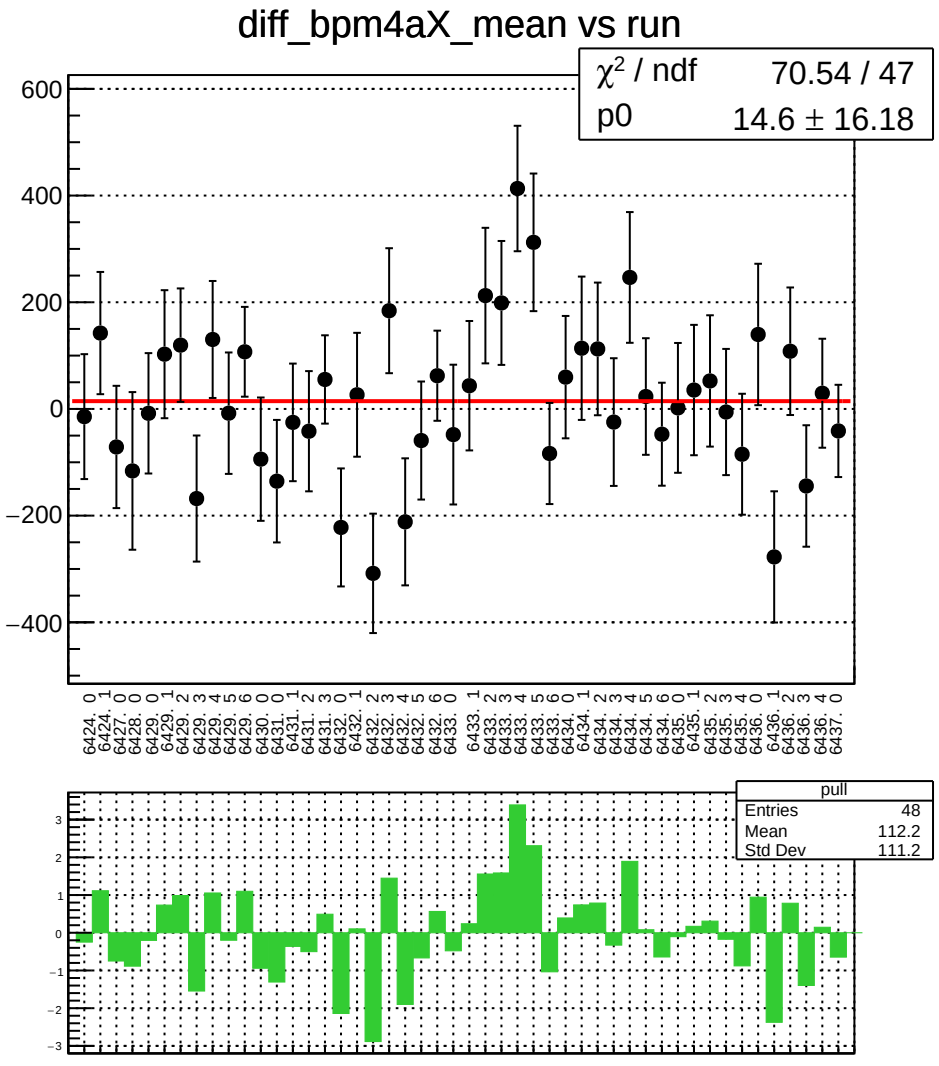
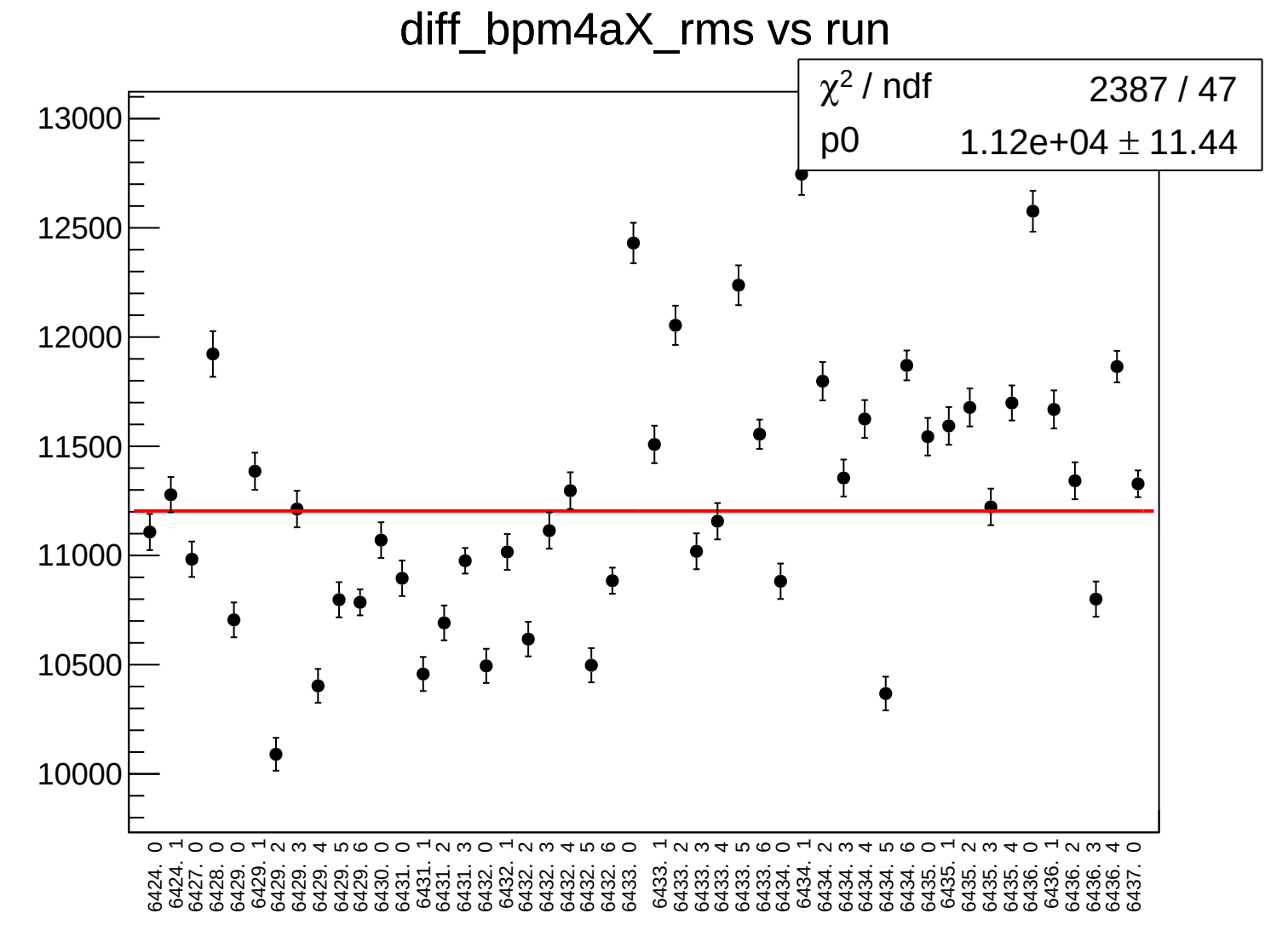
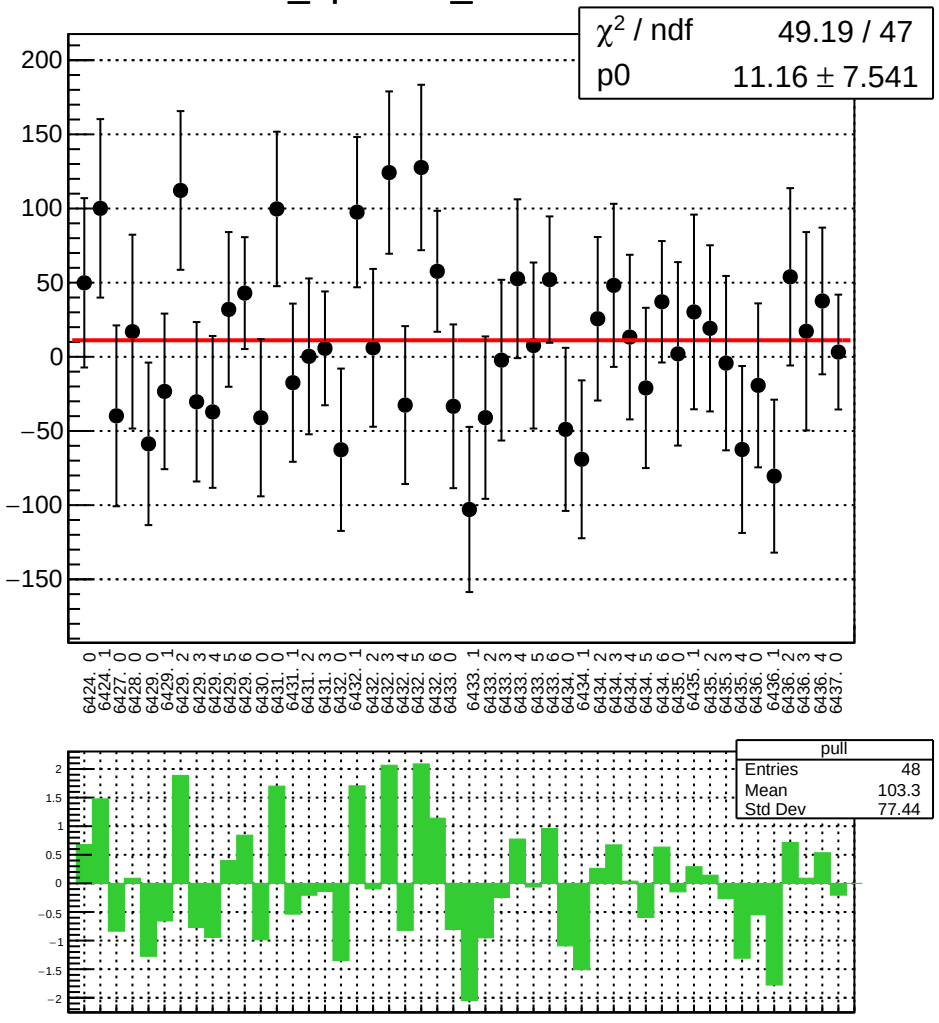
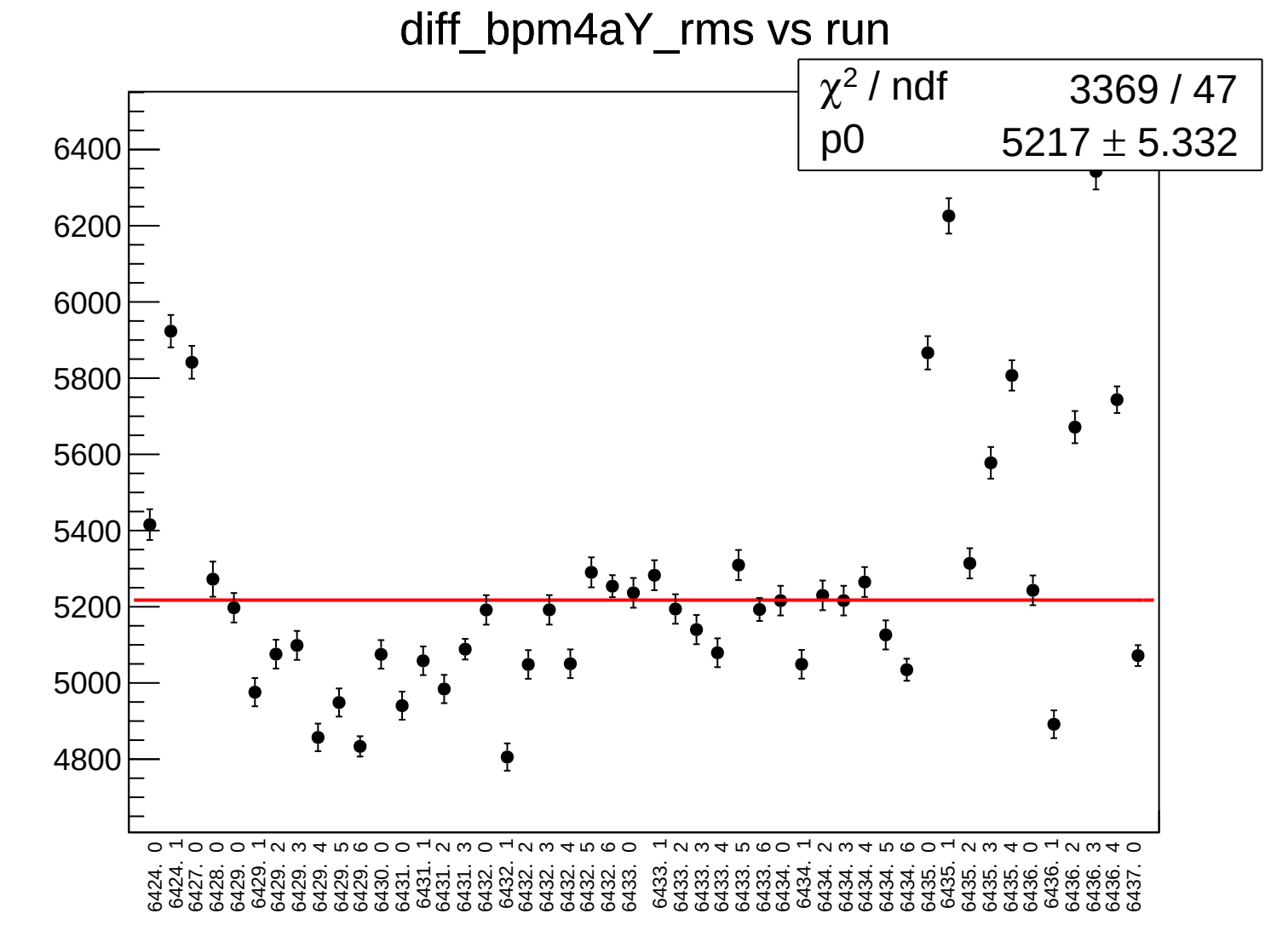
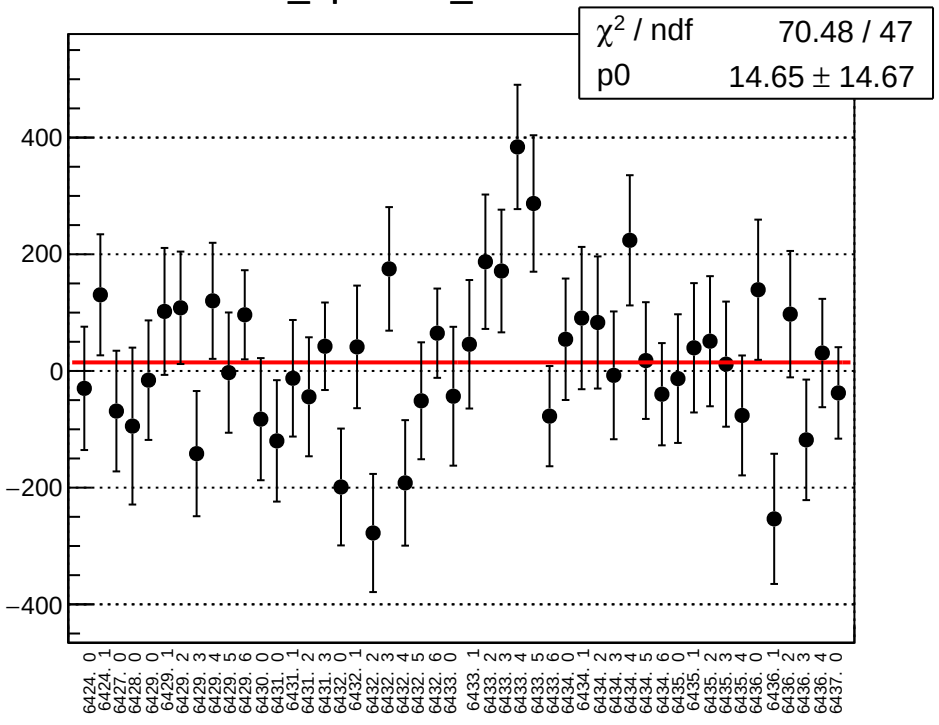
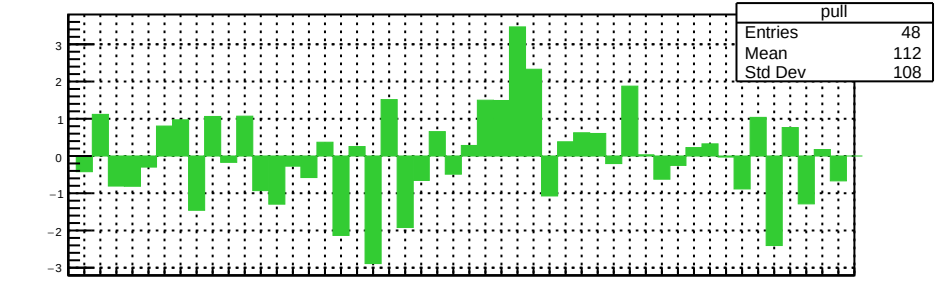

diff_bpm4aX_mean vs run
χ² / ndf 70.54 / 47
p0 14.6 ± 16.18
600
400
200
0
−200
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 112.2
Std Dev 111.2
3
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.006895
Std Dev 1.212
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

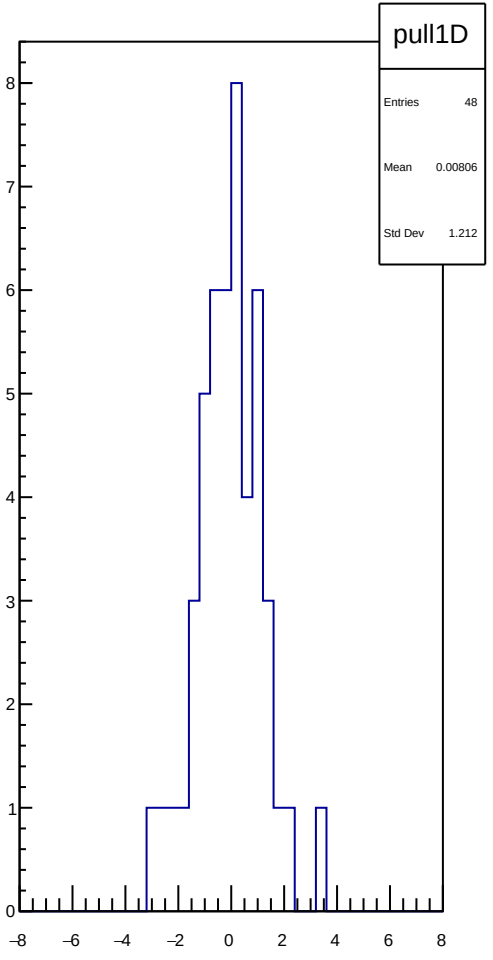

diff_bpm4aX_rms vs run
χ² / ndf 2387 / 47
p0 1.12e+04 ± 11.44
13000
12500
12000
11500
11000
10500
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

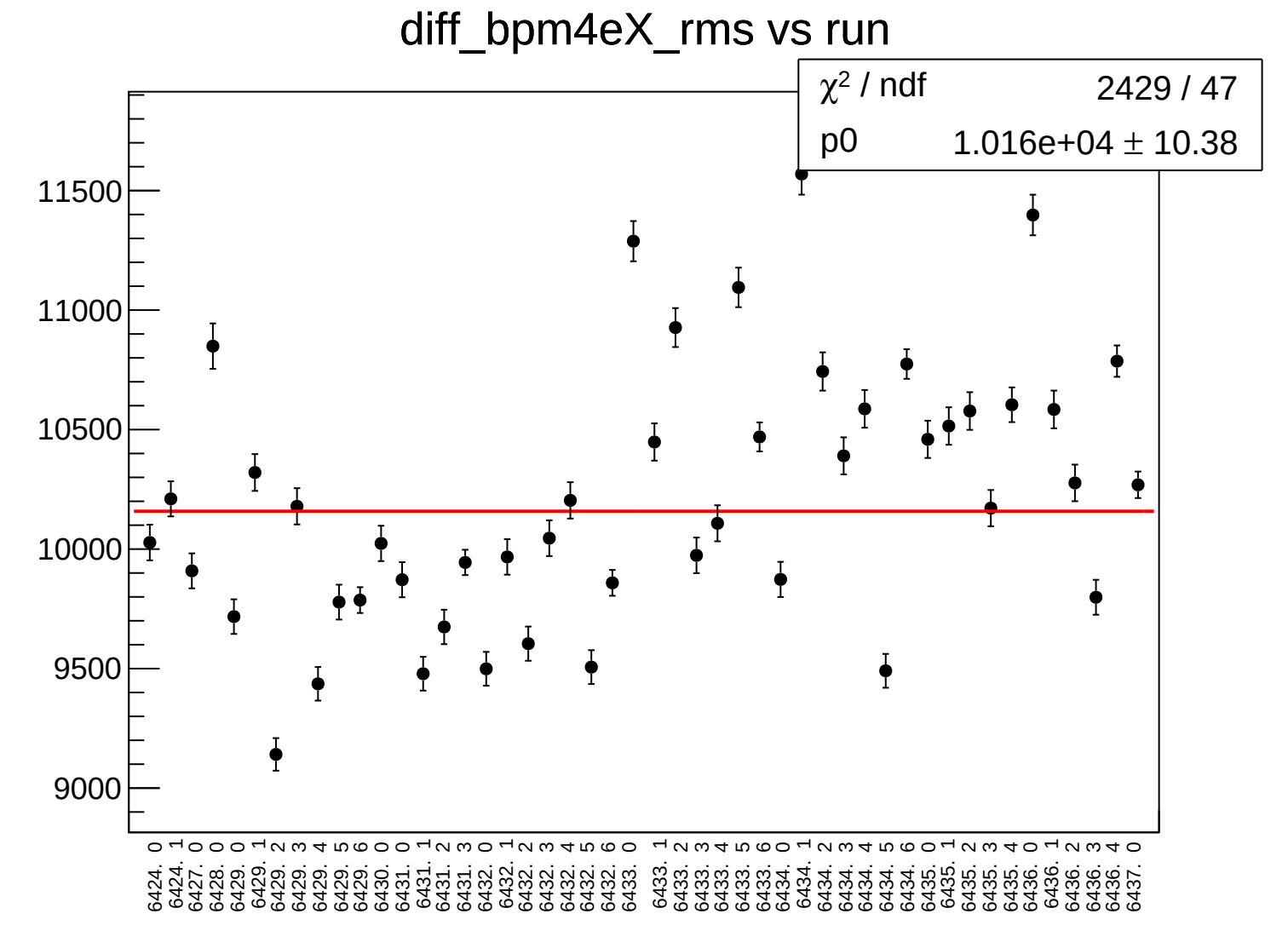

diff_bpm4aY_mean vs run
χ^2 / ndf 49.19 / 47
p0 11.16 ± 7.541
200
150
100
50
0
−50
−100
−150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 103.3
Std Dev 77.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.02051
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

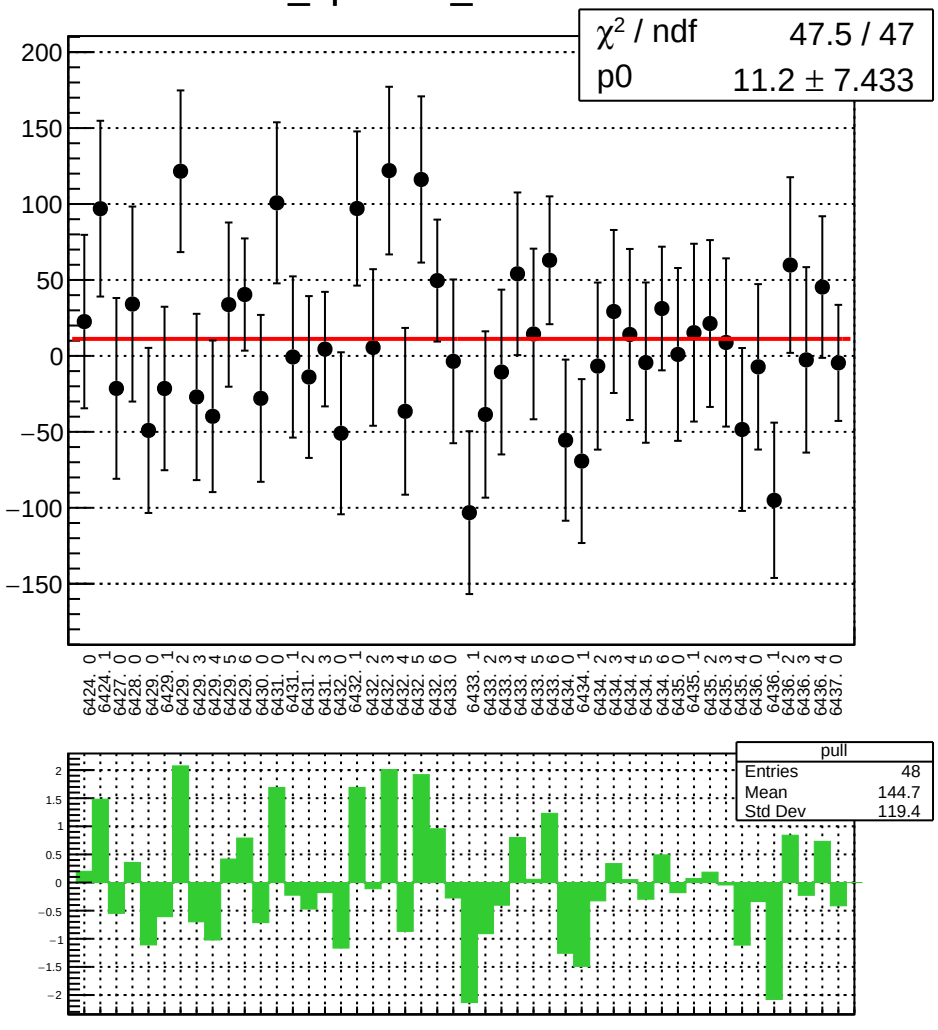

diff_bpm4aY_rms vs run
χ² / ndf 3369 / 47
p0 5217 ± 5.332
6400
6200
6000
5800
5600
5400
5200
5000
4800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

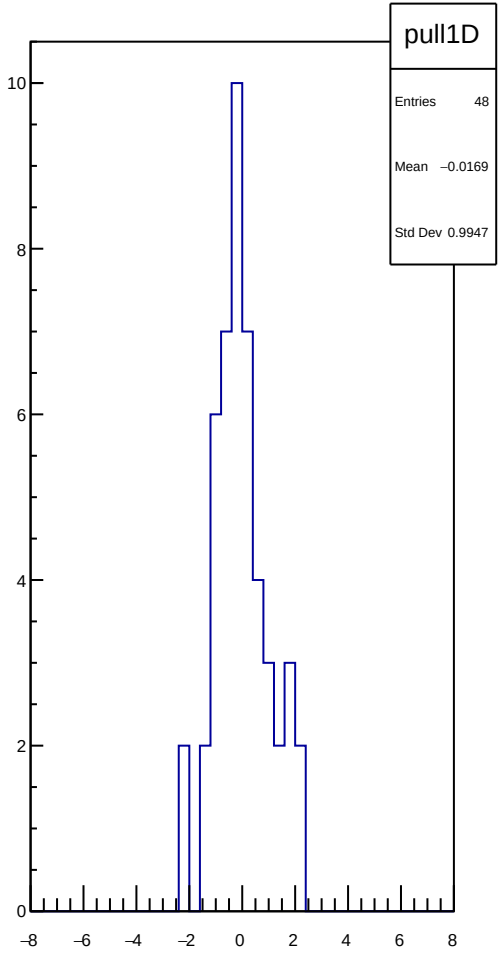

diff_bpm4eX_mean vs run
χ^2 / ndf 70.48 / 47
p0 14.65 ± 14.67
400
200
0
−200
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

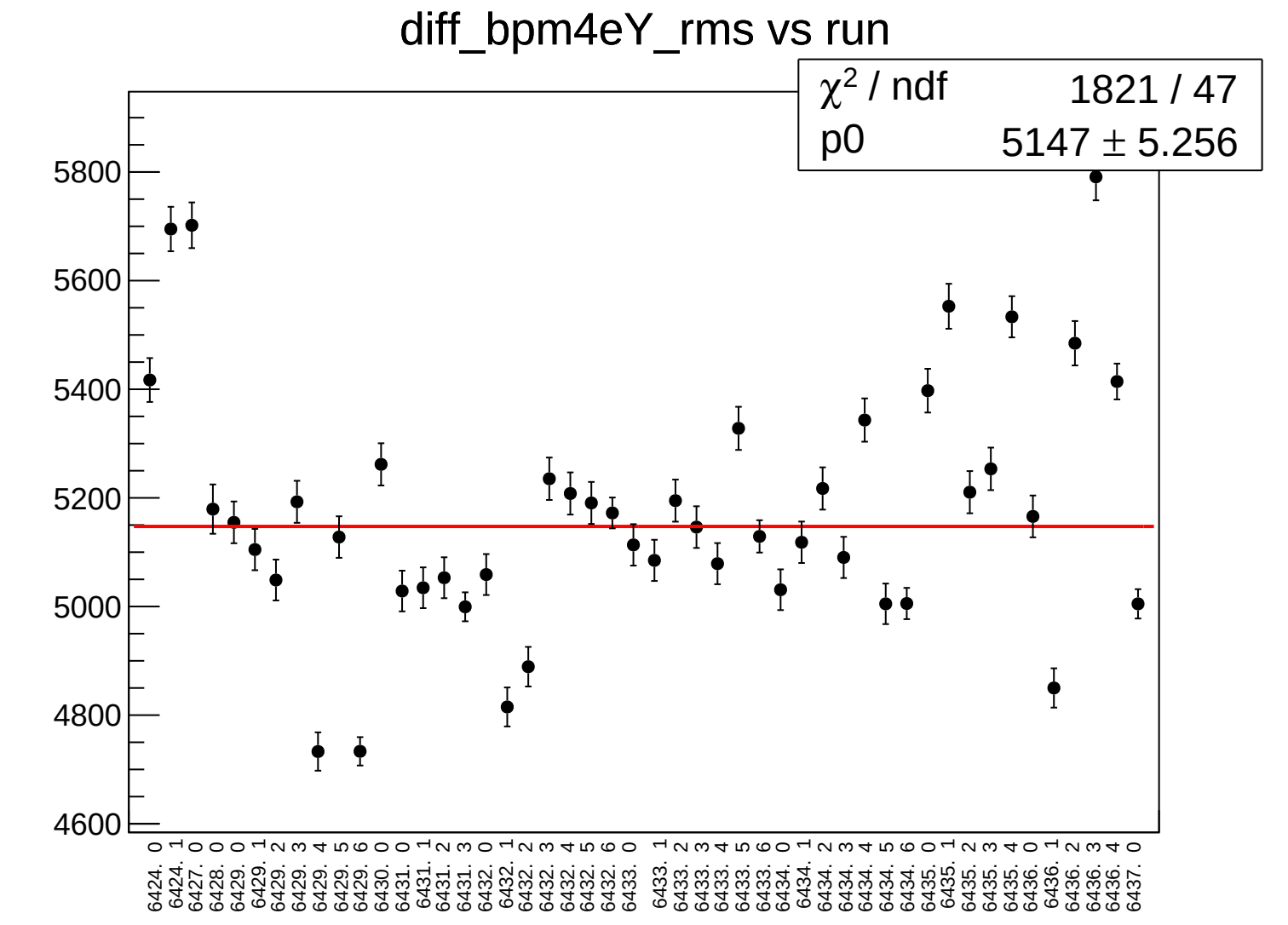

pull
Entries 48
Mean 112
Std Dev 108
3
2
1
0
−1
−2
−3

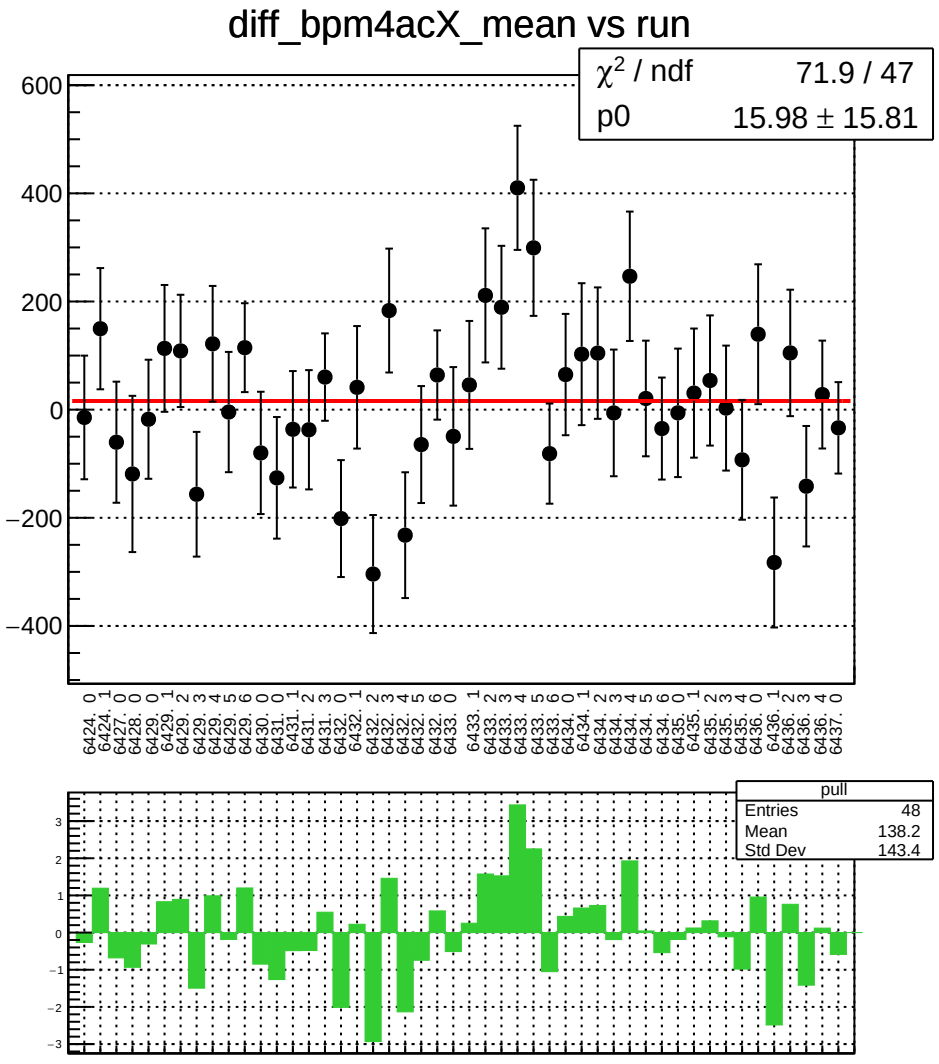

pull1D
Entries 48
Mean 0.00806
Std Dev 1.212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

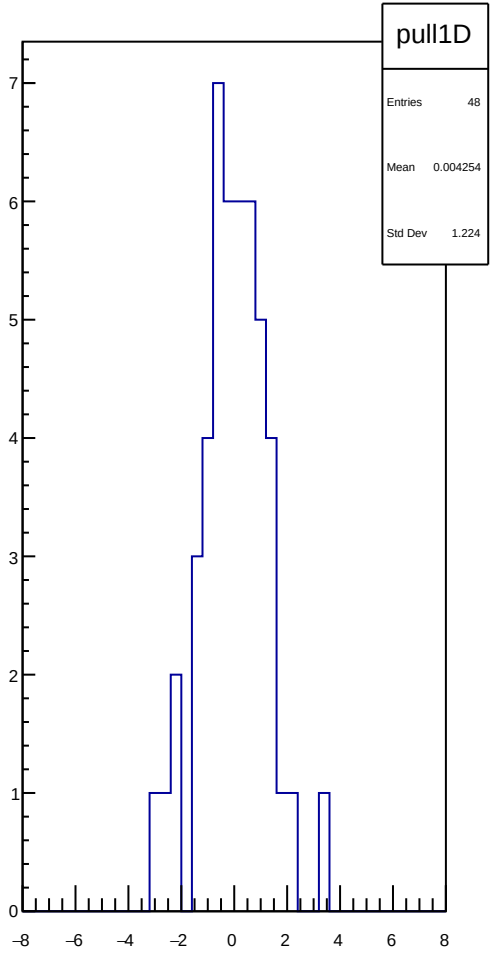

diff_bpm4eX_rms vs run
χ² / ndf 2429 / 47
p0 1.016e+04 ± 10.38
11500
11000
10500
10000
9500
9000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

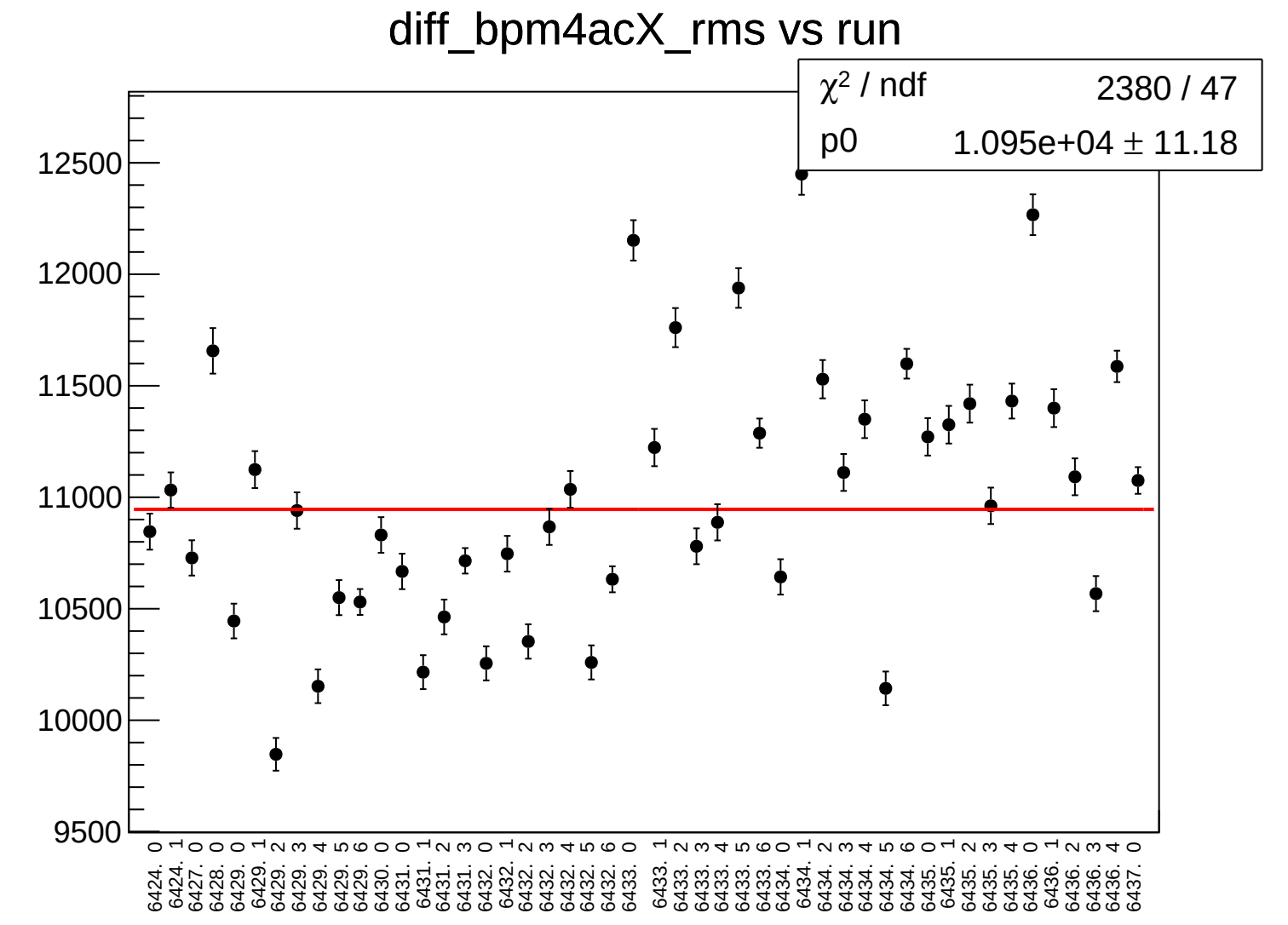

diff_bpm4eY_mean vs run
χ² / ndf 47.5 / 47
p0 11.2 ± 7.433
pull
Entries 48
Mean 144.7
Std Dev 119.4

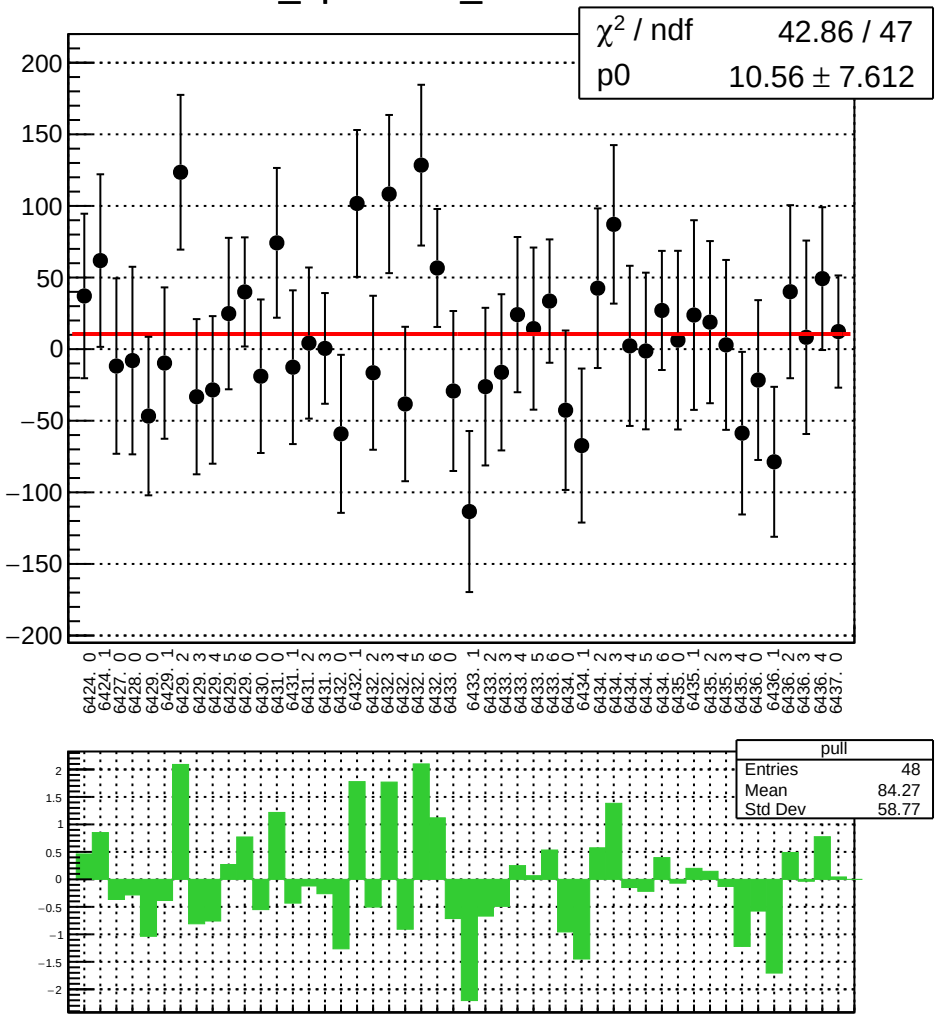

pull1D
Entries 48
Mean −0.0169
Std Dev 0.9947

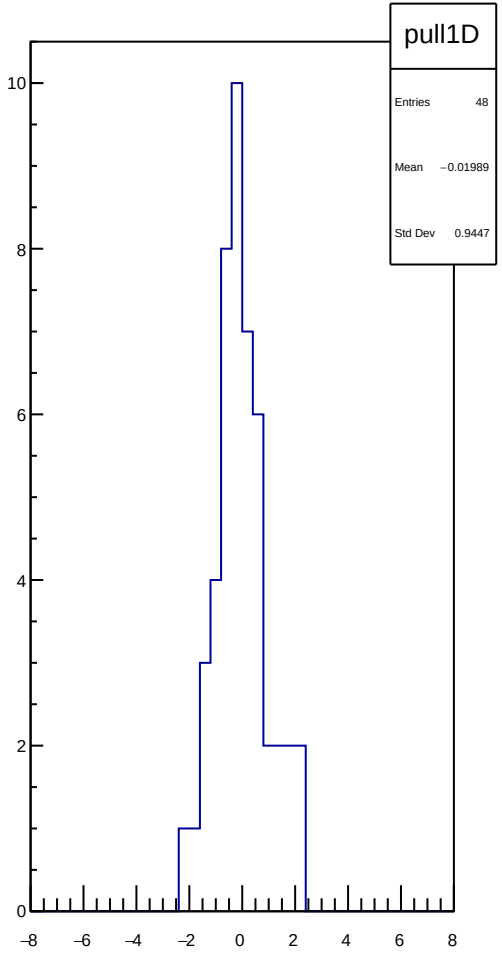

diff_bpm4eY_rms vs run
χ² / ndf 1821 / 47
p0 5147 ± 5.256
5800
5600
5400
5200
5000
4800
4600
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

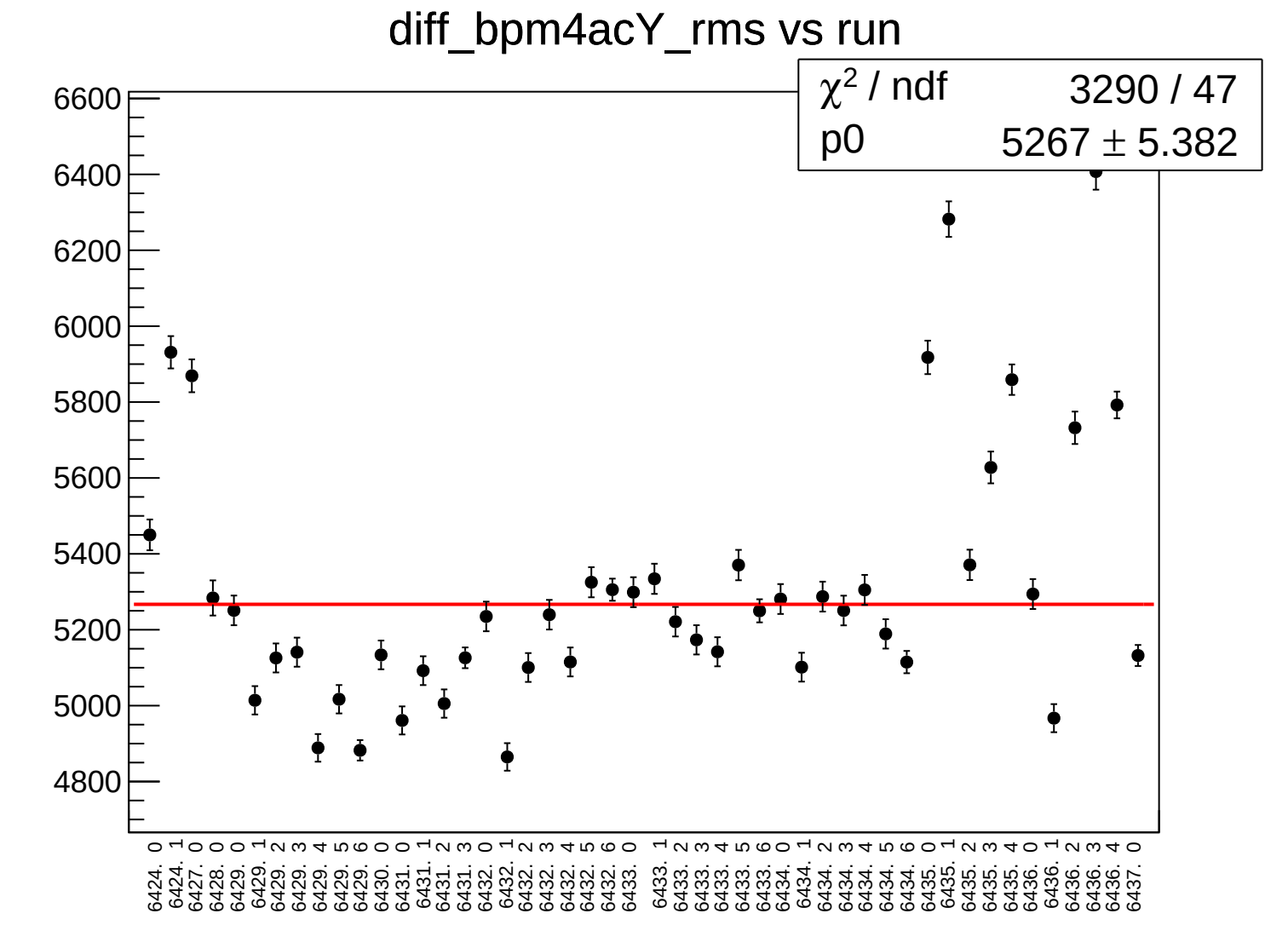

diff_bpm4acX_mean vs run
χ² / ndf 71.9 / 47
p0 15.98 ± 15.81
600
400
200
0
−200
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 138.2
Std Dev 143.4
3
2
1
0
−1
−2
−3

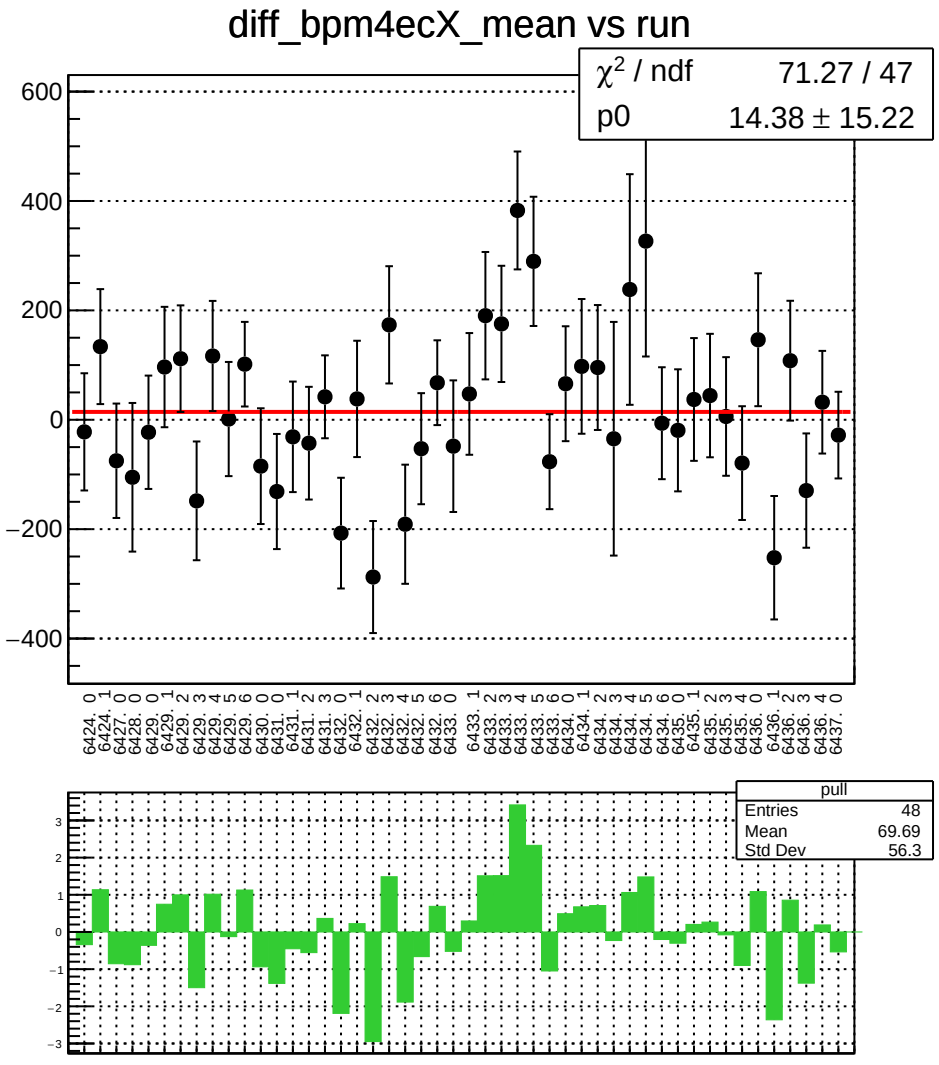

pull1D
Entries 48
Mean 0.004254
Std Dev 1.224
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

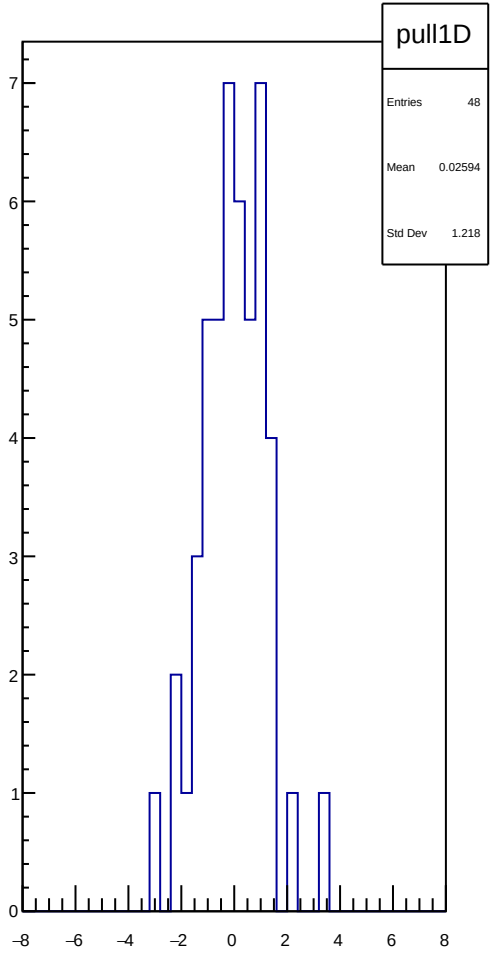

diff_bpm4acX_rms vs run
χ² / ndf 2380 / 47
p0 1.095e+04 ± 11.18
12500
12000
11500
11000
10500
10000
9500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

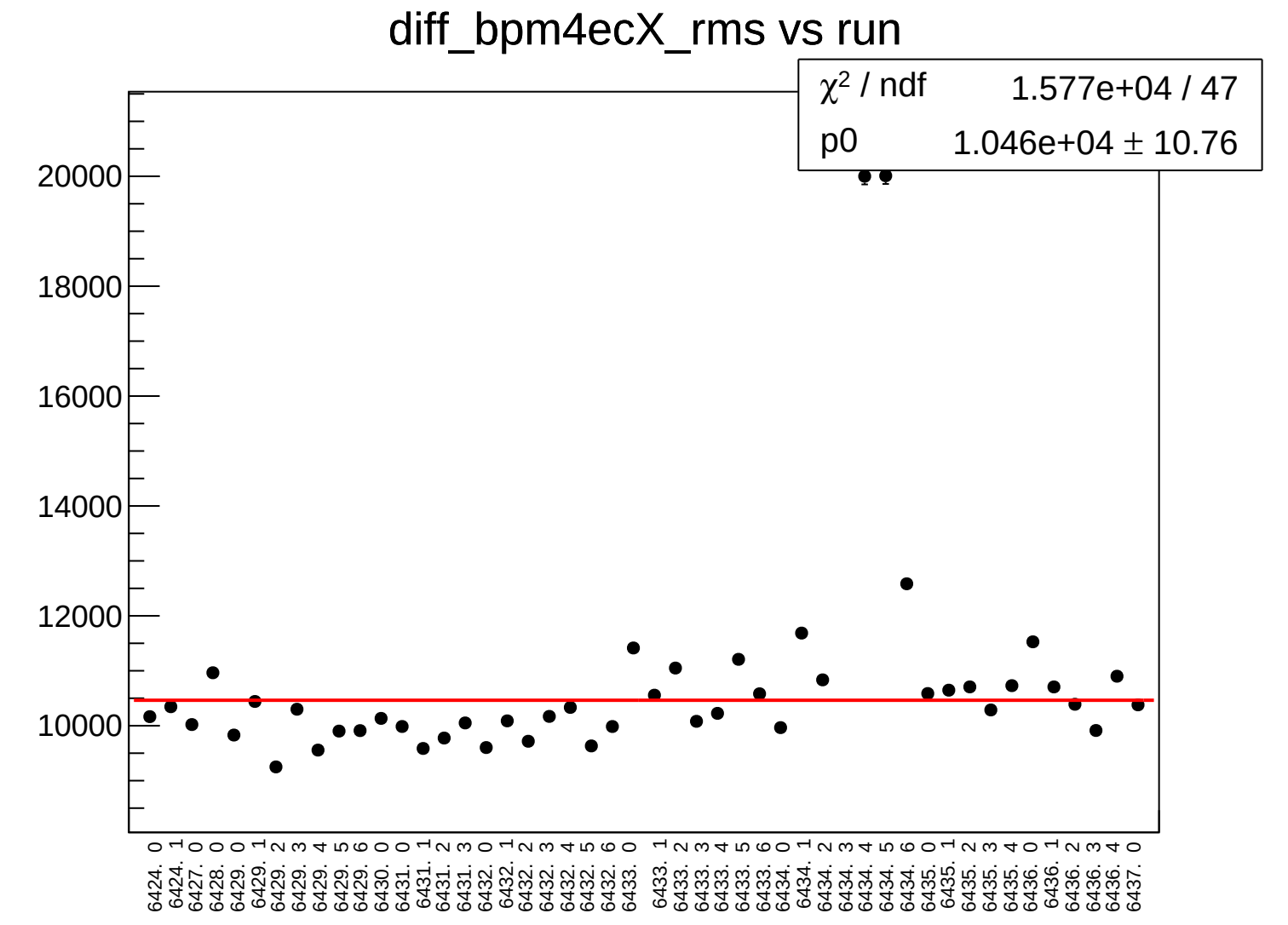

diff_bpm4acY_mean vs run
χ² / ndf 42.86 / 47
p0 10.56 ± 7.612
pull
Entries 48
Mean 84.27
Std Dev 58.77

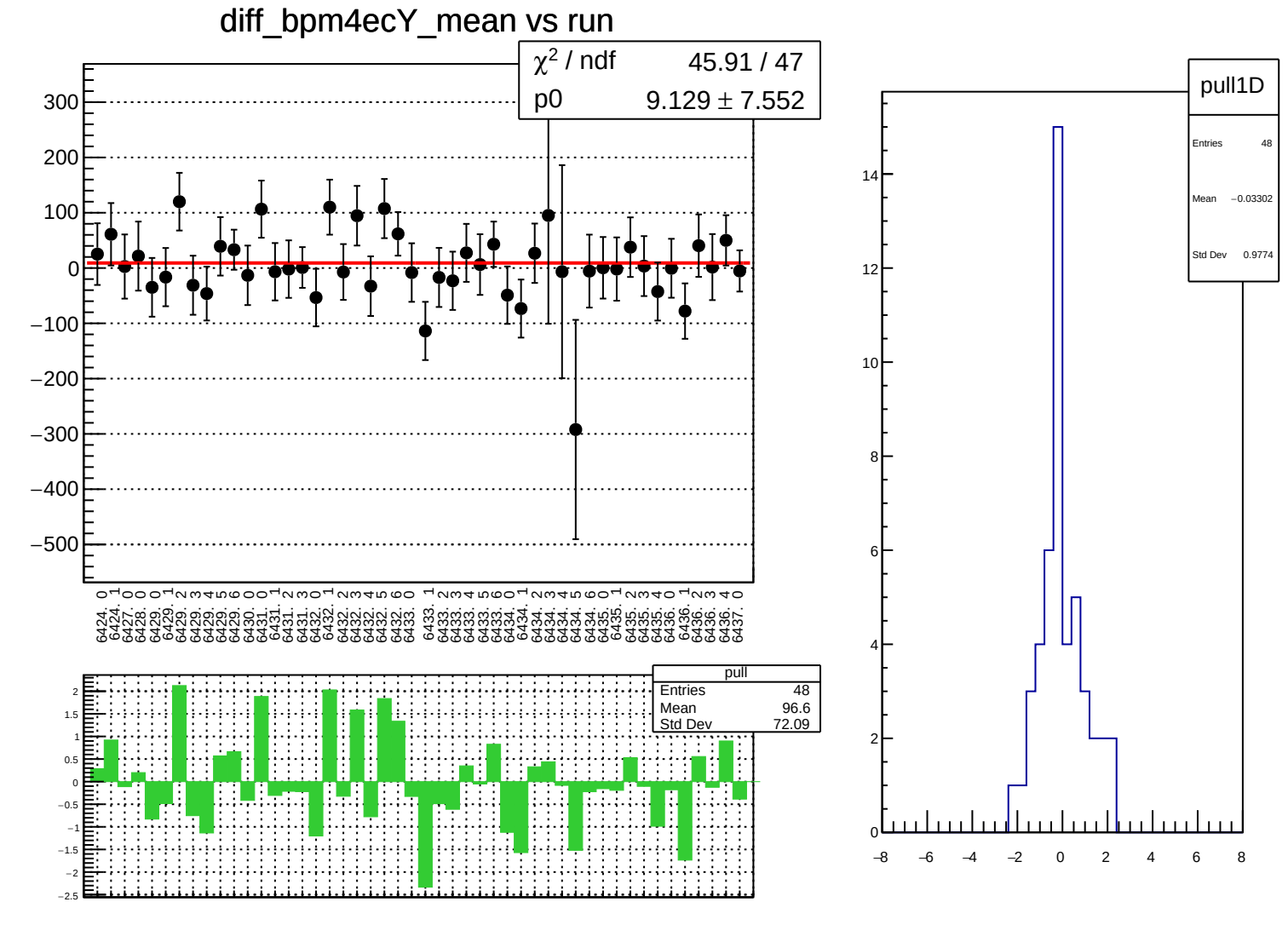

pull1D
Entries 48
Mean −0.01989
Std Dev 0.9447

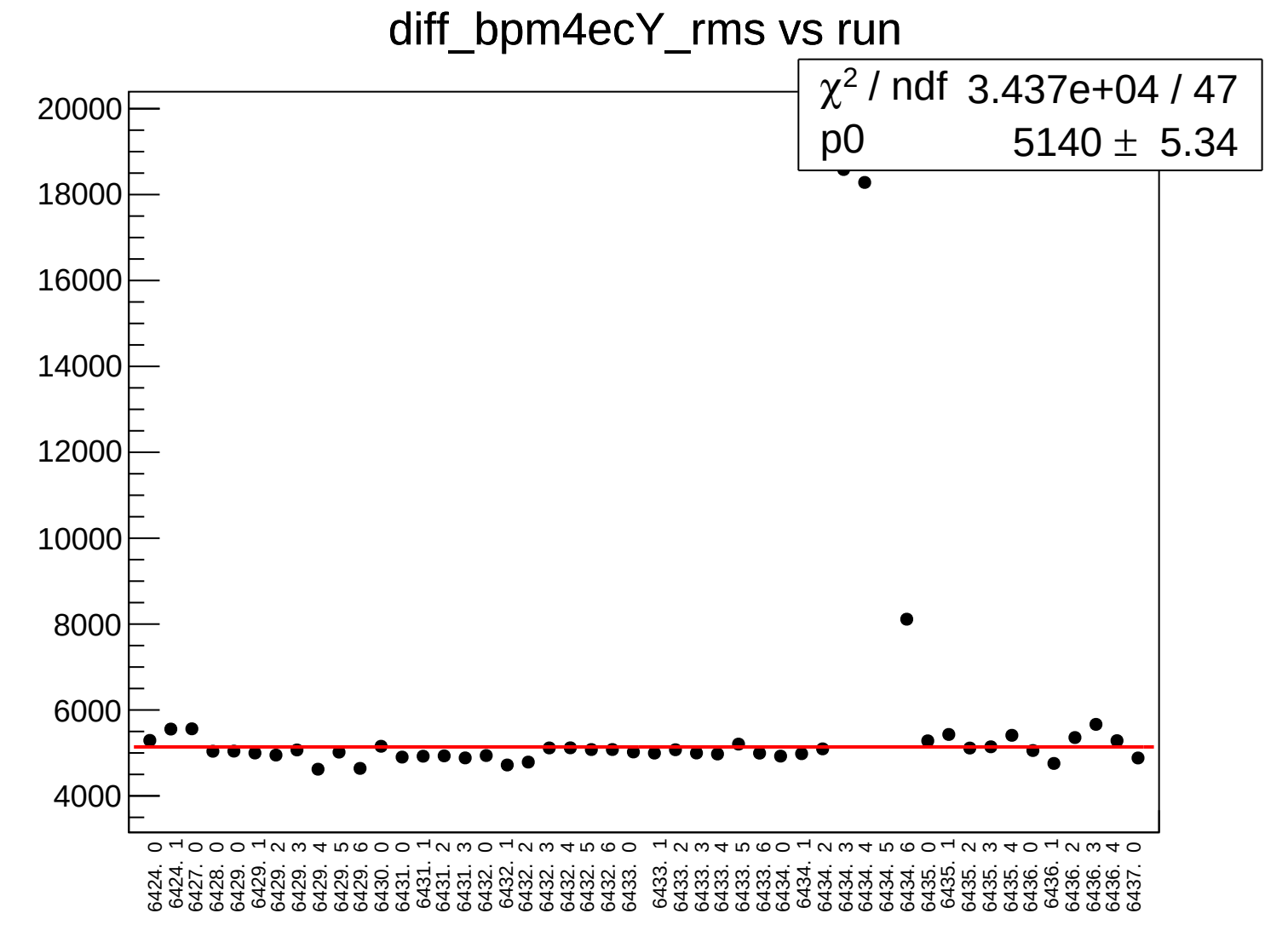

diff_bpm4acY_rms vs run
χ² / ndf 3290 / 47
p0 5267 ± 5.382
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

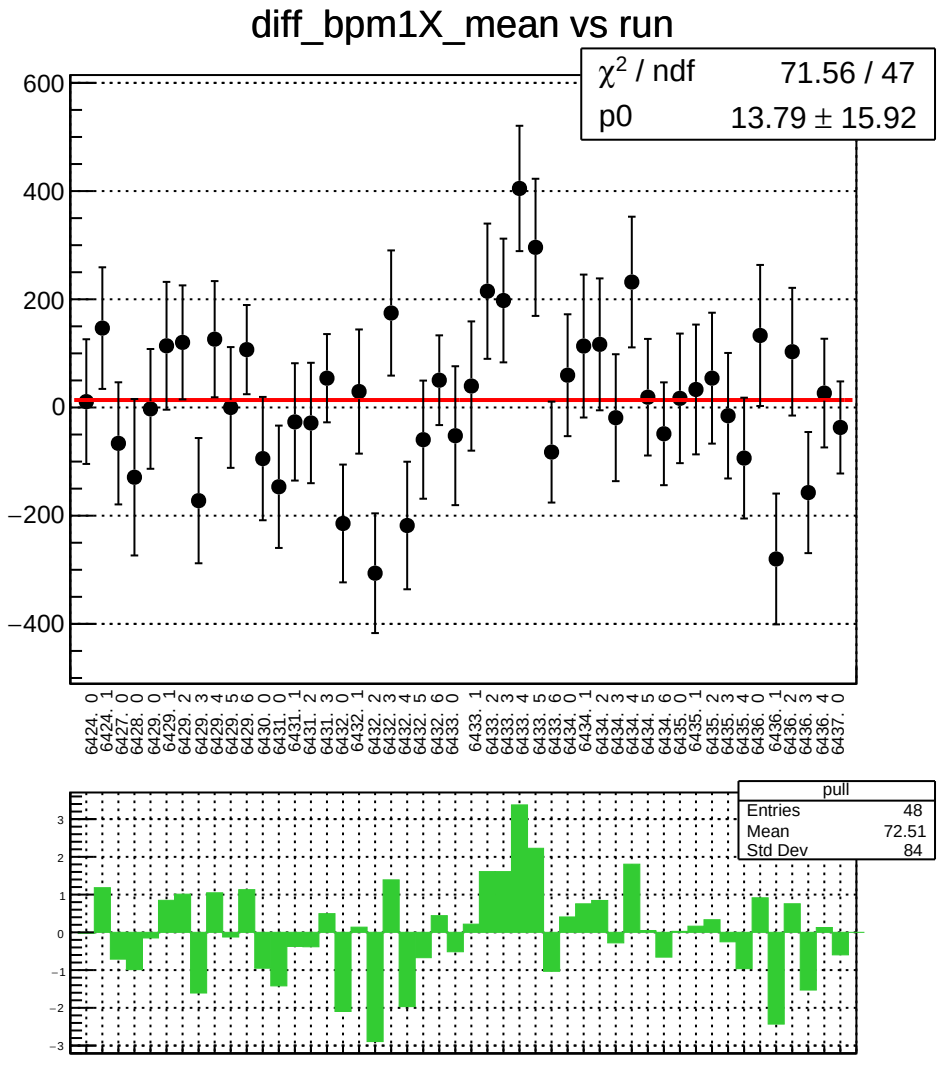

diff_bpm4ecX_mean vs run
χ² / ndf 71.27 / 47
p0 14.38 ± 15.22
600
400
200
0
−200
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 69.69
Std Dev 56.3
3
2
1
0
−1
−2
−3

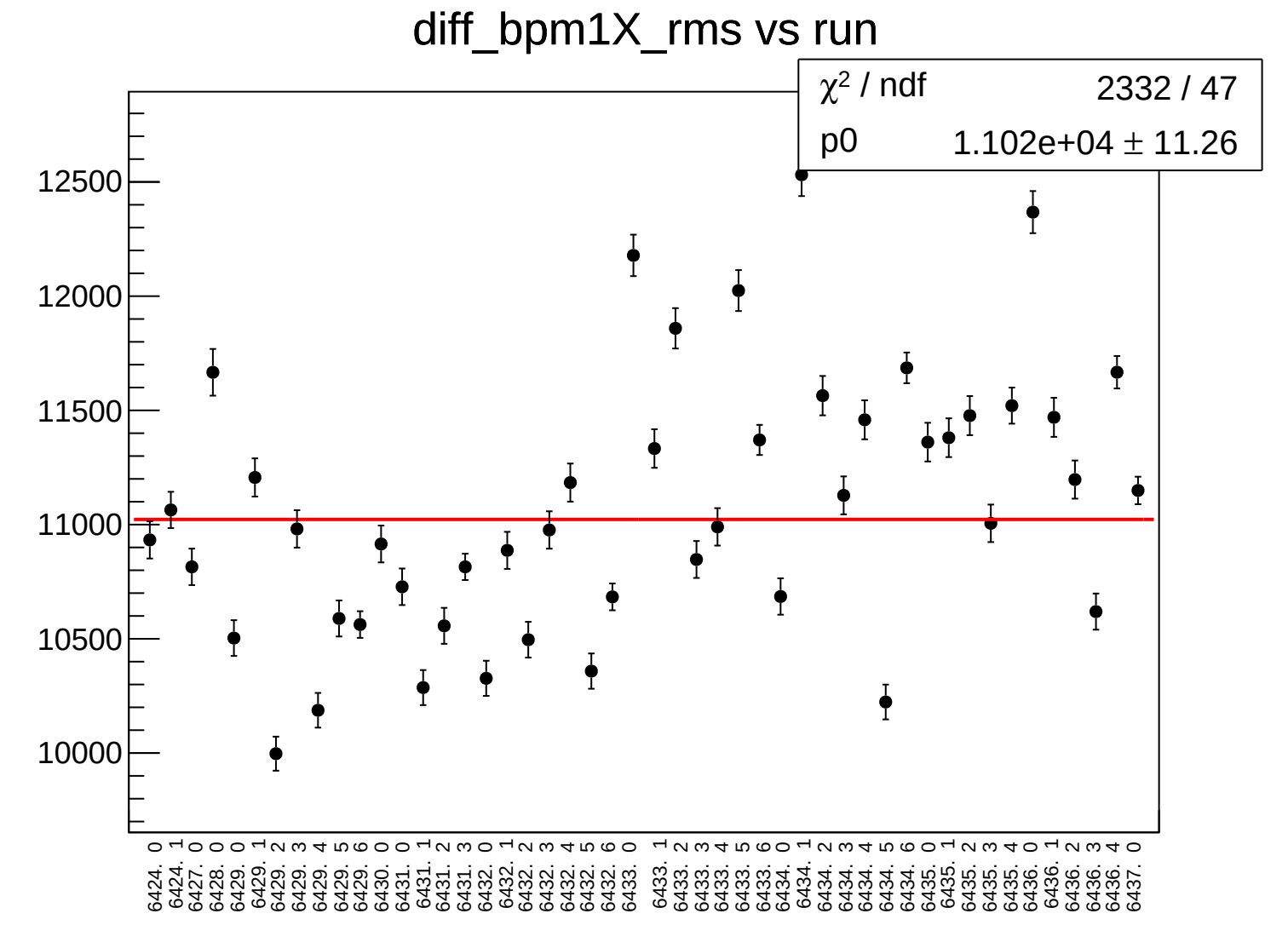

pull1D
Entries 48
Mean 0.02594
Std Dev 1.218
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

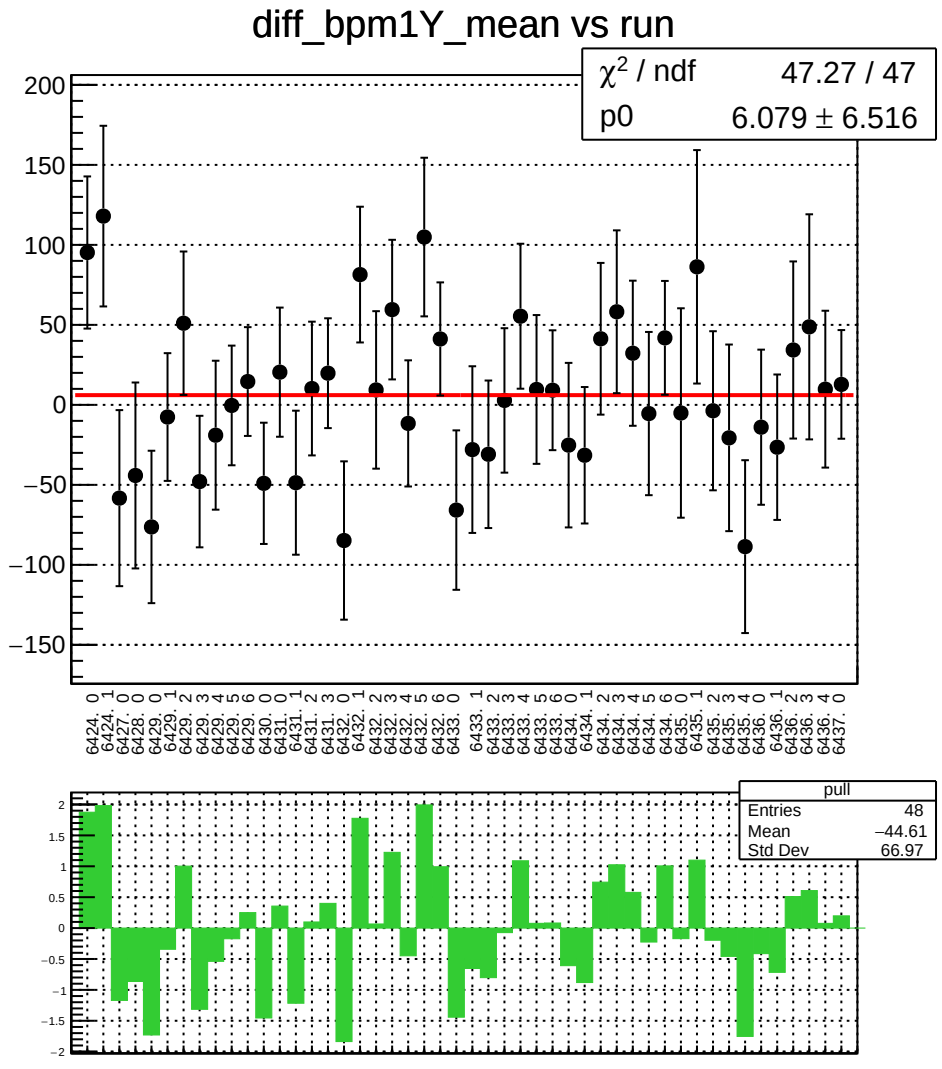

diff_bpm4ecX_rms vs run
χ² / ndf 1.577e+04 / 47
p0 1.046e+04 ± 10.76
20000
18000
16000
14000
12000
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

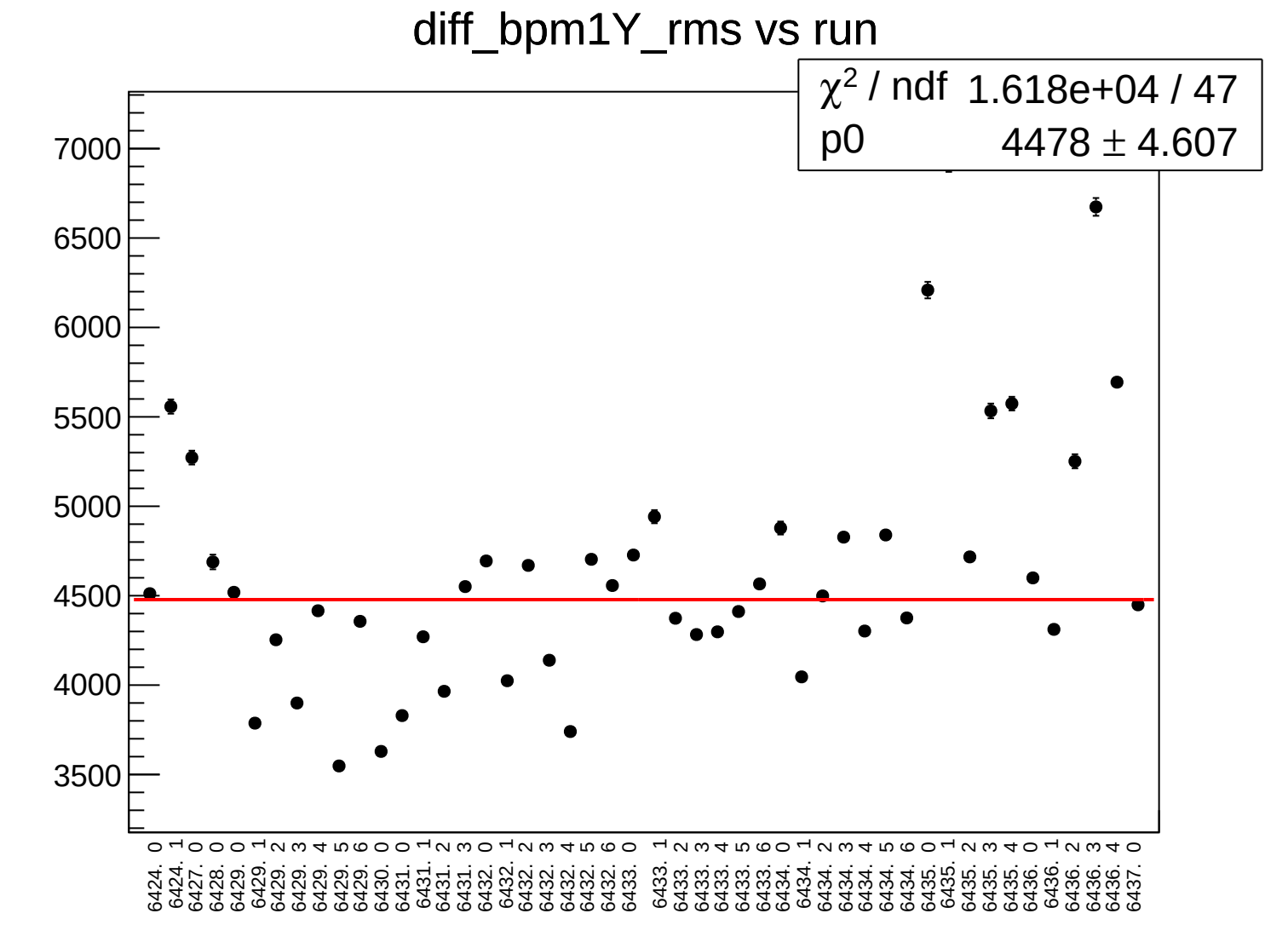

diff_bpm4ecY_mean vs run
χ² / ndf 45.91 / 47
p0 9.129 ± 7.552
pull
Entries 48
Mean 96.6
Std Dev 72.09
pull1D
Entries 48
Mean −0.03302
Std Dev 0.9774

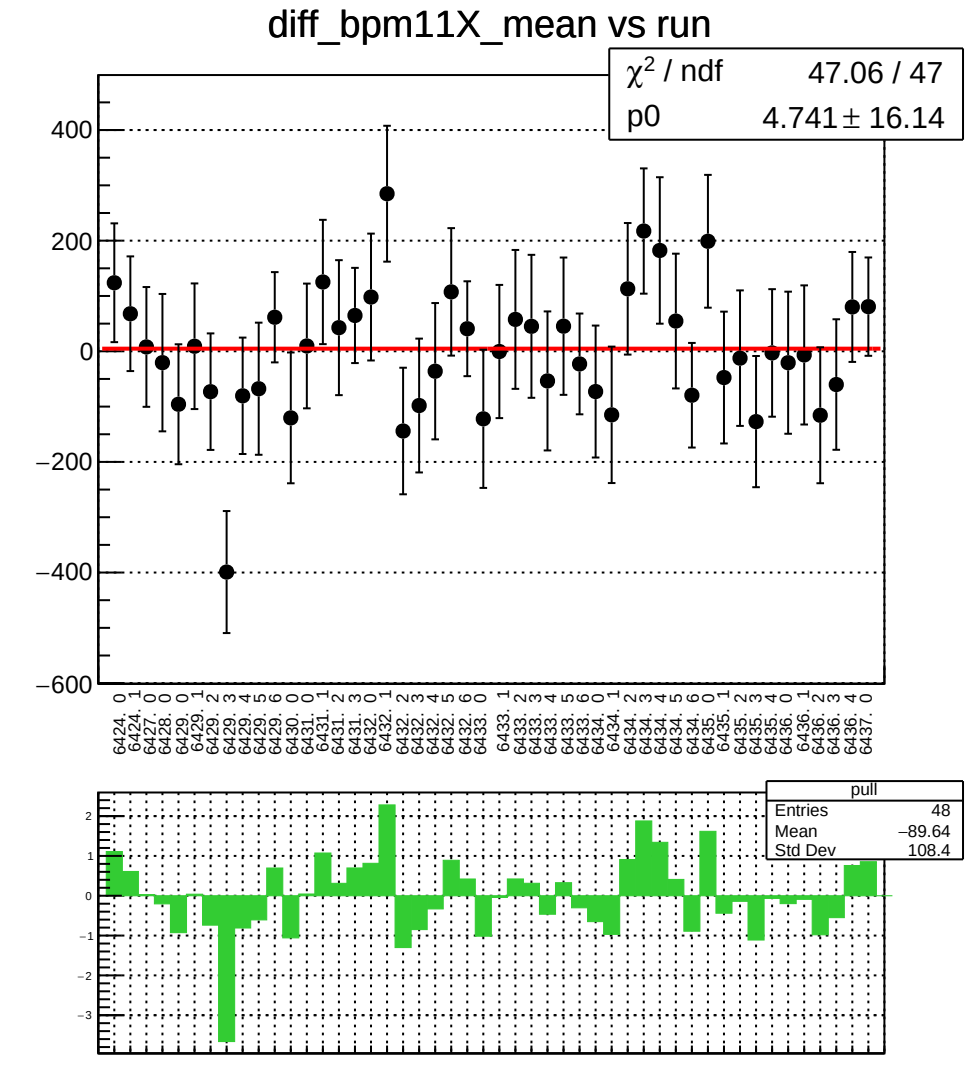

diff_bpm4ecY_rms vs run
χ² / ndf 3.437e+04 / 47
p0 5140 ± 5.34
20000
18000
16000
14000
12000
10000
8000
6000
4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

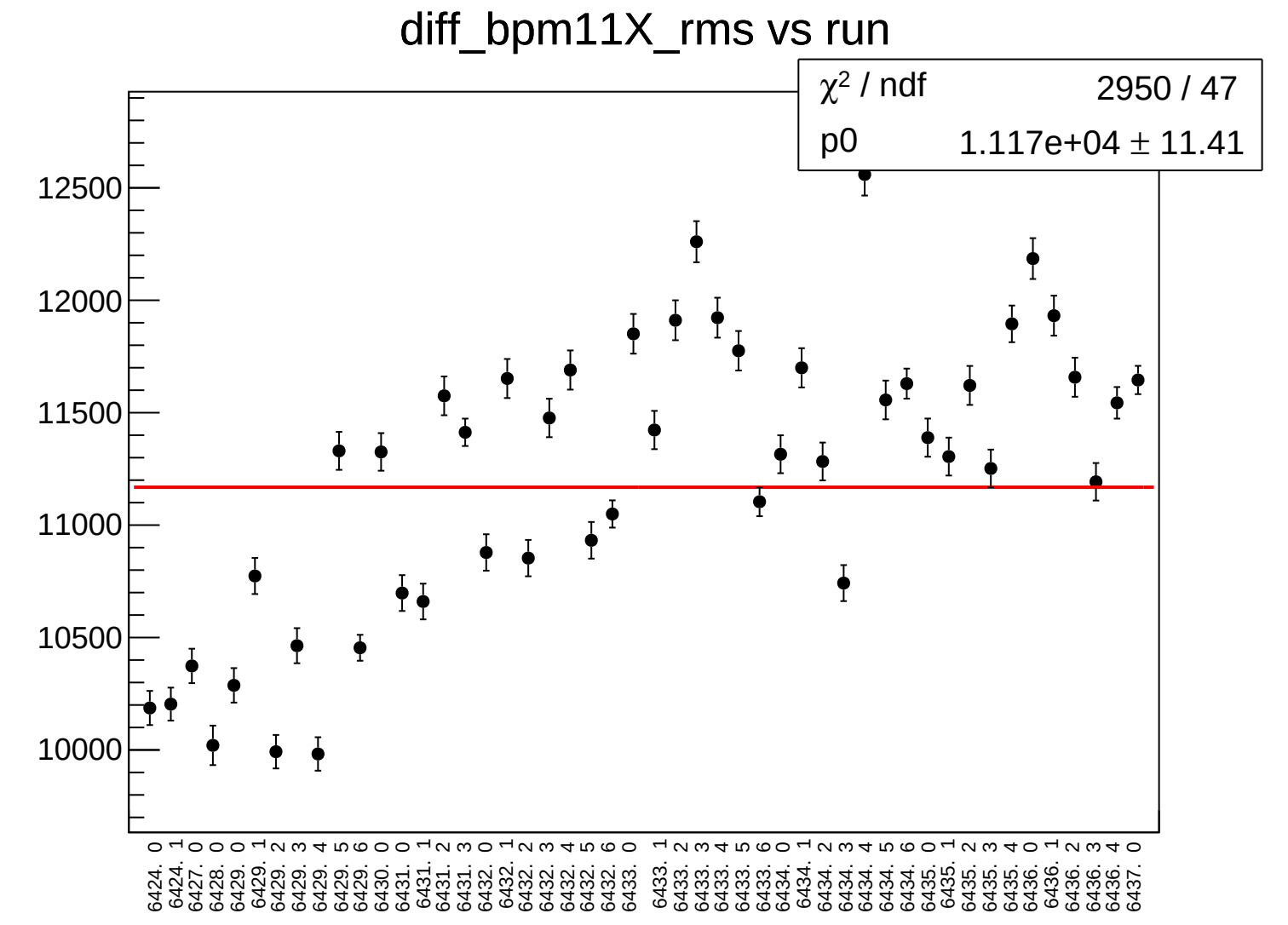

diff_bpm1X_mean vs run
χ^2 / ndf 71.56 / 47
p0 13.79 ± 15.92
600
400
200
0
−200
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 72.51
Std Dev 84
3
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.006355
Std Dev 1.221
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

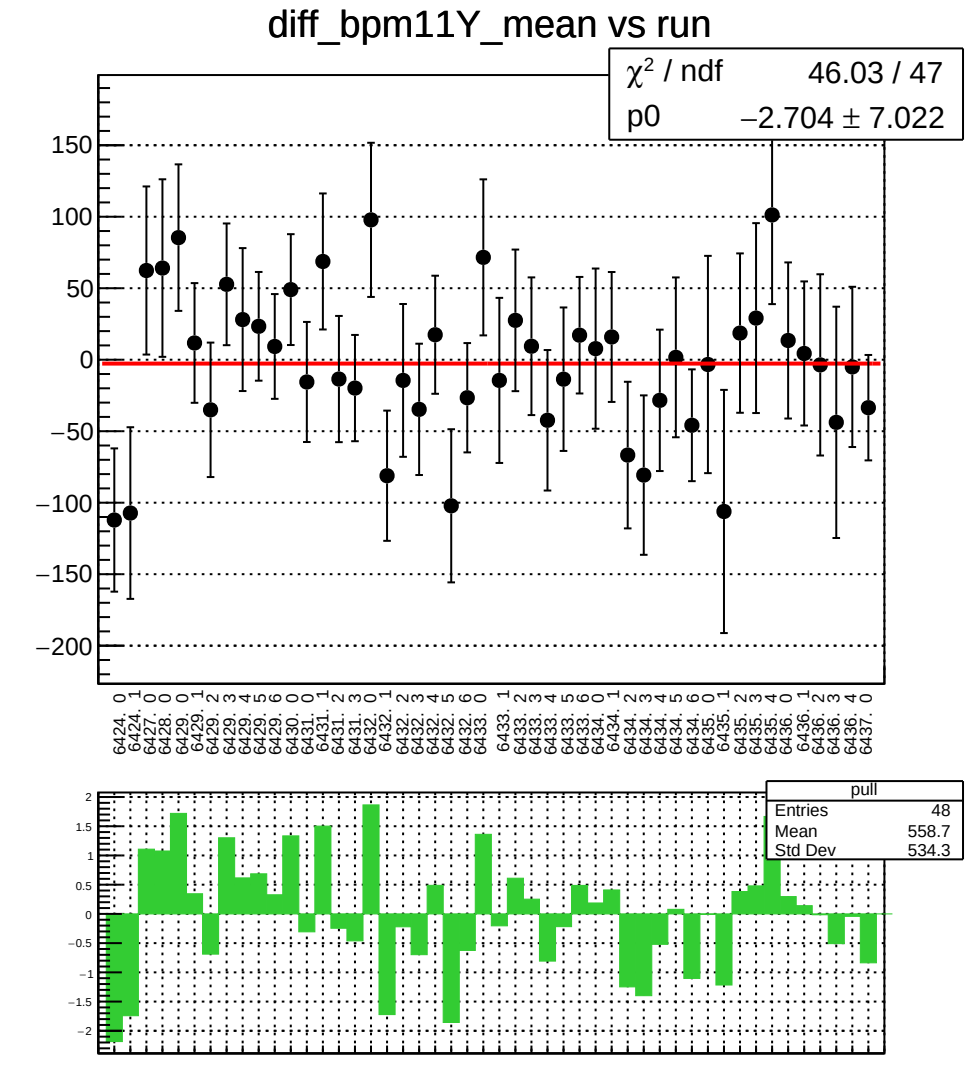

diff_bpm1X_rms vs run
χ² / ndf 2332 / 47
p0 1.102e+04 ± 11.26
12500
12000
11500
11000
10500
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

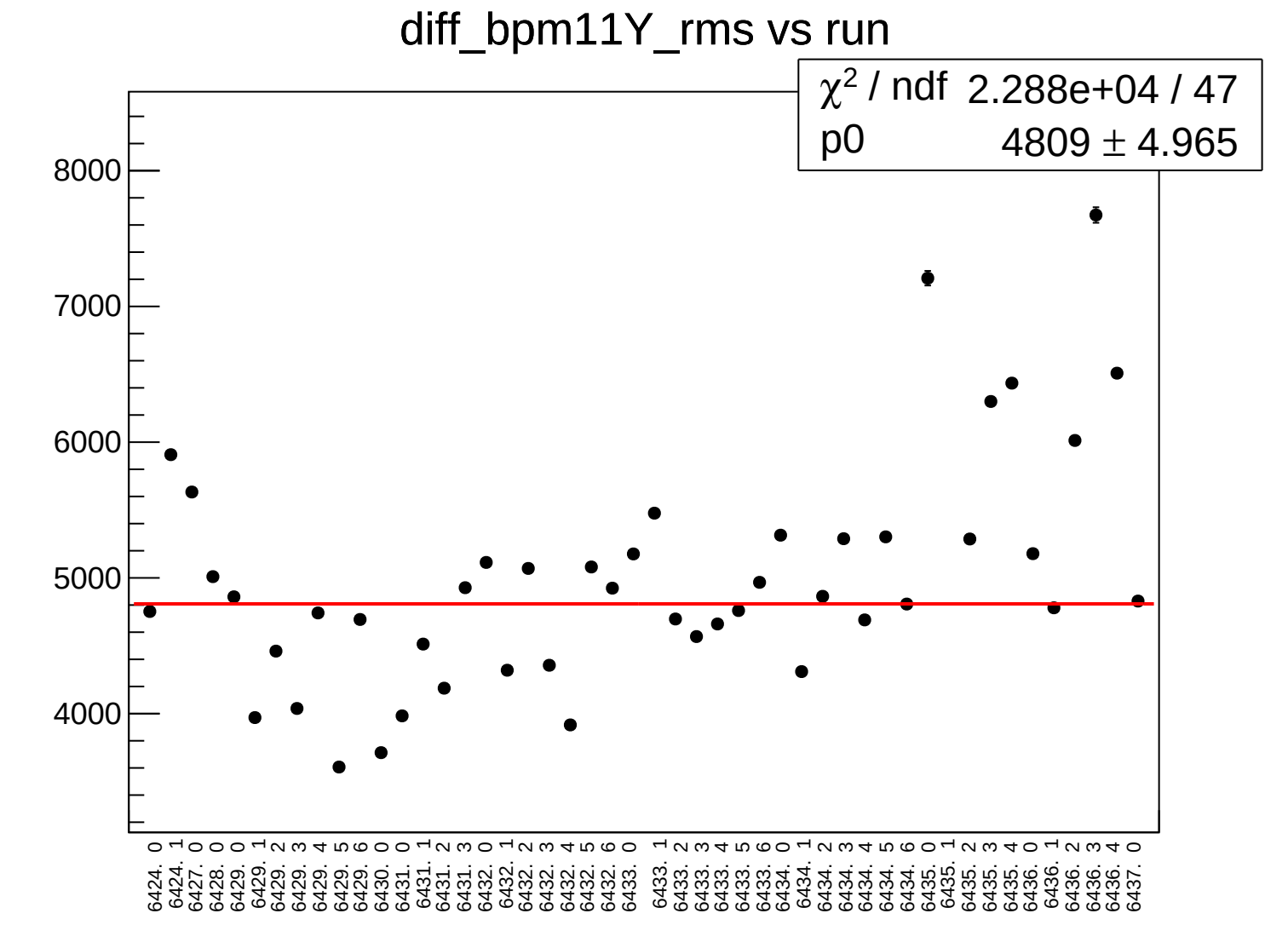

diff_bpm1Y_mean vs run
χ² / ndf 47.27 / 47
p0 6.079 ± 6.516
200
150
100
50
0
−50
−100
−150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −44.61
Std Dev 66.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.007777
Std Dev 0.9924
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

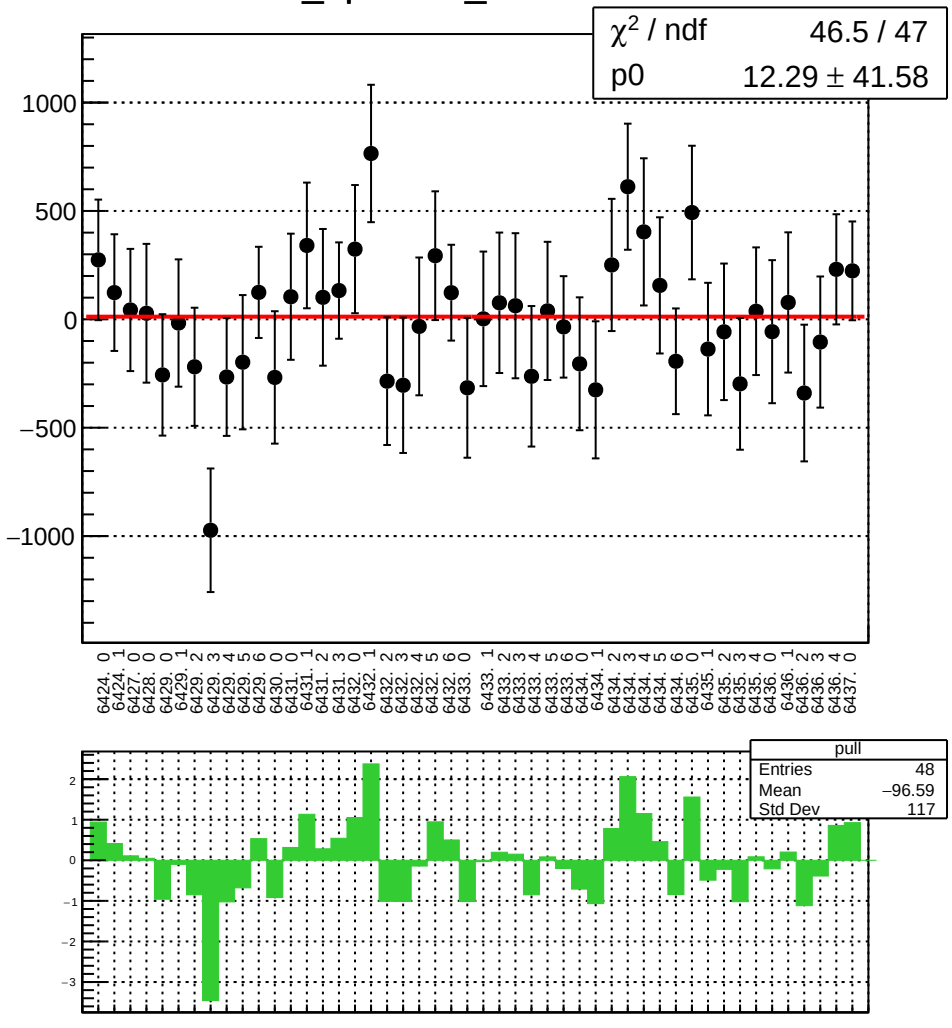

diff_bpm1Y_rms vs run
χ² / ndf 1.618e+04 / 47
p0 4478 ± 4.607
7000
6500
6000
5500
5000
4500
4000
3500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

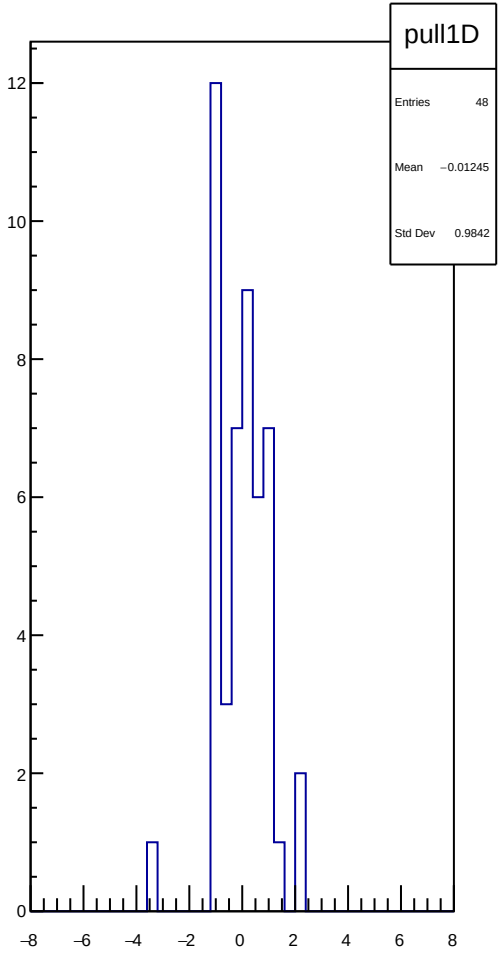

diff_bpm11X_mean vs run
χ² / ndf 47.06 / 47
p0 4.741 ± 16.14
400
200
0
−200
−400
−600
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −89.64
Std Dev 108.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.01151
Std Dev 0.9901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

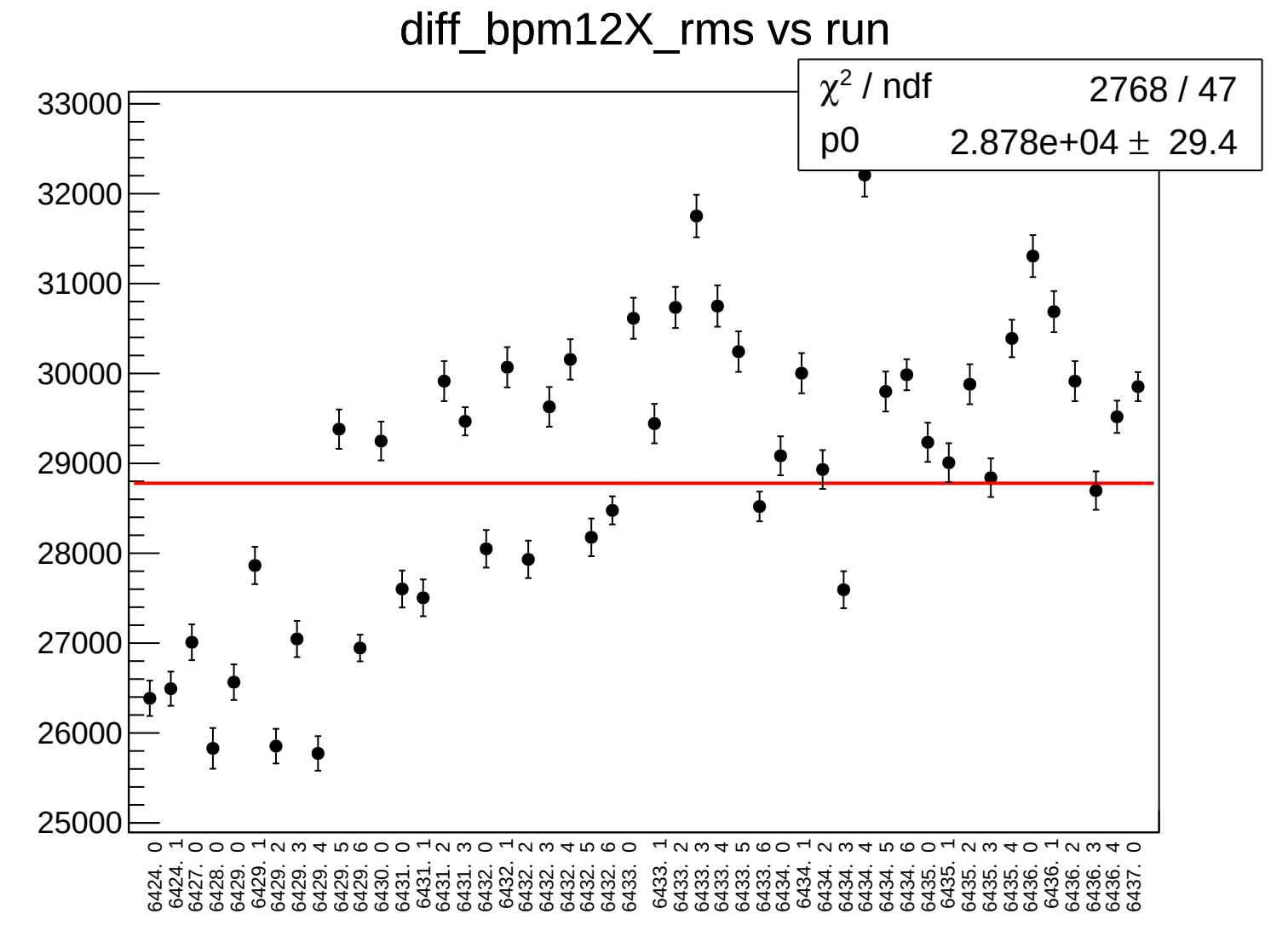

diff_bpm11X_rms vs run
χ² / ndf 2950 / 47
p0 1.117e+04 ± 11.41
12500
12000
11500
11000
10500
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

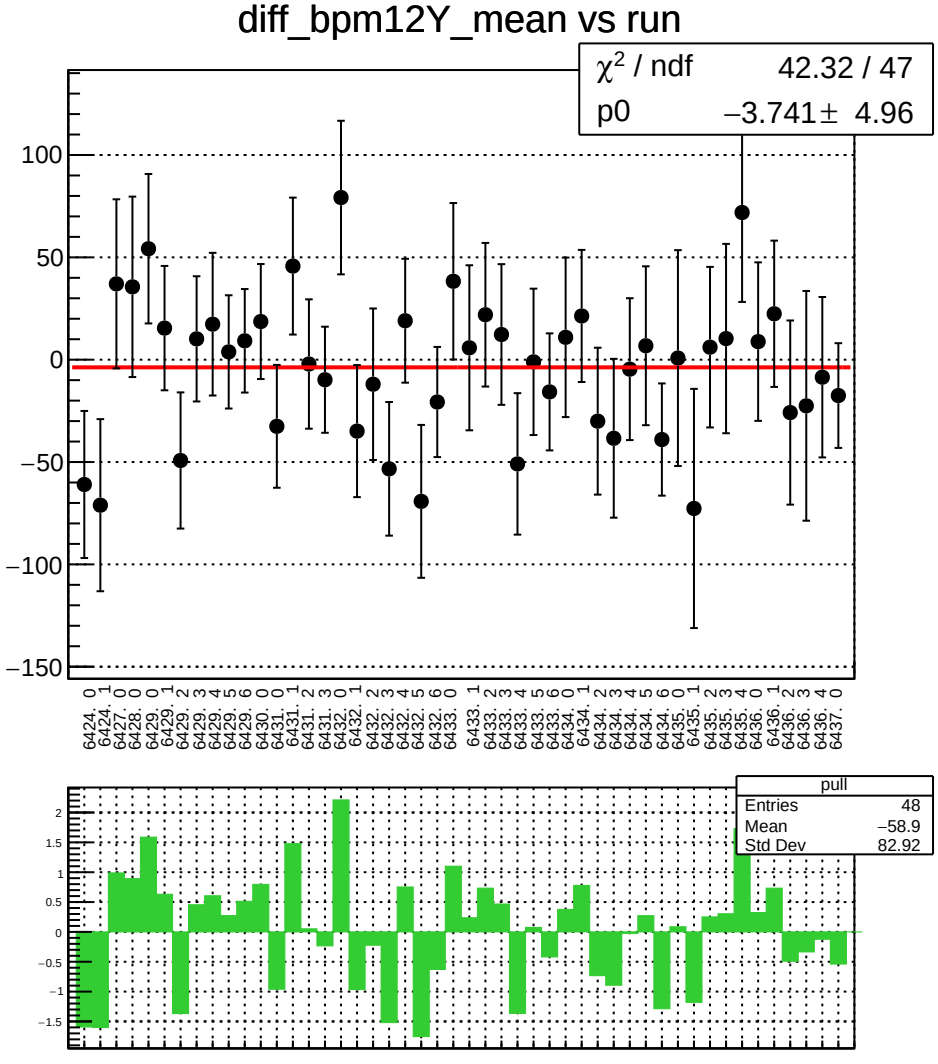

diff_bpm11Y_mean vs run
χ² / ndf 46.03 / 47
p0 −2.704 ± 7.022
150
100
50
0
−50
−100
−150
−200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 558.7
Std Dev 534.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.003216
Std Dev 0.9792
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

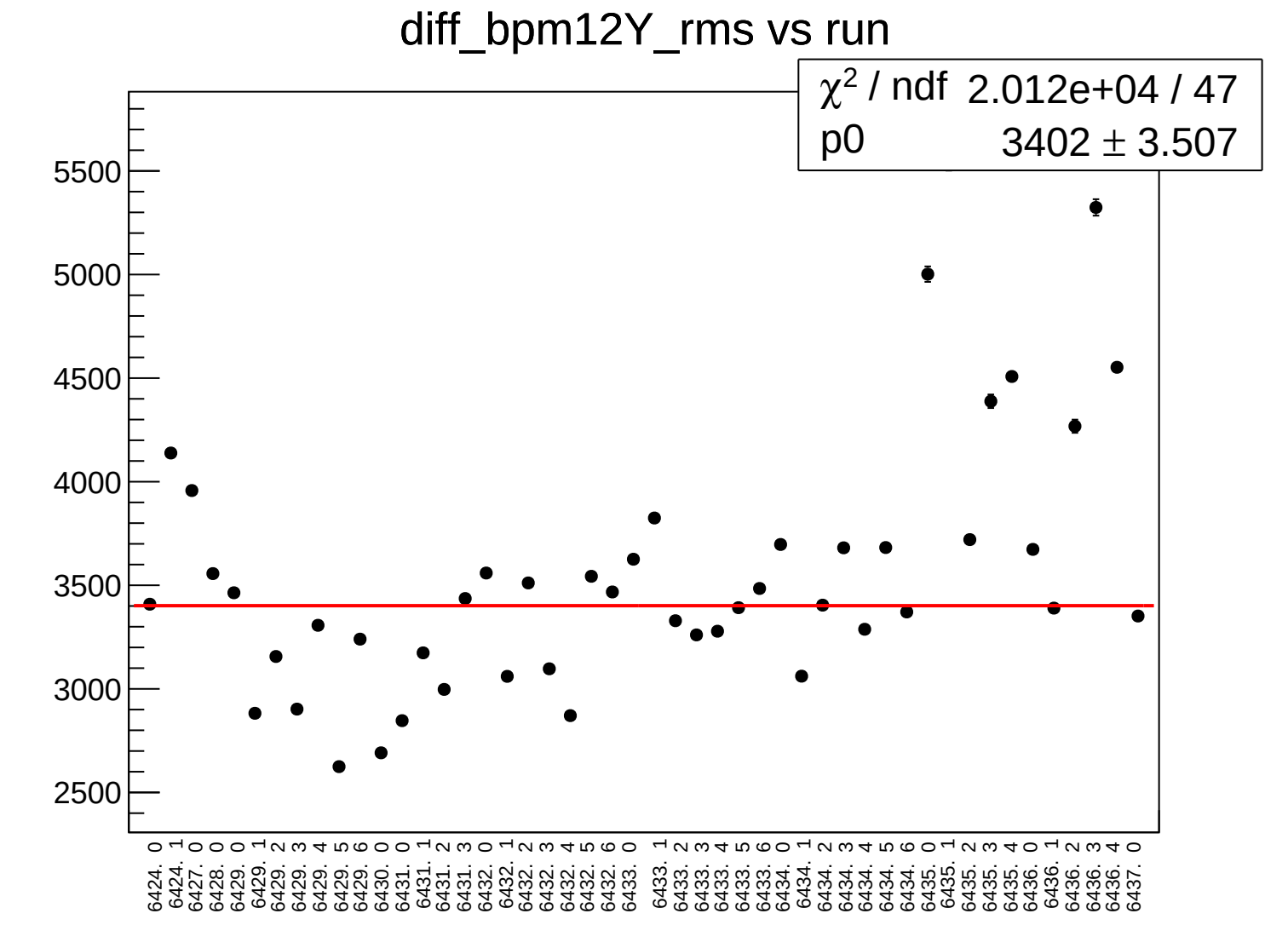

diff_bpm11Y_rms vs run
χ² / ndf 2.288e+04 / 47
p0 4809 ± 4.965
8000
7000
6000
5000
4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

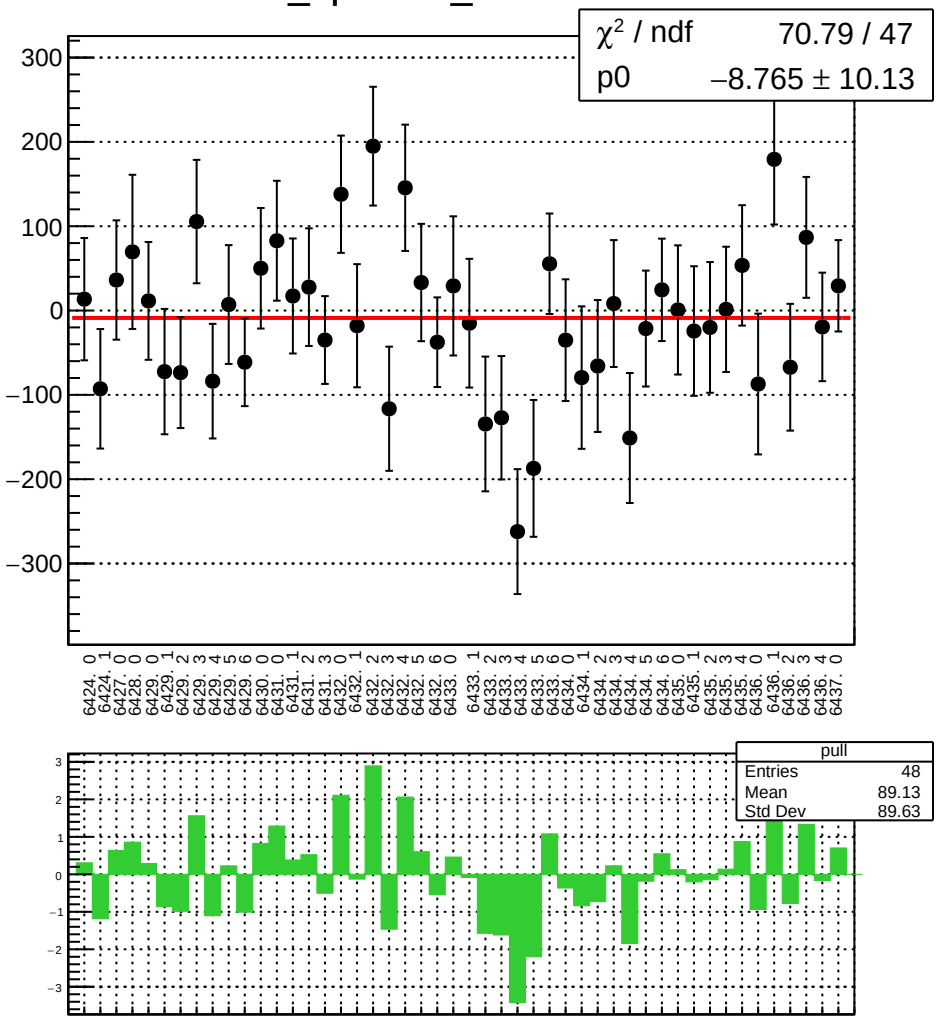

diff_bpm12X_mean vs run
χ^2 / ndf 46.5 / 47
p0 12.29 ± 41.58
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −96.59
Std Dev 117
2
1
0
−1
−2
−3

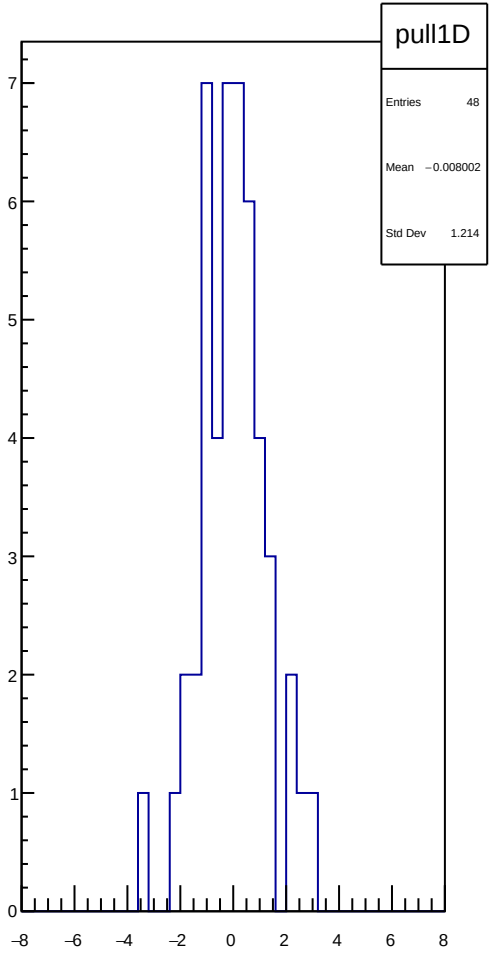

pull1D
Entries 48
Mean −0.01245
Std Dev 0.9842
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

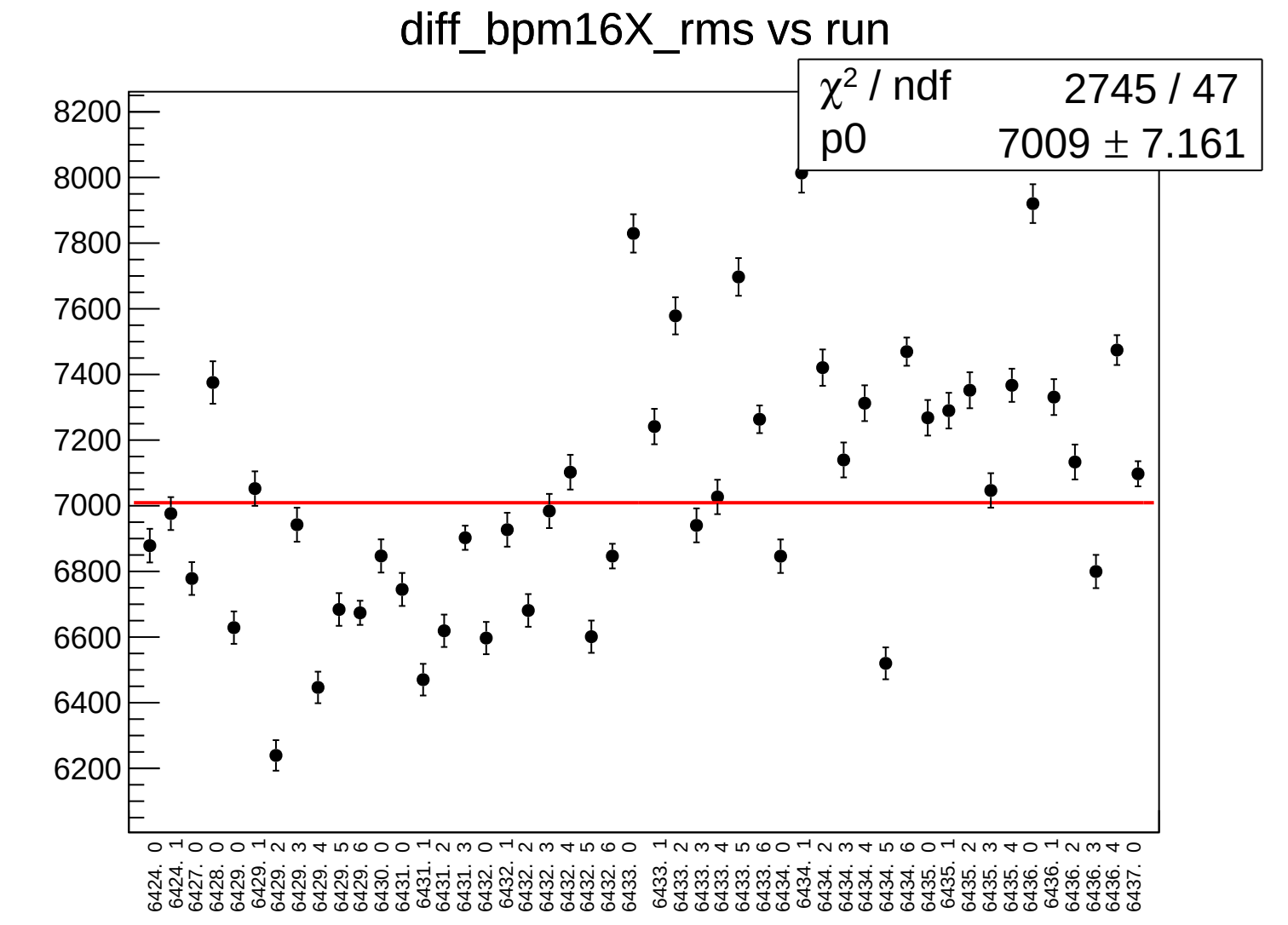

diff_bpm12X_rms vs run
χ² / ndf 2768 / 47
p0 2.878e+04 ± 29.4
33000
32000
31000
30000
29000
28000
27000
26000
25000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

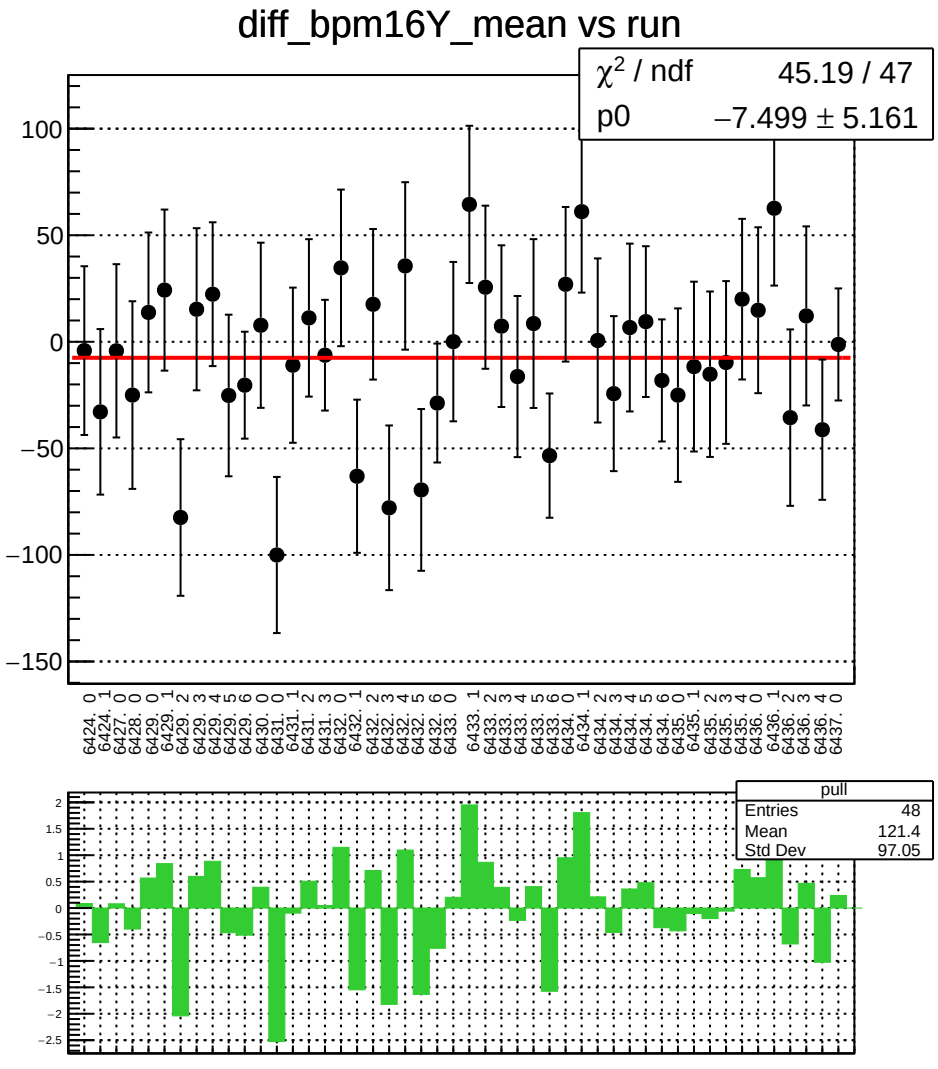

diff_bpm12Y_mean vs run
χ² / ndf 42.32 / 47
p0 −3.741± 4.96
100
50
0
−50
−100
−150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −58.9
Std Dev 82.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.00973
Std Dev 0.9389
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

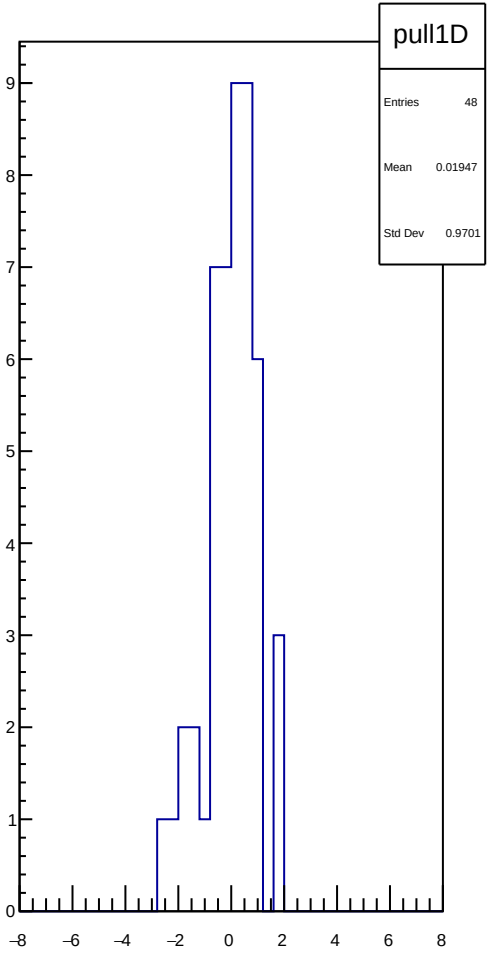

diff_bpm12Y_rms vs run
χ² / ndf 2.012e+04 / 47
p0 3402 ± 3.507
5500
5000
4500
4000
3500
3000
2500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

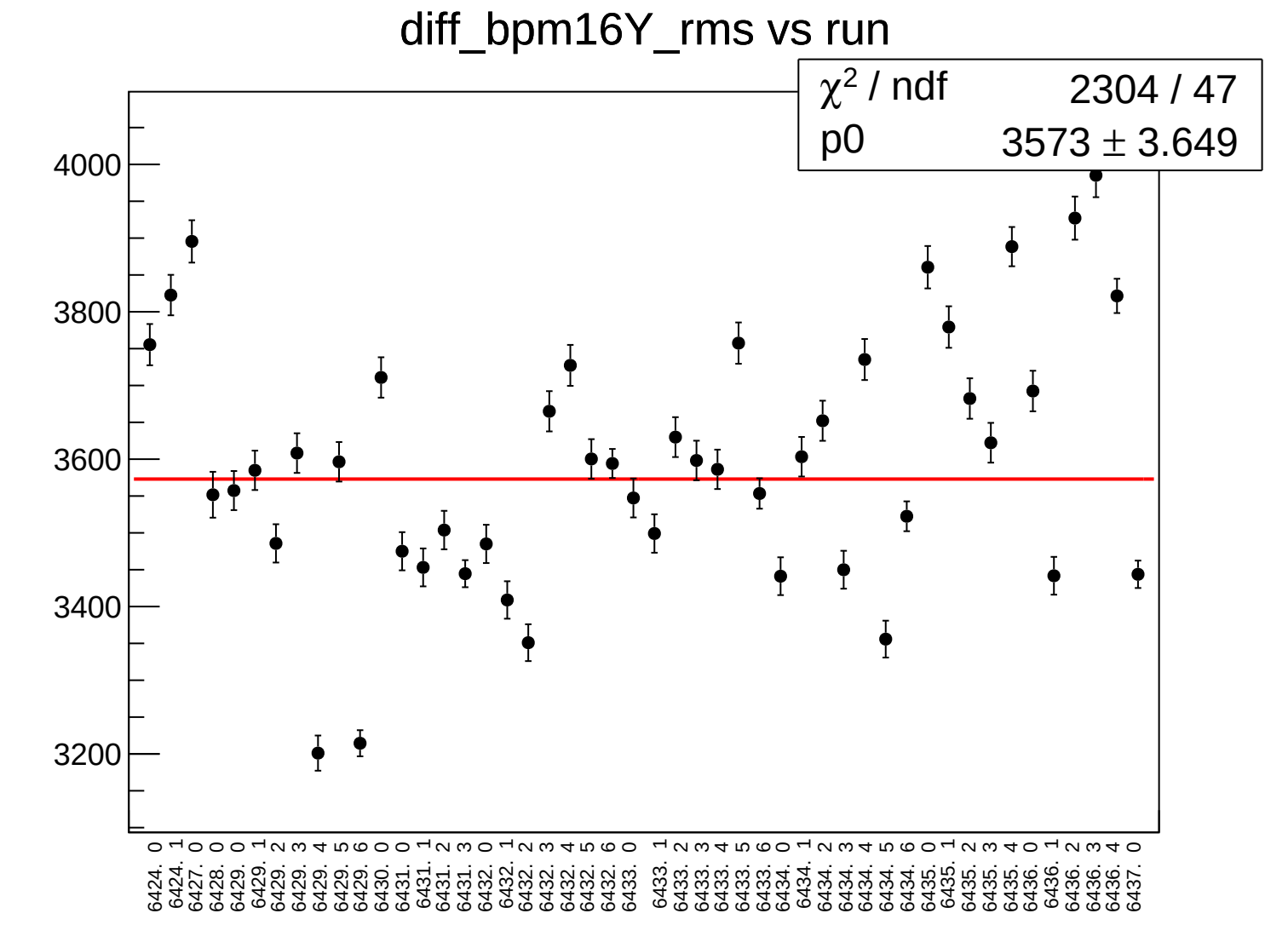

diff_bpm16X_mean vs run
χ² / ndf 70.79 / 47
p0 −8.765 ± 10.13
pull
Entries 48
Mean 89.13
Std Dev 89.63

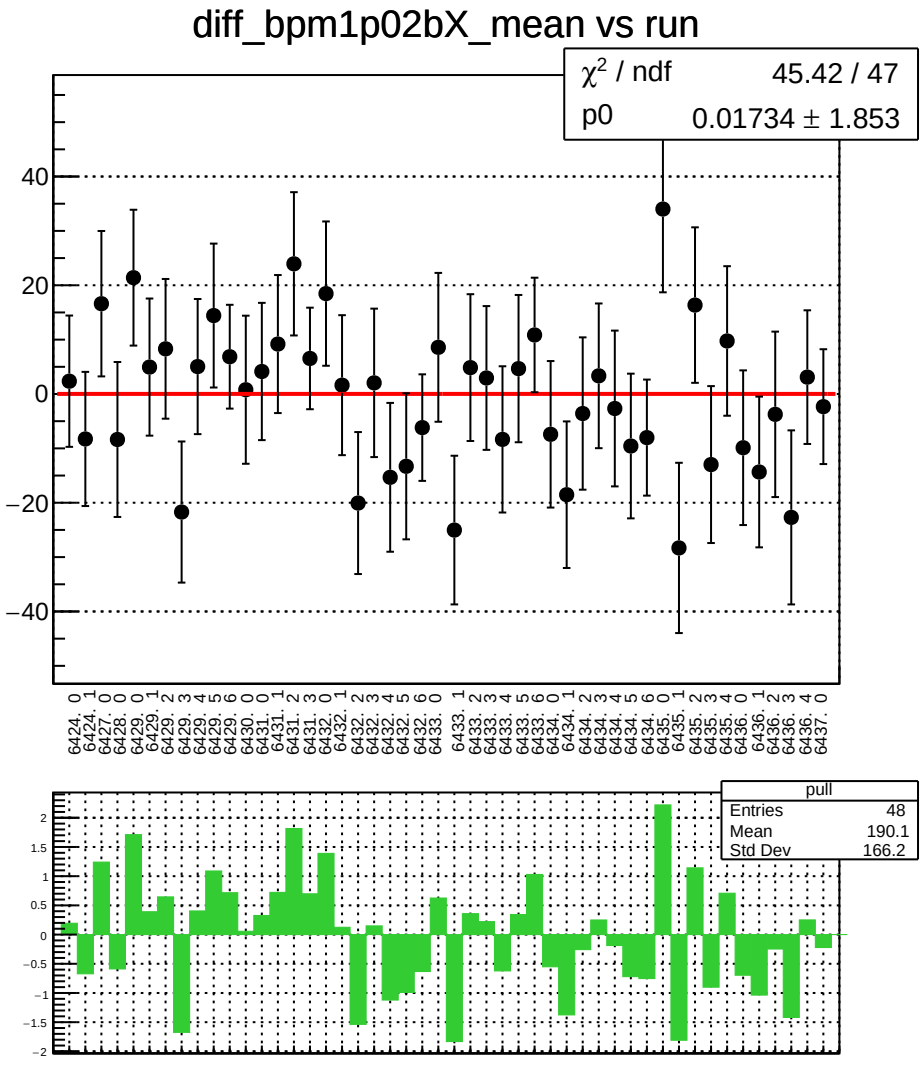

pull1D
Entries 48
Mean −0.008002
Std Dev 1.214

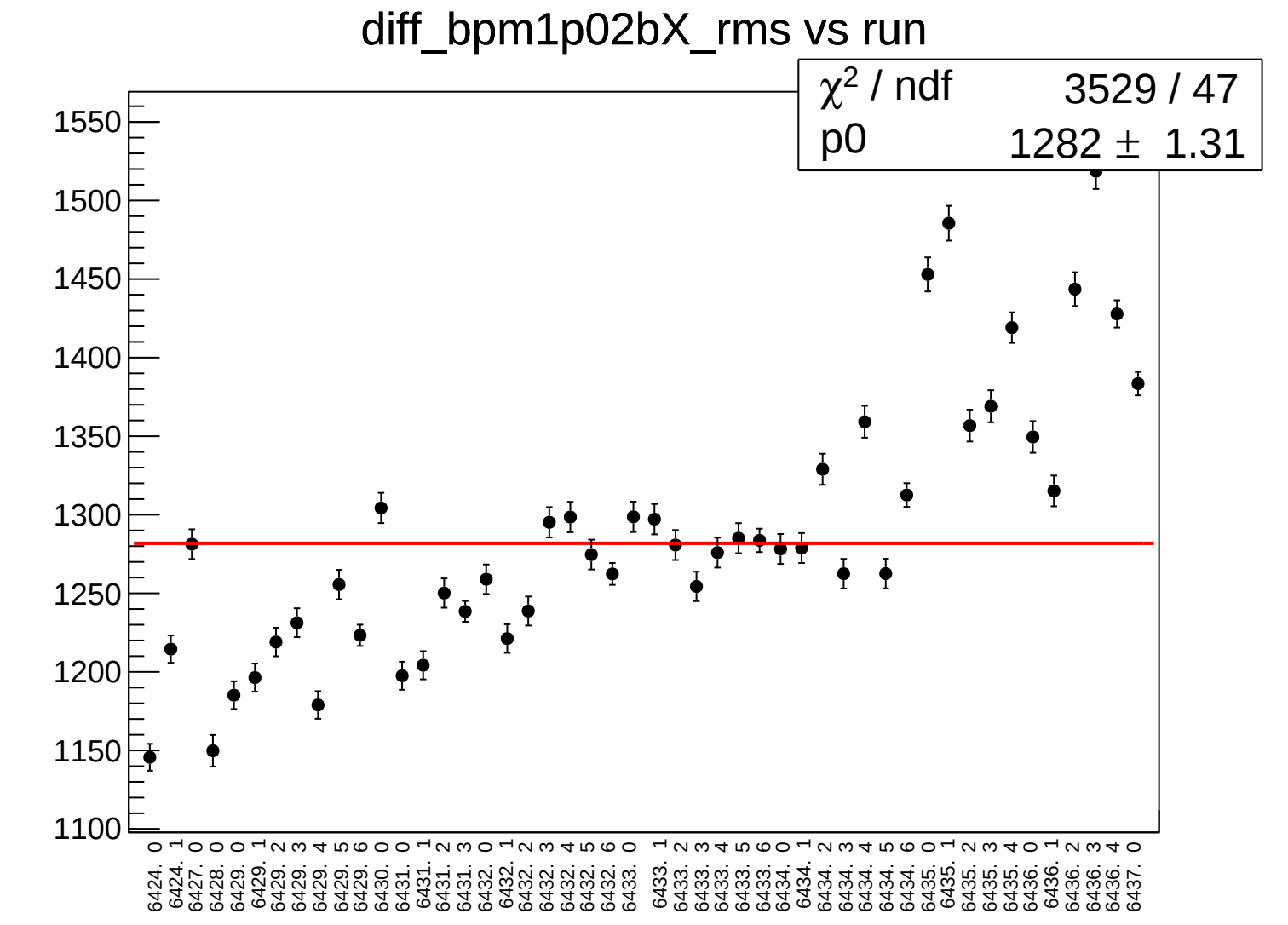

diff_bpm16X_rms vs run
χ² / ndf 2745 / 47
p0 7009 ± 7.161
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

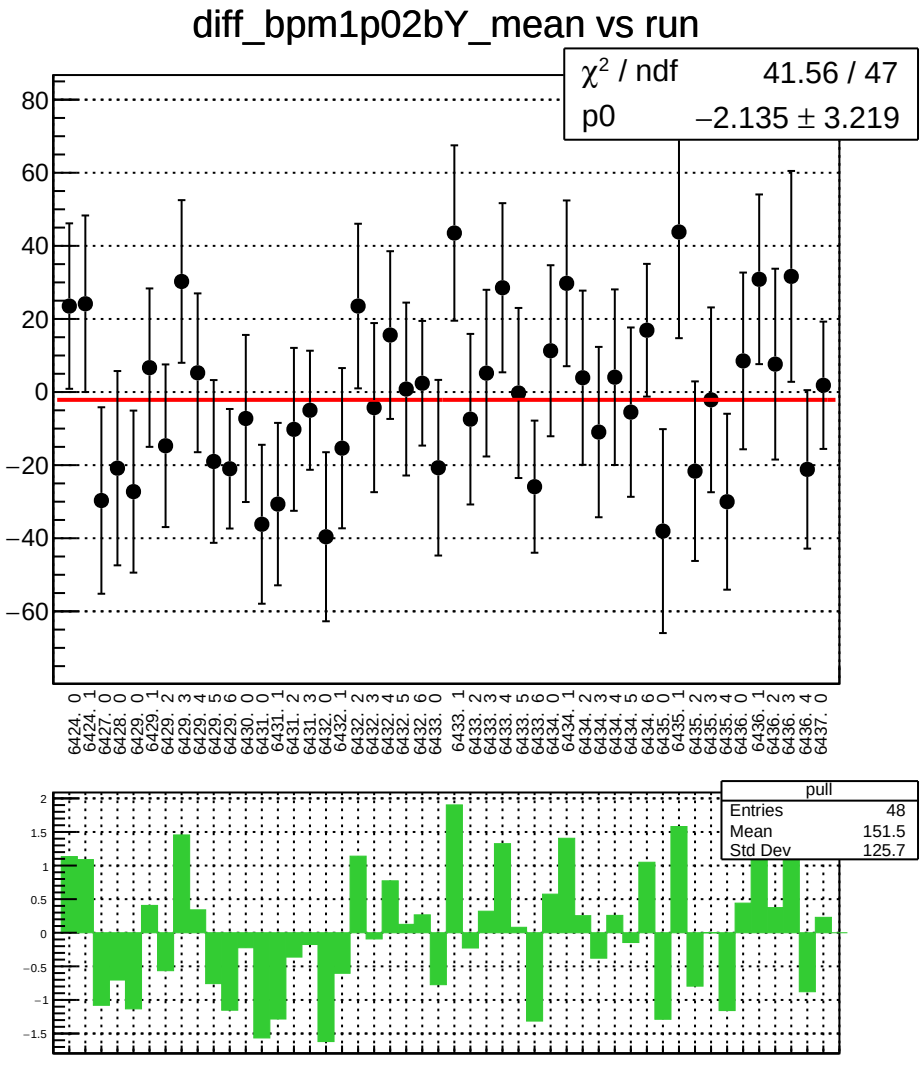

diff_bpm16Y_mean vs run
χ² / ndf 45.19 / 47
p0 −7.499 ± 5.161
100
50
0
−50
−100
−150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 121.4
Std Dev 97.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

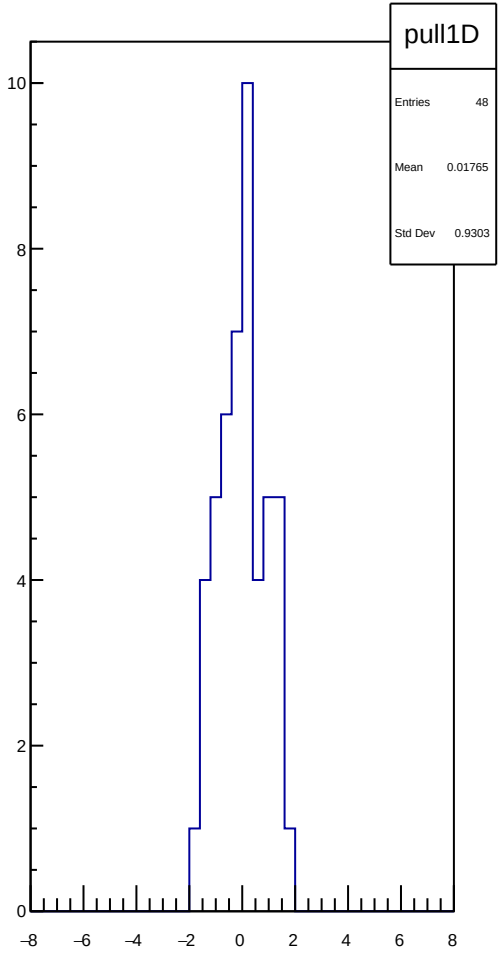

pull1D
Entries 48
Mean 0.01947
Std Dev 0.9701
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

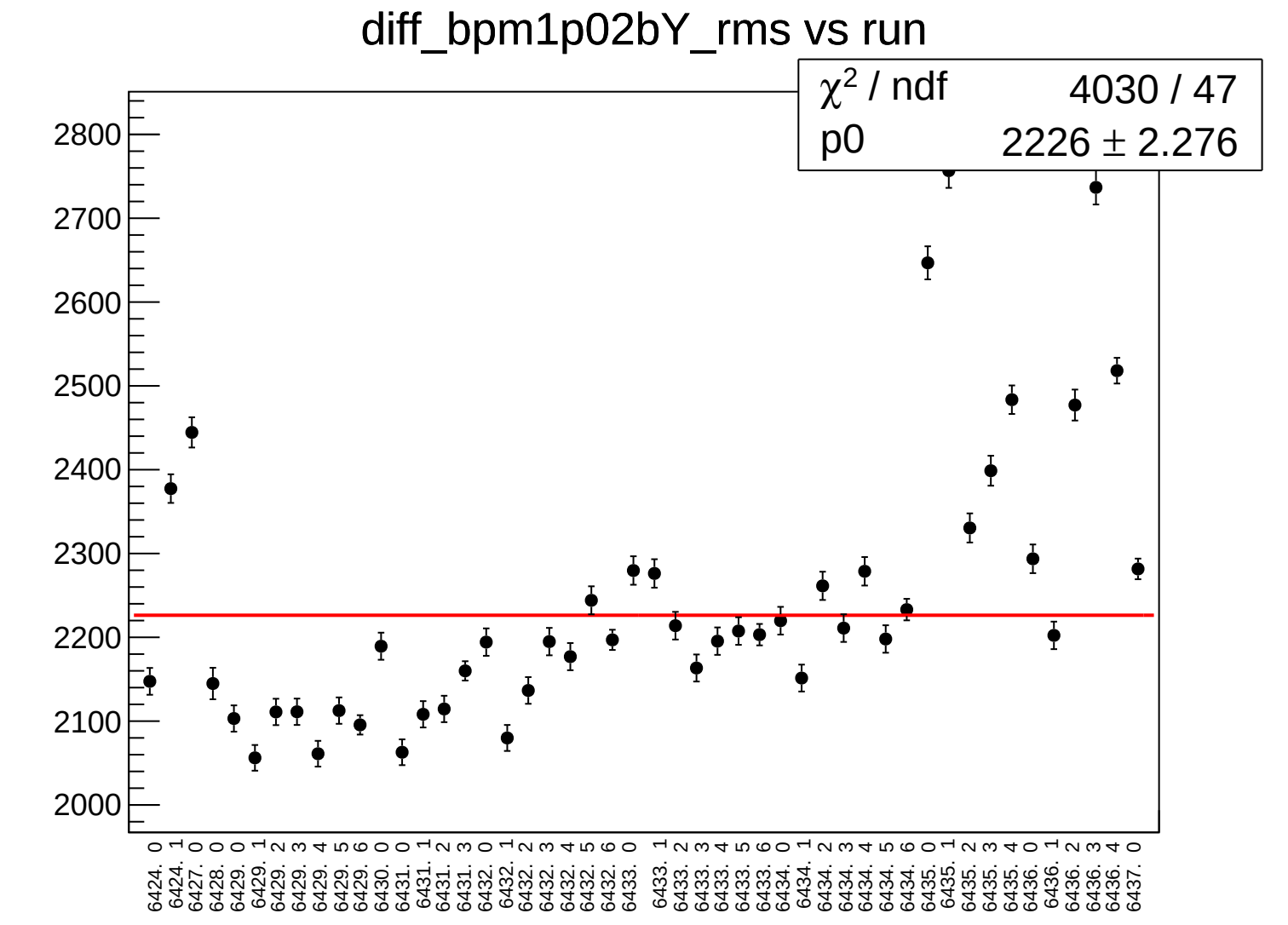

diff_bpm16Y_rms vs run
χ² / ndf 2304 / 47
p0 3573 ± 3.649
4000
3800
3600
3400
3200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

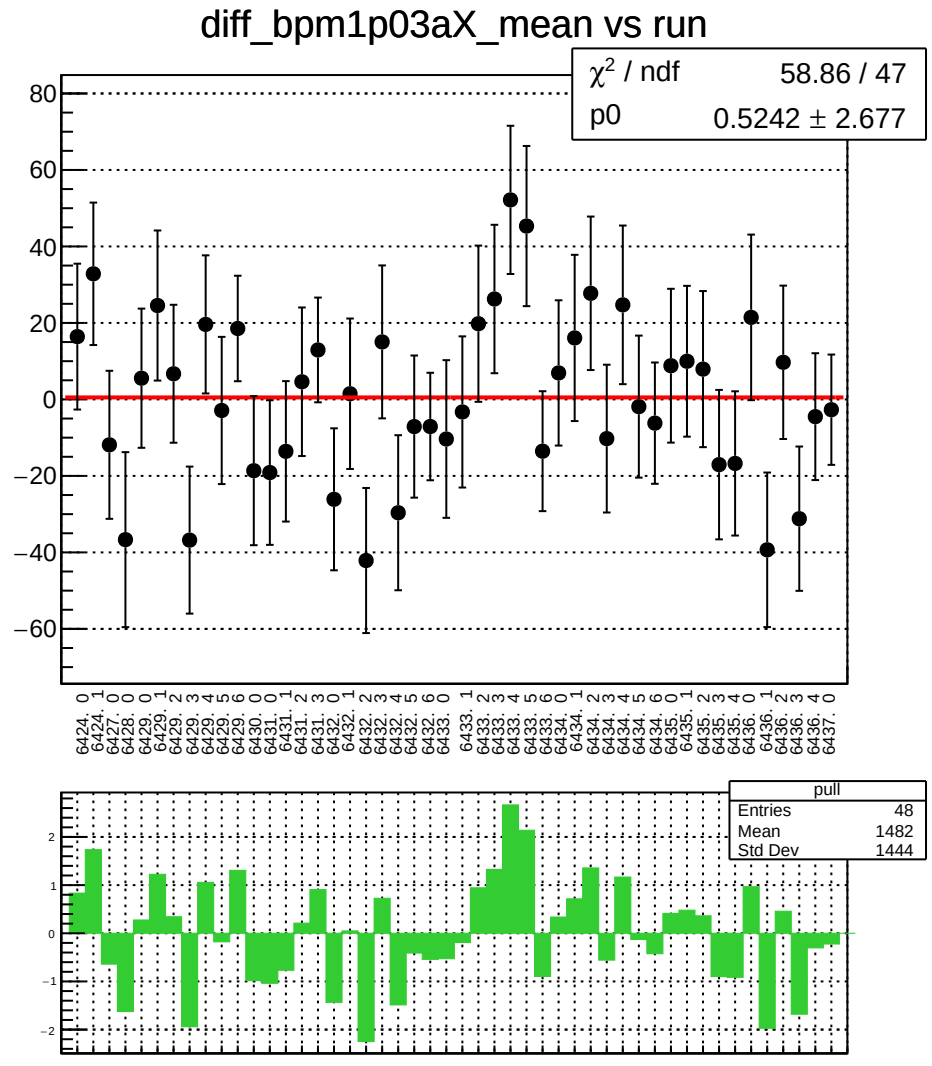

diff_bpm1p02bX_mean vs run
χ² / ndf 45.42 / 47
p0 0.01734 ± 1.853
40
20
0
−20
−40
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 190.1
Std Dev 166.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.02121
Std Dev 0.9726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

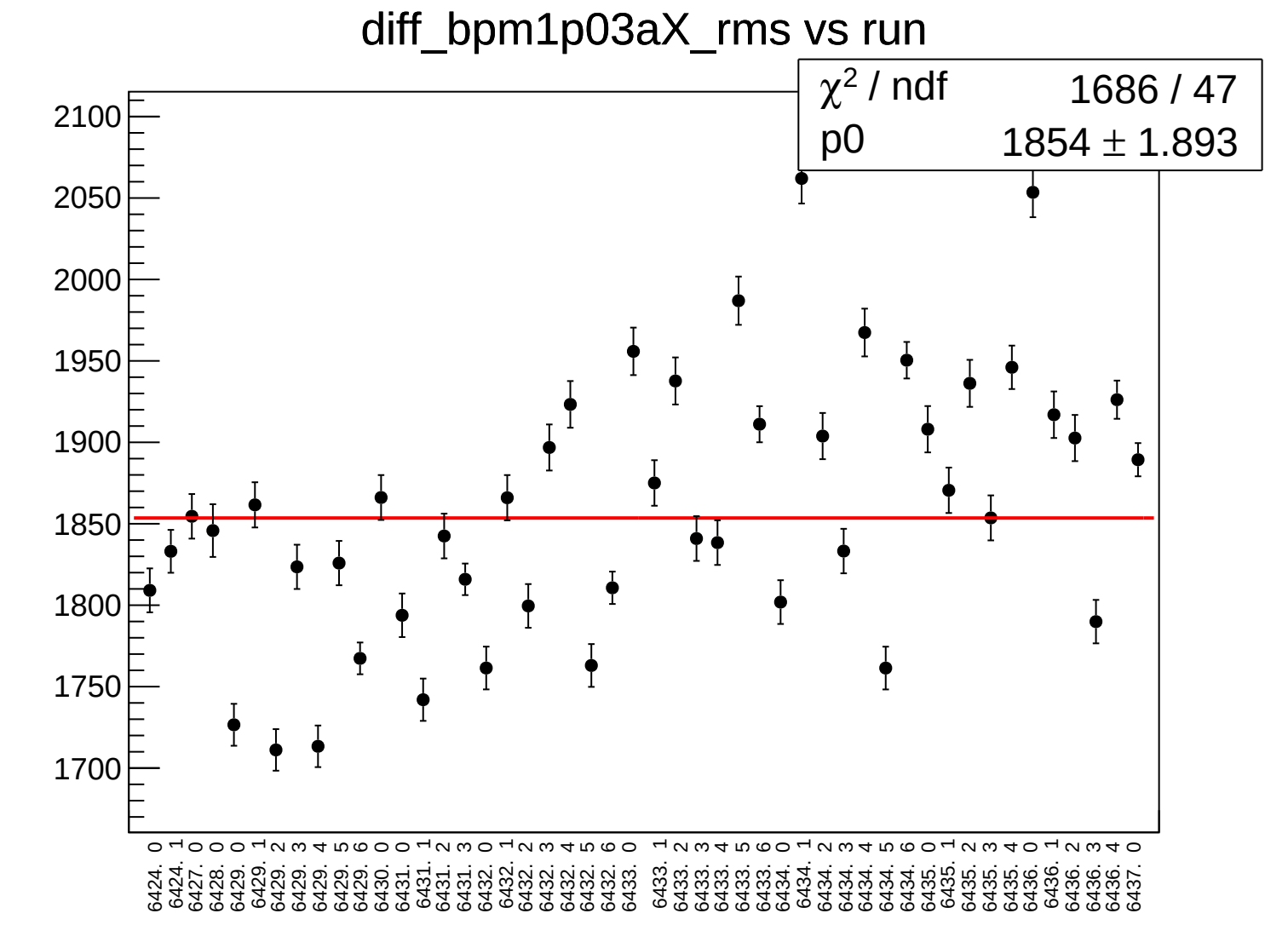

diff_bpm1p02bX_rms vs run
χ² / ndf 3529 / 47
p0 1282 ± 1.31
1550
1500
1450
1400
1350
1300
1250
1200
1150
1100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

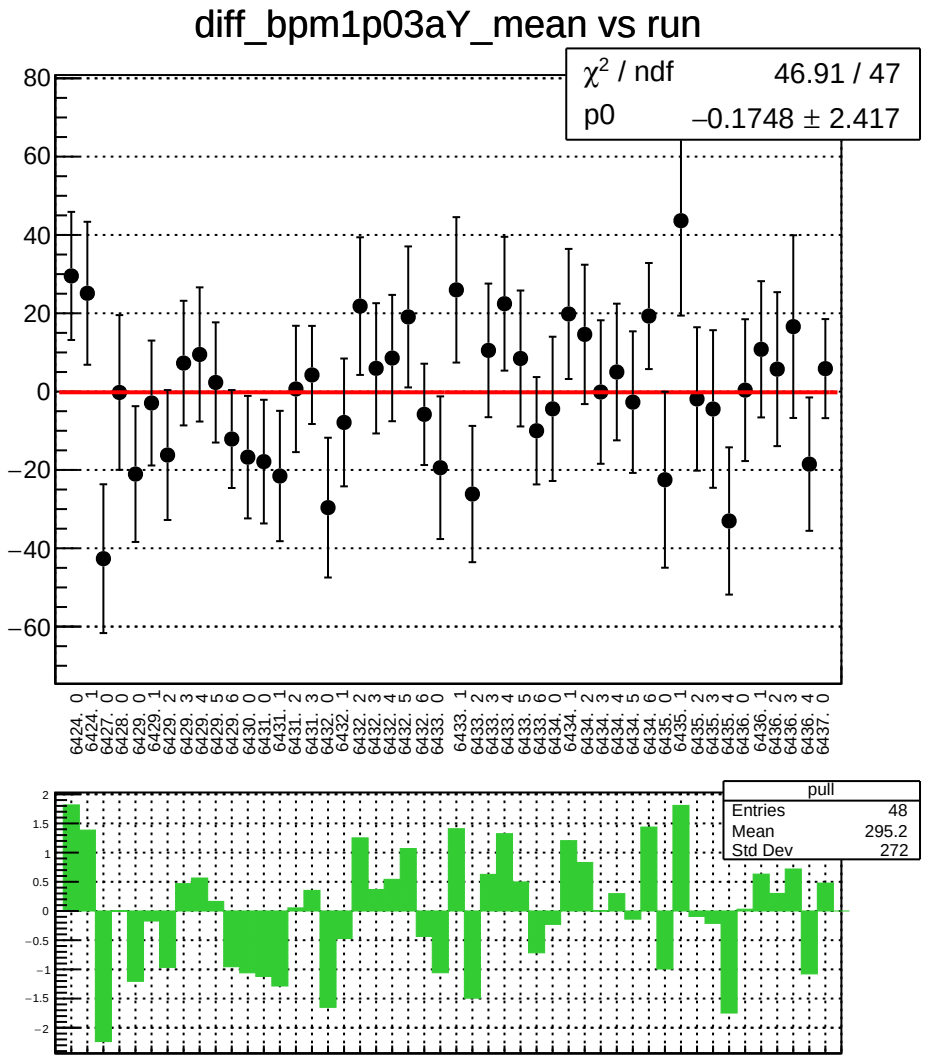

diff_bpm1p02bY_mean vs run
χ² / ndf 41.56 / 47
p0 −2.135 ± 3.219
pull
Entries 48
Mean 151.5
Std Dev 125.7

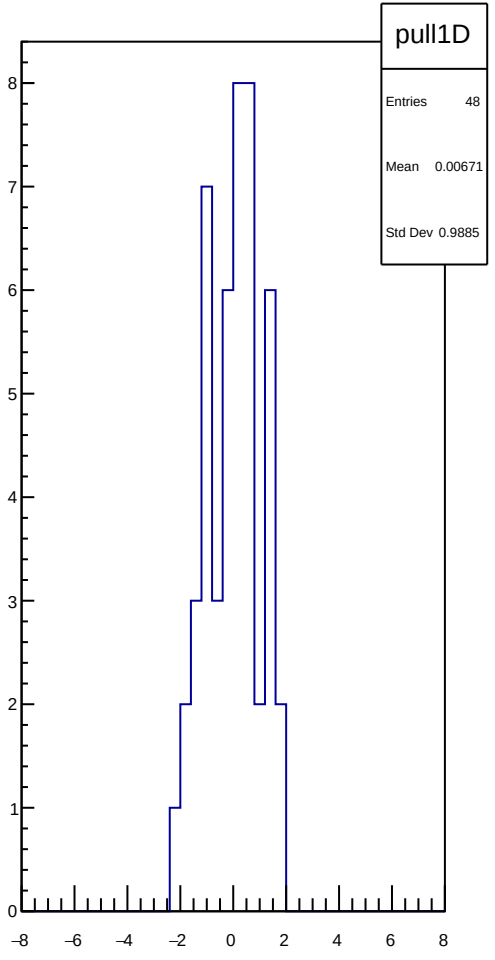

pull1D
Entries 48
Mean 0.01765
Std Dev 0.9303

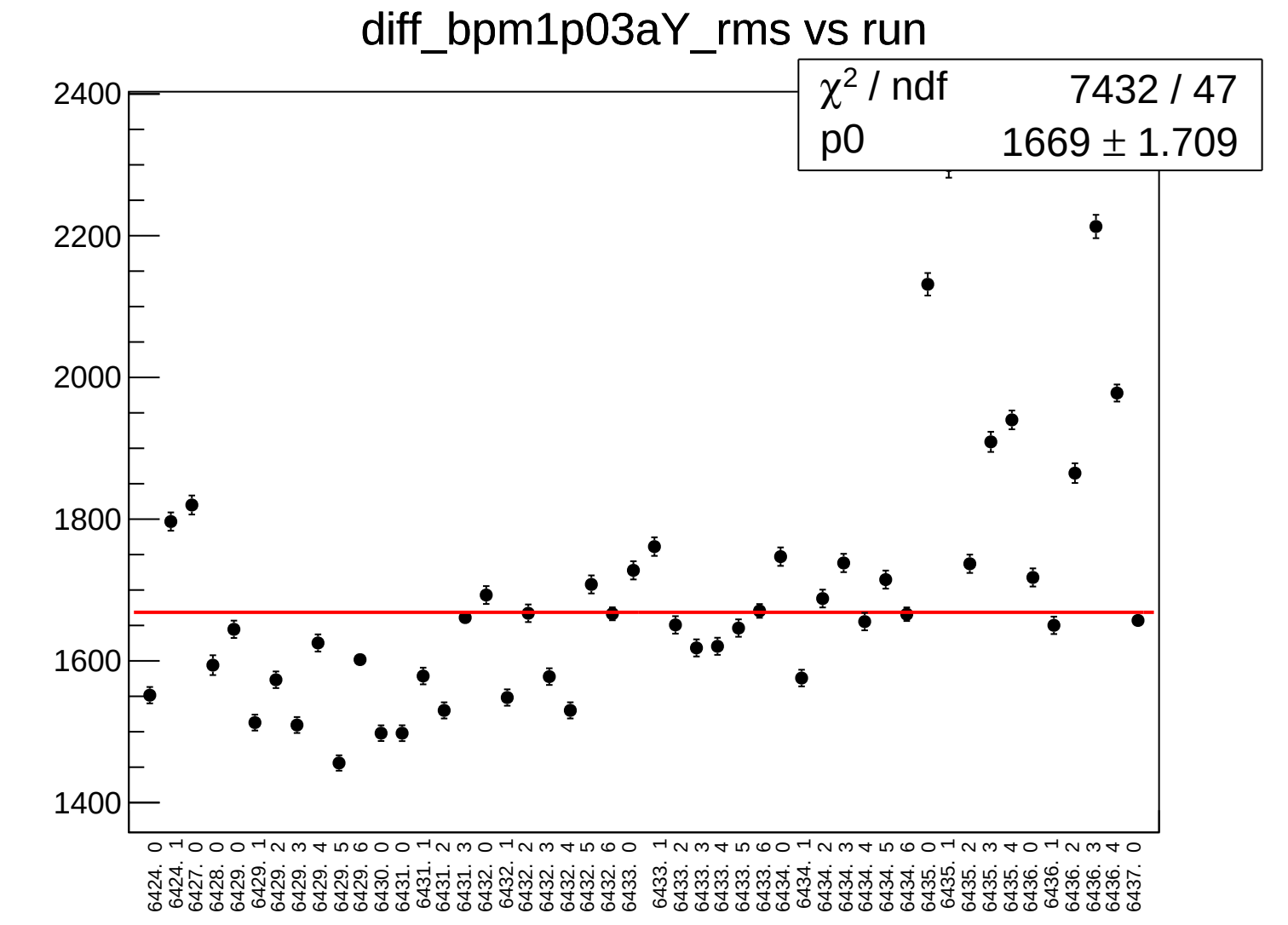

diff_bpm1p02bY_rms vs run
χ² / ndf 4030 / 47
p0 2226 ± 2.276
2800
2700
2600
2500
2400
2300
2200
2100
2000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

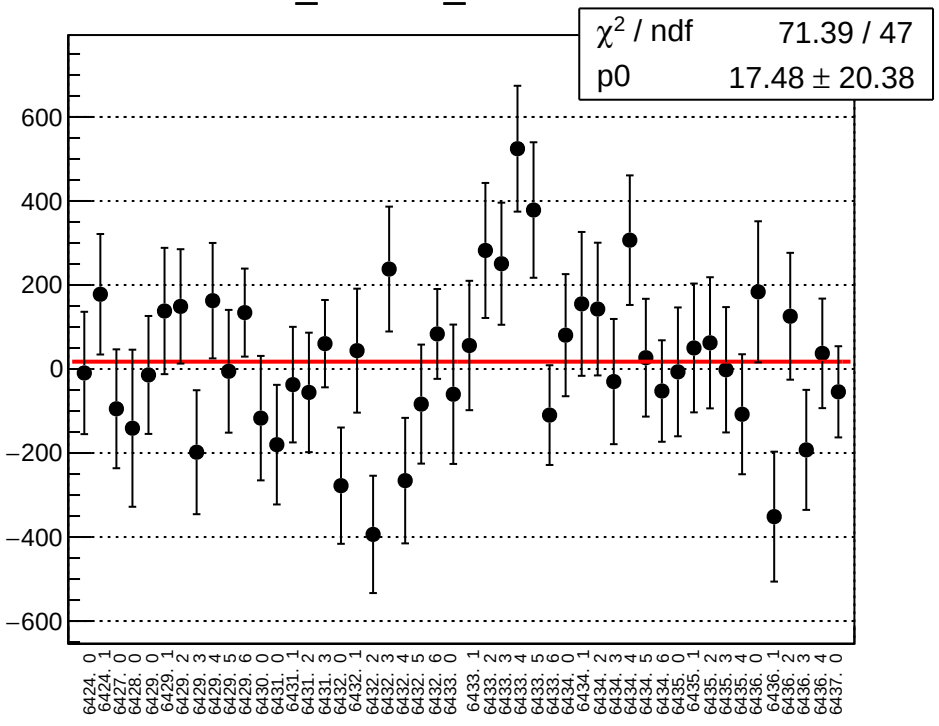

diff_bpm1p03aX_mean vs run
χ² / ndf 58.86 / 47
p0 0.5242 ± 2.677
pull
Entries 48
Mean 1482
Std Dev 1444
pull1D
Entries 48
Mean −0.000425
Std Dev 1.107

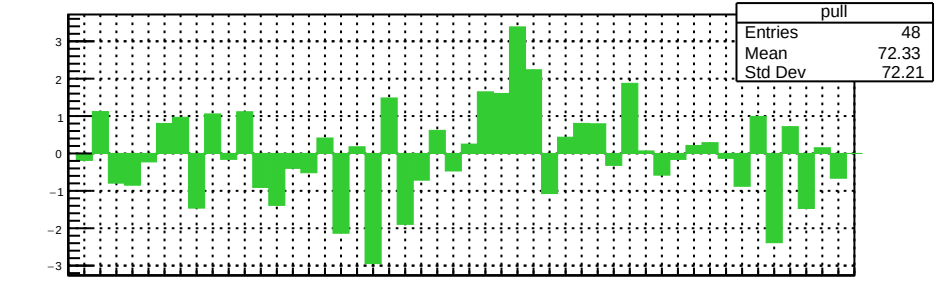

diff_bpm1p03aX_rms vs run
χ² / ndf 1686 / 47
p0 1854 ± 1.893
2100
2050
2000
1950
1900
1850
1800
1750
1700
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

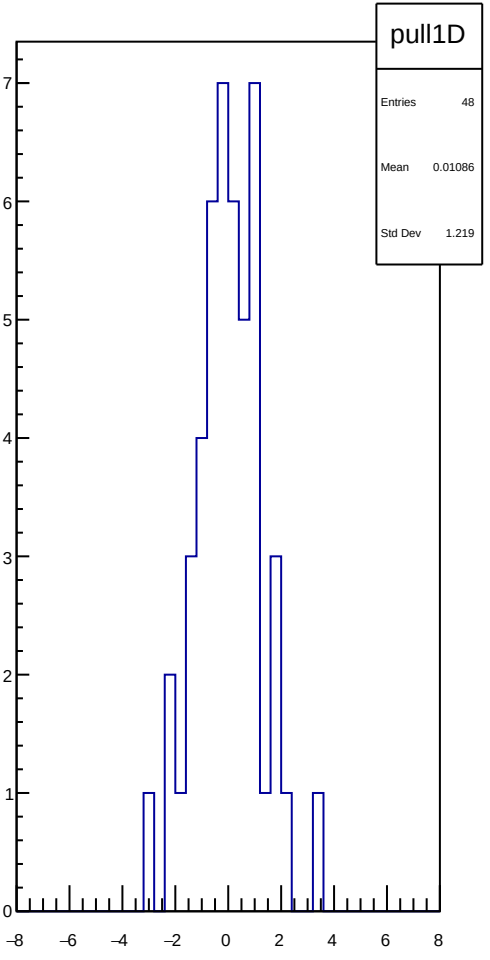

diff_bpm1p03aY_mean vs run
χ² / ndf 46.91 / 47
p0 −0.1748 ± 2.417
pull
Entries 48
Mean 295.2
Std Dev 272

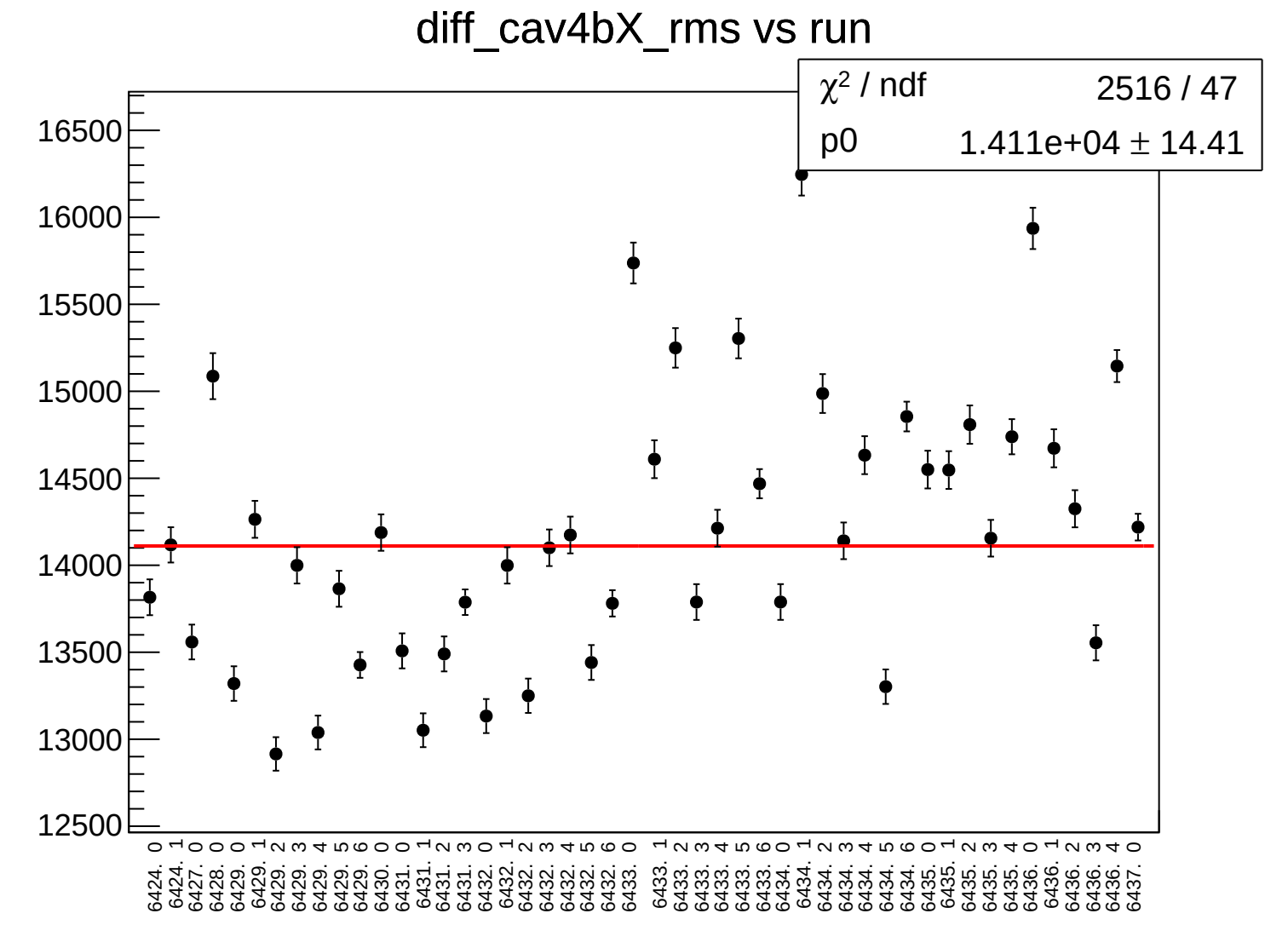

pull1D
Entries 48
Mean 0.00671
Std Dev 0.9885

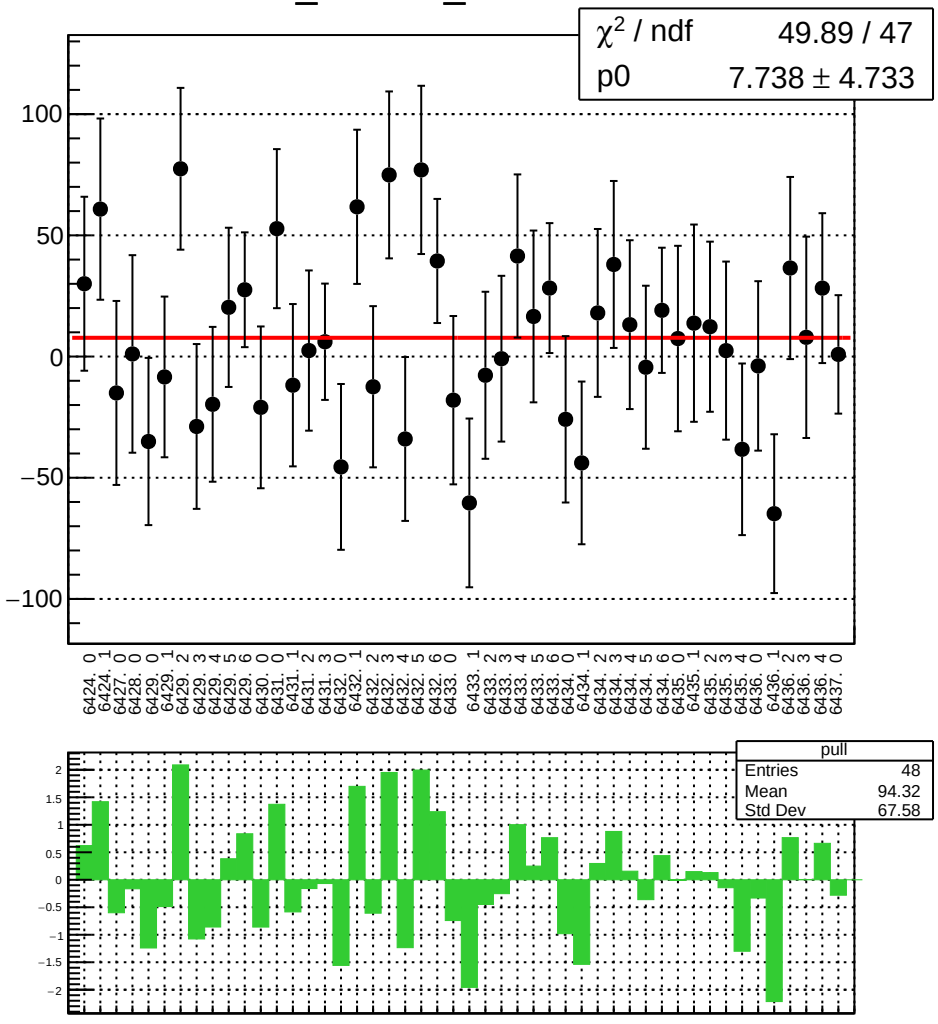

diff_bpm1p03aY_rms vs run
χ² / ndf 7432 / 47
p0 1669 ± 1.709
2400
2200
2000
1800
1600
1400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

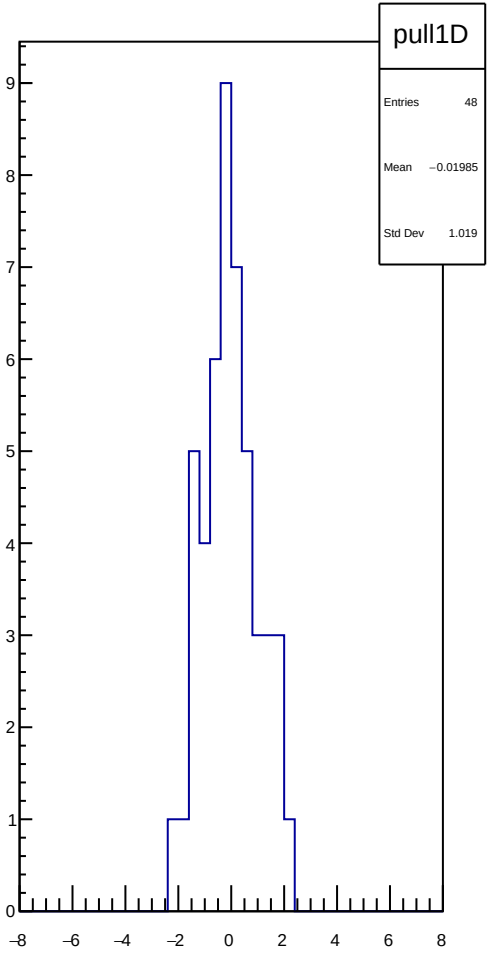

diff_cav4bX_mean vs run
χ^2 / ndf 71.39 / 47
p0 17.48 ± 20.38
600
400
200
0
−200
−400
−600
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

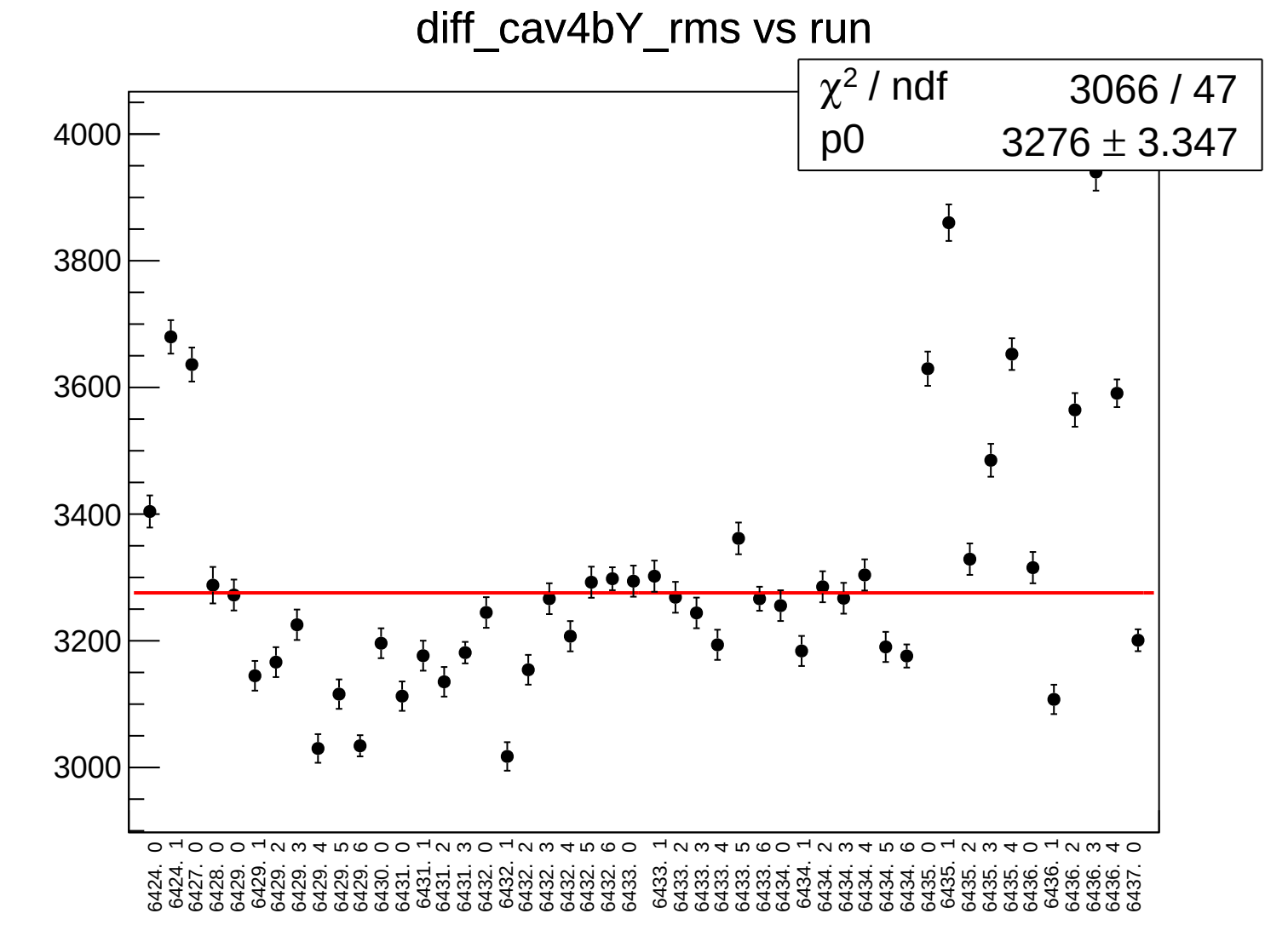

pull
Entries 48
Mean 72.33
Std Dev 72.21
3
2
1
0
−1
−2
−3

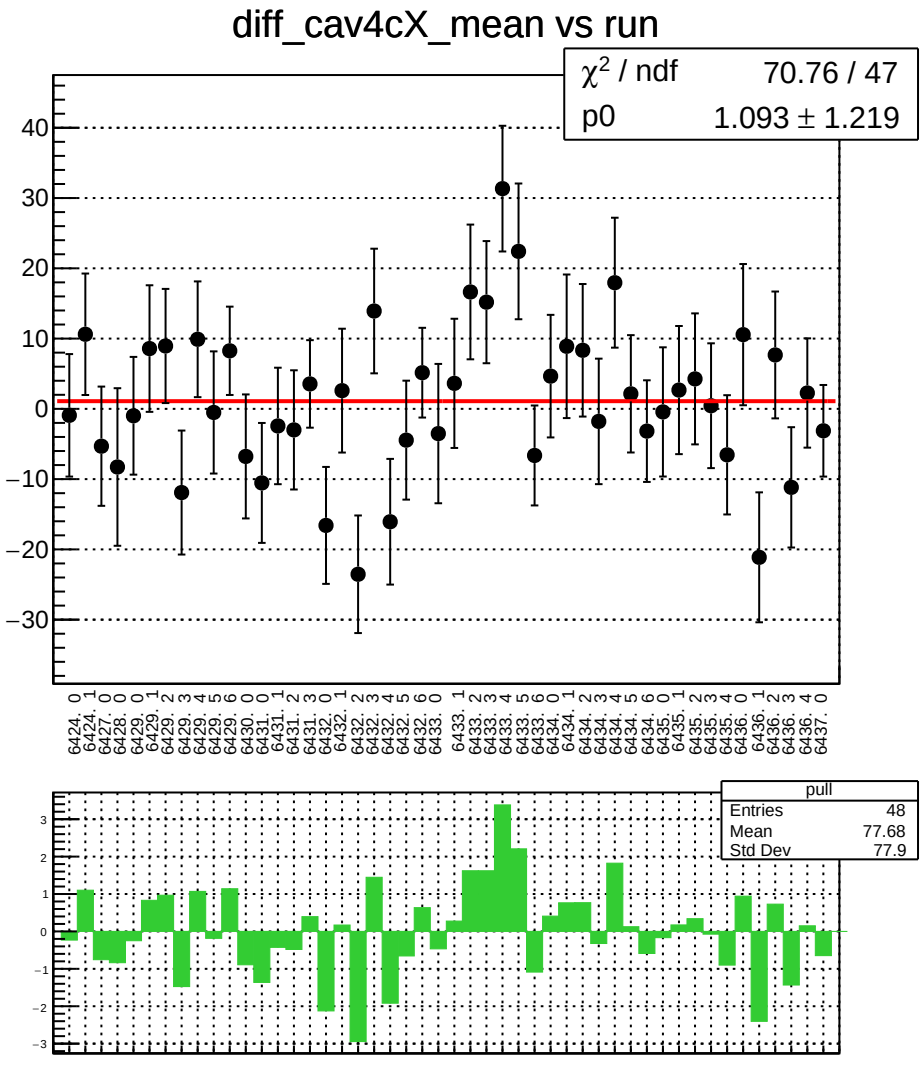

pull1D
Entries 48
Mean 0.01086
Std Dev 1.219
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

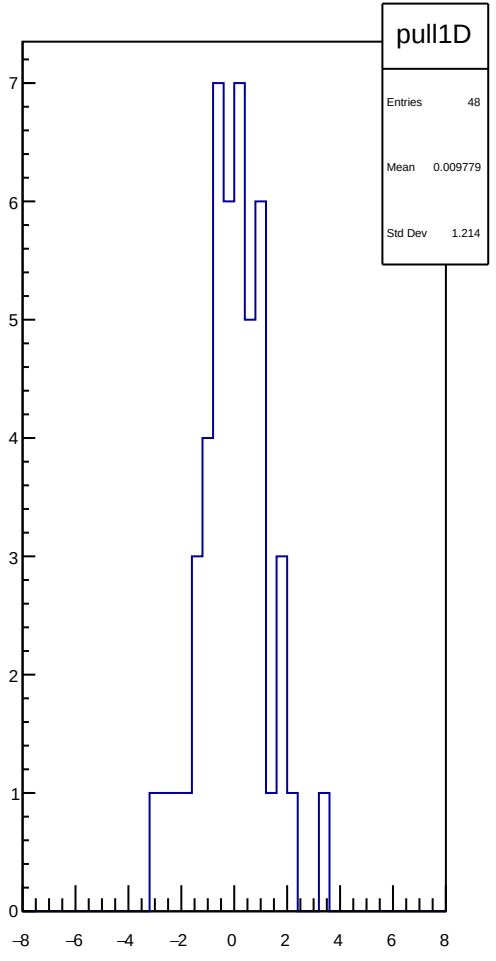

diff_cav4bX_rms vs run
χ² / ndf 2516 / 47
p0 1.411e+04 ± 14.41
16500
16000
15500
15000
14500
14000
13500
13000
12500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

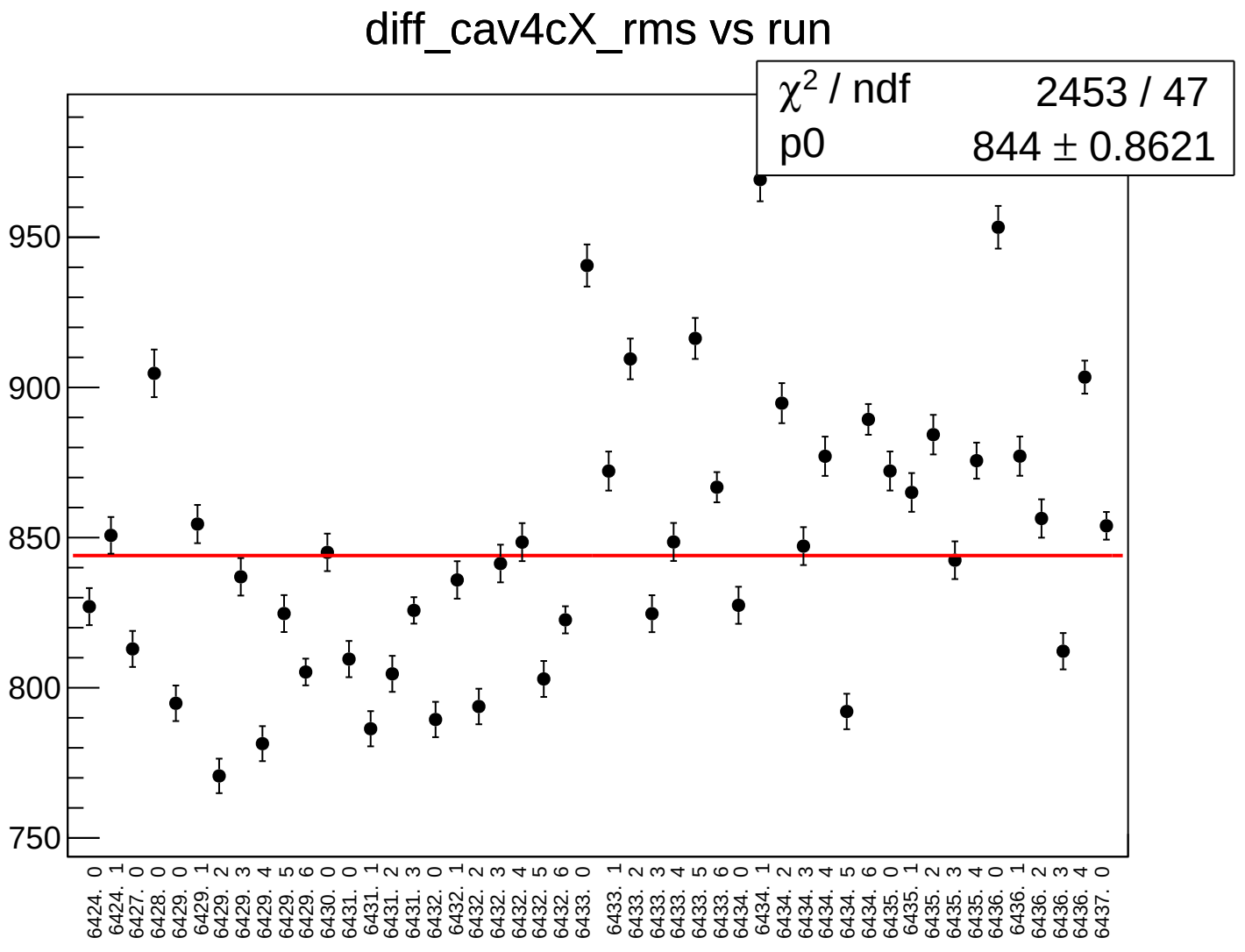

diff_cav4bY_mean vs run
χ² / ndf 49.89 / 47
p0 7.738 ± 4.733
100
50
0
−50
−100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 94.32
Std Dev 67.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

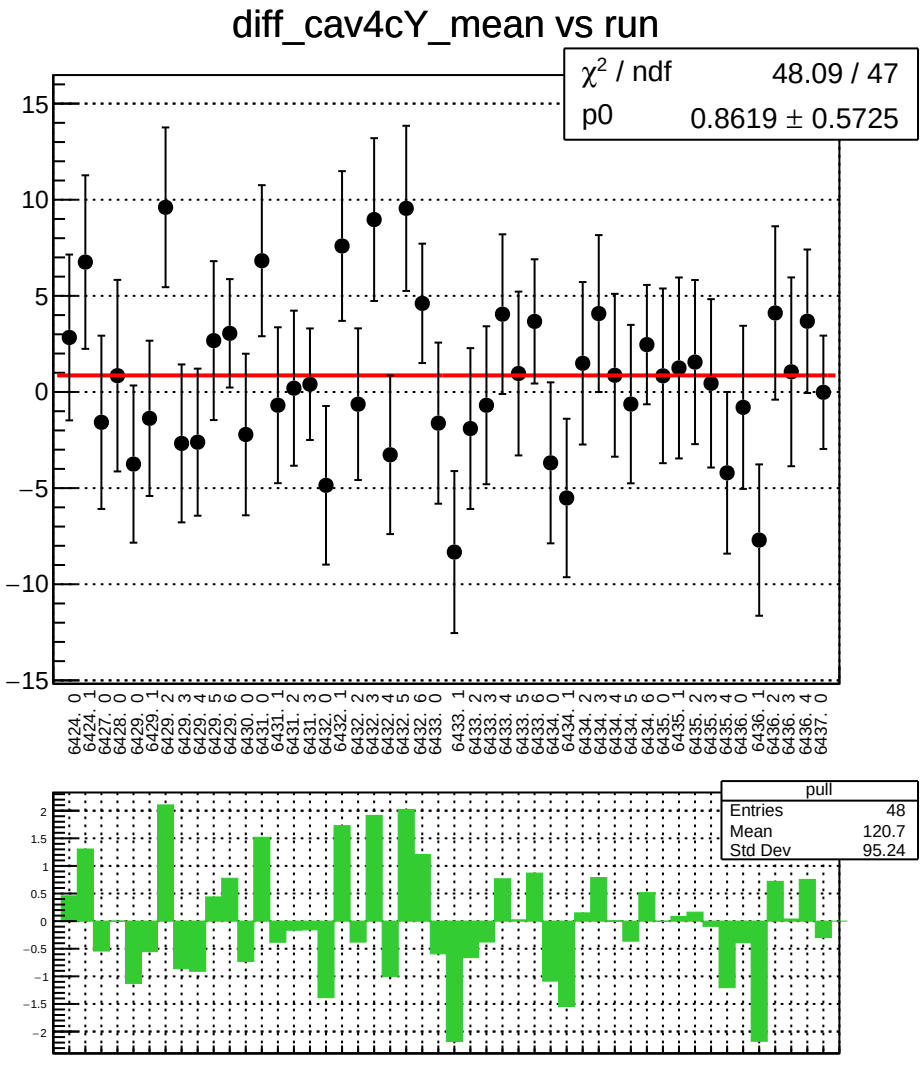

pull1D
Entries 48
Mean −0.01985
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

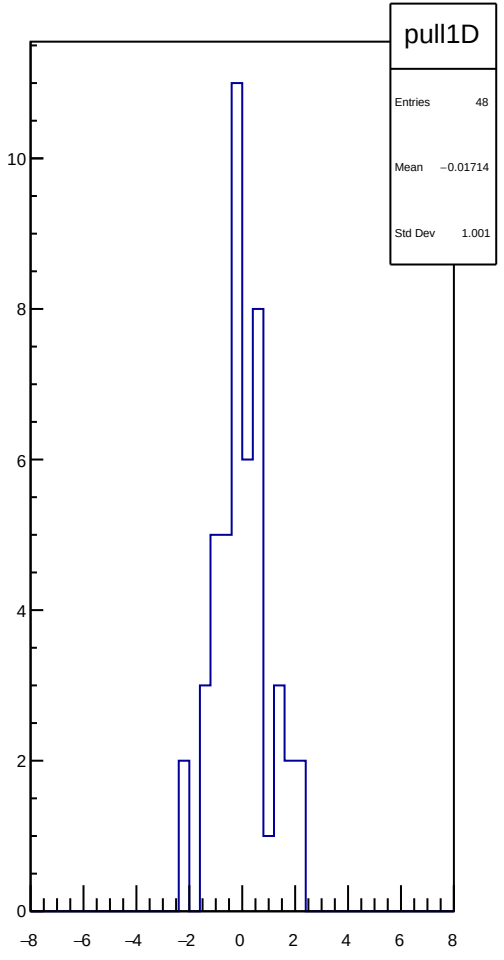

diff_cav4bY_rms vs run
χ² / ndf 3066 / 47
p0 3276 ± 3.347
4000
3800
3600
3400
3200
3000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

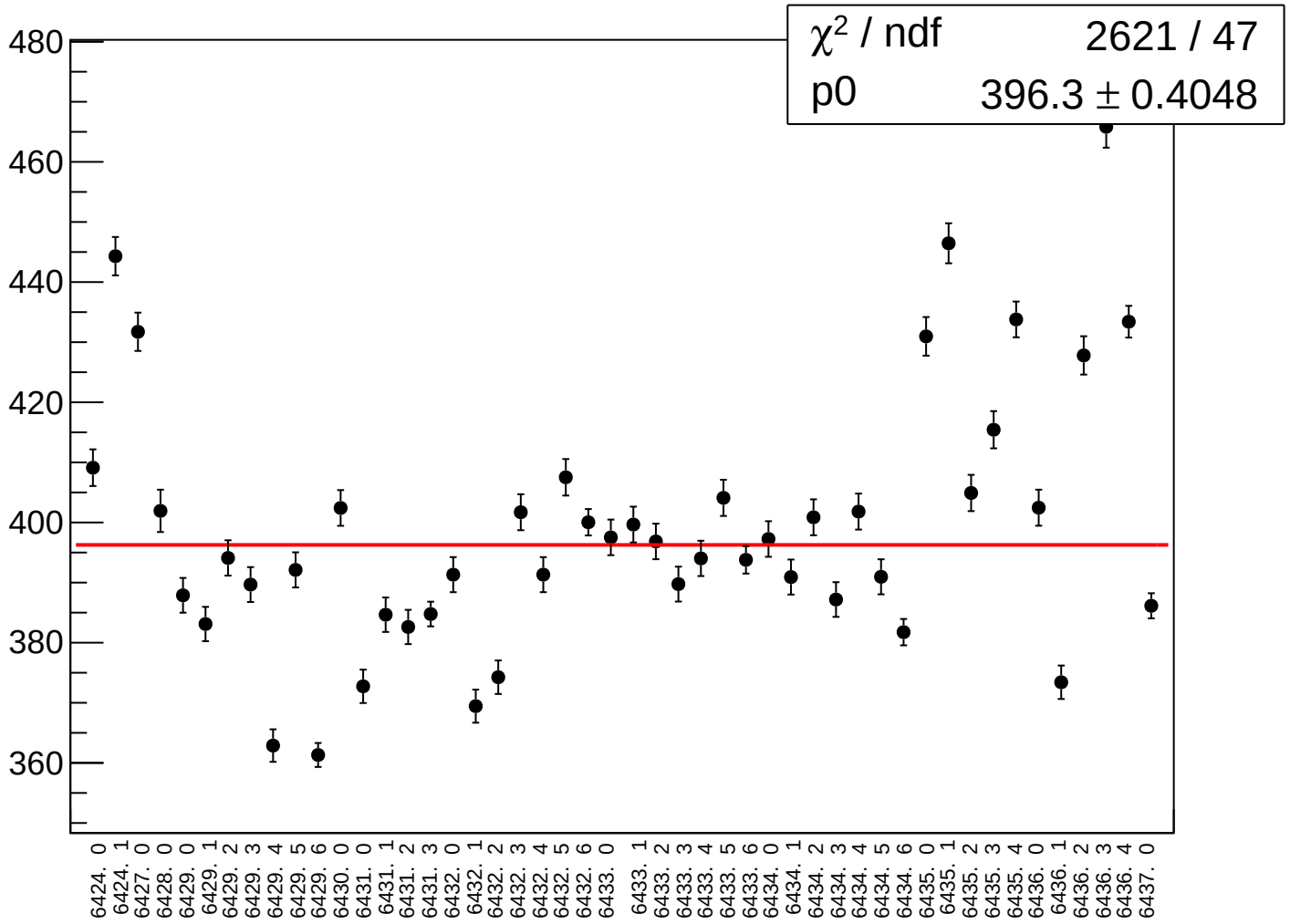

diff_cav4cX_mean vs run
χ^2 / ndf 70.76 / 47
p0 1.093 ± 1.219
pull
Entries 48
Mean 77.68
Std Dev 77.9

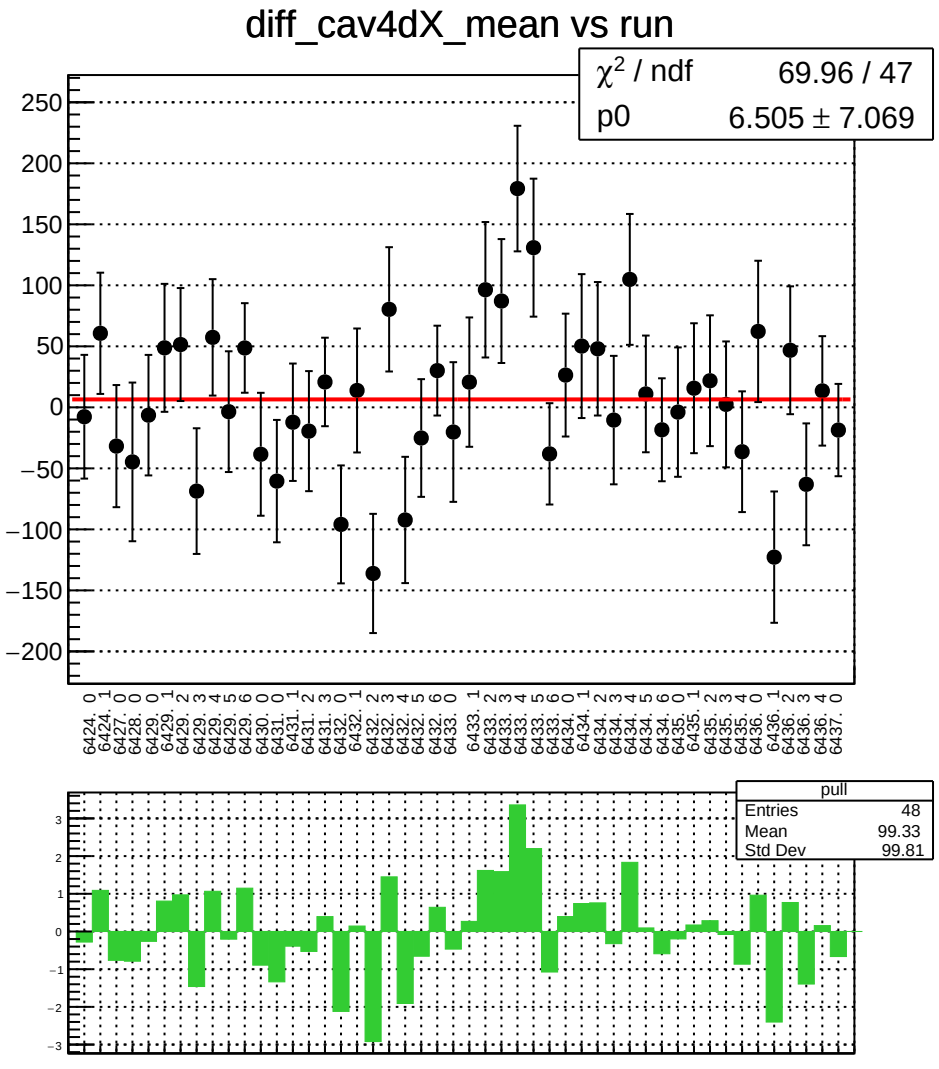

pull1D
Entries 48
Mean 0.009779
Std Dev 1.214

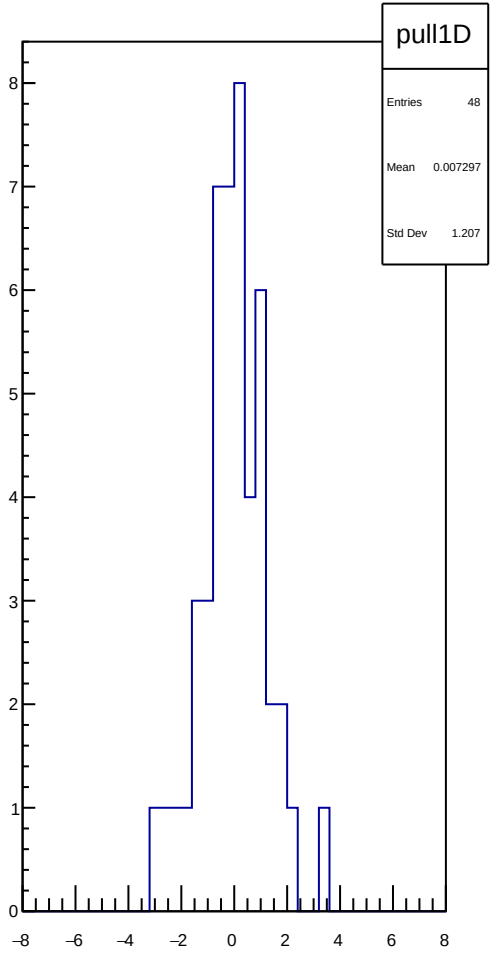

diff_cav4cX_rms vs run
χ² / ndf 2453 / 47
p0 844 ± 0.8621
950
900
850
800
750
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

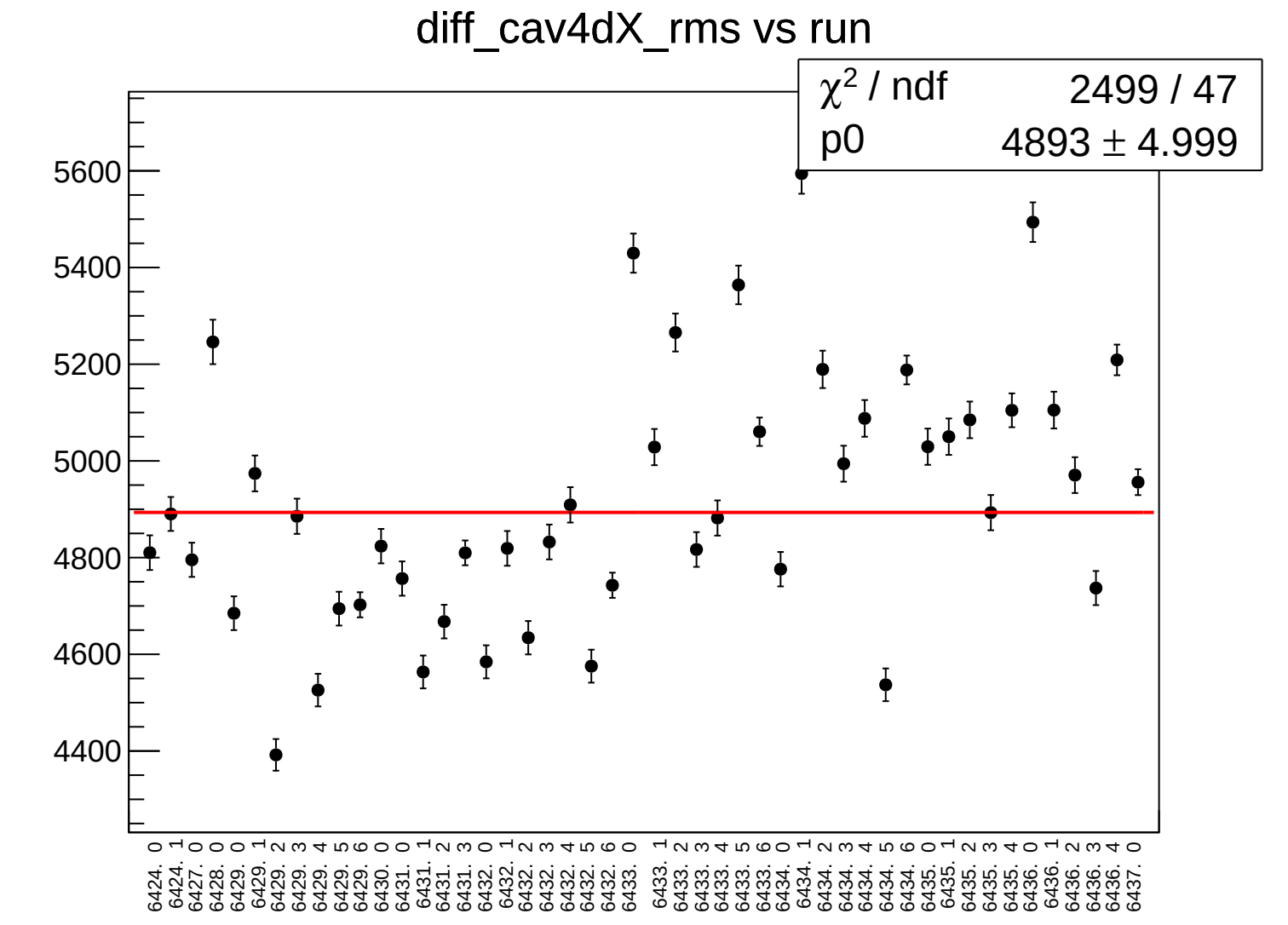

diff_cav4cY_mean vs run
χ² / ndf 48.09 / 47
p0 0.8619 ± 0.5725
pull
Entries 48
Mean 120.7
Std Dev 95.24

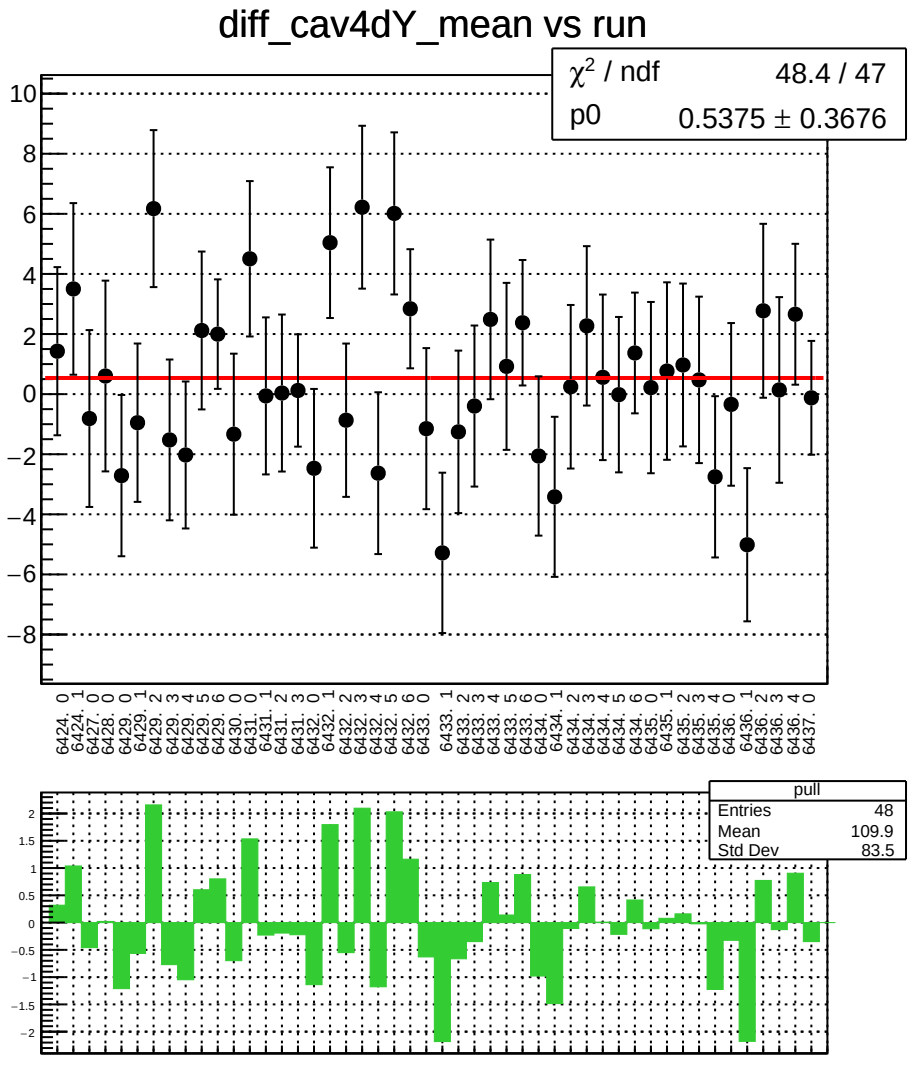

pull1D
Entries 48
Mean −0.01714
Std Dev 1.001

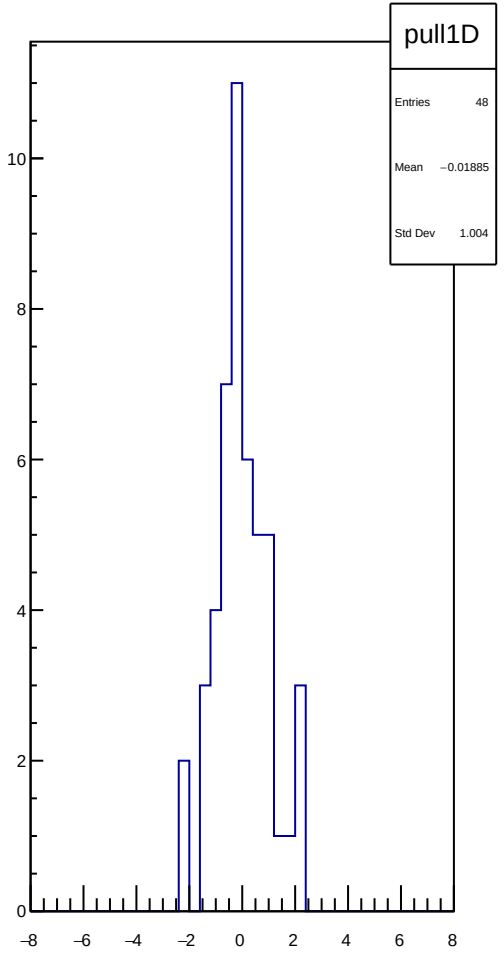

diff_cav4cY_rms vs run
χ² / ndf 2621 / 47
p0 396.3 ± 0.4048
480
460
440
420
400
380
360
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

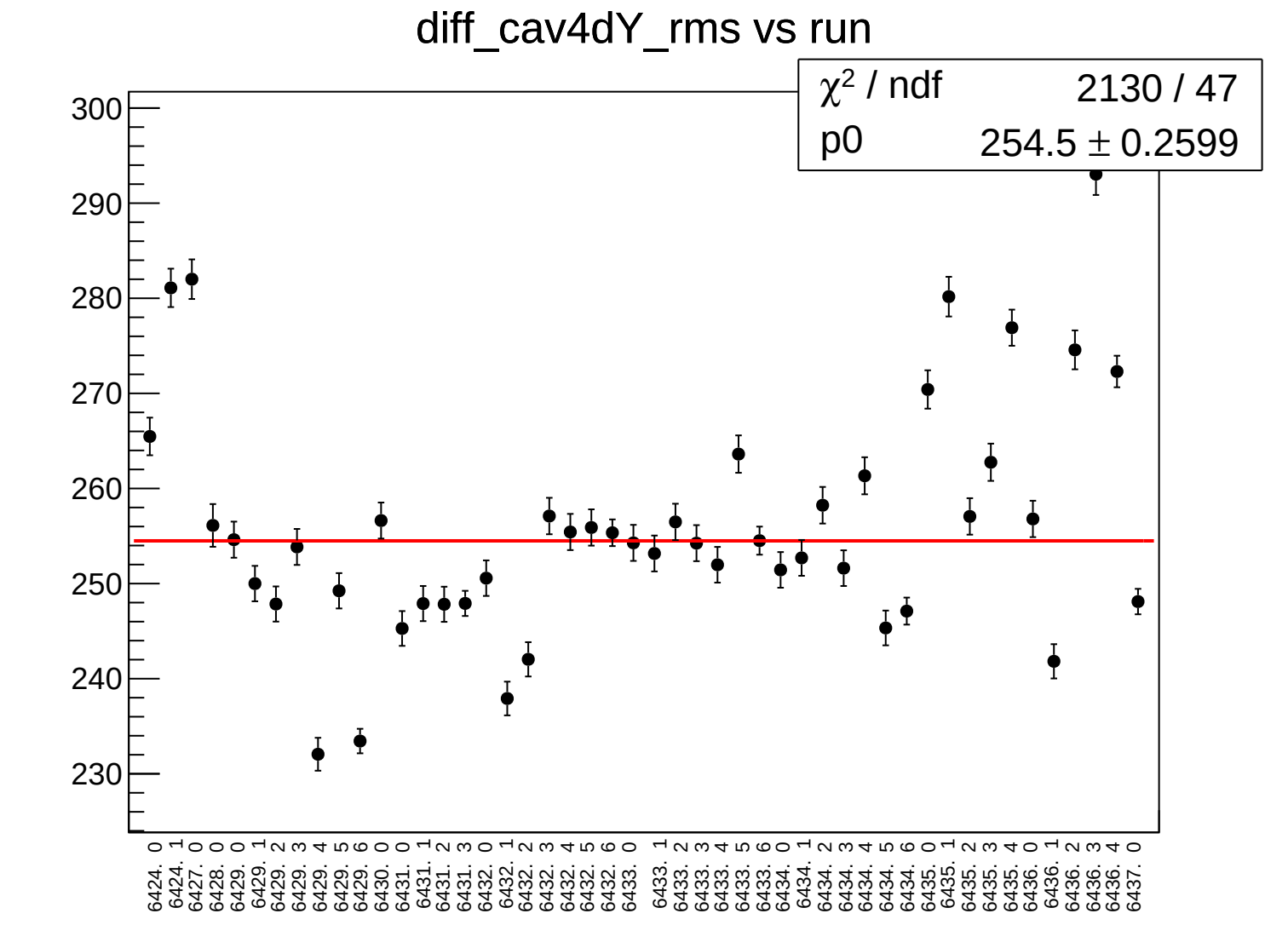

diff_cav4dX_mean vs run
χ^2 / ndf 69.96 / 47
p0 6.505 ± 7.069
pull
Entries 48
Mean 99.33
Std Dev 99.81

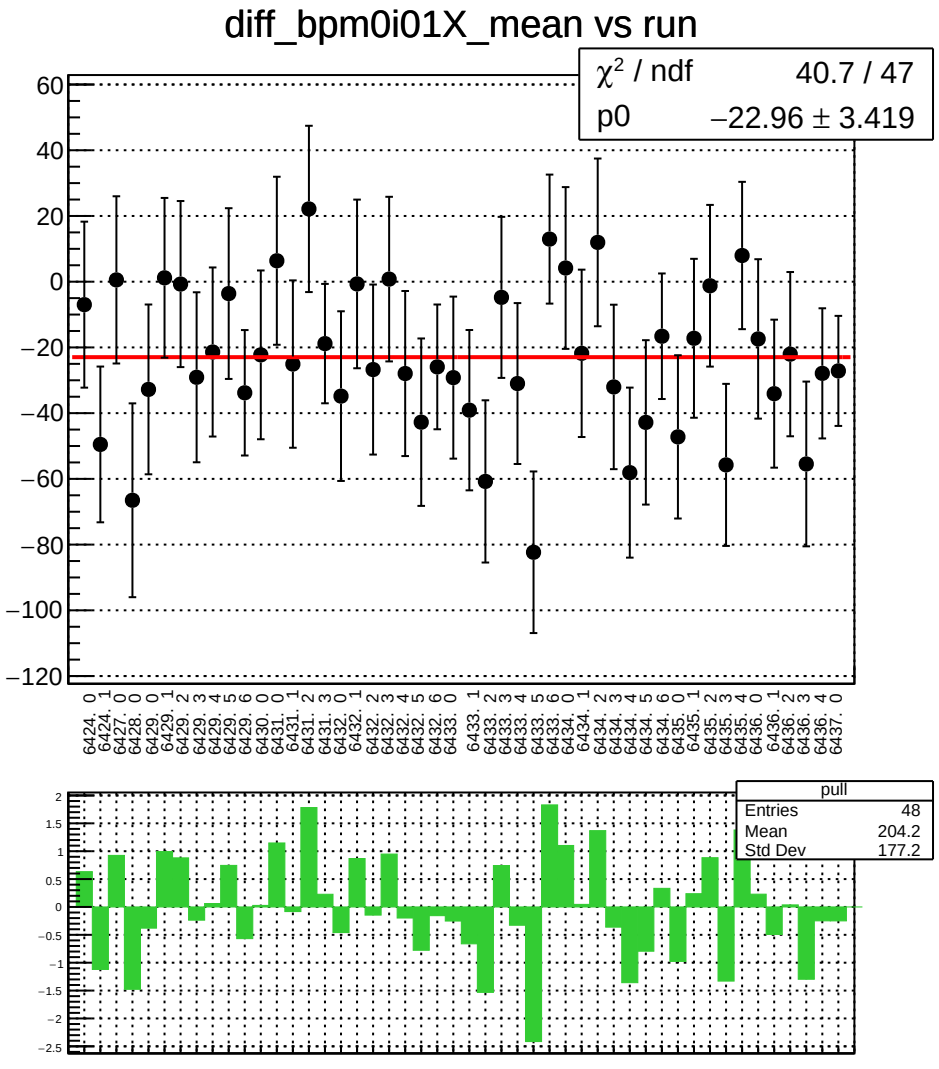

pull1D
Entries 48
Mean 0.007297
Std Dev 1.207

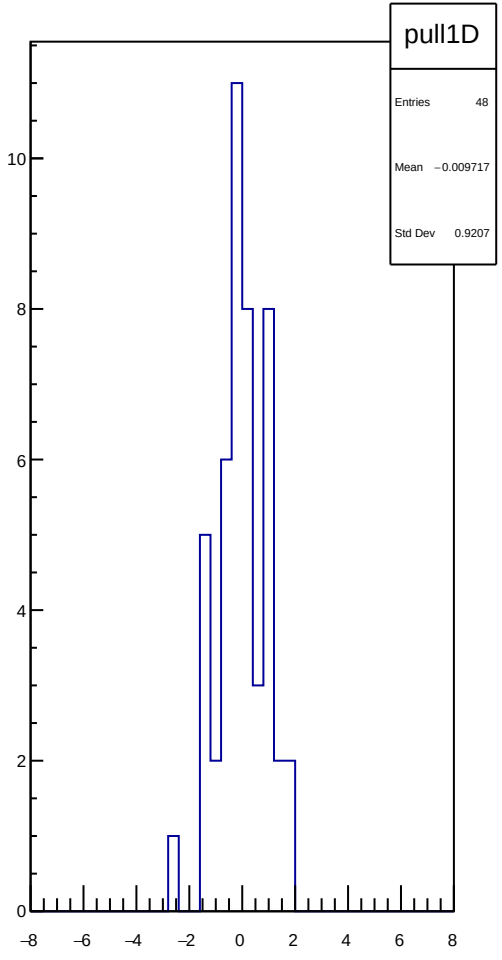

diff_cav4dX_rms vs run
χ² / ndf 2499 / 47
p0 4893 ± 4.999
5600
5400
5200
5000
4800
4600
4400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

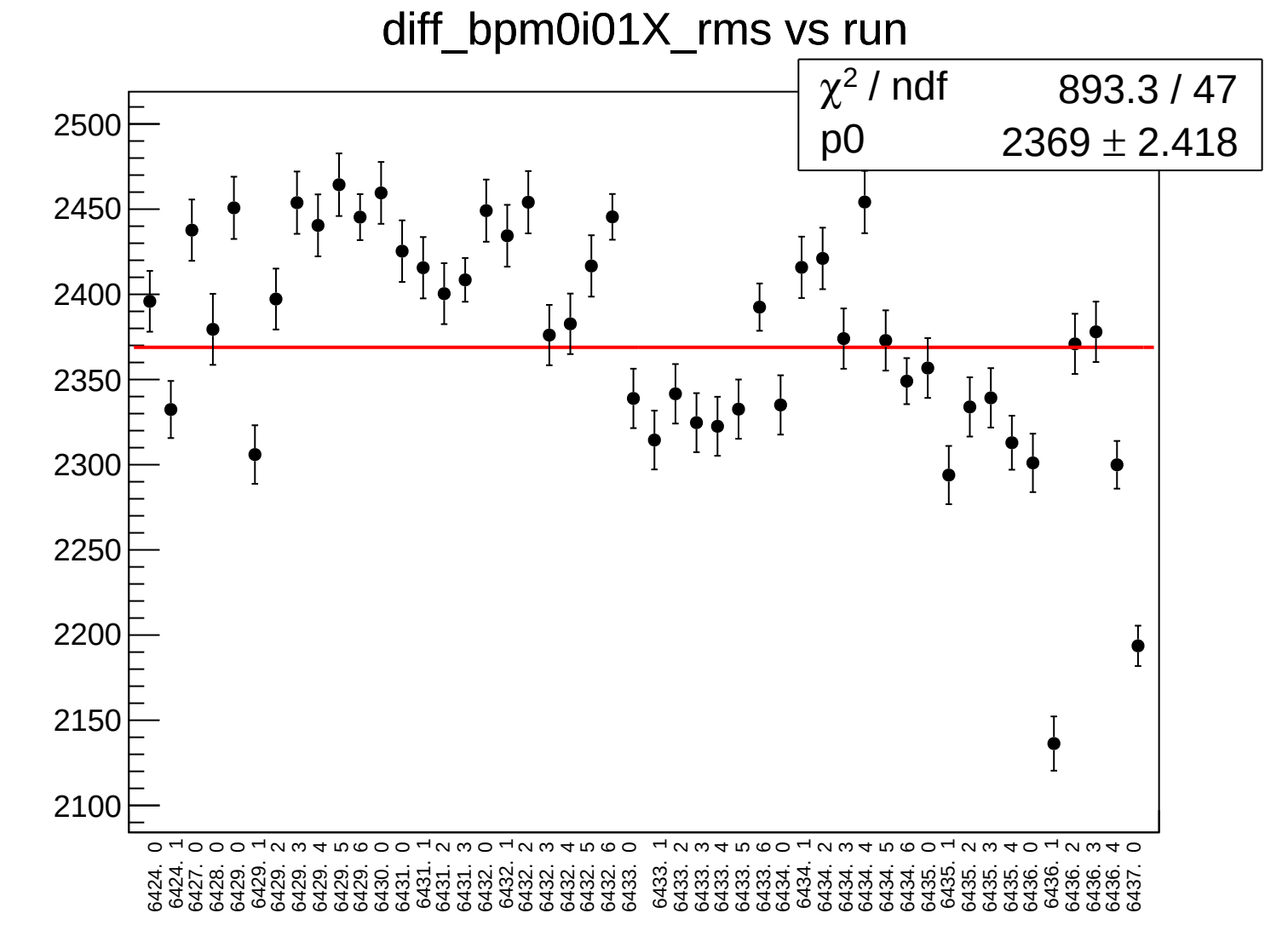

diff_cav4dY_mean vs run
χ² / ndf 48.4 / 47
p0 0.5375 ± 0.3676
pull
Entries 48
Mean 109.9
Std Dev 83.5

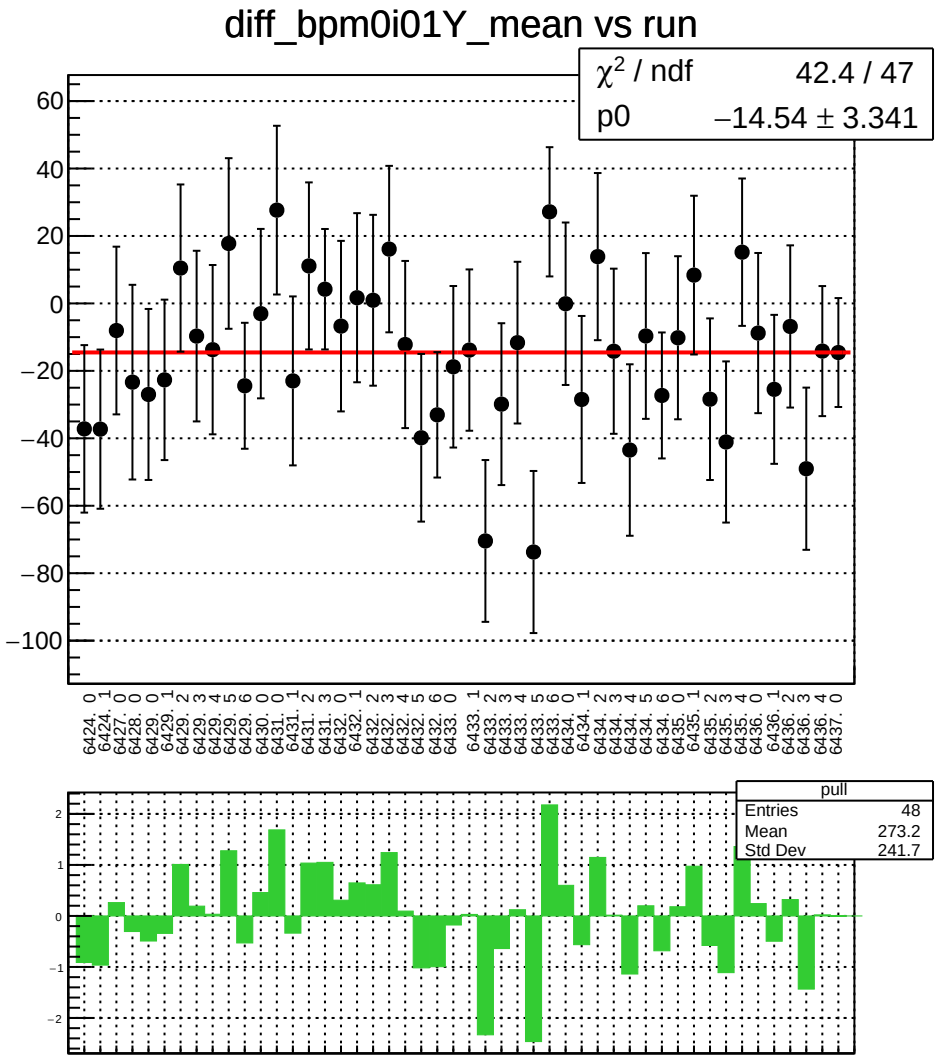

pull1D
Entries 48
Mean −0.01885
Std Dev 1.004

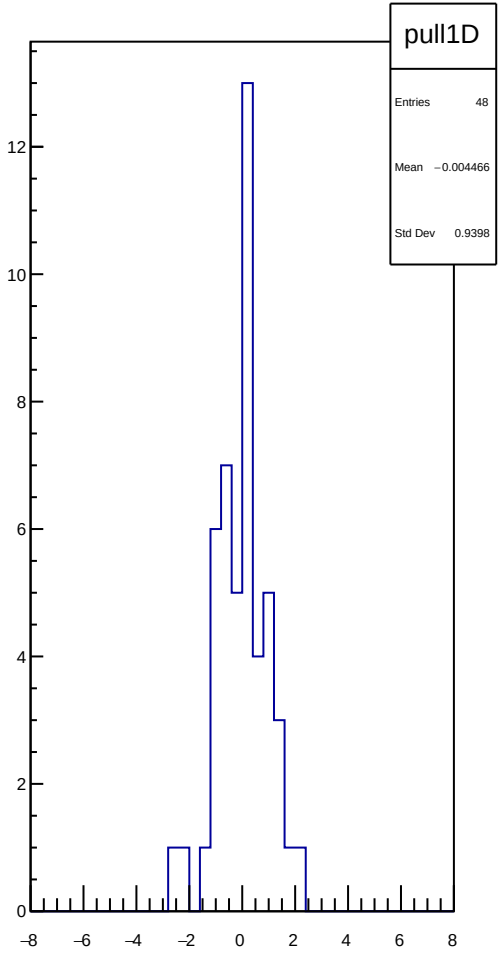

diff_cav4dY_rms vs run
χ² / ndf 2130 / 47
p0 254.5 ± 0.2599
300
290
280
270
260
250
240
230
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

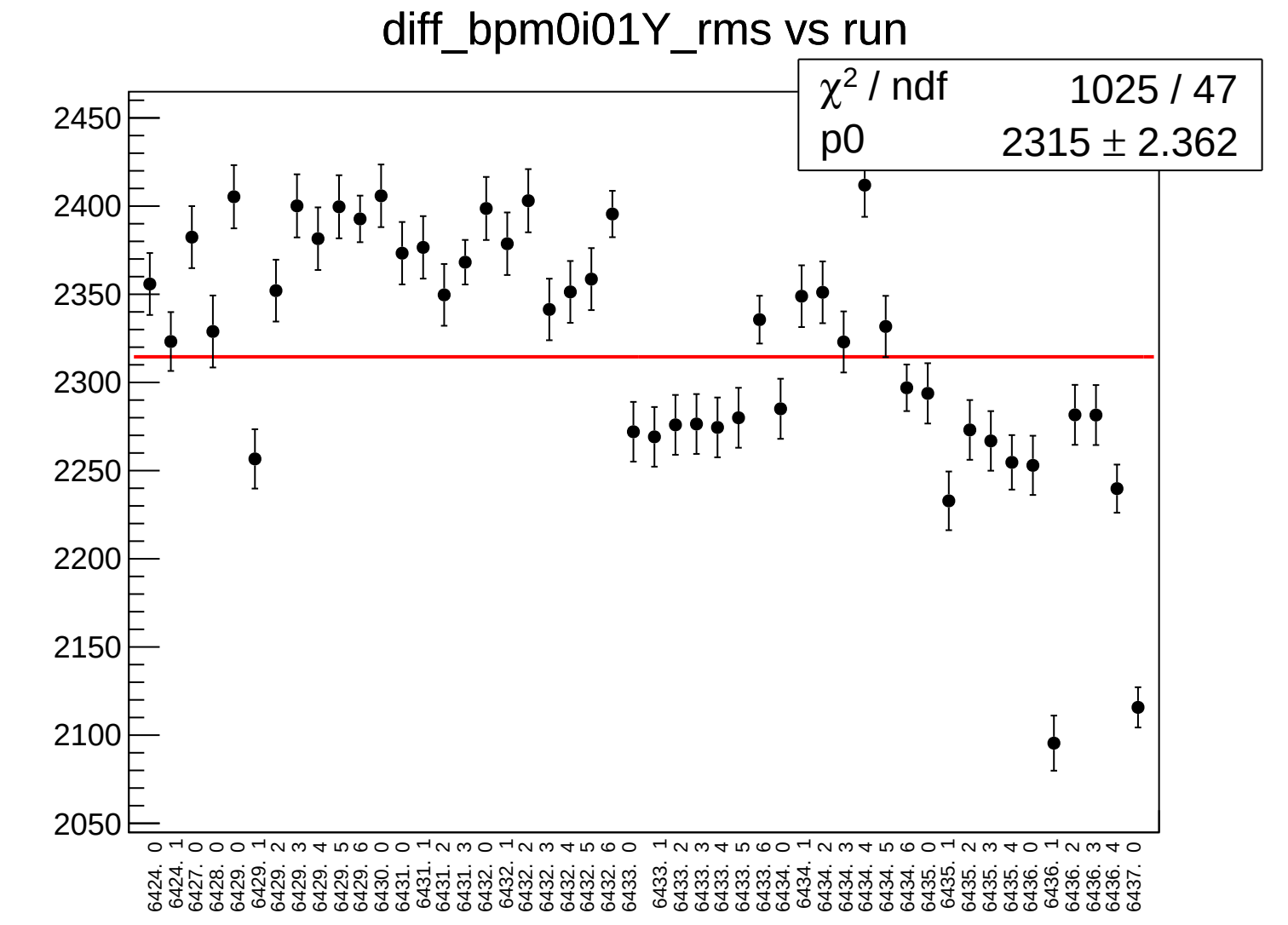

diff_bpm0i01X_mean vs run
χ² / ndf 40.7 / 47
p0 −22.96 ± 3.419
pull
Entries 48
Mean 204.2
Std Dev 177.2

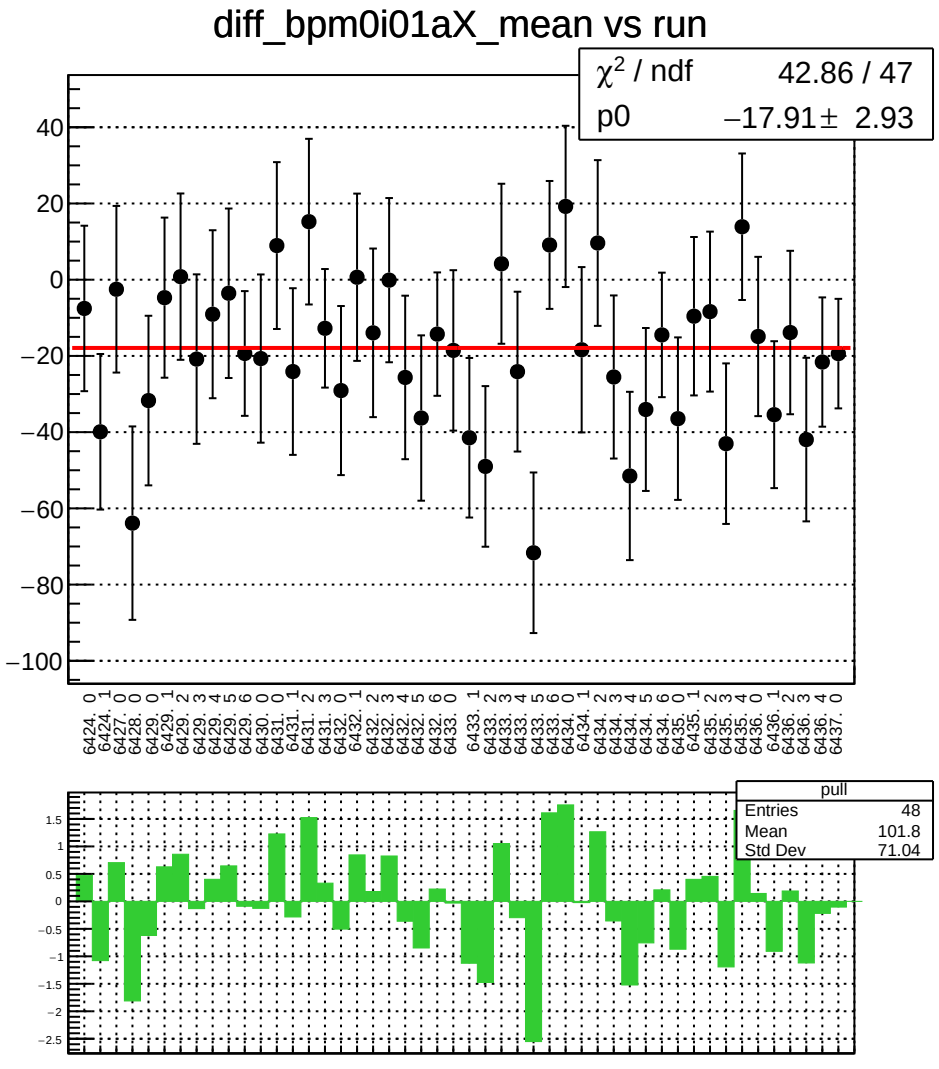

pull1D
Entries 48
Mean −0.009717
Std Dev 0.9207

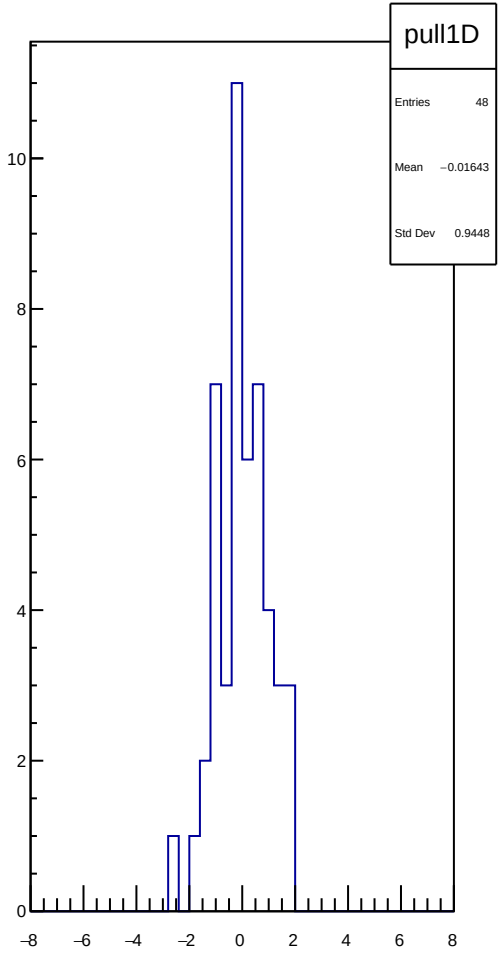

diff_bpm0i01X_rms vs run
χ² / ndf 893.3 / 47
p0 2369 ± 2.418
2500
2450
2400
2350
2300
2250
2200
2150
2100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

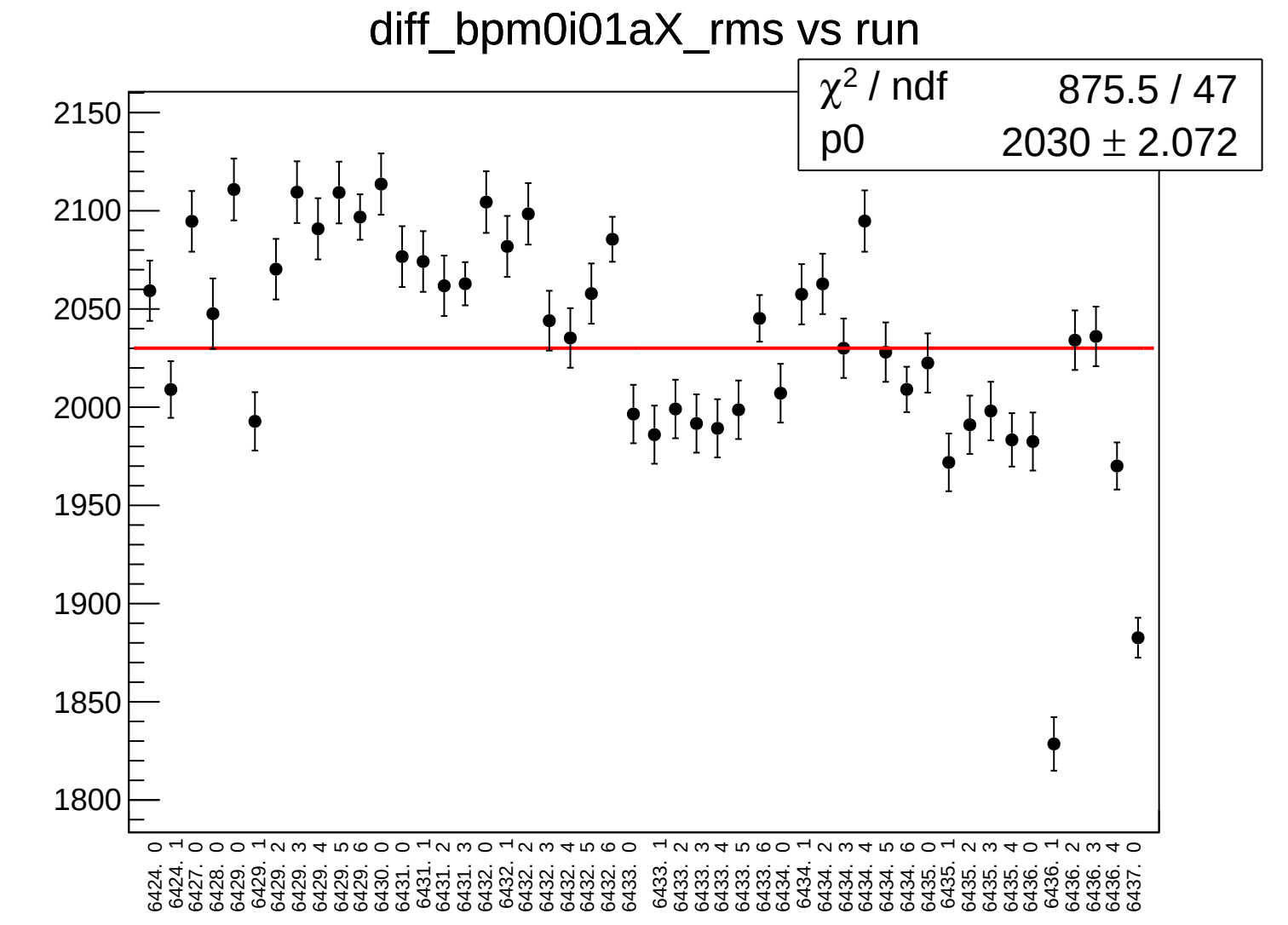

diff_bpm0i01Y_mean vs run
χ² / ndf 42.4 / 47
p0 −14.54 ± 3.341
pull
Entries 48
Mean 273.2
Std Dev 241.7

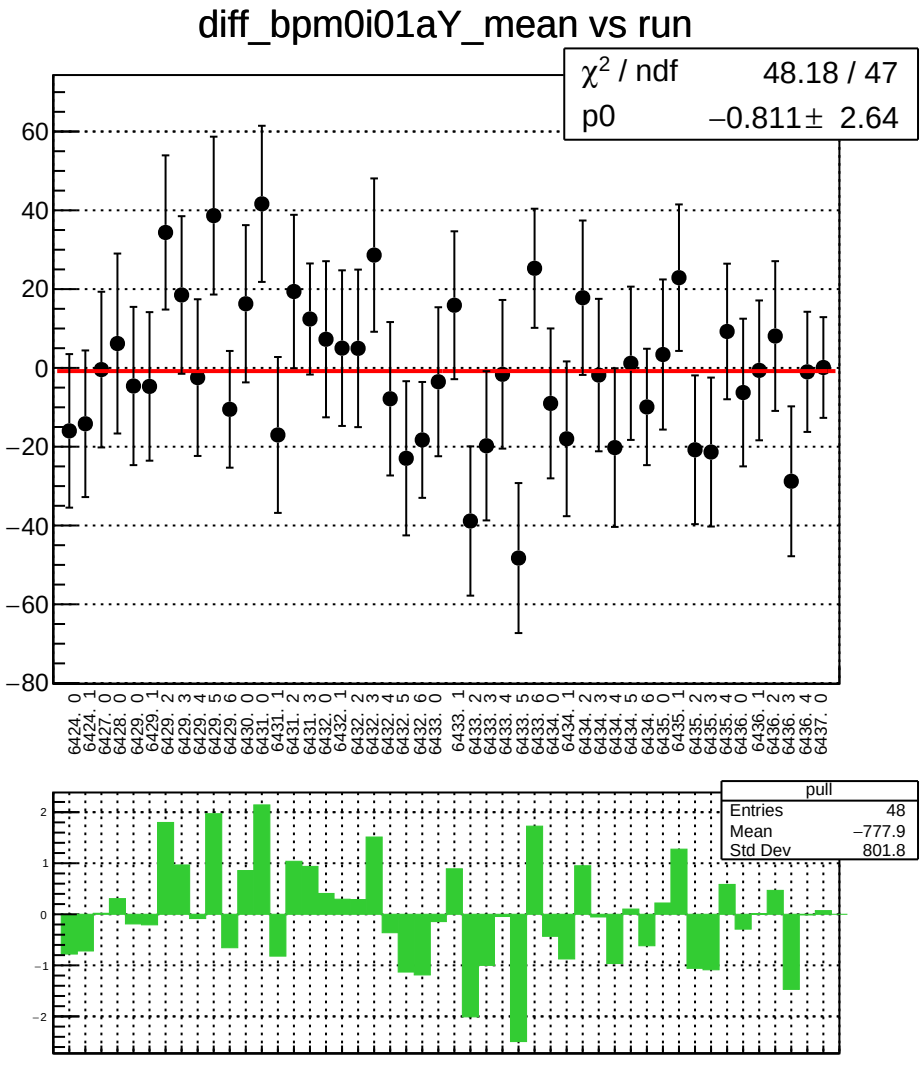

pull1D
Entries 48
Mean −0.004466
Std Dev 0.9398

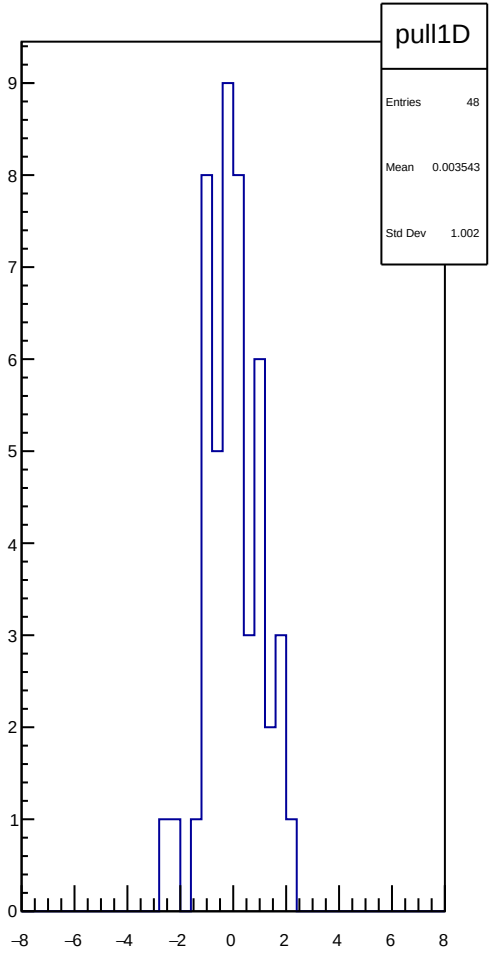

diff_bpm0i01Y_rms vs run
χ² / ndf 1025 / 47
p0 2315 ± 2.362
2450
2400
2350
2300
2250
2200
2150
2100
2050
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

