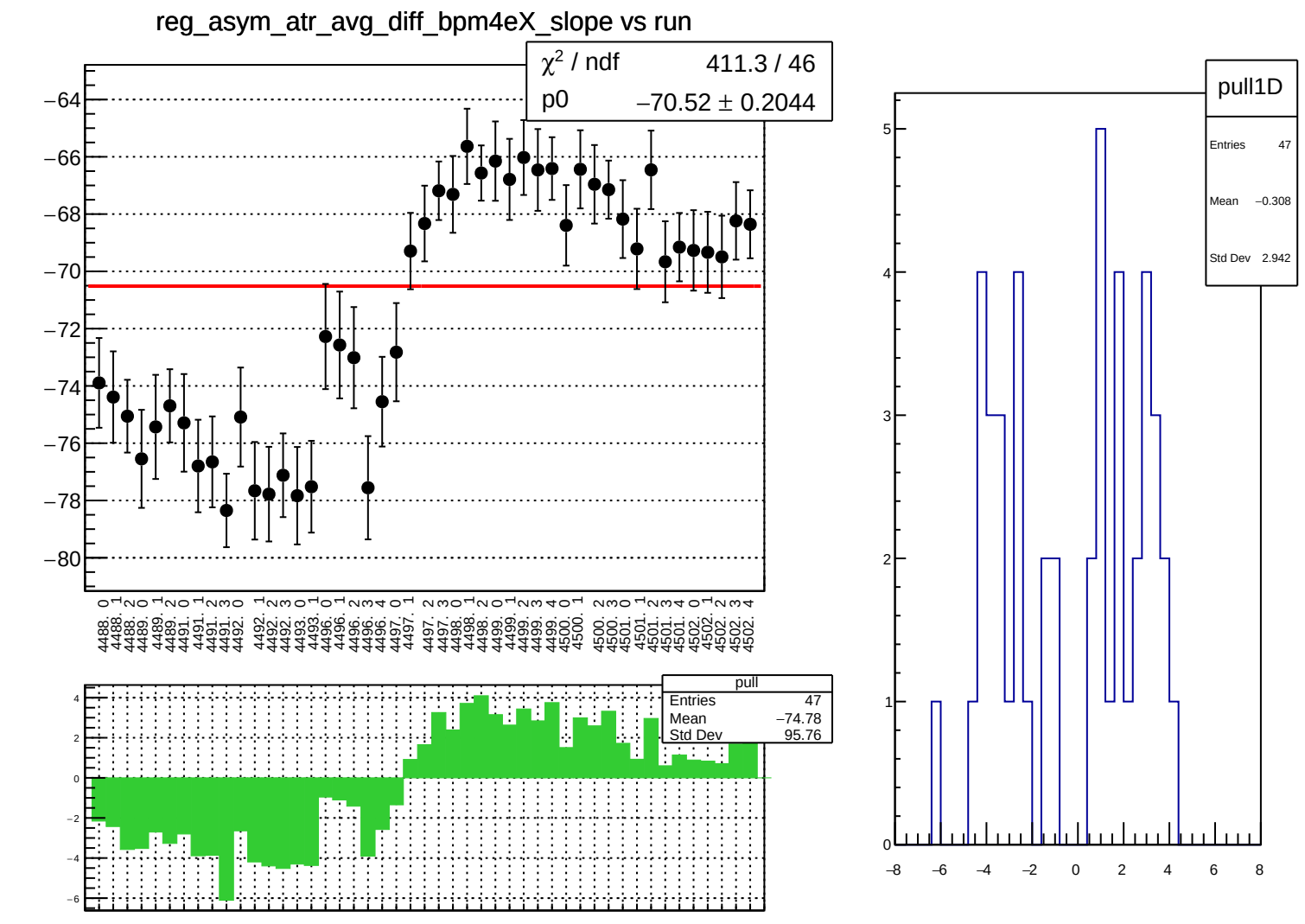

pull1D
Entries 47
Mean 0.04843
Std Dev 1.205

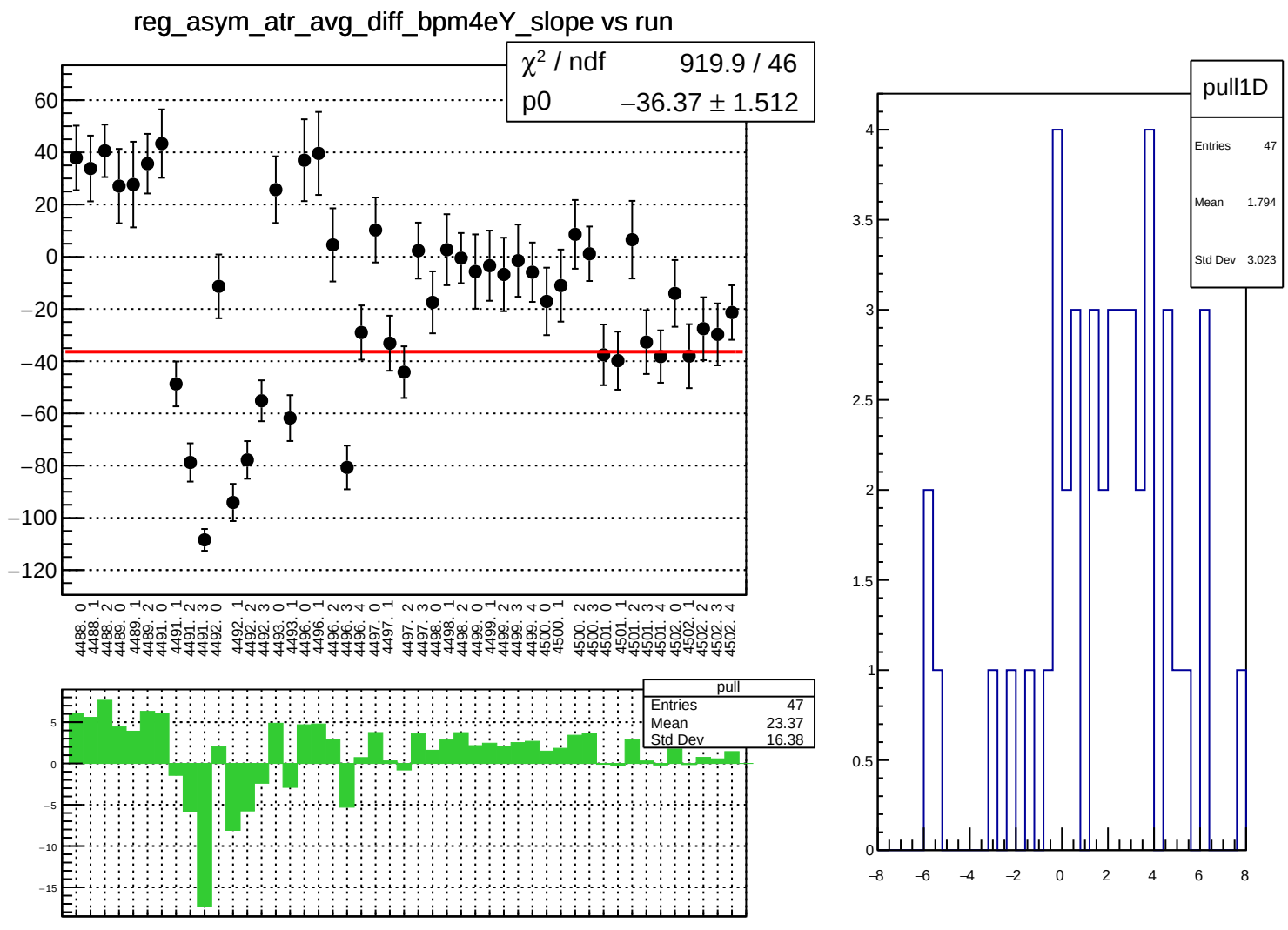

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 174.8 / 46
p0 4.376 ± 1.207
pull
Entries 47
Mean −137.6
Std Dev 158.4

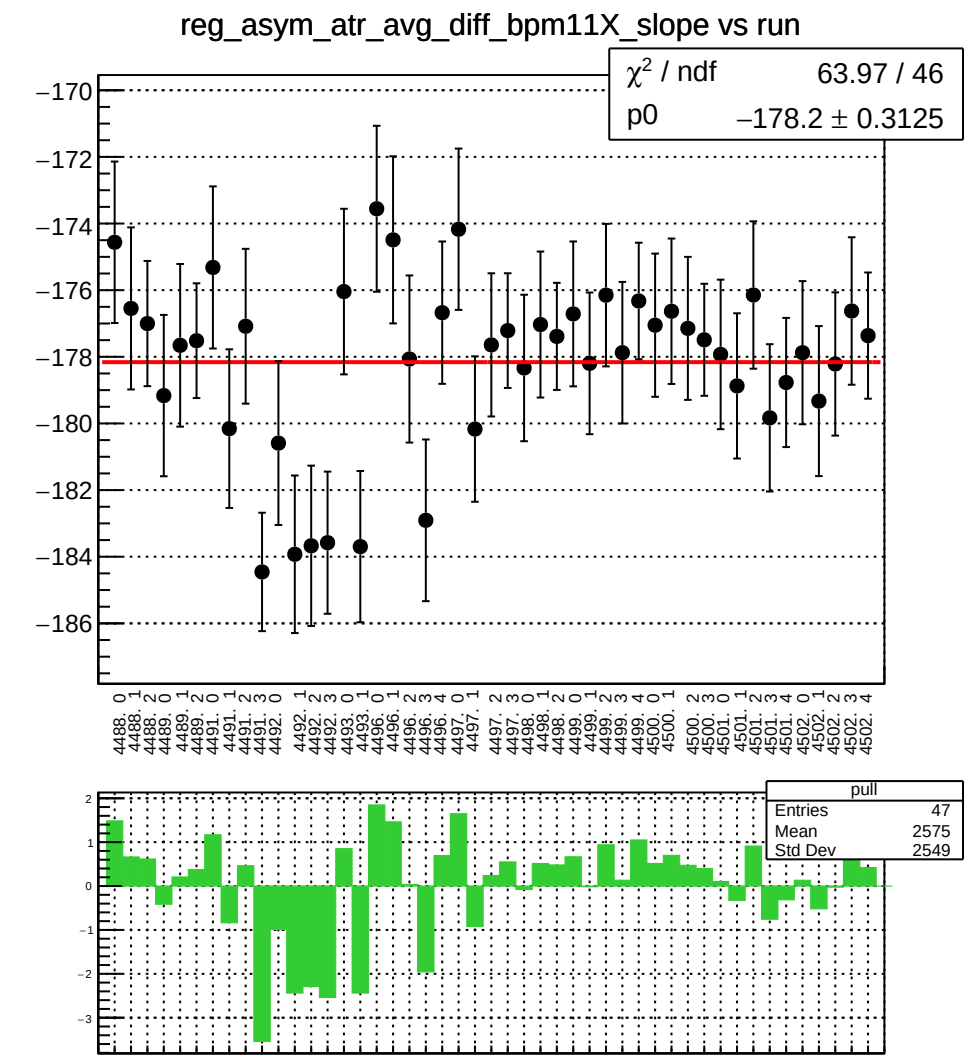

pull1D
Entries 47
Mean 0.135
Std Dev 1.924

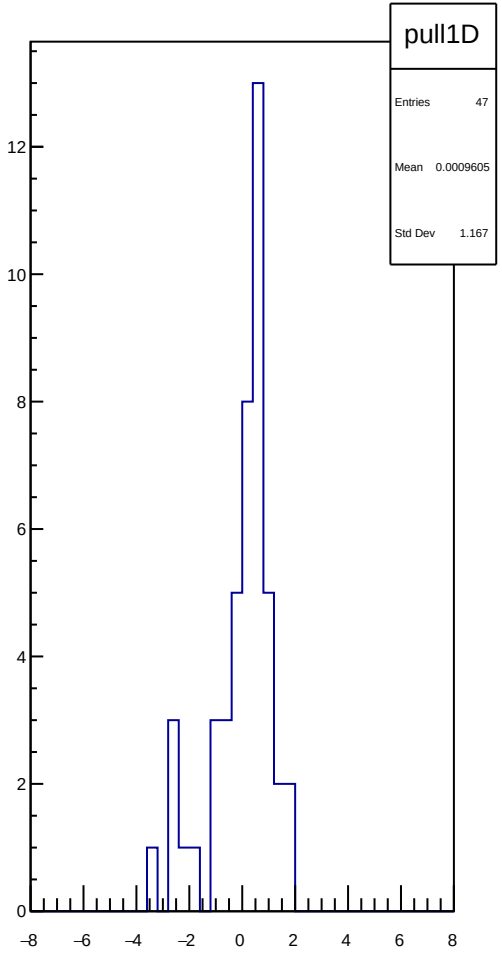

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 644.3 / 46
p0 43.18 ± 1.35
pull
Entries 47
Mean 5.415
Std Dev 1.138

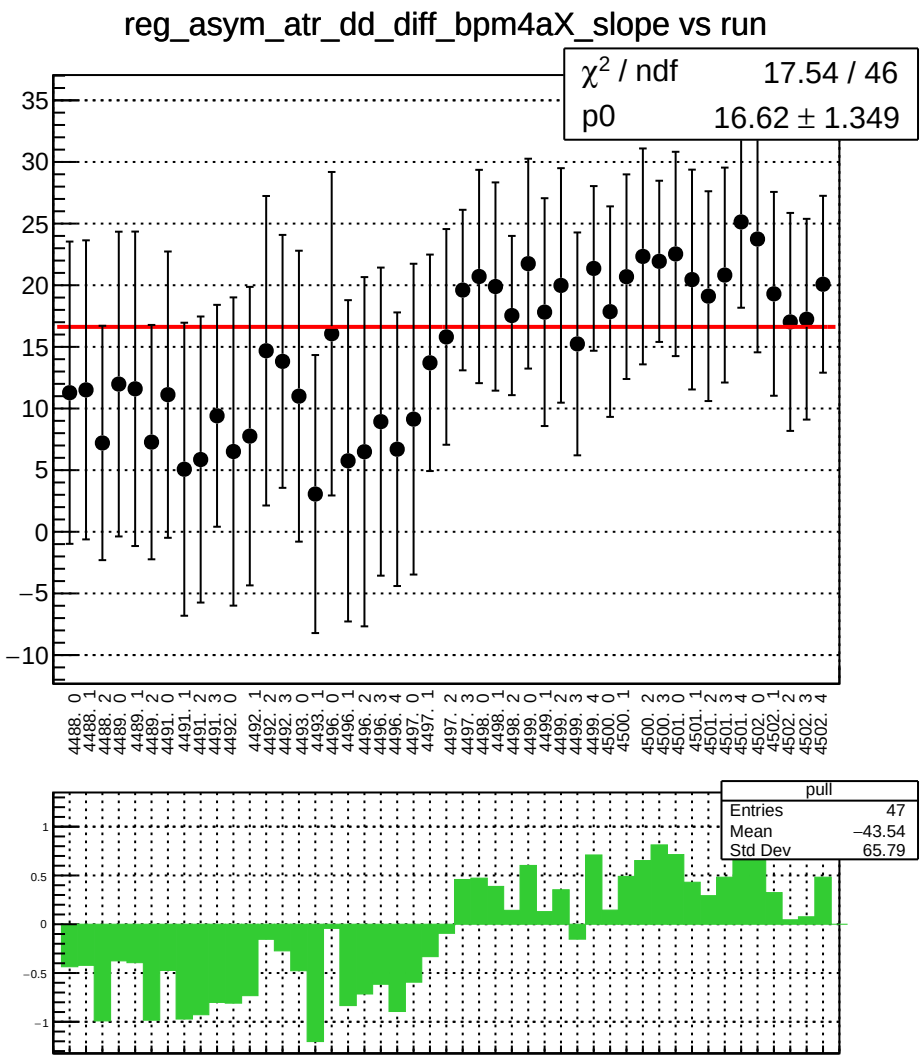

pull1D
Entries 47
Mean −0.9461
Std Dev 3.132

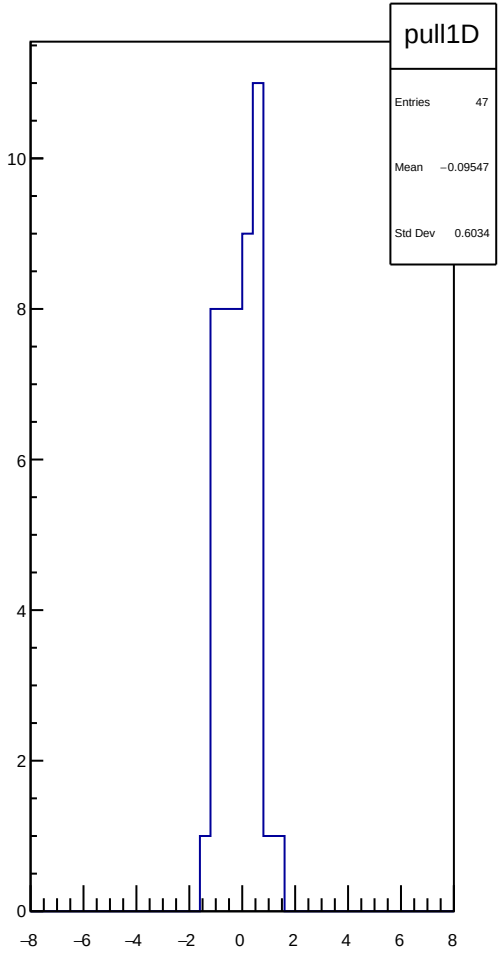

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 411.3 / 46
p0 −70.52 ± 0.2044
pull
Entries 47
Mean −74.78
Std Dev 95.76
pull1D
Entries 47
Mean −0.308
Std Dev 2.942

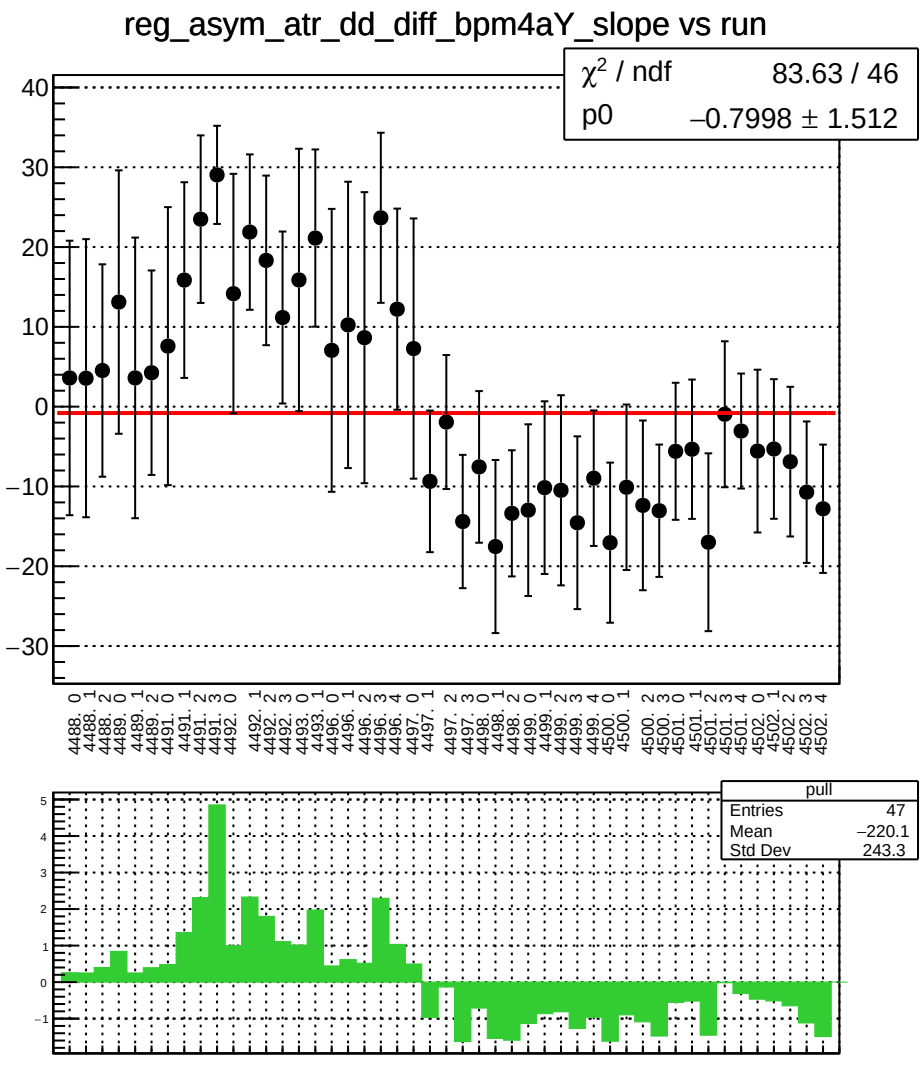

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 919.9 / 46
p0 −36.37 ± 1.512
pull
Entries 47
Mean 23.37
Std Dev 16.38
pull1D
Entries 47
Mean 1.794
Std Dev 3.023

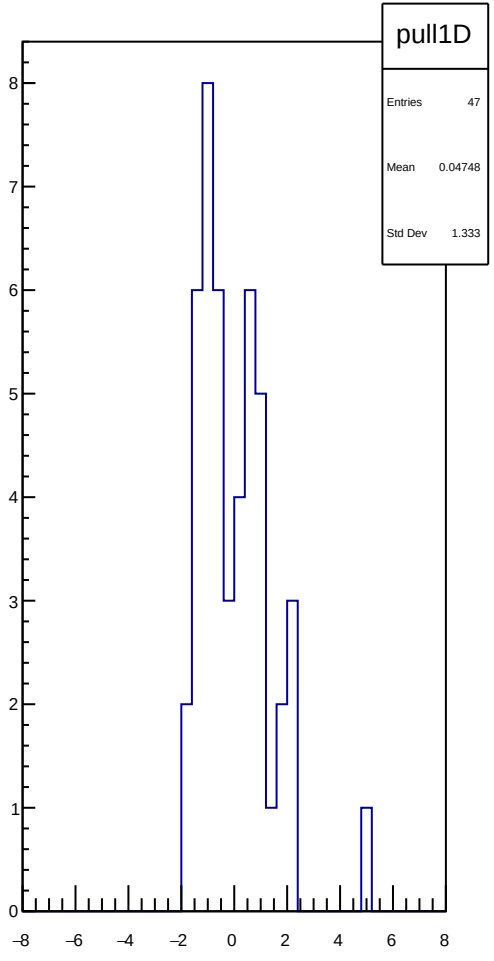

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 63.97 / 46
p0 −178.2 ± 0.3125
pull
Entries 47
Mean 2575
Std Dev 2549

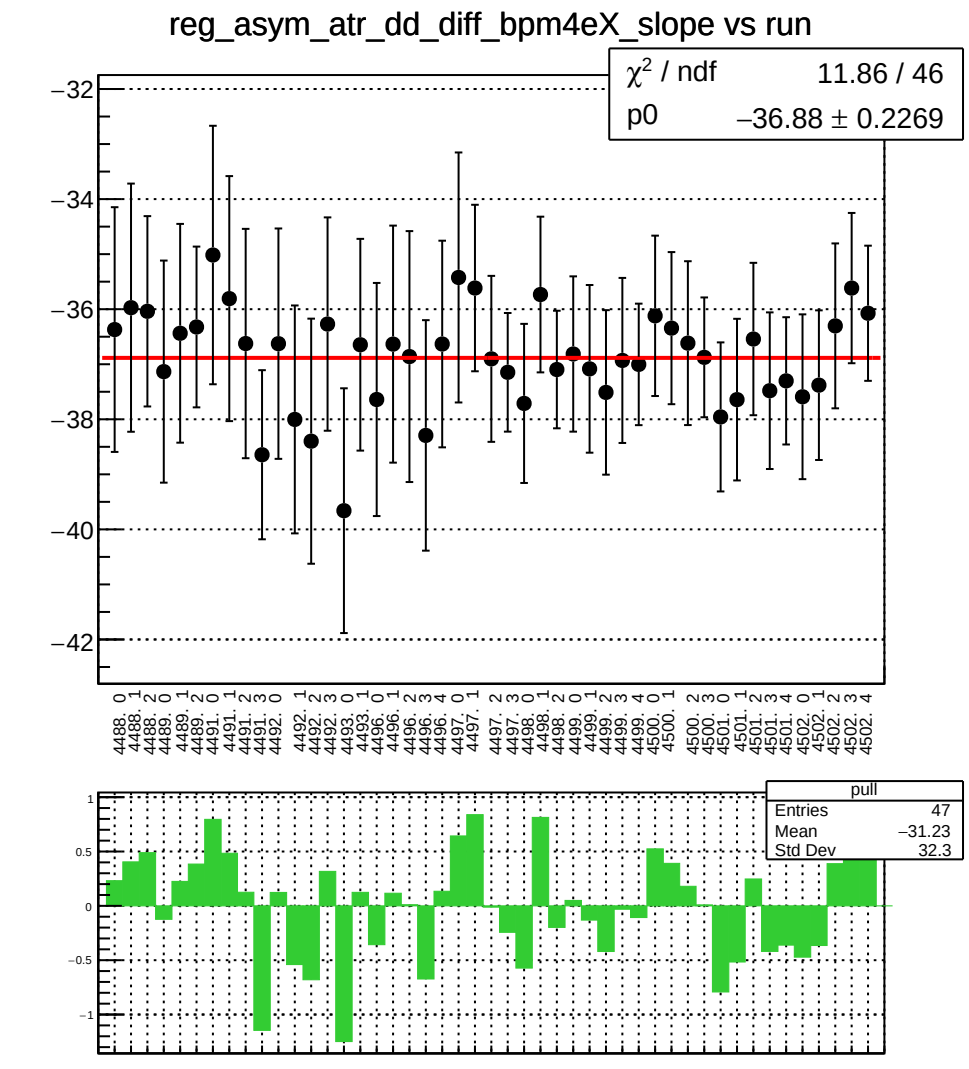

pull1D
Entries 47
Mean 0.0009605
Std Dev 1.167

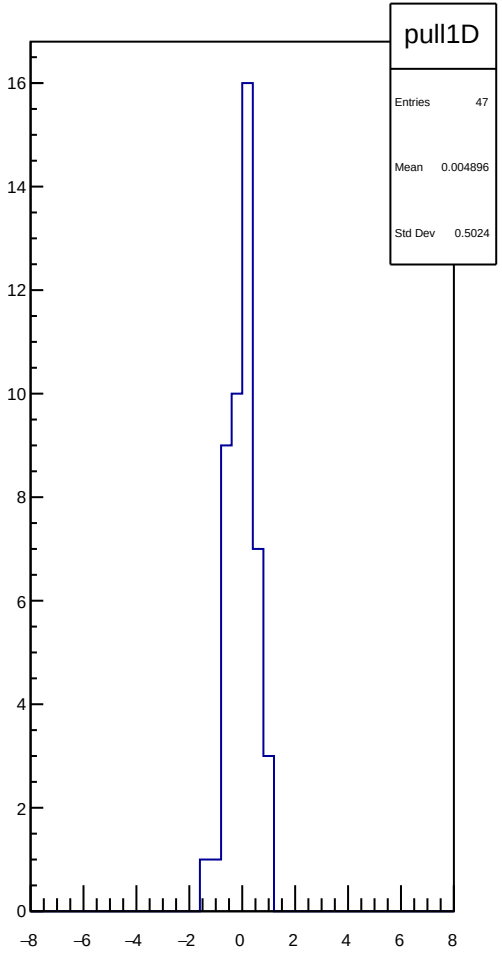

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.54 / 46
p0 16.62 ± 1.349
pull
Entries 47
Mean −43.54
Std Dev 65.79

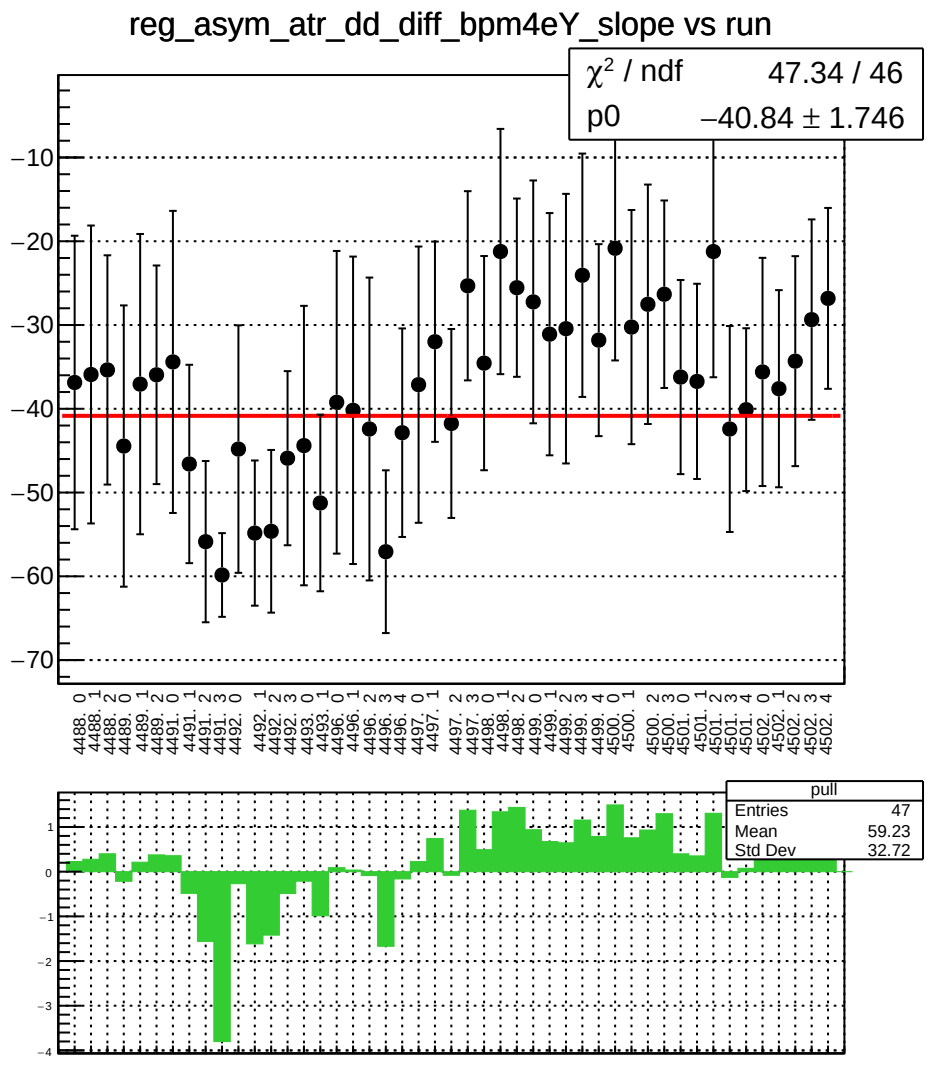

pull1D
Entries 47
Mean −0.09547
Std Dev 0.6034

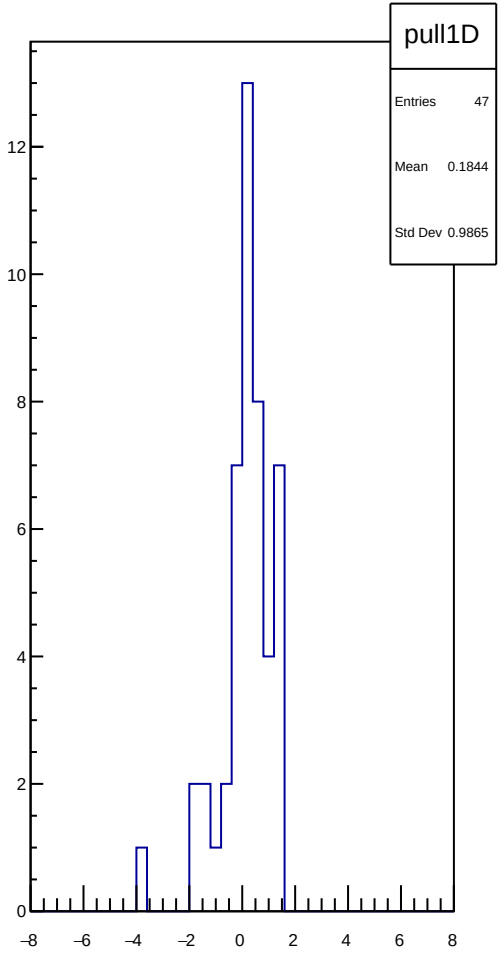

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.63 / 46
p0 −0.7998 ± 1.512
pull
Entries 47
Mean −220.1
Std Dev 243.3

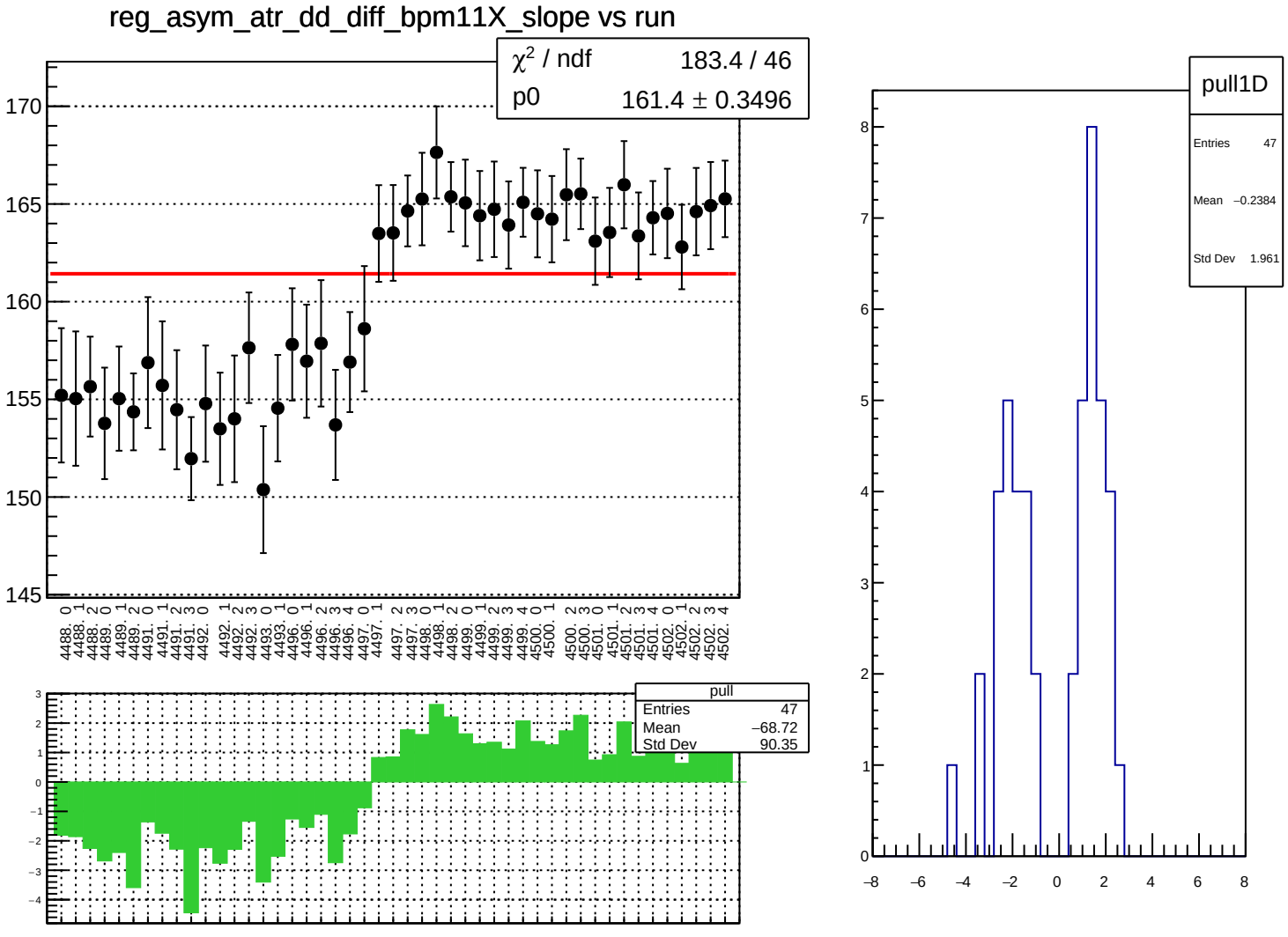

pull1D
Entries 47
Mean 0.04748
Std Dev 1.333

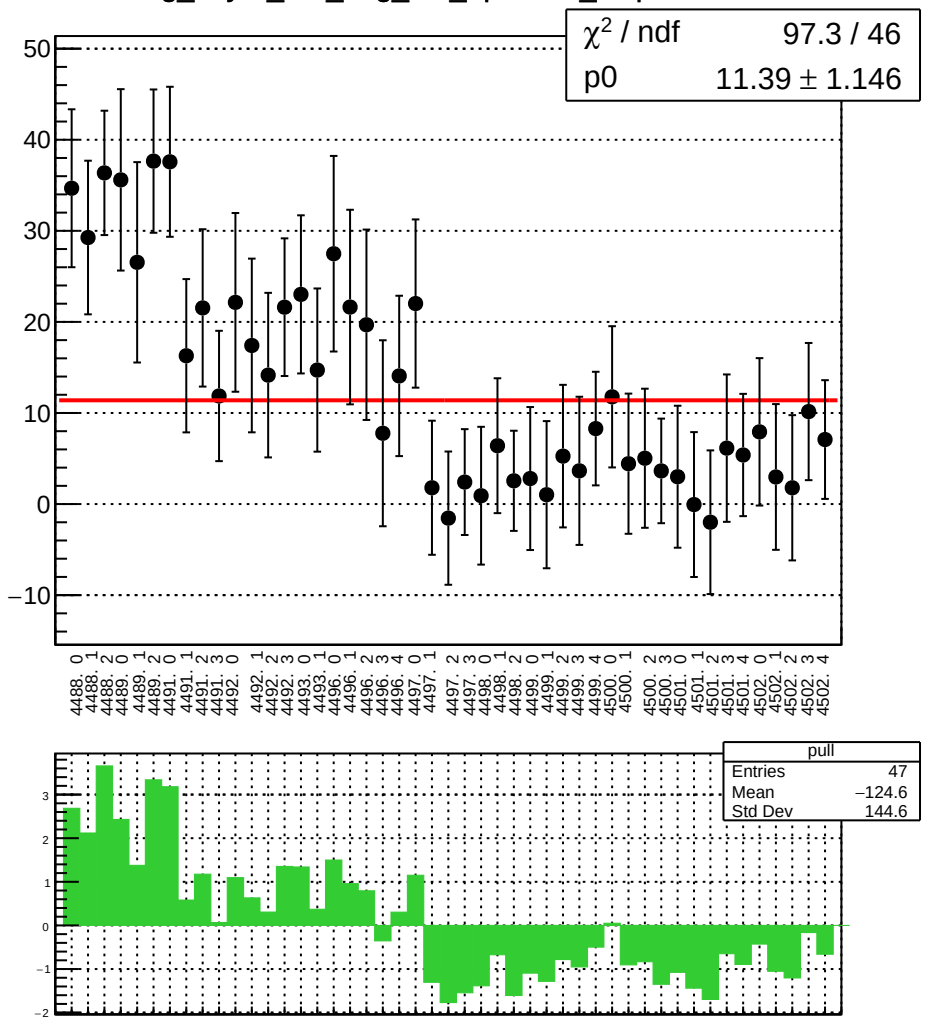

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.86 / 46
p0 −36.88 ± 0.2269
pull
Entries 47
Mean −31.23
Std Dev 32.3

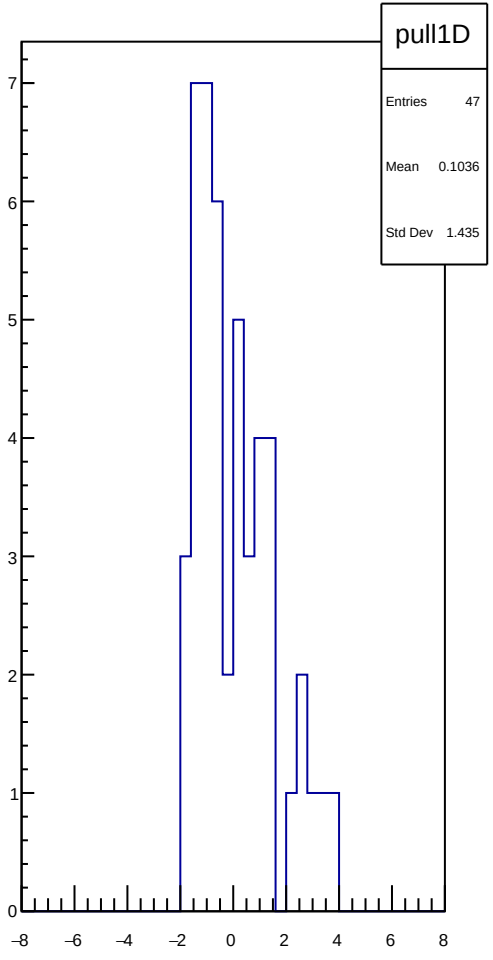

pull1D
Entries 47
Mean 0.004896
Std Dev 0.5024

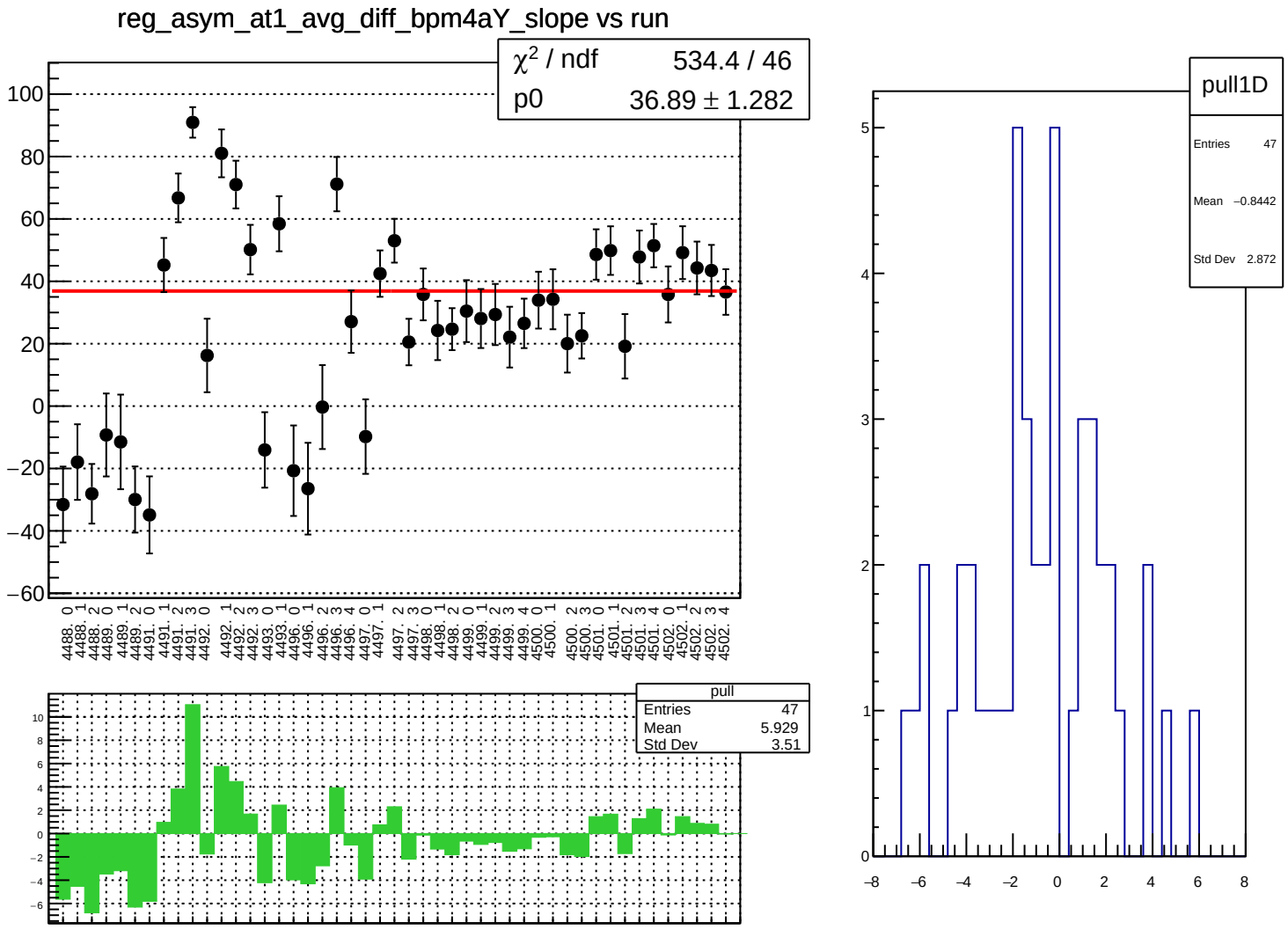

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.34 / 46
p0 −40.84 ± 1.746
pull
Entries 47
Mean 59.23
Std Dev 32.72

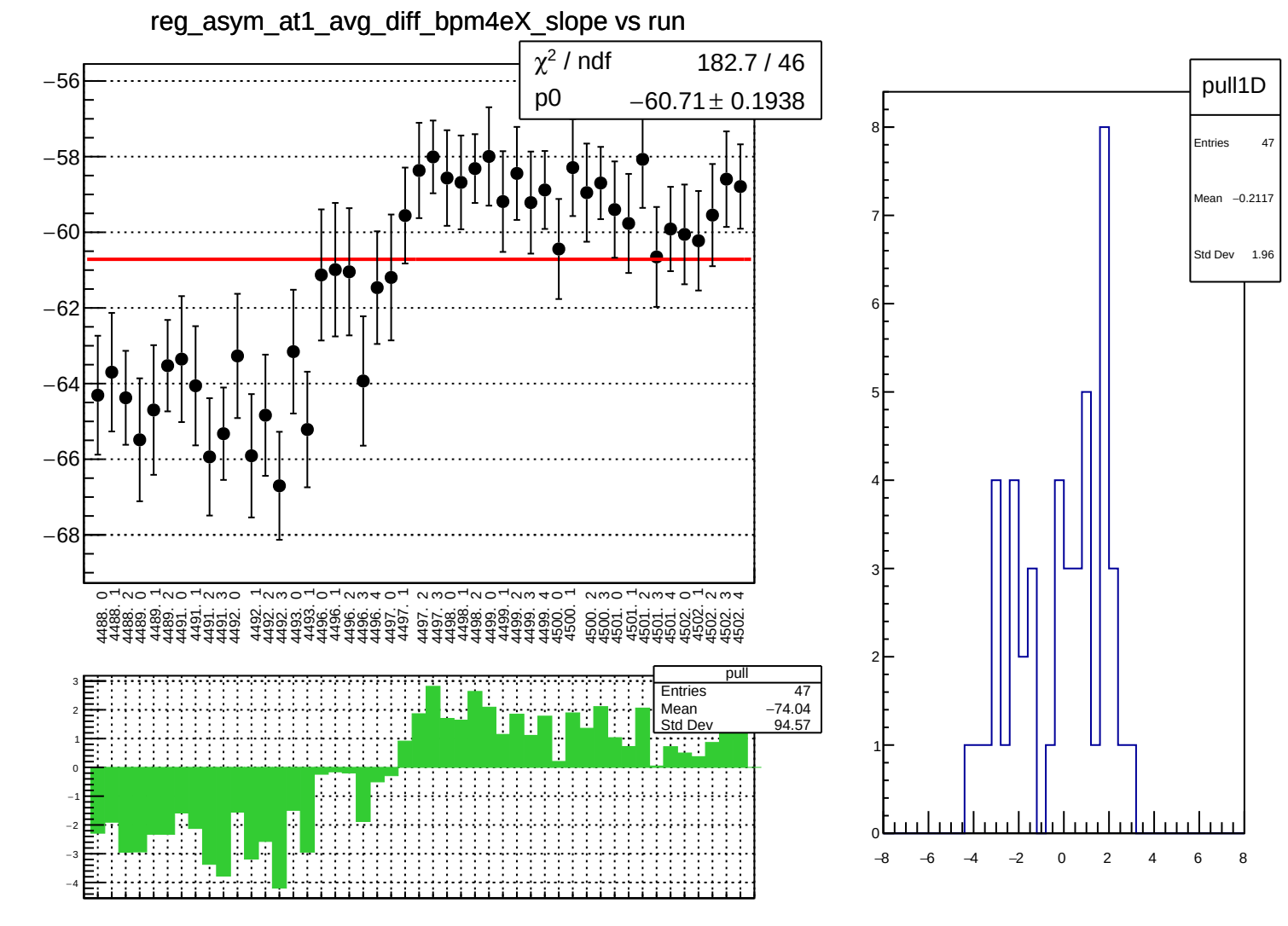

pull1D
Entries 47
Mean 0.1844
Std Dev 0.9865

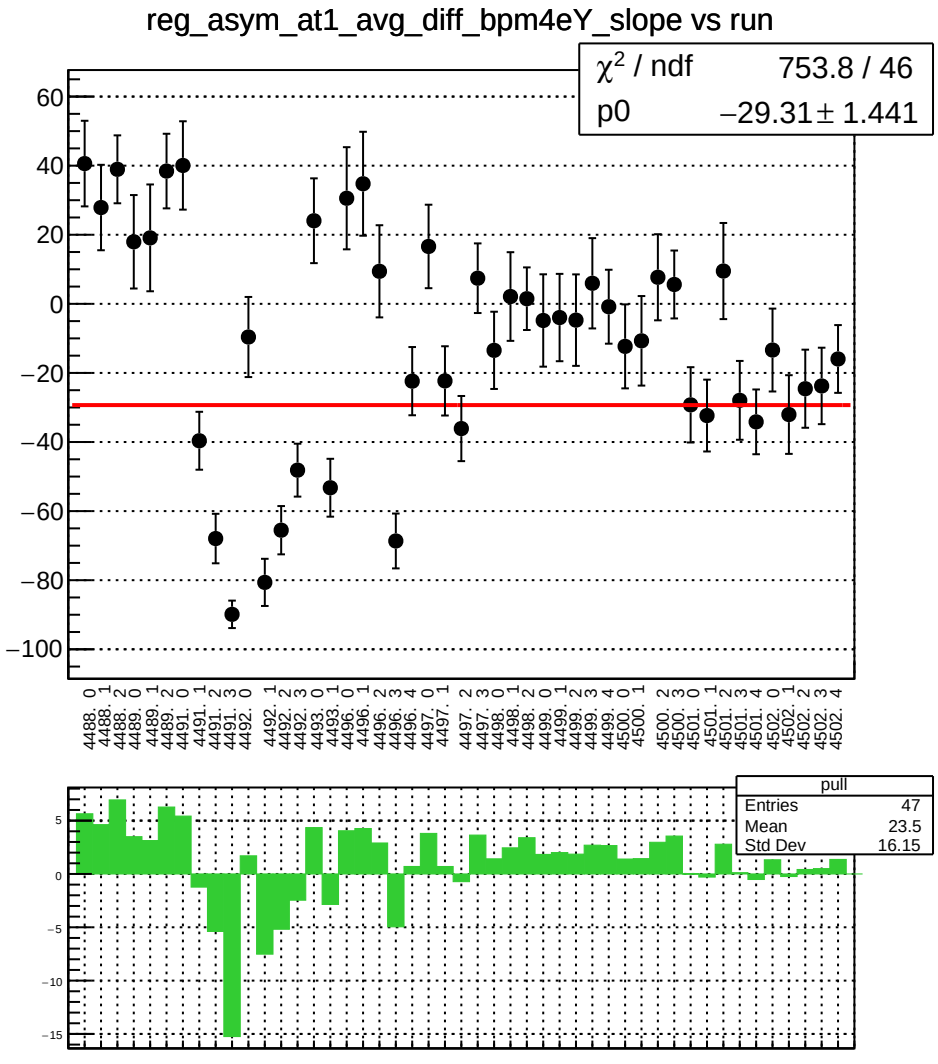

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 183.4 / 46
p0 161.4 ± 0.3496
pull
Entries 47
Mean −68.72
Std Dev 90.35
pull1D
Entries 47
Mean −0.2384
Std Dev 1.961

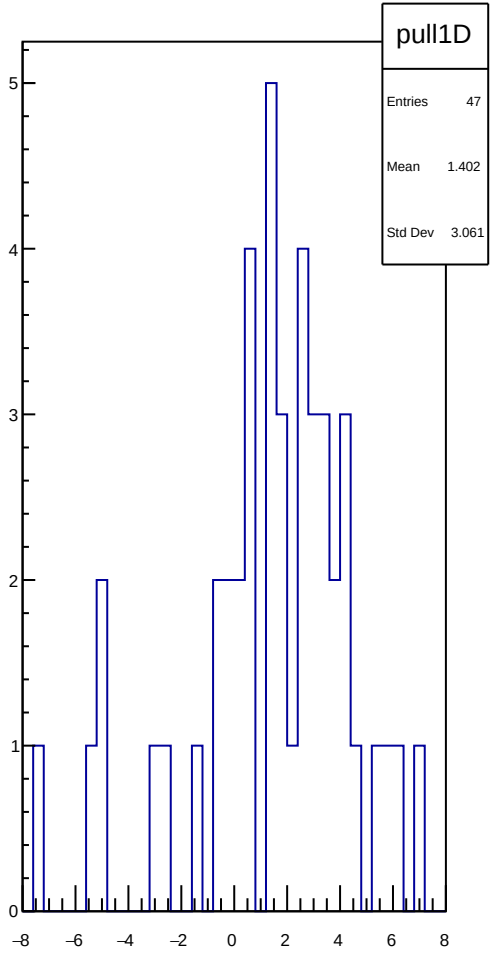

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 97.3 / 46
p0 11.39 ± 1.146
pull
Entries 47
Mean −124.6
Std Dev 144.6

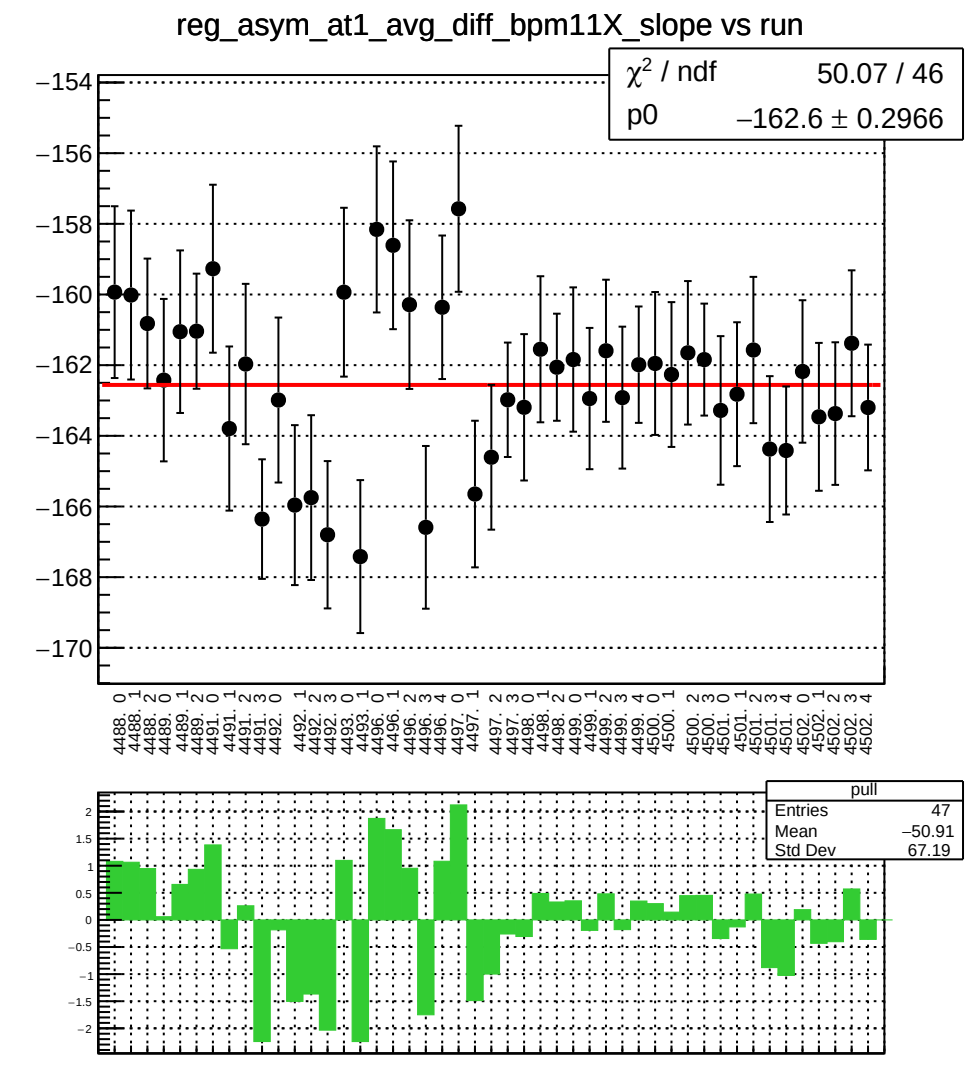

pull1D
Entries 47
Mean 0.1036
Std Dev 1.435

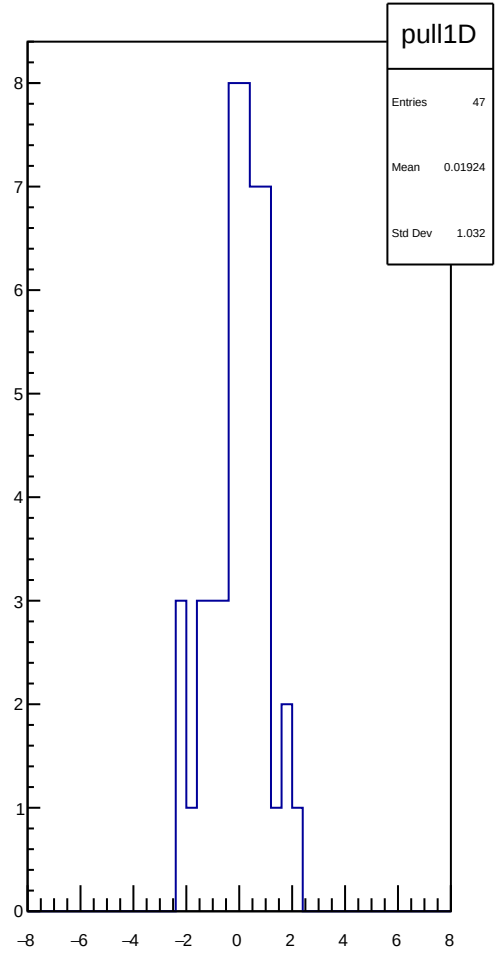

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 534.4 / 46
p0 36.89 ± 1.282
pull
Entries 47
Mean 5.929
Std Dev 3.51
pull1D
Entries 47
Mean −0.8442
Std Dev 2.872

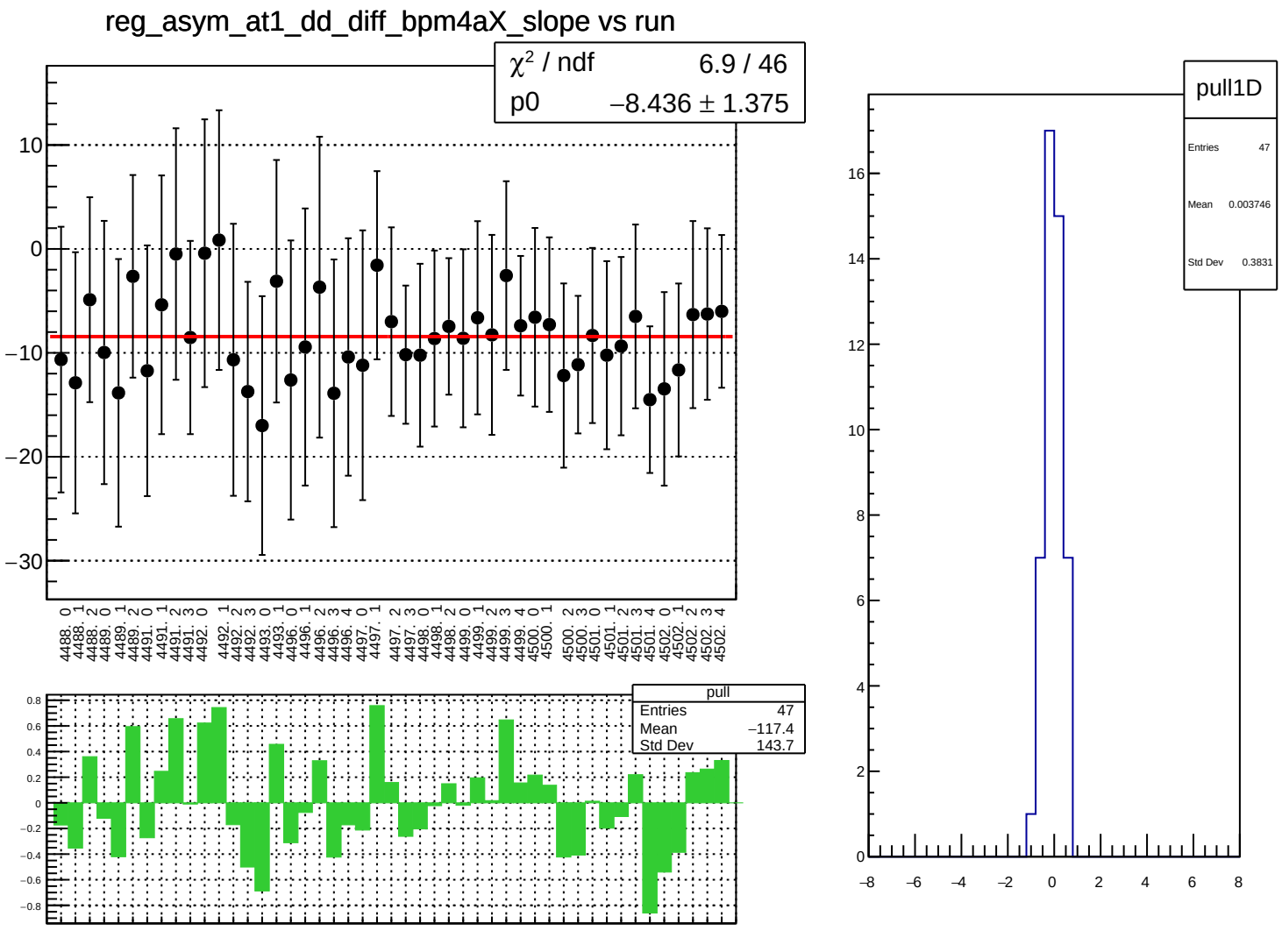

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 182.7 / 46
p0 −60.71 ± 0.1938
pull
Entries 47
Mean −74.04
Std Dev 94.57
pull1D
Entries 47
Mean −0.2117
Std Dev 1.96

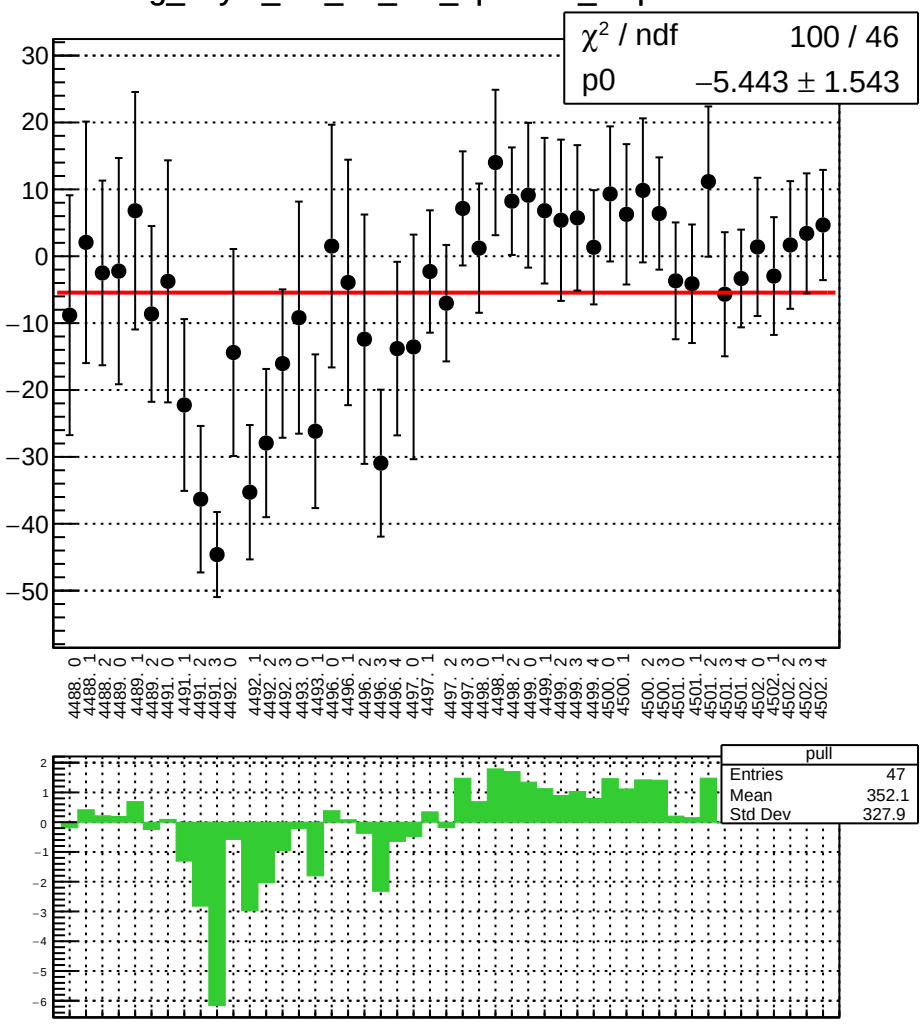

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 753.8 / 46
p0 −29.31 ± 1.441
pull
Entries 47
Mean 23.5
Std Dev 16.15

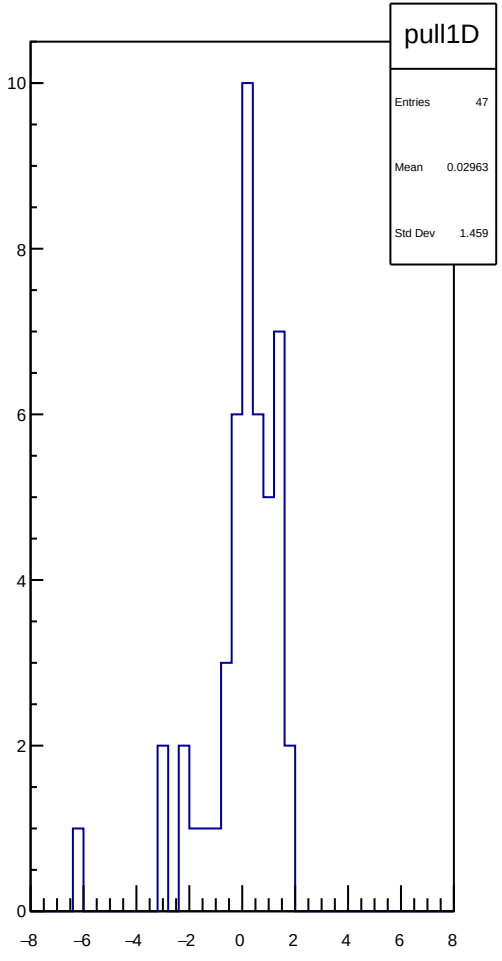

pull1D
Entries 47
Mean 1.402
Std Dev 3.061

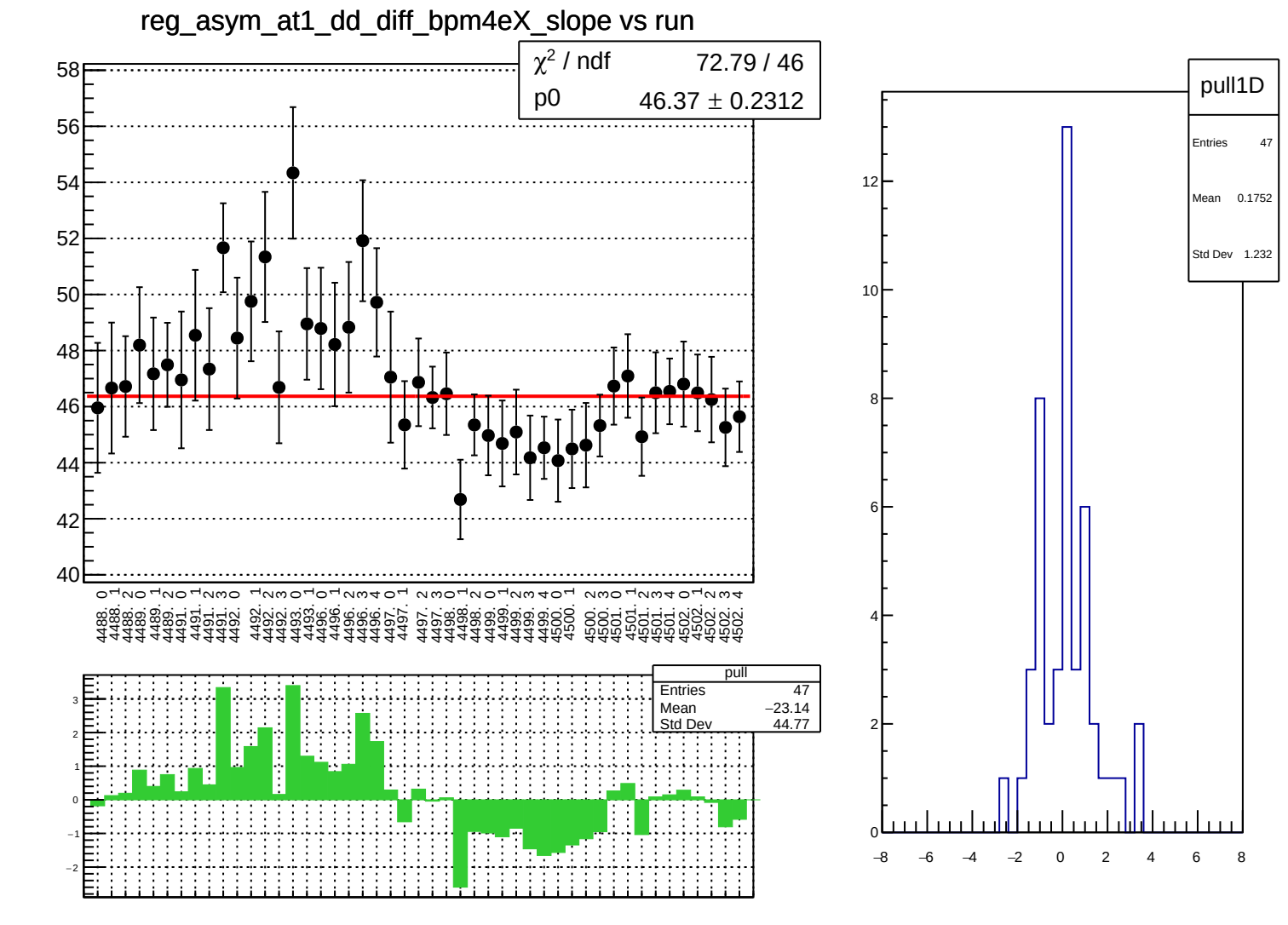

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 50.07 / 46
p0 −162.6 ± 0.2966
pull
Entries 47
Mean −50.91
Std Dev 67.19

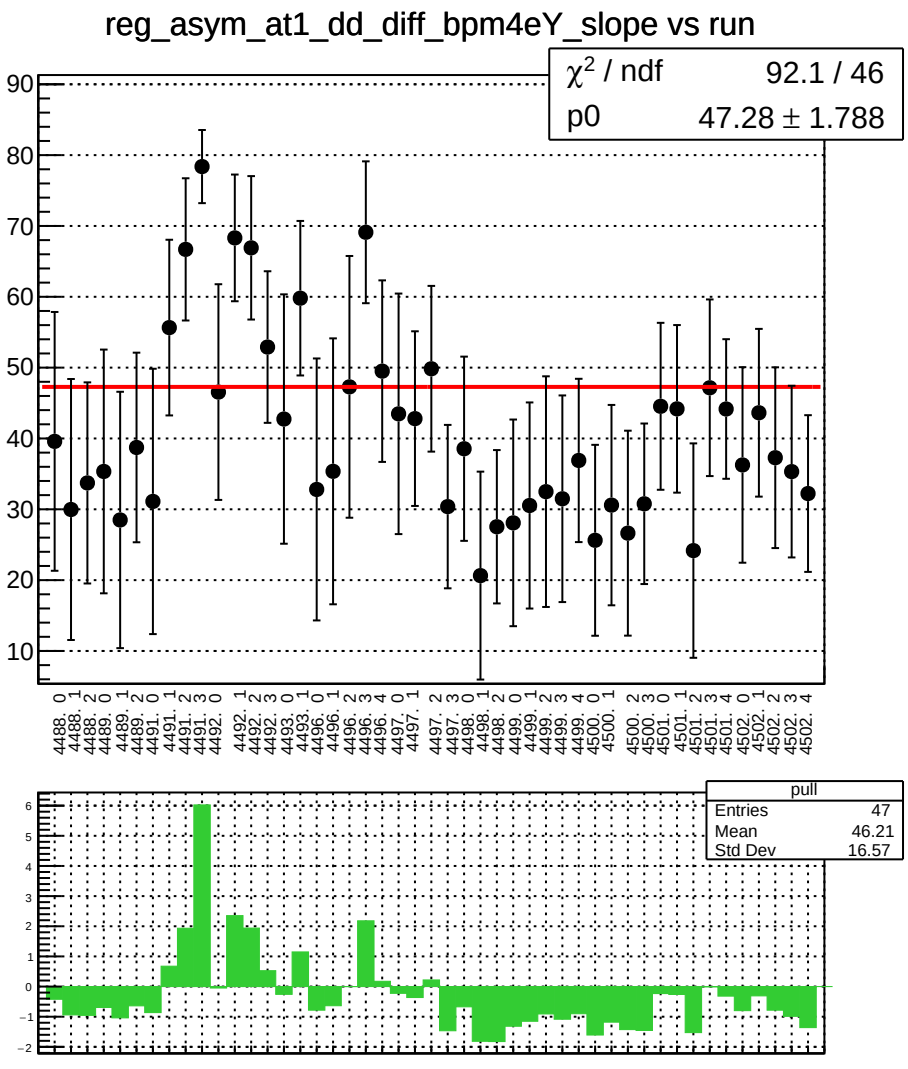

pull1D
Entries 47
Mean 0.01924
Std Dev 1.032

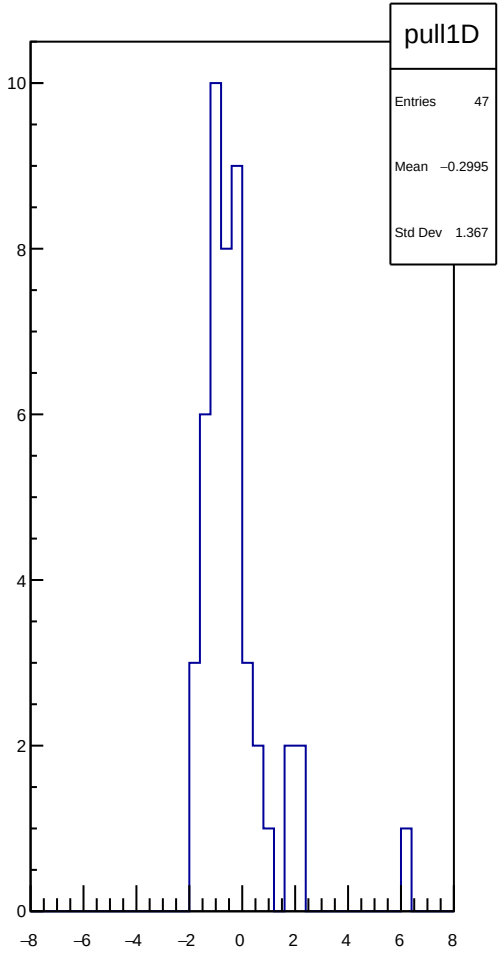

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.9 / 46
p0 −8.436 ± 1.375
10
0
−10
−20
−30
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −117.4
Std Dev 143.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 47
Mean 0.003746
Std Dev 0.3831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

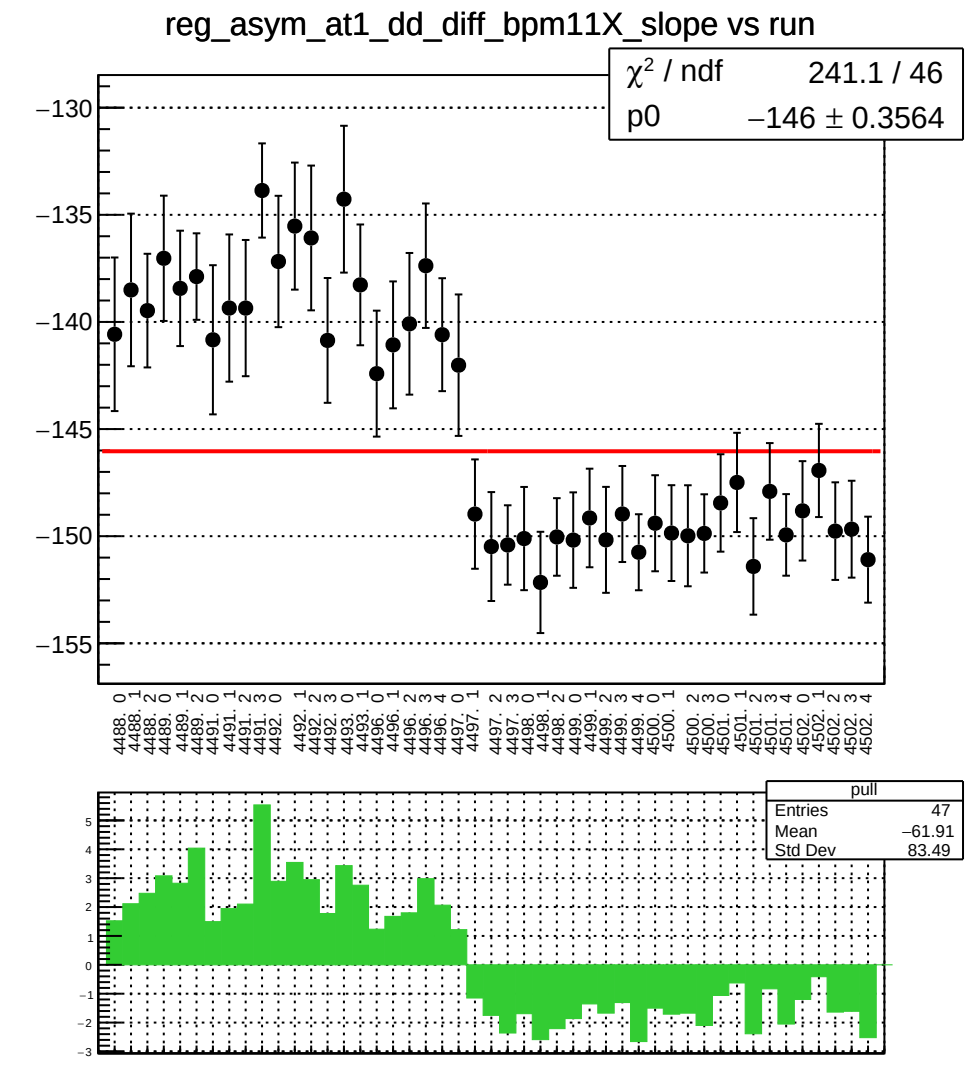

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 100 / 46
p0 −5.443 ± 1.543
pull
Entries 47
Mean 352.1
Std Dev 327.9

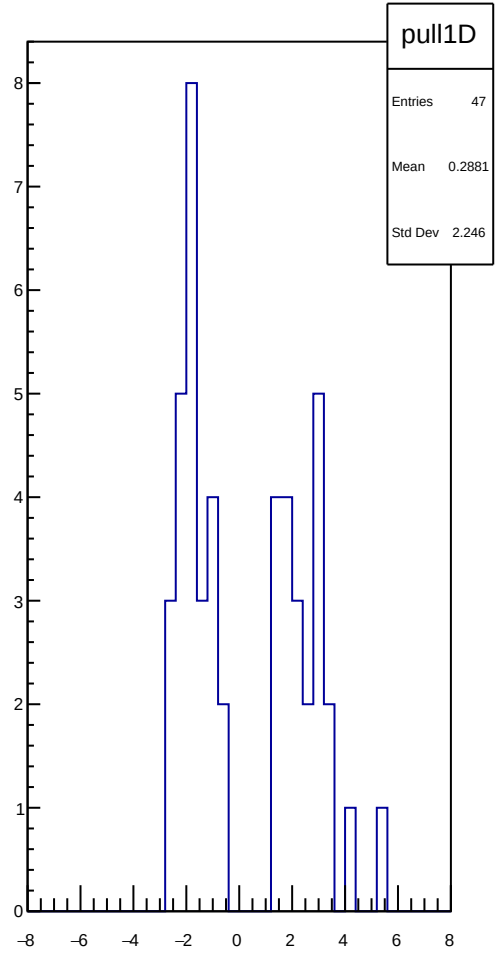

pull1D
Entries 47
Mean 0.02963
Std Dev 1.459

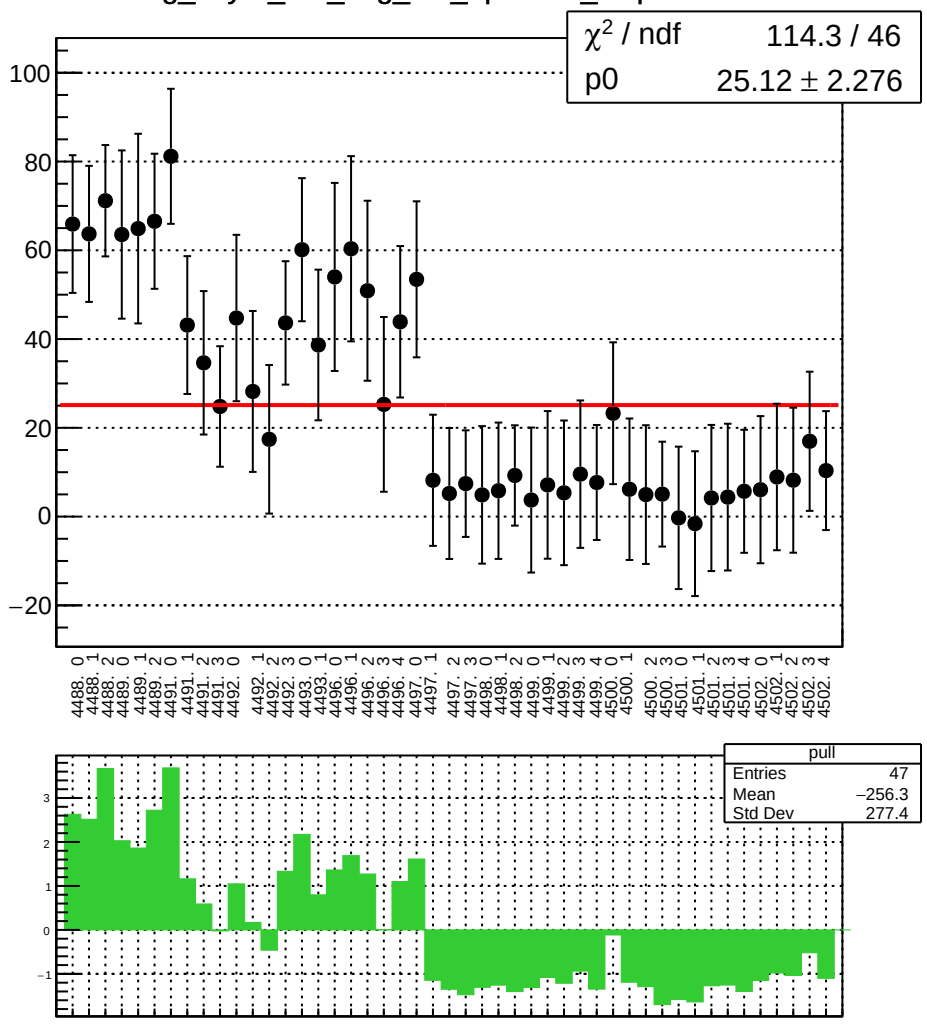

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.79 / 46
p0 46.37 ± 0.2312
pull
Entries 47
Mean −23.14
Std Dev 44.77
pull1D
Entries 47
Mean 0.1752
Std Dev 1.232

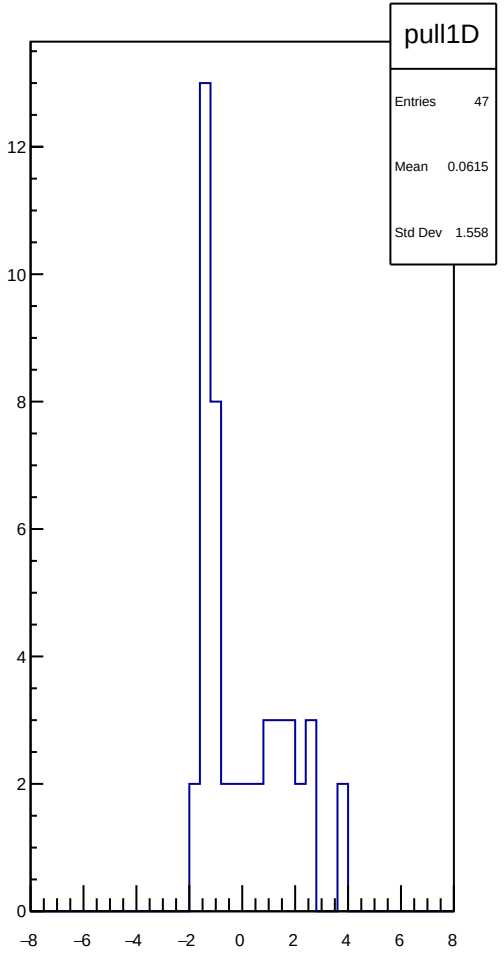

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.1 / 46
p0 47.28 ± 1.788
pull
Entries 47
Mean 46.21
Std Dev 16.57

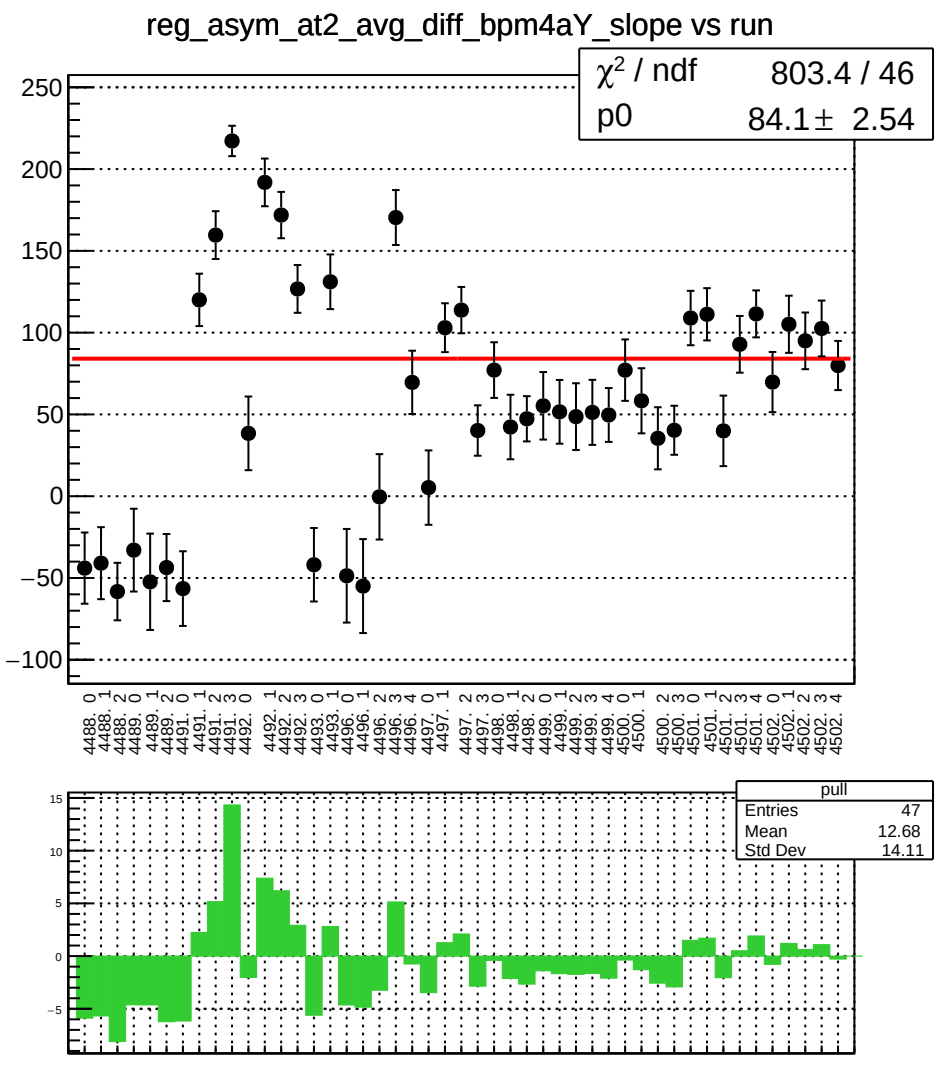

pull1D
Entries 47
Mean −0.2995
Std Dev 1.367

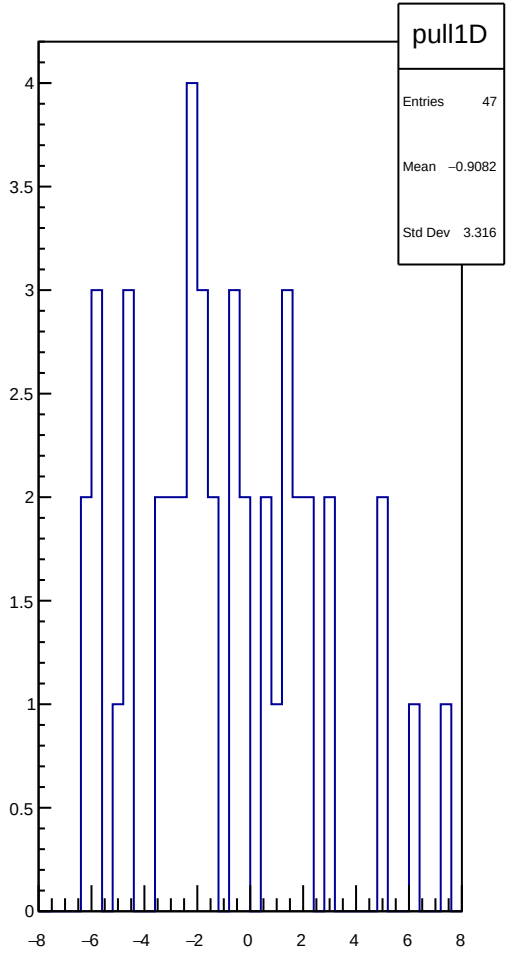

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 241.1 / 46
p0 −146 ± 0.3564
pull
Entries 47
Mean −61.91
Std Dev 83.49

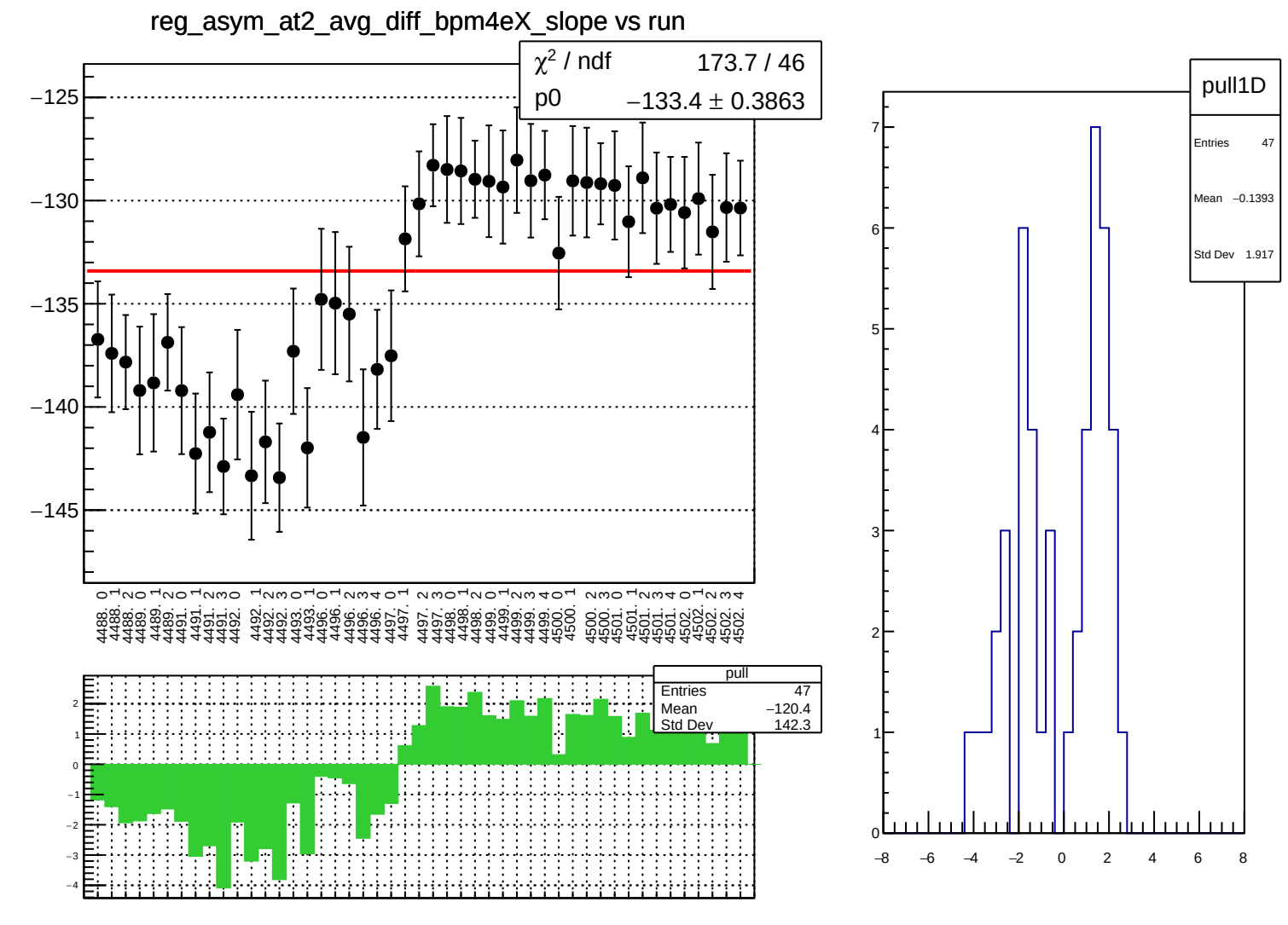

pull1D
Entries 47
Mean 0.2881
Std Dev 2.246

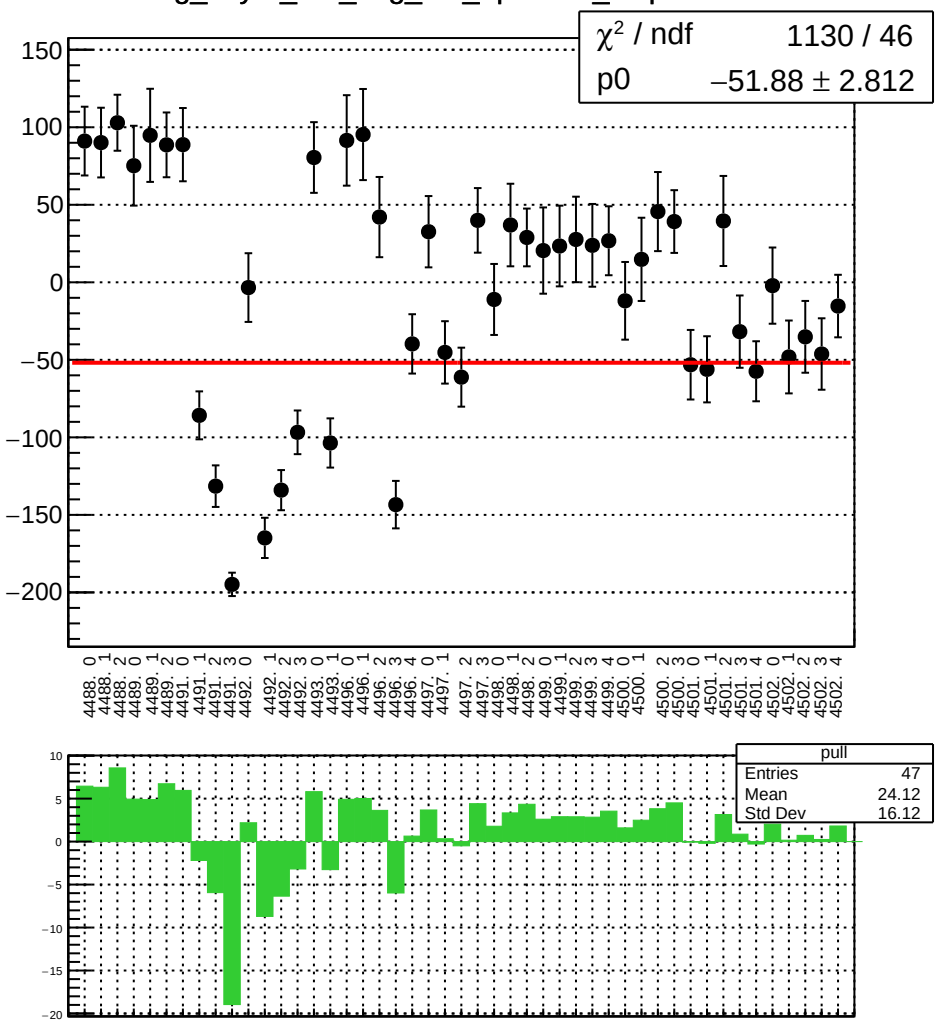

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 114.3 / 46
p0 25.12 ± 2.276
pull
Entries 47
Mean −256.3
Std Dev 277.4

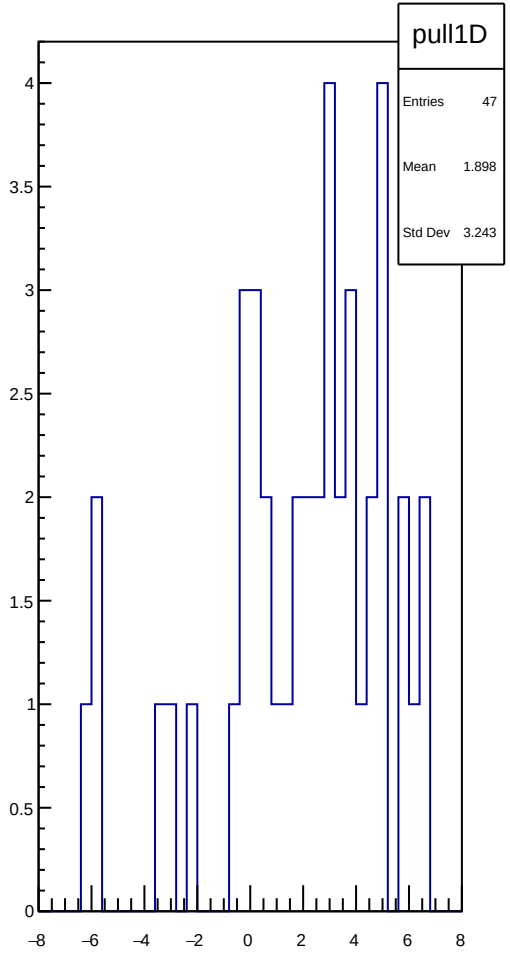

pull1D
Entries 47
Mean 0.0615
Std Dev 1.558

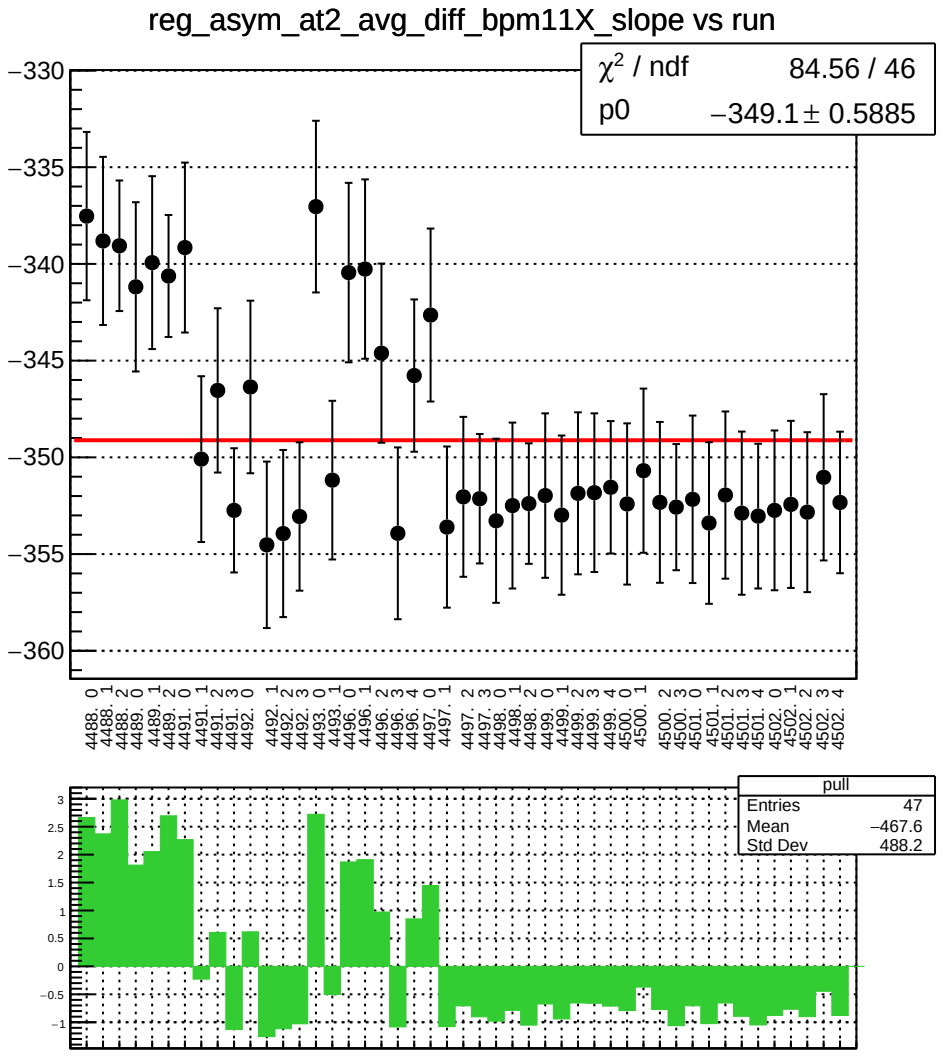

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 803.4 / 46
p0 84.1 ± 2.54
pull
Entries 47
Mean 12.68
Std Dev 14.11

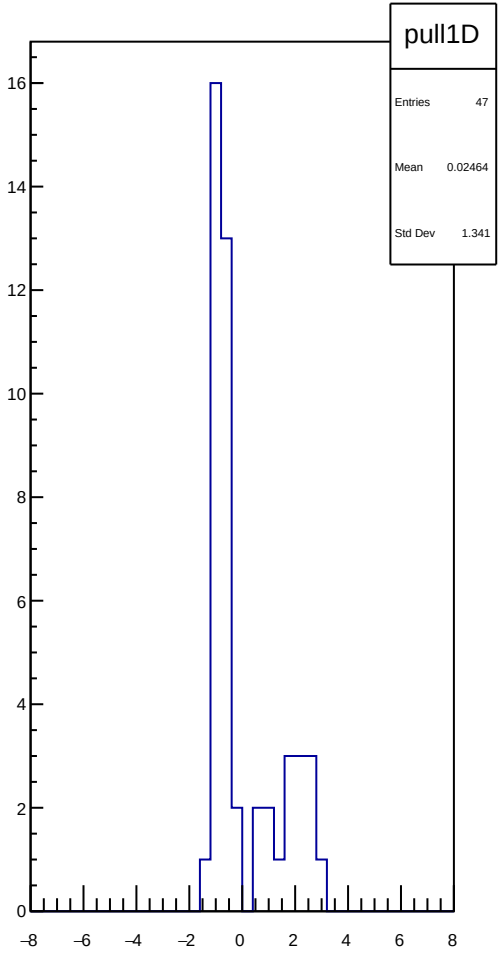

pull1D
Entries 47
Mean −0.9082
Std Dev 3.316

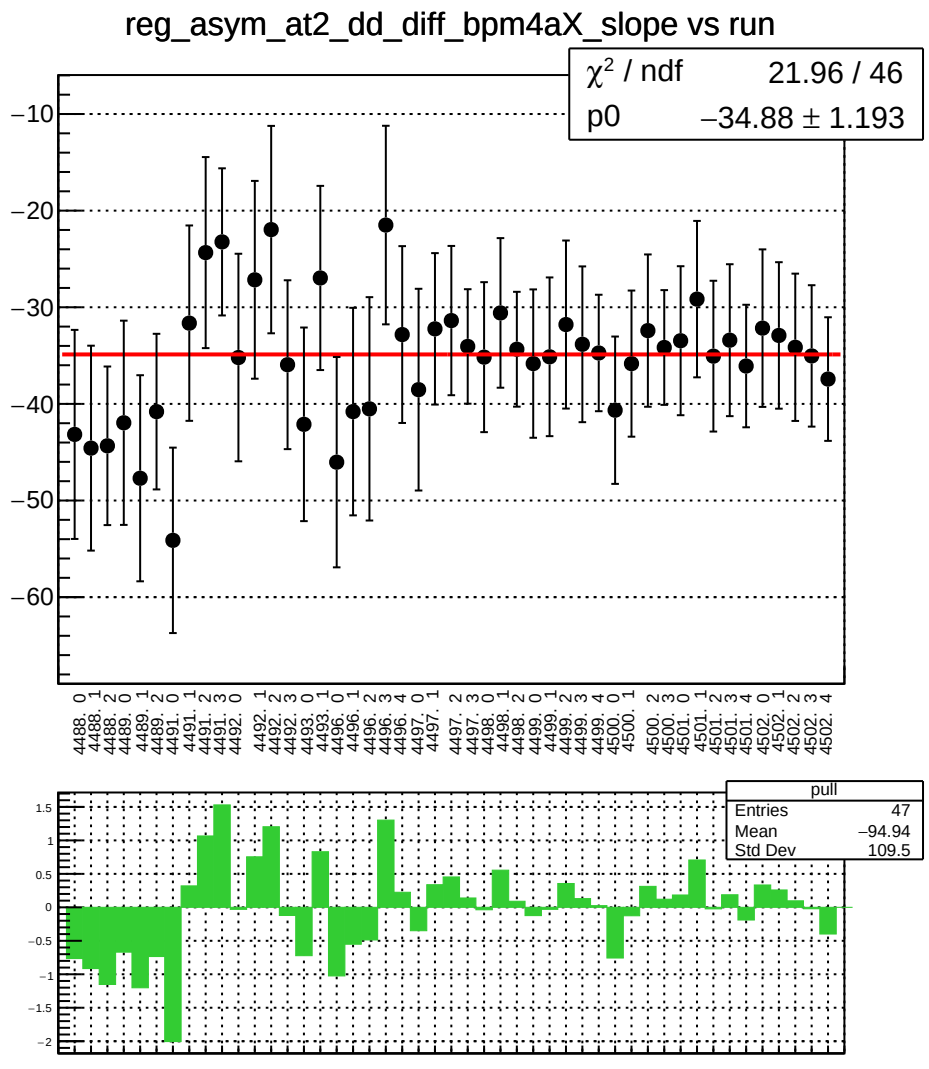

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 173.7 / 46
p0 −133.4 ± 0.3863
−125
−130
−135
−140
−145
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −120.4
Std Dev 142.3
2
1
0
−1
−2
−3
−4
pull1D
Entries 47
Mean −0.1393
Std Dev 1.917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

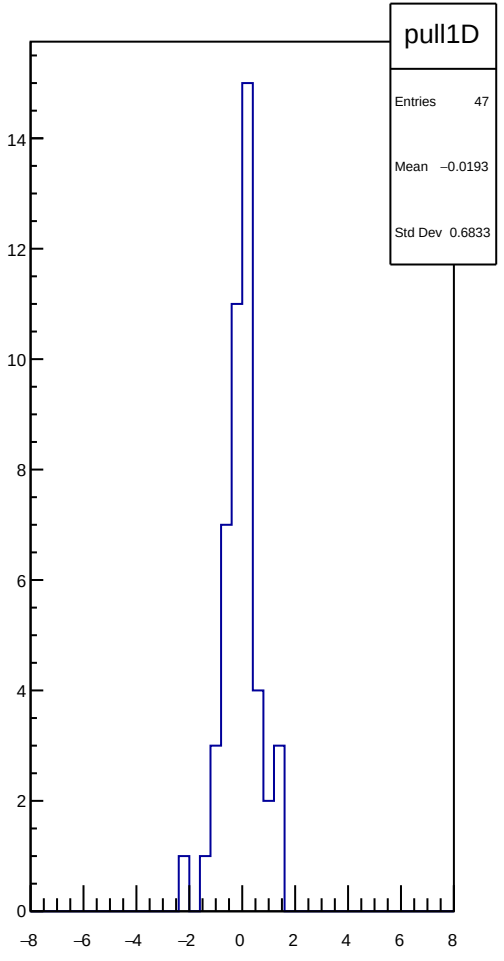

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1130 / 46
p0 −51.88 ± 2.812
pull
Entries 47
Mean 24.12
Std Dev 16.12

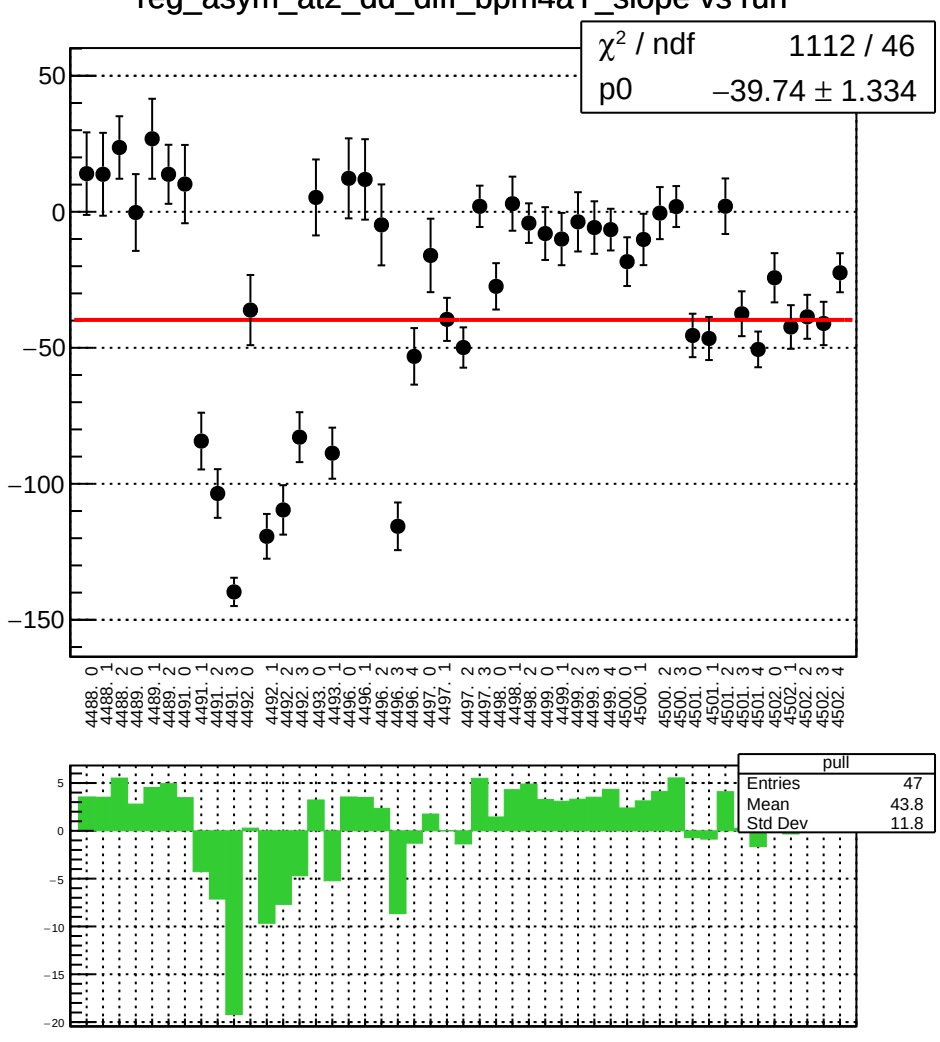

pull1D
Entries 47
Mean 1.898
Std Dev 3.243

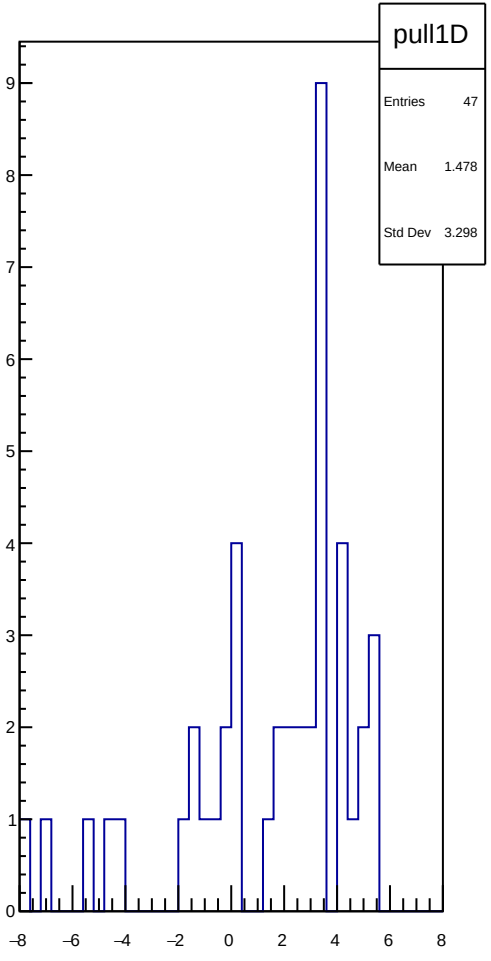

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 84.56 / 46
p0 −349.1 ± 0.5885
pull
Entries 47
Mean −467.6
Std Dev 488.2

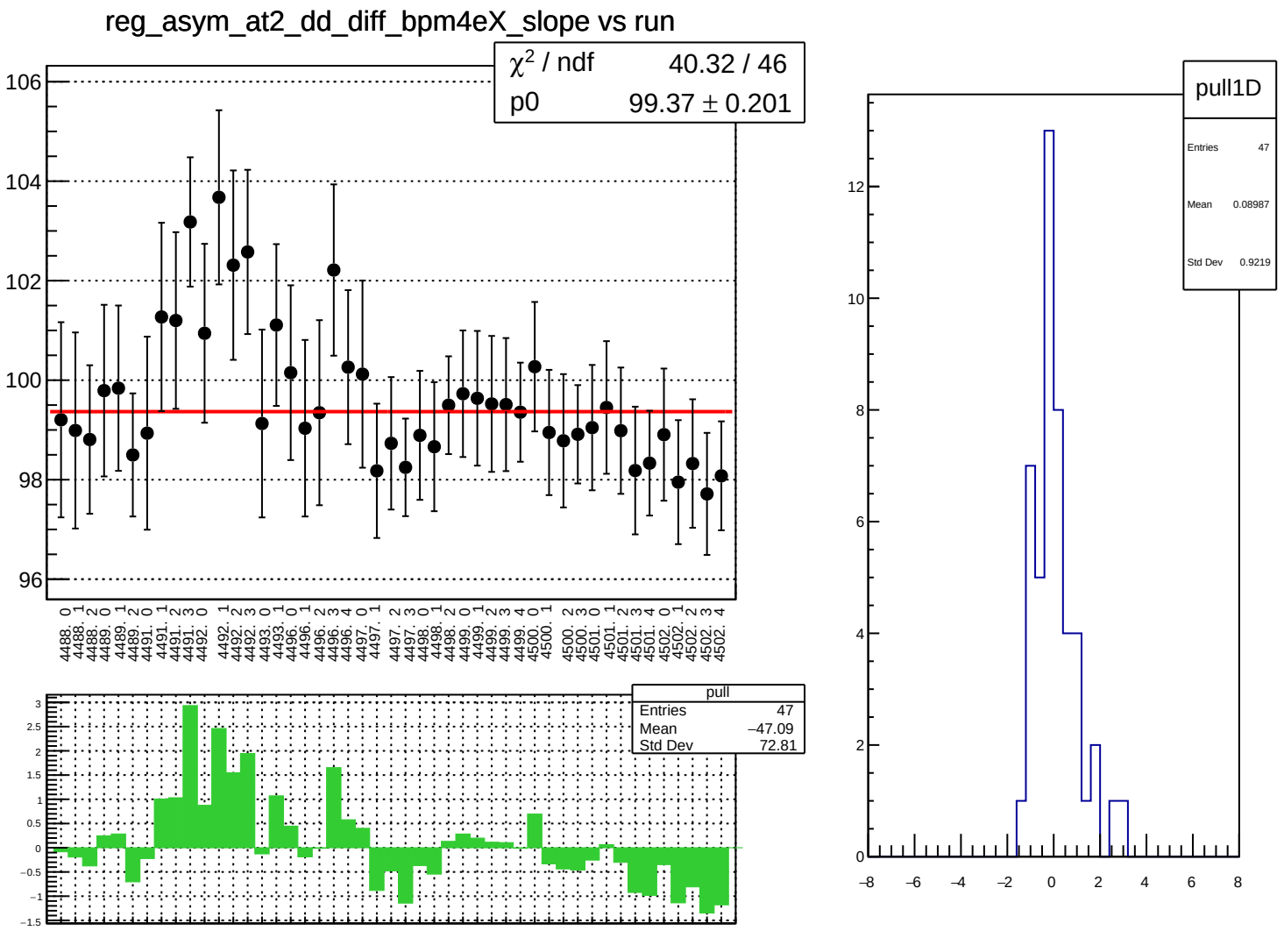

pull1D
Entries 47
Mean 0.02464
Std Dev 1.341

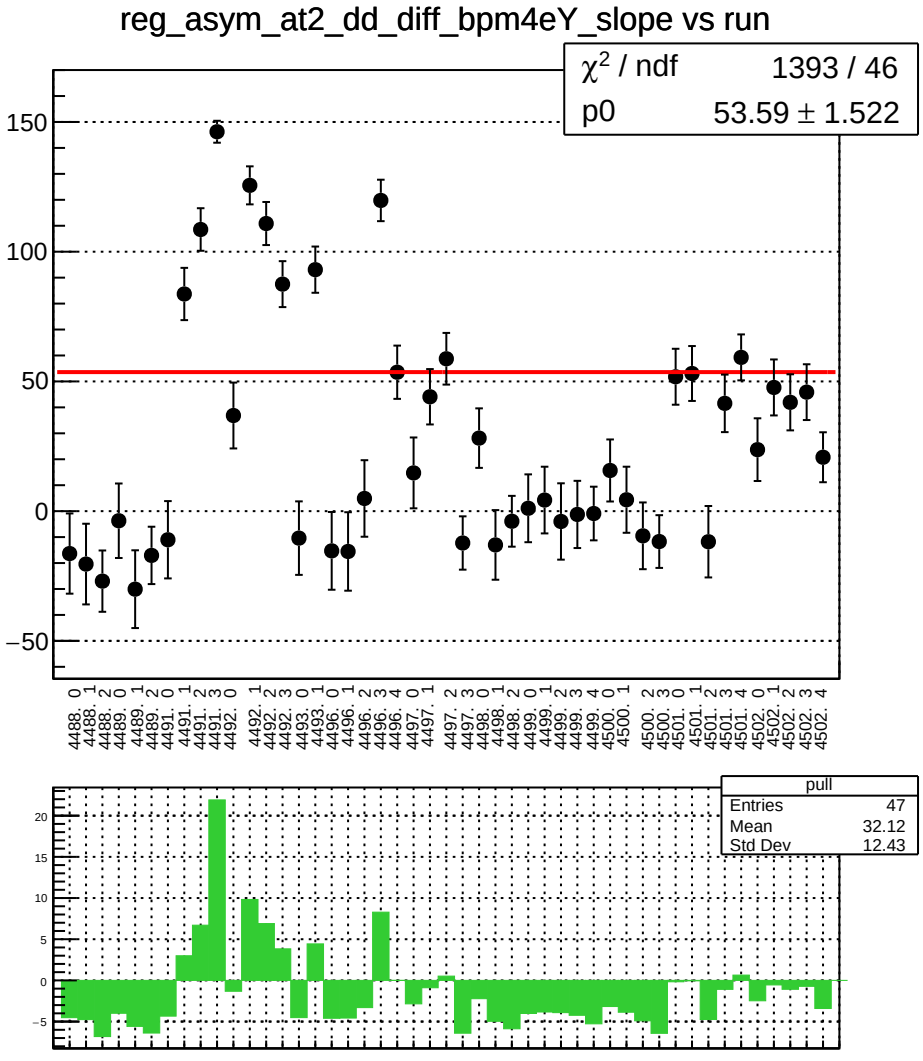

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.96 / 46
p0 −34.88 ± 1.193
pull
Entries 47
Mean −94.94
Std Dev 109.5