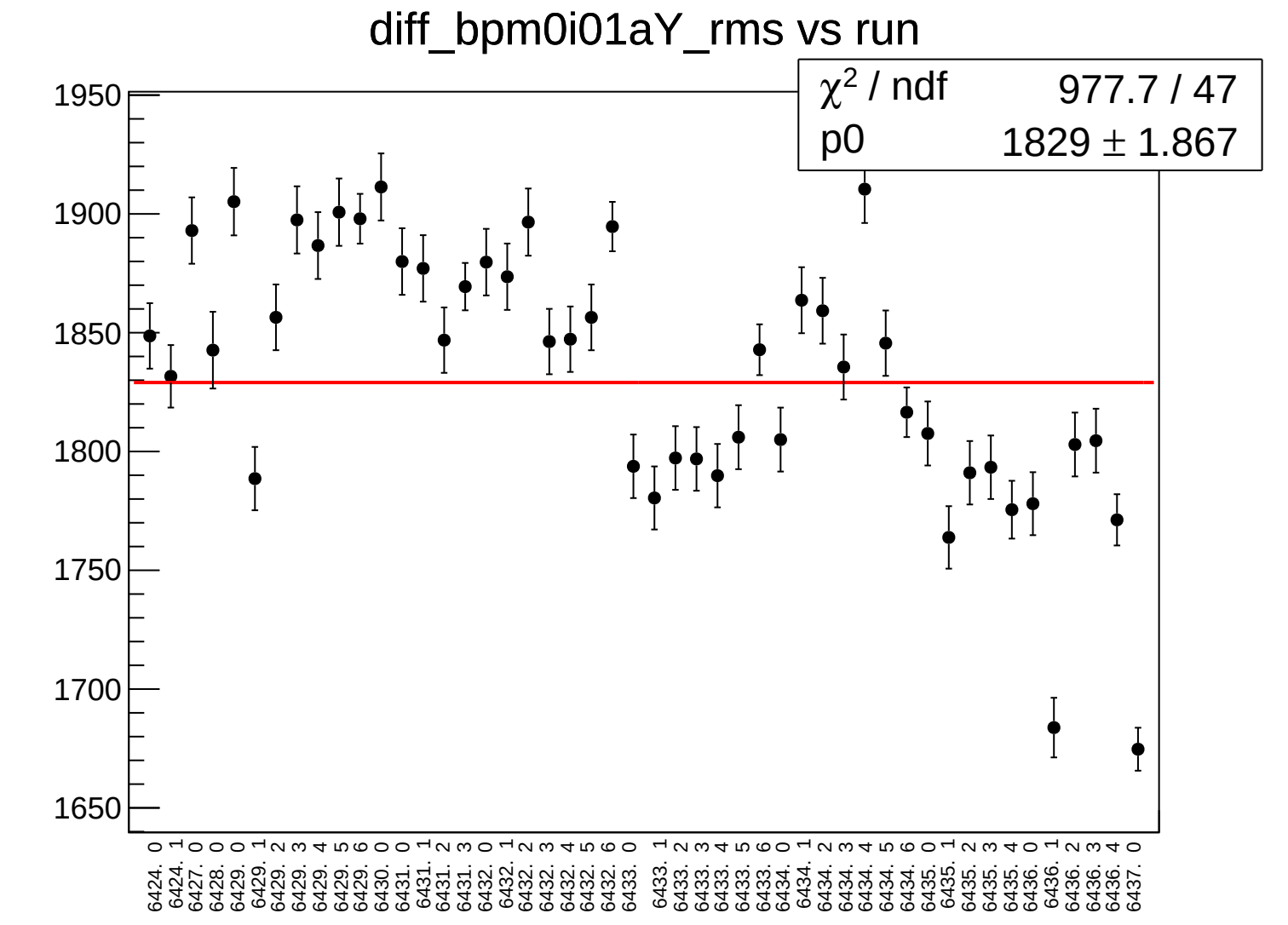

diff_bpm0i01aX_mean vs run
χ² / ndf 42.86 / 47
p0 −17.91 ± 2.93
pull
Entries 48
Mean 101.8
Std Dev 71.04

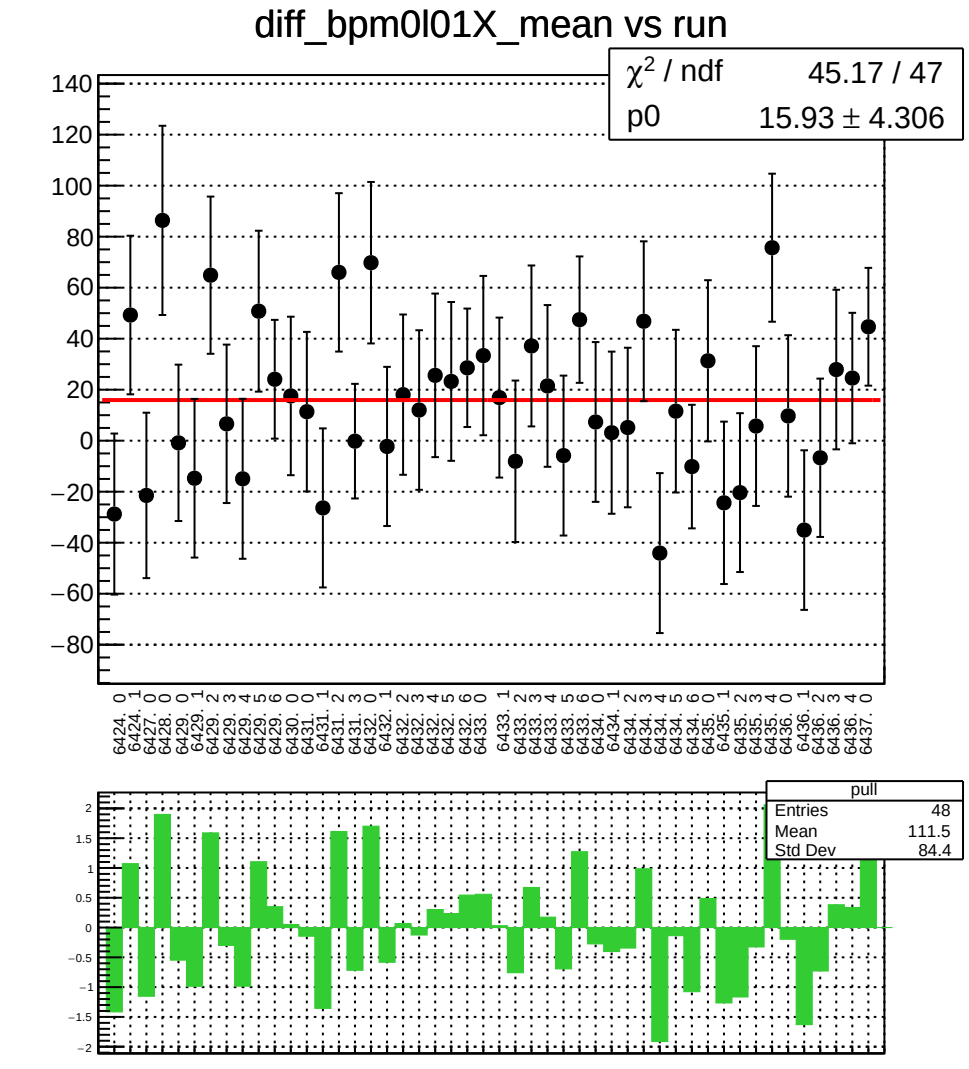

pull1D
Entries 48
Mean −0.01643
Std Dev 0.9448

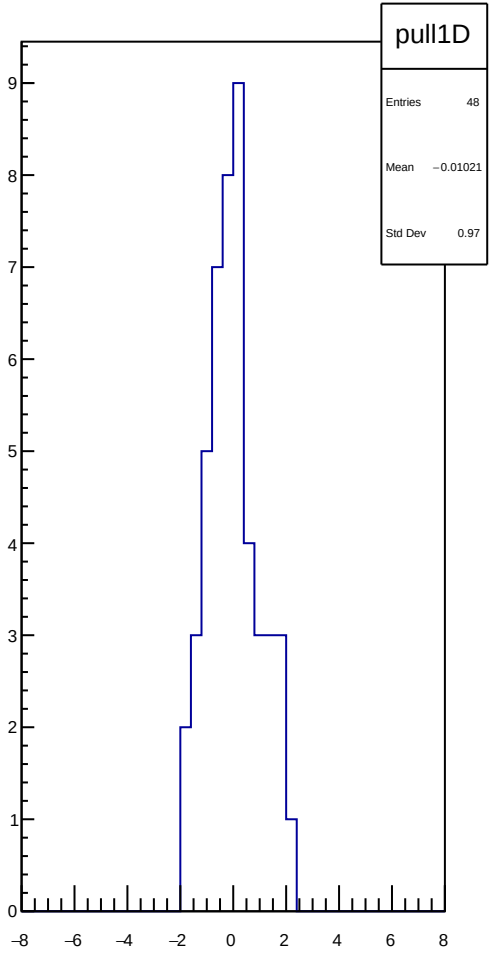

diff_bpm0i01aX_rms vs run
χ² / ndf 875.5 / 47
p0 2030 ± 2.072
2150
2100
2050
2000
1950
1900
1850
1800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

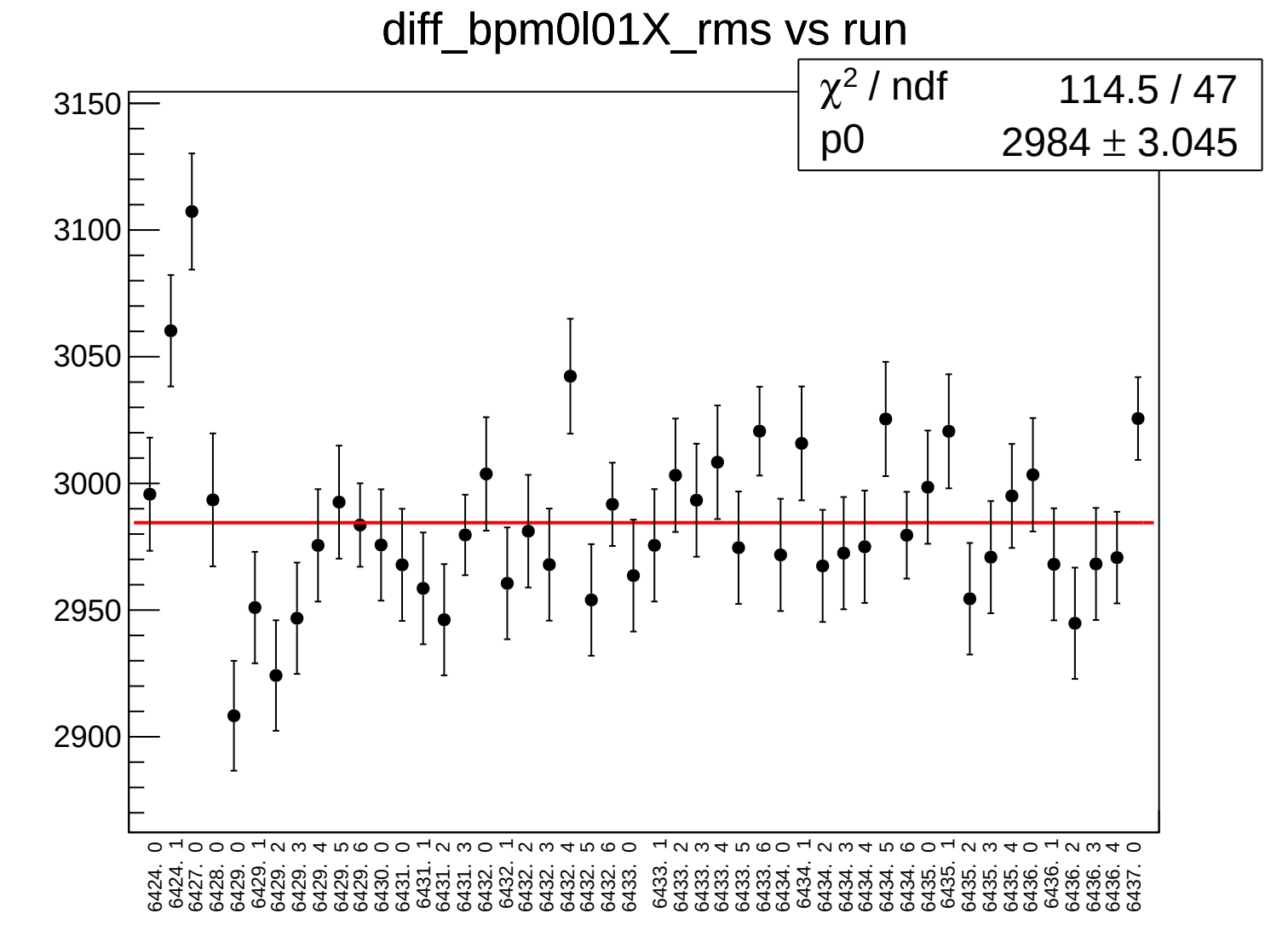

diff_bpm0i01aY_mean vs run
χ² / ndf 48.18 / 47
p0 −0.811 ± 2.64
pull
Entries 48
Mean −777.9
Std Dev 801.8

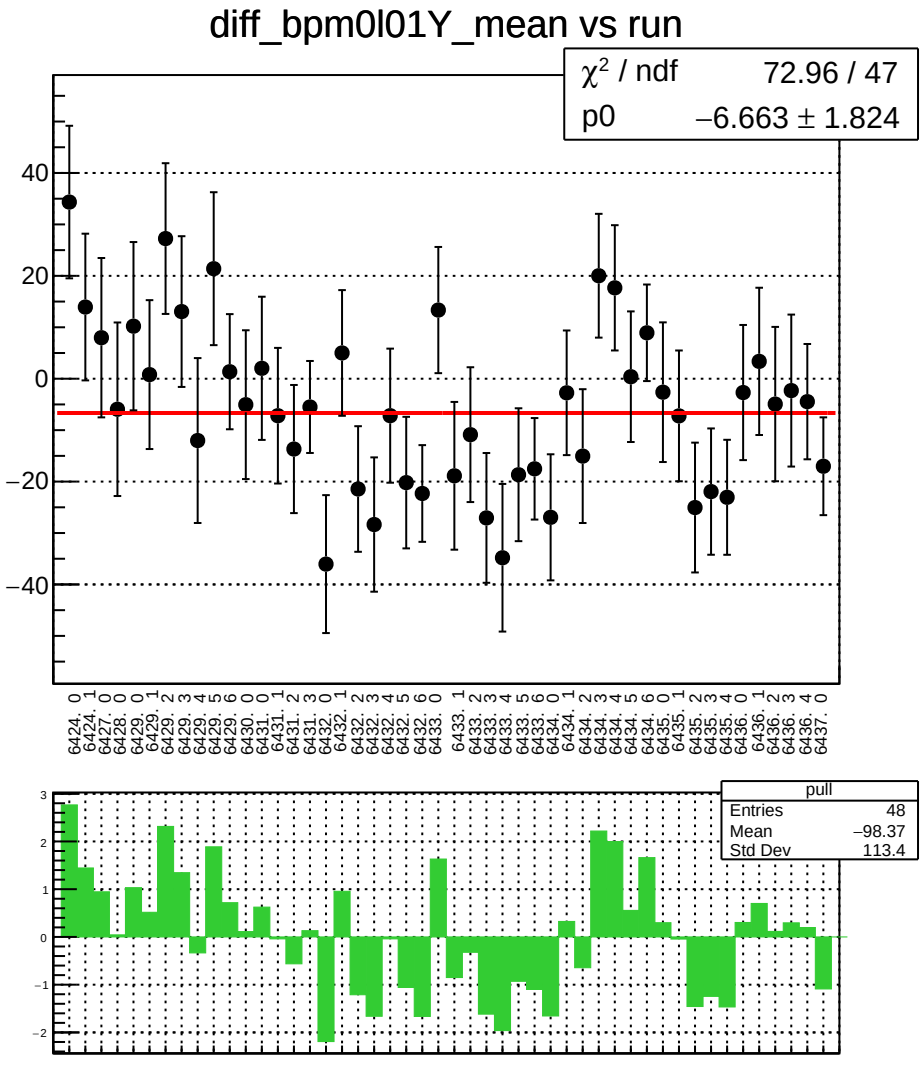

pull1D
Entries 48
Mean 0.003543
Std Dev 1.002

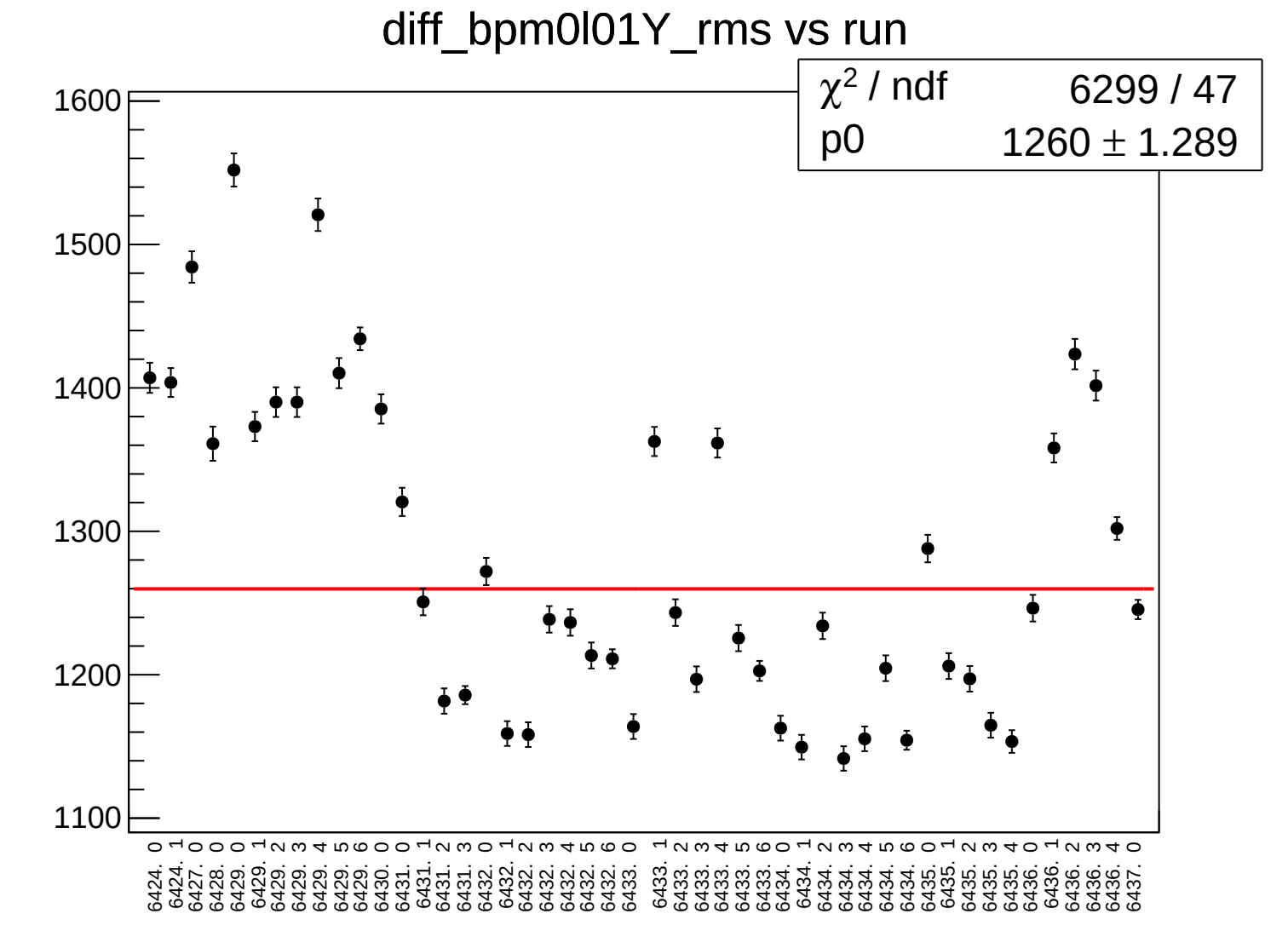

diff_bpm0i01aY_rms vs run
χ² / ndf 977.7 / 47
p0 1829 ± 1.867
1950
1900
1850
1800
1750
1700
1650
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

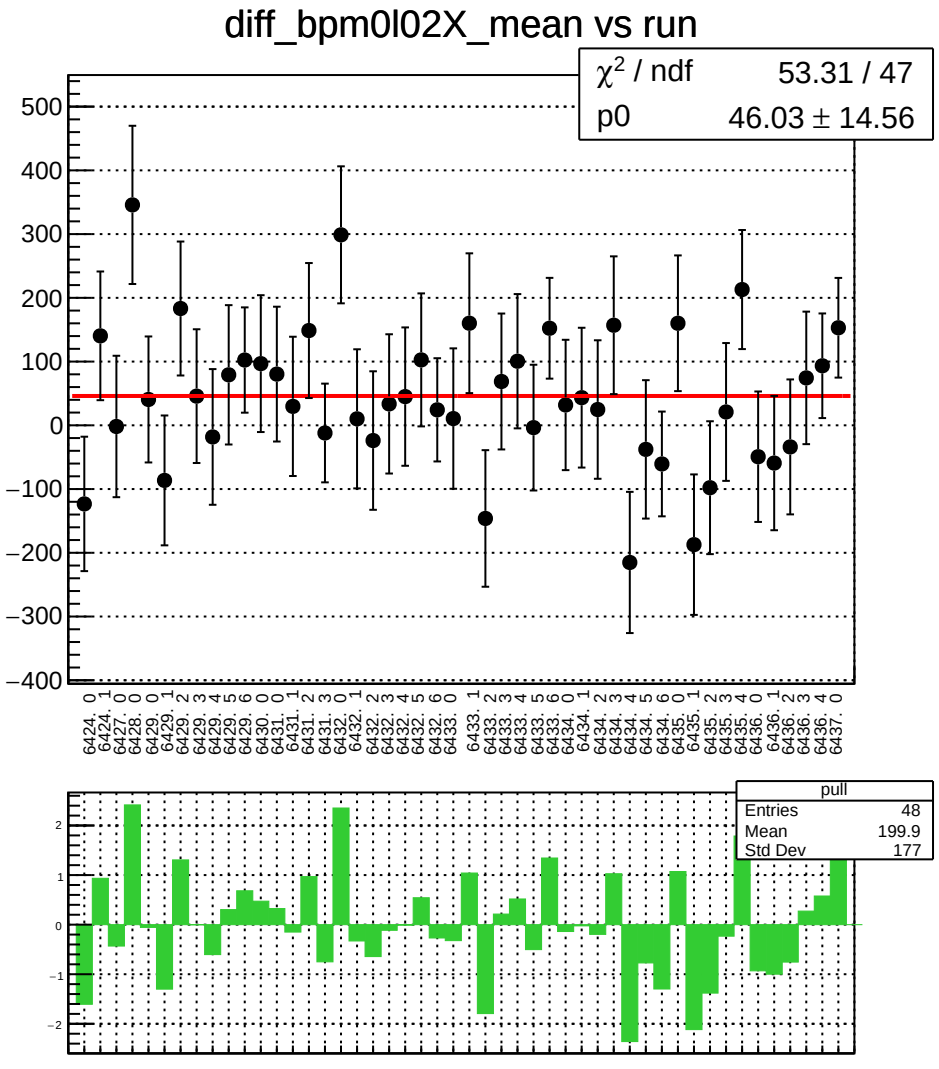

diff_bpm0l01X_mean vs run
χ^2 / ndf 45.17 / 47
p0 15.93 ± 4.306
pull
Entries 48
Mean 111.5
Std Dev 84.4

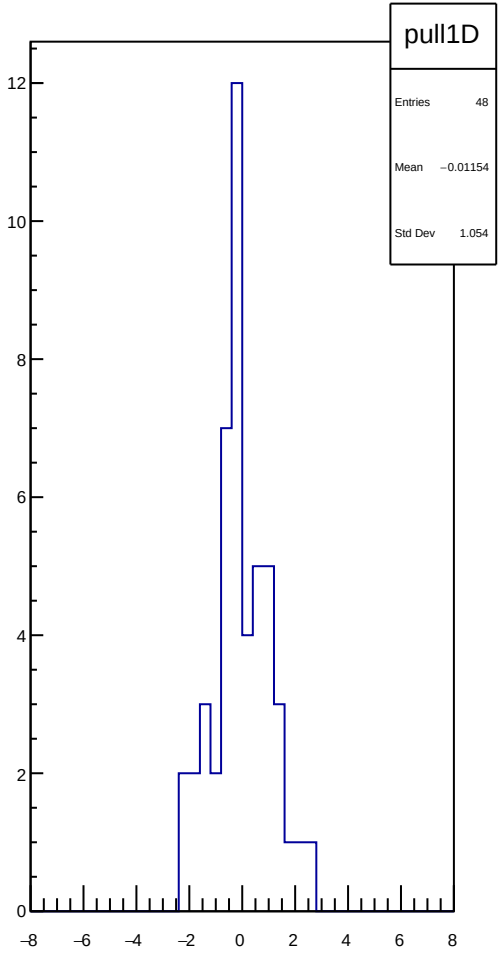

pull1D
Entries 48
Mean −0.01021
Std Dev 0.97

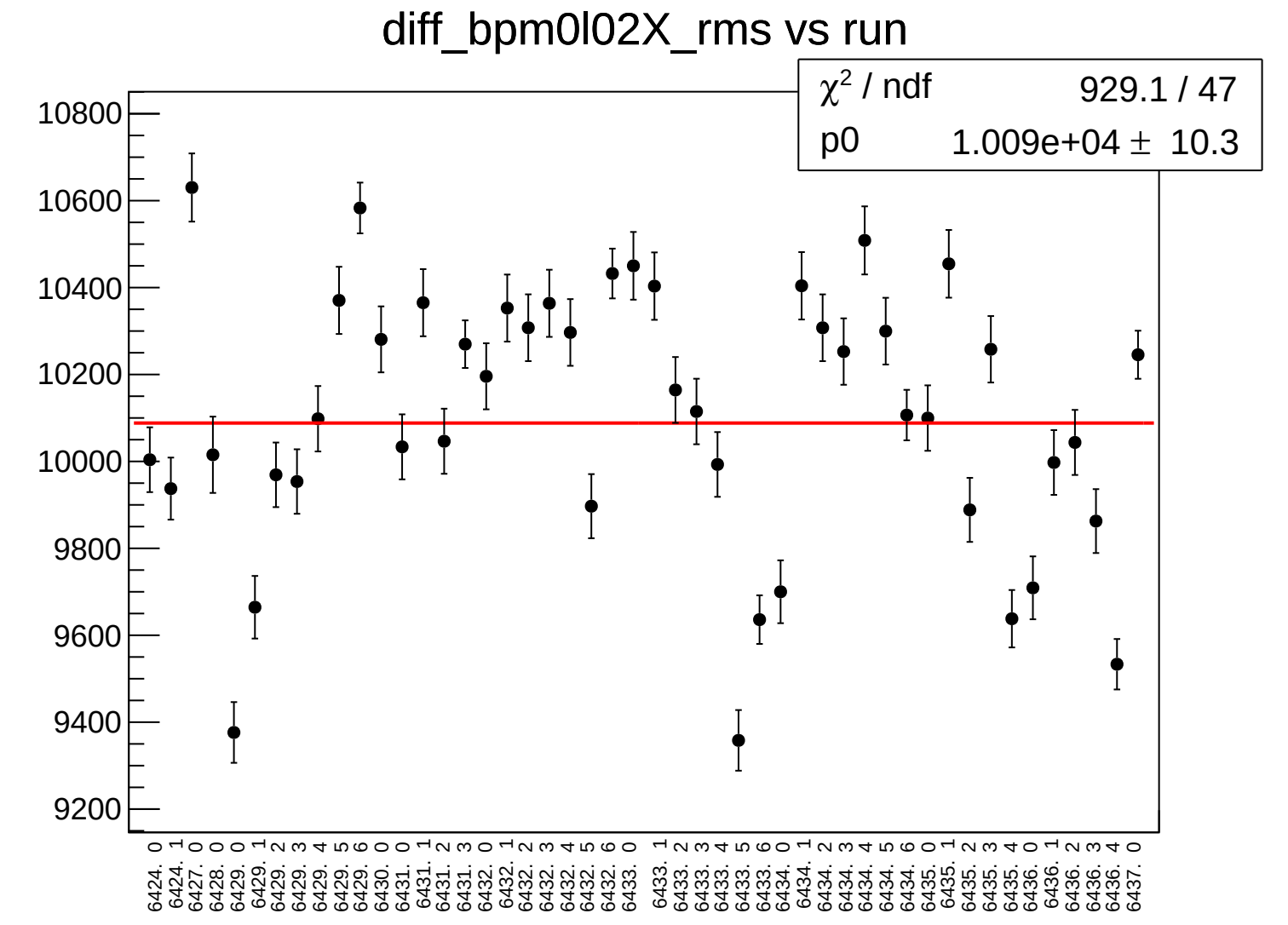

diff_bpm0l01X_rms vs run
χ² / ndf 114.5 / 47
p0 2984 ± 3.045
3150
3100
3050
3000
2950
2900
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

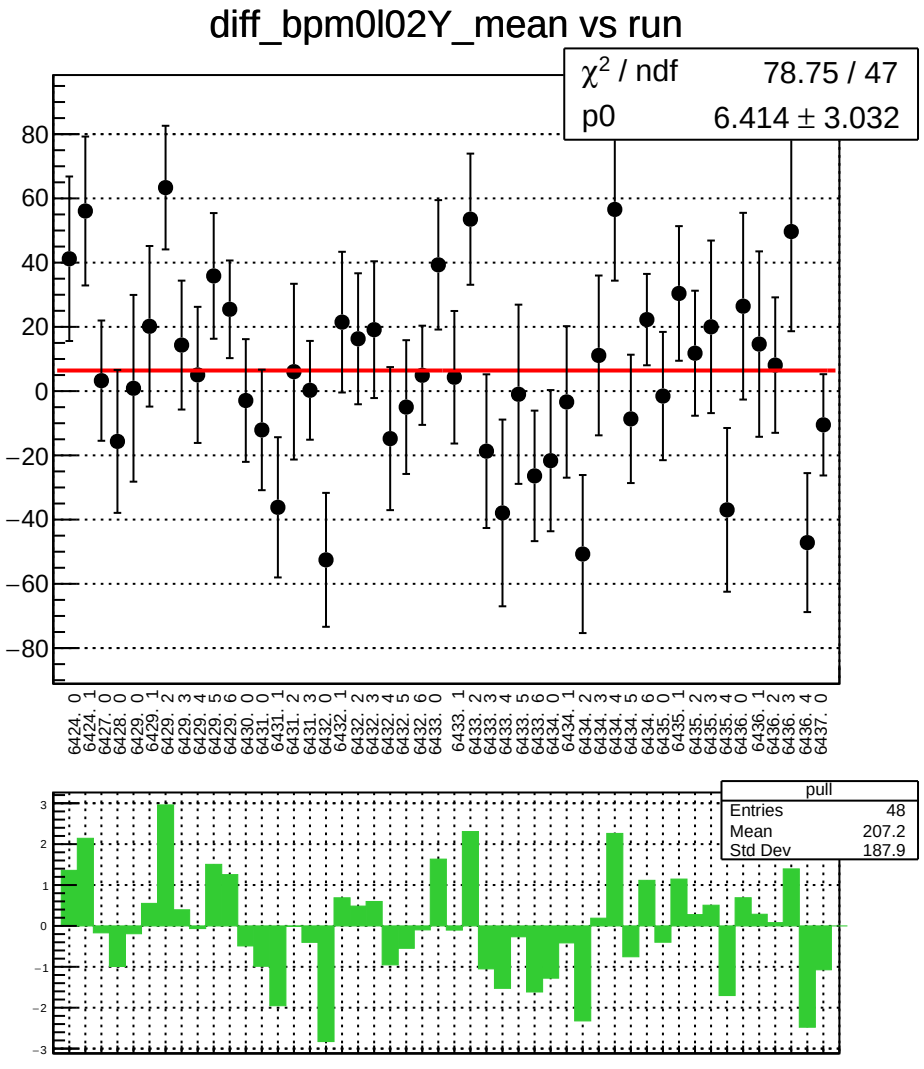

diff_bpm0l01Y_mean vs run
χ² / ndf 72.96 / 47
p0 −6.663 ± 1.824
40
20
0
−20
−40
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −98.37
Std Dev 113.4
3
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.04141
Std Dev 1.232
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

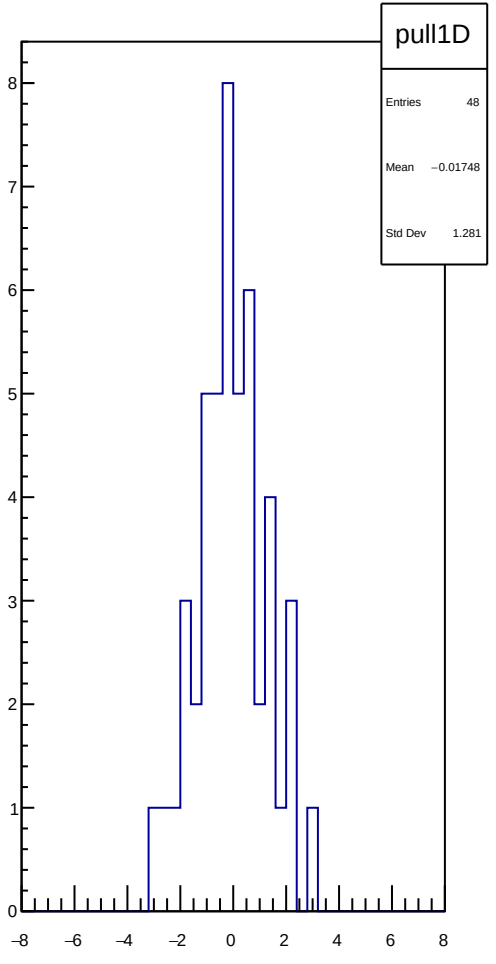

diff_bpm0l01Y_rms vs run
χ² / ndf 6299 / 47
p0 1260 ± 1.289
1600
1500
1400
1300
1200
1100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

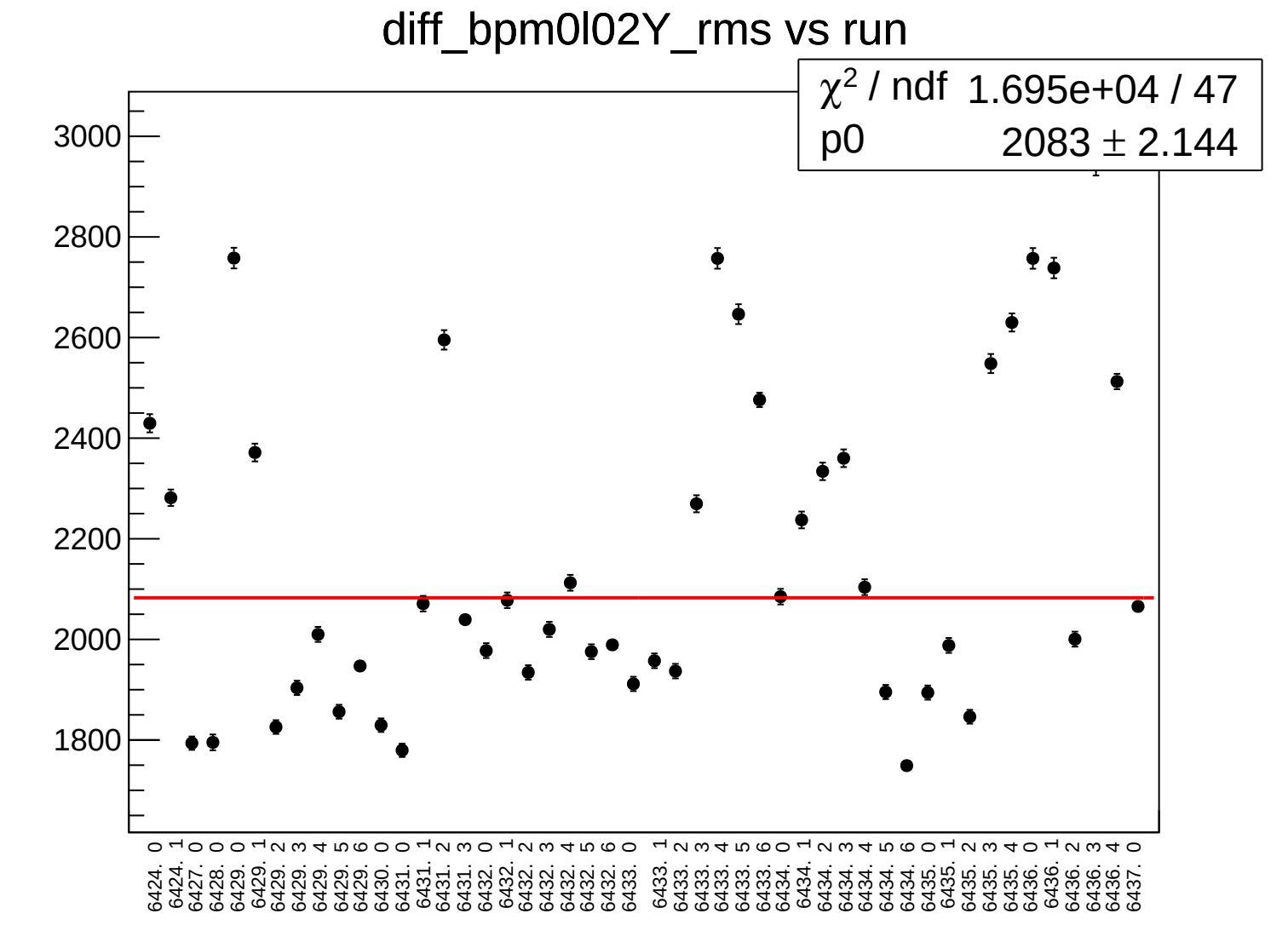

diff_bpm0l02X_mean vs run
χ² / ndf 53.31 / 47
p0 46.03 ± 14.56
pull
Entries 48
Mean 199.9
Std Dev 177

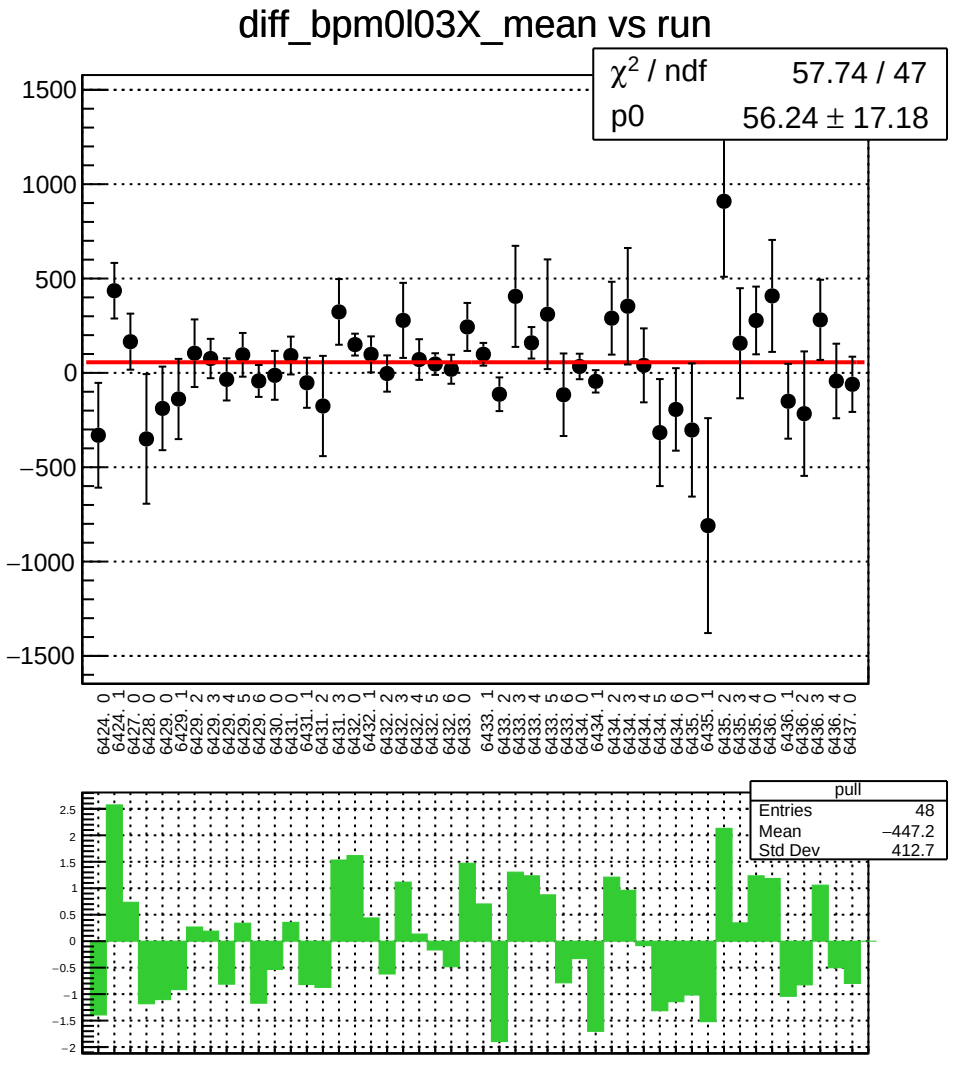

pull1D
Entries 48
Mean −0.01154
Std Dev 1.054

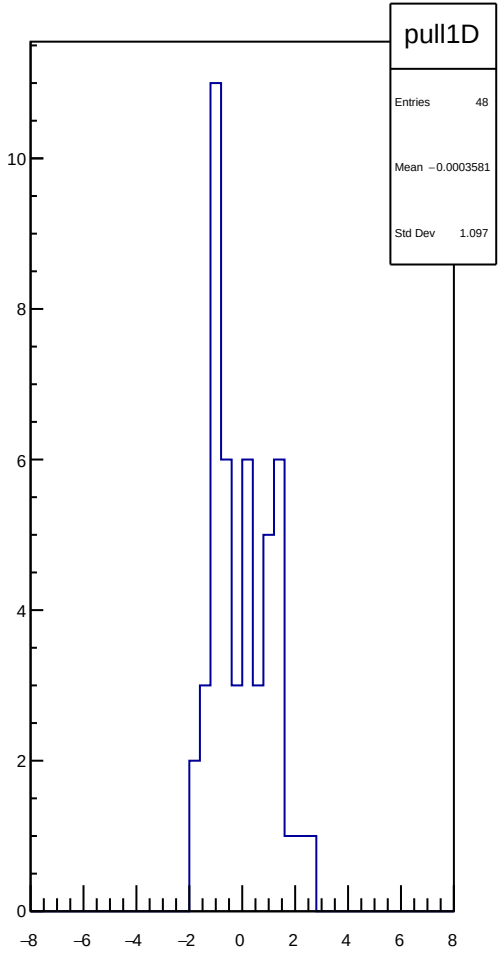

diff_bpm0l02X_rms vs run
χ² / ndf 929.1 / 47
p0 1.009e+04 ± 10.3
10800
10600
10400
10200
10000
9800
9600
9400
9200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

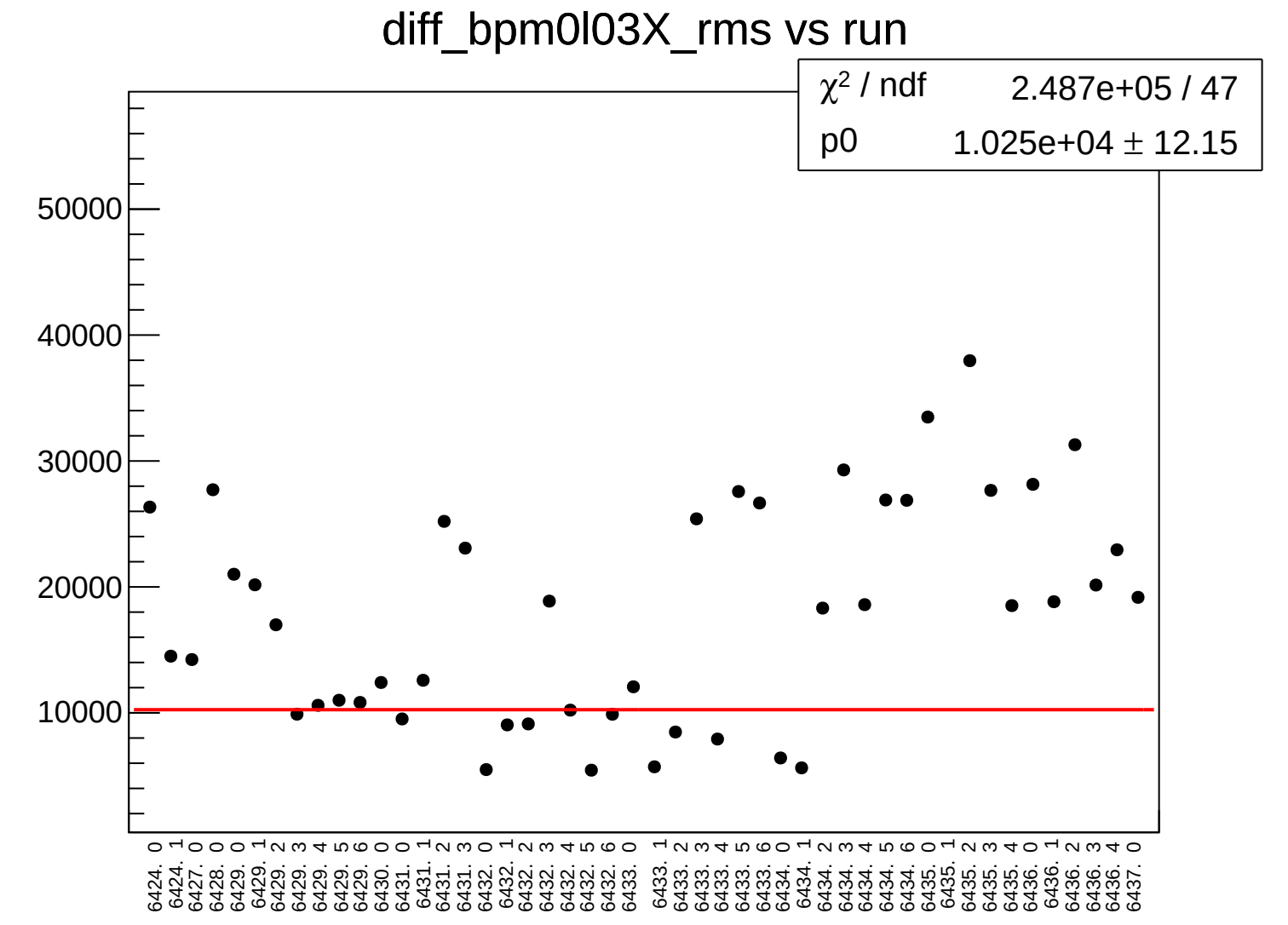

diff_bpm0l02Y_mean vs run
χ^2 / ndf 78.75 / 47
p0 6.414 ± 3.032
pull
Entries 48
Mean 207.2
Std Dev 187.9

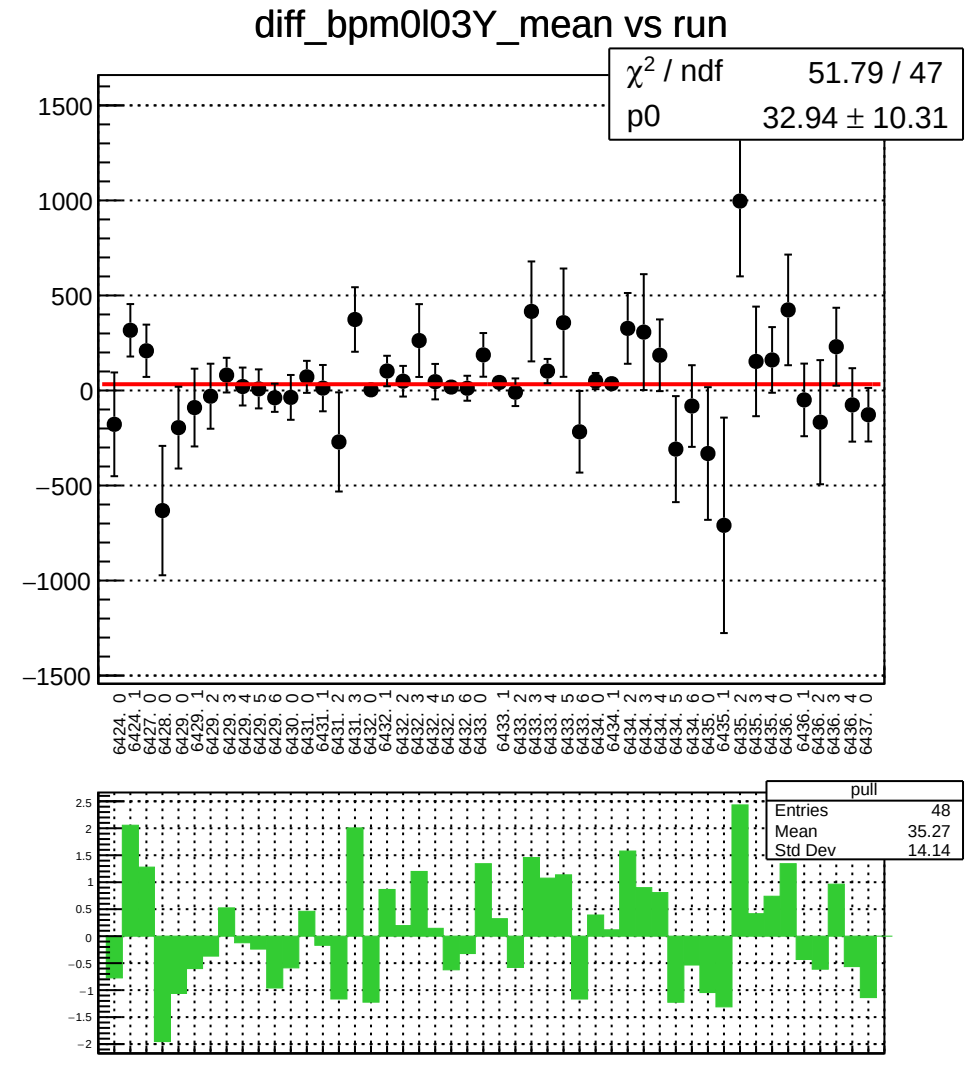

pull1D
Entries 48
Mean −0.01748
Std Dev 1.281

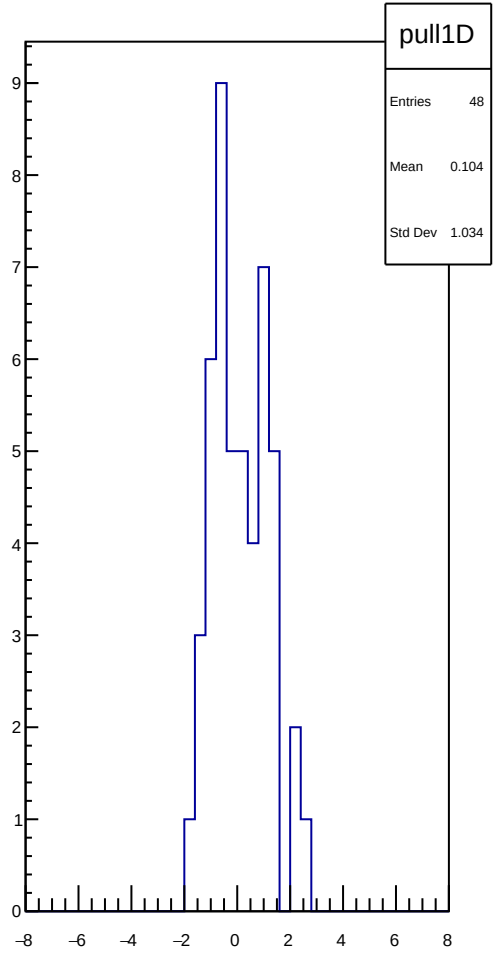

diff_bpm0l02Y_rms vs run
χ² / ndf 1.695e+04 / 47
p0 2083 ± 2.144
3000
2800
2600
2400
2200
2000
1800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

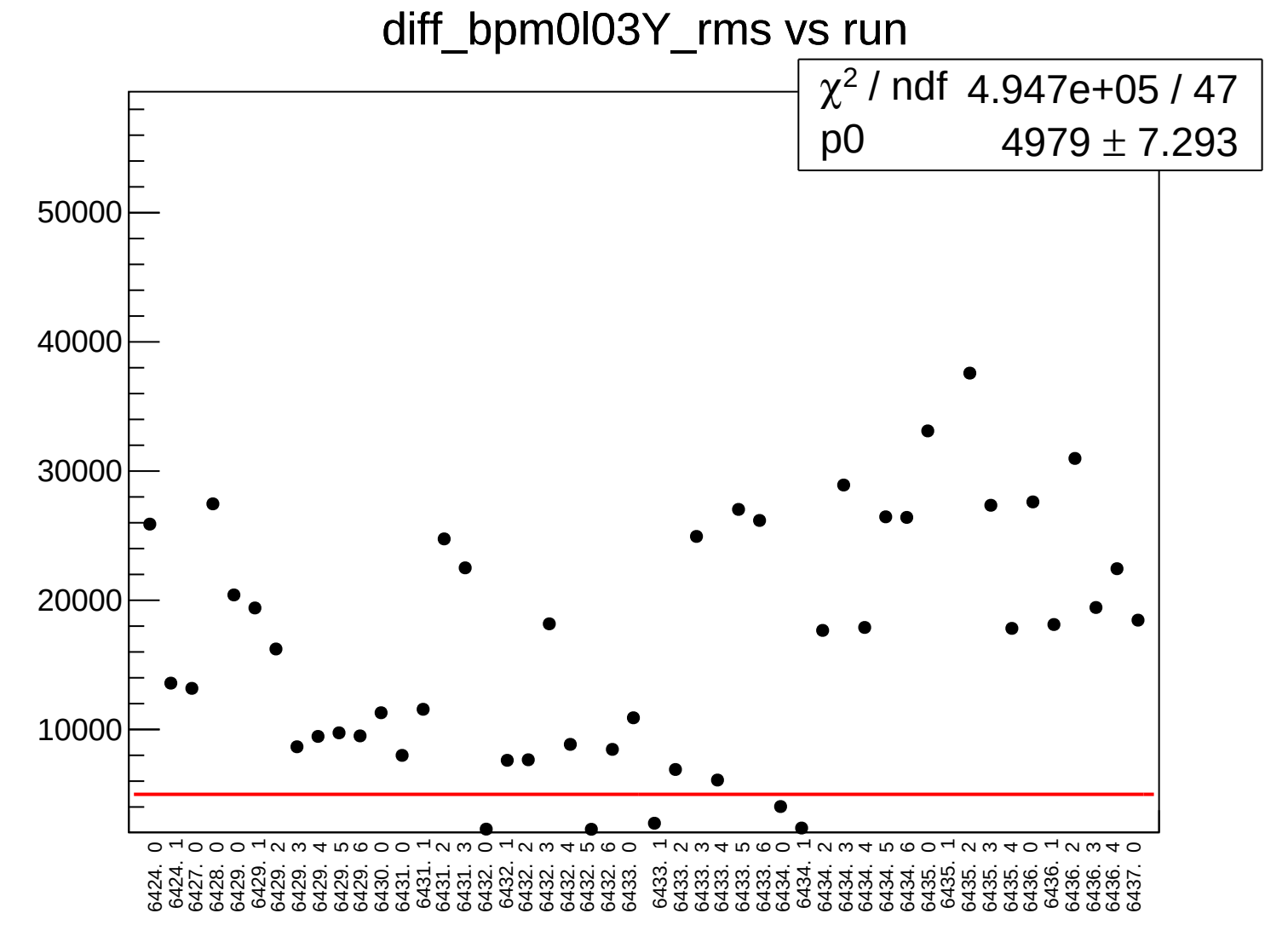

diff_bpm0l03X_mean vs run
χ² / ndf 57.74 / 47
p0 56.24 ± 17.18
pull
Entries 48
Mean −447.2
Std Dev 412.7

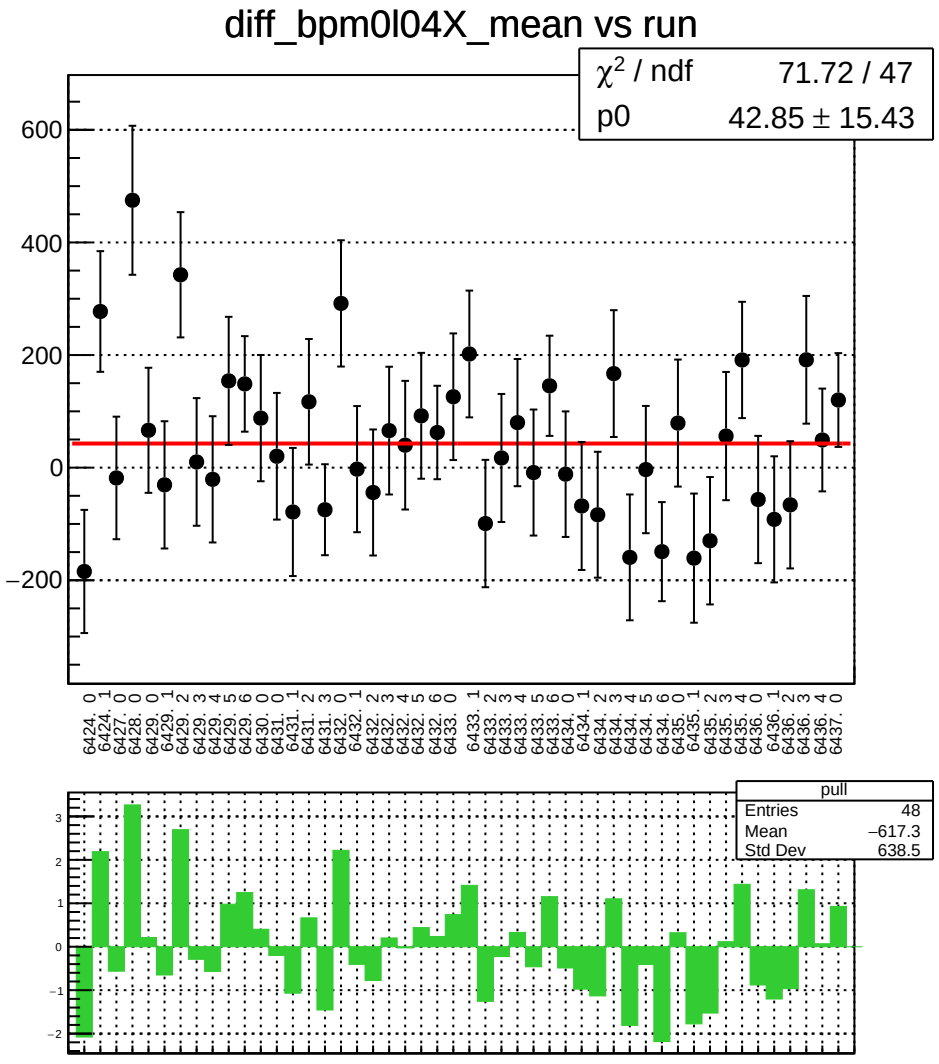

pull1D
Entries 48
Mean −0.0003581
Std Dev 1.097

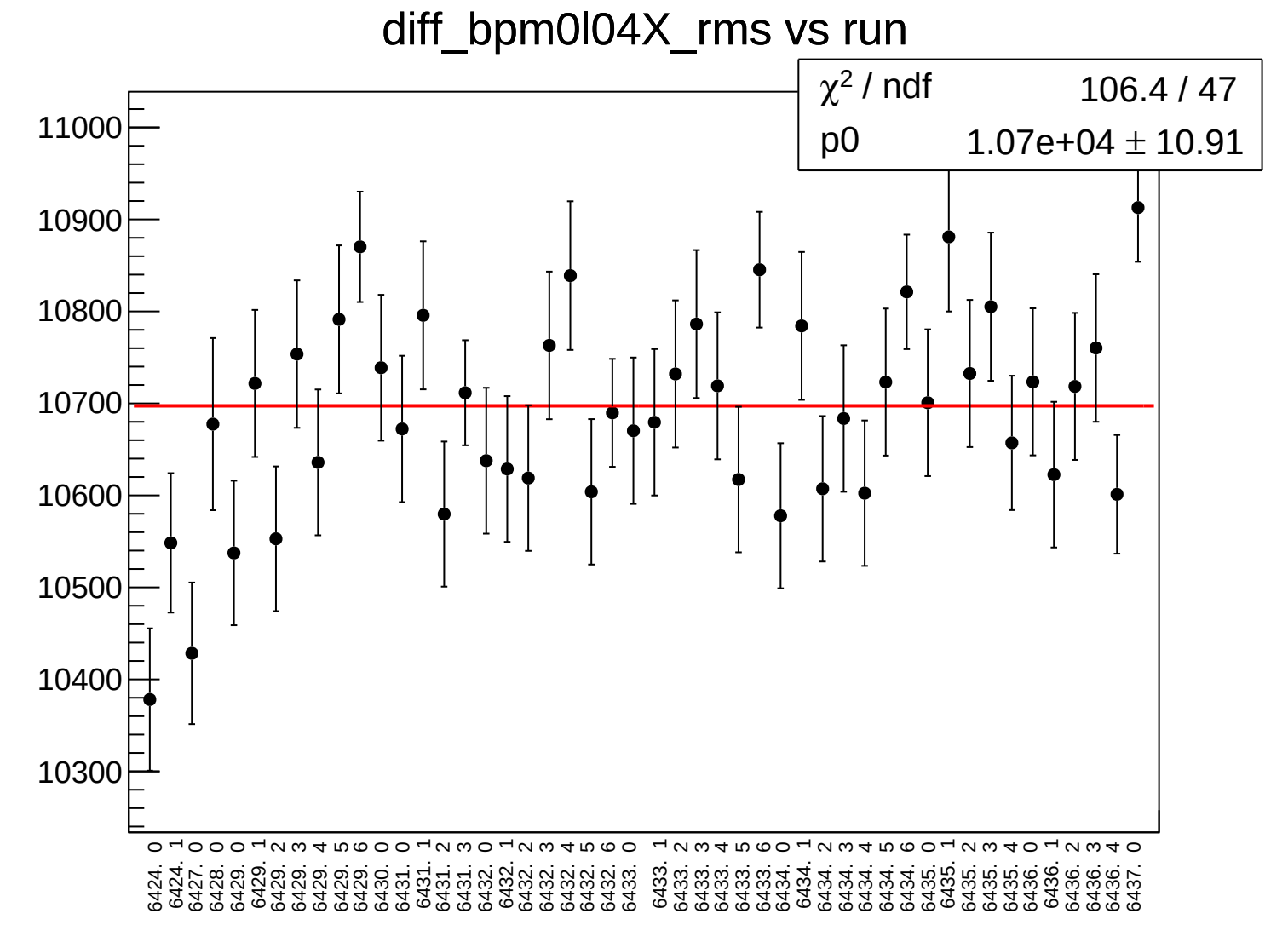

diff_bpm0l03X_rms vs run
χ² / ndf 2.487e+05 / 47
p0 1.025e+04 ± 12.15
50000
40000
30000
20000
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

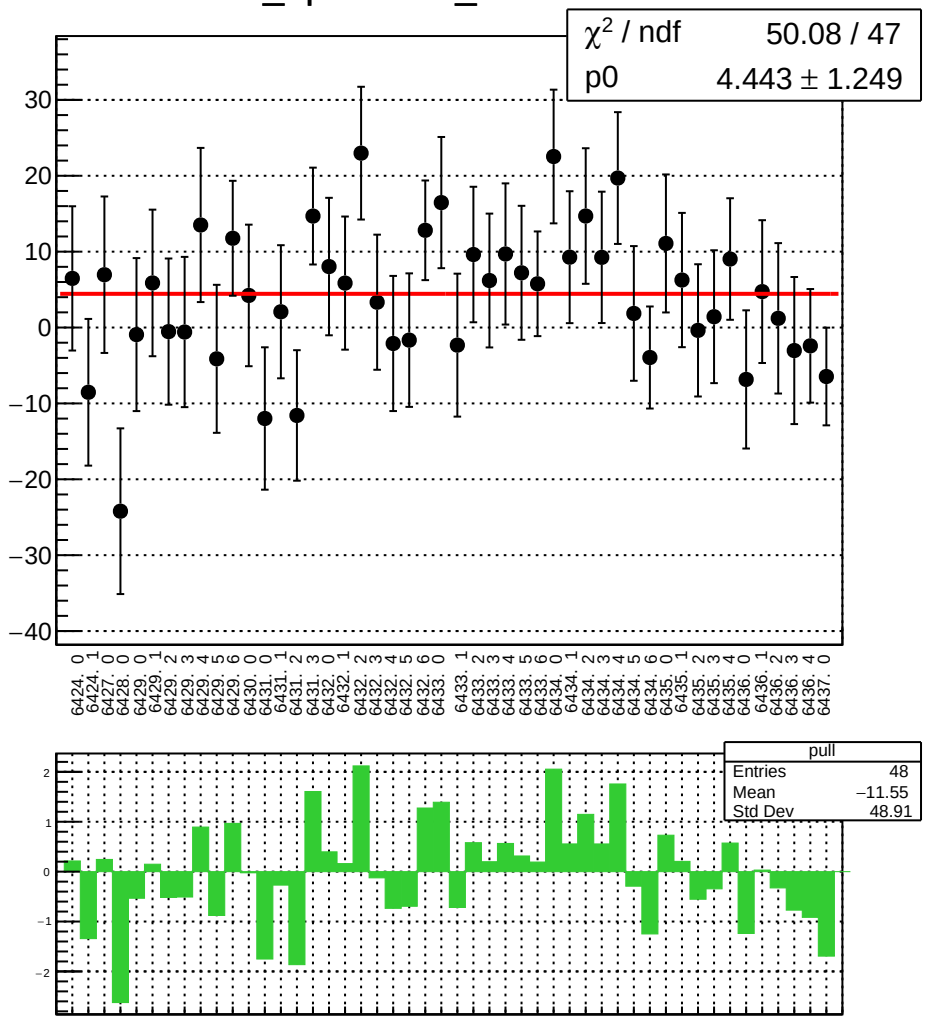

diff_bpm0l03Y_mean vs run
χ² / ndf 51.79 / 47
p0 32.94 ± 10.31
pull
Entries 48
Mean 35.27
Std Dev 14.14

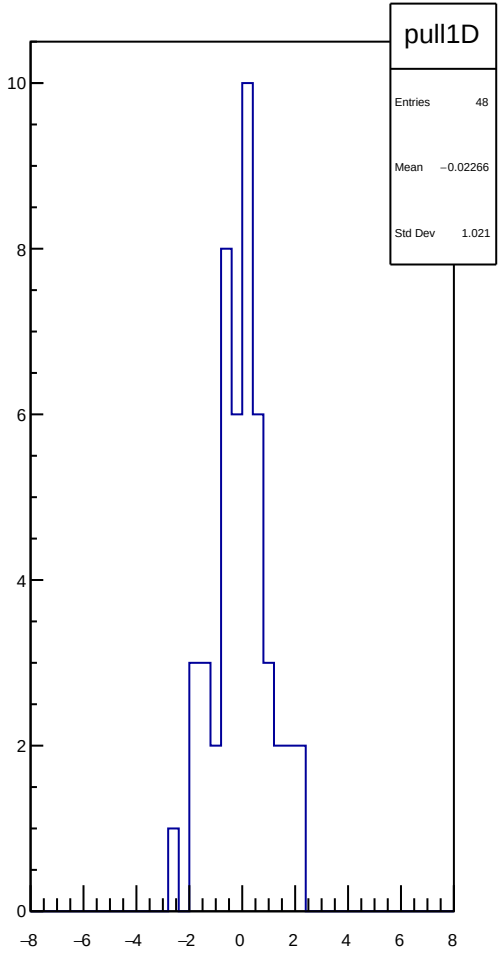

pull1D
Entries 48
Mean 0.104
Std Dev 1.034

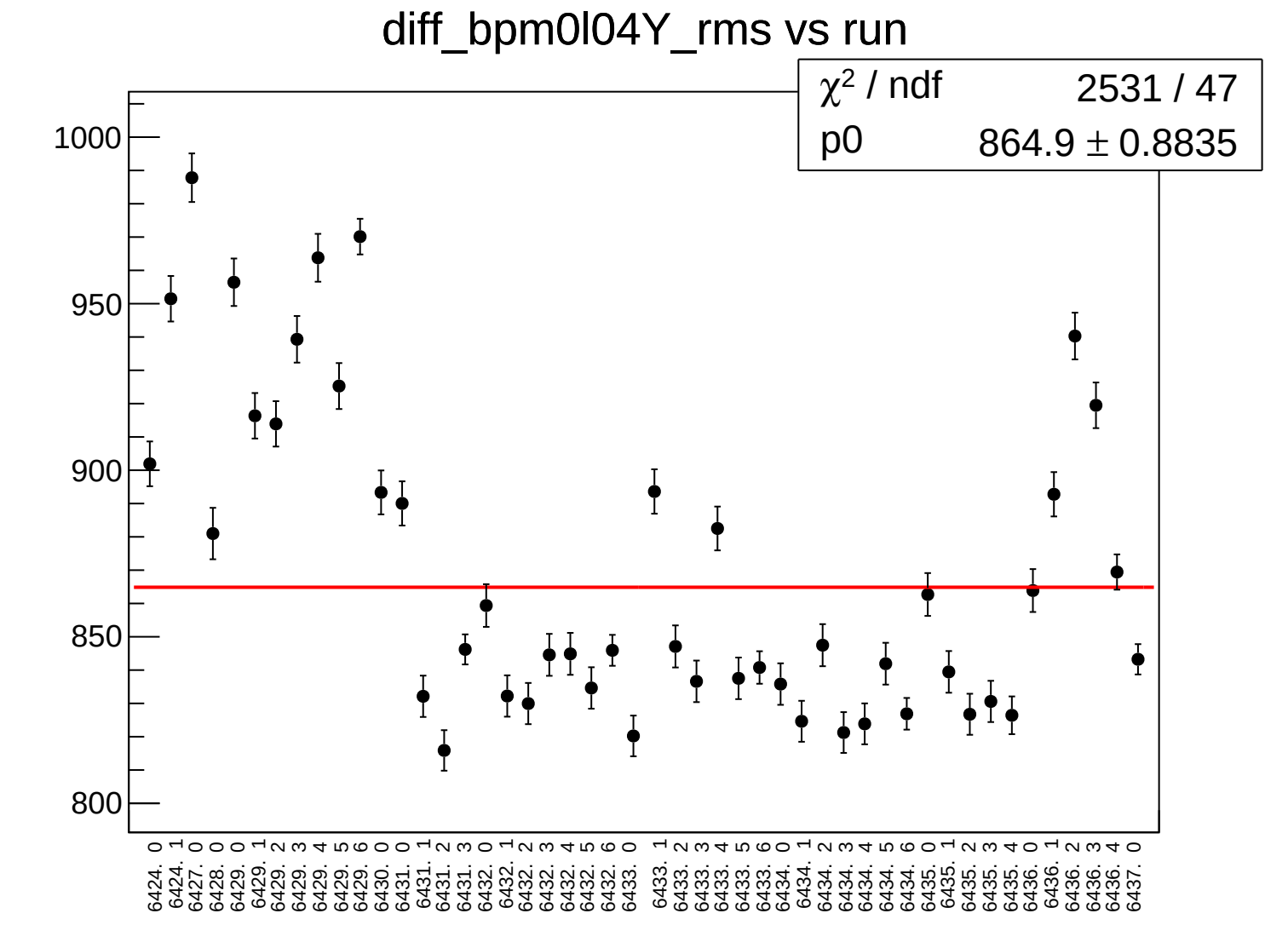

diff_bpm0l03Y_rms vs run
χ² / ndf 4.947e+05 / 47
p0 4979 ± 7.293
50000
40000
30000
20000
10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

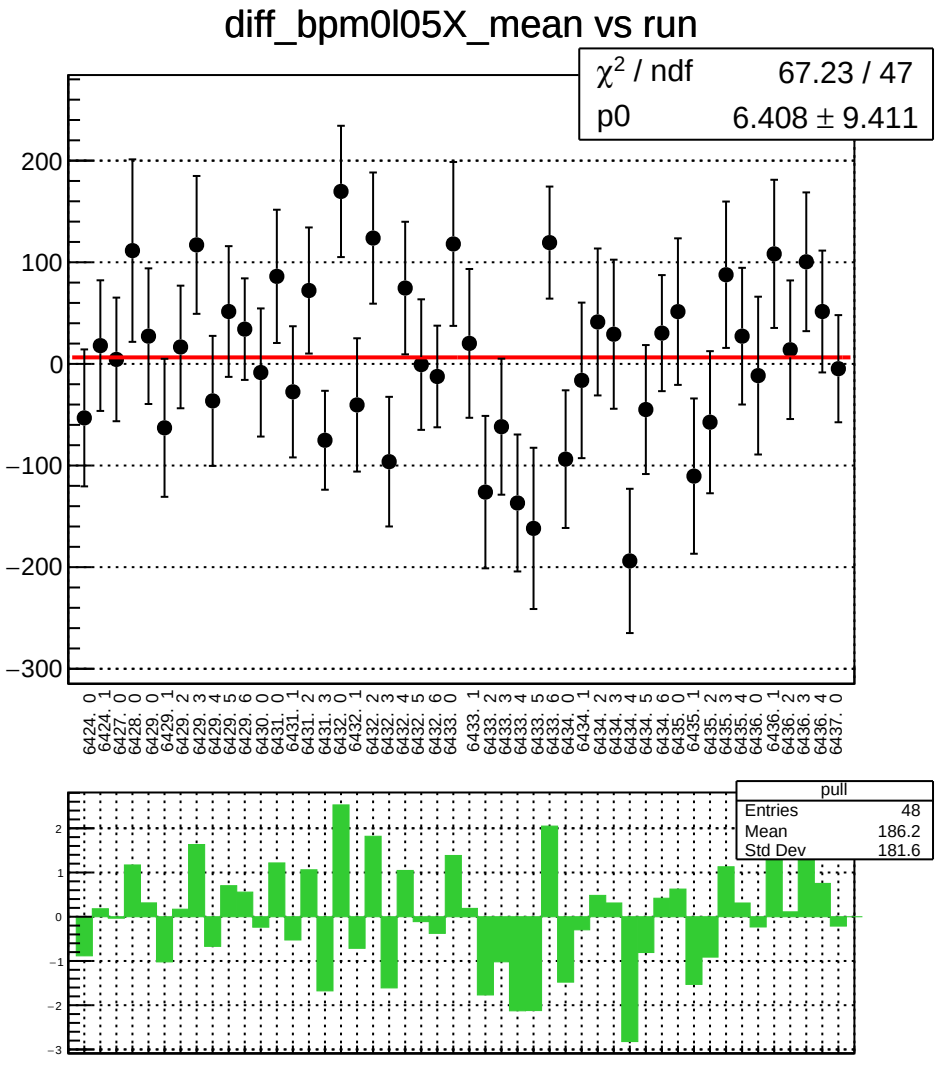

diff_bpm0l04X_mean vs run
χ^2 / ndf 71.72 / 47
p0 42.85 ± 15.43
600
400
200
0
−200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −617.3
Std Dev 638.5
3
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.00626
Std Dev 1.222
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

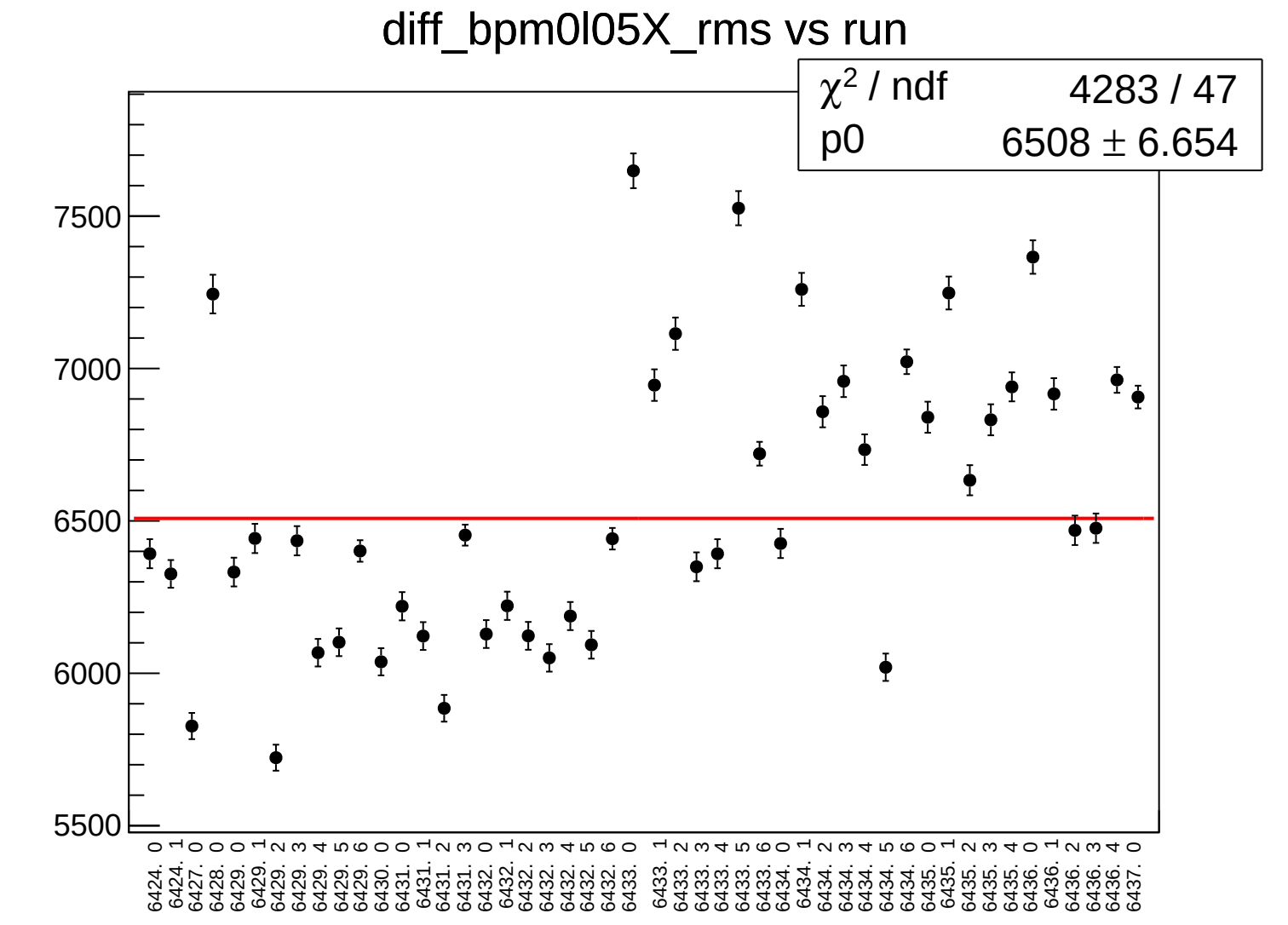

diff_bpm0l04X_rms vs run
χ² / ndf 106.4 / 47
p0 1.07e+04 ± 10.91
11000
10900
10800
10700
10600
10500
10400
10300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

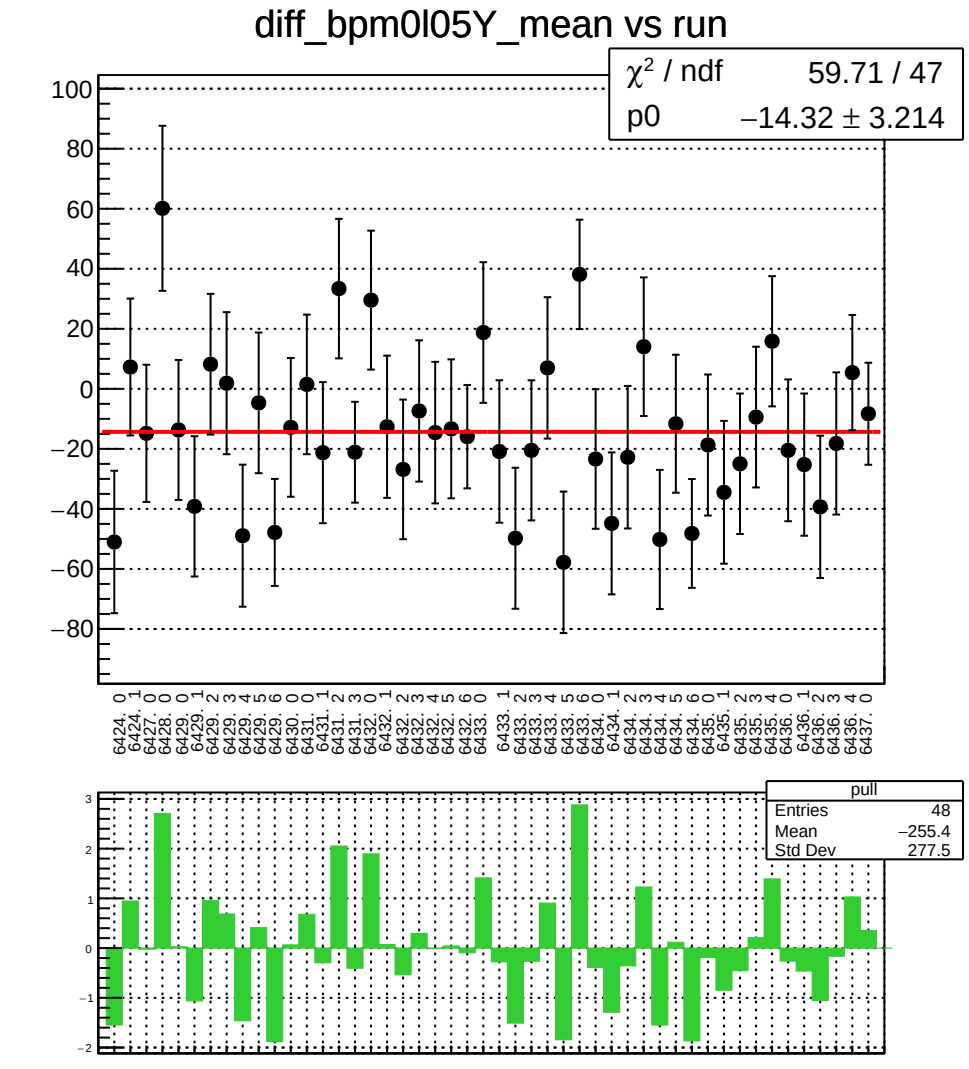

diff_bpm0l04Y_mean vs run
χ² / ndf 50.08 / 47
p0 4.443 ± 1.249
pull
Entries 48
Mean −11.55
Std Dev 48.91

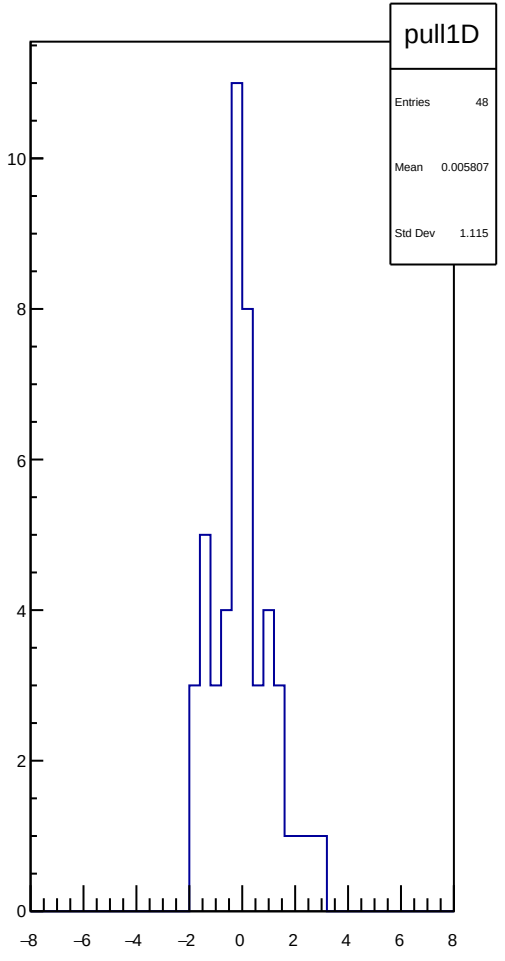

pull1D
Entries 48
Mean −0.02266
Std Dev 1.021

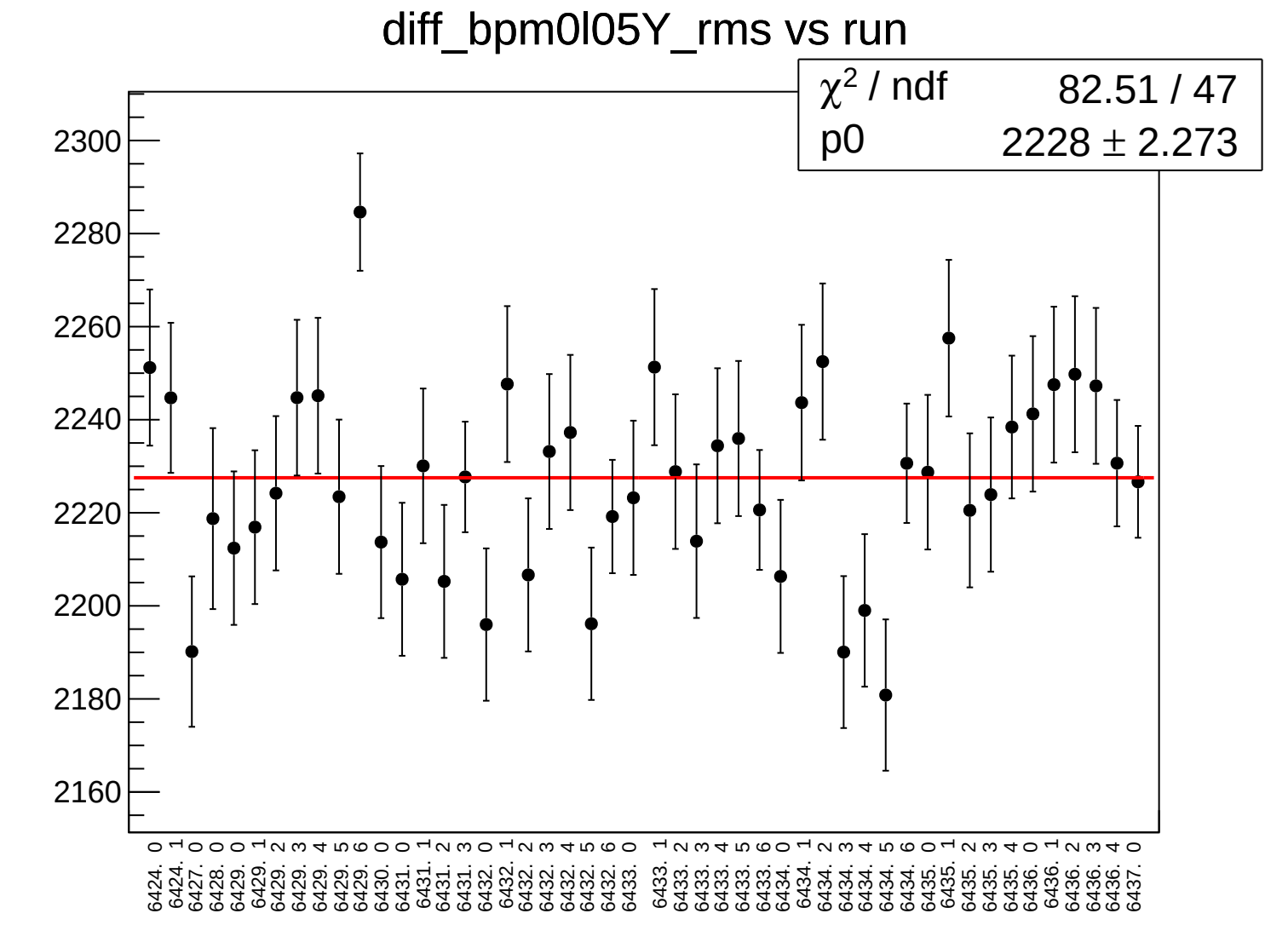

diff_bpm0l04Y_rms vs run
χ² / ndf 2531 / 47
p0 864.9 ± 0.8835
1000
950
900
850
800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

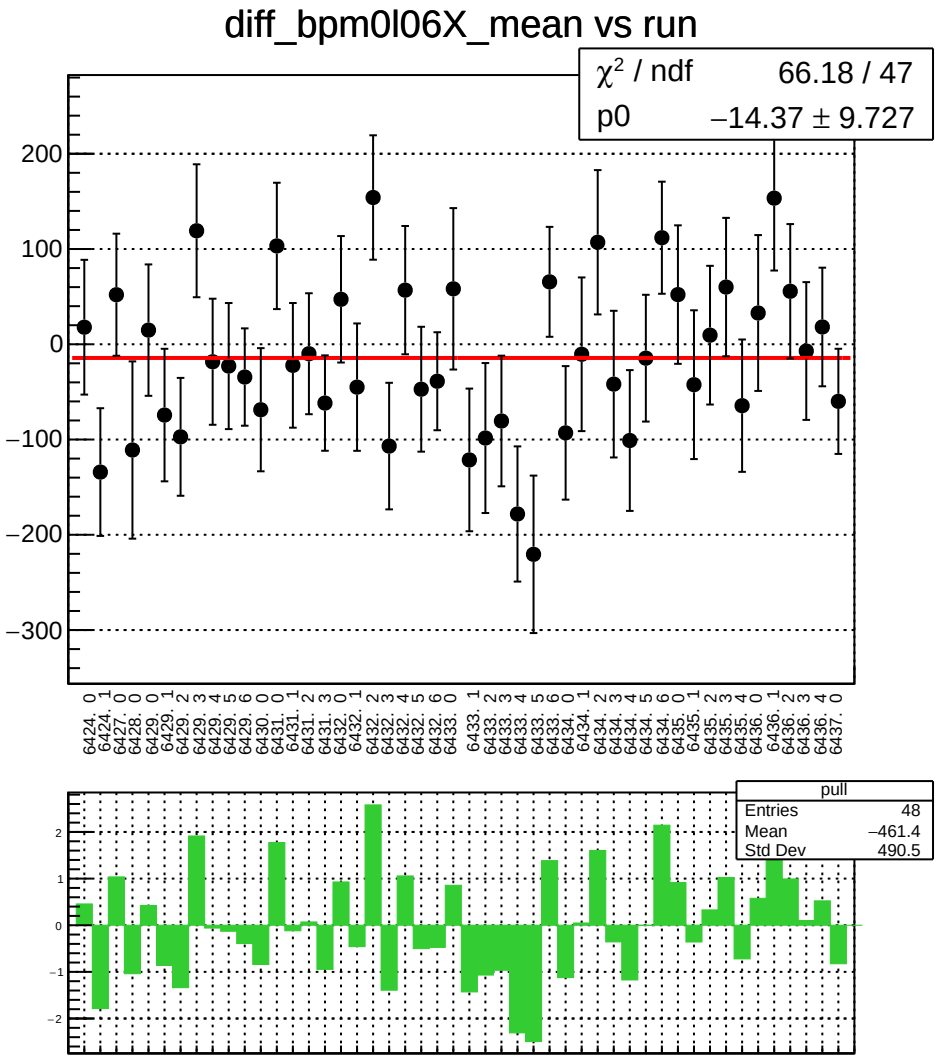

diff_bpm0l05X_mean vs run
χ² / ndf 67.23 / 47
p0 6.408 ± 9.411
200
100
0
−100
−200
−300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 186.2
Std Dev 181.6
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.005039
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

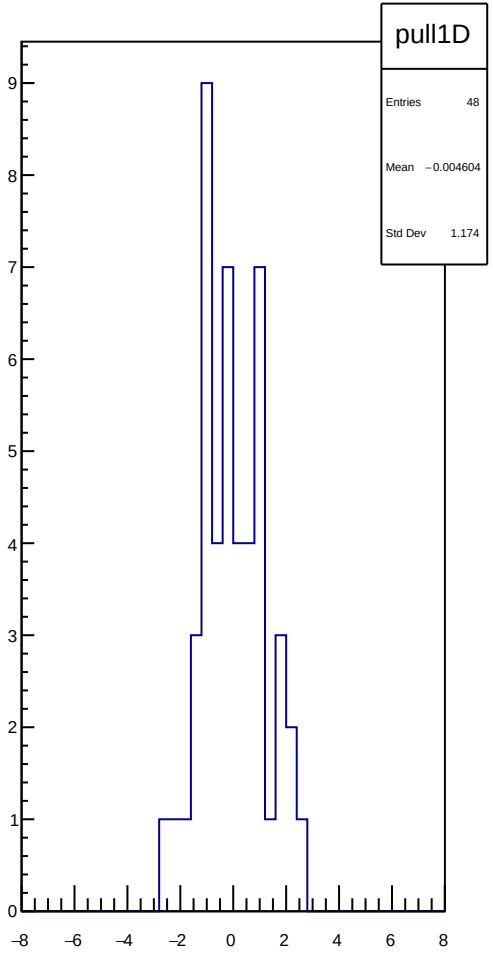

diff_bpm0l05X_rms vs run
χ² / ndf 4283 / 47
p0 6508 ± 6.654
7500
7000
6500
6000
5500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

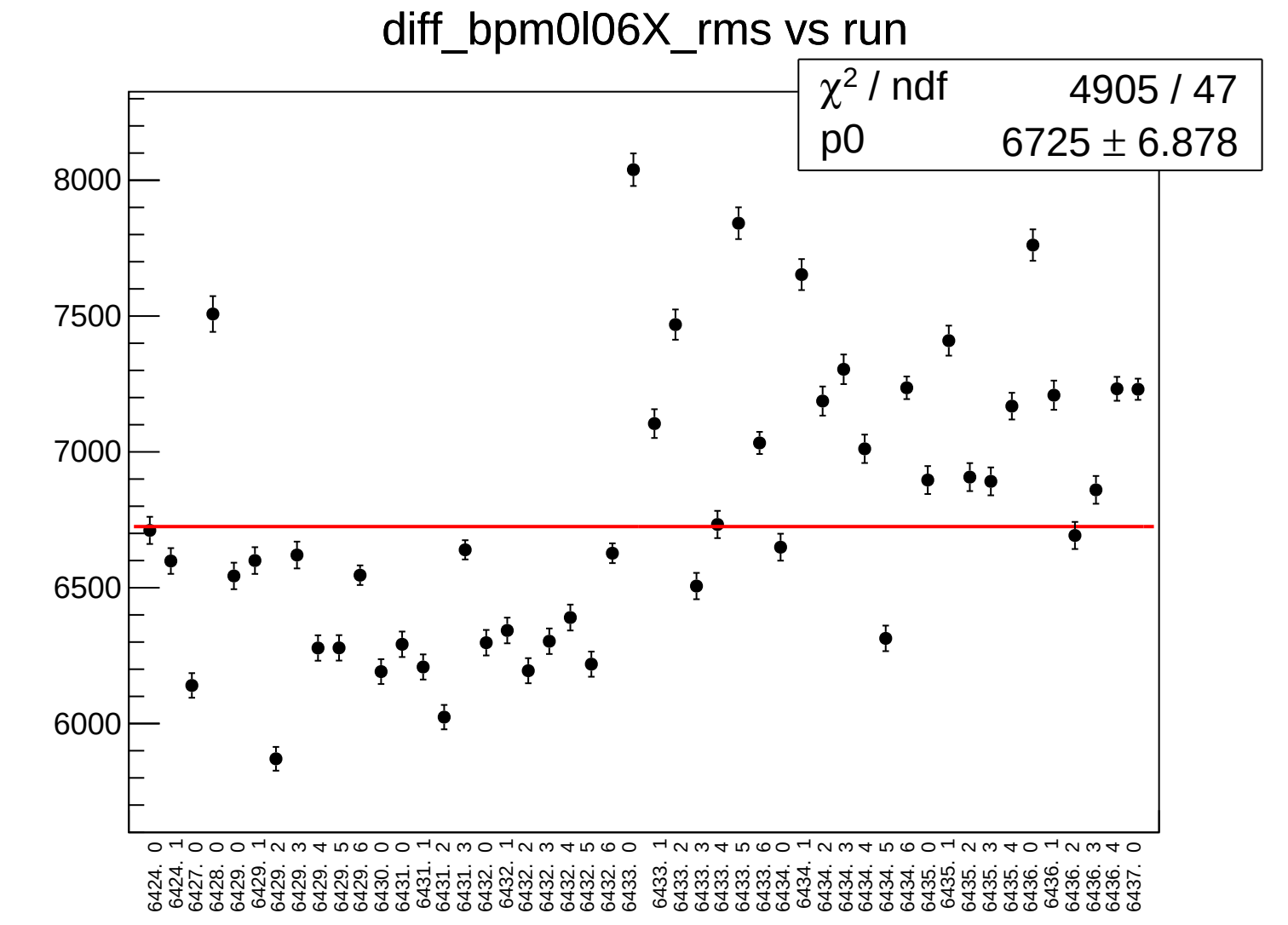

diff_bpm0l05Y_mean vs run
χ² / ndf 59.71 / 47
p0 −14.32 ± 3.214
pull
Entries 48
Mean −255.4
Std Dev 277.5

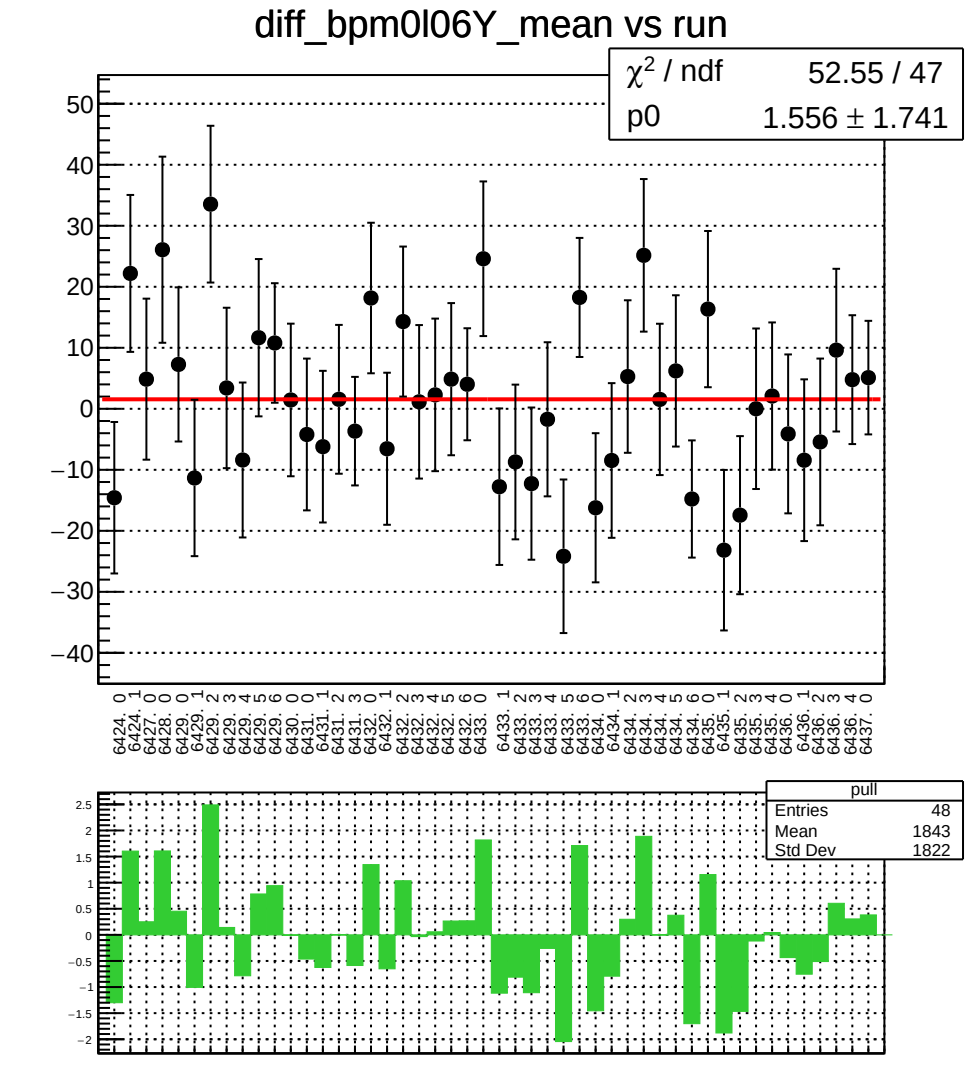

pull1D
Entries 48
Mean 0.005807
Std Dev 1.115

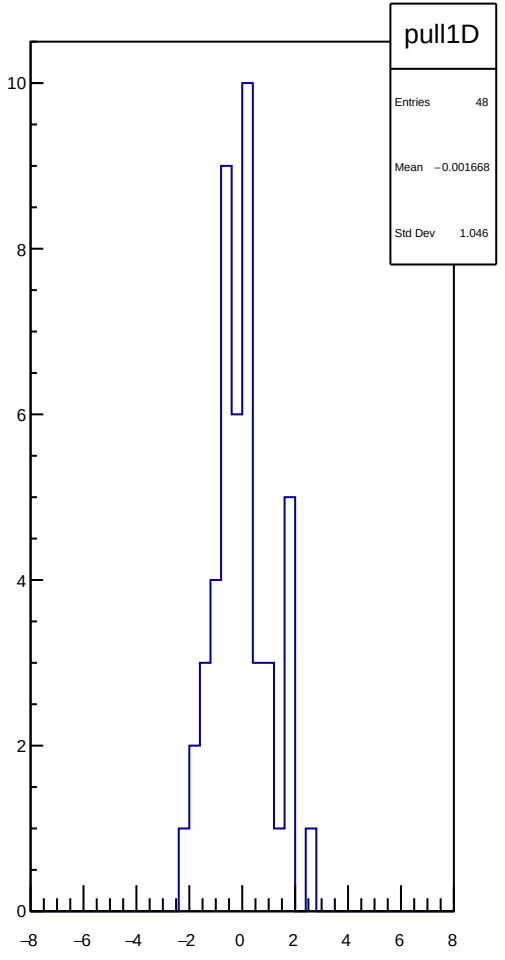

diff_bpm0l05Y_rms vs run
χ² / ndf 82.51 / 47
p0 2228 ± 2.273
2300
2280
2260
2240
2220
2200
2180
2160
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

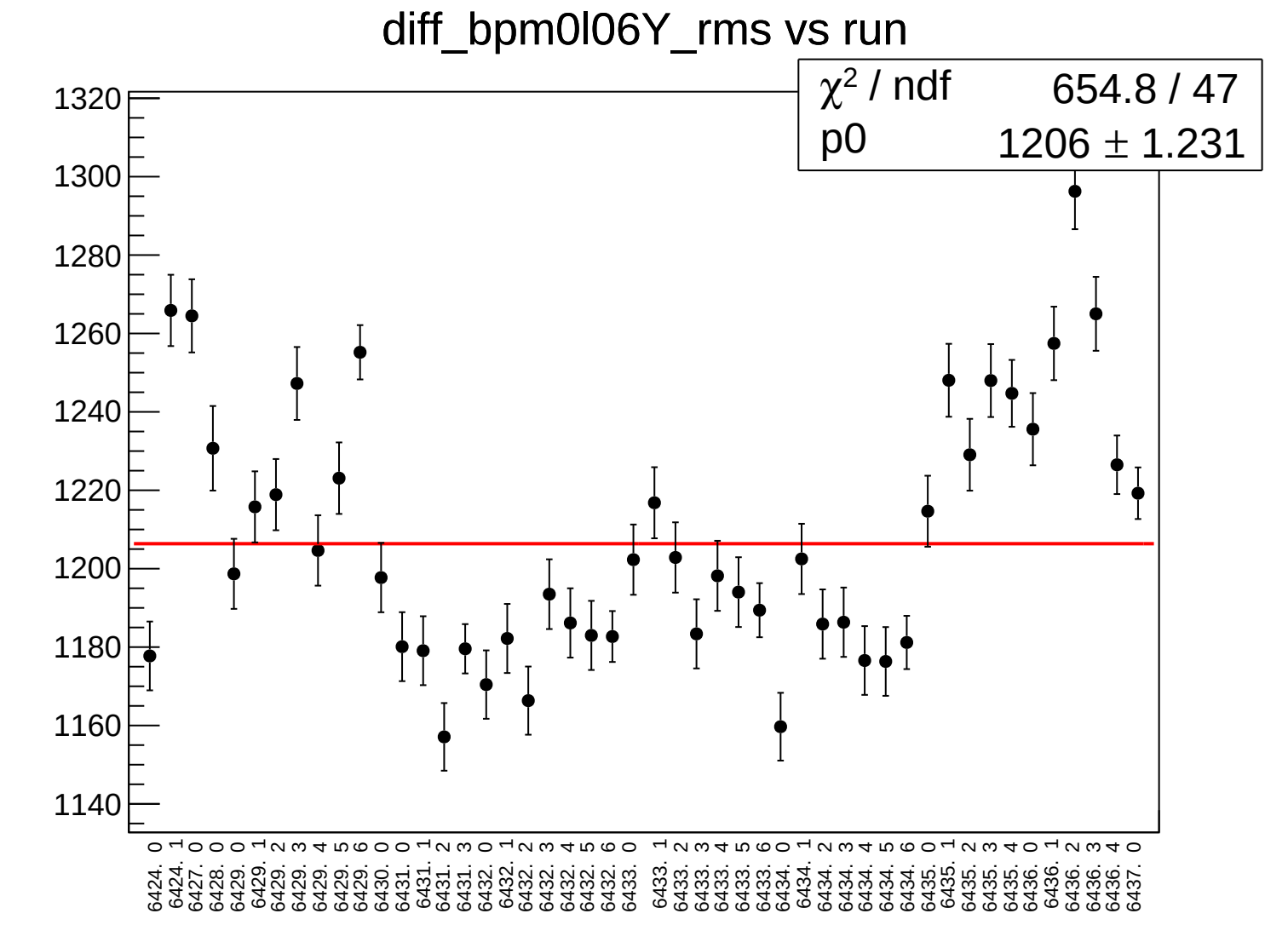

diff_bpm0l06X_mean vs run
χ² / ndf 66.18 / 47
p0 −14.37 ± 9.727
200
100
0
−100
−200
−300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −461.4
Std Dev 490.5
2
1
0
−1
−2

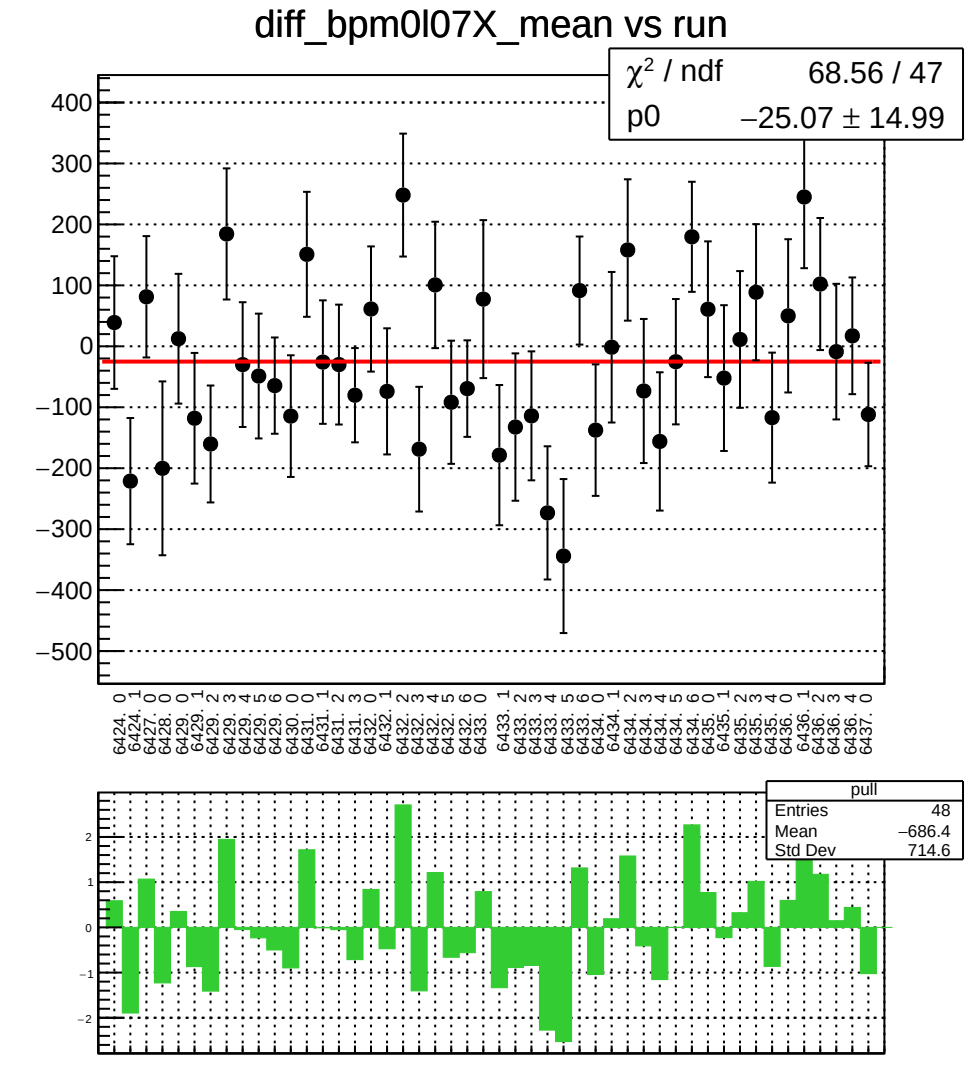

pull1D
Entries 48
Mean −0.004604
Std Dev 1.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

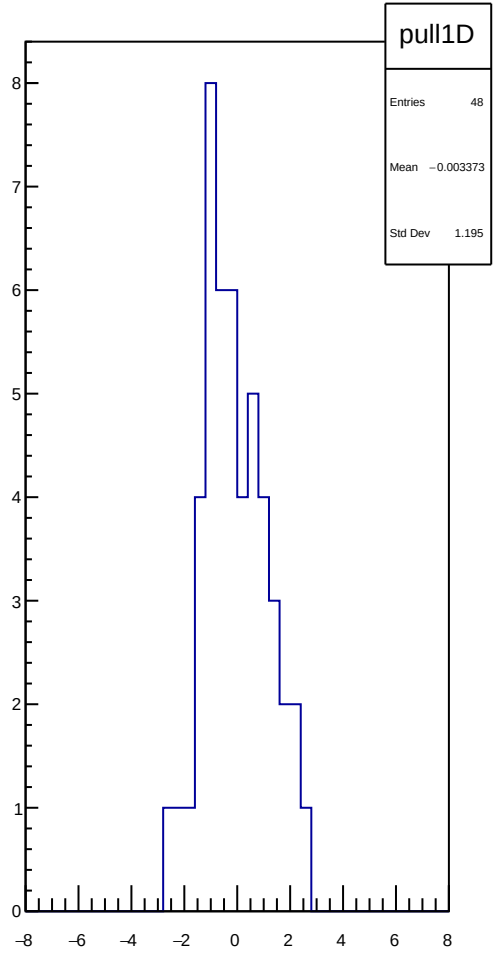

diff_bpm0l06X_rms vs run
χ² / ndf 4905 / 47
p0 6725 ± 6.878
8000
7500
7000
6500
6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

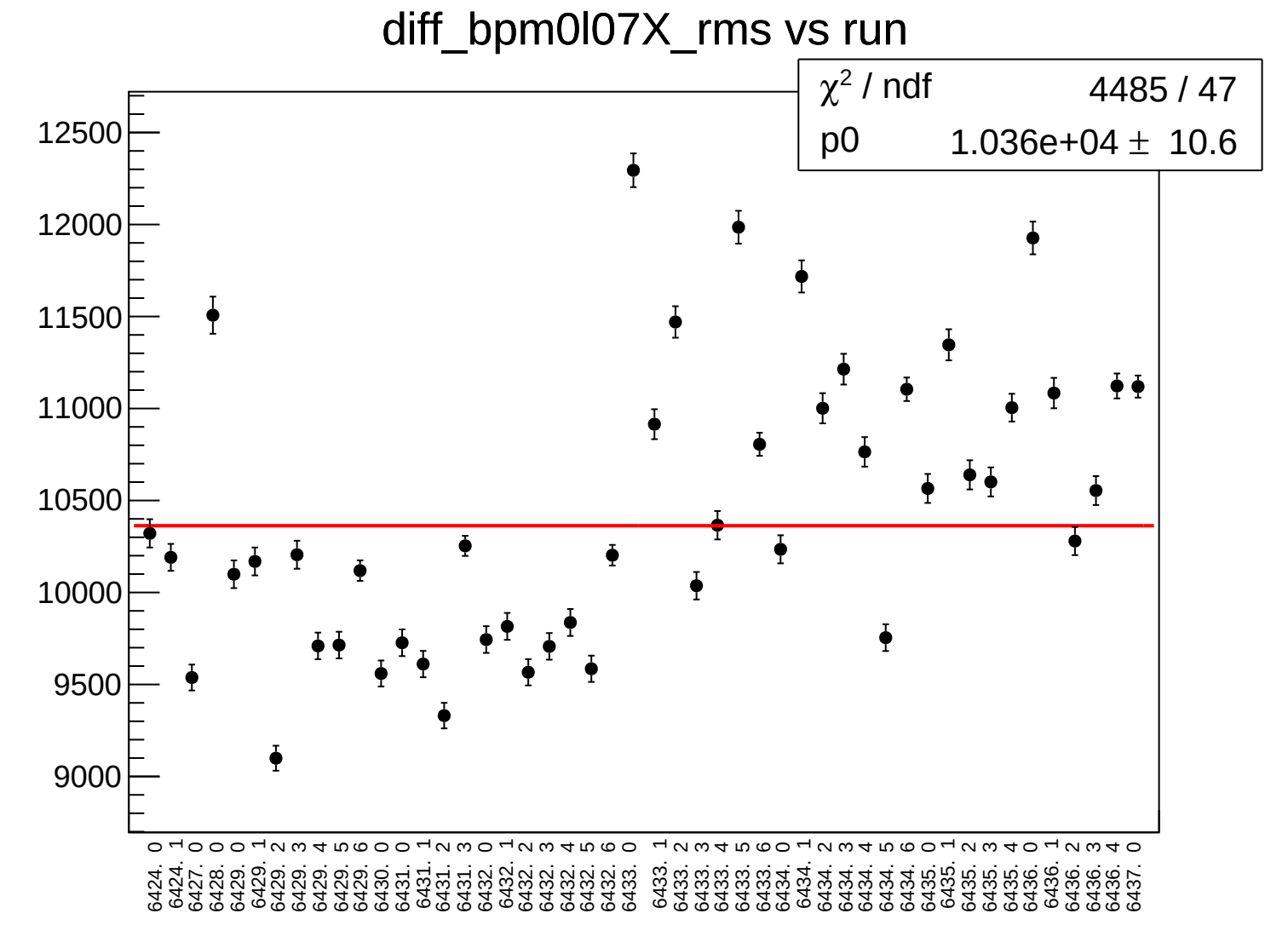

diff_bpm0l06Y_mean vs run
χ² / ndf 52.55 / 47
p0 1.556 ± 1.741
pull
Entries 48
Mean 1843
Std Dev 1822

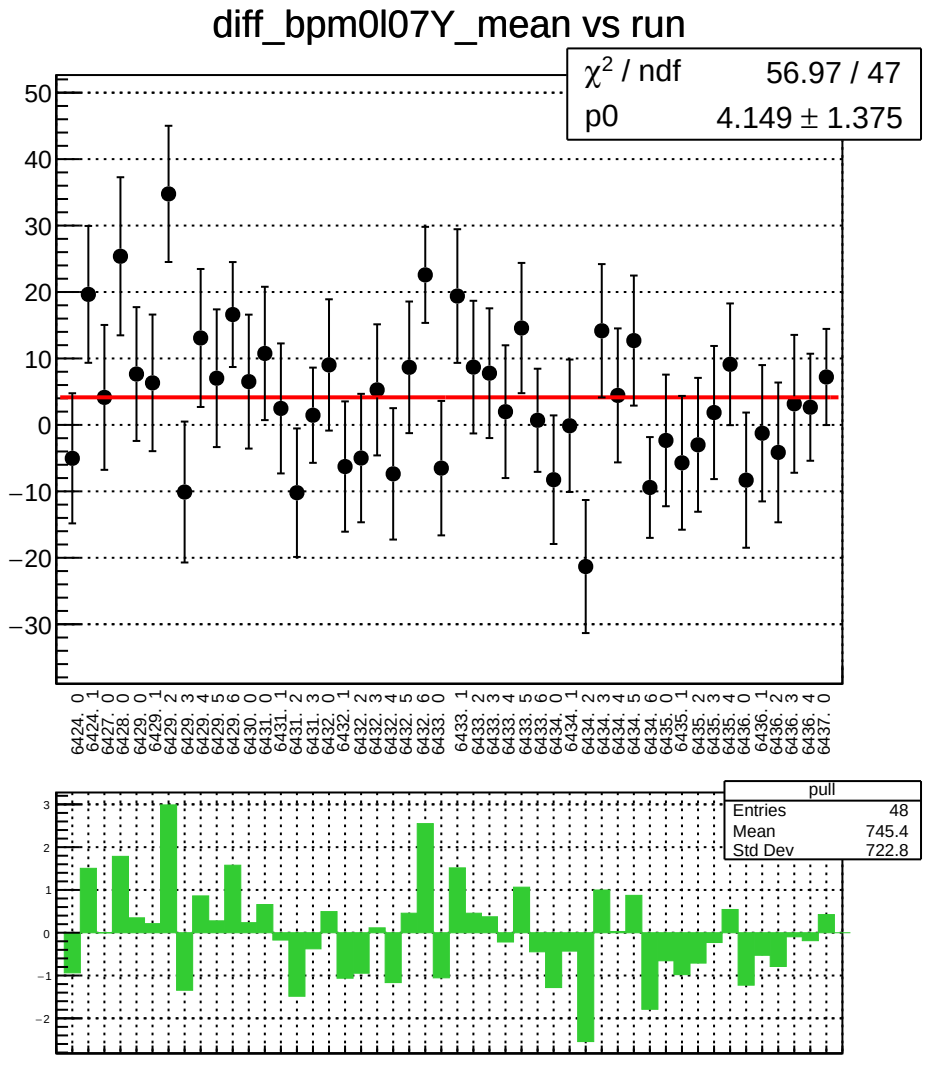

pull1D
Entries 48
Mean −0.001668
Std Dev 1.046

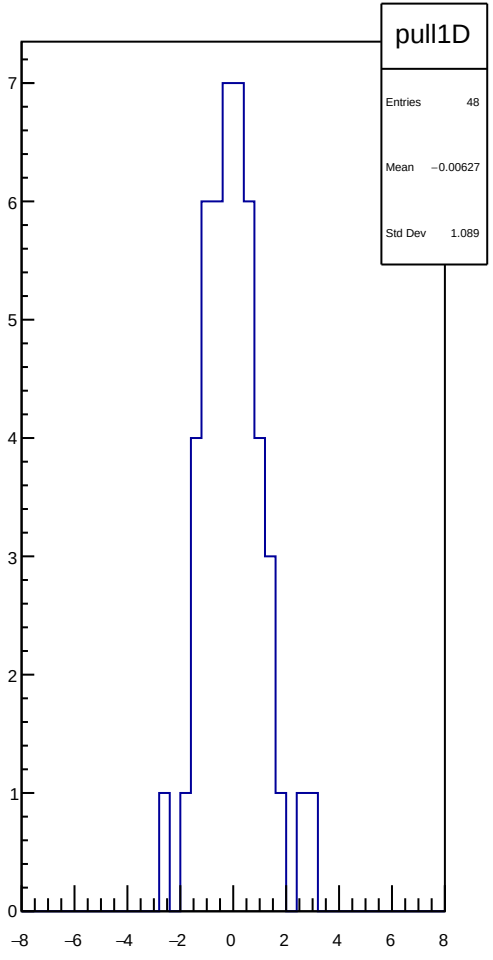

diff_bpm0l06Y_rms vs run
χ² / ndf 654.8 / 47
p0 1206 ± 1.231
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

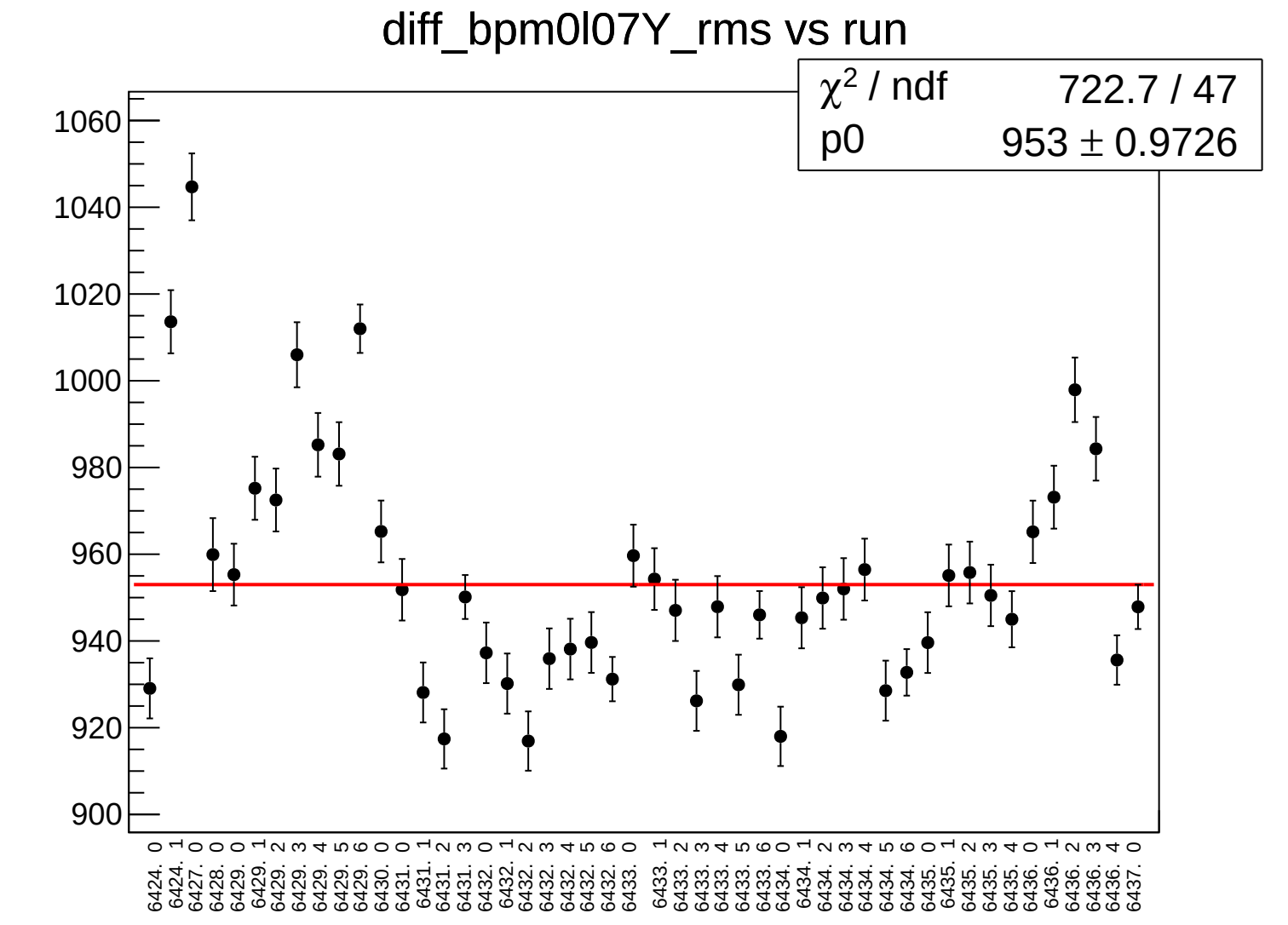

diff_bpm0l07X_mean vs run
χ^2 / ndf 68.56 / 47
p0 −25.07 ± 14.99
pull
Entries 48
Mean −686.4
Std Dev 714.6

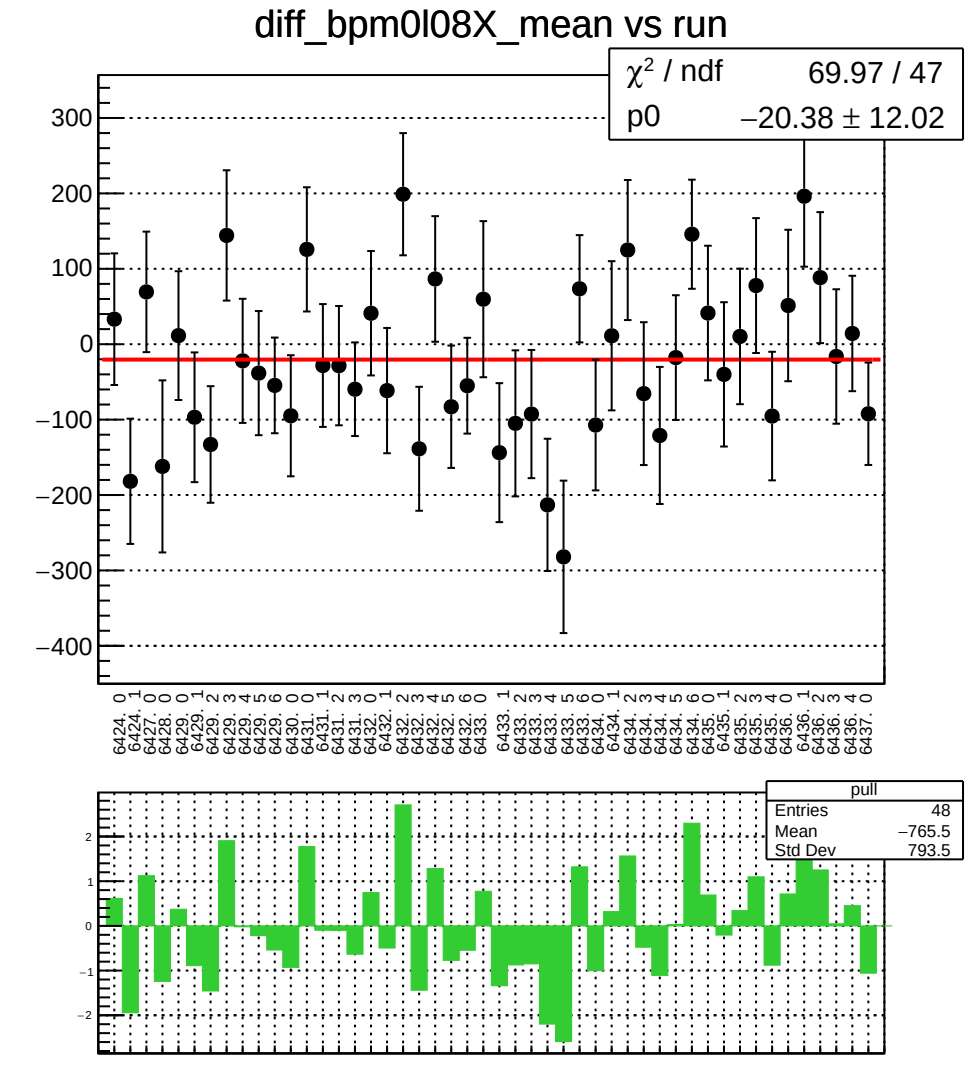

pull1D
Entries 48
Mean −0.003373
Std Dev 1.195

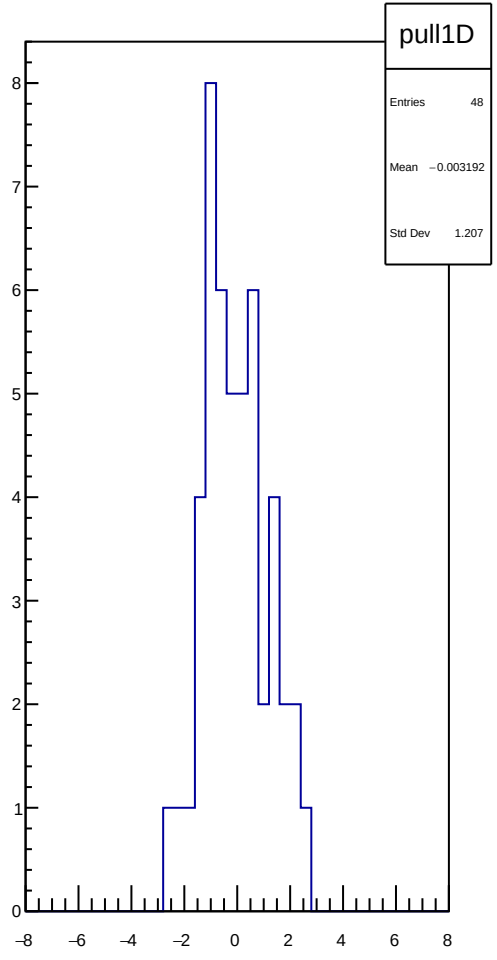

diff_bpm0l07X_rms vs run
χ² / ndf 4485 / 47
p0 1.036e+04 ± 10.6
12500
12000
11500
11000
10500
10000
9500
9000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

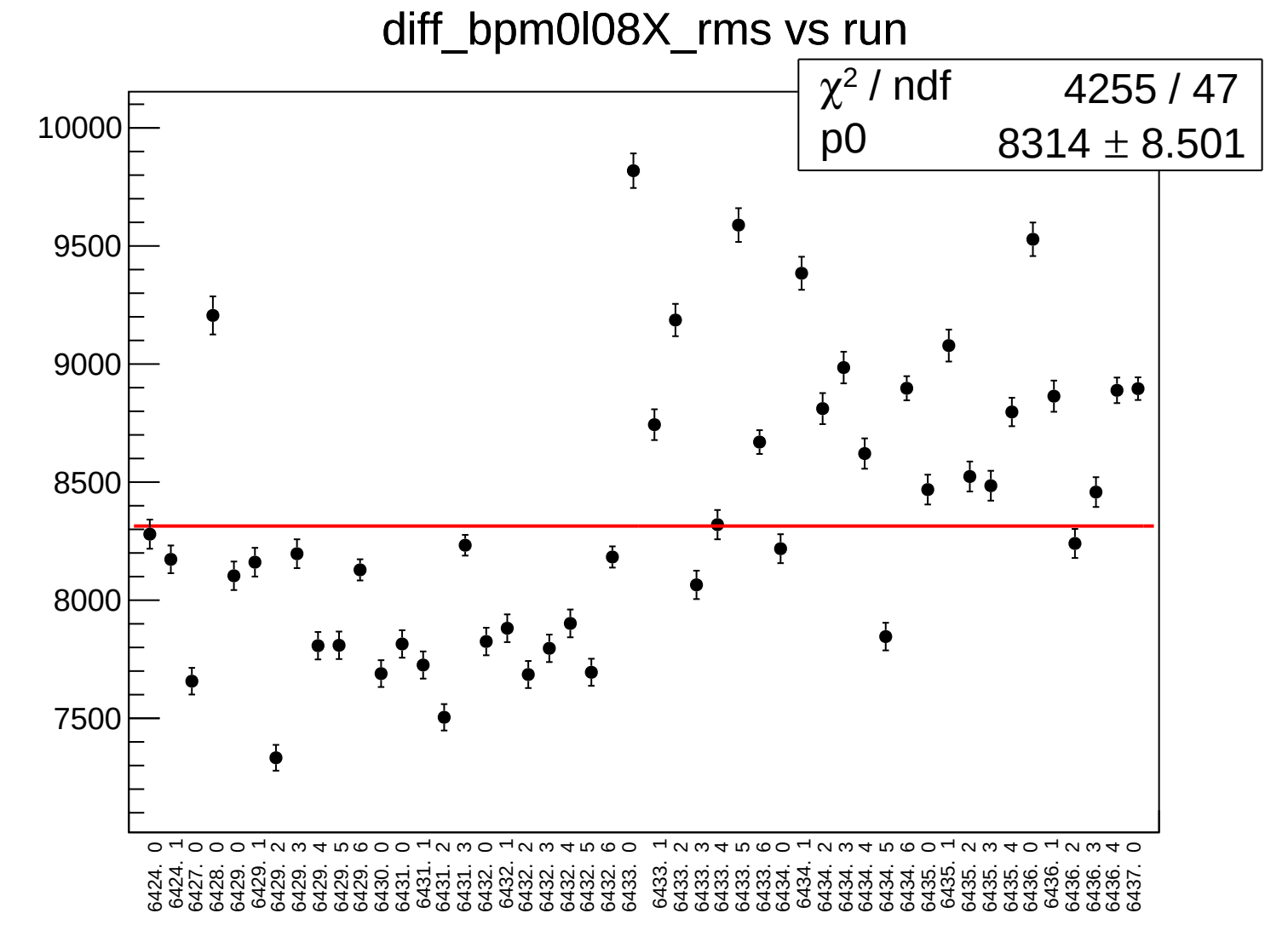

diff_bpm0l07Y_mean vs run
χ² / ndf 56.97 / 47
p0 4.149 ± 1.375
pull
Entries 48
Mean 745.4
Std Dev 722.8

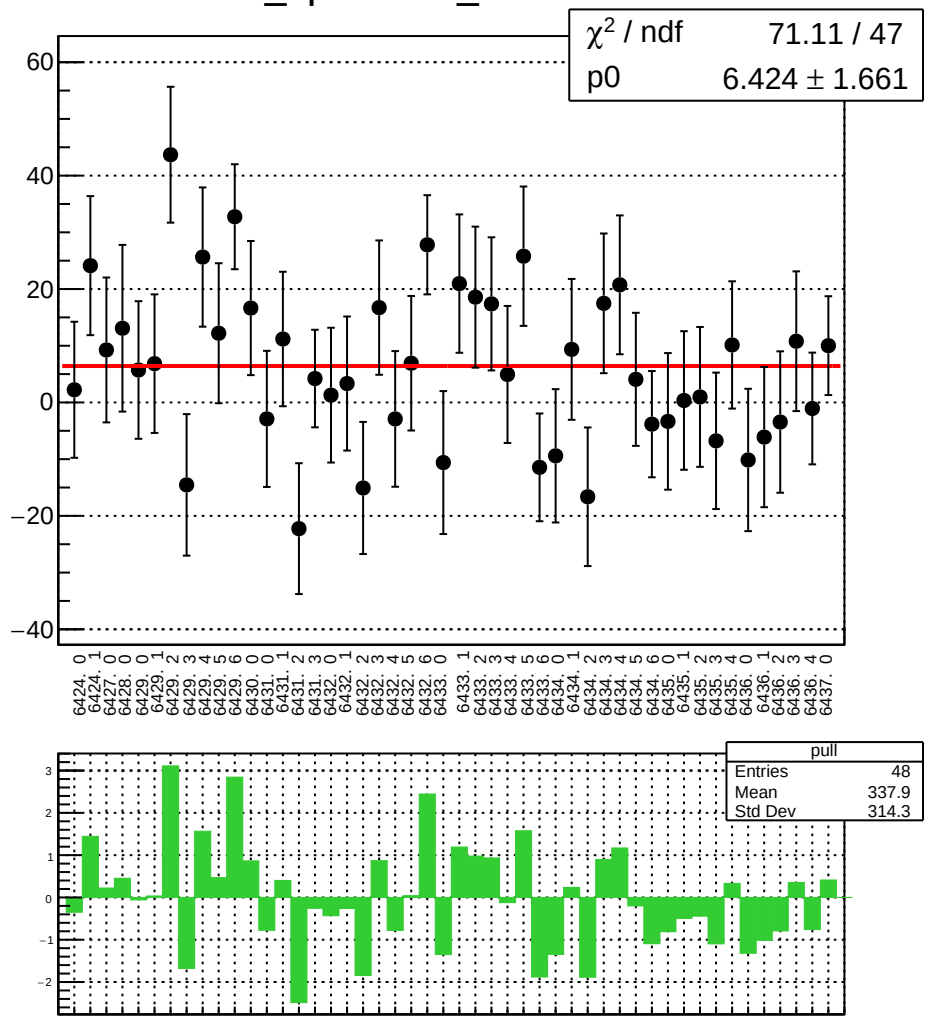

pull1D
Entries 48
Mean −0.00627
Std Dev 1.089

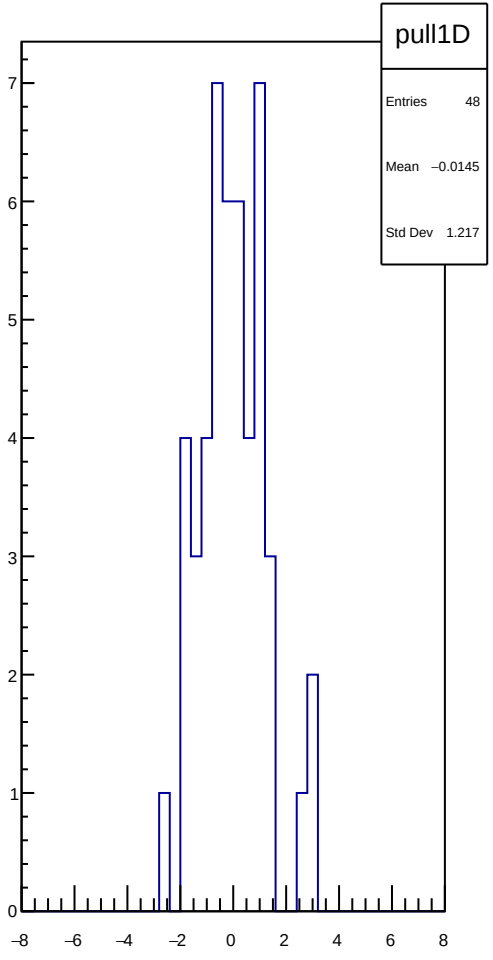

diff_bpm0l07Y_rms vs run
χ² / ndf 722.7 / 47
p0 953 ± 0.9726
1060
1040
1020
1000
980
960
940
920
900
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

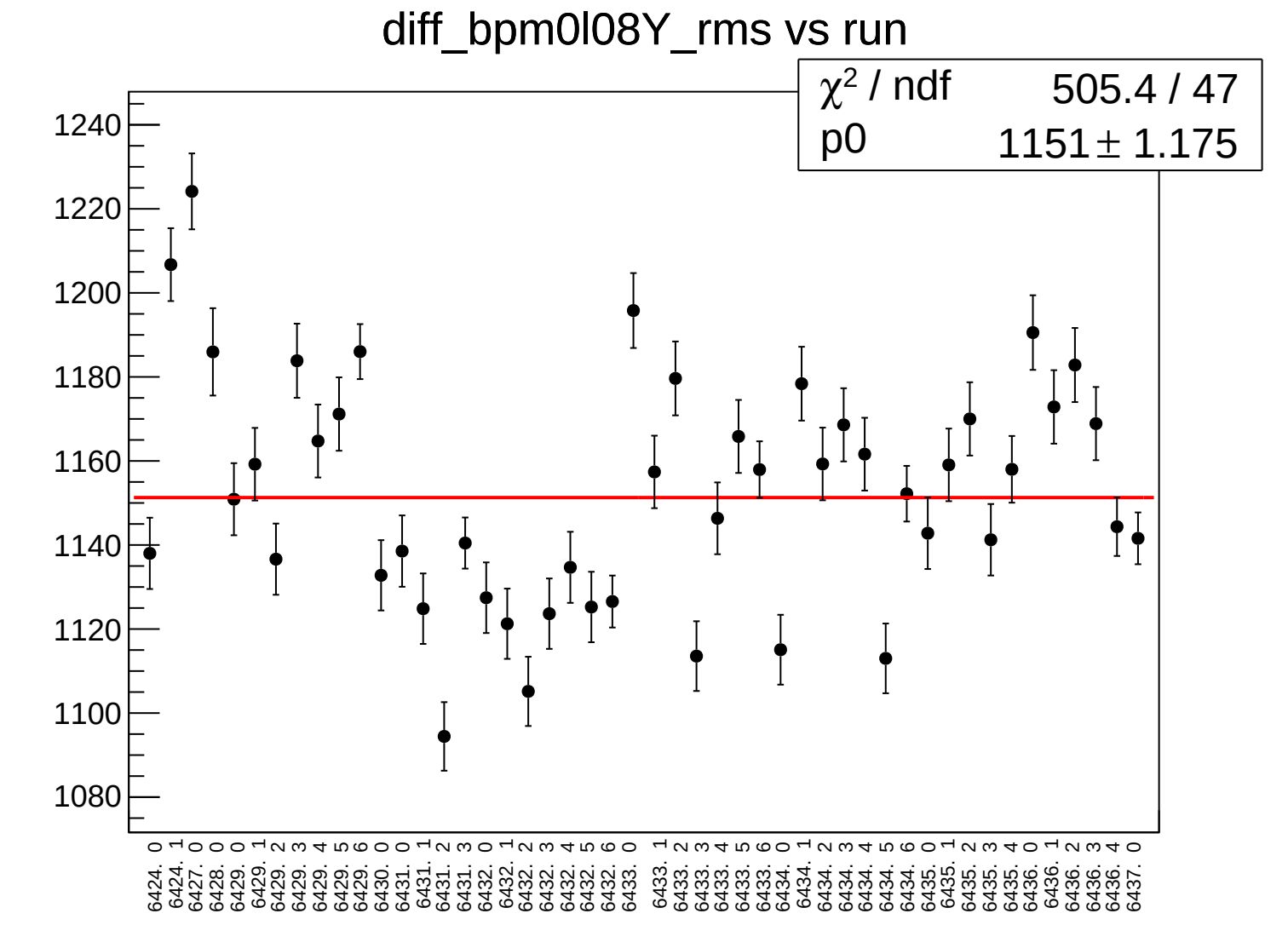

diff_bpm0l08X_mean vs run
χ² / ndf 69.97 / 47
p0 −20.38 ± 12.02
pull
Entries 48
Mean −765.5
Std Dev 793.5

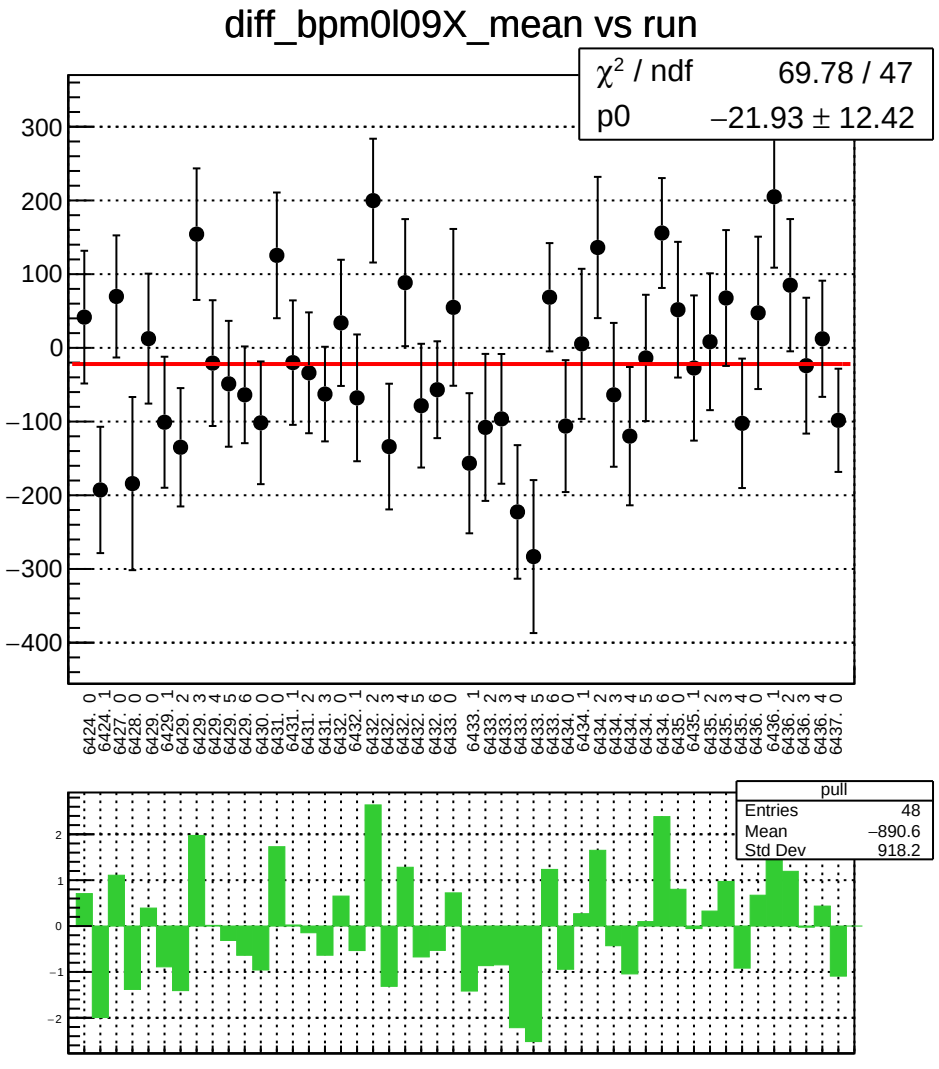

pull1D
Entries 48
Mean −0.003192
Std Dev 1.207

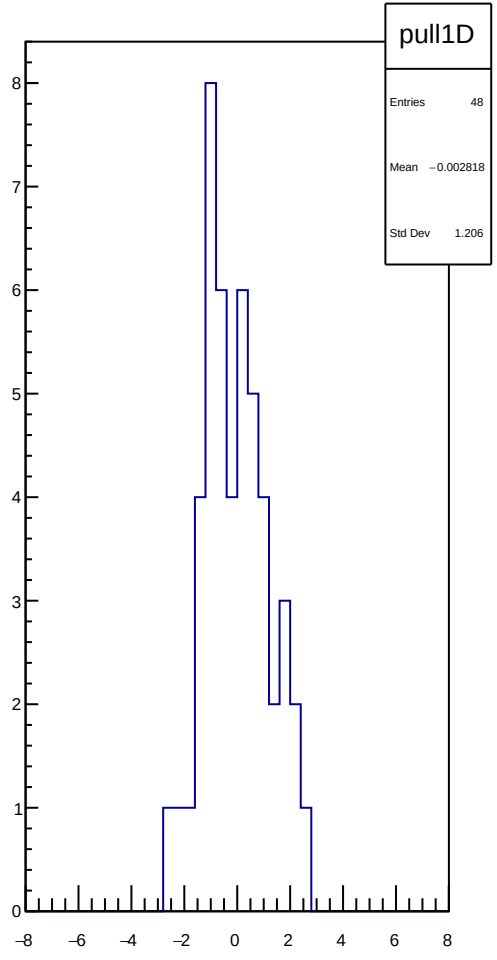

diff_bpm0l08X_rms vs run
χ² / ndf 4255 / 47
p0 8314 ± 8.501
10000
9500
9000
8500
8000
7500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

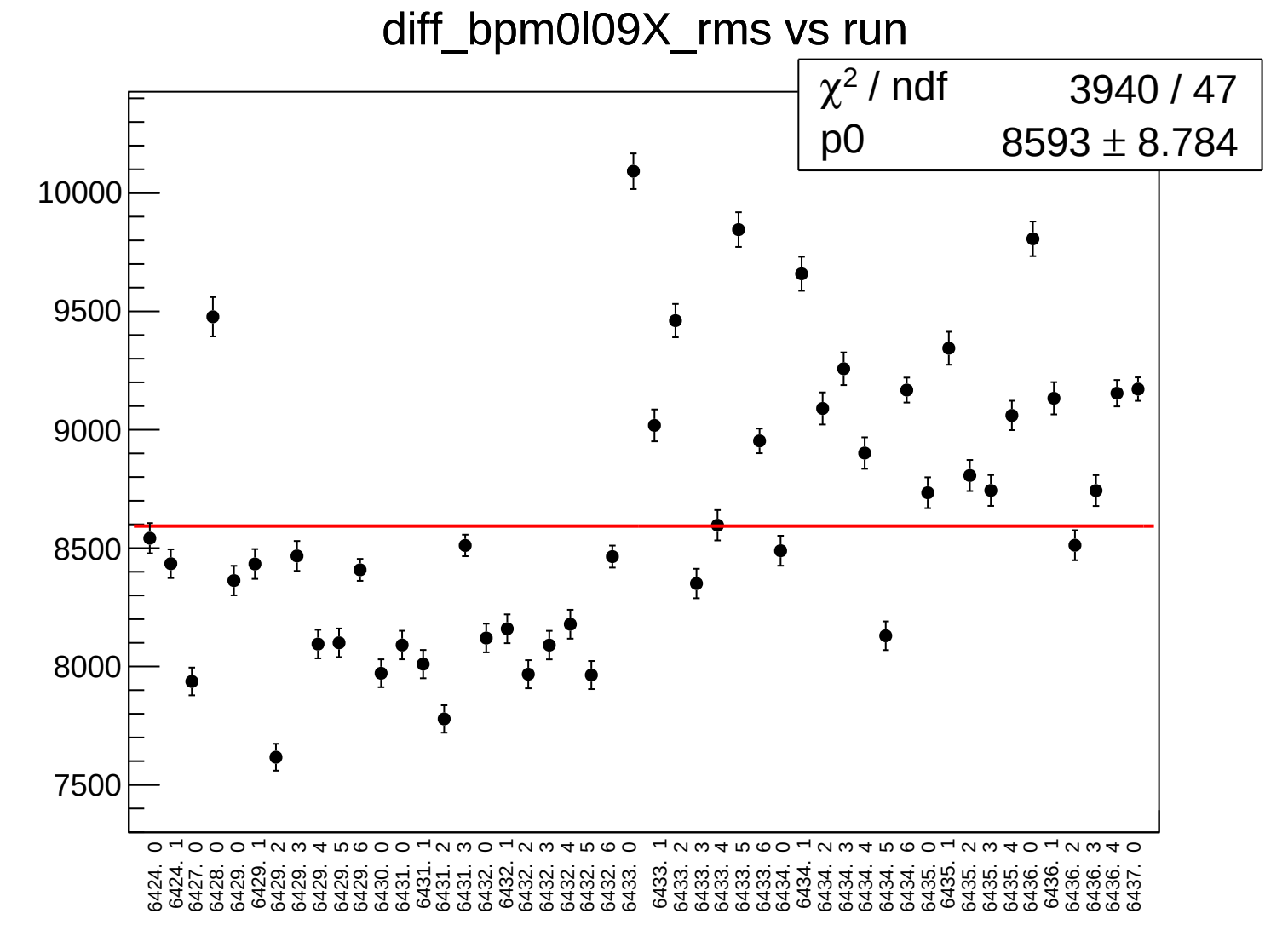

diff_bpm0l08Y_mean vs run
χ² / ndf 71.11 / 47
p0 6.424 ± 1.661
pull
Entries 48
Mean 337.9
Std Dev 314.3

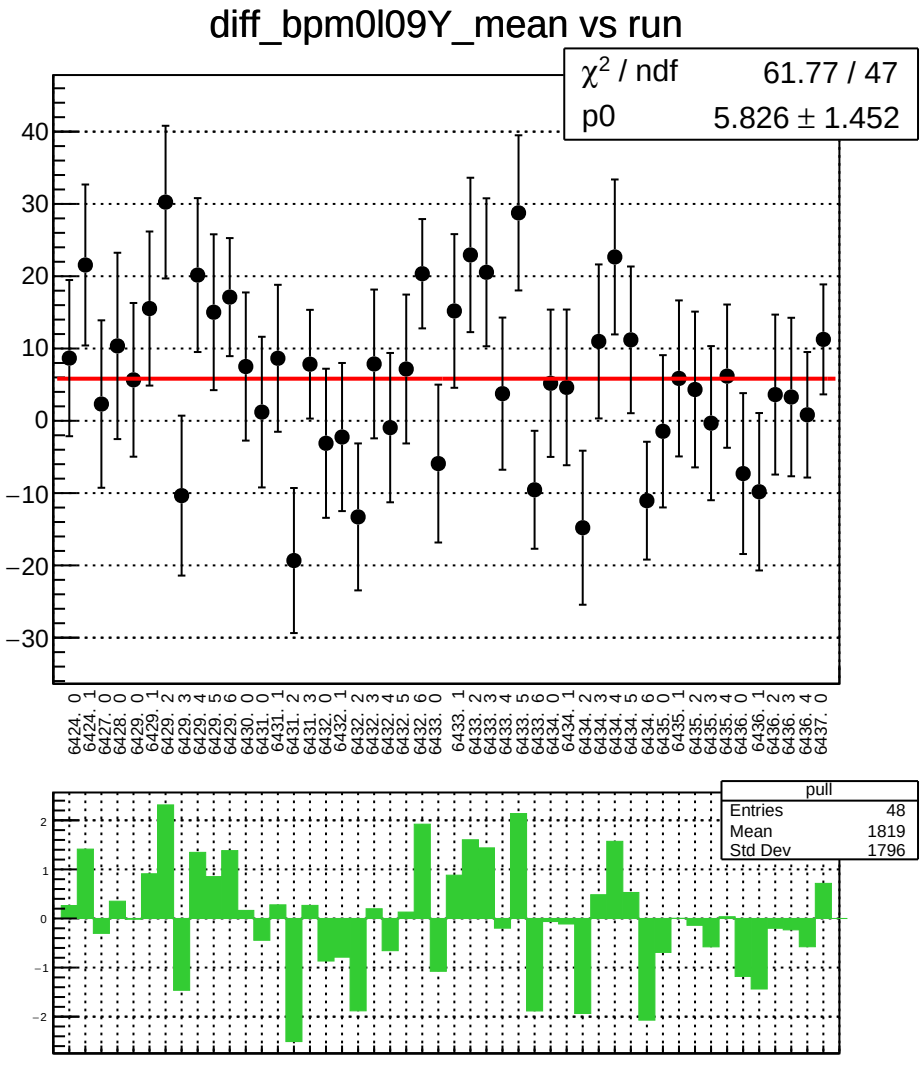

pull1D
Entries 48
Mean −0.0145
Std Dev 1.217

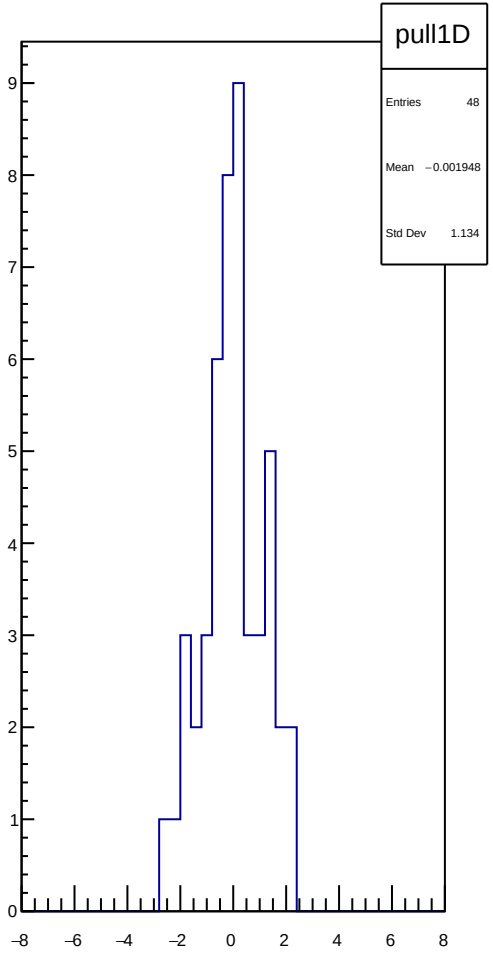

diff_bpm0l08Y_rms vs run
χ² / ndf 505.4 / 47
p0 1151 ± 1.175
1240
1220
1200
1180
1160
1140
1120
1100
1080
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

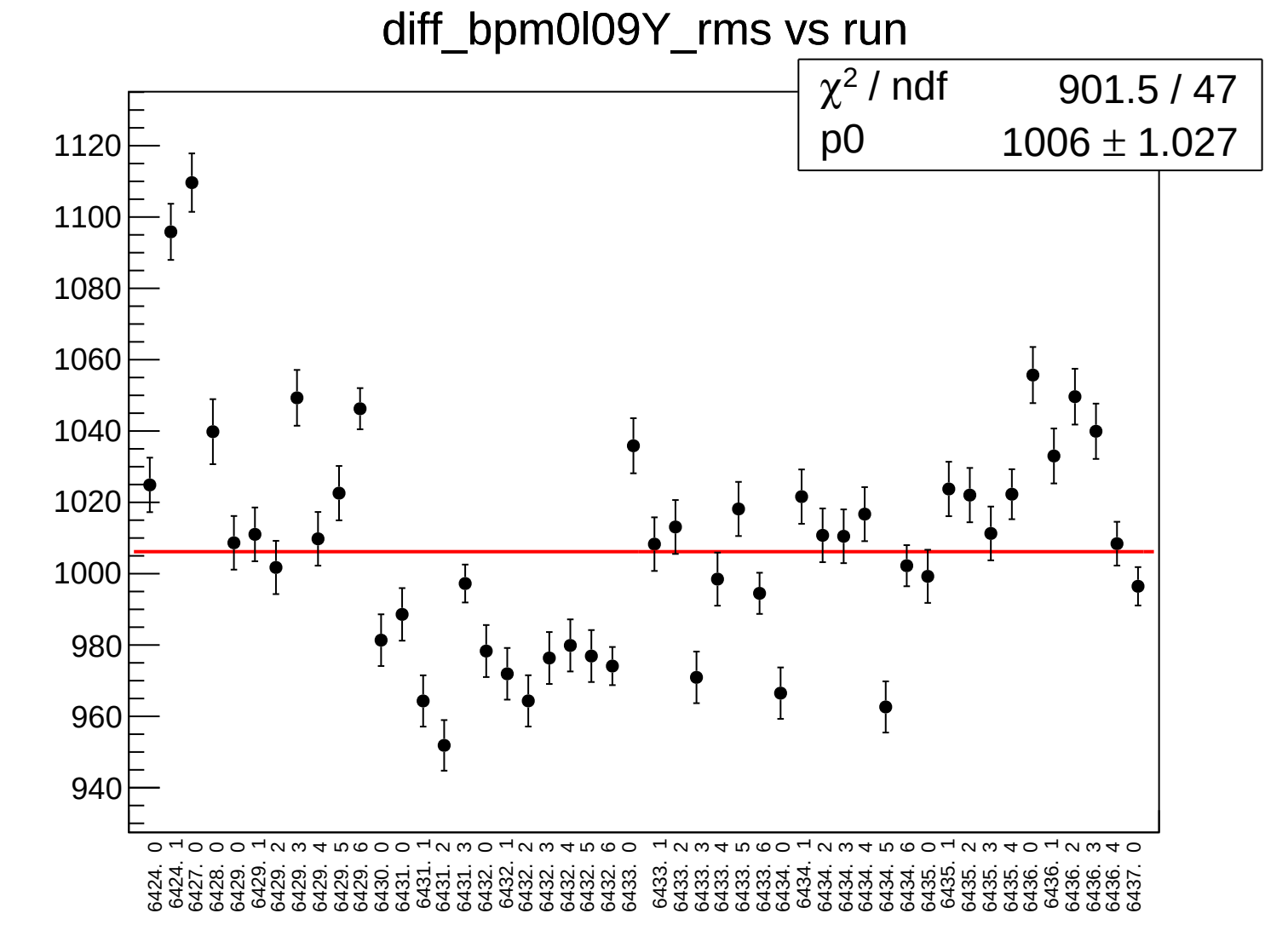

diff_bpm0l09X_mean vs run
χ² / ndf 69.78 / 47
p0 −21.93 ± 12.42
300
200
100
0
−100
−200
−300
−400
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −890.6
Std Dev 918.2
2
1
0
−1
−2

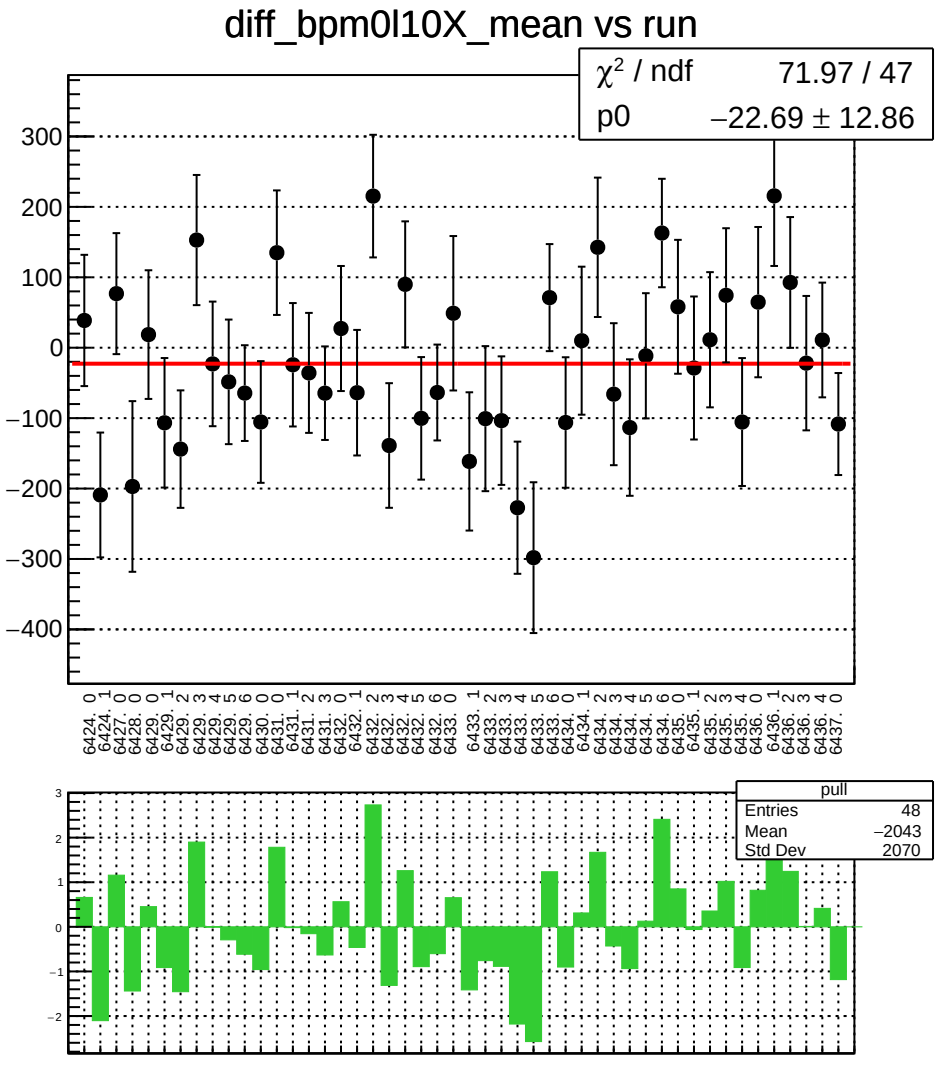

pull1D
Entries 48
Mean −0.002818
Std Dev 1.206
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

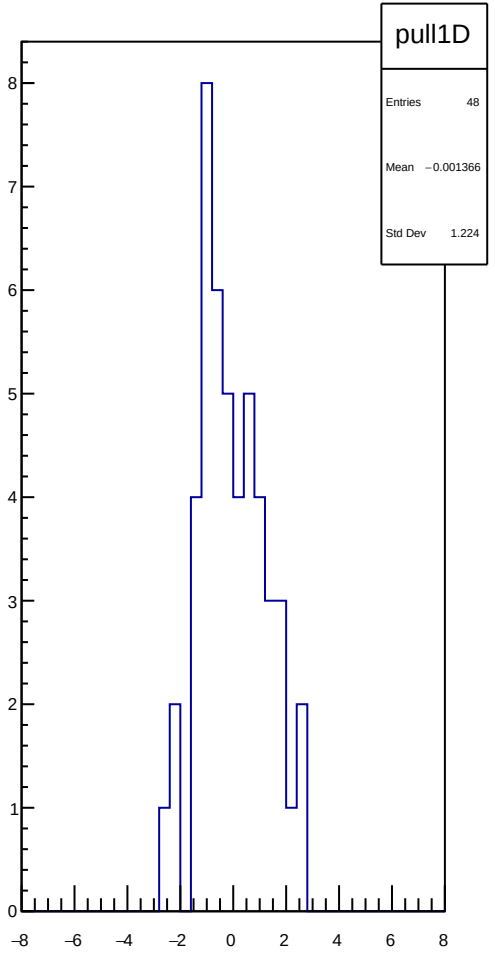

diff_bpm0l09X_rms vs run
χ² / ndf 3940 / 47
p0 8593 ± 8.784
10000
9500
9000
8500
8000
7500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

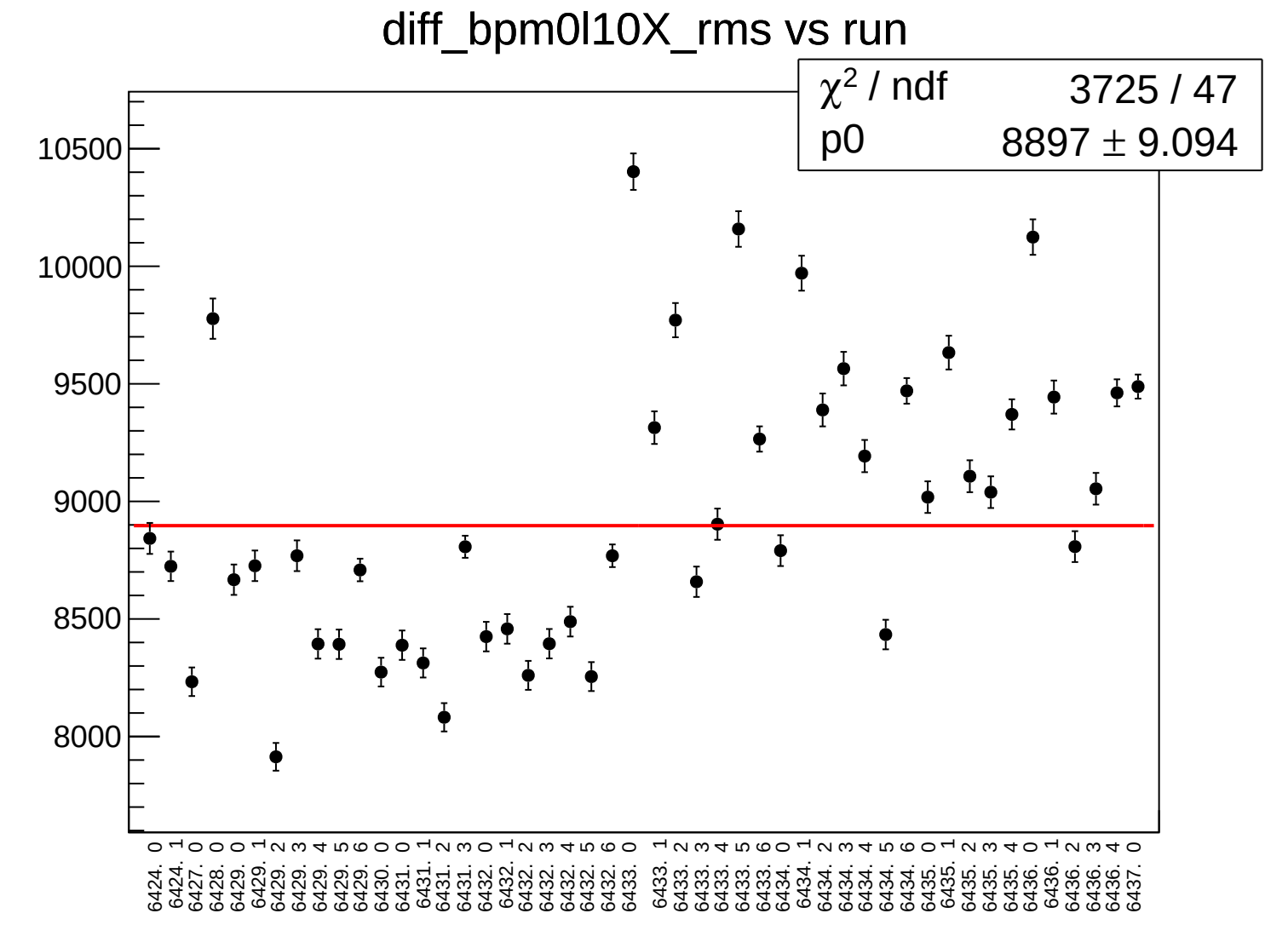

diff_bpm0l09Y_mean vs run
χ^2 / ndf 61.77 / 47
p0 5.826 ± 1.452
pull
Entries 48
Mean 1819
Std Dev 1796

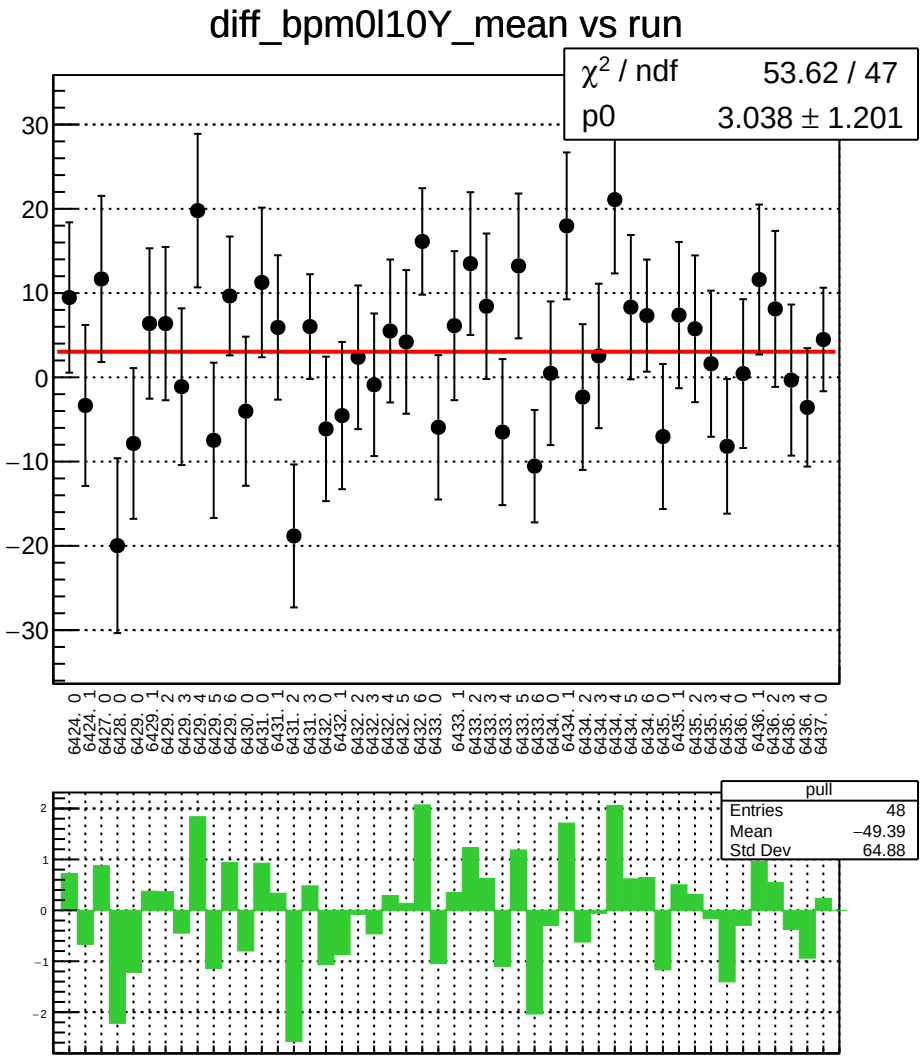

pull1D
Entries 48
Mean −0.001948
Std Dev 1.134

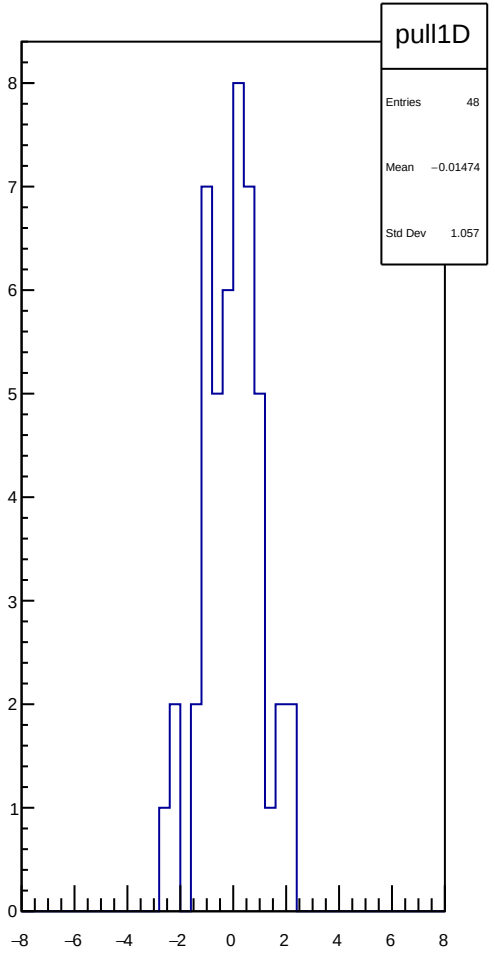

diff_bpm0l09Y_rms vs run
χ² / ndf 901.5 / 47
p0 1006 ± 1.027
1120
1100
1080
1060
1040
1020
1000
980
960
940
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

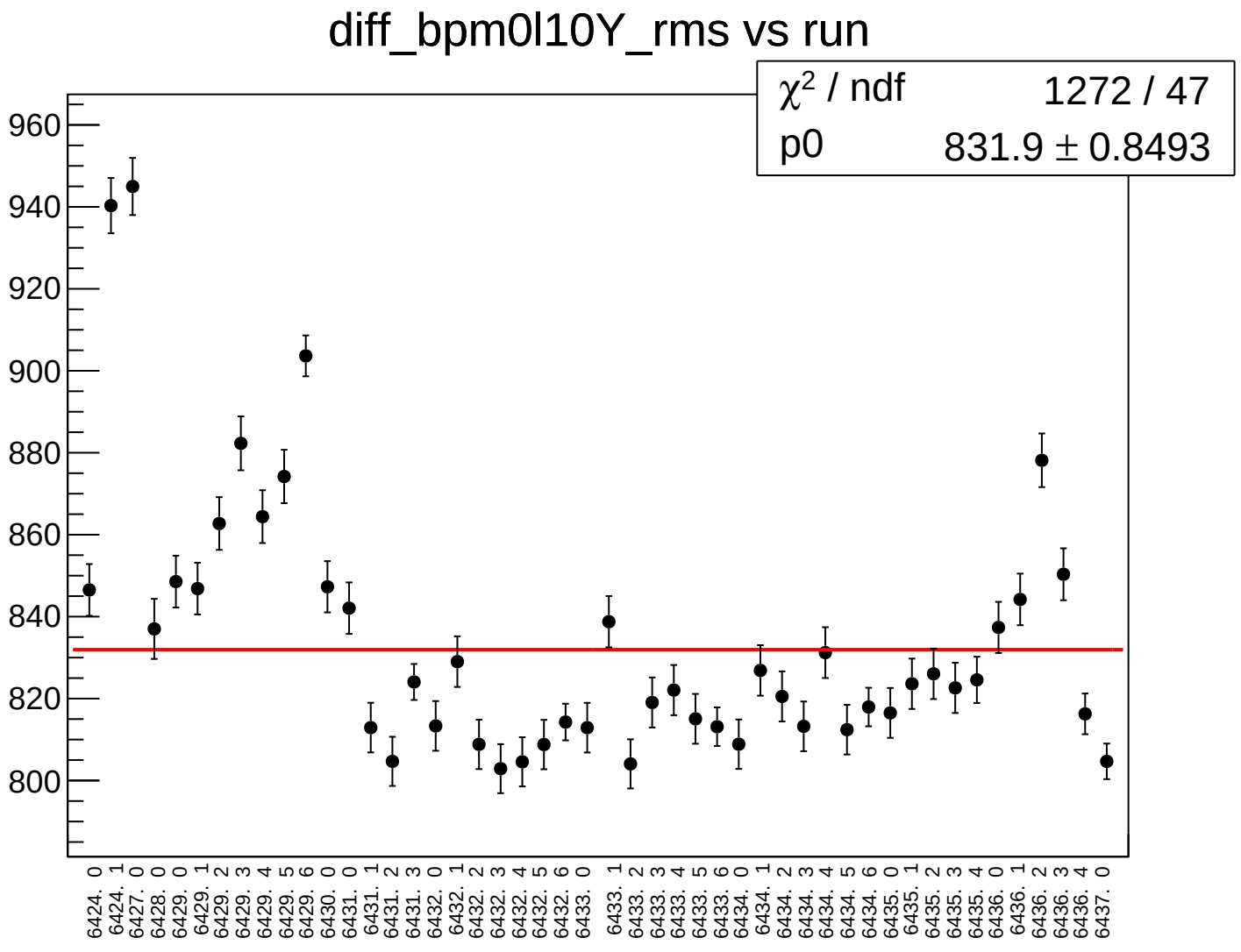

diff_bpm0l10X_mean vs run
χ² / ndf 71.97 / 47
p0 −22.69 ± 12.86
pull
Entries 48
Mean −2043
Std Dev 2070


pull1D
Entries 48
Mean −0.001366
Std Dev 1.224


diff_bpm0l10X_rms vs run
χ² / ndf 3725 / 47
p0 8897 ± 9.094
10500
10000
9500
9000
8500
8000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


diff_bpm0l10Y_mean vs run
χ² / ndf 53.62 / 47
p0 3.038 ± 1.201
pull
Entries 48
Mean −49.39
Std Dev 64.88


pull1D
Entries 48
Mean −0.01474
Std Dev 1.057


diff_bpm0l10Y_rms vs run
χ² / ndf 1272 / 47
p0 831.9 ± 0.8493
960
940
920
900
880
860
840
820
800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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6433. 2
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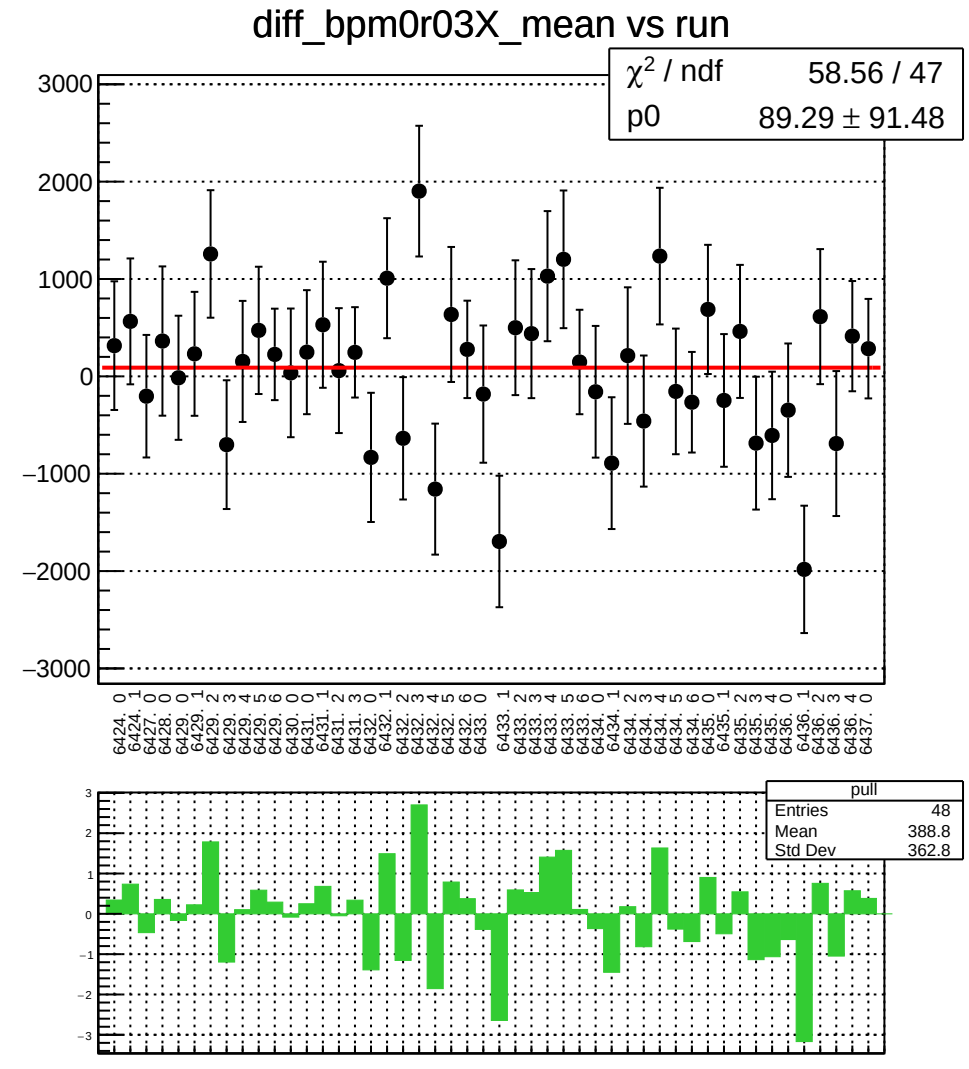
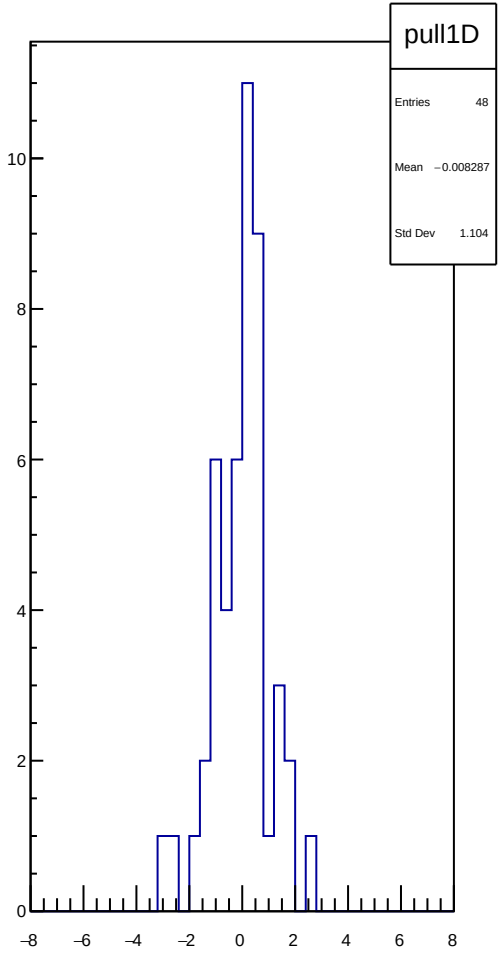
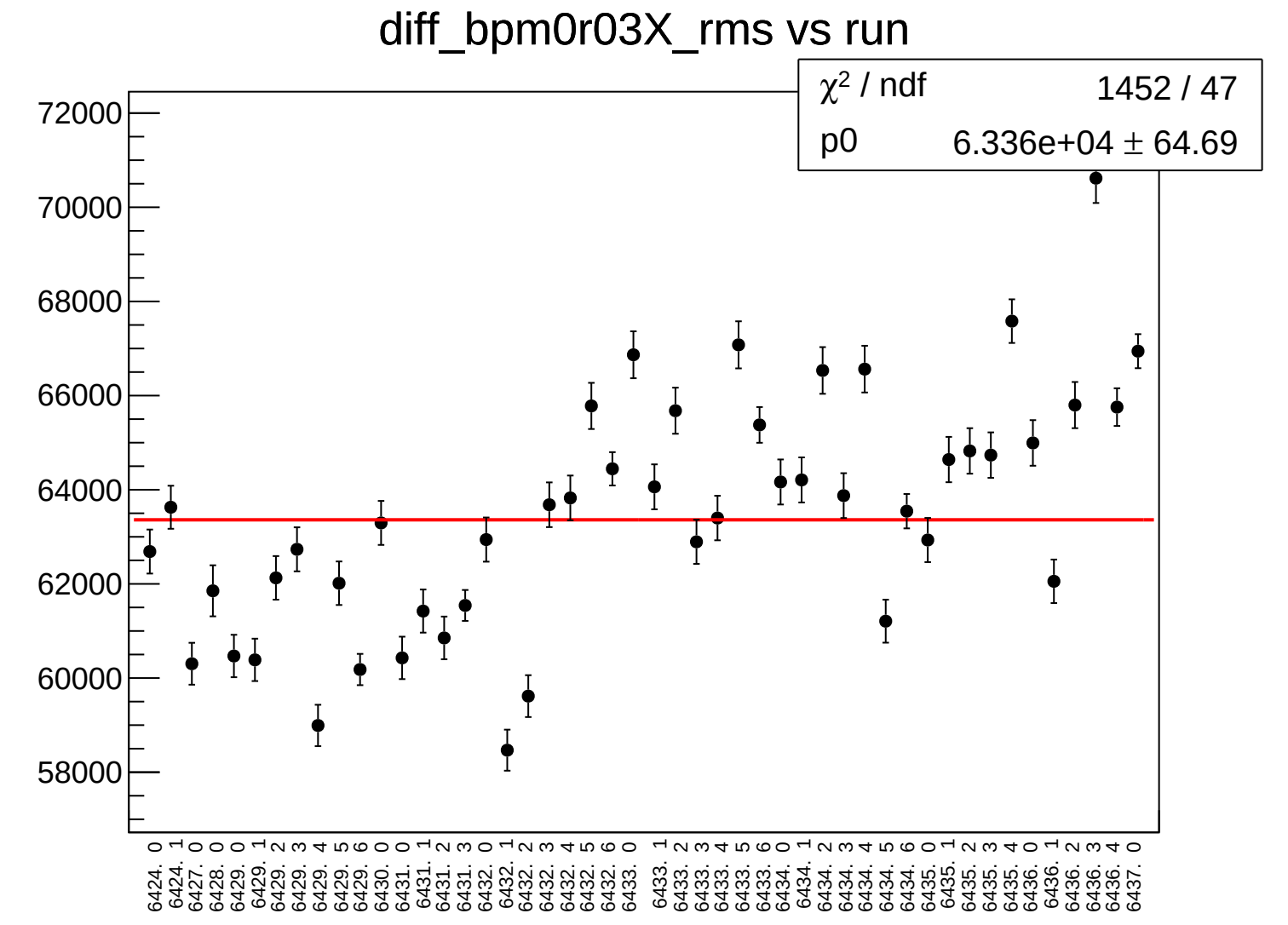
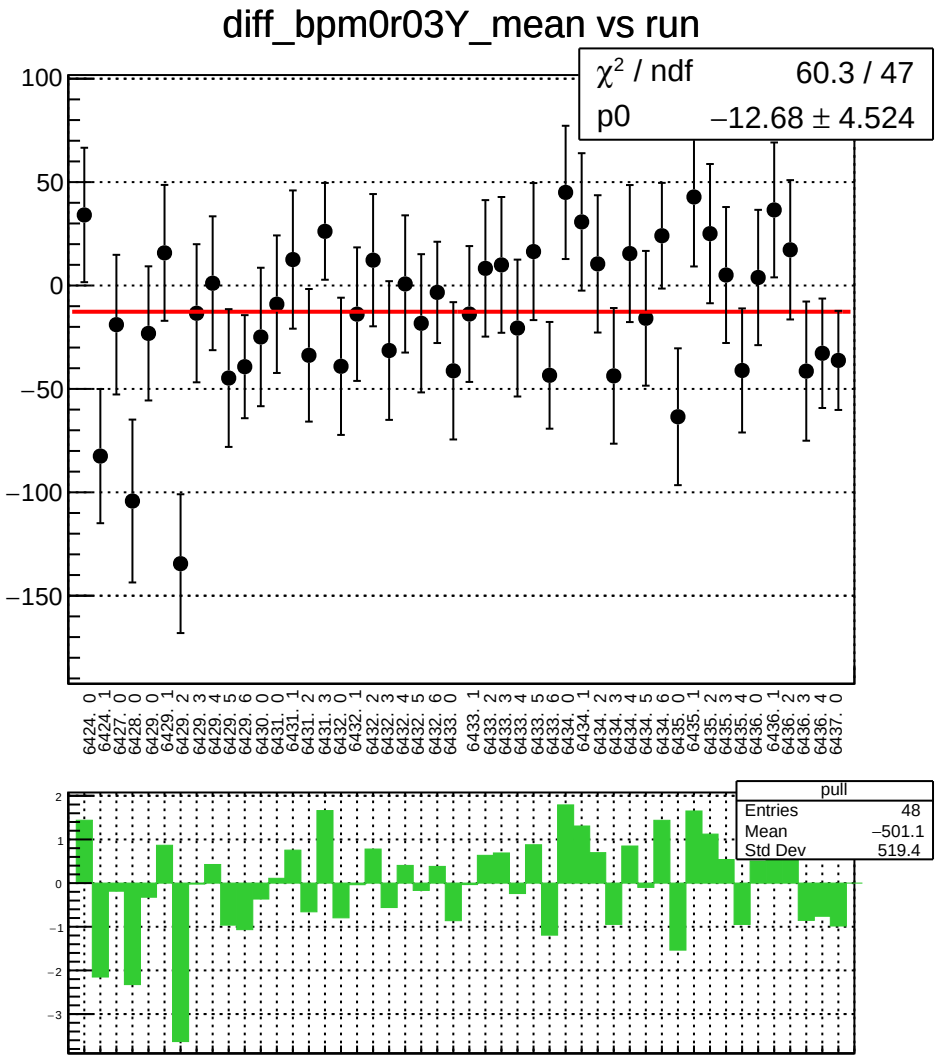
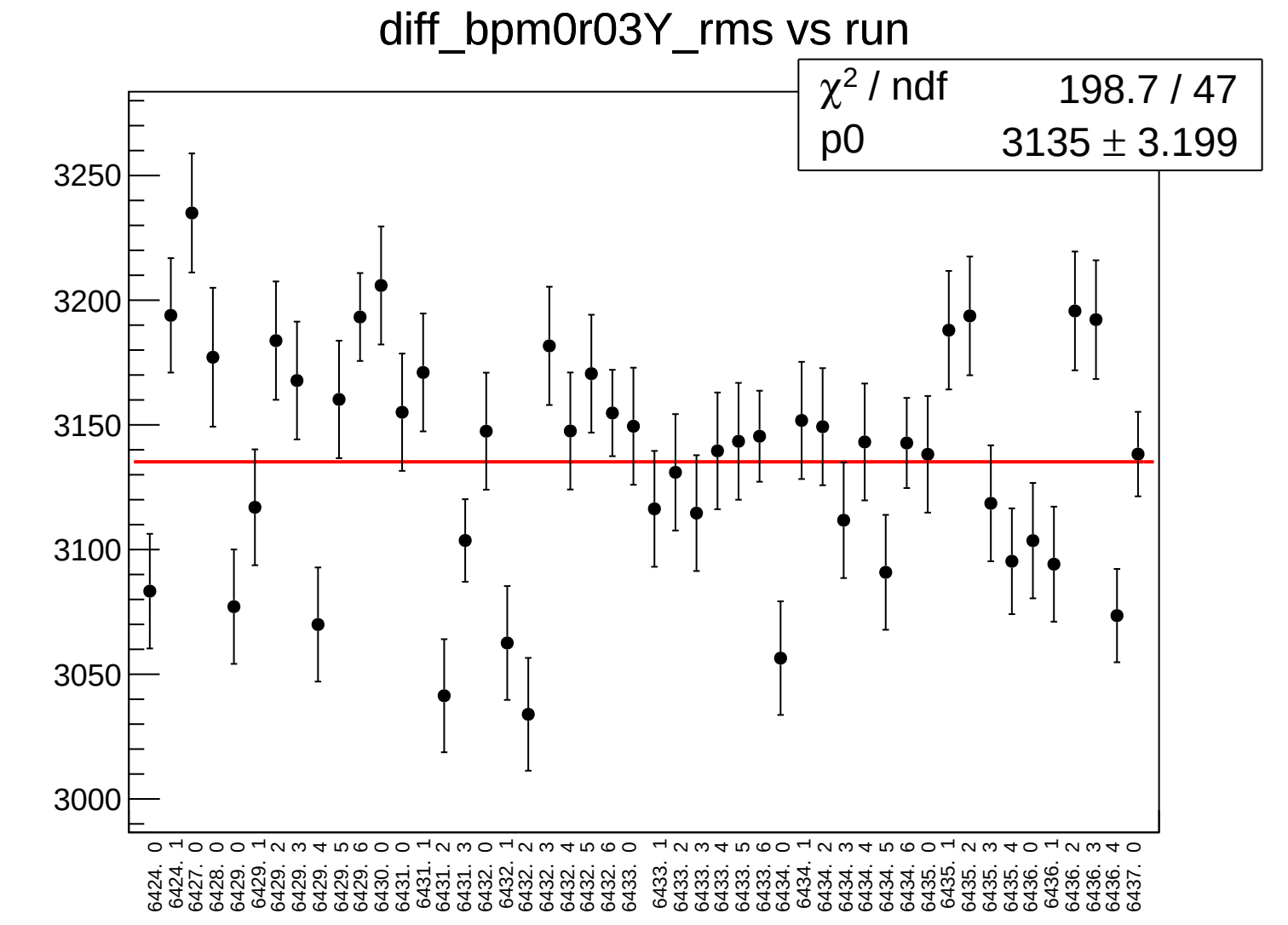
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

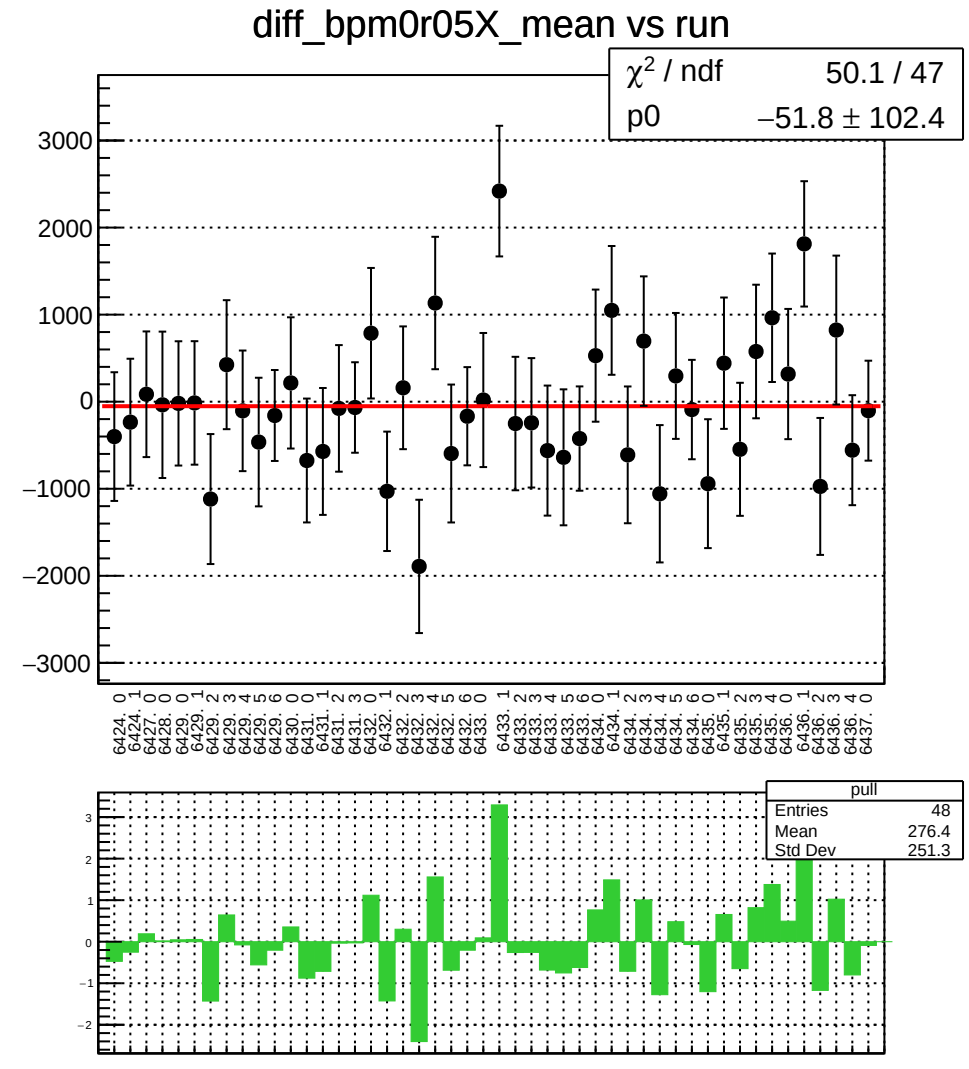

diff_bpm0r03X_mean vs run
χ² / ndf 58.56 / 47
p0 89.29 ± 91.48
3000
2000
1000
0
−1000
−2000
−3000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 388.8
Std Dev 362.8
3
2
1
0
−1
−2
−3

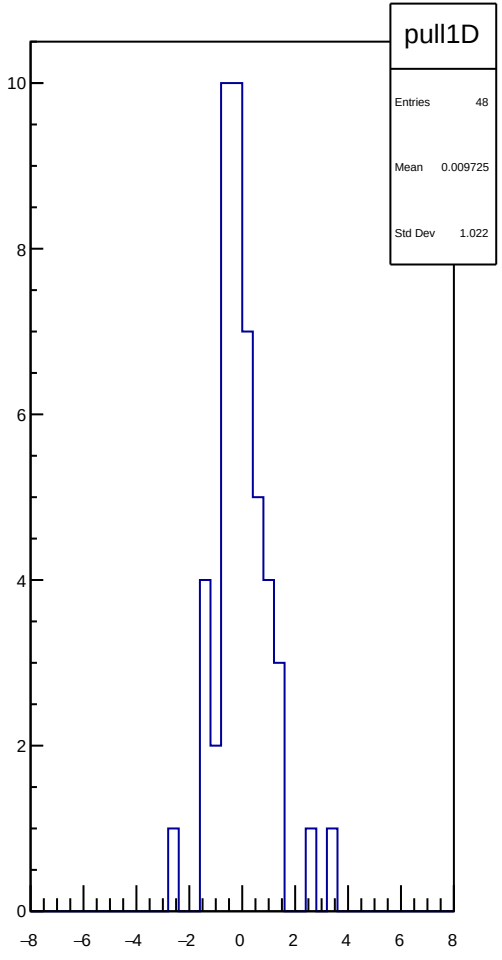

pull1D
Entries 48
Mean −0.008287
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

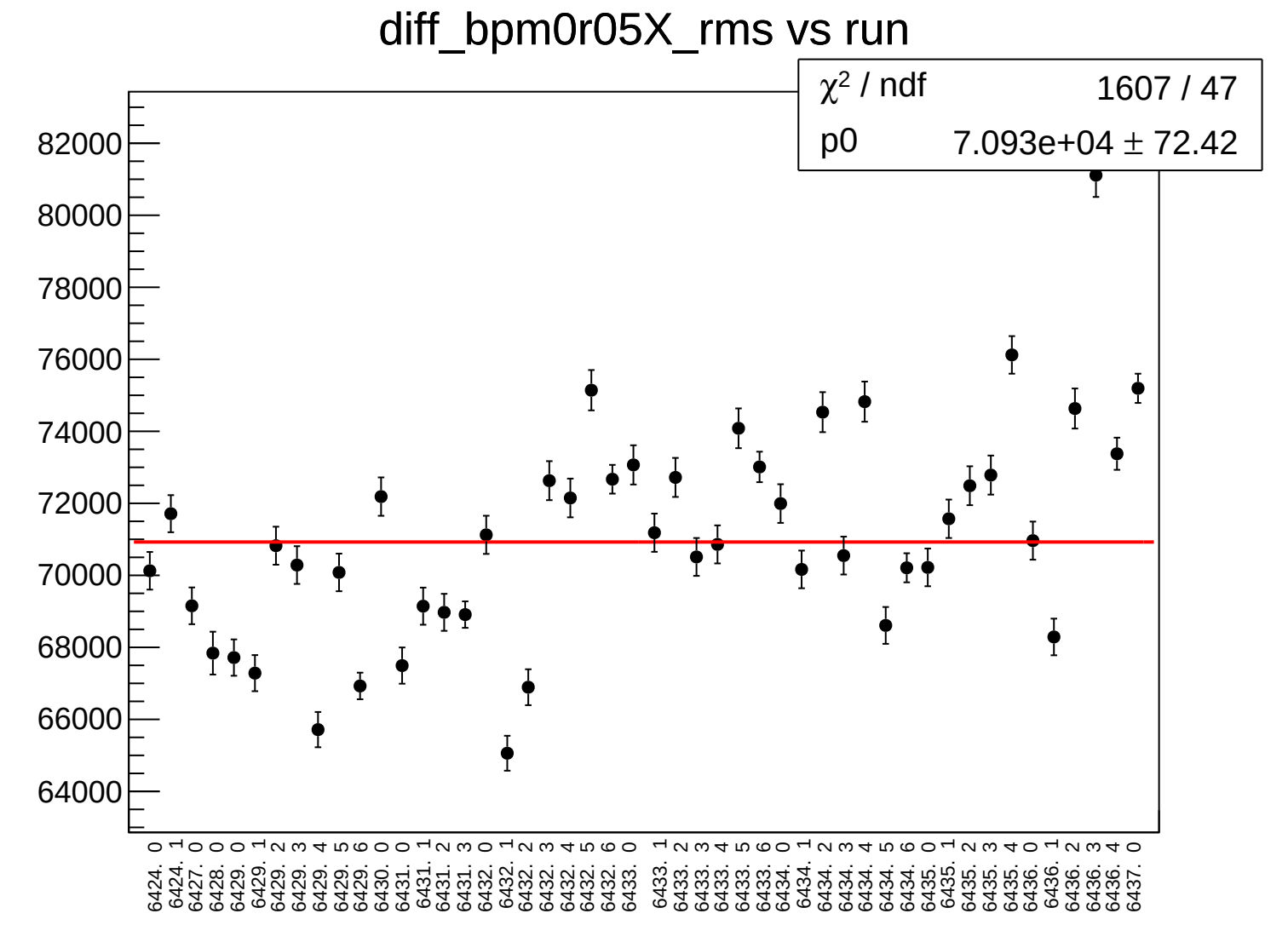

diff_bpm0r03X_rms vs run
χ² / ndf 1452 / 47
p0 6.336e+04 ± 64.69
72000
70000
68000
66000
64000
62000
60000
58000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

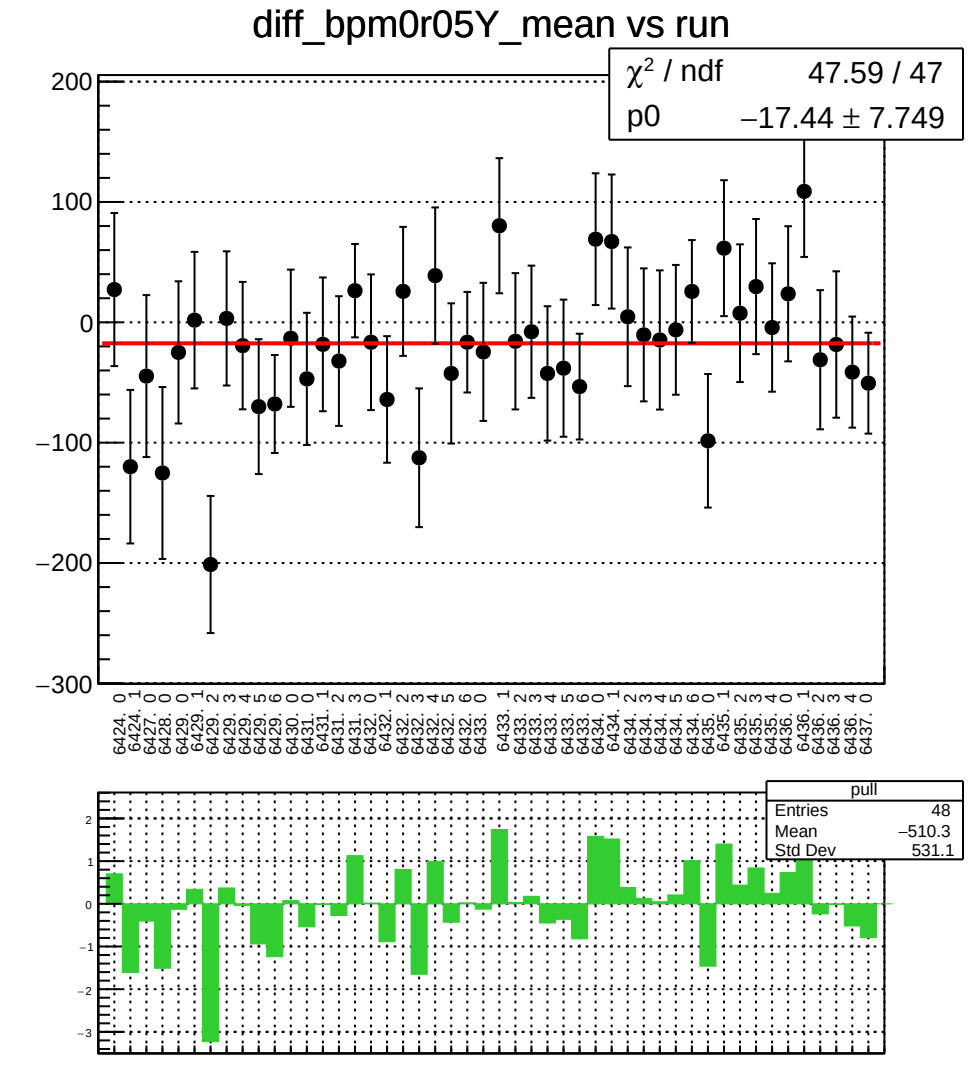

diff_bpm0r03Y_mean vs run
χ² / ndf 60.3 / 47
p0 −12.68 ± 4.524
100
50
0
−50
−100
−150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −501.1
Std Dev 519.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.007449
Std Dev 1.121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

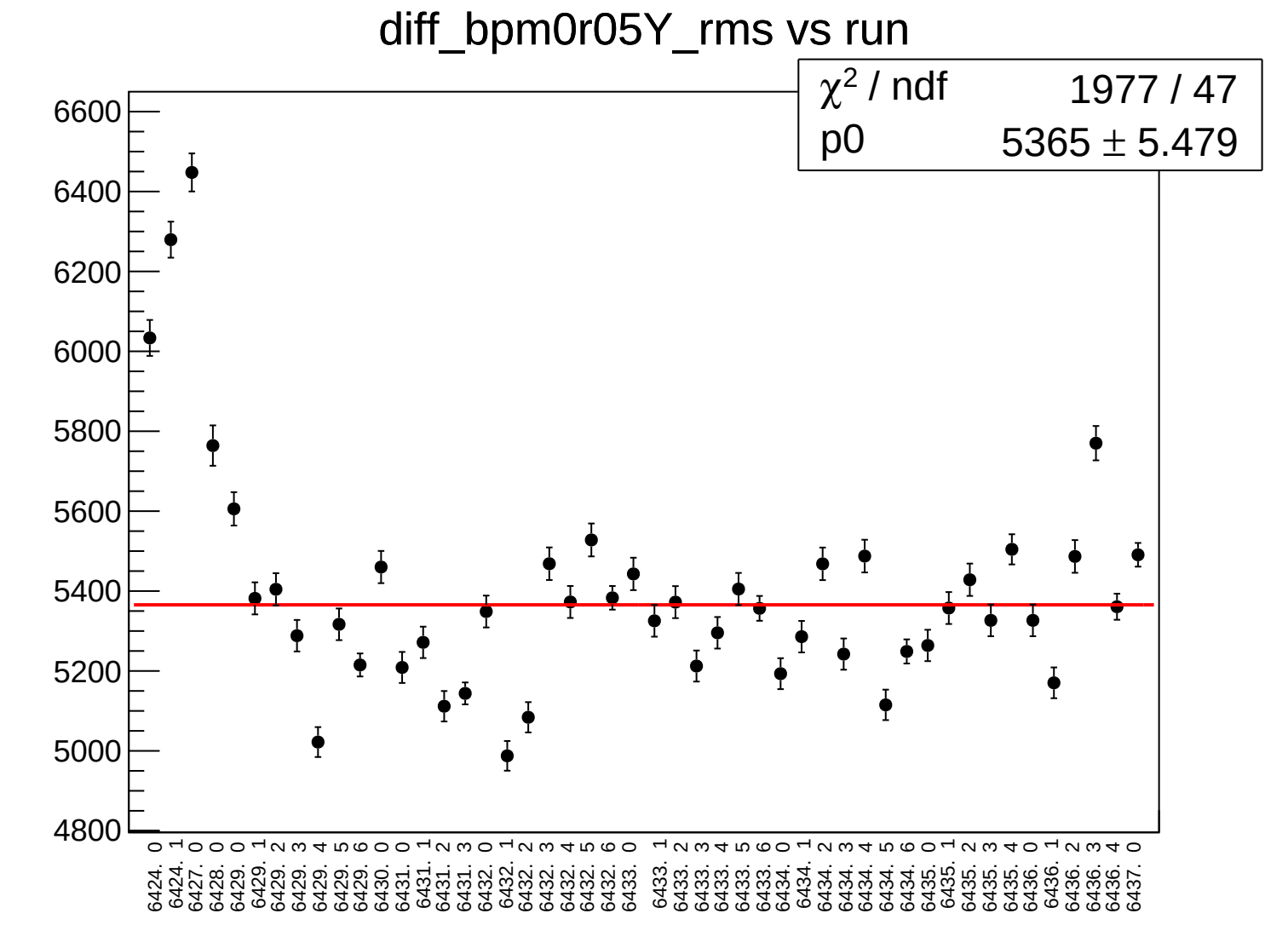

diff_bpm0r03Y_rms vs run
χ² / ndf 198.7 / 47
p0 3135 ± 3.199
3250
3200
3150
3100
3050
3000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

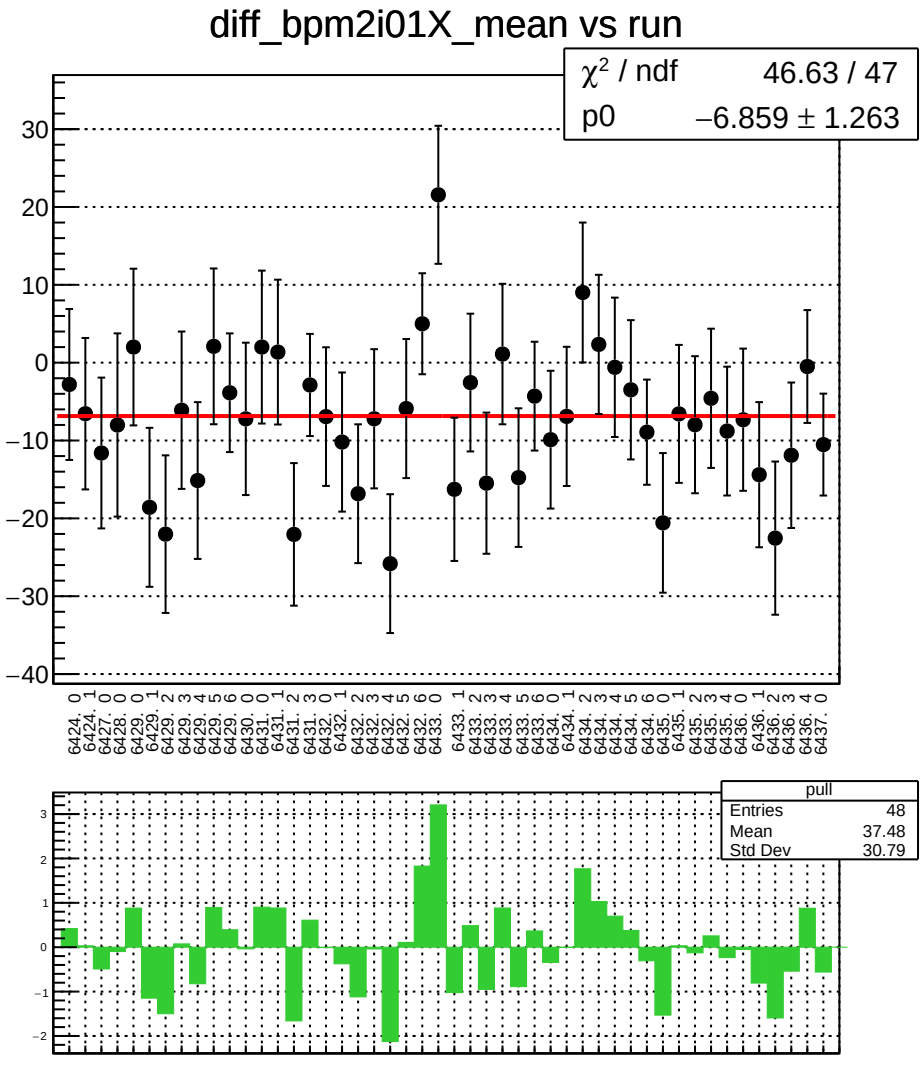

diff_bpm0r05X_mean vs run
χ² / ndf 50.1 / 47
p0 −51.8 ± 102.4
3000
2000
1000
0
−1000
−2000
−3000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 276.4
Std Dev 251.3
3
2
1
0
−1
−2

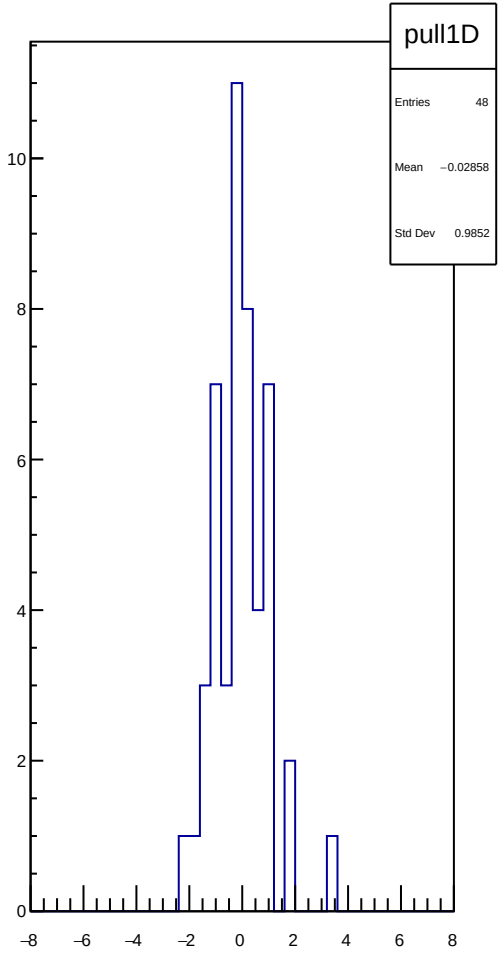

pull1D
Entries 48
Mean 0.009725
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

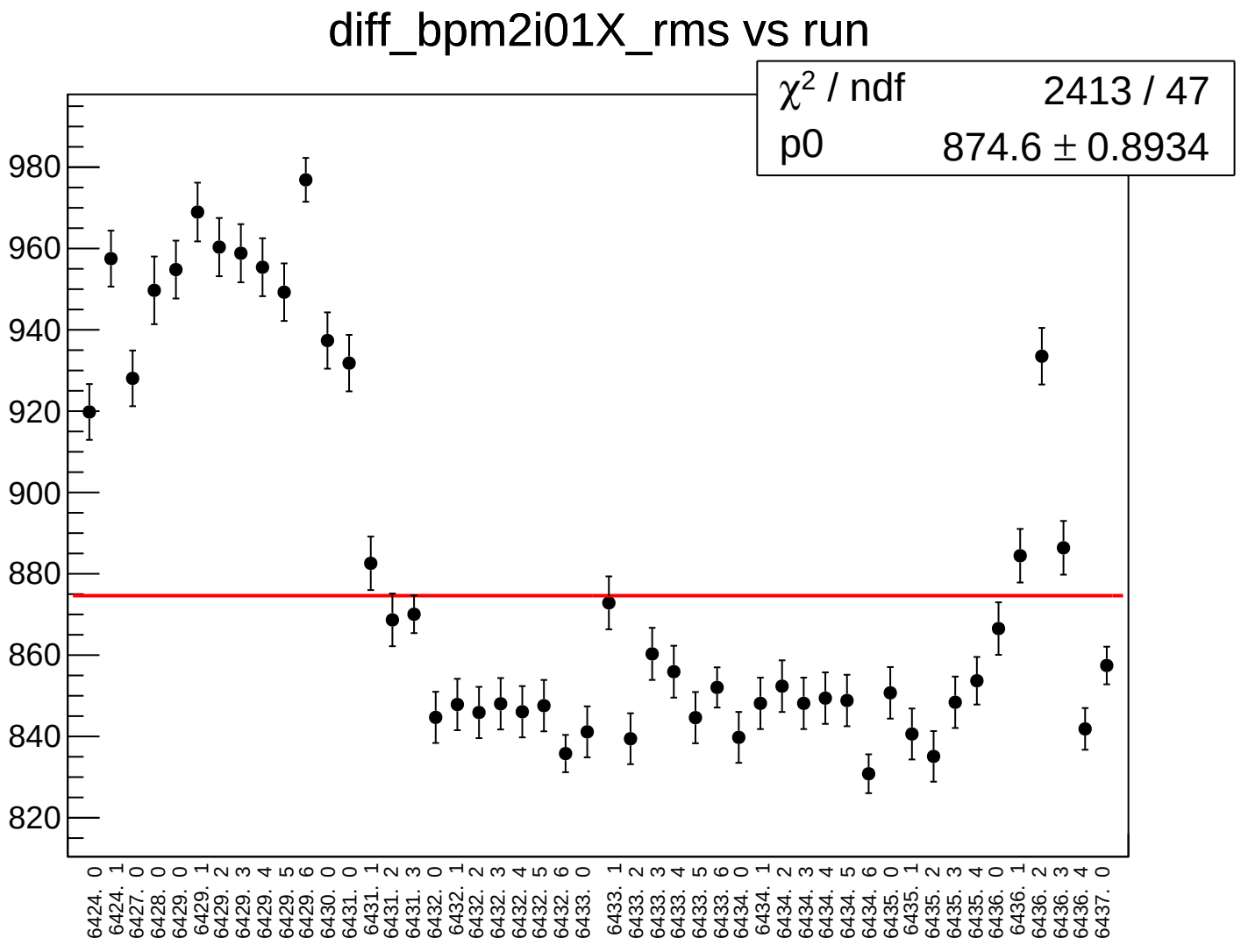

diff_bpm0r05X_rms vs run
χ² / ndf 1607 / 47
p0 7.093e+04 ± 72.42
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

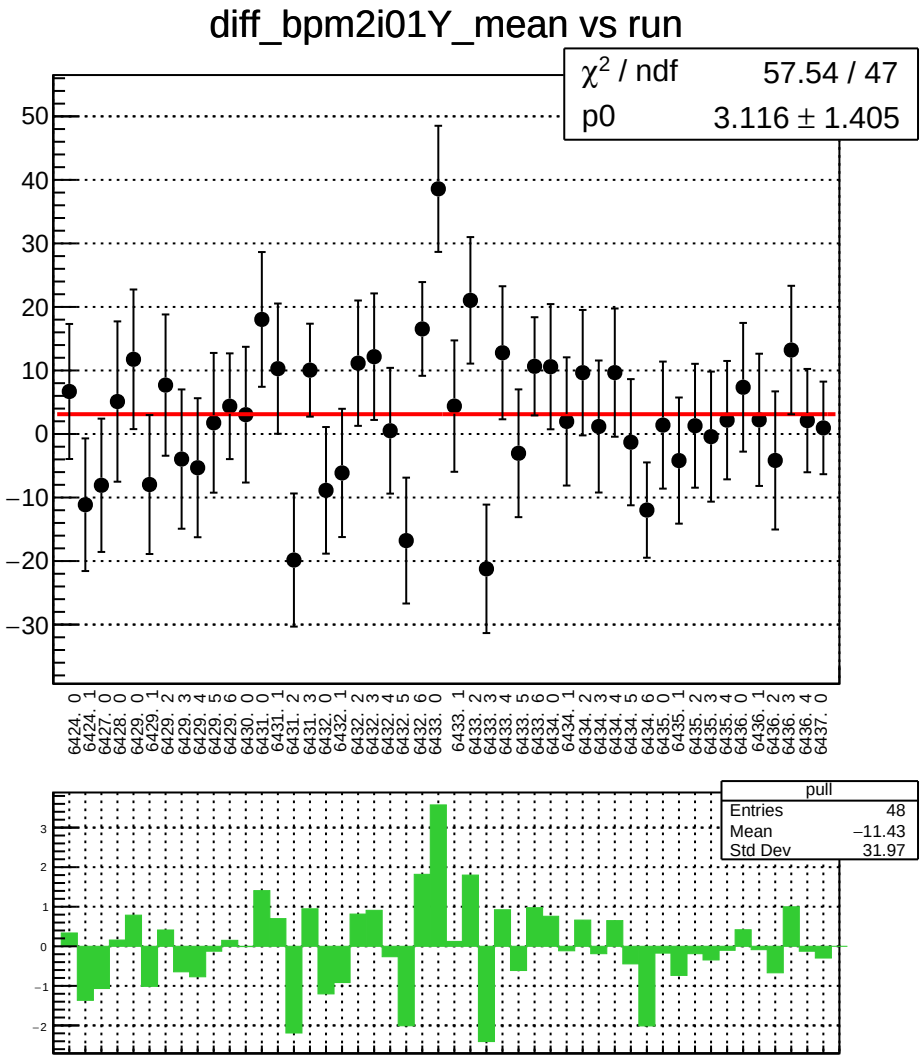

diff_bpm0r05Y_mean vs run
χ² / ndf 47.59 / 47
p0 −17.44 ± 7.749
200
100
0
−100
−200
−300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −510.3
Std Dev 531.1
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.008794
Std Dev 0.9957
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

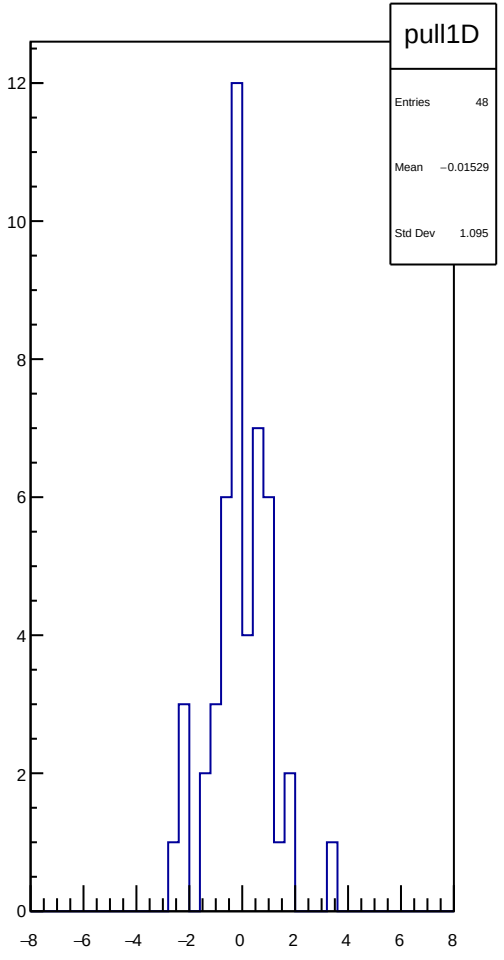

diff_bpm0r05Y_rms vs run
χ² / ndf 1977 / 47
p0 5365 ± 5.479
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

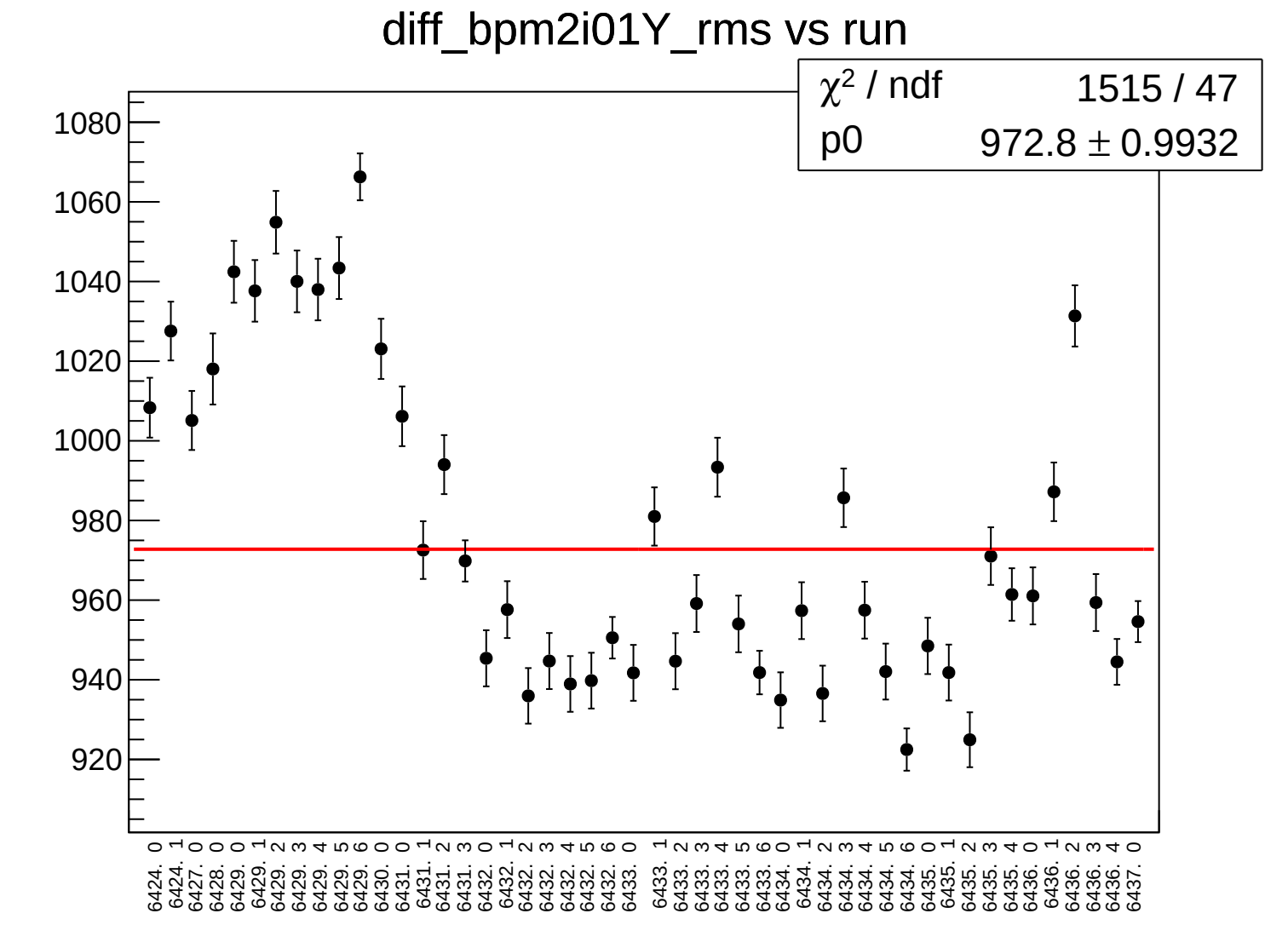

diff_bpm2i01X_mean vs run
χ² / ndf 46.63 / 47
p0 −6.859 ± 1.263
pull
Entries 48
Mean 37.48
Std Dev 30.79

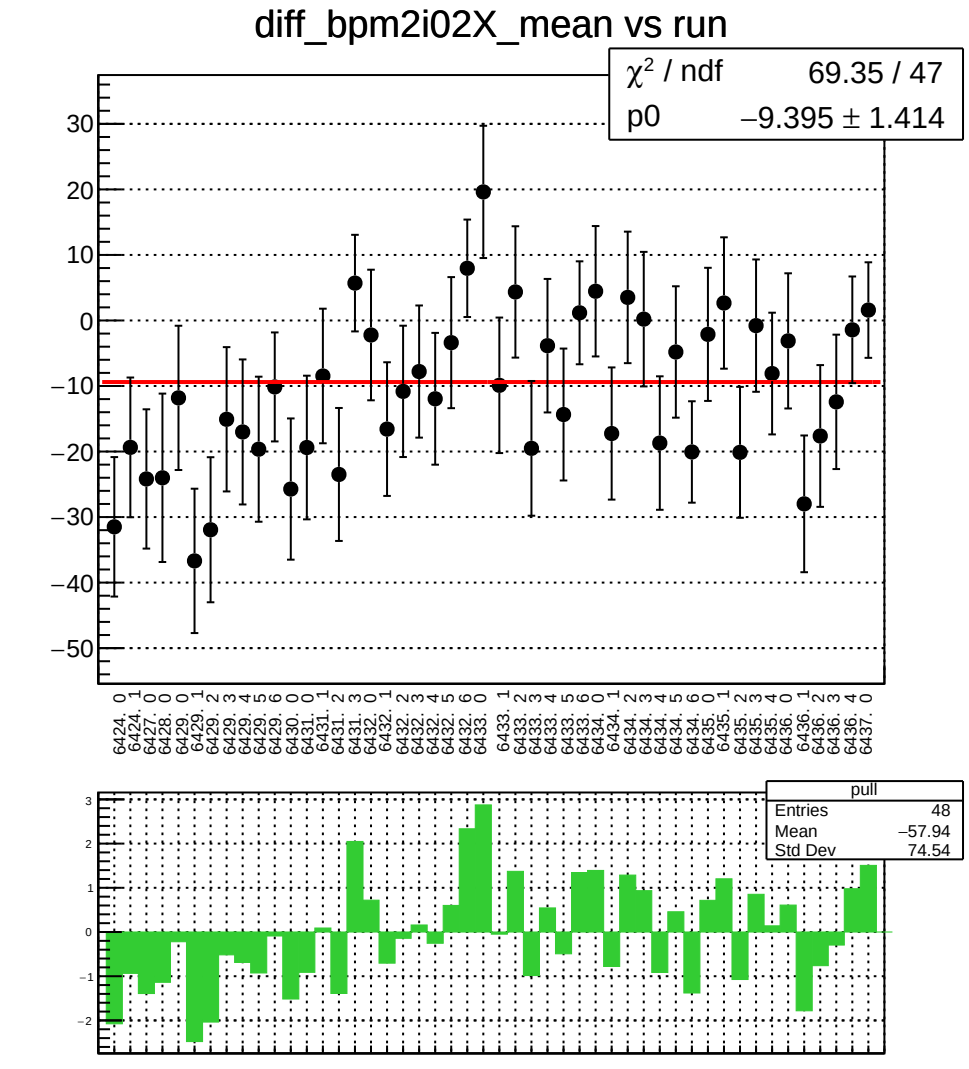

pull1D
Entries 48
Mean −0.02858
Std Dev 0.9852

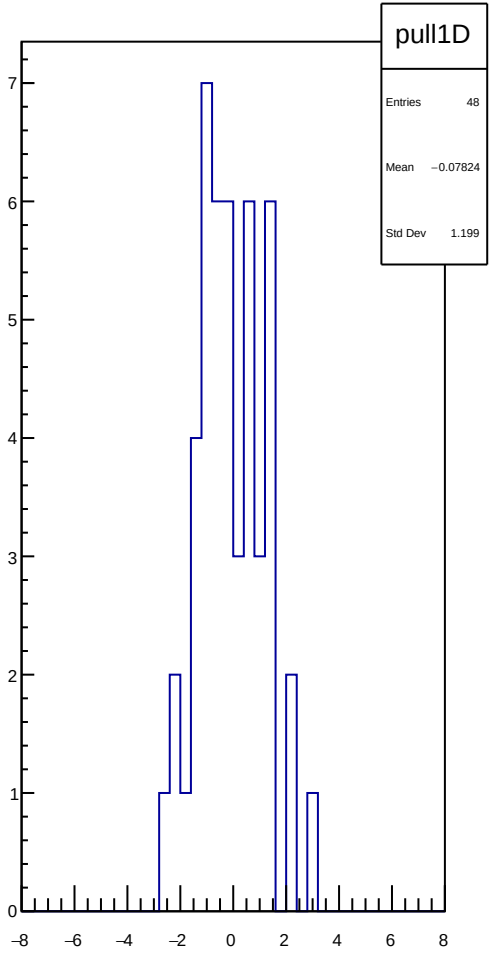

diff_bpm2i01X_rms vs run
χ² / ndf 2413 / 47
p0 874.6 ± 0.8934
980
960
940
920
900
880
860
840
820
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

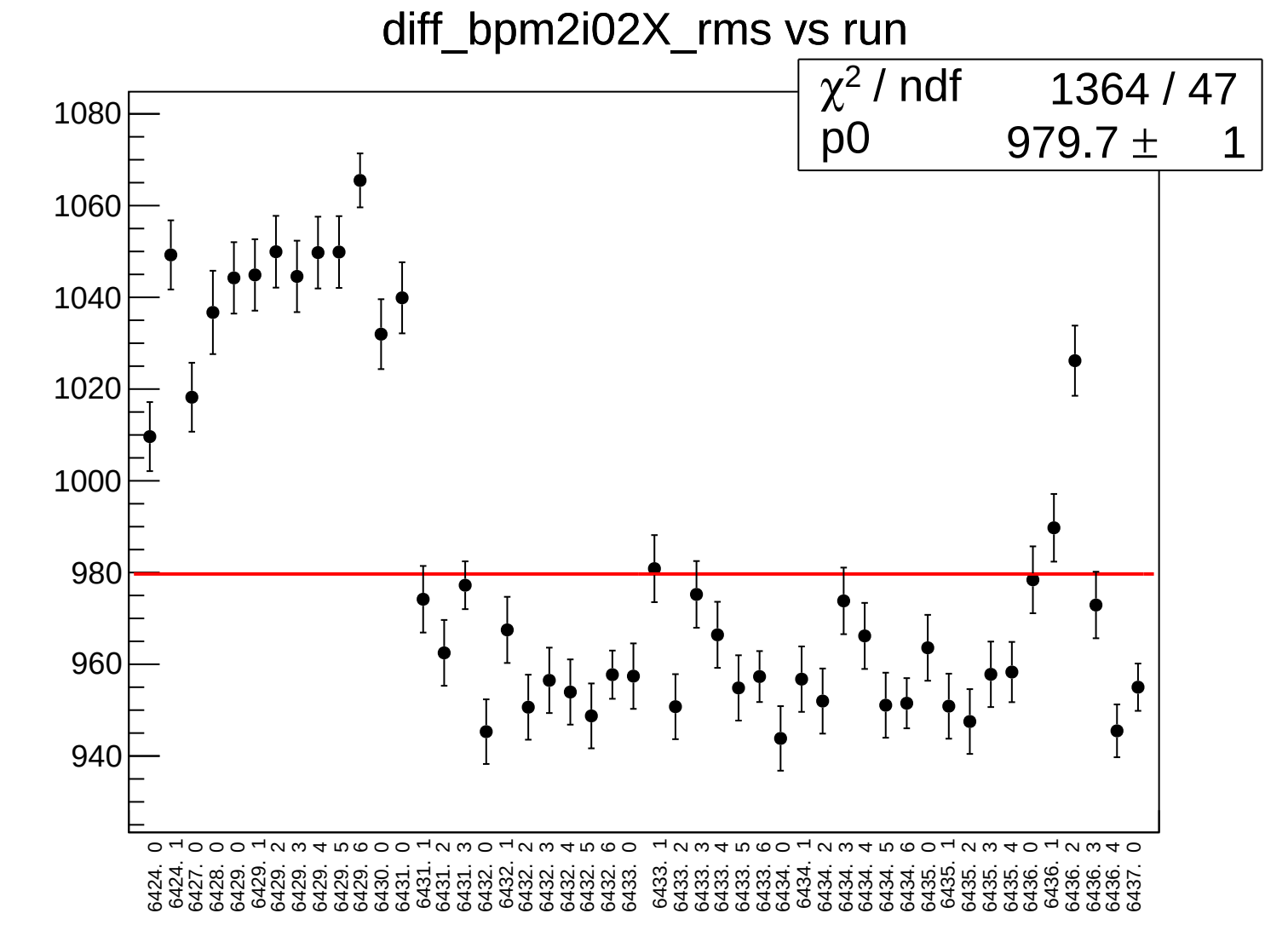

diff_bpm2i01Y_mean vs run
χ² / ndf 57.54 / 47
p0 3.116 ± 1.405
pull
Entries 48
Mean −11.43
Std Dev 31.97

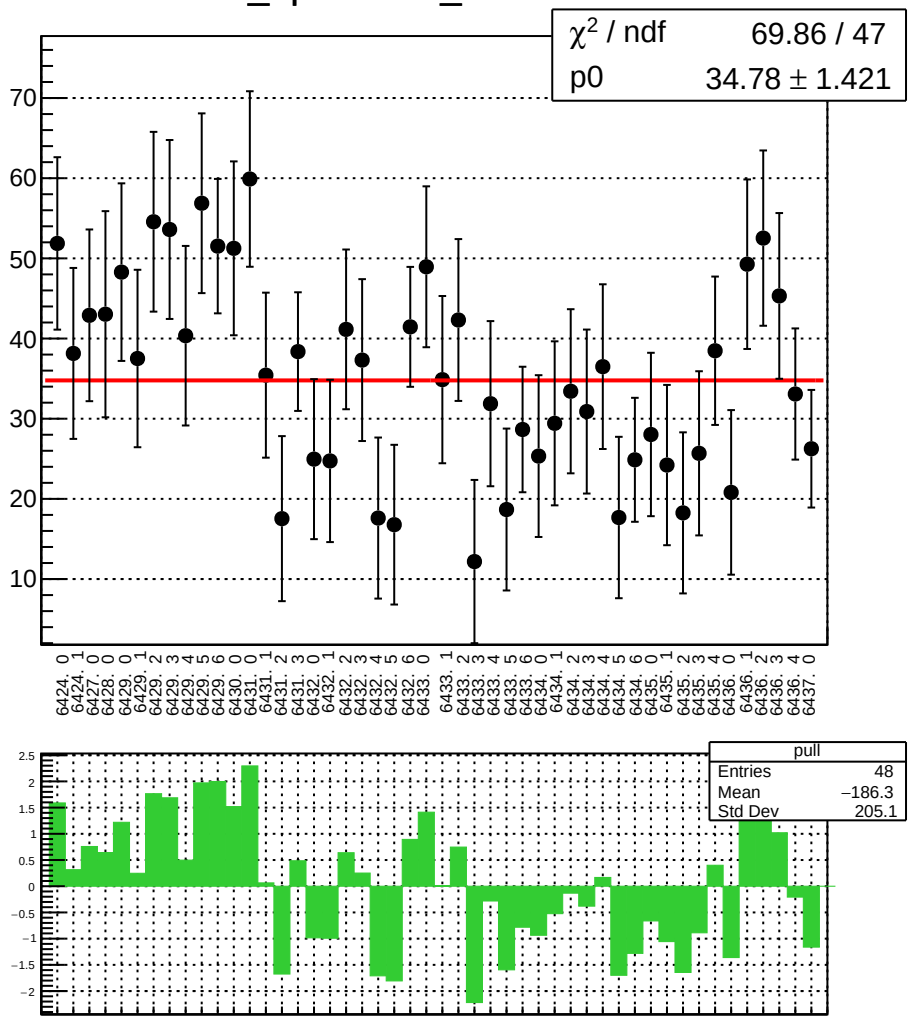

pull1D
Entries 48
Mean −0.01529
Std Dev 1.095

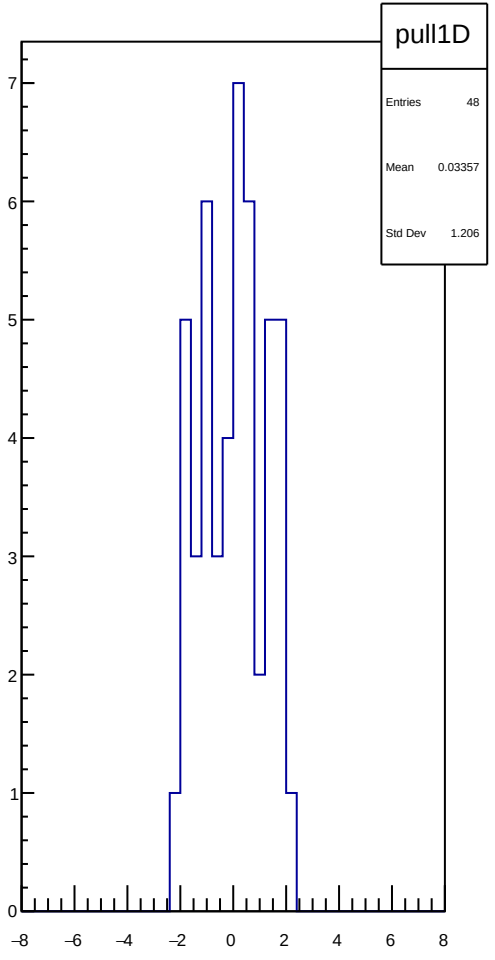

diff_bpm2i01Y_rms vs run
χ² / ndf 1515 / 47
p0 972.8 ± 0.9932
1080
1060
1040
1020
1000
980
960
940
920
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

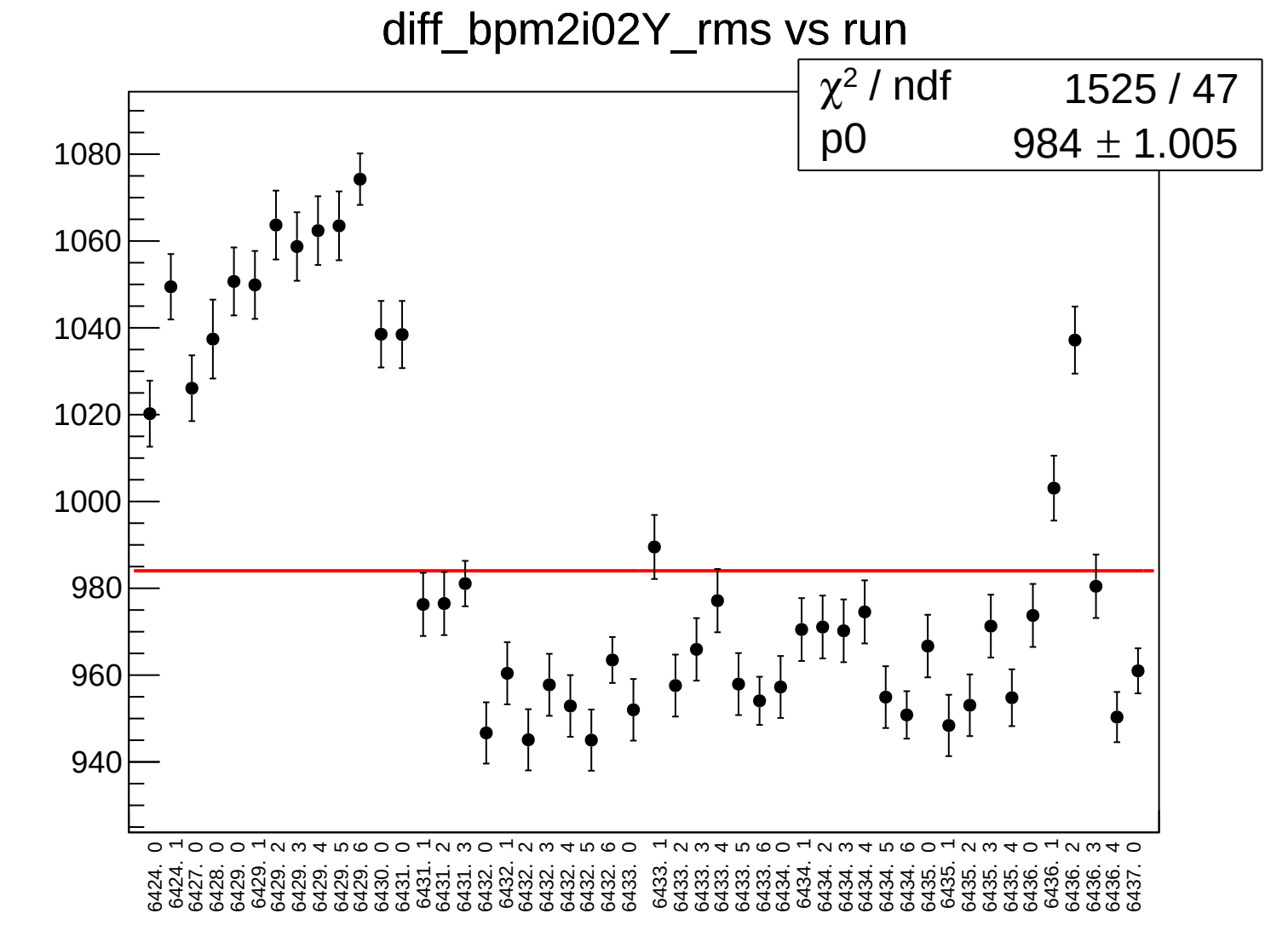

diff_bpm2i02X_mean vs run
χ² / ndf 69.35 / 47
p0 −9.395 ± 1.414
pull
Entries 48
Mean −57.94
Std Dev 74.54


pull1D
Entries 48
Mean −0.07824
Std Dev 1.199


diff_bpm2i02X_rms vs run
χ² / ndf 1364 / 47
p0 979.7 ± 1
1080
1060
1040
1020
1000
980
960
940
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


diff_bpm2i02Y_mean vs run
χ^2 / ndf 69.86 / 47
p0 34.78 ± 1.421
pull
Entries 48
Mean −186.3
Std Dev 205.1


pull1D
Entries 48
Mean 0.03357
Std Dev 1.206


diff_bpm2i02Y_rms vs run
χ² / ndf 1525 / 47
p0 984 ± 1.005
1080
1060
1040
1020
1000
980
960
940
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
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6433. 6
6434. 0
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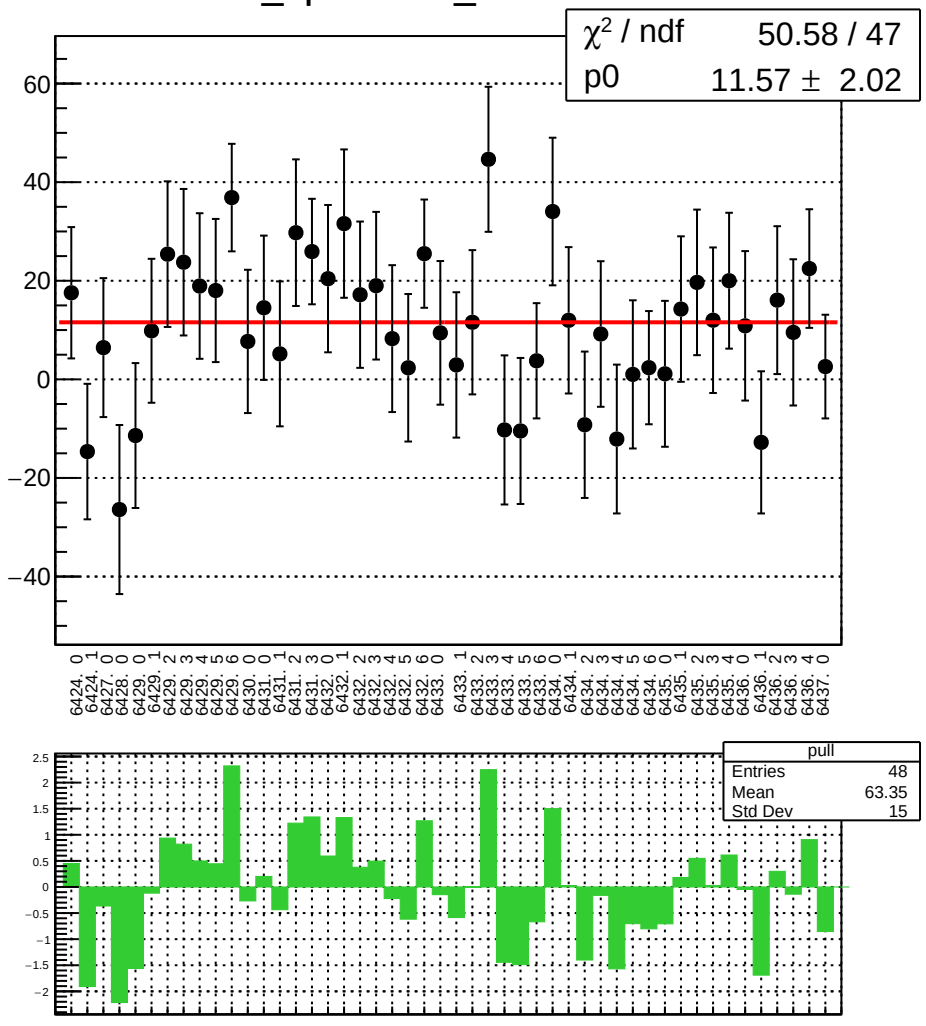
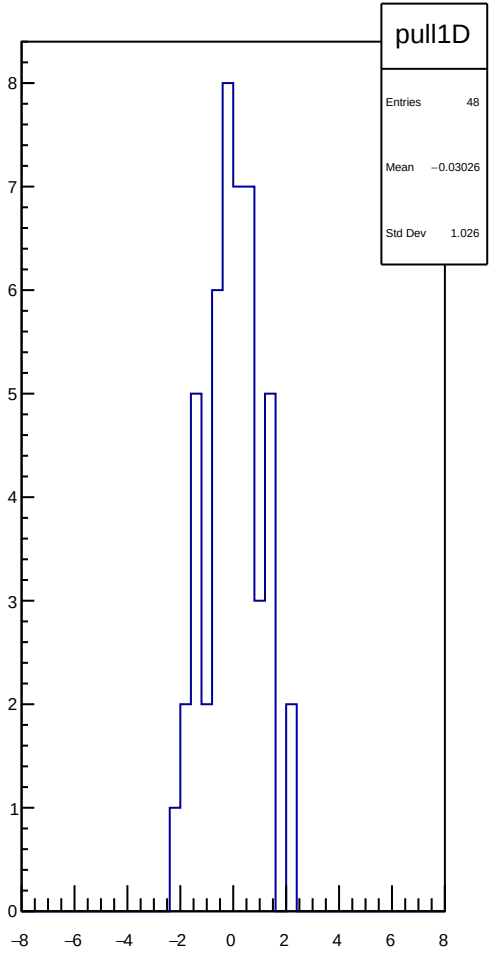
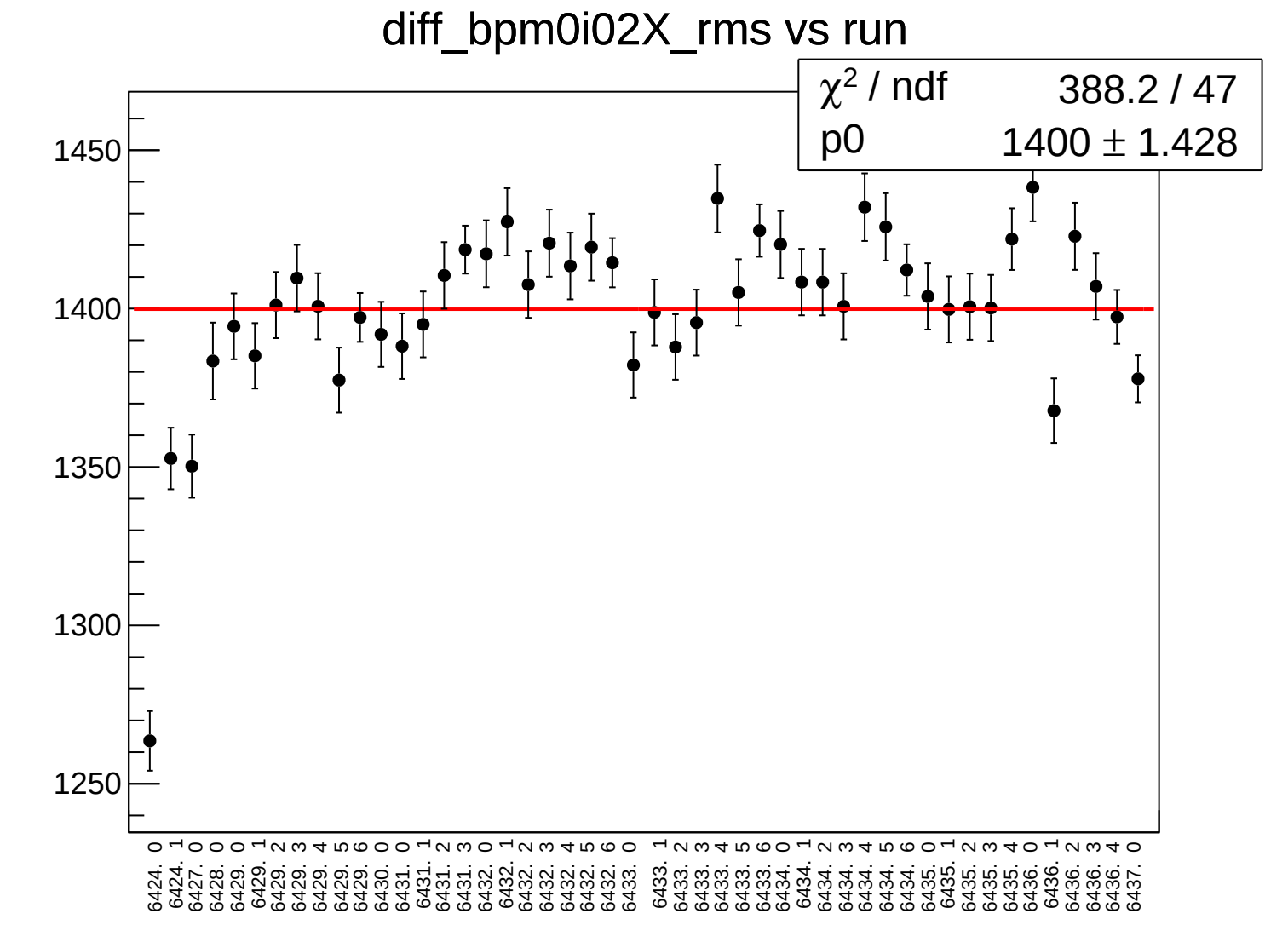
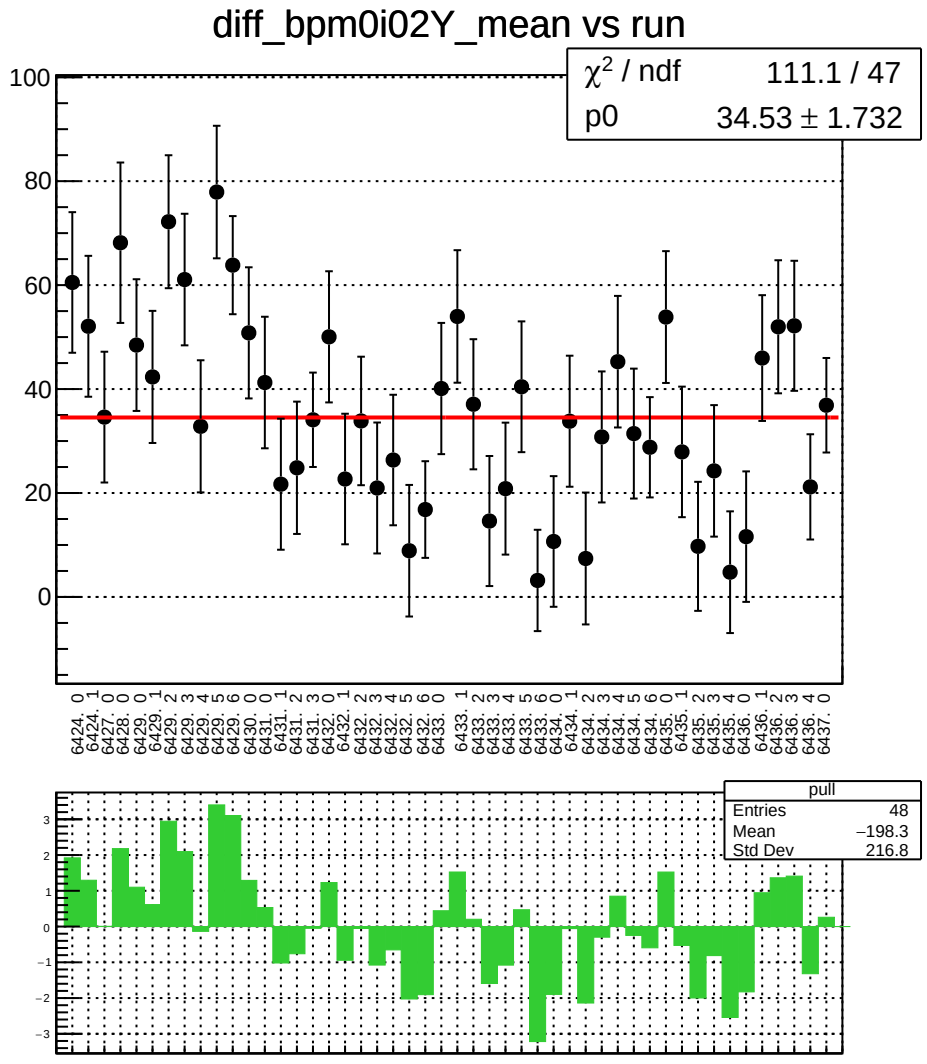
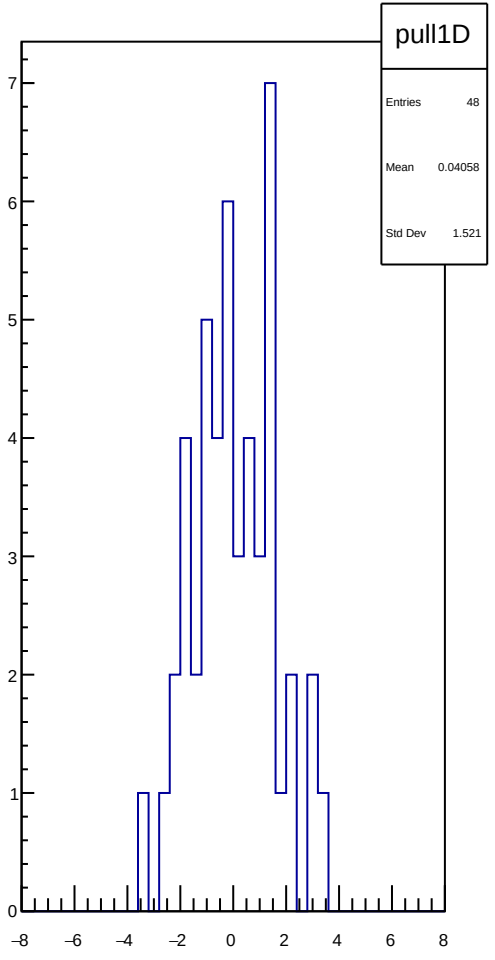
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

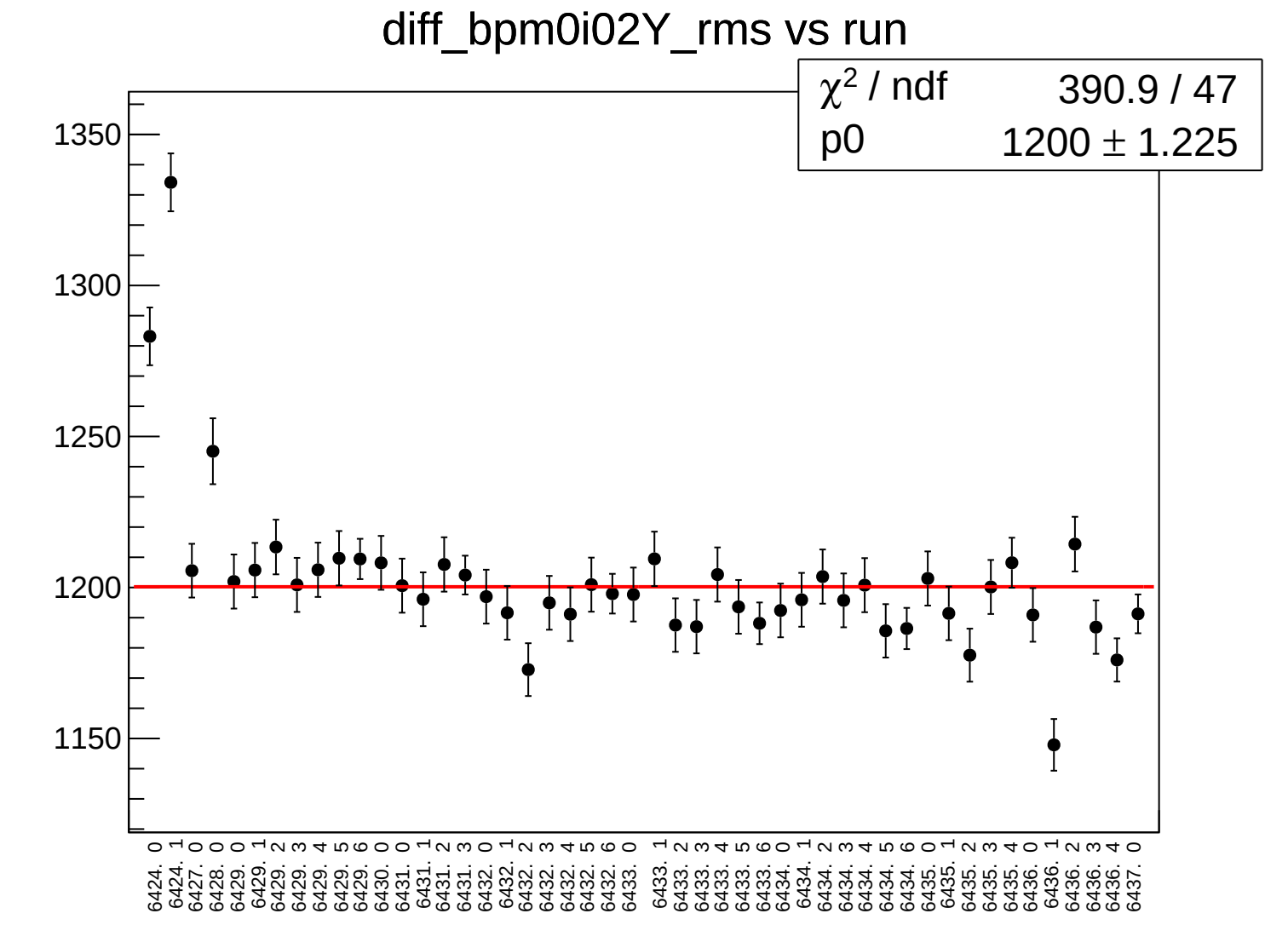

diff_bpm0i02X_mean vs run
χ² / ndf 50.58 / 47
p0 11.57 ± 2.02
pull
Entries 48
Mean 63.35
Std Dev 15

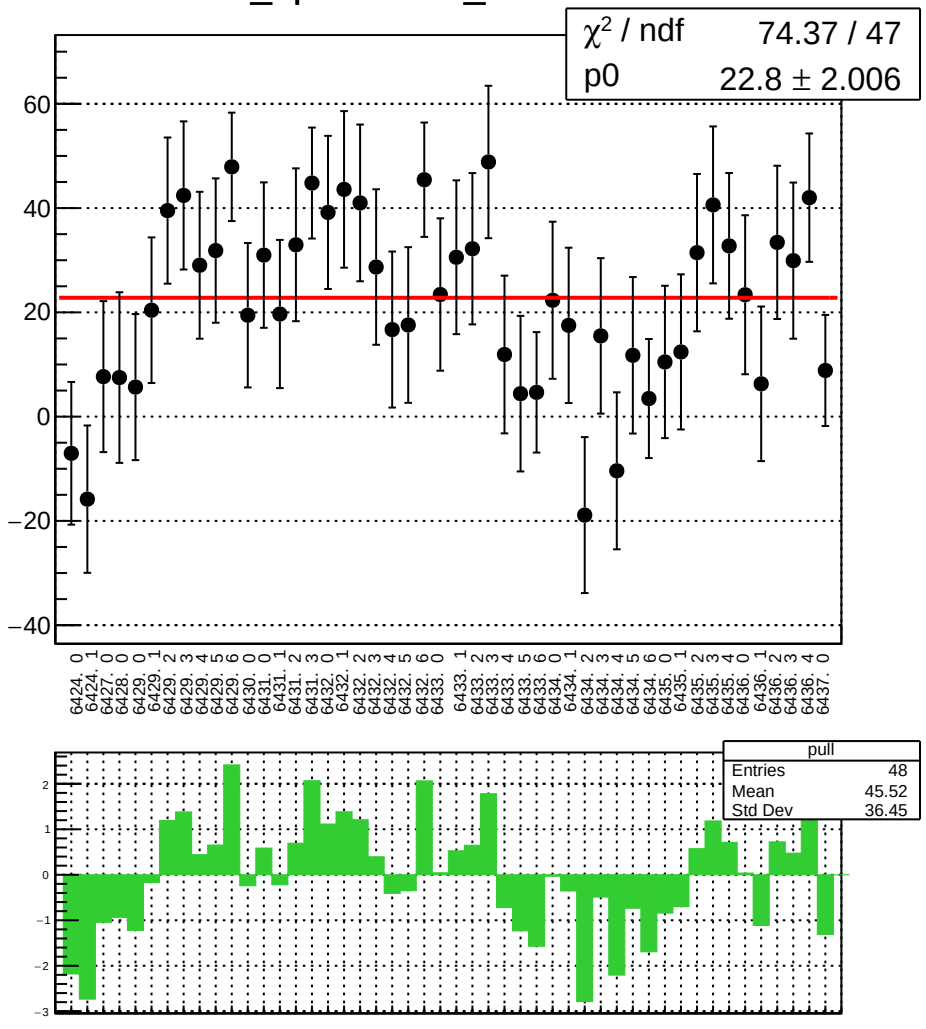

pull1D
Entries 48
Mean −0.03026
Std Dev 1.026

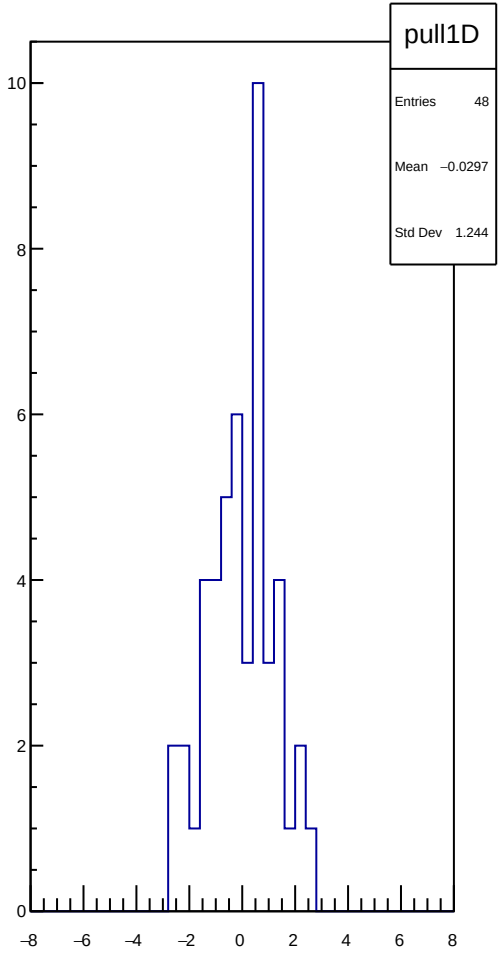

diff_bpm0i02X_rms vs run
χ² / ndf 388.2 / 47
p0 1400 ± 1.428
1450
1400
1350
1300
1250
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

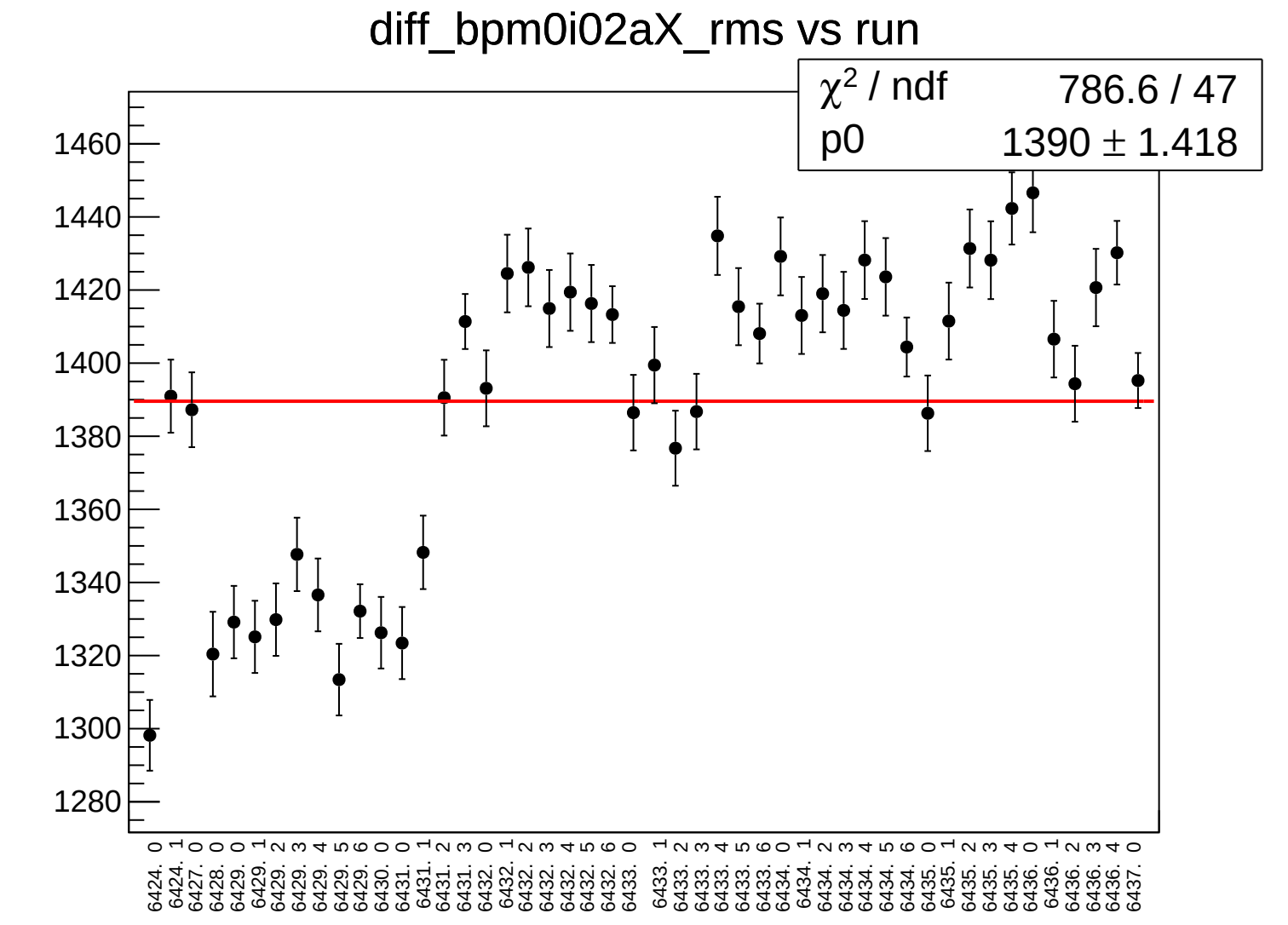

diff_bpm0i02Y_mean vs run
χ^2 / ndf 111.1 / 47
p0 34.53 ± 1.732
pull
Entries 48
Mean −198.3
Std Dev 216.8

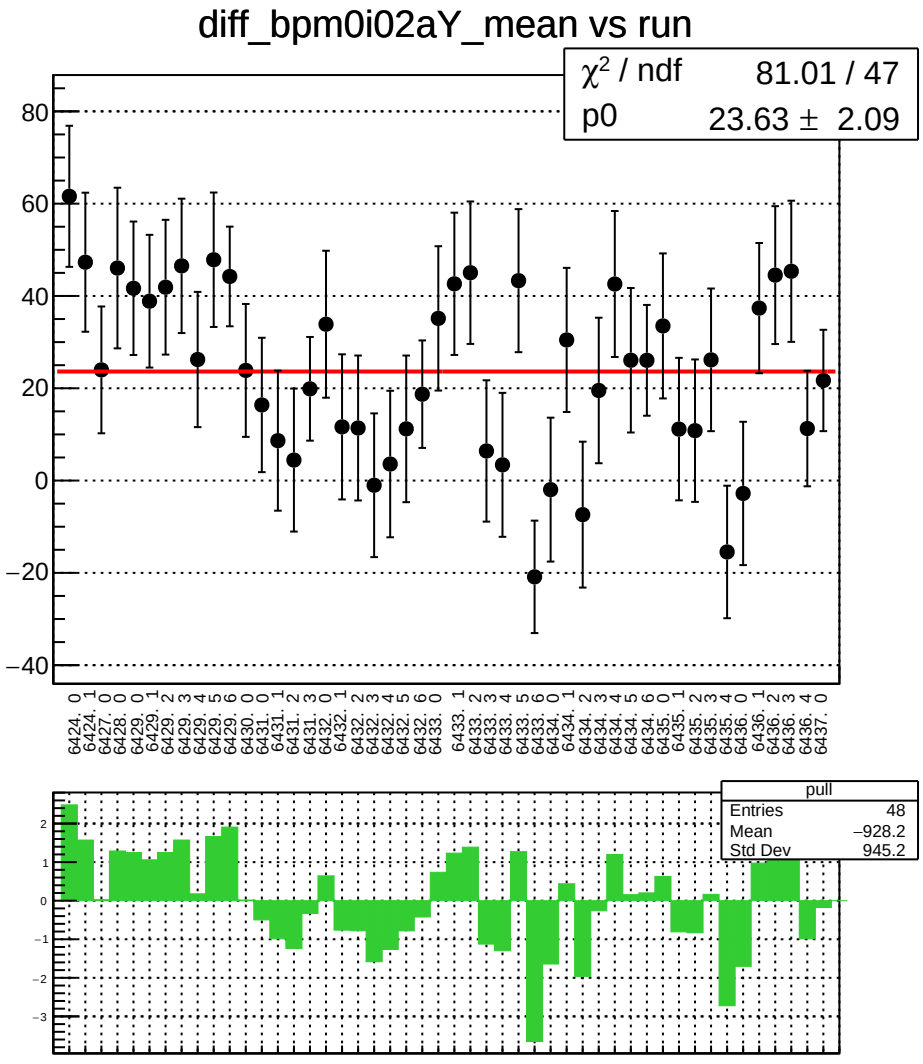

pull1D
Entries 48
Mean 0.04058
Std Dev 1.521

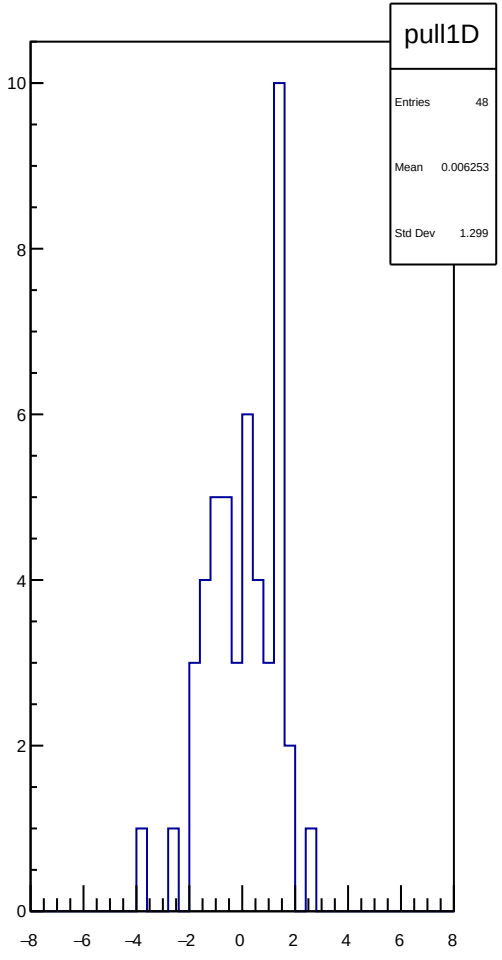

diff_bpm0i02Y_rms vs run
χ² / ndf 390.9 / 47
p0 1200 ± 1.225
1350
1300
1250
1200
1150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

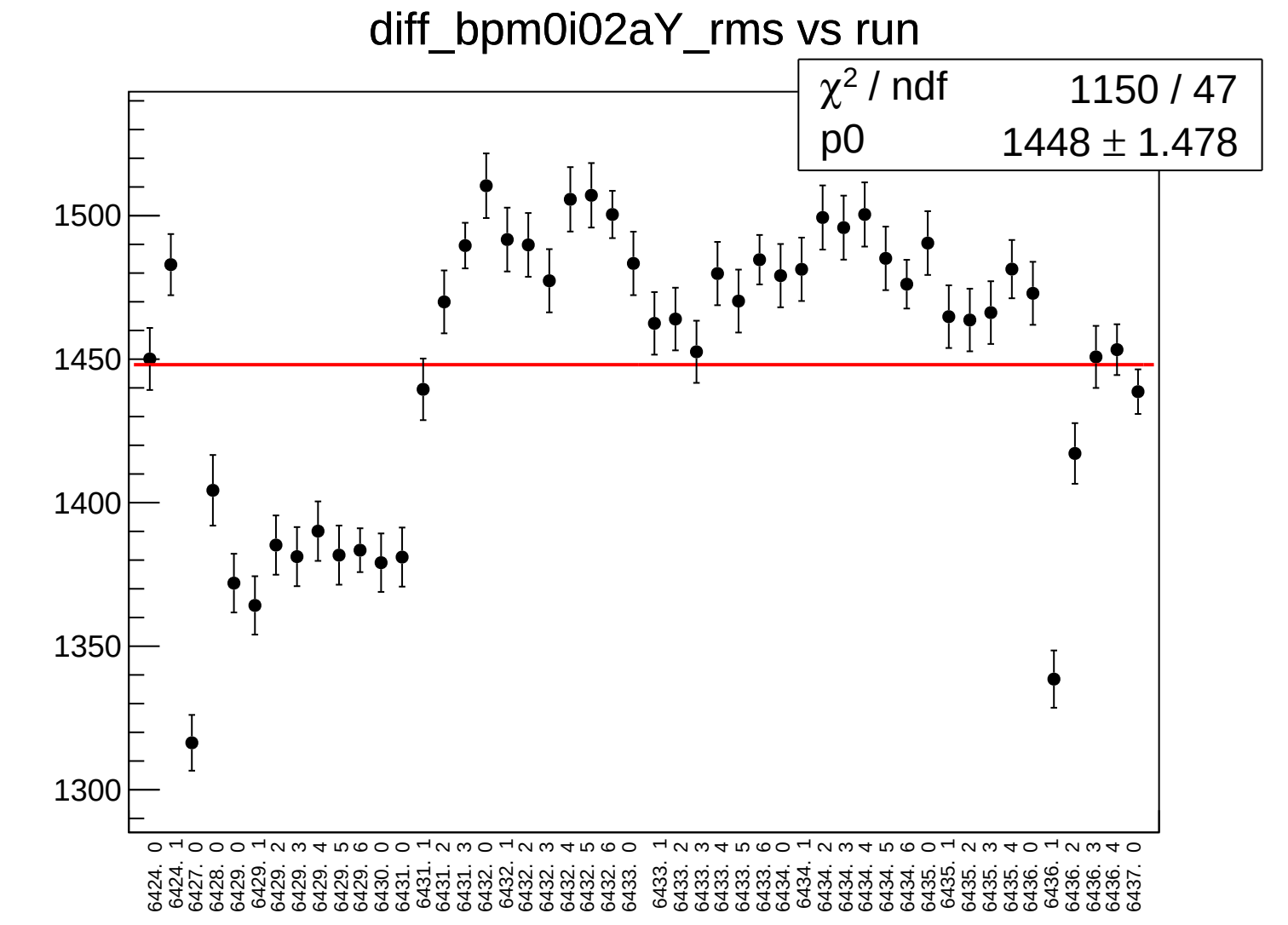

diff_bpm0i02aX_mean vs run
χ² / ndf 74.37 / 47
p0 22.8 ± 2.006
pull
Entries 48
Mean 45.52
Std Dev 36.45

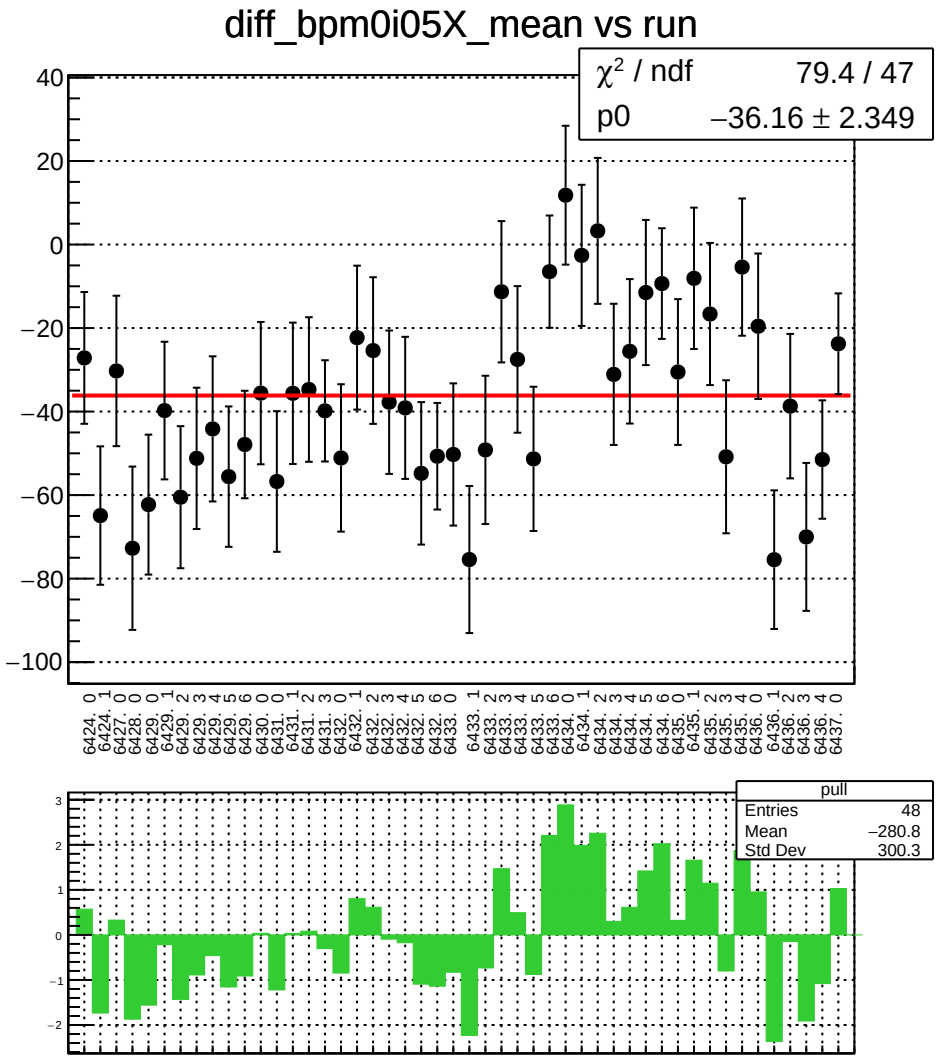

pull1D
Entries 48
Mean −0.0297
Std Dev 1.244

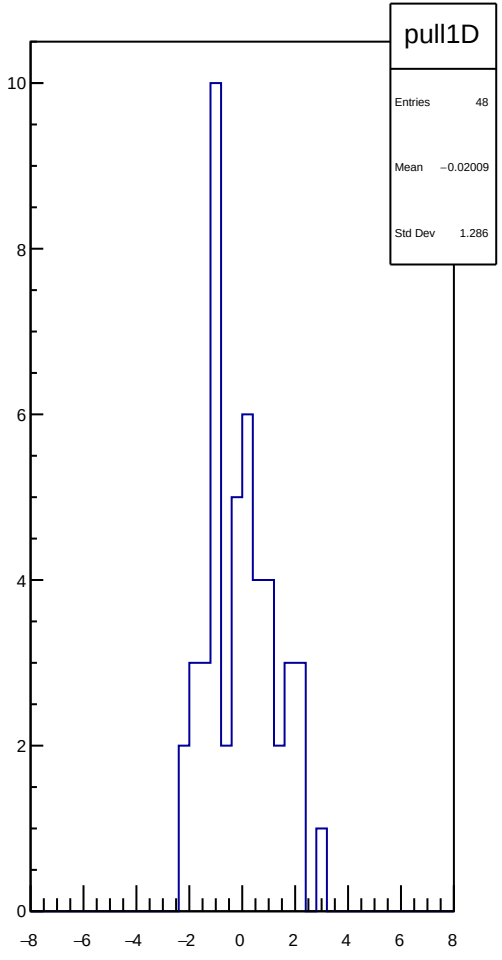

diff_bpm0i02aX_rms vs run
χ² / ndf 786.6 / 47
p0 1390 ± 1.418
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

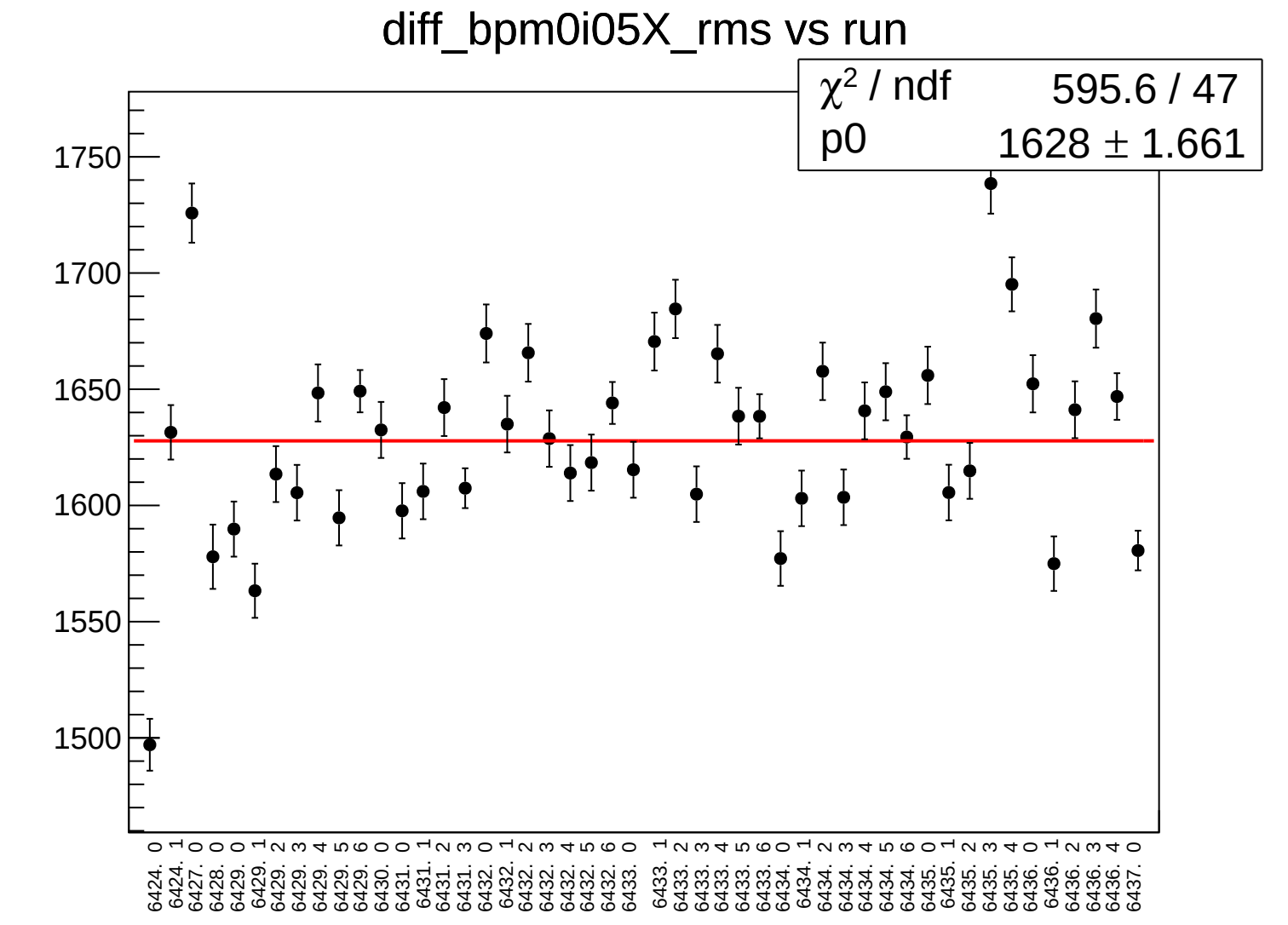

diff_bpm0i02aY_mean vs run
χ² / ndf 81.01 / 47
p0 23.63 ± 2.09
pull
Entries 48
Mean −928.2
Std Dev 945.2

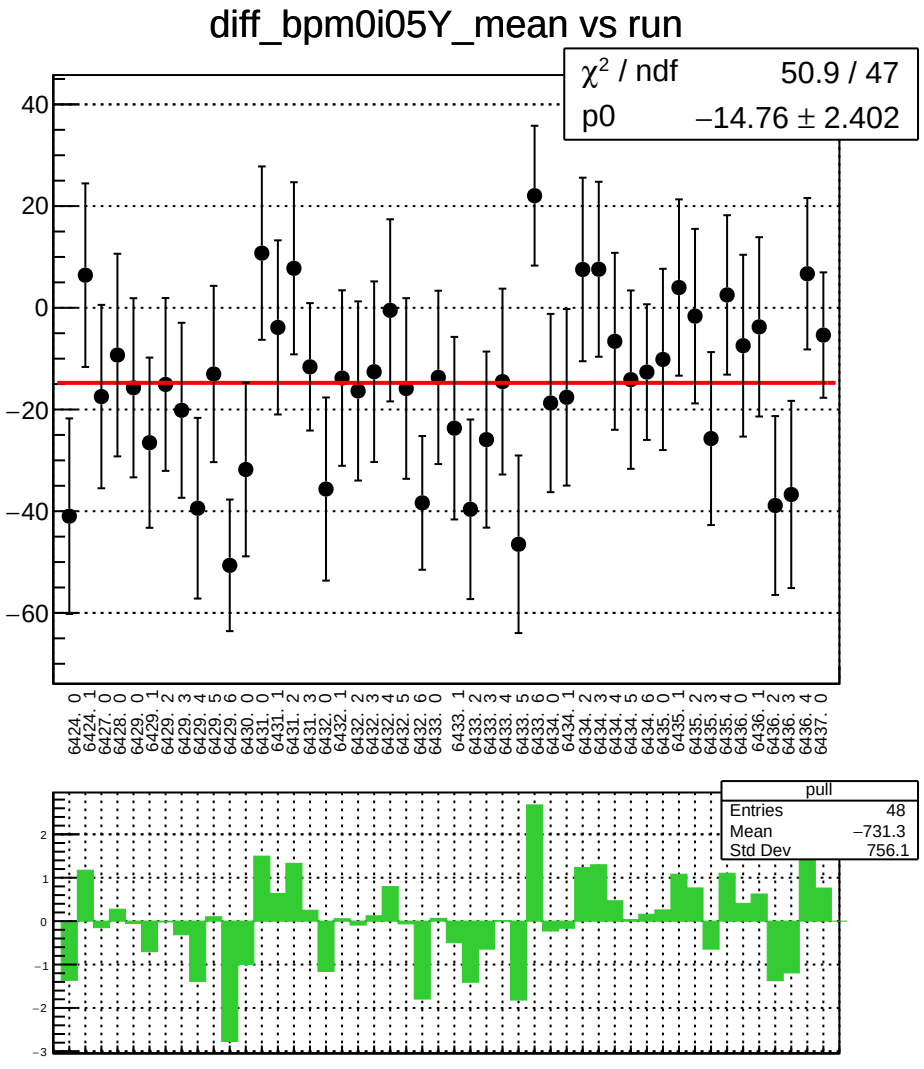

pull1D
Entries 48
Mean 0.006253
Std Dev 1.299

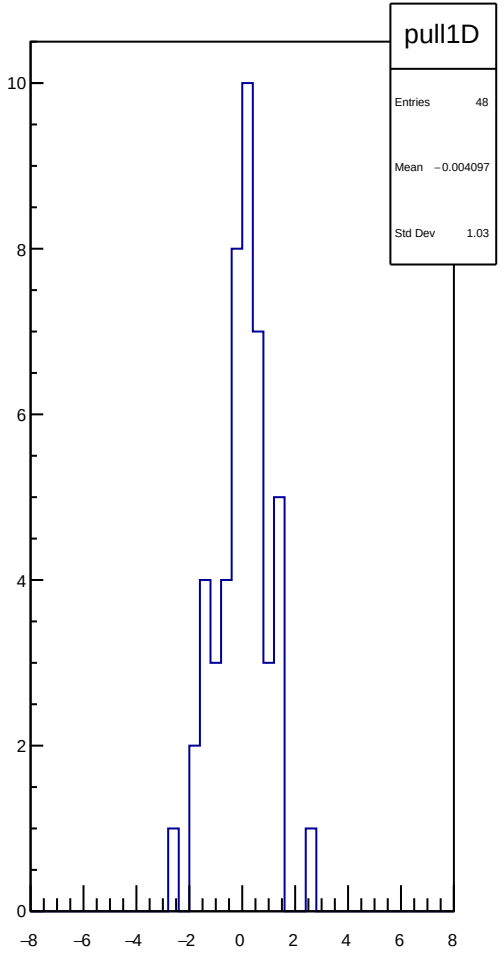

diff_bpm0i02aY_rms vs run
χ² / ndf 1150 / 47
p0 1448 ± 1.478
1500
1450
1400
1350
1300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

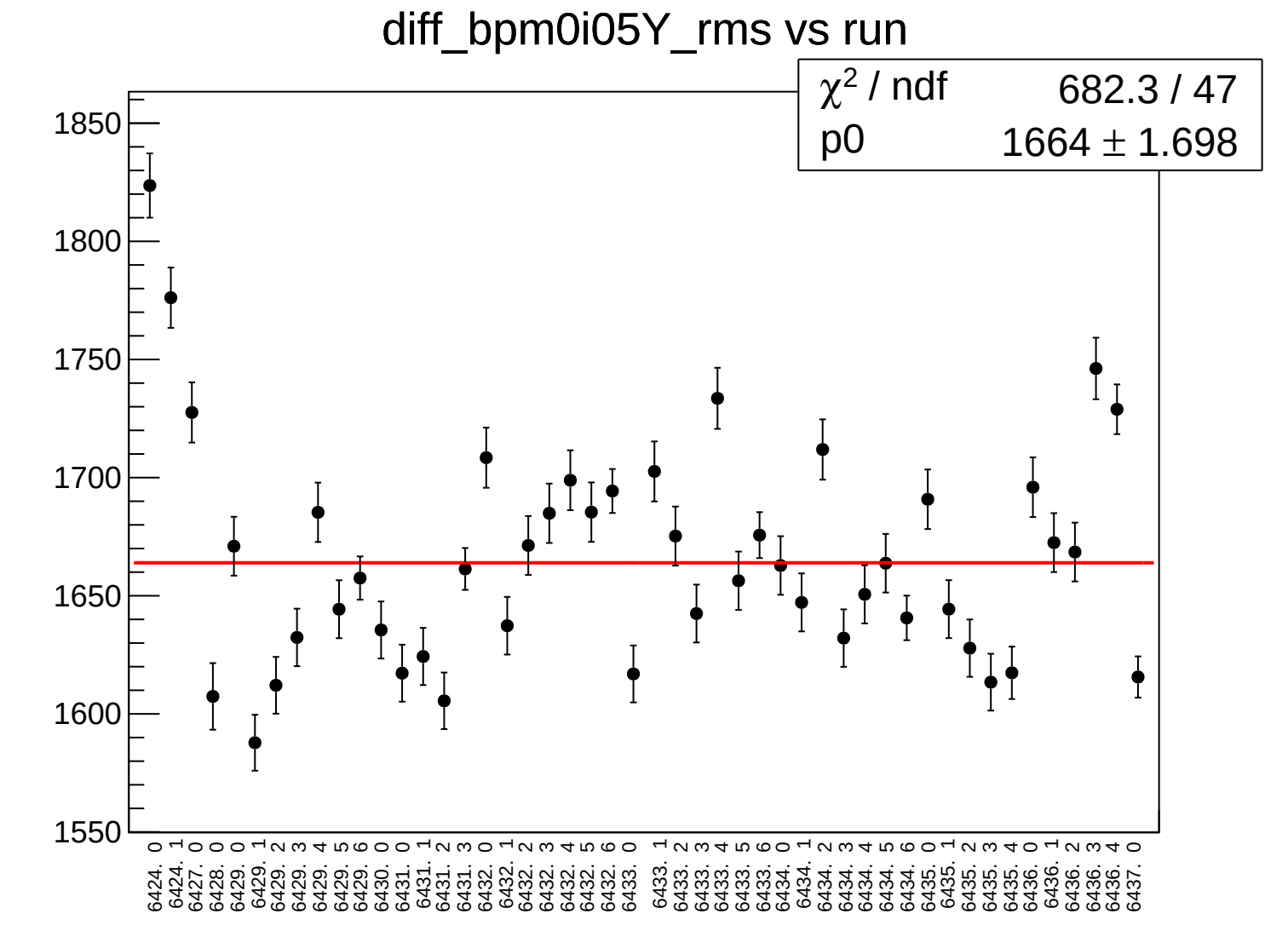

diff_bpm0i05X_mean vs run
χ² / ndf 79.4 / 47
p0 −36.16 ± 2.349
pull
Entries 48
Mean −280.8
Std Dev 300.3

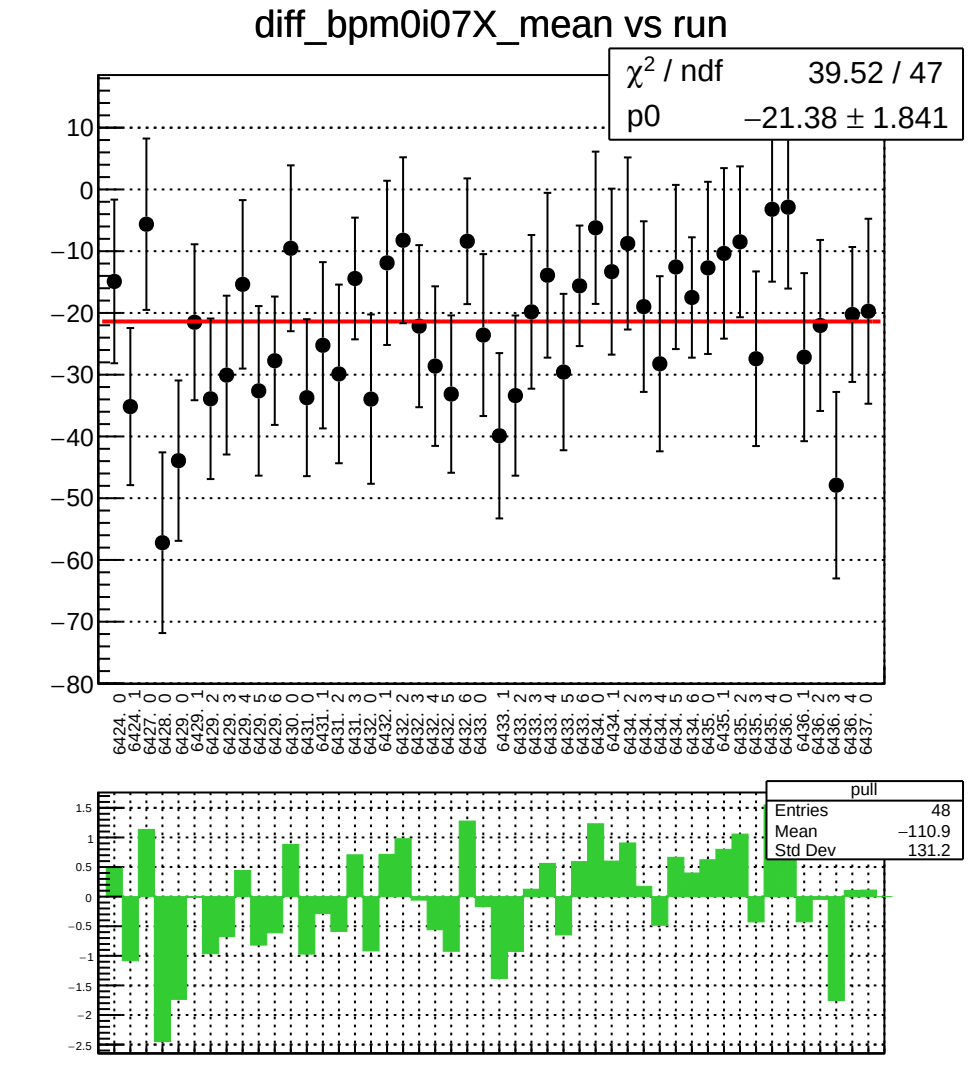

pull1D
Entries 48
Mean −0.02009
Std Dev 1.286

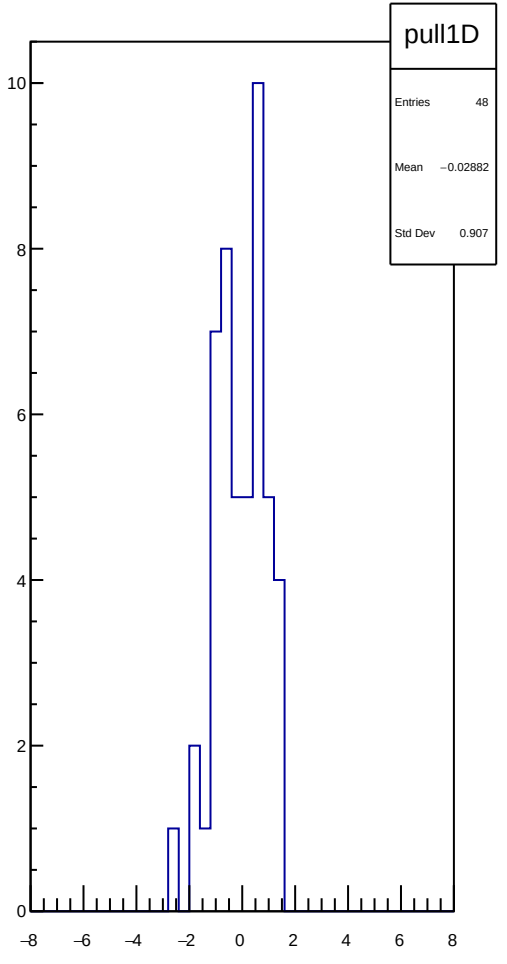

diff_bpm0i05X_rms vs run
χ² / ndf 595.6 / 47
p0 1628 ± 1.661
1750
1700
1650
1600
1550
1500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

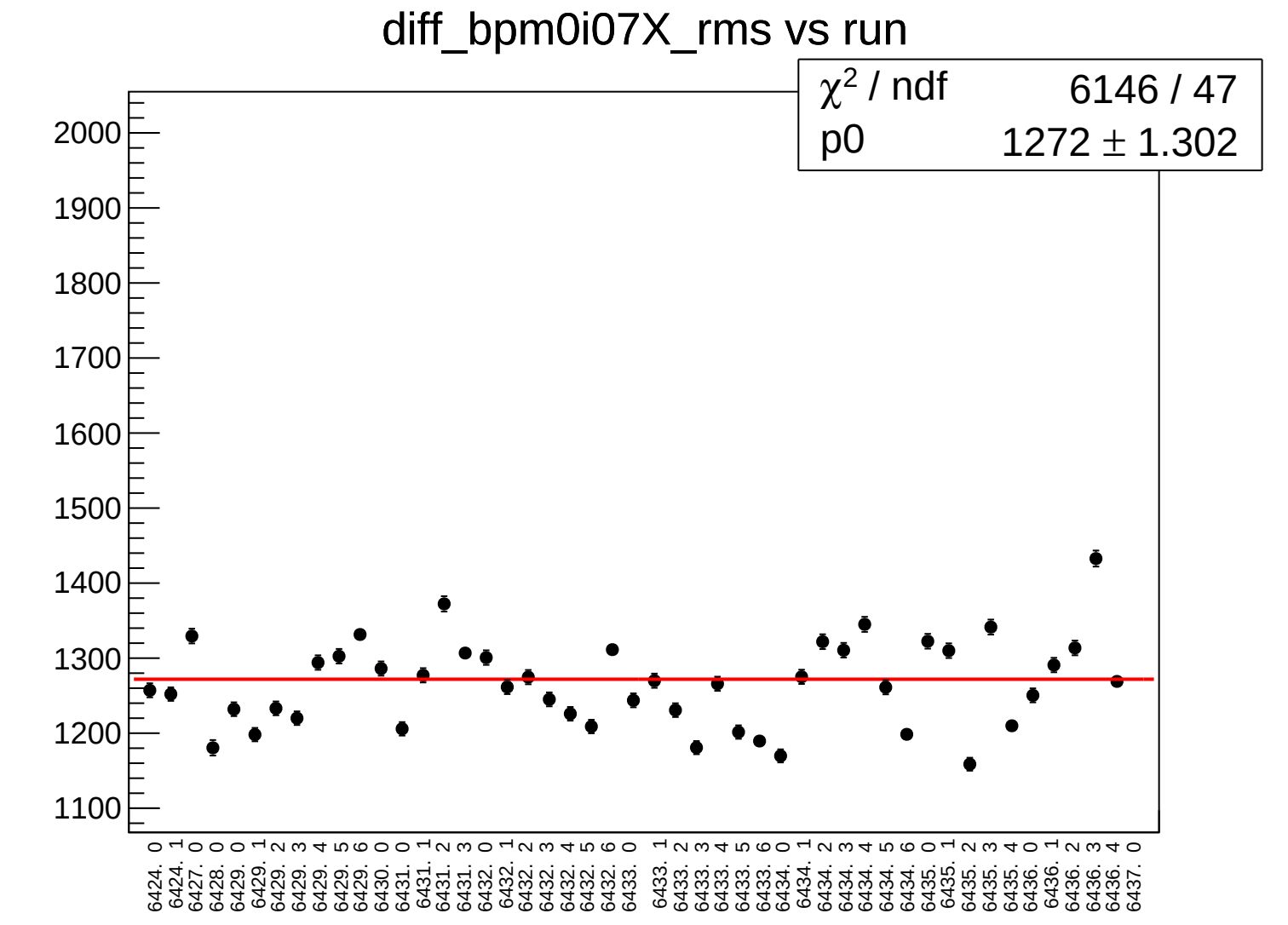

diff_bpm0i05Y_mean vs run
χ² / ndf 50.9 / 47
p0 −14.76 ± 2.402
pull
Entries 48
Mean −731.3
Std Dev 756.1

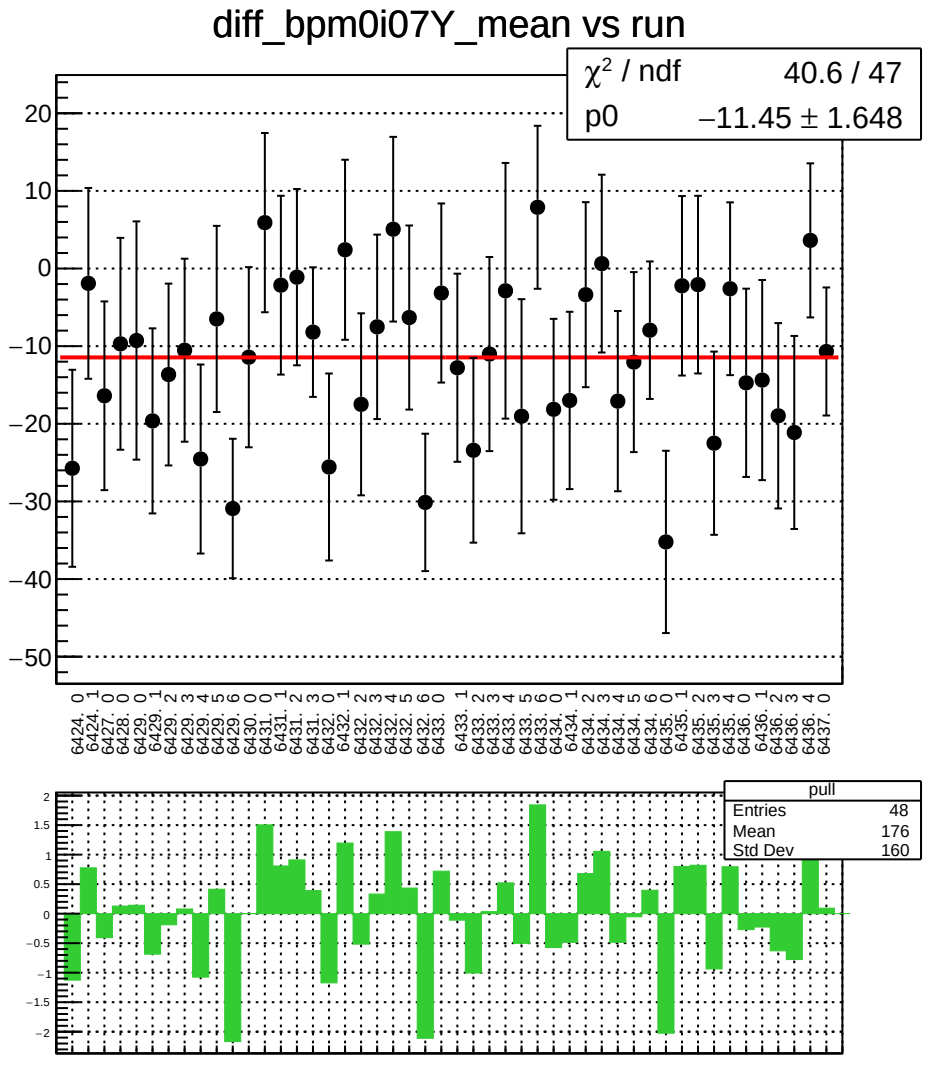

pull1D
Entries 48
Mean −0.004097
Std Dev 1.03

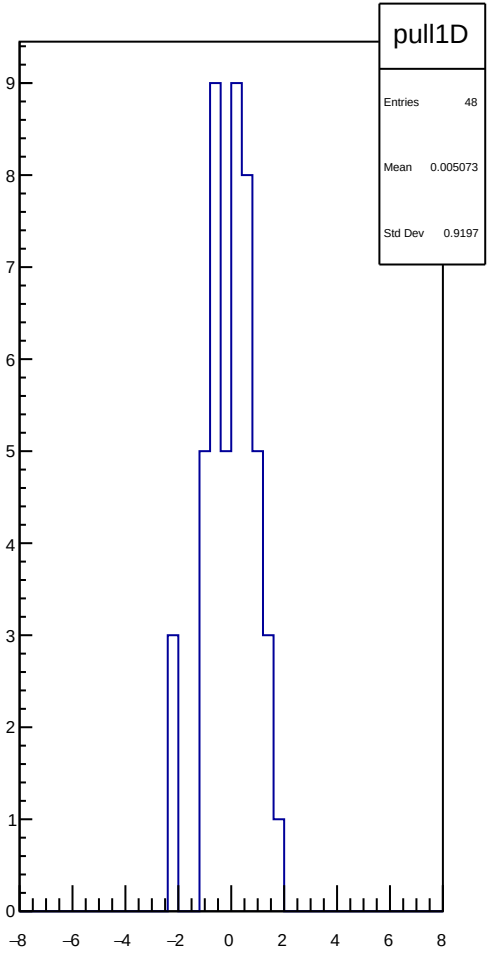

diff_bpm0i05Y_rms vs run
χ² / ndf 682.3 / 47
p0 1664 ± 1.698
1850
1800
1750
1700
1650
1600
1550
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

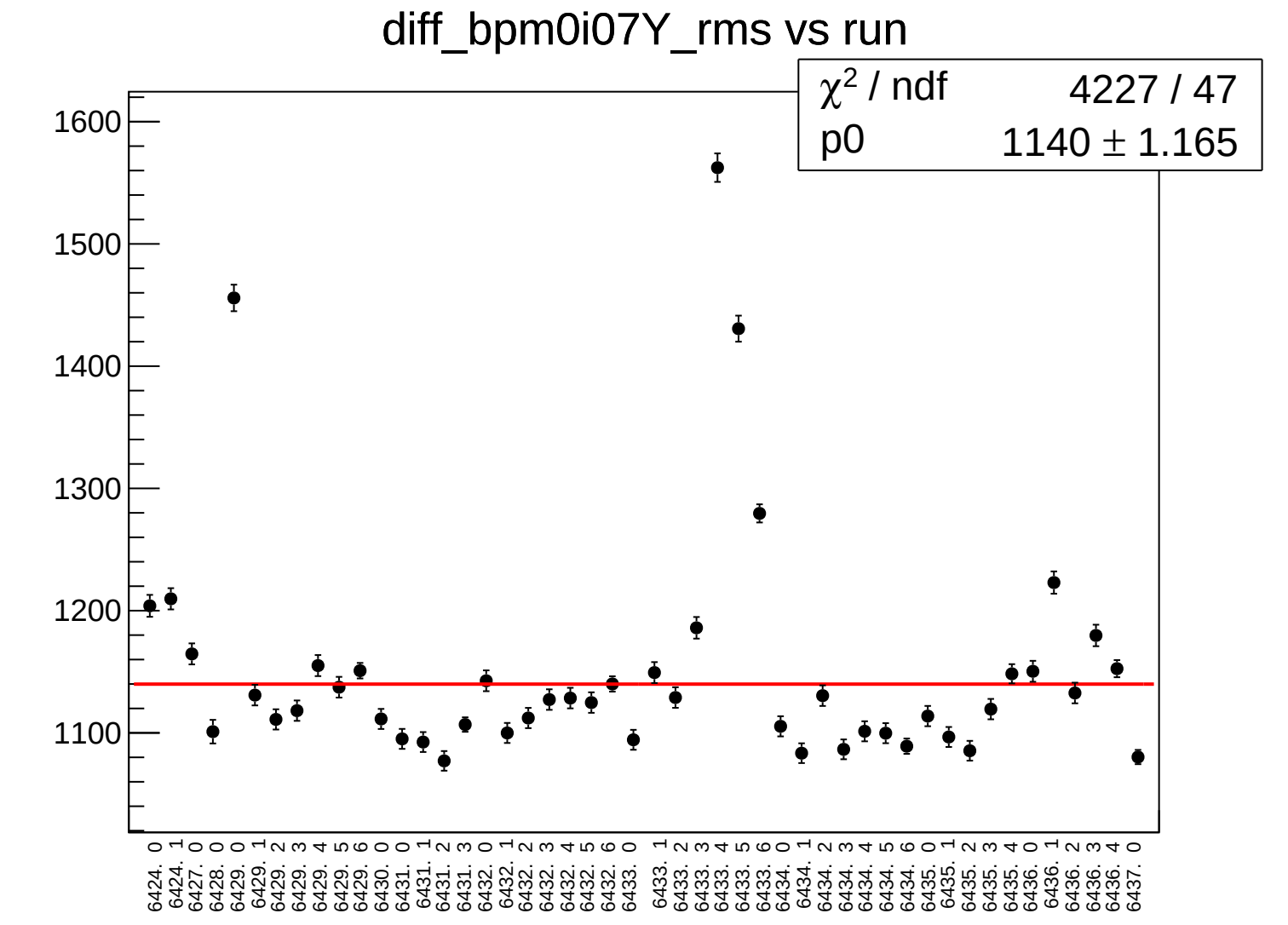

diff_bpm0i07X_mean vs run
χ² / ndf 39.52 / 47
p0 −21.38 ± 1.841
pull
Entries 48
Mean −110.9
Std Dev 131.2


pull1D
Entries 48
Mean −0.02882
Std Dev 0.907


diff_bpm0i07X_rms vs run
χ² / ndf 6146 / 47
p0 1272 ± 1.302
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


diff_bpm0i07Y_mean vs run
χ² / ndf 40.6 / 47
p0 −11.45 ± 1.648
20
10
0
−10
−20
−30
−40
−50
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 176
Std Dev 160
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 48
Mean 0.005073
Std Dev 0.9197
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i07Y_rms vs run
χ² / ndf 4227 / 47
p0 1140 ± 1.165
1600
1500
1400
1300
1200
1100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
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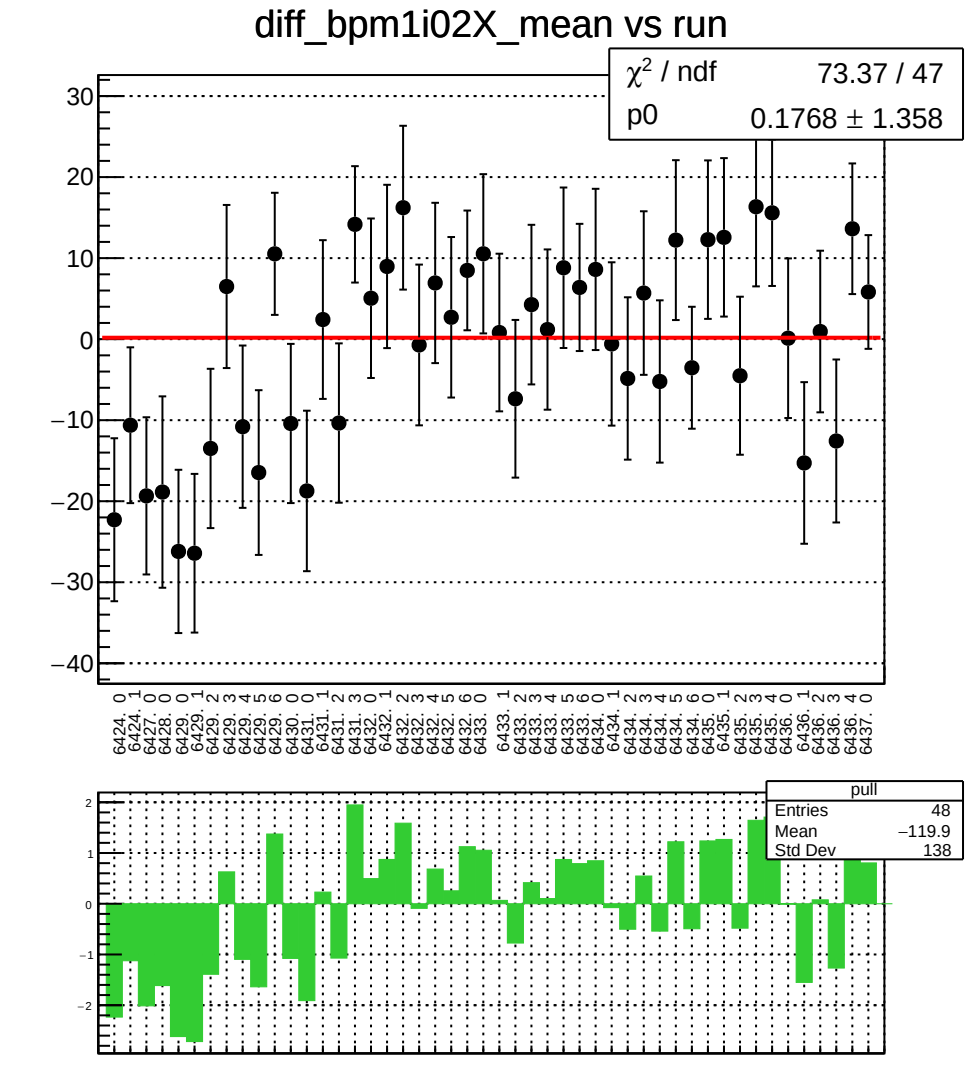
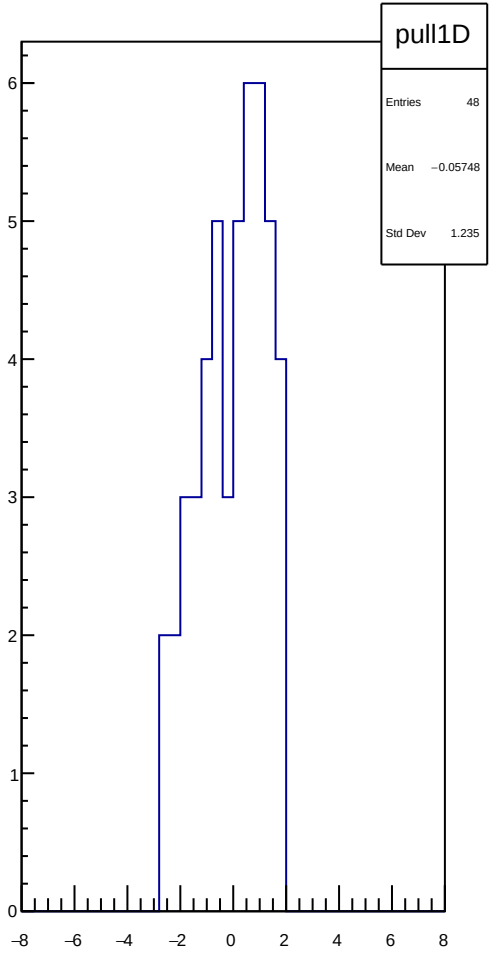
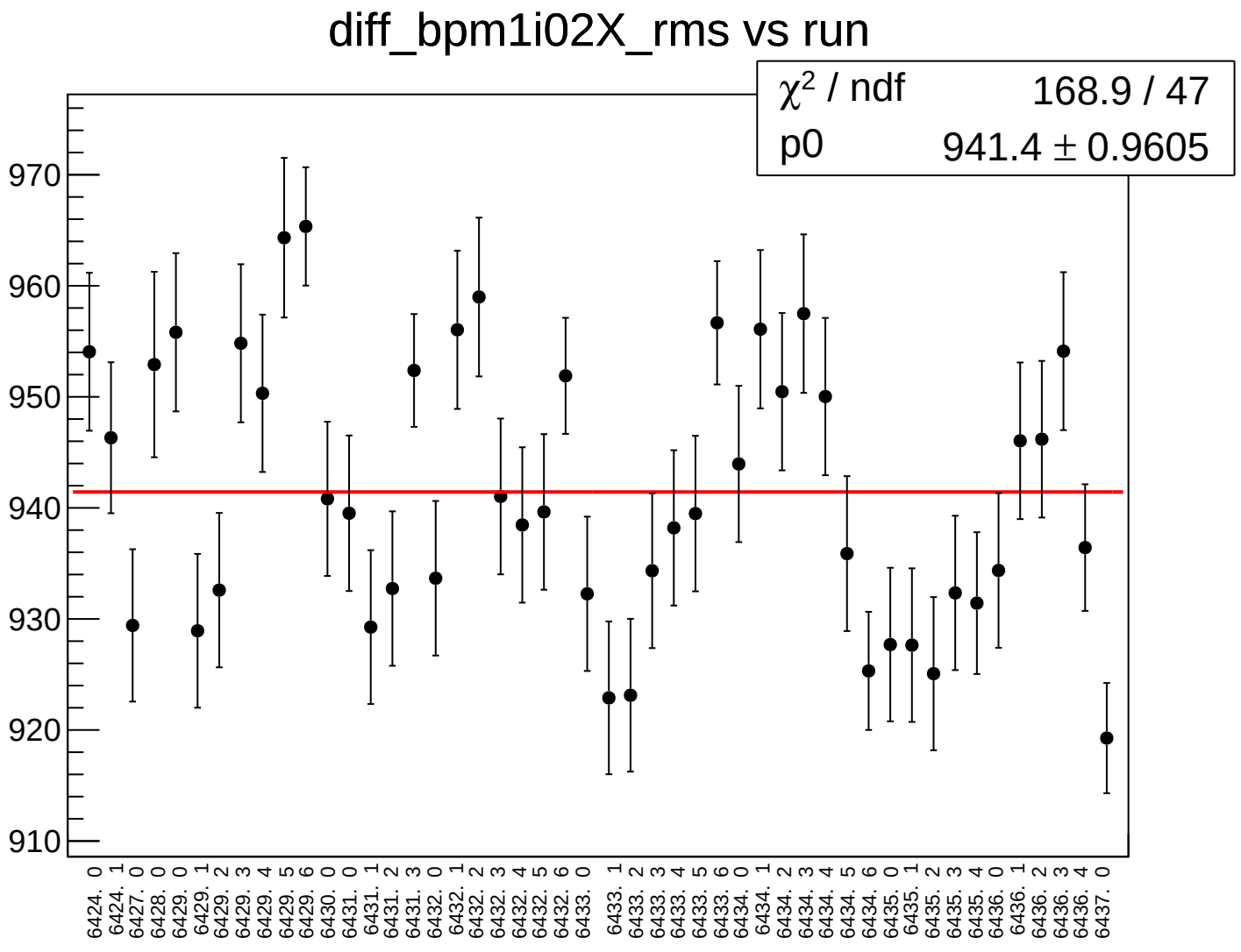
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


diff_bpm1i02X_mean vs run
χ² / ndf 73.37 / 47
p0 0.1768 ± 1.358
pull
Entries 48
Mean −119.9
Std Dev 138


pull1D
Entries 48
Mean −0.05748
Std Dev 1.235


diff_bpm1i02X_rms vs run
χ² / ndf 168.9 / 47
p0 941.4 ± 0.9605
970
960
950
940
930
920
910
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
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6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
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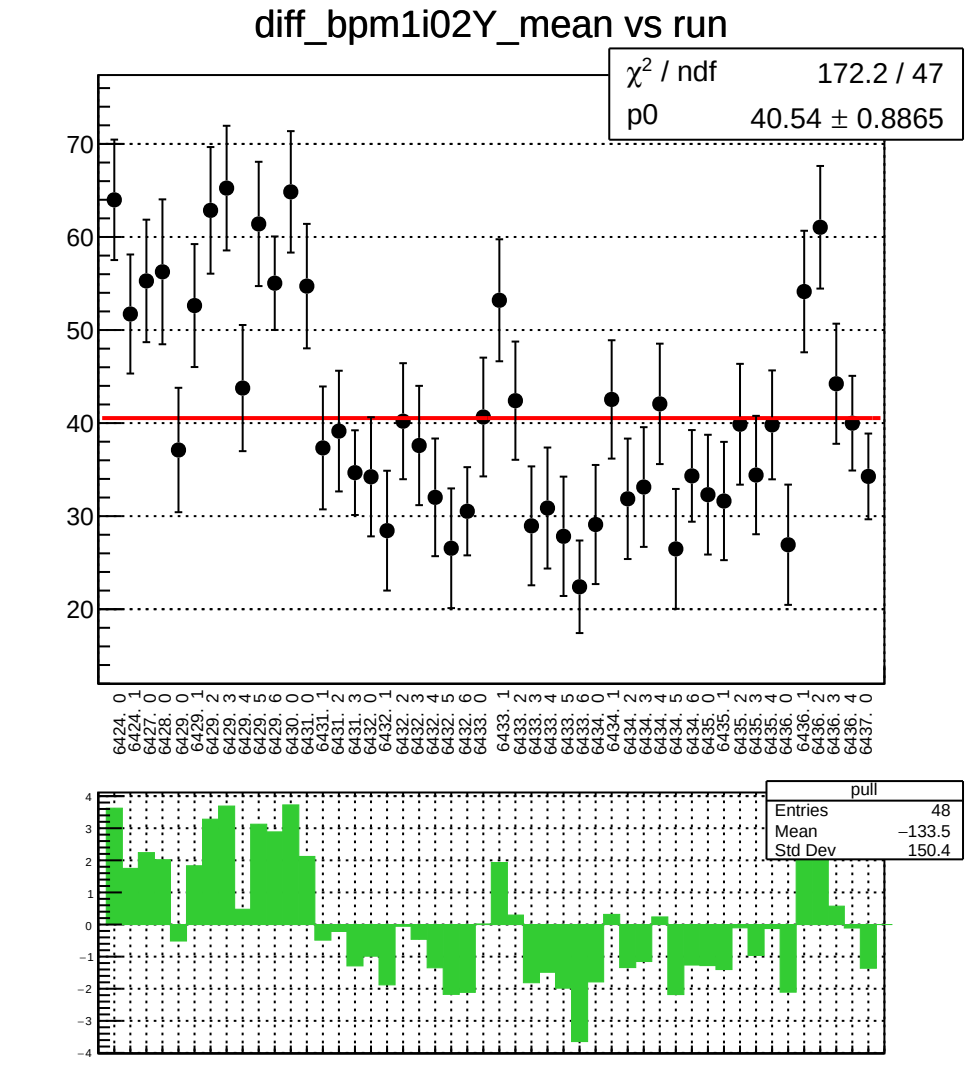
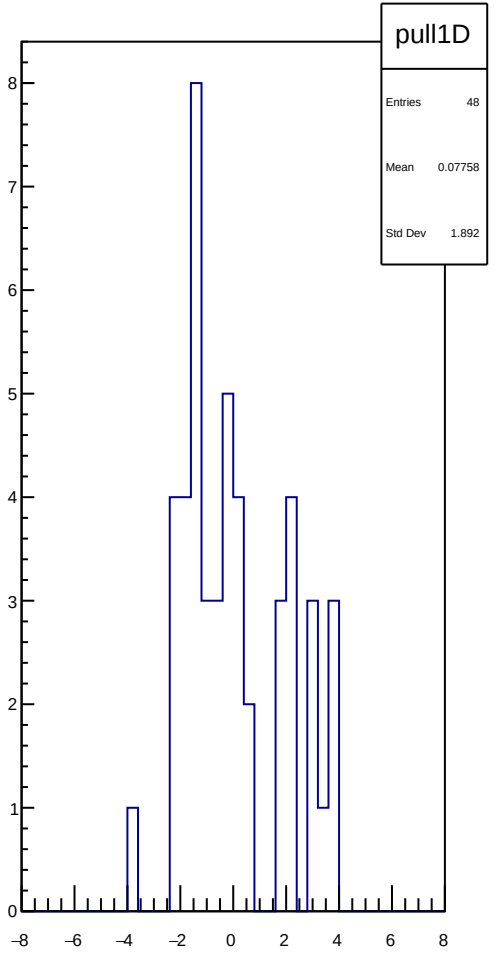
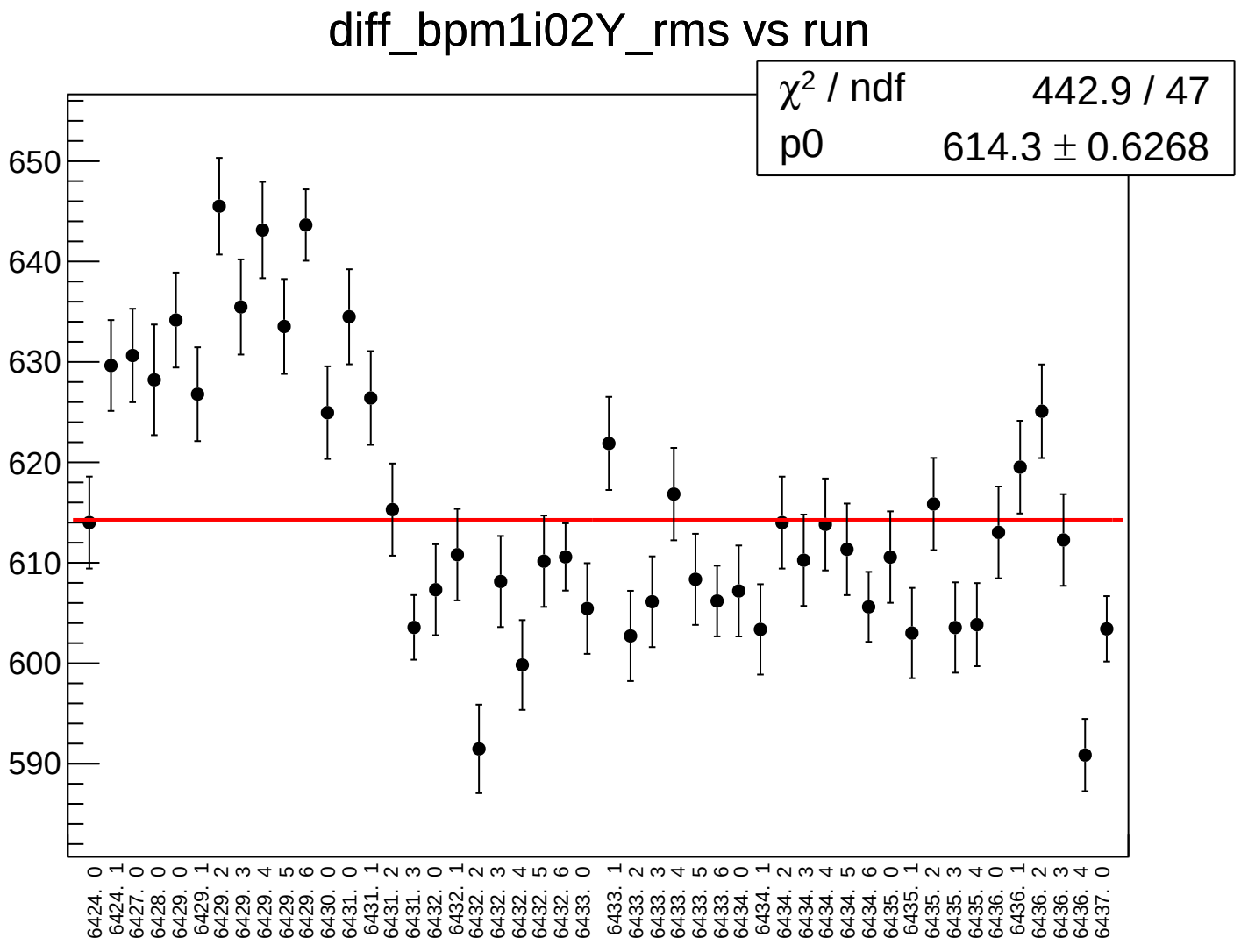
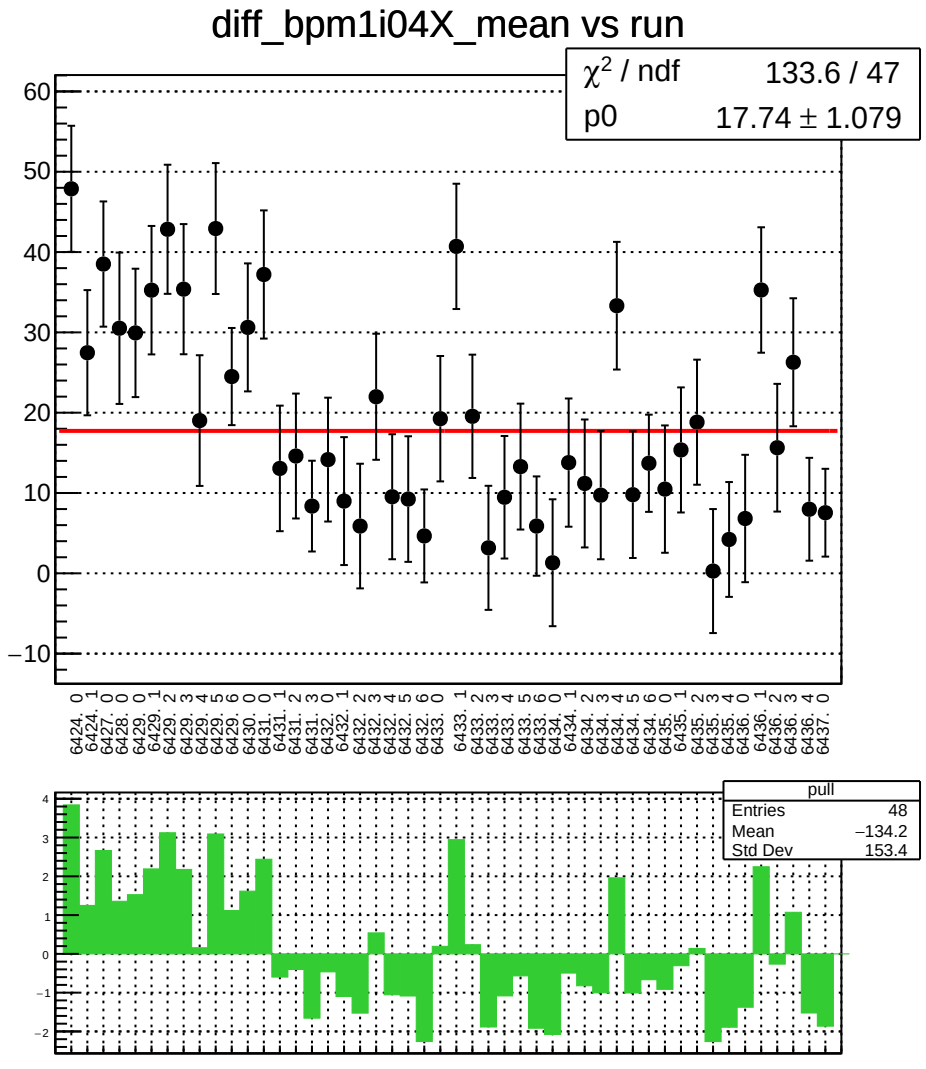
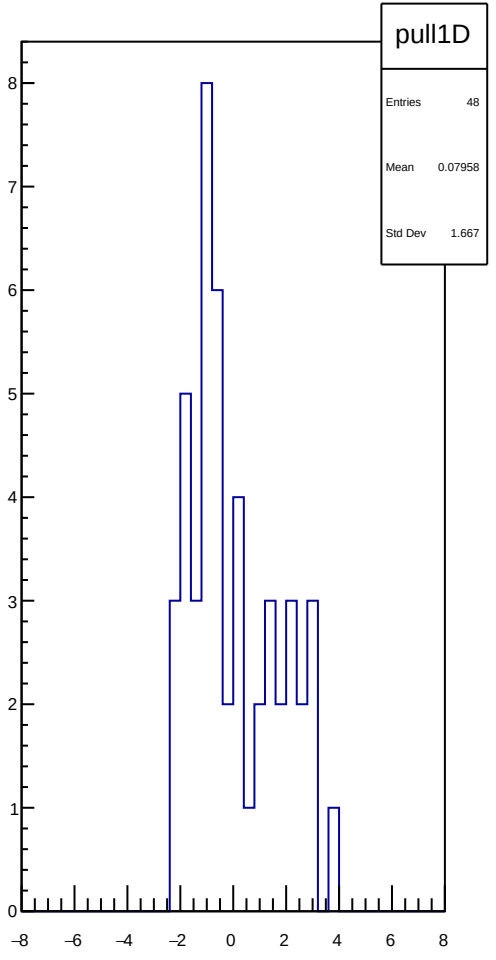
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

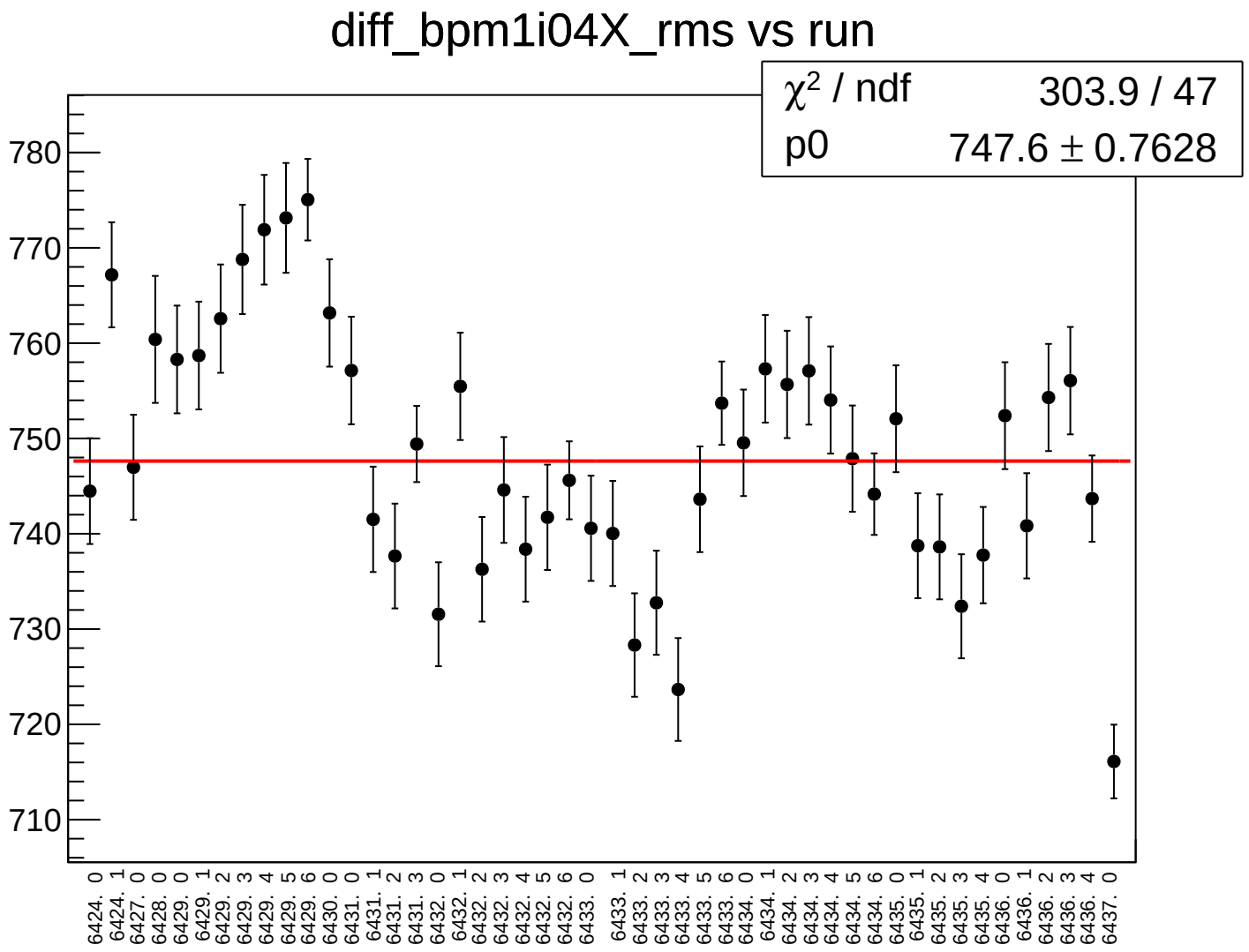

diff_bpm1i02Y_mean vs run
χ² / ndf 172.2 / 47
p0 40.54 ± 0.8865
pull
Entries 48
Mean −133.5
Std Dev 150.4

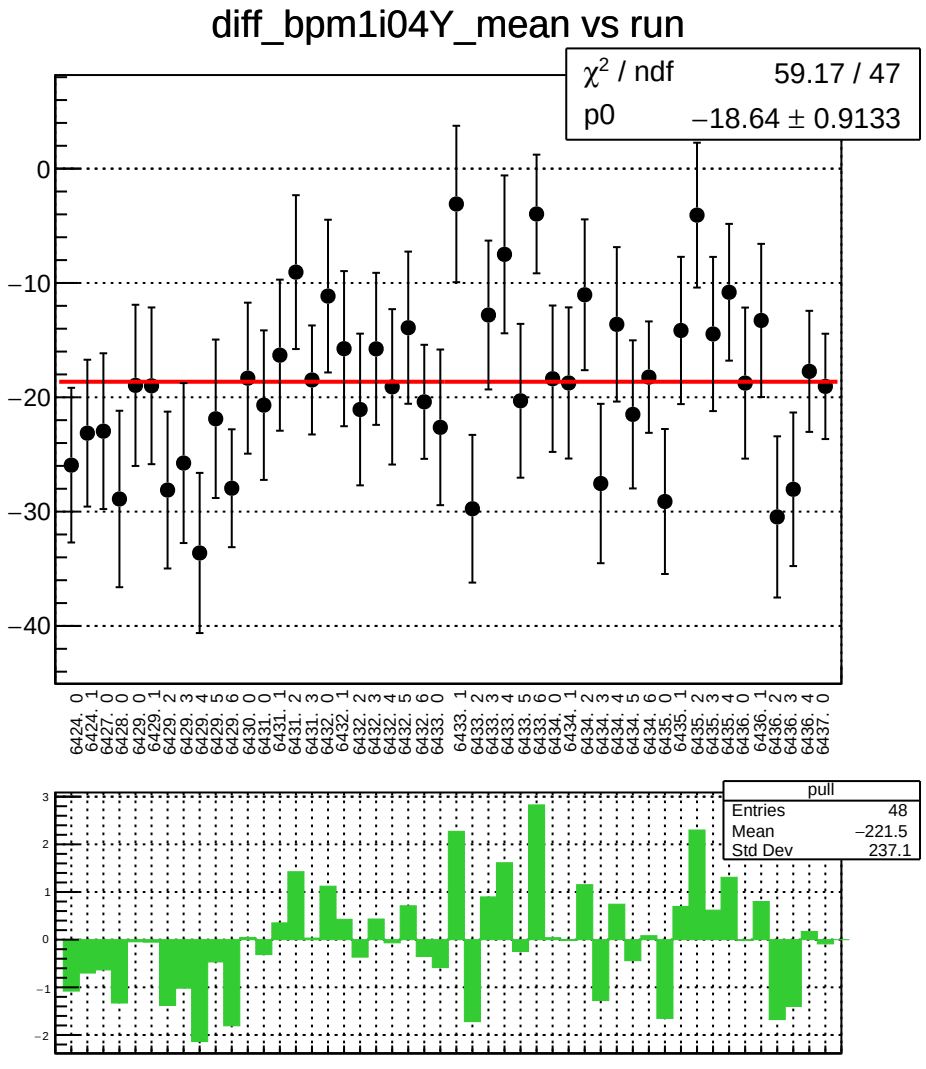

pull1D
Entries 48
Mean 0.07758
Std Dev 1.892

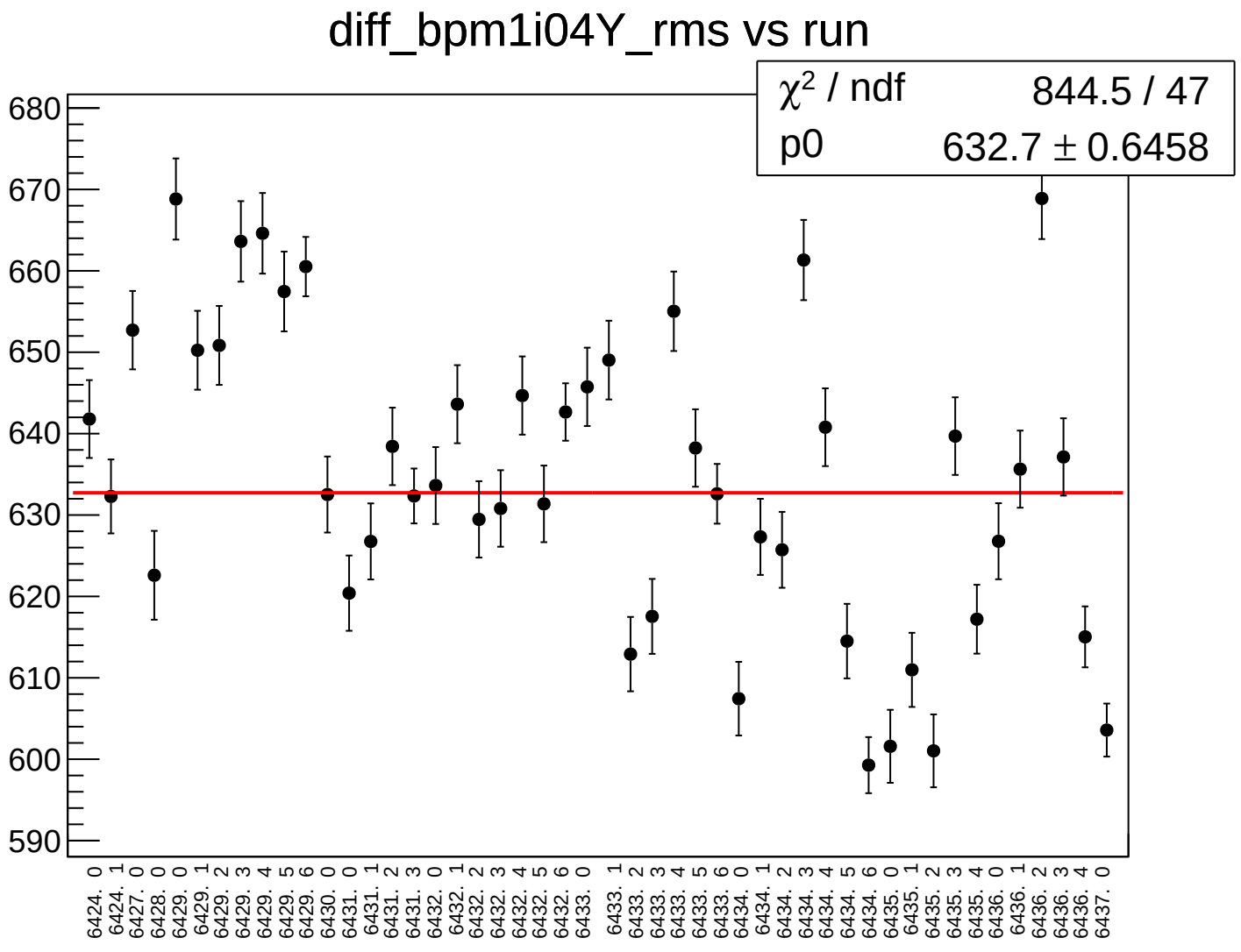

diff_bpm1i02Y_rms vs run
χ² / ndf 442.9 / 47
p0 614.3 ± 0.6268
650
640
630
620
610
600
590
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

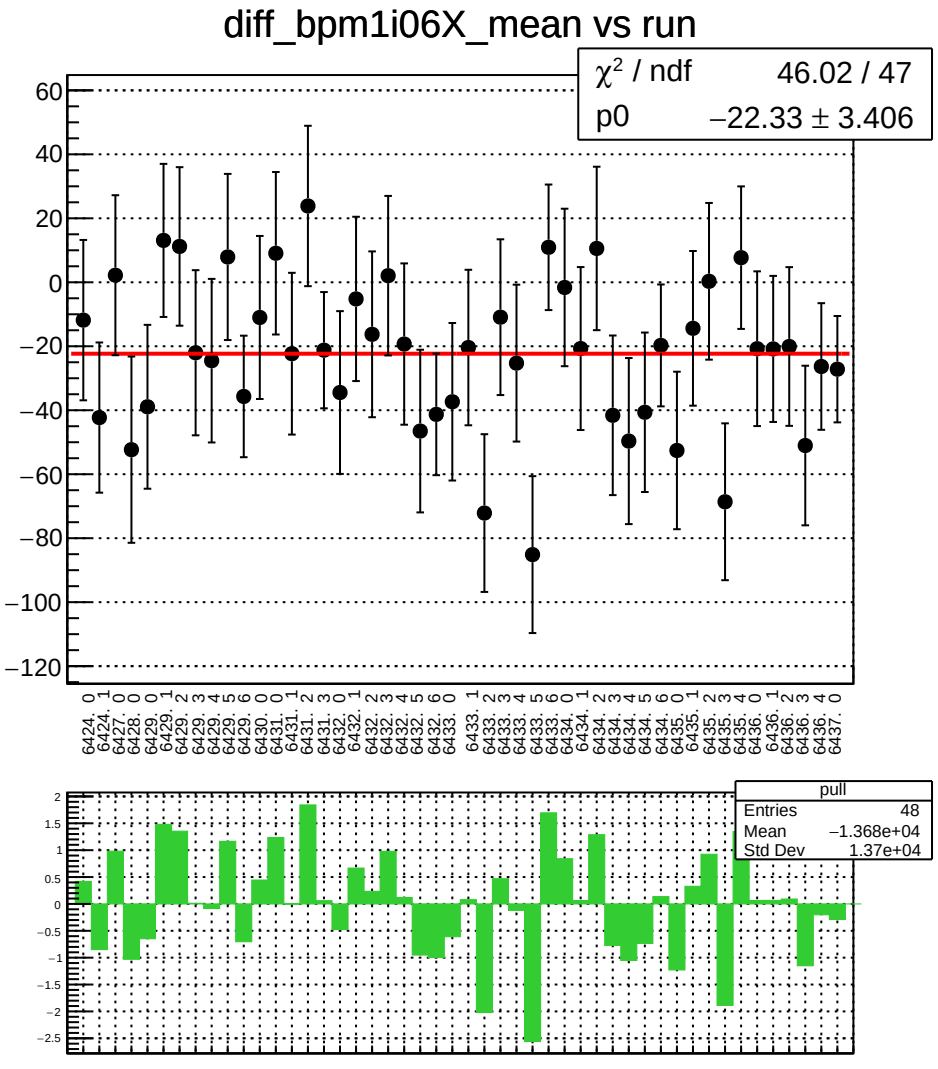

diff_bpm1i04X_mean vs run
χ² / ndf 133.6 / 47
p0 17.74 ± 1.079
pull
Entries 48
Mean −134.2
Std Dev 153.4

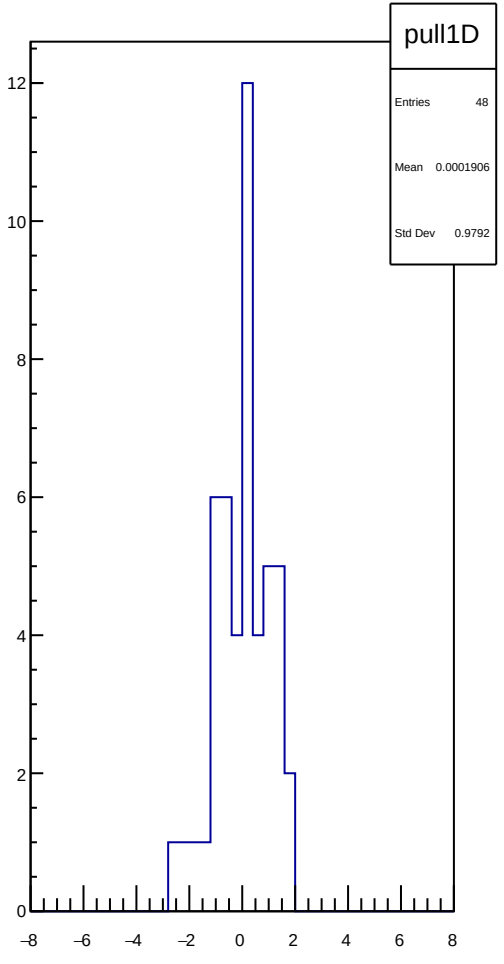

pull1D
Entries 48
Mean 0.07958
Std Dev 1.667

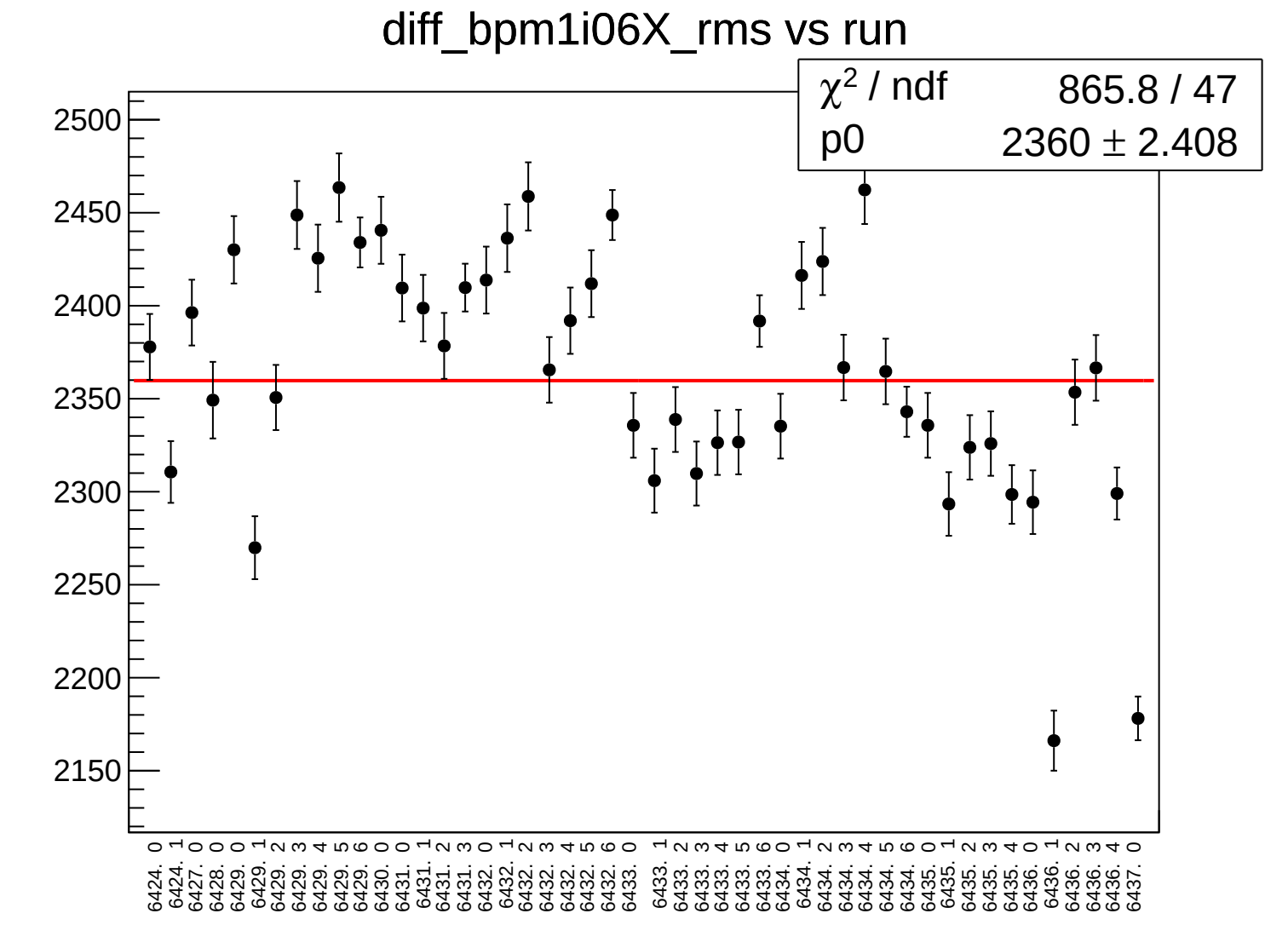

diff_bpm1i04X_rms vs run
χ² / ndf 303.9 / 47
p0 747.6 ± 0.7628
780
770
760
750
740
730
720
710
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

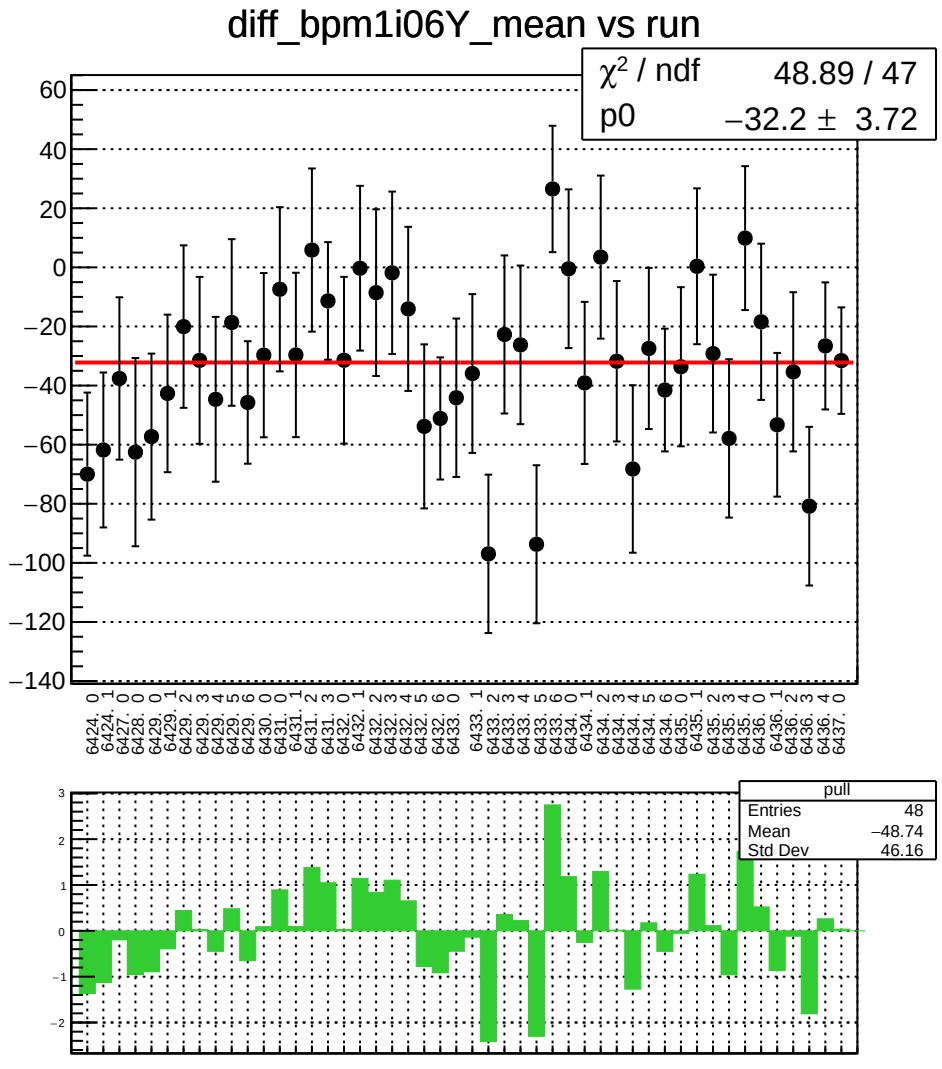

diff_bpm1i04Y_mean vs run
χ² / ndf 59.17 / 47
p0 −18.64 ± 0.9133
0
−10
−20
−30
−40
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −221.5
Std Dev 237.1
3
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.01649
Std Dev 1.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

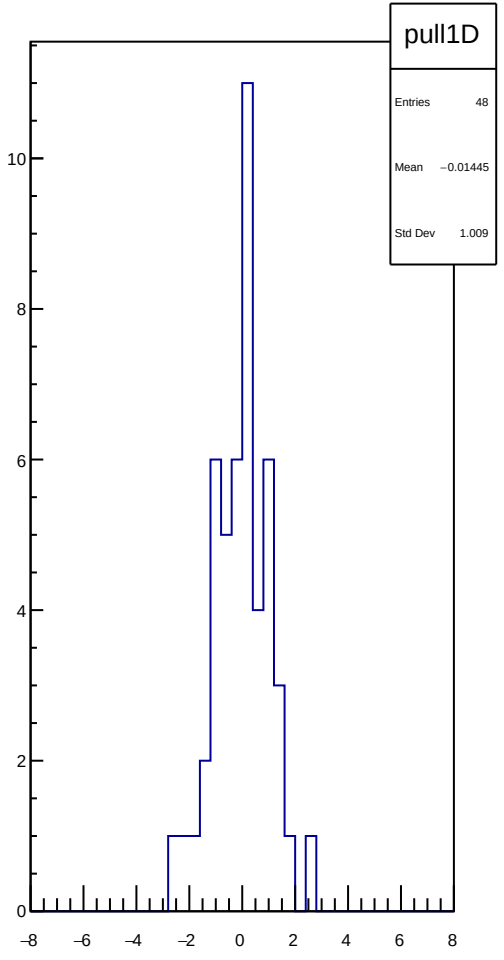

diff_bpm1i04Y_rms vs run
χ² / ndf 844.5 / 47
p0 632.7 ± 0.6458
680
670
660
650
640
630
620
610
600
590
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

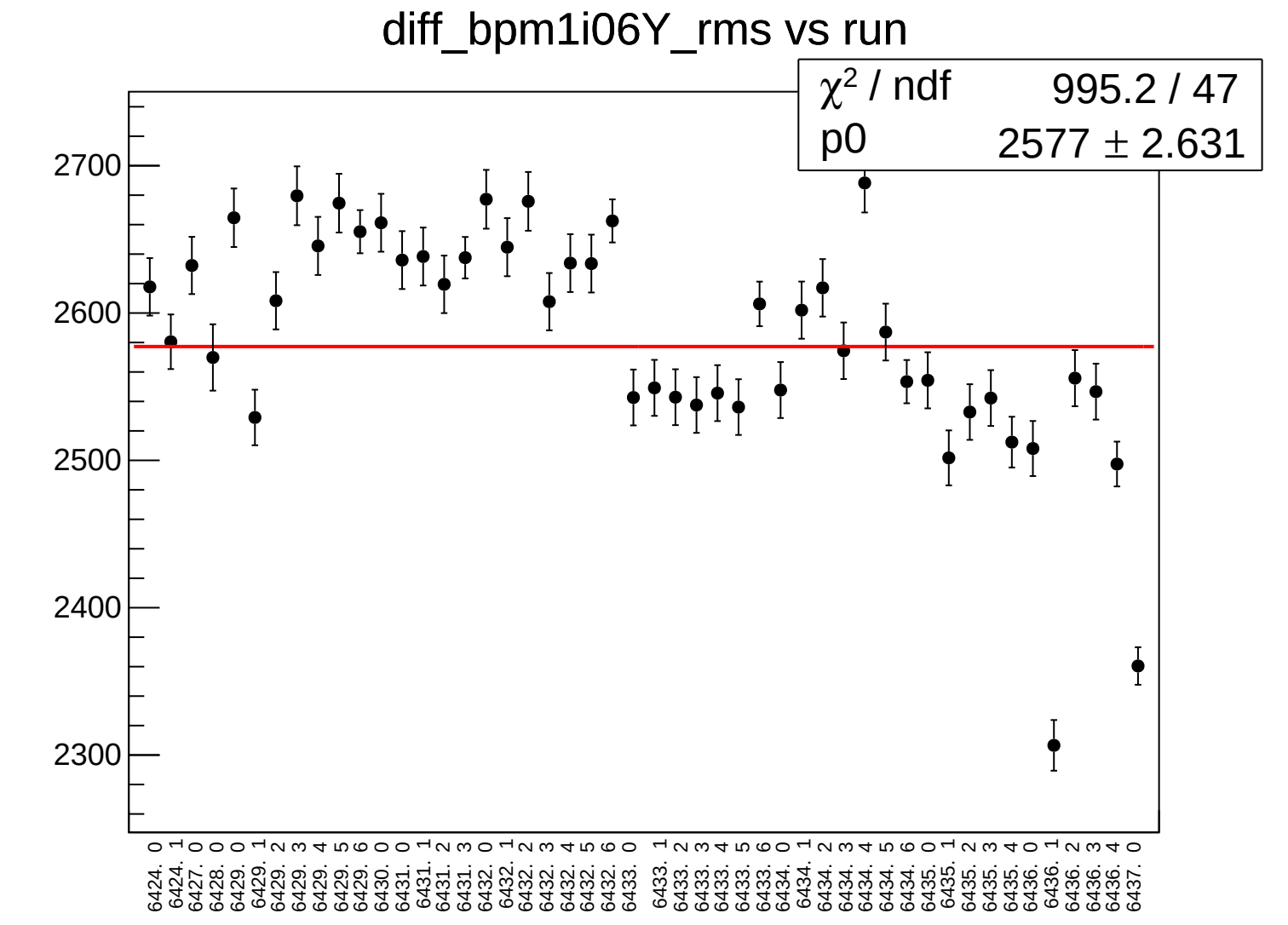

diff_bpm1i06X_mean vs run
χ² / ndf 46.02 / 47
p0 −22.33 ± 3.406
pull
Entries 48
Mean −1.368e+04
Std Dev 1.37e+04

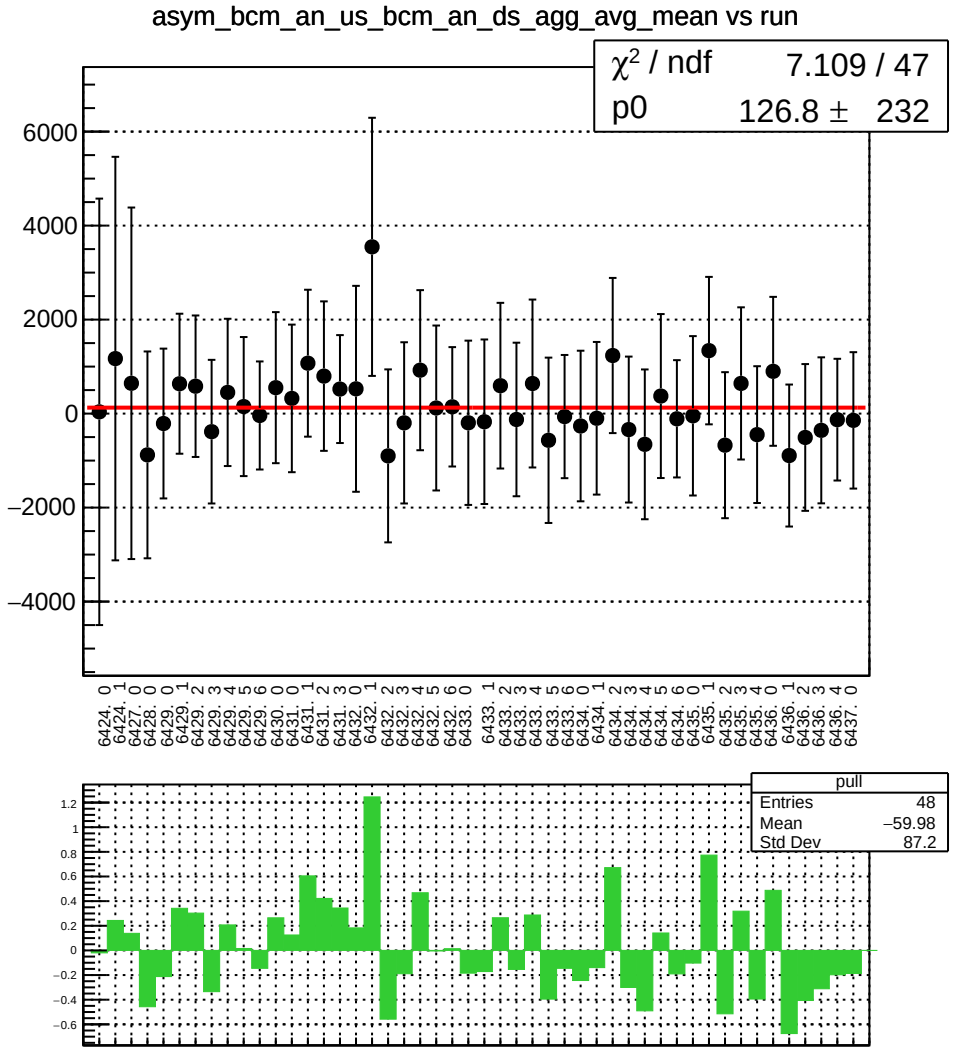

pull1D
Entries 48
Mean 0.0001906
Std Dev 0.9792

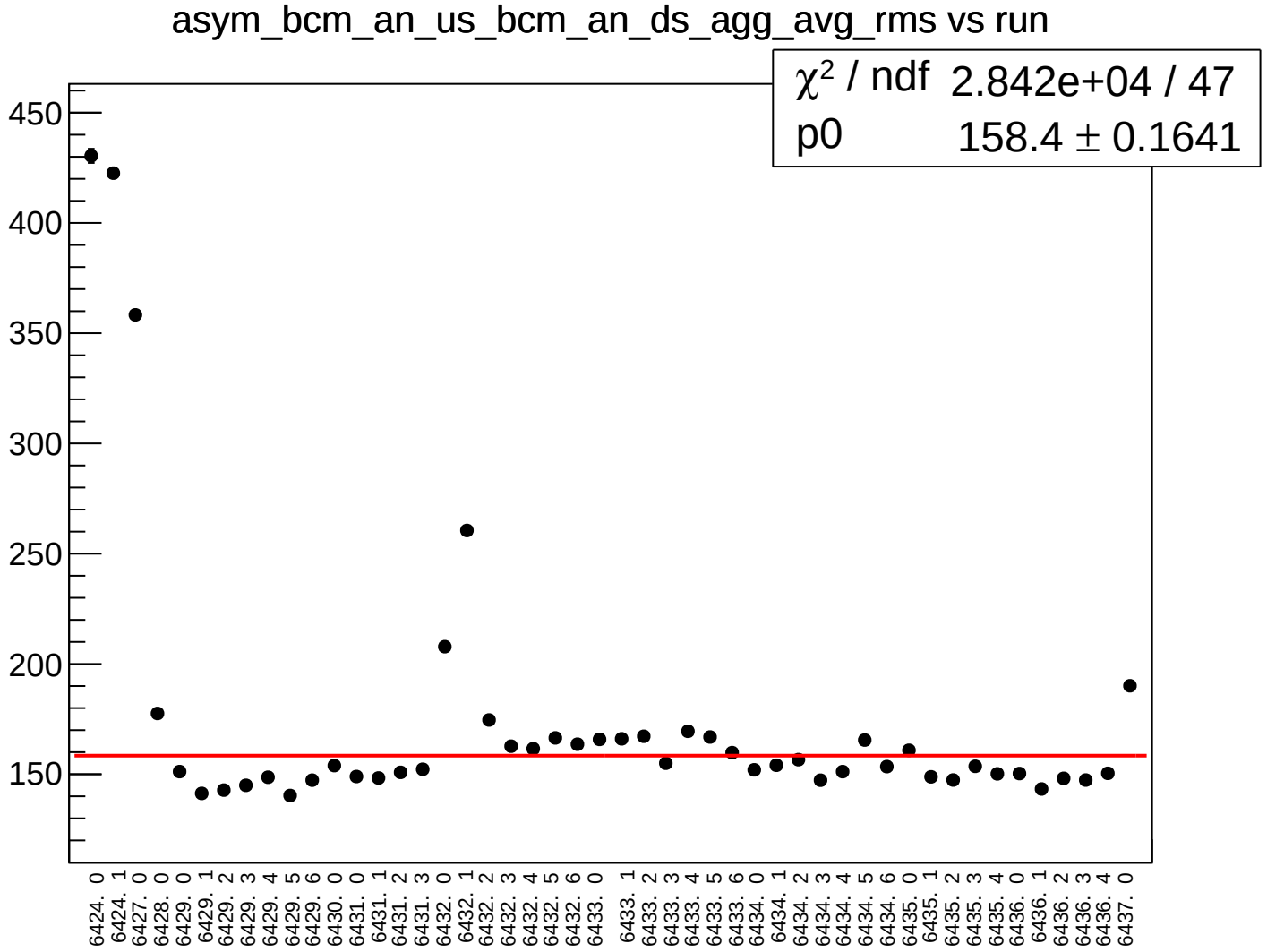

diff_bpm1i06X_rms vs run
χ² / ndf 865.8 / 47
p0 2360 ± 2.408
2500
2450
2400
2350
2300
2250
2200
2150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

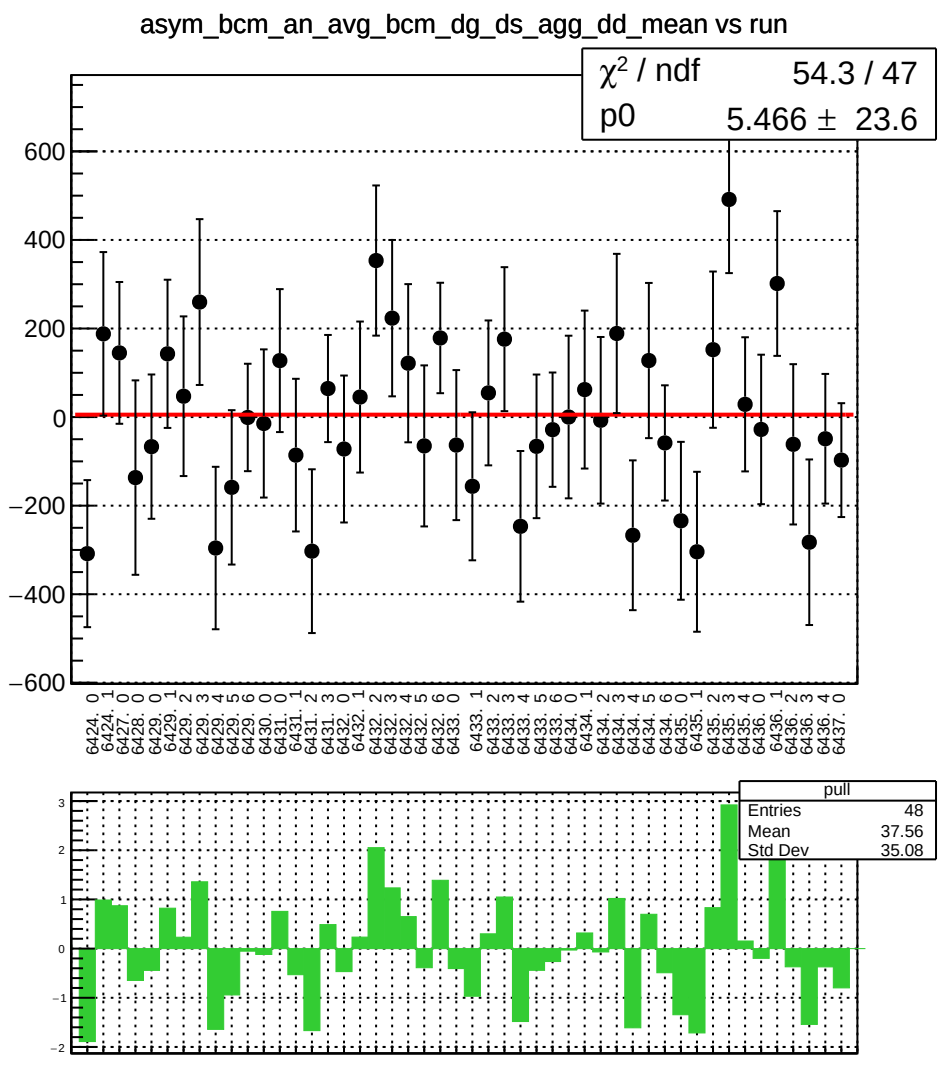

diff_bpm1i06Y_mean vs run
χ² / ndf 48.89 / 47
p0 −32.2 ± 3.72
pull
Entries 48
Mean −48.74
Std Dev 46.16

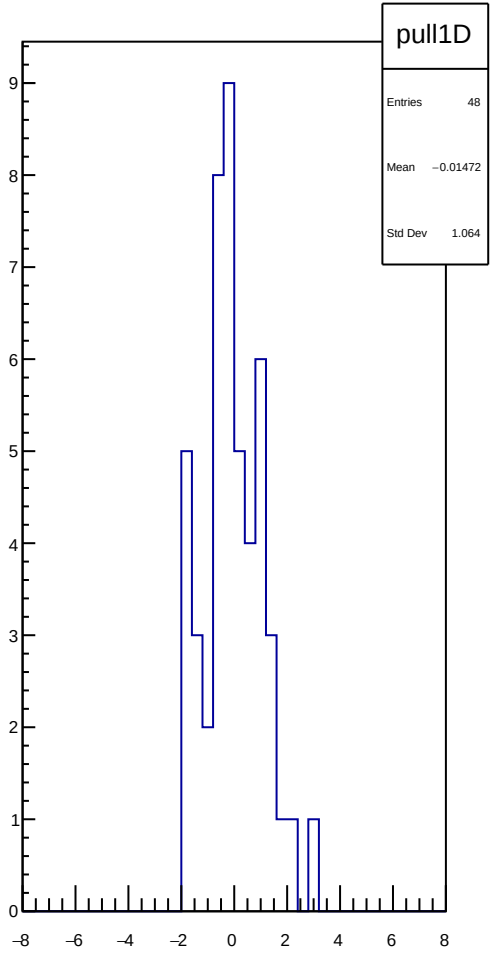

pull1D
Entries 48
Mean −0.01445
Std Dev 1.009

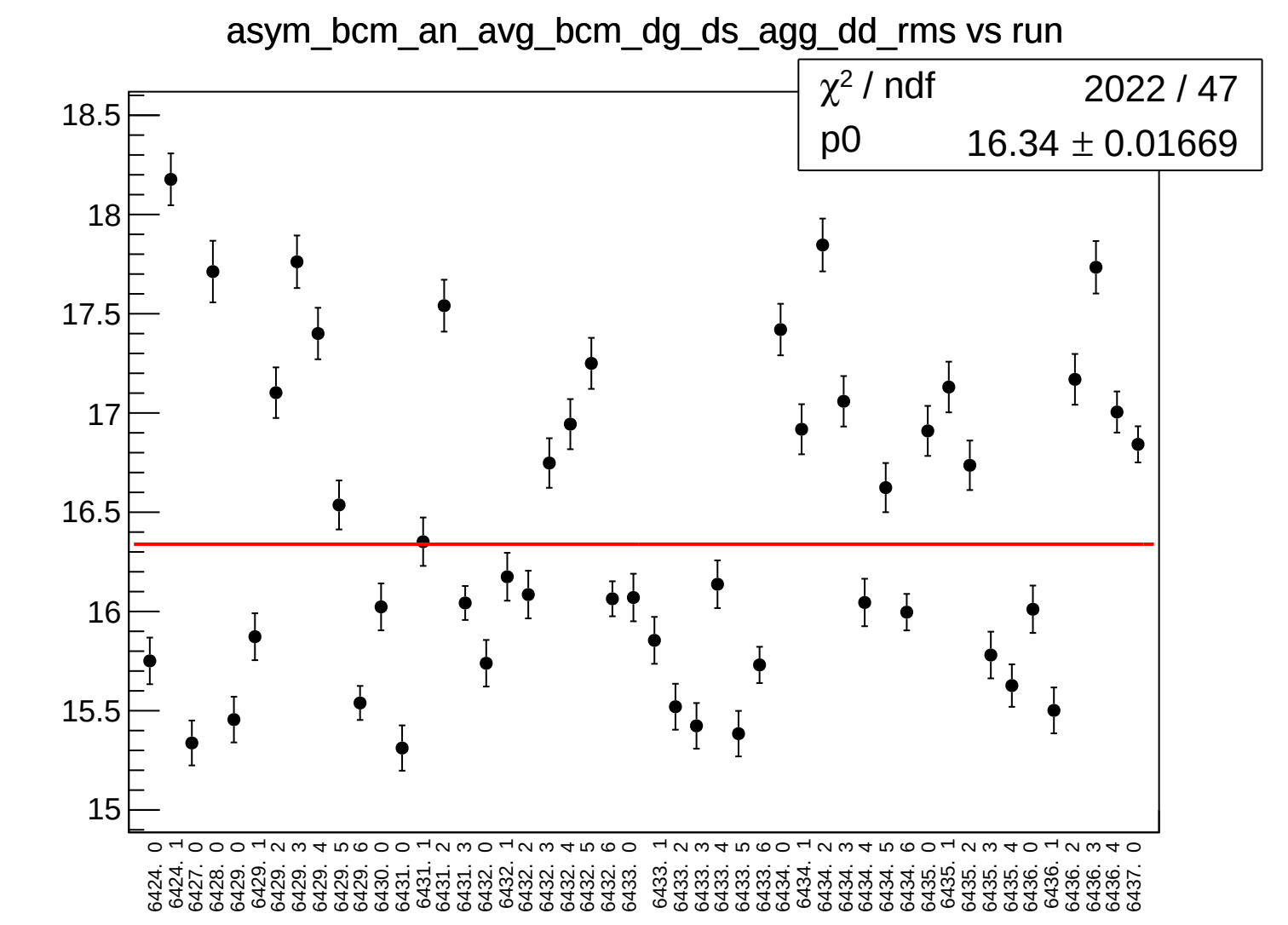

diff_bpm1i06Y_rms vs run
χ² / ndf 995.2 / 47
p0 2577 ± 2.631
2700
2600
2500
2400
2300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

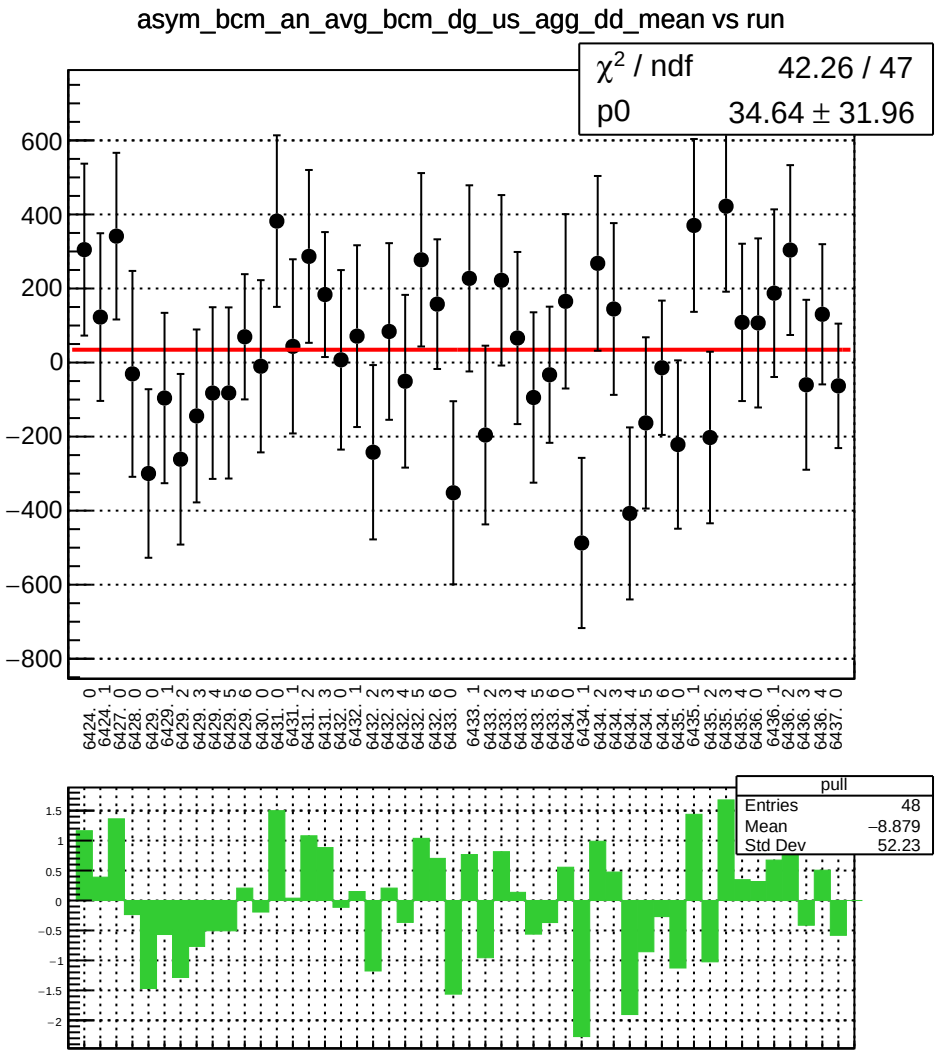

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.109 / 47
p0 126.8 ± 232
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −59.98
Std Dev 87.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 48
Mean 0.01545
Std Dev 0.3845
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

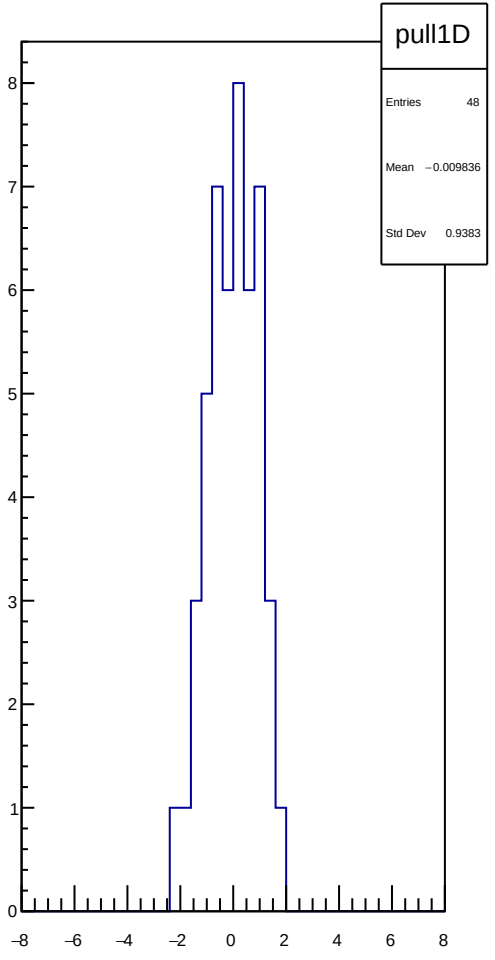

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.842e+04 / 47
p0 158.4 ± 0.1641
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

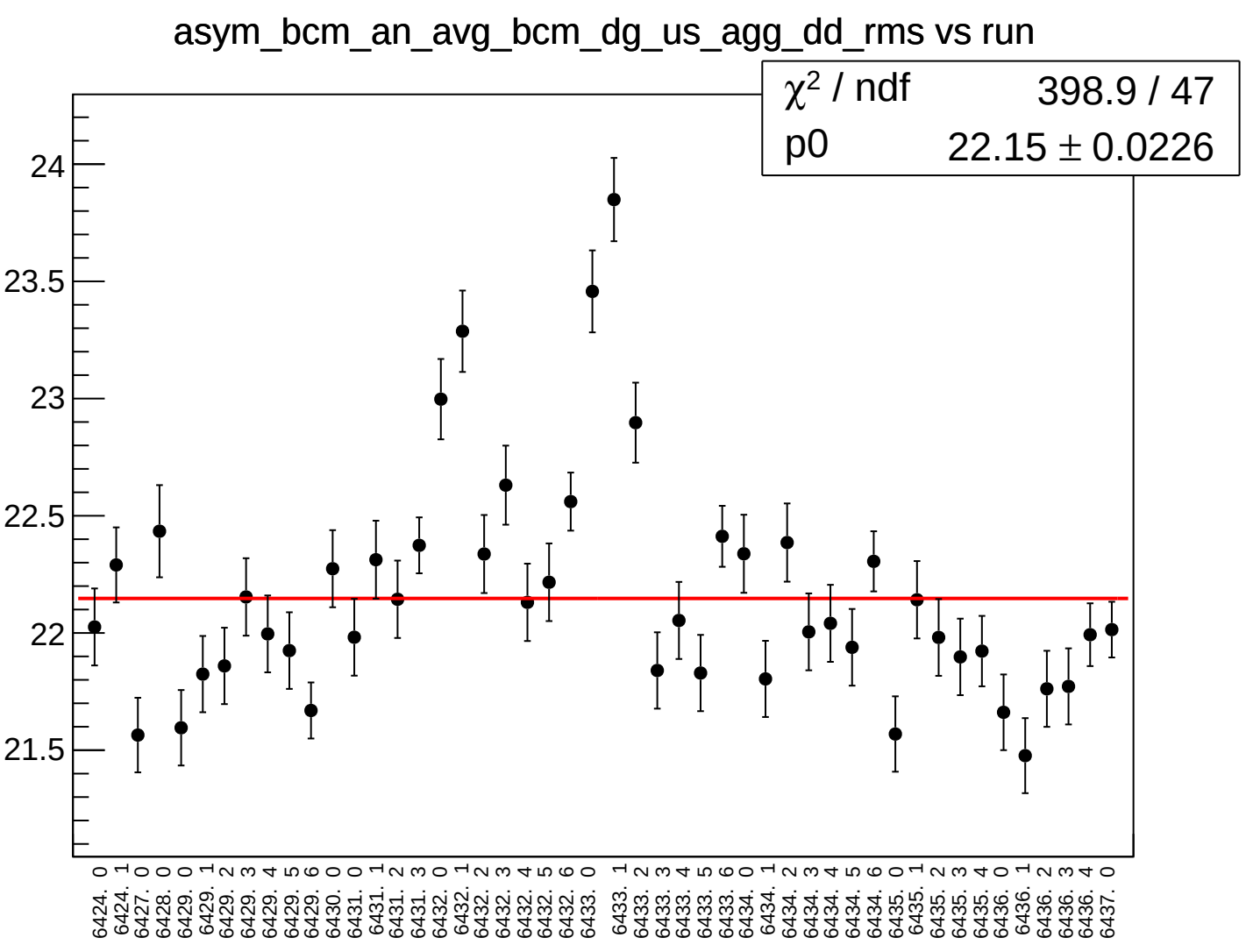

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.3 / 47
p0 5.466 ± 23.6
pull
Entries 48
Mean 37.56
Std Dev 35.08

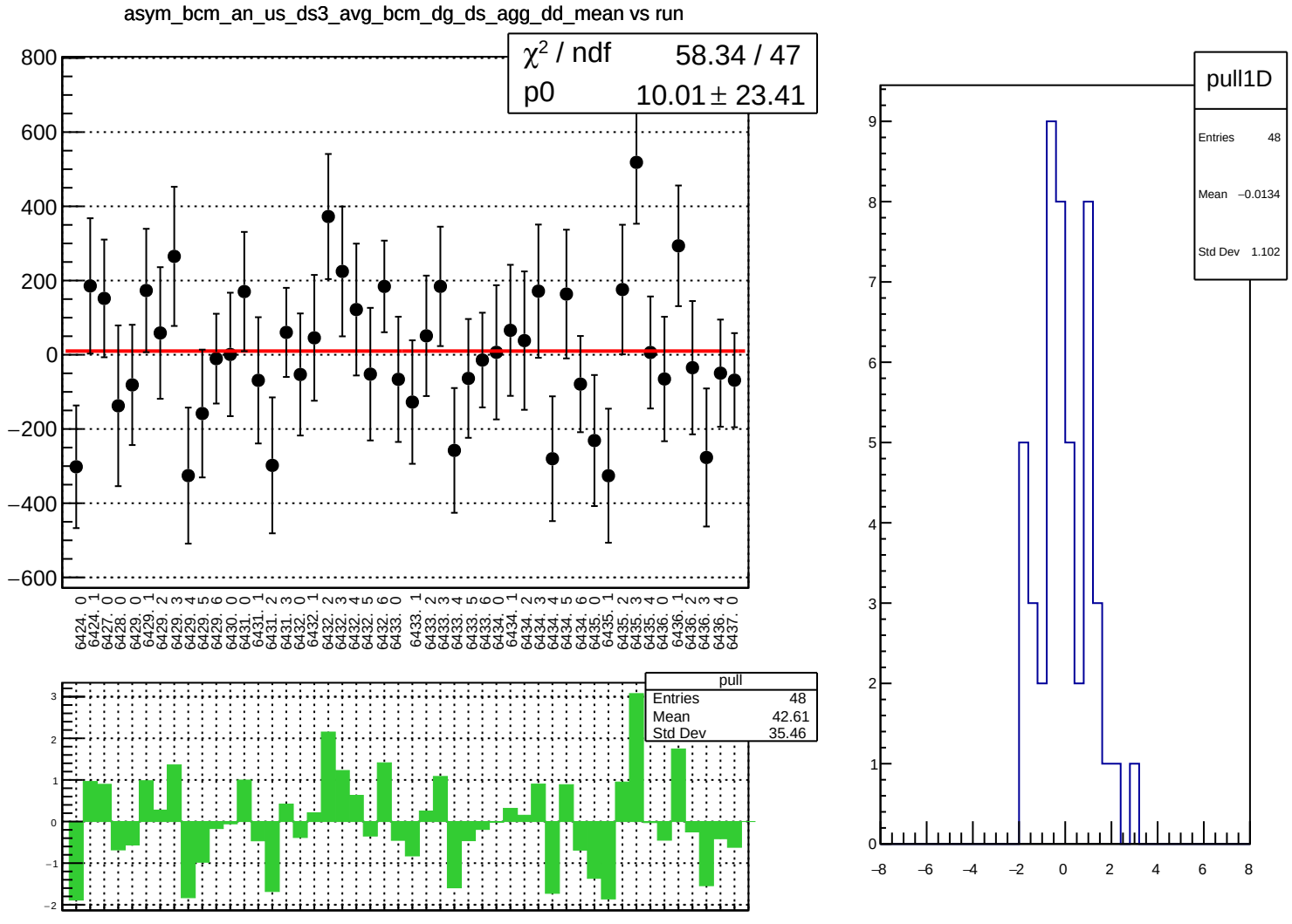

pull1D
Entries 48
Mean −0.01472
Std Dev 1.064

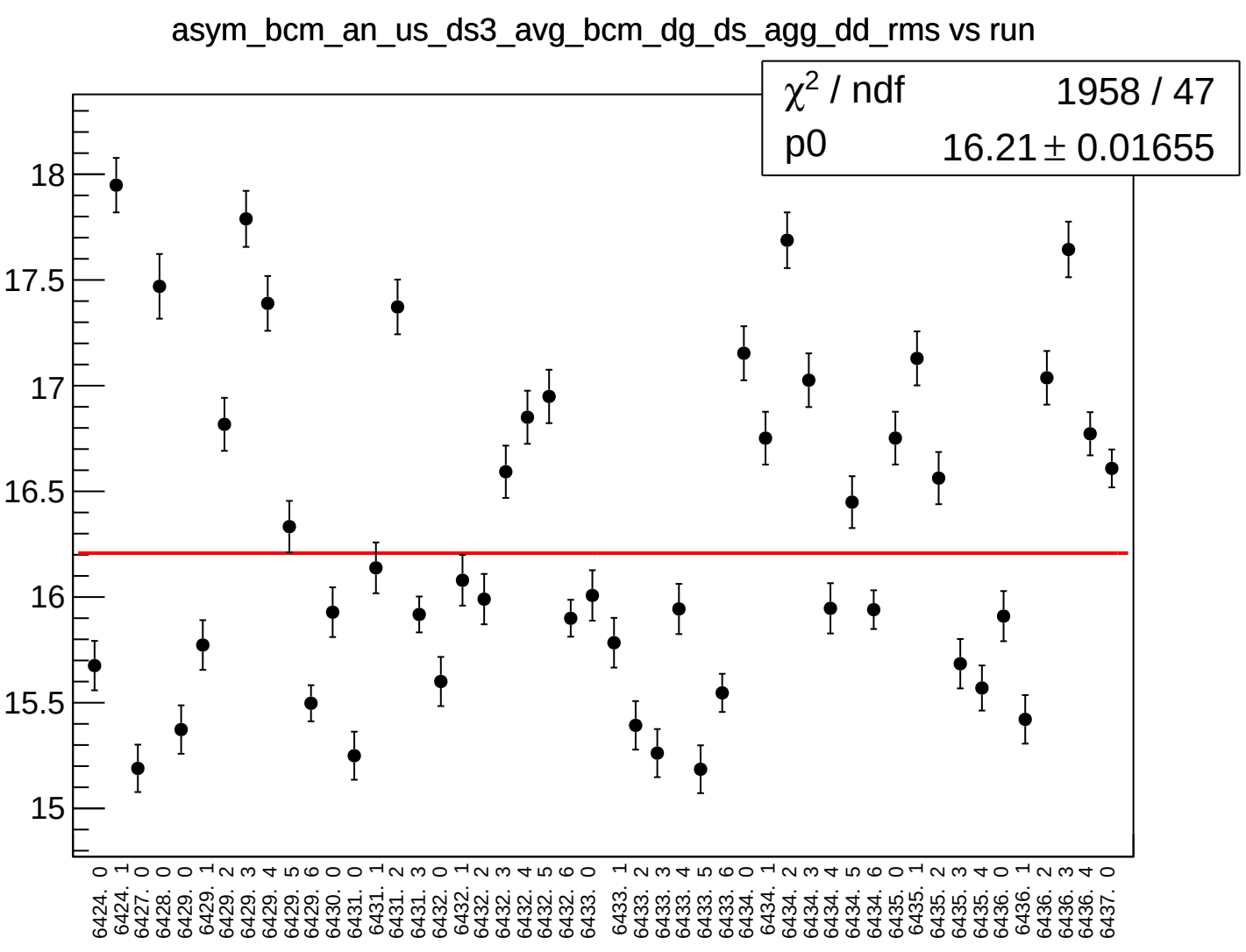

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2022 / 47
p0 16.34 ± 0.01669
18.5
18
17.5
17
16.5
16
15.5
15
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

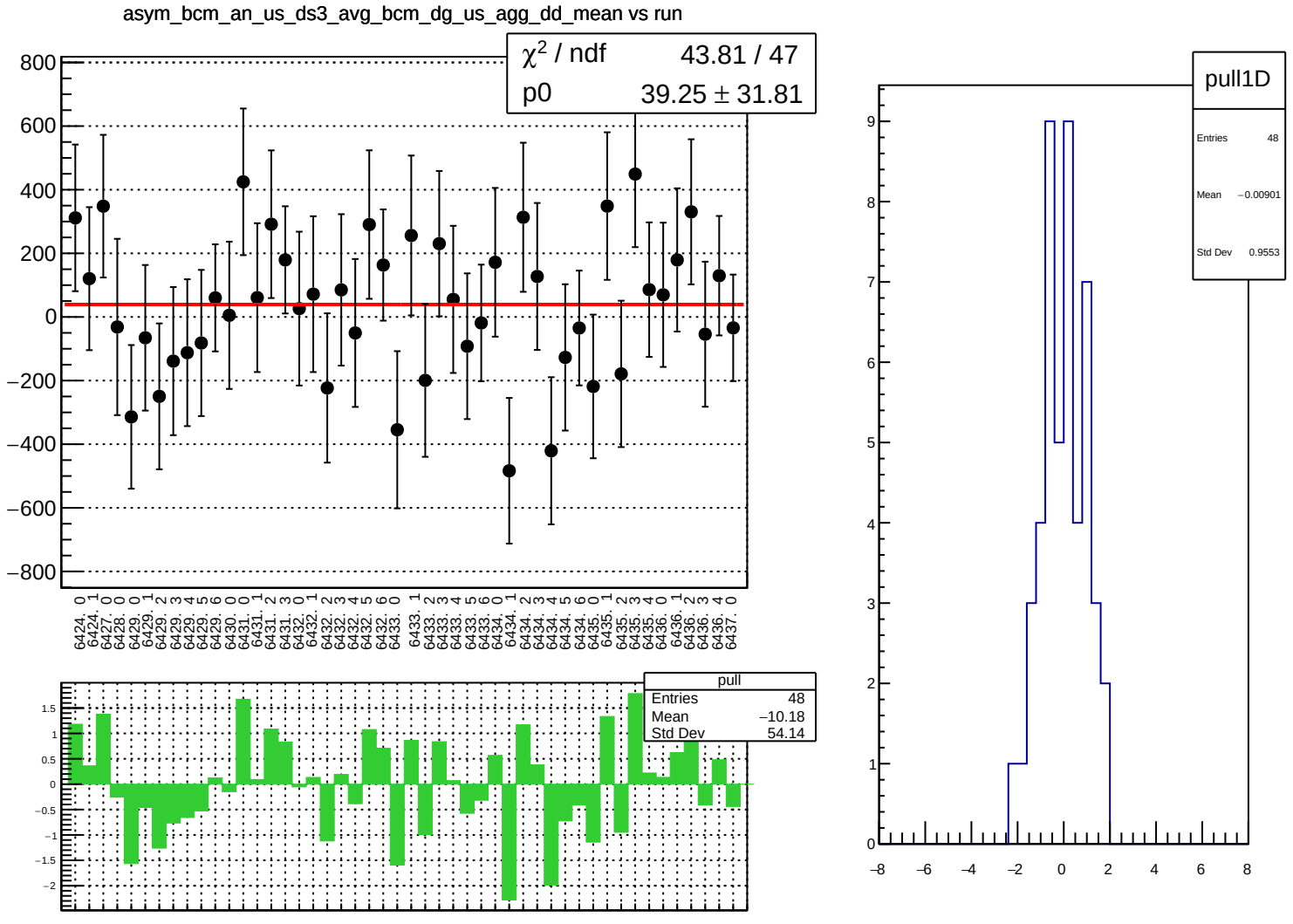

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 42.26 / 47
p0 34.64 ± 31.96
pull
Entries 48
Mean −8.879
Std Dev 52.23

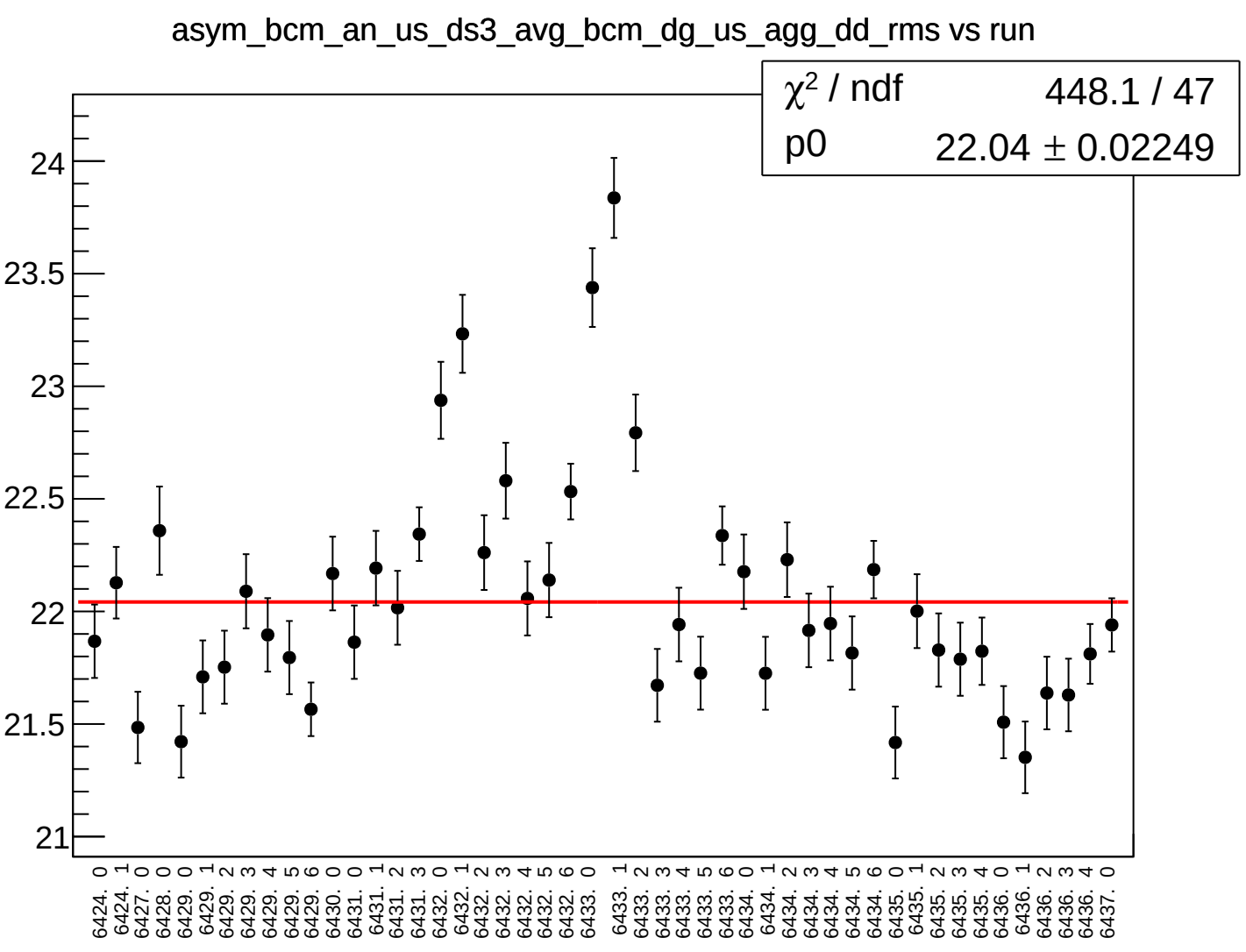

pull1D
Entries 48
Mean −0.009836
Std Dev 0.9383

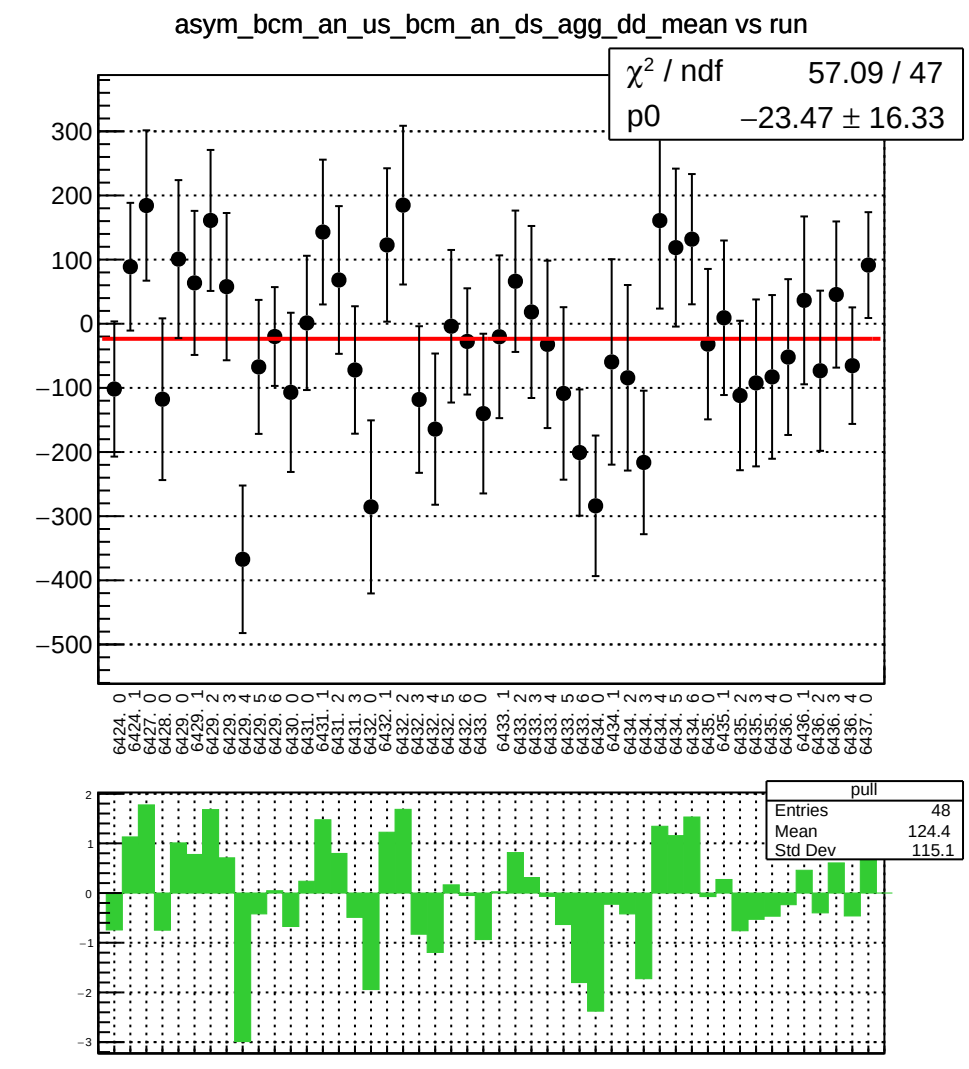

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 398.9 / 47
p0 22.15 ± 0.0226
24
23.5
23
22.5
22
21.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

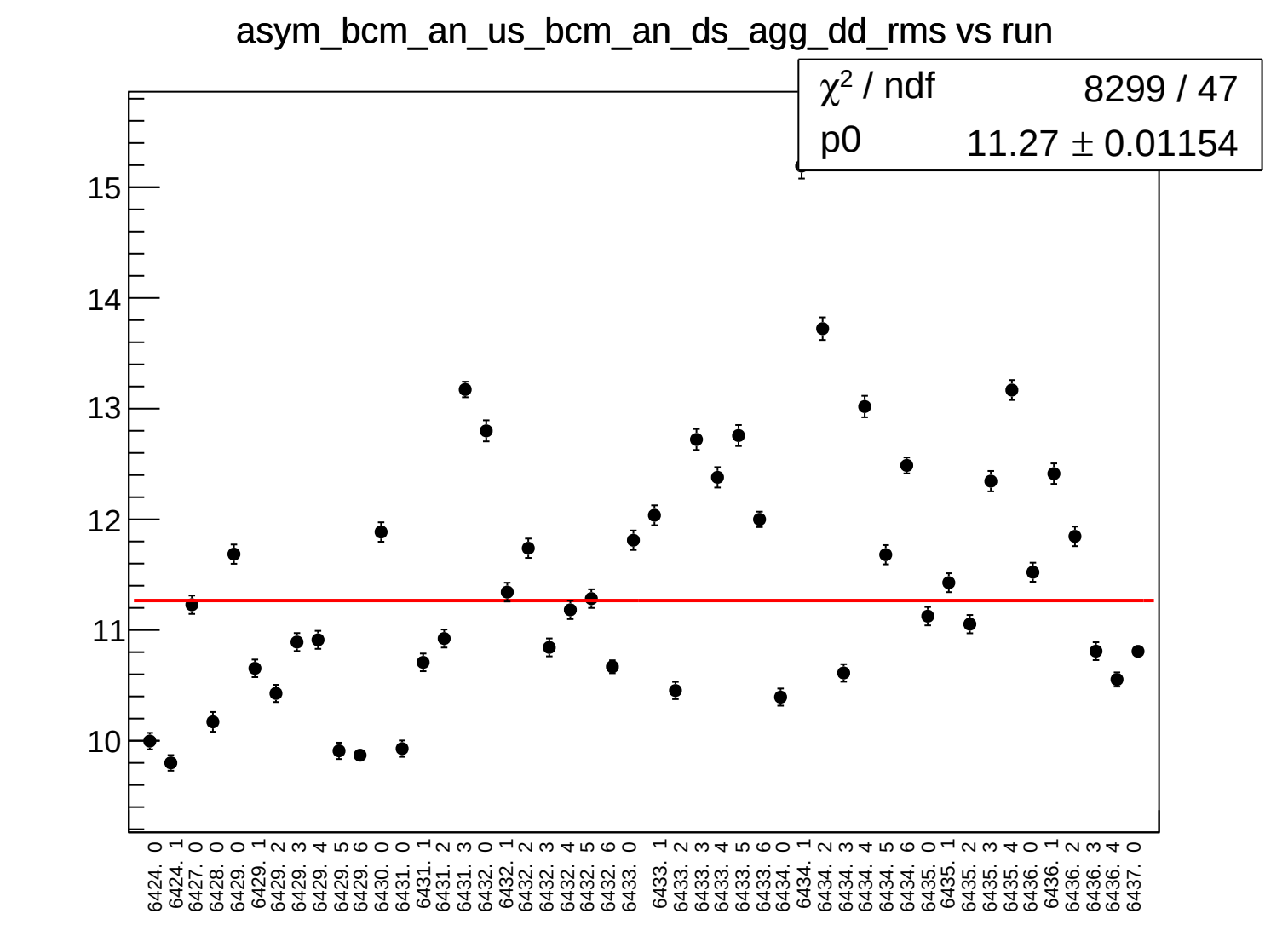

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 58.34 / 47
p0 10.01 ± 23.41
800
600
400
200
0
−200
−400
−600
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 42.61
Std Dev 35.46
3
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.0134
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

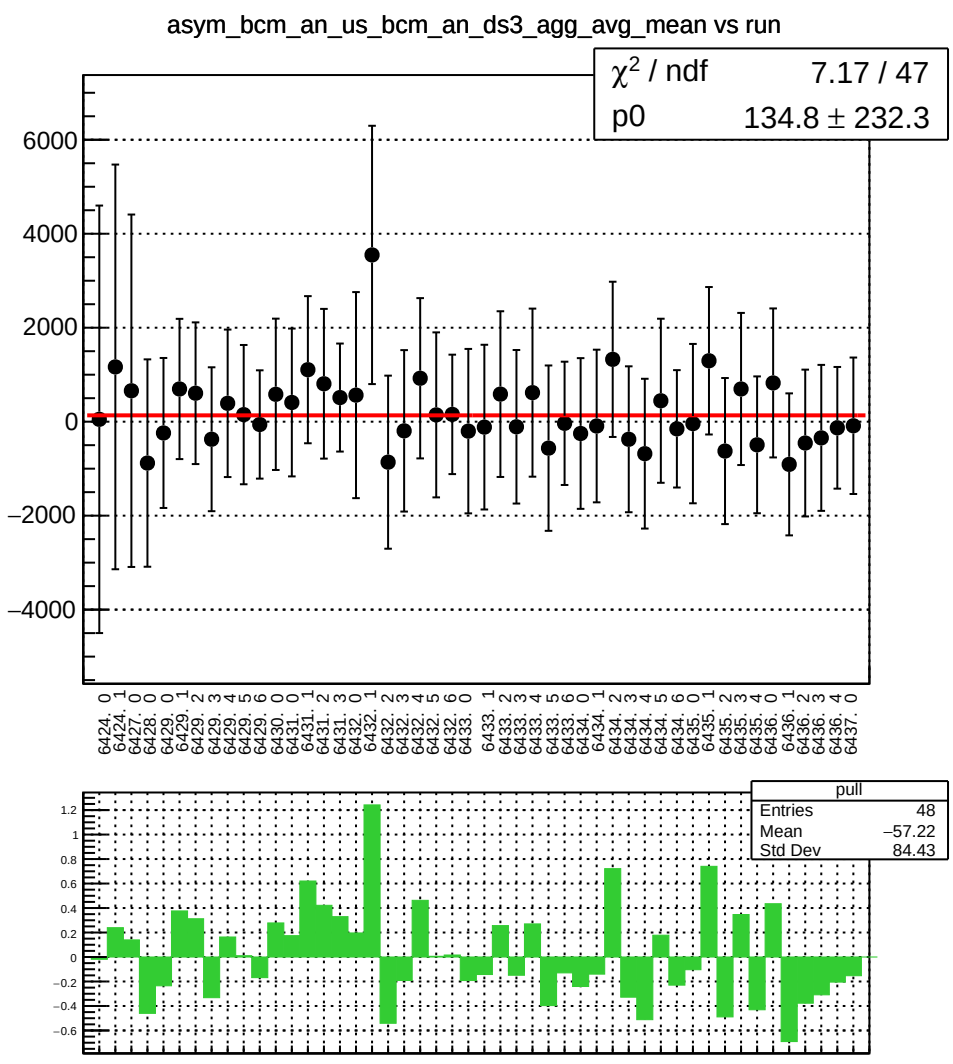

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1958 / 47
p0 16.21 ± 0.01655
18
17.5
17
16.5
16
15.5
15
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

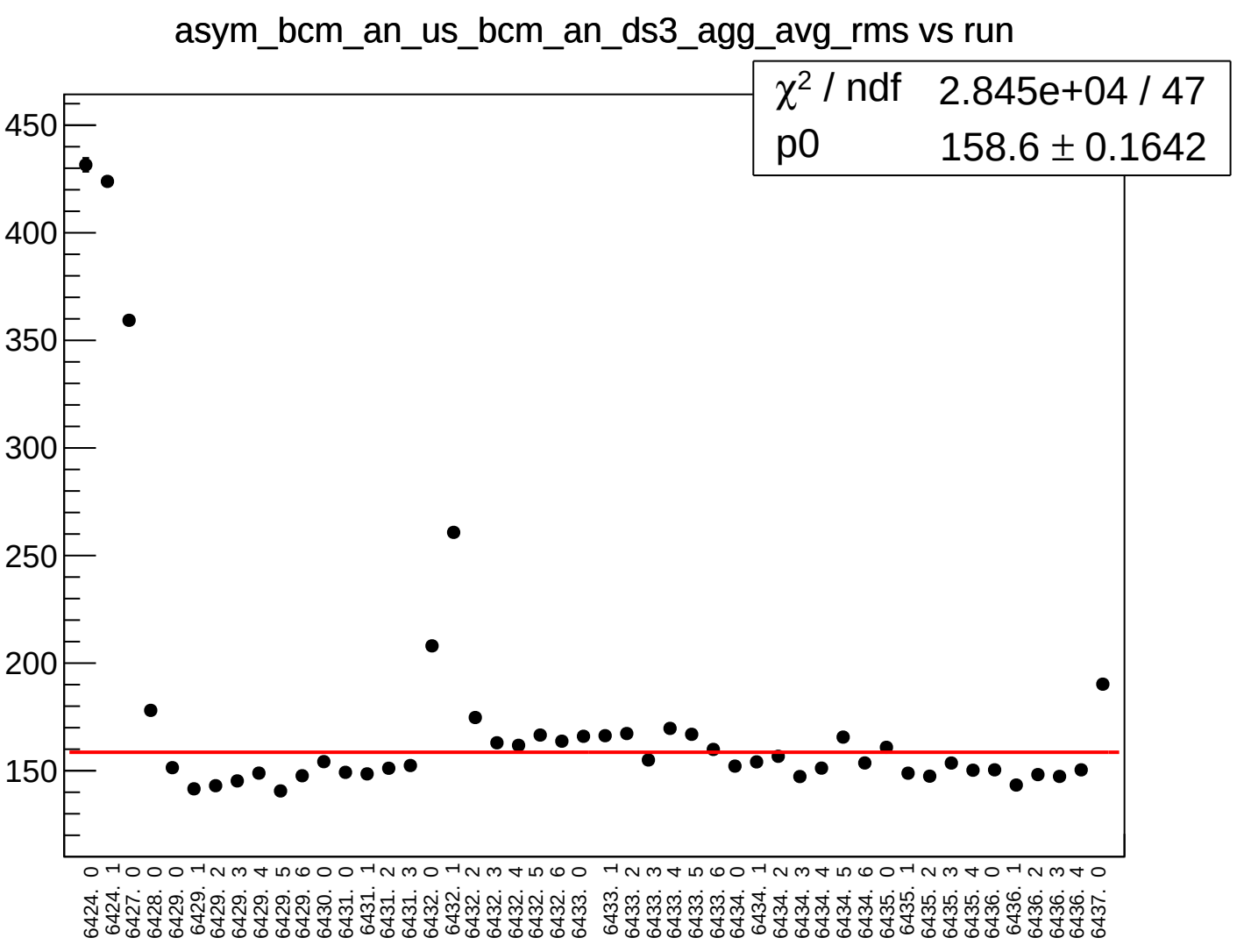

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 43.81 / 47
p0 39.25 ± 31.81
pull
Entries 48
Mean −10.18
Std Dev 54.14
pull1D
Entries 48
Mean −0.00901
Std Dev 0.9553

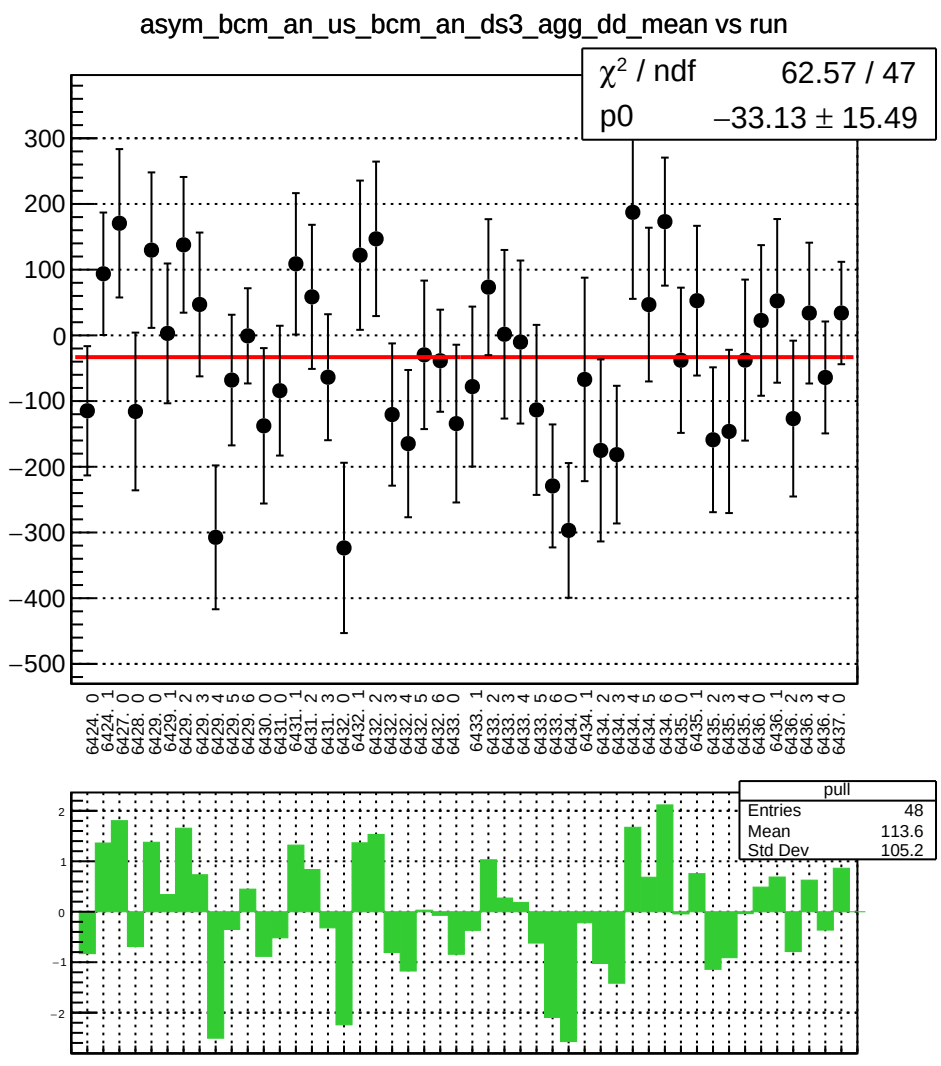

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 448.1 / 47
p0 22.04 ± 0.02249
24
23.5
23
22.5
22
21.5
21
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

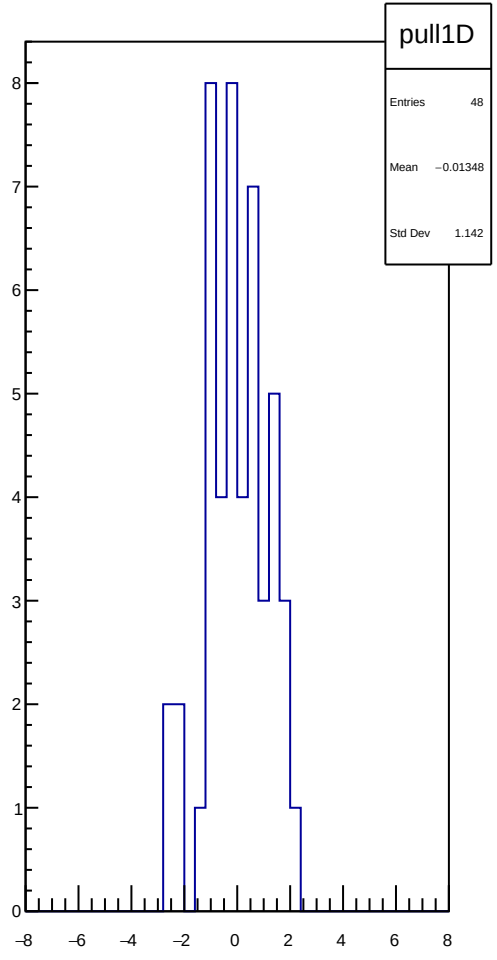

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.09 / 47
p0 −23.47 ± 16.33
300
200
100
0
−100
−200
−300
−400
−500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 124.4
Std Dev 115.1
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.01188
Std Dev 1.09
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

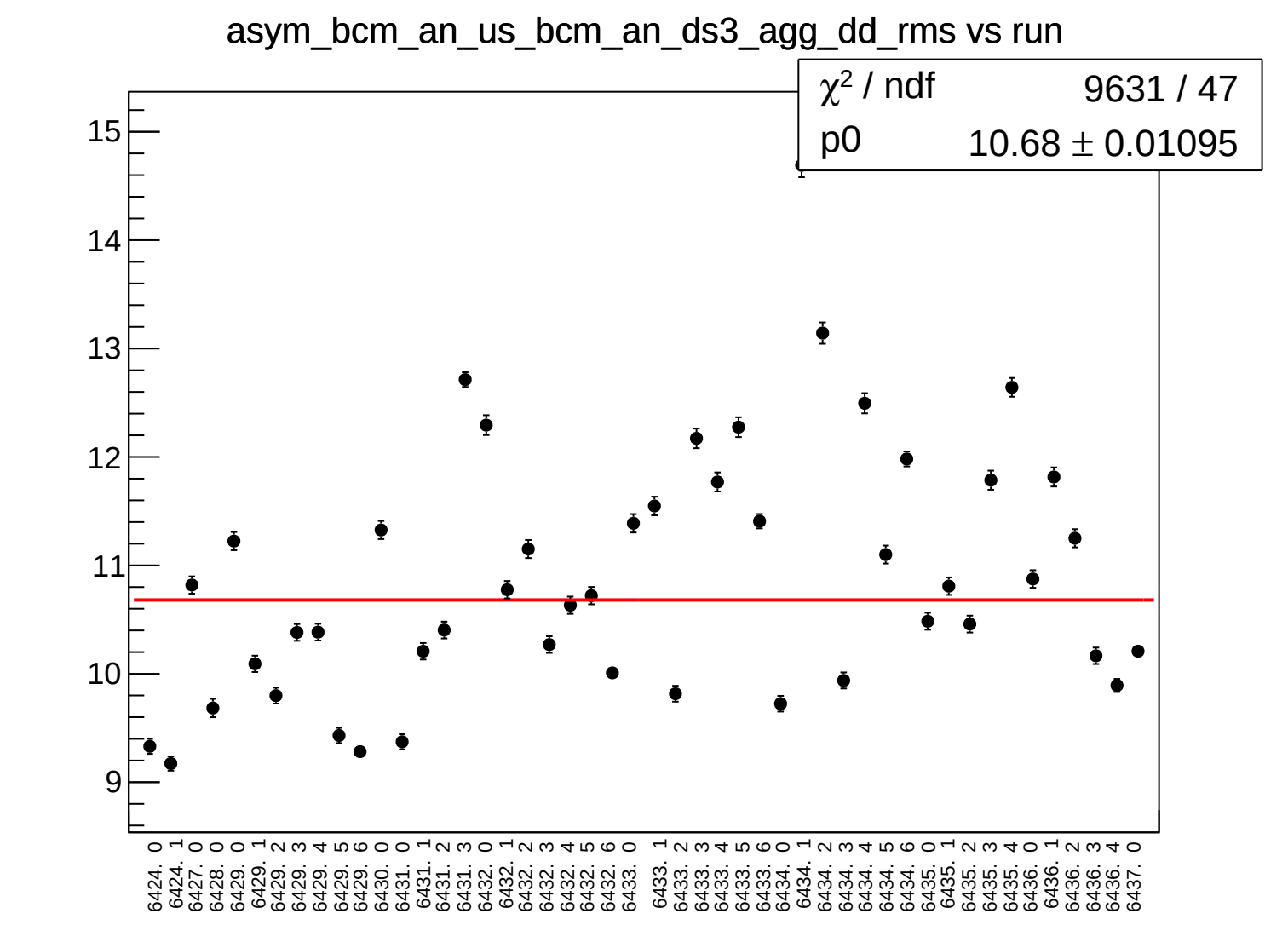

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8299 / 47
p0 11.27 ± 0.01154
15
14
13
12
11
10
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

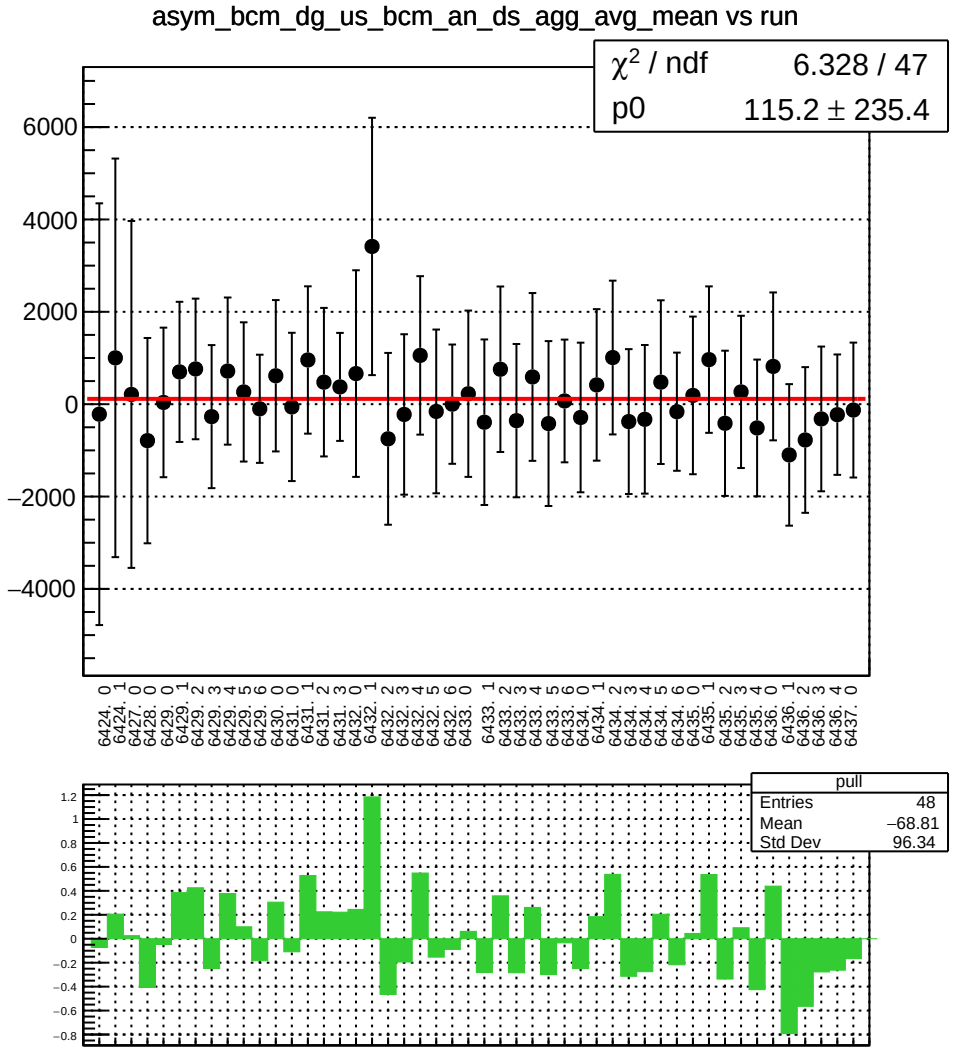

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.17 / 47
p0 134.8 ± 232.3
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −57.22
Std Dev 84.43
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 48
Mean 0.01611
Std Dev 0.3862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

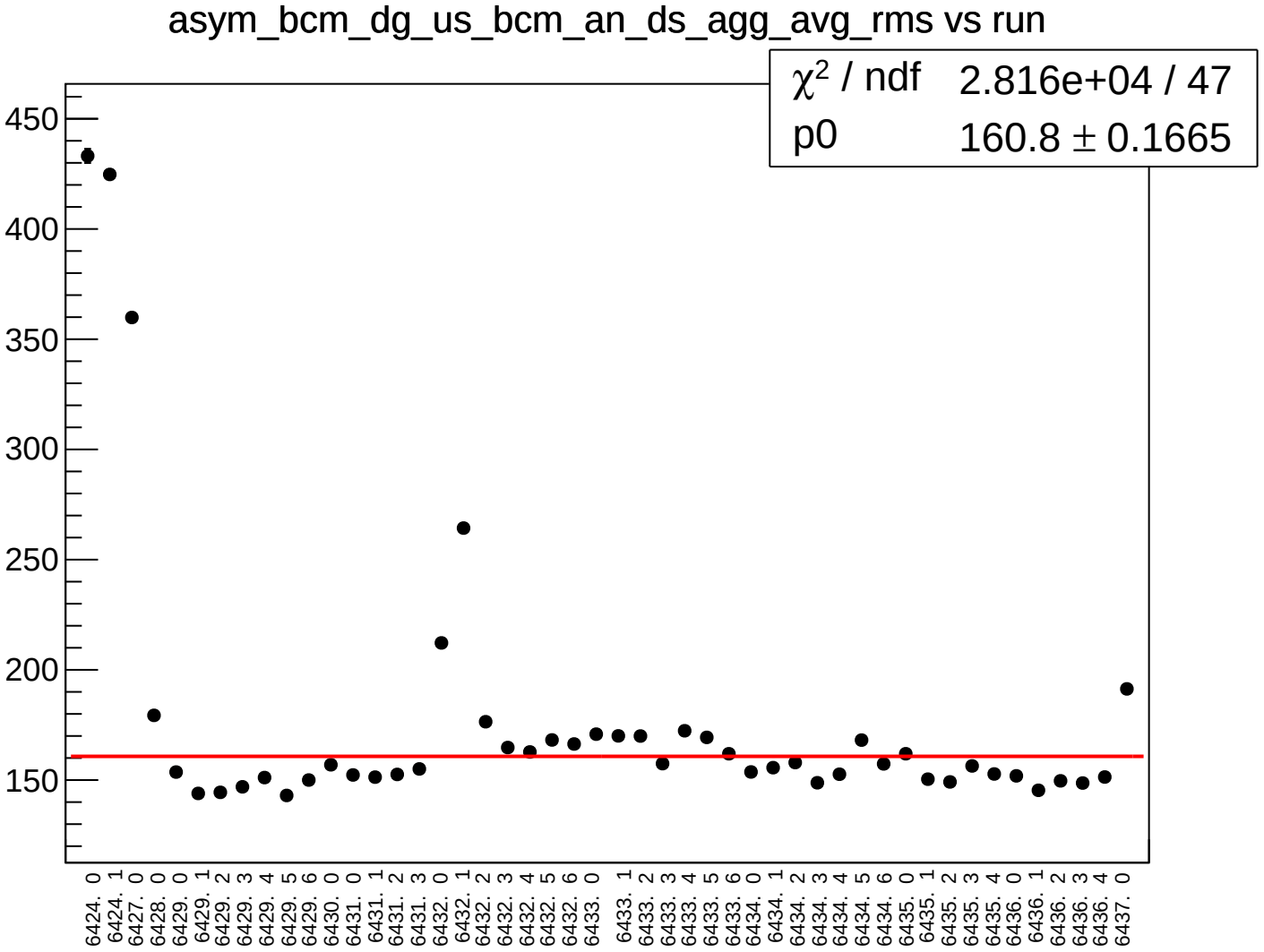

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.845e+04 / 47
p0 158.6 ± 0.1642
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

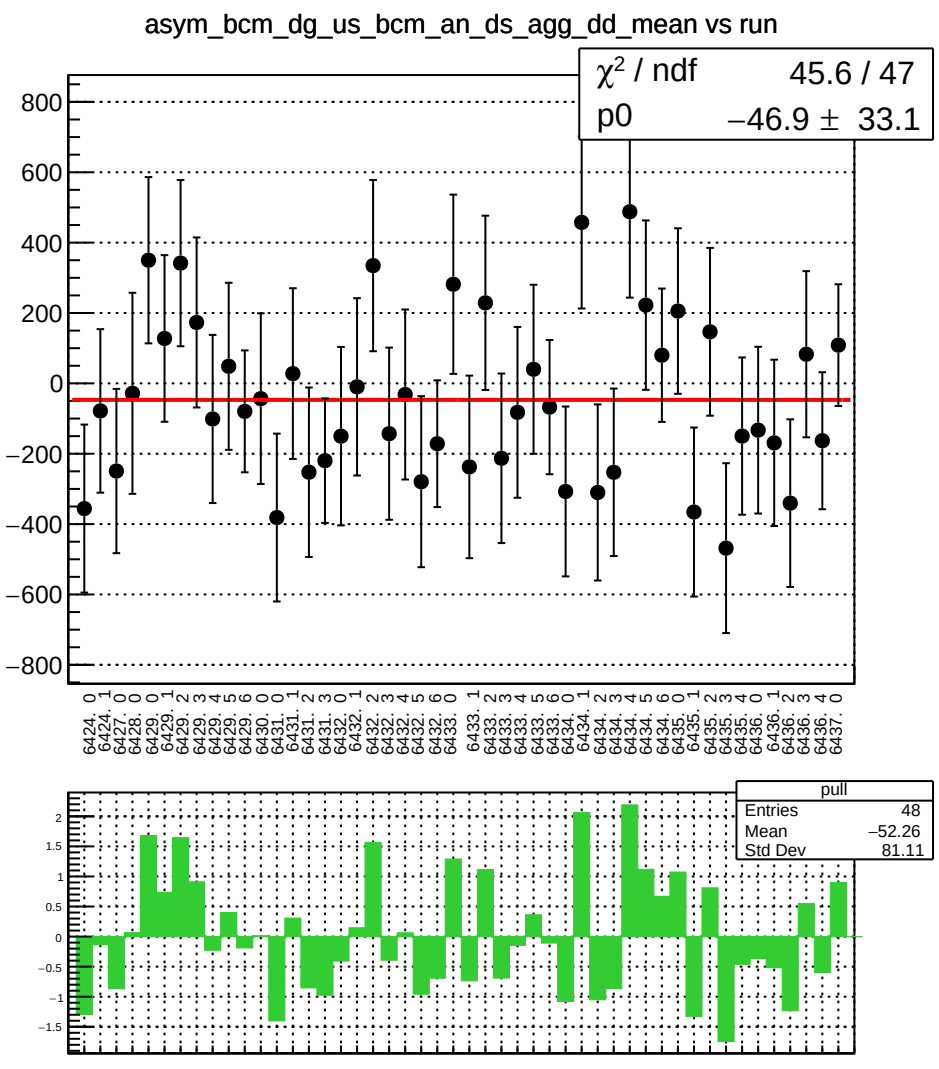

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 62.57 / 47
p0 −33.13 ± 15.49
pull
Entries 48
Mean 113.6
Std Dev 105.2

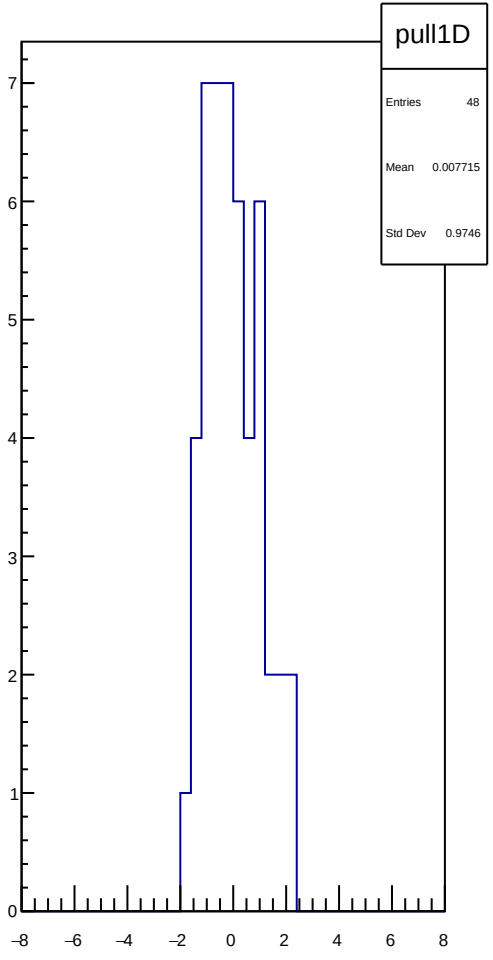

pull1D
Entries 48
Mean −0.01348
Std Dev 1.142

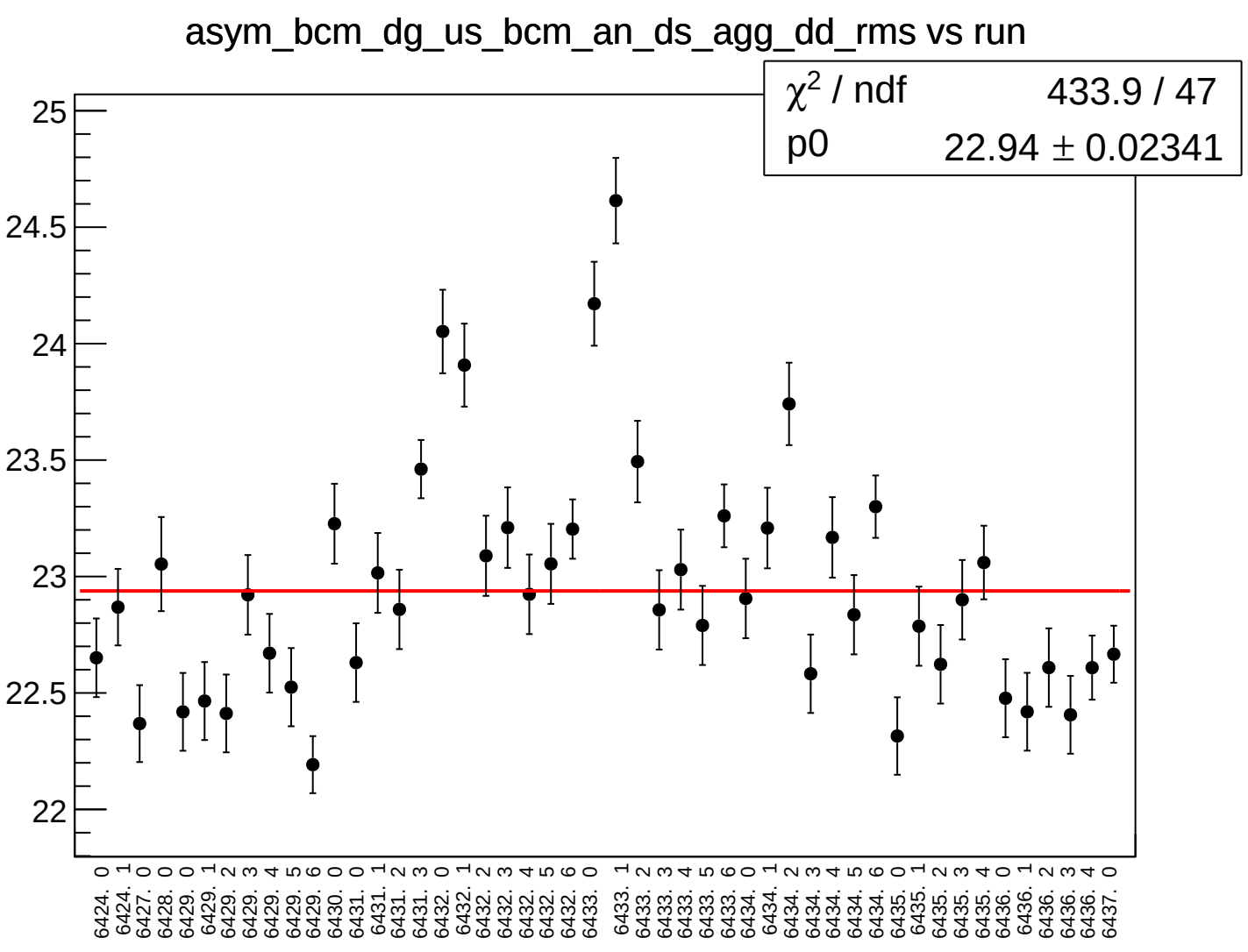

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 9631 / 47
p0 10.68 ± 0.01095
15
14
13
12
11
10
9
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.328 / 47
p0 115.2 ± 235.4
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −68.81
Std Dev 96.34
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.01558
Std Dev 0.3628
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.816e+04 / 47
p0 160.8 ± 0.1665
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 45.6 / 47
p0 −46.9 ± 33.1
pull
Entries 48
Mean −52.26
Std Dev 81.11


pull1D
Entries 48
Mean 0.007715
Std Dev 0.9746


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 433.9 / 47
p0 22.94 ± 0.02341
25
24.5
24
23.5
23
22.5
22
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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6433. 2
6433. 3
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6434. 0
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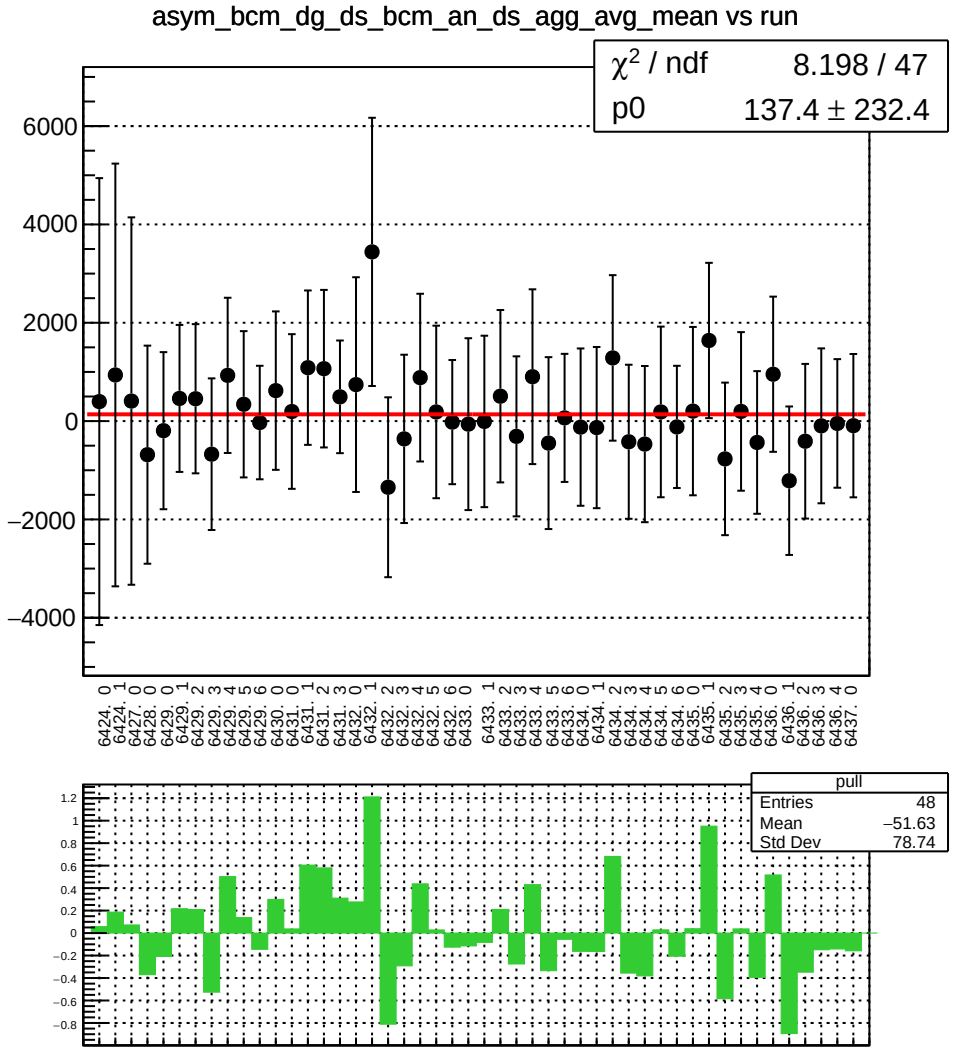
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.198 / 47
p0 137.4 ± 232.4
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
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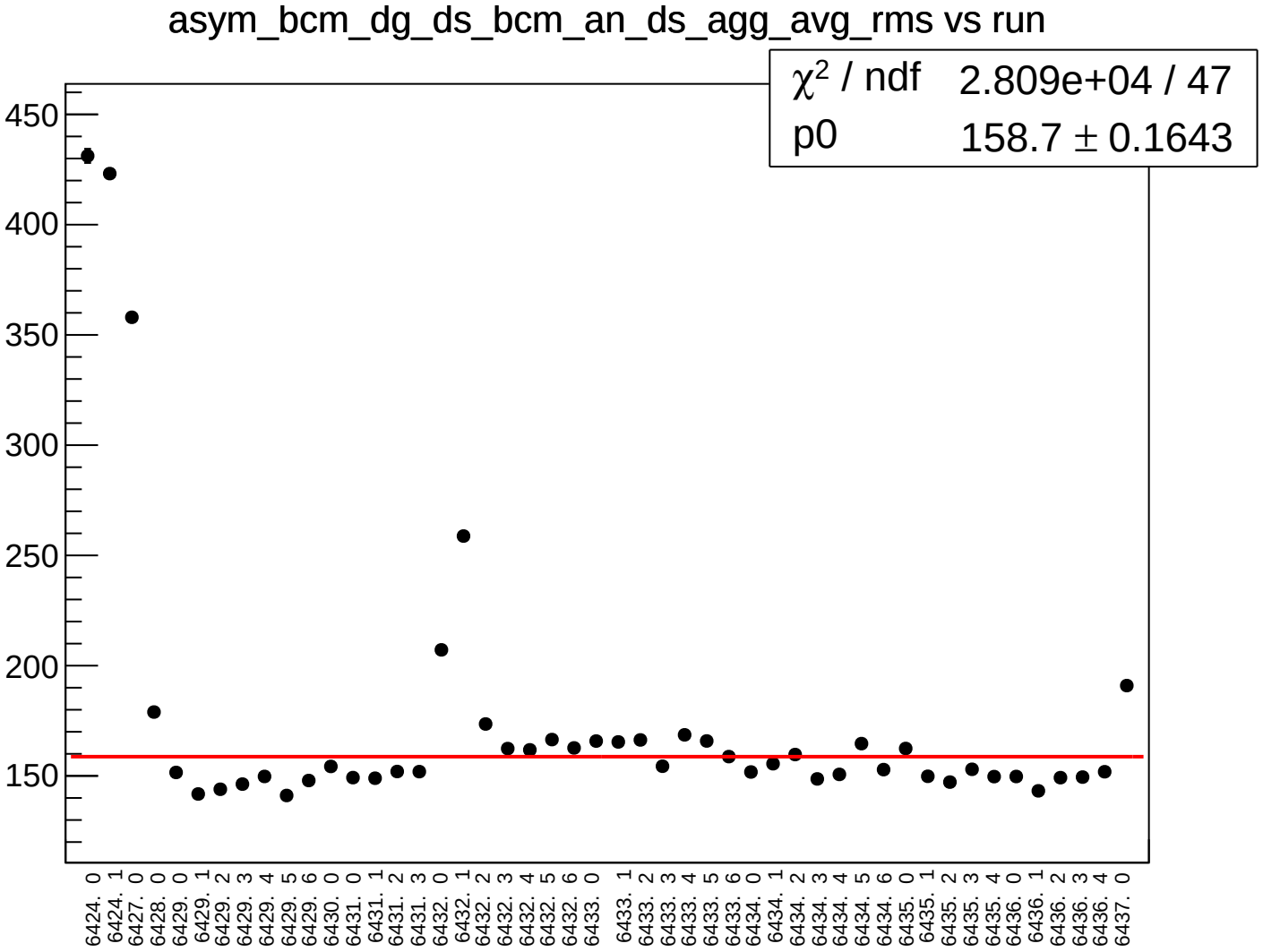
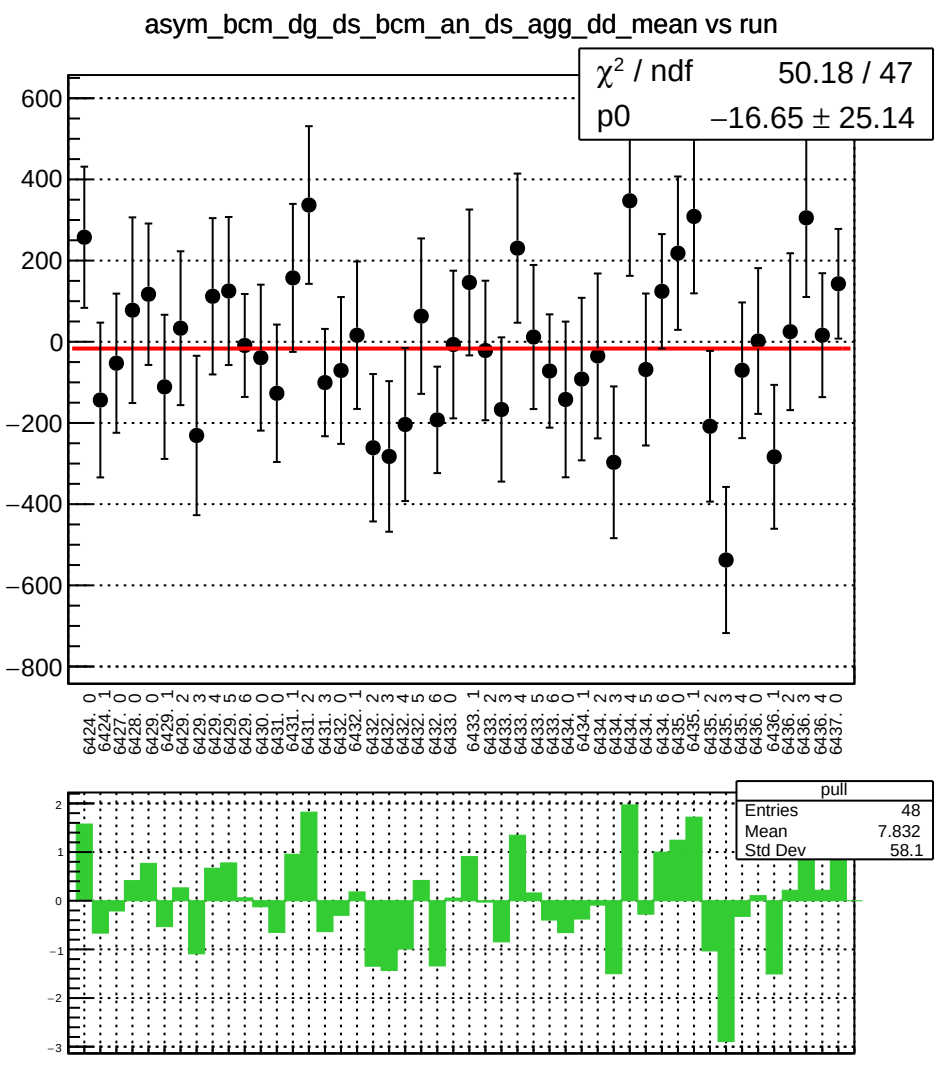
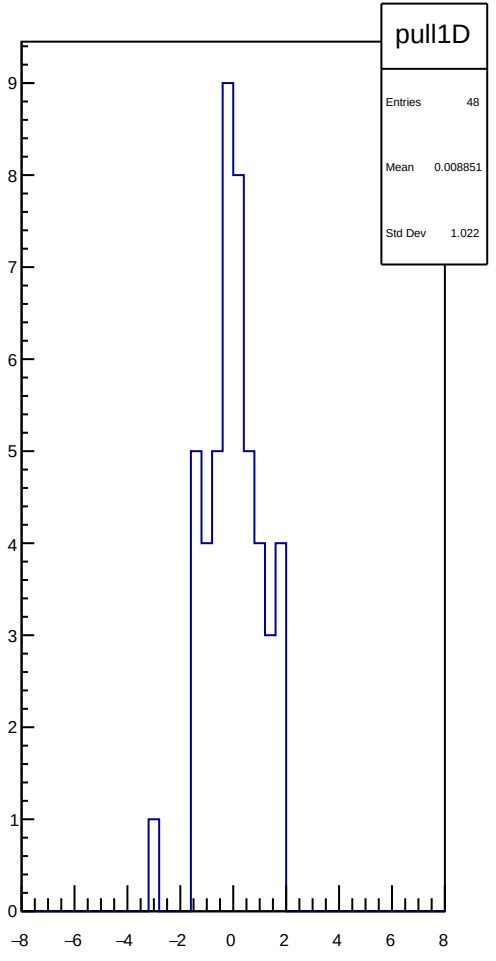
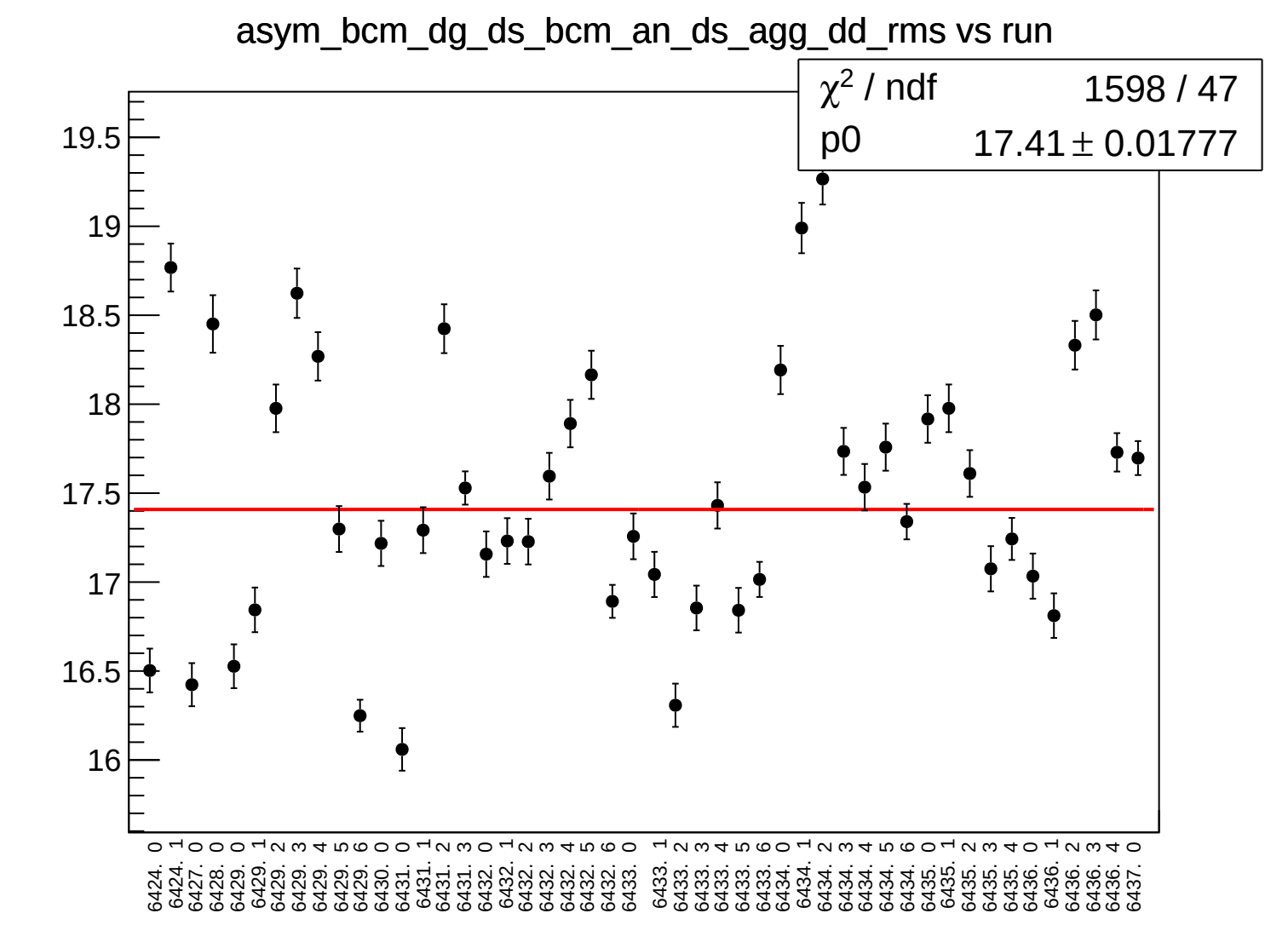
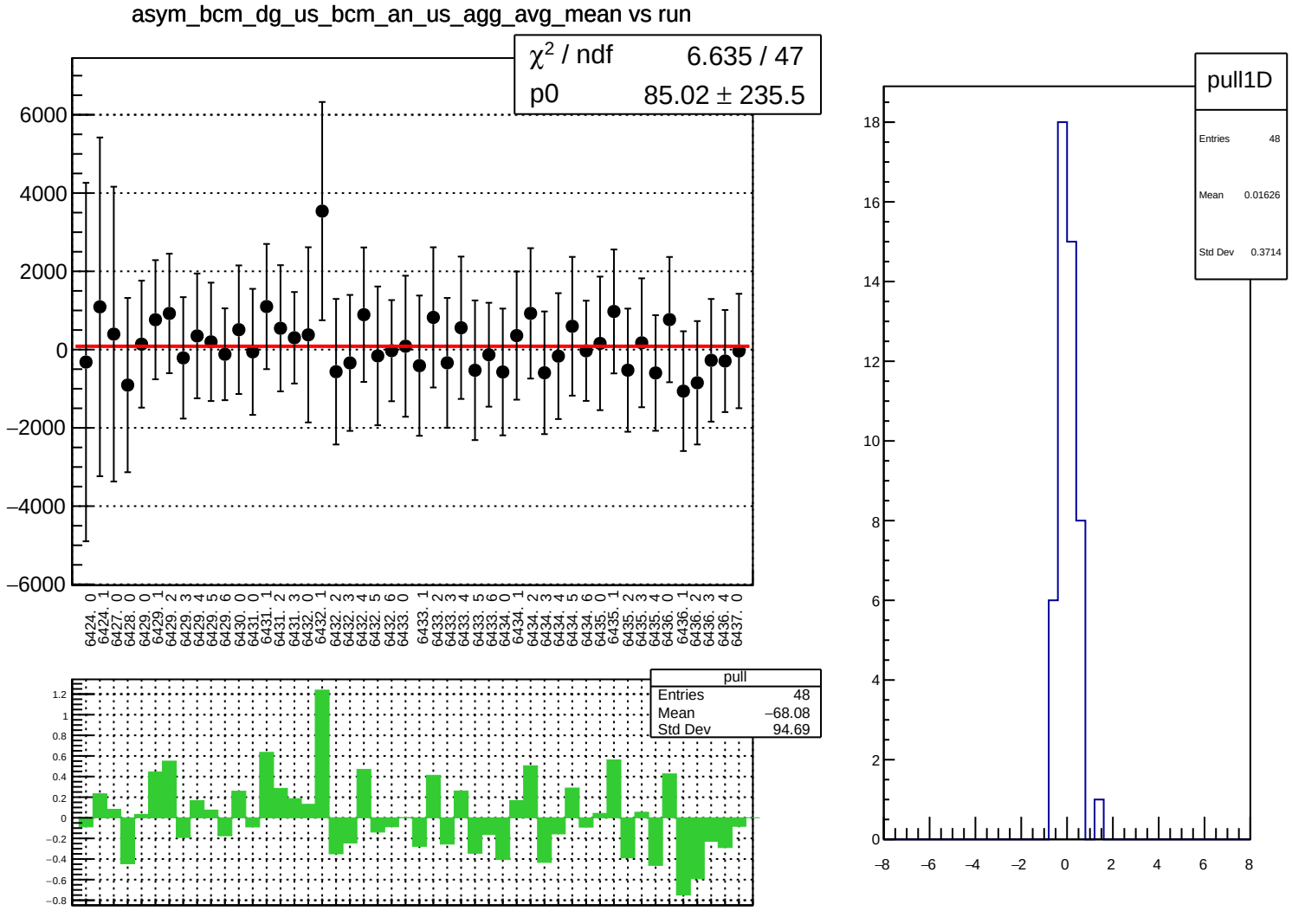
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −51.63
Std Dev 78.74
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.01637
Std Dev 0.4129
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

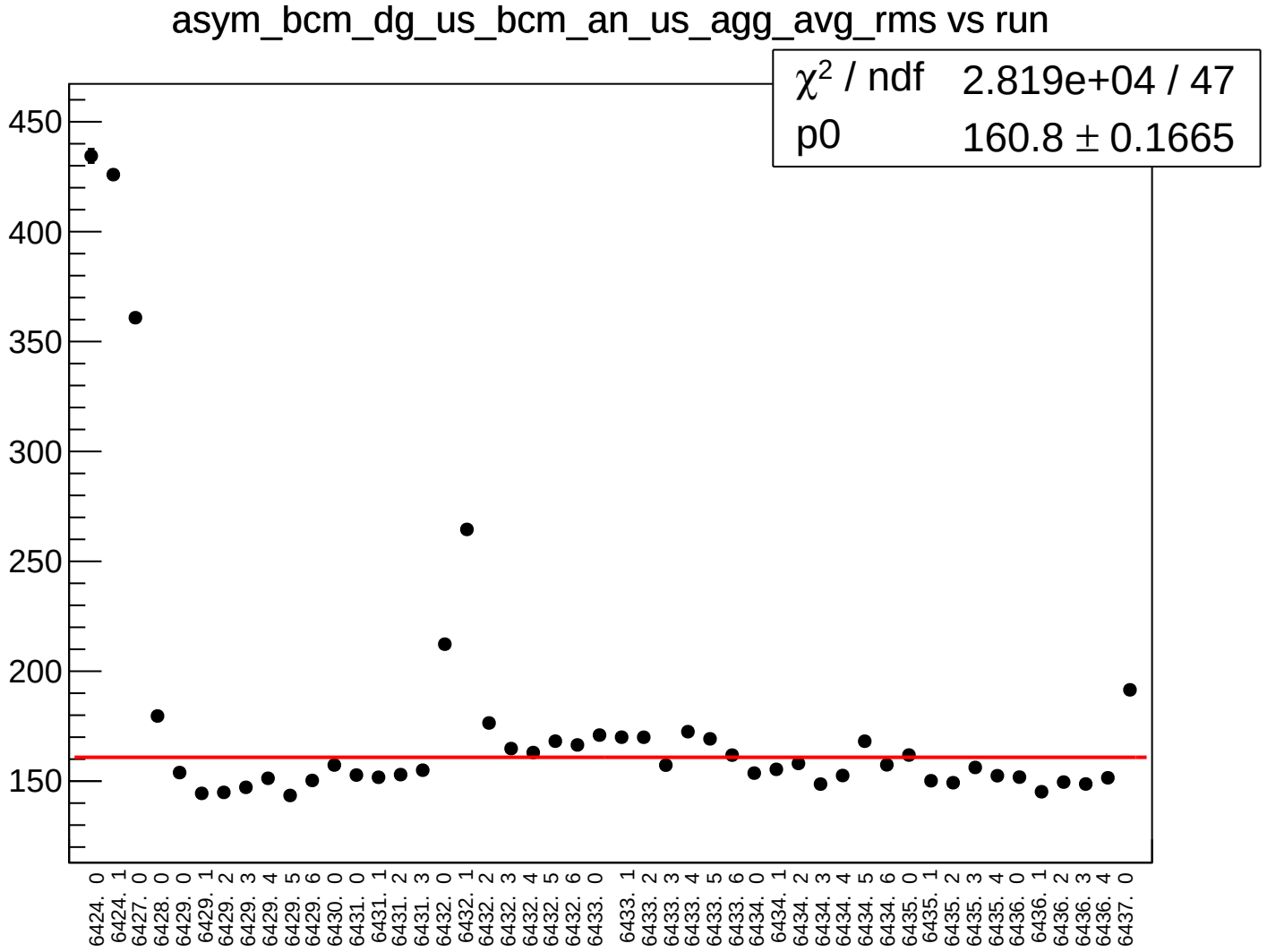

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.809e+04 / 47
p0 158.7 ± 0.1643
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

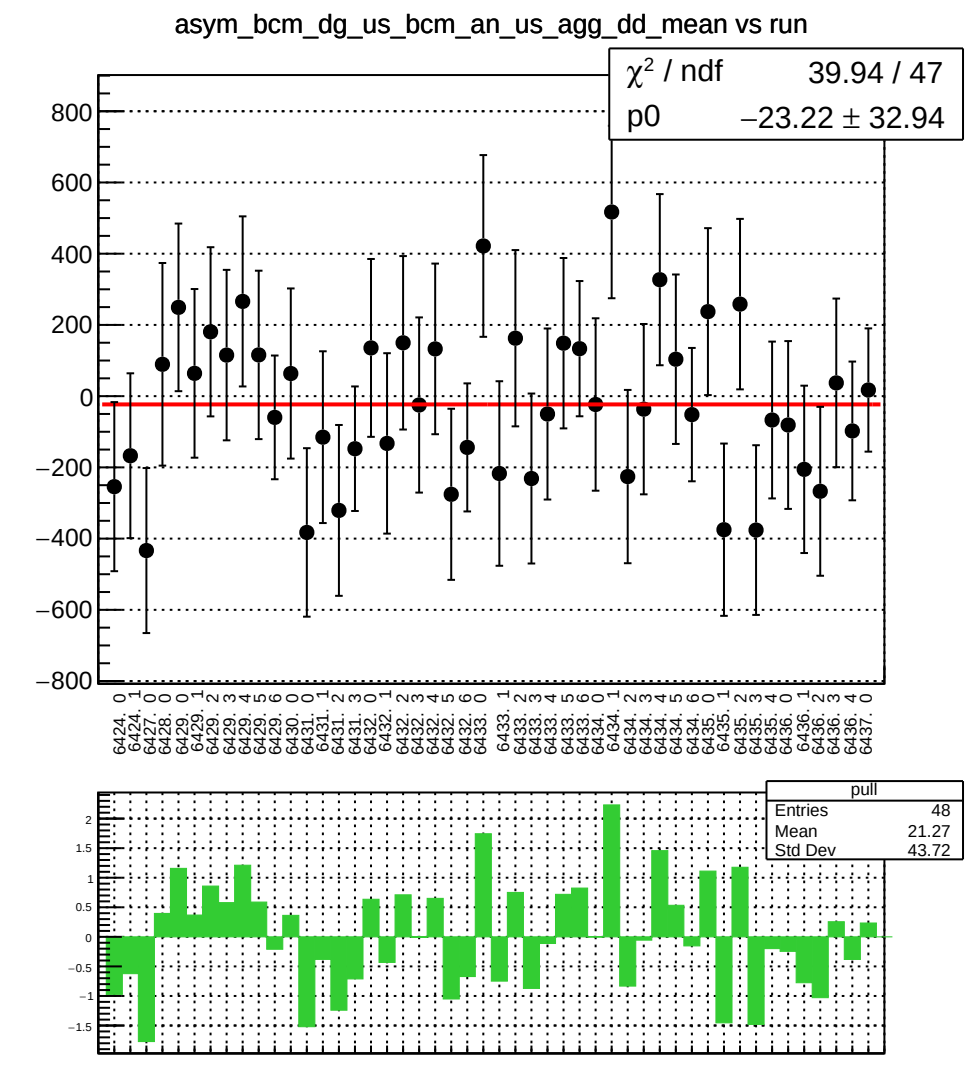

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.18 / 47
p0 −16.65 ± 25.14
pull
Entries 48
Mean 7.832
Std Dev 58.1

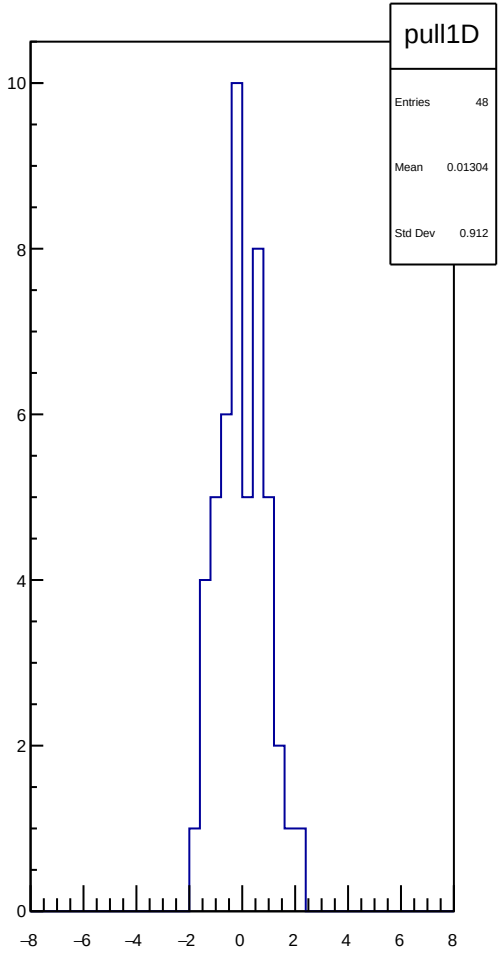

pull1D
Entries 48
Mean 0.008851
Std Dev 1.022

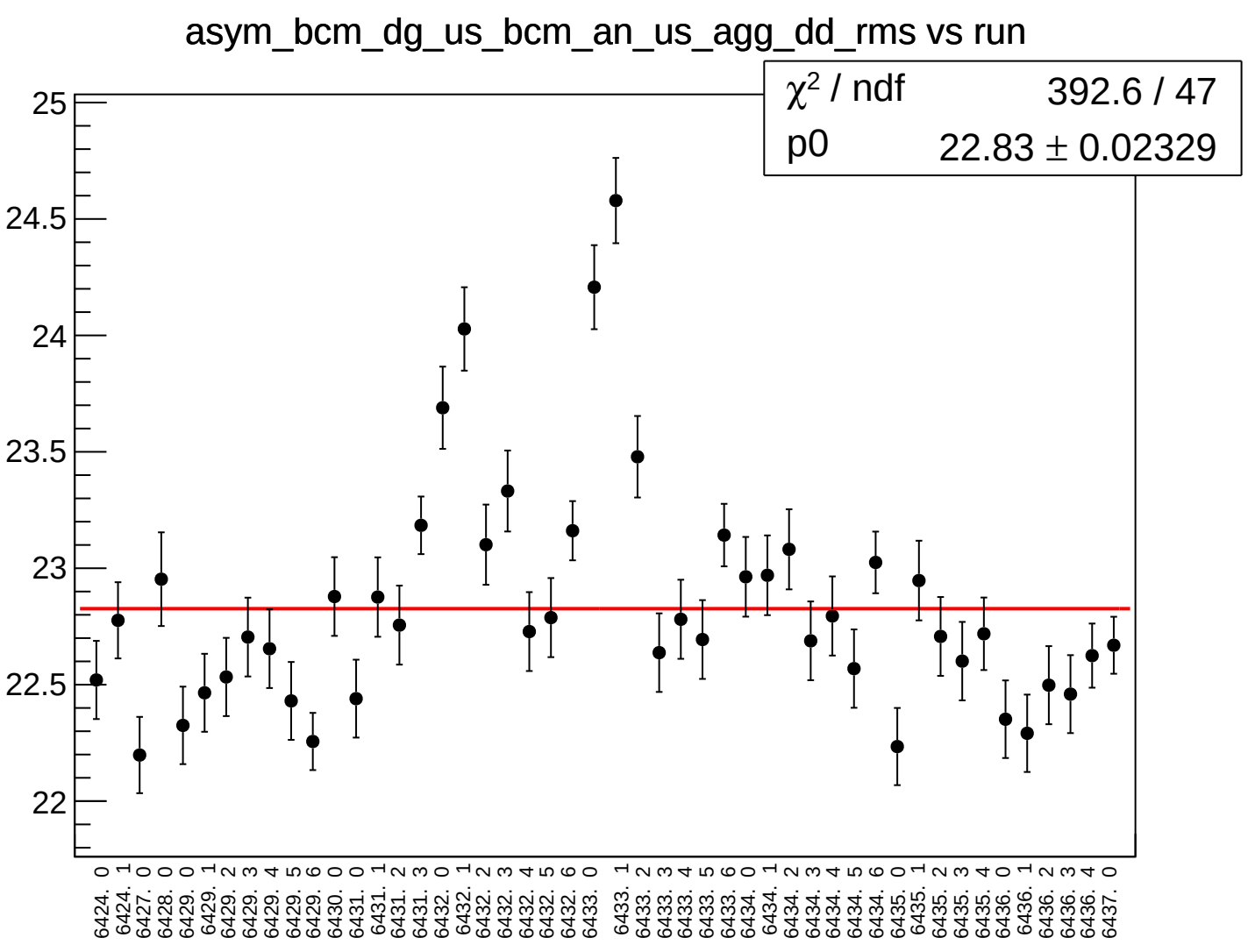

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1598 / 47
p0 17.41 ± 0.01777
19.5
19
18.5
18
17.5
17
16.5
16
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

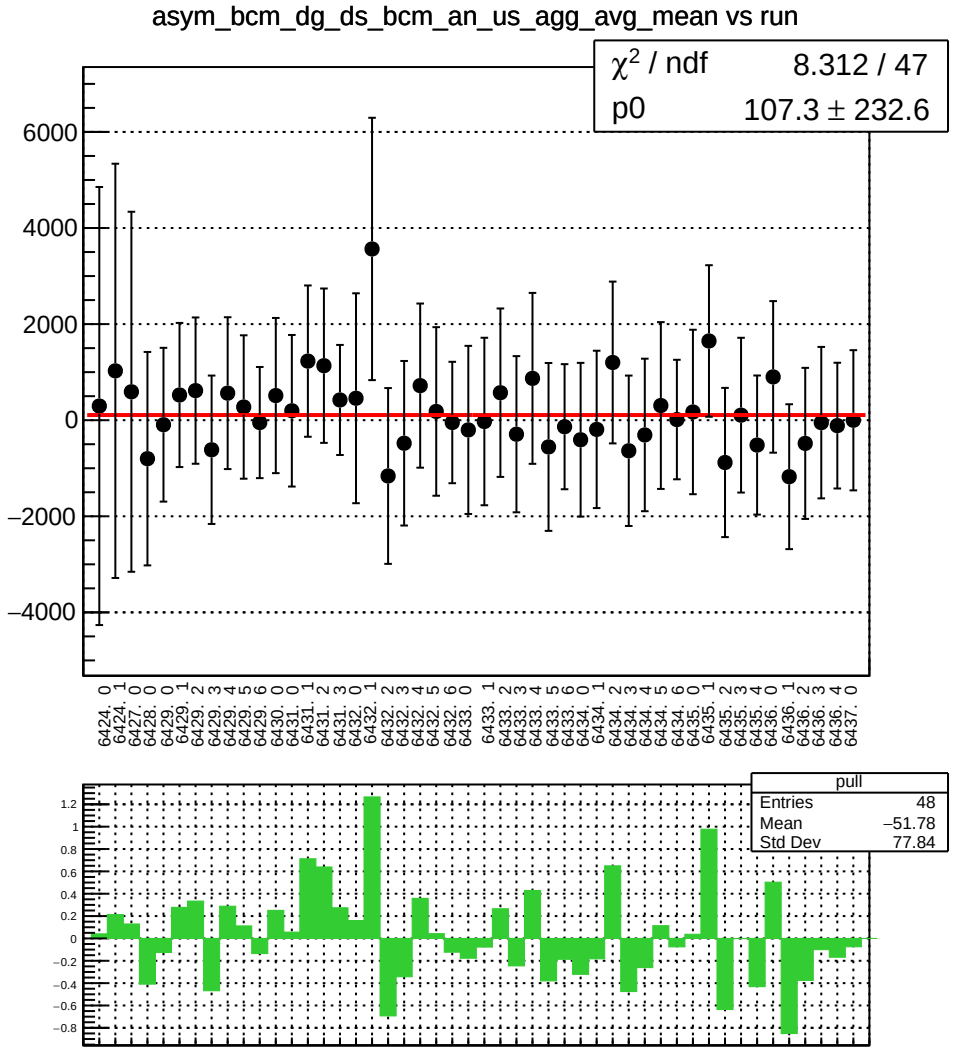

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.635 / 47
p0 85.02 ± 235.5
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −68.08
Std Dev 94.69
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.01626
Std Dev 0.3714
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

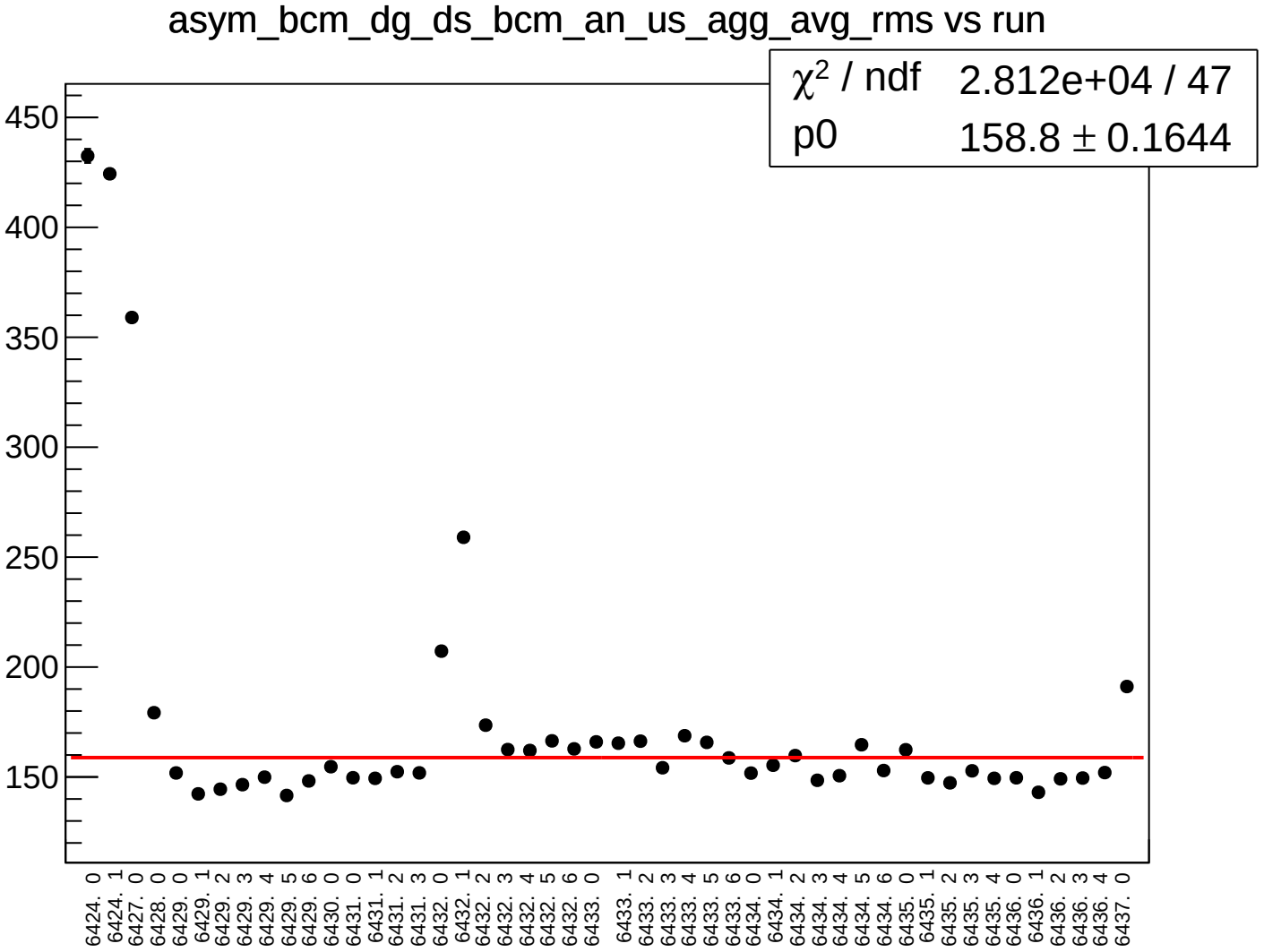

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.819e+04 / 47
p0 160.8 ± 0.1665
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