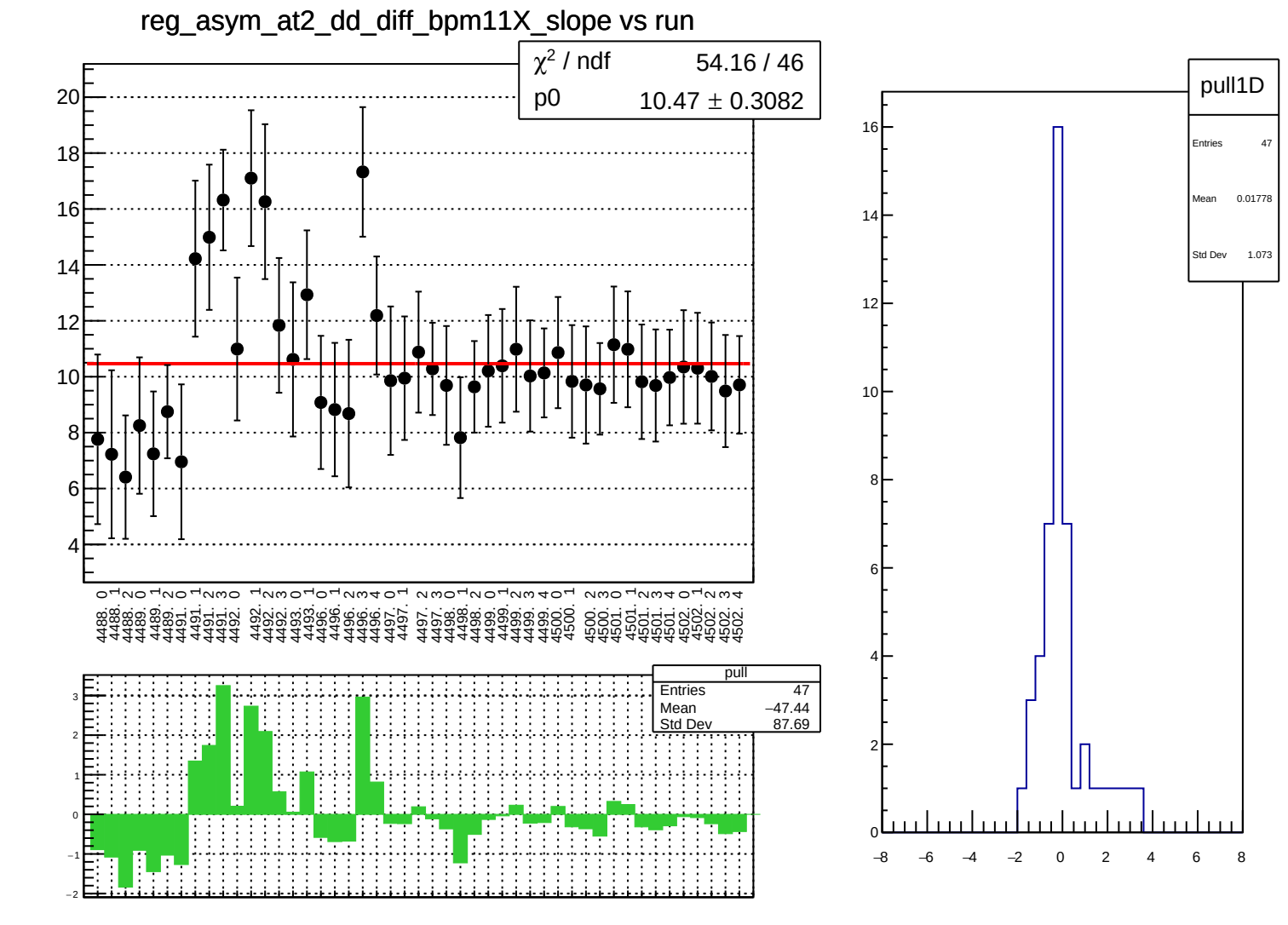

pull1D
Entries 47
Mean −0.0193
Std Dev 0.6833

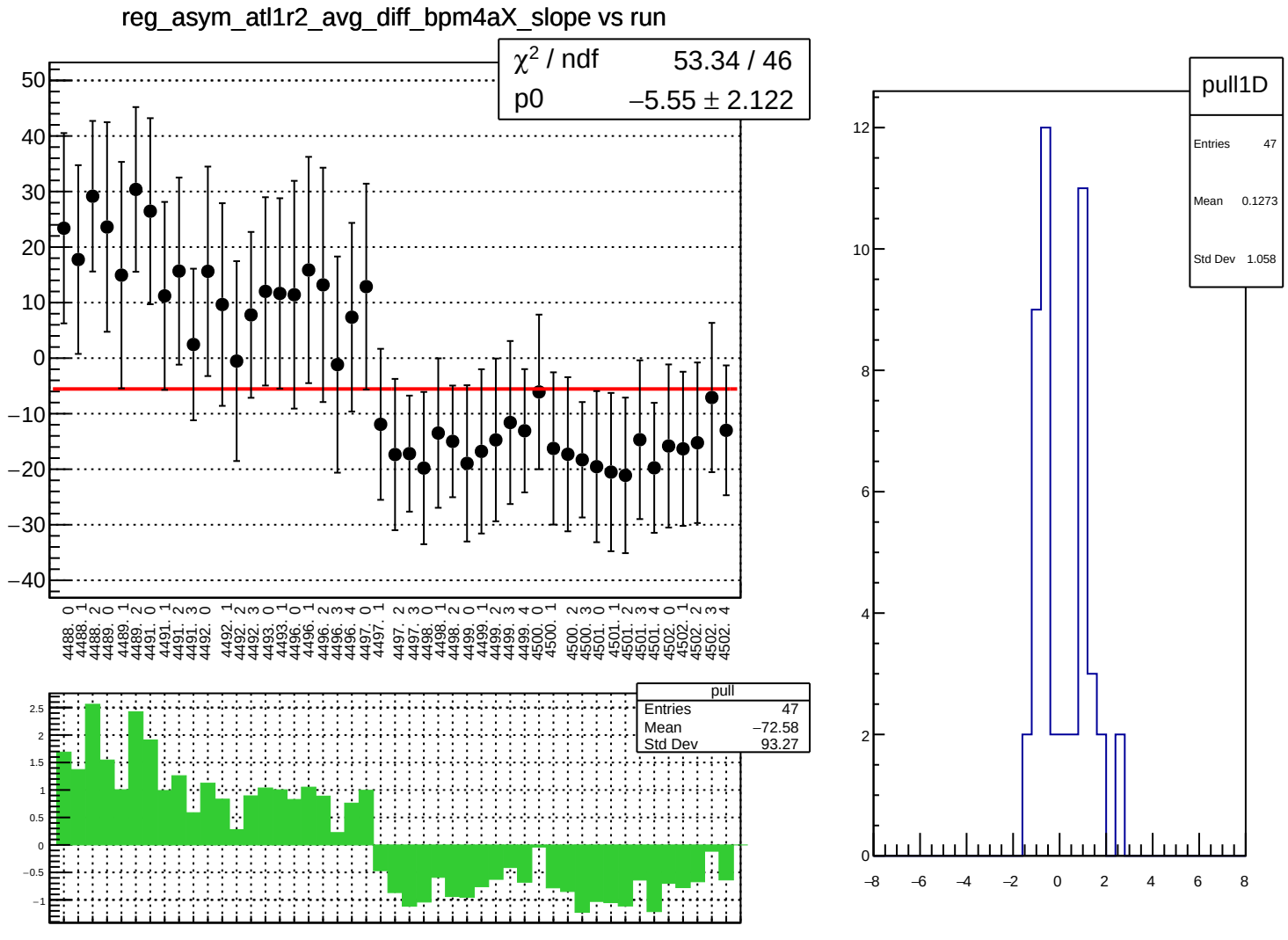

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 1112 / 46
p0 −39.74 ± 1.334
50
0
−50
−100
−150
pull
Entries 47
Mean 43.8
Std Dev 11.8
5
0
−5
−10
−15
−20

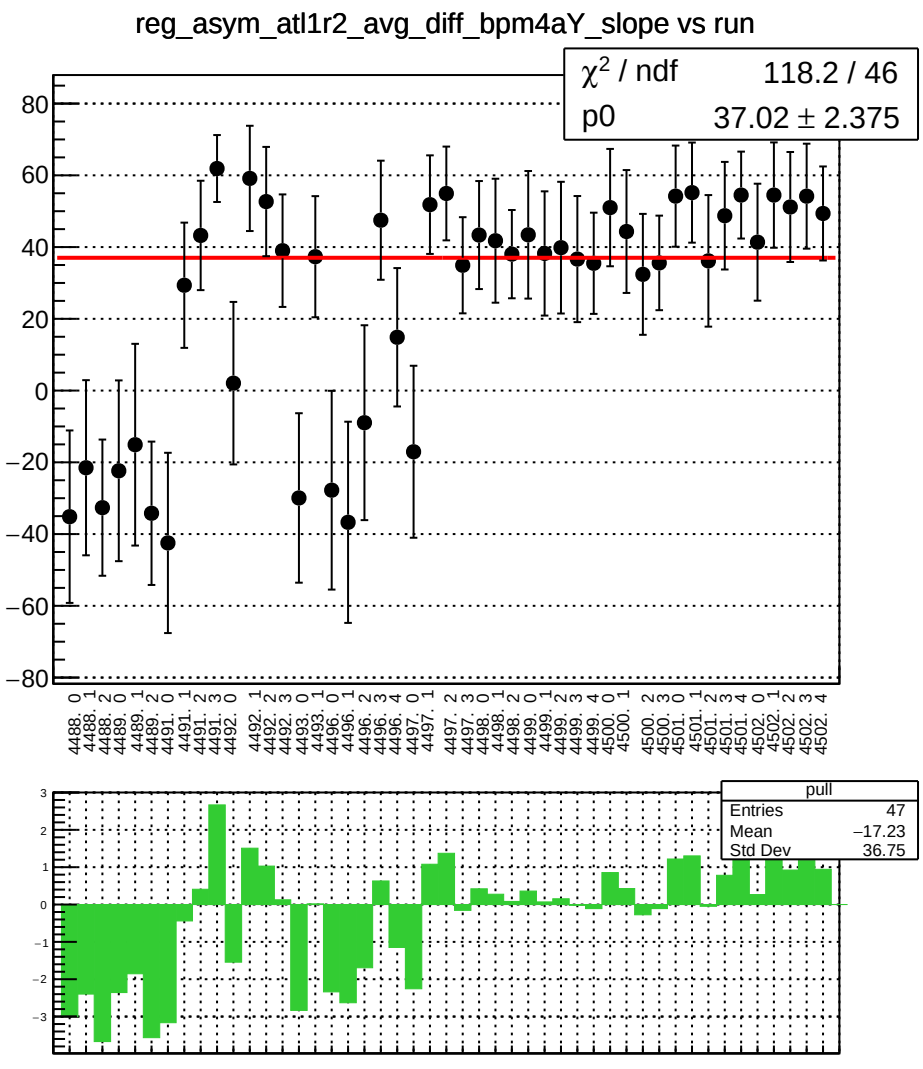

pull1D
Entries 47
Mean 1.478
Std Dev 3.298
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

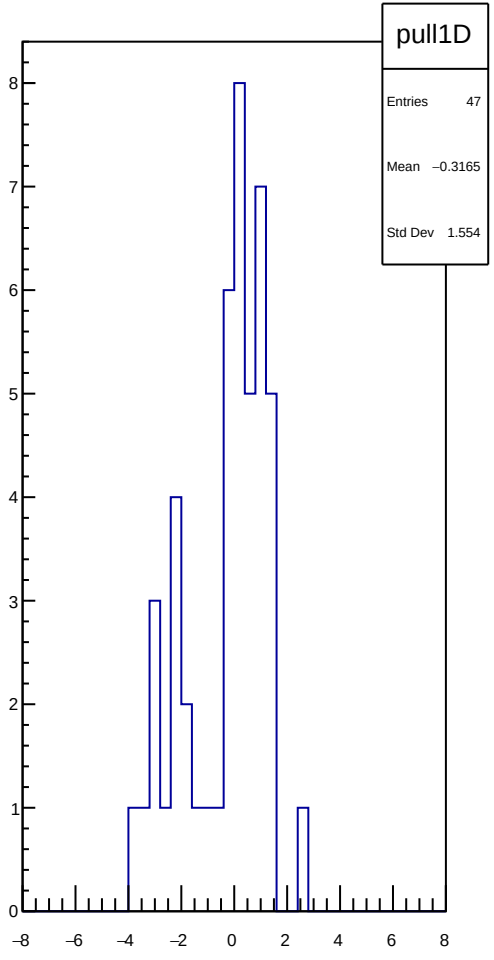

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.32 / 46
p0 99.37 ± 0.201
pull
Entries 47
Mean −47.09
Std Dev 72.81
pull1D
Entries 47
Mean 0.08987
Std Dev 0.9219

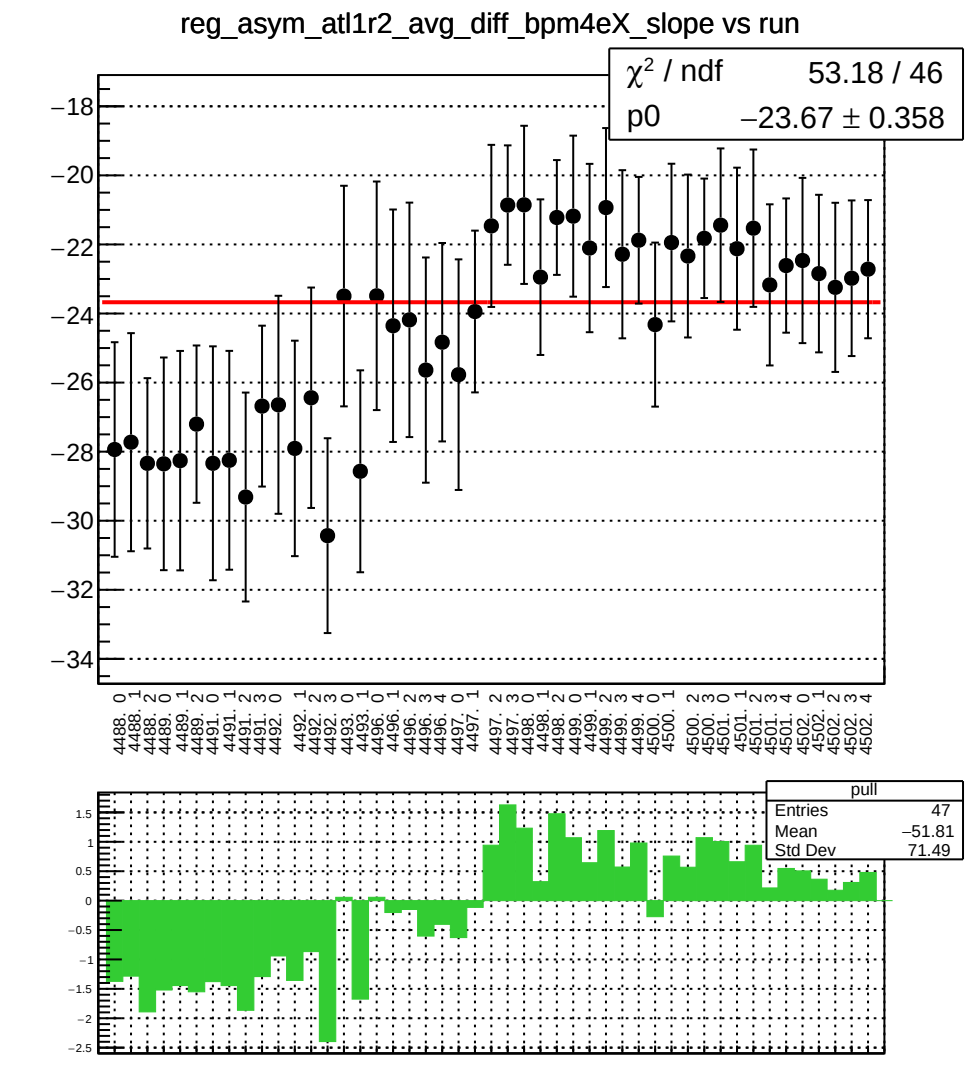

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1393 / 46
p0 53.59 ± 1.522
150
100
50
0
−50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 32.12
Std Dev 12.43
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.405
Std Dev 3.347
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

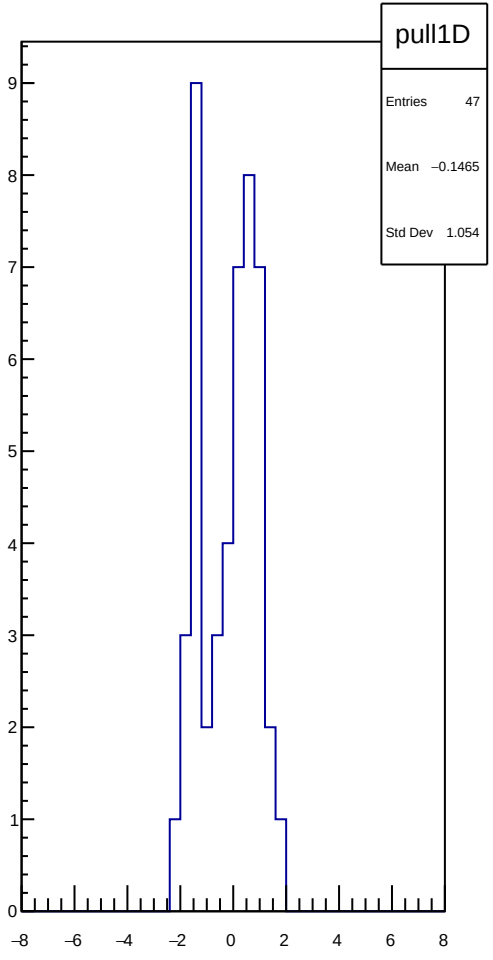

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 54.16 / 46
p0 10.47 ± 0.3082
pull
Entries 47
Mean −47.44
Std Dev 87.69
pull1D
Entries 47
Mean 0.01778
Std Dev 1.073

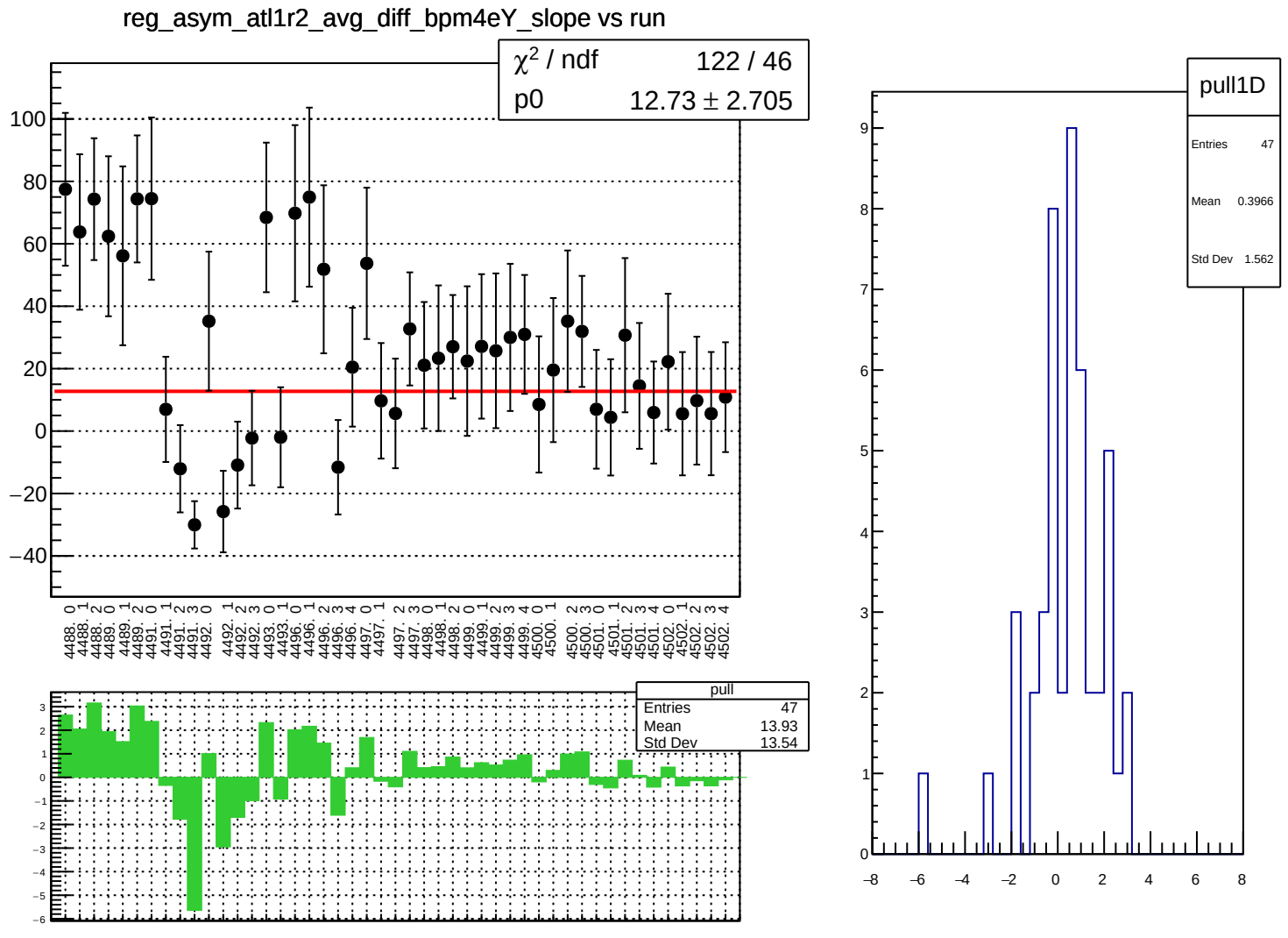

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.34 / 46
p0 −5.55 ± 2.122
pull
Entries 47
Mean −72.58
Std Dev 93.27
pull1D
Entries 47
Mean 0.1273
Std Dev 1.058

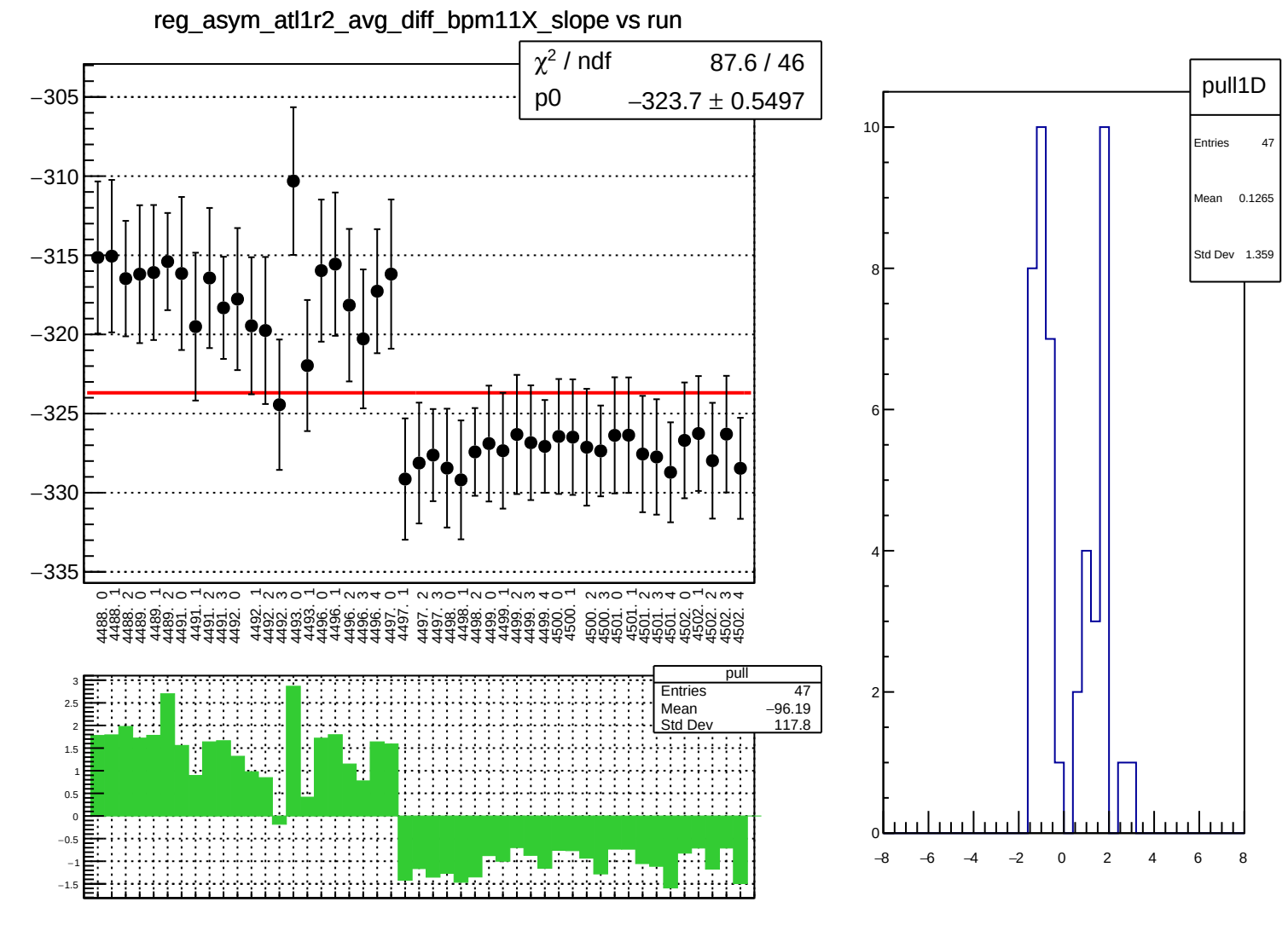

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 118.2 / 46
p0 37.02 ± 2.375
pull
Entries 47
Mean −17.23
Std Dev 36.75

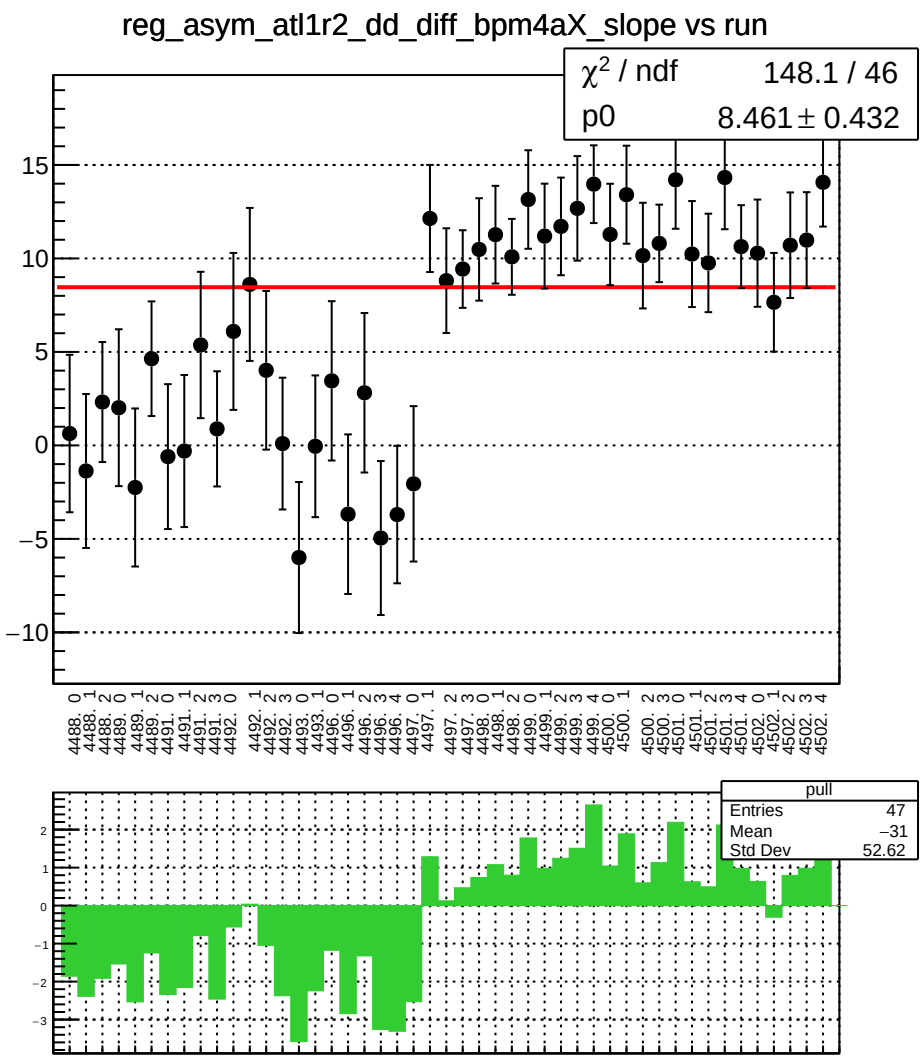

pull1D
Entries 47
Mean −0.3165
Std Dev 1.554

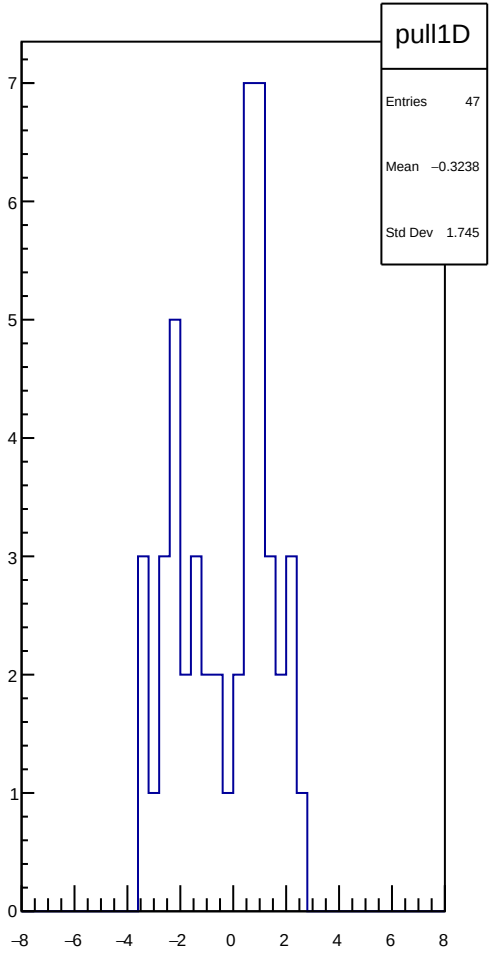

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.18 / 46
p0 −23.67 ± 0.358
pull
Entries 47
Mean −51.81
Std Dev 71.49

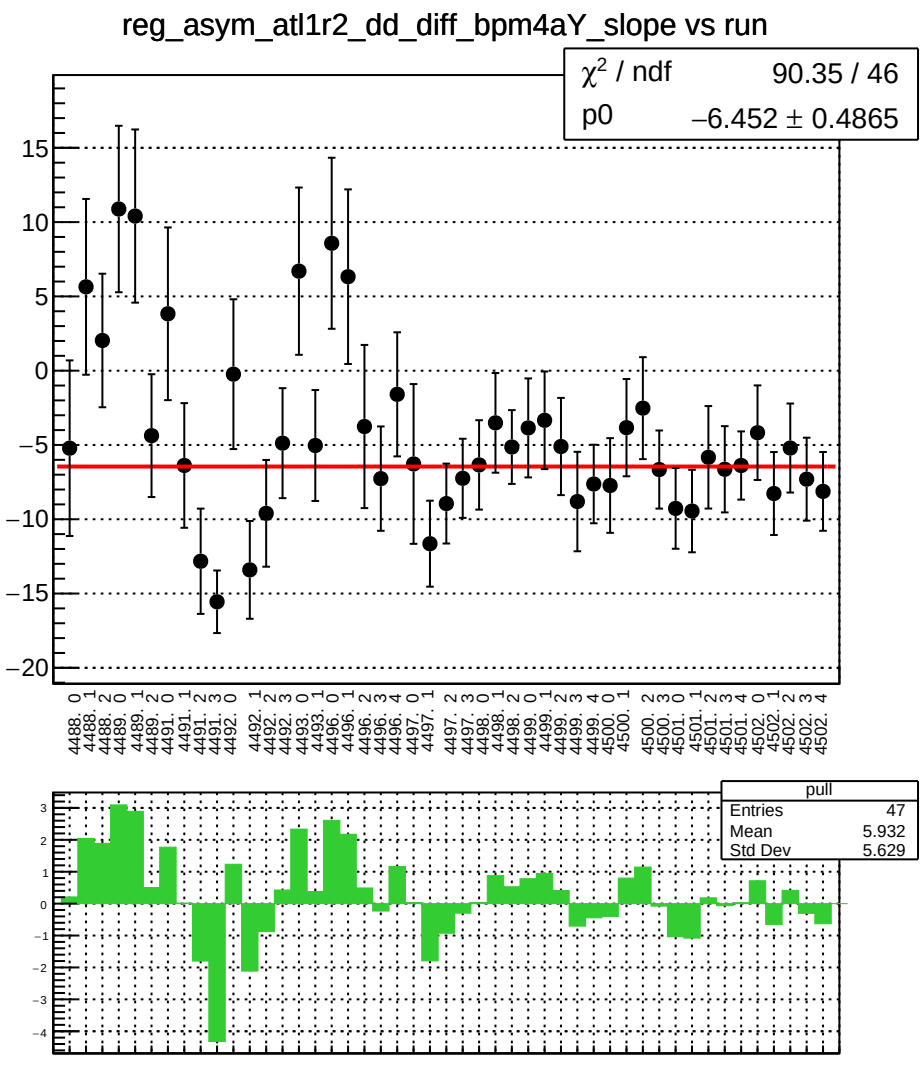

pull1D
Entries 47
Mean −0.1465
Std Dev 1.054

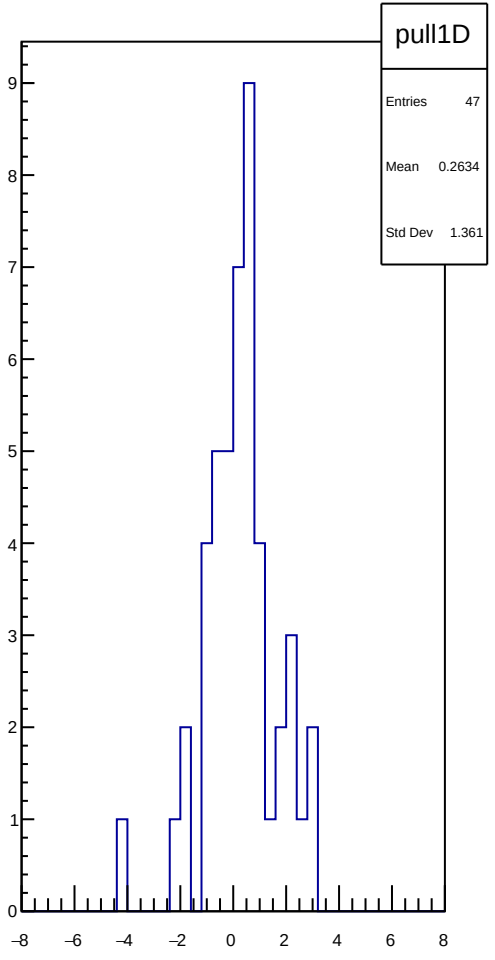

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 122 / 46
p0 12.73 ± 2.705
pull
Entries 47
Mean 13.93
Std Dev 13.54
pull1D
Entries 47
Mean 0.3966
Std Dev 1.562

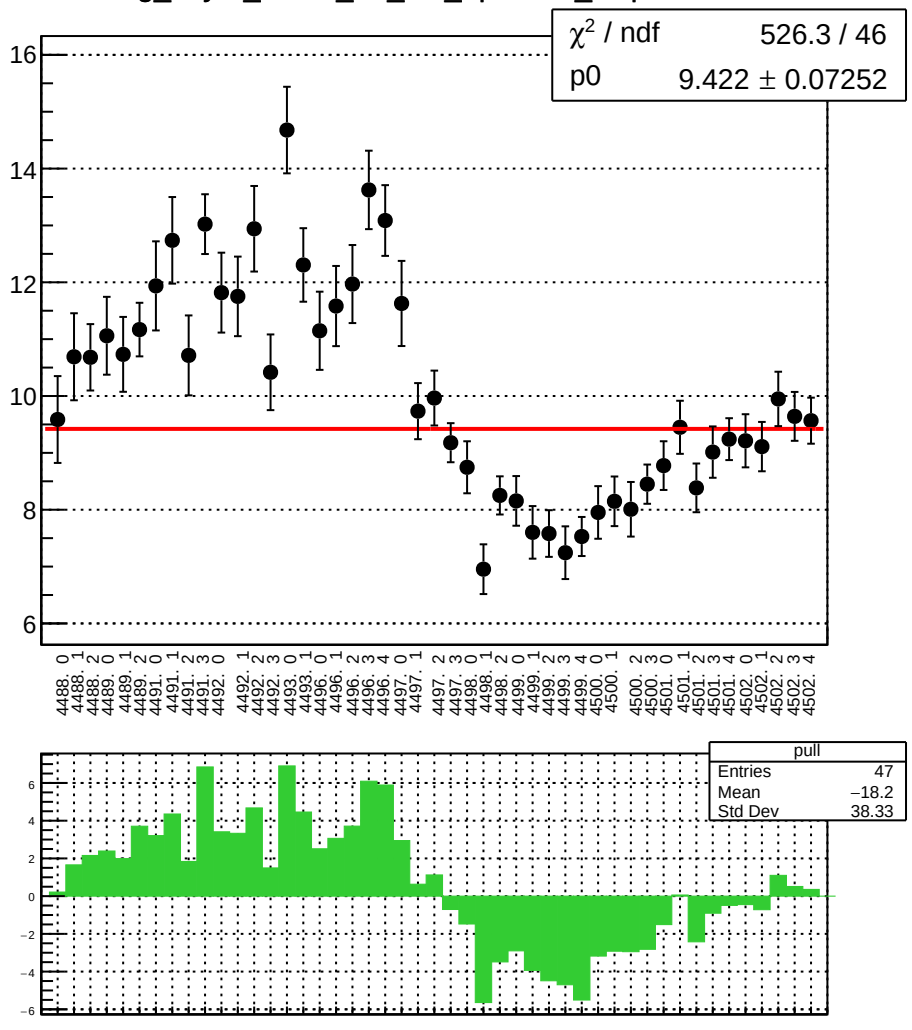

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 87.6 / 46
p0 −323.7 ± 0.5497
−305
−310
−315
−320
−325
−330
−335
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −96.19
Std Dev 117.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.1265
Std Dev 1.359
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

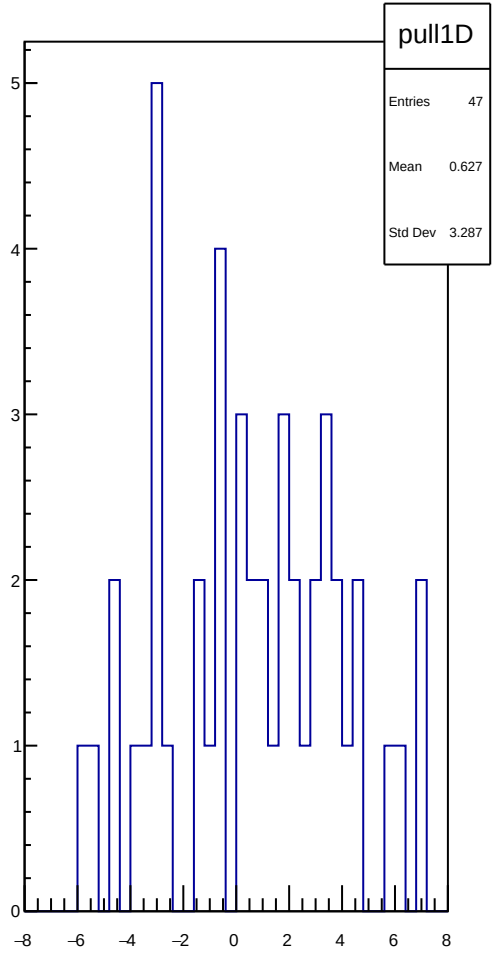

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 148.1 / 46
p0 8.461 ± 0.432
pull
Entries 47
Mean −31
Std Dev 52.62

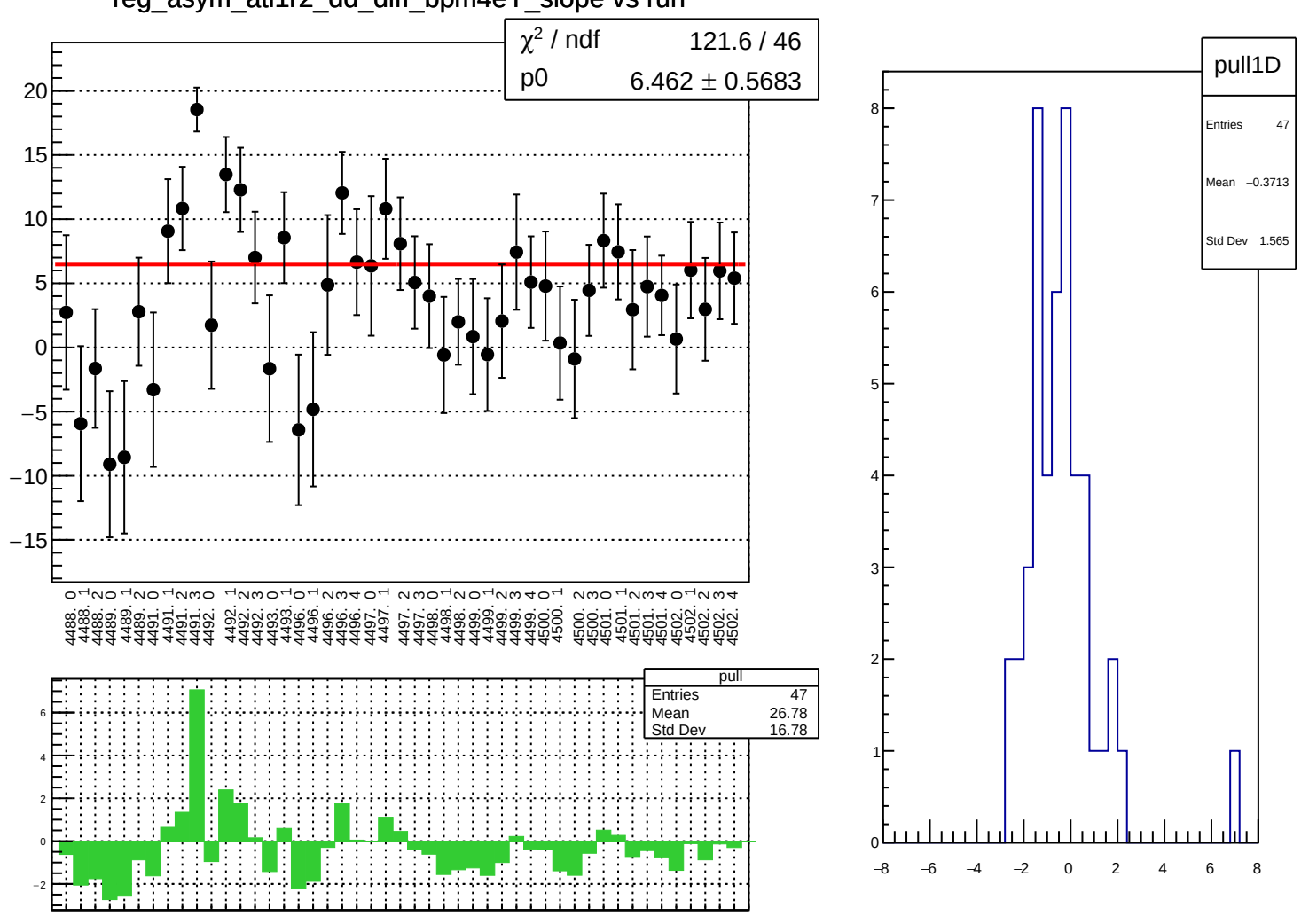

pull1D
Entries 47
Mean −0.3238
Std Dev 1.745

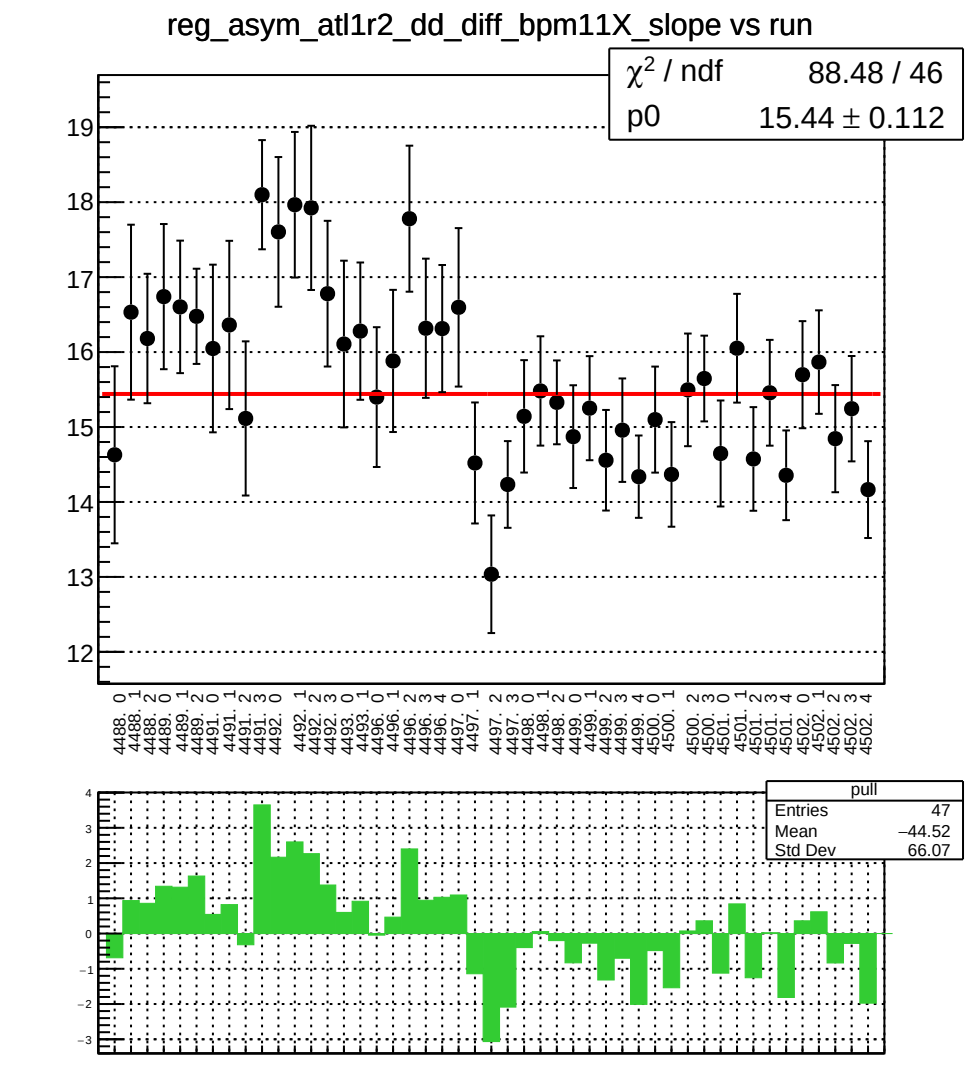

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.35 / 46
p0 −6.452 ± 0.4865
pull
Entries 47
Mean 5.932
Std Dev 5.629

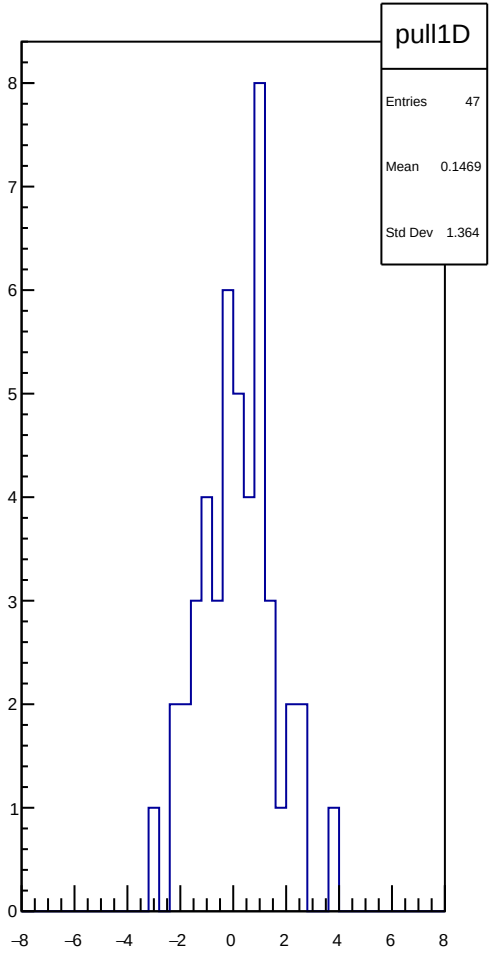

pull1D
Entries 47
Mean 0.2634
Std Dev 1.361

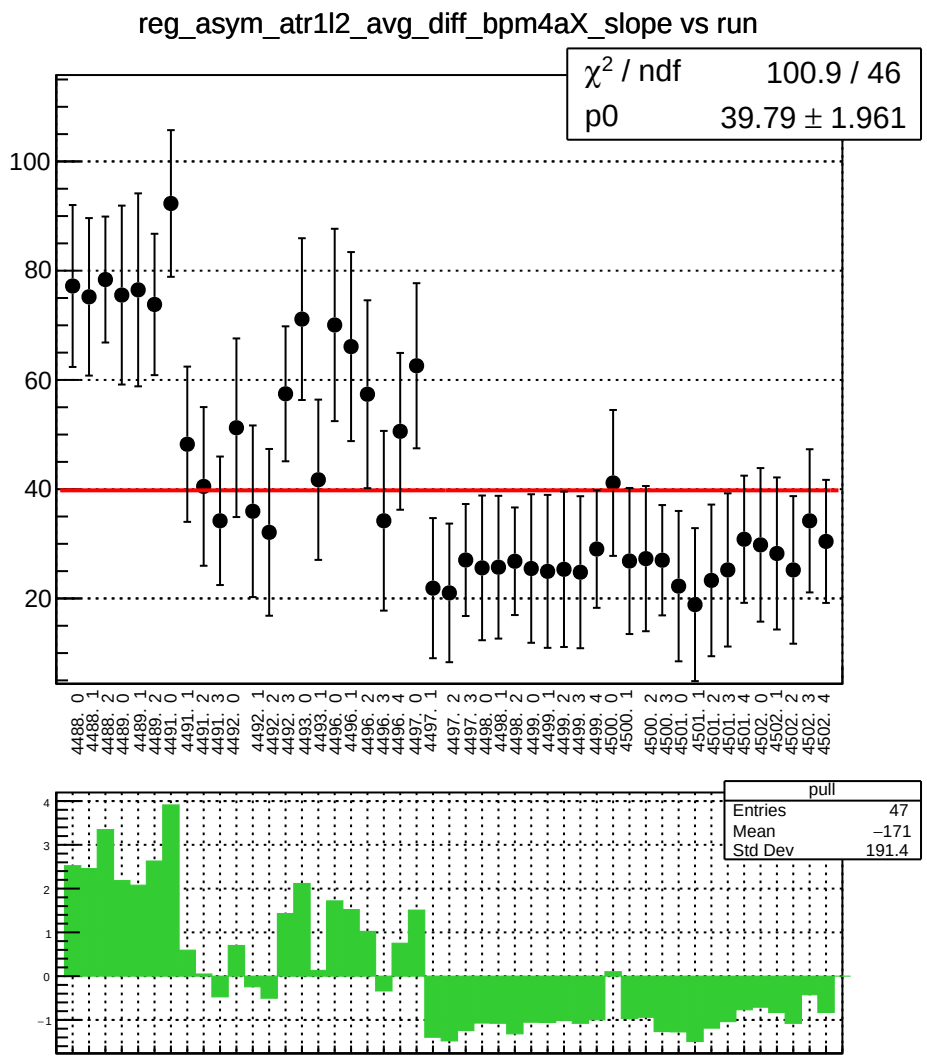

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 526.3 / 46
p0 9.422 ± 0.07252
pull
Entries 47
Mean −18.2
Std Dev 38.33

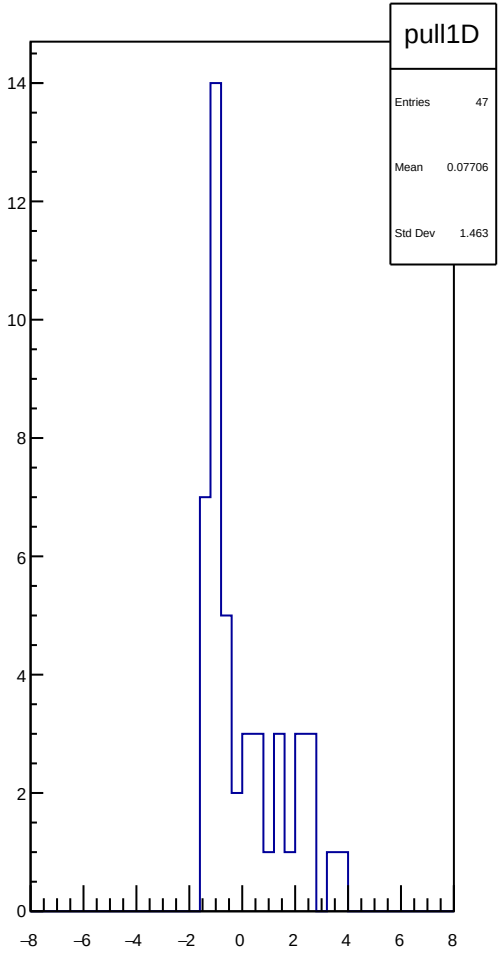

pull1D
Entries 47
Mean 0.627
Std Dev 3.287

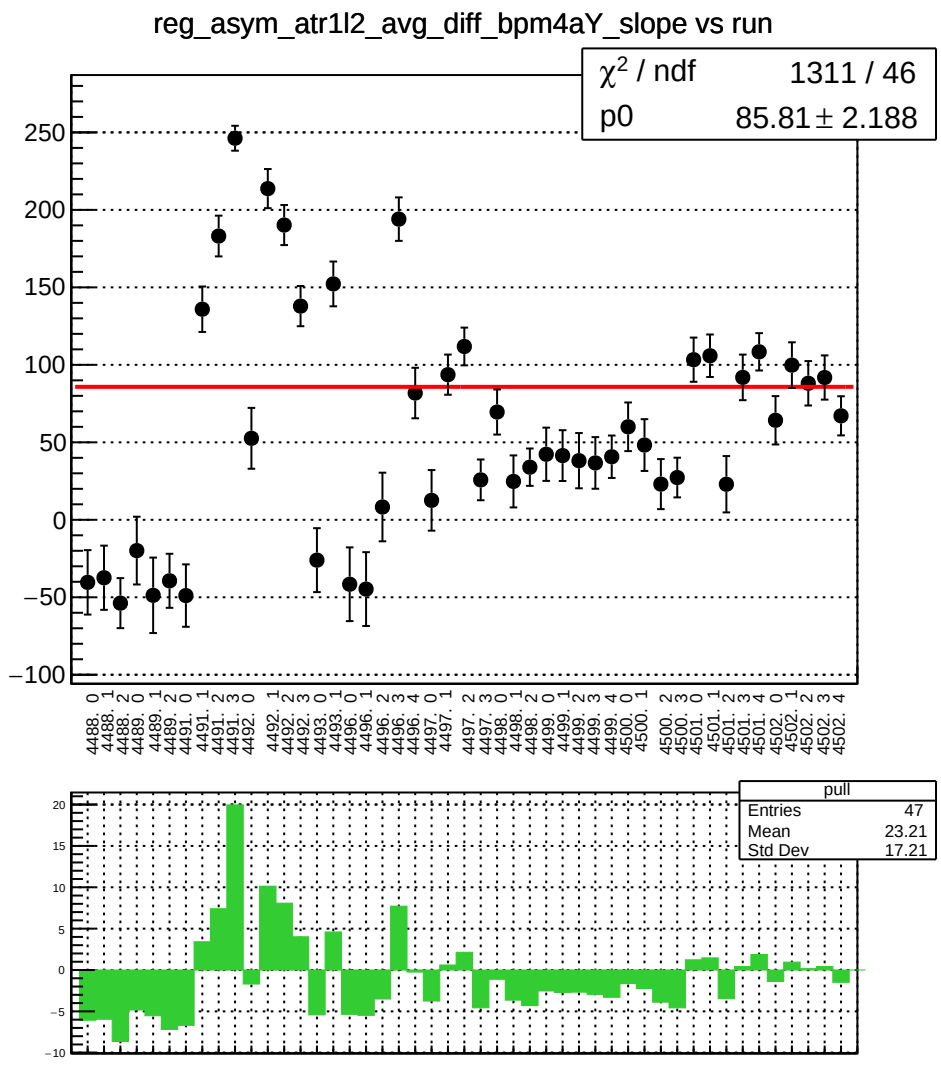

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 121.6 / 46
p0 6.462 ± 0.5683
pull
Entries 47
Mean 26.78
Std Dev 16.78
pull1D
Entries 47
Mean −0.3713
Std Dev 1.565

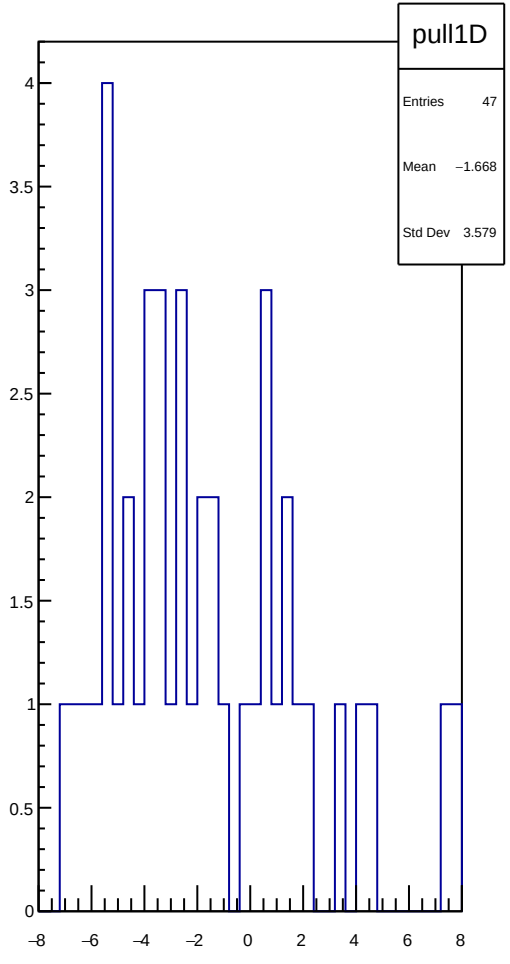

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 88.48 / 46
p0 15.44 ± 0.112
pull
Entries 47
Mean −44.52
Std Dev 66.07

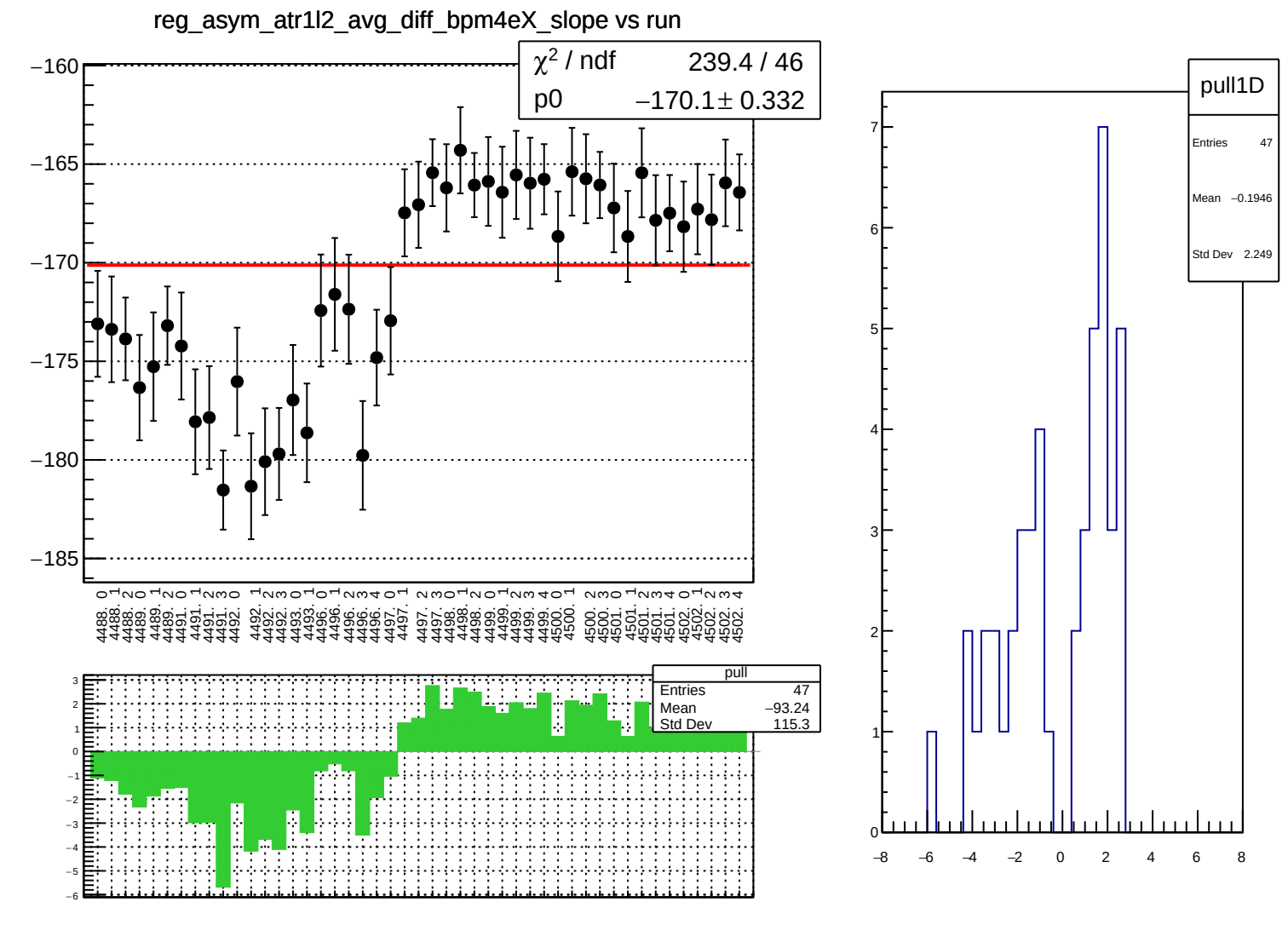

pull1D
Entries 47
Mean 0.1469
Std Dev 1.364

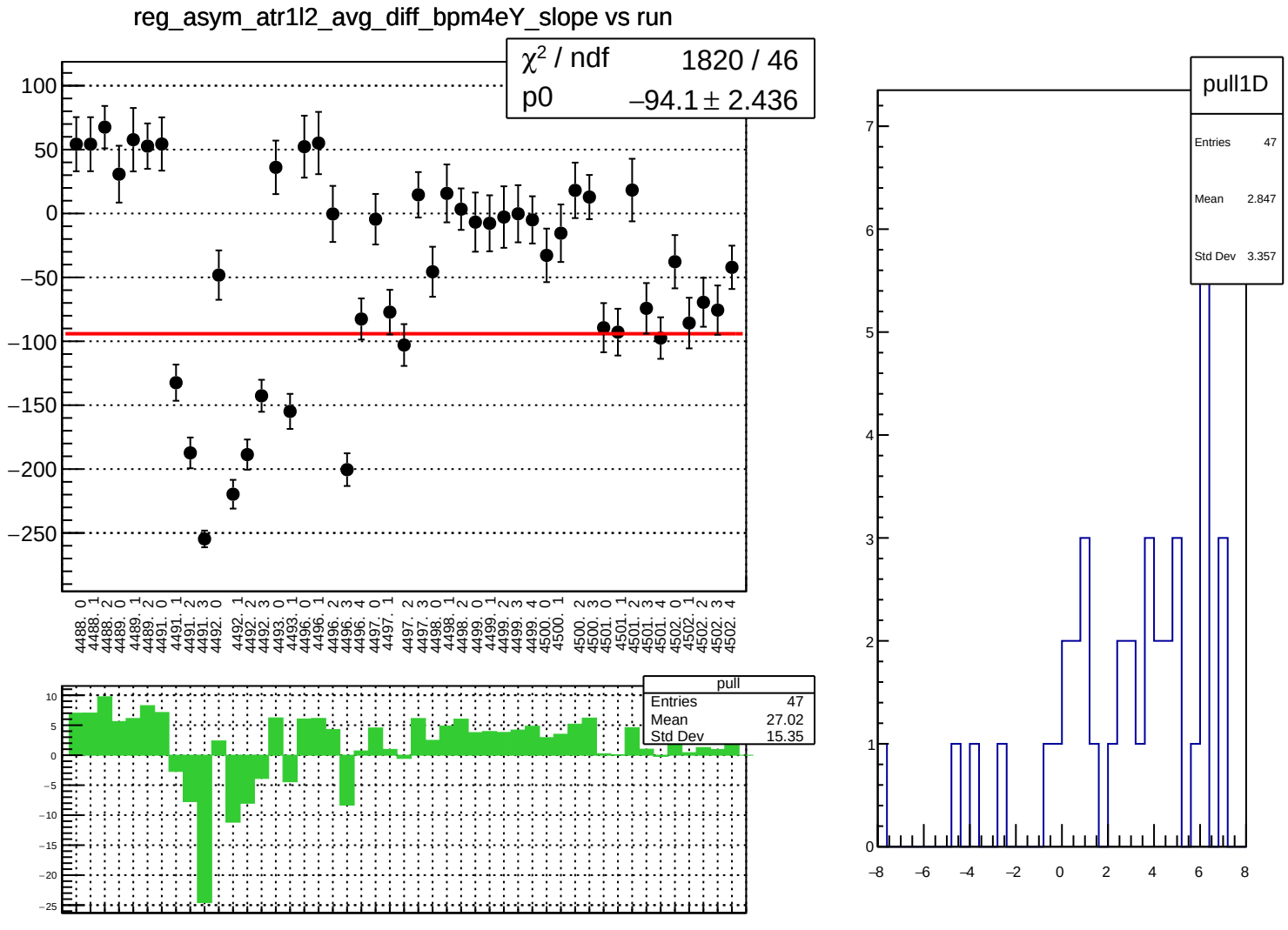

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 100.9 / 46
p0 39.79 ± 1.961
pull
Entries 47
Mean −171
Std Dev 191.4

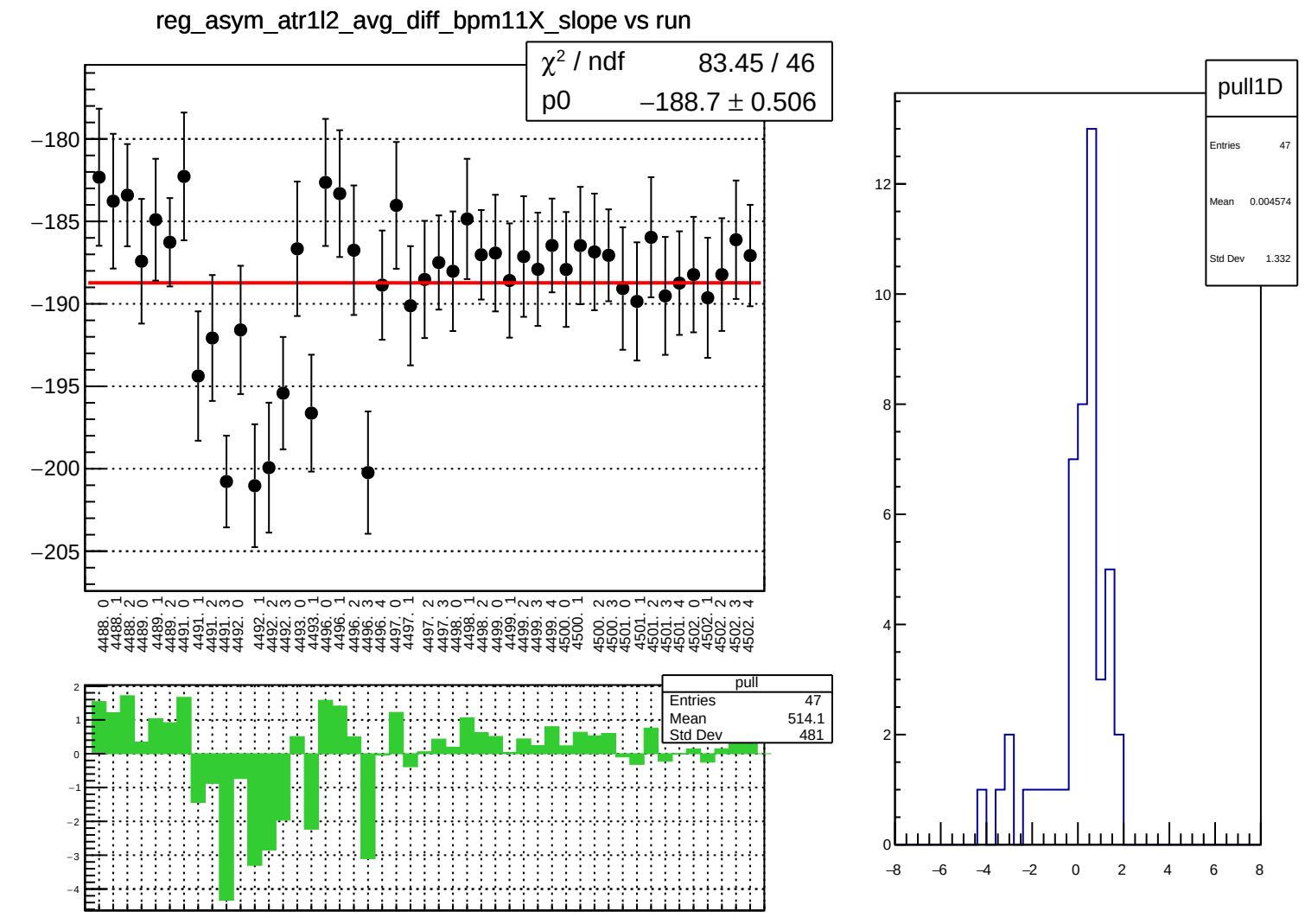

pull1D
Entries 47
Mean 0.07706
Std Dev 1.463

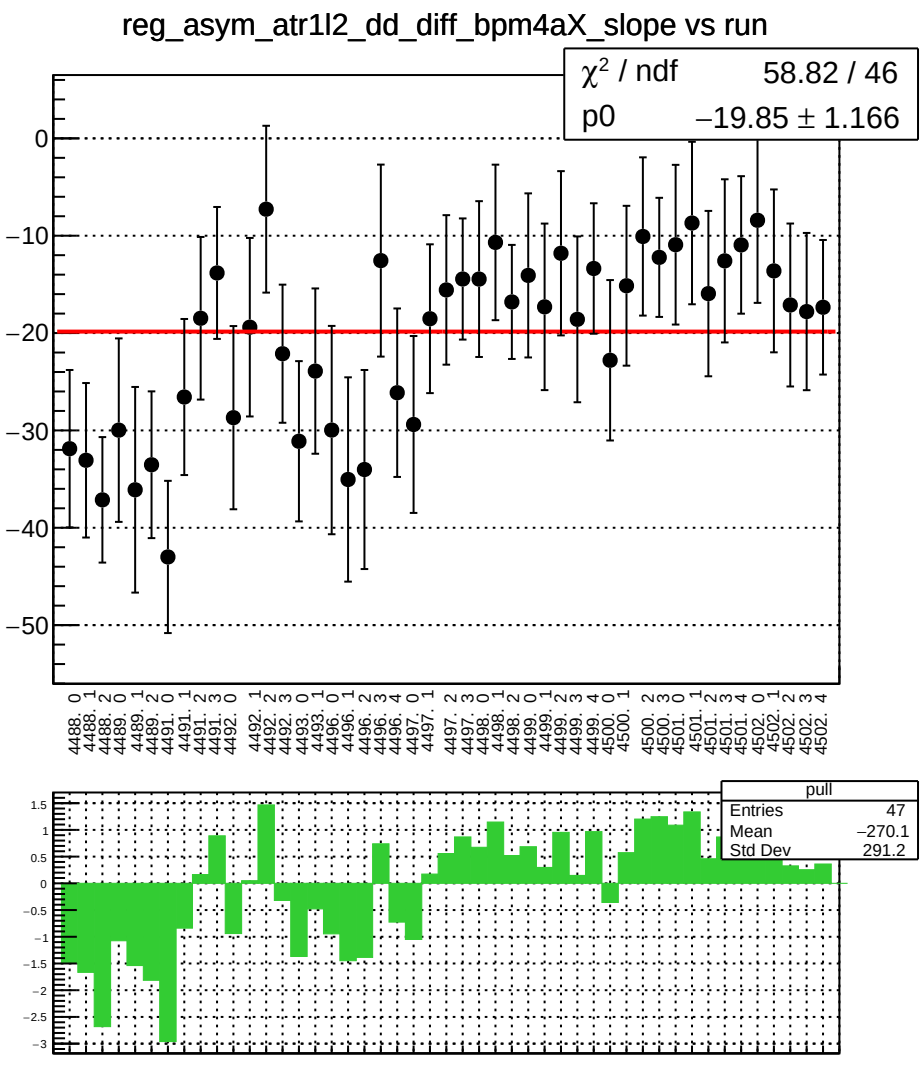

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1311 / 46
p0 85.81 ± 2.188
pull
Entries 47
Mean 23.21
Std Dev 17.21

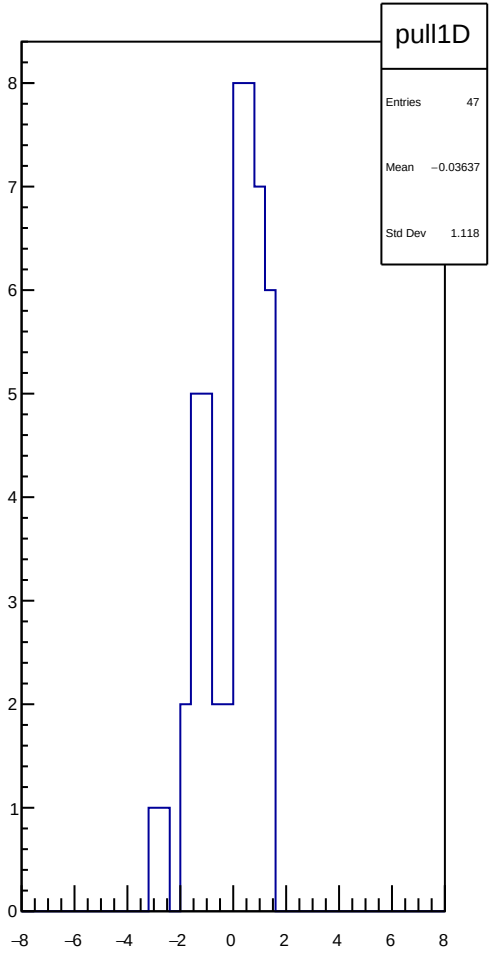

pull1D
Entries 47
Mean −1.668
Std Dev 3.579

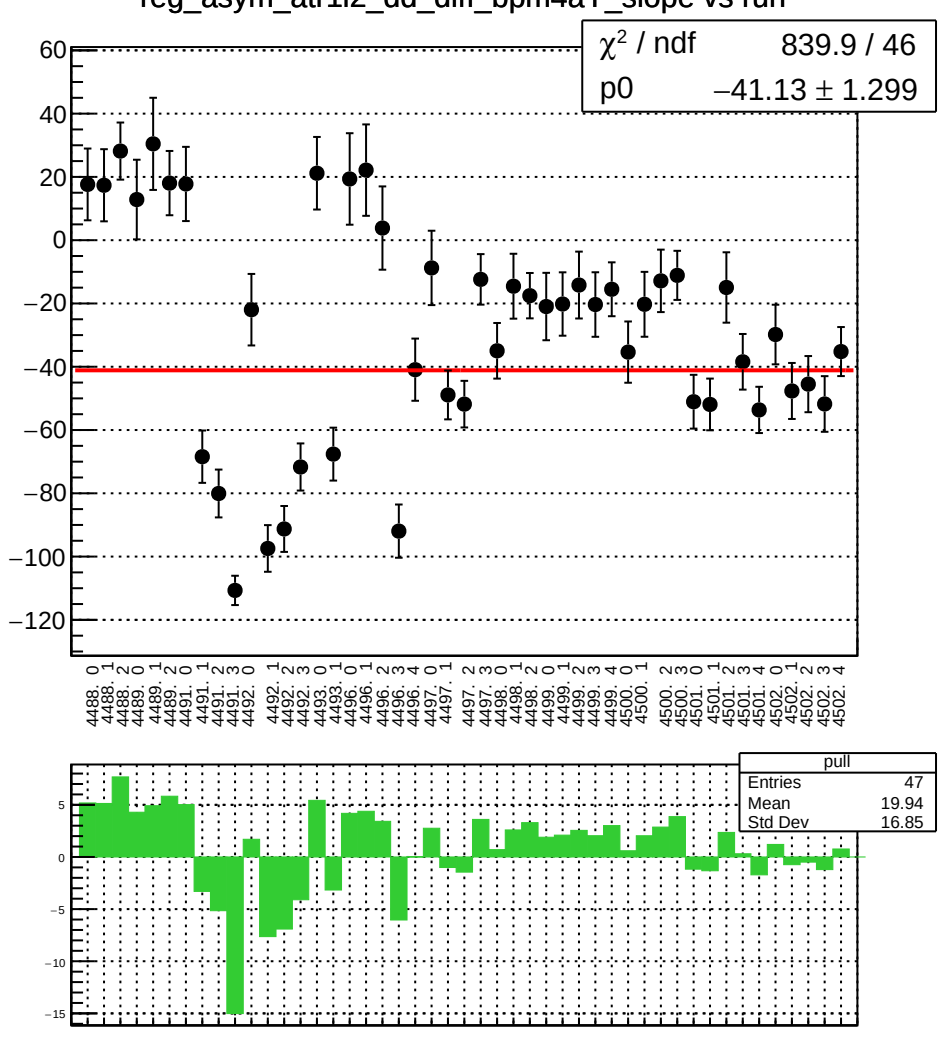

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 239.4 / 46
p0 −170.1± 0.332
pull
Entries 47
Mean −93.24
Std Dev 115.3
pull1D
Entries 47
Mean −0.1946
Std Dev 2.249

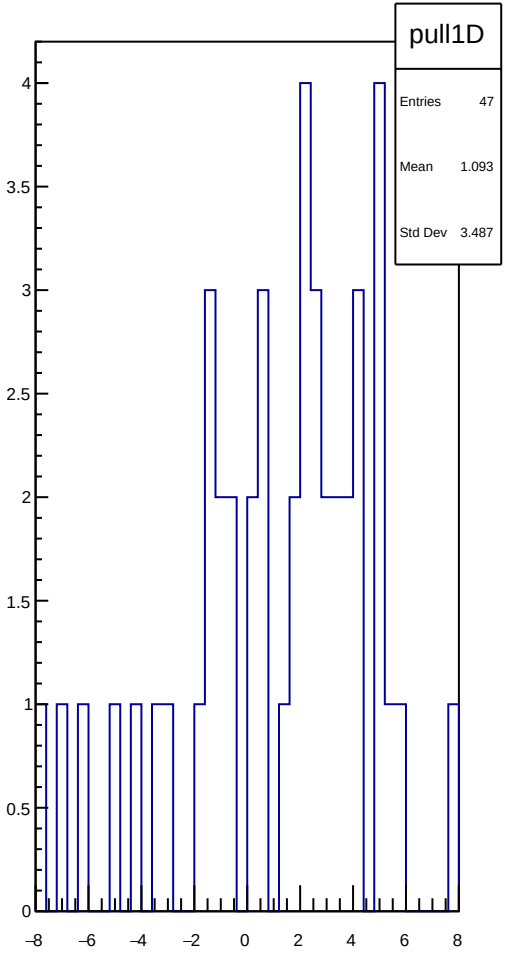

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1820 / 46
p0 −94.1 ± 2.436
pull
Entries 47
Mean 27.02
Std Dev 15.35
pull1D
Entries 47
Mean 2.847
Std Dev 3.357

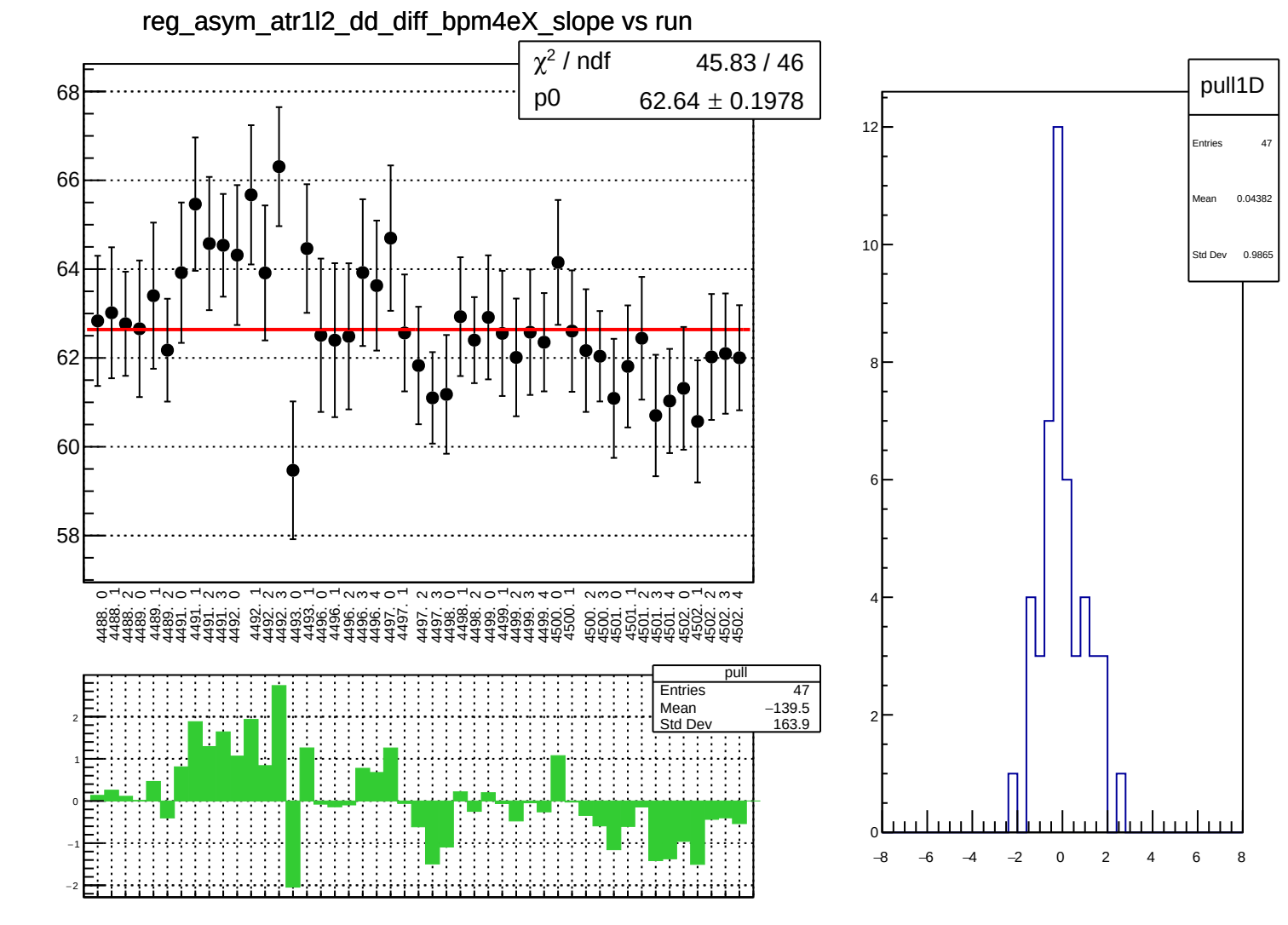

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 83.45 / 46
p0 −188.7 ± 0.506
−180
−185
−190
−195
−200
−205
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 514.1
Std Dev 481
2
1
0
−1
−2
−3
−4
pull1D
Entries 47
Mean 0.004574
Std Dev 1.332
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

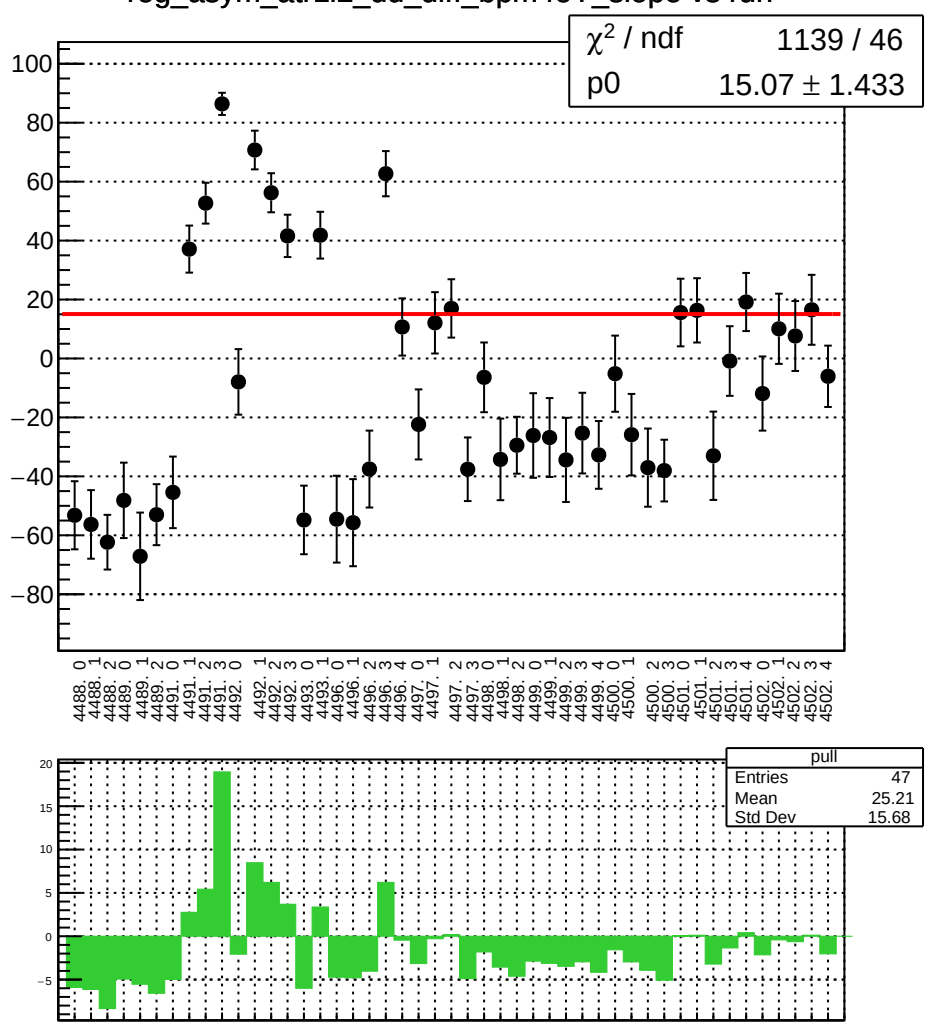

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.82 / 46
p0 −19.85 ± 1.166
pull
Entries 47
Mean −270.1
Std Dev 291.2

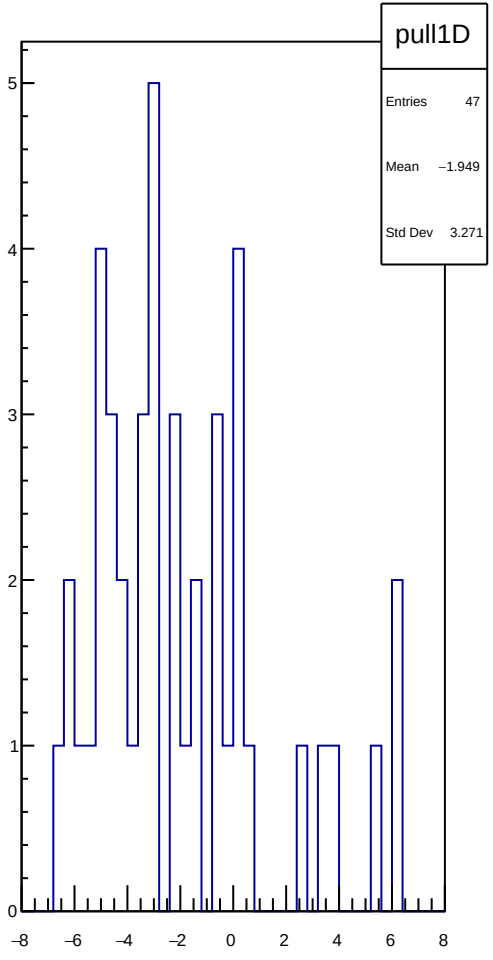

pull1D
Entries 47
Mean −0.03637
Std Dev 1.118

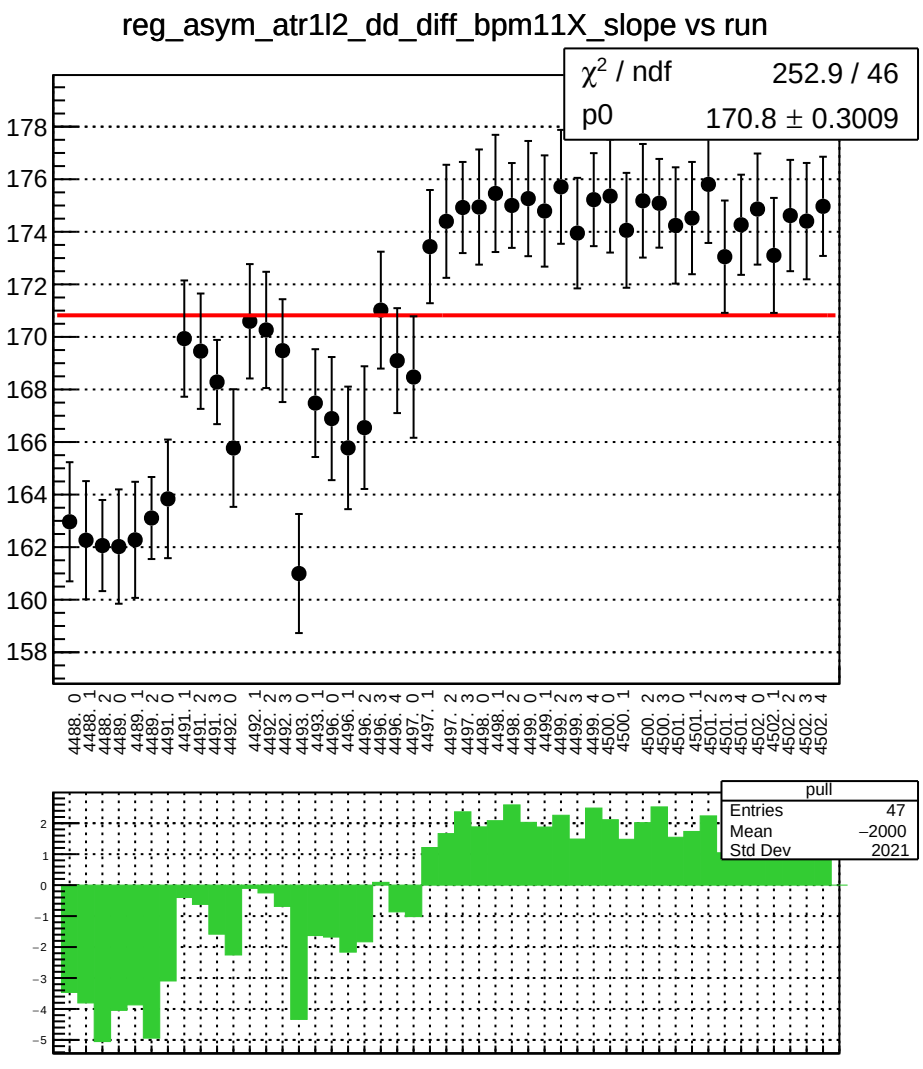

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 839.9 / 46
p0 −41.13 ± 1.299
pull
Entries 47
Mean 19.94
Std Dev 16.85

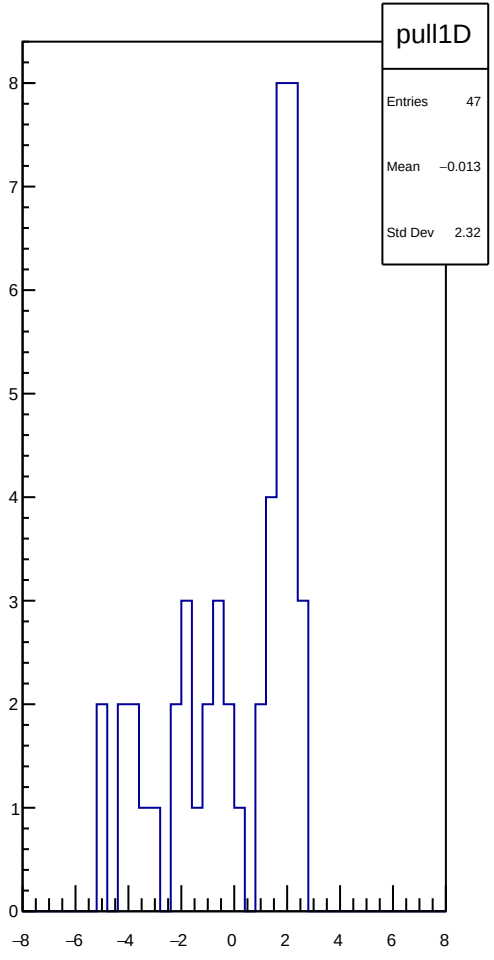

pull1D
Entries 47
Mean 1.093
Std Dev 3.487

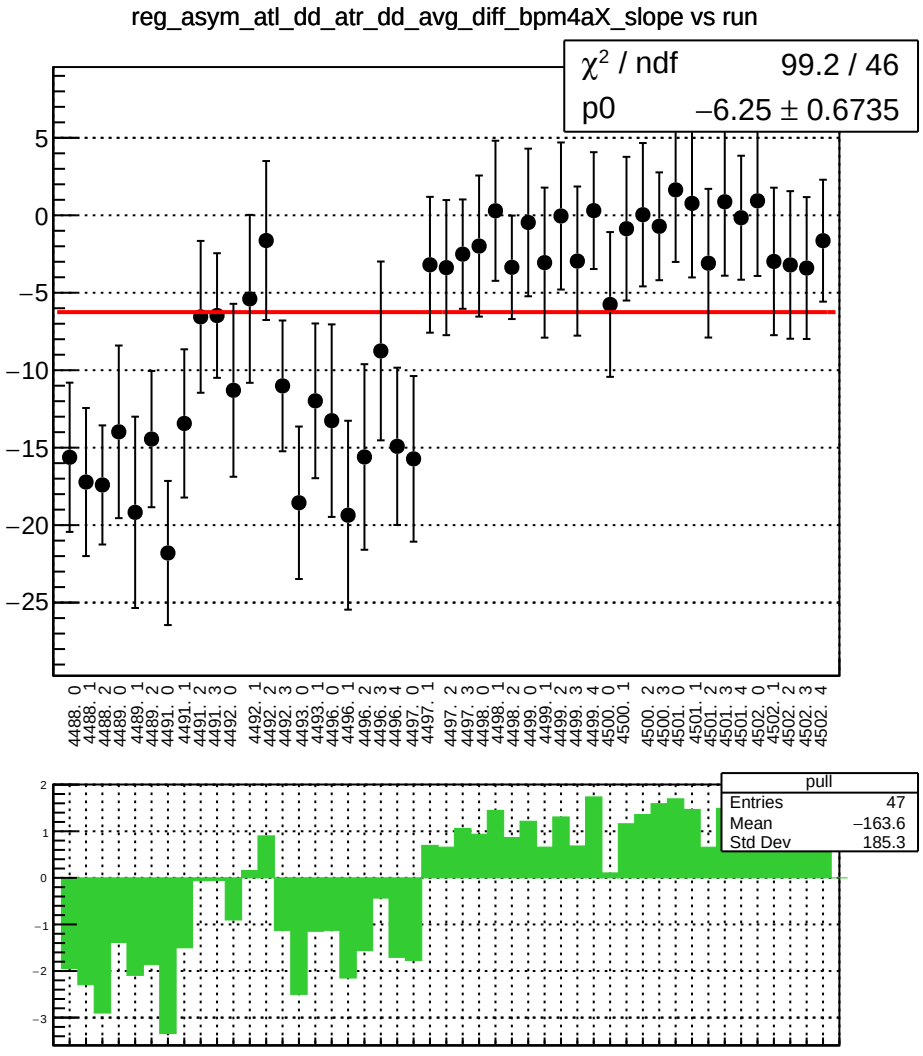

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.83 / 46
p0 62.64 ± 0.1978
pull
Entries 47
Mean −139.5
Std Dev 163.9
pull1D
Entries 47
Mean 0.04382
Std Dev 0.9865

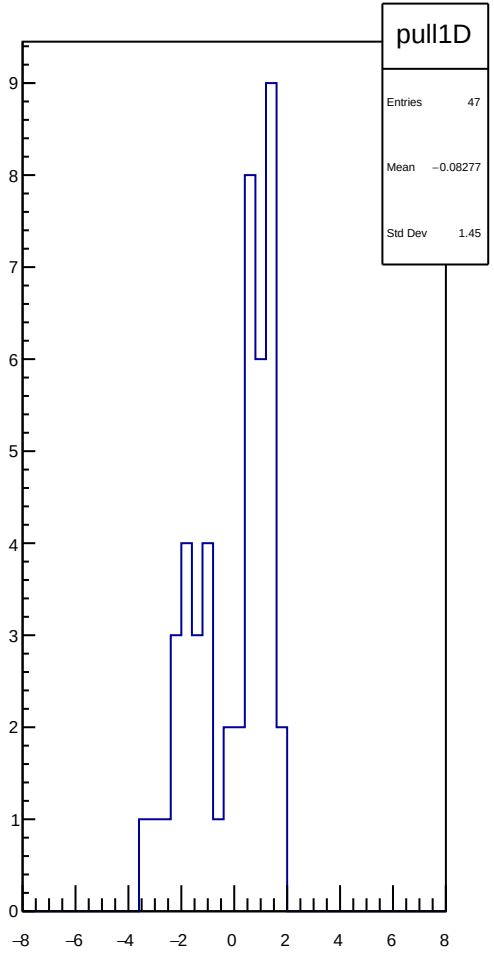

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1139 / 46
p0 15.07 ± 1.433
pull
Entries 47
Mean 25.21
Std Dev 15.68

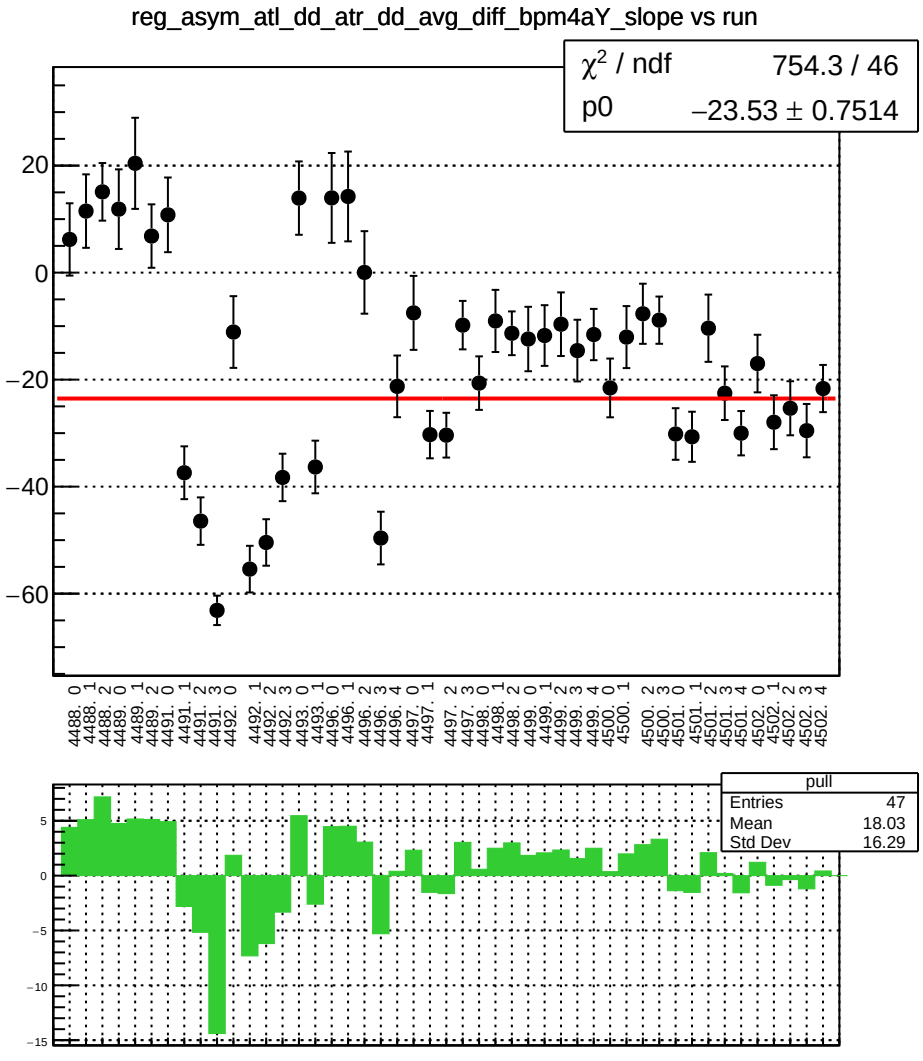

pull1D
Entries 47
Mean −1.949
Std Dev 3.271

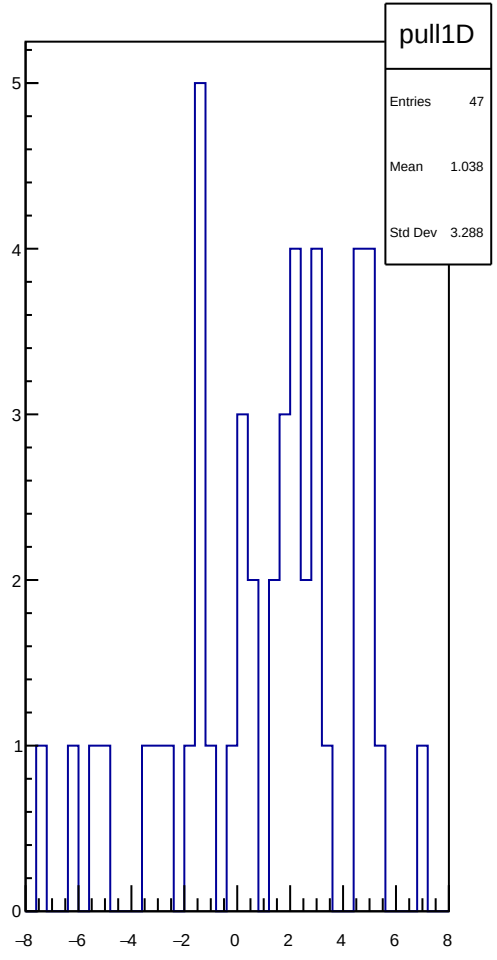

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 252.9 / 46
p0 170.8 ± 0.3009
178
176
174
172
170
168
166
164
162
160
158
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −2000
Std Dev 2021
2
1
0
−1
−2
−3
−4
−5

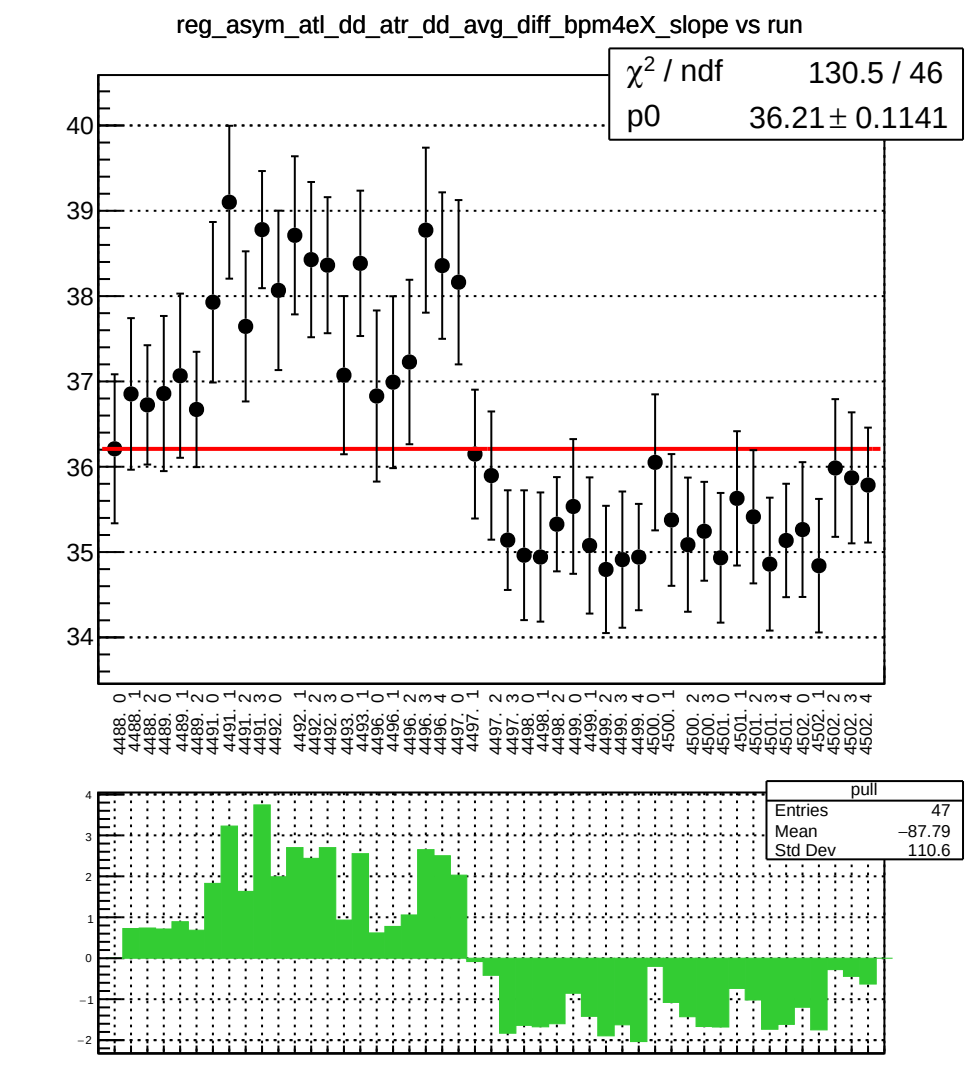

pull1D
Entries 47
Mean −0.013
Std Dev 2.32
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

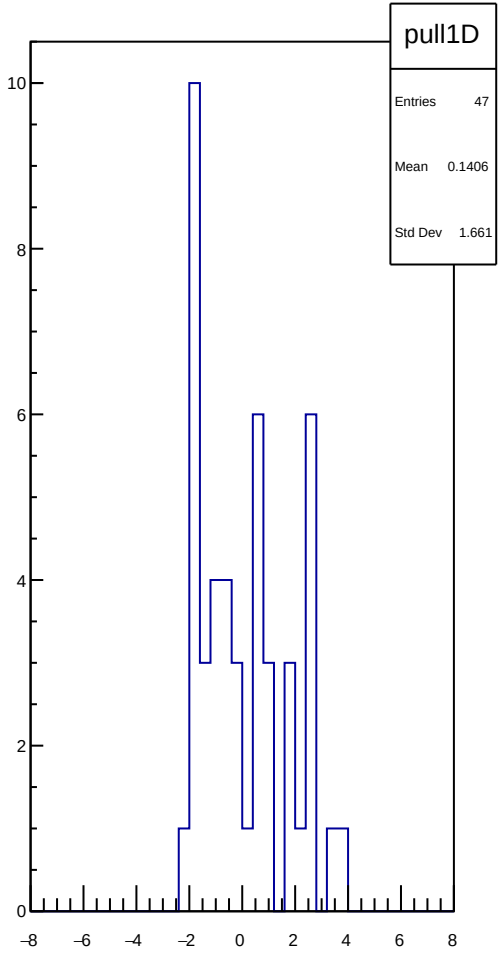

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 99.2 / 46
p0 −6.25 ± 0.6735
pull
Entries 47
Mean −163.6
Std Dev 185.3

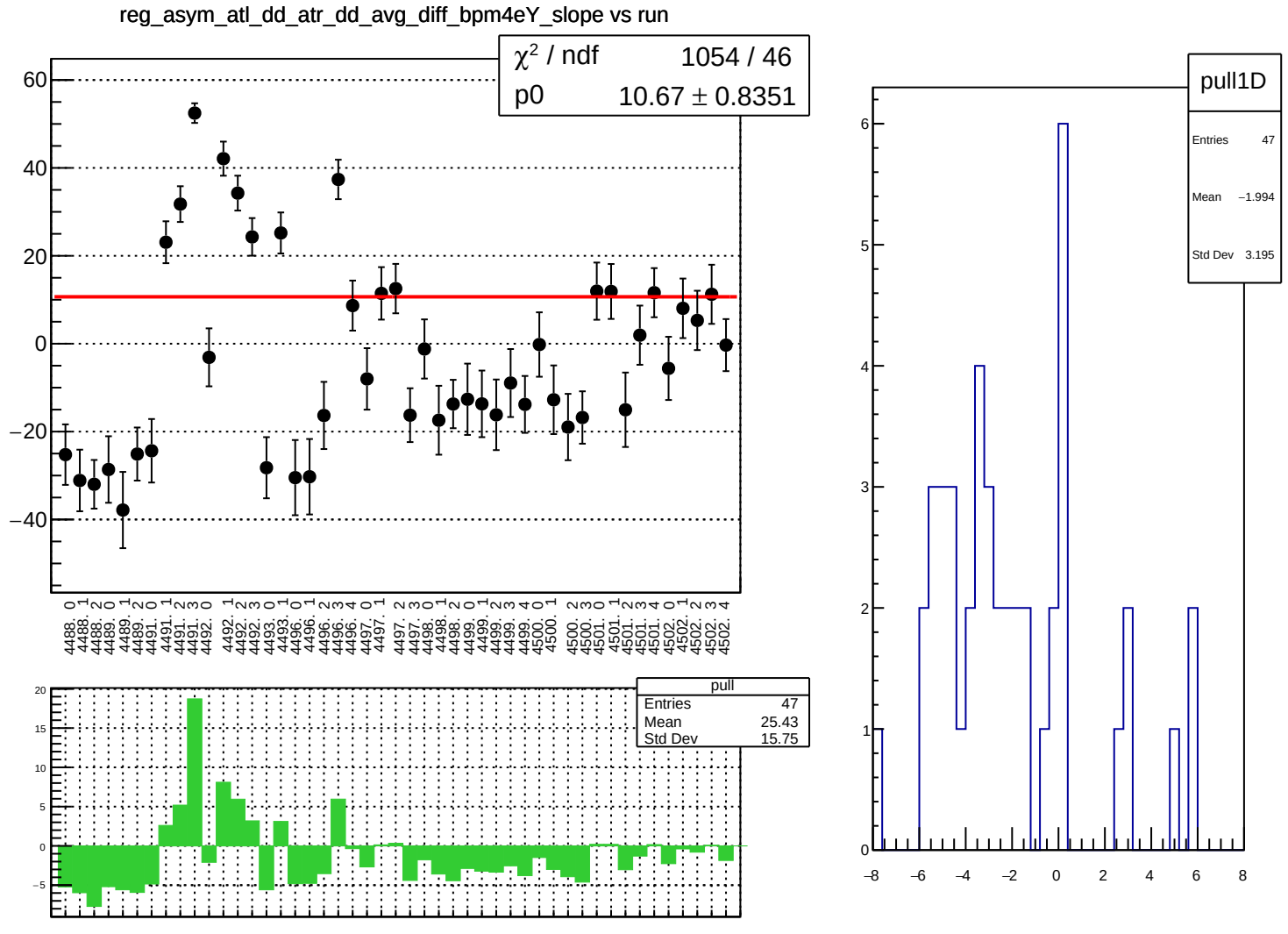

pull1D
Entries 47
Mean −0.08277
Std Dev 1.45

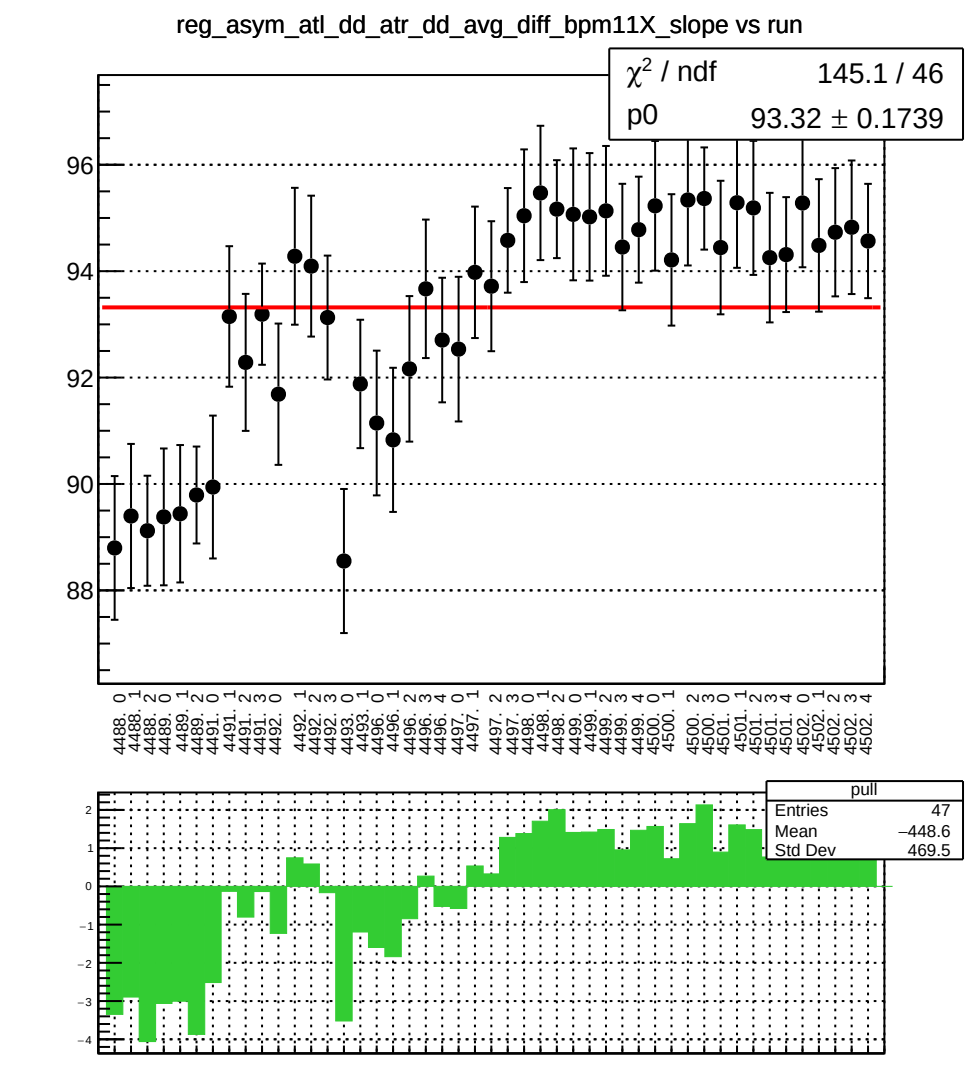

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 754.3 / 46
p0 −23.53 ± 0.7514
pull
Entries 47
Mean 18.03
Std Dev 16.29