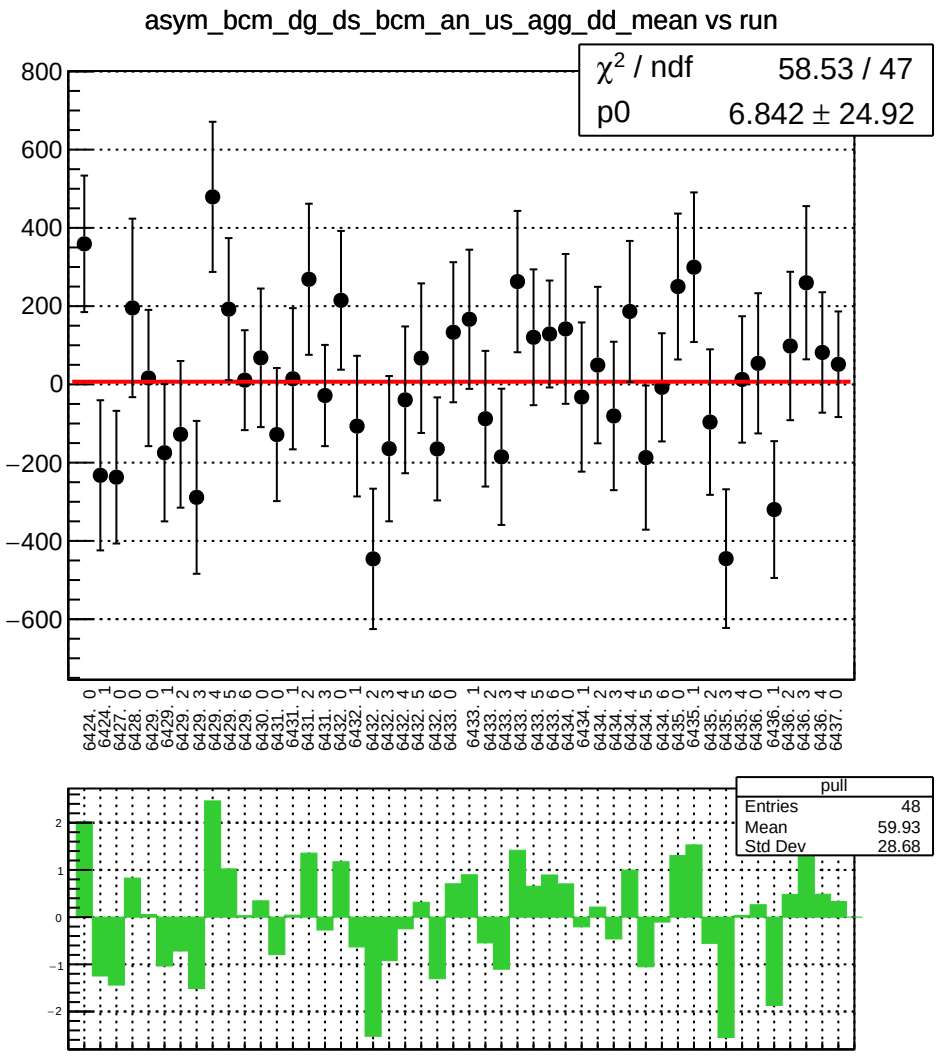

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 39.94 / 47
p0 −23.22 ± 32.94
pull
Entries 48
Mean 21.27
Std Dev 43.72

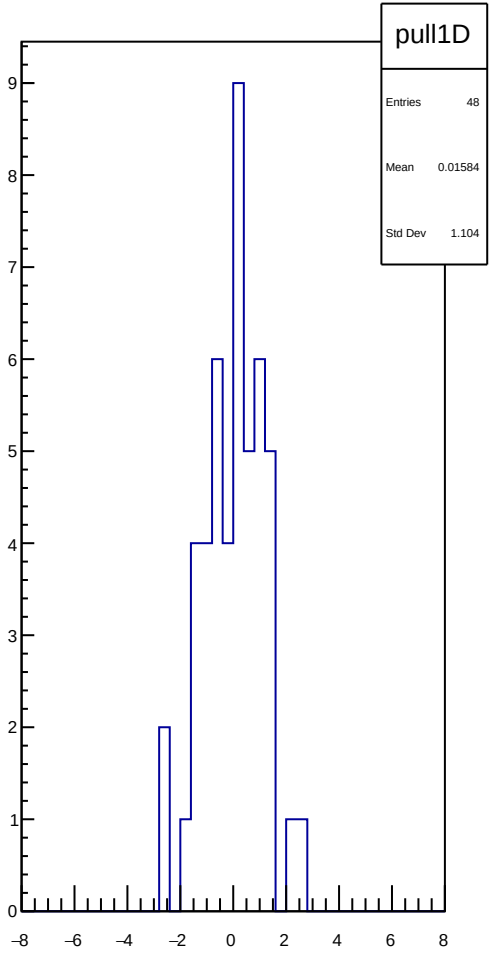

pull1D
Entries 48
Mean 0.01304
Std Dev 0.912

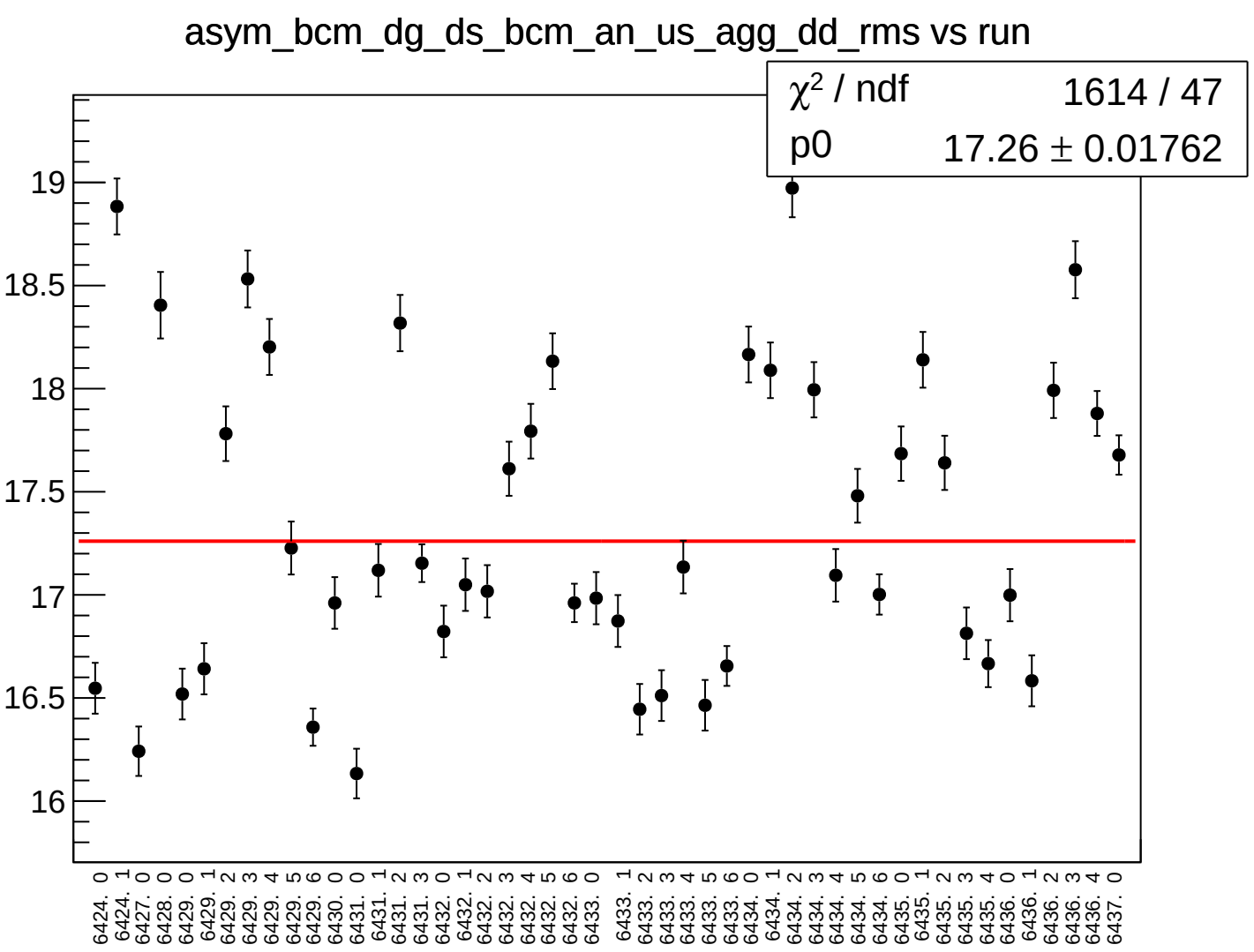

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 392.6 / 47
p0 22.83 ± 0.02329
25
24.5
24
23.5
23
22.5
22
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

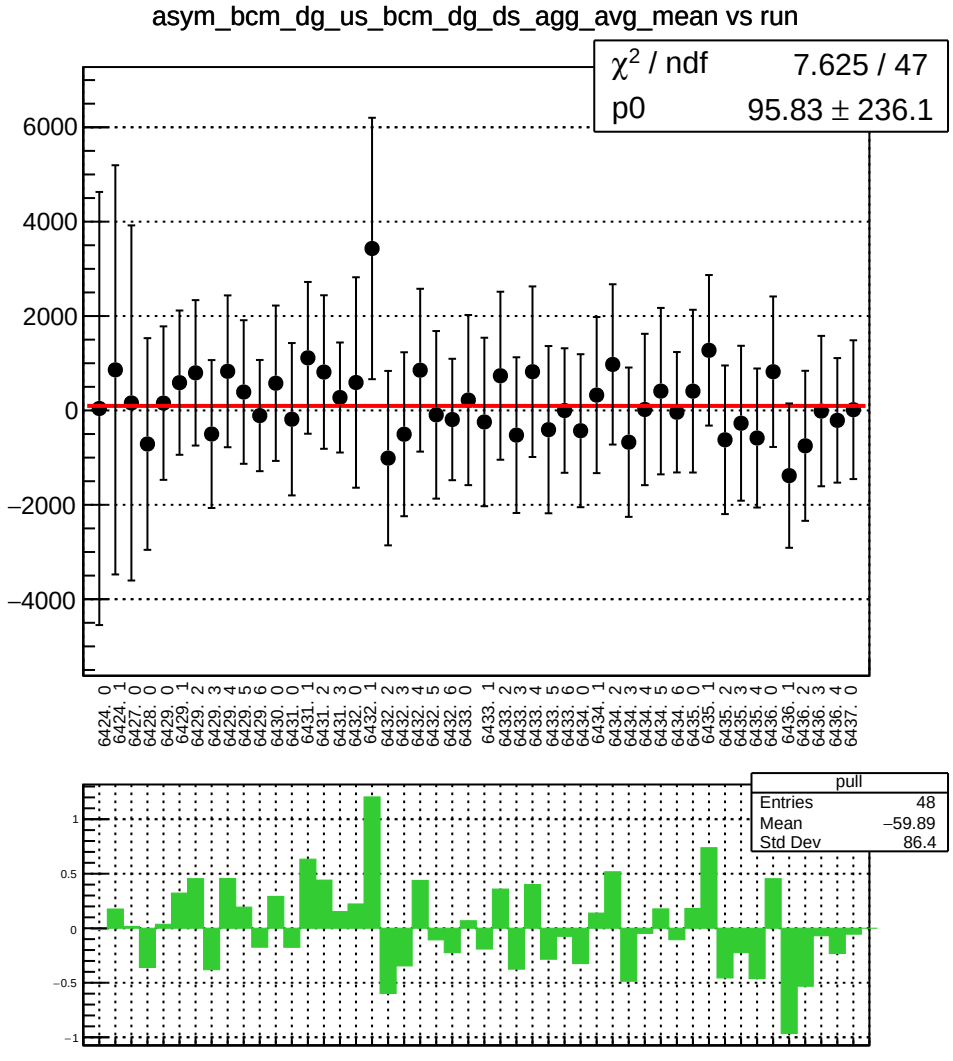

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.312 / 47
p0 107.3 ± 232.6
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −51.78
Std Dev 77.84
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.017
Std Dev 0.4158
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

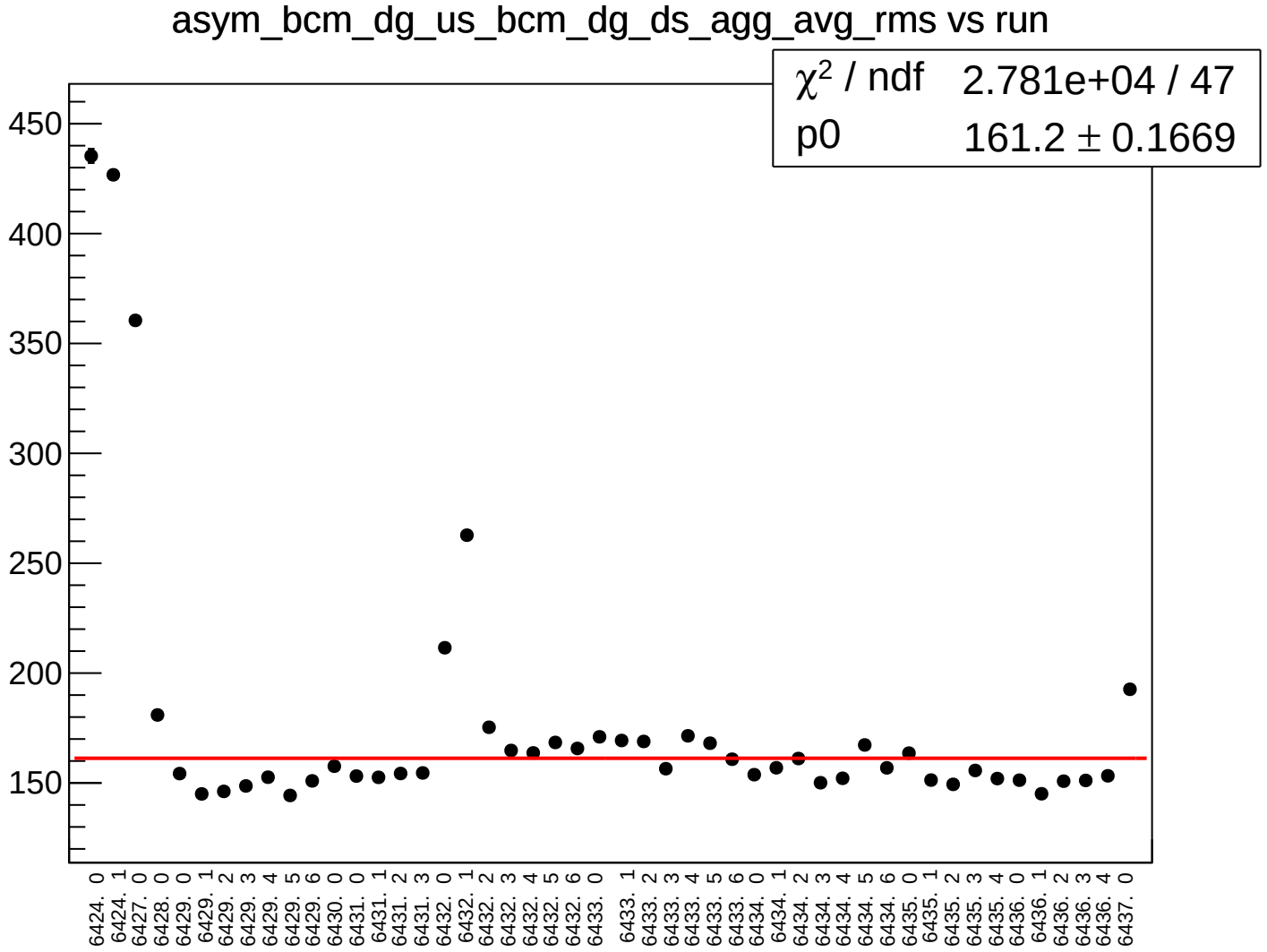

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.812e+04 / 47
p0 158.8 ± 0.1644
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

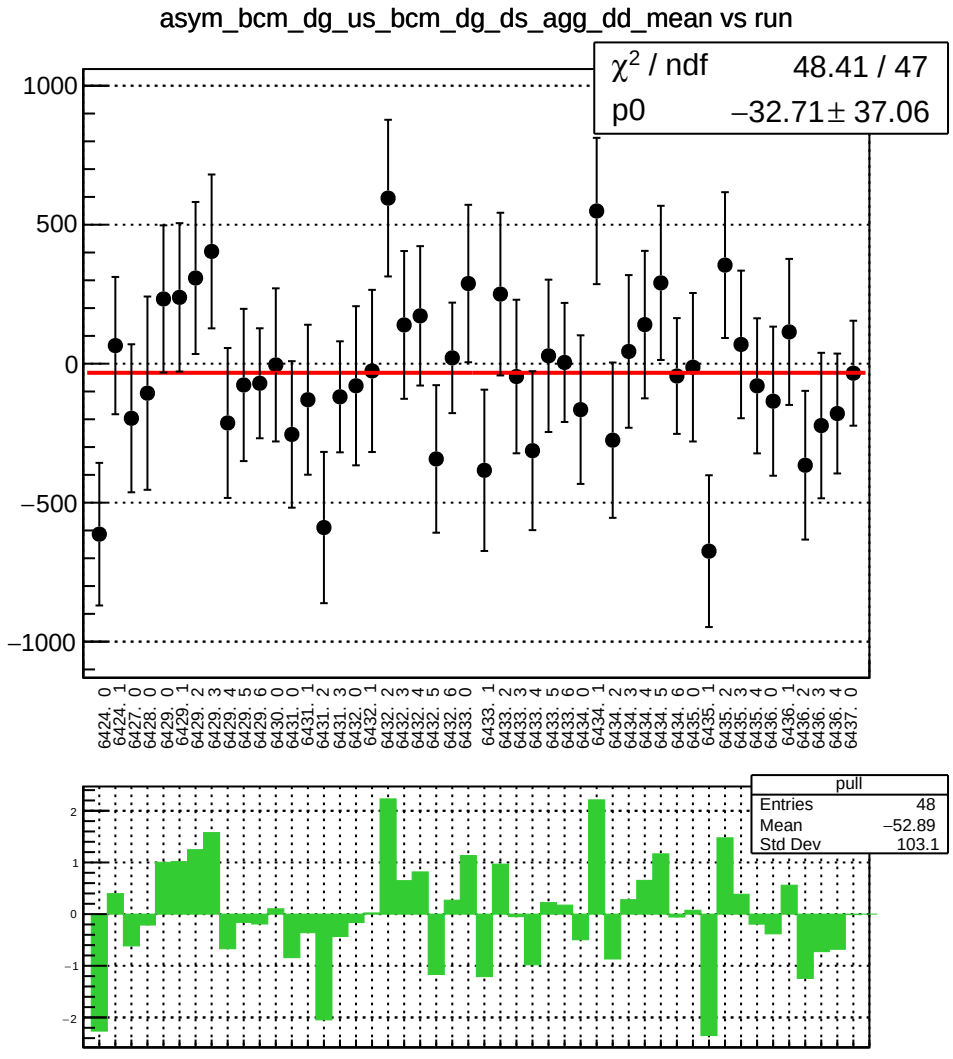

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 58.53 / 47
p0 6.842 ± 24.92
pull
Entries 48
Mean 59.93
Std Dev 28.68

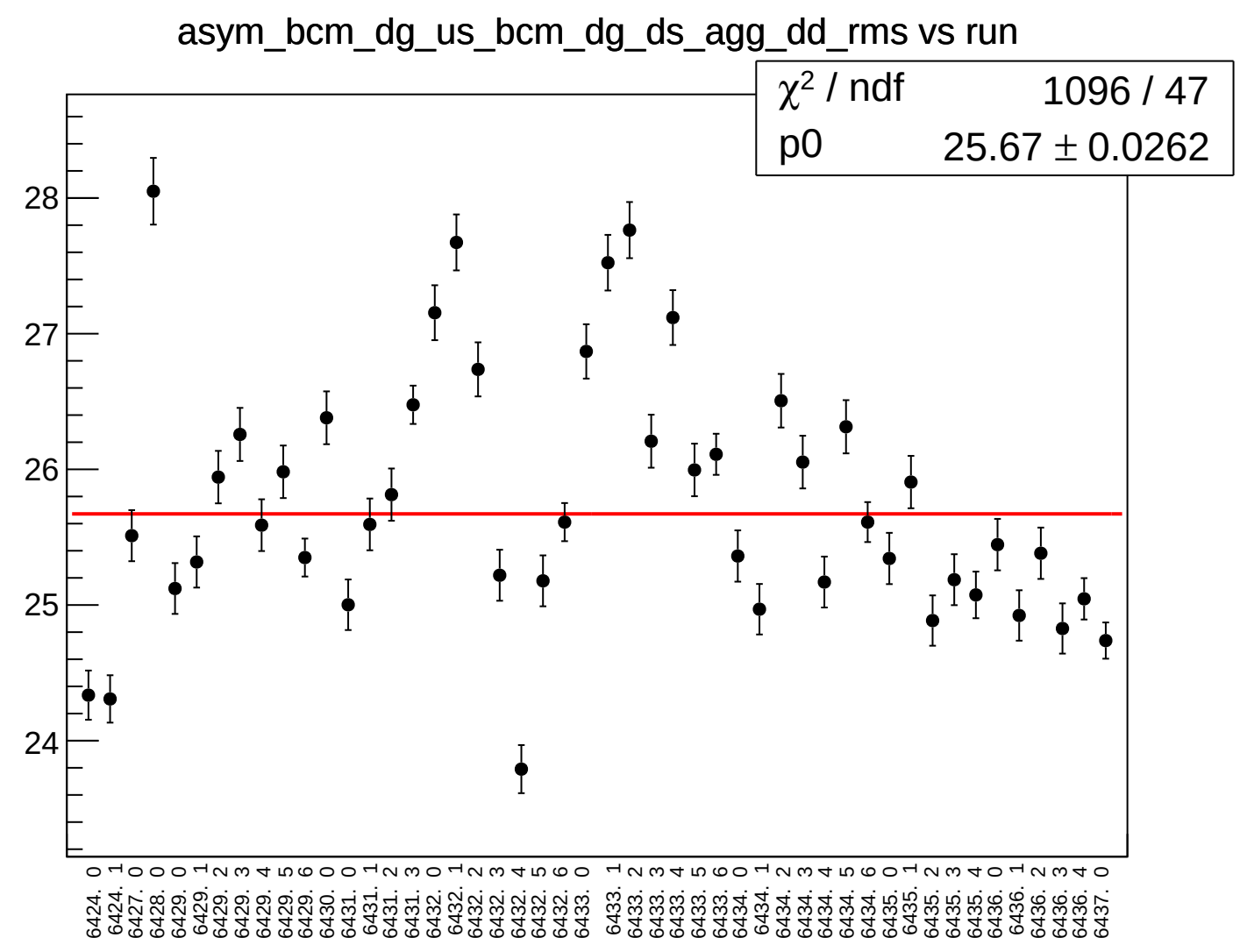

pull1D
Entries 48
Mean 0.01584
Std Dev 1.104


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1614 / 47
p0 17.26 ± 0.01762
19
18.5
18
17.5
17
16.5
16
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.625 / 47
p0 95.83 ± 236.1
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −59.89
Std Dev 86.4
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.01708
Std Dev 0.3982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.781e+04 / 47
p0 161.2 ± 0.1669
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.41 / 47
p0 −32.71± 37.06
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −52.89
Std Dev 103.1
2
1
0
−1
−2
pull1D
Entries 48
Mean 0.005774
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1096 / 47
p0 25.67 ± 0.0262
28
27
26
25
24
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
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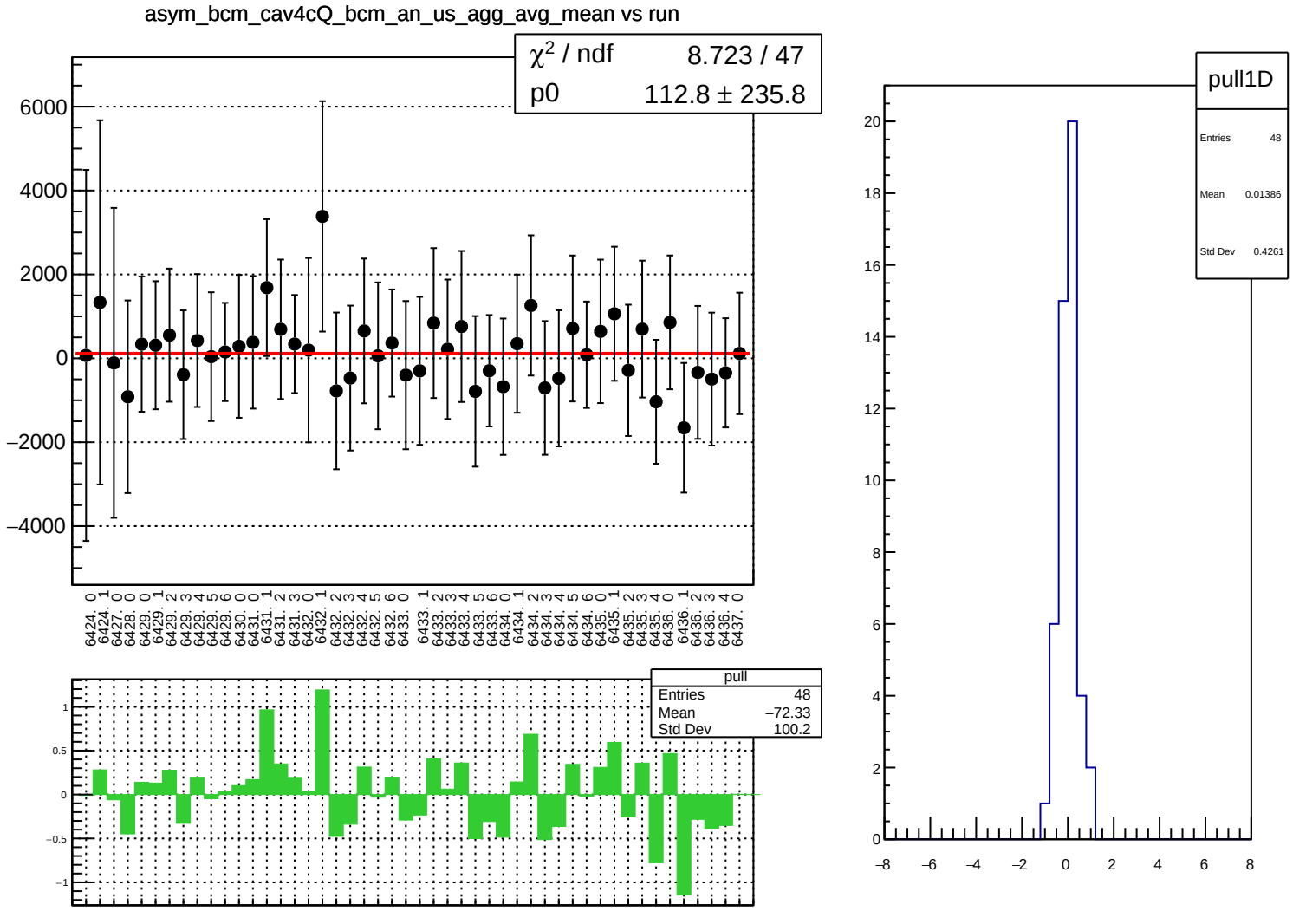
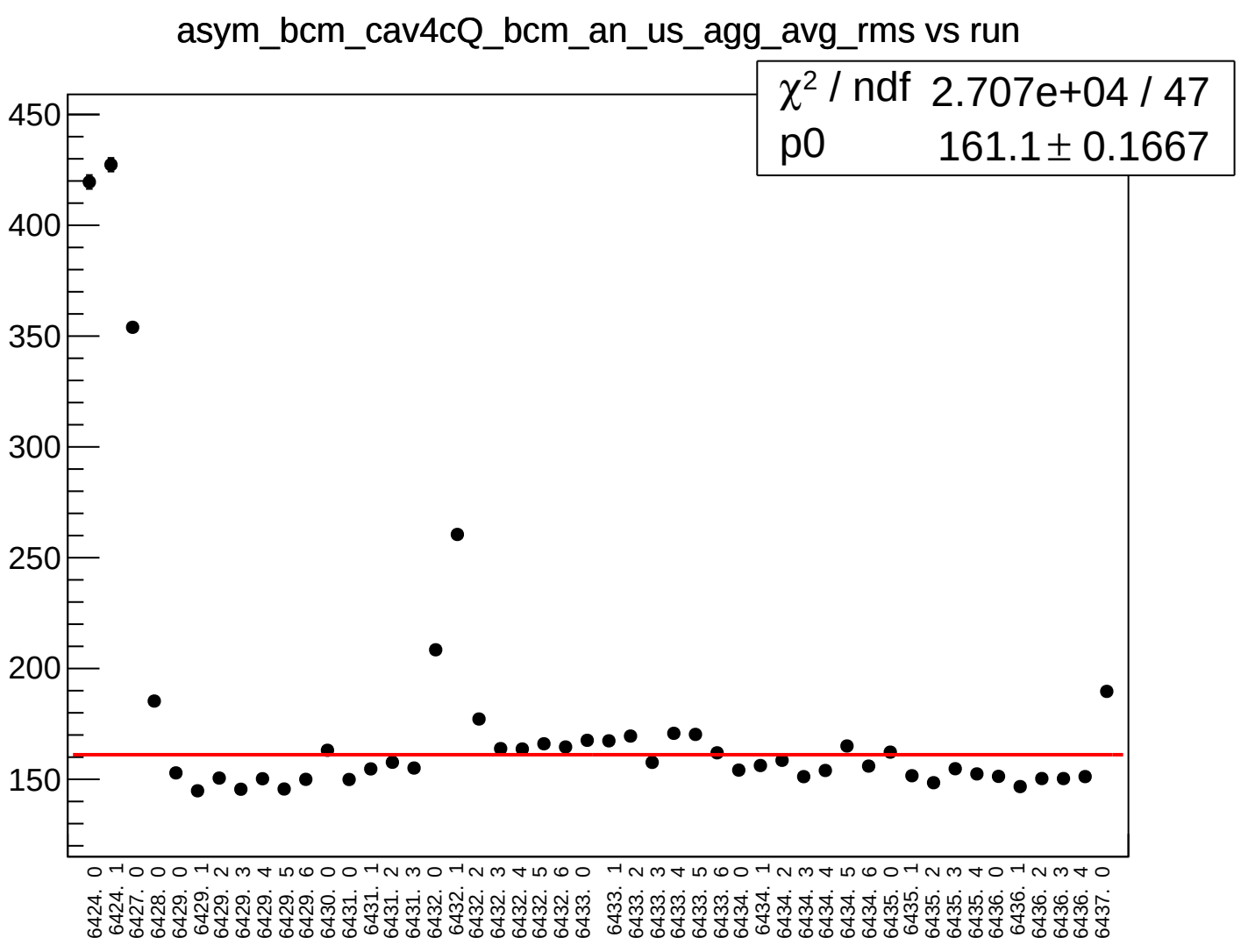
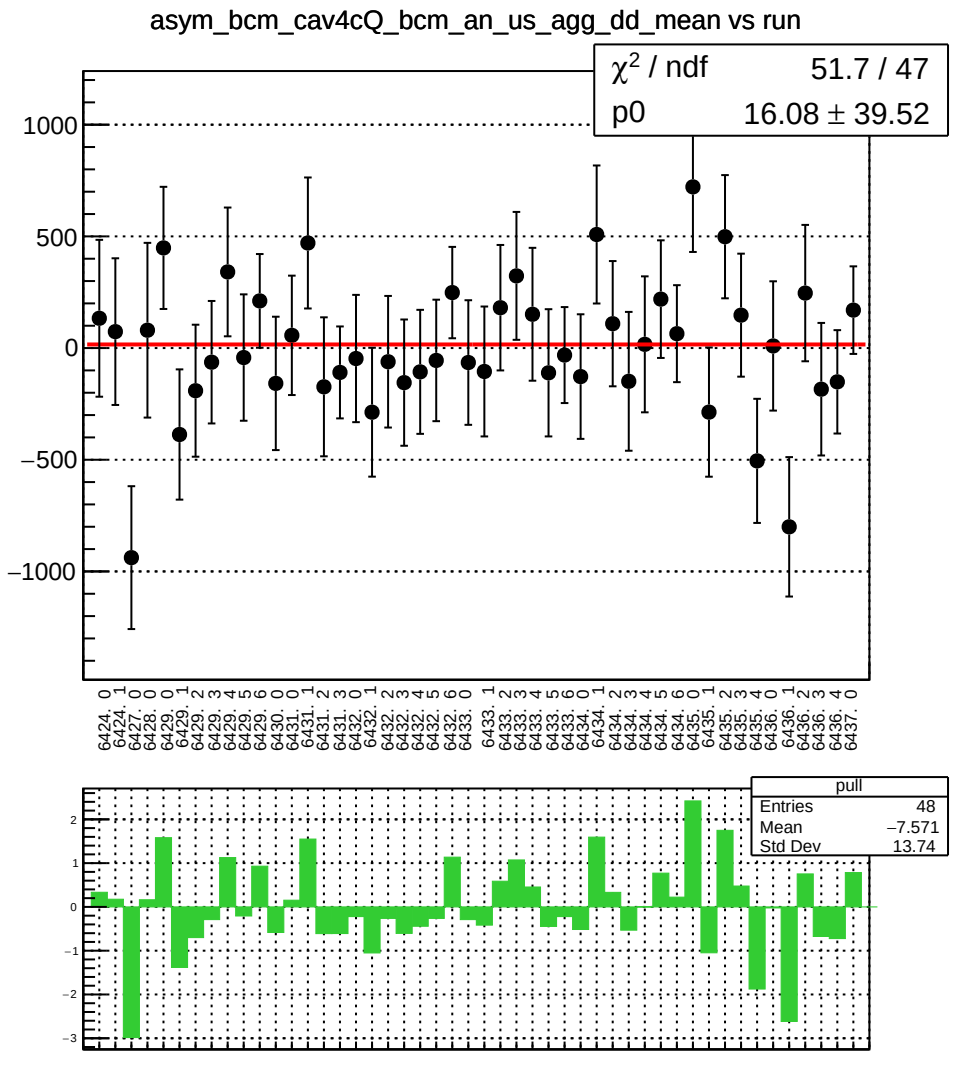
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.723 / 47
p0 112.8 ± 235.8
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −72.33
Std Dev 100.2
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.01386
Std Dev 0.4261
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.707e+04 / 47
p0 161.1 ± 0.1667
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 51.7 / 47
p0 16.08 ± 39.52
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
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6436. 1
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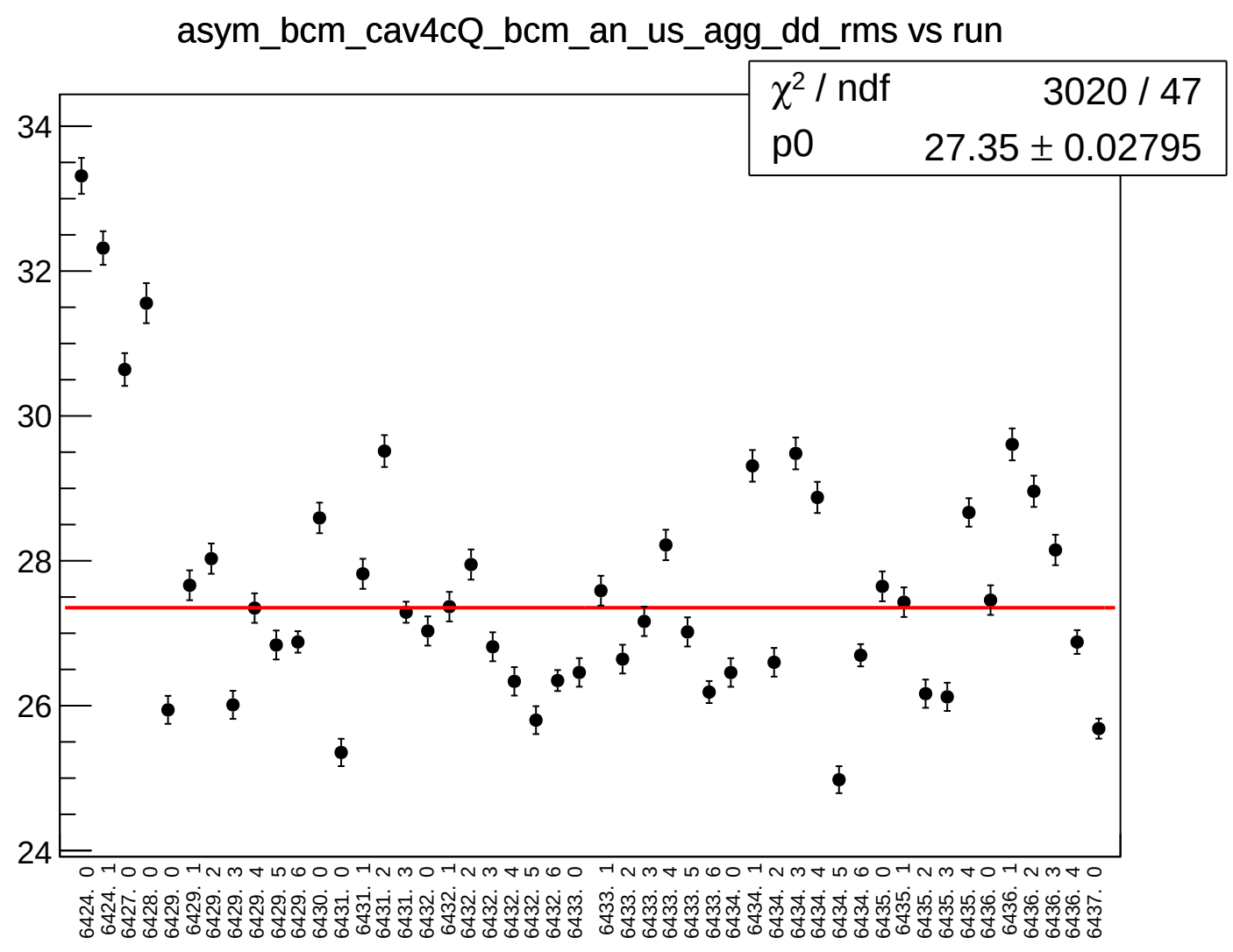
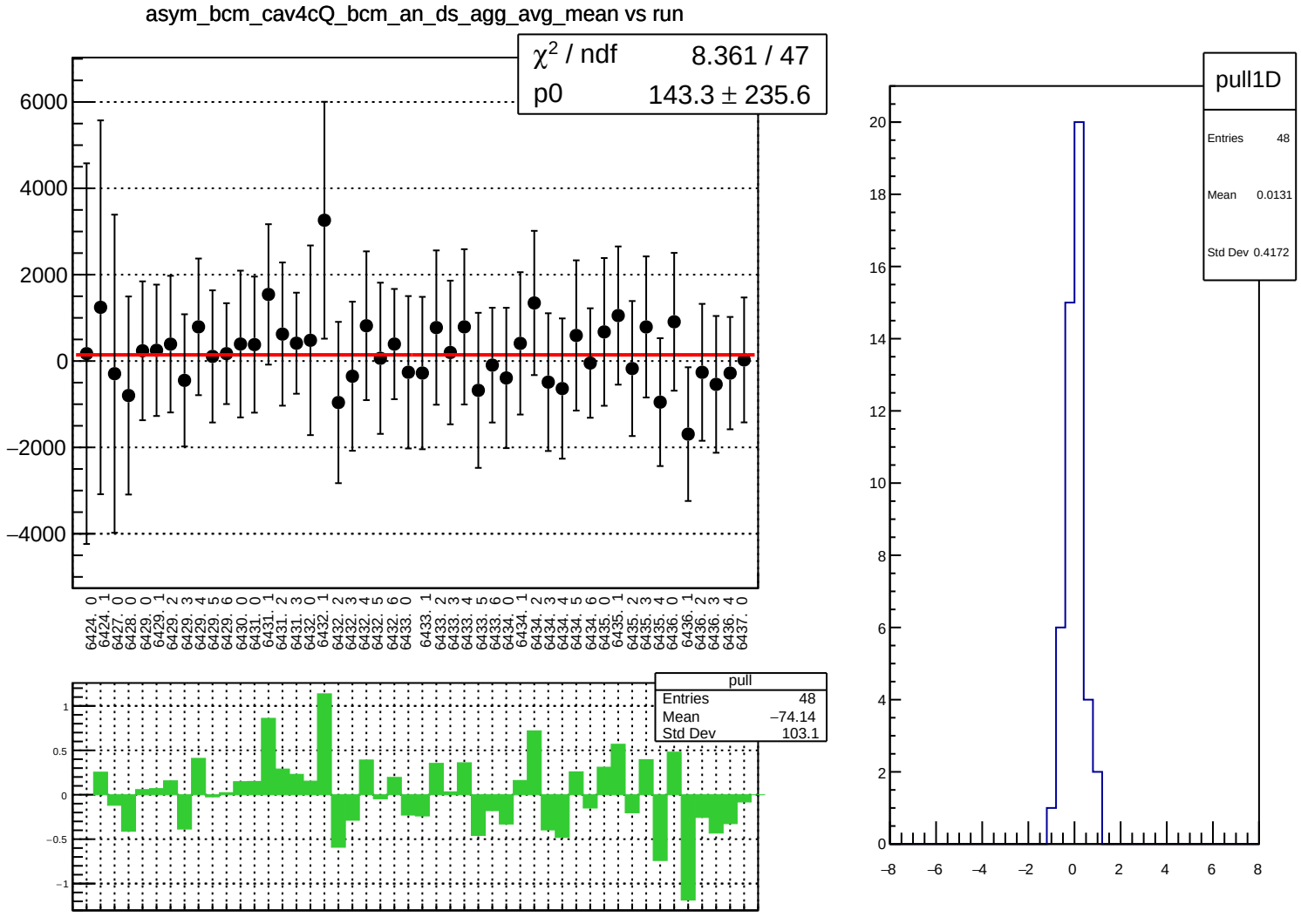
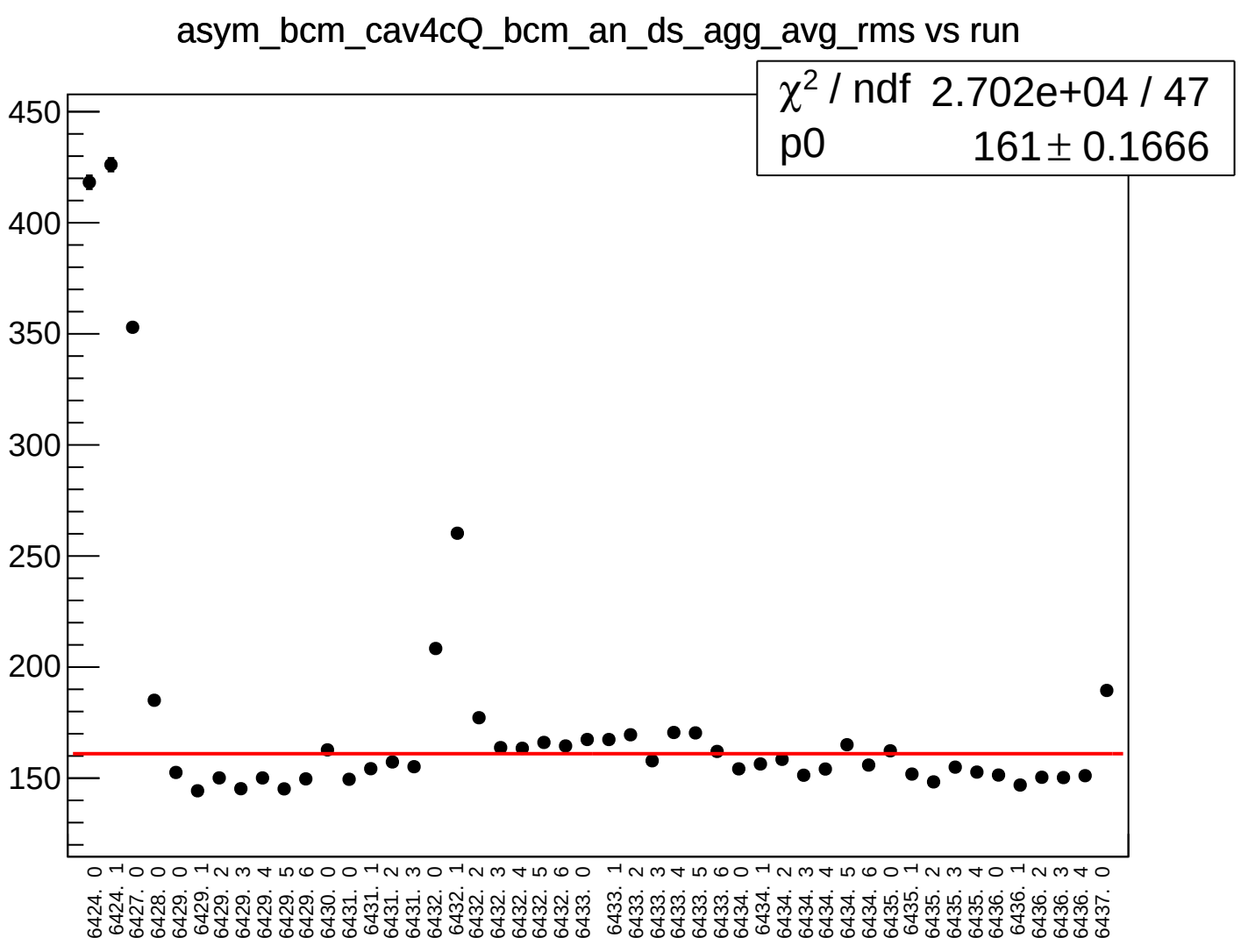
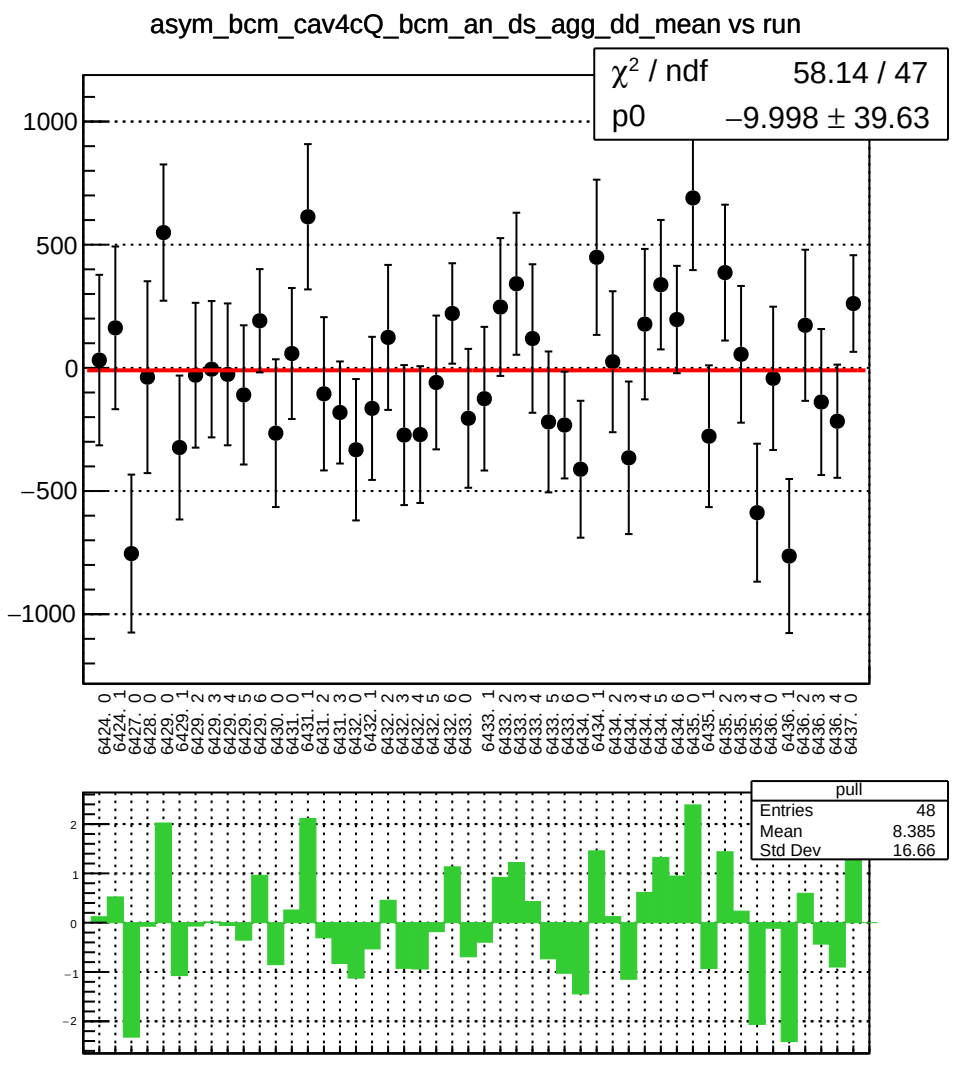
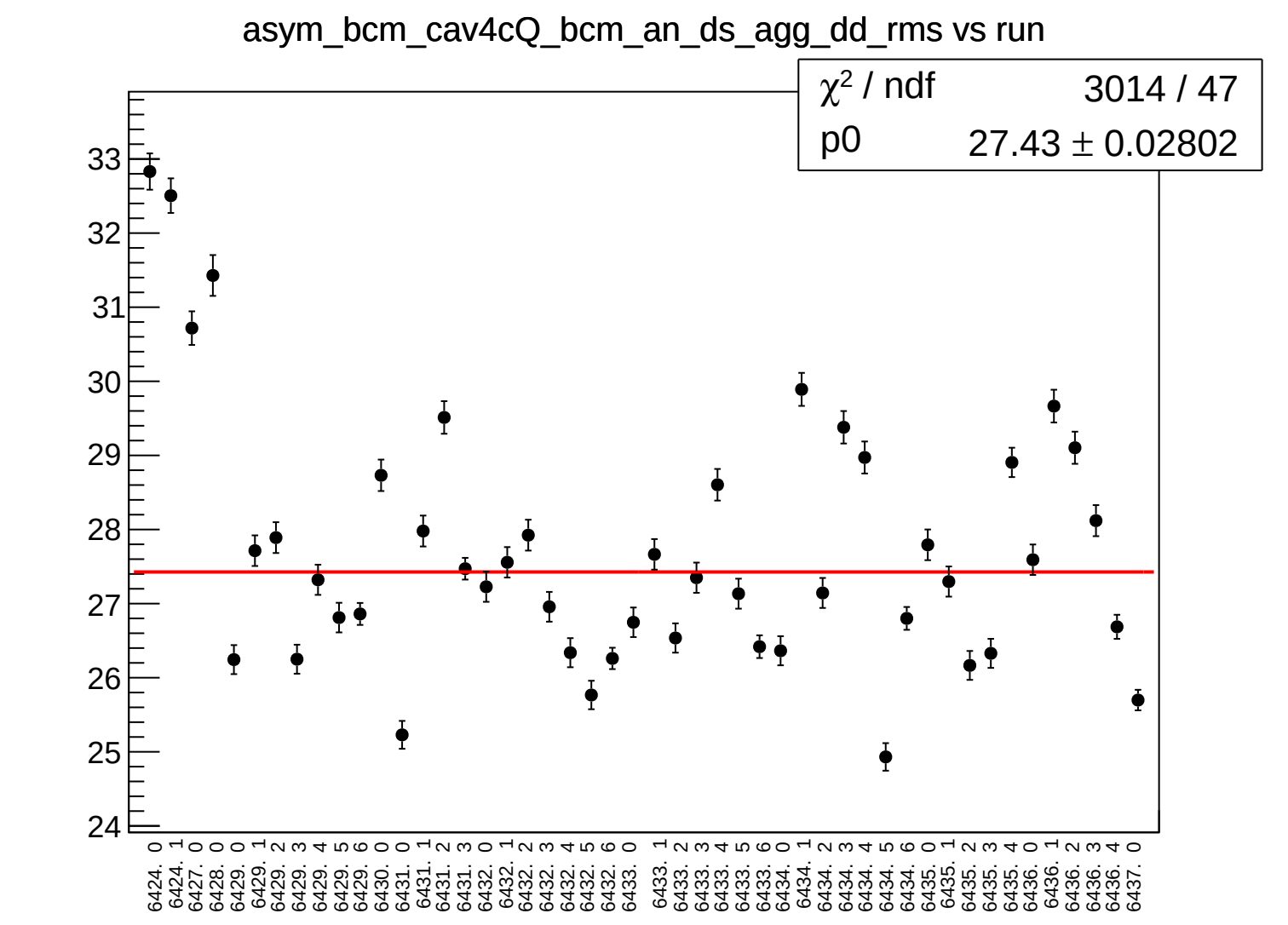
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −7.571
Std Dev 13.74
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.02534
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

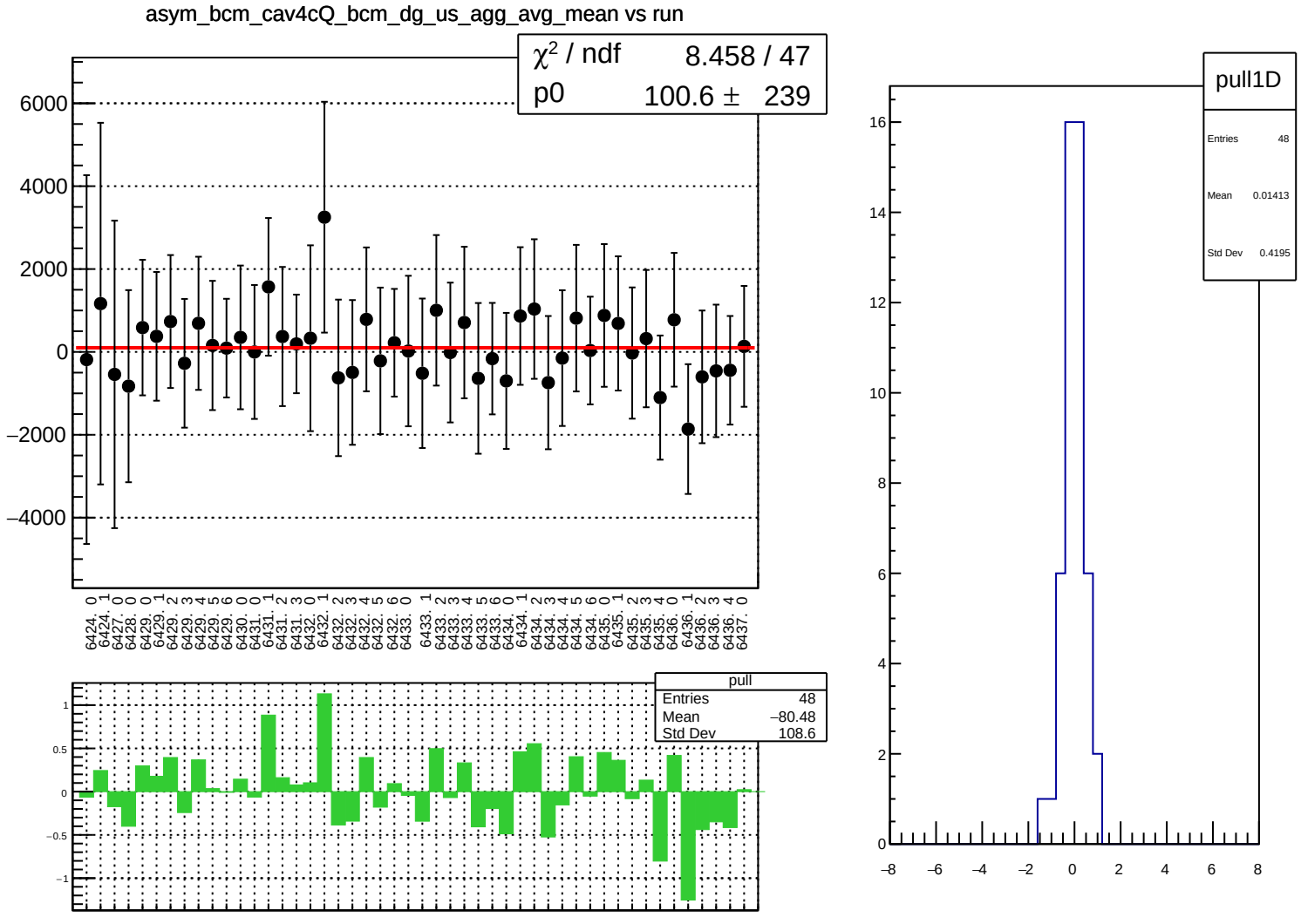

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3020 / 47
p0 27.35 ± 0.02795
34
32
30
28
26
24
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

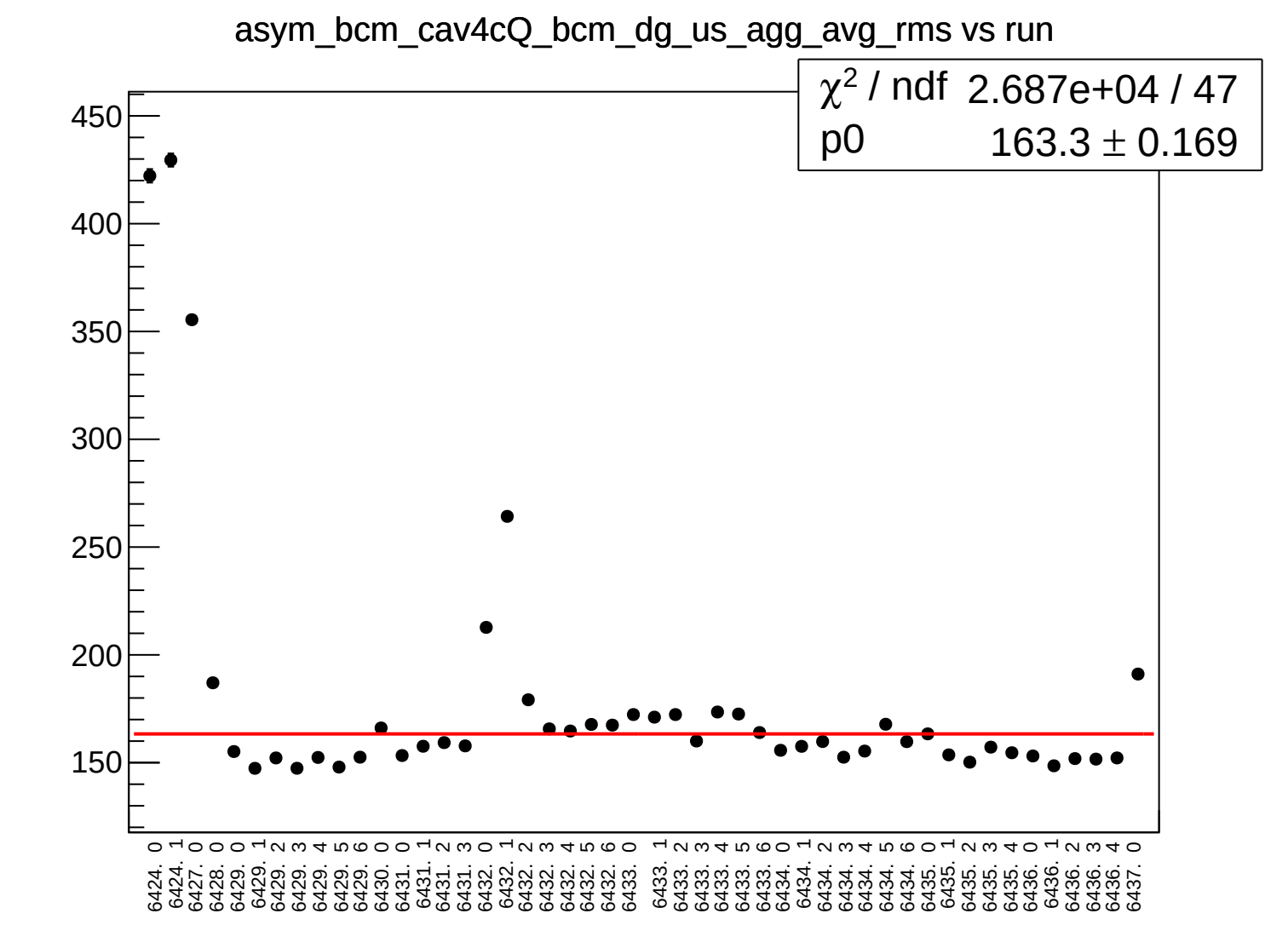

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.361 / 47
p0 143.3 ± 235.6
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −74.14
Std Dev 103.1
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.0131
Std Dev 0.4172
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

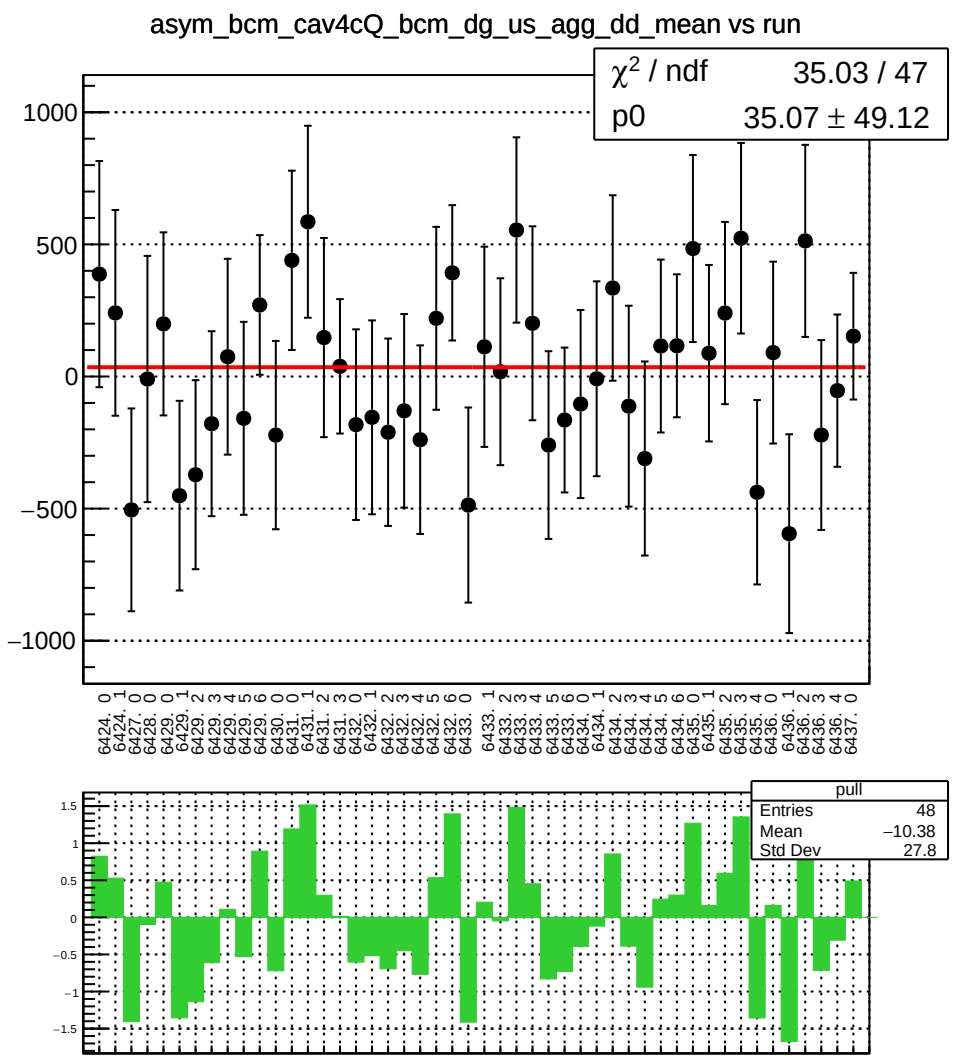

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.702e+04 / 47
p0 161 ± 0.1666
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

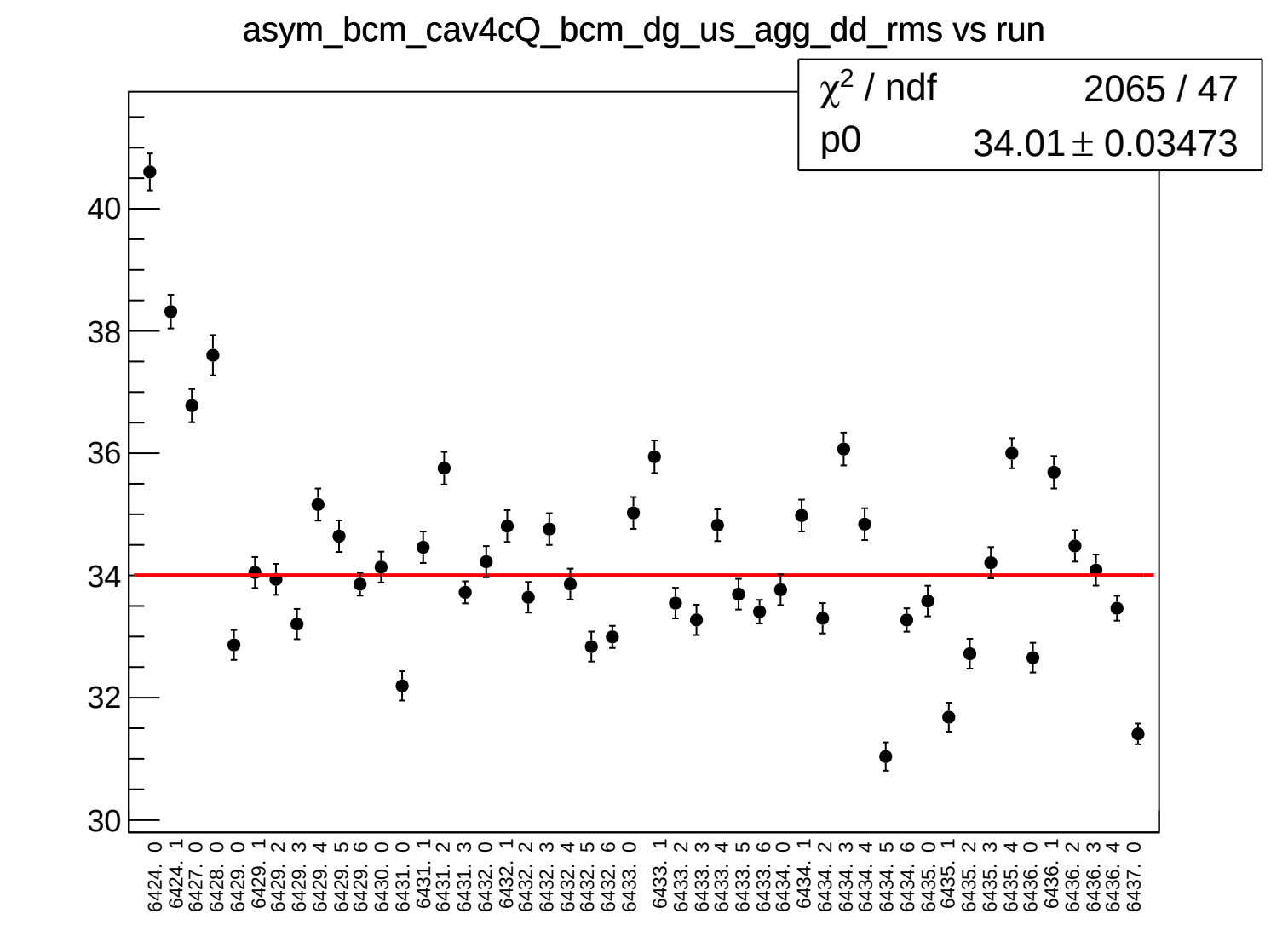

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.14 / 47
p0 −9.998 ± 39.63
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 8.385
Std Dev 16.66
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.02584
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

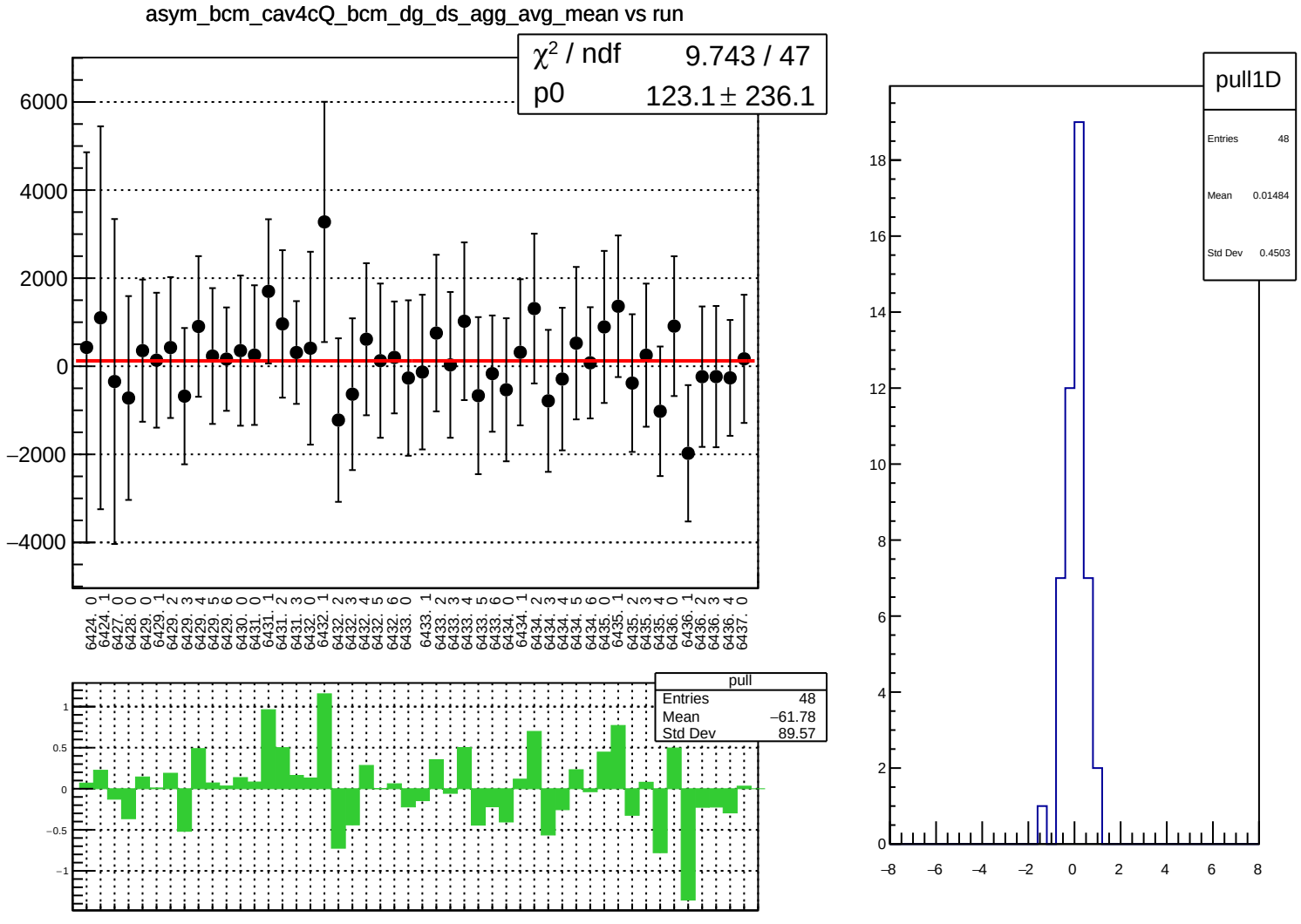

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3014 / 47
p0 27.43 ± 0.02802
33
32
31
30
29
28
27
26
25
24
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

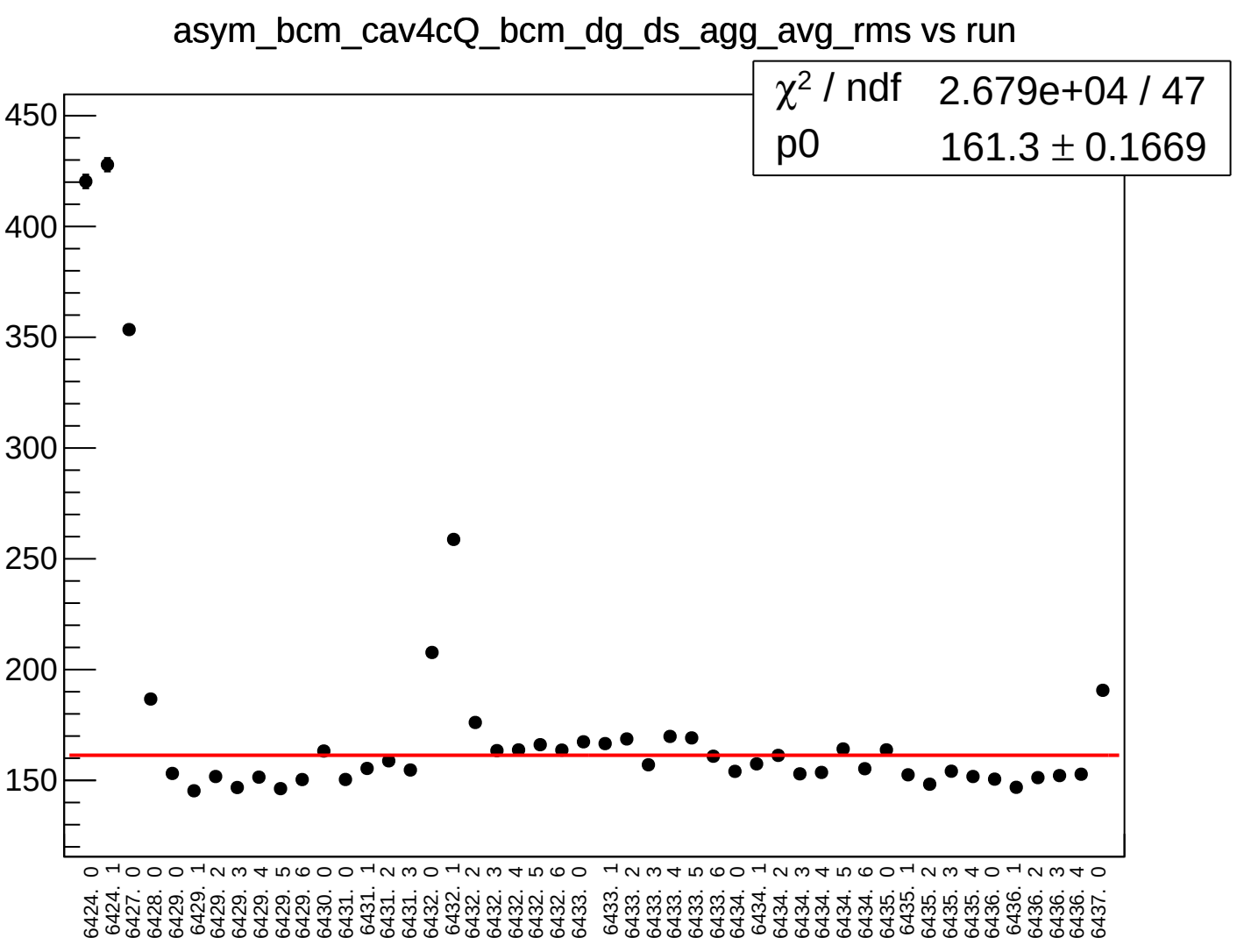

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 8.458 / 47
p0 100.6 ± 239
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −80.48
Std Dev 108.6
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.01413
Std Dev 0.4195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

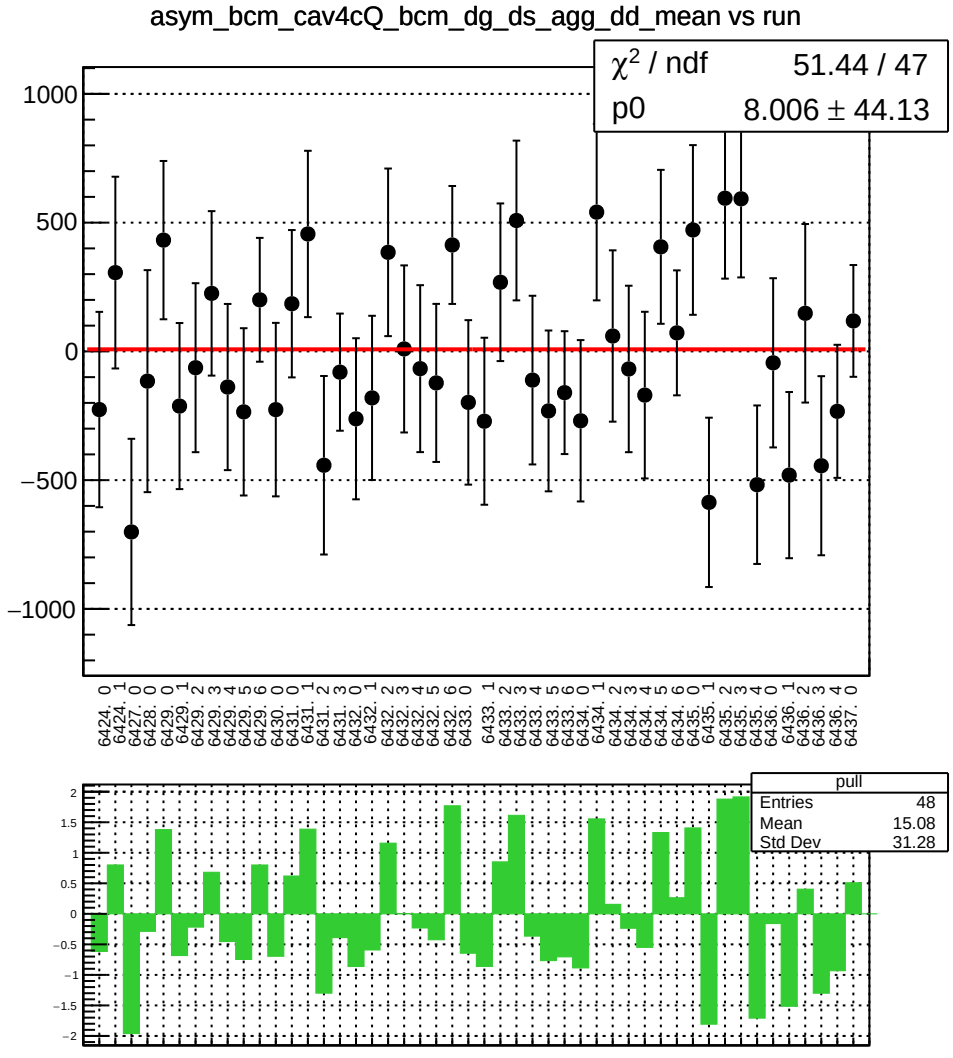

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.687e+04 / 47
p0 163.3 ± 0.169
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

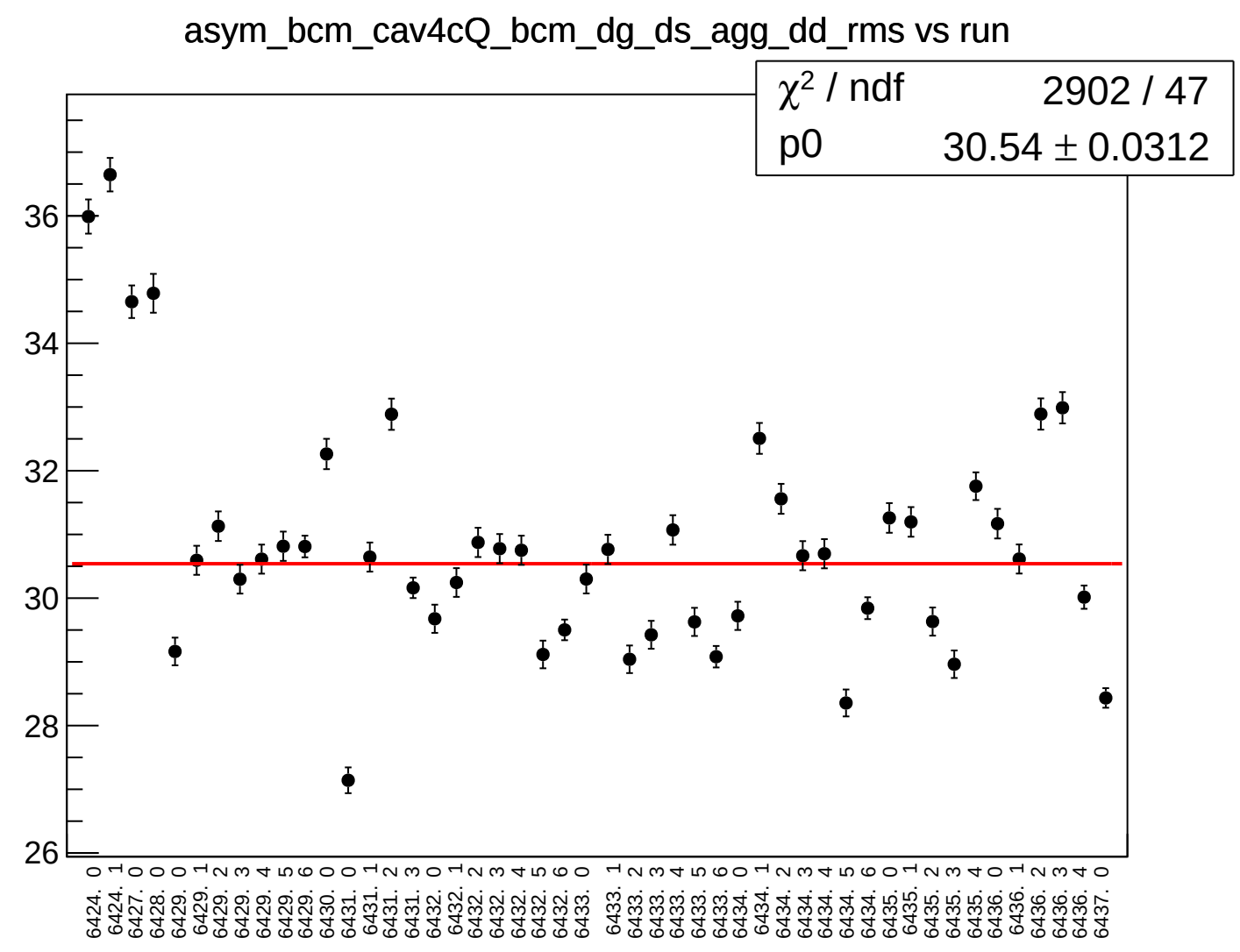

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 35.03 / 47
p0 35.07 ± 49.12
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −10.38
Std Dev 27.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean −0.02367
Std Dev 0.8539
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

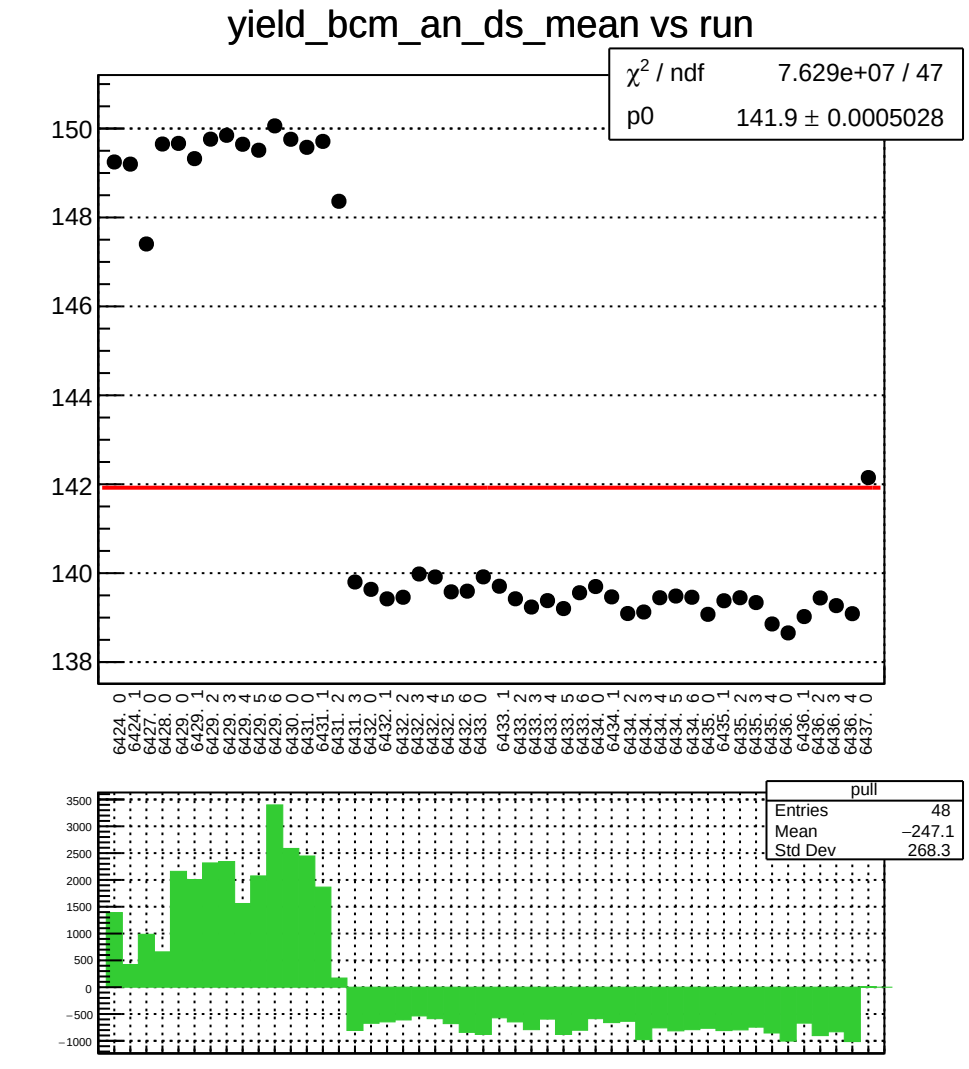

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2065 / 47
p0 34.01 ± 0.03473
40
38
36
34
32
30
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

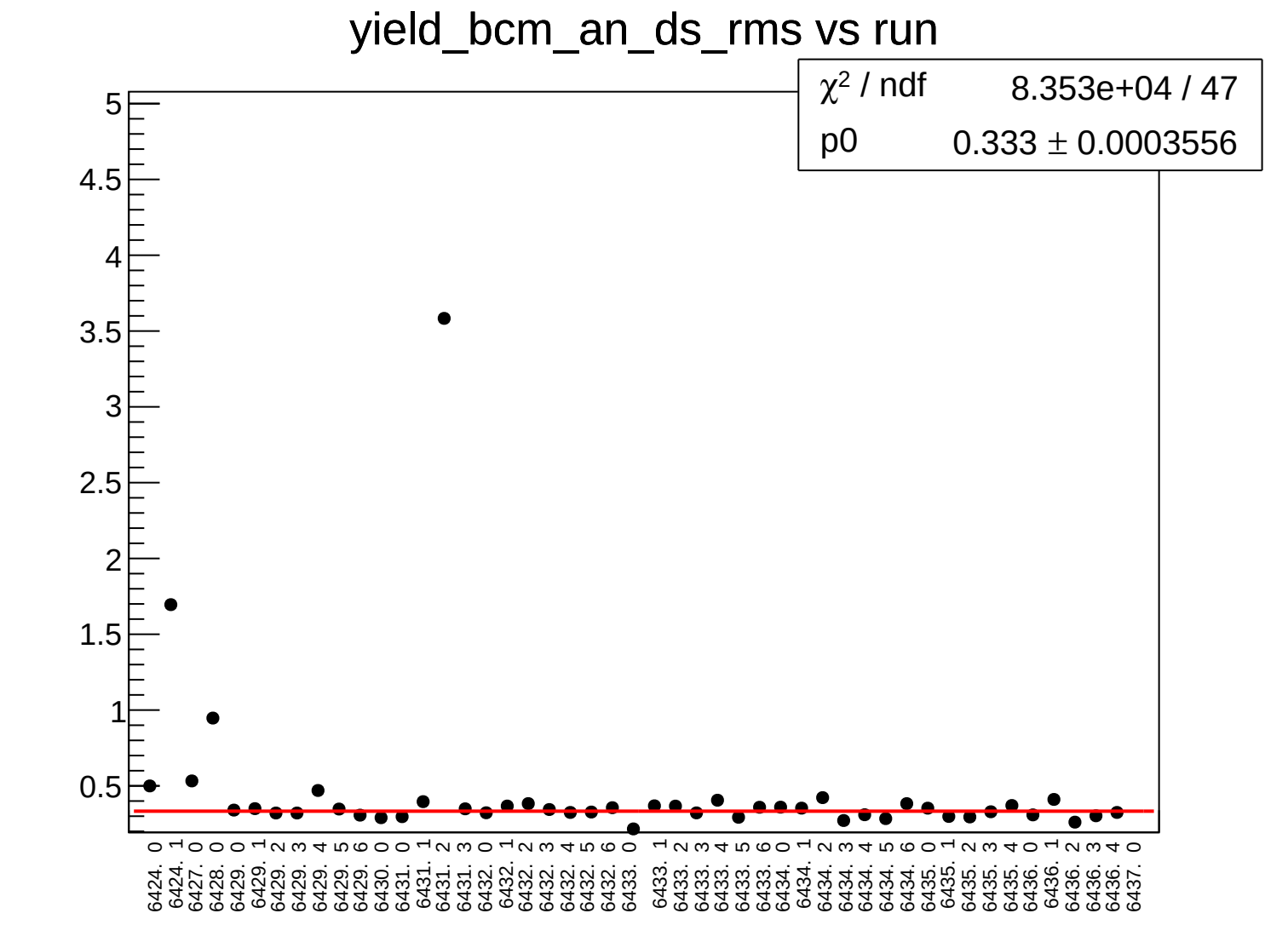

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.743 / 47
p0 123.1 ± 236.1
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −61.78
Std Dev 89.57
1
0.5
0
−0.5
−1
pull1D
Entries 48
Mean 0.01484
Std Dev 0.4503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

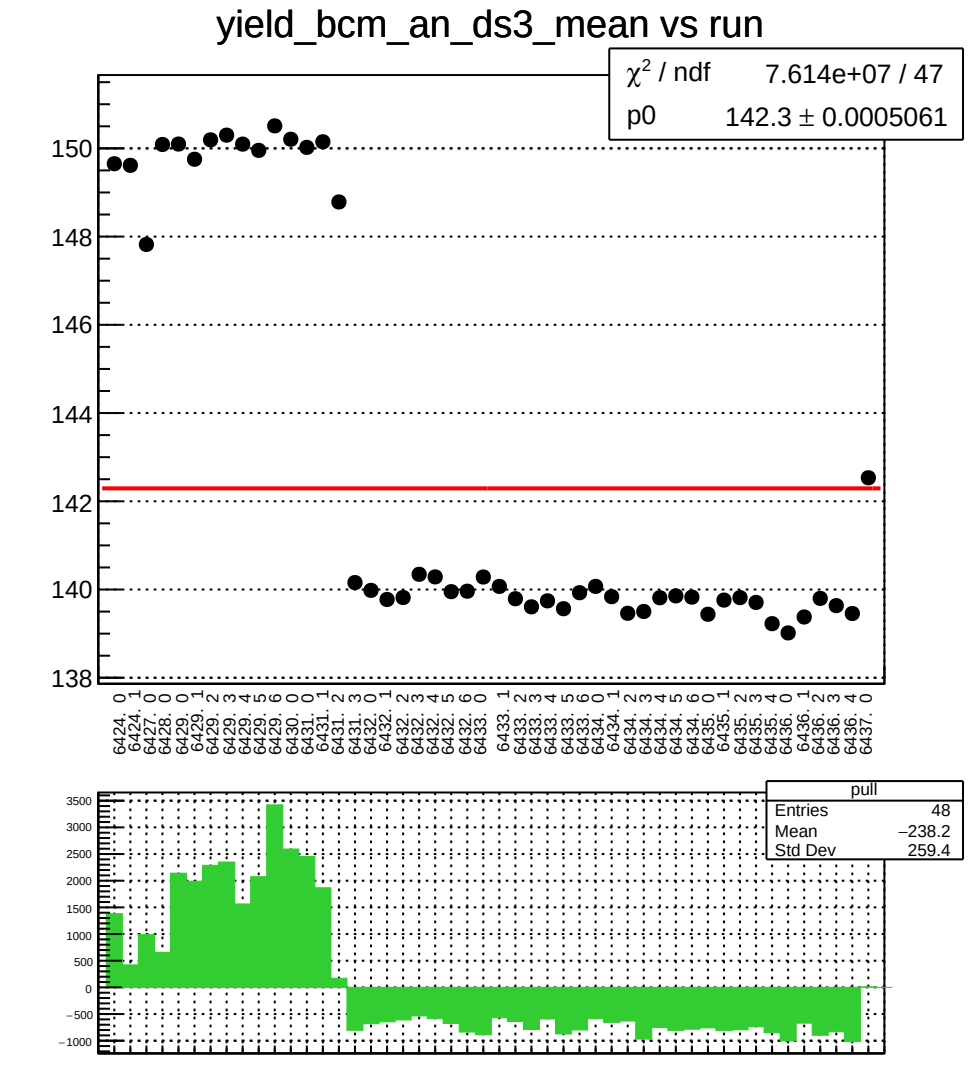

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.679e+04 / 47
p0 161.3 ± 0.1669
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

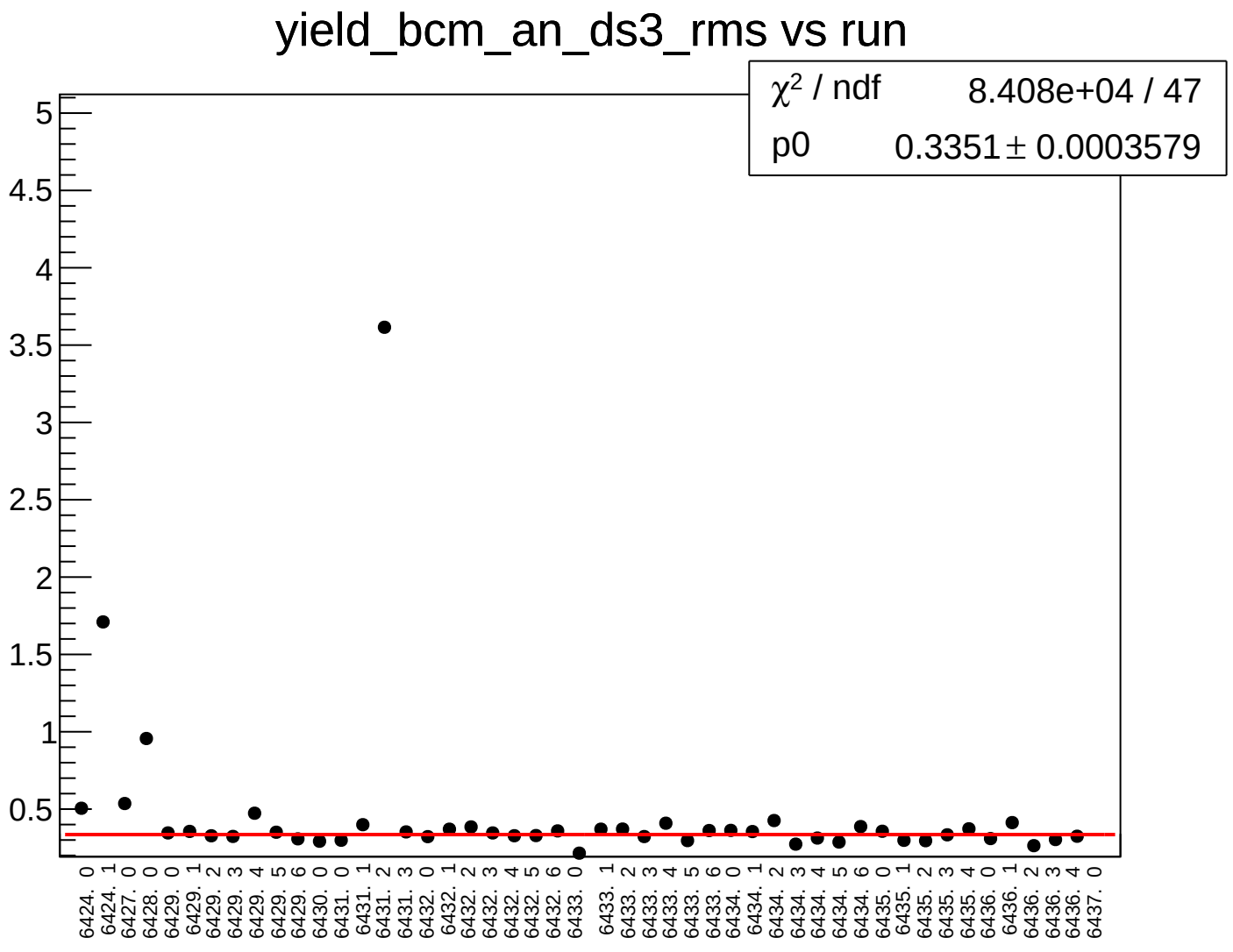

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.44 / 47
p0 8.006 ± 44.13
1000
500
0
−500
−1000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 15.08
Std Dev 31.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean −0.02936
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

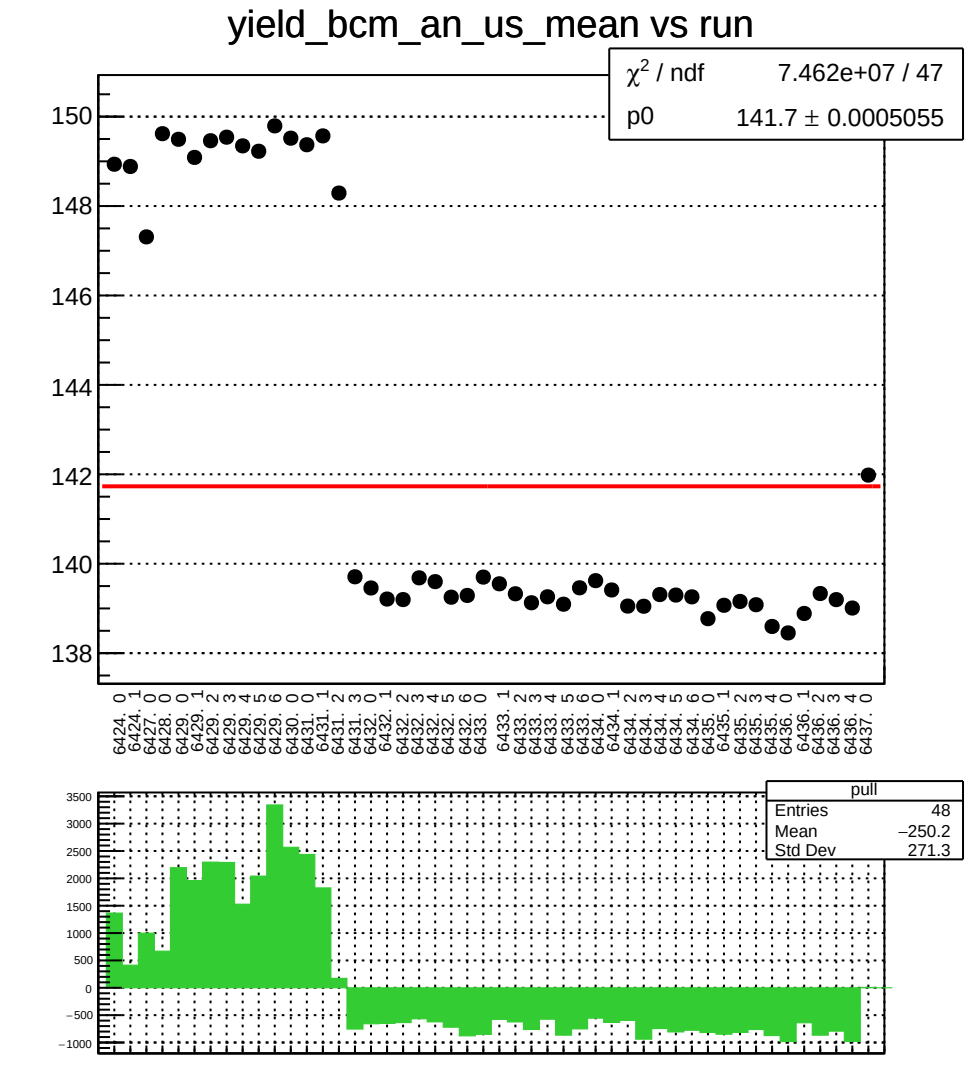

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2902 / 47
p0 30.54 ± 0.0312
36
34
32
30
28
26
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

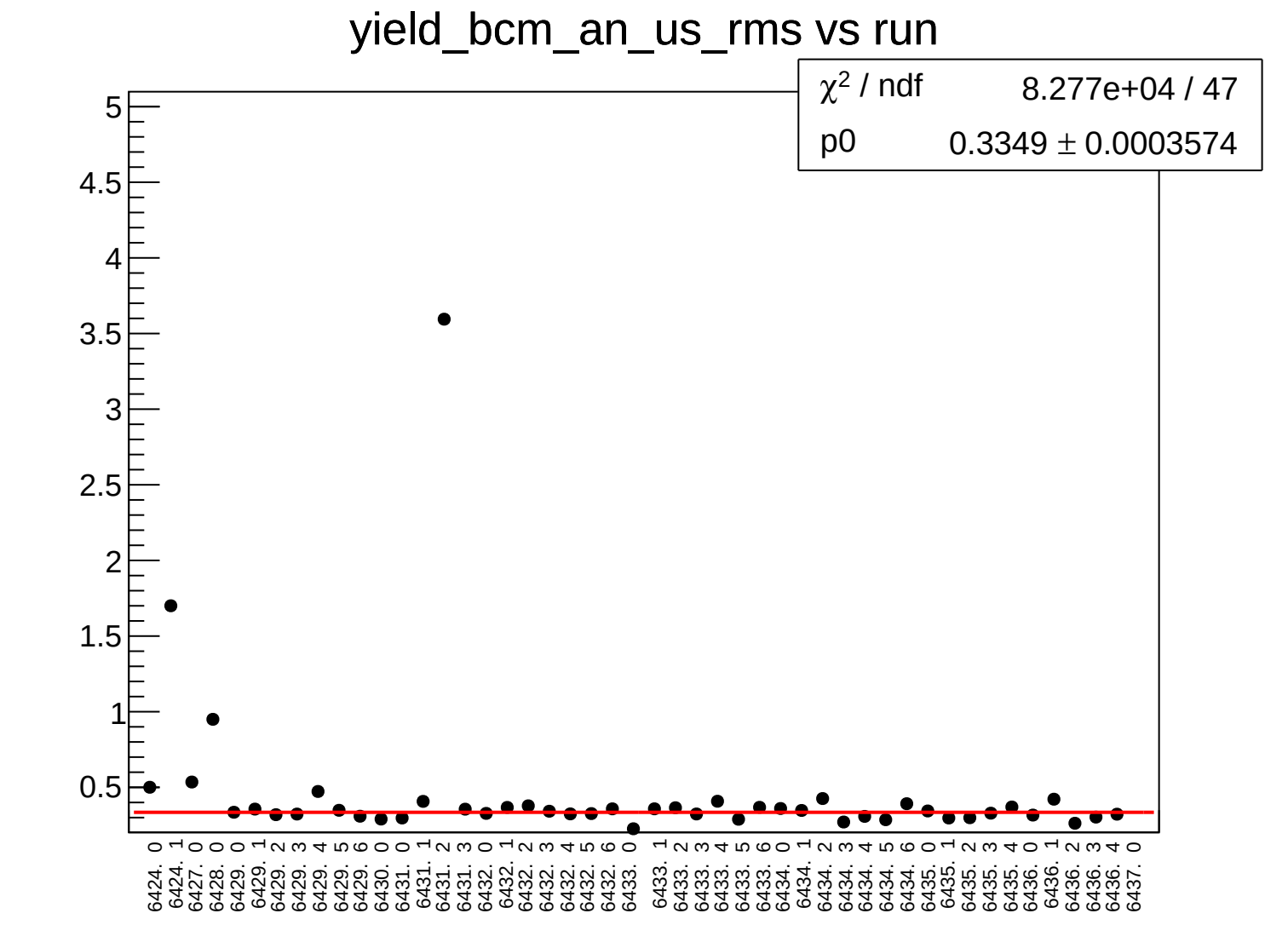

yield_bcm_an_ds_mean vs run
χ² / ndf 7.629e+07 / 47
p0 141.9 ± 0.0005028
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −247.1
Std Dev 268.3
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 6.475
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

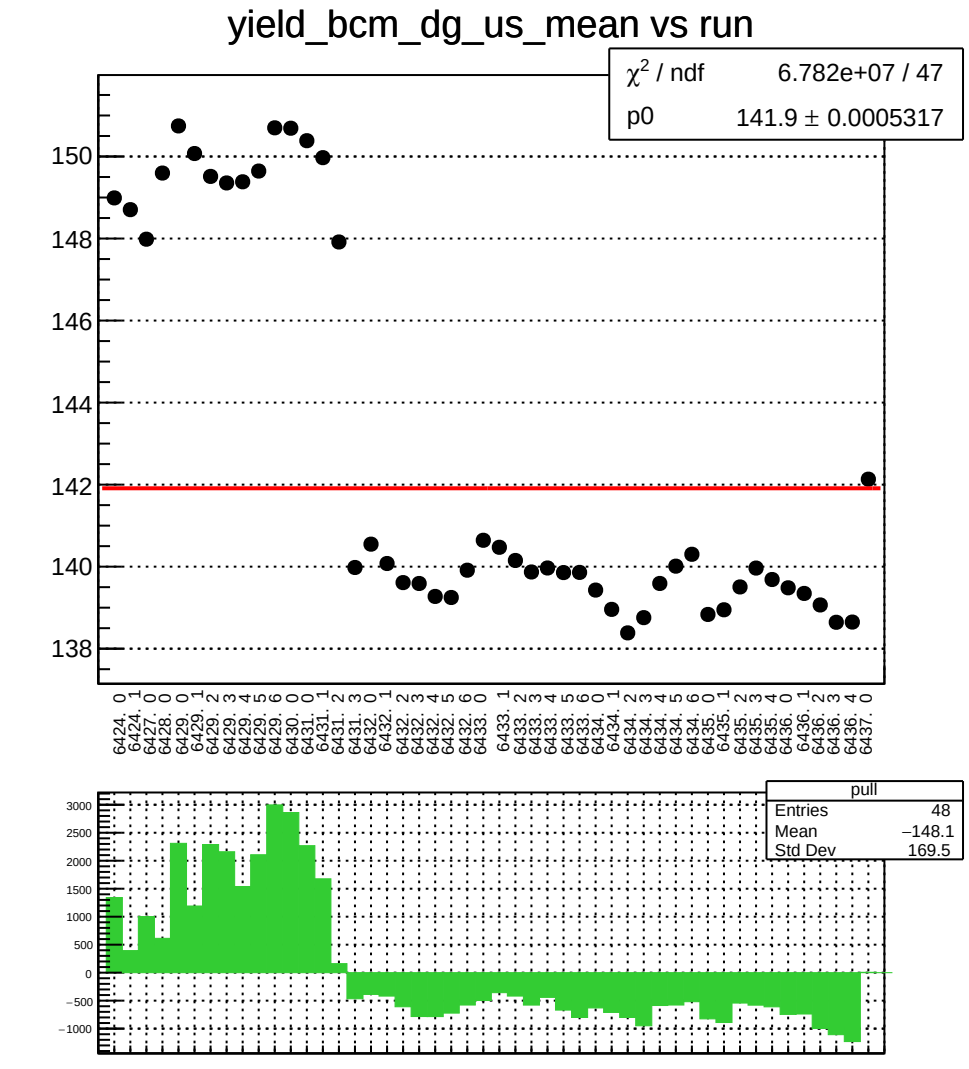

yield_bcm_an_ds_rms vs run
χ² / ndf 8.353e+04 / 47
p0 0.333 ± 0.0003556
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

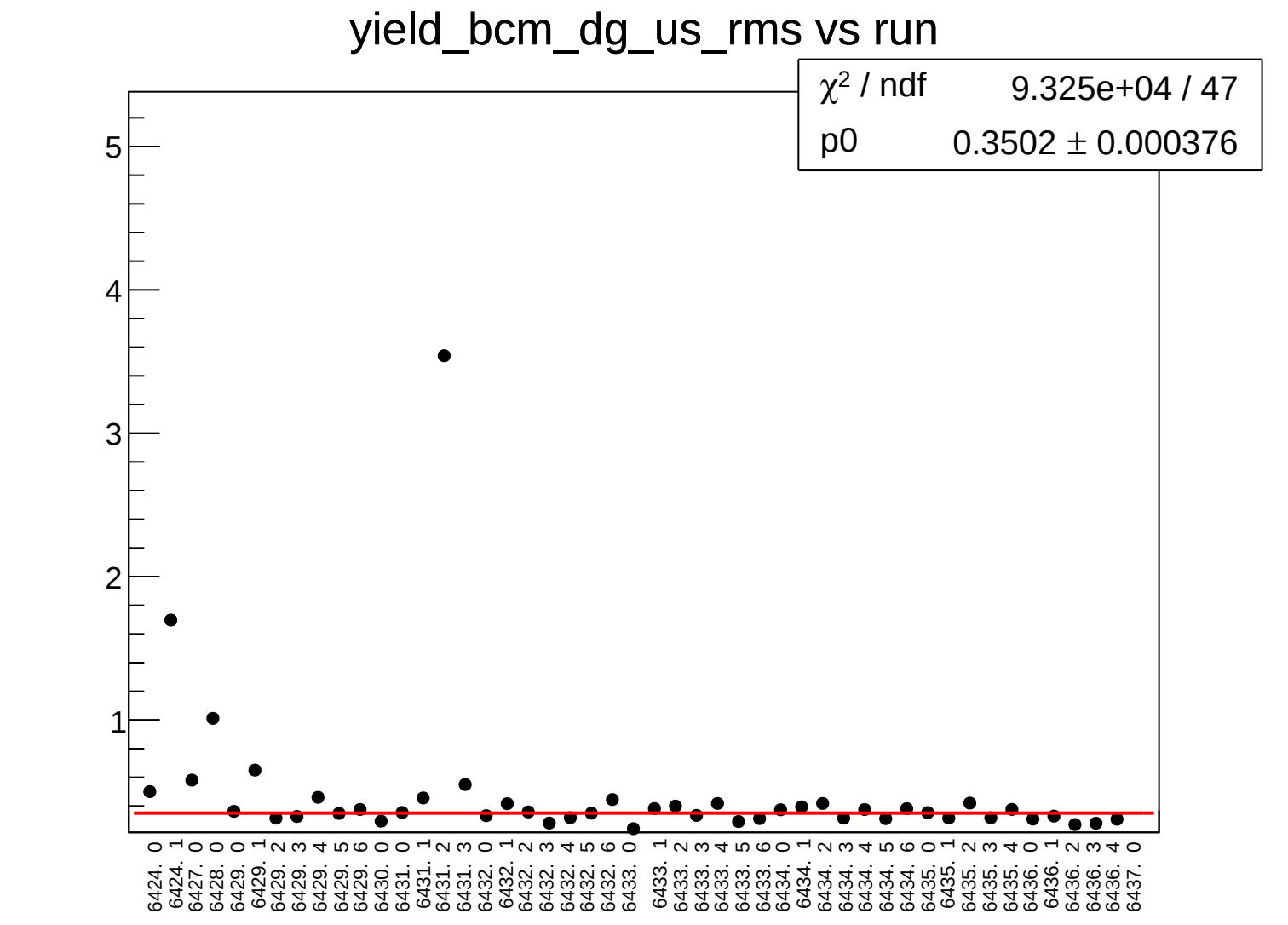

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.614e+07 / 47
p0 142.3 ± 0.0005061
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6436. 0
6437. 0
pull
Entries 48
Mean −238.2
Std Dev 259.4
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 6.77
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

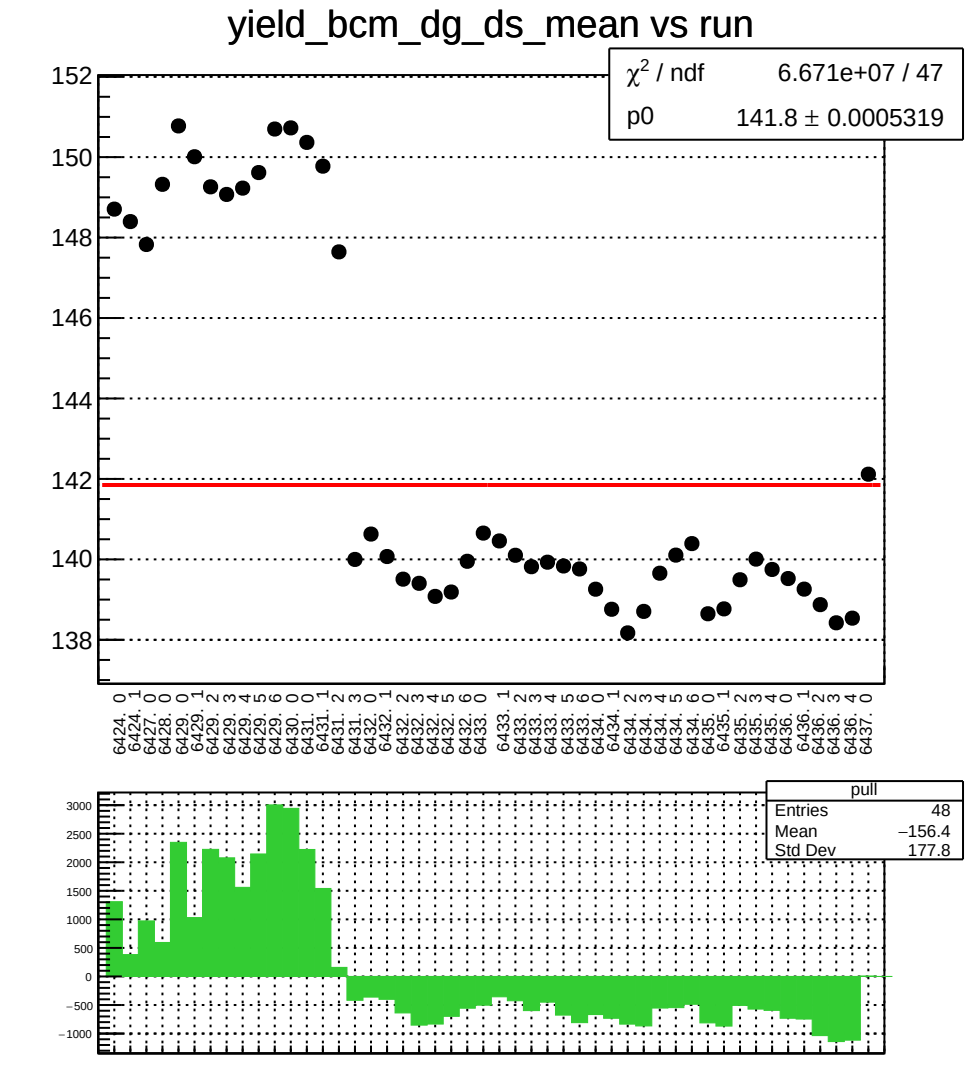

yield_bcm_an_ds3_rms vs run
χ² / ndf 8.408e+04 / 47
p0 0.3351 ± 0.0003579
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

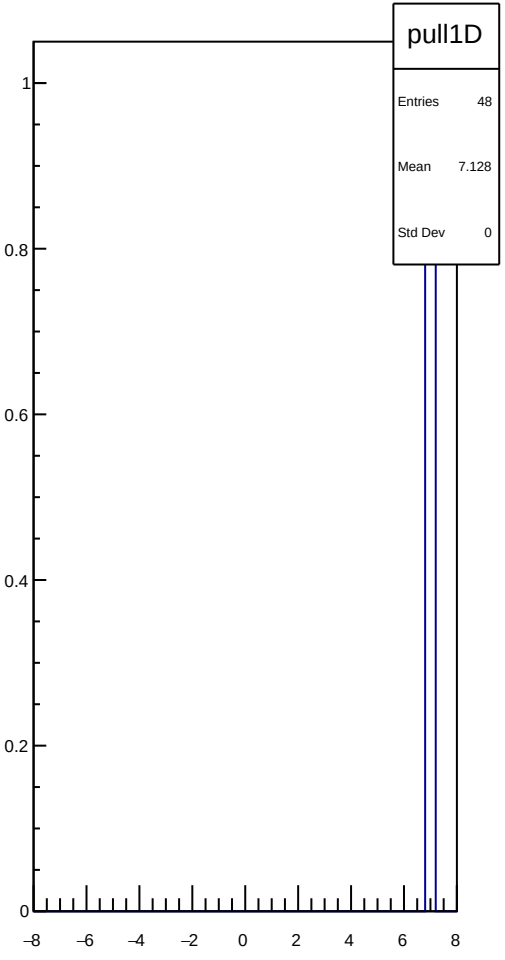

yield_bcm_an_us_mean vs run
χ² / ndf 7.462e+07 / 47
p0 141.7 ± 0.0005055
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −250.2
Std Dev 271.3
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 7.096
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

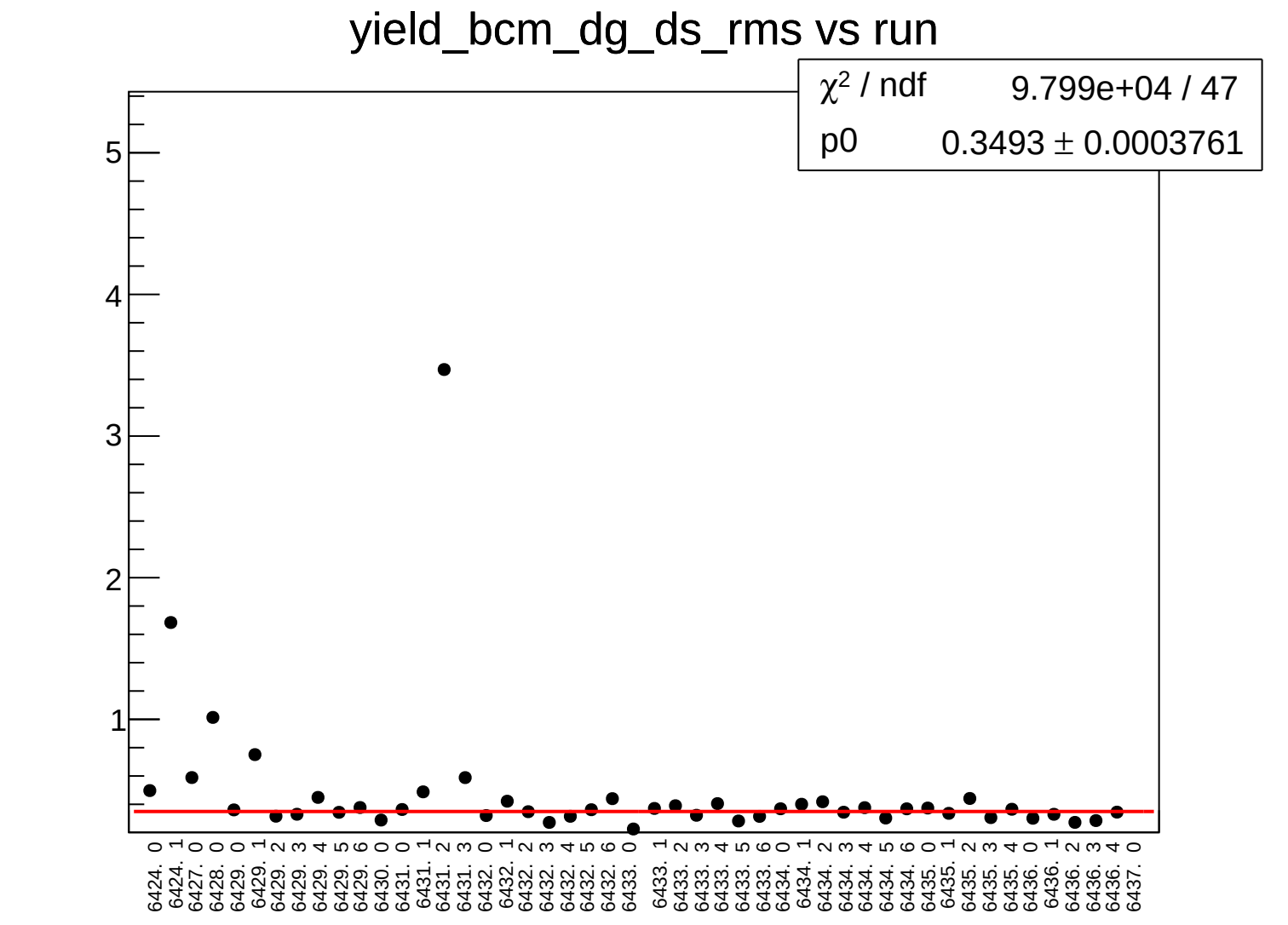

yield_bcm_an_us_rms vs run
χ² / ndf 8.277e+04 / 47
p0 0.3349 ± 0.0003574
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

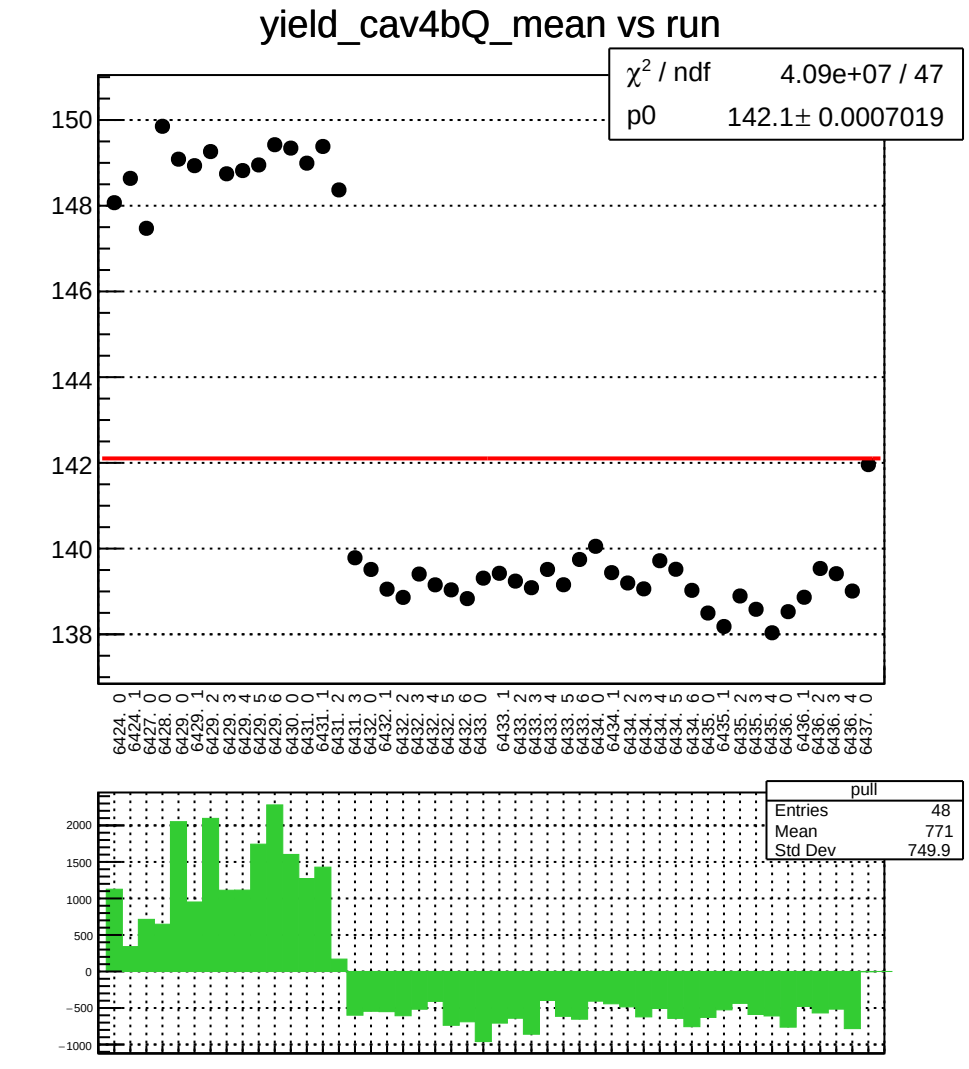

yield_bcm_dg_us_mean vs run
χ² / ndf 6.782e+07 / 47
p0 141.9 ± 0.0005317
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −148.1
Std Dev 169.5
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 5.953
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

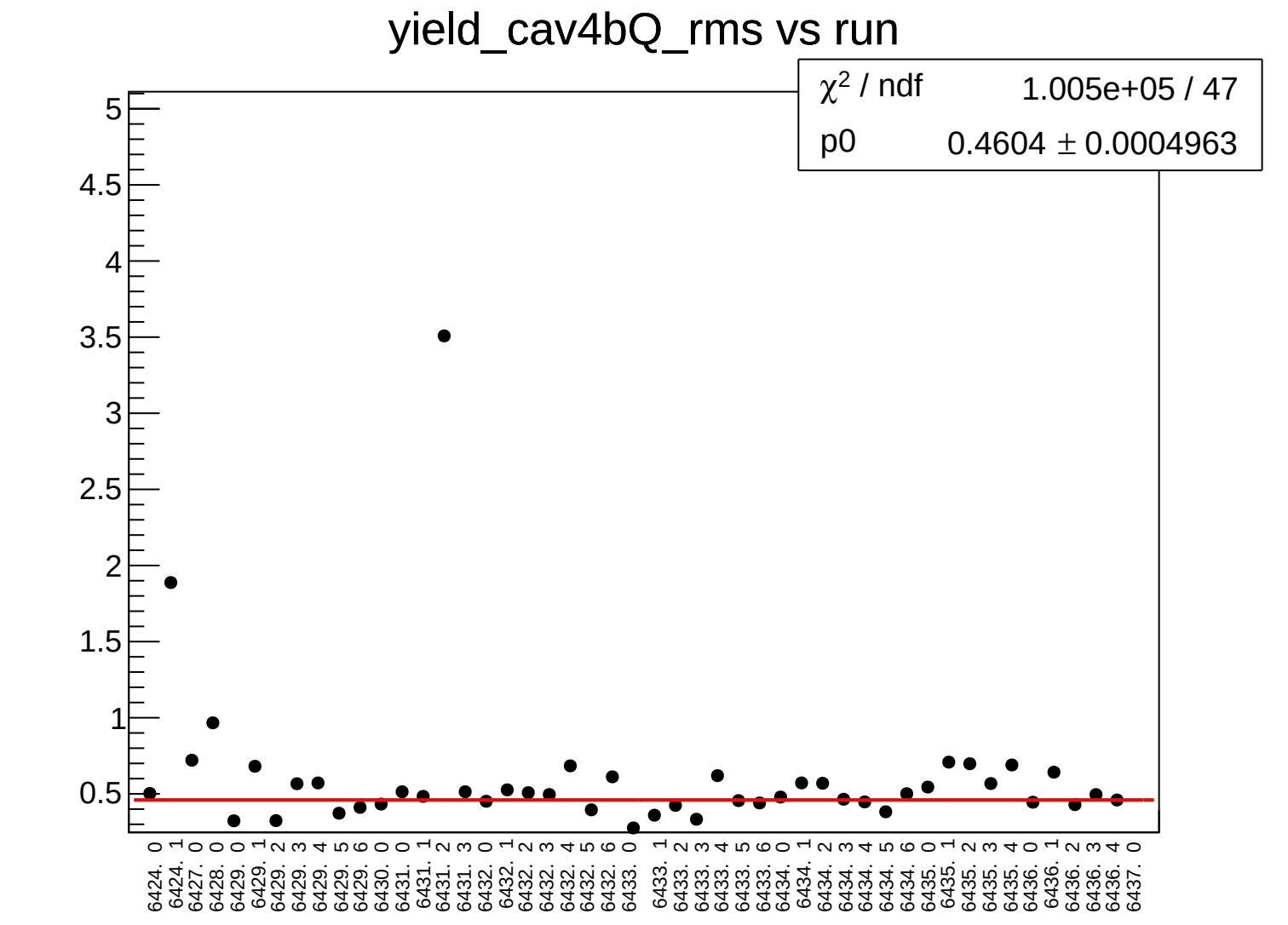

yield_bcm_dg_us_rms vs run
χ² / ndf 9.325e+04 / 47
p0 0.3502 ± 0.000376
5
4
3
2
1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

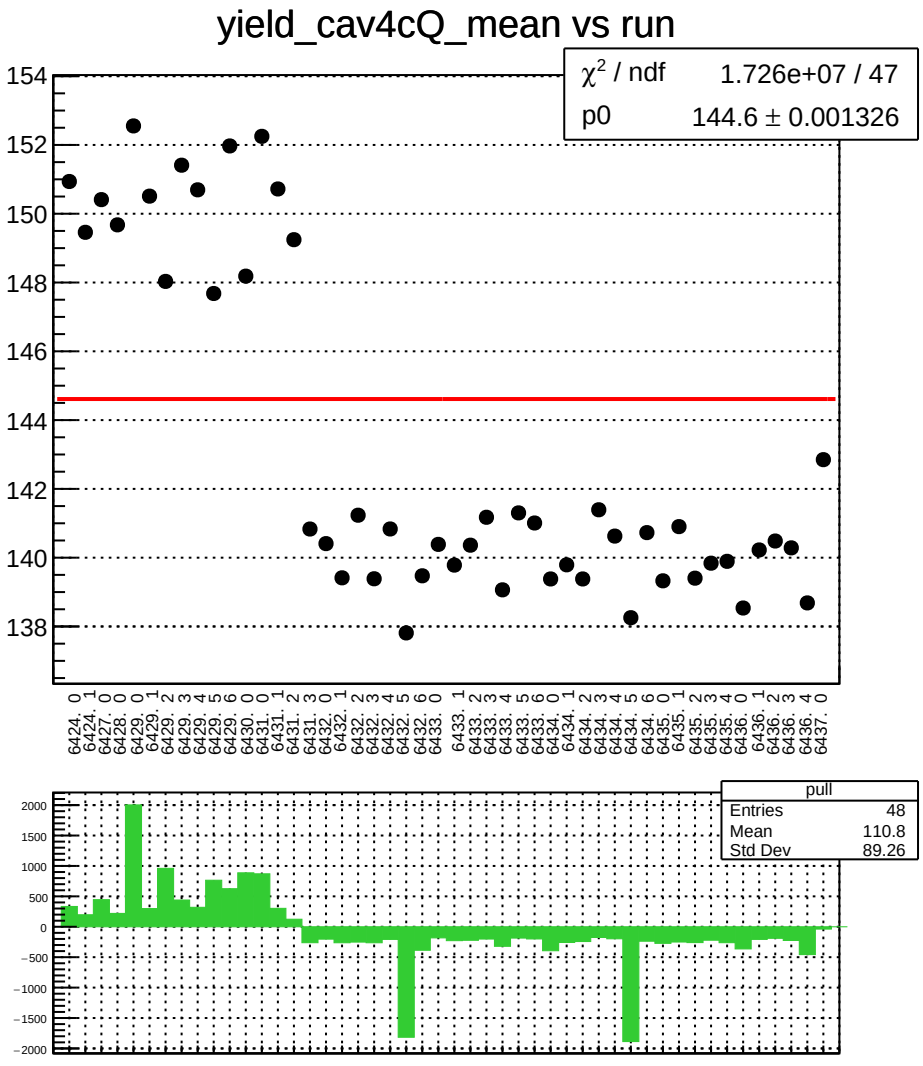

yield_bcm_dg_ds_mean vs run
χ² / ndf 6.671e+07 / 47
p0 141.8 ± 0.0005319
pull
Entries 48
Mean −156.4
Std Dev 177.8

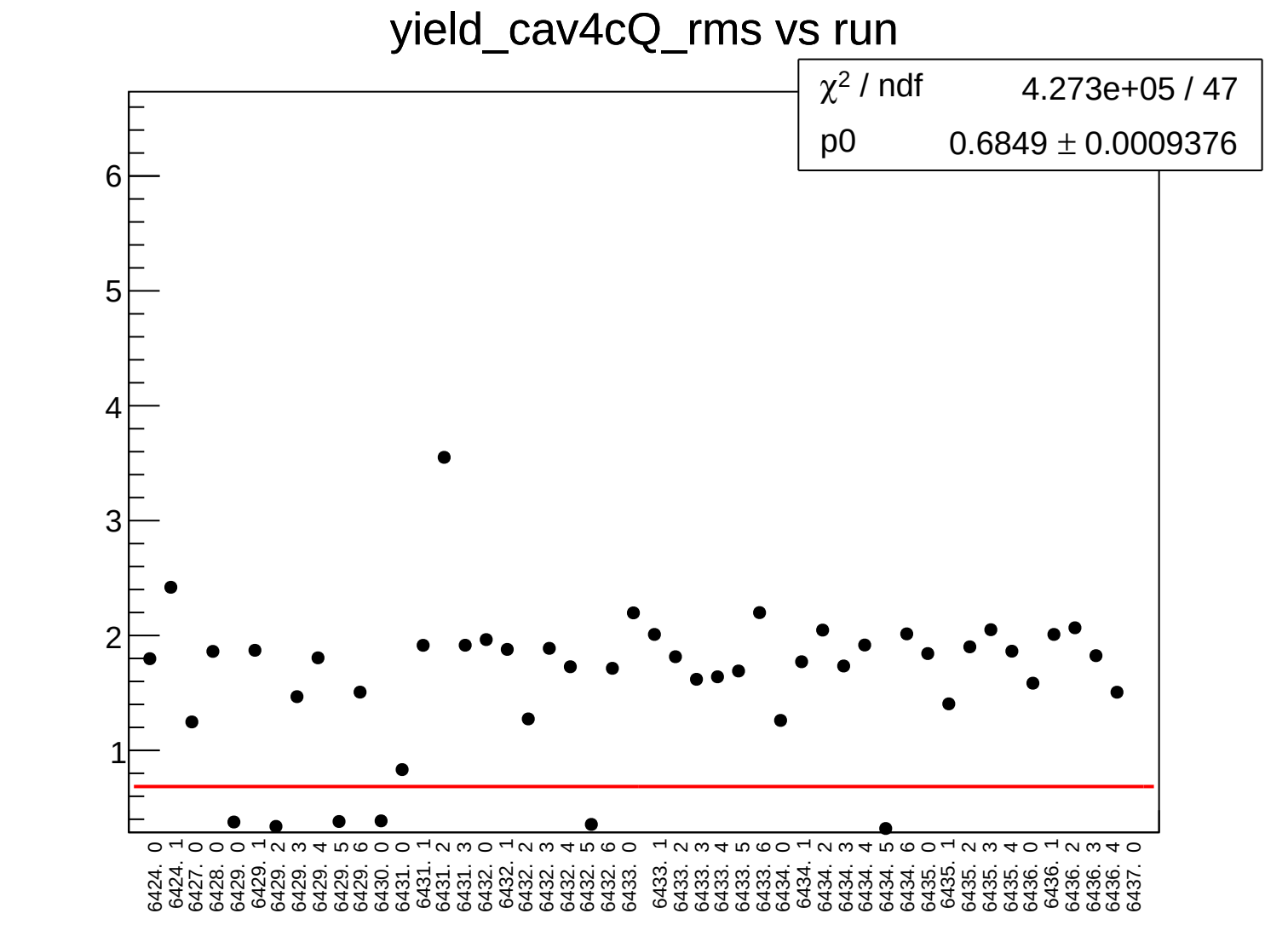

pull1D
Entries 48
Mean 7.128
Std Dev 0

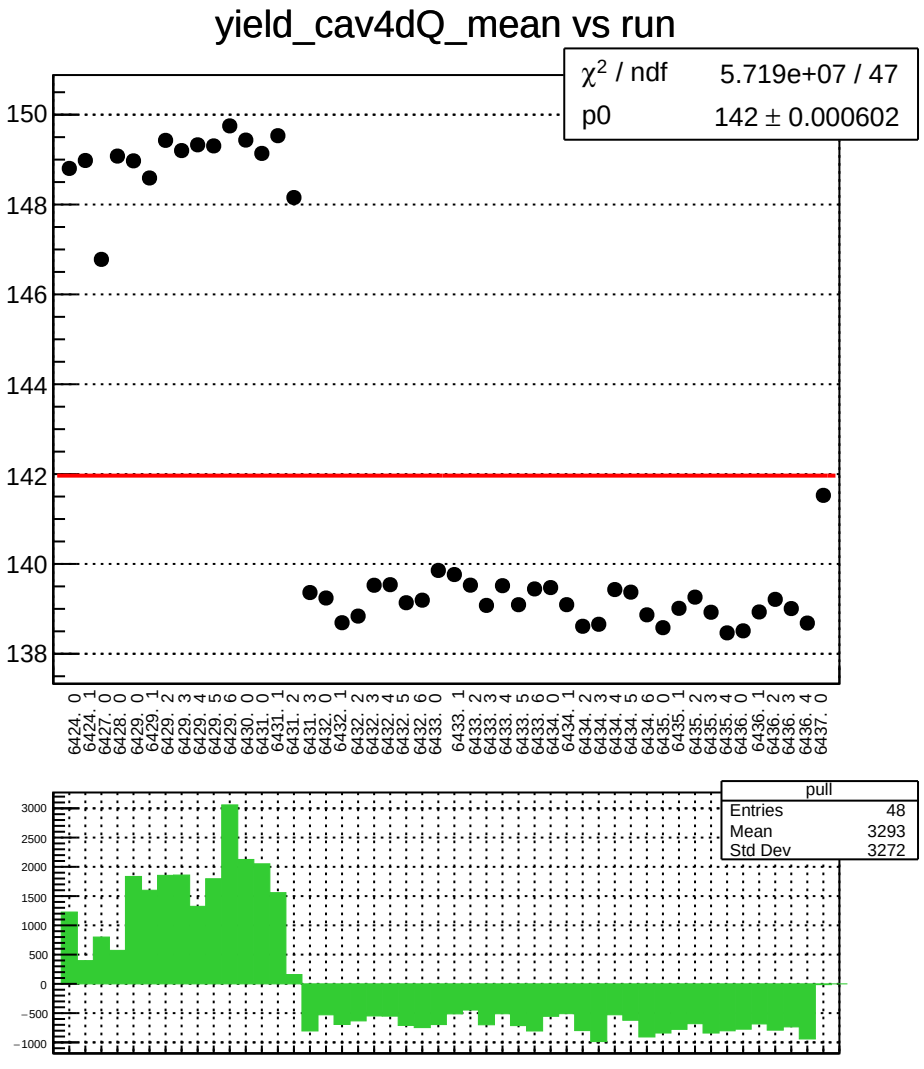

yield_bcm_dg_ds_rms vs run
χ² / ndf 9.799e+04 / 47
p0 0.3493 ± 0.0003761
5
4
3
2
1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_cav4bQ_mean vs run
χ² / ndf 4.09e+07 / 47
p0 142.1± 0.0007019
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 771
Std Dev 749.9
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean −4.067
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 1.005e+05 / 47
p0 0.4604 ± 0.0004963
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_cav4cQ_mean vs run
χ² / ndf 1.726e+07 / 47
p0 144.6 ± 0.001326
154
152
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 110.8
Std Dev 89.26
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 48
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_cav4cQ_rms vs run
χ² / ndf 4.273e+05 / 47
p0 0.6849 ± 0.0009376
6
5
4
3
2
1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_cav4dQ_mean vs run
χ² / ndf 5.719e+07 / 47
p0 142 ± 0.000602
150
148
146
144
142
140
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
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6433. 0
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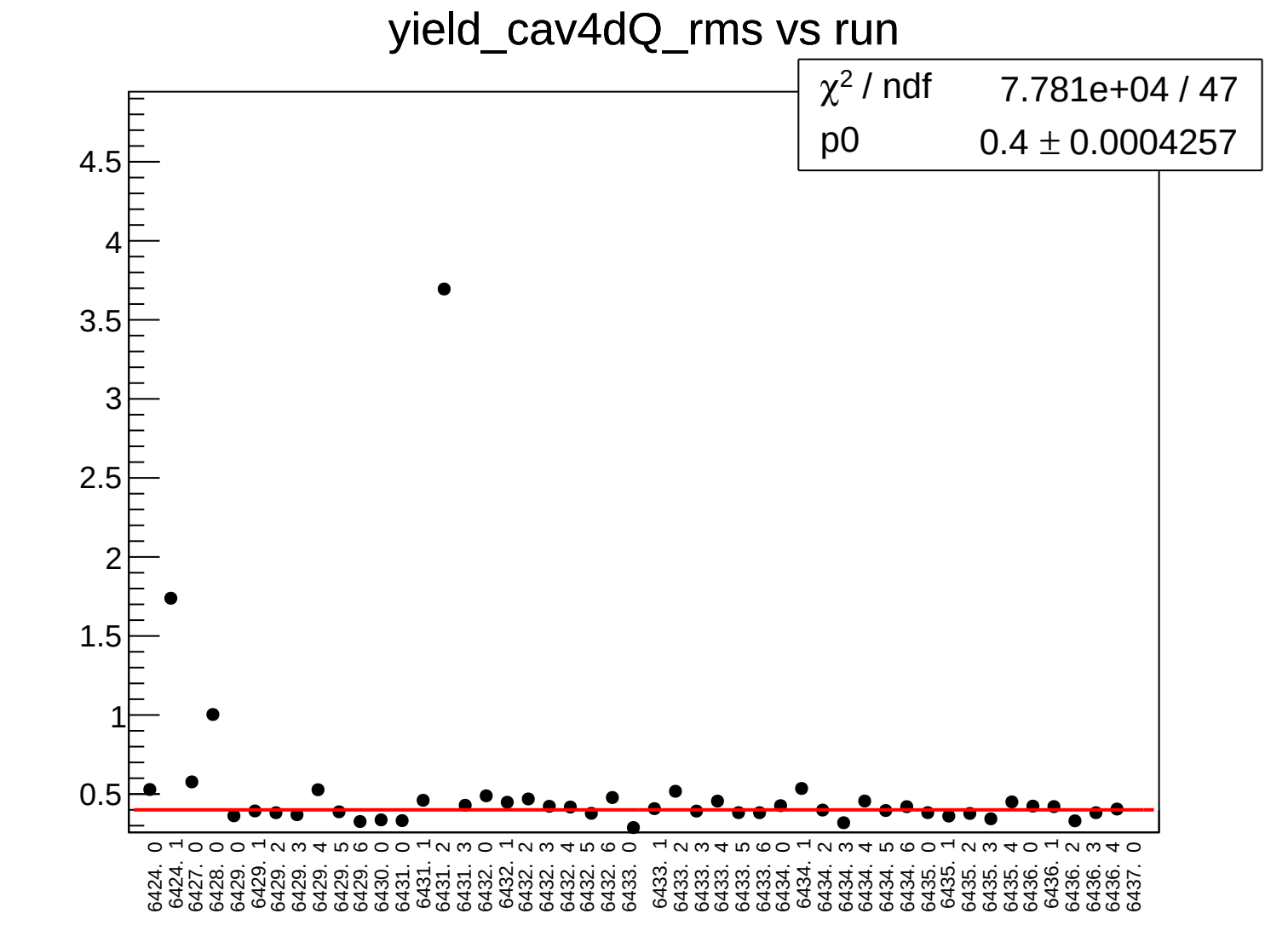
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 3293
Std Dev 3272
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dQ_rms vs run
χ² / ndf 7.781e+04 / 47
p0 0.4 ± 0.0004257
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
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6433. 1
6433. 2
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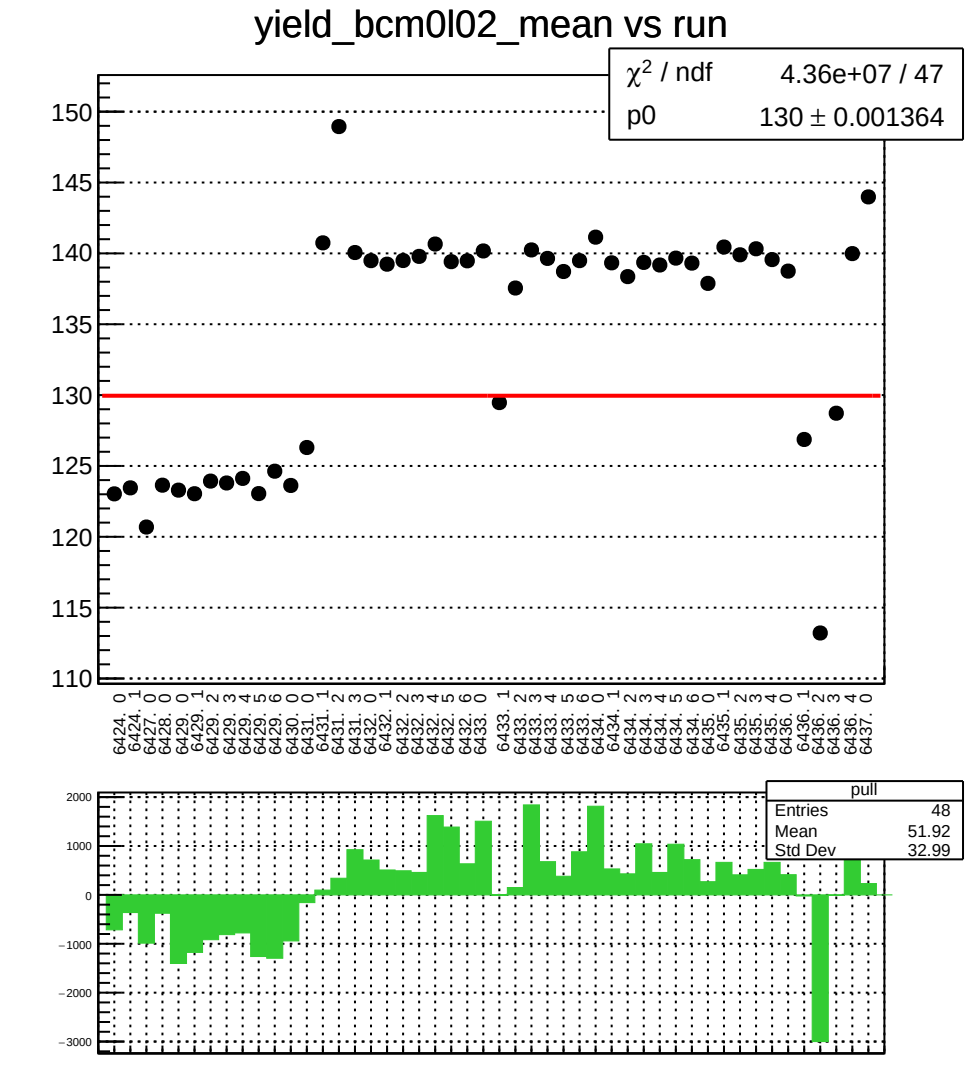
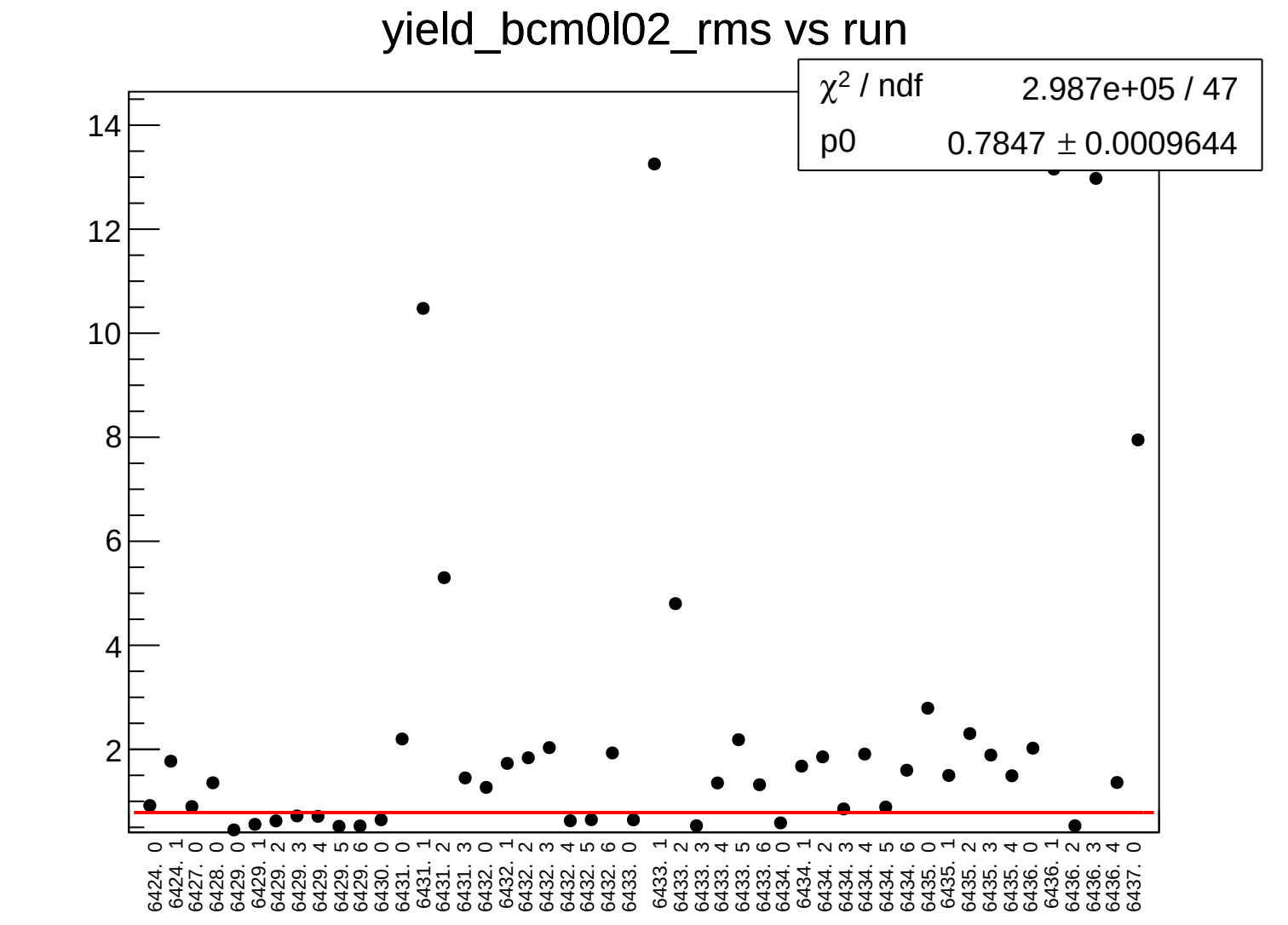
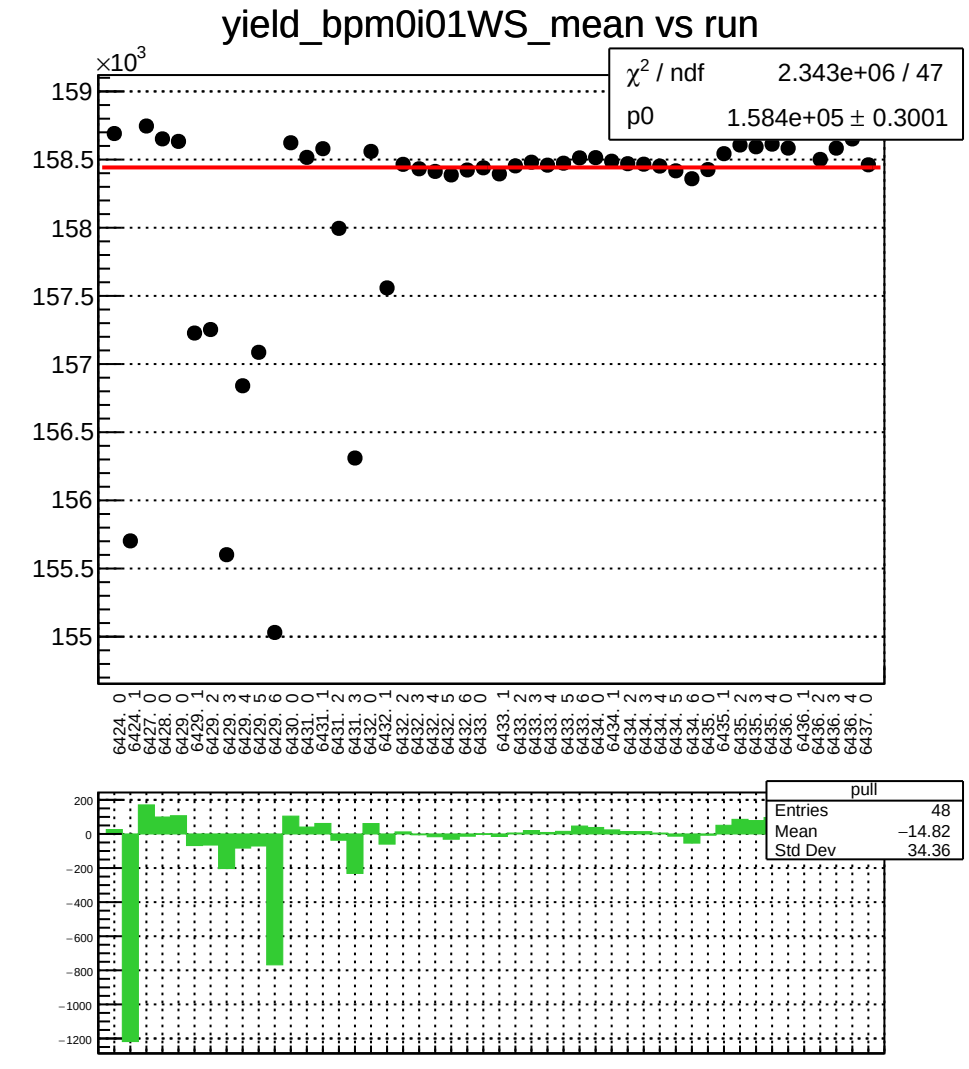
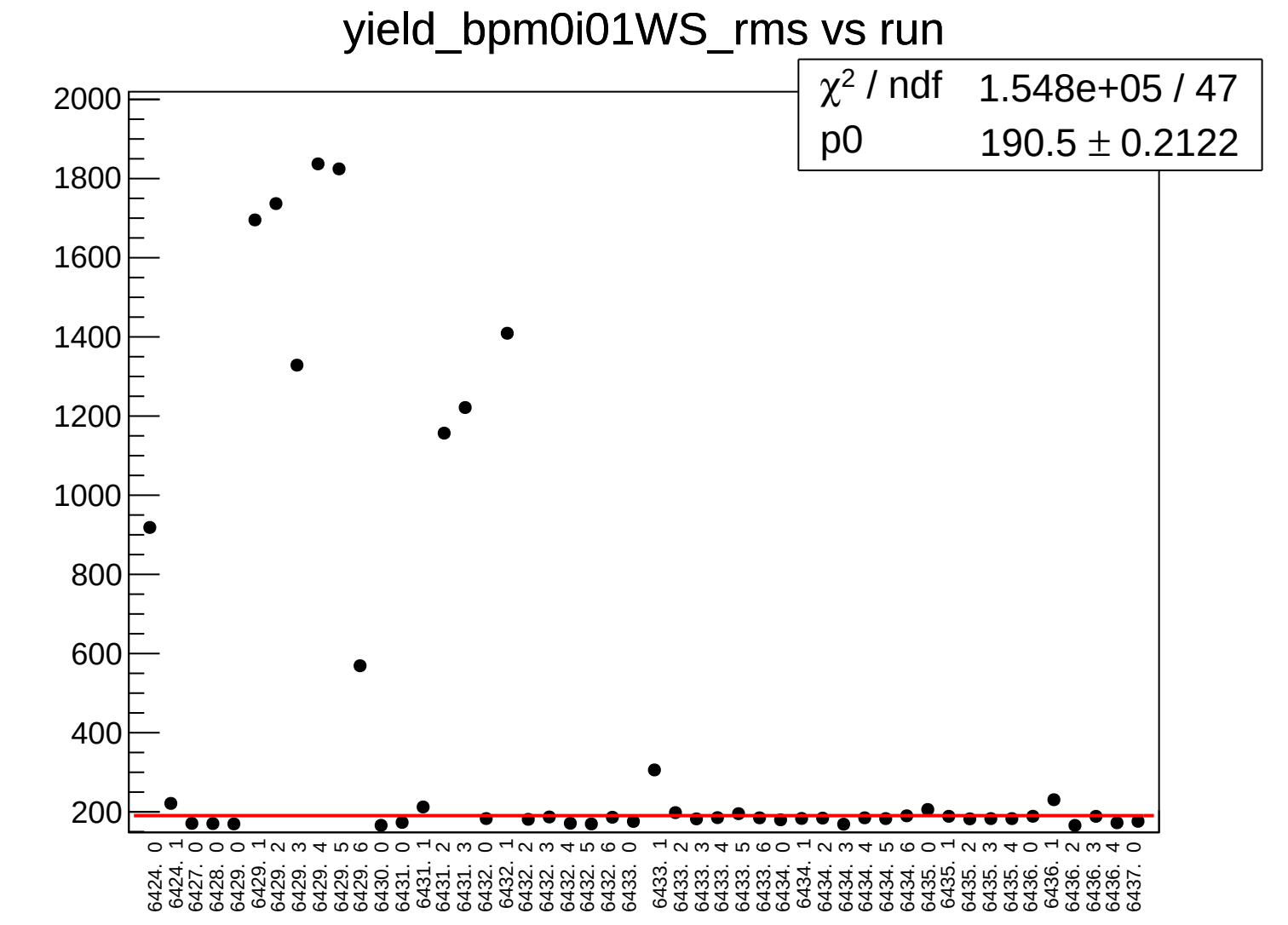
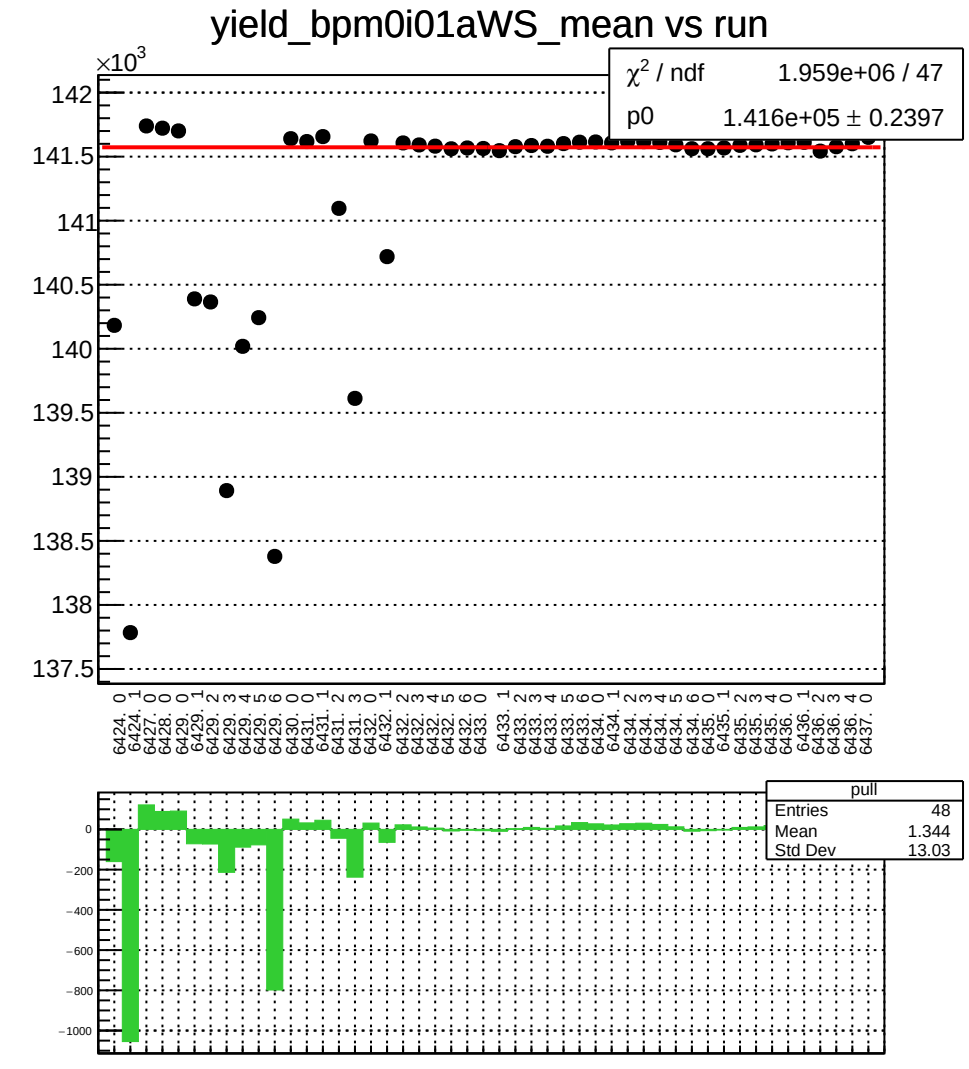
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

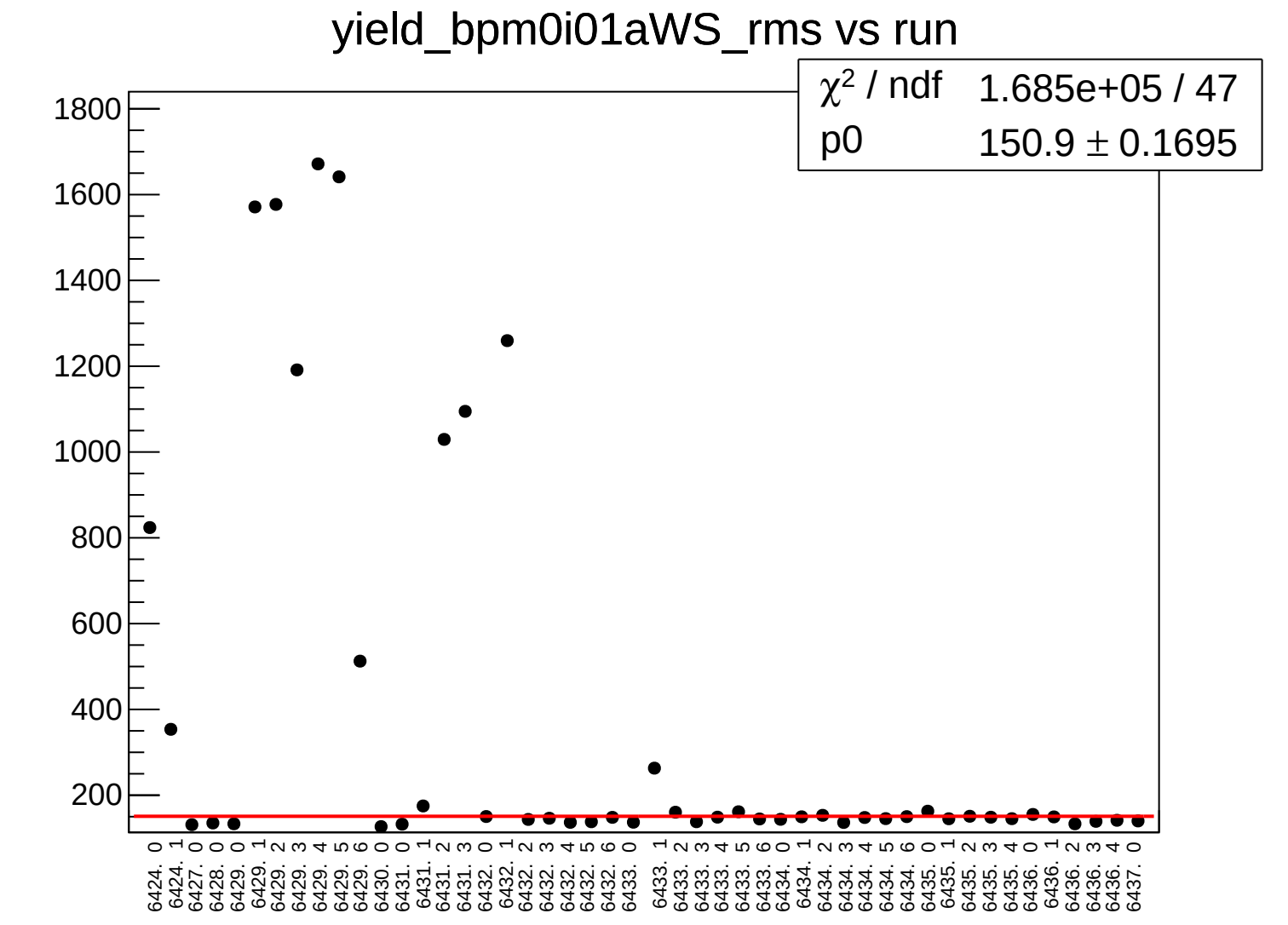

yield_bcm0l02_mean vs run
χ² / ndf 4.36e+07 / 47
p0 130 ± 0.001364
150
145
140
135
130
125
120
115
110
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 51.92
Std Dev 32.99
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 48
Mean −3.456
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

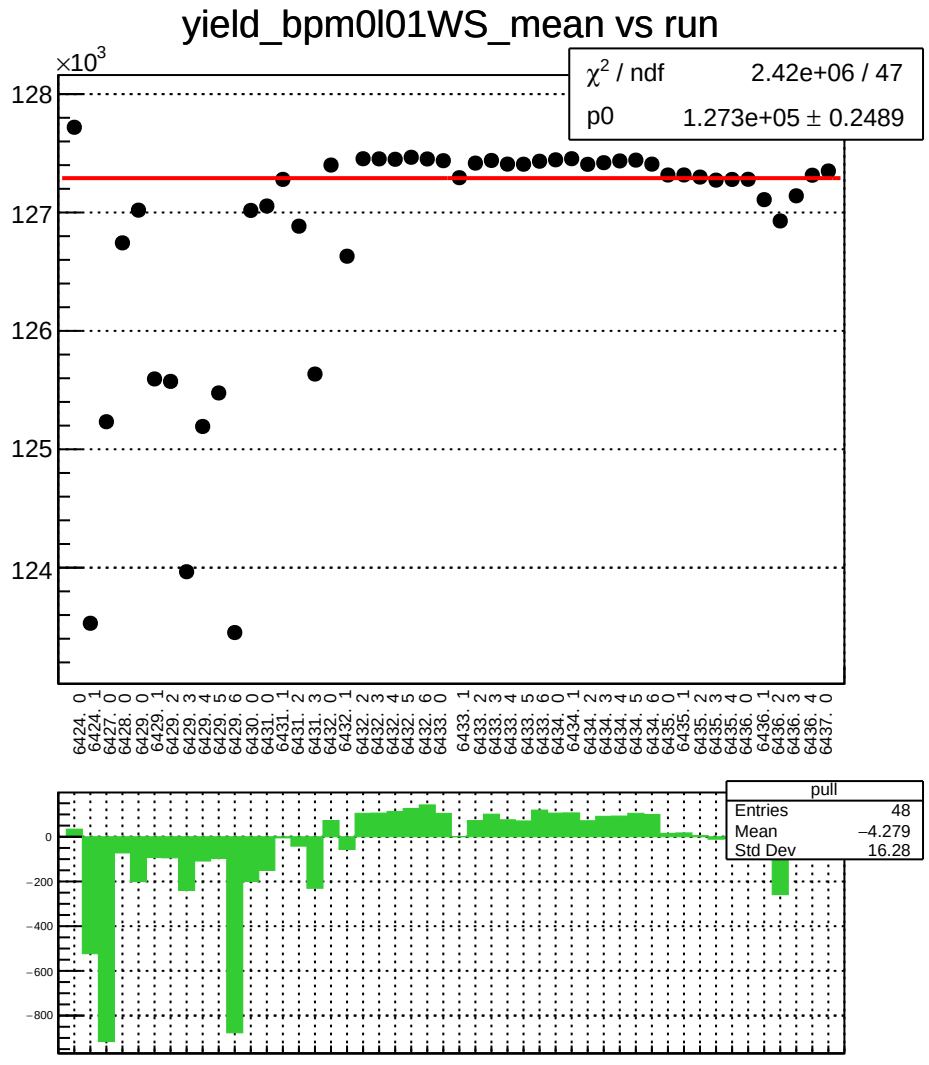

yield_bcm0l02_rms vs run
χ² / ndf 2.987e+05 / 47
p0 0.7847 ± 0.0009644
14
12
10
8
6
4
2
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

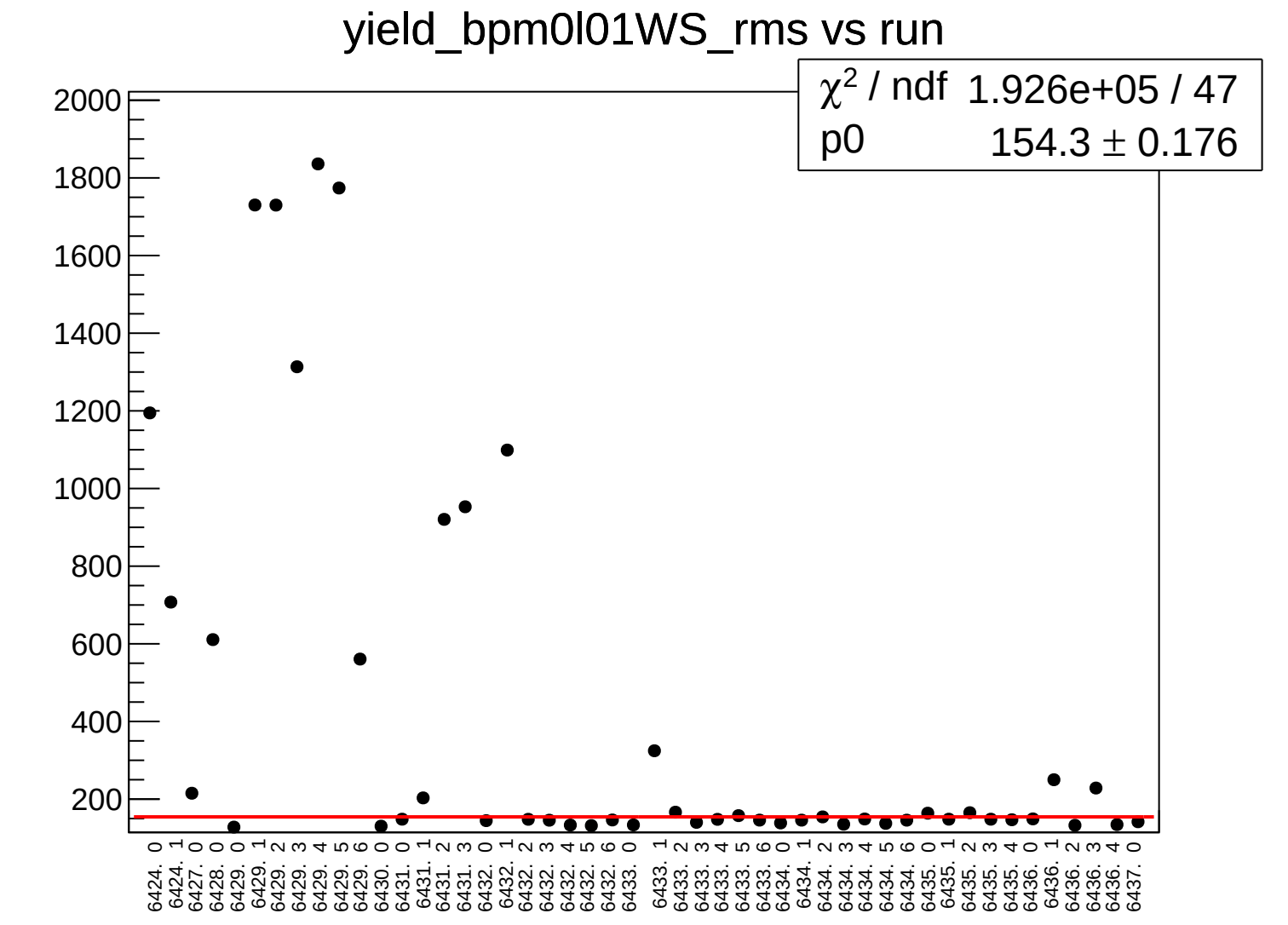

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.343e+06 / 47
p0 1.584e+05 ± 0.3001
159
158.5
158
157.5
157
156.5
156
155.5
155
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −14.82
Std Dev 34.36
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 48
Mean −0.586
Std Dev 5.159
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

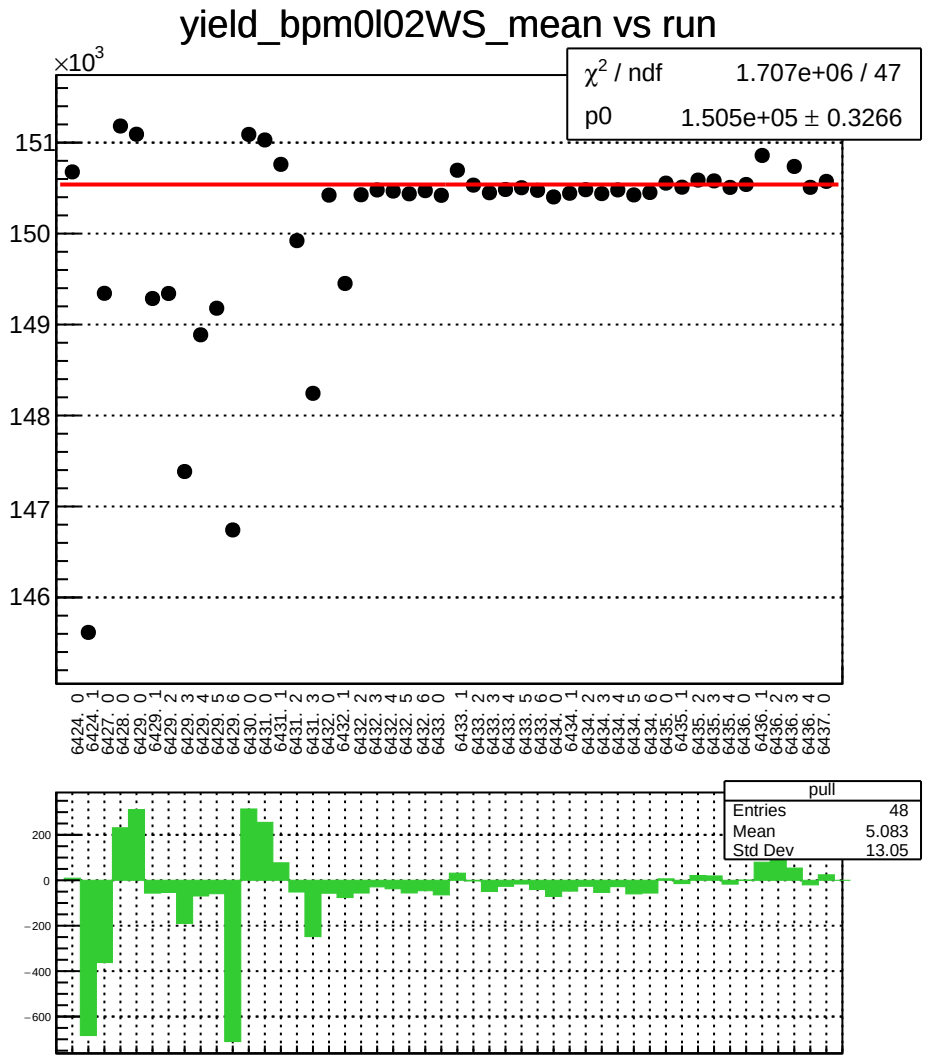

yield_bpm0i01WS_rms vs run
χ² / ndf 1.548e+05 / 47
p0 190.5 ± 0.2122
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

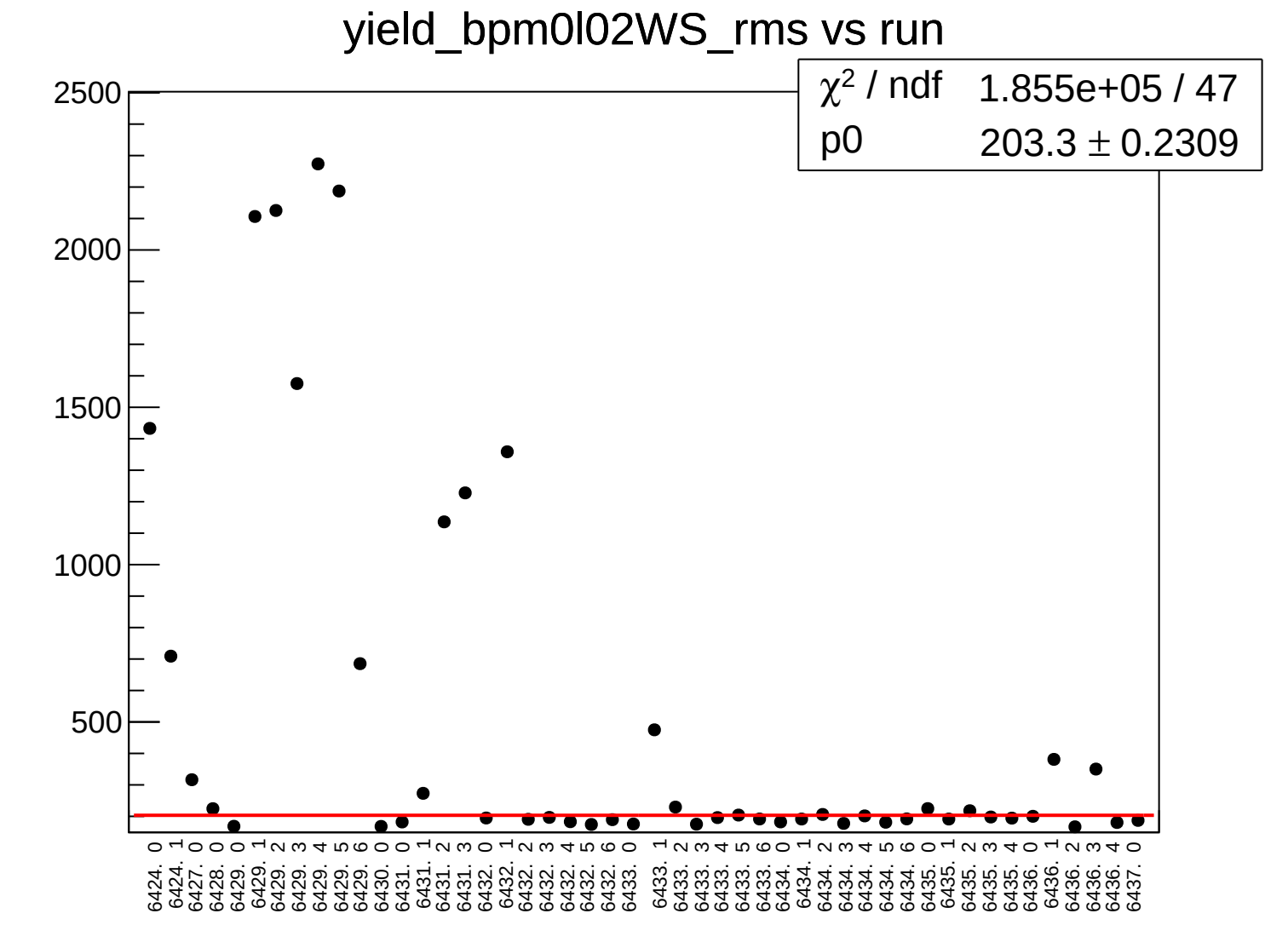

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.959e+06 / 47
p0 1.416e+05 ± 0.2397
142
141.5
141
140.5
140
139.5
139
138.5
138
137.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 1.344
Std Dev 13.03
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean −1.163
Std Dev 5.219
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

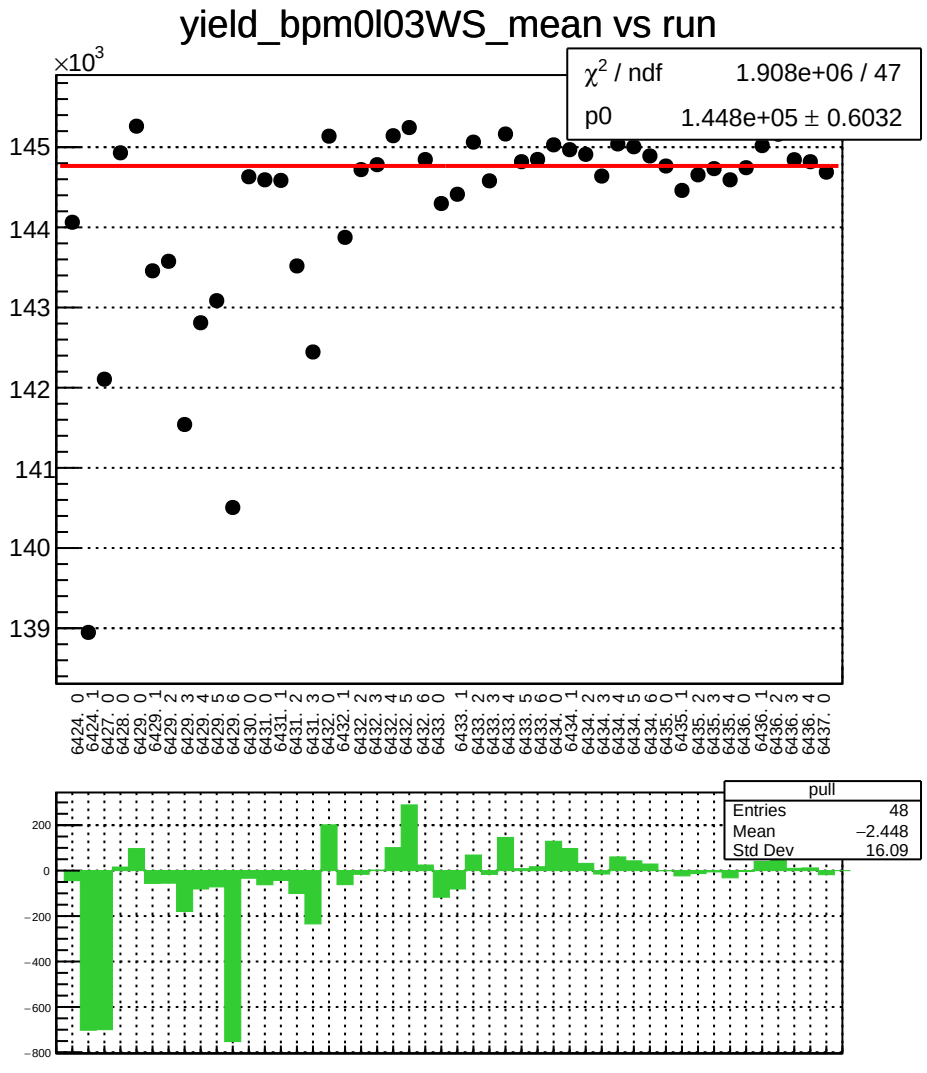

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.685e+05 / 47
p0 150.9 ± 0.1695
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

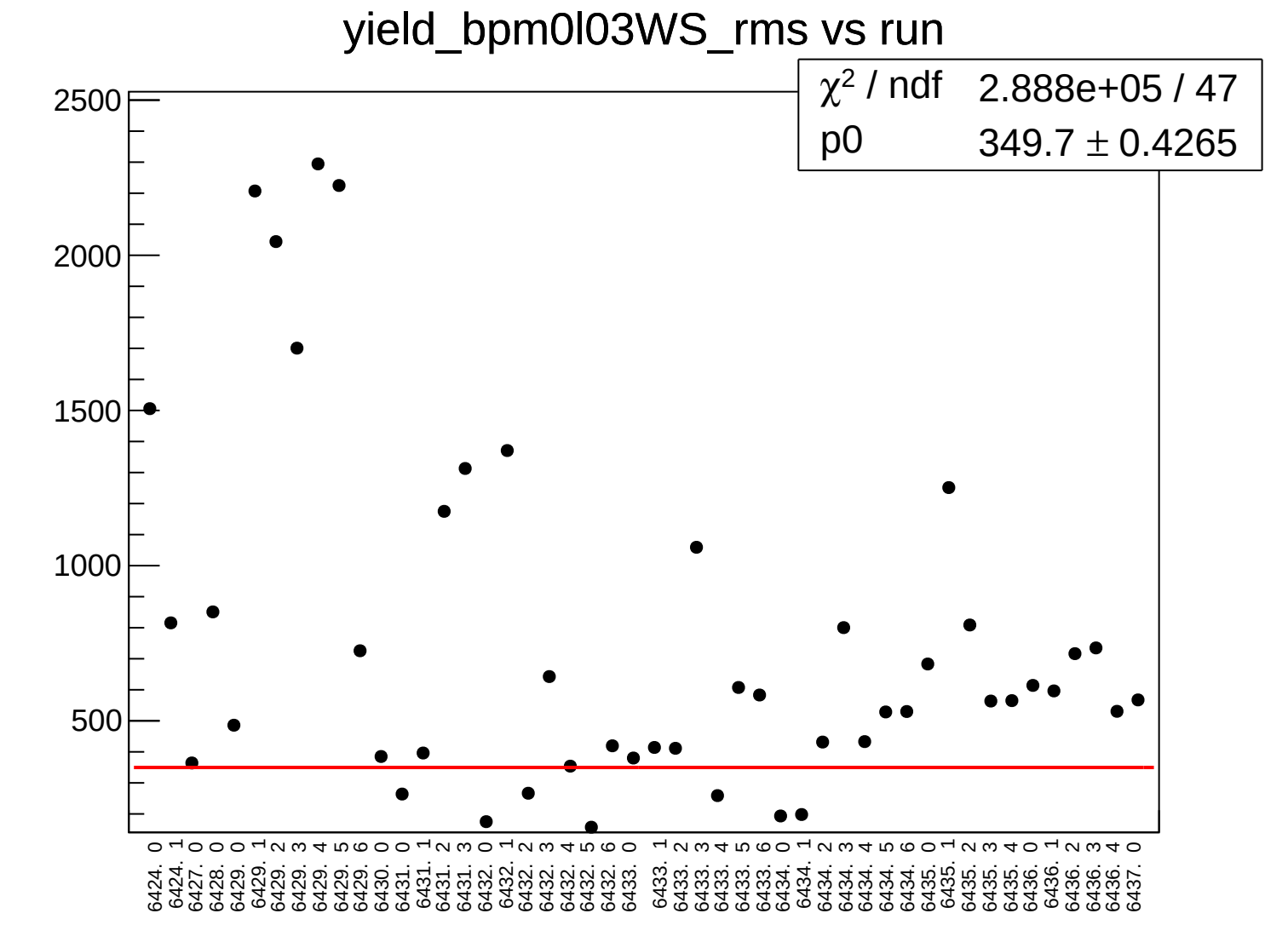

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.42e+06 / 47
p0 1.273e+05 ± 0.2489
128
127
126
125
124
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −4.279
Std Dev 16.28
0
−200
−400
−600
−800
pull1D
Entries 48
Mean −2.493
Std Dev 4.854
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

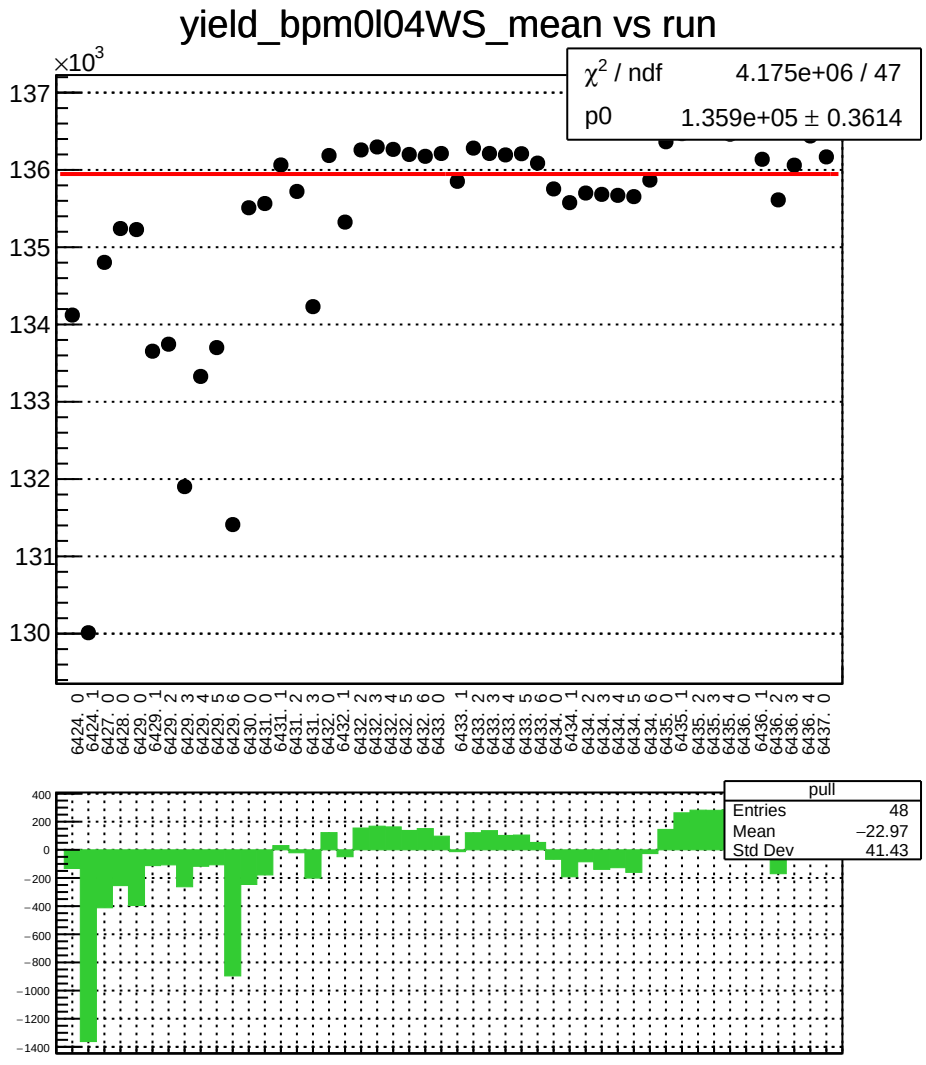

yield_bpm0l01WS_rms vs run
χ² / ndf 1.926e+05 / 47
p0 154.3 ± 0.176
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

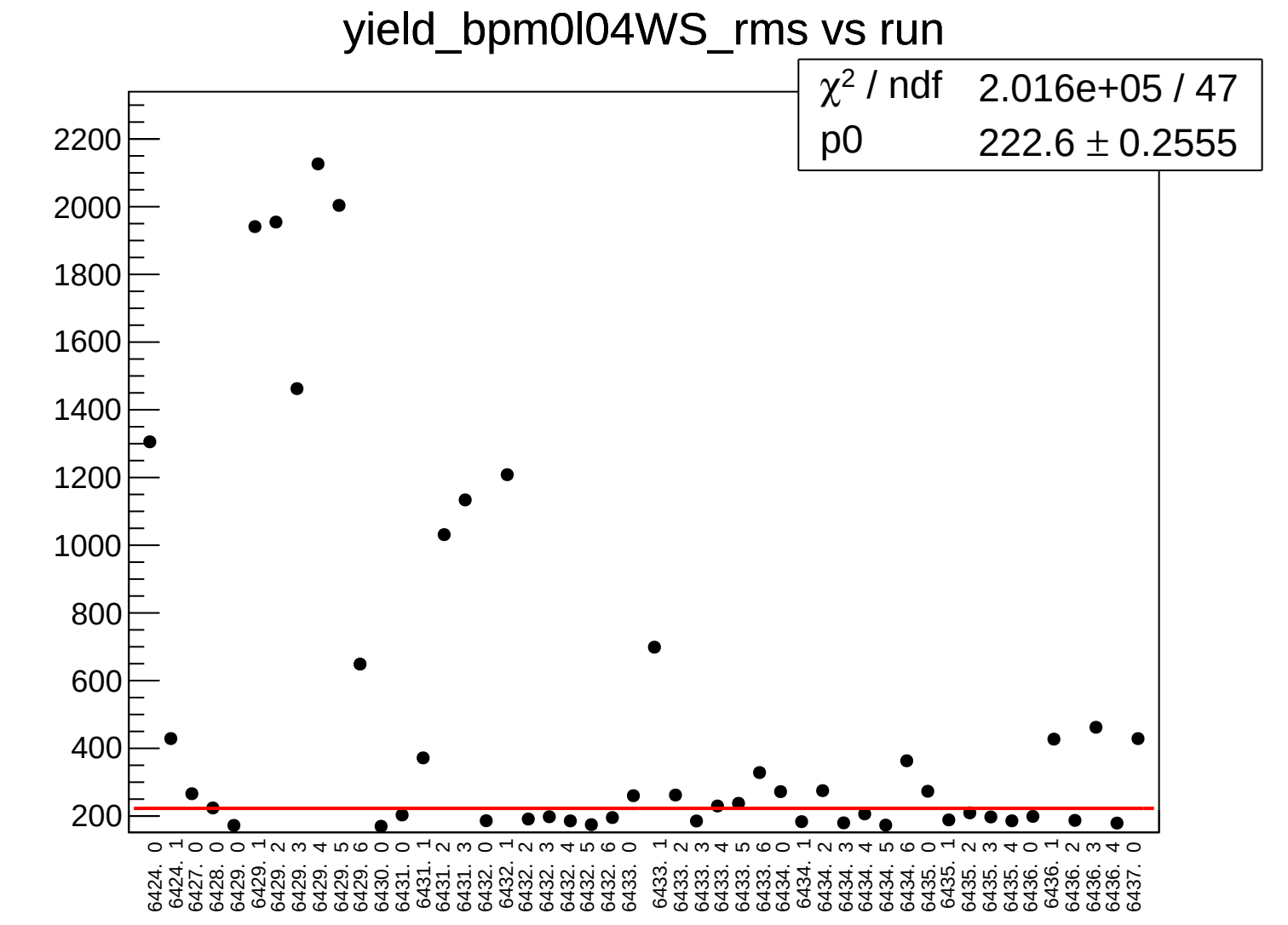

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 1.707e+06 / 47
p0 1.505e+05 ± 0.3266
151
150
149
148
147
146
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 5.083
Std Dev 13.05
200
0
−200
−400
−600
pull1D
Entries 48
Mean 1.28
Std Dev 3.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

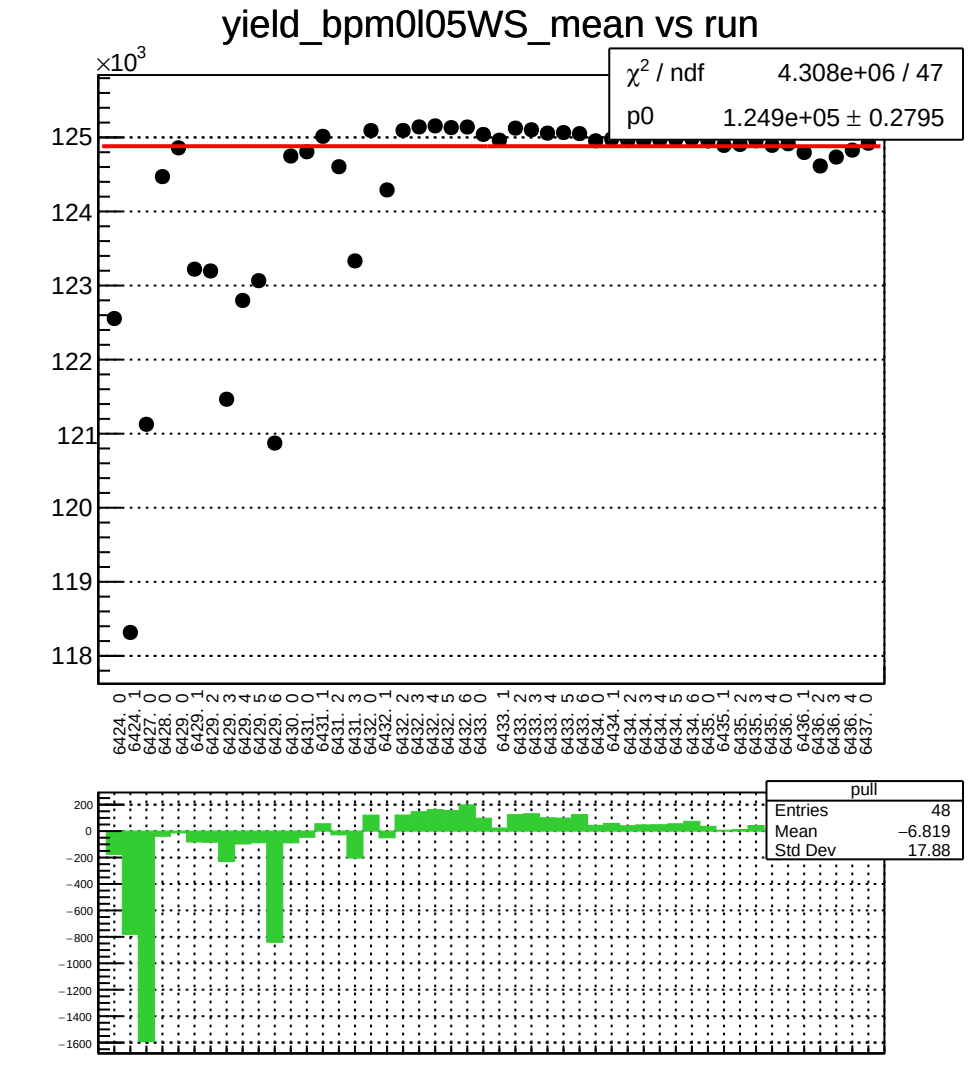

yield_bpm0l02WS_rms vs run
χ² / ndf 1.855e+05 / 47
p0 203.3 ± 0.2309
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

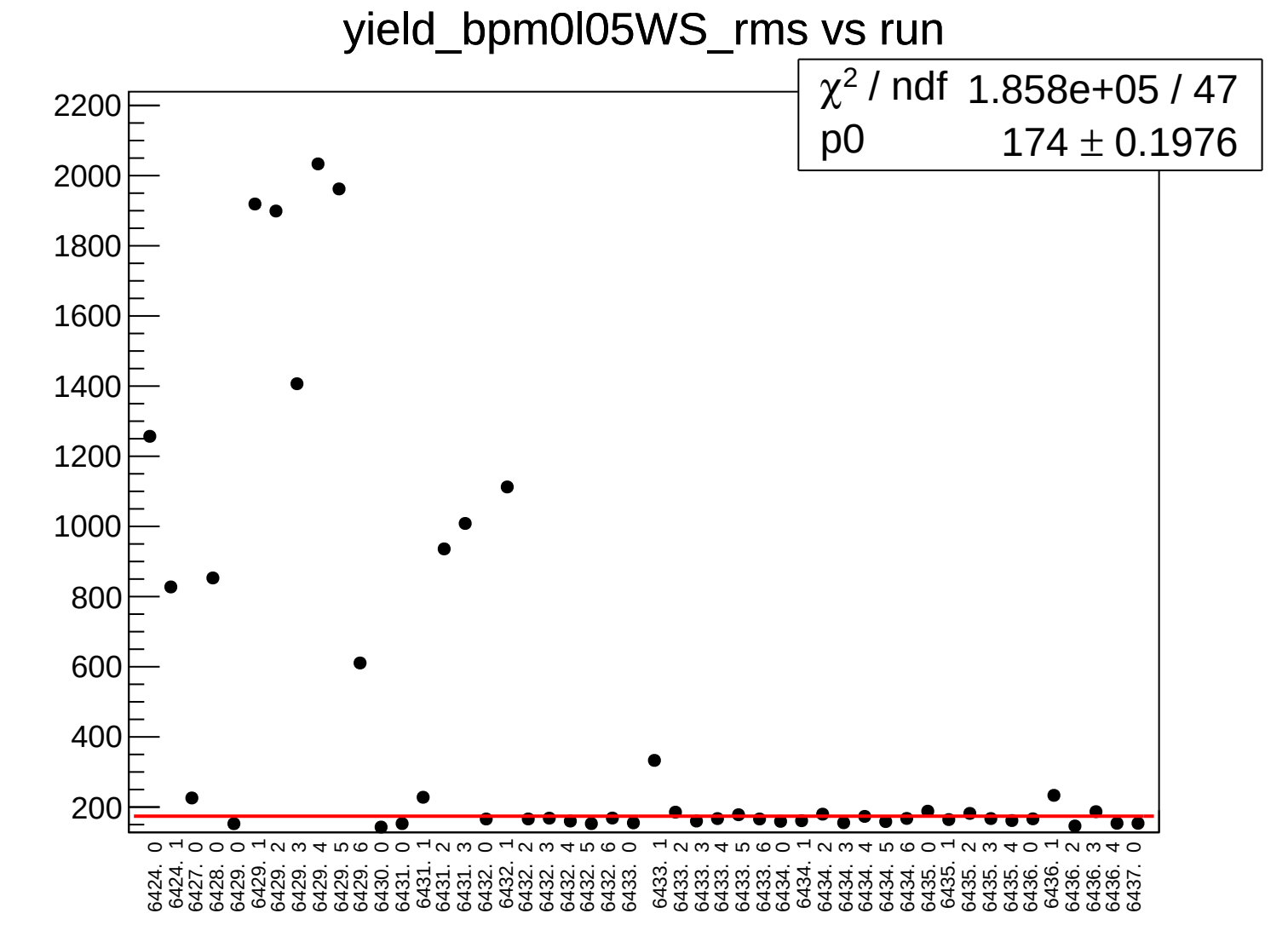

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.908e+06 / 47
p0 1.448e+05 ± 0.6032
145
144
143
142
141
140
139
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −2.448
Std Dev 16.09
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean −1.697
Std Dev 3.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

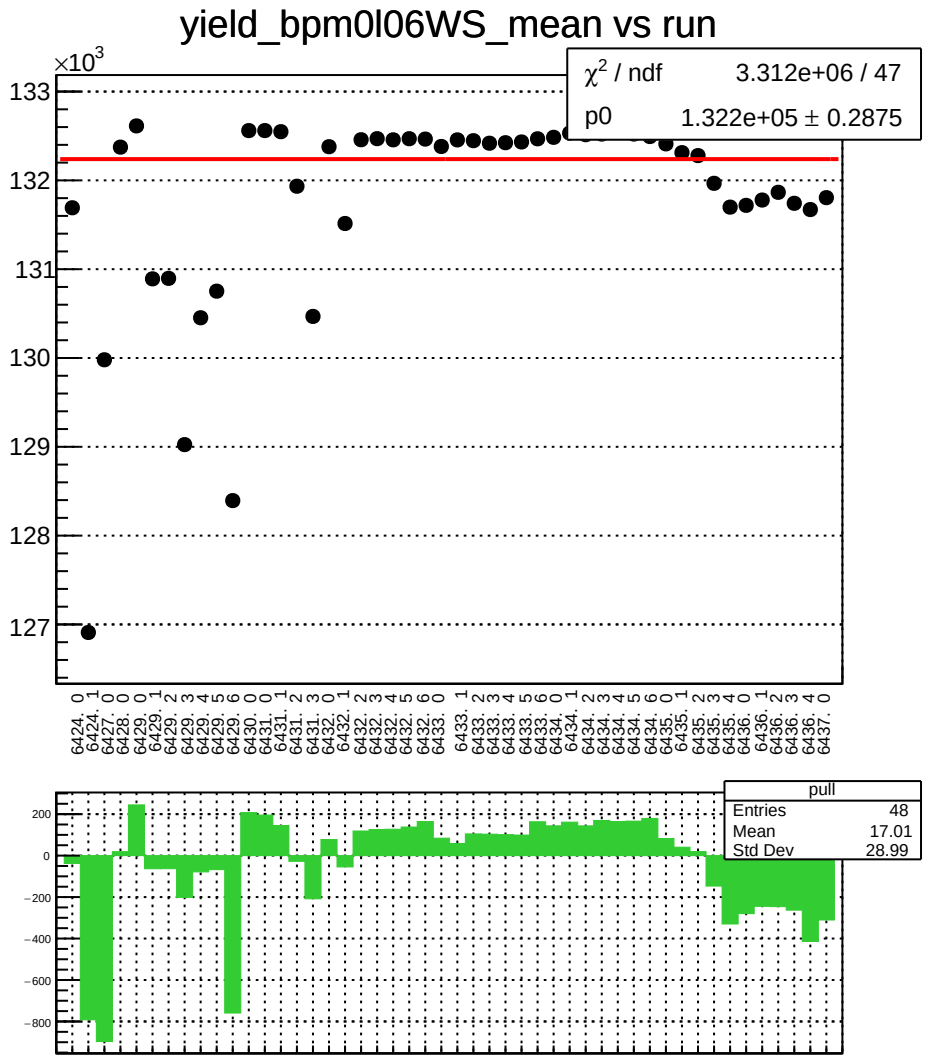

yield_bpm0l03WS_rms vs run
χ² / ndf 2.888e+05 / 47
p0 349.7 ± 0.4265
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

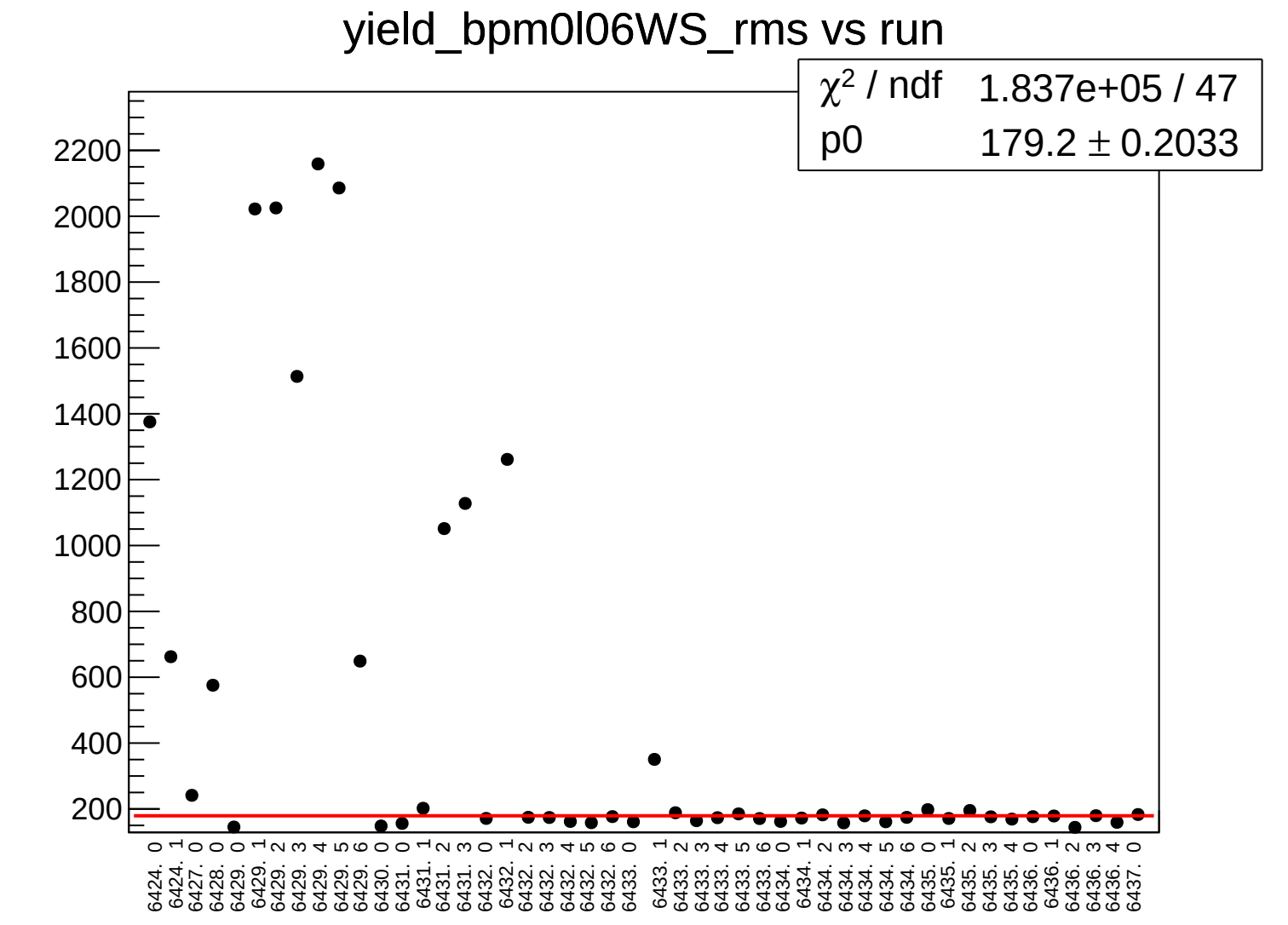

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.175e+06 / 47
p0 1.359e+05 ± 0.3614
137
136
135
134
133
132
131
130
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −22.97
Std Dev 41.43
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

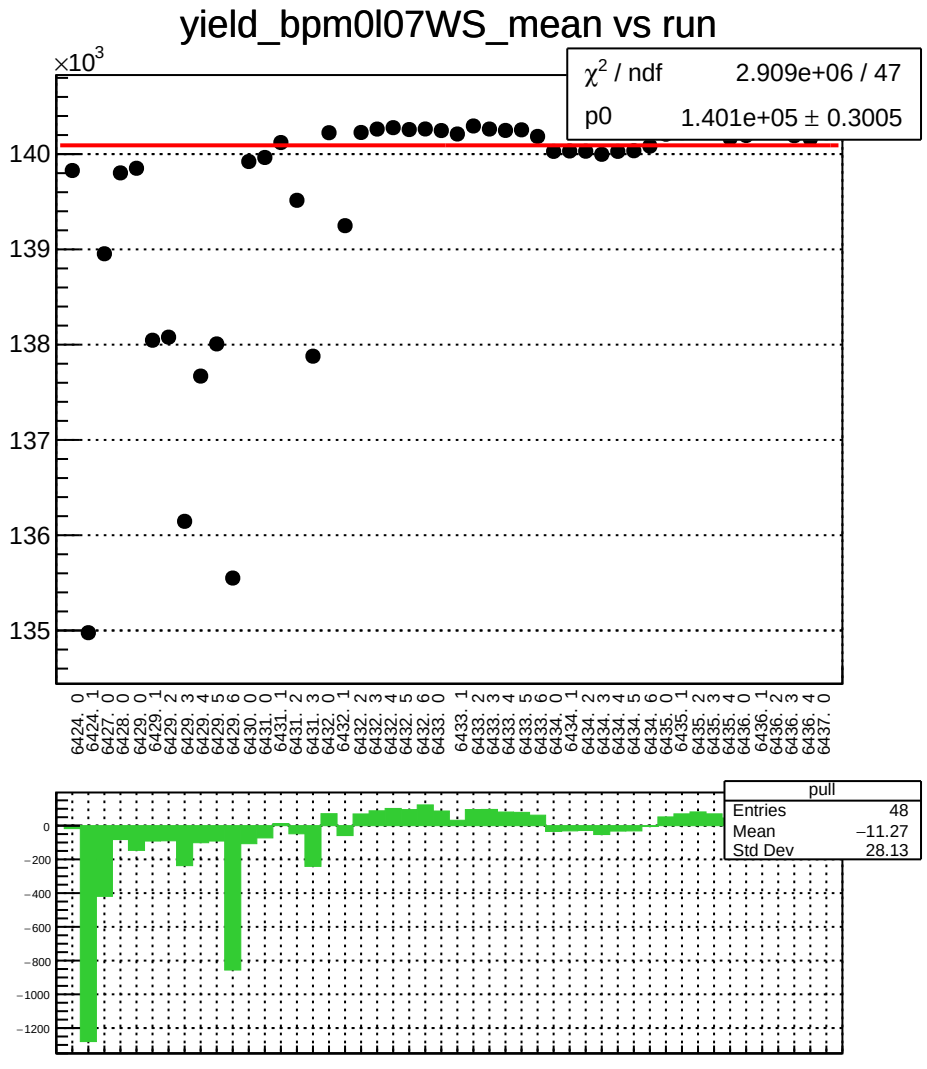

yield_bpm0l04WS_rms vs run
χ² / ndf 2.016e+05 / 47
p0 222.6 ± 0.2555
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

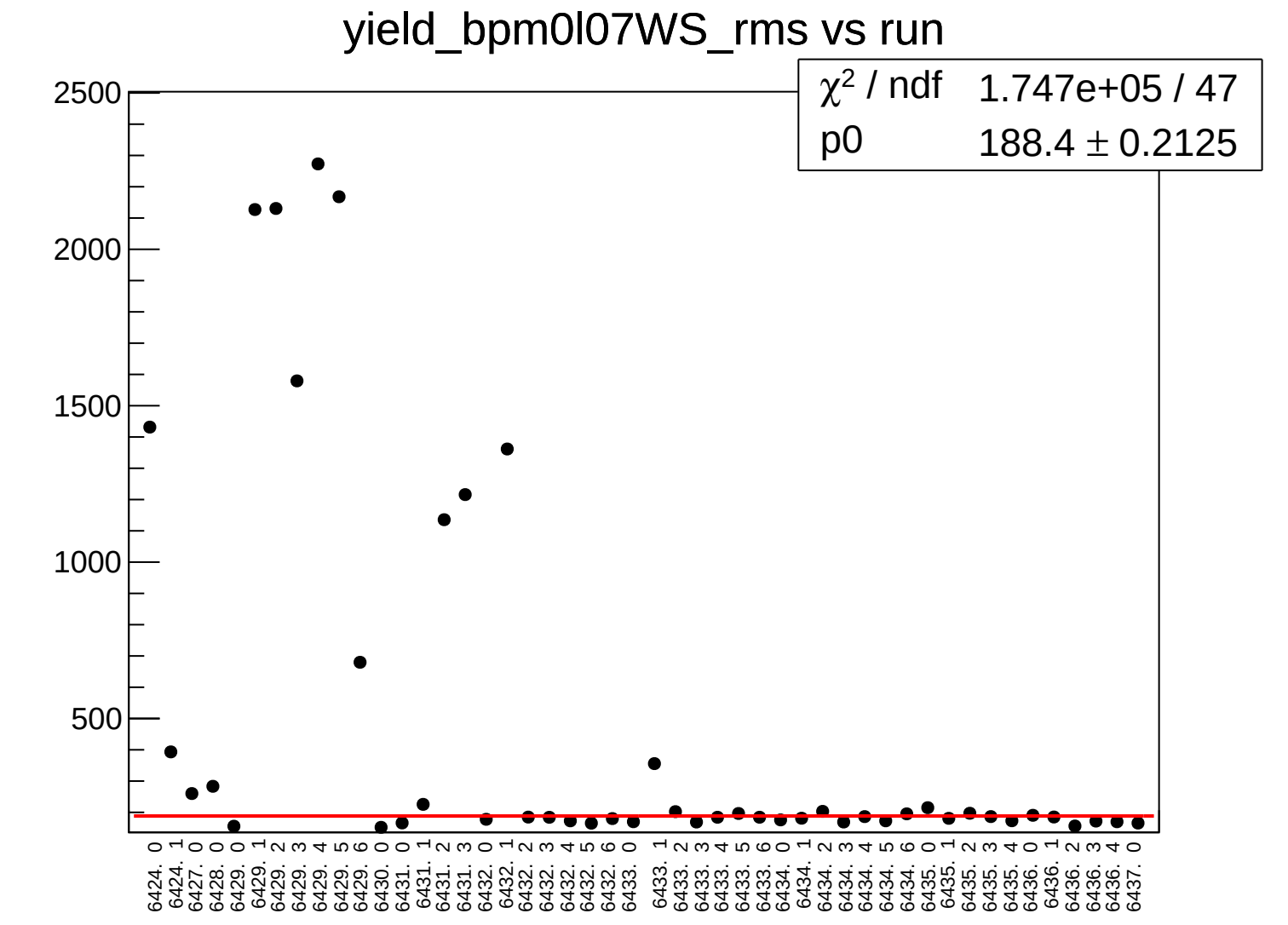

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 4.308e+06 / 47
p0 1.249e+05 ± 0.2795
125
124
123
122
121
120
119
118
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −6.819
Std Dev 17.88
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 48
Mean 7.065
Std Dev 0.5683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

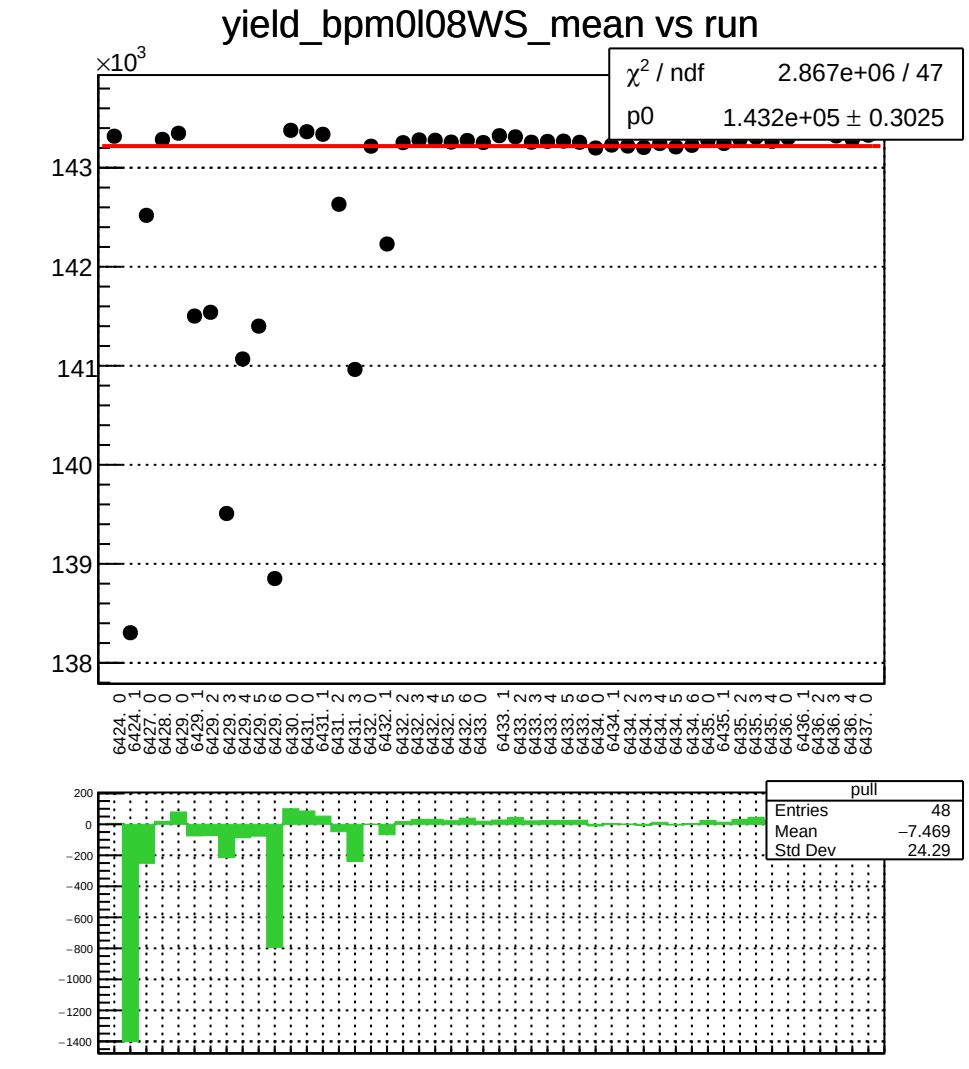

yield_bpm0l05WS_rms vs run
χ² / ndf 1.858e+05 / 47
p0 174 ± 0.1976
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

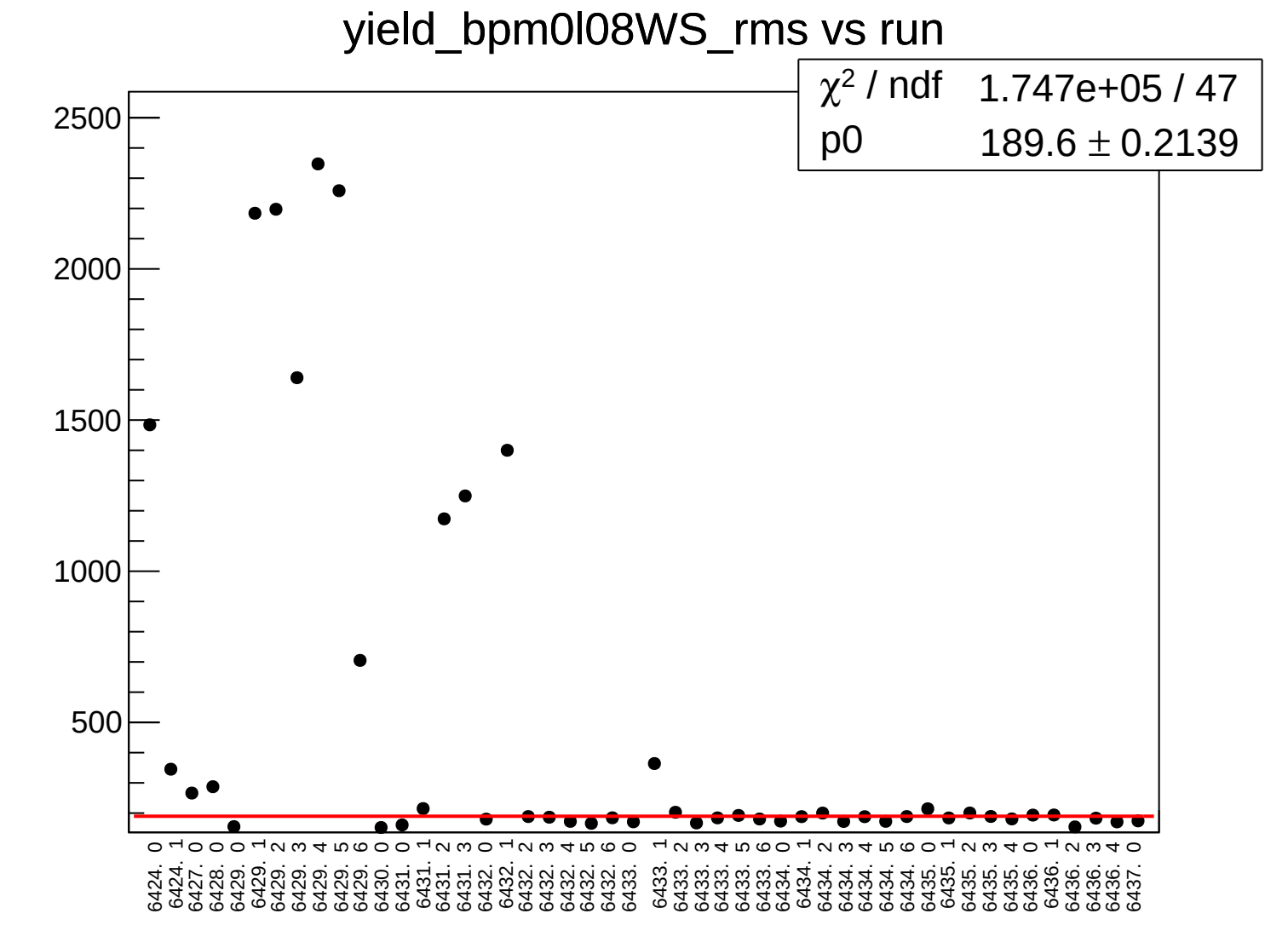

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.312e+06 / 47
p0 1.322e+05 ± 0.2875
133
132
131
130
129
128
127
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 17.01
Std Dev 28.99
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

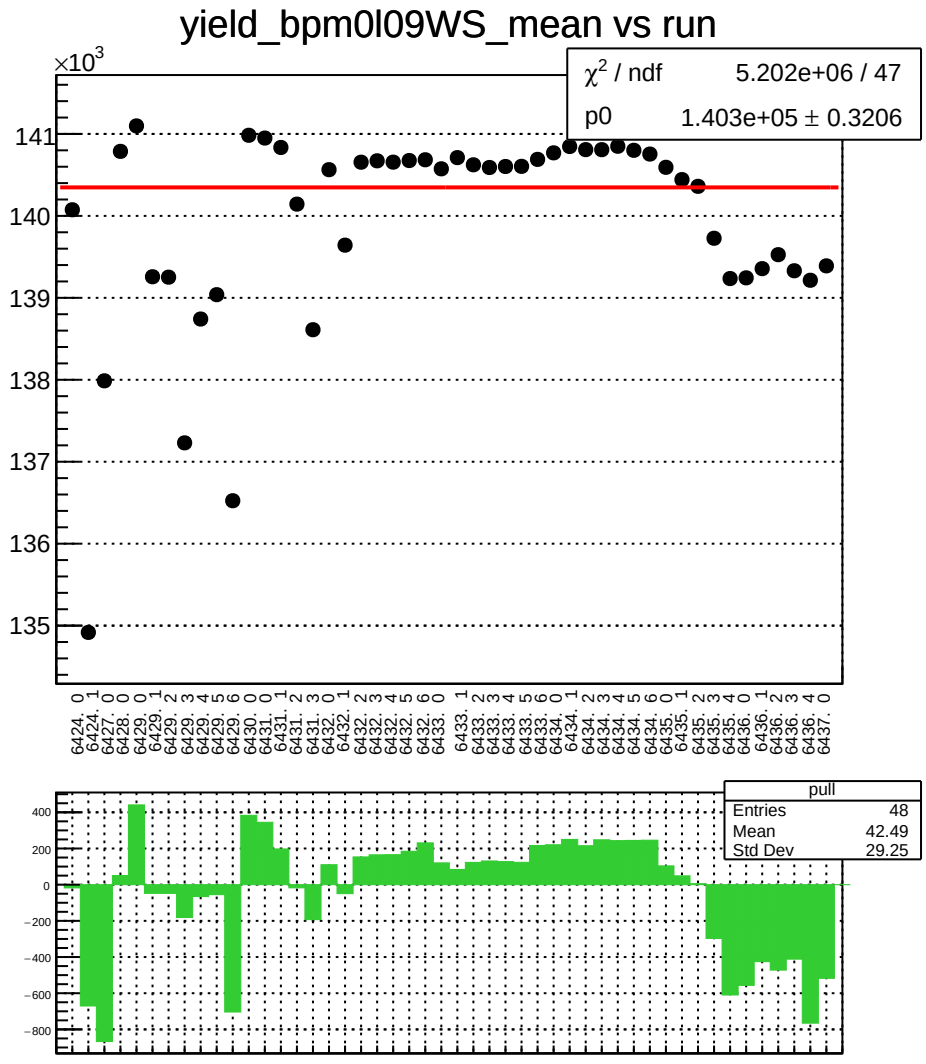

yield_bpm0l06WS_rms vs run
χ² / ndf 1.837e+05 / 47
p0 179.2 ± 0.2033
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

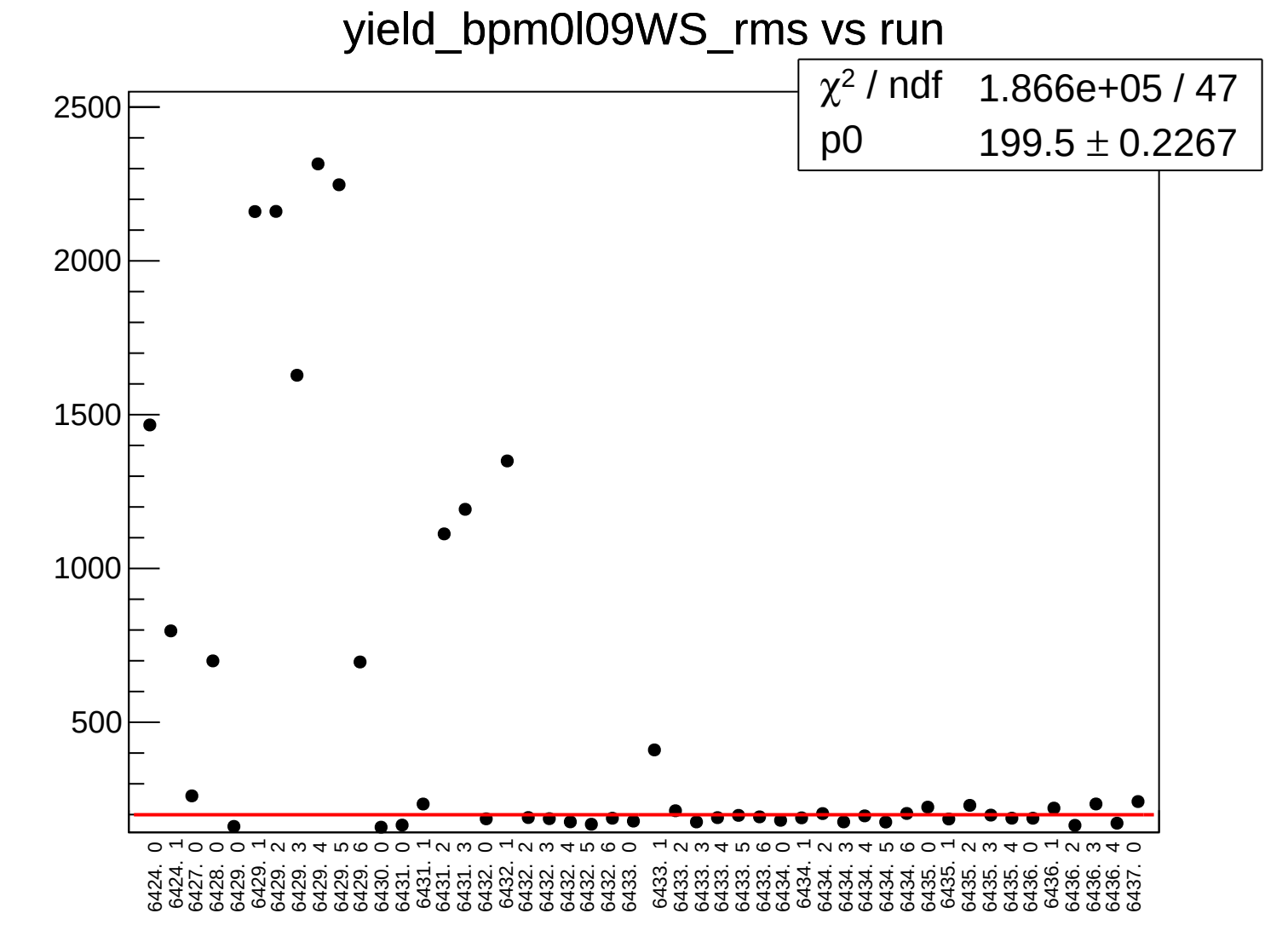

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 2.909e+06 / 47
p0 1.401e+05 ± 0.3005
140
139
138
137
136
135
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −11.27
Std Dev 28.13
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 48
Mean −4.979
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

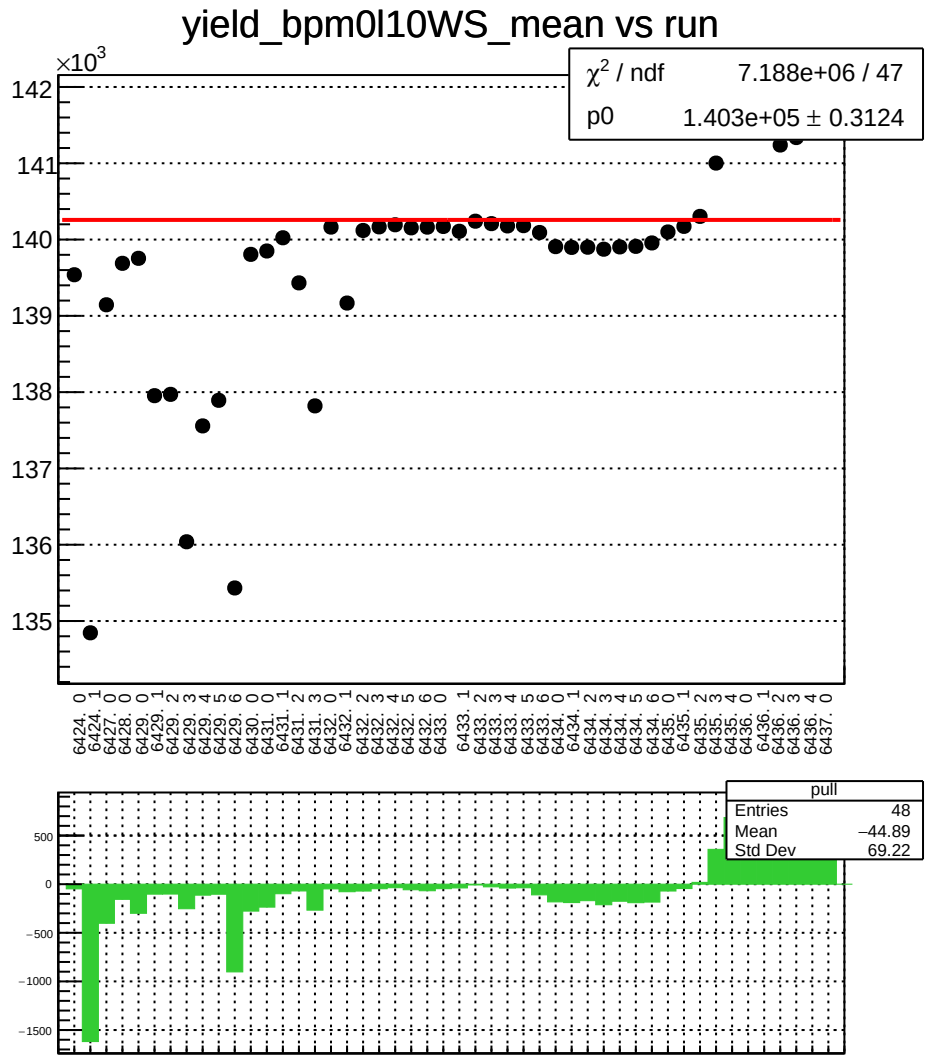

yield_bpm0l07WS_rms vs run
χ² / ndf 1.747e+05 / 47
p0 188.4 ± 0.2125
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

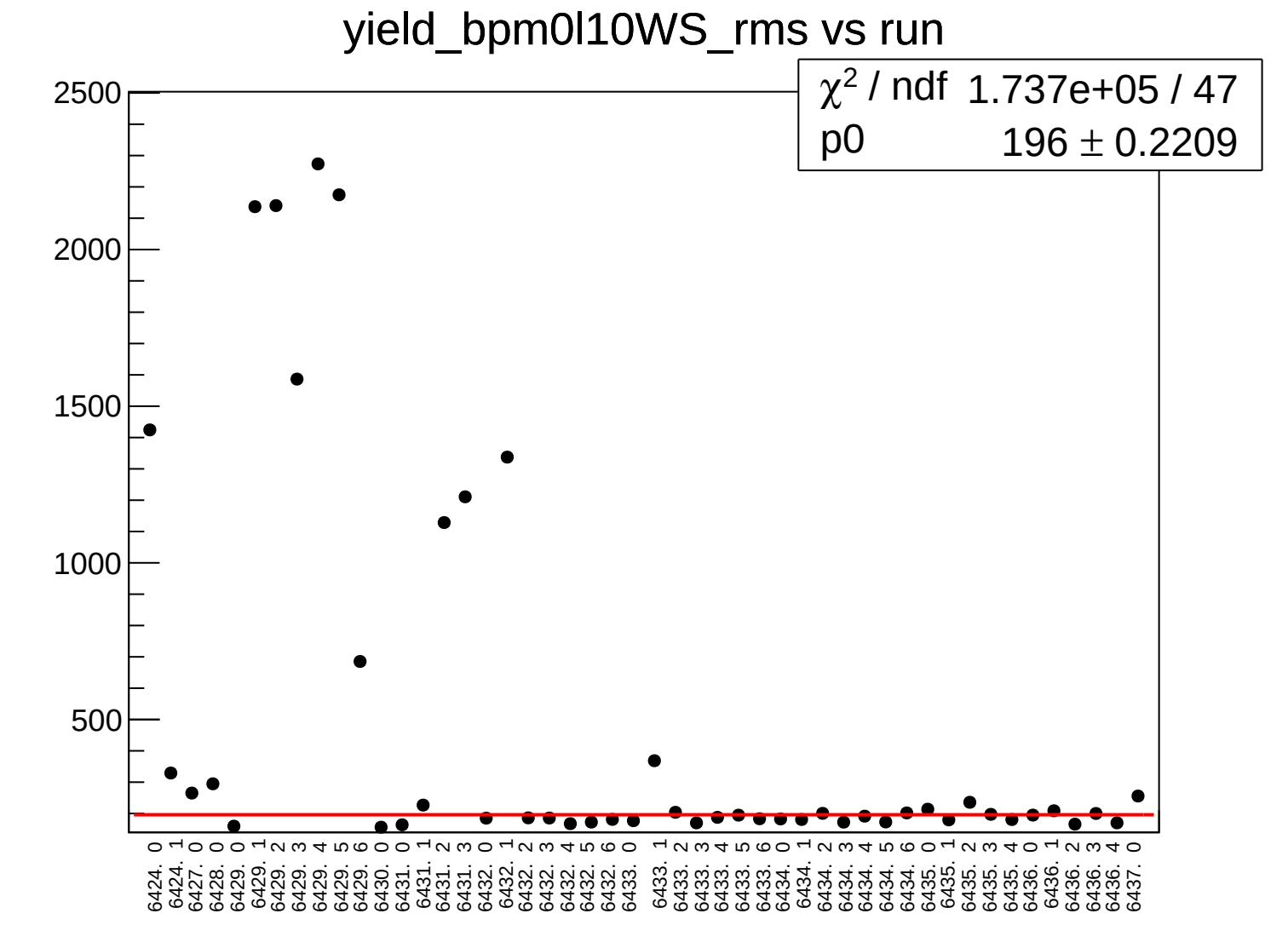

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.867e+06 / 47
p0 1.432e+05 ± 0.3025
143
142
141
140
139
138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −7.469
Std Dev 24.29
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0.5591
Std Dev 4.87
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

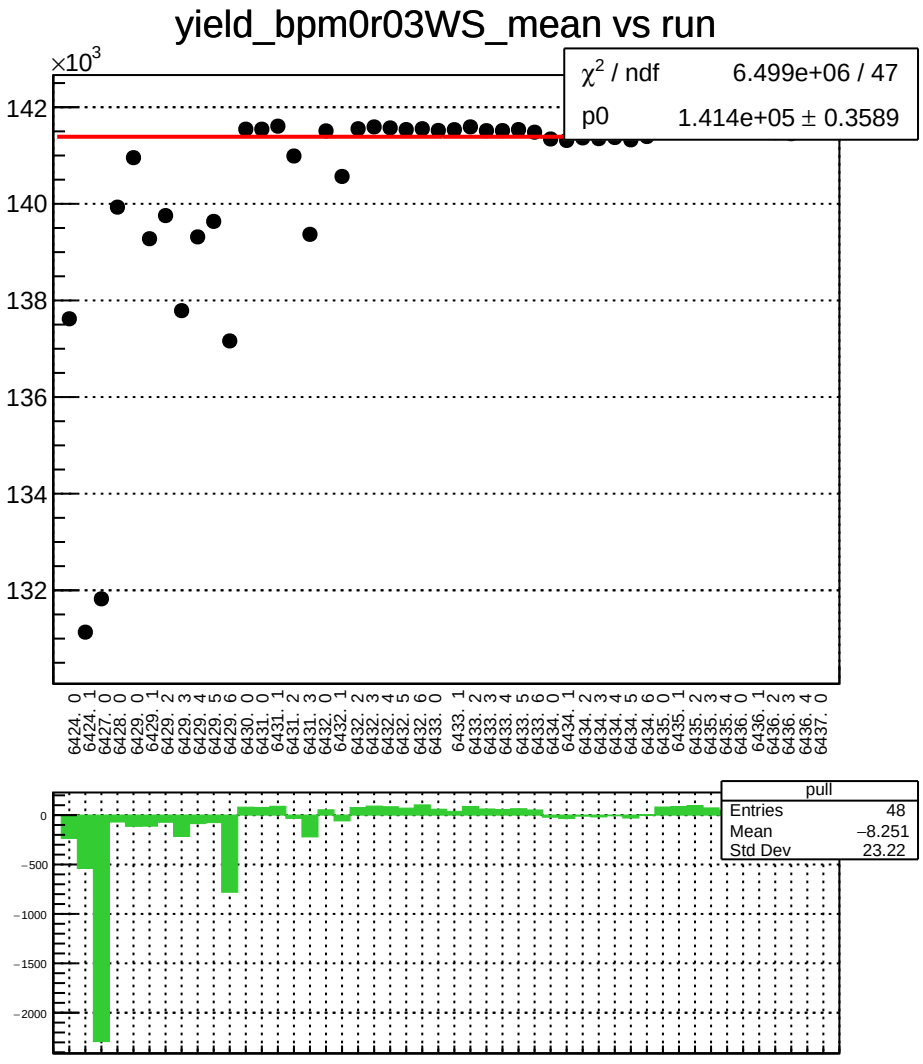

yield_bpm0l08WS_rms vs run
χ² / ndf 1.747e+05 / 47
p0 189.6 ± 0.2139
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

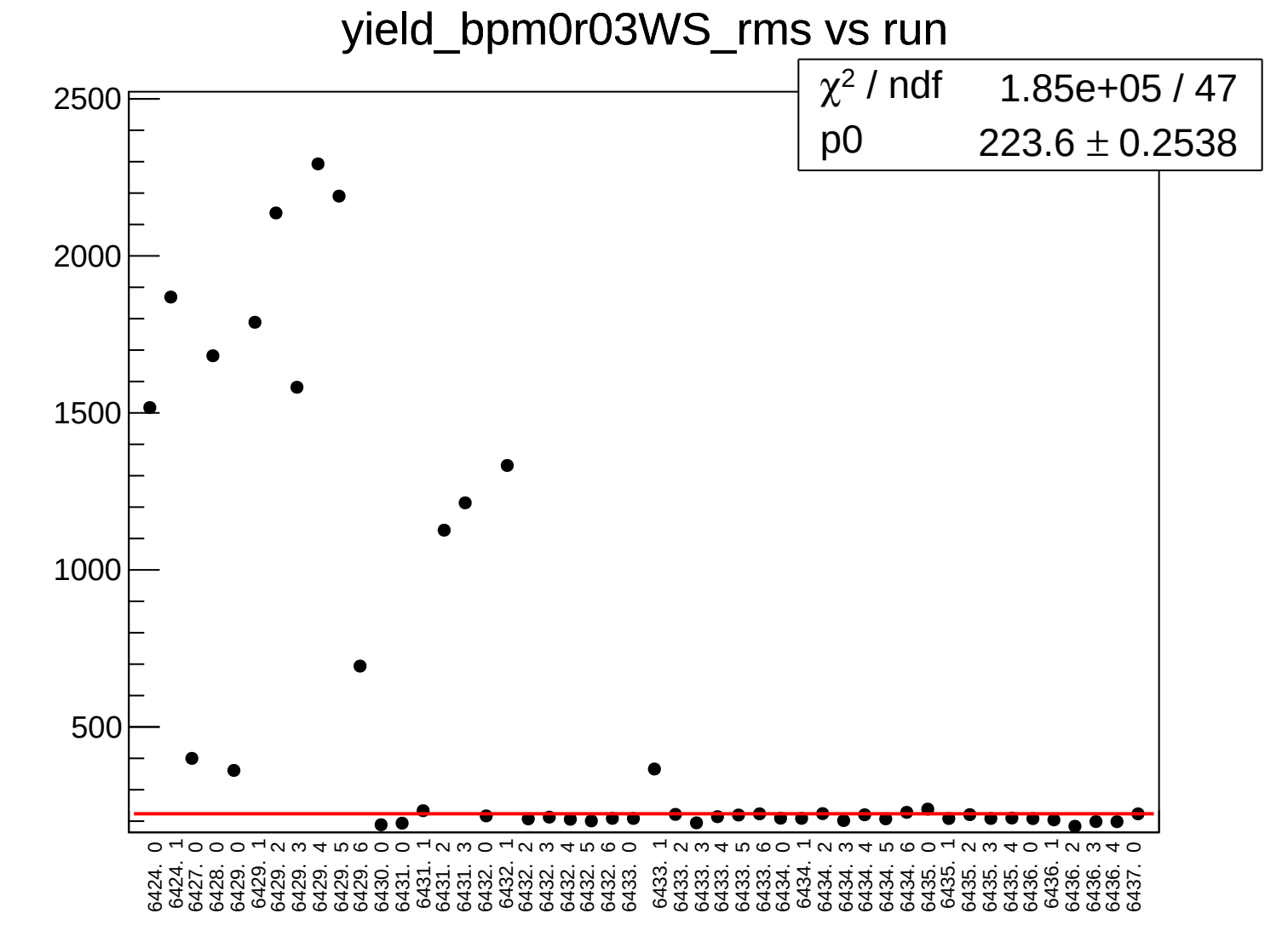

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 5.202e+06 / 47
p0 1.403e+05 ± 0.3206
141
140
139
138
137
136
135
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 42.49
Std Dev 29.25
400
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean 5.319
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