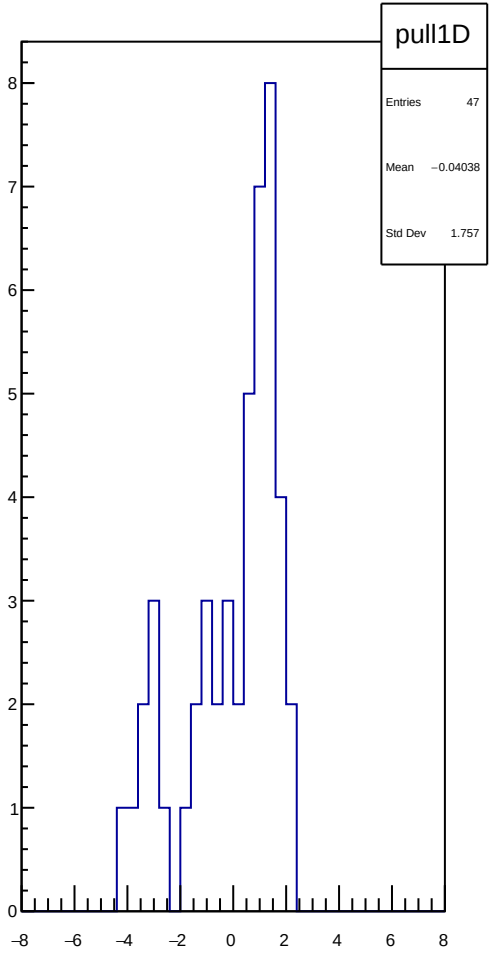

pull1D
Entries 47
Mean 1.038
Std Dev 3.288

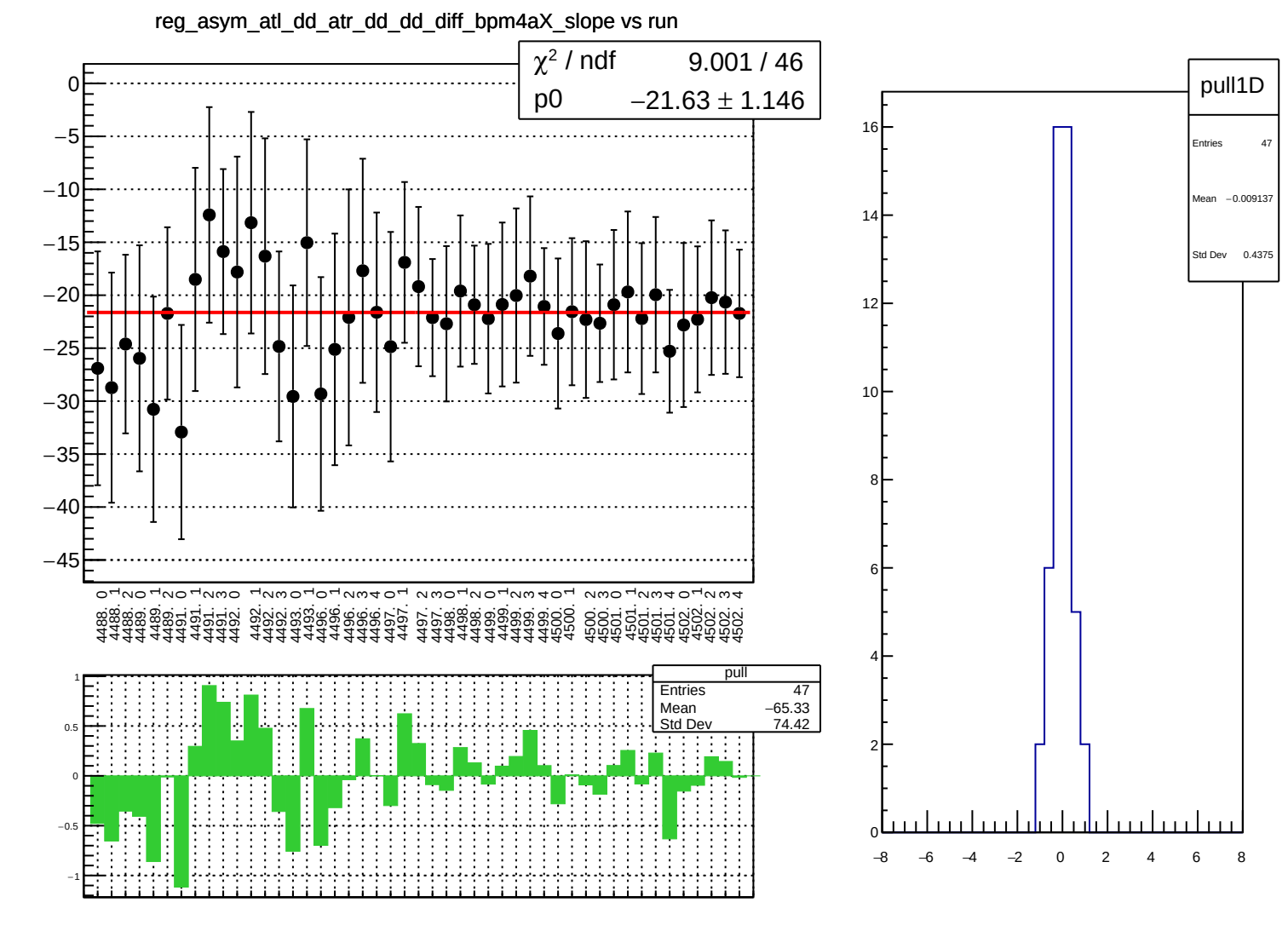

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.5 / 46
p0 36.21 ± 0.1141
pull
Entries 47
Mean −87.79
Std Dev 110.6

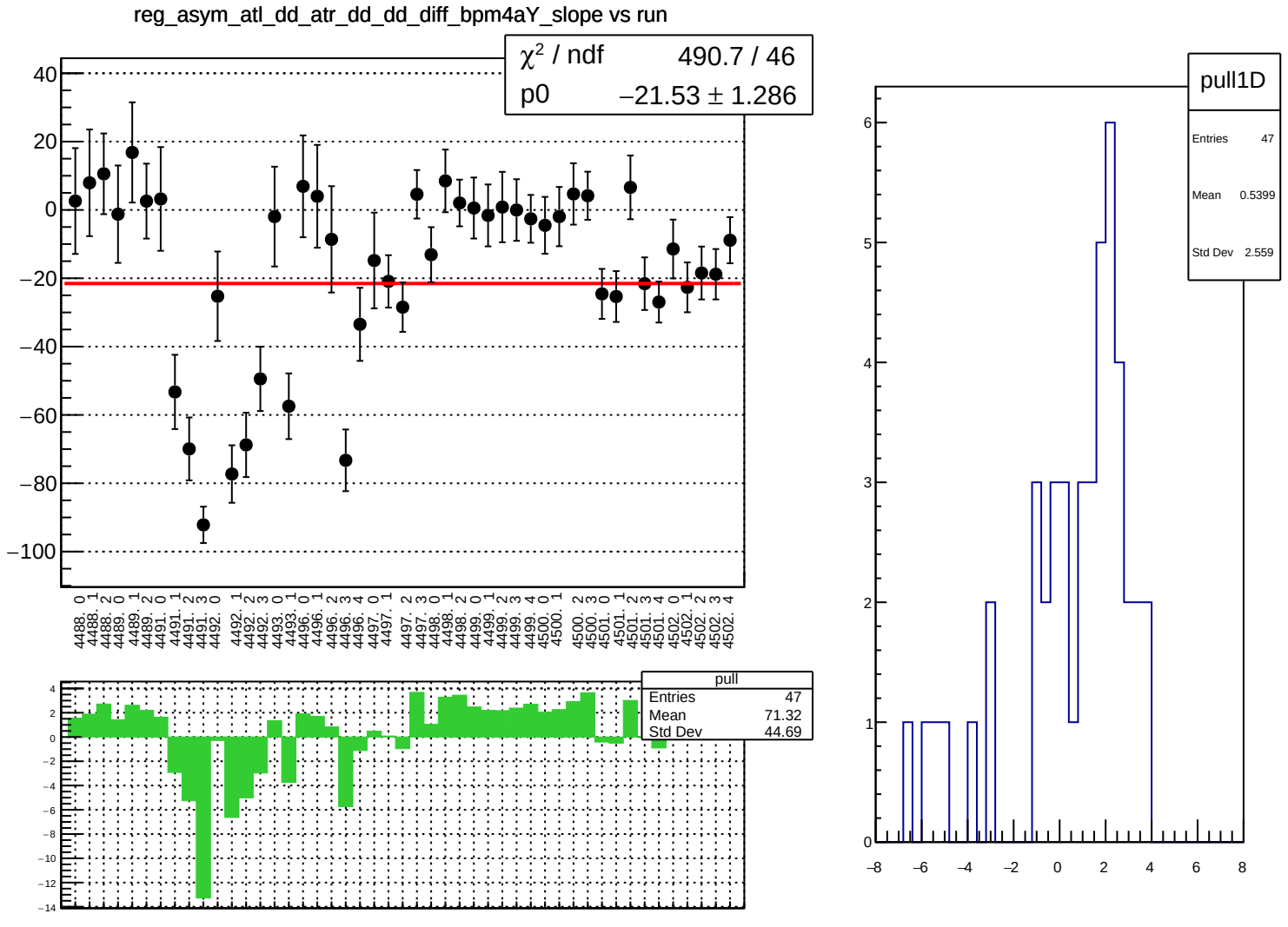

pull1D
Entries 47
Mean 0.1406
Std Dev 1.661

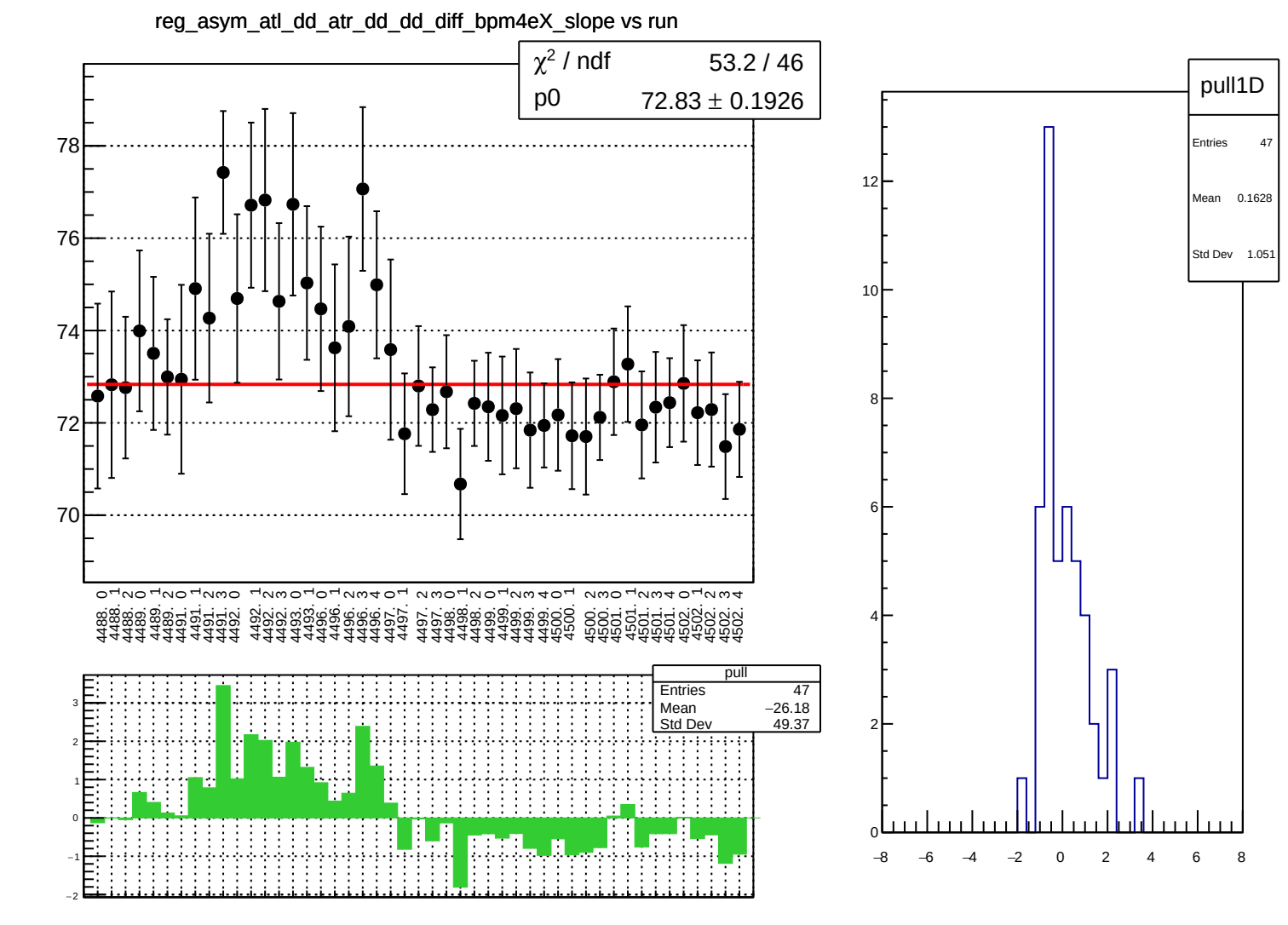

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 1054 / 46
p0 10.67 ± 0.8351
pull
Entries 47
Mean 25.43
Std Dev 15.75
pull1D
Entries 47
Mean −1.994
Std Dev 3.195

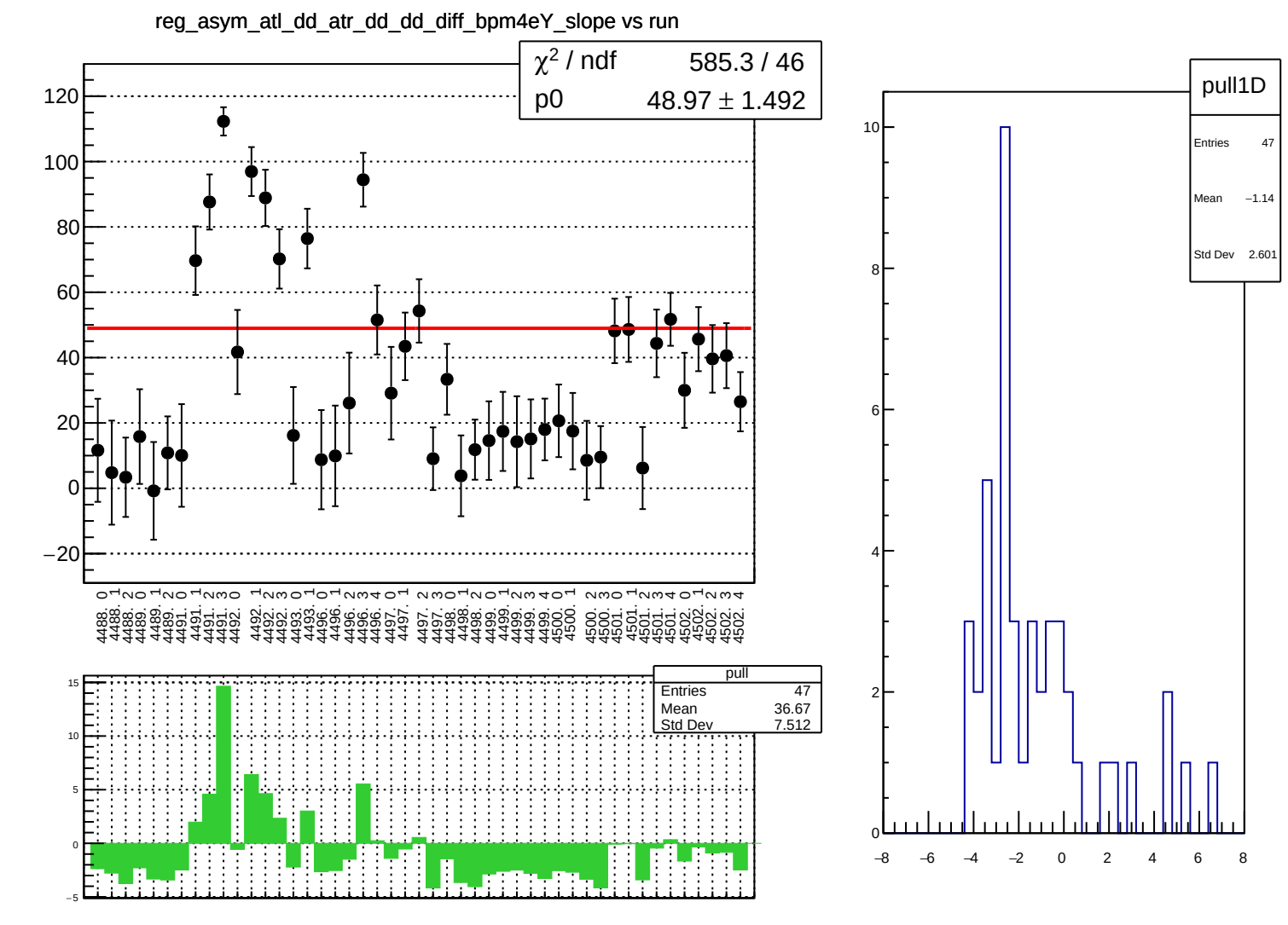

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 145.1 / 46
p0 93.32 ± 0.1739
96
94
92
90
88
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −448.6
Std Dev 469.5
2
1
0
−1
−2
−3
−4

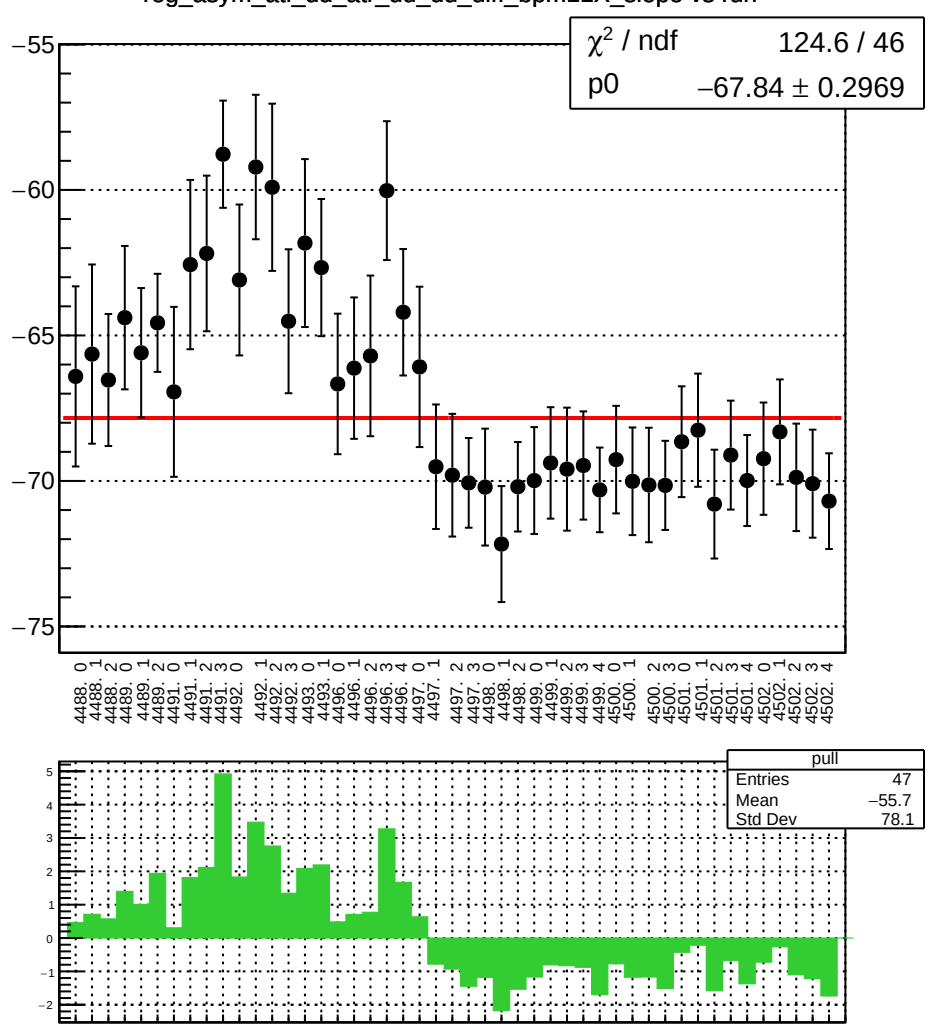

pull1D
Entries 47
Mean −0.04038
Std Dev 1.757
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

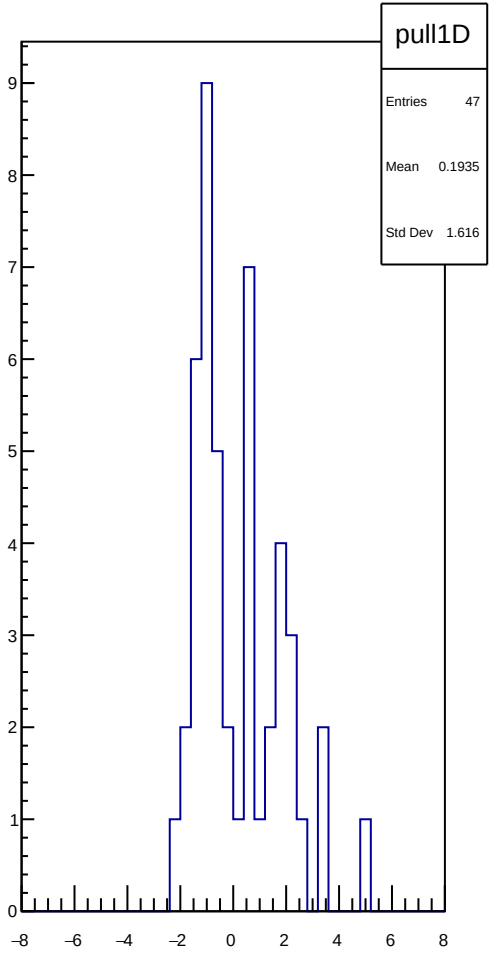

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.001 / 46
p0 −21.63 ± 1.146
pull
Entries 47
Mean −65.33
Std Dev 74.42
pull1D
Entries 47
Mean −0.009137
Std Dev 0.4375

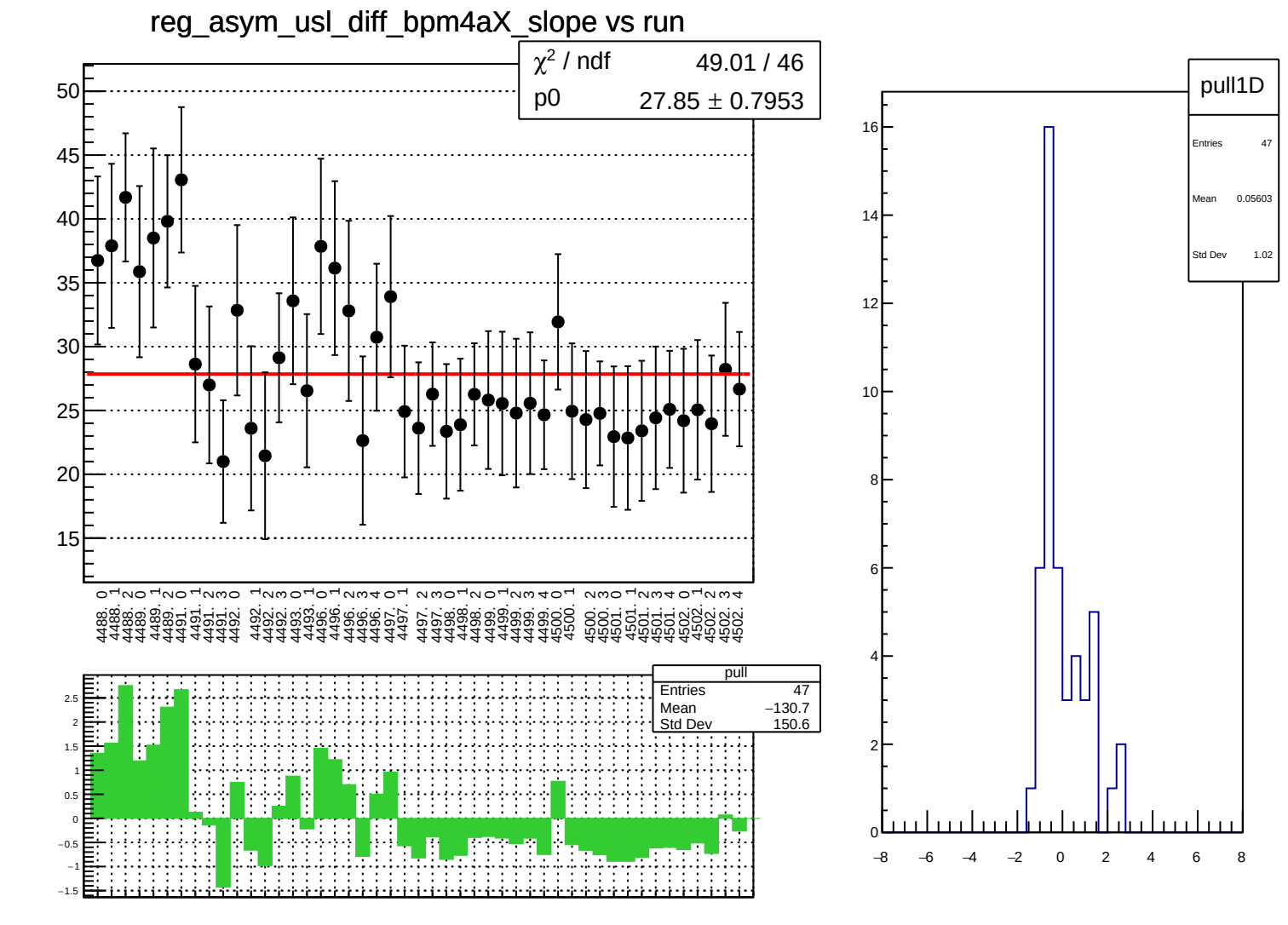

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 490.7 / 46
p0 −21.53 ± 1.286
pull
Entries 47
Mean 71.32
Std Dev 44.69
pull1D
Entries 47
Mean 0.5399
Std Dev 2.559

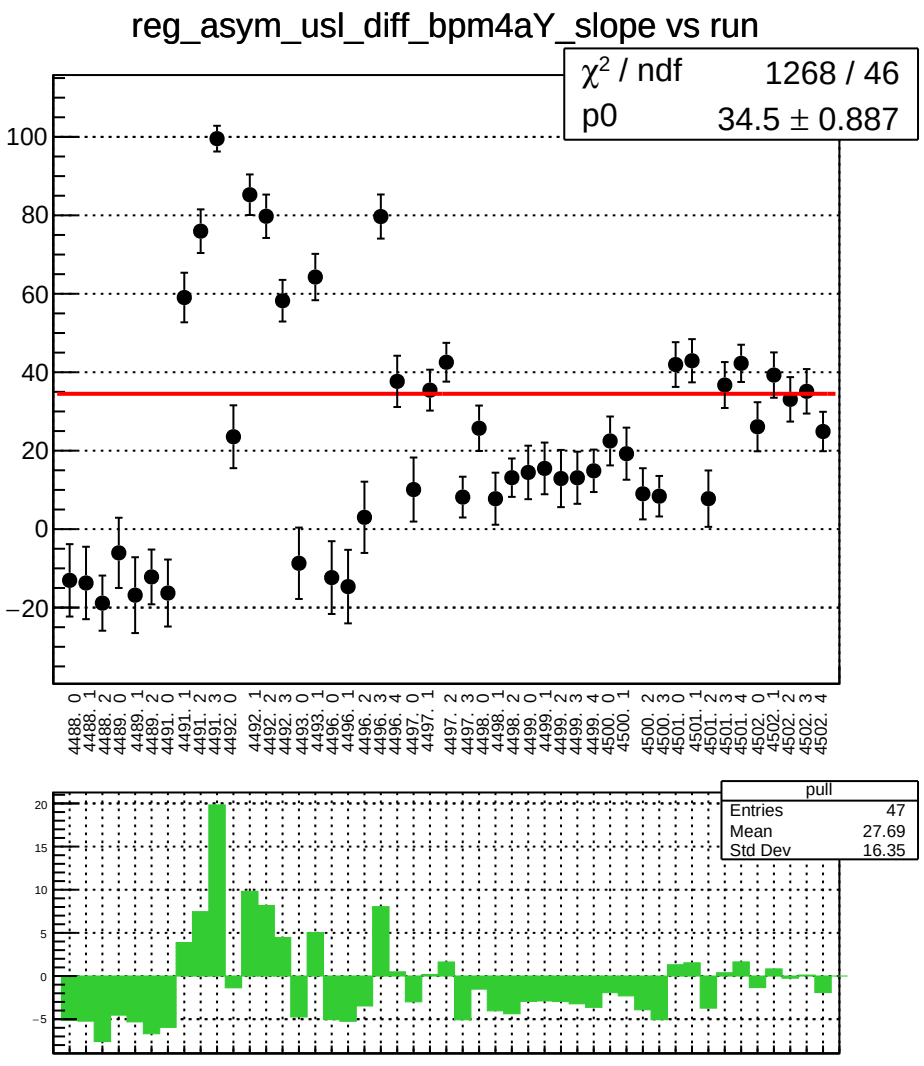

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.2 / 46
p0 72.83 ± 0.1926
78
76
74
72
70
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −26.18
Std Dev 49.37
3
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.1628
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

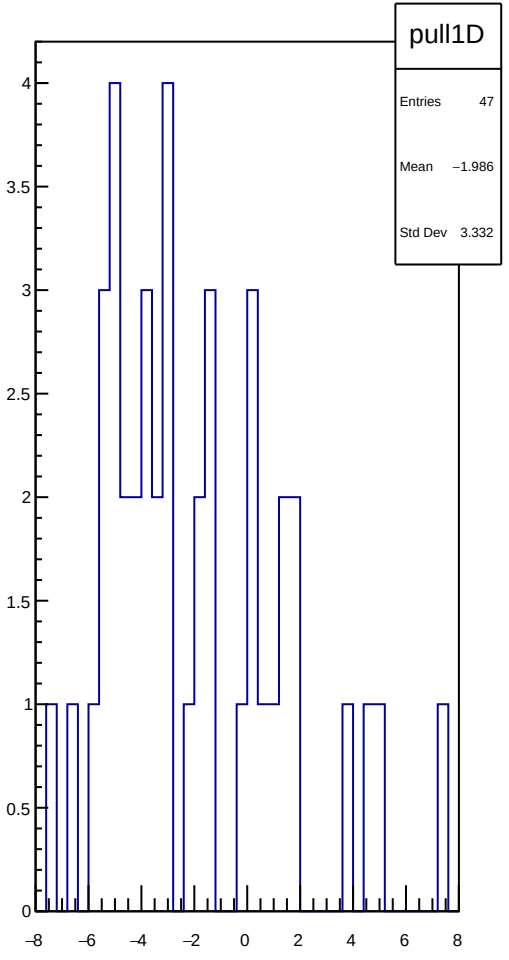

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 585.3 / 46
p0 48.97 ± 1.492
pull
Entries 47
Mean 36.67
Std Dev 7.512
pull1D
Entries 47
Mean −1.14
Std Dev 2.601

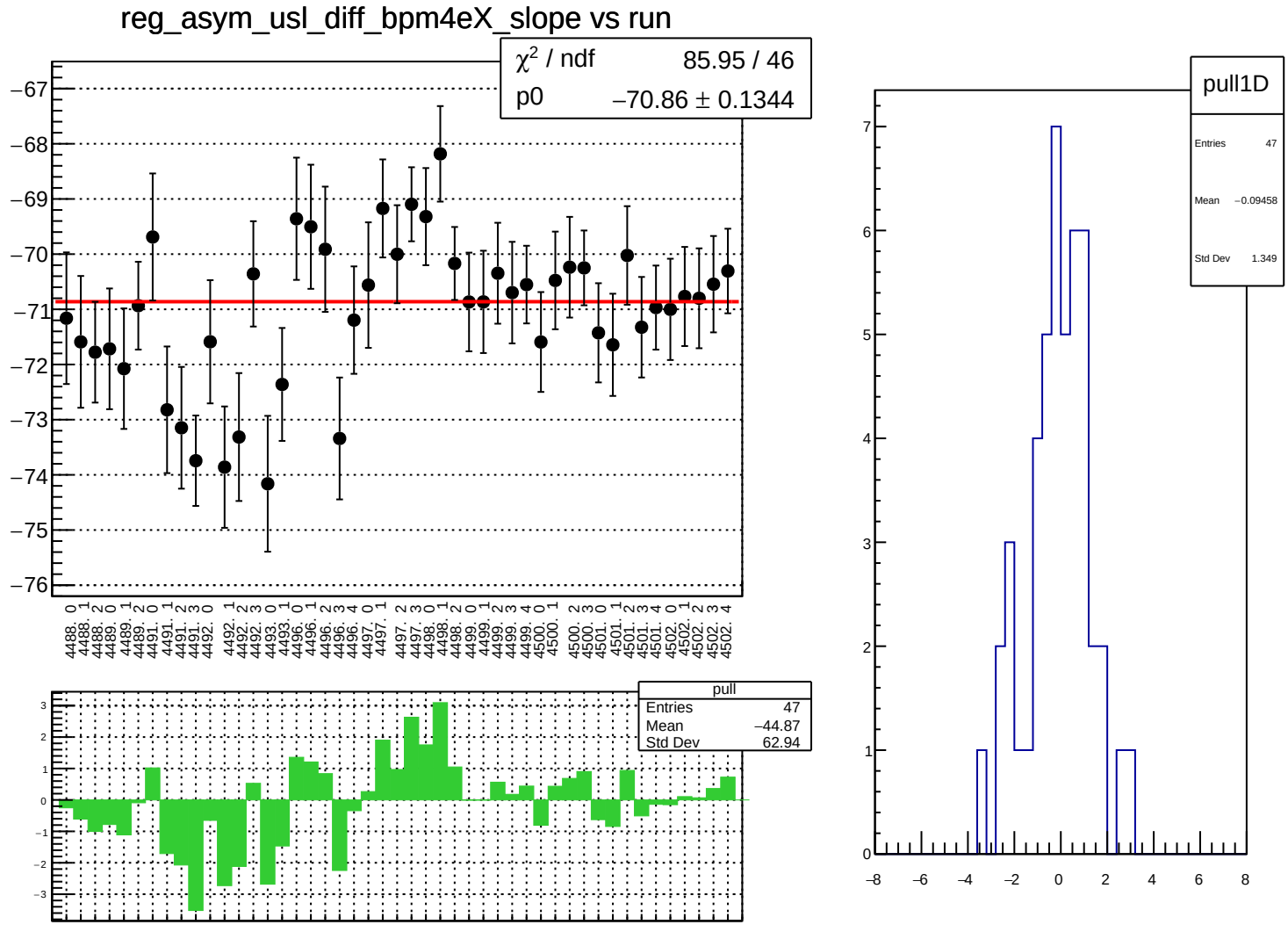

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 124.6 / 46
p0 −67.84 ± 0.2969
pull
Entries 47
Mean −55.7
Std Dev 78.1

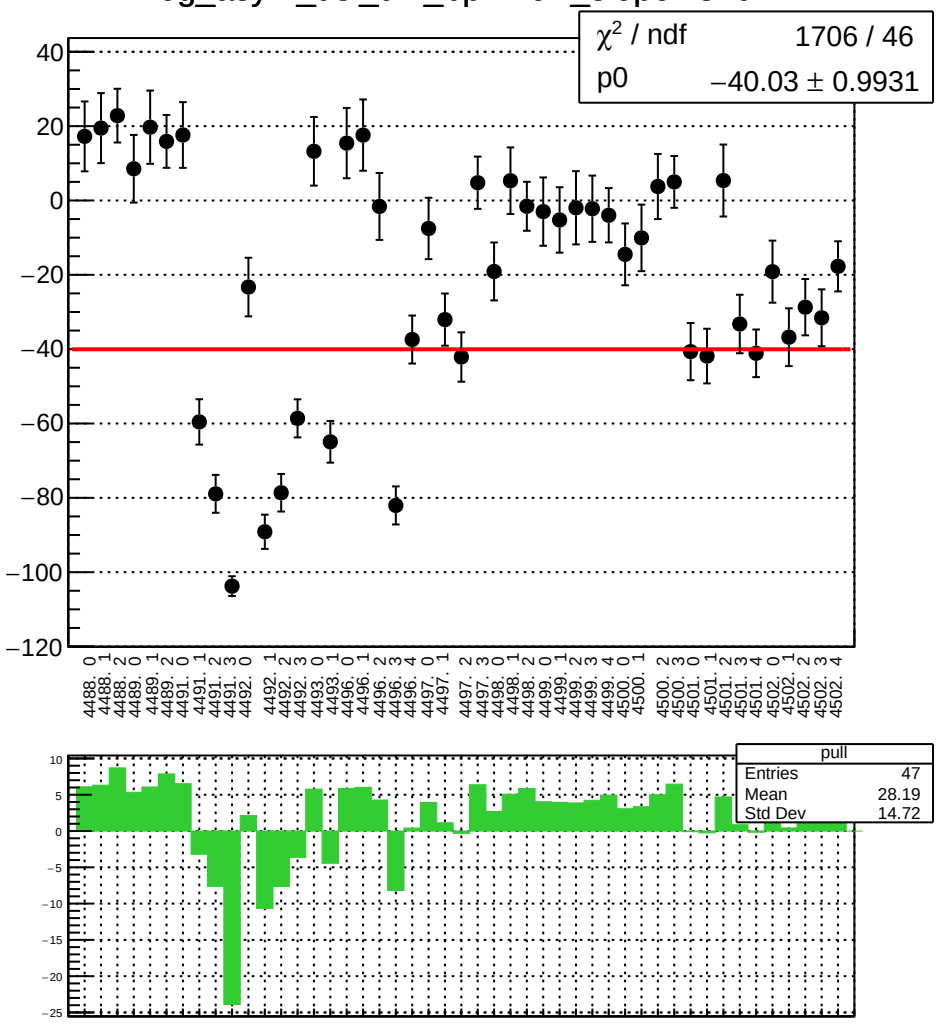

pull1D
Entries 47
Mean 0.1935
Std Dev 1.616

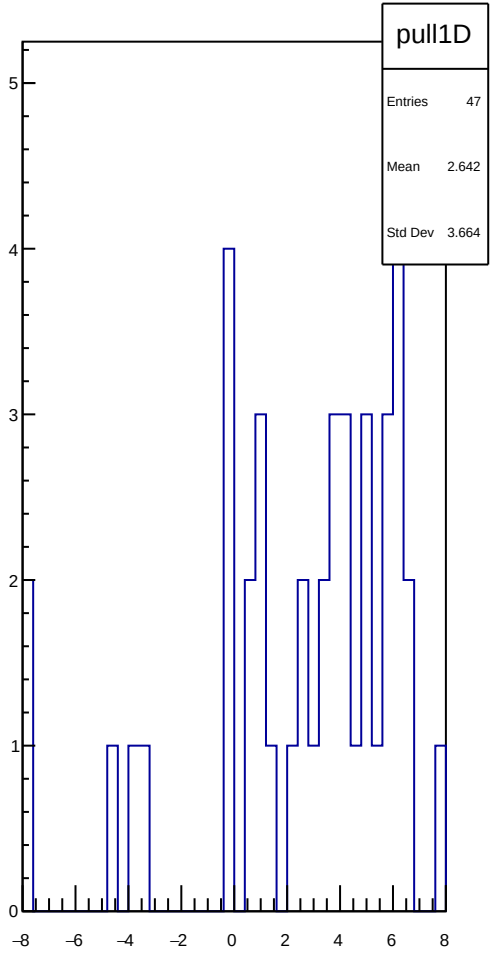

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 49.01 / 46
p0 27.85 ± 0.7953
pull
Entries 47
Mean −130.7
Std Dev 150.6
pull1D
Entries 47
Mean 0.05603
Std Dev 1.02

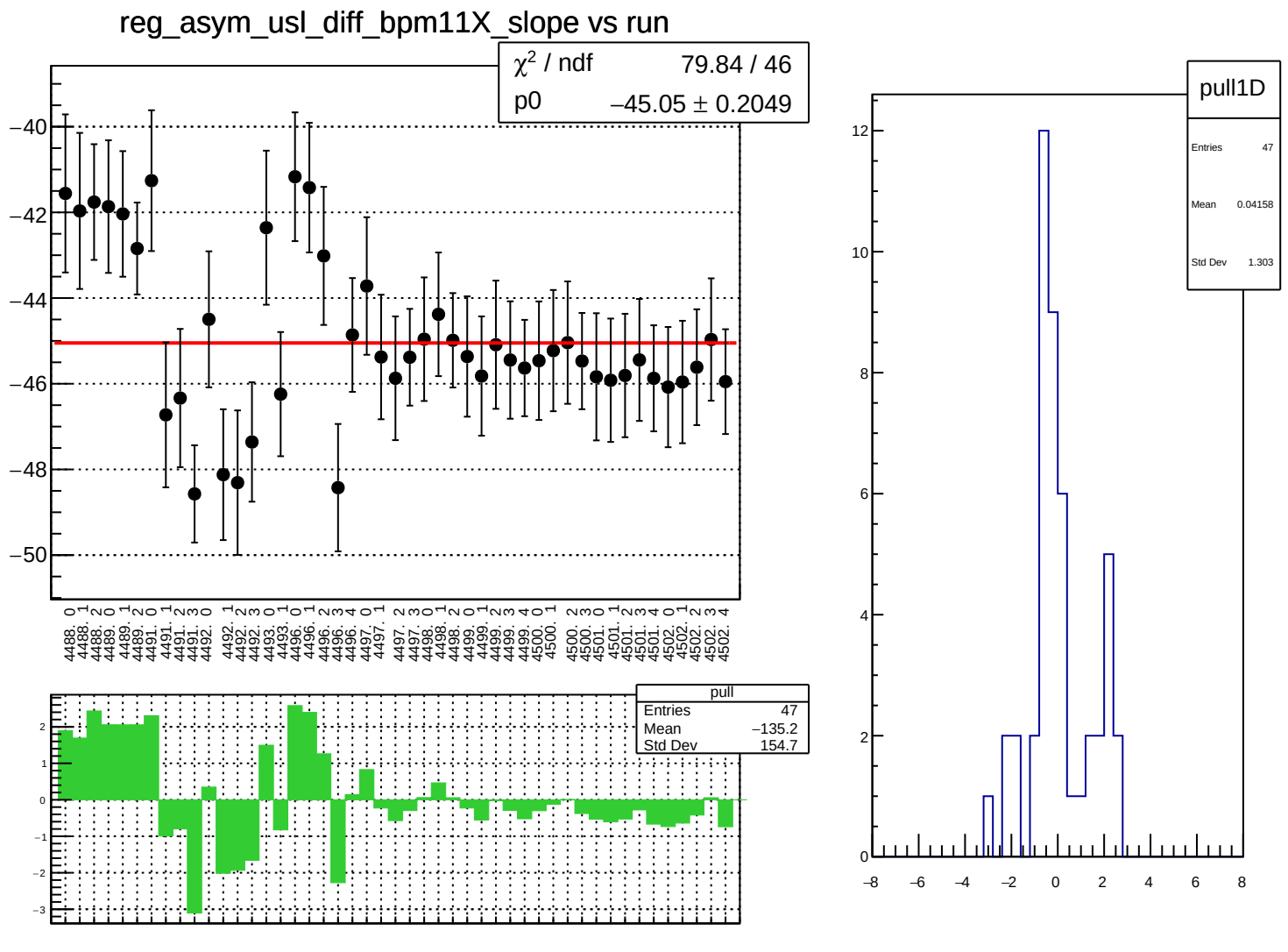

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 1268 / 46
p0 34.5 ± 0.887
pull
Entries 47
Mean 27.69
Std Dev 16.35

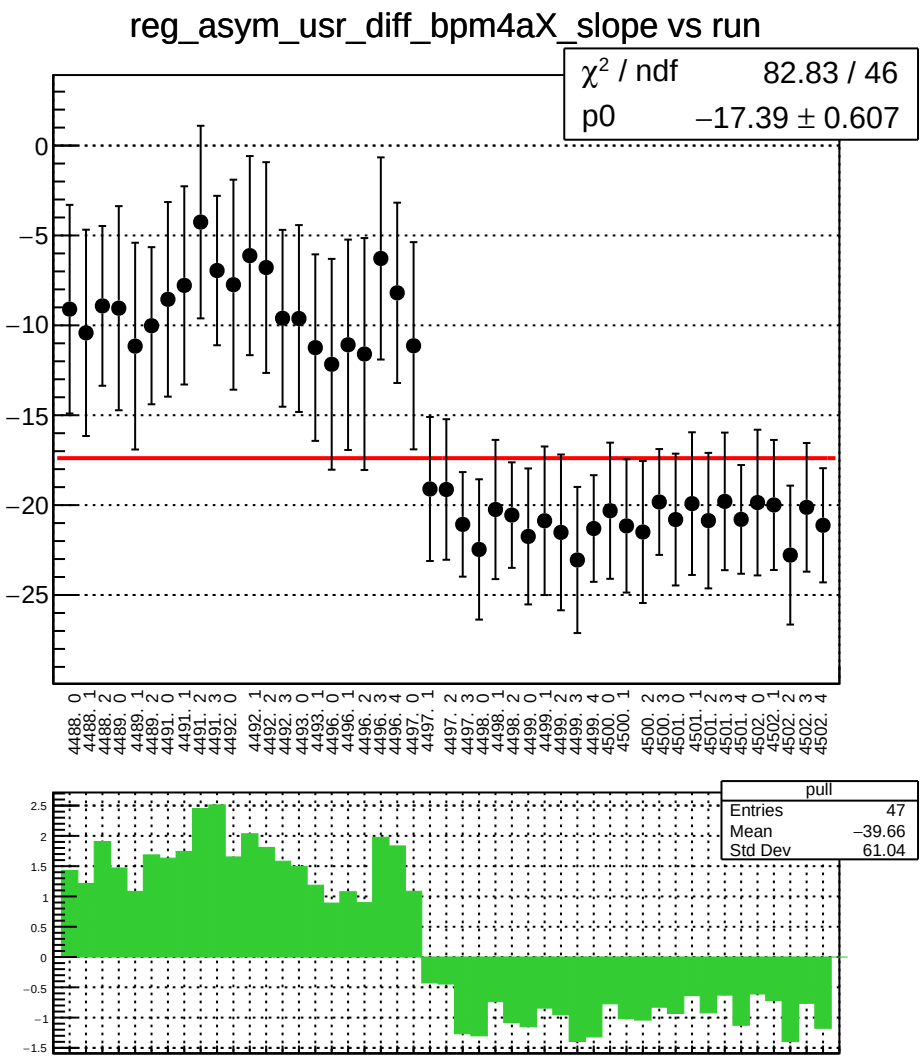

pull1D
Entries 47
Mean −1.986
Std Dev 3.332

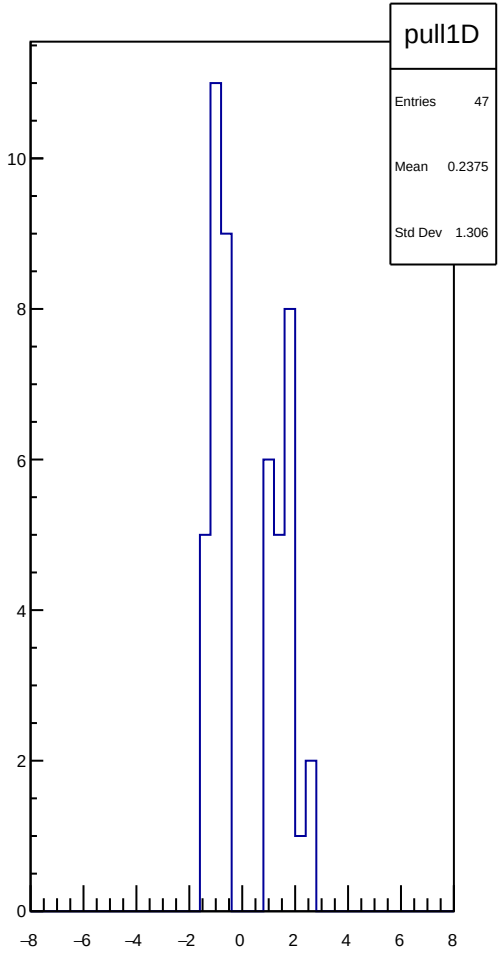

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 85.95 / 46
p0 −70.86 ± 0.1344
pull
Entries 47
Mean −44.87
Std Dev 62.94
pull1D
Entries 47
Mean −0.09458
Std Dev 1.349

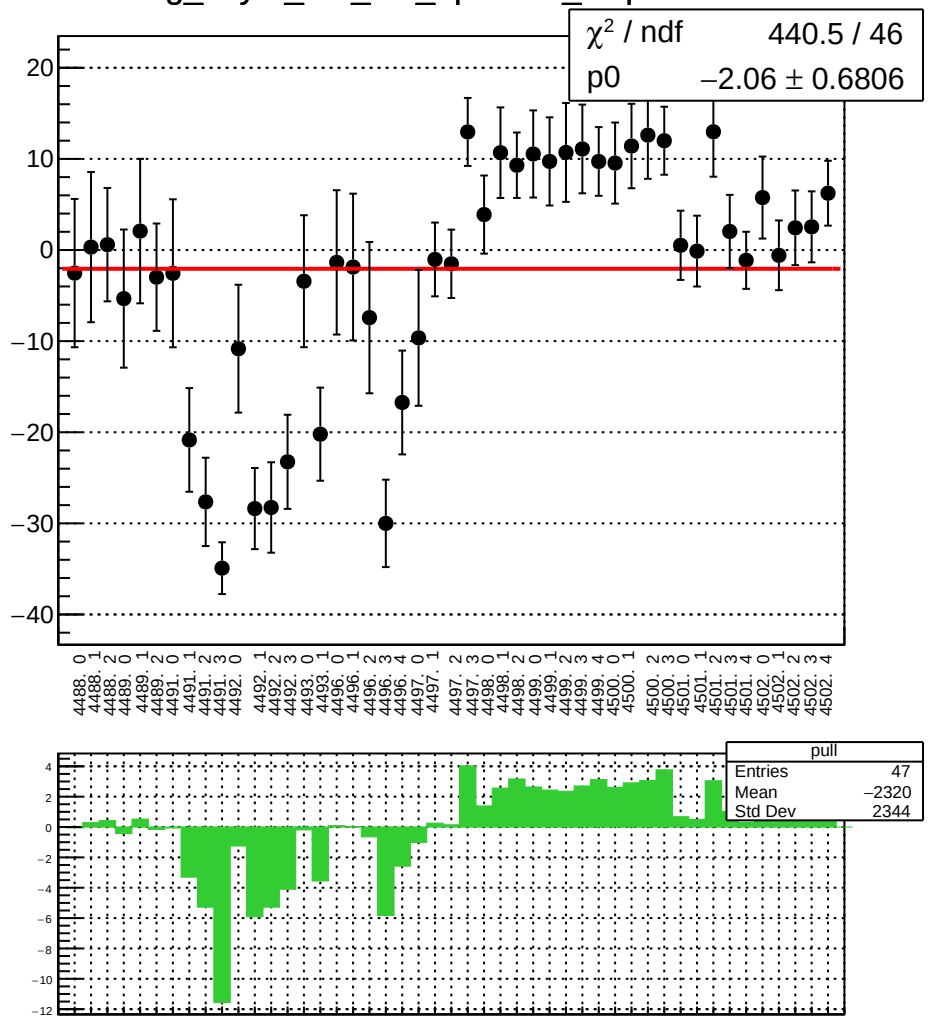

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 1706 / 46
p0 −40.03 ± 0.9931
pull
Entries 47
Mean 28.19
Std Dev 14.72

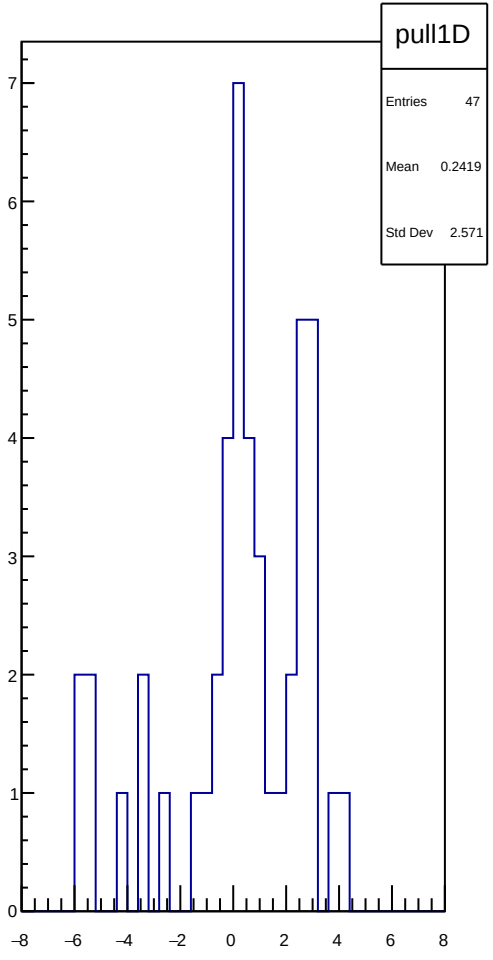

pull1D
Entries 47
Mean 2.642
Std Dev 3.664

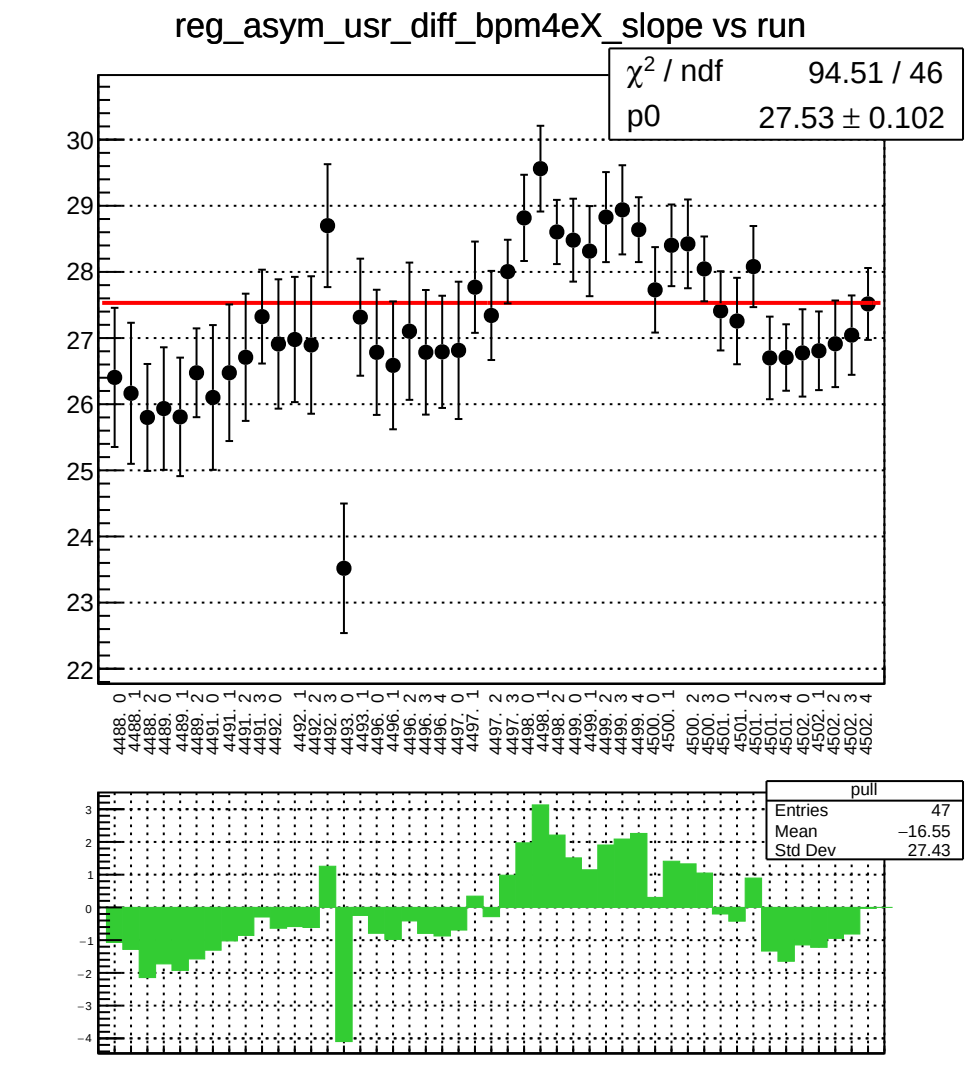

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 79.84 / 46
p0 −45.05 ± 0.2049
−40
−42
−44
−46
−48
−50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −135.2
Std Dev 154.7
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean 0.04158
Std Dev 1.303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

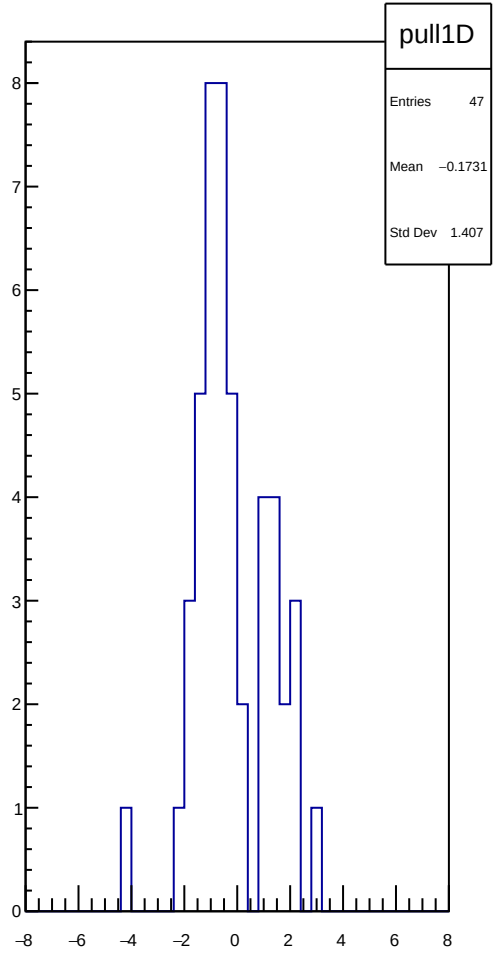

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 82.83 / 46
p0 −17.39 ± 0.607
pull
Entries 47
Mean −39.66
Std Dev 61.04

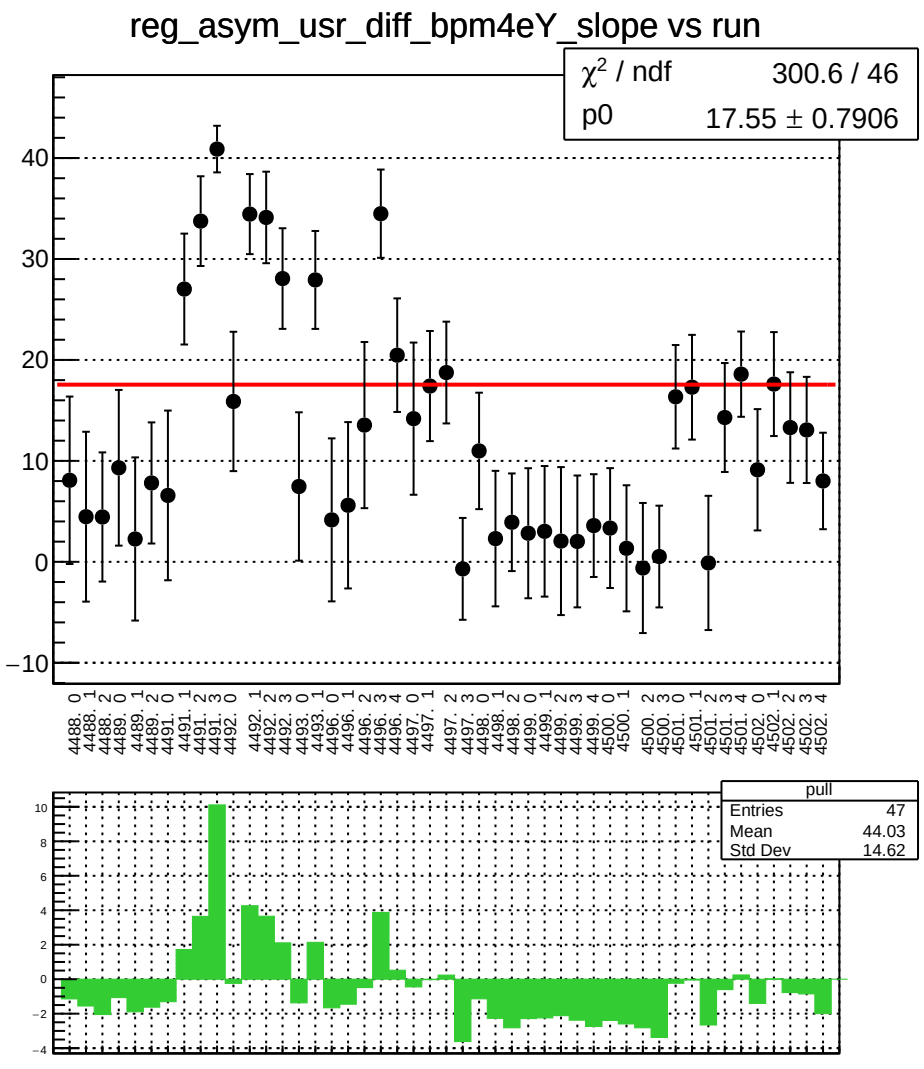

pull1D
Entries 47
Mean 0.2375
Std Dev 1.306

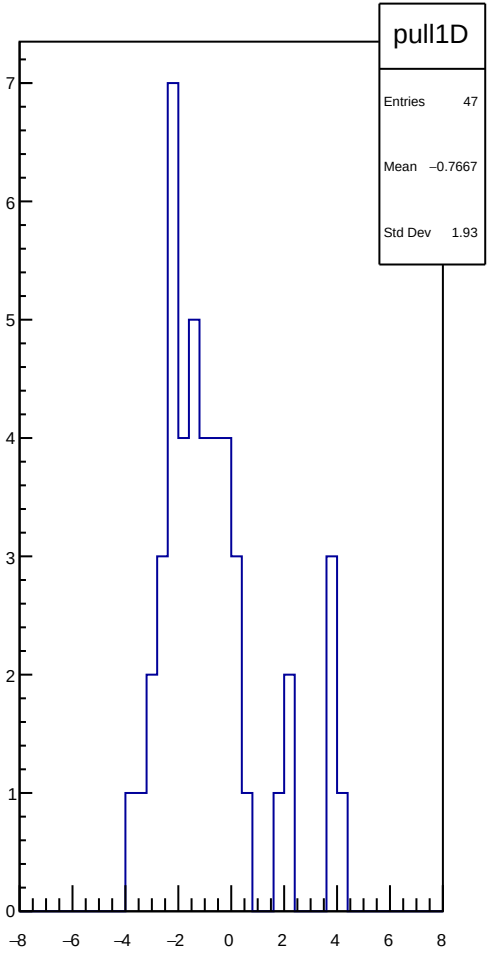

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 440.5 / 46
p0 −2.06 ± 0.6806
pull
Entries 47
Mean −2320
Std Dev 2344

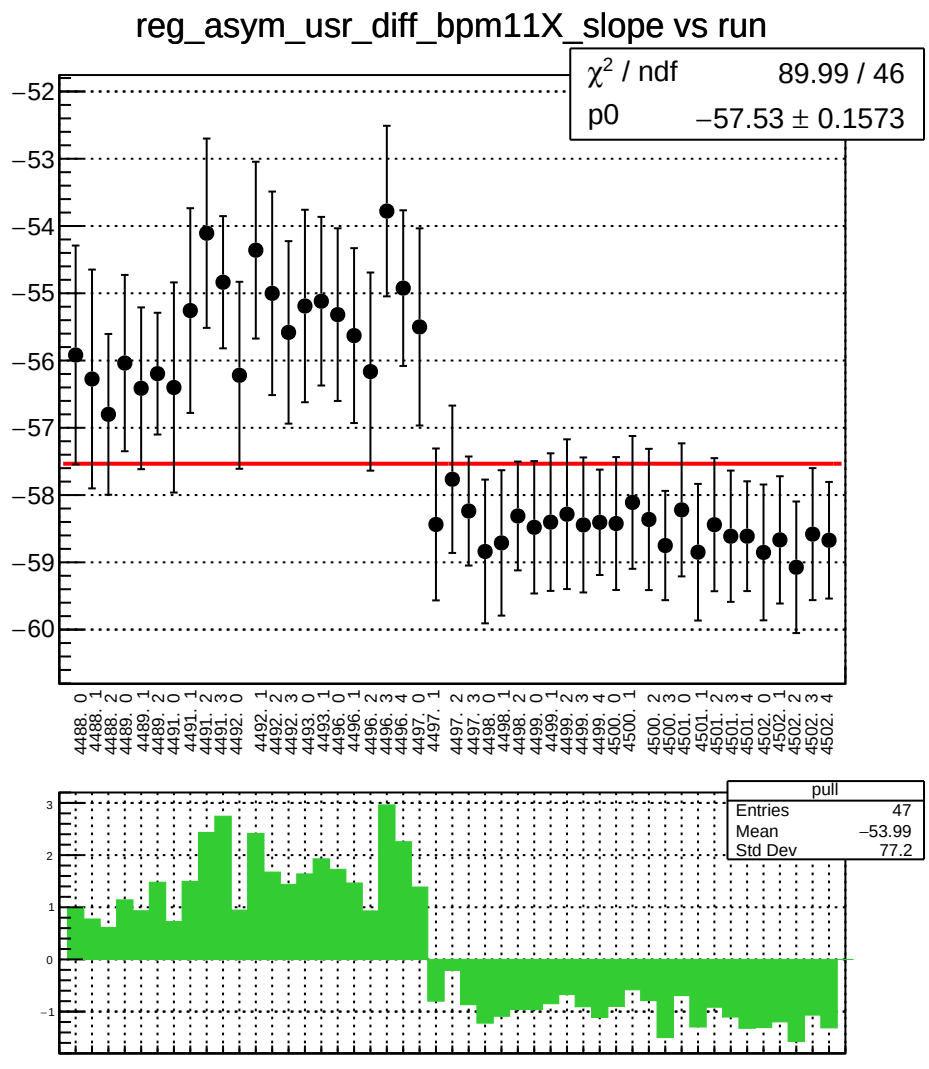

pull1D
Entries 47
Mean 0.2419
Std Dev 2.571

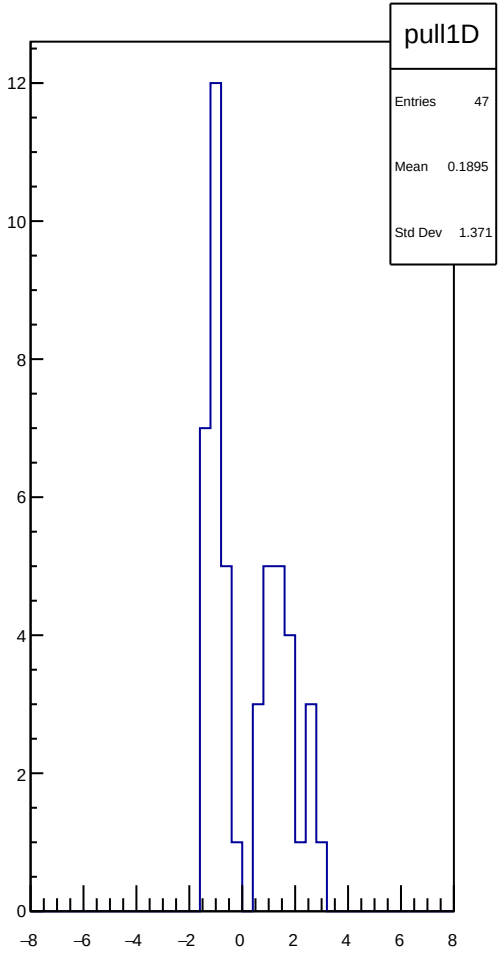

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 94.51 / 46
p0 27.53 ± 0.102
pull
Entries 47
Mean −16.55
Std Dev 27.43

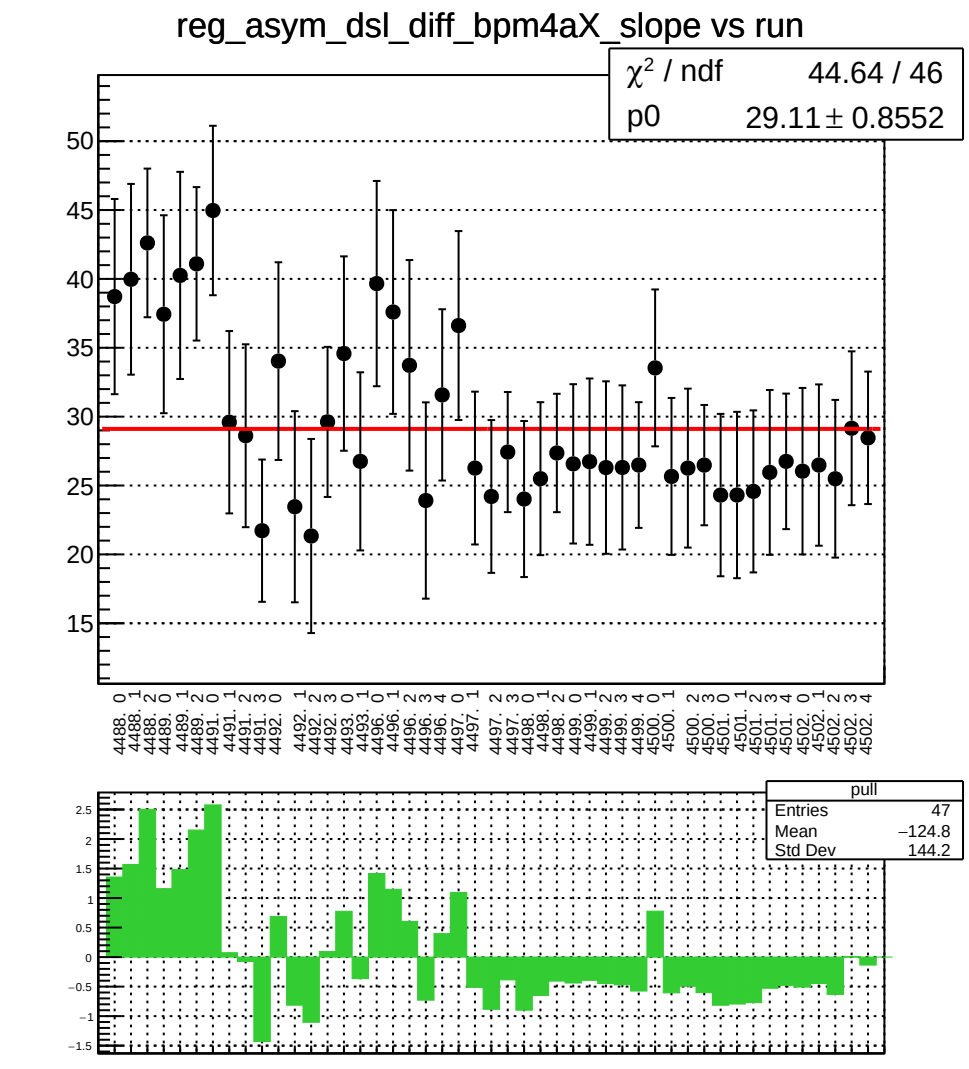

pull1D
Entries 47
Mean −0.1731
Std Dev 1.407

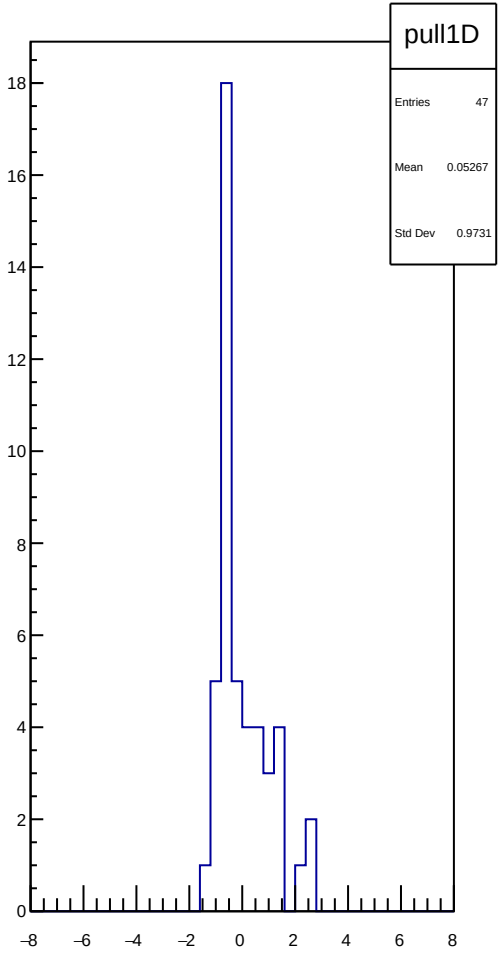

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 300.6 / 46
p0 17.55 ± 0.7906
pull
Entries 47
Mean 44.03
Std Dev 14.62

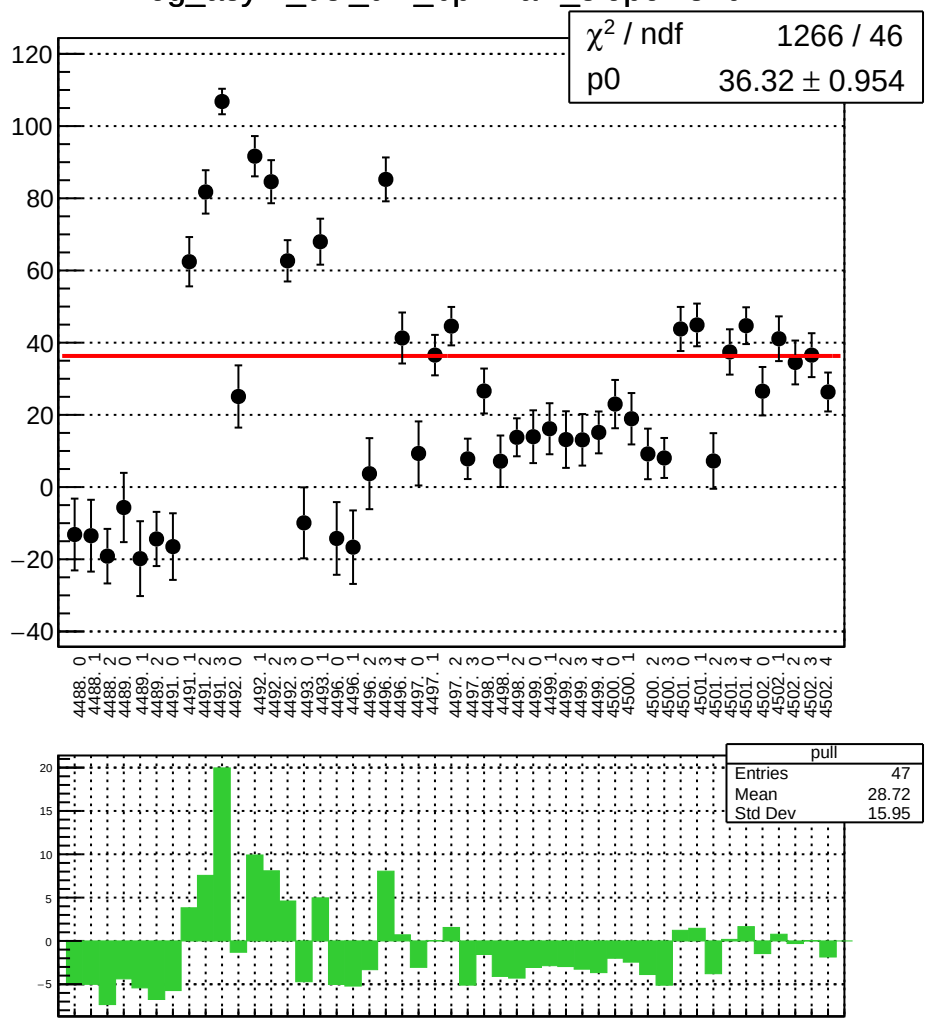

pull1D
Entries 47
Mean −0.7667
Std Dev 1.93

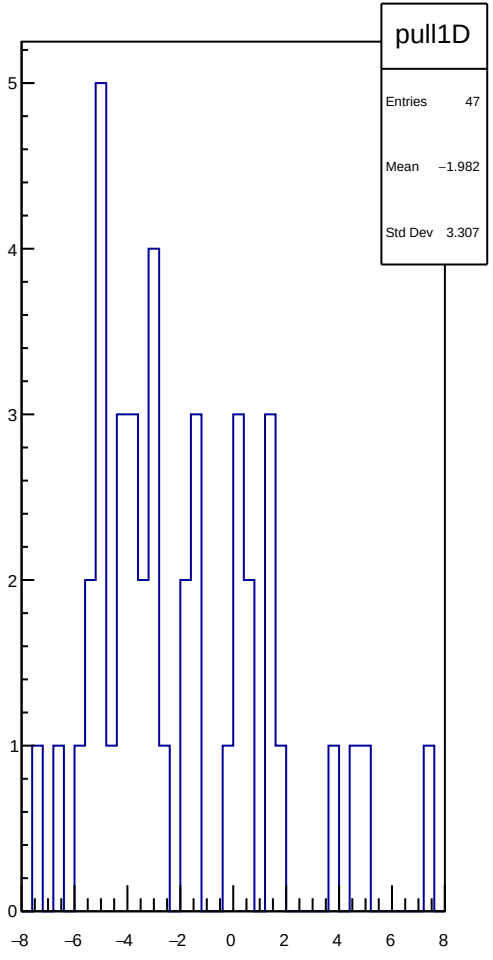

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 89.99 / 46
p0 −57.53 ± 0.1573
pull
Entries 47
Mean −53.99
Std Dev 77.2

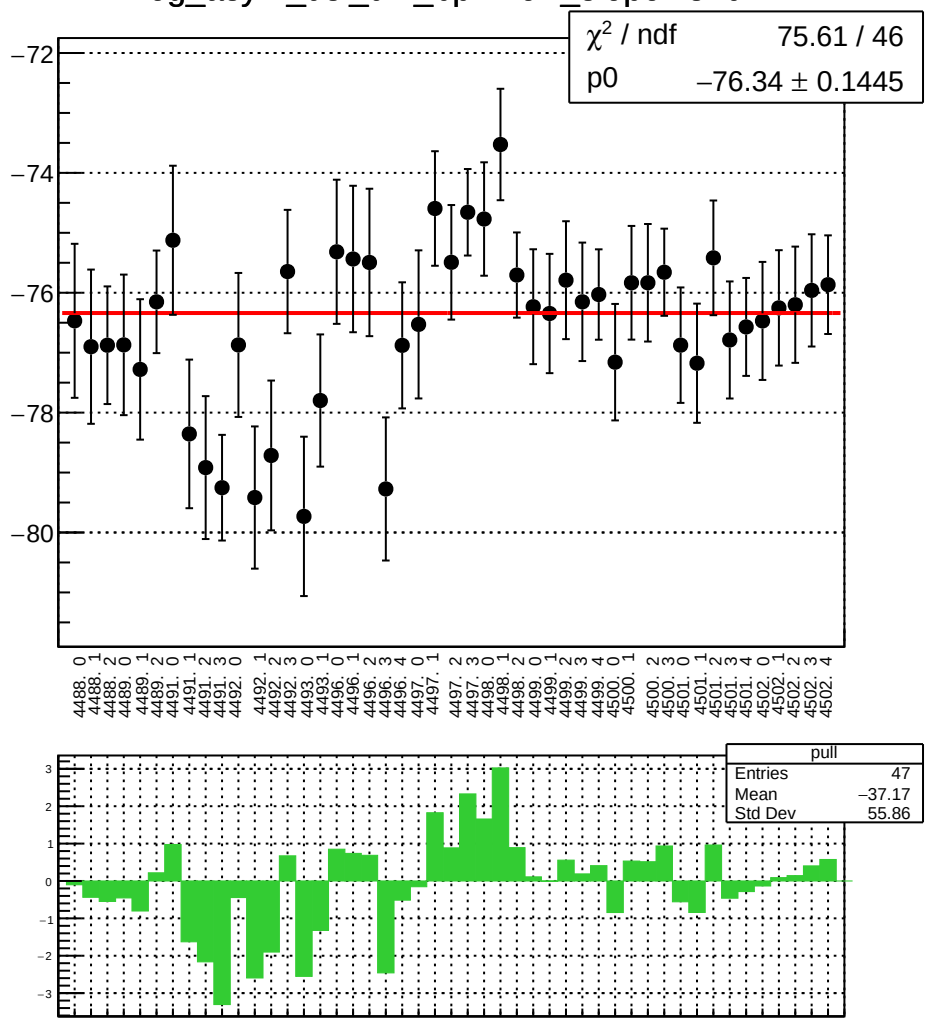

pull1D
Entries 47
Mean 0.1895
Std Dev 1.371

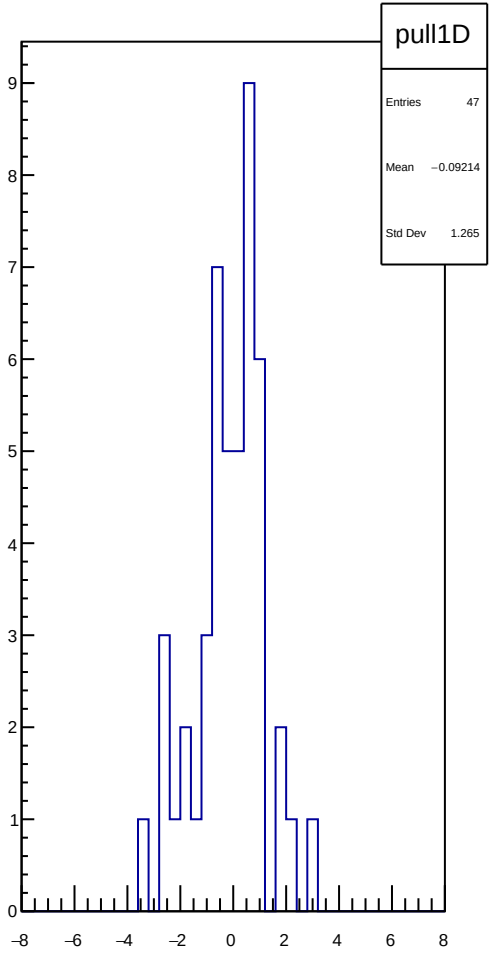

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 44.64 / 46
p0 29.11 ± 0.8552
pull
Entries 47
Mean −124.8
Std Dev 144.2

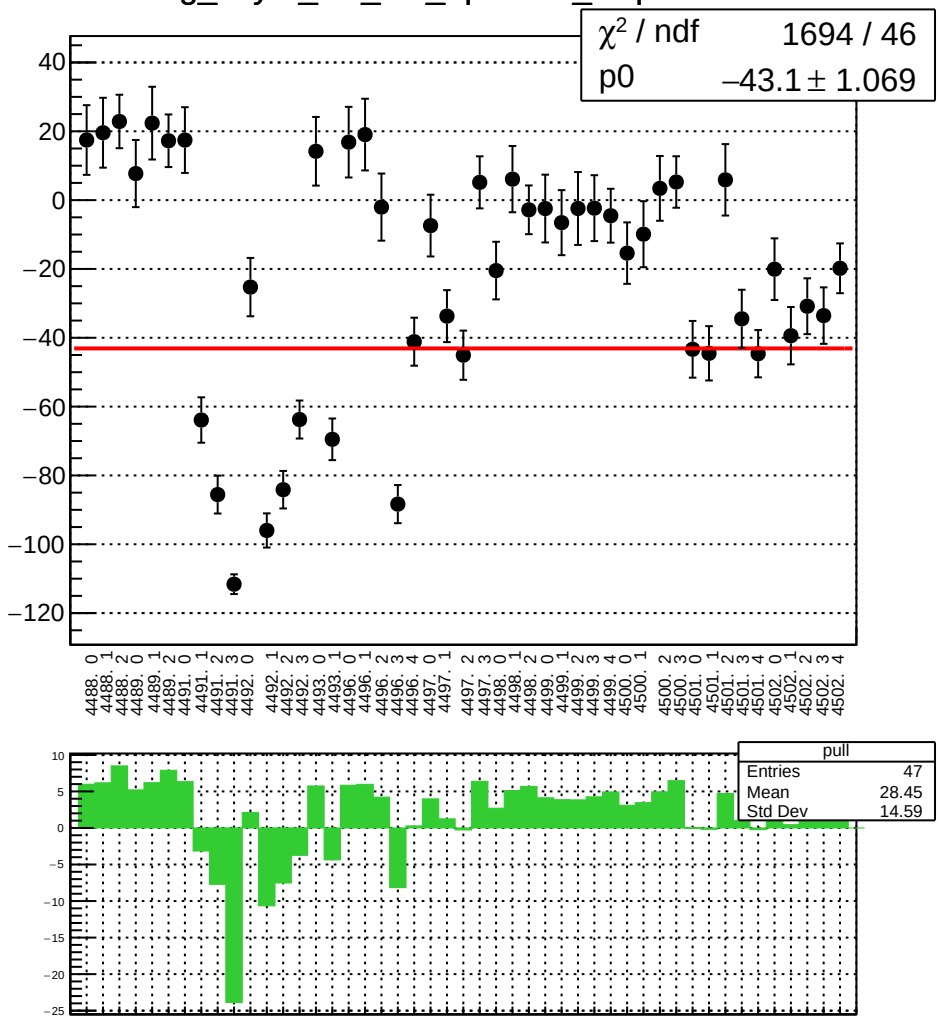

pull1D
Entries 47
Mean 0.05267
Std Dev 0.9731

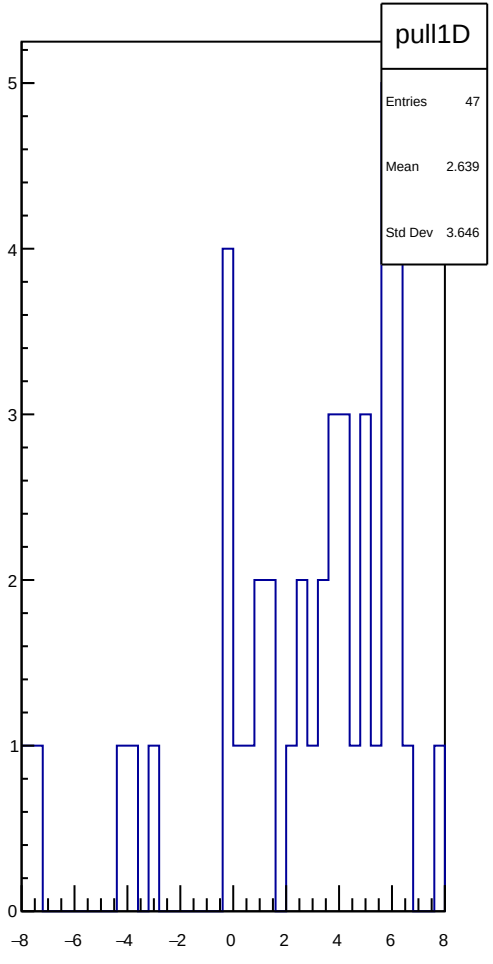

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 1266 / 46
p0 36.32 ± 0.954
pull
Entries 47
Mean 28.72
Std Dev 15.95

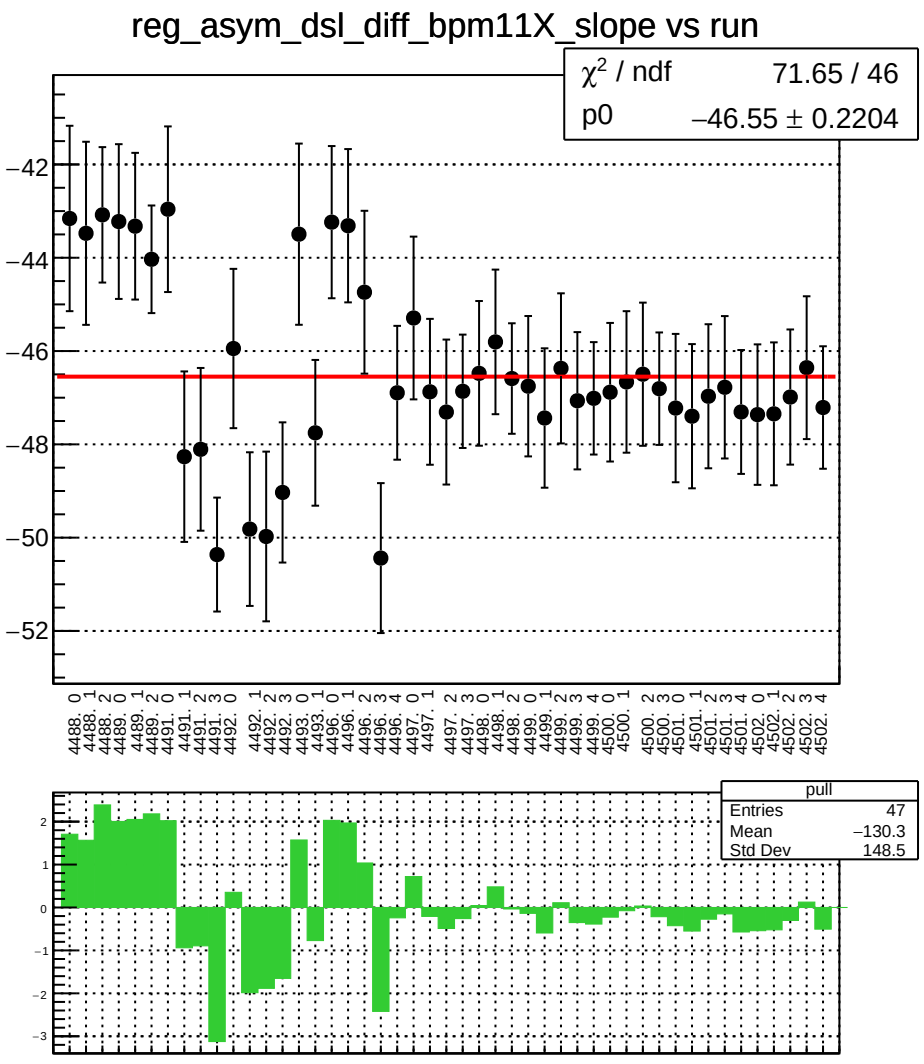

pull1D
Entries 47
Mean −1.982
Std Dev 3.307

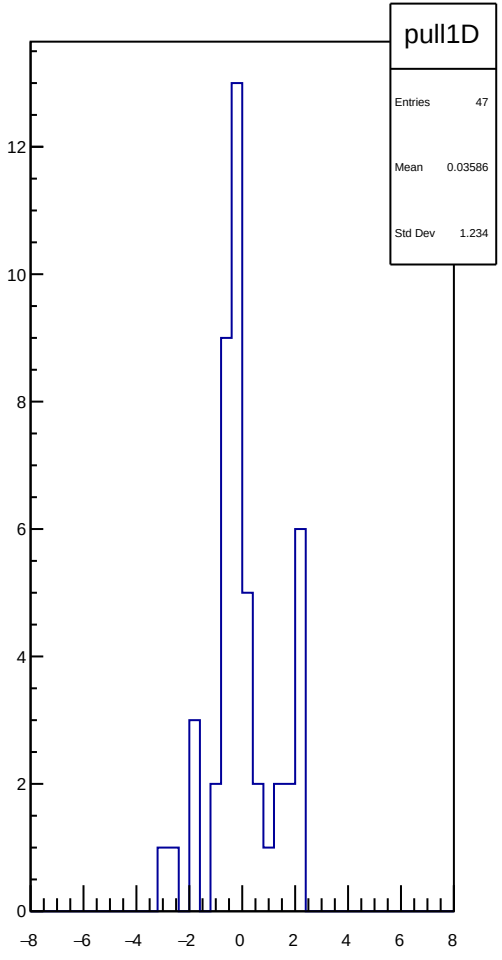

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 75.61 / 46
p0 −76.34 ± 0.1445
pull
Entries 47
Mean −37.17
Std Dev 55.86

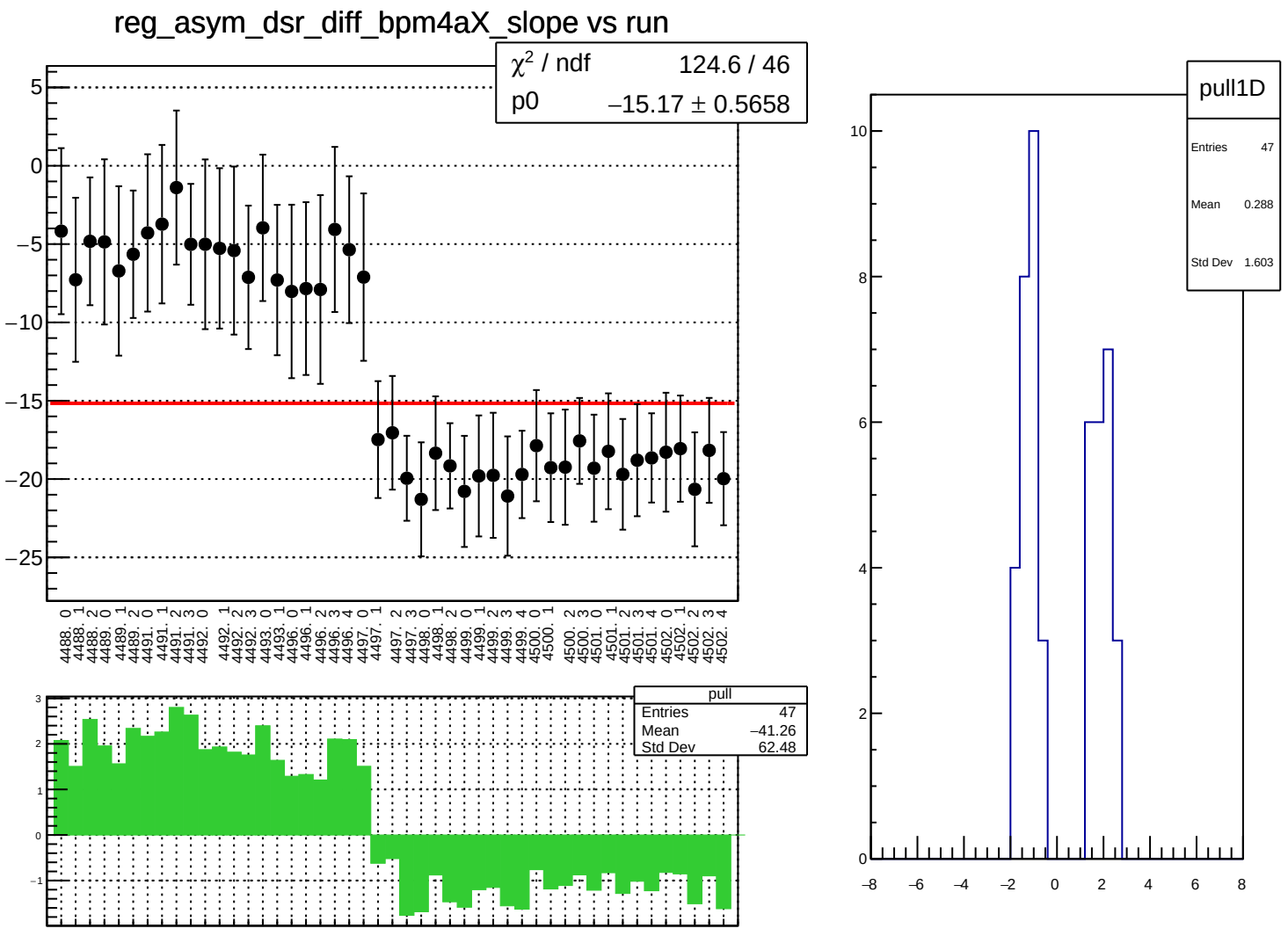

pull1D
Entries 47
Mean −0.09214
Std Dev 1.265

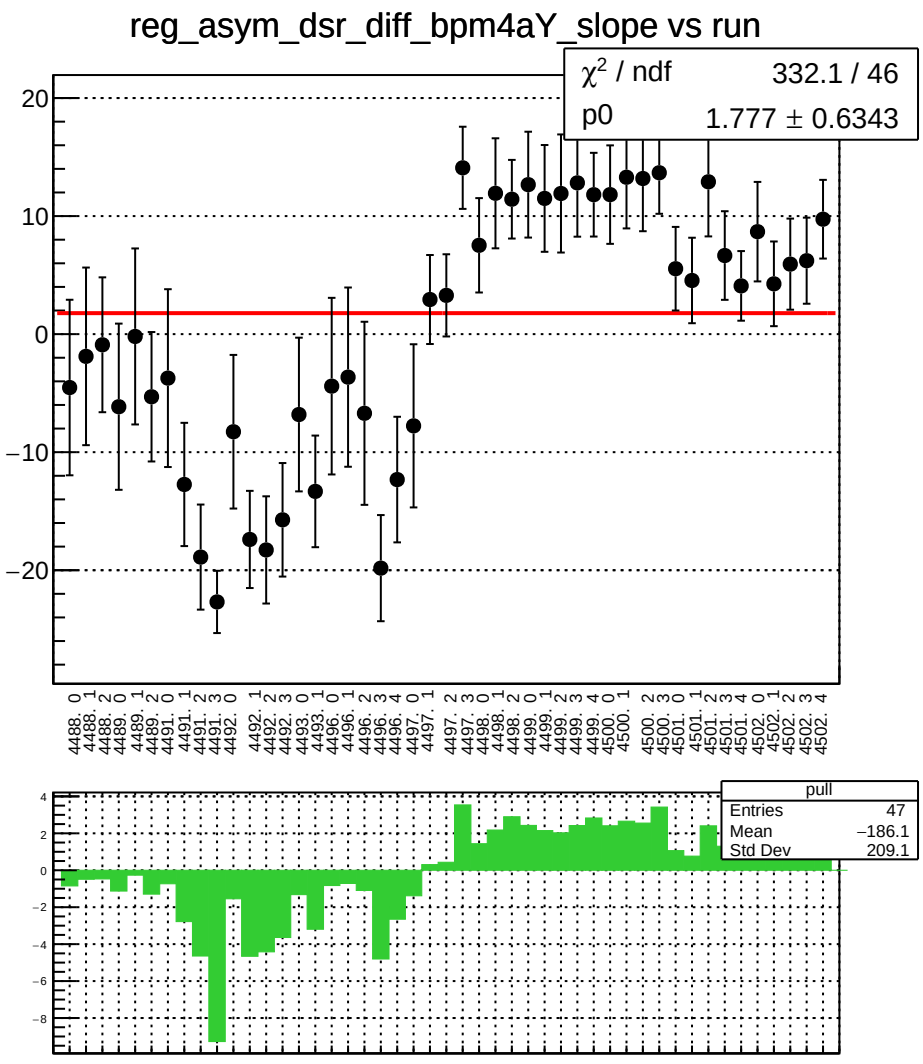

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 1694 / 46
p0 −43.1 ± 1.069
pull
Entries 47
Mean 28.45
Std Dev 14.59

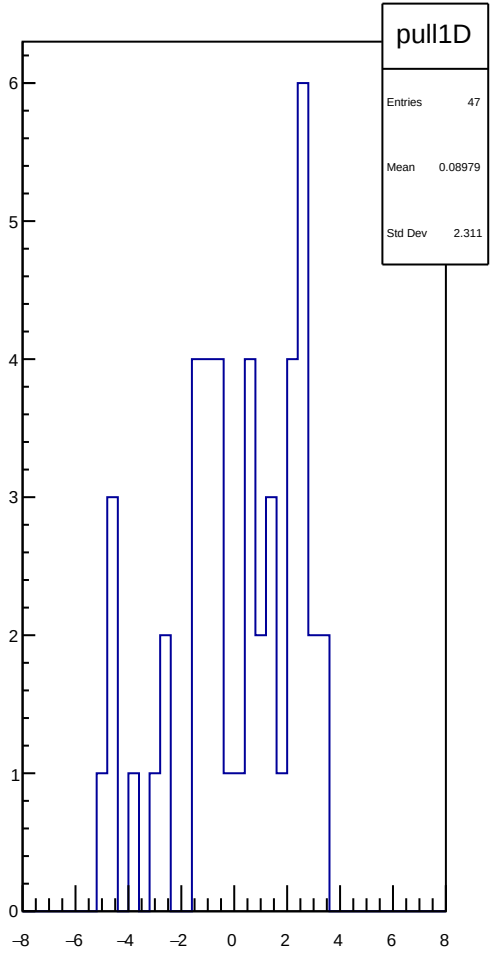

pull1D
Entries 47
Mean 2.639
Std Dev 3.646

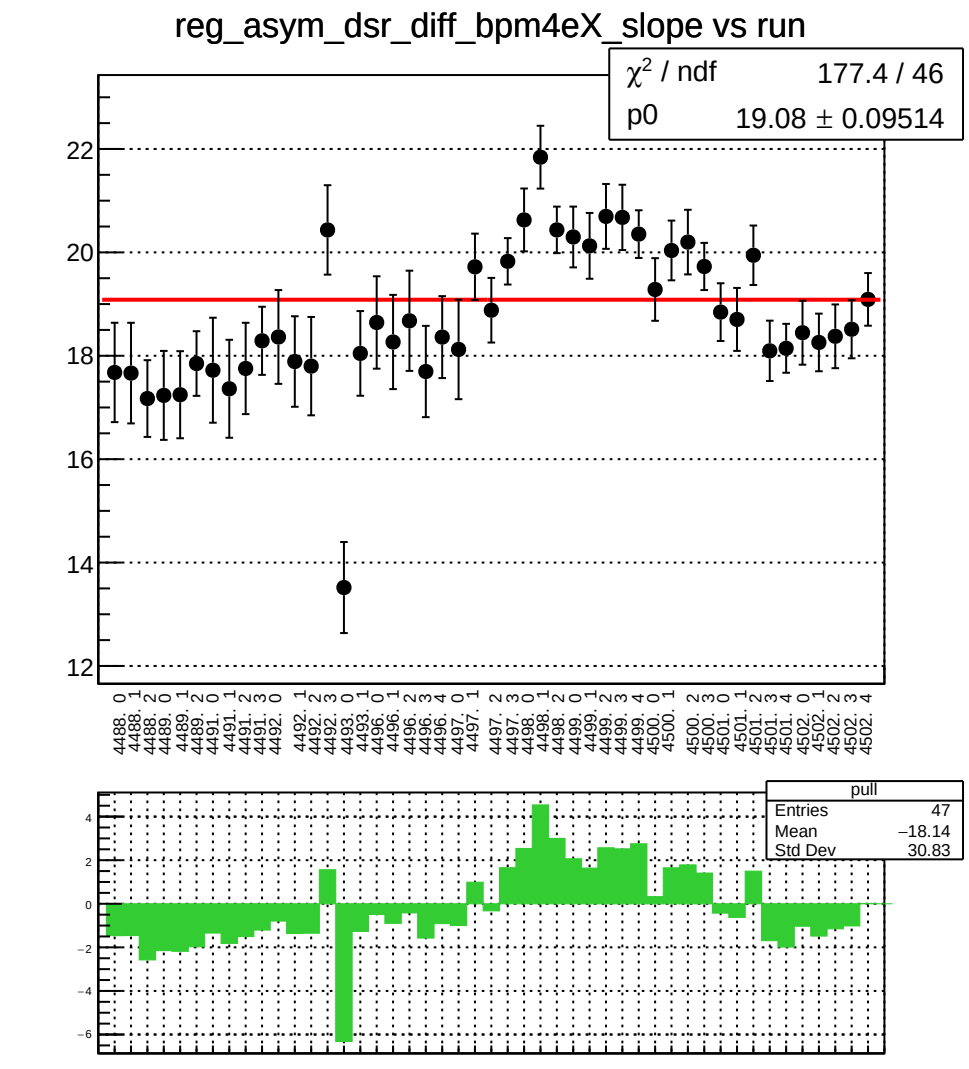

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 71.65 / 46
p0 −46.55 ± 0.2204
pull
Entries 47
Mean −130.3
Std Dev 148.5

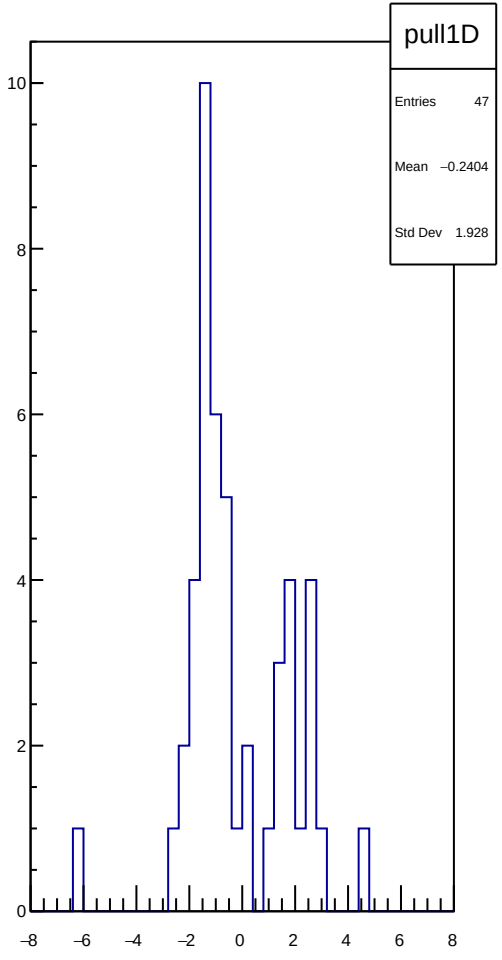

pull1D
Entries 47
Mean 0.03586
Std Dev 1.234

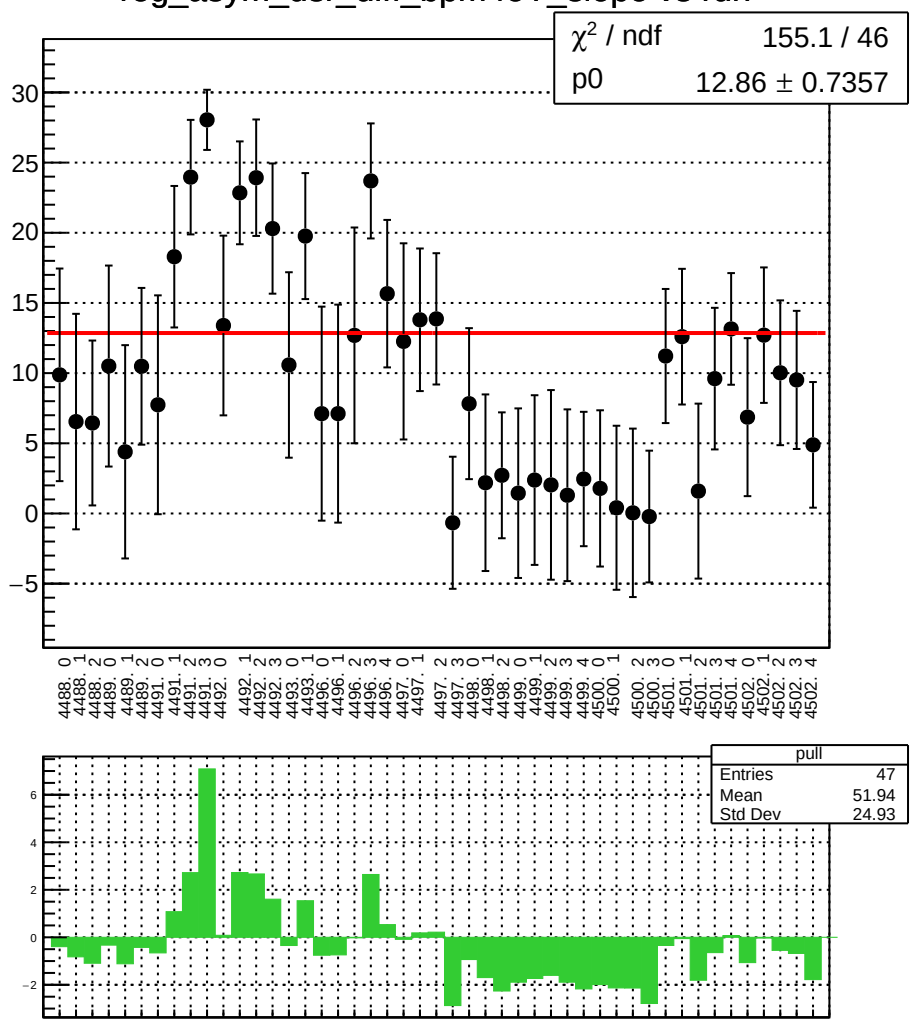

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 124.6 / 46
p0 −15.17 ± 0.5658
pull
Entries 47
Mean −41.26
Std Dev 62.48
pull1D
Entries 47
Mean 0.288
Std Dev 1.603

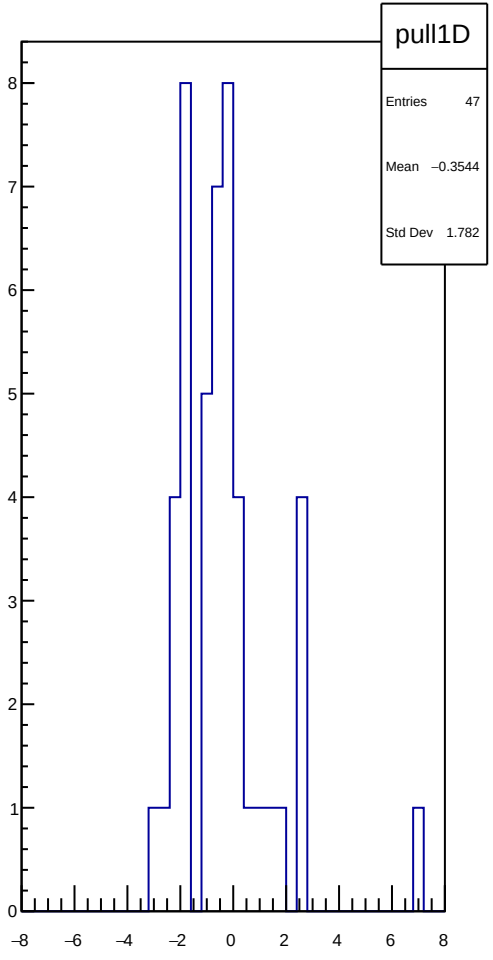

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 332.1 / 46
p0 1.777 ± 0.6343
pull
Entries 47
Mean −186.1
Std Dev 209.1

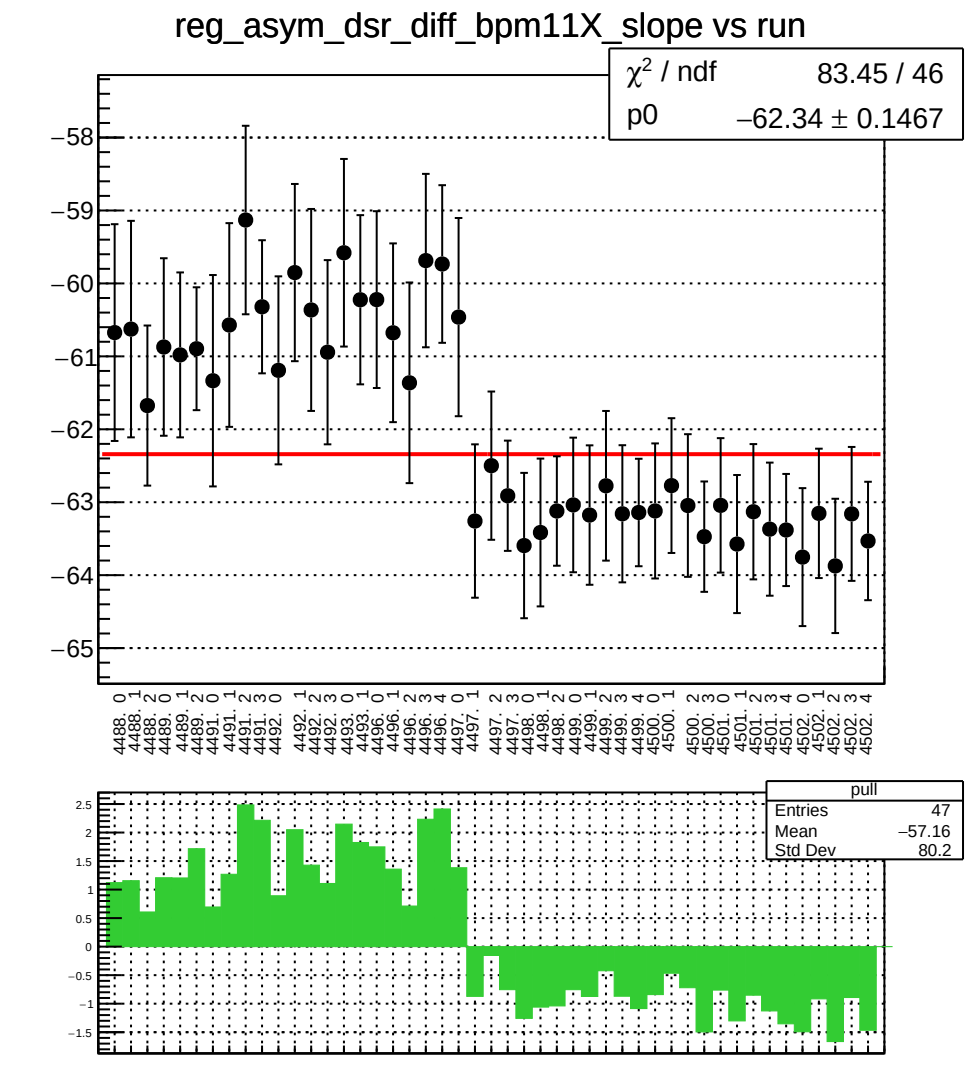

pull1D
Entries 47
Mean 0.08979
Std Dev 2.311

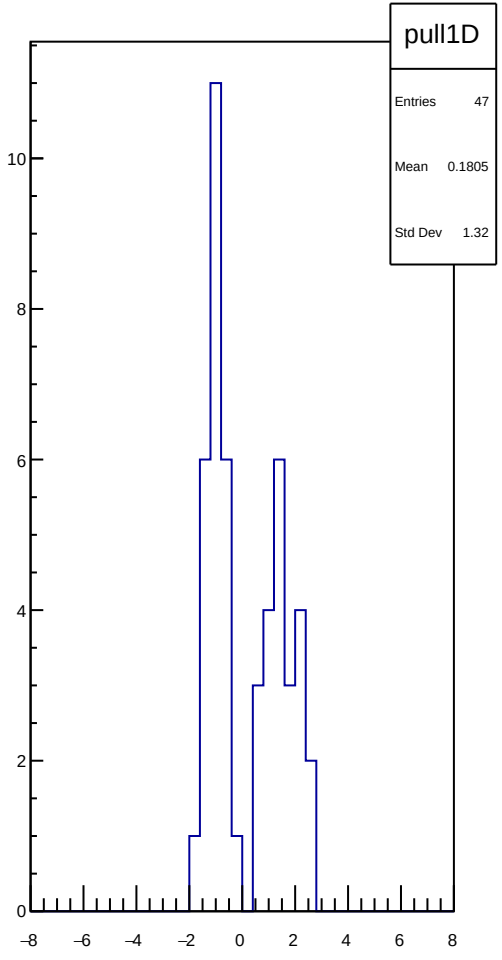

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 177.4 / 46
p0 19.08 ± 0.09514
pull
Entries 47
Mean −18.14
Std Dev 30.83