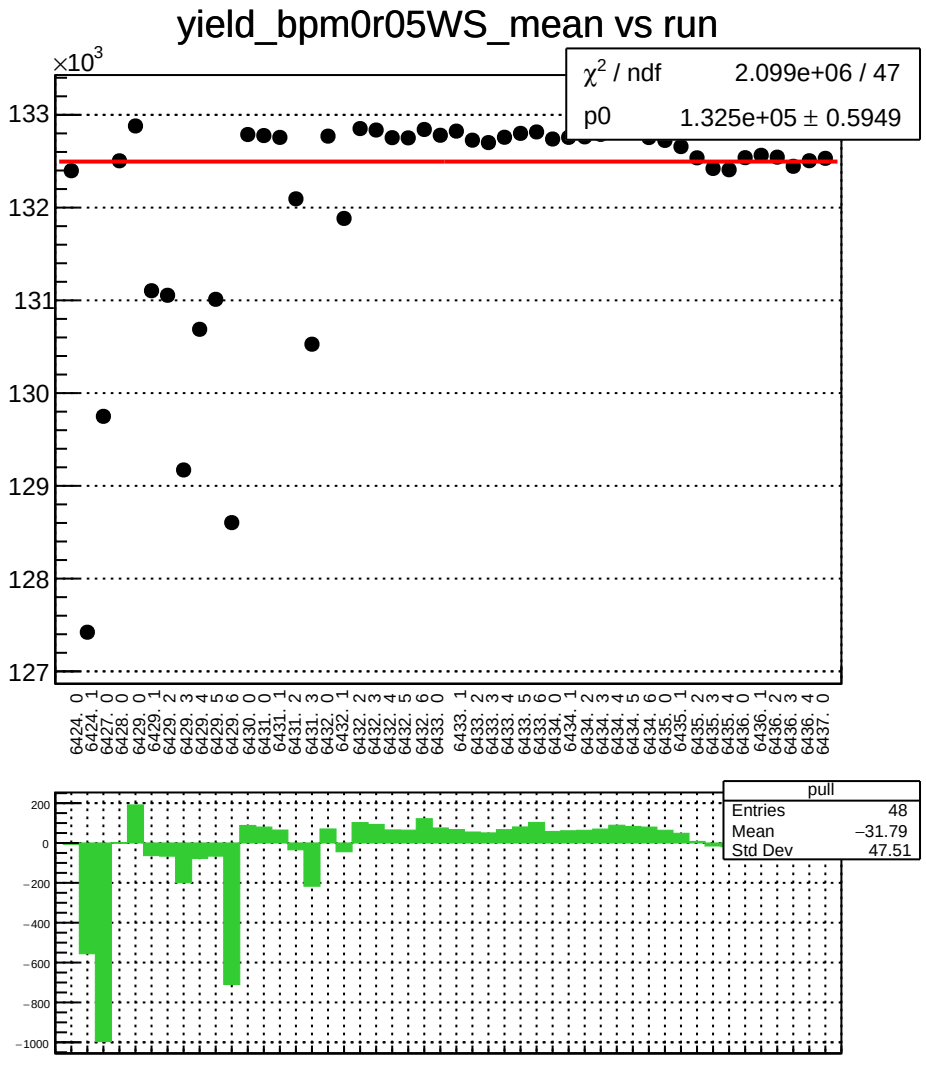

yield_bpm0l09WS_rms vs run
χ² / ndf 1.866e+05 / 47
p0 199.5 ± 0.2267
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

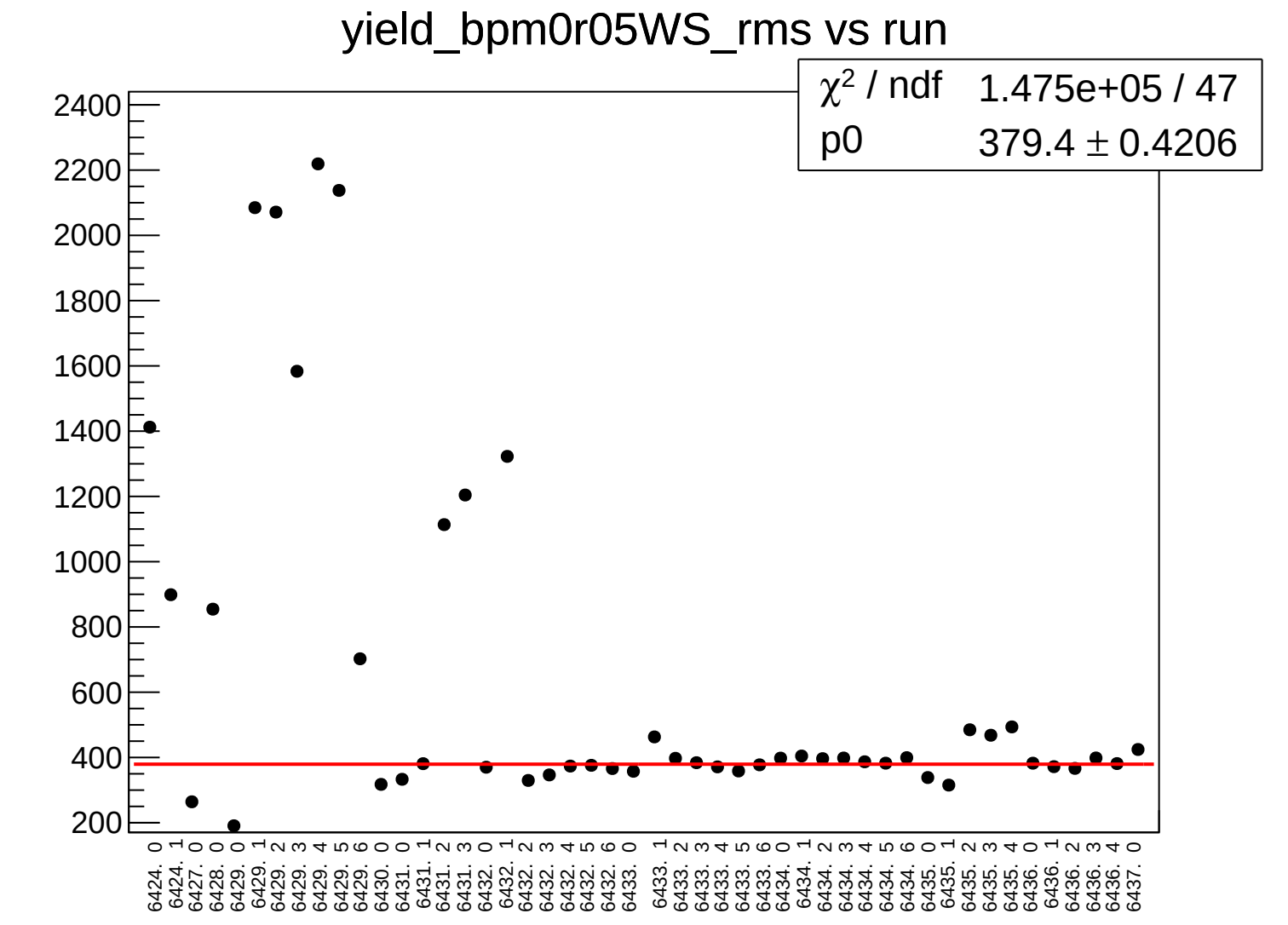

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 7.188e+06 / 47
p0 1.403e+05 ± 0.3124
142
141
140
139
138
137
136
135
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −44.89
Std Dev 69.22
500
0
−500
−1000
−1500
pull1D
Entries 48
Mean −7.824
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

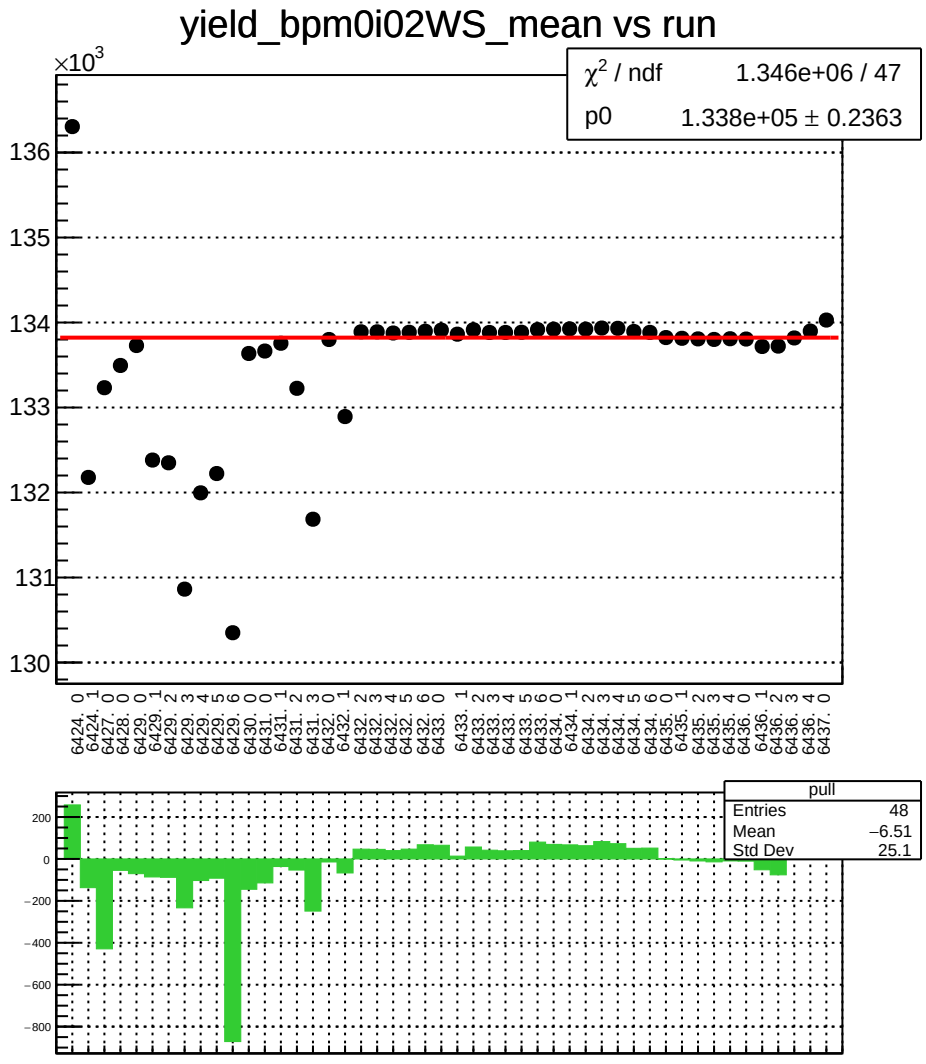

yield_bpm0l10WS_rms vs run
χ² / ndf 1.737e+05 / 47
p0 196 ± 0.2209
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

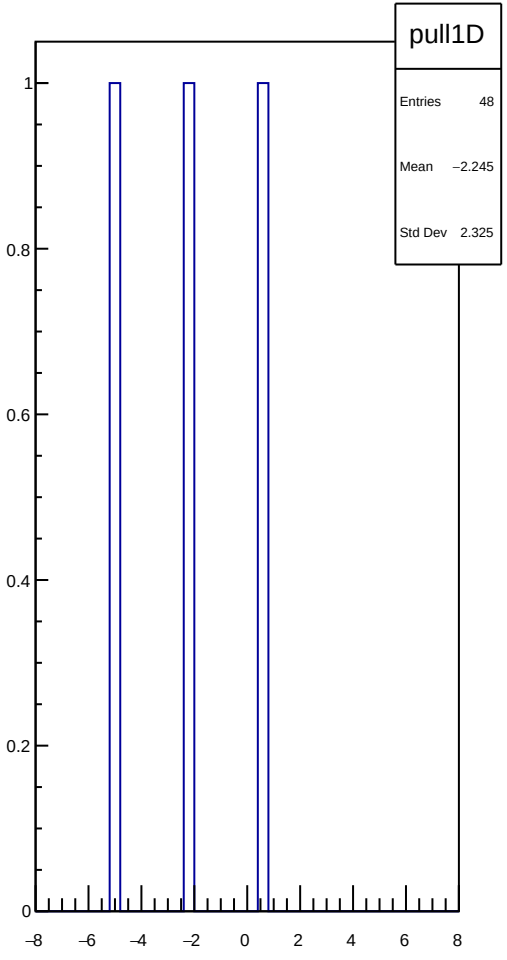

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 6.499e+06 / 47
p0 1.414e+05 ± 0.3589
142
140
138
136
134
132
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −8.251
Std Dev 23.22
0
−500
−1000
−1500
−2000
pull1D
Entries 48
Mean −2.18
Std Dev 4.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

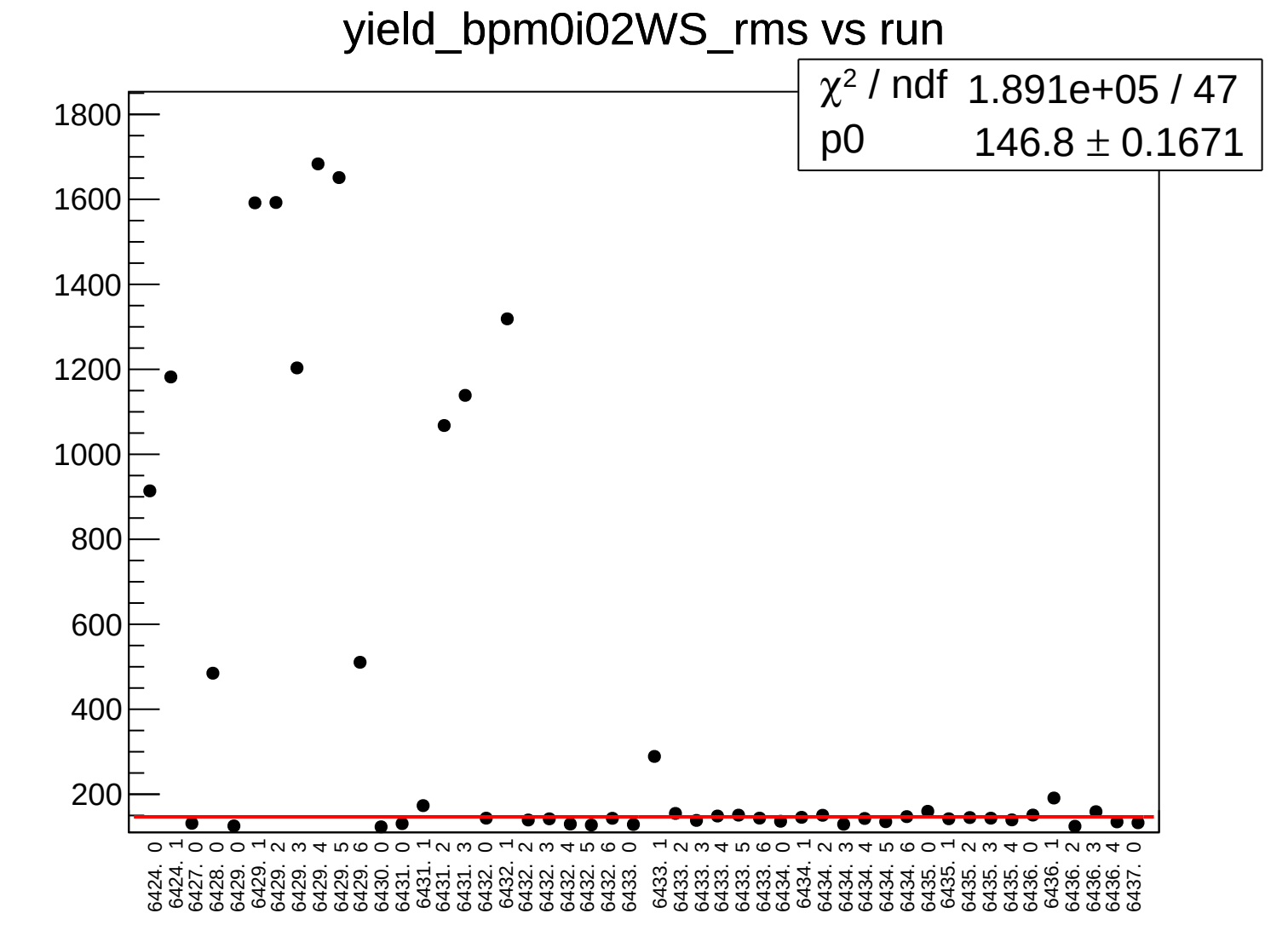

yield_bpm0r03WS_rms vs run
χ² / ndf 1.85e+05 / 47
p0 223.6 ± 0.2538
2500
2000
1500
1000
500
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

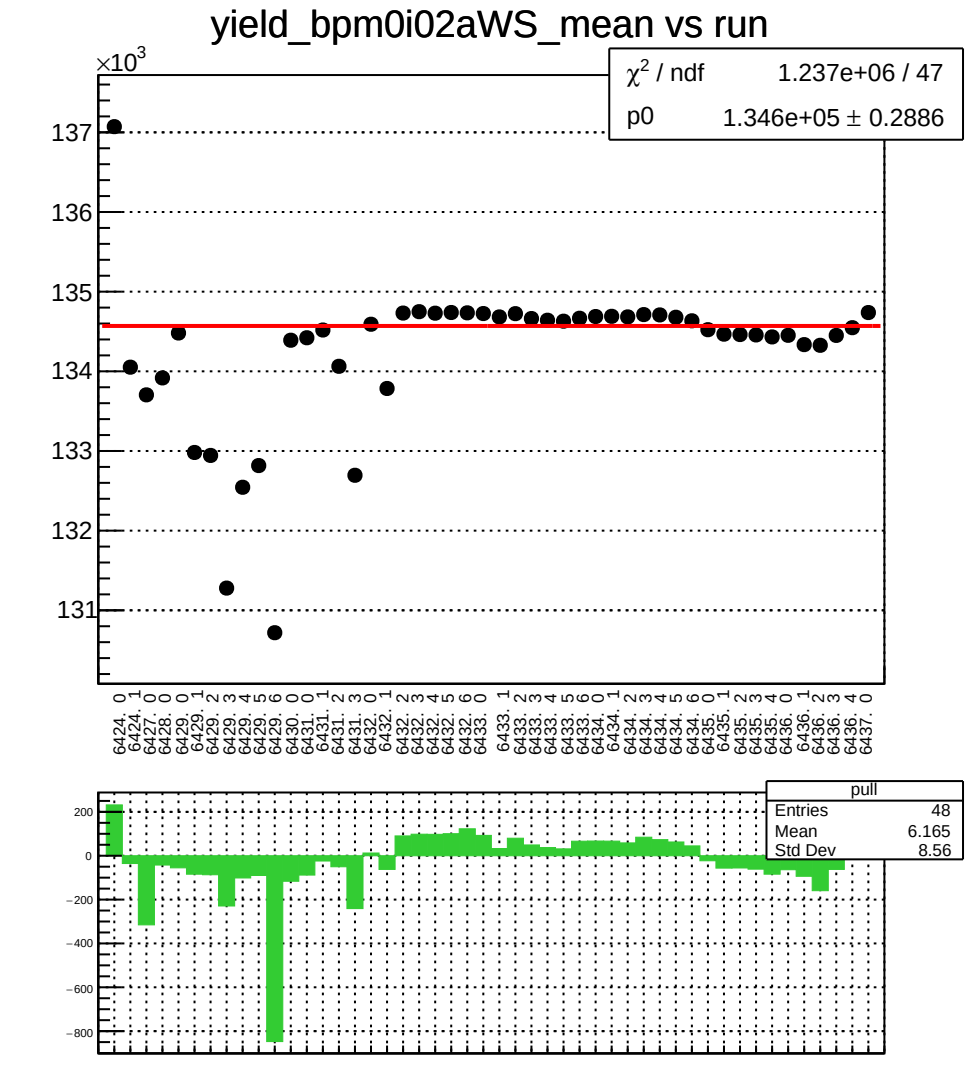

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 2.099e+06 / 47
p0 1.325e+05 ± 0.5949
133
132
131
130
129
128
127
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −31.79
Std Dev 47.51
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 1.223
Std Dev 5.226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

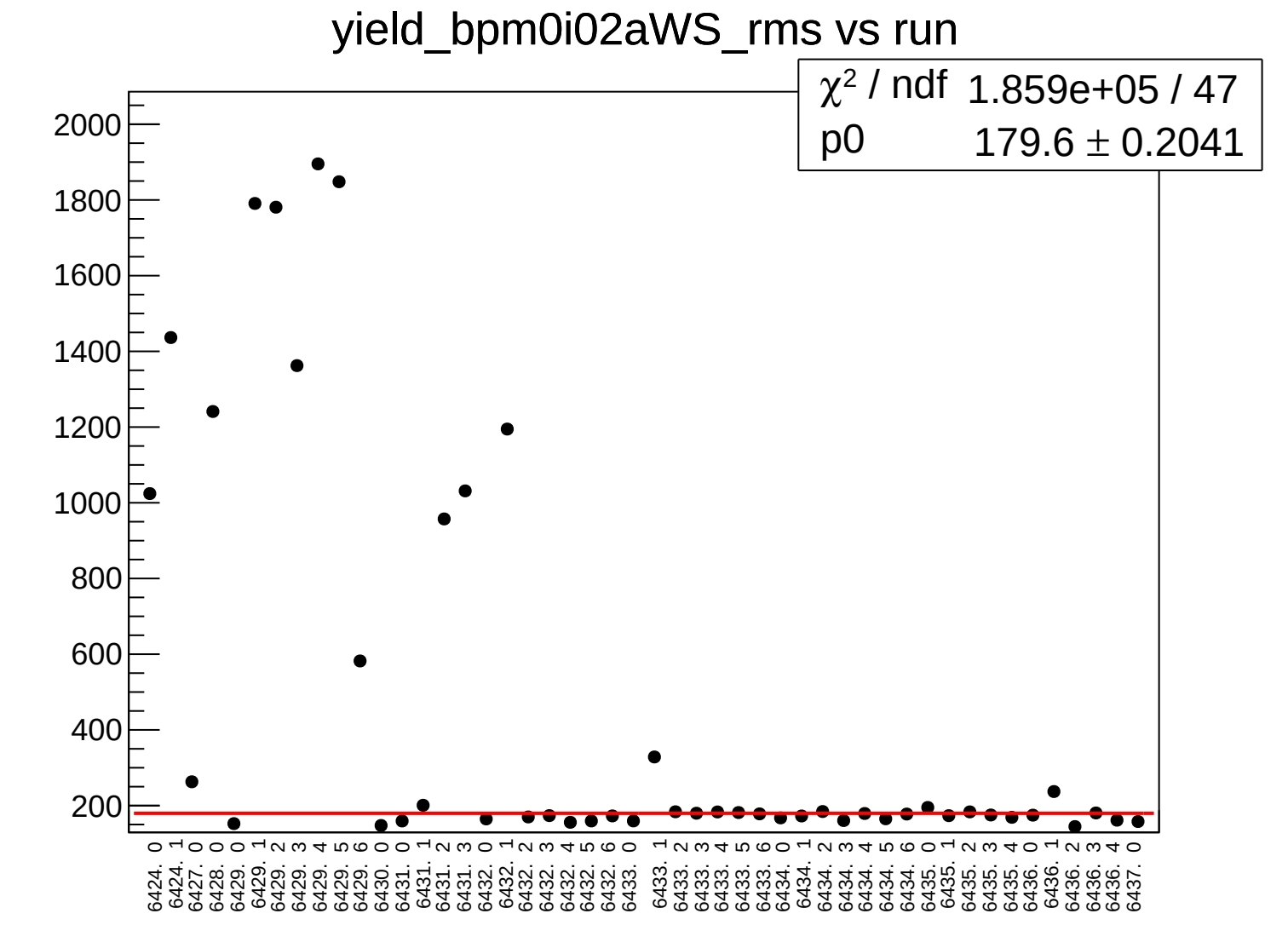

yield_bpm0r05WS_rms vs run
χ² / ndf 1.475e+05 / 47
p0 379.4 ± 0.4206
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

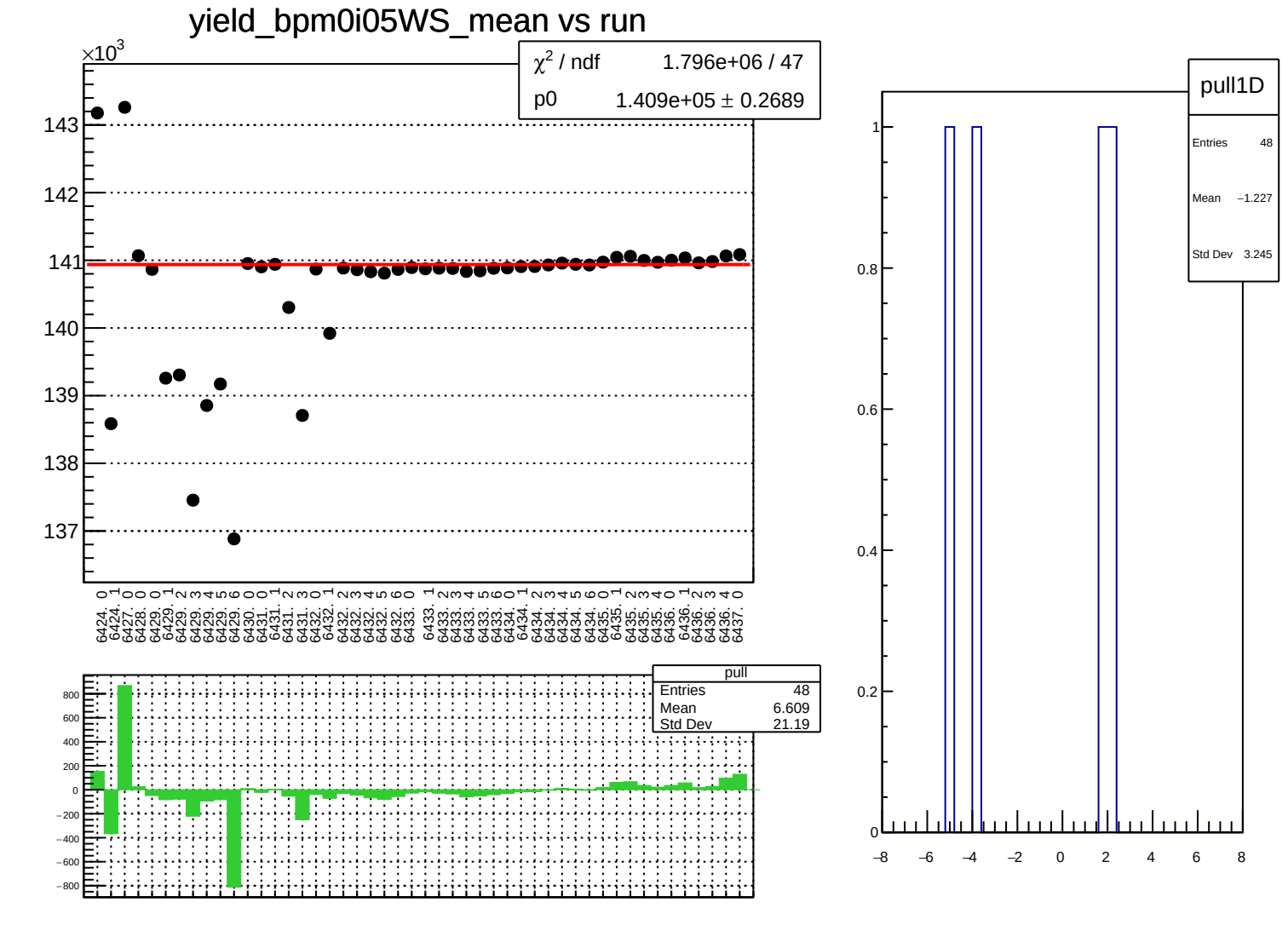

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.346e+06 / 47
p0 1.338e+05 ± 0.2363
136
135
134
133
132
131
130
pull
Entries 48
Mean −6.51
Std Dev 25.1
200
0
−200
−400
−600
−800

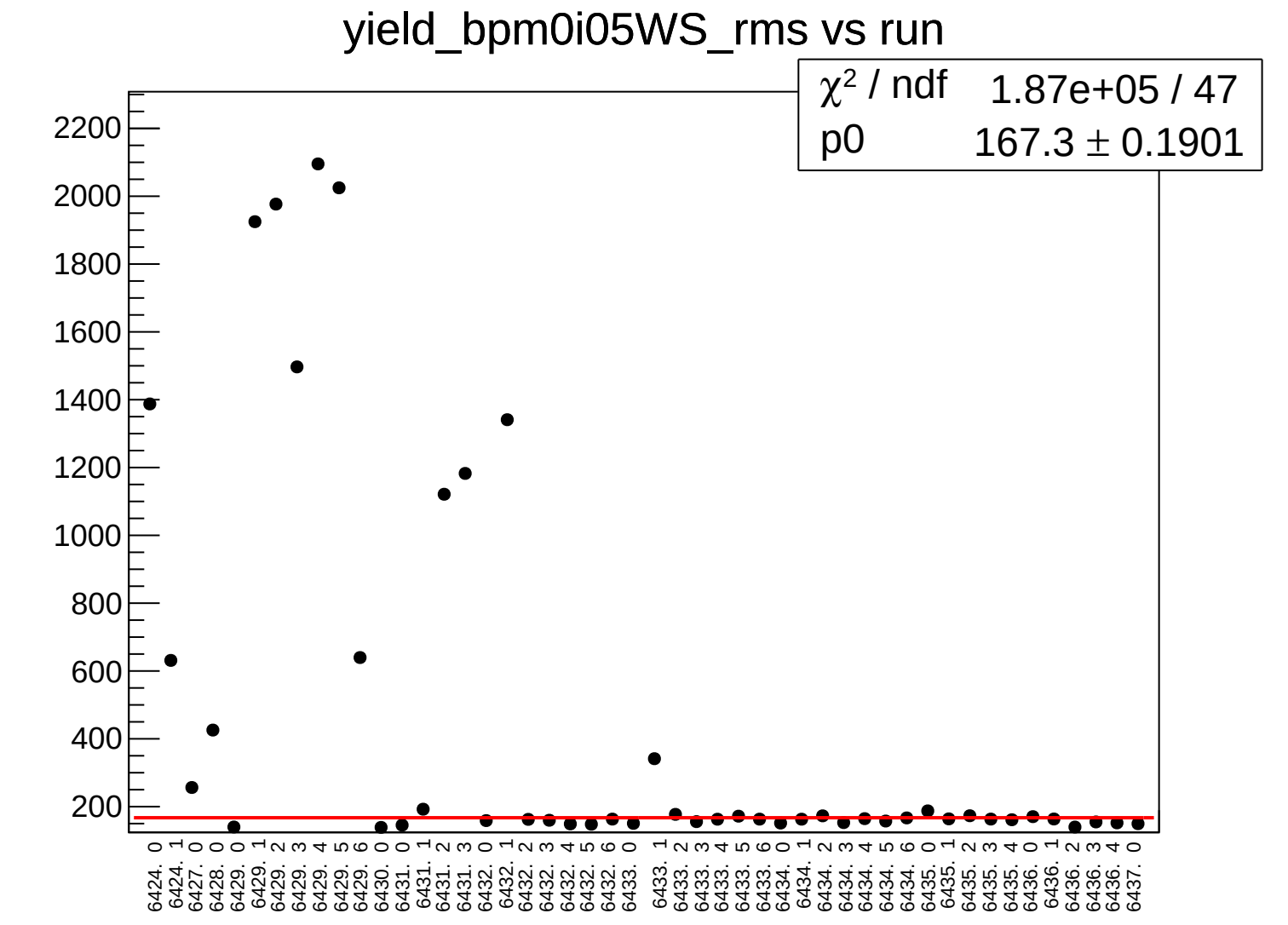

pull1D
Entries 48
Mean −2.245
Std Dev 2.325
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

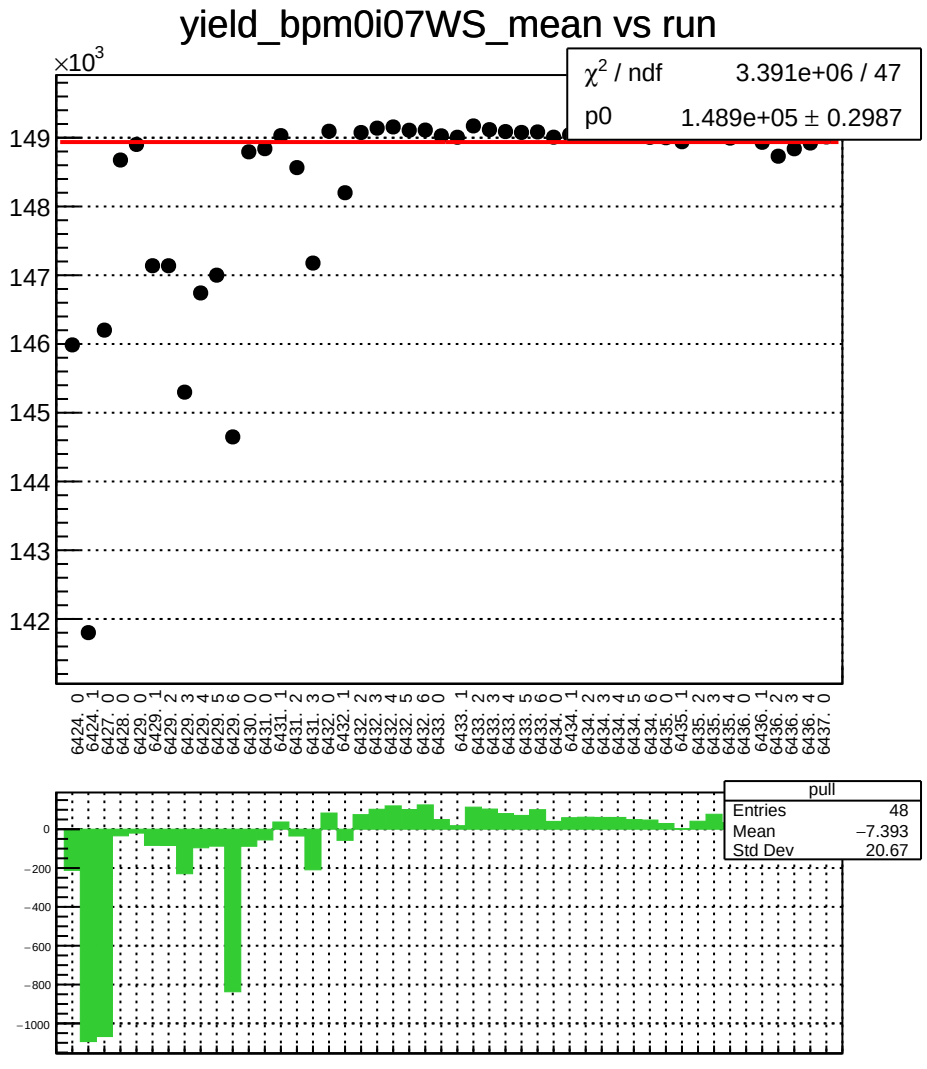

yield_bpm0i02WS_rms vs run
χ² / ndf 1.891e+05 / 47
p0 146.8 ± 0.1671
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

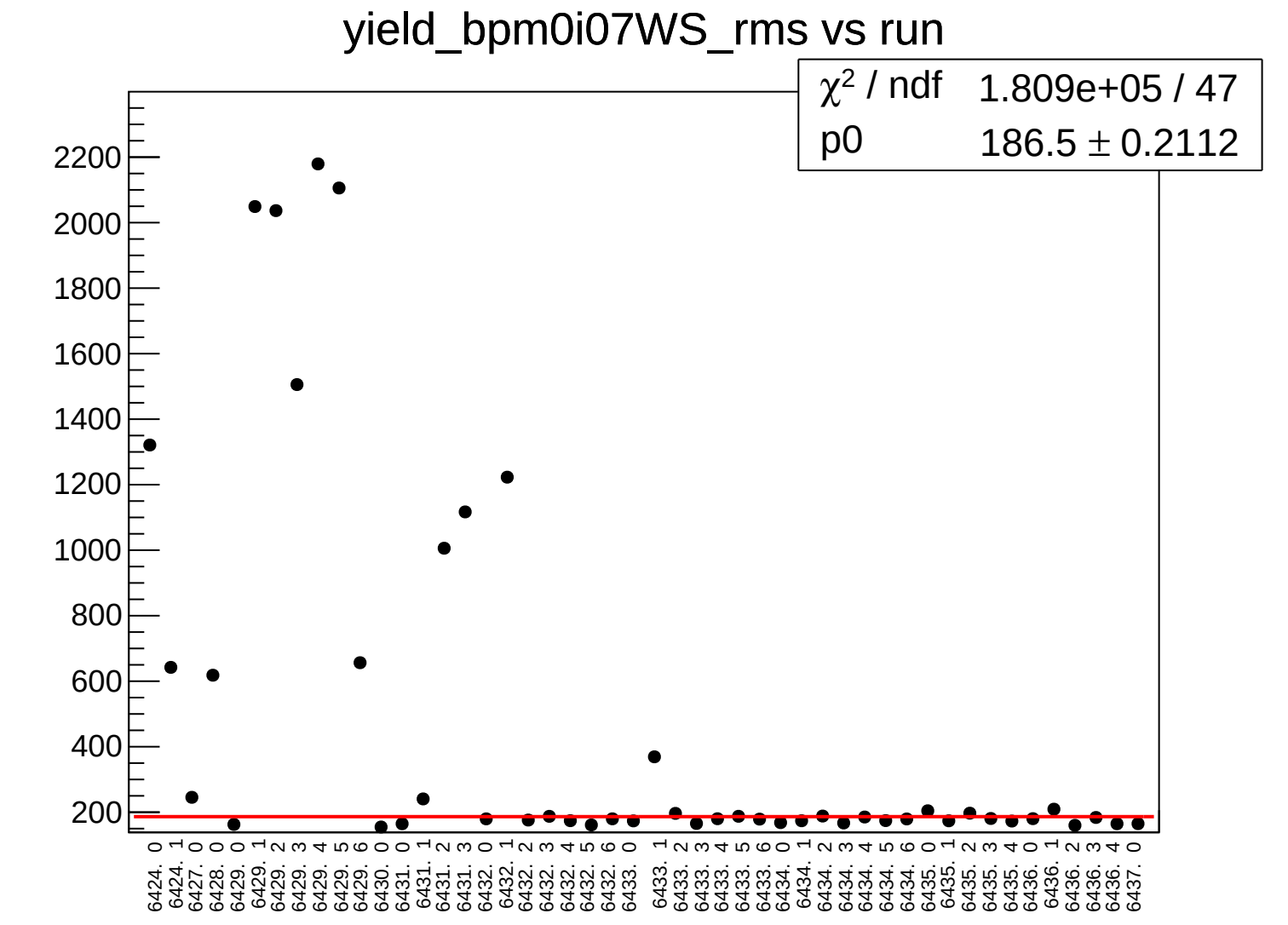

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 1.237e+06 / 47
p0 1.346e+05 ± 0.2886
137
136
135
134
133
132
131
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 6.165
Std Dev 8.56
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

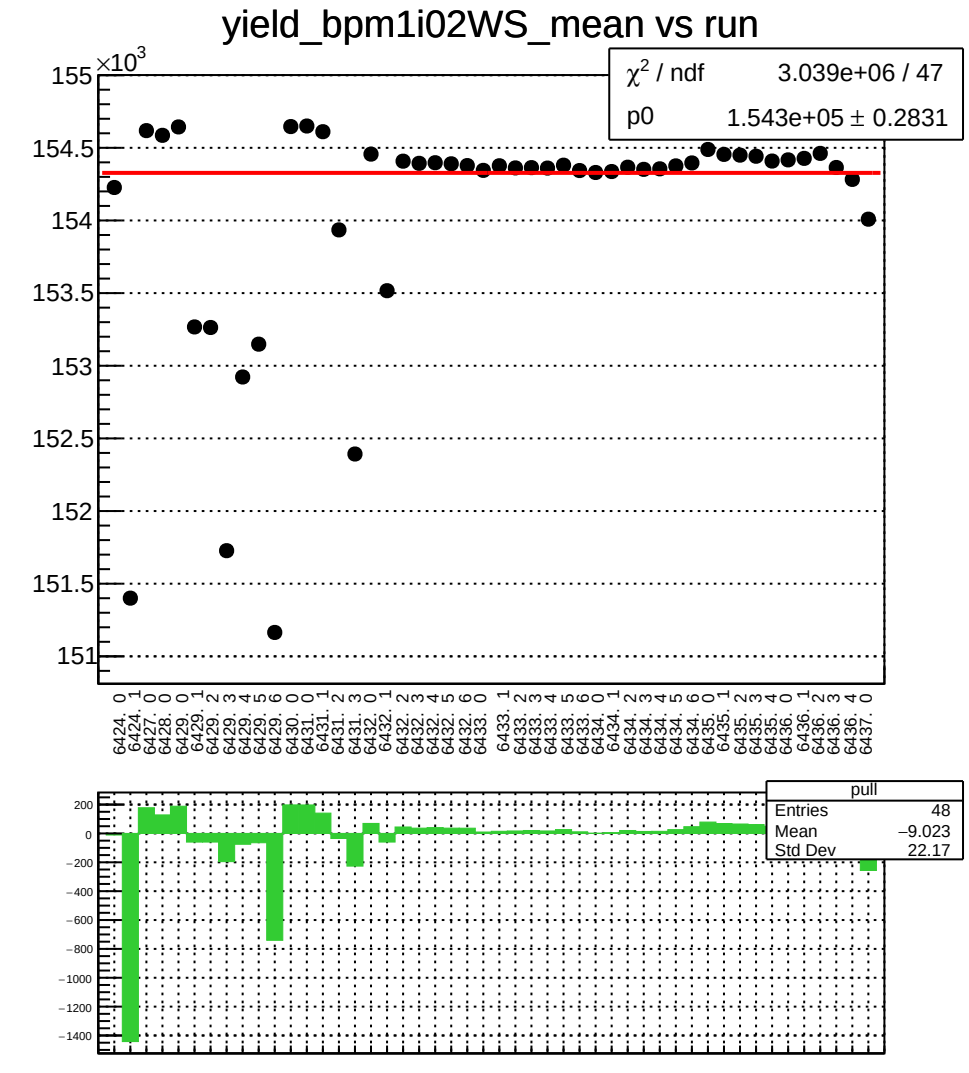

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.859e+05 / 47
p0 179.6 ± 0.2041
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

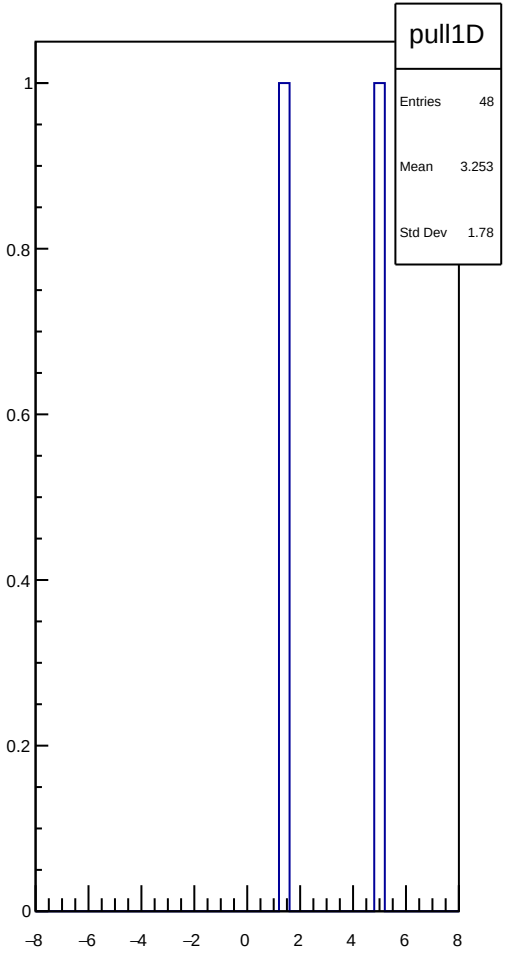

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.796e+06 / 47
p0 1.409e+05 ± 0.2689
143
142
141
140
139
138
137
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 6.609
Std Dev 21.19
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean −1.227
Std Dev 3.245
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

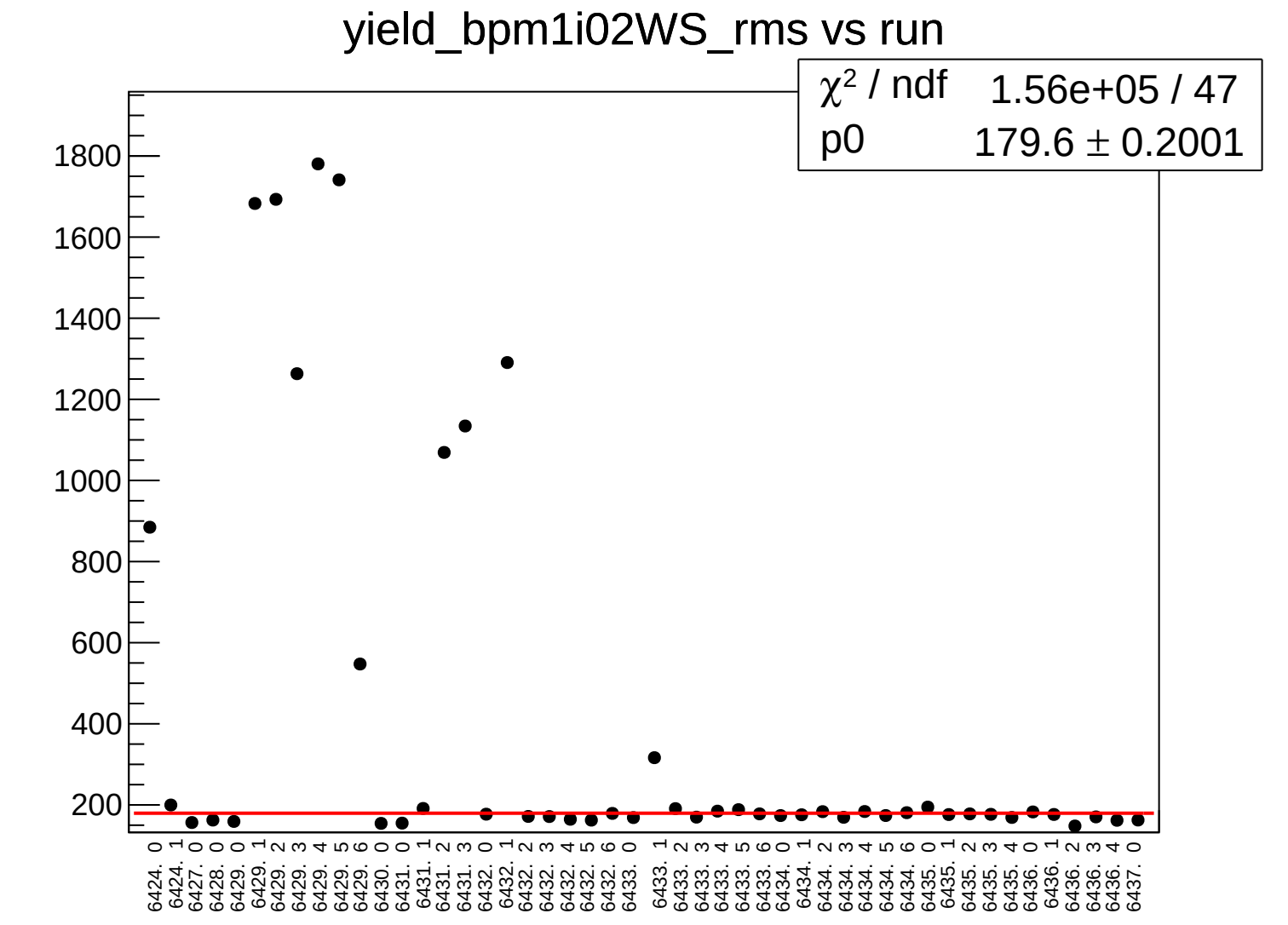

yield_bpm0i05WS_rms vs run
χ² / ndf 1.87e+05 / 47
p0 167.3 ± 0.1901
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

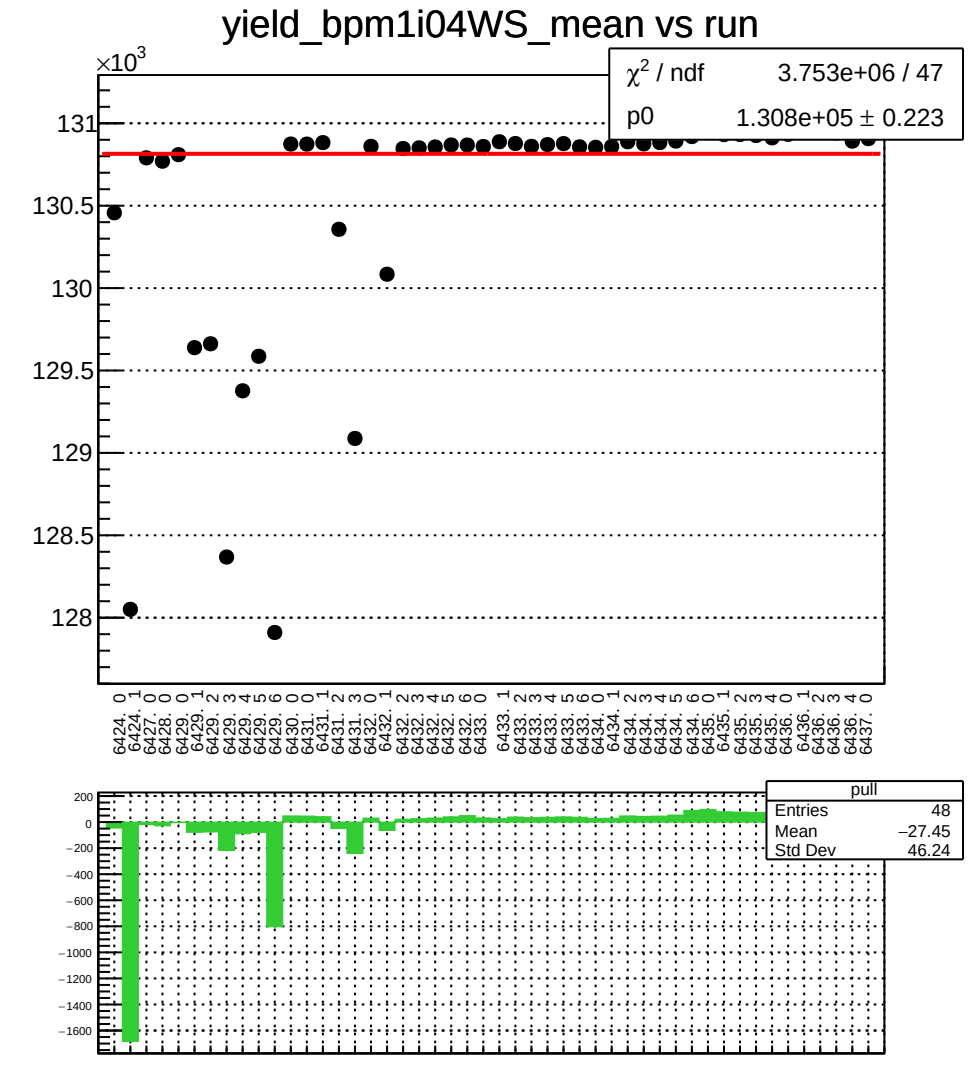

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.391e+06 / 47
p0 1.489e+05 ± 0.2987
149
148
147
146
145
144
143
142
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −7.393
Std Dev 20.67
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 0.5851
Std Dev 2.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

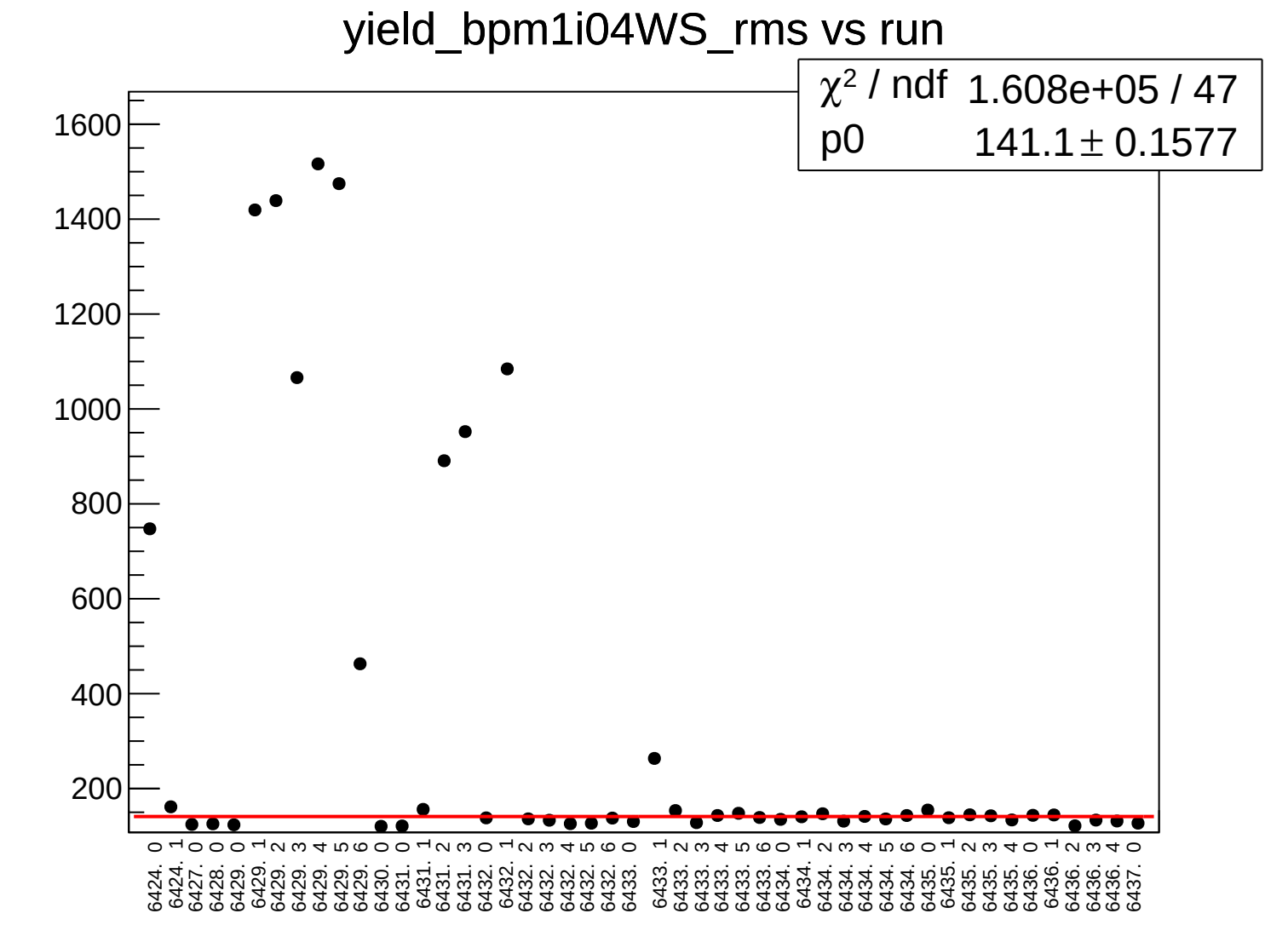

yield_bpm0i07WS_rms vs run
χ² / ndf 1.809e+05 / 47
p0 186.5 ± 0.2112
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

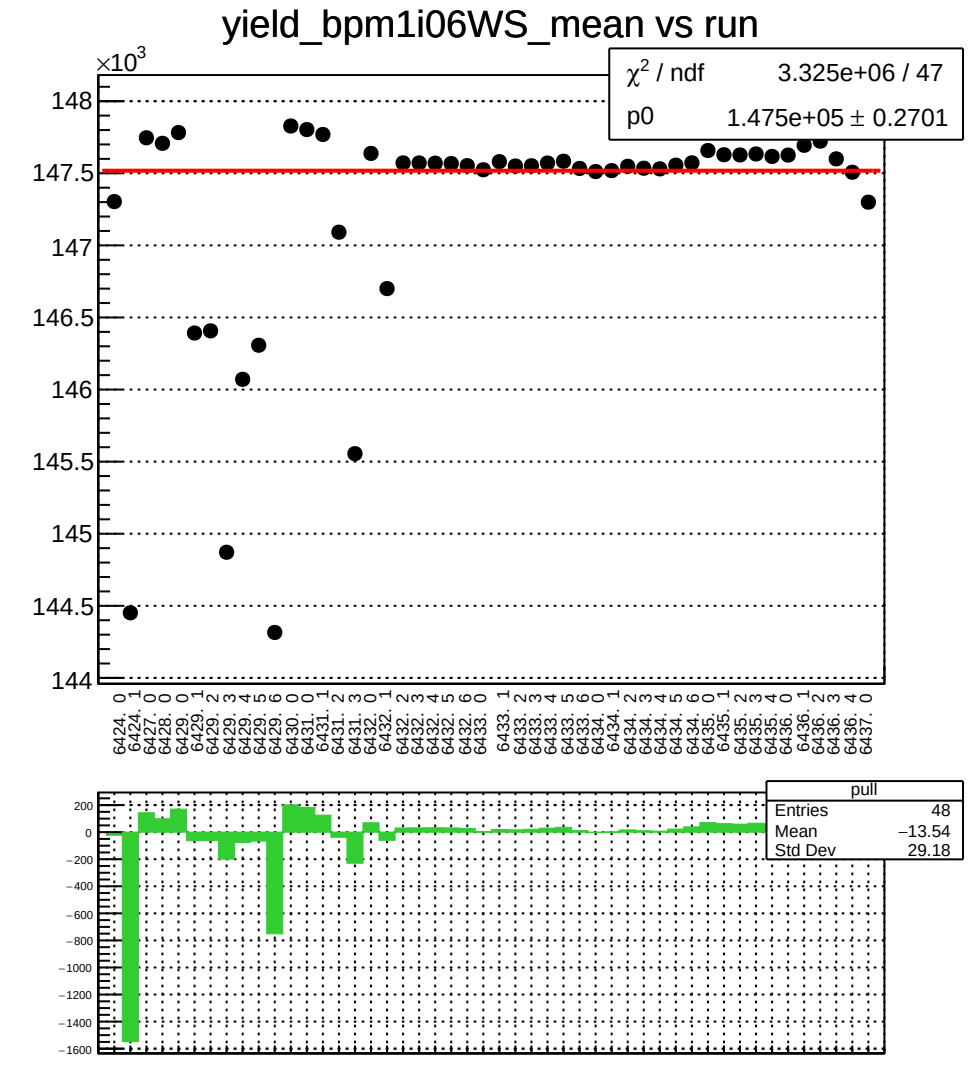

yield_bpm1i02WS_mean vs run
×10^3
155
154.5
154
153.5
153
152.5
152
151.5
151
χ² / ndf 3.039e+06 / 47
p0 1.543e+05 ± 0.2831
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 48
Mean −9.023
Std Dev 22.17

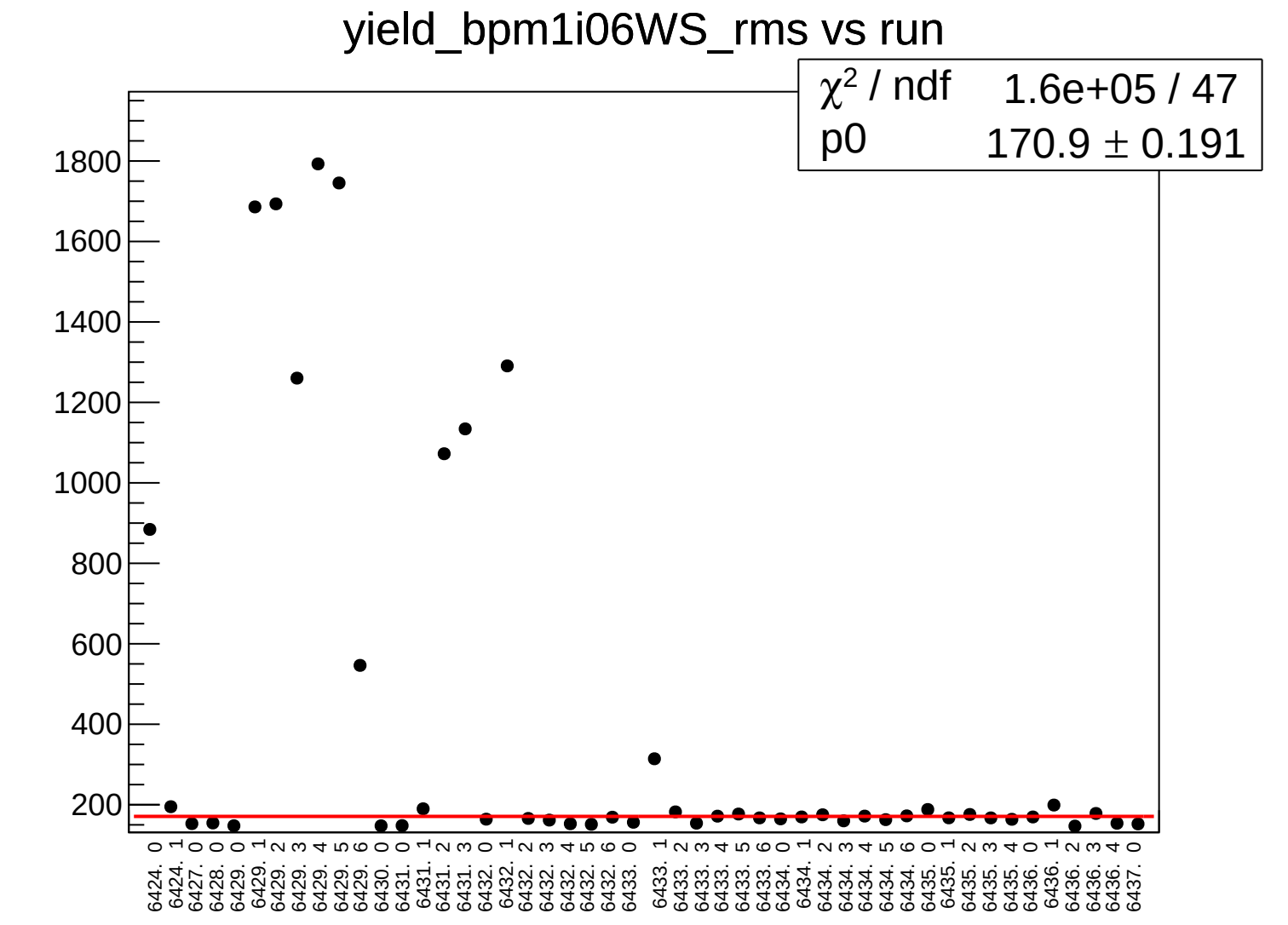

pull1D
Entries 48
Mean 3.253
Std Dev 1.78
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

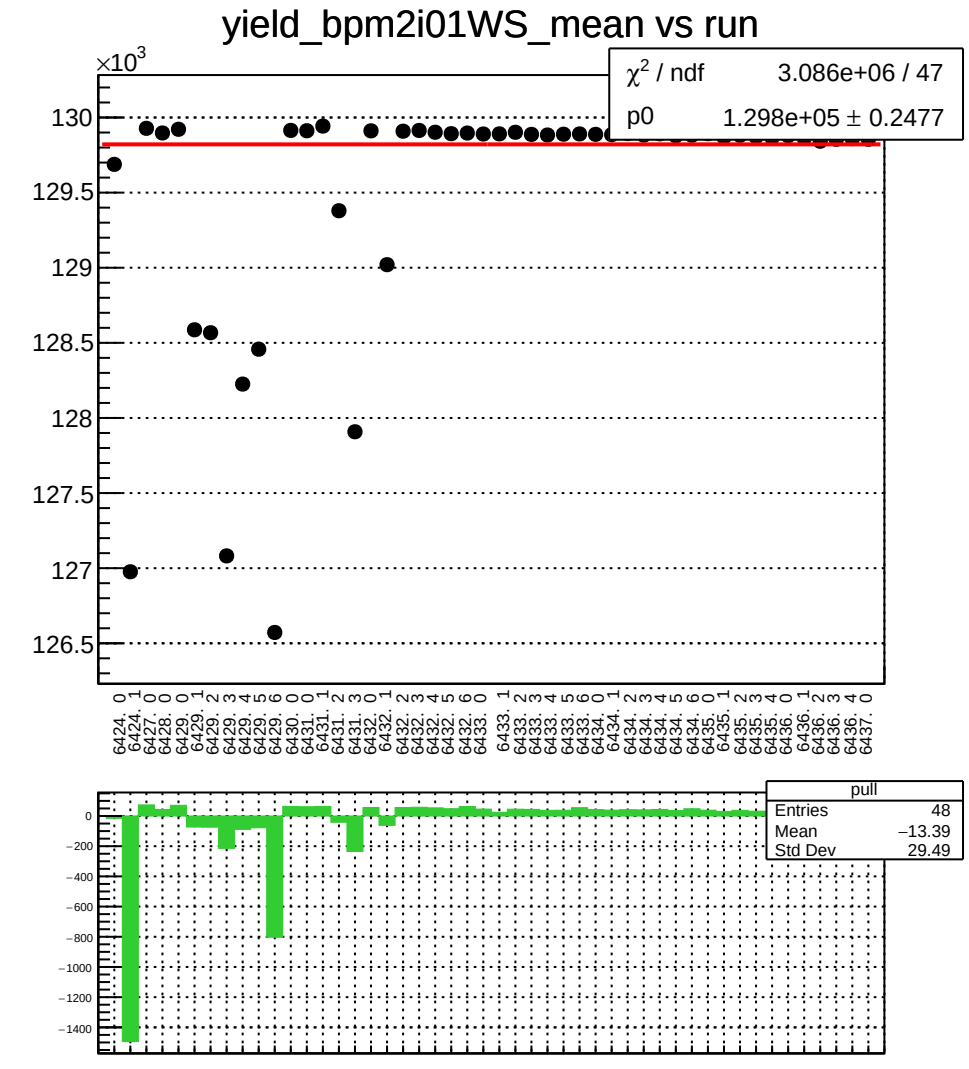

yield_bpm1i02WS_rms vs run
χ² / ndf 1.56e+05 / 47
p0 179.6 ± 0.2001
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

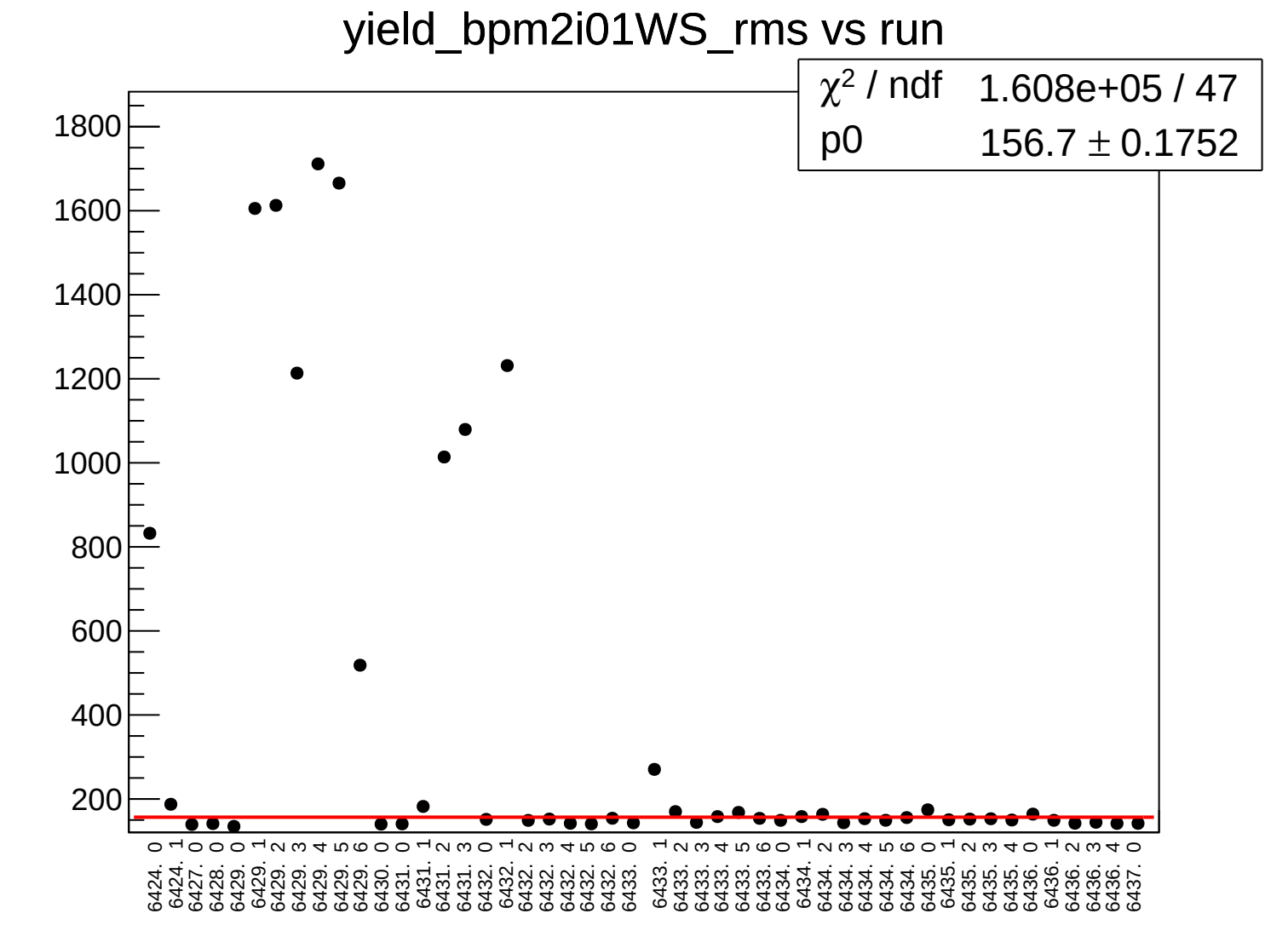

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.753e+06 / 47
p0 1.308e+05 ± 0.223
131
130.5
130
129.5
129
128.5
128
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −27.45
Std Dev 46.24
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 48
Mean −3.954
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

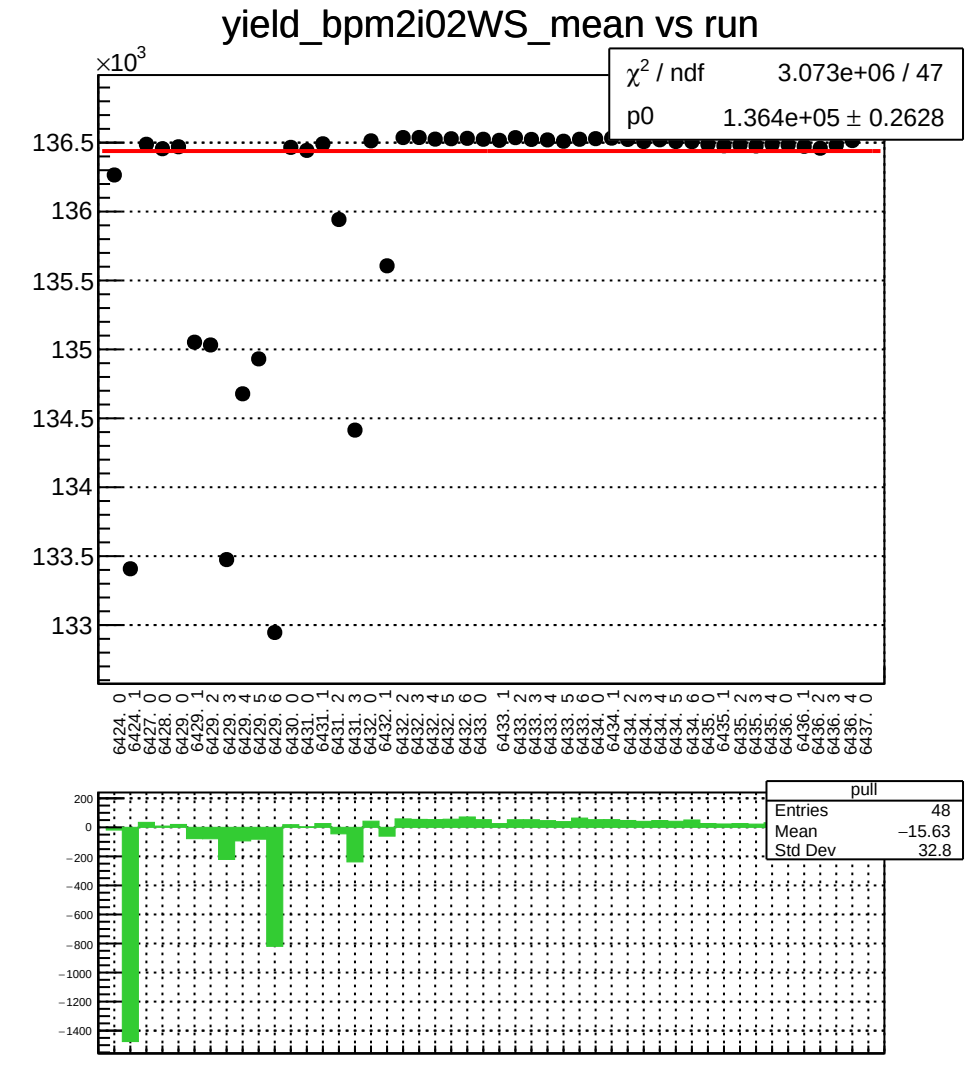

yield_bpm1i04WS_rms vs run
χ² / ndf 1.608e+05 / 47
p0 141.1 ± 0.1577
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

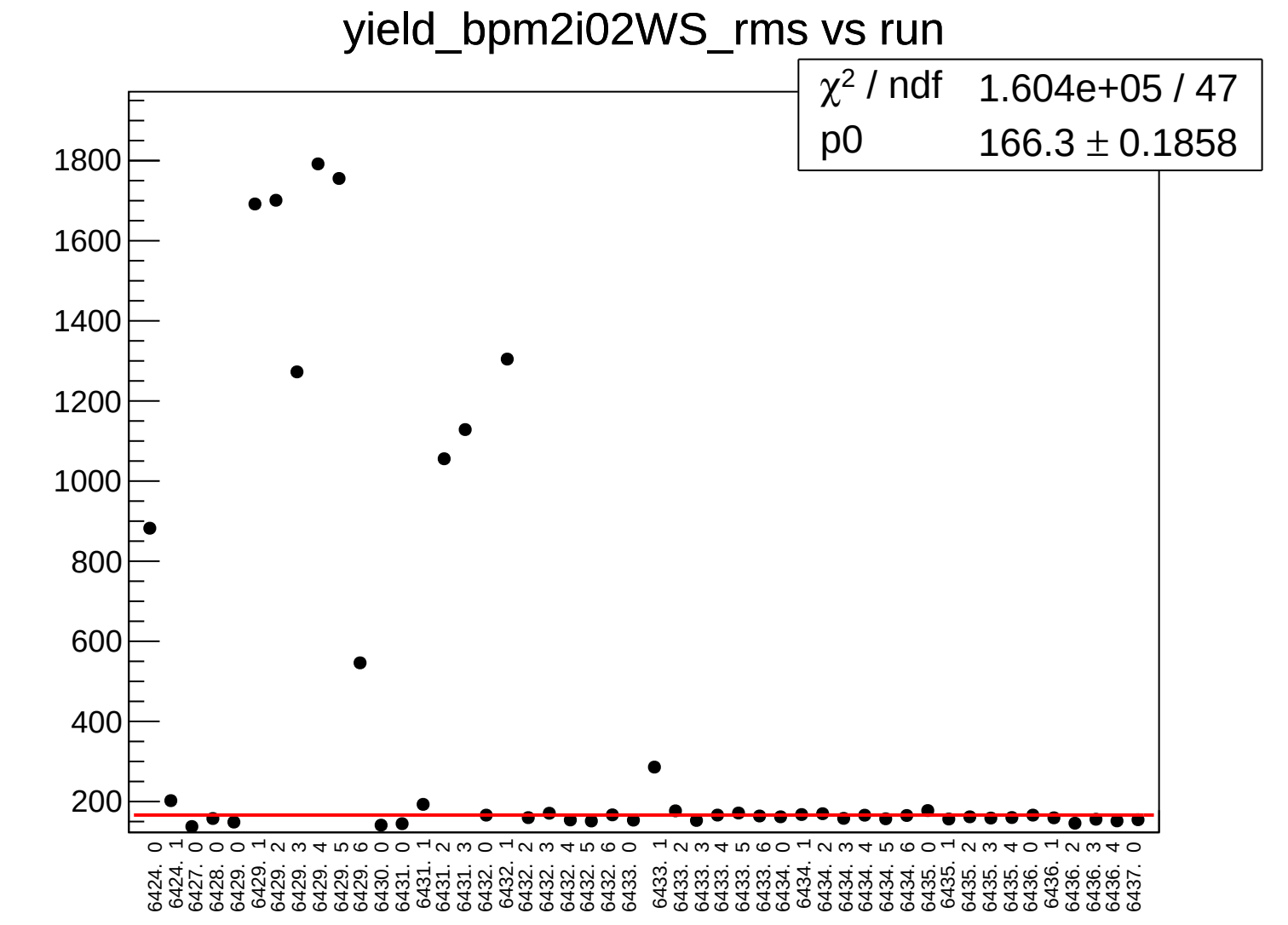

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 3.325e+06 / 47
p0 1.475e+05 ± 0.2701
148
147.5
147
146.5
146
145.5
145
144.5
144
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −13.54
Std Dev 29.18
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 48
Mean 2.019
Std Dev 3.947
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

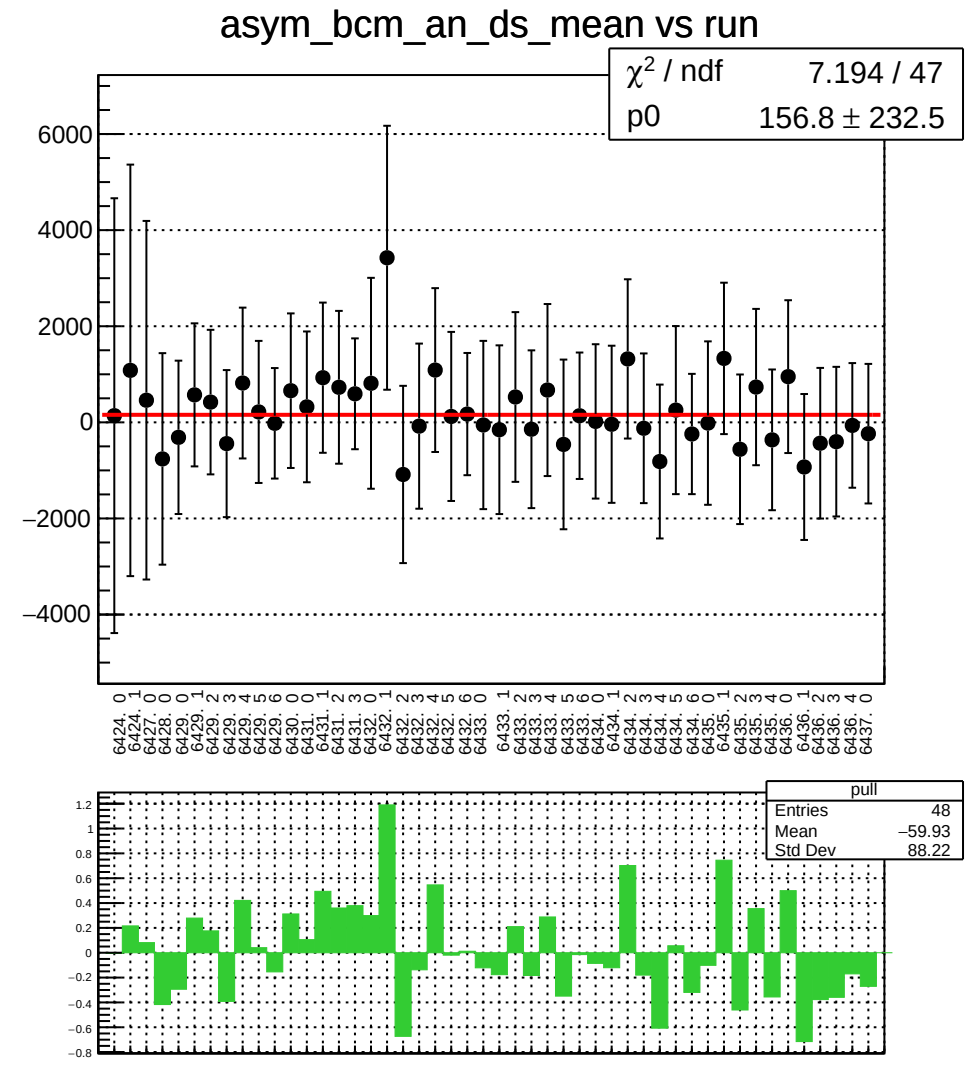

yield_bpm1i06WS_rms vs run
χ² / ndf 1.6e+05 / 47
p0 170.9 ± 0.191
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

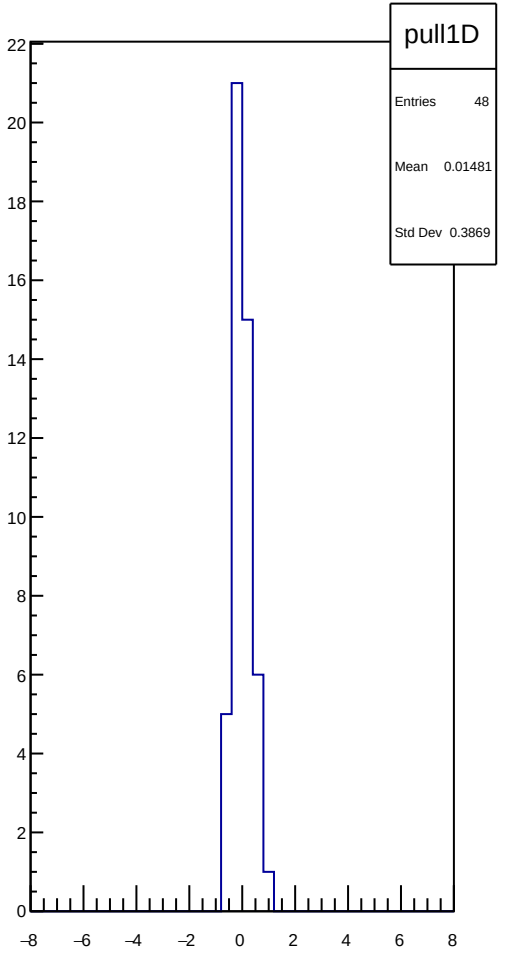

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.086e+06 / 47
p0 1.298e+05 ± 0.2477
130
129.5
129
128.5
128
127.5
127
126.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −13.39
Std Dev 29.49
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

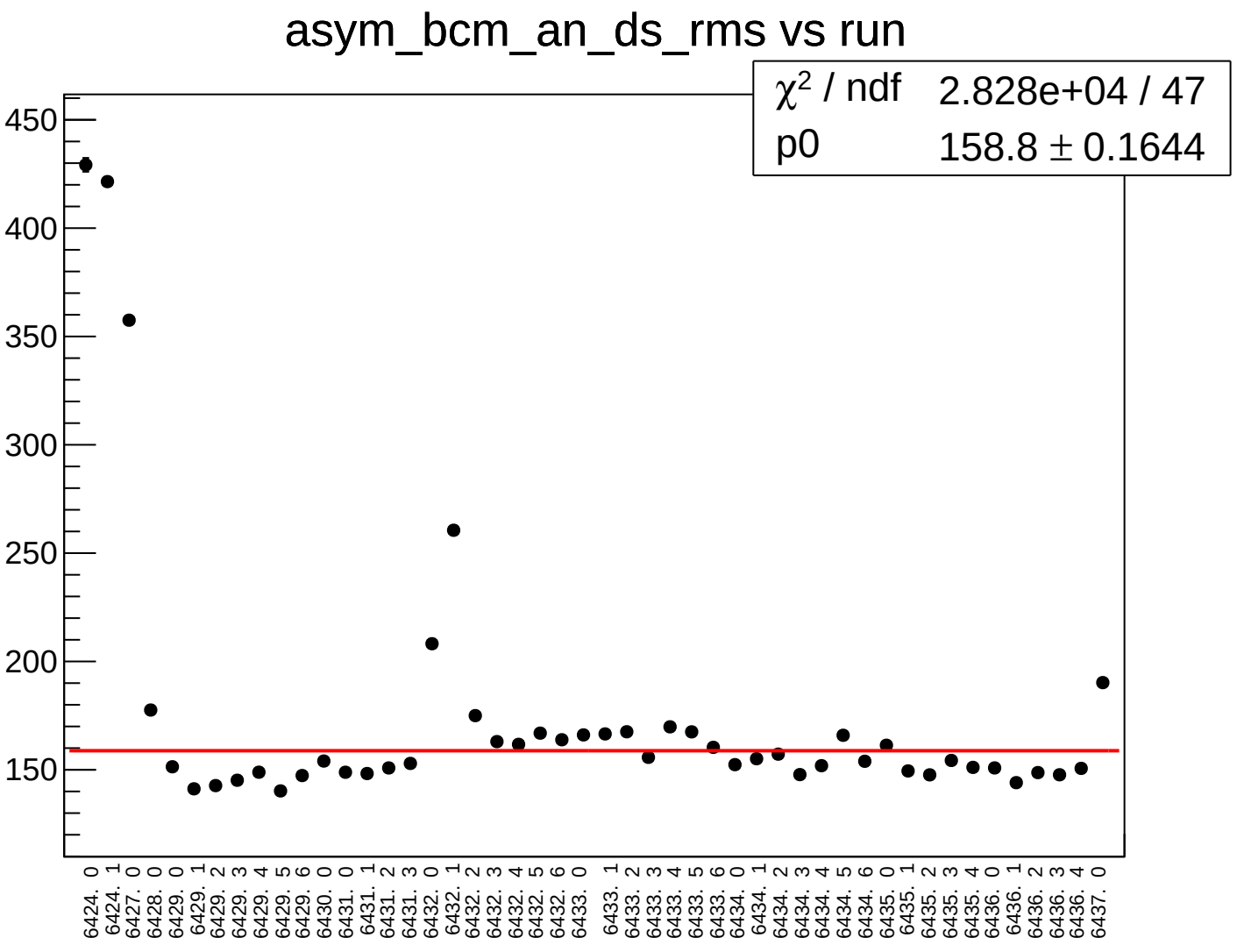

yield_bpm2i01WS_rms vs run
χ² / ndf 1.608e+05 / 47
p0 156.7 ± 0.1752
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

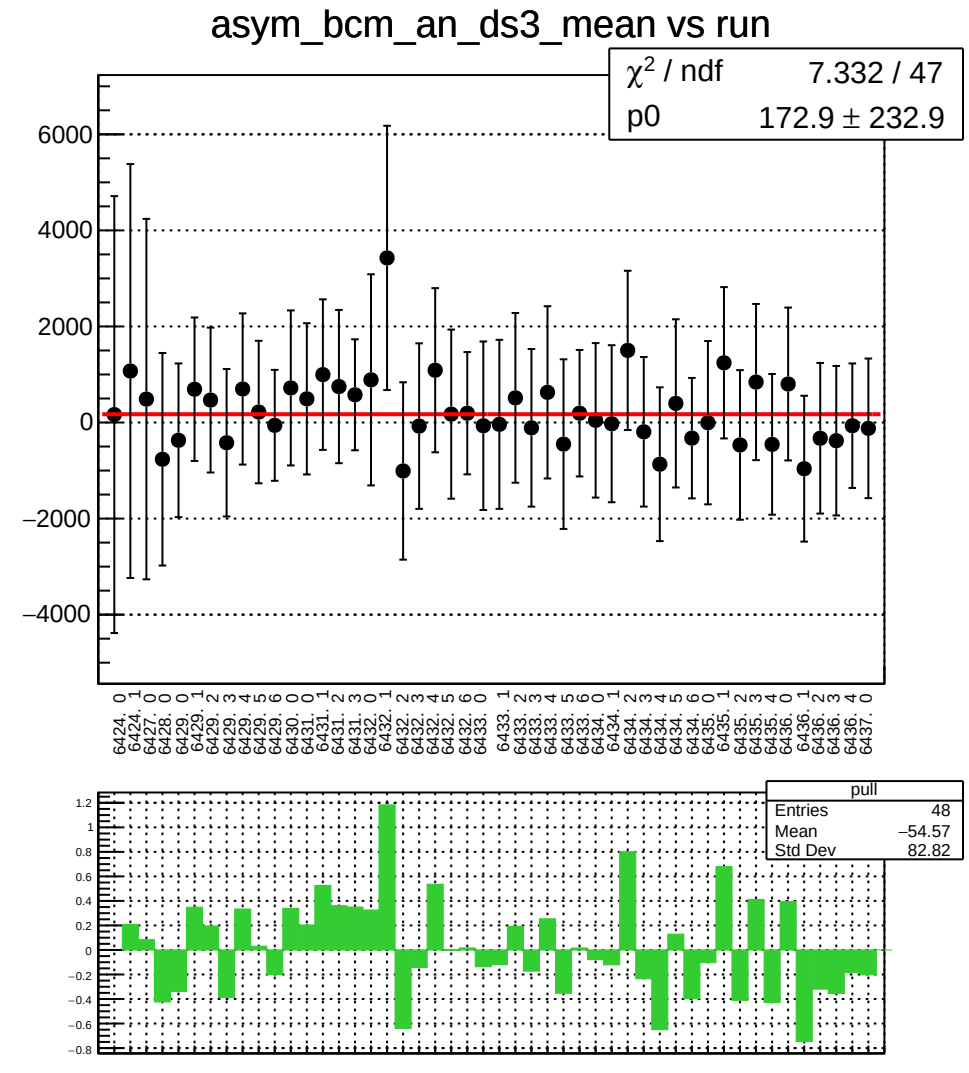

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 3.073e+06 / 47
p0 1.364e+05 ± 0.2628
136.5
136
135.5
135
134.5
134
133.5
133
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −15.63
Std Dev 32.8
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 3.133
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

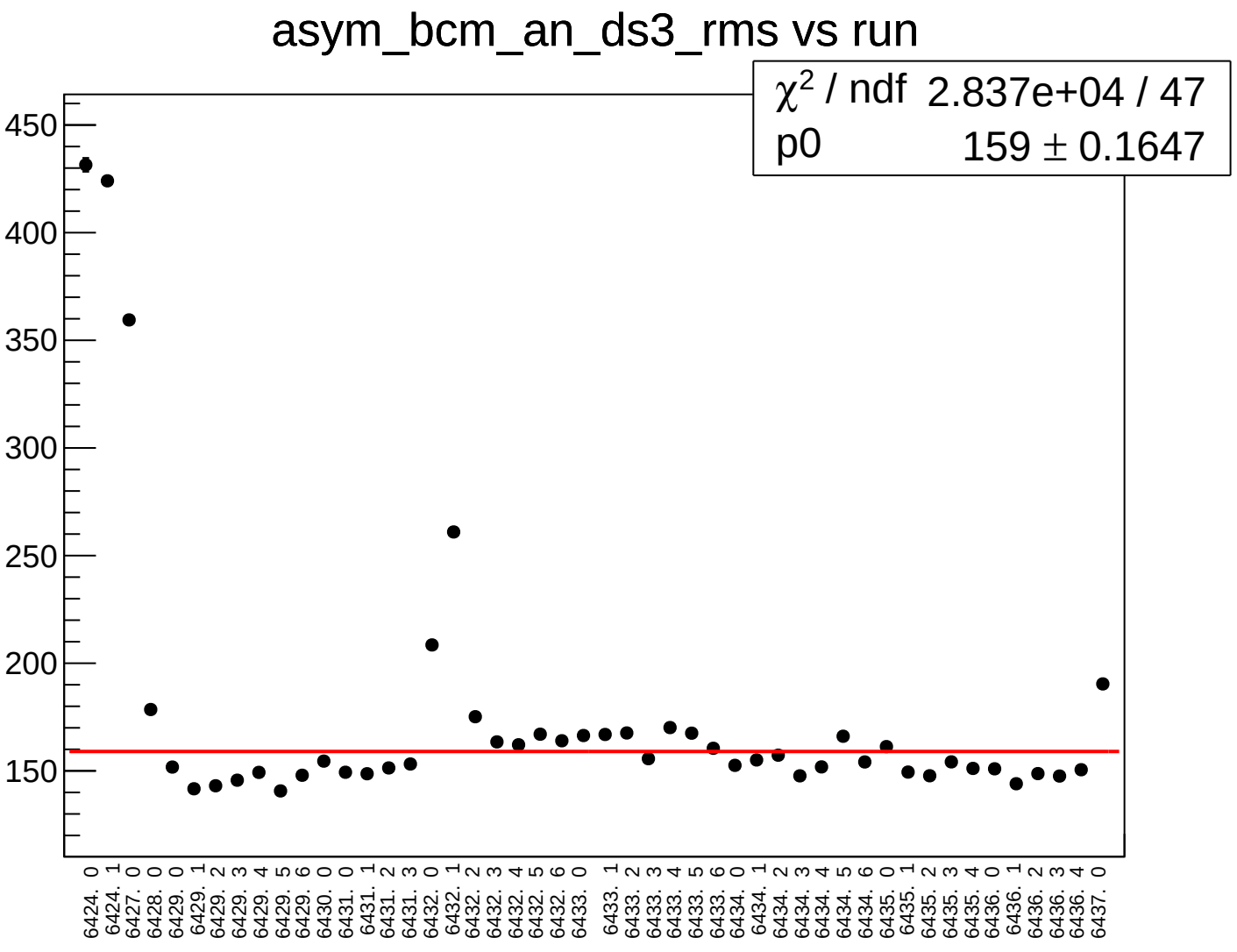

yield_bpm2i02WS_rms vs run
χ² / ndf 1.604e+05 / 47
p0 166.3 ± 0.1858
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

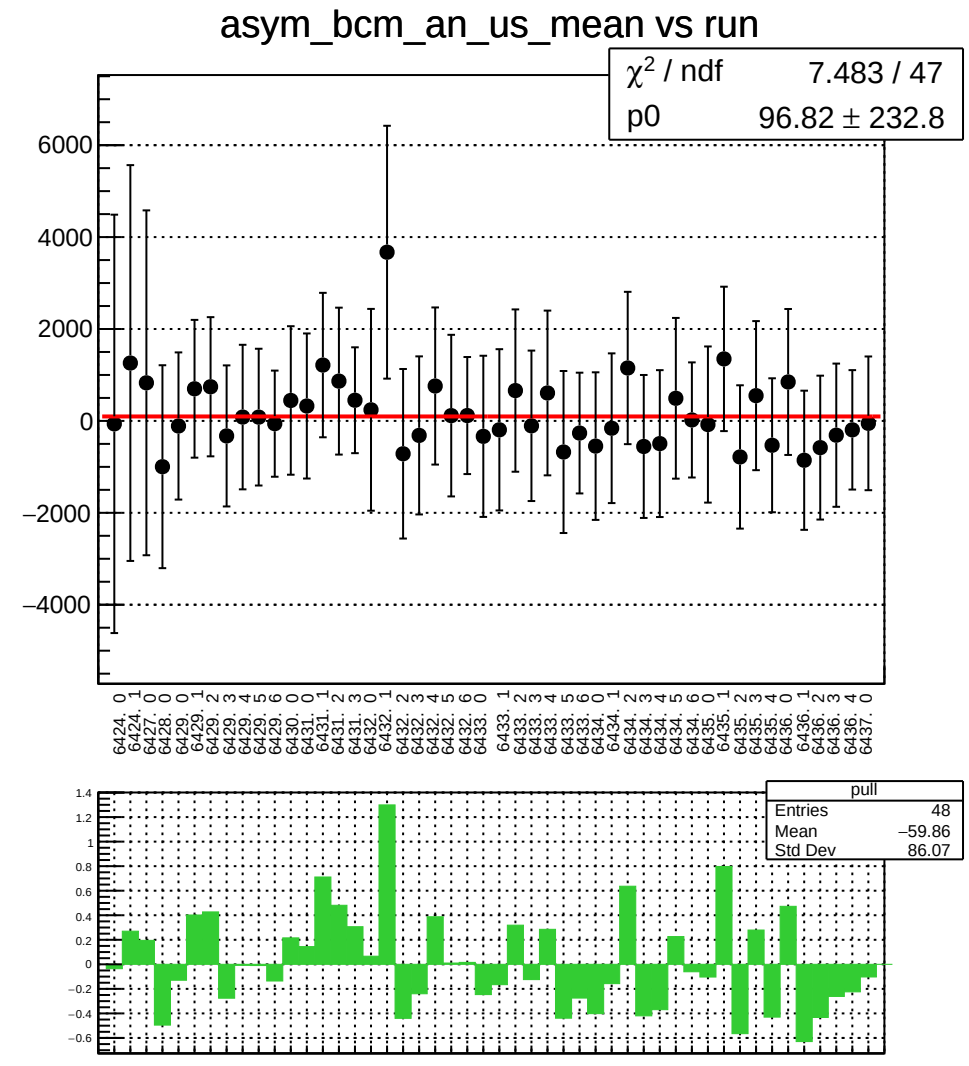

asym_bcm_an_ds_mean vs run
χ² / ndf 7.194 / 47
p0 156.8 ± 232.5
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −59.93
Std Dev 88.22
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

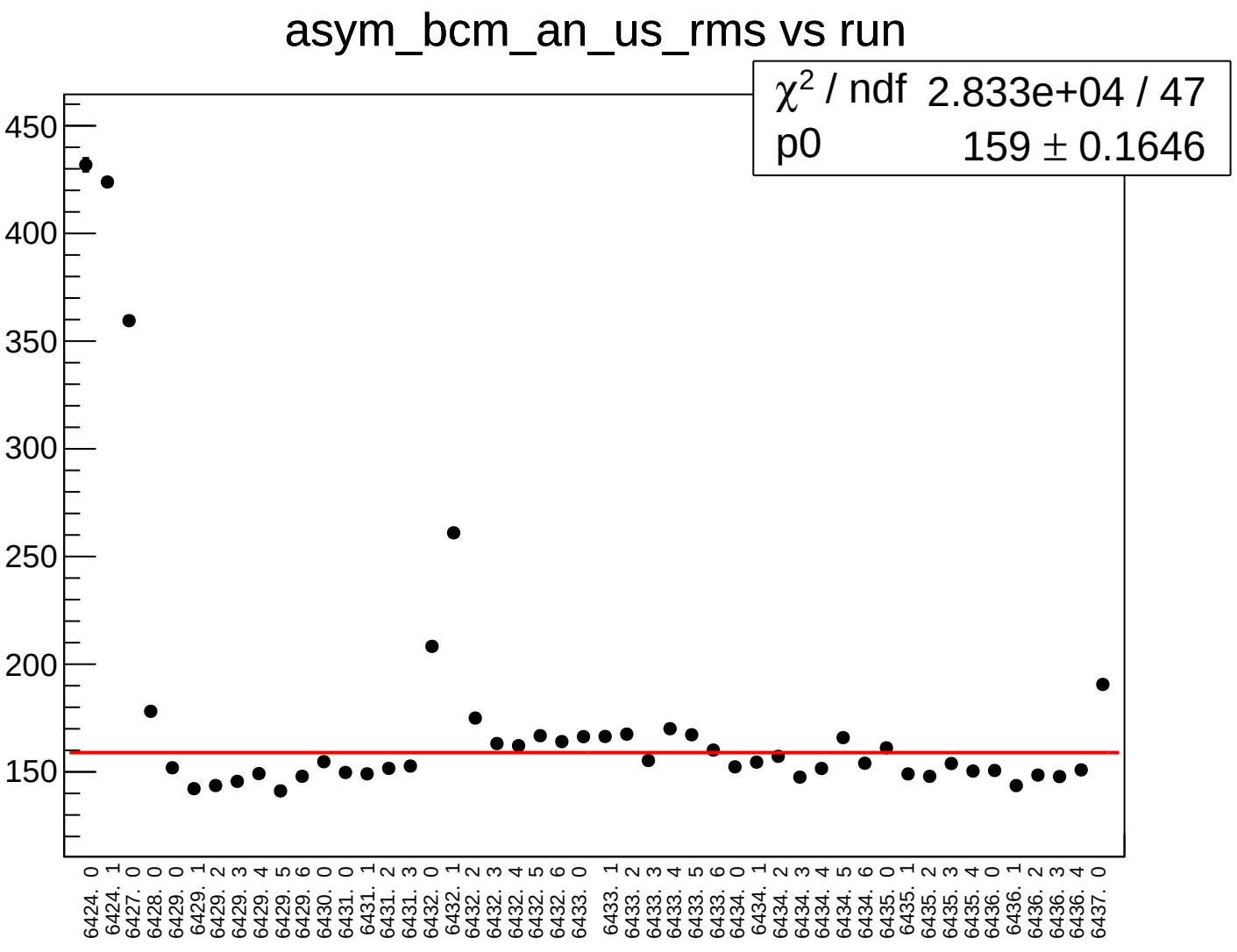

pull1D
Entries 48
Mean 0.01481
Std Dev 0.3869
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

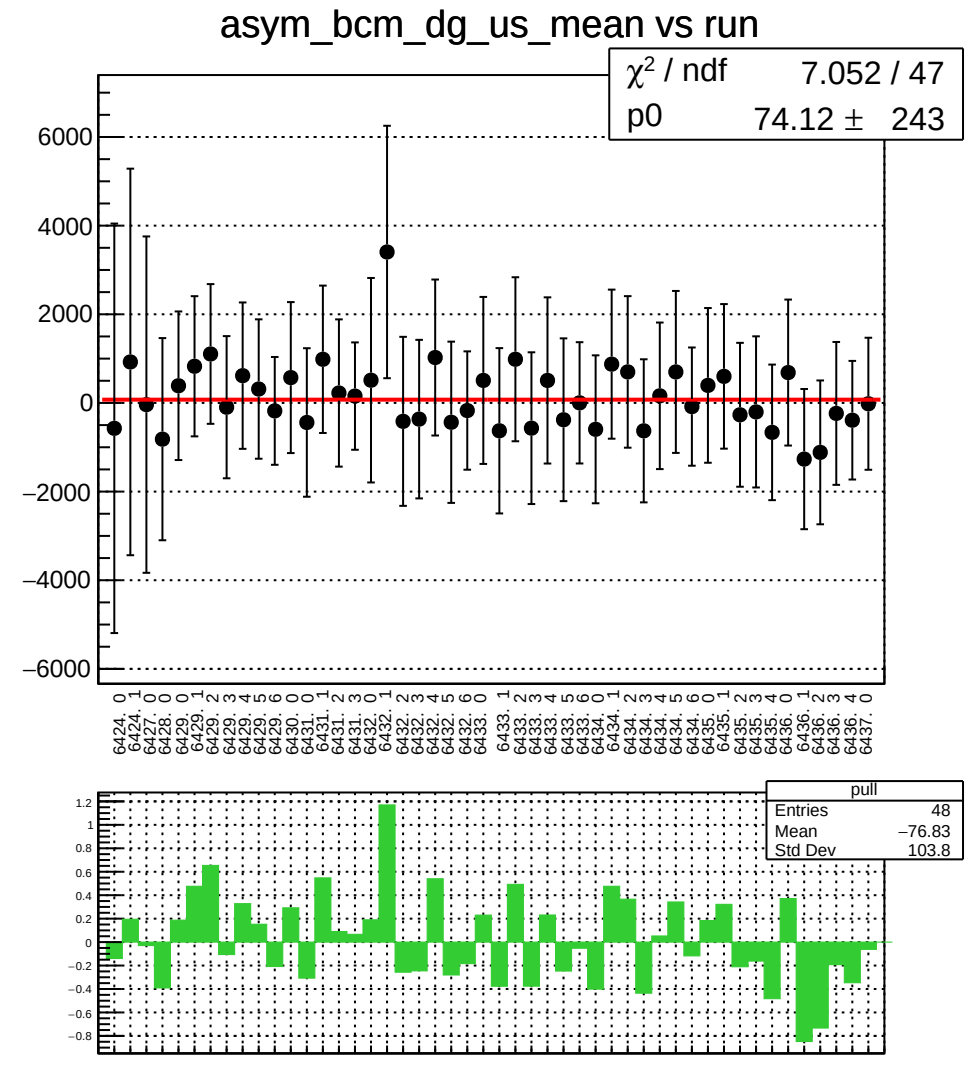

asym_bcm_an_ds_rms vs run
χ² / ndf 2.828e+04 / 47
p0 158.8 ± 0.1644
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

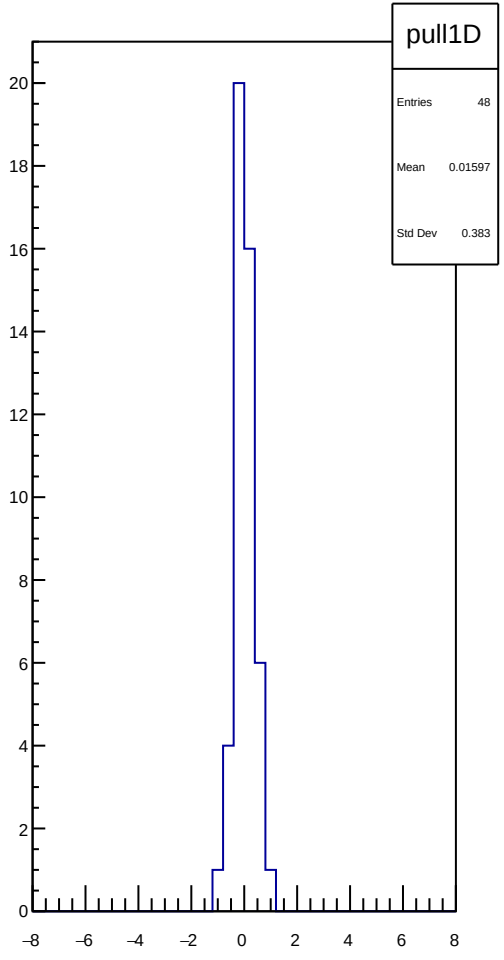

asym_bcm_an_ds3_mean vs run
χ² / ndf 7.332 / 47
p0 172.9 ± 232.9
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −54.57
Std Dev 82.82
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 48
Mean 0.01611
Std Dev 0.3905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

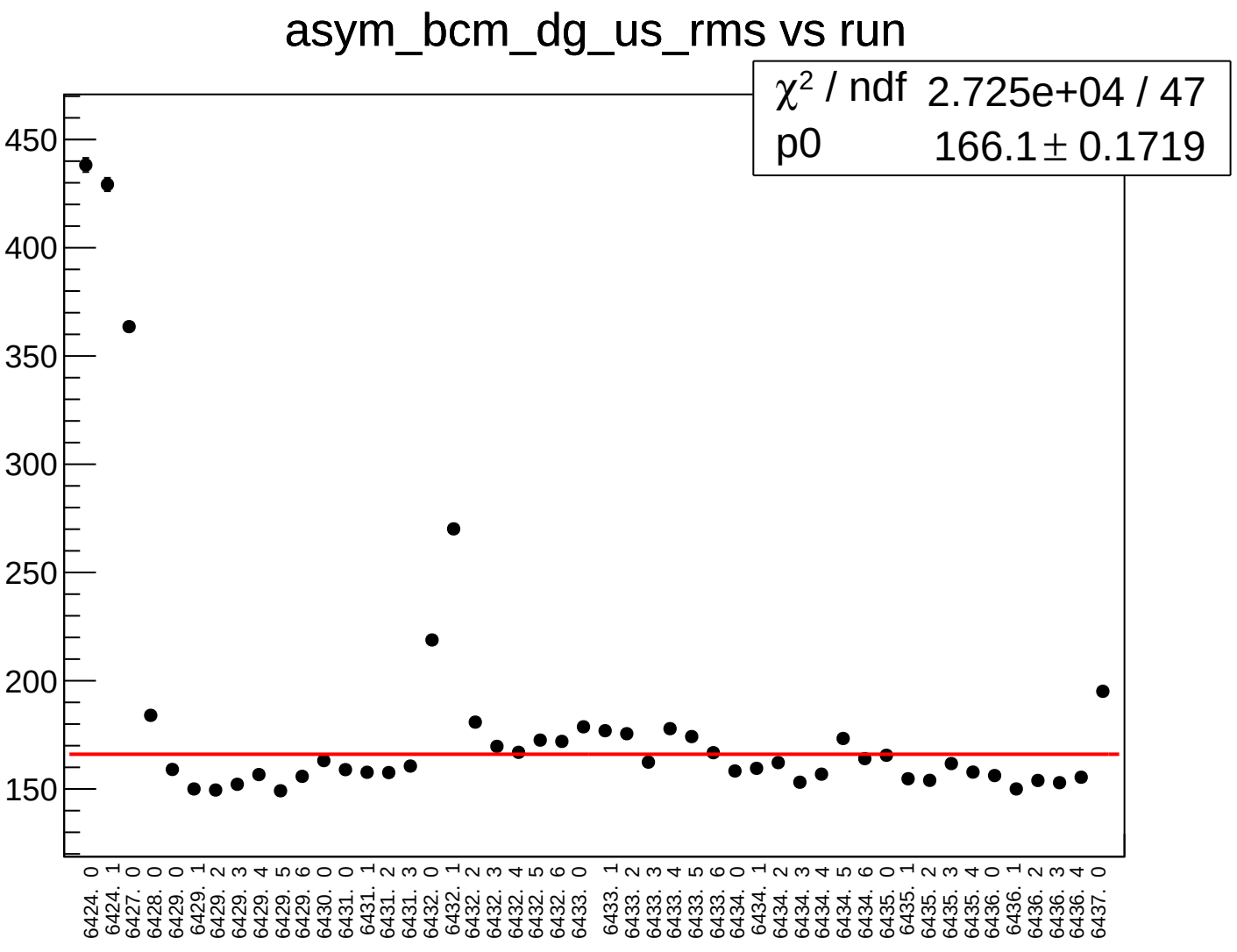

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2.837e+04 / 47
p0 159 ± 0.1647
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_an_us_mean vs run
χ² / ndf 7.483 / 47
p0 96.82 ± 232.8
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −59.86
Std Dev 86.07
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 48
Mean 0.01603
Std Dev 0.3945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_rms vs run
χ² / ndf 2.833e+04 / 47
p0 159 ± 0.1646
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_us_mean vs run
χ² / ndf 7.052 / 47
p0 74.12 ± 243
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −76.83
Std Dev 103.8
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 48
Mean 0.01597
Std Dev 0.383
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 2.725e+04 / 47
p0 166.1 ± 0.1719
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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6433. 2
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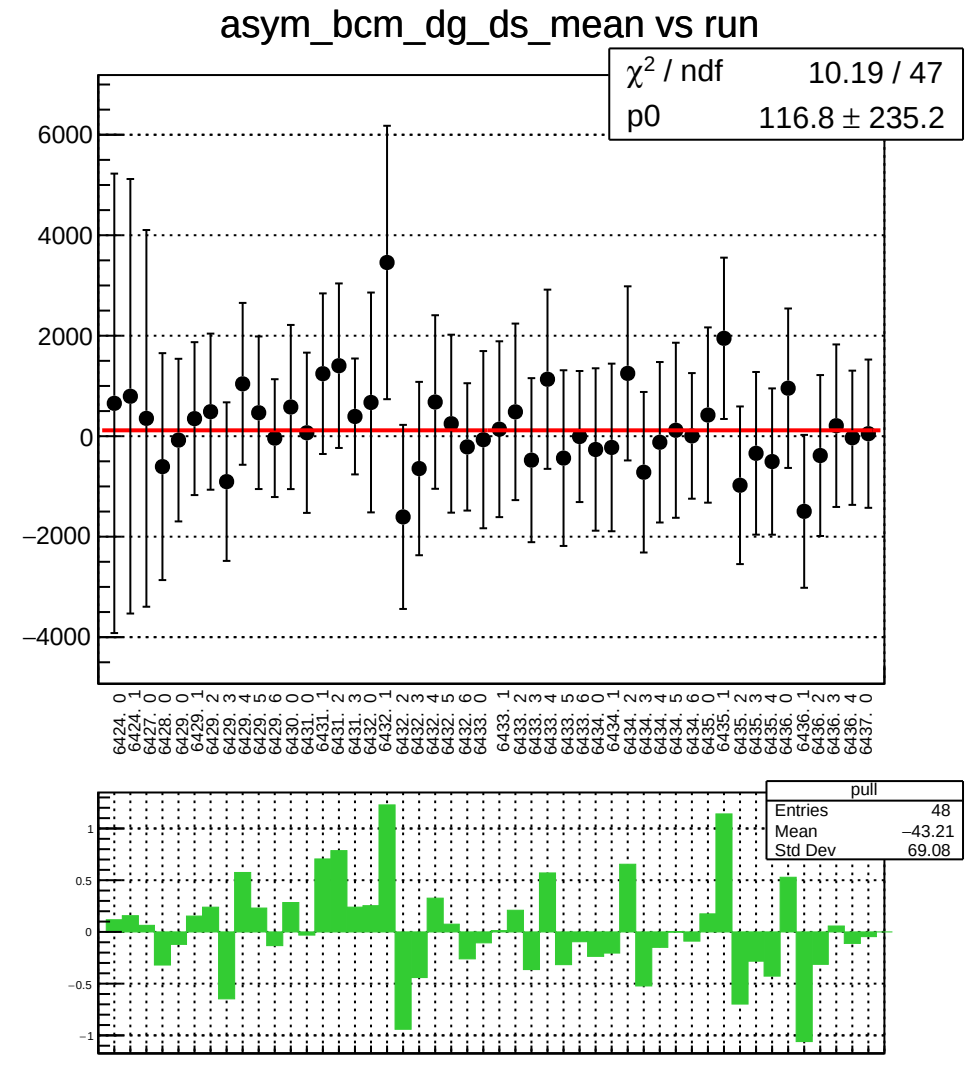
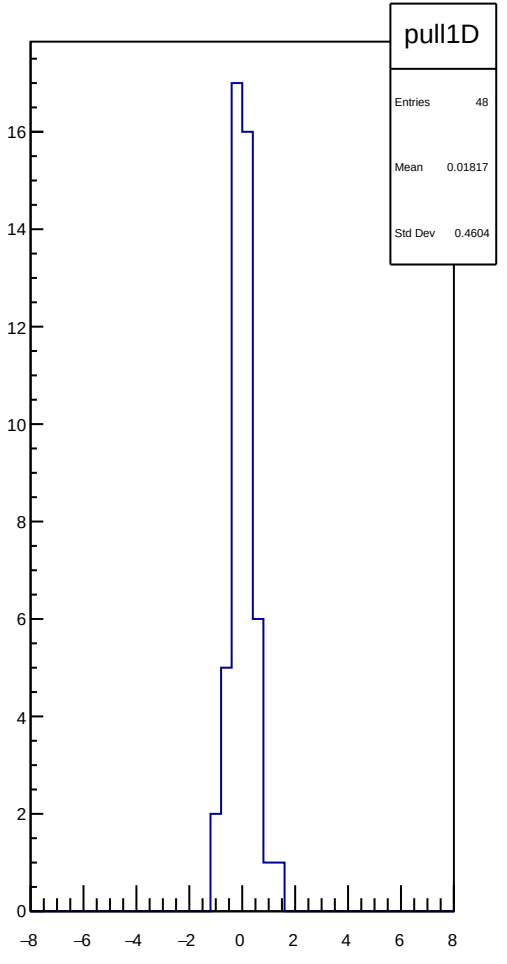
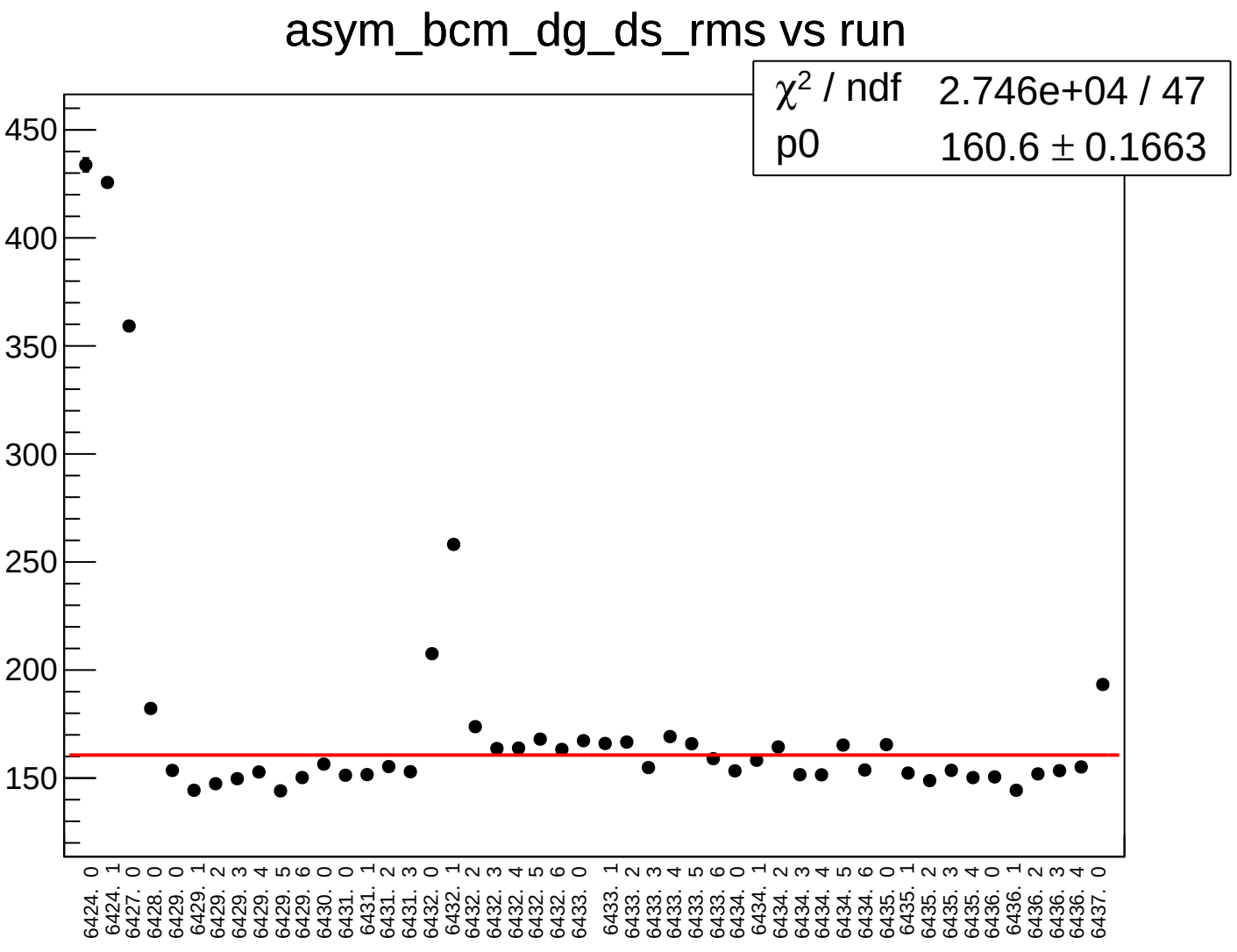
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bcm_dg_ds_mean vs run
χ² / ndf 10.19 / 47
p0 116.8 ± 235.2
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −43.21
Std Dev 69.08
1
0.5
0
−0.5
−1


pull1D
Entries 48
Mean 0.01817
Std Dev 0.4604
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_rms vs run
χ² / ndf 2.746e+04 / 47
p0 160.6 ± 0.1663
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
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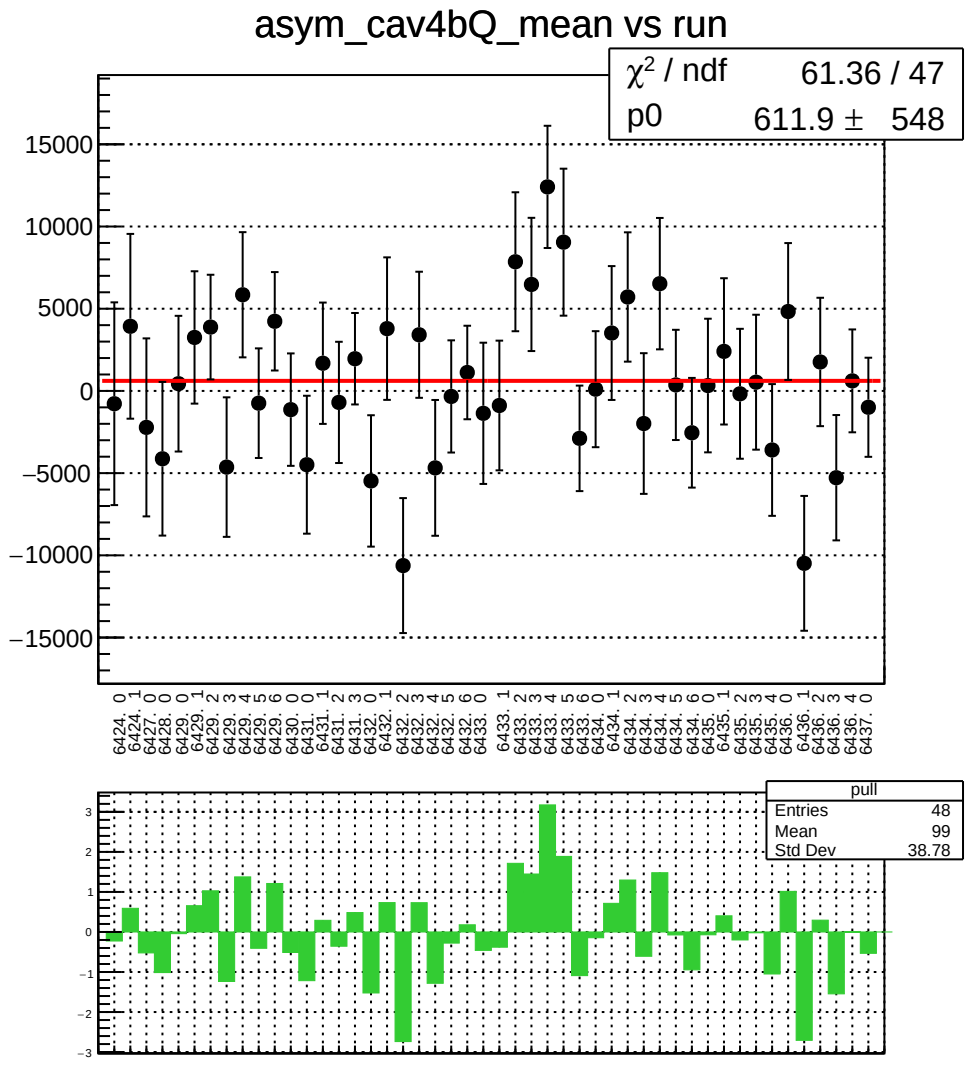
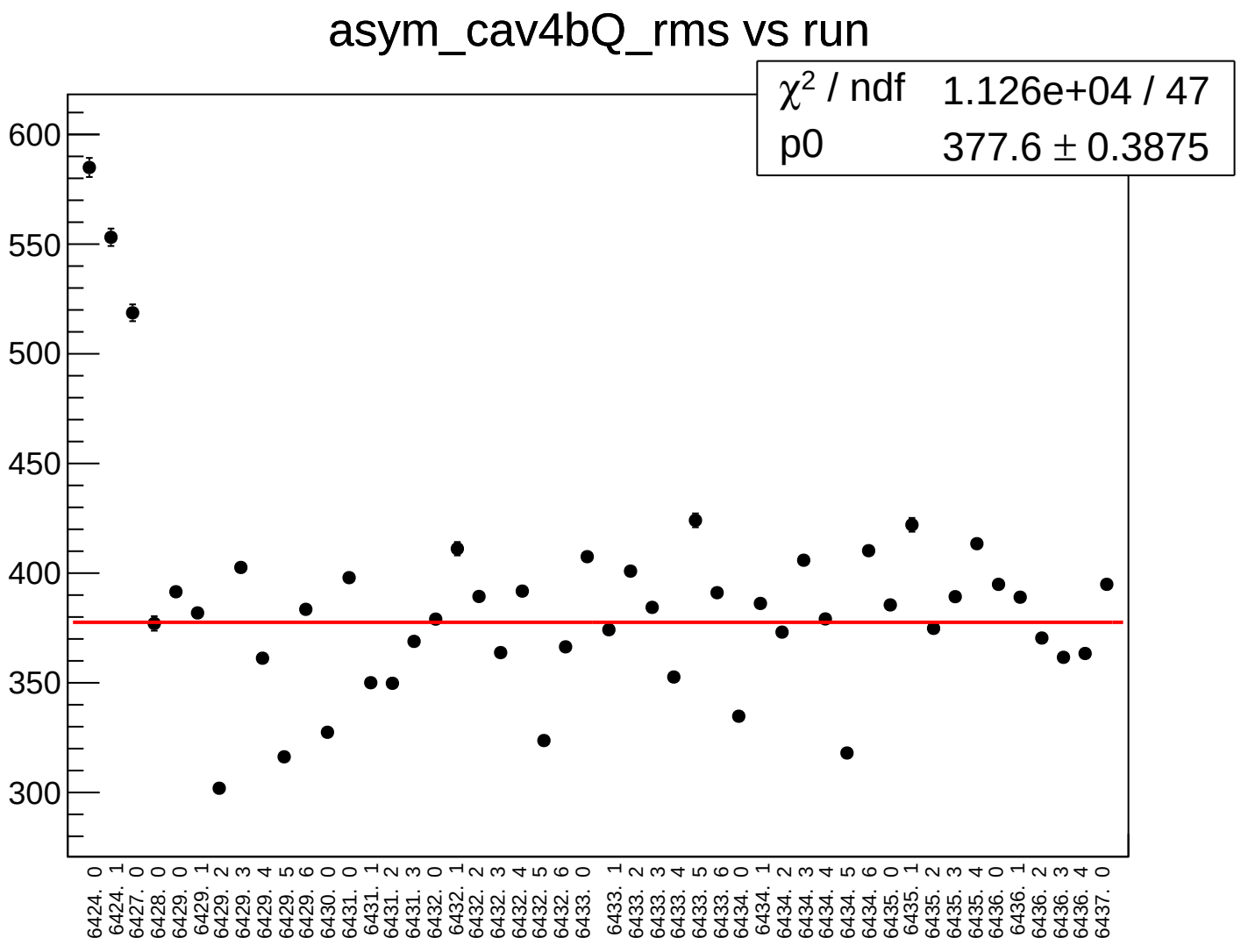
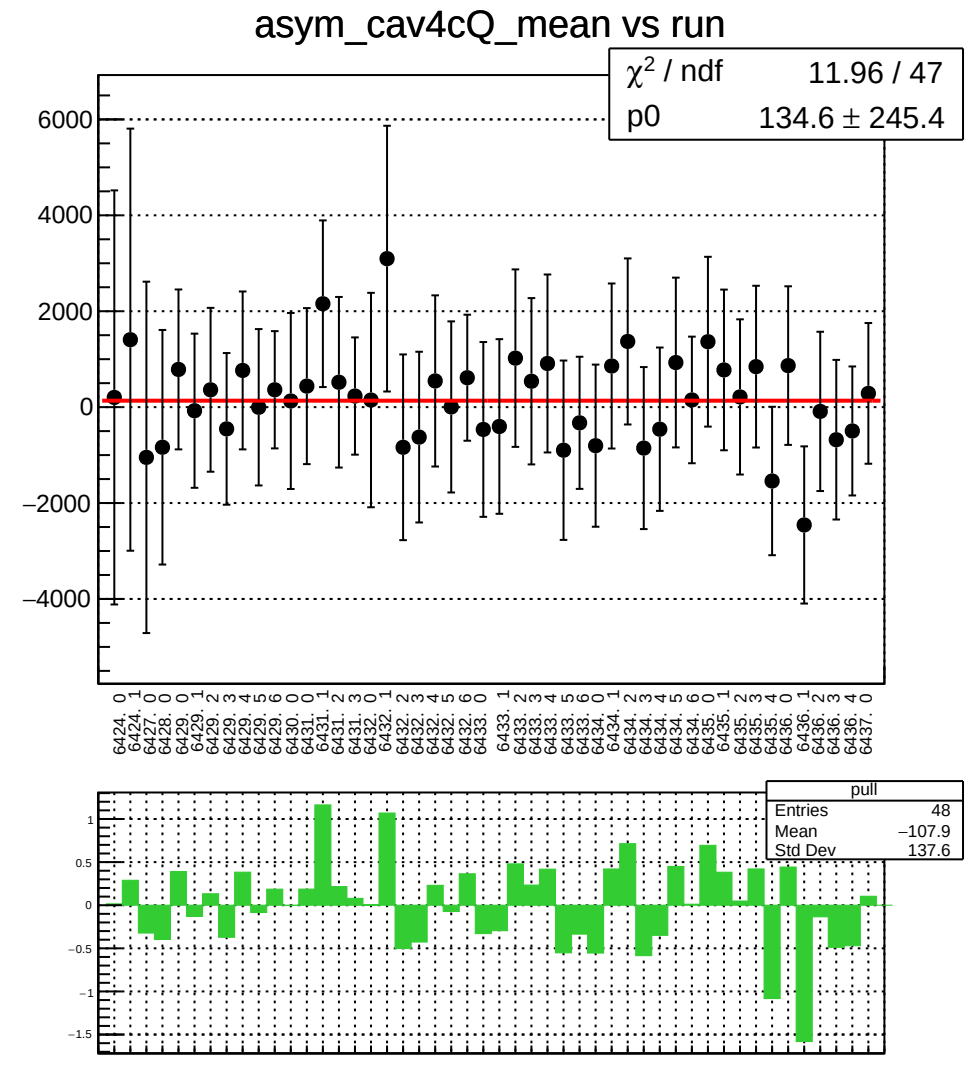
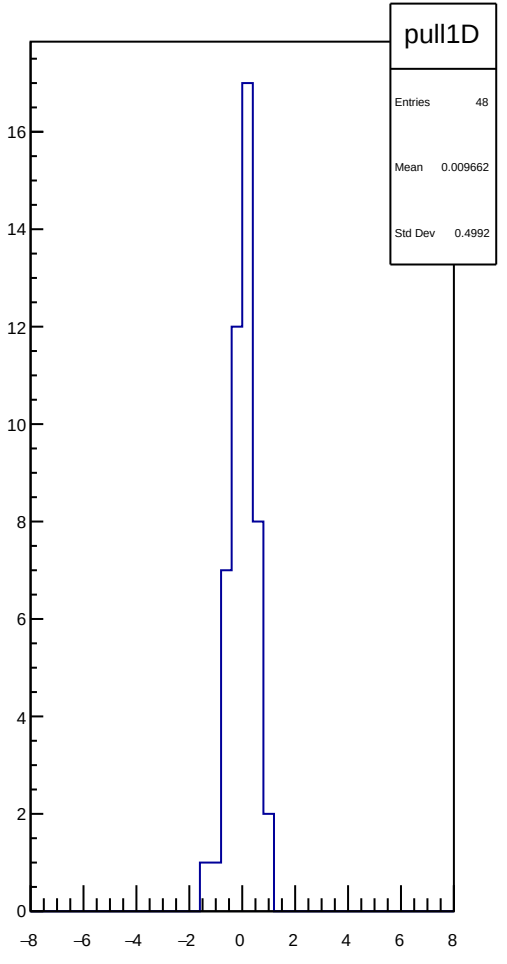
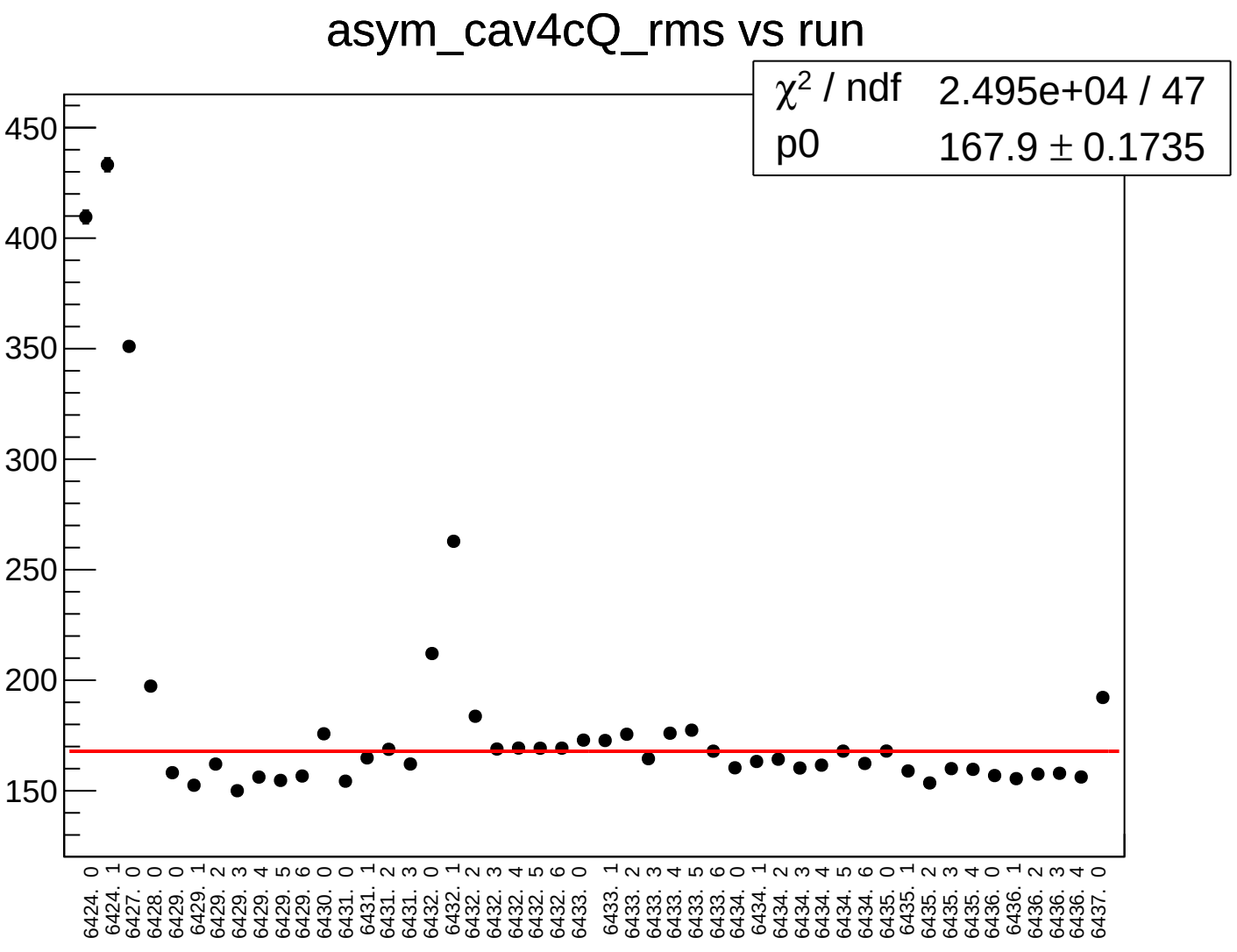
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

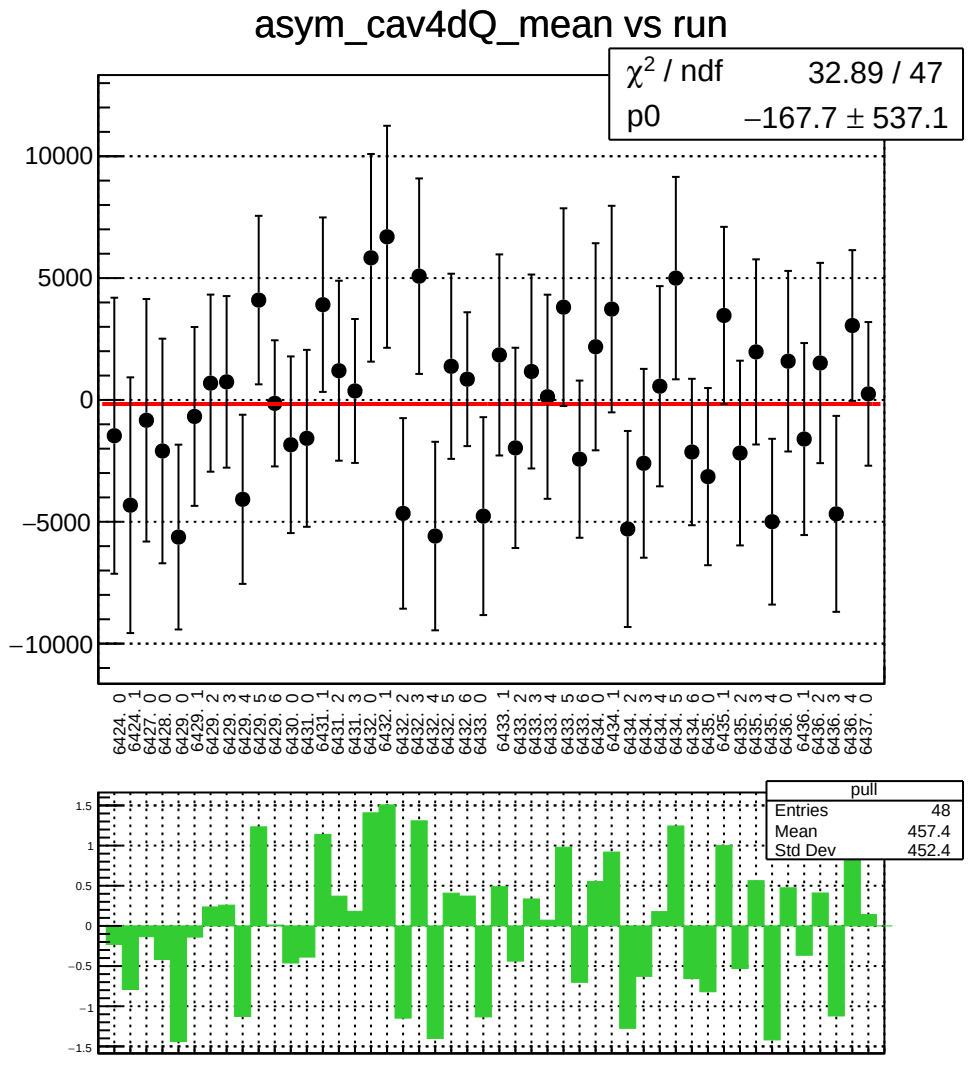

asym_cav4bQ_mean vs run
χ² / ndf 61.36 / 47
p0 611.9 ± 548
15000
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 99
Std Dev 38.78
3
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.009706
Std Dev 1.131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

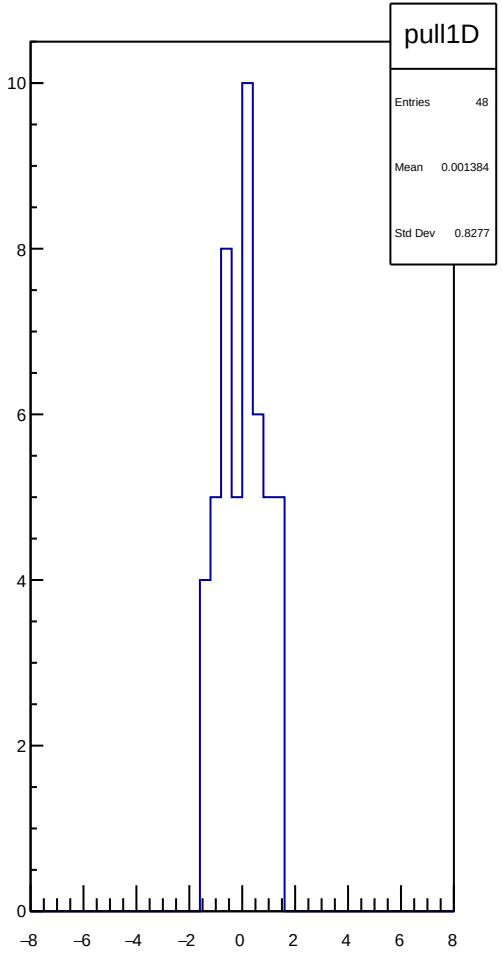

asym_cav4bQ_rms vs run
χ² / ndf 1.126e+04 / 47
p0 377.6 ± 0.3875
600
550
500
450
400
350
300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

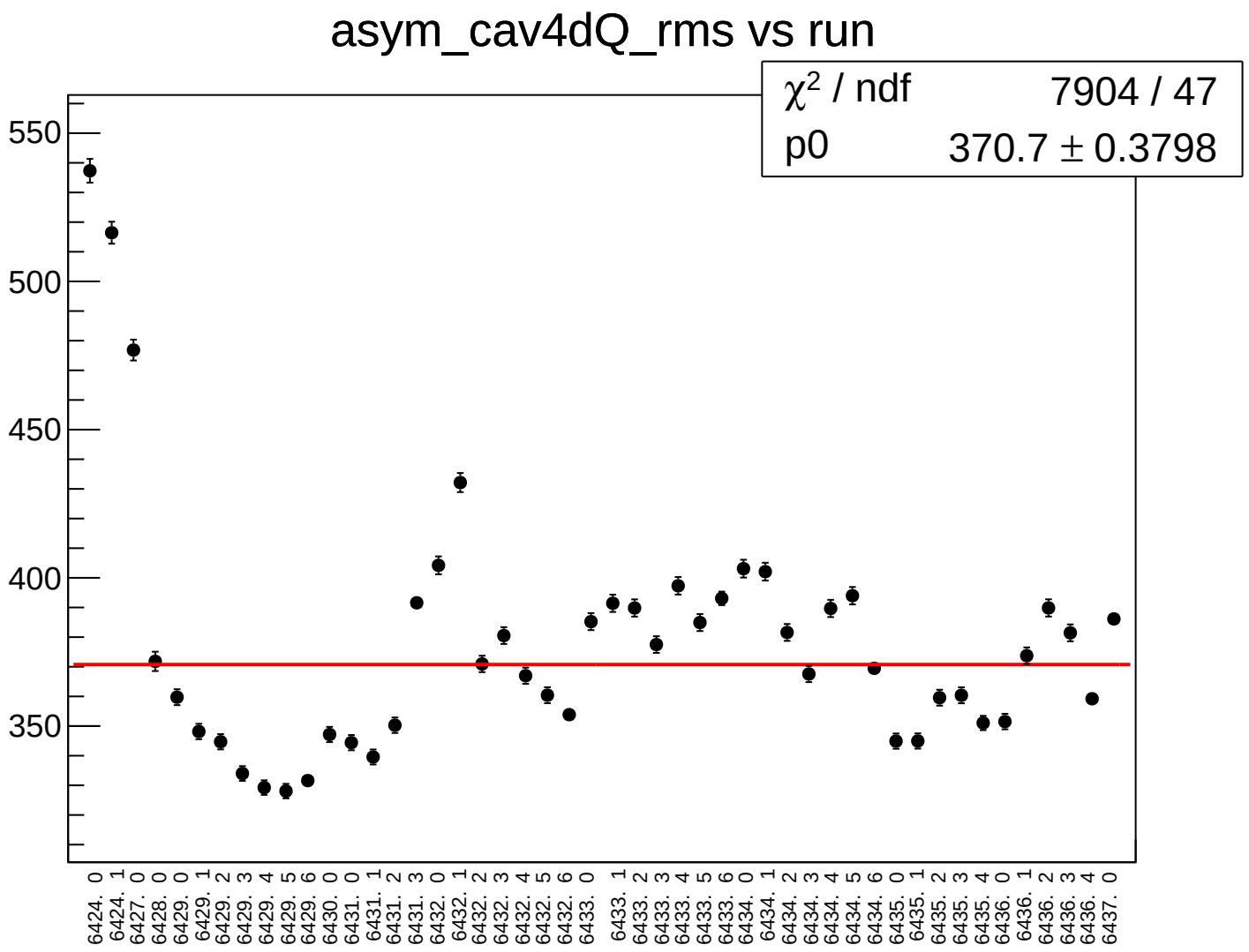

asym_cav4cQ_mean vs run
χ² / ndf 11.96 / 47
p0 134.6 ± 245.4
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −107.9
Std Dev 137.6
1
0.5
0
−0.5
−1
−1.5

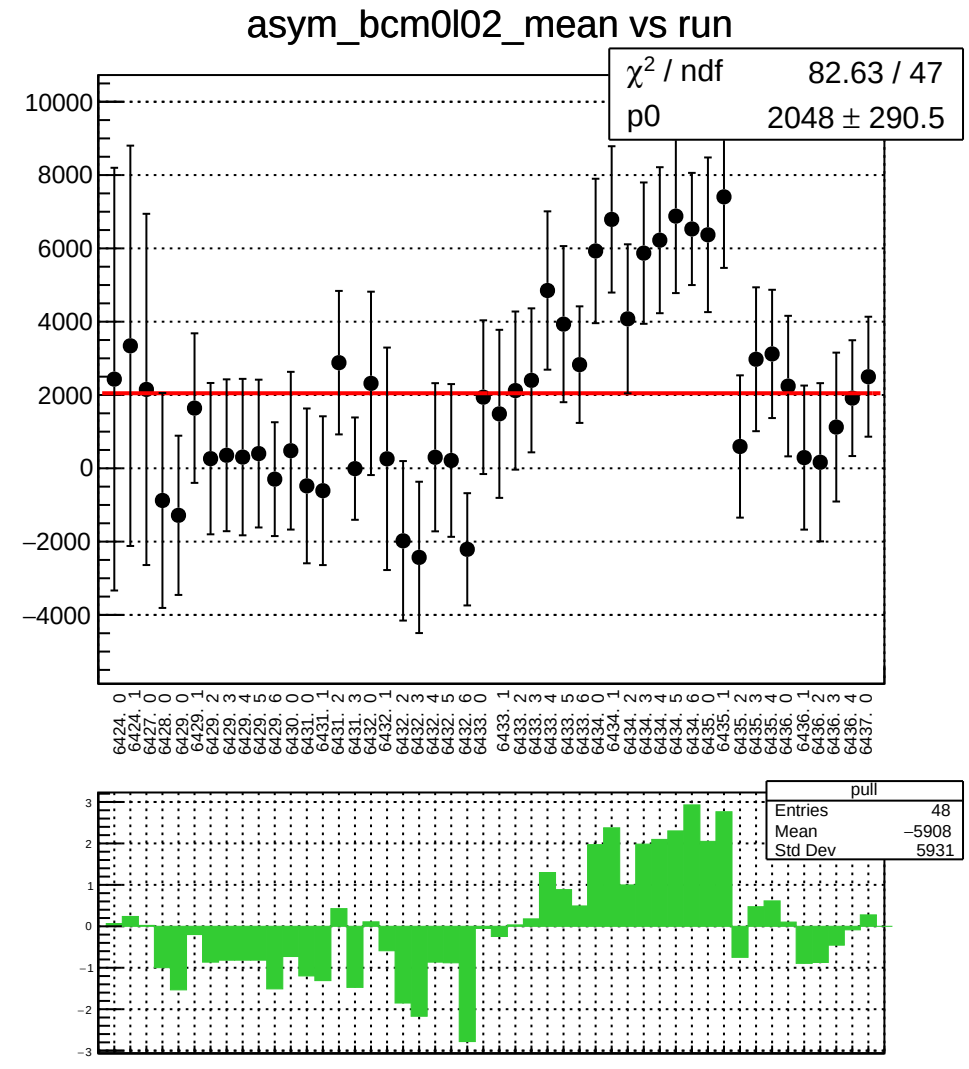

pull1D
Entries 48
Mean 0.009662
Std Dev 0.4992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

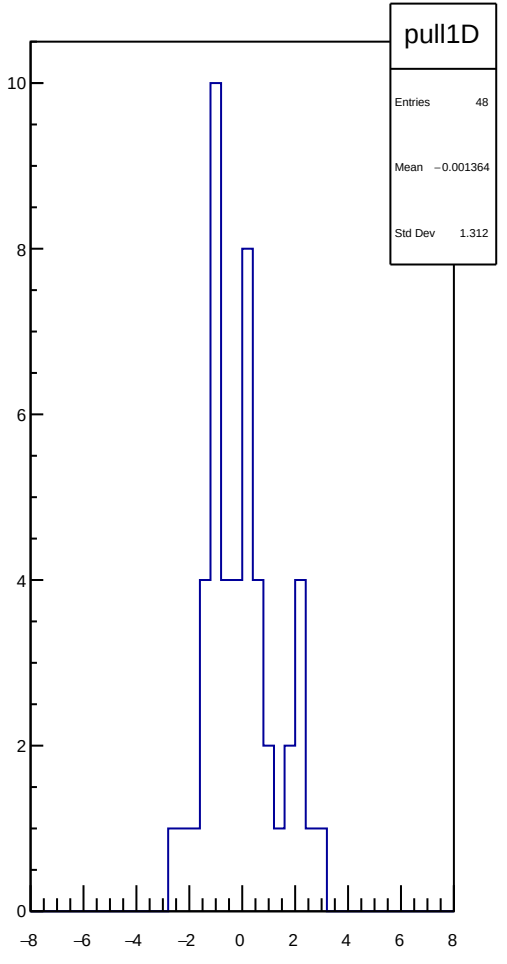

asym_cav4cQ_rms vs run
χ² / ndf 2.495e+04 / 47
p0 167.9 ± 0.1735
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

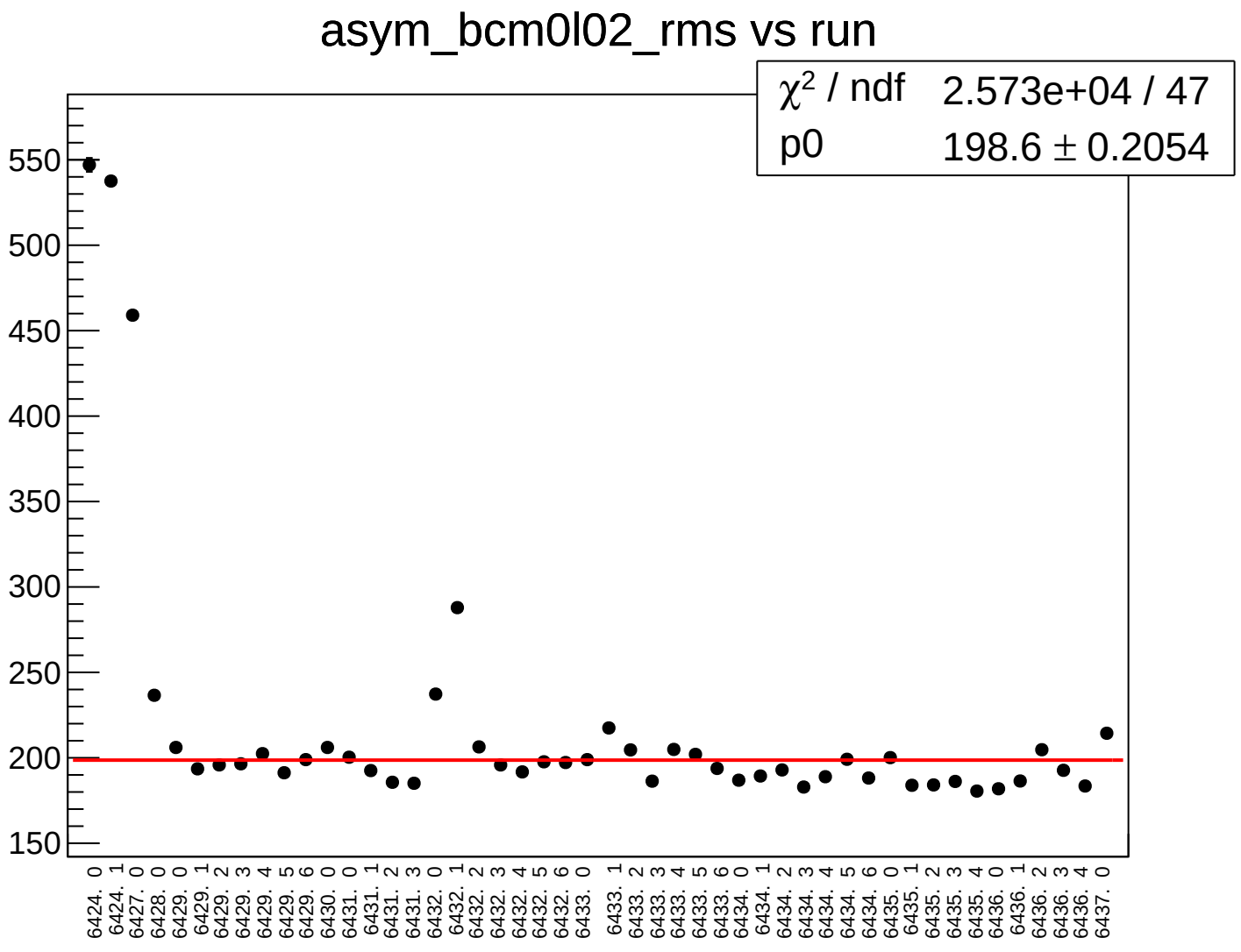

asym_cav4dQ_mean vs run
χ² / ndf 32.89 / 47
p0 −167.7 ± 537.1
10000
5000
0
−5000
−10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 457.4
Std Dev 452.4
1.5
1
0.5
0
−0.5
−1
−1.5

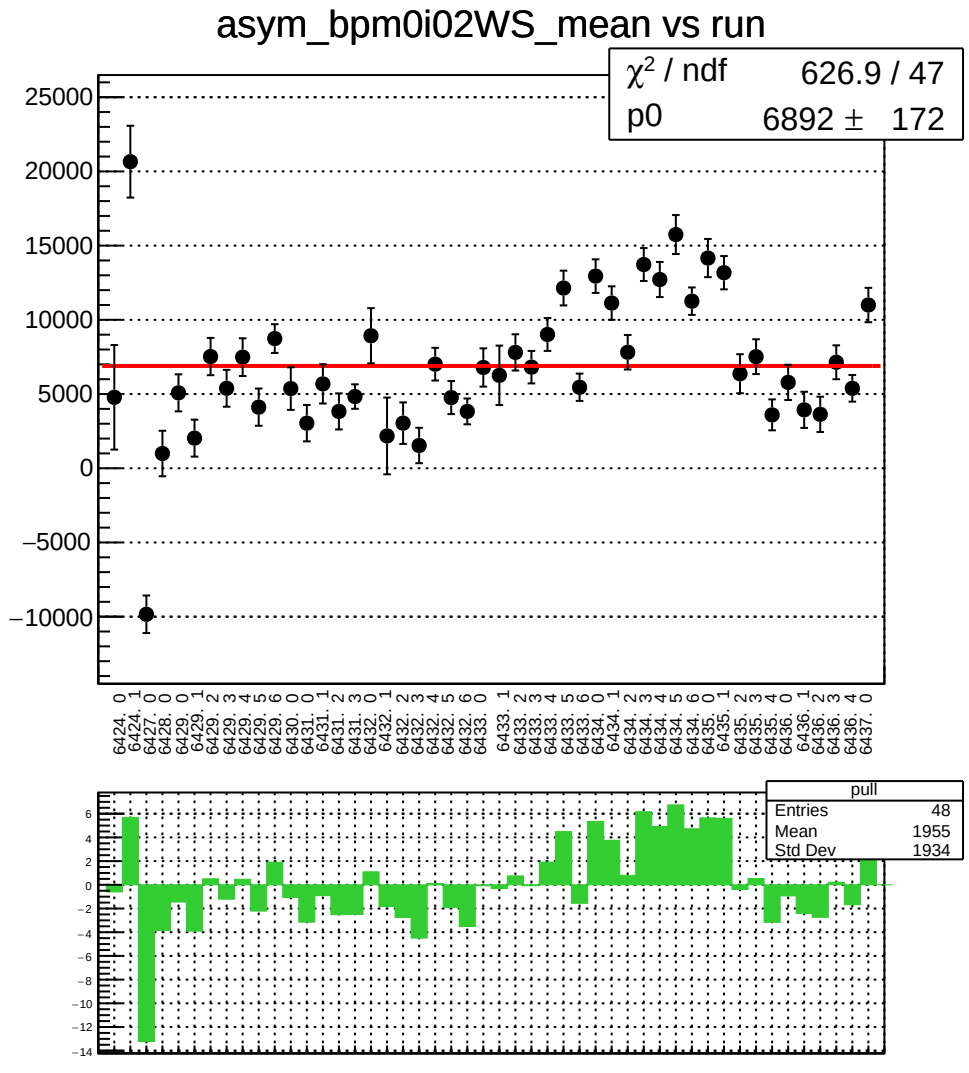

pull1D
Entries 48
Mean 0.001384
Std Dev 0.8277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

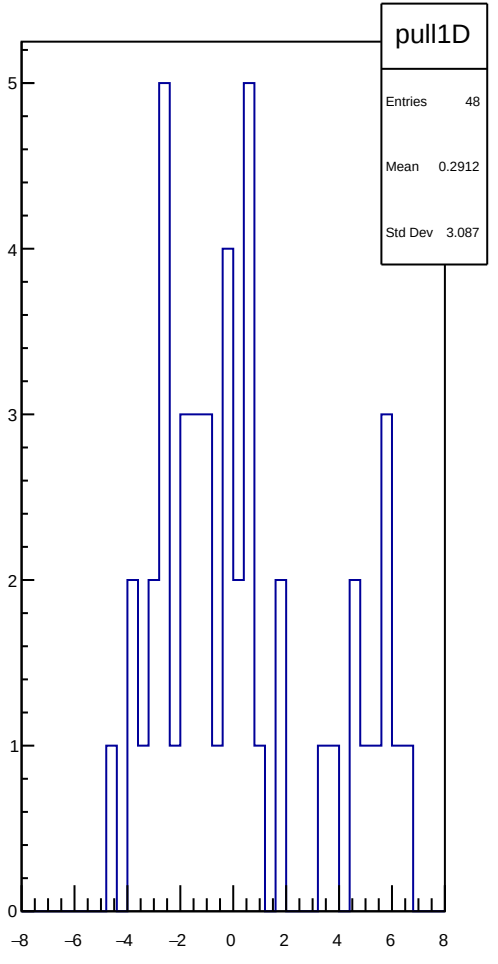

asym_cav4dQ_rms vs run
χ² / ndf 7904 / 47
p0 370.7 ± 0.3798
550
500
450
400
350
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

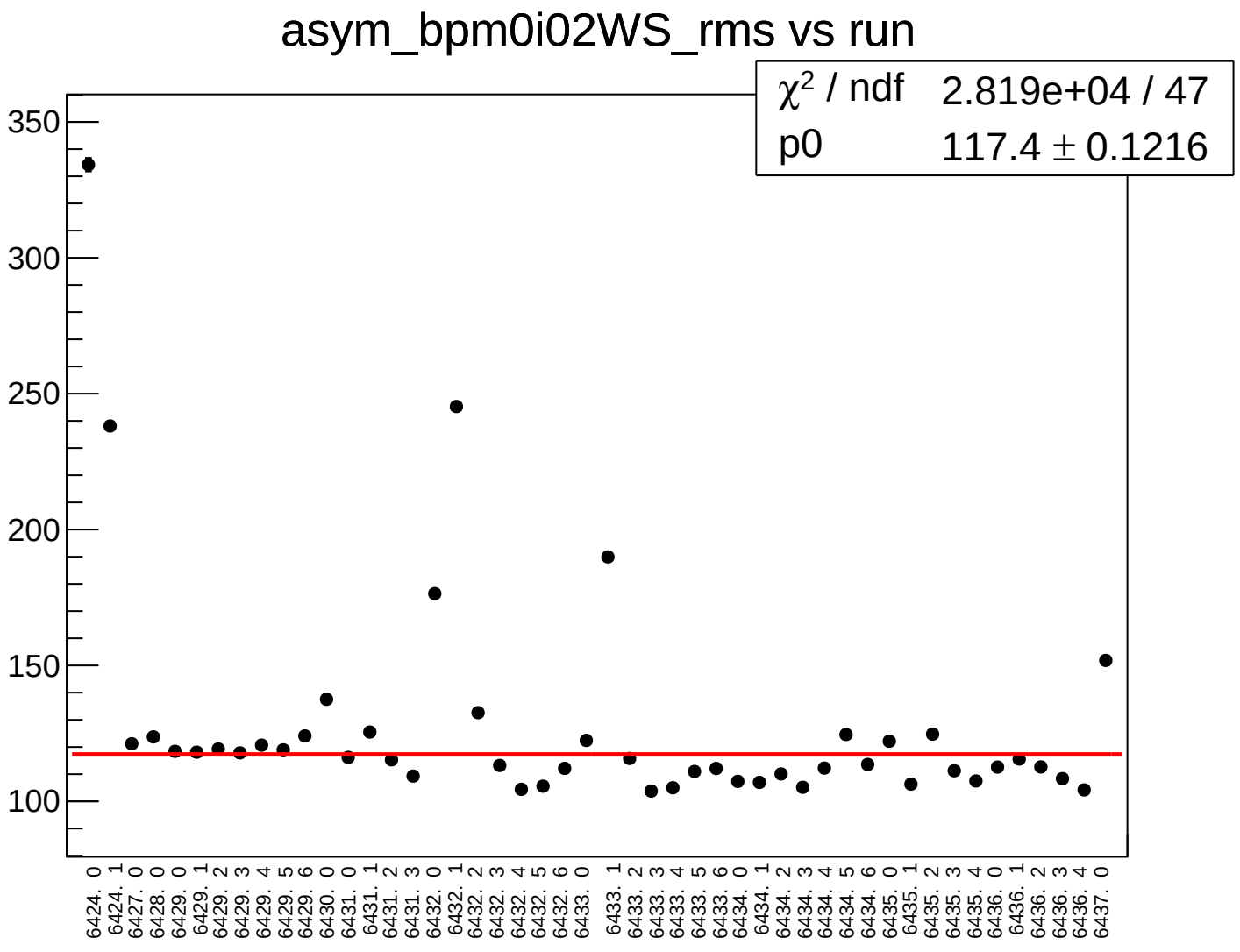

asym_bcm0l02_mean vs run
χ² / ndf 82.63 / 47
p0 2048 ± 290.5
pull
Entries 48
Mean −5908
Std Dev 5931

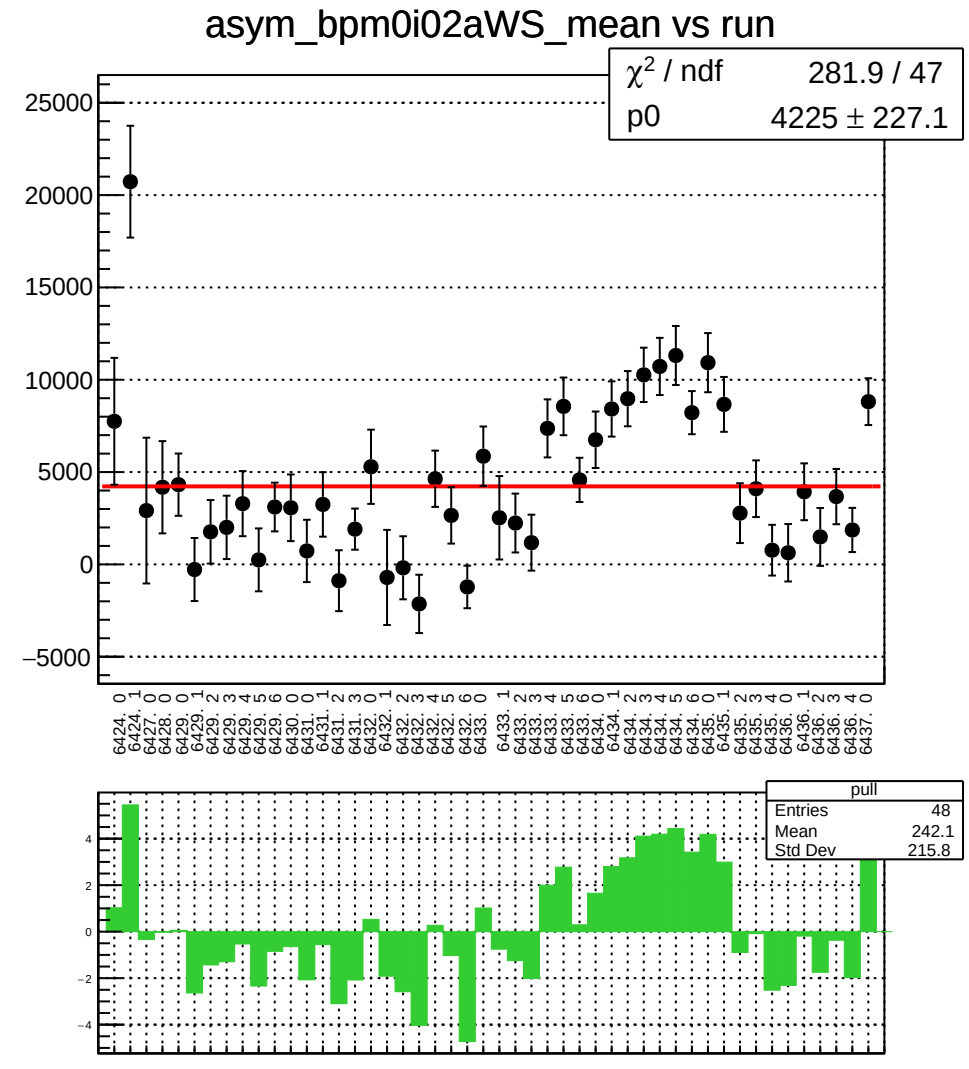

pull1D
Entries 48
Mean −0.001364
Std Dev 1.312

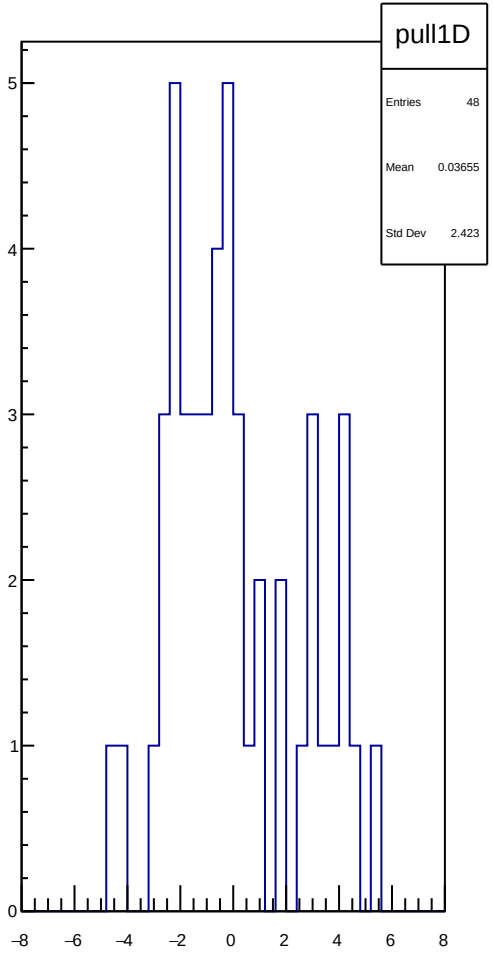

asym_bcm0l02_rms vs run
χ² / ndf 2.573e+04 / 47
p0 198.6 ± 0.2054
550
500
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

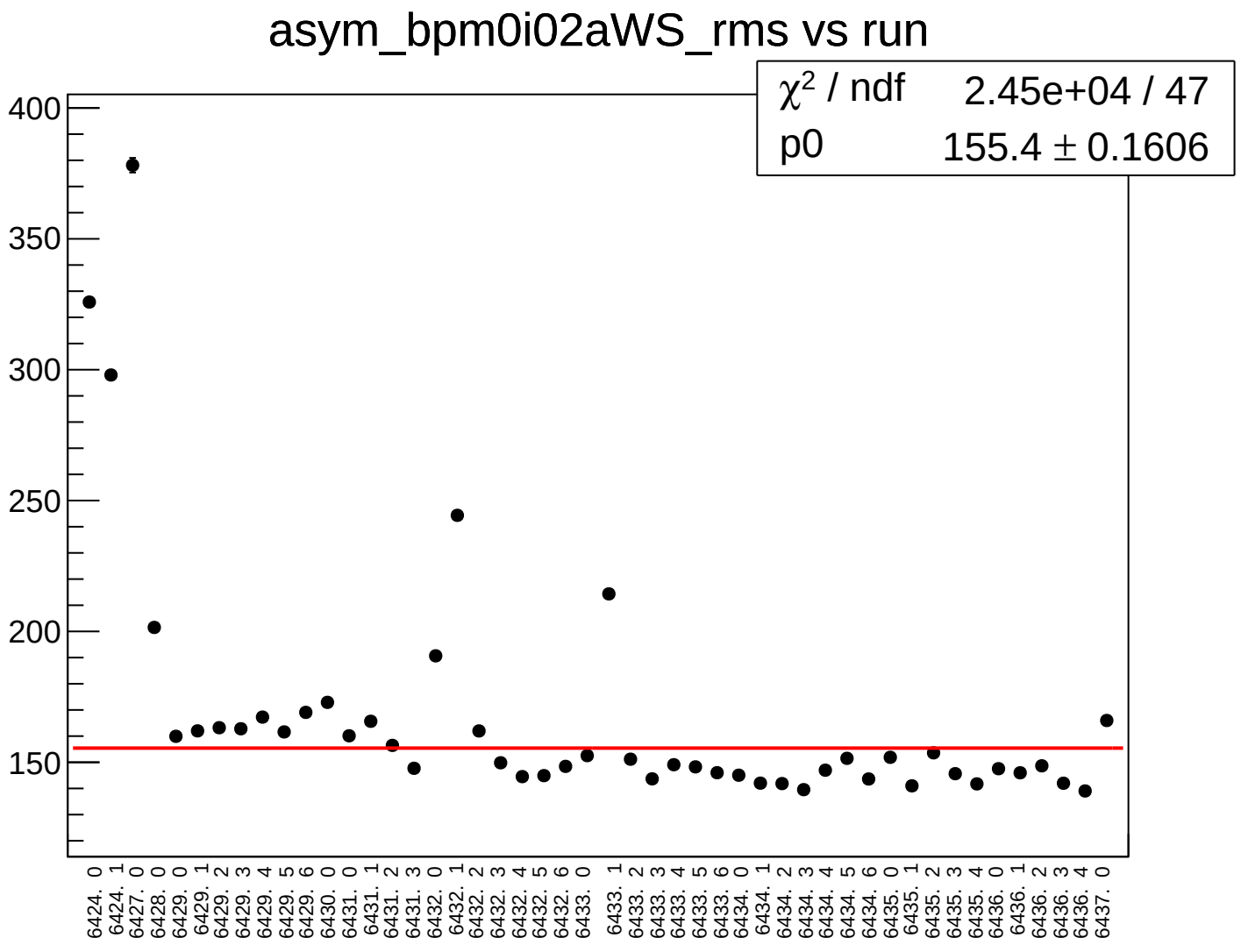

asym_bpm0i02WS_mean vs run
χ² / ndf 626.9 / 47
p0 6892 ± 172
pull
Entries 48
Mean 1955
Std Dev 1934

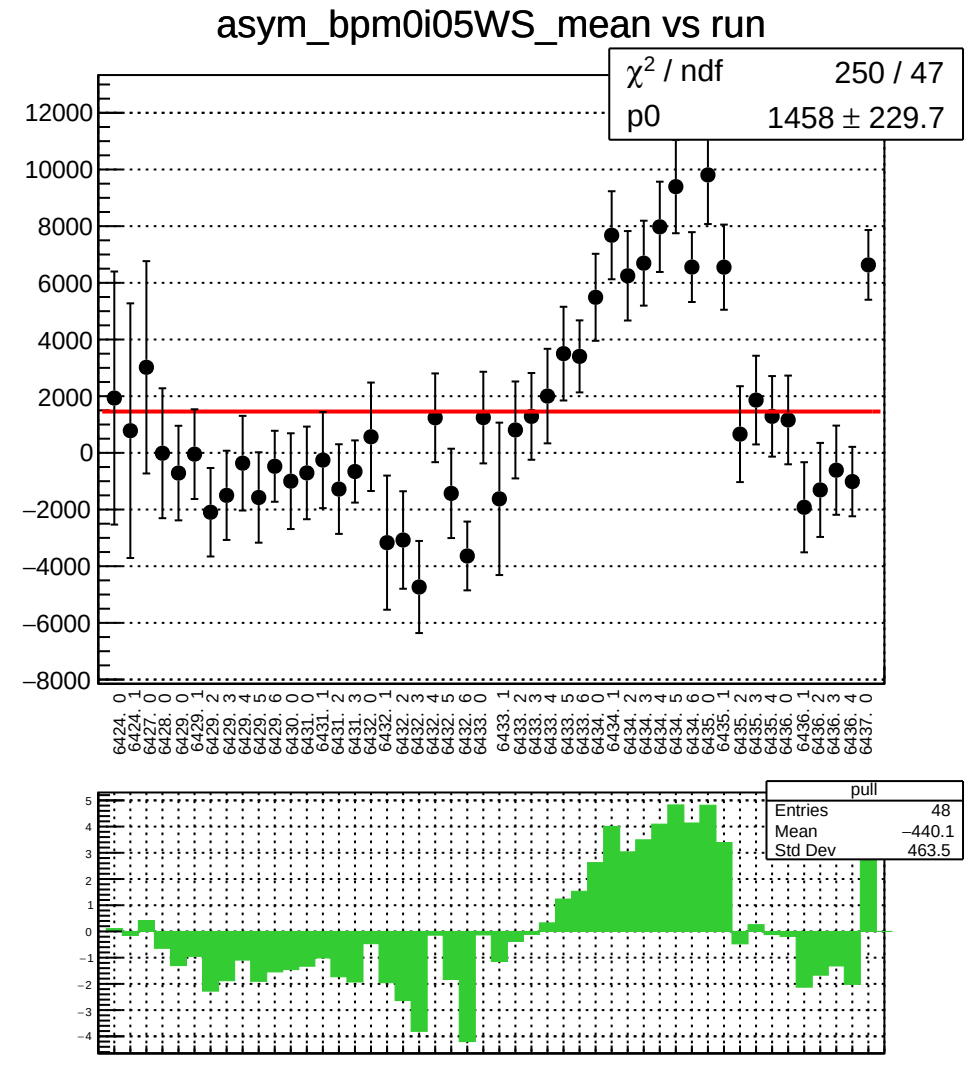

pull1D
Entries 48
Mean 0.2912
Std Dev 3.087

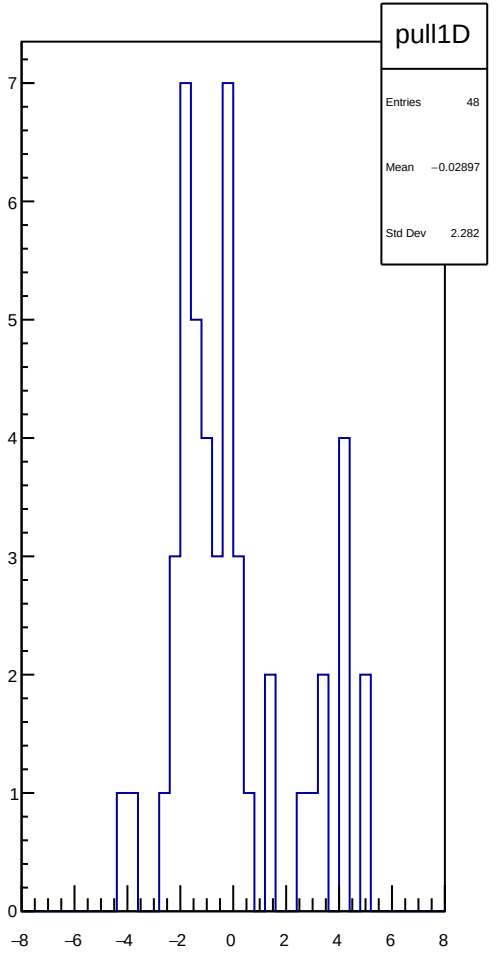

asym_bpm0i02WS_rms vs run
χ² / ndf 2.819e+04 / 47
p0 117.4 ± 0.1216
350
300
250
200
150
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

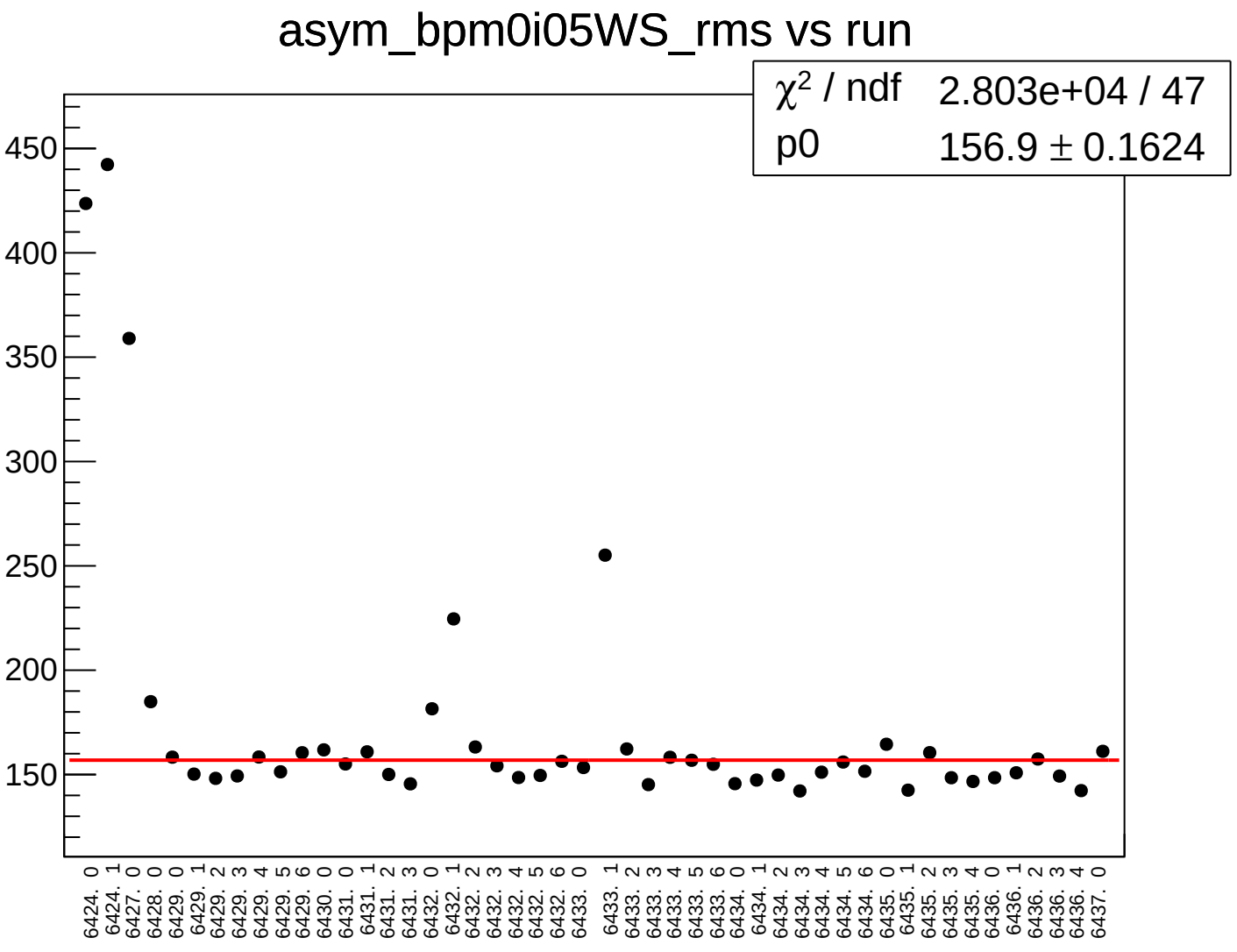

asym_bpm0i02aWS_mean vs run
χ² / ndf 281.9 / 47
p0 4225 ± 227.1
25000
20000
15000
10000
5000
0
−5000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 242.1
Std Dev 215.8
4
2
0
−2
−4

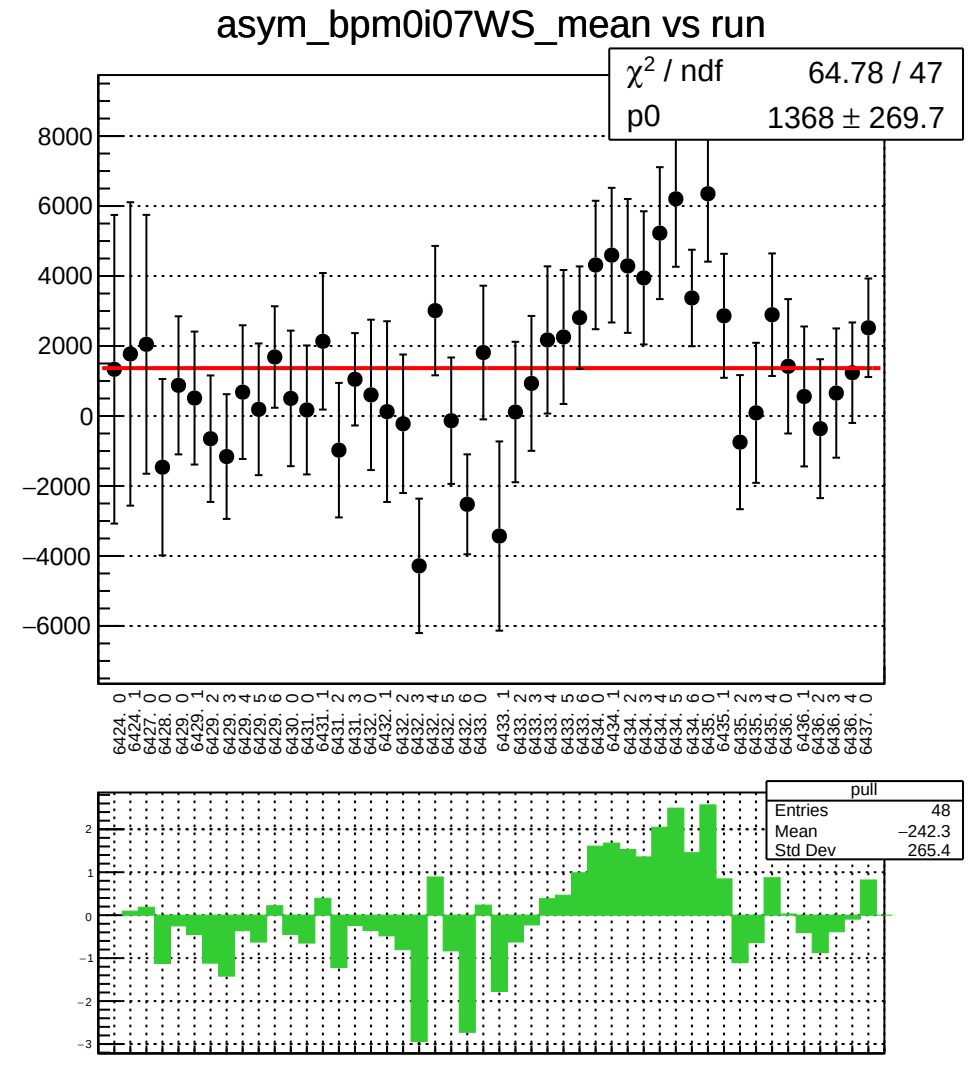

pull1D
Entries 48
Mean 0.03655
Std Dev 2.423
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

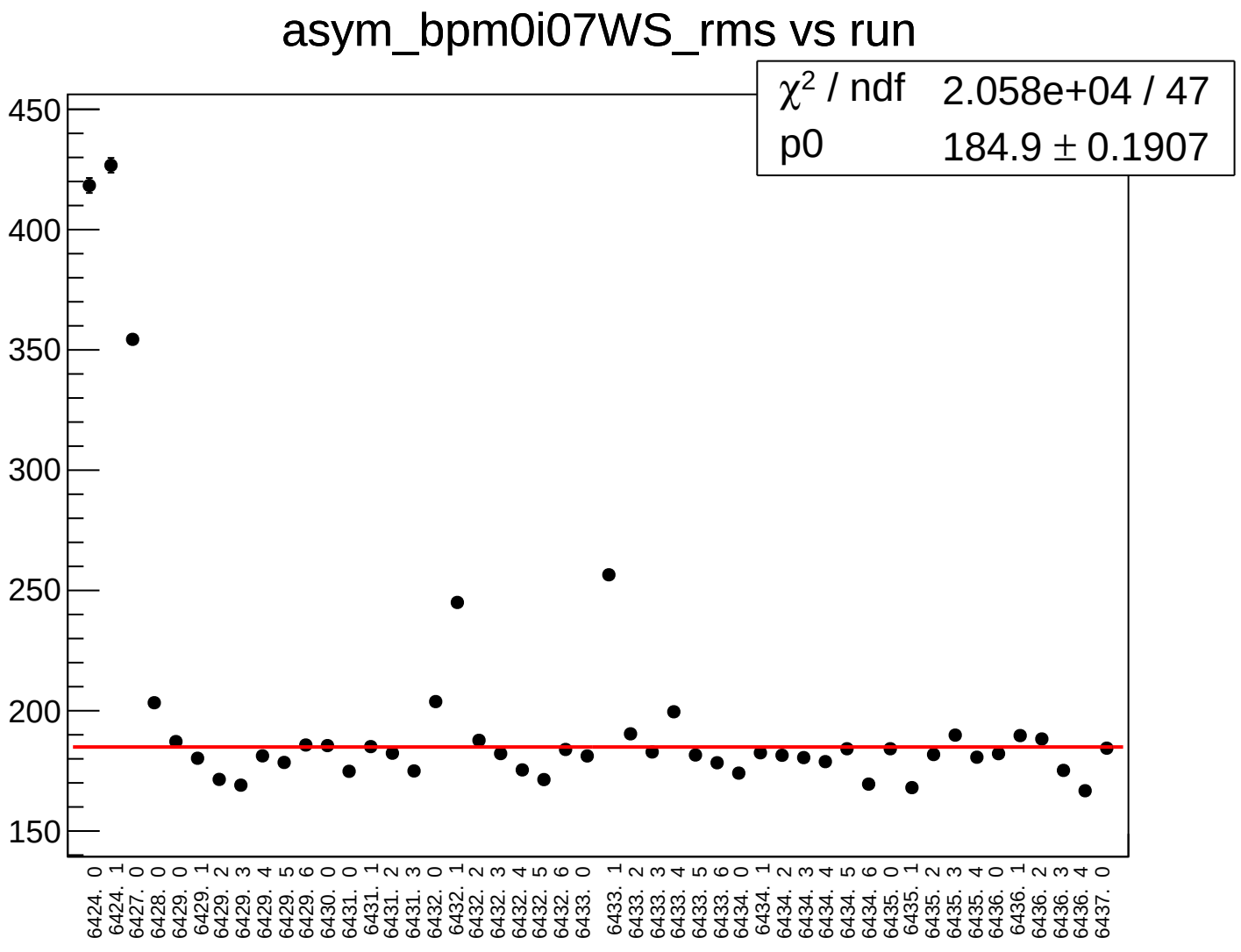

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.45e+04 / 47
p0 155.4 ± 0.1606
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

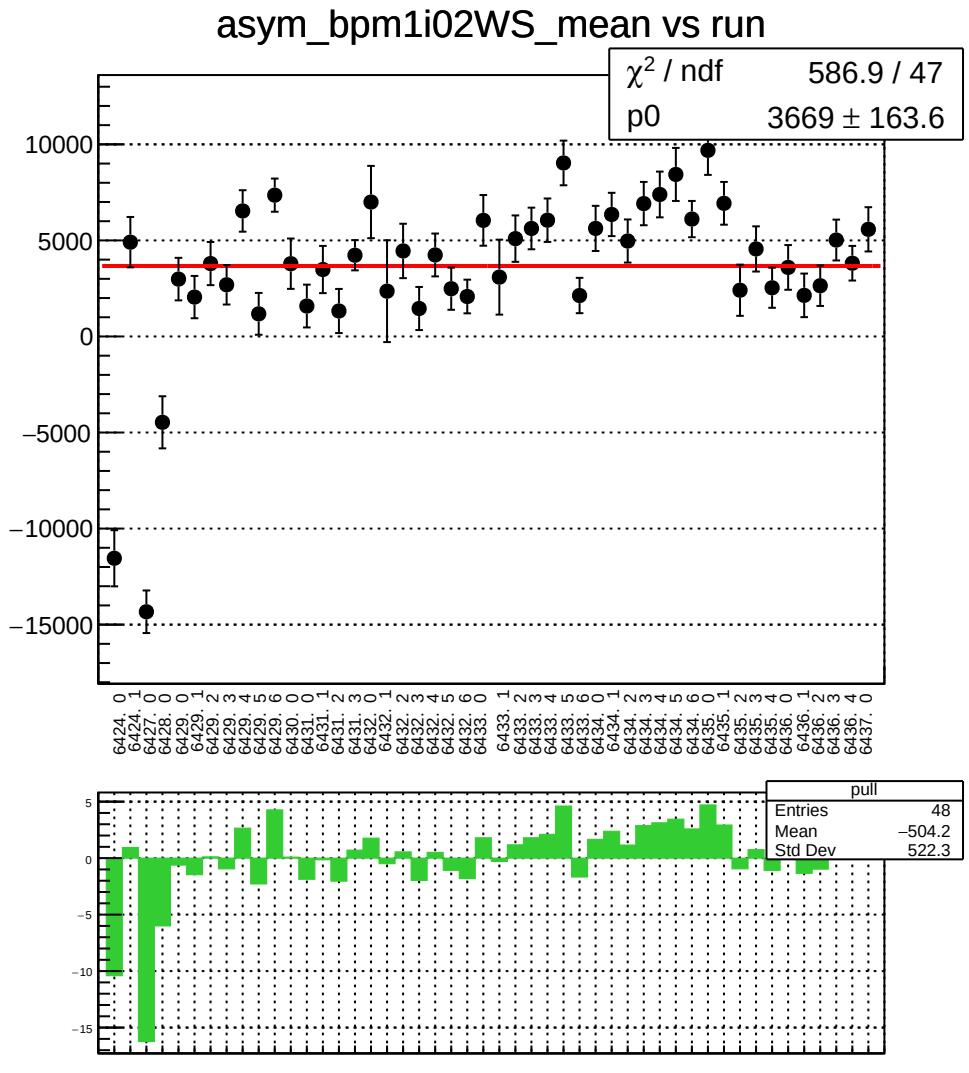

asym_bpm0i05WS_mean vs run
χ² / ndf 250 / 47
p0 1458 ± 229.7
pull
Entries 48
Mean −440.1
Std Dev 463.5

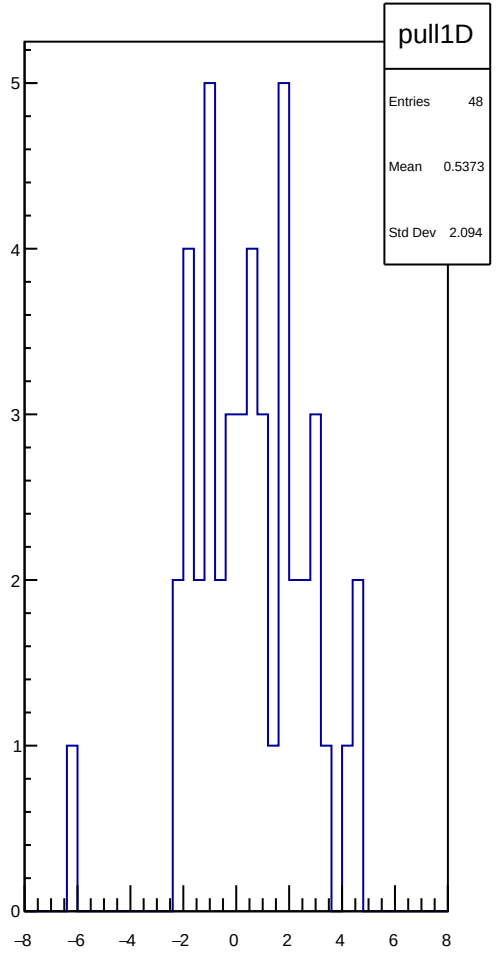

pull1D
Entries 48
Mean −0.02897
Std Dev 2.282

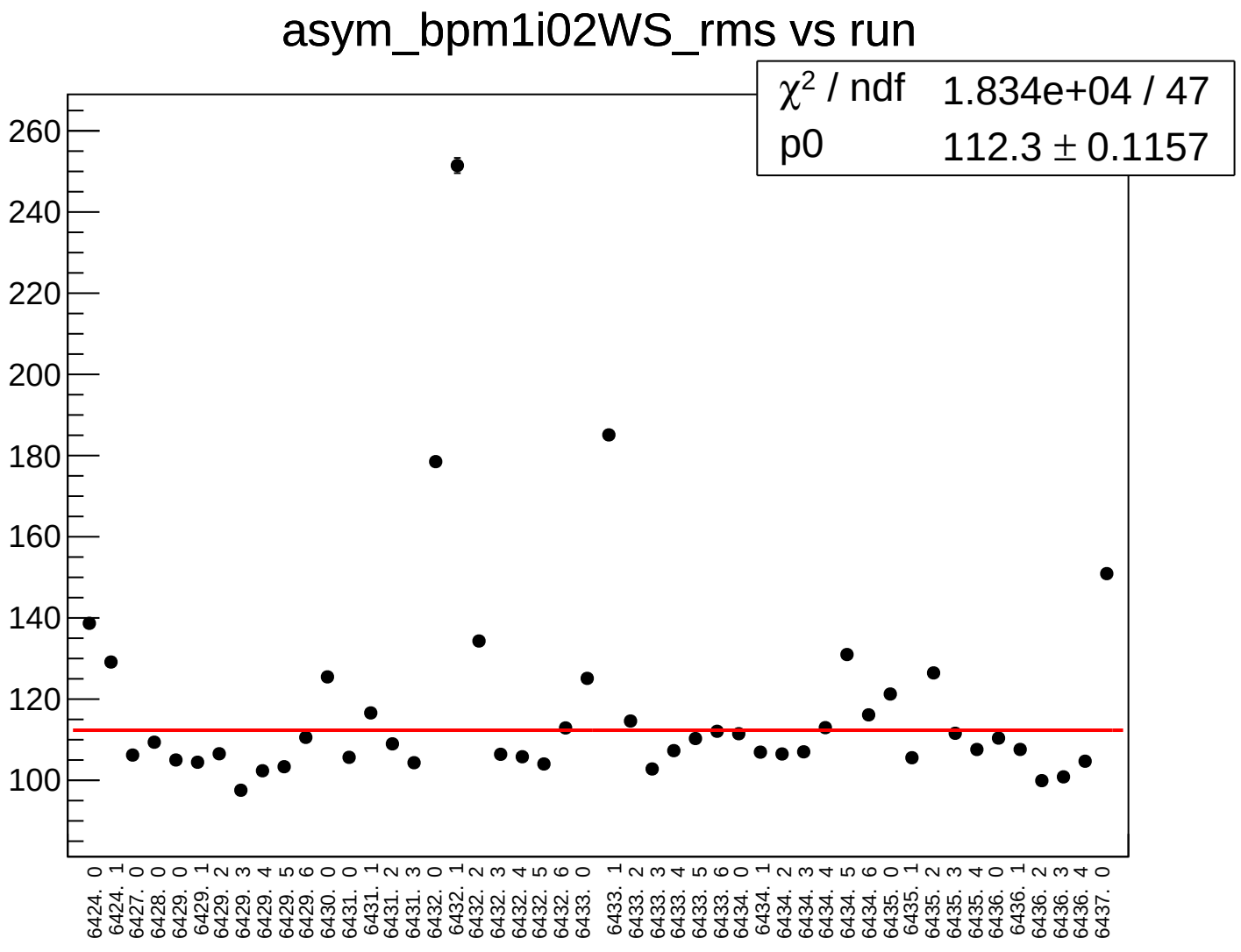

asym_bpm0i05WS_rms vs run
χ² / ndf 2.803e+04 / 47
p0 156.9 ± 0.1624
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

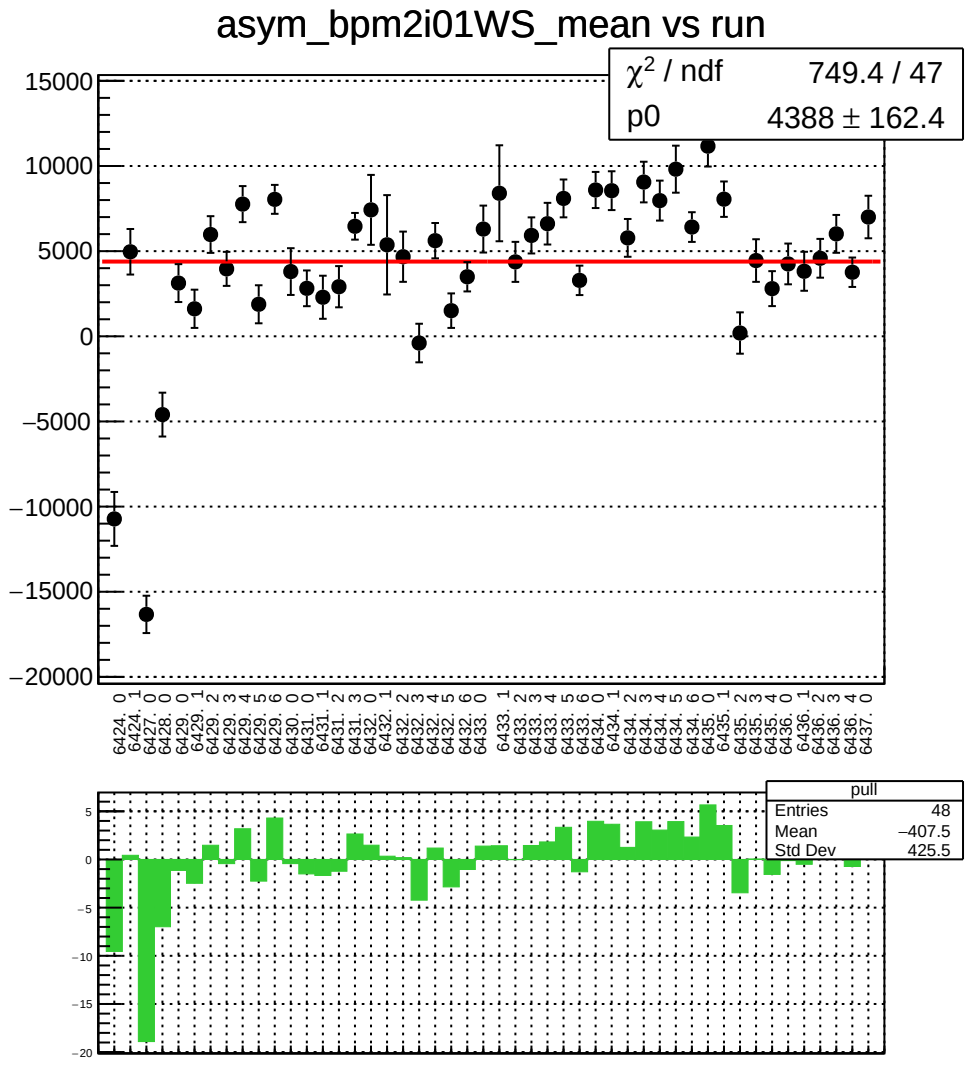

asym_bpm0i07WS_mean vs run
χ² / ndf 64.78 / 47
p0 1368 ± 269.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −242.3
Std Dev 265.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.02157
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

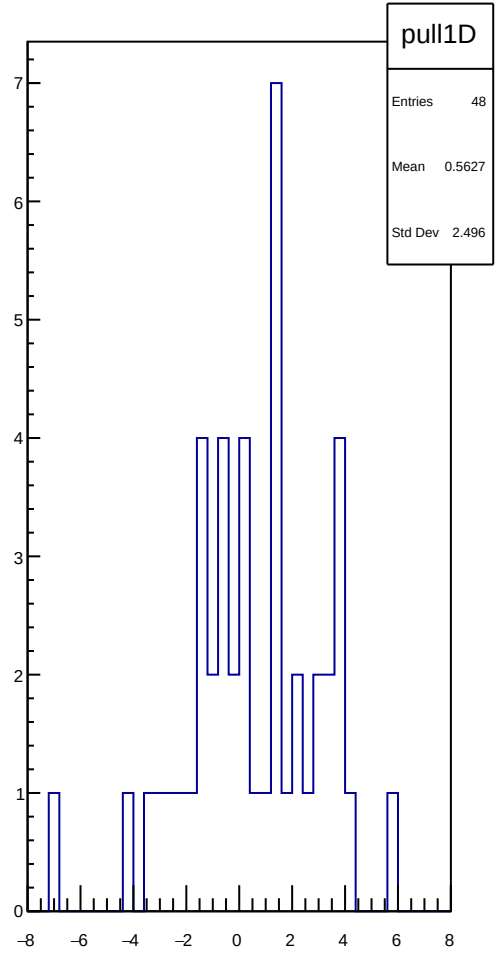

asym_bpm0i07WS_rms vs run
χ² / ndf 2.058e+04 / 47
p0 184.9 ± 0.1907
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

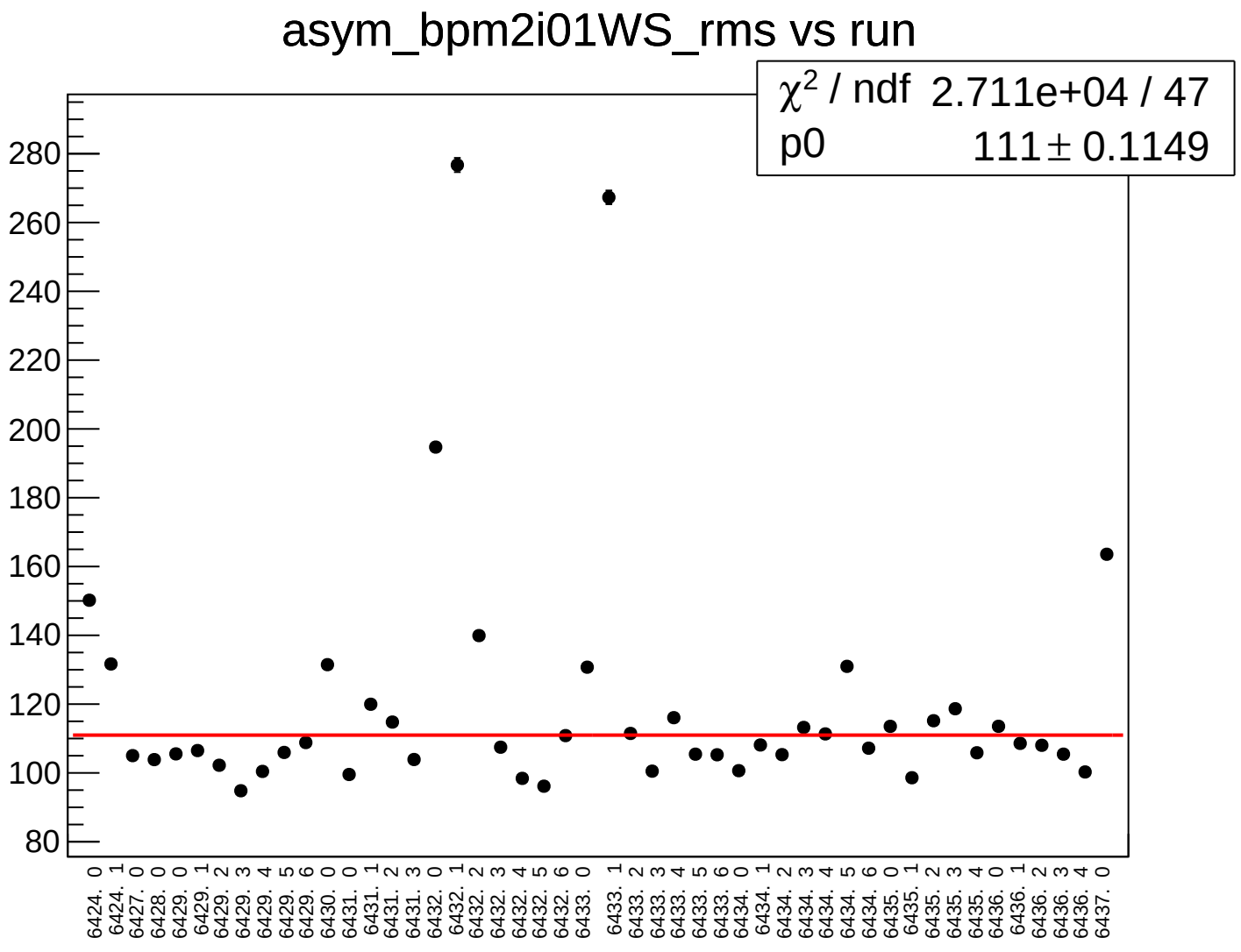

asym_bpm1i02WS_mean vs run
χ² / ndf 586.9 / 47
p0 3669 ± 163.6
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −504.2
Std Dev 522.3
5
0
−5
−10
−15

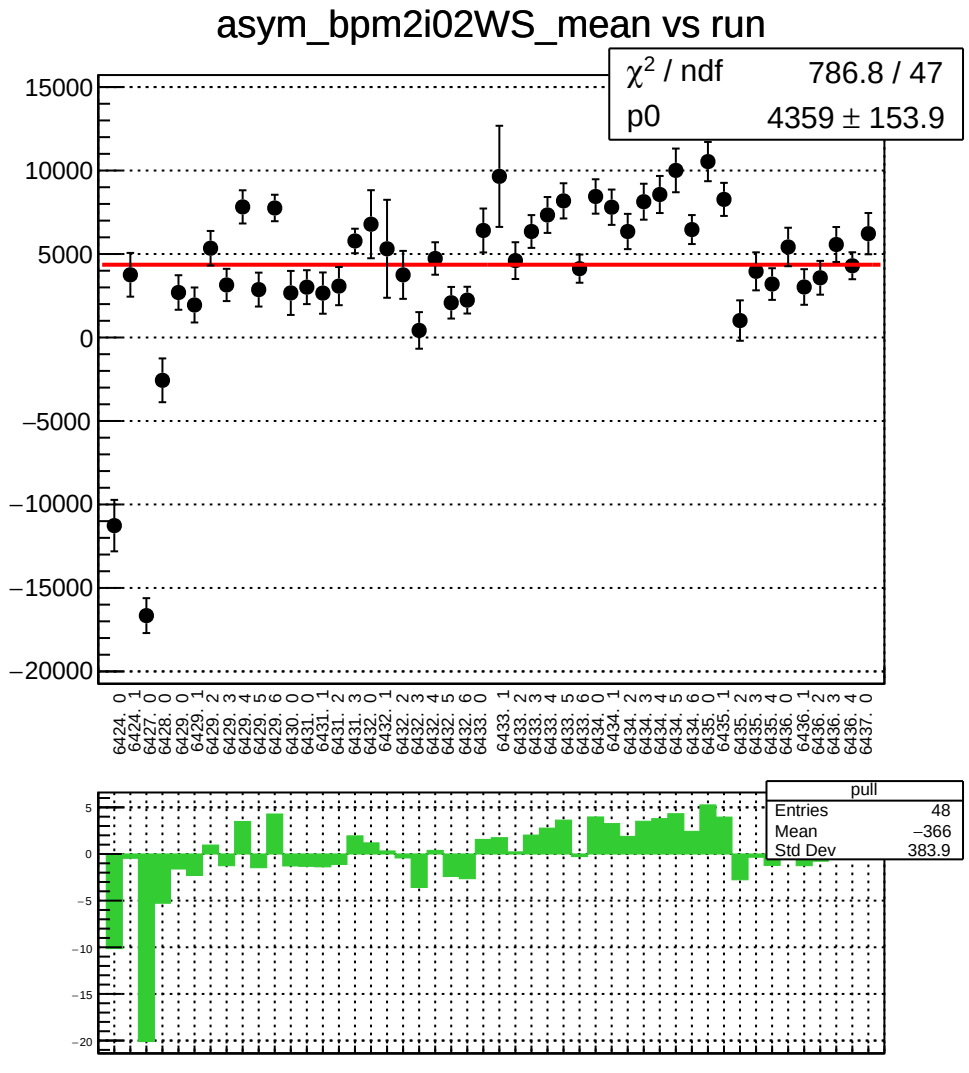

pull1D
Entries 48
Mean 0.5373
Std Dev 2.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

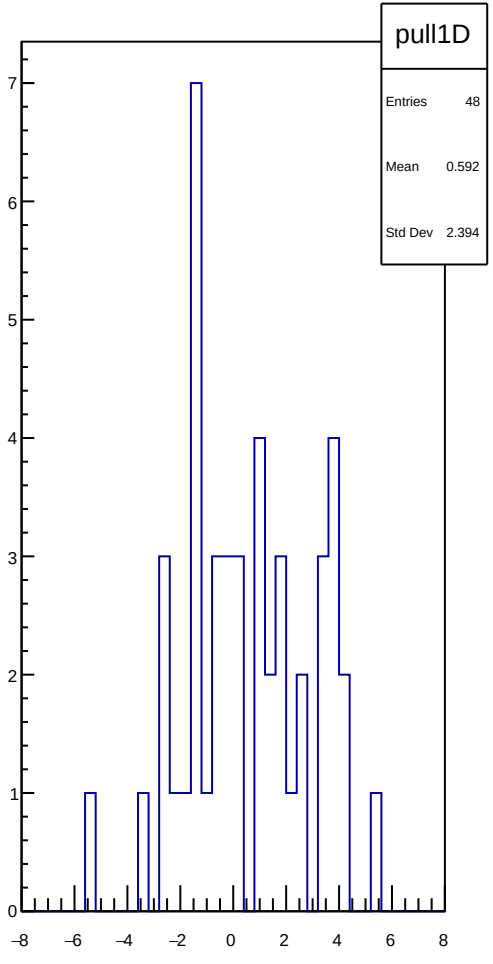

asym_bpm1i02WS_rms vs run
χ² / ndf 1.834e+04 / 47
p0 112.3 ± 0.1157
260
240
220
200
180
160
140
120
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

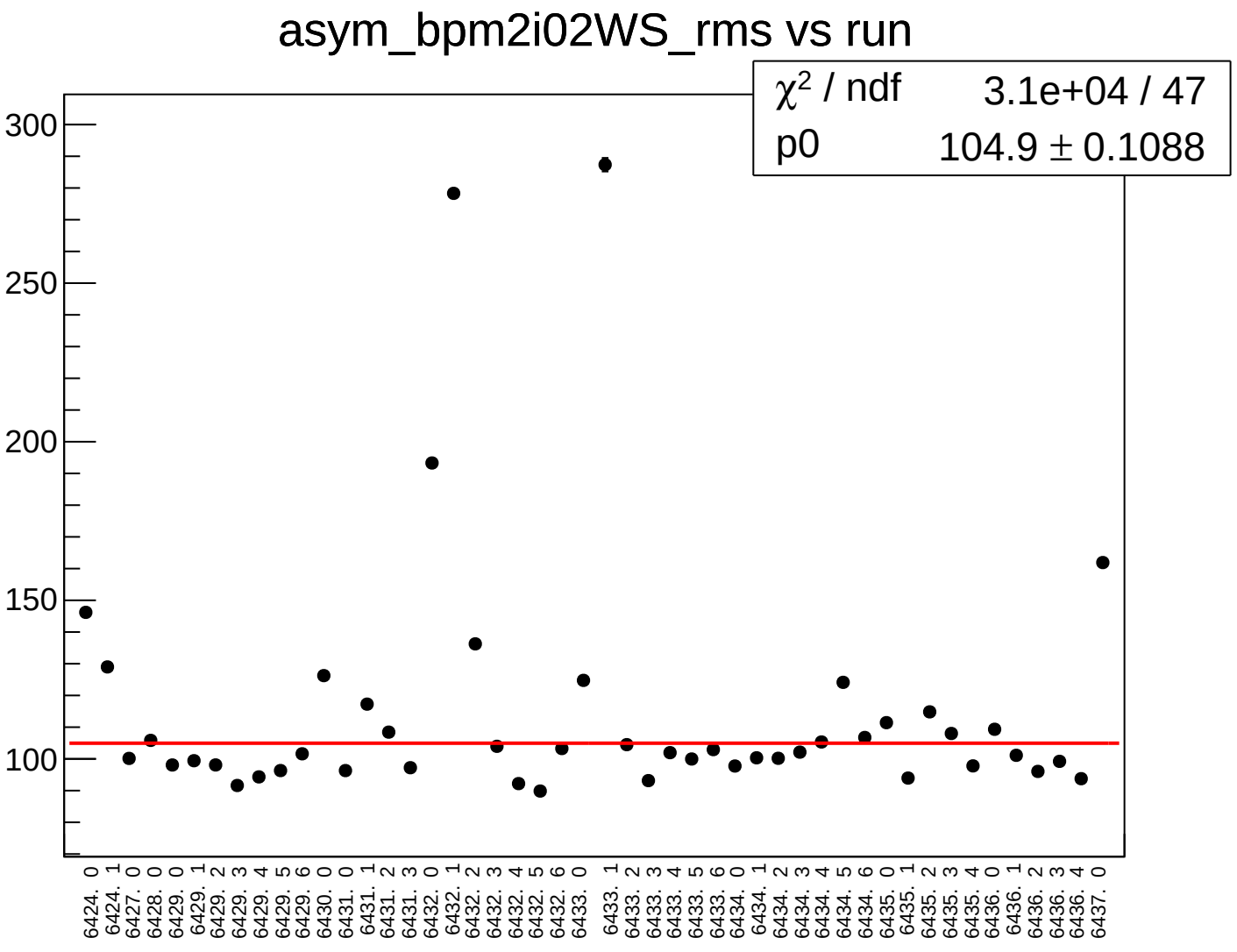

asym_bpm2i01WS_mean vs run
χ² / ndf 749.4 / 47
p0 4388 ± 162.4
pull
Entries 48
Mean −407.5
Std Dev 425.5

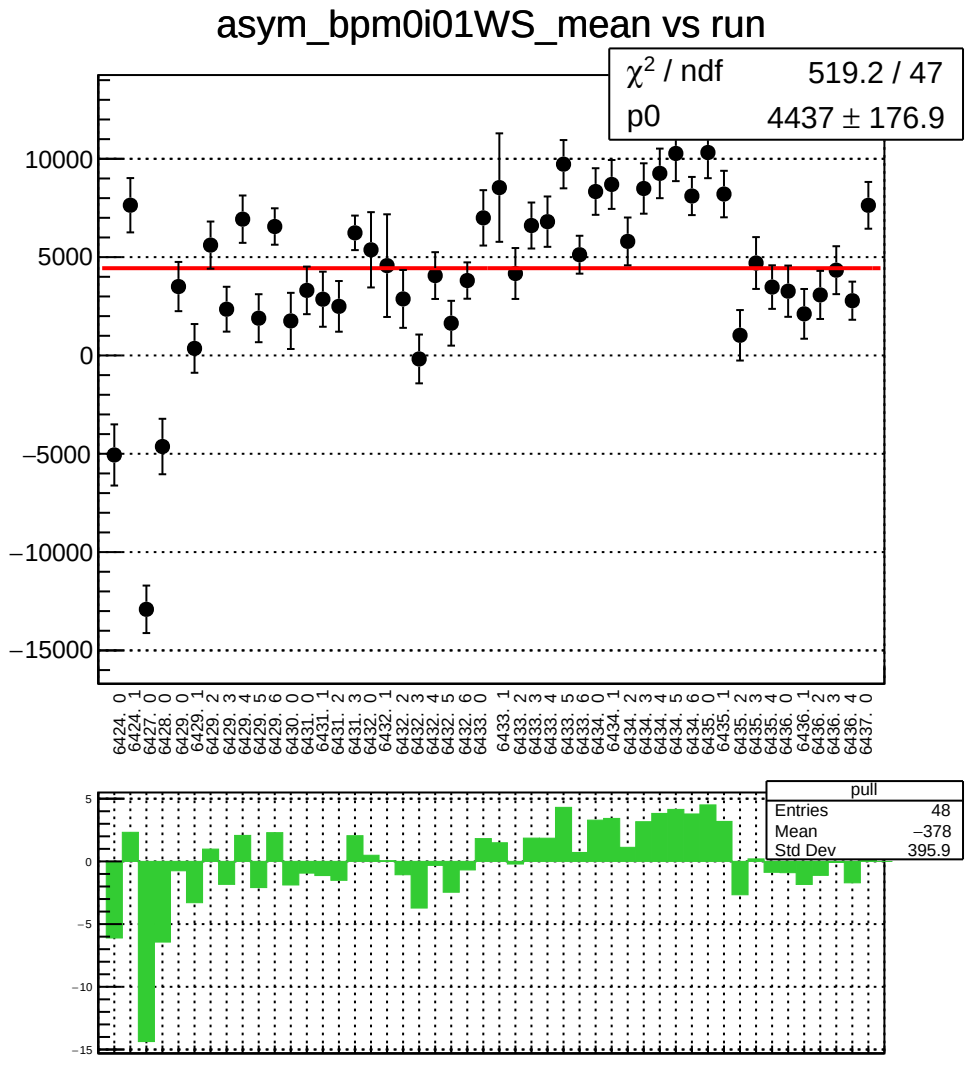

pull1D
Entries 48
Mean 0.5627
Std Dev 2.496

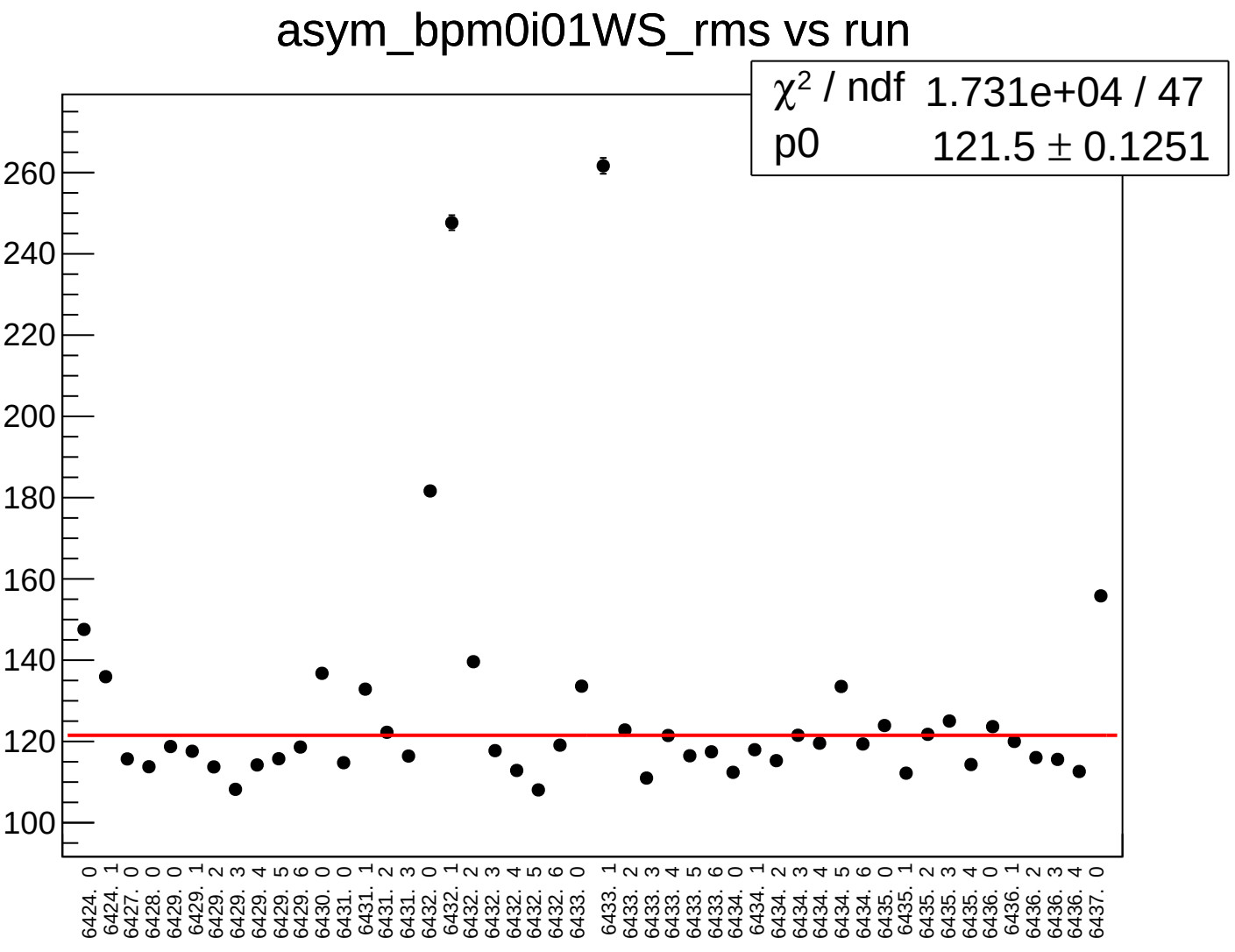

asym_bpm2i01WS_rms vs run
χ² / ndf 2.711e+04 / 47
p0 111 ± 0.1149
280
260
240
220
200
180
160
140
120
100
80
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

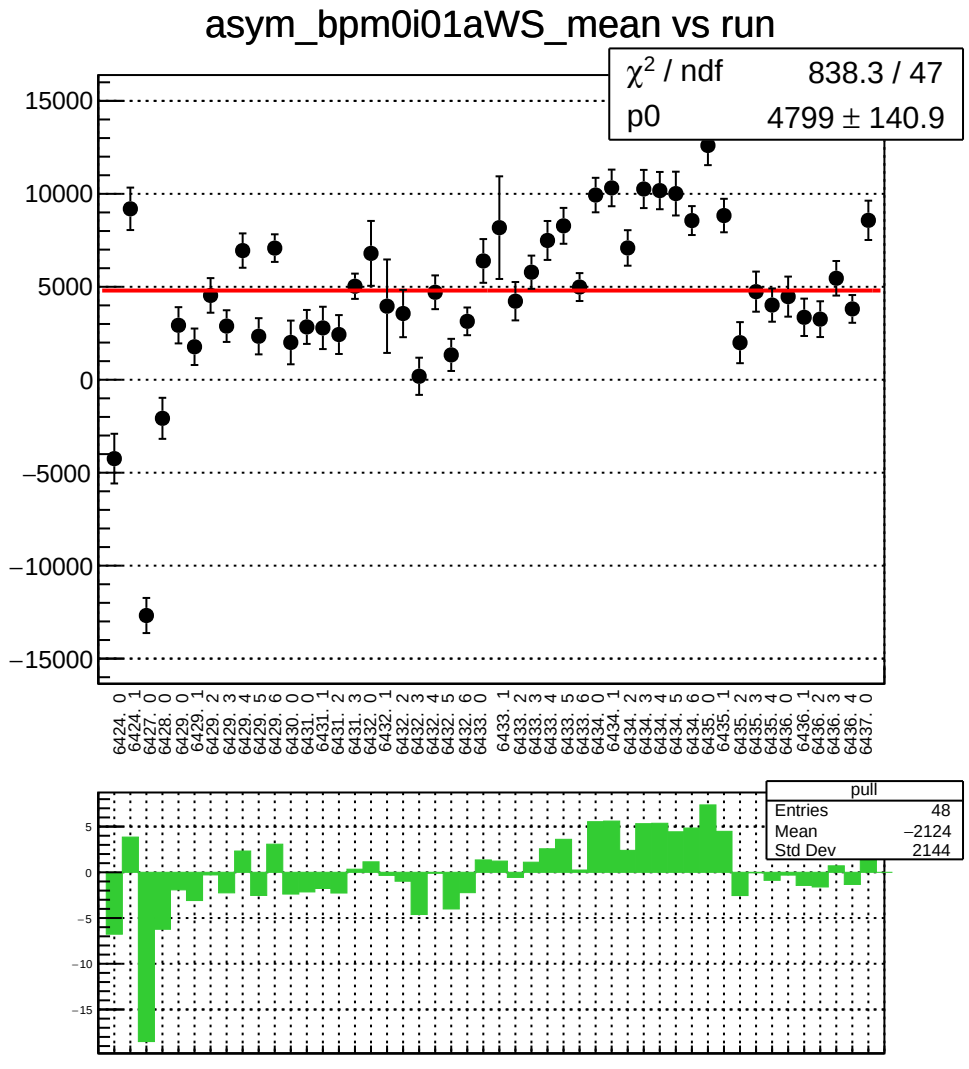

asym_bpm2i02WS_mean vs run
χ² / ndf 786.8 / 47
p0 4359 ± 153.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −366
Std Dev 383.9
5
0
−5
−10
−15
−20

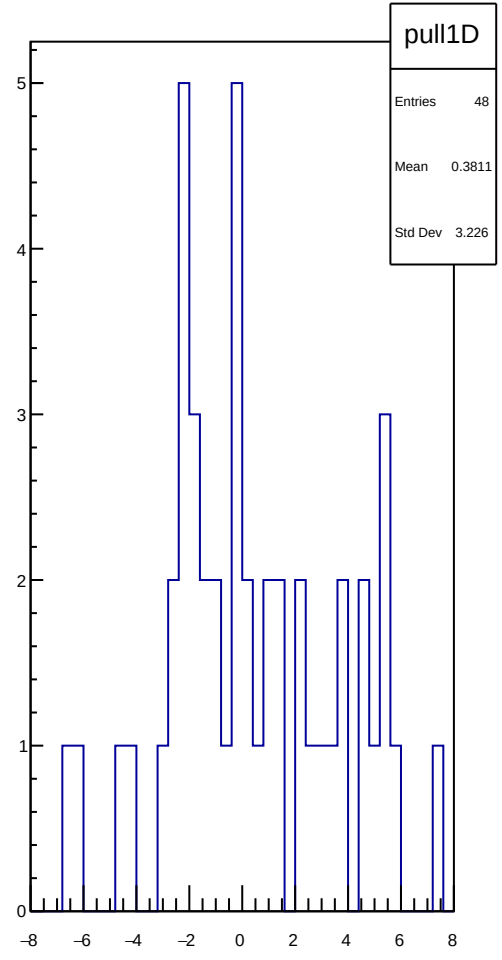

pull1D
Entries 48
Mean 0.592
Std Dev 2.394
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

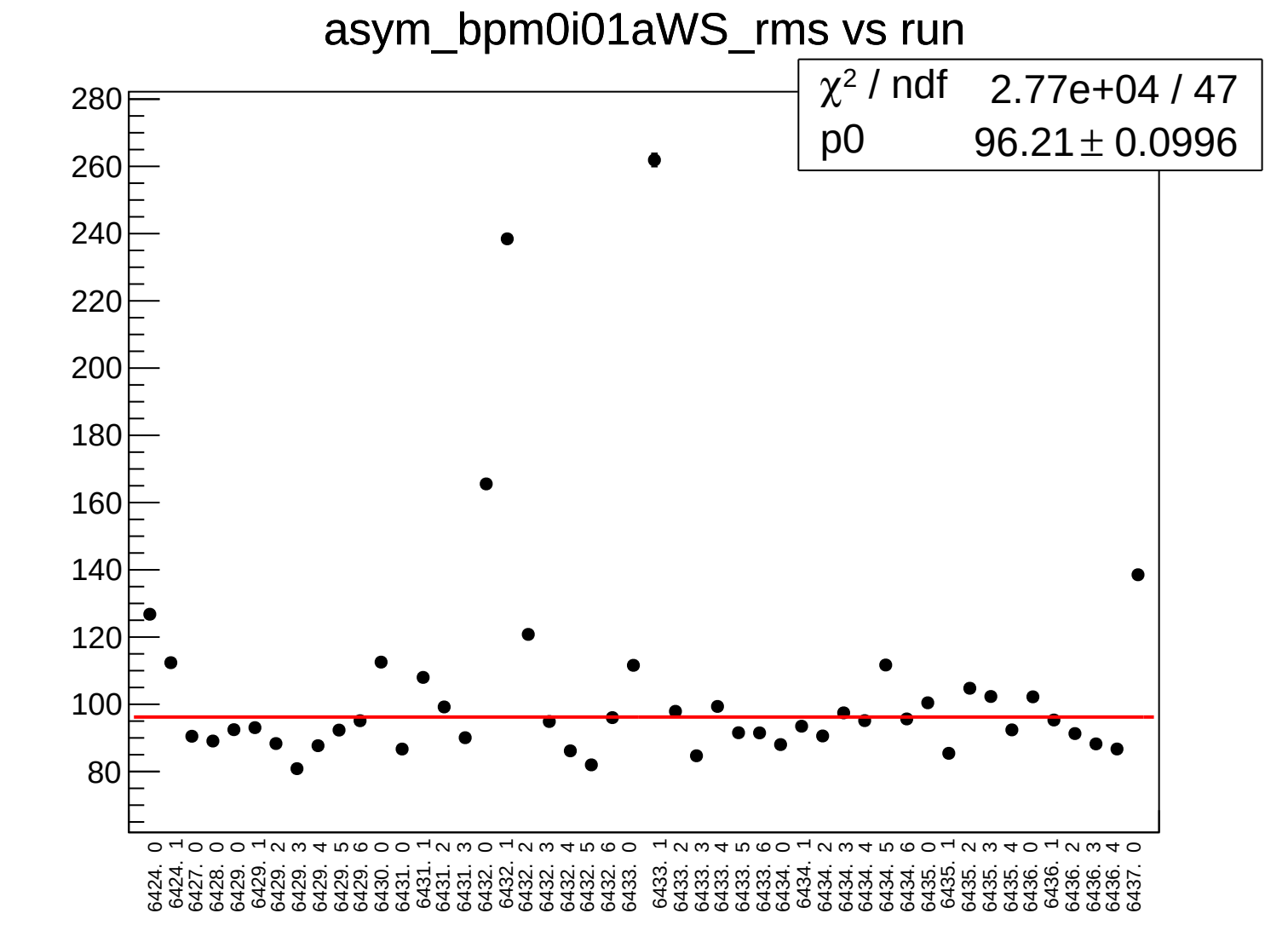

asym_bpm2i02WS_rms vs run
χ² / ndf 3.1e+04 / 47
p0 104.9 ± 0.1088
300
250
200
150
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0i01WS_mean vs run
χ² / ndf 519.2 / 47
p0 4437 ± 176.9
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −378
Std Dev 395.9
5
0
−5
−10
−15
pull1D
Entries 48
Mean 0.2572
Std Dev 2.567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01WS_rms vs run
χ² / ndf 1.731e+04 / 47
p0 121.5 ± 0.1251
260
240
220
200
180
160
140
120
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0i01aWS_mean vs run
χ² / ndf 838.3 / 47
p0 4799 ± 140.9
15000
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −2124
Std Dev 2144
5
0
−5
−10
−15


pull1D
Entries 48
Mean 0.3811
Std Dev 3.226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01aWS_rms vs run
χ² / ndf 2.77e+04 / 47
p0 96.21 ± 0.0996
280
260
240
220
200
180
160
140
120
100
80
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
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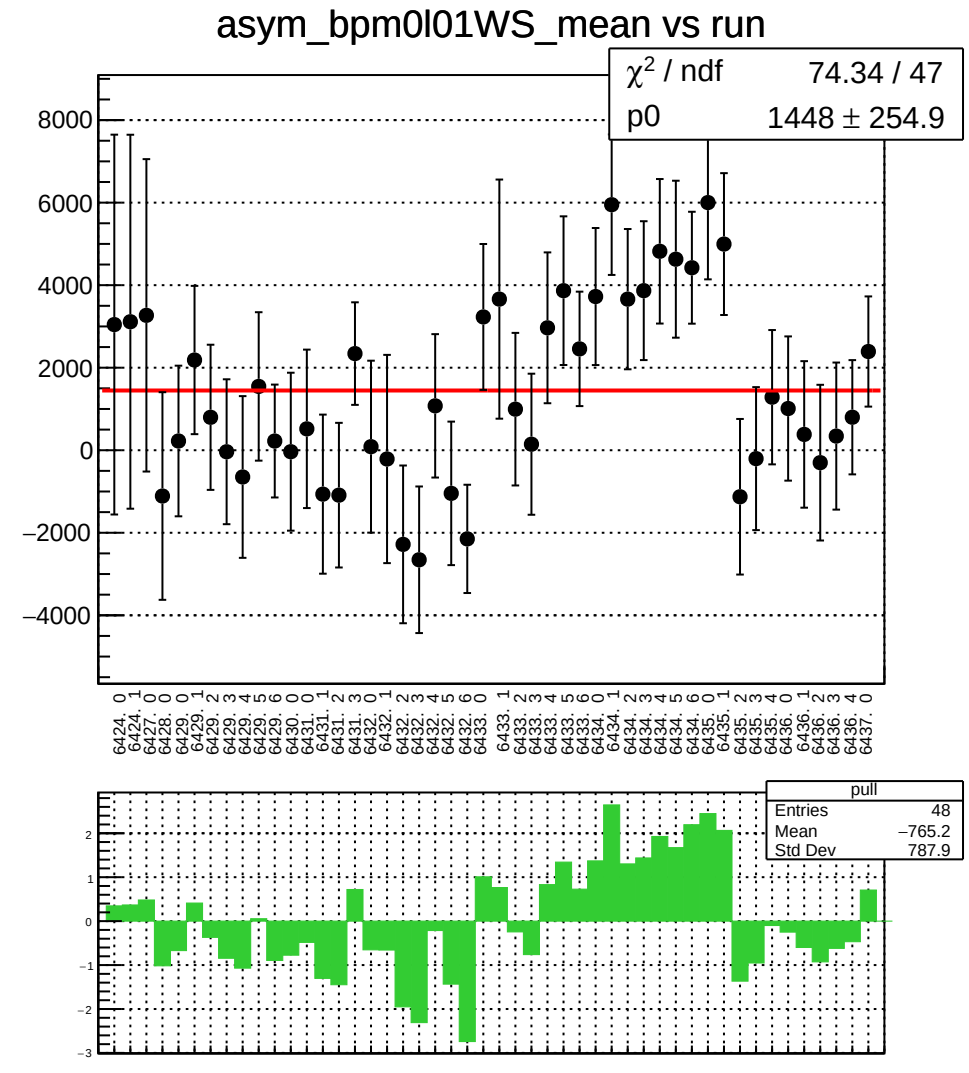
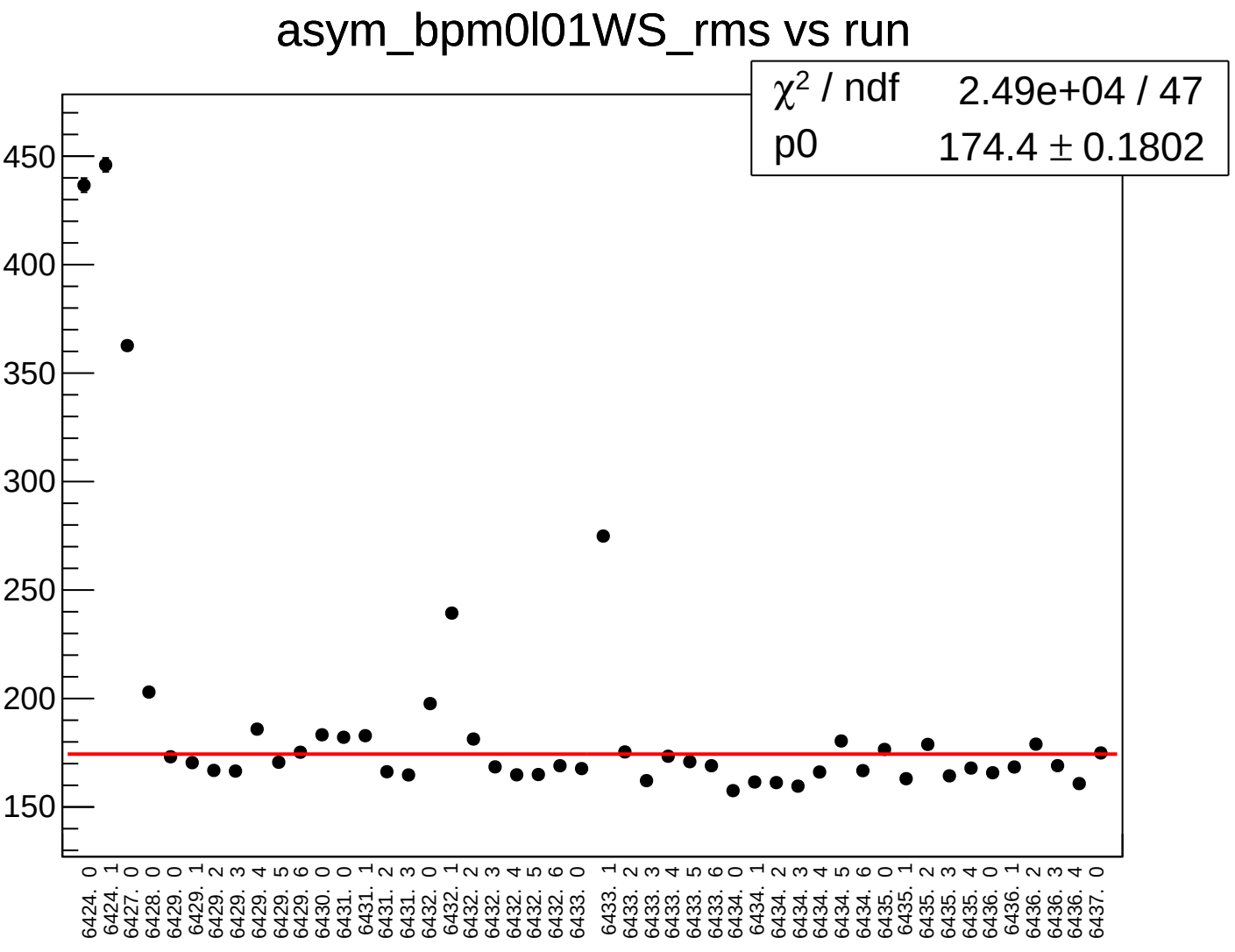
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0l01WS_mean vs run
χ² / ndf 74.34 / 47
p0 1448 ± 254.9
8000
6000
4000
2000
0
−2000
−4000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −765.2
Std Dev 787.9
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.006226
Std Dev 1.245
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l01WS_rms vs run
χ² / ndf 2.49e+04 / 47
p0 174.4 ± 0.1802
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
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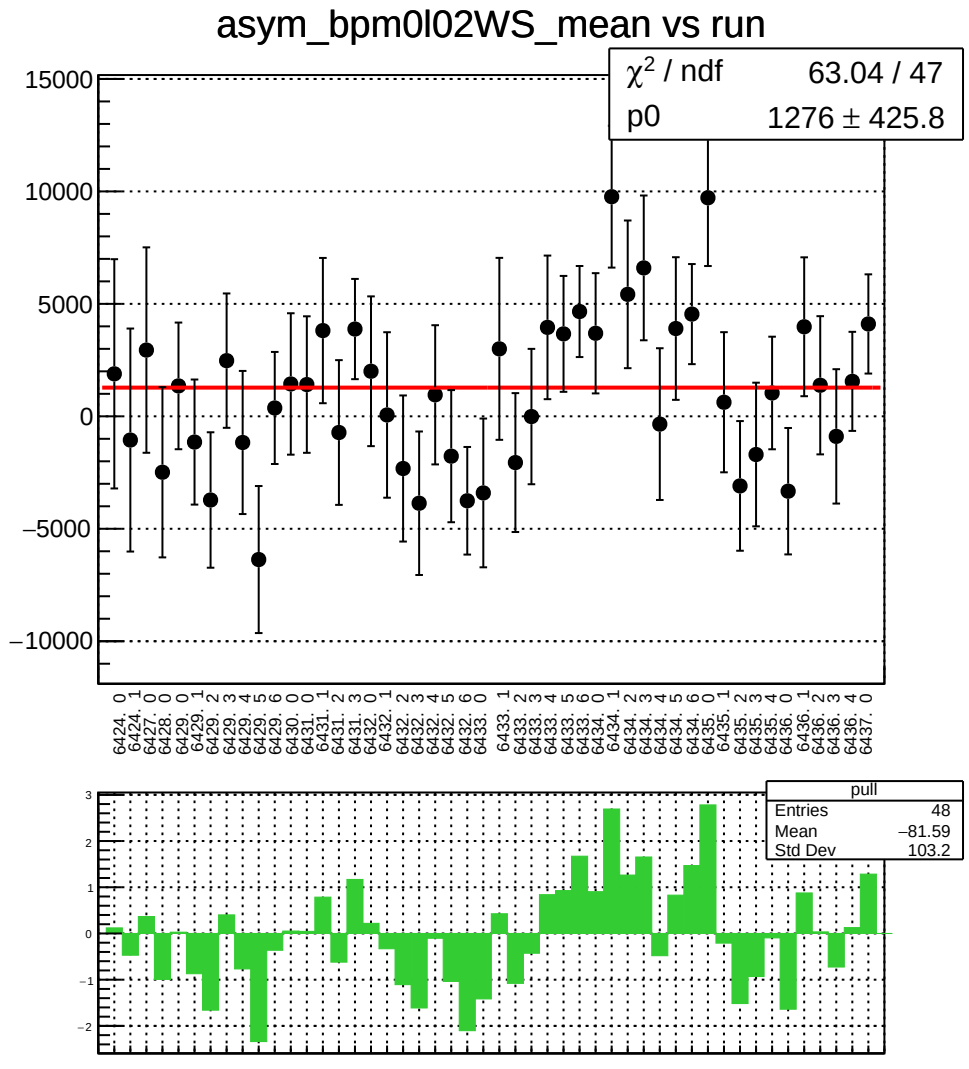
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0l02WS_mean vs run
χ² / ndf 63.04 / 47
p0 1276 ± 425.8
15000
10000
5000
0
−5000
−10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
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6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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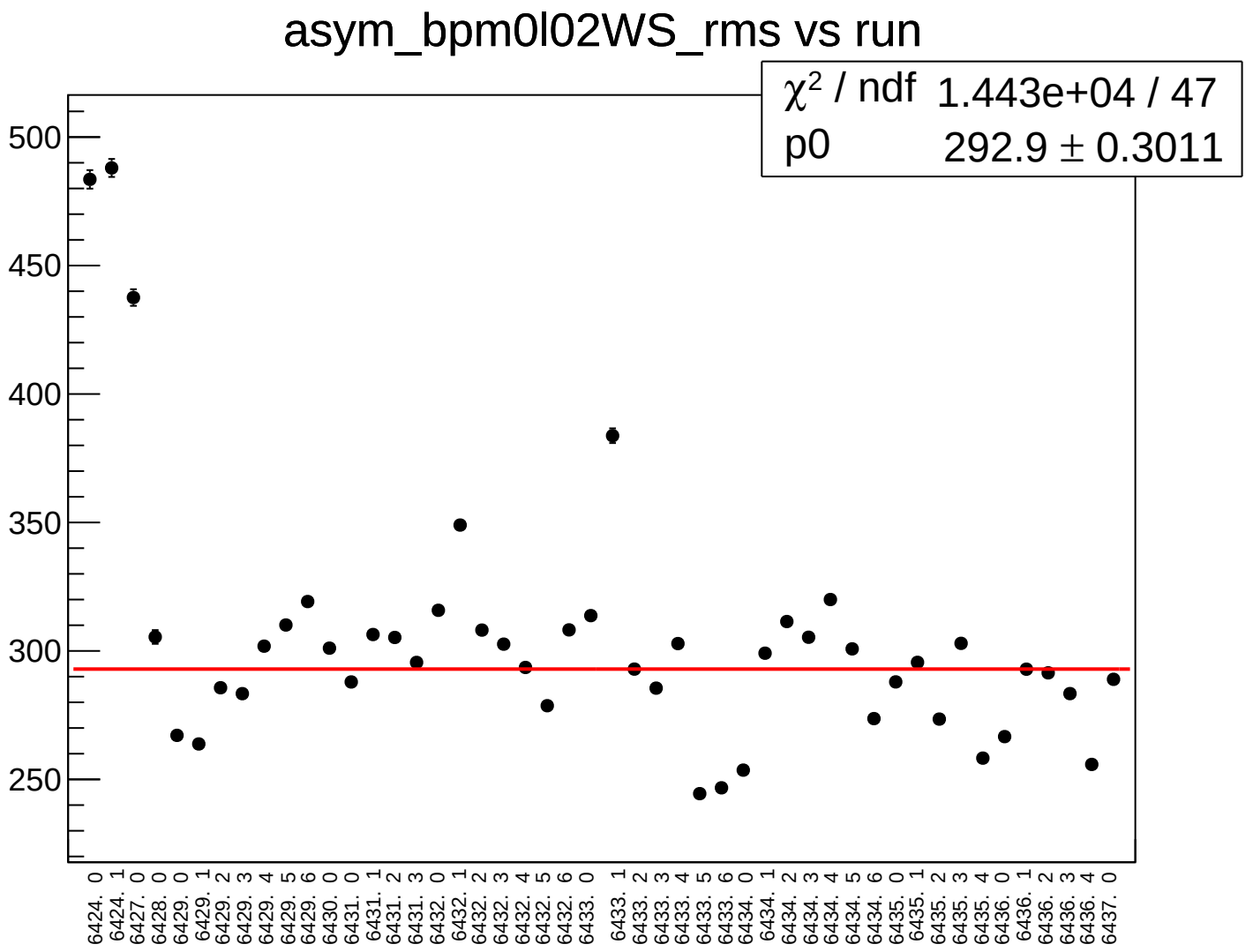
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −81.59
Std Dev 103.2
3
2
1
0
−1
−2
pull1D
Entries 48
Mean −0.04029
Std Dev 1.145
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l02WS_rms vs run
χ² / ndf 1.443e+04 / 47
p0 292.9 ± 0.3011
500
450
400
350
300
250
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
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6432. 6
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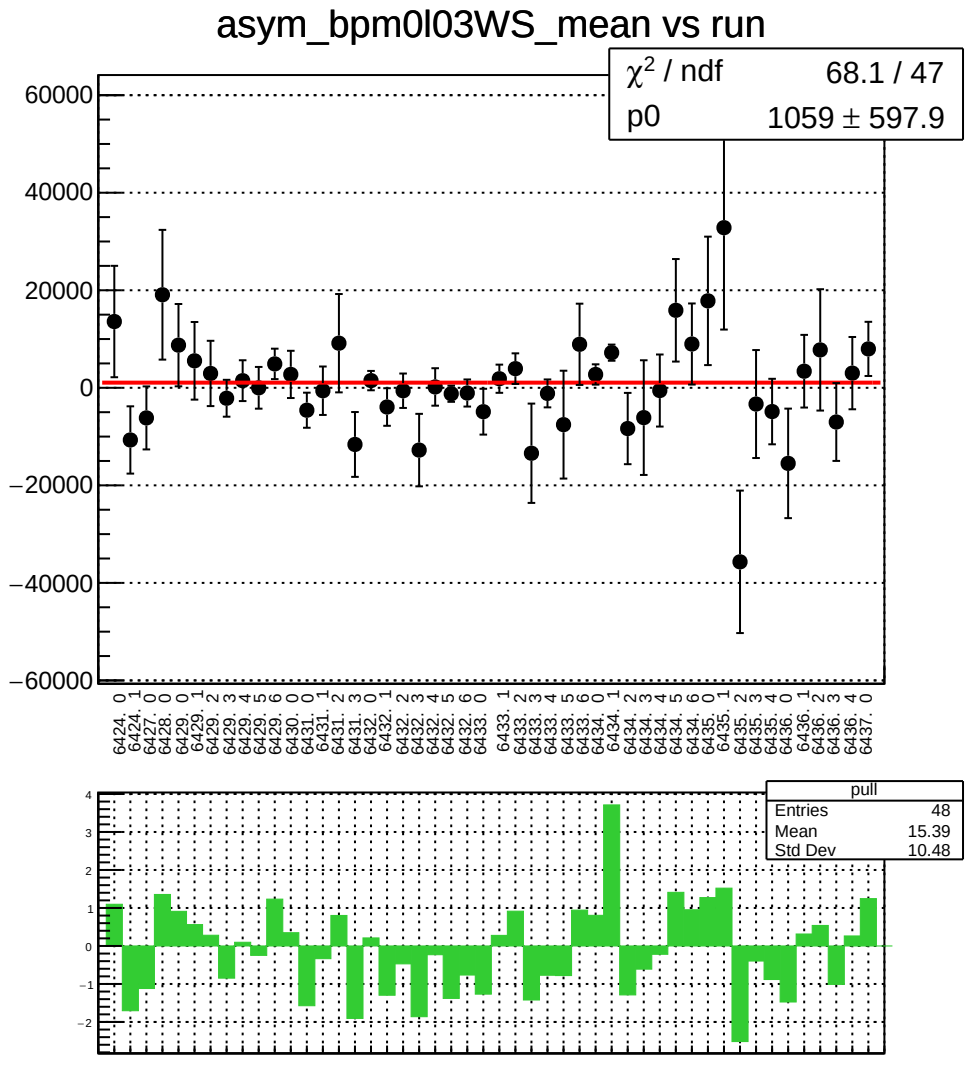
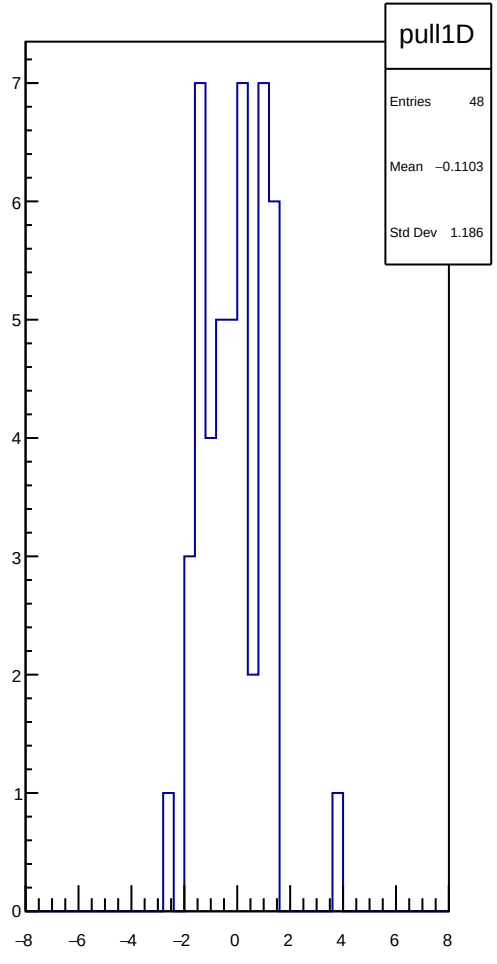
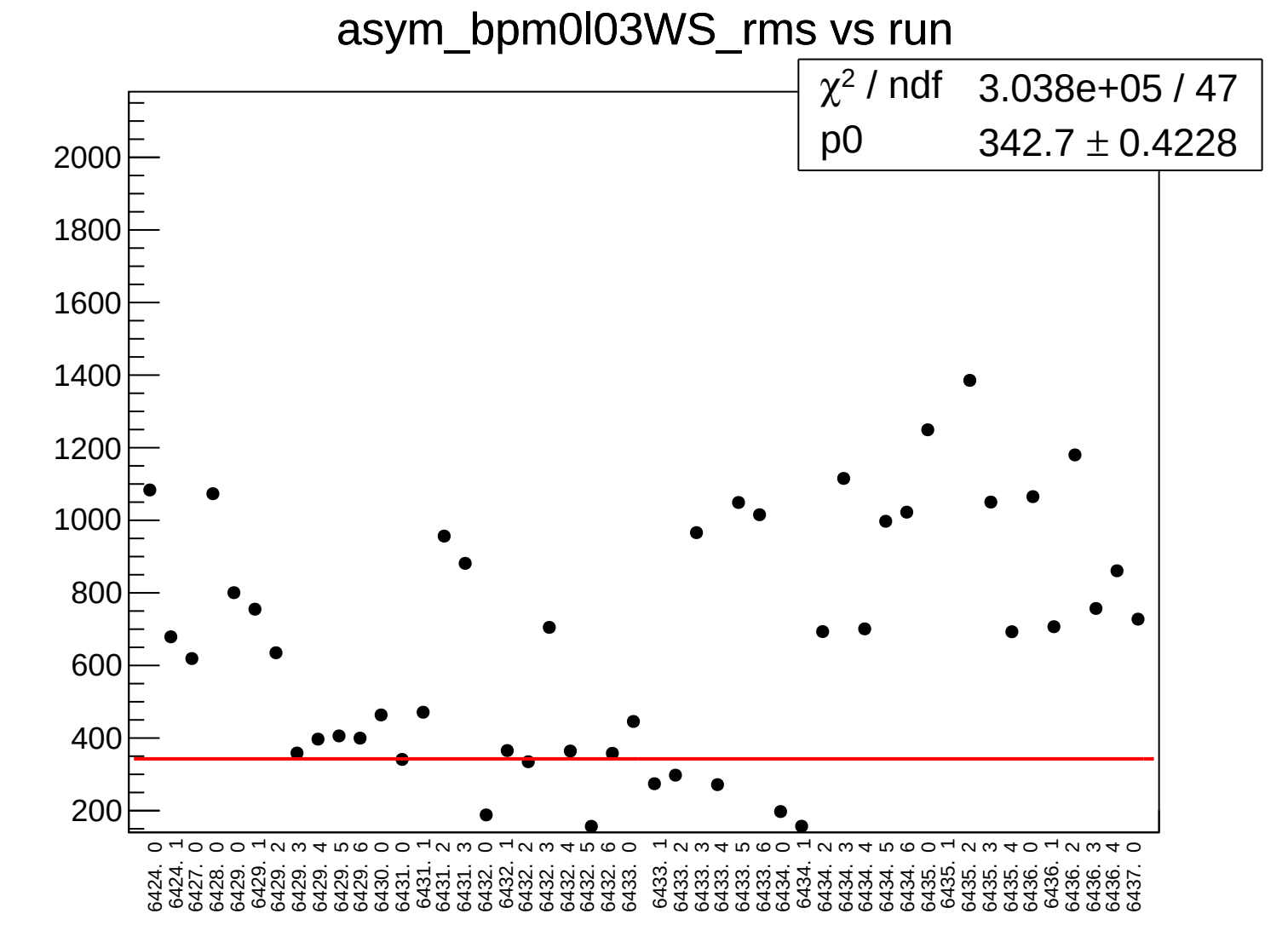
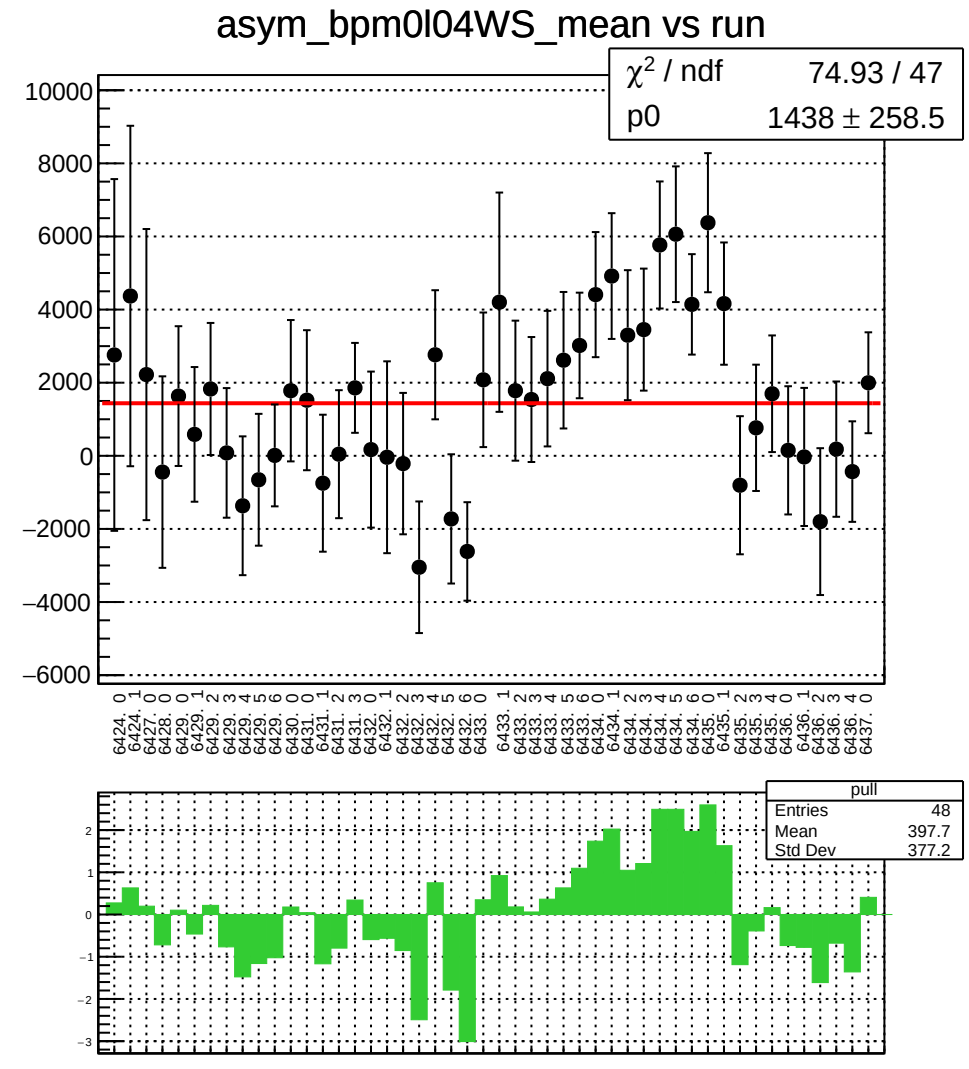
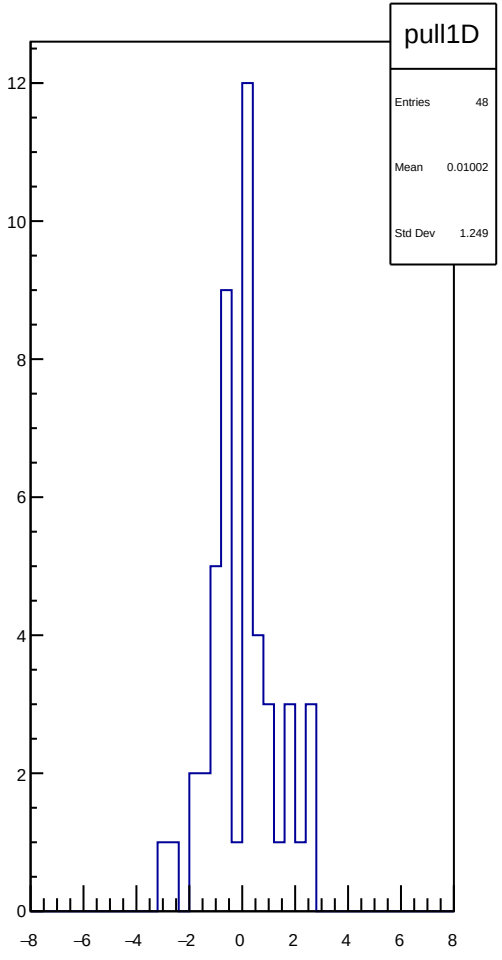
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