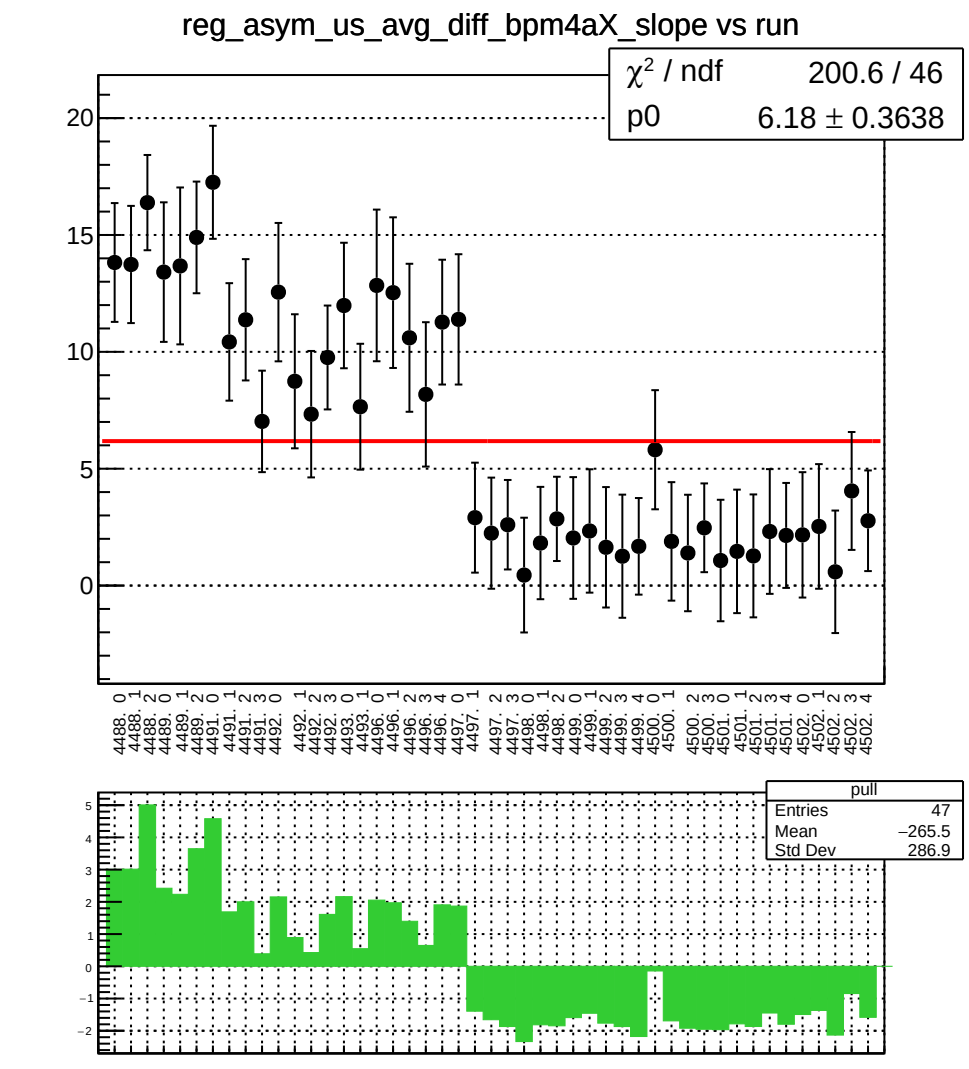

pull1D
Entries 47
Mean −0.2404
Std Dev 1.928

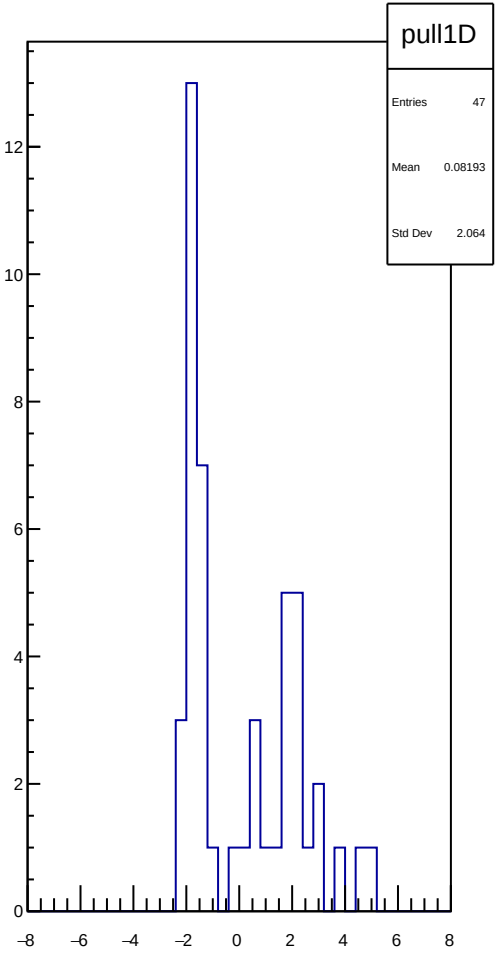

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 155.1 / 46
p0 12.86 ± 0.7357
pull
Entries 47
Mean 51.94
Std Dev 24.93

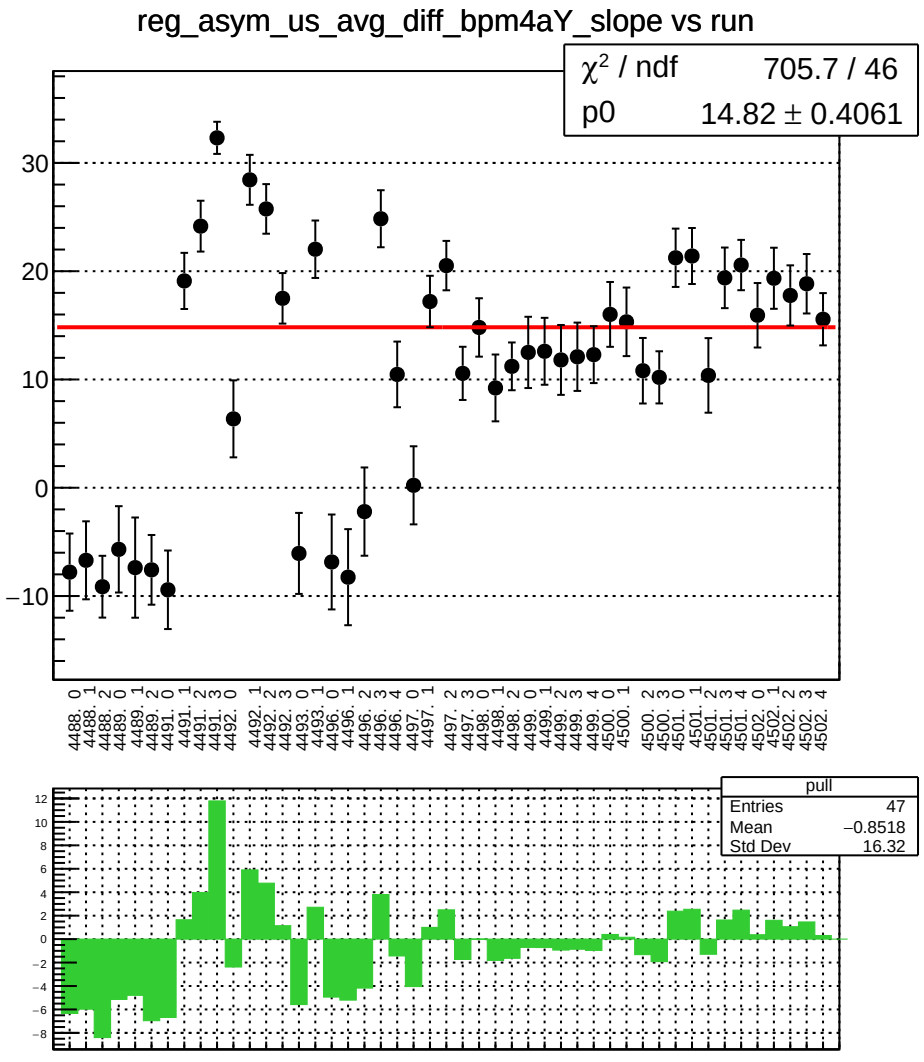

pull1D
Entries 47
Mean −0.3544
Std Dev 1.782

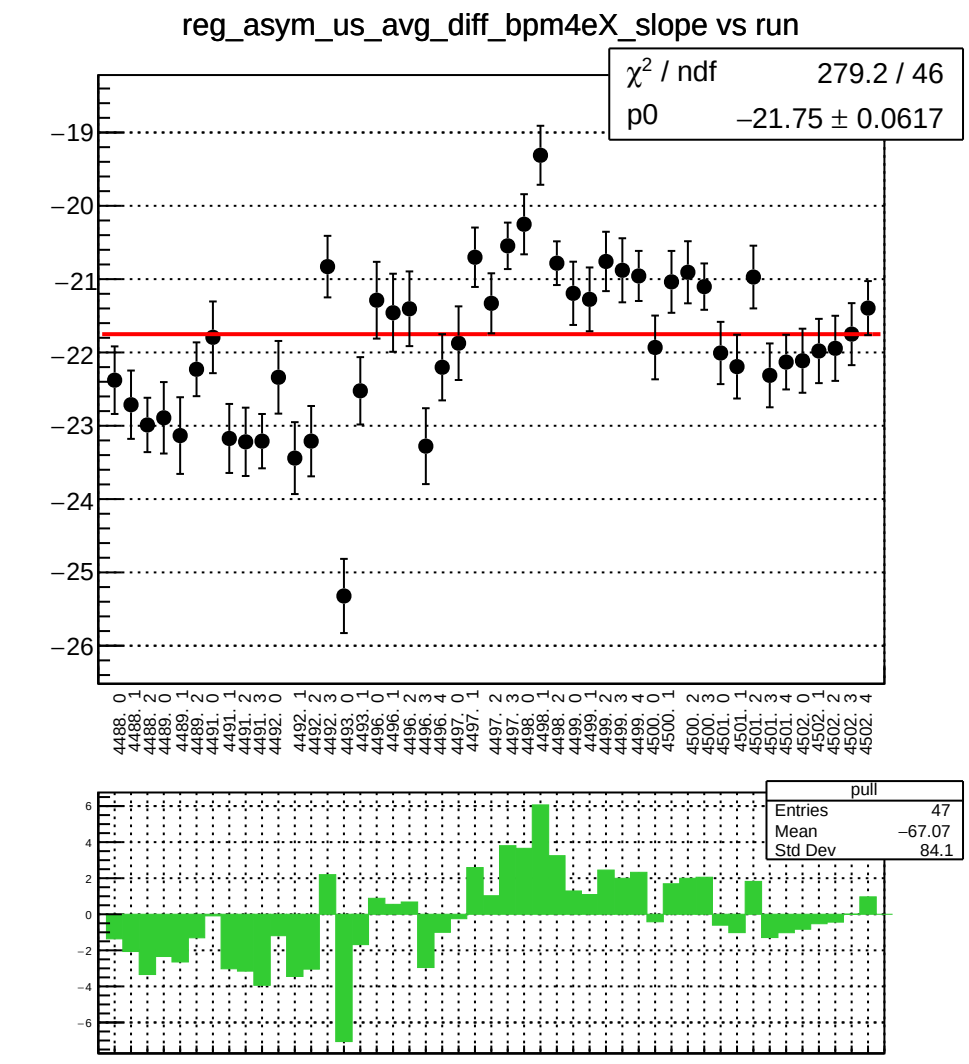

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 83.45 / 46
p0 −62.34 ± 0.1467
pull
Entries 47
Mean −57.16
Std Dev 80.2

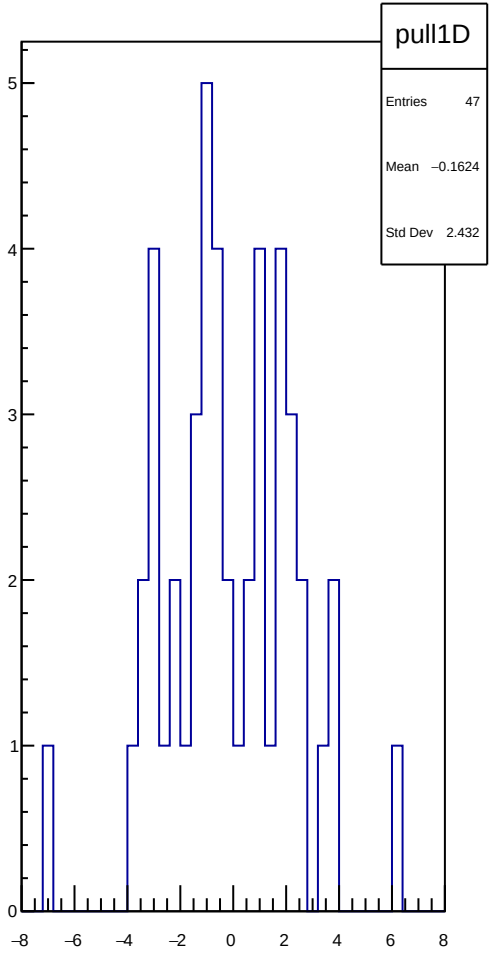

pull1D
Entries 47
Mean 0.1805
Std Dev 1.32

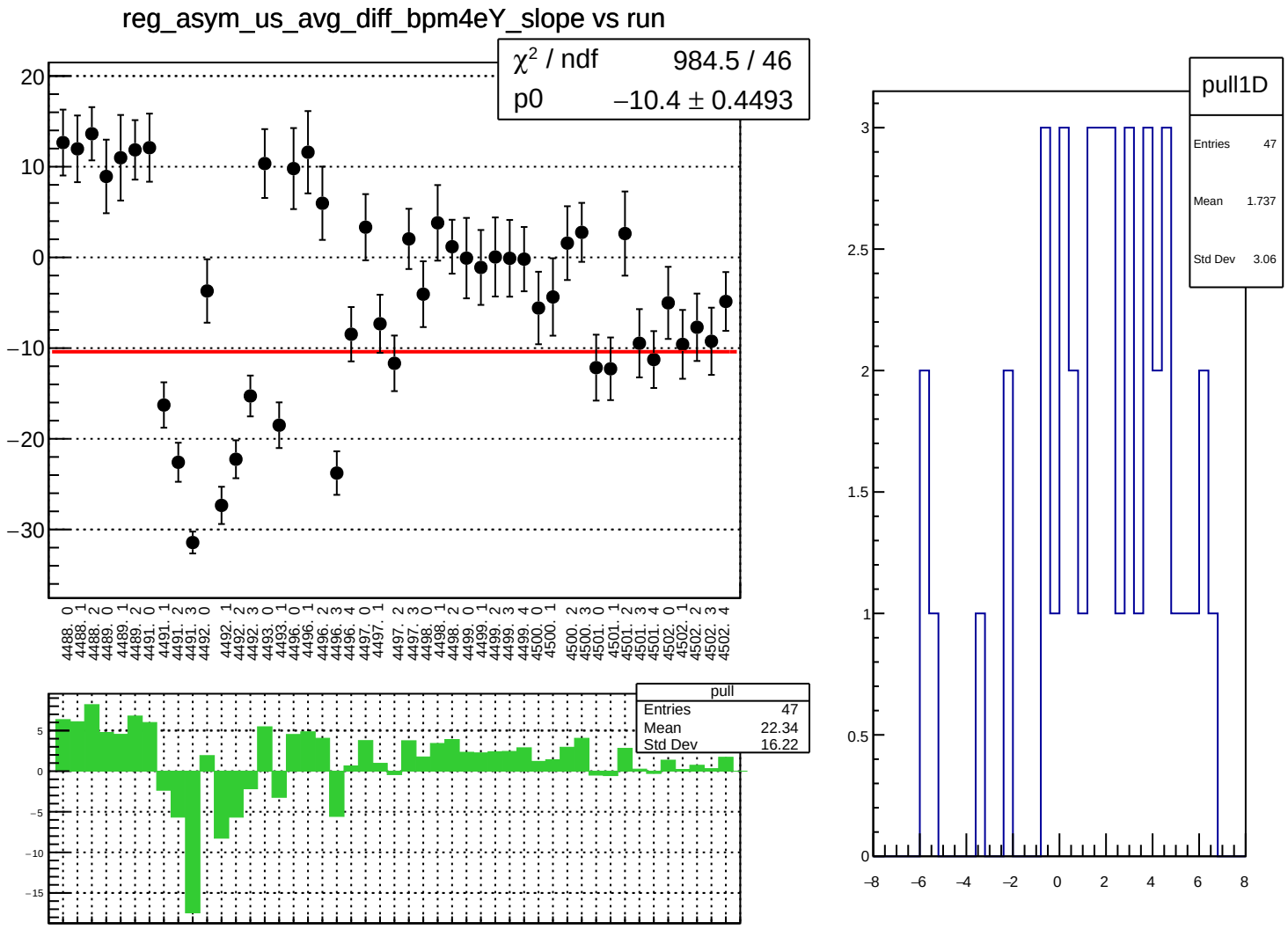

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 200.6 / 46
p0 6.18 ± 0.3638
pull
Entries 47
Mean −265.5
Std Dev 286.9

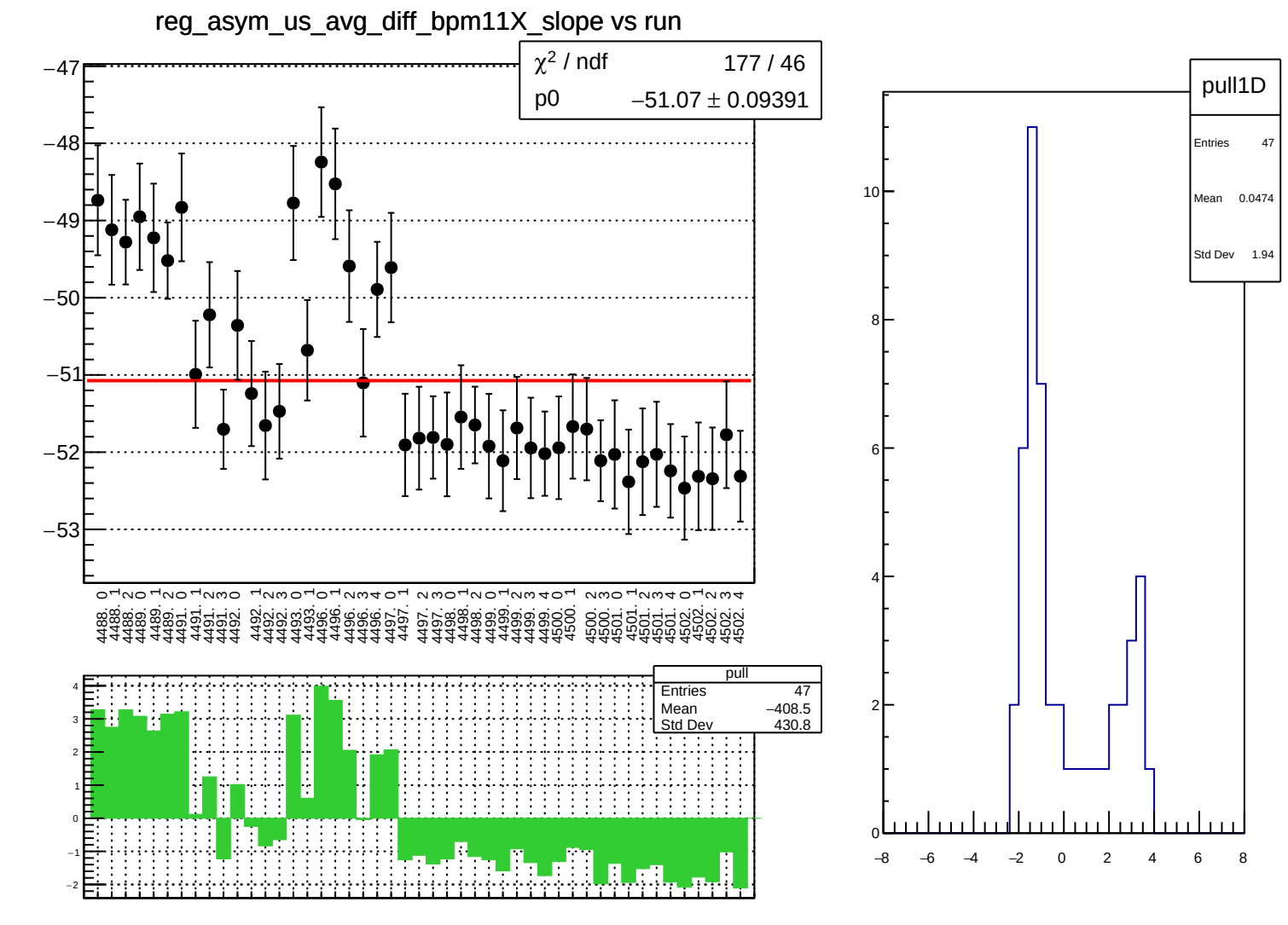

pull1D
Entries 47
Mean 0.08193
Std Dev 2.064

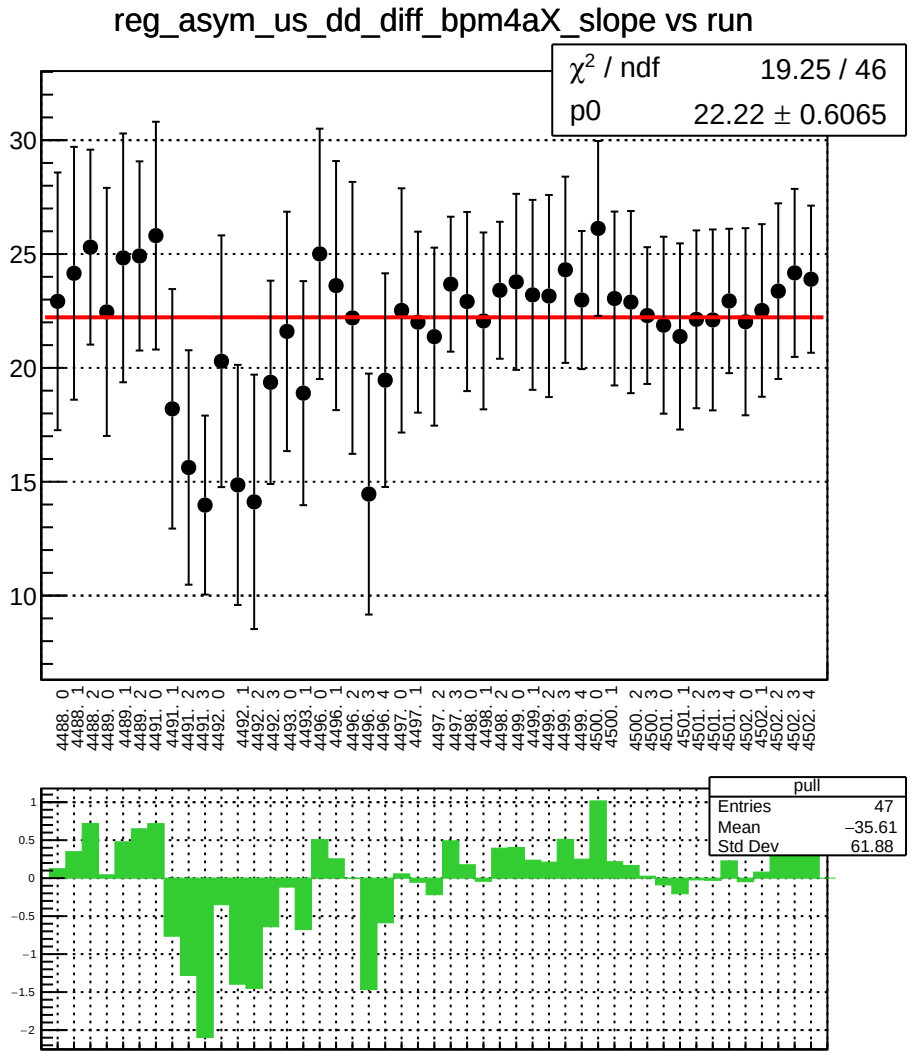

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 705.7 / 46
p0 14.82 ± 0.4061
30
20
10
0
−10
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −0.8518
Std Dev 16.32
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 47
Mean −0.7943
Std Dev 3.224
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

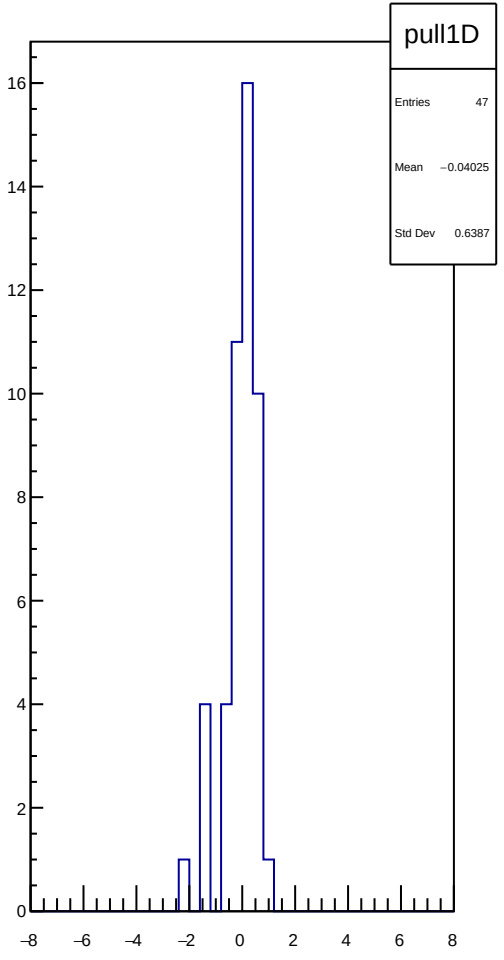

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 279.2 / 46
p0 −21.75 ± 0.0617
pull
Entries 47
Mean −67.07
Std Dev 84.1

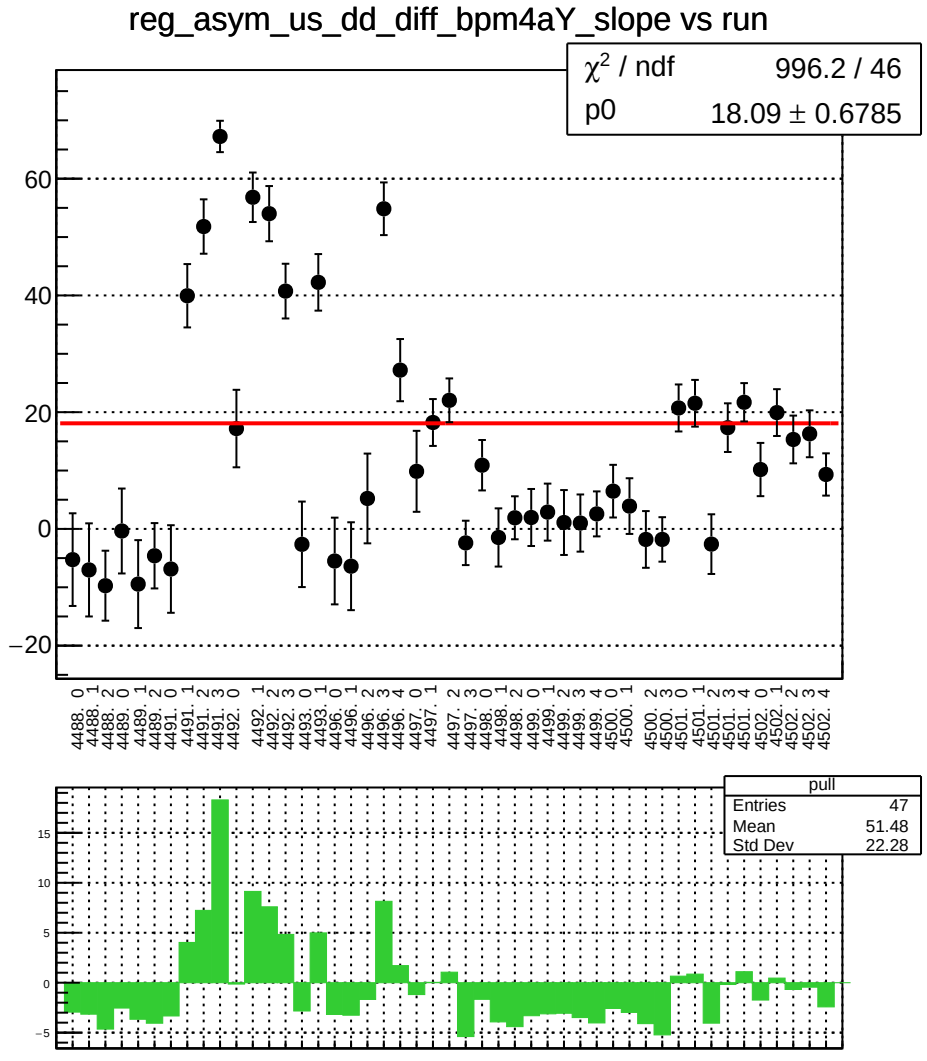

pull1D
Entries 47
Mean −0.1624
Std Dev 2.432

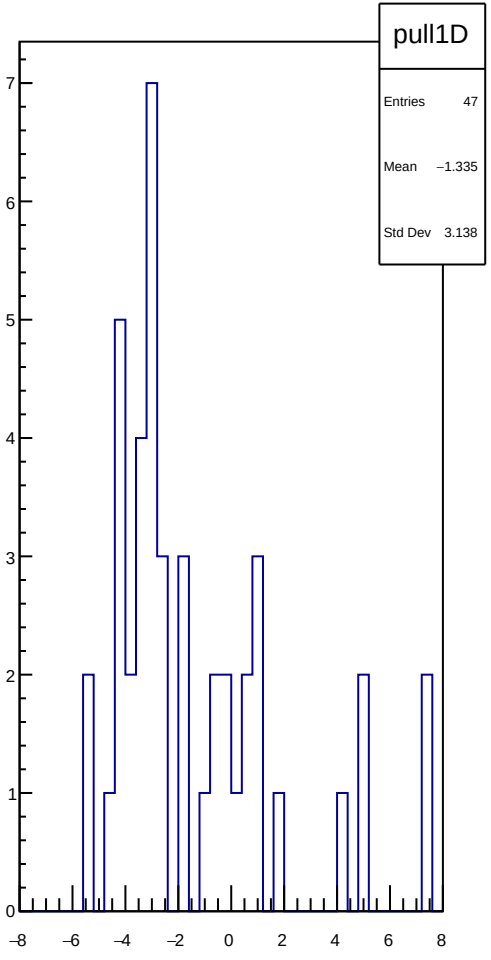

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 984.5 / 46
p0 −10.4 ± 0.4493
pull
Entries 47
Mean 22.34
Std Dev 16.22
pull1D
Entries 47
Mean 1.737
Std Dev 3.06

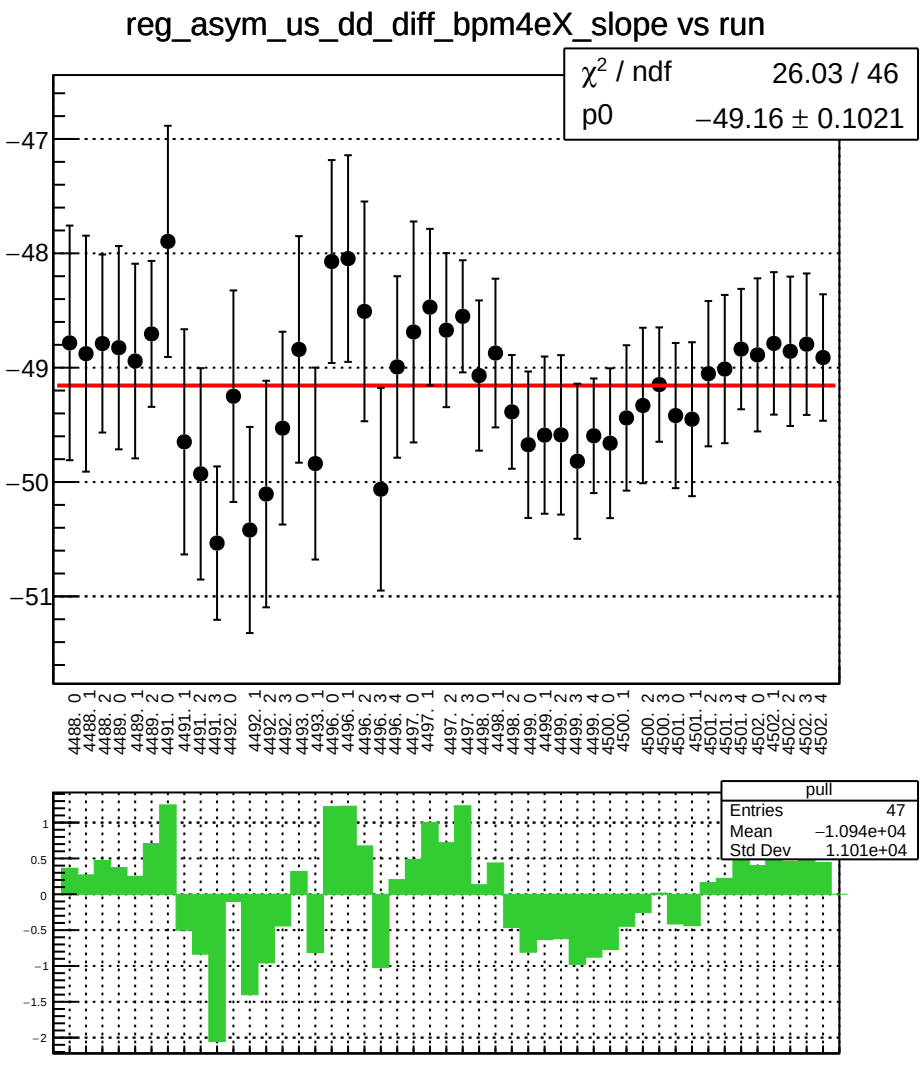

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 177 / 46
p0 −51.07 ± 0.09391
pull
Entries 47
Mean −408.5
Std Dev 430.8
pull1D
Entries 47
Mean 0.0474
Std Dev 1.94

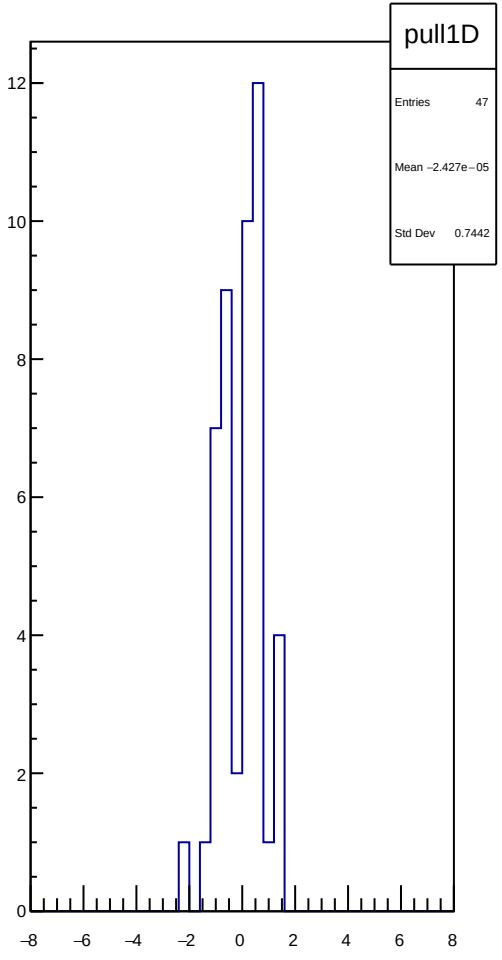

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.25 / 46
p0 22.22 ± 0.6065
pull
Entries 47
Mean −35.61
Std Dev 61.88

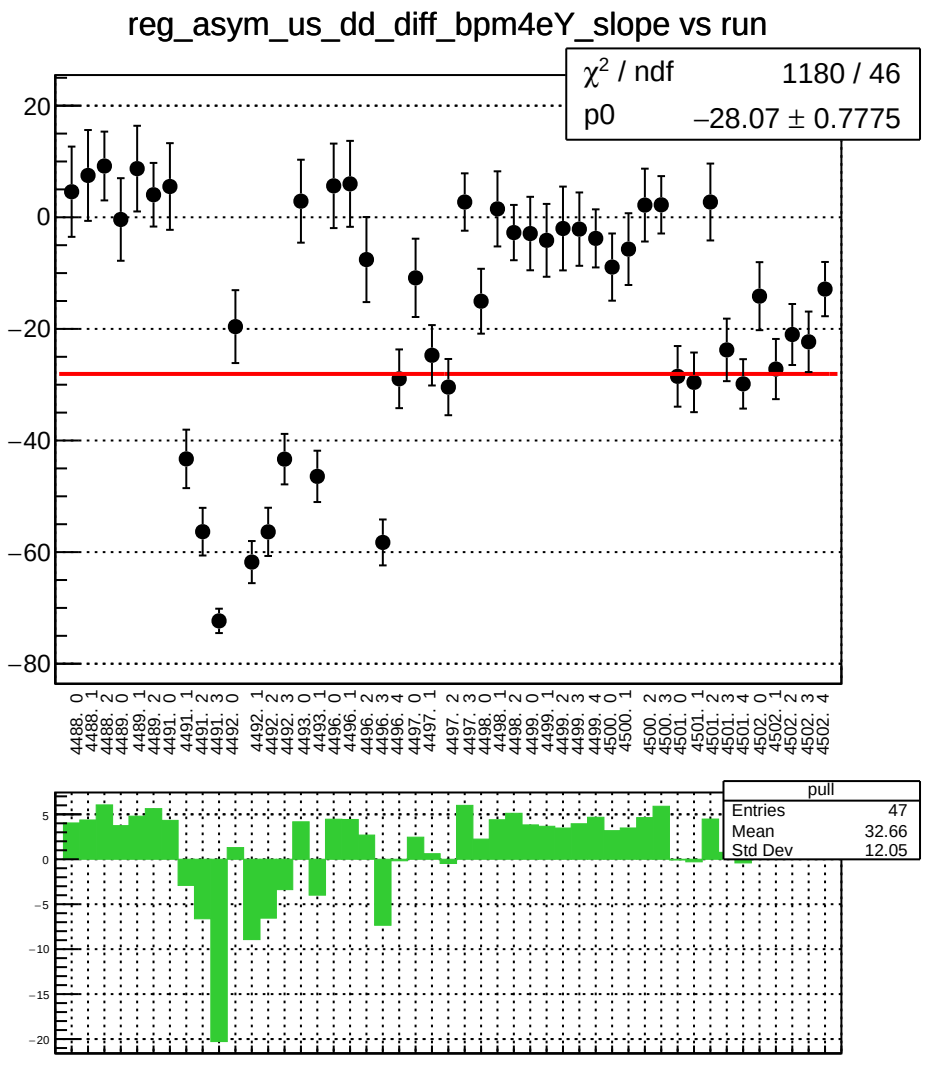

pull1D
Entries 47
Mean −0.04025
Std Dev 0.6387

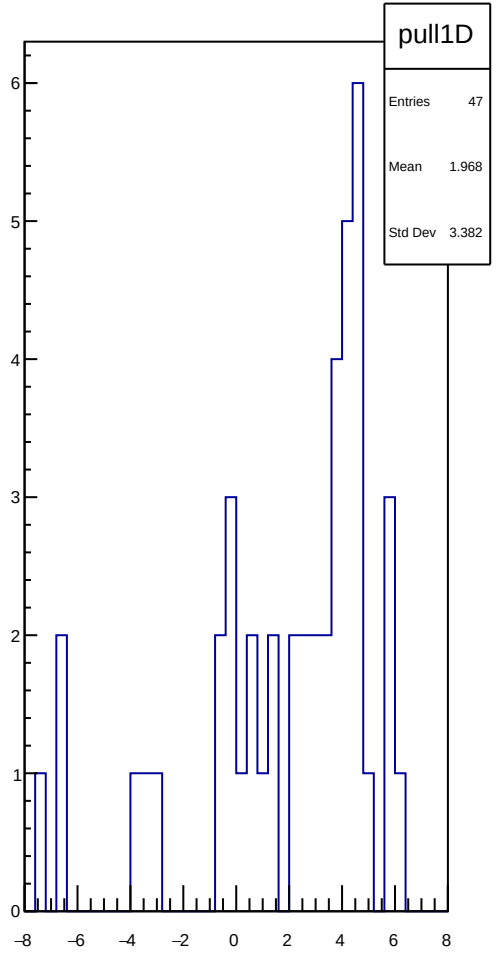

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 996.2 / 46
p0 18.09 ± 0.6785
60
40
20
0
−20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 51.48
Std Dev 22.28
15
10
5
0
−5

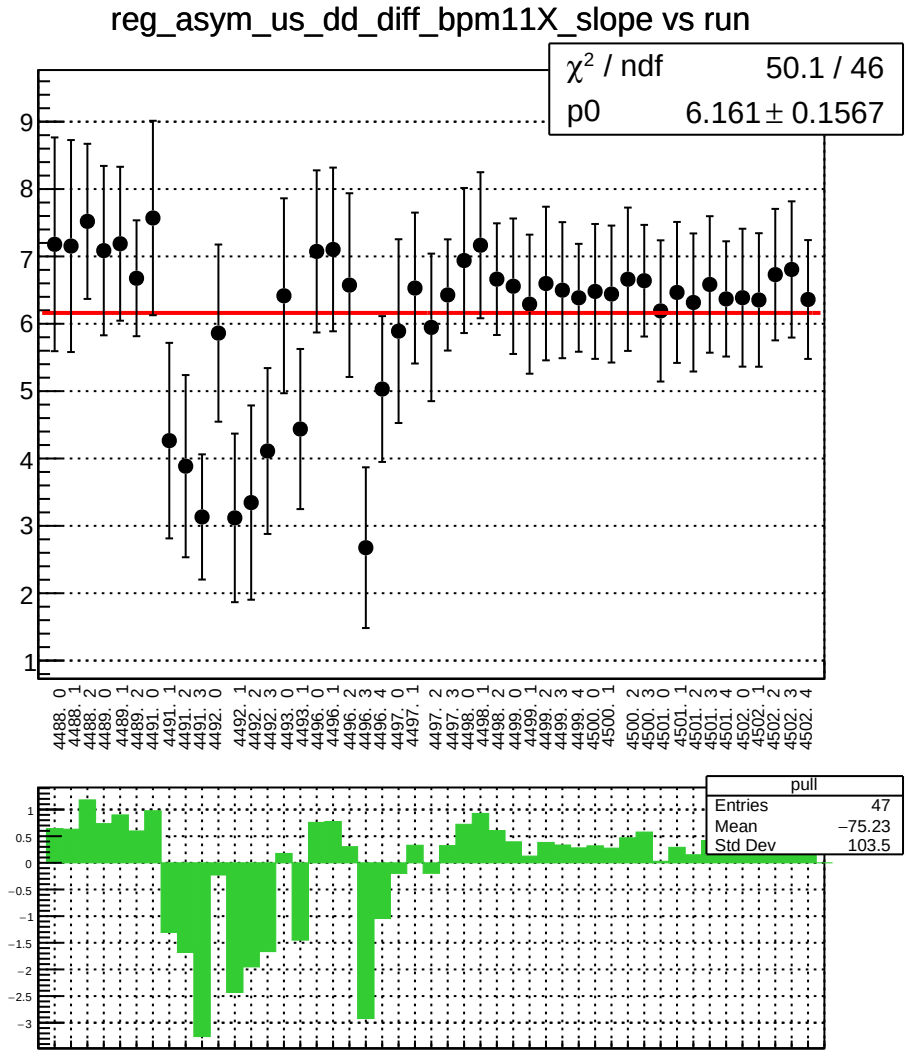

pull1D
Entries 47
Mean −1.335
Std Dev 3.138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

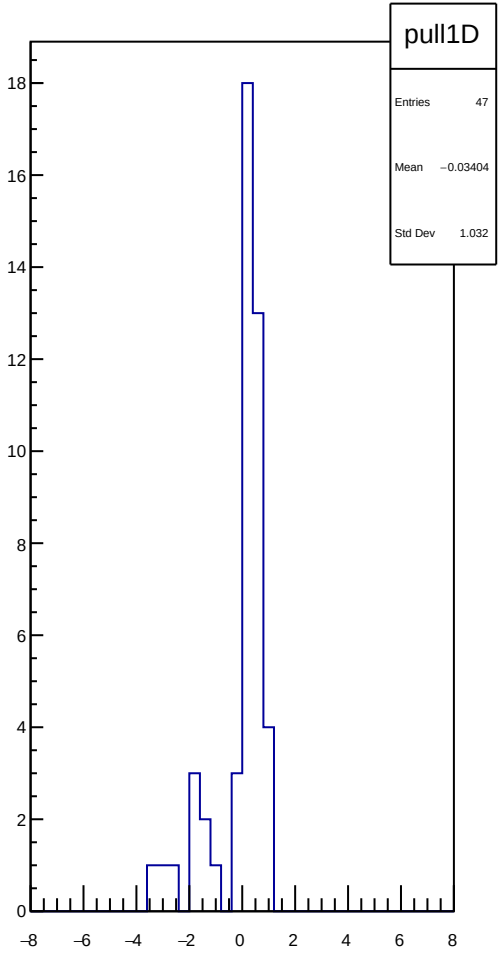

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.03 / 46
p0 −49.16 ± 0.1021
−47
−48
−49
−50
−51
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −1.094e+04
Std Dev 1.101e+04
1
0.5
0
−0.5
−1
−1.5
−2

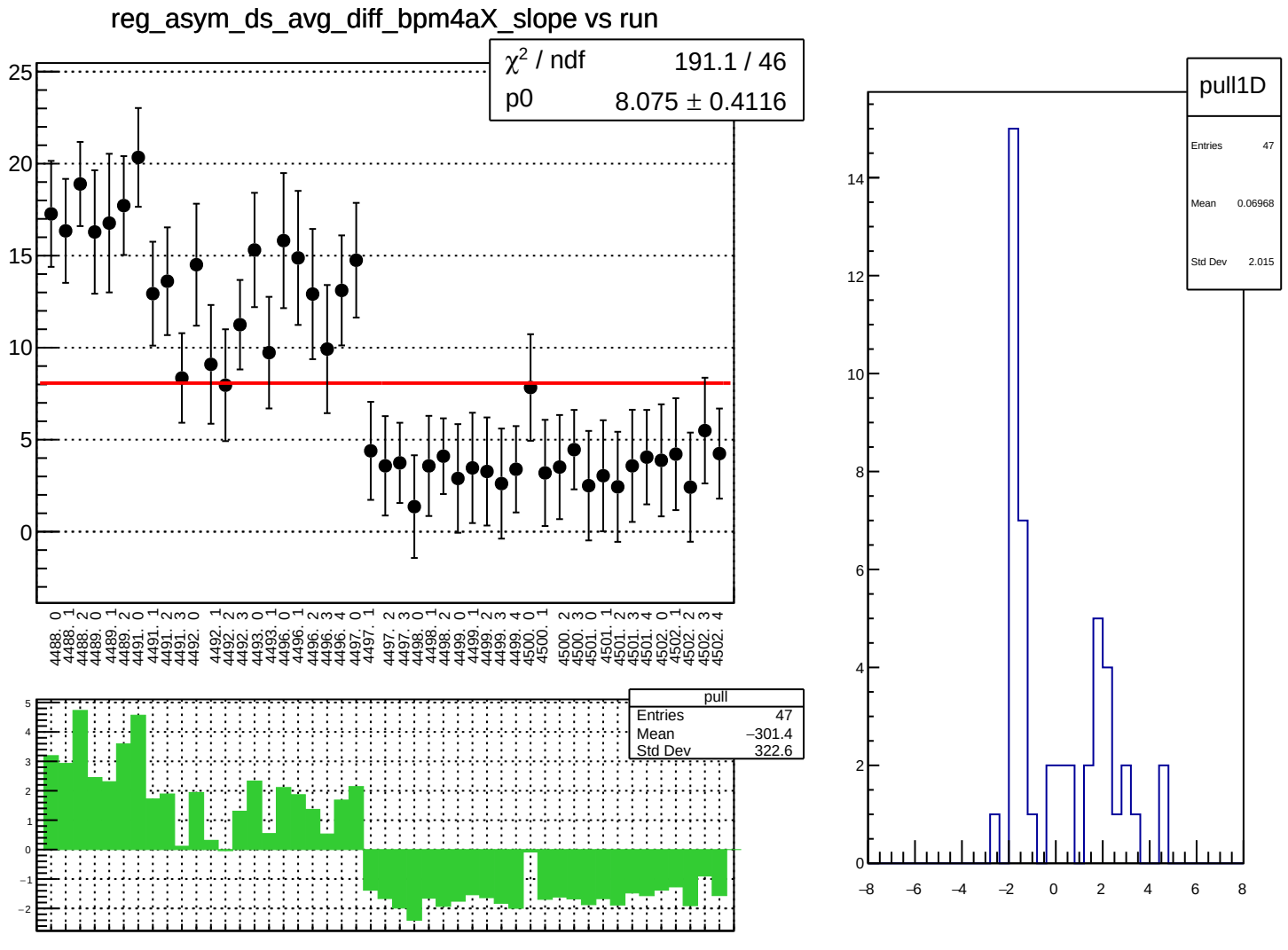

pull1D
Entries 47
Mean −2.427e−05
Std Dev 0.7442
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

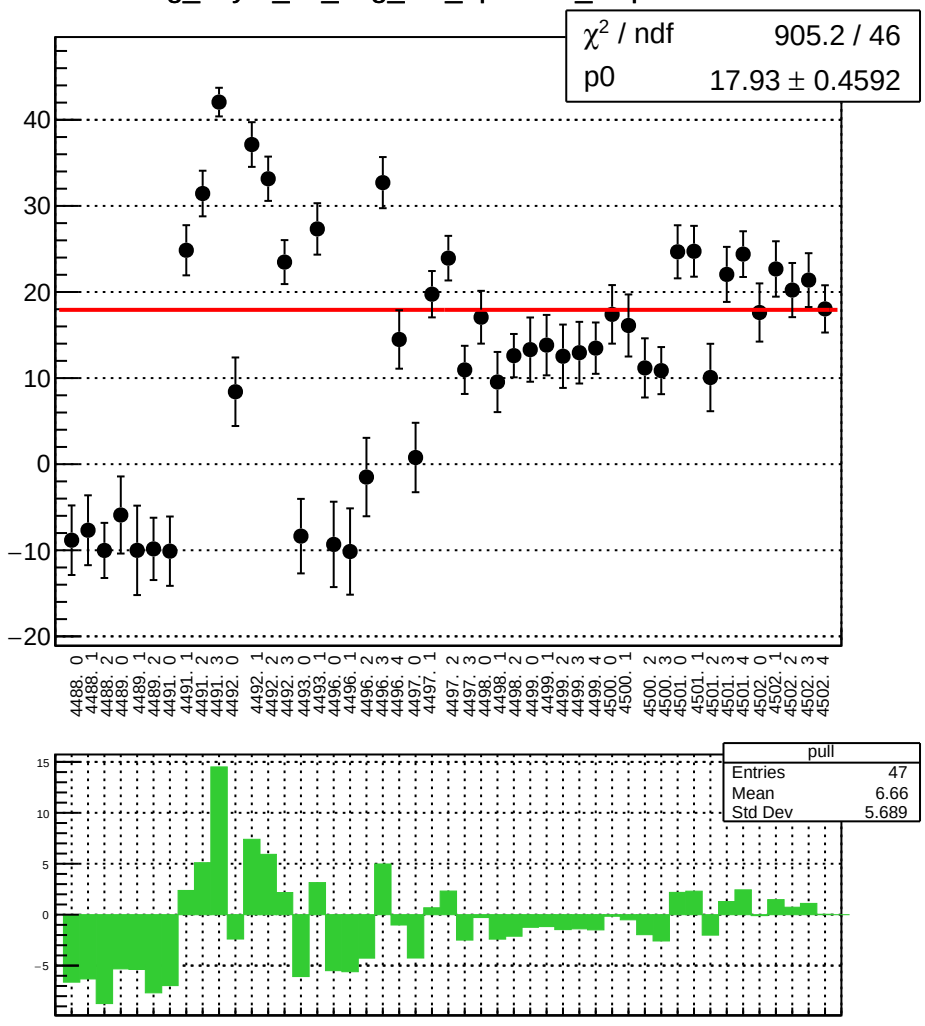

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 1180 / 46
p0 −28.07 ± 0.7775
pull
Entries 47
Mean 32.66
Std Dev 12.05

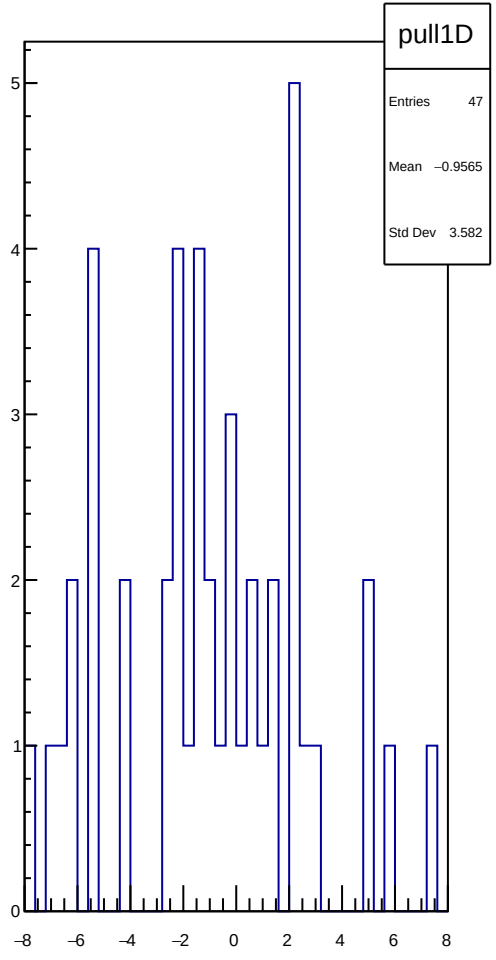

pull1D
Entries 47
Mean 1.968
Std Dev 3.382

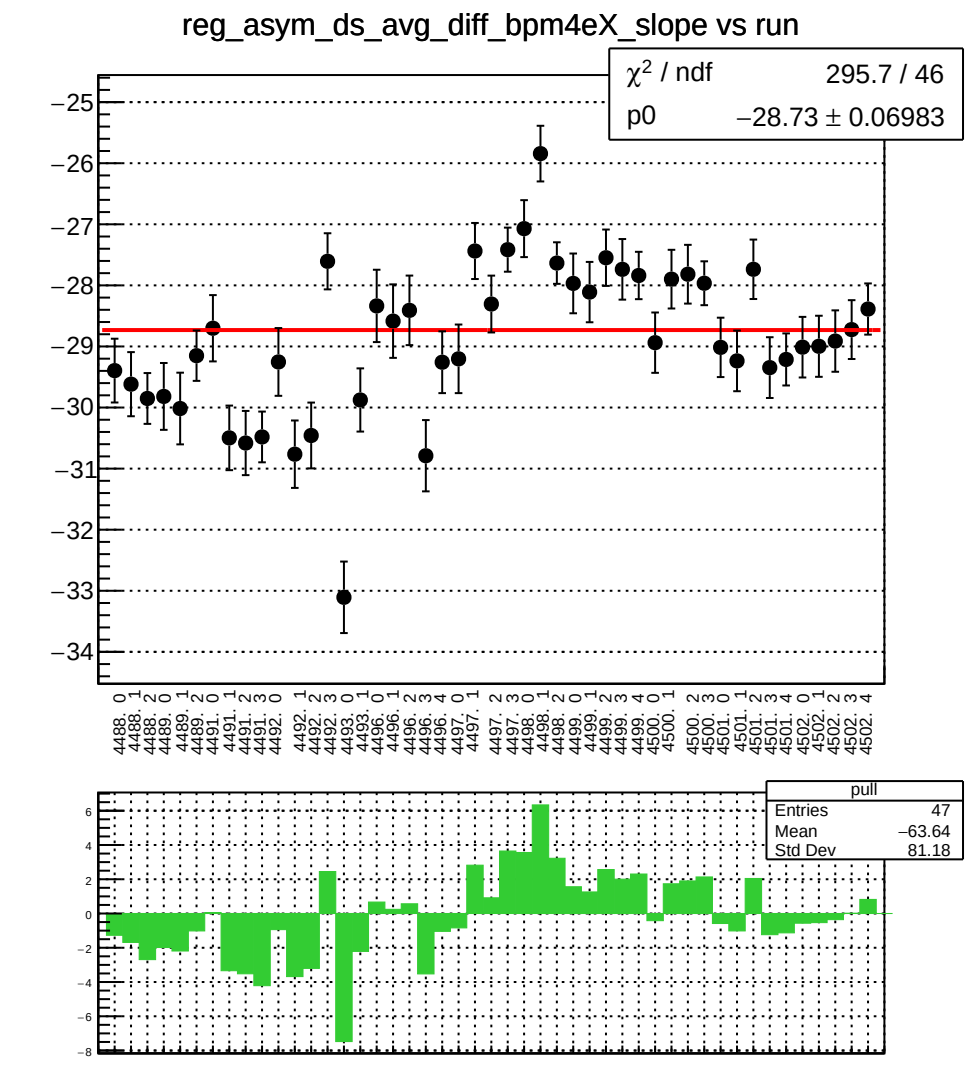

reg_asym_us_dd_diff_bpm11X_slope vs run
χ^2 / ndf 50.1 / 46
p0 6.161 ± 0.1567
pull
Entries 47
Mean −75.23
Std Dev 103.5

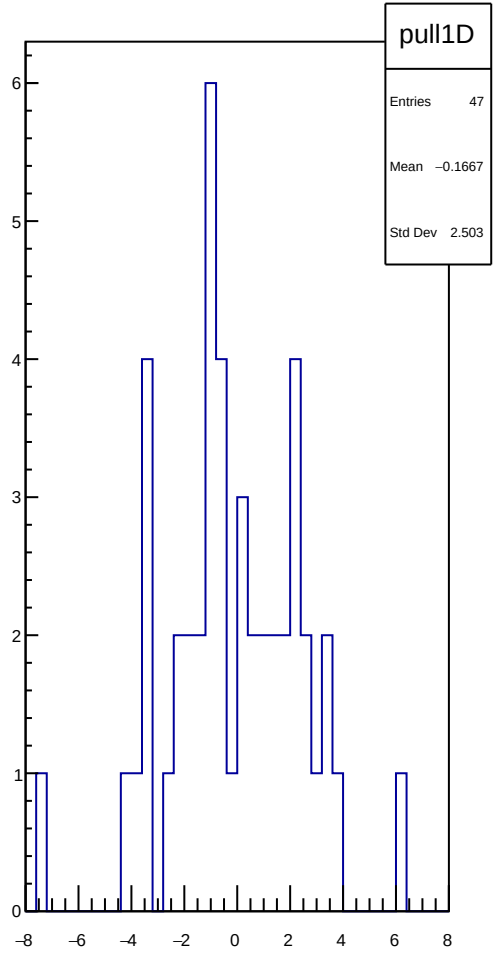

pull1D
Entries 47
Mean −0.03404
Std Dev 1.032

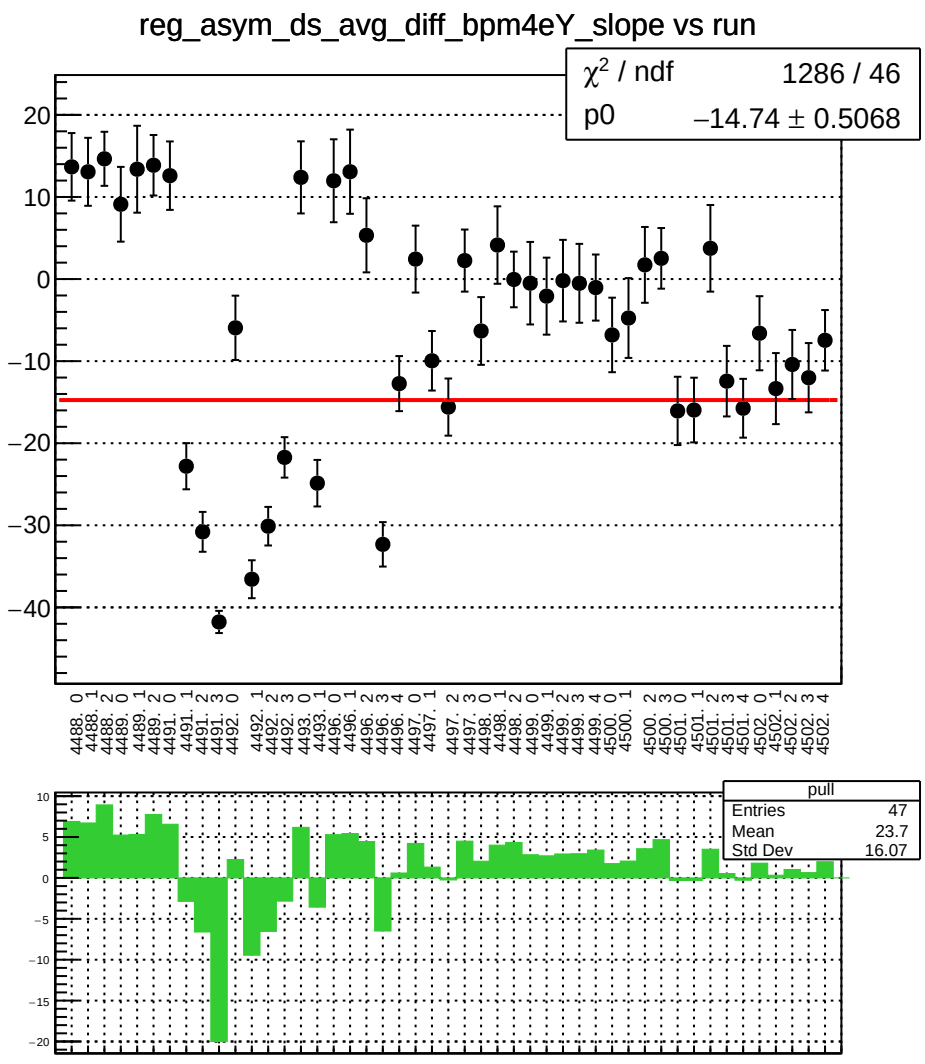

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 191.1 / 46
p0 8.075 ± 0.4116
pull
Entries 47
Mean −301.4
Std Dev 322.6
pull1D
Entries 47
Mean 0.06968
Std Dev 2.015

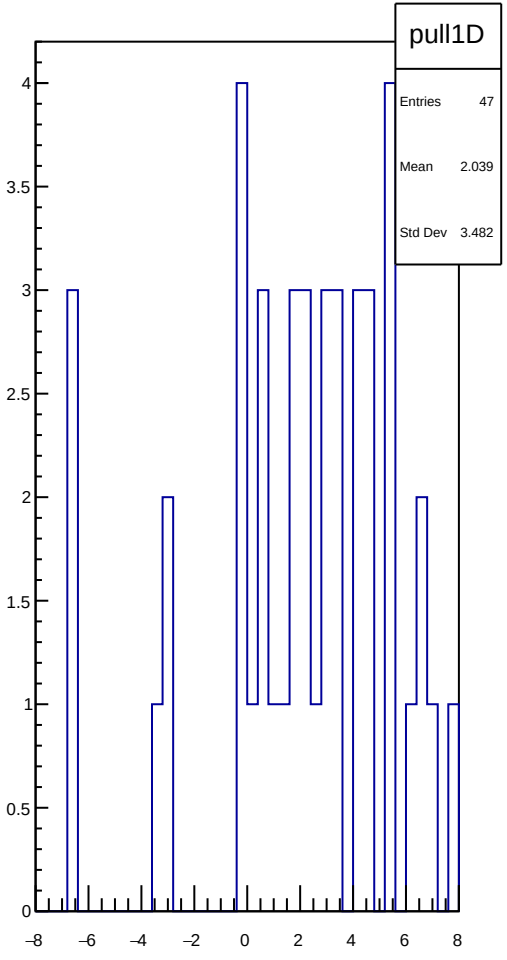

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 905.2 / 46
p0 17.93 ± 0.4592
pull
Entries 47
Mean 6.66
Std Dev 5.689

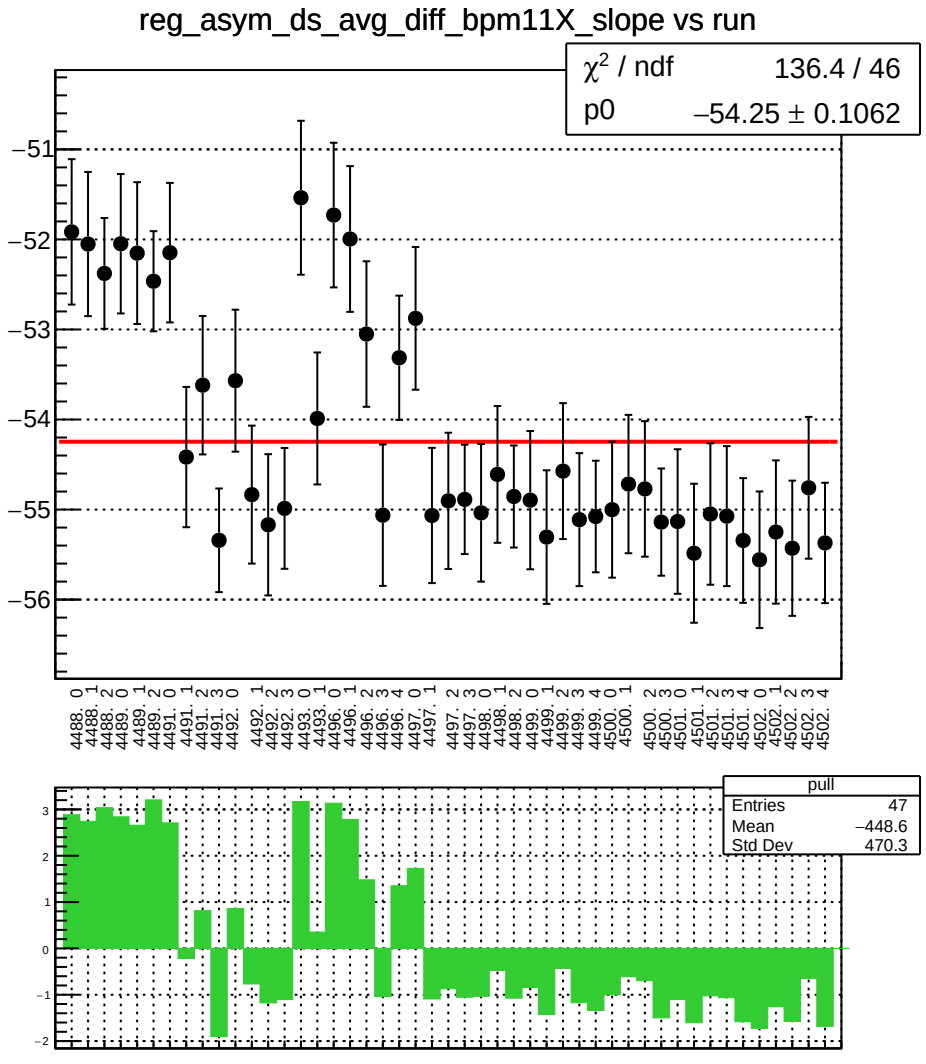

pull1D
Entries 47
Mean −0.9565
Std Dev 3.582

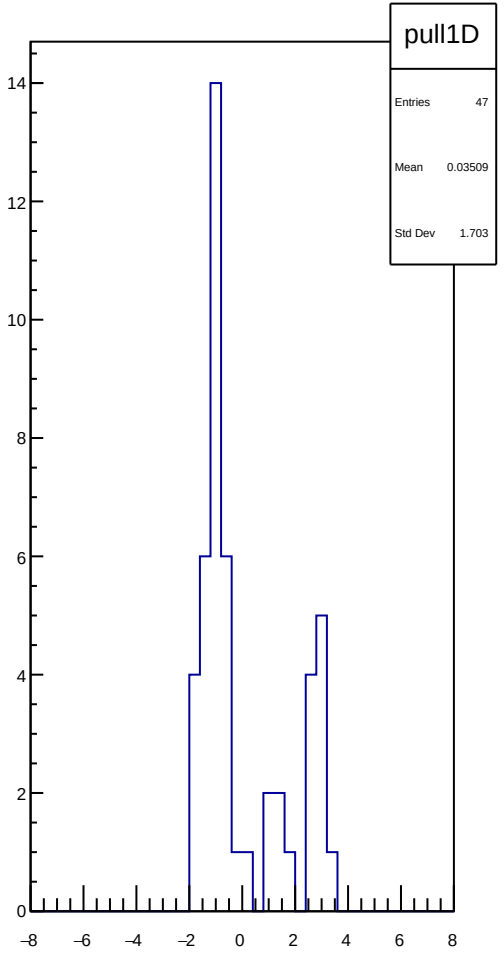

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 295.7 / 46
p0 −28.73 ± 0.06983
pull
Entries 47
Mean −63.64
Std Dev 81.18

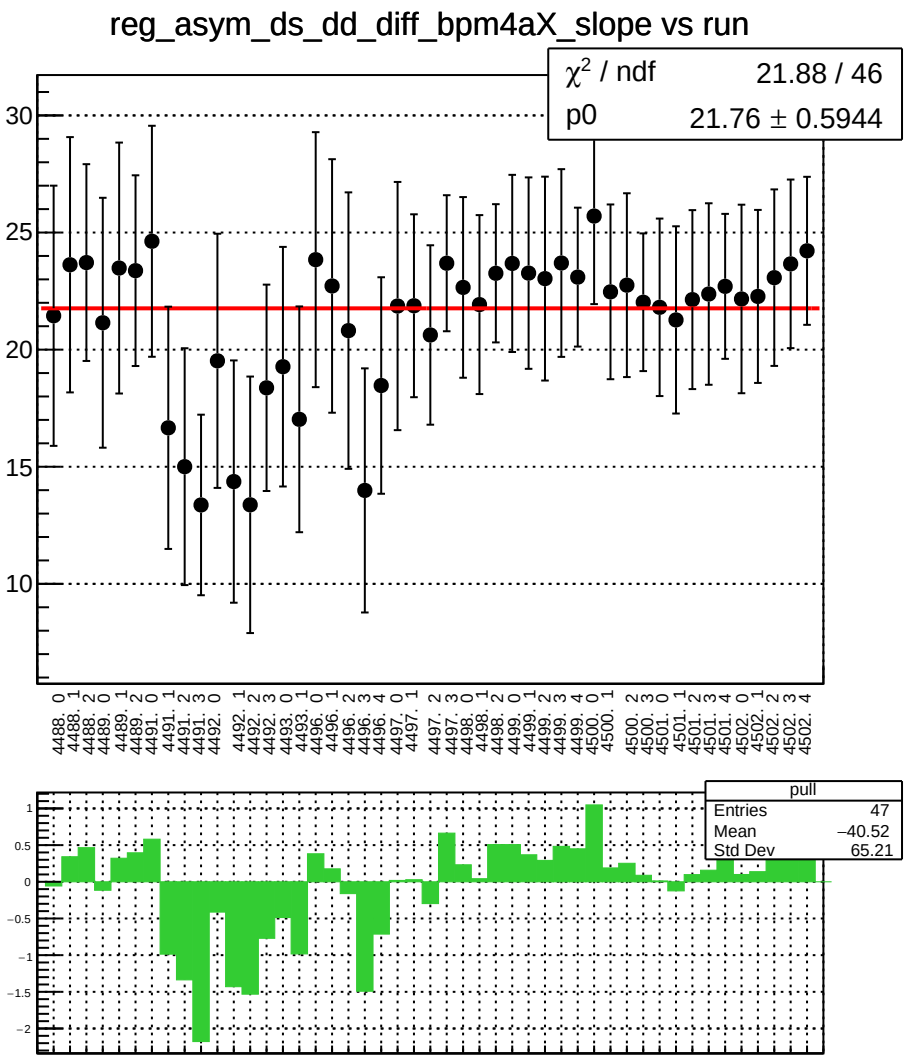

pull1D
Entries 47
Mean −0.1667
Std Dev 2.503

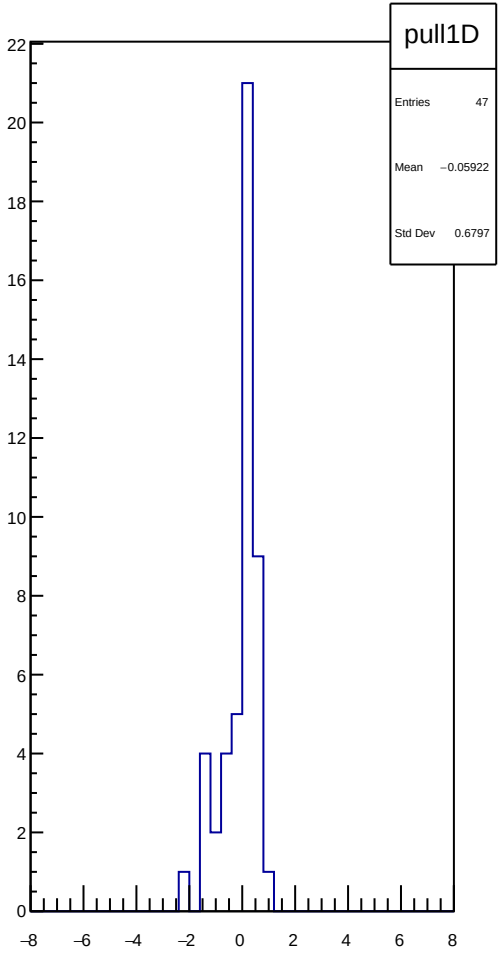

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 1286 / 46
p0 −14.74 ± 0.5068
pull
Entries 47
Mean 23.7
Std Dev 16.07

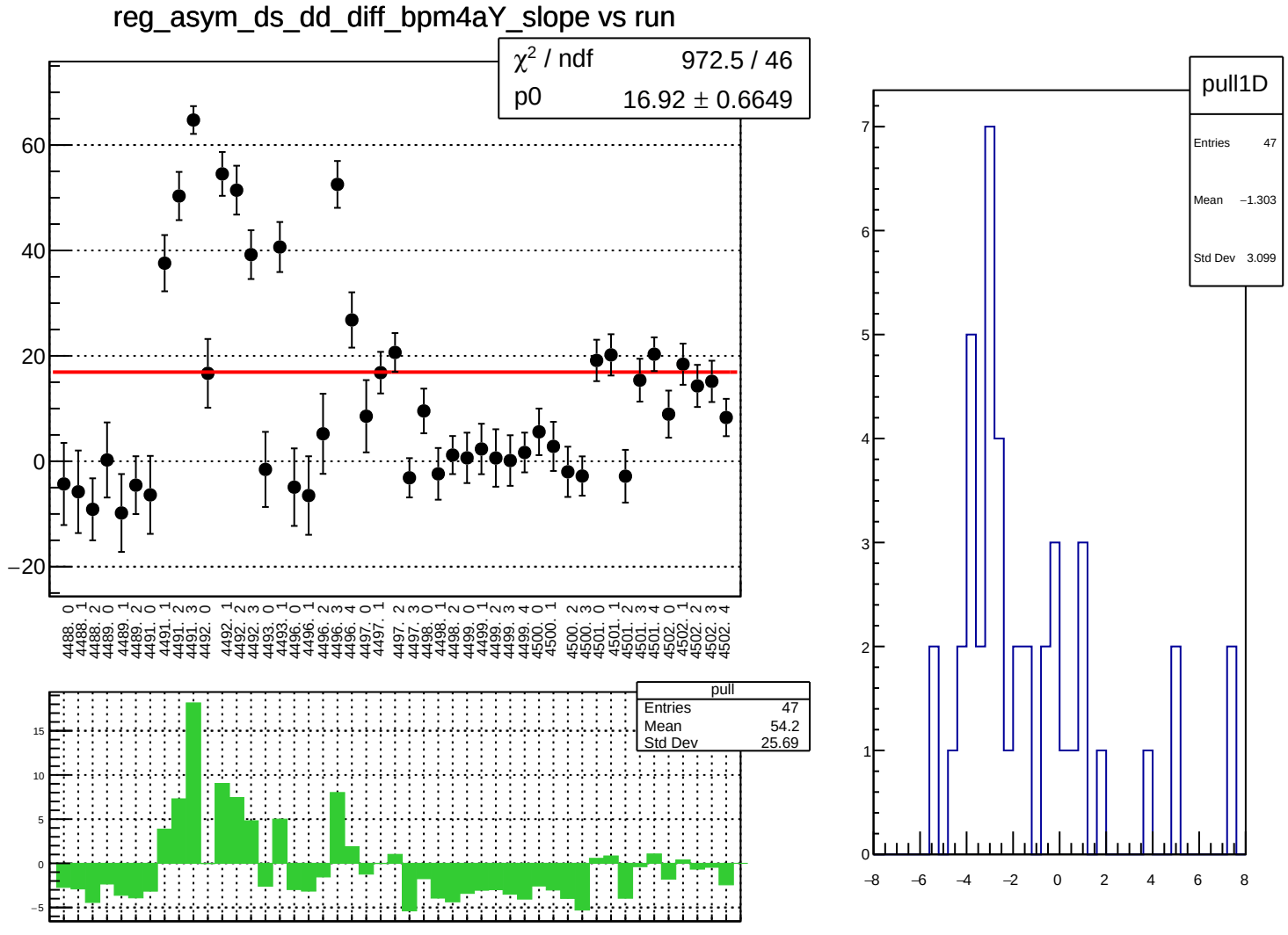

pull1D
Entries 47
Mean 2.039
Std Dev 3.482

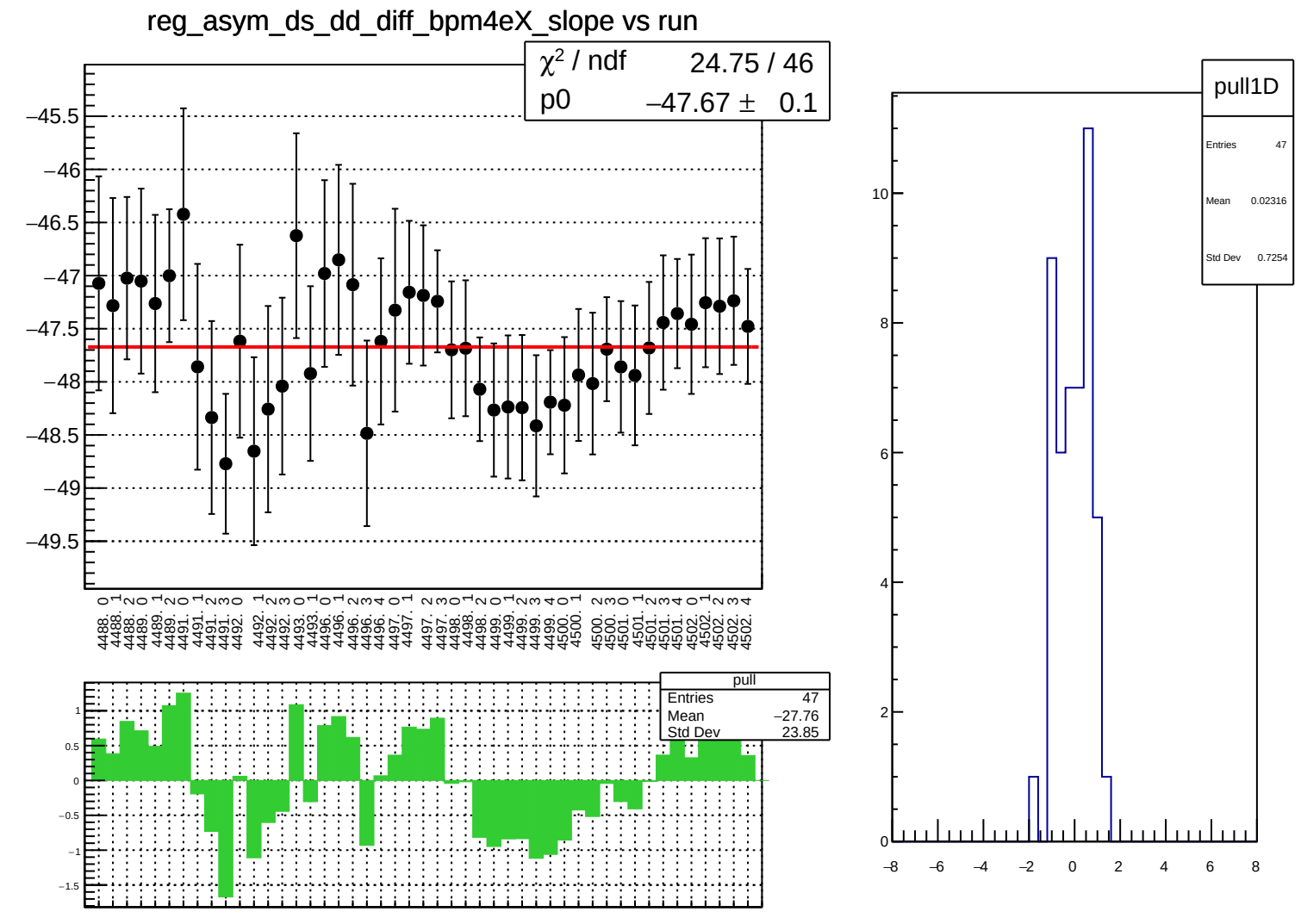

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 136.4 / 46
p0 −54.25 ± 0.1062
pull
Entries 47
Mean −448.6
Std Dev 470.3

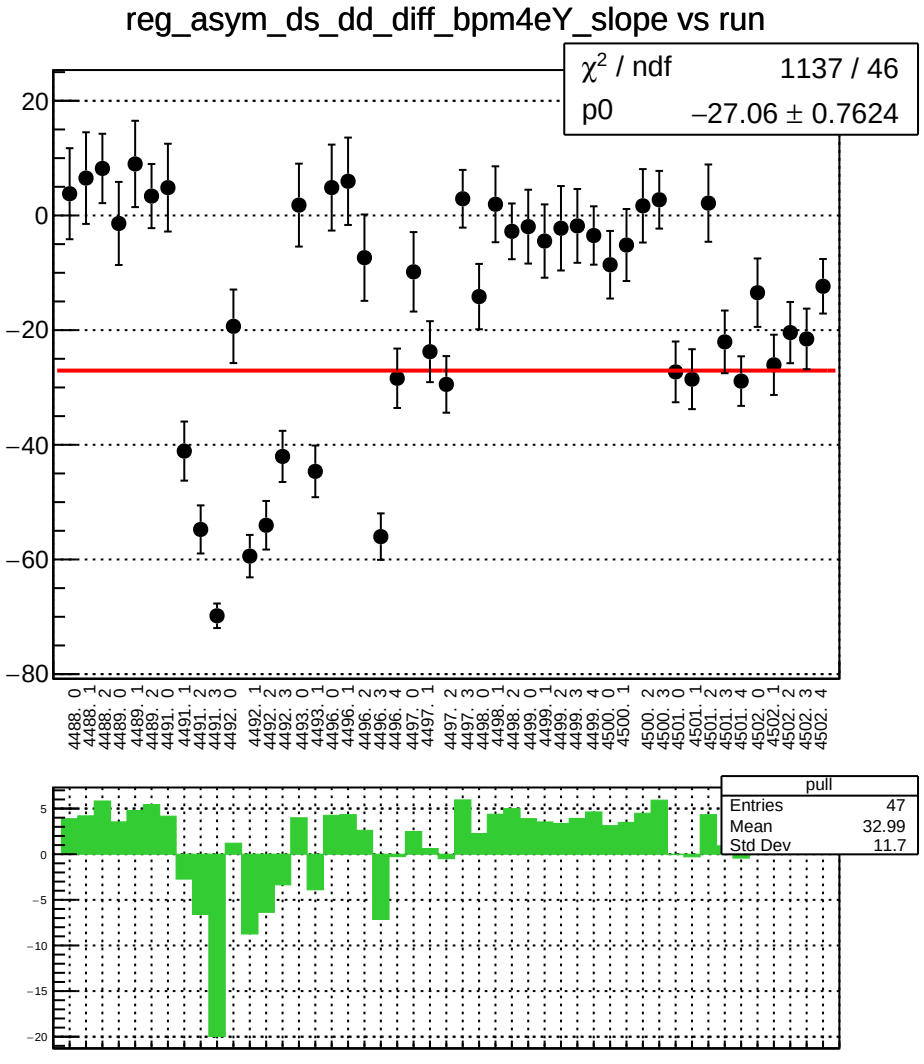

pull1D
Entries 47
Mean 0.03509
Std Dev 1.703

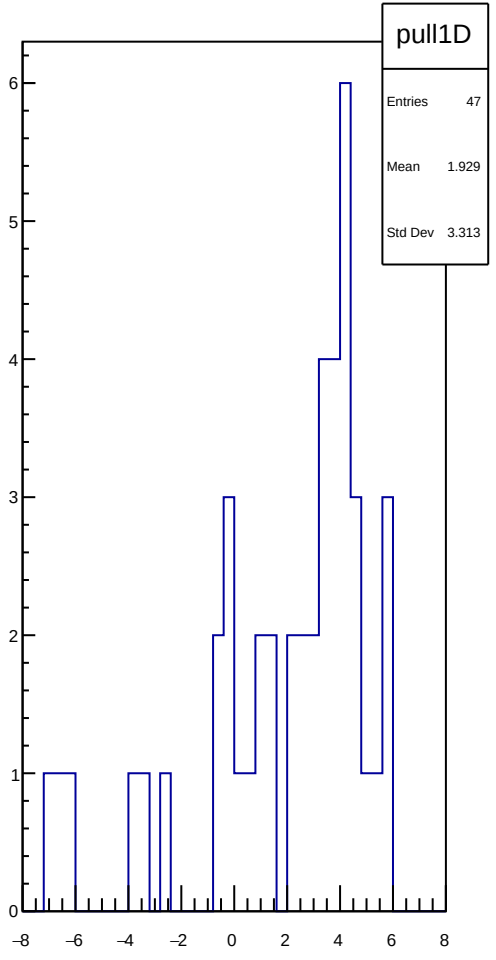

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.88 / 46
p0 21.76 ± 0.5944
pull
Entries 47
Mean −40.52
Std Dev 65.21

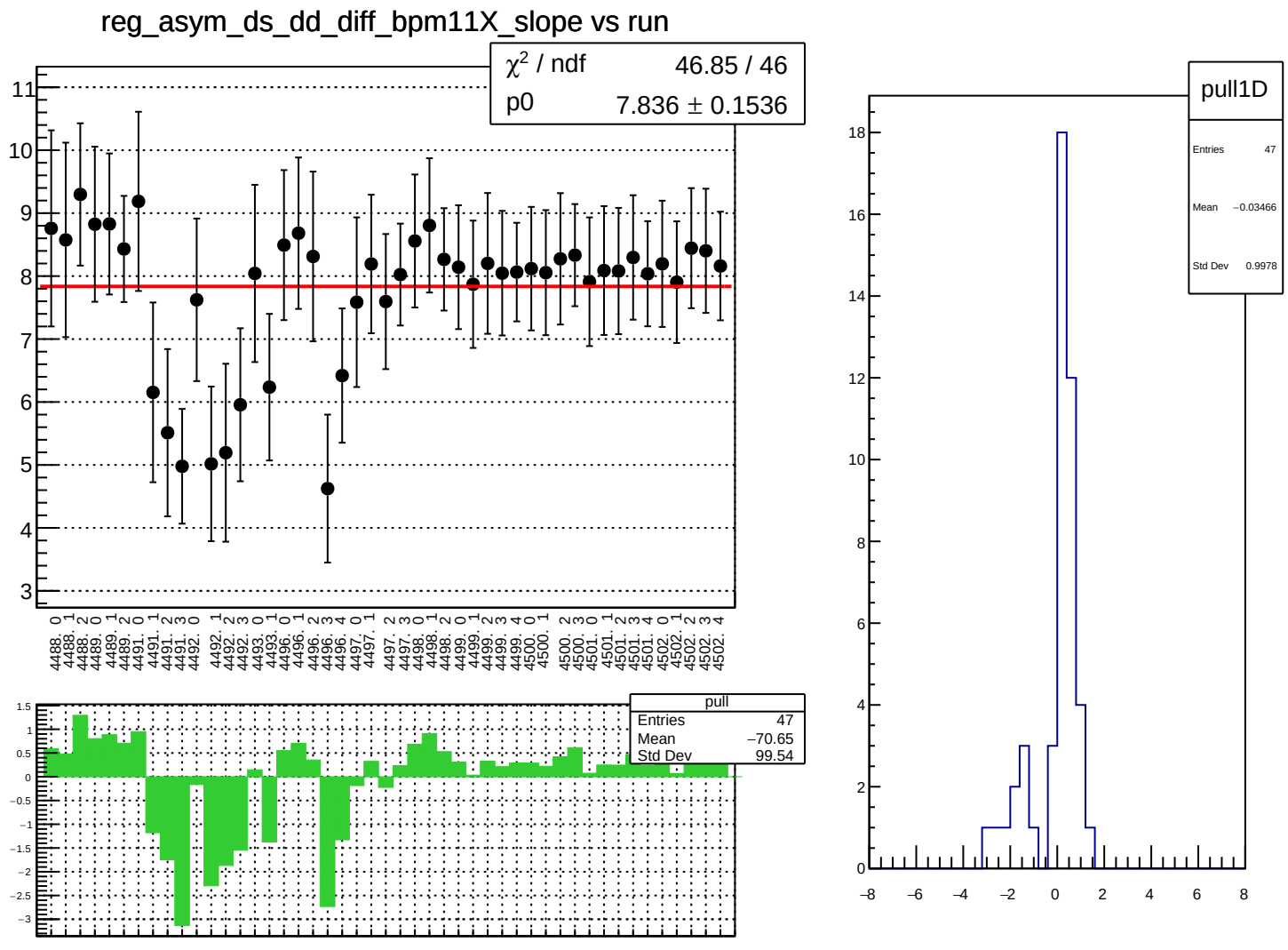

pull1D
Entries 47
Mean −0.05922
Std Dev 0.6797

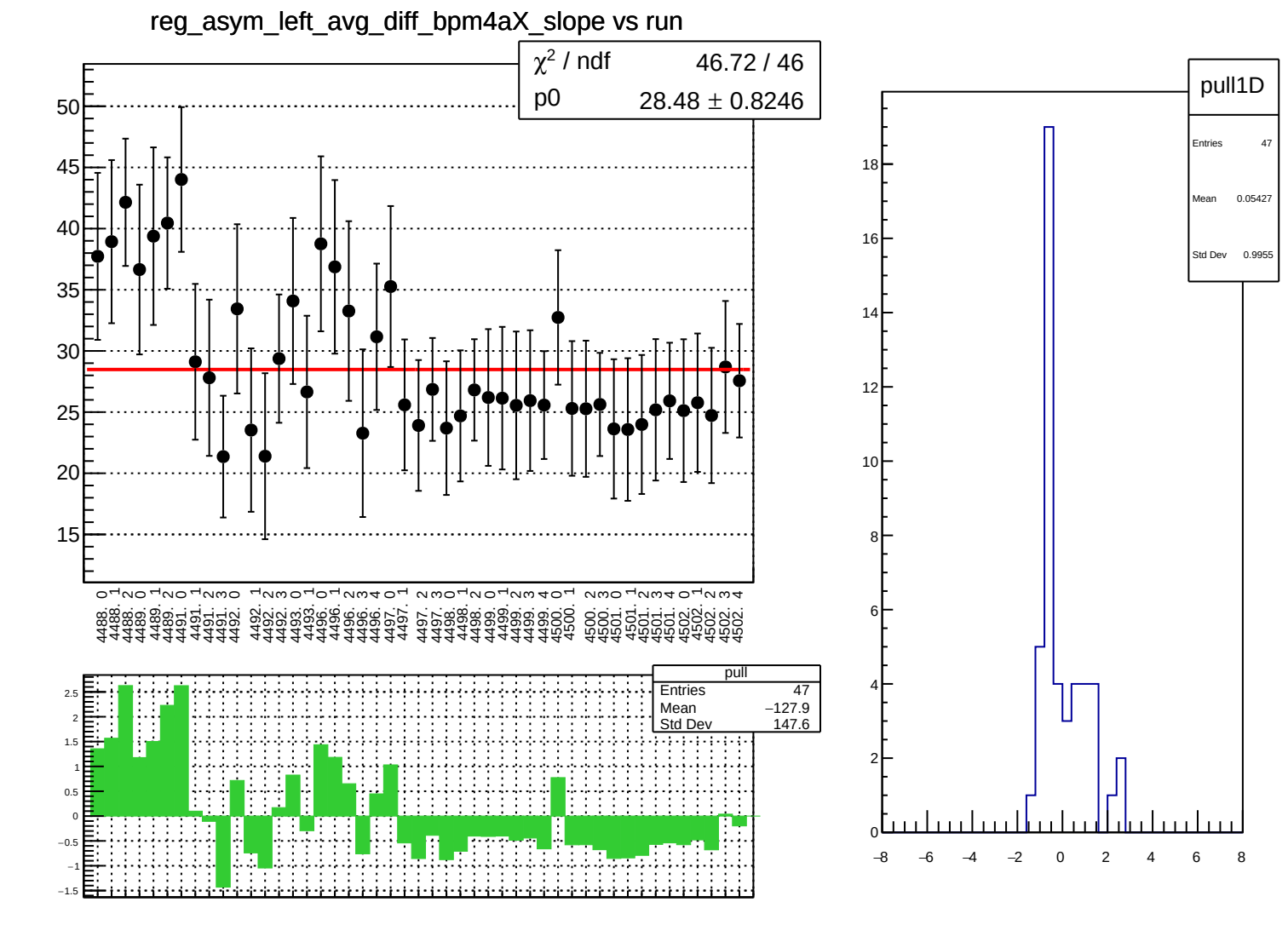

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 972.5 / 46
p0 16.92 ± 0.6649
60
40
20
0
−20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 54.2
Std Dev 25.69
15
10
5
0
−5
pull1D
Entries 47
Mean −1.303
Std Dev 3.099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

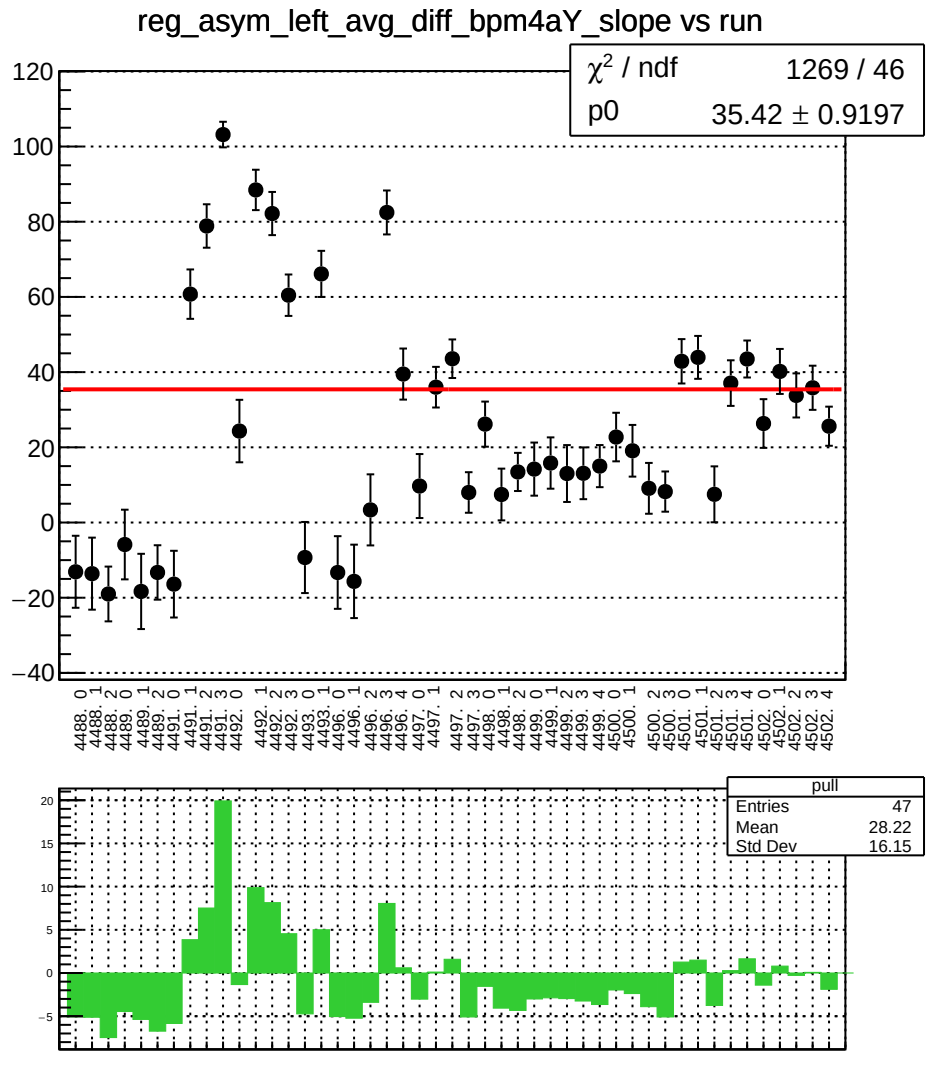

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.75 / 46
p0 −47.67 ± 0.1
−45.5
−46
−46.5
−47
−47.5
−48
−48.5
−49
−49.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −27.76
Std Dev 23.85
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.02316
Std Dev 0.7254
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

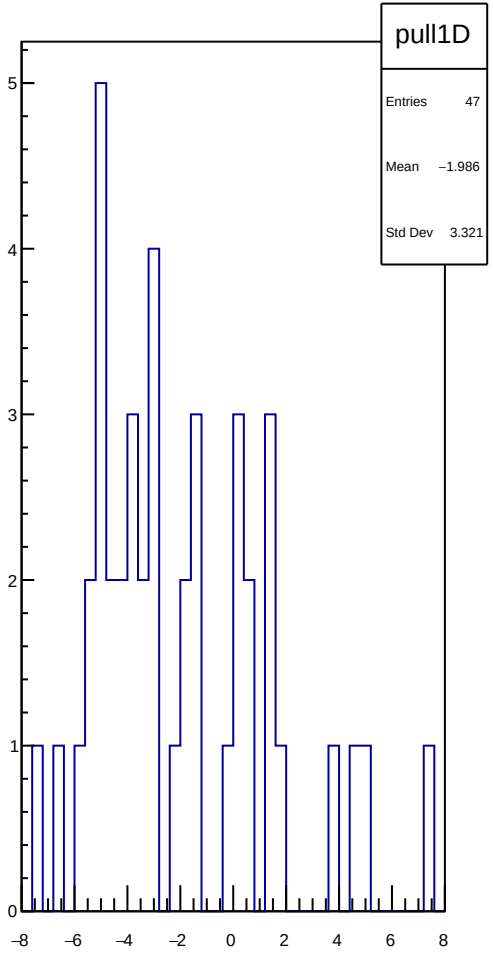

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1137 / 46
p0 −27.06 ± 0.7624
pull
Entries 47
Mean 32.99
Std Dev 11.7

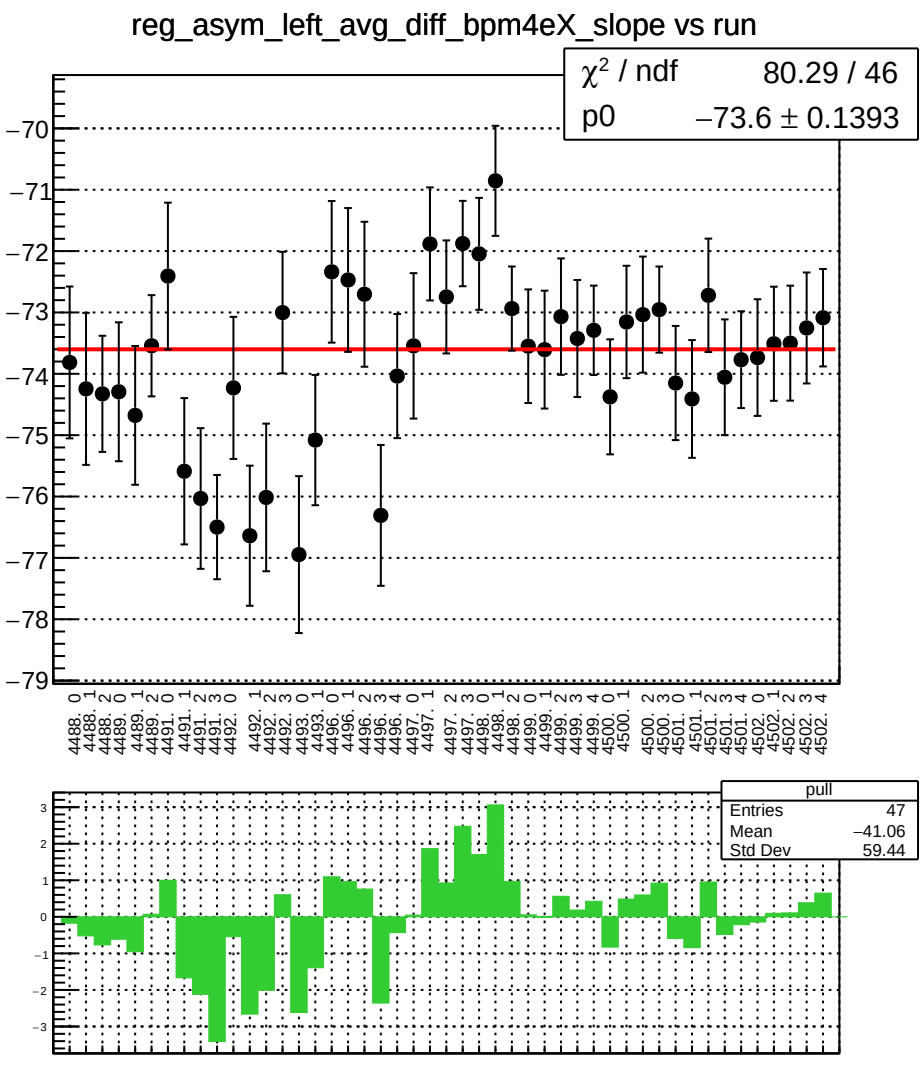

pull1D
Entries 47
Mean 1.929
Std Dev 3.313

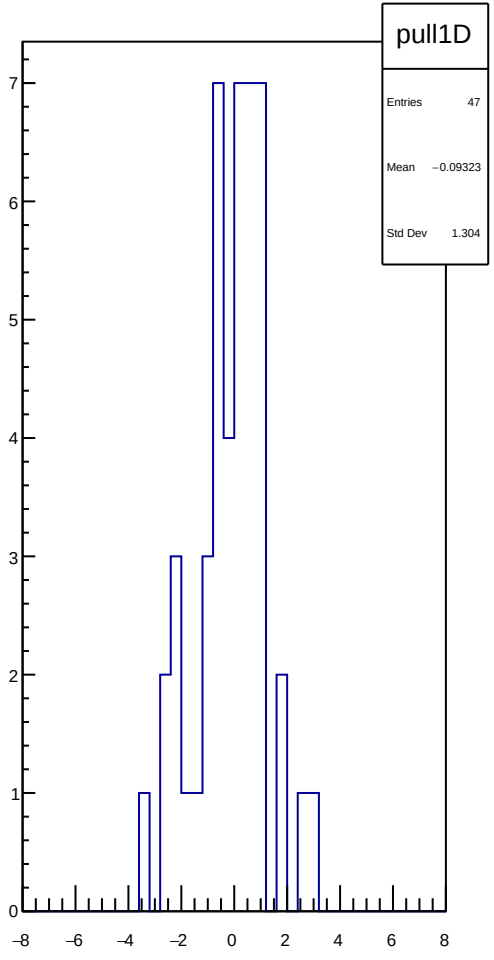

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 46.85 / 46
p0 7.836 ± 0.1536
pull
Entries 47
Mean −70.65
Std Dev 99.54
pull1D
Entries 47
Mean −0.03466
Std Dev 0.9978

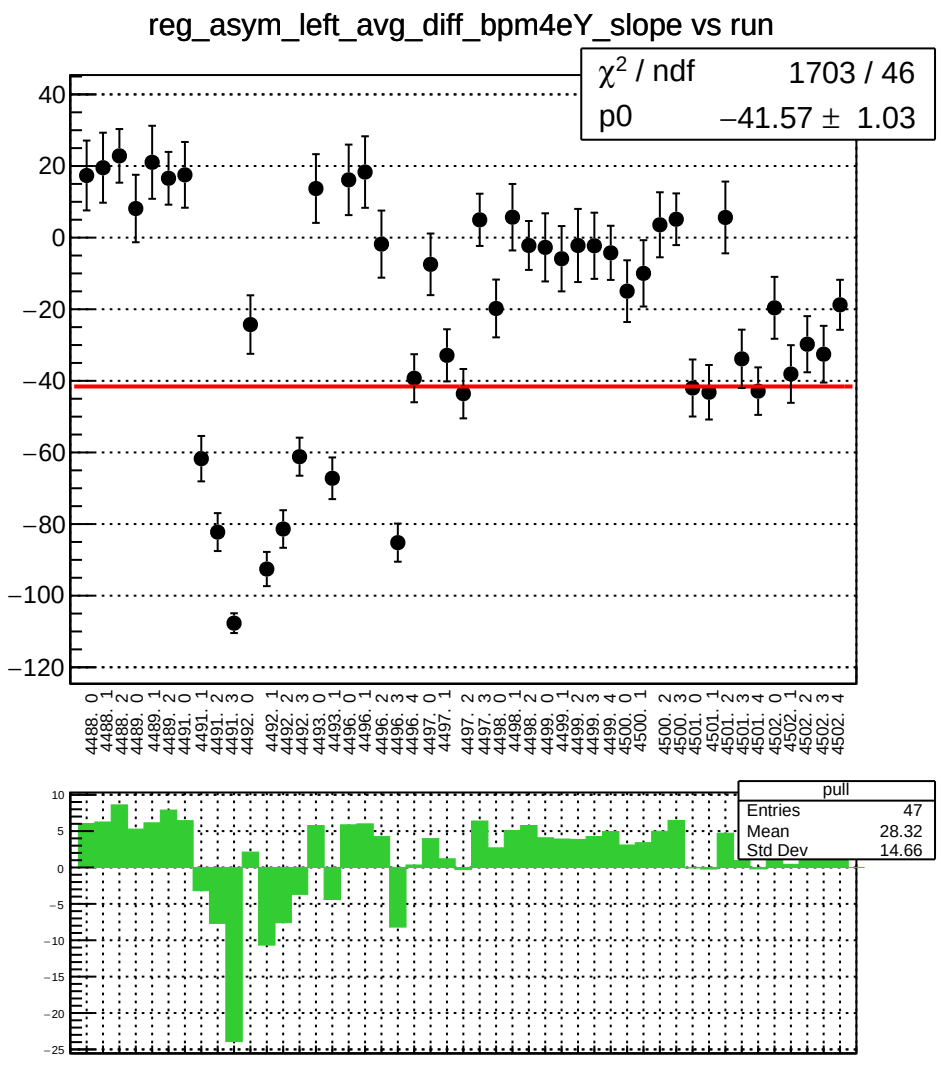

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.72 / 46
p0 28.48 ± 0.8246
pull
Entries 47
Mean −127.9
Std Dev 147.6
pull1D
Entries 47
Mean 0.05427
Std Dev 0.9955

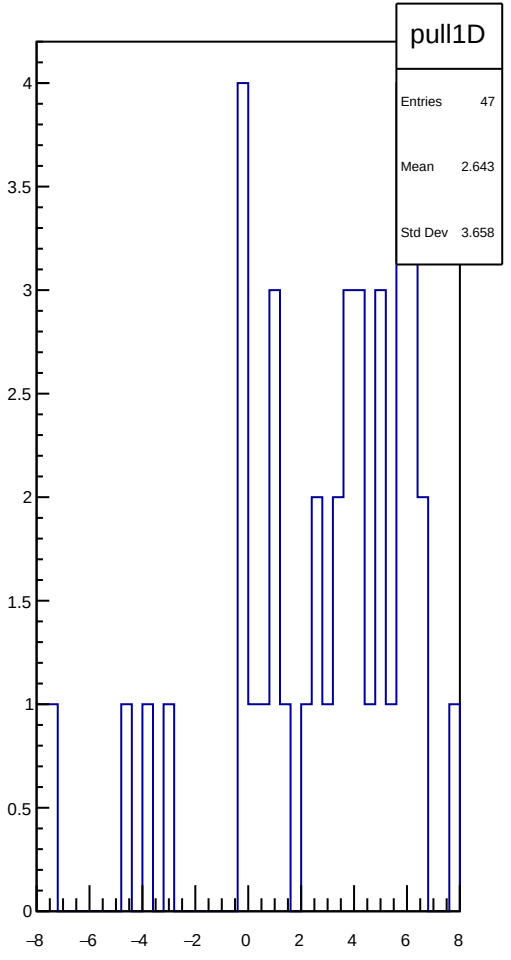

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 1269 / 46
p0 35.42 ± 0.9197
pull
Entries 47
Mean 28.22
Std Dev 16.15

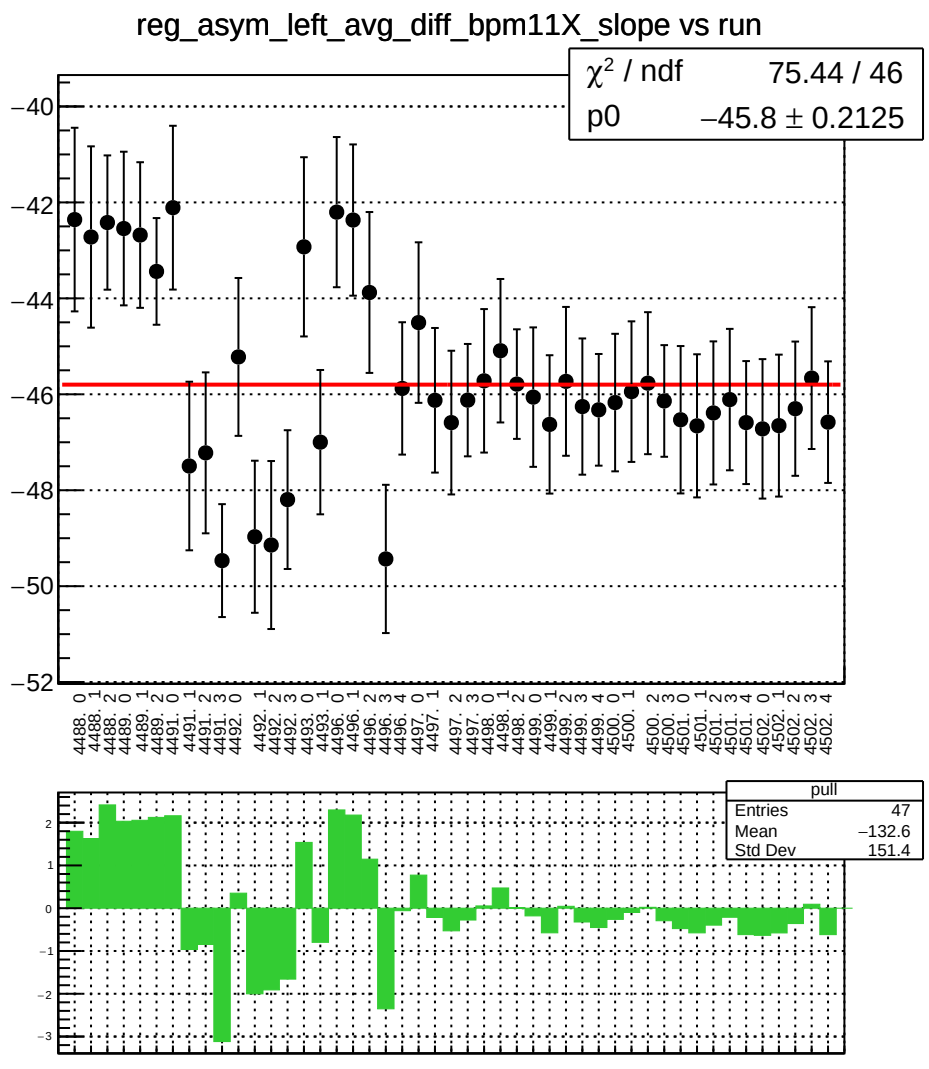

pull1D
Entries 47
Mean −1.986
Std Dev 3.321

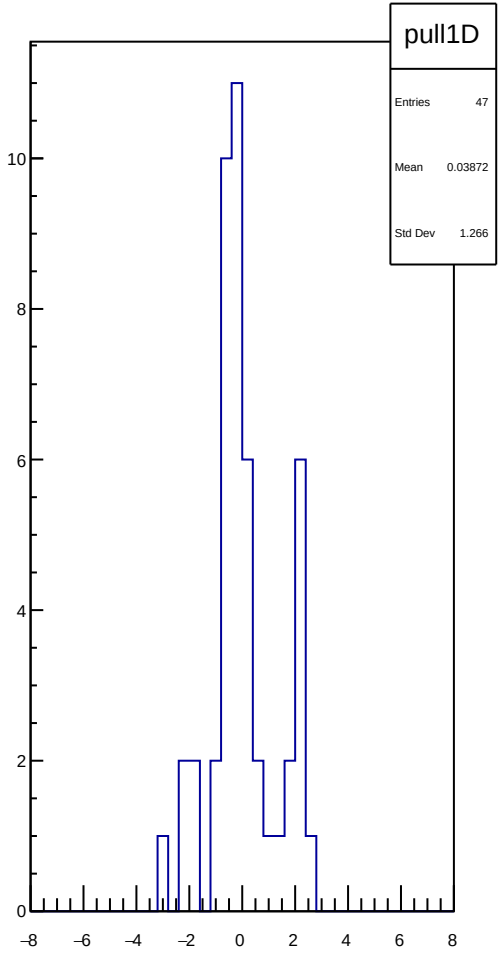

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.29 / 46
p0 −73.6 ± 0.1393
pull
Entries 47
Mean −41.06
Std Dev 59.44

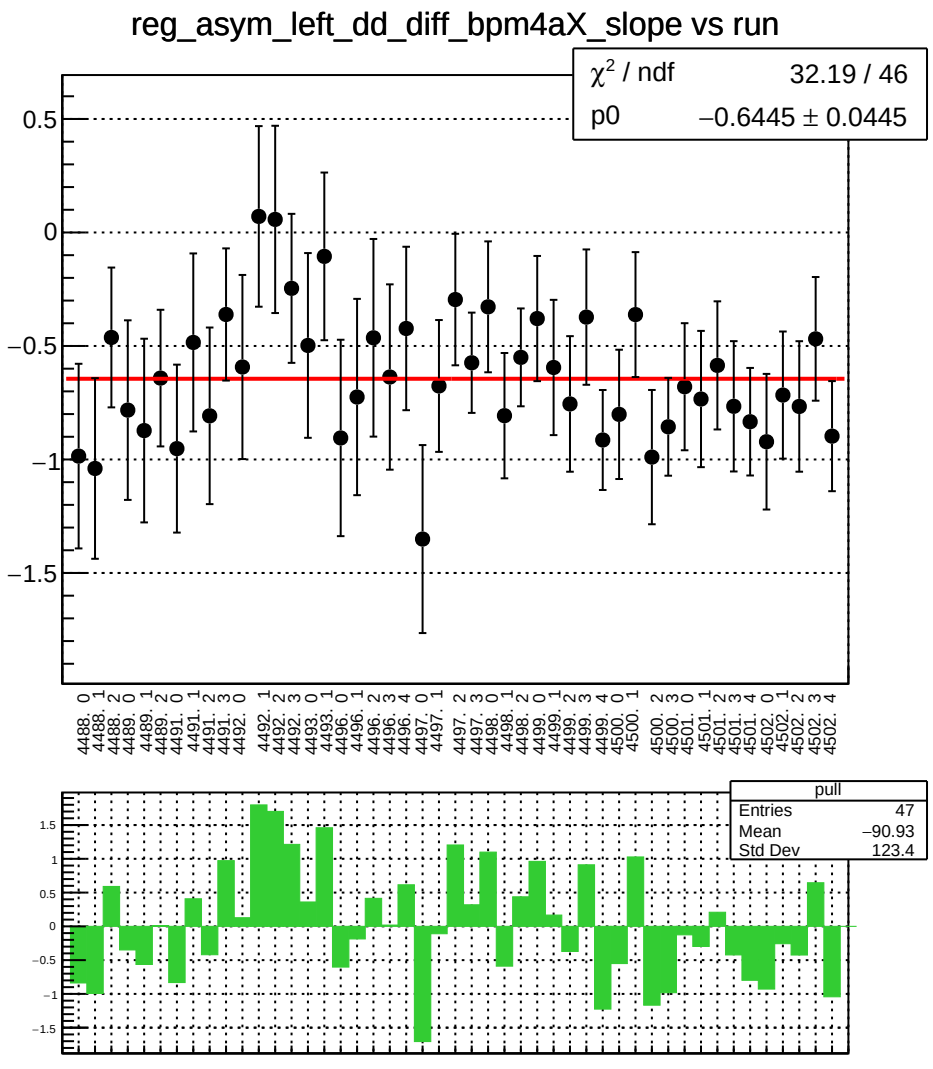

pull1D
Entries 47
Mean −0.09323
Std Dev 1.304

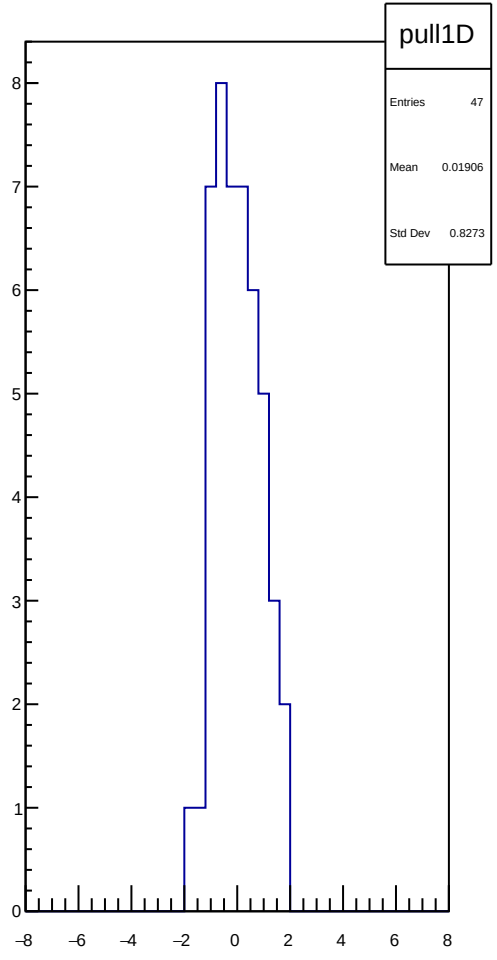

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 1703 / 46
p0 −41.57 ± 1.03
pull
Entries 47
Mean 28.32
Std Dev 14.66

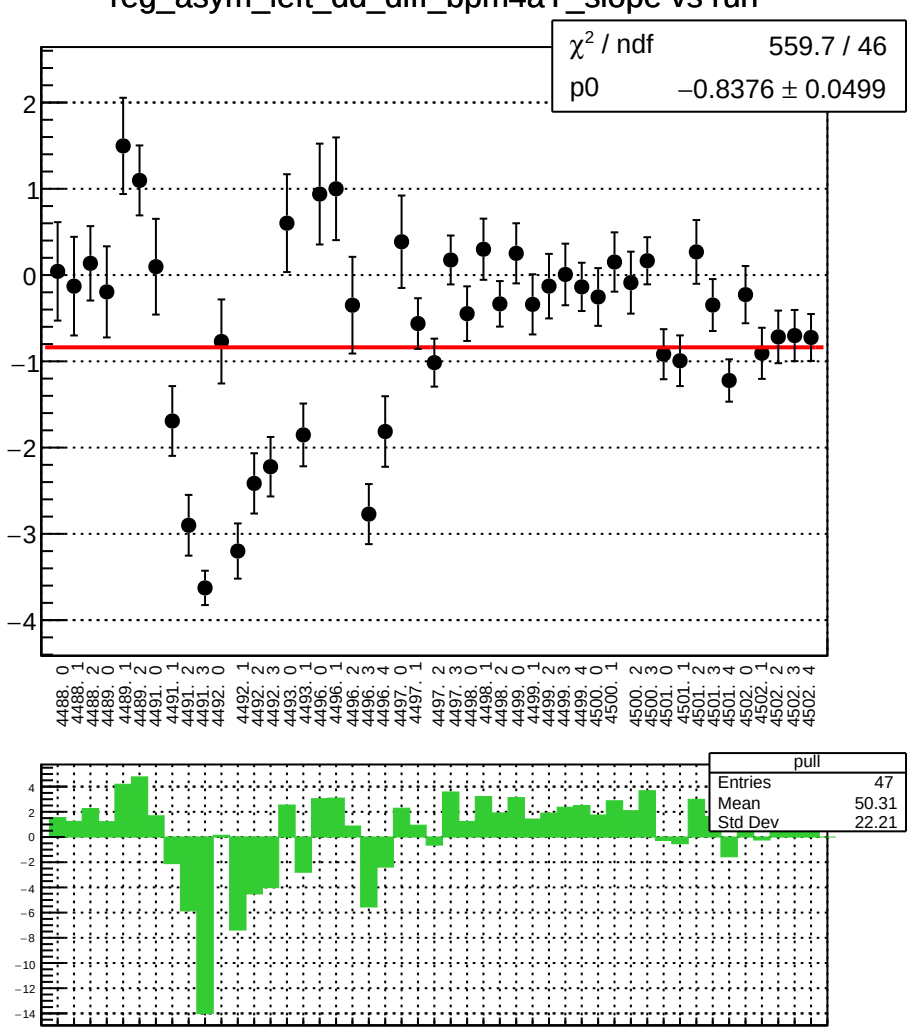

pull1D
Entries 47
Mean 2.643
Std Dev 3.658

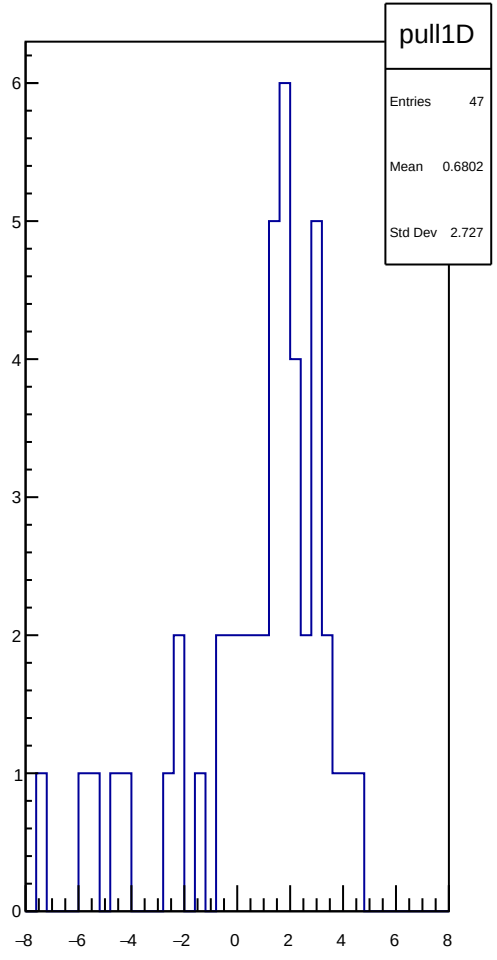

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 75.44 / 46
p0 −45.8 ± 0.2125
pull
Entries 47
Mean −132.6
Std Dev 151.4

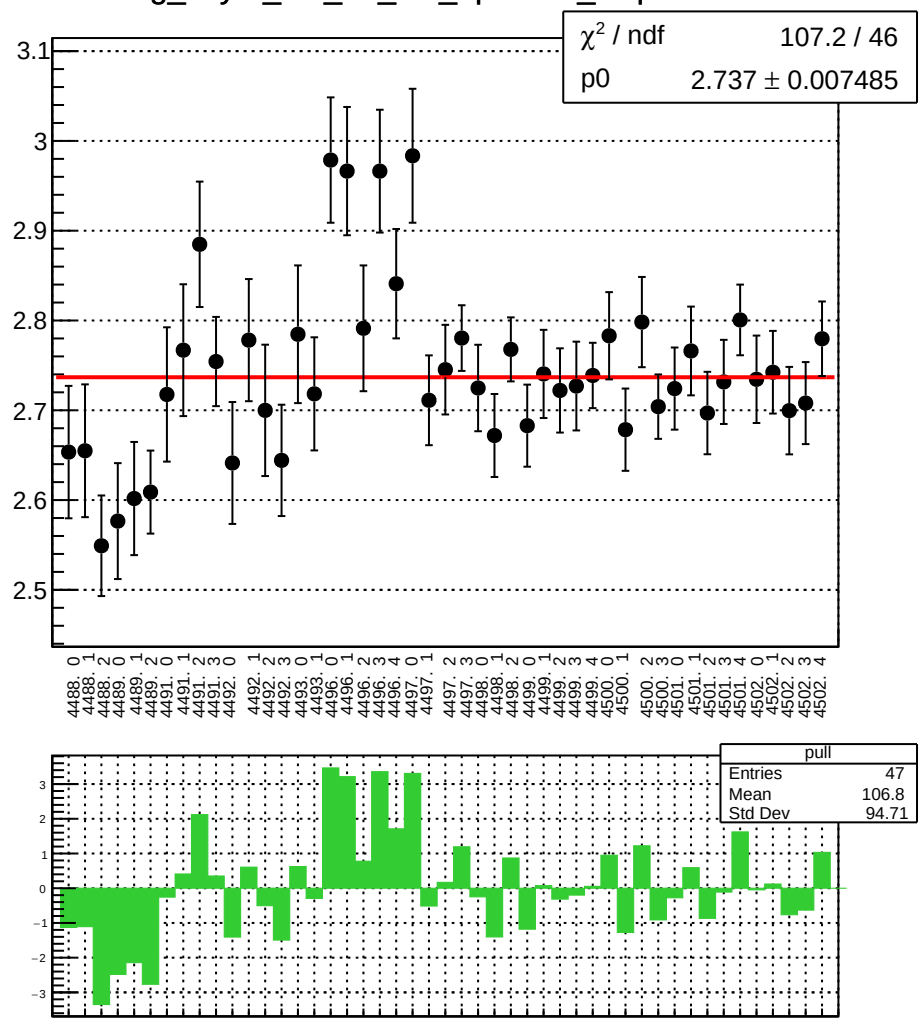

pull1D
Entries 47
Mean 0.03872
Std Dev 1.266

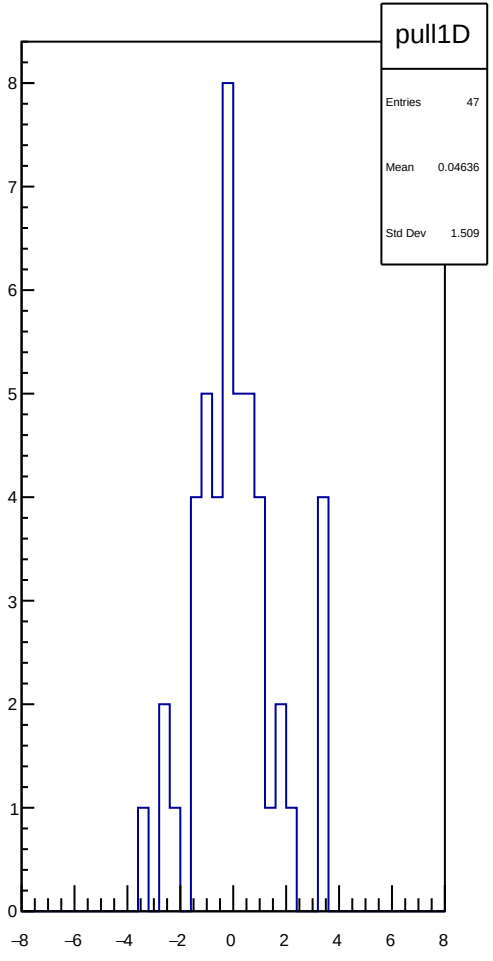

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.19 / 46
p0 −0.6445 ± 0.0445
0.5
0
−0.5
−1
−1.5
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −90.93
Std Dev 123.4
1.5
1
0.5
0
−0.5
−1
−1.5

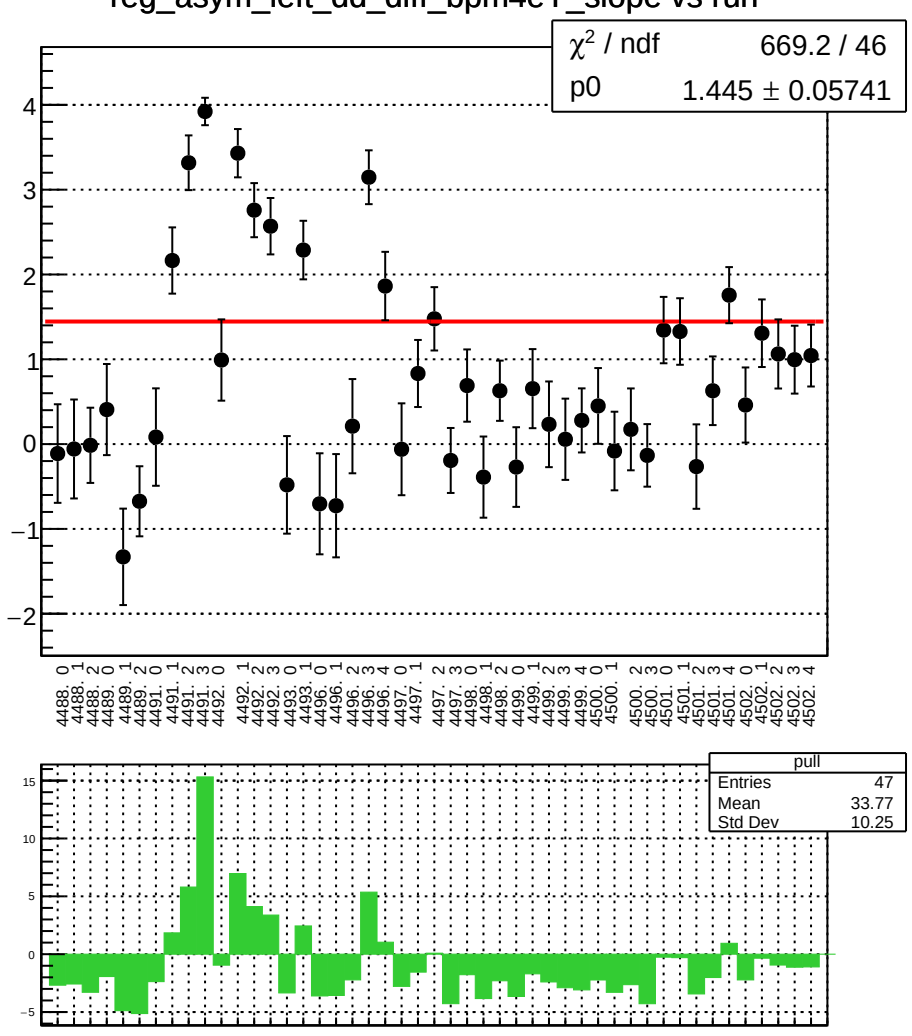

pull1D
Entries 47
Mean 0.01906
Std Dev 0.8273
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

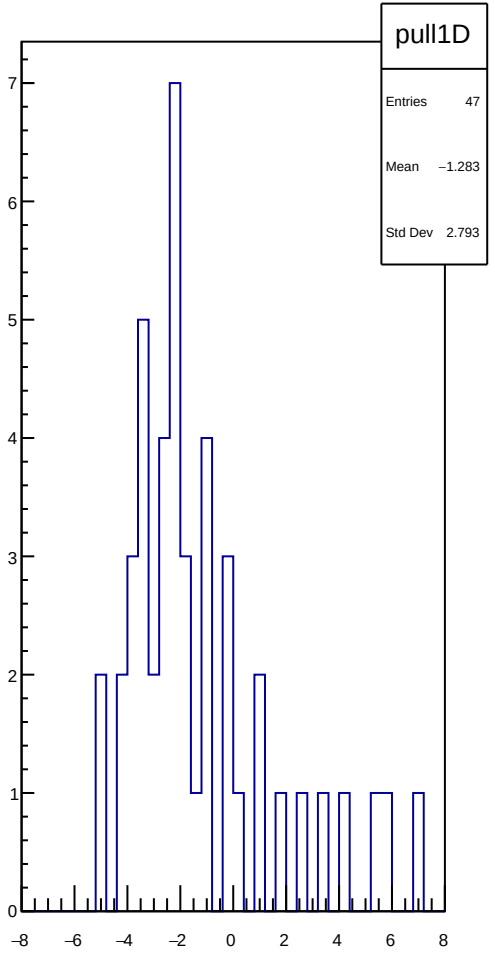

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 559.7 / 46
p0 −0.8376 ± 0.0499
pull
Entries 47
Mean 50.31
Std Dev 22.21

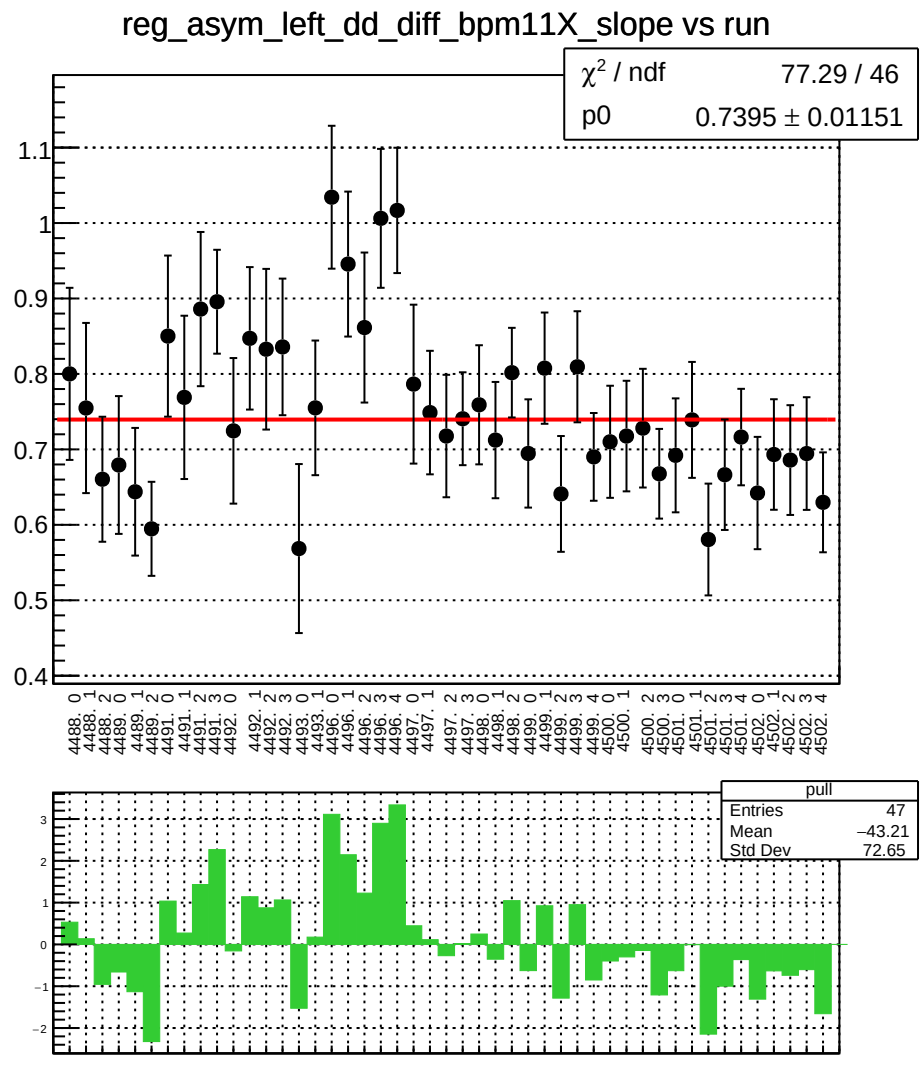

pull1D
Entries 47
Mean 0.6802
Std Dev 2.727

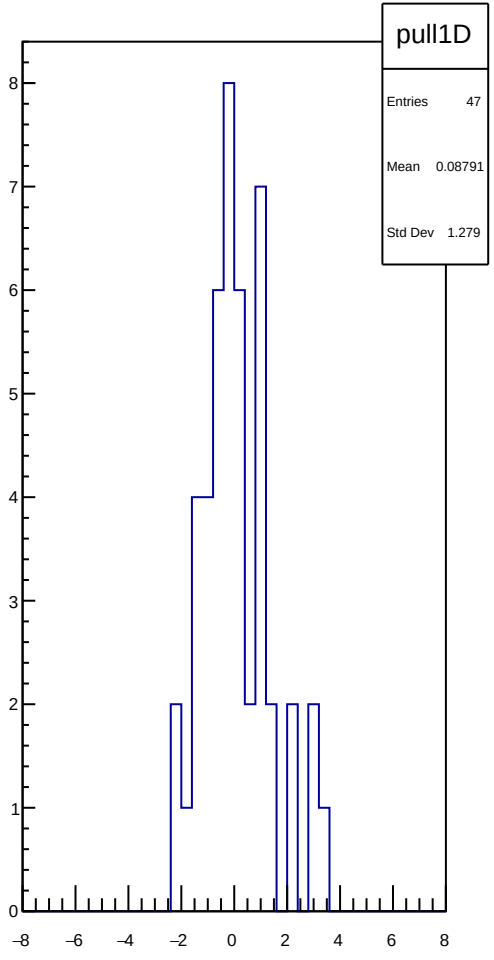

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.2 / 46
p0 2.737 ± 0.007485
pull
Entries 47
Mean 106.8
Std Dev 94.71

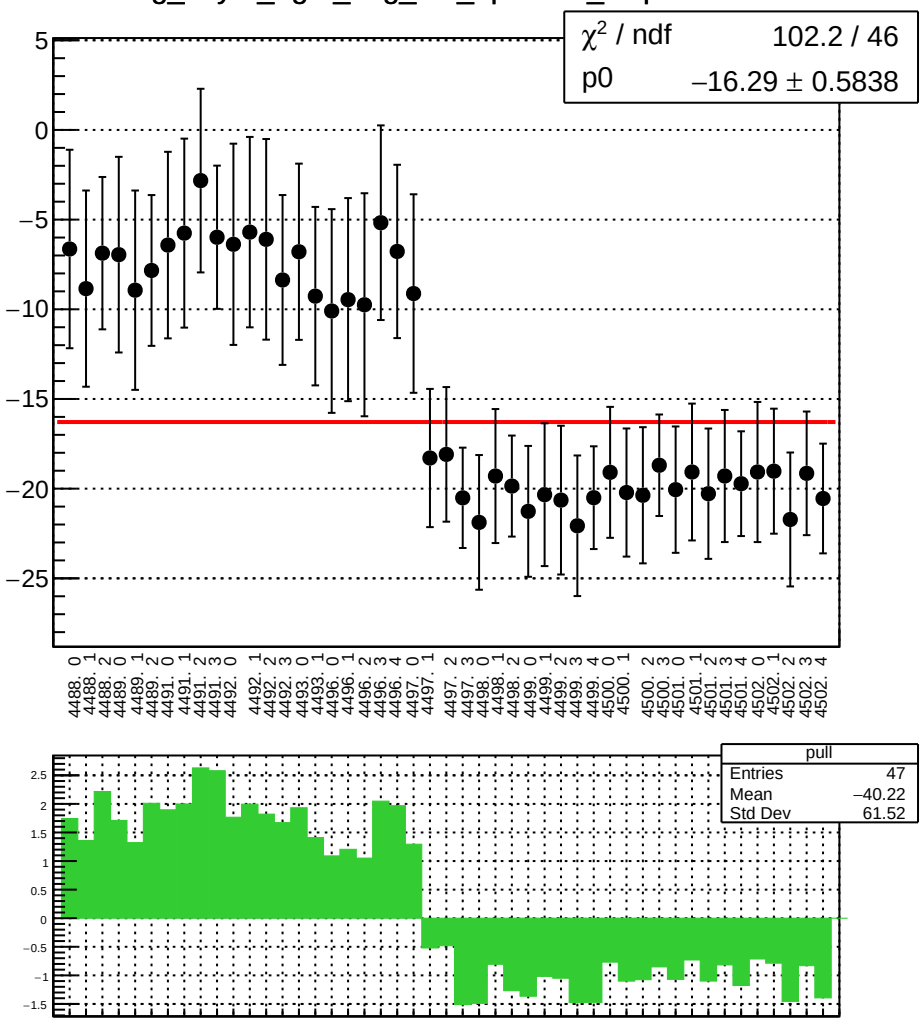

pull1D
Entries 47
Mean 0.04636
Std Dev 1.509

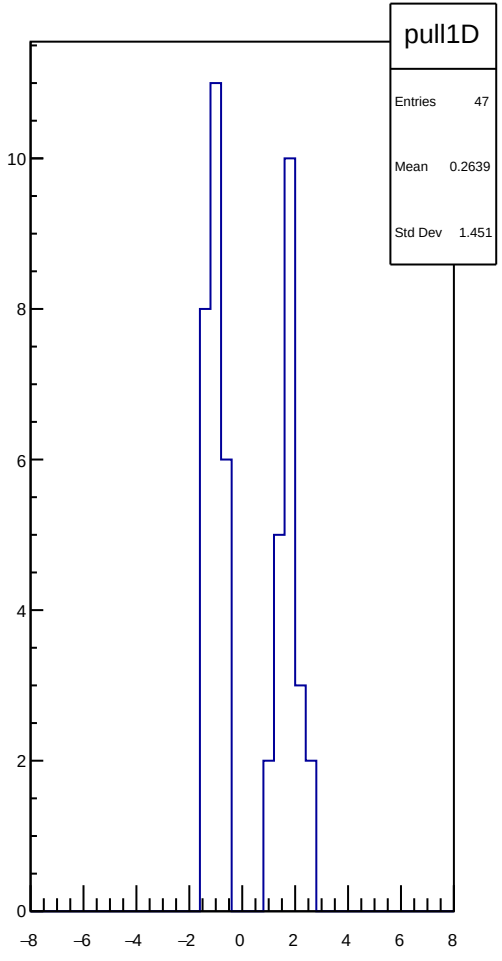

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 669.2 / 46
p0 1.445 ± 0.05741
pull
Entries 47
Mean 33.77
Std Dev 10.25

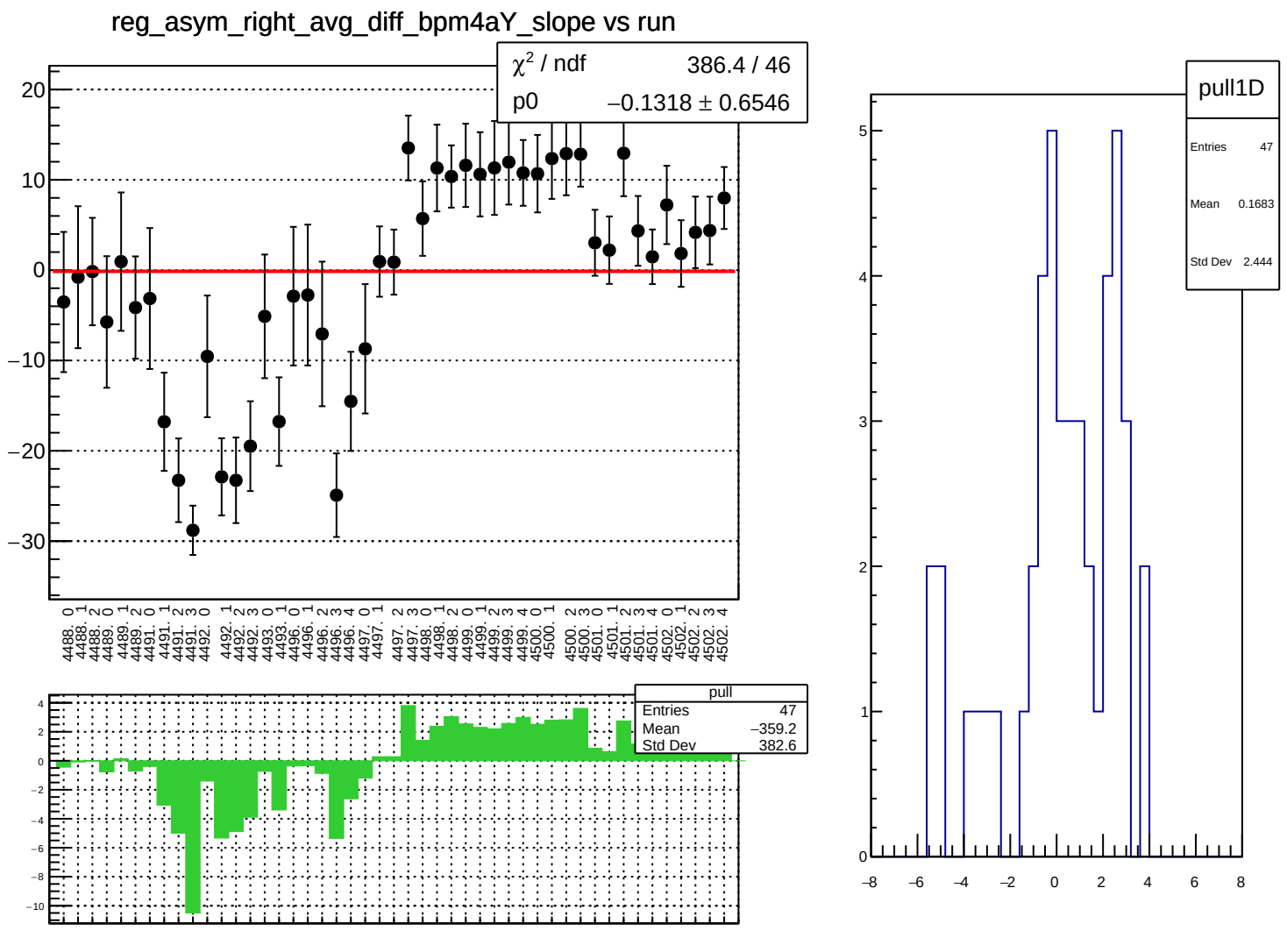

pull1D
Entries 47
Mean −1.283
Std Dev 2.793

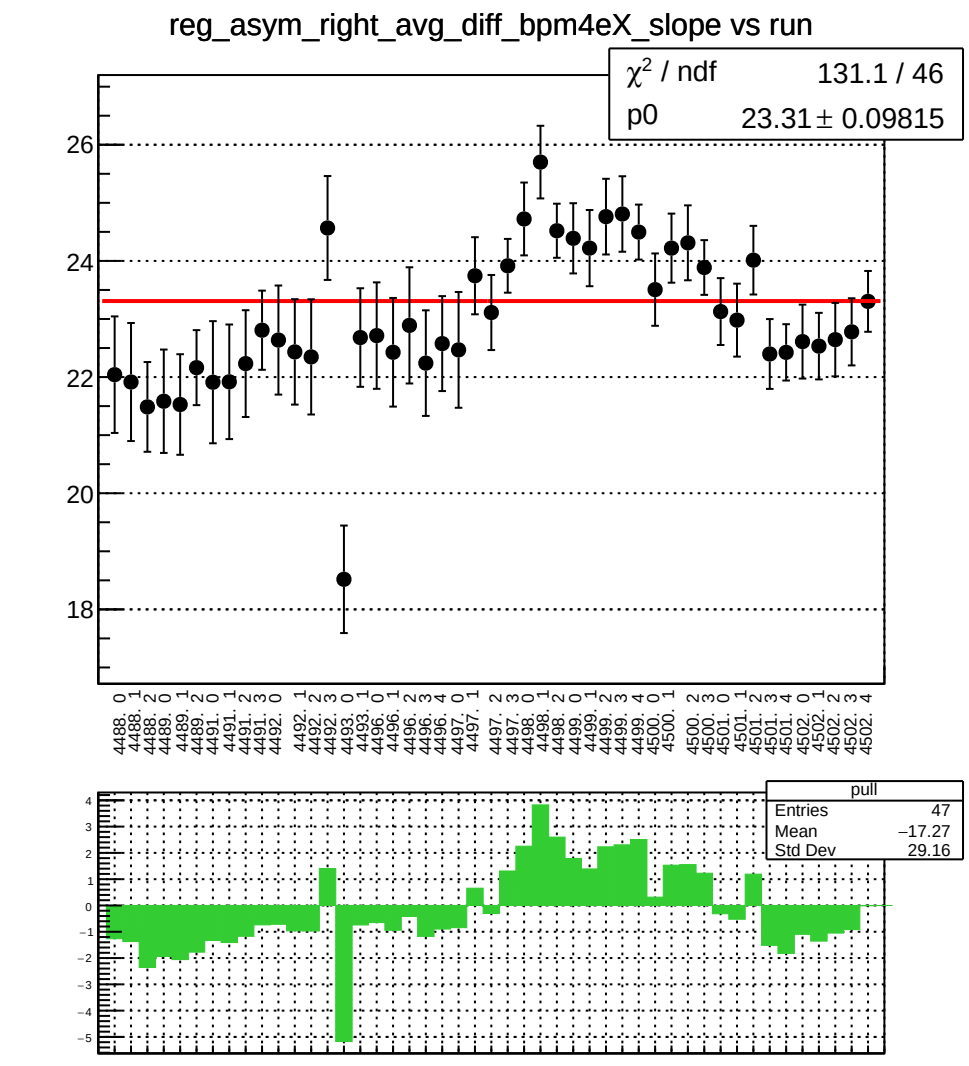

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 77.29 / 46
p0 0.7395 ± 0.01151
pull
Entries 47
Mean −43.21
Std Dev 72.65

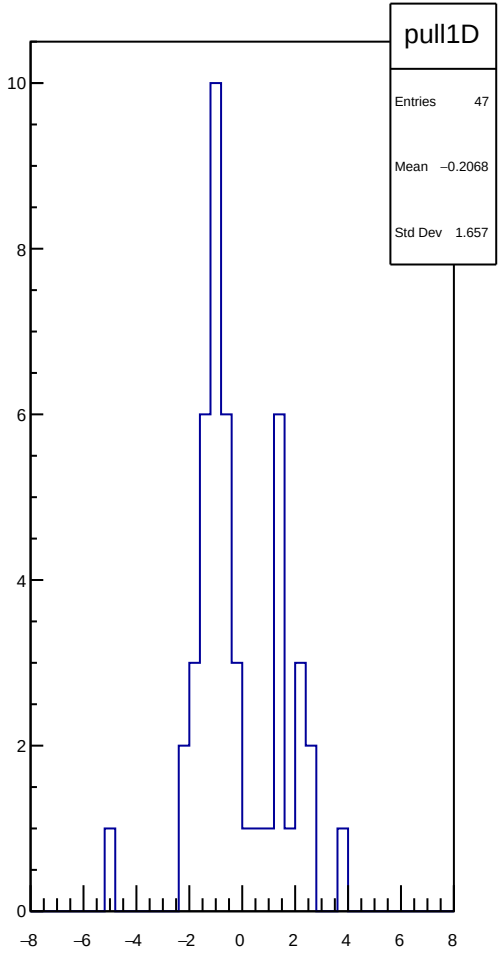

pull1D
Entries 47
Mean 0.08791
Std Dev 1.279

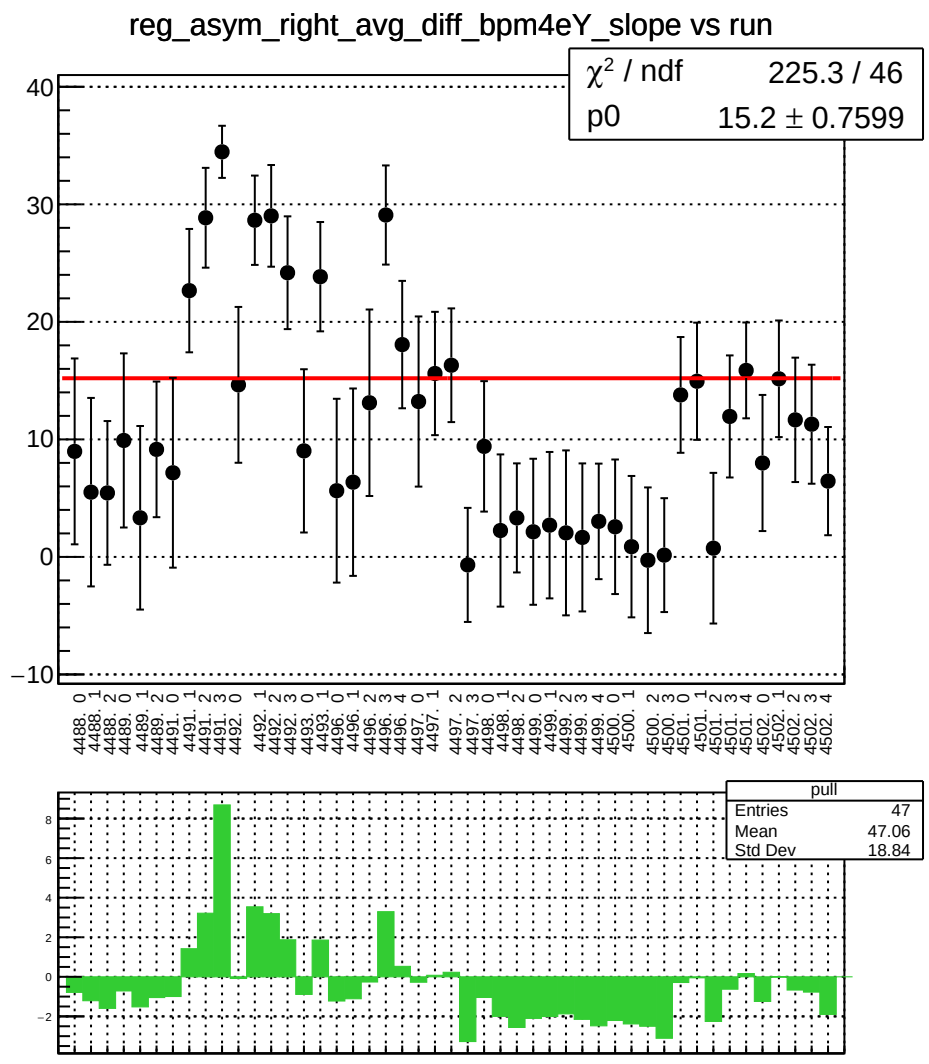

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 102.2 / 46
p0 −16.29 ± 0.5838
pull
Entries 47
Mean −40.22
Std Dev 61.52

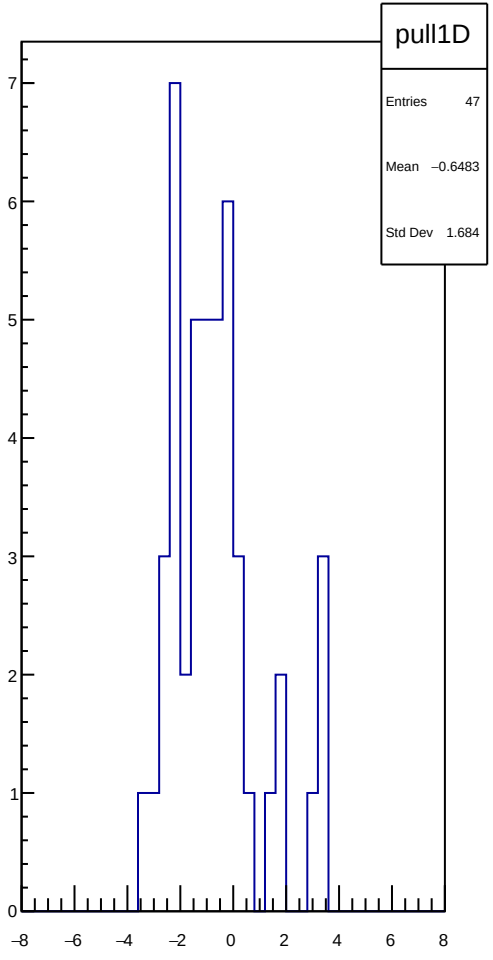

pull1D
Entries 47
Mean 0.2639
Std Dev 1.451

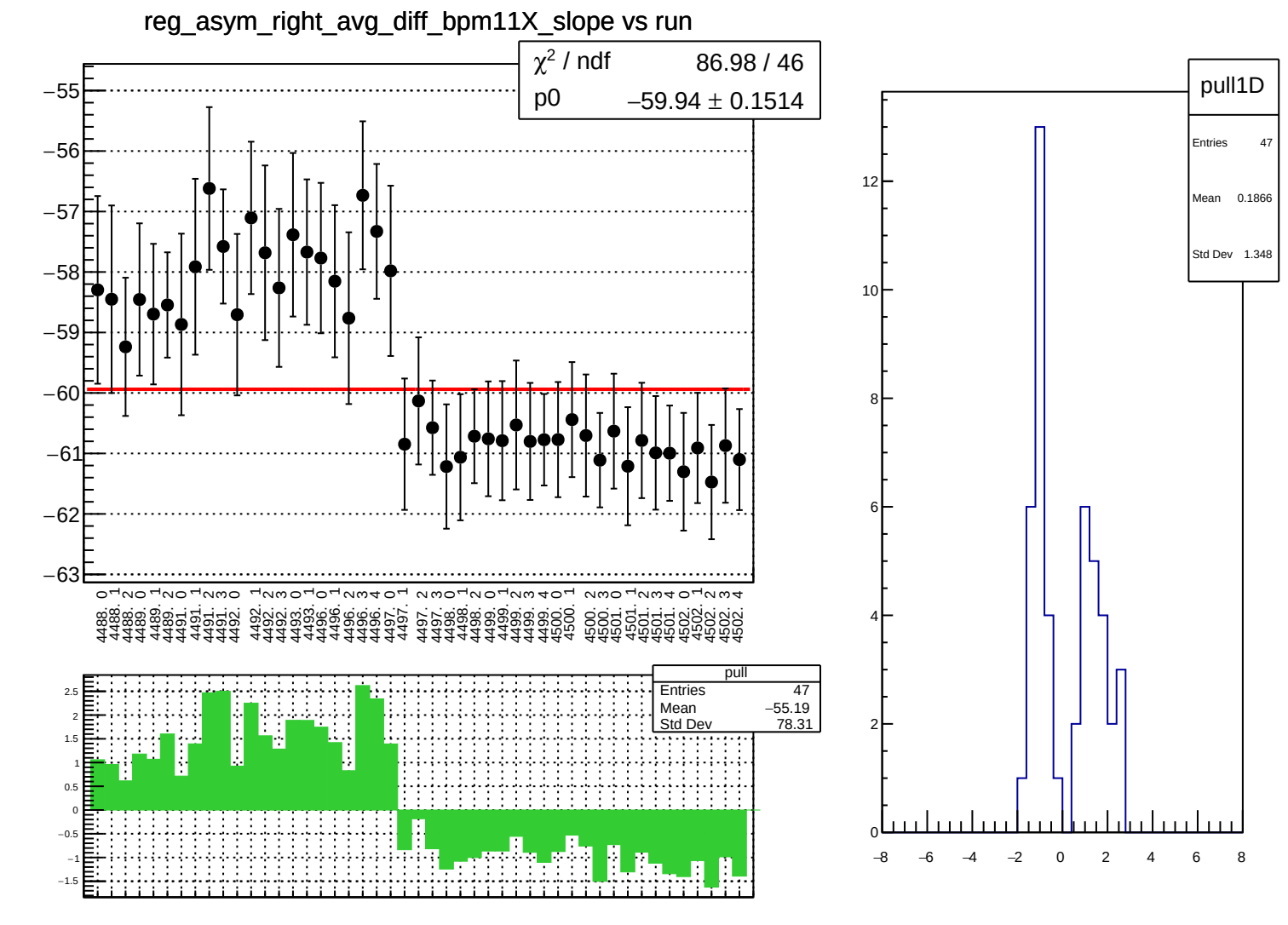

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 386.4 / 46
p0 −0.1318 ± 0.6546
pull
Entries 47
Mean −359.2
Std Dev 382.6
pull1D
Entries 47
Mean 0.1683
Std Dev 2.444

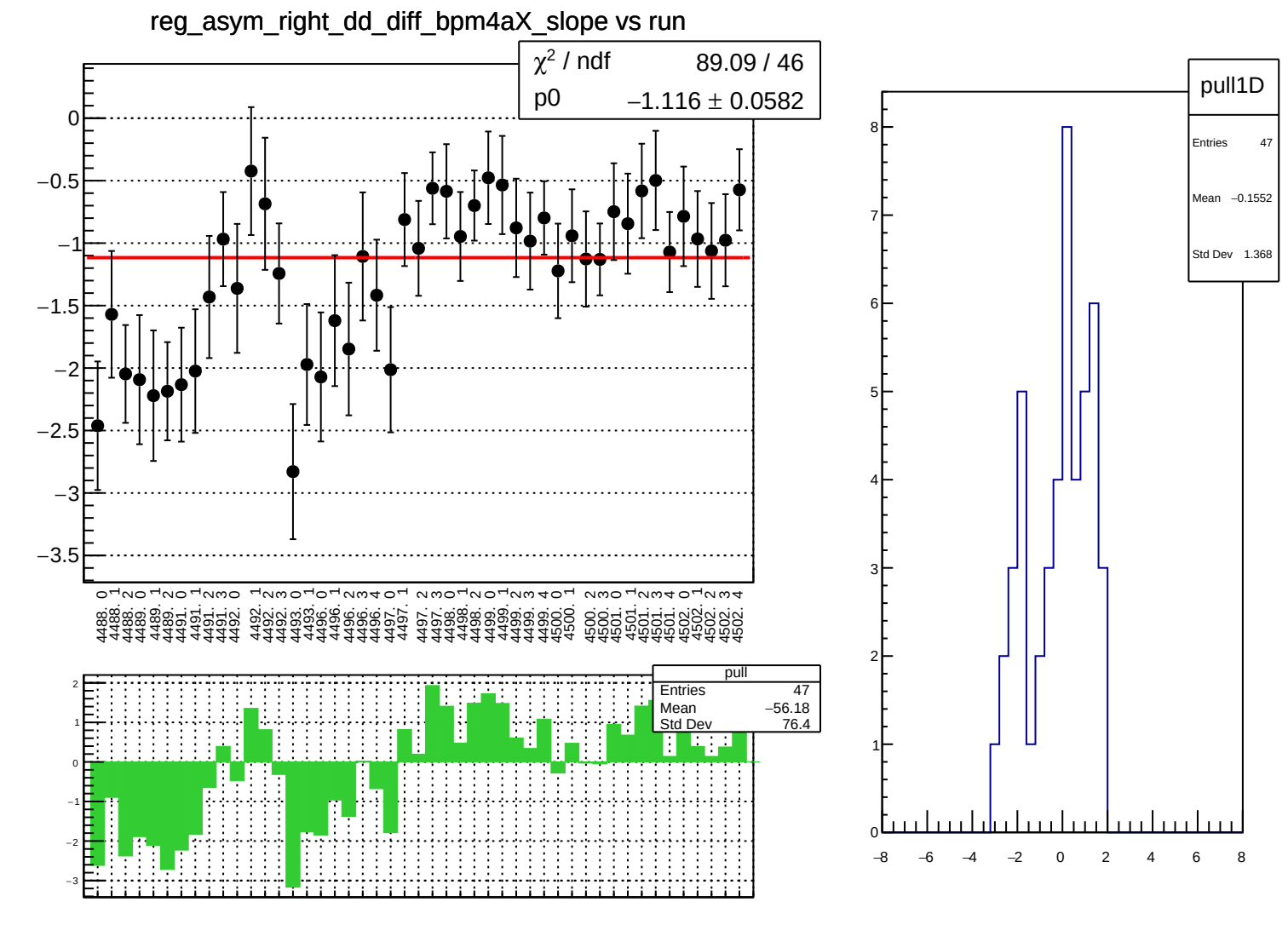

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.1 / 46
p0 23.31 ± 0.09815
pull
Entries 47
Mean −17.27
Std Dev 29.16

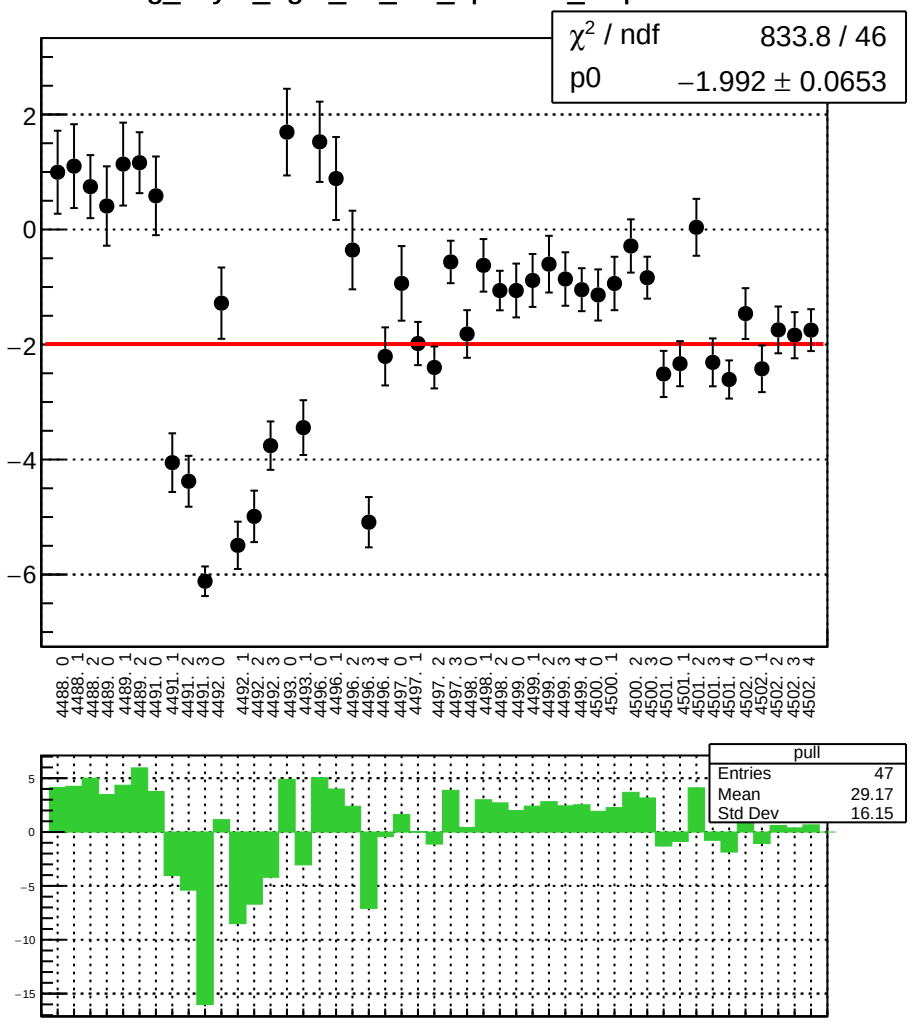

pull1D
Entries 47
Mean −0.2068
Std Dev 1.657

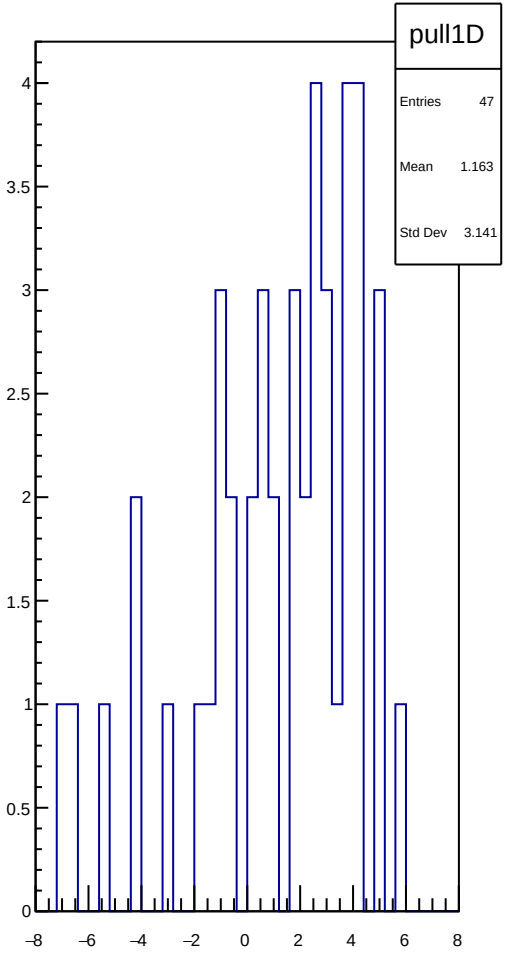

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 225.3 / 46
p0 15.2 ± 0.7599
pull
Entries 47
Mean 47.06
Std Dev 18.84

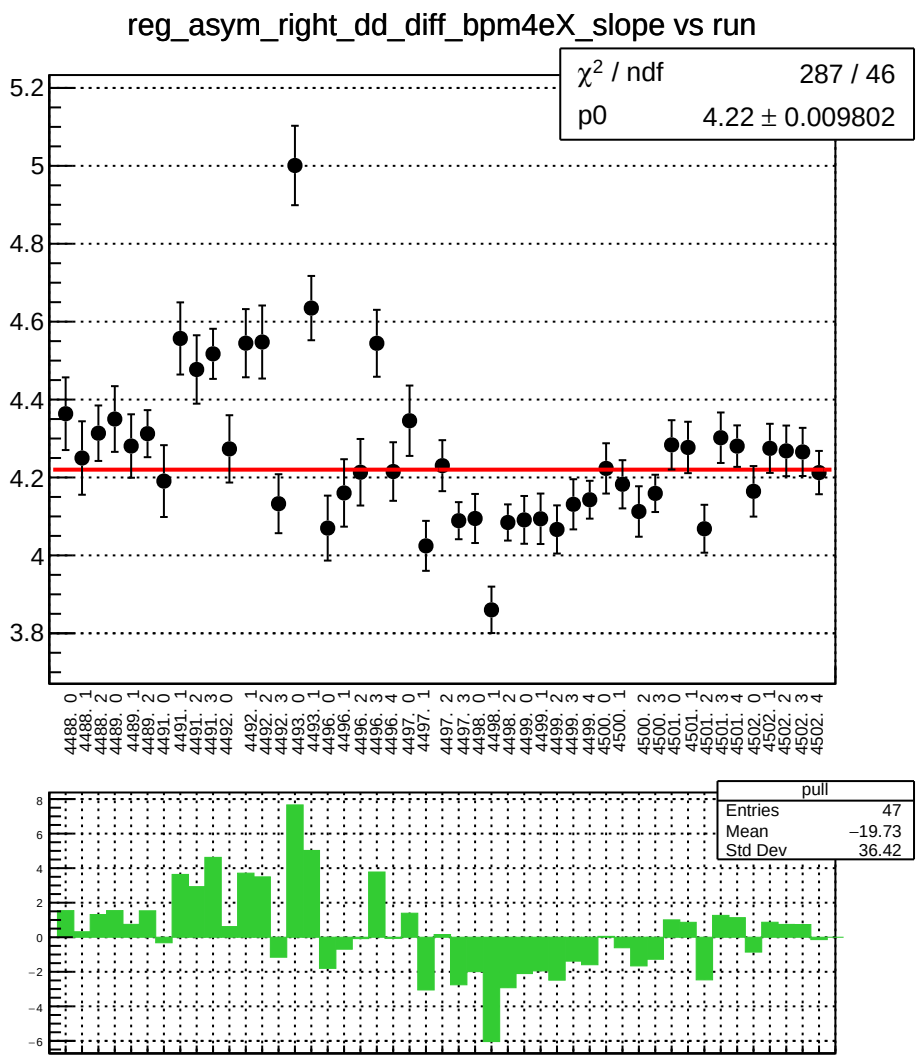

pull1D
Entries 47
Mean −0.6483
Std Dev 1.684

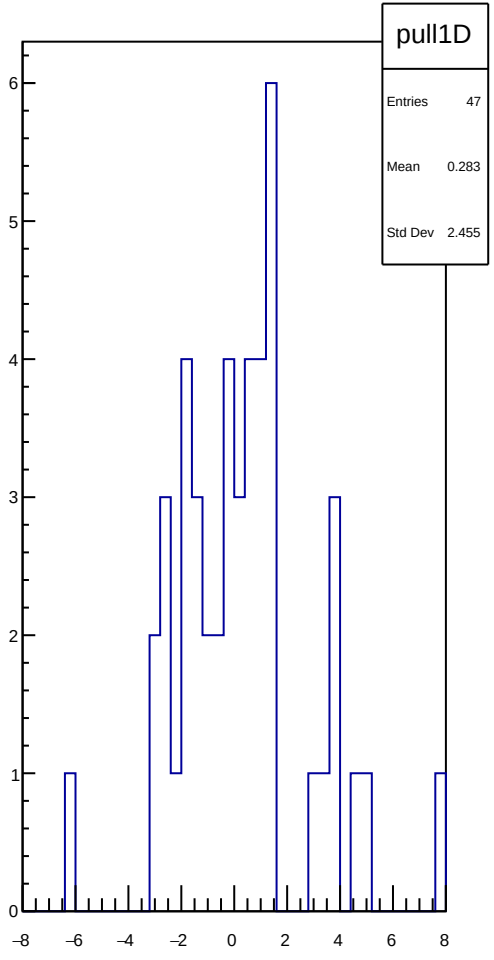

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 86.98 / 46
p0 −59.94 ± 0.1514
pull
Entries 47
Mean −55.19
Std Dev 78.31
pull1D
Entries 47
Mean 0.1866
Std Dev 1.348

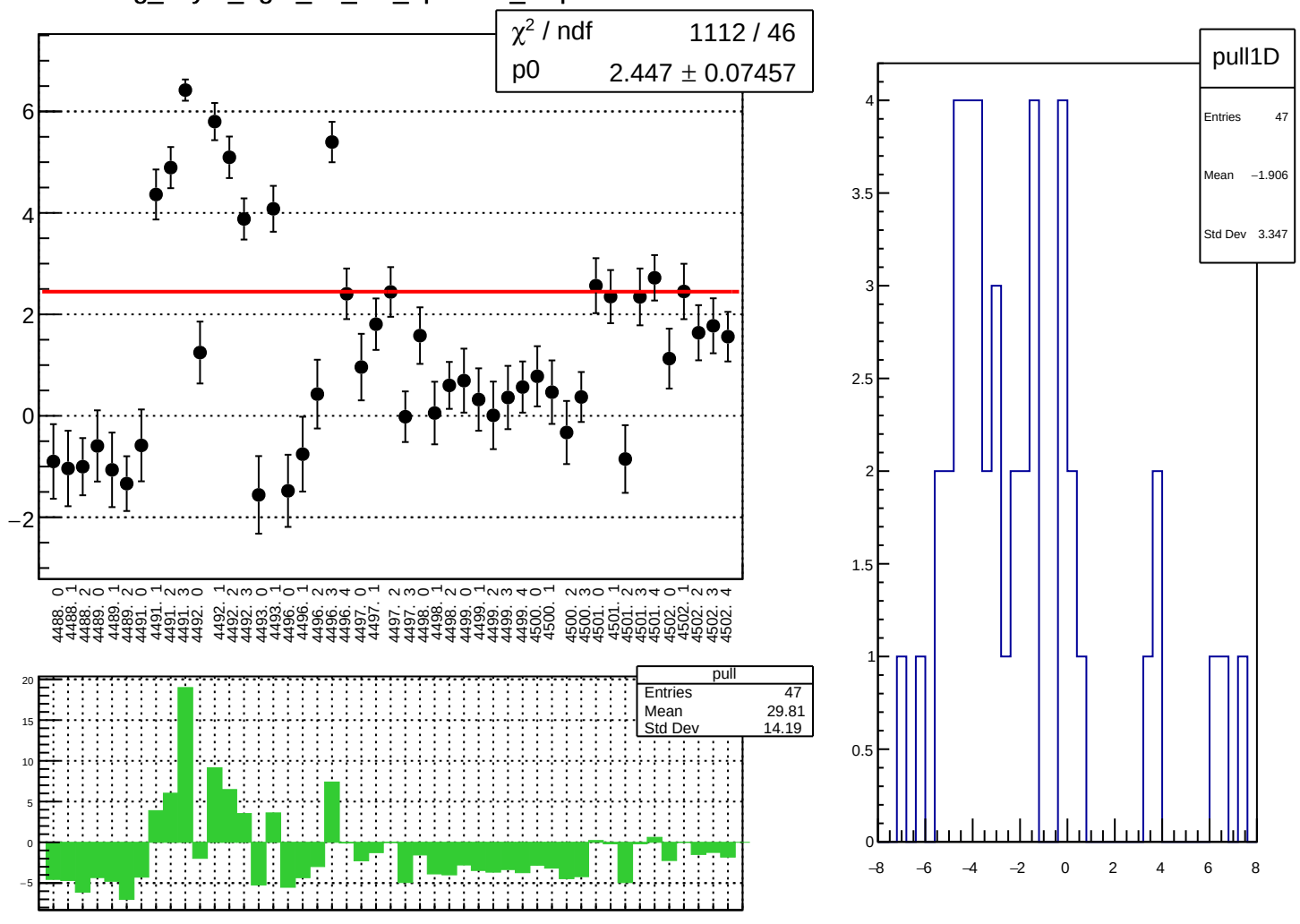

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 89.09 / 46
p0 −1.116 ± 0.0582
pull
Entries 47
Mean −56.18
Std Dev 76.4
pull1D
Entries 47
Mean −0.1552
Std Dev 1.368

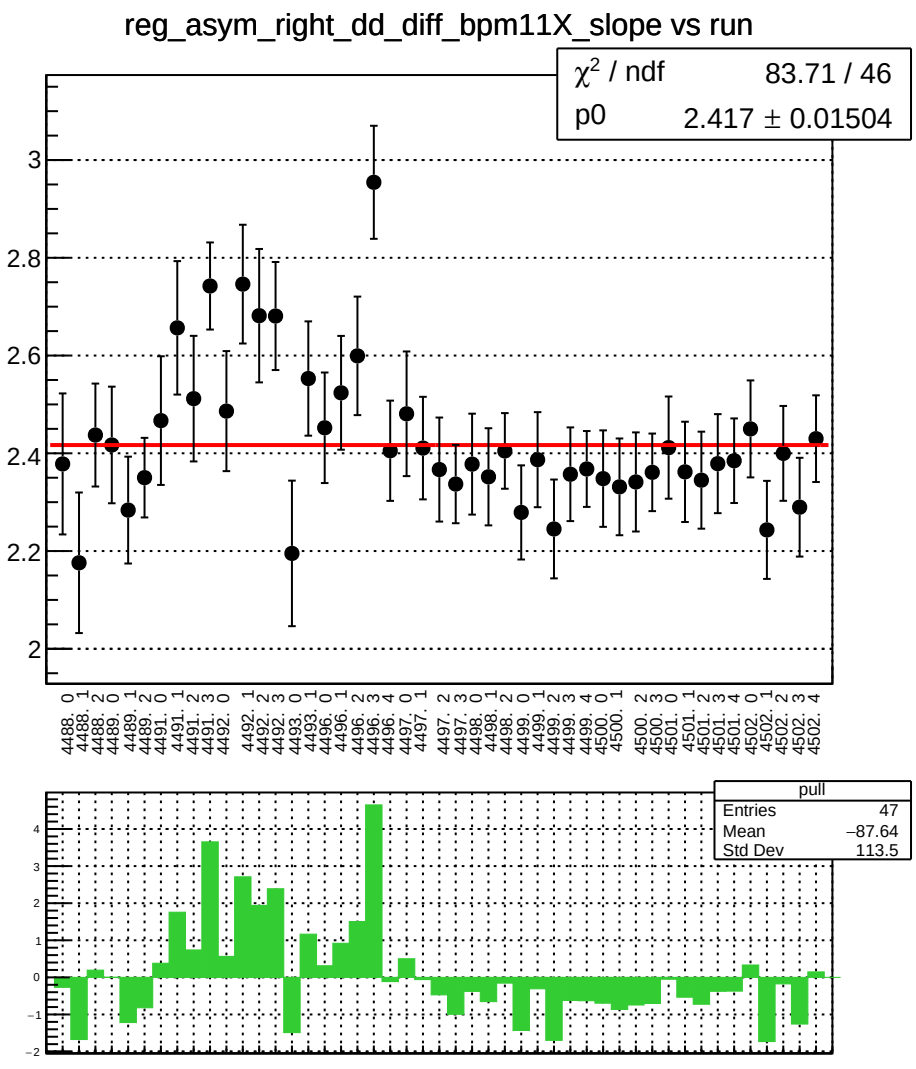

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 833.8 / 46
p0 −1.992 ± 0.0653
pull
Entries 47
Mean 29.17
Std Dev 16.15

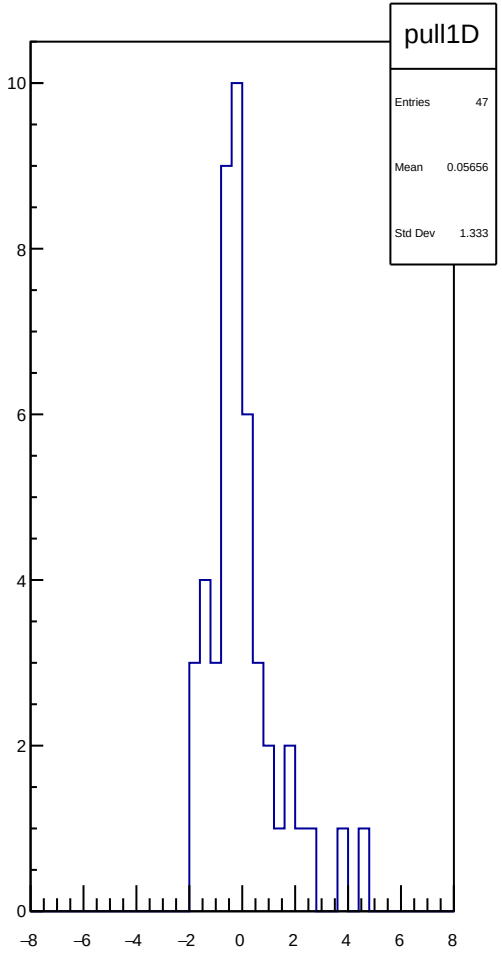

pull1D
Entries 47
Mean 1.163
Std Dev 3.141

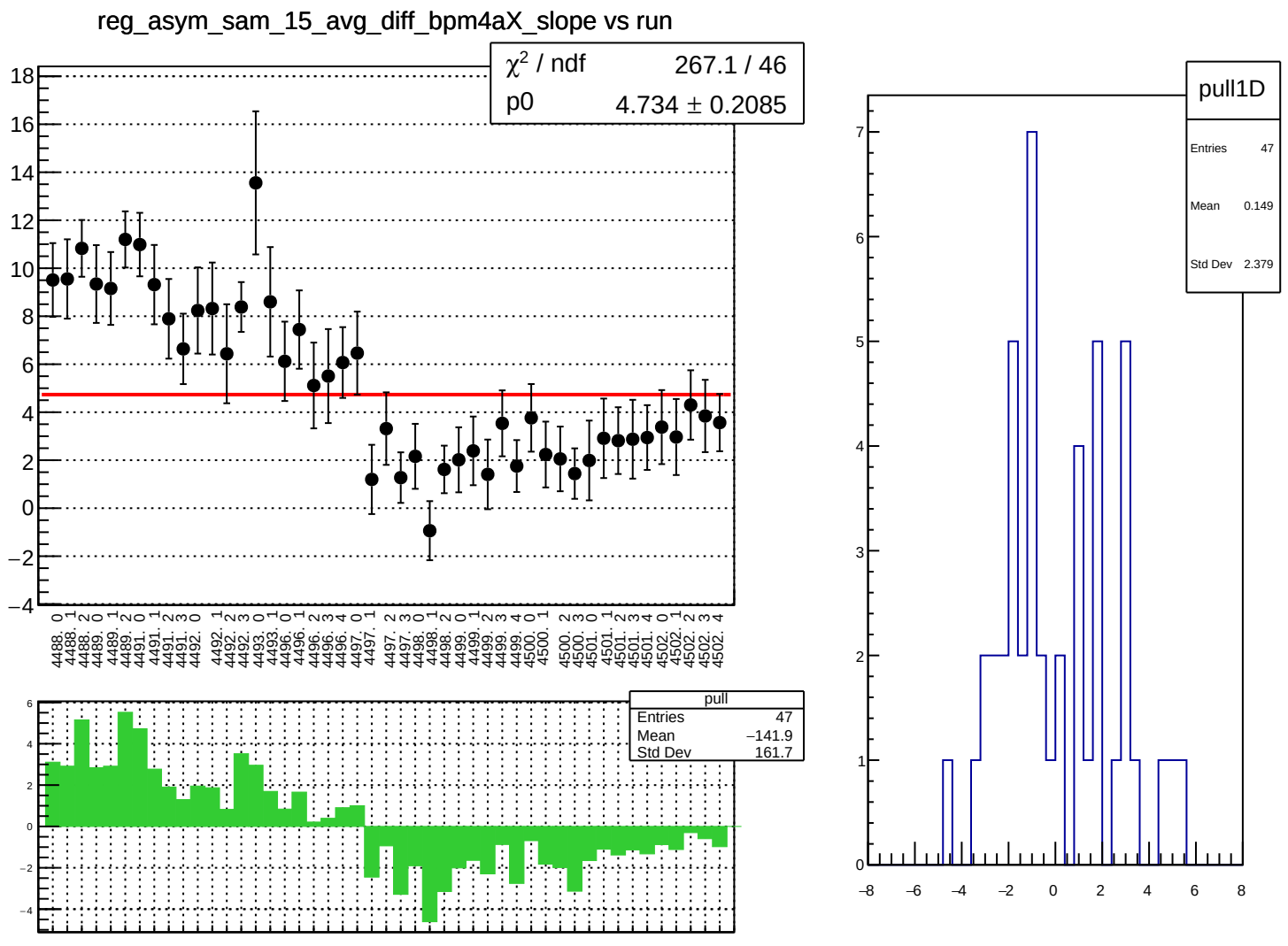

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 287 / 46
p0 4.22 ± 0.009802
pull
Entries 47
Mean −19.73
Std Dev 36.42

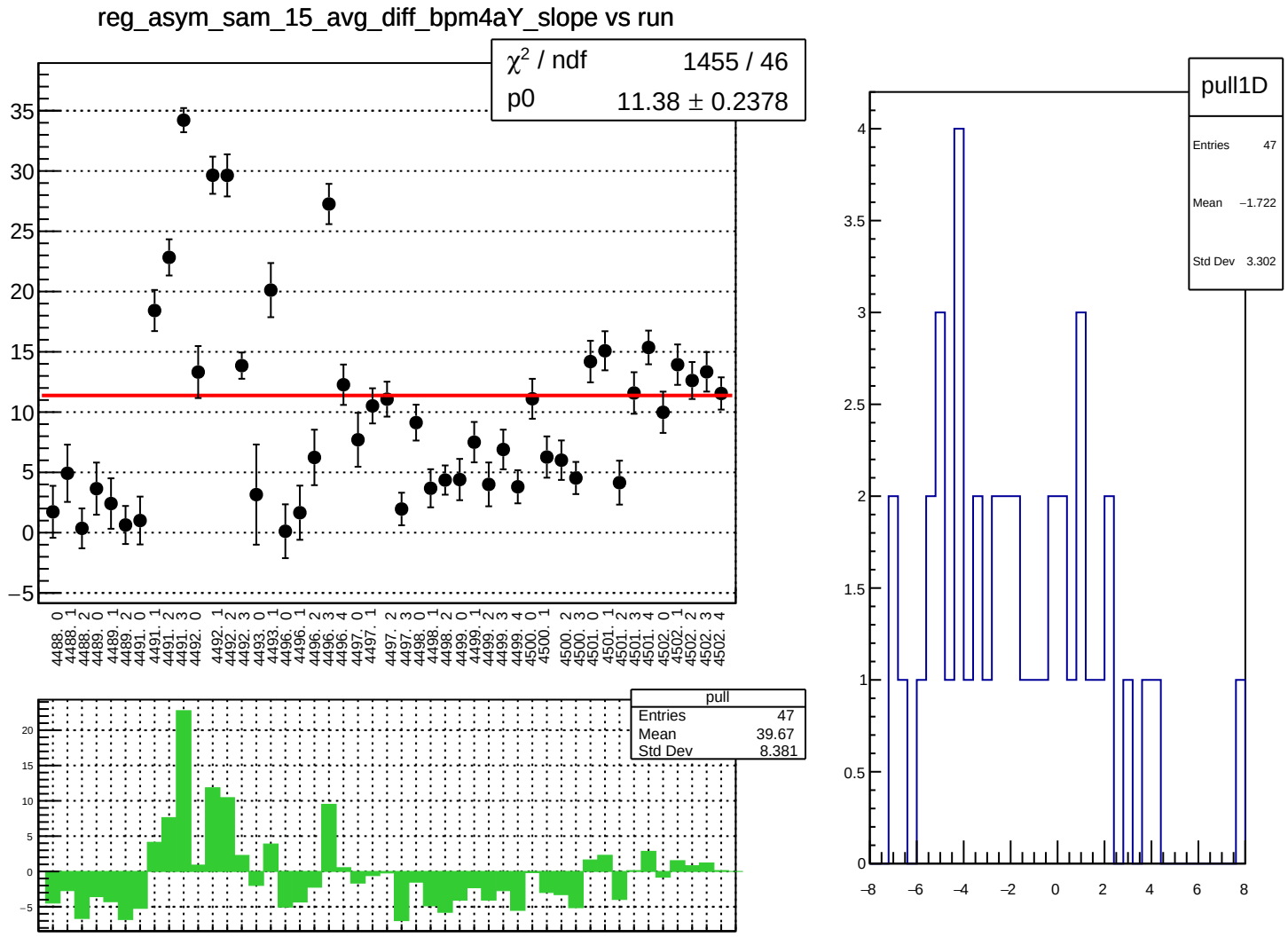

pull1D
Entries 47
Mean 0.283
Std Dev 2.455

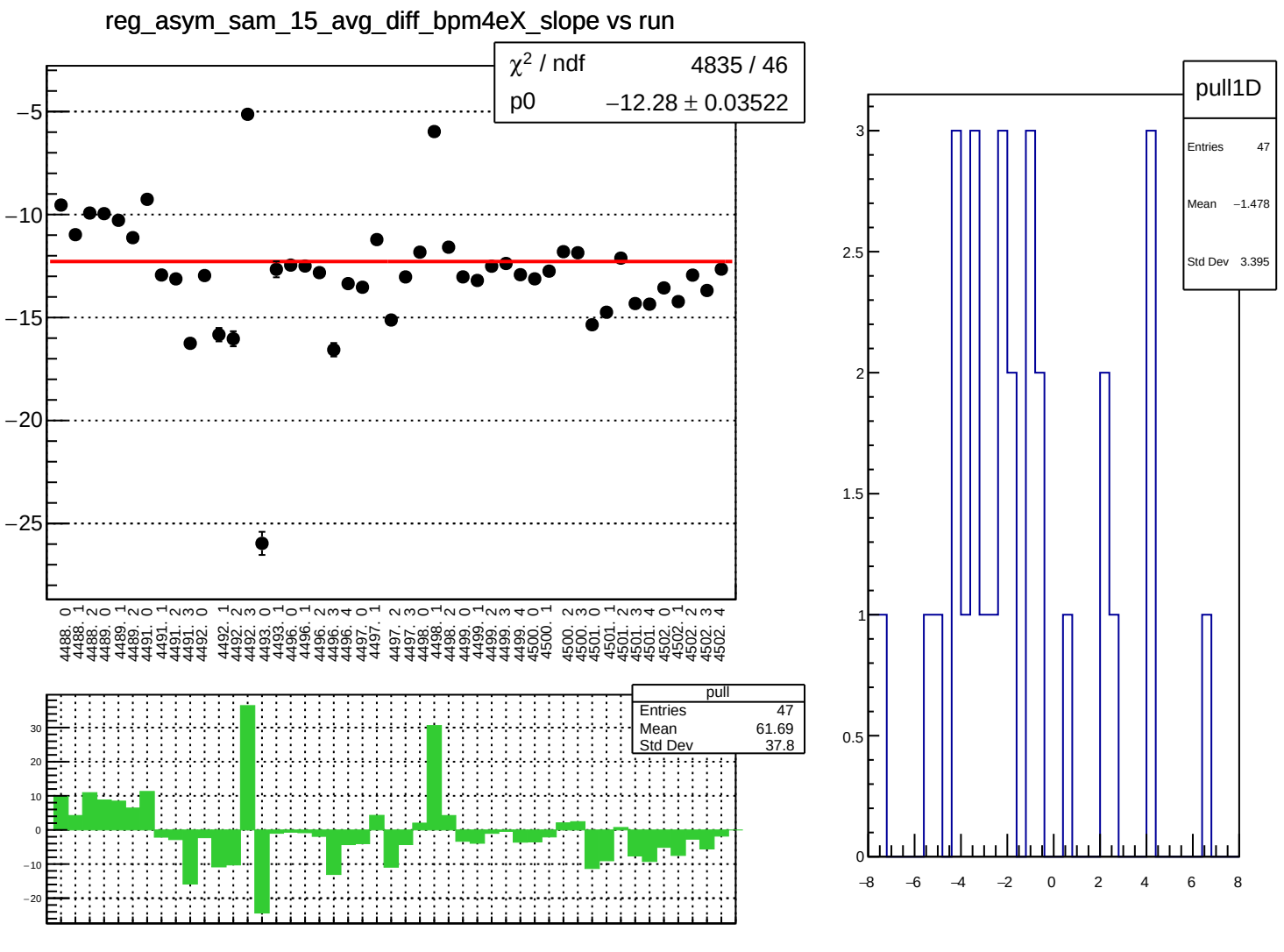

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 1112 / 46
p0 2.447 ± 0.07457
pull
Entries 47
Mean 29.81
Std Dev 14.19
pull1D
Entries 47
Mean −1.906
Std Dev 3.347

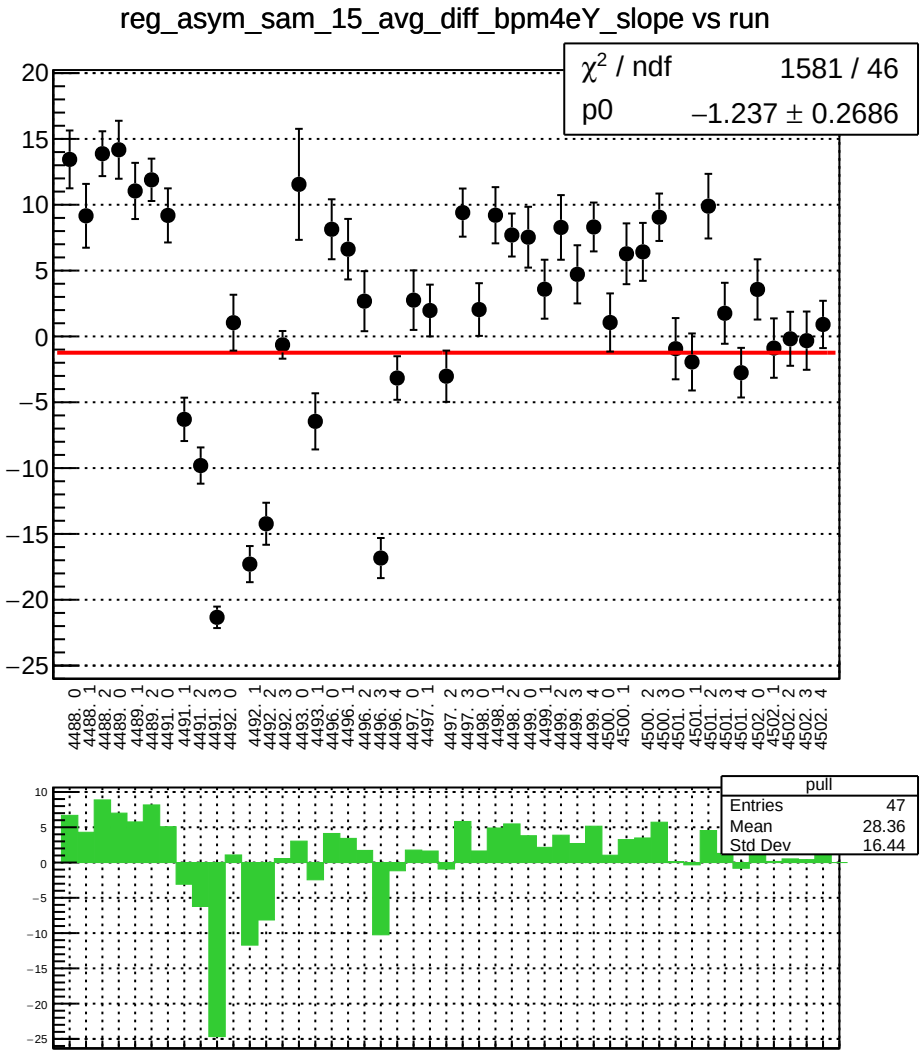

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 83.71 / 46
p0 2.417 ± 0.01504
pull
Entries 47
Mean −87.64
Std Dev 113.5

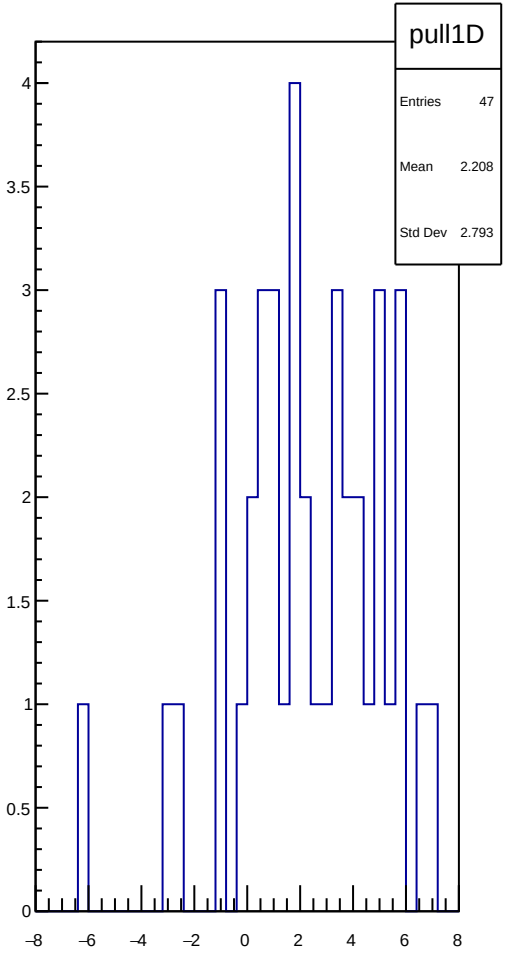

pull1D
Entries 47
Mean 0.05656
Std Dev 1.333

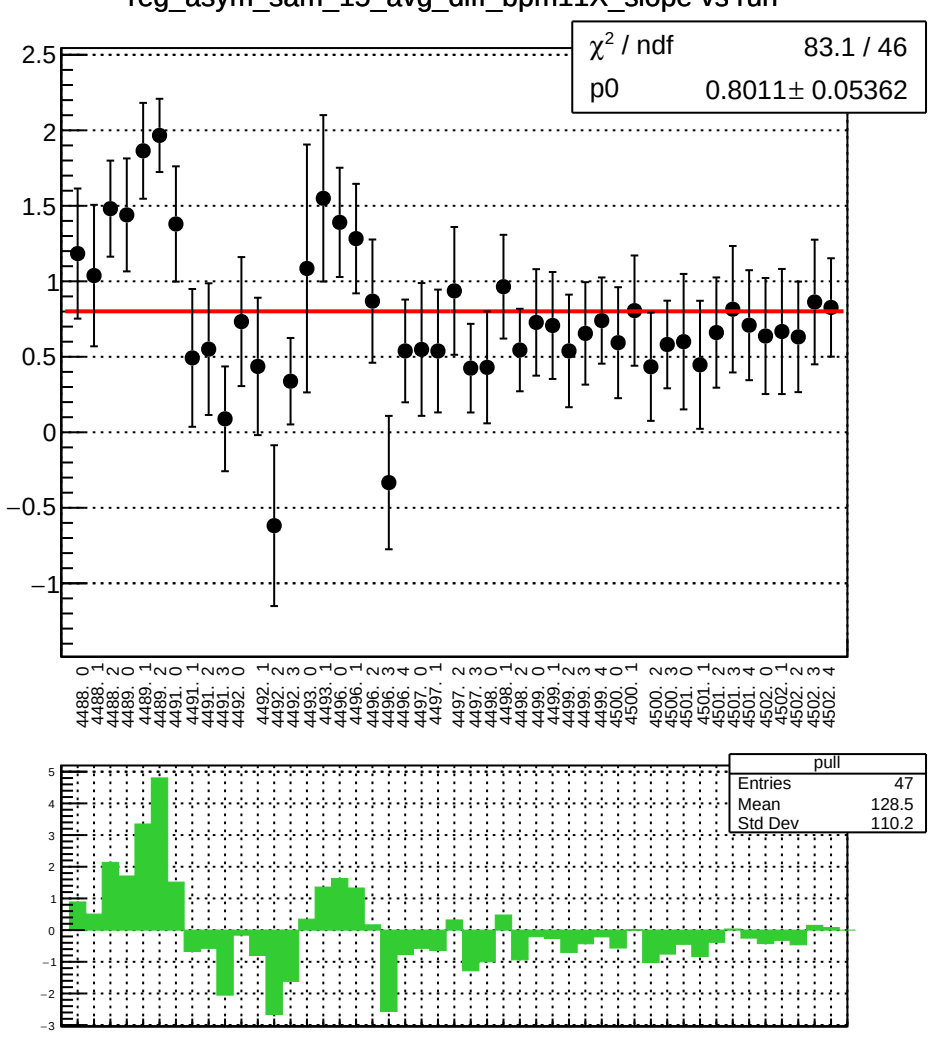

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 267.1 / 46
p0 4.734 ± 0.2085
pull
Entries 47
Mean −141.9
Std Dev 161.7
pull1D
Entries 47
Mean 0.149
Std Dev 2.379

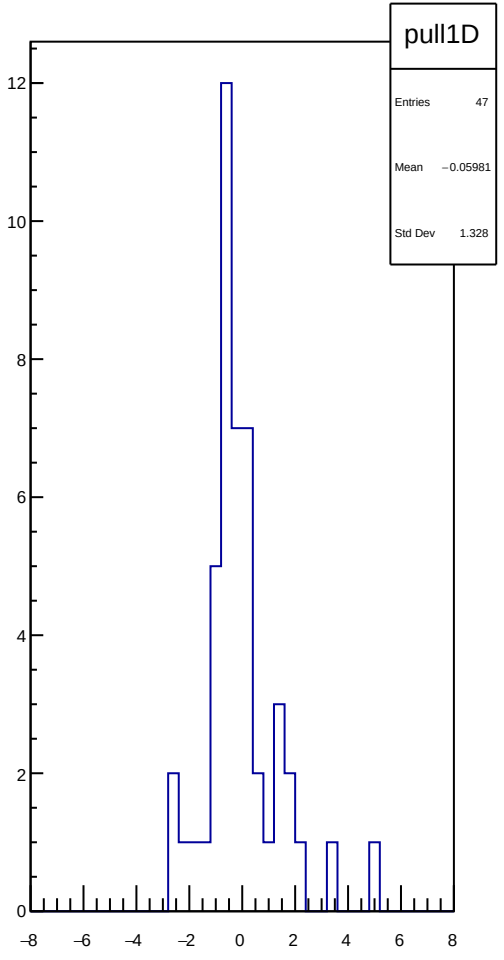

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 1455 / 46
p0 11.38 ± 0.2378
pull
Entries 47
Mean 39.67
Std Dev 8.381
pull1D
Entries 47
Mean −1.722
Std Dev 3.302

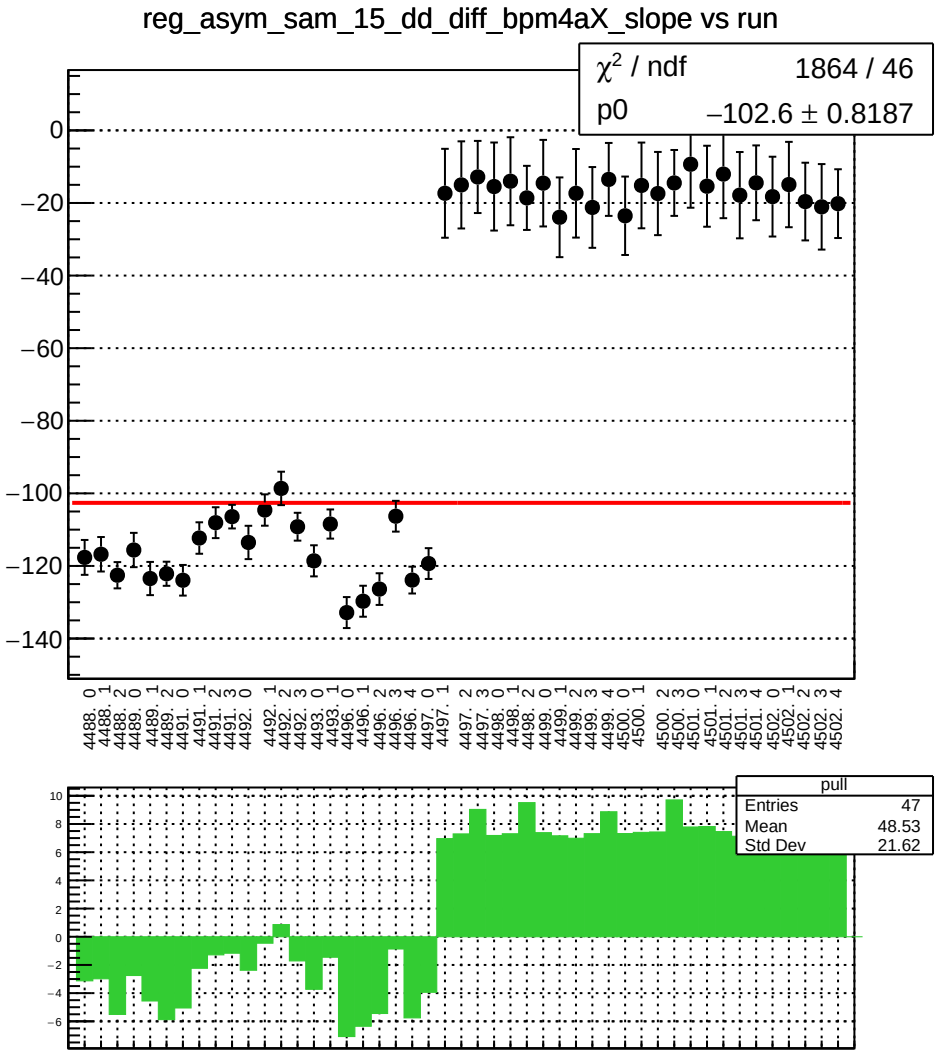

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 4835 / 46
p0 −12.28 ± 0.03522
pull
Entries 47
Mean 61.69
Std Dev 37.8
pull1D
Entries 47
Mean −1.478
Std Dev 3.395

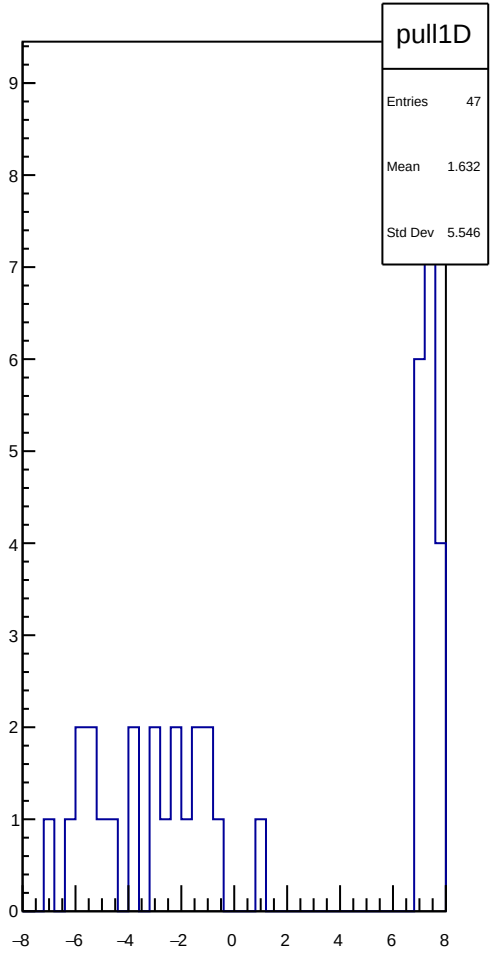

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 1581 / 46
p0 −1.237 ± 0.2686
pull
Entries 47
Mean 28.36
Std Dev 16.44

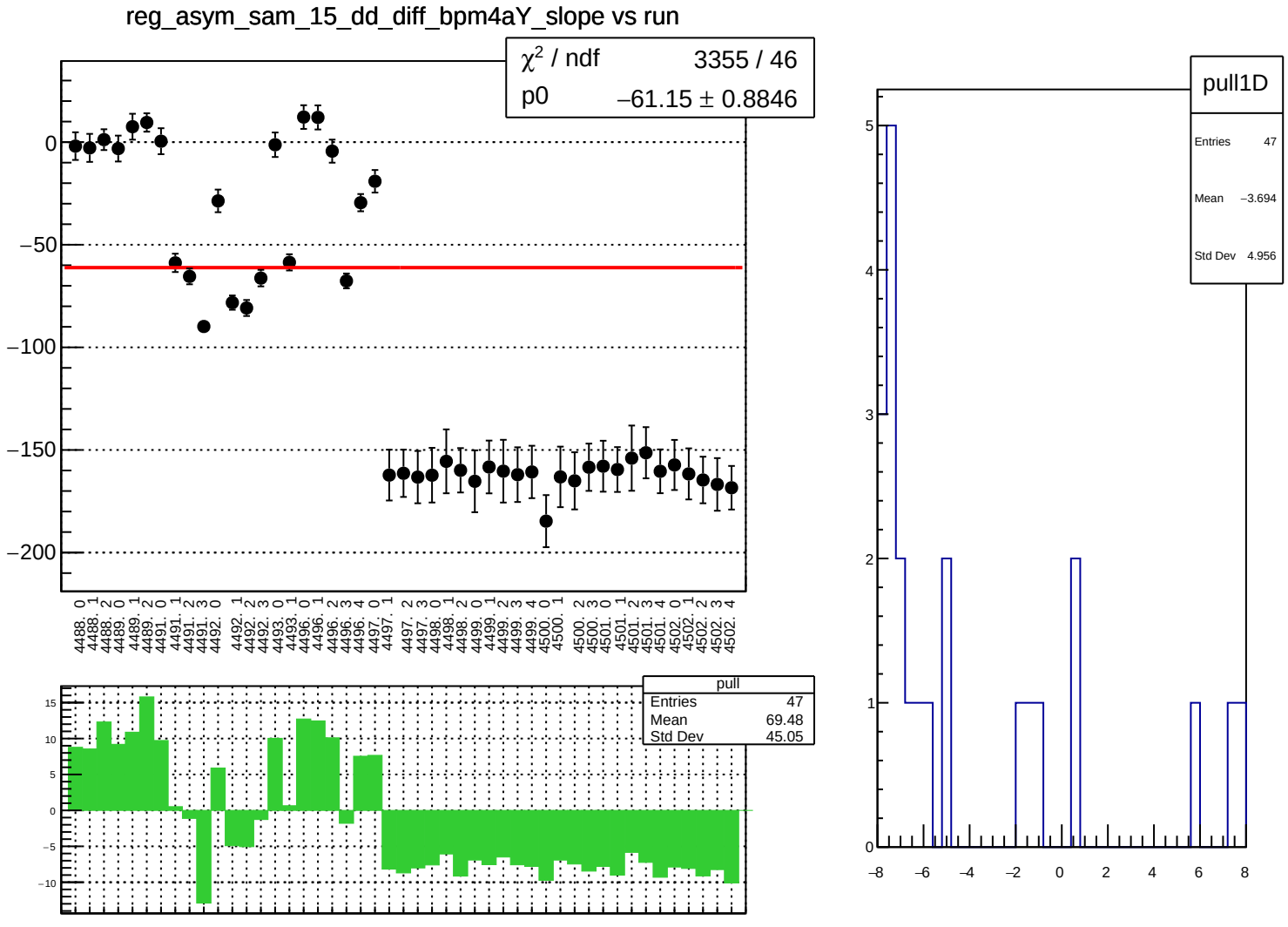

pull1D
Entries 47
Mean 2.208
Std Dev 2.793

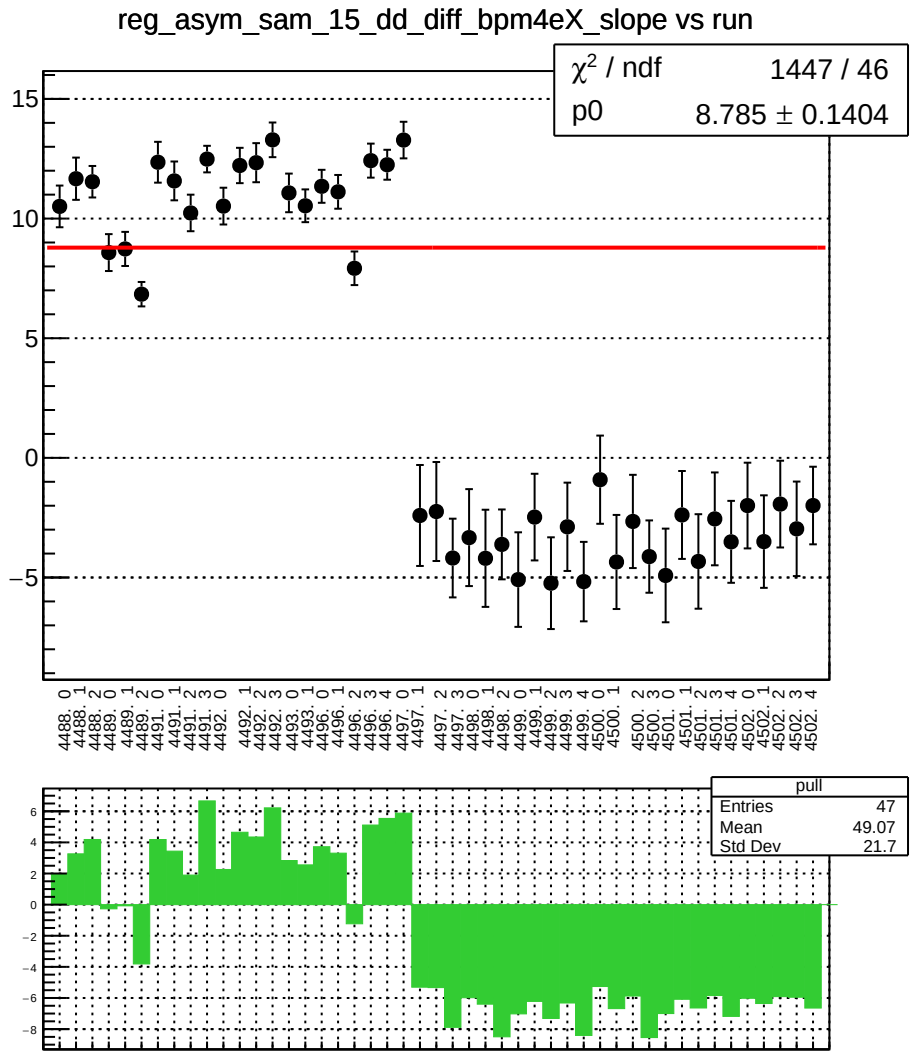

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 83.1 / 46
p0 0.8011± 0.05362
pull
Entries 47
Mean 128.5
Std Dev 110.2

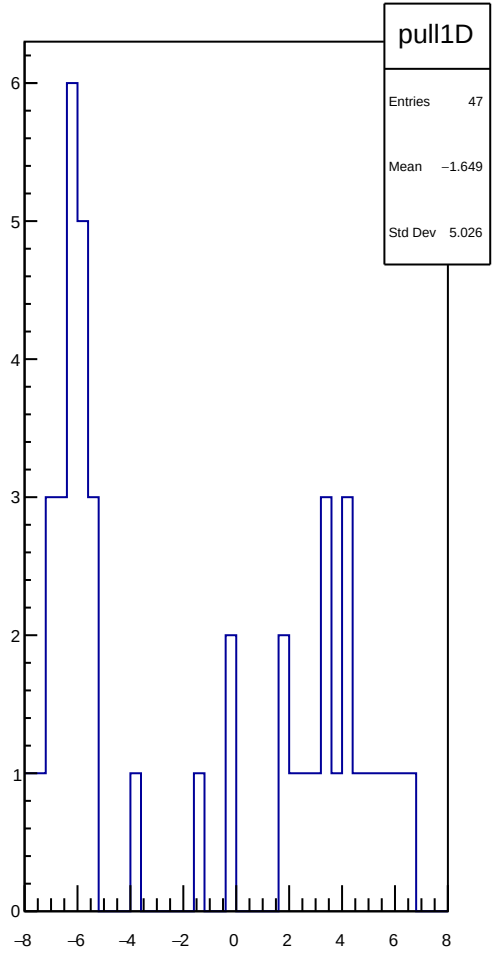

pull1D
Entries 47
Mean −0.05981
Std Dev 1.328

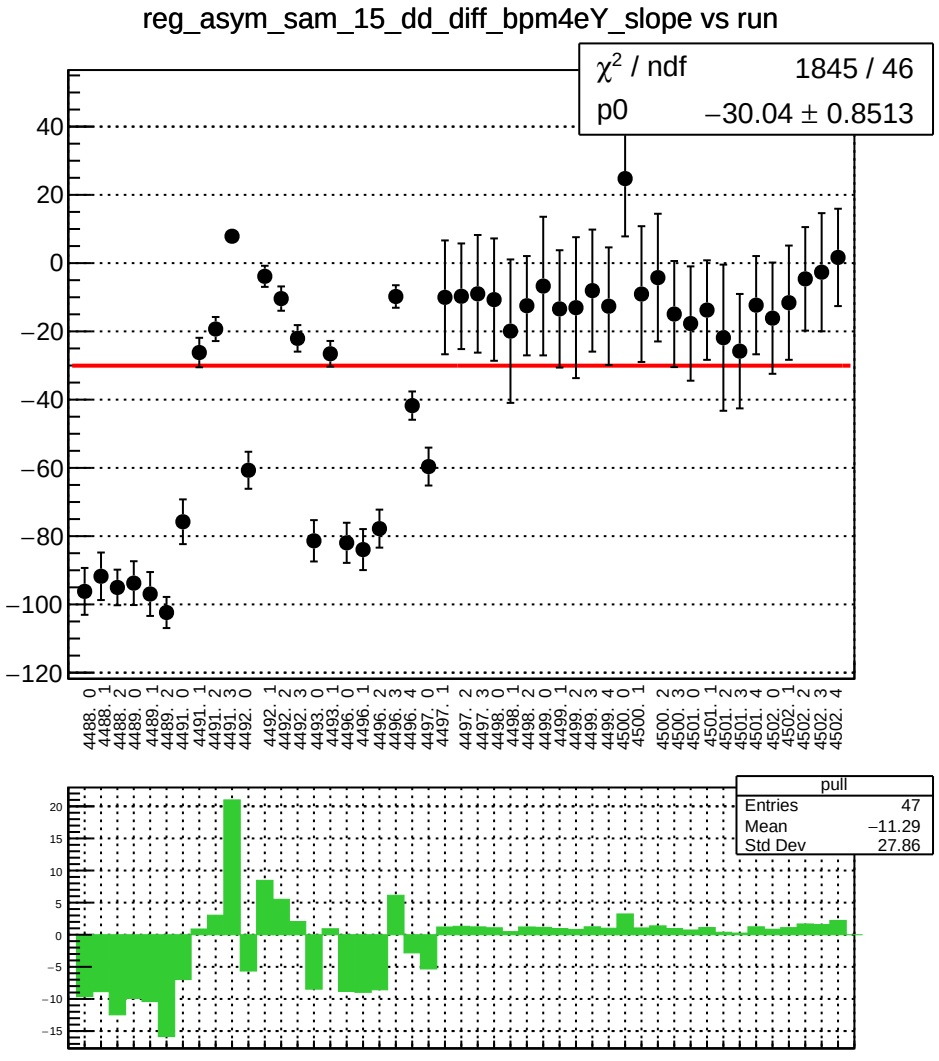

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 1864 / 46
p0 −102.6 ± 0.8187
pull
Entries 47
Mean 48.53
Std Dev 21.62

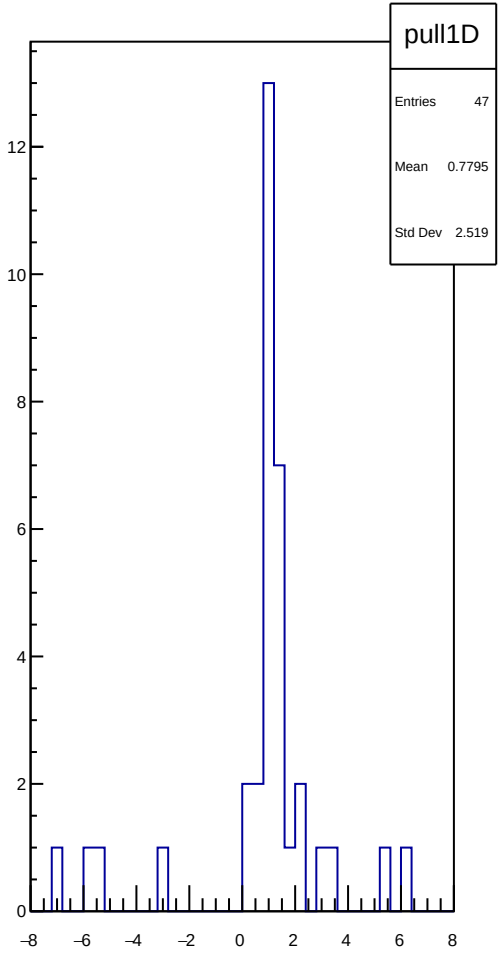

pull1D
Entries 47
Mean 1.632
Std Dev 5.546

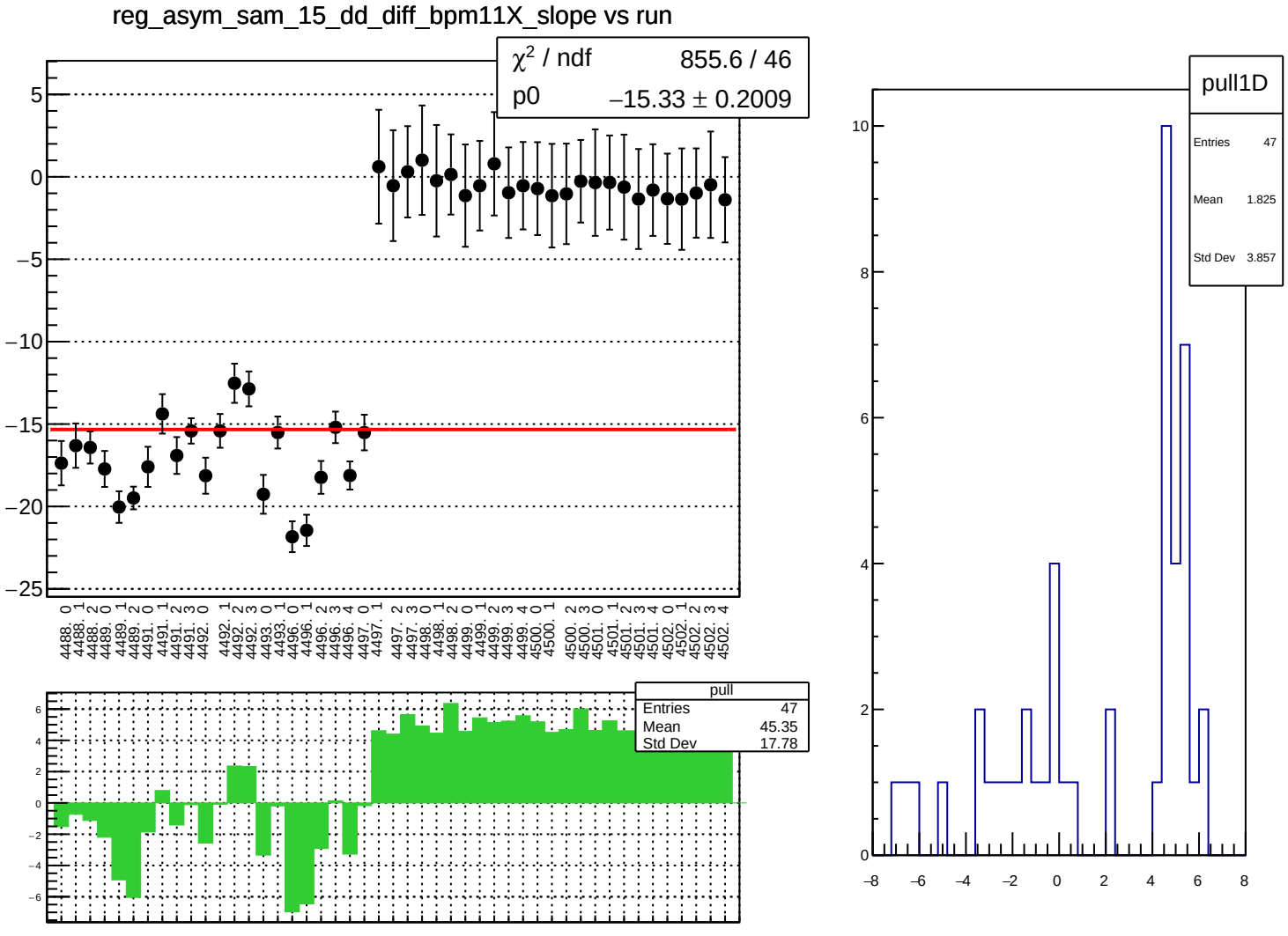

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3355 / 46
p0 −61.15 ± 0.8846
pull
Entries 47
Mean 69.48
Std Dev 45.05
pull1D
Entries 47
Mean −3.694
Std Dev 4.956

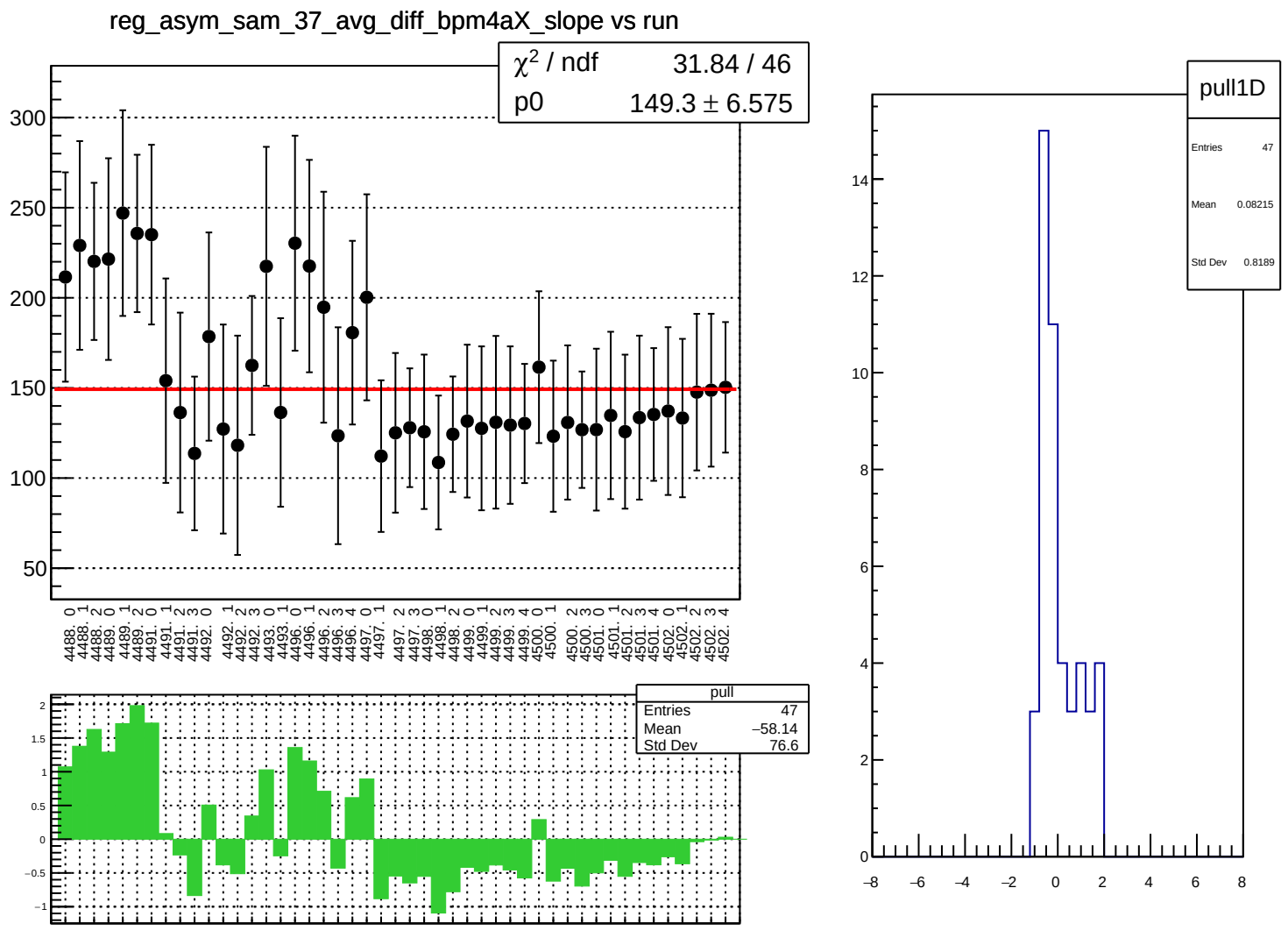

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1447 / 46
p0 8.785 ± 0.1404
pull
Entries 47
Mean 49.07
Std Dev 21.7

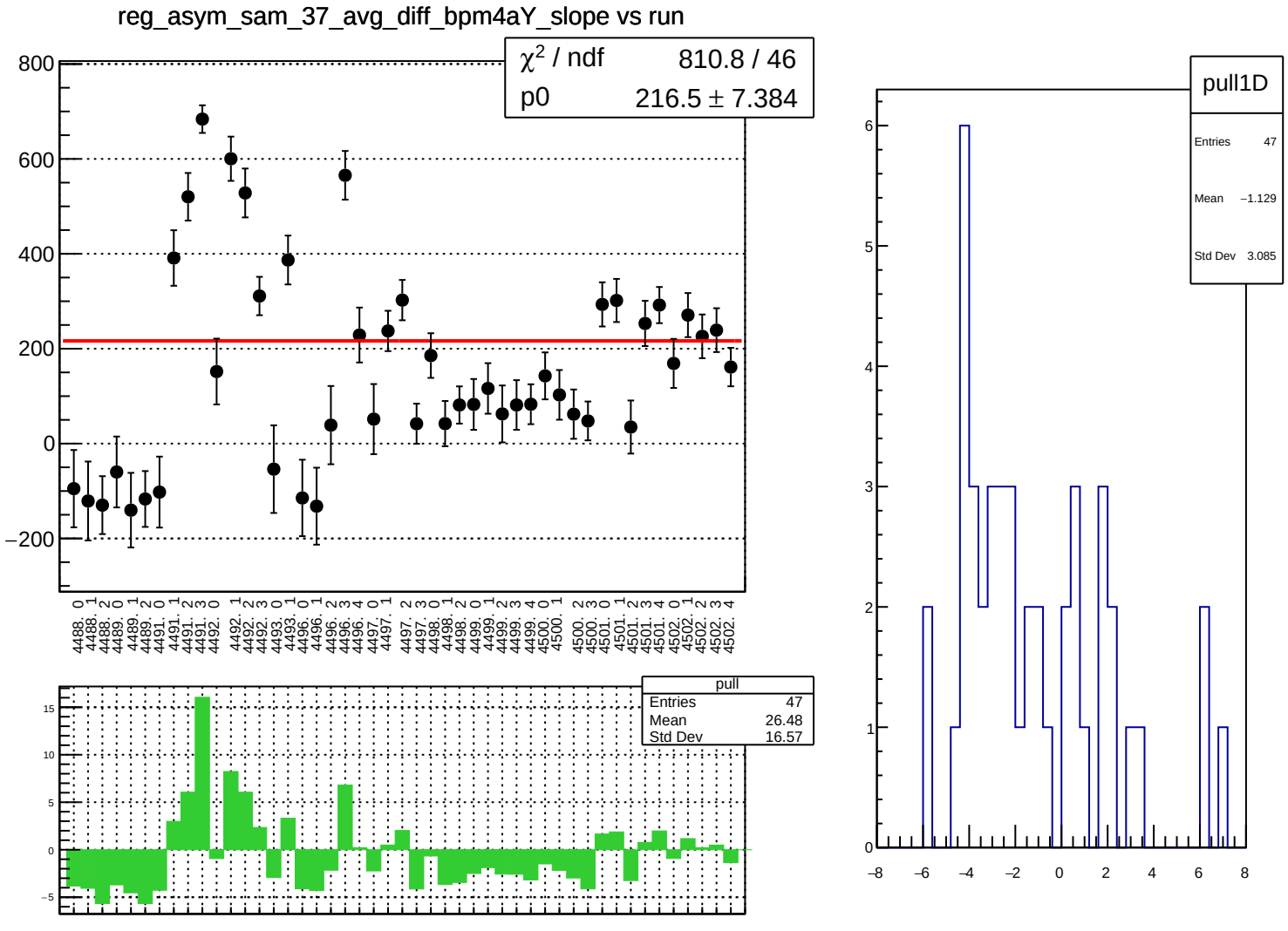

pull1D
Entries 47
Mean −1.649
Std Dev 5.026

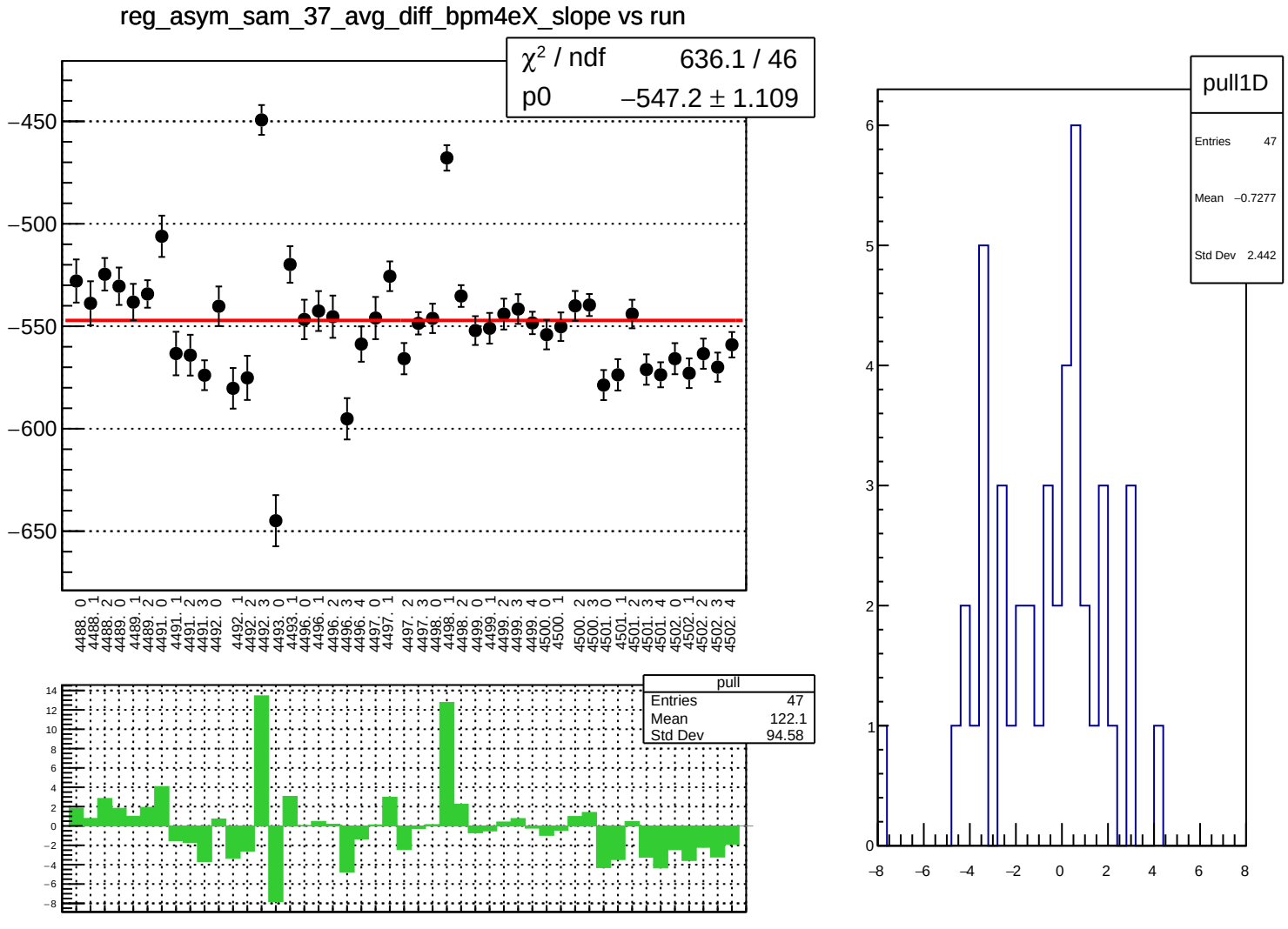

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 1845 / 46
p0 −30.04 ± 0.8513
pull
Entries 47
Mean −11.29
Std Dev 27.86