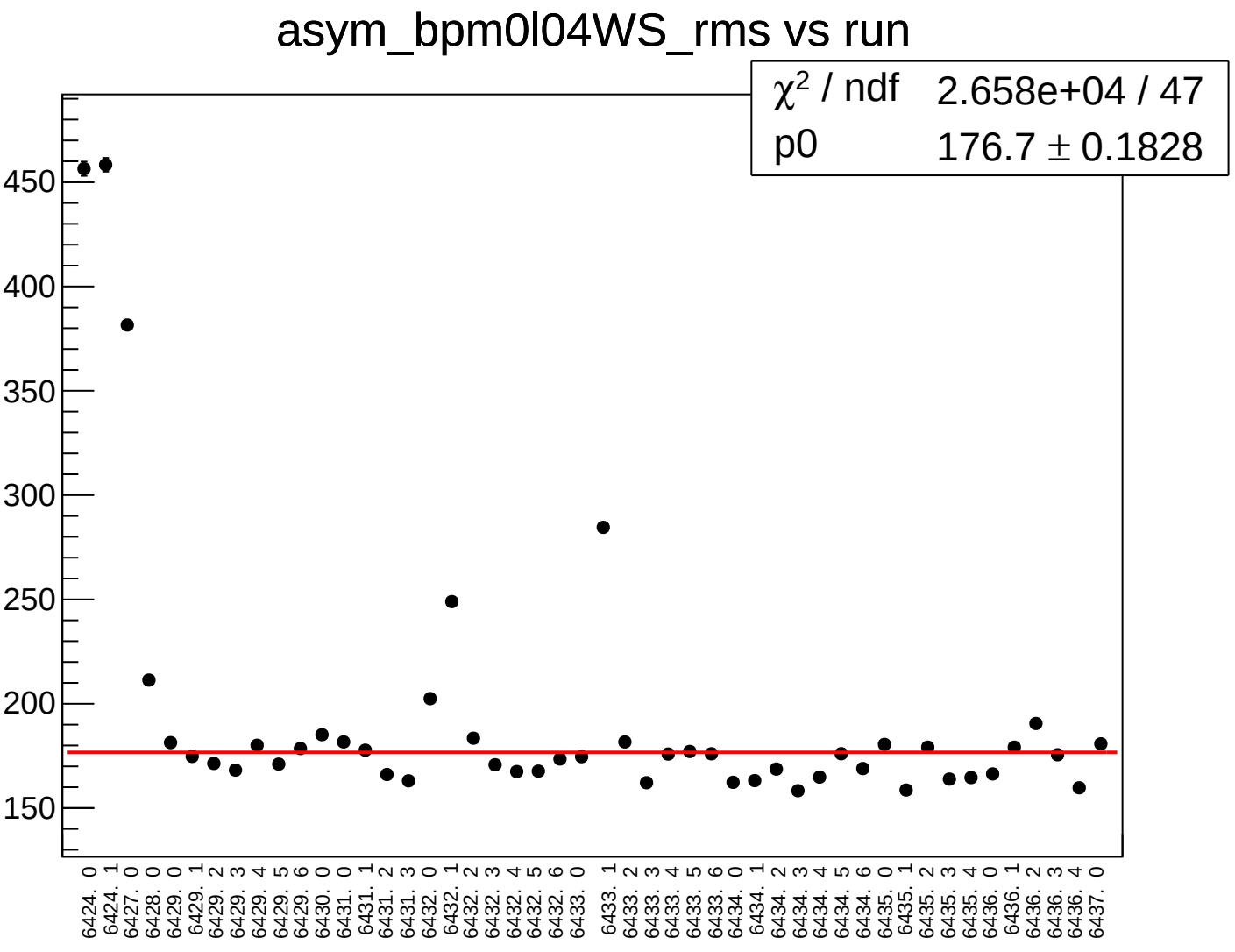

asym_bpm0l03WS_mean vs run
χ² / ndf 68.1 / 47
p0 1059 ± 597.9
pull
Entries 48
Mean 15.39
Std Dev 10.48

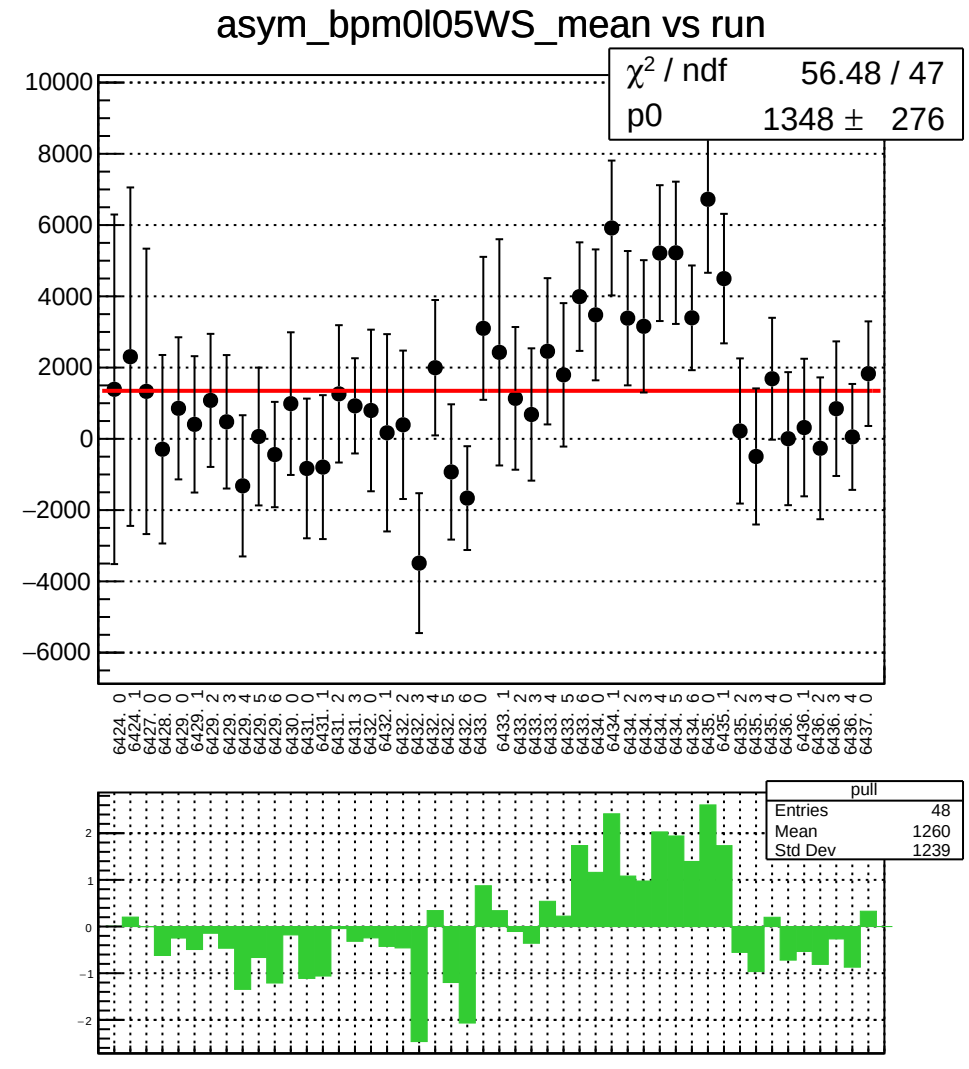

pull1D
Entries 48
Mean −0.1103
Std Dev 1.186

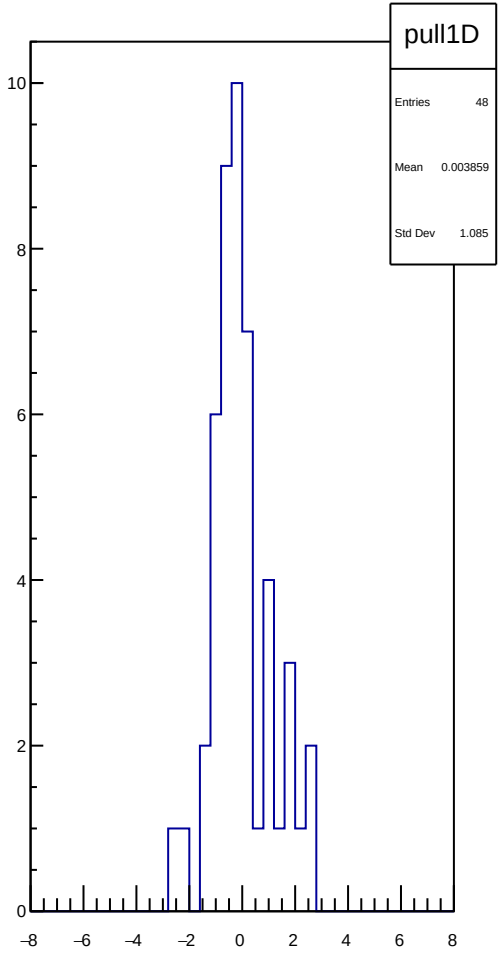

asym_bpm0l03WS_rms vs run
χ² / ndf 3.038e+05 / 47
p0 342.7 ± 0.4228
2000
1800
1600
1400
1200
1000
800
600
400
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

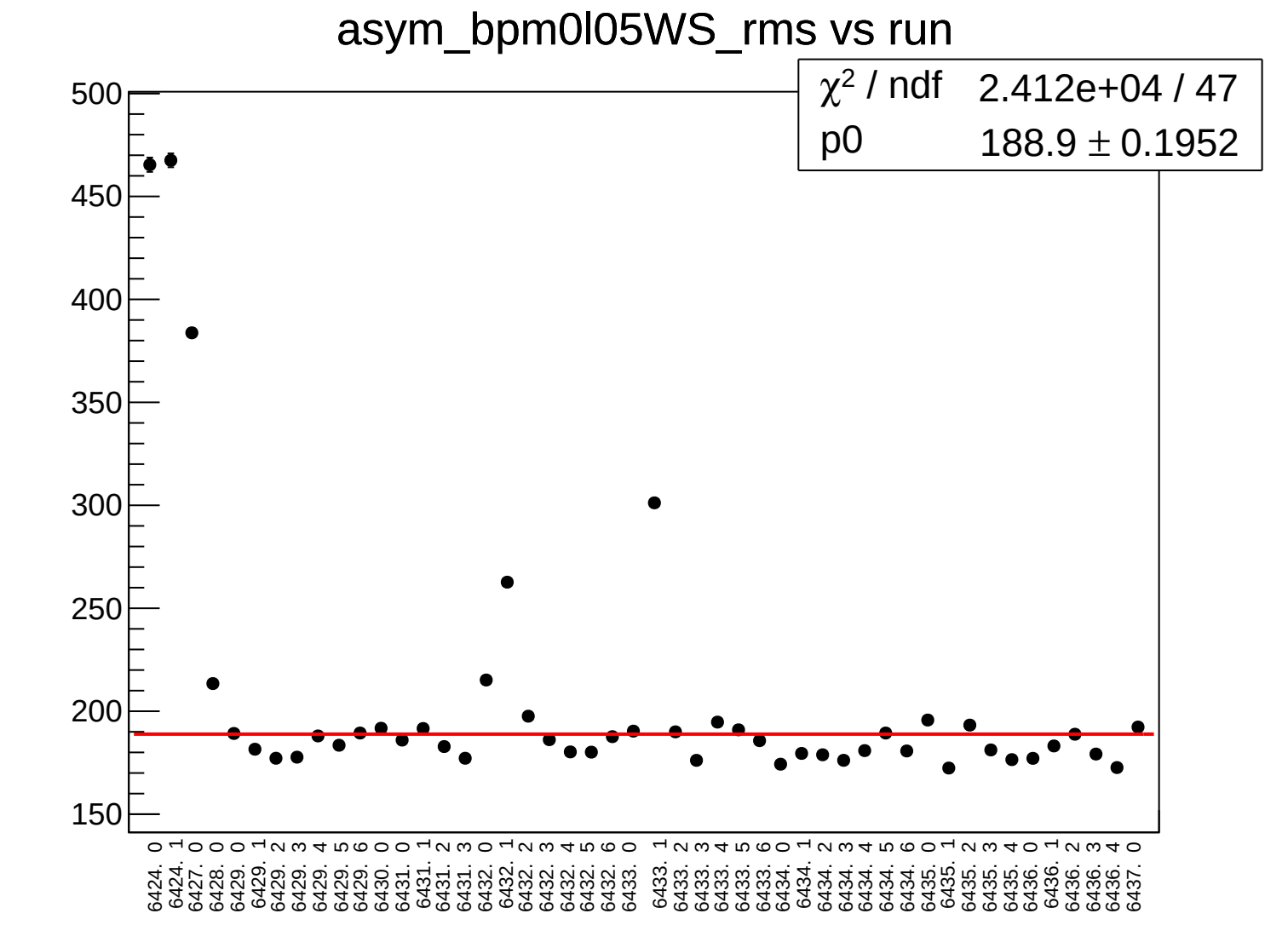

asym_bpm0l04WS_mean vs run
χ^2 / ndf 74.93 / 47
p0 1438 ± 258.5
pull
Entries 48
Mean 397.7
Std Dev 377.2

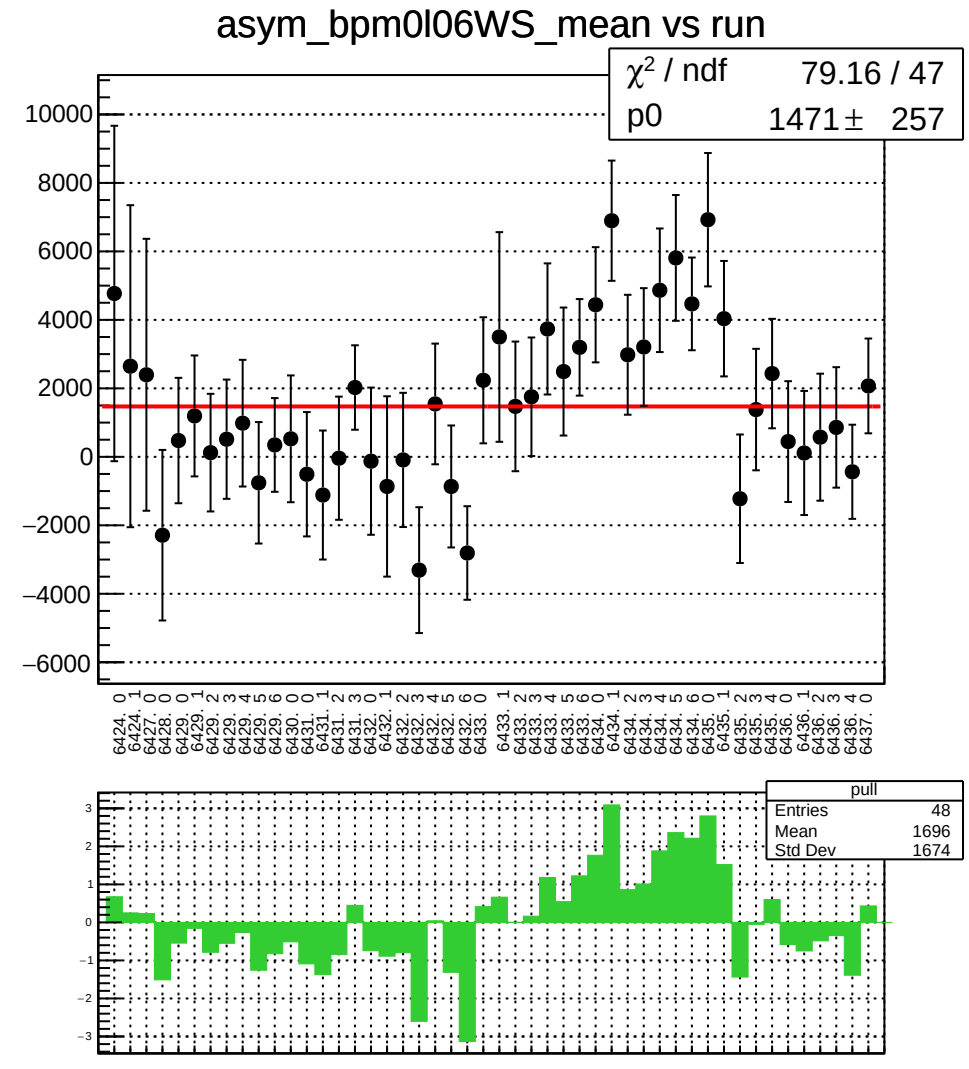

pull1D
Entries 48
Mean 0.01002
Std Dev 1.249

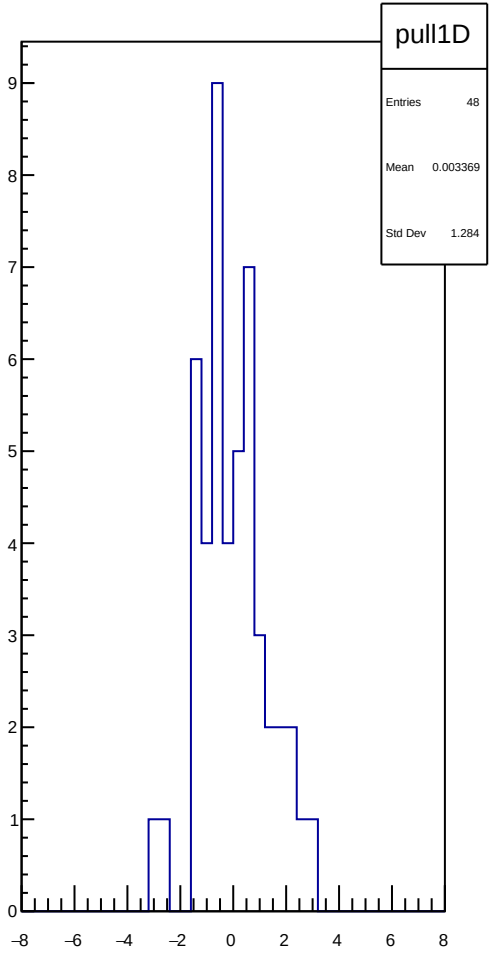

asym_bpm0l04WS_rms vs run
χ² / ndf 2.658e+04 / 47
p0 176.7 ± 0.1828
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

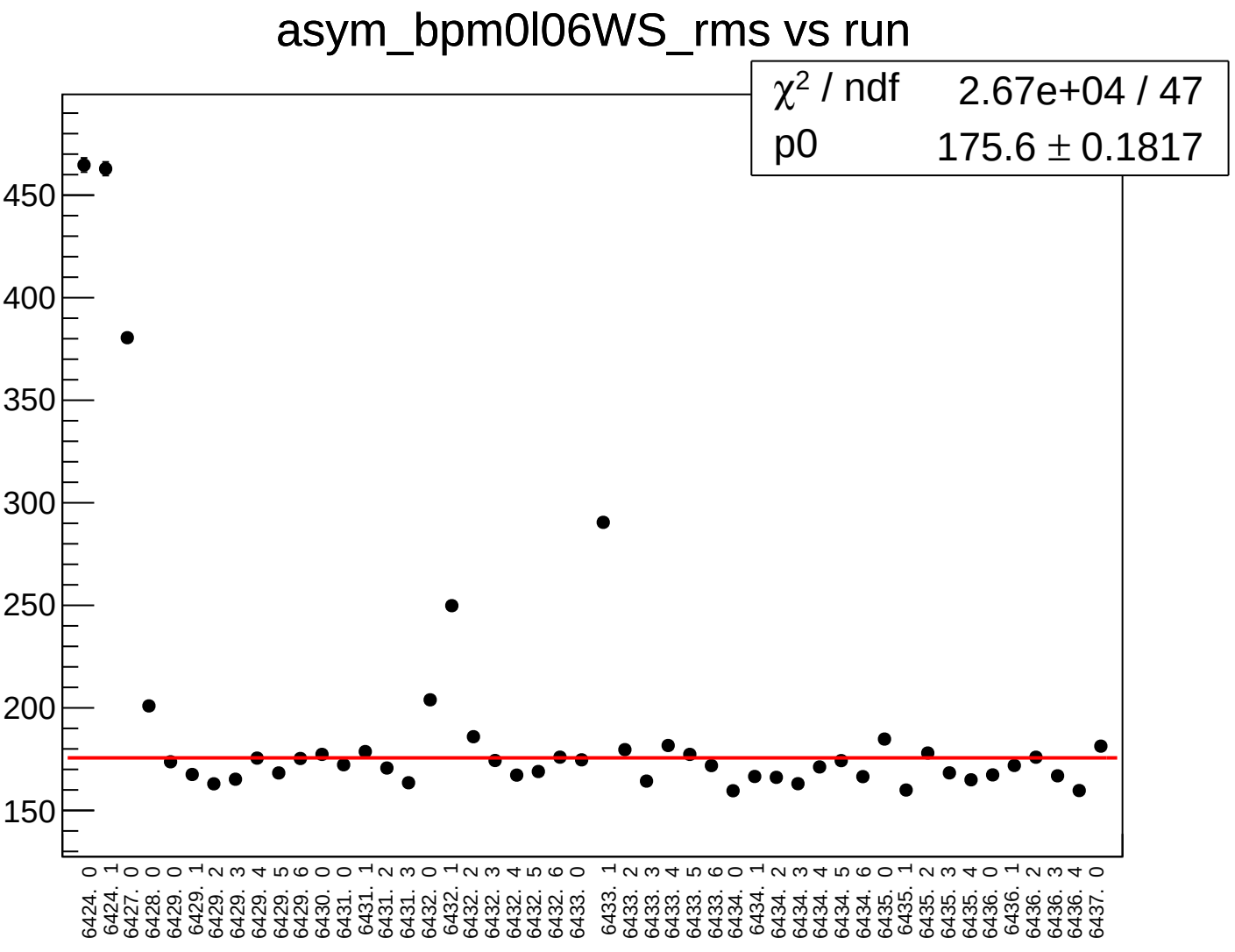

asym_bpm0l05WS_mean vs run
χ² / ndf 56.48 / 47
p0 1348 ± 276
pull
Entries 48
Mean 1260
Std Dev 1239

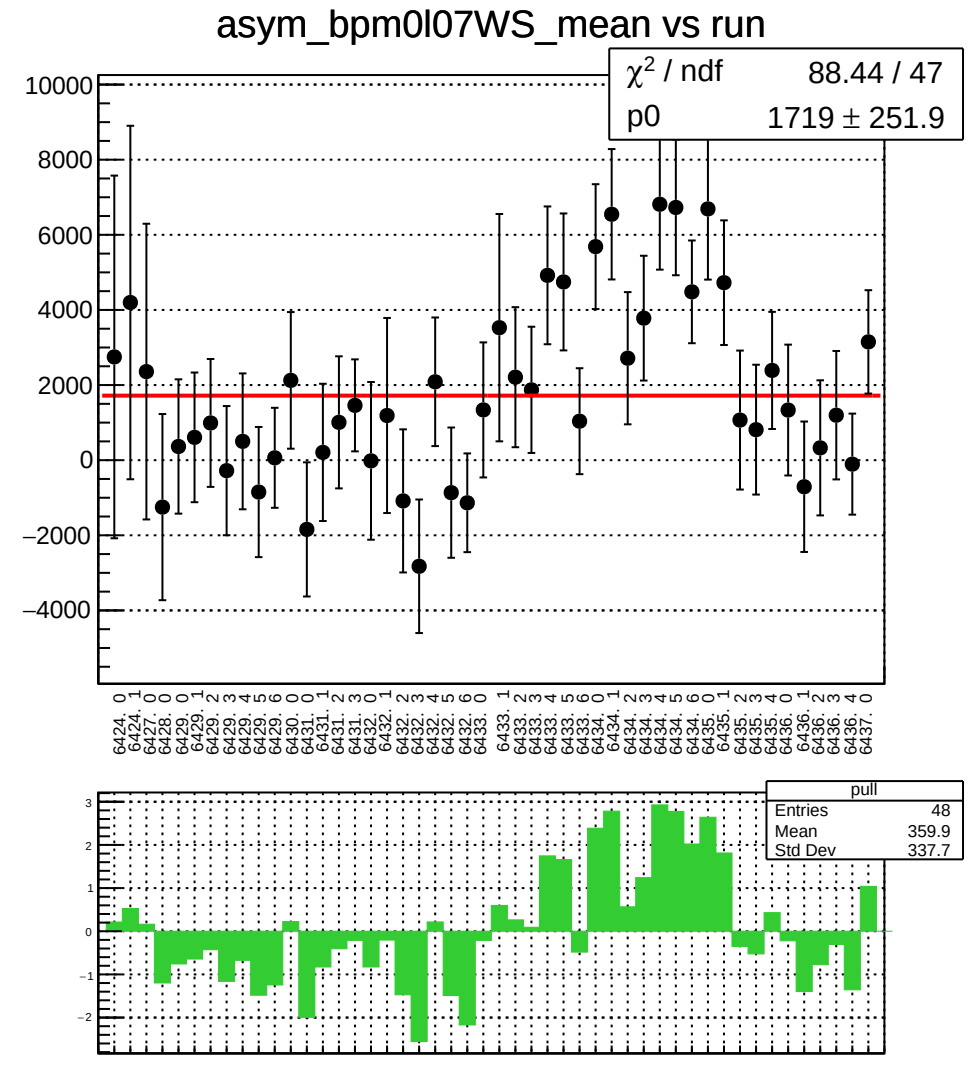

pull1D
Entries 48
Mean 0.003859
Std Dev 1.085

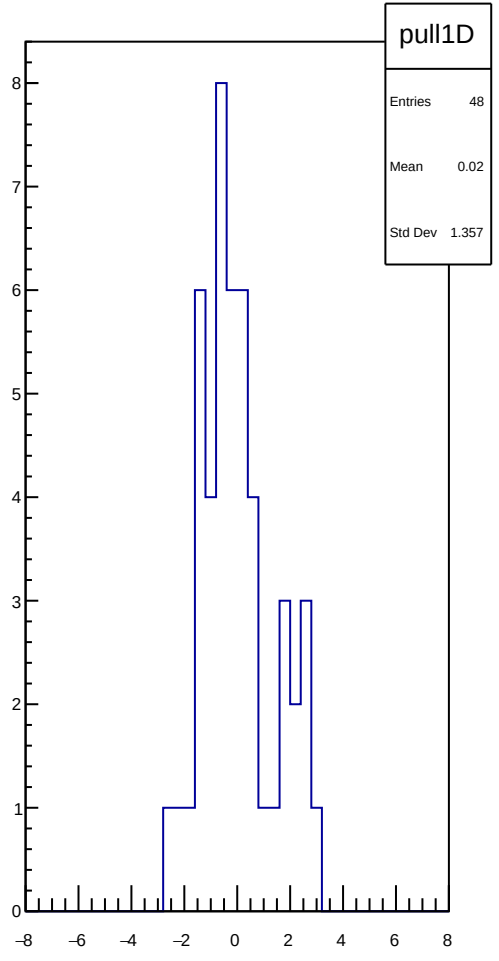

asym_bpm0l05WS_rms vs run
χ² / ndf 2.412e+04 / 47
p0 188.9 ± 0.1952
500
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

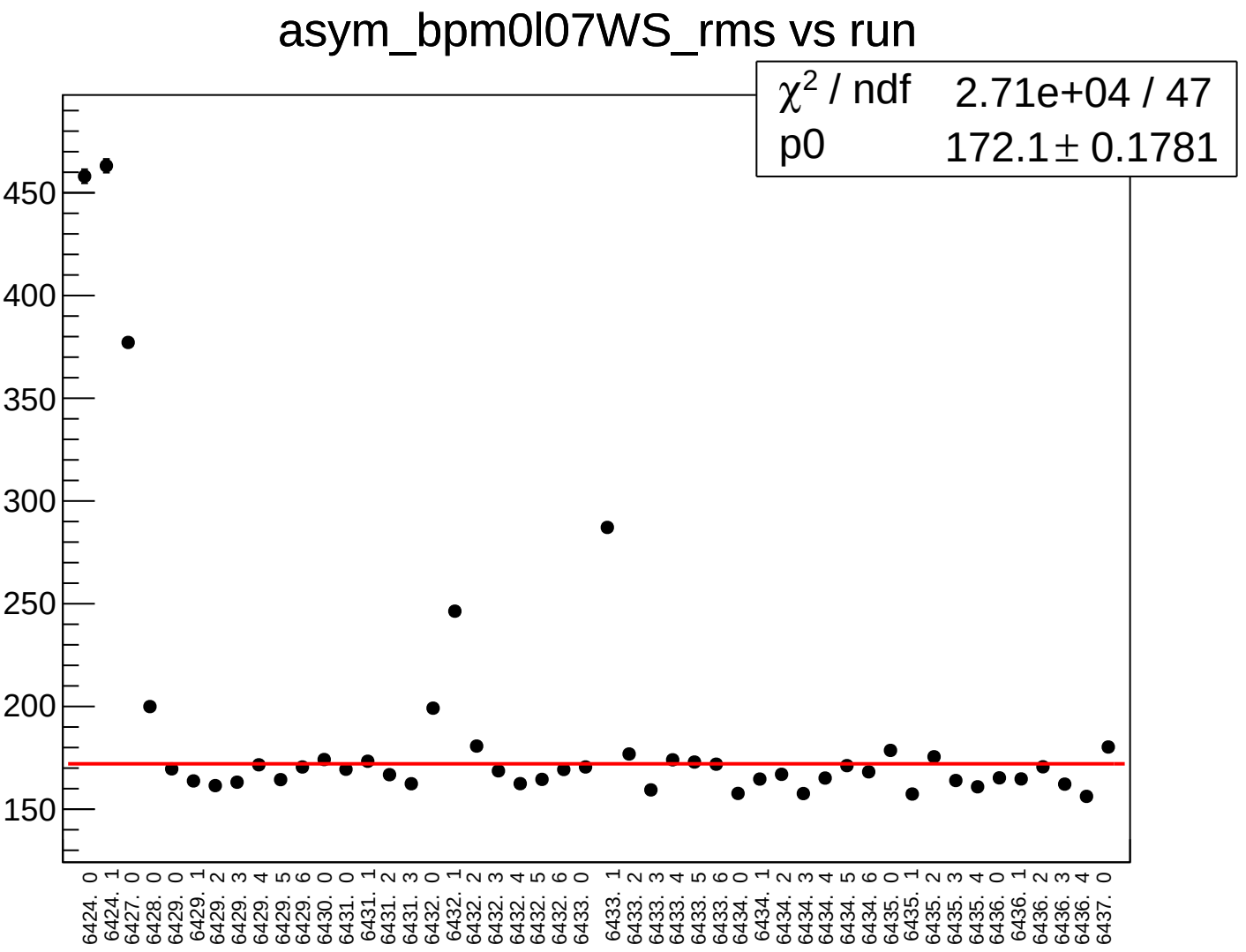

asym_bpm0l06WS_mean vs run
χ² / ndf 79.16 / 47
p0 1471 ± 257
pull
Entries 48
Mean 1696
Std Dev 1674

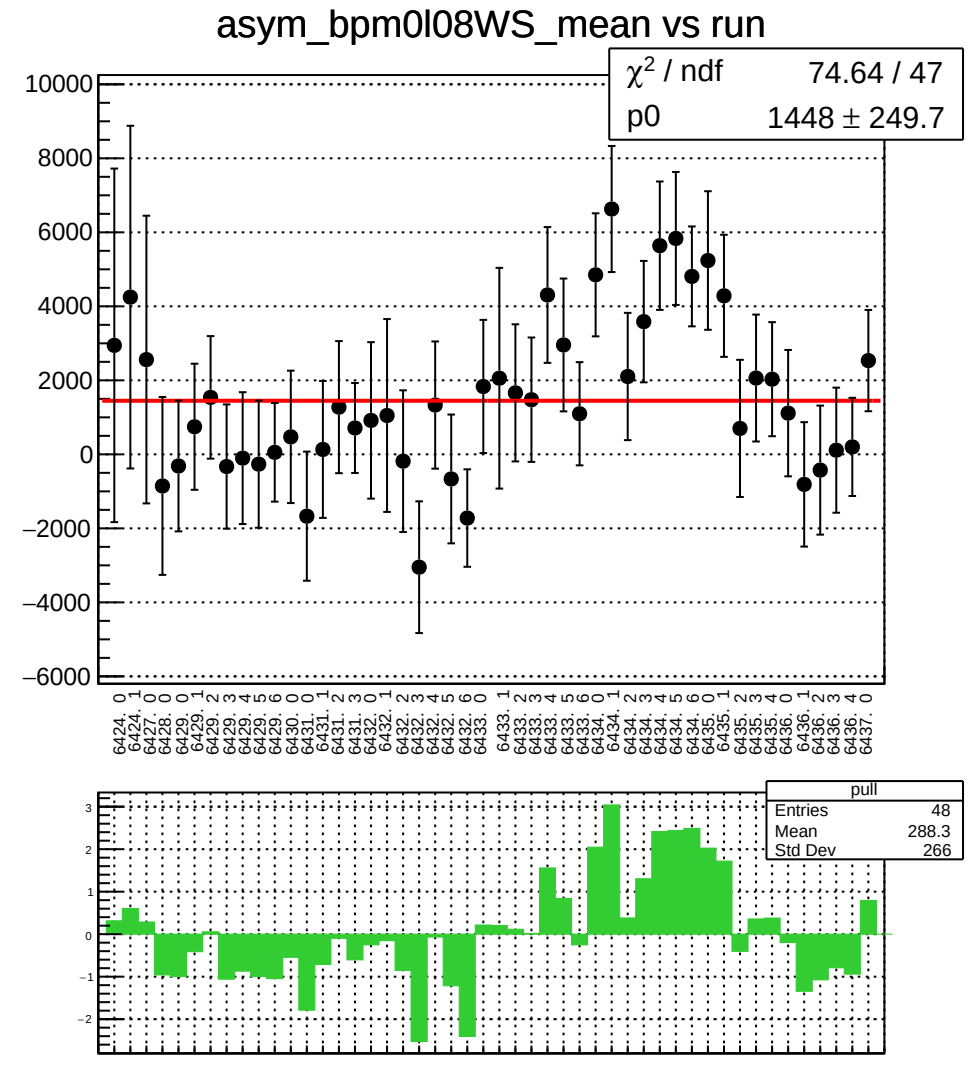

pull1D
Entries 48
Mean 0.003369
Std Dev 1.284

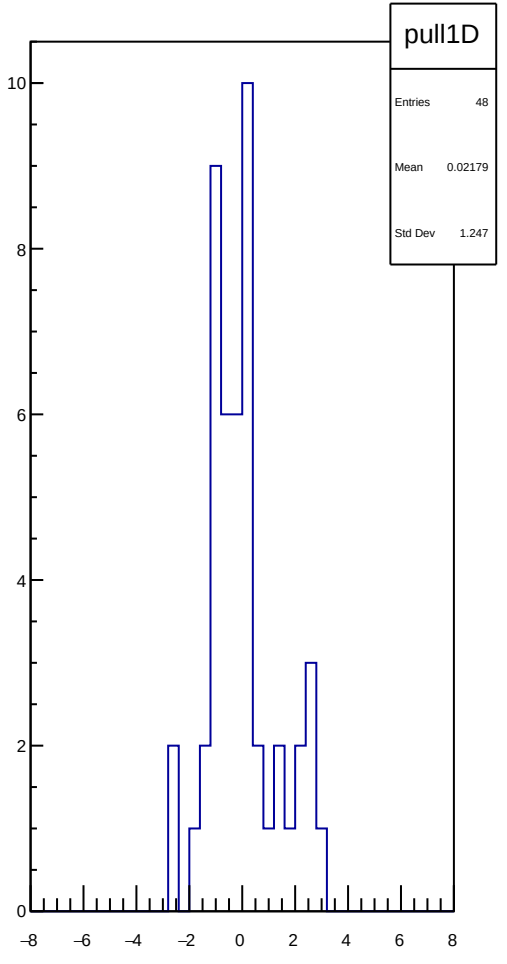

asym_bpm0l06WS_rms vs run
χ² / ndf 2.67e+04 / 47
p0 175.6 ± 0.1817
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

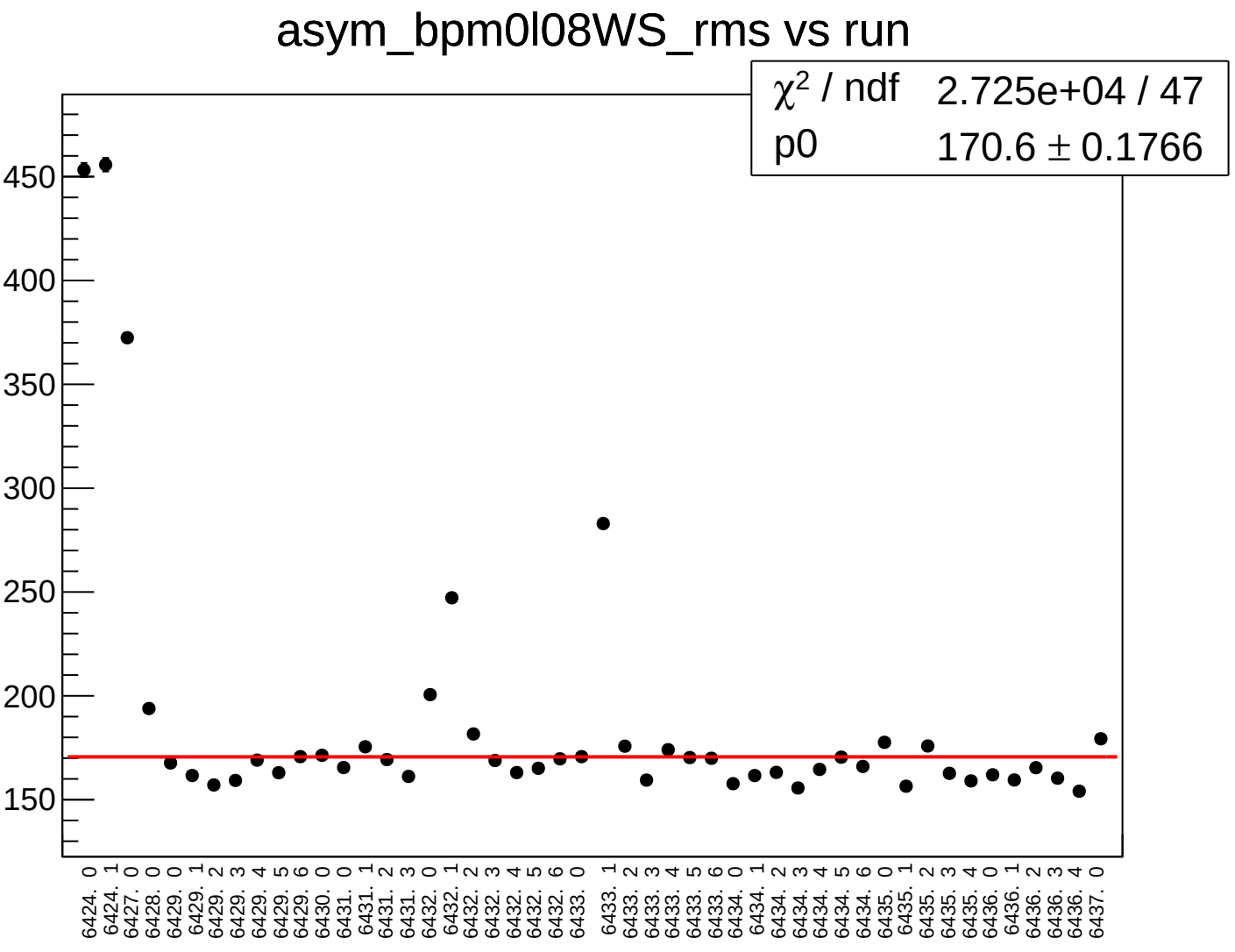

asym_bpm0l07WS_mean vs run
χ² / ndf 88.44 / 47
p0 1719 ± 251.9
pull
Entries 48
Mean 359.9
Std Dev 337.7

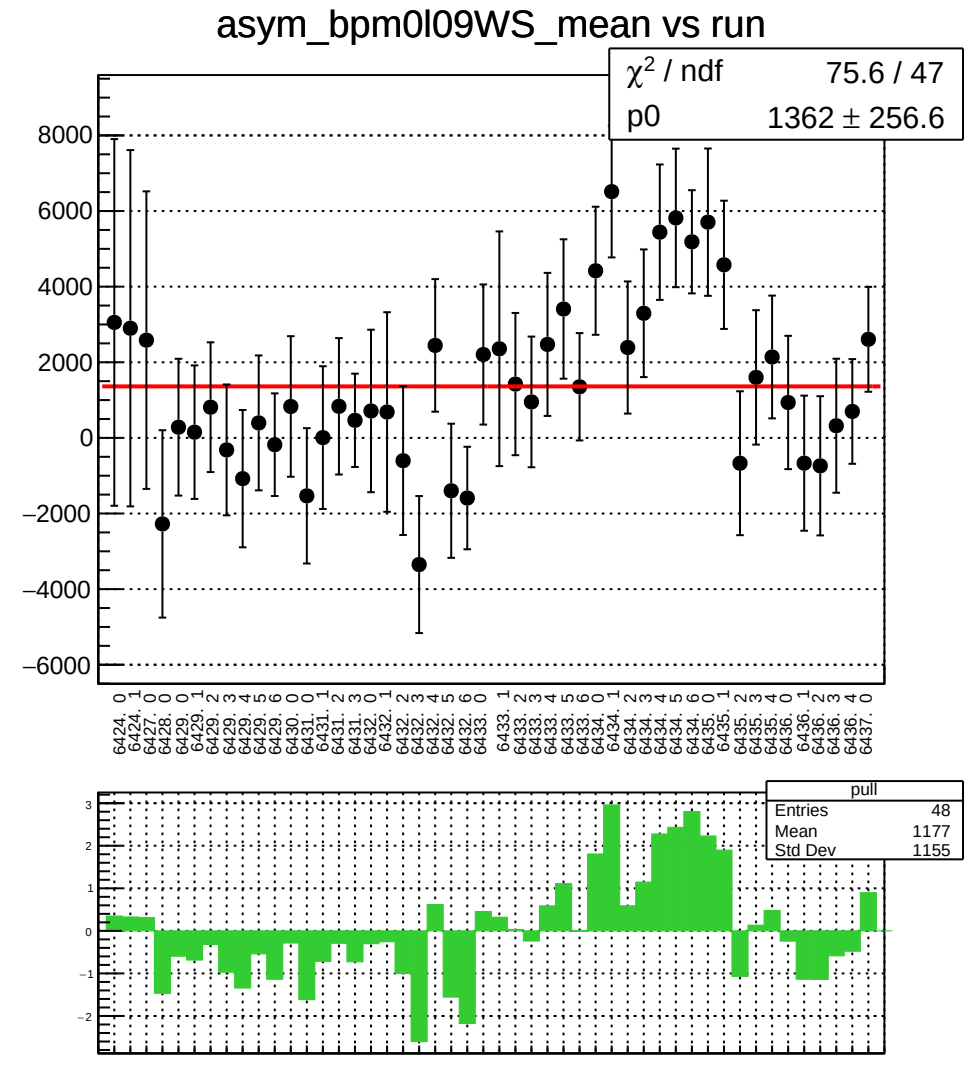

pull1D
Entries 48
Mean 0.02
Std Dev 1.357

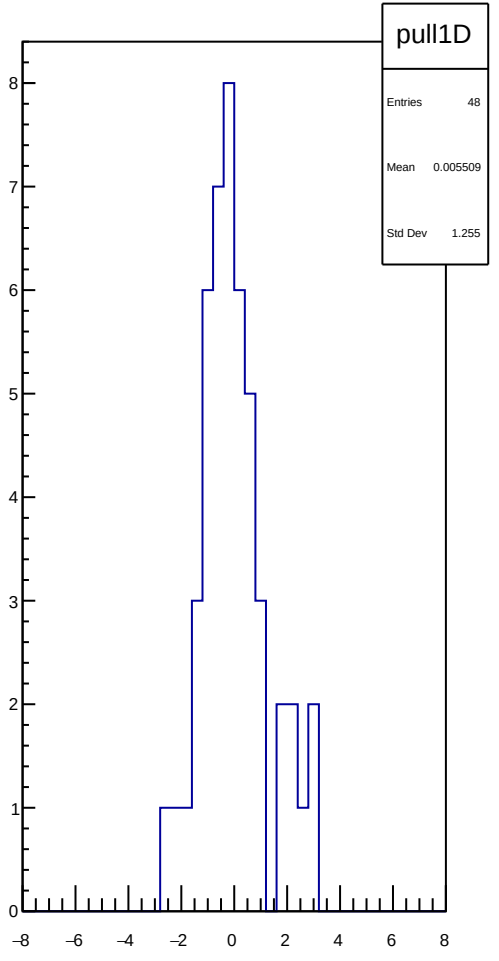

asym_bpm0l07WS_rms vs run
χ² / ndf 2.71e+04 / 47
p0 172.1 ± 0.1781
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

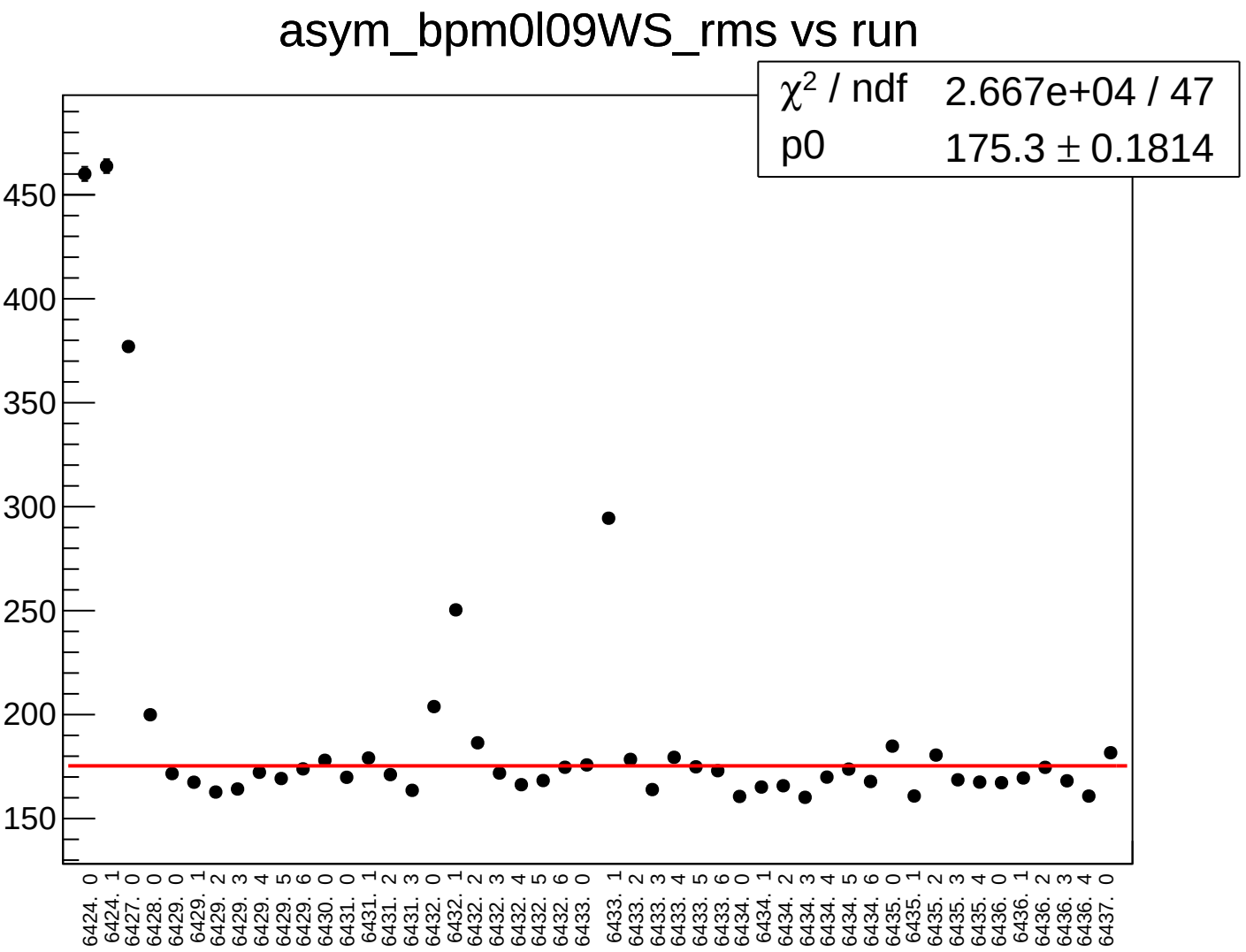

asym_bpm0l08WS_mean vs run
χ² / ndf 74.64 / 47
p0 1448 ± 249.7
pull
Entries 48
Mean 288.3
Std Dev 266

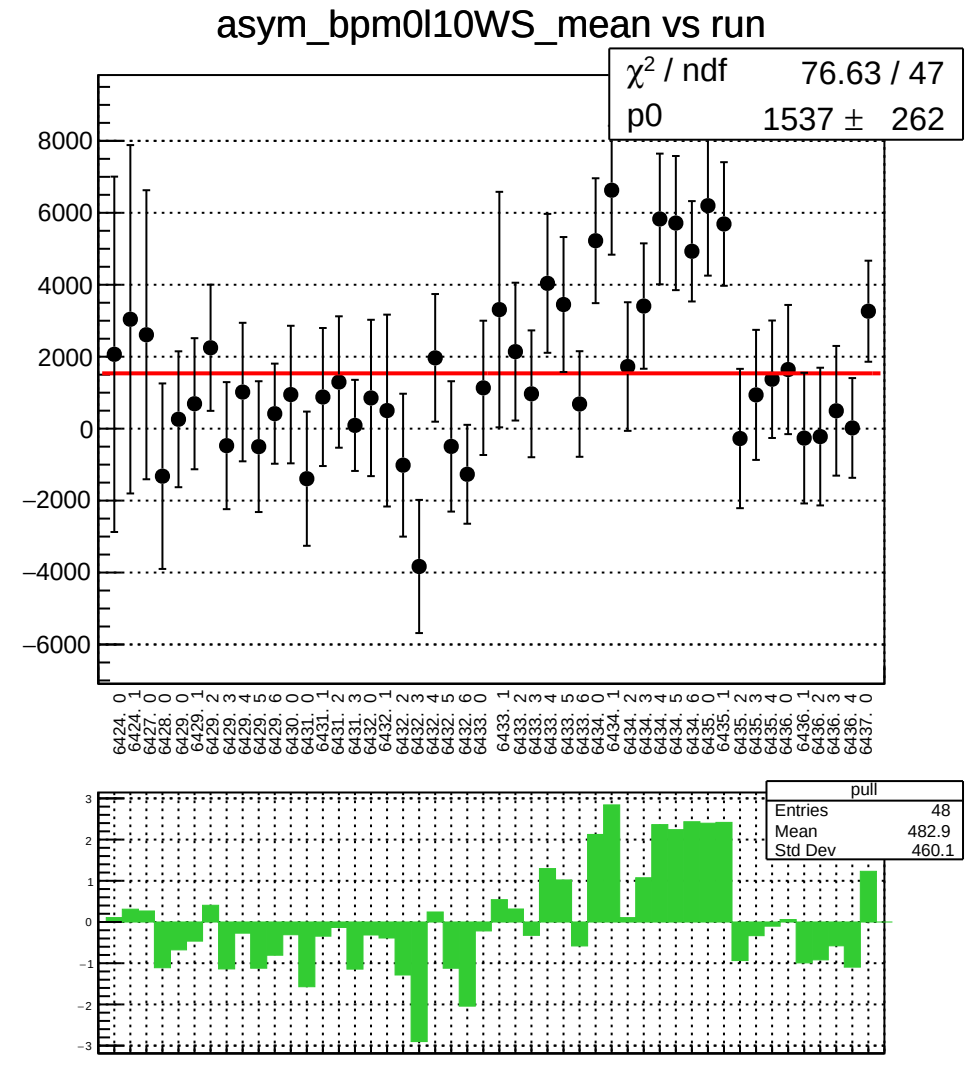

pull1D
Entries 48
Mean 0.02179
Std Dev 1.247


asym_bpm0l08WS_rms vs run
χ² / ndf 2.725e+04 / 47
p0 170.6 ± 0.1766
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0l09WS_mean vs run
χ² / ndf 75.6 / 47
p0 1362 ± 256.6
8000
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 1177
Std Dev 1155
3
2
1
0
−1
−2


pull1D
Entries 48
Mean 0.005509
Std Dev 1.255
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ² / ndf 2.667e+04 / 47
p0 175.3 ± 0.1814
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0l10WS_mean vs run
χ² / ndf 76.63 / 47
p0 1537 ± 262
8000
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
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6434. 1
6434. 2
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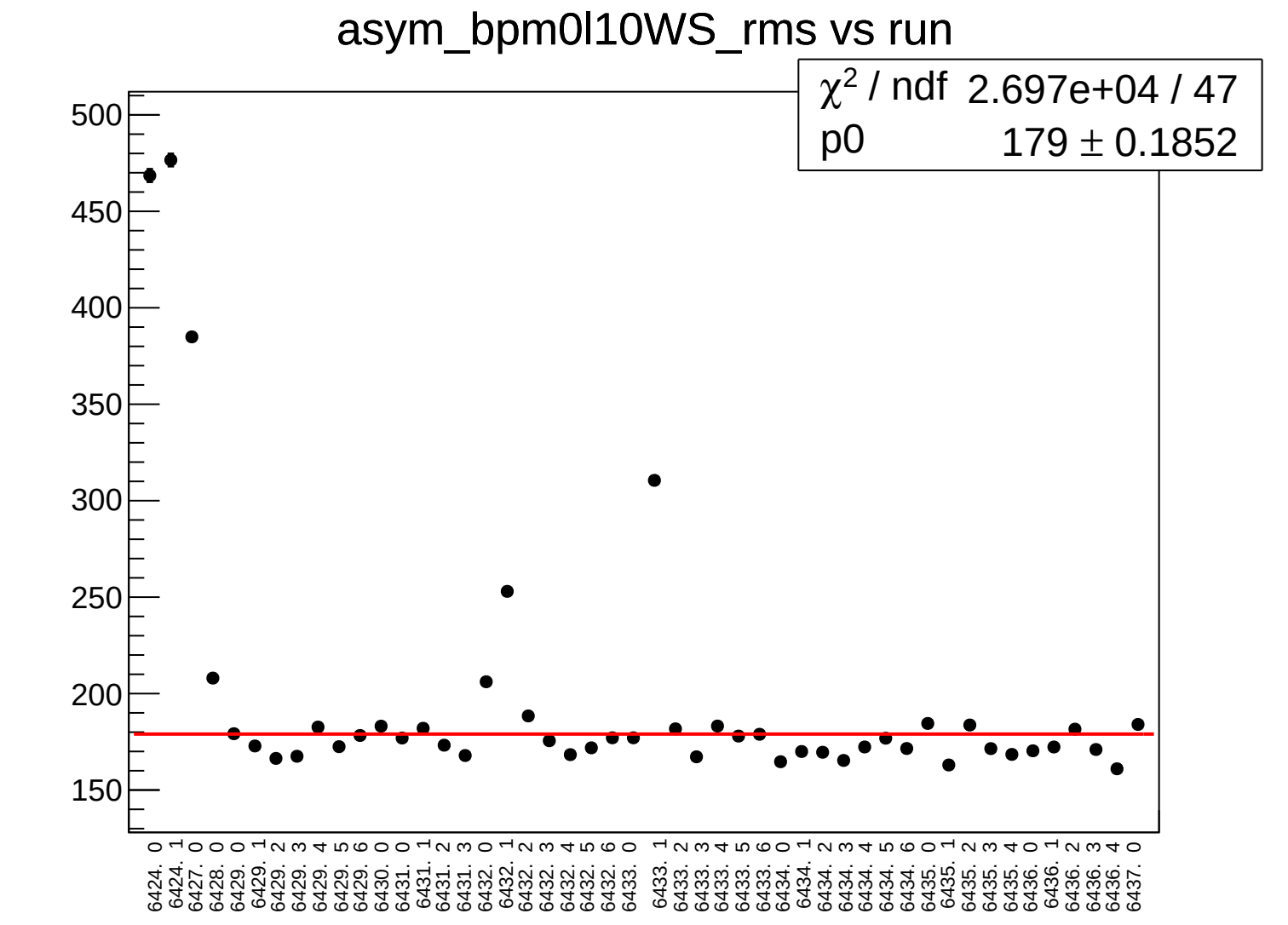
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 482.9
Std Dev 460.1
3
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean 0.01237
Std Dev 1.263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ^2 / ndf 2.697e+04 / 47
p0 179 ± 0.1852
500
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
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6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
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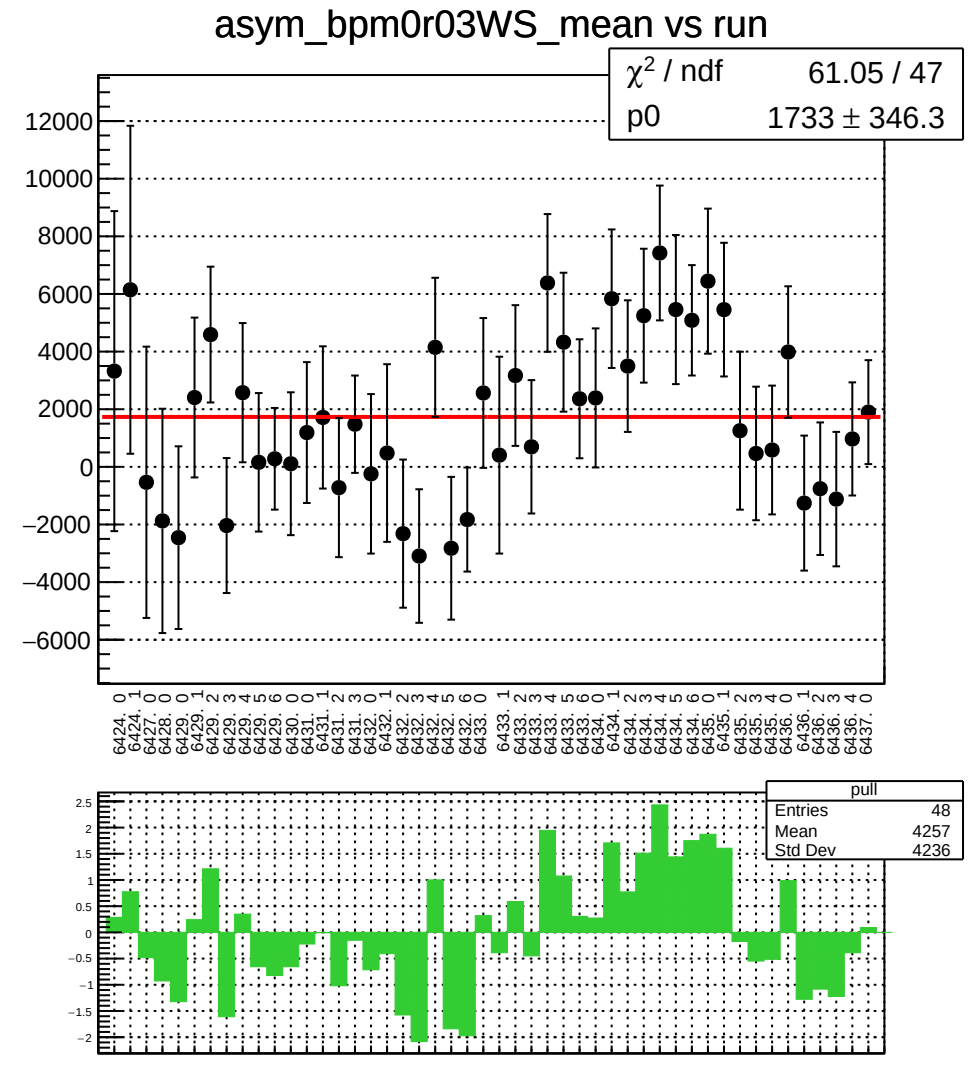
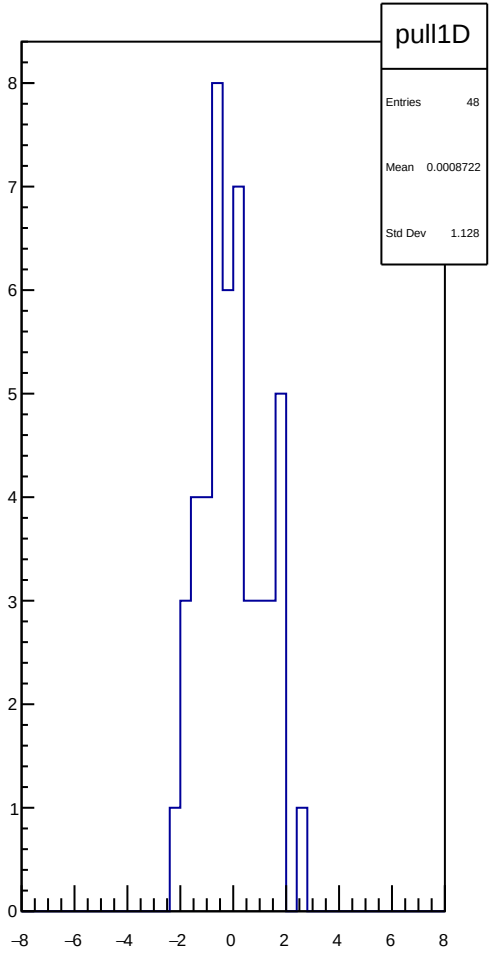
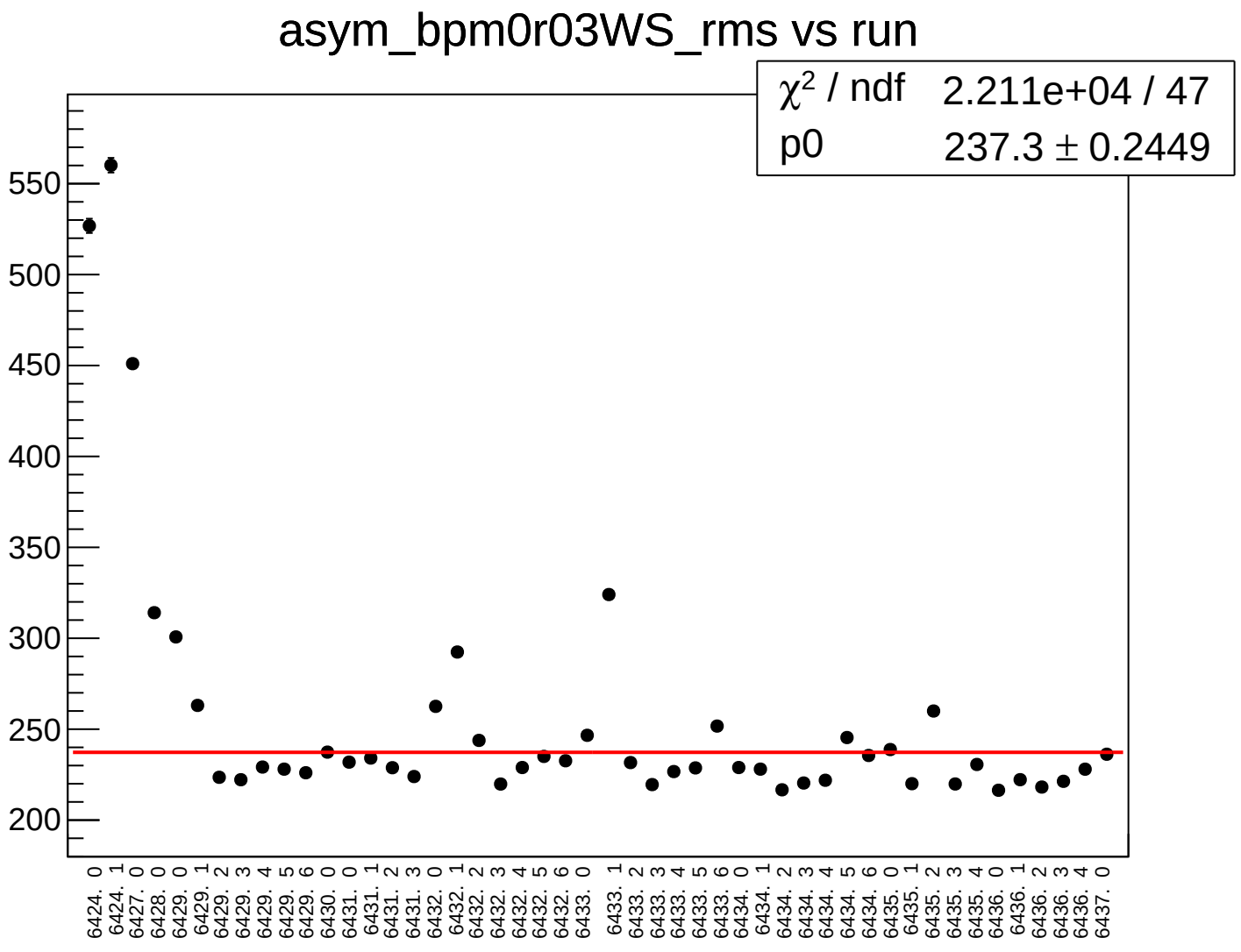
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0r03WS_mean vs run
χ² / ndf 61.05 / 47
p0 1733 ± 346.3
pull
Entries 48
Mean 4257
Std Dev 4236


pull1D
Entries 48
Mean 0.0008722
Std Dev 1.128


asym_bpm0r03WS_rms vs run
χ² / ndf 2.211e+04 / 47
p0 237.3 ± 0.2449
550
500
450
400
350
300
250
200
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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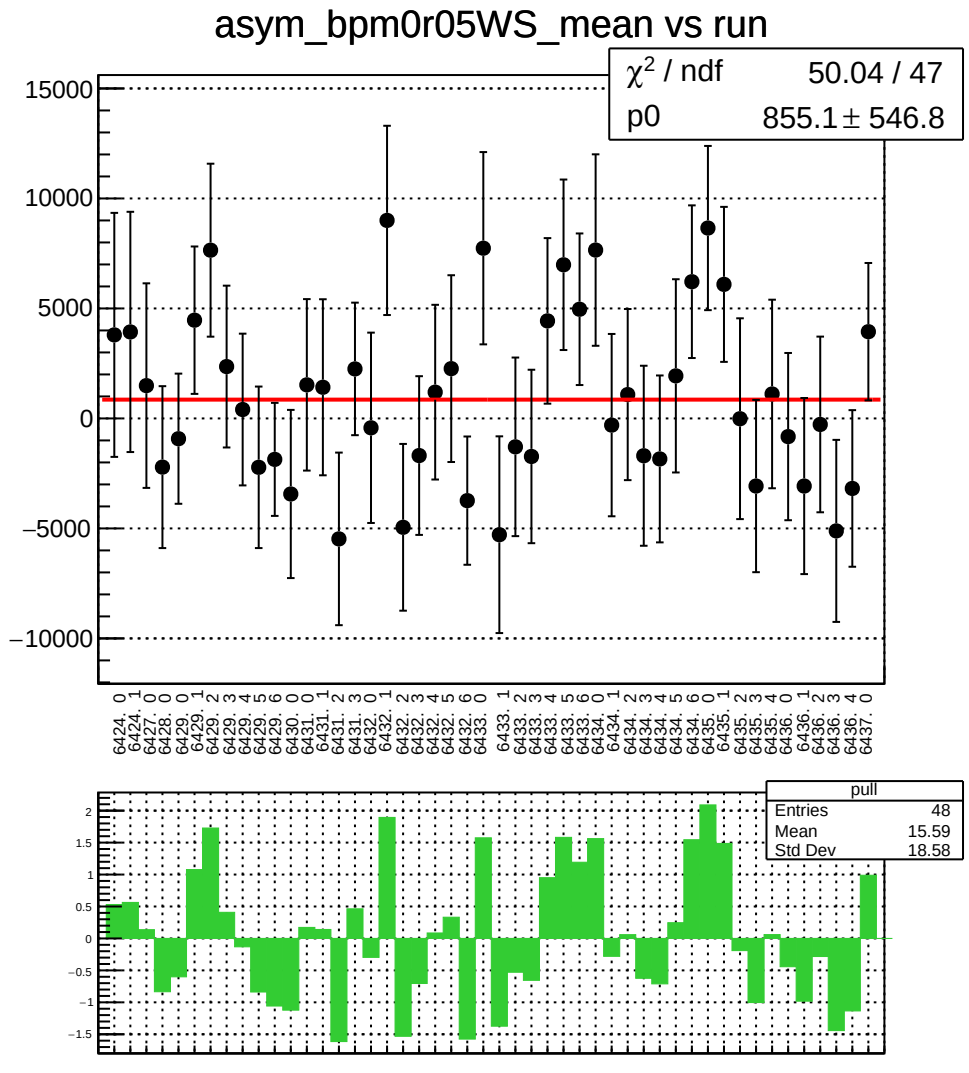
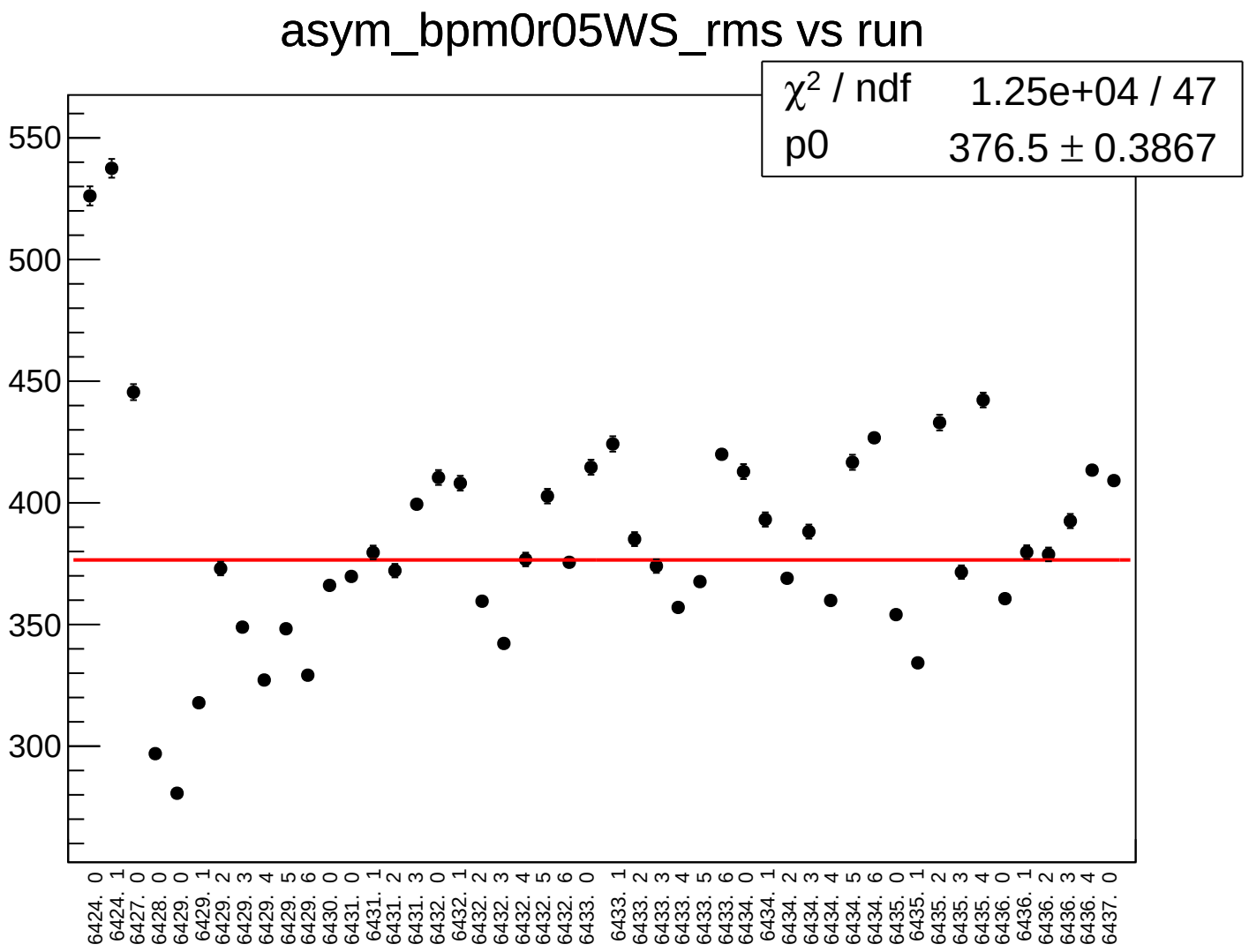
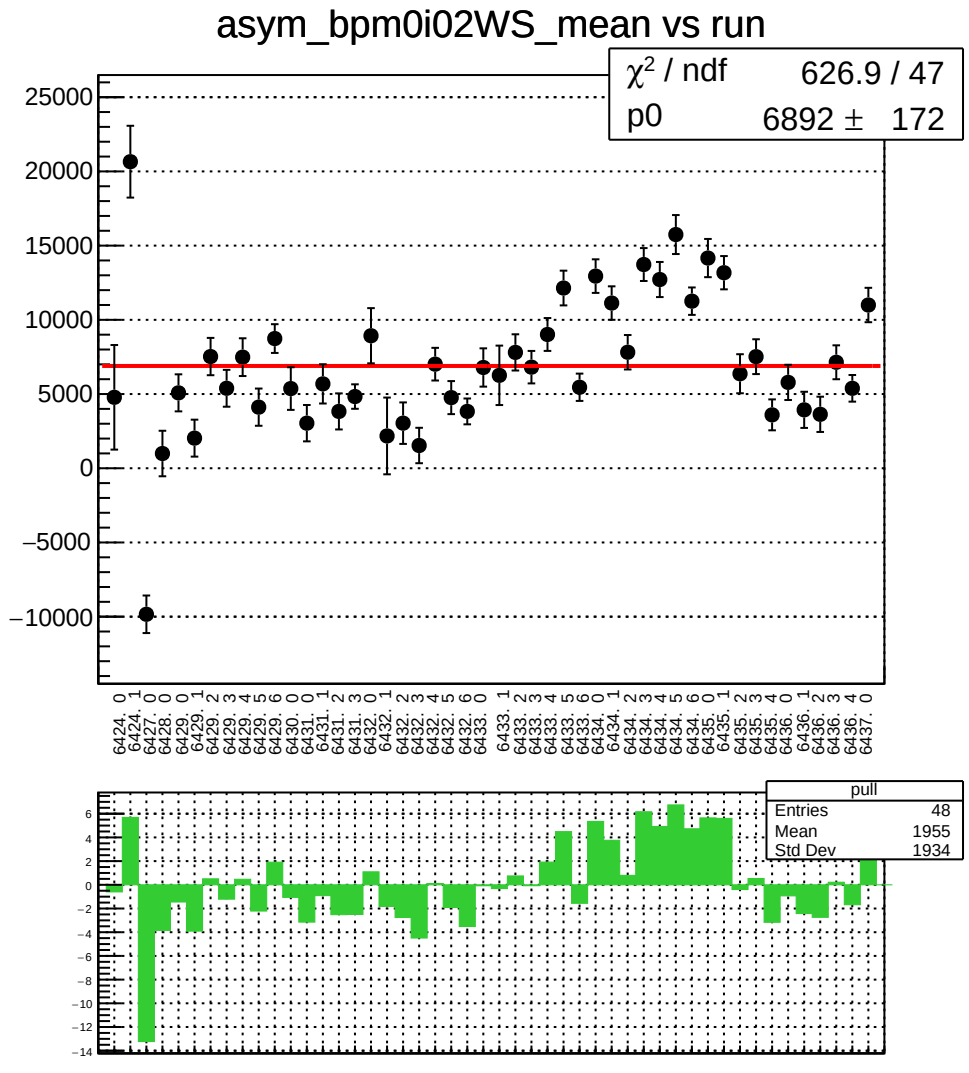
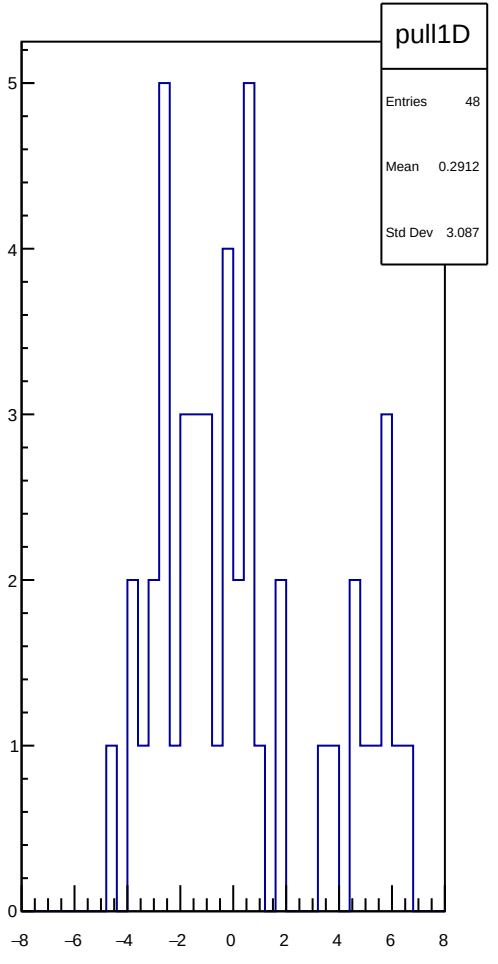
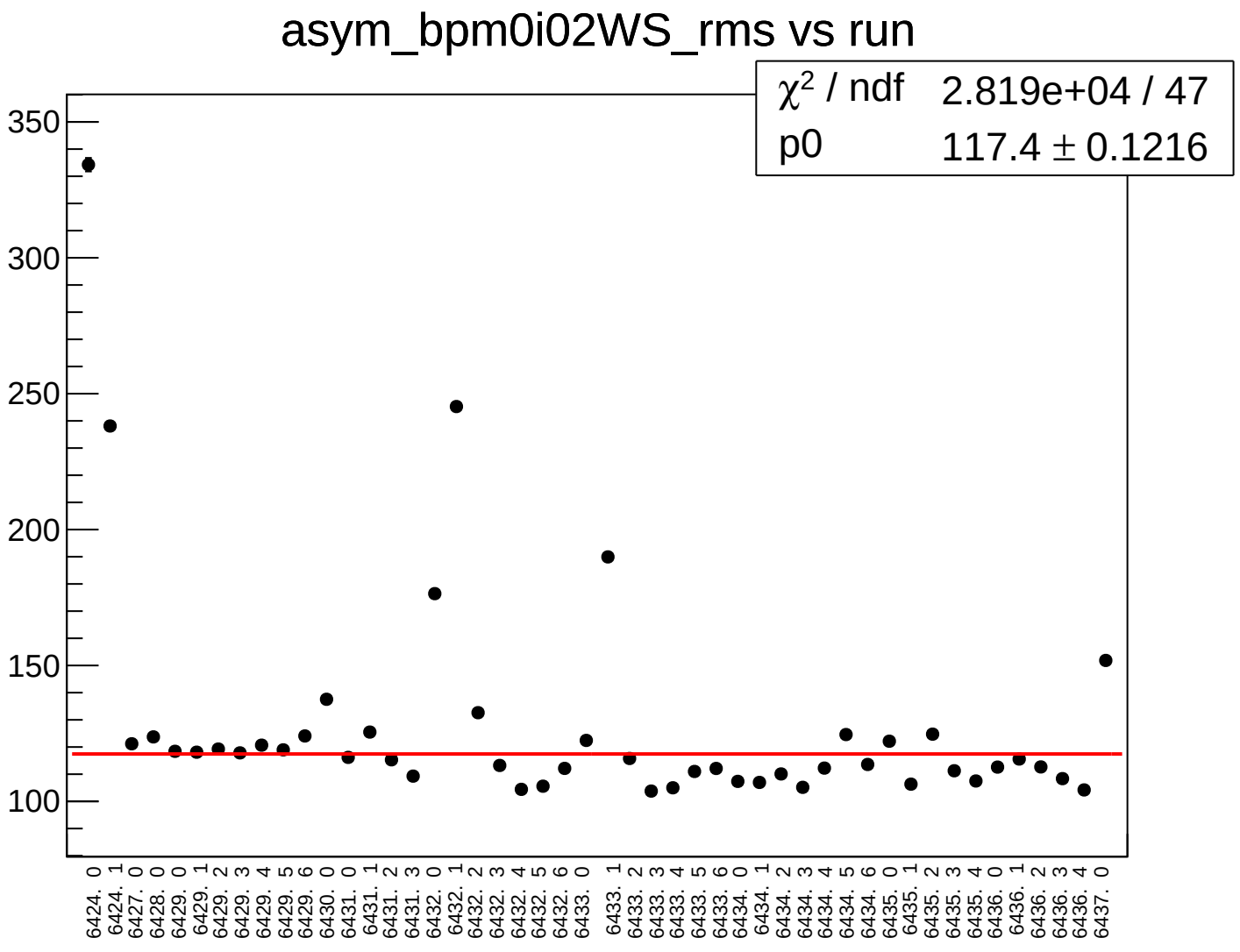
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

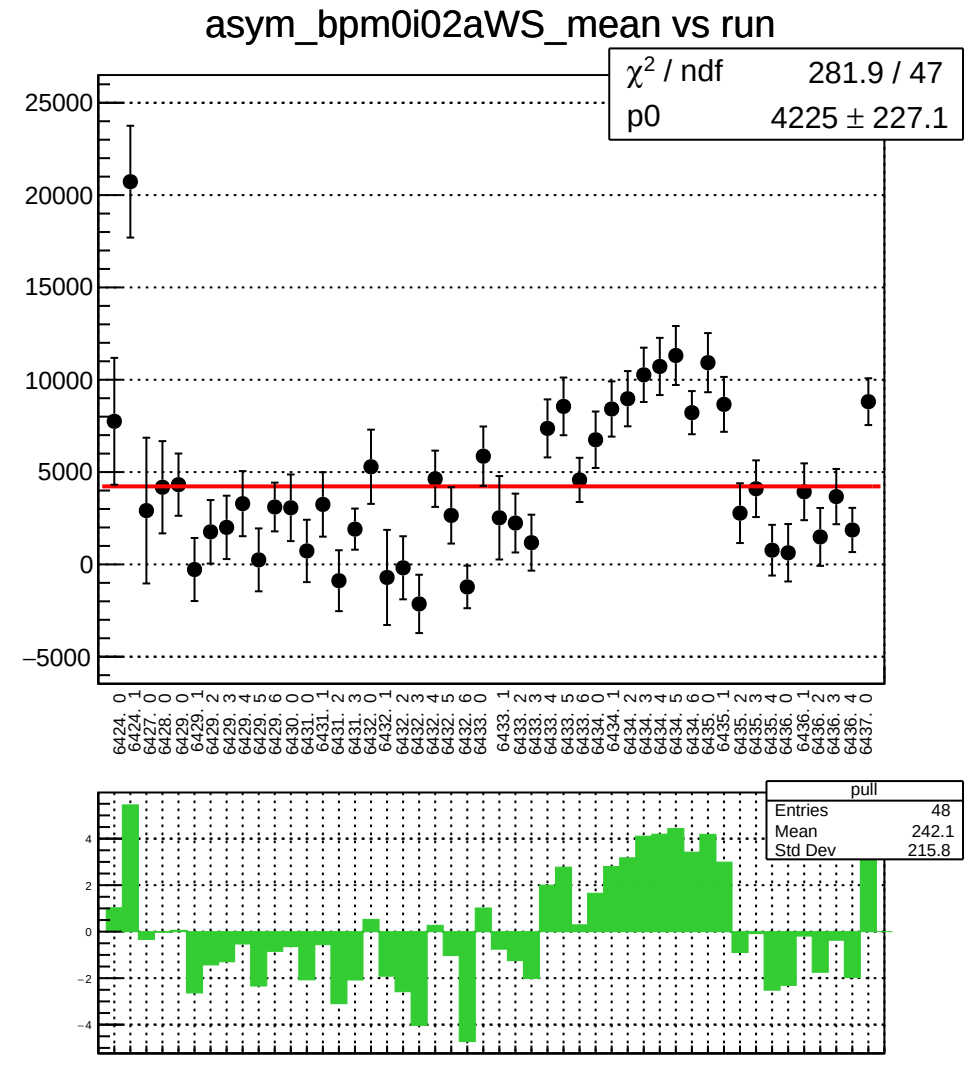

asym_bpm0r05WS_mean vs run
χ² / ndf 50.04 / 47
p0 855.1 ± 546.8
15000
10000
5000
0
−5000
−10000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 15.59
Std Dev 18.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 48
Mean 0.01912
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

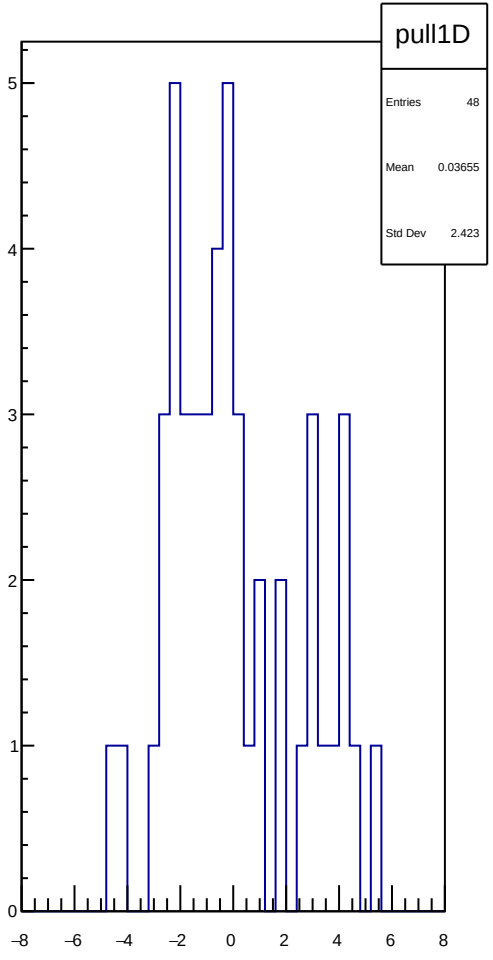

asym_bpm0r05WS_rms vs run
χ² / ndf 1.25e+04 / 47
p0 376.5 ± 0.3867
550
500
450
400
350
300
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

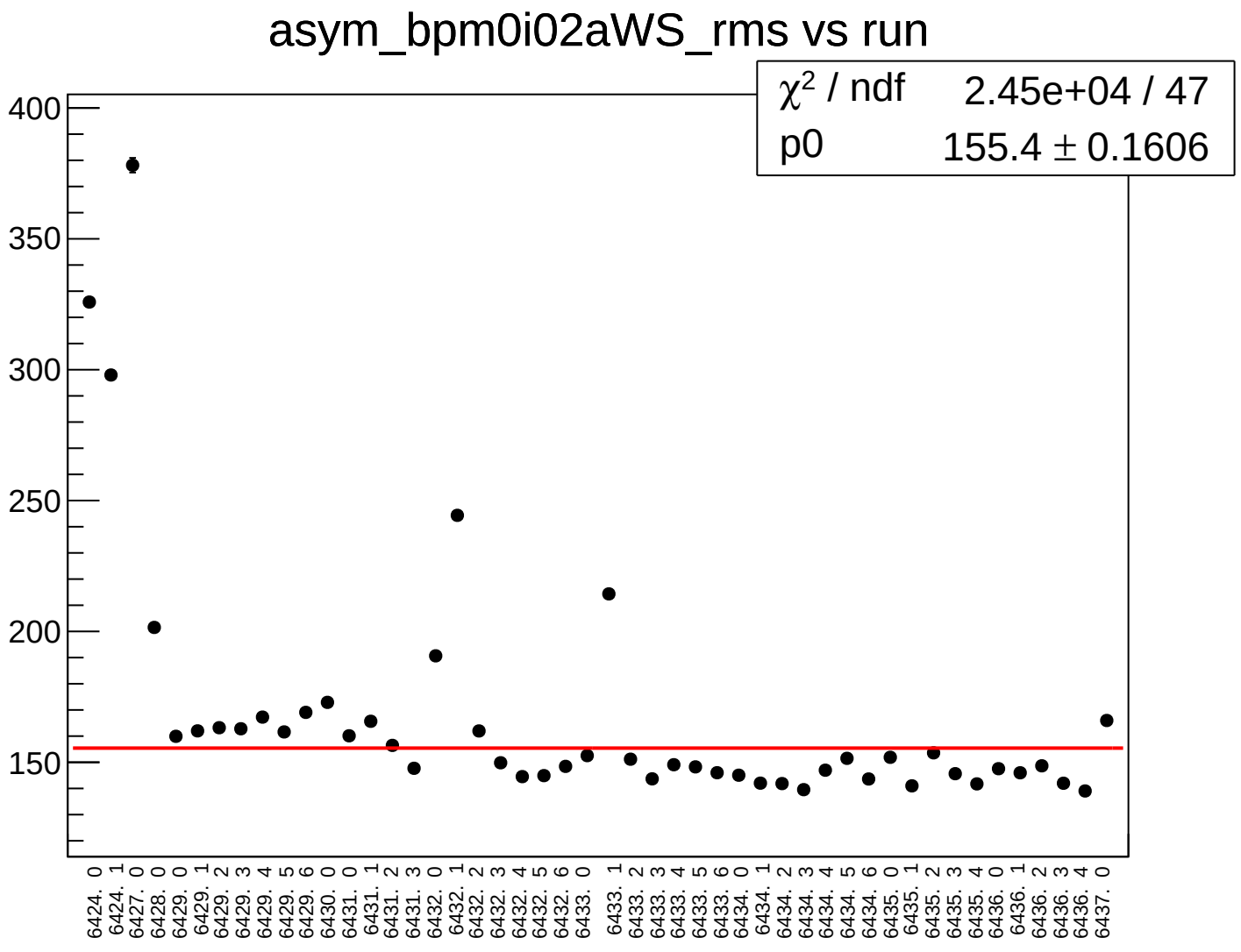

asym_bpm0i02WS_mean vs run
χ² / ndf 626.9 / 47
p0 6892 ± 172
pull
Entries 48
Mean 1955
Std Dev 1934

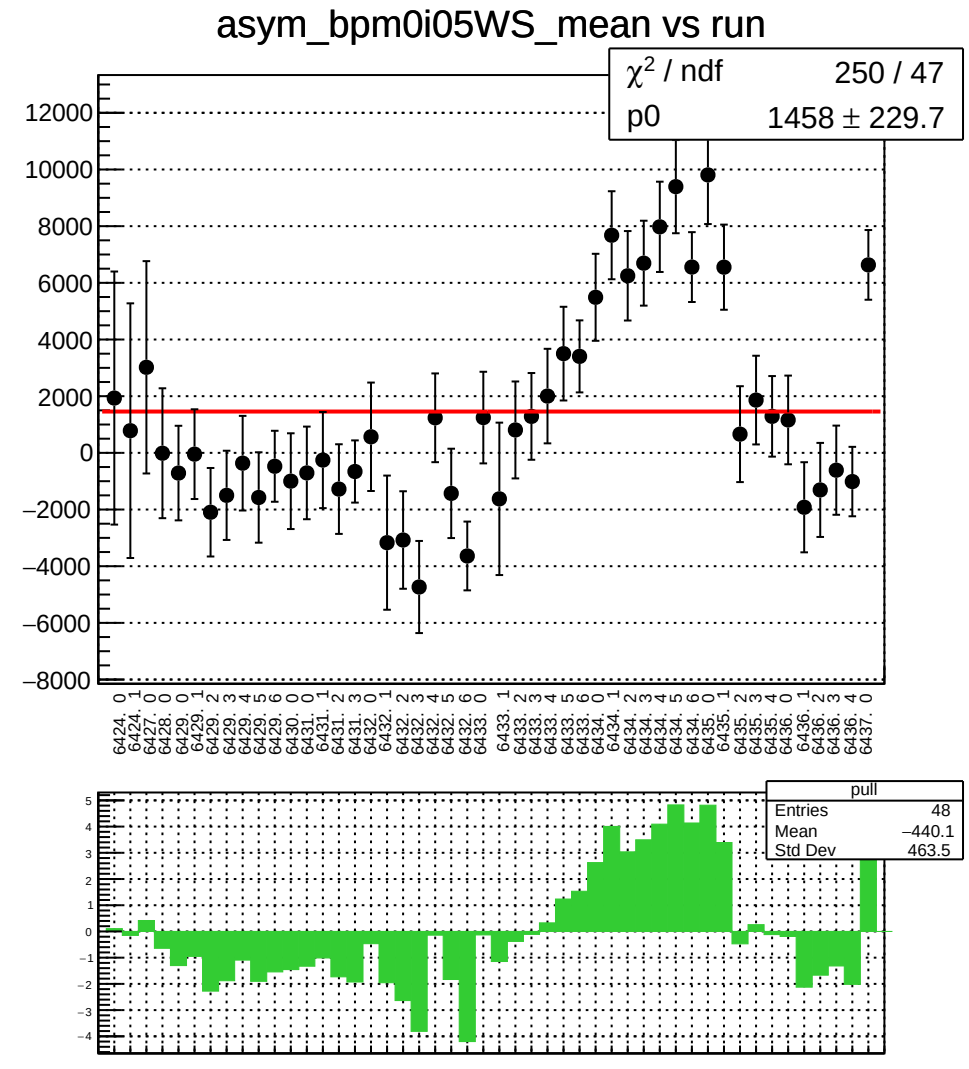

pull1D
Entries 48
Mean 0.2912
Std Dev 3.087

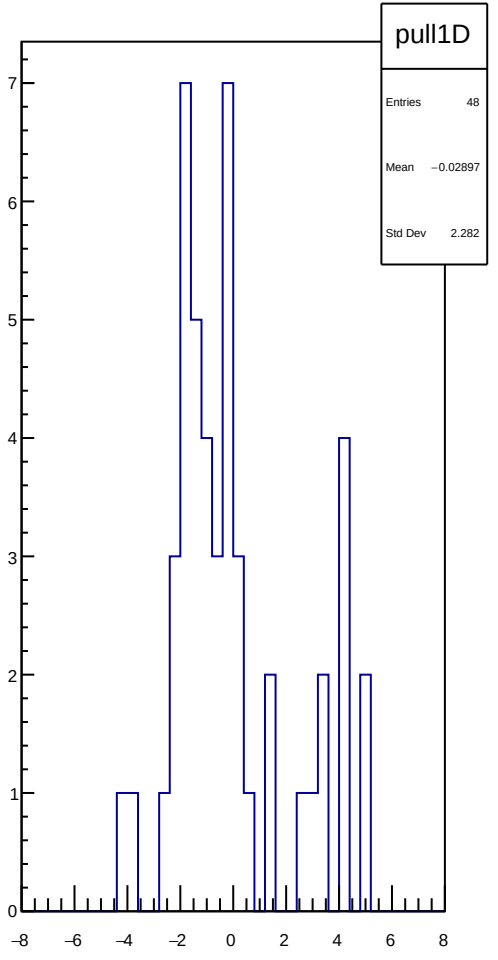

asym_bpm0i02WS_rms vs run
χ² / ndf 2.819e+04 / 47
p0 117.4 ± 0.1216
350
300
250
200
150
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

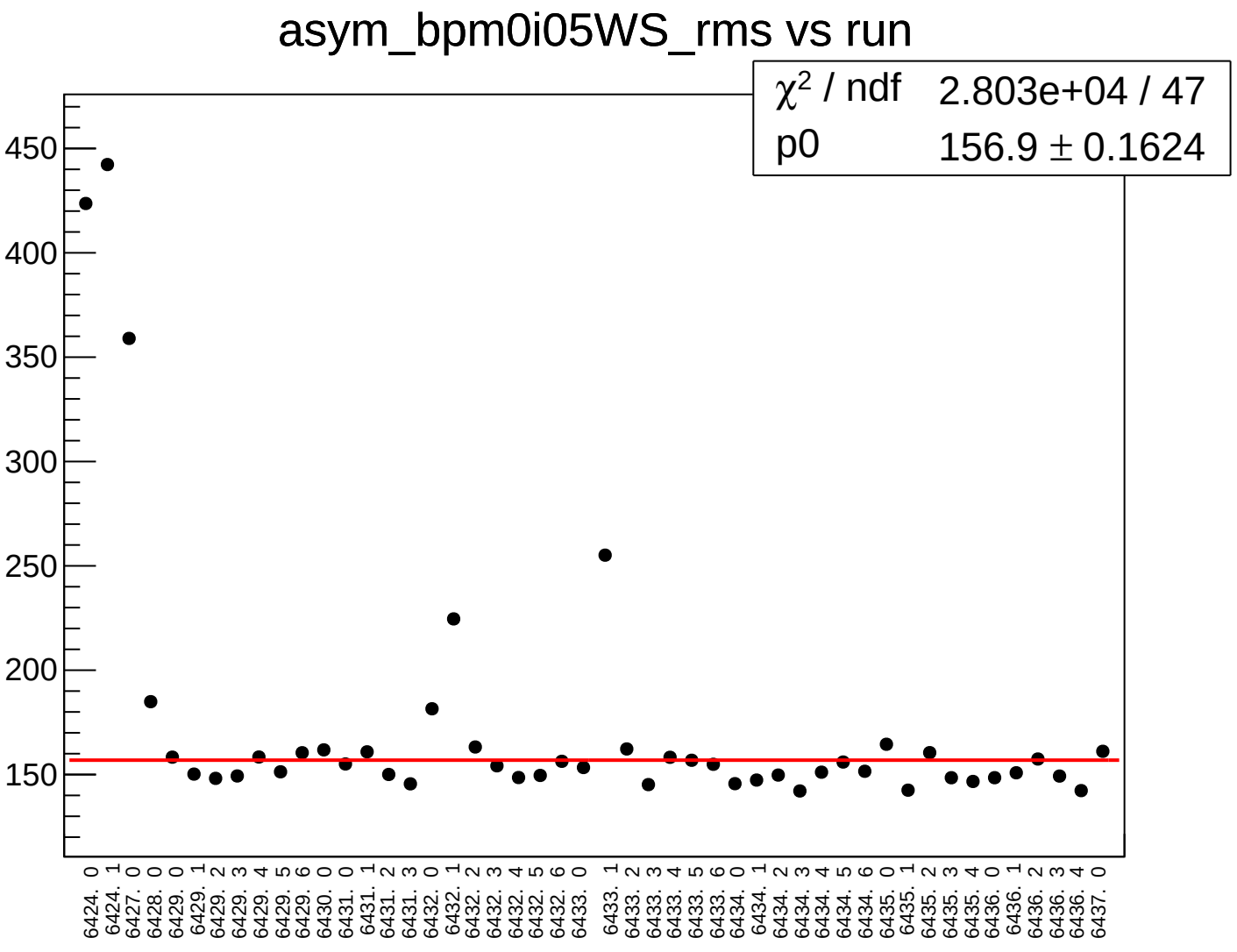

asym_bpm0i02aWS_mean vs run
χ² / ndf 281.9 / 47
p0 4225 ± 227.1
25000
20000
15000
10000
5000
0
−5000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 242.1
Std Dev 215.8
4
2
0
−2
−4

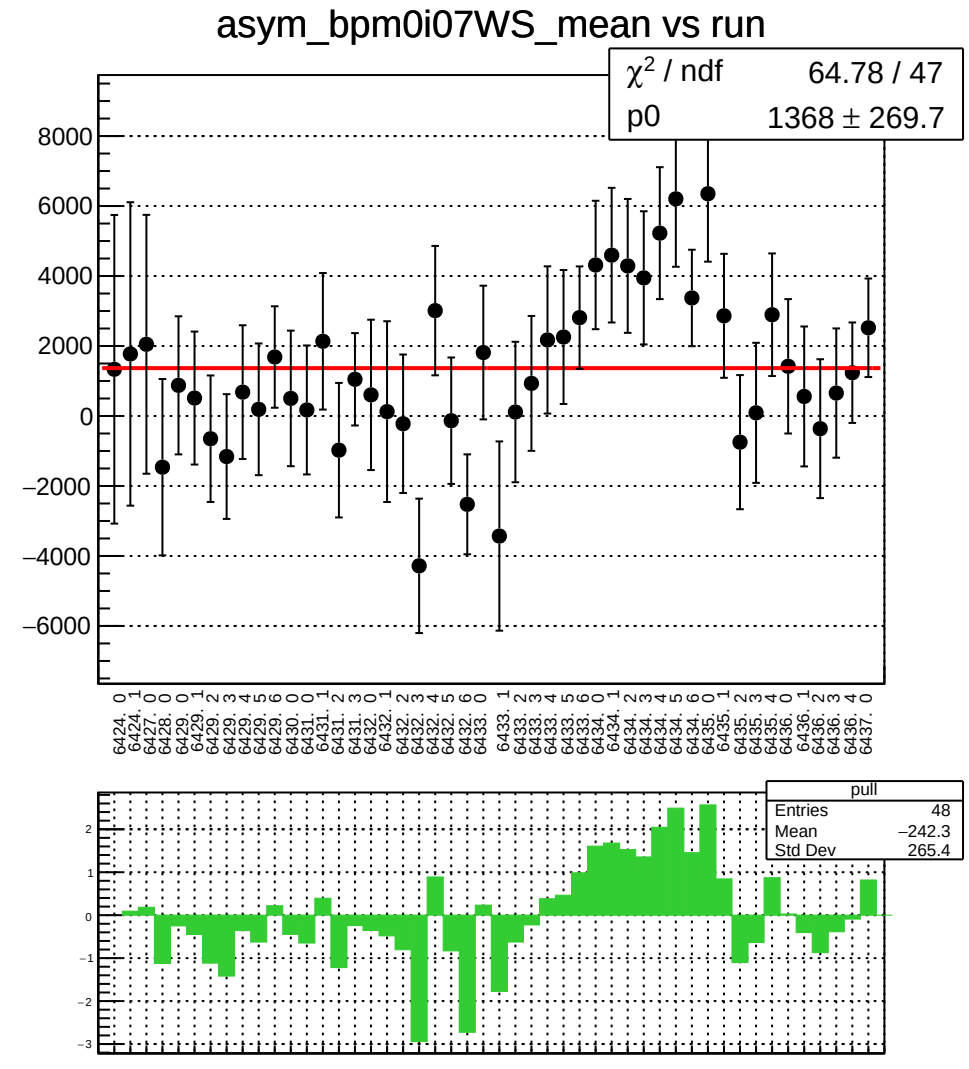

pull1D
Entries 48
Mean 0.03655
Std Dev 2.423
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

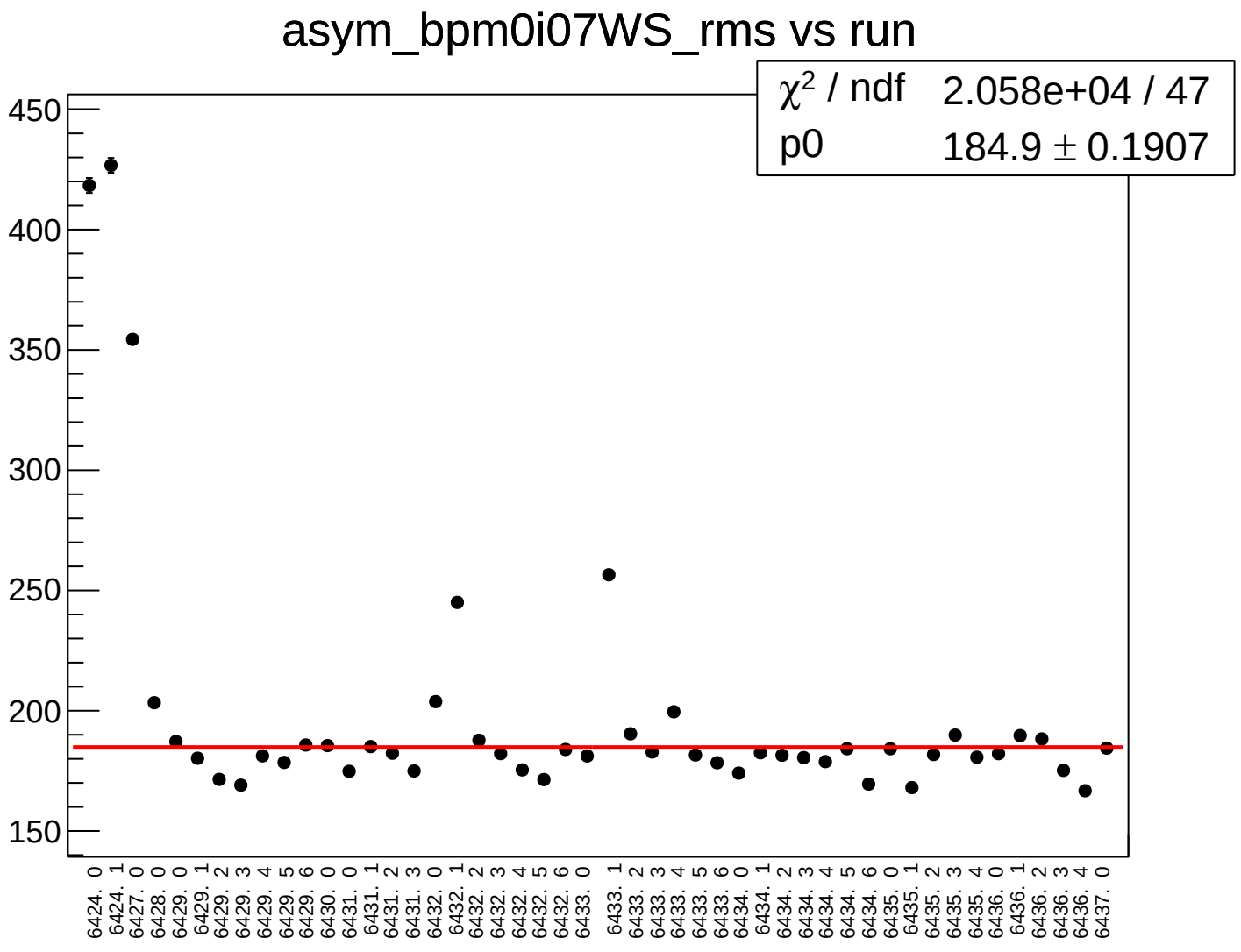

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.45e+04 / 47
p0 155.4 ± 0.1606
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

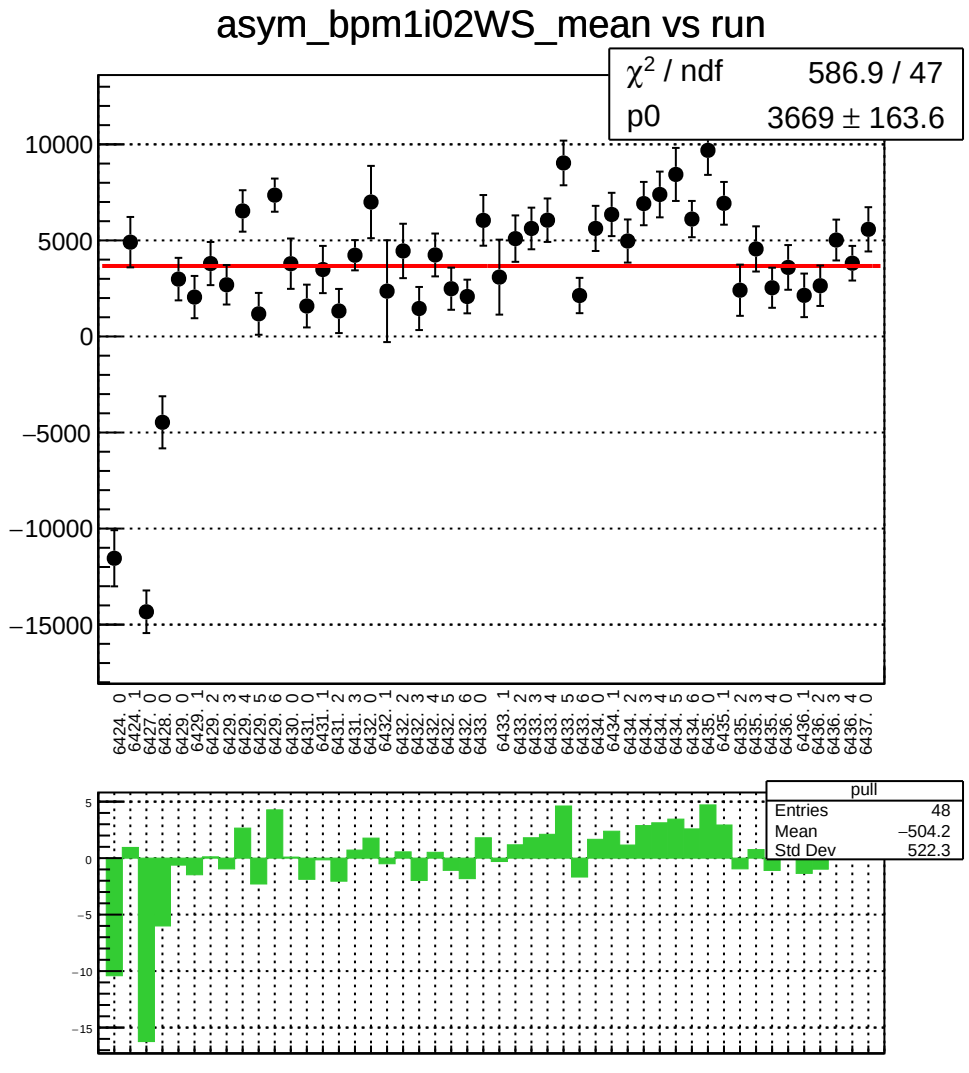

asym_bpm0i05WS_mean vs run
χ² / ndf 250 / 47
p0 1458 ± 229.7
pull
Entries 48
Mean −440.1
Std Dev 463.5

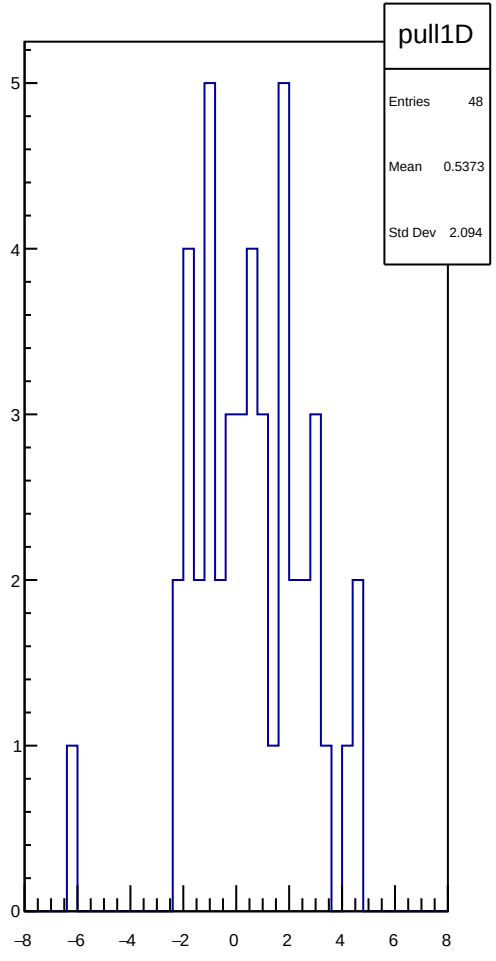

pull1D
Entries 48
Mean −0.02897
Std Dev 2.282

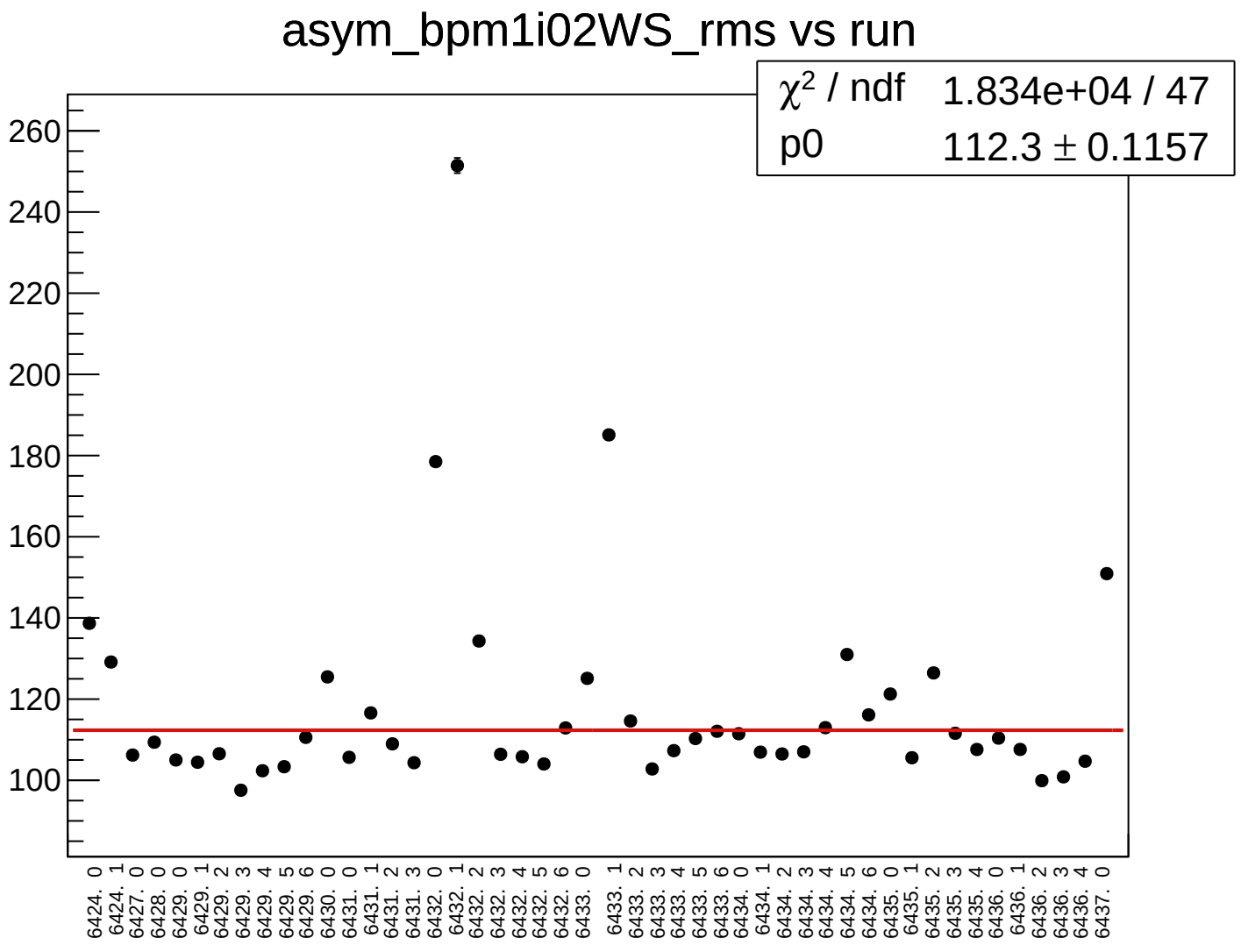

asym_bpm0i05WS_rms vs run
χ² / ndf 2.803e+04 / 47
p0 156.9 ± 0.1624
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm0i07WS_mean vs run
χ² / ndf 64.78 / 47
p0 1368 ± 269.7
8000
6000
4000
2000
0
−2000
−4000
−6000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −242.3
Std Dev 265.4
2
1
0
−1
−2
−3
pull1D
Entries 48
Mean −0.02157
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 2.058e+04 / 47
p0 184.9 ± 0.1907
450
400
350
300
250
200
150
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm1i02WS_mean vs run
χ² / ndf 586.9 / 47
p0 3669 ± 163.6
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −504.2
Std Dev 522.3
5
0
−5
−10
−15


pull1D
Entries 48
Mean 0.5373
Std Dev 2.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 1.834e+04 / 47
p0 112.3 ± 0.1157
260
240
220
200
180
160
140
120
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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6433. 6
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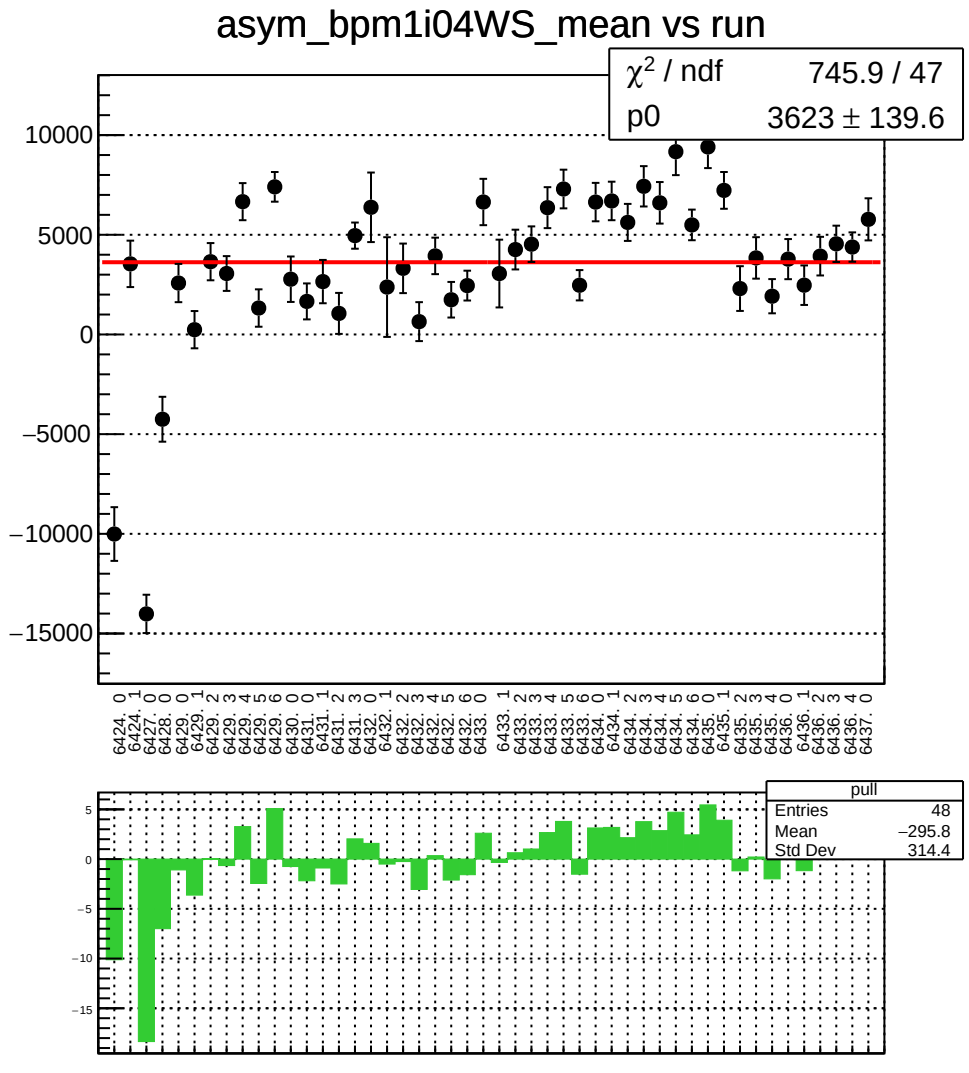
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


asym_bpm1i04WS_mean vs run
χ² / ndf 745.9 / 47
p0 3623 ± 139.6
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
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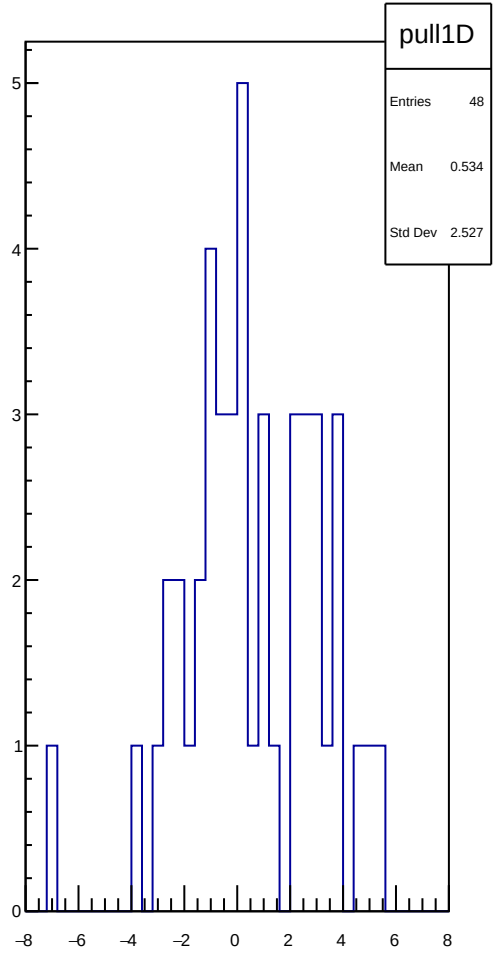
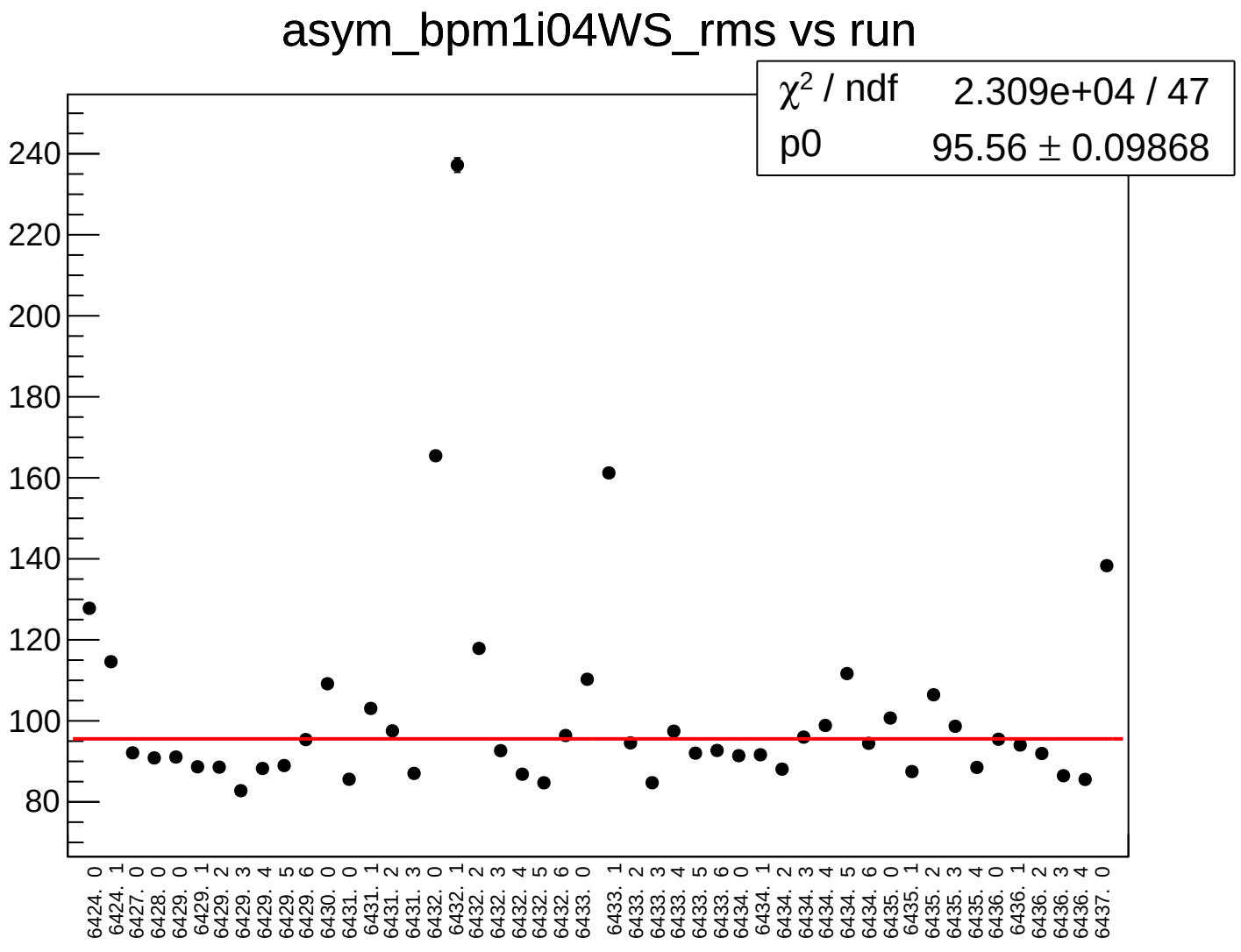
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −295.8
Std Dev 314.4
5
0
−5
−10
−15


pull1D
Entries 48
Mean 0.534
Std Dev 2.527
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i04WS_rms vs run
χ² / ndf 2.309e+04 / 47
p0 95.56 ± 0.09868
240
220
200
180
160
140
120
100
80
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
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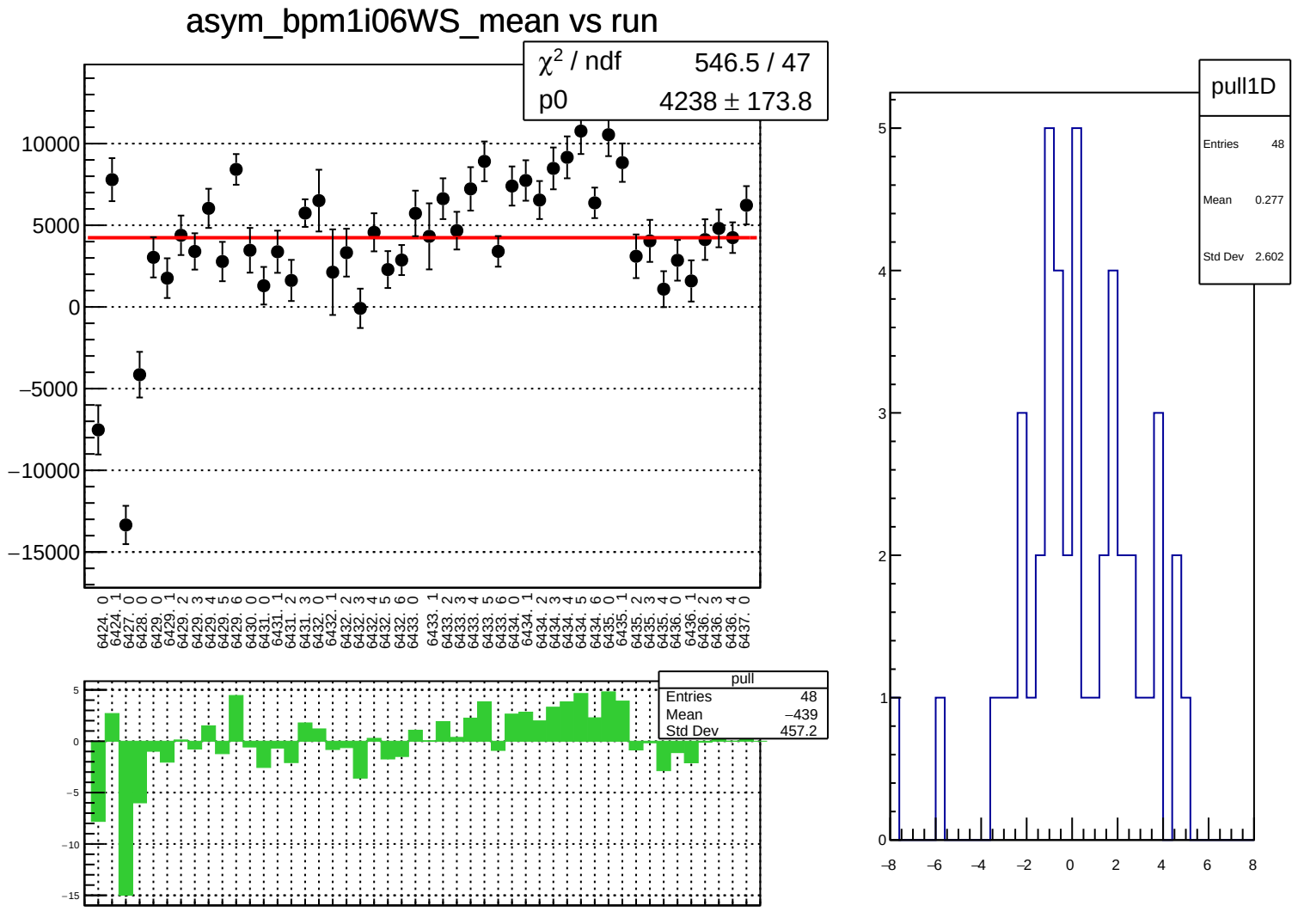
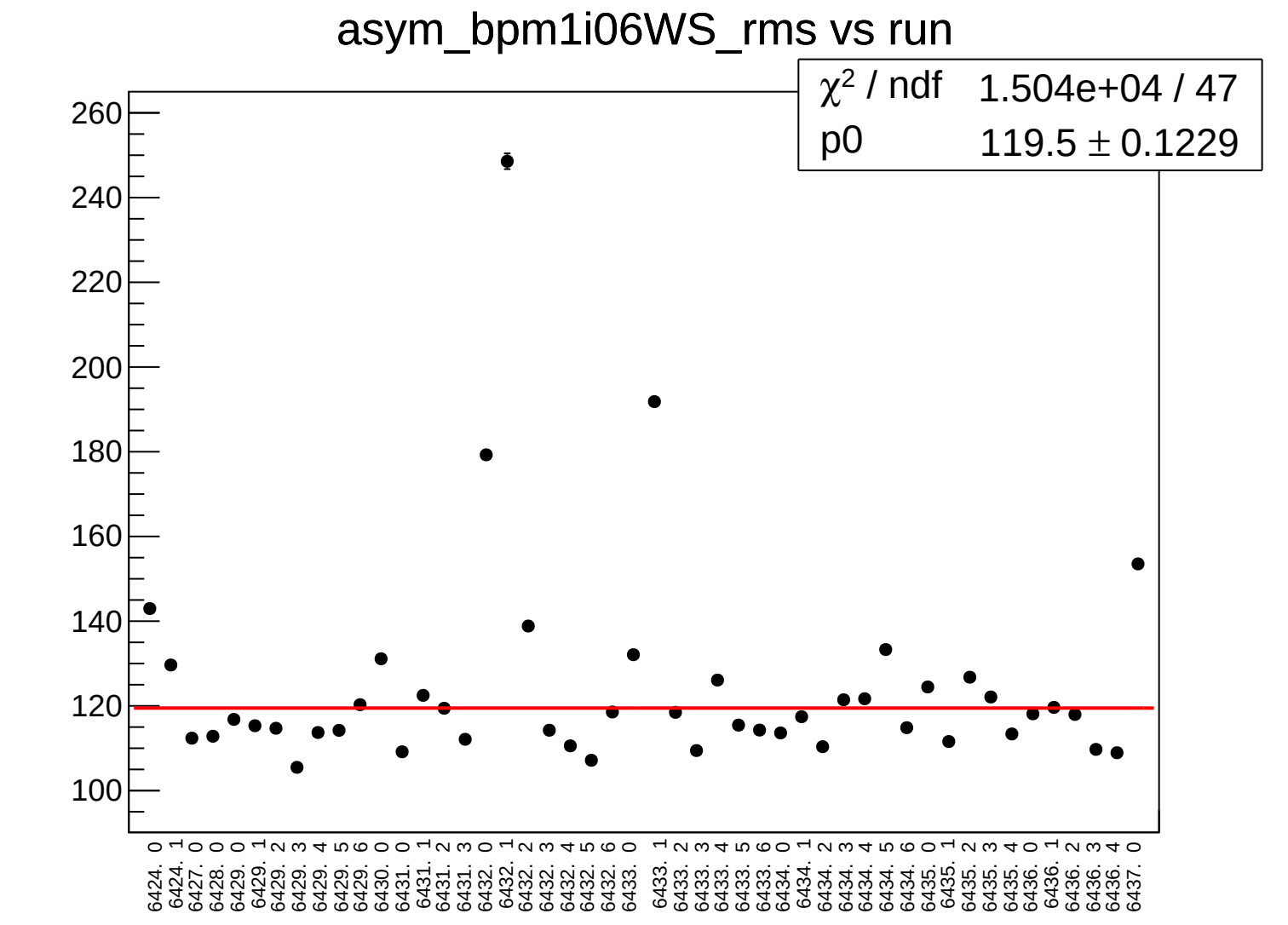
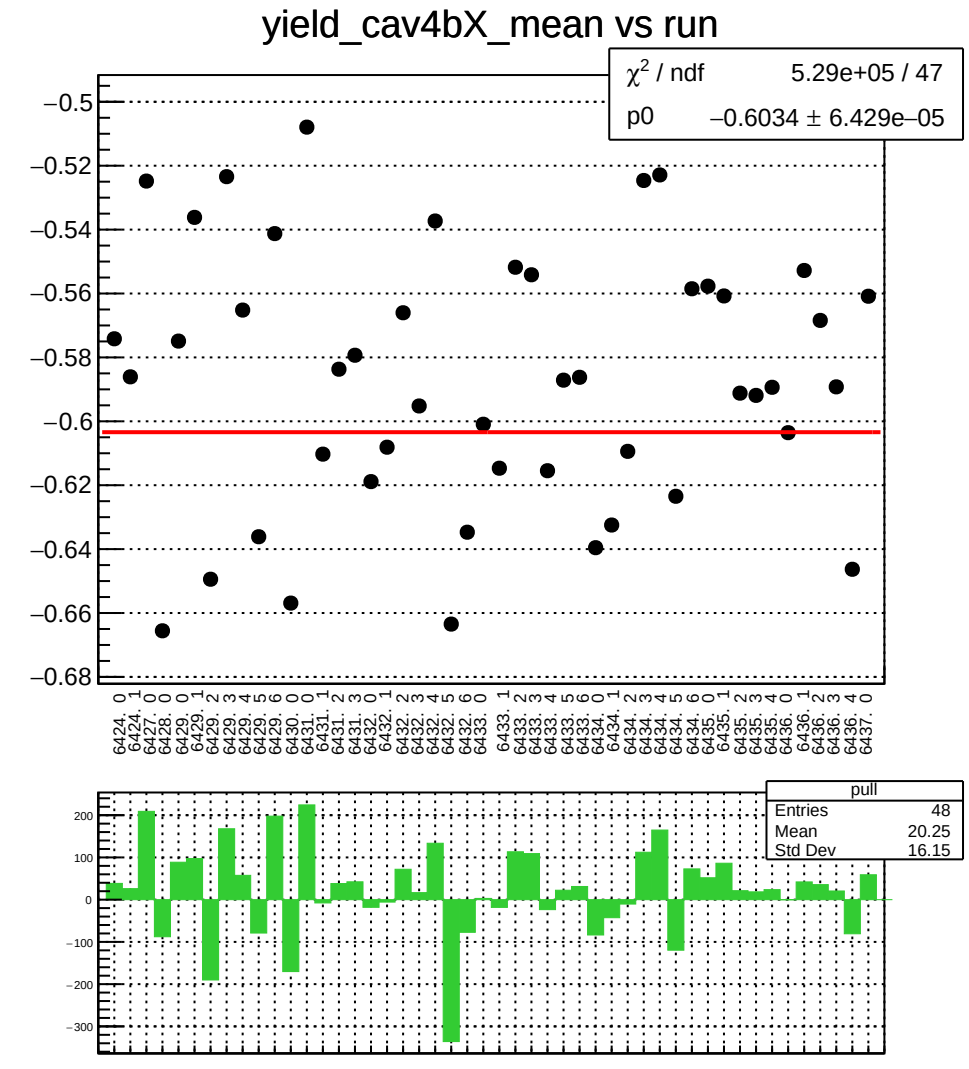
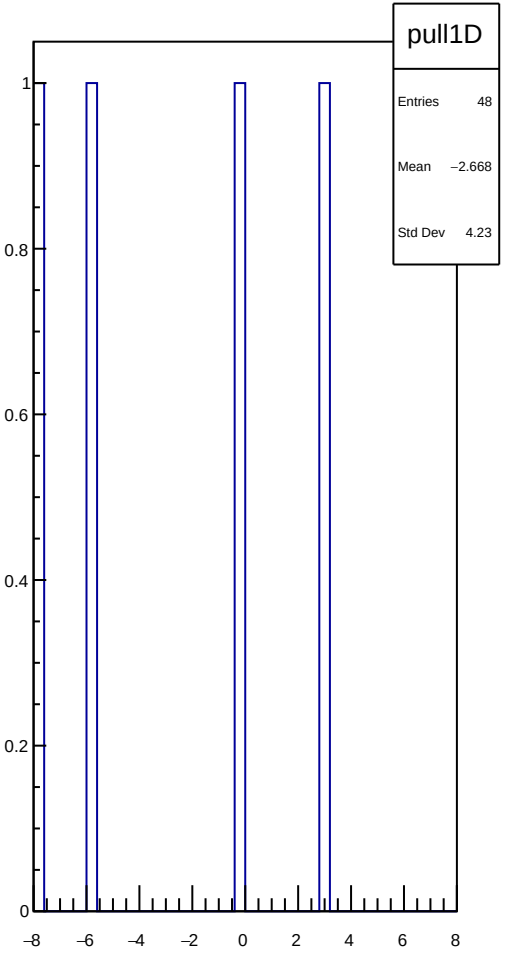
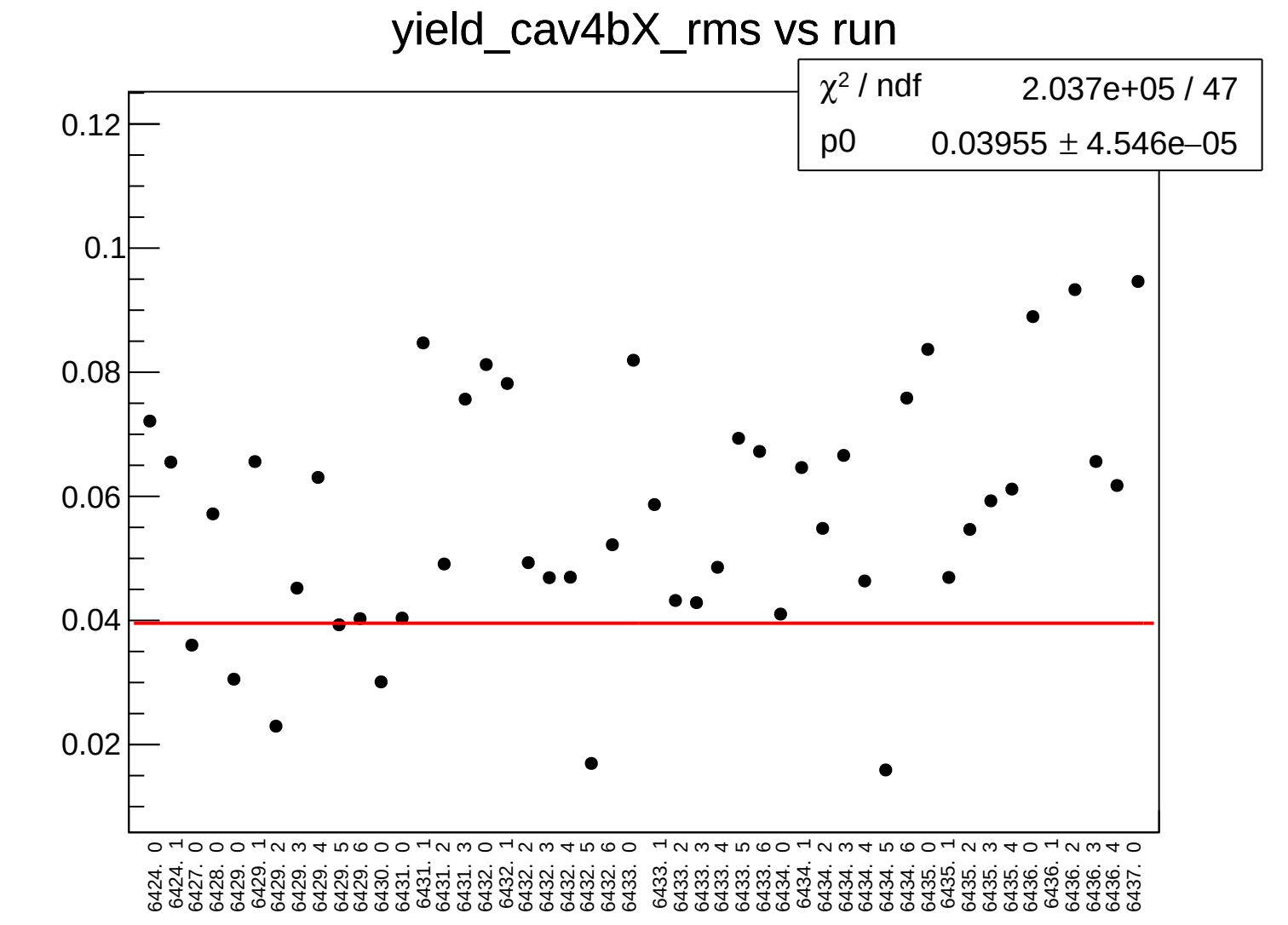
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

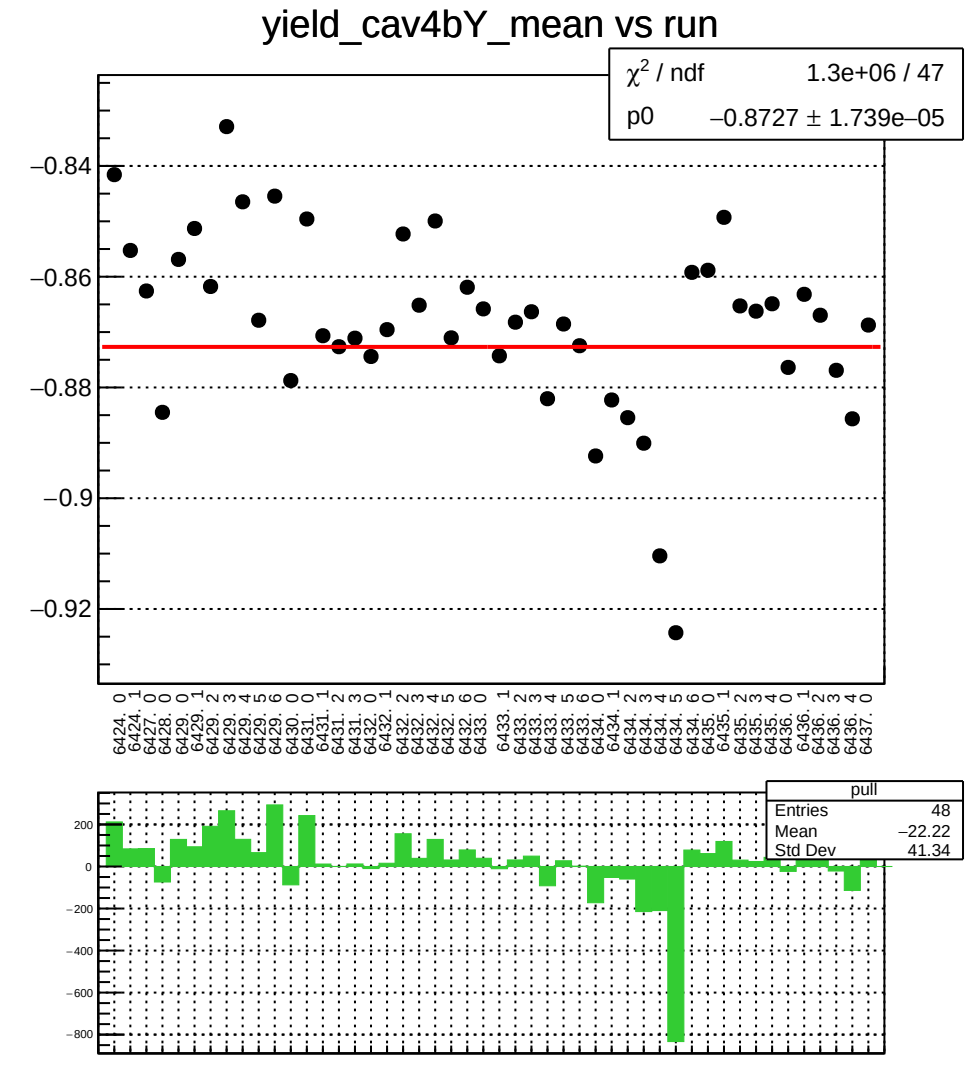

asym_bpm1i06WS_mean vs run
χ² / ndf 546.5 / 47
p0 4238 ± 173.8
10000
5000
0
−5000
−10000
−15000
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −439
Std Dev 457.2
5
0
−5
−10
−15
pull1D
Entries 48
Mean 0.277
Std Dev 2.602
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

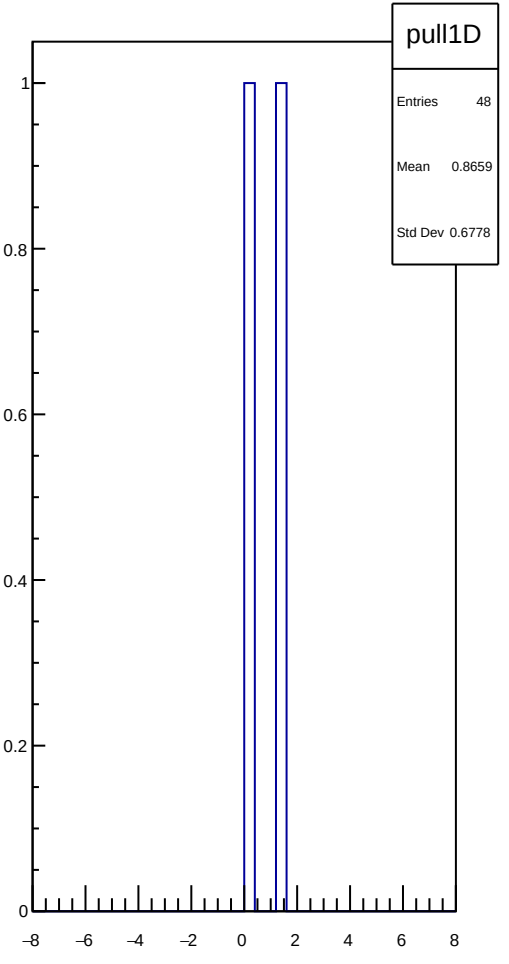

asym_bpm1i06WS_rms vs run
χ² / ndf 1.504e+04 / 47
p0 119.5 ± 0.1229
260
240
220
200
180
160
140
120
100
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

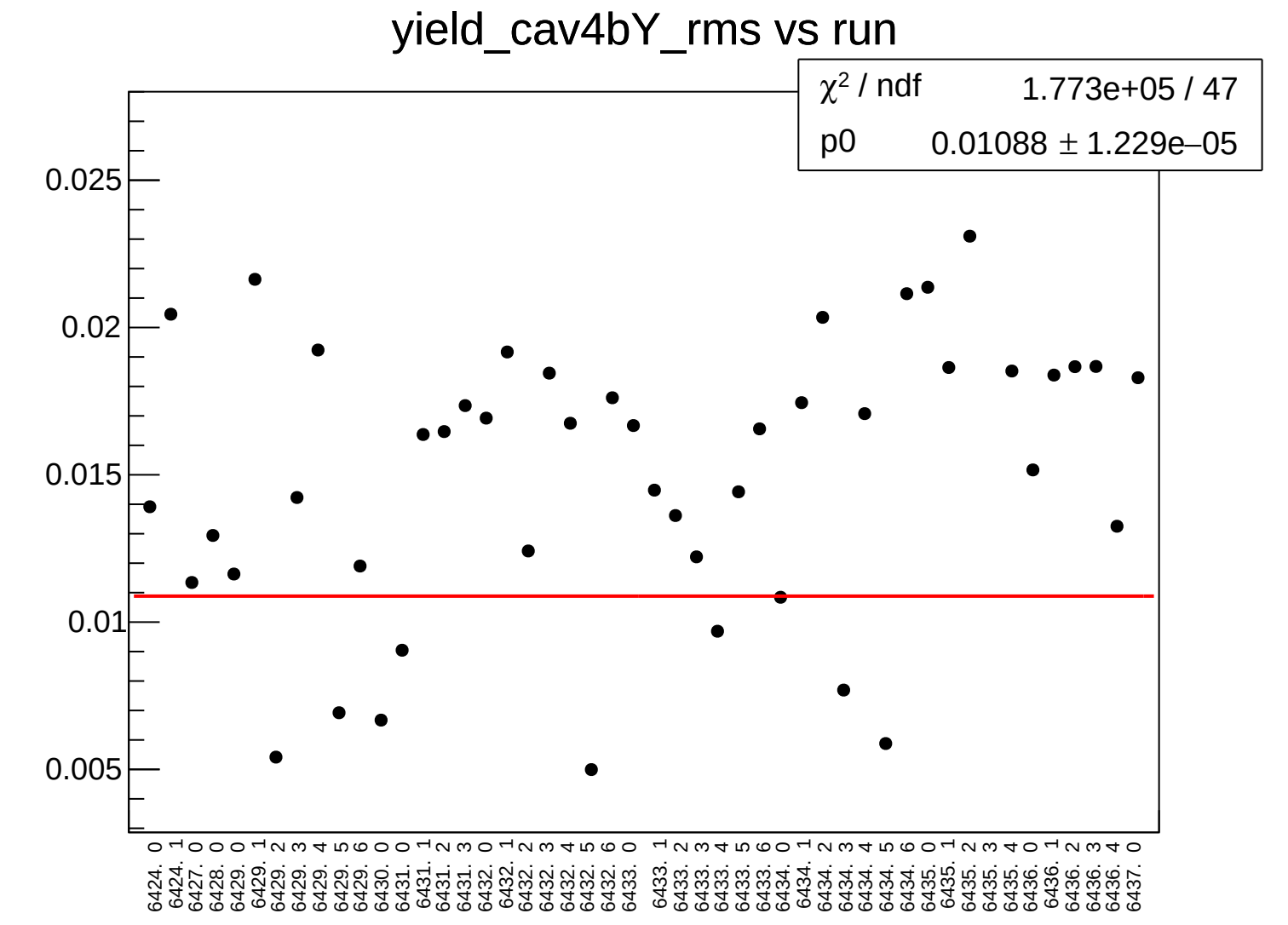

yield_cav4bX_mean vs run
χ² / ndf 5.29e+05 / 47
p0 −0.6034 ± 6.429e−05
pull
Entries 48
Mean 20.25
Std Dev 16.15

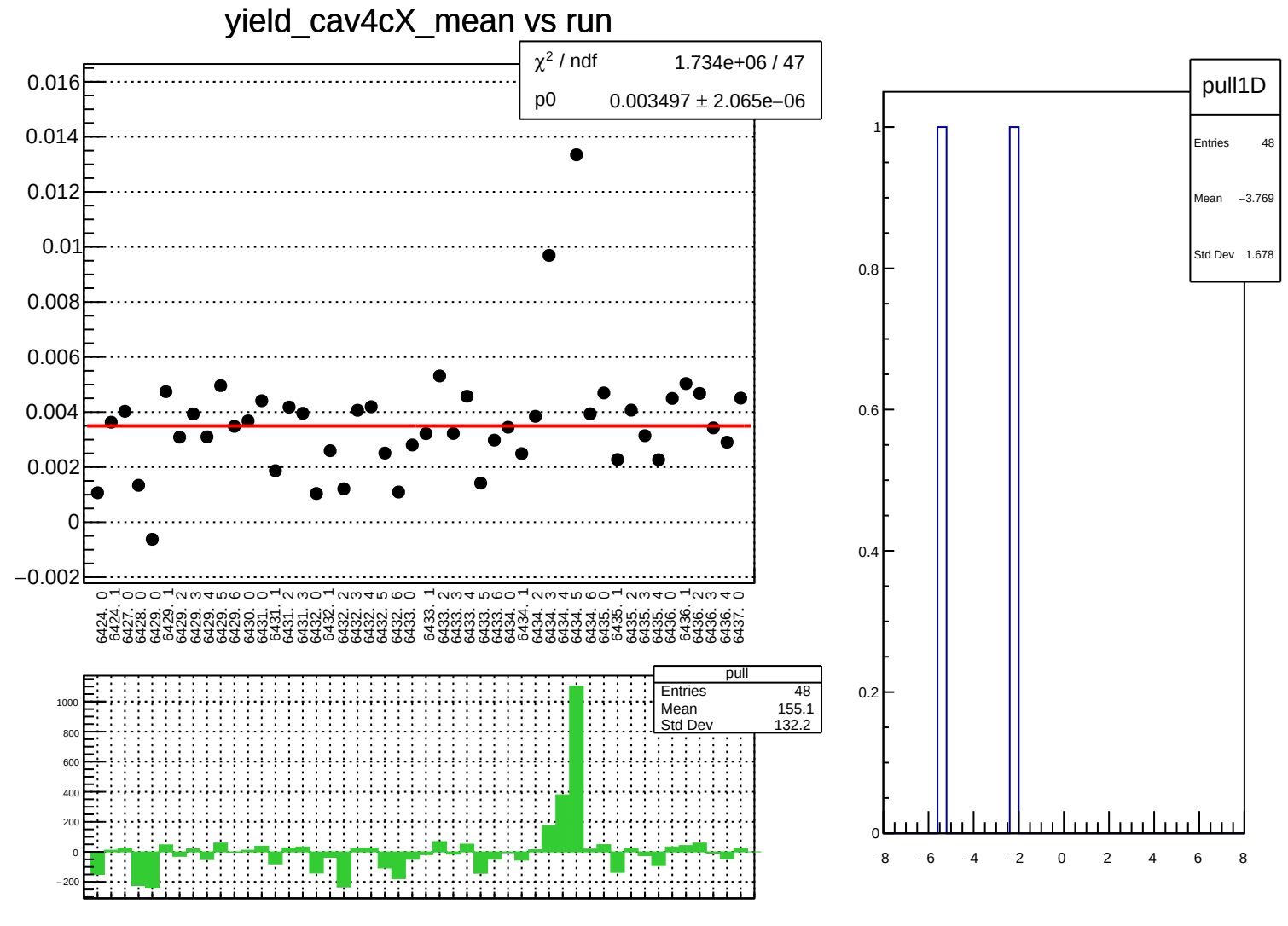

pull1D
Entries 48
Mean −2.668
Std Dev 4.23

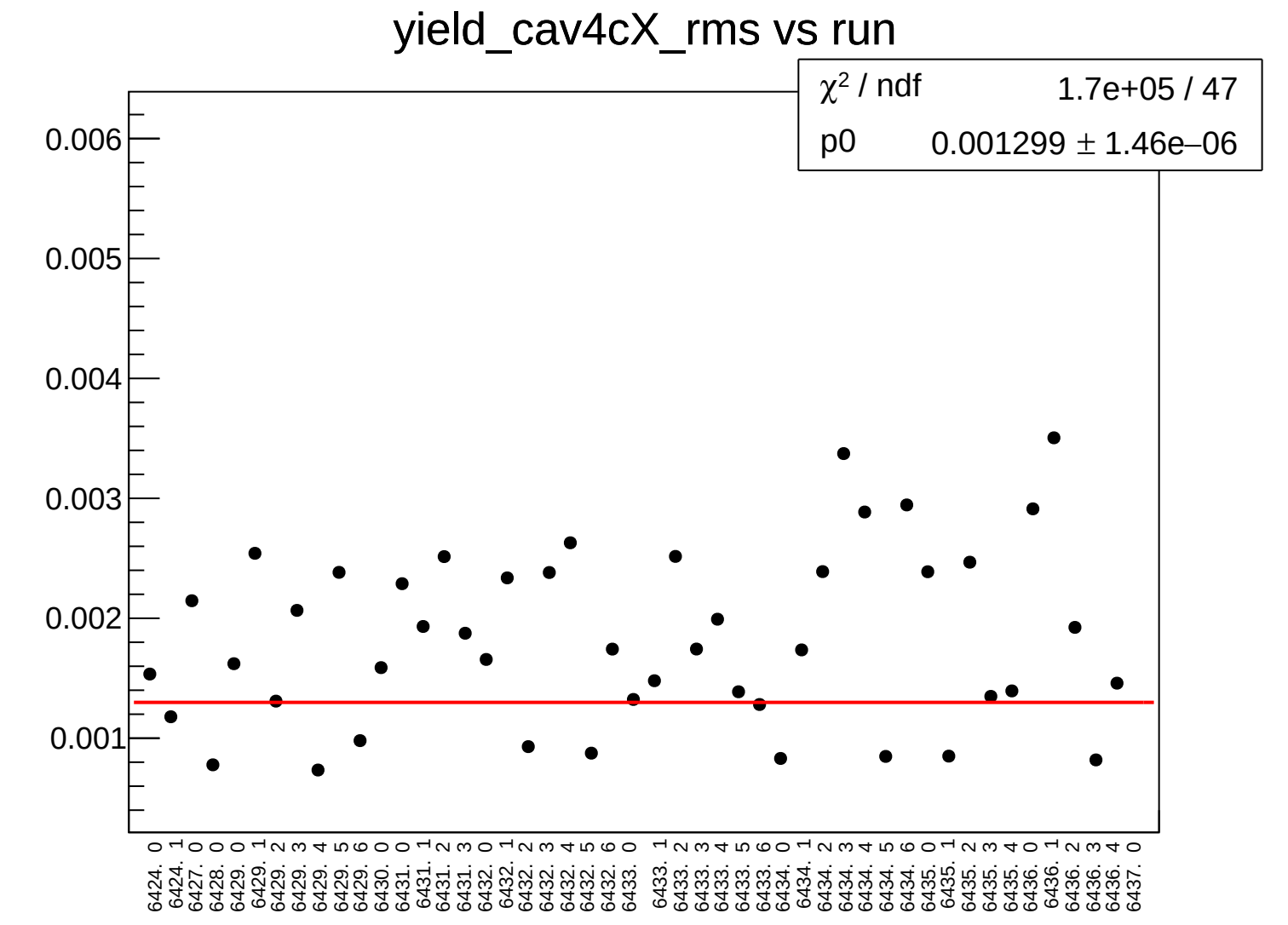

yield_cav4bX_rms vs run
χ² / ndf 2.037e+05 / 47
p0 0.03955 ± 4.546e–05
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

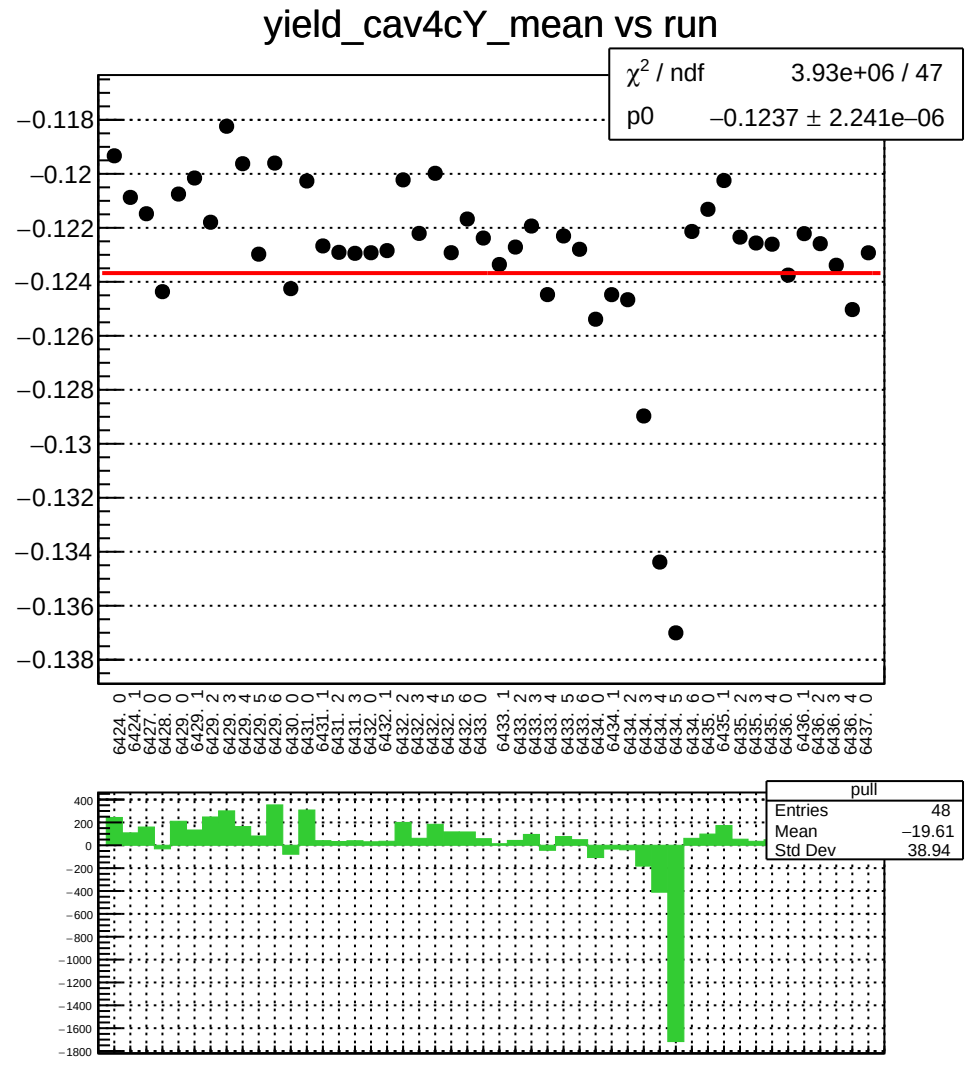

yield_cav4bY_mean vs run
χ² / ndf 1.3e+06 / 47
p0 −0.8727 ± 1.739e−05
−0.84
−0.86
−0.88
−0.9
−0.92
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −22.22
Std Dev 41.34
200
0
−200
−400
−600
−800

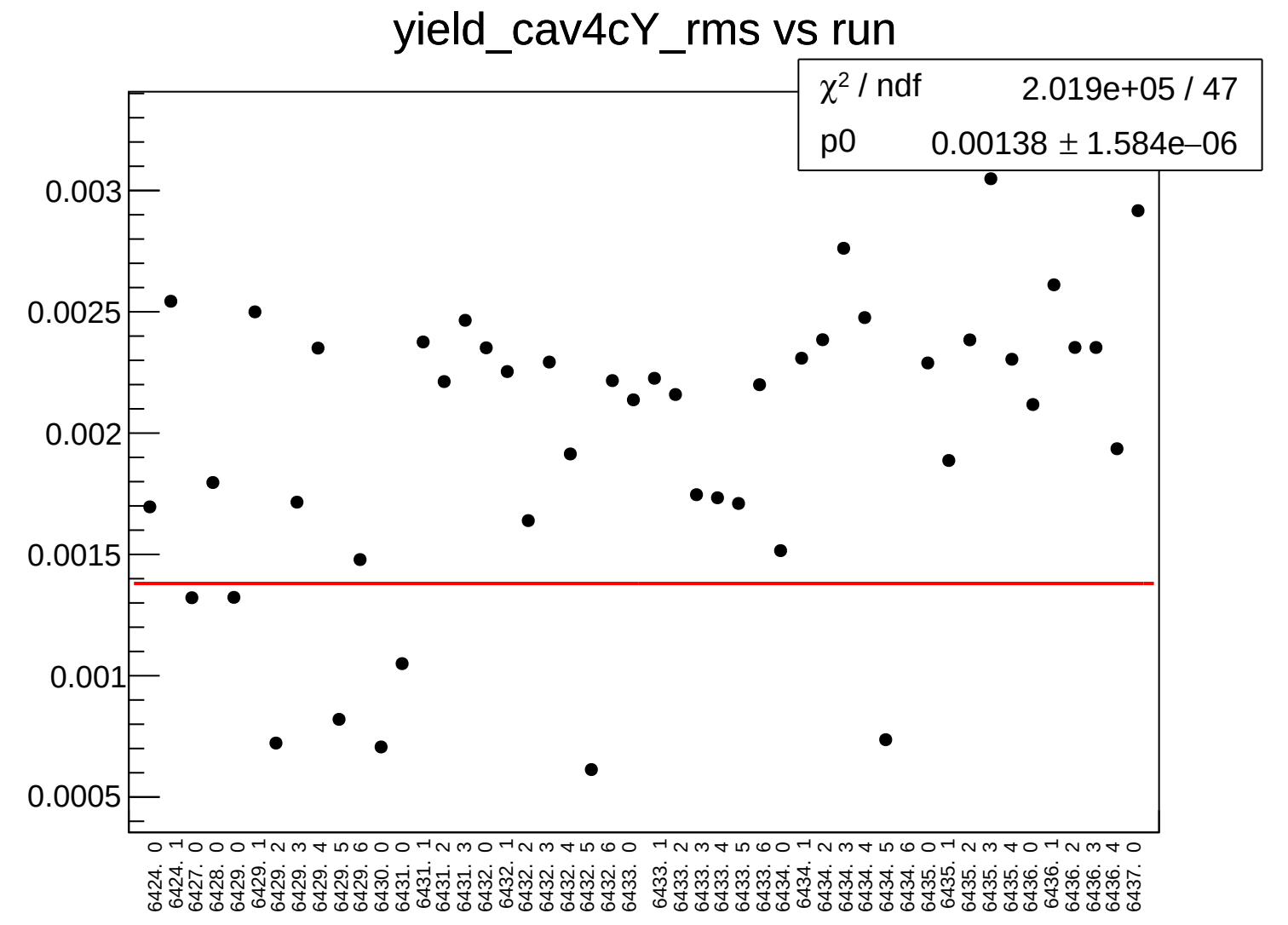

pull1D
Entries 48
Mean 0.8659
Std Dev 0.6778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

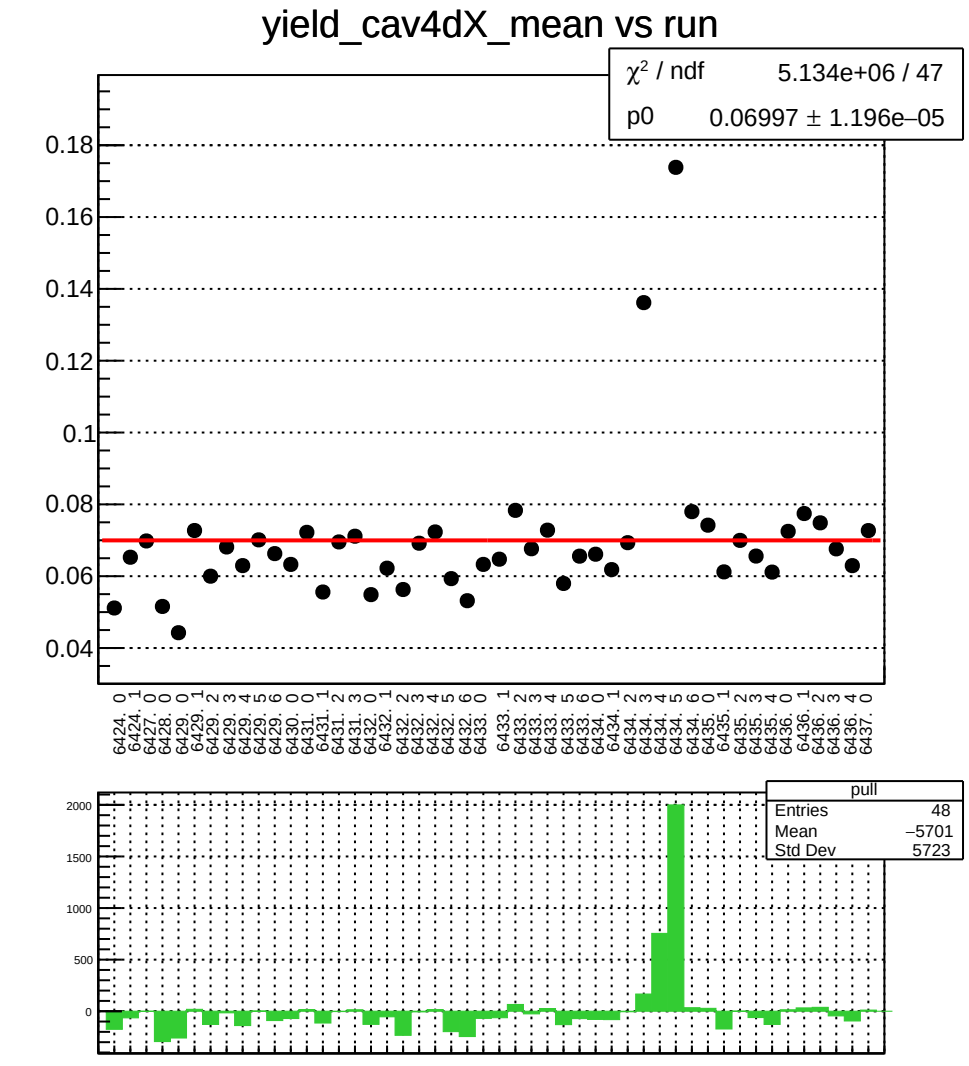

yield_cav4bY_rms vs run
χ² / ndf 1.773e+05 / 47
p0 0.01088 ± 1.229e−05
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

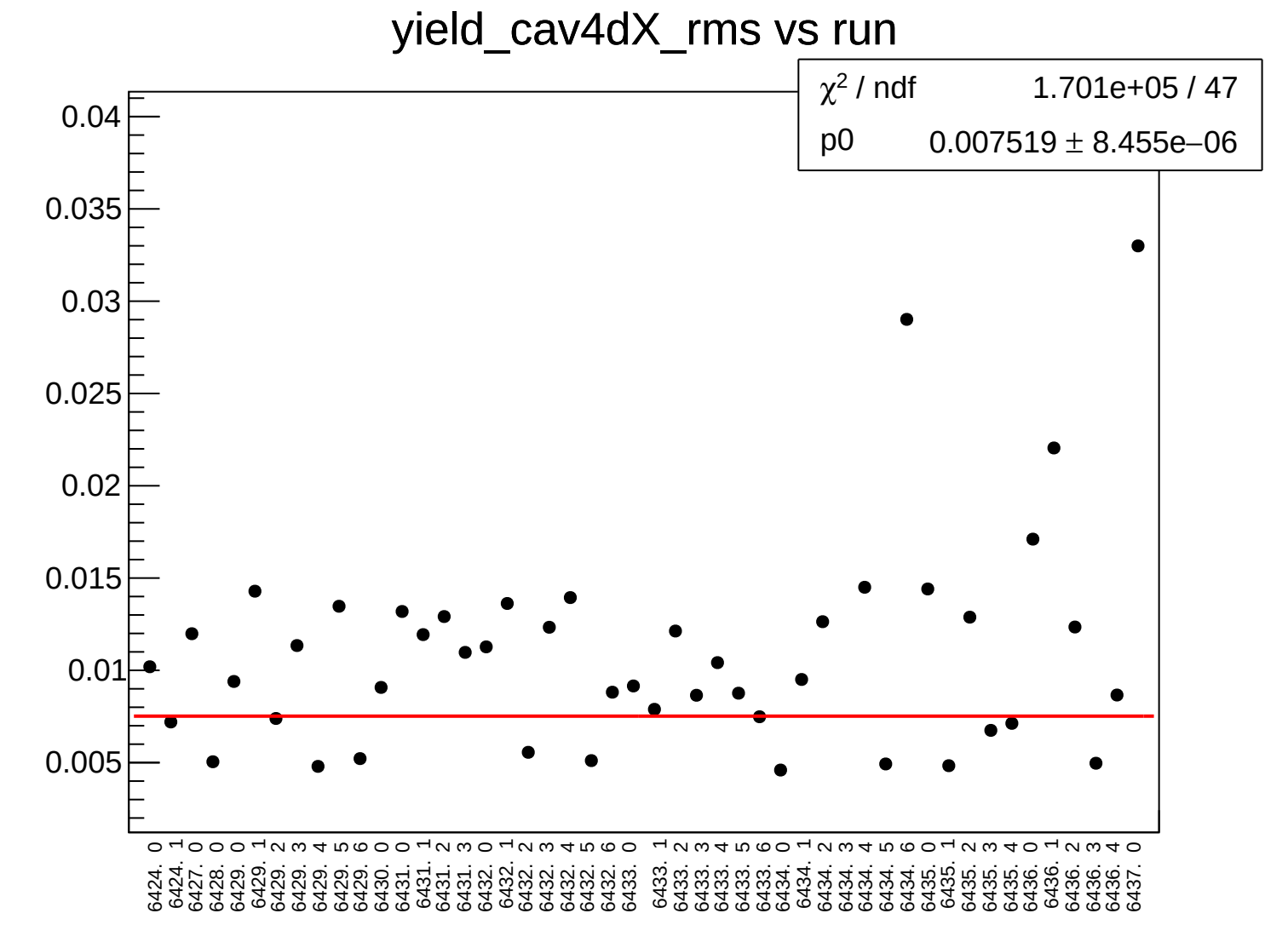

yield_cav4cX_mean vs run
χ² / ndf 1.734e+06 / 47
p0 0.003497 ± 2.065e−06
pull
Entries 48
Mean 155.1
Std Dev 132.2
pull1D
Entries 48
Mean −3.769
Std Dev 1.678

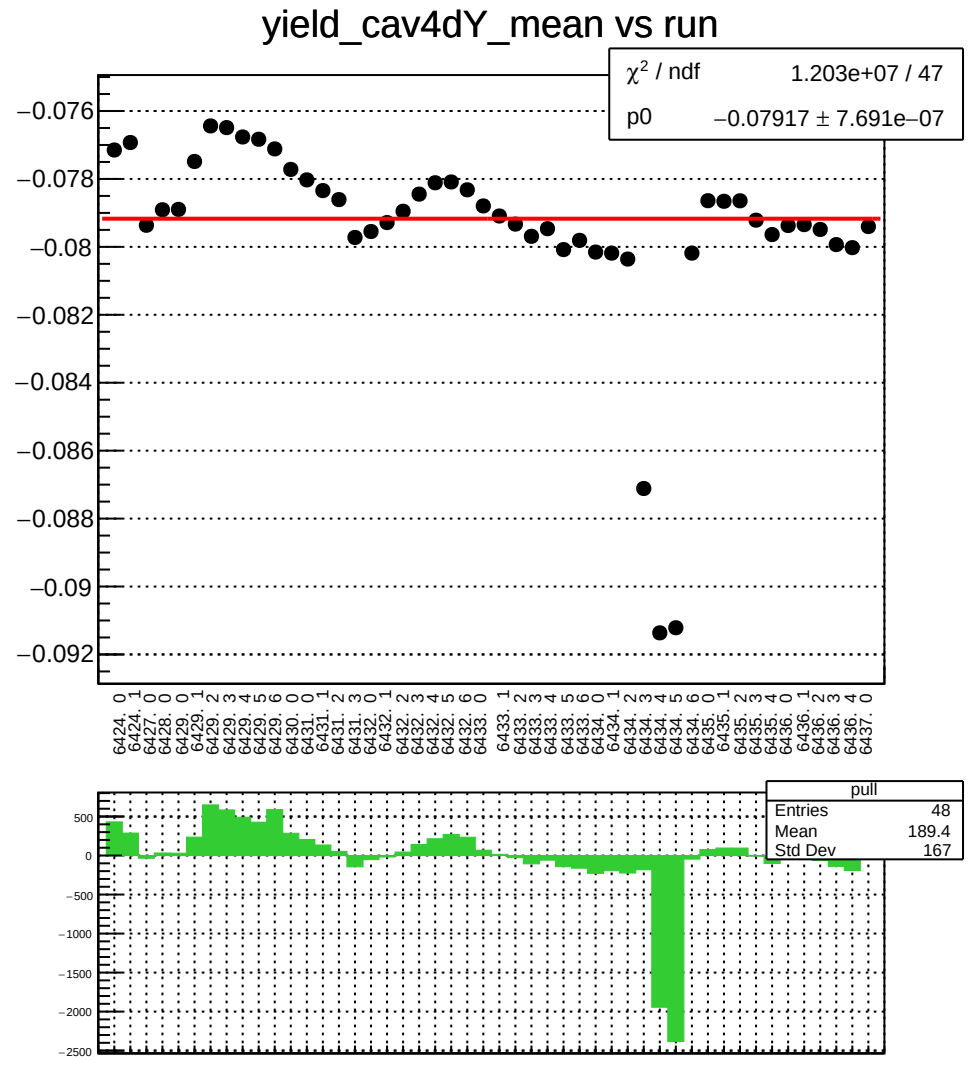

yield_cav4cX_rms vs run
χ² / ndf 1.7e+05 / 47
p0 0.001299 ± 1.46e–06
0.006
0.005
0.004
0.003
0.002
0.001
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

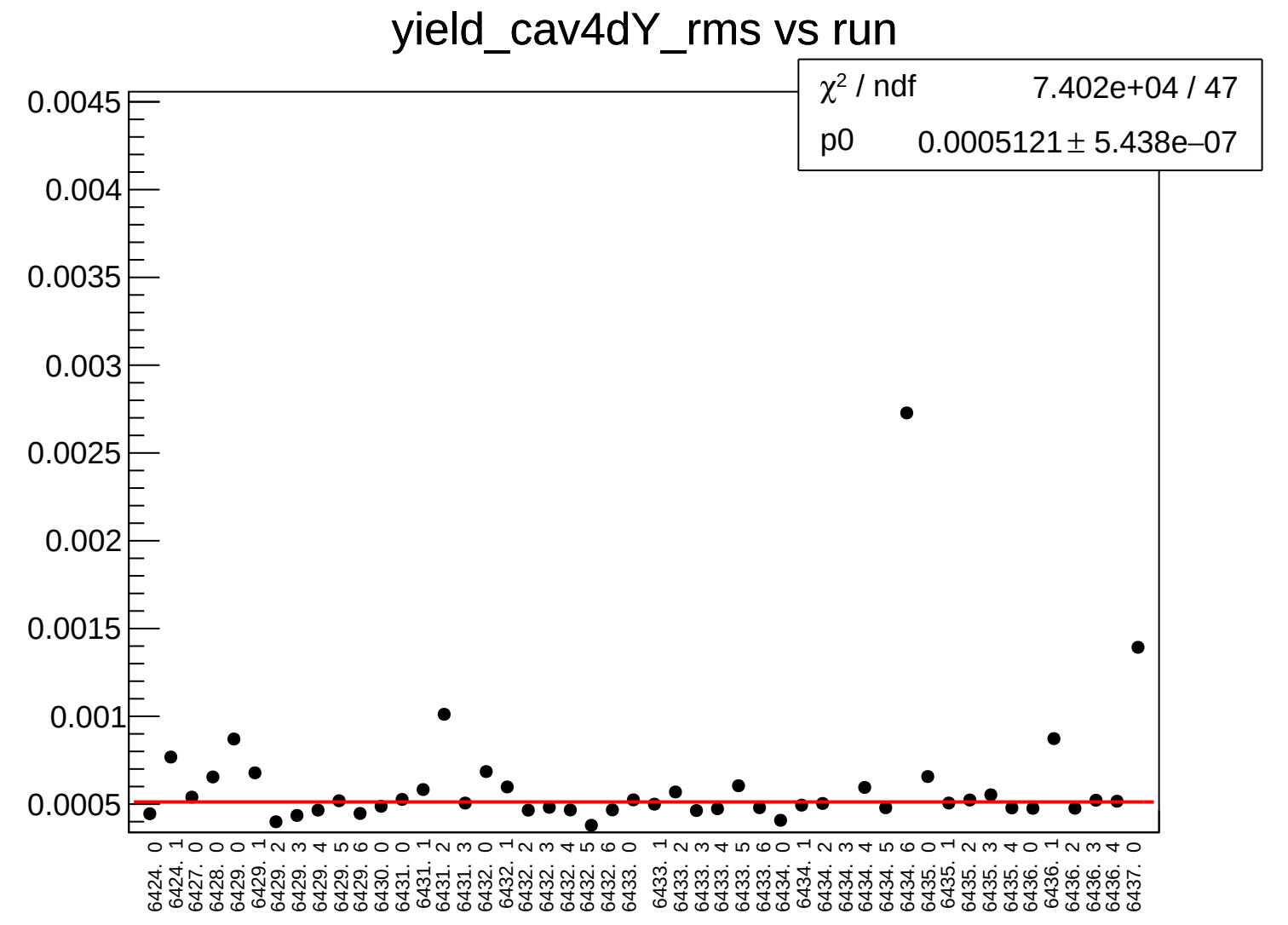

yield_cav4cY_mean vs run
χ² / ndf 3.93e+06 / 47
p0 −0.1237 ± 2.241e−06
−0.118
−0.12
−0.122
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
−0.136
−0.138
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −19.61
Std Dev 38.94
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 48
Mean −3.329
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

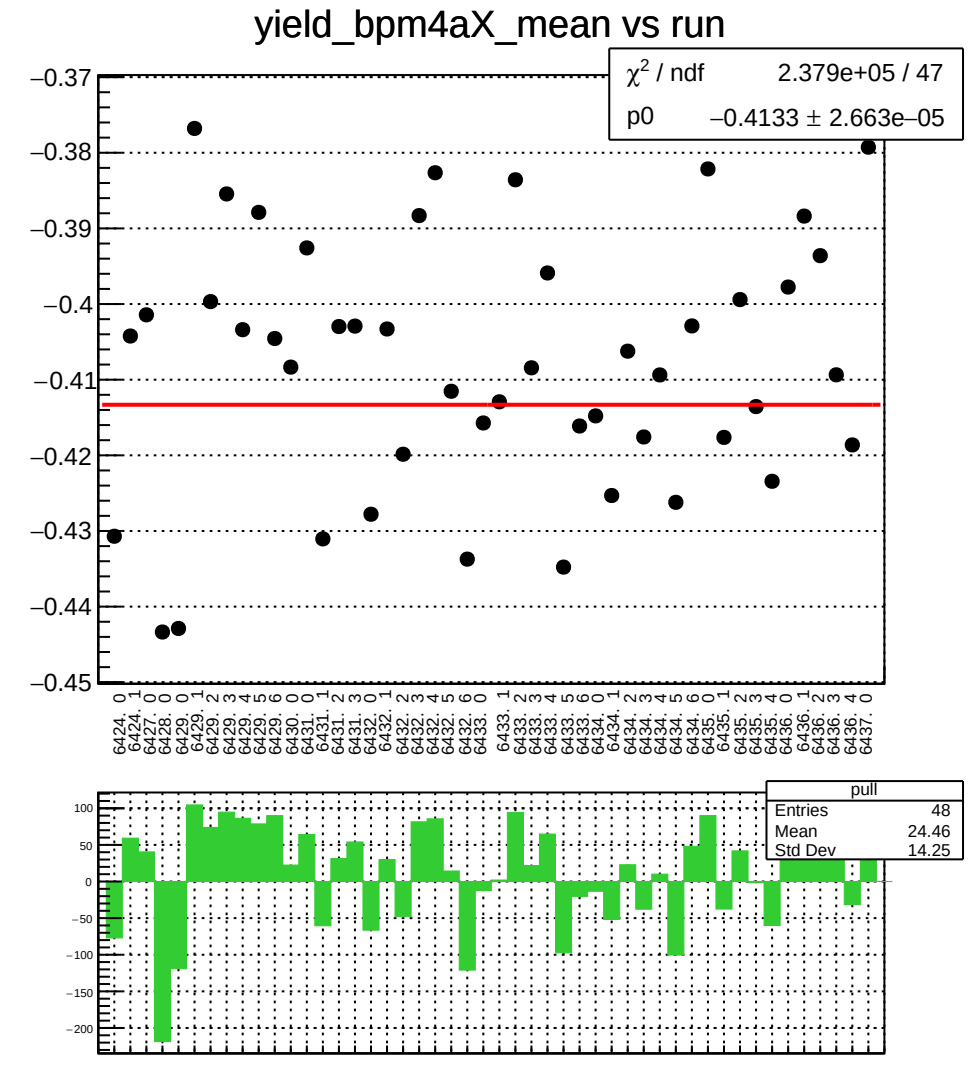

yield_cav4cY_rms vs run
χ² / ndf 2.019e+05 / 47
p0 0.00138 ± 1.584e−06
0.003
0.0025
0.002
0.0015
0.001
0.0005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

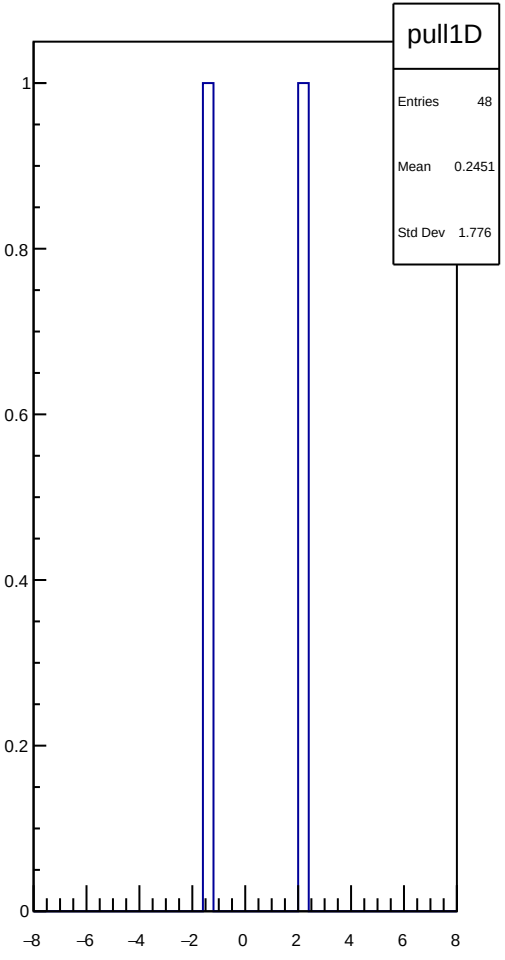

yield_cav4dX_mean vs run
χ² / ndf 5.134e+06 / 47
p0 0.06997 ± 1.196e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −5701
Std Dev 5723
2000
1500
1000
500
0
pull1D
Entries 48
Mean −2.36
Std Dev 2.535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

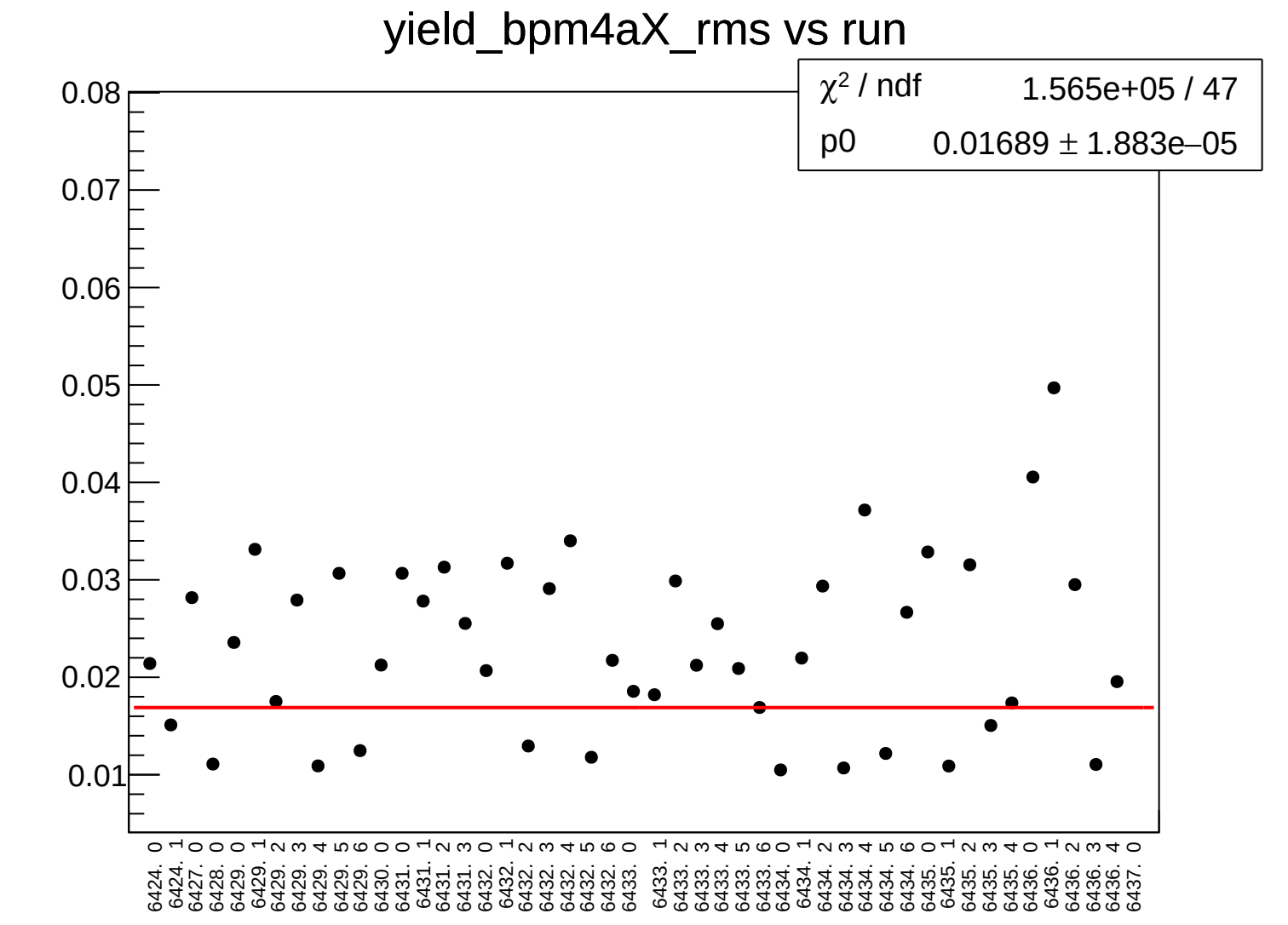

yield_cav4dX_rms vs run
χ² / ndf 1.701e+05 / 47
p0 0.007519 ± 8.455e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_cav4dY_mean vs run
χ² / ndf 1.203e+07 / 47
p0 −0.07917 ± 7.691e−07
−0.076
−0.078
−0.08
−0.082
−0.084
−0.086
−0.088
−0.09
−0.092
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 189.4
Std Dev 167
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 48
Mean −7.459
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ² / ndf 7.402e+04 / 47
p0 0.0005121 ± 5.438e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_bpm4aX_mean vs run
χ² / ndf 2.379e+05 / 47
p0 −0.4133 ± 2.663e−05
−0.37
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24.46
Std Dev 14.25
100
50
0
−50
−100
−150
−200


pull1D
Entries 48
Mean 0.2451
Std Dev 1.776
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aX_rms vs run
χ² / ndf 1.565e+05 / 47
p0 0.01689 ± 1.883e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
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6432. 6
6433. 0
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6433. 2
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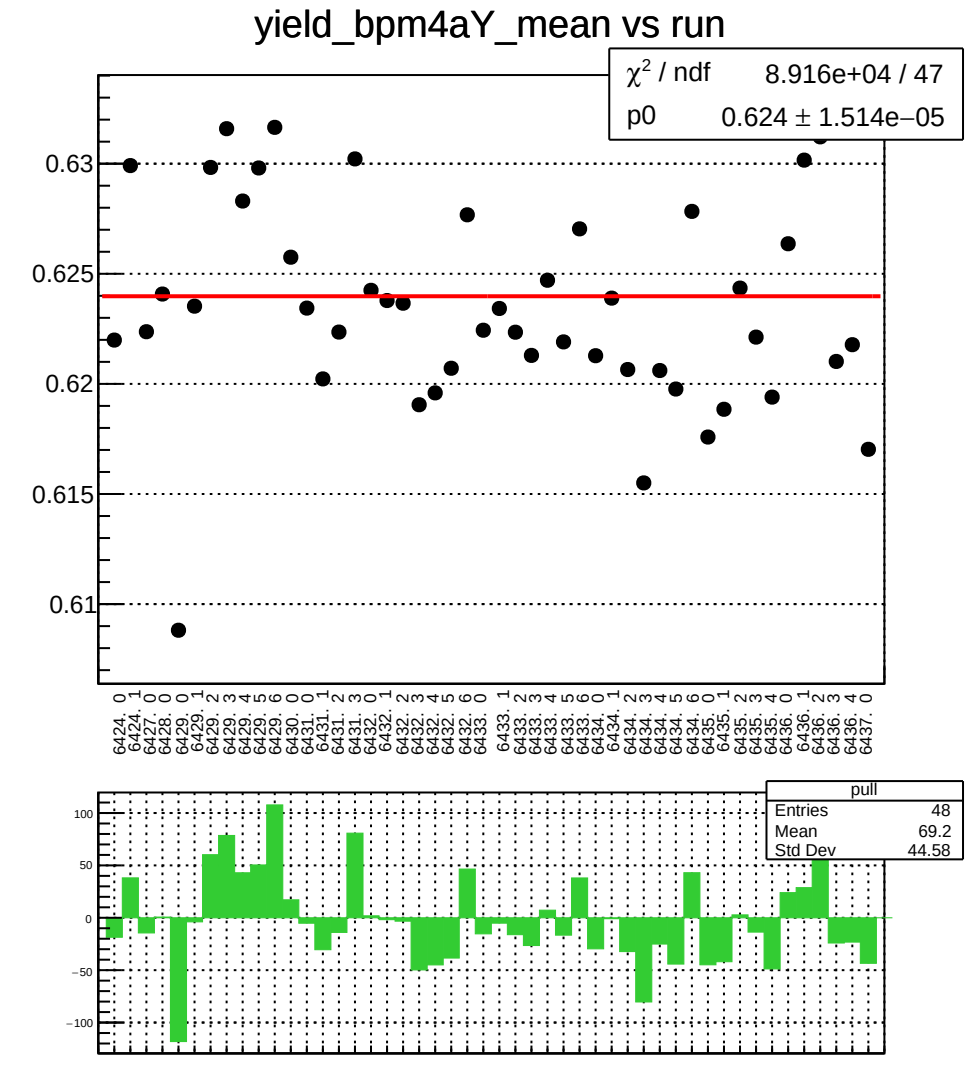
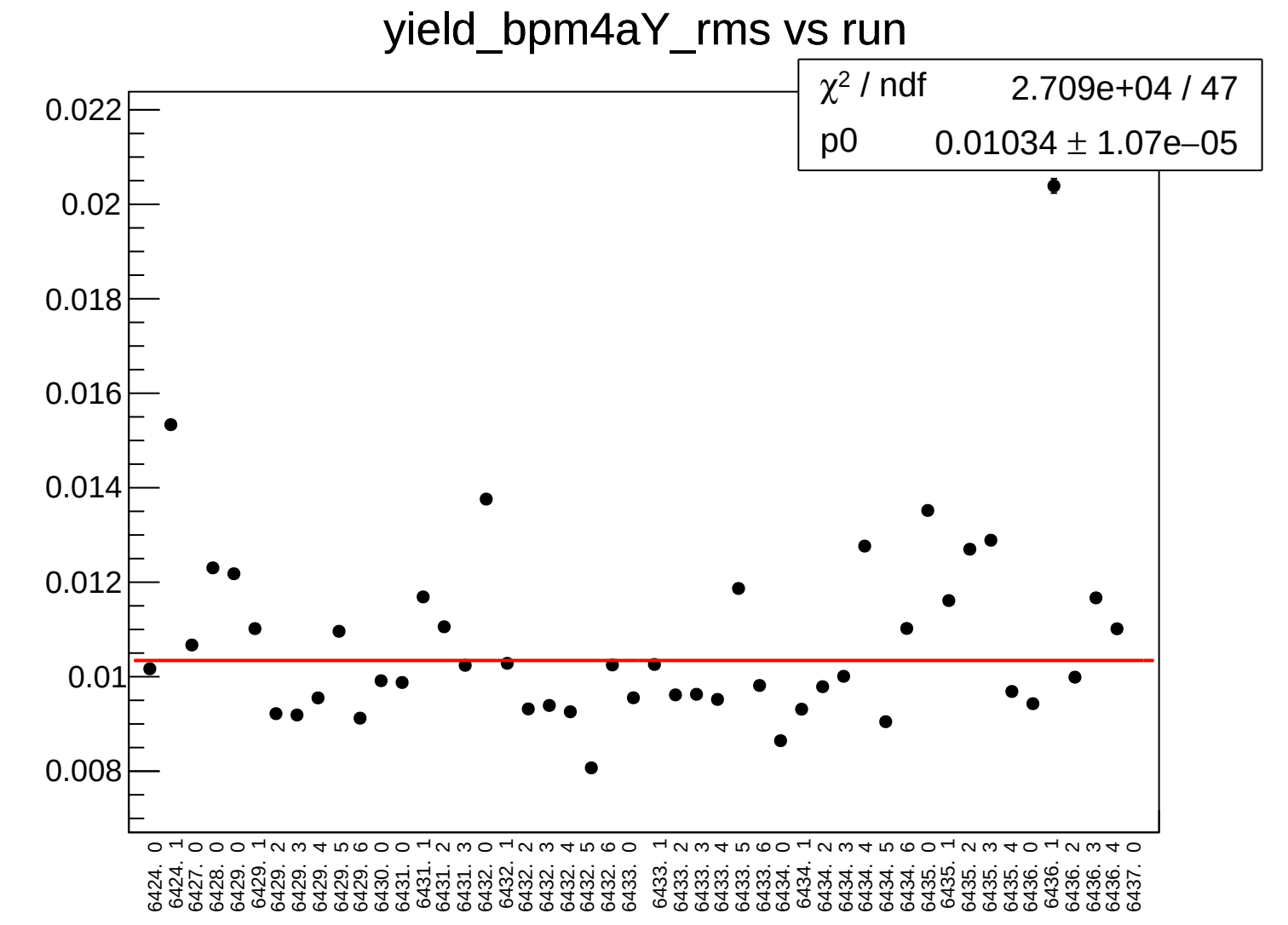
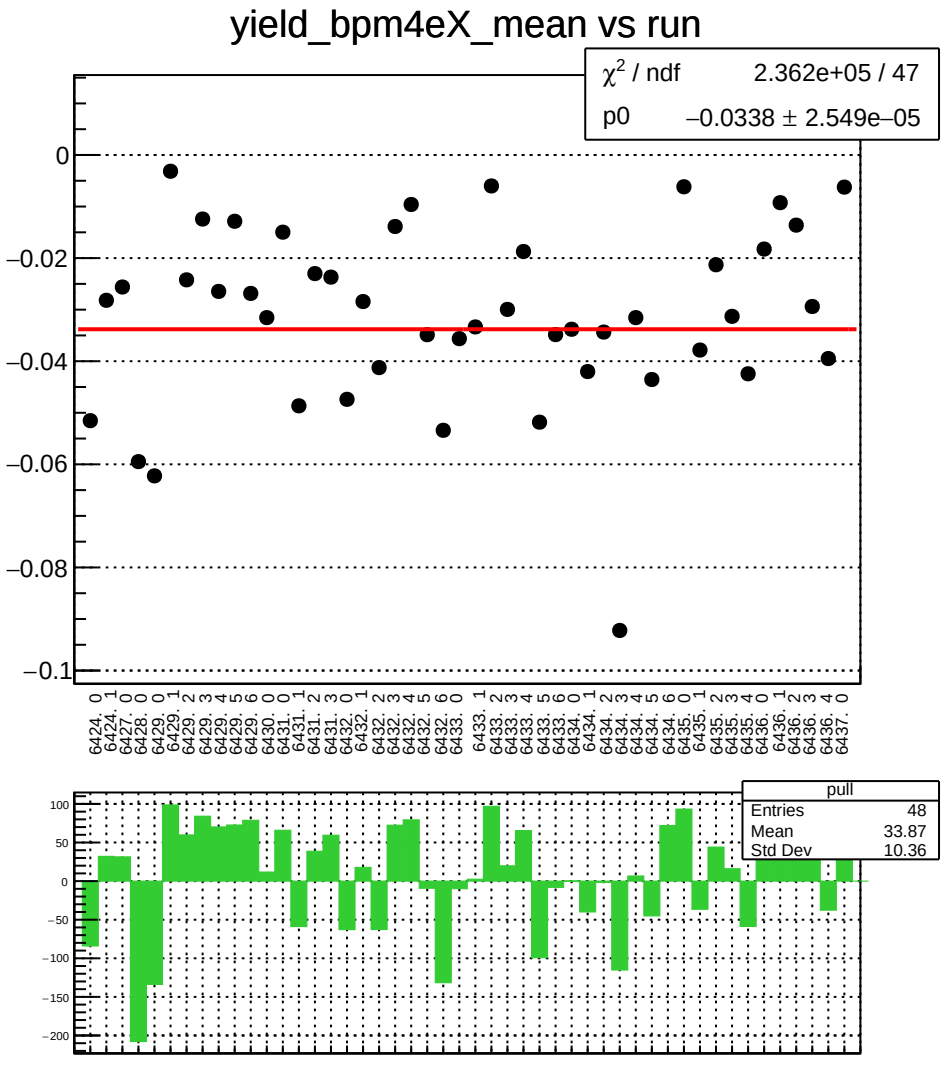
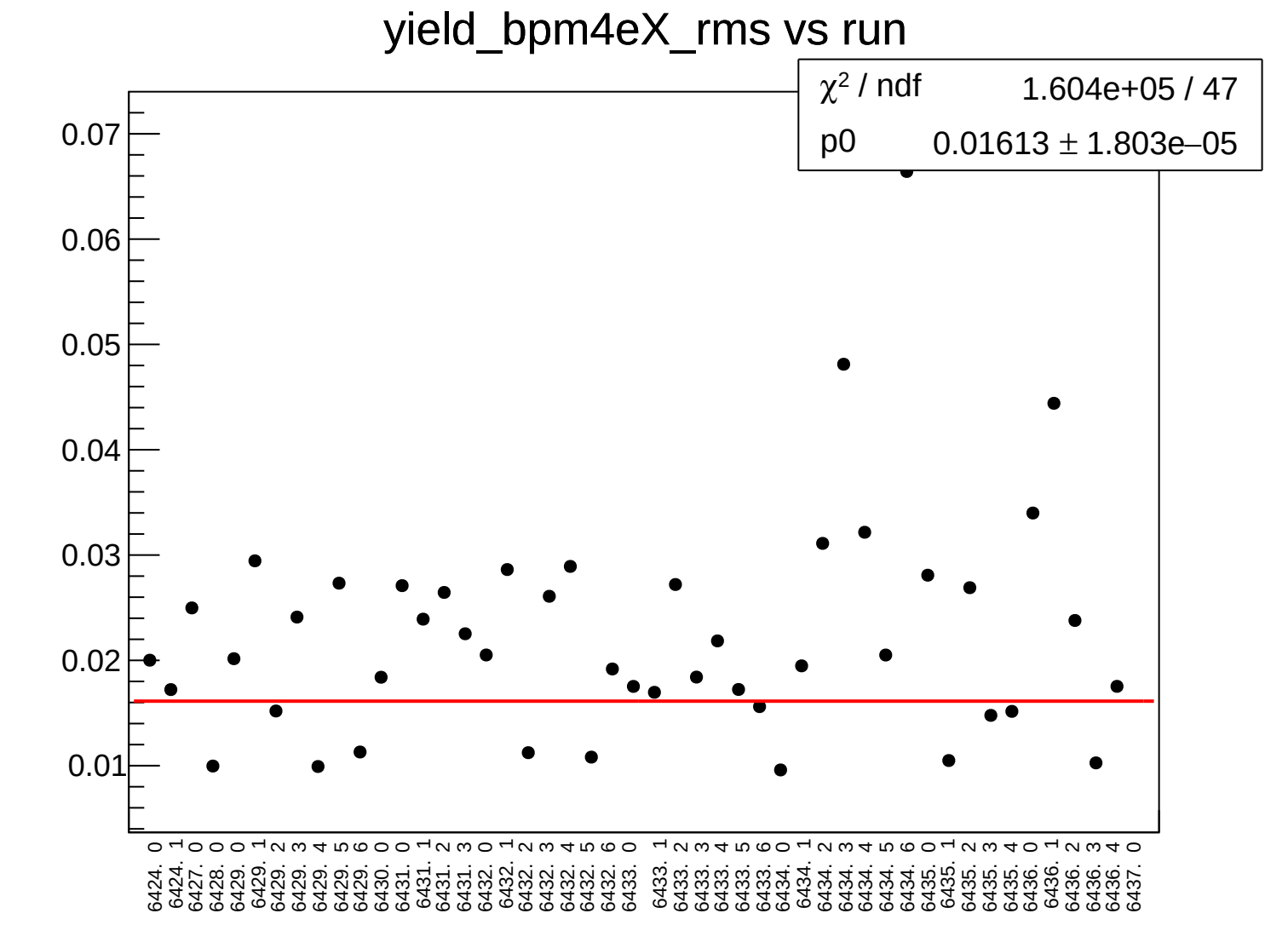
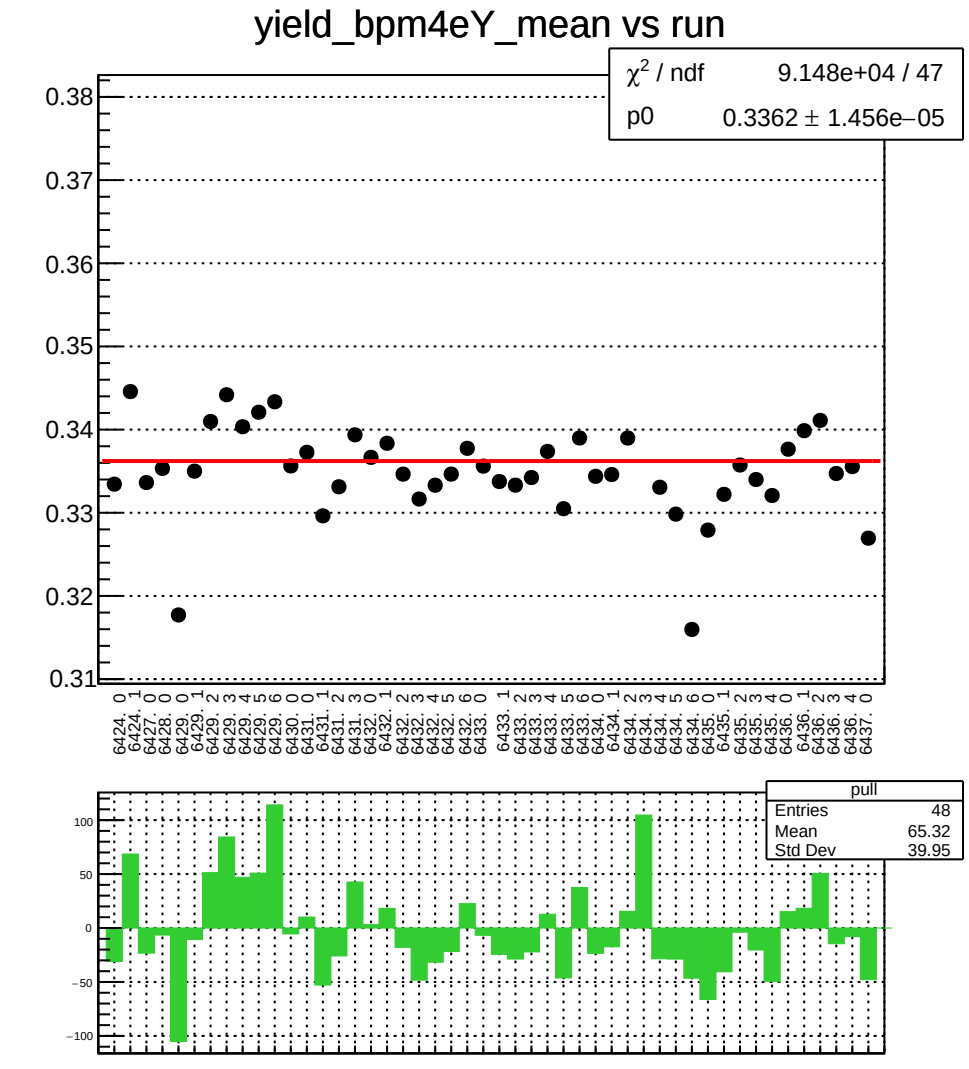
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

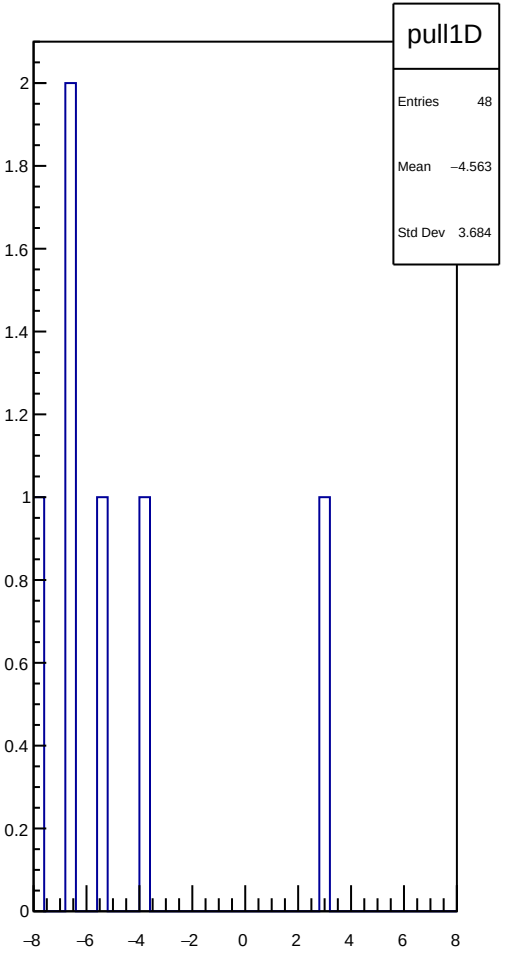

yield_bpm4aY_mean vs run
χ² / ndf 8.916e+04 / 47
p0 0.624 ± 1.514e−05
0.63
0.625
0.62
0.615
0.61
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 69.2
Std Dev 44.58
100
50
0
−50
−100
pull1D
Entries 48
Mean −0.7526
Std Dev 3.751
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

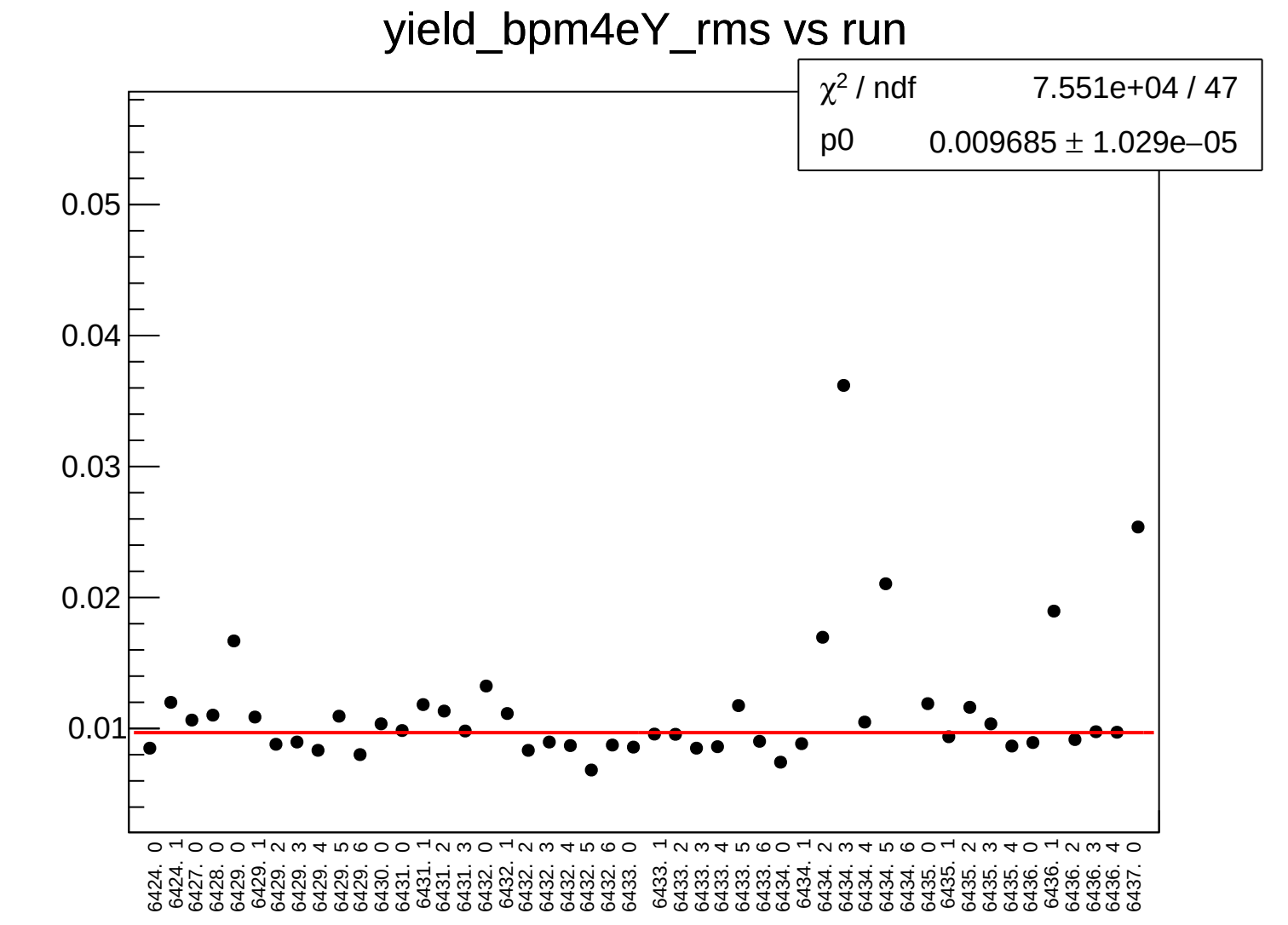

yield_bpm4aY_rms vs run
χ² / ndf 2.709e+04 / 47
p0 0.01034 ± 1.07e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

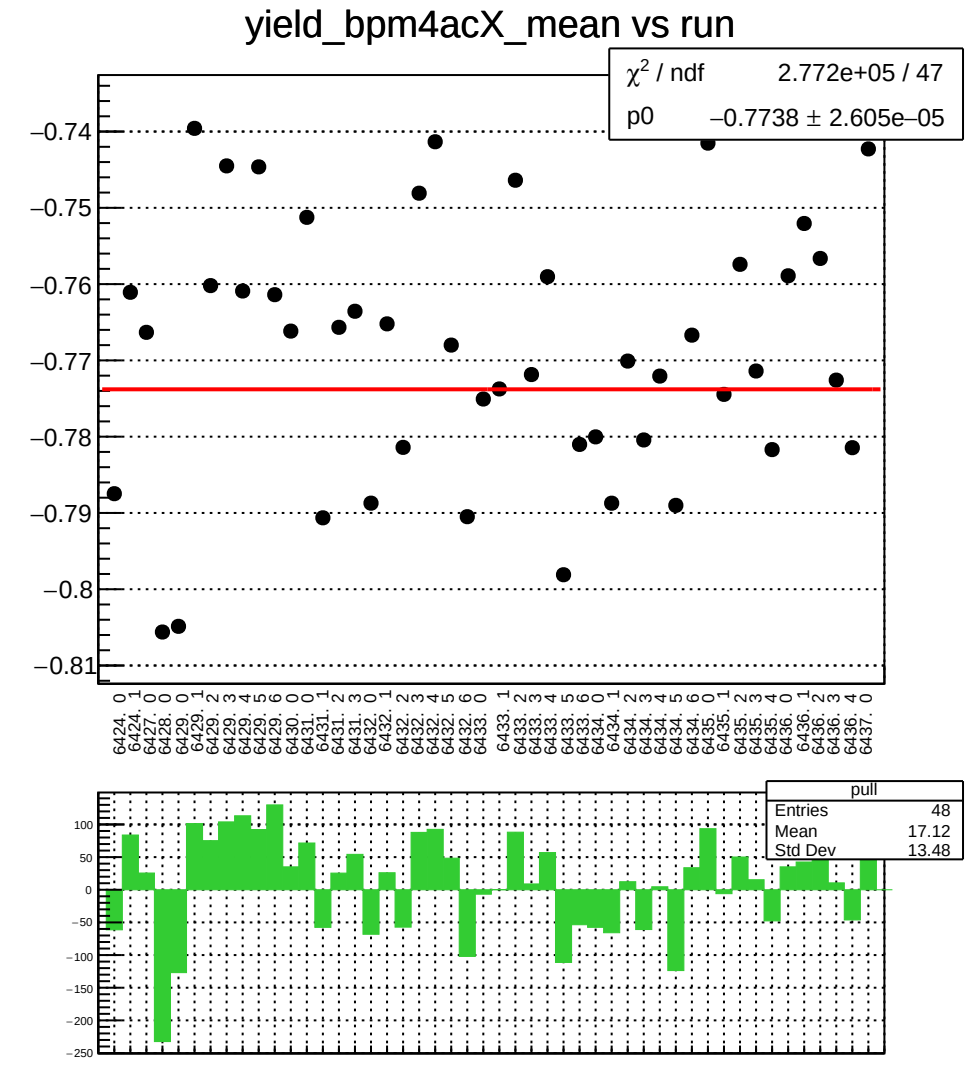

yield_bpm4eX_mean vs run
χ² / ndf 2.362e+05 / 47
p0 −0.0338 ± 2.549e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 33.87
Std Dev 10.36
100
50
0
−50
−100
−150
−200
pull1D
Entries 48
Mean 1.868
Std Dev 3.136
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

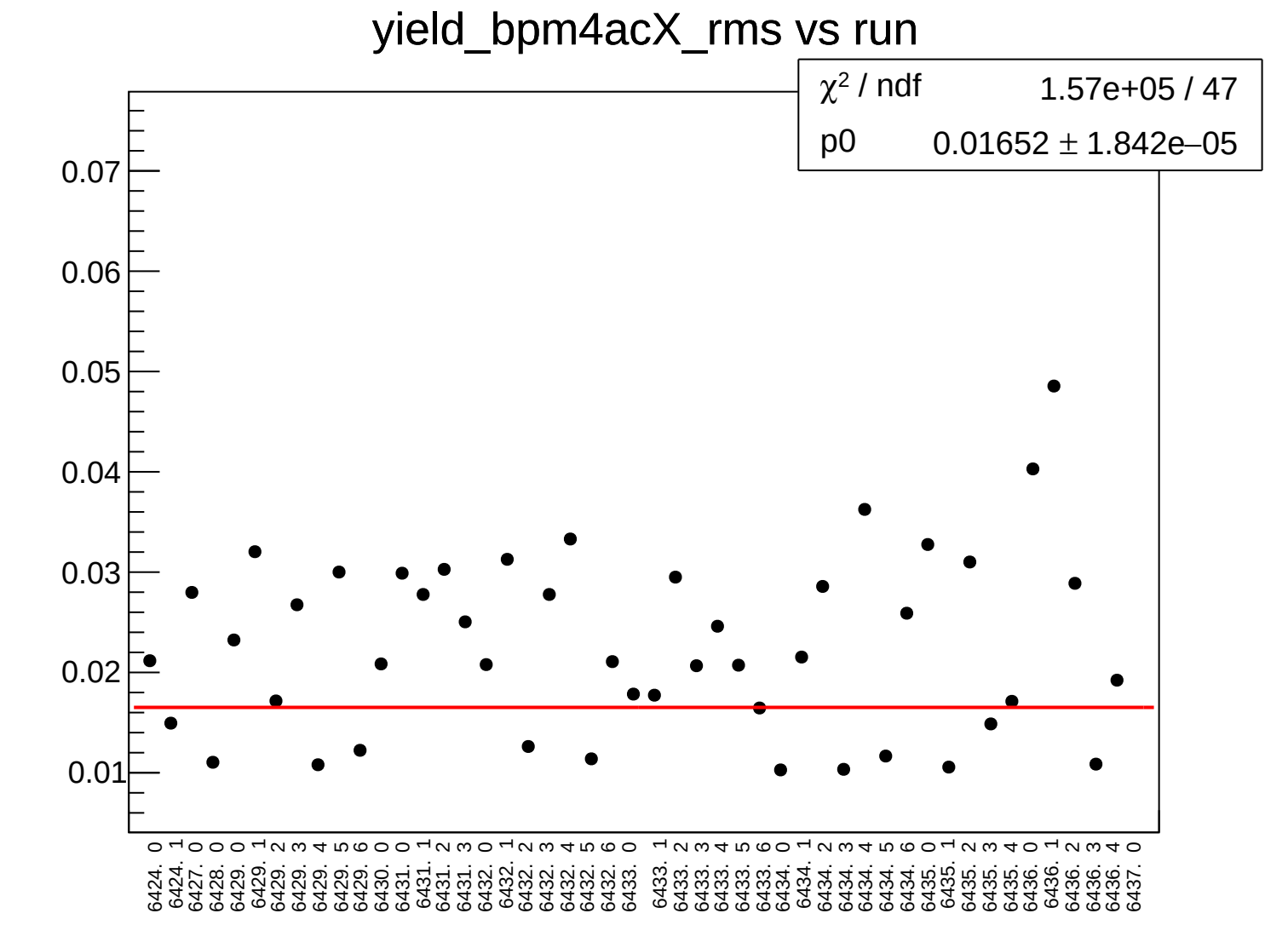

yield_bpm4eX_rms vs run
χ² / ndf 1.604e+05 / 47
p0 0.01613 ± 1.803e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

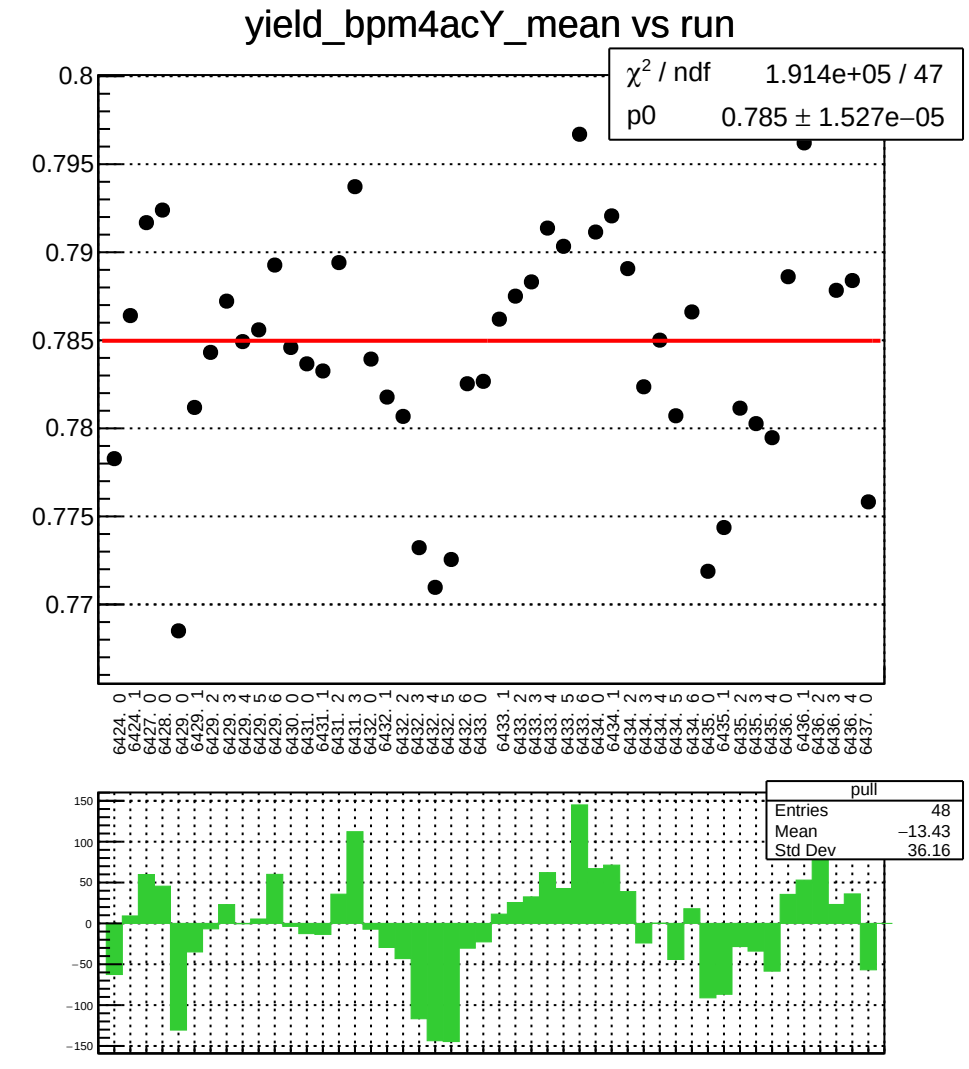

yield_bpm4eY_mean vs run
χ² / ndf 9.148e+04 / 47
p0 0.3362 ± 1.456e−05
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 65.32
Std Dev 39.95
100
50
0
−50
−100

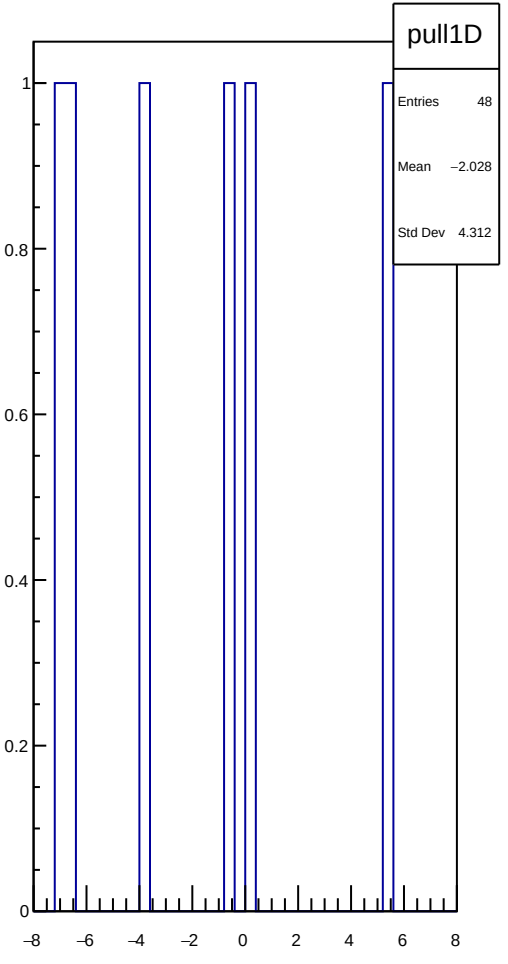

pull1D
Entries 48
Mean −4.563
Std Dev 3.684
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

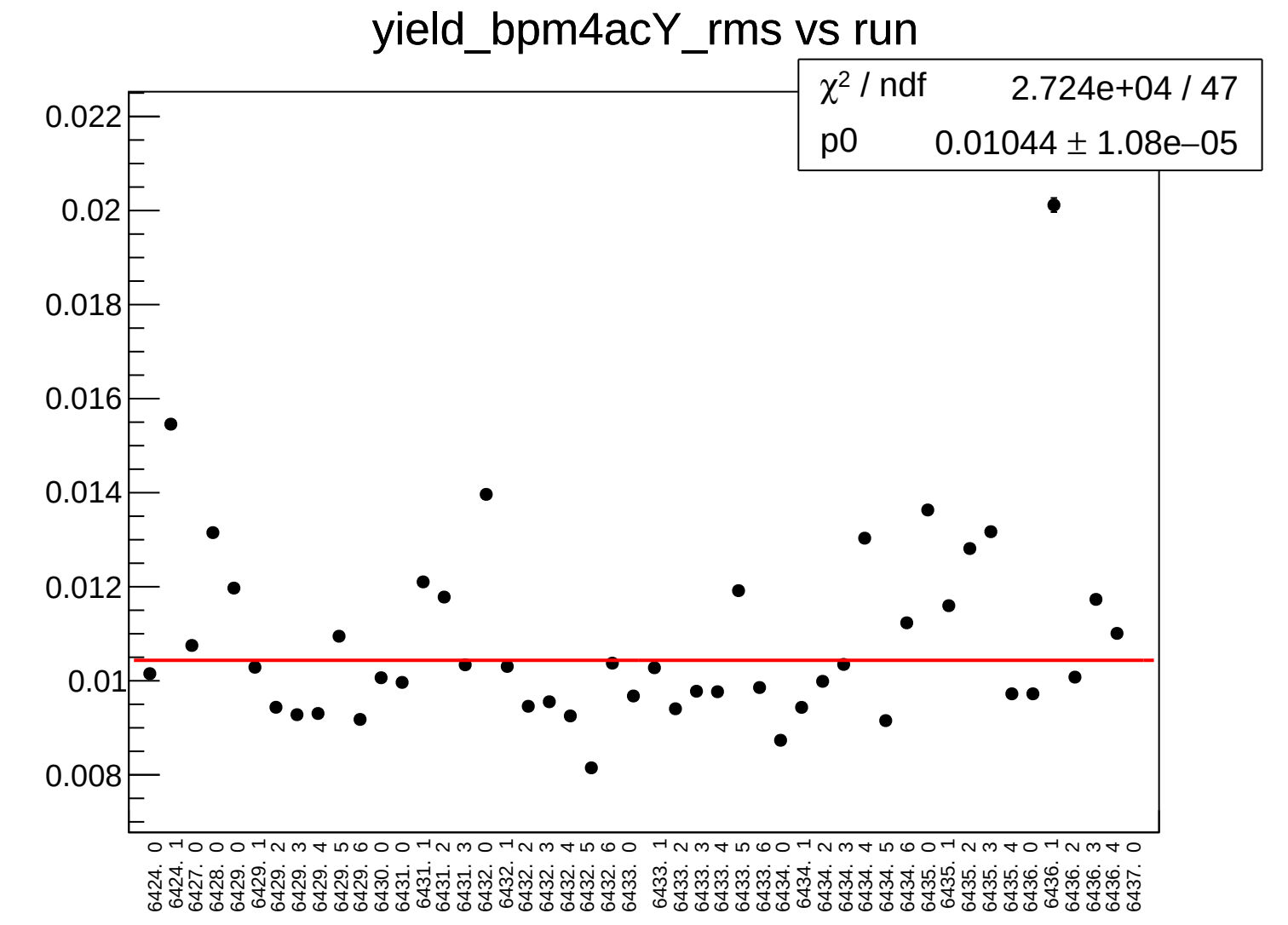

yield_bpm4eY_rms vs run
χ² / ndf 7.551e+04 / 47
p0 0.009685 ± 1.029e−05
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