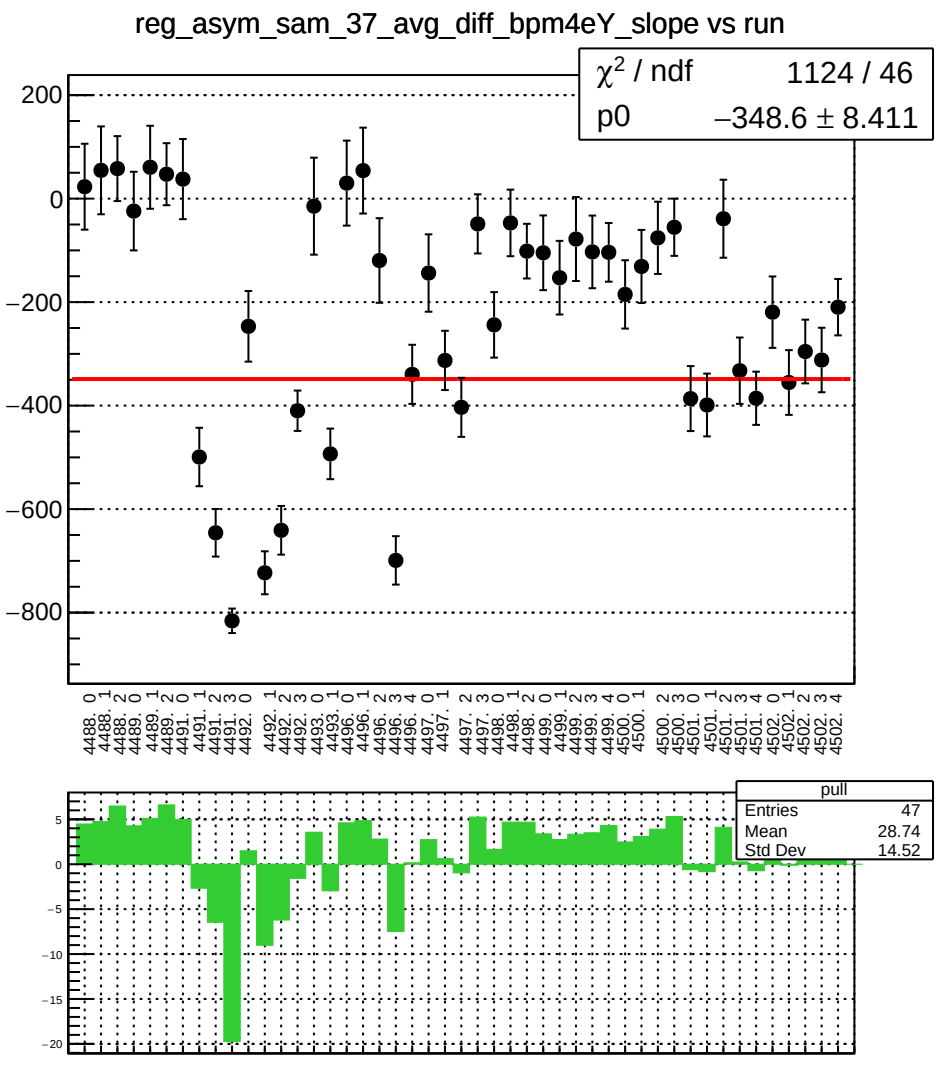

pull1D
Entries 47
Mean 0.7795
Std Dev 2.519

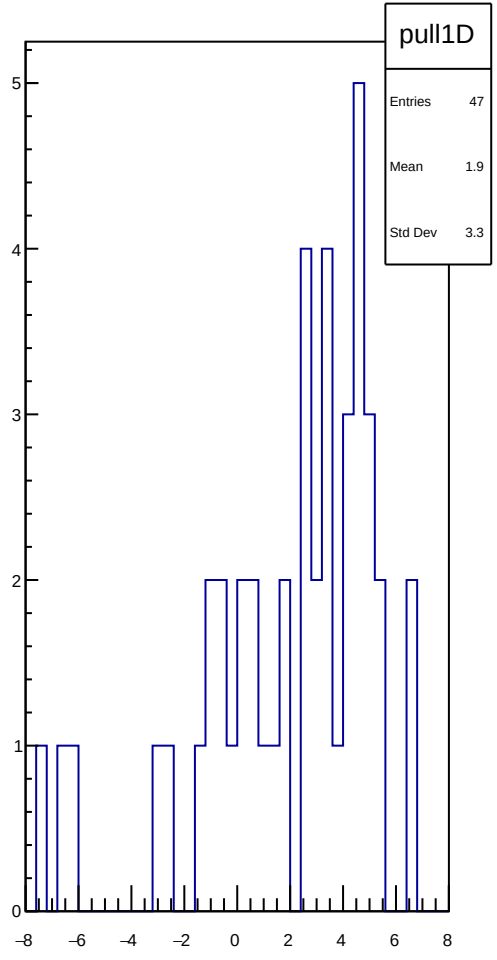

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 855.6 / 46
p0 −15.33 ± 0.2009
pull
Entries 47
Mean 45.35
Std Dev 17.78
pull1D
Entries 47
Mean 1.825
Std Dev 3.857

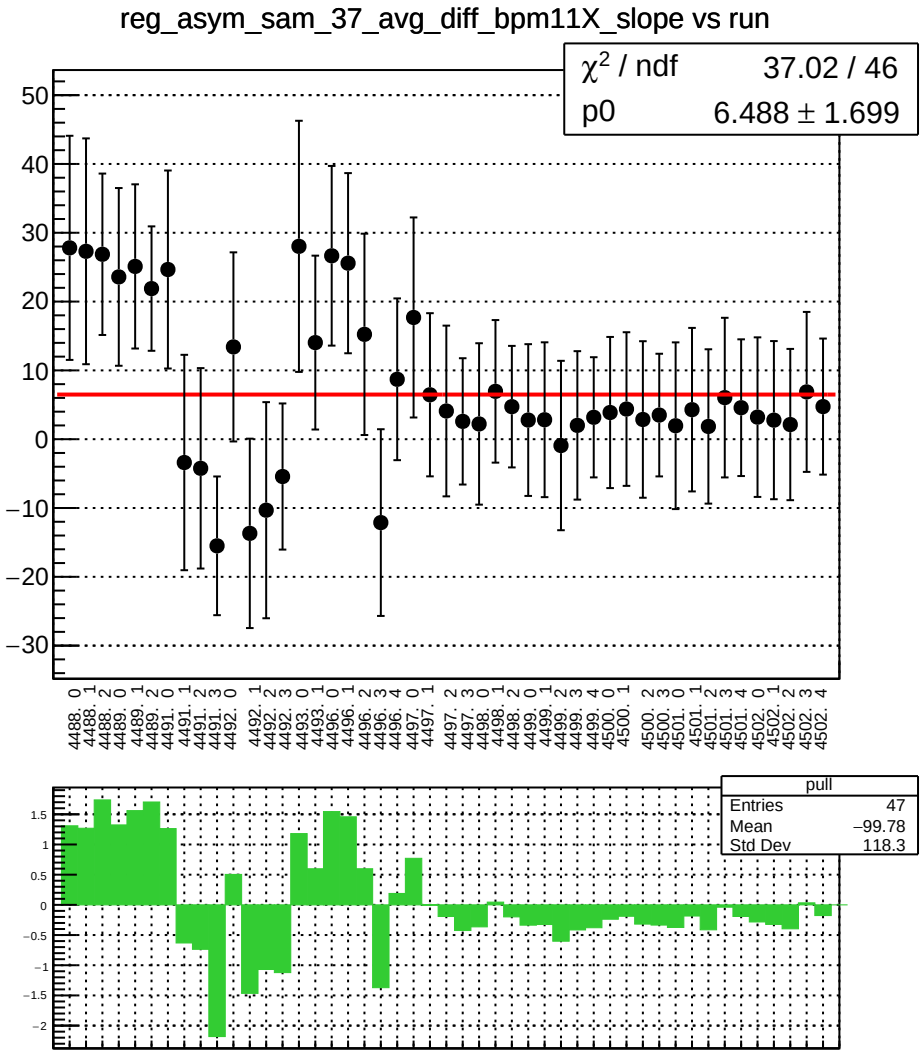

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.84 / 46
p0 149.3 ± 6.575
300
250
200
150
100
50
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −58.14
Std Dev 76.6
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 47
Mean 0.08215
Std Dev 0.8189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

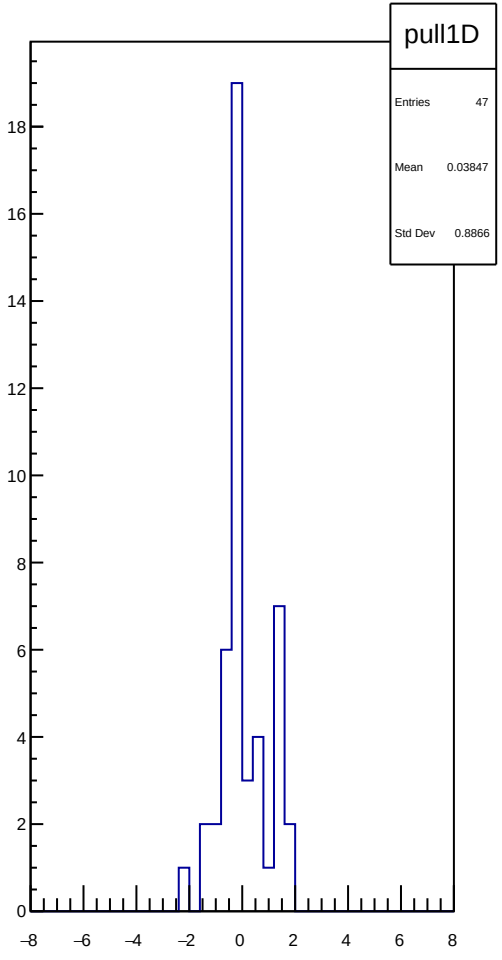

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 810.8 / 46
p0 216.5 ± 7.384
800
600
400
200
0
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 26.48
Std Dev 16.57
15
10
5
0
−5
pull1D
Entries 47
Mean −1.129
Std Dev 3.085
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

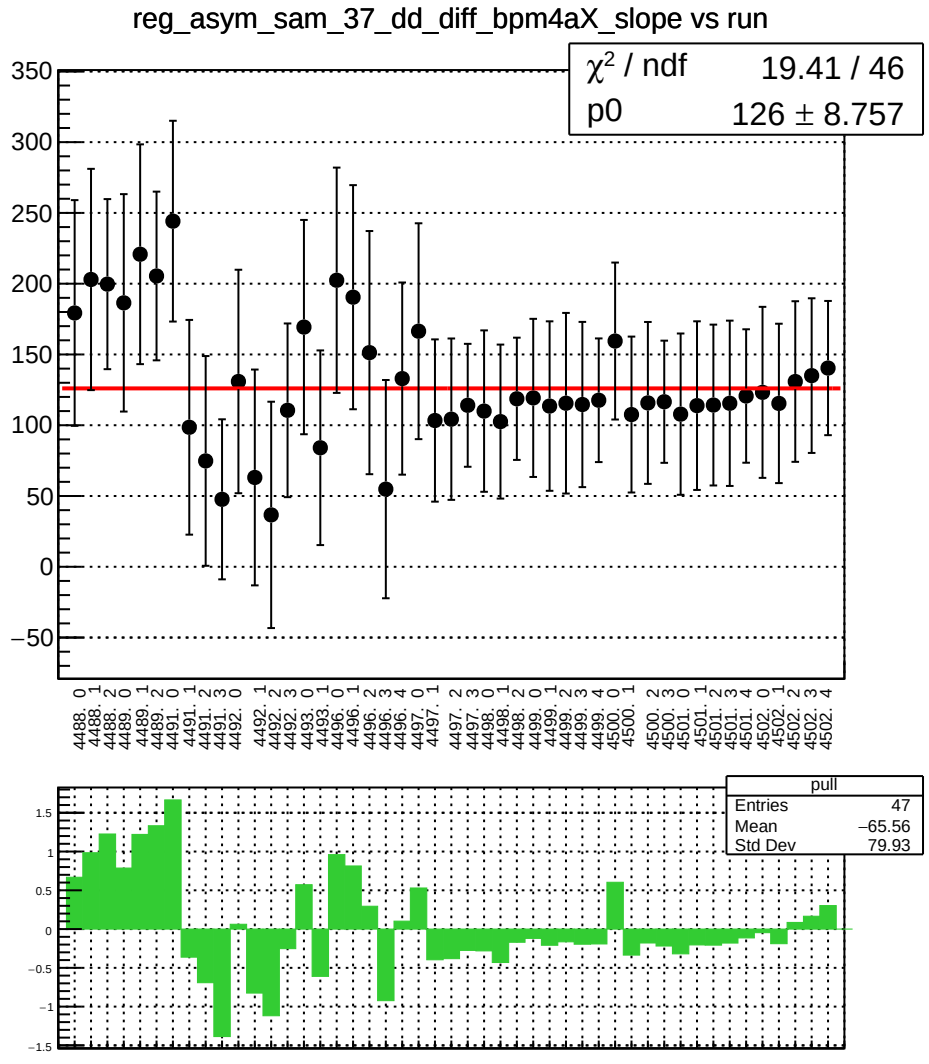

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 636.1 / 46
p0 −547.2 ± 1.109
−450
−500
−550
−600
−650
4488. 0
4488. 1
4488. 2
4488. 3
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 122.1
Std Dev 94.58
14
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 47
Mean −0.7277
Std Dev 2.442
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

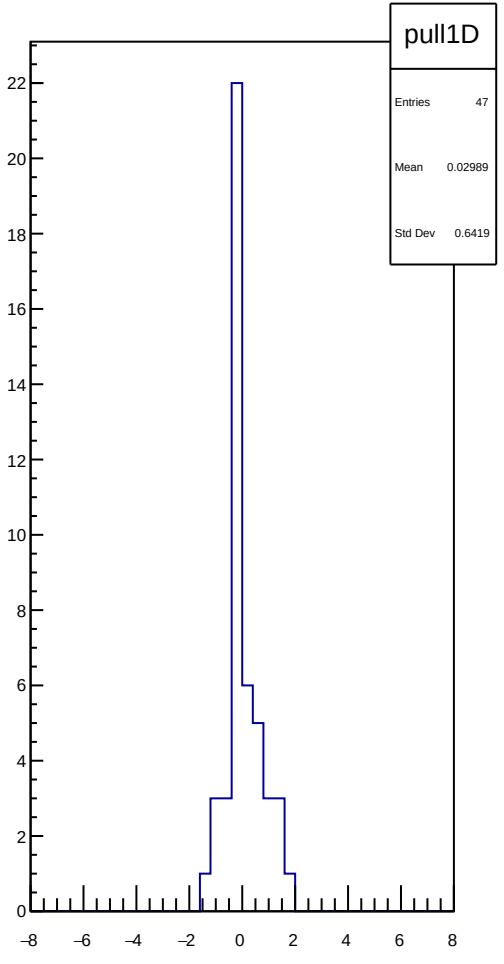

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1124 / 46
p0 −348.6 ± 8.411
200
0
−200
−400
−600
−800
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 28.74
Std Dev 14.52
5
0
−5
−10
−15
−20

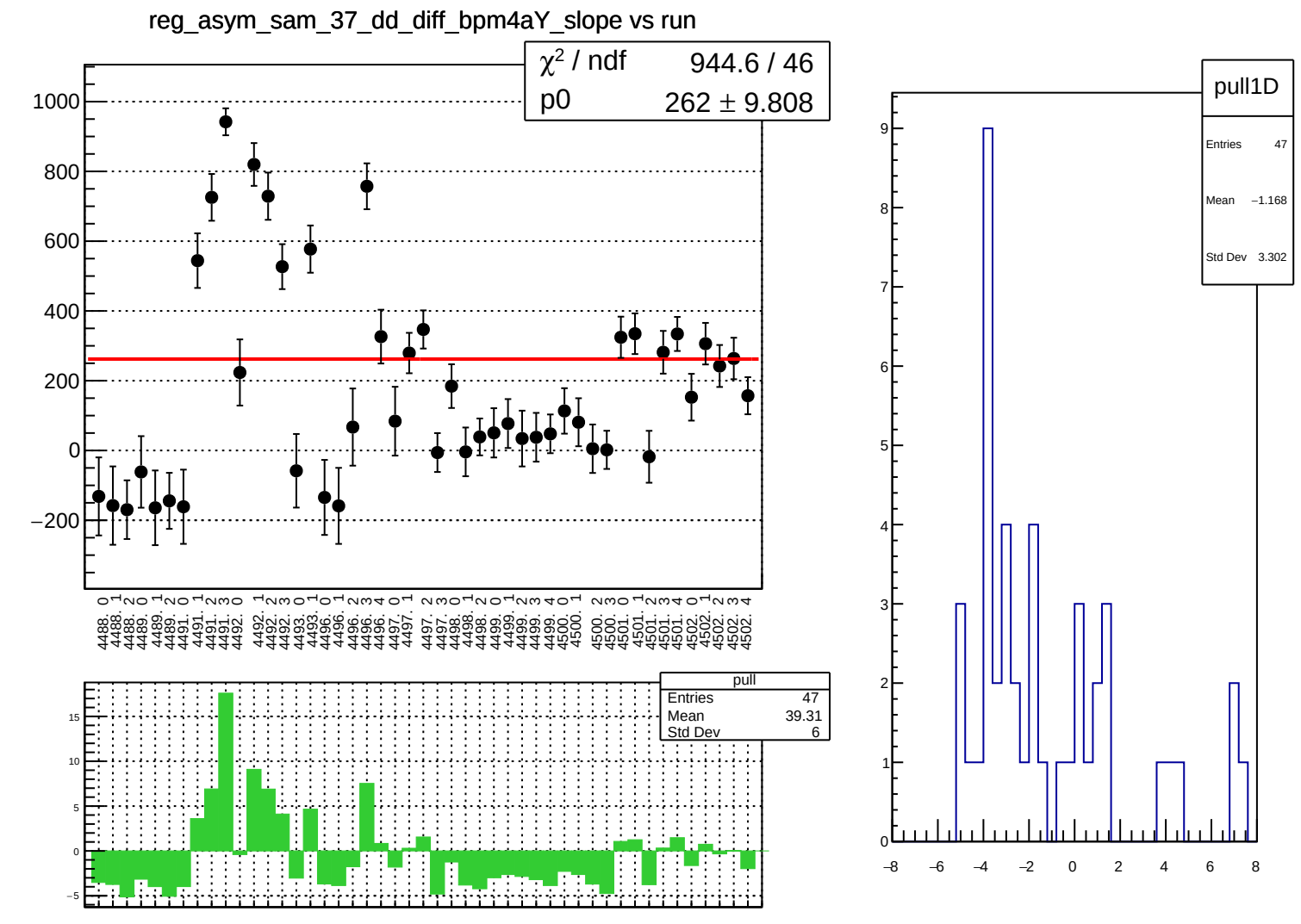

pull1D
Entries 47
Mean 1.9
Std Dev 3.3
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

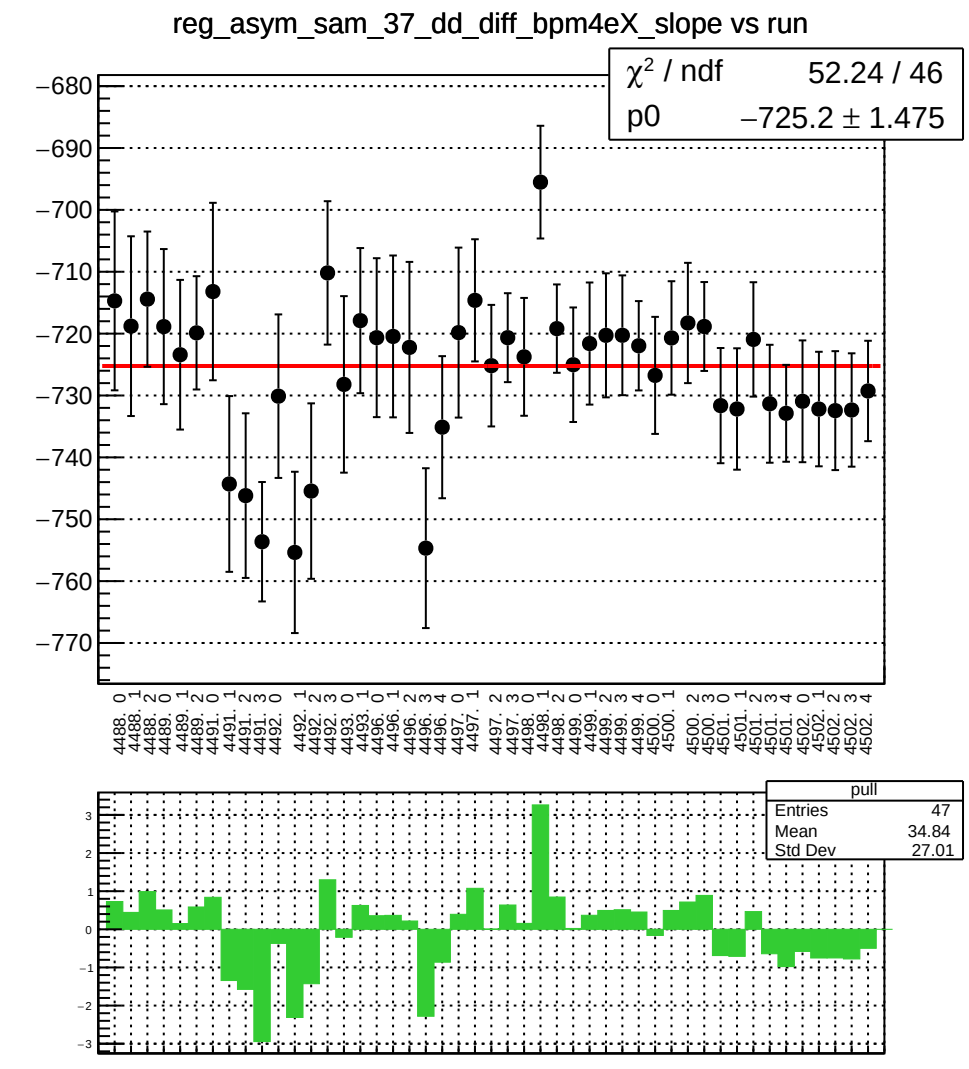

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 37.02 / 46
p0 6.488 ± 1.699
pull
Entries 47
Mean −99.78
Std Dev 118.3

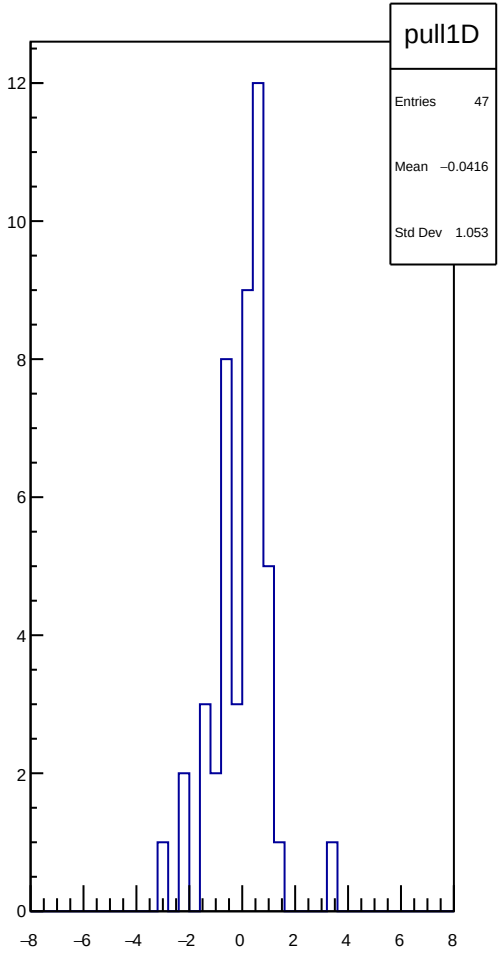

pull1D
Entries 47
Mean 0.03847
Std Dev 0.8866

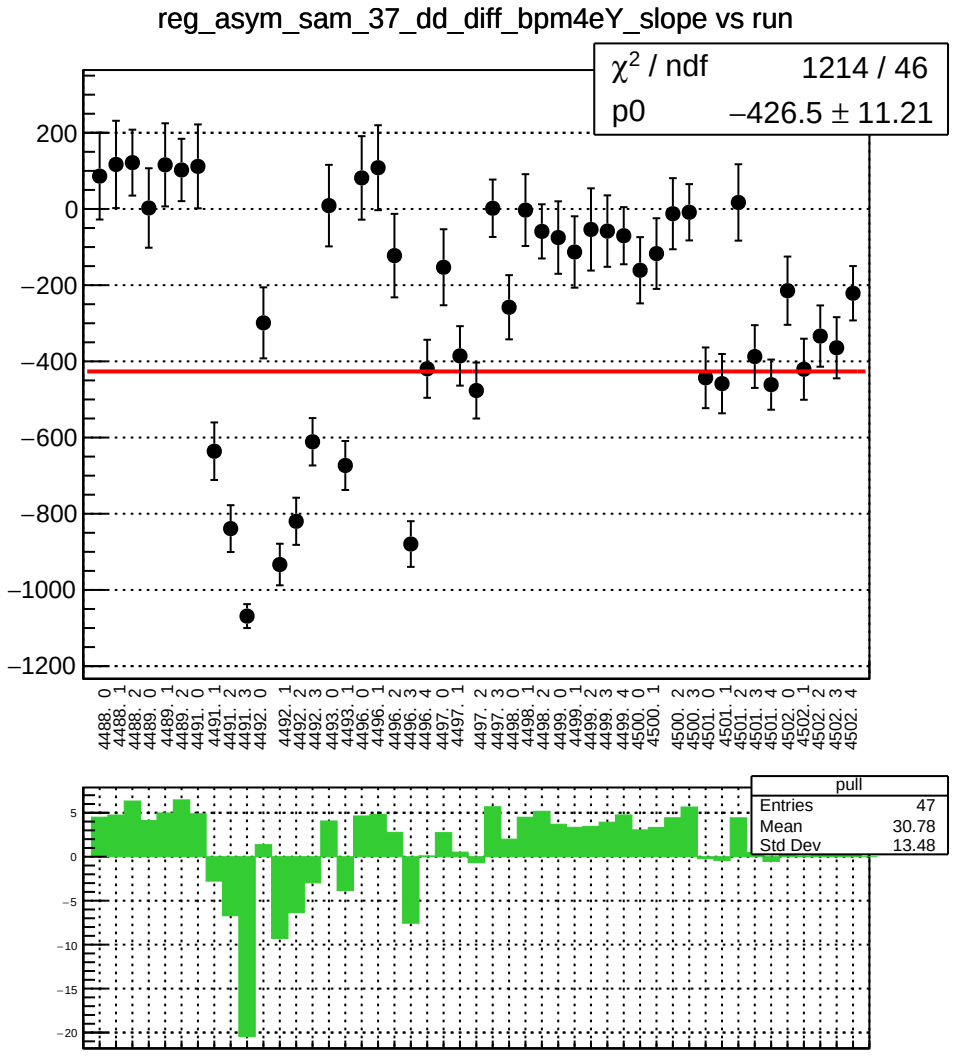

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.41 / 46
p0 126 ± 8.757
pull
Entries 47
Mean −65.56
Std Dev 79.93

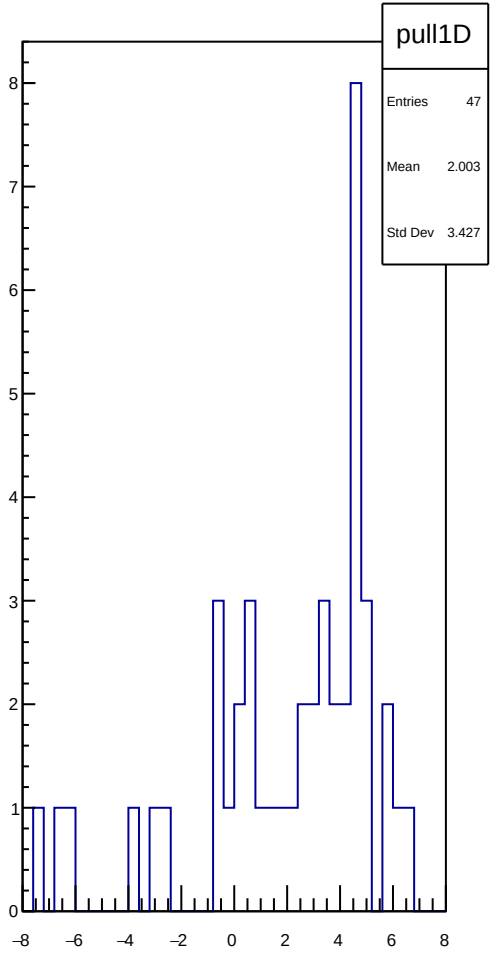

pull1D
Entries 47
Mean 0.02989
Std Dev 0.6419

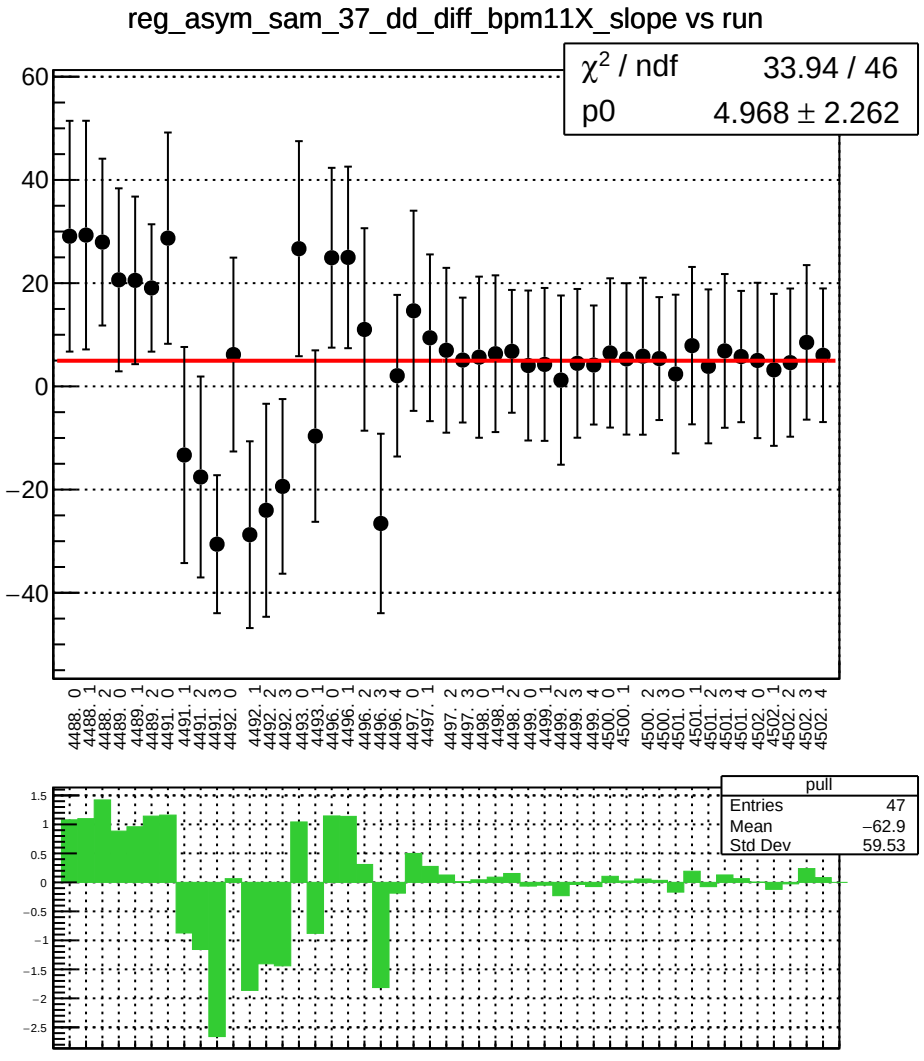

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 944.6 / 46
p0 262 ± 9.808
1000
800
600
400
200
0
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 39.31
Std Dev 6
15
10
5
0
−5
pull1D
Entries 47
Mean −1.168
Std Dev 3.302
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

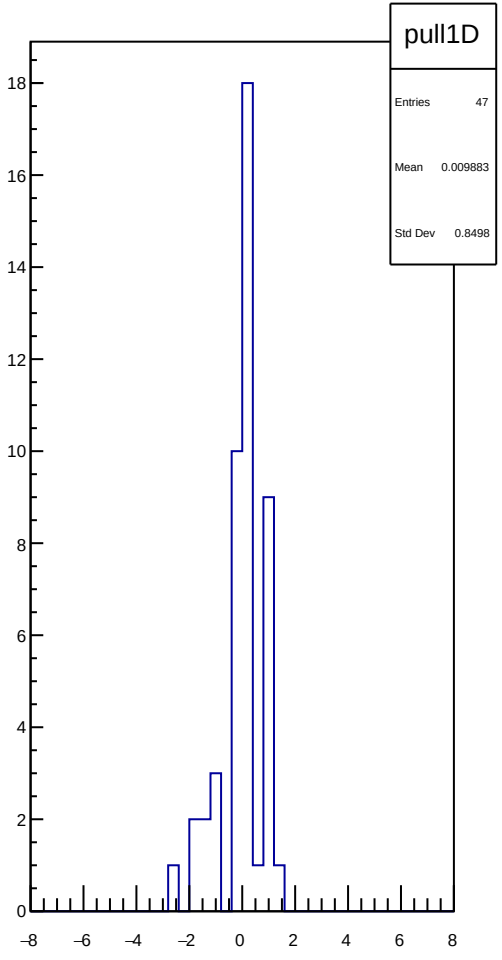

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.24 / 46
p0 −725.2 ± 1.475
pull
Entries 47
Mean 34.84
Std Dev 27.01

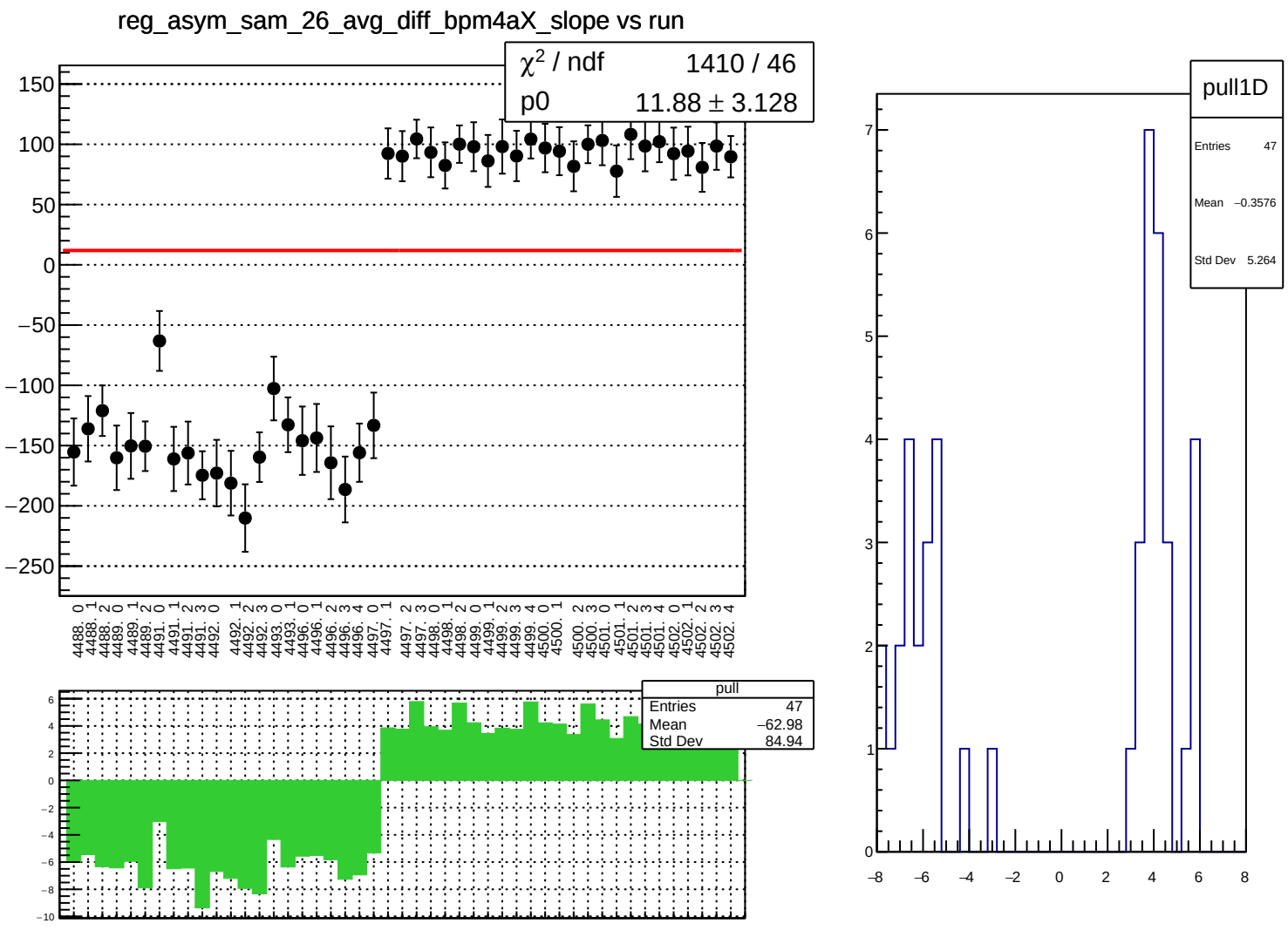

pull1D
Entries 47
Mean −0.0416
Std Dev 1.053

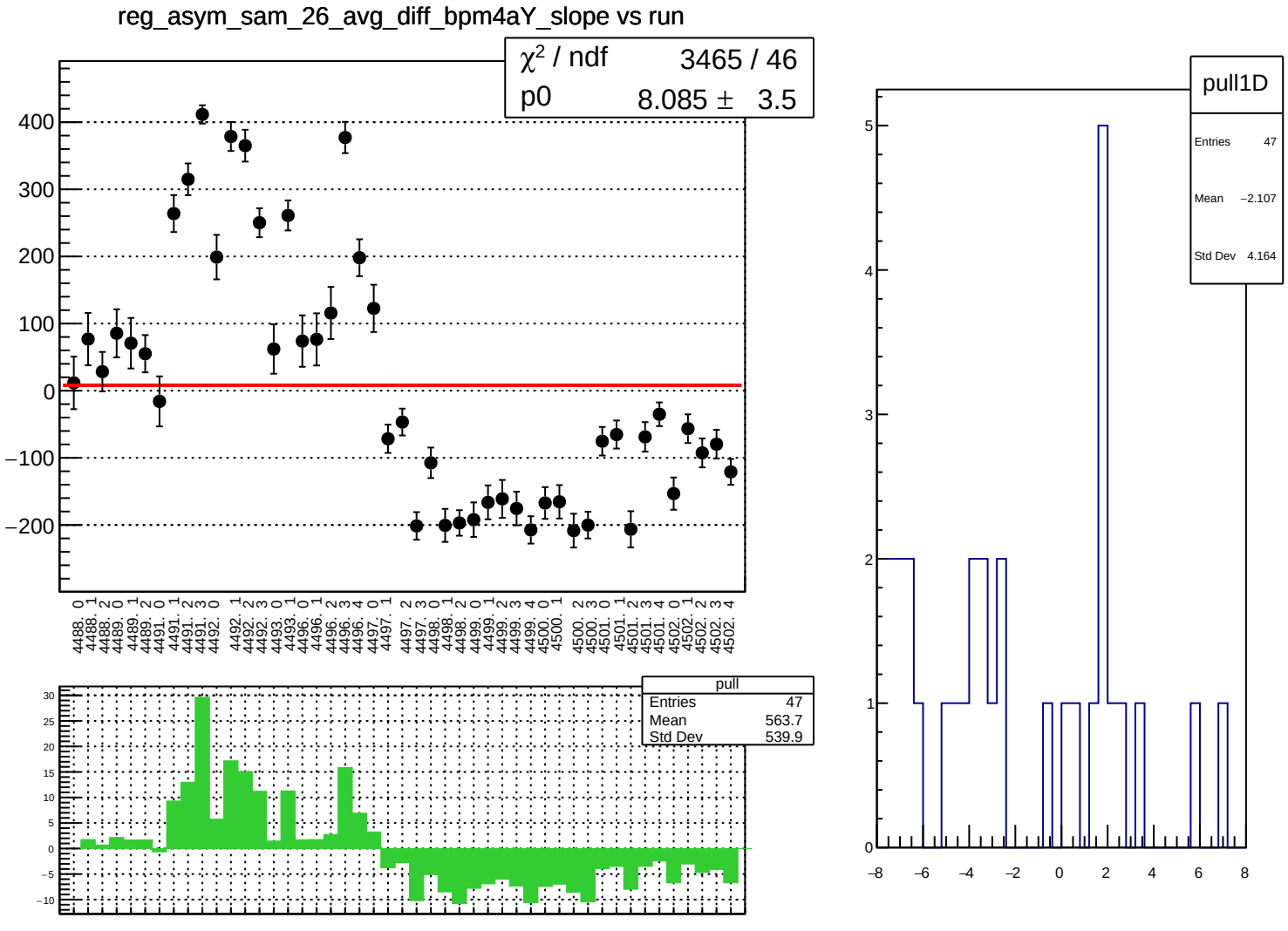

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1214 / 46
p0 −426.5 ± 11.21
pull
Entries 47
Mean 30.78
Std Dev 13.48

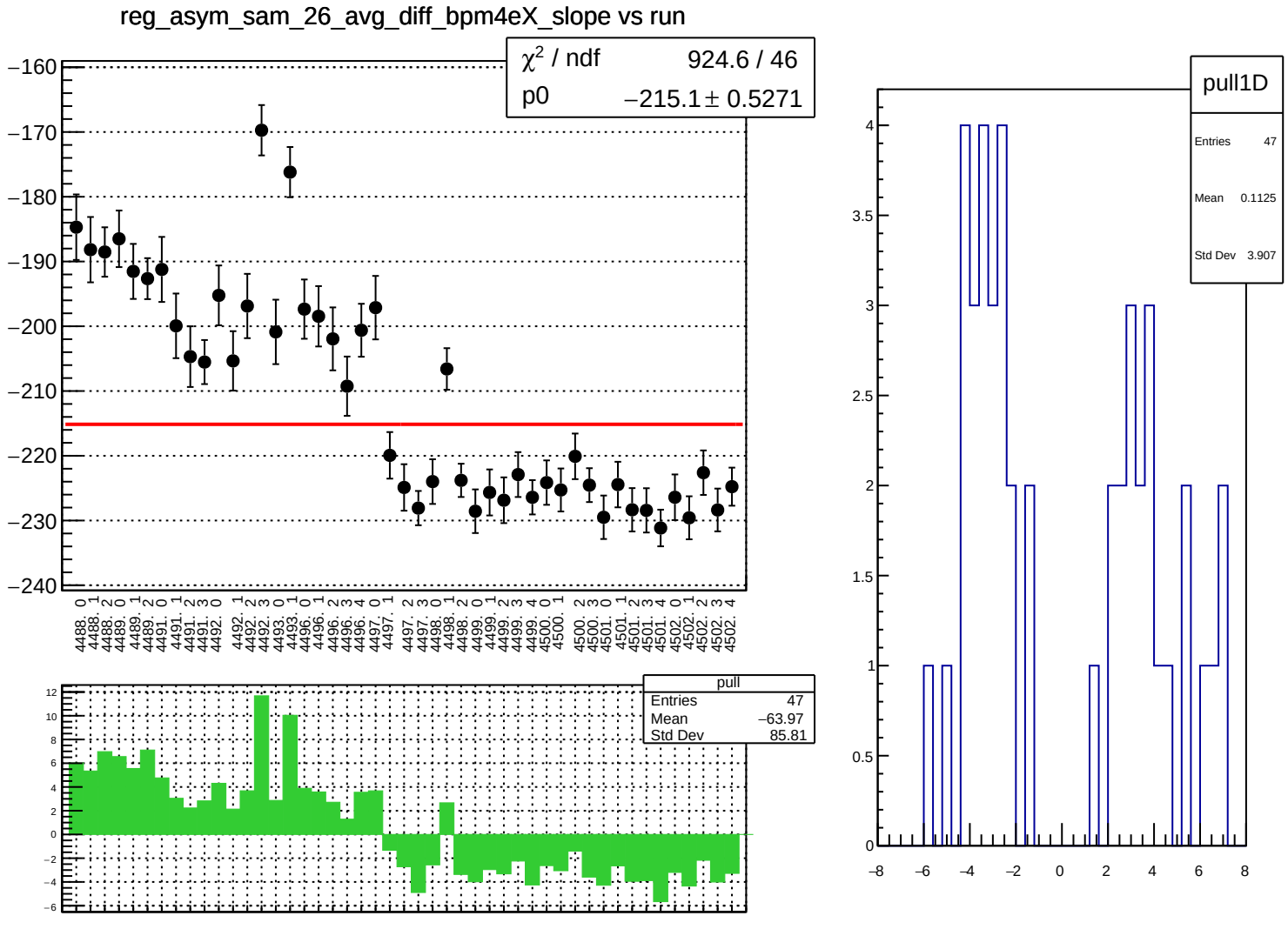

pull1D
Entries 47
Mean 2.003
Std Dev 3.427

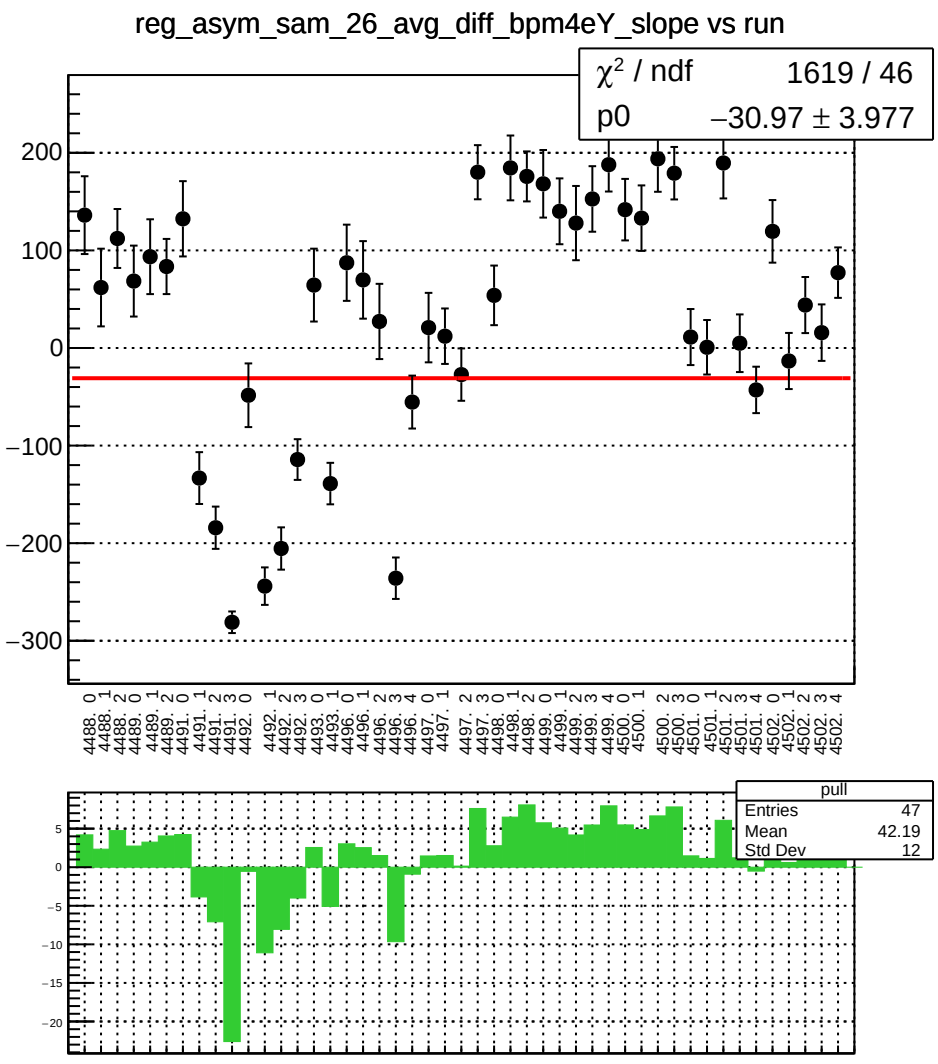

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 33.94 / 46
p0 4.968 ± 2.262
pull
Entries 47
Mean −62.9
Std Dev 59.53

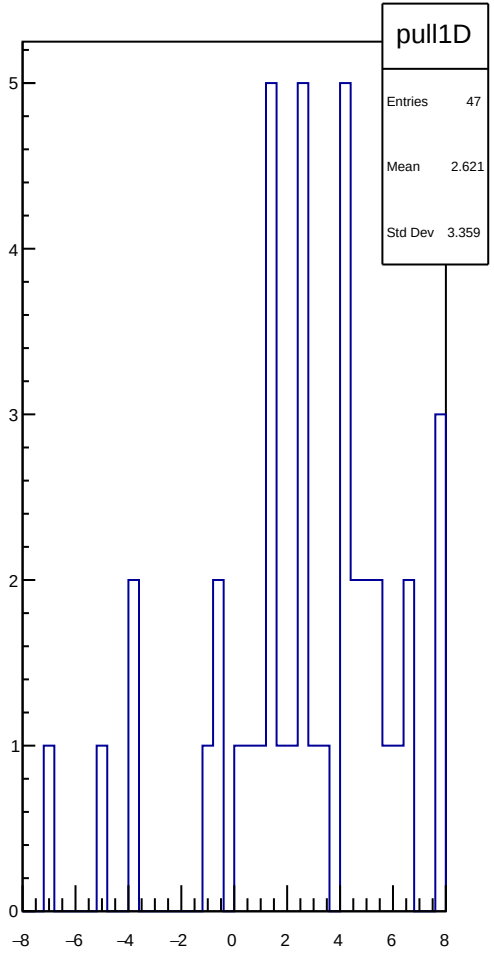

pull1D
Entries 47
Mean 0.009883
Std Dev 0.8498

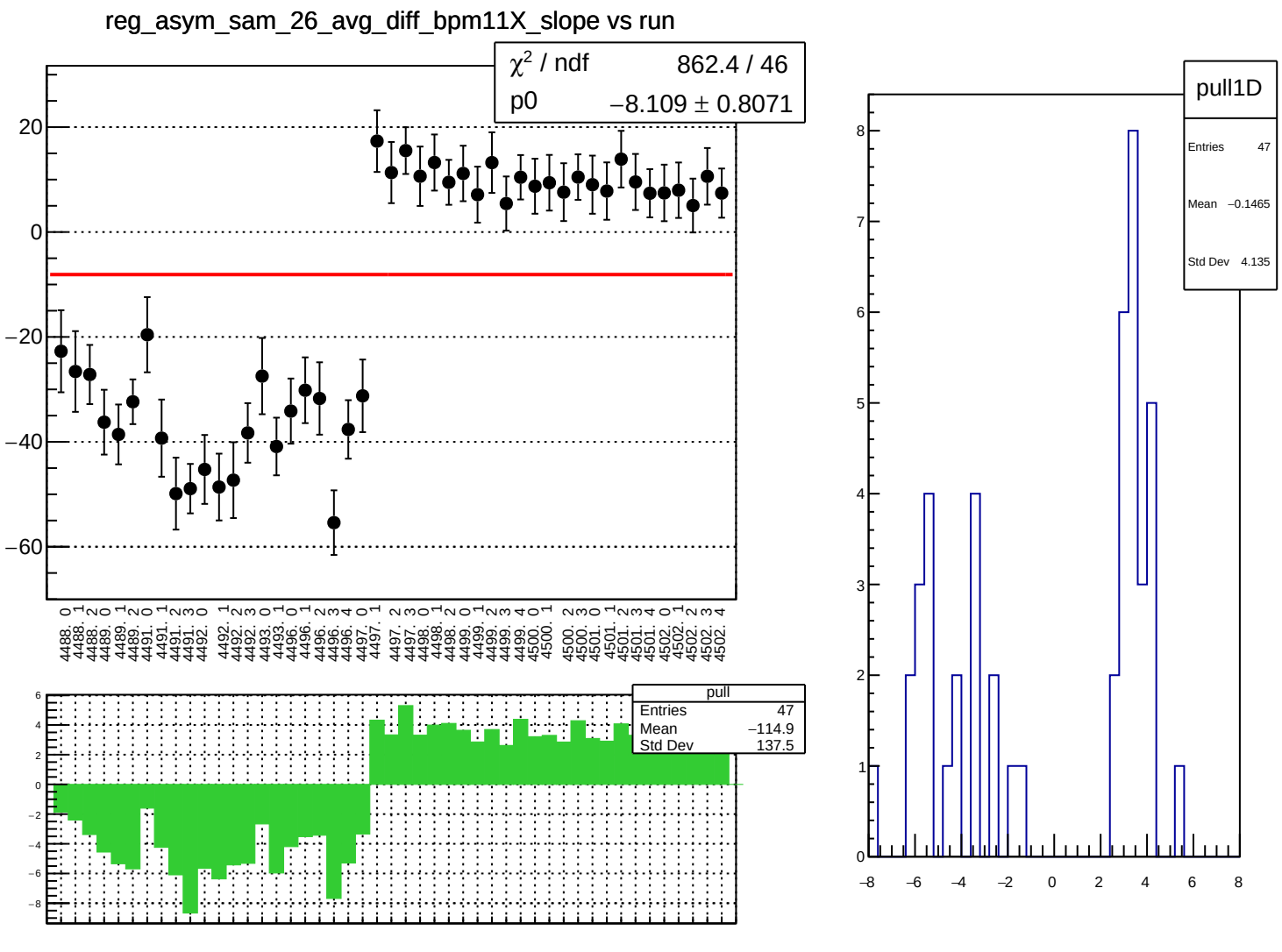

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 1410 / 46
p0 11.88 ± 3.128
pull
Entries 47
Mean −62.98
Std Dev 84.94
pull1D
Entries 47
Mean −0.3576
Std Dev 5.264

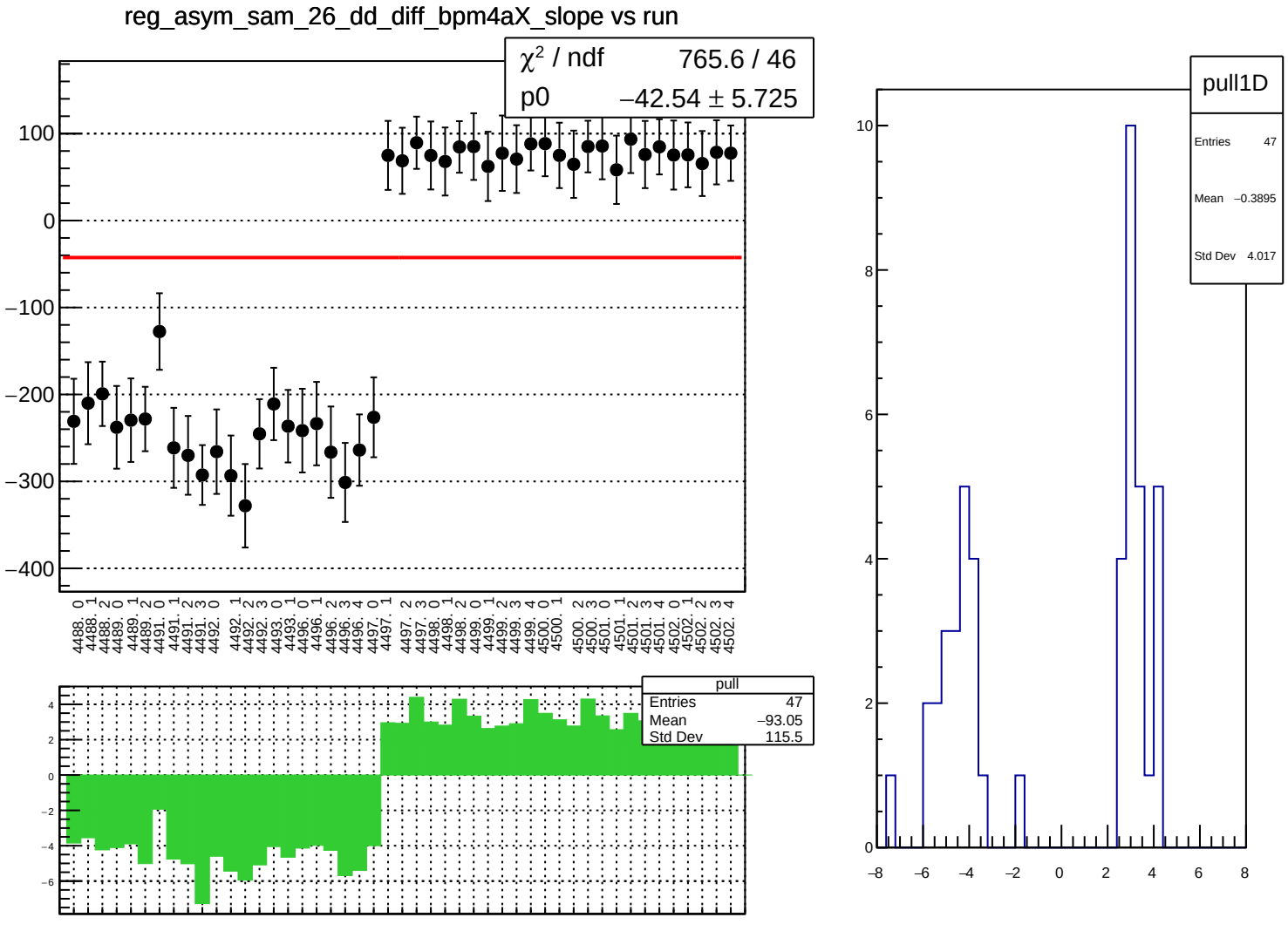

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3465 / 46
p0 8.085 ± 3.5
pull
Entries 47
Mean 563.7
Std Dev 539.9
pull1D
Entries 47
Mean −2.107
Std Dev 4.164

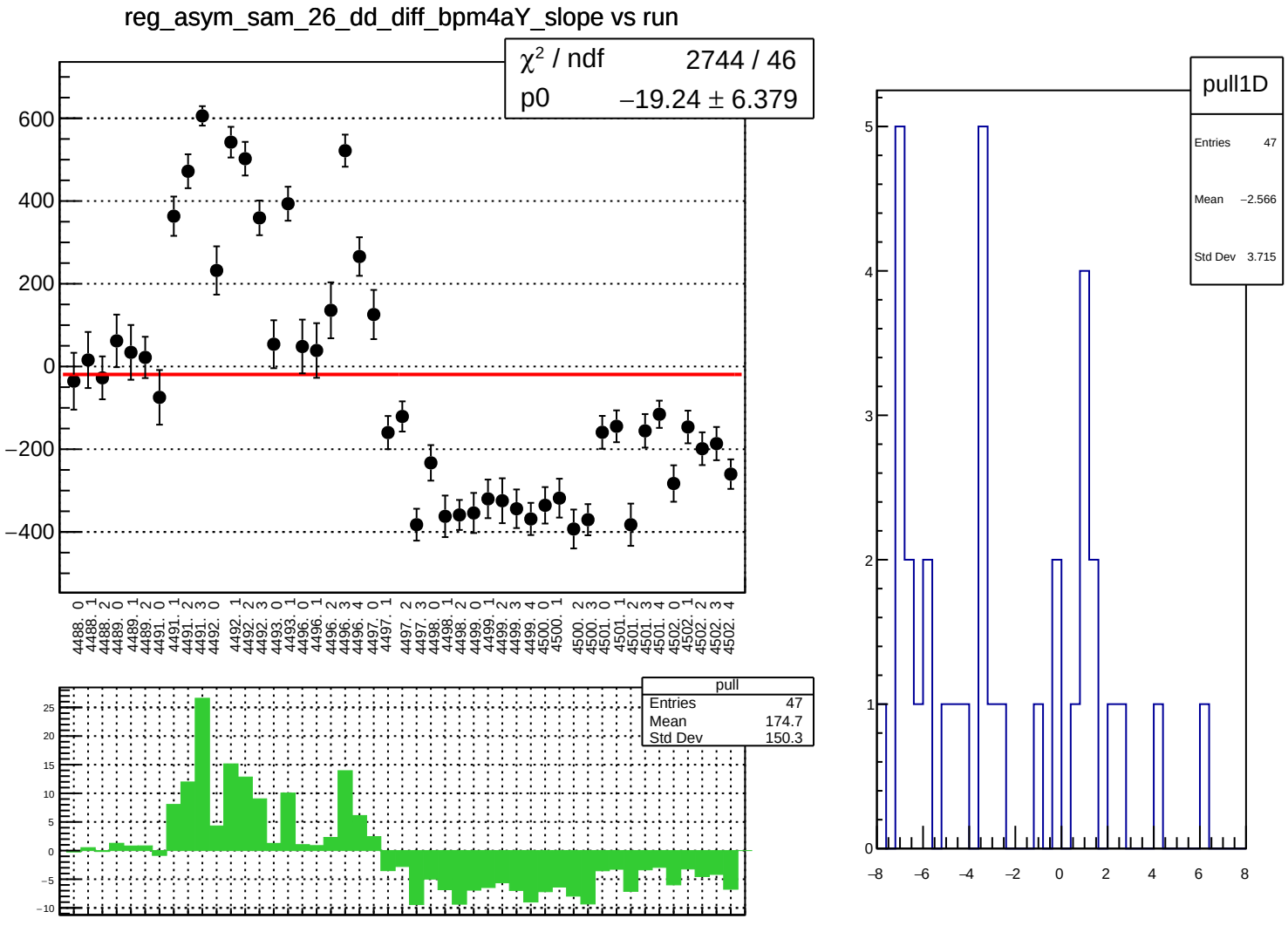

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 924.6 / 46
p0 −215.1 ± 0.5271
pull
Entries 47
Mean −63.97
Std Dev 85.81
pull1D
Entries 47
Mean 0.1125
Std Dev 3.907

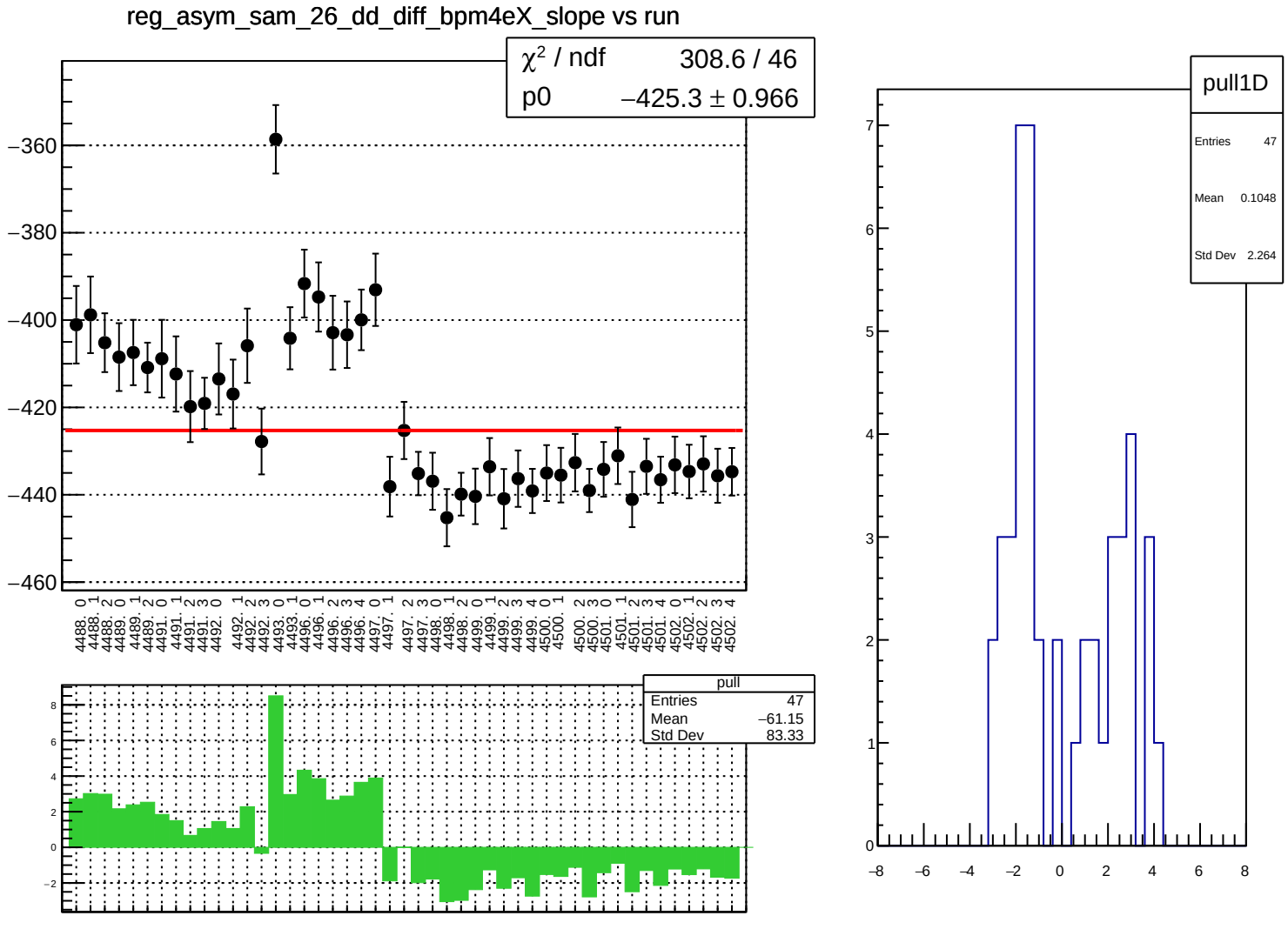

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1619 / 46
p0 −30.97 ± 3.977
pull
Entries 47
Mean 42.19
Std Dev 12

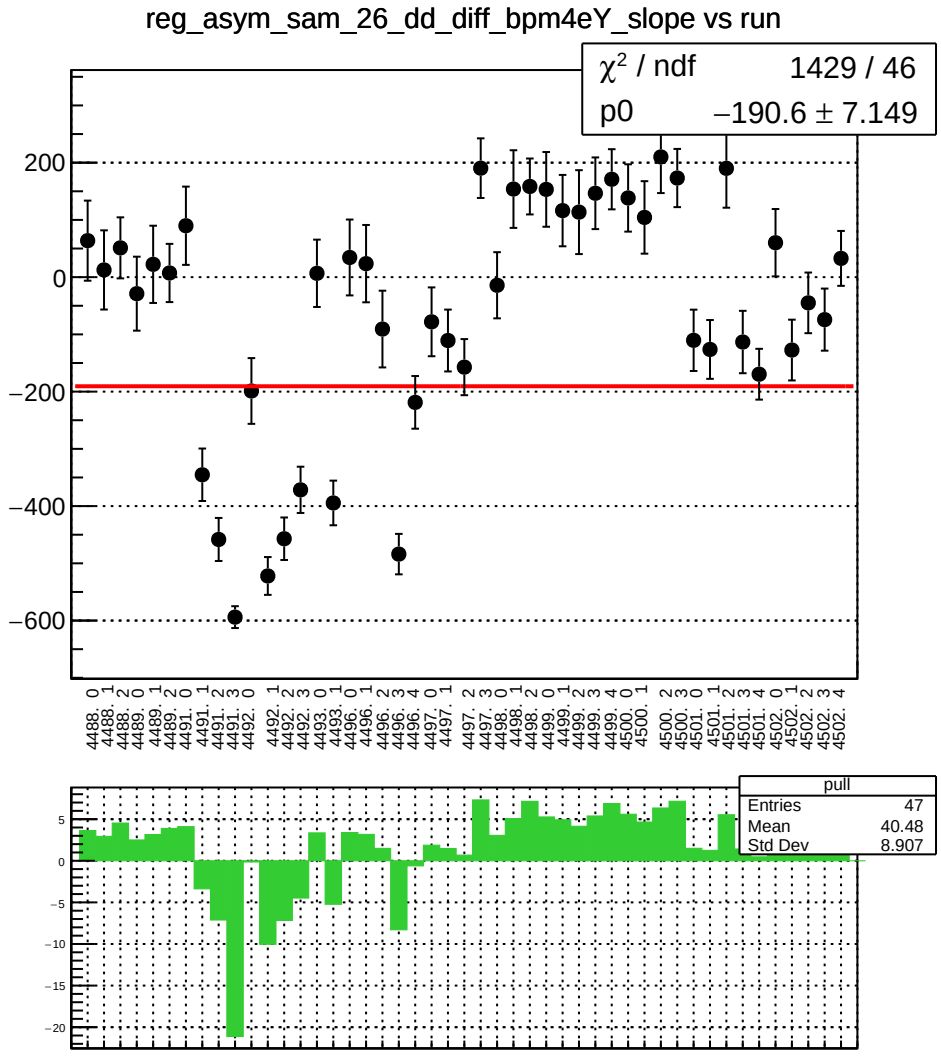

pull1D
Entries 47
Mean 2.621
Std Dev 3.359

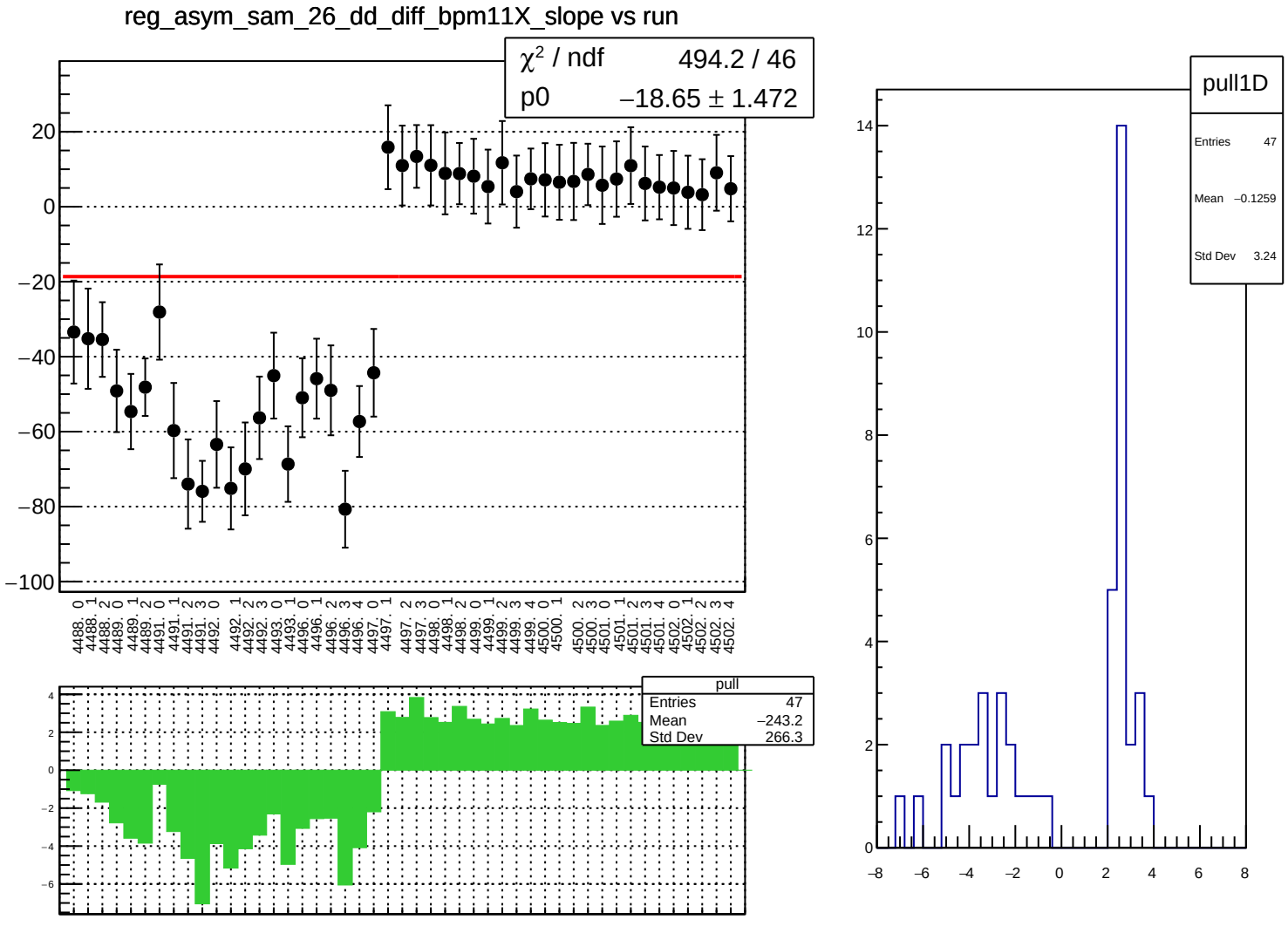

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 862.4 / 46
p0 −8.109 ± 0.8071
pull
Entries 47
Mean −114.9
Std Dev 137.5
pull1D
Entries 47
Mean −0.1465
Std Dev 4.135

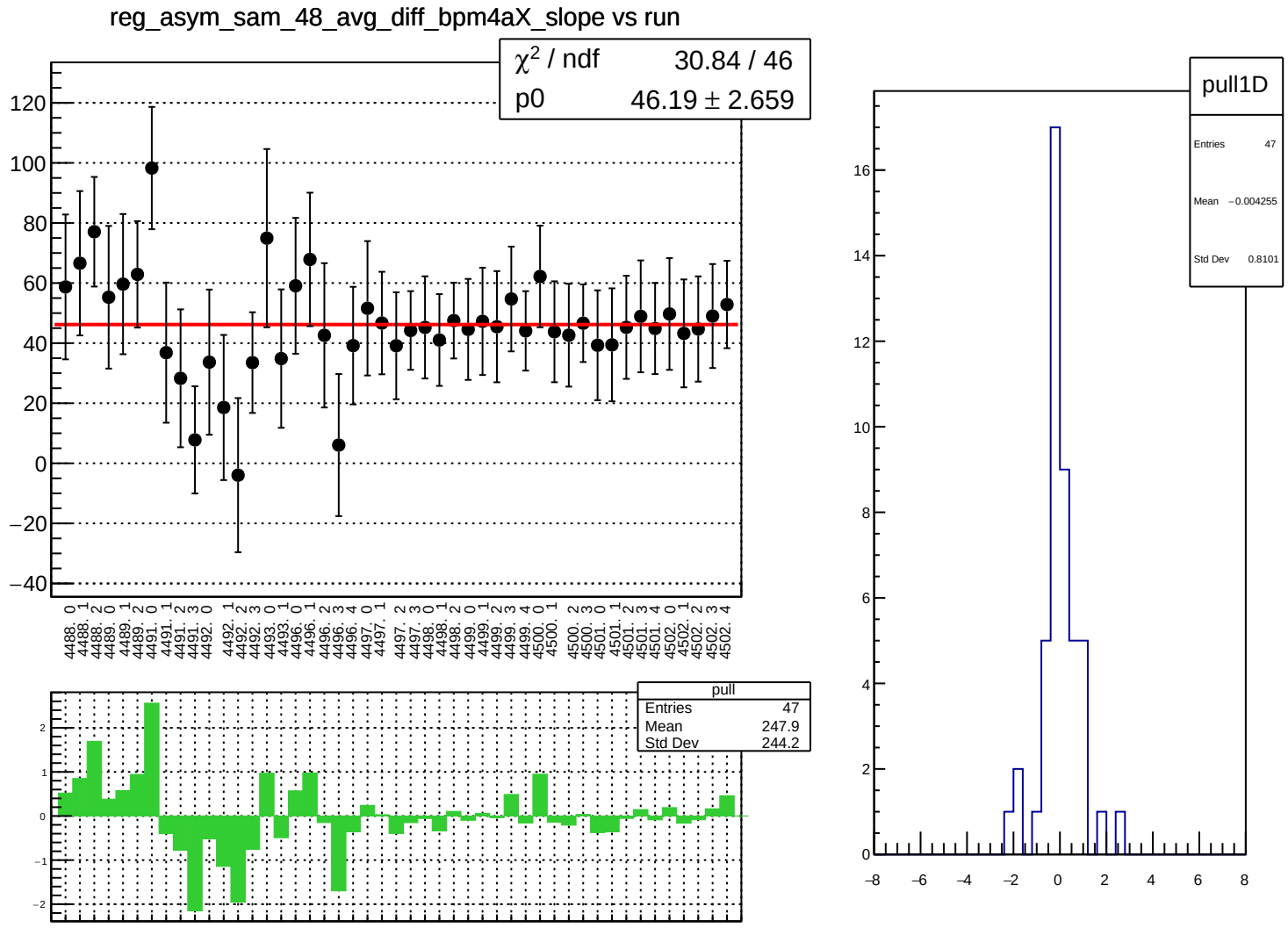

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 765.6 / 46
p0 −42.54 ± 5.725
100
0
−100
−200
−300
−400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −93.05
Std Dev 115.5
4
2
0
−2
−4
−6
pull1D
Entries 47
Mean −0.3895
Std Dev 4.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

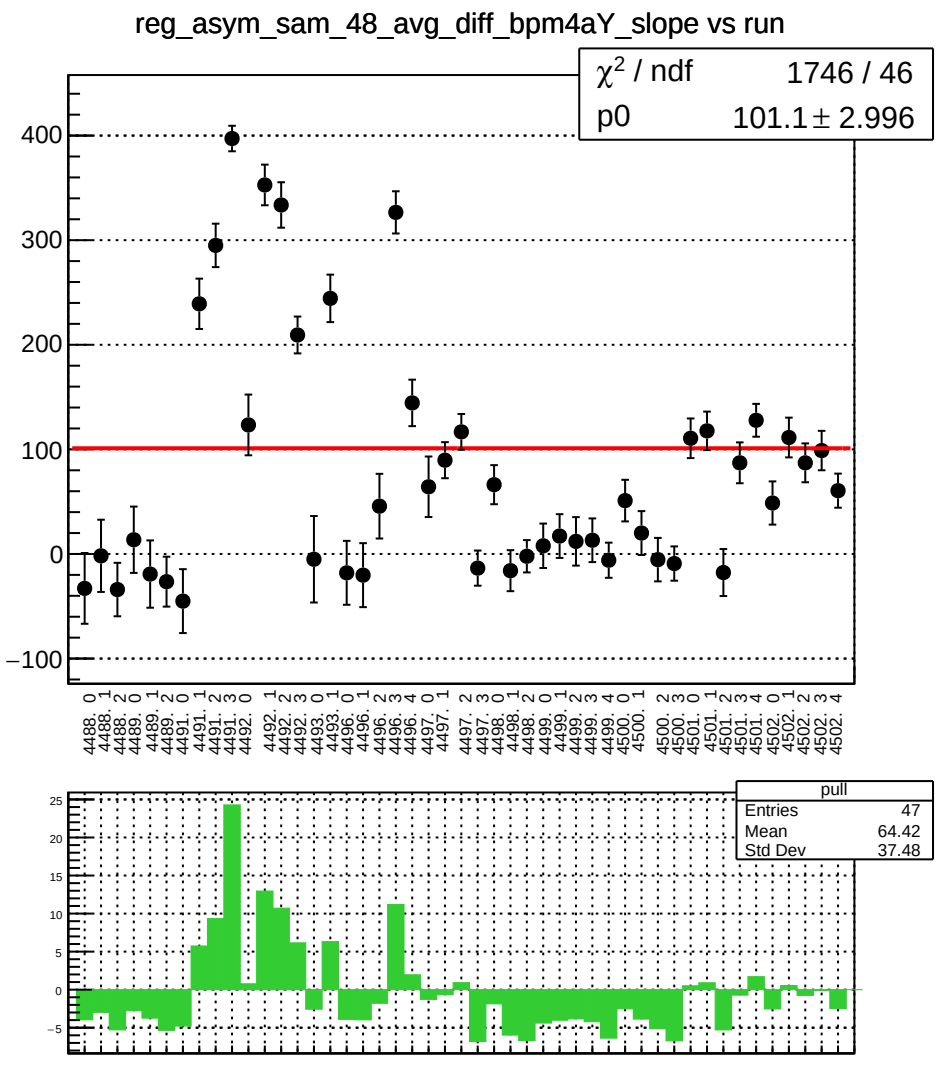

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2744 / 46
p0 −19.24 ± 6.379
600
400
200
0
−200
−400
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 174.7
Std Dev 150.3
25
20
15
10
5
0
−5
−10
pull1D
Entries 47
Mean −2.566
Std Dev 3.715
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

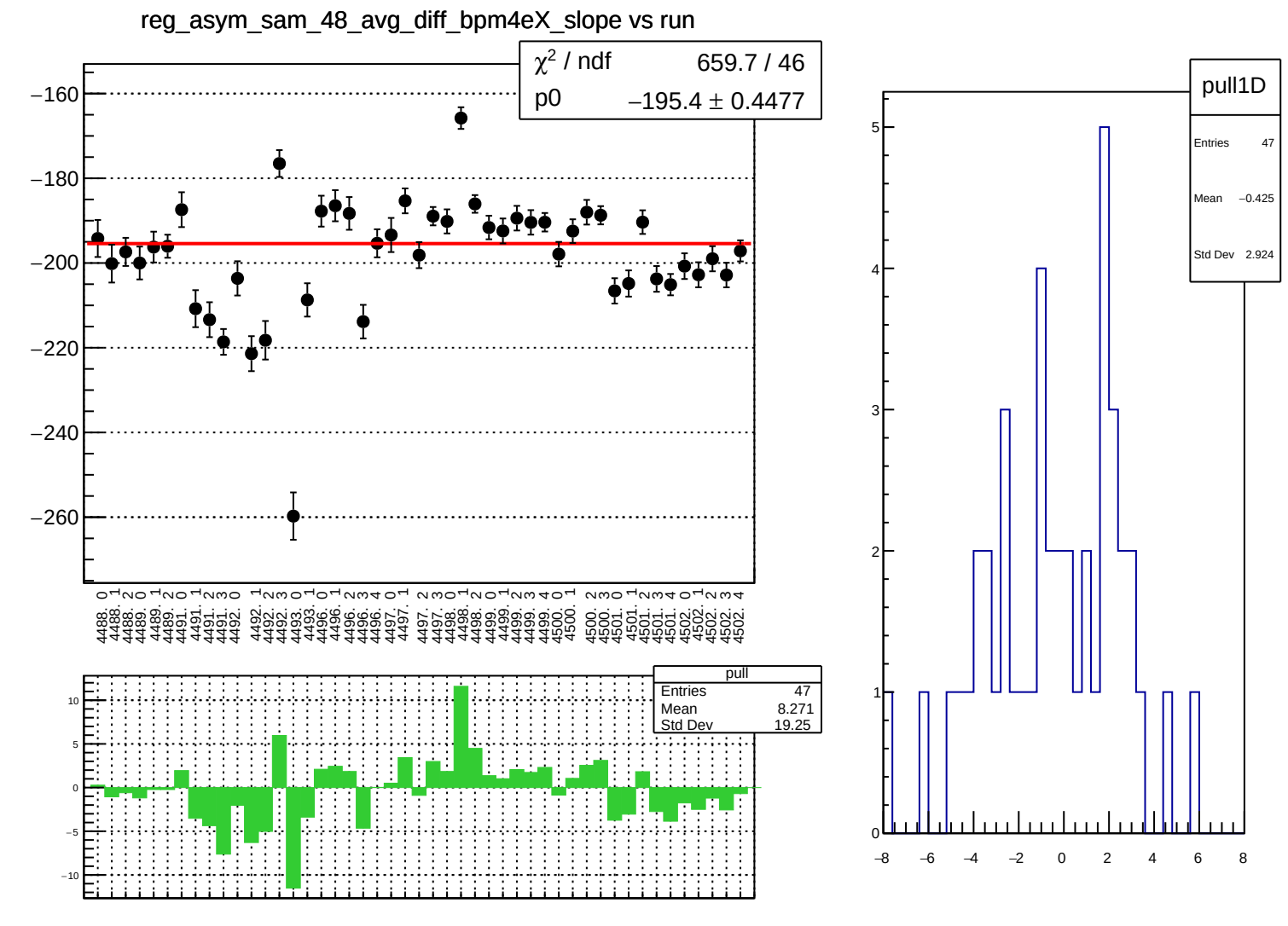

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 308.6 / 46
p0 −425.3 ± 0.966
pull
Entries 47
Mean −61.15
Std Dev 83.33
pull1D
Entries 47
Mean 0.1048
Std Dev 2.264

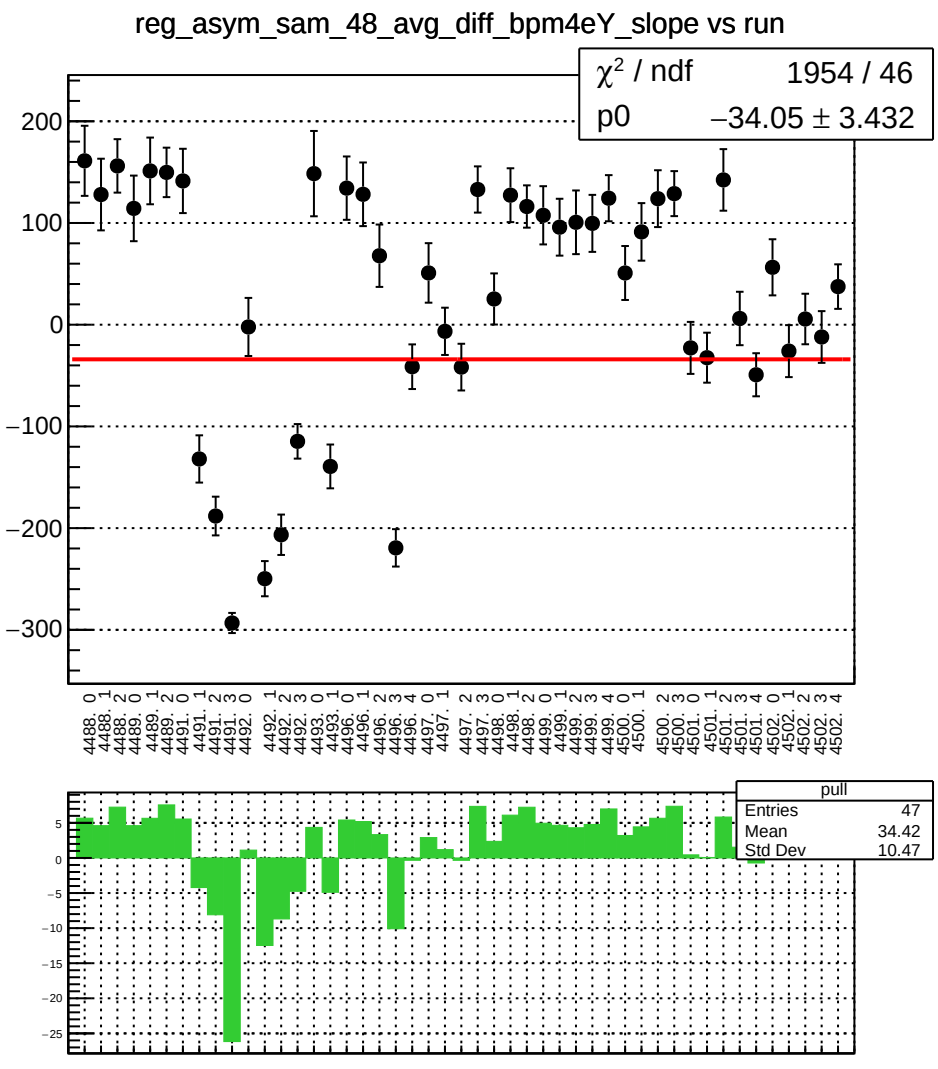

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1429 / 46
p0 −190.6 ± 7.149
200
0
−200
−400
−600
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4489. 3
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 40.48
Std Dev 8.907
5
0
−5
−10
−15
−20
pull1D
Entries 47
Mean 2.505
Std Dev 3.493
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

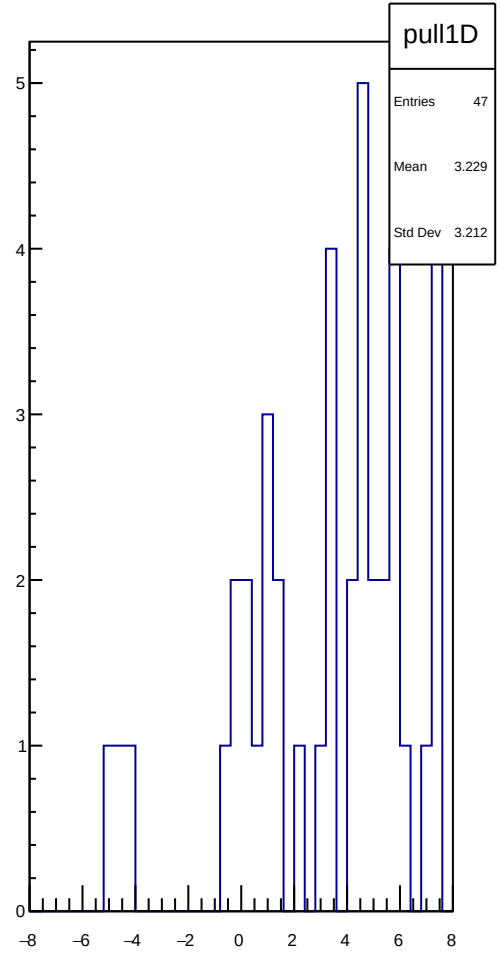

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 494.2 / 46
p0 −18.65 ± 1.472
pull
Entries 47
Mean −243.2
Std Dev 266.3
pull1D
Entries 47
Mean −0.1259
Std Dev 3.24

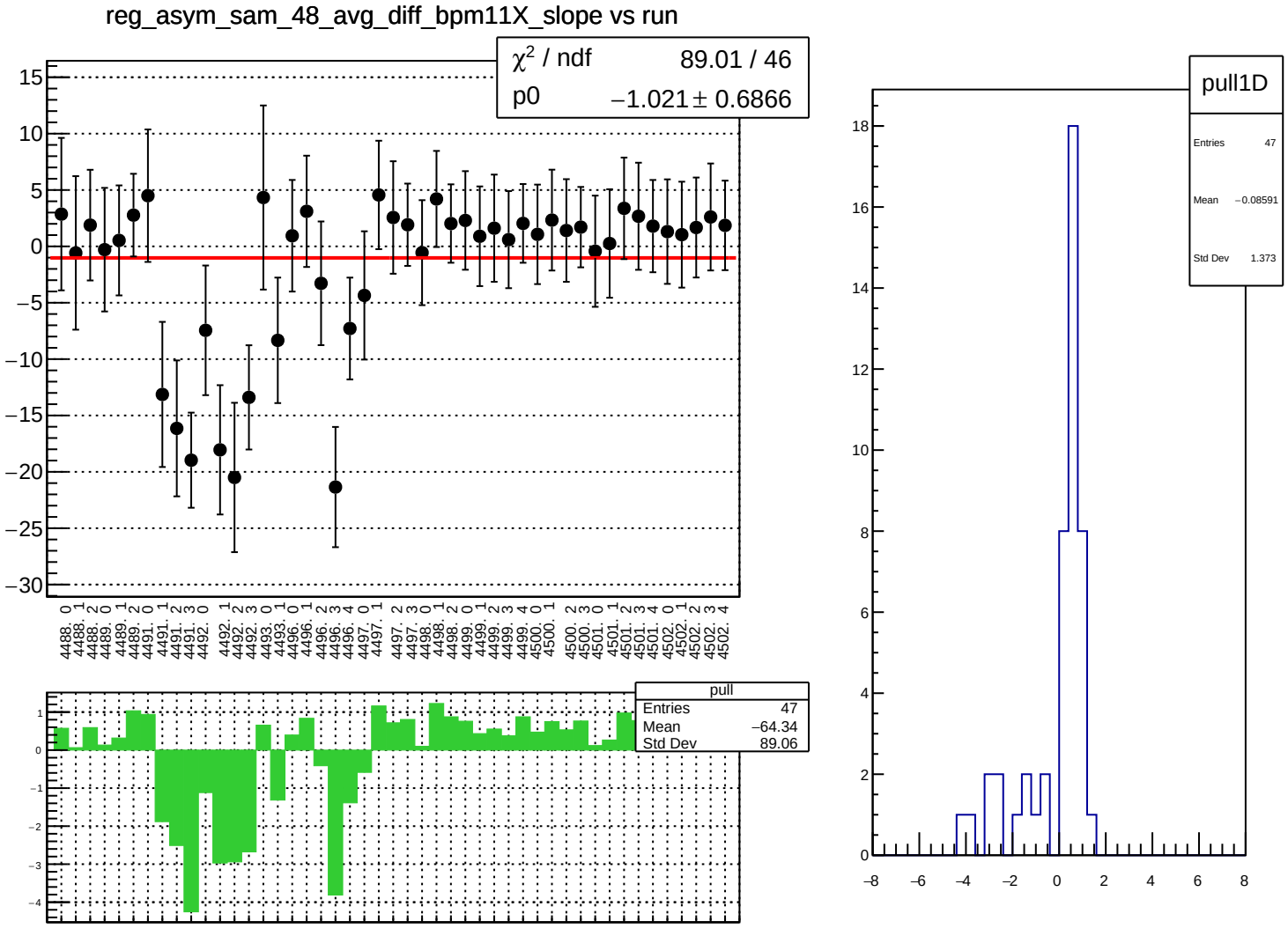

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.84 / 46
p0 46.19 ± 2.659
pull
Entries 47
Mean 247.9
Std Dev 244.2
pull1D
Entries 47
Mean −0.004255
Std Dev 0.8101

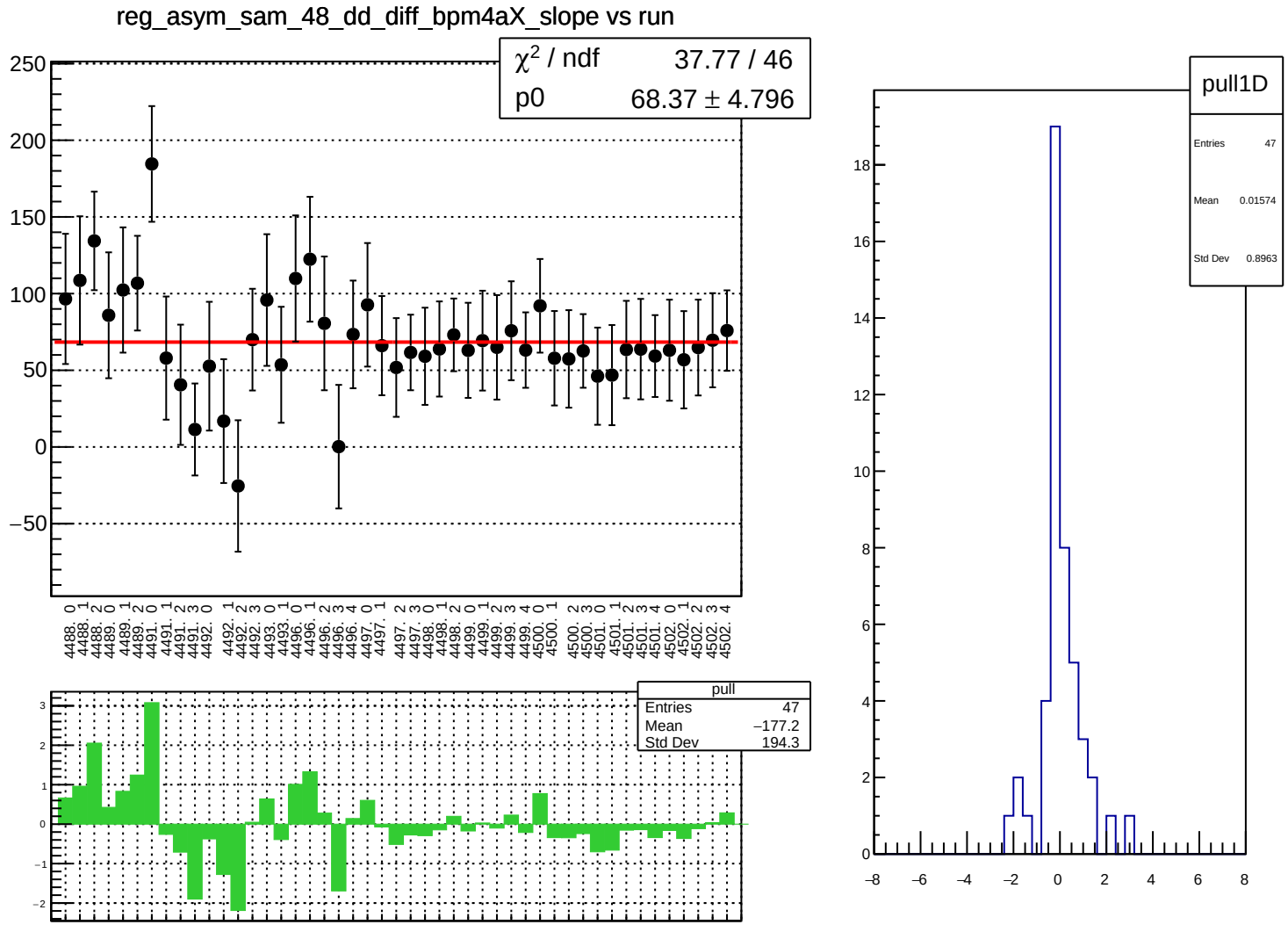

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1746 / 46
p0 101.1 ± 2.996
400
300
200
100
0
−100
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 64.42
Std Dev 37.48
25
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.185
Std Dev 3.313
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

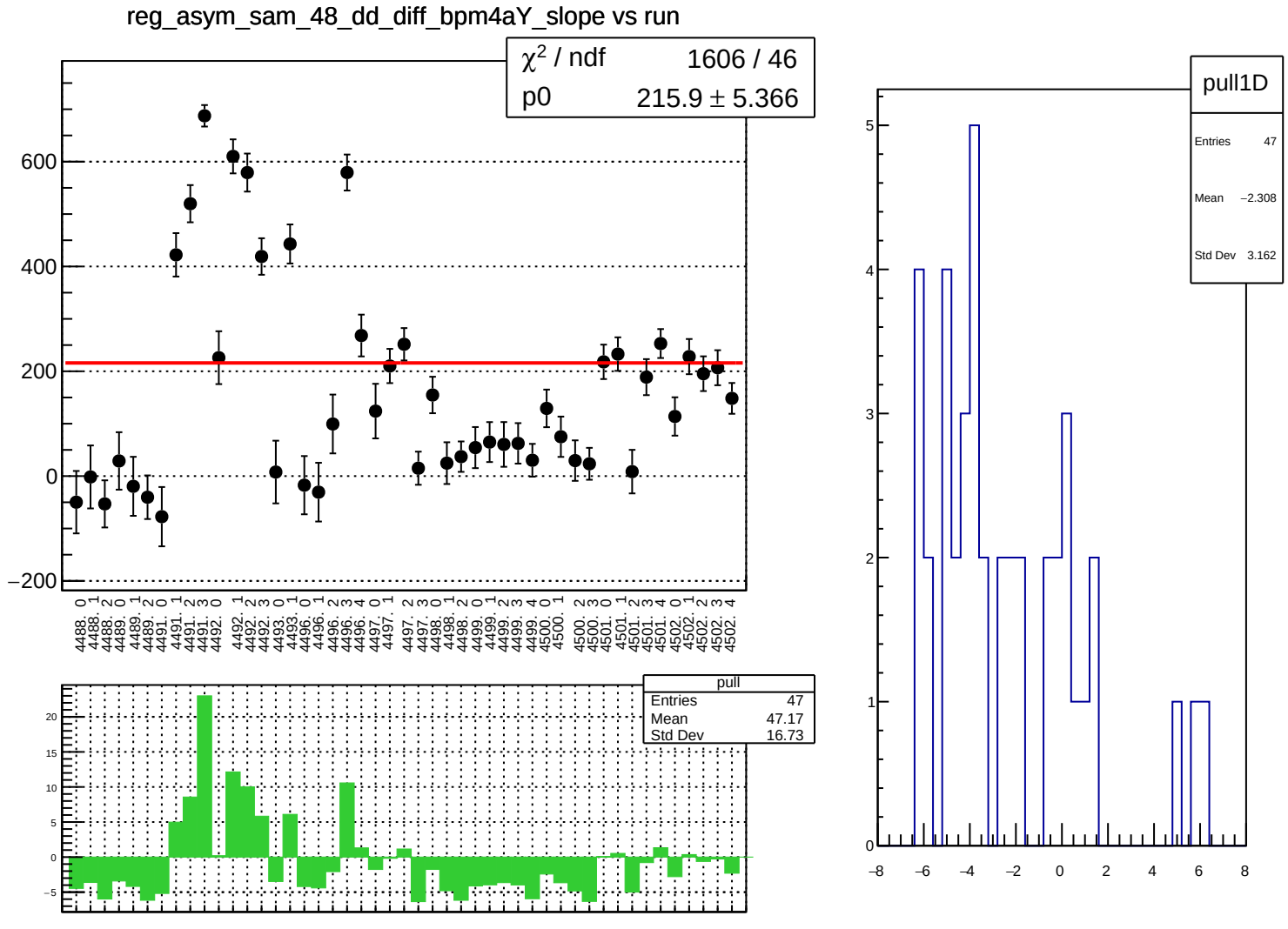

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 659.7 / 46
p0 −195.4 ± 0.4477
−160
−180
−200
−220
−240
−260
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 8.271
Std Dev 19.25
10
5
0
−5
−10
pull1D
Entries 47
Mean −0.425
Std Dev 2.924
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

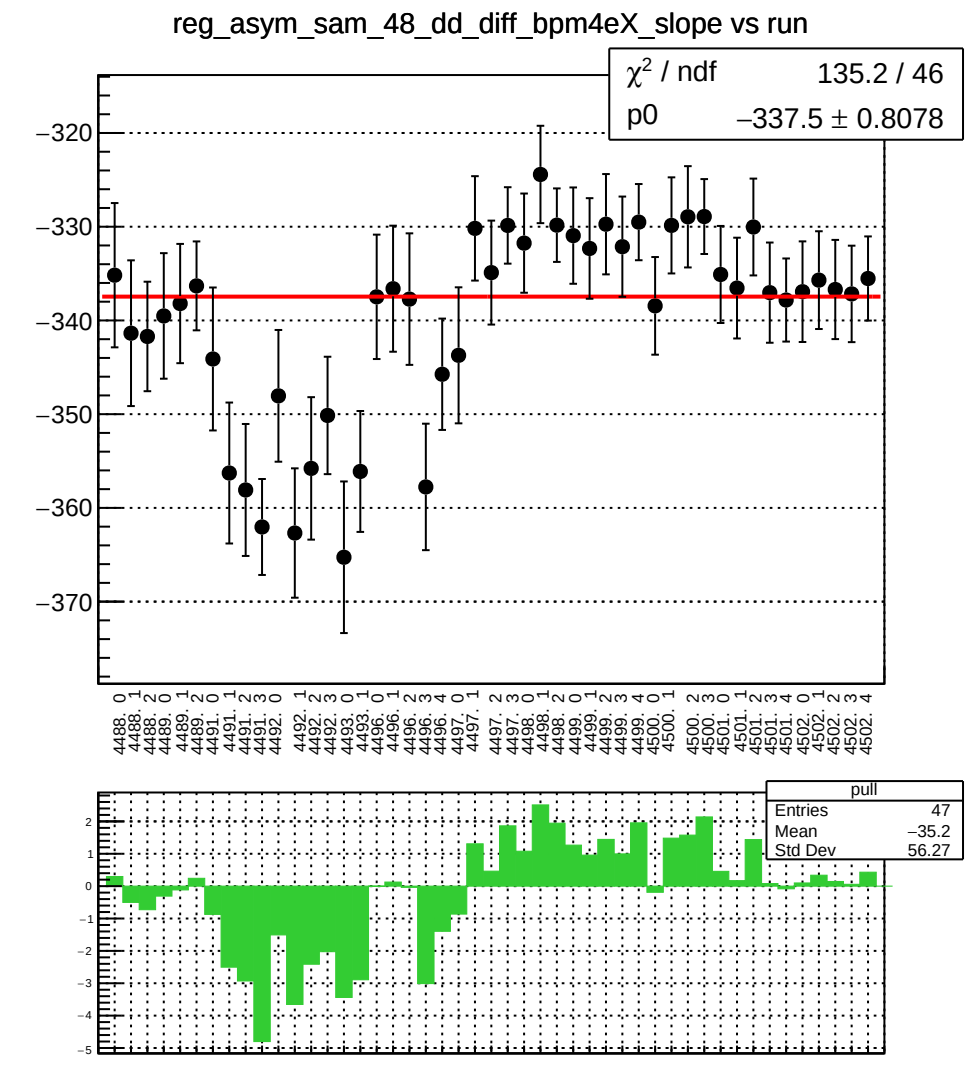

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1954 / 46
p0 −34.05 ± 3.432
pull
Entries 47
Mean 34.42
Std Dev 10.47

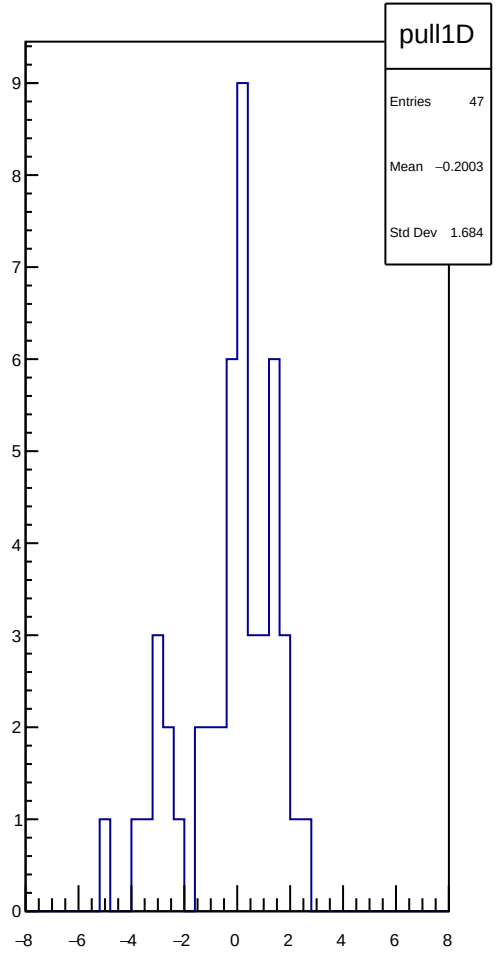

pull1D
Entries 47
Mean 3.229
Std Dev 3.212

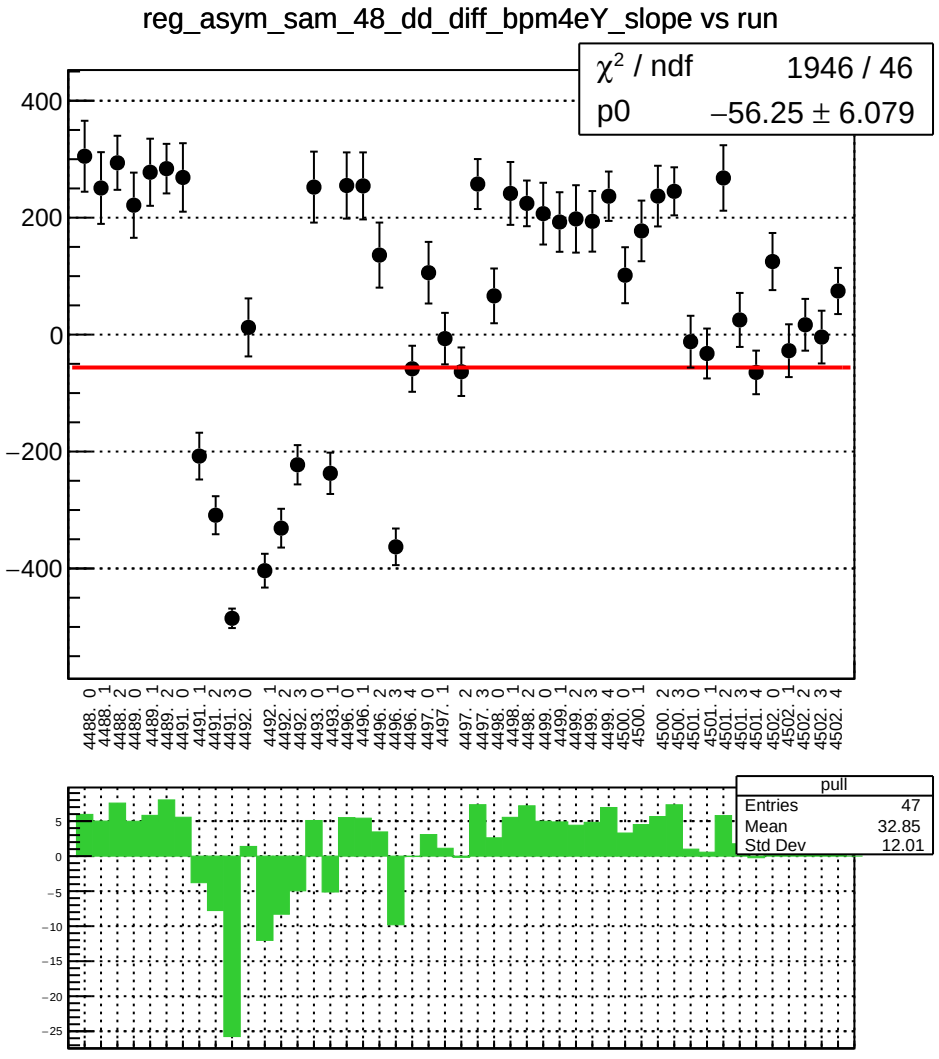

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 89.01 / 46
p0 −1.021 ± 0.6866
pull
Entries 47
Mean −64.34
Std Dev 89.06
pull1D
Entries 47
Mean −0.08591
Std Dev 1.373

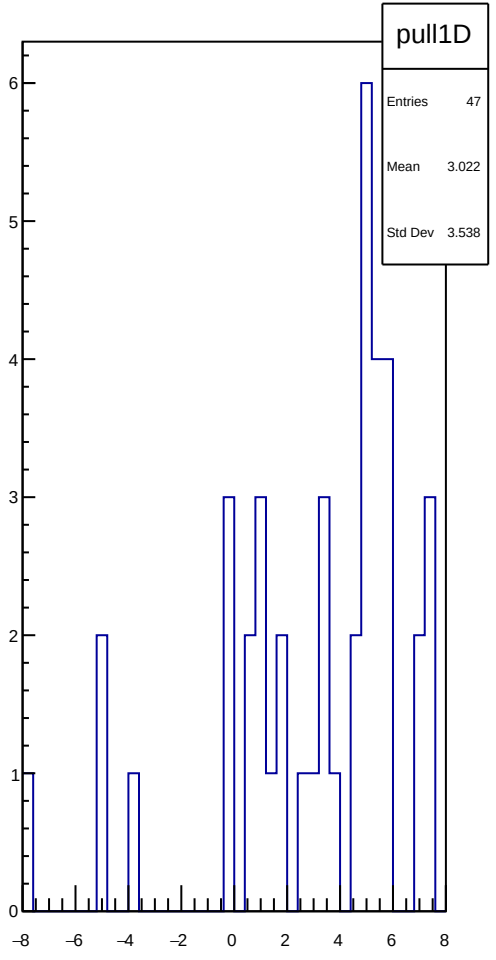

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 37.77 / 46
p0 68.37 ± 4.796
pull
Entries 47
Mean −177.2
Std Dev 194.3
pull1D
Entries 47
Mean 0.01574
Std Dev 0.8963

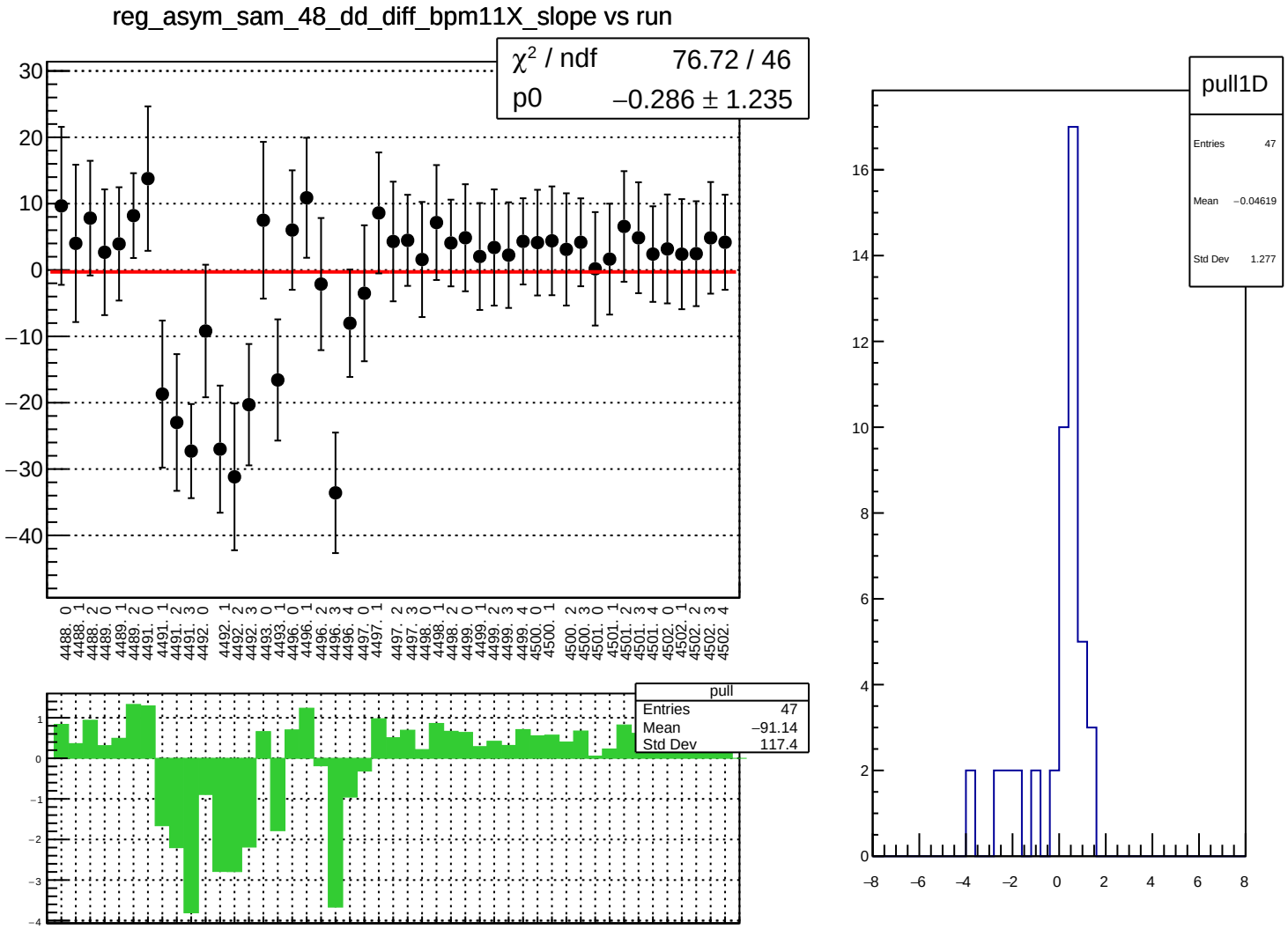

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1606 / 46
p0 215.9 ± 5.366
600
400
200
0
−200
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean 47.17
Std Dev 16.73
20
15
10
5
0
−5
pull1D
Entries 47
Mean −2.308
Std Dev 3.162
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

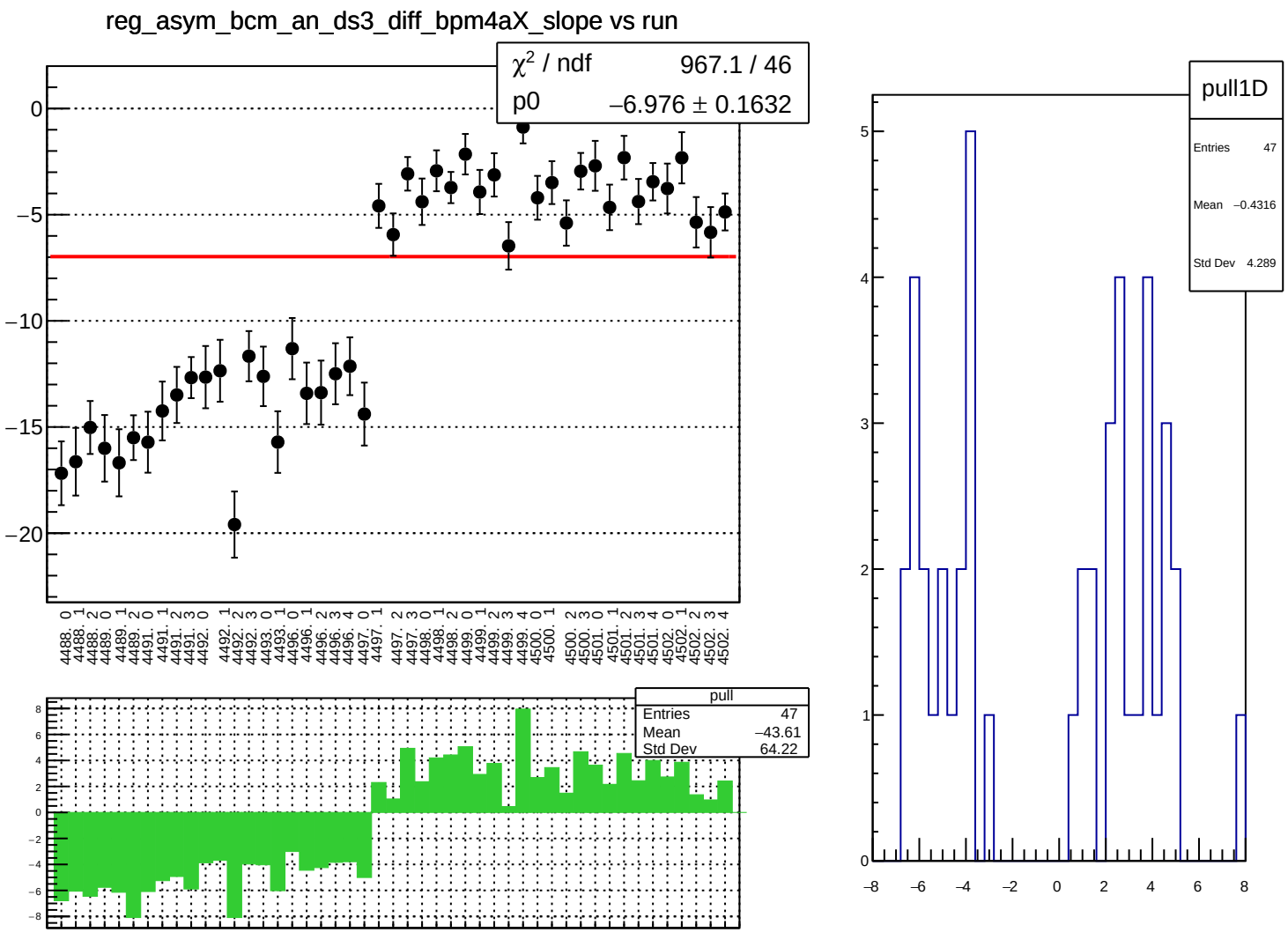

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 135.2 / 46
p0 −337.5 ± 0.8078
pull
Entries 47
Mean −35.2
Std Dev 56.27

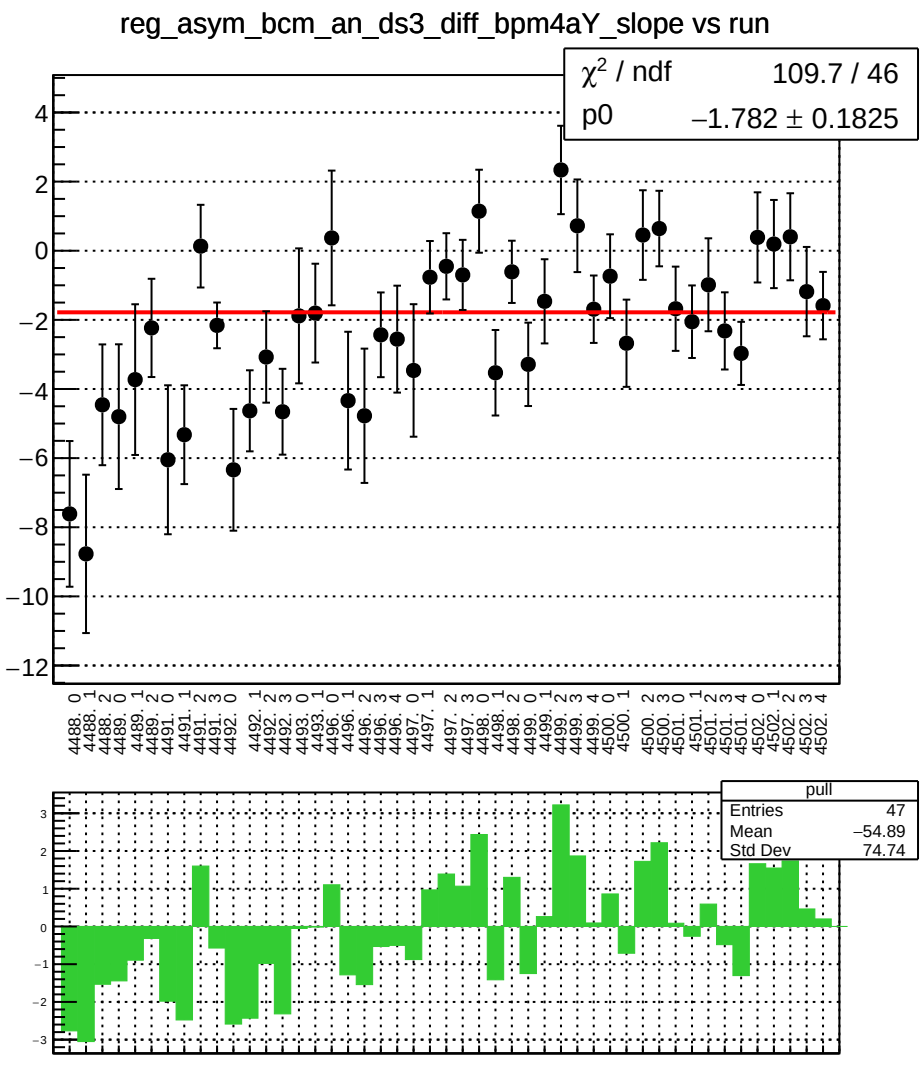

pull1D
Entries 47
Mean −0.2003
Std Dev 1.684

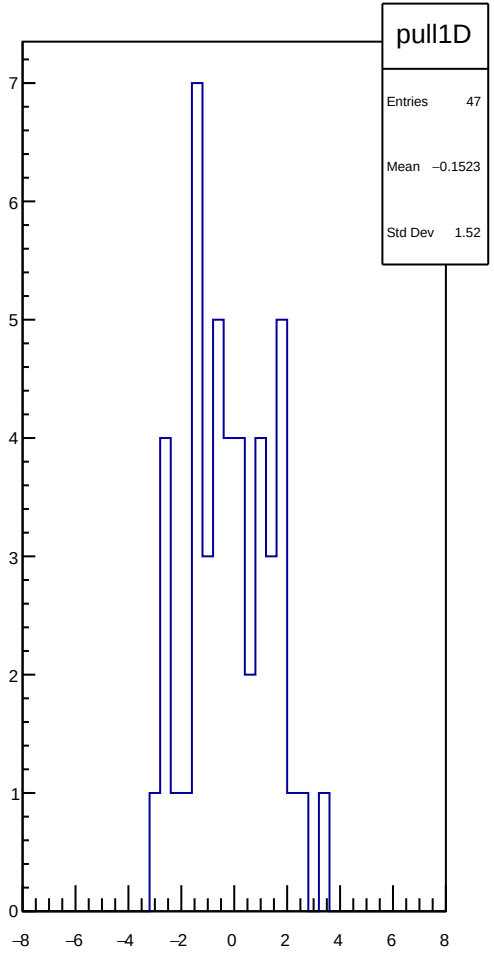

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1946 / 46
p0 −56.25 ± 6.079
400
200
0
−200
−400
pull
Entries 47
Mean 32.85
Std Dev 12.01
5
0
−5
−10
−15
−20
−25

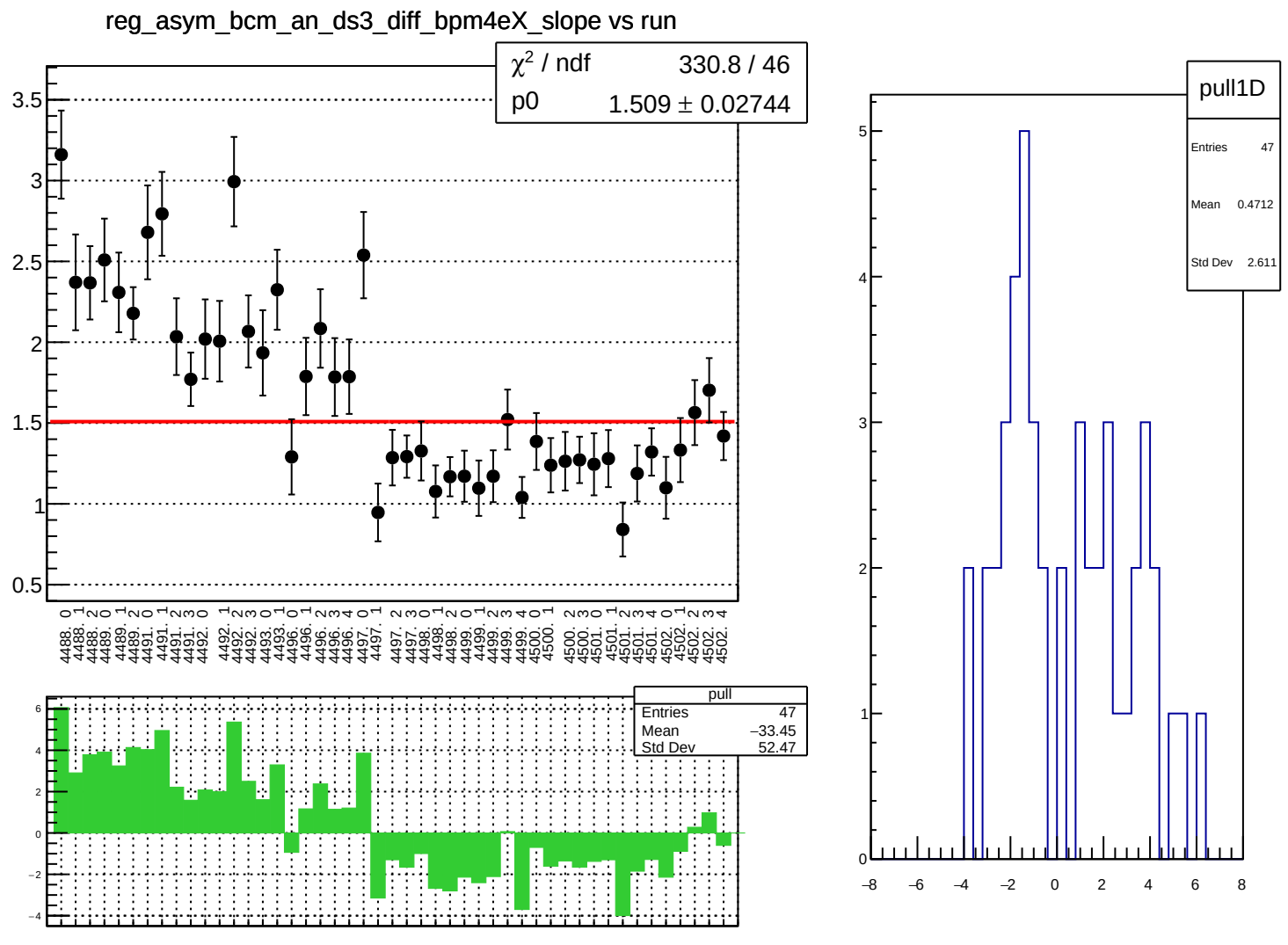

pull1D
Entries 47
Mean 3.022
Std Dev 3.538
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

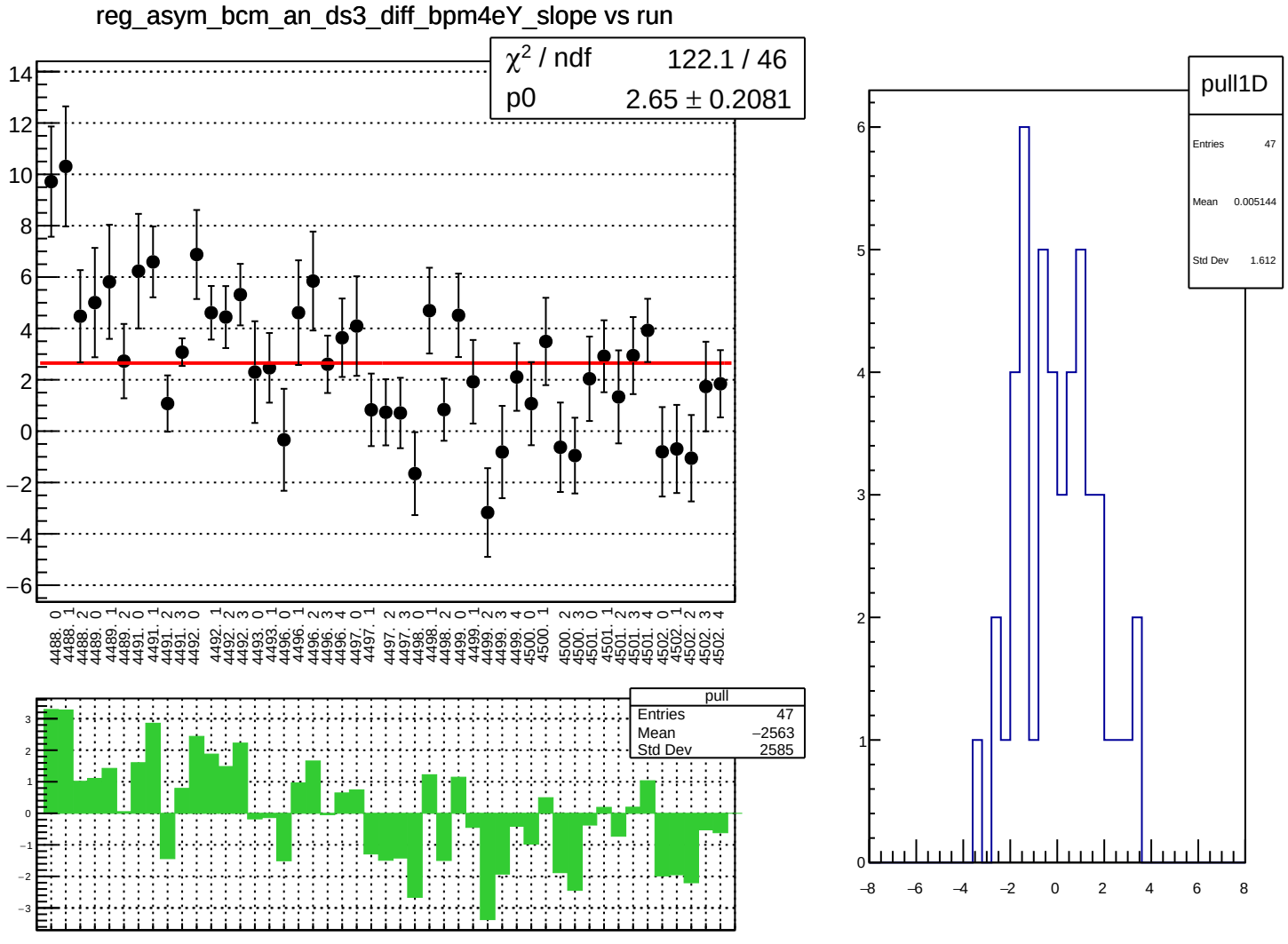

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 76.72 / 46
p0 −0.286 ± 1.235
pull
Entries 47
Mean −91.14
Std Dev 117.4
pull1D
Entries 47
Mean −0.04619
Std Dev 1.277

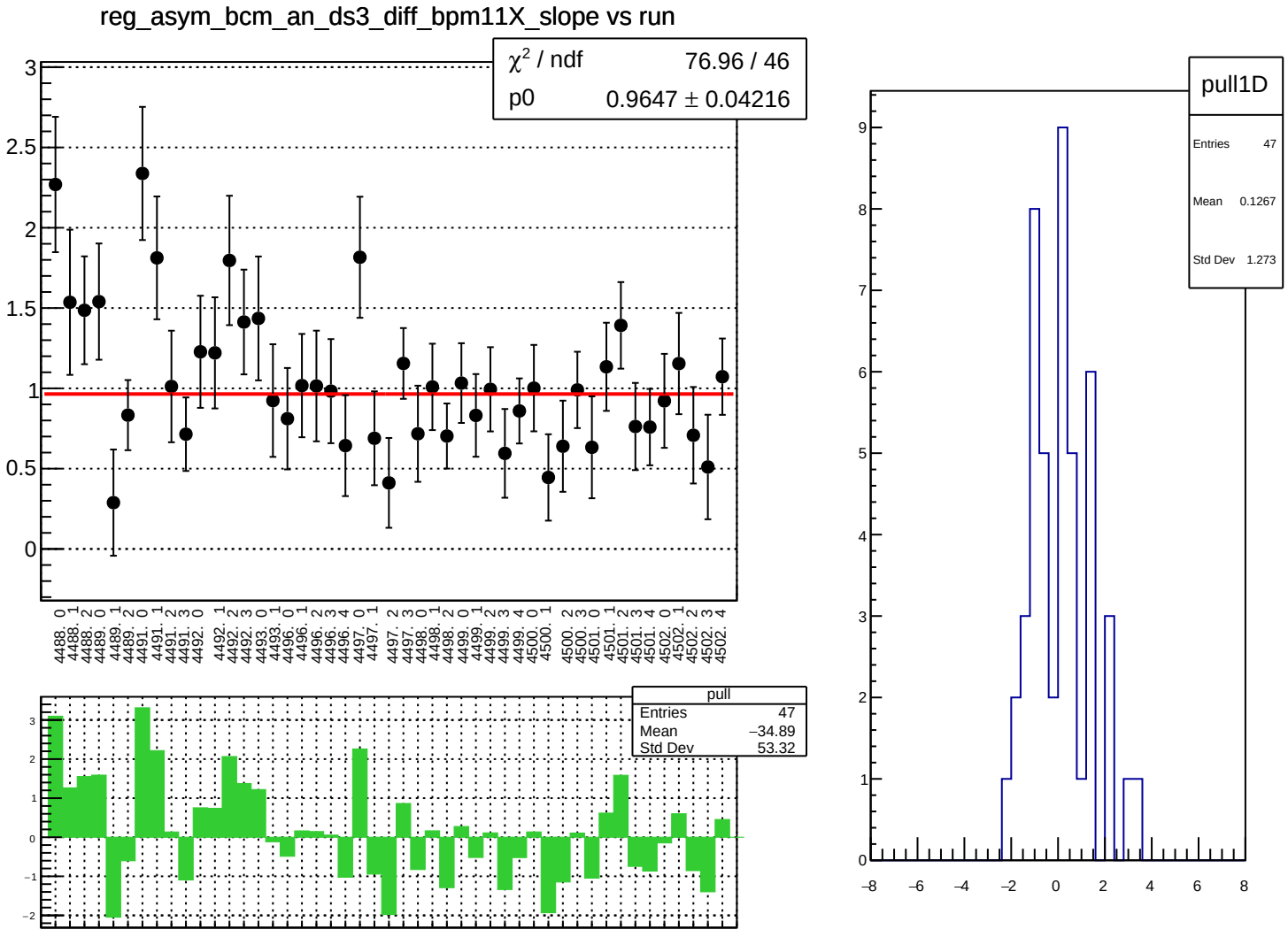

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 967.1 / 46
p0 −6.976 ± 0.1632
0
−5
−10
−15
−20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −43.61
Std Dev 64.22
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 47
Mean −0.4316
Std Dev 4.289
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

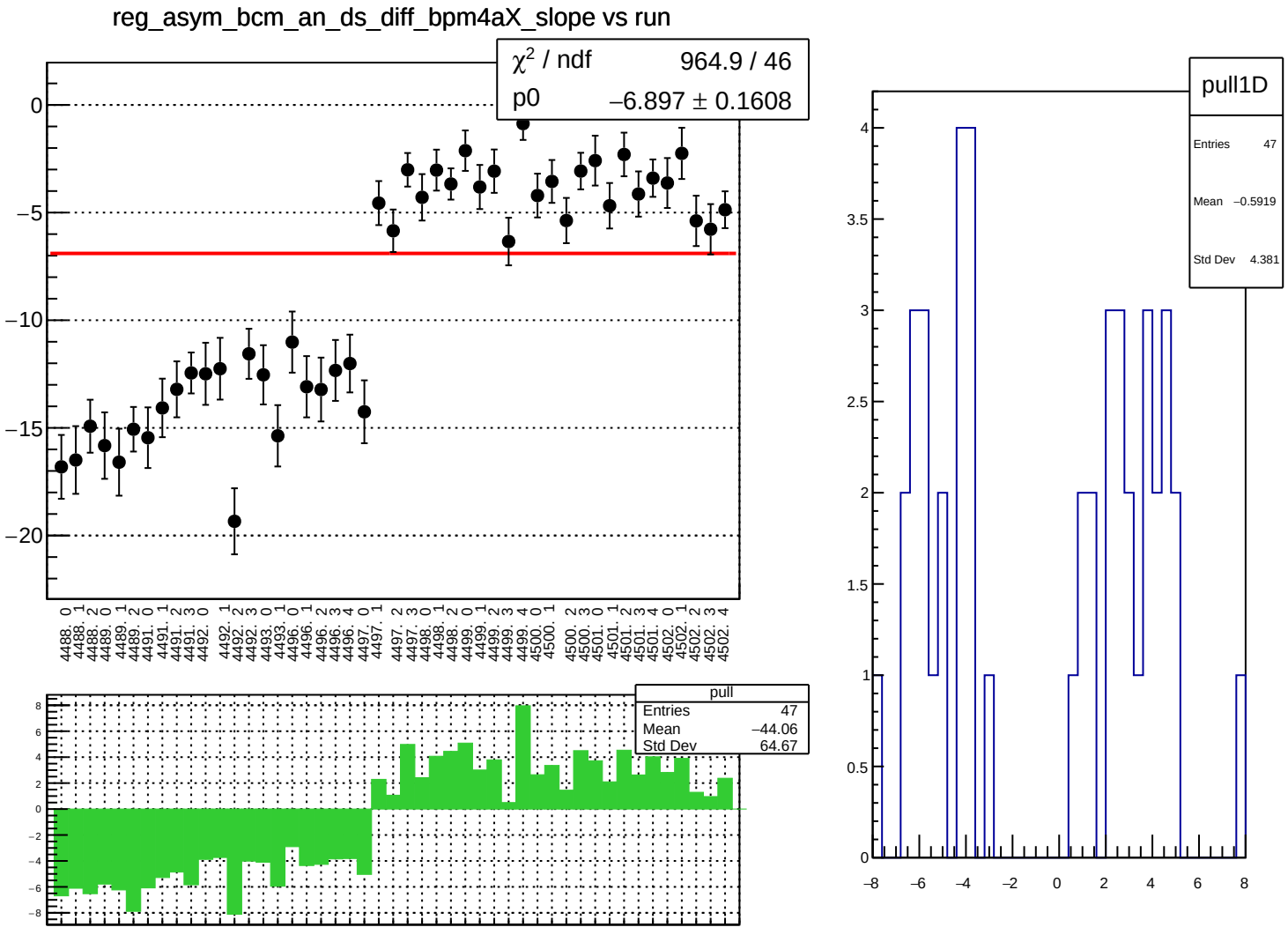

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 109.7 / 46
p0 −1.782 ± 0.1825
pull
Entries 47
Mean −54.89
Std Dev 74.74

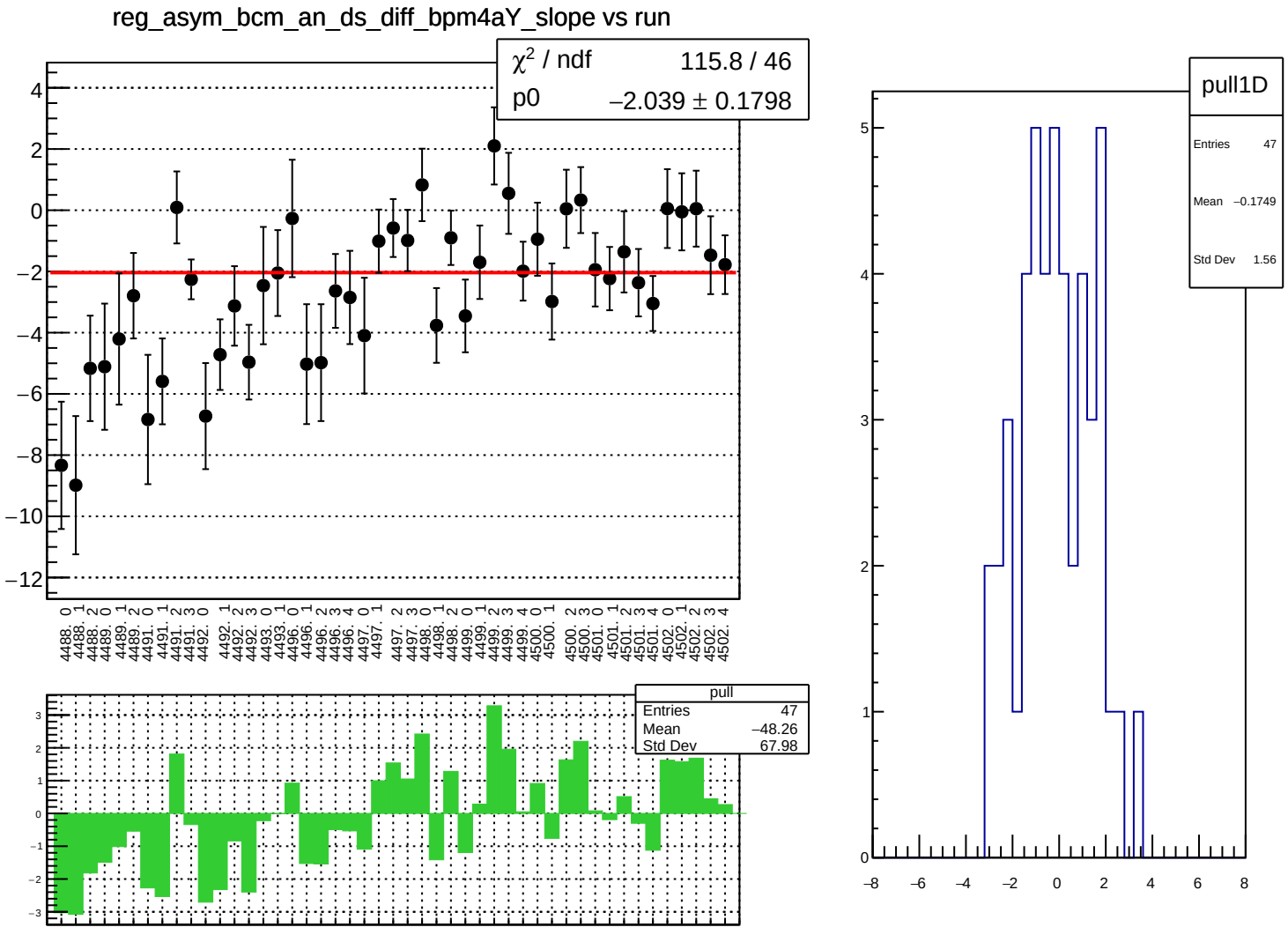

pull1D
Entries 47
Mean −0.1523
Std Dev 1.52

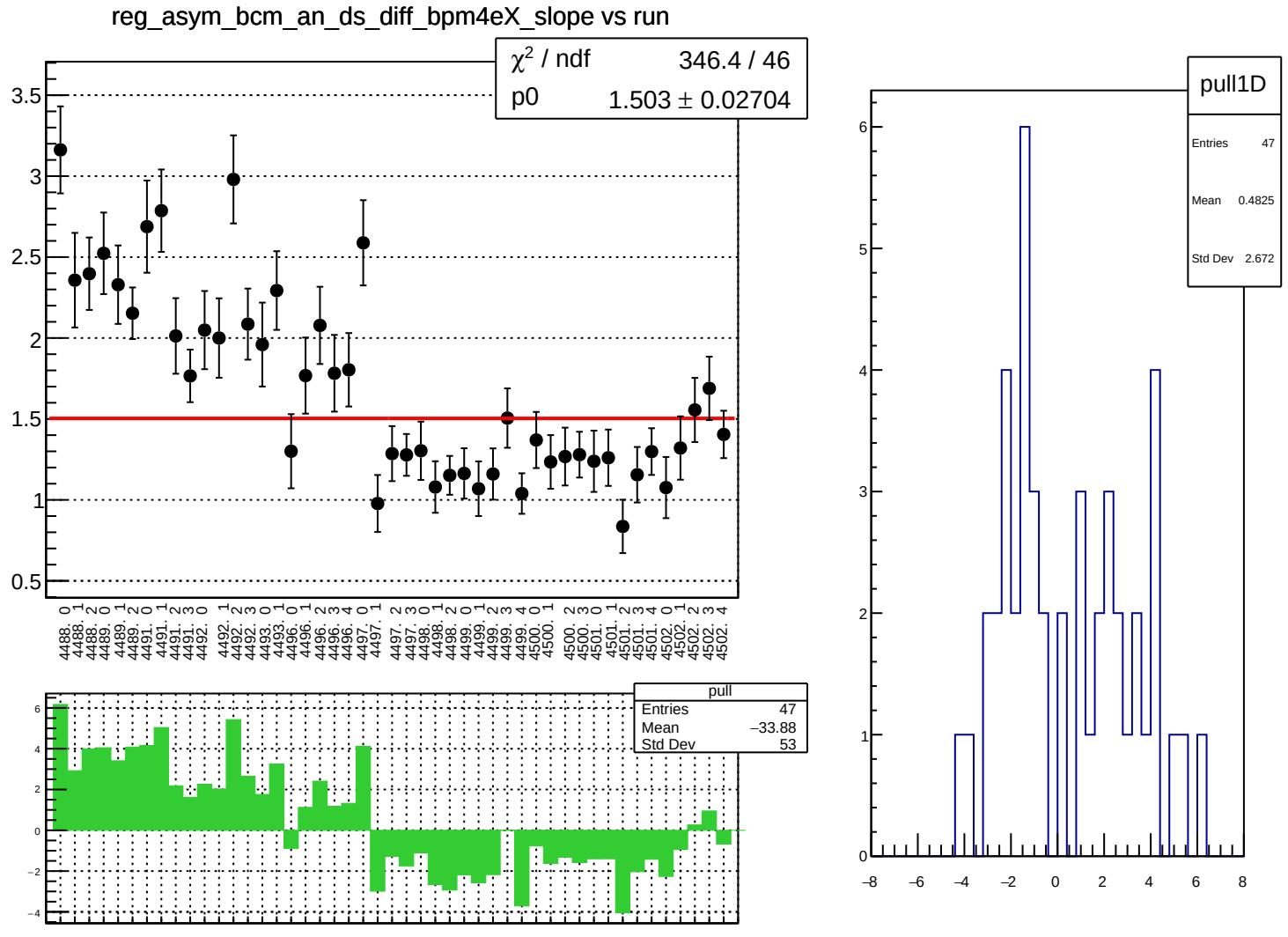

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 330.8 / 46
p0 1.509 ± 0.02744
pull
Entries 47
Mean −33.45
Std Dev 52.47
pull1D
Entries 47
Mean 0.4712
Std Dev 2.611

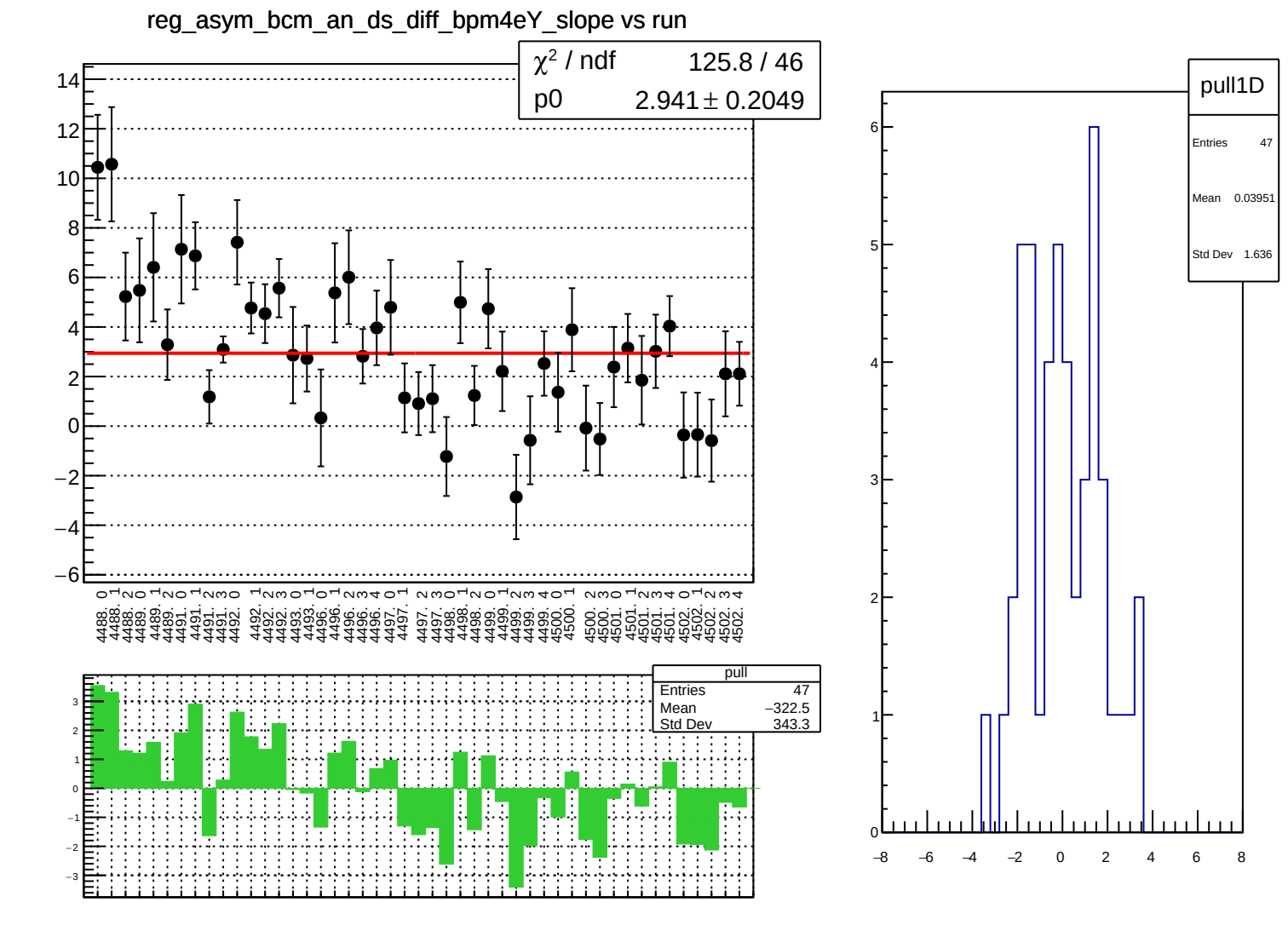

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 122.1 / 46
p0 2.65 ± 0.2081
pull
Entries 47
Mean −2563
Std Dev 2585
pull1D
Entries 47
Mean 0.005144
Std Dev 1.612

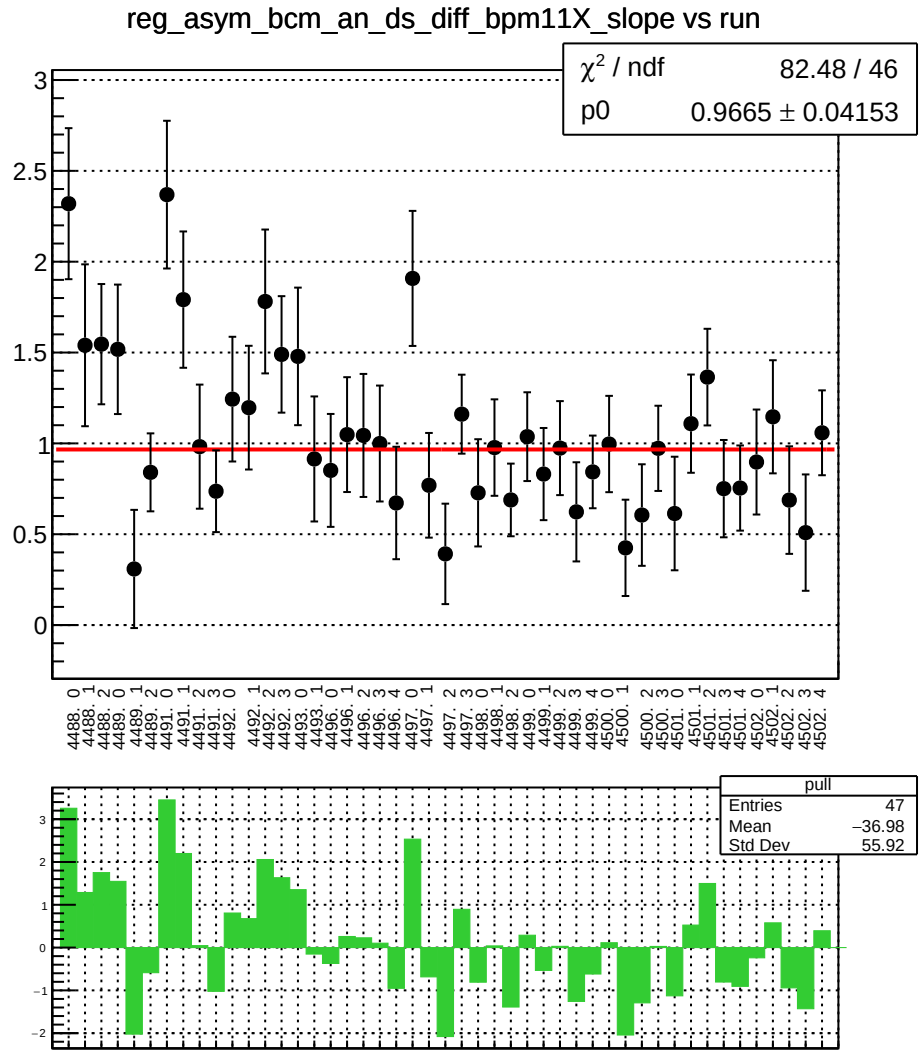

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 76.96 / 46
p0 0.9647 ± 0.04216
pull
Entries 47
Mean −34.89
Std Dev 53.32
pull1D
Entries 47
Mean 0.1267
Std Dev 1.273

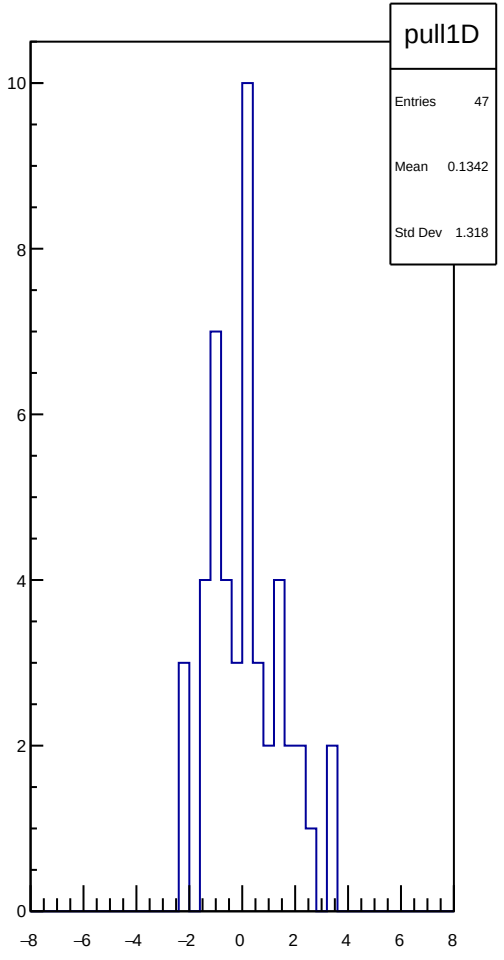

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 964.9 / 46
p0 −6.897 ± 0.1608
0
−5
−10
−15
−20
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −44.06
Std Dev 64.67
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 47
Mean −0.5919
Std Dev 4.381
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

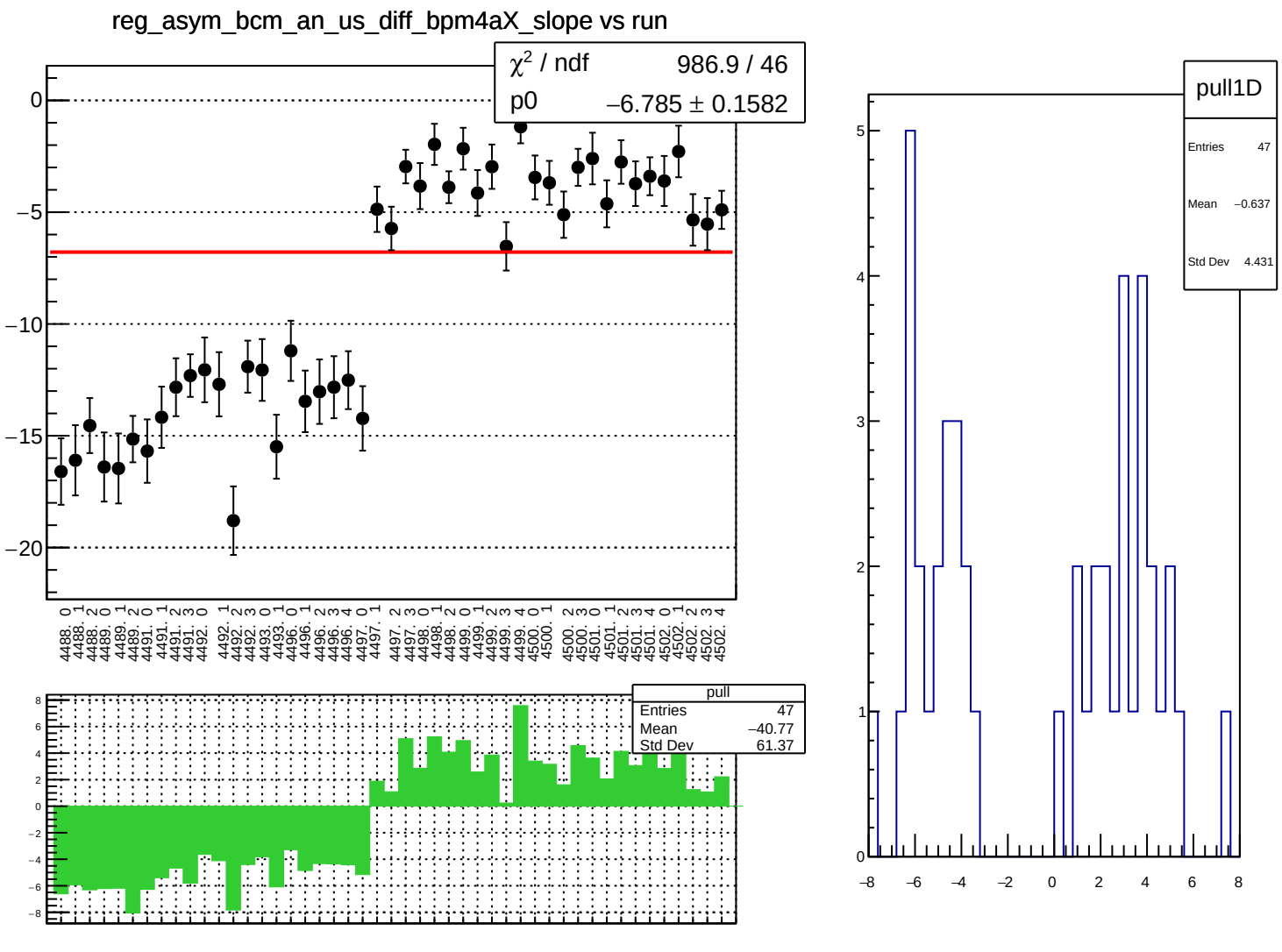

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 115.8 / 46
p0 −2.039 ± 0.1798
pull
Entries 47
Mean −48.26
Std Dev 67.98
pull1D
Entries 47
Mean −0.1749
Std Dev 1.56

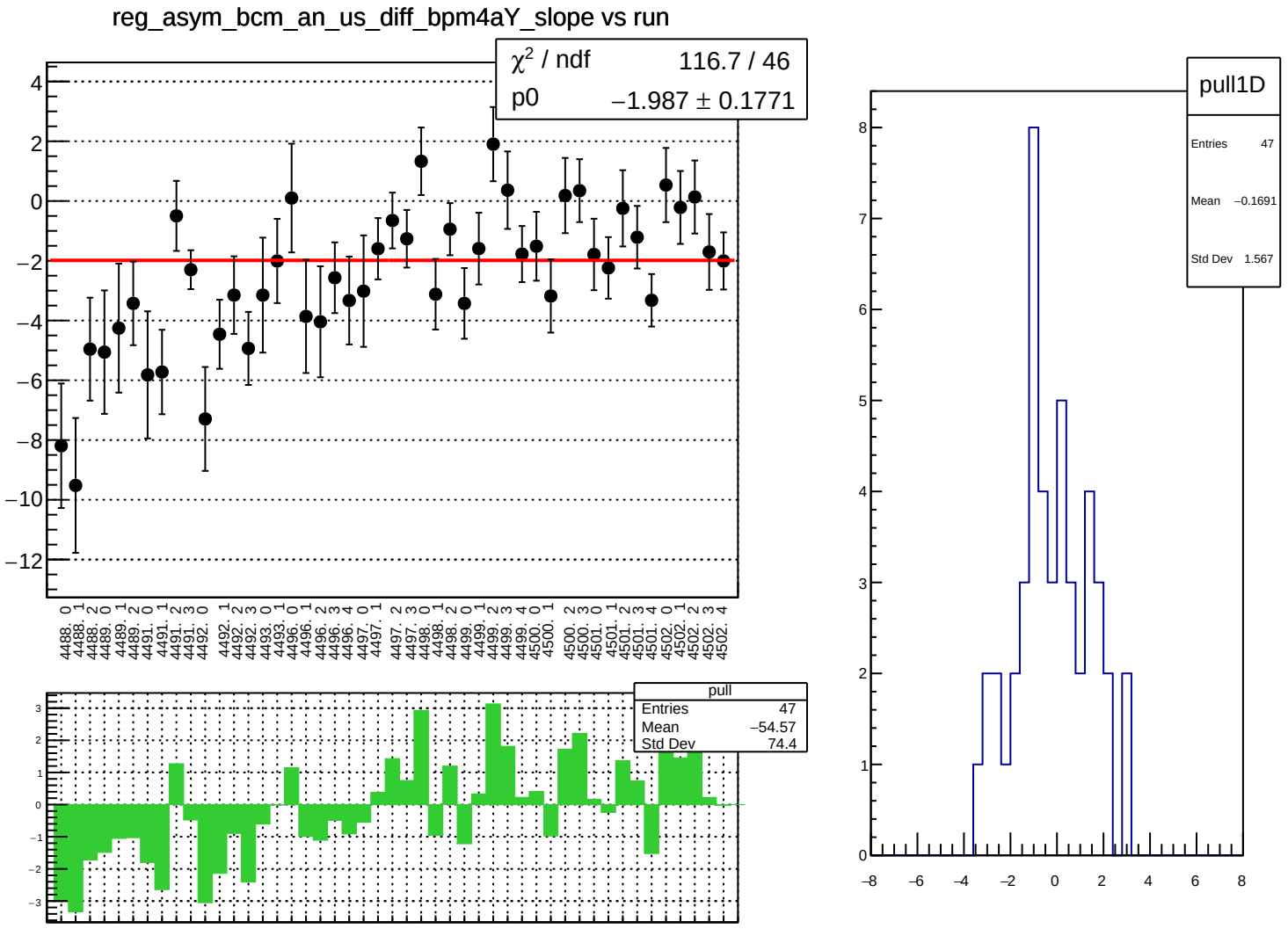

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 346.4 / 46
p0 1.503 ± 0.02704
pull
Entries 47
Mean −33.88
Std Dev 53
pull1D
Entries 47
Mean 0.4825
Std Dev 2.672

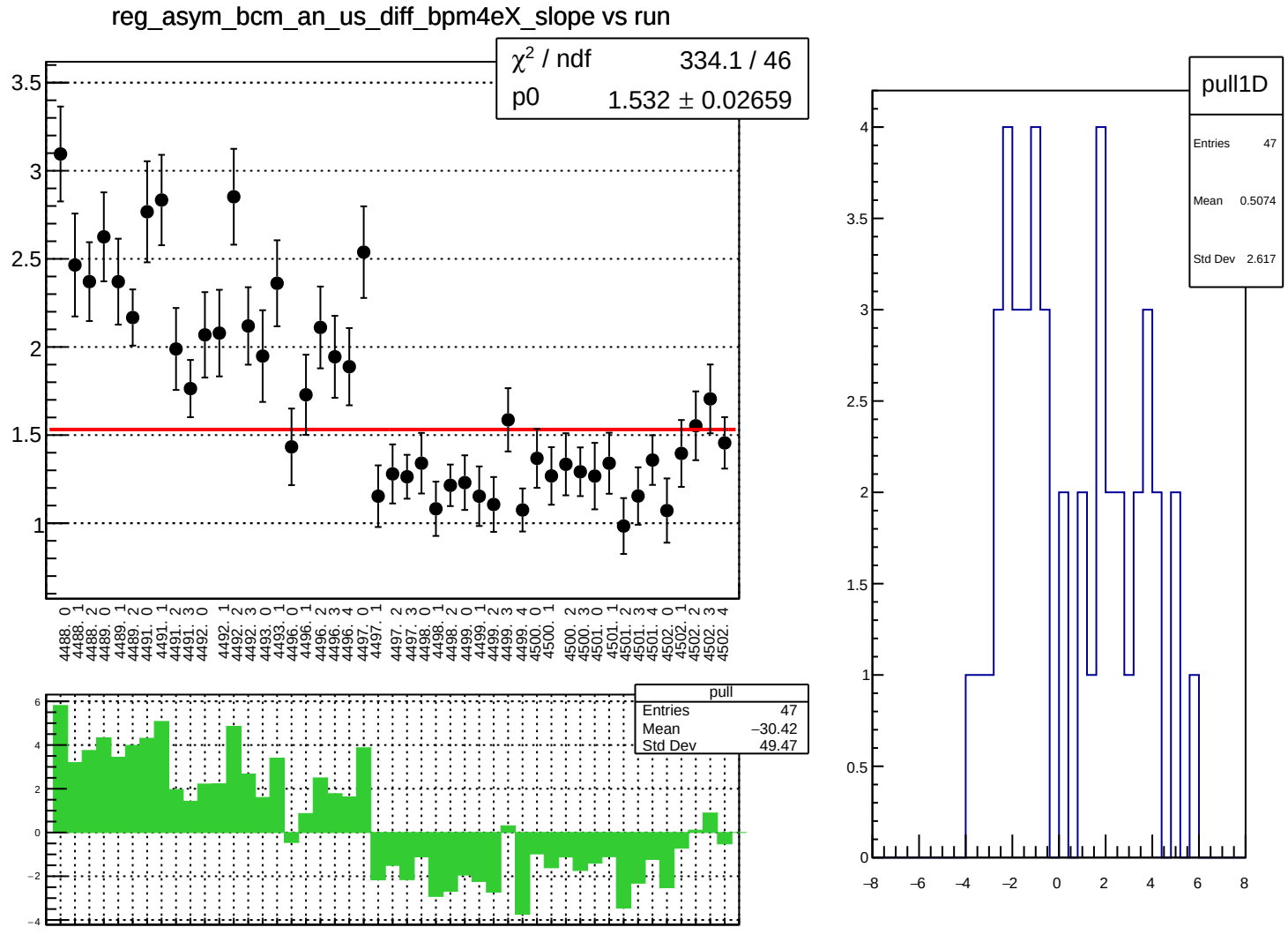

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 125.8 / 46
p0 2.941 ± 0.2049
pull
Entries 47
Mean −322.5
Std Dev 343.3
pull1D
Entries 47
Mean 0.03951
Std Dev 1.636

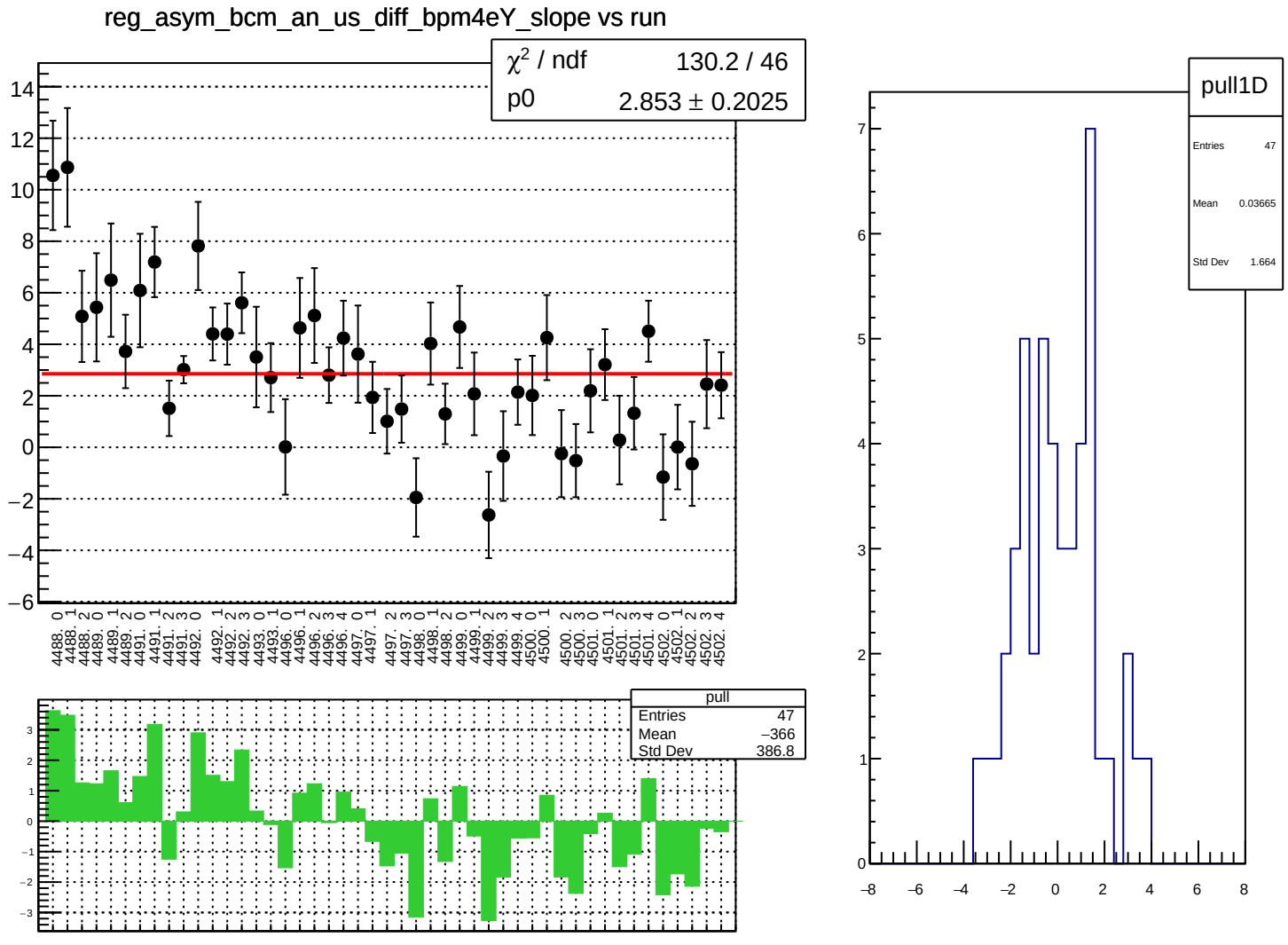

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 82.48 / 46
p0 0.9665 ± 0.04153
pull
Entries 47
Mean −36.98
Std Dev 55.92

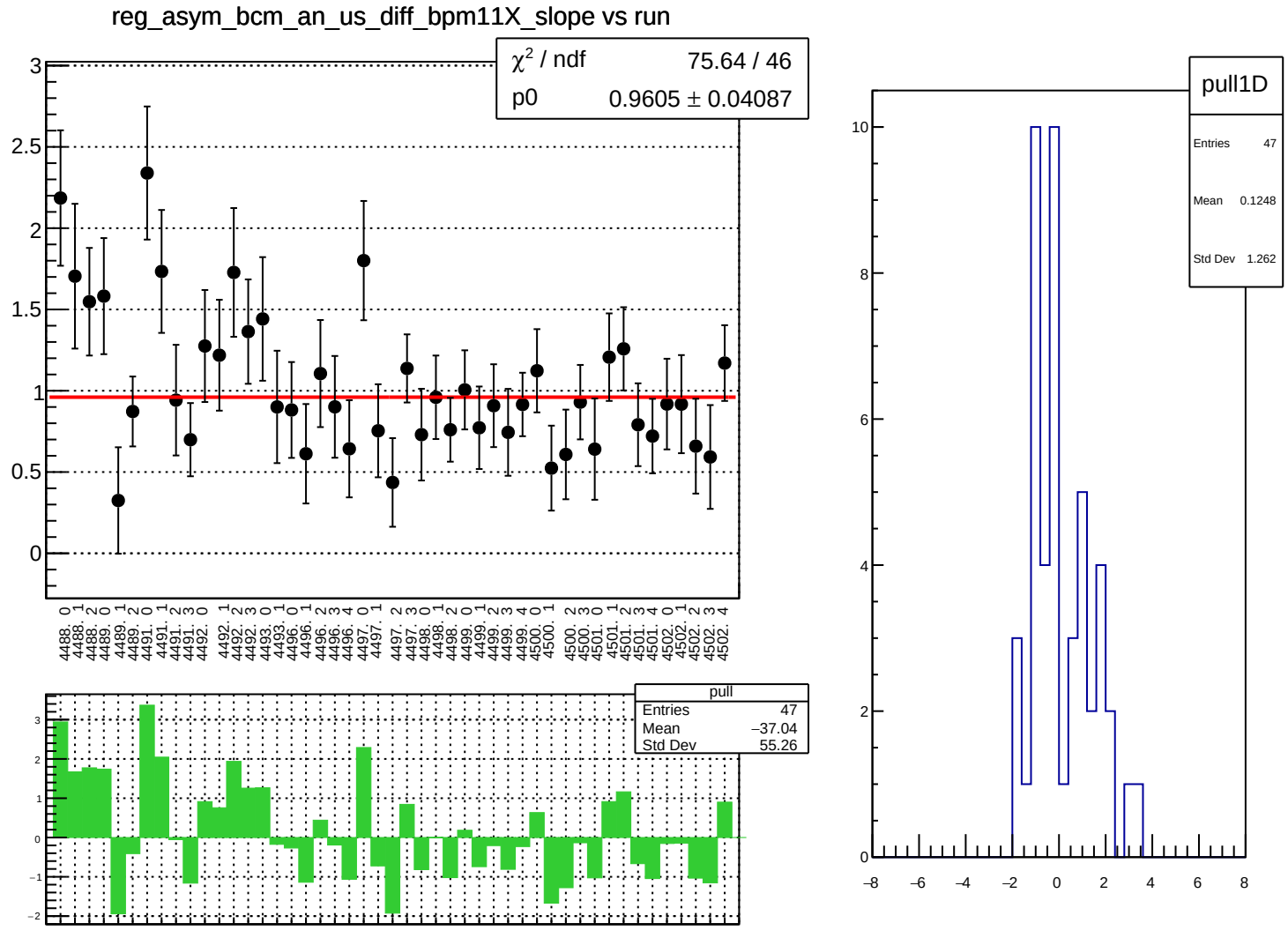

pull1D
Entries 47
Mean 0.1342
Std Dev 1.318

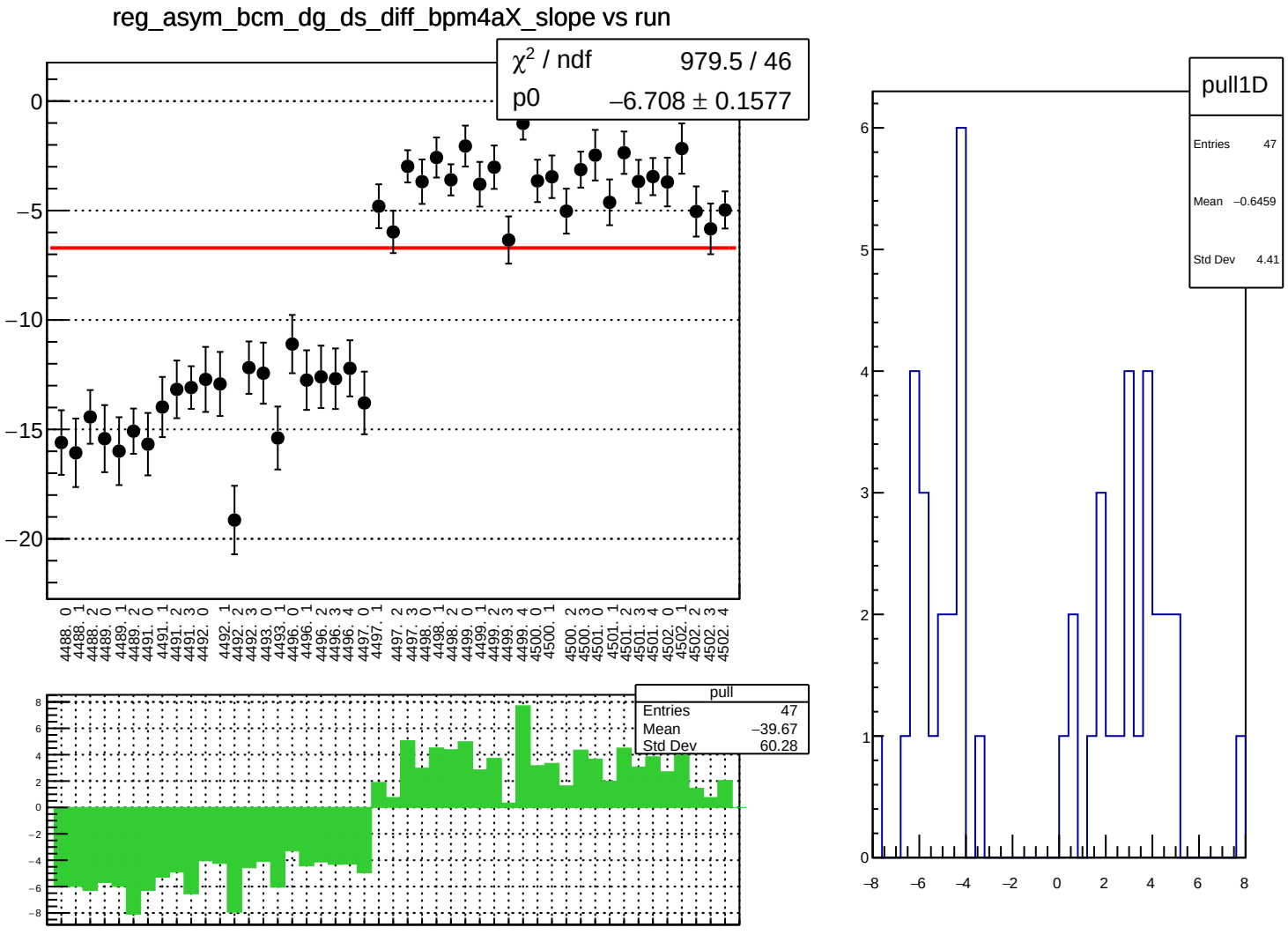

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 986.9 / 46
p0 −6.785 ± 0.1582
pull
Entries 47
Mean −40.77
Std Dev 61.37
pull1D
Entries 47
Mean −0.637
Std Dev 4.431

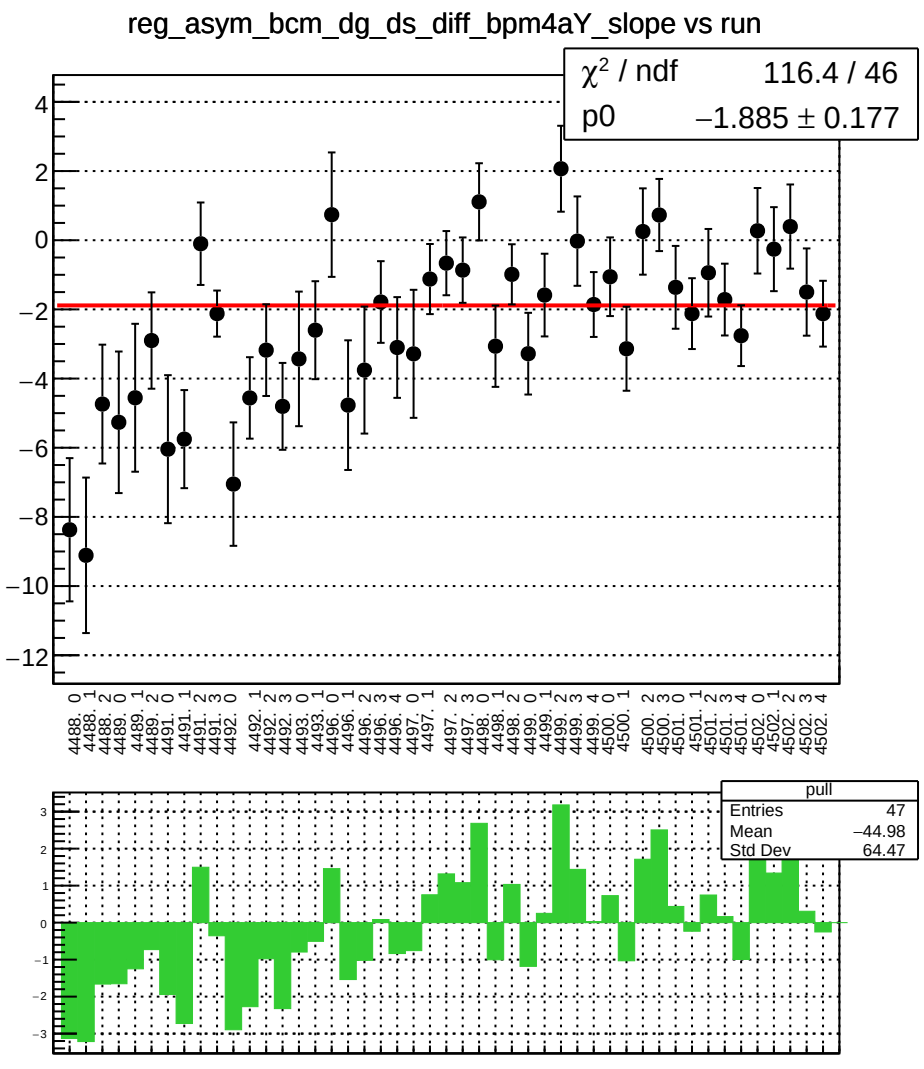

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 116.7 / 46
p0 −1.987 ± 0.1771
pull
Entries 47
Mean −54.57
Std Dev 74.4
pull1D
Entries 47
Mean −0.1691
Std Dev 1.567

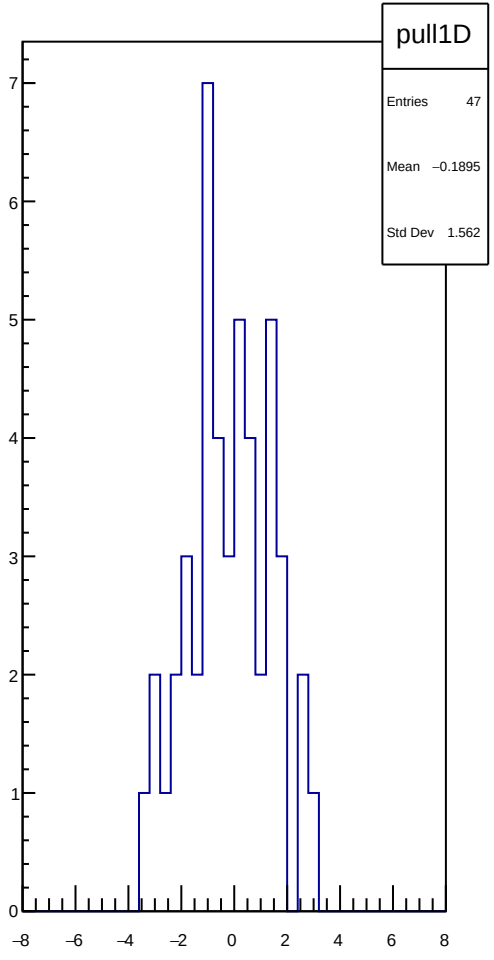

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 334.1 / 46
p0 1.532 ± 0.02659
pull
Entries 47
Mean −30.42
Std Dev 49.47
pull1D
Entries 47
Mean 0.5074
Std Dev 2.617

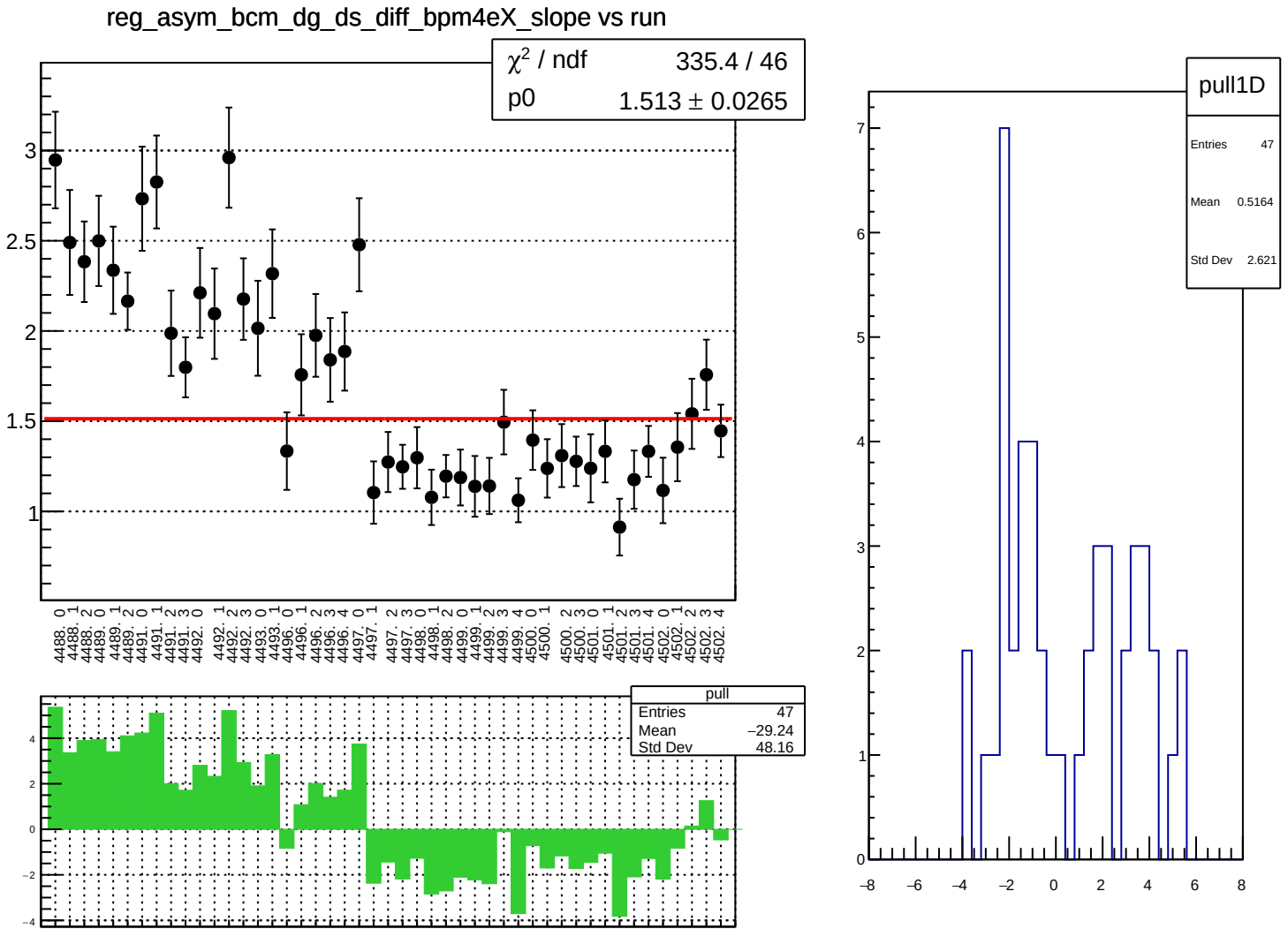

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 130.2 / 46
p0 2.853 ± 0.2025
pull
Entries 47
Mean −366
Std Dev 386.8
pull1D
Entries 47
Mean 0.03665
Std Dev 1.664

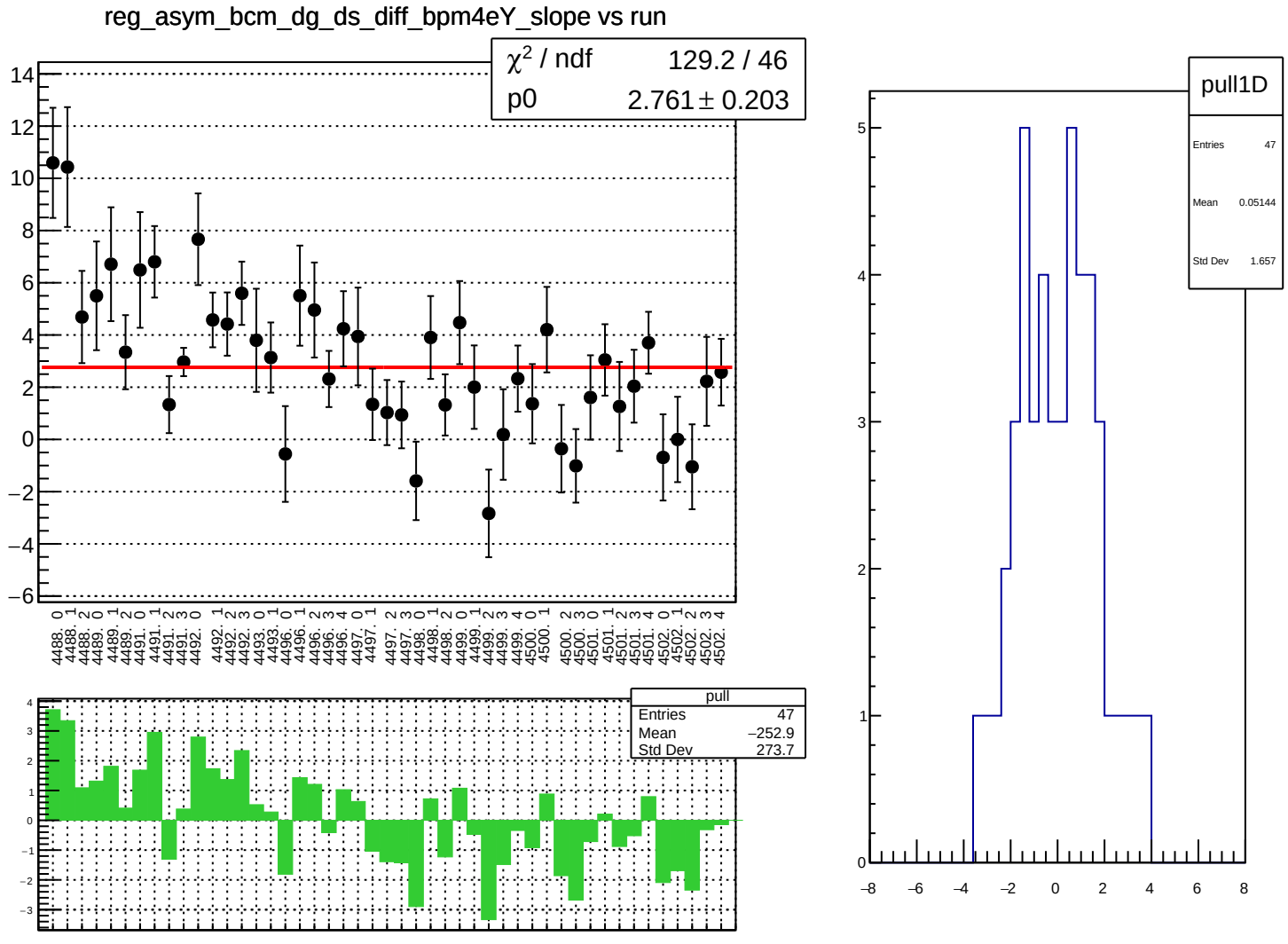

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 75.64 / 46
p0 0.9605 ± 0.04087
pull
Entries 47
Mean −37.04
Std Dev 55.26
pull1D
Entries 47
Mean 0.1248
Std Dev 1.262

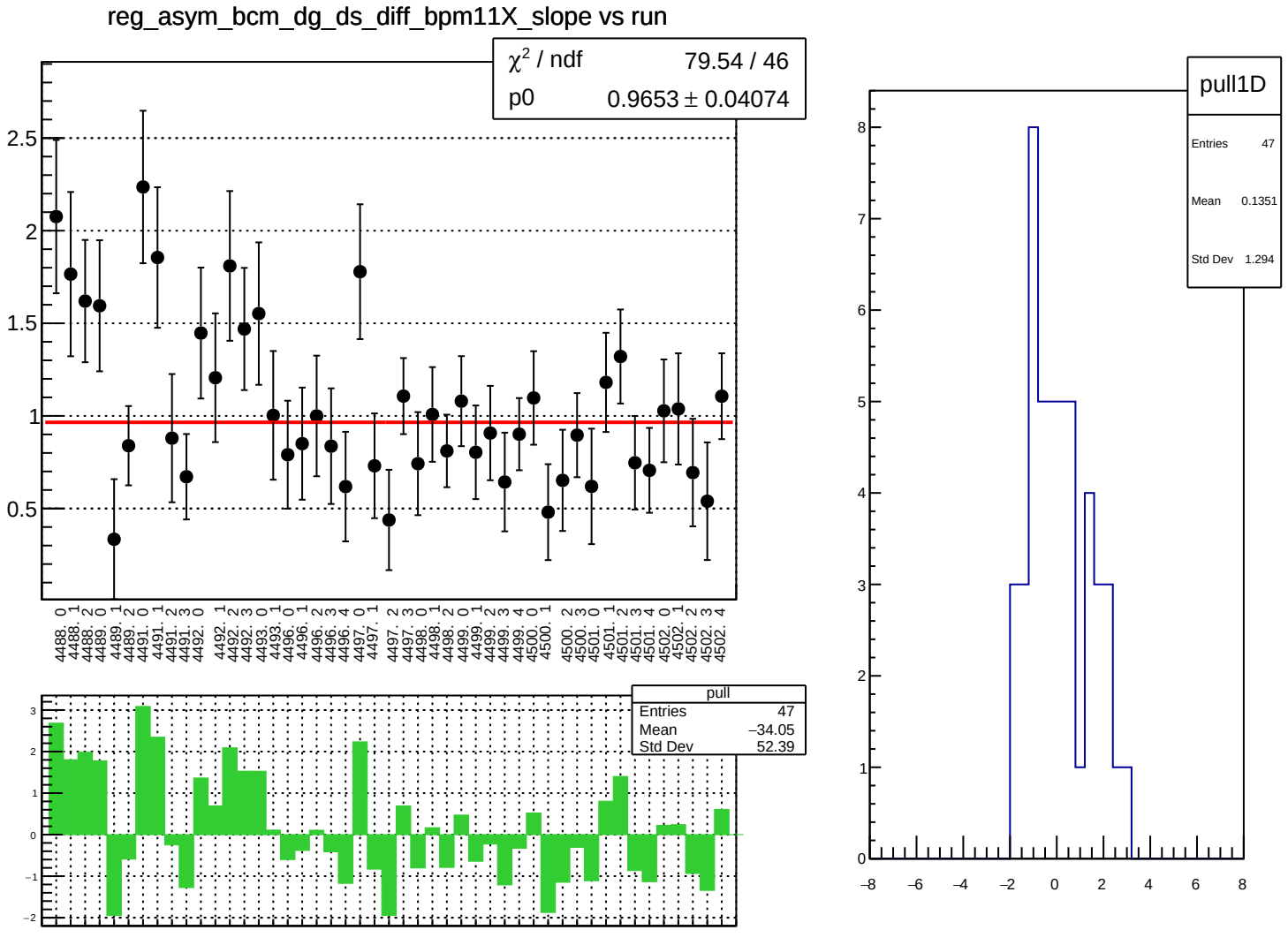

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 979.5 / 46
p0 −6.708 ± 0.1577
pull
Entries 47
Mean −39.67
Std Dev 60.28
pull1D
Entries 47
Mean −0.6459
Std Dev 4.41

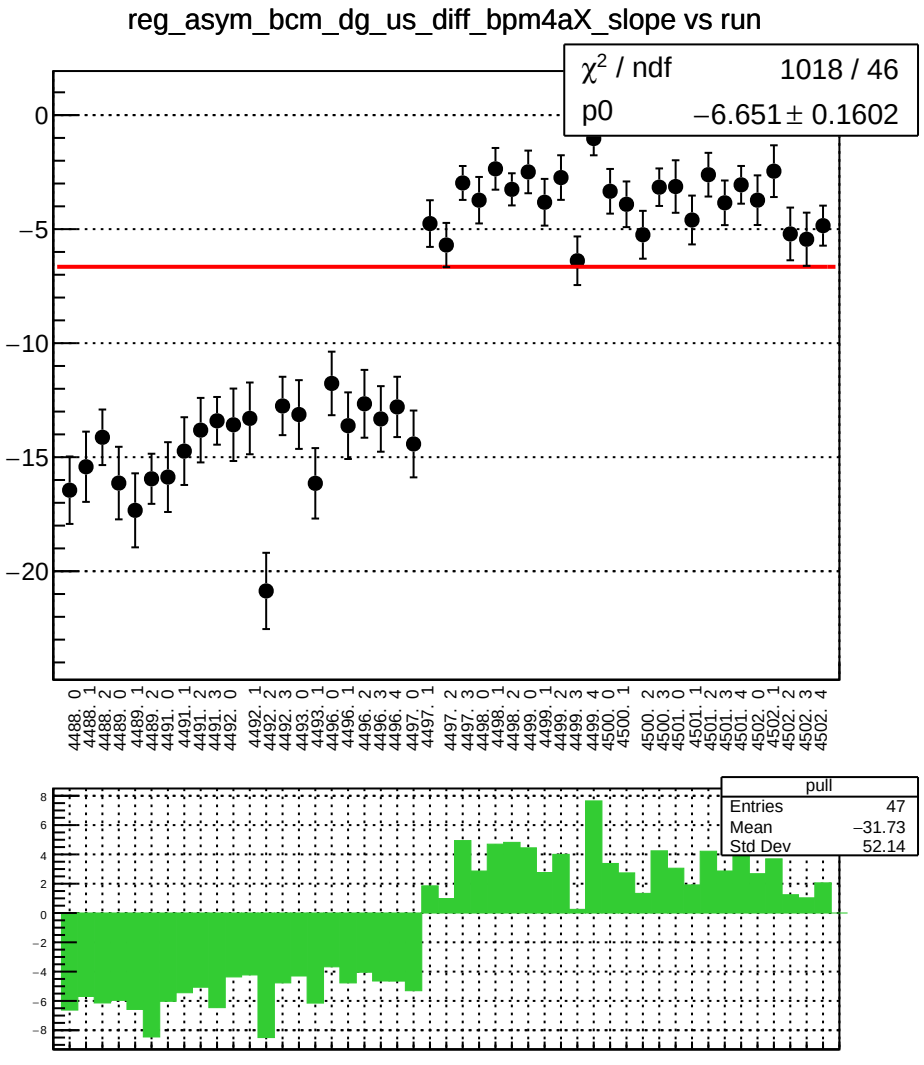

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 116.4 / 46
p0 −1.885 ± 0.177
pull
Entries 47
Mean −44.98
Std Dev 64.47

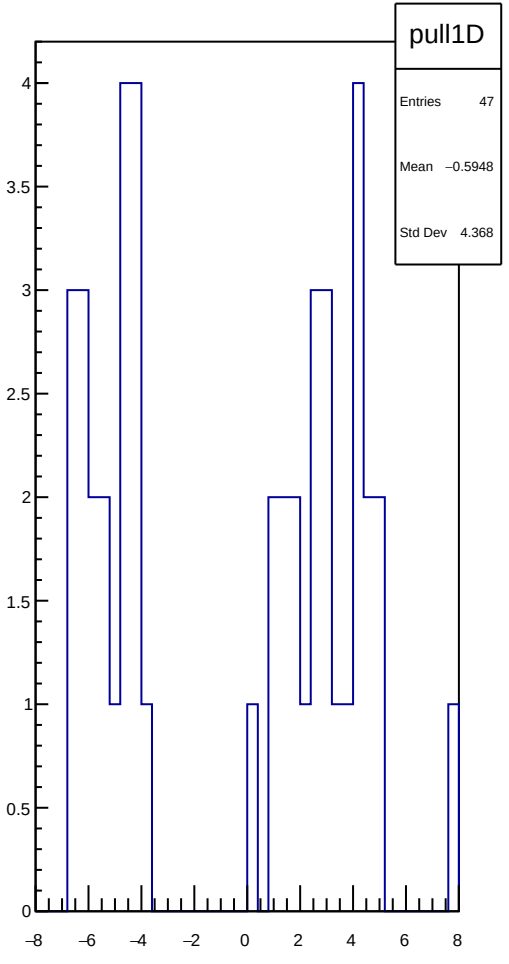

pull1D
Entries 47
Mean −0.1895
Std Dev 1.562

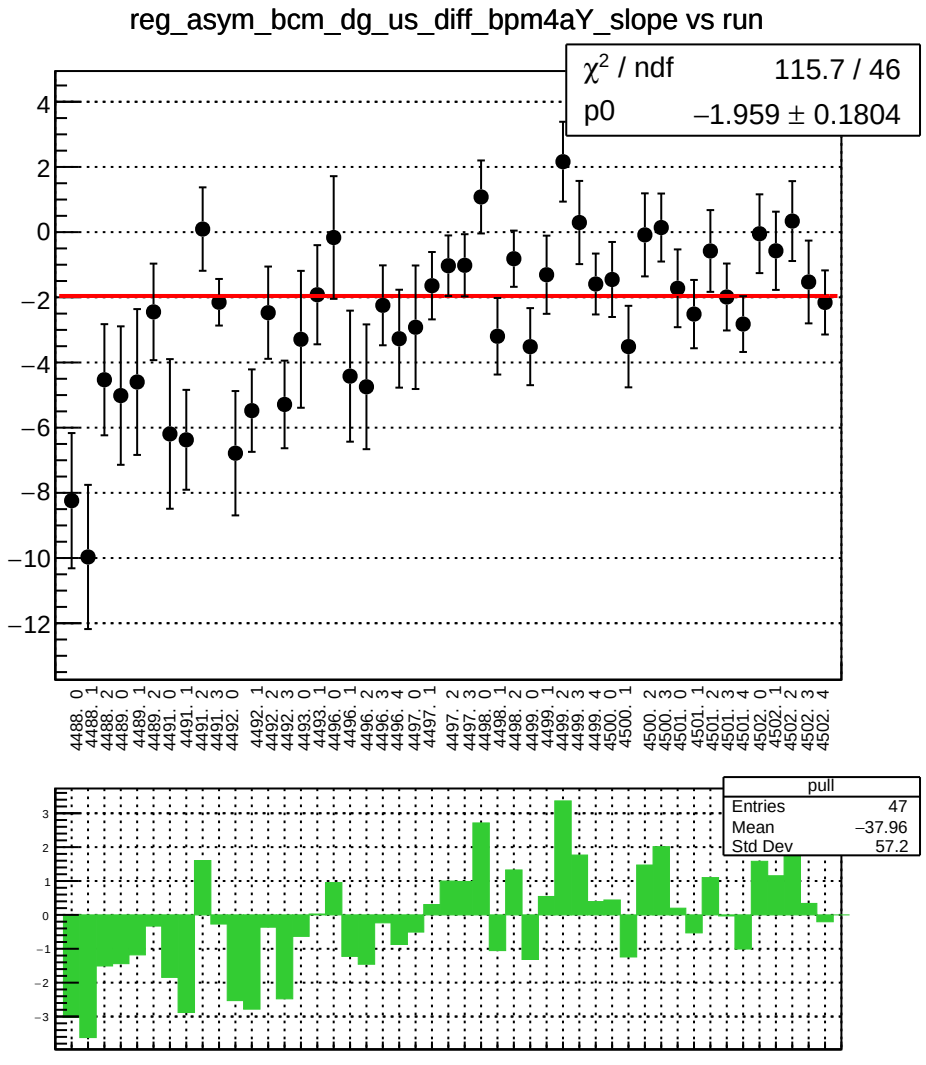

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 335.4 / 46
p0 1.513 ± 0.0265
pull
Entries 47
Mean −29.24
Std Dev 48.16
pull1D
Entries 47
Mean 0.5164
Std Dev 2.621

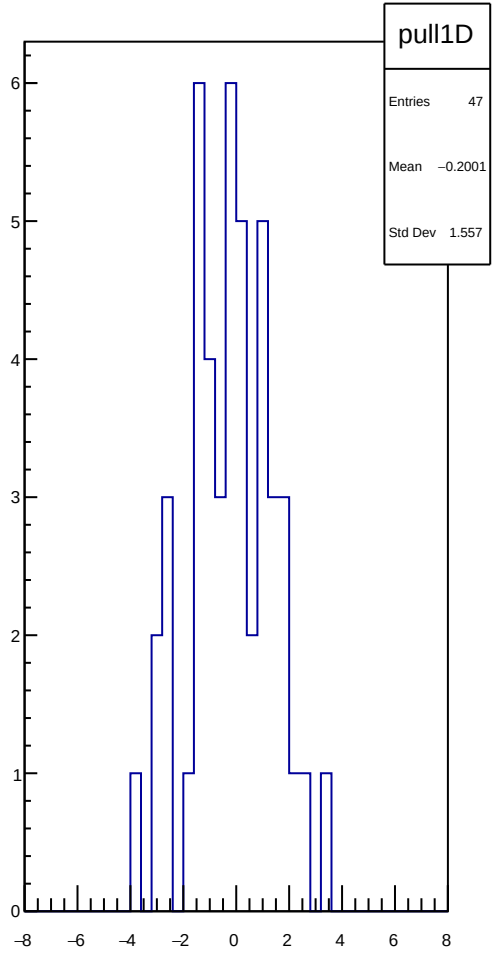

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 129.2 / 46
p0 2.761 ± 0.203
pull
Entries 47
Mean −252.9
Std Dev 273.7
pull1D
Entries 47
Mean 0.05144
Std Dev 1.657

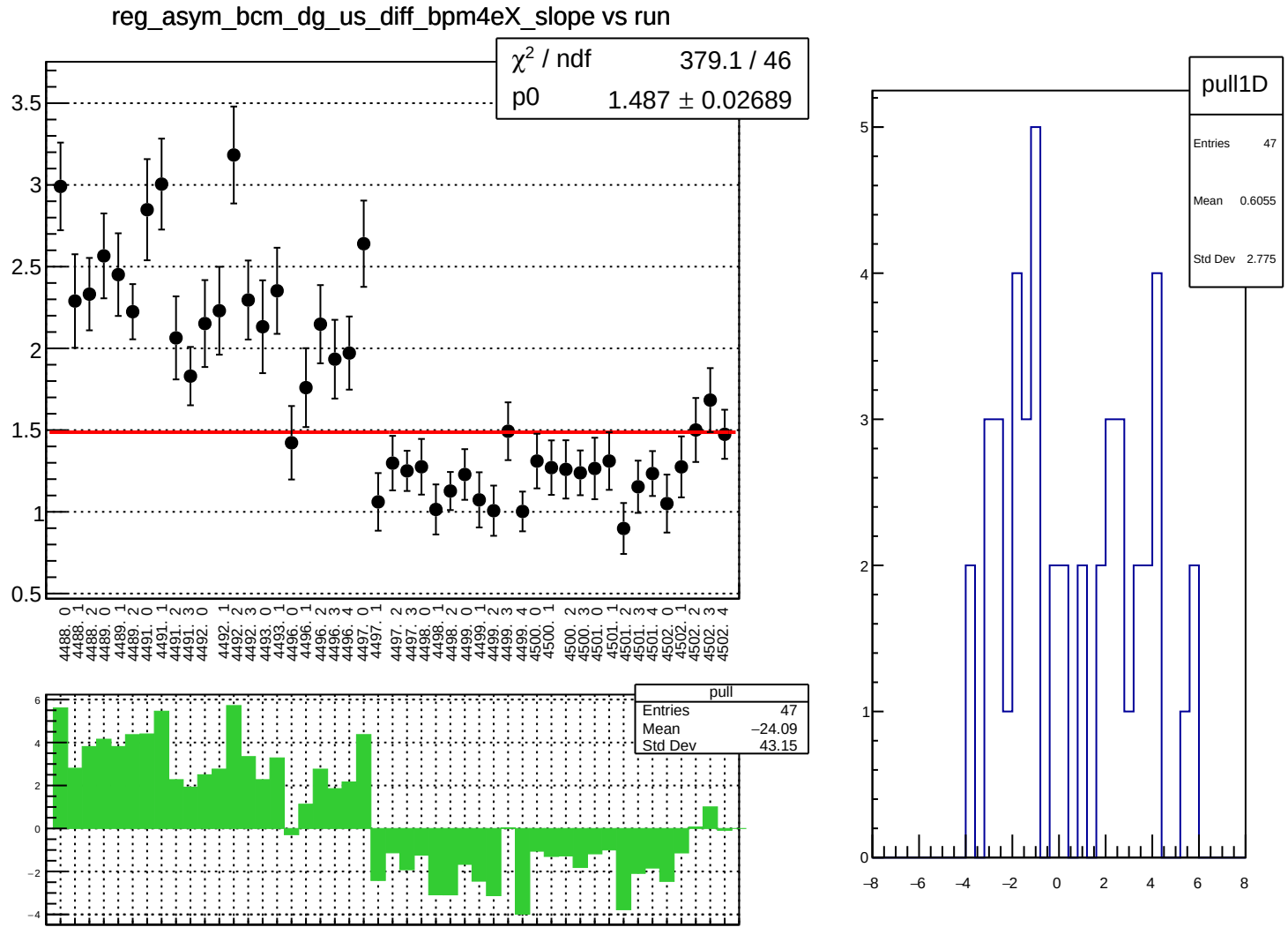

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 79.54 / 46
p0 0.9653 ± 0.04074
pull
Entries 47
Mean −34.05
Std Dev 52.39
pull1D
Entries 47
Mean 0.1351
Std Dev 1.294

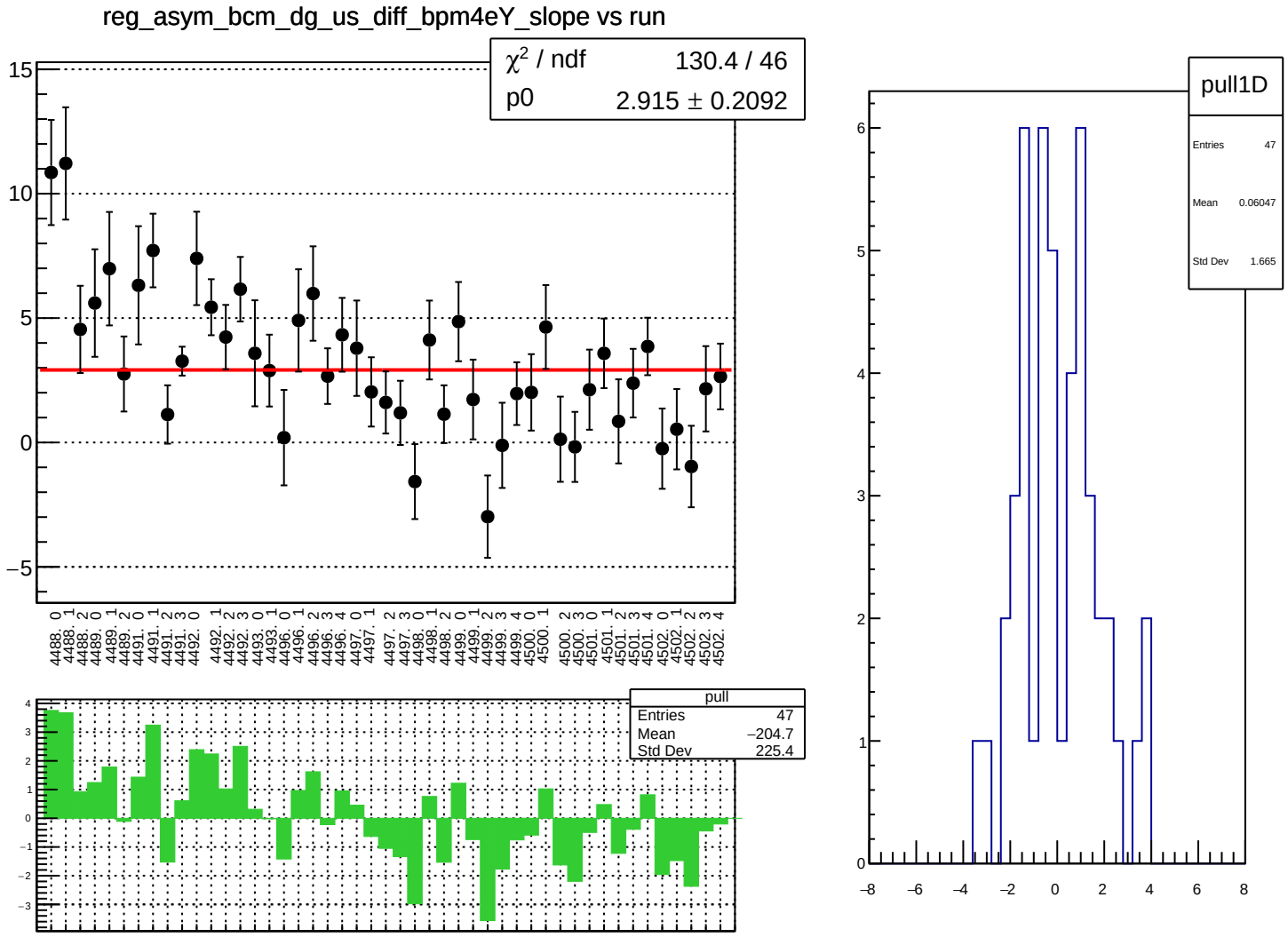

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 1018 / 46
p0 −6.651 ± 0.1602
pull
Entries 47
Mean −31.73
Std Dev 52.14

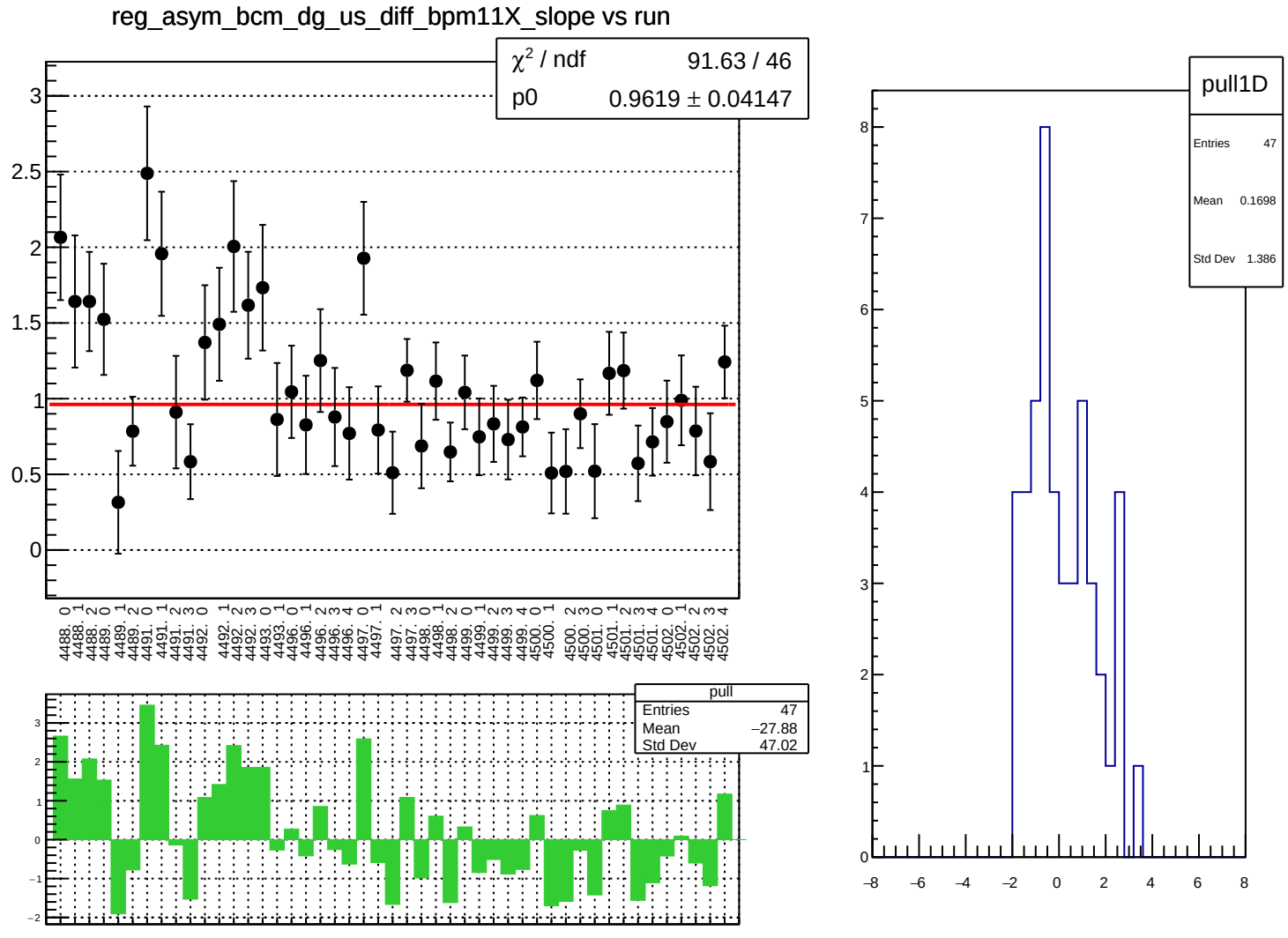

pull1D
Entries 47
Mean −0.5948
Std Dev 4.368

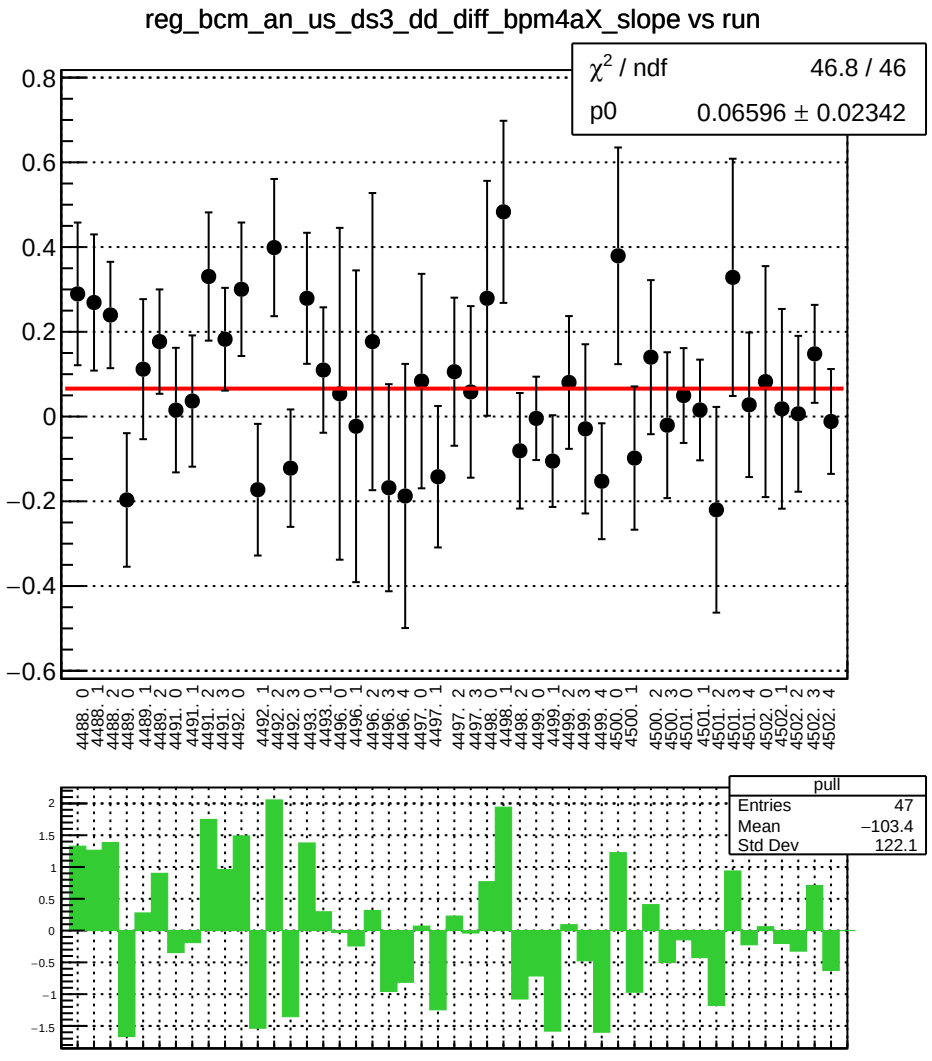

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 115.7 / 46
p0 −1.959 ± 0.1804
pull
Entries 47
Mean −37.96
Std Dev 57.2

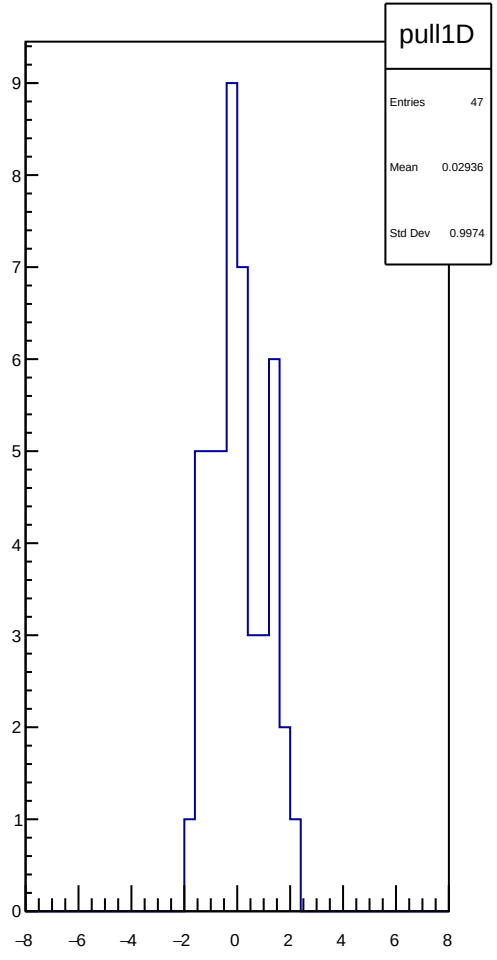

pull1D
Entries 47
Mean −0.2001
Std Dev 1.557

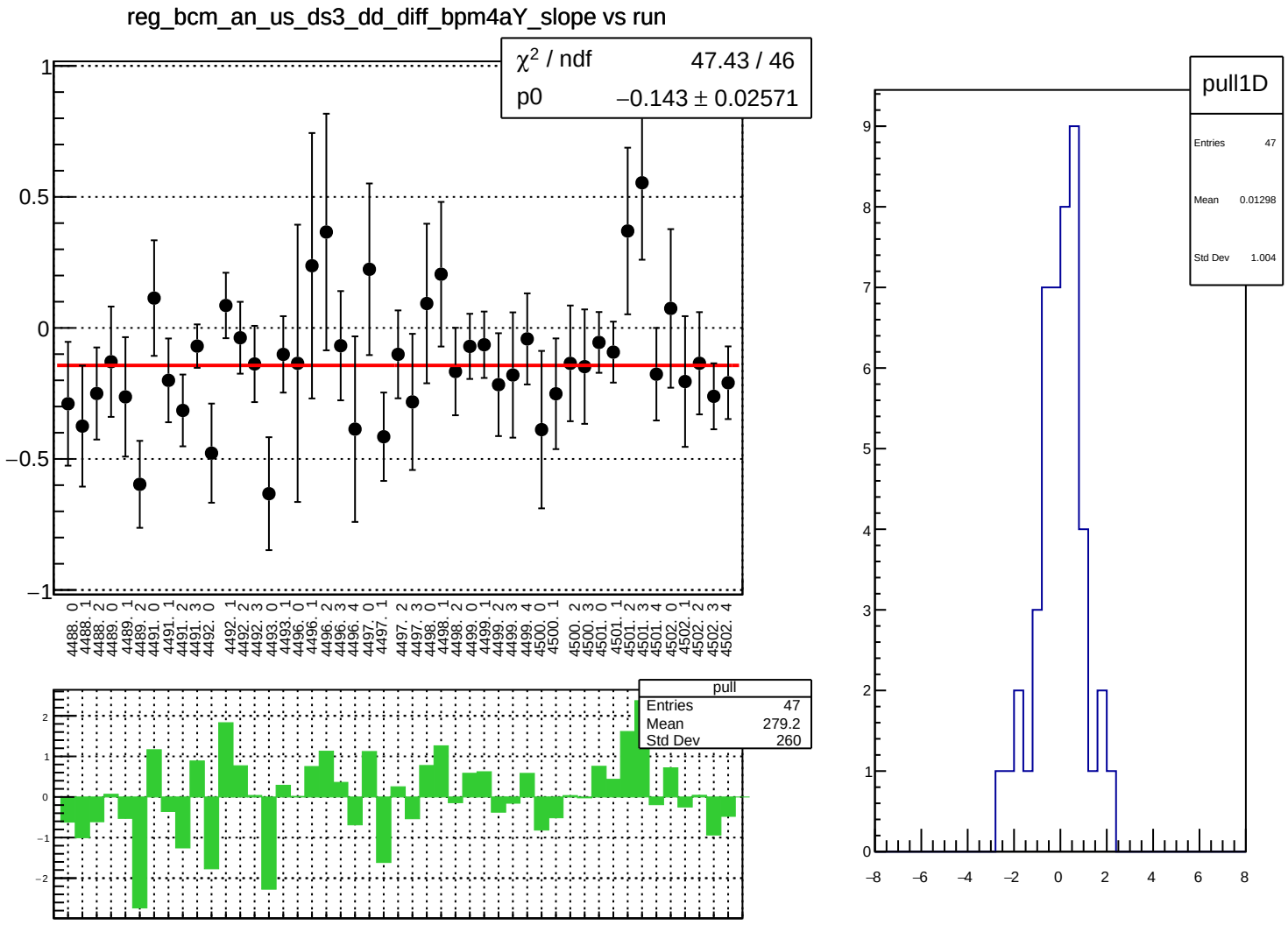

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 379.1 / 46
p0 1.487 ± 0.02689
pull
Entries 47
Mean −24.09
Std Dev 43.15
pull1D
Entries 47
Mean 0.6055
Std Dev 2.775

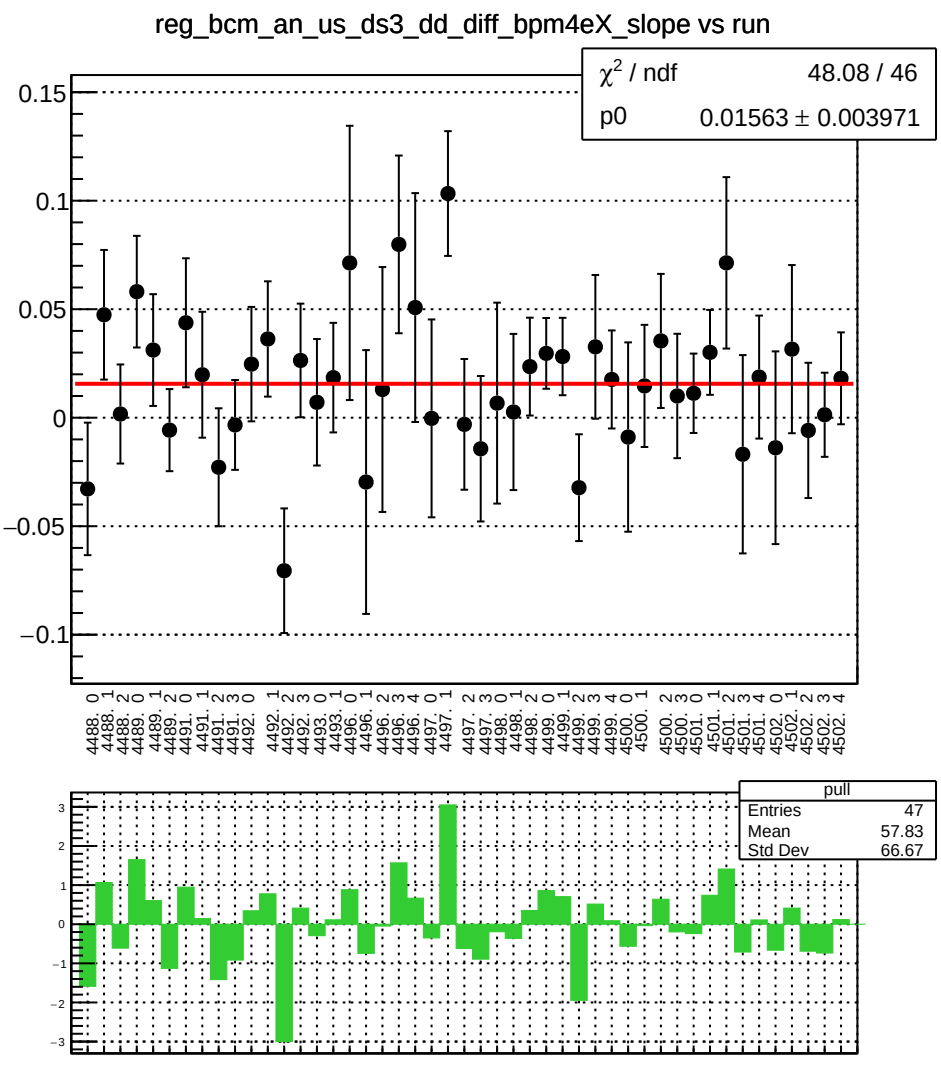

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 130.4 / 46
p0 2.915 ± 0.2092
pull
Entries 47
Mean −204.7
Std Dev 225.4
pull1D
Entries 47
Mean 0.06047
Std Dev 1.665

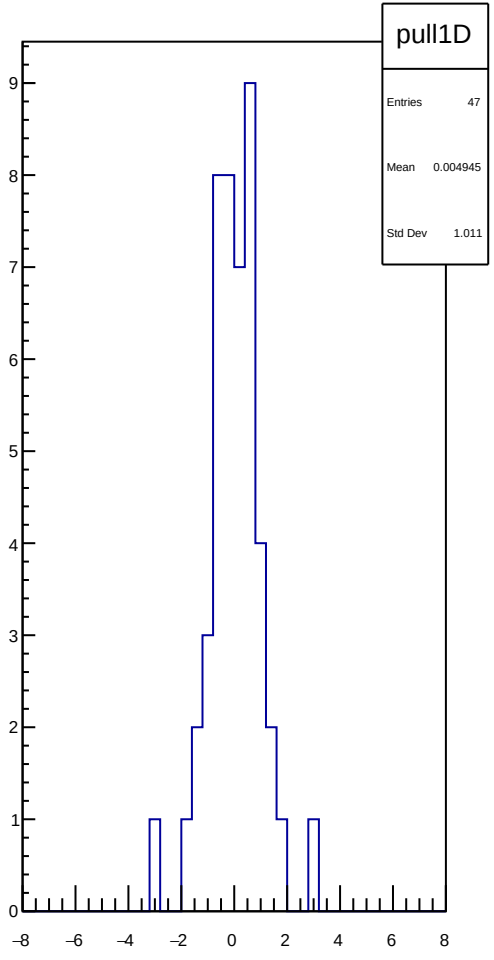

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 91.63 / 46
p0 0.9619 ± 0.04147
pull
Entries 47
Mean −27.88
Std Dev 47.02
pull1D
Entries 47
Mean 0.1698
Std Dev 1.386

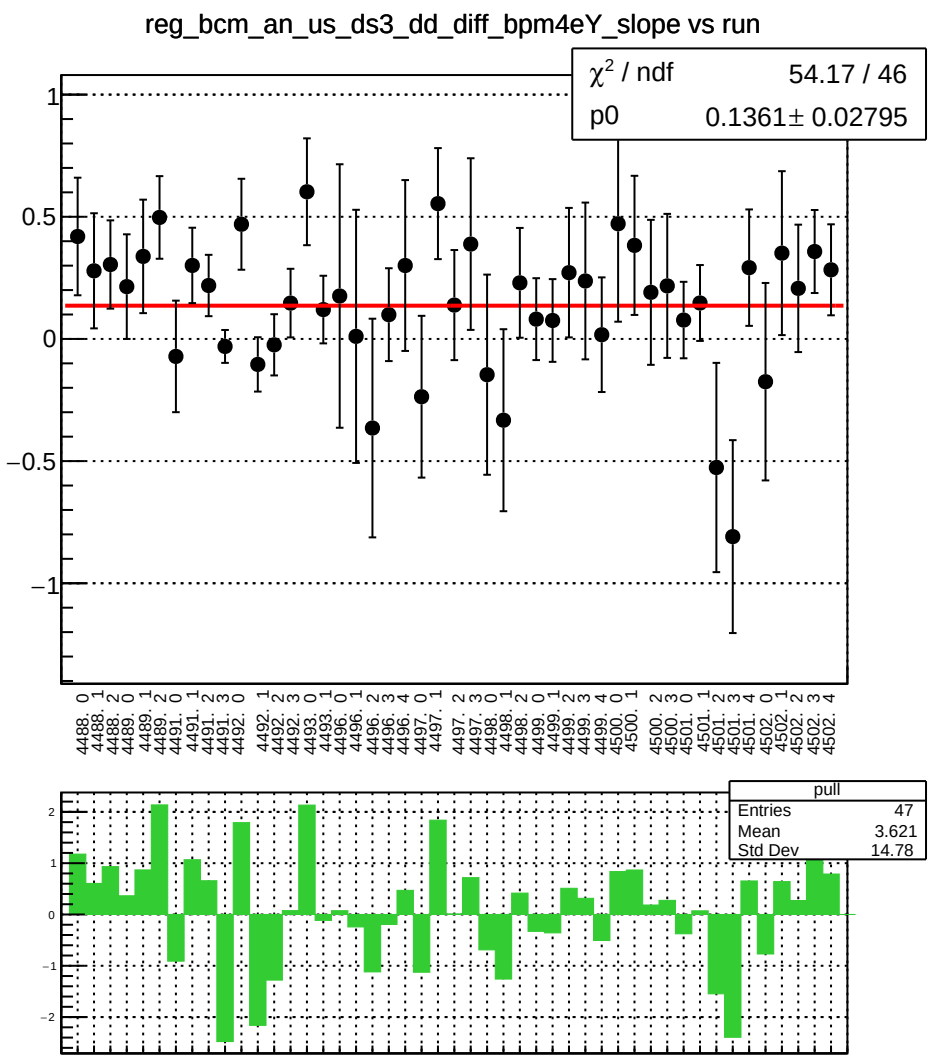

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.8 / 46
p0 0.06596 ± 0.02342
pull
Entries 47
Mean −103.4
Std Dev 122.1