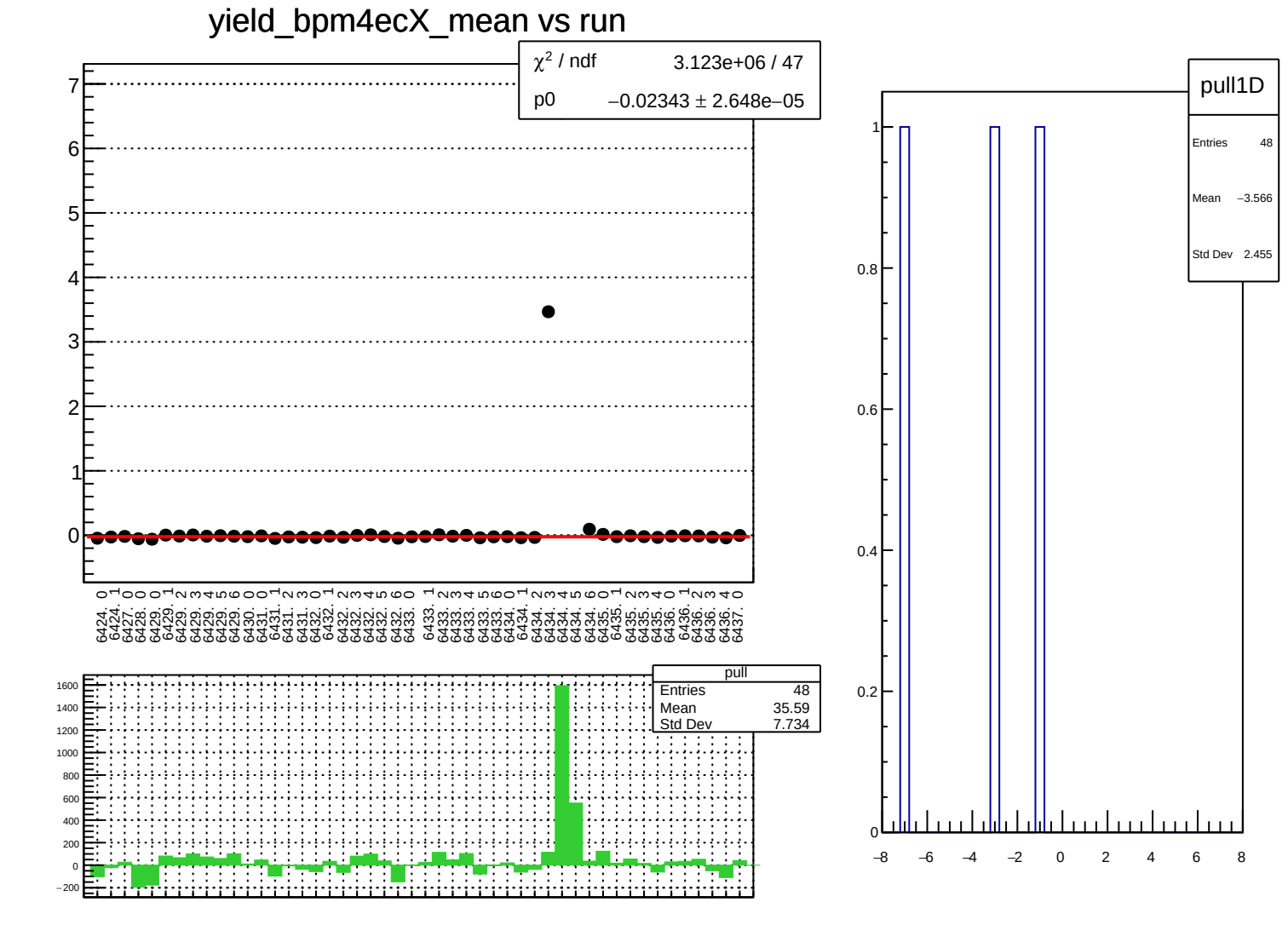

yield_bpm4acX_mean vs run
χ² / ndf 2.772e+05 / 47
p0 −0.7738 ± 2.605e−05
−0.74
−0.75
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 17.12
Std Dev 13.48
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 48
Mean −1.976
Std Dev 4.642
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

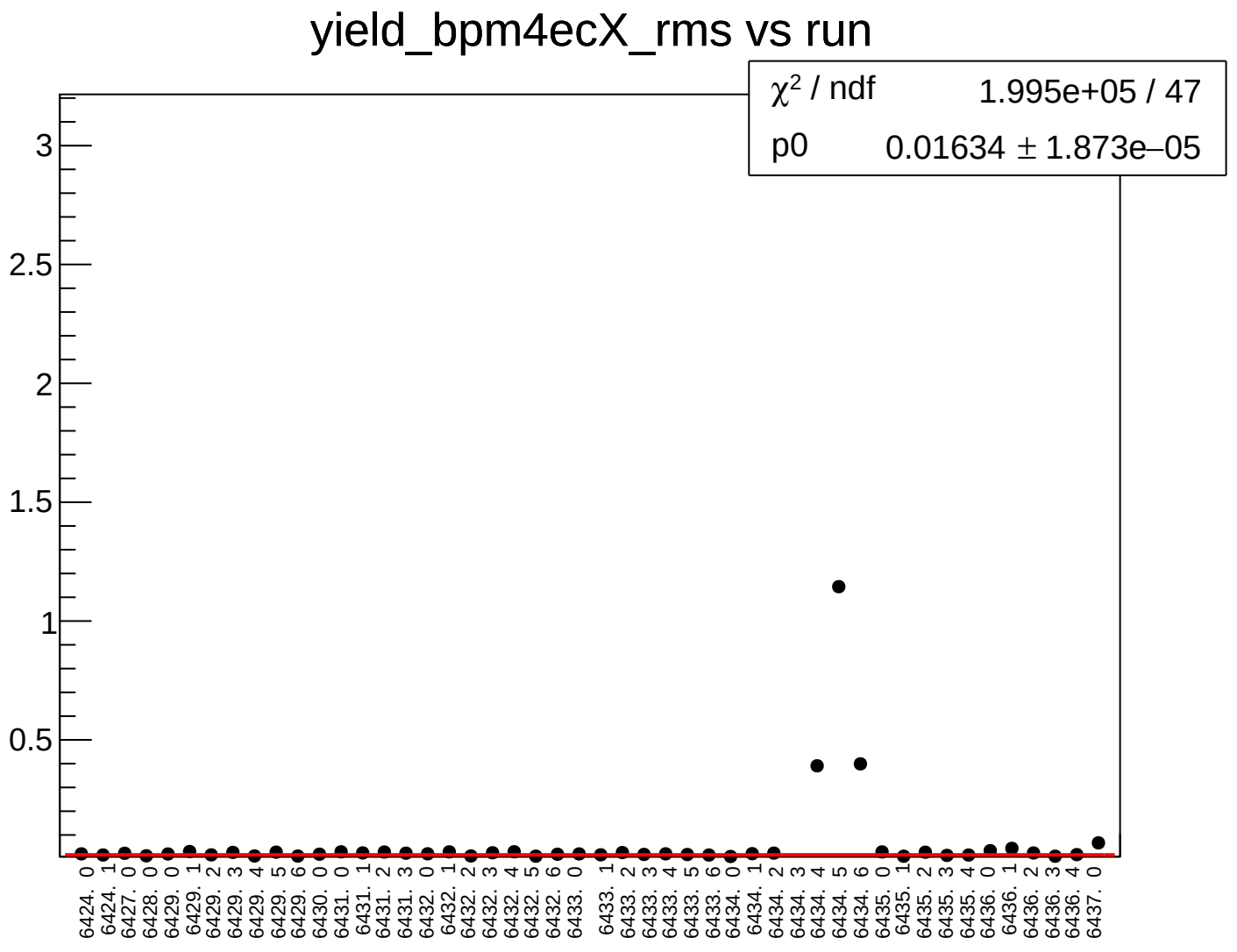

yield_bpm4acX_rms vs run
χ² / ndf 1.57e+05 / 47
p0 0.01652 ± 1.842e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

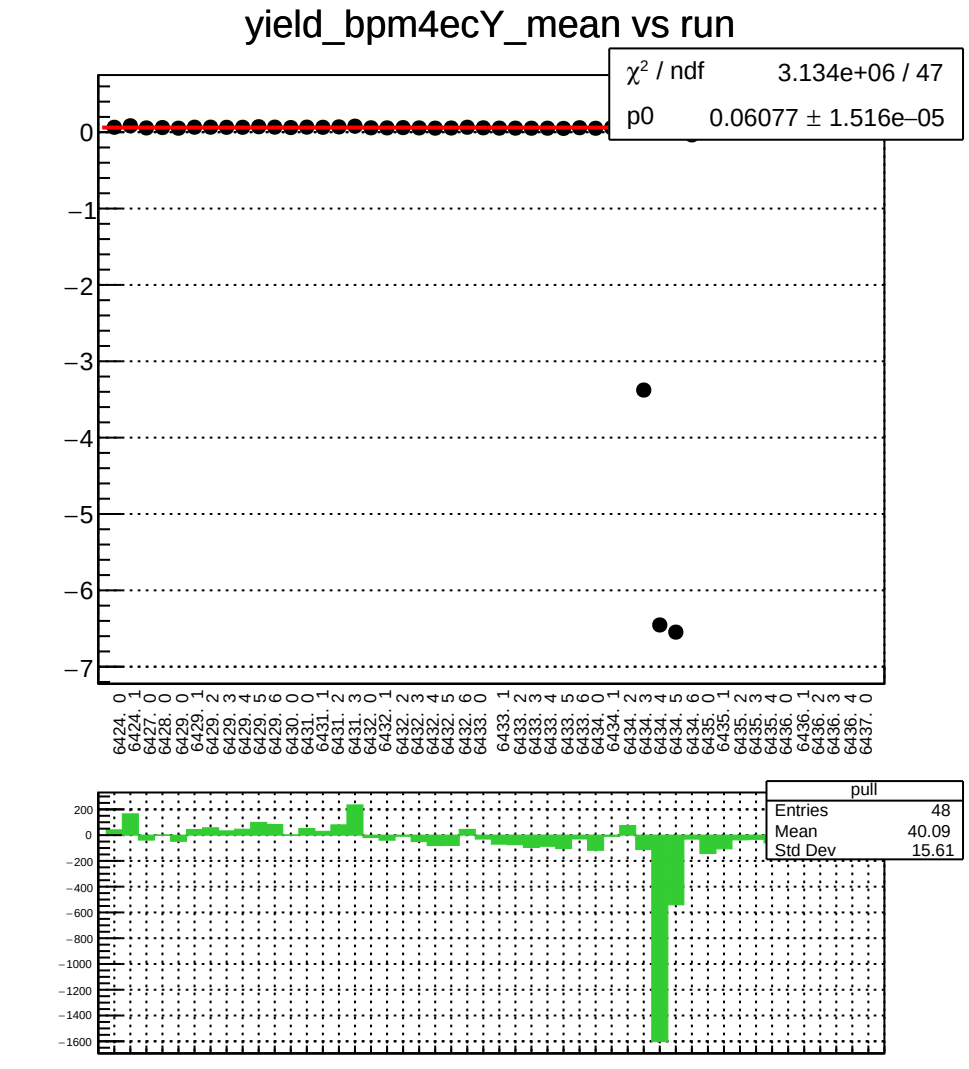

yield_bpm4acY_mean vs run
χ² / ndf 1.914e+05 / 47
p0 0.785 ± 1.527e−05
pull
Entries 48
Mean −13.43
Std Dev 36.16

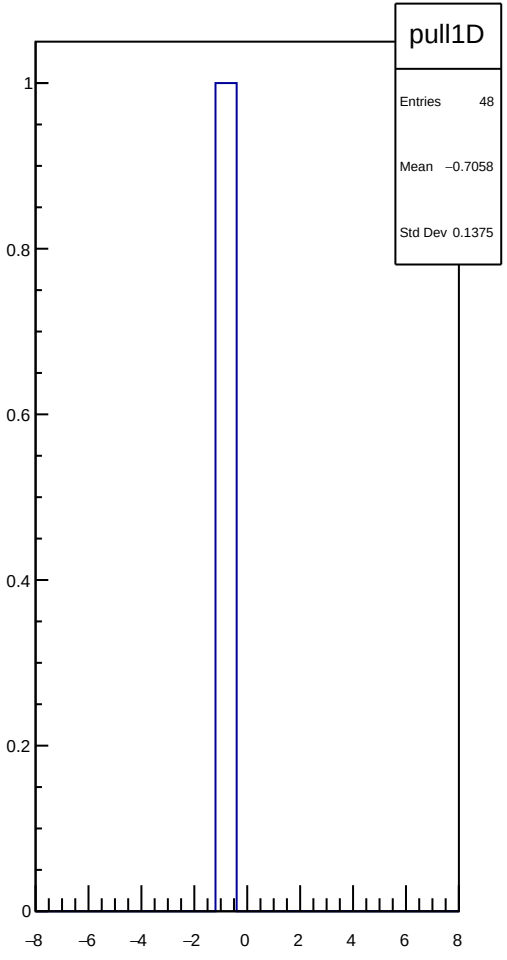

pull1D
Entries 48
Mean −2.028
Std Dev 4.312

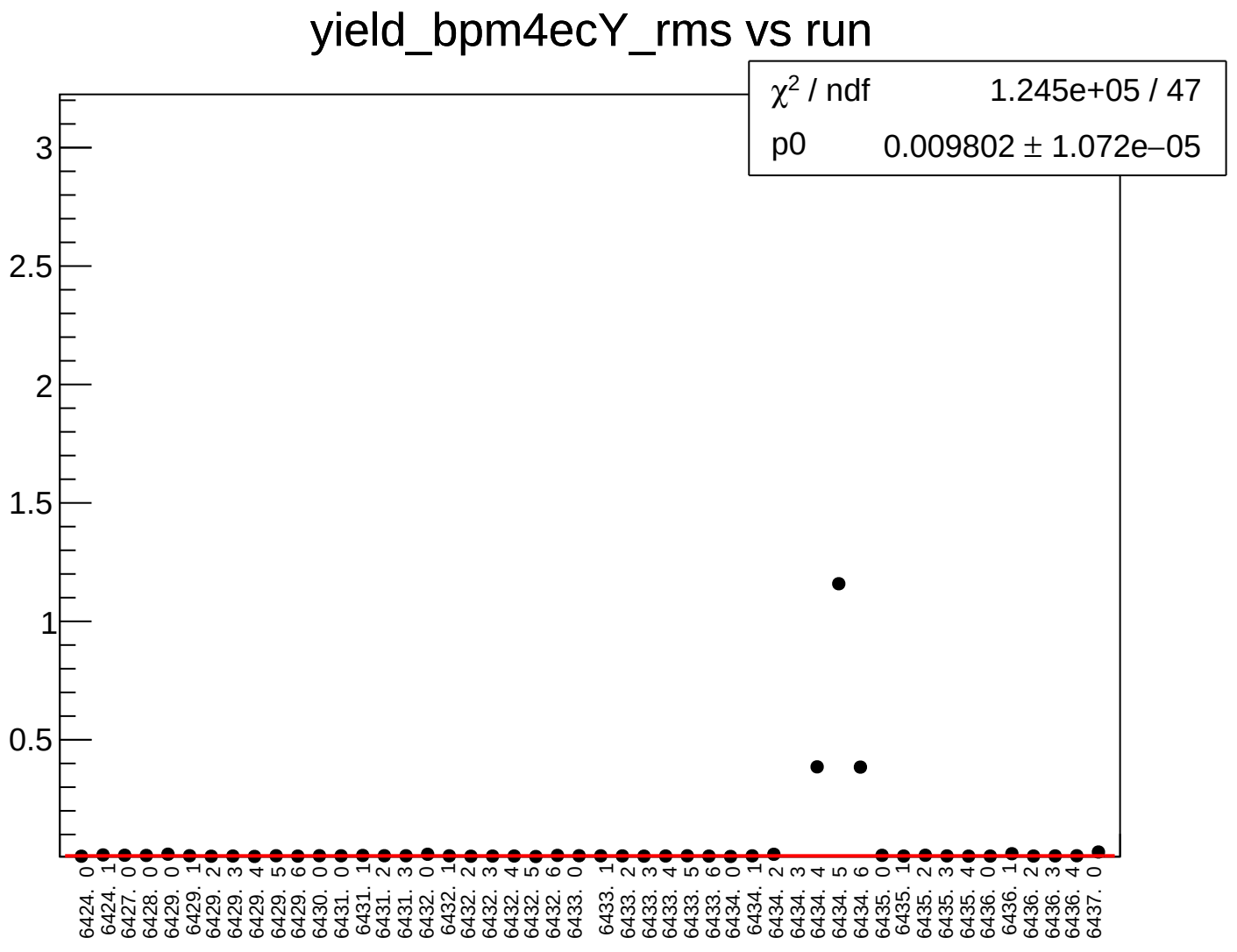

yield_bpm4acY_rms vs run
χ² / ndf 2.724e+04 / 47
p0 0.01044 ± 1.08e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

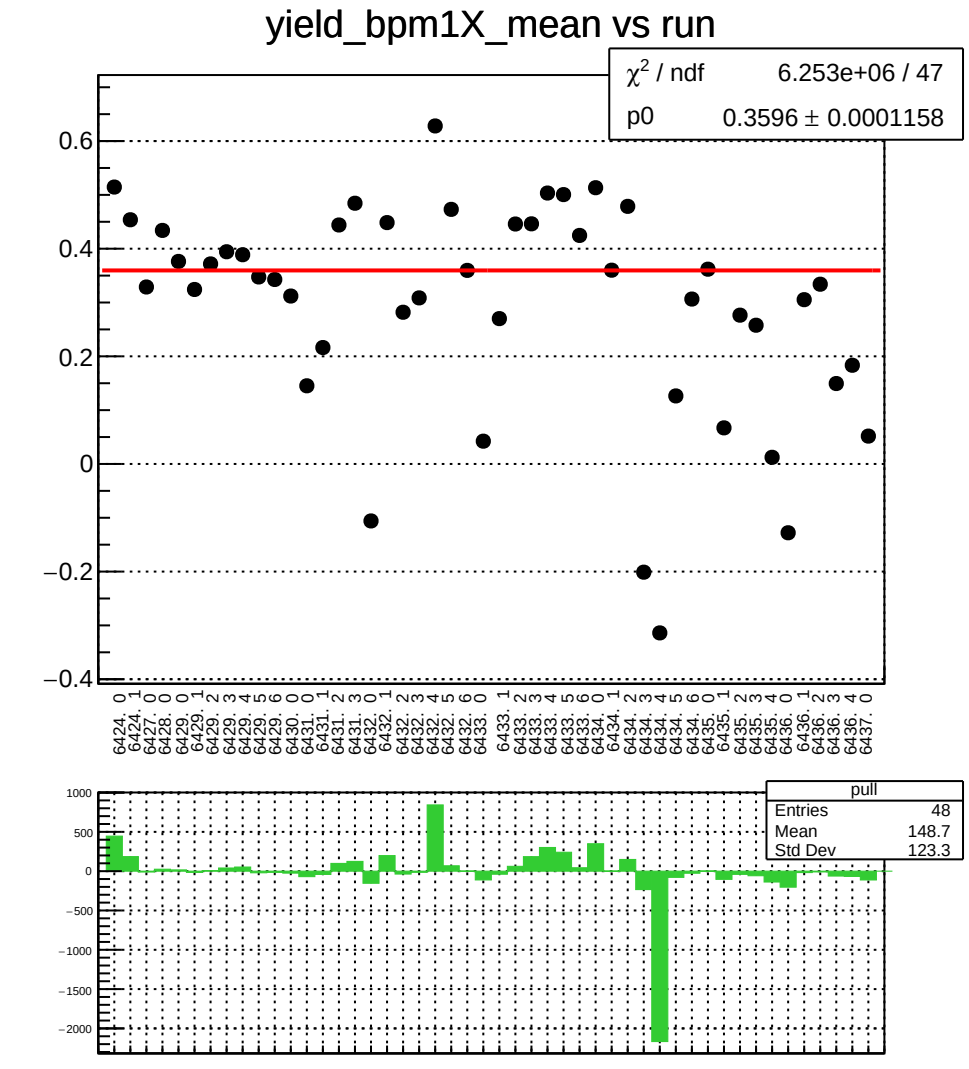

yield_bpm4ecX_mean vs run
χ² / ndf 3.123e+06 / 47
p0 −0.02343 ± 2.648e−05
pull
Entries 48
Mean 35.59
Std Dev 7.734
pull1D
Entries 48
Mean −3.566
Std Dev 2.455

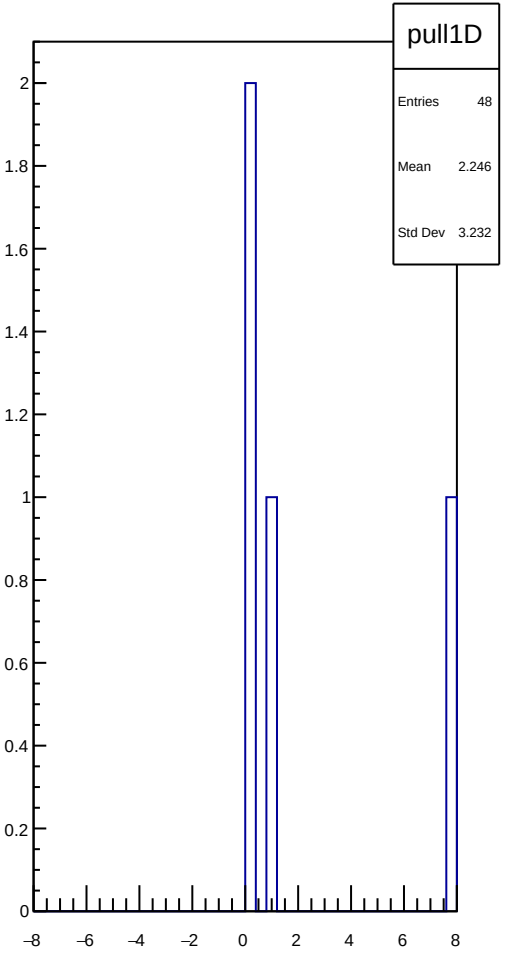

yield_bpm4ecX_rms vs run
χ² / ndf 1.995e+05 / 47
p0 0.01634 ± 1.873e–05
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

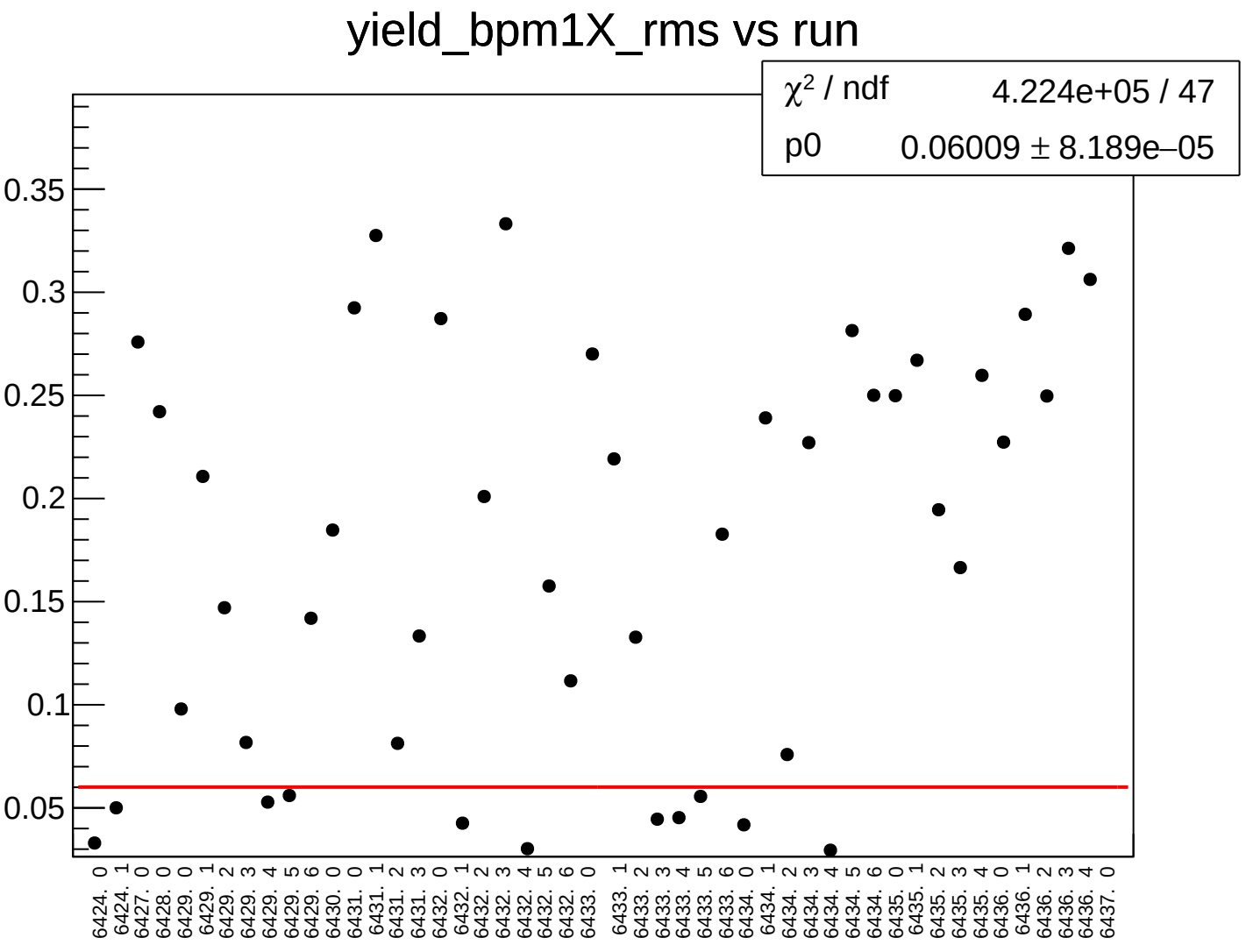

yield_bpm4ecY_mean vs run
χ² / ndf 3.134e+06 / 47
p0 0.06077 ± 1.516e−05
pull
Entries 48
Mean 40.09
Std Dev 15.61


pull1D
Entries 48
Mean −0.7058
Std Dev 0.1375


yield_bpm4ecY_rms vs run
χ² / ndf 1.245e+05 / 47
p0 0.009802 ± 1.072e−05
3
2.5
2
1.5
1
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_bpm1X_mean vs run
χ² / ndf 6.253e+06 / 47
p0 0.3596 ± 0.0001158
pull
Entries 48
Mean 148.7
Std Dev 123.3


pull1D
Entries 48
Mean 2.246
Std Dev 3.232


yield_bpm1X_rms vs run
χ² / ndf 4.224e+05 / 47
p0 0.06009 ± 8.189e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
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6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
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6435. 3
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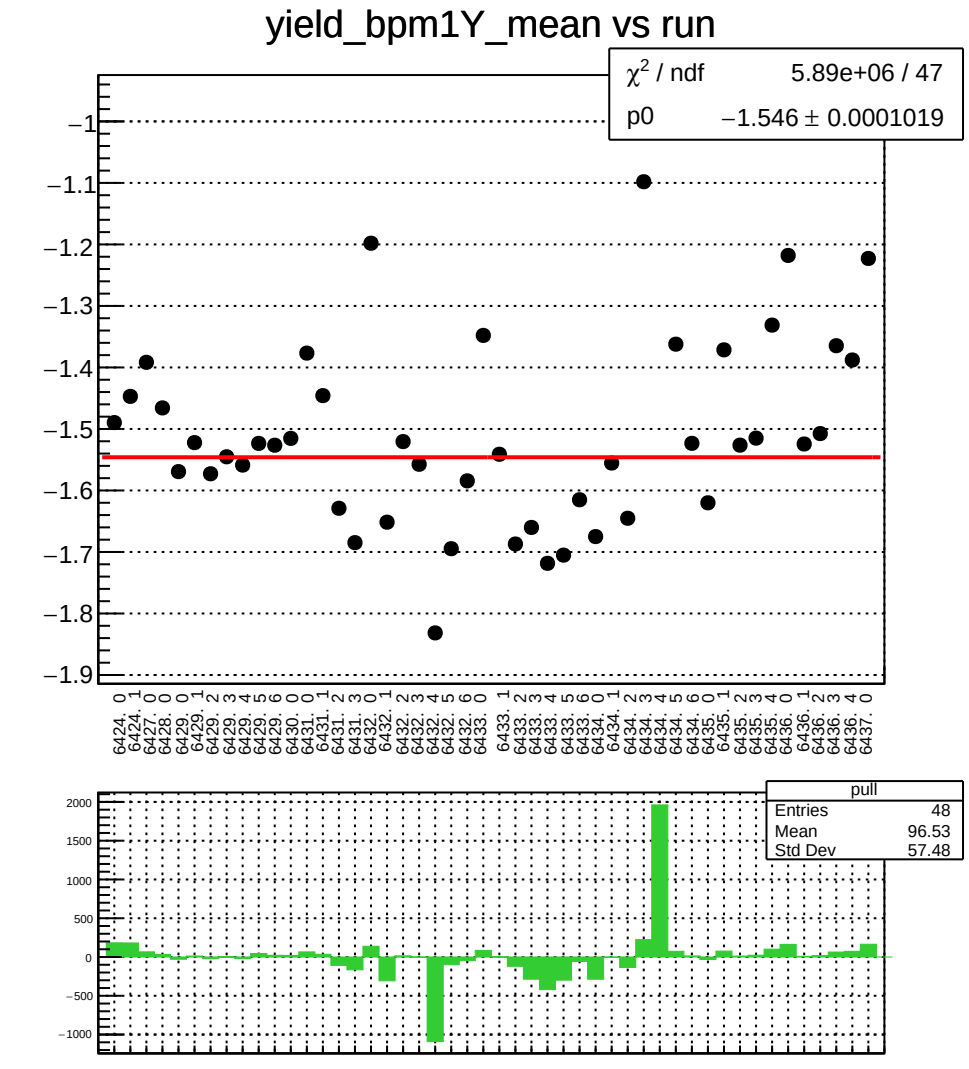
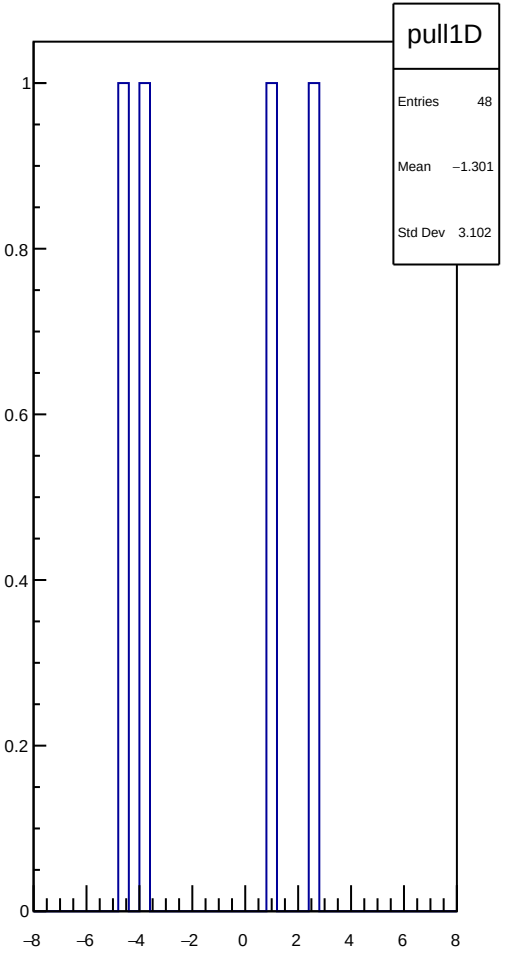
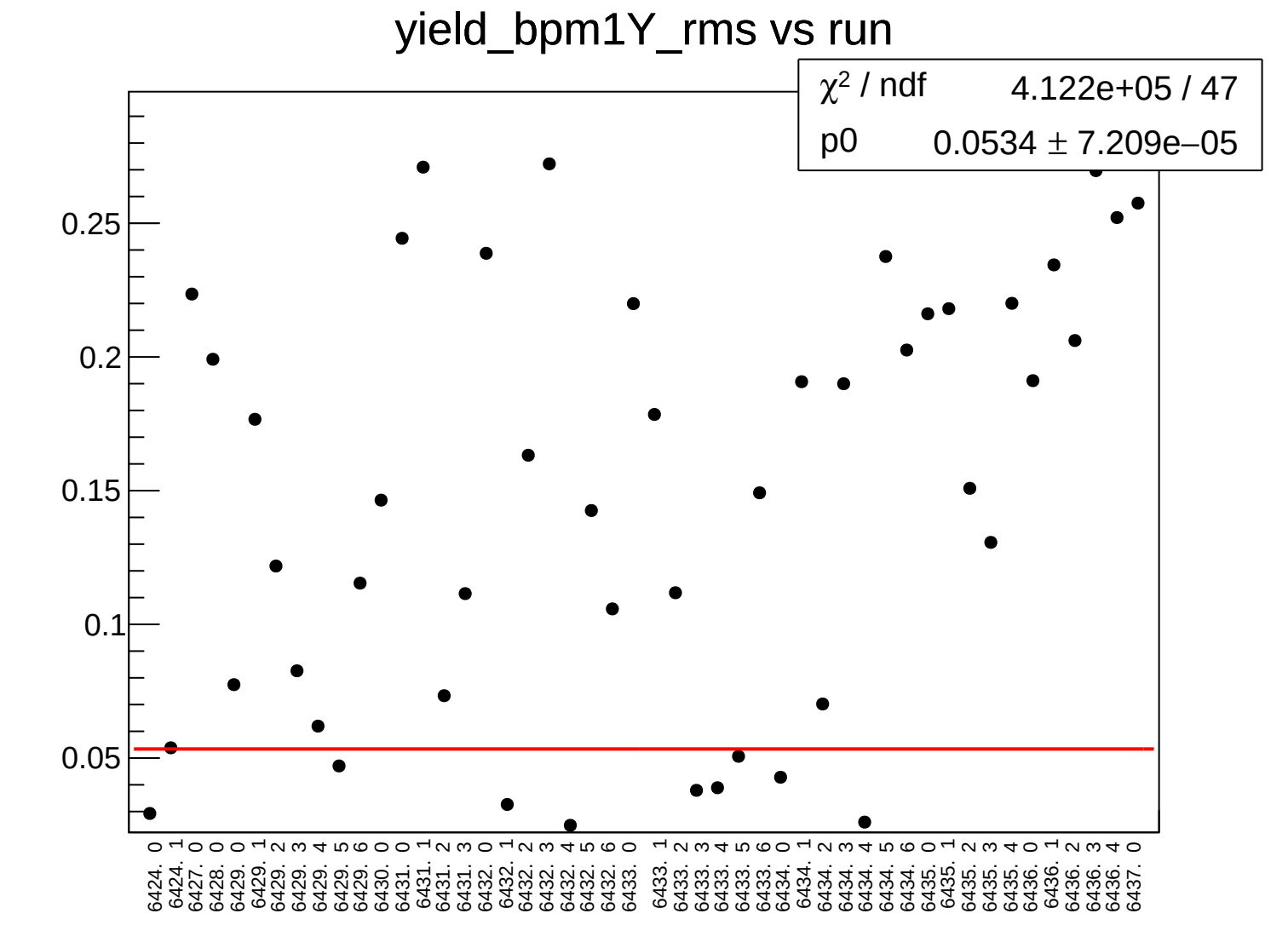
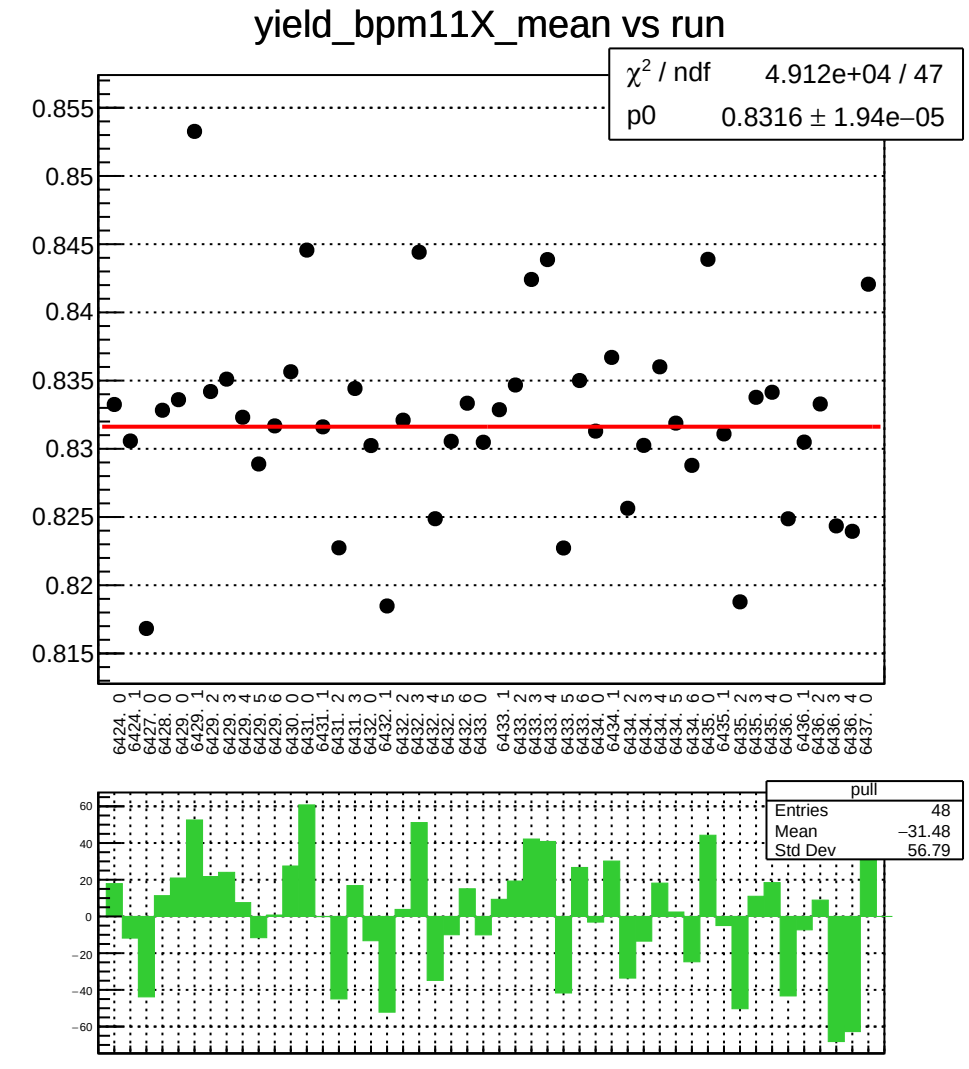
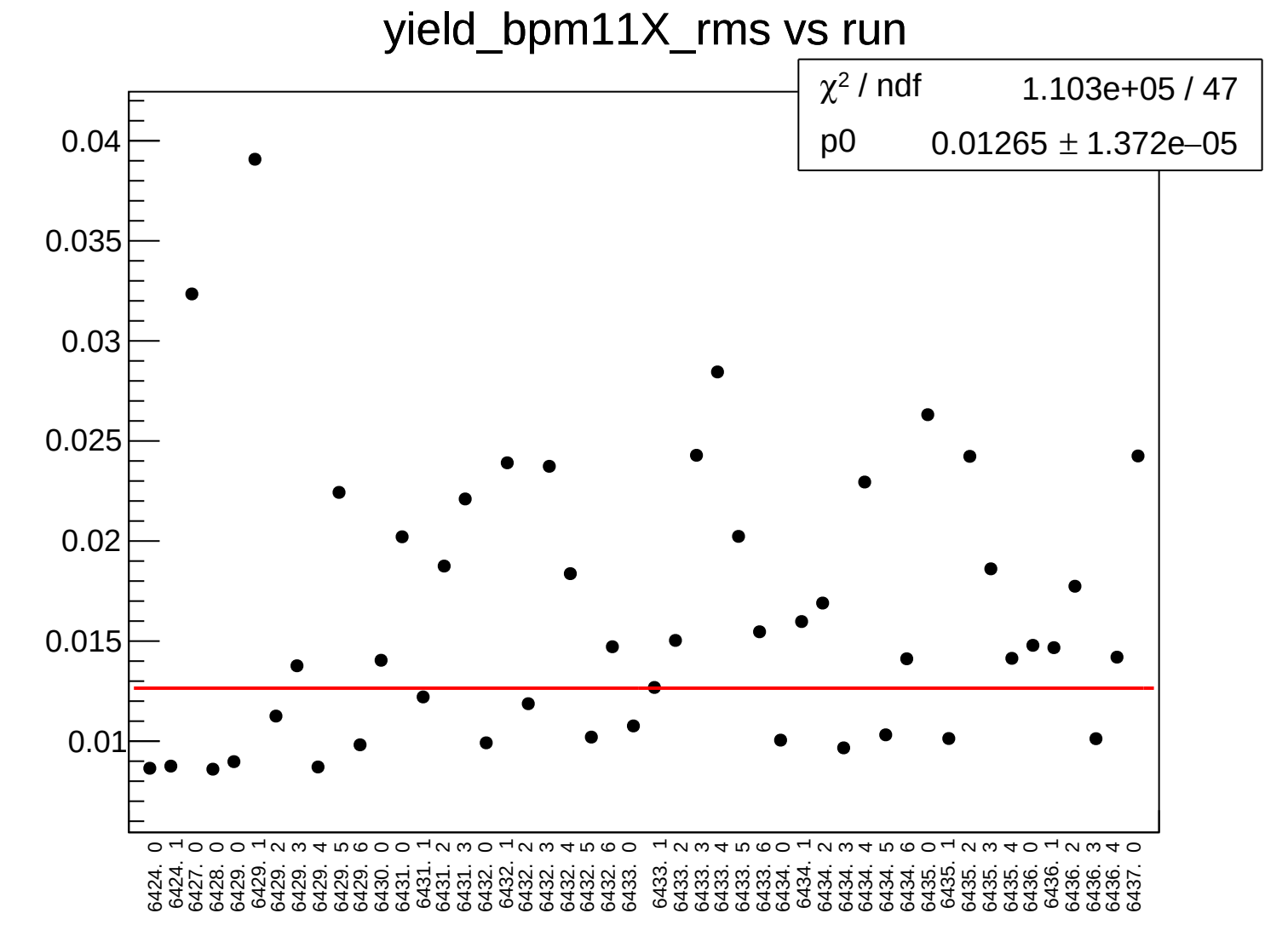
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

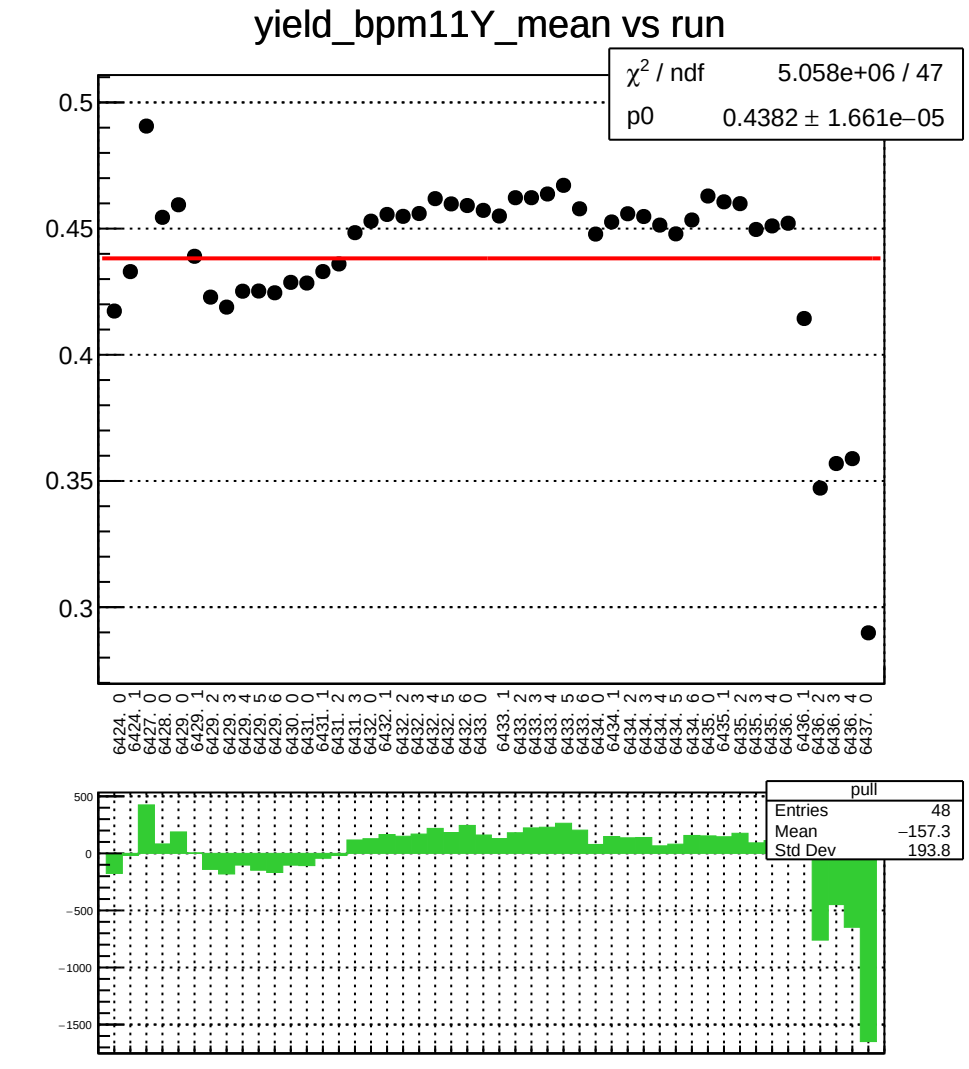

yield_bpm1Y_mean vs run
χ² / ndf 5.89e+06 / 47
p0 −1.546 ± 0.0001019
pull
Entries 48
Mean 96.53
Std Dev 57.48

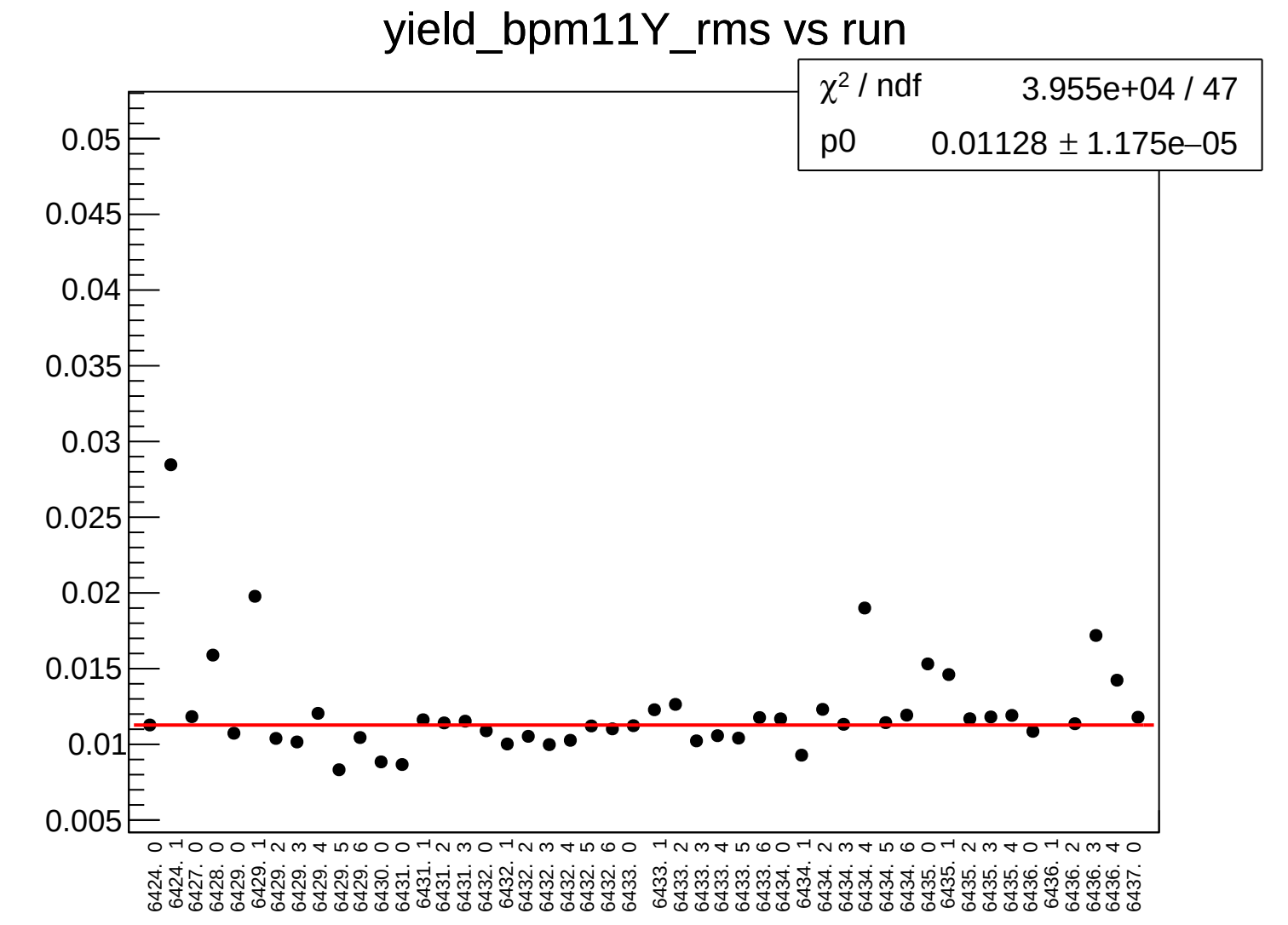

pull1D
Entries 48
Mean −1.301
Std Dev 3.102

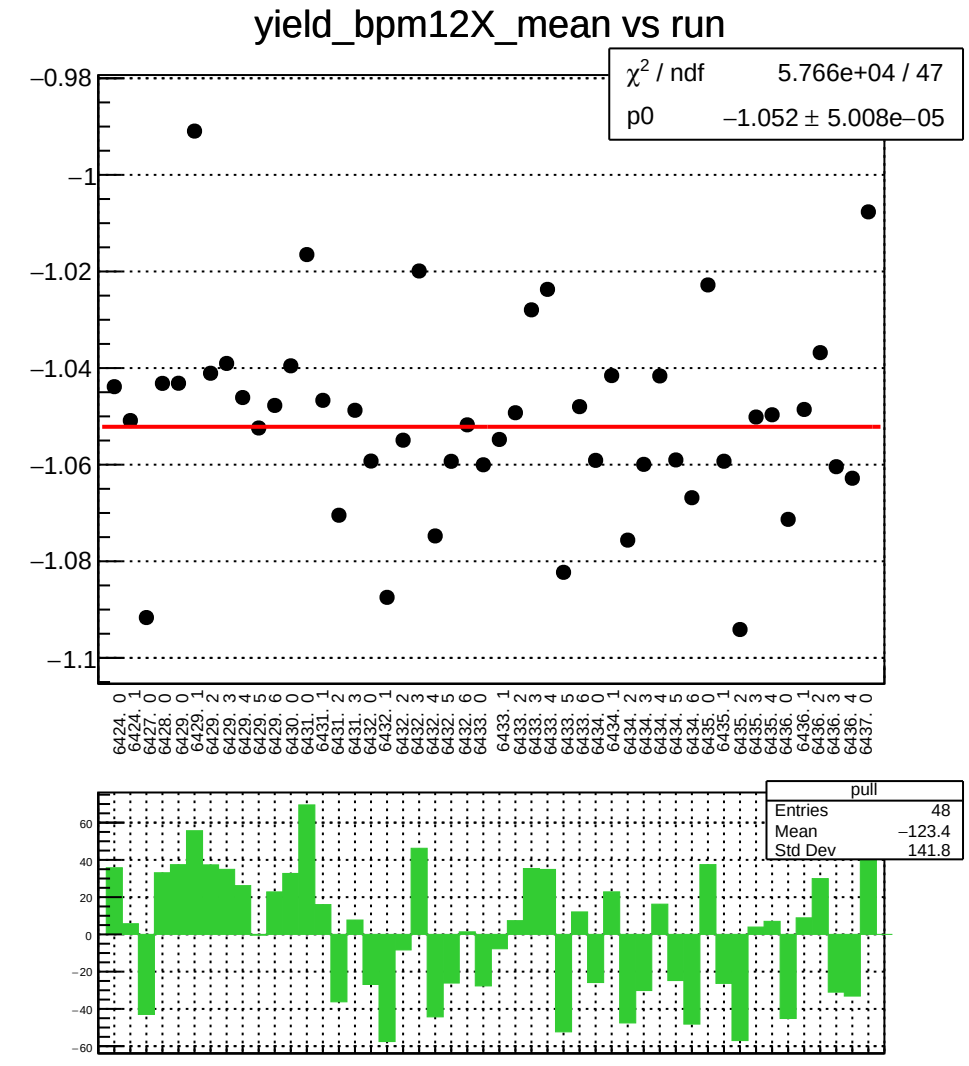

yield_bpm1Y_rms vs run
χ² / ndf 4.122e+05 / 47
p0 0.0534 ± 7.209e−05
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

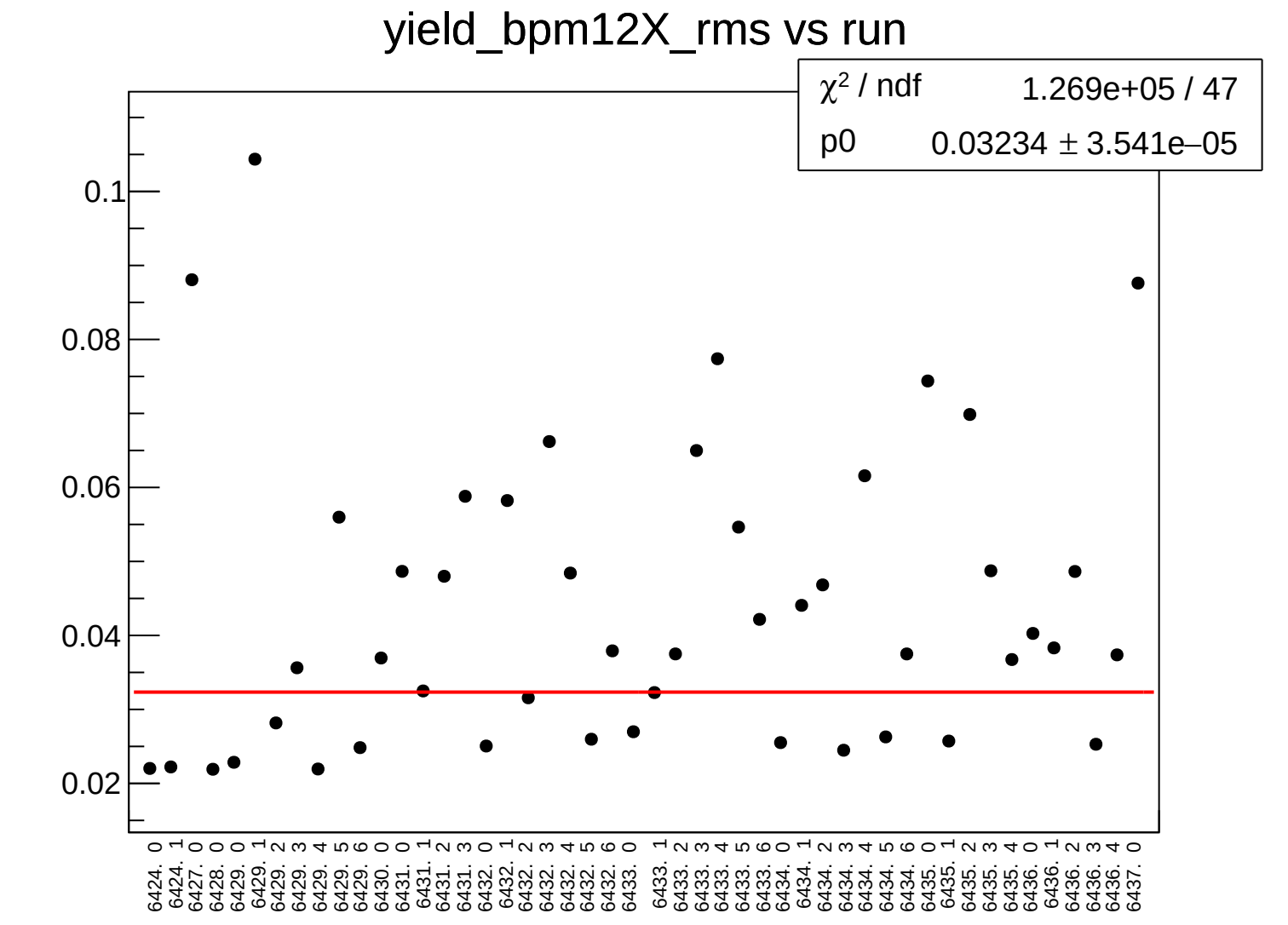

yield_bpm11X_mean vs run
χ² / ndf 4.912e+04 / 47
p0 0.8316 ± 1.94e−05
0.855
0.85
0.845
0.84
0.835
0.83
0.825
0.82
0.815
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −31.48
Std Dev 56.79
60
40
20
0
−20
−40
−60
pull1D
Entries 48
Mean −0.108
Std Dev 4.537
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

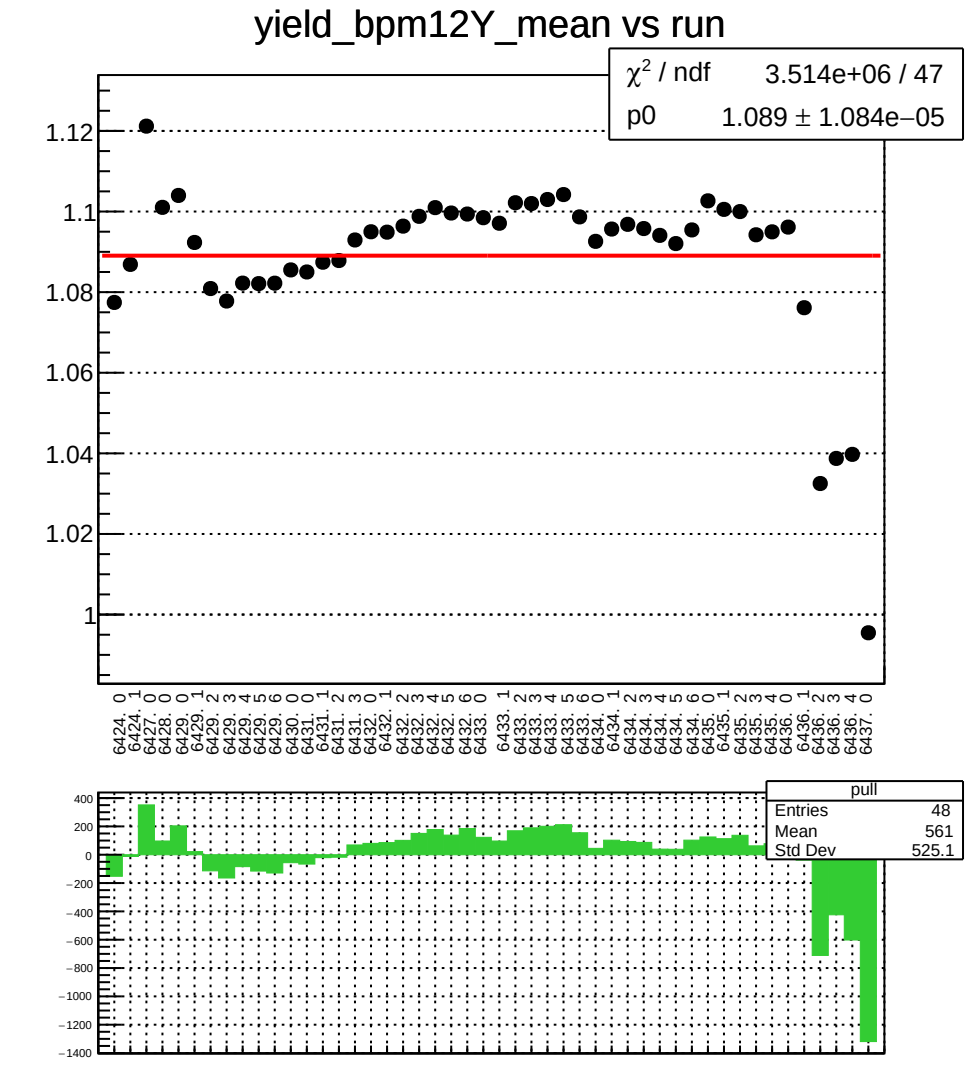

yield_bpm11X_rms vs run
χ² / ndf 1.103e+05 / 47
p0 0.01265 ± 1.372e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

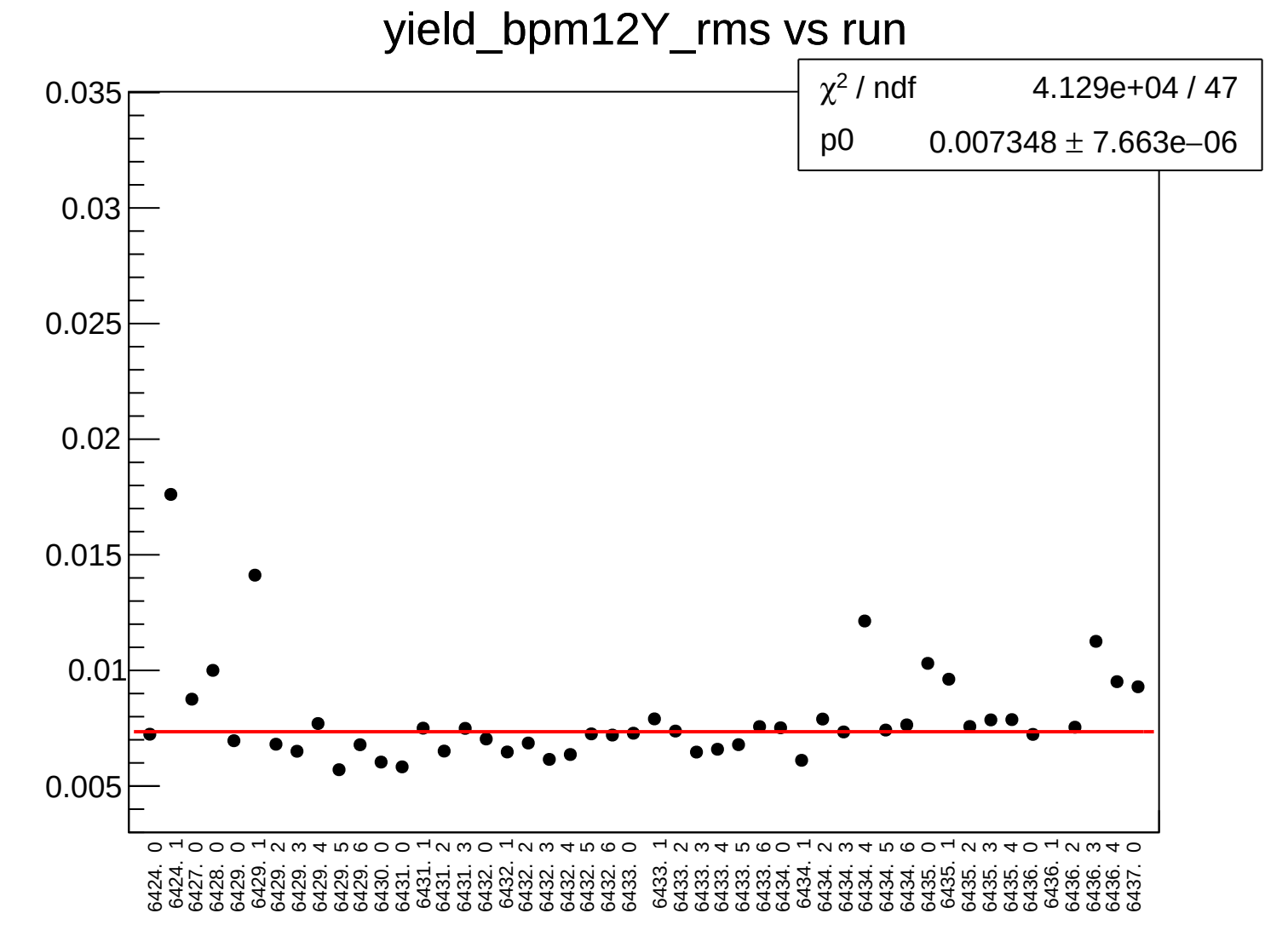

yield_bpm11Y_mean vs run
χ² / ndf 5.058e+06 / 47
p0 0.4382 ± 1.661e−05
0.5
0.45
0.4
0.35
0.3
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
500
0
−500
−1000
−1500
pull
Entries 48
Mean −157.3
Std Dev 193.8
pull1D
Entries 48
Mean 3.948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

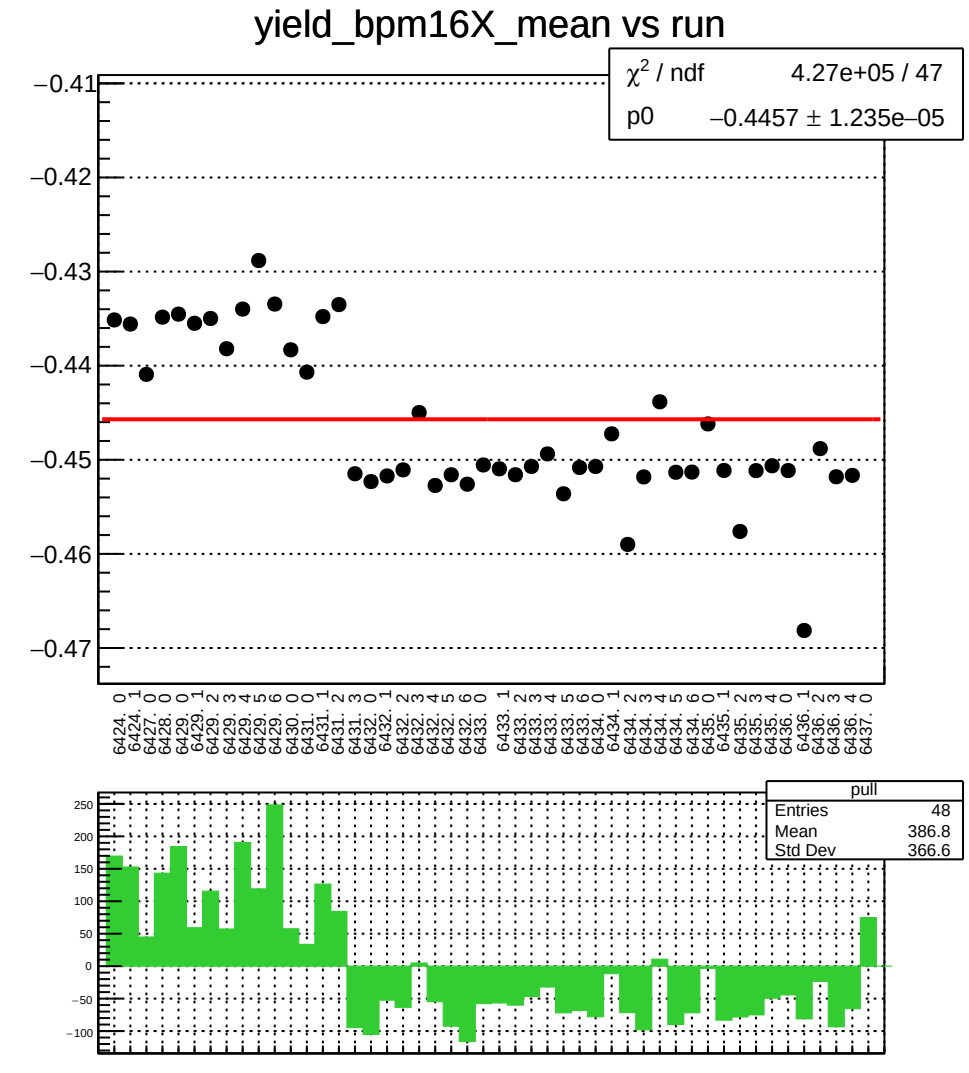

yield_bpm11Y_rms vs run
χ² / ndf 3.955e+04 / 47
p0 0.01128 ± 1.175e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

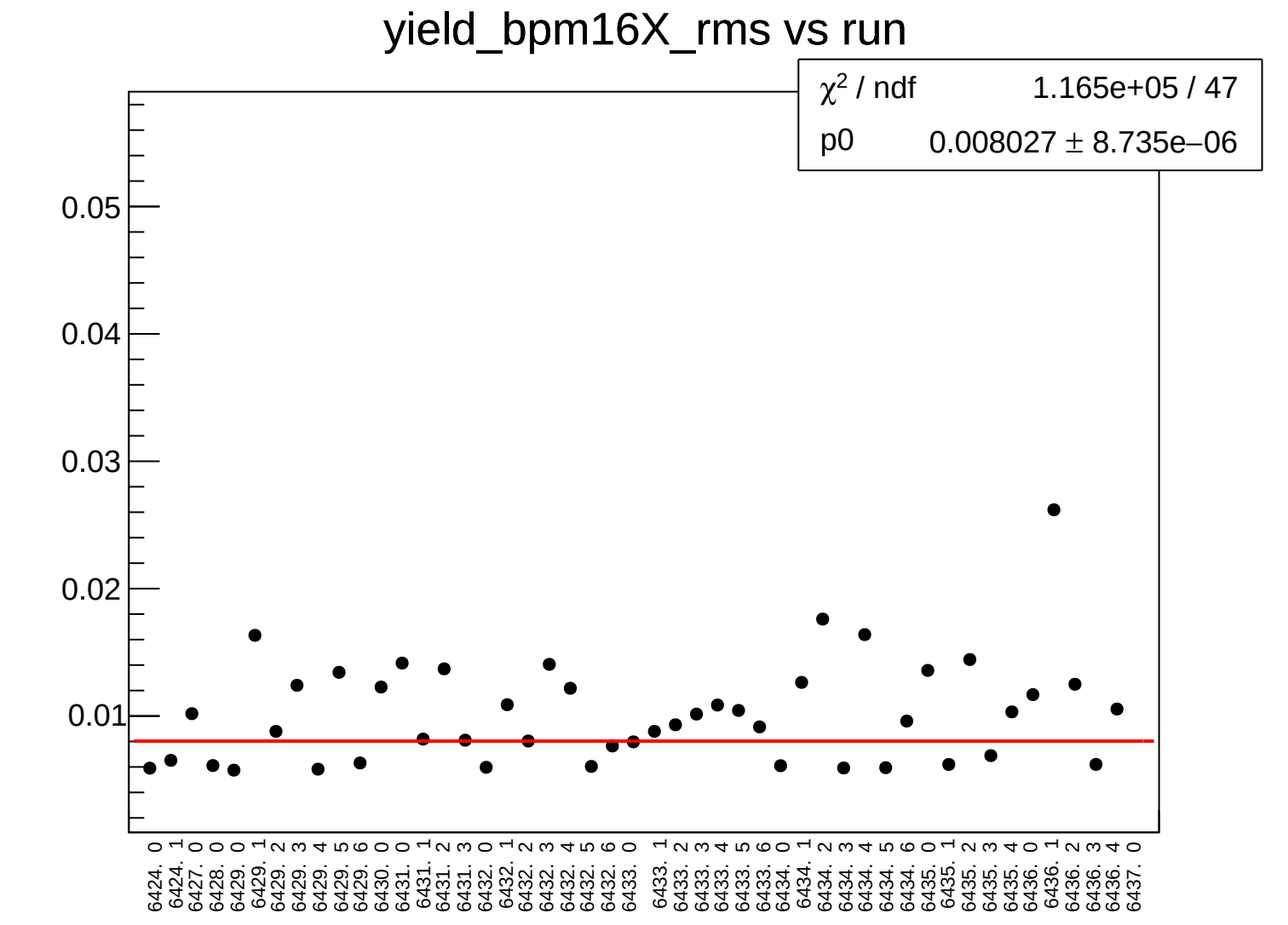

yield_bpm12X_mean vs run
χ² / ndf 5.766e+04 / 47
p0 −1.052 ± 5.008e−05
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −123.4
Std Dev 141.8
60
40
20
0
−20
−40
−60
pull1D
Entries 48
Mean 3.118
Std Dev 4.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

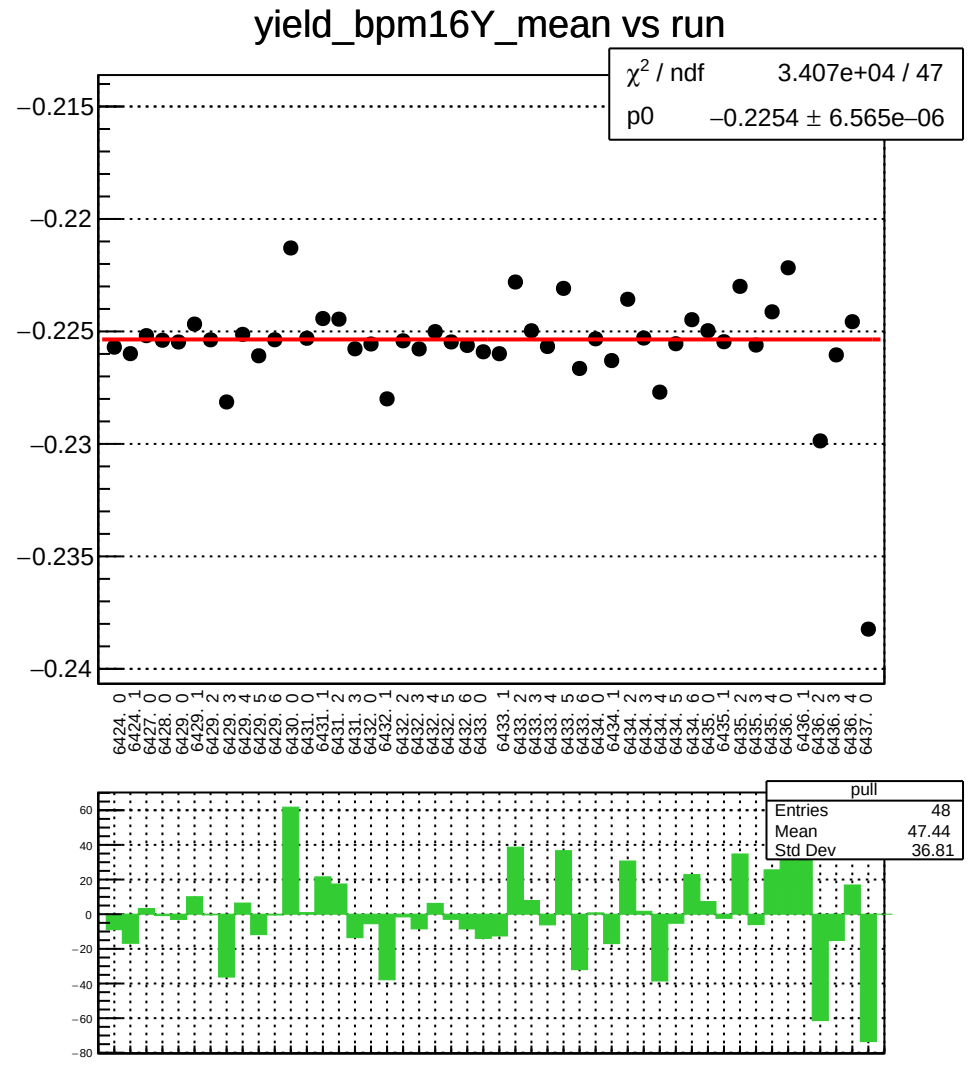

yield_bpm12X_rms vs run
χ² / ndf 1.269e+05 / 47
p0 0.03234 ± 3.541e–05
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

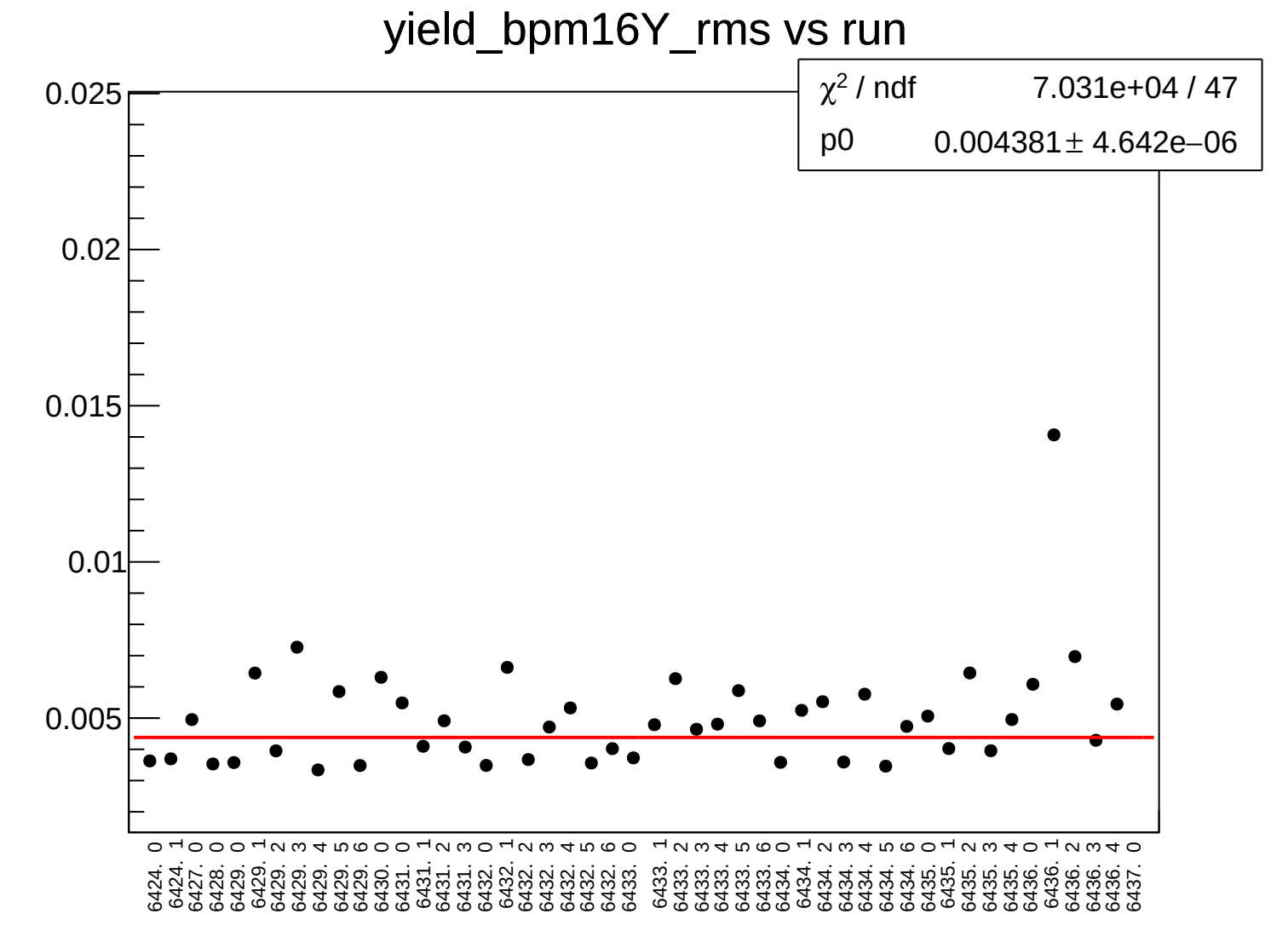

yield_bpm12Y_mean vs run
χ² / ndf 3.514e+06 / 47
p0 1.089 ± 1.084e−05
1.12
1.1
1.08
1.06
1.04
1.02
1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 561
Std Dev 525.1
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

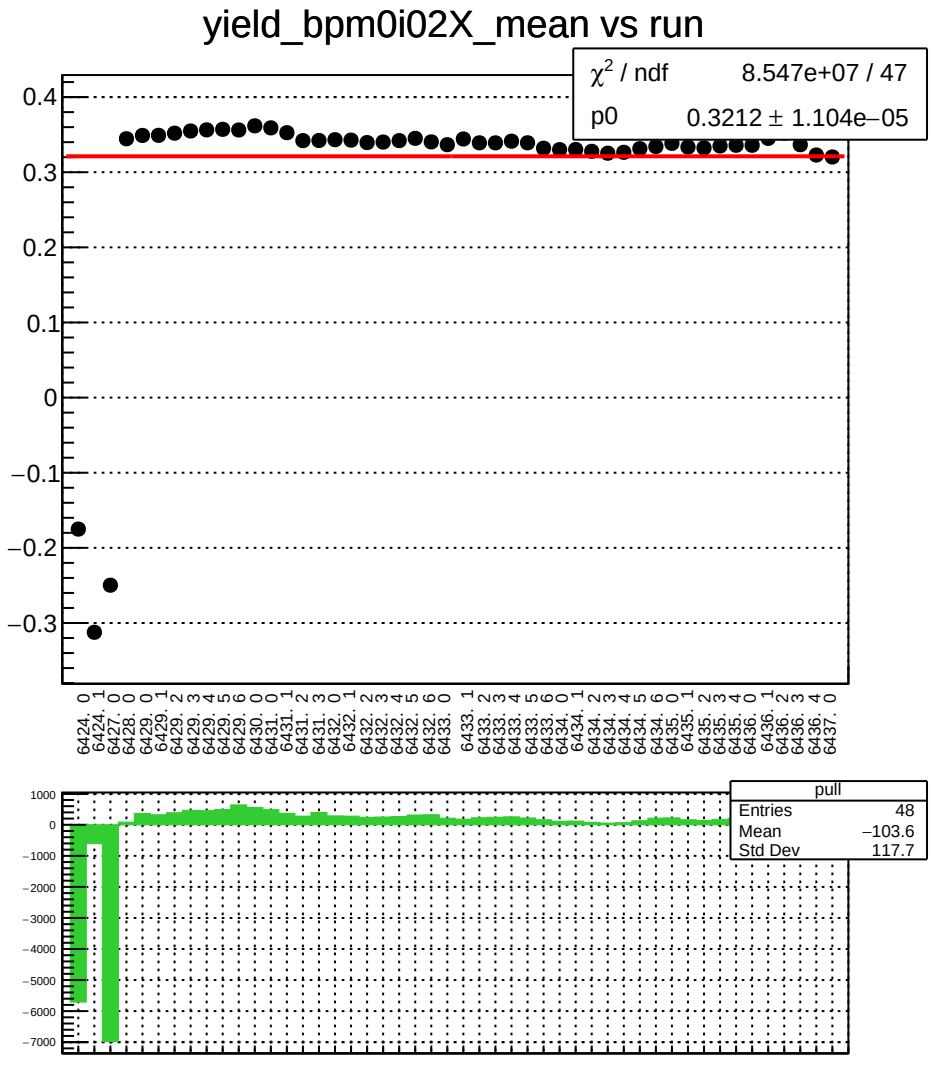

yield_bpm12Y_rms vs run
χ² / ndf 4.129e+04 / 47
p0 0.007348 ± 7.663e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

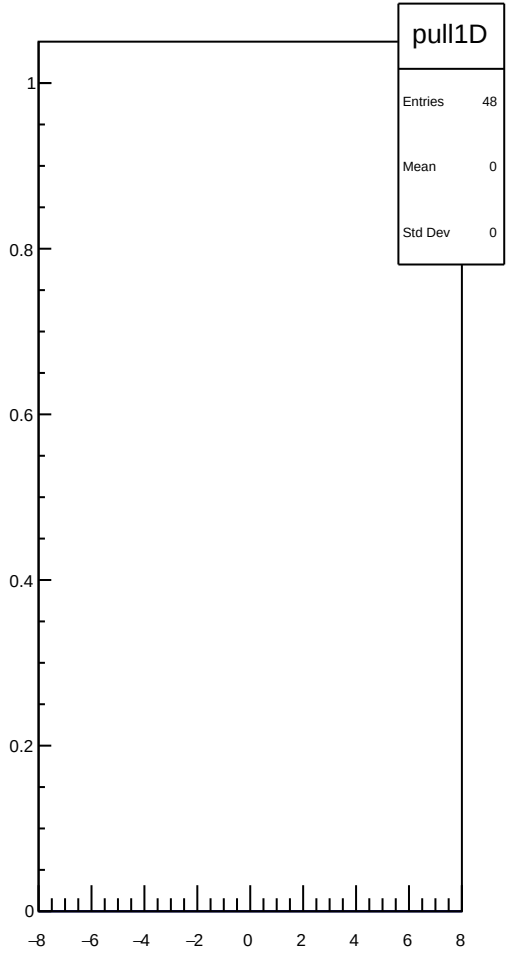

yield_bpm16X_mean vs run
χ² / ndf 4.27e+05 / 47
p0 −0.4457 ± 1.235e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 386.8
Std Dev 366.6
250
200
150
100
50
0
−50
−100
pull1D
Entries 48
Mean 0.698
Std Dev 4.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

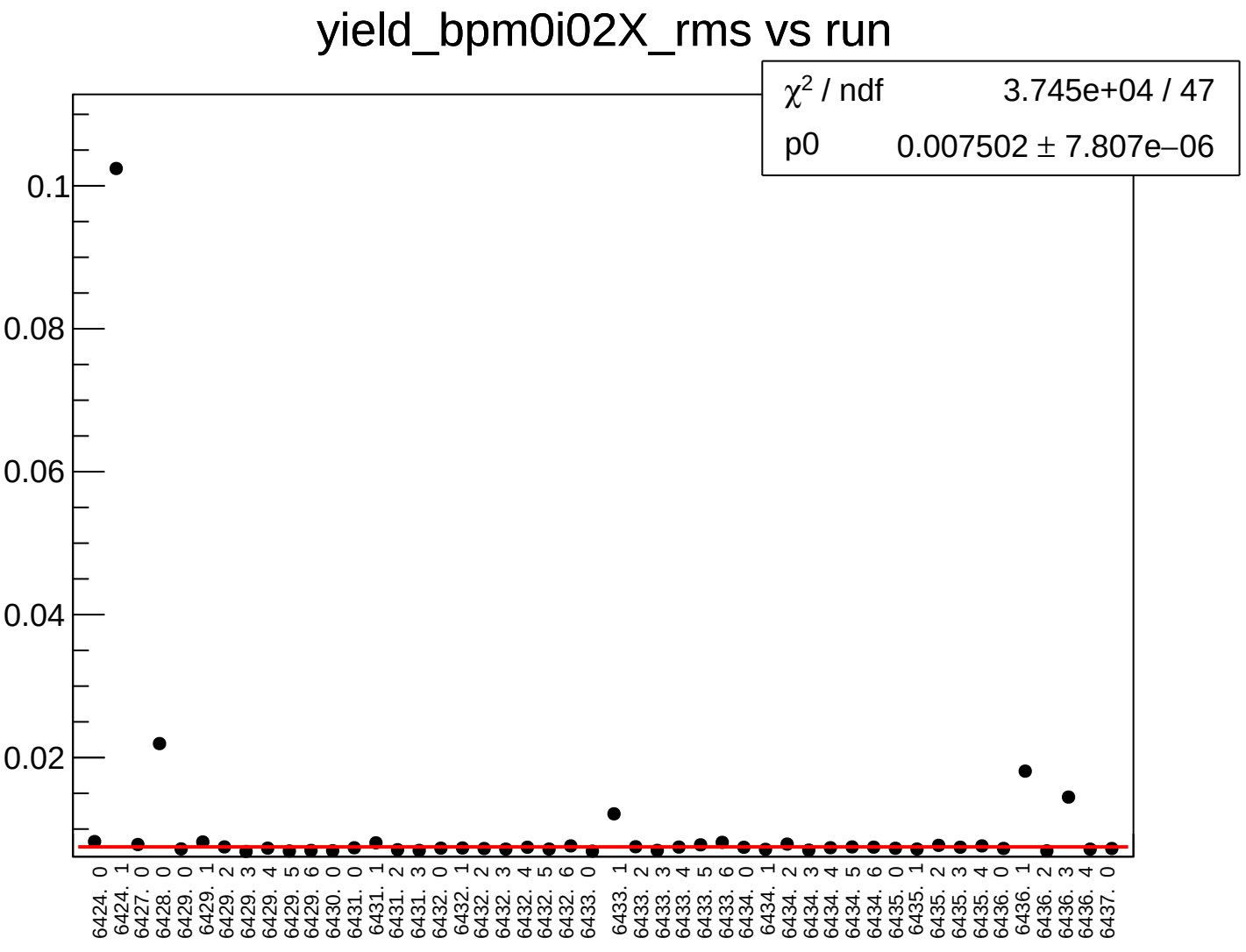

yield_bpm16X_rms vs run
χ² / ndf 1.165e+05 / 47
p0 0.008027 ± 8.735e−06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

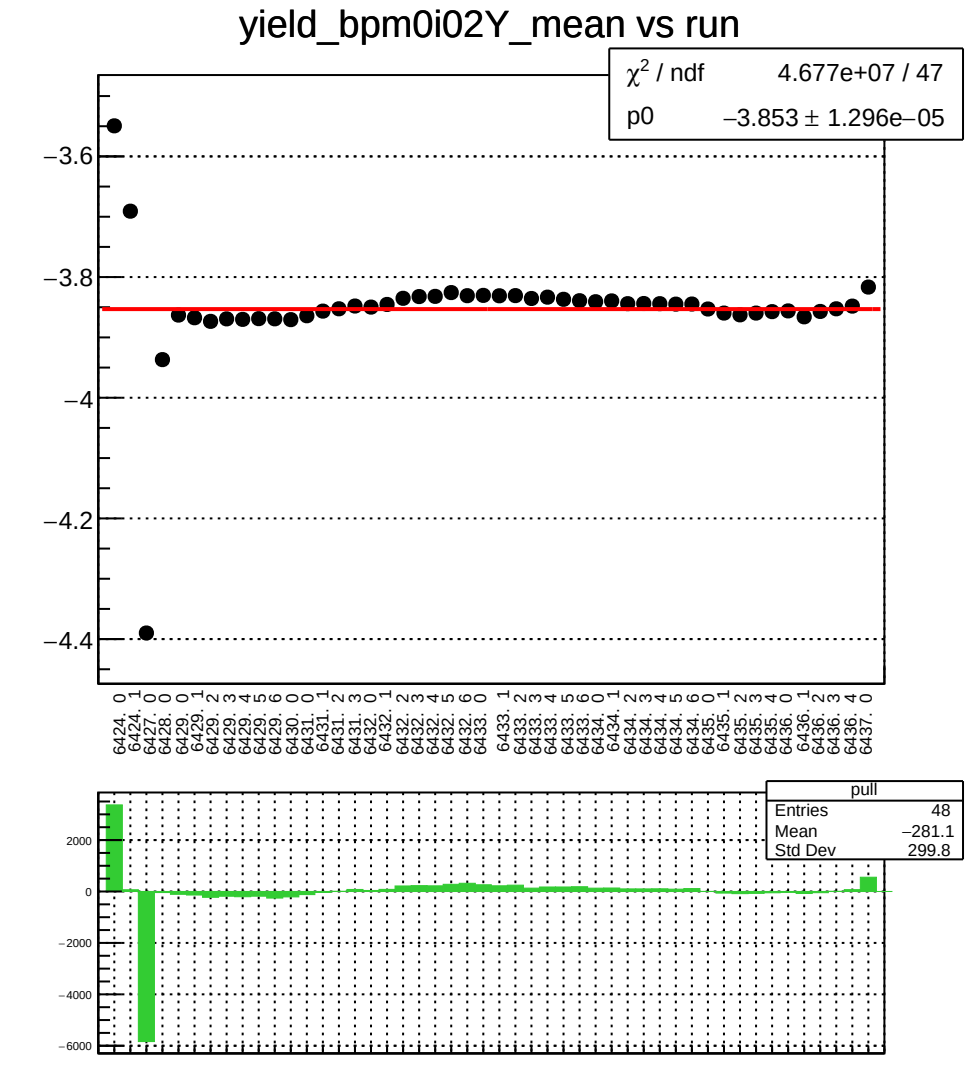

yield_bpm16Y_mean vs run
χ² / ndf 3.407e+04 / 47
p0 −0.2254 ± 6.565e−06
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 47.44
Std Dev 36.81
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 48
Mean 0.004087
Std Dev 4.4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

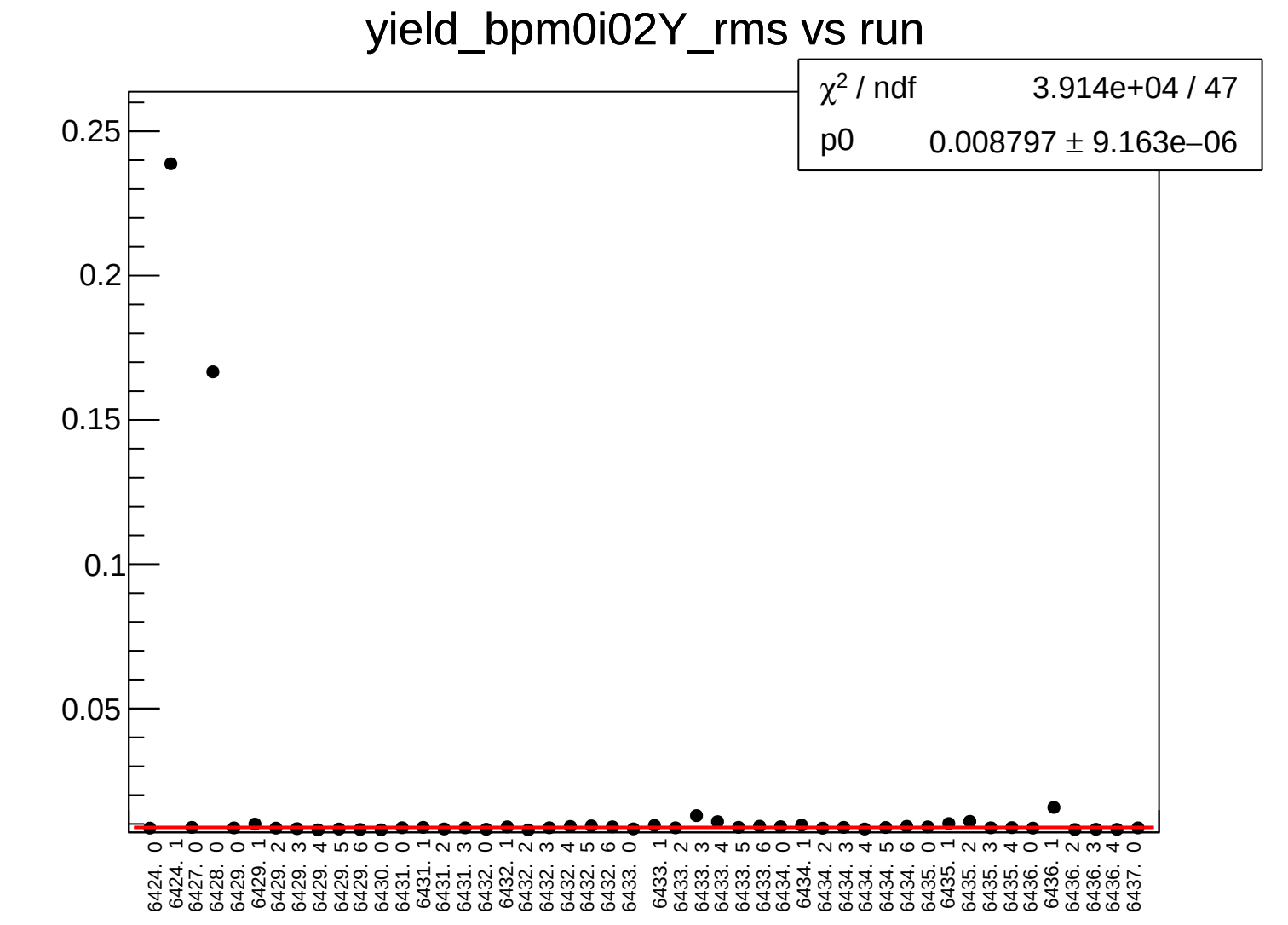

yield_bpm16Y_rms vs run
χ² / ndf 7.031e+04 / 47
p0 0.004381 ± 4.642e−06
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

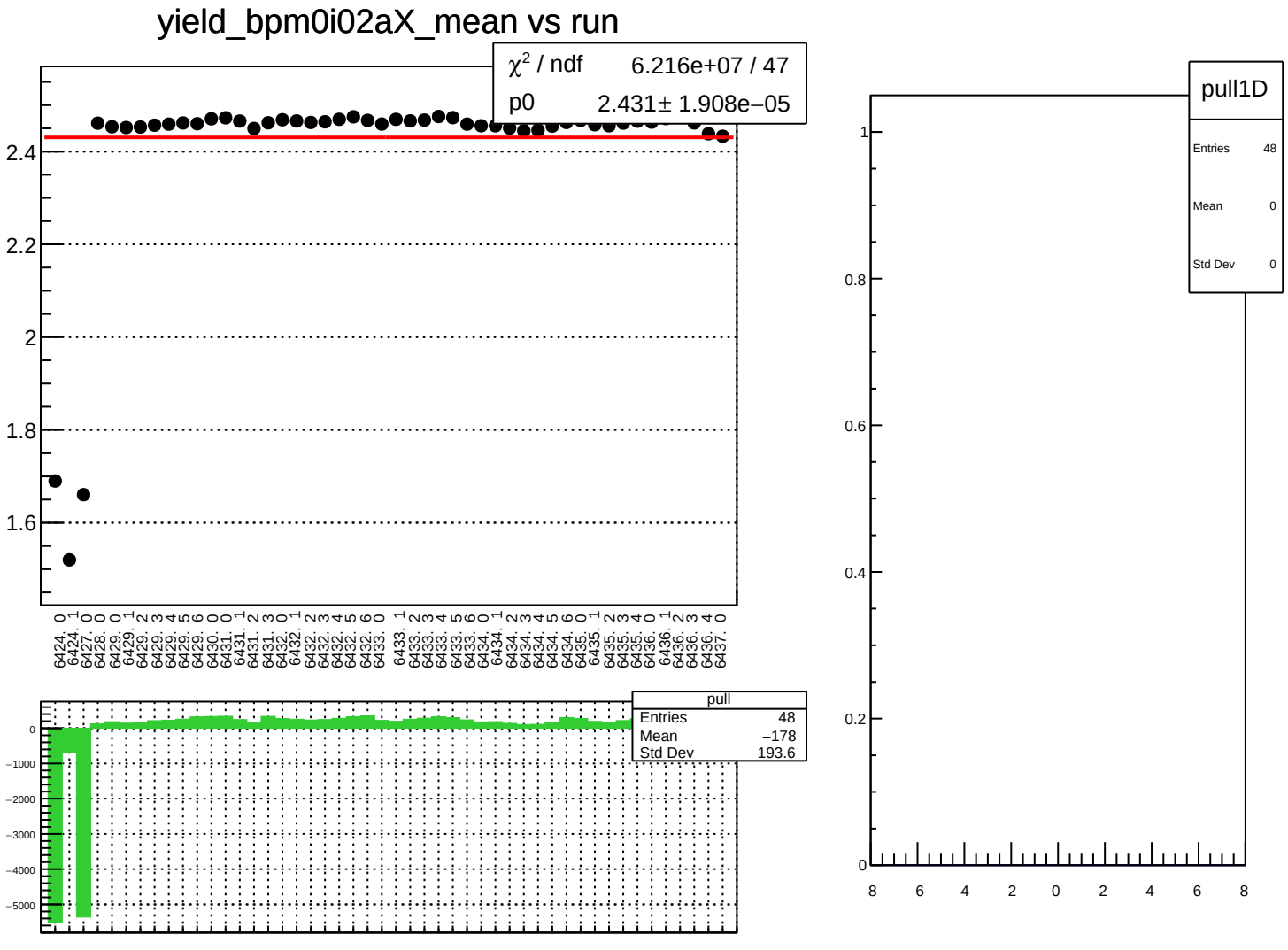

yield_bpm0i02X_mean vs run
χ² / ndf 8.547e+07 / 47
p0 0.3212 ± 1.104e−05
pull
Entries 48
Mean −103.6
Std Dev 117.7

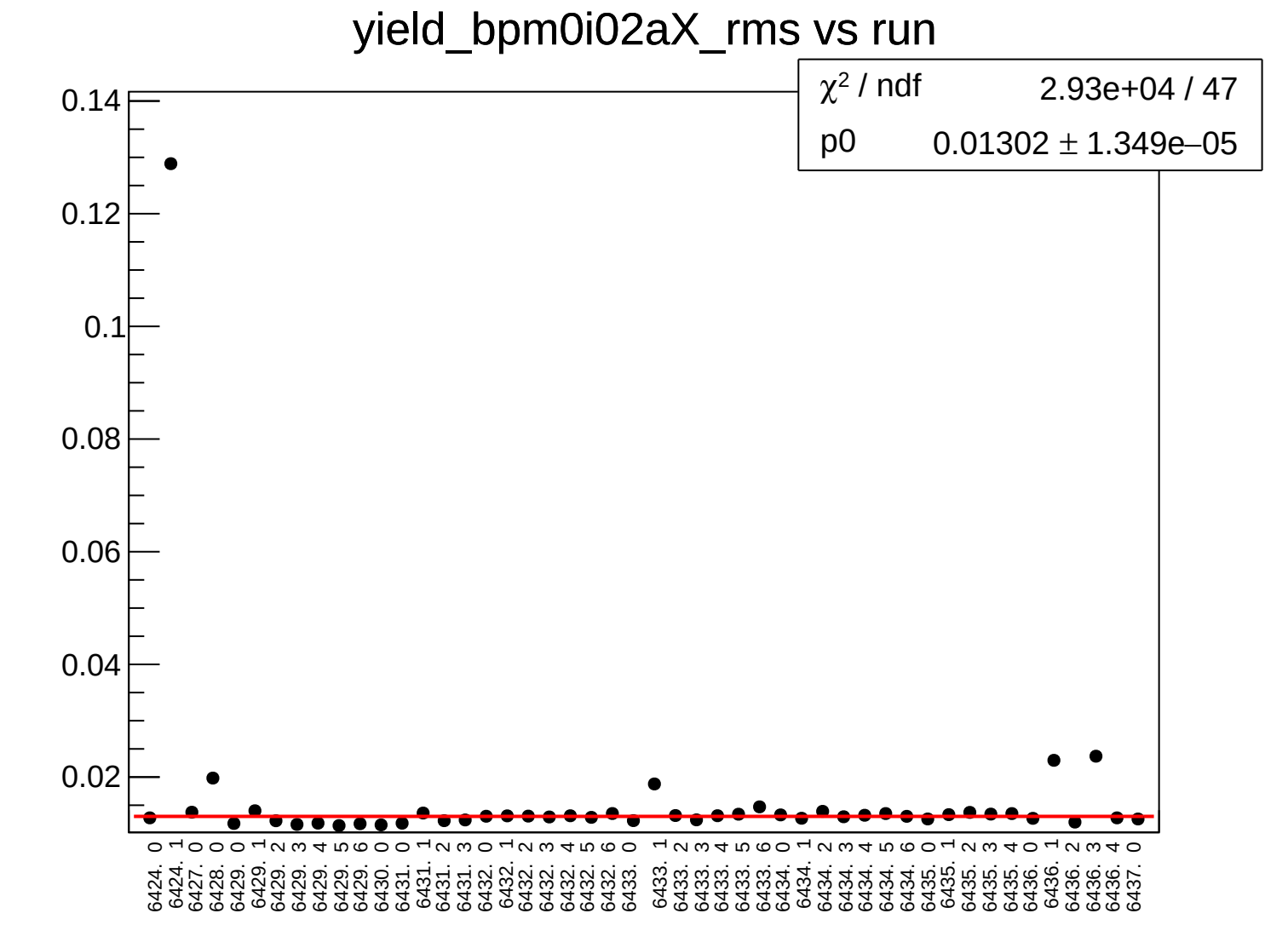

pull1D
Entries 48
Mean 0
Std Dev 0

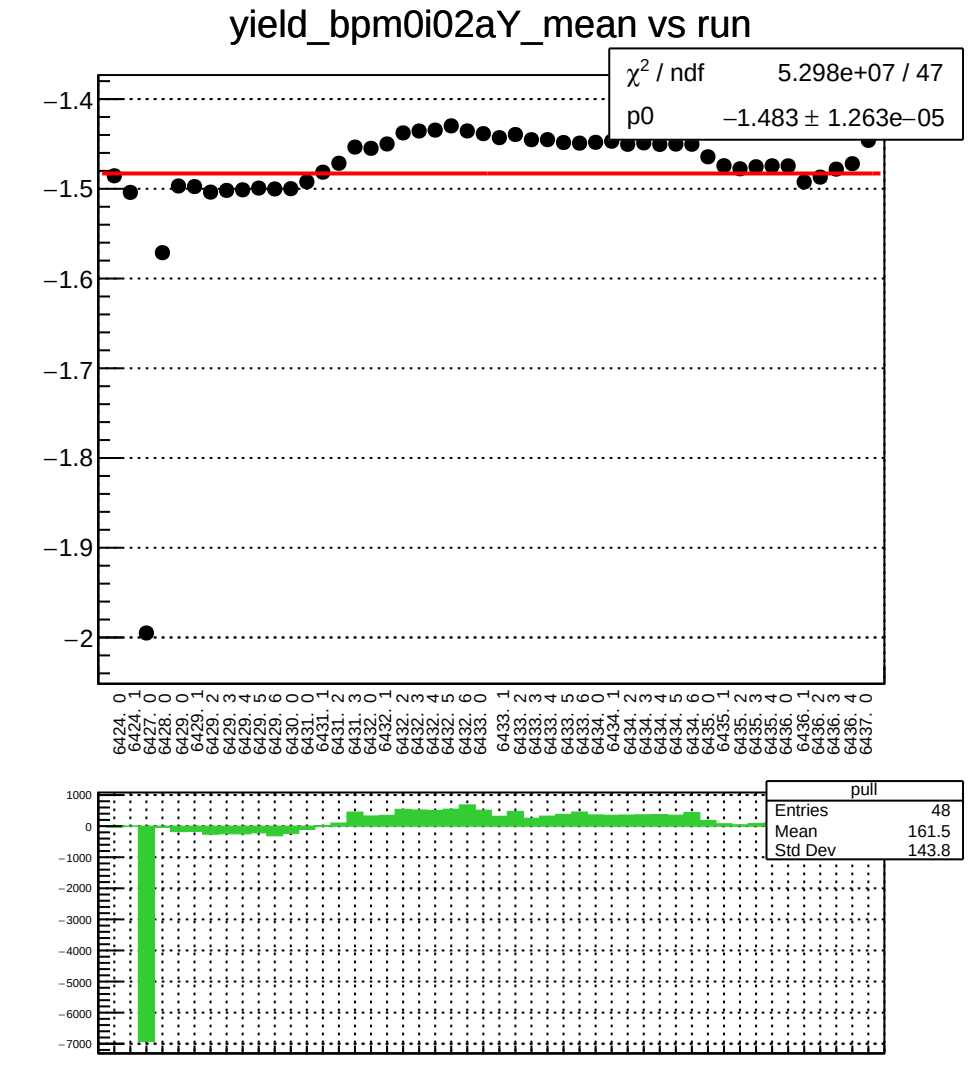

yield_bpm0i02X_rms vs run
χ² / ndf 3.745e+04 / 47
p0 0.007502 ± 7.807e−06
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

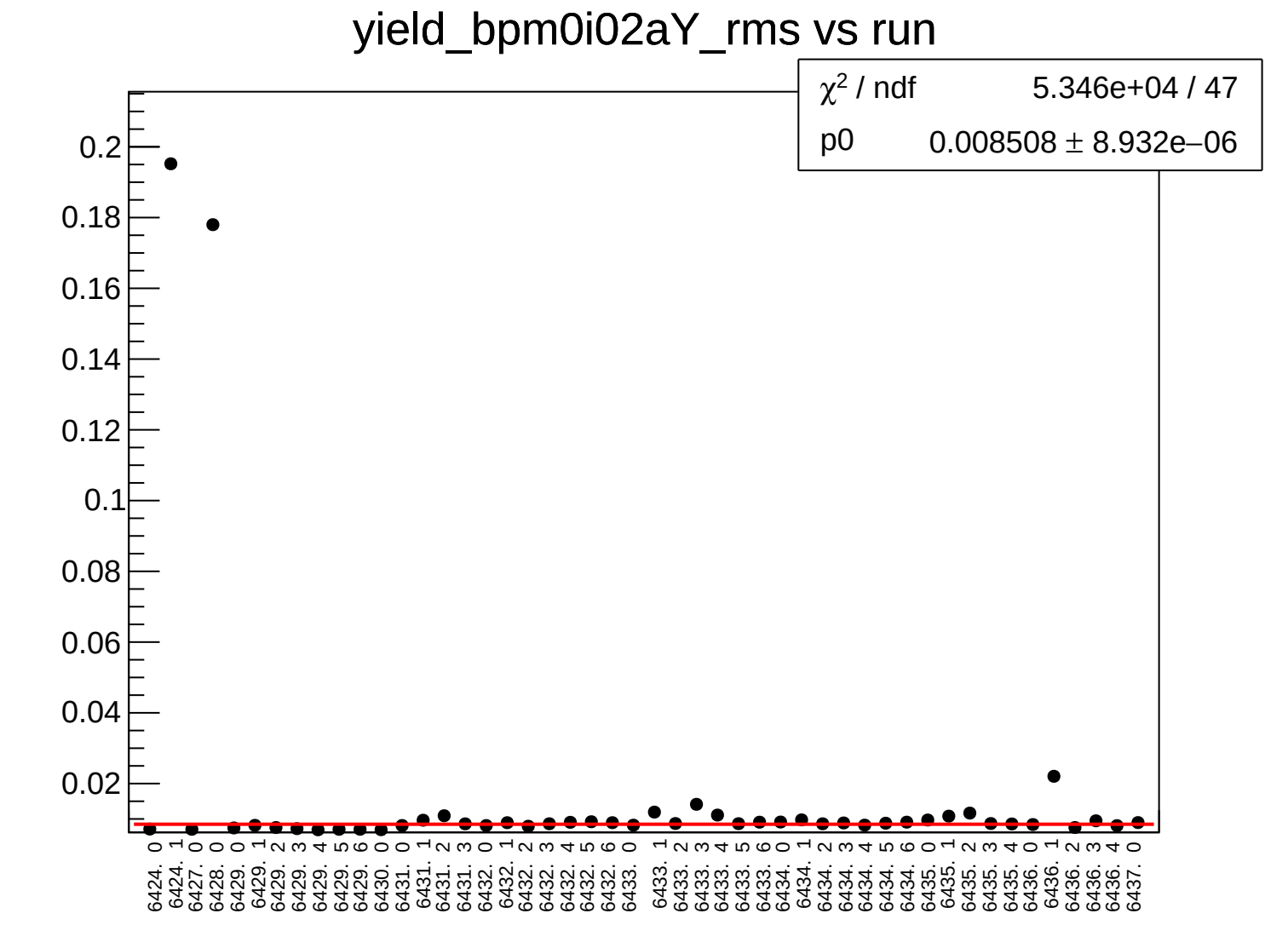

yield_bpm0i02Y_mean vs run
χ² / ndf 4.677e+07 / 47
p0 −3.853 ± 1.296e−05
−3.6
−3.8
−4
−4.2
−4.4
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −281.1
Std Dev 299.8
2000
0
−2000
−4000
−6000
pull1D
Entries 48
Mean 4.681
Std Dev 1.958
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

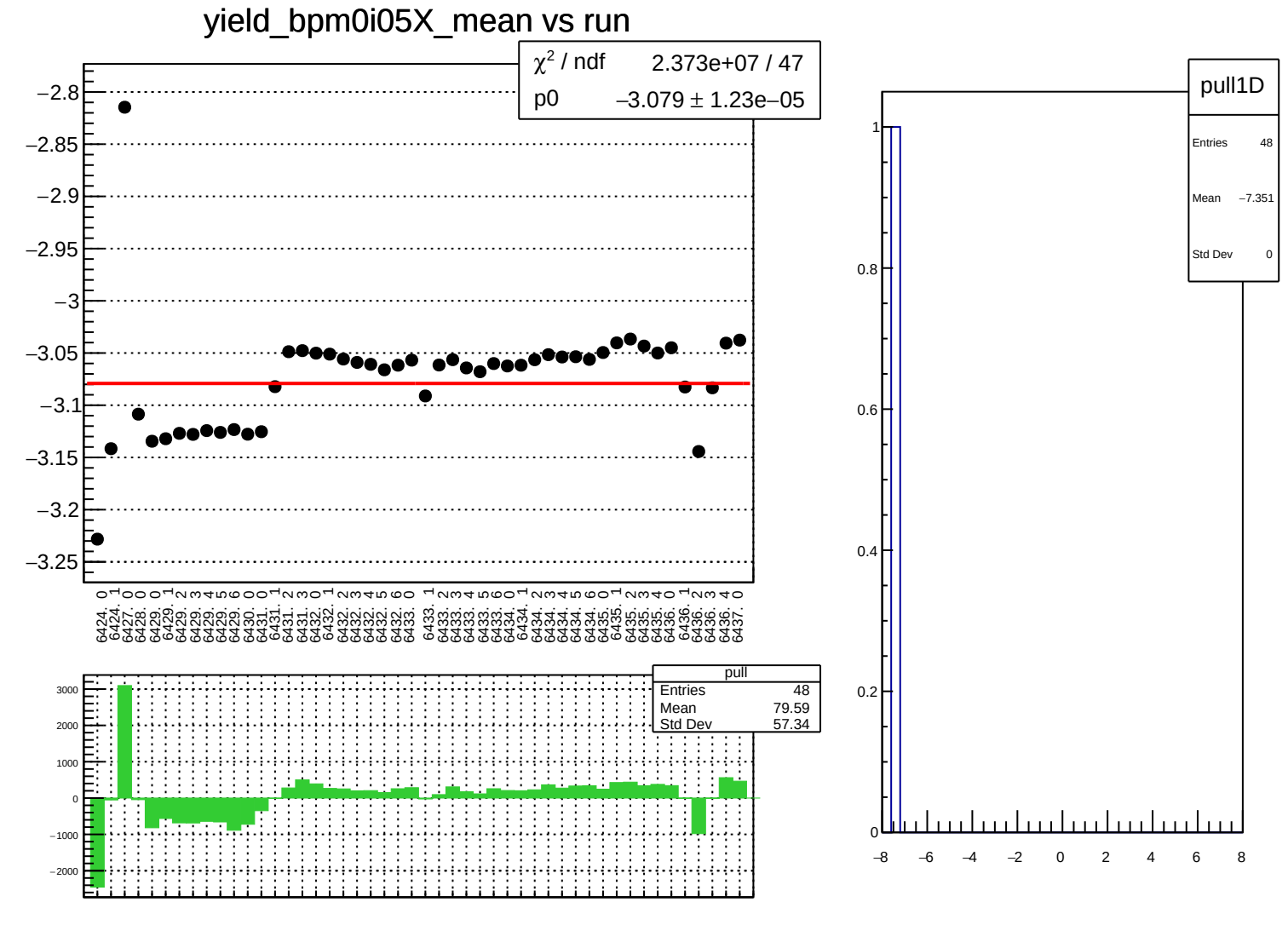

yield_bpm0i02Y_rms vs run
χ² / ndf 3.914e+04 / 47
p0 0.008797 ± 9.163e−06
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

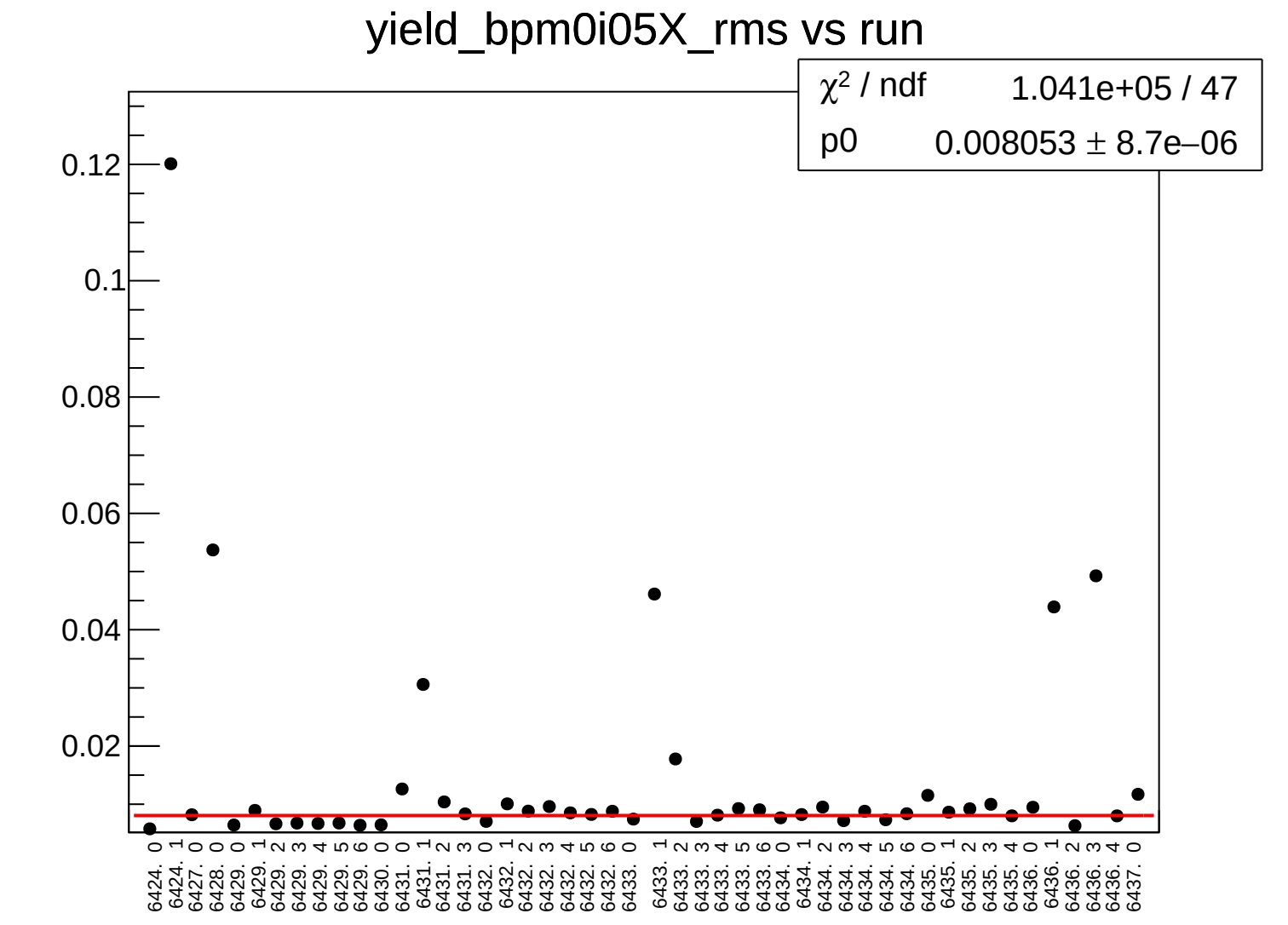

yield_bpm0i02aX_mean vs run
χ² / ndf 6.216e+07 / 47
p0 2.431± 1.908e−05
2.4
2.2
2
1.8
1.6
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −178
Std Dev 193.6
0
−1000
−2000
−3000
−4000
−5000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

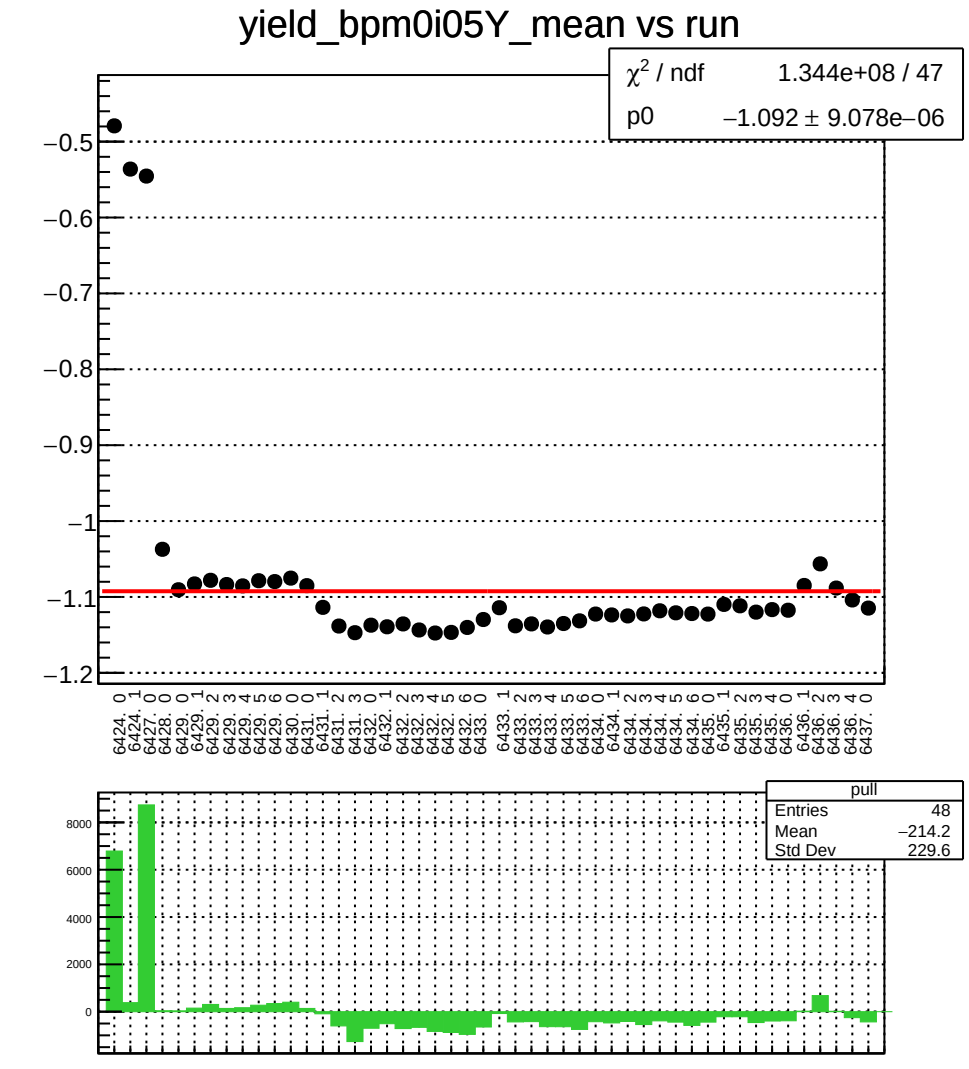

yield_bpm0i02aX_rms vs run
χ² / ndf 2.93e+04 / 47
p0 0.01302 ± 1.349e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

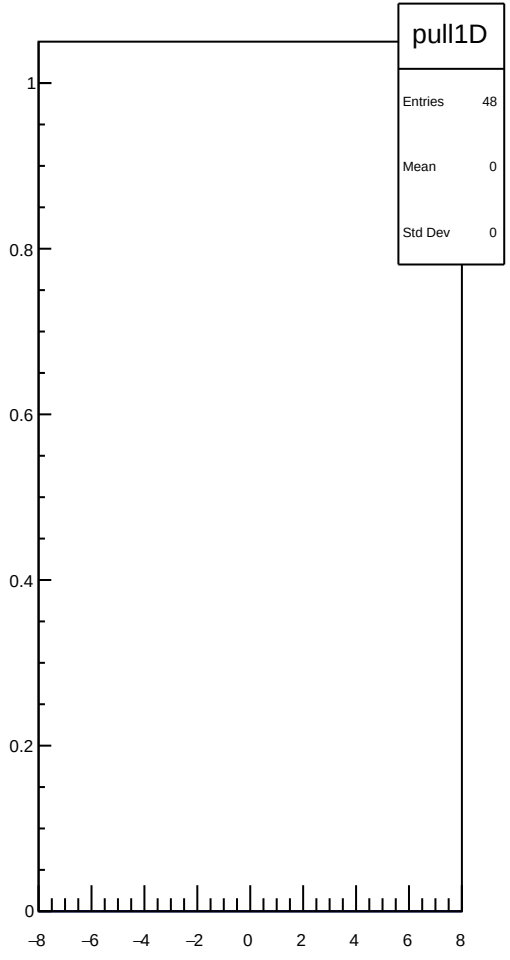

yield_bpm0i02aY_mean vs run
χ² / ndf 5.298e+07 / 47
p0 −1.483 ± 1.263e−05
−1.4
−1.5
−1.6
−1.7
−1.8
−1.9
−2
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 161.5
Std Dev 143.8
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

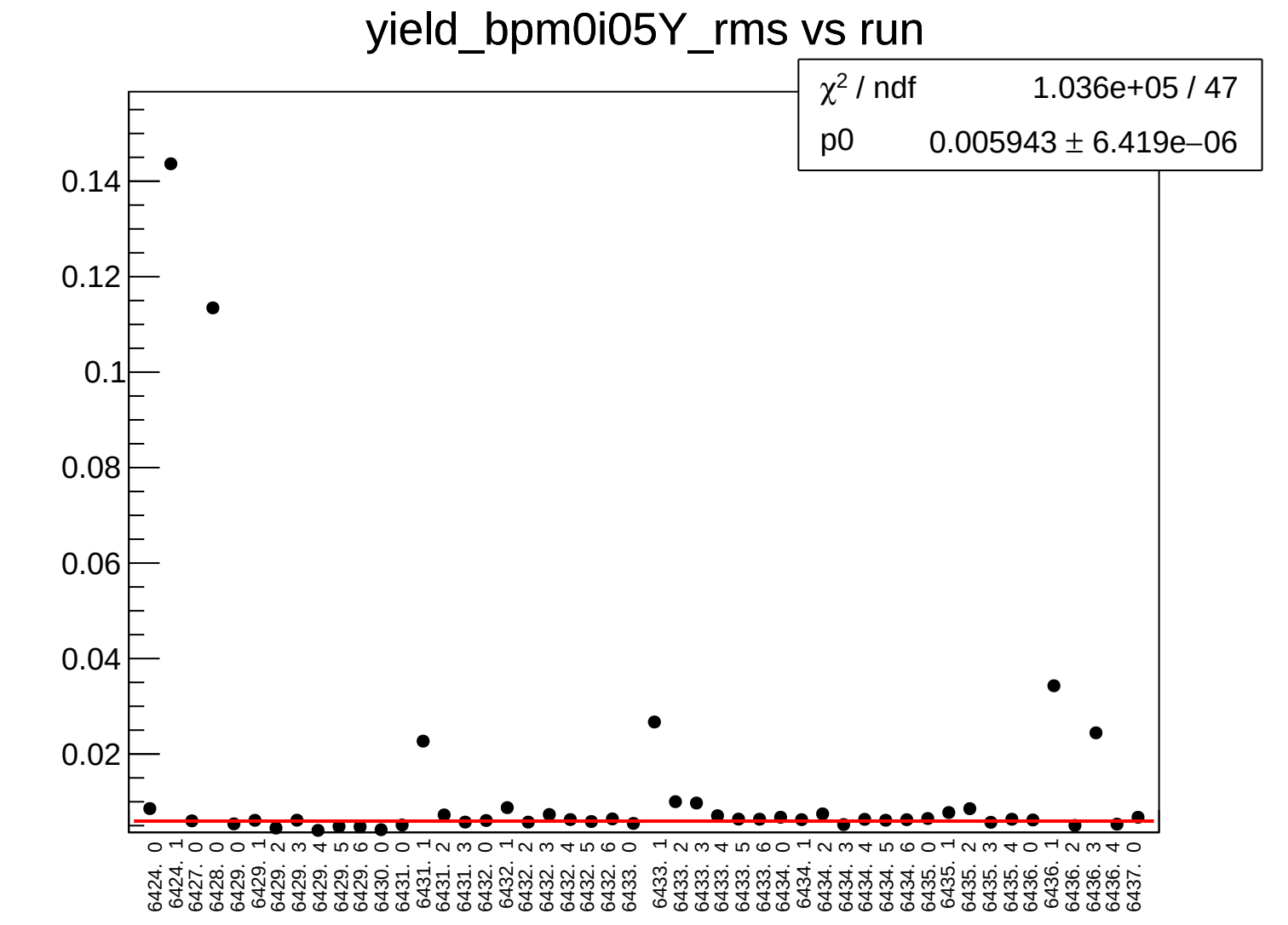

yield_bpm0i02aY_rms vs run
χ² / ndf 5.346e+04 / 47
p0 0.008508 ± 8.932e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

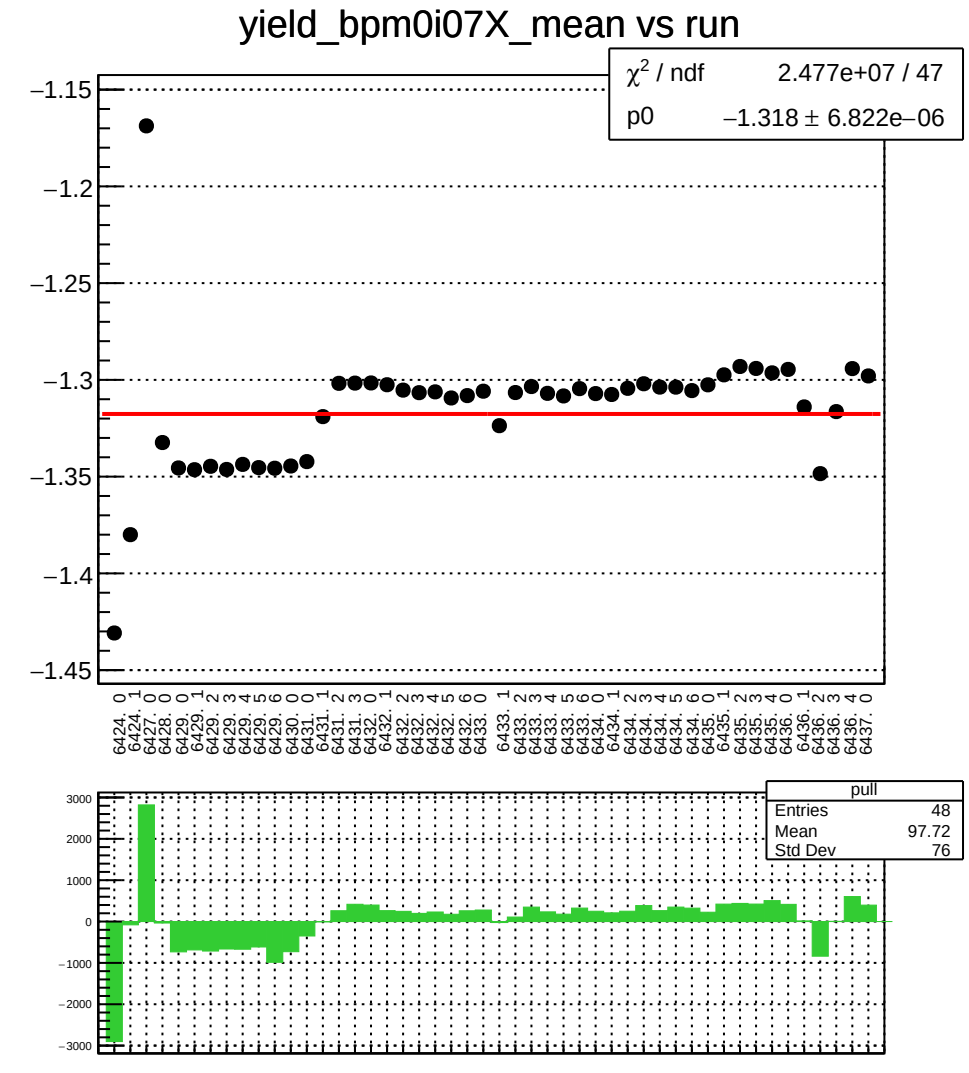

yield_bpm0i05X_mean vs run
χ² / ndf 2.373e+07 / 47
p0 −3.079 ± 1.23e−05
−2.8
−2.85
−2.9
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 79.59
Std Dev 57.34
3000
2000
1000
0
−1000
−2000
pull1D
Entries 48
Mean −7.351
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

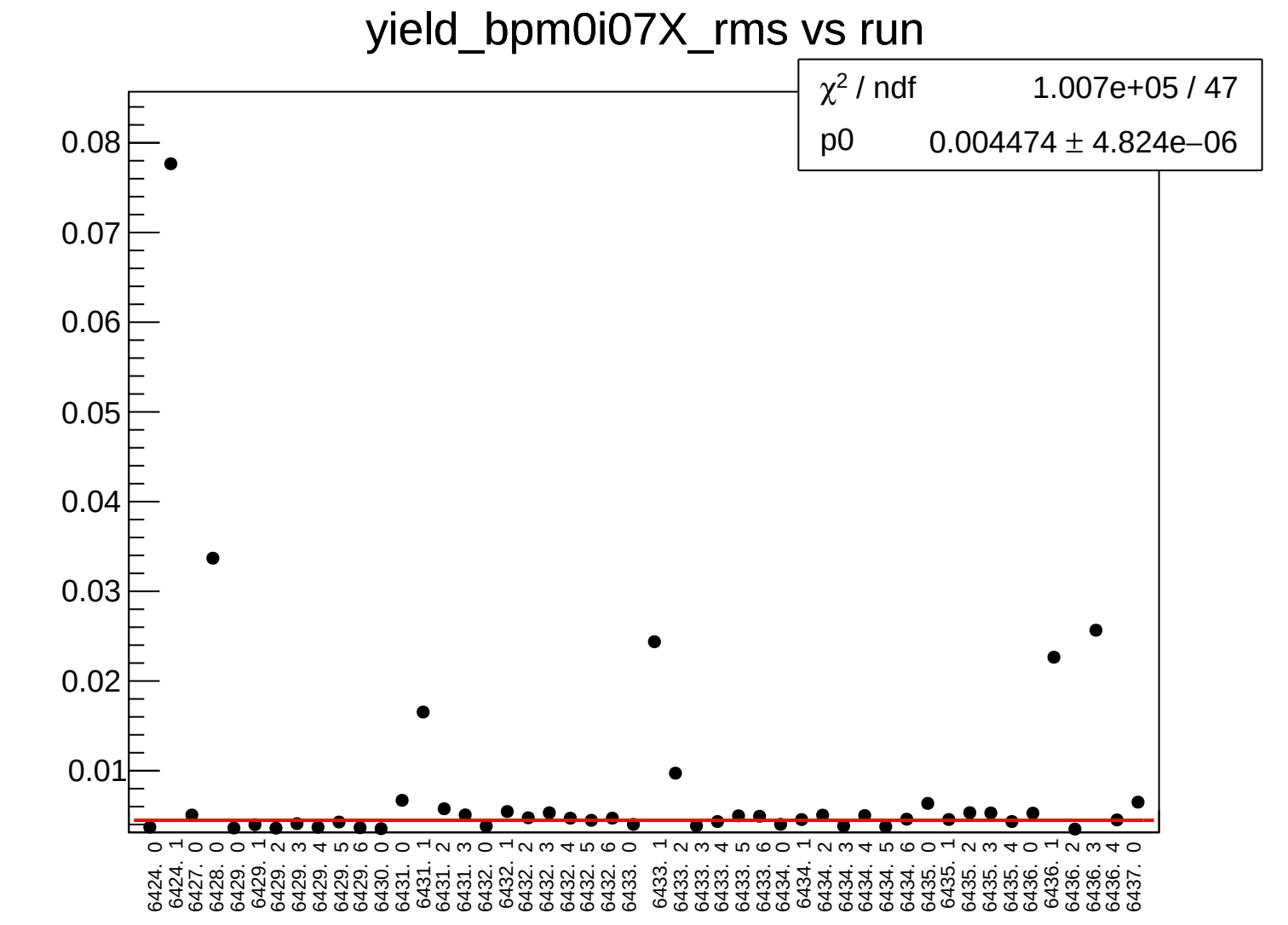

yield_bpm0i05X_rms vs run
χ² / ndf 1.041e+05 / 47
p0 0.008053 ± 8.7e–06
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

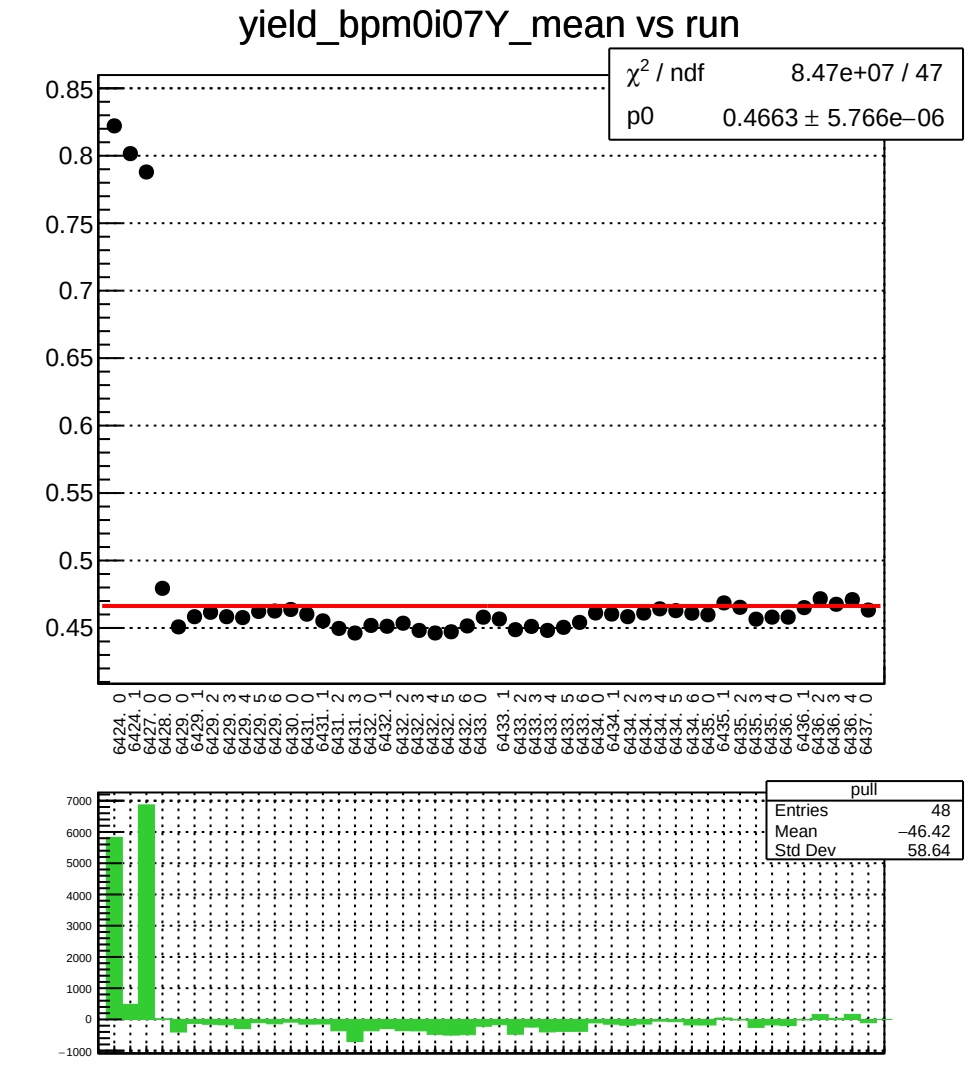

yield_bpm0i05Y_mean vs run
χ² / ndf 1.344e+08 / 47
p0 −1.092 ± 9.078e−06
pull
Entries 48
Mean −214.2
Std Dev 229.6


pull1D
Entries 48
Mean 0
Std Dev 0


yield_bpm0i05Y_rms vs run
χ² / ndf 1.036e+05 / 47
p0 0.005943 ± 6.419e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_bpm0i07X_mean vs run
χ² / ndf 2.477e+07 / 47
p0 −1.318 ± 6.822e−06
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 97.72
Std Dev 76
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 48
Mean −1.654
Std Dev 6.201
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07X_rms vs run
χ² / ndf 1.007e+05 / 47
p0 0.004474 ± 4.824e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_bpm0i07Y_mean vs run
χ² / ndf 8.47e+07 / 47
p0 0.4663 ± 5.766e−06
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
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6433. 1
6433. 2
6433. 3
6433. 4
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6434. 0
6434. 1
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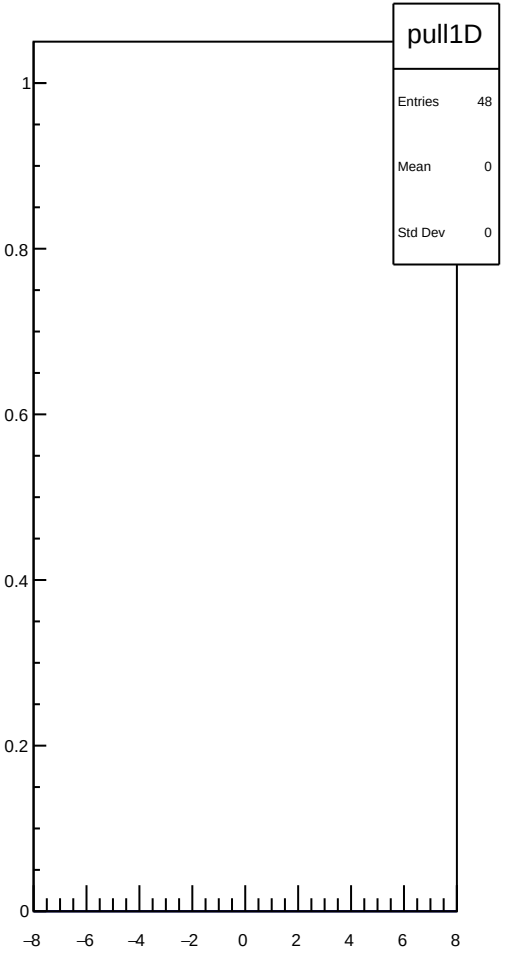
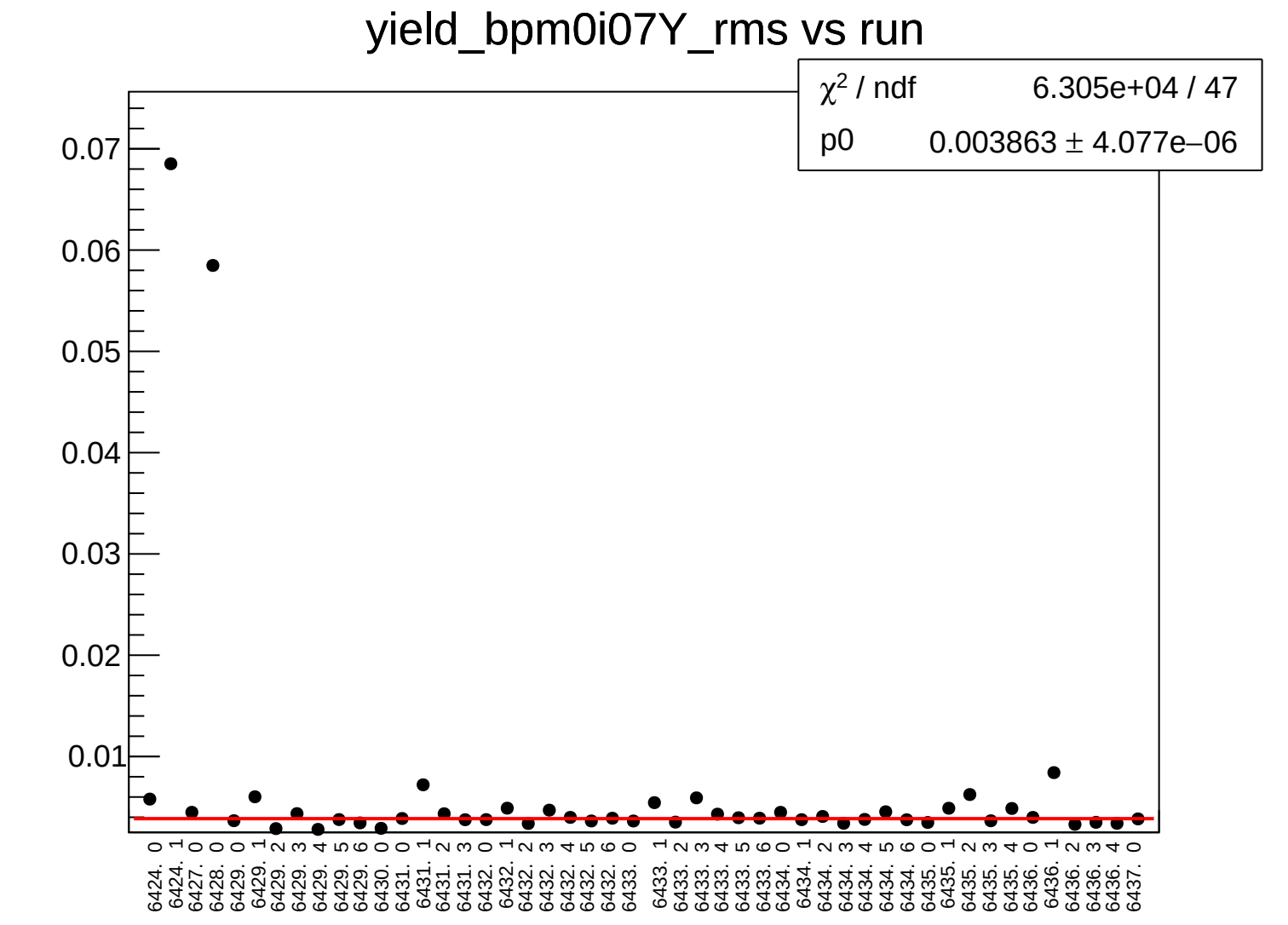
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −46.42
Std Dev 58.64
7000
6000
5000
4000
3000
2000
1000
0
−1000


pull1D
Entries 48
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_bpm0i07Y_rms vs run
χ² / ndf 6.305e+04 / 47
p0 0.003863 ± 4.077e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
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6436. 2
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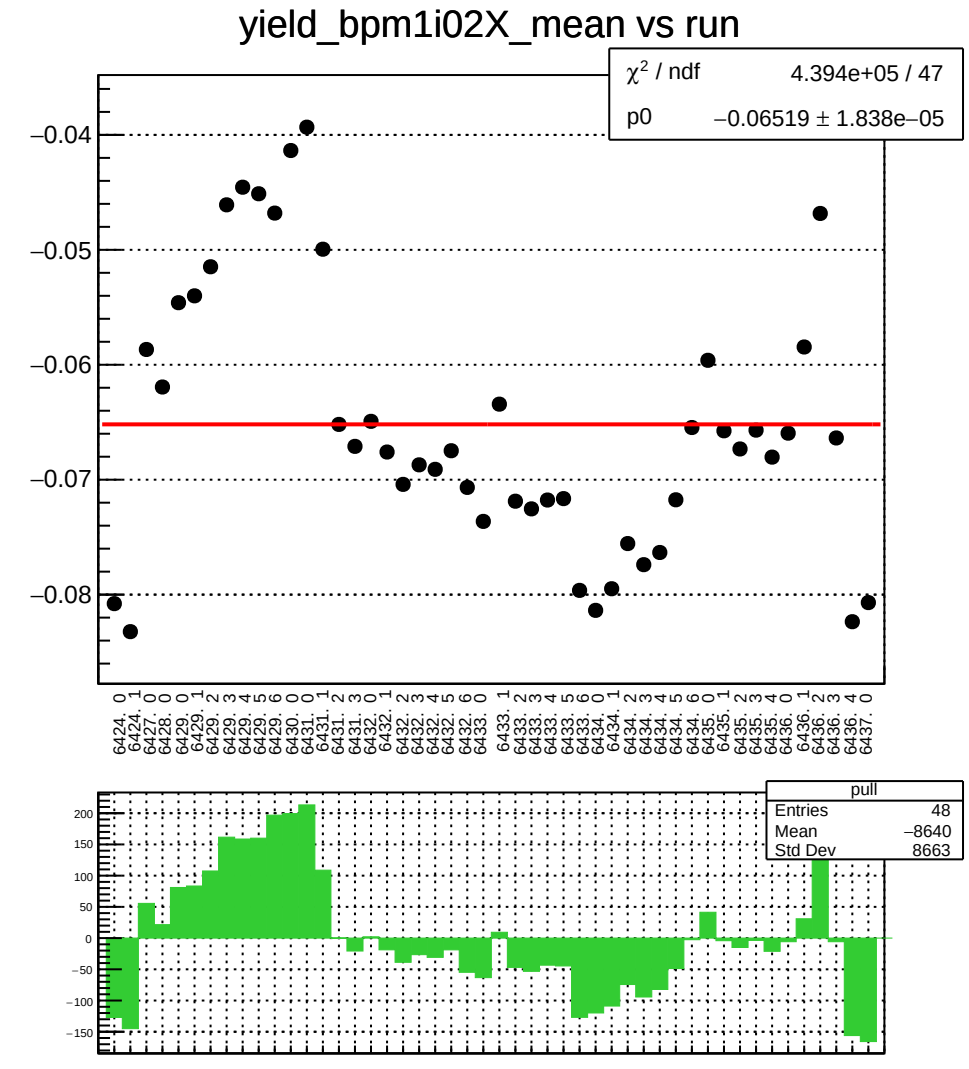
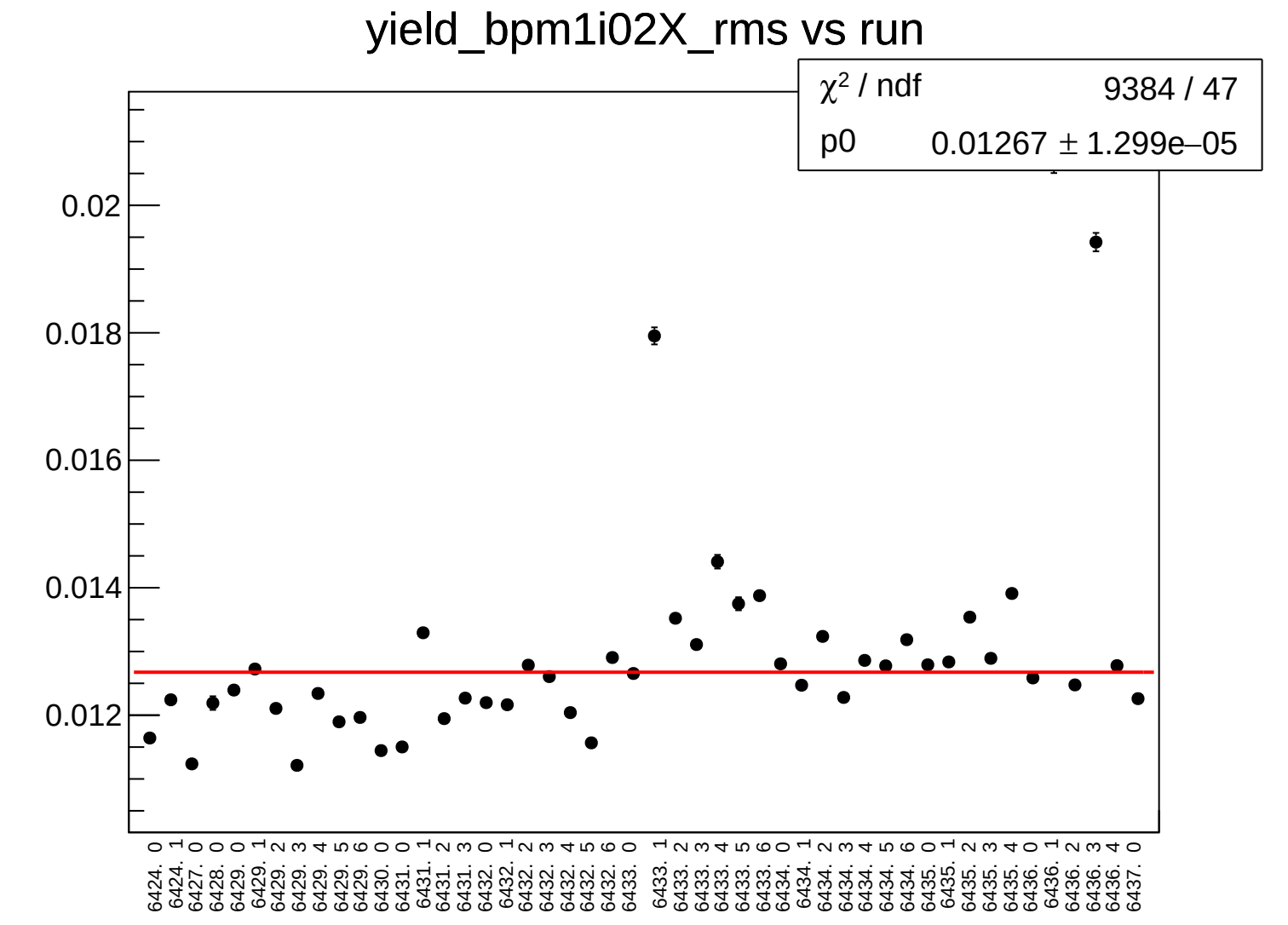
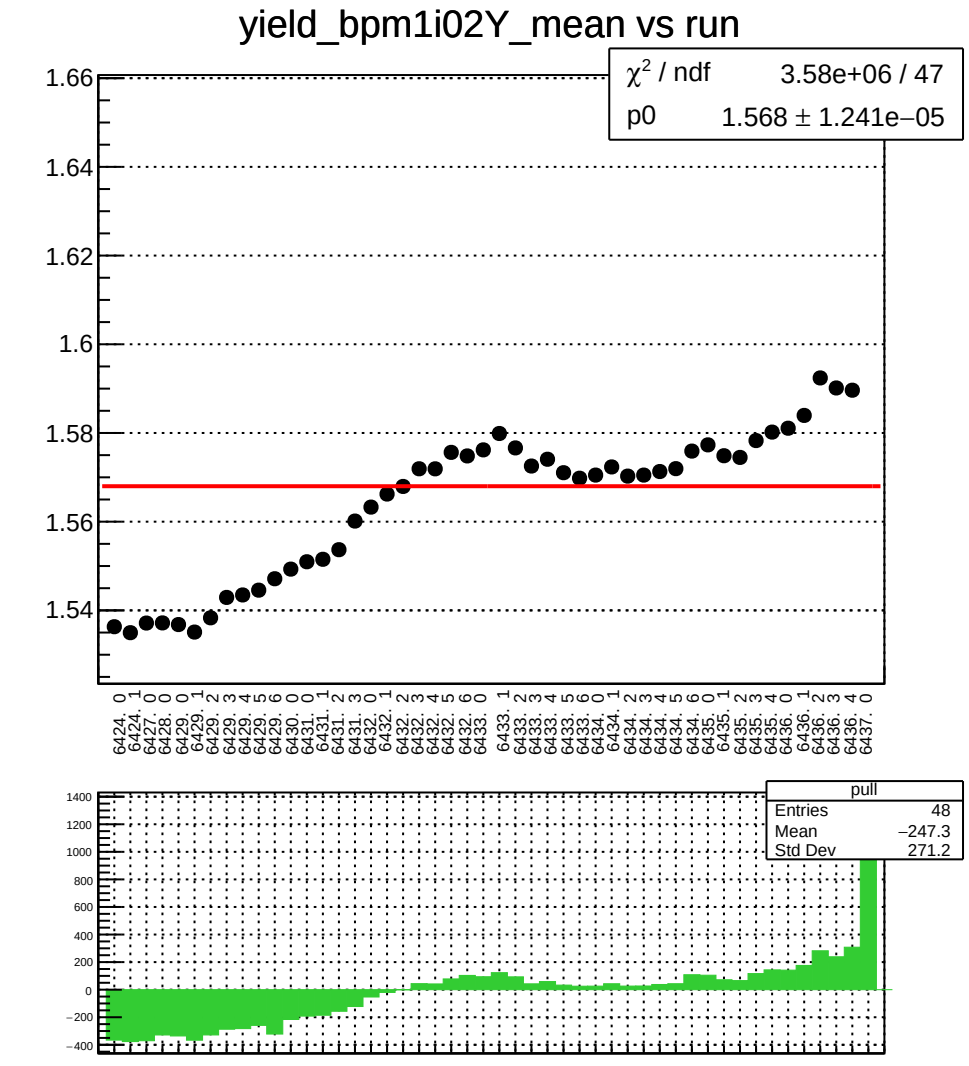
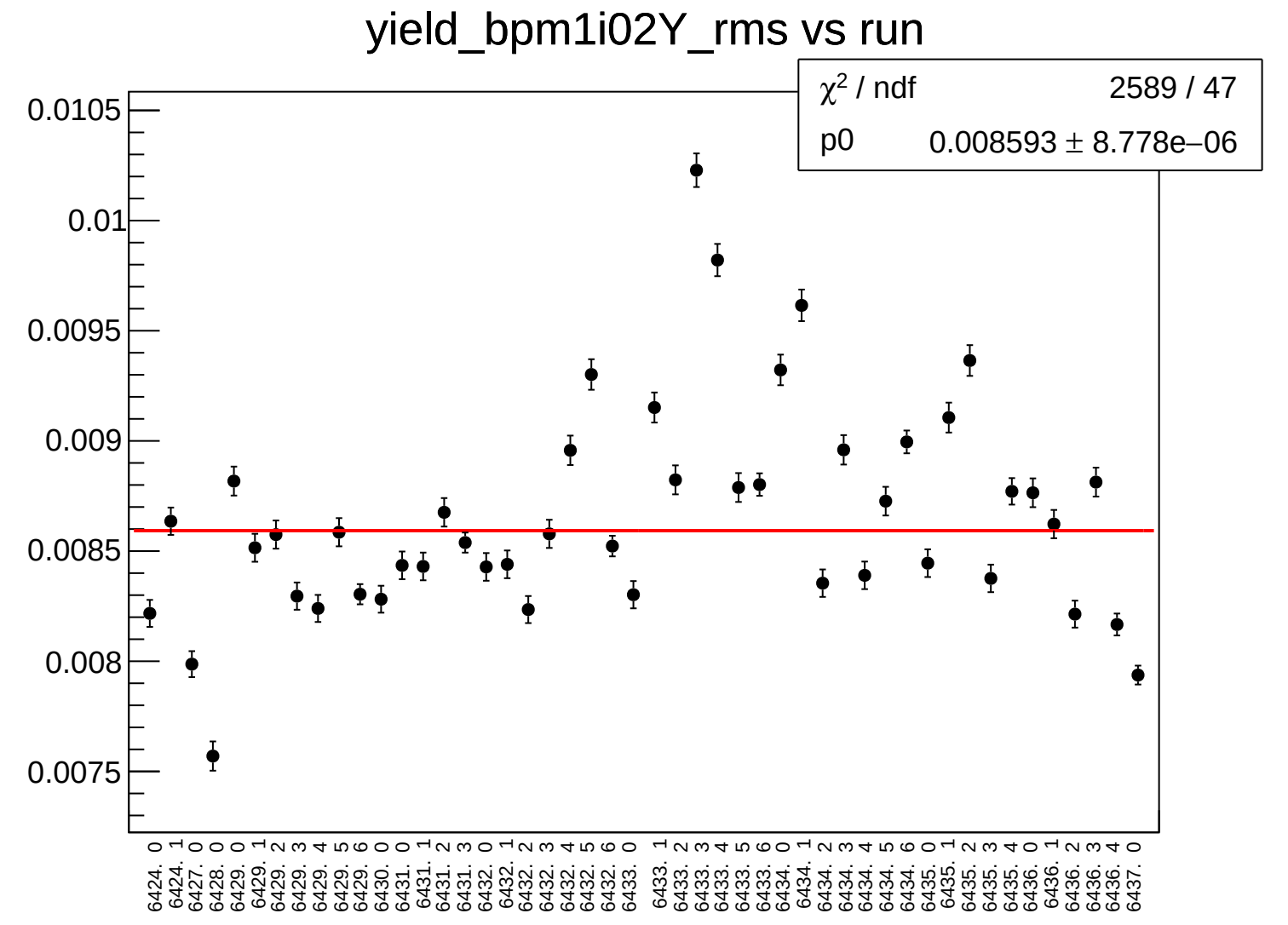
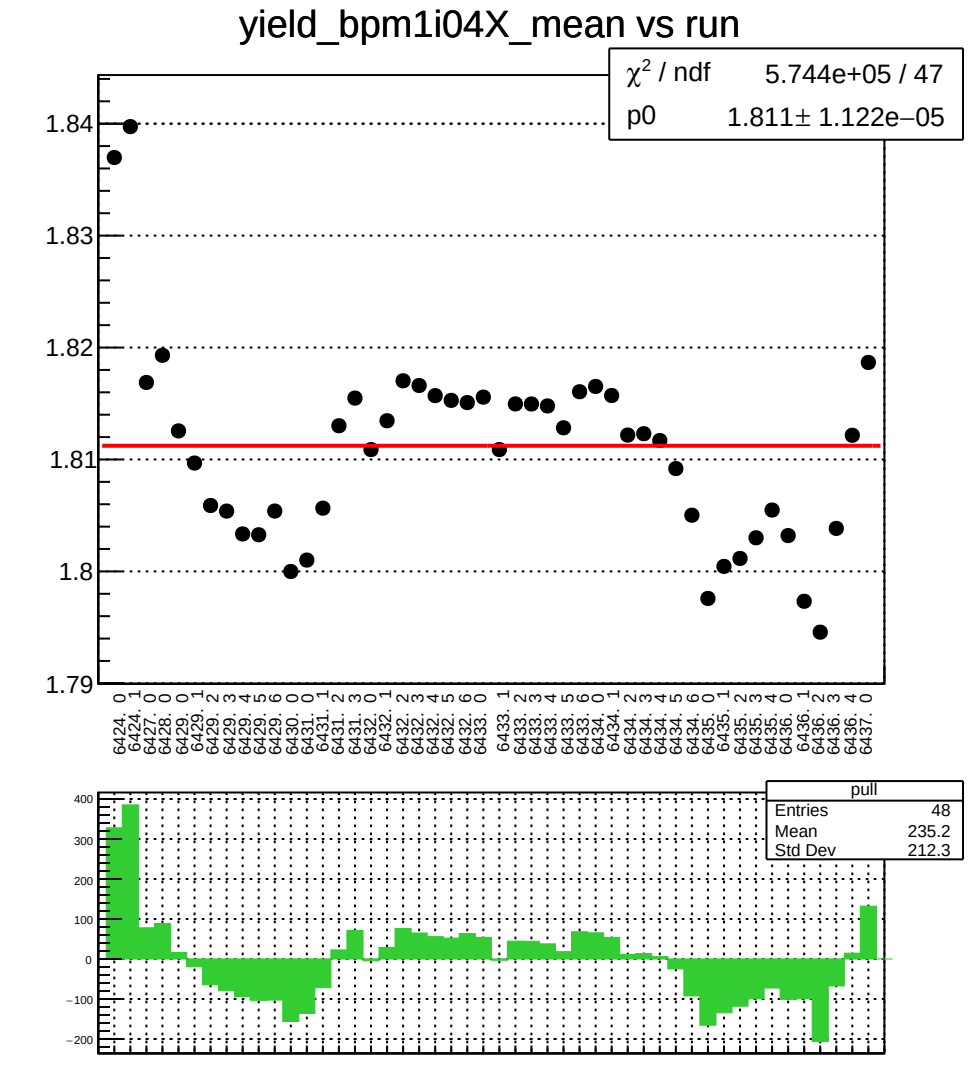
6437. 0

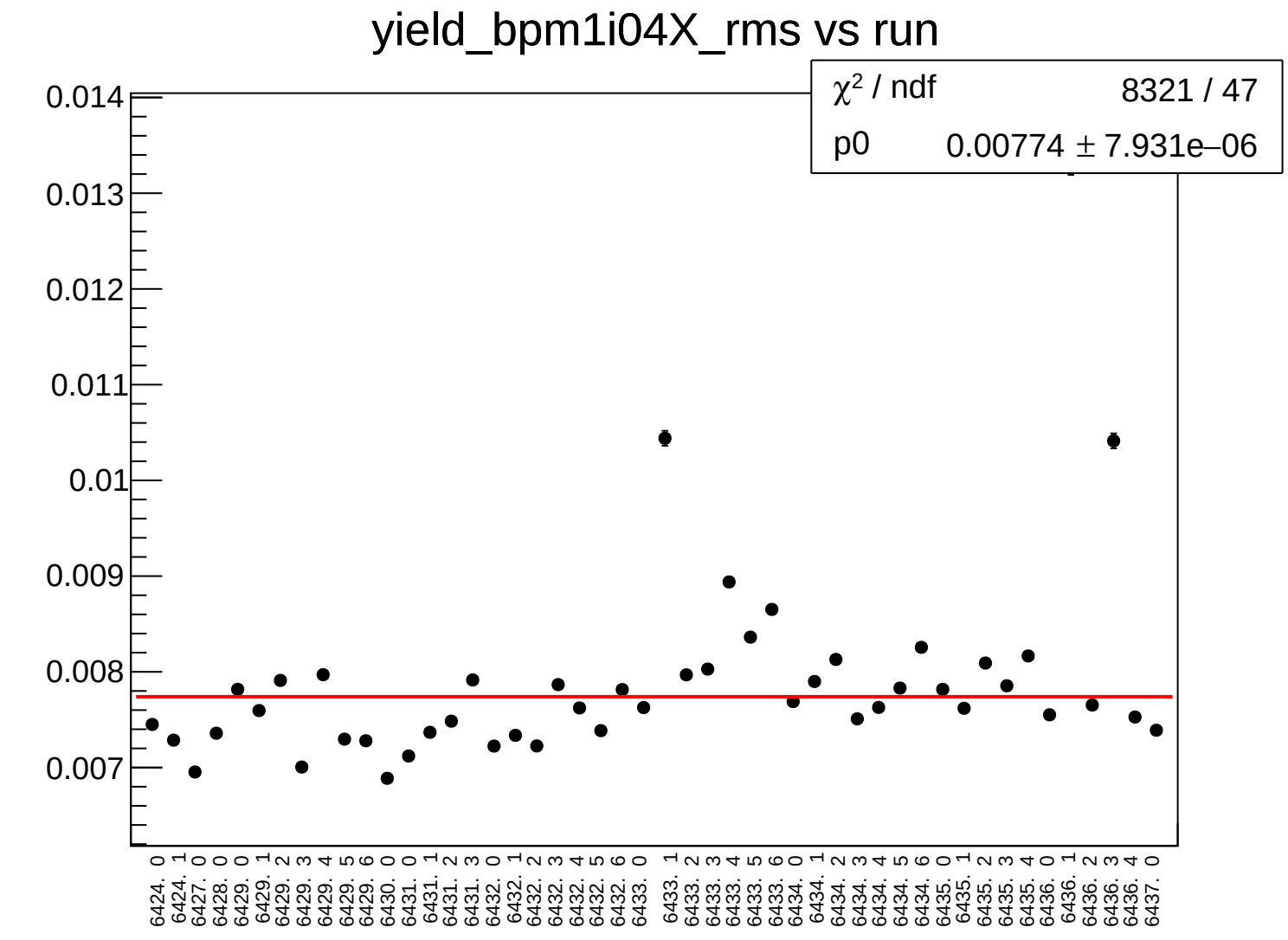

yield_bpm1i02X_mean vs run
χ² / ndf 4.394e+05 / 47
p0 −0.06519 ± 1.838e−05
−0.04
−0.05
−0.06
−0.07
−0.08
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −8640
Std Dev 8663
200
150
100
50
0
−50
−100
−150
pull1D
Entries 48
Mean −2.846
Std Dev 2.71
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

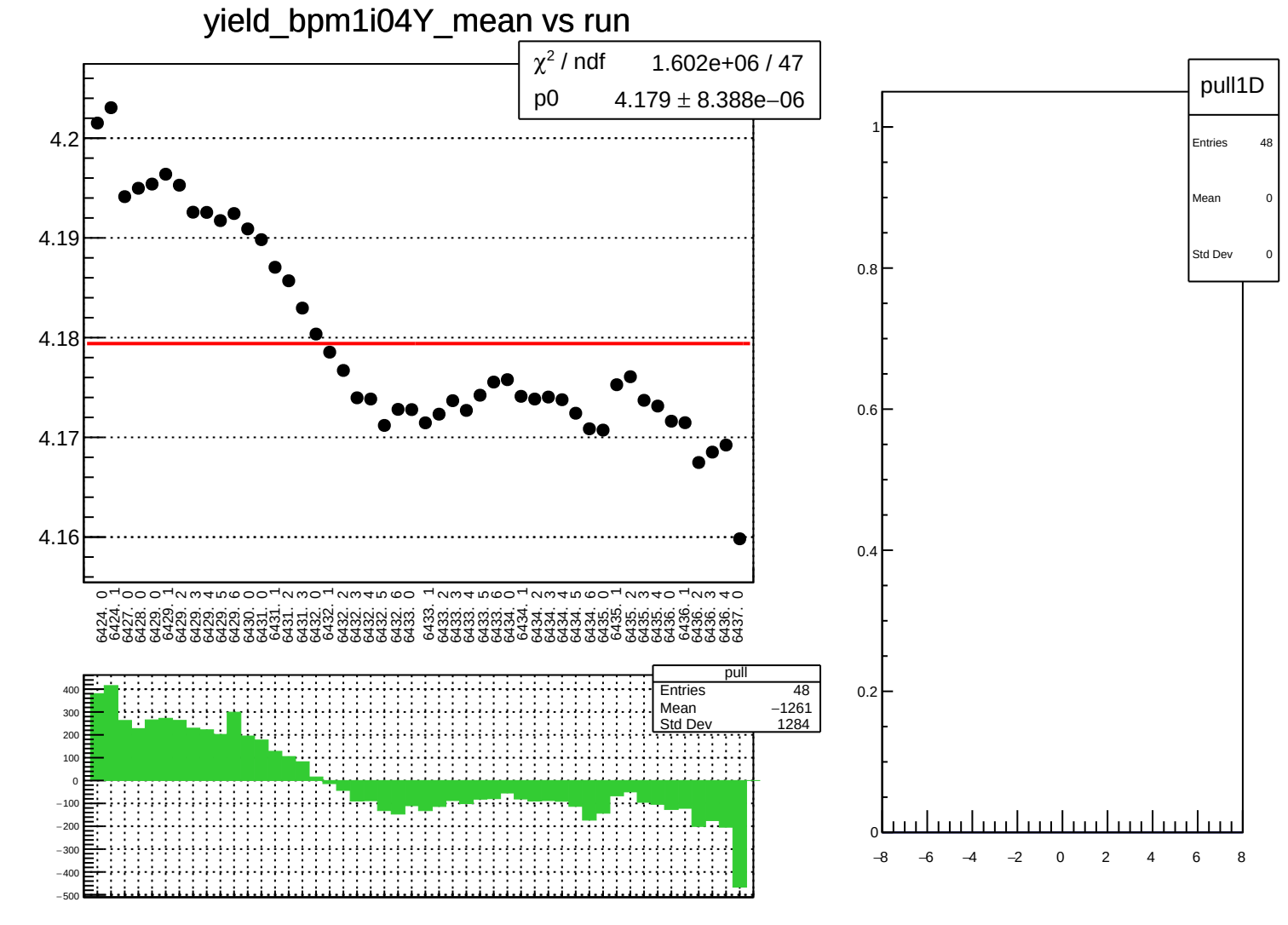

yield_bpm1i02X_rms vs run
χ² / ndf 9384 / 47
p0 0.01267 ± 1.299e–05
0.02
0.018
0.016
0.014
0.012
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

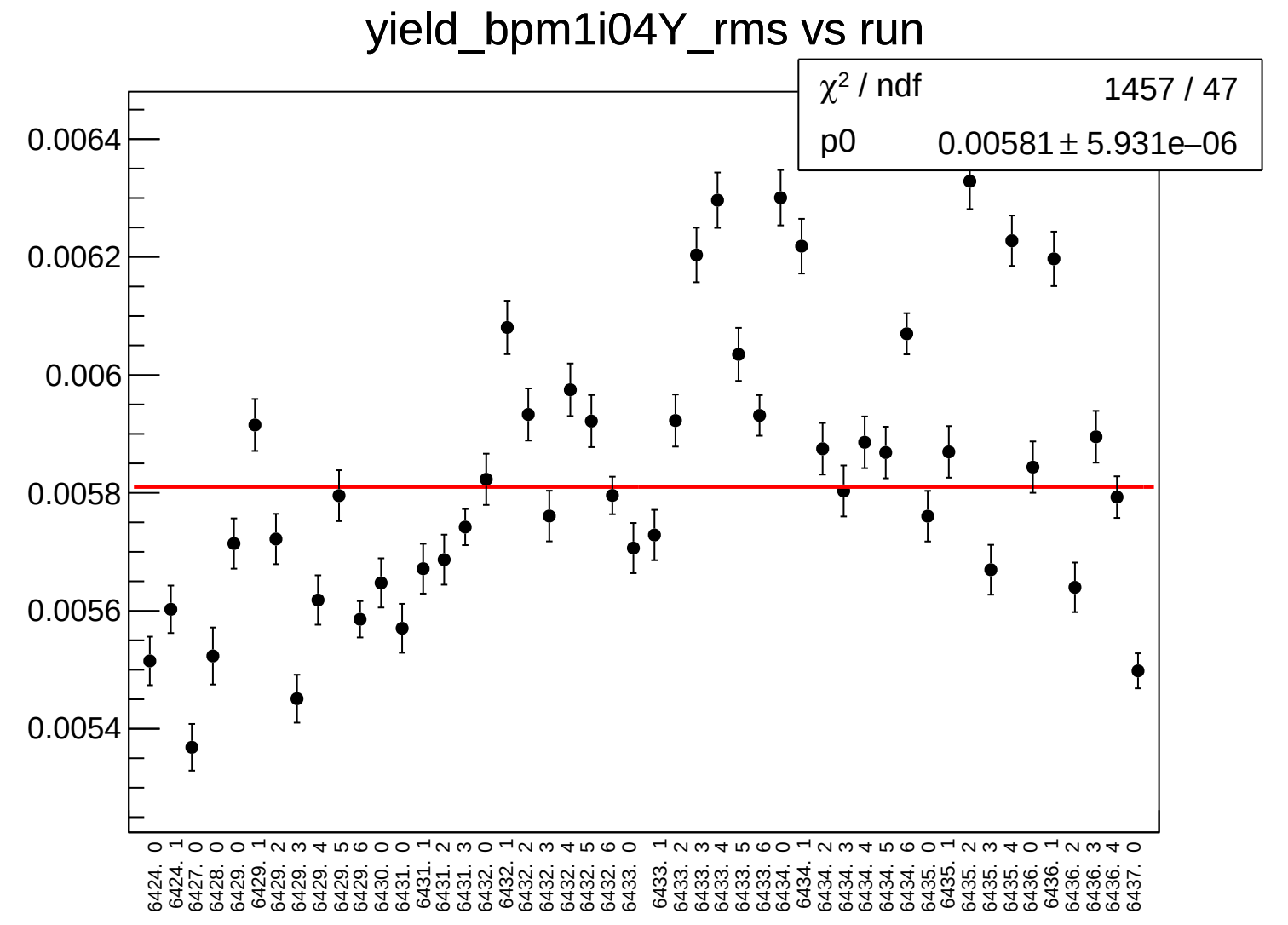

yield_bpm1i02Y_mean vs run
χ² / ndf 3.58e+06 / 47
p0 1.568 ± 1.241e−05
1.66
1.64
1.62
1.6
1.58
1.56
1.54
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −247.3
Std Dev 271.2
1400
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 48
Mean −0.5722
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

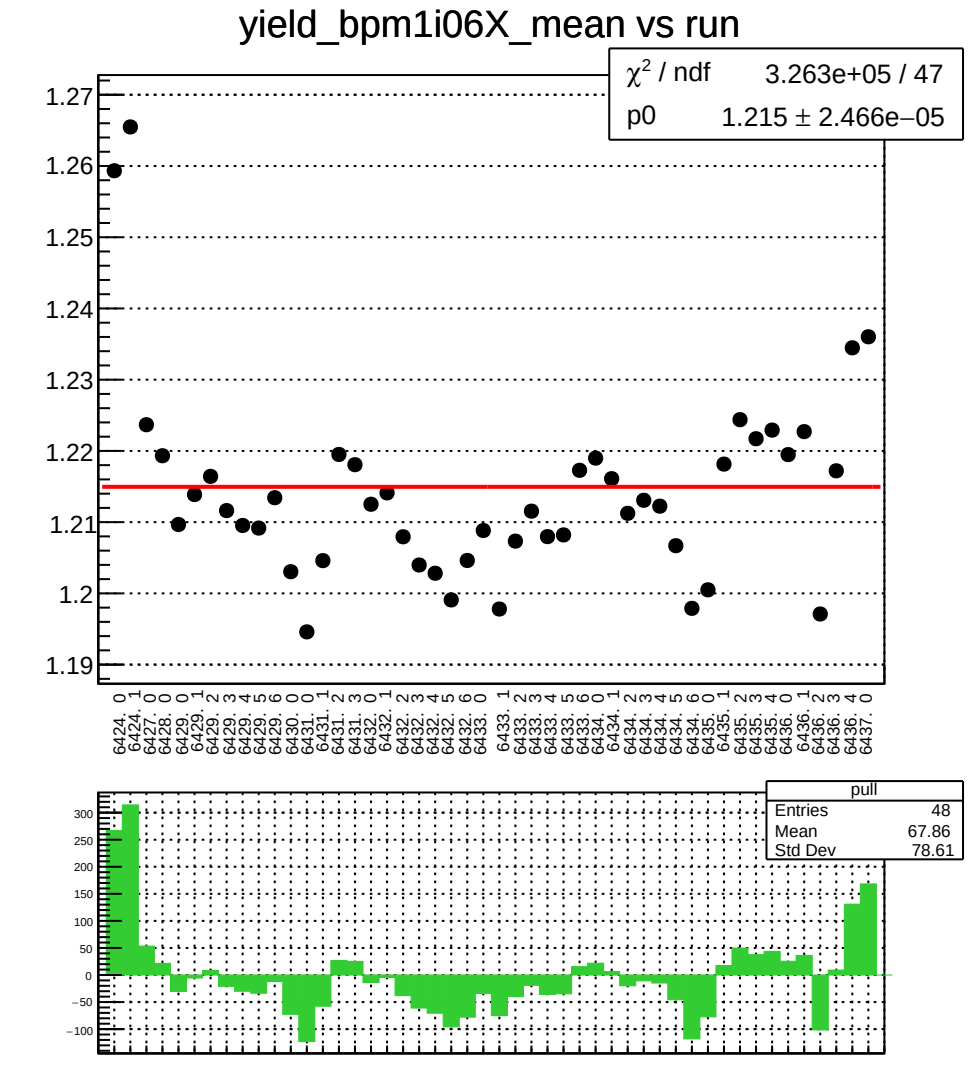

yield_bpm1i02Y_rms vs run
χ² / ndf 2589 / 47
p0 0.008593 ± 8.778e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

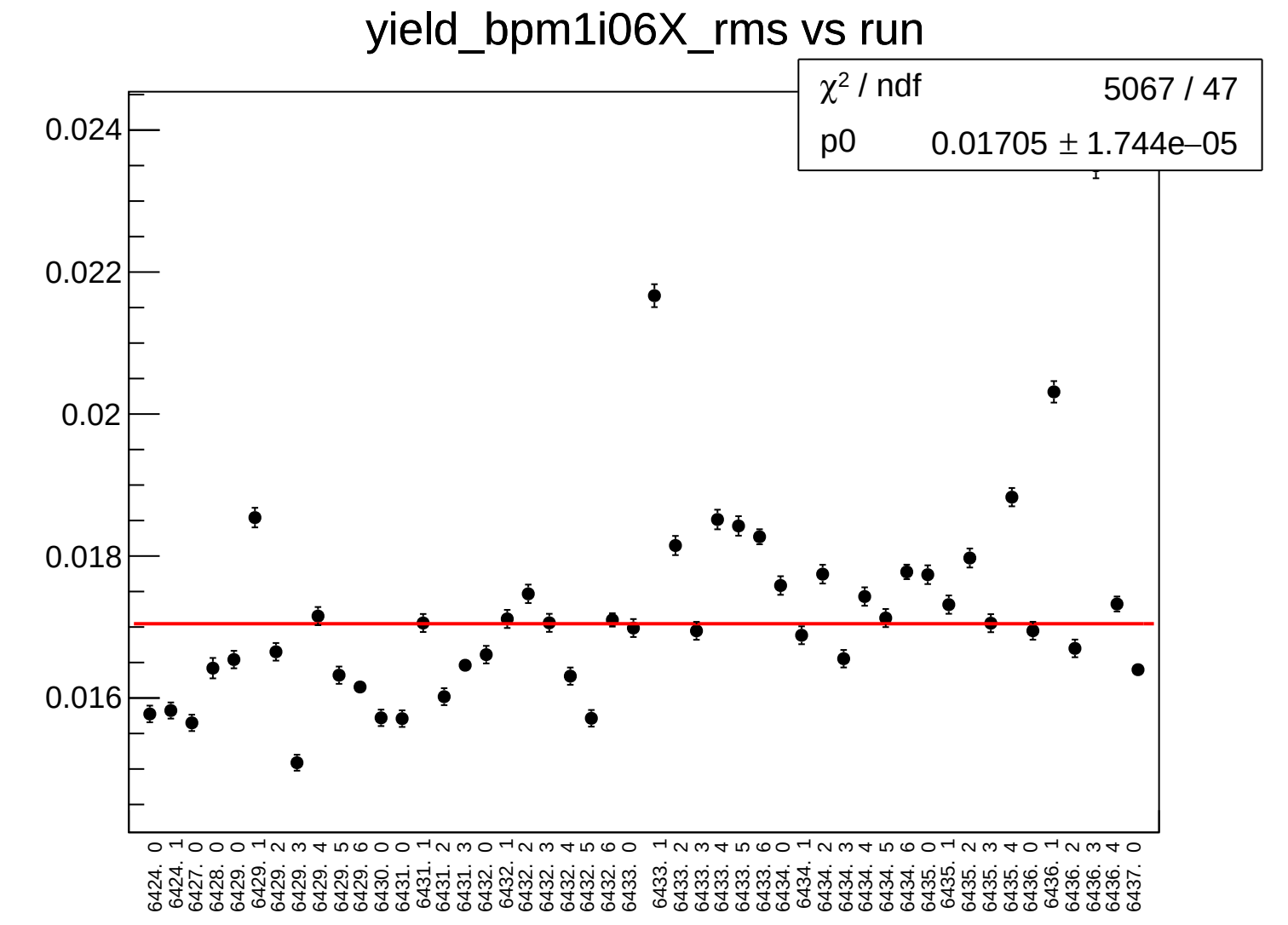

yield_bpm1i04X_mean vs run
χ² / ndf 5.744e+05 / 47
p0 1.811± 1.122e−05
1.84
1.83
1.82
1.81
1.8
1.79
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 235.2
Std Dev 212.3
400
300
200
100
0
−100
−200
pull1D
Entries 48
Mean −0.5913
Std Dev 4.557
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

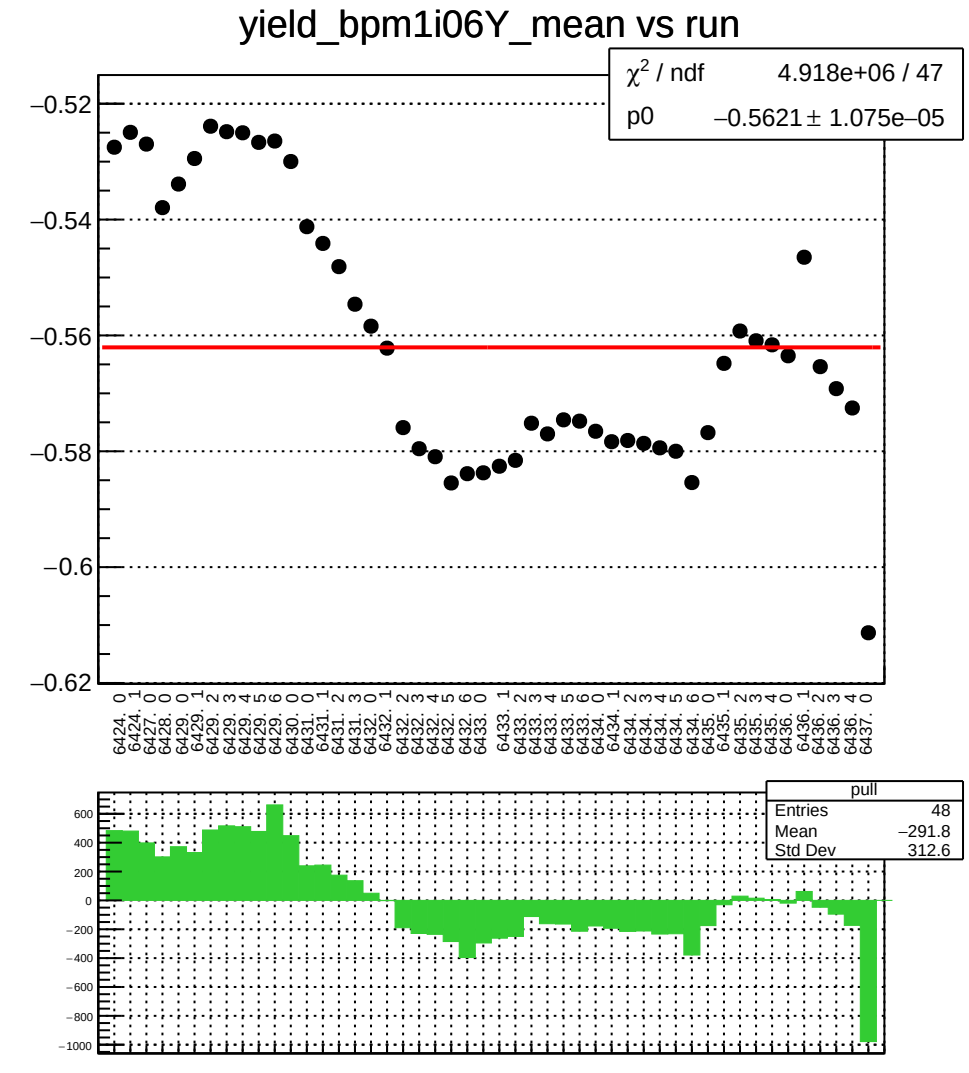

yield_bpm1i04X_rms vs run
χ² / ndf 8321 / 47
p0 0.00774 ± 7.931e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

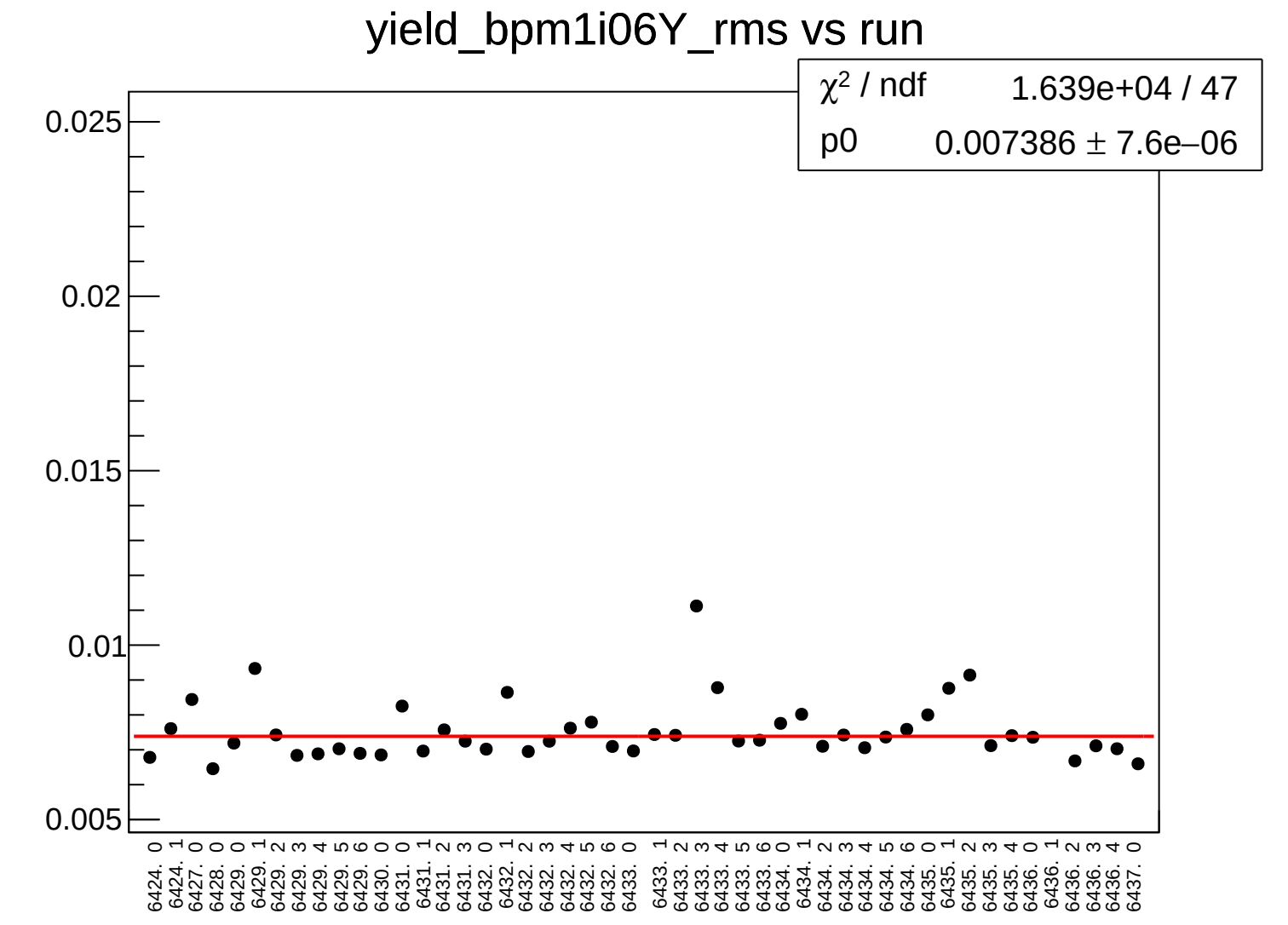

yield_bpm1i04Y_mean vs run
χ² / ndf 1.602e+06 / 47
p0 4.179 ± 8.388e−06
4.2
4.19
4.18
4.17
4.16
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −1261
Std Dev 1284
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

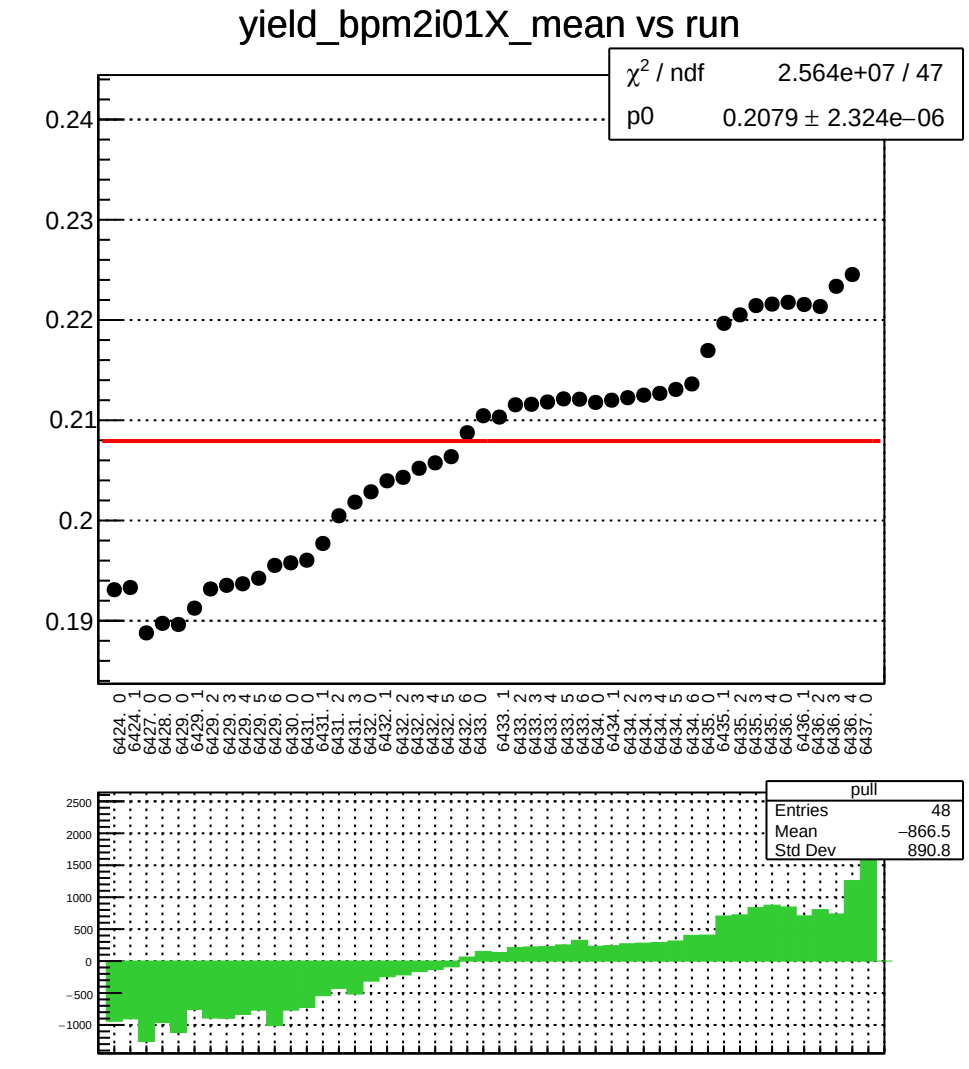

yield_bpm1i04Y_rms vs run
χ² / ndf 1457 / 47
p0 0.00581 ± 5.931e–06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

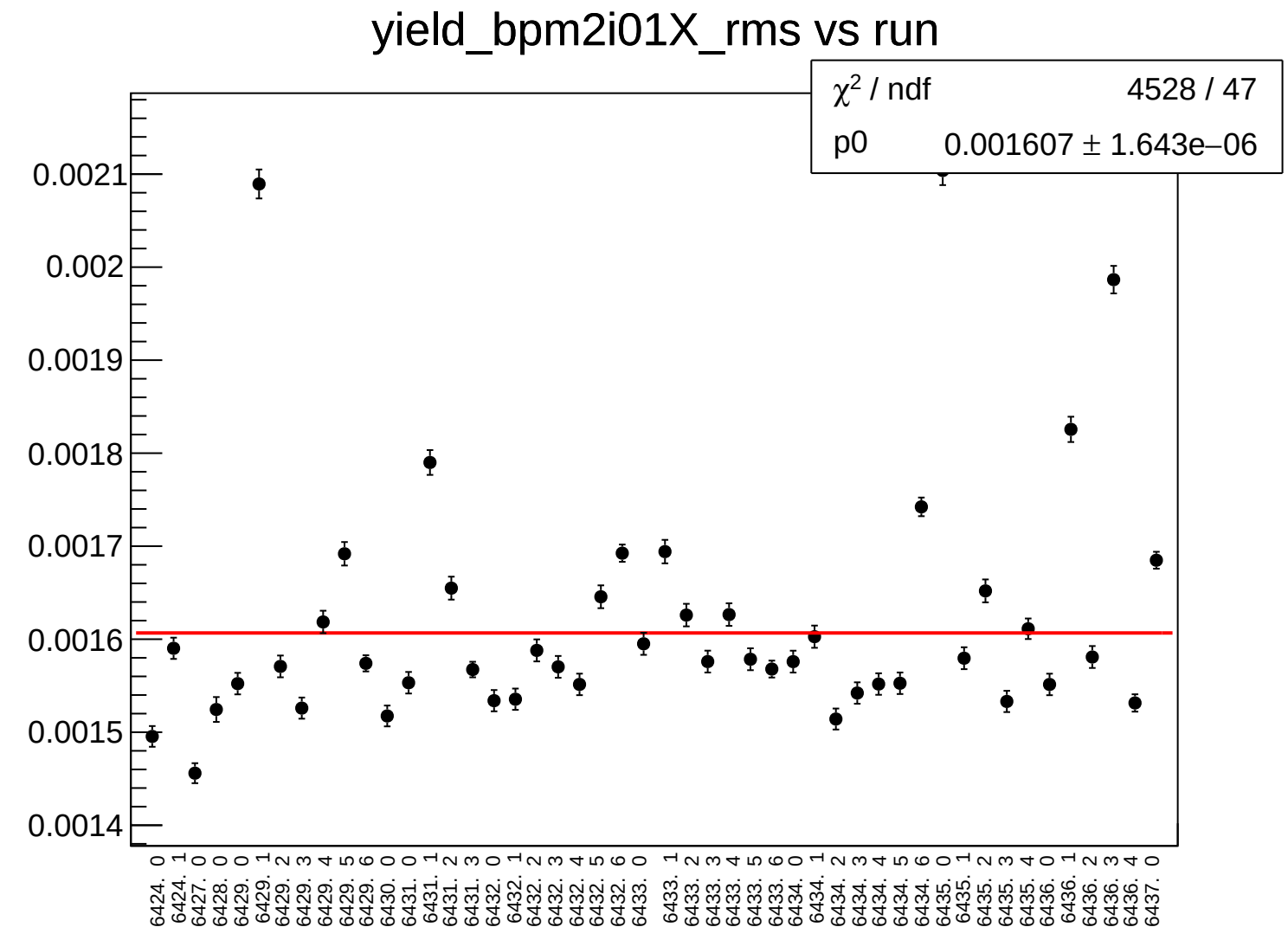

yield_bpm1i06X_mean vs run
χ² / ndf 3.263e+05 / 47
p0 1.215 ± 2.466e−05
1.27
1.26
1.25
1.24
1.23
1.22
1.21
1.2
1.19
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 67.86
Std Dev 78.61
300
250
200
150
100
50
0
−50
−100
pull1D
Entries 48
Mean −1.266
Std Dev 5.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

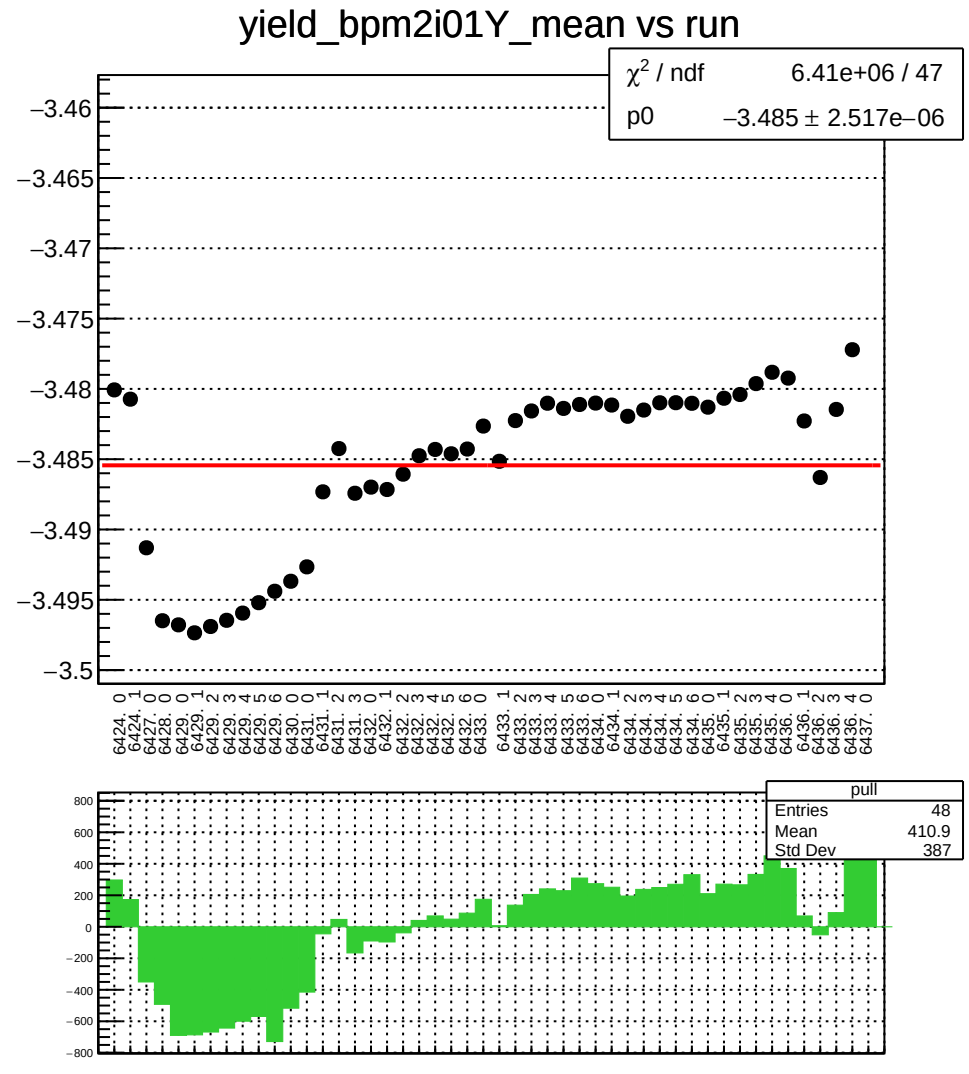

yield_bpm1i06X_rms vs run
χ² / ndf 5067 / 47
p0 0.01705 ± 1.744e–05
0.024
0.022
0.02
0.018
0.016
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

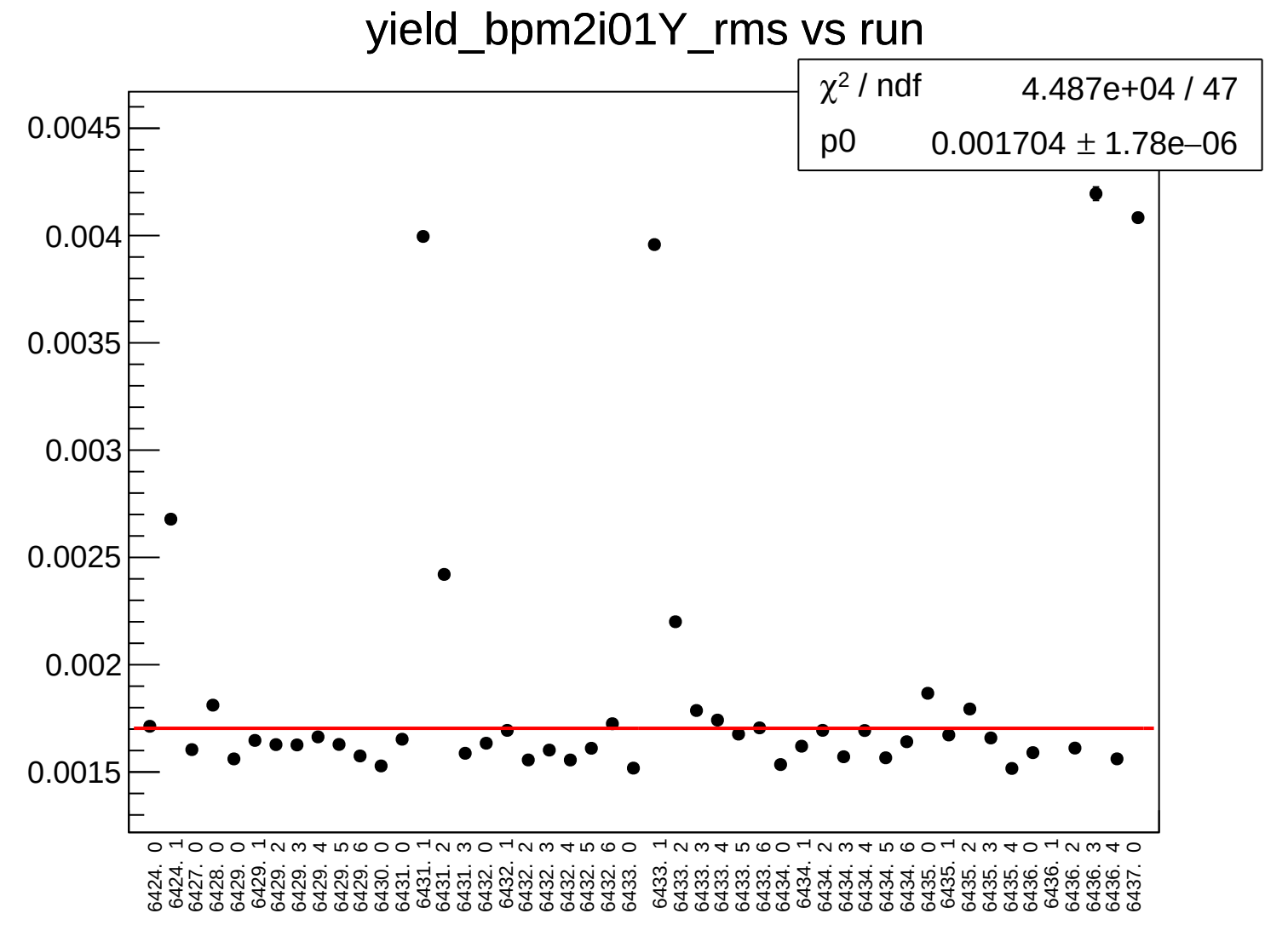

yield_bpm1i06Y_mean vs run
χ² / ndf 4.918e+06 / 47
p0 −0.5621 ± 1.075e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −291.8
Std Dev 312.6
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 48
Mean 2.325
Std Dev 3.801
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

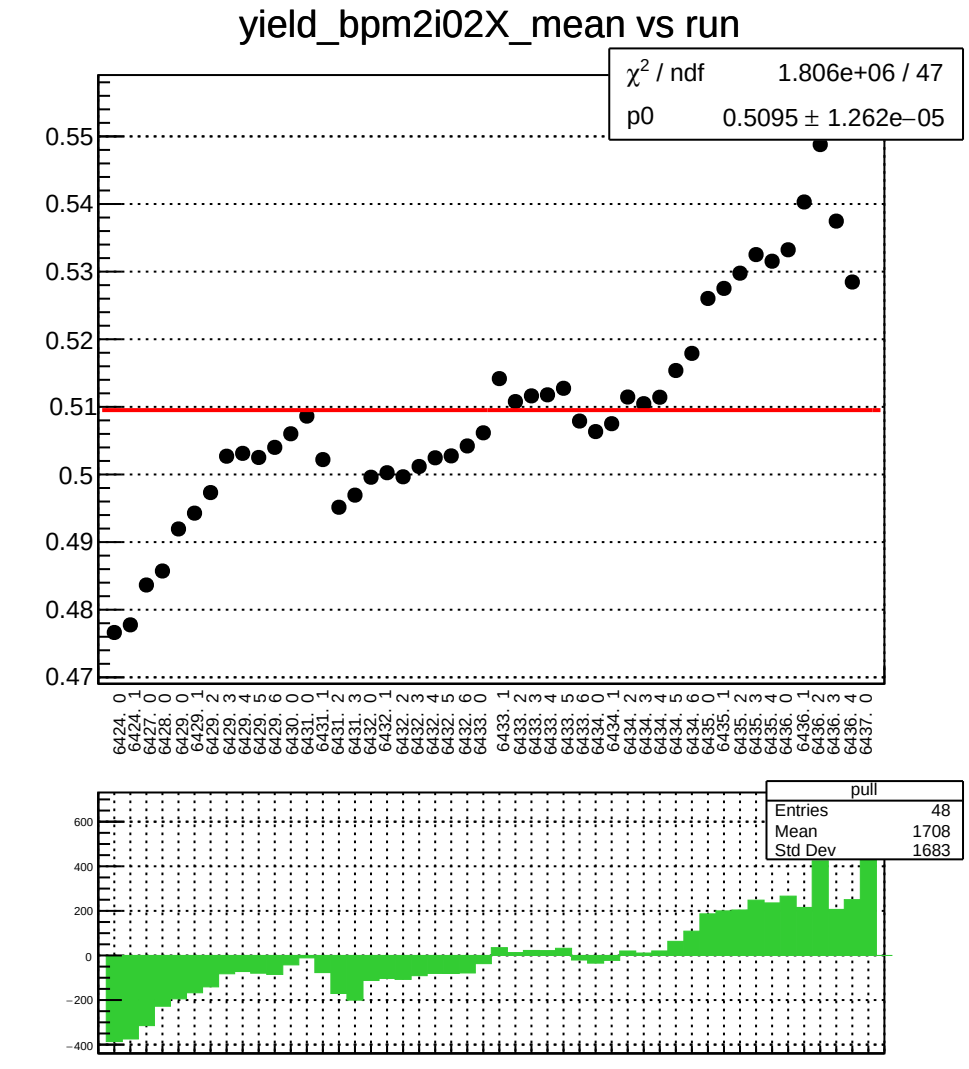

yield_bpm1i06Y_rms vs run
χ² / ndf 1.639e+04 / 47
p0 0.007386 ± 7.6e–06
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

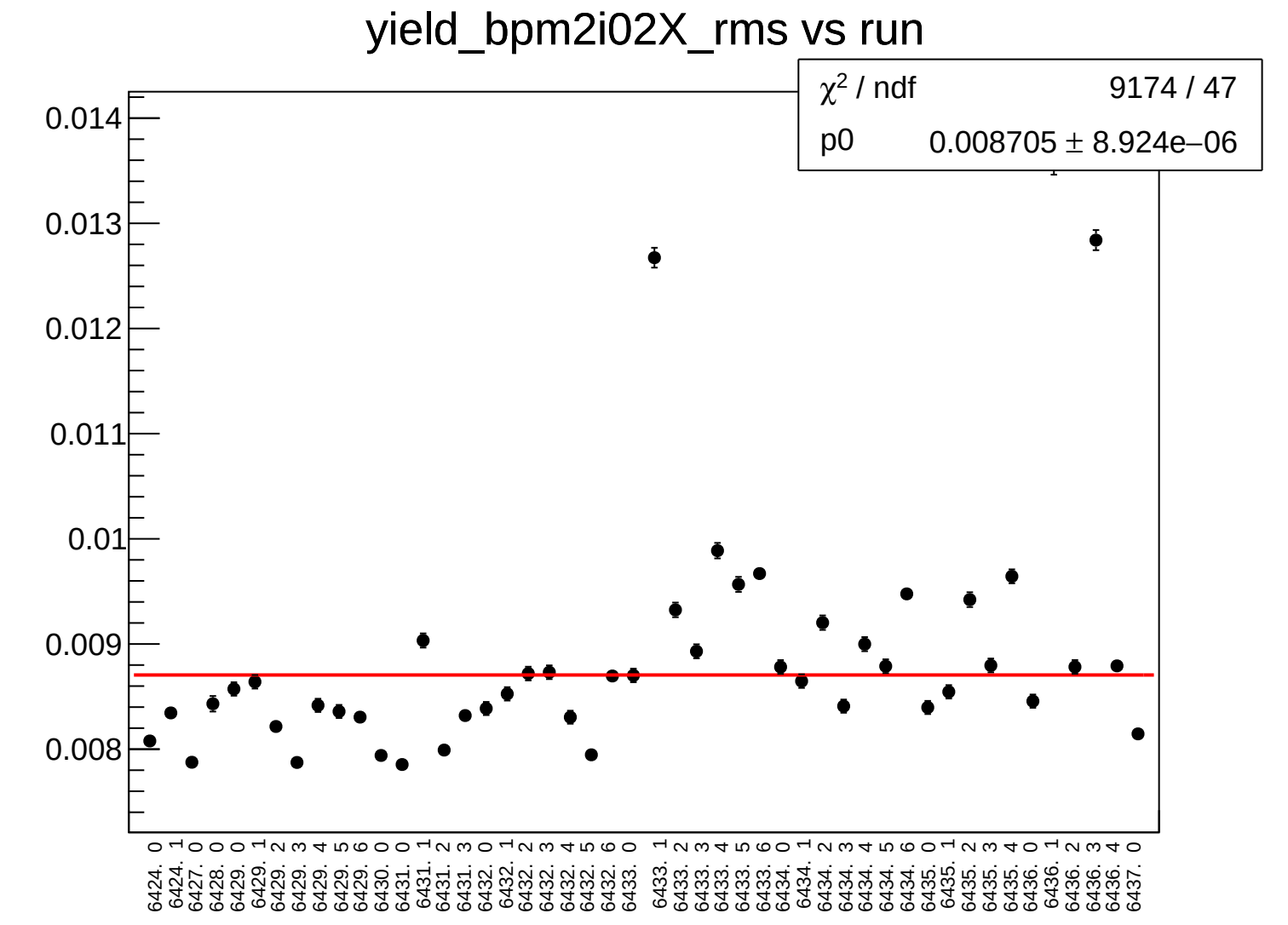

yield_bpm2i01X_mean vs run
χ² / ndf 2.564e+07 / 47
p0 0.2079 ± 2.324e−06
0.24
0.23
0.22
0.21
0.2
0.19
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −866.5
Std Dev 890.8
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

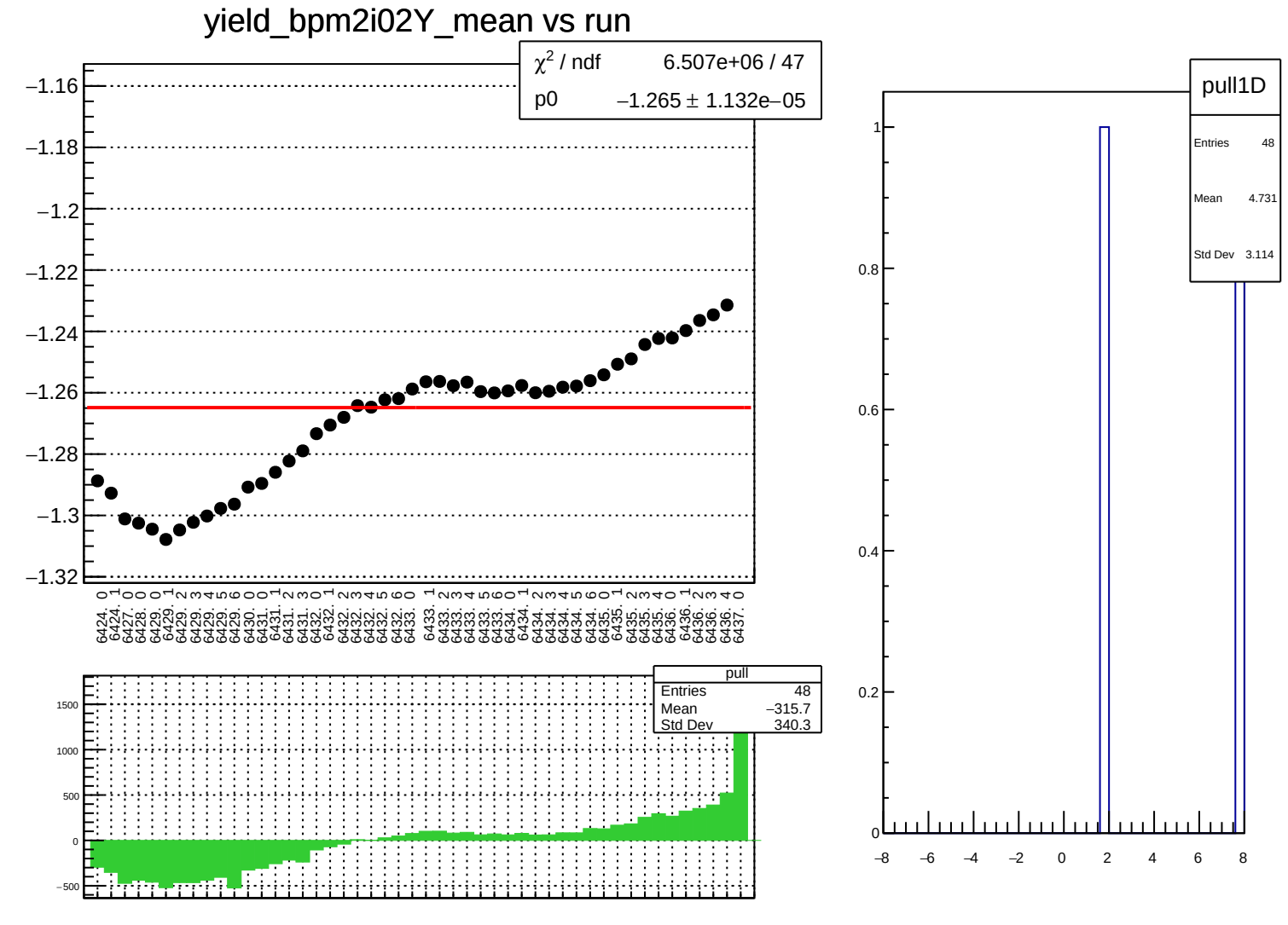

yield_bpm2i01X_rms vs run
χ² / ndf 4528 / 47
p0 0.001607 ± 1.643e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

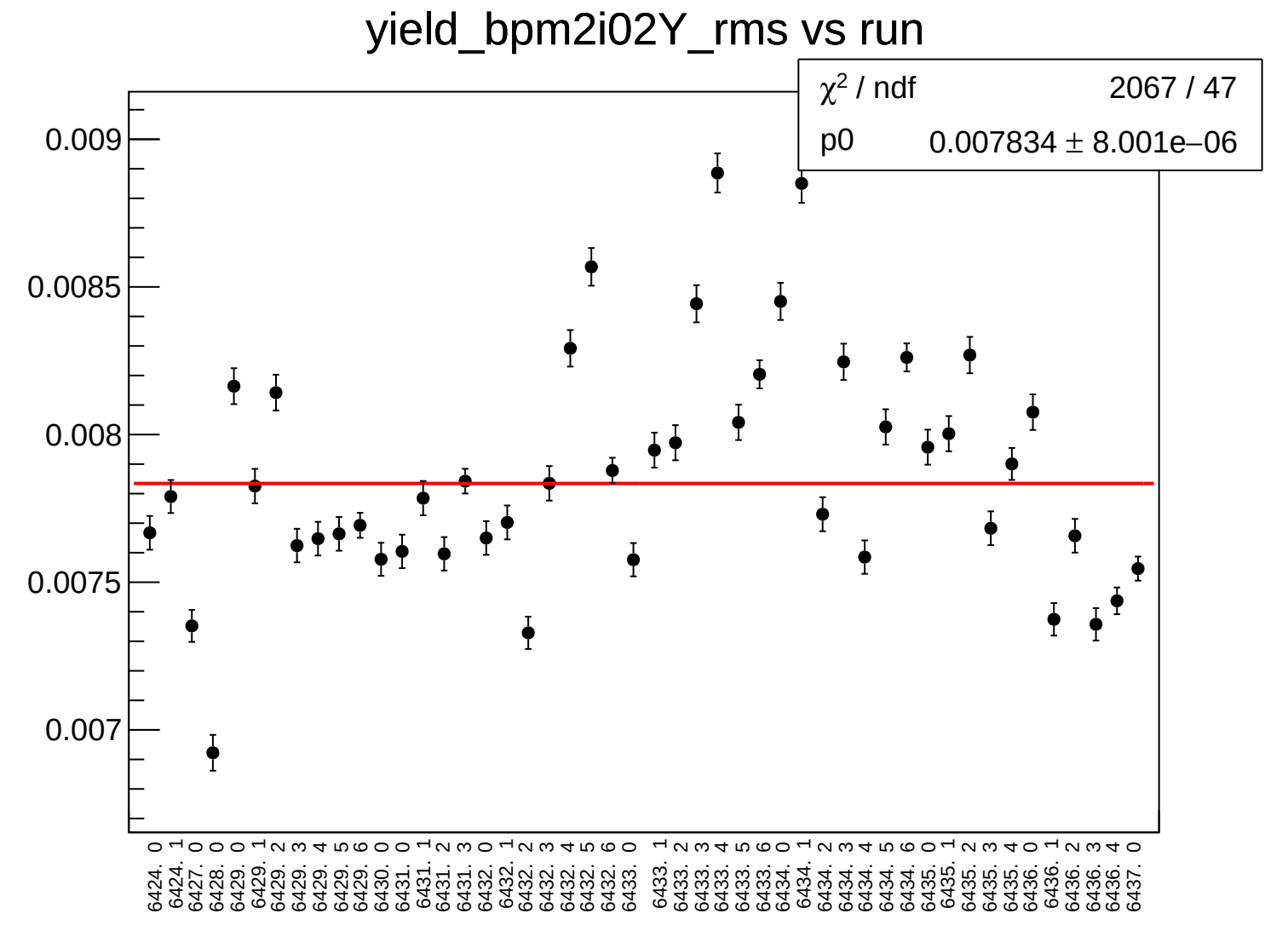

yield_bpm2i01Y_mean vs run
χ² / ndf 6.41e+06 / 47
p0 −3.485 ± 2.517e−06
−3.46
−3.465
−3.47
−3.475
−3.48
−3.485
−3.49
−3.495
−3.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 410.9
Std Dev 387
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 48
Mean 6.903
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

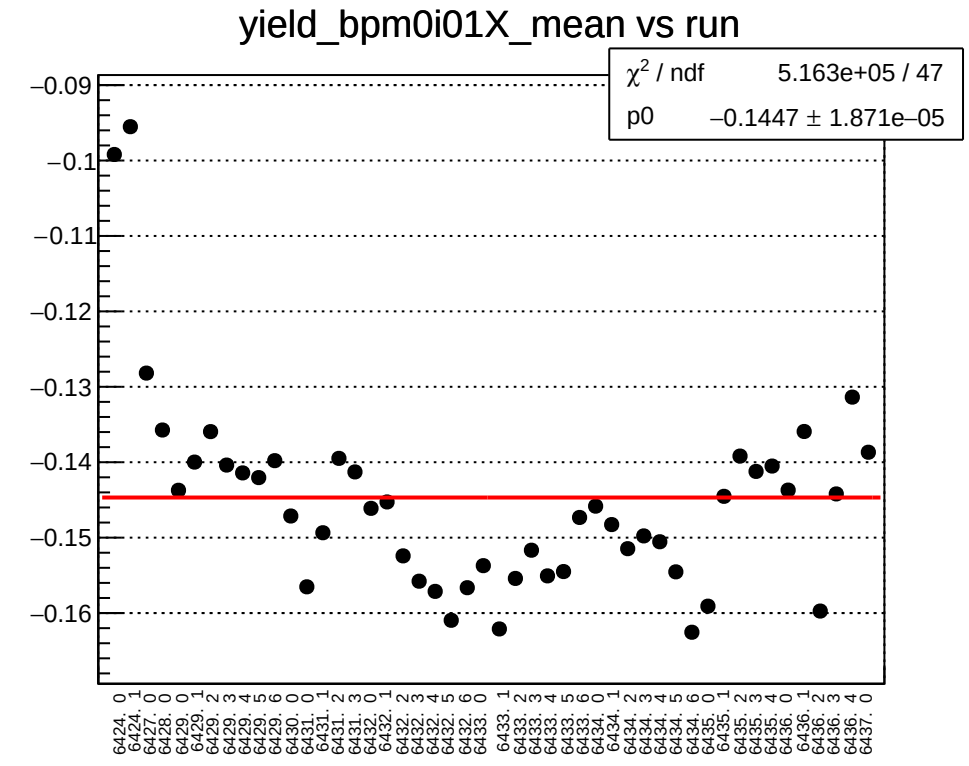

yield_bpm2i01Y_rms vs run
χ² / ndf 4.487e+04 / 47
p0 0.001704 ± 1.78e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

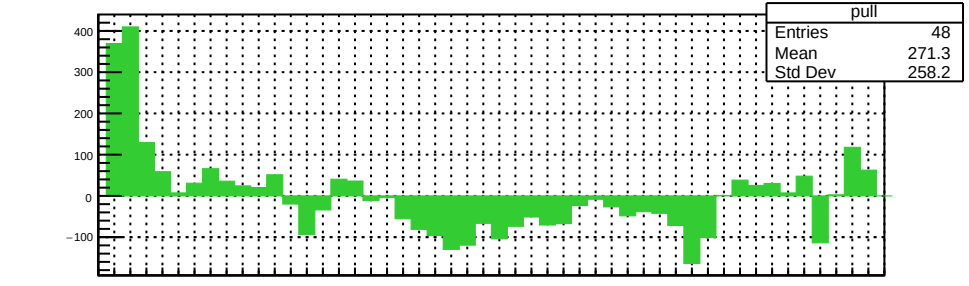

yield_bpm2i02X_mean vs run
χ² / ndf 1.806e+06 / 47
p0 0.5095 ± 1.262e−05
0.55
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 1708
Std Dev 1683
600
400
200
0
−200
−400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

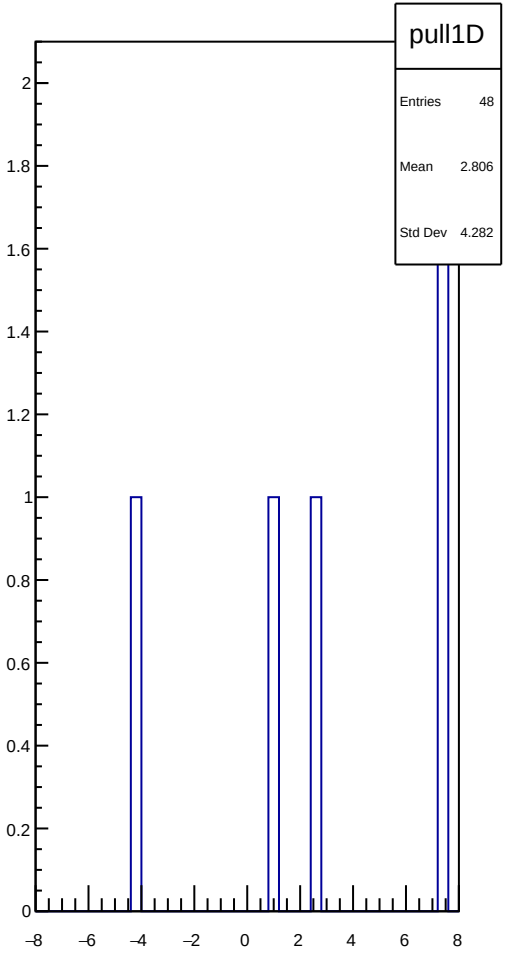

yield_bpm2i02X_rms vs run
χ² / ndf 9174 / 47
p0 0.008705 ± 8.924e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

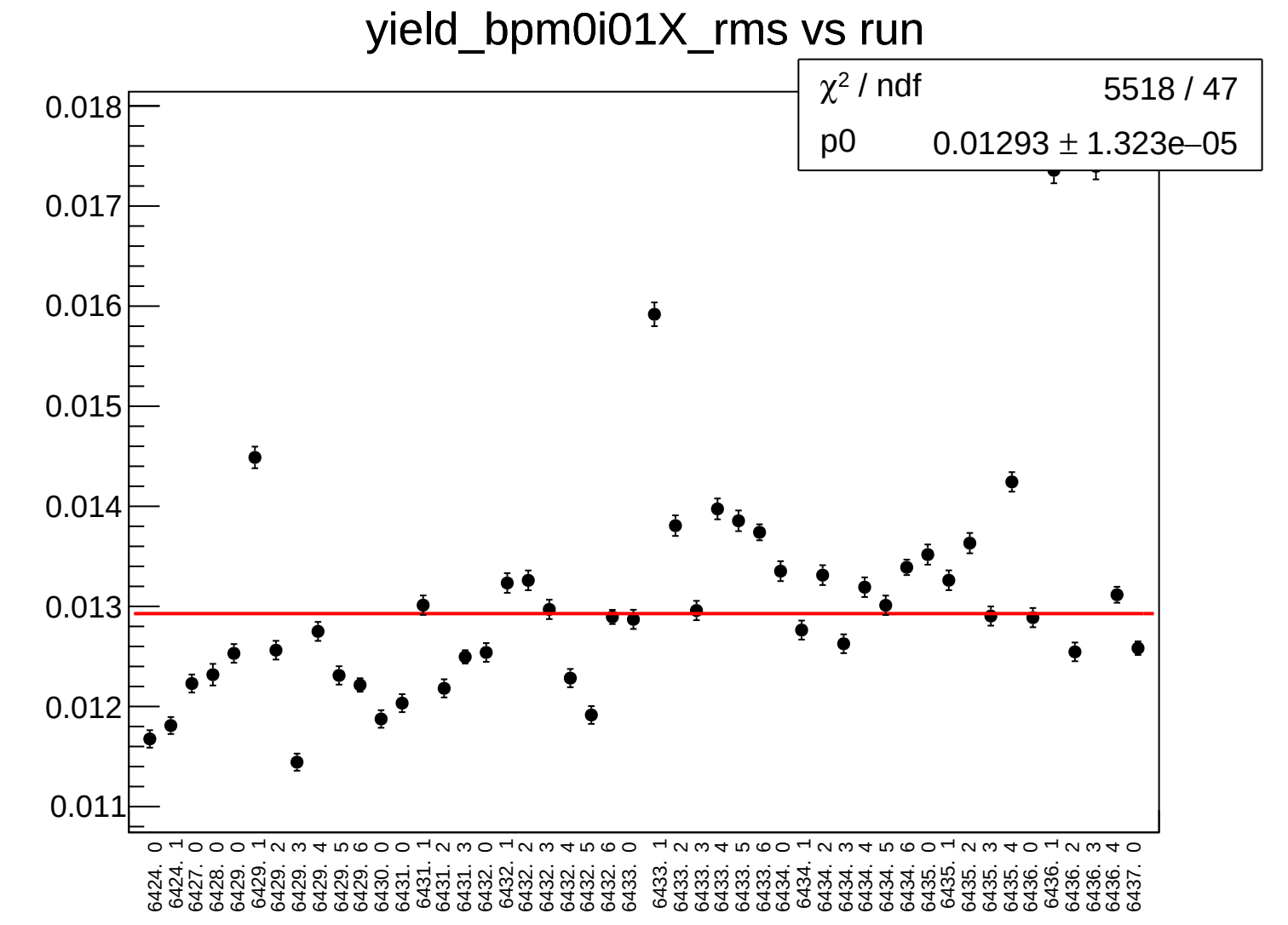

yield_bpm2i02Y_mean vs run
χ² / ndf 6.507e+06 / 47
p0 −1.265 ± 1.132e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −315.7
Std Dev 340.3
1500
1000
500
0
−500
pull1D
Entries 48
Mean 4.731
Std Dev 3.114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

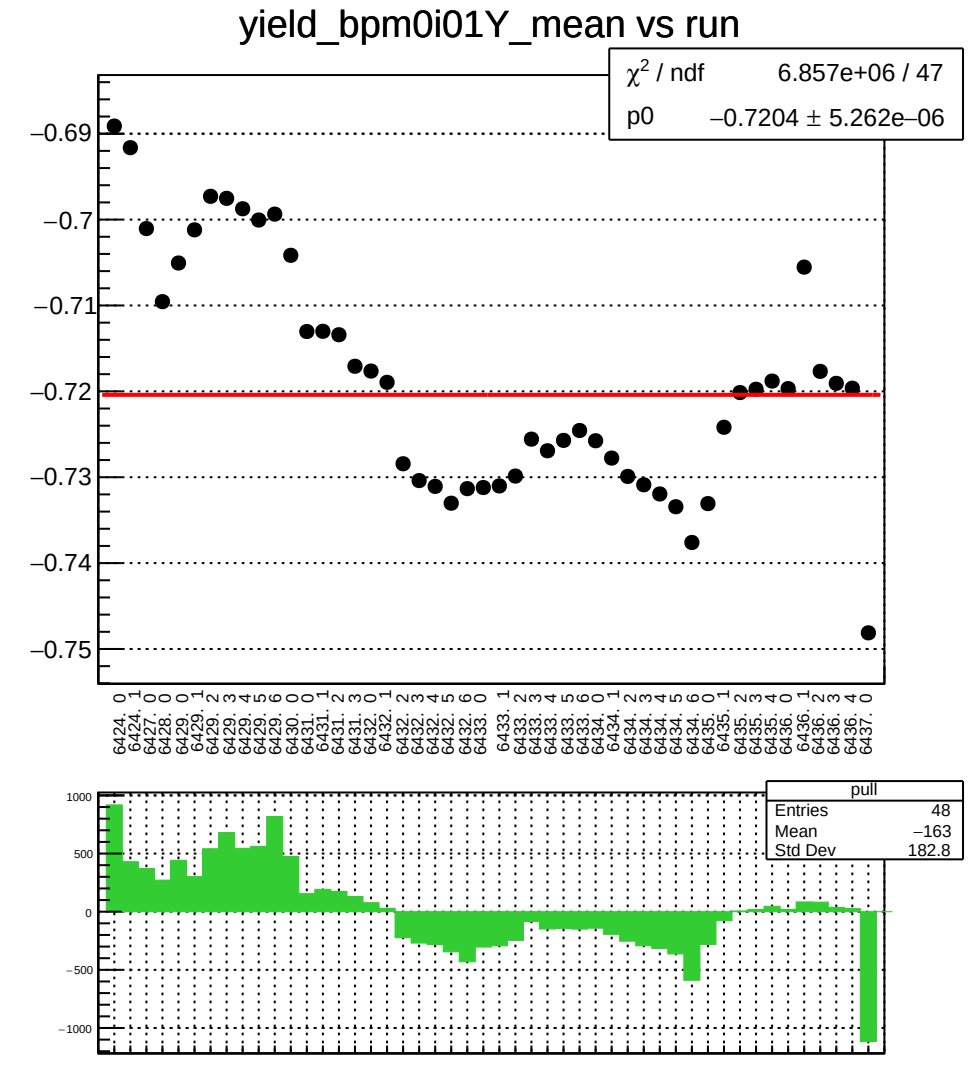

yield_bpm2i02Y_rms vs run
χ² / ndf 2067 / 47
p0 0.007834 ± 8.001e−06
0.009
0.0085
0.008
0.0075
0.007
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

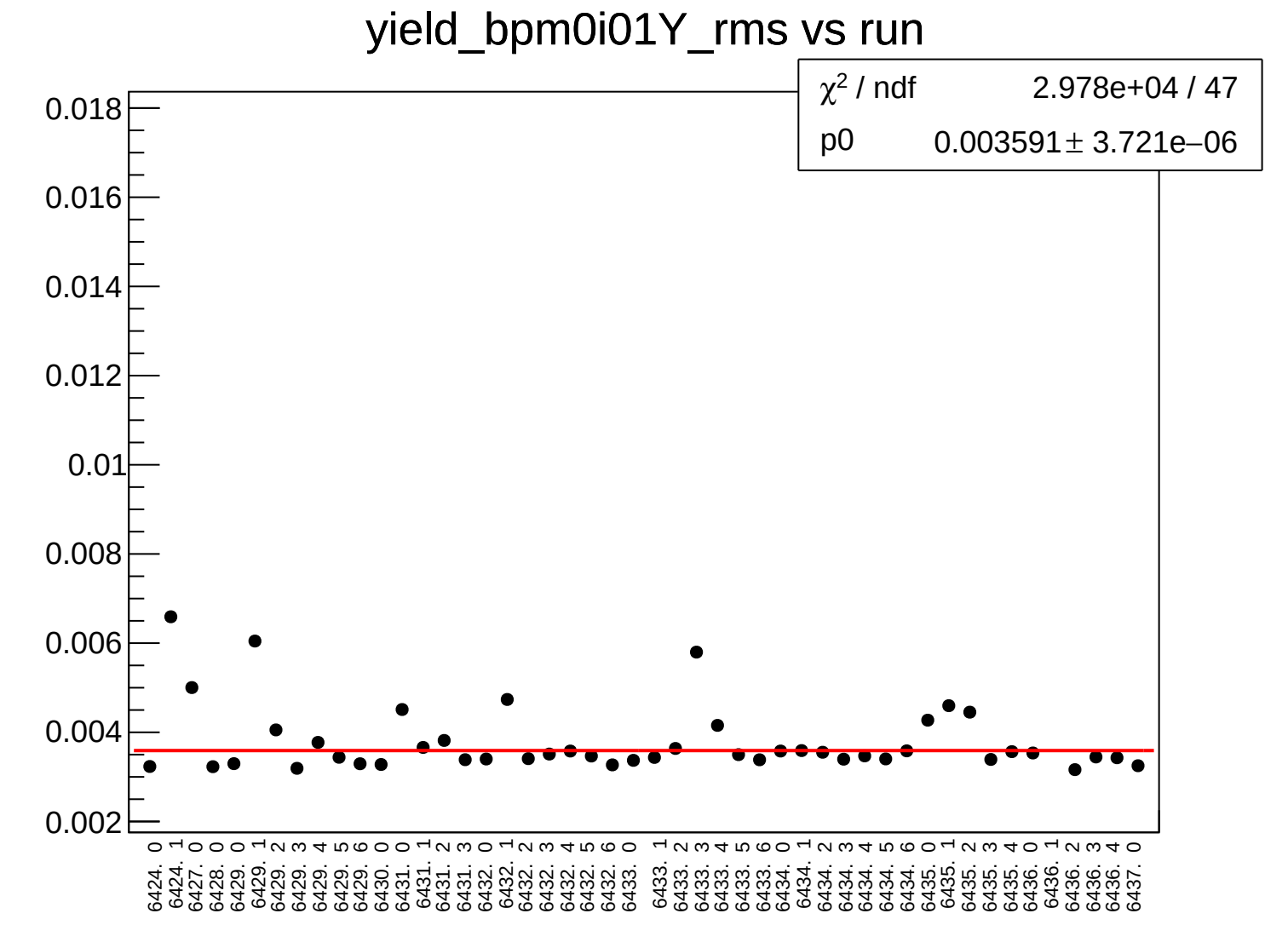

yield_bpm0i01X_mean vs run
χ² / ndf 5.163e+05 / 47
p0 −0.1447 ± 1.871e−05
−0.09
−0.1
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

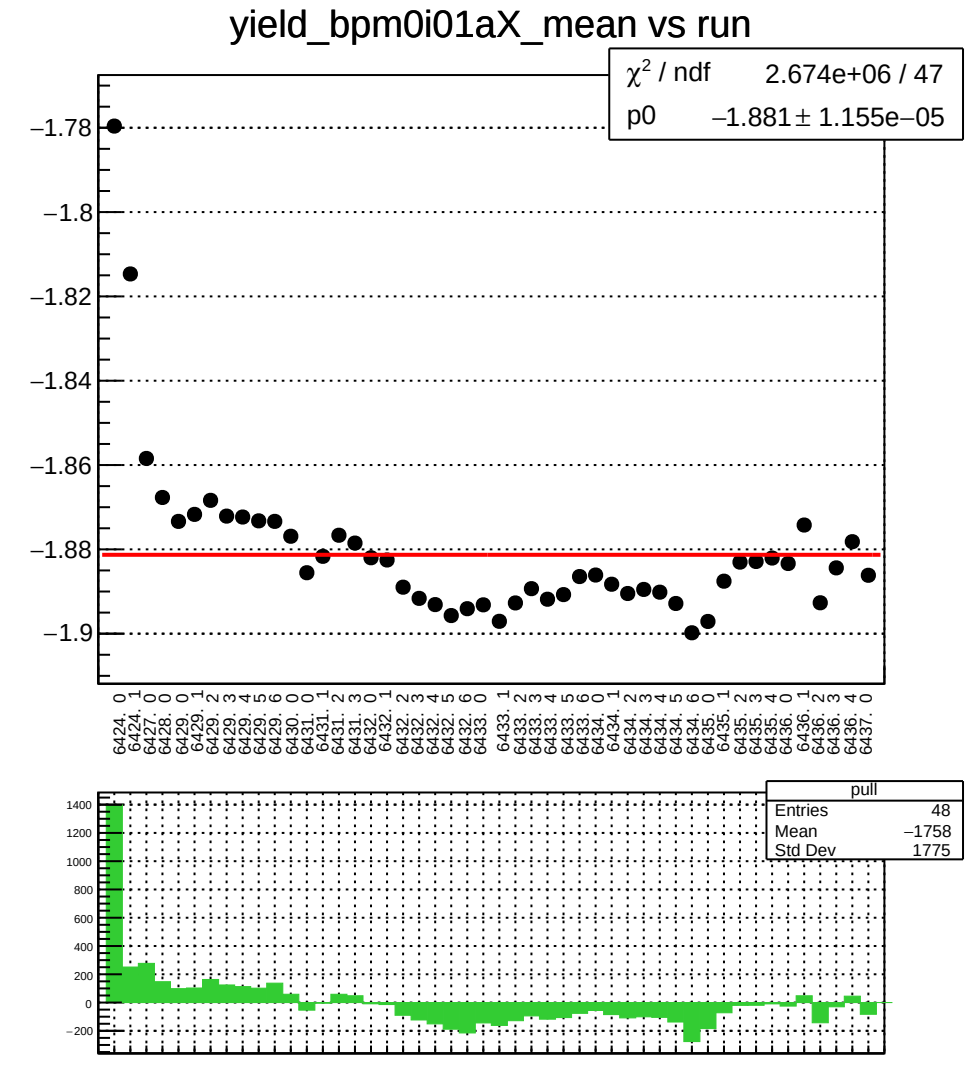

pull
Entries 48
Mean 271.3
Std Dev 258.2
400
300
200
100
0
−100

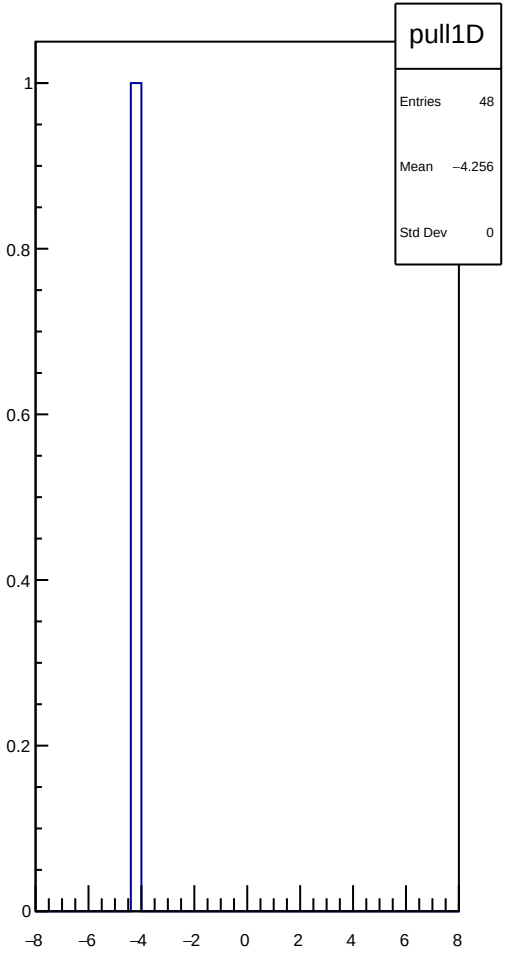

pull1D
Entries 48
Mean 2.806
Std Dev 4.282
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

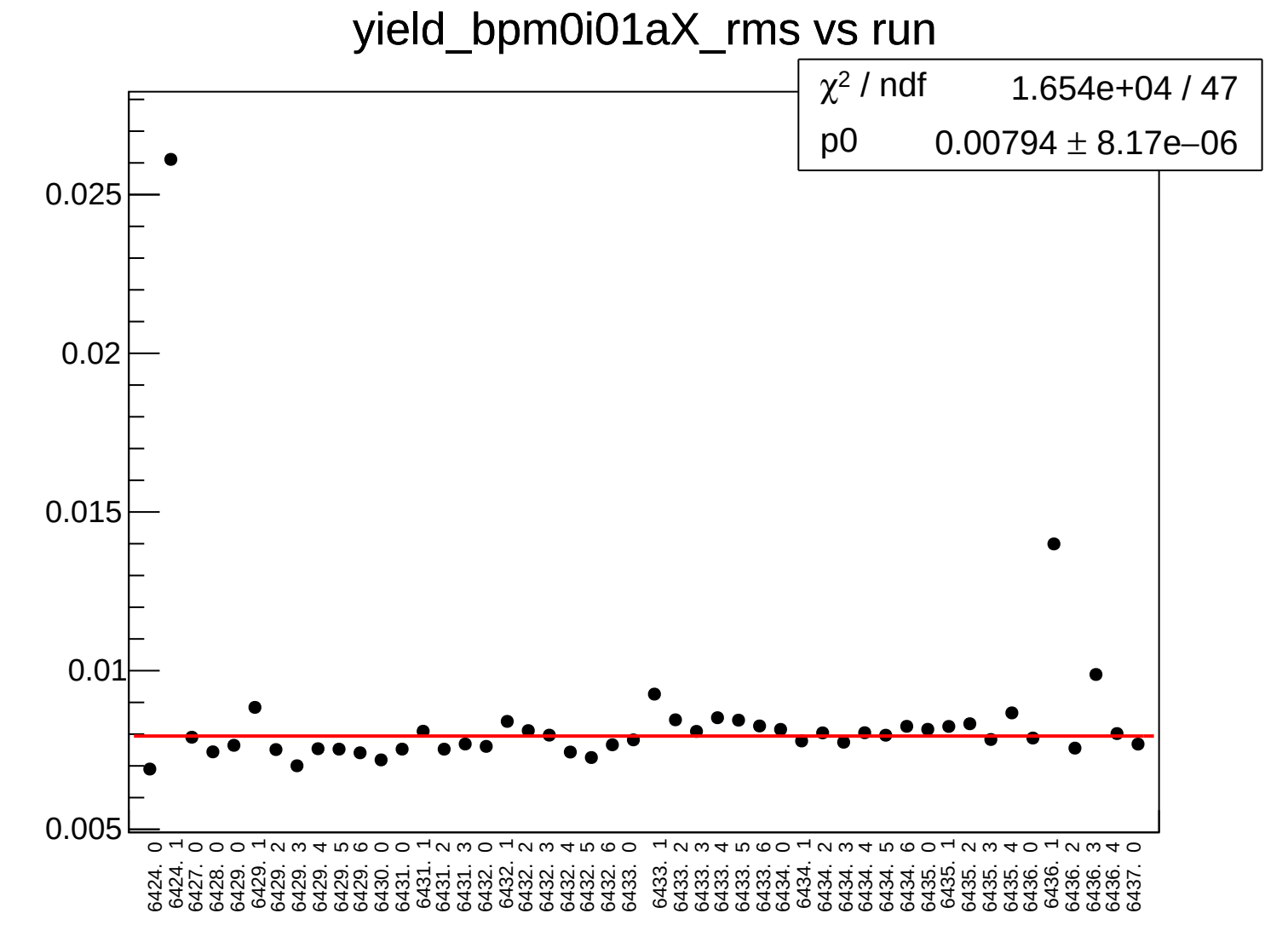

yield_bpm0i01X_rms vs run
χ² / ndf 5518 / 47
p0 0.01293 ± 1.323e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