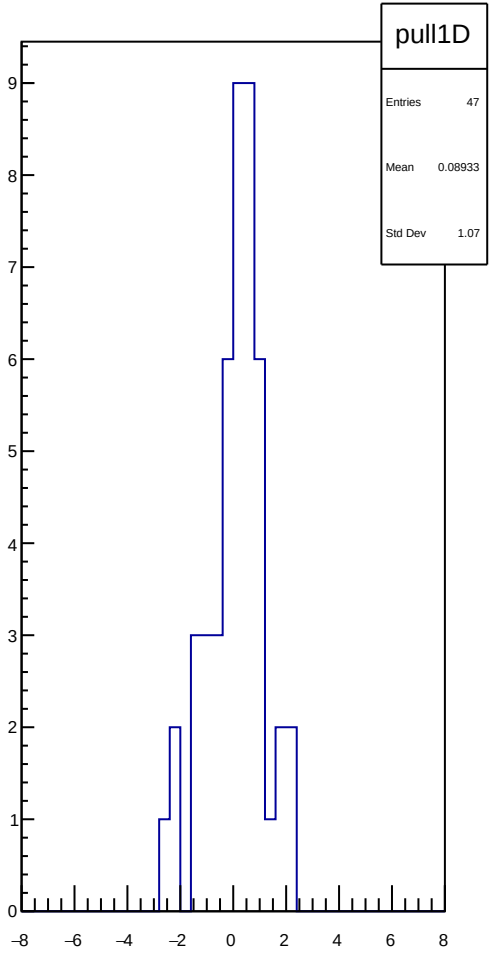

pull1D
Entries 47
Mean 0.02936
Std Dev 0.9974

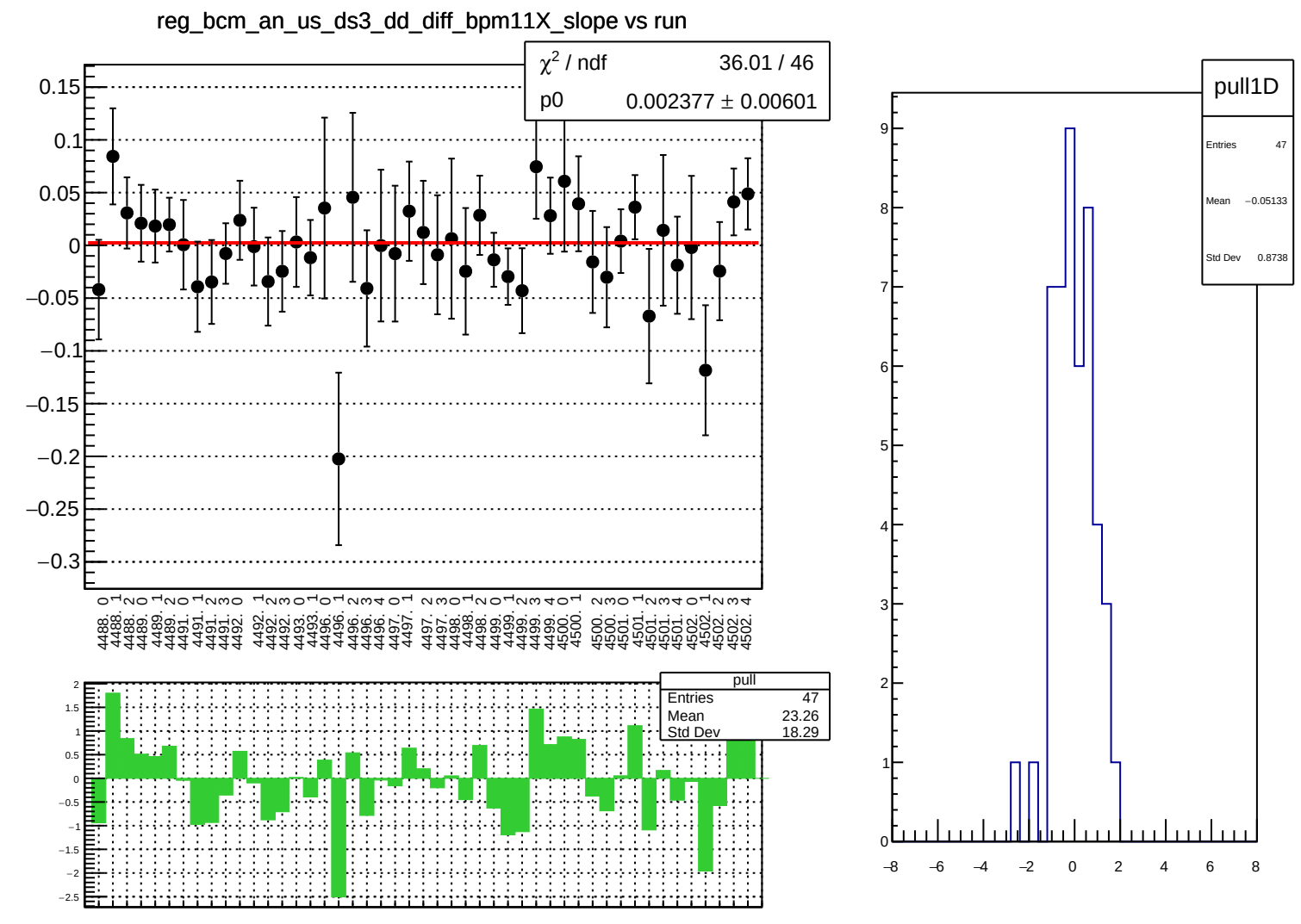

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.43 / 46
p0 −0.143 ± 0.02571
pull
Entries 47
Mean 279.2
Std Dev 260
pull1D
Entries 47
Mean 0.01298
Std Dev 1.004

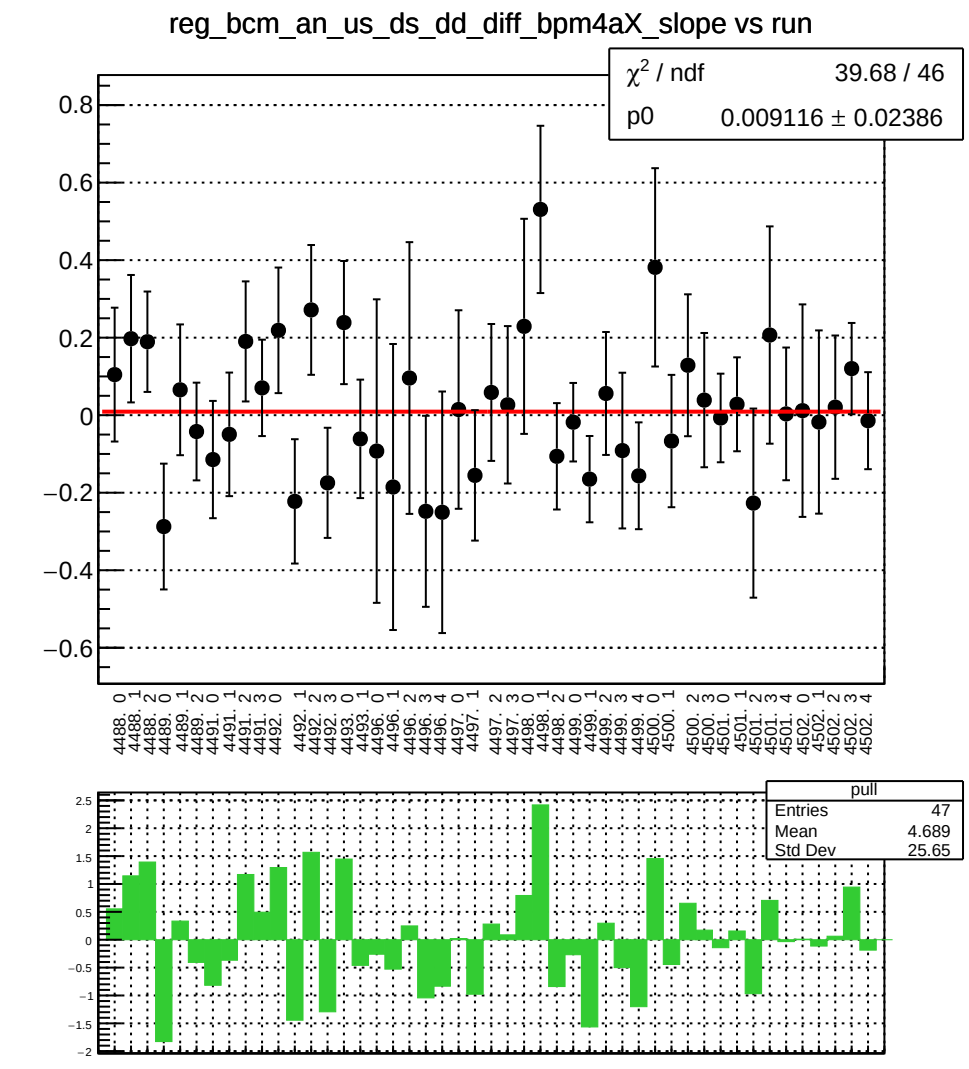

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.08 / 46
p0 0.01563 ± 0.003971
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 47
Mean 57.83
Std Dev 66.67
3
2
1
0
−1
−2
−3

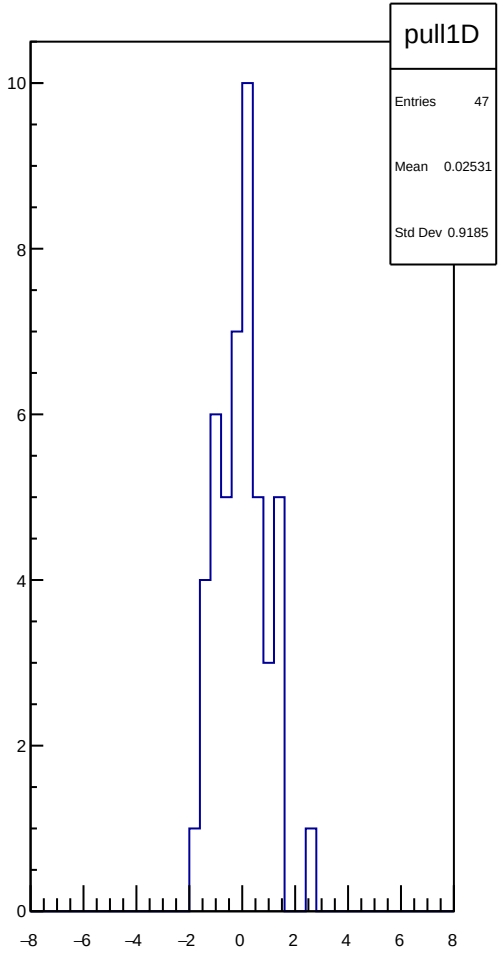

pull1D
Entries 47
Mean 0.004945
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

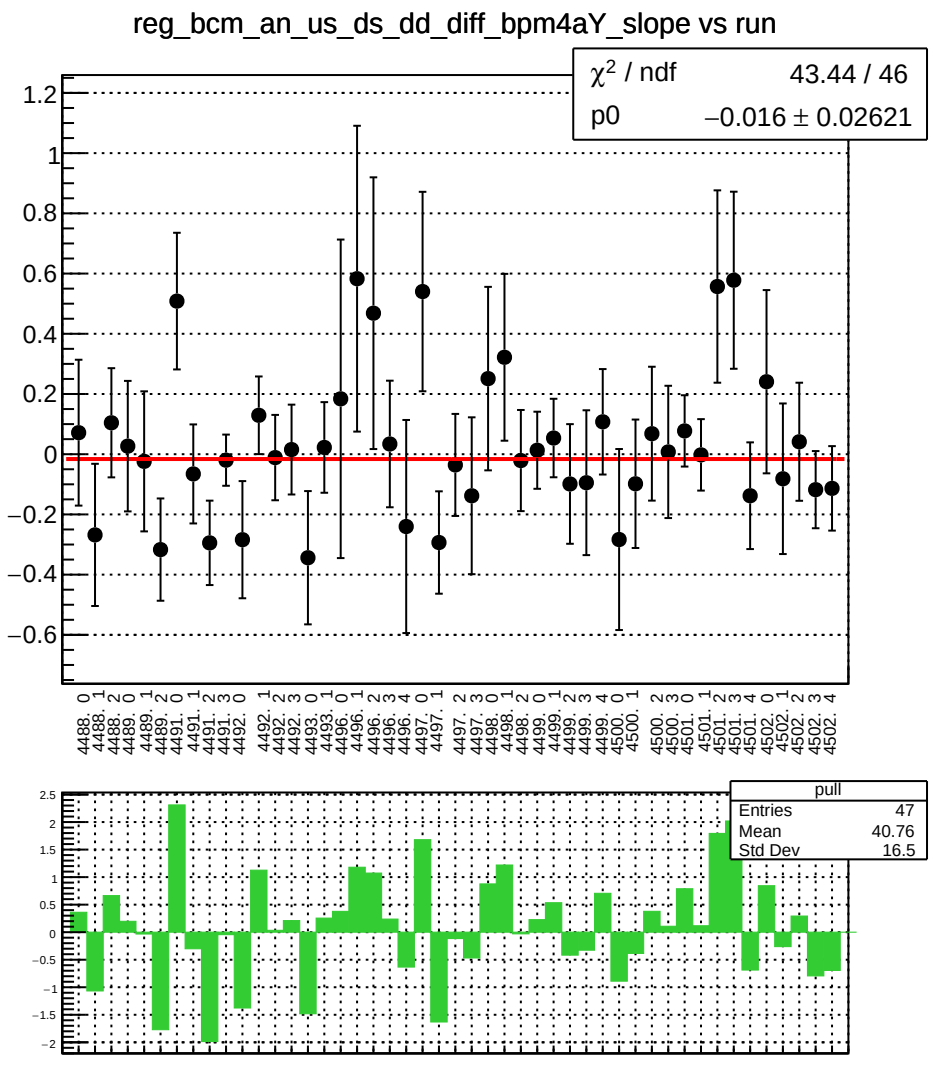

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.17 / 46
p0 0.1361± 0.02795
pull
Entries 47
Mean 3.621
Std Dev 14.78

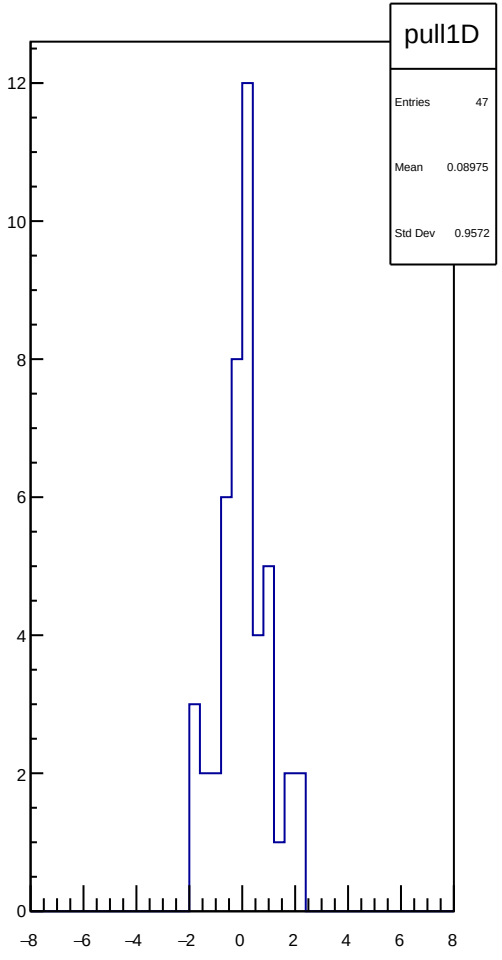

pull1D
Entries 47
Mean 0.08933
Std Dev 1.07

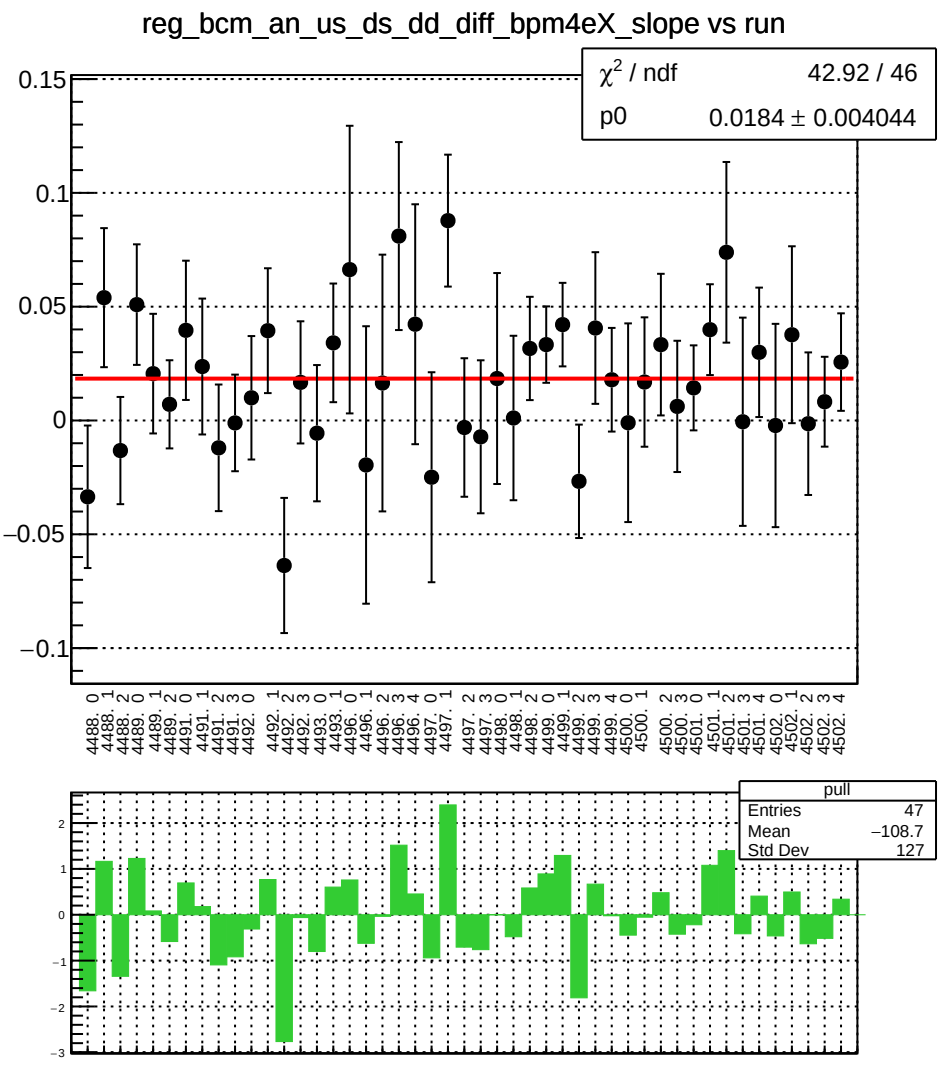

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 36.01 / 46
p0 0.002377 ± 0.00601
pull
Entries 47
Mean 23.26
Std Dev 18.29
pull1D
Entries 47
Mean −0.05133
Std Dev 0.8738

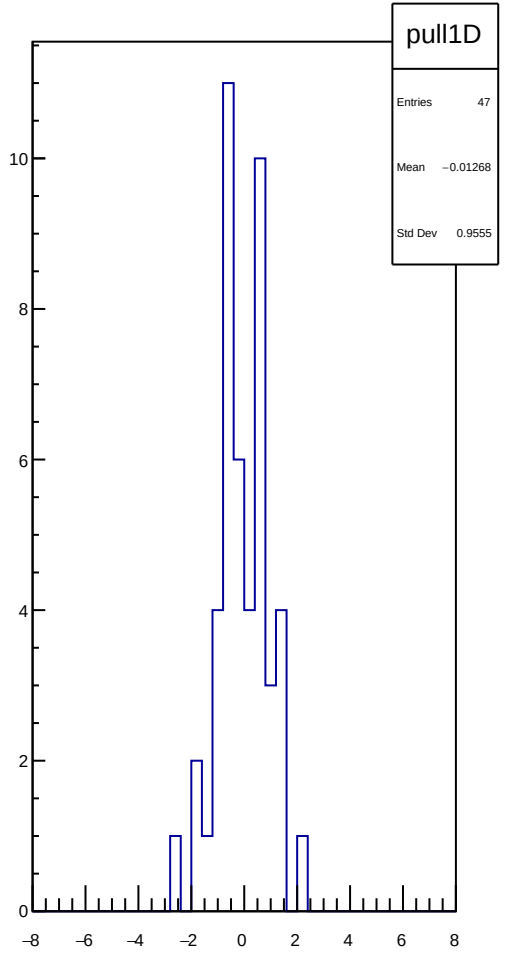

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.68 / 46
p0 0.009116 ± 0.02386
pull
Entries 47
Mean 4.689
Std Dev 25.65

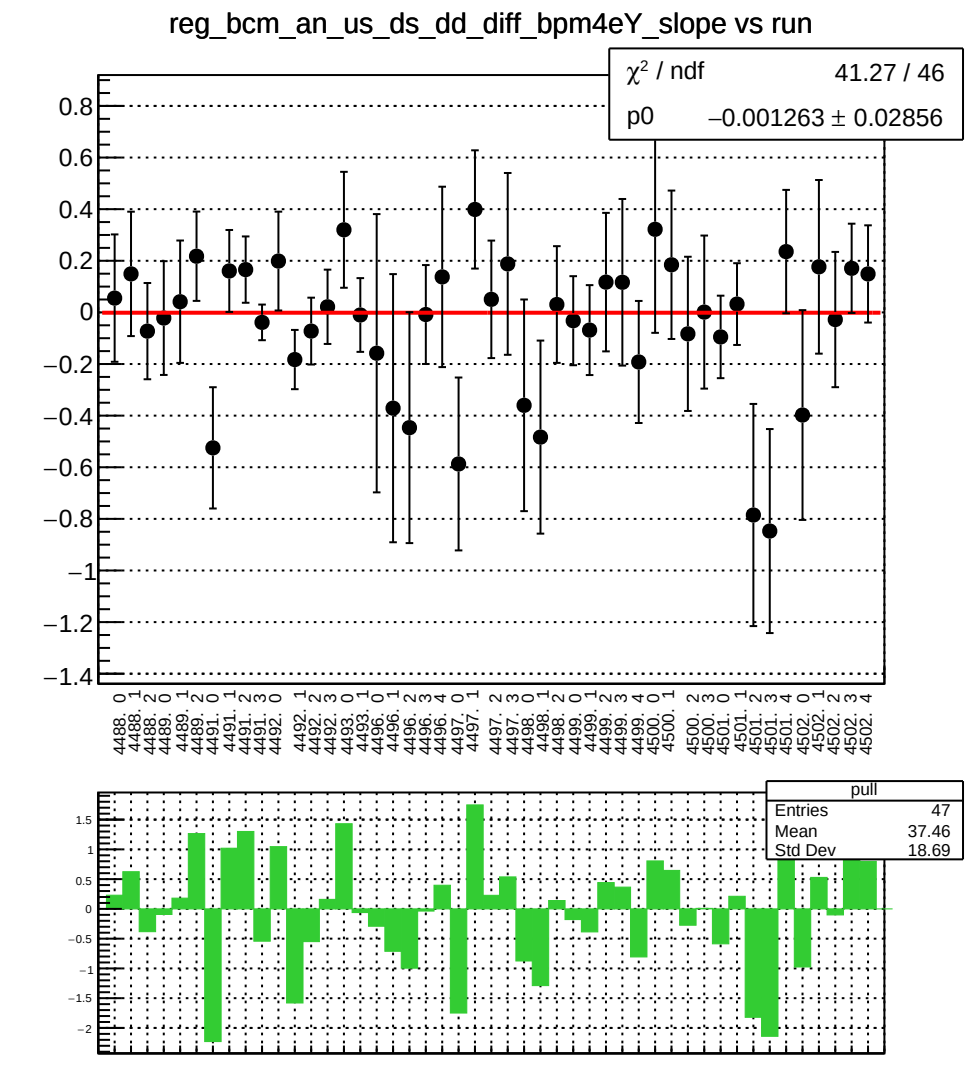

pull1D
Entries 47
Mean 0.02531
Std Dev 0.9185

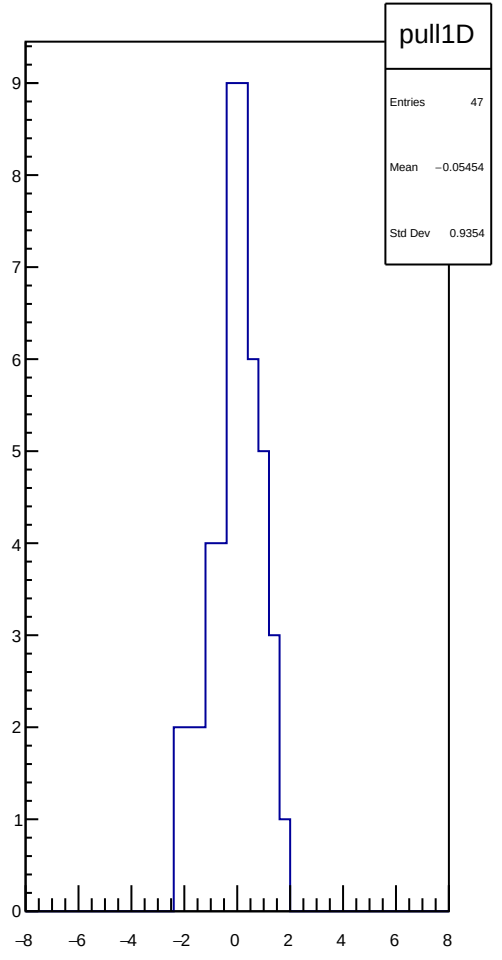

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.44 / 46
p0 −0.016 ± 0.02621
pull
Entries 47
Mean 40.76
Std Dev 16.5

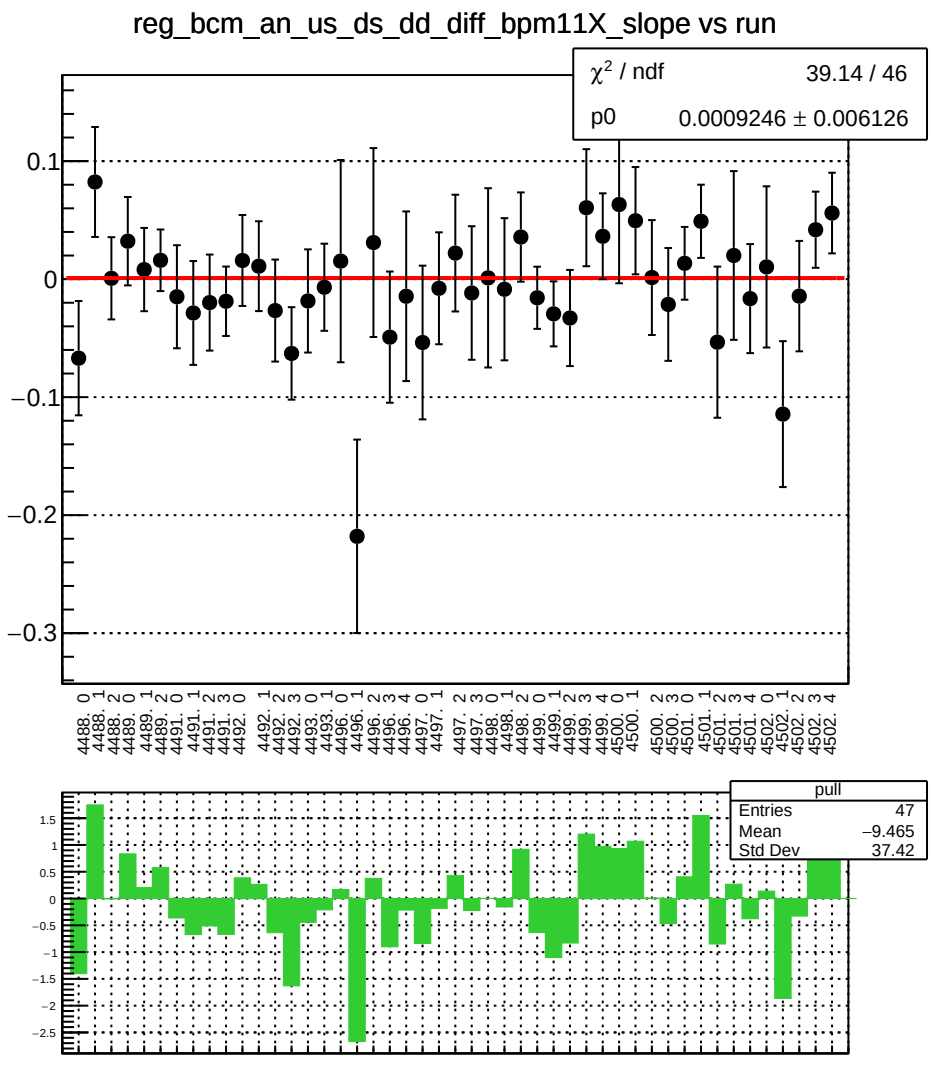

pull1D
Entries 47
Mean 0.08975
Std Dev 0.9572

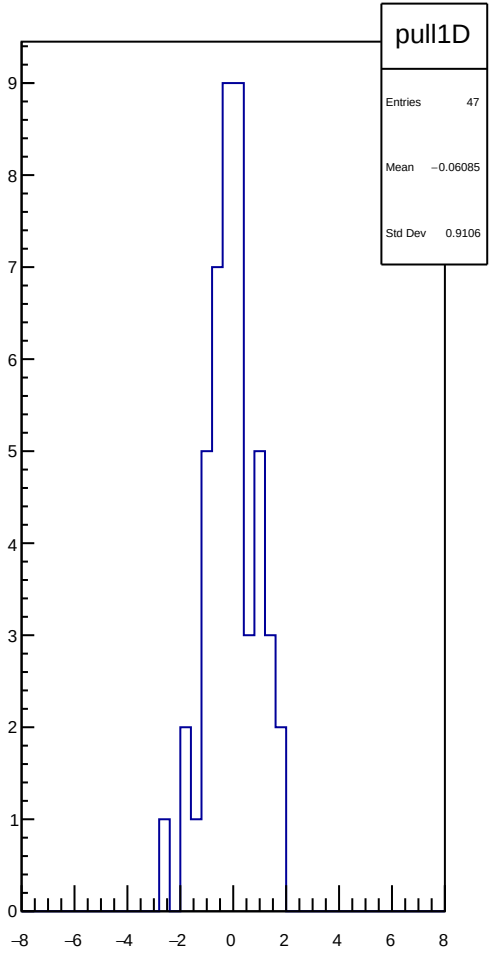

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.92 / 46
p0 0.0184 ± 0.004044
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 47
Mean −108.7
Std Dev 127
2
1
0
−1
−2
−3

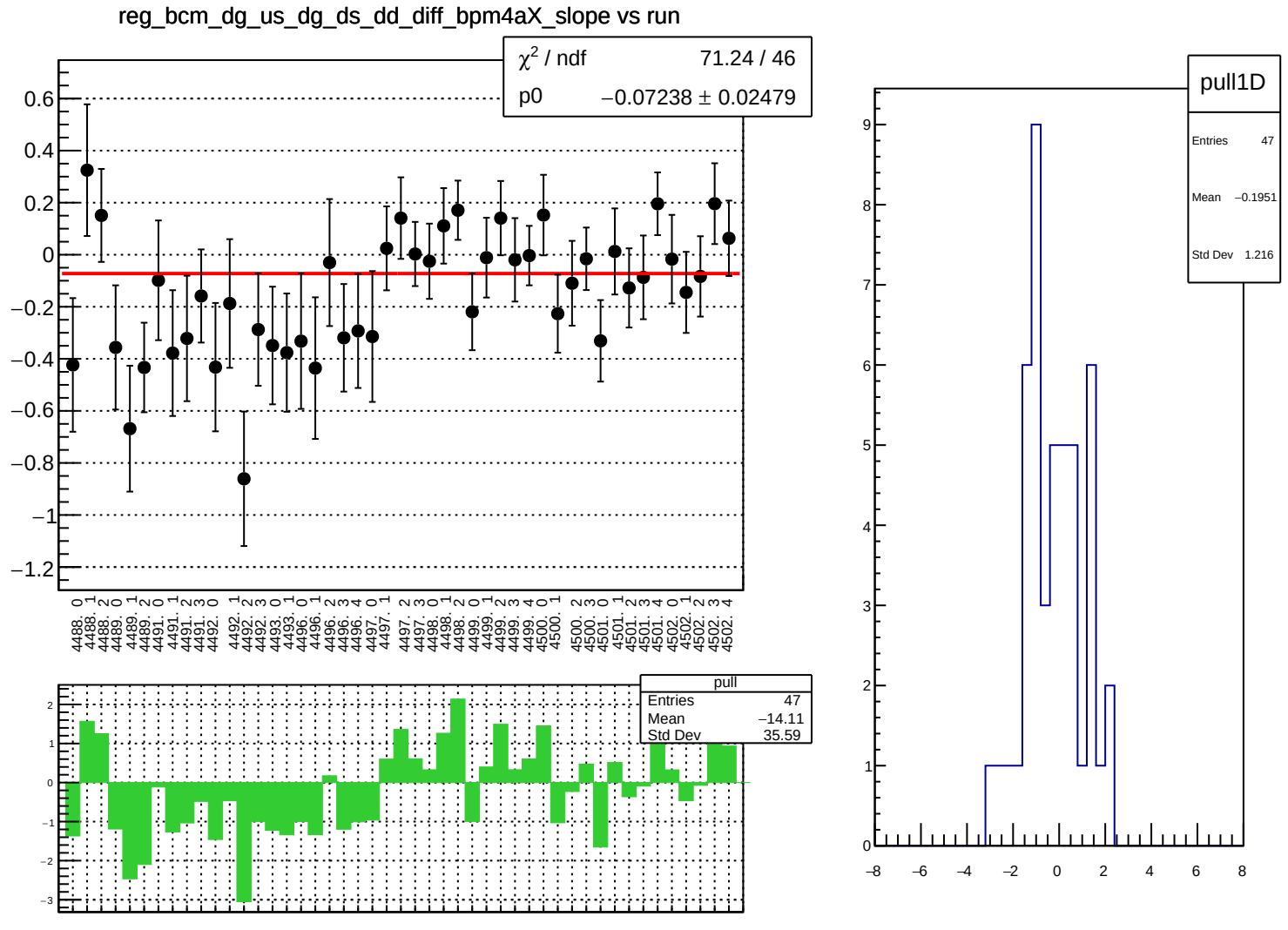

pull1D
Entries 47
Mean −0.01268
Std Dev 0.9555
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

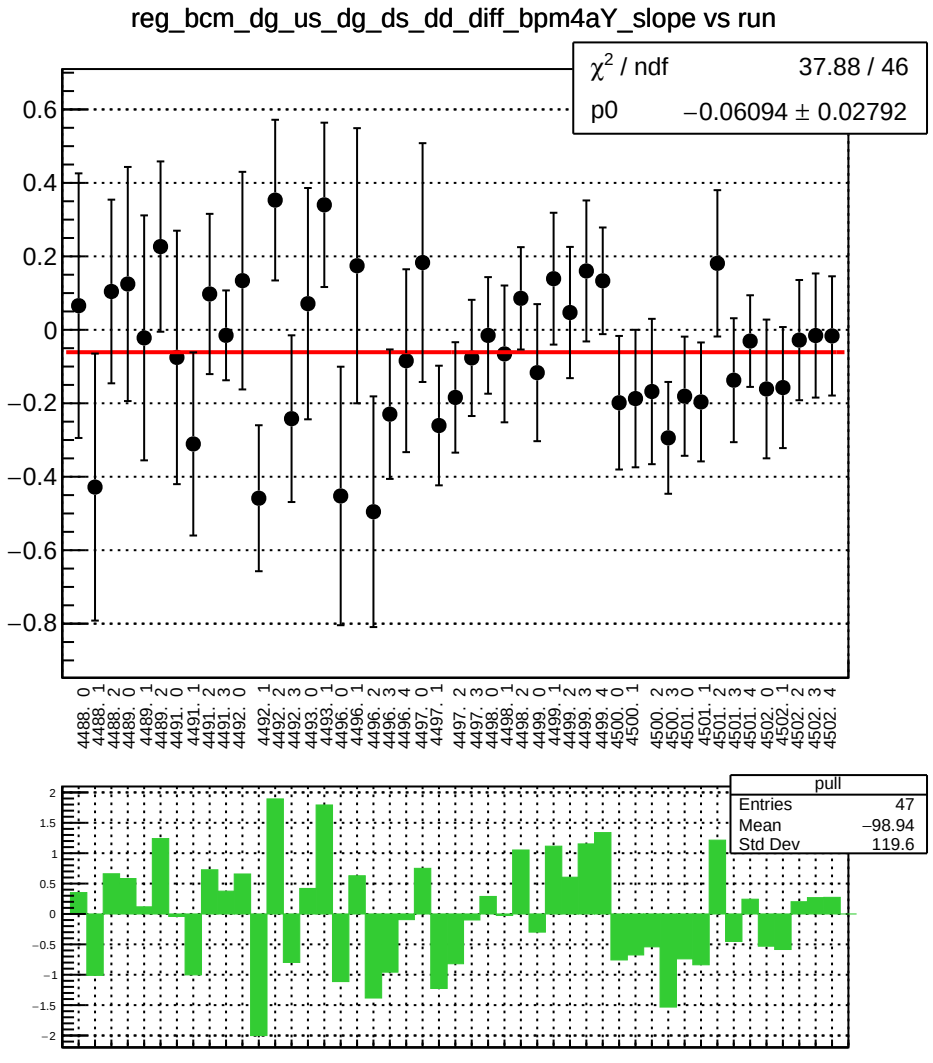

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.27 / 46
p0 −0.001263 ± 0.02856
pull
Entries 47
Mean 37.46
Std Dev 18.69

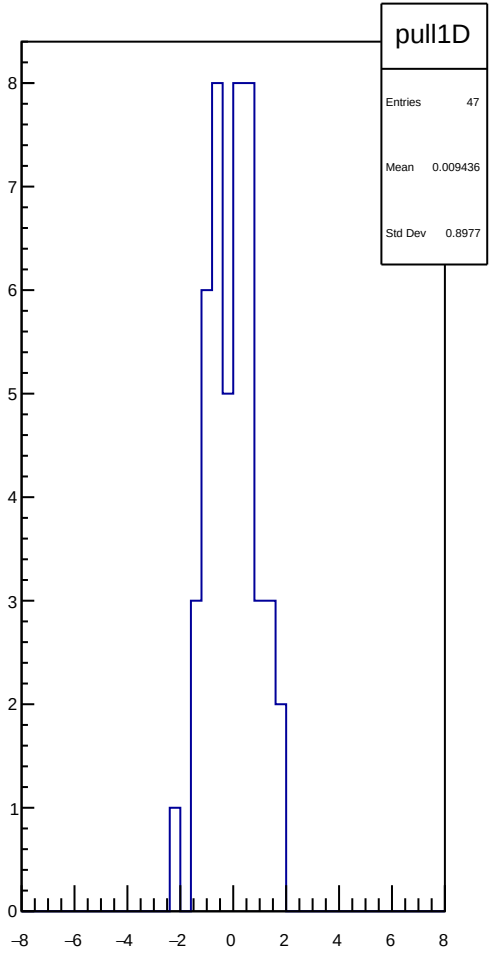

pull1D
Entries 47
Mean −0.05454
Std Dev 0.9354

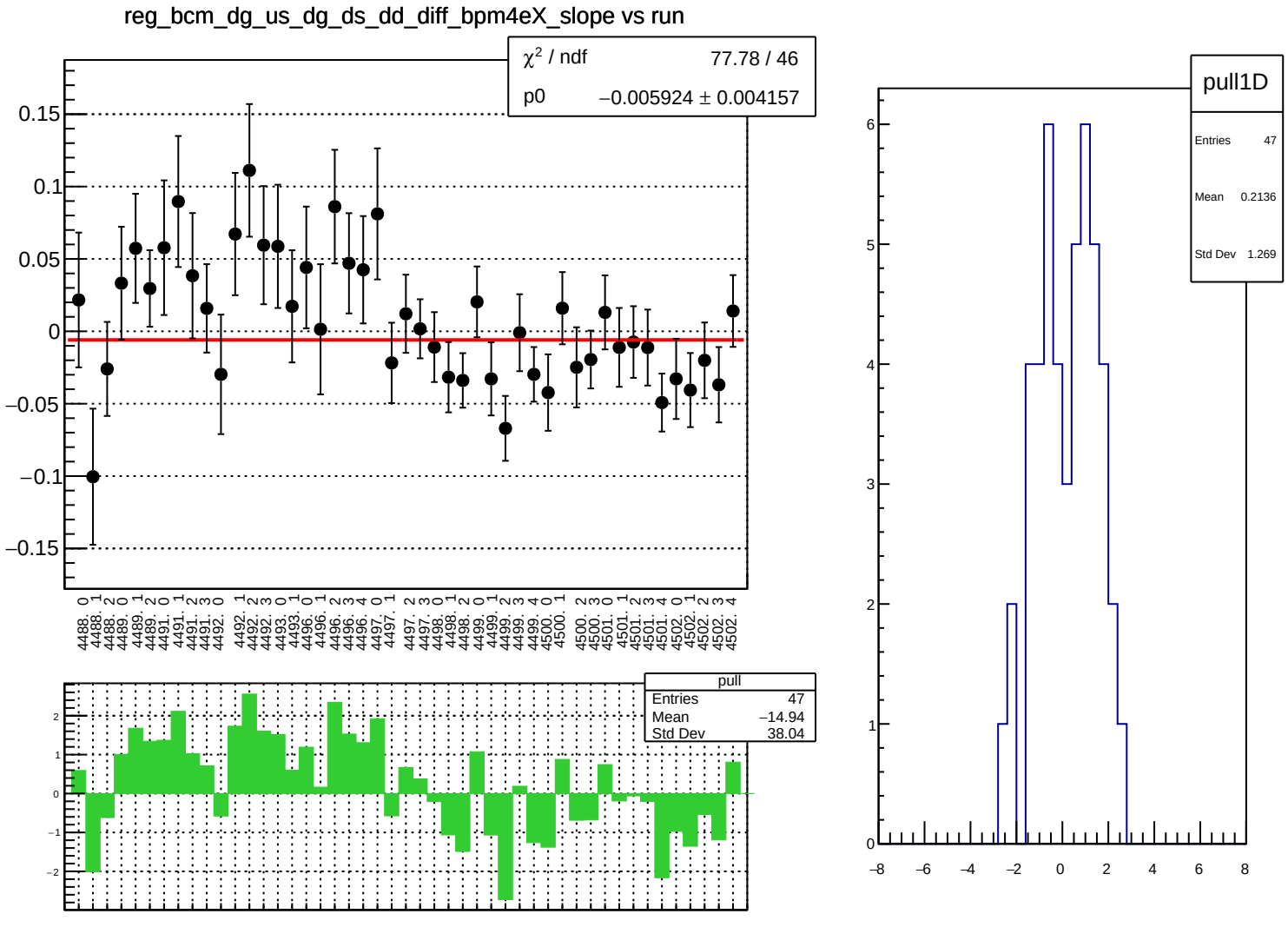

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 39.14 / 46
p0 0.0009246 ± 0.006126
pull
Entries 47
Mean −9.465
Std Dev 37.42

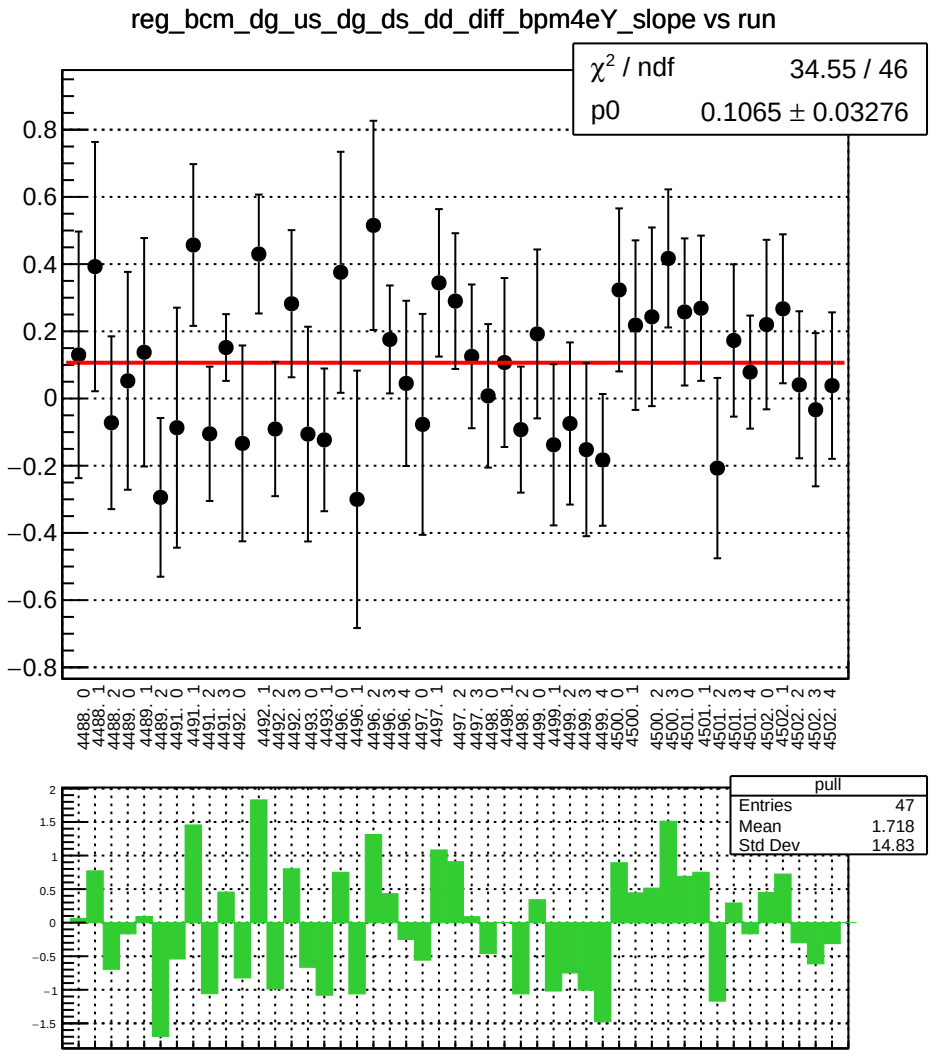

pull1D
Entries 47
Mean −0.06085
Std Dev 0.9106

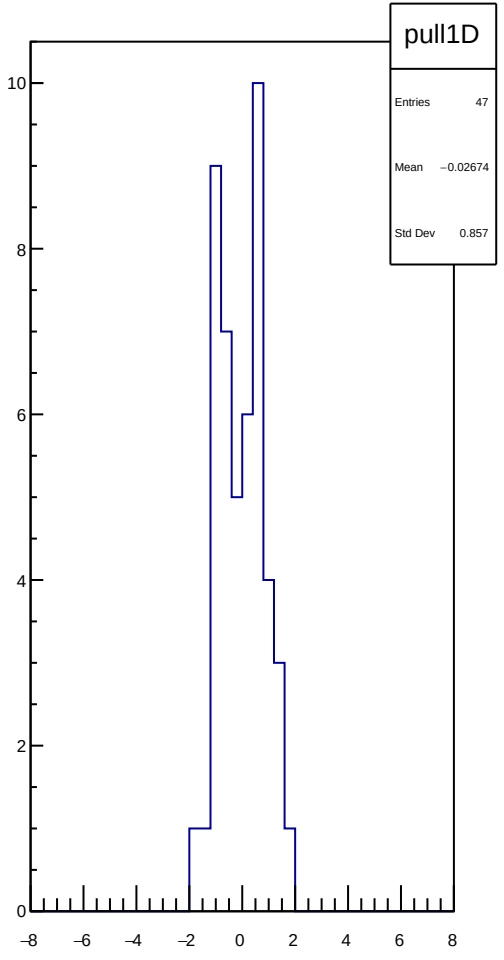

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 71.24 / 46
p0 −0.07238 ± 0.02479
pull
Entries 47
Mean −14.11
Std Dev 35.59
pull1D
Entries 47
Mean −0.1951
Std Dev 1.216

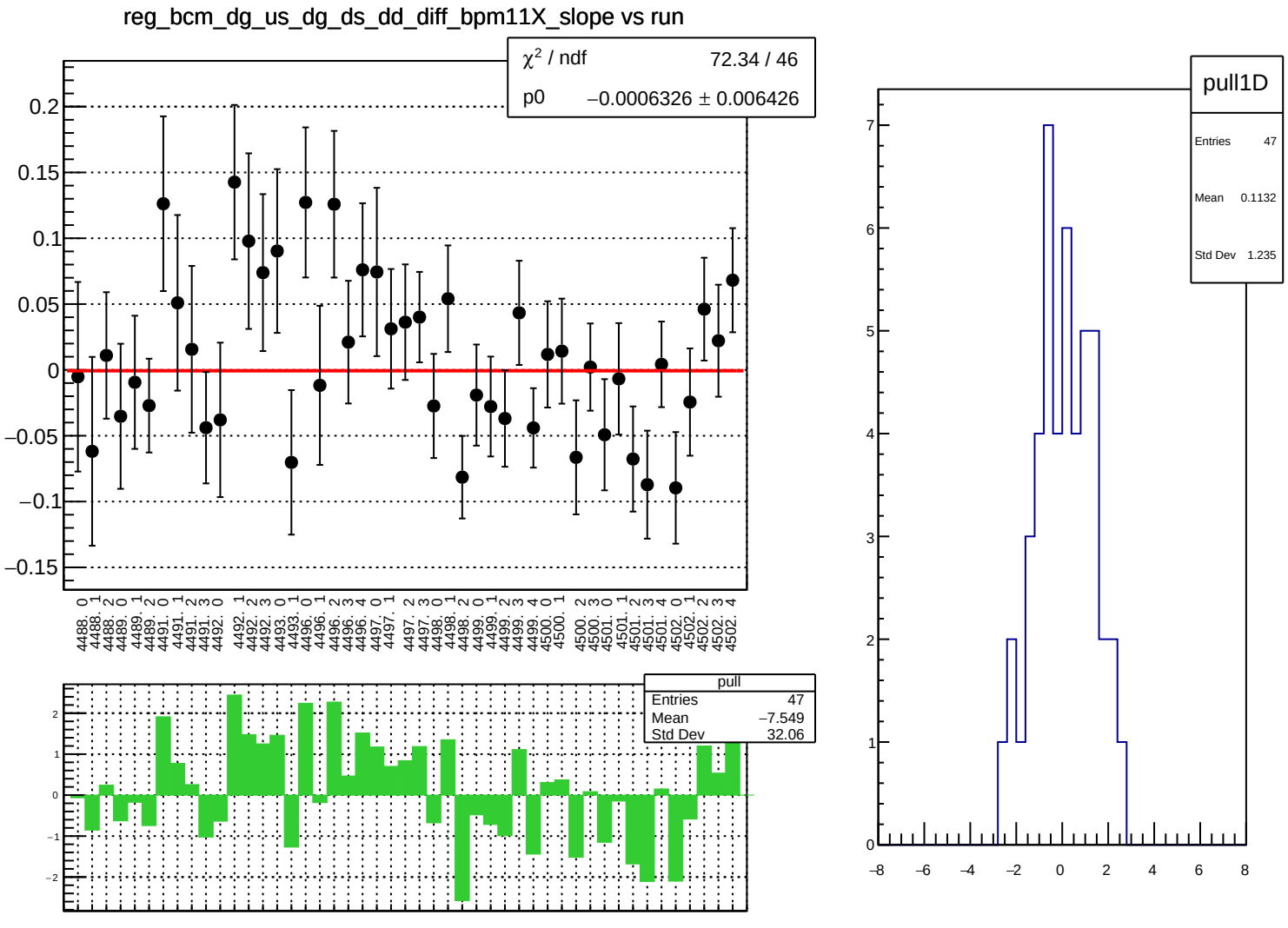

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.88 / 46
p0 −0.06094 ± 0.02792
pull
Entries 47
Mean −98.94
Std Dev 119.6

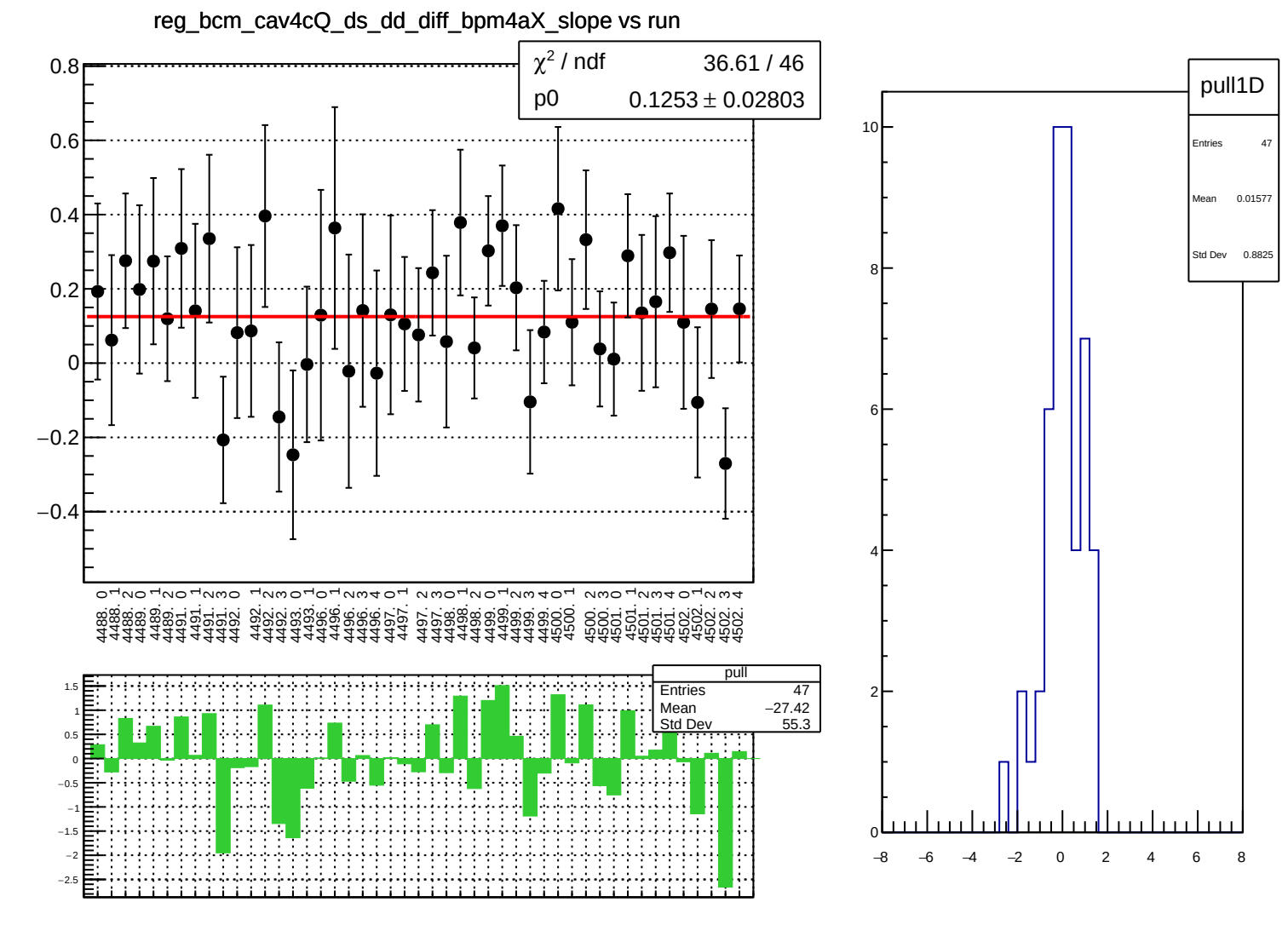

pull1D
Entries 47
Mean 0.009436
Std Dev 0.8977

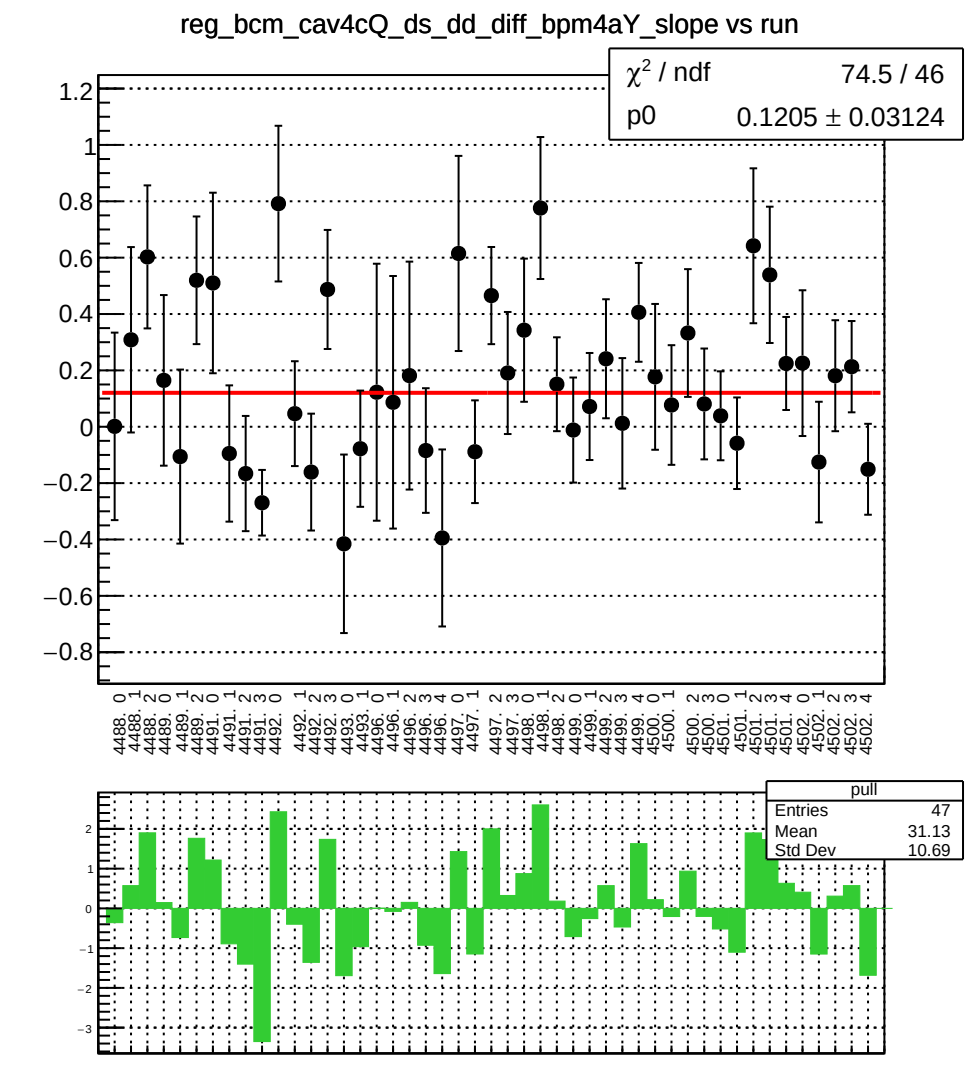

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.78 / 46
p0 −0.005924 ± 0.004157
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −14.94
Std Dev 38.04
2
1
0
−1
−2
pull1D
Entries 47
Mean 0.2136
Std Dev 1.269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

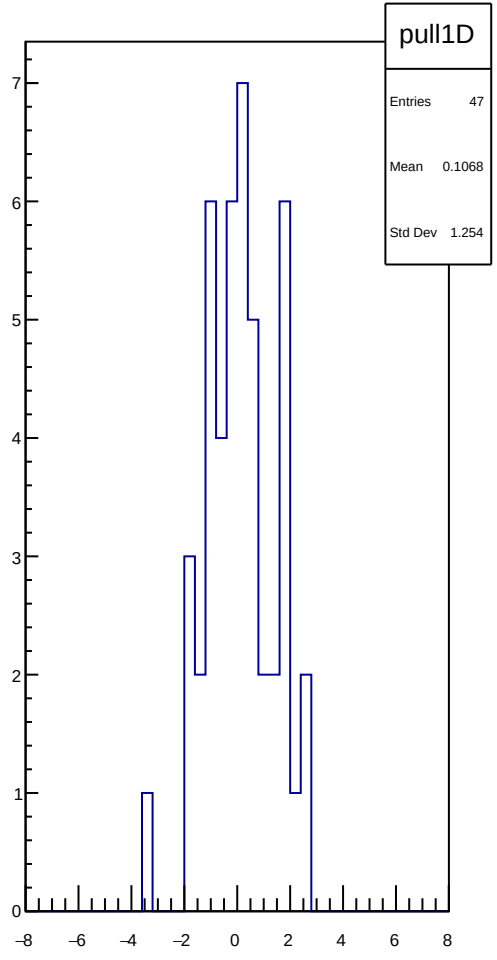

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.55 / 46
p0 0.1065 ± 0.03276
pull
Entries 47
Mean 1.718
Std Dev 14.83

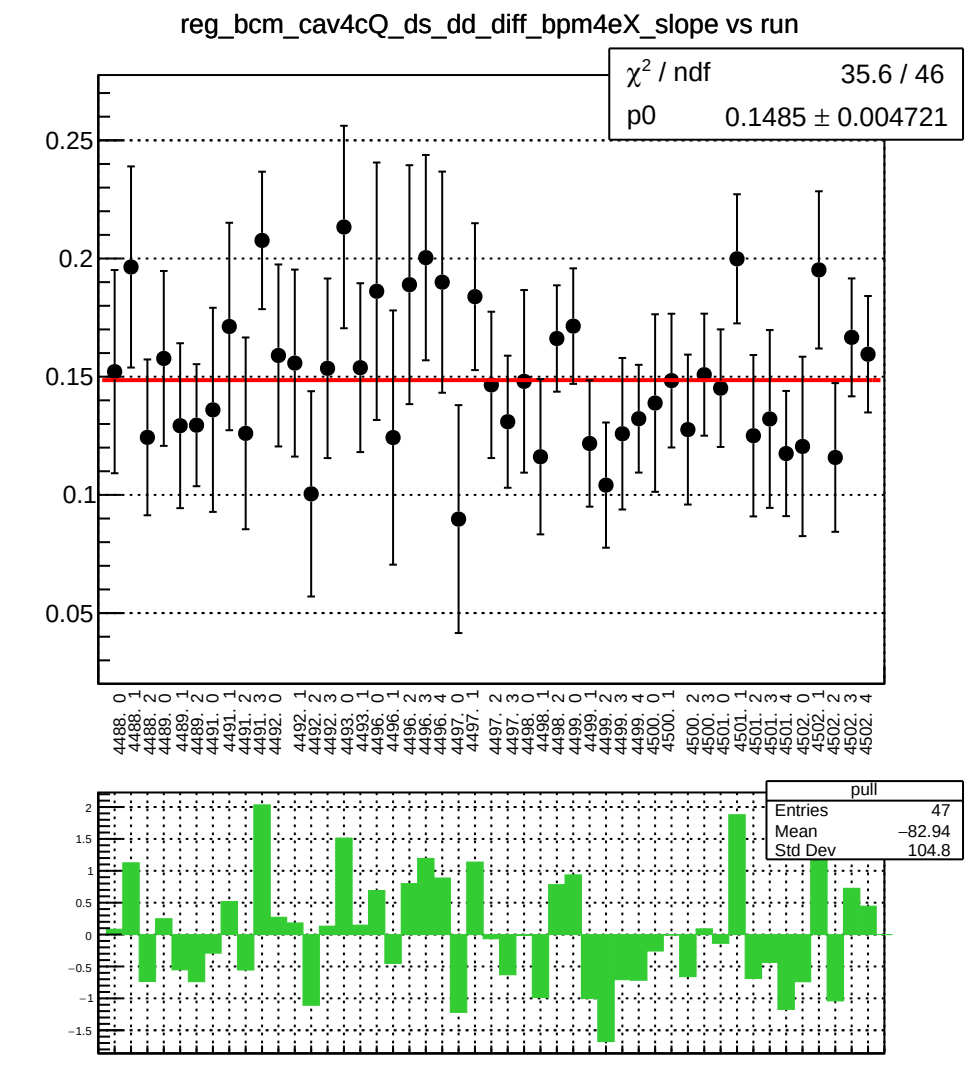

pull1D
Entries 47
Mean −0.02674
Std Dev 0.857

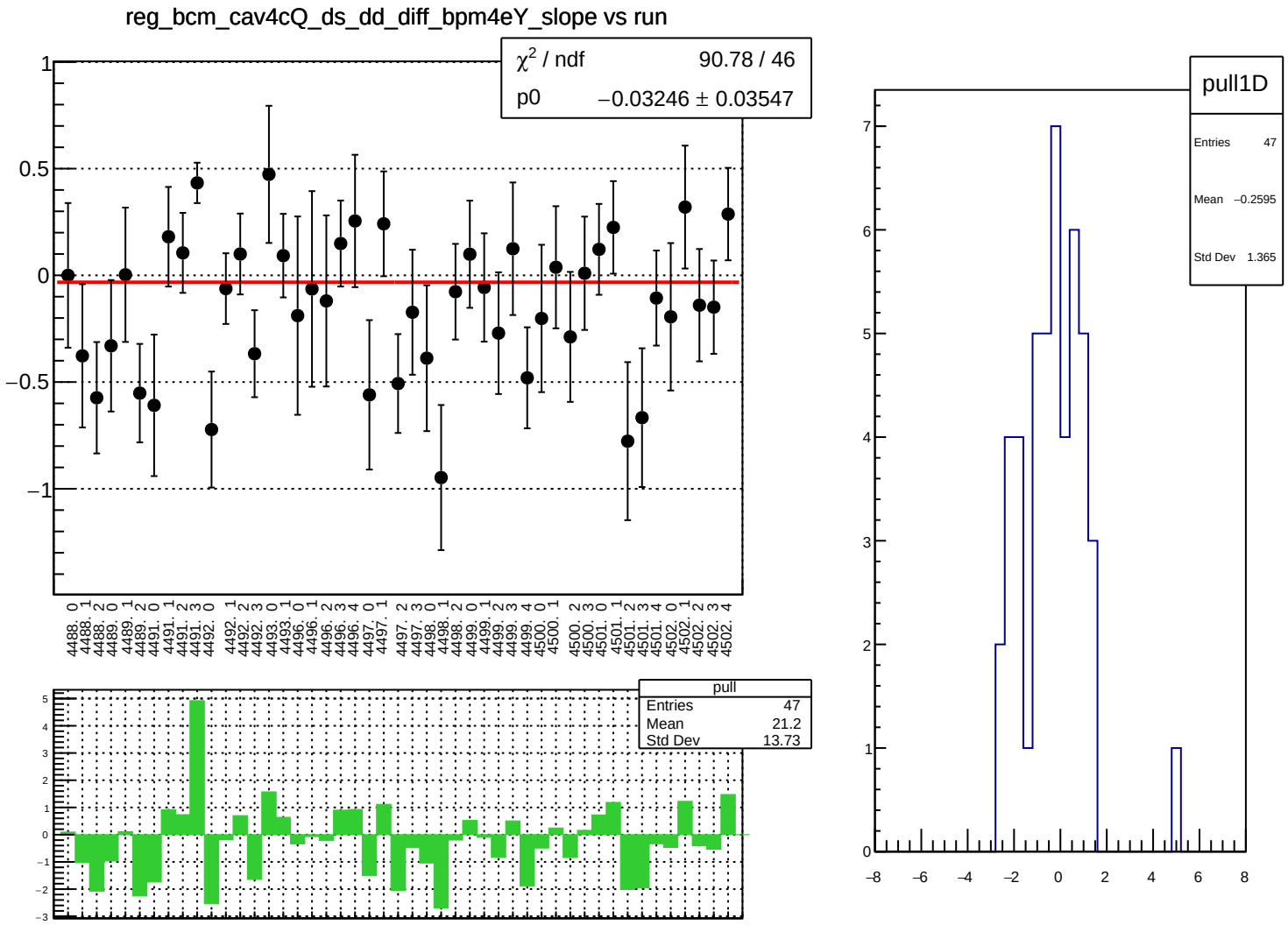

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 72.34 / 46
p0 −0.0006326 ± 0.006426
pull
Entries 47
Mean −7.549
Std Dev 32.06
pull1D
Entries 47
Mean 0.1132
Std Dev 1.235

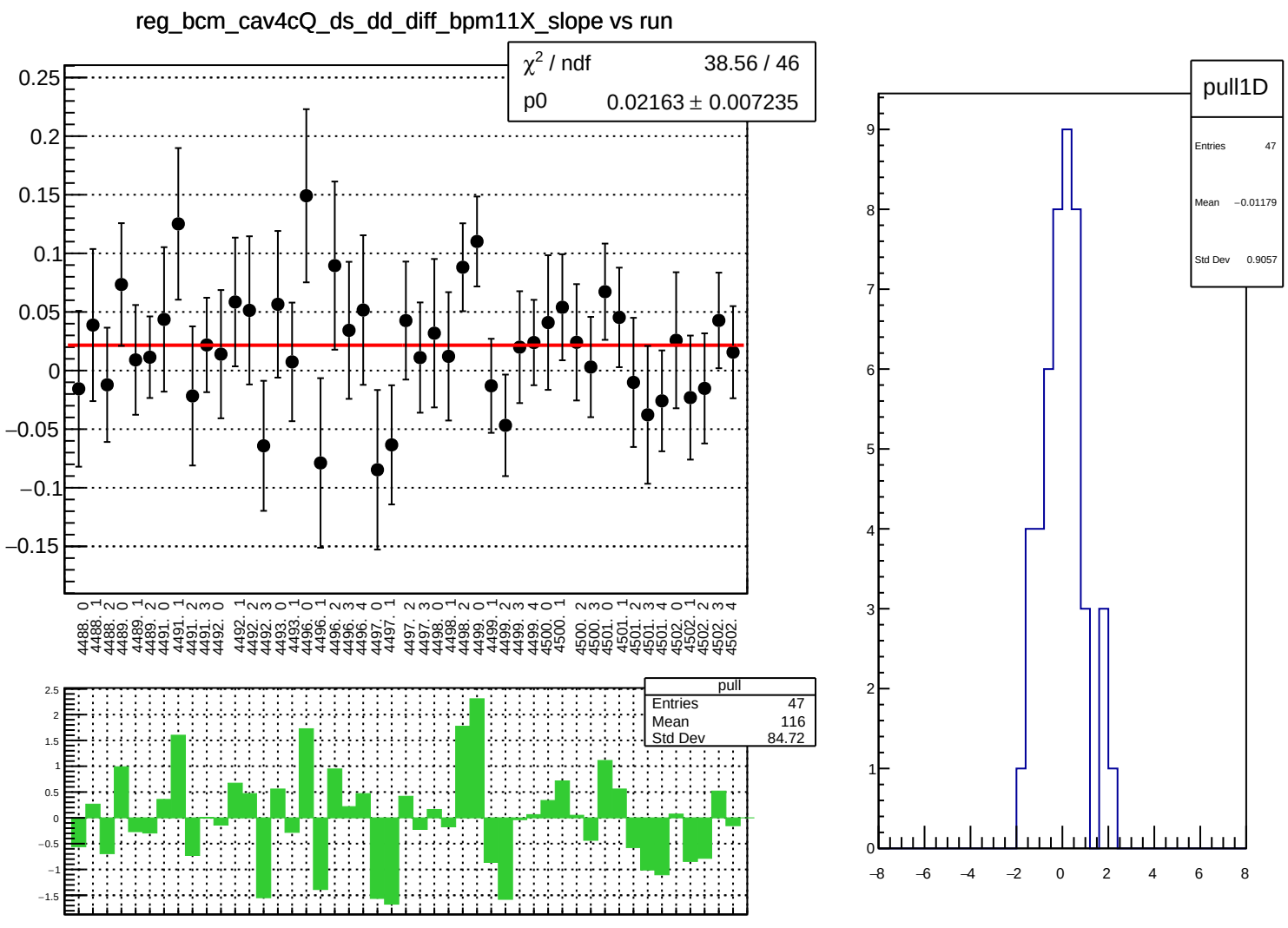

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.61 / 46
p0 0.1253 ± 0.02803
pull
Entries 47
Mean −27.42
Std Dev 55.3
pull1D
Entries 47
Mean 0.01577
Std Dev 0.8825

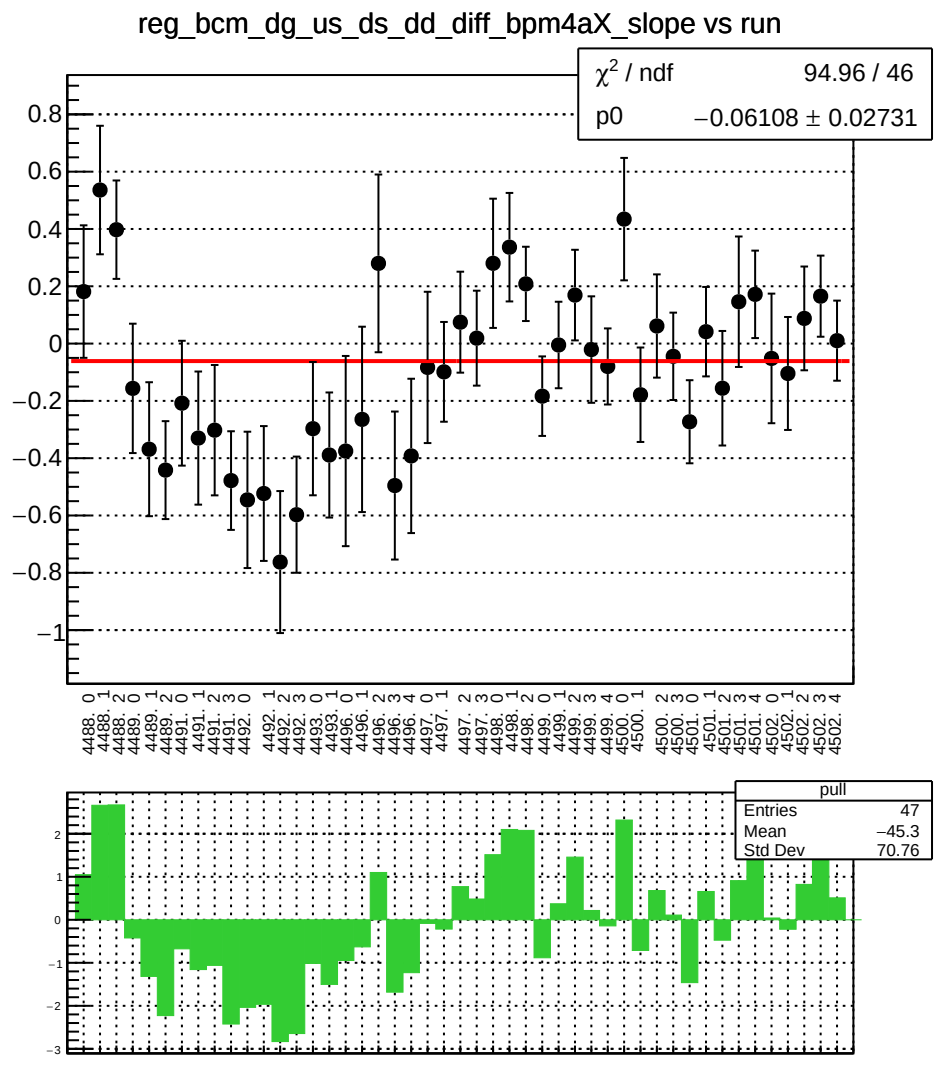

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.5 / 46
p0 0.1205 ± 0.03124
pull
Entries 47
Mean 31.13
Std Dev 10.69

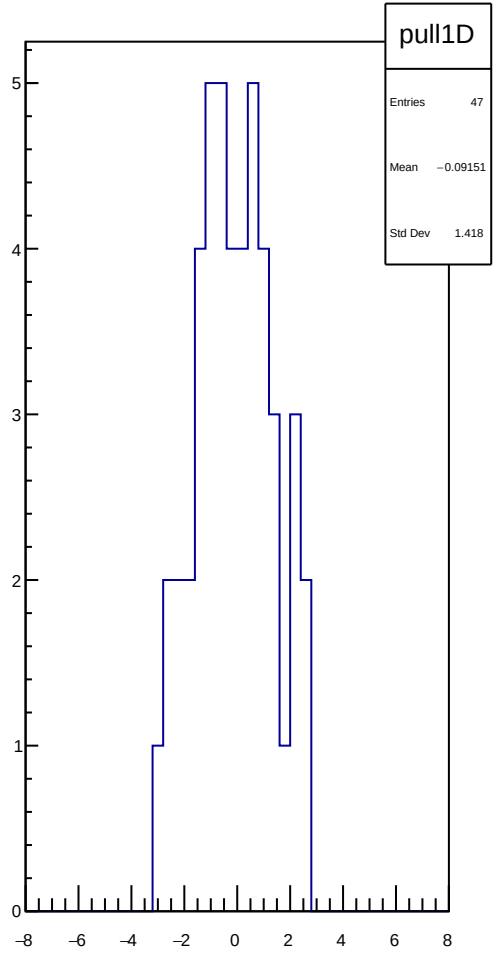

pull1D
Entries 47
Mean 0.1068
Std Dev 1.254

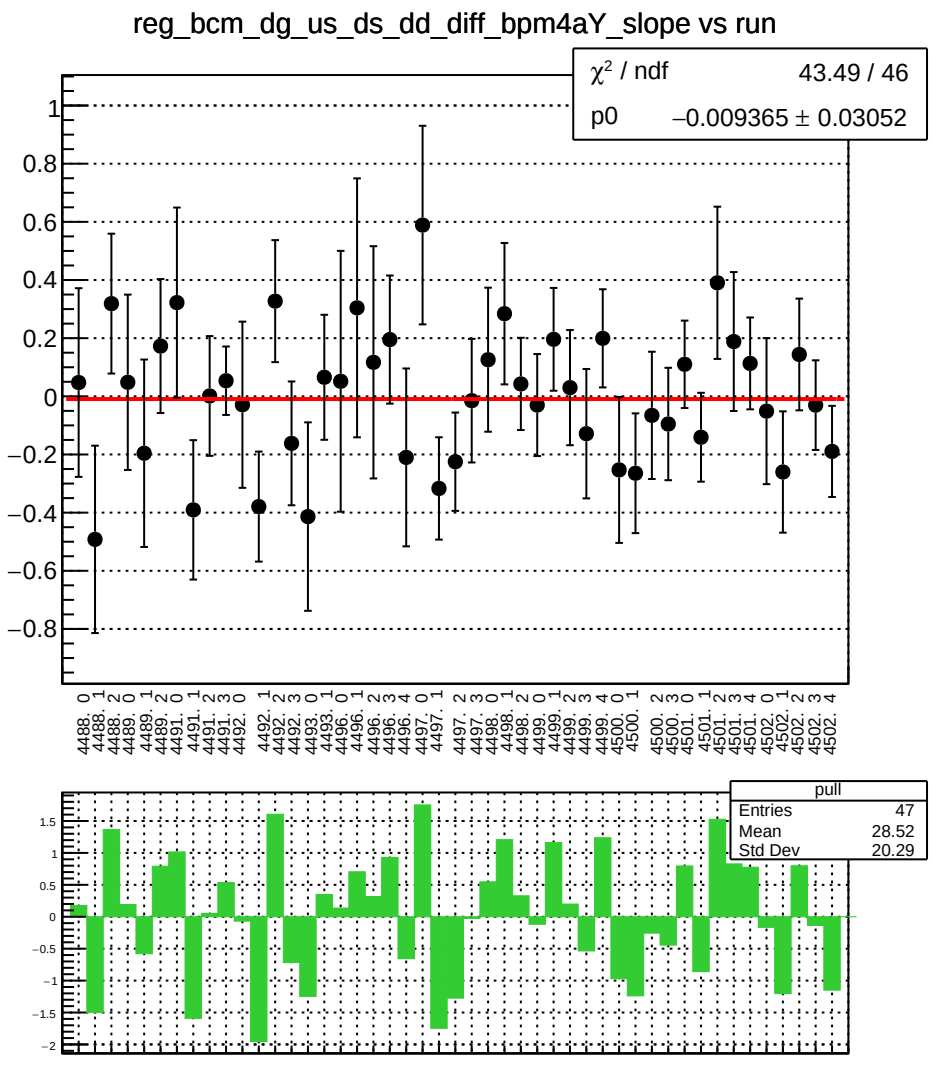

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.6 / 46
p0 0.1485 ± 0.004721
0.25
0.2
0.15
0.1
0.05
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −82.94
Std Dev 104.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 47
Mean 0.01354
Std Dev 0.8702
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

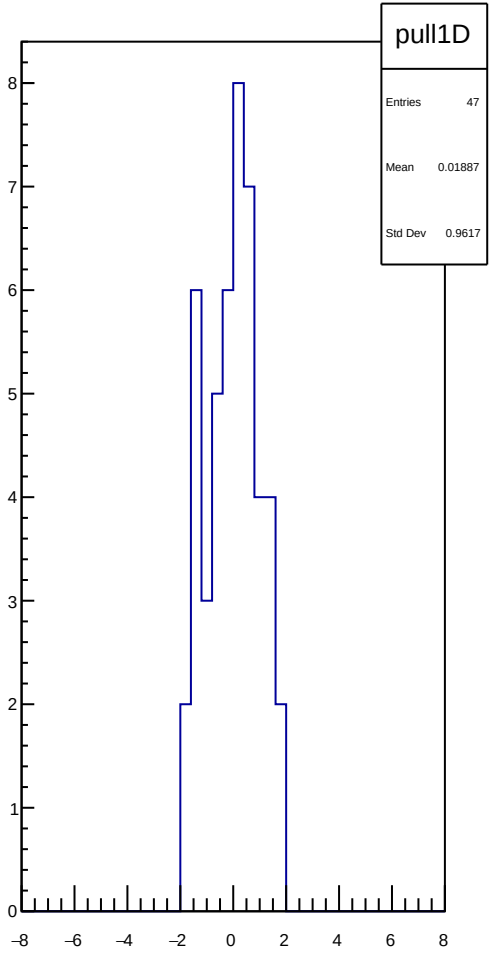

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.78 / 46
p0 −0.03246 ± 0.03547
pull
Entries 47
Mean 21.2
Std Dev 13.73
pull1D
Entries 47
Mean −0.2595
Std Dev 1.365

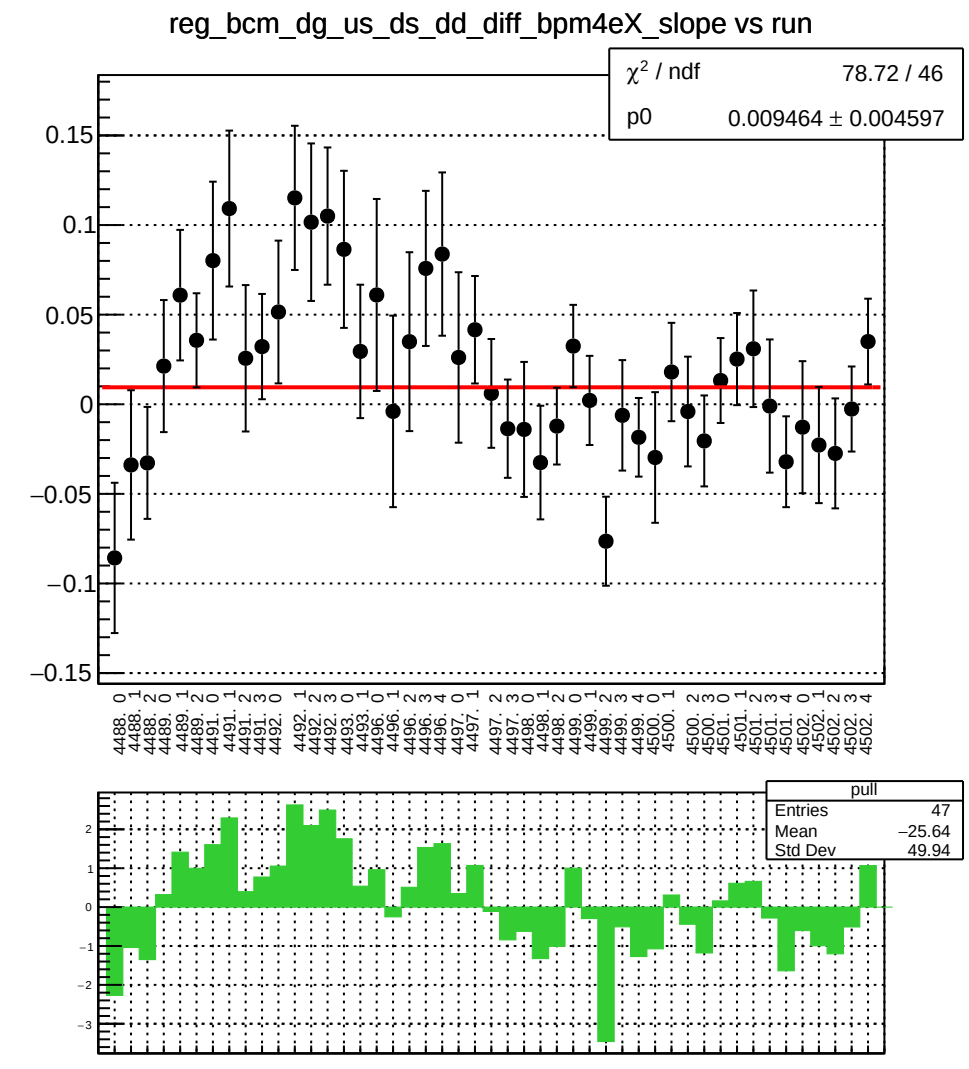

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 38.56 / 46
p0 0.02163 ± 0.007235
pull
Entries 47
Mean 116
Std Dev 84.72
pull1D
Entries 47
Mean −0.01179
Std Dev 0.9057

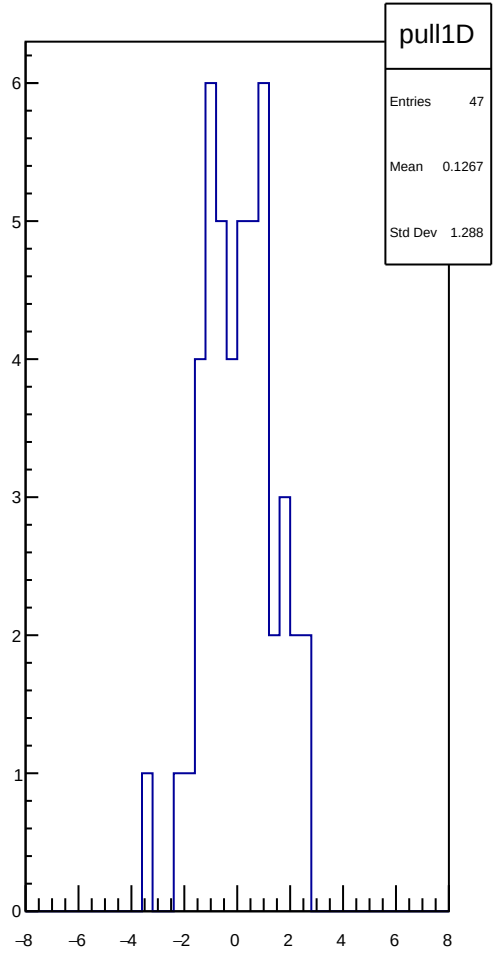

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 94.96 / 46
p0 −0.06108 ± 0.02731
pull
Entries 47
Mean −45.3
Std Dev 70.76

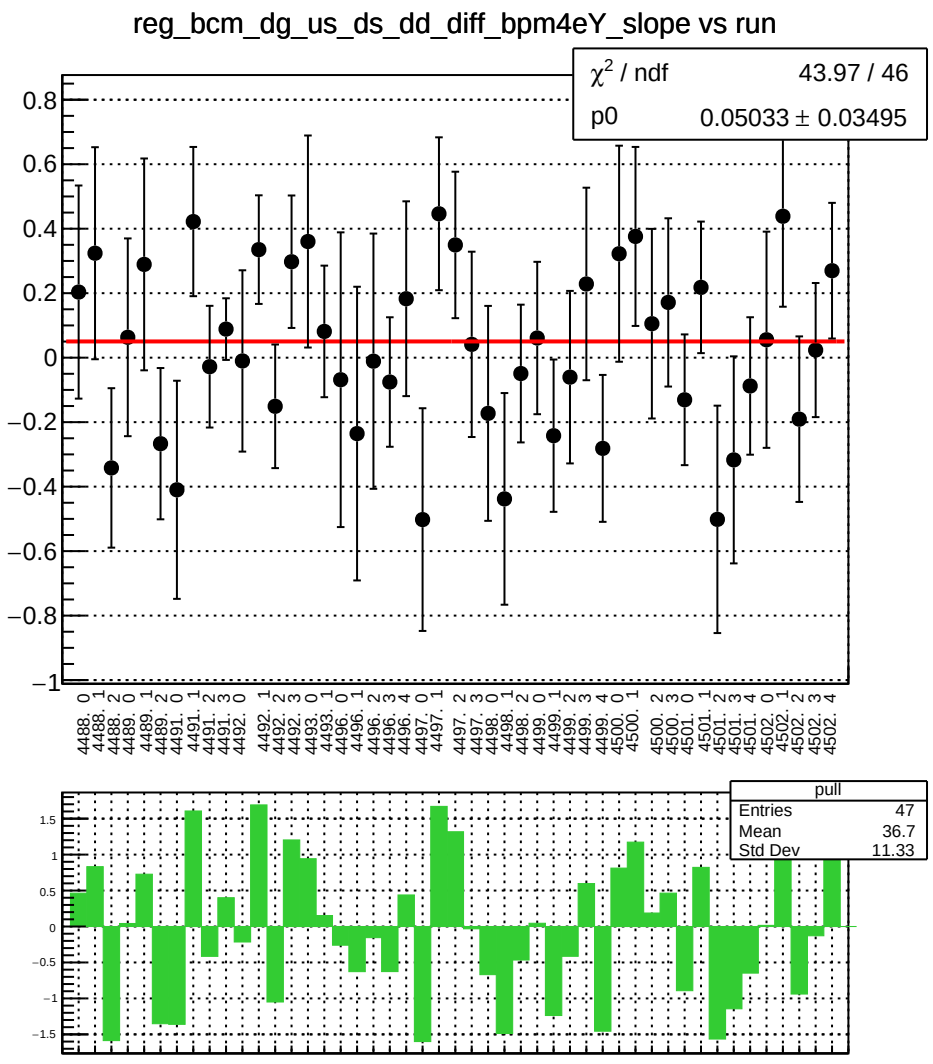

pull1D
Entries 47
Mean −0.09151
Std Dev 1.418

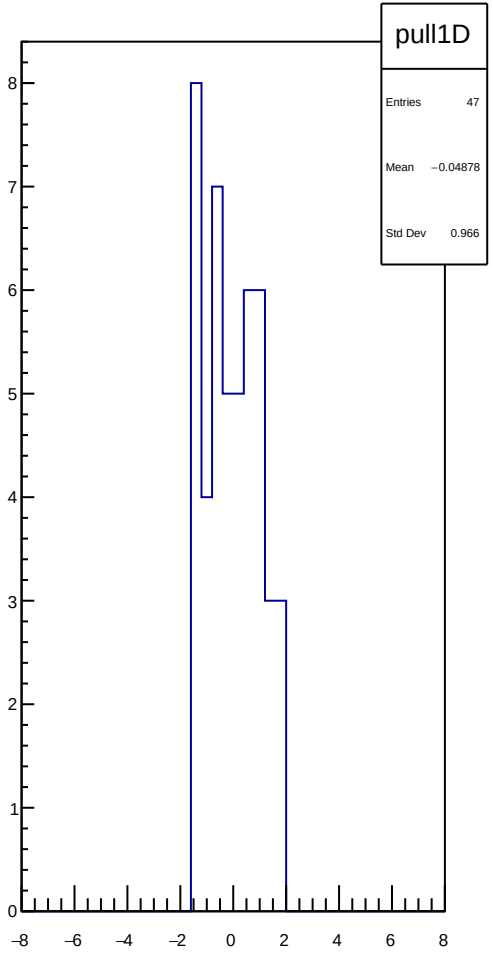

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.49 / 46
p0 −0.009365 ± 0.03052
pull
Entries 47
Mean 28.52
Std Dev 20.29

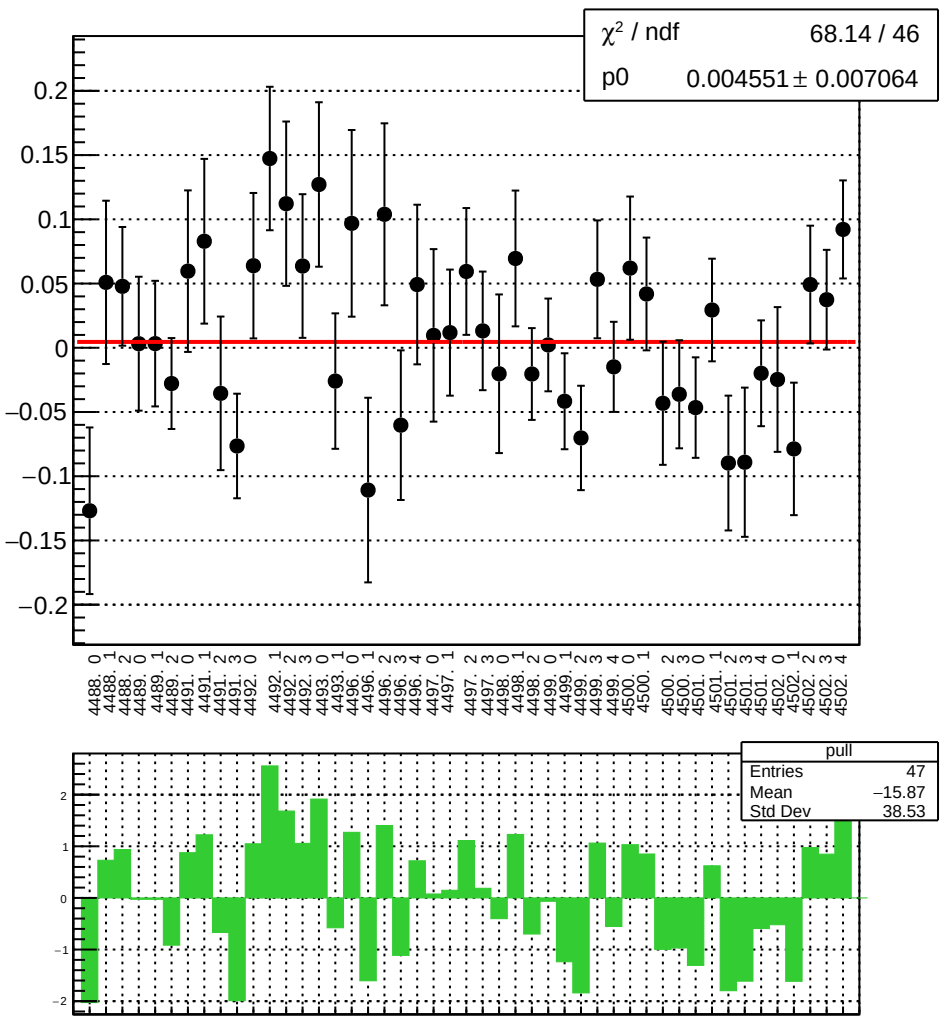

pull1D
Entries 47
Mean 0.01887
Std Dev 0.9617

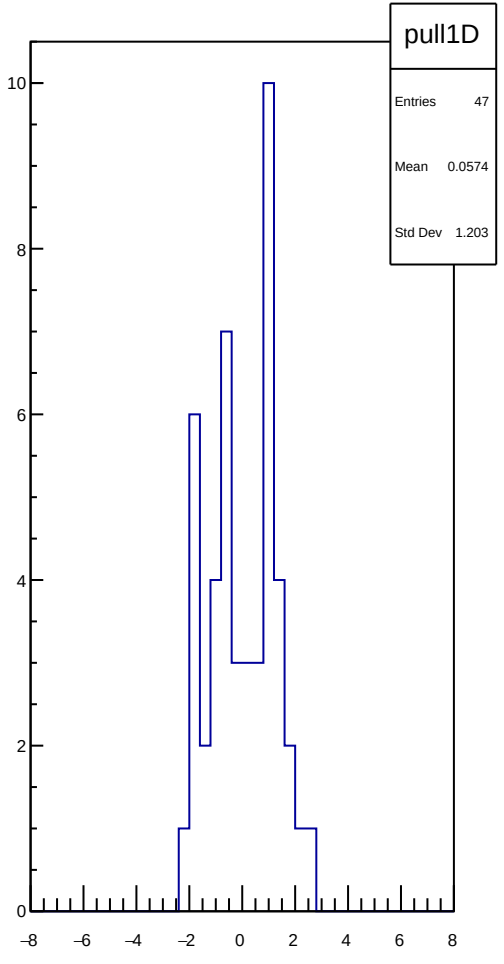

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.72 / 46
p0 0.009464 ± 0.004597
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −25.64
Std Dev 49.94
2
1
0
−1
−2
−3

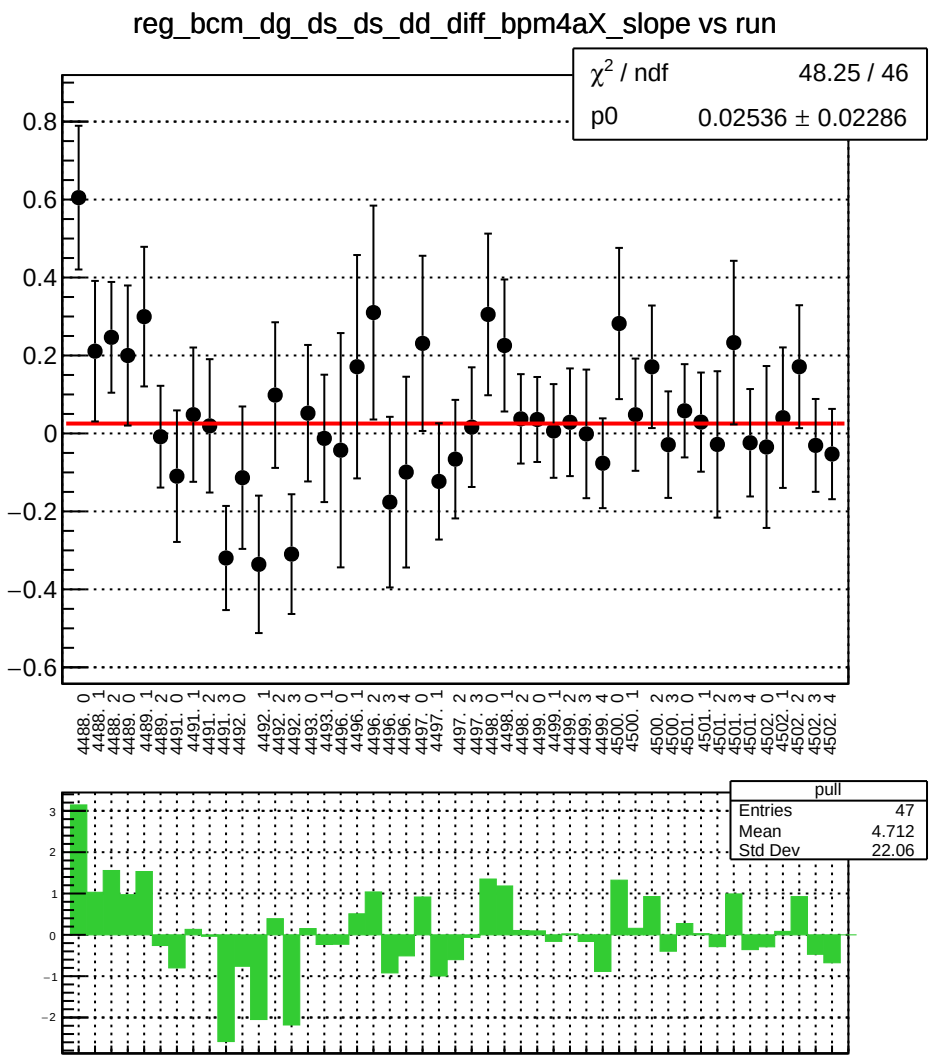

pull1D
Entries 47
Mean 0.1267
Std Dev 1.288
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

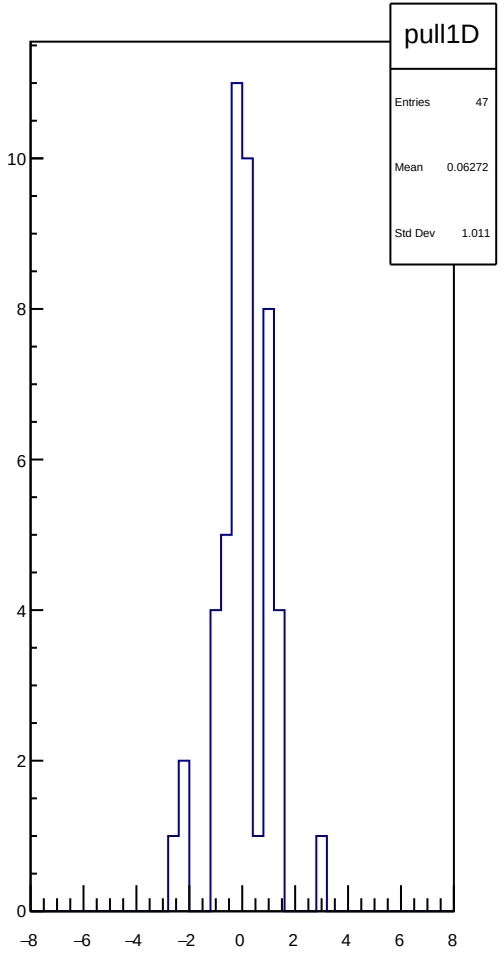

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.97 / 46
p0 0.05033 ± 0.03495
pull
Entries 47
Mean 36.7
Std Dev 11.33

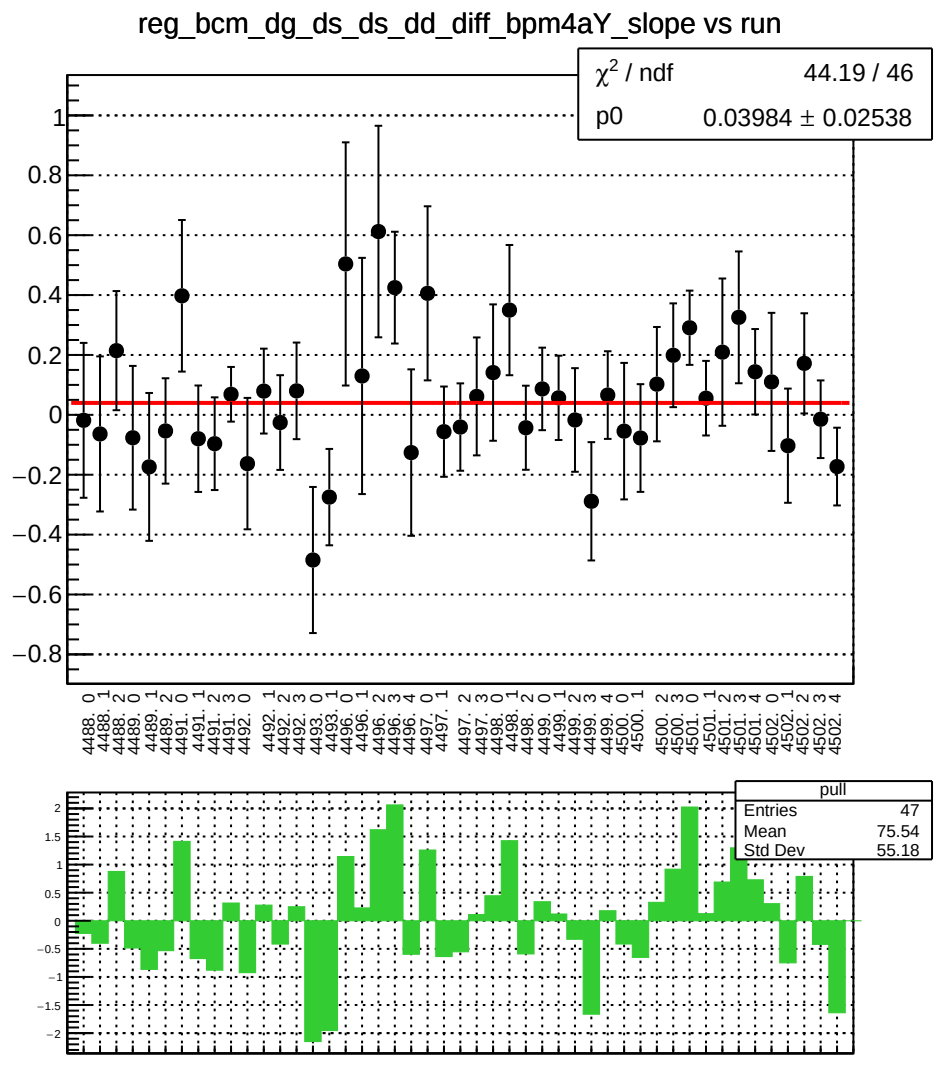

pull1D
Entries 47
Mean −0.04878
Std Dev 0.966

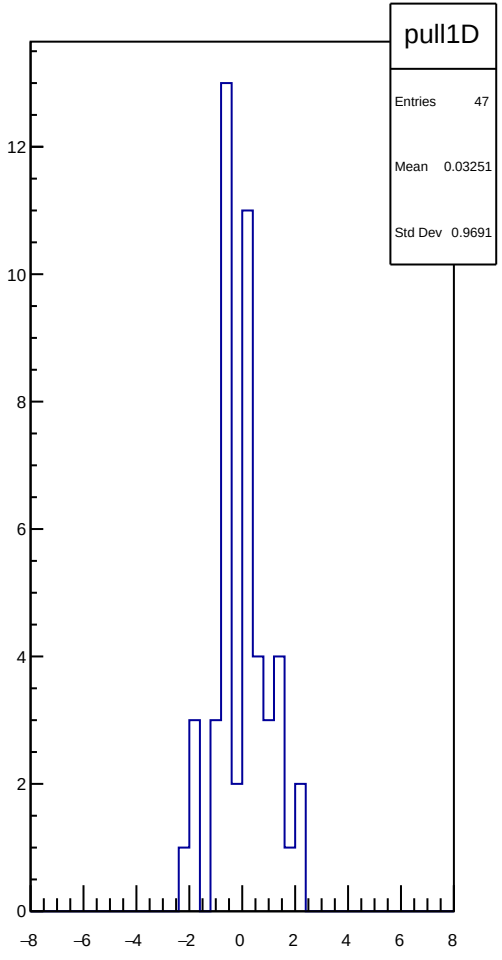

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 68.14 / 46
p0 0.004551 ± 0.007064
pull
Entries 47
Mean −15.87
Std Dev 38.53

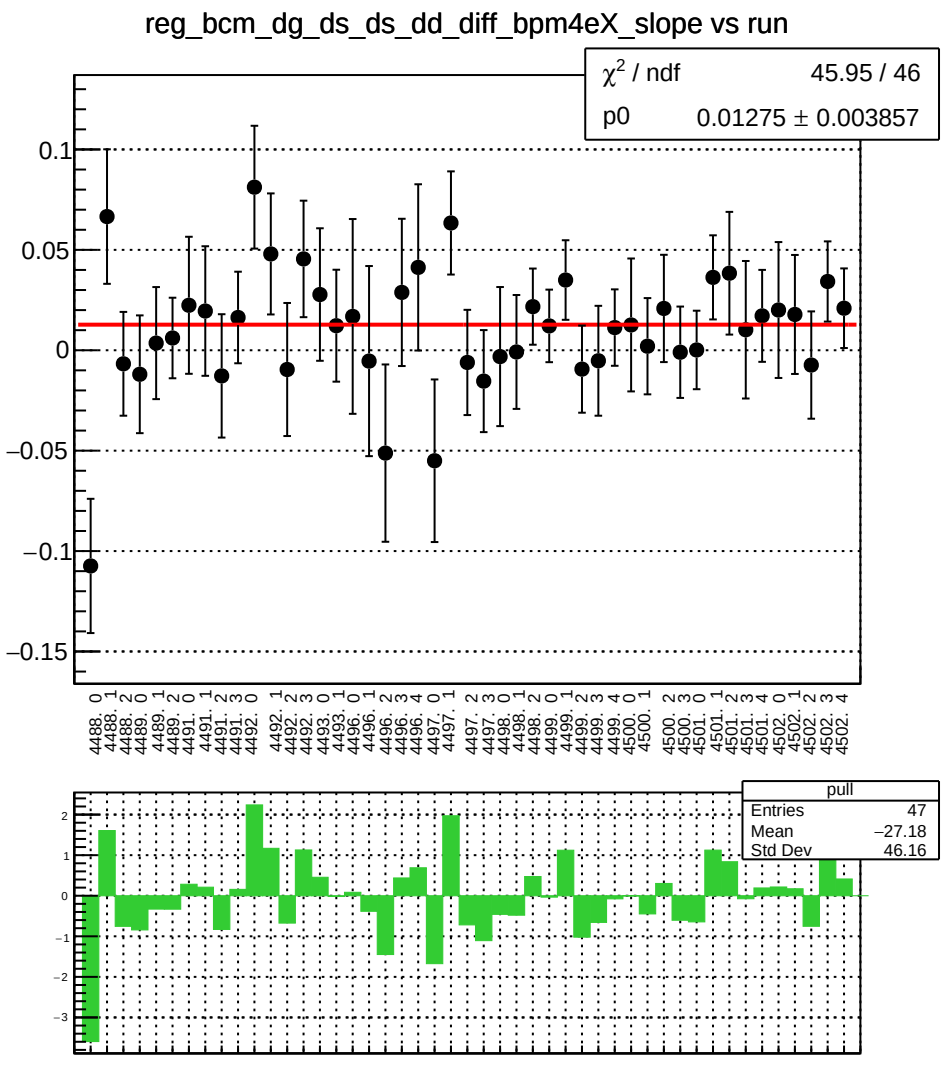

pull1D
Entries 47
Mean 0.0574
Std Dev 1.203

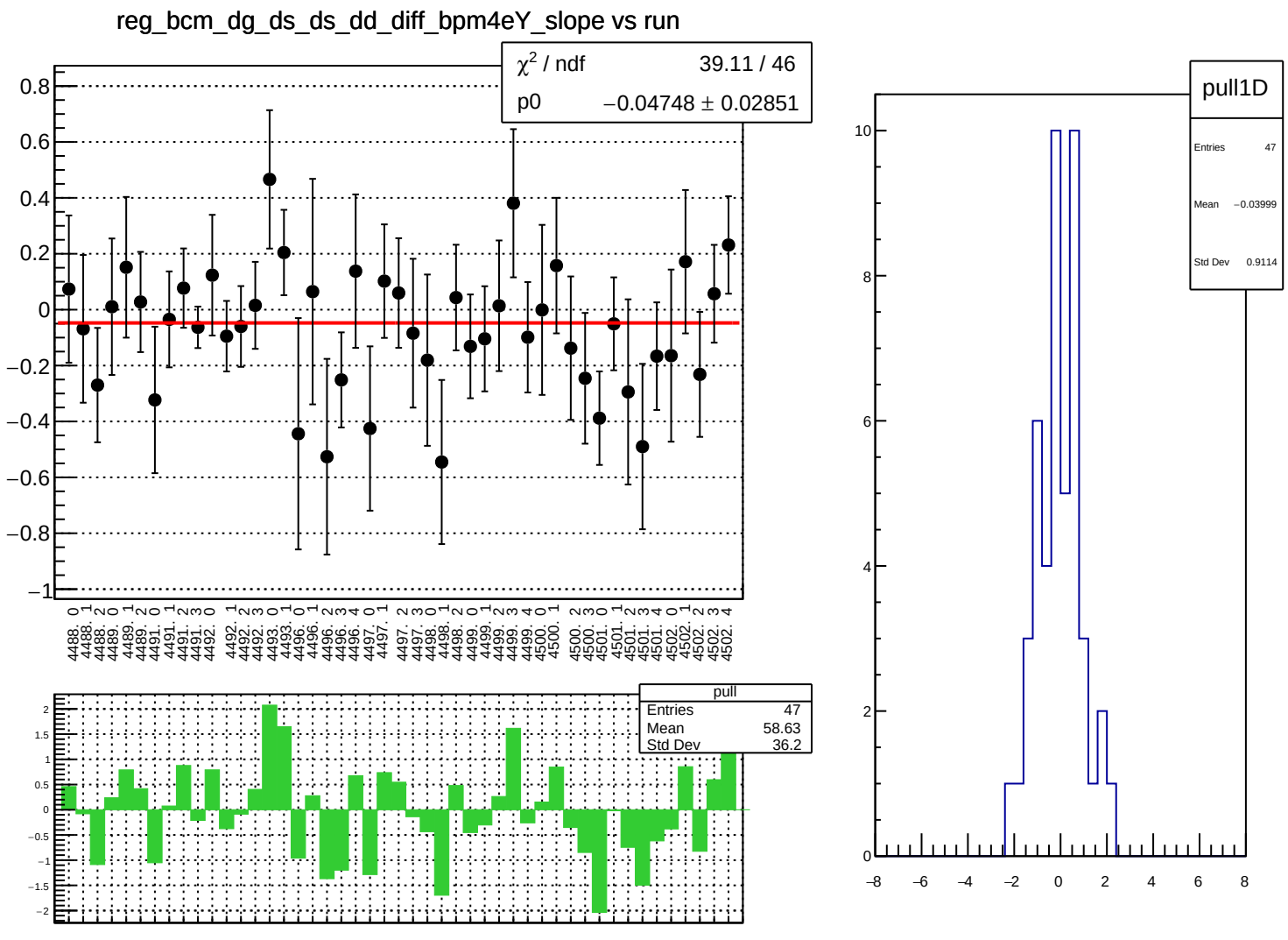

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.25 / 46
p0 0.02536 ± 0.02286
pull
Entries 47
Mean 4.712
Std Dev 22.06

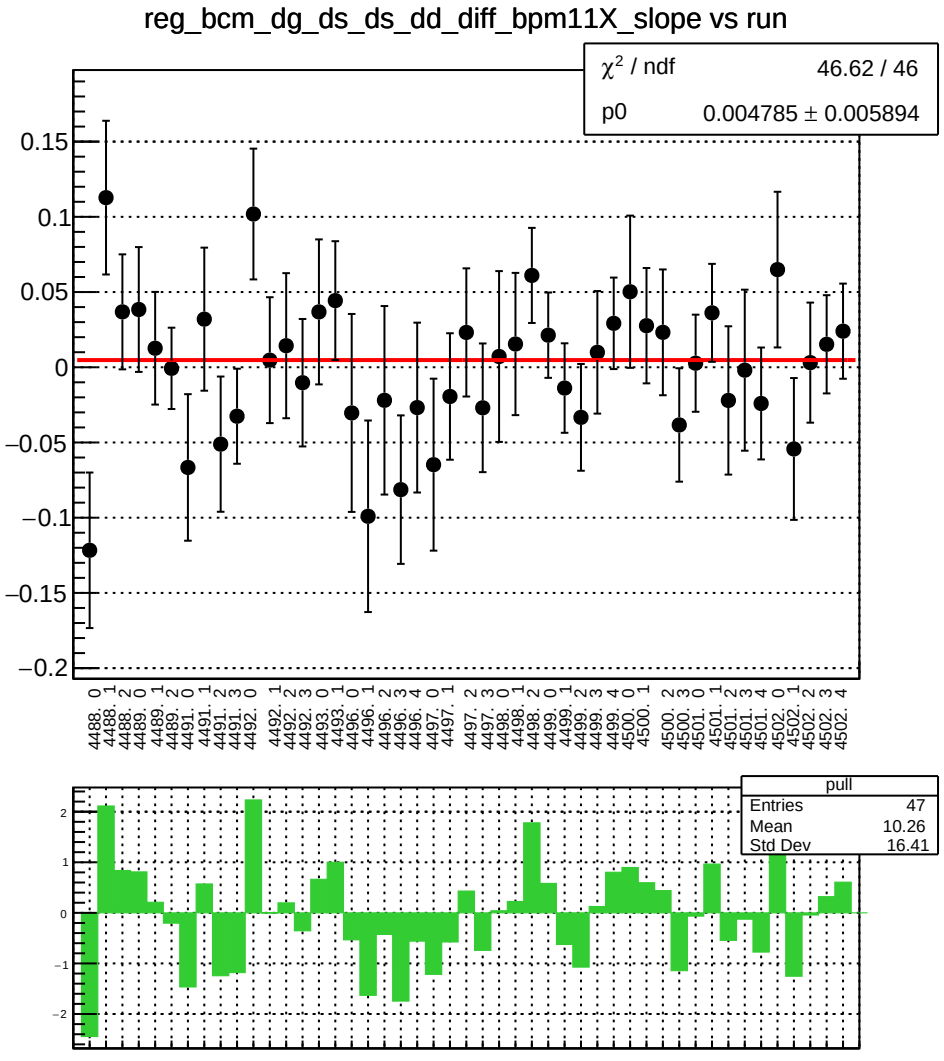

pull1D
Entries 47
Mean 0.06272
Std Dev 1.011

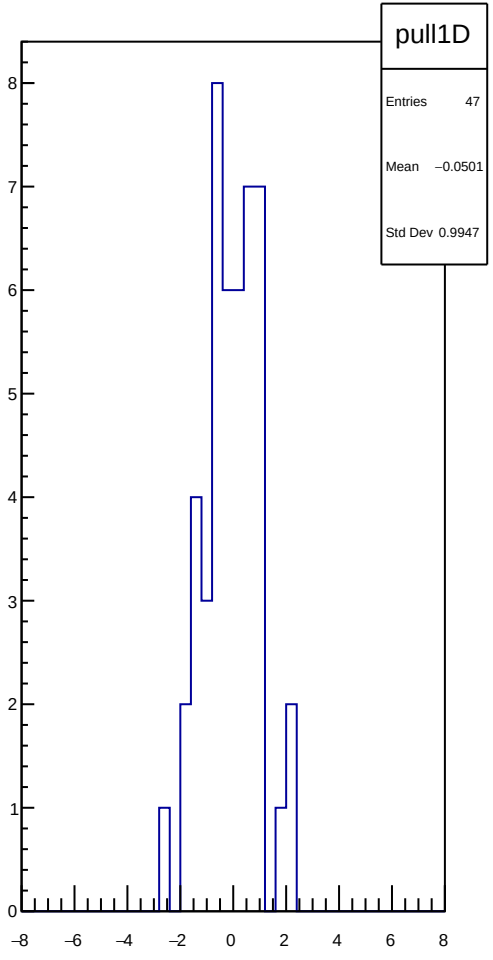

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.19 / 46
p0 0.03984 ± 0.02538
pull
Entries 47
Mean 75.54
Std Dev 55.18


pull1D
Entries 47
Mean 0.03251
Std Dev 0.9691


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.95 / 46
p0 0.01275 ± 0.003857
0.1
0.05
0
−0.05
−0.1
−0.15
4488. 0
4488. 1
4488. 2
4489. 0
4489. 1
4489. 2
4491. 0
4491. 1
4491. 2
4491. 3
4492. 0
4492. 1
4492. 2
4492. 3
4493. 0
4493. 1
4496. 0
4496. 1
4496. 2
4496. 3
4496. 4
4497. 0
4497. 1
4497. 2
4497. 3
4498. 0
4498. 1
4498. 2
4499. 0
4499. 1
4499. 2
4499. 3
4499. 4
4500. 0
4500. 1
4500. 2
4500. 3
4501. 0
4501. 1
4501. 2
4501. 3
4501. 4
4502. 0
4502. 1
4502. 2
4502. 3
4502. 4
pull
Entries 47
Mean −27.18
Std Dev 46.16
2
1
0
−1
−2
−3
pull1D
Entries 47
Mean −0.03398
Std Dev 0.9882
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.11 / 46
p0 −0.04748 ± 0.02851
pull
Entries 47
Mean 58.63
Std Dev 36.2
pull1D
Entries 47
Mean −0.03999
Std Dev 0.9114


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 46.62 / 46
p0 0.004785 ± 0.005894
pull
Entries 47
Mean 10.26
Std Dev 16.41


pull1D
Entries 47
Mean −0.0501
Std Dev 0.9947