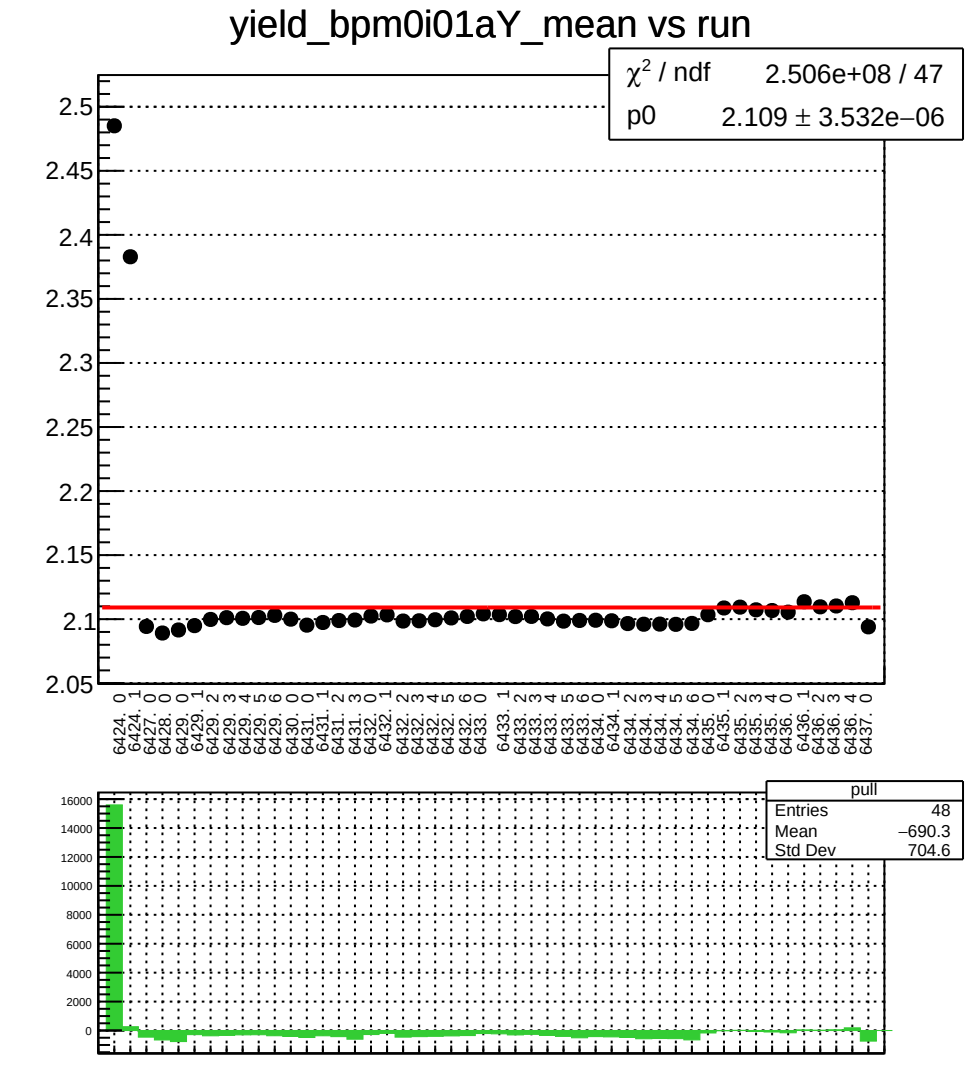

yield_bpm0i01Y_mean vs run
χ² / ndf 6.857e+06 / 47
p0 −0.7204 ± 5.262e−06
−0.69
−0.7
−0.71
−0.72
−0.73
−0.74
−0.75
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
1000
500
0
−500
−1000
pull
Entries 48
Mean −163
Std Dev 182.8
pull1D
Entries 48
Mean 5.685
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

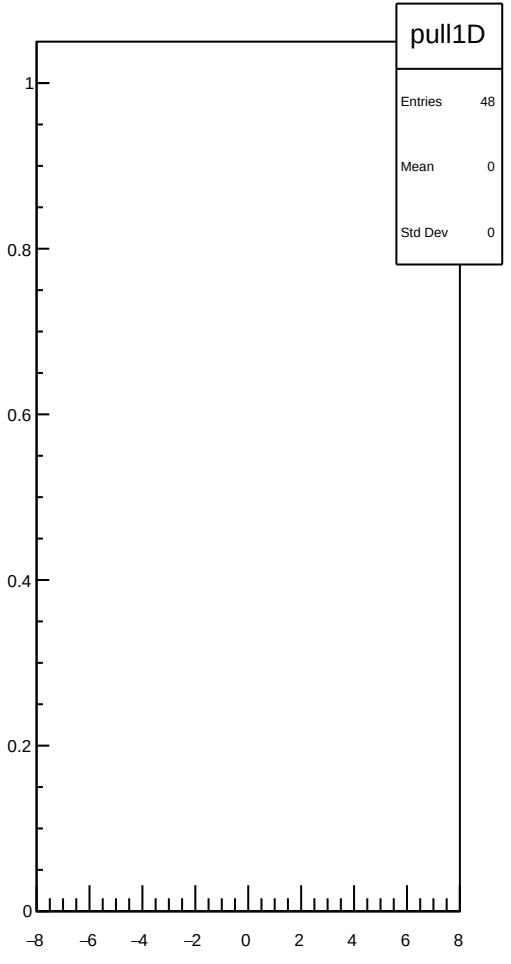

yield_bpm0i01Y_rms vs run
χ² / ndf 2.978e+04 / 47
p0 0.003591 ± 3.721e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

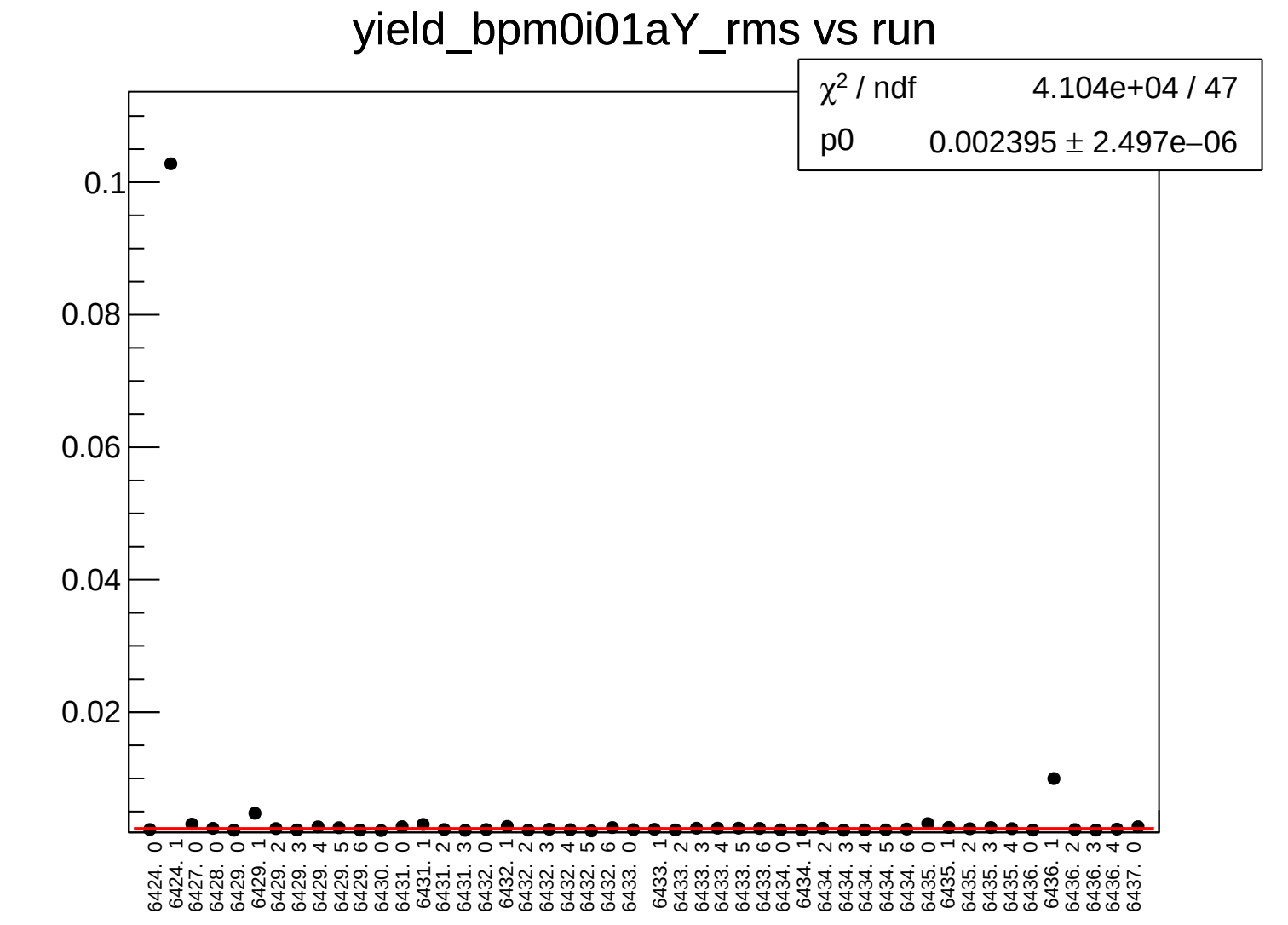

yield_bpm0i01aX_mean vs run
χ² / ndf 2.674e+06 / 47
p0 −1.881 ± 1.155e−05
−1.78
−1.8
−1.82
−1.84
−1.86
−1.88
−1.9
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −1758
Std Dev 1775
1400
1200
1000
800
600
400
200
0
−200

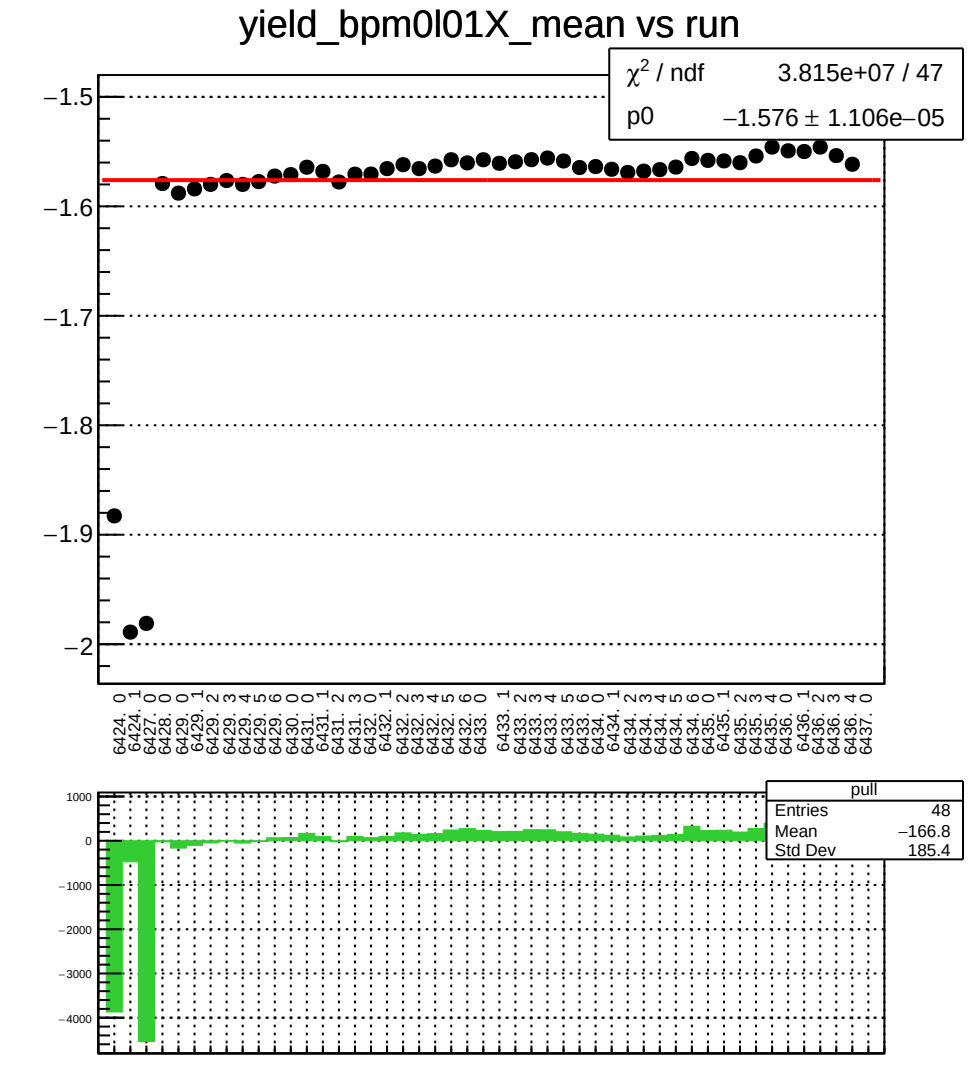

pull1D
Entries 48
Mean −4.256
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

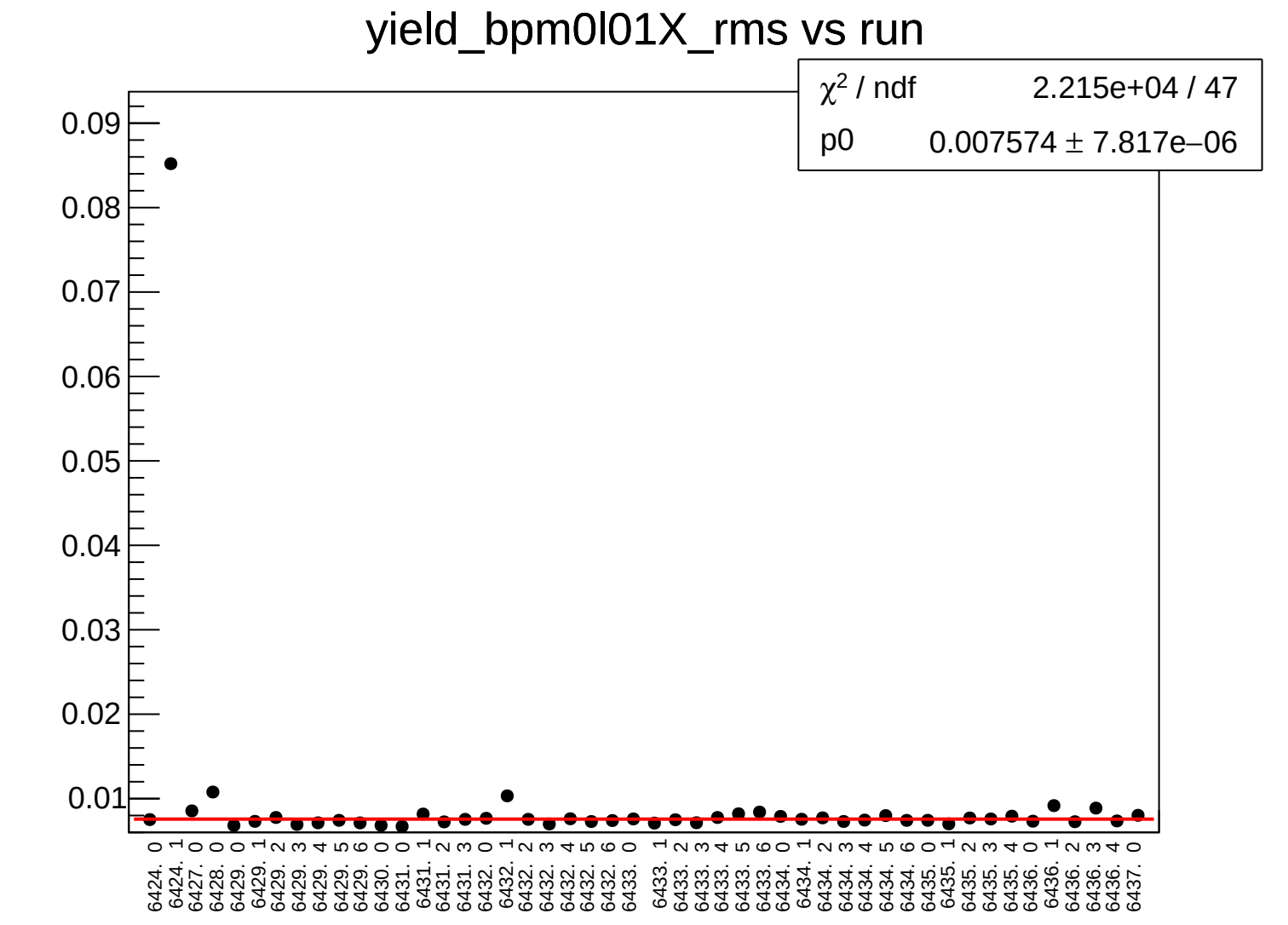

yield_bpm0i01aX_rms vs run
χ² / ndf 1.654e+04 / 47
p0 0.00794 ± 8.17e–06
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

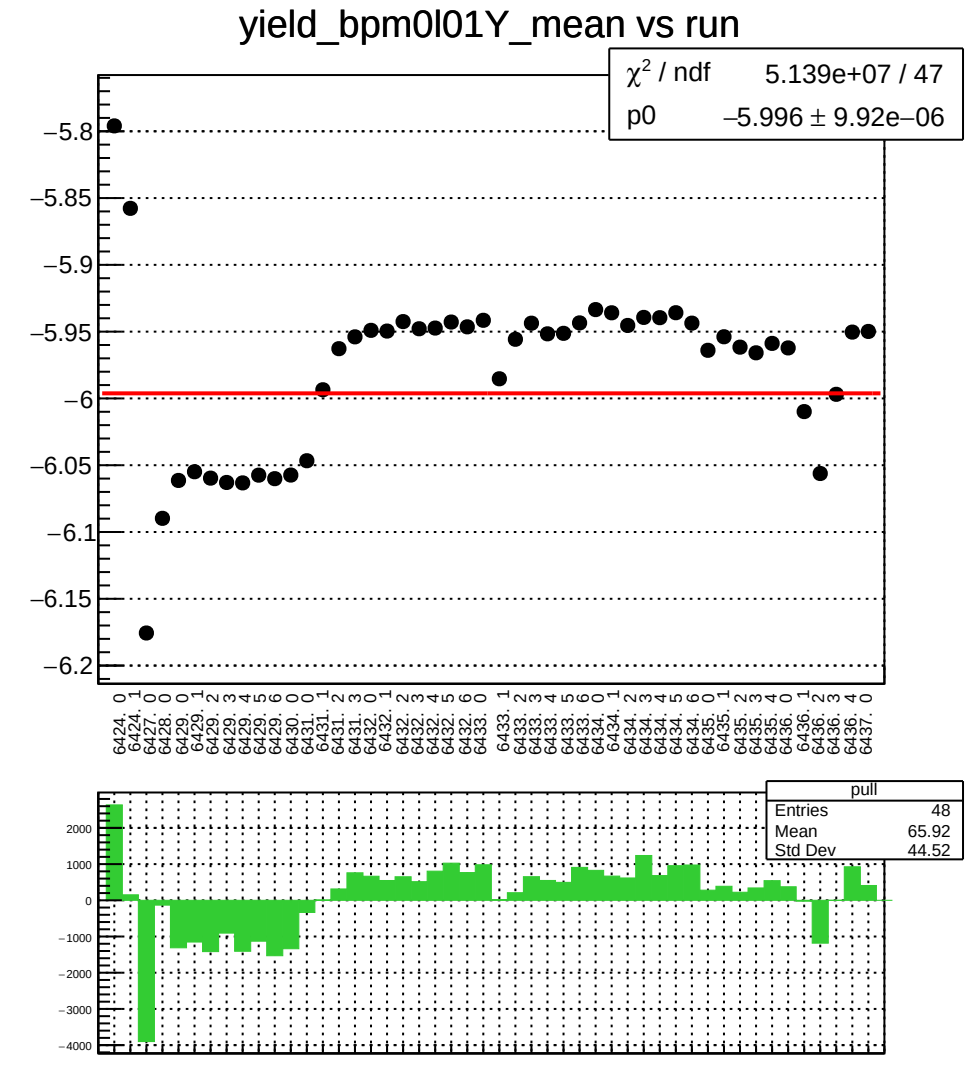

yield_bpm0i01aY_mean vs run
χ² / ndf 2.506e+08 / 47
p0 2.109 ± 3.532e−06
pull
Entries 48
Mean −690.3
Std Dev 704.6

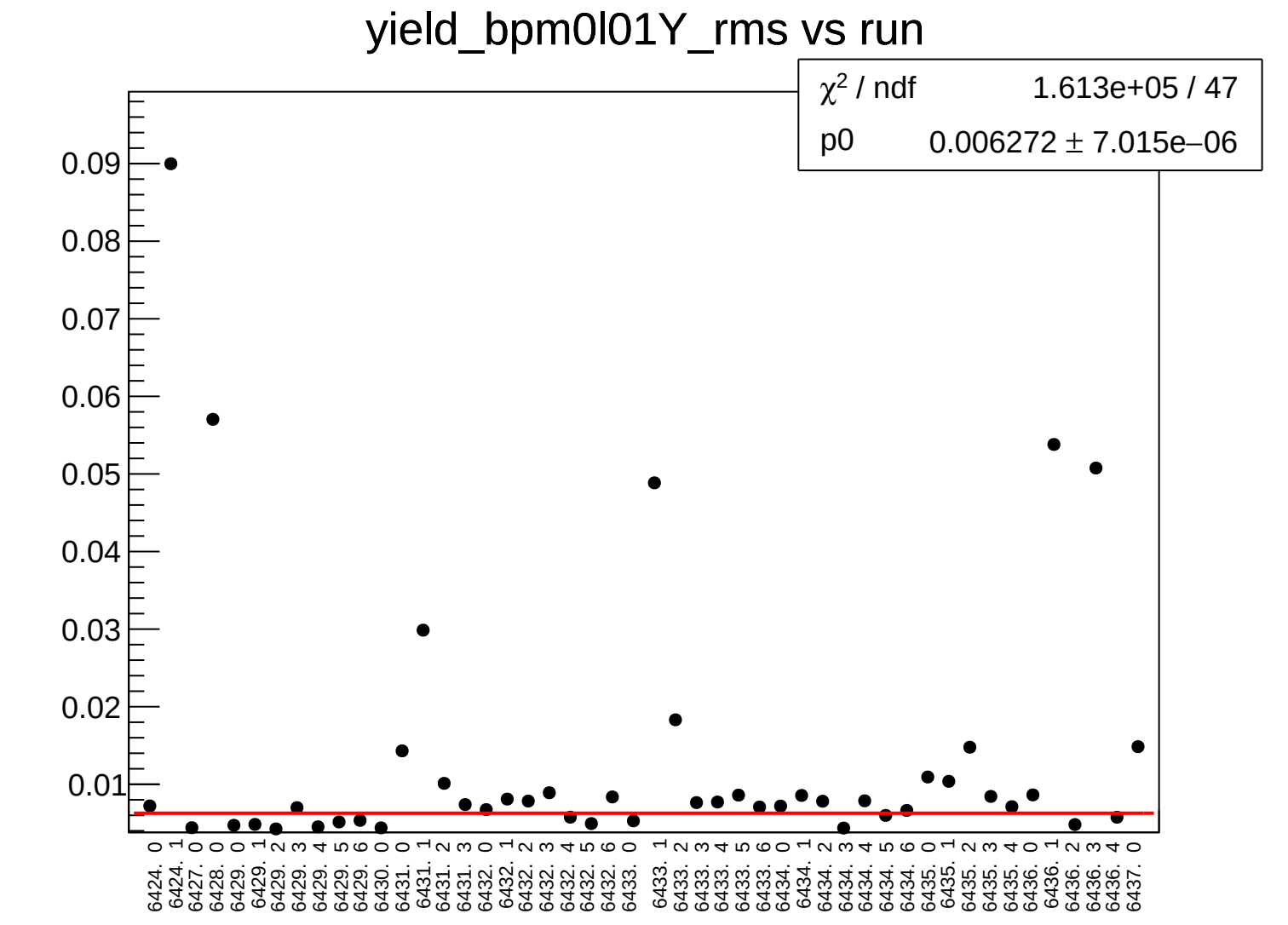

pull1D
Entries 48
Mean 0
Std Dev 0

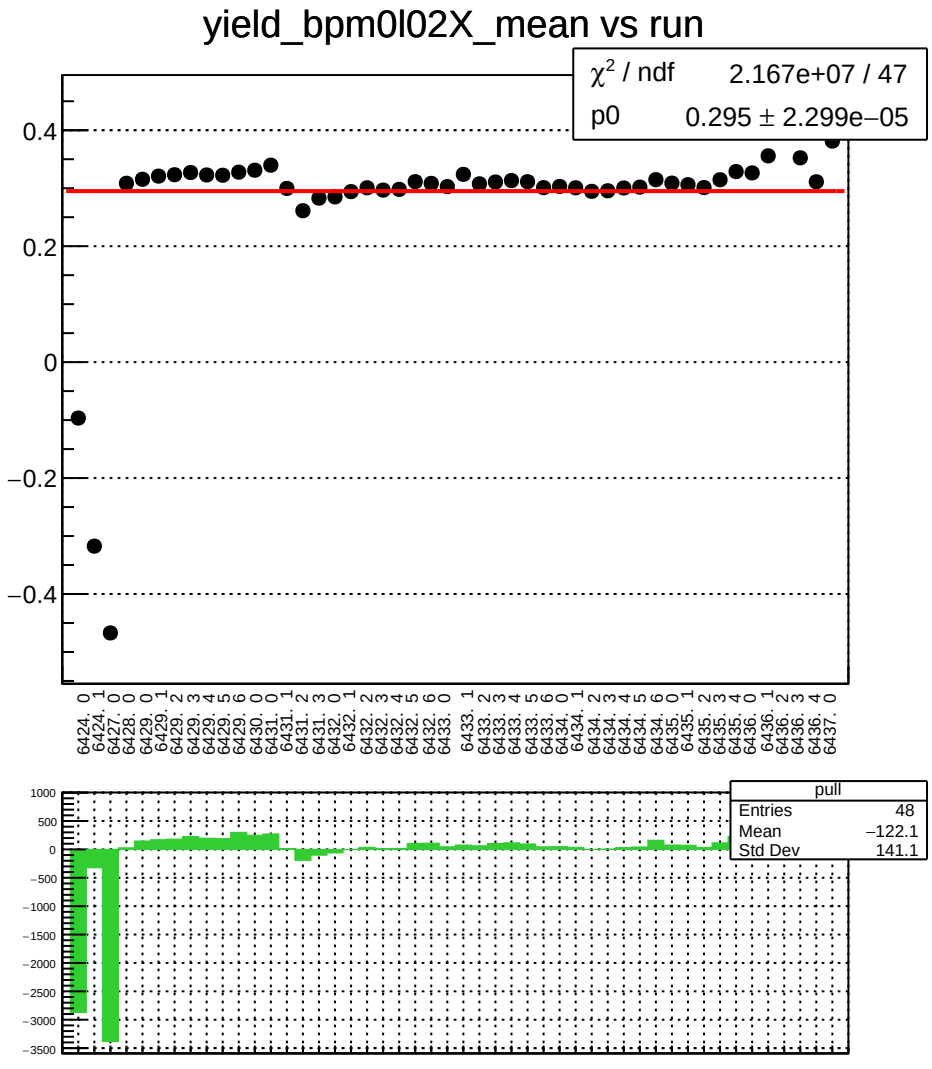

yield_bpm0i01aY_rms vs run
χ² / ndf 4.104e+04 / 47
p0 0.002395 ± 2.497e−06
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

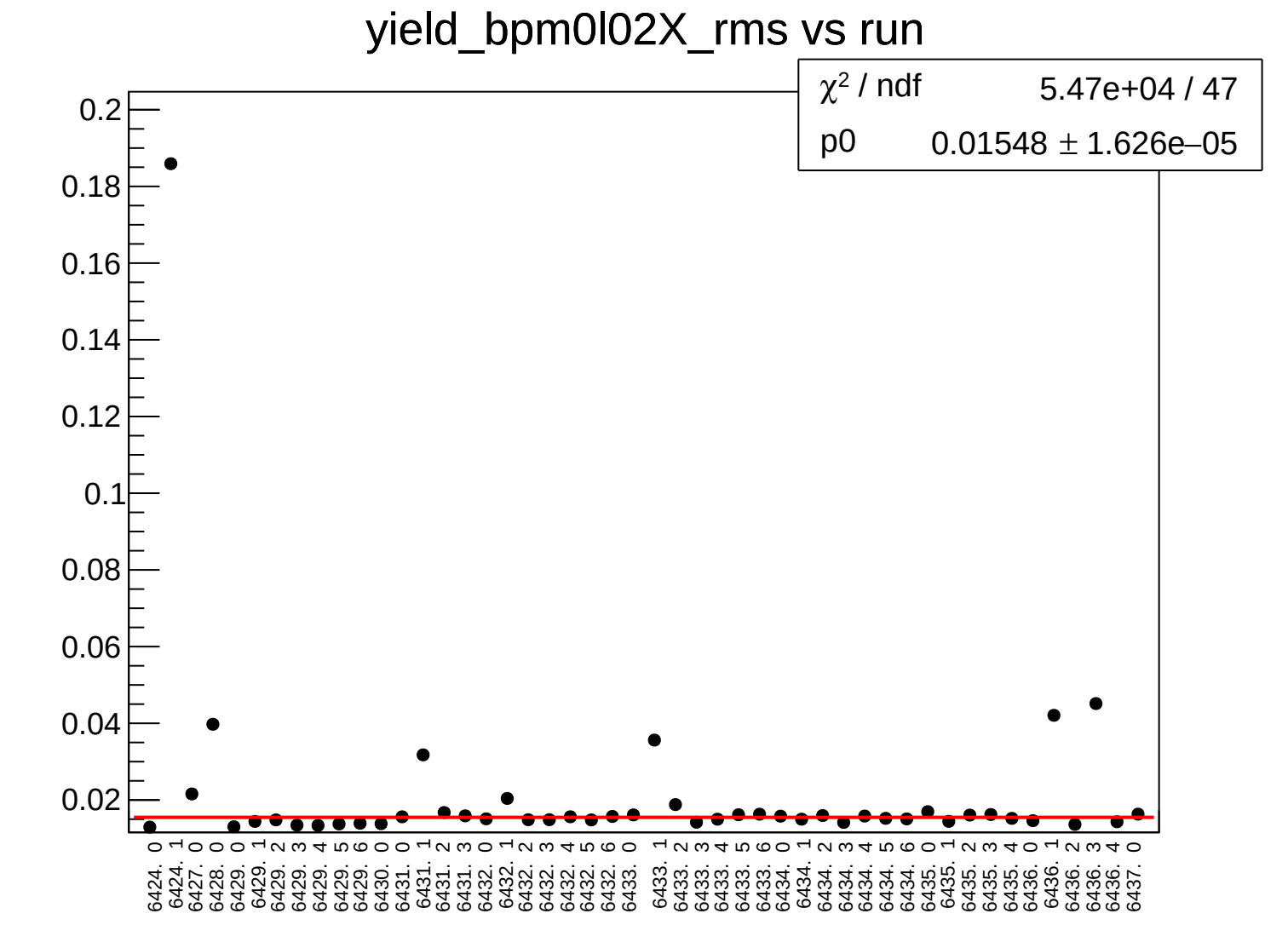

yield_bpm0l01X_mean vs run
χ² / ndf 3.815e+07 / 47
p0 −1.576 ± 1.106e−05
−1.5
−1.6
−1.7
−1.8
−1.9
−2
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −166.8
Std Dev 185.4
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 48
Mean −4.989
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

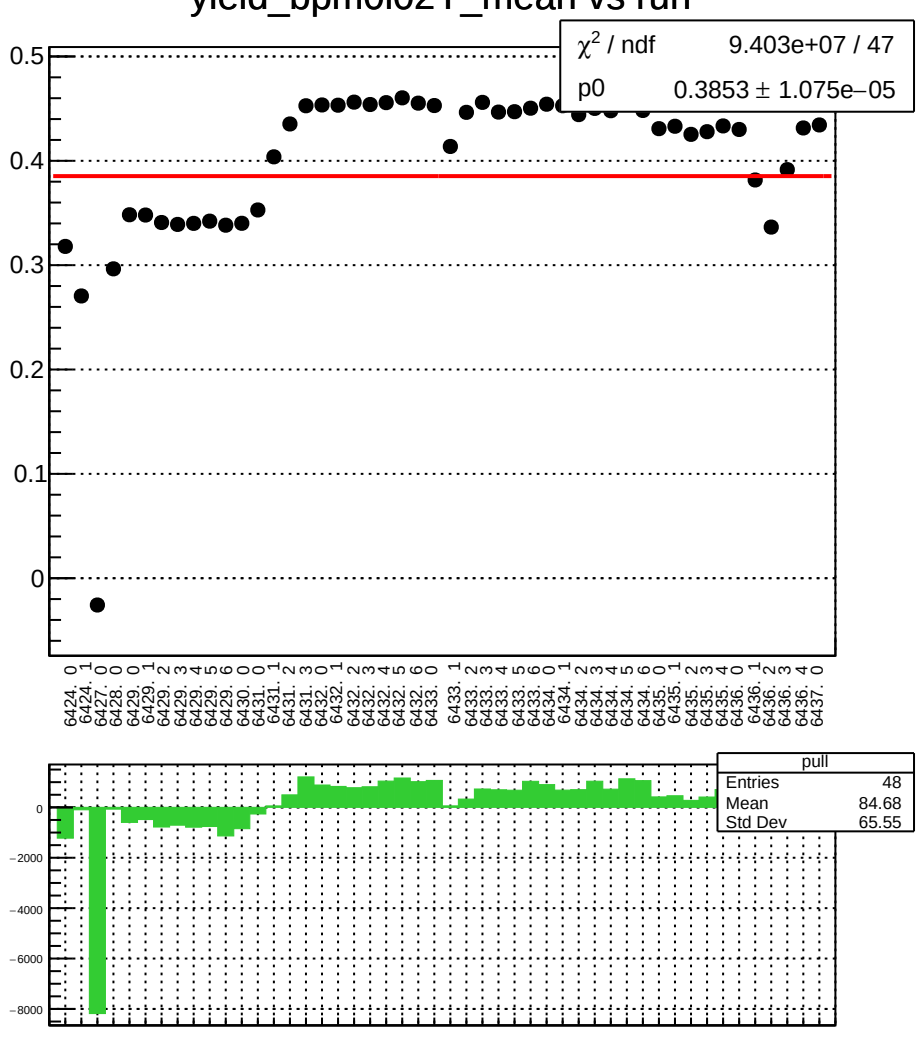

yield_bpm0l01X_rms vs run
χ² / ndf 2.215e+04 / 47
p0 0.007574 ± 7.817e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

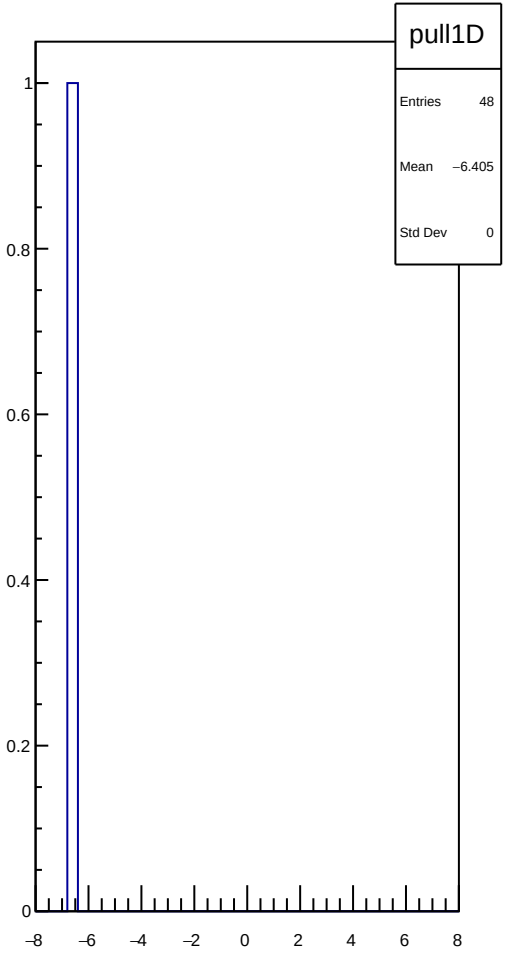

yield_bpm0l01Y_mean vs run
χ² / ndf 5.139e+07 / 47
p0 −5.996 ± 9.92e−06
−5.8
−5.85
−5.9
−5.95
−6
−6.05
−6.1
−6.15
−6.2
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 65.92
Std Dev 44.52
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 48
Mean −1.357
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

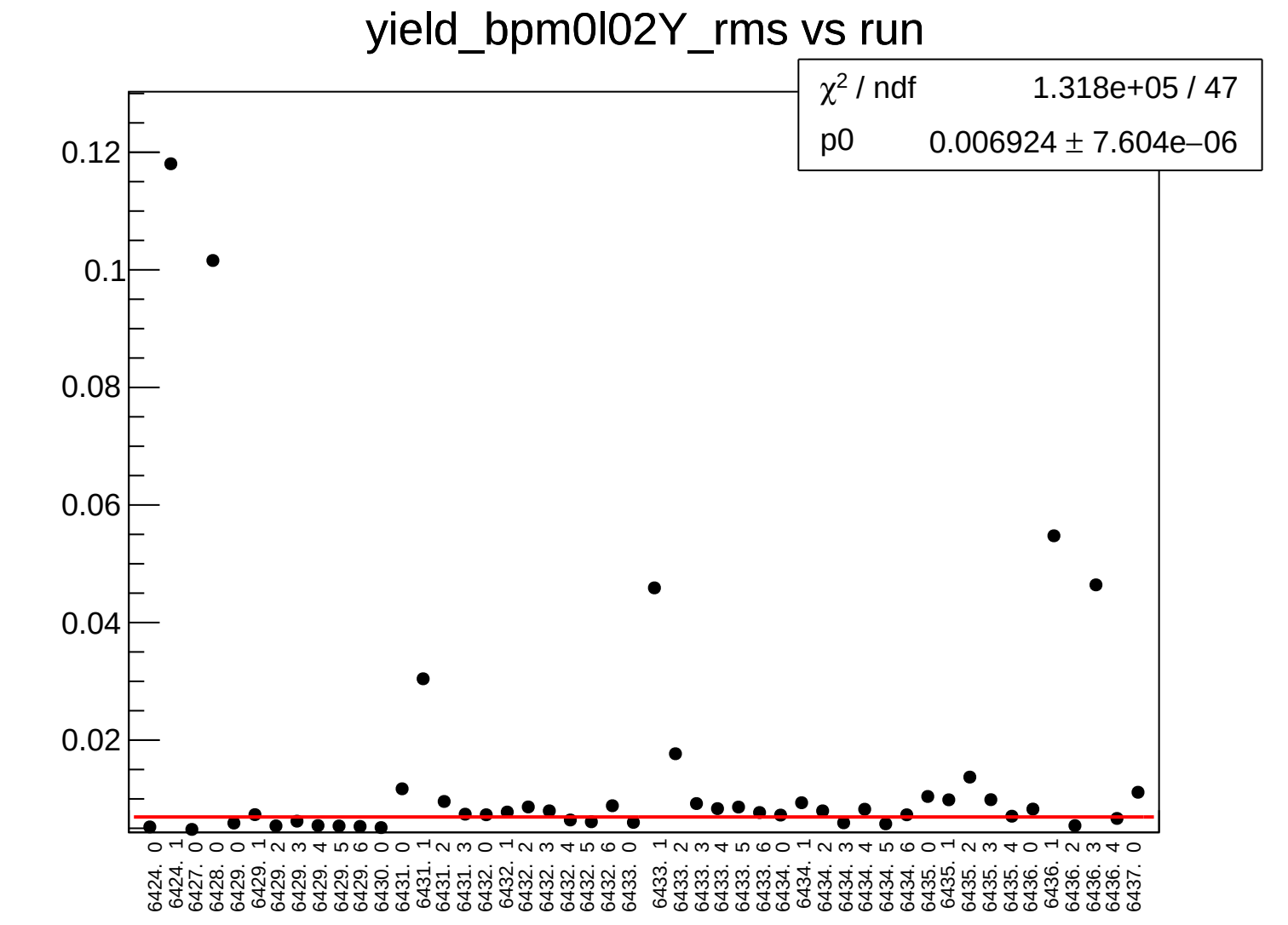

yield_bpm0l01Y_rms vs run
χ² / ndf 1.613e+05 / 47
p0 0.006272 ± 7.015e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

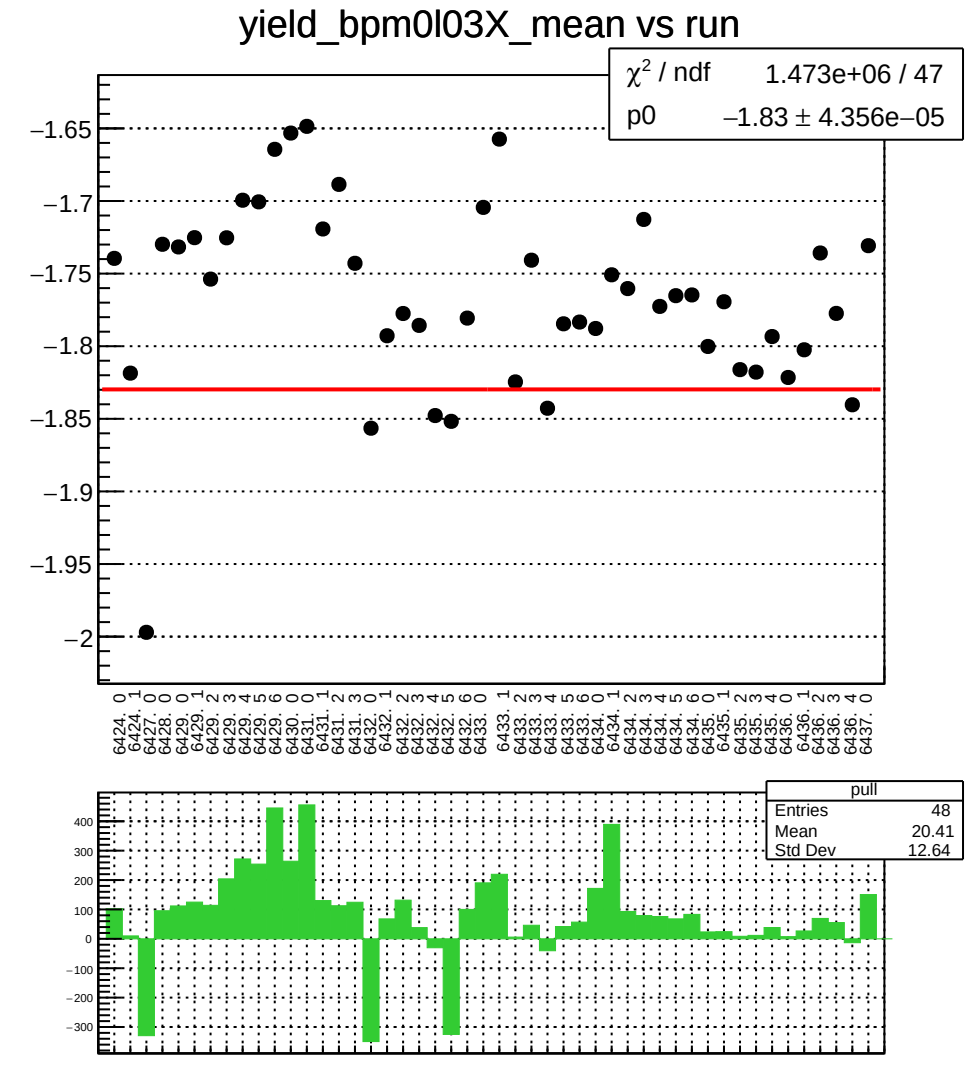

yield_bpm0l02X_mean vs run
χ² / ndf 2.167e+07 / 47
p0 0.295 ± 2.299e−05
0.4
0.2
0
−0.2
−0.4
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −122.1
Std Dev 141.1
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull1D
Entries 48
Mean −0.9163
Std Dev 3.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

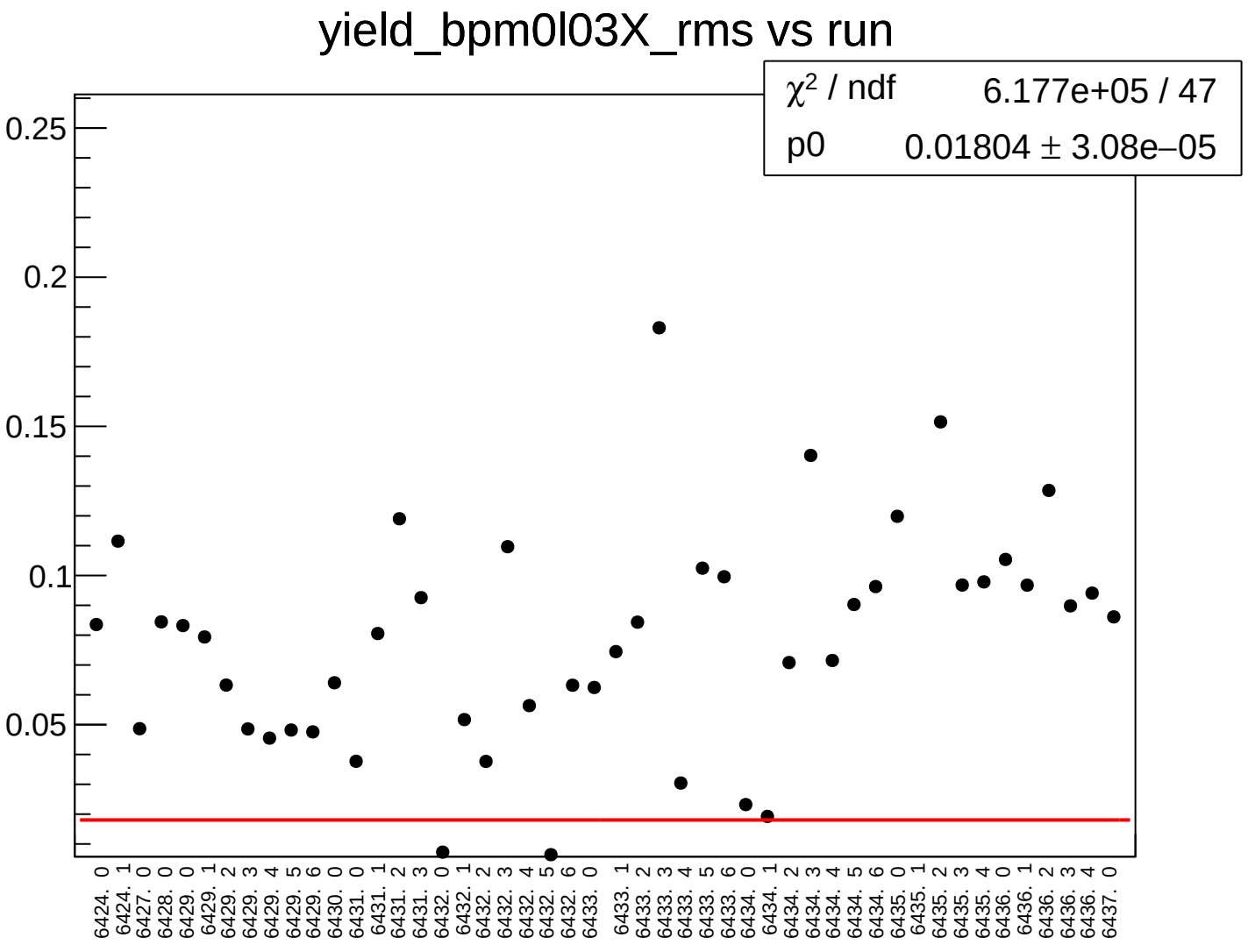

yield_bpm0l02X_rms vs run
χ² / ndf 5.47e+04 / 47
p0 0.01548 ± 1.626e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

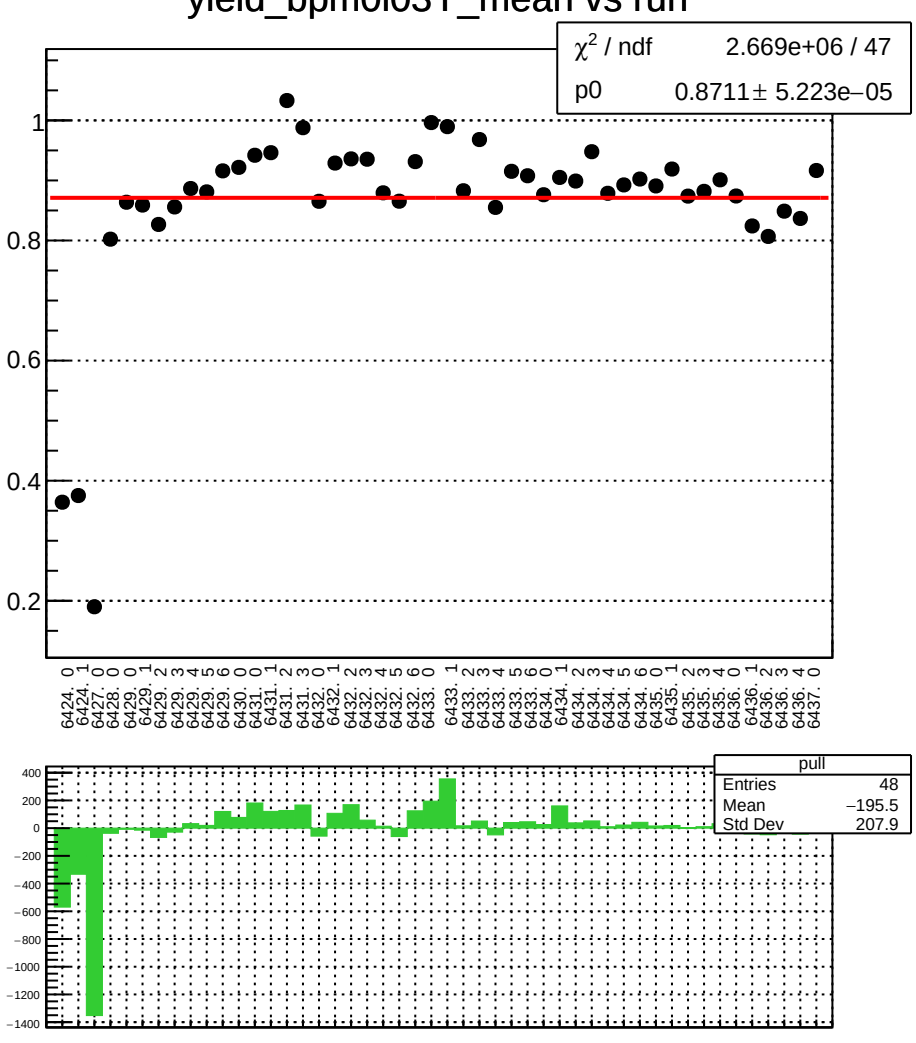

yield_bpm0l02Y_mean vs run
χ² / ndf 9.403e+07 / 47
p0 0.3853 ± 1.075e−05
pull
Entries 48
Mean 84.68
Std Dev 65.55

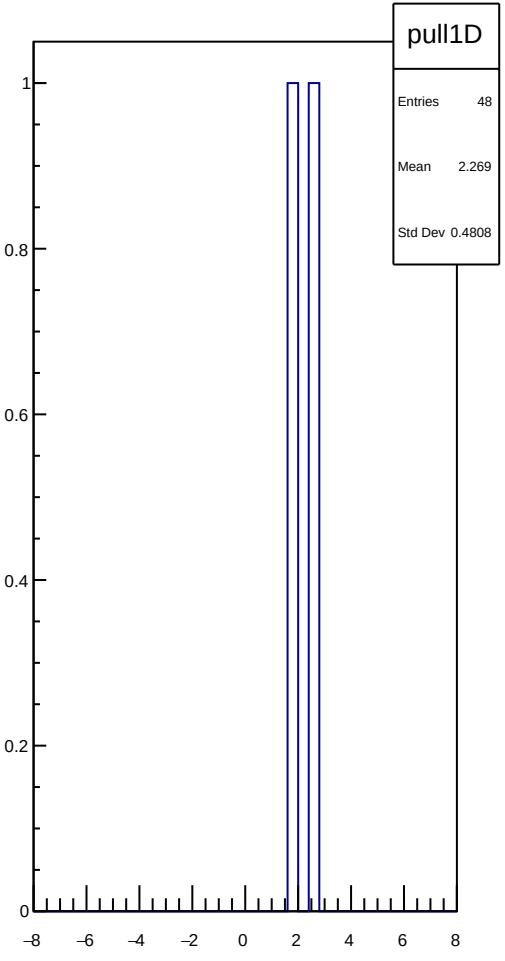

pull1D
Entries 48
Mean −6.405
Std Dev 0

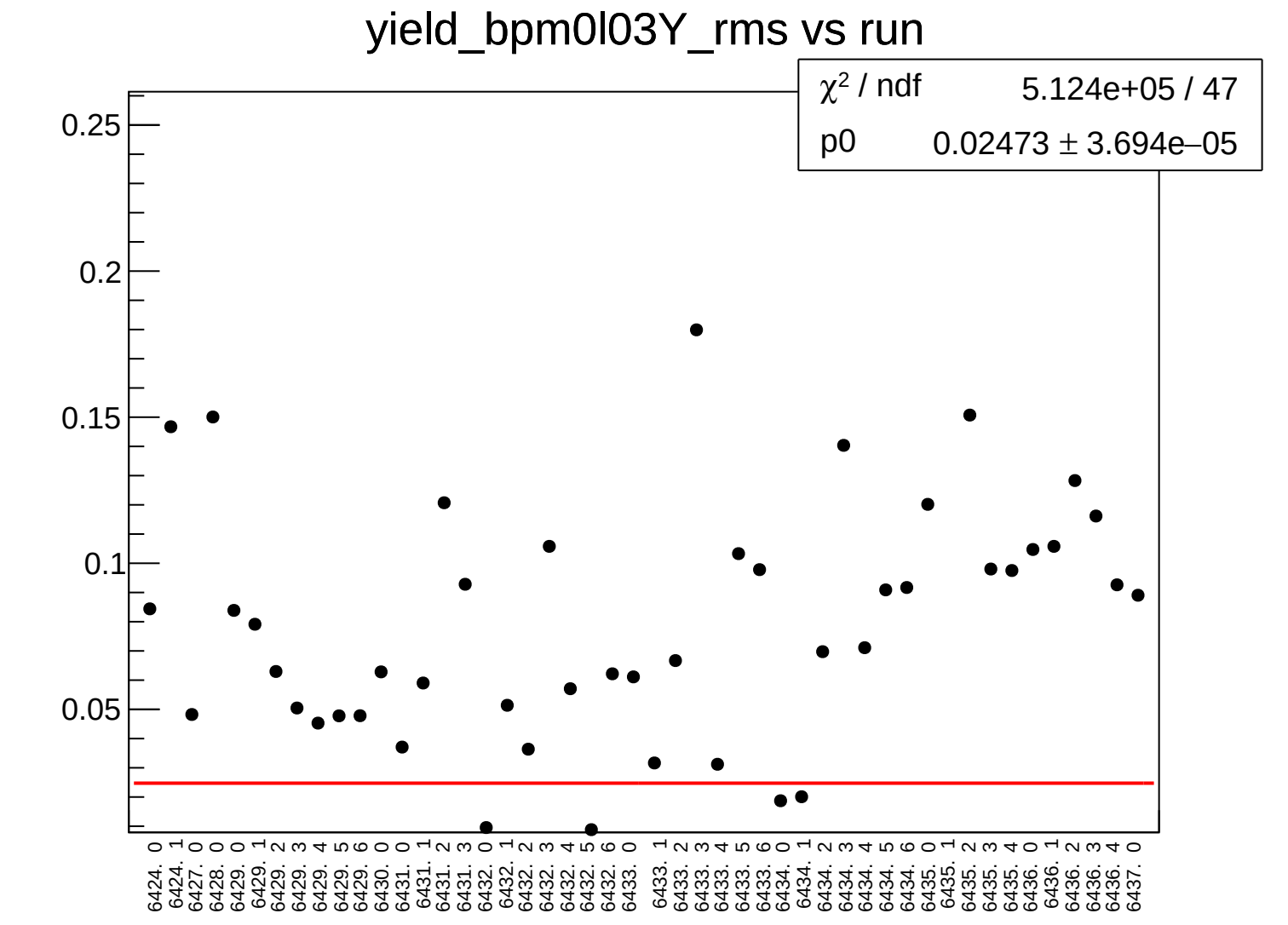

yield_bpm0l02Y_rms vs run
χ² / ndf 1.318e+05 / 47
p0 0.006924 ± 7.604e−06
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

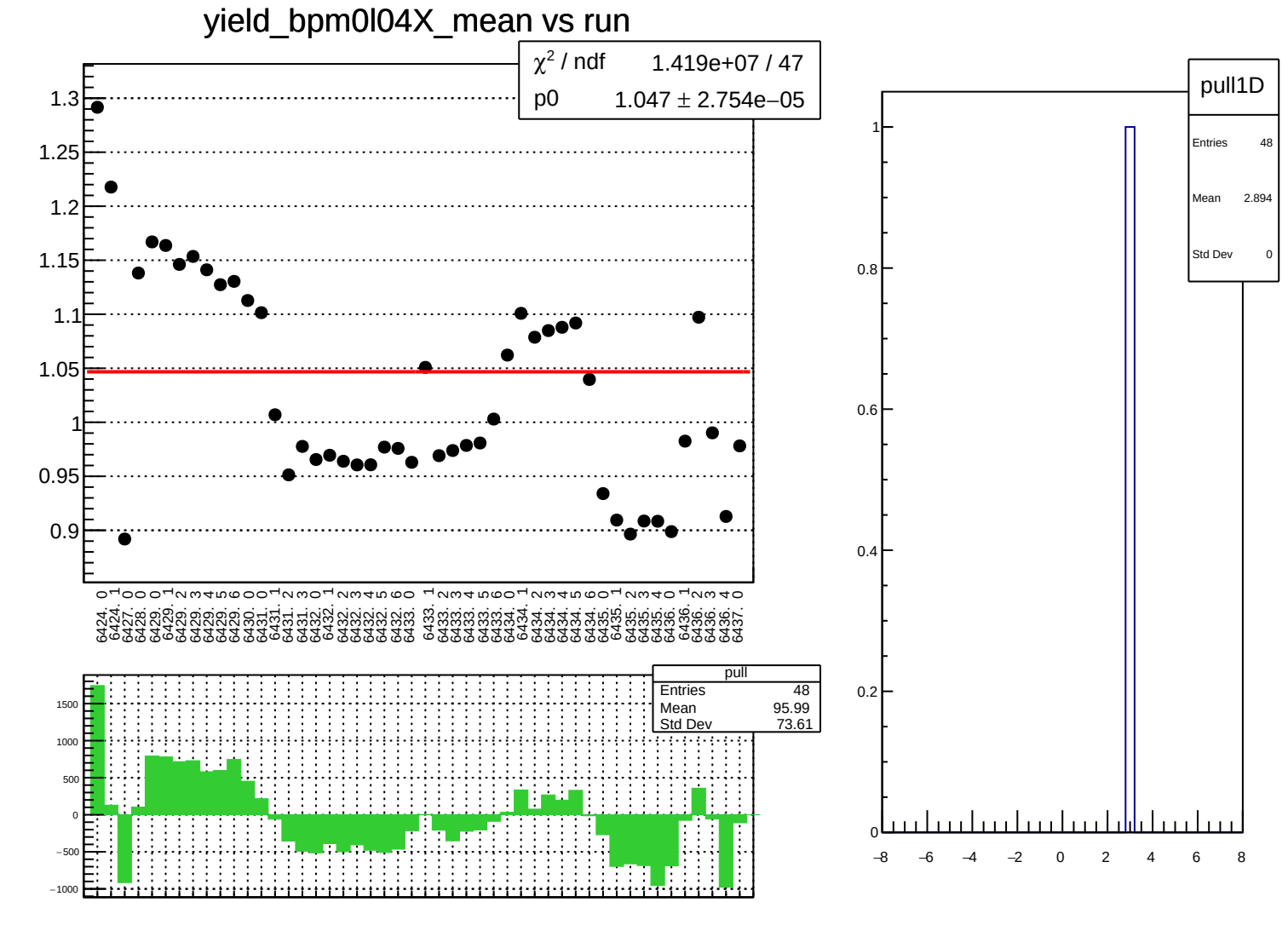

yield_bpm0l03X_mean vs run
χ² / ndf 1.473e+06 / 47
p0 −1.83 ± 4.356e−05
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
−2
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 20.41
Std Dev 12.64
400
300
200
100
0
−100
−200
−300
pull1D
Entries 48
Mean 6.614
Std Dev 0.7951
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

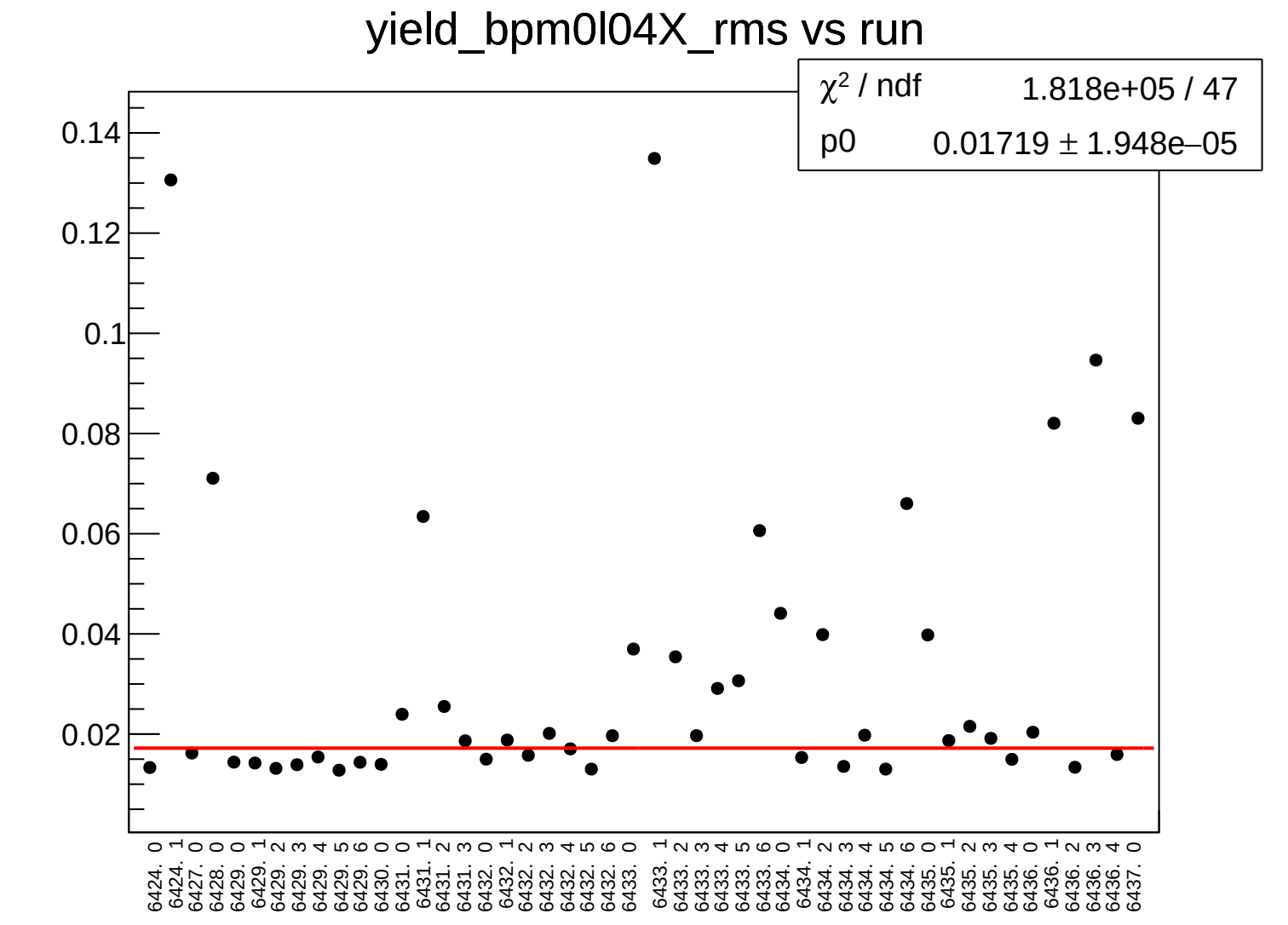

yield_bpm0l03X_rms vs run
χ² / ndf 6.177e+05 / 47
p0 0.01804 ± 3.08e−05
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

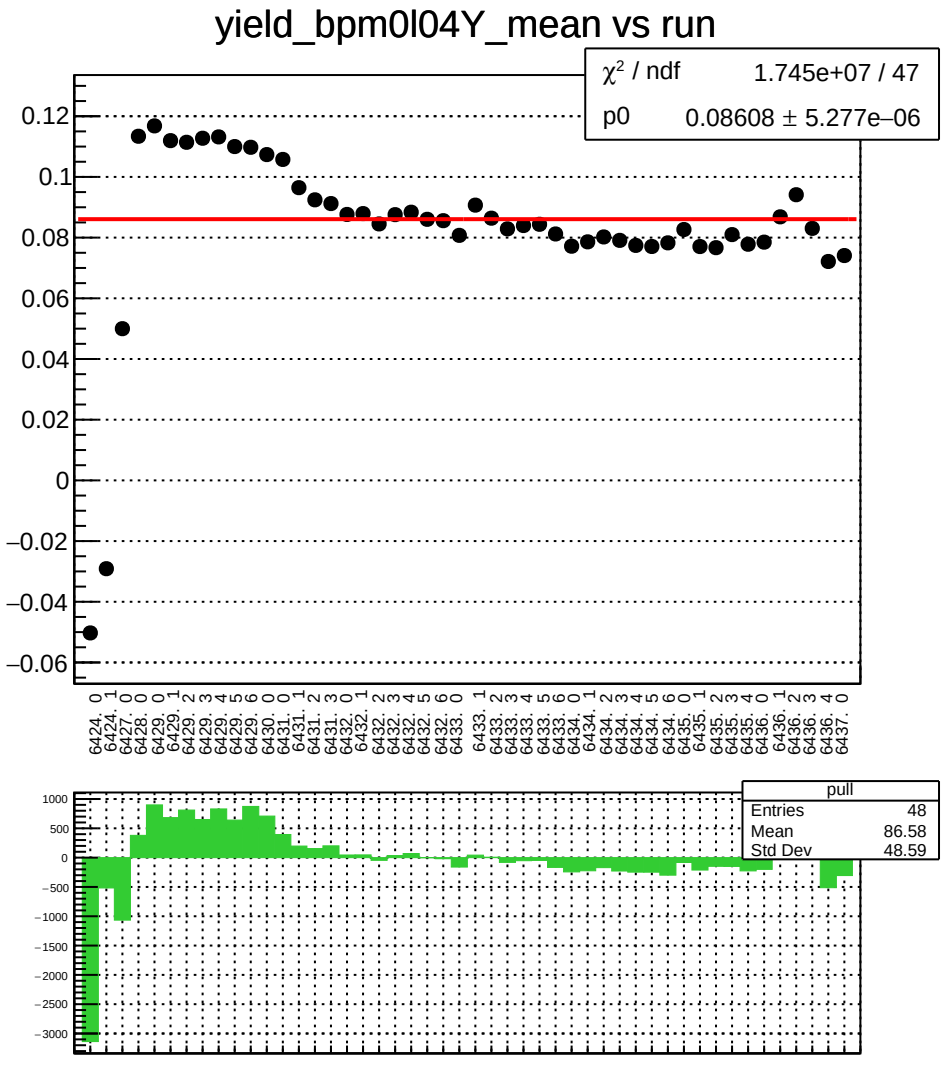

yield_bpm0l03Y_mean vs run
χ² / ndf 2.669e+06 / 47
p0 0.8711 ± 5.223e−05
pull
Entries 48
Mean −195.5
Std Dev 207.9

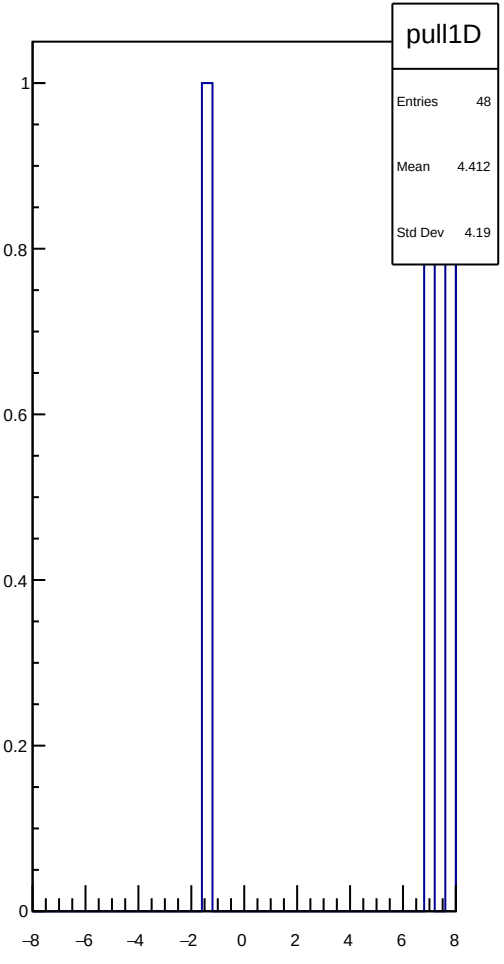

pull1D
Entries 48
Mean 2.269
Std Dev 0.4808

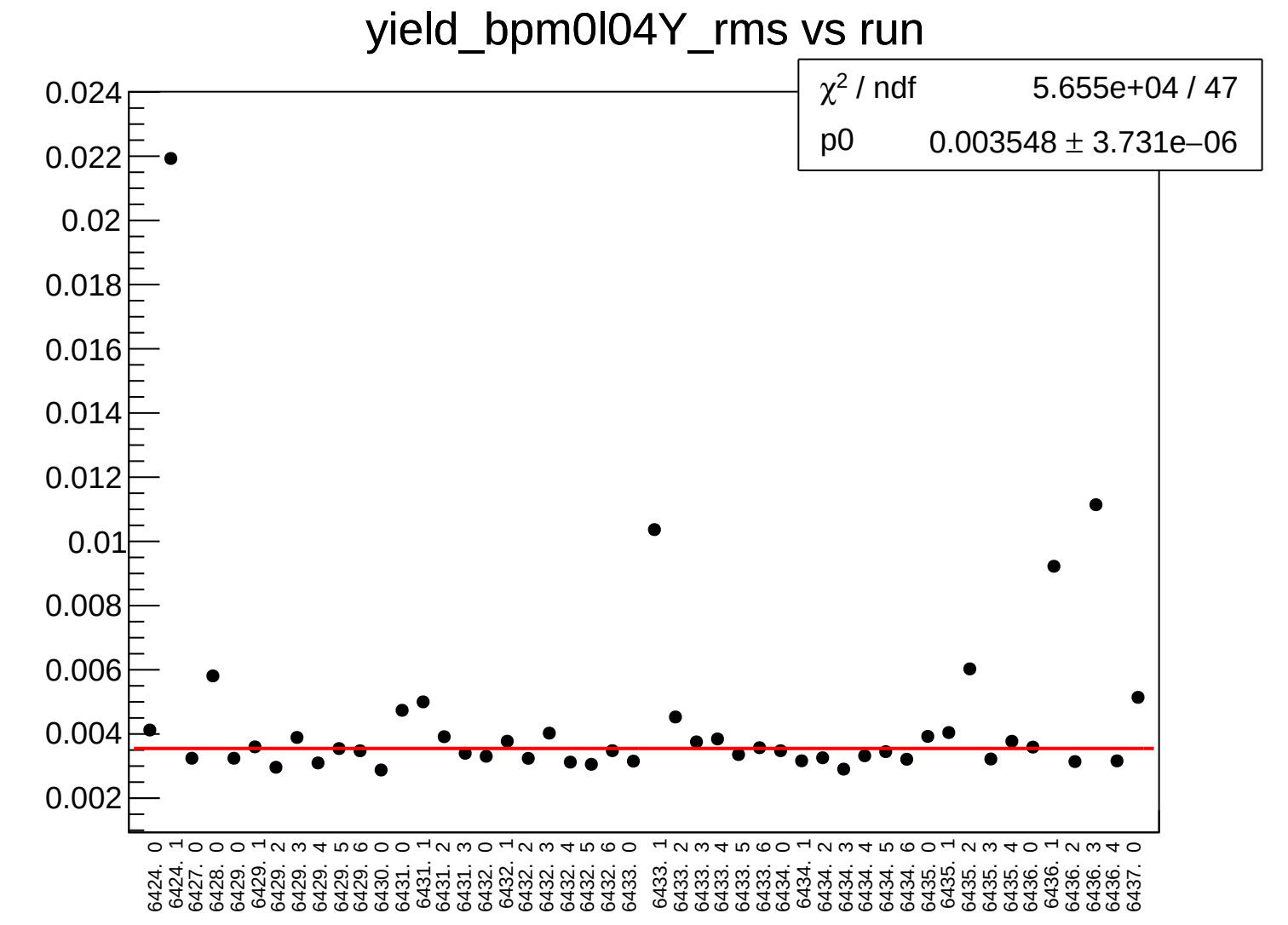

yield_bpm0l03Y_rms vs run
χ² / ndf 5.124e+05 / 47
p0 0.02473 ± 3.694e–05
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

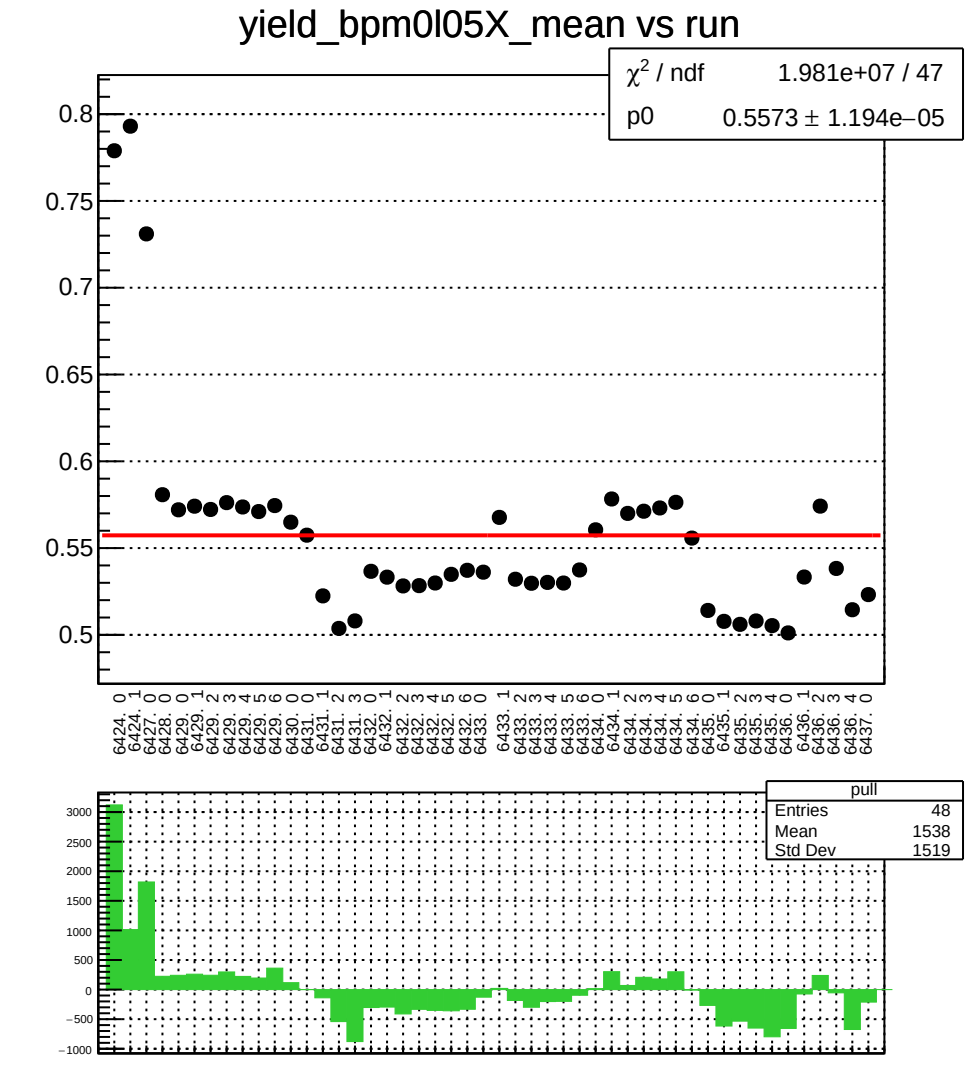

yield_bpm0l04X_mean vs run
χ² / ndf 1.419e+07 / 47
p0 1.047 ± 2.754e−05
pull
Entries 48
Mean 95.99
Std Dev 73.61
pull1D
Entries 48
Mean 2.894
Std Dev 0

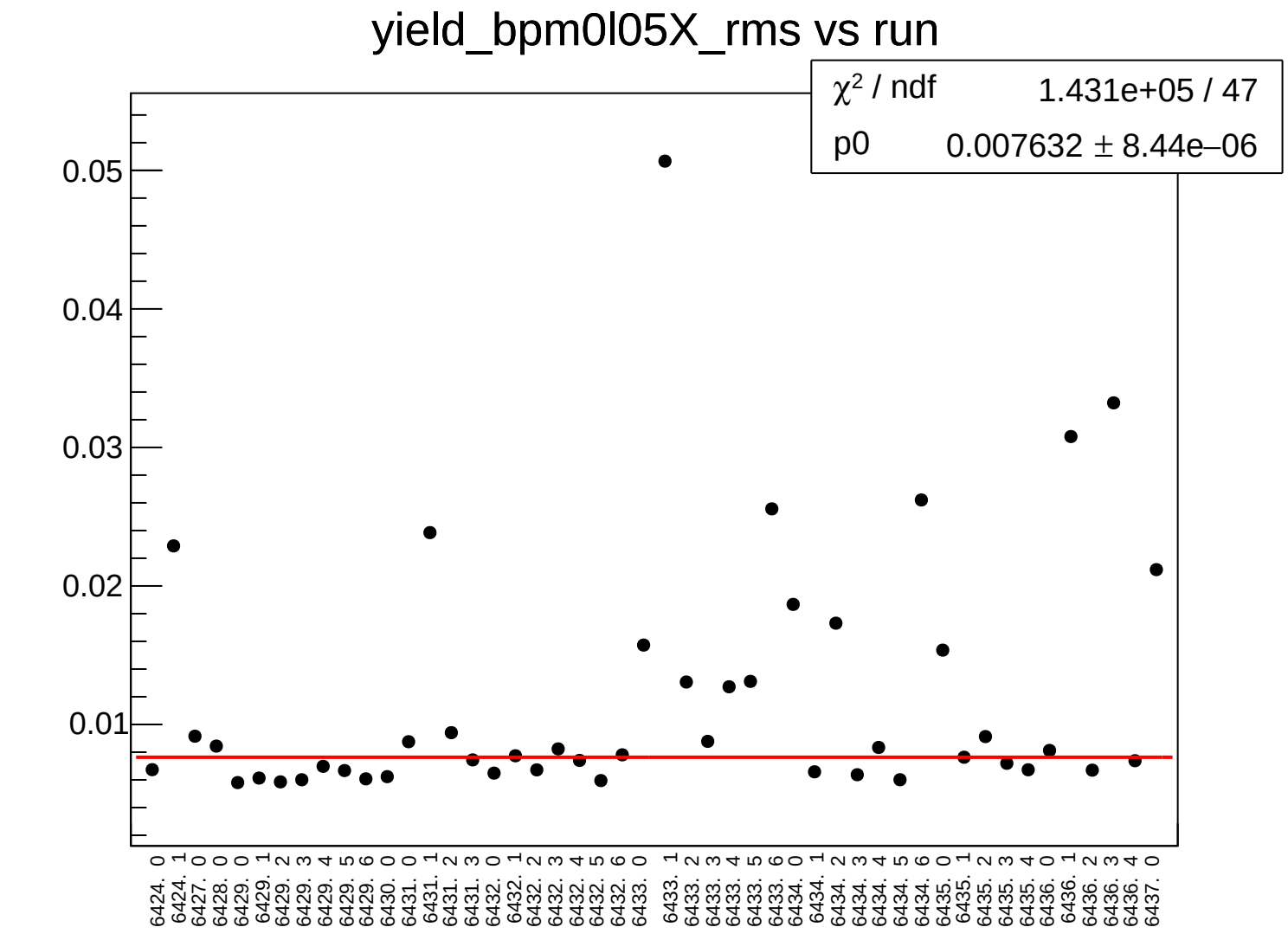

yield_bpm0l04X_rms vs run
χ² / ndf 1.818e+05 / 47
p0 0.01719 ± 1.948e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

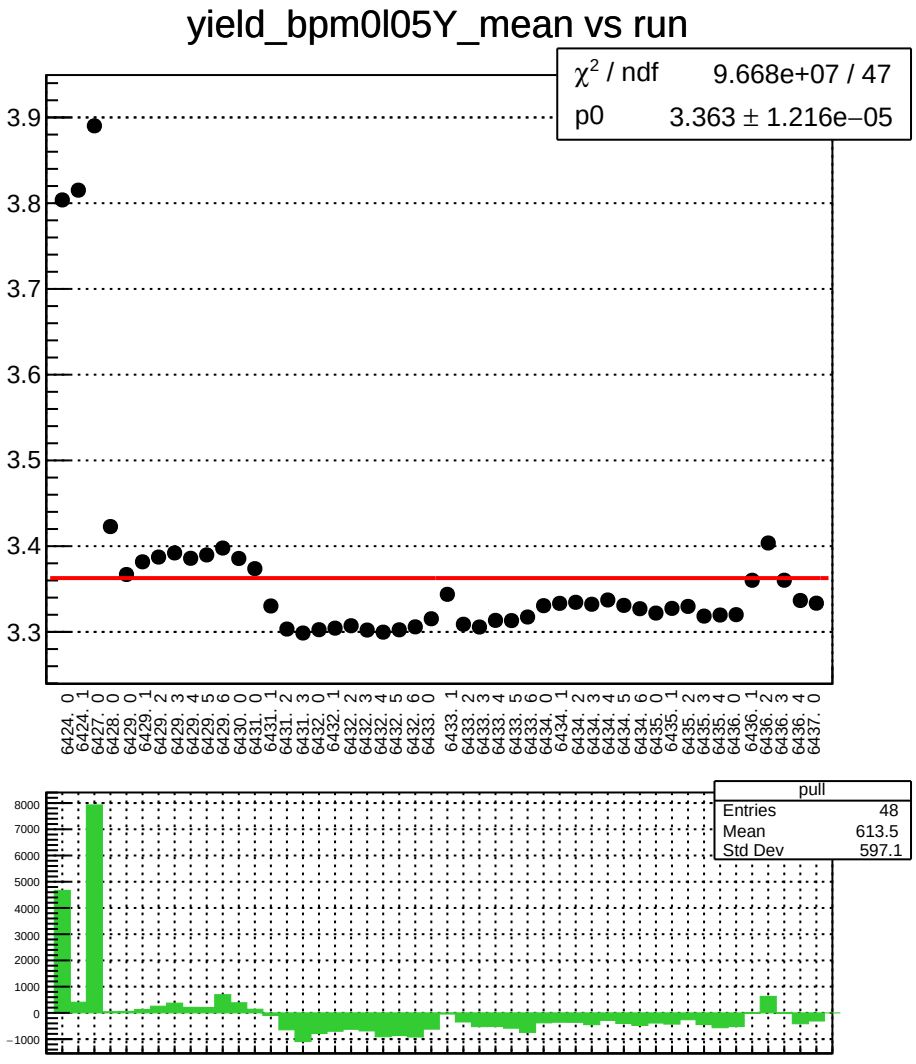

yield_bpm0l04Y_mean vs run
χ² / ndf 1.745e+07 / 47
p0 0.08608 ± 5.277e−06
pull
Entries 48
Mean 86.58
Std Dev 48.59

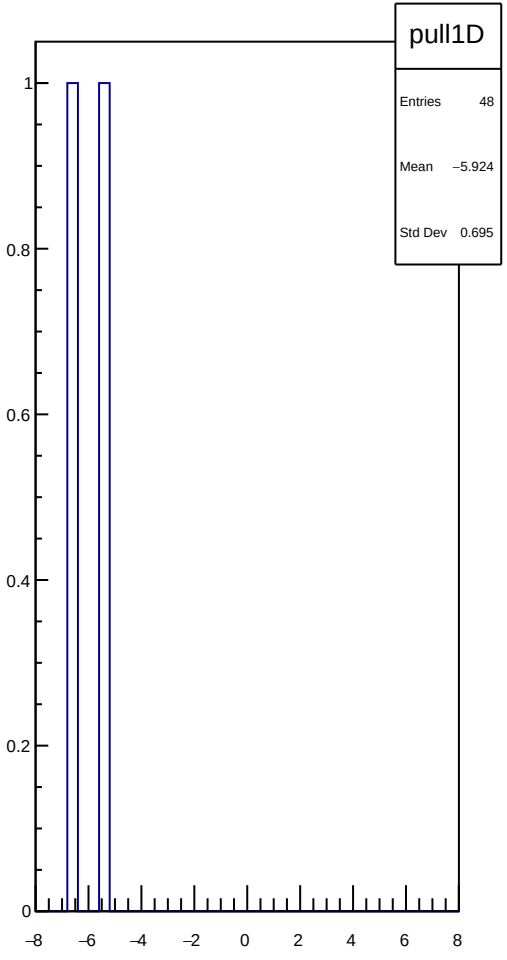

pull1D
Entries 48
Mean 4.412
Std Dev 4.19

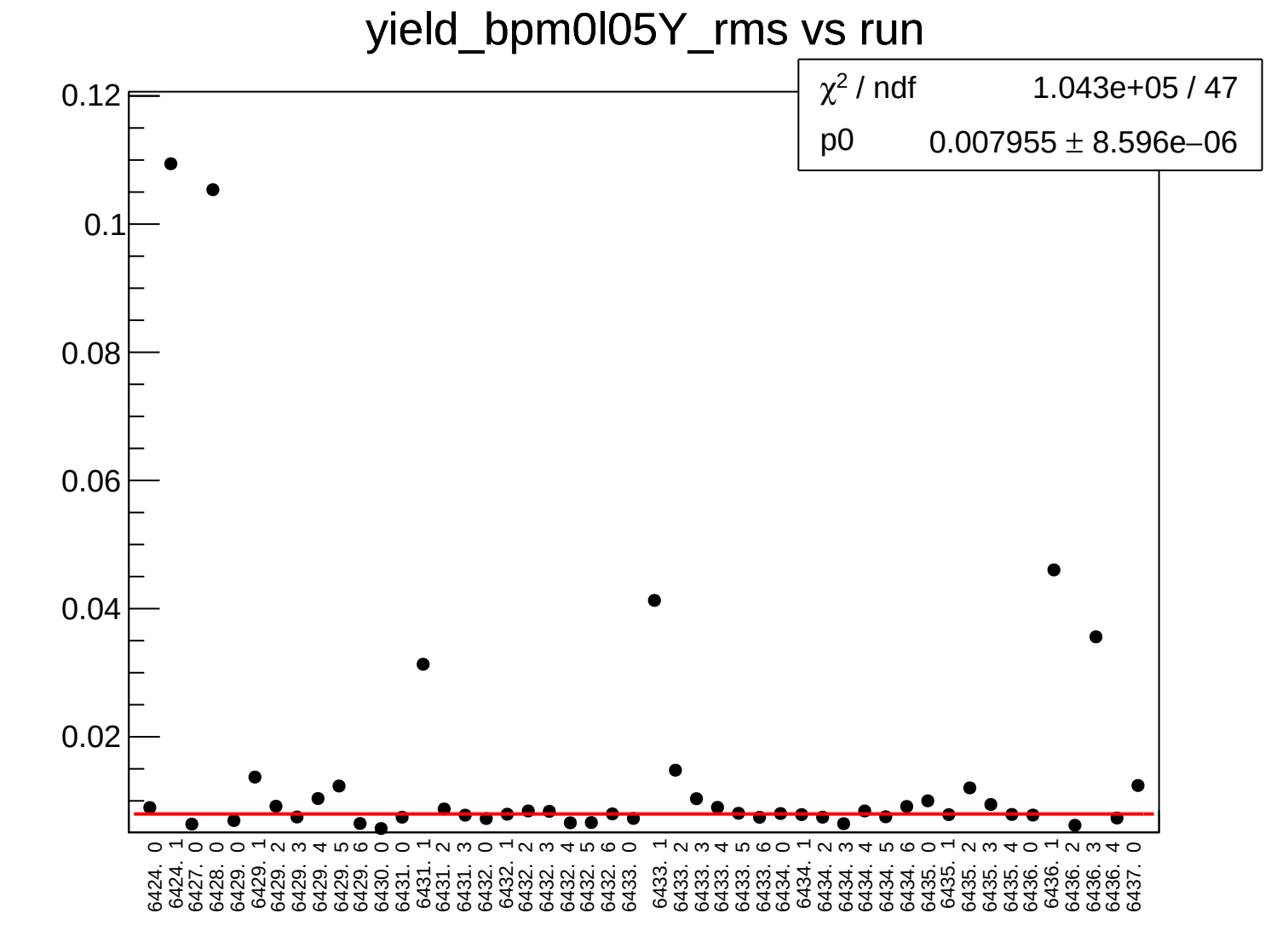

yield_bpm0l04Y_rms vs run
χ² / ndf 5.655e+04 / 47
p0 0.003548 ± 3.731e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

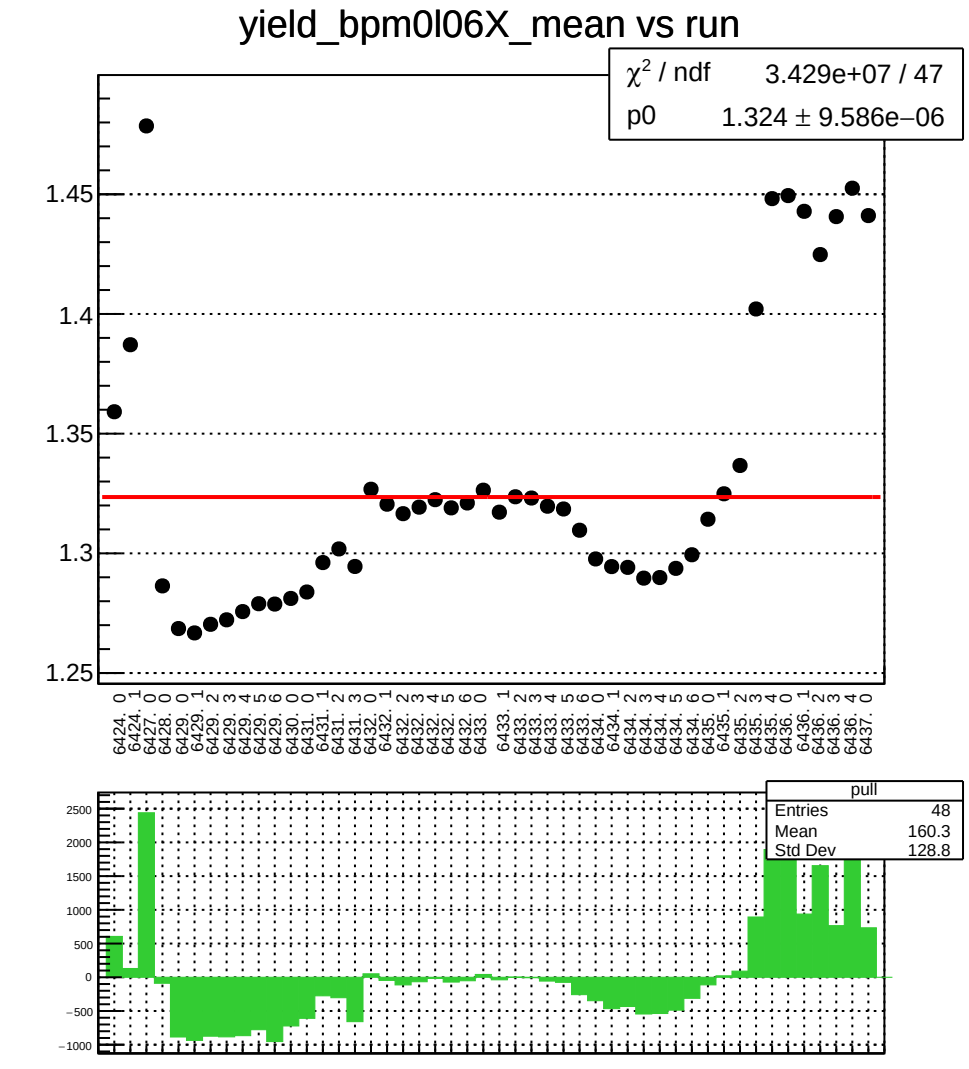

yield_bpm0l05X_mean vs run
χ² / ndf 1.981e+07 / 47
p0 0.5573 ± 1.194e−05
0.8
0.75
0.7
0.65
0.6
0.55
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 1538
Std Dev 1519
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean −3.105
Std Dev 4.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

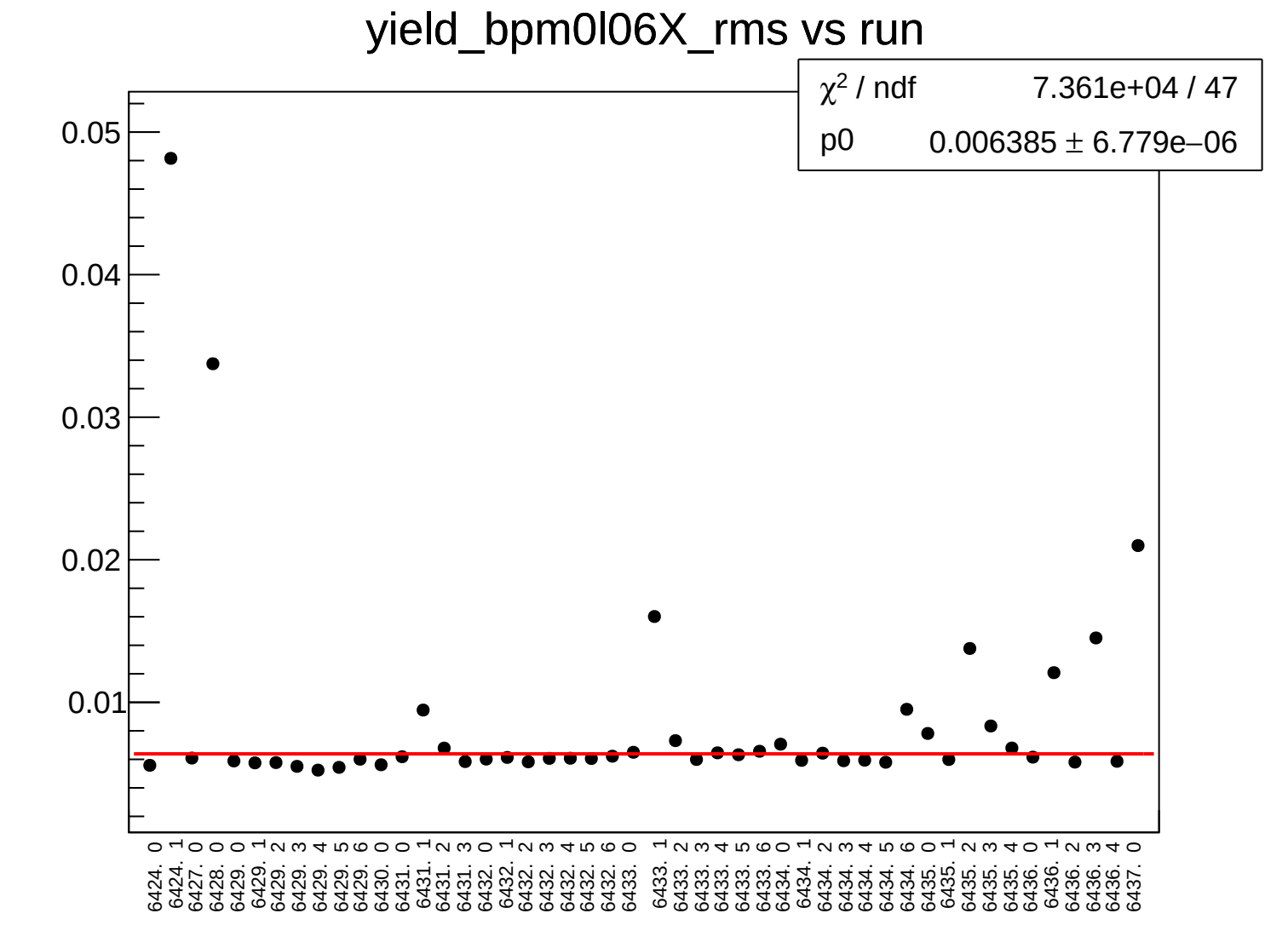

yield_bpm0l05X_rms vs run
χ² / ndf 1.431e+05 / 47
p0 0.007632 ± 8.44e–06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

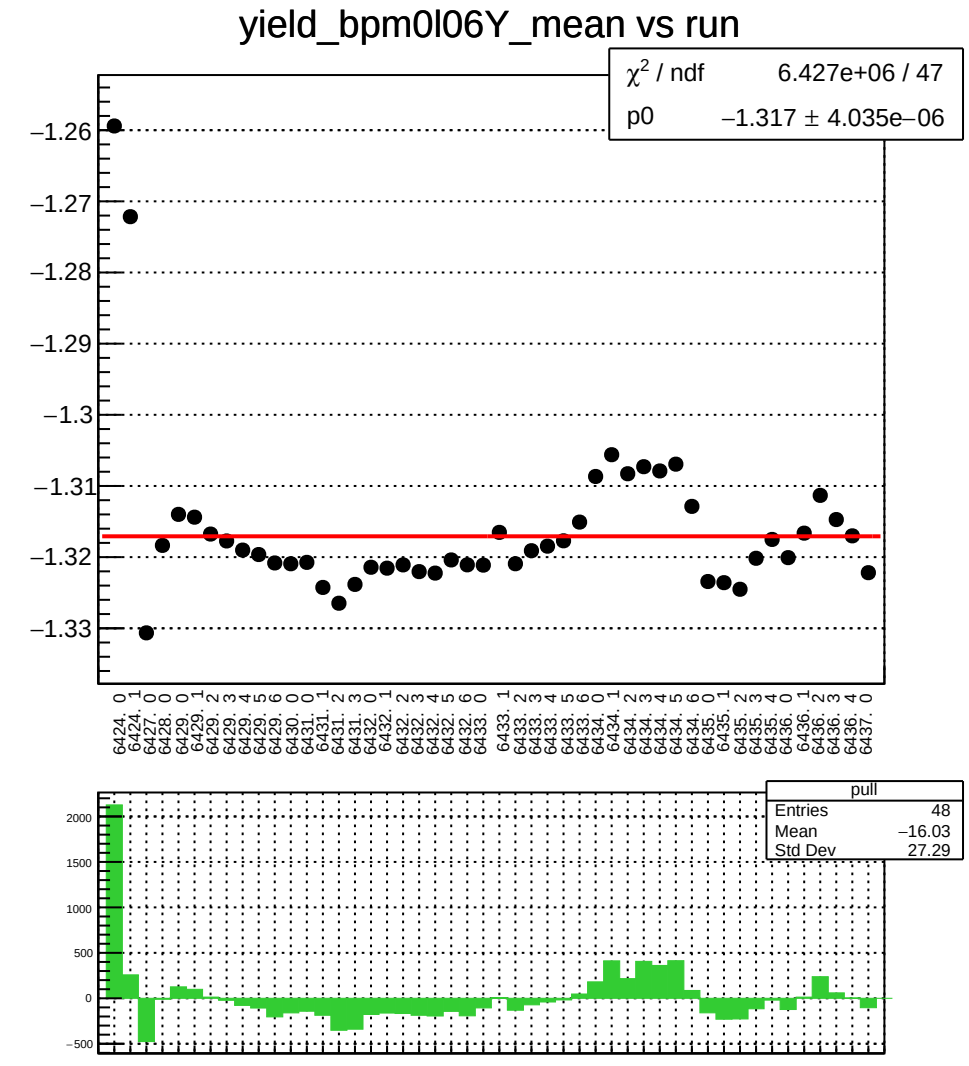

yield_bpm0l05Y_mean vs run
χ² / ndf 9.668e+07 / 47
p0 3.363 ± 1.216e−05
3.9
3.8
3.7
3.6
3.5
3.4
3.3
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 613.5
Std Dev 597.1
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000

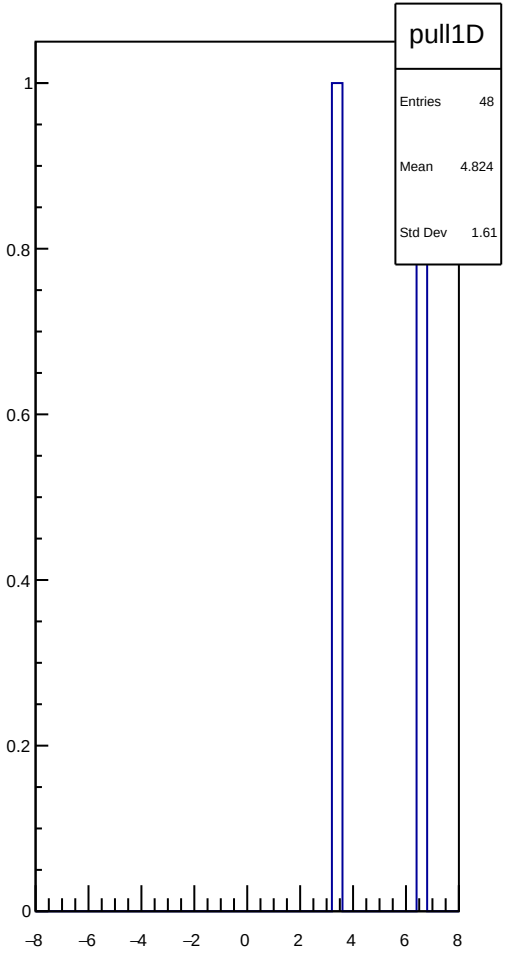

pull1D
Entries 48
Mean −5.924
Std Dev 0.695
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

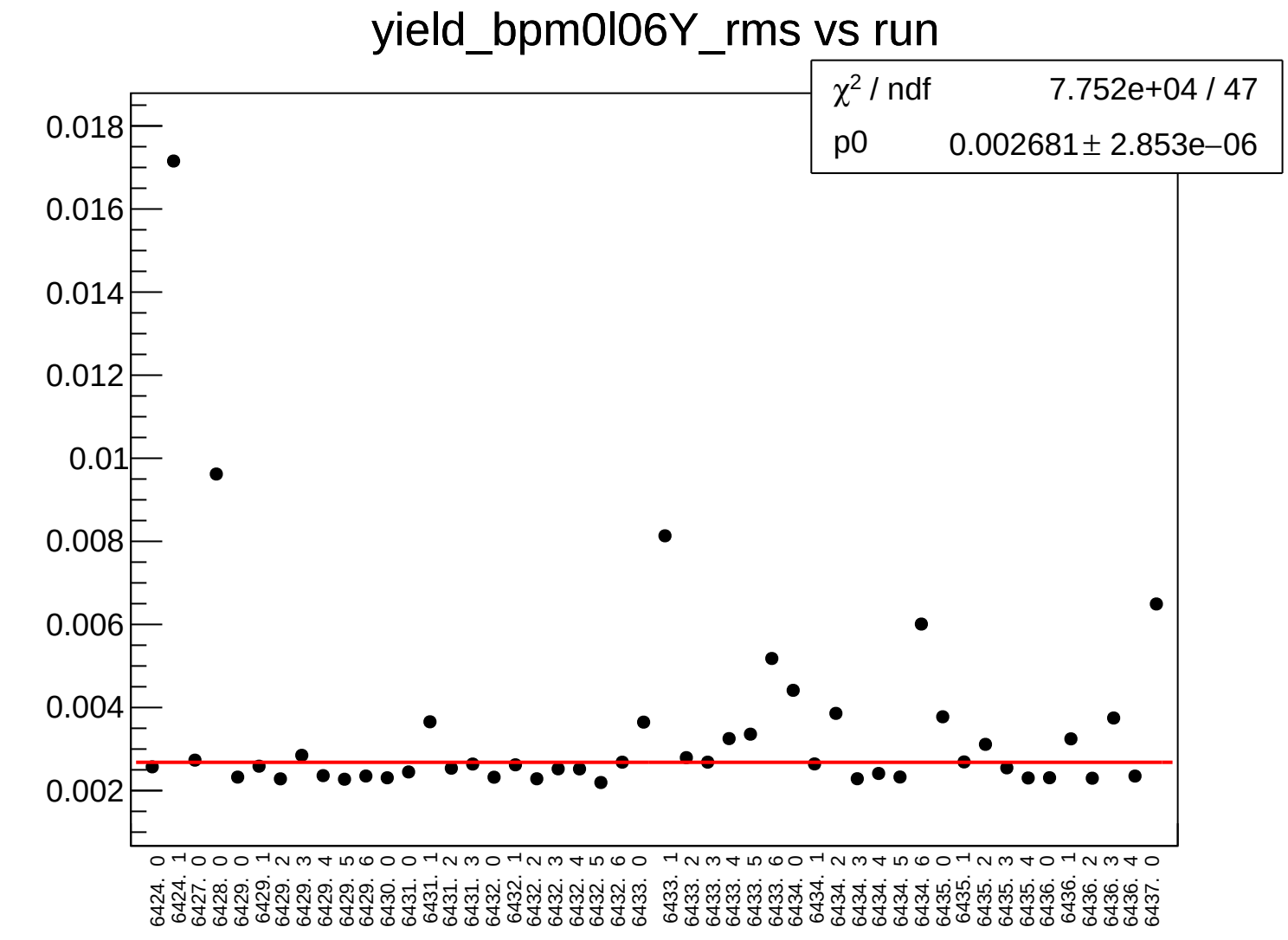

yield_bpm0l05Y_rms vs run
χ² / ndf 1.043e+05 / 47
p0 0.007955 ± 8.596e−06
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

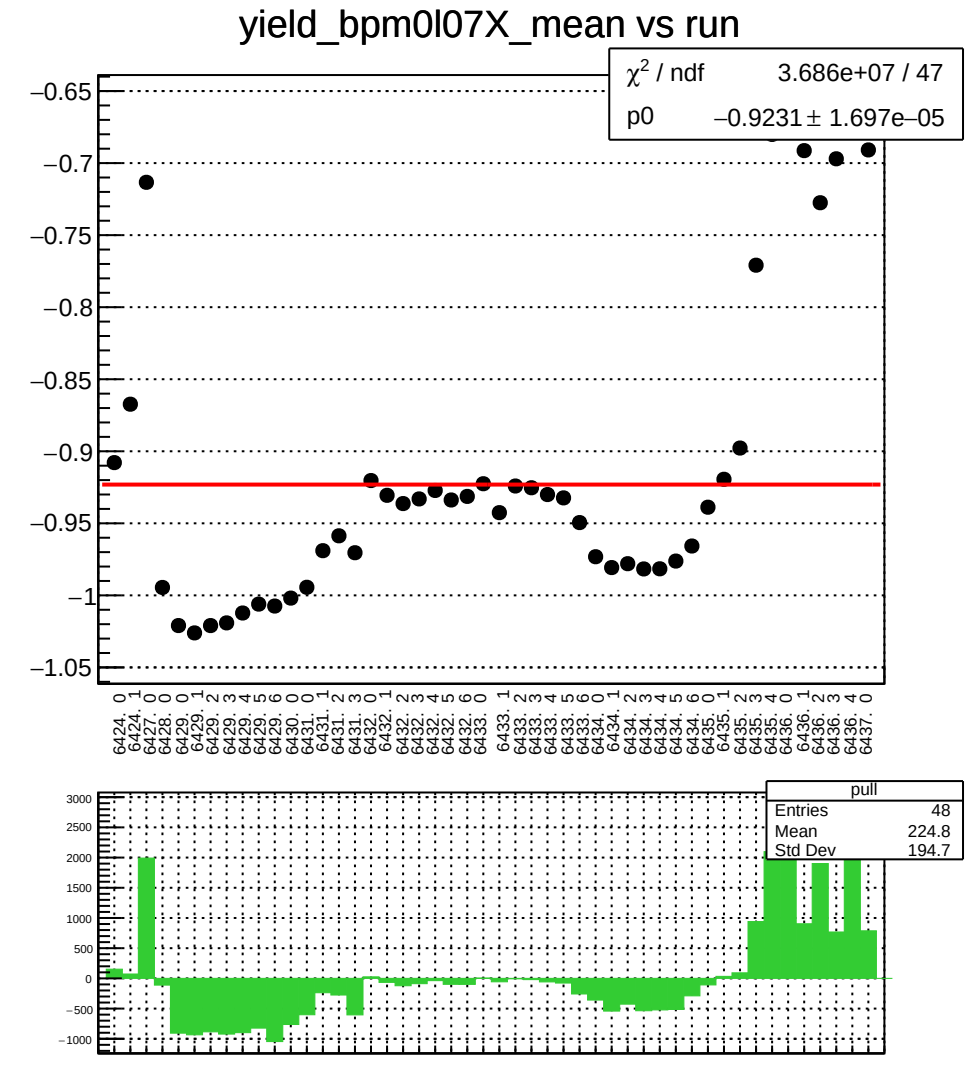

yield_bpm0l06X_mean vs run
χ² / ndf 3.429e+07 / 47
p0 1.324 ± 9.586e−06
1.45
1.4
1.35
1.3
1.25
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 160.3
Std Dev 128.8
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 48
Mean −2.495
Std Dev 4.007
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

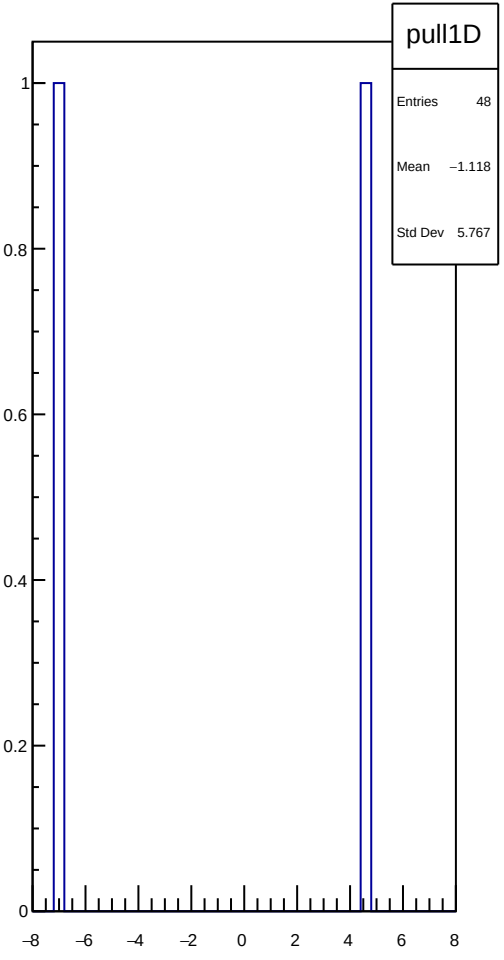

yield_bpm0l06X_rms vs run
χ² / ndf 7.361e+04 / 47
p0 0.006385 ± 6.779e−06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

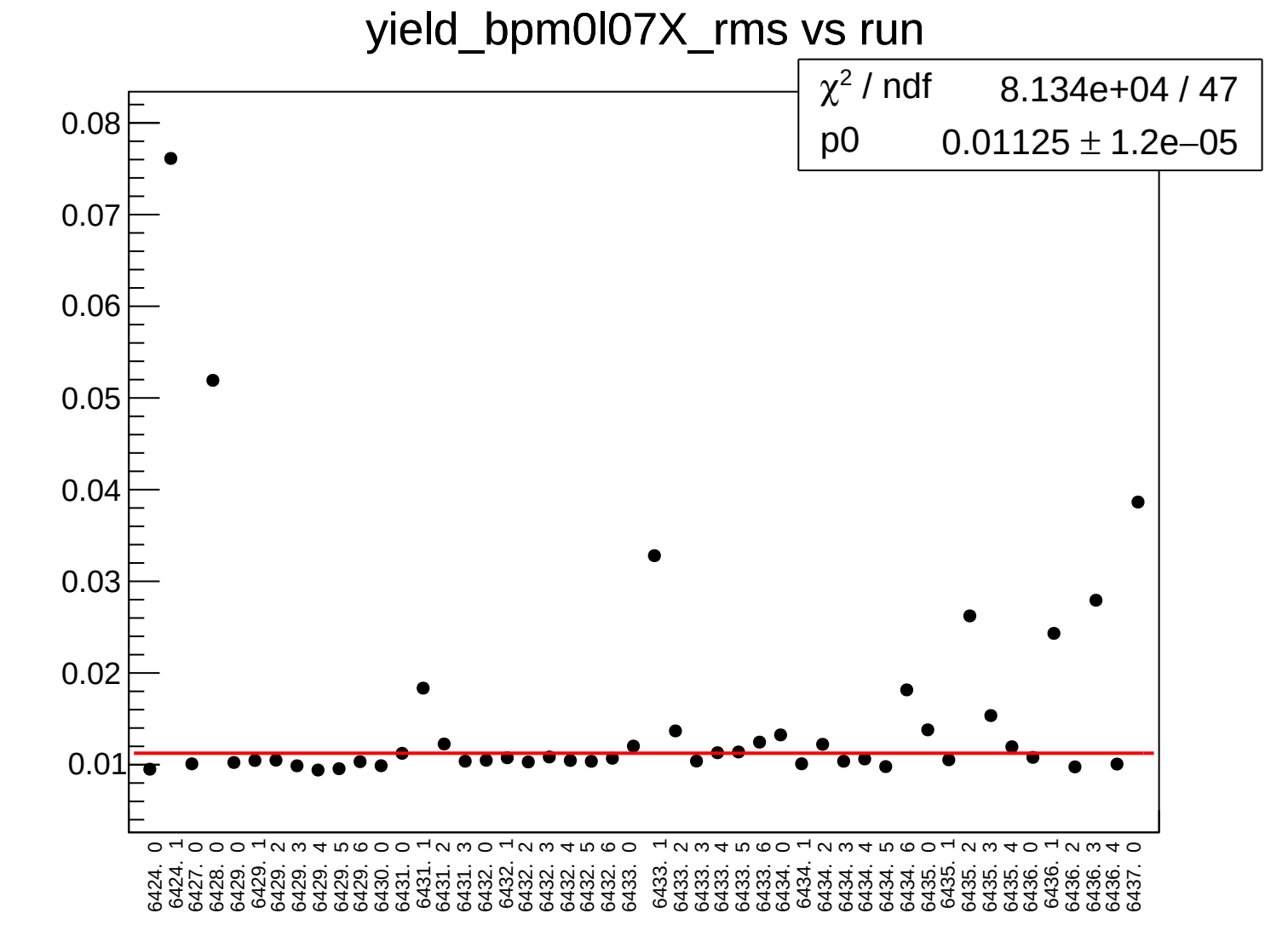

yield_bpm0l06Y_mean vs run
χ² / ndf 6.427e+06 / 47
p0 −1.317 ± 4.035e−06
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6435. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −16.03
Std Dev 27.29
2000
1500
1000
500
0
−500

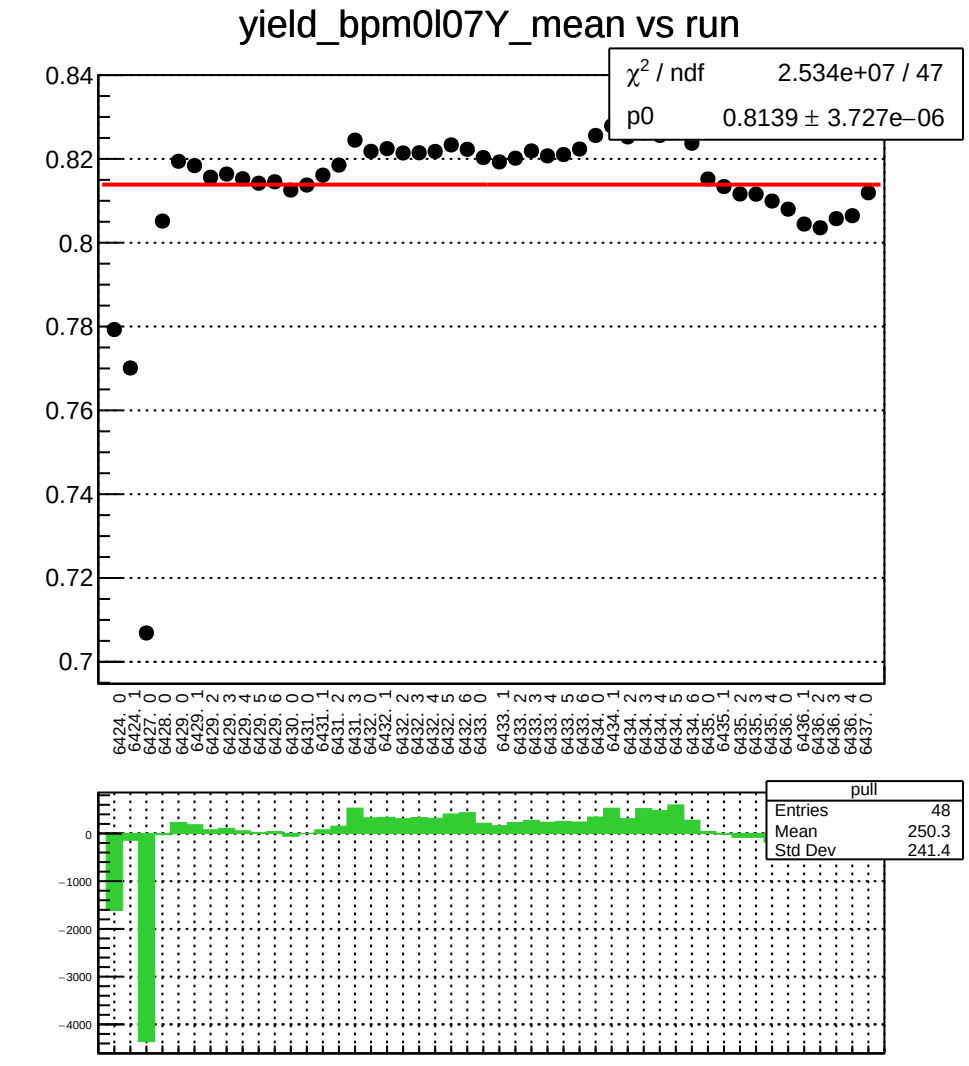

pull1D
Entries 48
Mean 4.824
Std Dev 1.61
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

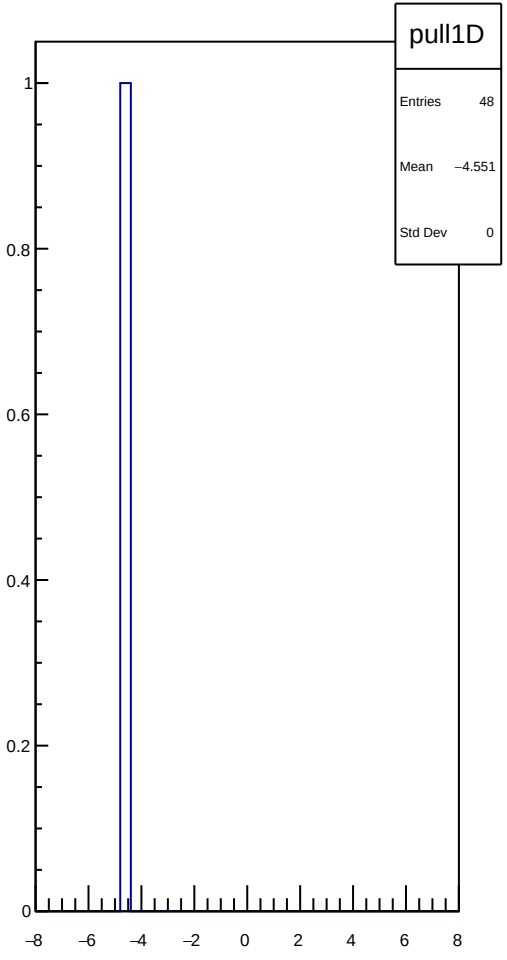

yield_bpm0l06Y_rms vs run
χ² / ndf 7.752e+04 / 47
p0 0.002681 ± 2.853e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

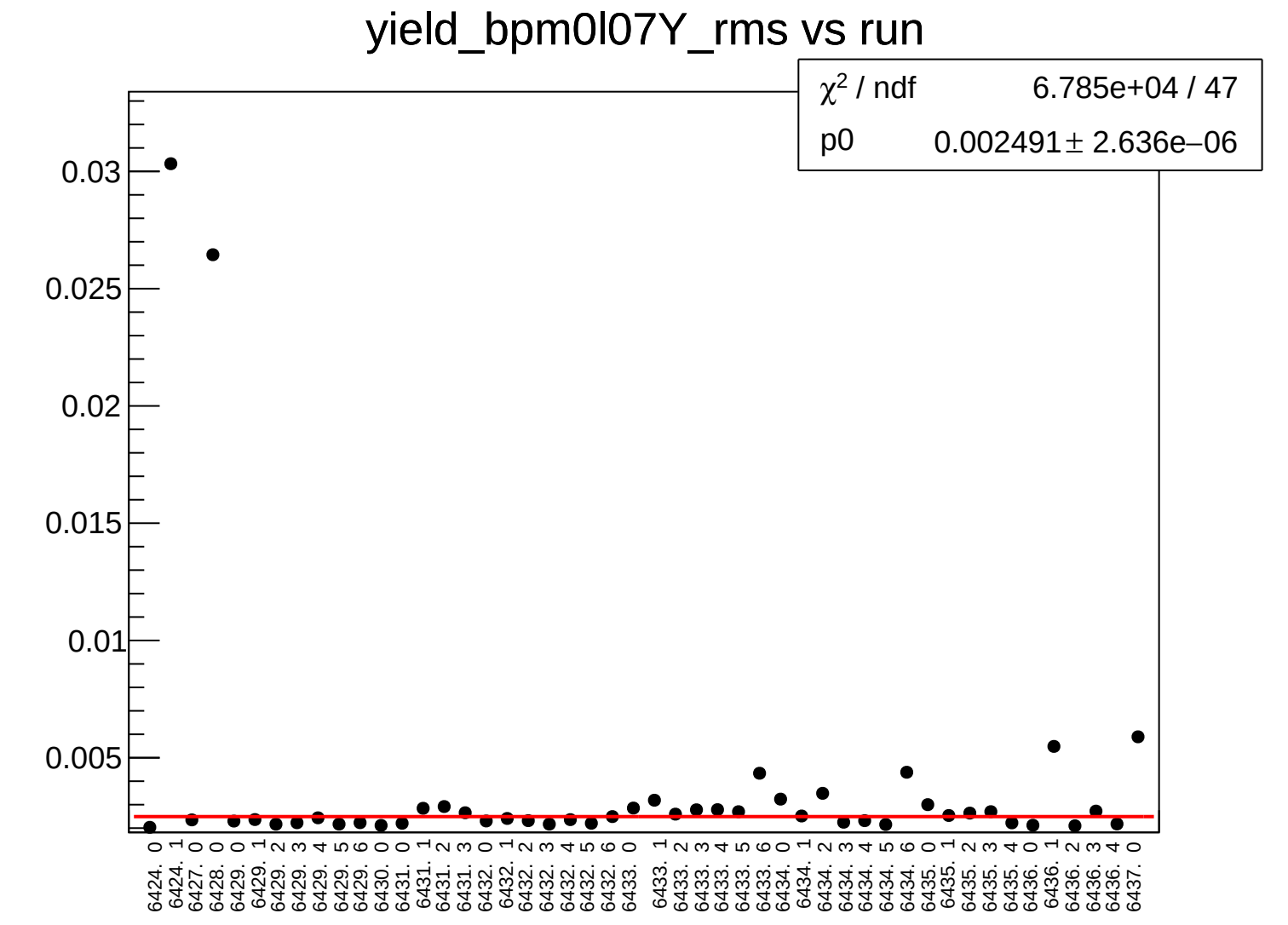

yield_bpm0l07X_mean vs run
χ² / ndf 3.686e+07 / 47
p0 −0.9231 ± 1.697e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 224.8
Std Dev 194.7
3000
2500
2000
1500
1000
500
0
−500
−1000

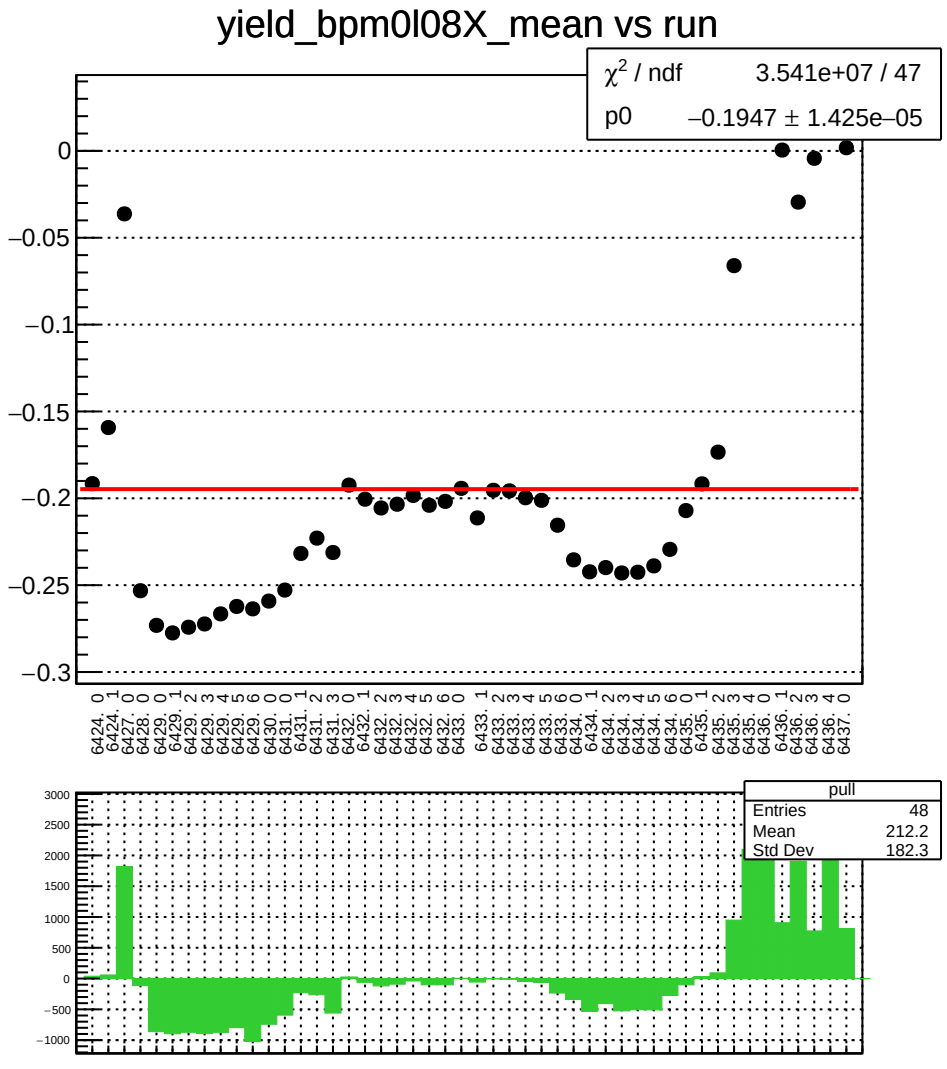

pull1D
Entries 48
Mean −1.118
Std Dev 5.767
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

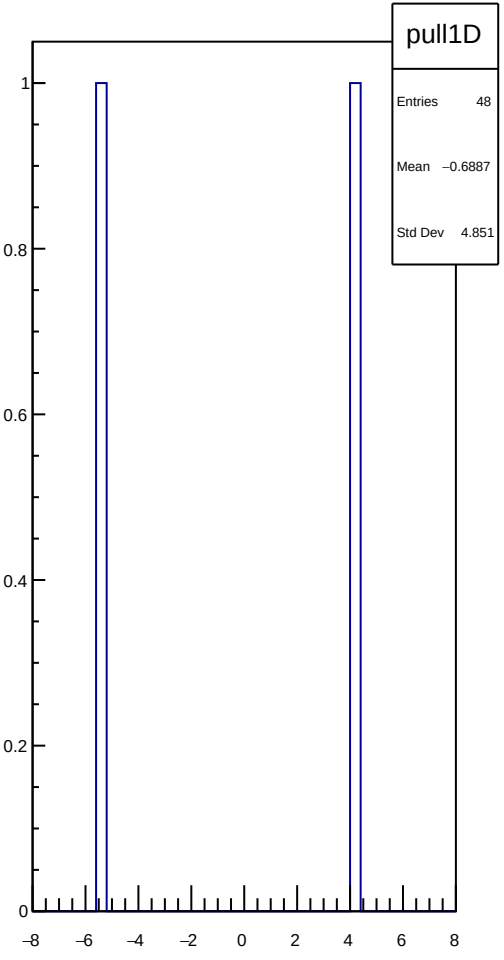

yield_bpm0l07X_rms vs run
χ² / ndf 8.134e+04 / 47
p0 0.01125 ± 1.2e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

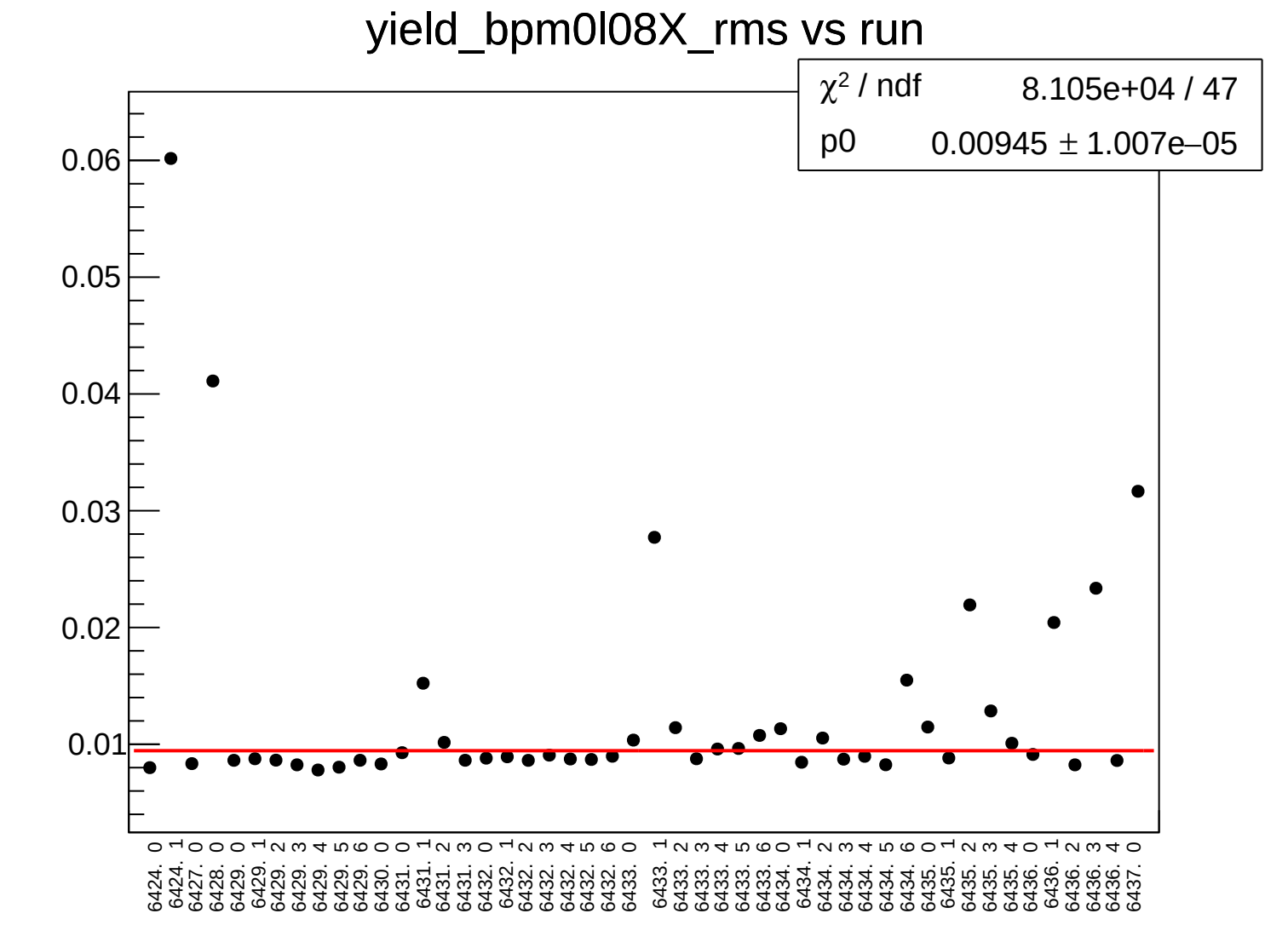

yield_bpm0l07Y_mean vs run
χ² / ndf 2.534e+07 / 47
p0 0.8139 ± 3.727e−06
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 250.3
Std Dev 241.4
0
−1000
−2000
−3000
−4000


pull1D
Entries 48
Mean −4.551
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l07Y_rms vs run
χ² / ndf 6.785e+04 / 47
p0 0.002491 ± 2.636e−06
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0


yield_bpm0l08X_mean vs run
χ² / ndf 3.541e+07 / 47
p0 −0.1947 ± 1.425e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
3000
2500
2000
1500
1000
500
0
−500
−1000
pull
Entries 48
Mean 212.2
Std Dev 182.3


pull1D
Entries 48
Mean −0.6887
Std Dev 4.851
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l08X_rms vs run
χ² / ndf 8.105e+04 / 47
p0 0.00945 ± 1.007e–05
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
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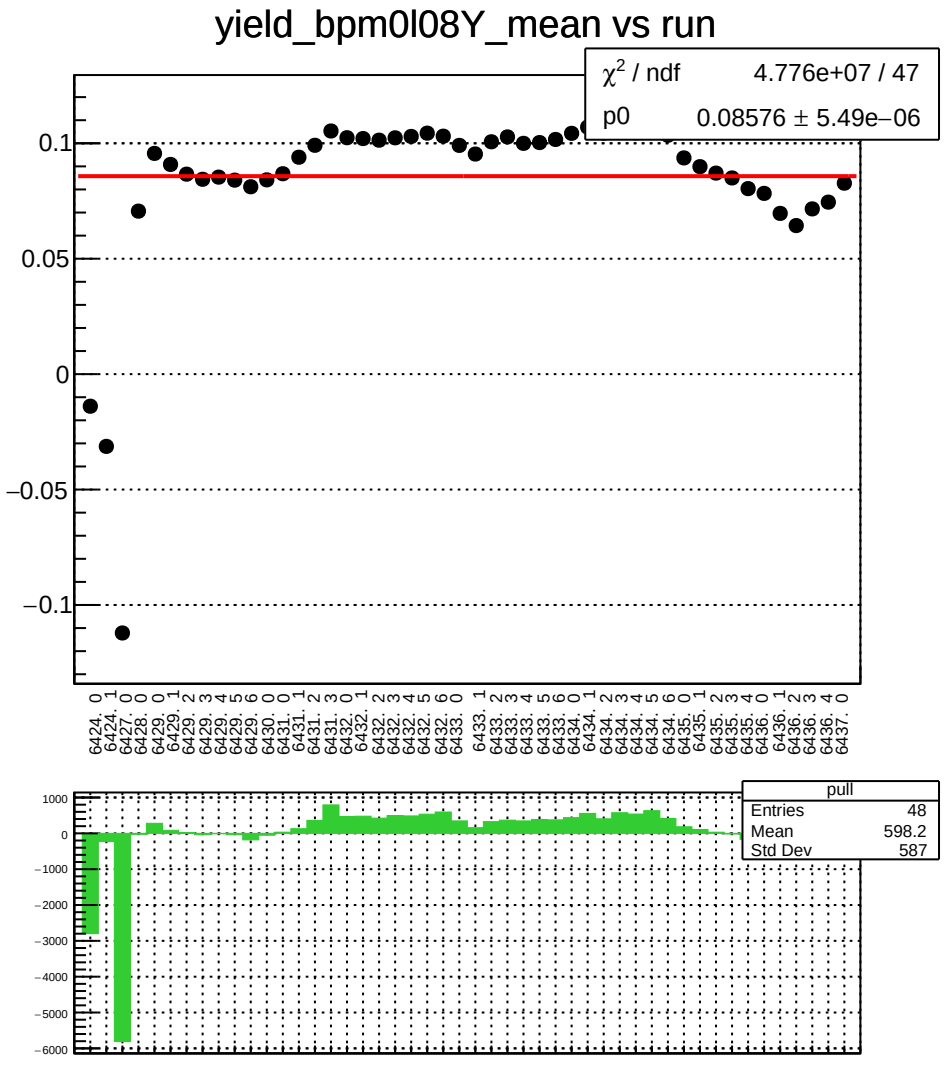
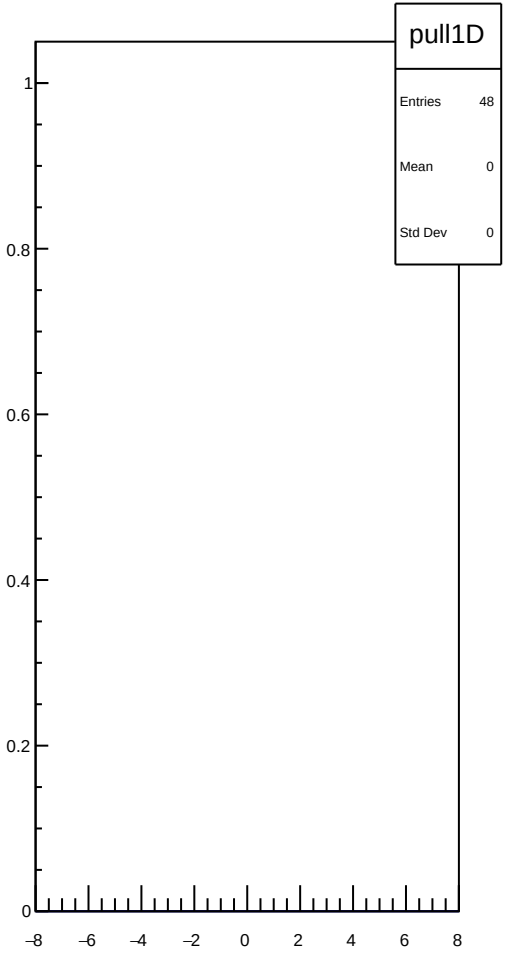
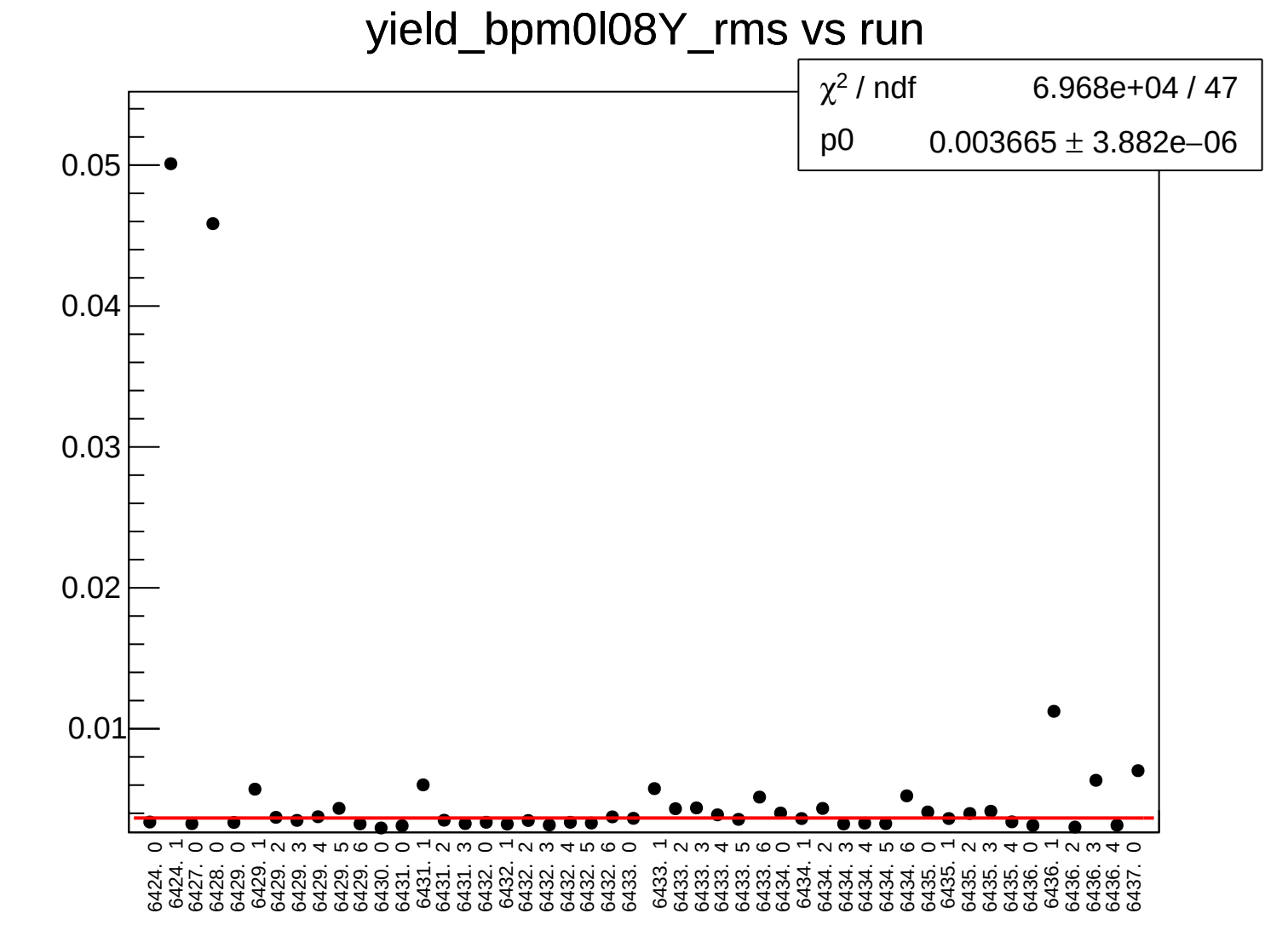
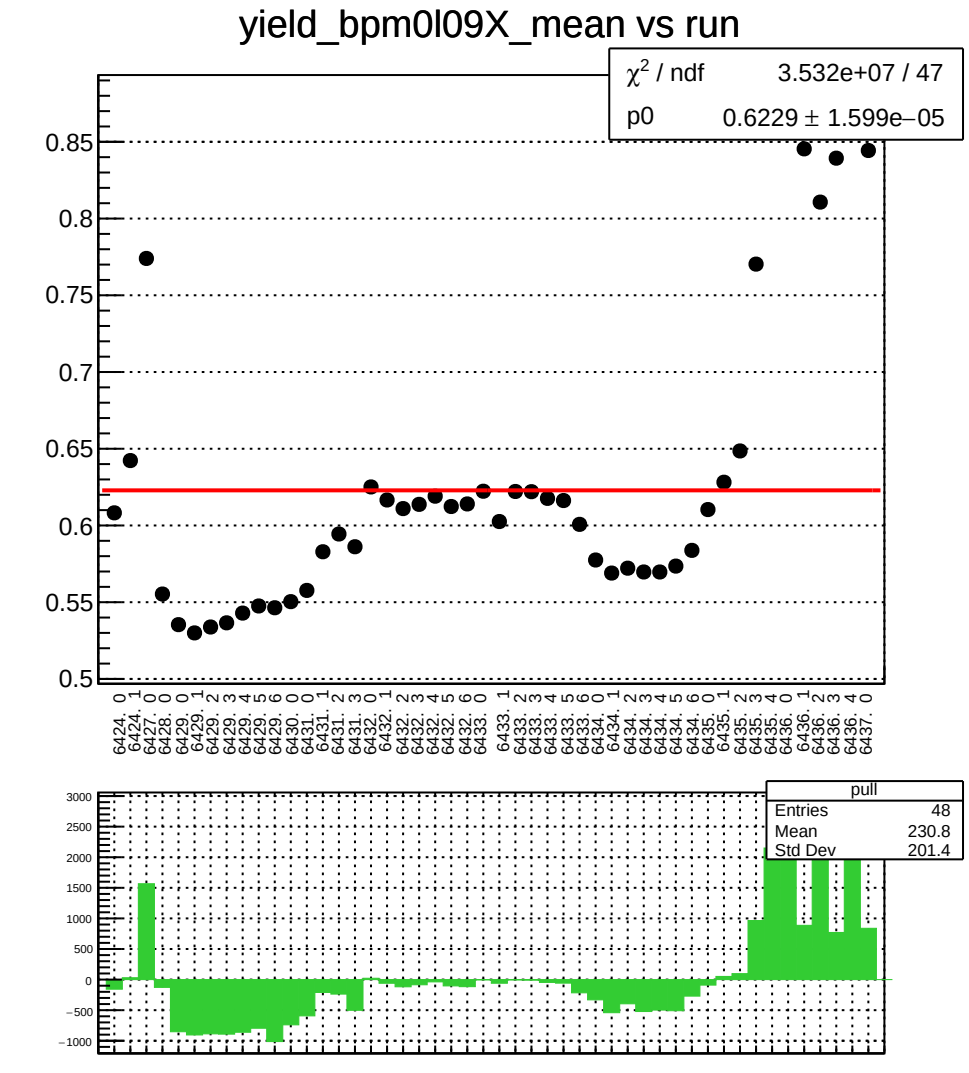
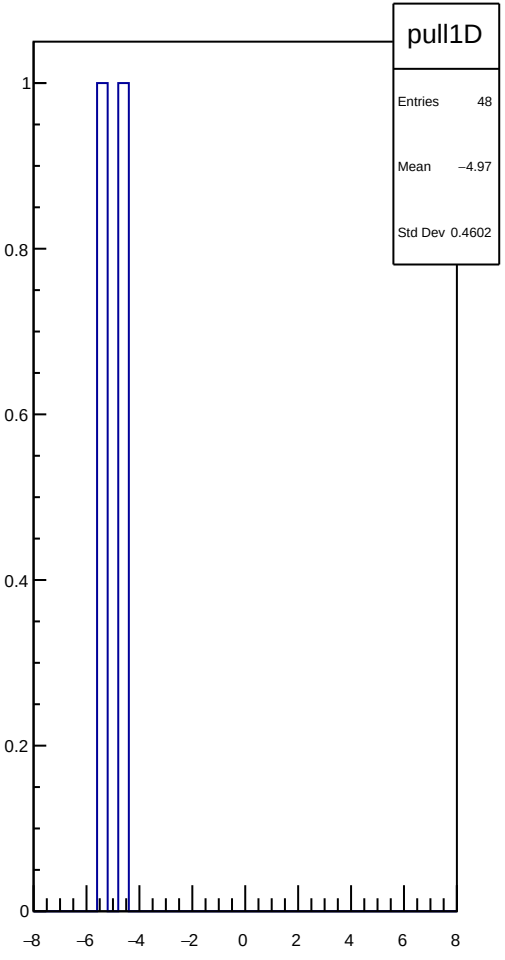
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

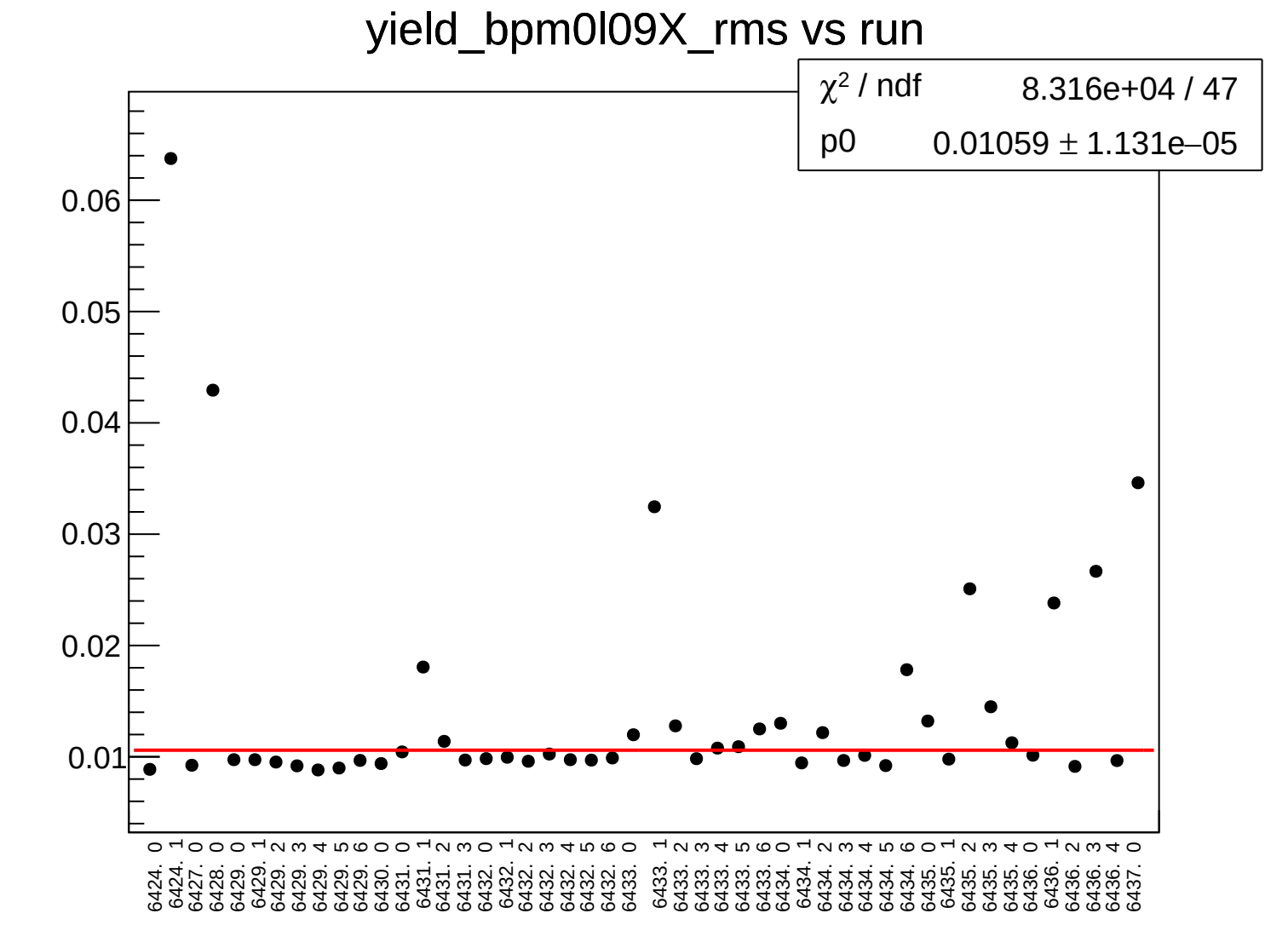

yield_bpm0l08Y_mean vs run
χ² / ndf 4.776e+07 / 47
p0 0.08576 ± 5.49e−06
0.1
0.05
0
−0.05
−0.1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
pull
Entries 48
Mean 598.2
Std Dev 587

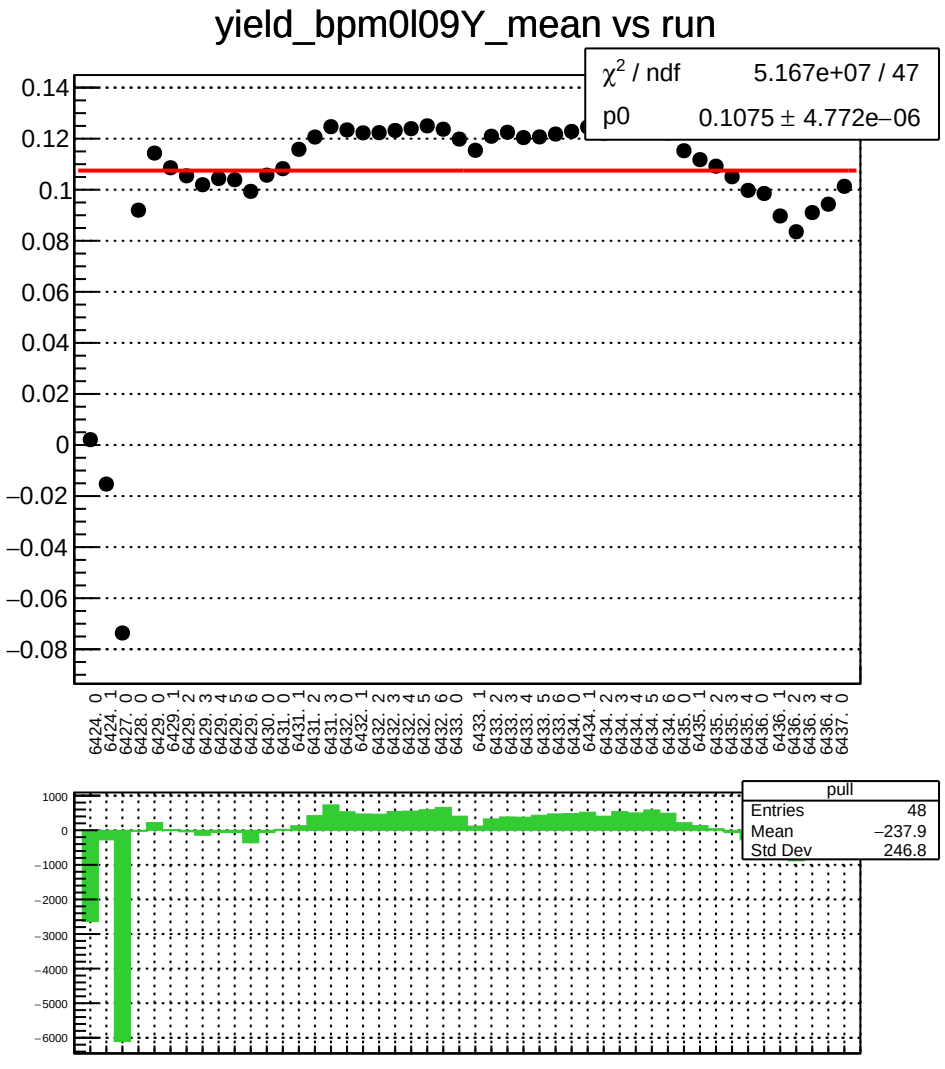

pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

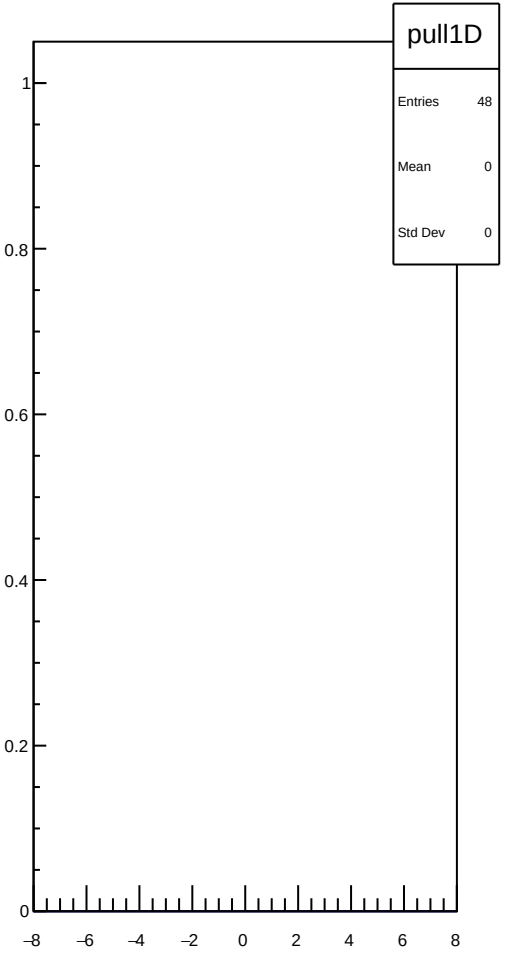

yield_bpm0l08Y_rms vs run
χ² / ndf 6.968e+04 / 47
p0 0.003665 ± 3.882e−06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

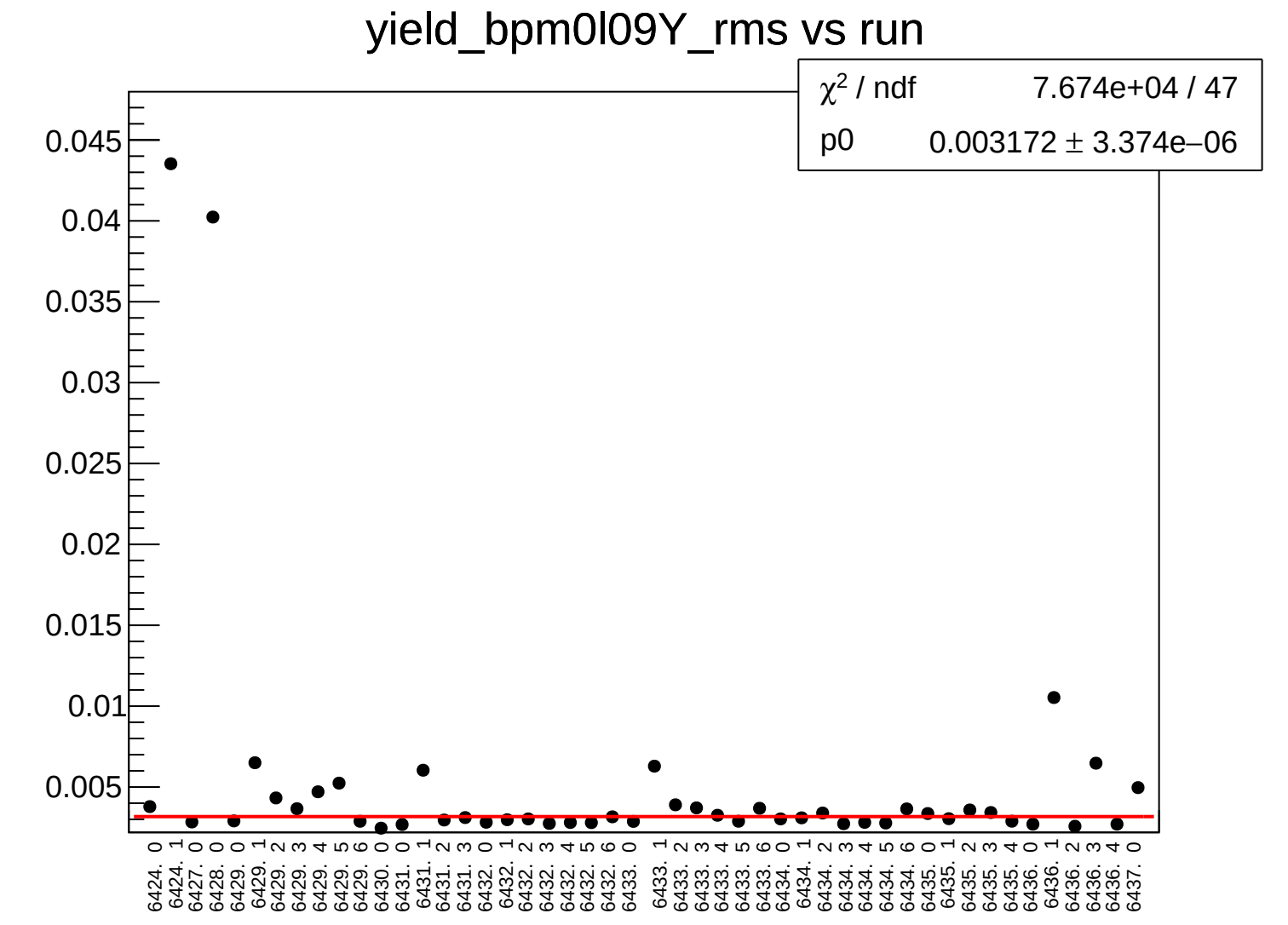

yield_bpm0l09X_mean vs run
χ² / ndf 3.532e+07 / 47
p0 0.6229 ± 1.599e−05
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 230.8
Std Dev 201.4
3000
2500
2000
1500
1000
500
0
−500
−1000

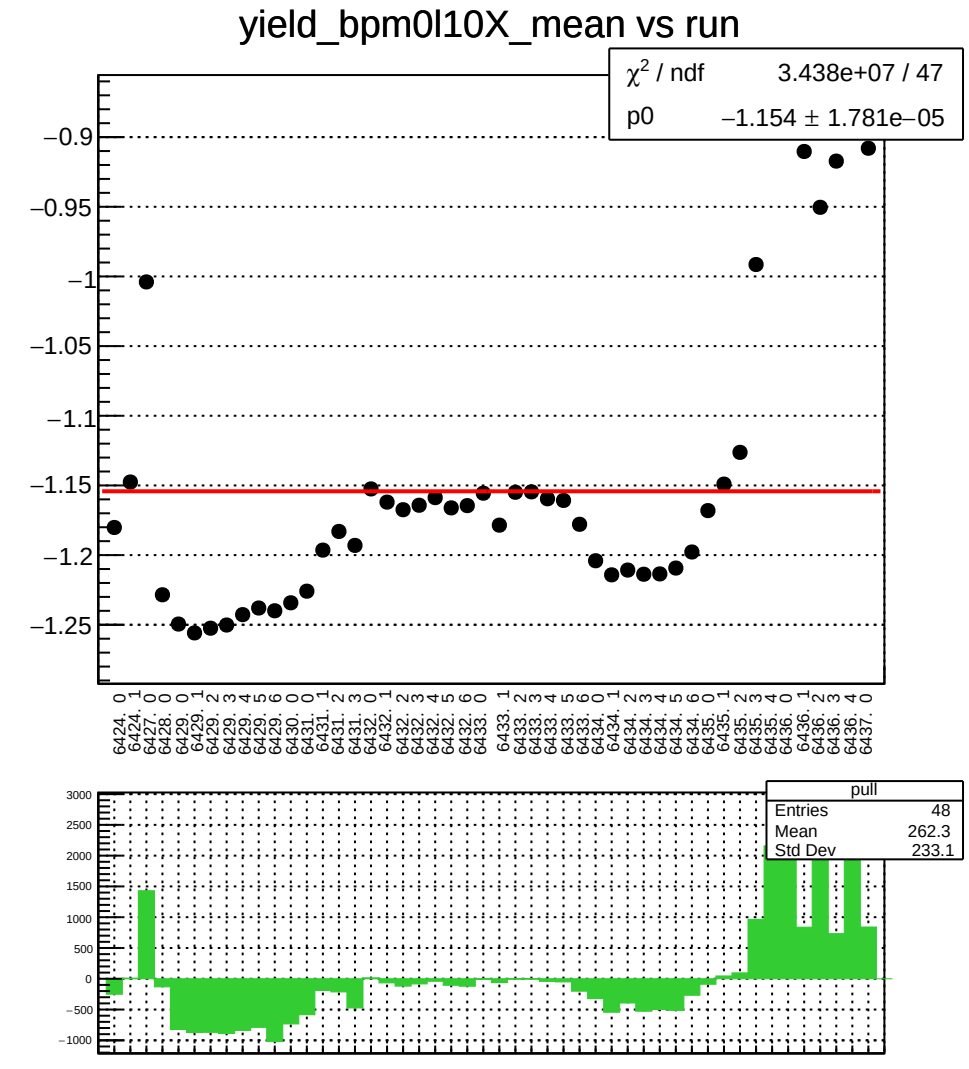

pull1D
Entries 48
Mean −4.97
Std Dev 0.4602
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

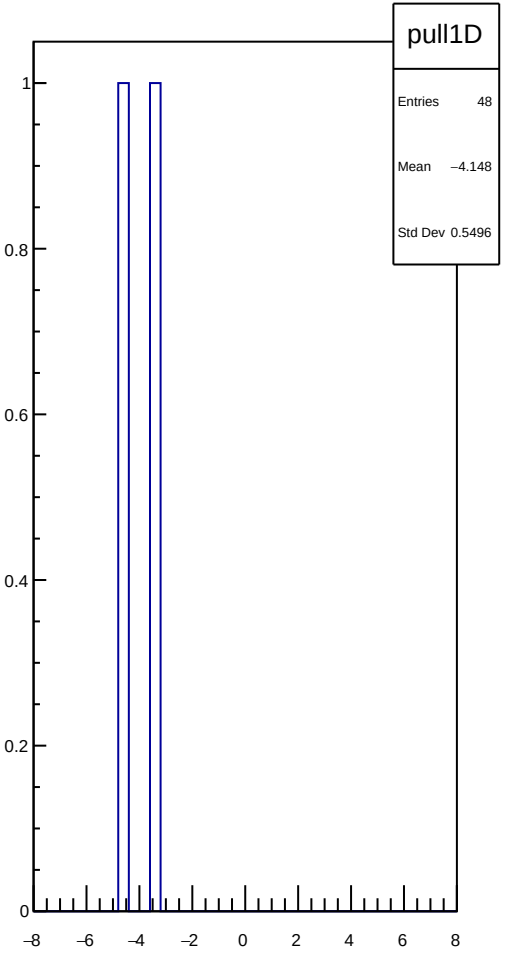

yield_bpm0l09X_rms vs run
χ² / ndf 8.316e+04 / 47
p0 0.01059 ± 1.131e–05
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

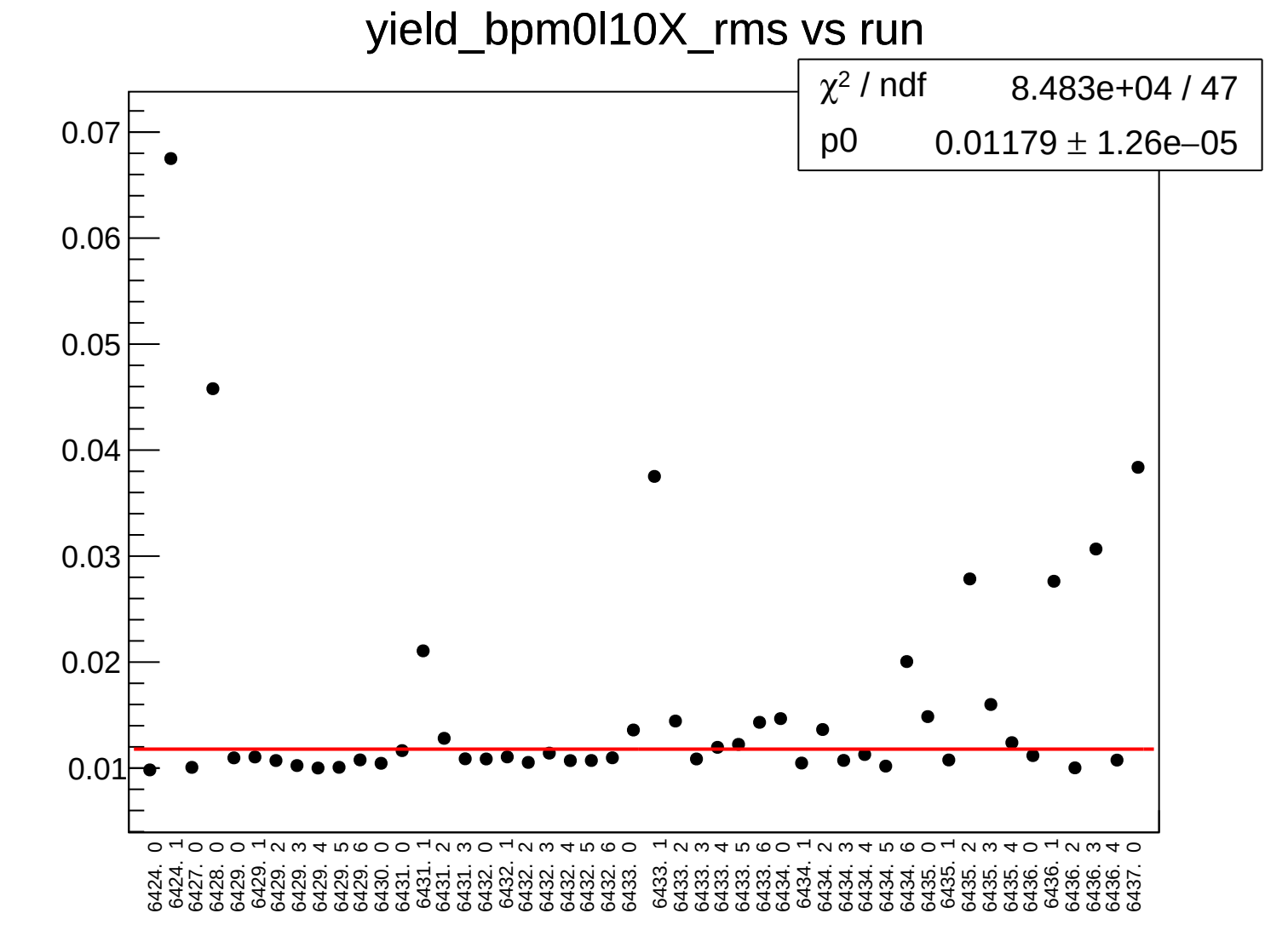

yield_bpm0l09Y_mean vs run
χ² / ndf 5.167e+07 / 47
p0 0.1075 ± 4.772e−06
pull
Entries 48
Mean −237.9
Std Dev 246.8

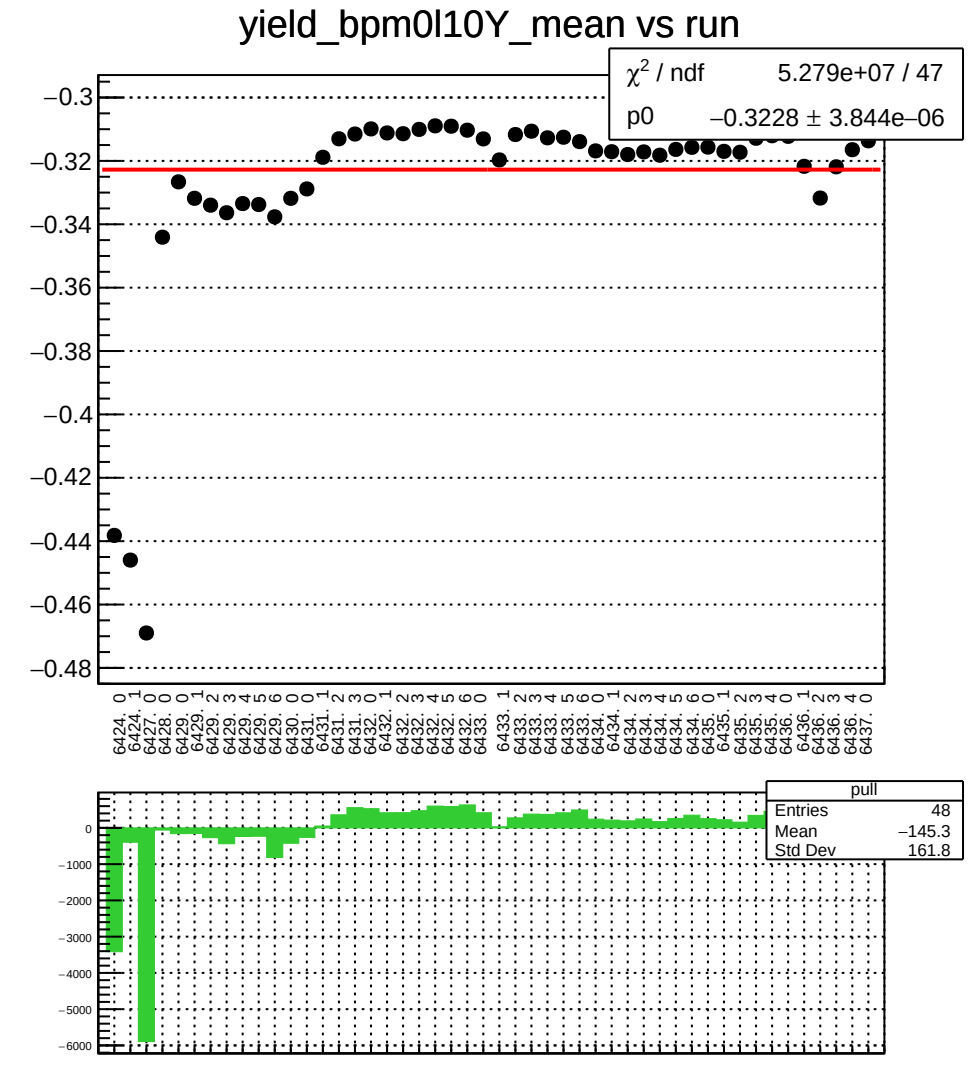

pull1D
Entries 48
Mean 0
Std Dev 0

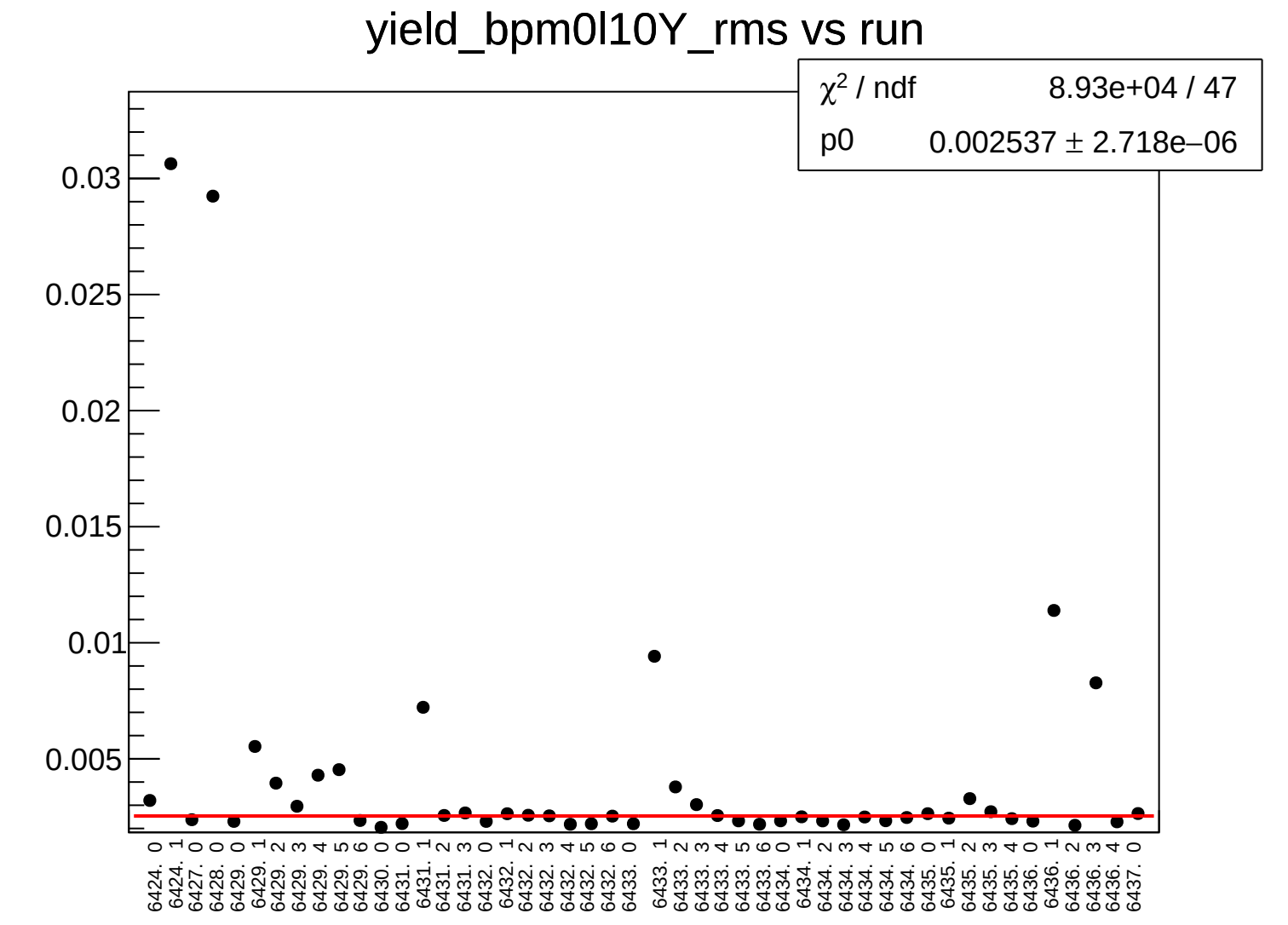

yield_bpm0l09Y_rms vs run
χ² / ndf 7.674e+04 / 47
p0 0.003172 ± 3.374e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

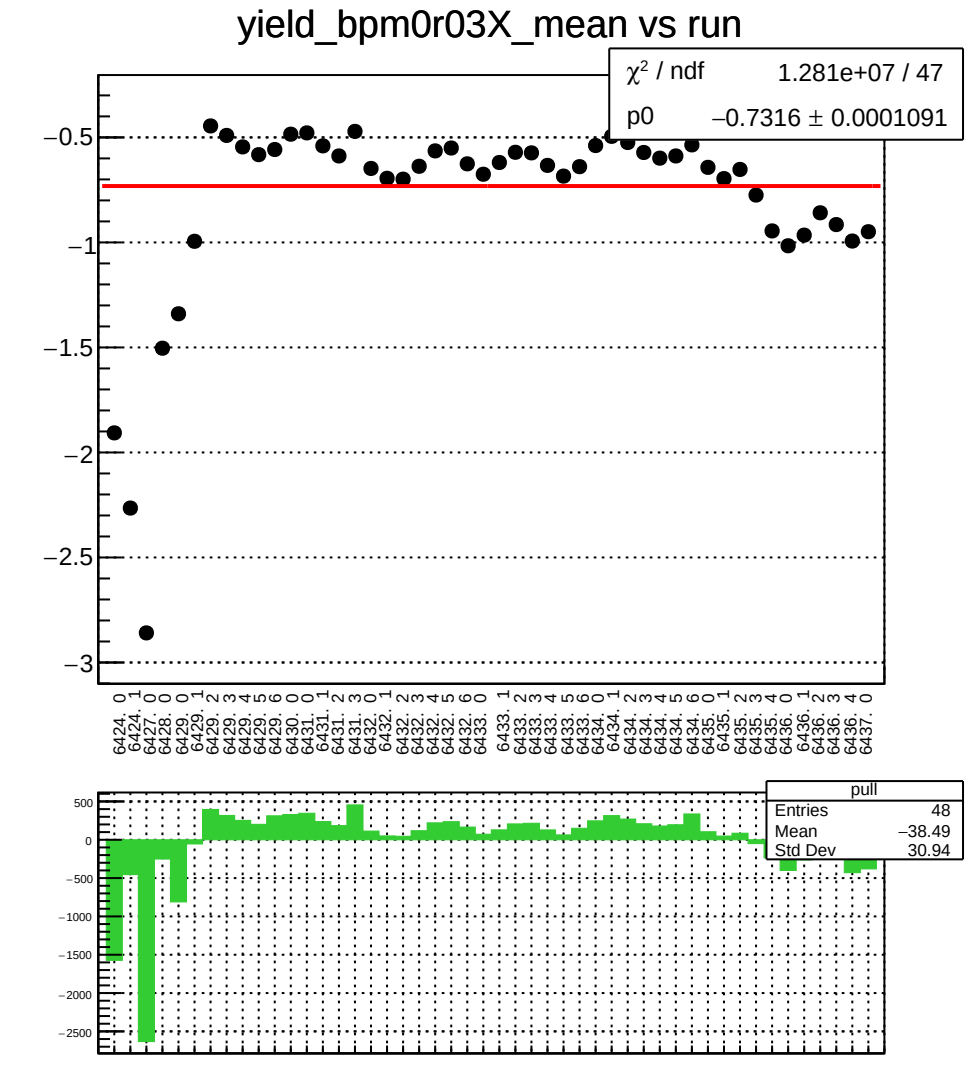

yield_bpm0l10X_mean vs run
χ² / ndf 3.438e+07 / 47
p0 −1.154 ± 1.781e−05
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
3000
2500
2000
1500
1000
500
0
−500
−1000
pull
Entries 48
Mean 262.3
Std Dev 233.1

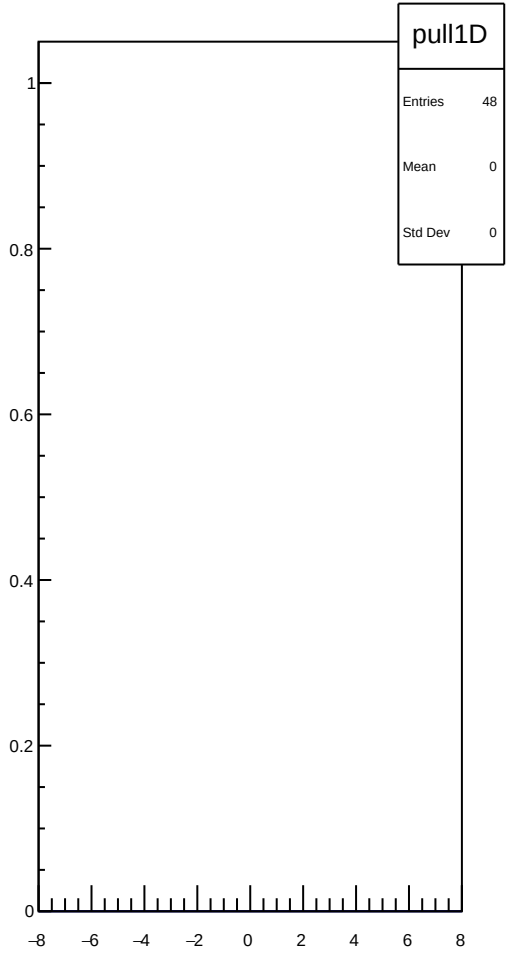

pull1D
Entries 48
Mean −4.148
Std Dev 0.5496
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

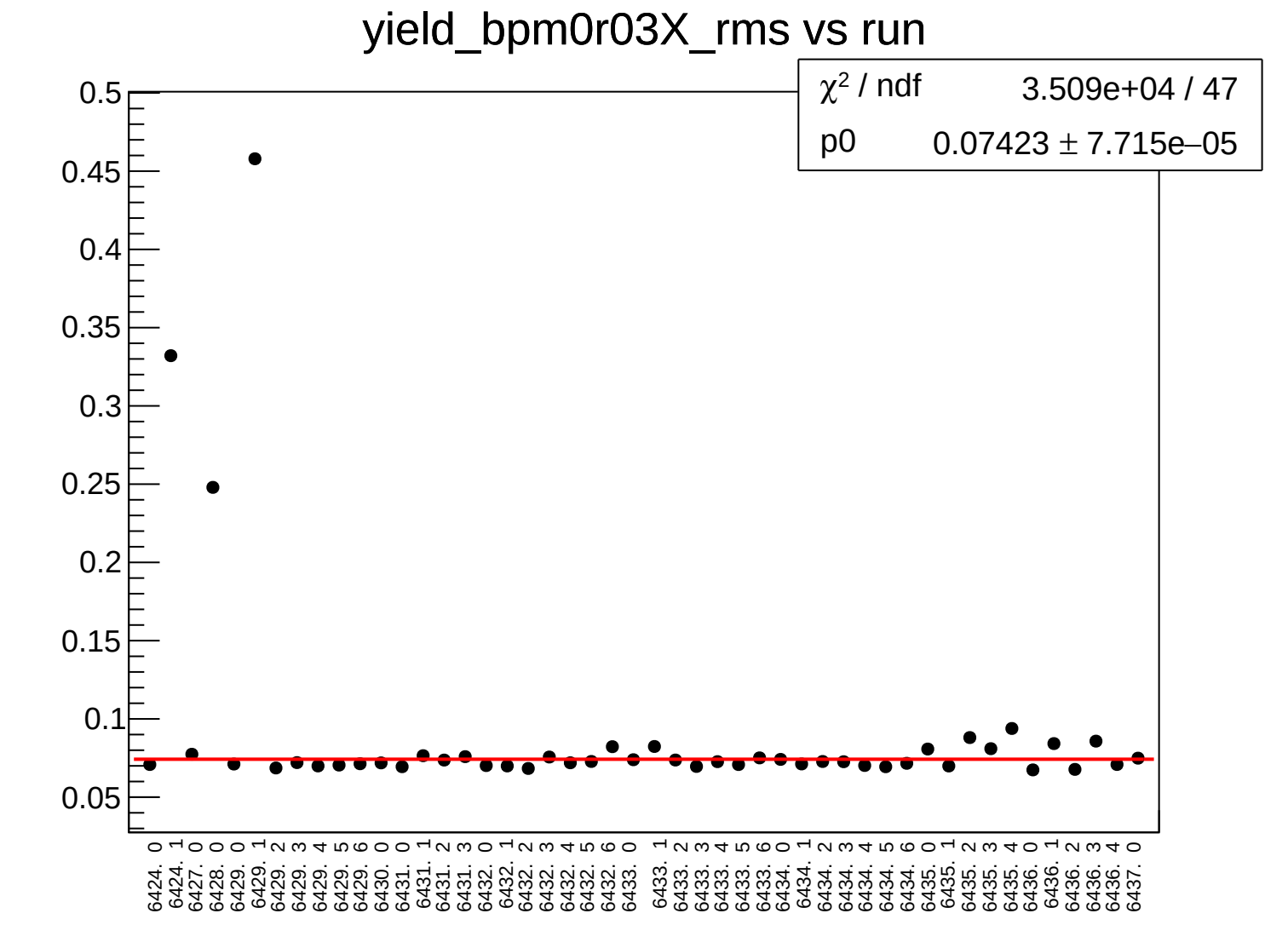

yield_bpm0l10X_rms vs run
χ² / ndf 8.483e+04 / 47
p0 0.01179 ± 1.26e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

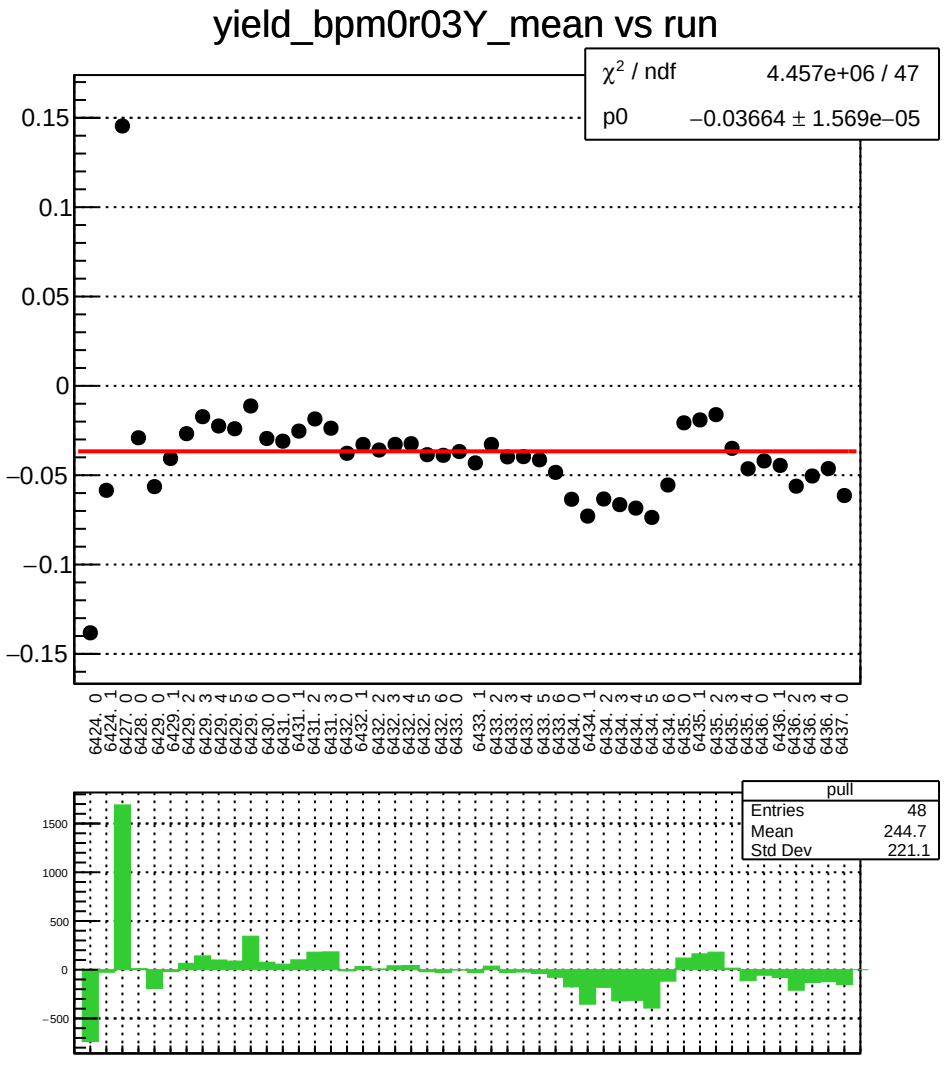

yield_bpm0l10Y_mean vs run
χ² / ndf 5.279e+07 / 47
p0 −0.3228 ± 3.844e−06
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −145.3
Std Dev 161.8
0
−1000
−2000
−3000
−4000
−5000
−6000
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

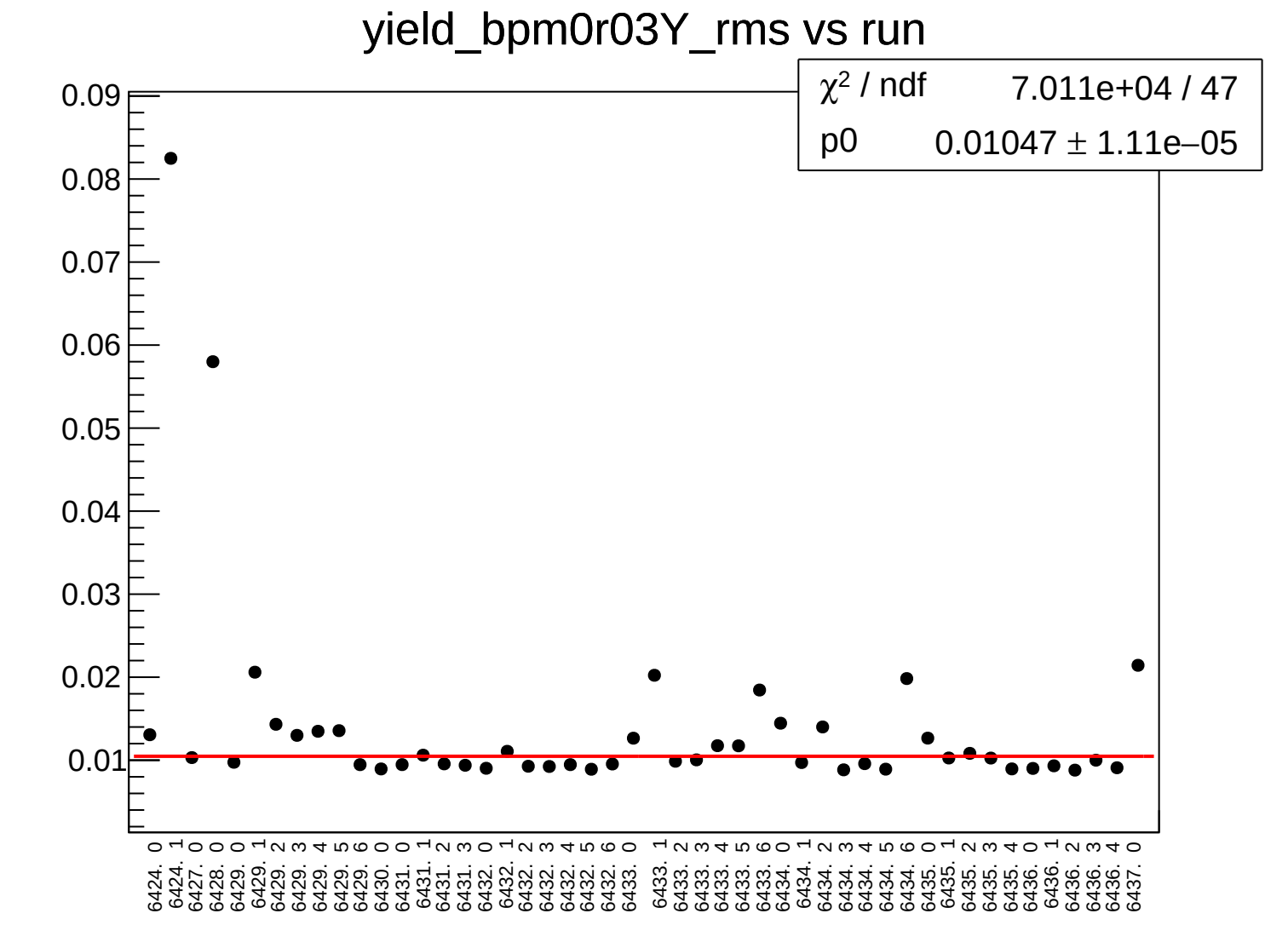

yield_bpm0l10Y_rms vs run
χ² / ndf 8.93e+04 / 47
p0 0.002537 ± 2.718e−06
0.03
0.025
0.02
0.015
0.01
0.005
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

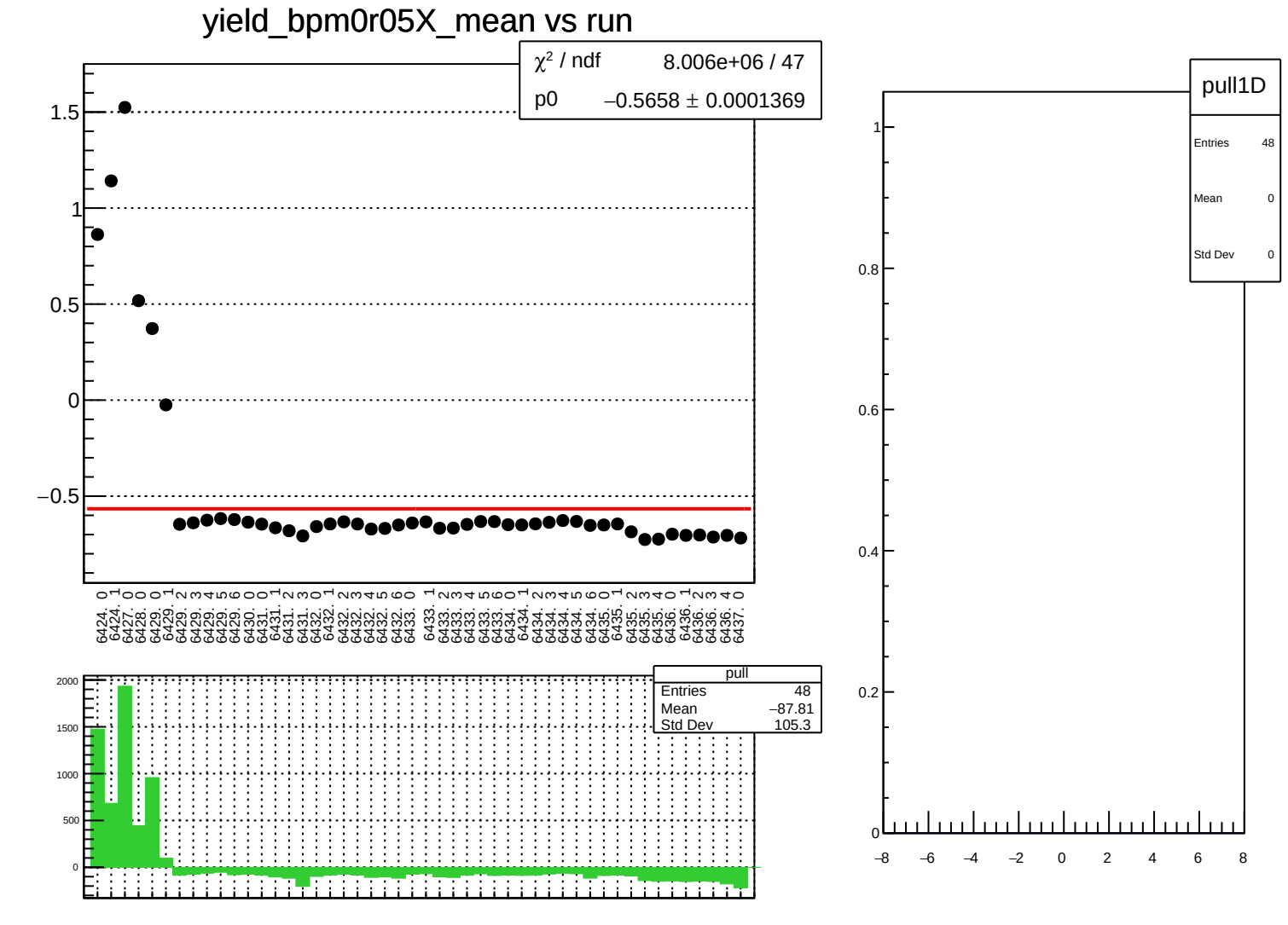

yield_bpm0r03X_mean vs run
χ² / ndf 1.281e+07 / 47
p0 −0.7316 ± 0.0001091
pull
Entries 48
Mean −38.49
Std Dev 30.94

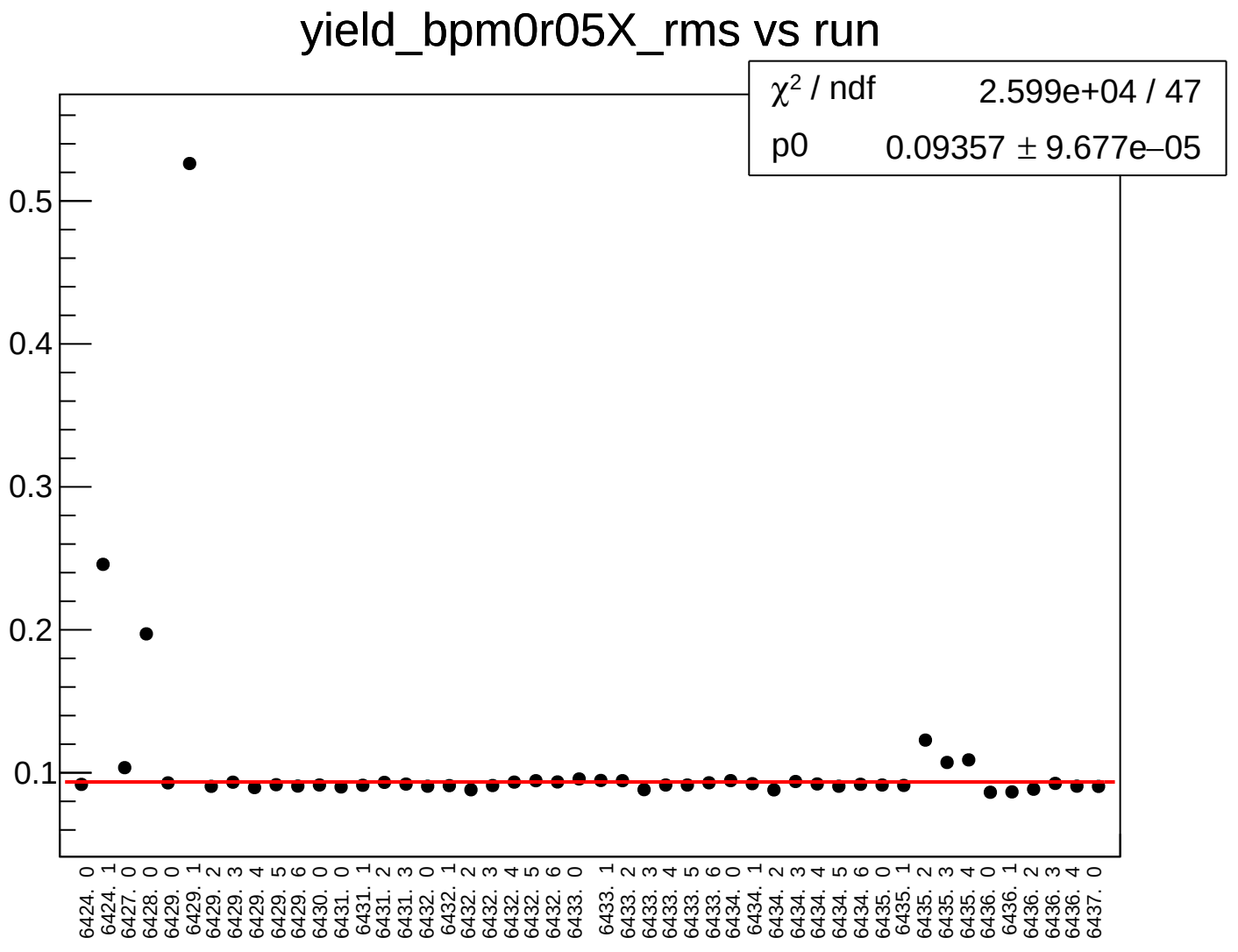

pull1D
Entries 48
Mean 0
Std Dev 0

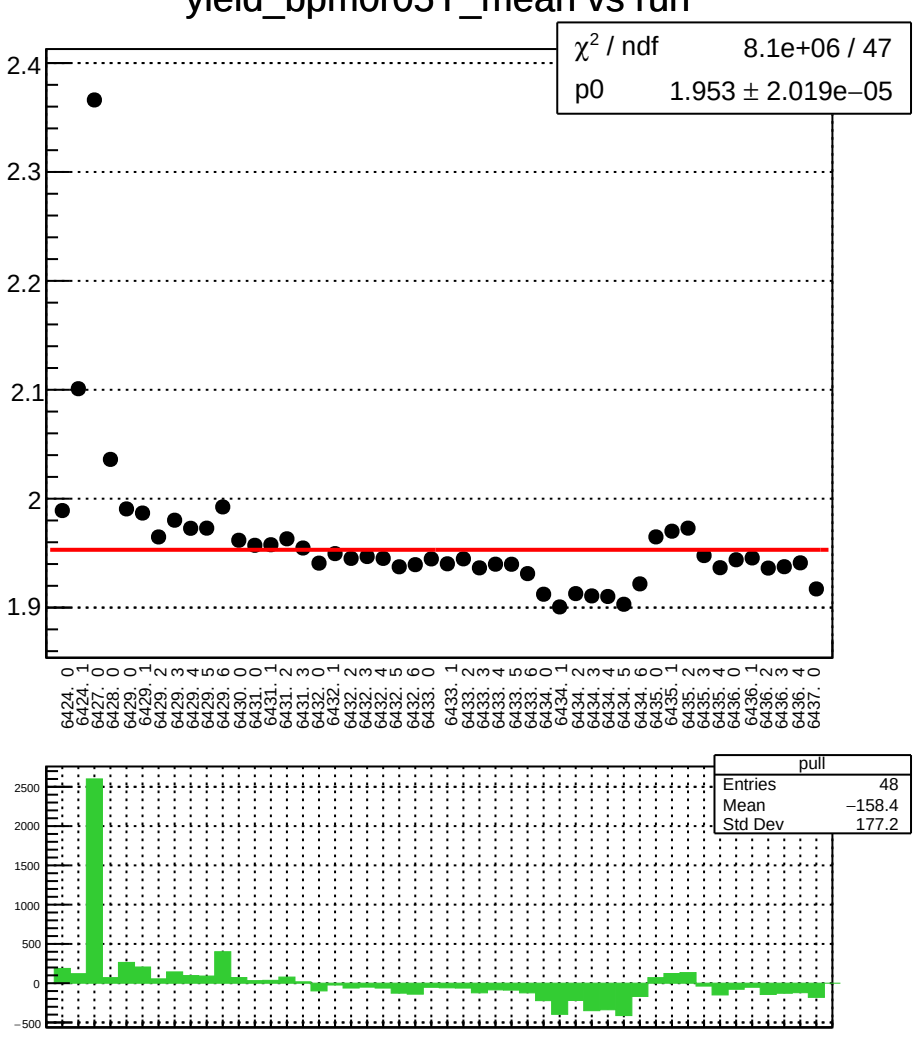

yield_bpm0r03X_rms vs run
χ² / ndf 3.509e+04 / 47
p0 0.07423 ± 7.715e–05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

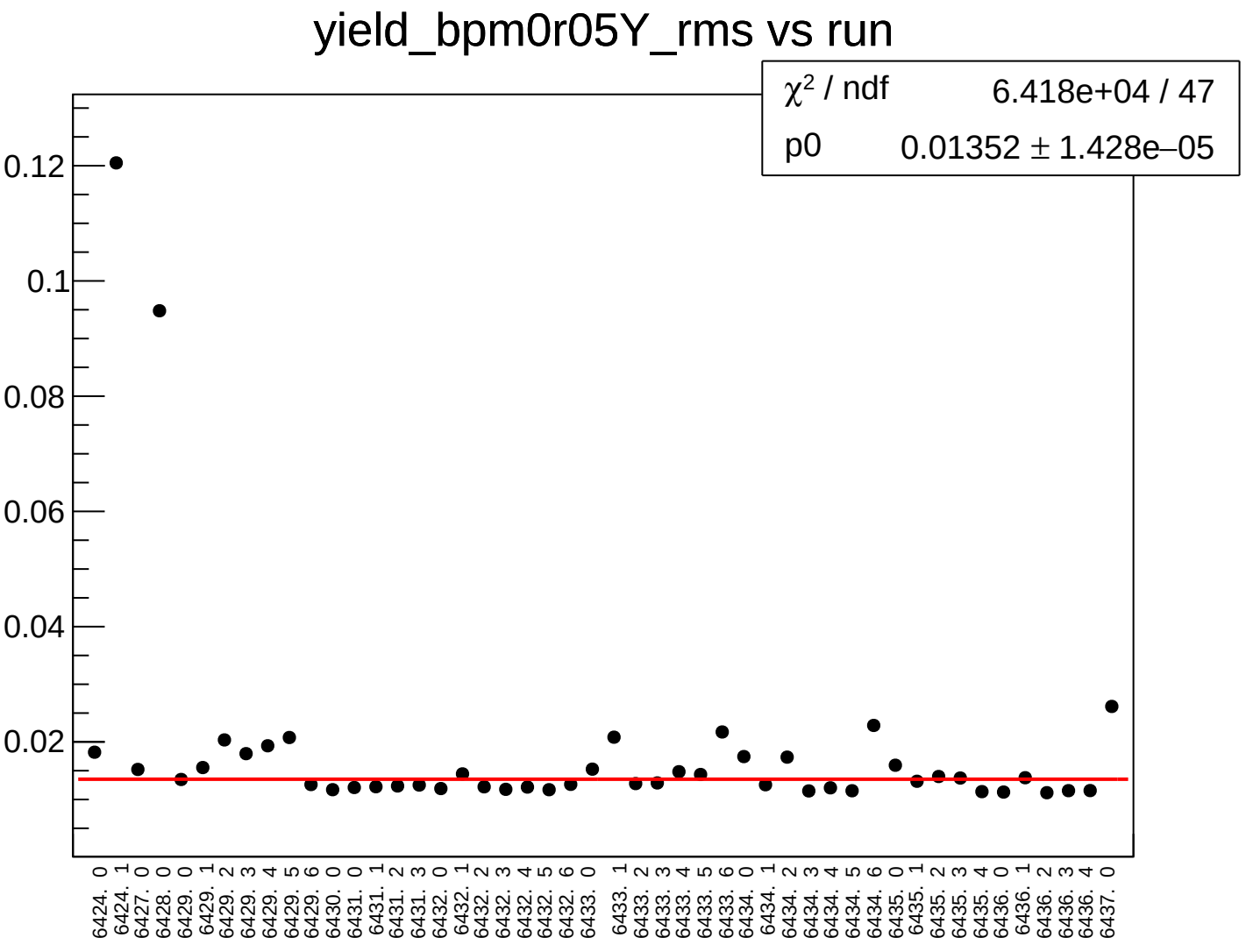

yield_bpm0r03Y_mean vs run
χ² / ndf 4.457e+06 / 47
p0 −0.03664 ± 1.569e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 244.7
Std Dev 221.1
1500
1000
500
0
−500
pull1D
Entries 48
Mean 3.31
Std Dev 4.19
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

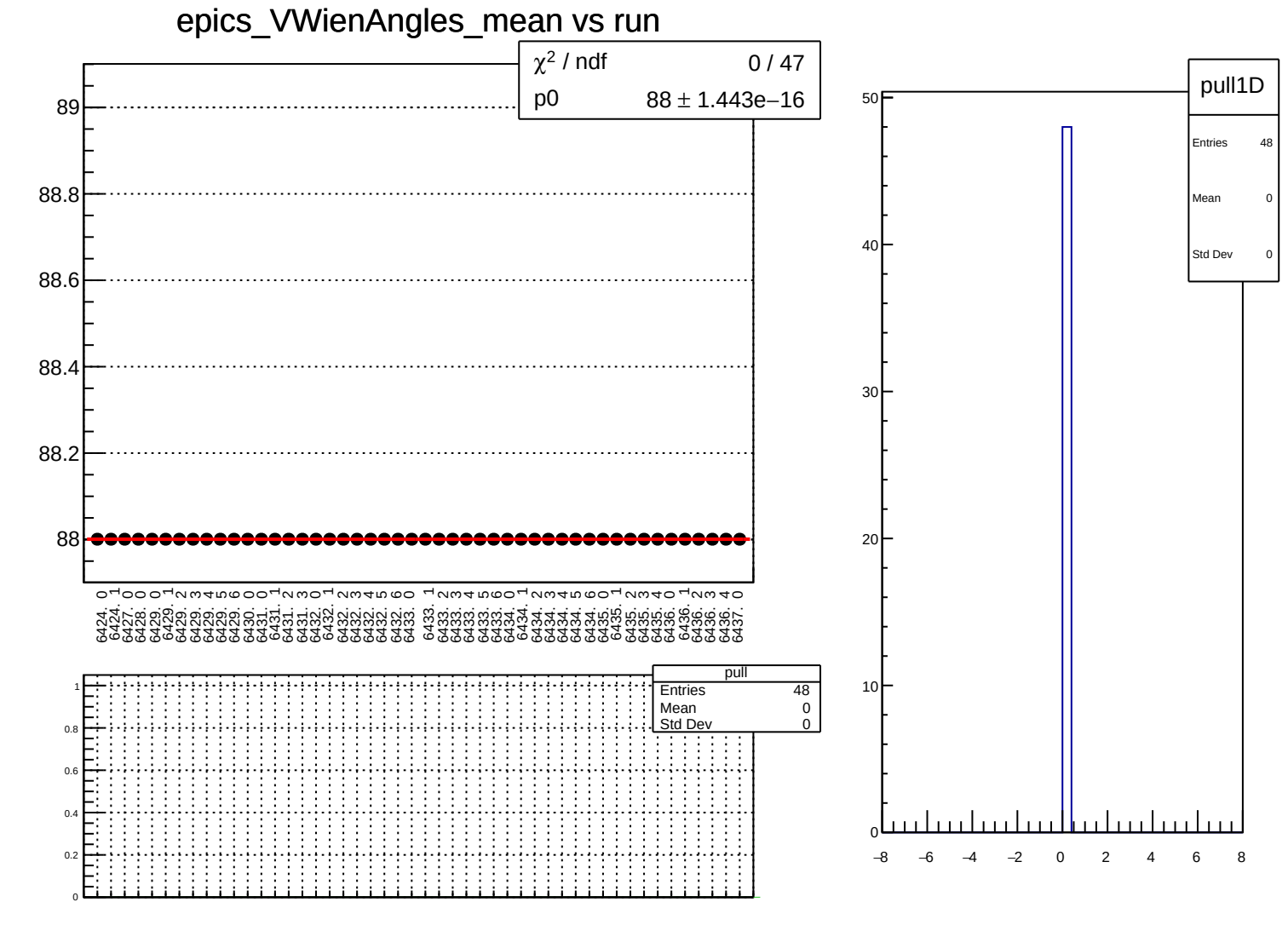

yield_bpm0r03Y_rms vs run
χ² / ndf 7.011e+04 / 47
p0 0.01047 ± 1.11e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

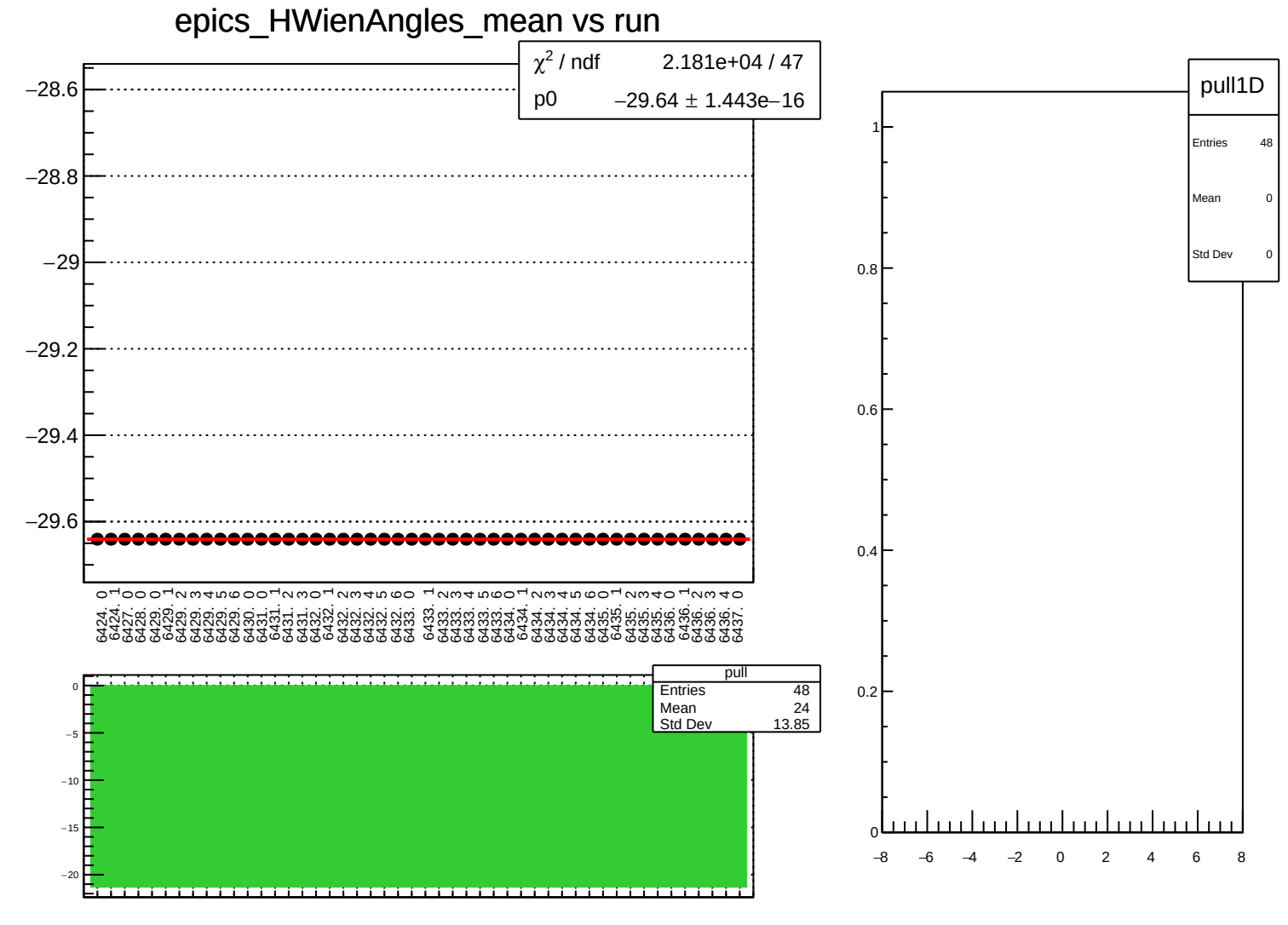

yield_bpm0r05X_mean vs run
χ² / ndf 8.006e+06 / 47
p0 −0.5658 ± 0.0001369
1.5
1
0.5
0
−0.5
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −87.81
Std Dev 105.3
2000
1500
1000
500
0
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

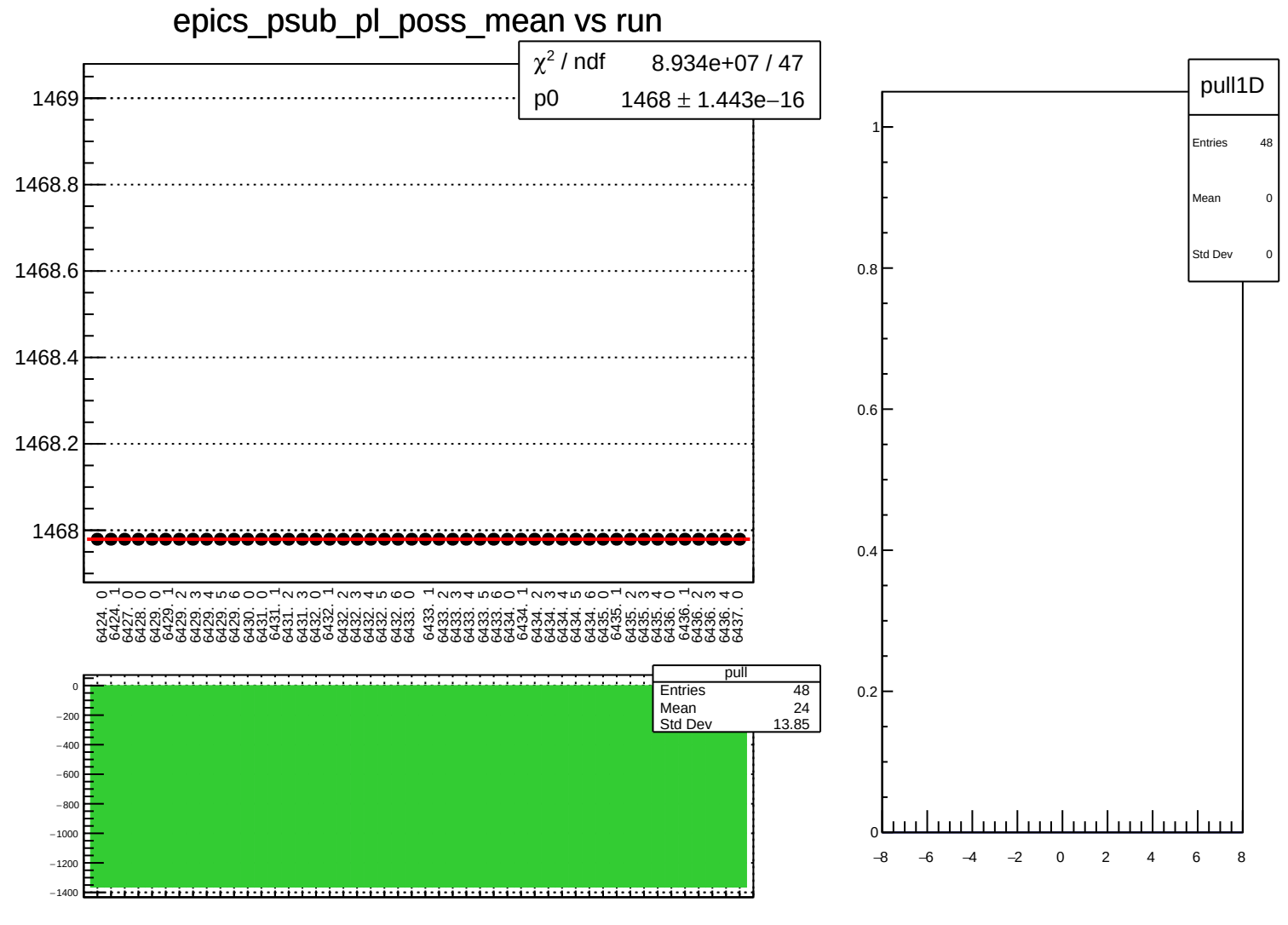

yield_bpm0r05X_rms vs run
χ² / ndf 2.599e+04 / 47
p0 0.09357 ± 9.677e–05
0.5
0.4
0.3
0.2
0.1
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

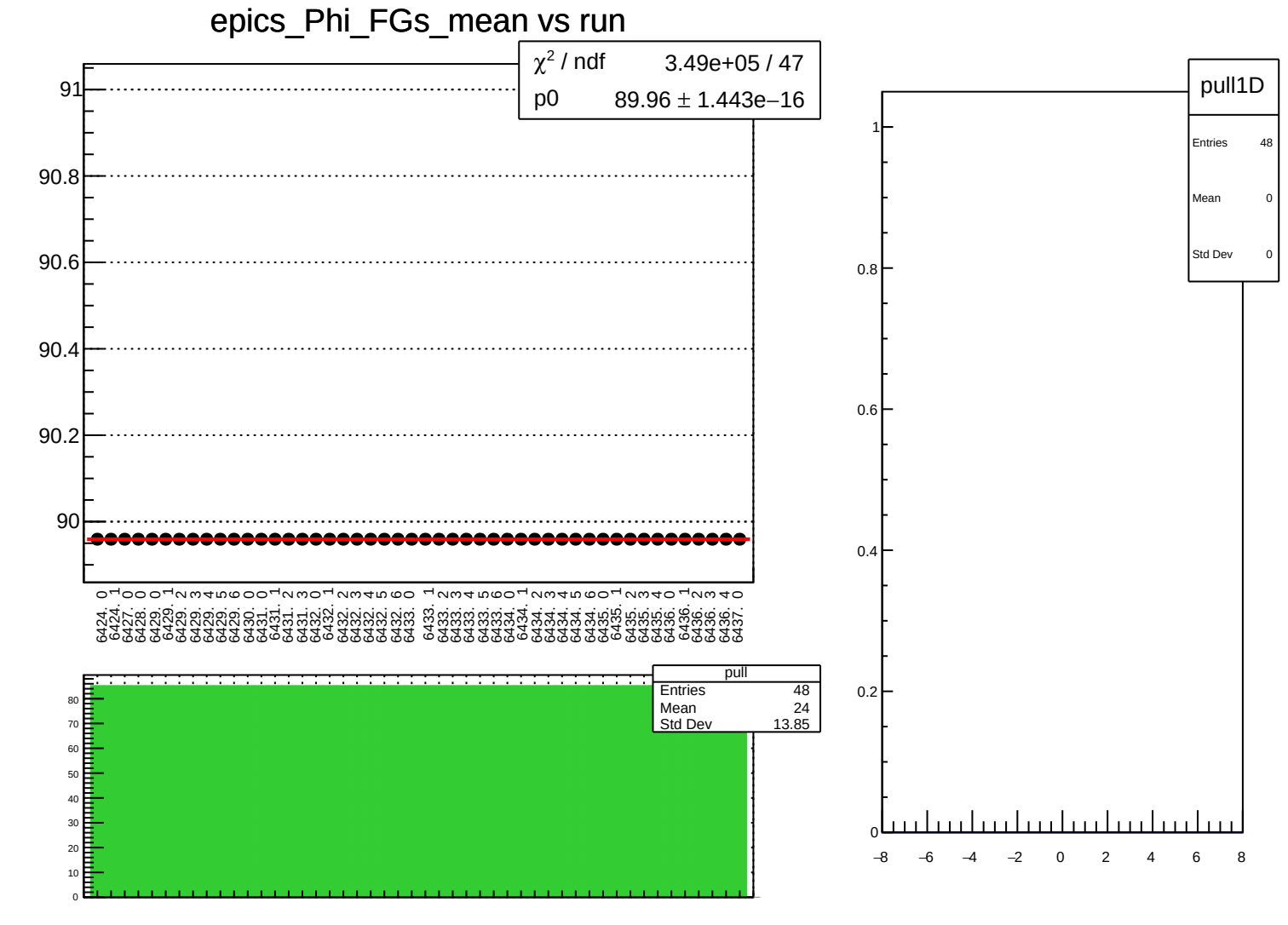

yield_bpm0r05Y_mean vs run
χ² / ndf 8.1e+06 / 47
p0 1.953 ± 2.019e−05
2.4
2.3
2.2
2.1
2
1.9
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean −158.4
Std Dev 177.2
2500
2000
1500
1000
500
0
−500
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

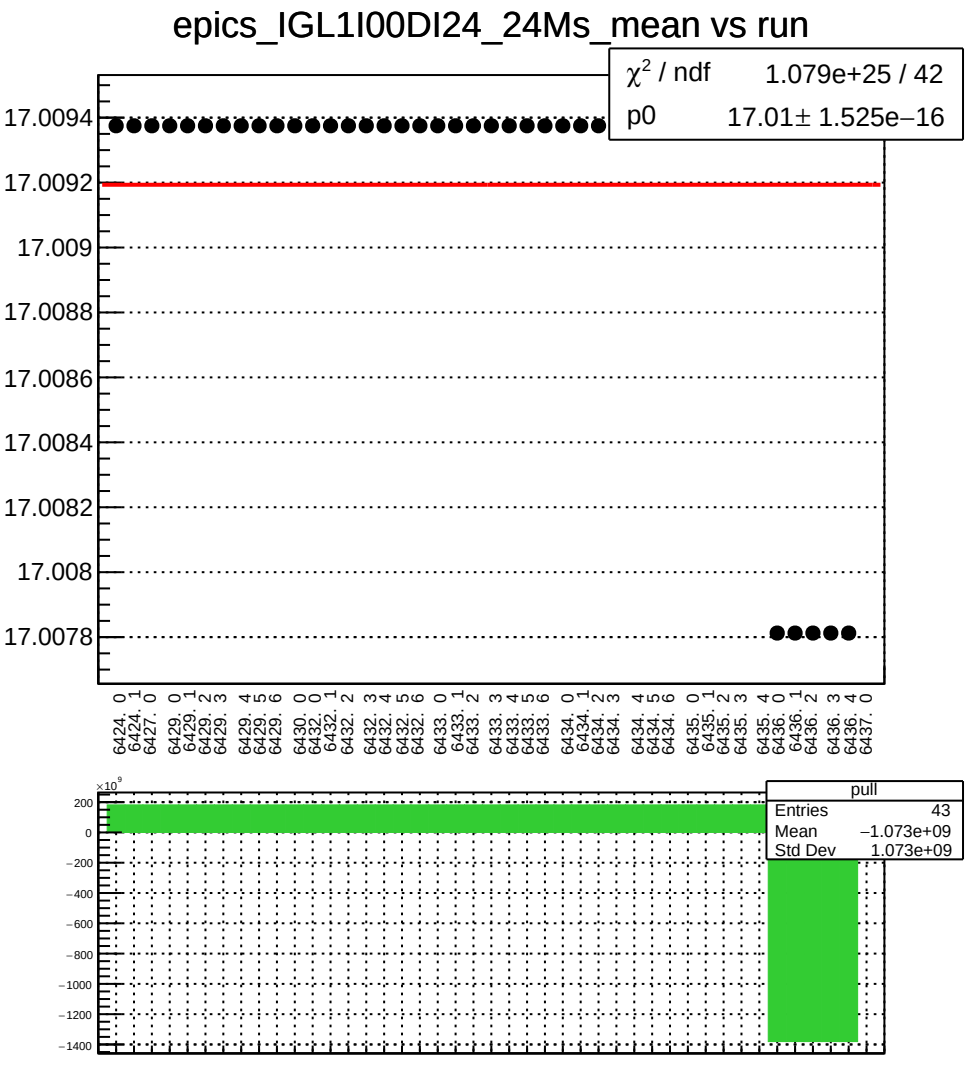

yield_bpm0r05Y_rms vs run
χ² / ndf 6.418e+04 / 47
p0 0.01352 ± 1.428e–05
0.12
0.1
0.08
0.06
0.04
0.02
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0

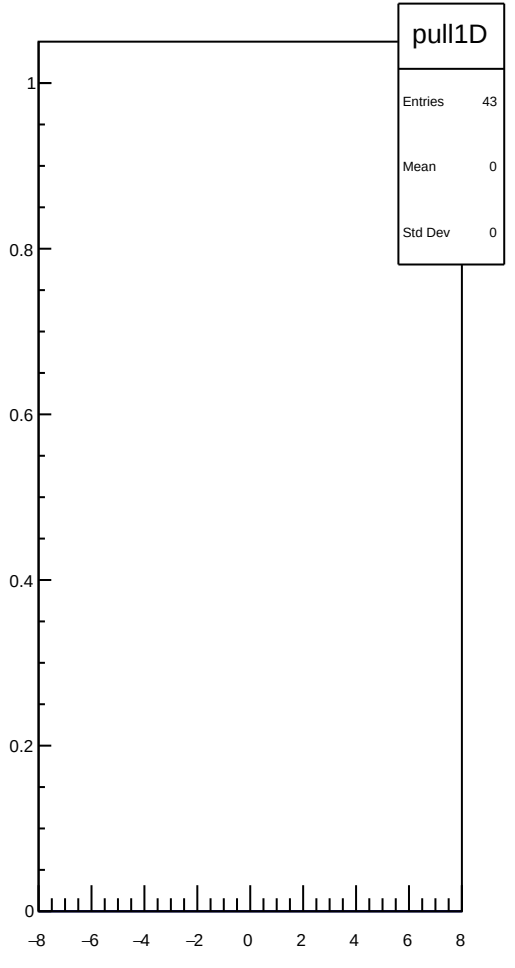

epics_VWienAngles_mean vs run
χ² / ndf 0 / 47
p0 88 ± 1.443e−16
89
88.8
88.6
88.4
88.2
88
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 48
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

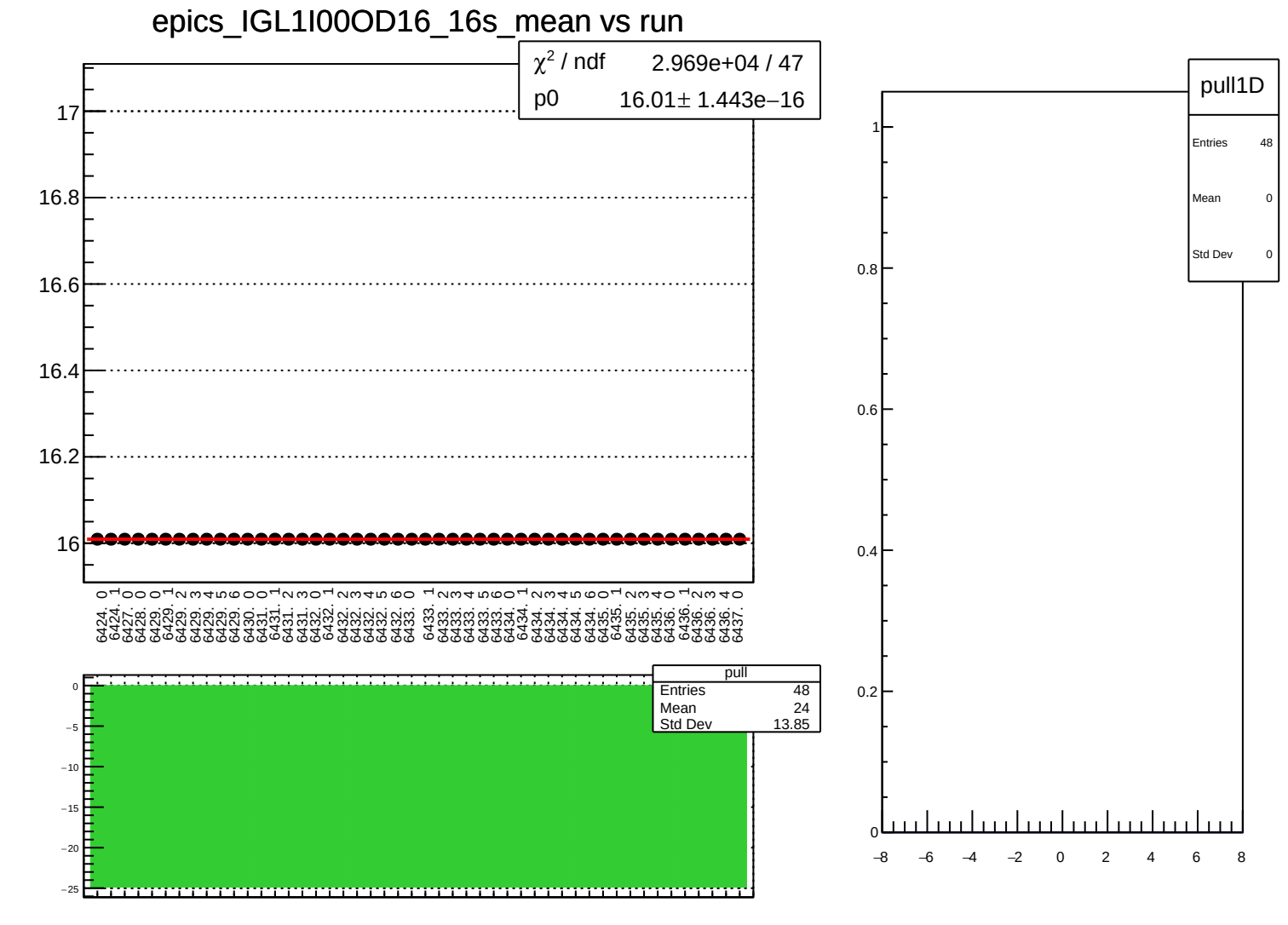

epics_HWienAngles_mean vs run
χ² / ndf 2.181e+04 / 47
p0 −29.64 ± 1.443e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24
Std Dev 13.85
0
−5
−10
−15
−20
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

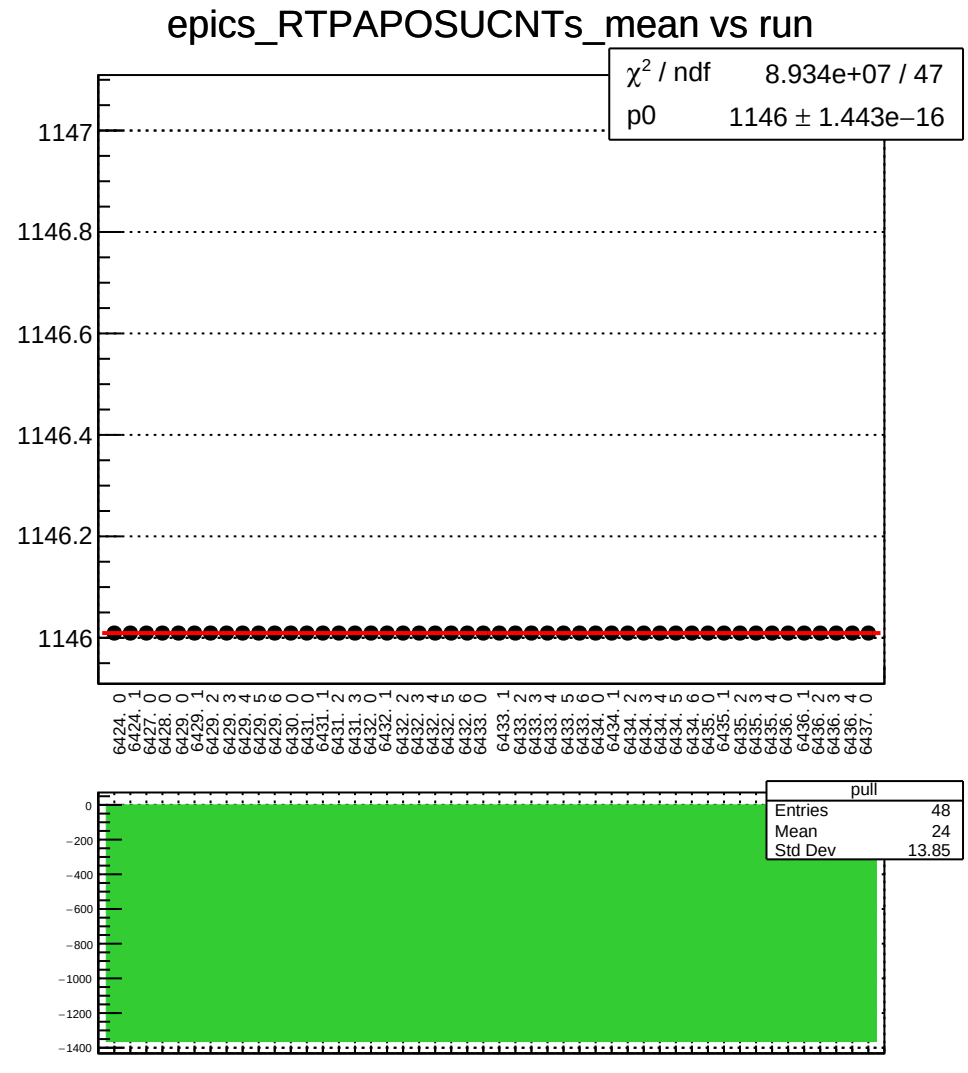

epics_psub_pl_poss_mean vs run
χ² / ndf 8.934e+07 / 47
p0 1468 ± 1.443e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24
Std Dev 13.85
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

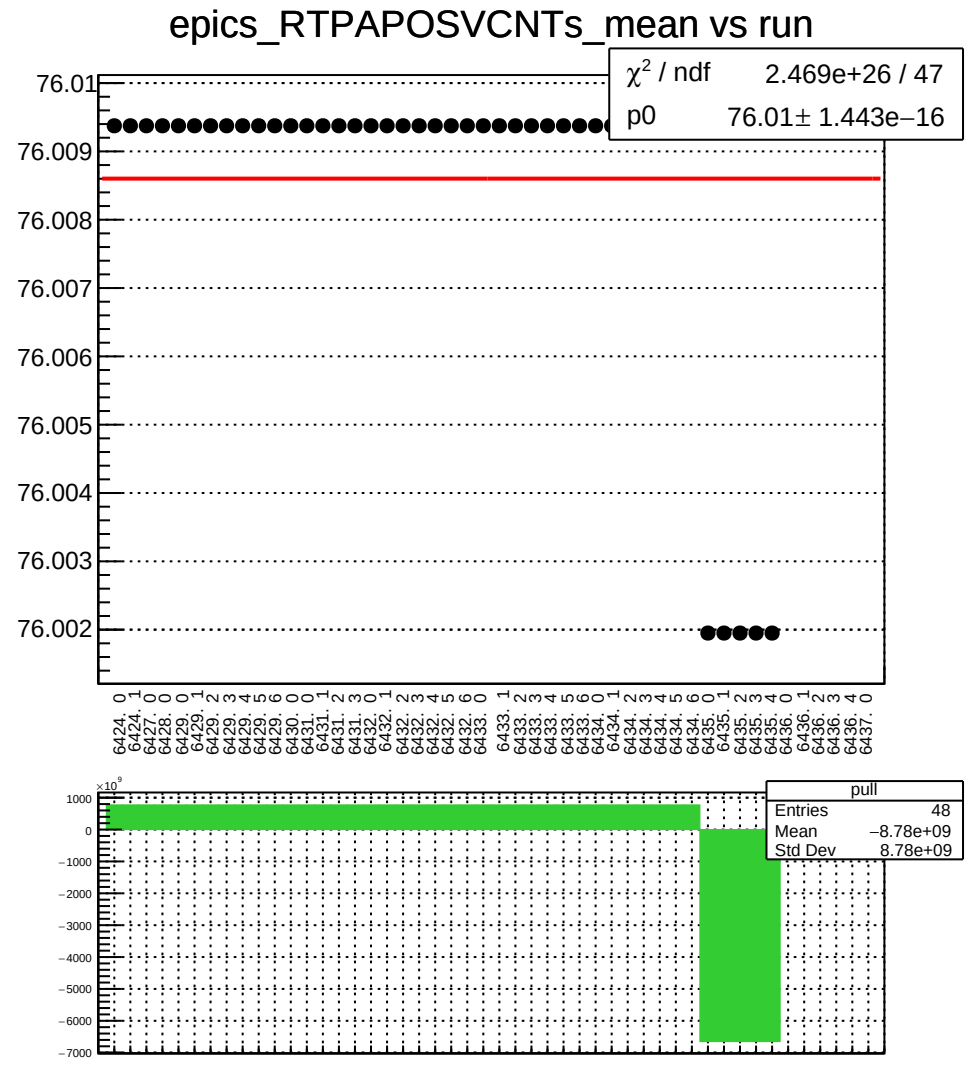

epics_Phi_FGs_mean vs run
χ² / ndf 3.49e+05 / 47
p0 89.96 ± 1.443e−16
91
90.8
90.6
90.4
90.2
90
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24
Std Dev 13.85
80
70
60
50
40
30
20
10
0
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

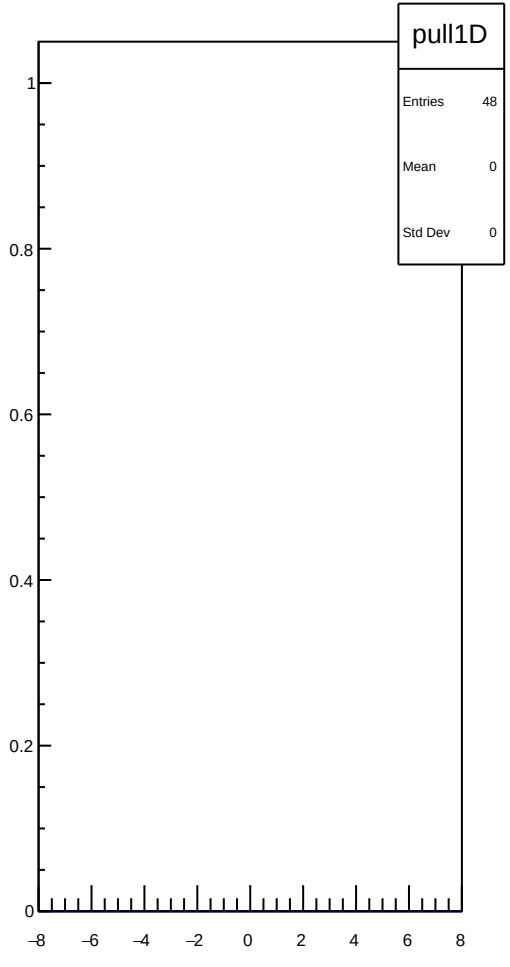

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.079e+25 / 42
p0 17.01± 1.525e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
6424. 0
6424. 1
6427. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 43
Mean −1.073e+09
Std Dev 1.073e+09


pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 2.969e+04 / 47
p0 16.01± 1.443e−16
17
16.8
16.6
16.4
16.2
16
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24
Std Dev 13.85
0
−5
−10
−15
−20
−25
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 8.934e+07 / 47
p0 1146 ± 1.443e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
pull
Entries 48
Mean 24
Std Dev 13.85
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 2.469e+26 / 47
p0 76.01± 1.443e−16
76.01
76.009
76.008
76.007
76.006
76.005
76.004
76.003
76.002
6424. 0
6424. 1
6427. 0
6428. 0
6429. 0
6429. 1
6429. 2
6429. 3
6429. 4
6429. 5
6429. 6
6430. 0
6431. 0
6431. 1
6431. 2
6431. 3
6432. 0
6432. 1
6432. 2
6432. 3
6432. 4
6432. 5
6432. 6
6433. 0
6433. 1
6433. 2
6433. 3
6433. 4
6433. 5
6433. 6
6434. 0
6434. 1
6434. 2
6434. 3
6434. 4
6434. 5
6434. 6
6435. 0
6435. 1
6435. 2
6435. 3
6435. 4
6436. 0
6436. 1
6436. 2
6436. 3
6436. 4
6437. 0
×10⁹
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
pull
Entries 48
Mean −8.78e+09
Std Dev 8.78e+09


pull1D
Entries 48
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8